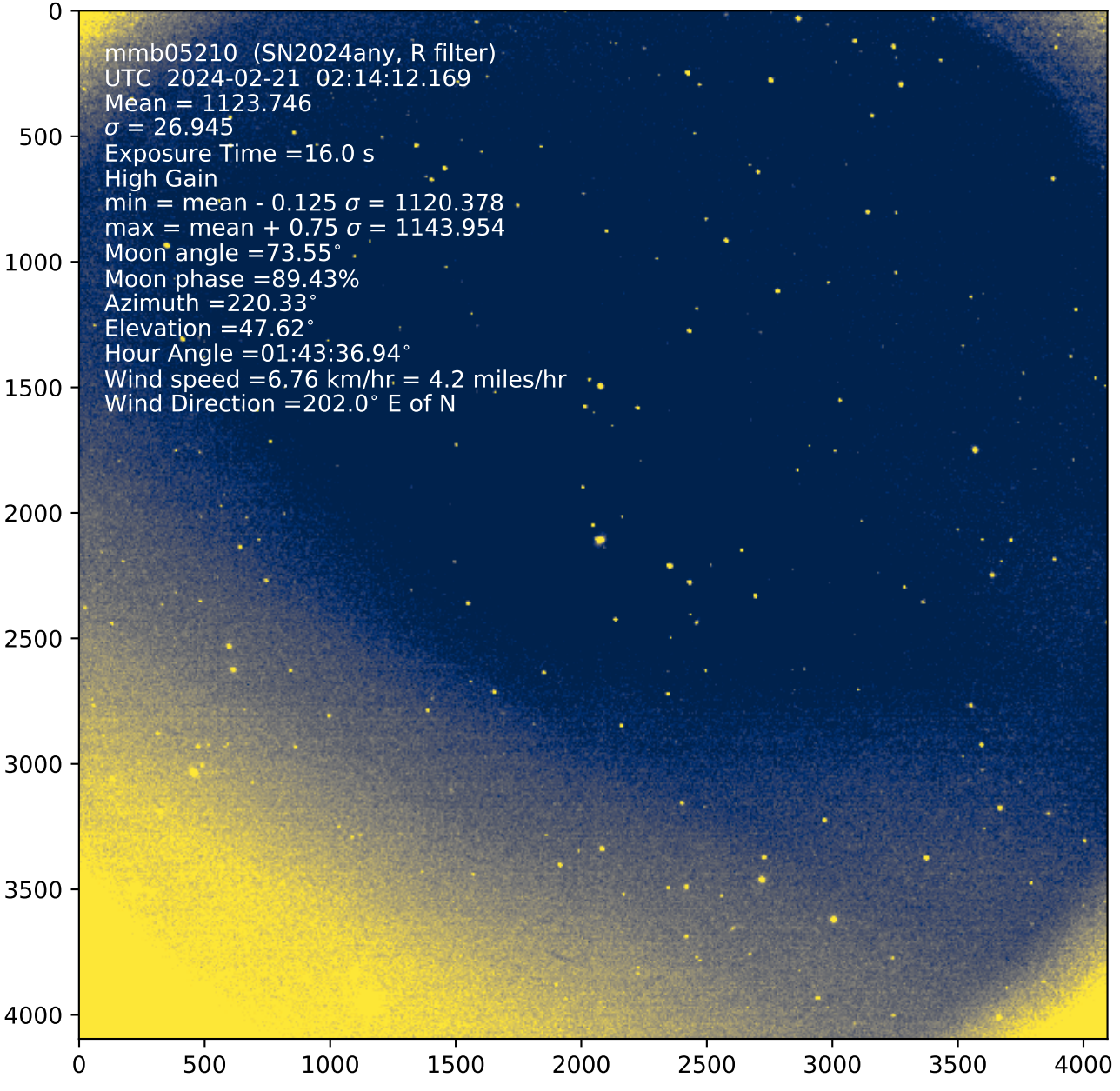
mmb05210 (SN2024any, R filter)
UTC 2024-02-21 02:14:12.169
Mean = 1123.746
σ = 26.945
Exposure Time =16.0 s
High Gain
min = mean - 0.125 σ = 1120.378
max = mean + 0.75 σ = 1143.954
Moon angle =73.55°
Moon phase =89.43%
Azimuth =220.33°
Elevation =47.62°
Hour Angle =01:43:36.94°
Wind speed =6.76 km/hr = 4.2 miles/hr
Wind Direction =202.0° E of N
0
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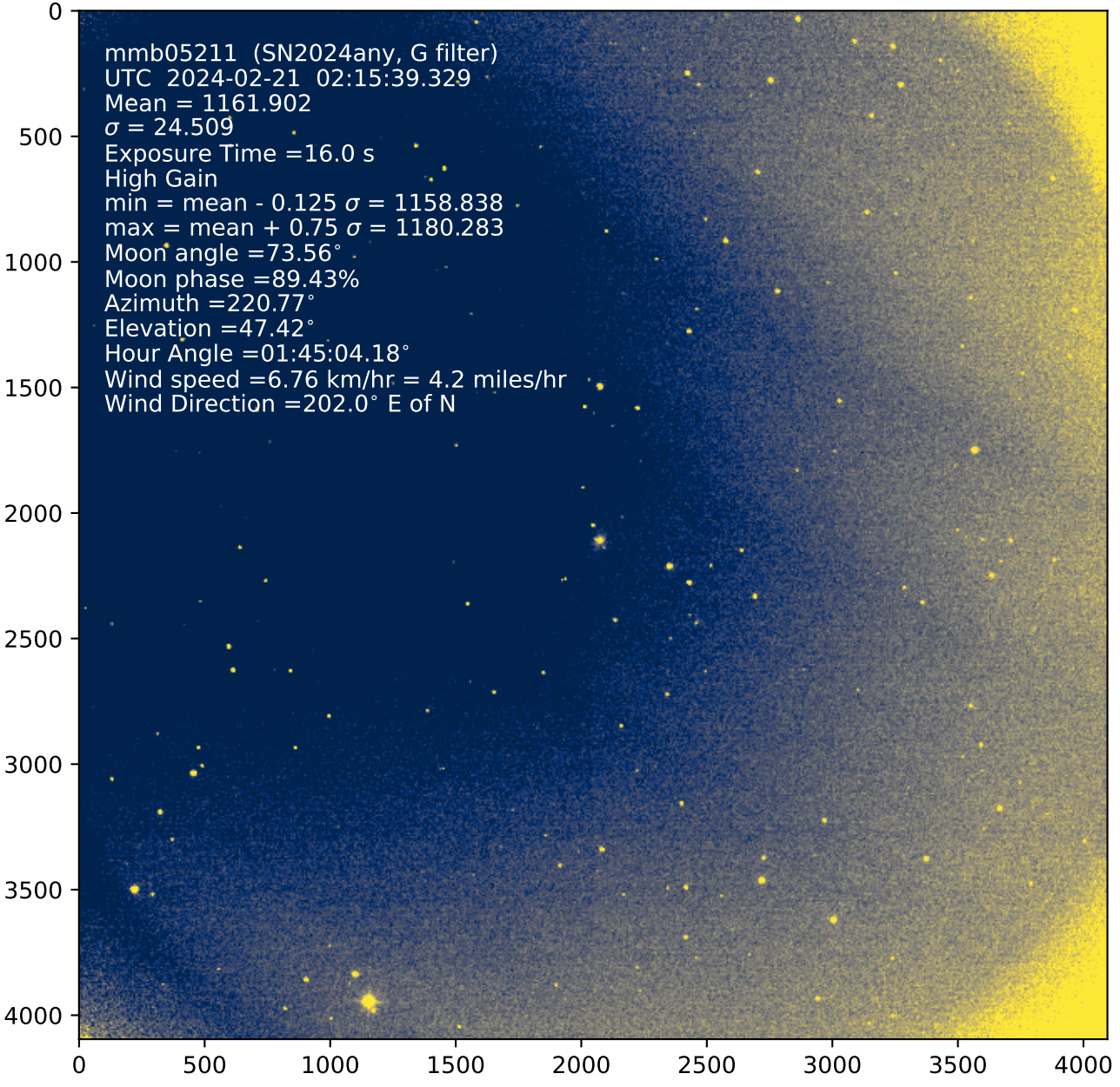
mmb05211 (SN2024any, G filter)
UTC 2024-02-21 02:15:39.329
Mean = 1161.902
σ = 24.509
Exposure Time =16.0 s
High Gain
min = mean - 0.125 σ = 1158.838
max = mean + 0.75 σ = 1180.283
Moon angle =73.56°
Moon phase =89.43%
Azimuth =220.77°
Elevation =47.42°
Hour Angle =01:45:04.18°
Wind speed =6.76 km/hr = 4.2 miles/hr
Wind Direction =202.0° E of N
0
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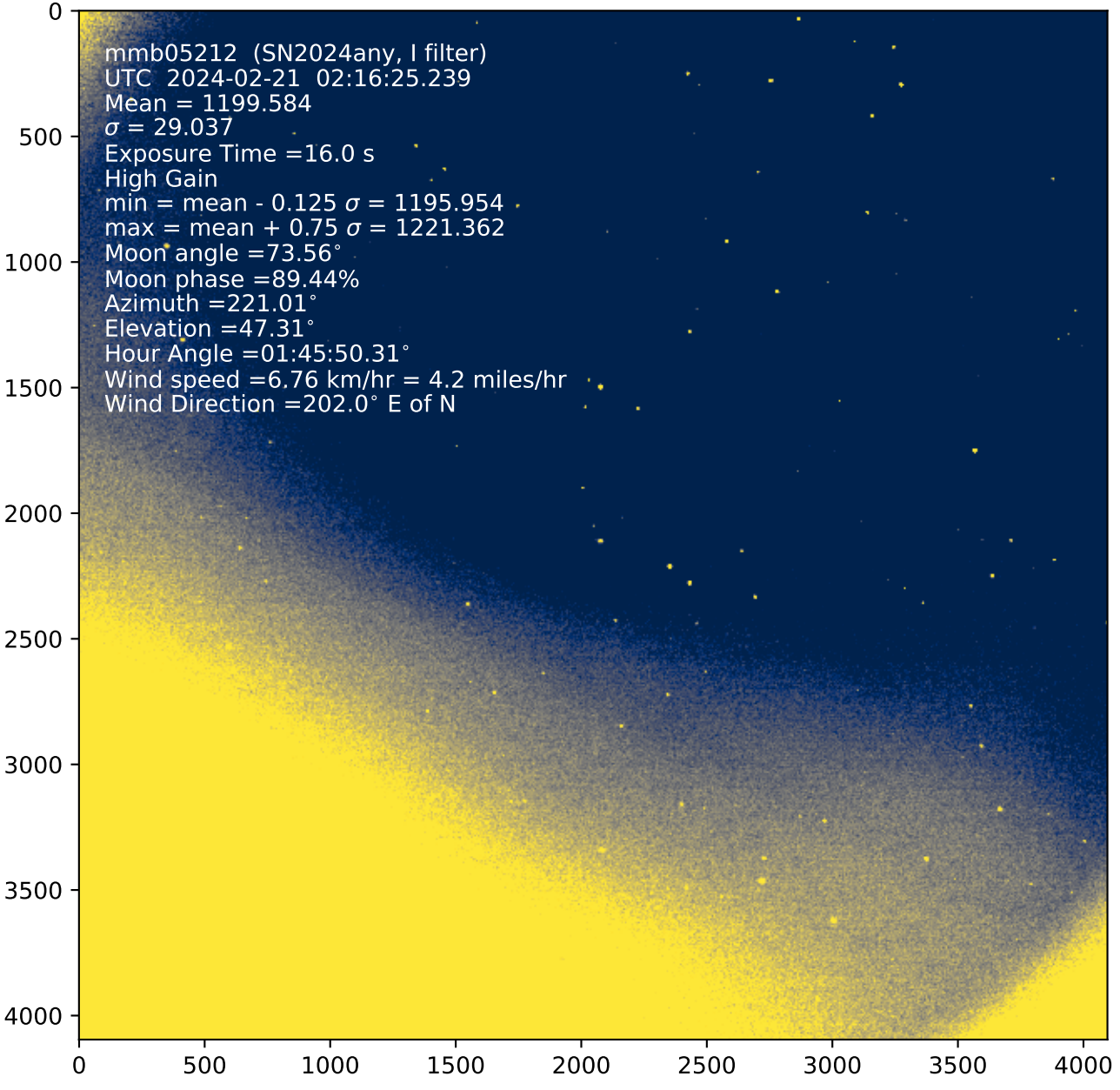
2500
3000
3500
4000


mmb05212 (SN2024any, I filter)
UTC 2024-02-21 02:16:25.239
Mean = 1199.584
σ = 29.037
Exposure Time =16.0 s
High Gain
min = mean - 0.125 σ = 1195.954
max = mean + 0.75 σ = 1221.362
Moon angle =73.56°
Moon phase =89.44%
Azimuth =221.01°
Elevation =47.31°
Hour Angle =01:45:50.31°
Wind speed =6.76 km/hr = 4.2 miles/hr
Wind Direction =202.0° E of N
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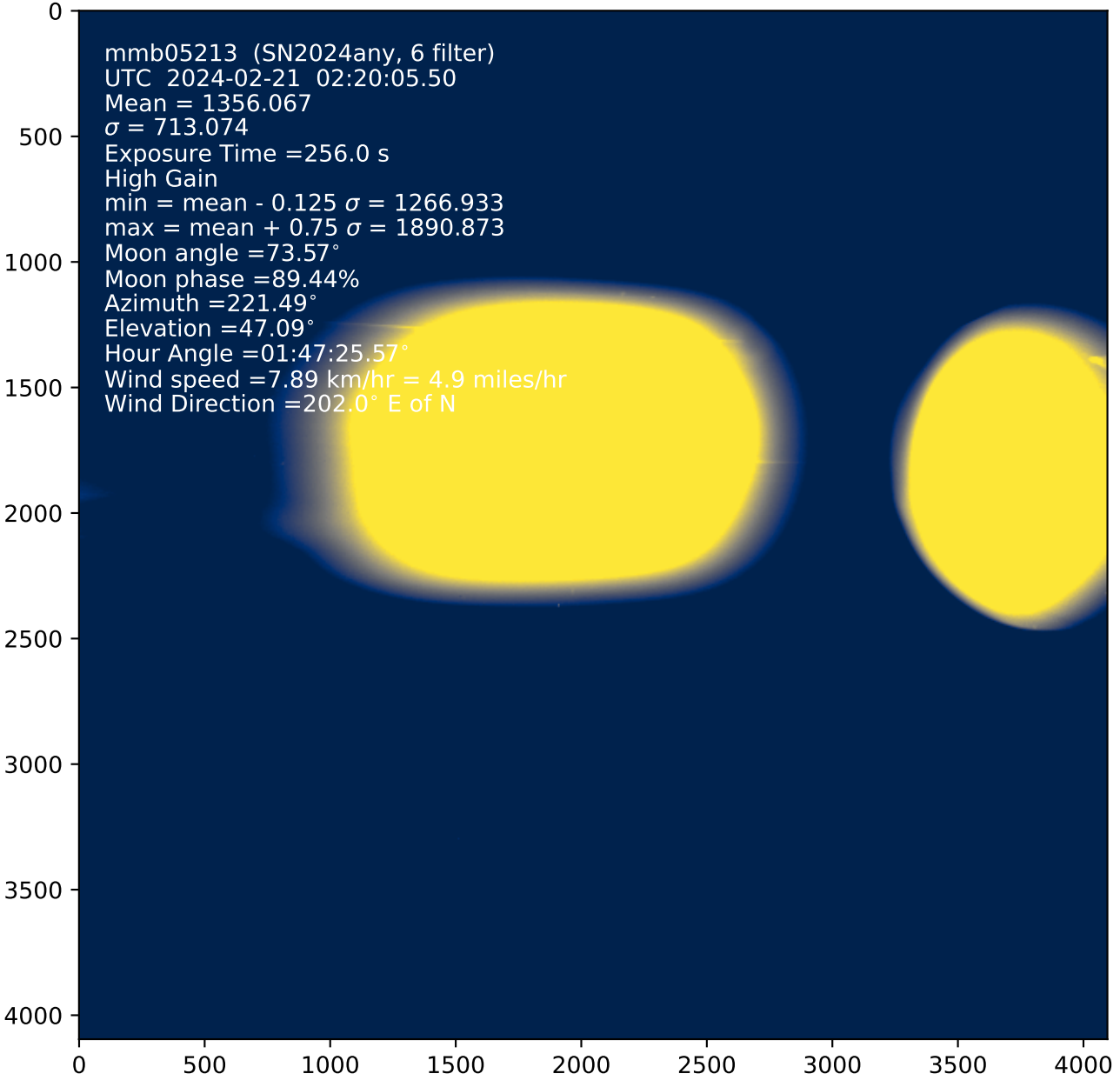
mmb05213 (SN2024any, 6 filter)
UTC 2024-02-21 02:20:05.50
Mean = 1356.067
σ = 713.074
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1266.933
max = mean + 0.75 σ = 1890.873
Moon angle =73.57°
Moon phase =89.44%
Azimuth =221.49°
Elevation =47.09°
Hour Angle =01:47:25.57°
Wind speed =7.89 km/hr = 4.9 miles/hr
Wind Direction =202.0° E of N
0
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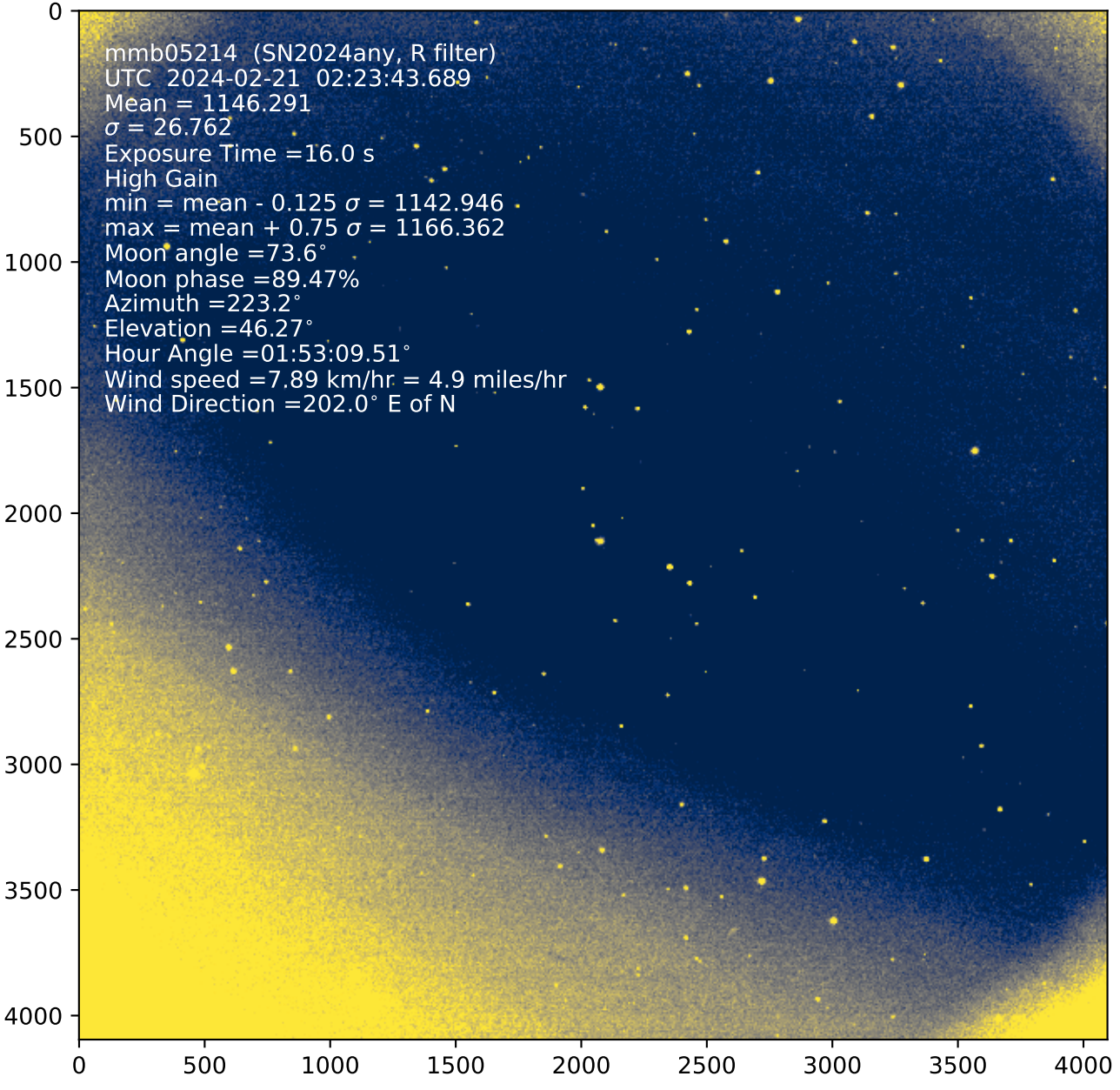
3500
4000


mmb05214 (SN2024any, R filter)
UTC 2024-02-21 02:23:43.689
Mean = 1146.291
σ = 26.762
Exposure Time =16.0 s
High Gain
min = mean - 0.125 σ = 1142.946
max = mean + 0.75 σ = 1166.362
Moon angle =73.6°
Moon phase =89.47%
Azimuth =223.2°
Elevation =46.27°
Hour Angle =01:53:09.51°
Wind speed =7.89 km/hr = 4.9 miles/hr
Wind Direction =202.0° E of N
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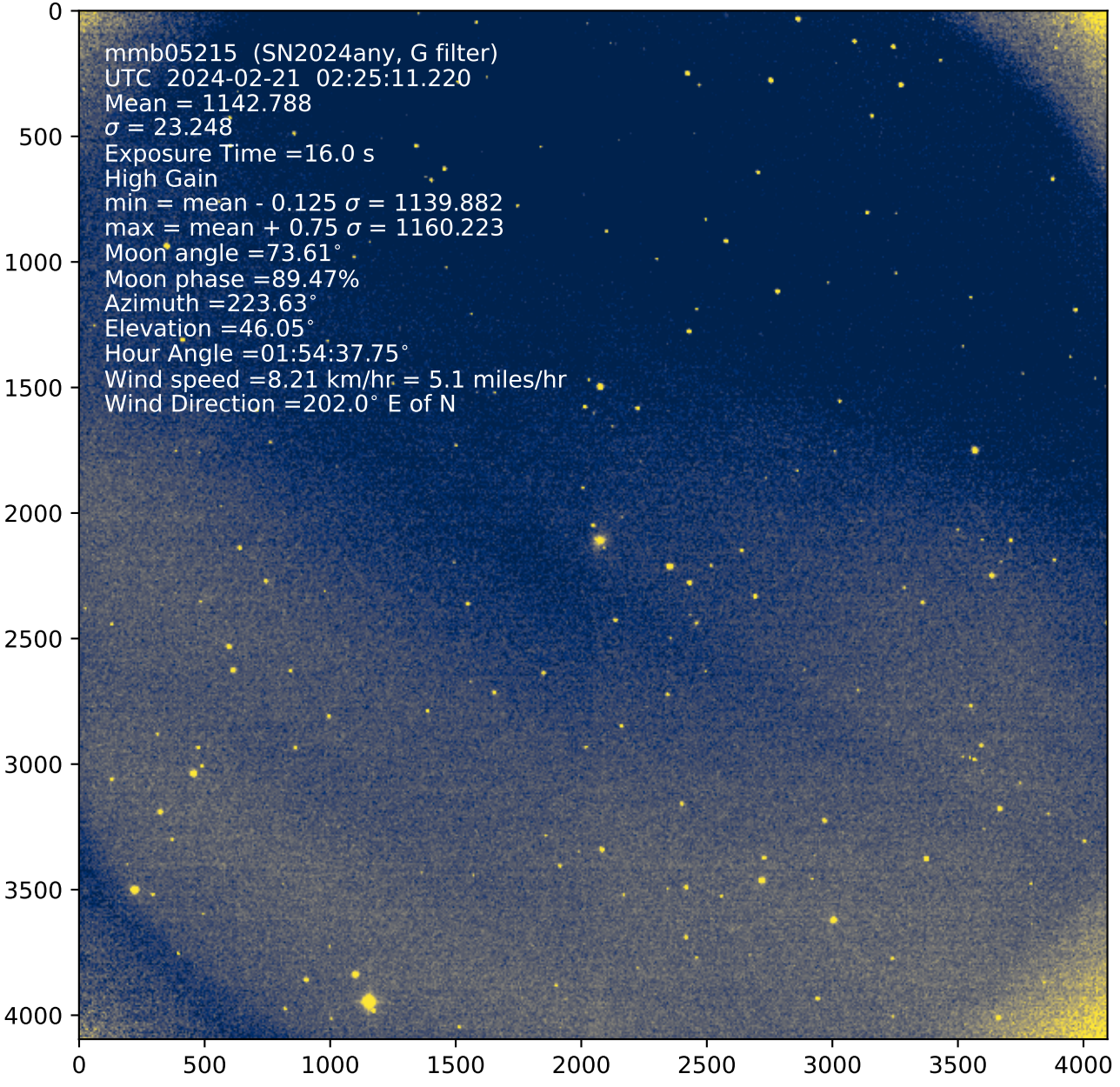
mmb05215 (SN2024any, G filter)
UTC 2024-02-21 02:25:11.220
Mean = 1142.788
σ = 23.248
Exposure Time =16.0 s
High Gain
min = mean - 0.125 σ = 1139.882
max = mean + 0.75 σ = 1160.223
Moon angle =73.61°
Moon phase =89.47%
Azimuth =223.63°
Elevation =46.05°
Hour Angle =01:54:37.75°
Wind speed =8.21 km/hr = 5.1 miles/hr
Wind Direction =202.0° E of N
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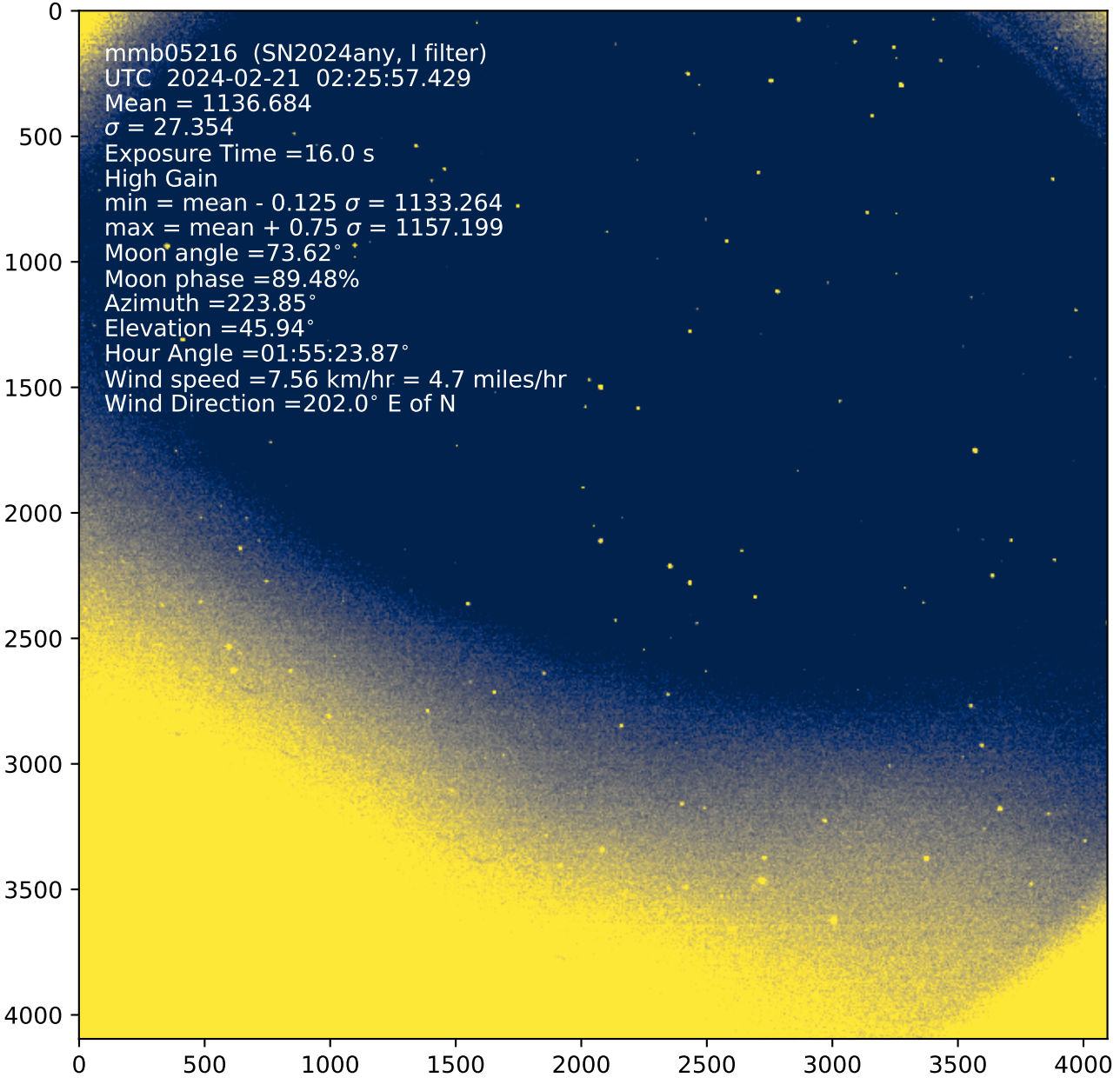
mmb05216 (SN2024any, I filter)
UTC 2024-02-21 02:25:57.429
Mean = 1136.684
σ = 27.354
Exposure Time =16.0 s
High Gain
min = mean - 0.125 σ = 1133.264
max = mean + 0.75 σ = 1157.199
Moon angle =73.62°
Moon phase =89.48%
Azimuth =223.85°
Elevation =45.94°
Hour Angle =01:55:23.87°
Wind speed =7.56 km/hr = 4.7 miles/hr
Wind Direction =202.0° E of N
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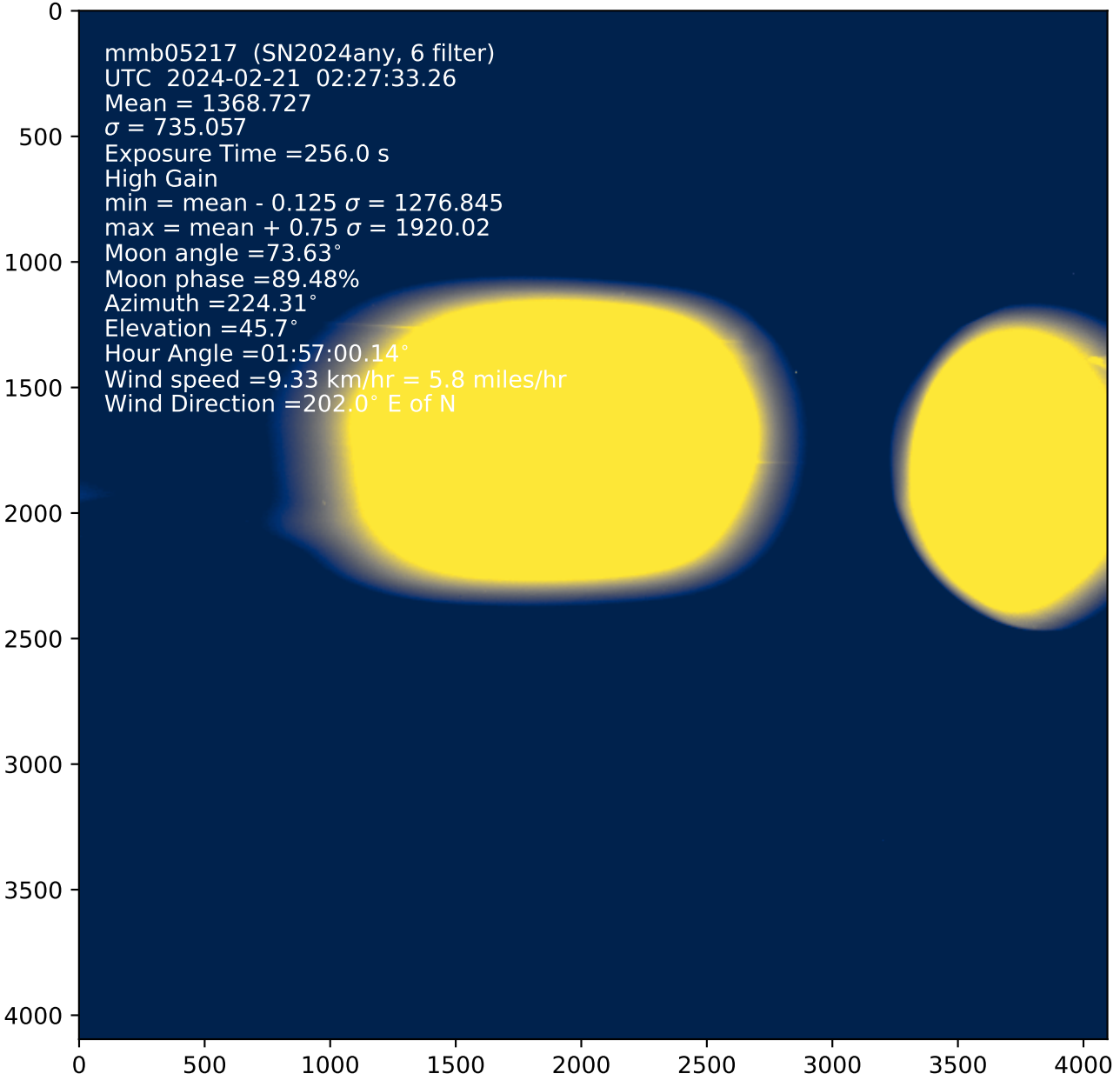
mmb05217 (SN2024any, 6 filter)
UTC 2024-02-21 02:27:33.26
Mean = 1368.727
σ = 735.057
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1276.845
max = mean + 0.75 σ = 1920.02
Moon angle =73.63°
Moon phase =89.48%
Azimuth =224.31°
Elevation =45.7°
Hour Angle =01:57:00.14°
Wind speed =9.33 km/hr = 5.8 miles/hr
Wind Direction =202.0° E of N
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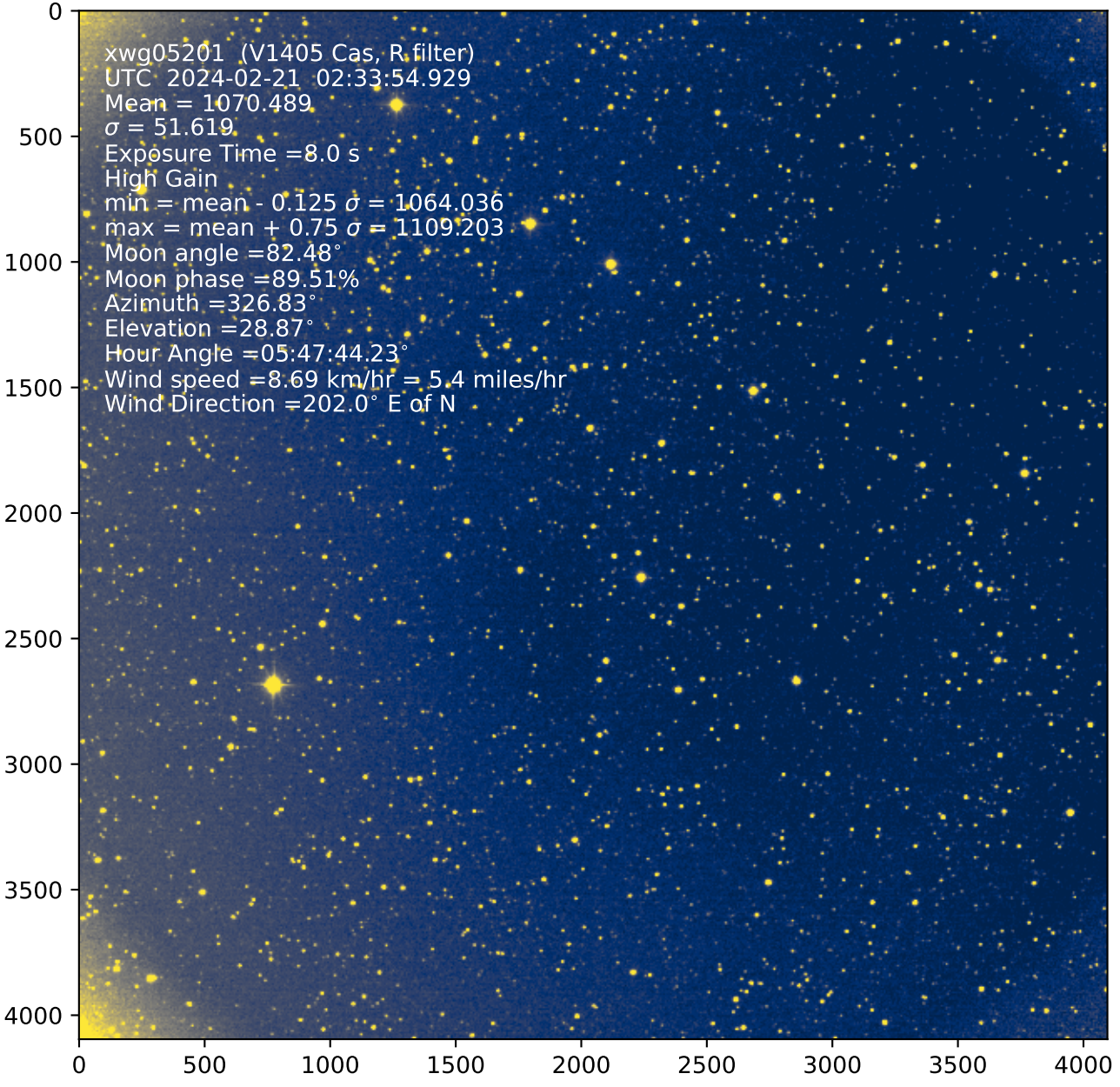
xwg05201 (V1405 Cas, R filter)
UTC 2024-02-21 02:33:54.929
Mean = 1070.489
σ = 51.619
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1064.036
max = mean + 0.75 σ = 1109.203
Moon angle =82.48°
Moon phase =89.51%
Azimuth =326.83°
Elevation =28.87°
Hour Angle =05:47:44.23°
Wind speed =8.69 km/hr = 5.4 miles/hr
Wind Direction =202.0° E of N
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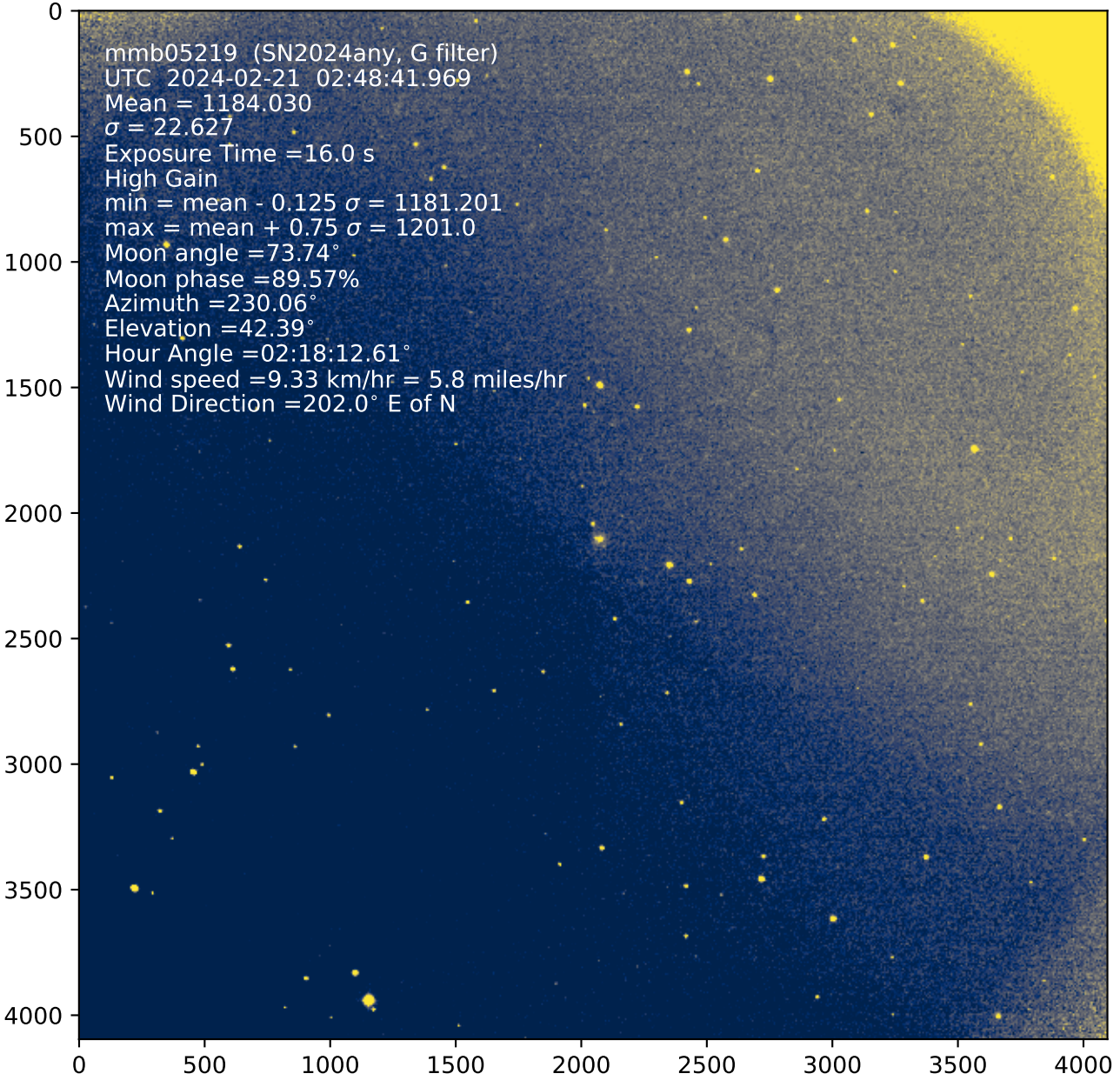
mmb05219 (SN2024any, G filter)
UTC 2024-02-21 02:48:41.969
Mean = 1184.030
σ = 22.627
Exposure Time =16.0 s
High Gain
min = mean - 0.125 σ = 1181.201
max = mean + 0.75 σ = 1201.0
Moon angle =73.74°
Moon phase =89.57%
Azimuth =230.06°
Elevation =42.39°
Hour Angle =02:18:12.61°
Wind speed =9.33 km/hr = 5.8 miles/hr
Wind Direction =202.0° E of N
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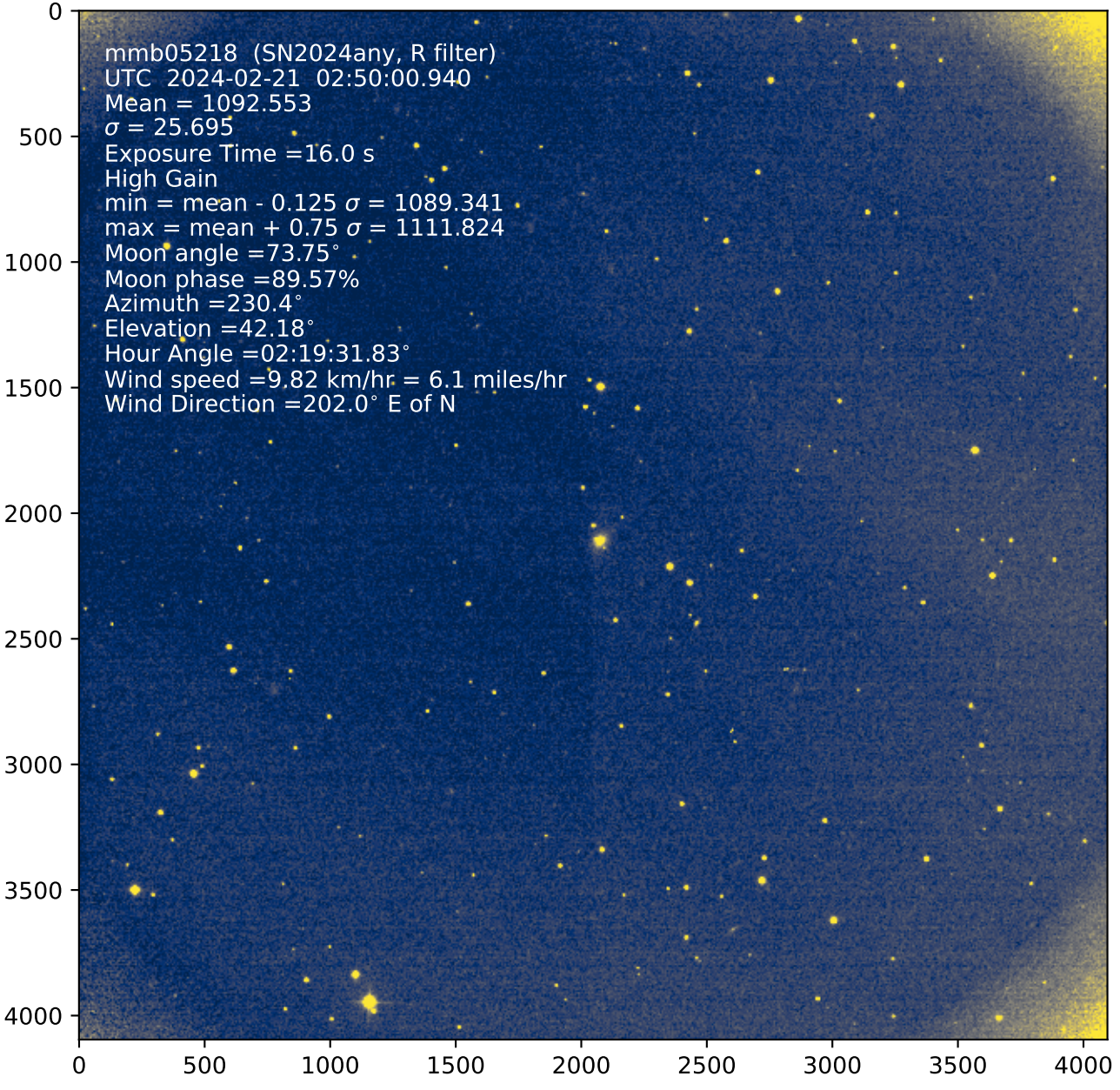
mmb05218 (SN2024any, R filter)
UTC 2024-02-21 02:50:00.940
Mean = 1092.553
σ = 25.695
Exposure Time =16.0 s
High Gain
min = mean - 0.125 σ = 1089.341
max = mean + 0.75 σ = 1111.824
Moon angle =73.75°
Moon phase =89.57%
Azimuth =230.4°
Elevation =42.18°
Hour Angle =02:19:31.83°
Wind speed =9.82 km/hr = 6.1 miles/hr
Wind Direction =202.0° E of N
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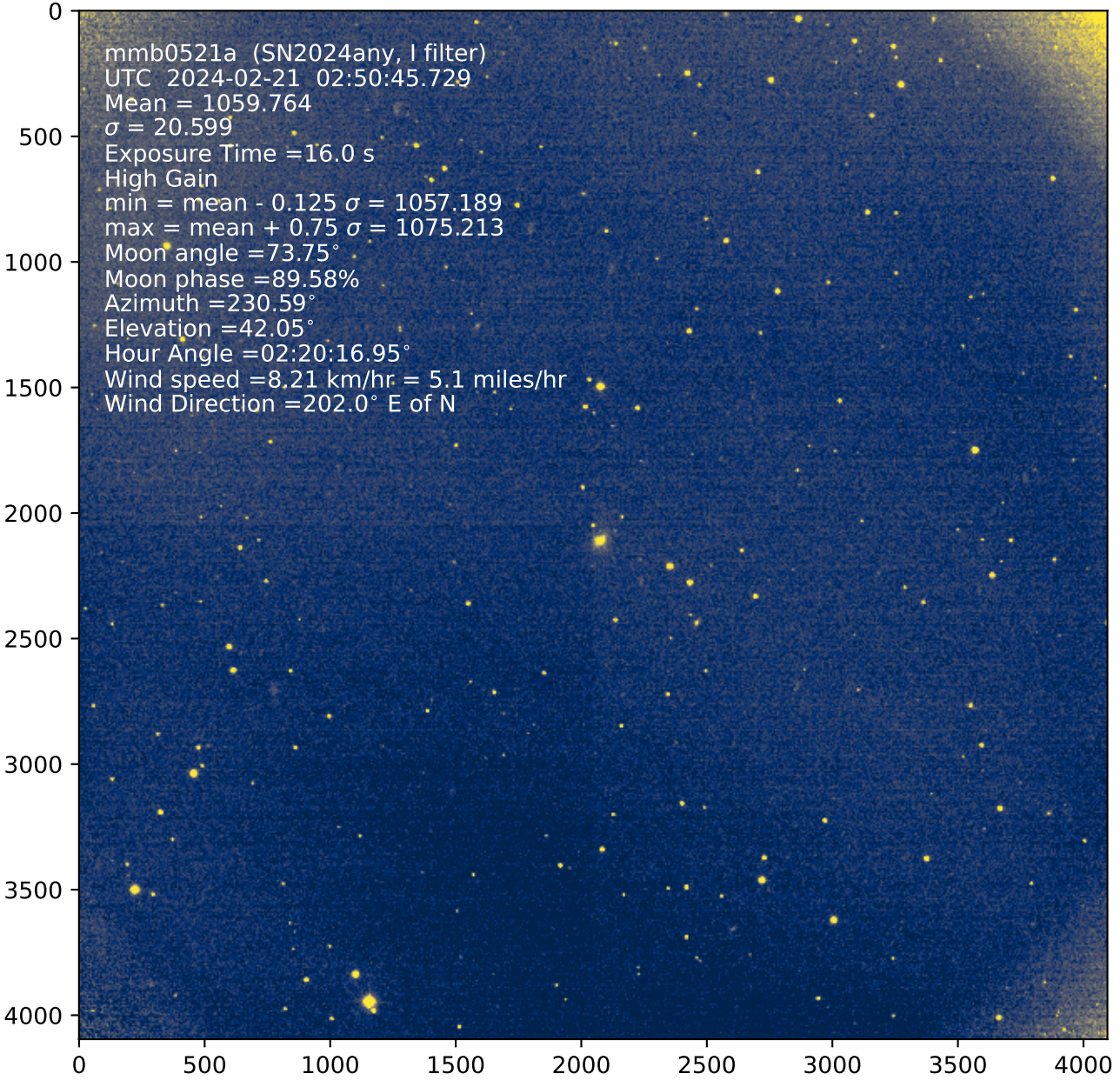
mmb0521a (SN2024any, I filter)
UTC 2024-02-21 02:50:45.729
Mean = 1059.764
σ = 20.599
Exposure Time =16.0 s
High Gain
min = mean - 0.125 σ = 1057.189
max = mean + 0.75 σ = 1075.213
Moon angle =73.75°
Moon phase =89.58%
Azimuth =230.59°
Elevation =42.05°
Hour Angle =02:20:16.95°
Wind speed =8.21 km/hr = 5.1 miles/hr
Wind Direction =202.0° E of N
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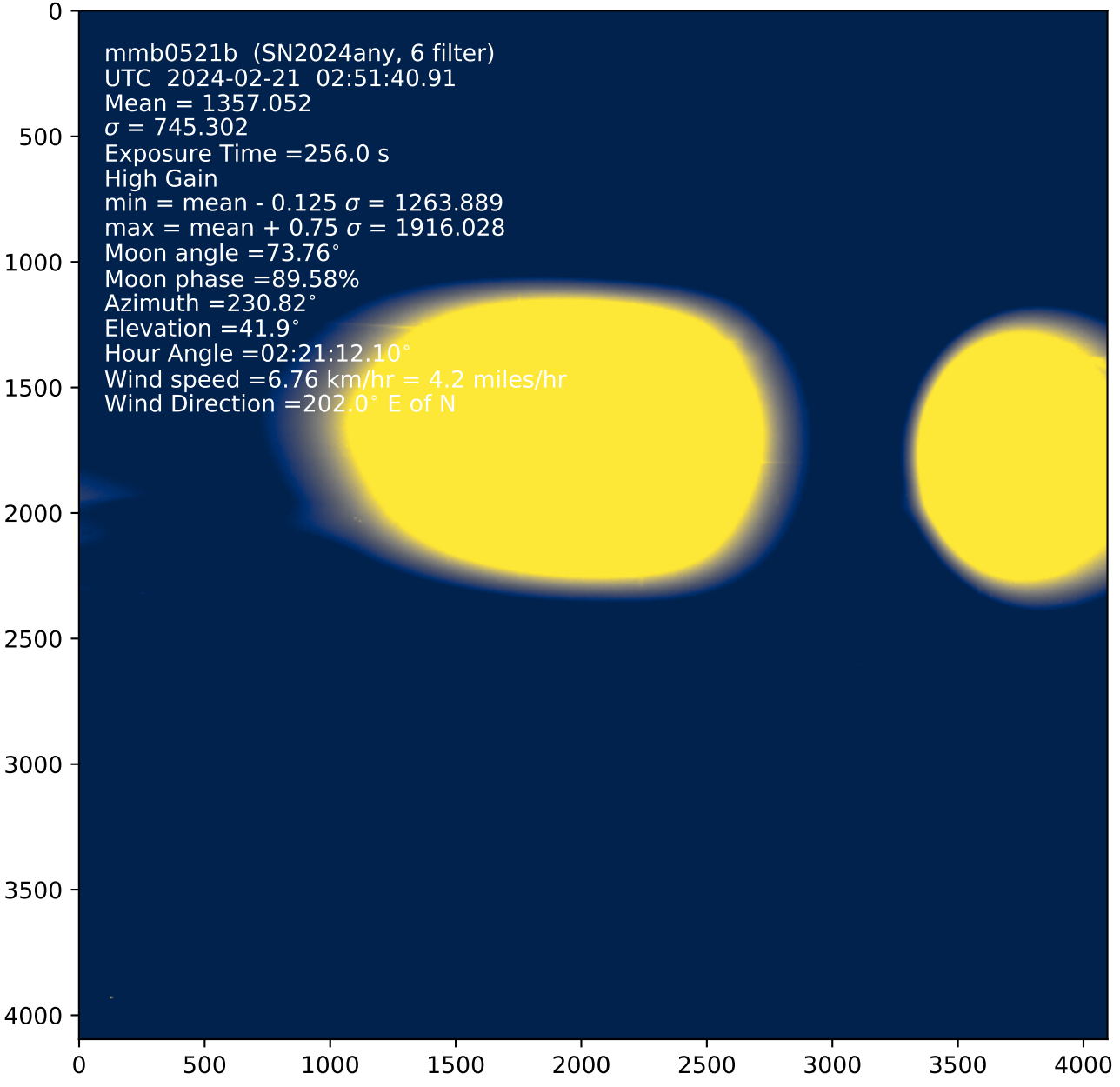
mmb0521b (SN2024any, 6 filter)
UTC 2024-02-21 02:51:40.91
Mean = 1357.052
σ = 745.302
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1263.889
max = mean + 0.75 σ = 1916.028
Moon angle =73.76°
Moon phase =89.58%
Azimuth =230.82°
Elevation =41.9°
Hour Angle =02:21:12.10°
Wind speed =6.76 km/hr = 4.2 miles/hr
Wind Direction =202.0° E of N
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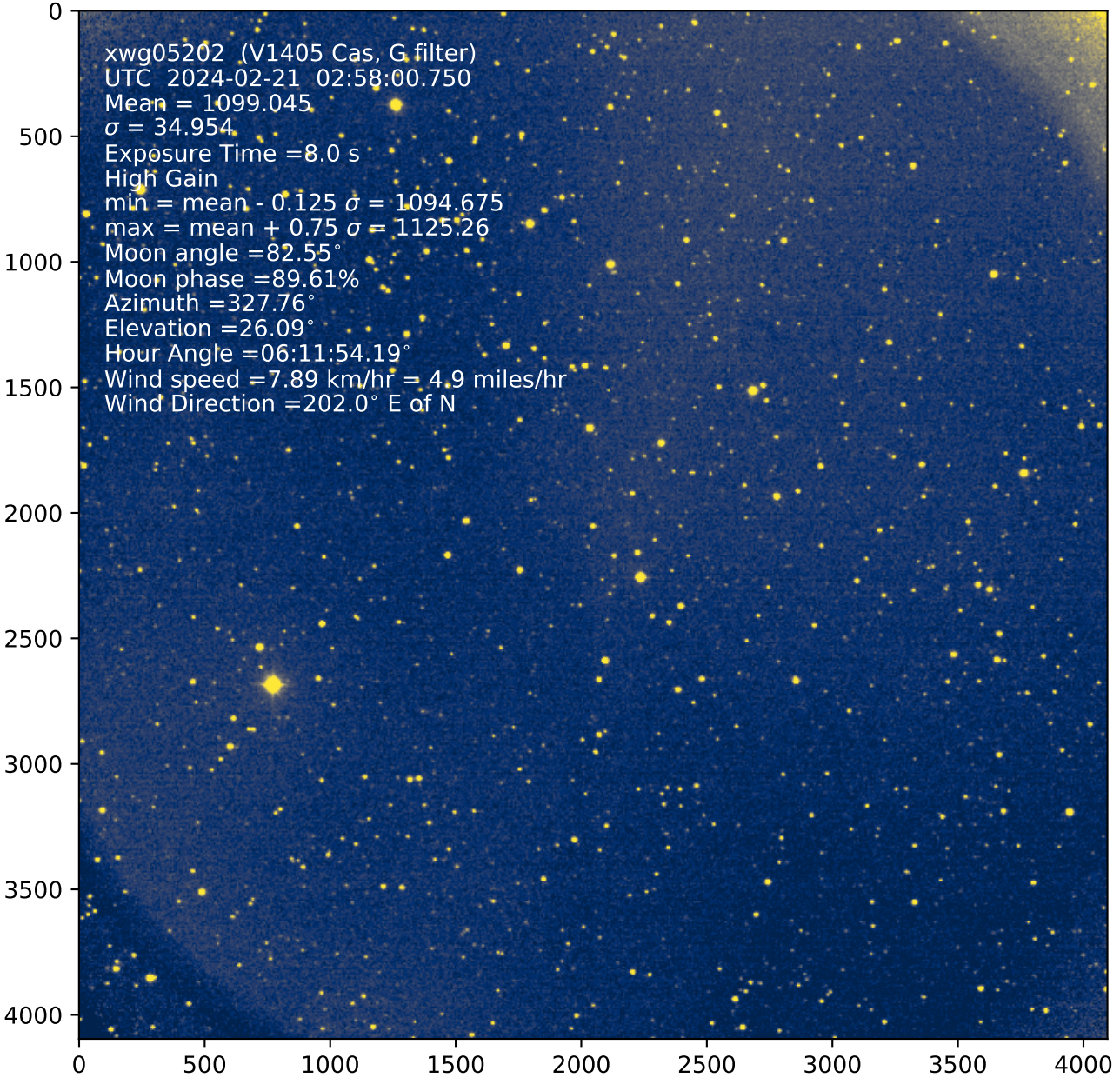
xwg05202 (V1405 Cas, G filter)
UTC 2024-02-21 02:58:00.750
Mean = 1099.045
σ = 34.954
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1094.675
max = mean + 0.75 σ = 1125.26
Moon angle =82.55°
Moon phase =89.61%
Azimuth =327.76°
Elevation =26.09°
Hour Angle =06:11:54.19°
Wind speed =7.89 km/hr = 4.9 miles/hr
Wind Direction =202.0° E of N
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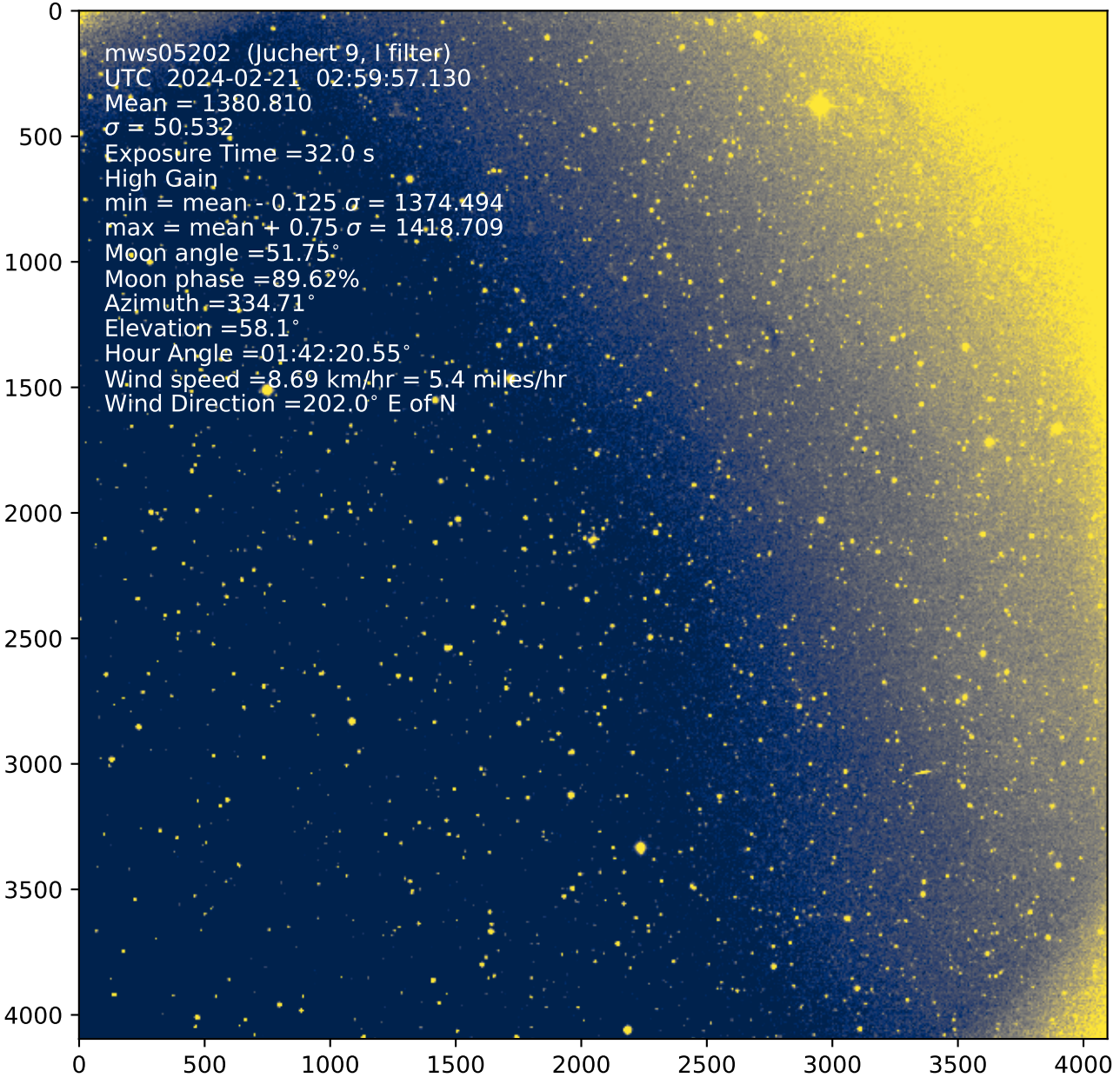
mws05202 (Juchert 9, I filter)
UTC 2024-02-21 02:59:57.130
Mean = 1380.810
σ = 50.532
Exposure Time =32.0 s
High Gain
min = mean - 0.125 σ = 1374.494
max = mean + 0.75 σ = 1418.709
Moon angle =51.75°
Moon phase =89.62%
Azimuth =334.71°
Elevation =58.1°
Hour Angle =01:42:20.55°
Wind speed =8.69 km/hr = 5.4 miles/hr
Wind Direction =202.0° E of N
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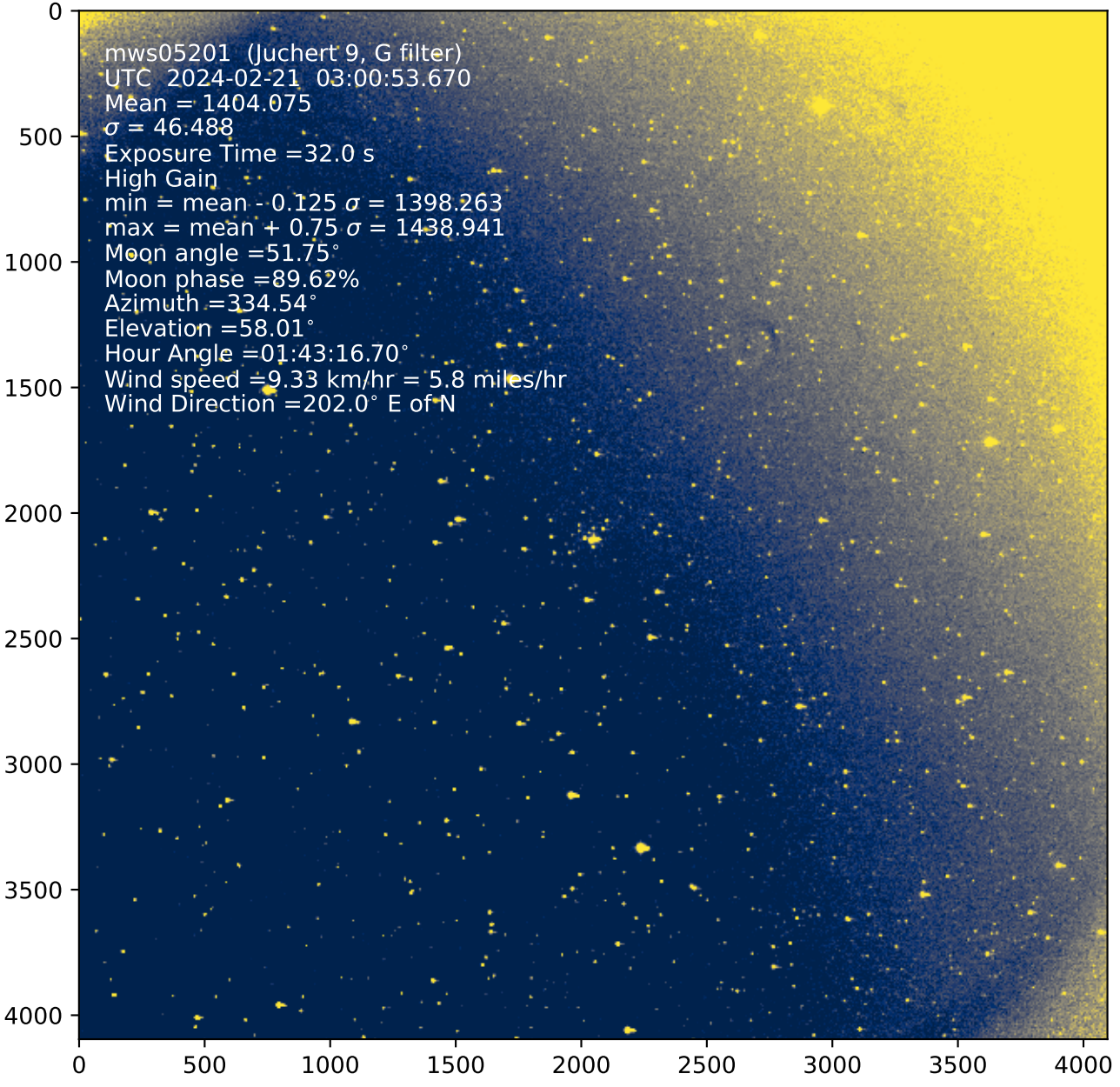
mws05201 (Juchert 9, G filter)
UTC 2024-02-21 03:00:53.670
Mean = 1404.075
σ = 46.488
Exposure Time =32.0 s
High Gain
min = mean - 0.125 σ = 1398.263
max = mean + 0.75 σ = 1438.941
Moon angle =51.75°
Moon phase =89.62%
Azimuth =334.54°
Elevation =58.01°
Hour Angle =01:43:16.70°
Wind speed =9.33 km/hr = 5.8 miles/hr
Wind Direction =202.0° E of N
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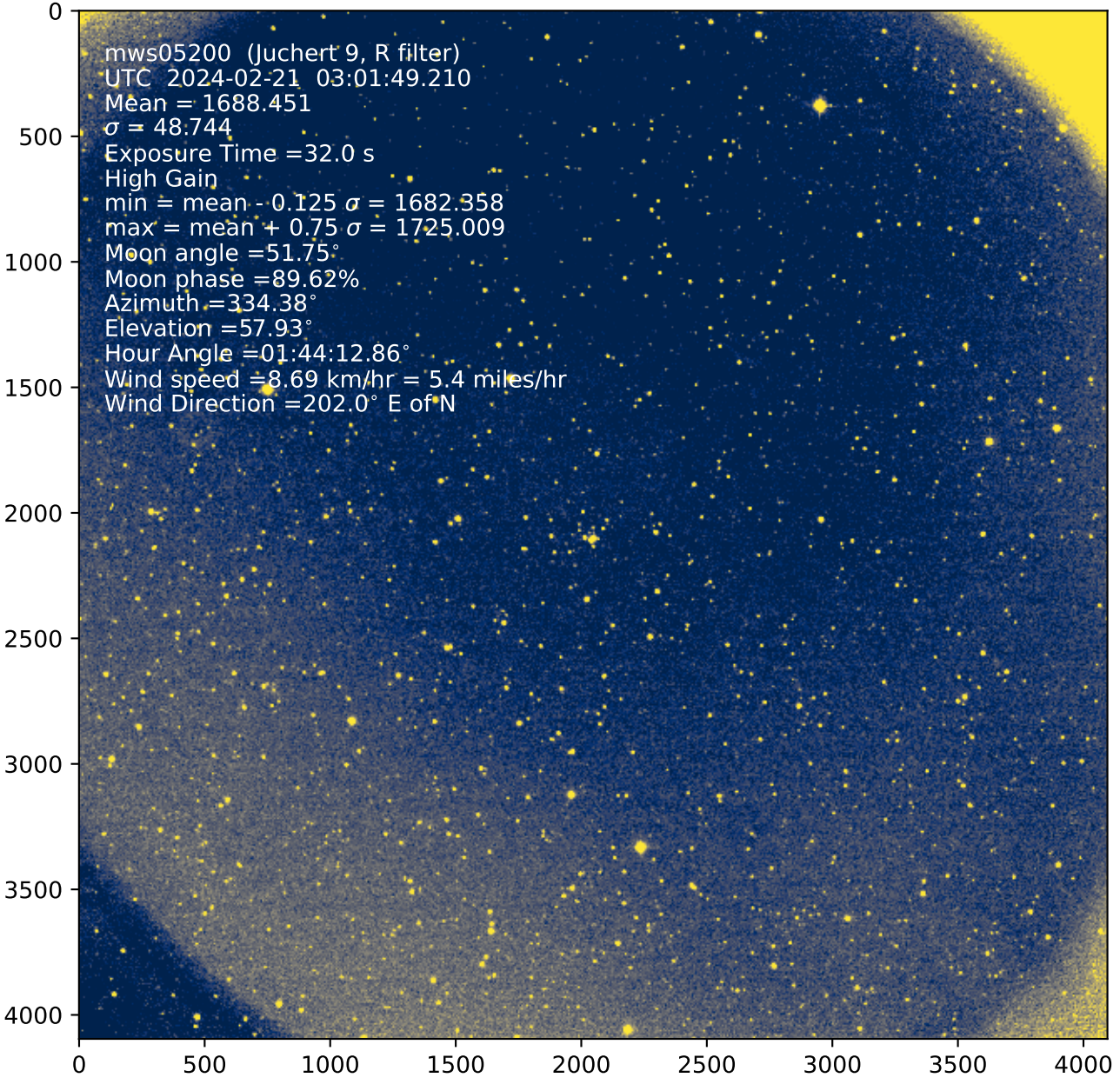
mws05200 (Juchert 9, R filter)
UTC 2024-02-21 03:01:49.210
Mean = 1688.451
σ = 48.744
Exposure Time =32.0 s
High Gain
min = mean - 0.125 σ = 1682.358
max = mean + 0.75 σ = 1725.009
Moon angle =51.75°
Moon phase =89.62%
Azimuth =334.38°
Elevation =57.93°
Hour Angle =01:44:12.86°
Wind speed =8.69 km/hr = 5.4 miles/hr
Wind Direction =202.0° E of N
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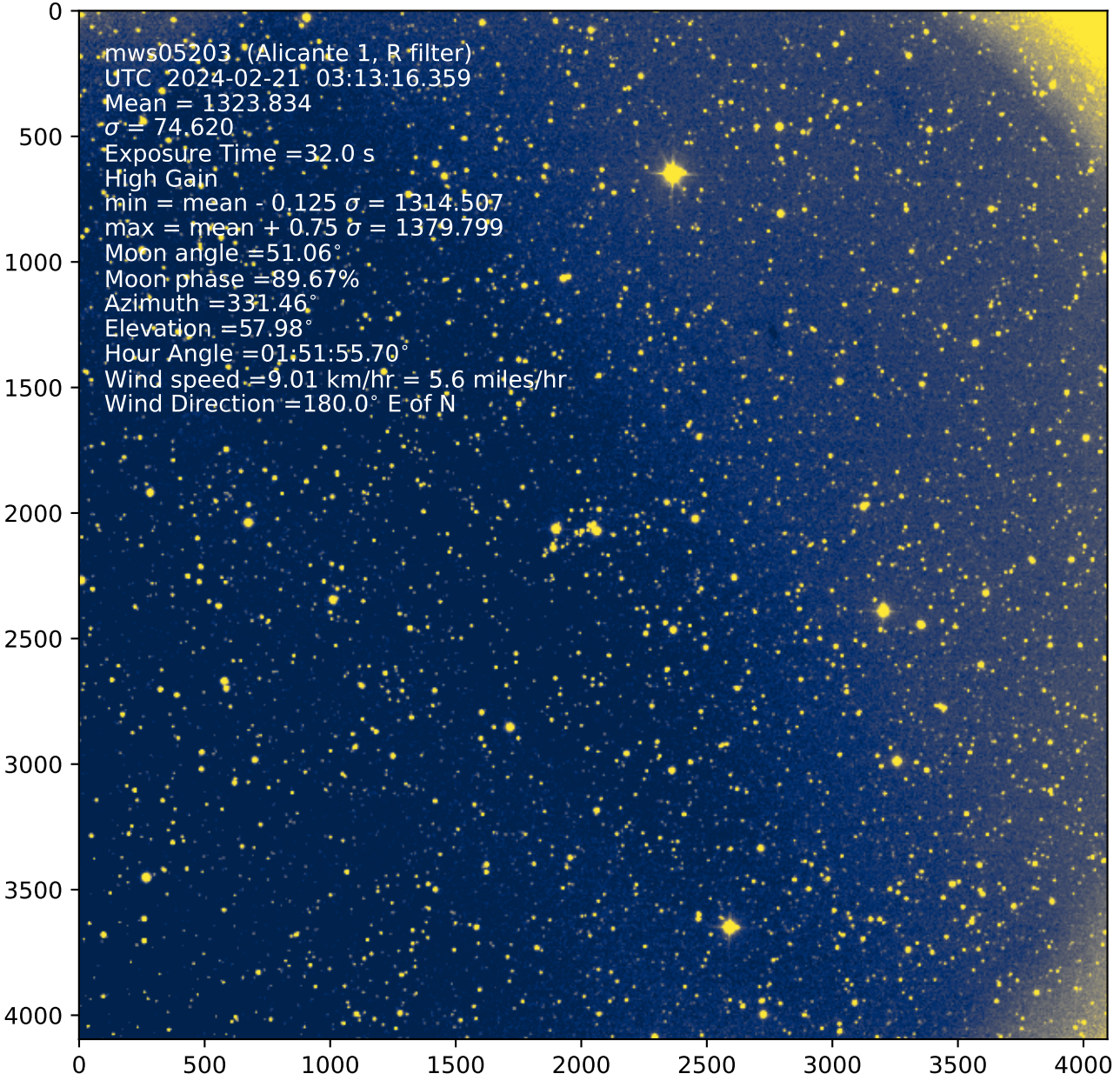
mws05203 (Alicante 1, R filter)
UTC 2024-02-21 03:13:16.359
Mean = 1323.834
σ = 74.620
Exposure Time =32.0 s
High Gain
min = mean - 0.125 σ = 1314.507
max = mean + 0.75 σ = 1379.799
Moon angle =51.06°
Moon phase =89.67%
Azimuth =331.46°
Elevation =57.98°
Hour Angle =01:51:55.70°
Wind speed =9.01 km/hr = 5.6 miles/hr
Wind Direction =180.0° E of N
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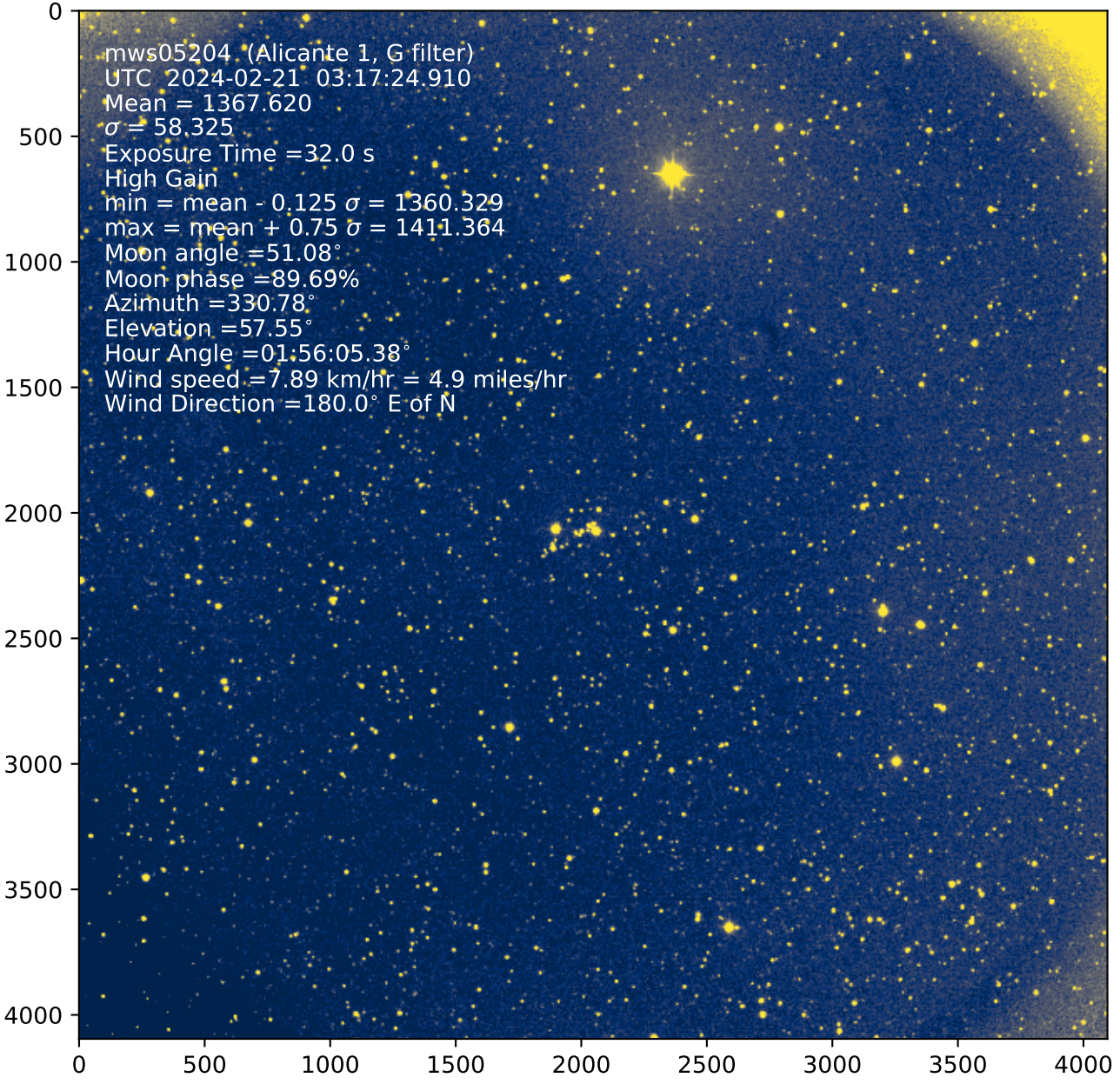
mws05204 (Alicante 1, G filter)
UTC 2024-02-21 03:17:24.910
Mean = 1367.620
σ = 58.325
Exposure Time =32.0 s
High Gain
min = mean - 0.125 σ = 1360.329
max = mean + 0.75 σ = 1411.364
Moon angle =51.08°
Moon phase =89.69%
Azimuth =330.78°
Elevation =57.55°
Hour Angle =01:56:05.38°
Wind speed =7.89 km/hr = 4.9 miles/hr
Wind Direction =180.0° E of N
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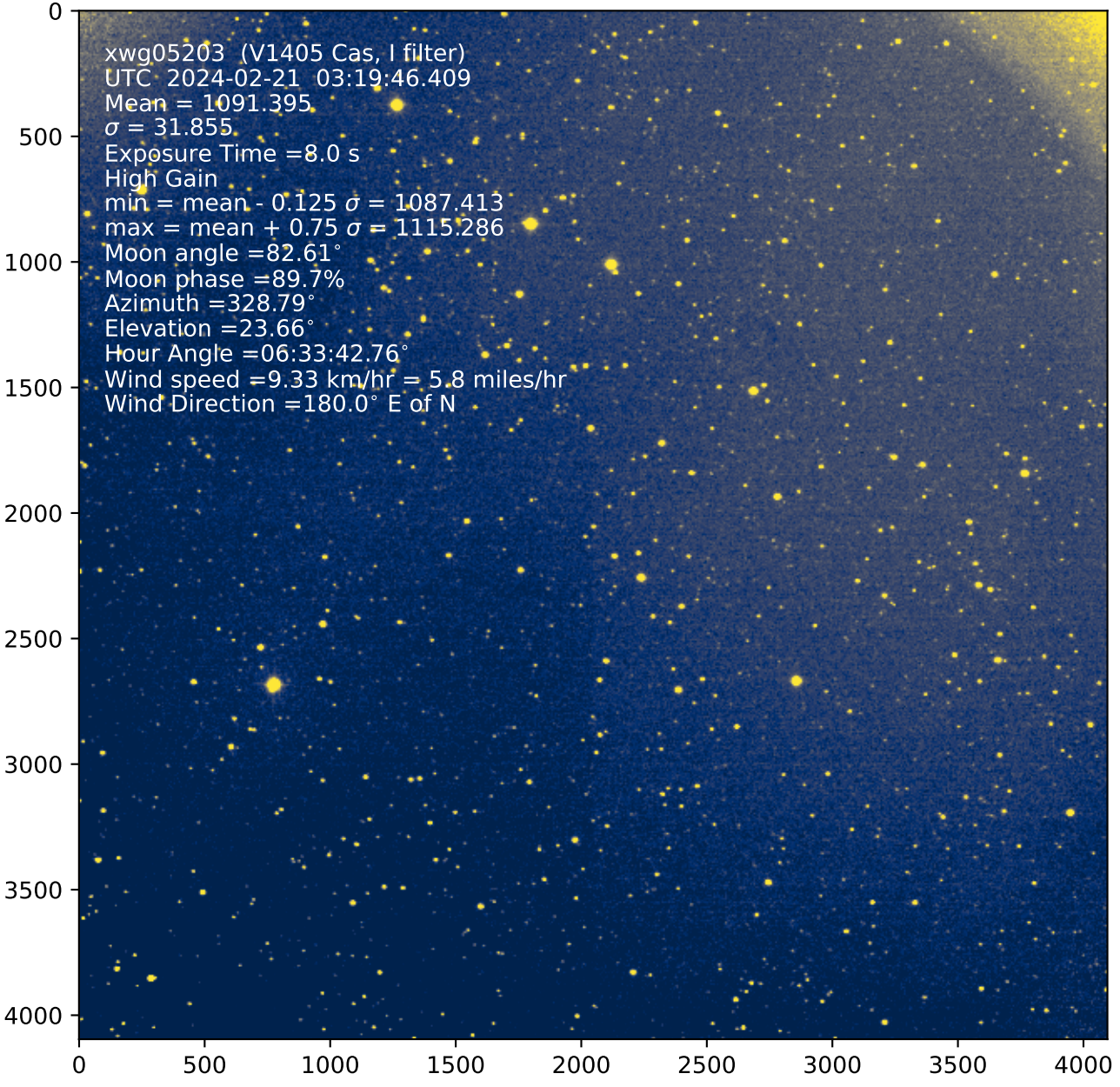
xwg05203 (V1405 Cas, I filter)
UTC 2024-02-21 03:19:46.409
Mean = 1091.395
σ = 31.855
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1087.413
max = mean + 0.75 σ = 1115.286
Moon angle =82.61°
Moon phase =89.7%
Azimuth =328.79°
Elevation =23.66°
Hour Angle =06:33:42.76°
Wind speed =9.33 km/hr = 5.8 miles/hr
Wind Direction =180.0° E of N
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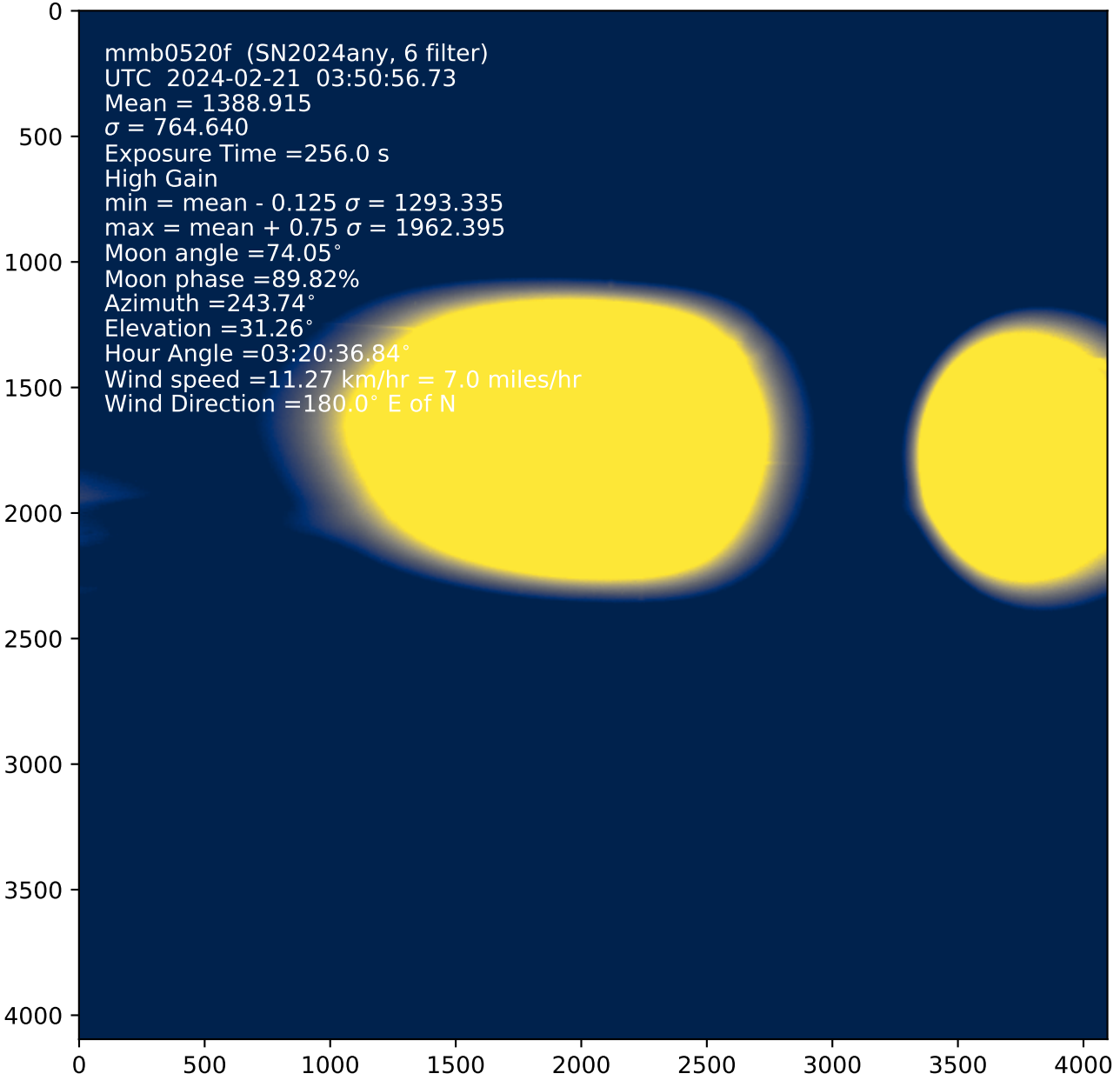
mmb0520f (SN2024any, 6 filter)
UTC 2024-02-21 03:50:56.73
Mean = 1388.915
σ = 764.640
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1293.335
max = mean + 0.75 σ = 1962.395
Moon angle =74.05°
Moon phase =89.82%
Azimuth =243.74°
Elevation =31.26°
Hour Angle =03:20:36.84°
Wind speed =11.27 km/hr = 7.0 miles/hr
Wind Direction =180.0° E of N
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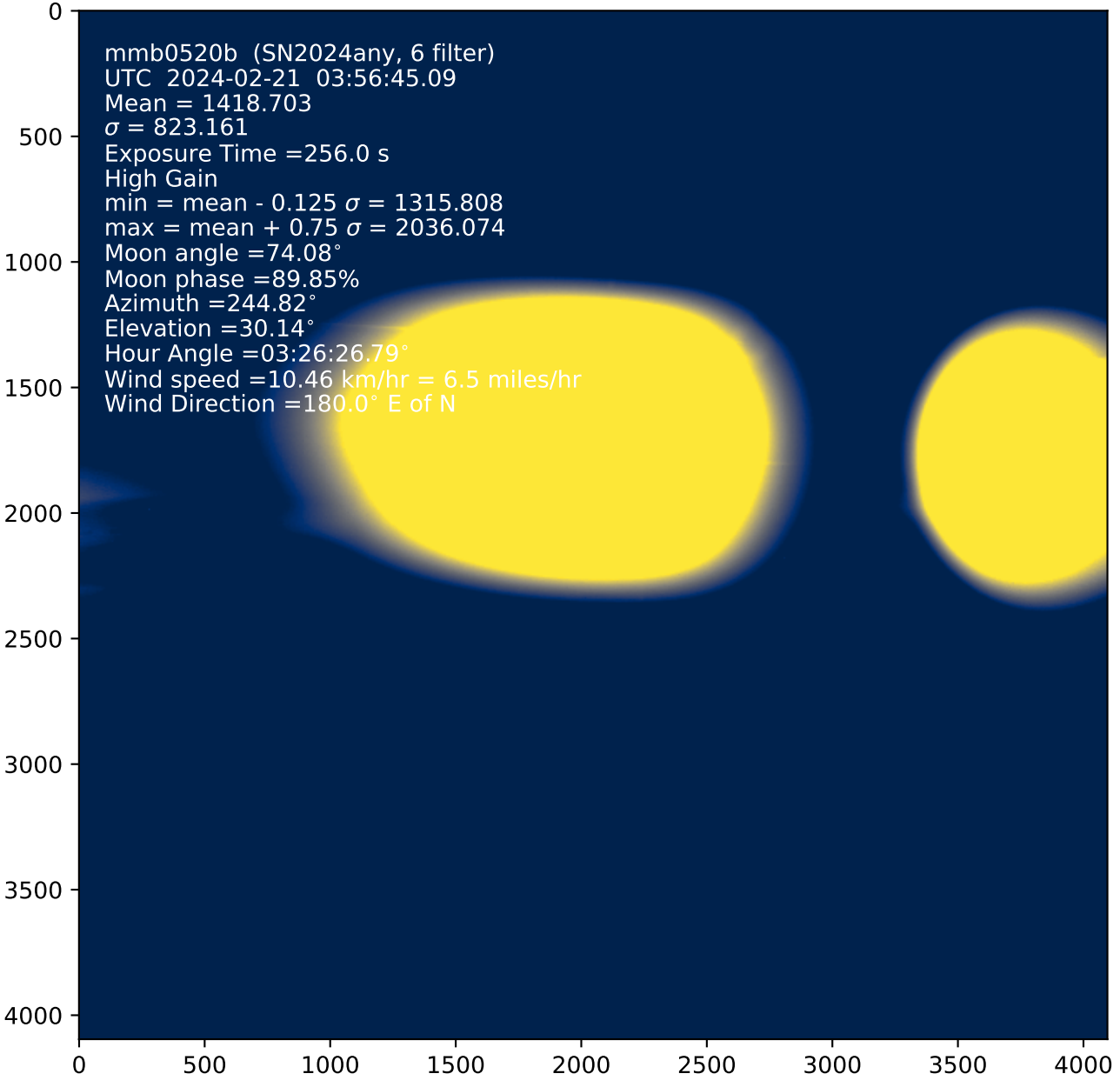
mmb0520b (SN2024any, 6 filter)
UTC 2024-02-21 03:56:45.09
Mean = 1418.703
σ = 823.161
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1315.808
max = mean + 0.75 σ = 2036.074
Moon angle =74.08°
Moon phase =89.85%
Azimuth =244.82°
Elevation =30.14°
Hour Angle =03:26:26.79°
Wind speed =10.46 km/hr = 6.5 miles/hr
Wind Direction =180.0° E of N
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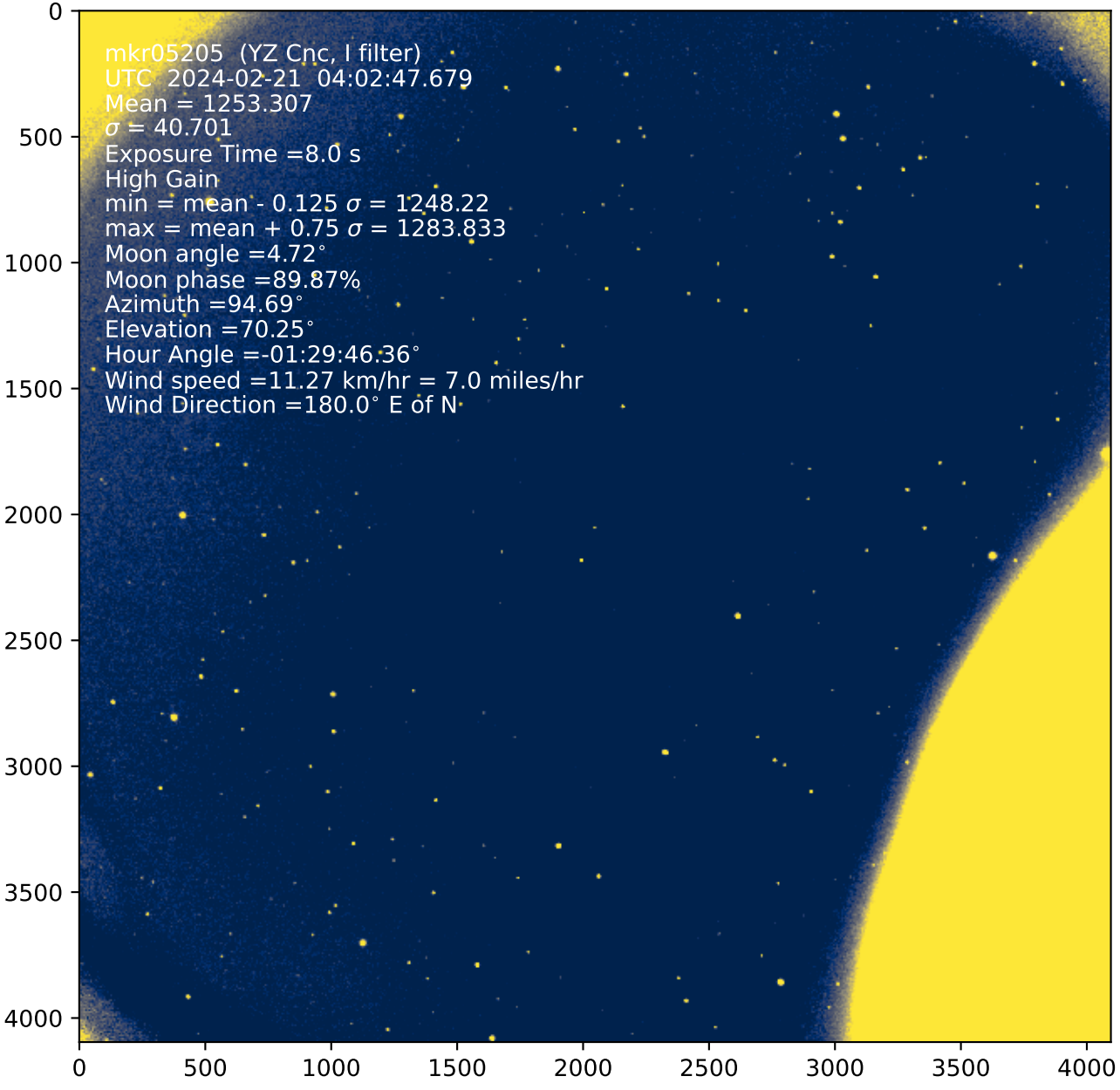
mkr05205 (YZ Cnc, I filter)
UTC 2024-02-21 04:02:47.679
Mean = 1253.307
σ = 40.701
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1248.22
max = mean + 0.75 σ = 1283.833
Moon angle =4.72°
Moon phase =89.87%
Azimuth =94.69°
Elevation =70.25°
Hour Angle =-01:29:46.36°
Wind speed =11.27 km/hr = 7.0 miles/hr
Wind Direction =180.0° E of N
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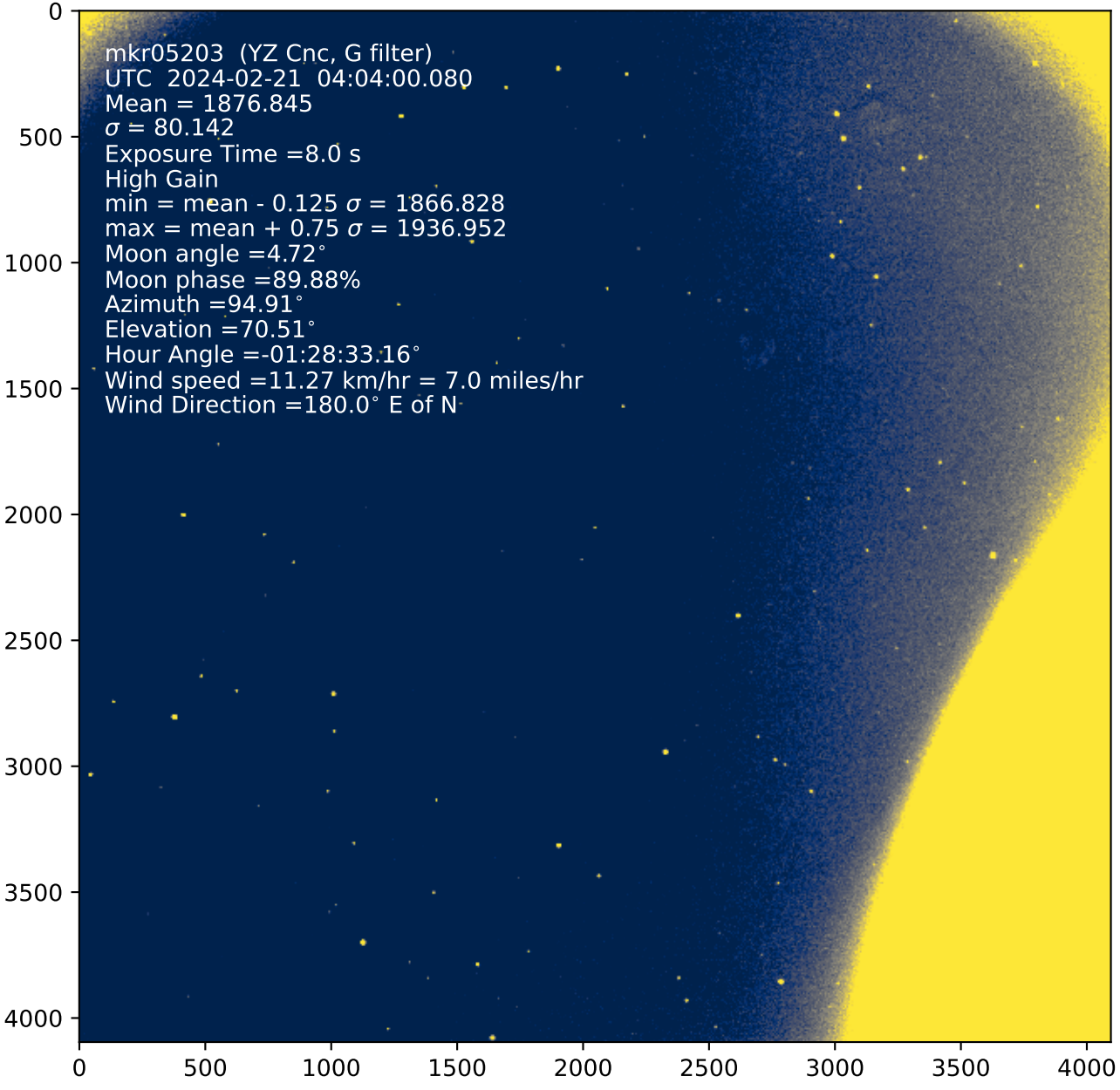
mkr05203 (YZ Cnc, G filter)
UTC 2024-02-21 04:04:00.080
Mean = 1876.845
σ = 80.142
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1866.828
max = mean + 0.75 σ = 1936.952
Moon angle =4.72°
Moon phase =89.88%
Azimuth =94.91°
Elevation =70.51°
Hour Angle =-01:28:33.16°
Wind speed =11.27 km/hr = 7.0 miles/hr
Wind Direction =180.0° E of N
0
500
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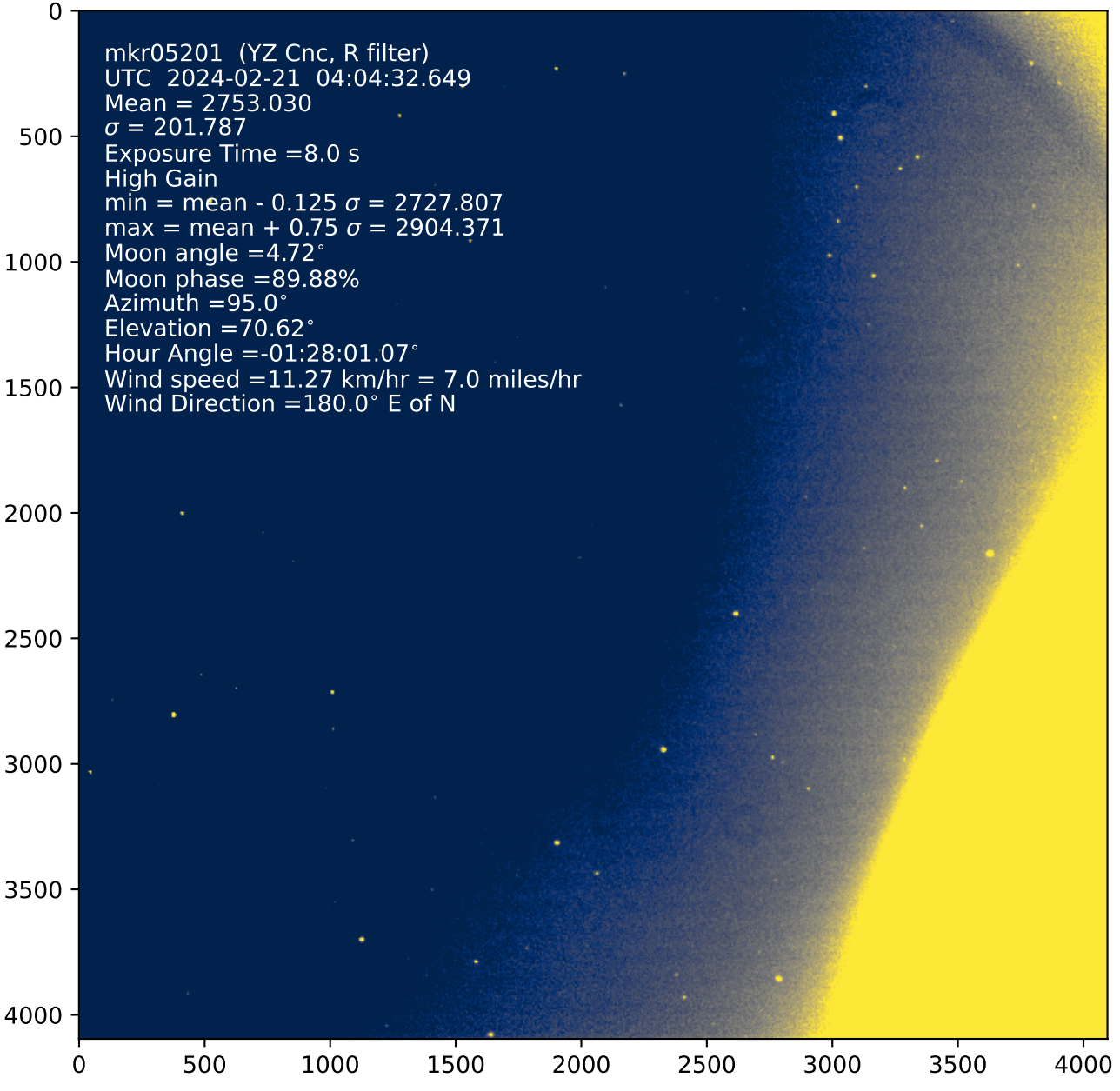
mkr05201 (YZ Cnc, R filter)
UTC 2024-02-21 04:04:32.649
Mean = 2753.030
σ = 201.787
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2727.807
max = mean + 0.75 σ = 2904.371
Moon angle =4.72°
Moon phase =89.88%
Azimuth =95.0°
Elevation =70.62°
Hour Angle =-01:28:01.07°
Wind speed =11.27 km/hr = 7.0 miles/hr
Wind Direction =180.0° E of N
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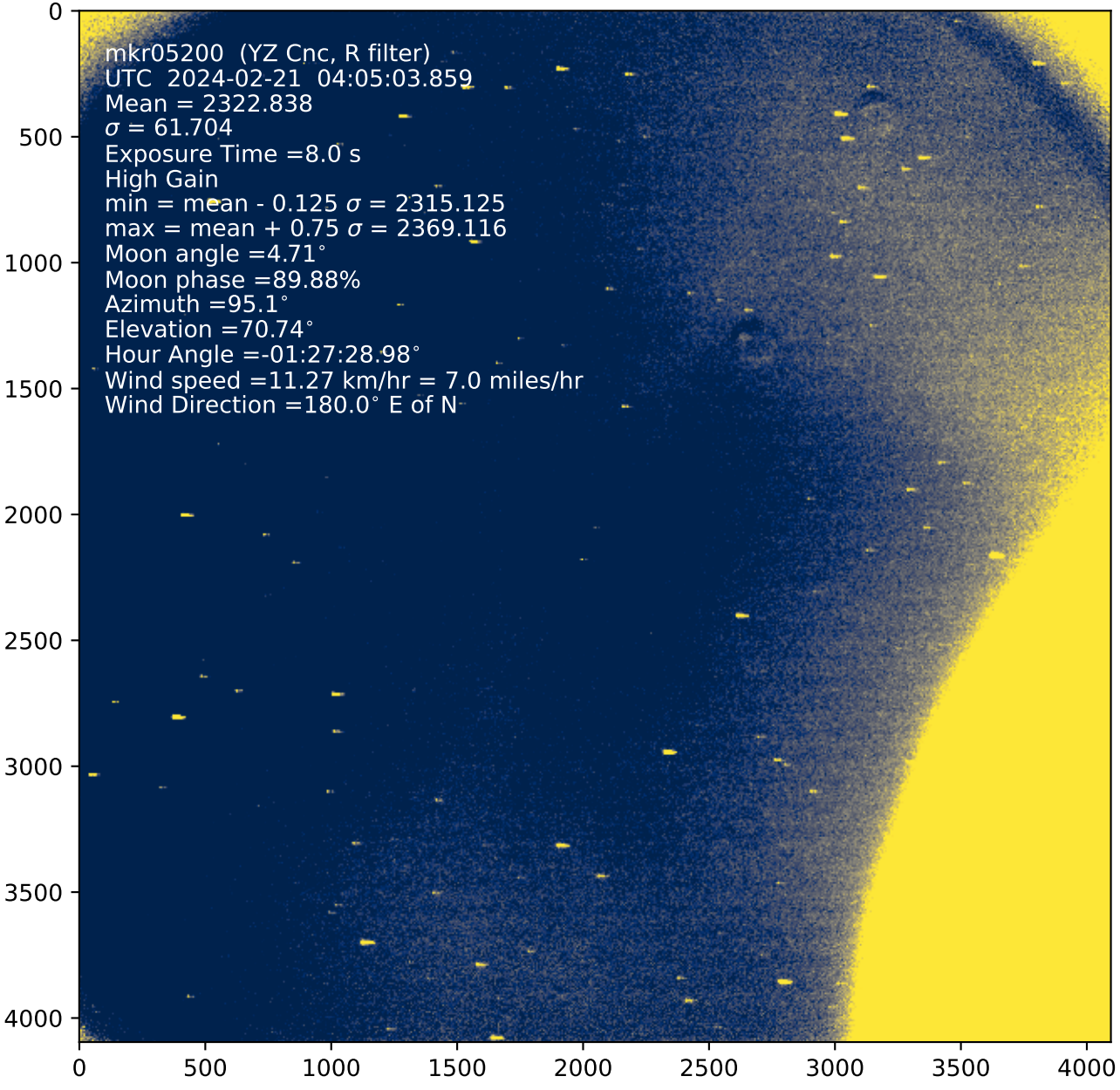
mkr05200 (YZ Cnc, R filter)
UTC 2024-02-21 04:05:03.859
Mean = 2322.838
σ = 61.704
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2315.125
max = mean + 0.75 σ = 2369.116
Moon angle =4.71°
Moon phase =89.88%
Azimuth =95.1°
Elevation =70.74°
Hour Angle =-01:27:28.98°
Wind speed =11.27 km/hr = 7.0 miles/hr
Wind Direction =180.0° E of N
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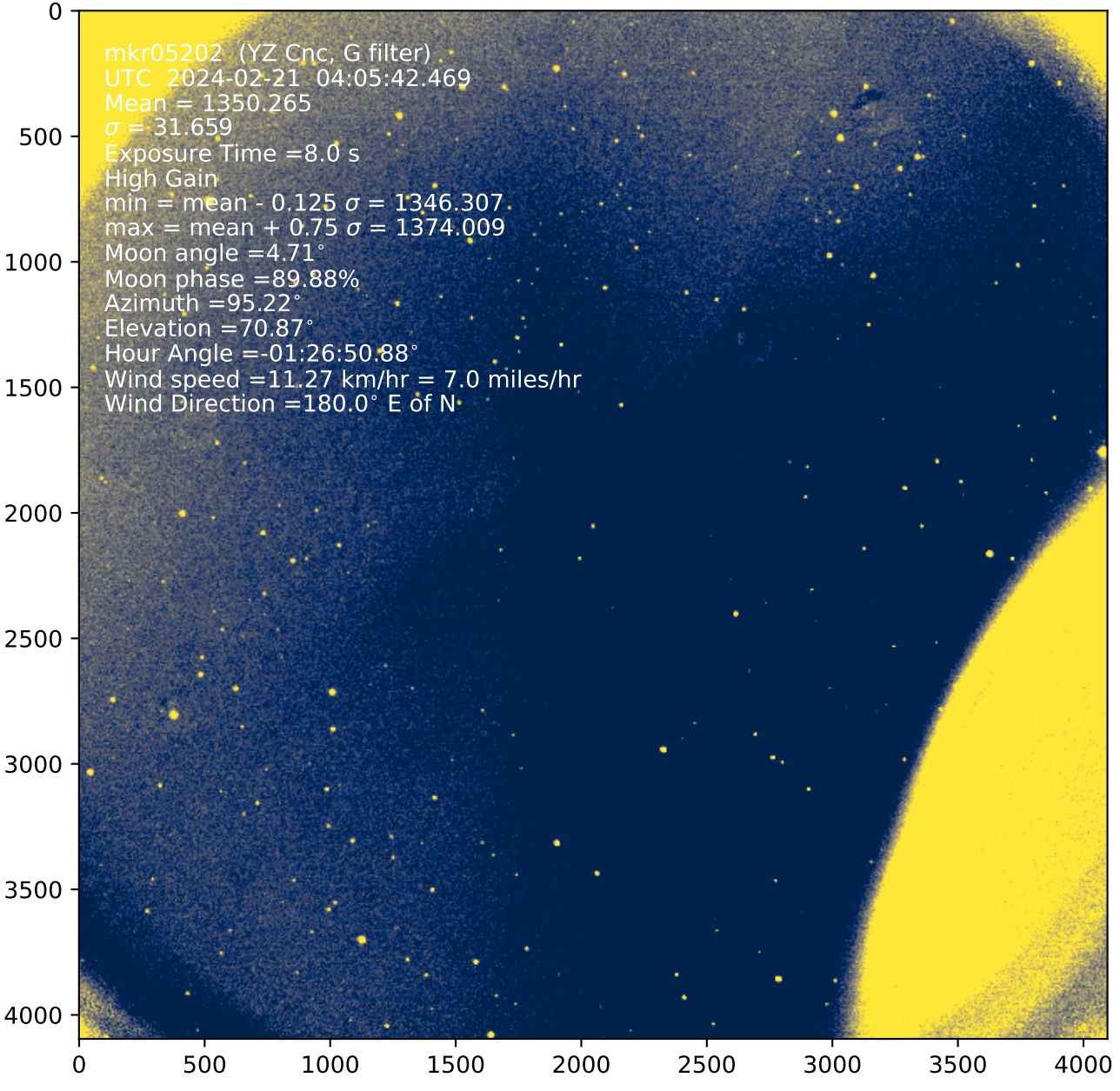
mkr05202 (YZ Cnc, G filter)
UTC 2024-02-21 04:05:42.469
Mean = 1350.265
σ = 31.659
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1346.307
max = mean + 0.75 σ = 1374.009
Moon angle =4.71°
Moon phase =89.88%
Azimuth =95.22°
Elevation =70.87°
Hour Angle =-01:26:50.88°
Wind speed =11.27 km/hr = 7.0 miles/hr
Wind Direction =180.0° E of N
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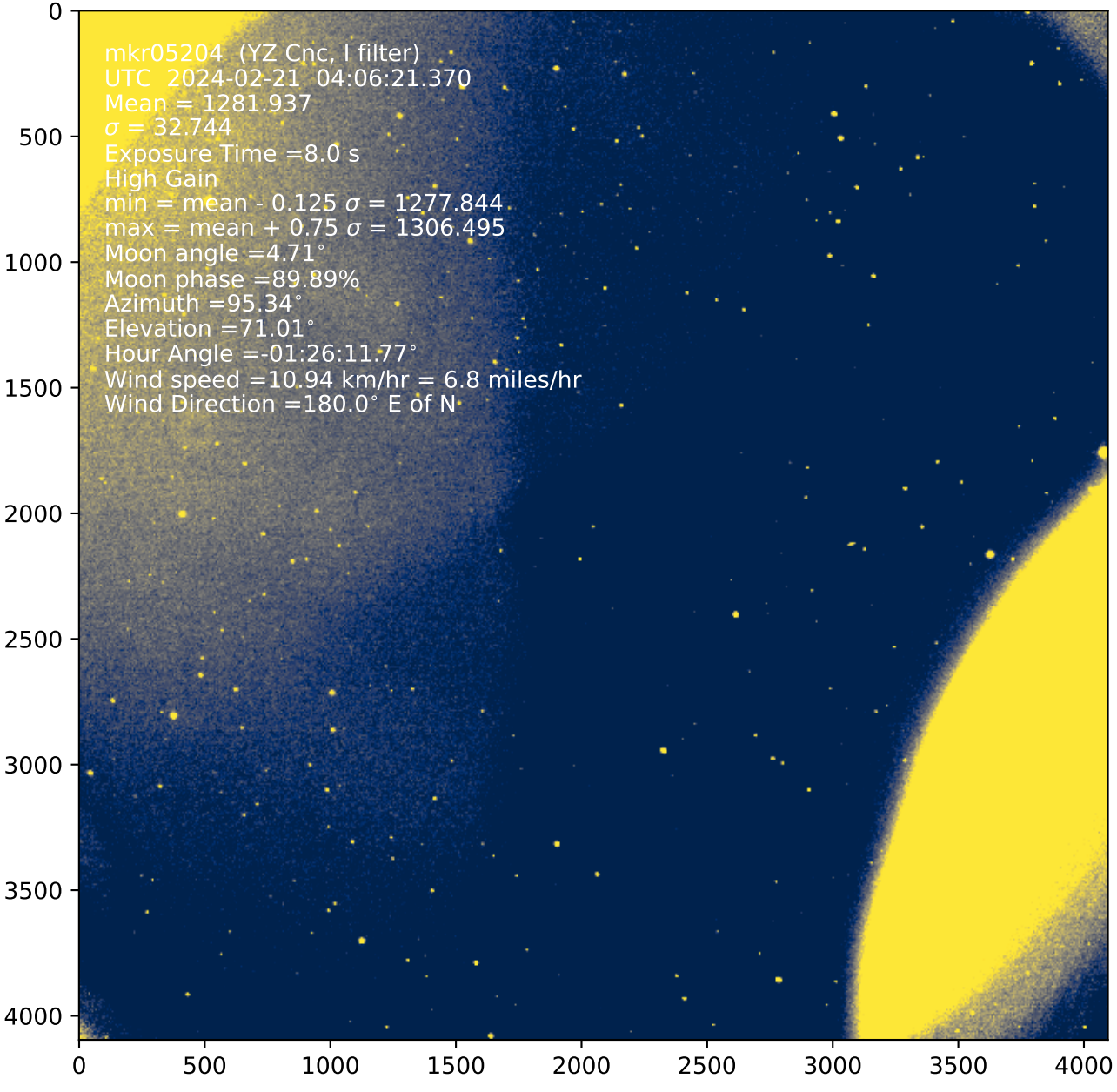
mkr05204 (YZ Cnc, I filter)
UTC 2024-02-21 04:06:21.370
Mean = 1281.937
σ = 32.744
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1277.844
max = mean + 0.75 σ = 1306.495
Moon angle =4.71°
Moon phase =89.89%
Azimuth =95.34°
Elevation =71.01°
Hour Angle =-01:26:11.77°
Wind speed =10.94 km/hr = 6.8 miles/hr
Wind Direction =180.0° E of N
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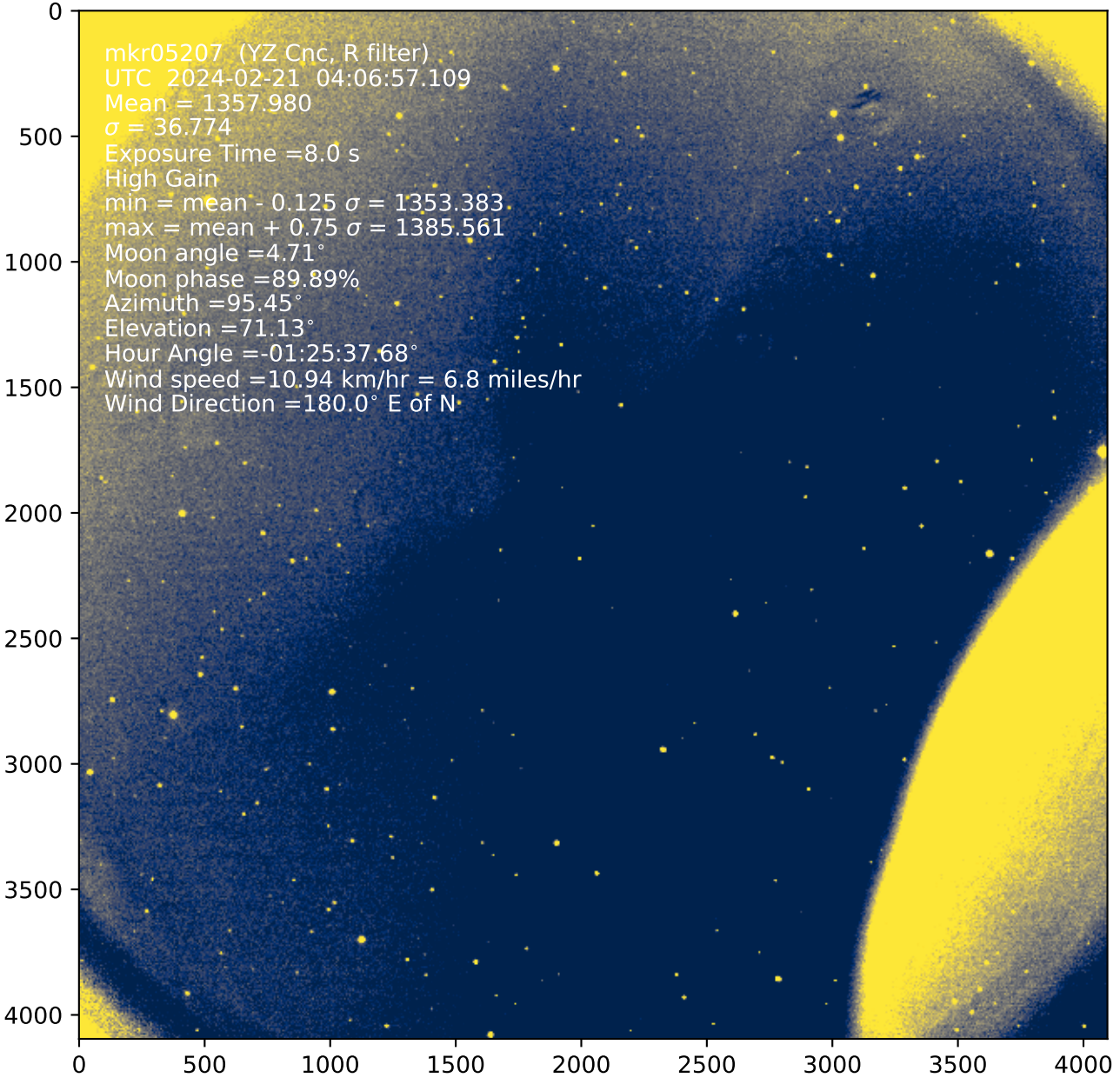
mkr05207 (YZ Cnc, R filter)
UTC 2024-02-21 04:06:57.109
Mean = 1357.980
σ = 36.774
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1353.383
max = mean + 0.75 σ = 1385.561
Moon angle =4.71°
Moon phase =89.89%
Azimuth =95.45°
Elevation =71.13°
Hour Angle =-01:25:37.68°
Wind speed =10.94 km/hr = 6.8 miles/hr
Wind Direction =180.0° E of N
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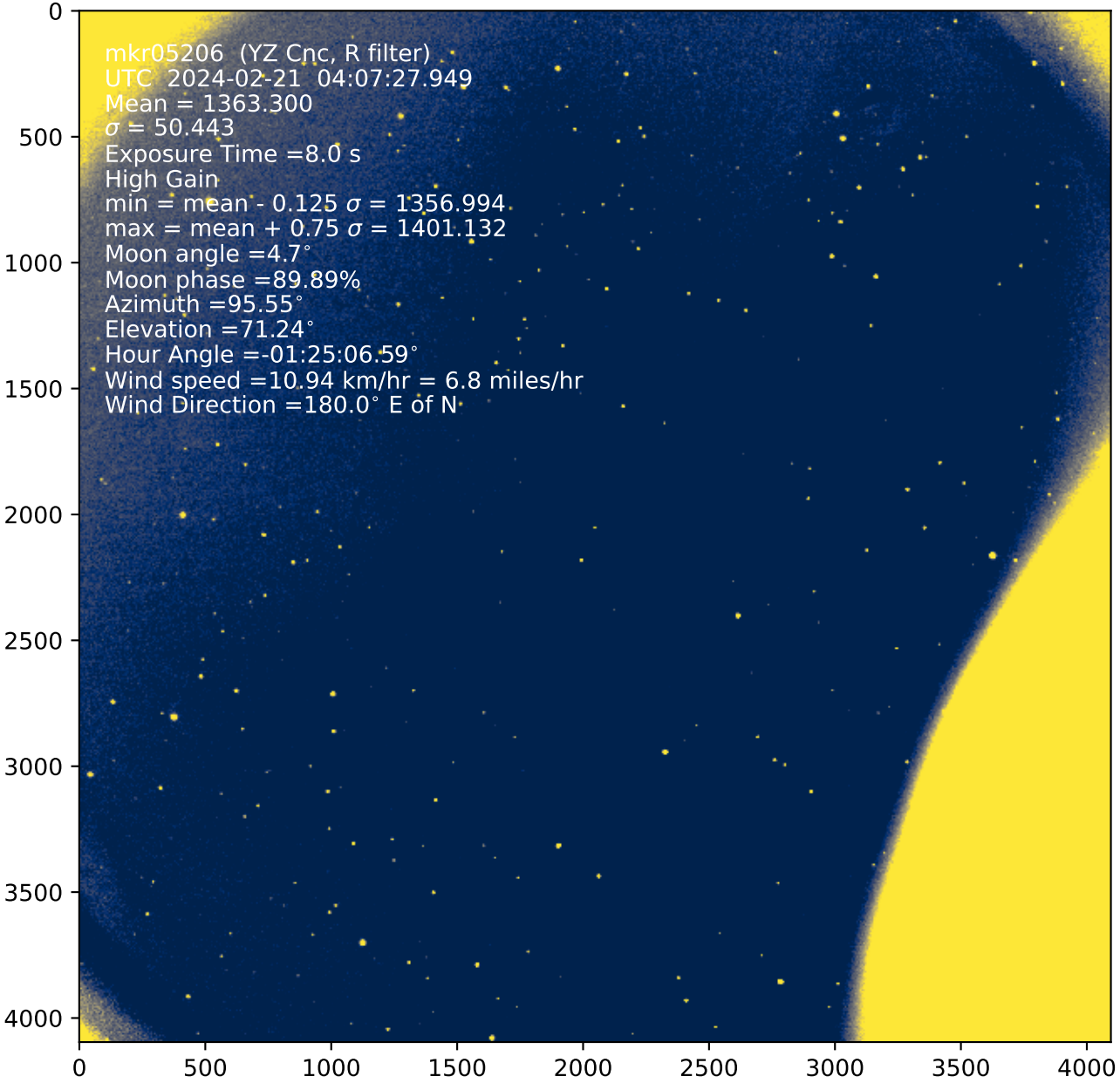
mkr05206 (YZ Cnc, R filter)
UTC 2024-02-21 04:07:27.949
Mean = 1363.300
σ = 50.443
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1356.994
max = mean + 0.75 σ = 1401.132
Moon angle =4.7°
Moon phase =89.89%
Azimuth =95.55°
Elevation =71.24°
Hour Angle =-01:25:06.59°
Wind speed =10.94 km/hr = 6.8 miles/hr
Wind Direction =180.0° E of N
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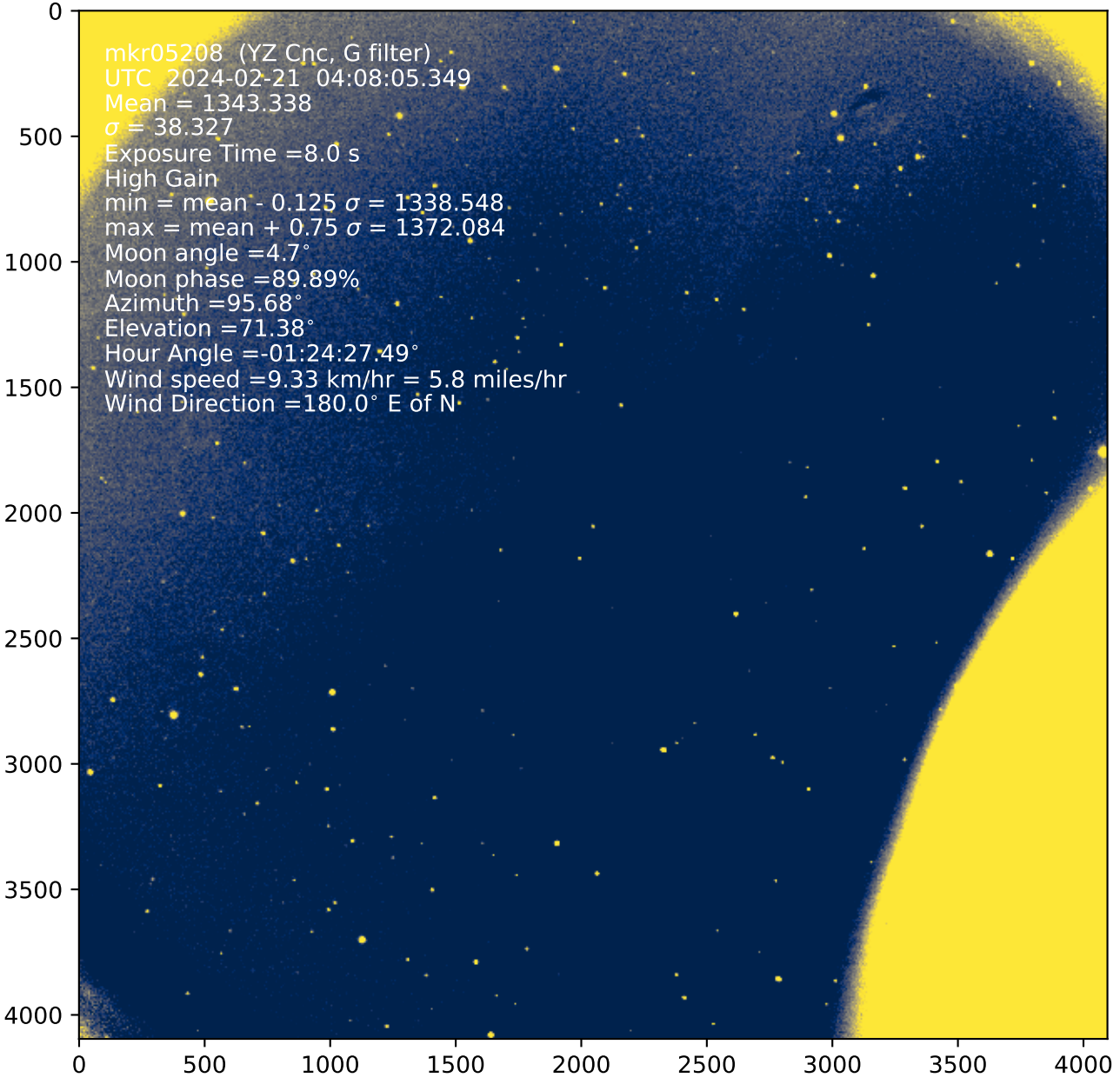
mkr05208 (YZ Cnc, G filter)
UTC 2024-02-21 04:08:05.349
Mean = 1343.338
σ = 38.327
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1338.548
max = mean + 0.75 σ = 1372.084
Moon angle =4.7°
Moon phase =89.89%
Azimuth =95.68°
Elevation =71.38°
Hour Angle =-01:24:27.49°
Wind speed =9.33 km/hr = 5.8 miles/hr
Wind Direction =180.0° E of N
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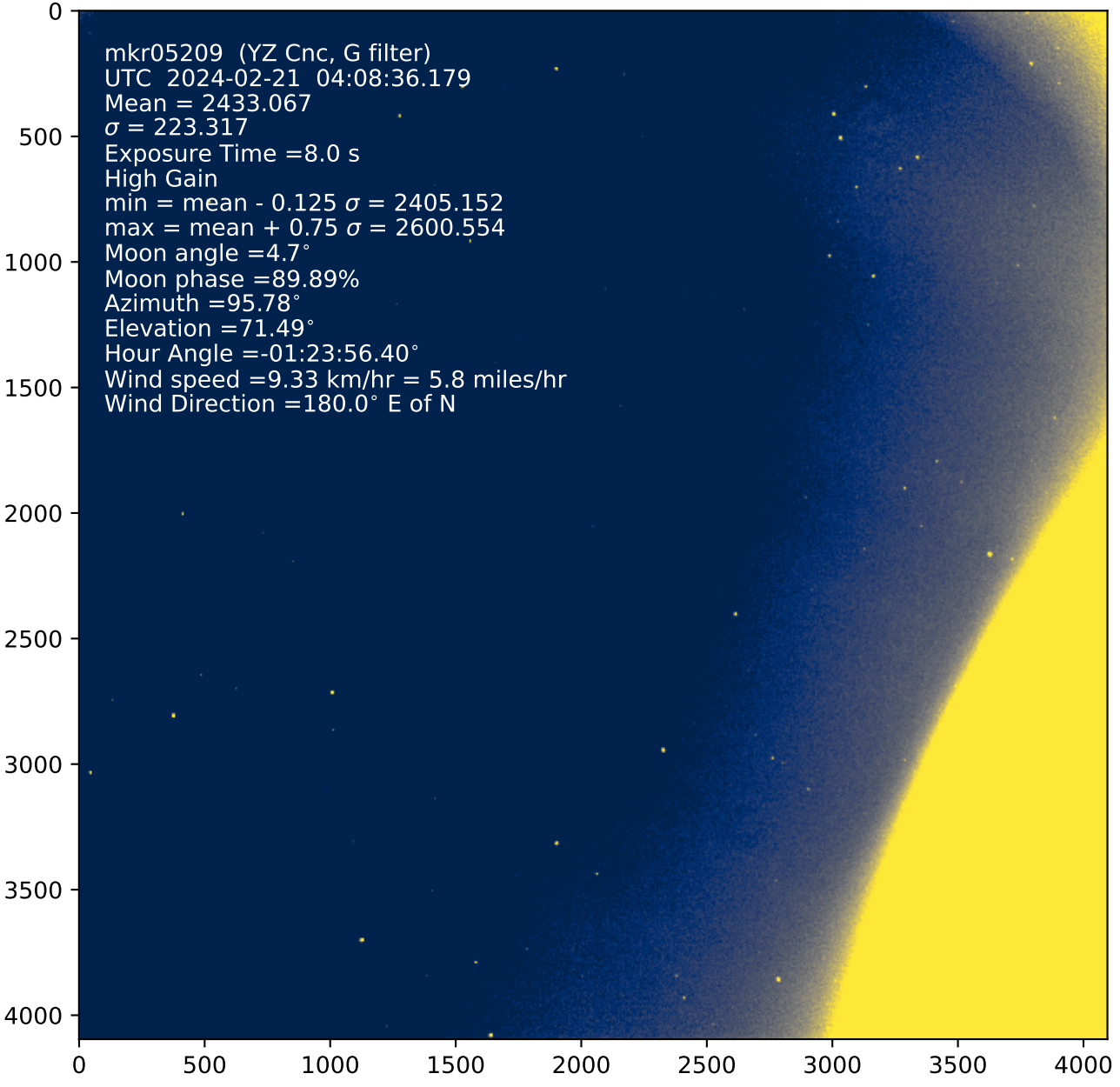
mkr05209 (YZ Cnc, G filter)
UTC 2024-02-21 04:08:36.179
Mean = 2433.067
σ = 223.317
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2405.152
max = mean + 0.75 σ = 2600.554
Moon angle =4.7°
Moon phase =89.89%
Azimuth =95.78°
Elevation =71.49°
Hour Angle =-01:23:56.40°
Wind speed =9.33 km/hr = 5.8 miles/hr
Wind Direction =180.0° E of N
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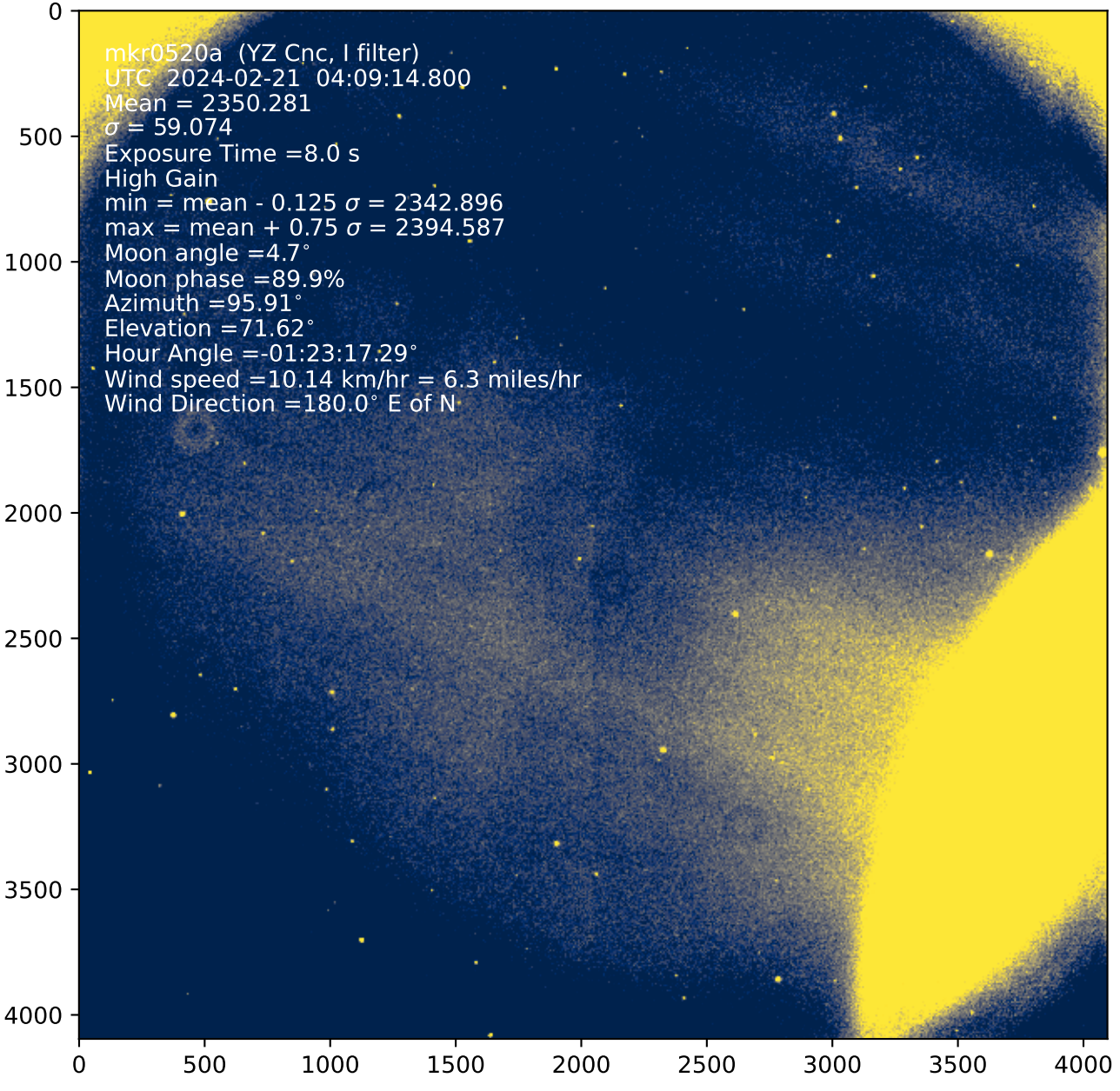
mkr0520a (YZ Cnc, I filter)
UTC 2024-02-21 04:09:14.800
Mean = 2350.281
σ = 59.074
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2342.896
max = mean + 0.75 σ = 2394.587
Moon angle =4.7°
Moon phase =89.9%
Azimuth =95.91°
Elevation =71.62°
Hour Angle =-01:23:17.29°
Wind speed =10.14 km/hr = 6.3 miles/hr
Wind Direction =180.0° E of N
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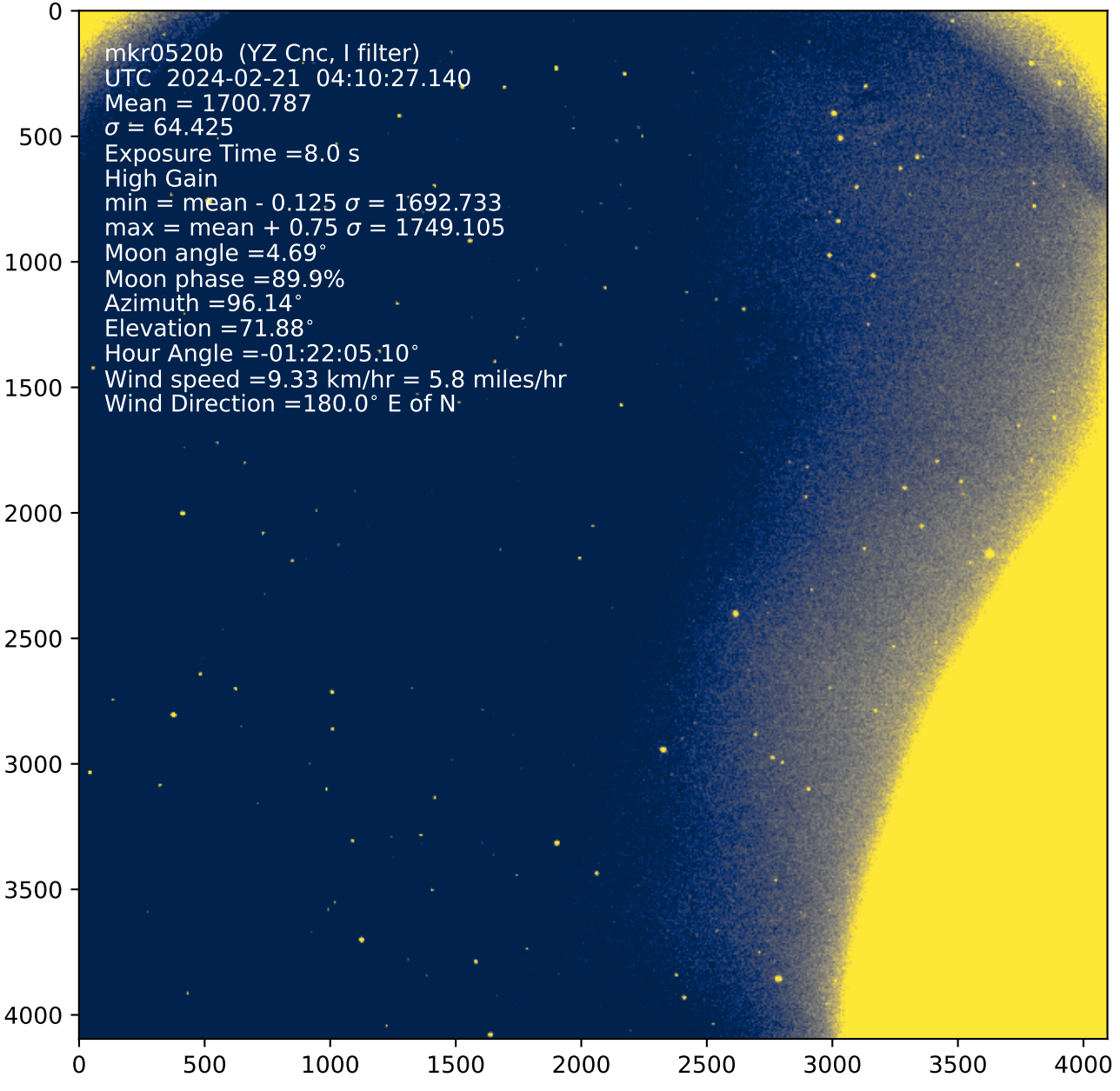
mkr0520b (YZ Cnc, I filter)
UTC 2024-02-21 04:10:27.140
Mean = 1700.787
σ = 64.425
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1692.733
max = mean + 0.75 σ = 1749.105
Moon angle =4.69°
Moon phase =89.9%
Azimuth =96.14°
Elevation =71.88°
Hour Angle =-01:22:05.10°
Wind speed =9.33 km/hr = 5.8 miles/hr
Wind Direction =180.0° E of N
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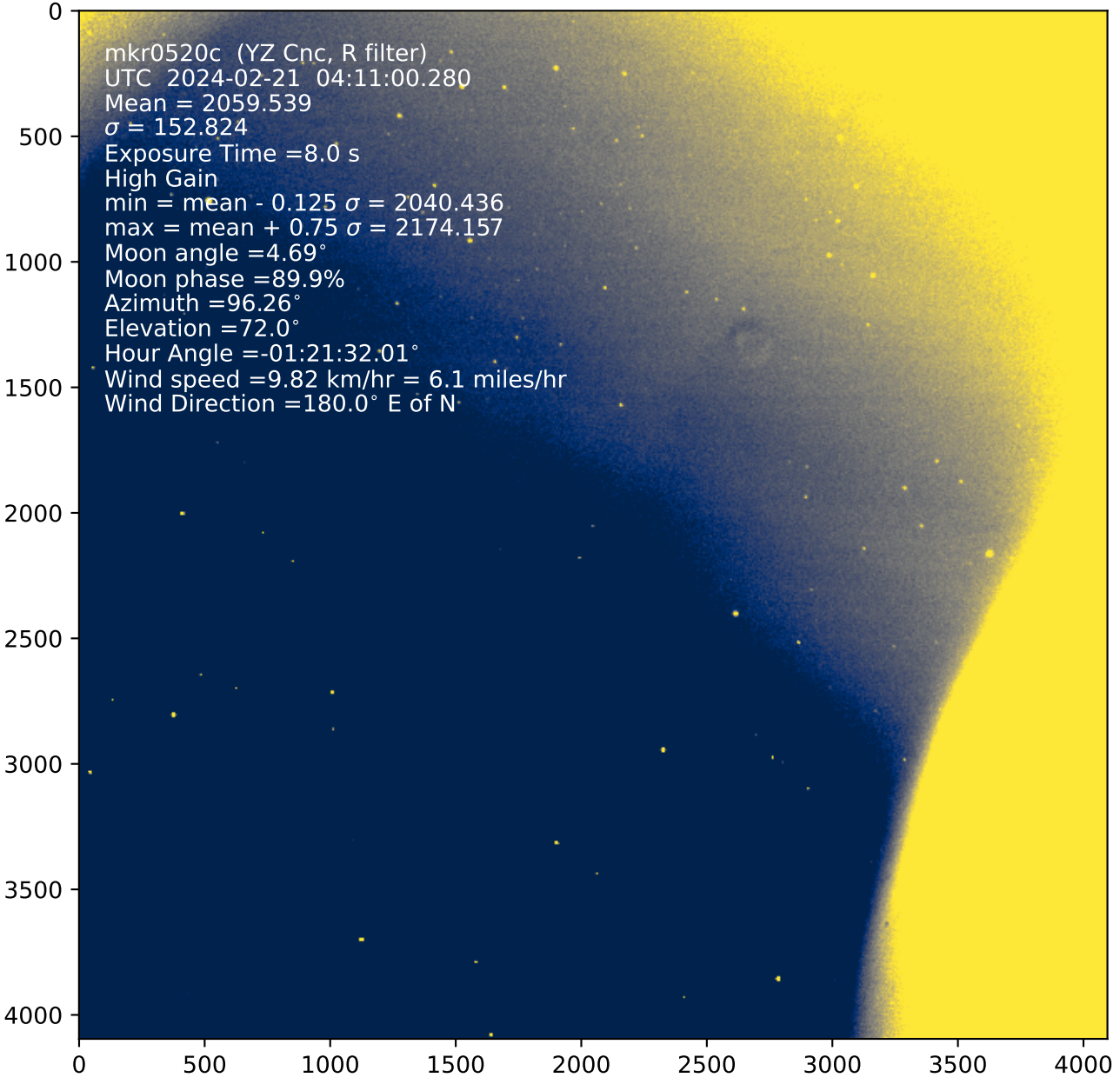
mkr0520c (YZ Cnc, R filter)
UTC 2024-02-21 04:11:00.280
Mean = 2059.539
σ = 152.824
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2040.436
max = mean + 0.75 σ = 2174.157
Moon angle =4.69°
Moon phase =89.9%
Azimuth =96.26°
Elevation =72.0°
Hour Angle =-01:21:32.01°
Wind speed =9.82 km/hr = 6.1 miles/hr
Wind Direction =180.0° E of N
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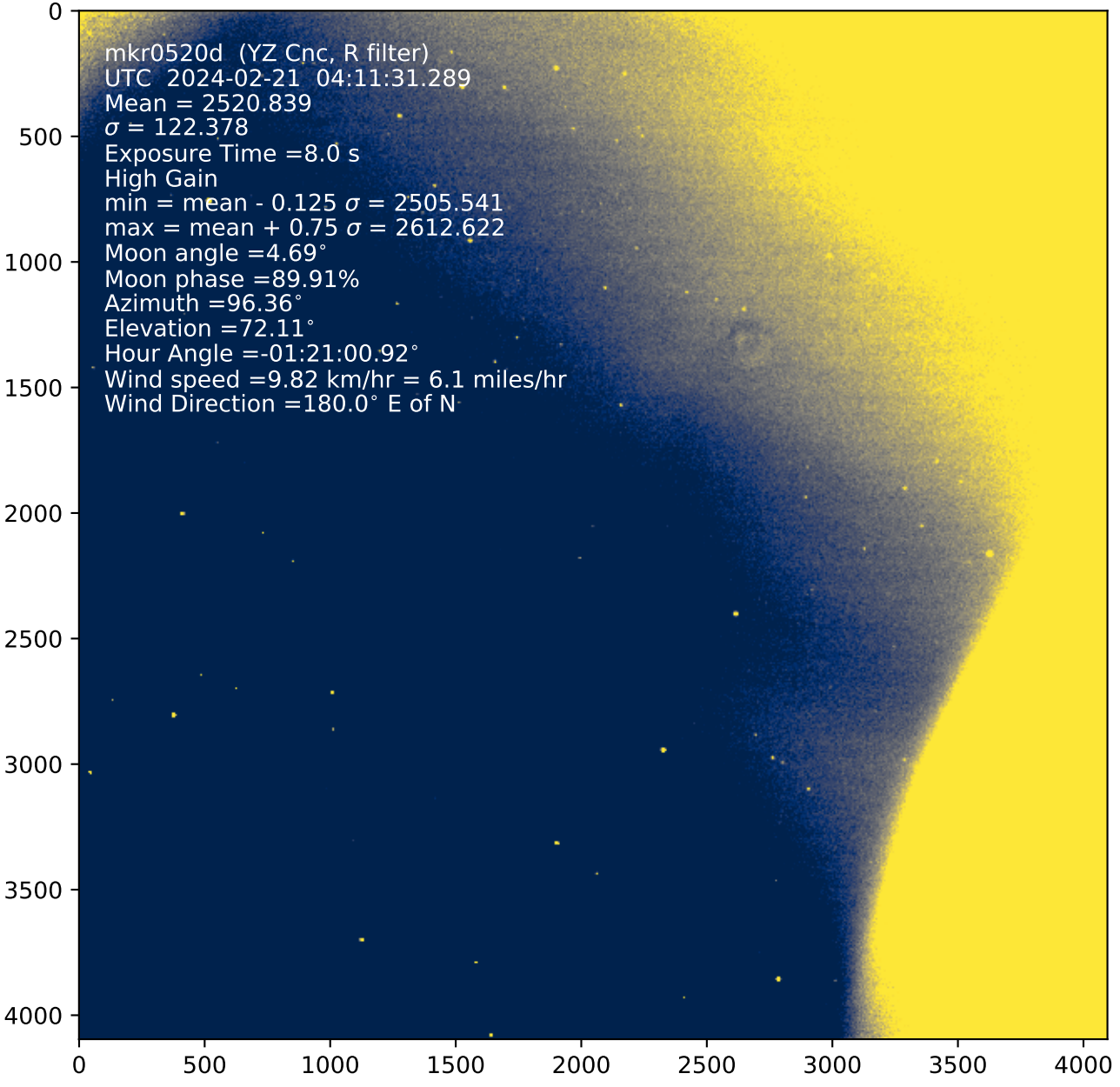
mkr0520d (YZ Cnc, R filter)
UTC 2024-02-21 04:11:31.289
Mean = 2520.839
σ = 122.378
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2505.541
max = mean + 0.75 σ = 2612.622
Moon angle =4.69°
Moon phase =89.91%
Azimuth =96.36°
Elevation =72.11°
Hour Angle =-01:21:00.92°
Wind speed =9.82 km/hr = 6.1 miles/hr
Wind Direction =180.0° E of N
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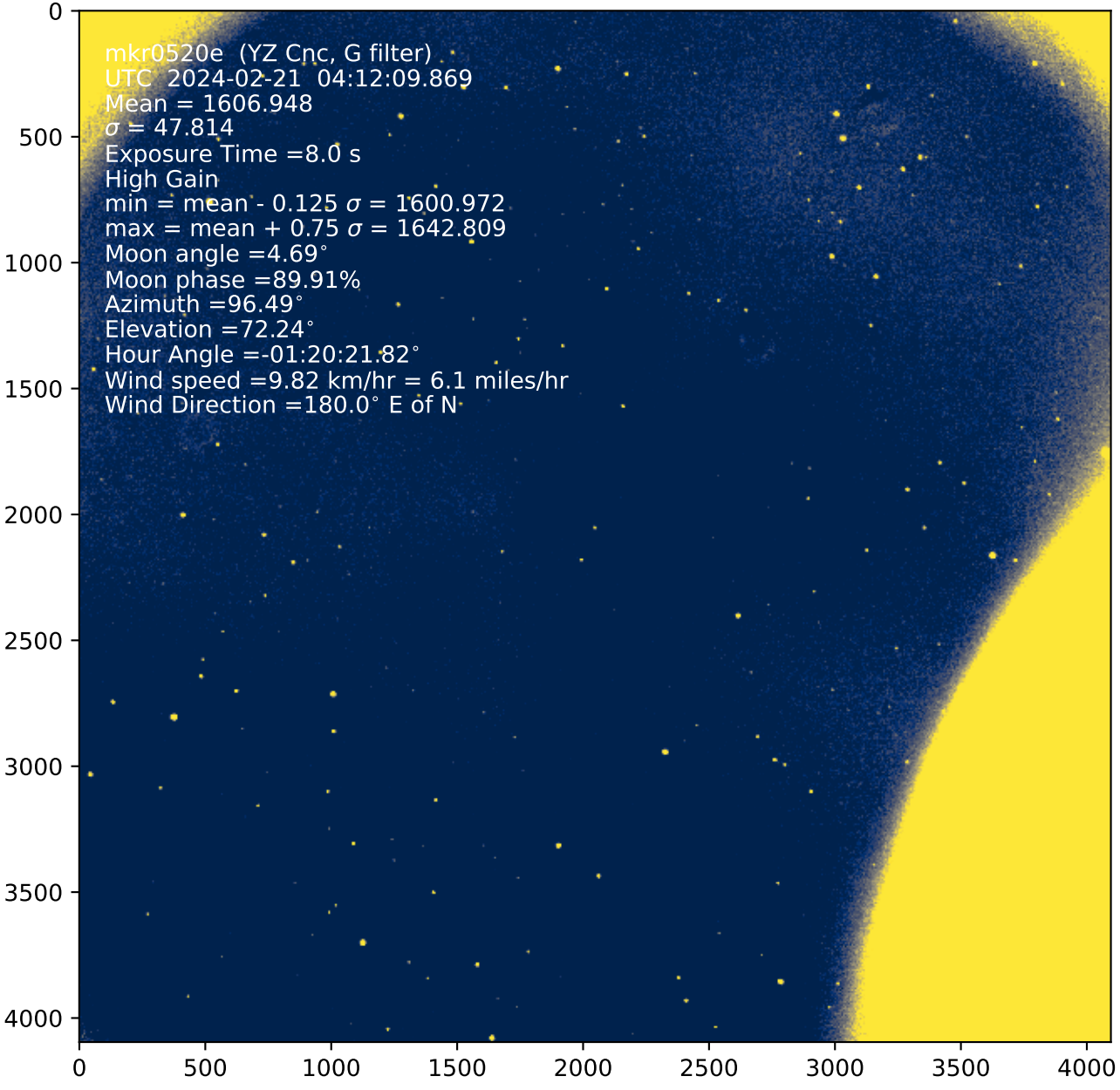
mkr0520e (YZ Cnc, G filter)
UTC 2024-02-21 04:12:09.869
Mean = 1606.948
σ = 47.814
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1600.972
max = mean + 0.75 σ = 1642.809
Moon angle =4.69°
Moon phase =89.91%
Azimuth =96.49°
Elevation =72.24°
Hour Angle =-01:20:21.82°
Wind speed =9.82 km/hr = 6.1 miles/hr
Wind Direction =180.0° E of N
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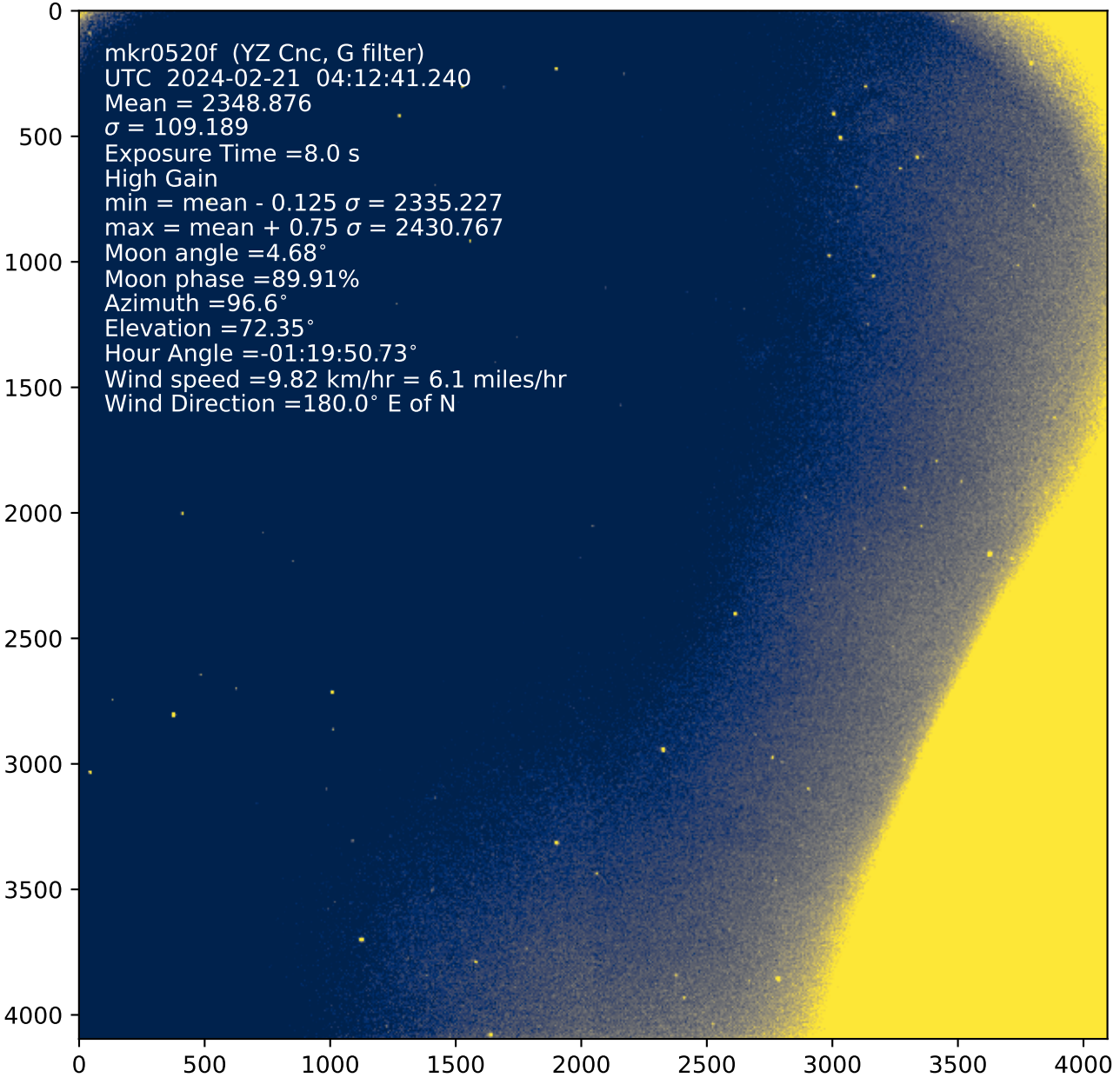
mkr0520f (YZ Cnc, G filter)
UTC 2024-02-21 04:12:41.240
Mean = 2348.876
σ = 109.189
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2335.227
max = mean + 0.75 σ = 2430.767
Moon angle =4.68°
Moon phase =89.91%
Azimuth =96.6°
Elevation =72.35°
Hour Angle =-01:19:50.73°
Wind speed =9.82 km/hr = 6.1 miles/hr
Wind Direction =180.0° E of N
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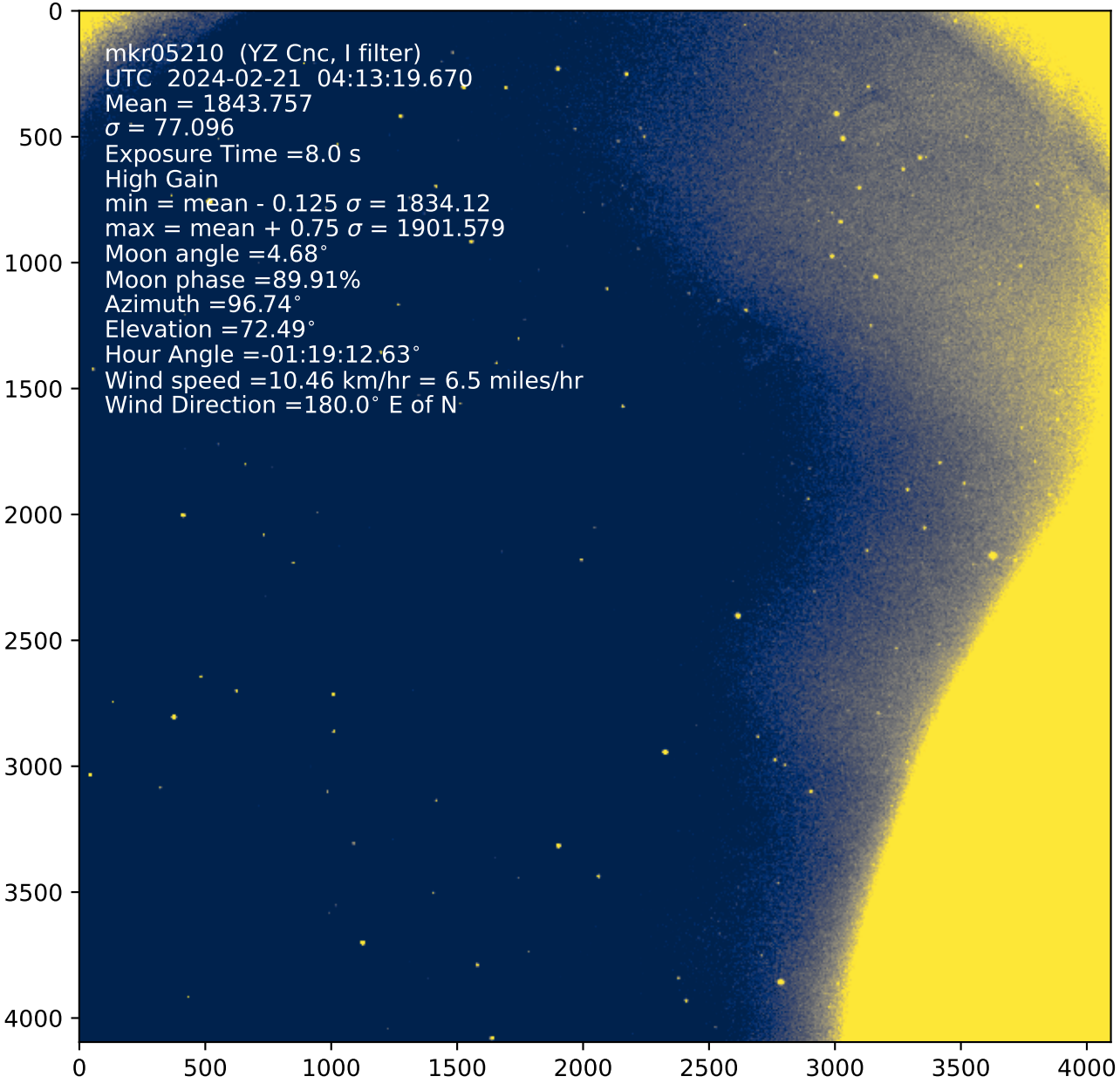
mkr05210 (YZ Cnc, I filter)
UTC 2024-02-21 04:13:19.670
Mean = 1843.757
σ = 77.096
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1834.12
max = mean + 0.75 σ = 1901.579
Moon angle =4.68°
Moon phase =89.91%
Azimuth =96.74°
Elevation =72.49°
Hour Angle =-01:19:12.63°
Wind speed =10.46 km/hr = 6.5 miles/hr
Wind Direction =180.0° E of N
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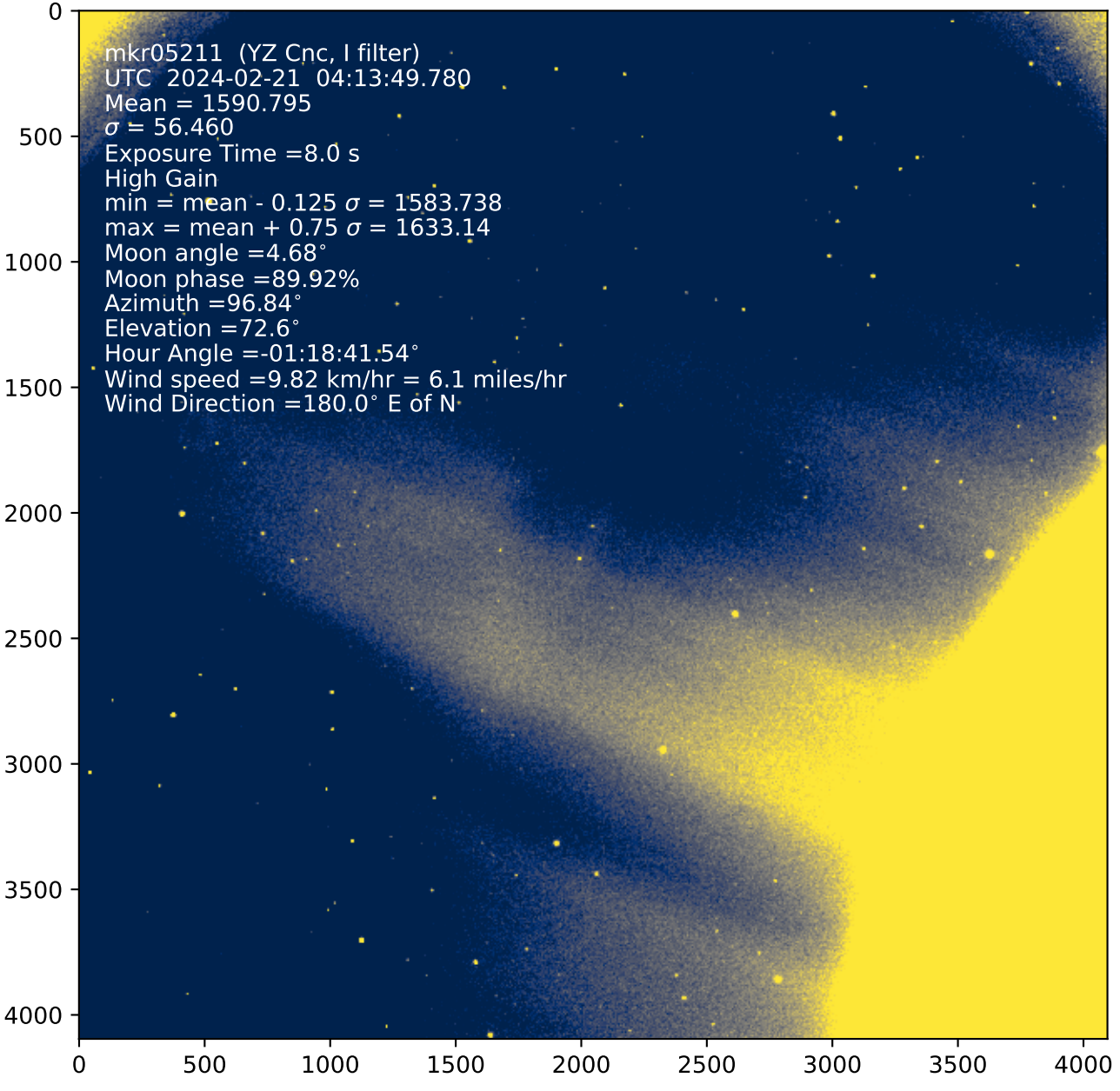
mkr05211 (YZ Cnc, I filter)
UTC 2024-02-21 04:13:49.780
Mean = 1590.795
σ = 56.460
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1583.738
max = mean + 0.75 σ = 1633.14
Moon angle =4.68˚
Moon phase =89.92%
Azimuth =96.84˚
Elevation =72.6˚
Hour Angle =-01:18:41.54˚
Wind speed =9.82 km/hr = 6.1 miles/hr
Wind Direction =180.0˚ E of N
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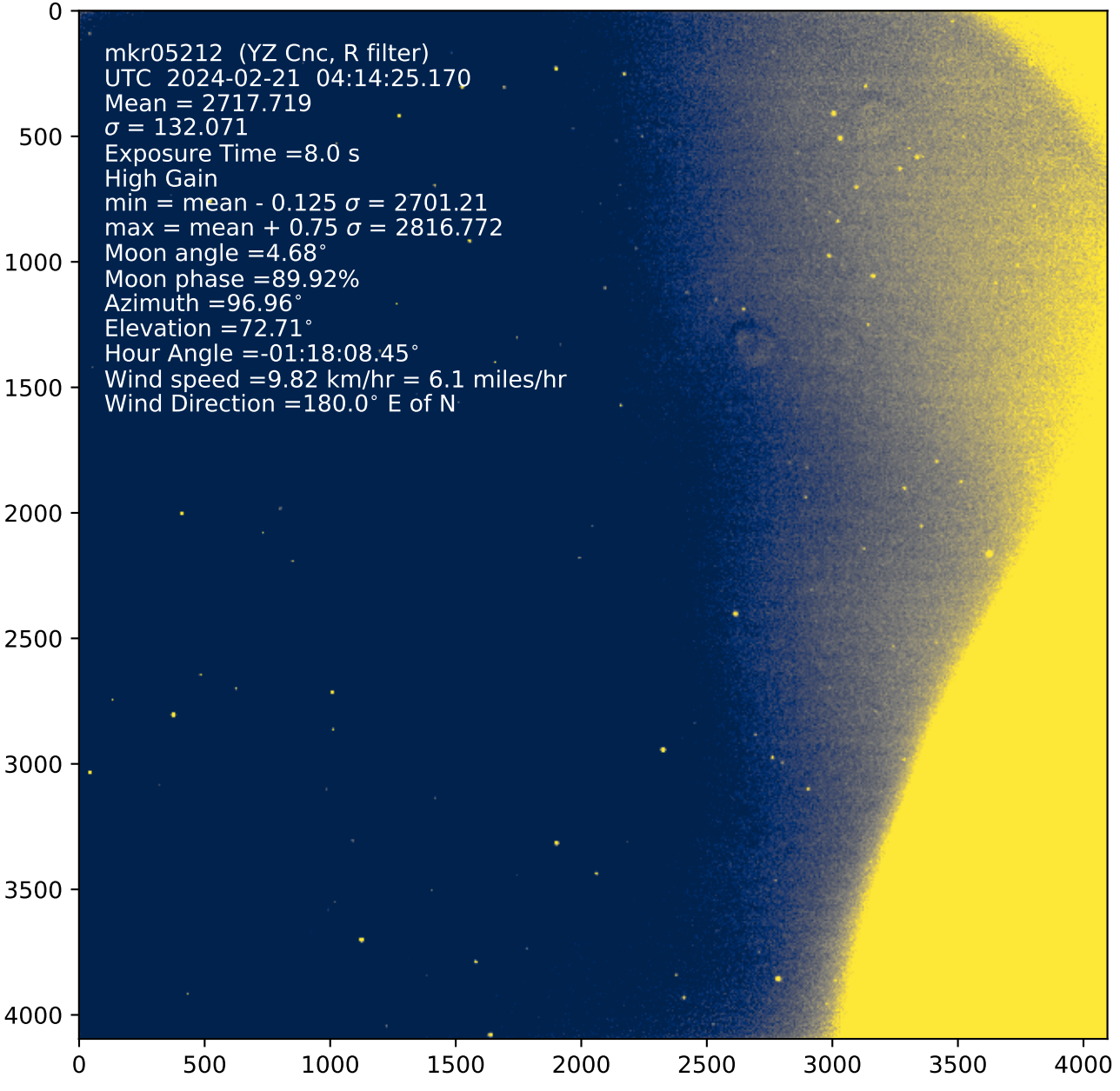
mkr05212 (YZ Cnc, R filter)
UTC 2024-02-21 04:14:25.170
Mean = 2717.719
σ = 132.071
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2701.21
max = mean + 0.75 σ = 2816.772
Moon angle =4.68°
Moon phase =89.92%
Azimuth =96.96°
Elevation =72.71°
Hour Angle =-01:18:08.45°
Wind speed =9.82 km/hr = 6.1 miles/hr
Wind Direction =180.0° E of N
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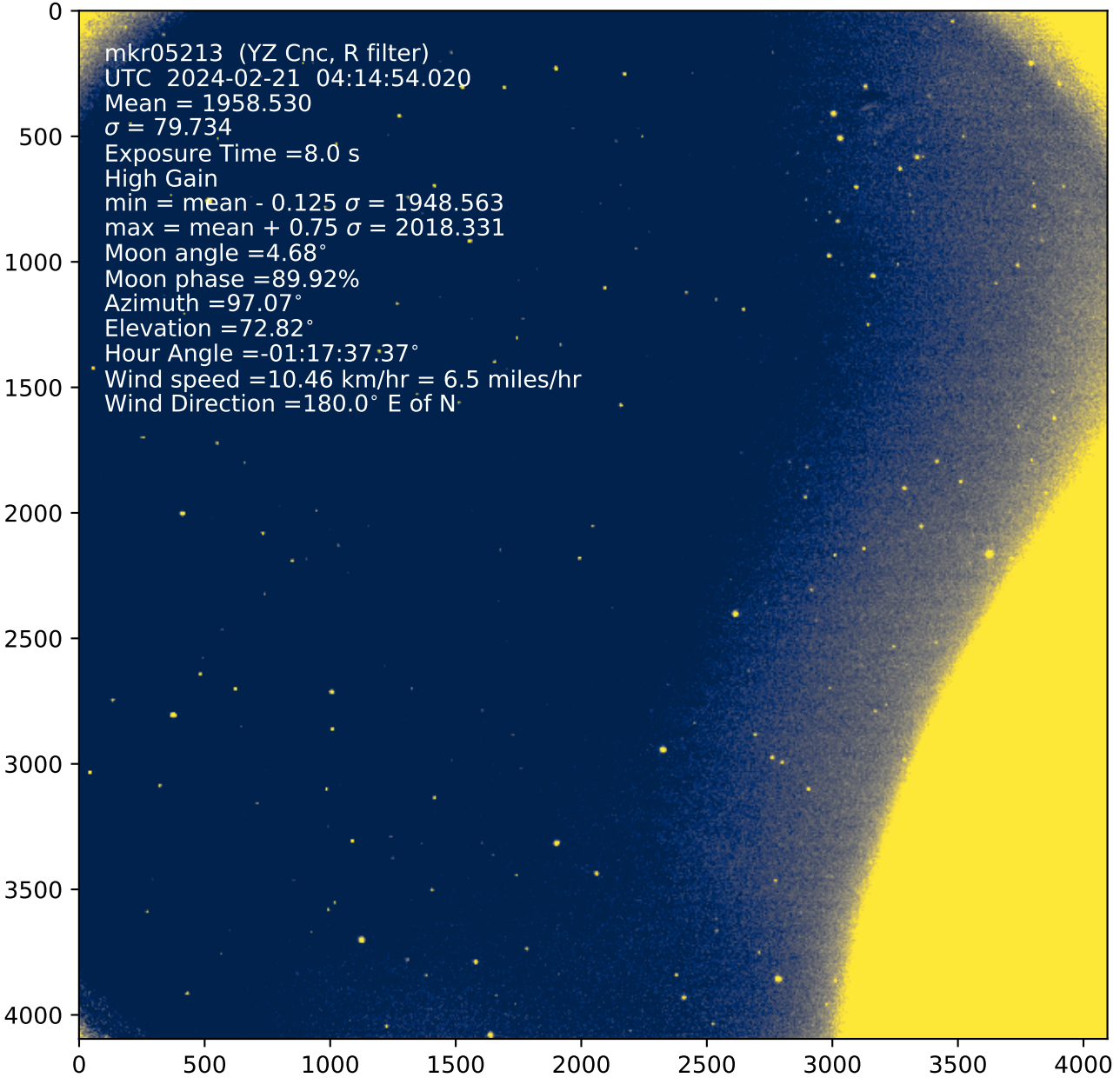
mkr05213 (YZ Cnc, R filter)
UTC 2024-02-21 04:14:54.020
Mean = 1958.530
σ = 79.734
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1948.563
max = mean + 0.75 σ = 2018.331
Moon angle =4.68°
Moon phase =89.92%
Azimuth =97.07°
Elevation =72.82°
Hour Angle =-01:17:37.37°
Wind speed =10.46 km/hr = 6.5 miles/hr
Wind Direction =180.0° E of N
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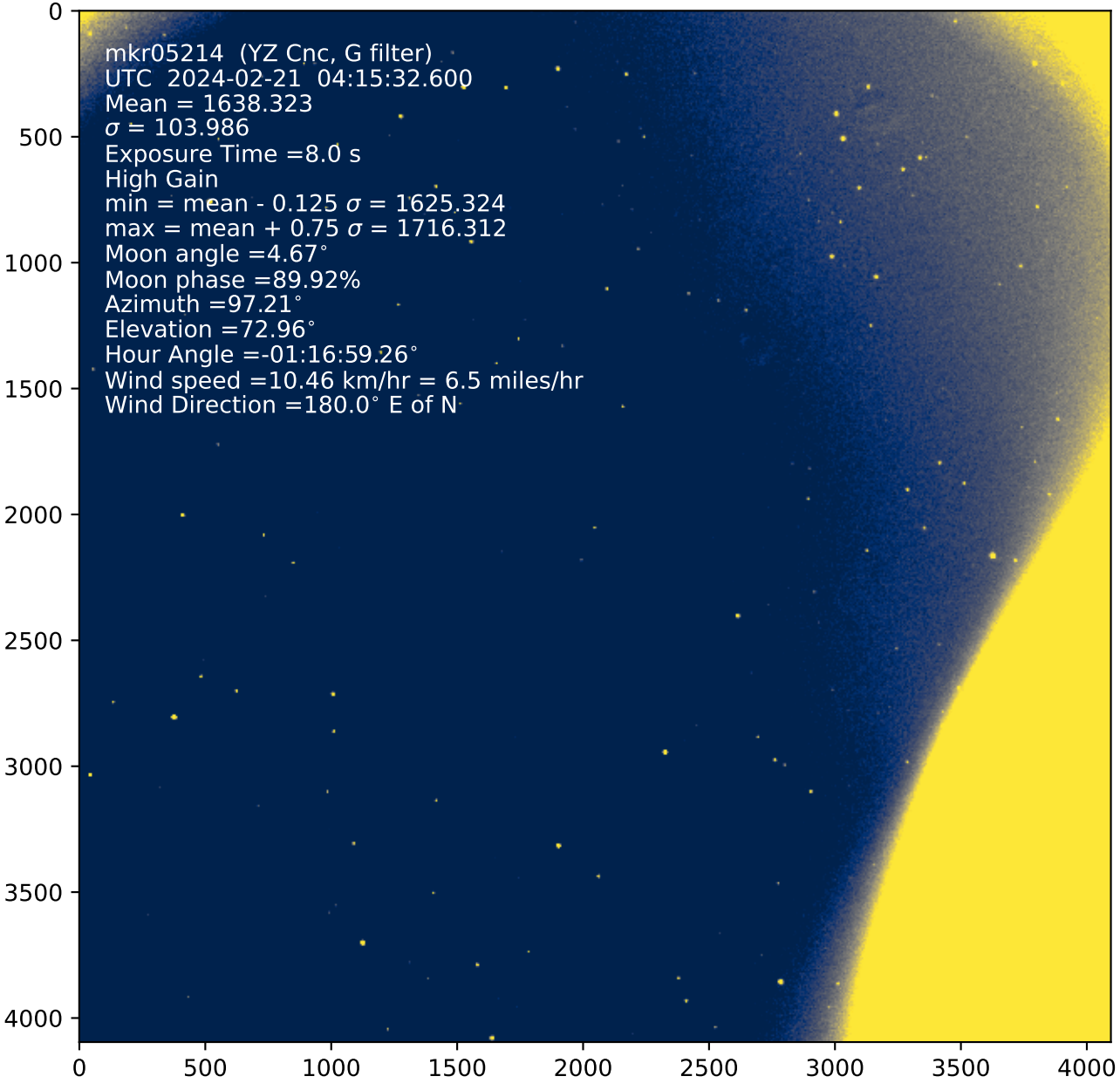
mkr05214 (YZ Cnc, G filter)
UTC 2024-02-21 04:15:32.600
Mean = 1638.323
σ = 103.986
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1625.324
max = mean + 0.75 σ = 1716.312
Moon angle =4.67°
Moon phase =89.92%
Azimuth =97.21°
Elevation =72.96°
Hour Angle =-01:16:59.26°
Wind speed =10.46 km/hr = 6.5 miles/hr
Wind Direction =180.0° E of N
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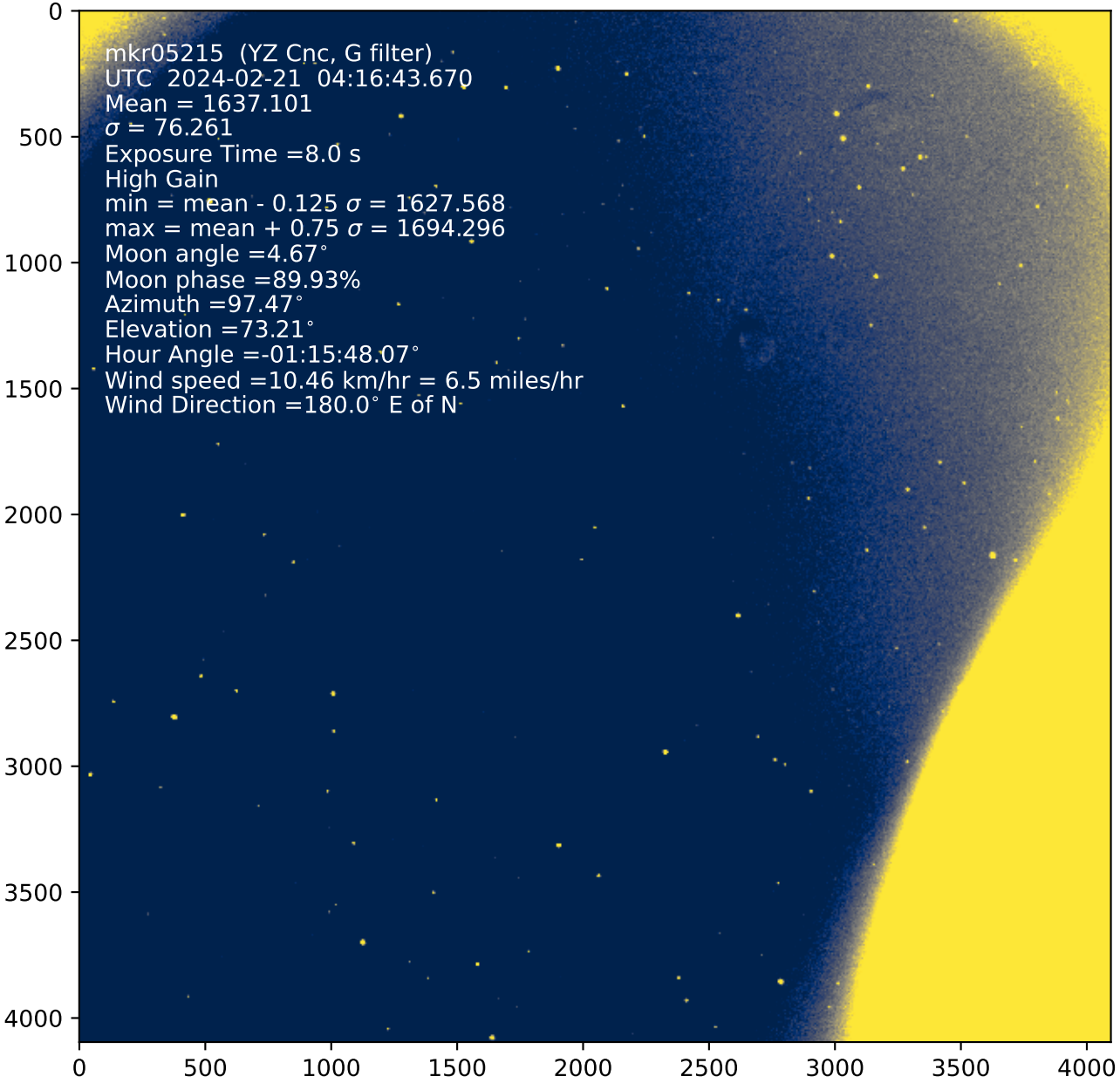
mkr05215 (YZ Cnc, G filter)
UTC 2024-02-21 04:16:43.670
Mean = 1637.101
σ = 76.261
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1627.568
max = mean + 0.75 σ = 1694.296
Moon angle =4.67°
Moon phase =89.93%
Azimuth =97.47°
Elevation =73.21°
Hour Angle =-01:15:48.07°
Wind speed =10.46 km/hr = 6.5 miles/hr
Wind Direction =180.0° E of N
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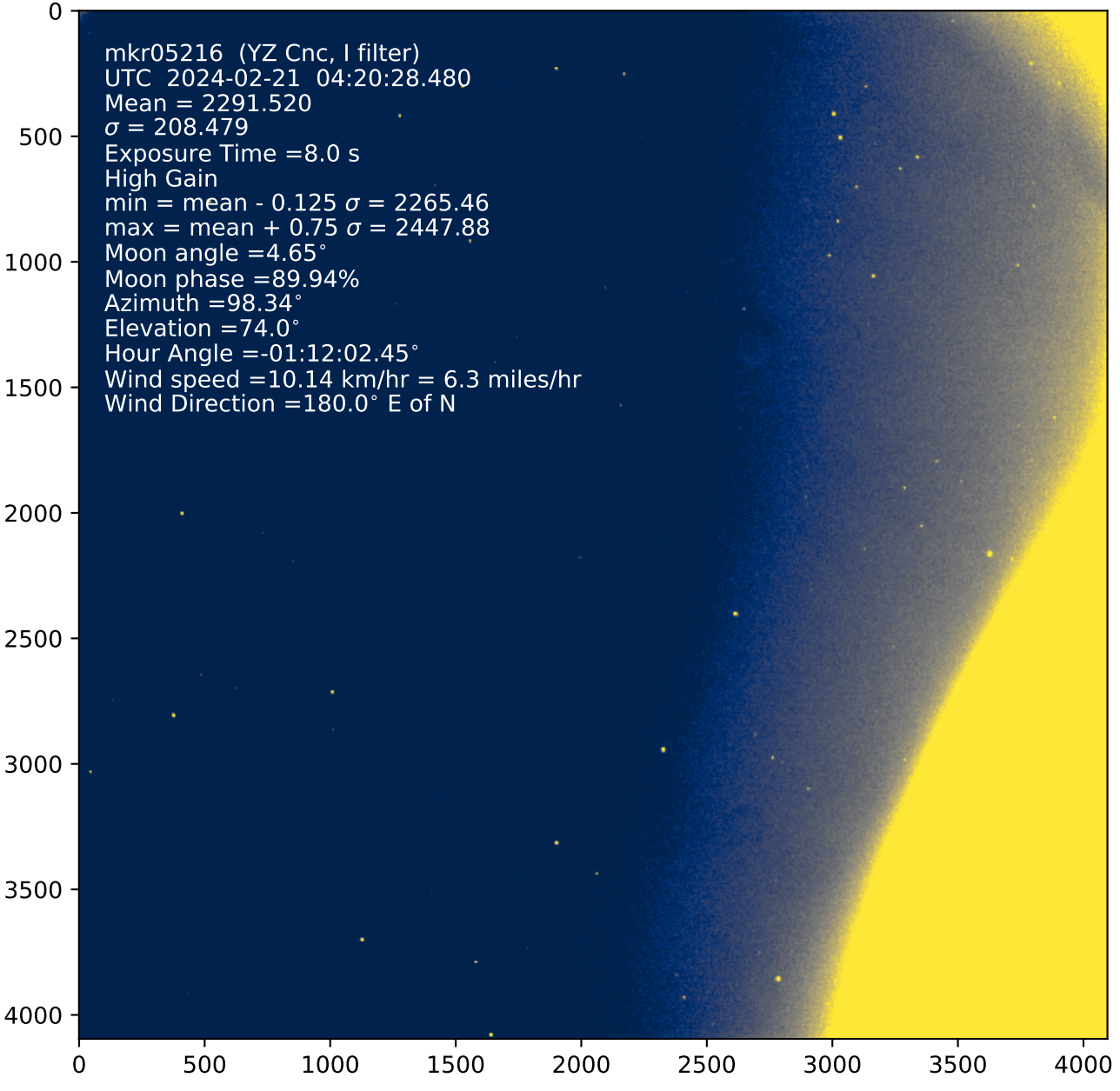
mkr05216 (YZ Cnc, I filter)
UTC 2024-02-21 04:20:28.480
Mean = 2291.520
σ = 208.479
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2265.46
max = mean + 0.75 σ = 2447.88
Moon angle =4.65°
Moon phase =89.94%
Azimuth =98.34°
Elevation =74.0°
Hour Angle =-01:12:02.45°
Wind speed =10.14 km/hr = 6.3 miles/hr
Wind Direction =180.0° E of N
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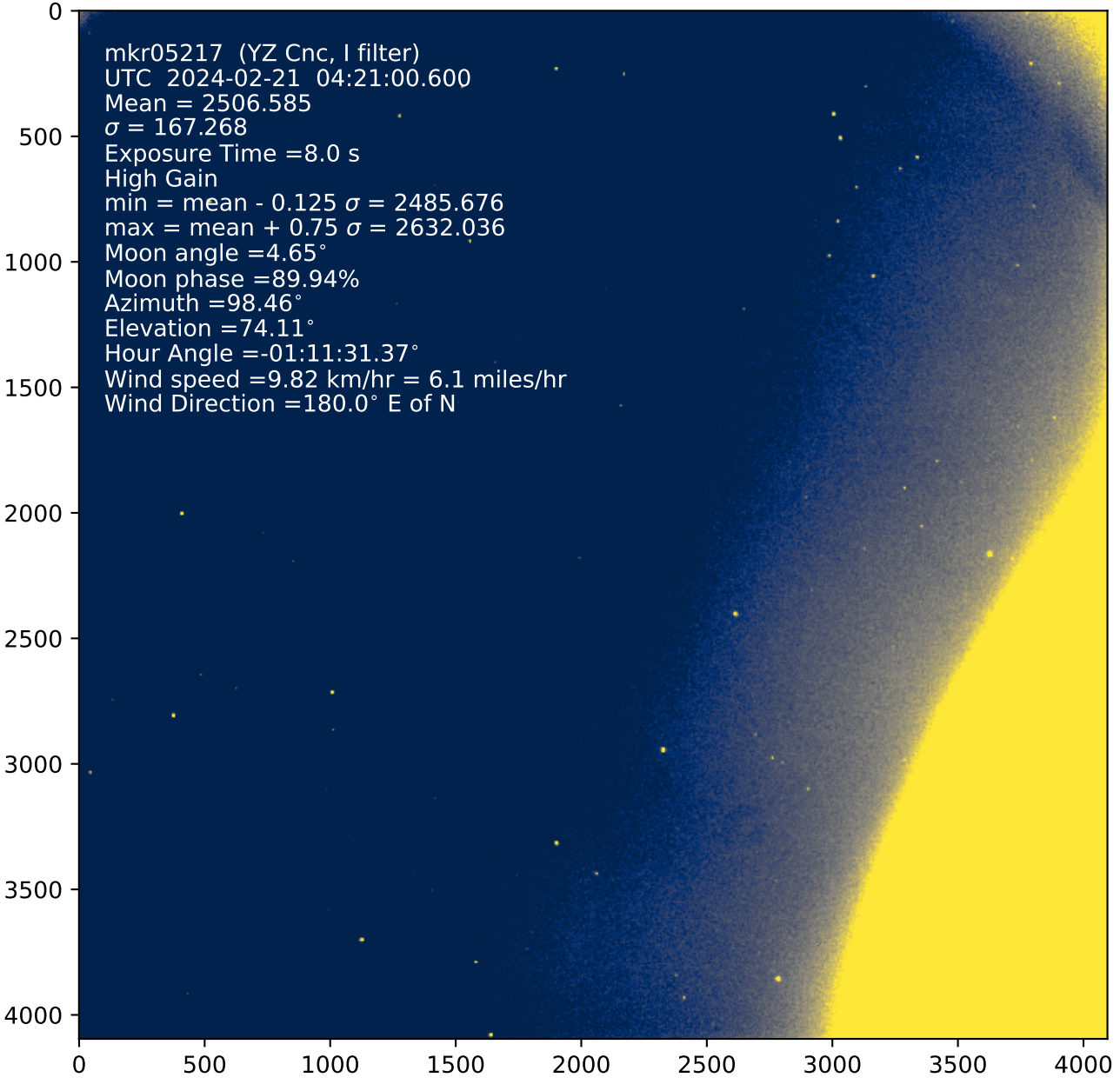
mkr05217 (YZ Cnc, I filter)
UTC 2024-02-21 04:21:00.600
Mean = 2506.585
σ = 167.268
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2485.676
max = mean + 0.75 σ = 2632.036
Moon angle =4.65°
Moon phase =89.94%
Azimuth =98.46°
Elevation =74.11°
Hour Angle =-01:11:31.37°
Wind speed =9.82 km/hr = 6.1 miles/hr
Wind Direction =180.0° E of N
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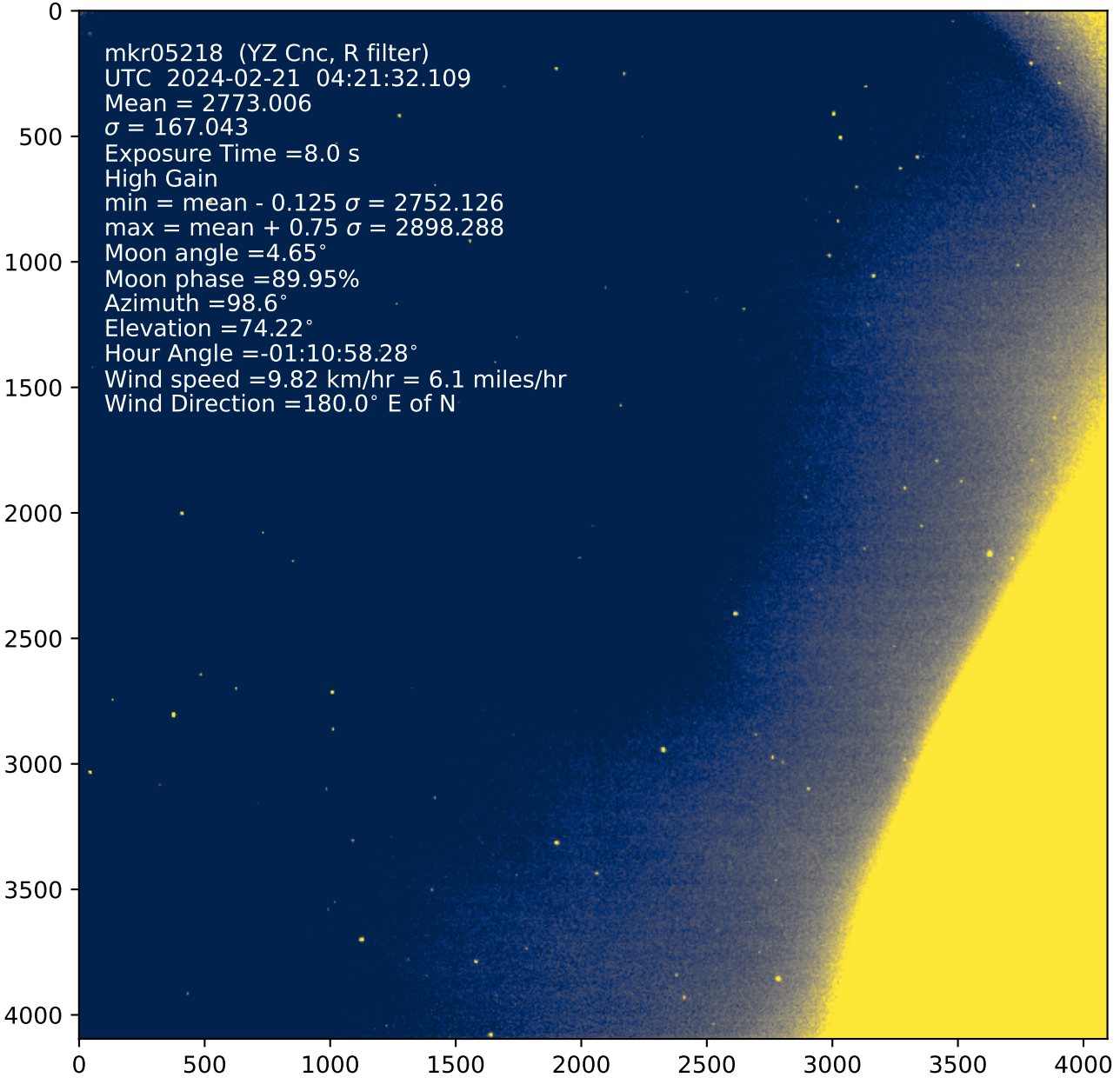
mkr05218 (YZ Cnc, R filter)
UTC 2024-02-21 04:21:32.109
Mean = 2773.006
σ = 167.043
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2752.126
max = mean + 0.75 σ = 2898.288
Moon angle =4.65°
Moon phase =89.95%
Azimuth =98.6°
Elevation =74.22°
Hour Angle =-01:10:58.28°
Wind speed =9.82 km/hr = 6.1 miles/hr
Wind Direction =180.0° E of N
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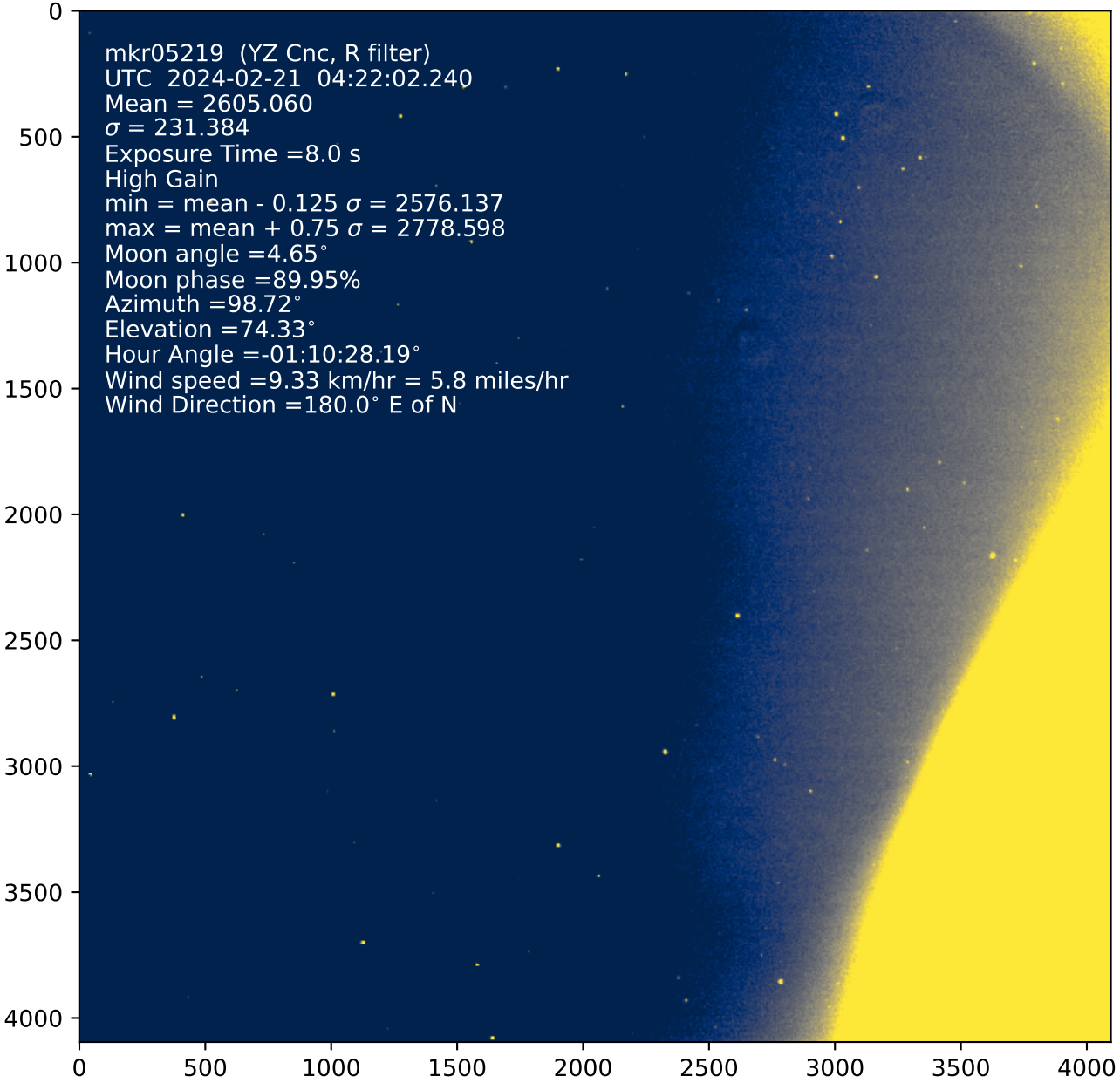
mkr05219 (YZ Cnc, R filter)
UTC 2024-02-21 04:22:02.240
Mean = 2605.060
σ = 231.384
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2576.137
max = mean + 0.75 σ = 2778.598
Moon angle =4.65°
Moon phase =89.95%
Azimuth =98.72°
Elevation =74.33°
Hour Angle =-01:10:28.19°
Wind speed =9.33 km/hr = 5.8 miles/hr
Wind Direction =180.0° E of N
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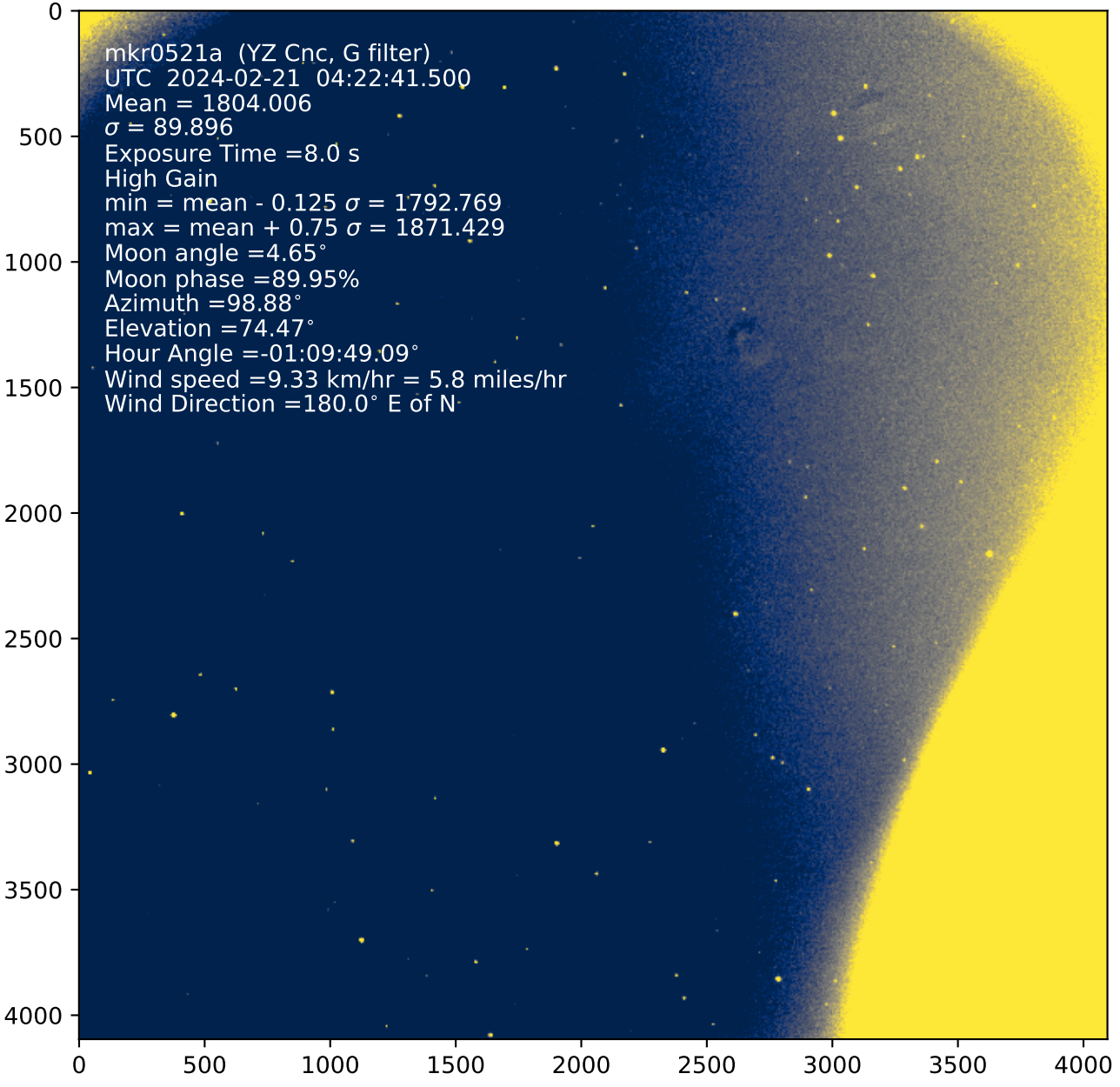
mkr0521a (YZ Cnc, G filter)
UTC 2024-02-21 04:22:41.500
Mean = 1804.006
σ = 89.896
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1792.769
max = mean + 0.75 σ = 1871.429
Moon angle =4.65°
Moon phase =89.95%
Azimuth =98.88°
Elevation =74.47°
Hour Angle =-01:09:49.09°
Wind speed =9.33 km/hr = 5.8 miles/hr
Wind Direction =180.0° E of N
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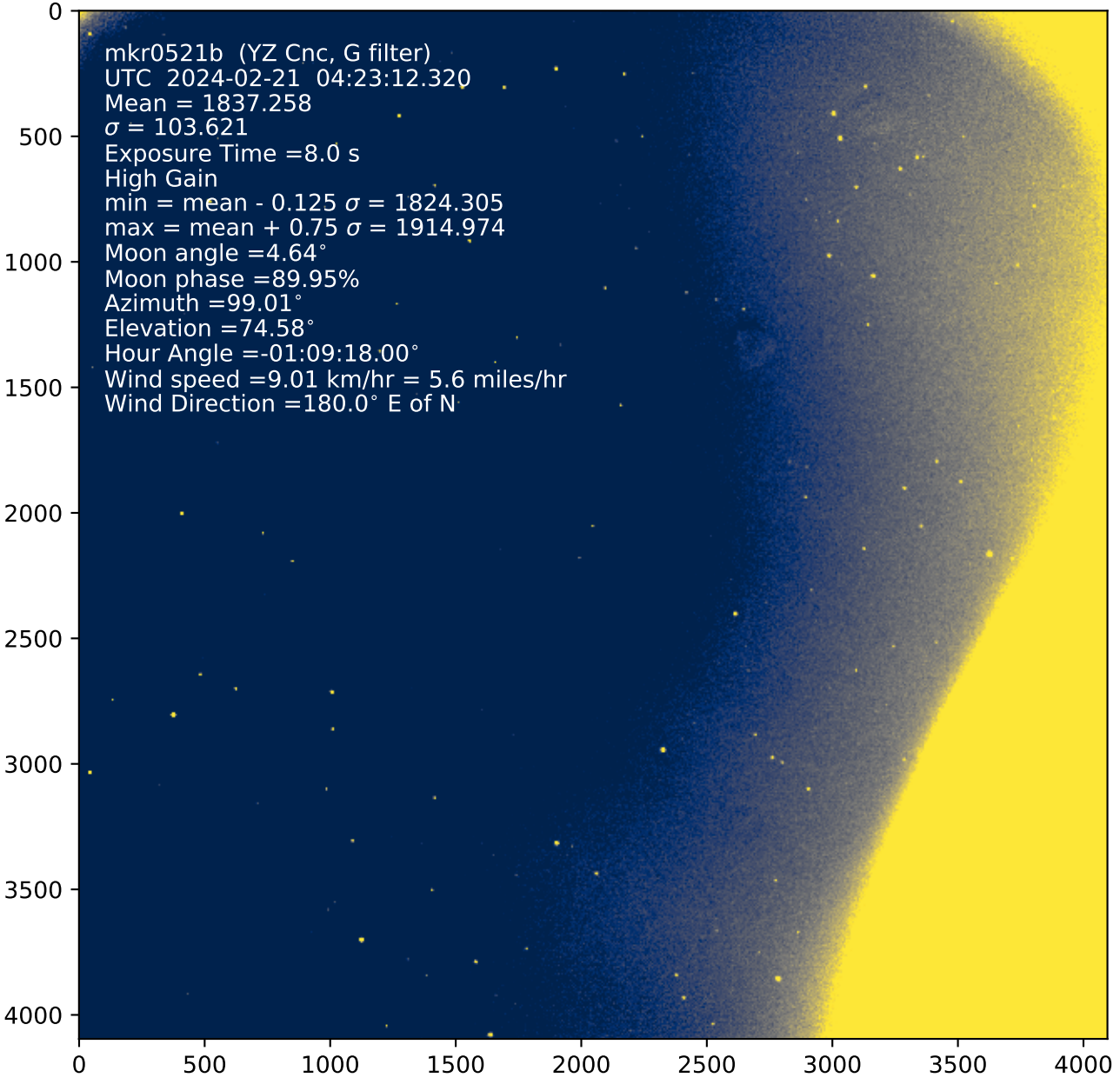
mkr0521b (YZ Cnc, G filter)
UTC 2024-02-21 04:23:12.320
Mean = 1837.258
σ = 103.621
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1824.305
max = mean + 0.75 σ = 1914.974
Moon angle =4.64°
Moon phase =89.95%
Azimuth =99.01°
Elevation =74.58°
Hour Angle =-01:09:18.00°
Wind speed =9.01 km/hr = 5.6 miles/hr
Wind Direction =180.0° E of N
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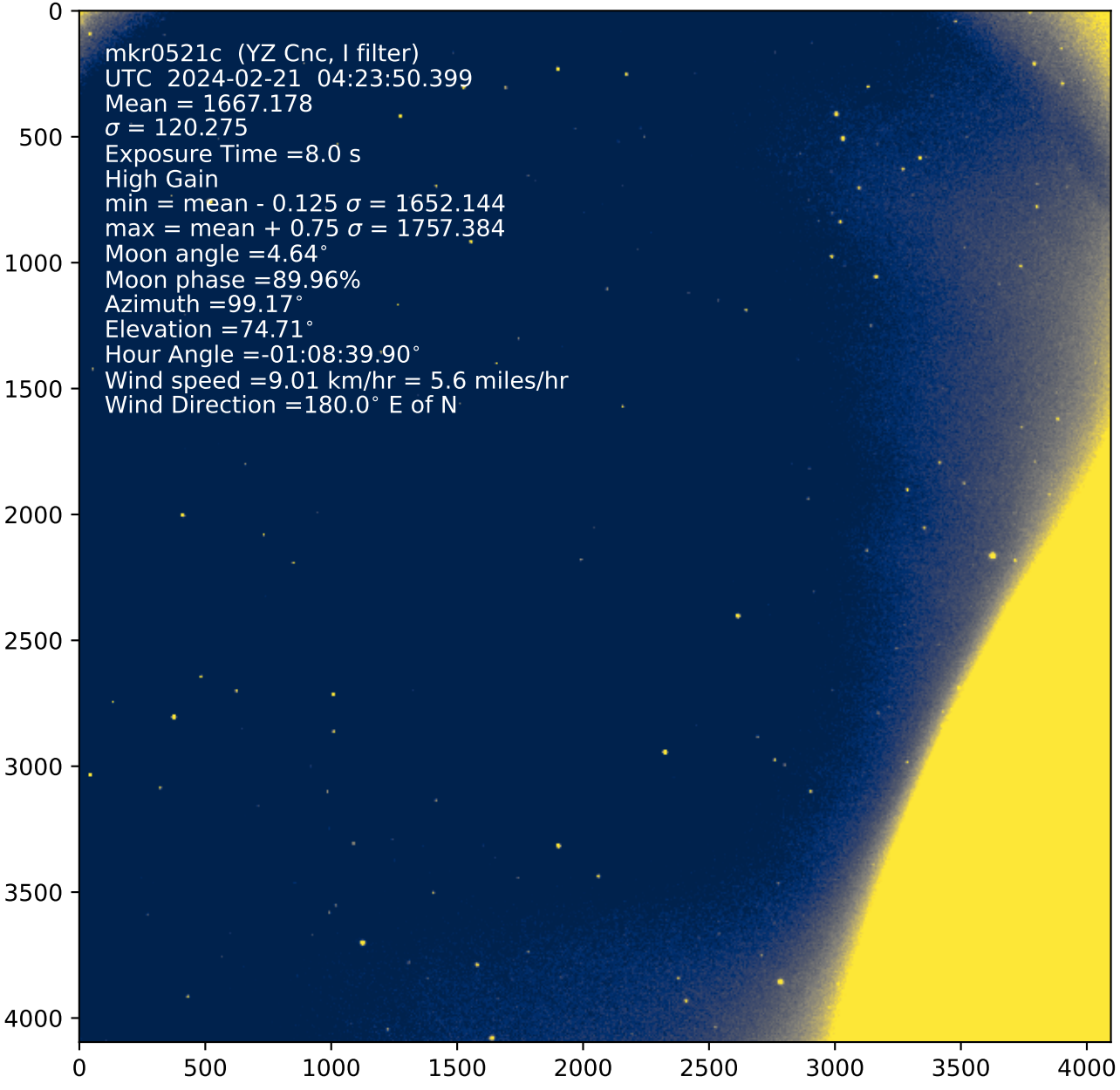
mkr0521c (YZ Cnc, I filter)
UTC 2024-02-21 04:23:50.399
Mean = 1667.178
σ = 120.275
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1652.144
max = mean + 0.75 σ = 1757.384
Moon angle =4.64°
Moon phase =89.96%
Azimuth =99.17°
Elevation =74.71°
Hour Angle =-01:08:39.90°
Wind speed =9.01 km/hr = 5.6 miles/hr
Wind Direction =180.0° E of N
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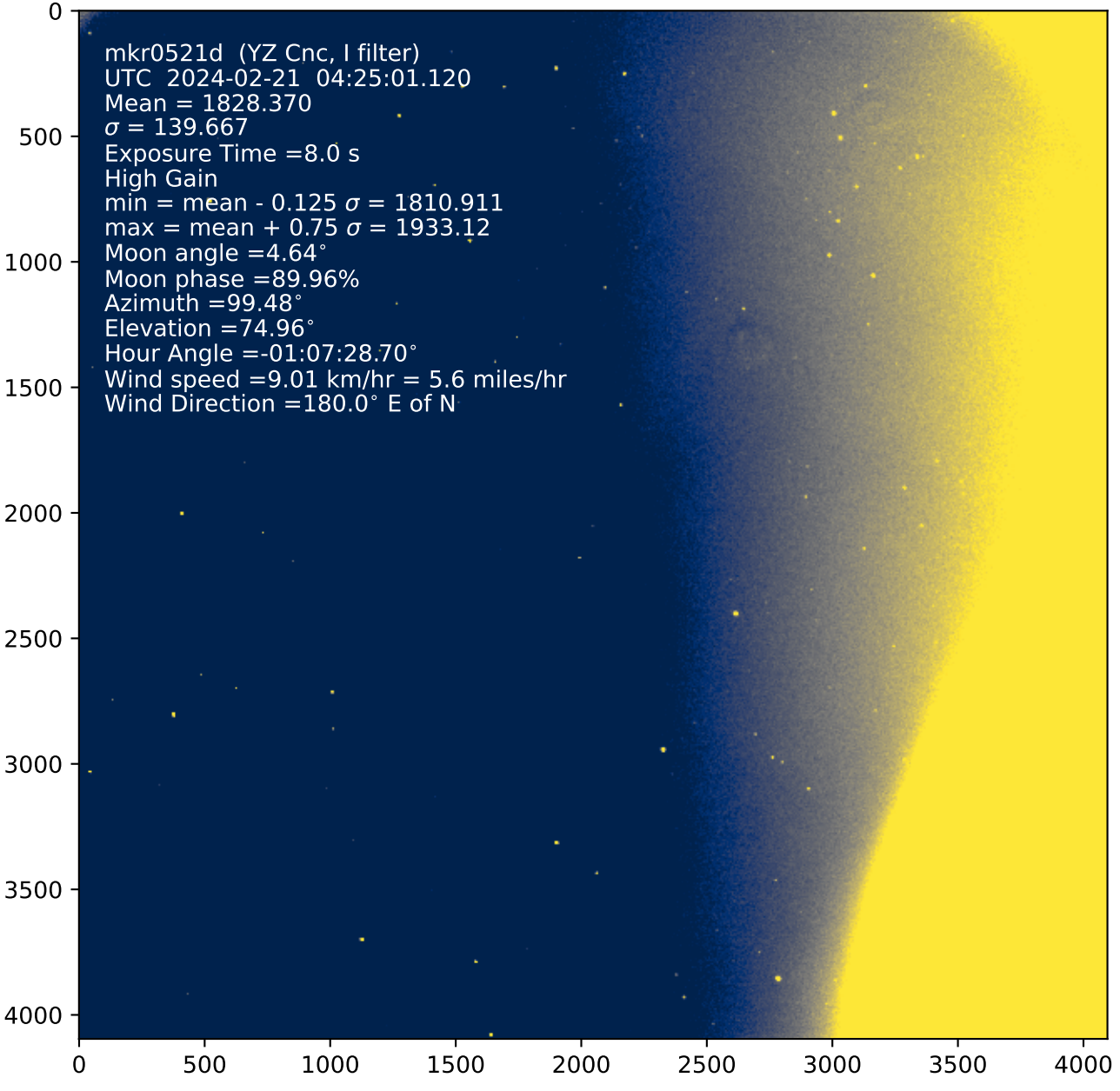
mkr0521d (YZ Cnc, I filter)
UTC 2024-02-21 04:25:01.120
Mean = 1828.370
σ = 139.667
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1810.911
max = mean + 0.75 σ = 1933.12
Moon angle =4.64°
Moon phase =89.96%
Azimuth =99.48°
Elevation =74.96°
Hour Angle =-01:07:28.70°
Wind speed =9.01 km/hr = 5.6 miles/hr
Wind Direction =180.0° E of N
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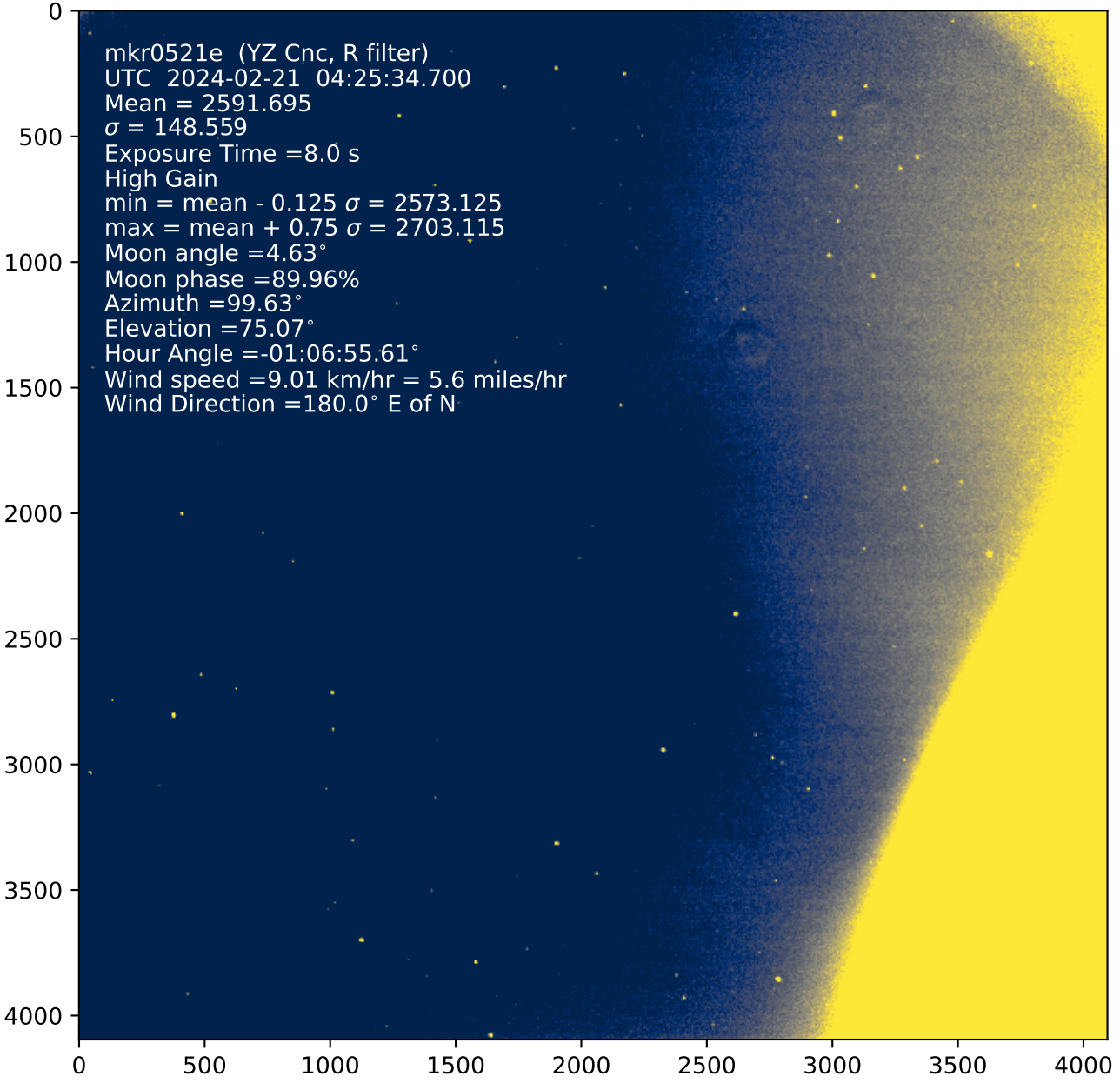
mkr0521e (YZ Cnc, R filter)
UTC 2024-02-21 04:25:34.700
Mean = 2591.695
σ = 148.559
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2573.125
max = mean + 0.75 σ = 2703.115
Moon angle =4.63°
Moon phase =89.96%
Azimuth =99.63°
Elevation =75.07°
Hour Angle =-01:06:55.61°
Wind speed =9.01 km/hr = 5.6 miles/hr
Wind Direction =180.0° E of N
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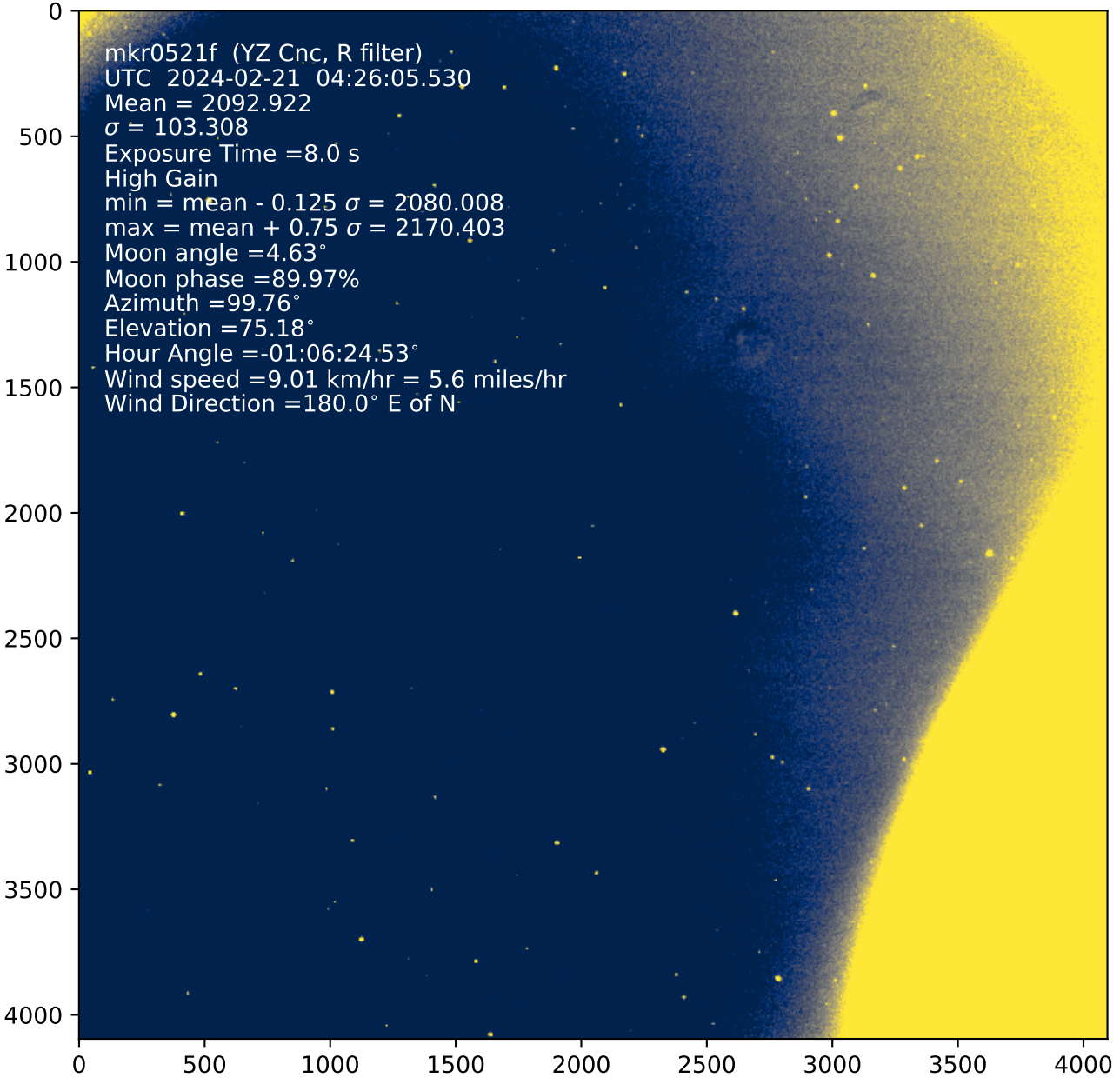
mkr0521f (YZ Cnc, R filter)
UTC 2024-02-21 04:26:05.530
Mean = 2092.922
σ = 103.308
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2080.008
max = mean + 0.75 σ = 2170.403
Moon angle =4.63°
Moon phase =89.97%
Azimuth =99.76°
Elevation =75.18°
Hour Angle =-01:06:24.53°
Wind speed =9.01 km/hr = 5.6 miles/hr
Wind Direction =180.0° E of N
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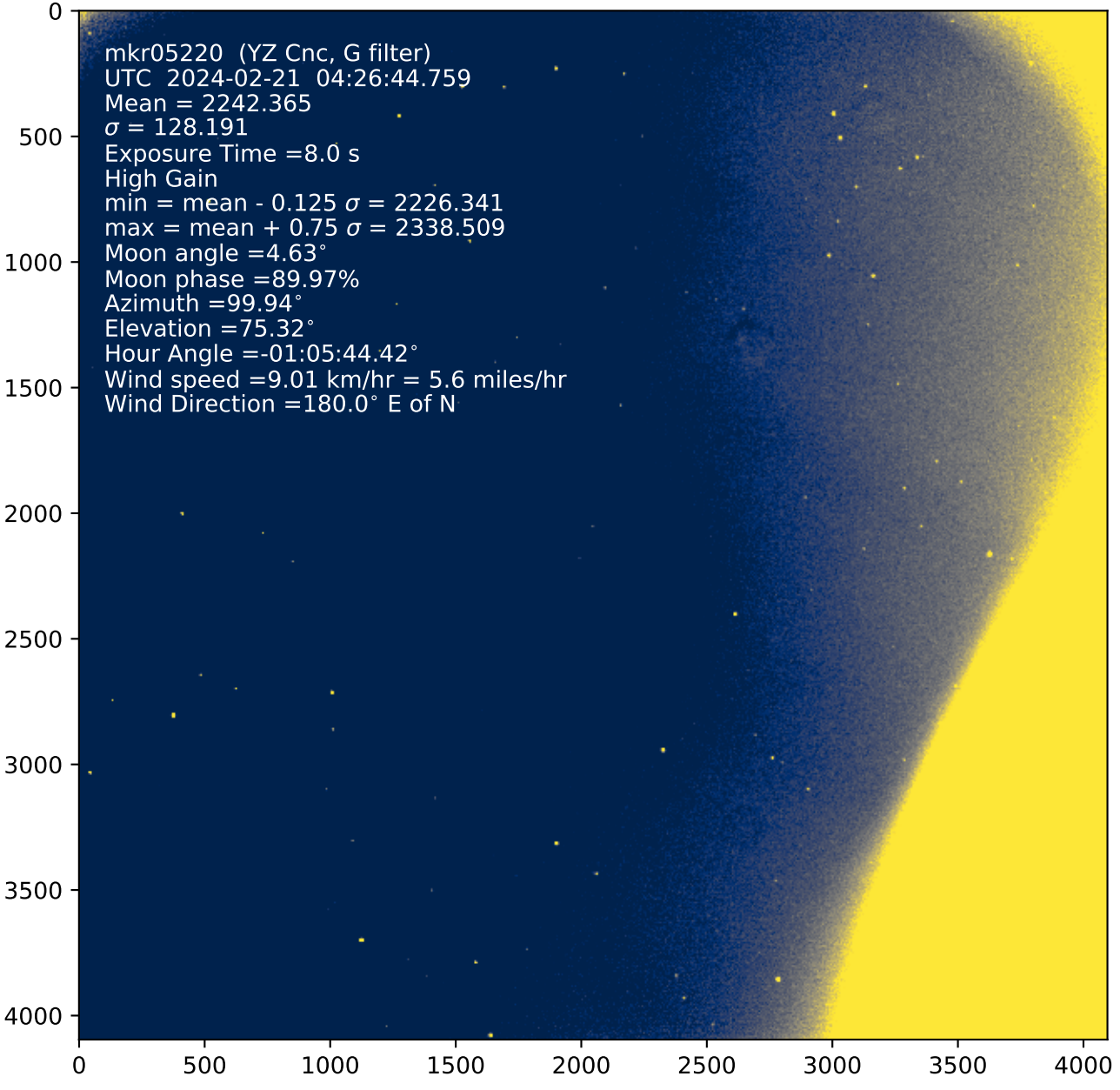
mkr05220 (YZ Cnc, G filter)
UTC 2024-02-21 04:26:44.759
Mean = 2242.365
σ = 128.191
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2226.341
max = mean + 0.75 σ = 2338.509
Moon angle =4.63°
Moon phase =89.97%
Azimuth =99.94°
Elevation =75.32°
Hour Angle =-01:05:44.42°
Wind speed =9.01 km/hr = 5.6 miles/hr
Wind Direction =180.0° E of N
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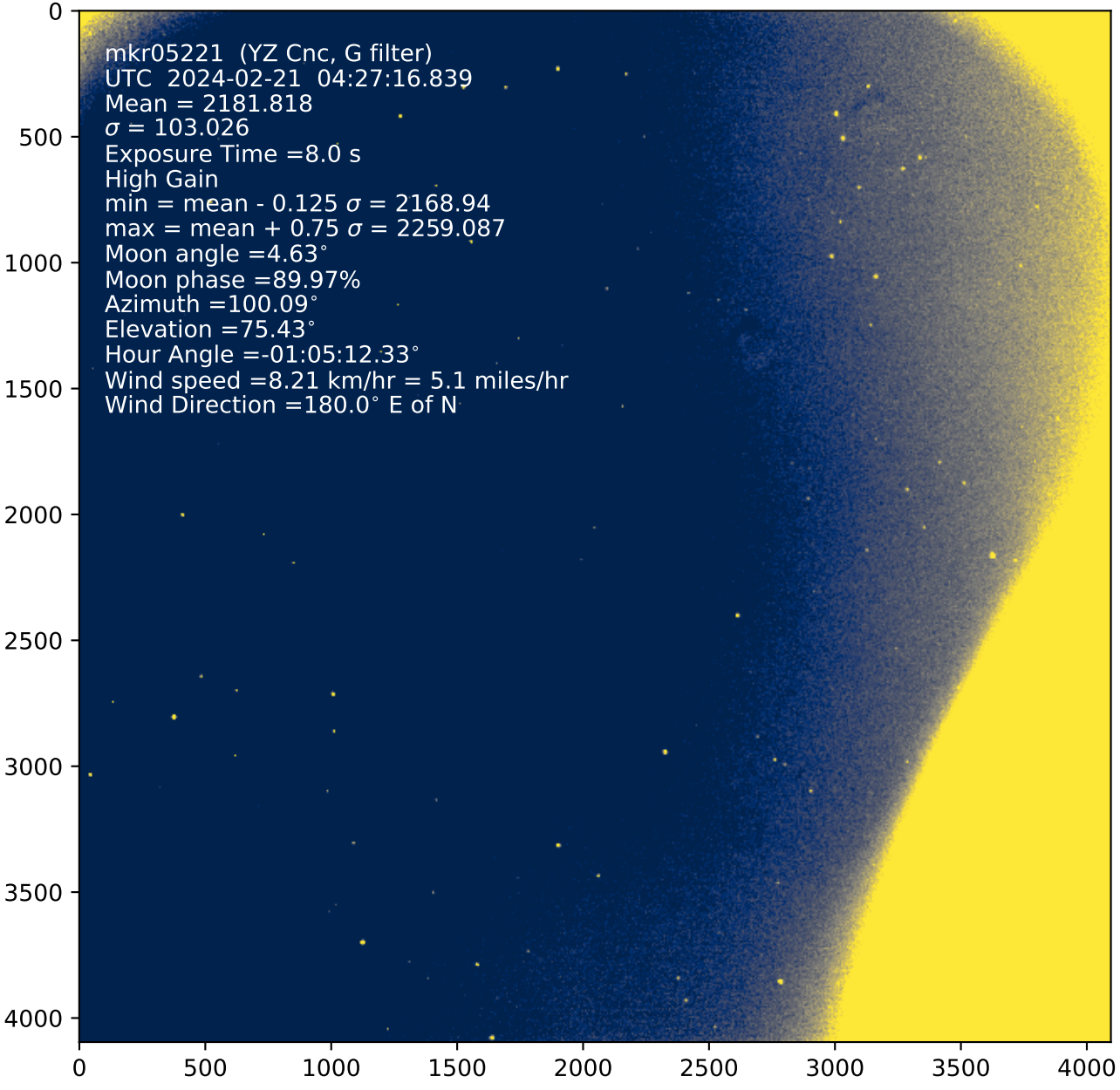
mkr05221 (YZ Cnc, G filter)
UTC 2024-02-21 04:27:16.839
Mean = 2181.818
σ = 103.026
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2168.94
max = mean + 0.75 σ = 2259.087
Moon angle =4.63°
Moon phase =89.97%
Azimuth =100.09°
Elevation =75.43°
Hour Angle =-01:05:12.33°
Wind speed =8.21 km/hr = 5.1 miles/hr
Wind Direction =180.0° E of N
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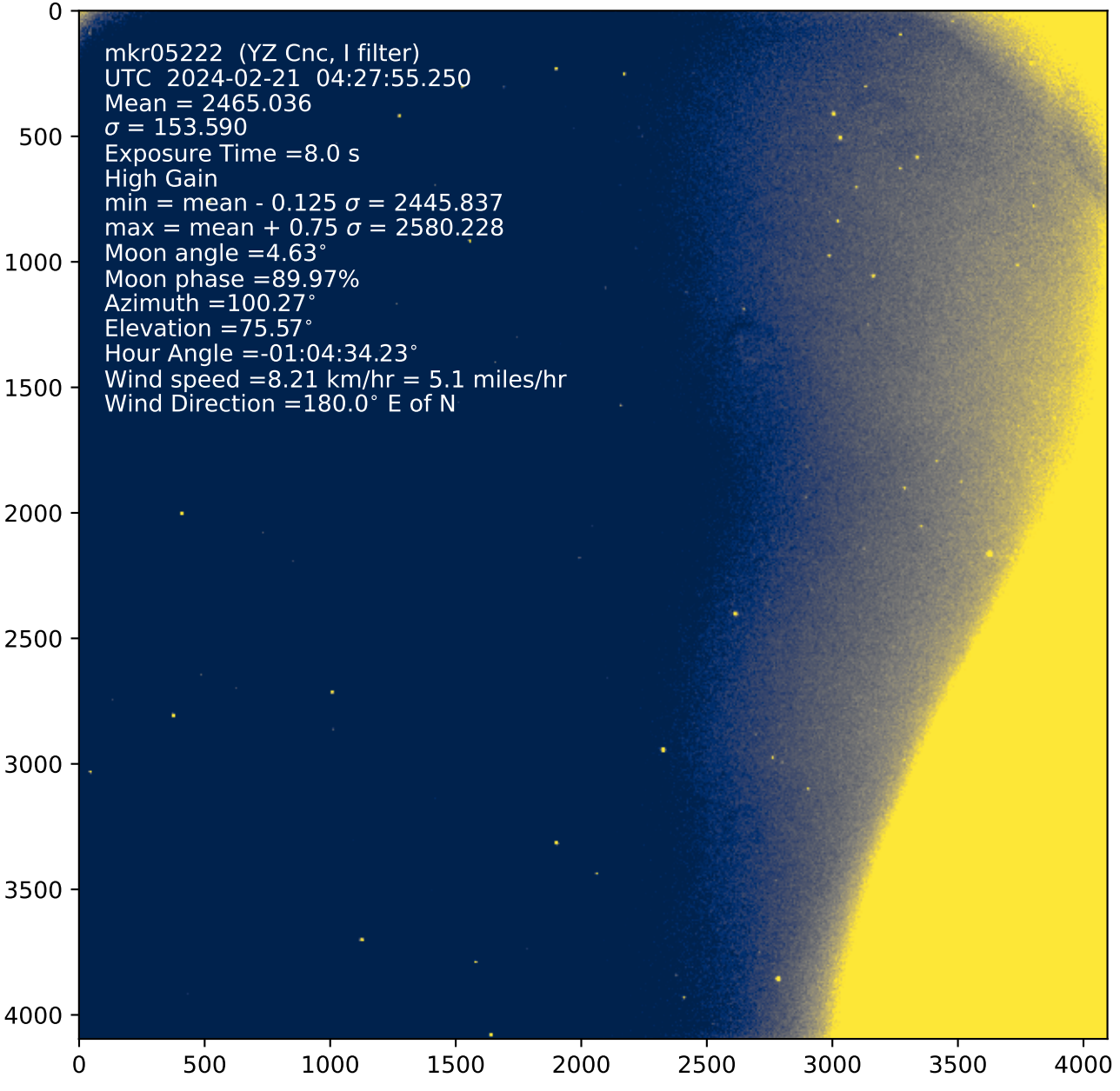
mkr05222 (YZ Cnc, I filter)
UTC 2024-02-21 04:27:55.250
Mean = 2465.036
σ = 153.590
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2445.837
max = mean + 0.75 σ = 2580.228
Moon angle =4.63°
Moon phase =89.97%
Azimuth =100.27°
Elevation =75.57°
Hour Angle =-01:04:34.23°
Wind speed =8.21 km/hr = 5.1 miles/hr
Wind Direction =180.0° E of N
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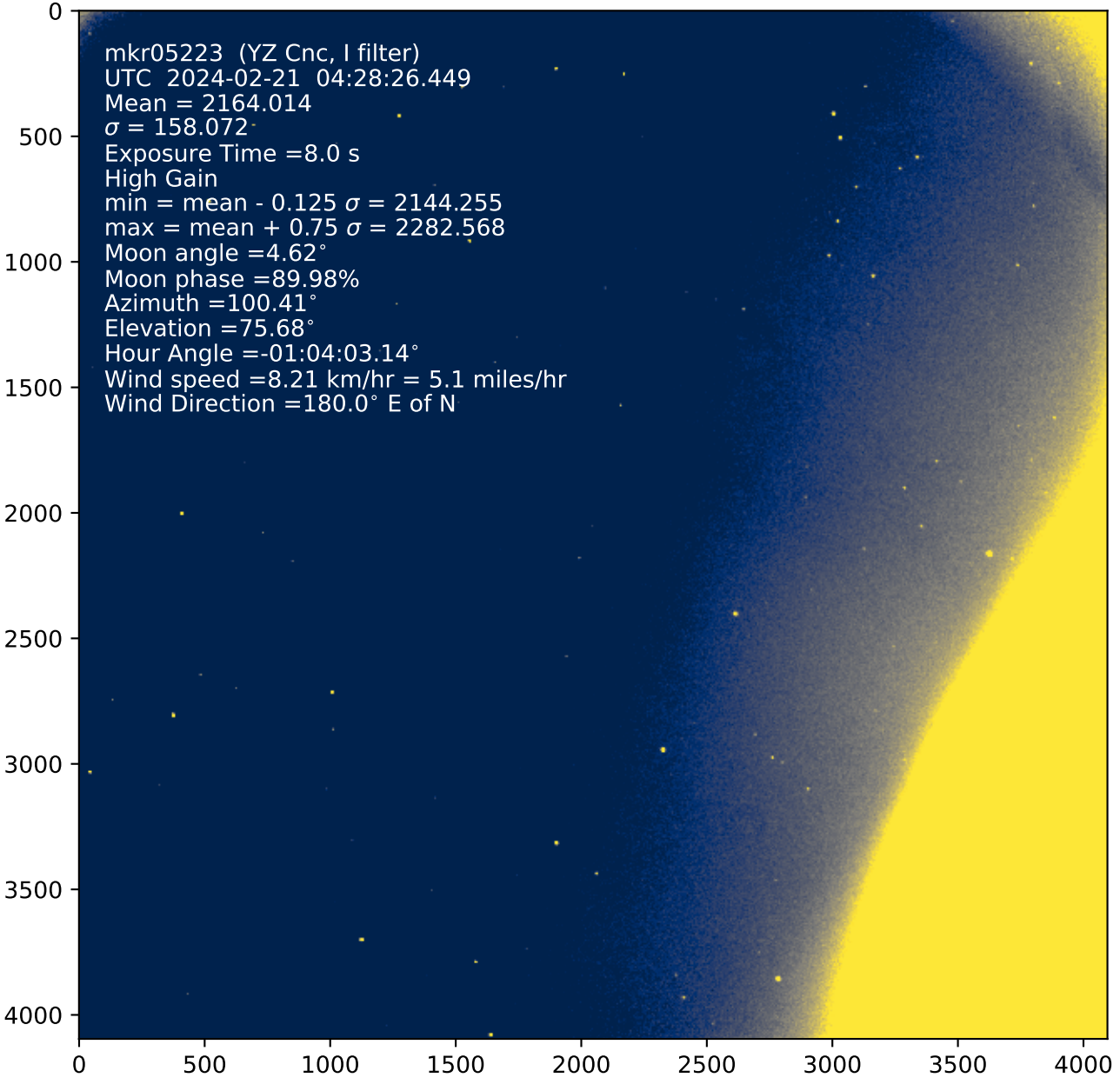
mkr05223 (YZ Cnc, I filter)
UTC 2024-02-21 04:28:26.449
Mean = 2164.014
σ = 158.072
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2144.255
max = mean + 0.75 σ = 2282.568
Moon angle =4.62°
Moon phase =89.98%
Azimuth =100.41°
Elevation =75.68°
Hour Angle =-01:04:03.14°
Wind speed =8.21 km/hr = 5.1 miles/hr
Wind Direction =180.0° E of N
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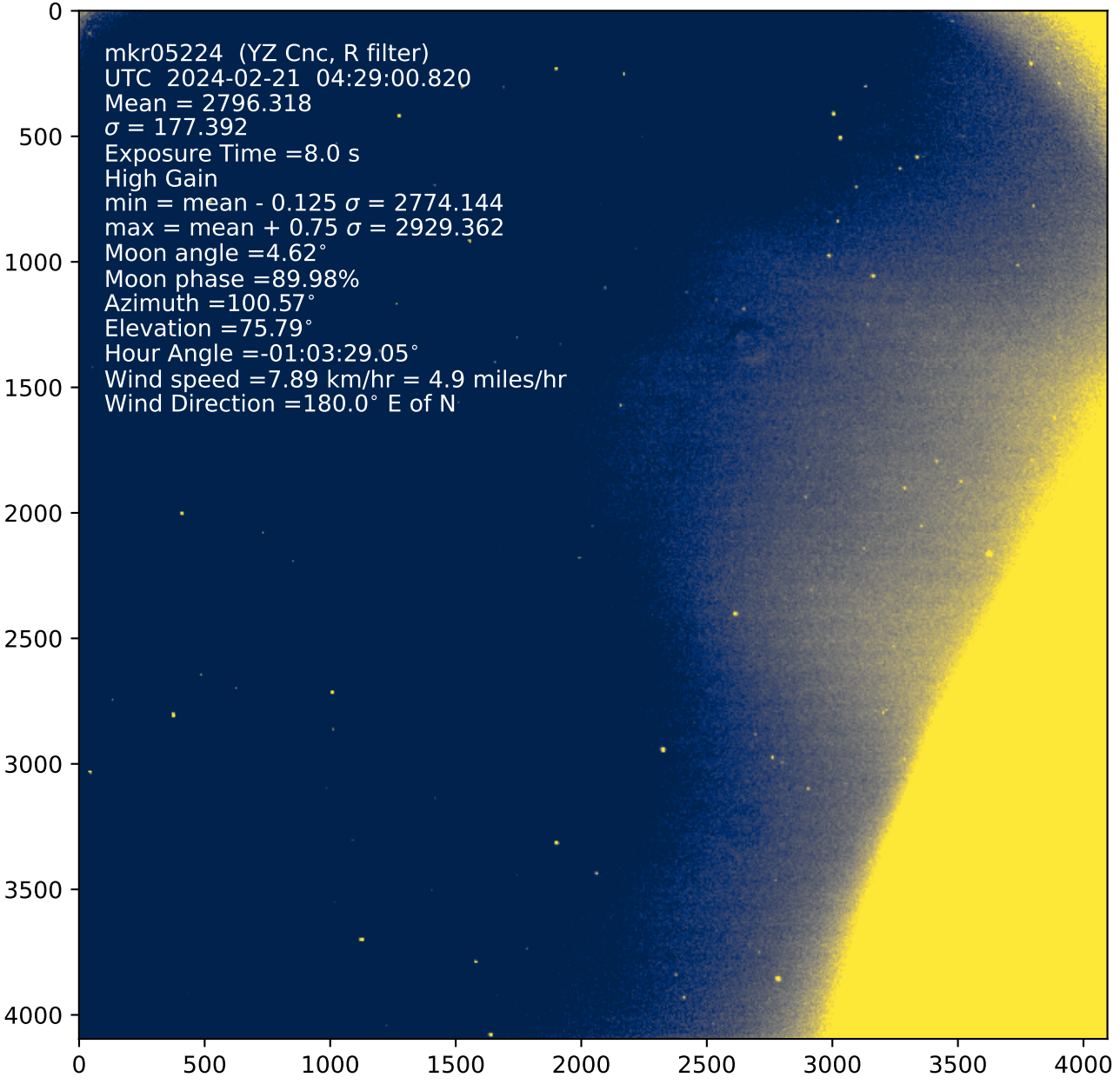
mkr05224 (YZ Cnc, R filter)
UTC 2024-02-21 04:29:00.820
Mean = 2796.318
σ = 177.392
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2774.144
max = mean + 0.75 σ = 2929.362
Moon angle =4.62°
Moon phase =89.98%
Azimuth =100.57°
Elevation =75.79°
Hour Angle =-01:03:29.05°
Wind speed =7.89 km/hr = 4.9 miles/hr
Wind Direction =180.0° E of N
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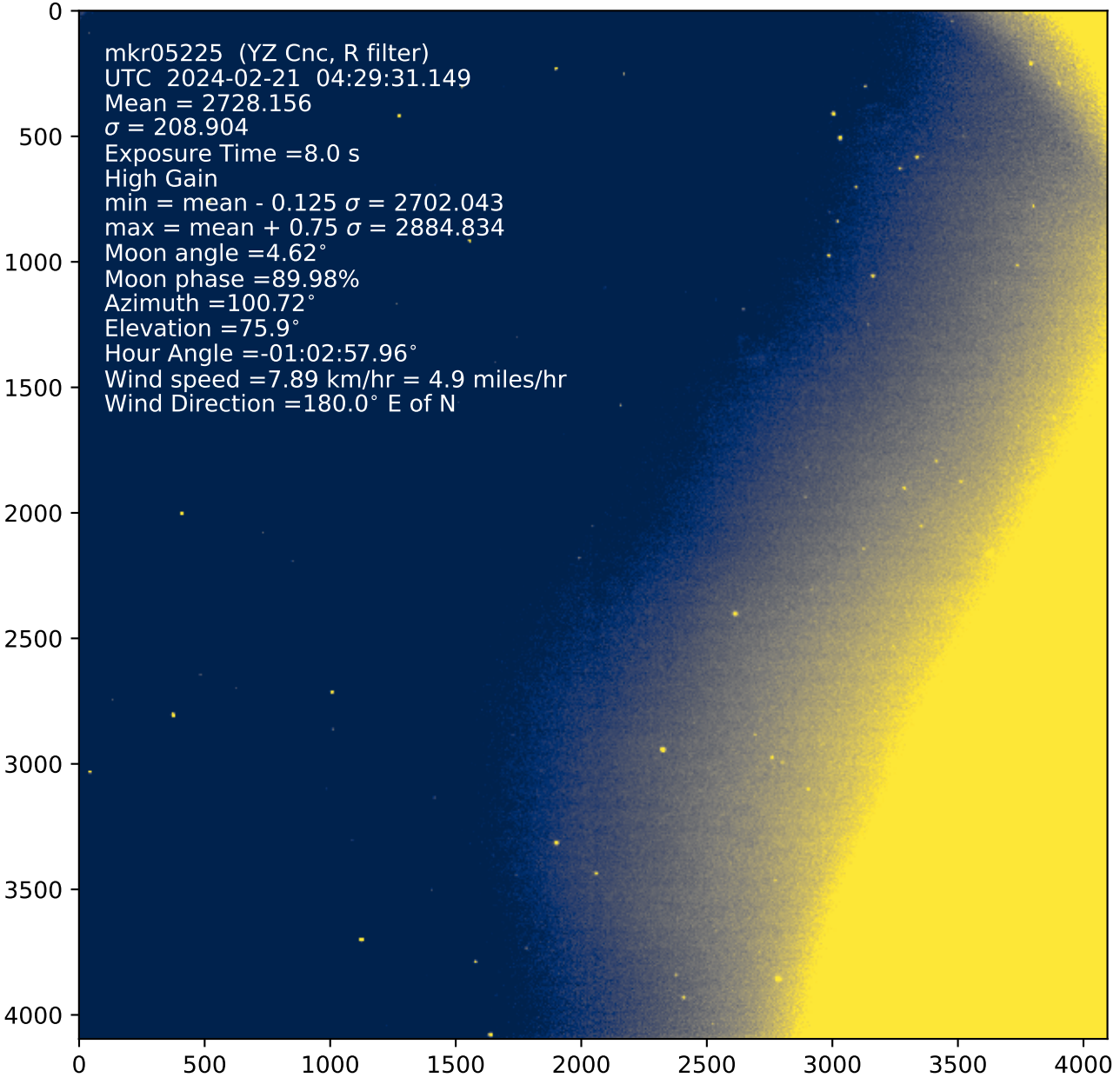
mkr05225 (YZ Cnc, R filter)
UTC 2024-02-21 04:29:31.149
Mean = 2728.156
σ = 208.904
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2702.043
max = mean + 0.75 σ = 2884.834
Moon angle =4.62°
Moon phase =89.98%
Azimuth =100.72°
Elevation =75.9°
Hour Angle =-01:02:57.96°
Wind speed =7.89 km/hr = 4.9 miles/hr
Wind Direction =180.0° E of N
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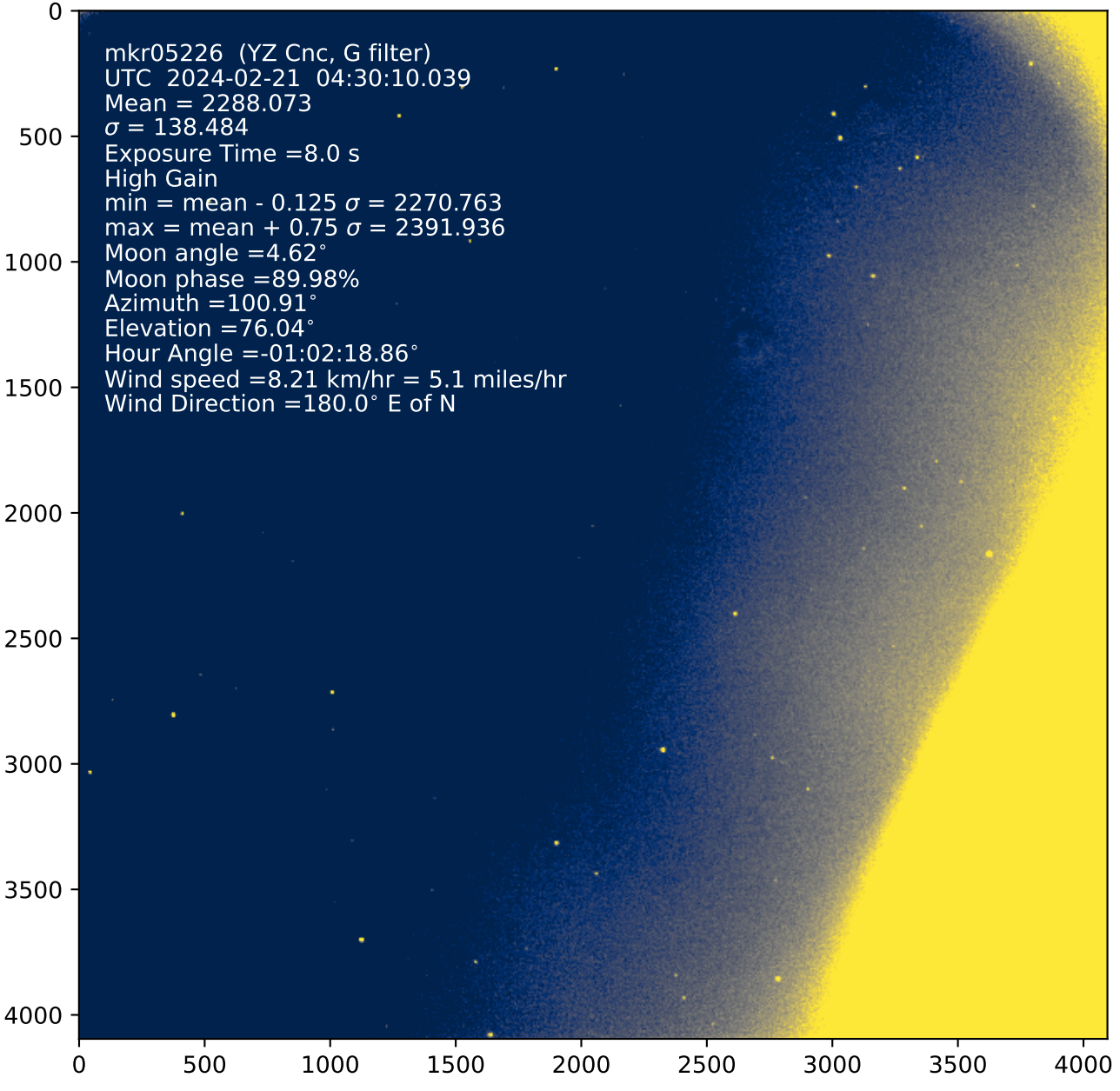
mkr05226 (YZ Cnc, G filter)
UTC 2024-02-21 04:30:10.039
Mean = 2288.073
σ = 138.484
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2270.763
max = mean + 0.75 σ = 2391.936
Moon angle =4.62°
Moon phase =89.98%
Azimuth =100.91°
Elevation =76.04°
Hour Angle =-01:02:18.86°
Wind speed =8.21 km/hr = 5.1 miles/hr
Wind Direction =180.0° E of N
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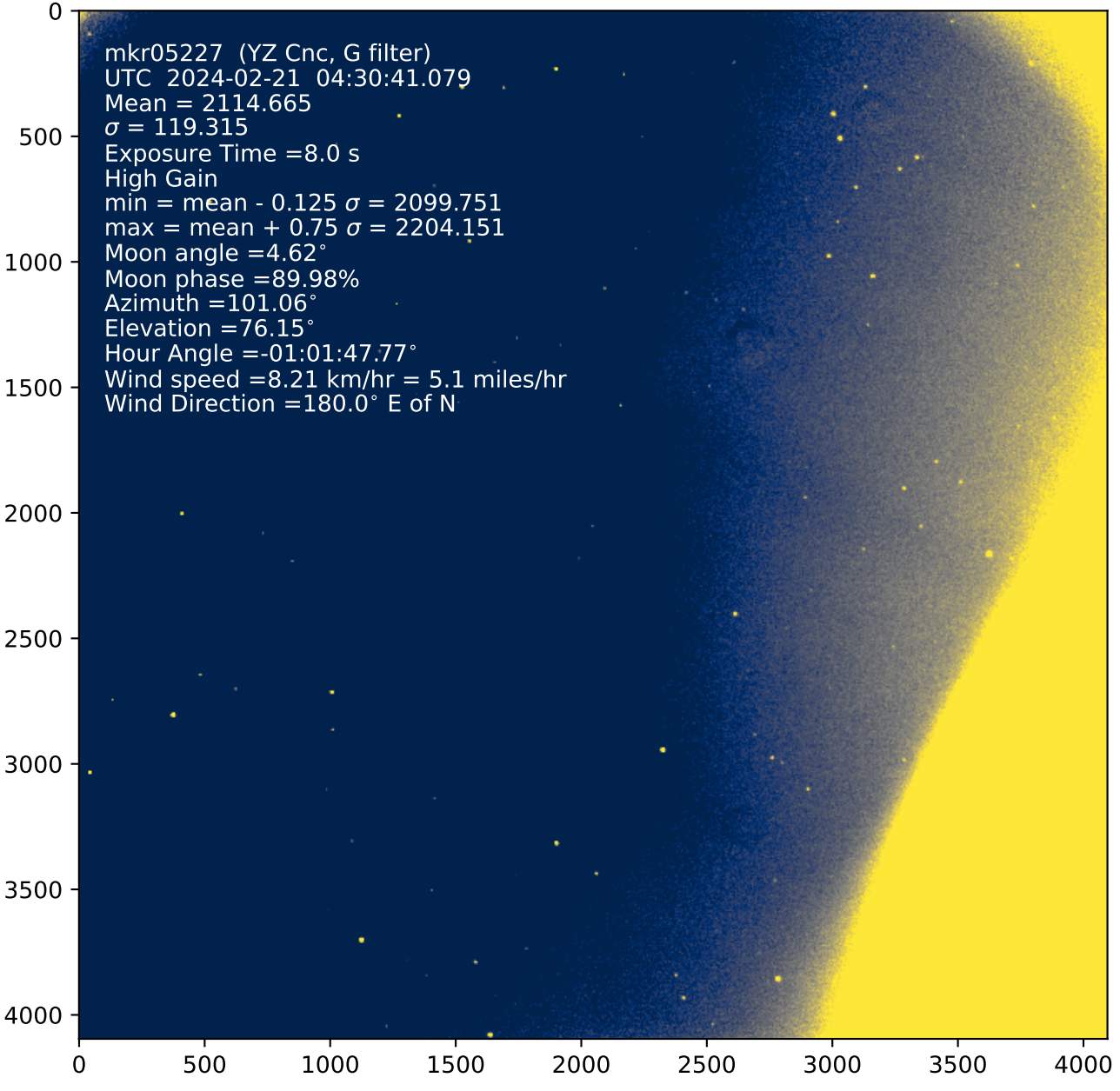
mkr05227 (YZ Cnc, G filter)
UTC 2024-02-21 04:30:41.079
Mean = 2114.665
σ = 119.315
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2099.751
max = mean + 0.75 σ = 2204.151
Moon angle =4.62°
Moon phase =89.98%
Azimuth =101.06°
Elevation =76.15°
Hour Angle =-01:01:47.77°
Wind speed =8.21 km/hr = 5.1 miles/hr
Wind Direction =180.0° E of N
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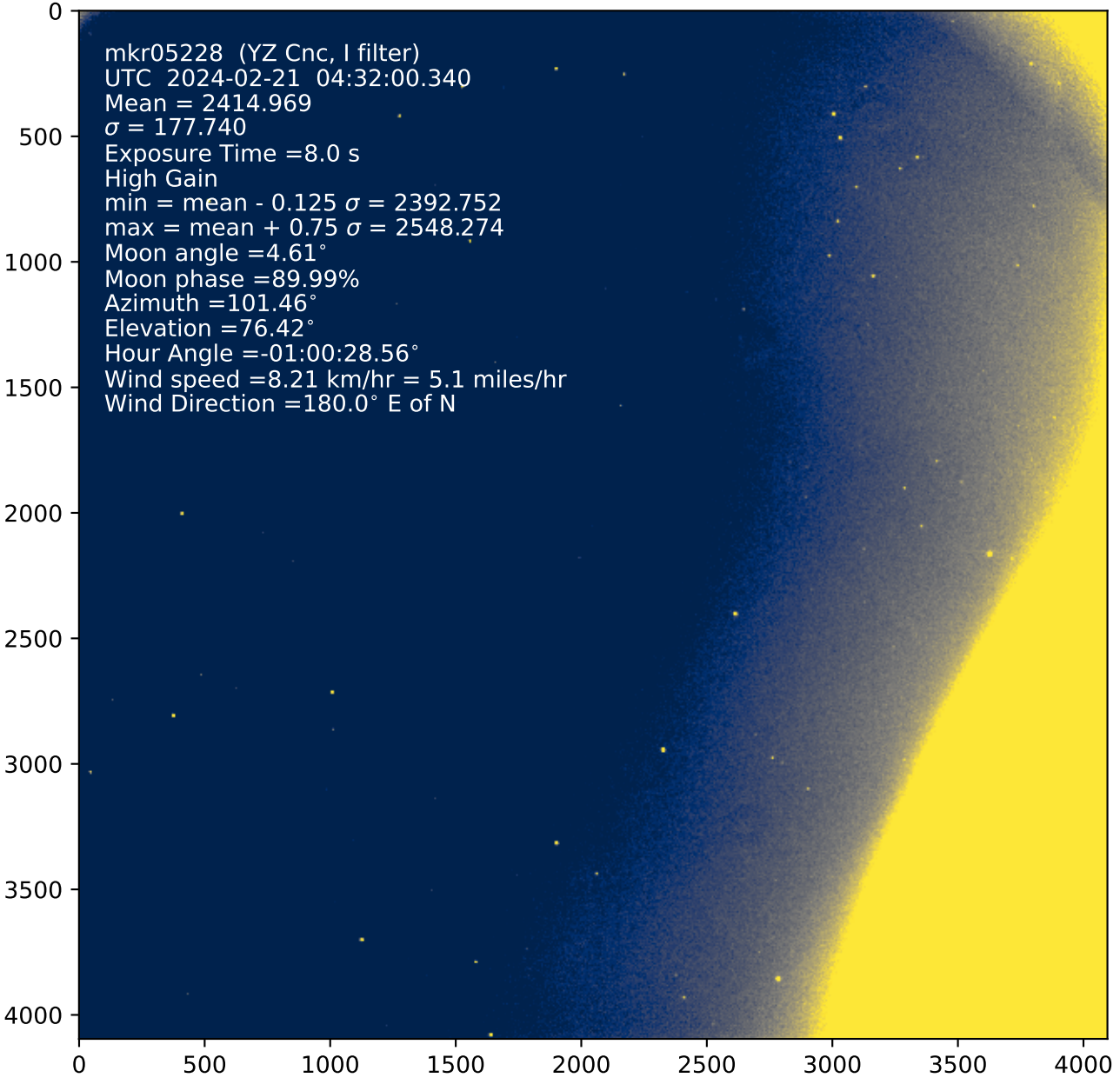
mkr05228 (YZ Cnc, I filter)
UTC 2024-02-21 04:32:00.340
Mean = 2414.969
σ = 177.740
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2392.752
max = mean + 0.75 σ = 2548.274
Moon angle =4.61°
Moon phase =89.99%
Azimuth =101.46°
Elevation =76.42°
Hour Angle =-01:00:28.56°
Wind speed =8.21 km/hr = 5.1 miles/hr
Wind Direction =180.0° E of N
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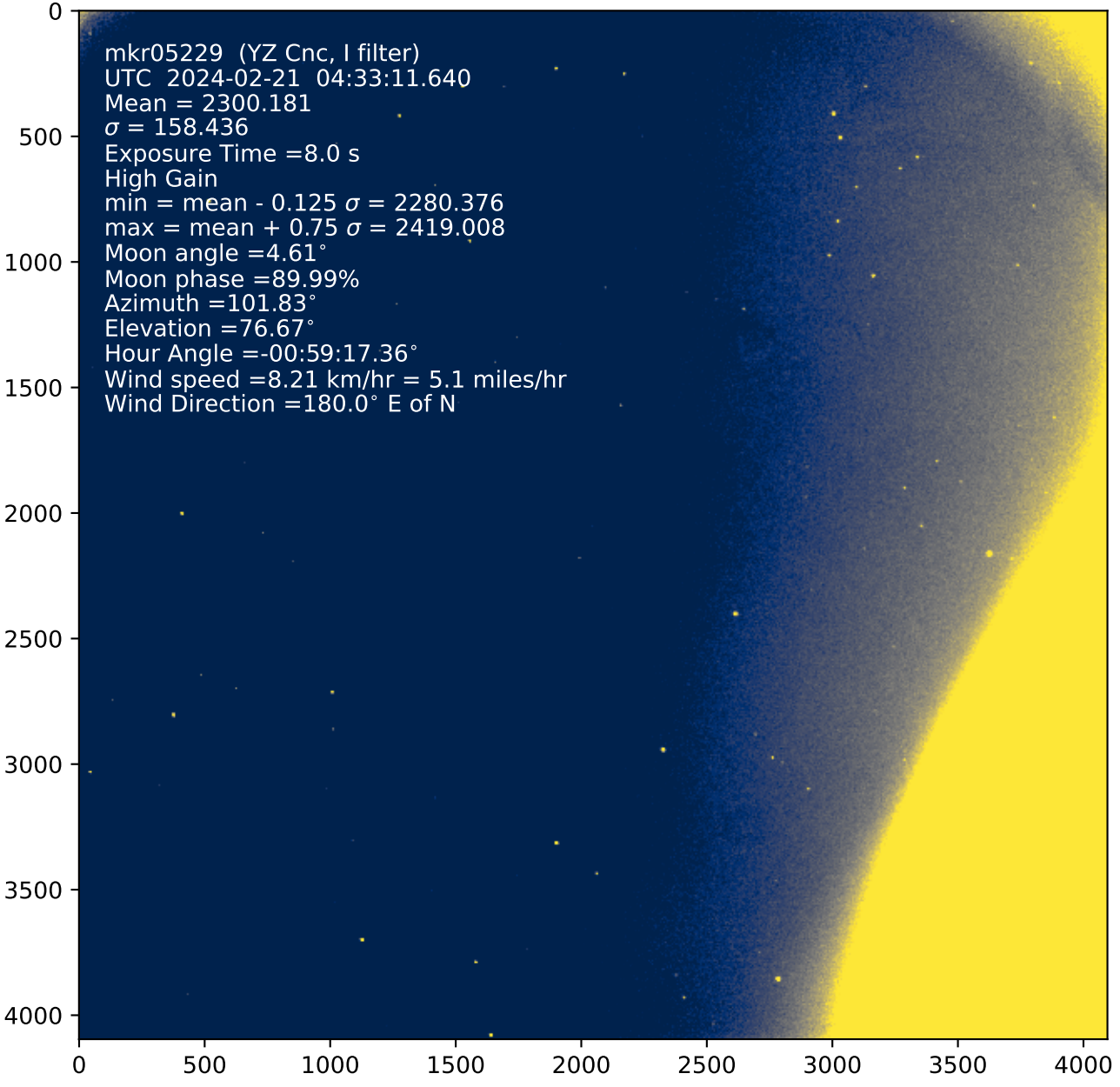
mkr05229 (YZ Cnc, I filter)
UTC 2024-02-21 04:33:11.640
Mean = 2300.181
σ = 158.436
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2280.376
max = mean + 0.75 σ = 2419.008
Moon angle =4.61°
Moon phase =89.99%
Azimuth =101.83°
Elevation =76.67°
Hour Angle =-00:59:17.36°
Wind speed =8.21 km/hr = 5.1 miles/hr
Wind Direction =180.0° E of N
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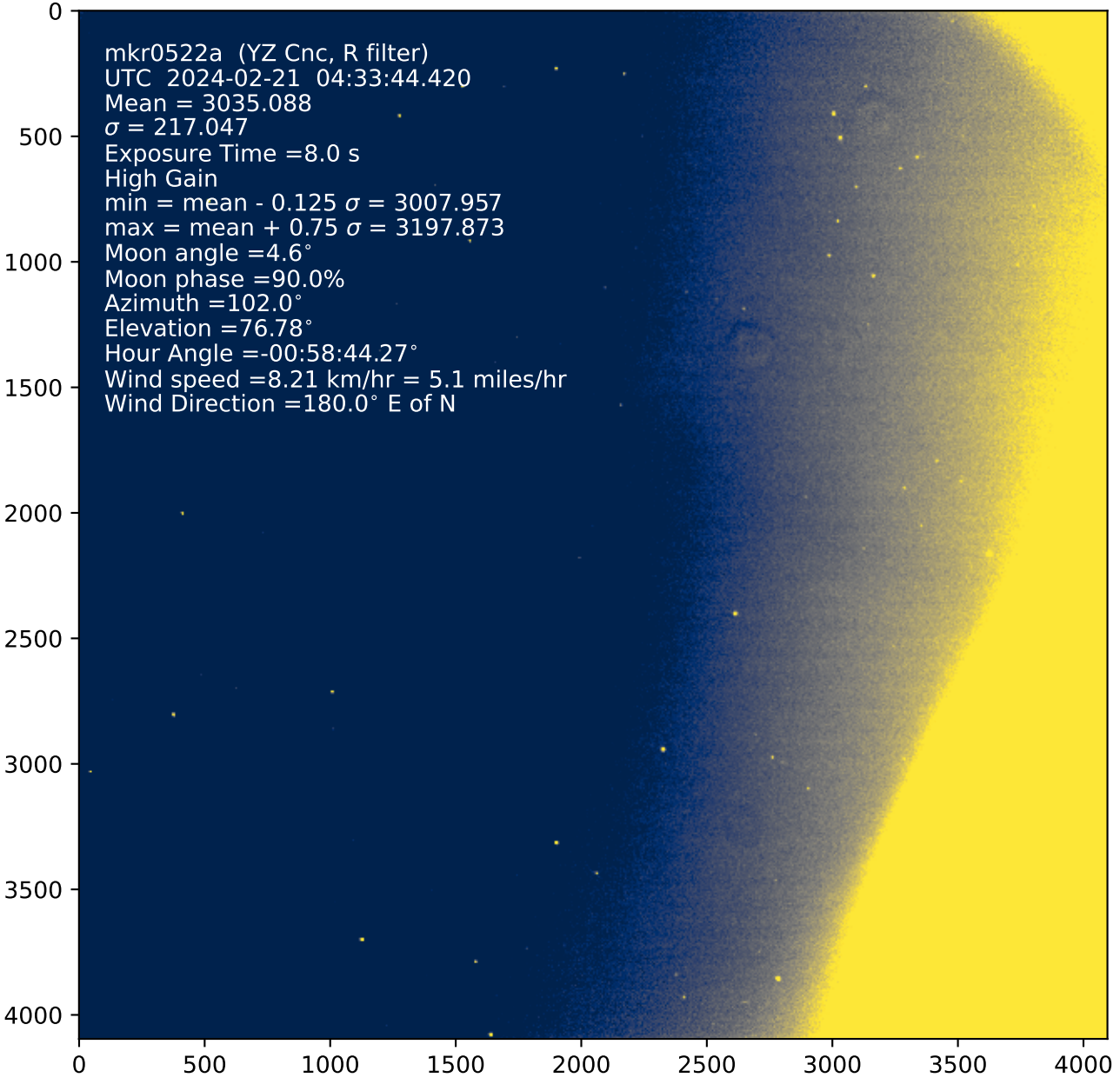
mkr0522a (YZ Cnc, R filter)
UTC 2024-02-21 04:33:44.420
Mean = 3035.088
σ = 217.047
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 3007.957
max = mean + 0.75 σ = 3197.873
Moon angle =4.6°
Moon phase =90.0%
Azimuth =102.0°
Elevation =76.78°
Hour Angle =-00:58:44.27°
Wind speed =8.21 km/hr = 5.1 miles/hr
Wind Direction =180.0° E of N
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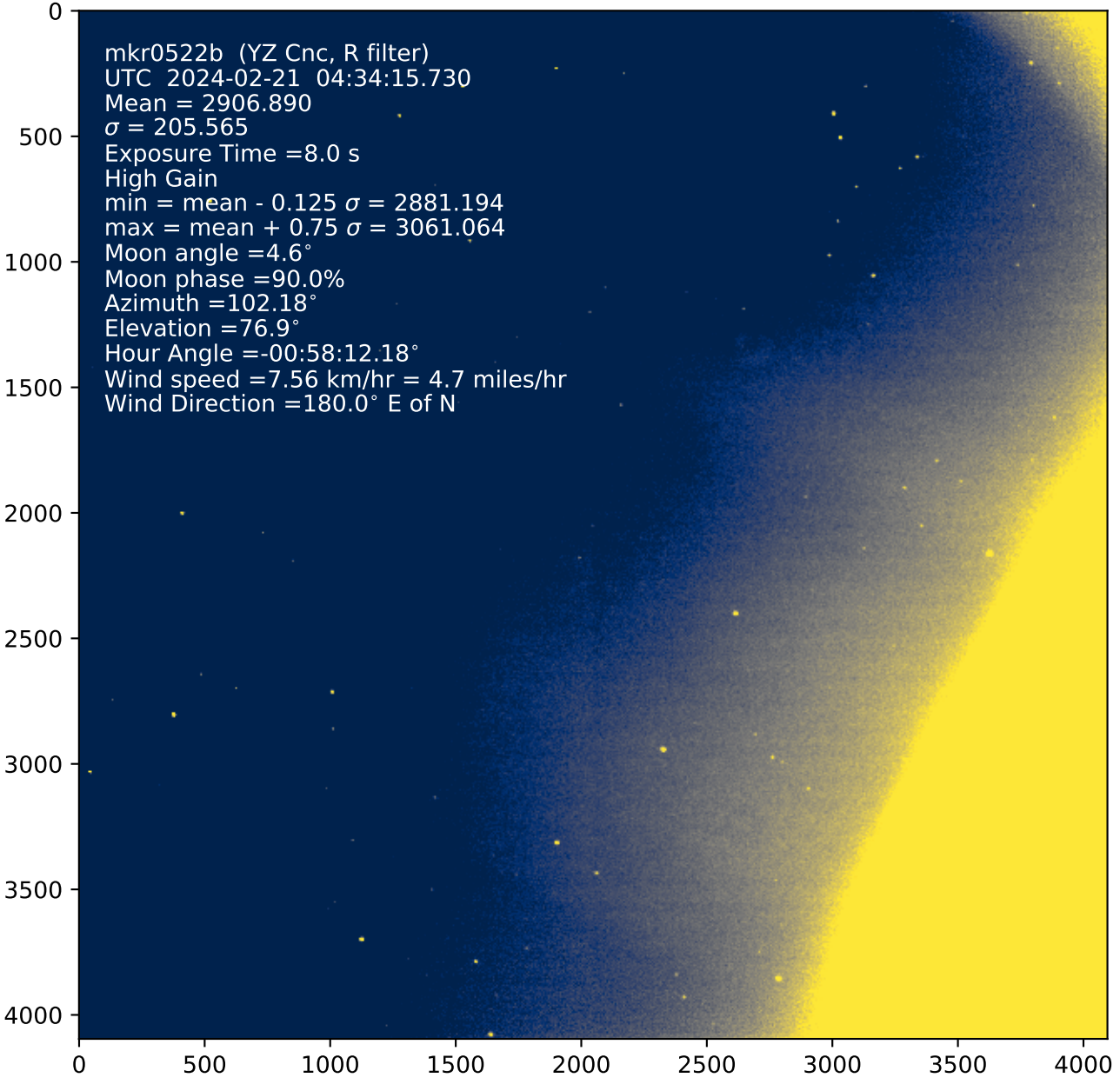
mkr0522b (YZ Cnc, R filter)
UTC 2024-02-21 04:34:15.730
Mean = 2906.890
σ = 205.565
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2881.194
max = mean + 0.75 σ = 3061.064
Moon angle =4.6°
Moon phase =90.0%
Azimuth =102.18°
Elevation =76.9°
Hour Angle =-00:58:12.18°
Wind speed =7.56 km/hr = 4.7 miles/hr
Wind Direction =180.0° E of N
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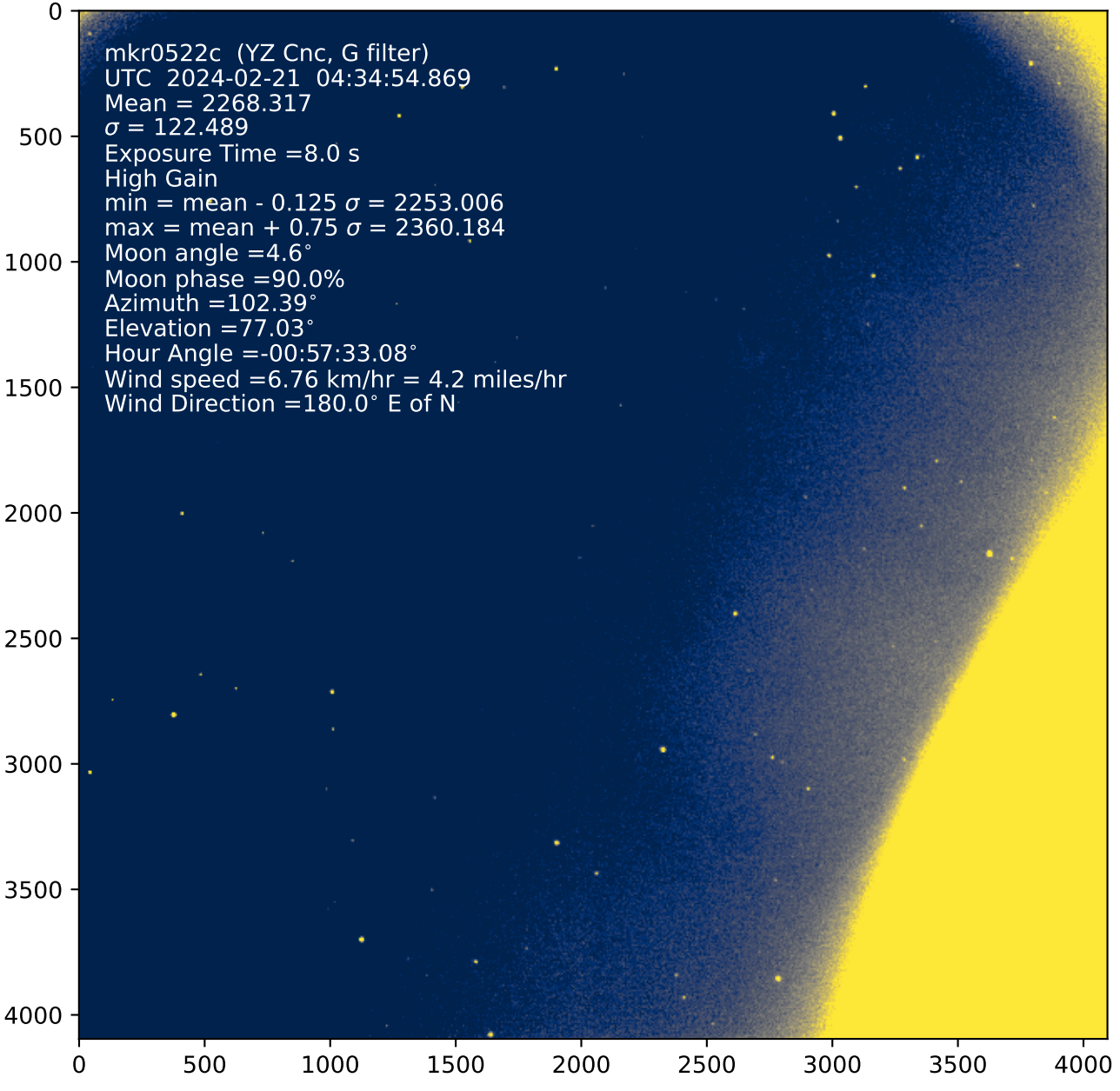
mkr0522c (YZ Cnc, G filter)
UTC 2024-02-21 04:34:54.869
Mean = 2268.317
σ = 122.489
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2253.006
max = mean + 0.75 σ = 2360.184
Moon angle =4.6°
Moon phase =90.0%
Azimuth =102.39°
Elevation =77.03°
Hour Angle =-00:57:33.08°
Wind speed =6.76 km/hr = 4.2 miles/hr
Wind Direction =180.0° E of N
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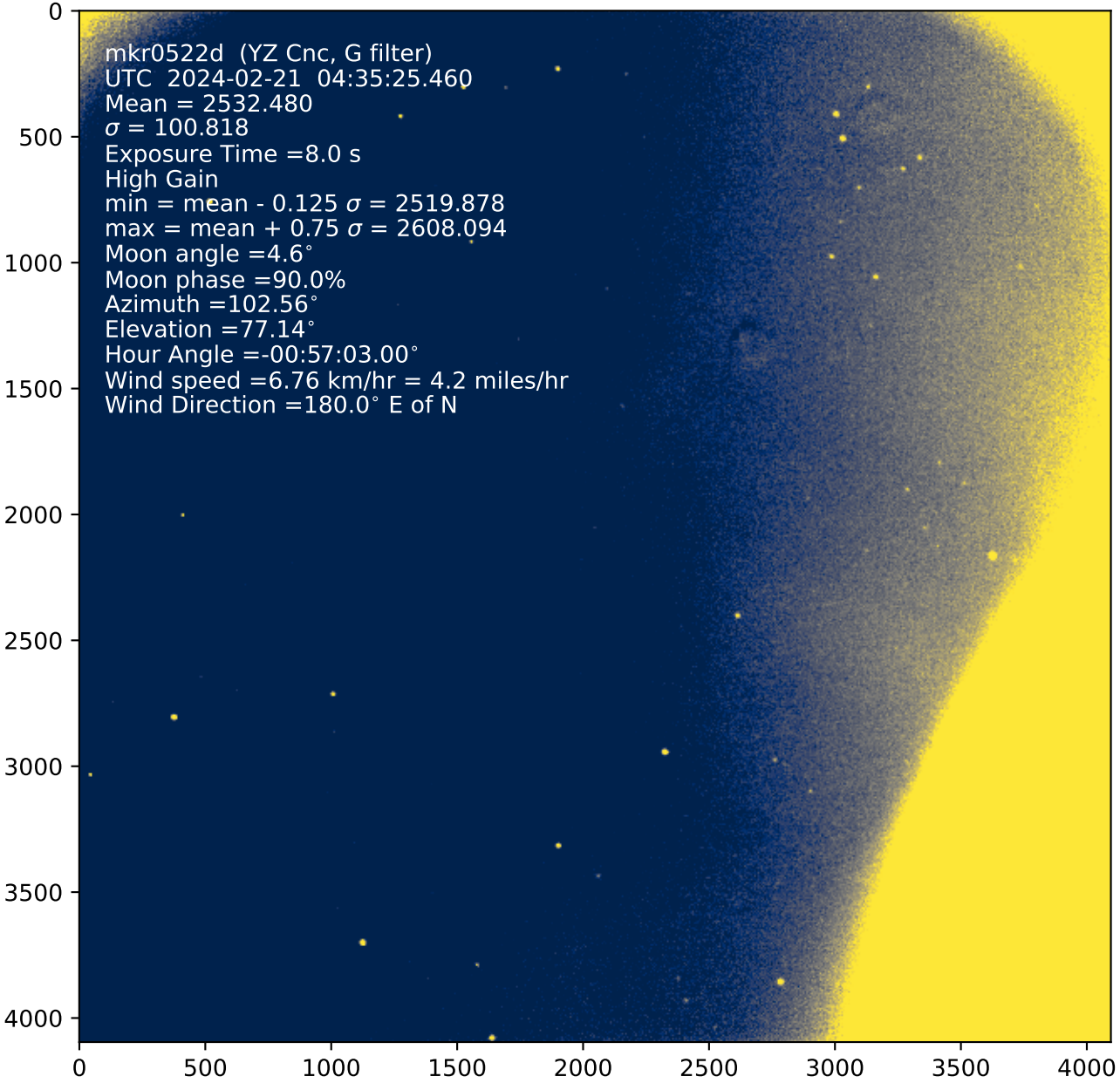
mkr0522d (YZ Cnc, G filter)
UTC 2024-02-21 04:35:25.460
Mean = 2532.480
σ = 100.818
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2519.878
max = mean + 0.75 σ = 2608.094
Moon angle =4.6°
Moon phase =90.0%
Azimuth =102.56°
Elevation =77.14°
Hour Angle =-00:57:03.00°
Wind speed =6.76 km/hr = 4.2 miles/hr
Wind Direction =180.0° E of N
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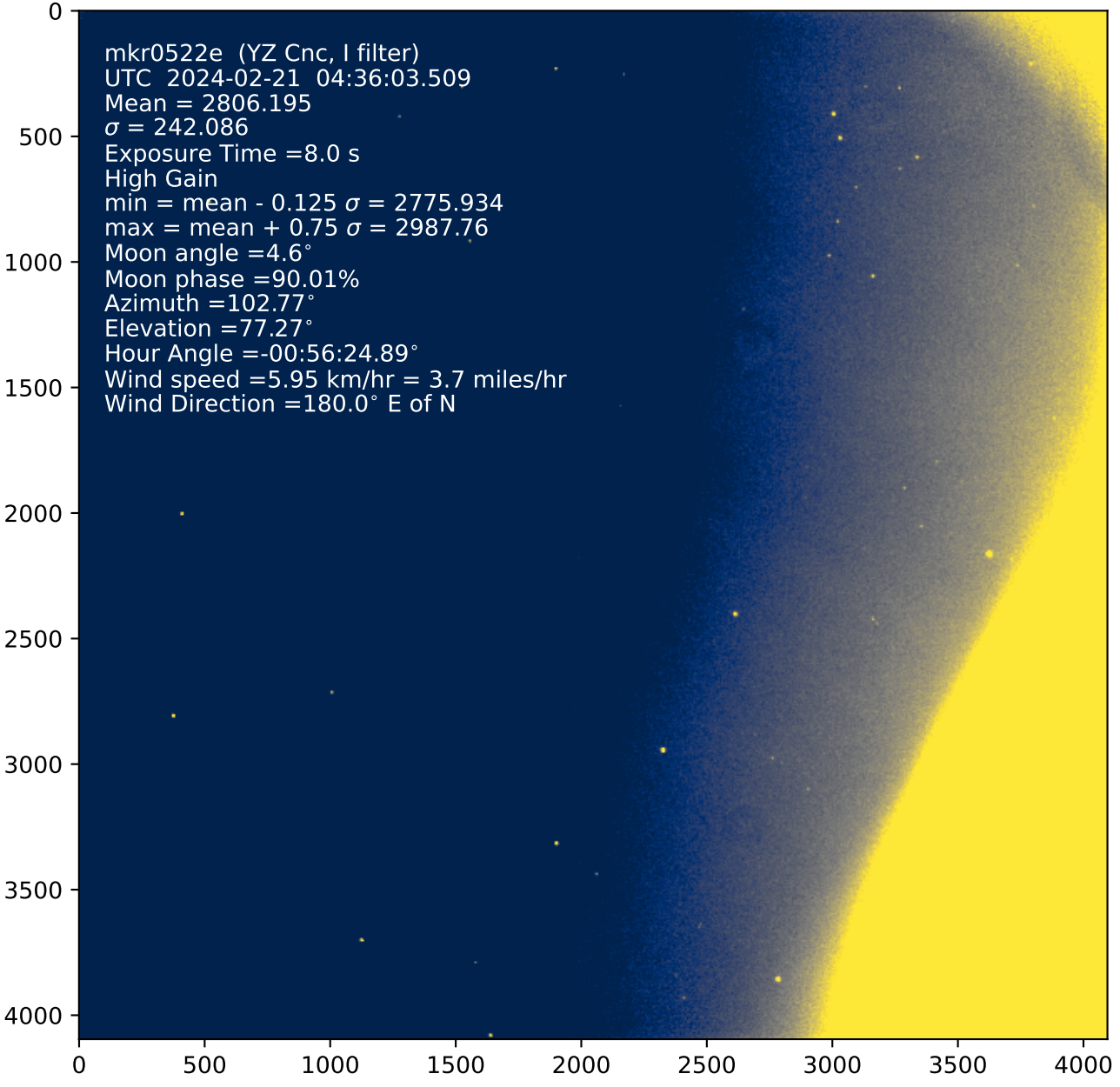
mkr0522e (YZ Cnc, I filter)
UTC 2024-02-21 04:36:03.509
Mean = 2806.195
σ = 242.086
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2775.934
max = mean + 0.75 σ = 2987.76
Moon angle =4.6°
Moon phase =90.01%
Azimuth =102.77°
Elevation =77.27°
Hour Angle =-00:56:24.89°
Wind speed =5.95 km/hr = 3.7 miles/hr
Wind Direction =180.0° E of N
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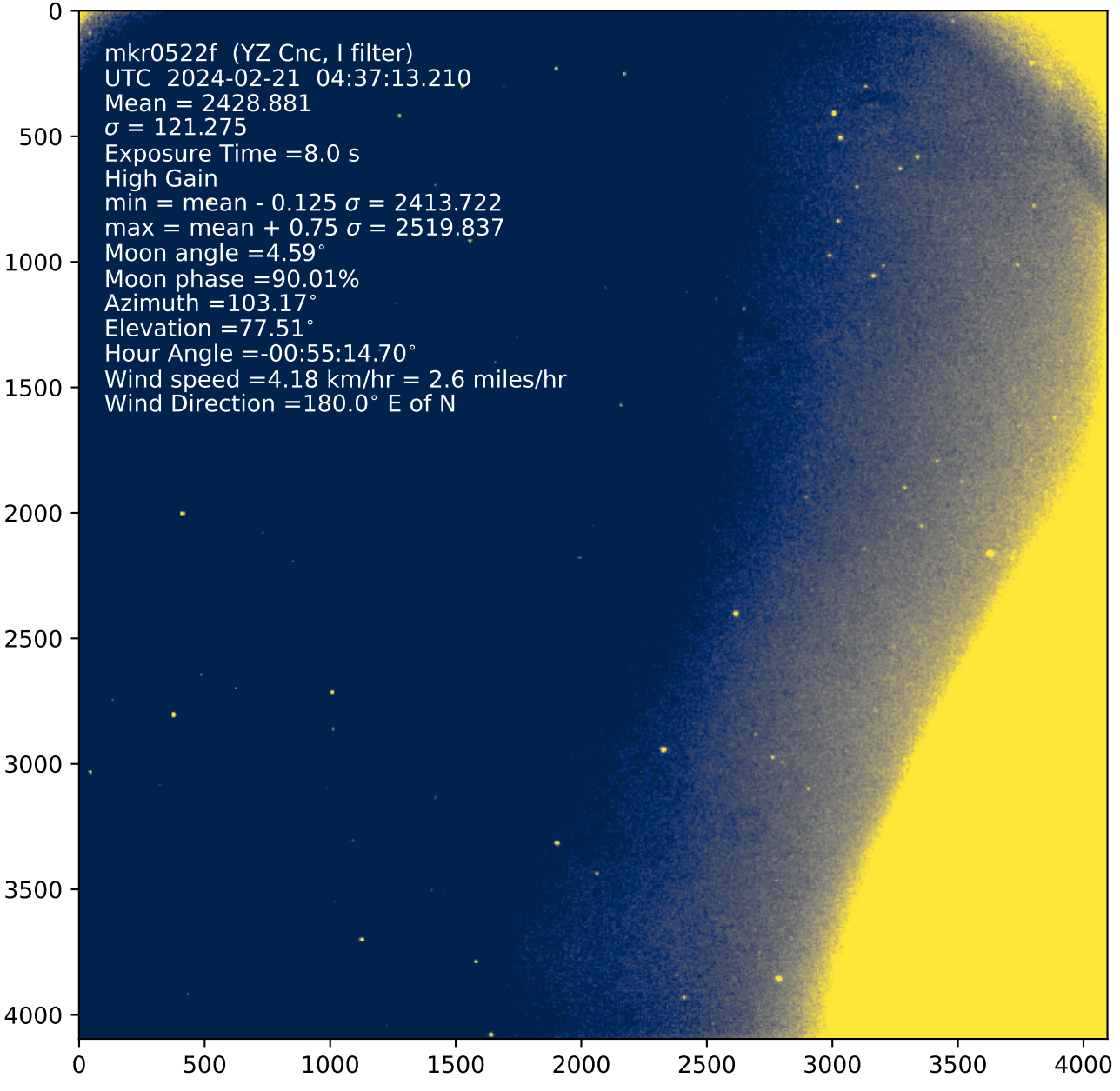
mkr0522f (YZ Cnc, I filter)
UTC 2024-02-21 04:37:13.210
Mean = 2428.881
σ = 121.275
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2413.722
max = mean + 0.75 σ = 2519.837
Moon angle =4.59°
Moon phase =90.01%
Azimuth =103.17°
Elevation =77.51°
Hour Angle =-00:55:14.70°
Wind speed =4.18 km/hr = 2.6 miles/hr
Wind Direction =180.0° E of N
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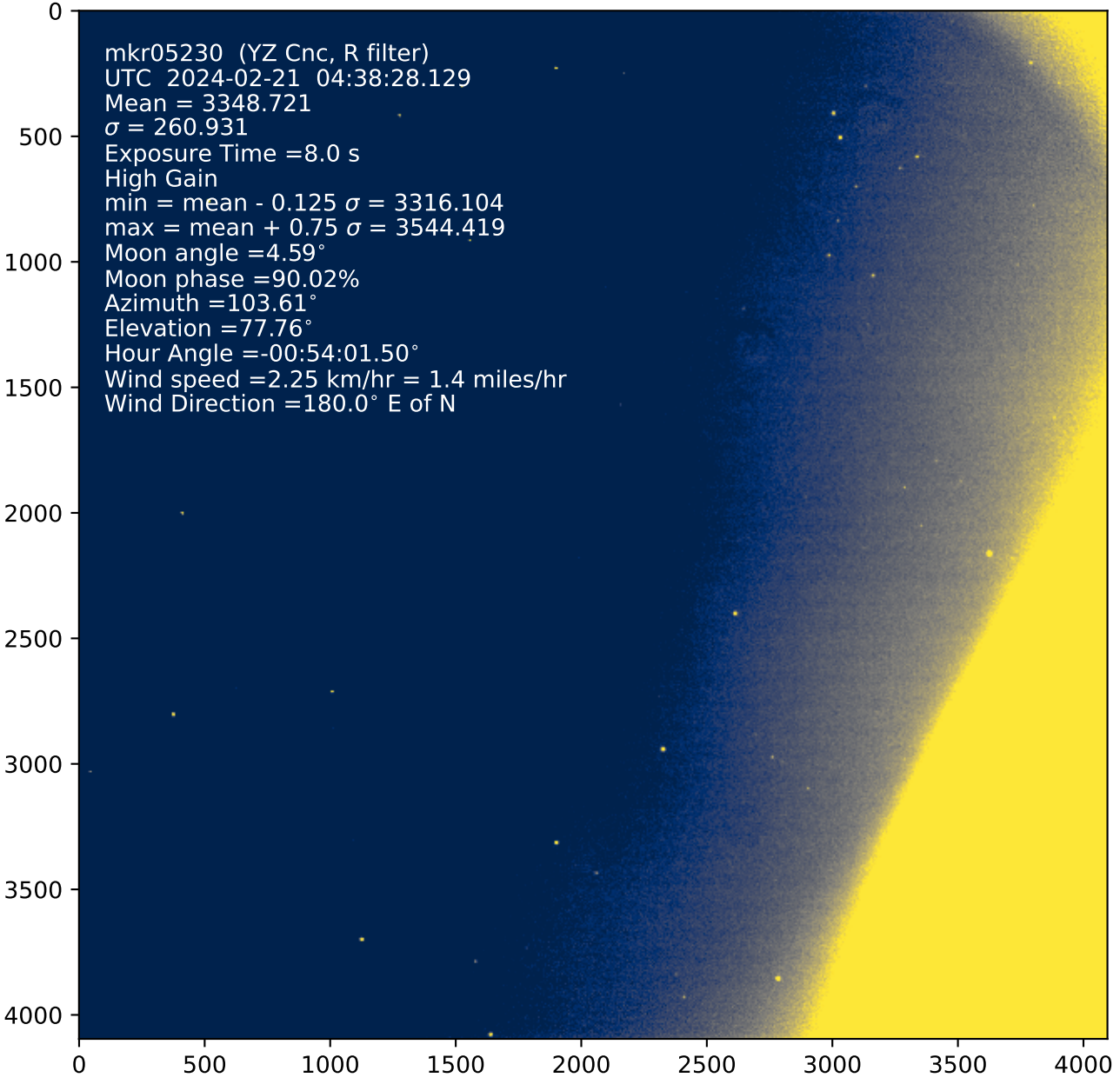
mkr05230 (YZ Cnc, R filter)
UTC 2024-02-21 04:38:28.129
Mean = 3348.721
σ = 260.931
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 3316.104
max = mean + 0.75 σ = 3544.419
Moon angle =4.59°
Moon phase =90.02%
Azimuth =103.61°
Elevation =77.76°
Hour Angle =-00:54:01.50°
Wind speed =2.25 km/hr = 1.4 miles/hr
Wind Direction =180.0° E of N
0
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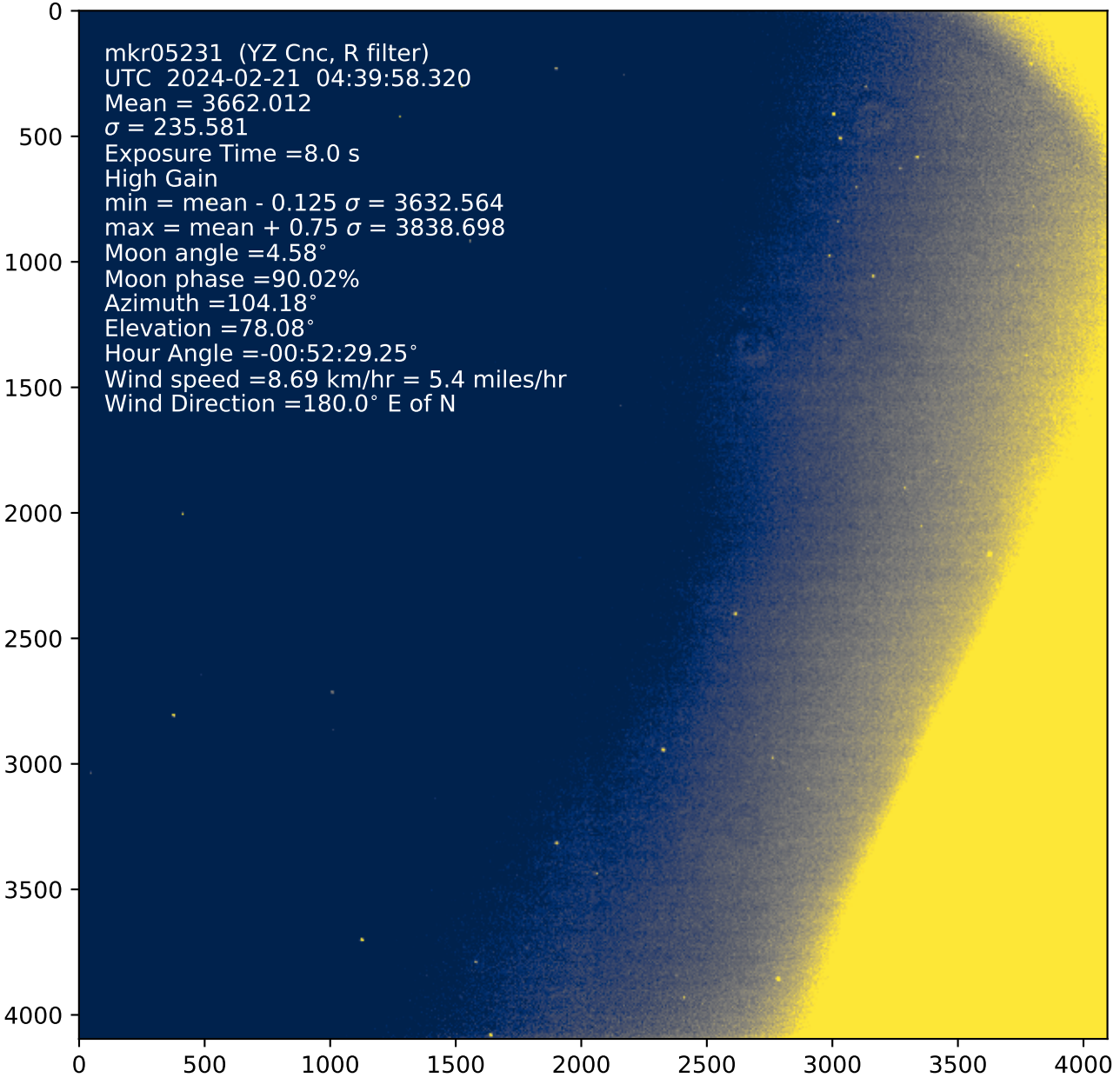
mkr05231 (YZ Cnc, R filter)
UTC 2024-02-21 04:39:58.320
Mean = 3662.012
σ = 235.581
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 3632.564
max = mean + 0.75 σ = 3838.698
Moon angle =4.58°
Moon phase =90.02%
Azimuth =104.18°
Elevation =78.08°
Hour Angle =-00:52:29.25°
Wind speed =8.69 km/hr = 5.4 miles/hr
Wind Direction =180.0° E of N
0
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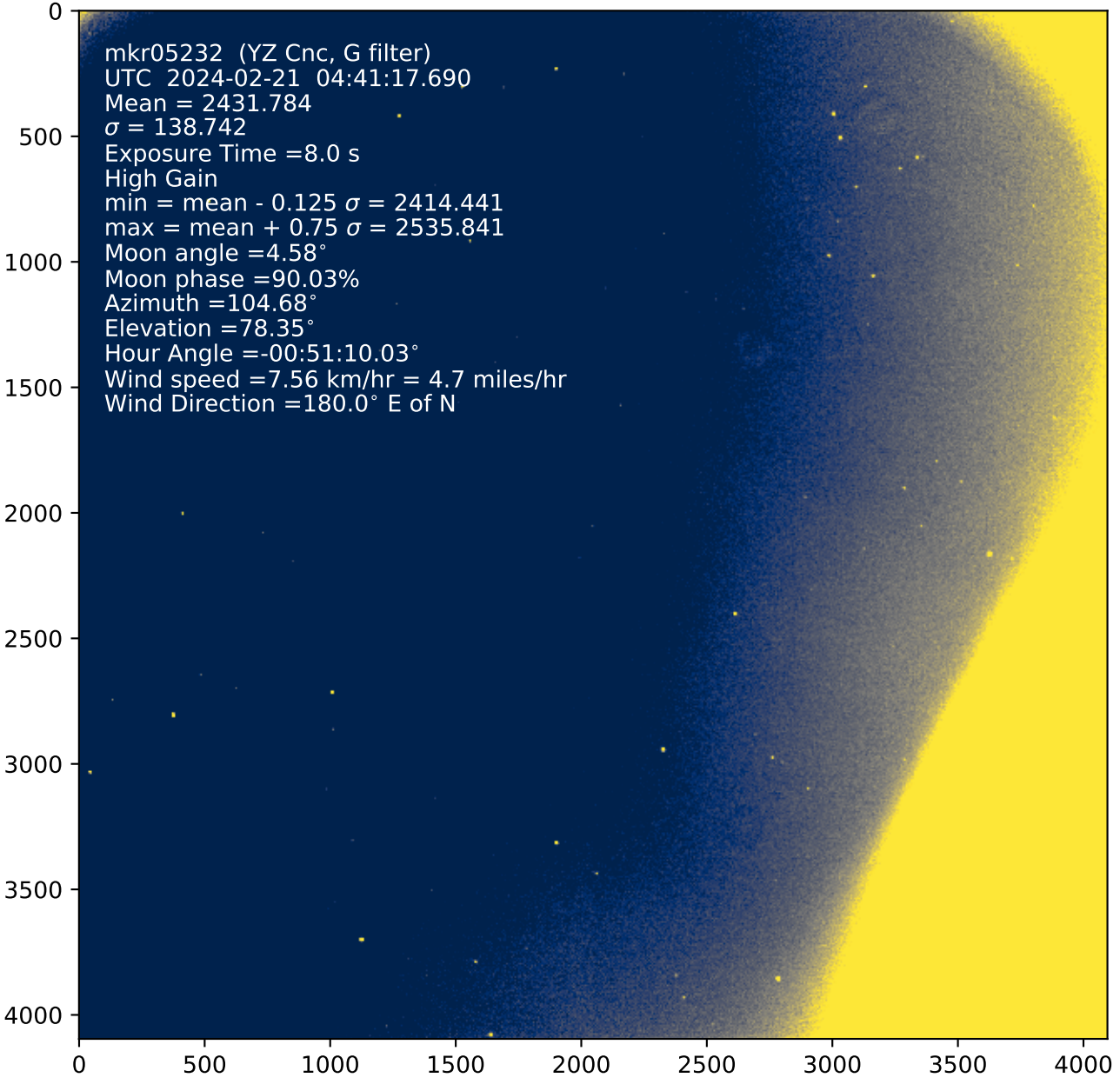
mkr05232 (YZ Cnc, G filter)
UTC 2024-02-21 04:41:17.690
Mean = 2431.784
σ = 138.742
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2414.441
max = mean + 0.75 σ = 2535.841
Moon angle =4.58°
Moon phase =90.03%
Azimuth =104.68°
Elevation =78.35°
Hour Angle =-00:51:10.03°
Wind speed =7.56 km/hr = 4.7 miles/hr
Wind Direction =180.0° E of N
0
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2500
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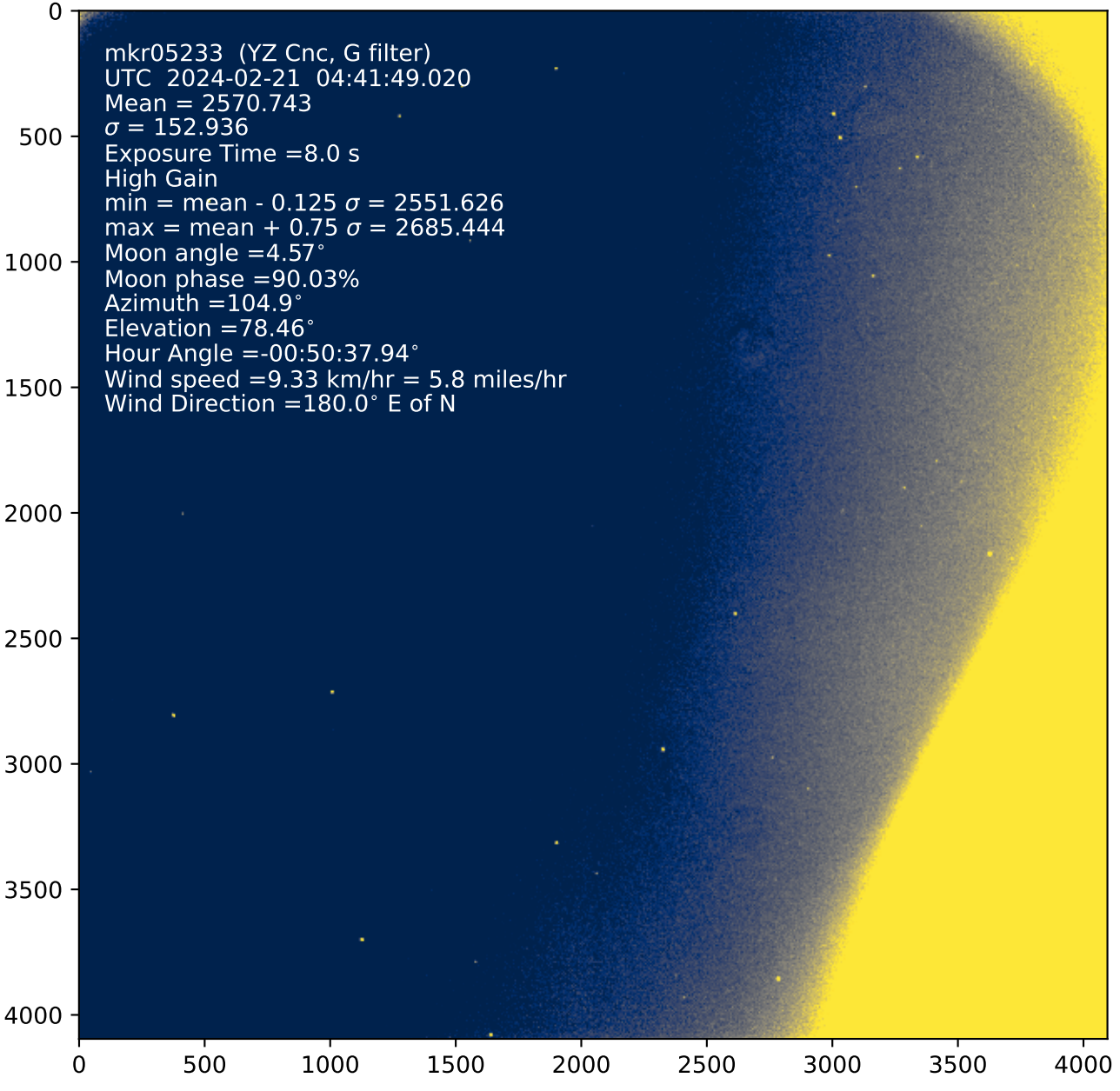
3500
4000


mkr05233 (YZ Cnc, G filter)
UTC 2024-02-21 04:41:49.020
Mean = 2570.743
σ = 152.936
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2551.626
max = mean + 0.75 σ = 2685.444
Moon angle =4.57°
Moon phase =90.03%
Azimuth =104.9°
Elevation =78.46°
Hour Angle =-00:50:37.94°
Wind speed =9.33 km/hr = 5.8 miles/hr
Wind Direction =180.0° E of N
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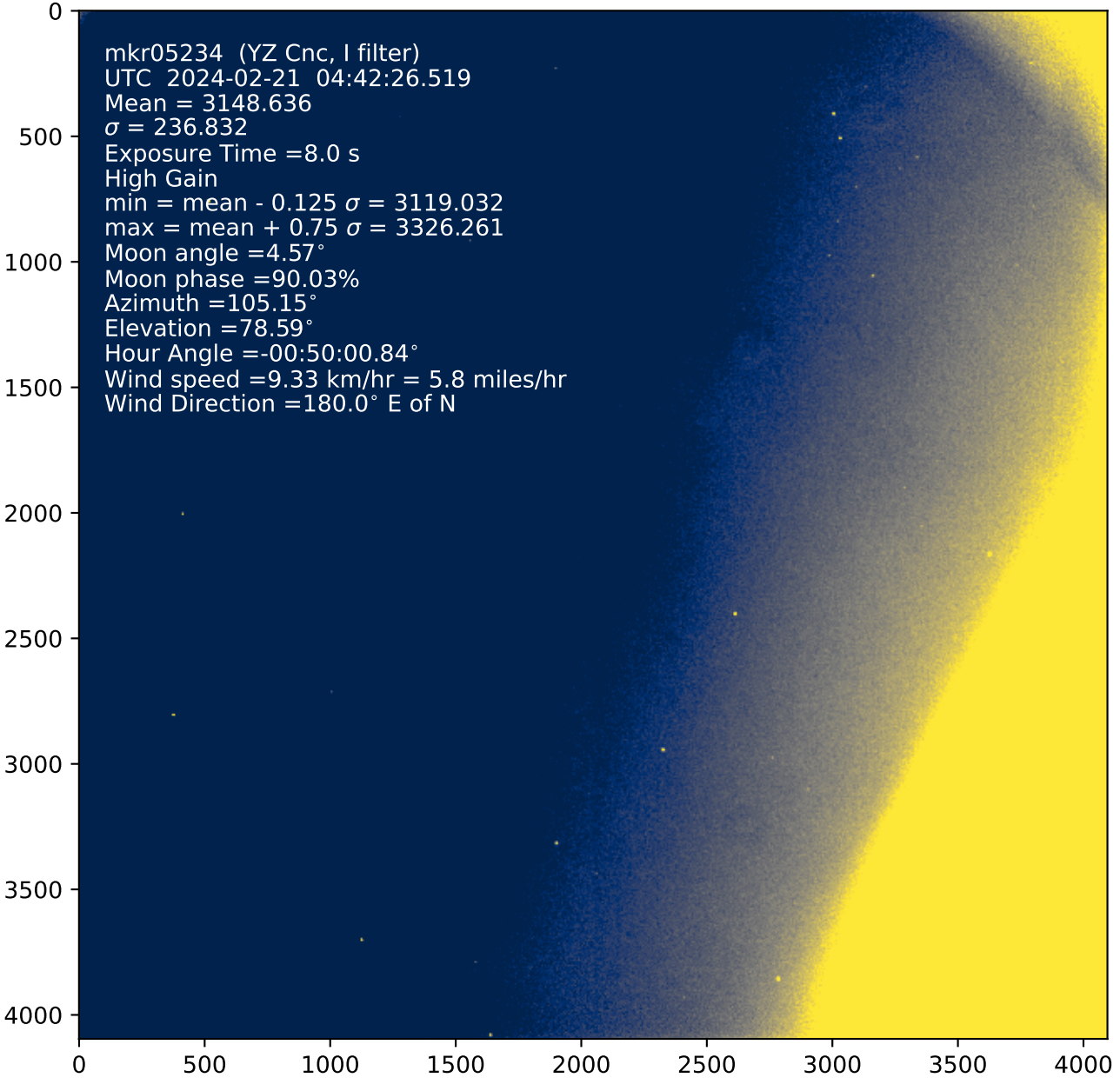
mkr05234 (YZ Cnc, I filter)
UTC 2024-02-21 04:42:26.519
Mean = 3148.636
σ = 236.832
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 3119.032
max = mean + 0.75 σ = 3326.261
Moon angle =4.57°
Moon phase =90.03%
Azimuth =105.15°
Elevation =78.59°
Hour Angle =-00:50:00.84°
Wind speed =9.33 km/hr = 5.8 miles/hr
Wind Direction =180.0° E of N
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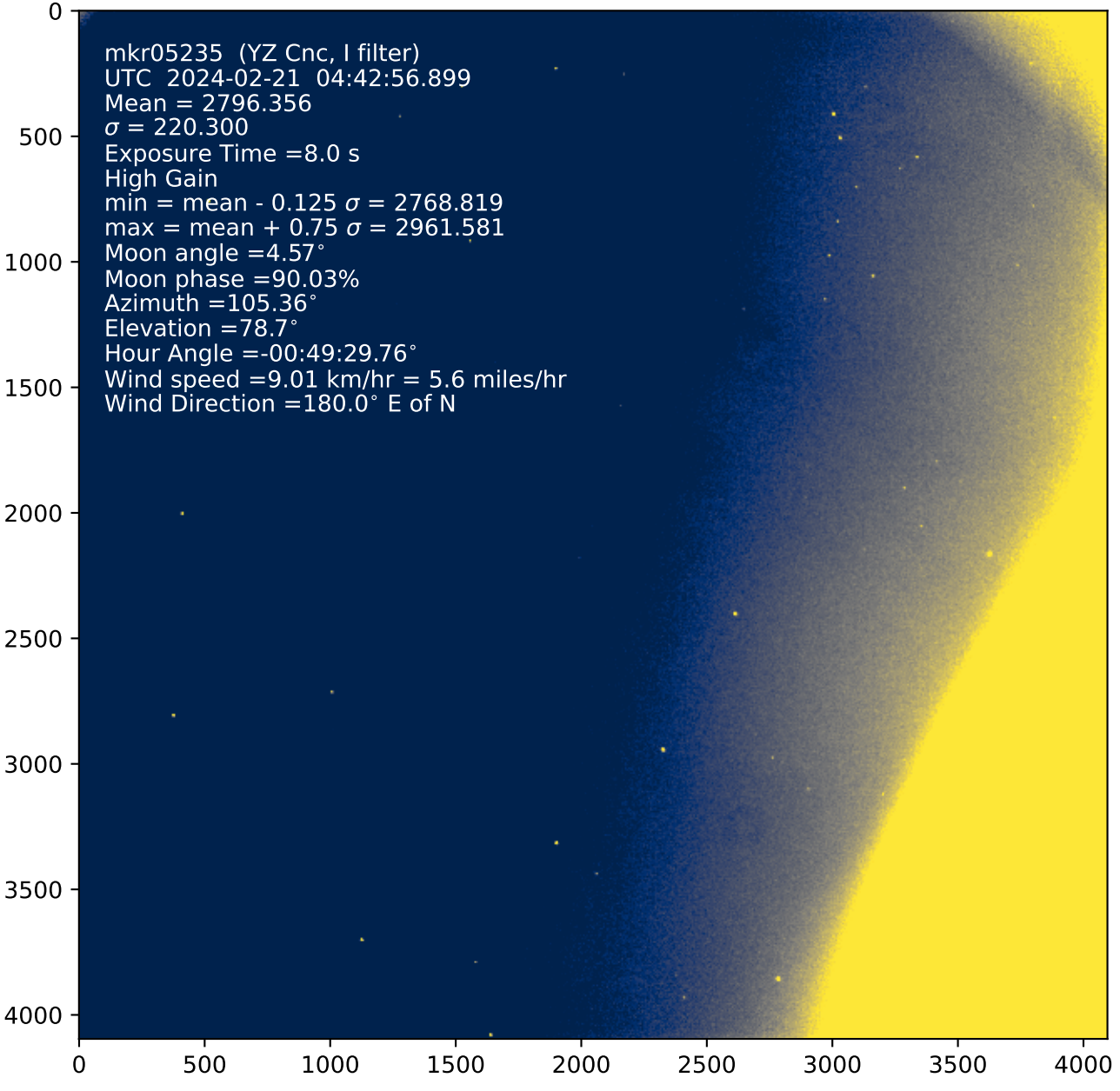
mkr05235 (YZ Cnc, I filter)
UTC 2024-02-21 04:42:56.899
Mean = 2796.356
σ = 220.300
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2768.819
max = mean + 0.75 σ = 2961.581
Moon angle =4.57°
Moon phase =90.03%
Azimuth =105.36°
Elevation =78.7°
Hour Angle =-00:49:29.76°
Wind speed =9.01 km/hr = 5.6 miles/hr
Wind Direction =180.0° E of N
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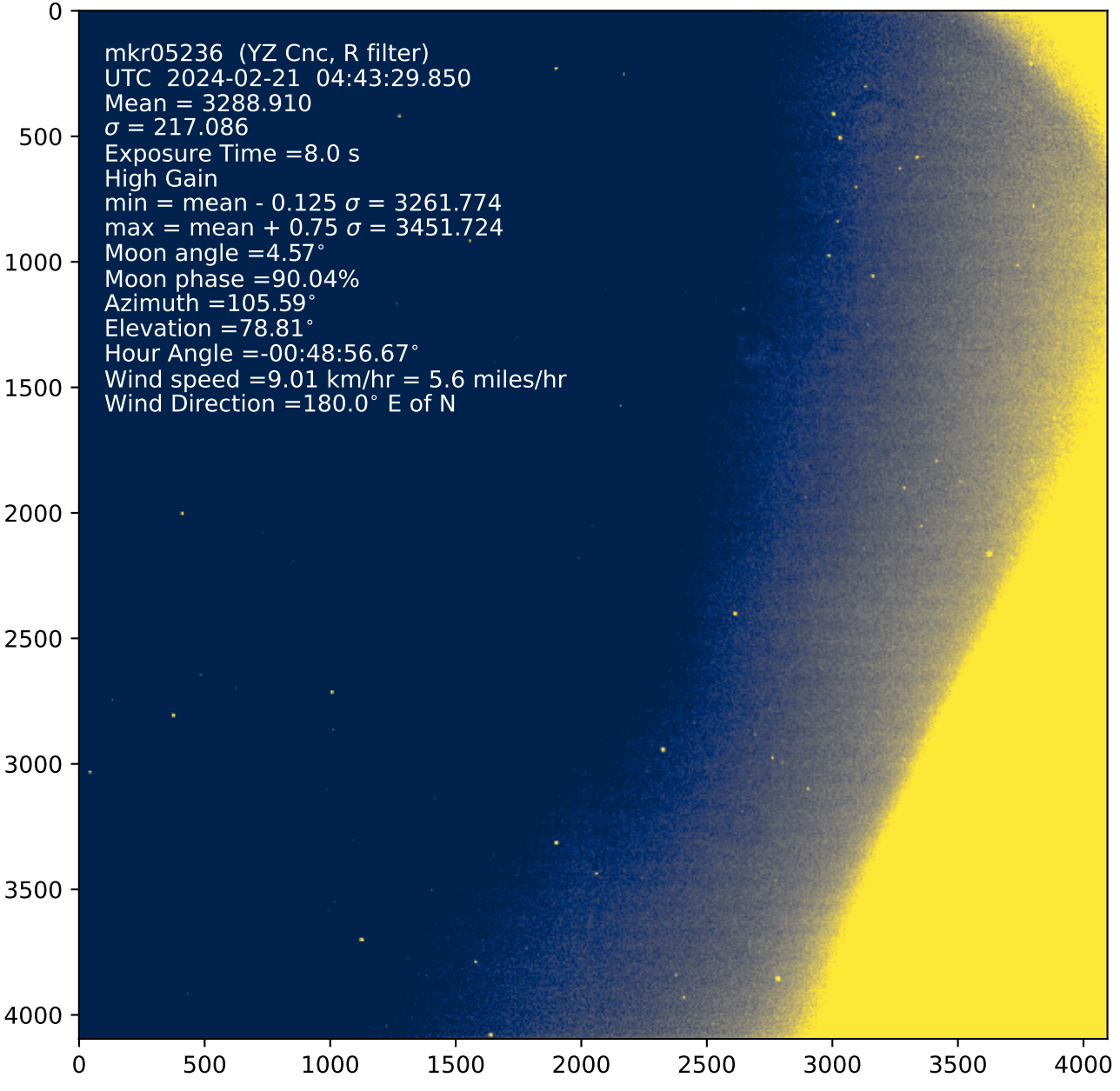
mkr05236 (YZ Cnc, R filter)
UTC 2024-02-21 04:43:29.850
Mean = 3288.910
σ = 217.086
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 3261.774
max = mean + 0.75 σ = 3451.724
Moon angle =4.57°
Moon phase =90.04%
Azimuth =105.59°
Elevation =78.81°
Hour Angle =-00:48:56.67°
Wind speed =9.01 km/hr = 5.6 miles/hr
Wind Direction =180.0° E of N
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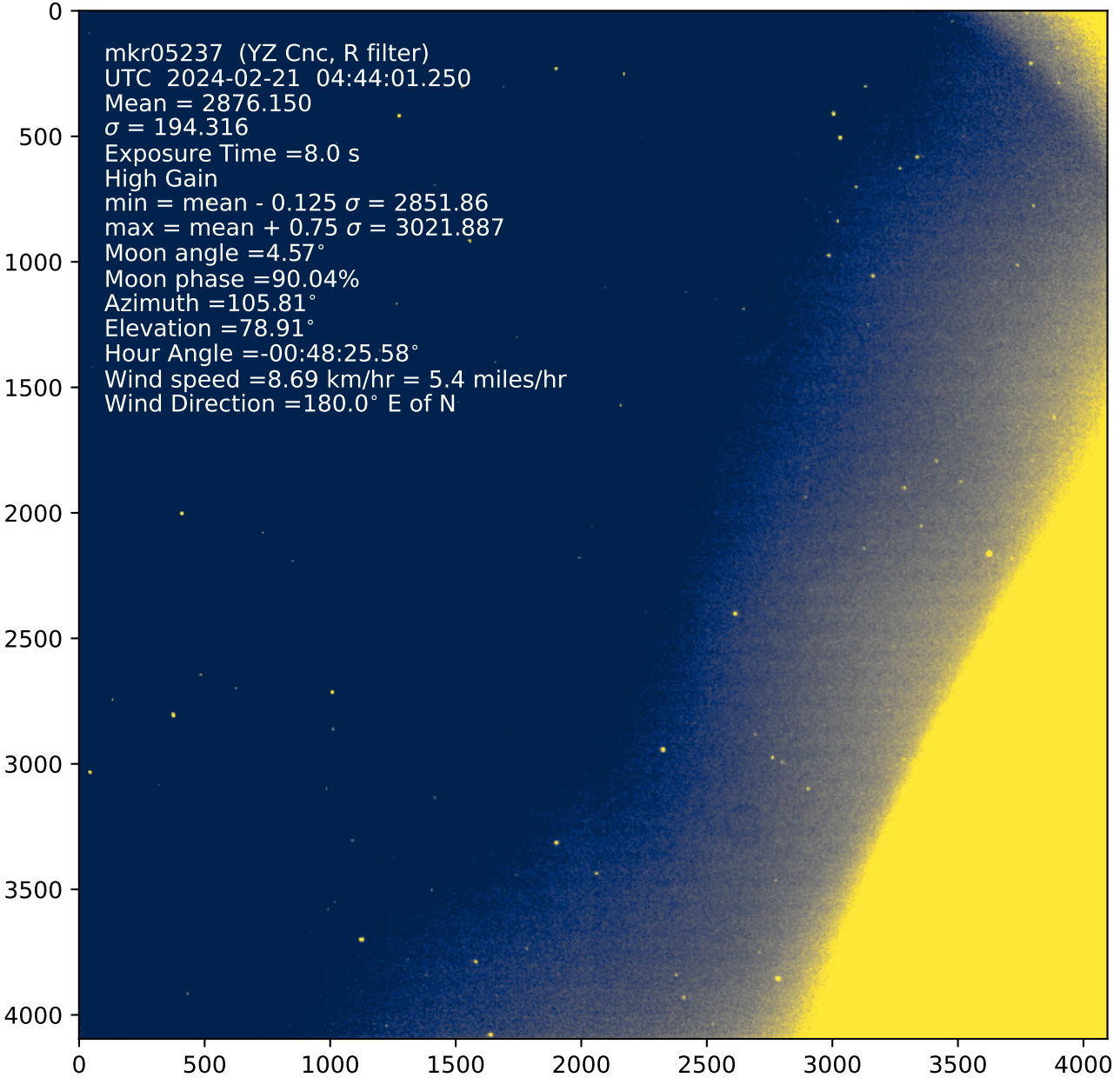
mkr05237 (YZ Cnc, R filter)
UTC 2024-02-21 04:44:01.250
Mean = 2876.150
σ = 194.316
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2851.86
max = mean + 0.75 σ = 3021.887
Moon angle =4.57°
Moon phase =90.04%
Azimuth =105.81°
Elevation =78.91°
Hour Angle =-00:48:25.58°
Wind speed =8.69 km/hr = 5.4 miles/hr
Wind Direction =180.0° E of N
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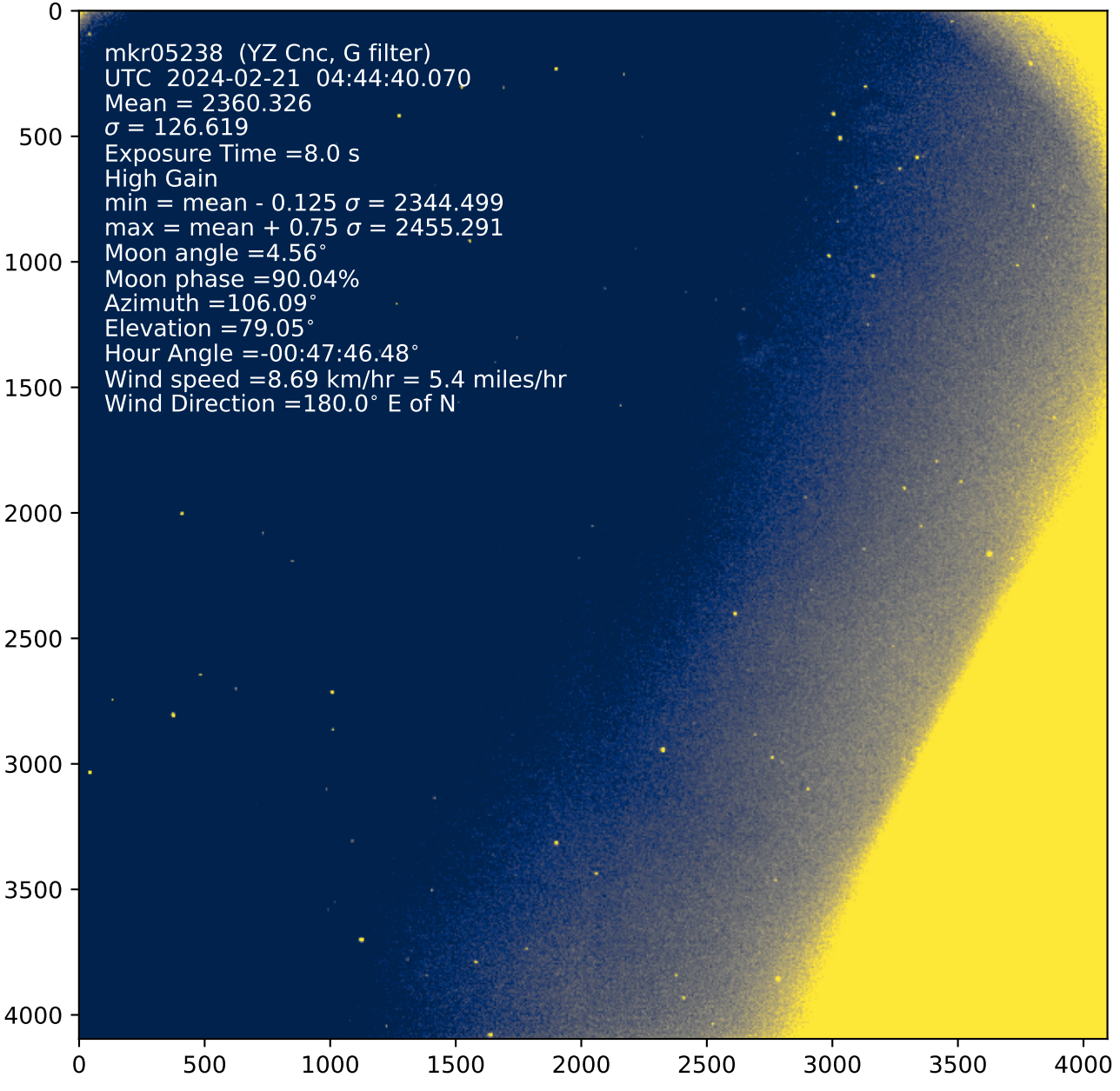
mkr05238 (YZ Cnc, G filter)
UTC 2024-02-21 04:44:40.070
Mean = 2360.326
σ = 126.619
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2344.499
max = mean + 0.75 σ = 2455.291
Moon angle =4.56°
Moon phase =90.04%
Azimuth =106.09°
Elevation =79.05°
Hour Angle =-00:47:46.48°
Wind speed =8.69 km/hr = 5.4 miles/hr
Wind Direction =180.0° E of N
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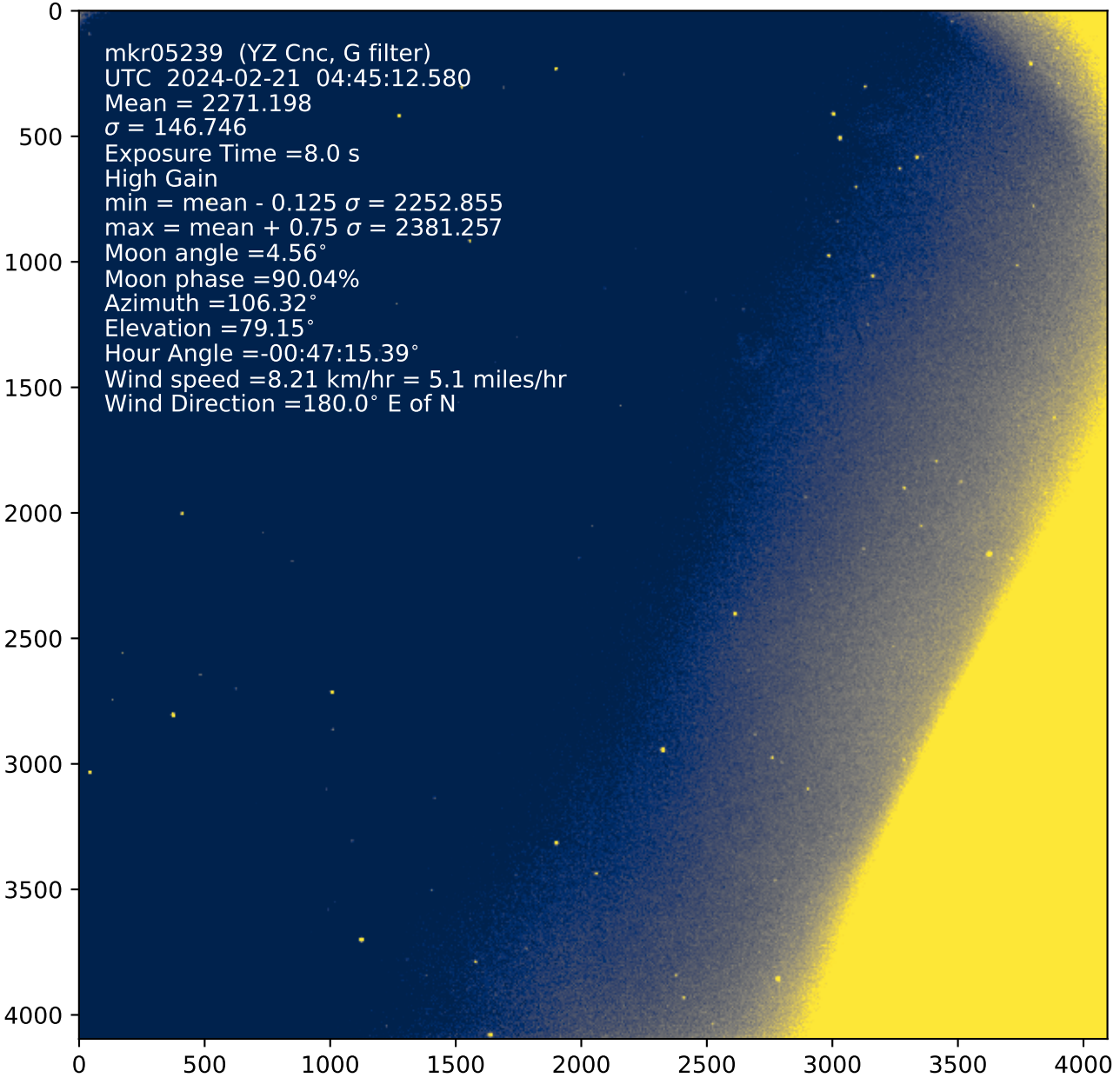
mkr05239 (YZ Cnc, G filter)
UTC 2024-02-21 04:45:12.580
Mean = 2271.198
σ = 146.746
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2252.855
max = mean + 0.75 σ = 2381.257
Moon angle =4.56°
Moon phase =90.04%
Azimuth =106.32°
Elevation =79.15°
Hour Angle =-00:47:15.39°
Wind speed =8.21 km/hr = 5.1 miles/hr
Wind Direction =180.0° E of N
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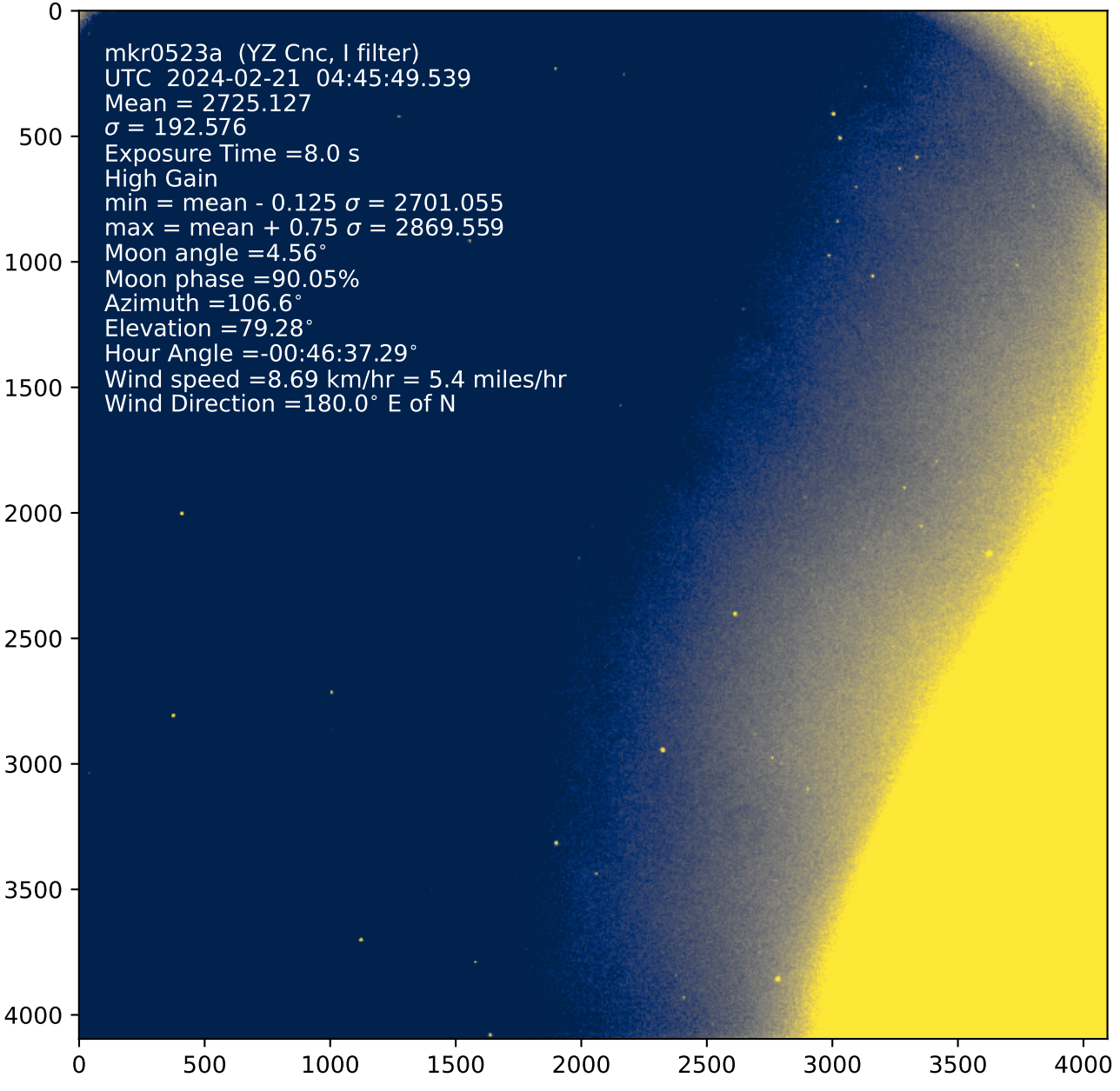
mkr0523a (YZ Cnc, I filter)
UTC 2024-02-21 04:45:49.539
Mean = 2725.127
σ = 192.576
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2701.055
max = mean + 0.75 σ = 2869.559
Moon angle =4.56°
Moon phase =90.05%
Azimuth =106.6°
Elevation =79.28°
Hour Angle =-00:46:37.29°
Wind speed =8.69 km/hr = 5.4 miles/hr
Wind Direction =180.0° E of N
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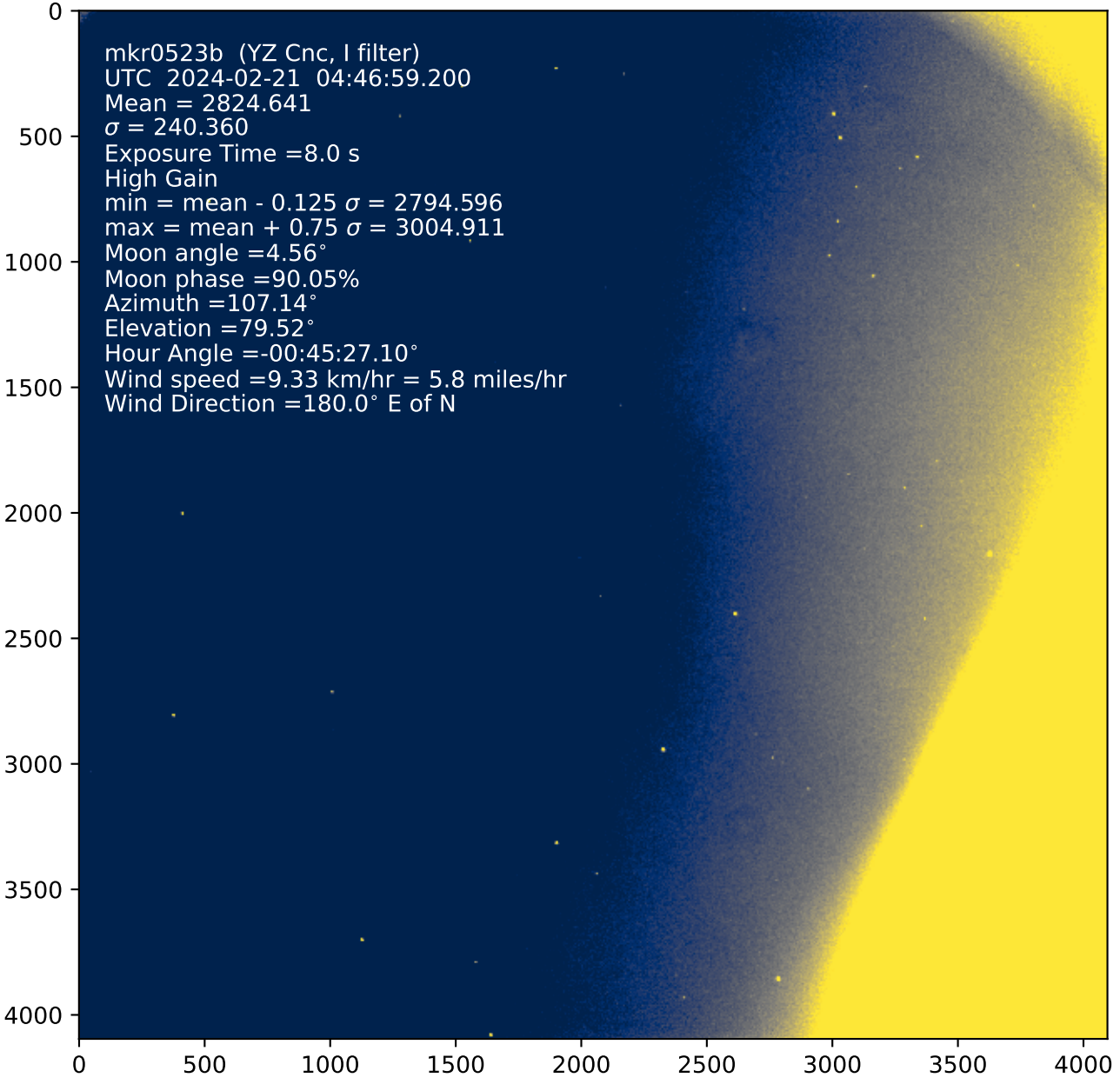
mkr0523b (YZ Cnc, I filter)
UTC 2024-02-21 04:46:59.200
Mean = 2824.641
σ = 240.360
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2794.596
max = mean + 0.75 σ = 3004.911
Moon angle =4.56°
Moon phase =90.05%
Azimuth =107.14°
Elevation =79.52°
Hour Angle =-00:45:27.10°
Wind speed =9.33 km/hr = 5.8 miles/hr
Wind Direction =180.0° E of N
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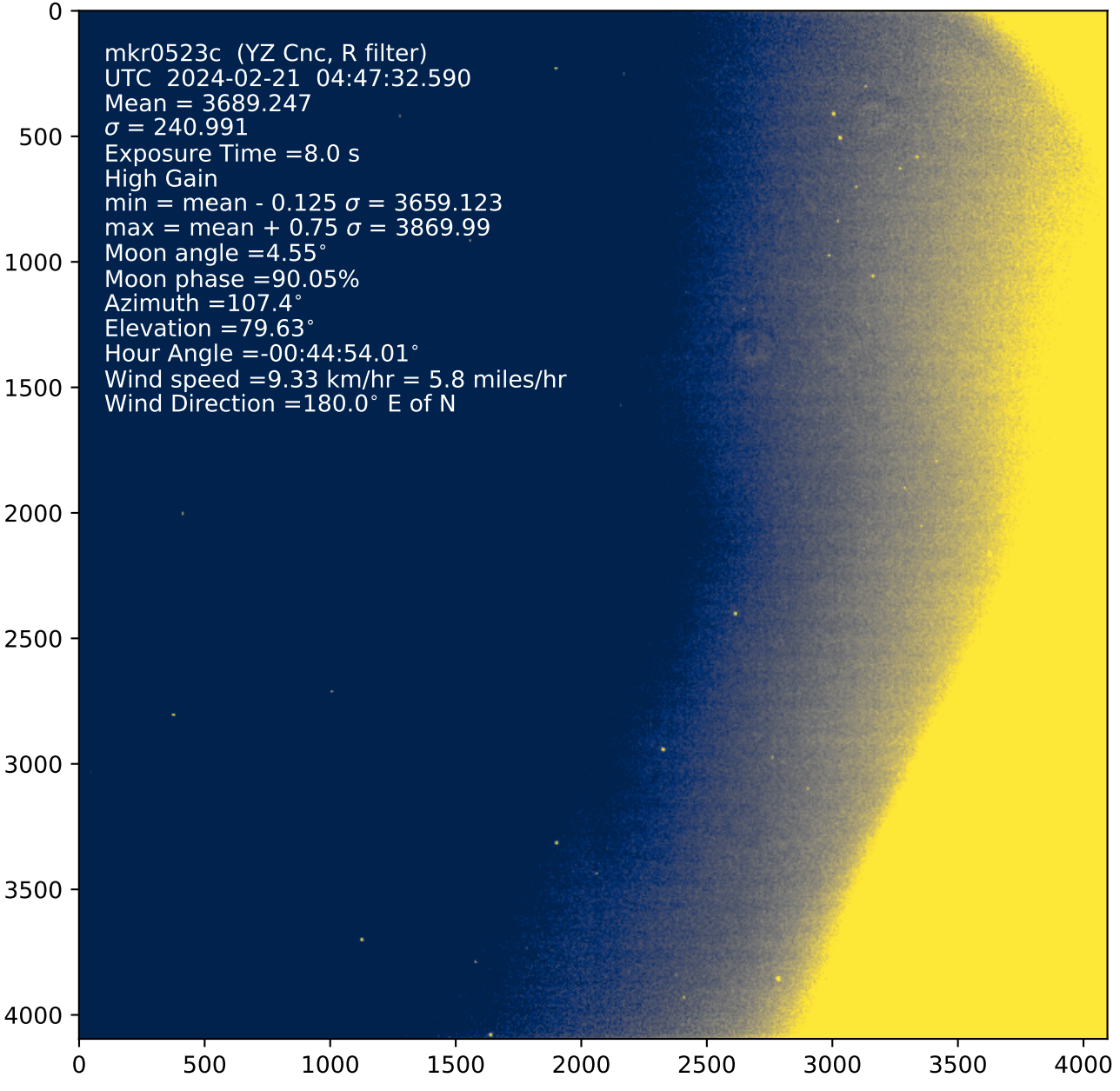
mkr0523c (YZ Cnc, R filter)
UTC 2024-02-21 04:47:32.590
Mean = 3689.247
σ = 240.991
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 3659.123
max = mean + 0.75 σ = 3869.99
Moon angle =4.55°
Moon phase =90.05%
Azimuth =107.4°
Elevation =79.63°
Hour Angle =-00:44:54.01°
Wind speed =9.33 km/hr = 5.8 miles/hr
Wind Direction =180.0° E of N
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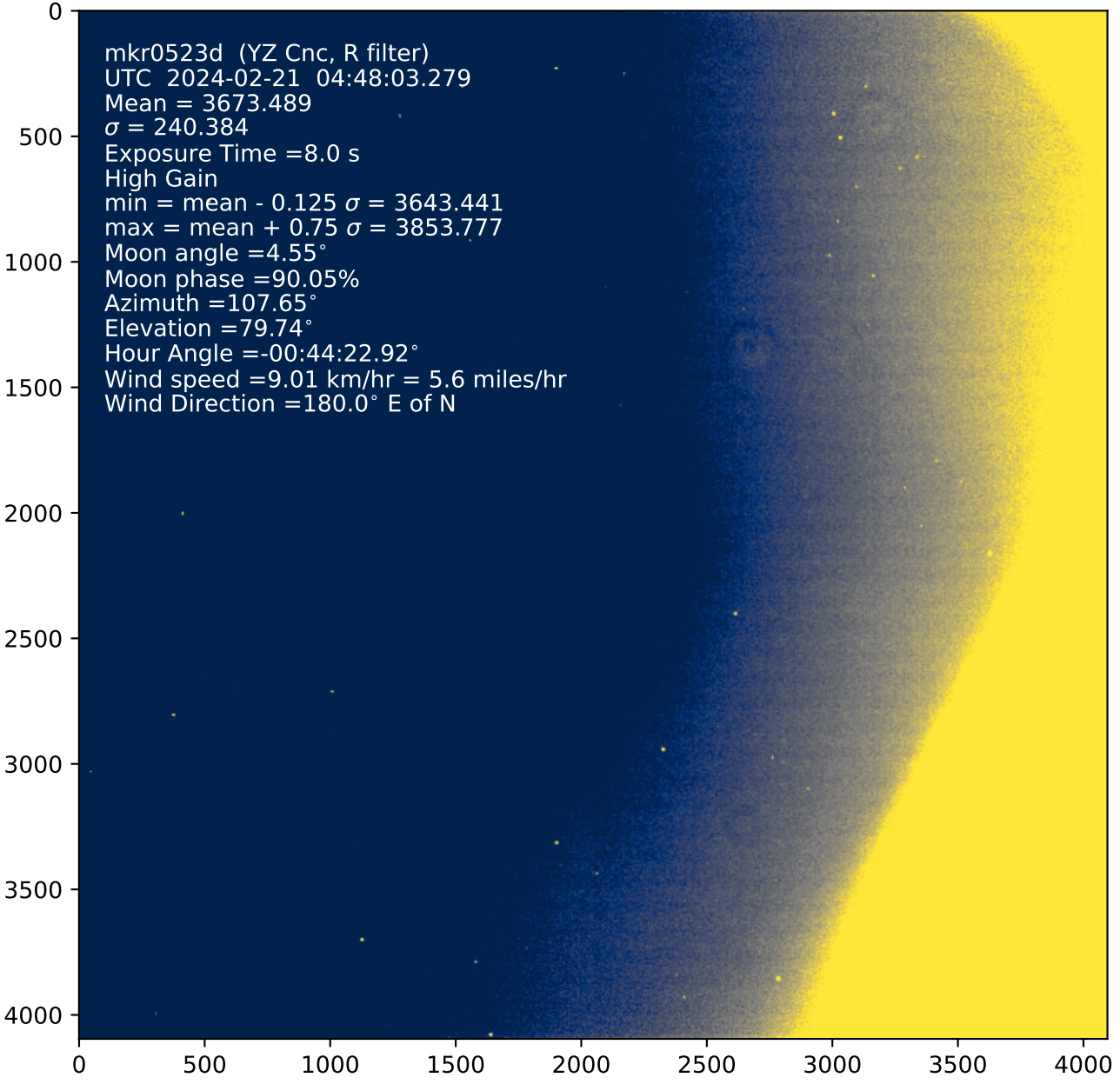
mkr0523d (YZ Cnc, R filter)
UTC 2024-02-21 04:48:03.279
Mean = 3673.489
σ = 240.384
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 3643.441
max = mean + 0.75 σ = 3853.777
Moon angle =4.55°
Moon phase =90.05%
Azimuth =107.65°
Elevation =79.74°
Hour Angle =-00:44:22.92°
Wind speed =9.01 km/hr = 5.6 miles/hr
Wind Direction =180.0° E of N
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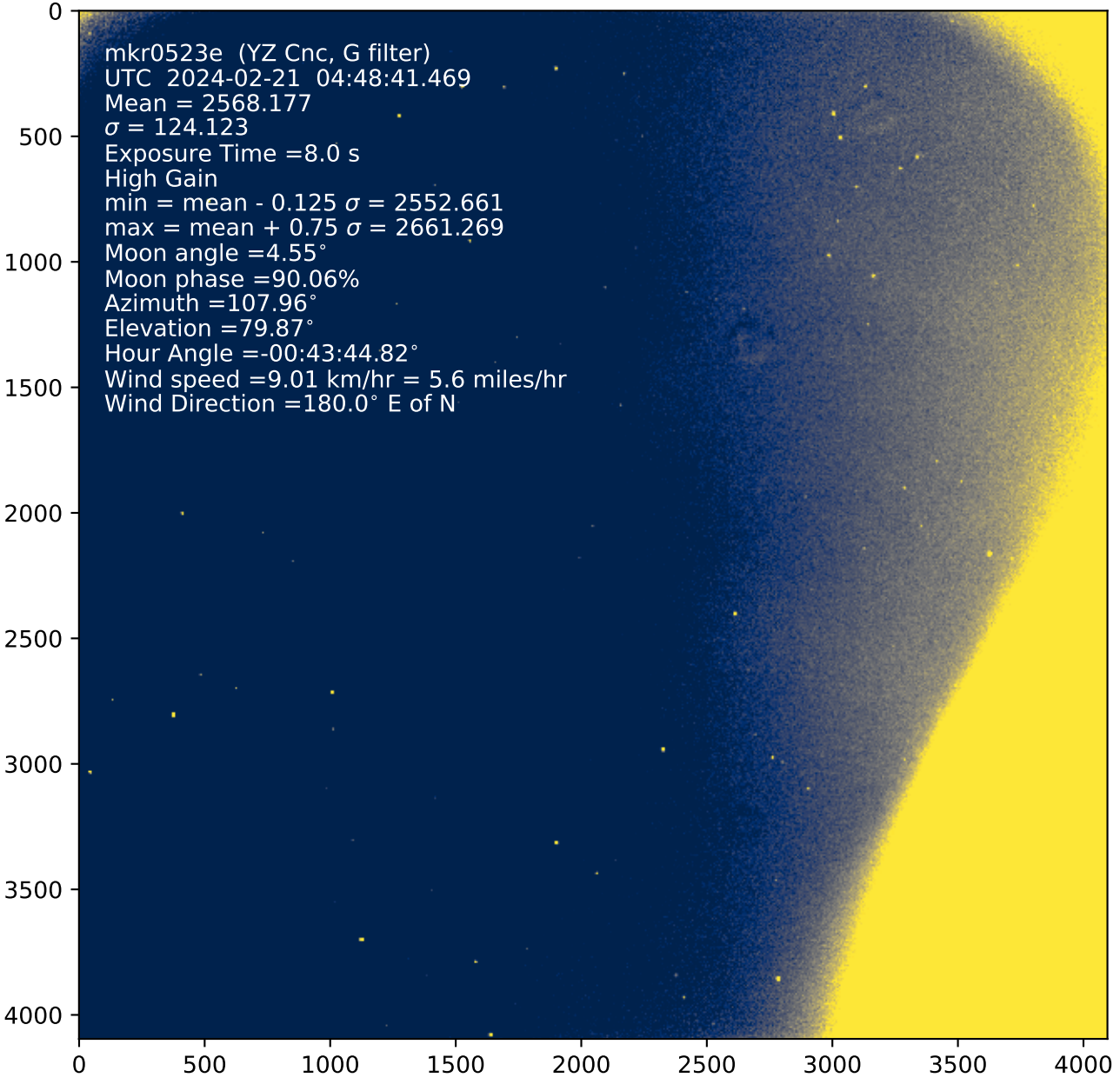
mkr0523e (YZ Cnc, G filter)
UTC 2024-02-21 04:48:41.469
Mean = 2568.177
σ = 124.123
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2552.661
max = mean + 0.75 σ = 2661.269
Moon angle =4.55°
Moon phase =90.06%
Azimuth =107.96°
Elevation =79.87°
Hour Angle =-00:43:44.82°
Wind speed =9.01 km/hr = 5.6 miles/hr
Wind Direction =180.0° E of N
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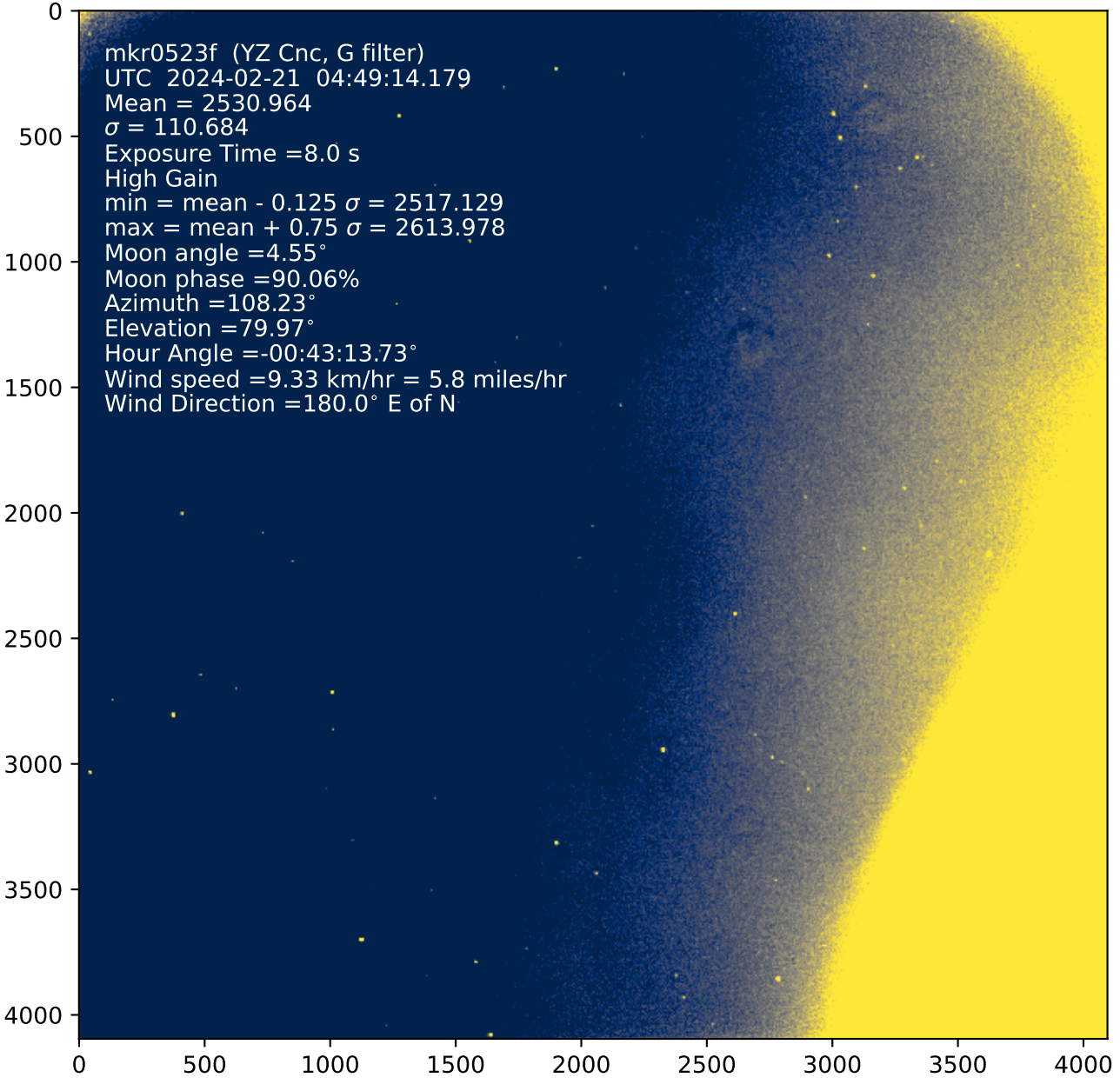
mkr0523f (YZ Cnc, G filter)
UTC 2024-02-21 04:49:14.179
Mean = 2530.964
σ = 110.684
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2517.129
max = mean + 0.75 σ = 2613.978
Moon angle =4.55°
Moon phase =90.06%
Azimuth =108.23°
Elevation =79.97°
Hour Angle =-00:43:13.73°
Wind speed =9.33 km/hr = 5.8 miles/hr
Wind Direction =180.0° E of N
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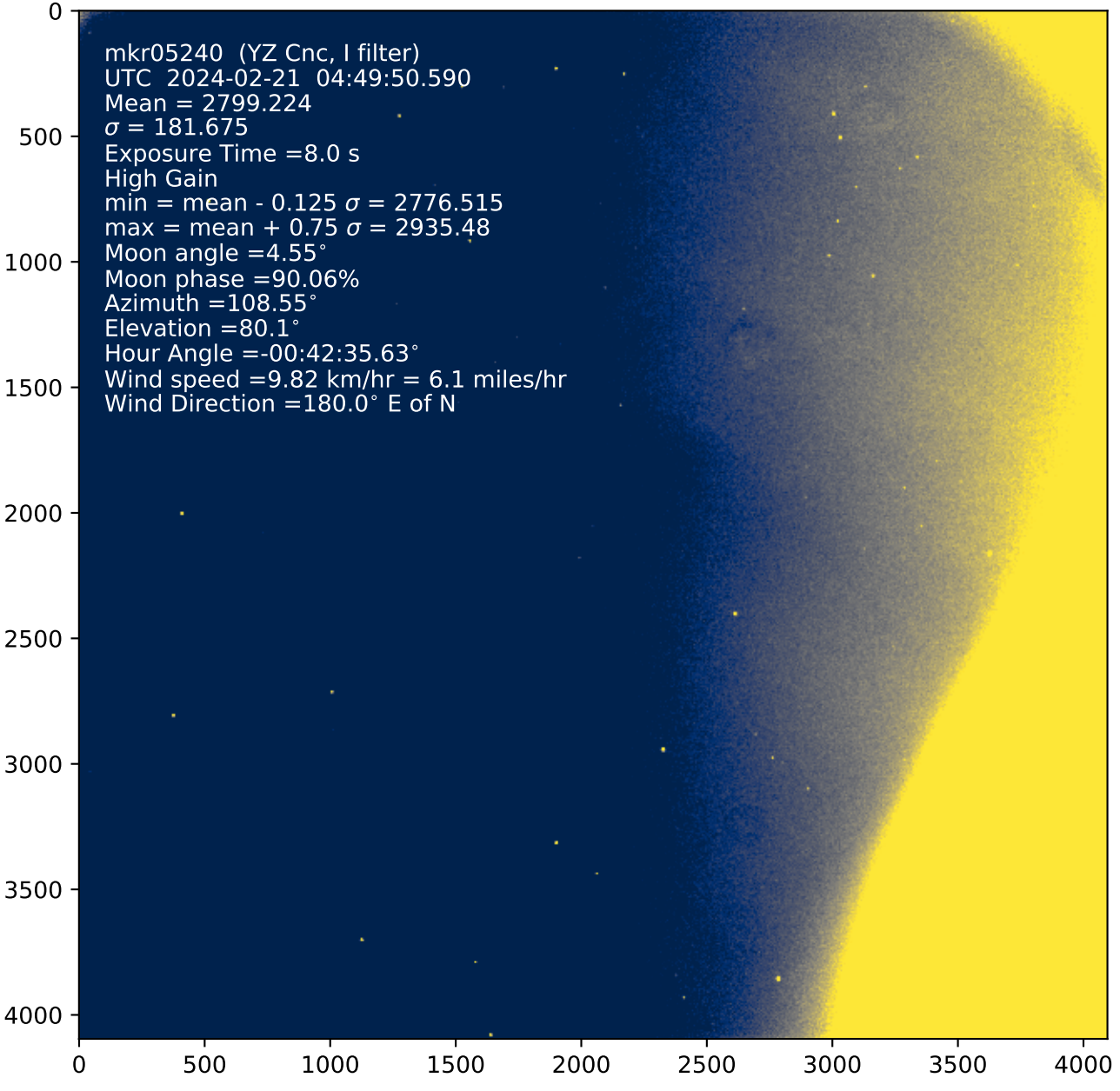
mkr05240 (YZ Cnc, I filter)
UTC 2024-02-21 04:49:50.590
Mean = 2799.224
σ = 181.675
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2776.515
max = mean + 0.75 σ = 2935.48
Moon angle =4.55°
Moon phase =90.06%
Azimuth =108.55°
Elevation =80.1°
Hour Angle =-00:42:35.63°
Wind speed =9.82 km/hr = 6.1 miles/hr
Wind Direction =180.0° E of N
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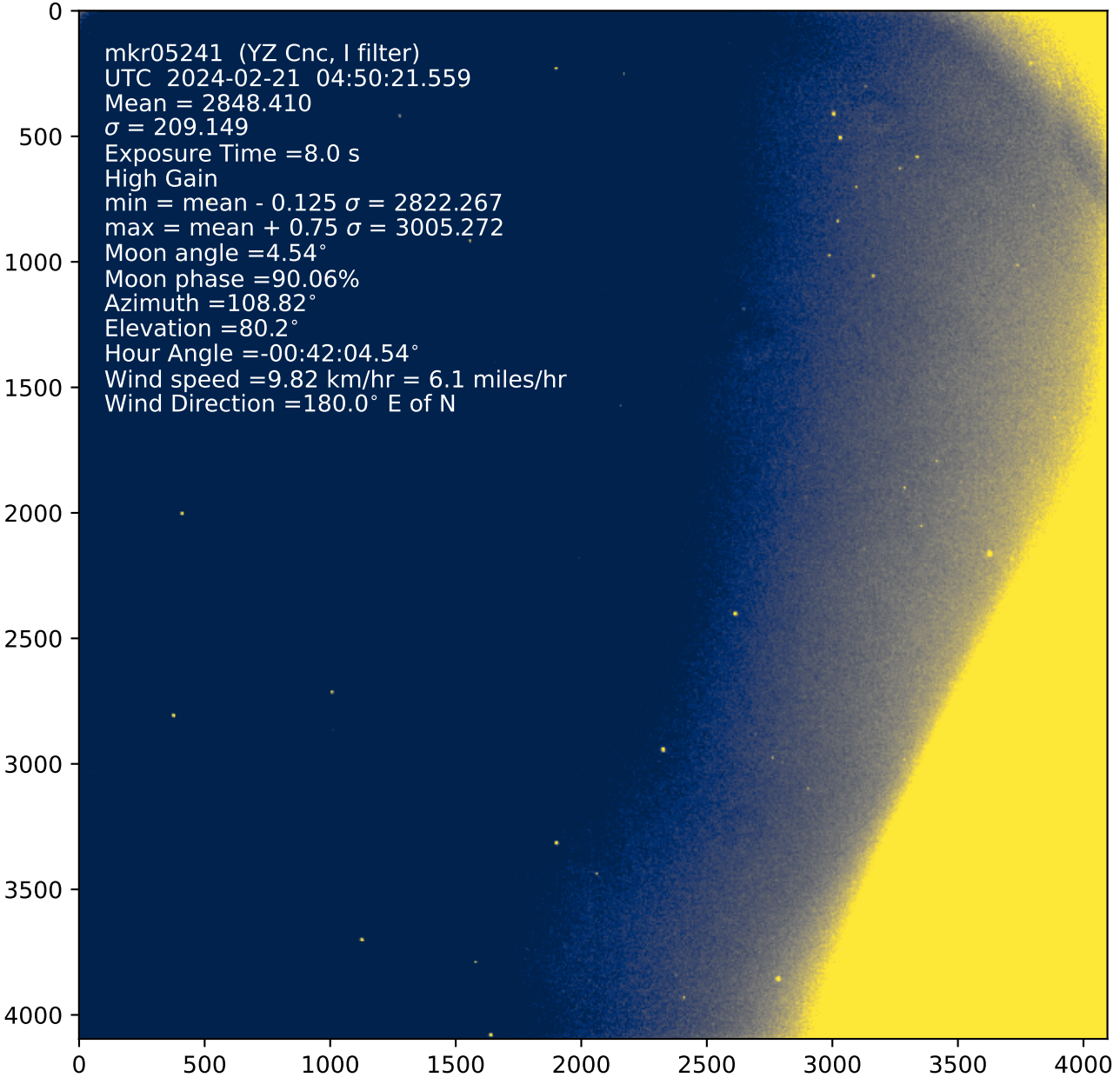
mkr05241 (YZ Cnc, I filter)
UTC 2024-02-21 04:50:21.559
Mean = 2848.410
σ = 209.149
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2822.267
max = mean + 0.75 σ = 3005.272
Moon angle =4.54°
Moon phase =90.06%
Azimuth =108.82°
Elevation =80.2°
Hour Angle =-00:42:04.54°
Wind speed =9.82 km/hr = 6.1 miles/hr
Wind Direction =180.0° E of N
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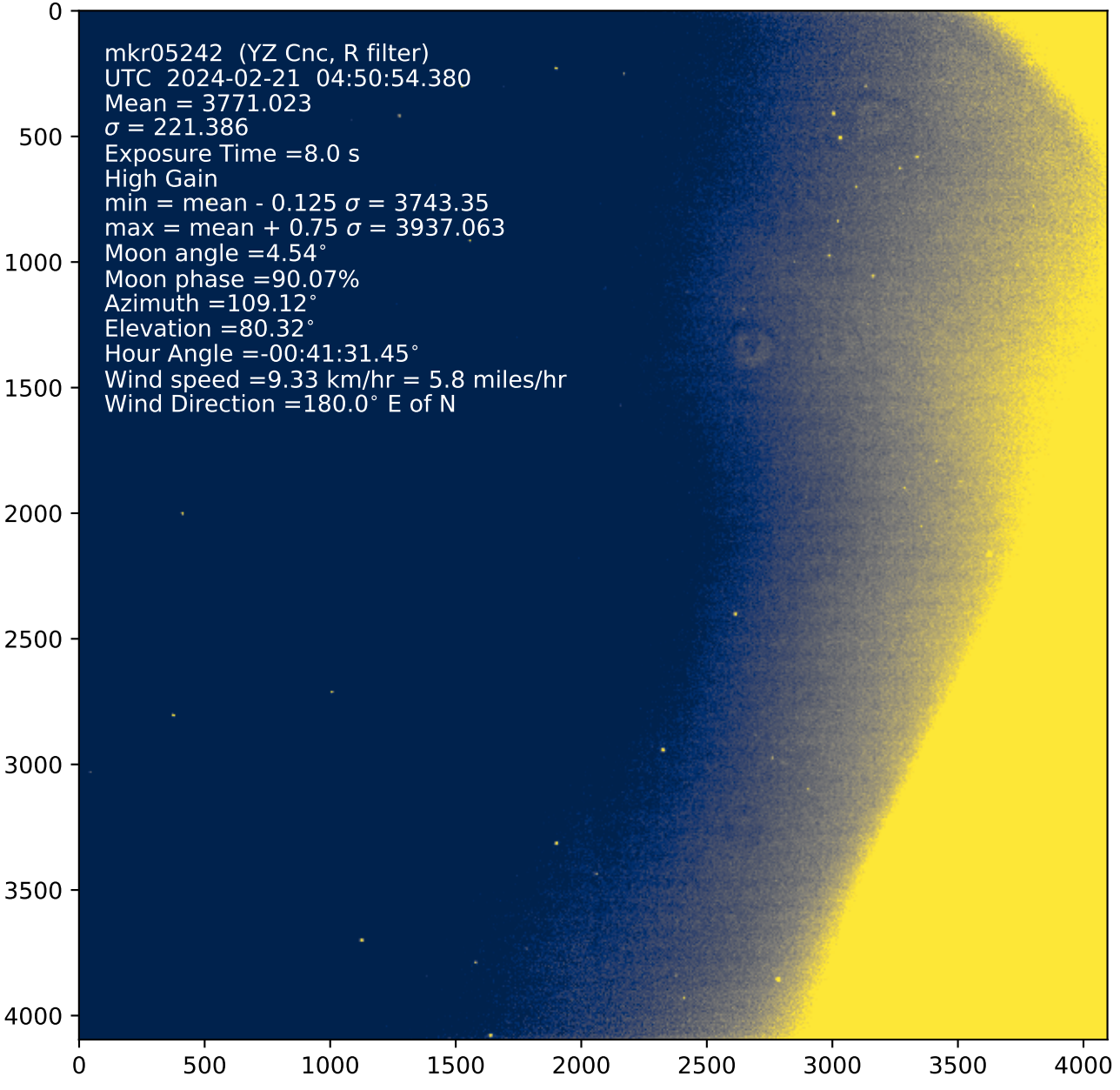
mkr05242 (YZ Cnc, R filter)
UTC 2024-02-21 04:50:54.380
Mean = 3771.023
σ = 221.386
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 3743.35
max = mean + 0.75 σ = 3937.063
Moon angle =4.54°
Moon phase =90.07%
Azimuth =109.12°
Elevation =80.32°
Hour Angle =-00:41:31.45°
Wind speed =9.33 km/hr = 5.8 miles/hr
Wind Direction =180.0° E of N
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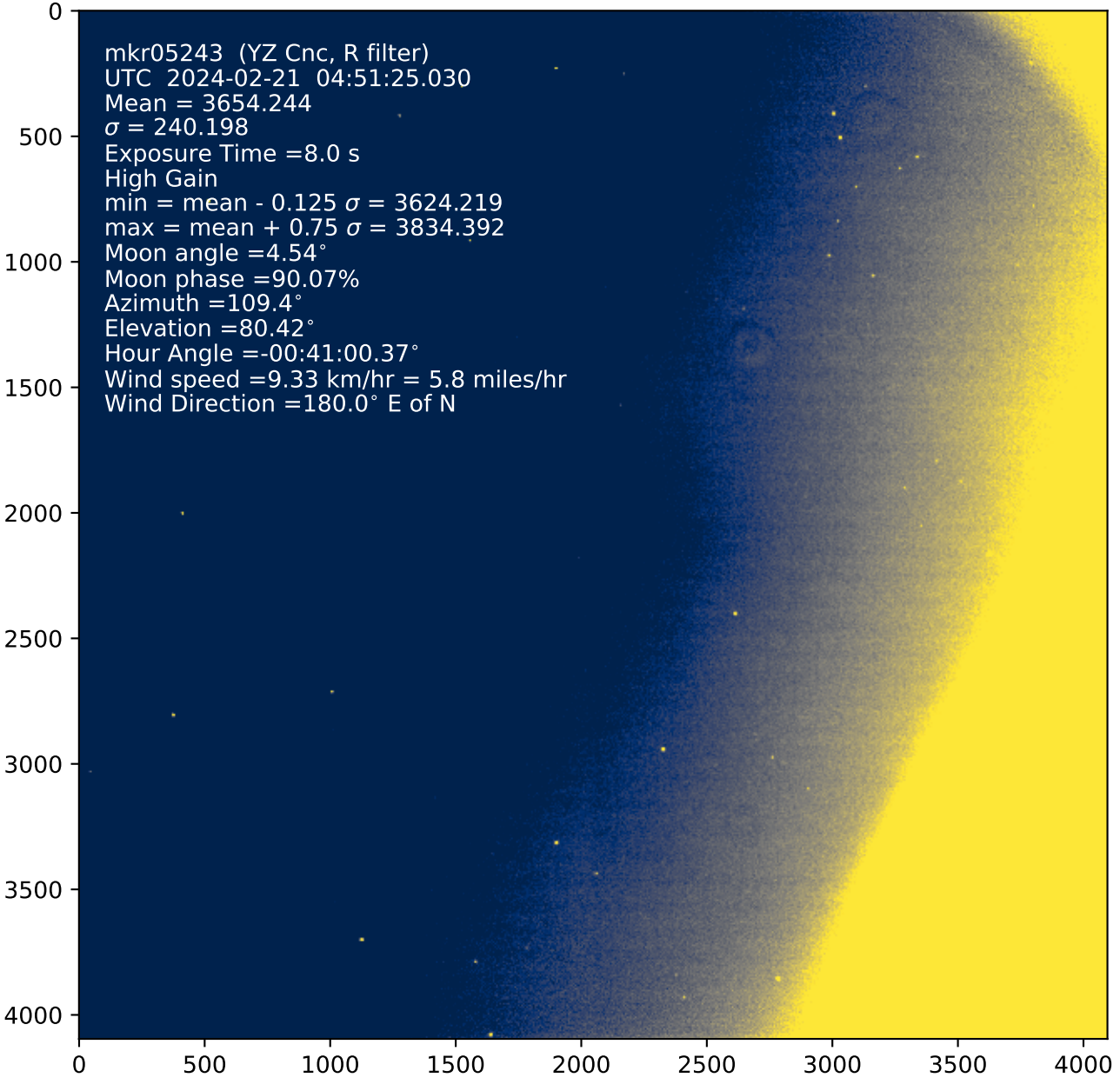
mkr05243 (YZ Cnc, R filter)
UTC 2024-02-21 04:51:25.030
Mean = 3654.244
σ = 240.198
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 3624.219
max = mean + 0.75 σ = 3834.392
Moon angle =4.54°
Moon phase =90.07%
Azimuth =109.4°
Elevation =80.42°
Hour Angle =-00:41:00.37°
Wind speed =9.33 km/hr = 5.8 miles/hr
Wind Direction =180.0° E of N
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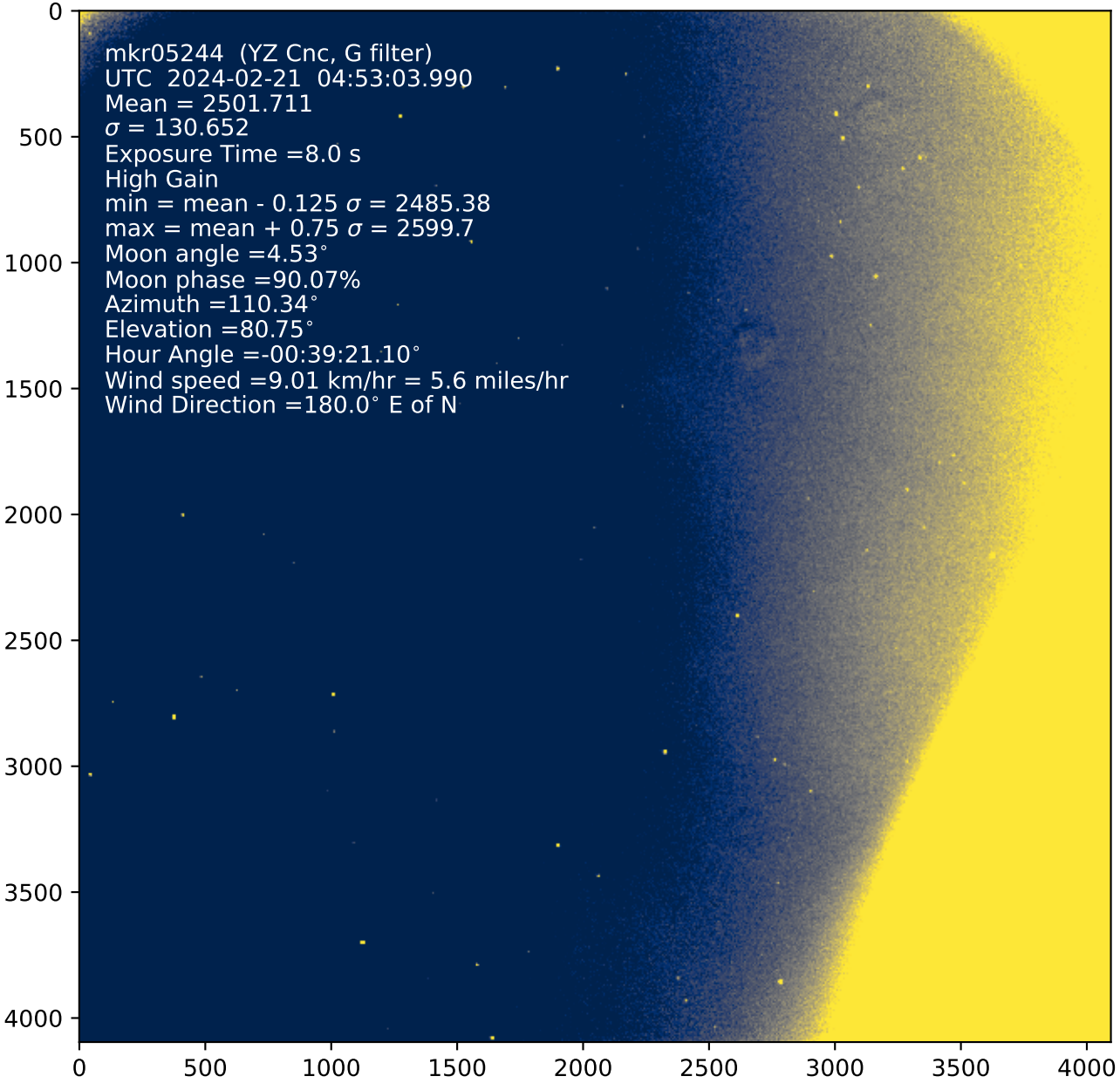
mkr05244 (YZ Cnc, G filter)
UTC 2024-02-21 04:53:03.990
Mean = 2501.711
σ = 130.652
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2485.38
max = mean + 0.75 σ = 2599.7
Moon angle =4.53°
Moon phase =90.07%
Azimuth =110.34°
Elevation =80.75°
Hour Angle =-00:39:21.10°
Wind speed =9.01 km/hr = 5.6 miles/hr
Wind Direction =180.0° E of N
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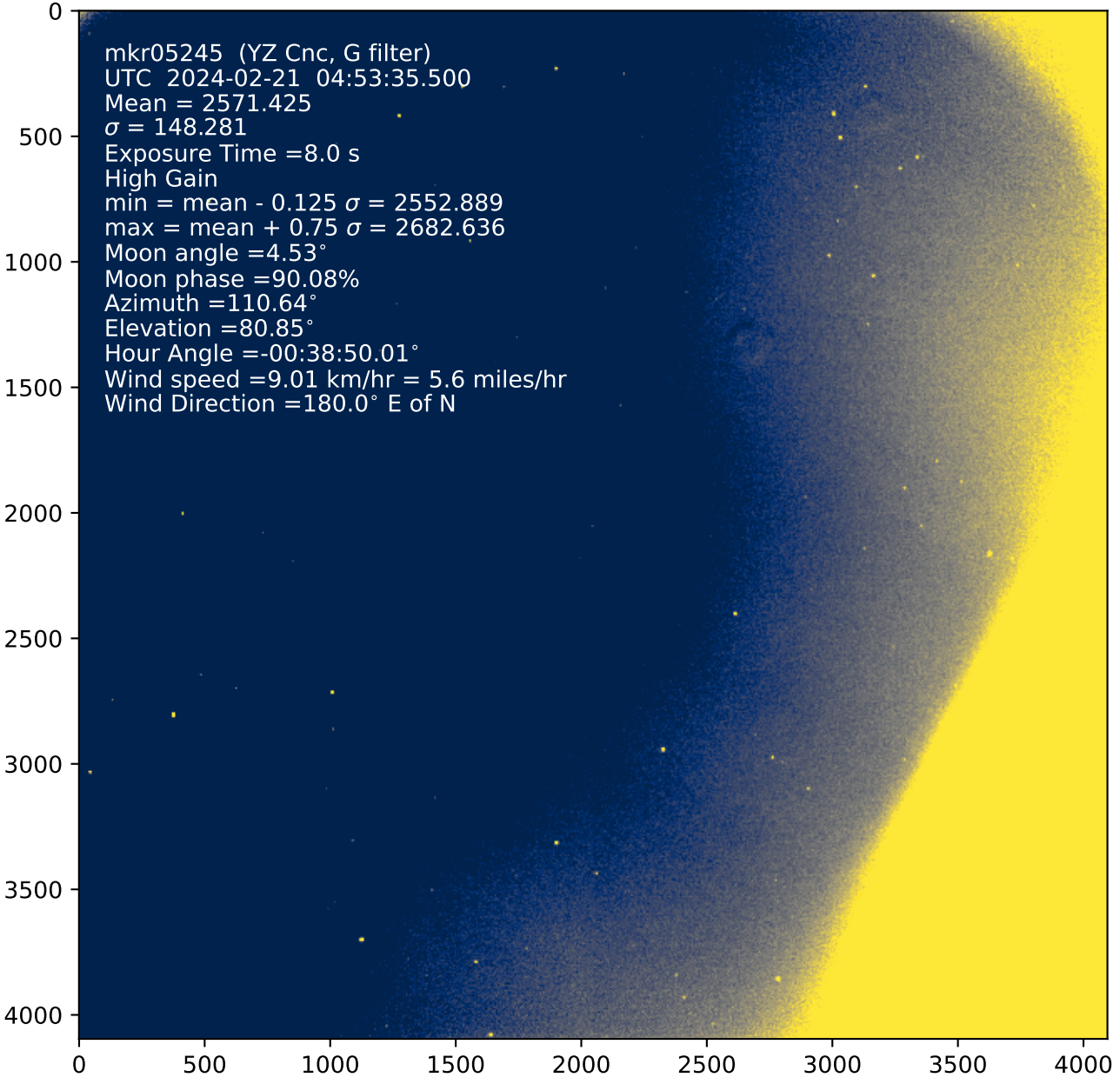
mkr05245 (YZ Cnc, G filter)
UTC 2024-02-21 04:53:35.500
Mean = 2571.425
σ = 148.281
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2552.889
max = mean + 0.75 σ = 2682.636
Moon angle =4.53°
Moon phase =90.08%
Azimuth =110.64°
Elevation =80.85°
Hour Angle =-00:38:50.01°
Wind speed =9.01 km/hr = 5.6 miles/hr
Wind Direction =180.0° E of N
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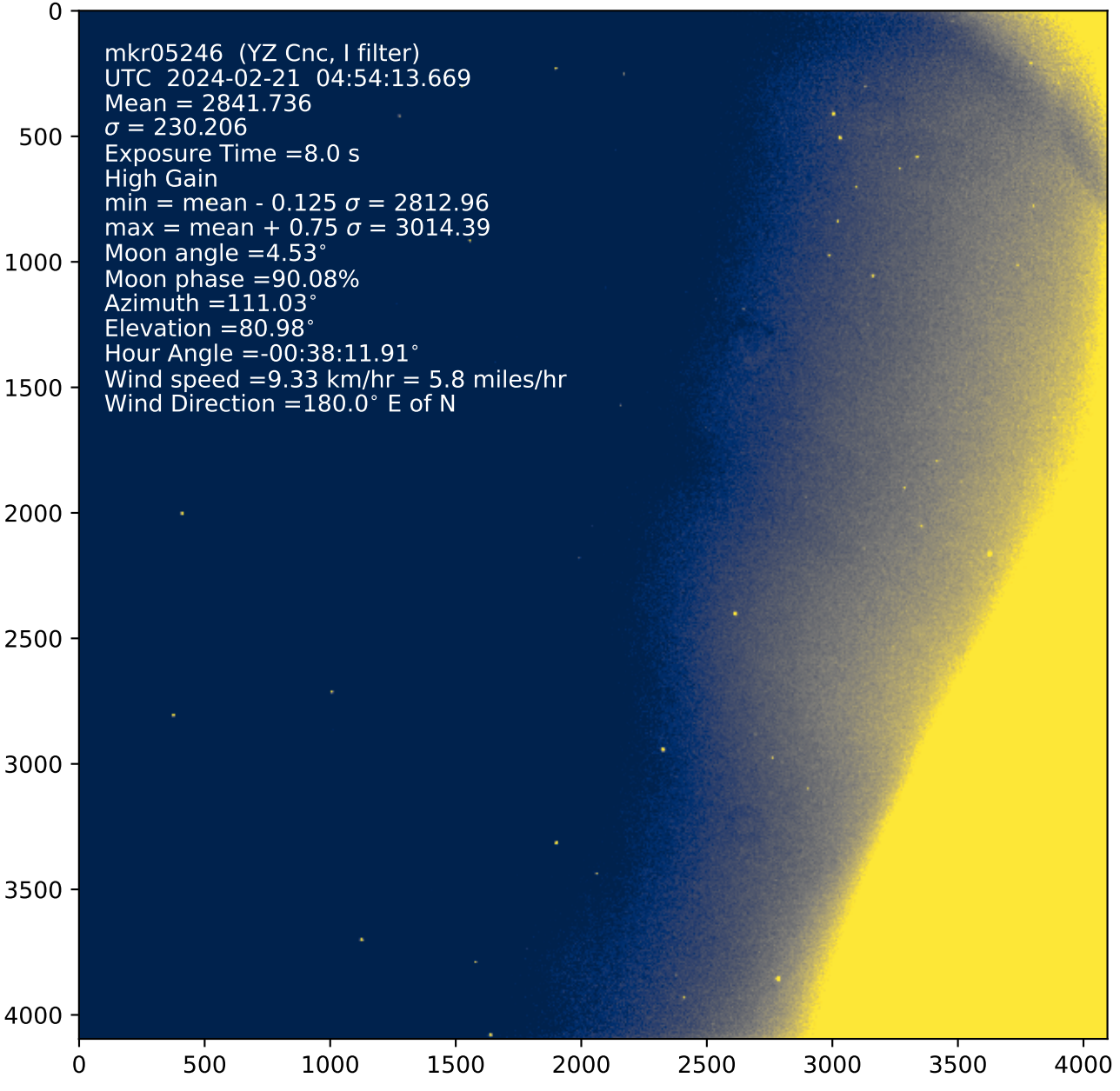
mkr05246 (YZ Cnc, I filter)
UTC 2024-02-21 04:54:13.669
Mean = 2841.736
σ = 230.206
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2812.96
max = mean + 0.75 σ = 3014.39
Moon angle =4.53°
Moon phase =90.08%
Azimuth =111.03°
Elevation =80.98°
Hour Angle =-00:38:11.91°
Wind speed =9.33 km/hr = 5.8 miles/hr
Wind Direction =180.0° E of N
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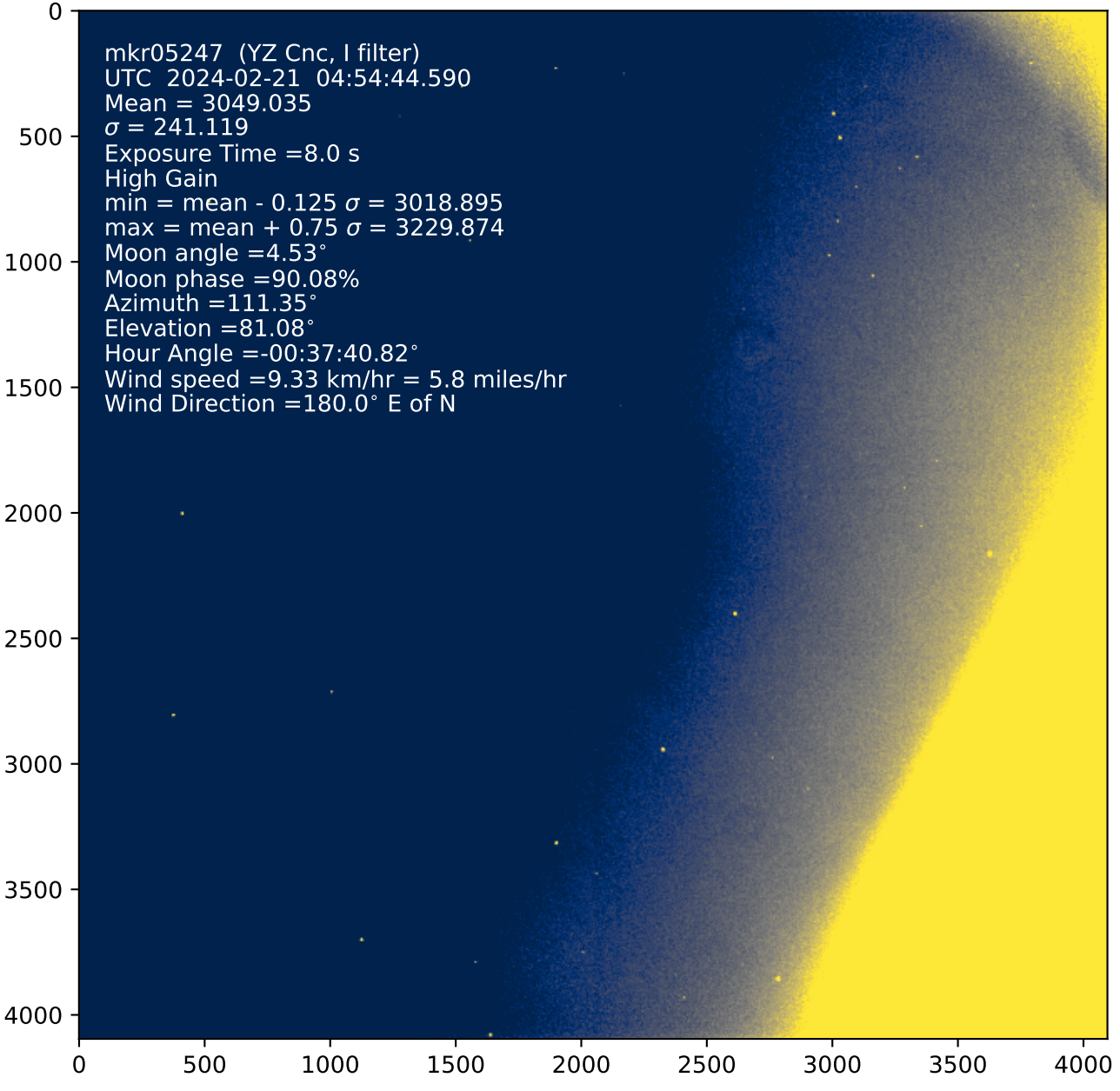
mkr05247 (YZ Cnc, I filter)
UTC 2024-02-21 04:54:44.590
Mean = 3049.035
σ = 241.119
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 3018.895
max = mean + 0.75 σ = 3229.874
Moon angle =4.53°
Moon phase =90.08%
Azimuth =111.35°
Elevation =81.08°
Hour Angle =-00:37:40.82°
Wind speed =9.33 km/hr = 5.8 miles/hr
Wind Direction =180.0° E of N
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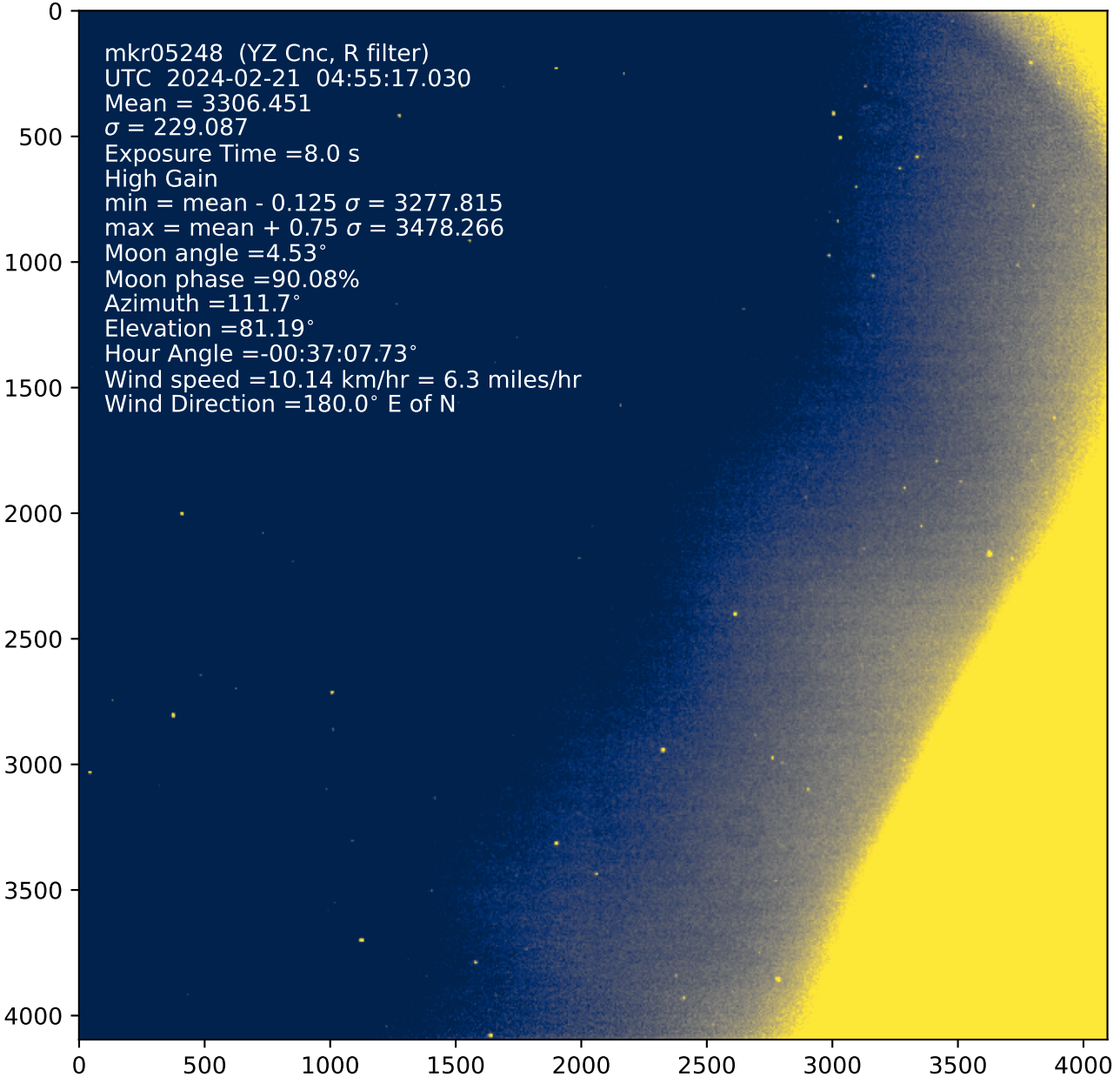
3500
4000


mkr05248 (YZ Cnc, R filter)
UTC 2024-02-21 04:55:17.030
Mean = 3306.451
σ = 229.087
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 3277.815
max = mean + 0.75 σ = 3478.266
Moon angle =4.53°
Moon phase =90.08%
Azimuth =111.7°
Elevation =81.19°
Hour Angle =-00:37:07.73°
Wind speed =10.14 km/hr = 6.3 miles/hr
Wind Direction =180.0° E of N
0
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2500
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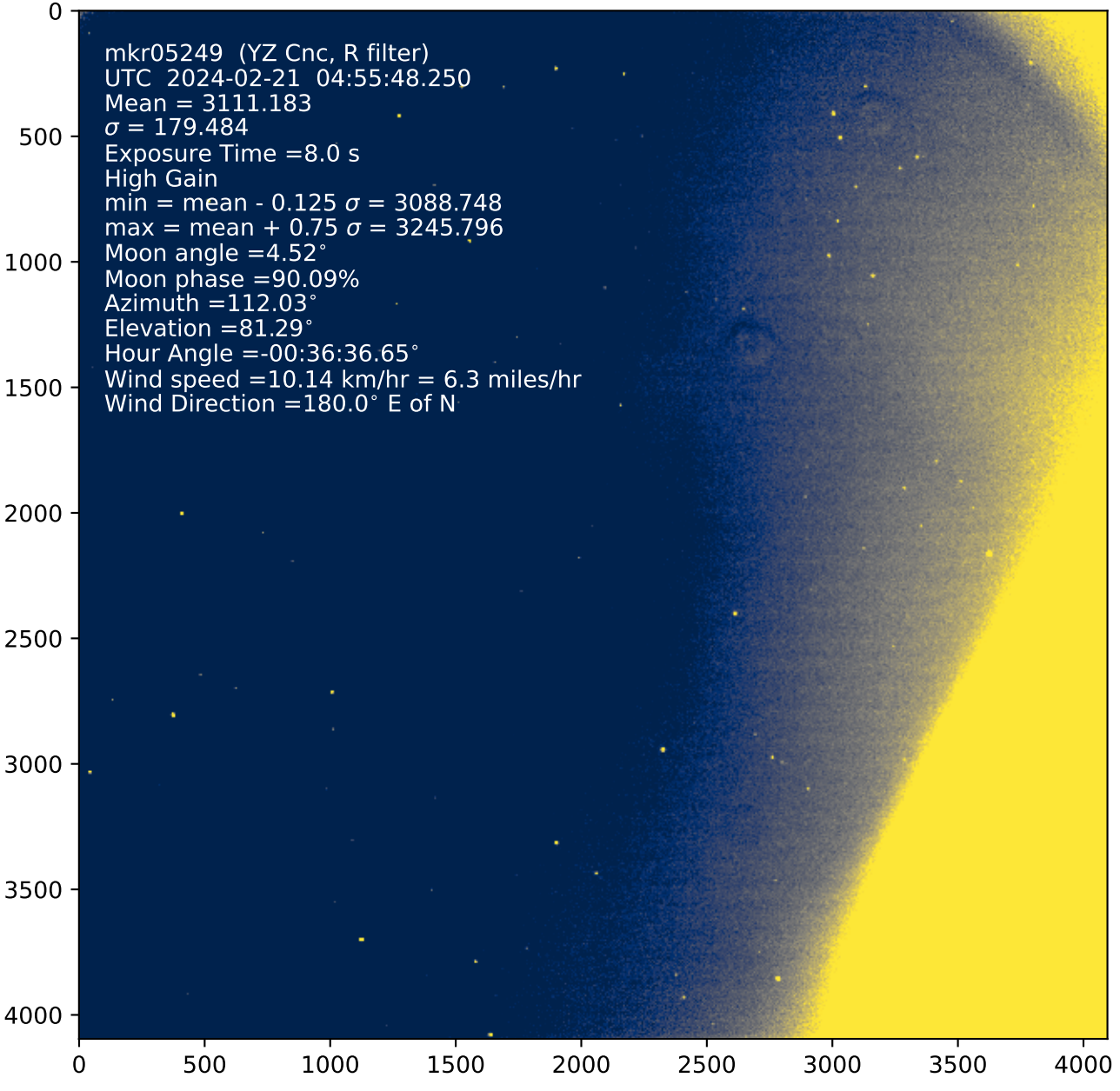
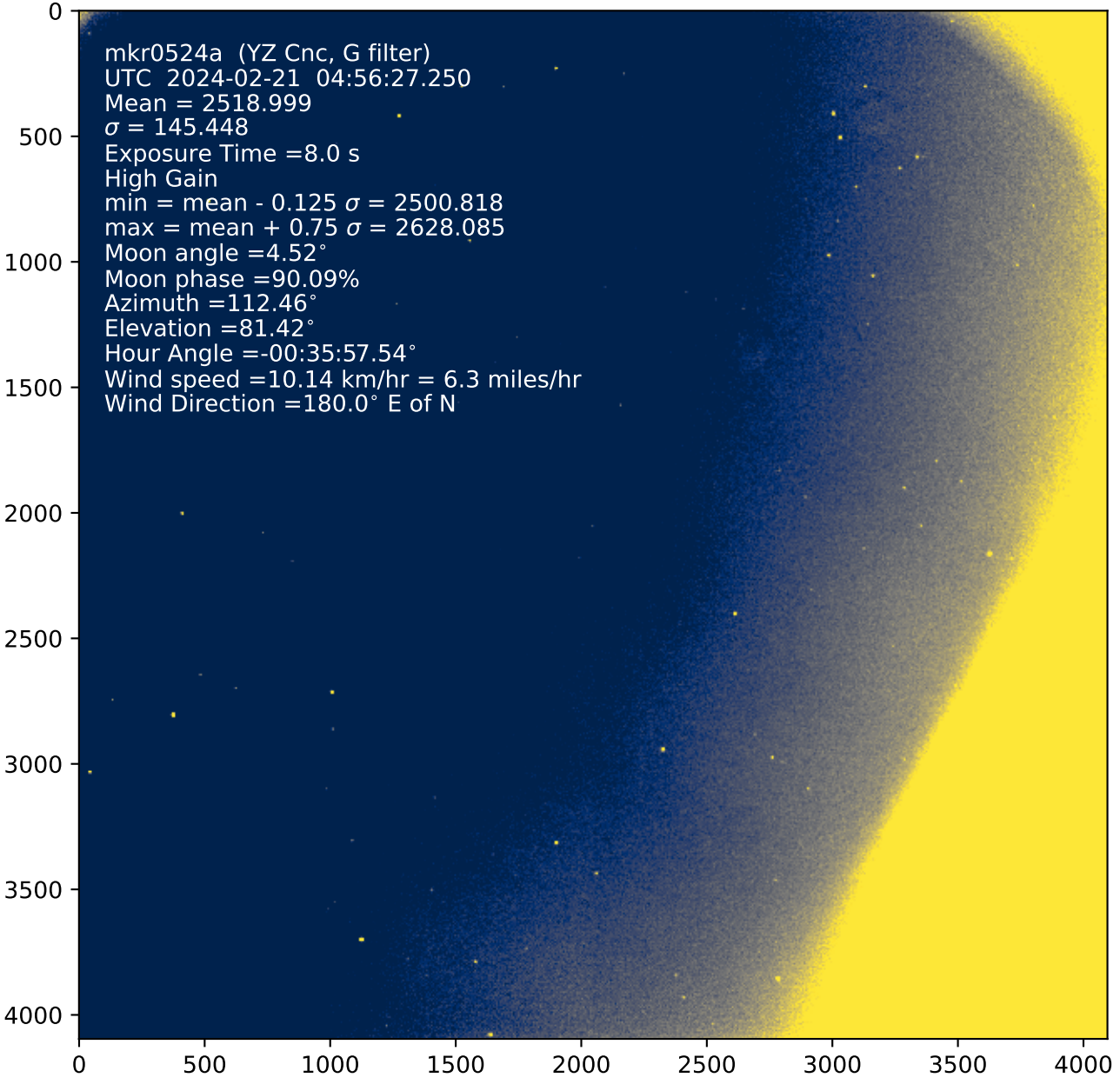
3500
4000


mkr05249 (YZ Cnc, R filter)
UTC 2024-02-21 04:55:48.250
Mean = 3111.183
σ = 179.484
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 3088.748
max = mean + 0.75 σ = 3245.796
Moon angle =4.52°
Moon phase =90.09%
Azimuth =112.03°
Elevation =81.29°
Hour Angle =-00:36:36.65°
Wind speed =10.14 km/hr = 6.3 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr0524a (YZ Cnc, G filter)
UTC 2024-02-21 04:56:27.250
Mean = 2518.999
σ = 145.448
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2500.818
max = mean + 0.75 σ = 2628.085
Moon angle =4.52°
Moon phase =90.09%
Azimuth =112.46°
Elevation =81.42°
Hour Angle =-00:35:57.54°
Wind speed =10.14 km/hr = 6.3 miles/hr
Wind Direction =180.0° E of N
0
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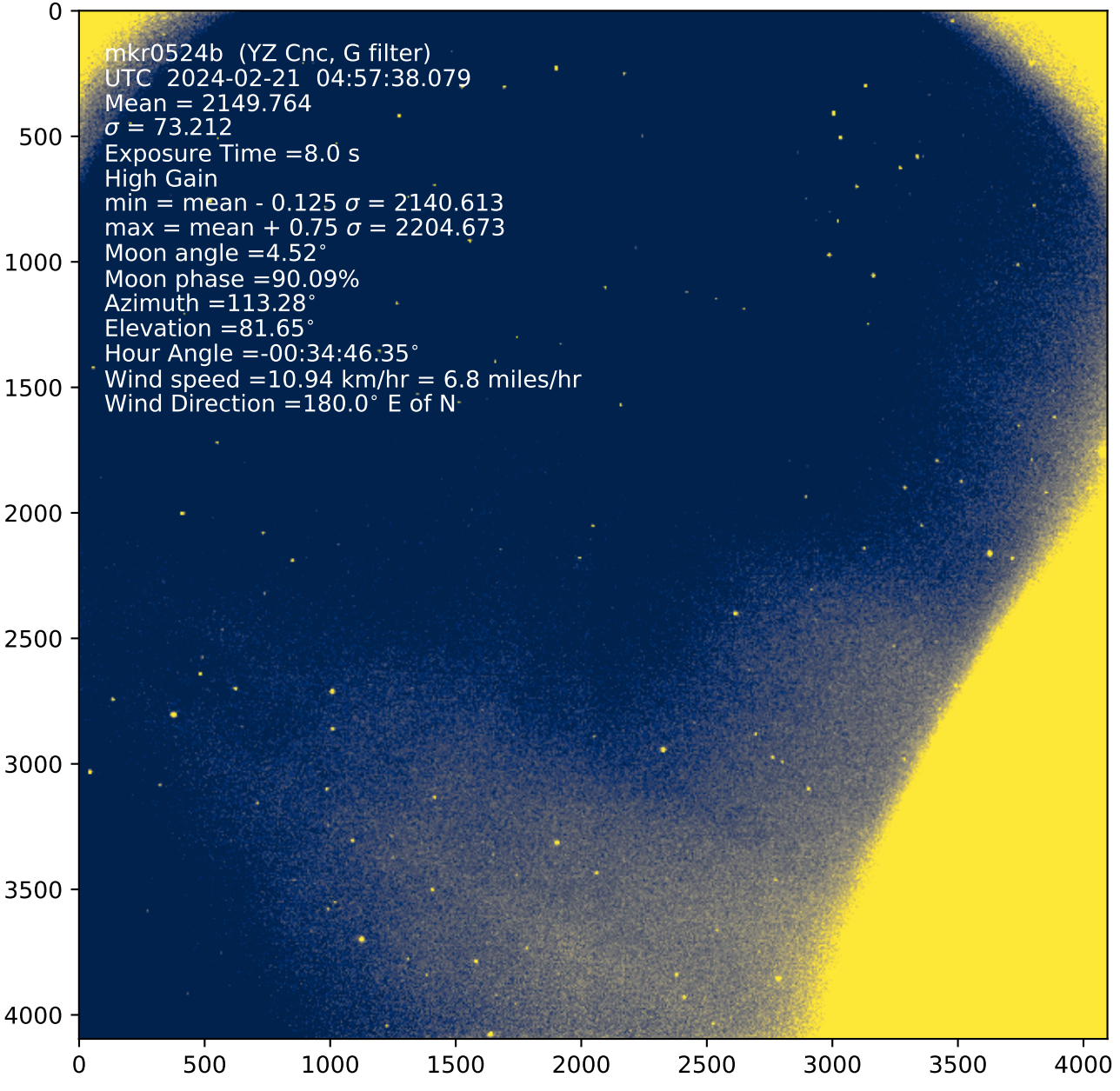
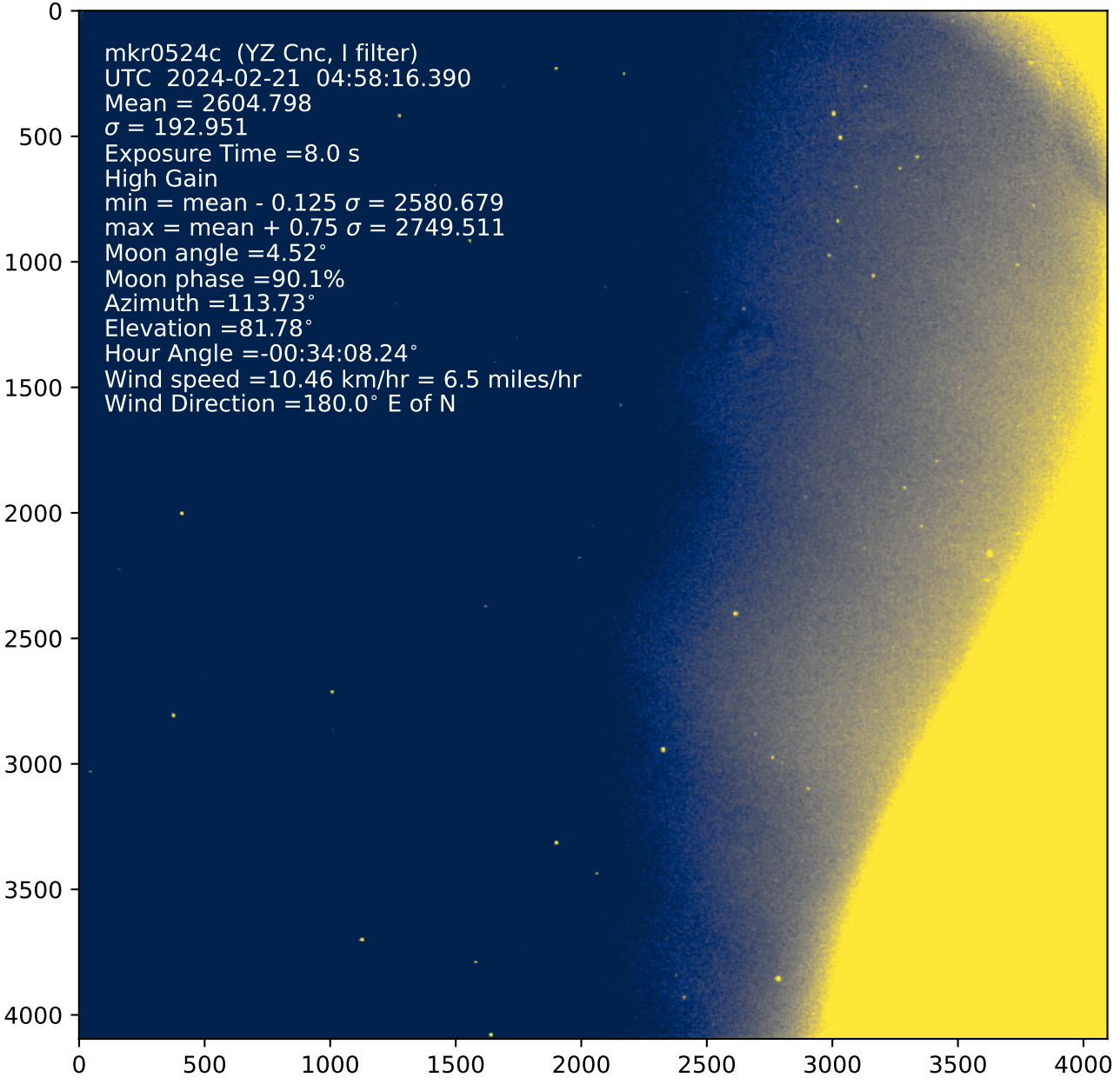
2500
3000
3500
4000


mkr0524b (YZ Cnc, G filter)
UTC 2024-02-21 04:57:38.079
Mean = 2149.764
σ = 73.212
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2140.613
max = mean + 0.75 σ = 2204.673
Moon angle =4.52˚
Moon phase =90.09%
Azimuth =113.28˚
Elevation =81.65˚
Hour Angle =-00:34:46.35˚
Wind speed =10.94 km/hr = 6.8 miles/hr
Wind Direction =180.0˚ E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr0524c (YZ Cnc, I filter)
UTC 2024-02-21 04:58:16.390
Mean = 2604.798
σ = 192.951
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2580.679
max = mean + 0.75 σ = 2749.511
Moon angle =4.52°
Moon phase =90.1%
Azimuth =113.73°
Elevation =81.78°
Hour Angle =-00:34:08.24°
Wind speed =10.46 km/hr = 6.5 miles/hr
Wind Direction =180.0° E of N
0
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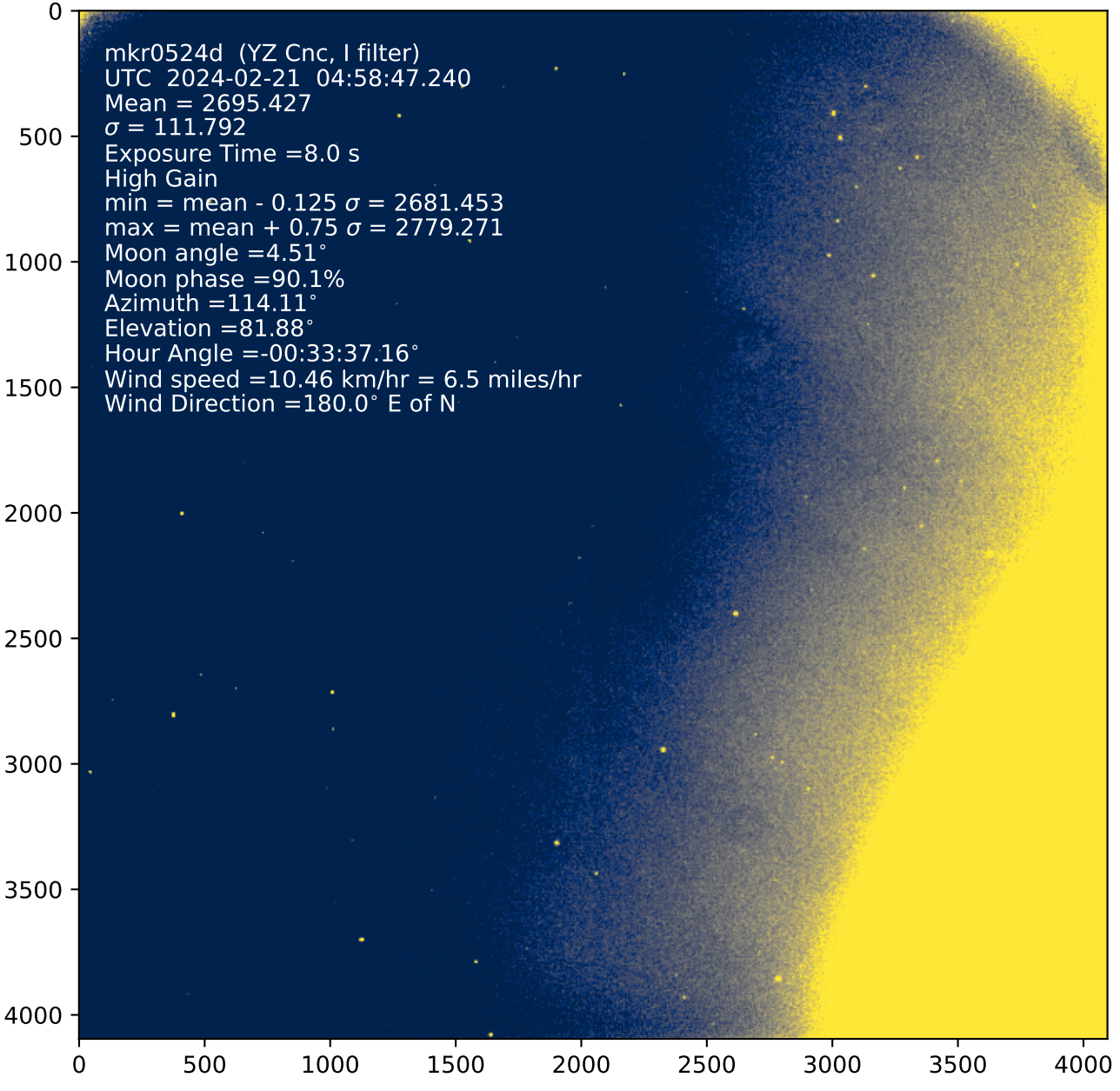
mkr0524d (YZ Cnc, I filter)
UTC 2024-02-21 04:58:47.240
Mean = 2695.427
σ = 111.792
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2681.453
max = mean + 0.75 σ = 2779.271
Moon angle =4.51°
Moon phase =90.1%
Azimuth =114.11°
Elevation =81.88°
Hour Angle =-00:33:37.16°
Wind speed =10.46 km/hr = 6.5 miles/hr
Wind Direction =180.0° E of N
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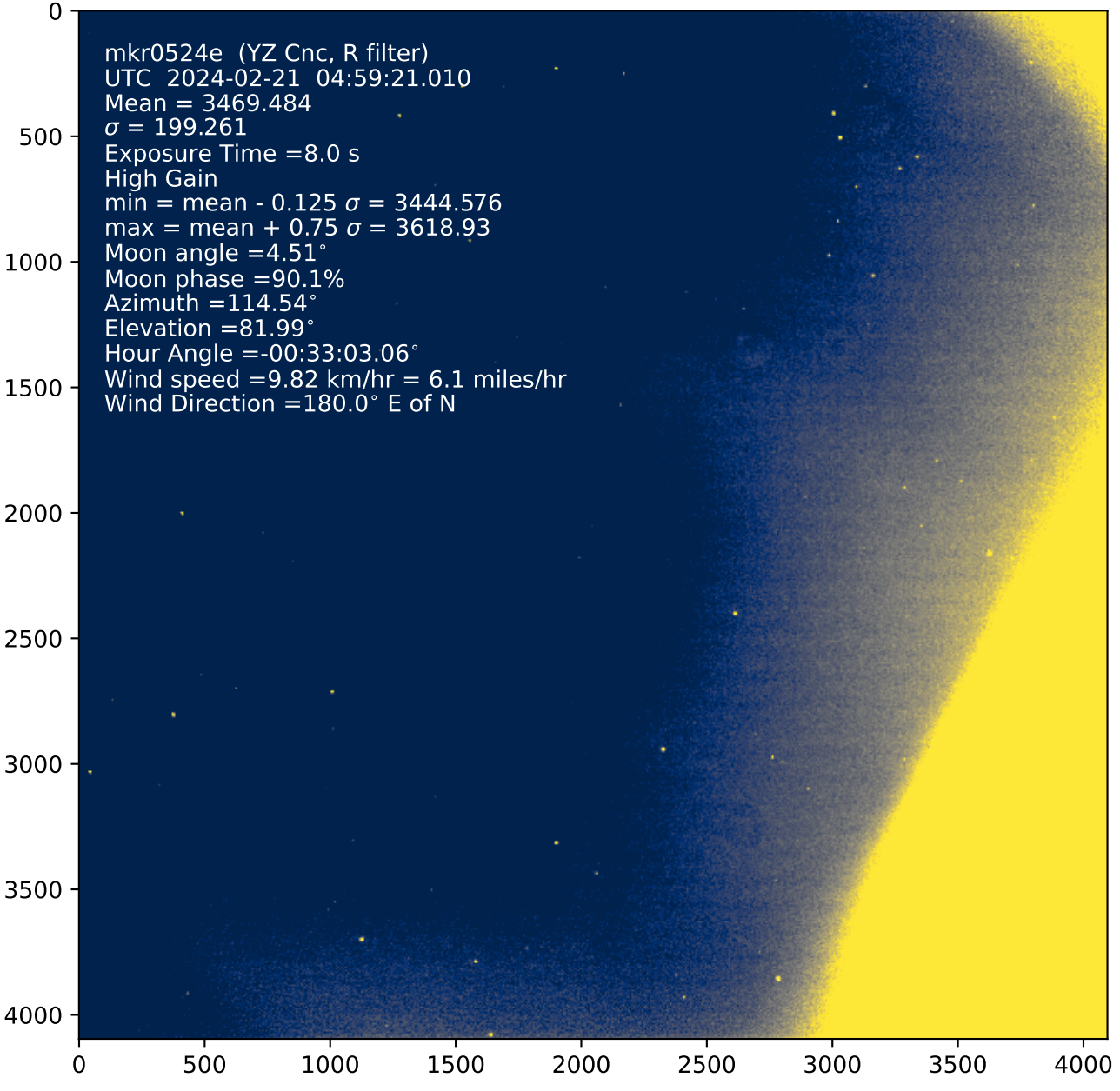
mkr0524e (YZ Cnc, R filter)
UTC 2024-02-21 04:59:21.010
Mean = 3469.484
σ = 199.261
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 3444.576
max = mean + 0.75 σ = 3618.93
Moon angle =4.51°
Moon phase =90.1%
Azimuth =114.54°
Elevation =81.99°
Hour Angle =-00:33:03.06°
Wind speed =9.82 km/hr = 6.1 miles/hr
Wind Direction =180.0° E of N
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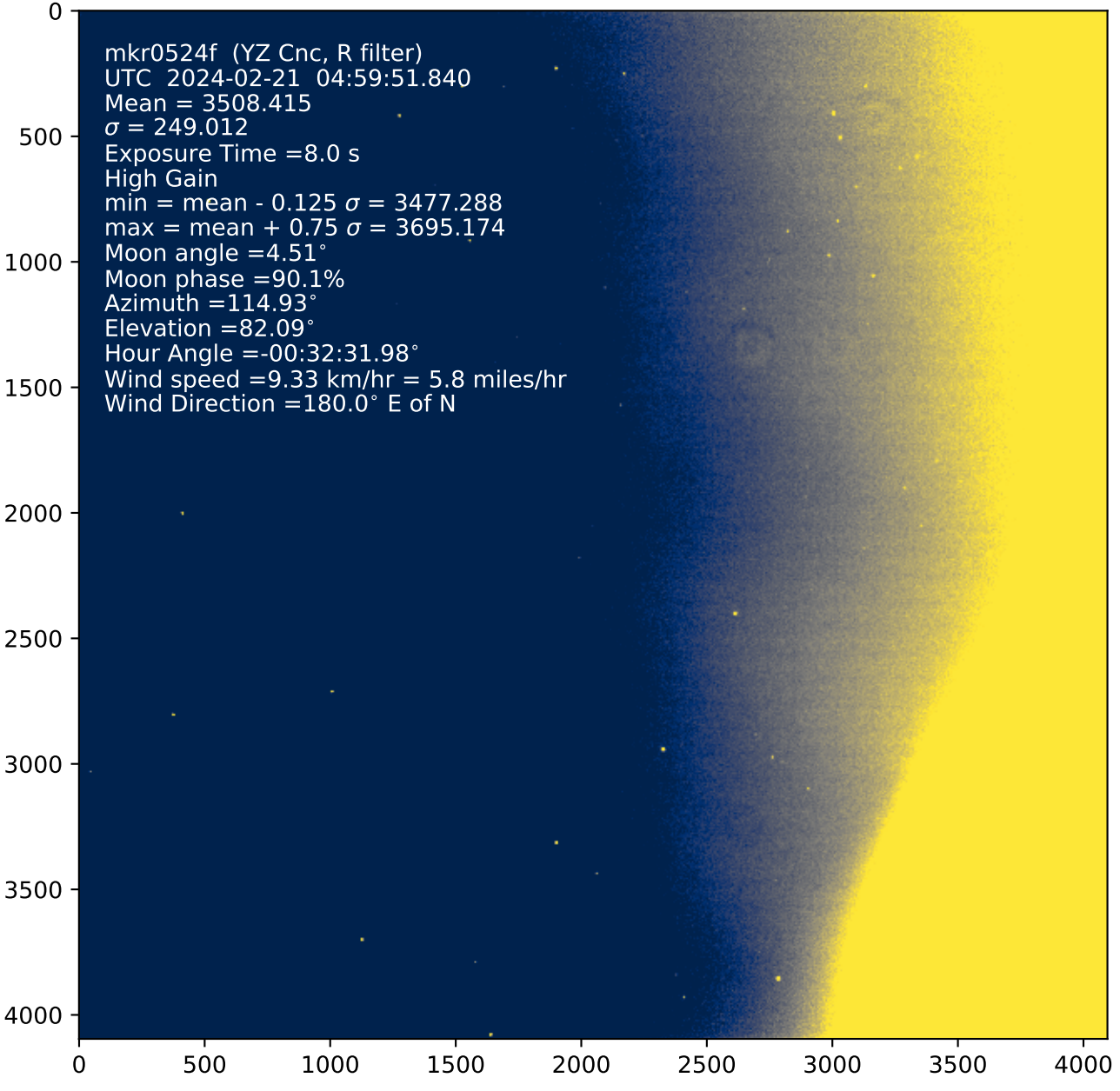
mkr0524f (YZ Cnc, R filter)
UTC 2024-02-21 04:59:51.840
Mean = 3508.415
σ = 249.012
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 3477.288
max = mean + 0.75 σ = 3695.174
Moon angle =4.51°
Moon phase =90.1%
Azimuth =114.93°
Elevation =82.09°
Hour Angle =-00:32:31.98°
Wind speed =9.33 km/hr = 5.8 miles/hr
Wind Direction =180.0° E of N
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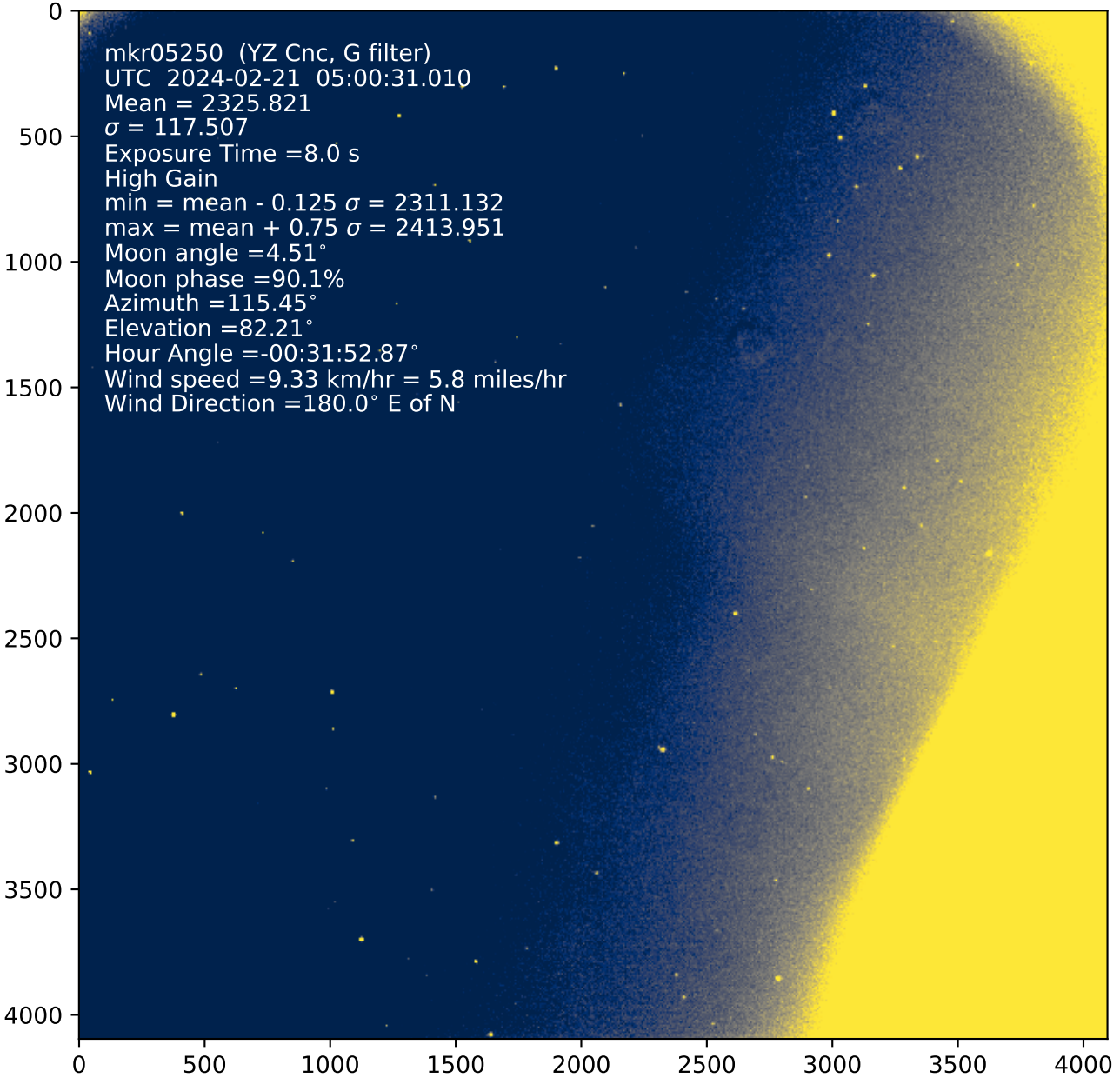
mkr05250 (YZ Cnc, G filter)
UTC 2024-02-21 05:00:31.010
Mean = 2325.821
σ = 117.507
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2311.132
max = mean + 0.75 σ = 2413.951
Moon angle =4.51°
Moon phase =90.1%
Azimuth =115.45°
Elevation =82.21°
Hour Angle =-00:31:52.87°
Wind speed =9.33 km/hr = 5.8 miles/hr
Wind Direction =180.0° E of N
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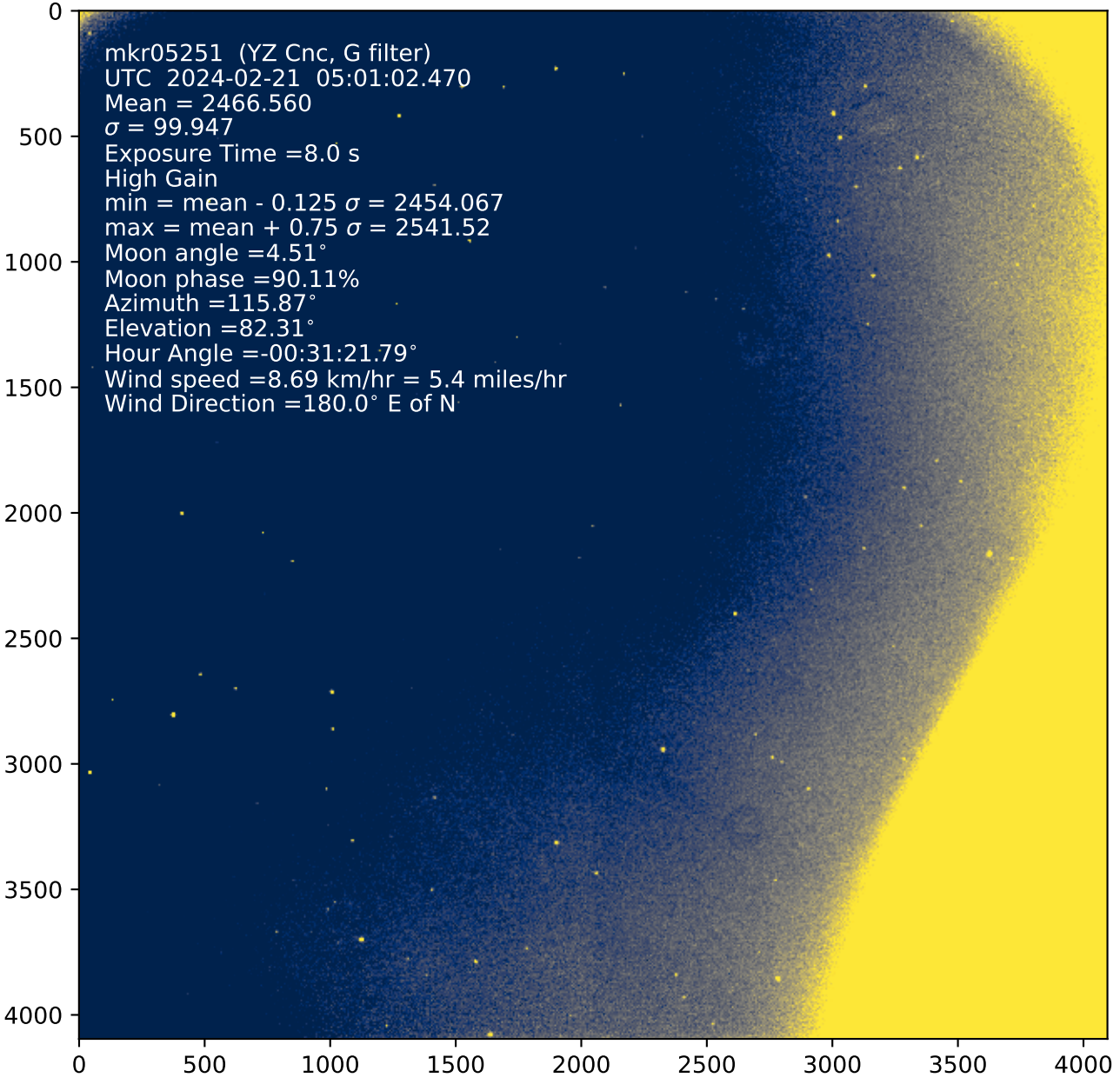
mkr05251 (YZ Cnc, G filter)
UTC 2024-02-21 05:01:02.470
Mean = 2466.560
σ = 99.947
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2454.067
max = mean + 0.75 σ = 2541.52
Moon angle =4.51°
Moon phase =90.11%
Azimuth =115.87°
Elevation =82.31°
Hour Angle =-00:31:21.79°
Wind speed =8.69 km/hr = 5.4 miles/hr
Wind Direction =180.0° E of N
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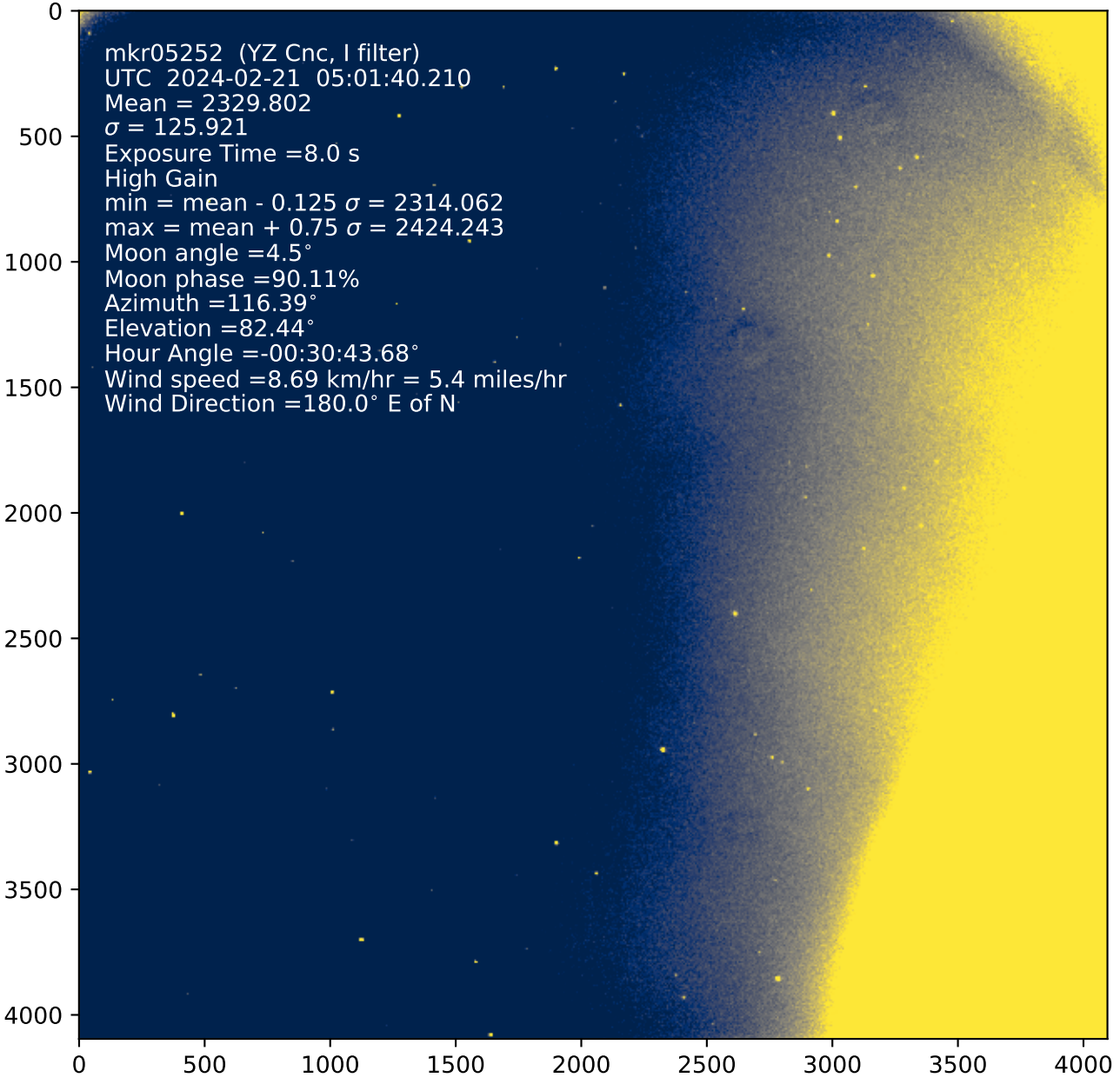
mkr05252 (YZ Cnc, I filter)
UTC 2024-02-21 05:01:40.210
Mean = 2329.802
σ = 125.921
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2314.062
max = mean + 0.75 σ = 2424.243
Moon angle =4.5°
Moon phase =90.11%
Azimuth =116.39°
Elevation =82.44°
Hour Angle =-00:30:43.68°
Wind speed =8.69 km/hr = 5.4 miles/hr
Wind Direction =180.0° E of N
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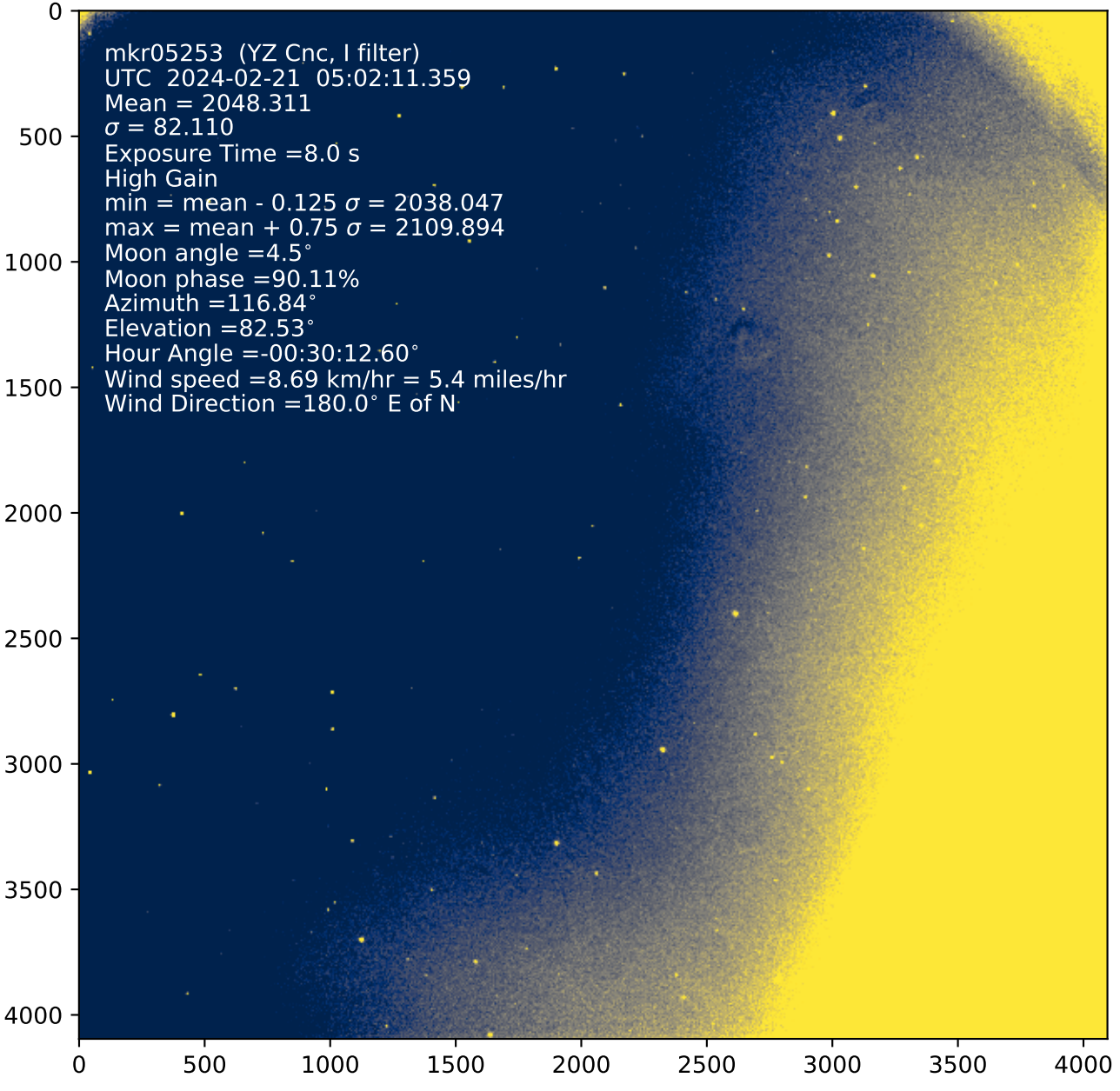
mkr05253 (YZ Cnc, I filter)
UTC 2024-02-21 05:02:11.359
Mean = 2048.311
σ = 82.110
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2038.047
max = mean + 0.75 σ = 2109.894
Moon angle =4.5°
Moon phase =90.11%
Azimuth =116.84°
Elevation =82.53°
Hour Angle =-00:30:12.60°
Wind speed =8.69 km/hr = 5.4 miles/hr
Wind Direction =180.0° E of N
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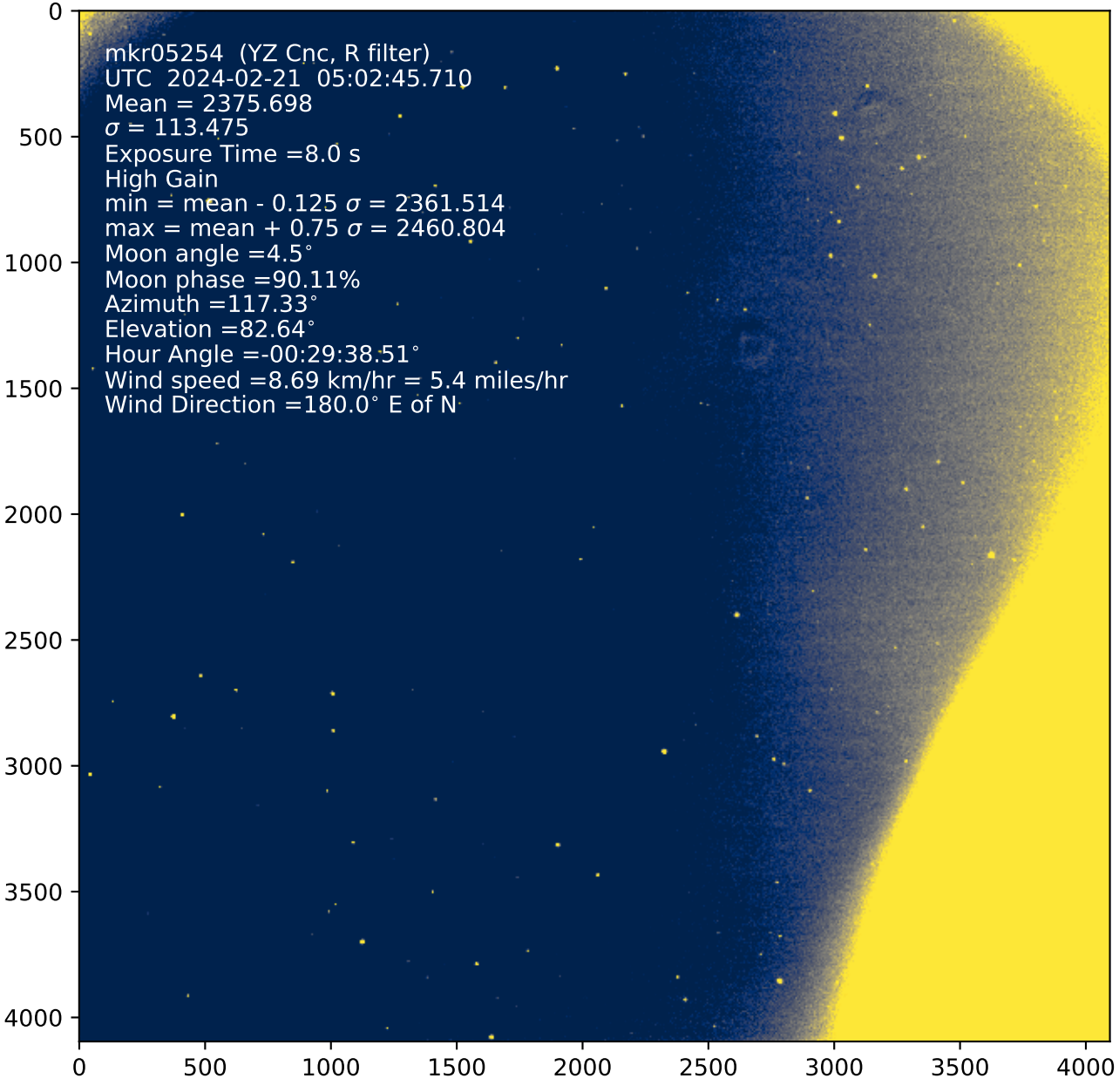
mkr05254 (YZ Cnc, R filter)
UTC 2024-02-21 05:02:45.710
Mean = 2375.698
σ = 113.475
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2361.514
max = mean + 0.75 σ = 2460.804
Moon angle =4.5°
Moon phase =90.11%
Azimuth =117.33°
Elevation =82.64°
Hour Angle =-00:29:38.51°
Wind speed =8.69 km/hr = 5.4 miles/hr
Wind Direction =180.0° E of N
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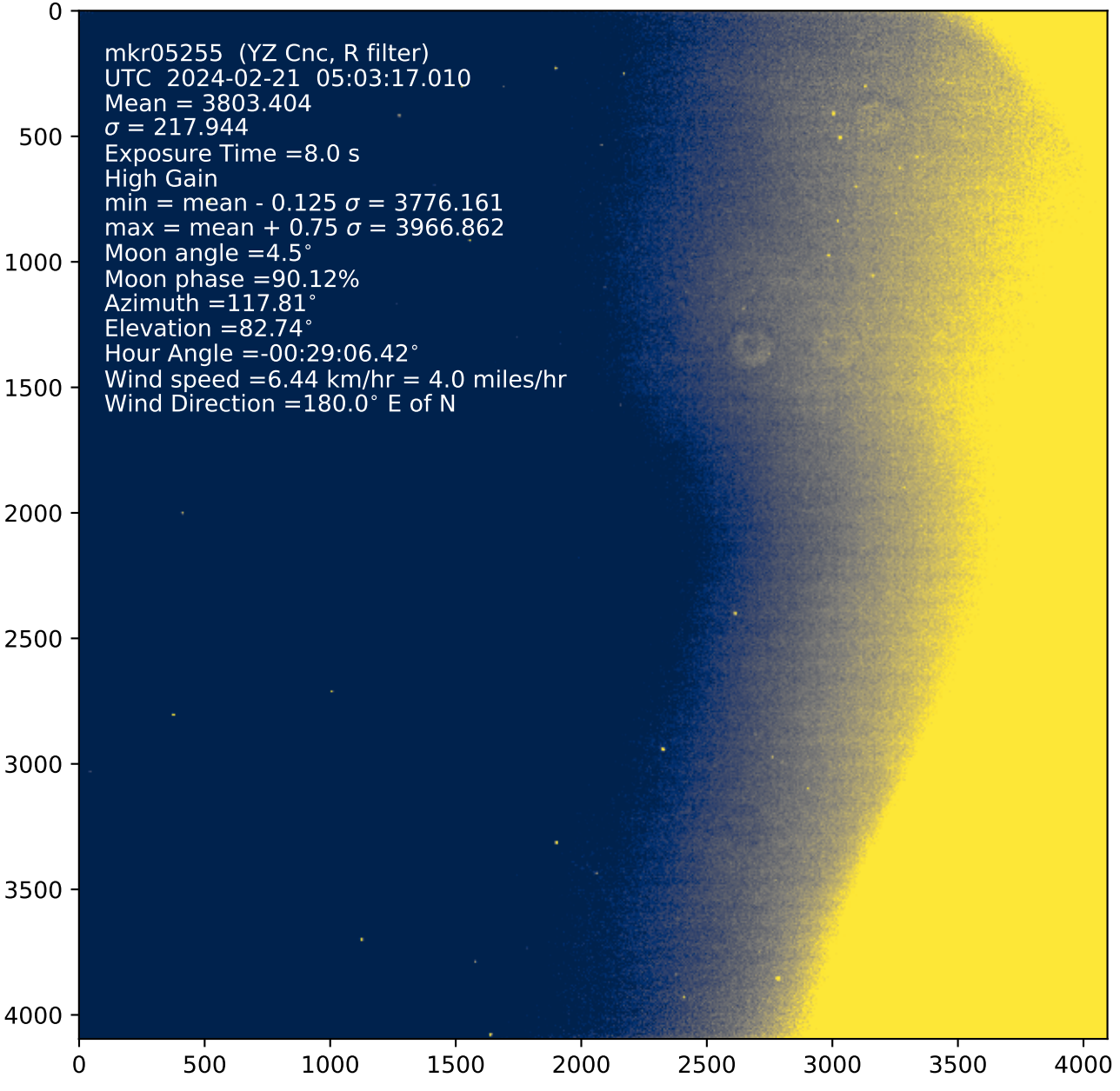
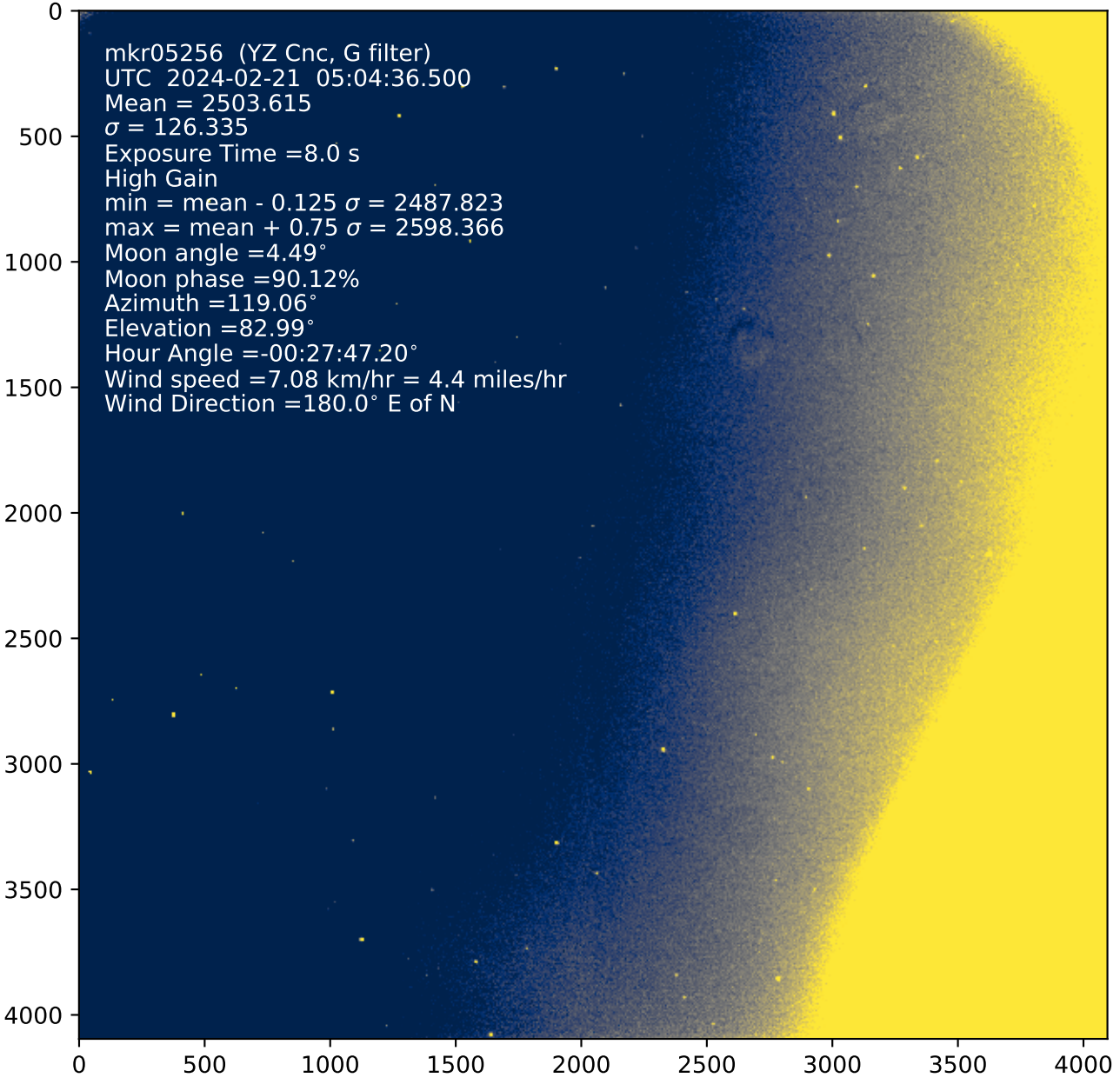
3500
4000


mkr05255 (YZ Cnc, R filter)
UTC 2024-02-21 05:03:17.010
Mean = 3803.404
σ = 217.944
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 3776.161
max = mean + 0.75 σ = 3966.862
Moon angle =4.5°
Moon phase =90.12%
Azimuth =117.81°
Elevation =82.74°
Hour Angle =-00:29:06.42°
Wind speed =6.44 km/hr = 4.0 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr05256 (YZ Cnc, G filter)
UTC 2024-02-21 05:04:36.500
Mean = 2503.615
σ = 126.335
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2487.823
max = mean + 0.75 σ = 2598.366
Moon angle =4.49°
Moon phase =90.12%
Azimuth =119.06°
Elevation =82.99°
Hour Angle =-00:27:47.20°
Wind speed =7.08 km/hr = 4.4 miles/hr
Wind Direction =180.0° E of N
0
500
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2500
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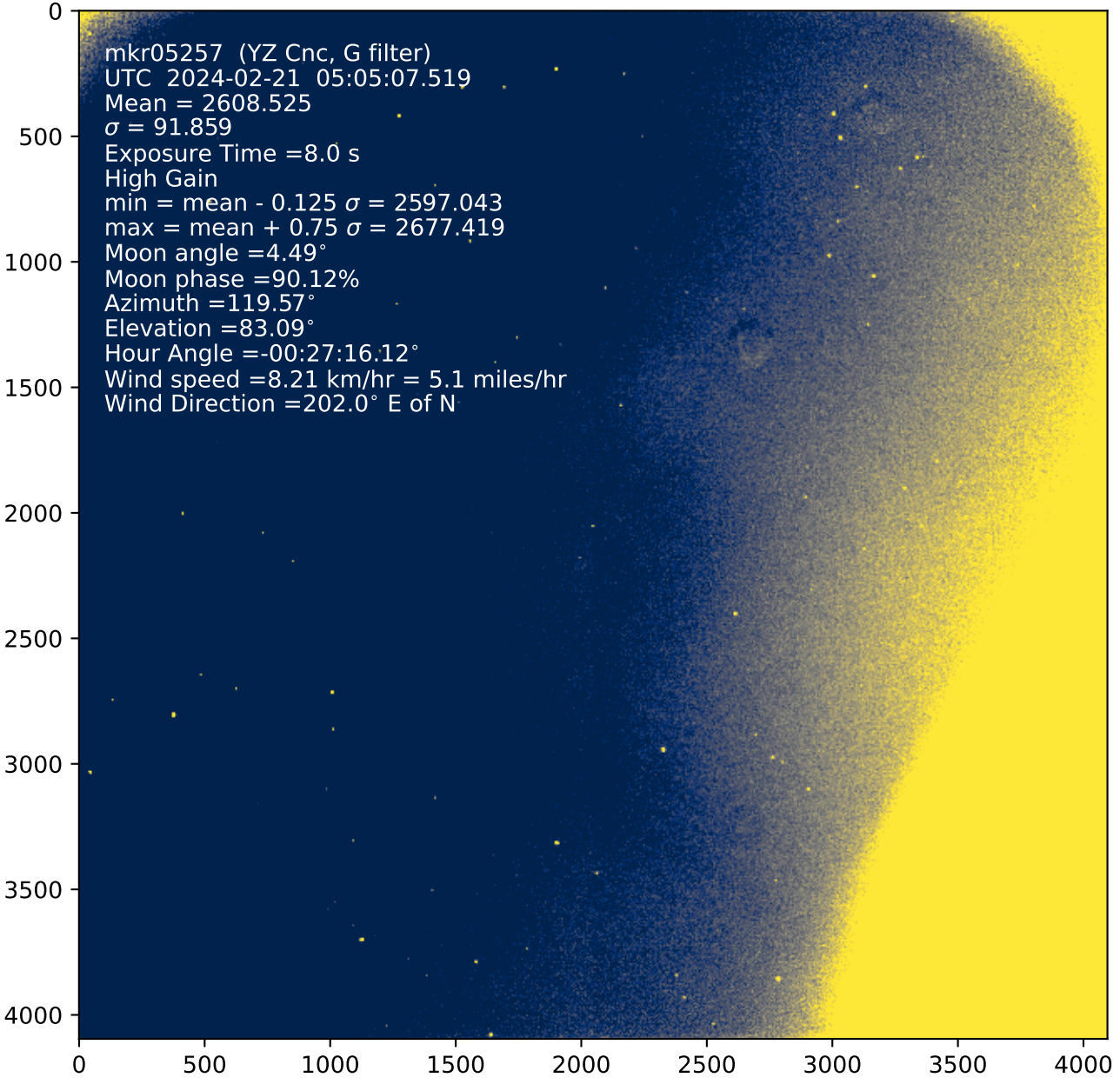
4000


mkr05257 (YZ Cnc, G filter)
UTC 2024-02-21 05:05:07.519
Mean = 2608.525
σ = 91.859
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2597.043
max = mean + 0.75 σ = 2677.419
Moon angle =4.49°
Moon phase =90.12%
Azimuth =119.57°
Elevation =83.09°
Hour Angle =-00:27:16.12°
Wind speed =8.21 km/hr = 5.1 miles/hr
Wind Direction =202.0° E of N
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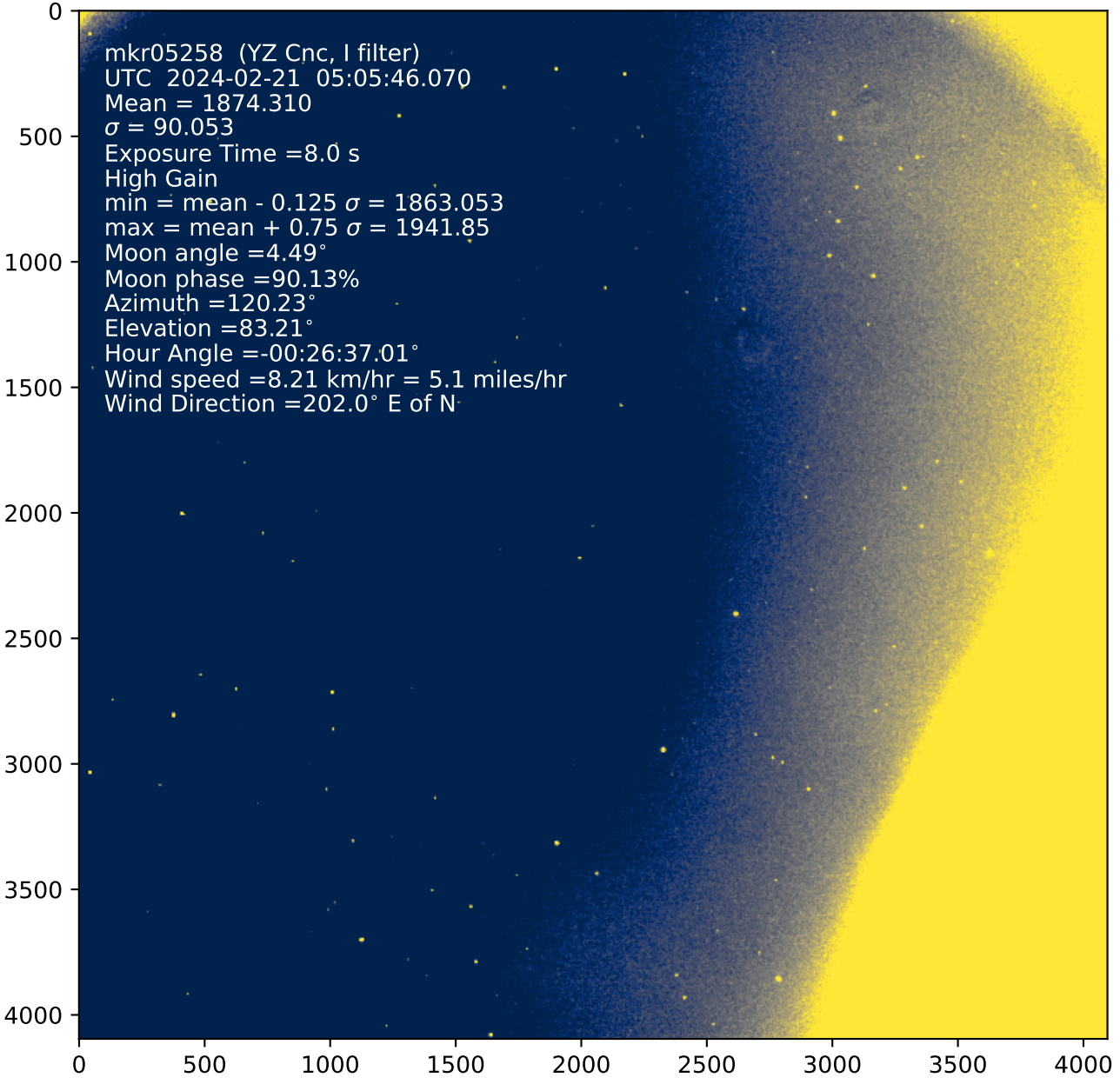
2500
3000
3500
4000


mkr05258 (YZ Cnc, I filter)
UTC 2024-02-21 05:05:46.070
Mean = 1874.310
σ = 90.053
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1863.053
max = mean + 0.75 σ = 1941.85
Moon angle =4.49°
Moon phase =90.13%
Azimuth =120.23°
Elevation =83.21°
Hour Angle =-00:26:37.01°
Wind speed =8.21 km/hr = 5.1 miles/hr
Wind Direction =202.0° E of N
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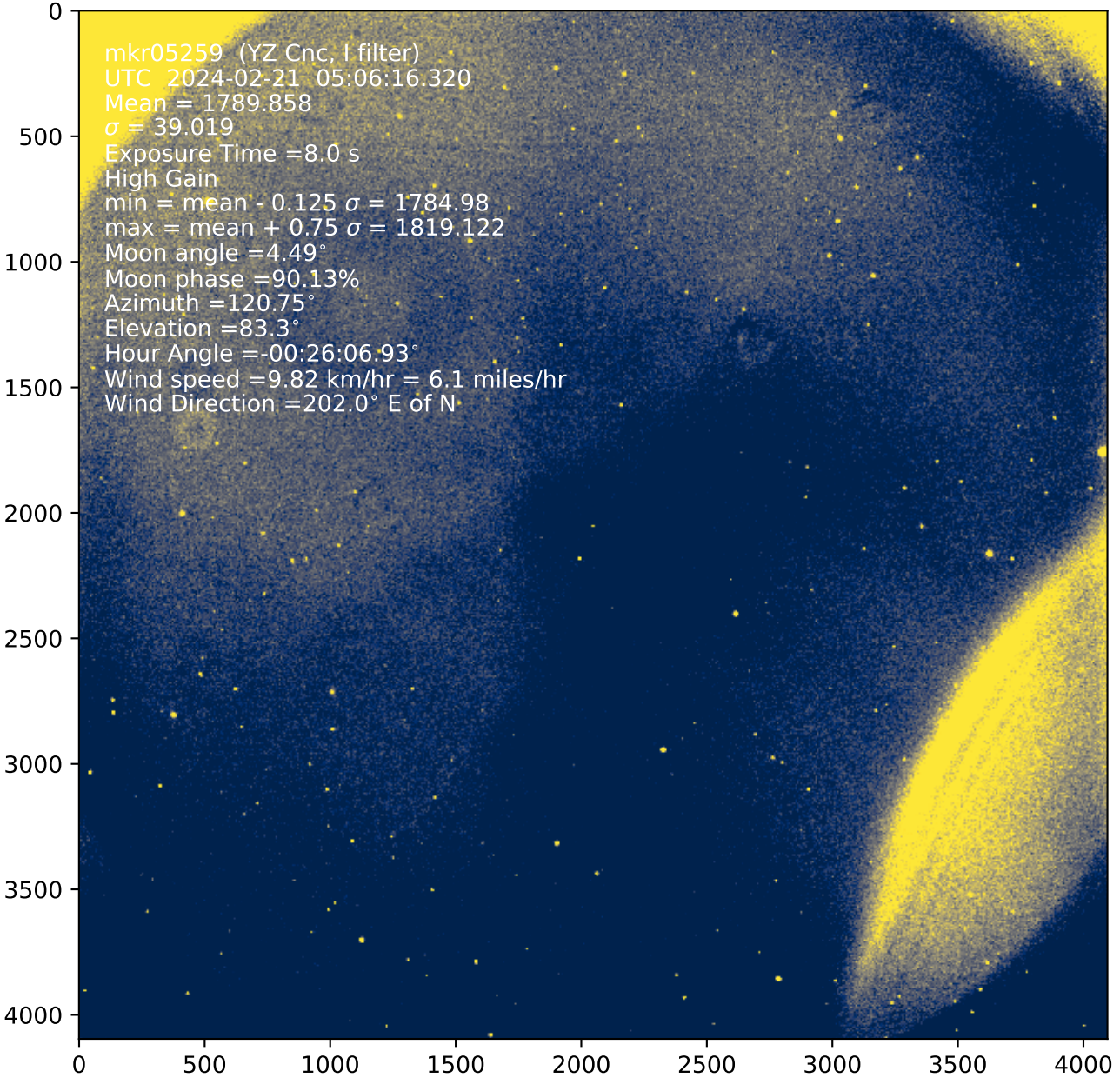
mkr05259 (YZ Cnc, I filter)
UTC 2024-02-21 05:06:16.320
Mean = 1789.858
σ = 39.019
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1784.98
max = mean + 0.75 σ = 1819.122
Moon angle =4.49°
Moon phase =90.13%
Azimuth =120.75°
Elevation =83.3°
Hour Angle =-00:26:06.93°
Wind speed =9.82 km/hr = 6.1 miles/hr
Wind Direction =202.0° E of N
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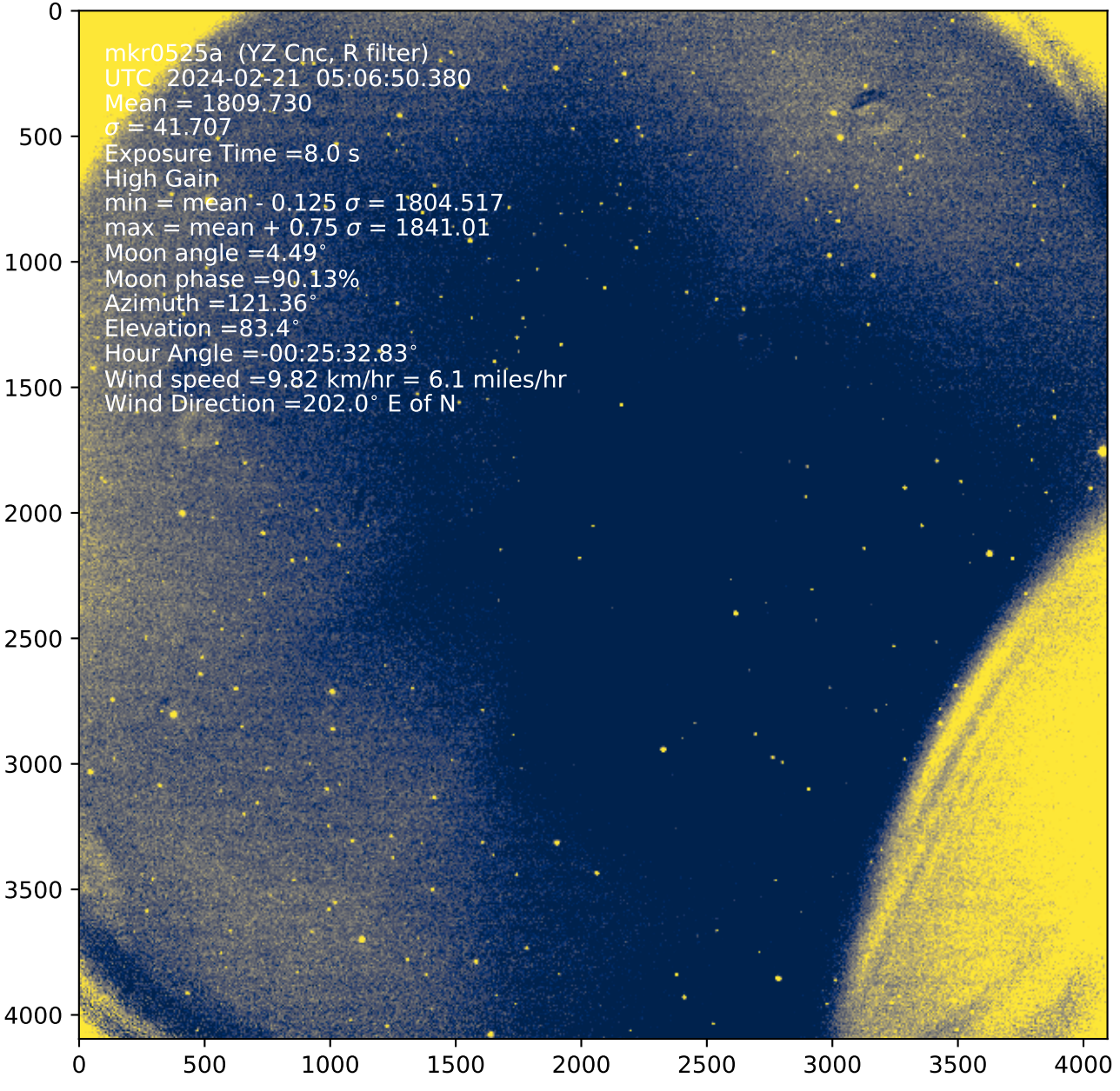
mkr0525a (YZ Cnc, R filter)
UTC 2024-02-21 05:06:50.380
Mean = 1809.730
σ = 41.707
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1804.517
max = mean + 0.75 σ = 1841.01
Moon angle =4.49°
Moon phase =90.13%
Azimuth =121.36°
Elevation =83.4°
Hour Angle =-00:25:32.83°
Wind speed =9.82 km/hr = 6.1 miles/hr
Wind Direction =202.0° E of N
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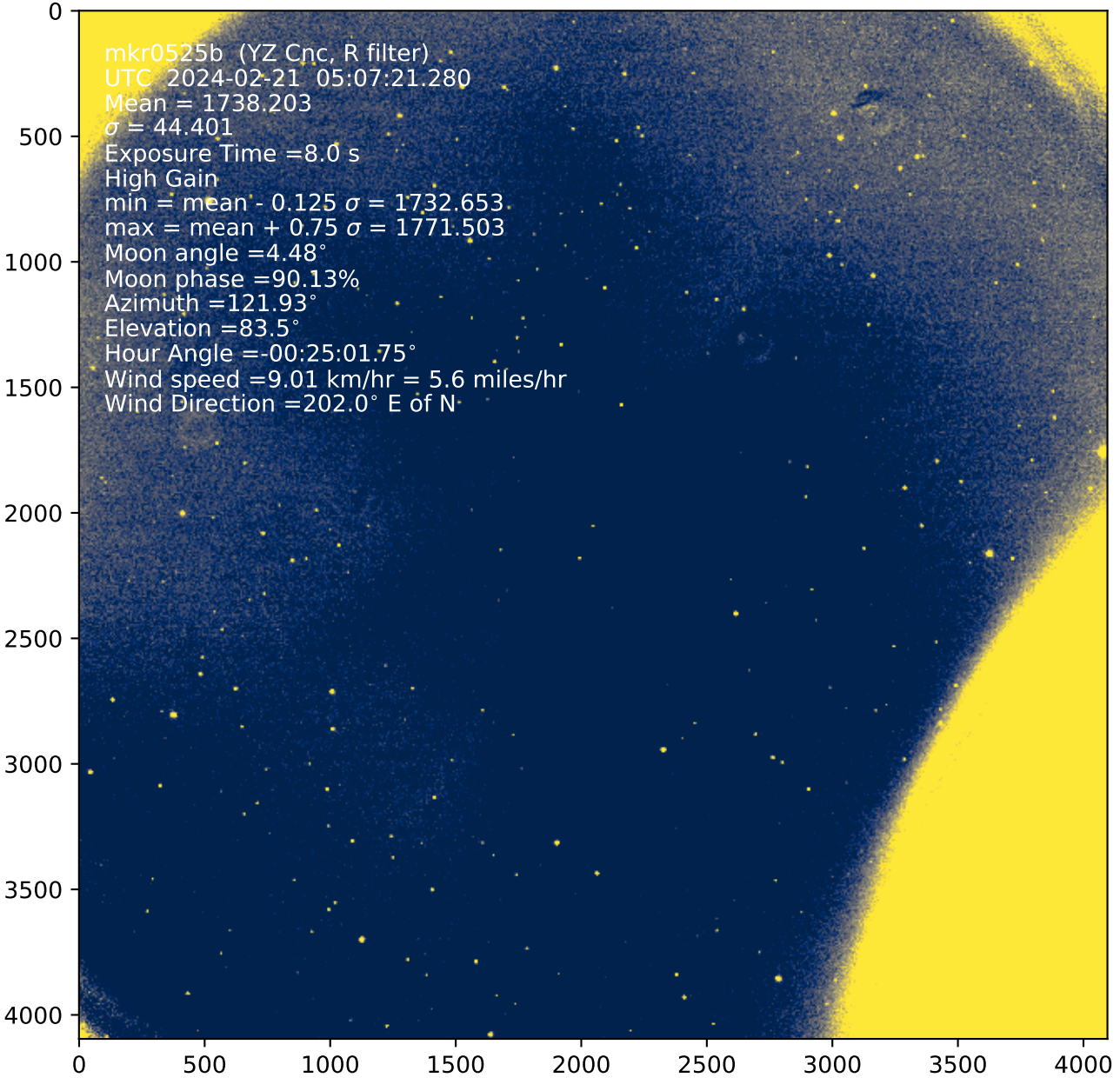
mkr0525b (YZ Cnc, R filter)
UTC 2024-02-21 05:07:21.280
Mean = 1738.203
σ = 44.401
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1732.653
max = mean + 0.75 σ = 1771.503
Moon angle =4.48°
Moon phase =90.13%
Azimuth =121.93°
Elevation =83.5°
Hour Angle =-00:25:01.75°
Wind speed =9.01 km/hr = 5.6 miles/hr
Wind Direction =202.0° E of N
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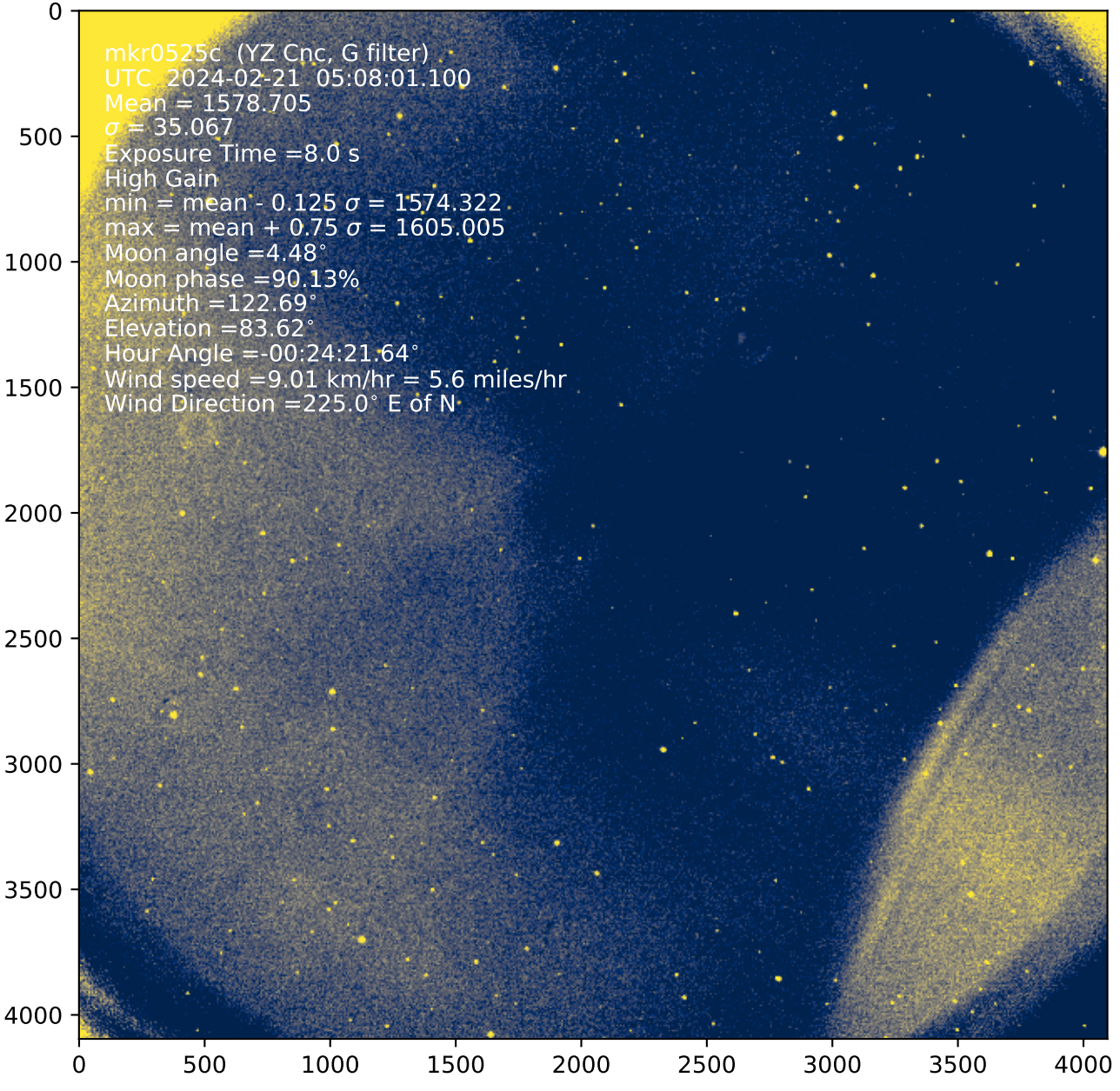
mkr0525c (YZ Cnc, G filter)
UTC 2024-02-21 05:08:01.100
Mean = 1578.705
σ = 35.067
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1574.322
max = mean + 0.75 σ = 1605.005
Moon angle =4.48°
Moon phase =90.13%
Azimuth =122.69°
Elevation =83.62°
Hour Angle =-00:24:21.64°
Wind speed =9.01 km/hr = 5.6 miles/hr
Wind Direction =225.0° E of N
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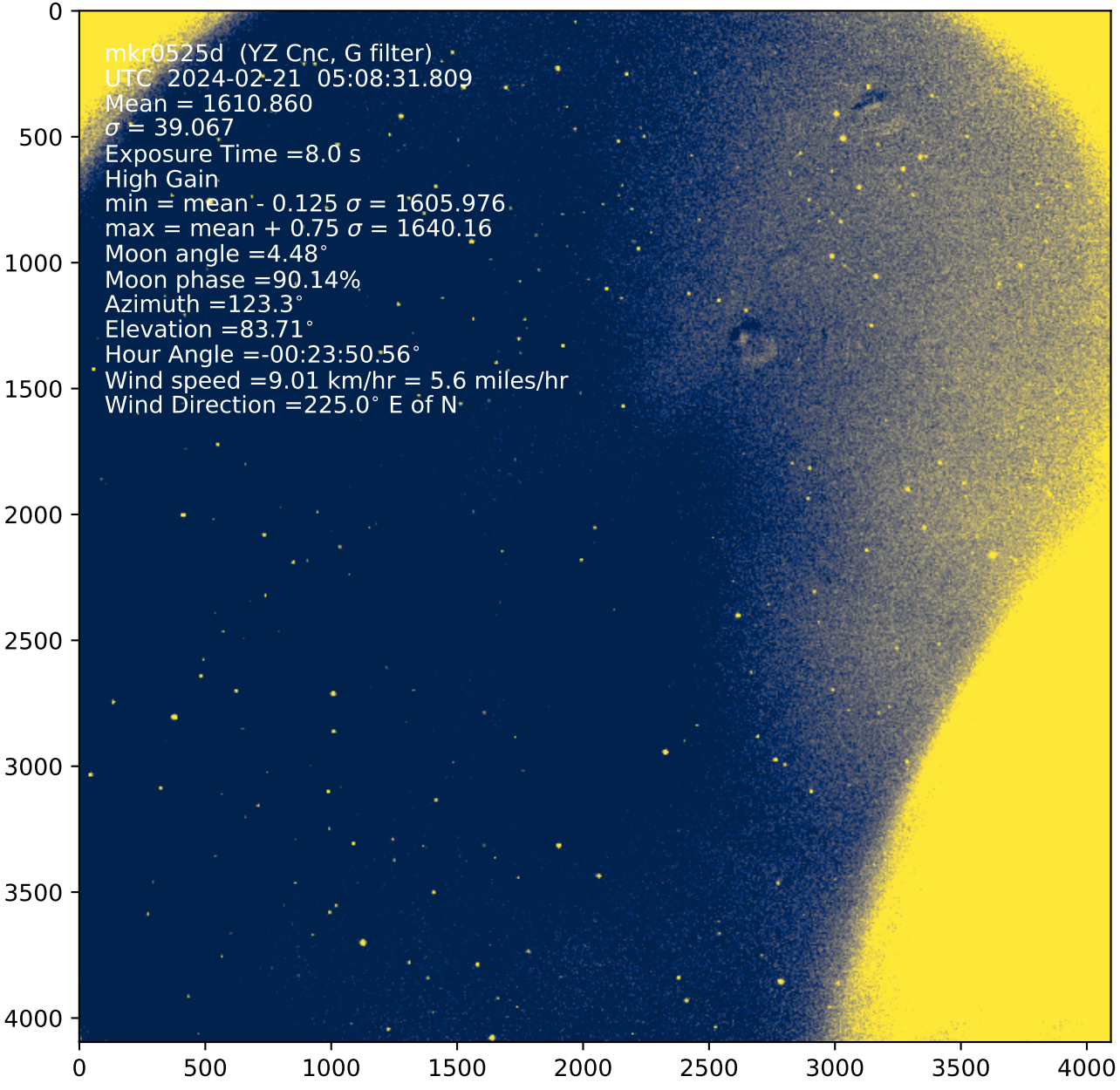
mkr0525d (YZ Cnc, G filter)
UTC 2024-02-21 05:08:31.809
Mean = 1610.860
σ = 39.067
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1605.976
max = mean + 0.75 σ = 1640.16
Moon angle =4.48°
Moon phase =90.14%
Azimuth =123.3°
Elevation =83.71°
Hour Angle =-00:23:50.56°
Wind speed =9.01 km/hr = 5.6 miles/hr
Wind Direction =225.0° E of N
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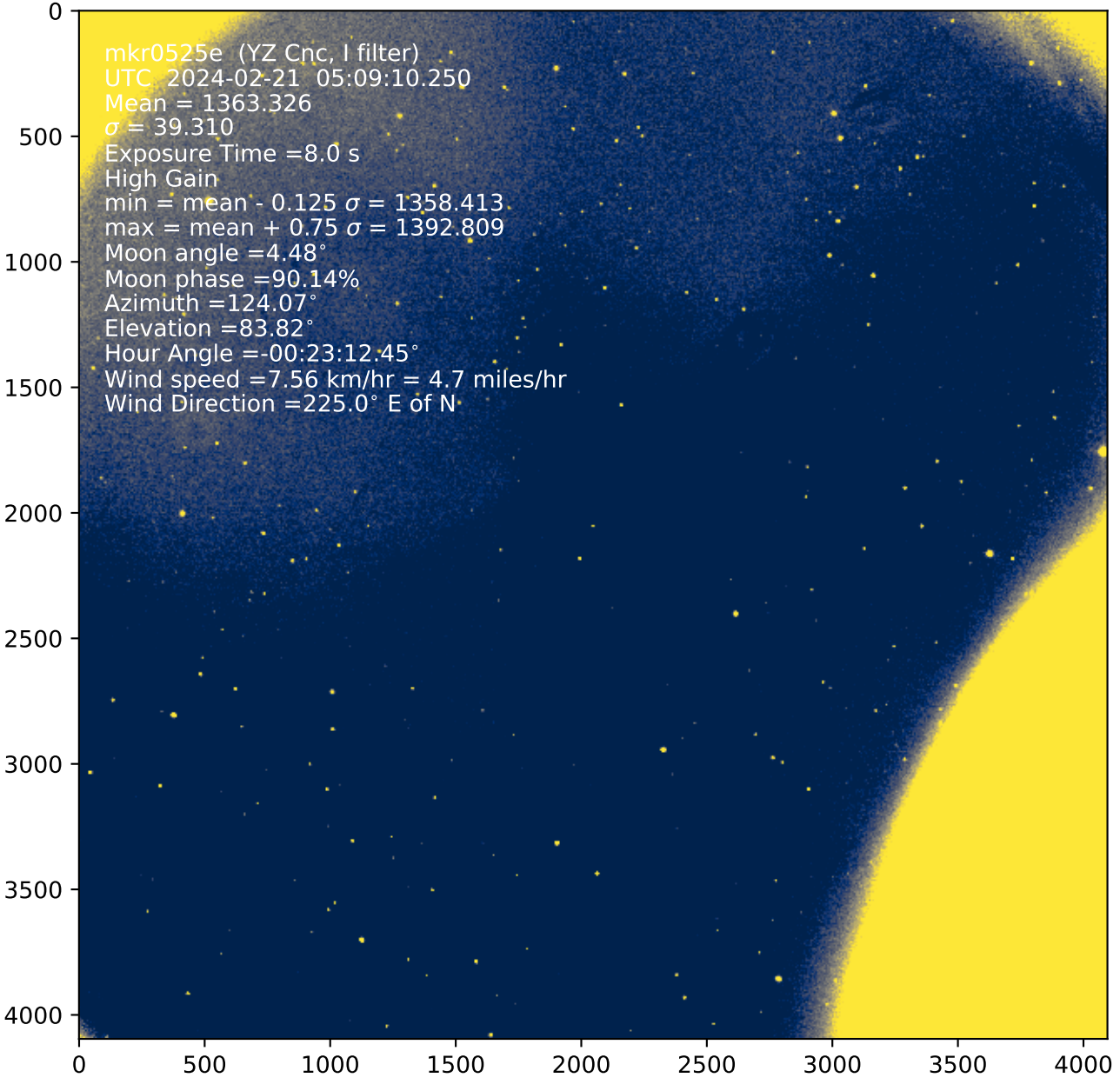
mkr0525e (YZ Cnc, I filter)
UTC 2024-02-21 05:09:10.250
Mean = 1363.326
σ = 39.310
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1358.413
max = mean + 0.75 σ = 1392.809
Moon angle =4.48°
Moon phase =90.14%
Azimuth =124.07°
Elevation =83.82°
Hour Angle =-00:23:12.45°
Wind speed =7.56 km/hr = 4.7 miles/hr
Wind Direction =225.0° E of N
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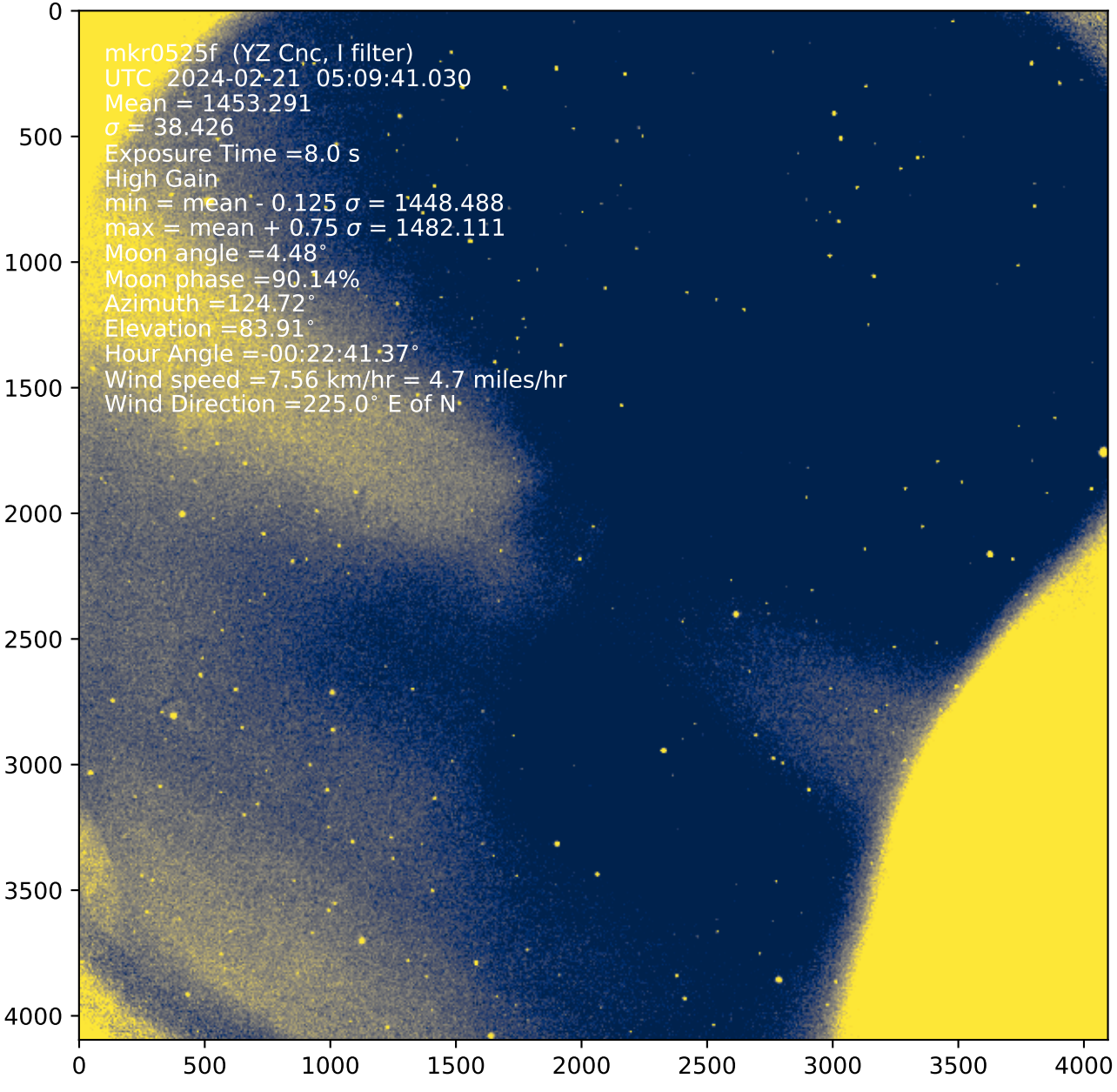
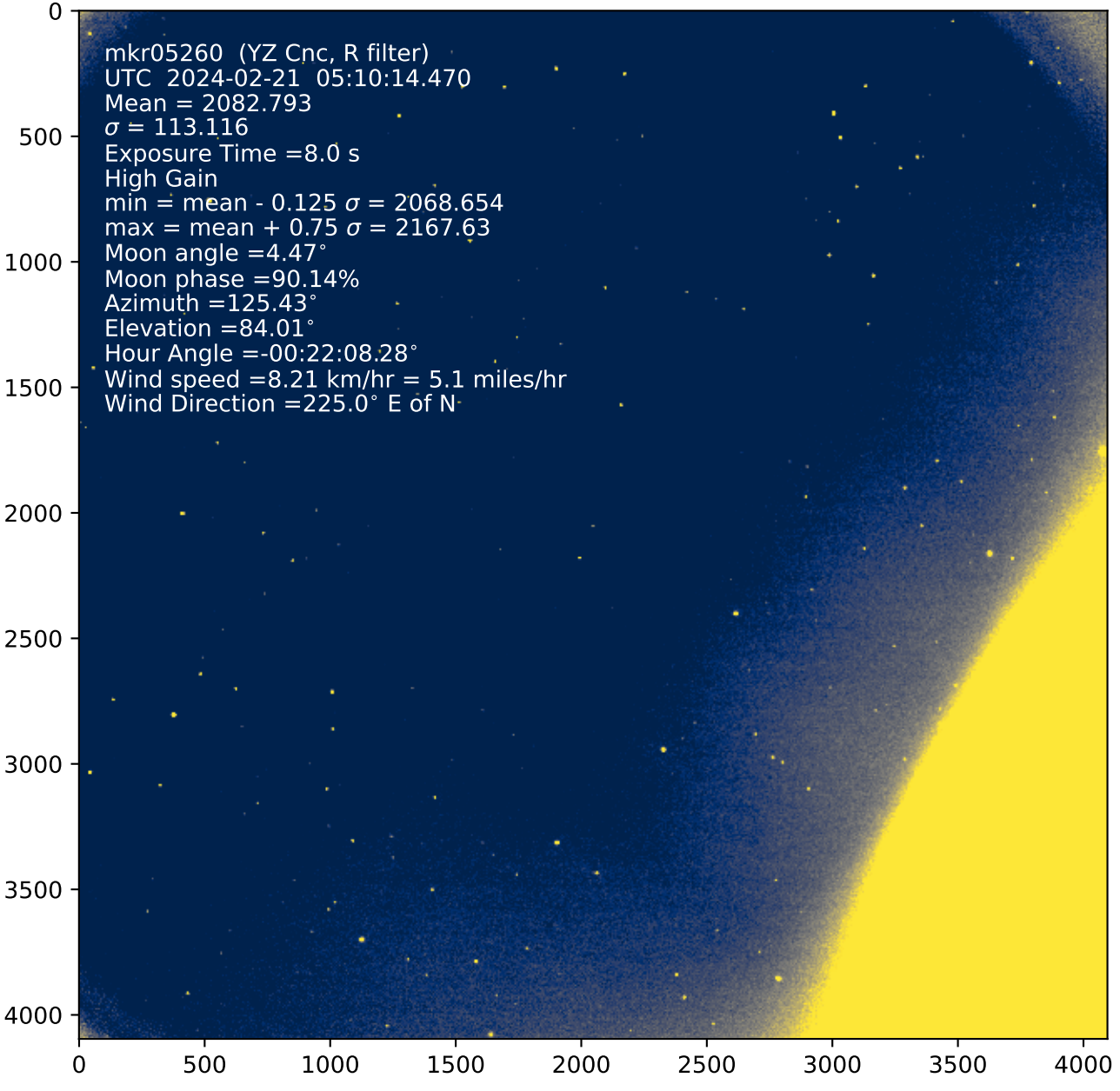
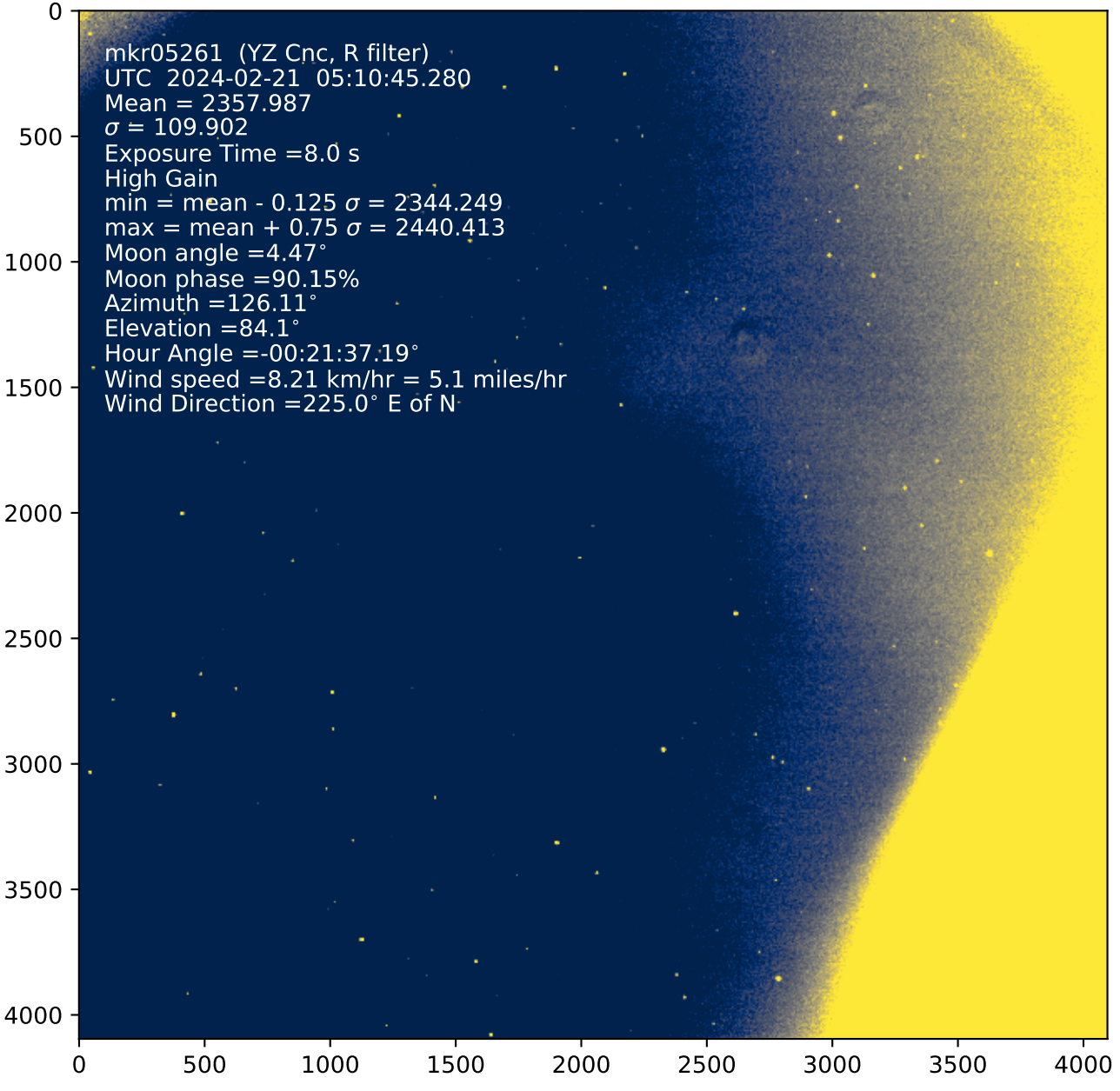

mkr0525f (YZ Cnc, I filter)
UTC 2024-02-21 05:09:41.030
Mean = 1453.291
σ = 38.426
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1448.488
max = mean + 0.75 σ = 1482.111
Moon angle =4.48°
Moon phase =90.14%
Azimuth =124.72°
Elevation =83.91°
Hour Angle =-00:22:41.37°
Wind speed =7.56 km/hr = 4.7 miles/hr
Wind Direction =225.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr05260 (YZ Cnc, R filter)
UTC 2024-02-21 05:10:14.470
Mean = 2082.793
σ = 113.116
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2068.654
max = mean + 0.75 σ = 2167.63
Moon angle =4.47°
Moon phase =90.14%
Azimuth =125.43°
Elevation =84.01°
Hour Angle =-00:22:08.28°
Wind speed =8.21 km/hr = 5.1 miles/hr
Wind Direction =225.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr05261 (YZ Cnc, R filter)
UTC 2024-02-21 05:10:45.280
Mean = 2357.987
σ = 109.902
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2344.249
max = mean + 0.75 σ = 2440.413
Moon angle =4.47°
Moon phase =90.15%
Azimuth =126.11°
Elevation =84.1°
Hour Angle =-00:21:37.19°
Wind speed =8.21 km/hr = 5.1 miles/hr
Wind Direction =225.0° E of N
0
500
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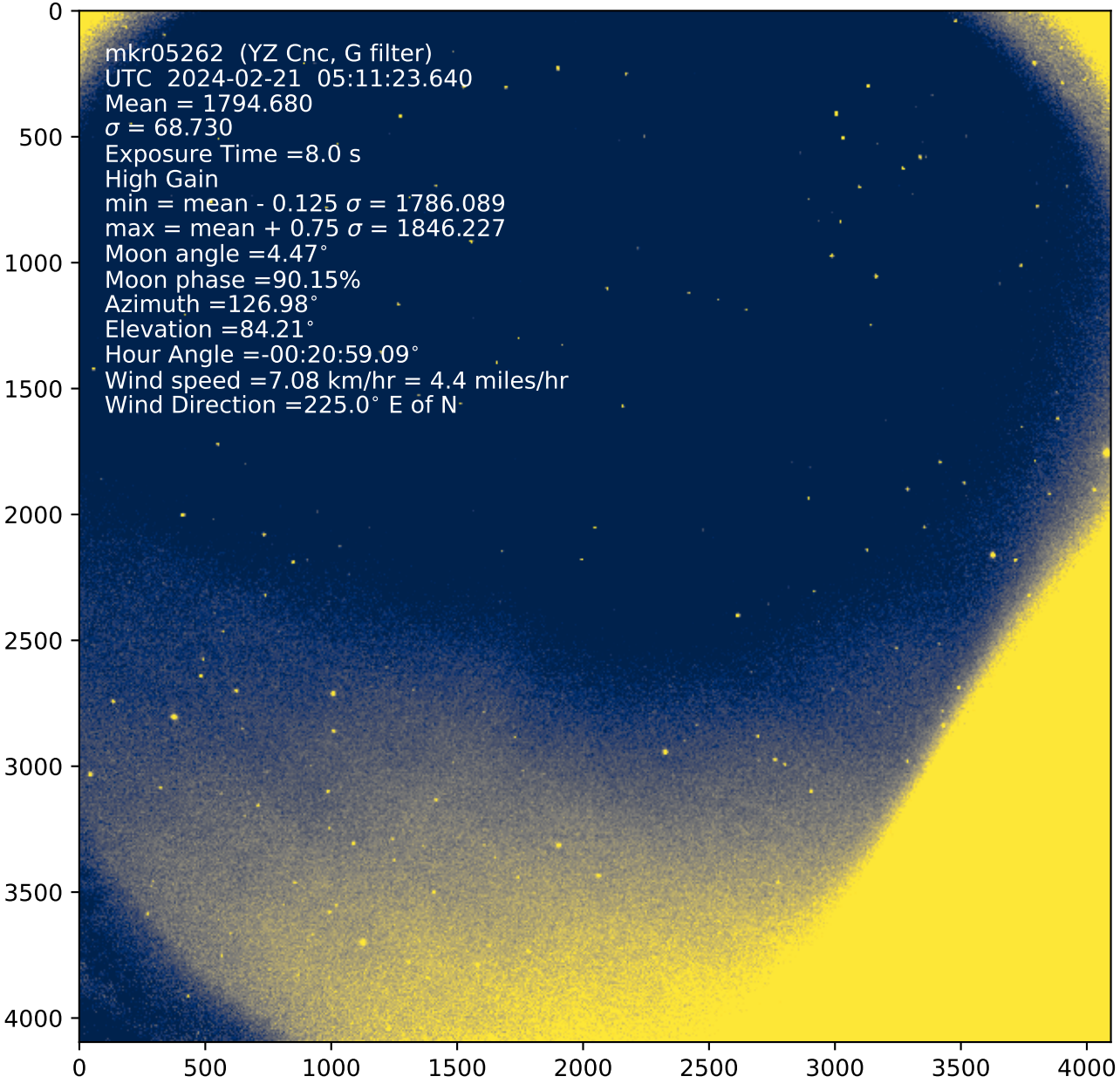
1500
2000
2500
3000
3500
4000


mkr05262 (YZ Cnc, G filter)
UTC 2024-02-21 05:11:23.640
Mean = 1794.680
σ = 68.730
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1786.089
max = mean + 0.75 σ = 1846.227
Moon angle =4.47°
Moon phase =90.15%
Azimuth =126.98°
Elevation =84.21°
Hour Angle =-00:20:59.09°
Wind speed =7.08 km/hr = 4.4 miles/hr
Wind Direction =225.0° E of N
0
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2500
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3500
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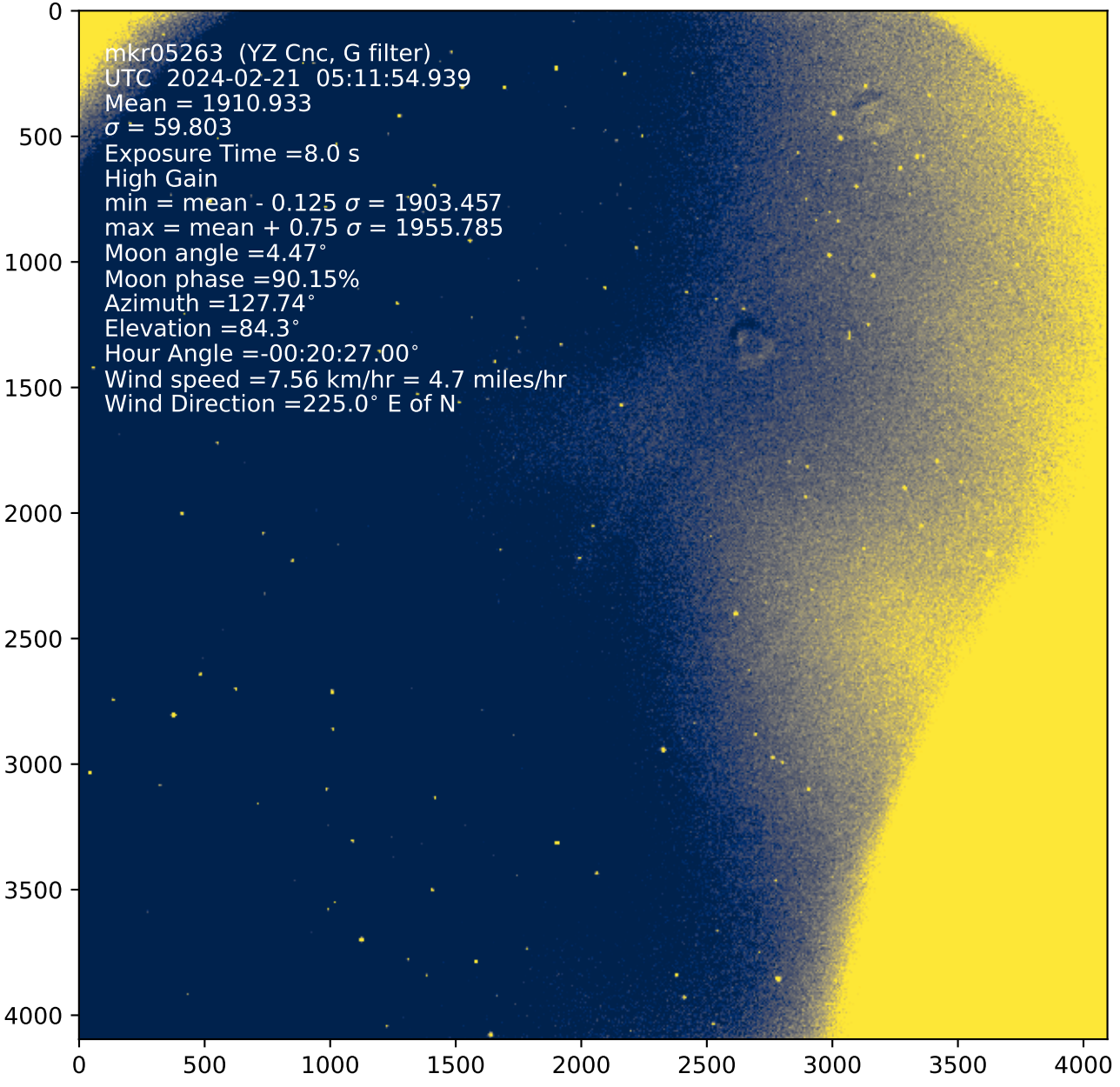
mkr05263 (YZ Cnc, G filter)
UTC 2024-02-21 05:11:54.939
Mean = 1910.933
σ = 59.803
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1903.457
max = mean + 0.75 σ = 1955.785
Moon angle =4.47°
Moon phase =90.15%
Azimuth =127.74°
Elevation =84.3°
Hour Angle =-00:20:27.00°
Wind speed =7.56 km/hr = 4.7 miles/hr
Wind Direction =225.0° E of N
0
500
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2500
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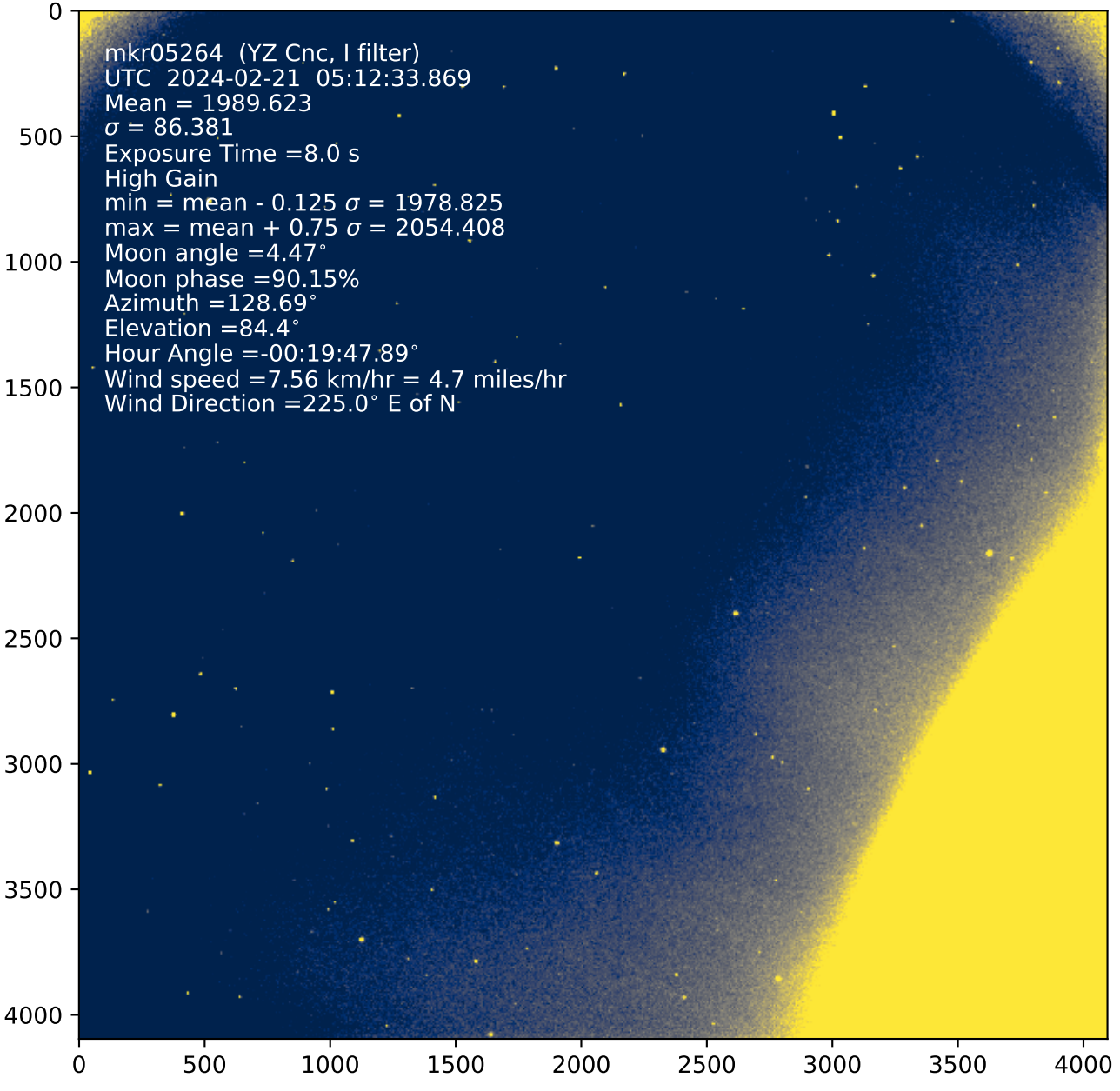
3500
4000


mkr05264 (YZ Cnc, I filter)
UTC 2024-02-21 05:12:33.869
Mean = 1989.623
σ = 86.381
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1978.825
max = mean + 0.75 σ = 2054.408
Moon angle =4.47°
Moon phase =90.15%
Azimuth =128.69°
Elevation =84.4°
Hour Angle =-00:19:47.89°
Wind speed =7.56 km/hr = 4.7 miles/hr
Wind Direction =225.0° E of N
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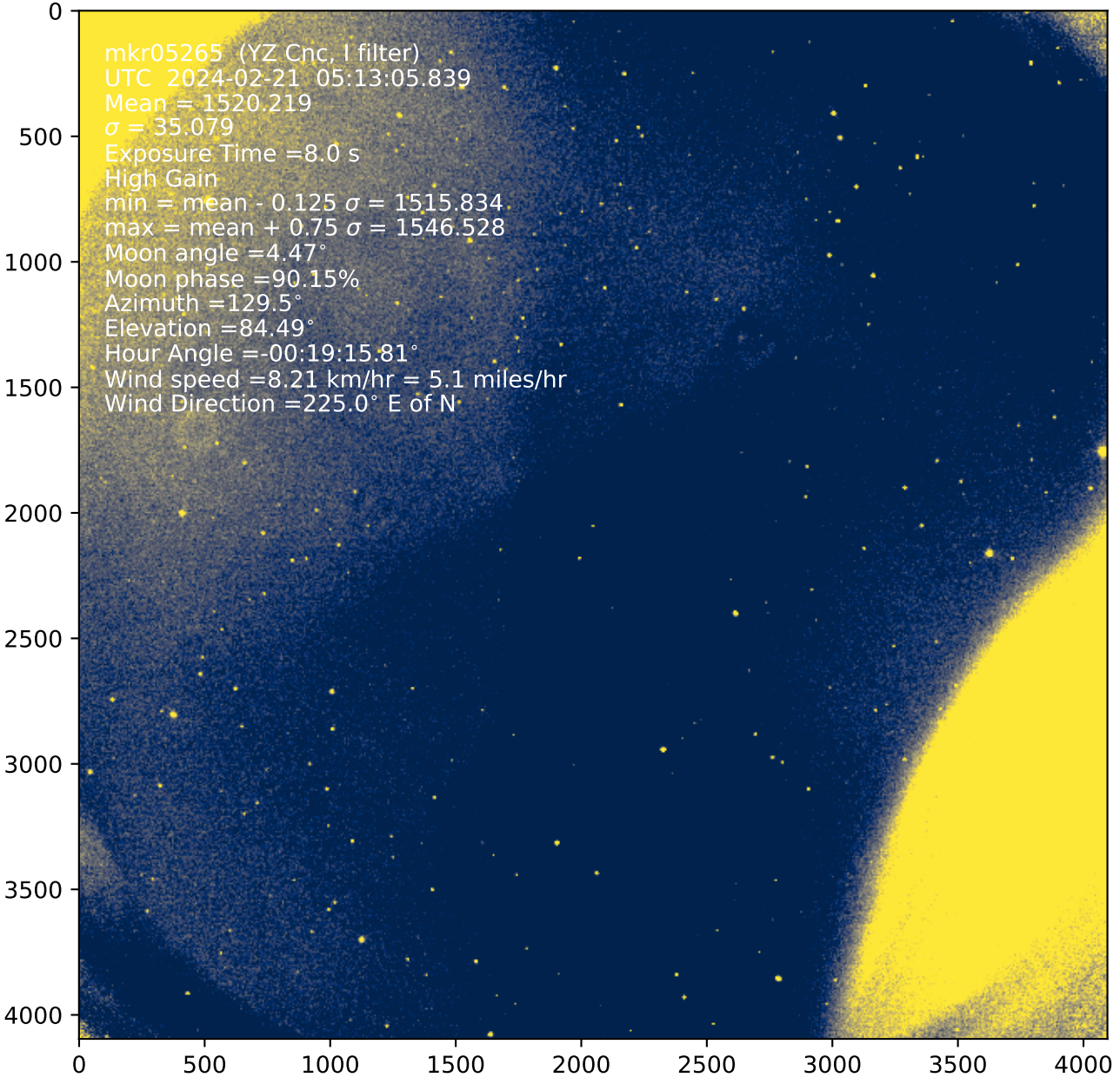
mkr05265 (YZ Cnc, I filter)
UTC 2024-02-21 05:13:05.839
Mean = 1520.219
σ = 35.079
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1515.834
max = mean + 0.75 σ = 1546.528
Moon angle =4.47°
Moon phase =90.15%
Azimuth =129.5°
Elevation =84.49°
Hour Angle =-00:19:15.81°
Wind speed =8.21 km/hr = 5.1 miles/hr
Wind Direction =225.0° E of N
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3500
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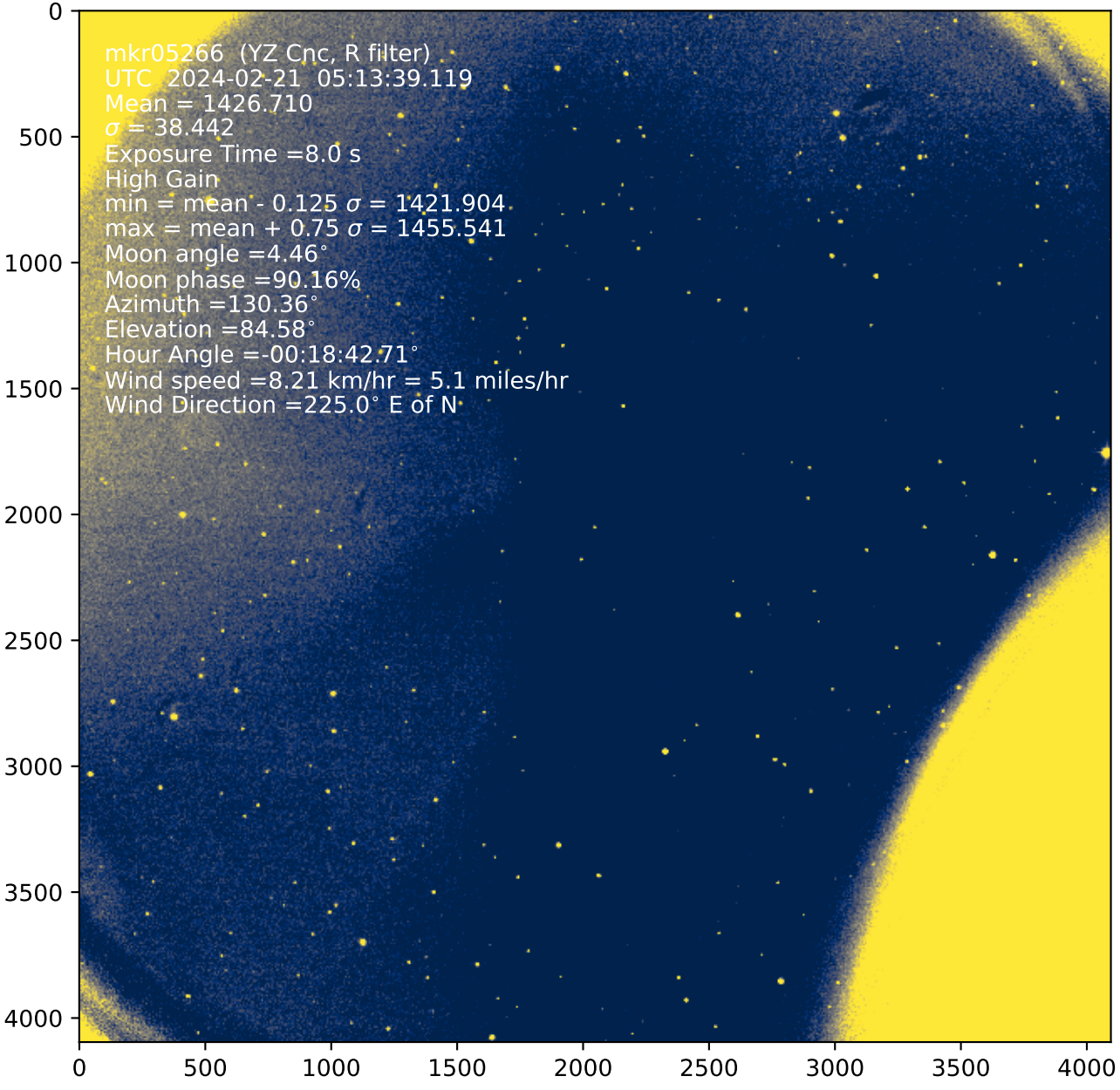
mkr05266 (YZ Cnc, R filter)
UTC 2024-02-21 05:13:39.119
Mean = 1426.710
σ = 38.442
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1421.904
max = mean + 0.75 σ = 1455.541
Moon angle =4.46°
Moon phase =90.16%
Azimuth =130.36°
Elevation =84.58°
Hour Angle =-00:18:42.71°
Wind speed =8.21 km/hr = 5.1 miles/hr
Wind Direction =225.0° E of N
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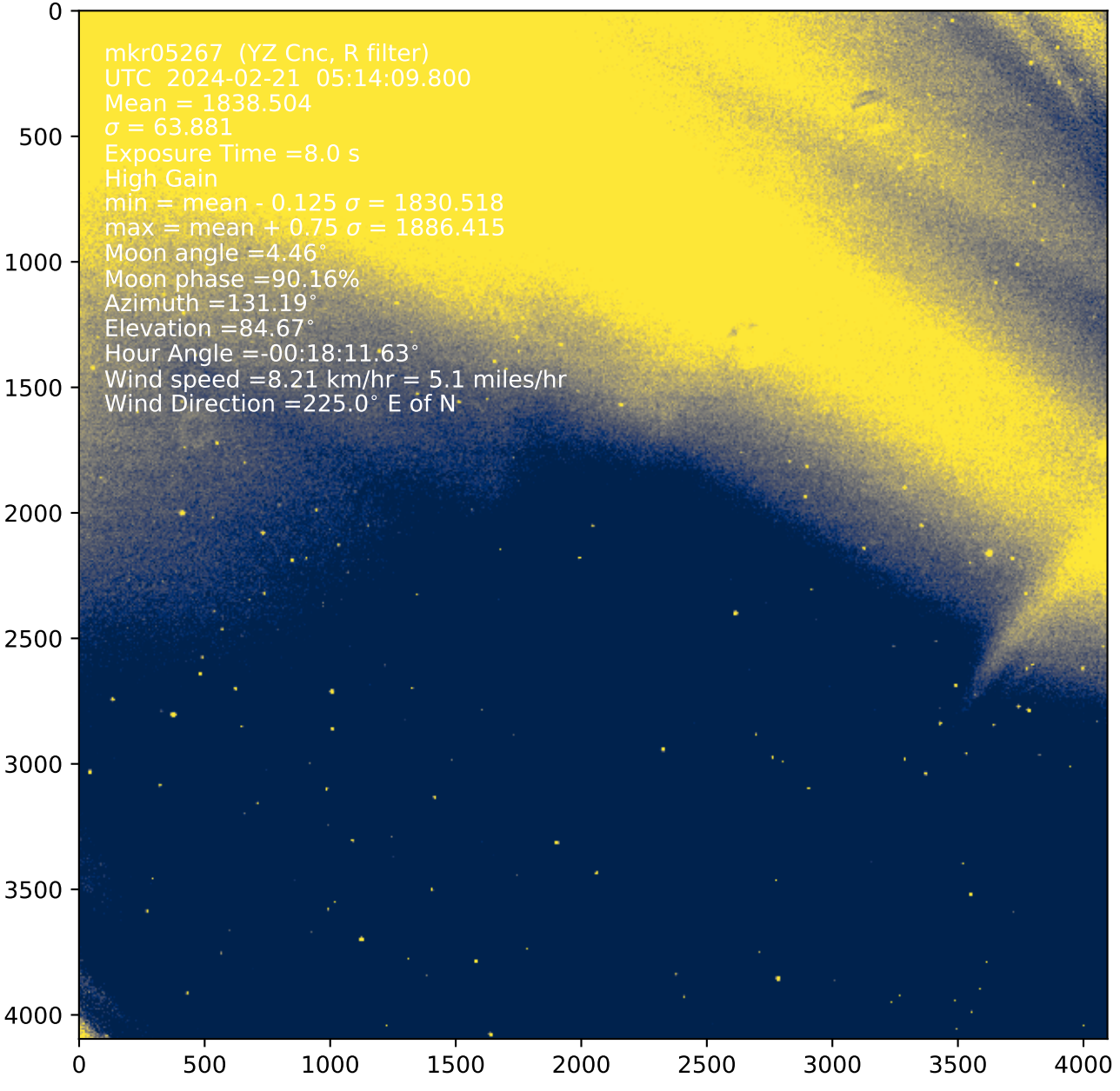
mkr05267 (YZ Cnc, R filter)
UTC 2024-02-21 05:14:09.800
Mean = 1838.504
σ = 63.881
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1830.518
max = mean + 0.75 σ = 1886.415
Moon angle =4.46°
Moon phase =90.16%
Azimuth =131.19°
Elevation =84.67°
Hour Angle =-00:18:11.63°
Wind speed =8.21 km/hr = 5.1 miles/hr
Wind Direction =225.0° E of N
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3500
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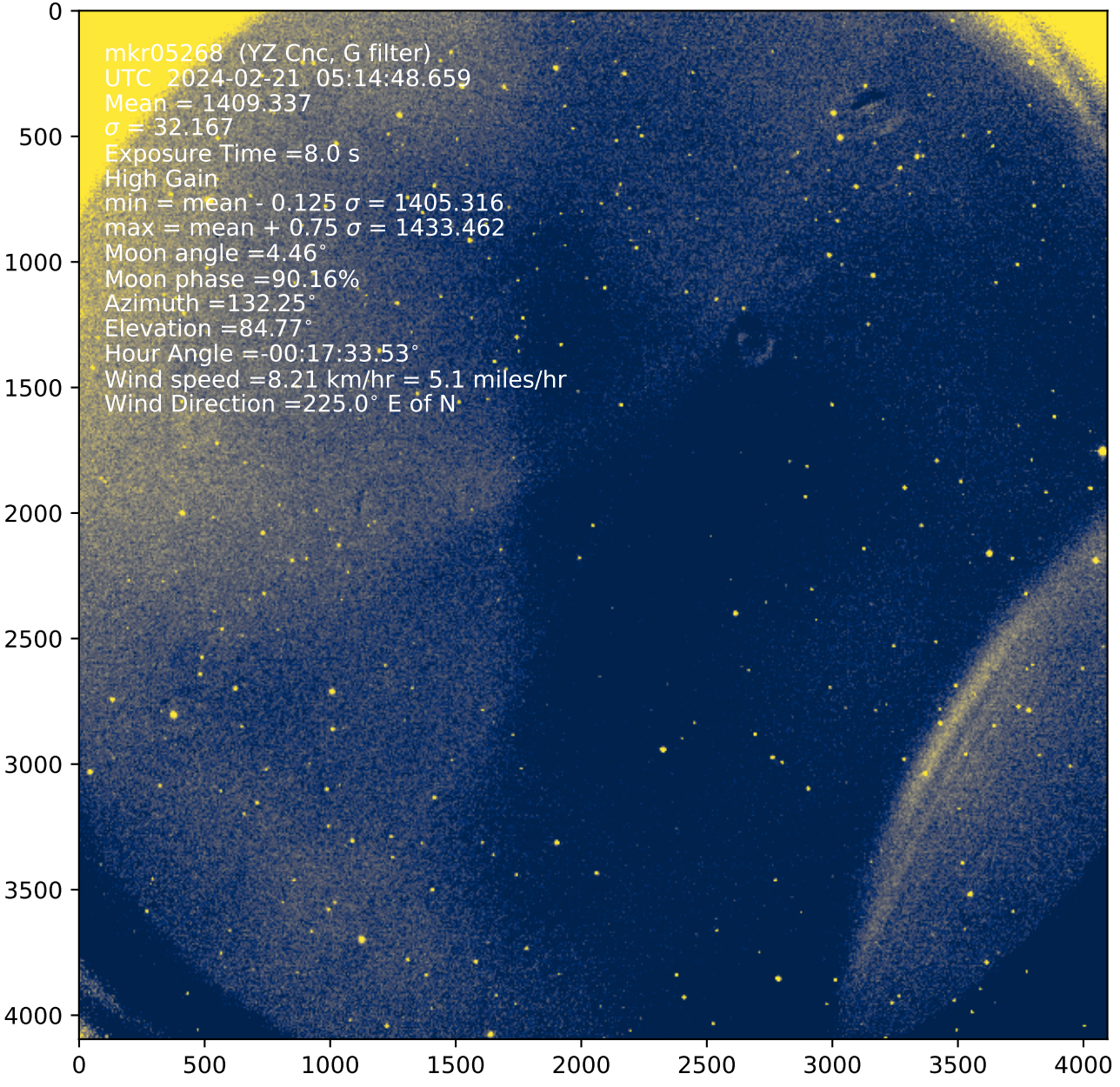
mkr05268 (YZ Cnc, G filter)
UTC 2024-02-21 05:14:48.659
Mean = 1409.337
σ = 32.167
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1405.316
max = mean + 0.75 σ = 1433.462
Moon angle =4.46°
Moon phase =90.16%
Azimuth =132.25°
Elevation =84.77°
Hour Angle =-00:17:33.53°
Wind speed =8.21 km/hr = 5.1 miles/hr
Wind Direction =225.0° E of N
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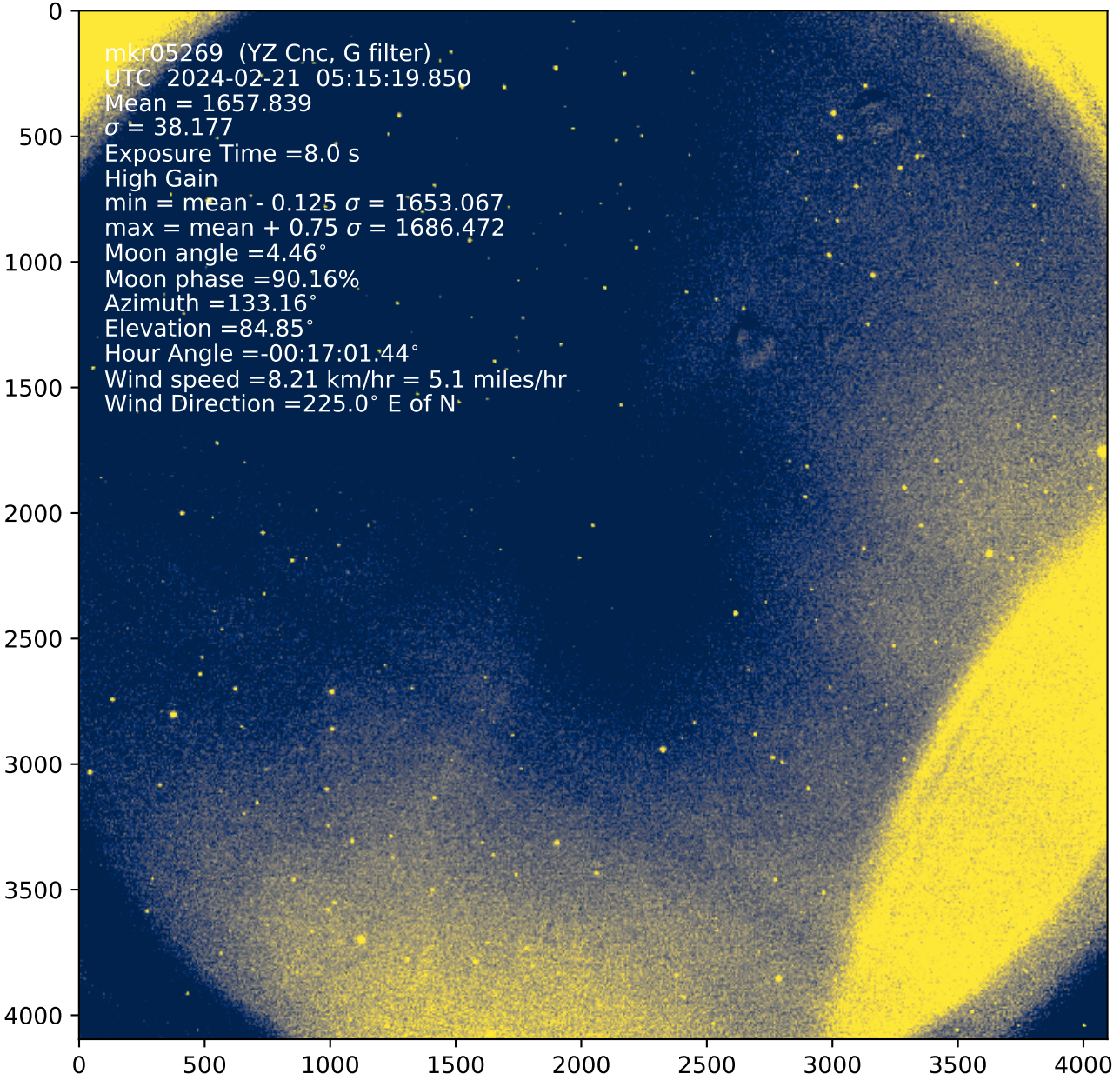
3500
4000


mkr05269 (YZ Cnc, G filter)
UTC 2024-02-21 05:15:19.850
Mean = 1657.839
σ = 38.177
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1653.067
max = mean + 0.75 σ = 1686.472
Moon angle =4.46°
Moon phase =90.16%
Azimuth =133.16°
Elevation =84.85°
Hour Angle =-00:17:01.44°
Wind speed =8.21 km/hr = 5.1 miles/hr
Wind Direction =225.0° E of N
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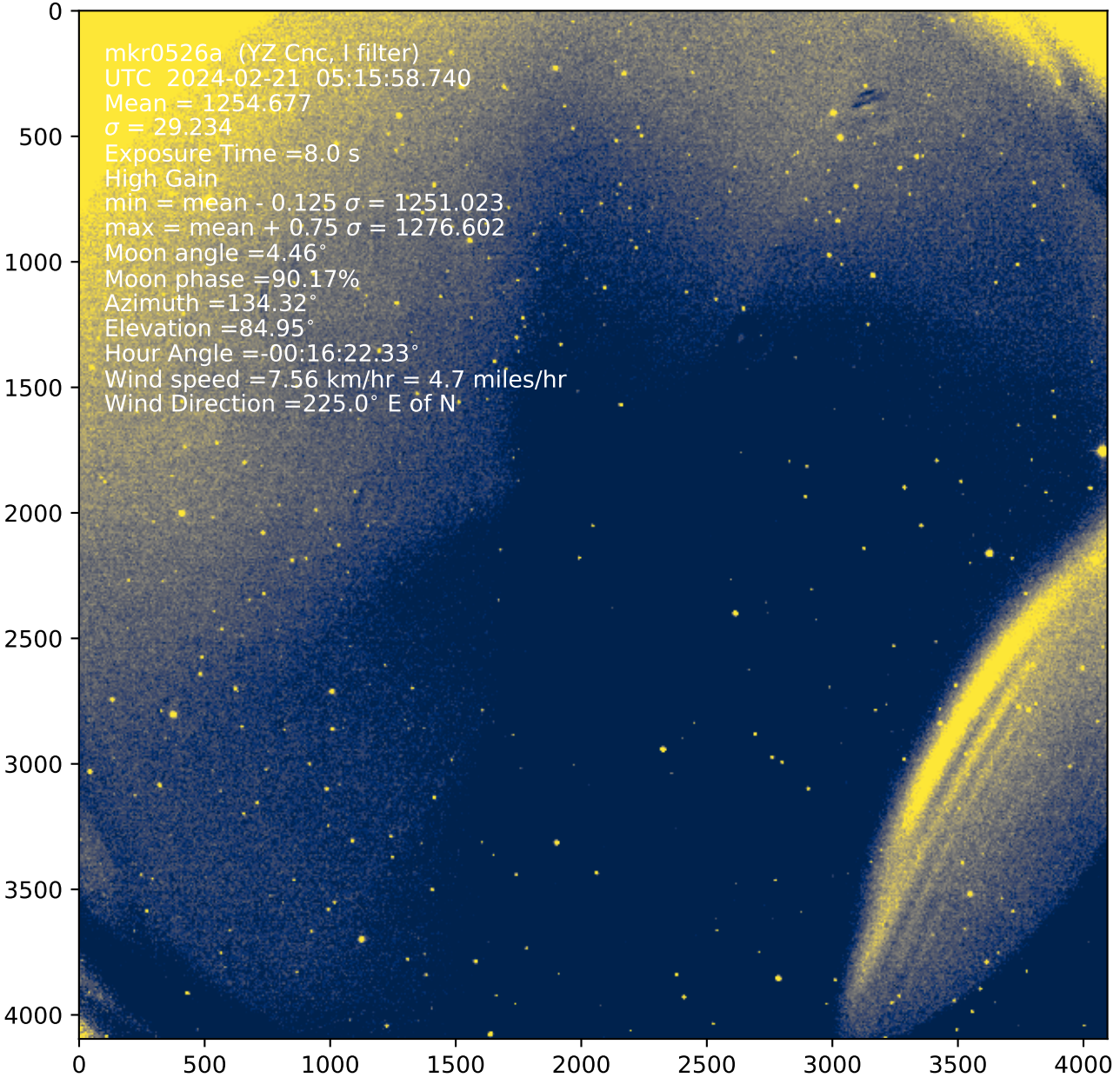
mkr0526a (YZ Cnc, I filter)
UTC 2024-02-21 05:15:58.740
Mean = 1254.677
σ = 29.234
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1251.023
max = mean + 0.75 σ = 1276.602
Moon angle =4.46°
Moon phase =90.17%
Azimuth =134.32°
Elevation =84.95°
Hour Angle =-00:16:22.33°
Wind speed =7.56 km/hr = 4.7 miles/hr
Wind Direction =225.0° E of N
0
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2500
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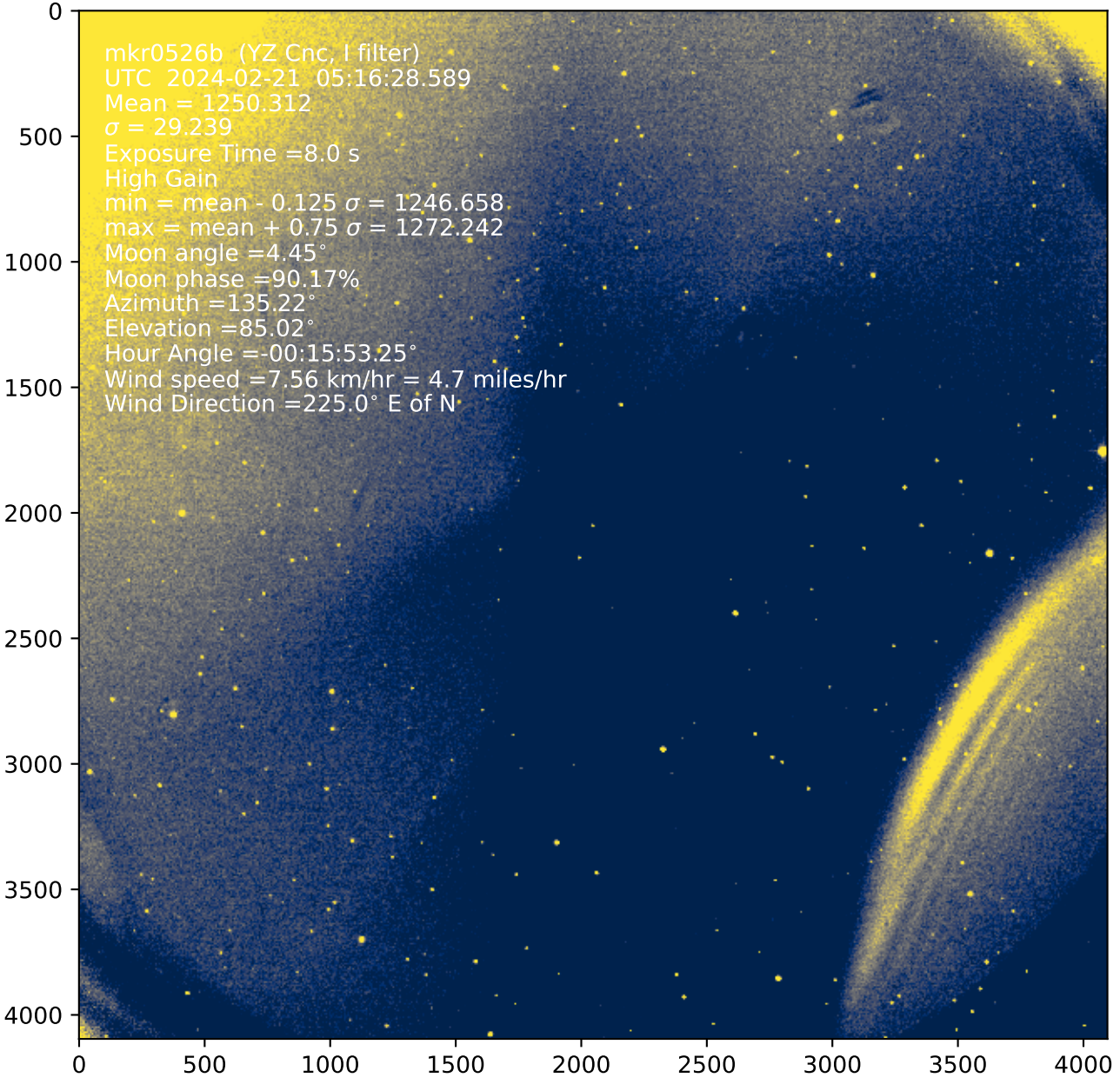
3500
4000


mkr0526b (YZ Cnc, I filter)
UTC 2024-02-21 05:16:28.589
Mean = 1250.312
σ = 29.239
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1246.658
max = mean + 0.75 σ = 1272.242
Moon angle =4.45°
Moon phase =90.17%
Azimuth =135.22°
Elevation =85.02°
Hour Angle =-00:15:53.25°
Wind speed =7.56 km/hr = 4.7 miles/hr
Wind Direction =225.0° E of N
0
500
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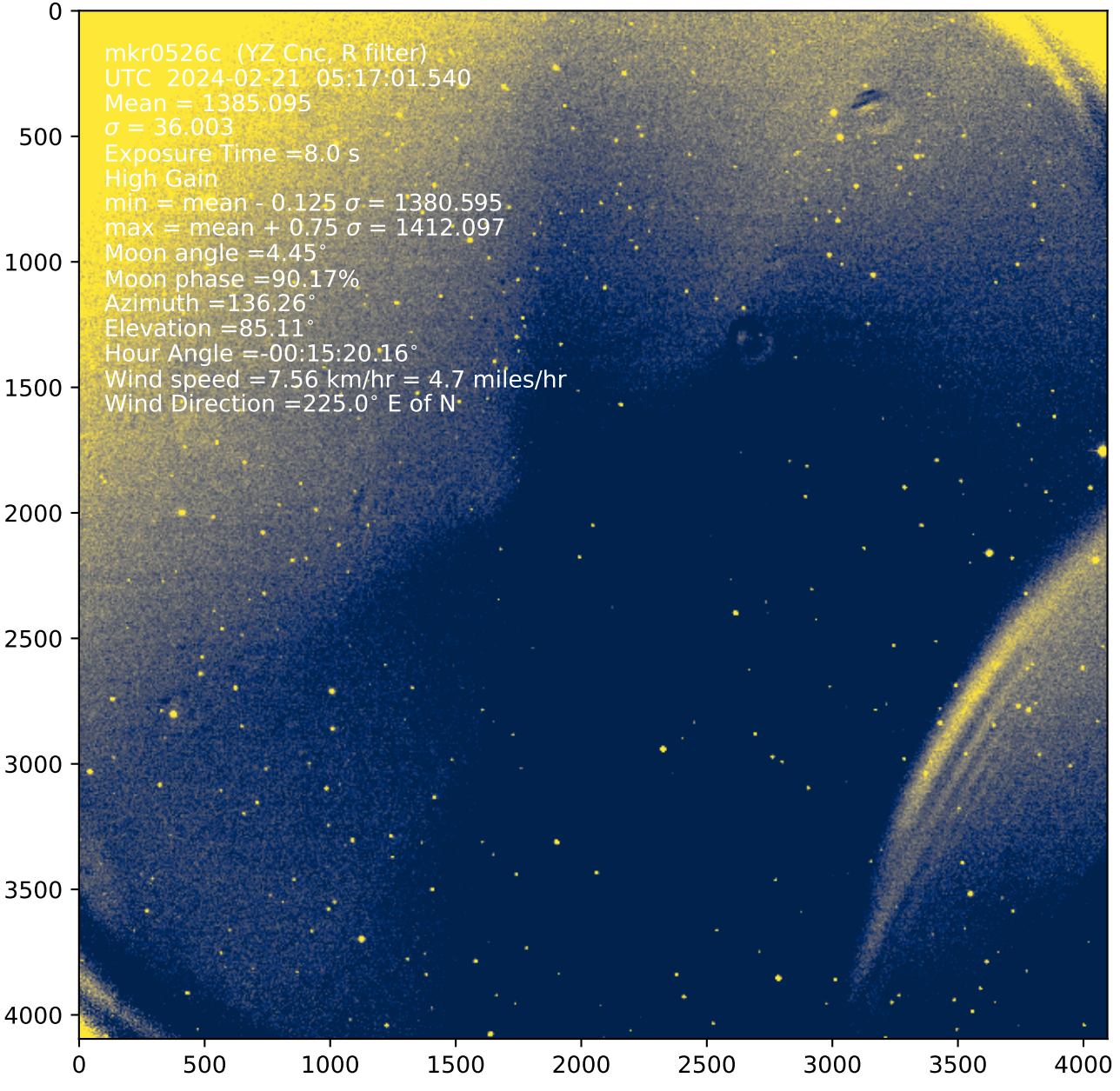
2500
3000
3500
4000


mkr0526c (YZ Cnc, R filter)
UTC 2024-02-21 05:17:01.540
Mean = 1385.095
σ = 36.003
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1380.595
max = mean + 0.75 σ = 1412.097
Moon angle =4.45°
Moon phase =90.17%
Azimuth =136.26°
Elevation =85.11°
Hour Angle =-00:15:20.16°
Wind speed =7.56 km/hr = 4.7 miles/hr
Wind Direction =225.0° E of N
0
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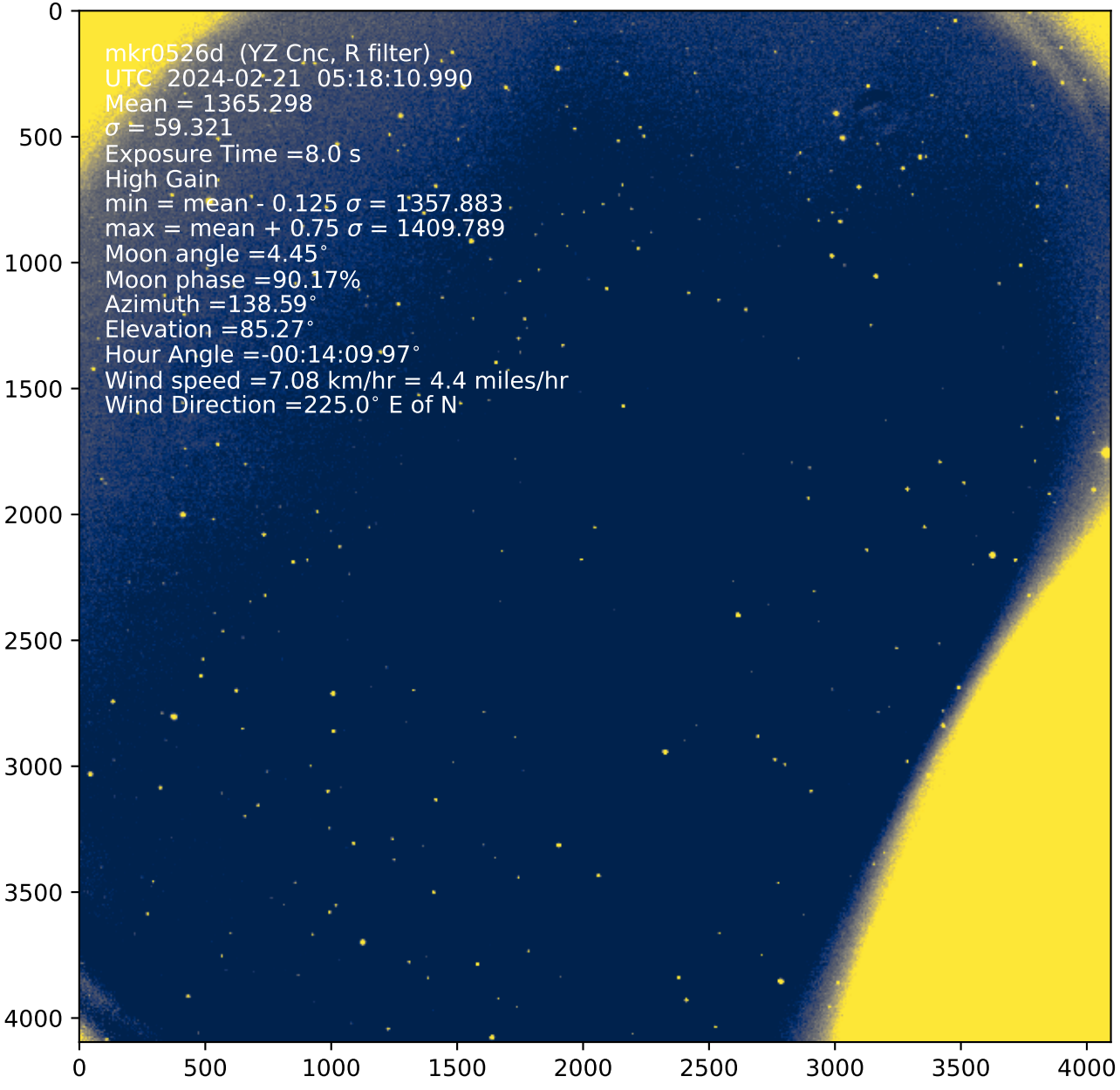
2500
3000
3500
4000


mkr0526d (YZ Cnc, R filter)
UTC 2024-02-21 05:18:10.990
Mean = 1365.298
σ = 59.321
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1357.883
max = mean + 0.75 σ = 1409.789
Moon angle =4.45°
Moon phase =90.17%
Azimuth =138.59°
Elevation =85.27°
Hour Angle =-00:14:09.97°
Wind speed =7.08 km/hr = 4.4 miles/hr
Wind Direction =225.0° E of N
0
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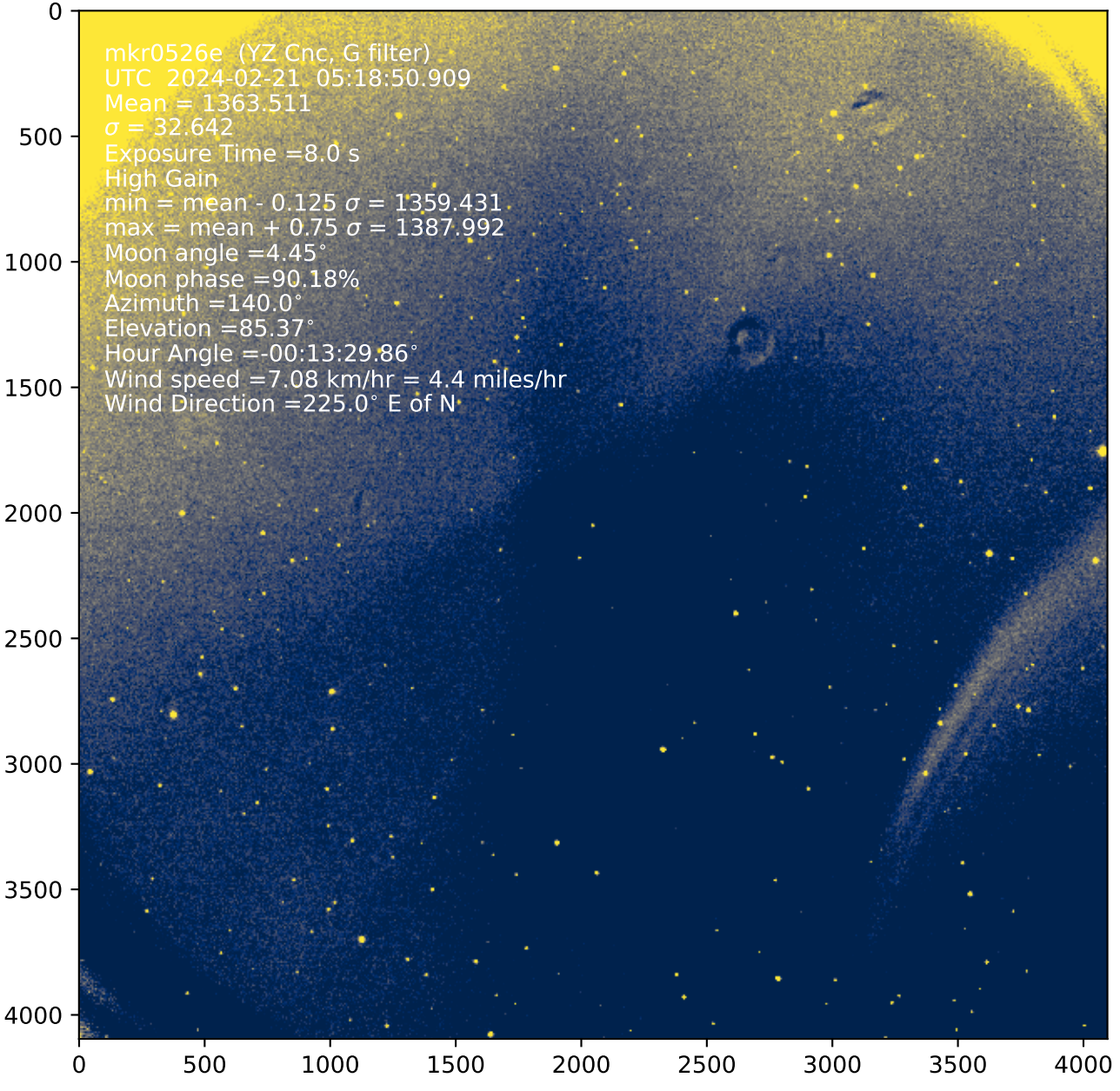
3000
3500
4000


mkr0526e (YZ Cnc, G filter)
UTC 2024-02-21 05:18:50.909
Mean = 1363.511
σ = 32.642
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1359.431
max = mean + 0.75 σ = 1387.992
Moon angle =4.45°
Moon phase =90.18%
Azimuth =140.0°
Elevation =85.37°
Hour Angle =-00:13:29.86°
Wind speed =7.08 km/hr = 4.4 miles/hr
Wind Direction =225.0° E of N
0
500
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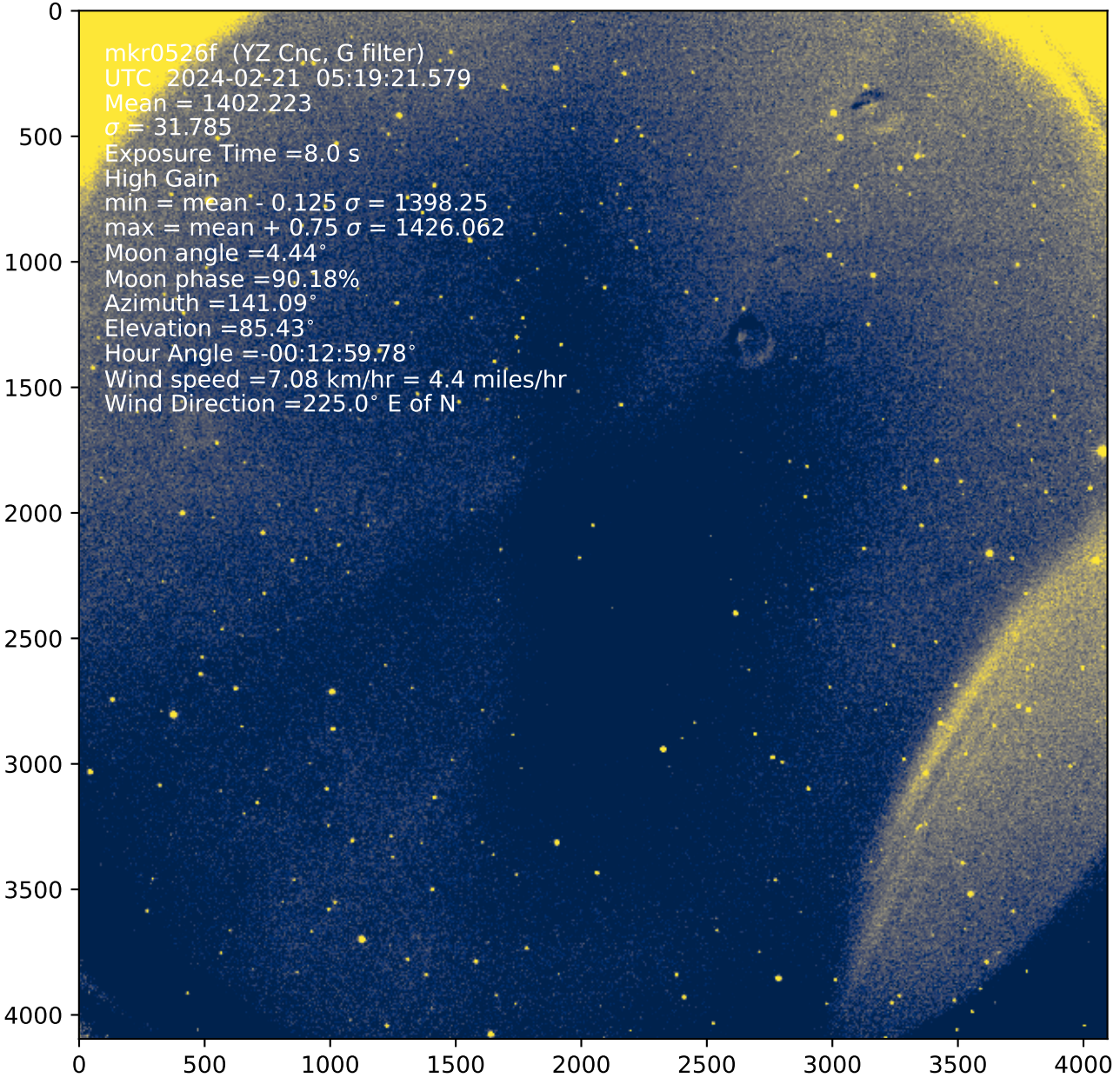
2500
3000
3500
4000


mkr0526f (YZ Cnc, G filter)
UTC 2024-02-21 05:19:21.579
Mean = 1402.223
σ = 31.785
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1398.25
max = mean + 0.75 σ = 1426.062
Moon angle =4.44°
Moon phase =90.18%
Azimuth =141.09°
Elevation =85.43°
Hour Angle =-00:12:59.78°
Wind speed =7.08 km/hr = 4.4 miles/hr
Wind Direction =225.0° E of N
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2500
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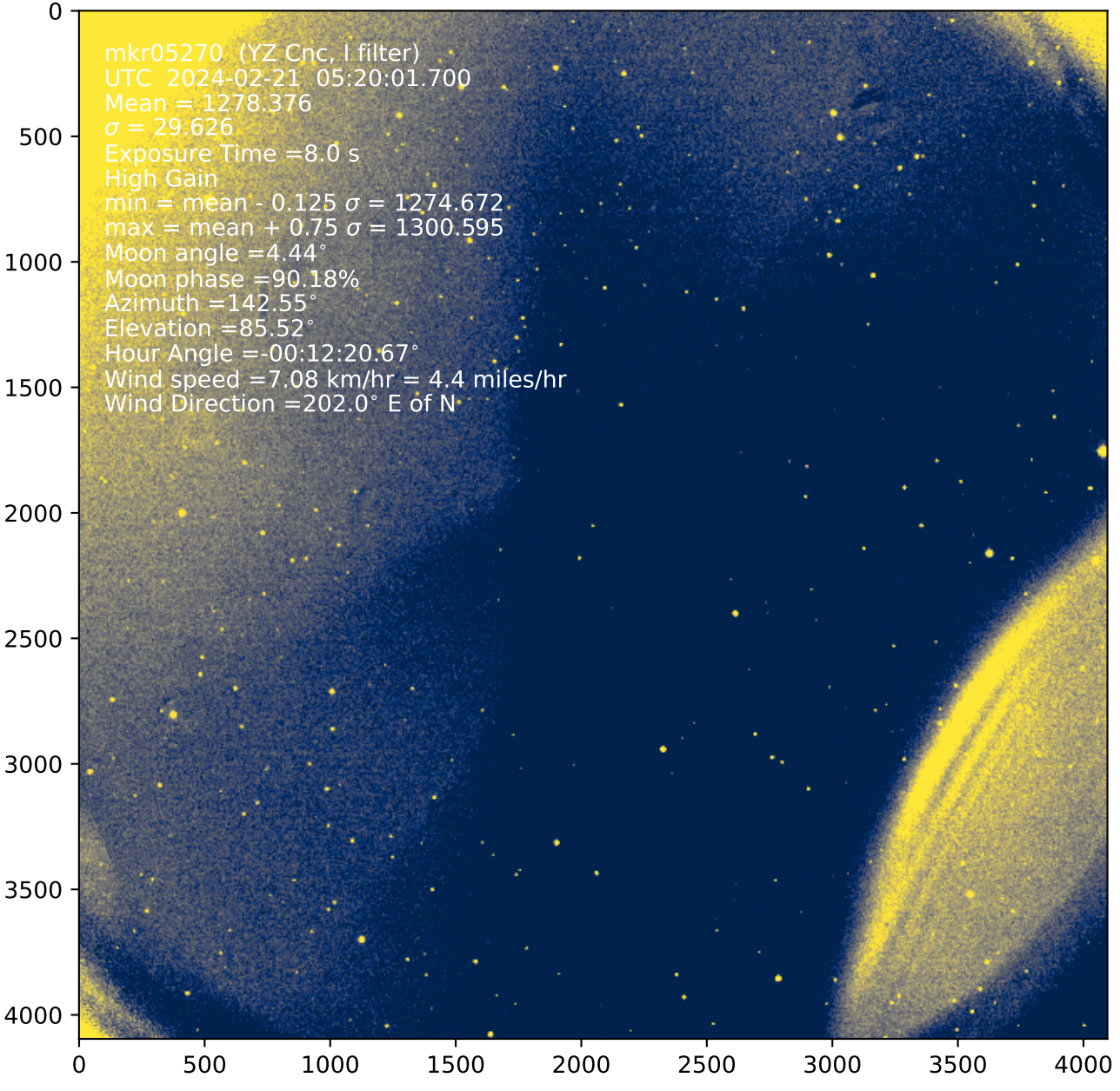
3500
4000


mkr05270 (YZ Cnc, I filter)
UTC 2024-02-21 05:20:01.700
Mean = 1278.376
σ = 29.626
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1274.672
max = mean + 0.75 σ = 1300.595
Moon angle =4.44°
Moon phase =90.18%
Azimuth =142.55°
Elevation =85.52°
Hour Angle =-00:12:20.67°
Wind speed =7.08 km/hr = 4.4 miles/hr
Wind Direction =202.0° E of N
0
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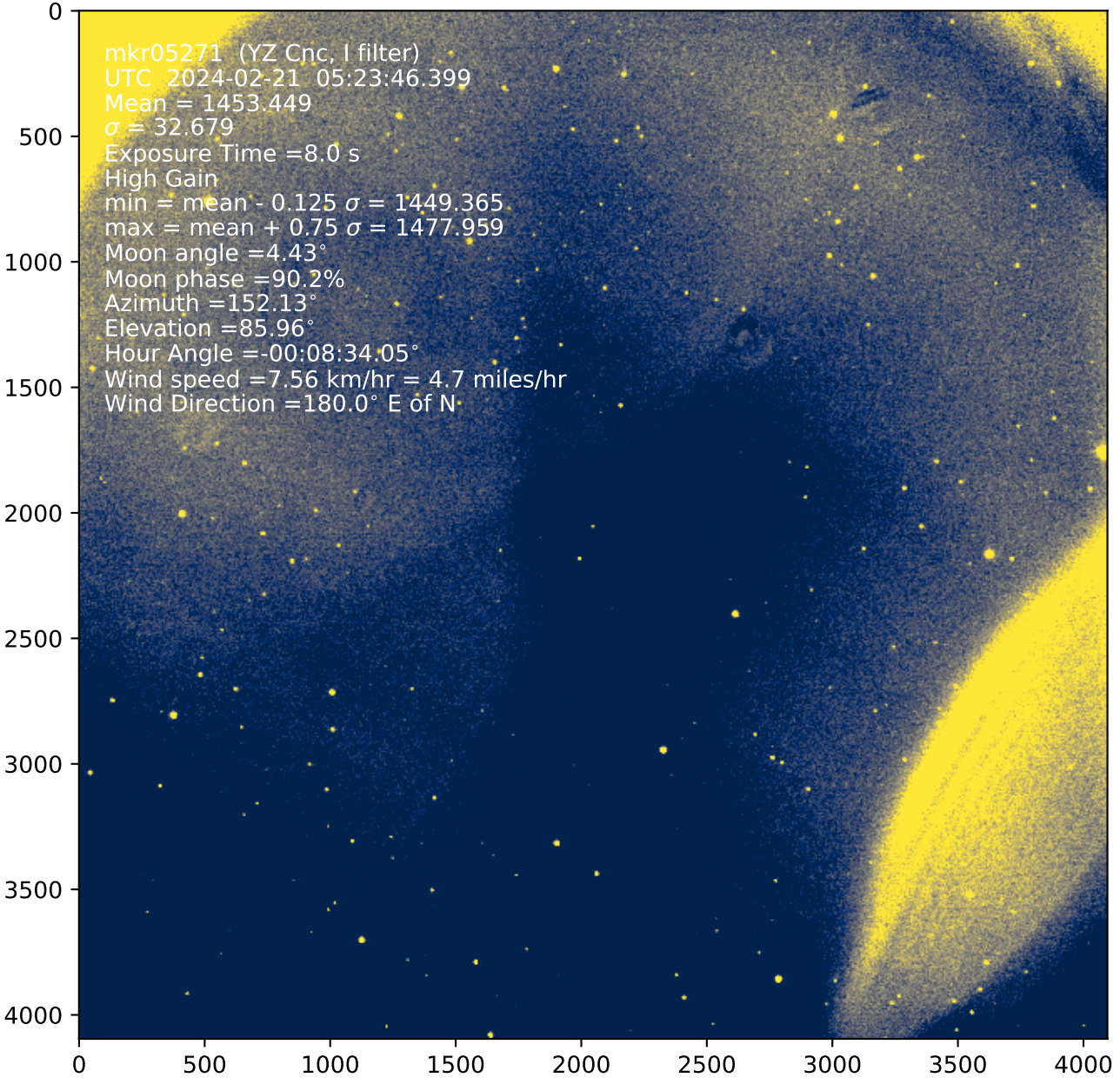
mkr05271 (YZ Cnc, I filter)
UTC 2024-02-21 05:23:46.399
Mean = 1453.449
σ = 32.679
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1449.365
max = mean + 0.75 σ = 1477.959
Moon angle =4.43°
Moon phase =90.2%
Azimuth =152.13°
Elevation =85.96°
Hour Angle =-00:08:34.05°
Wind speed =7.56 km/hr = 4.7 miles/hr
Wind Direction =180.0° E of N
0
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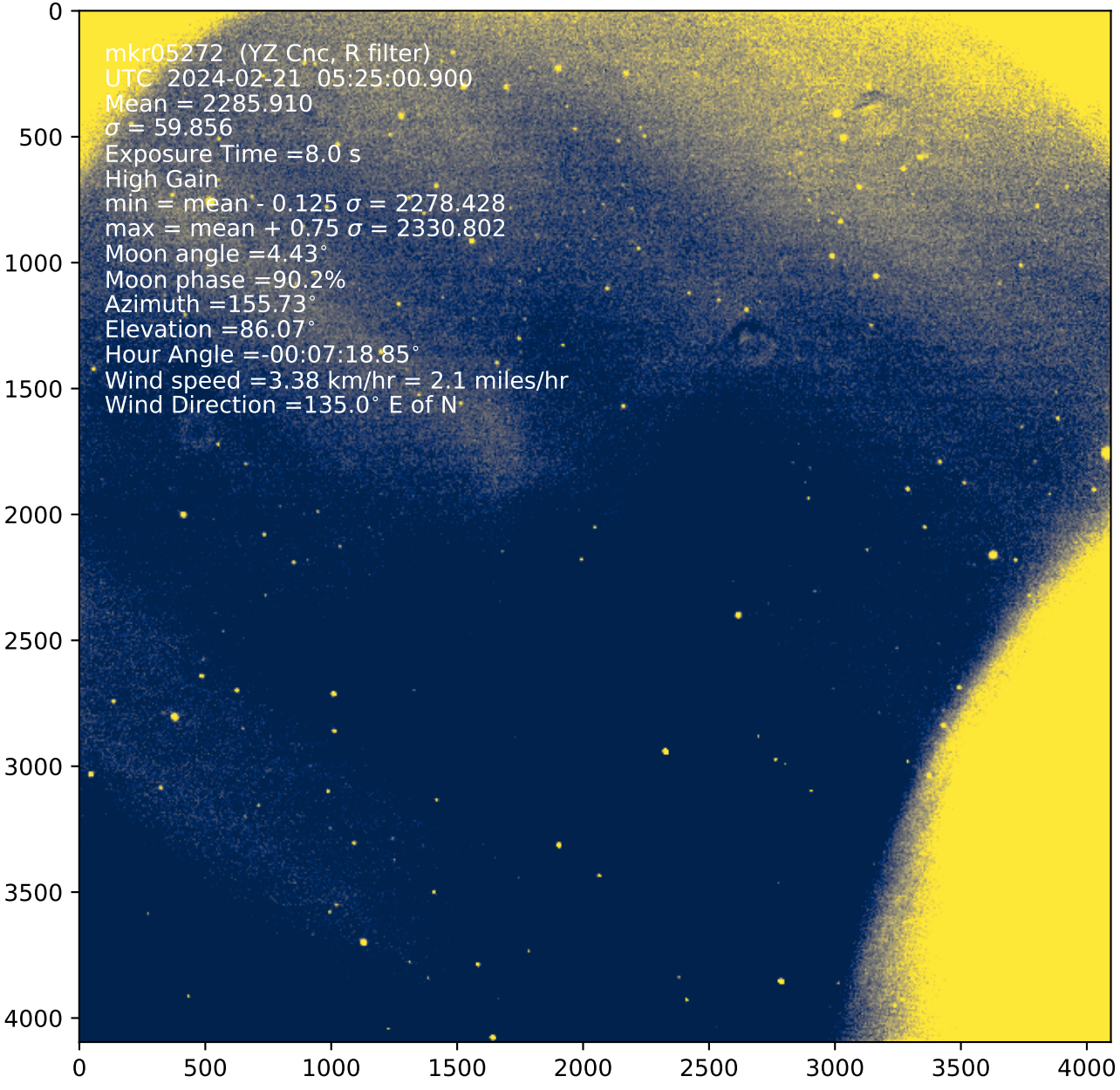
mkr05272 (YZ Cnc, R filter)
UTC 2024-02-21 05:25:00.900
Mean = 2285.910
σ = 59.856
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2278.428
max = mean + 0.75 σ = 2330.802
Moon angle =4.43°
Moon phase =90.2%
Azimuth =155.73°
Elevation =86.07°
Hour Angle =-00:07:18.85°
Wind speed =3.38 km/hr = 2.1 miles/hr
Wind Direction =135.0° E of N
0
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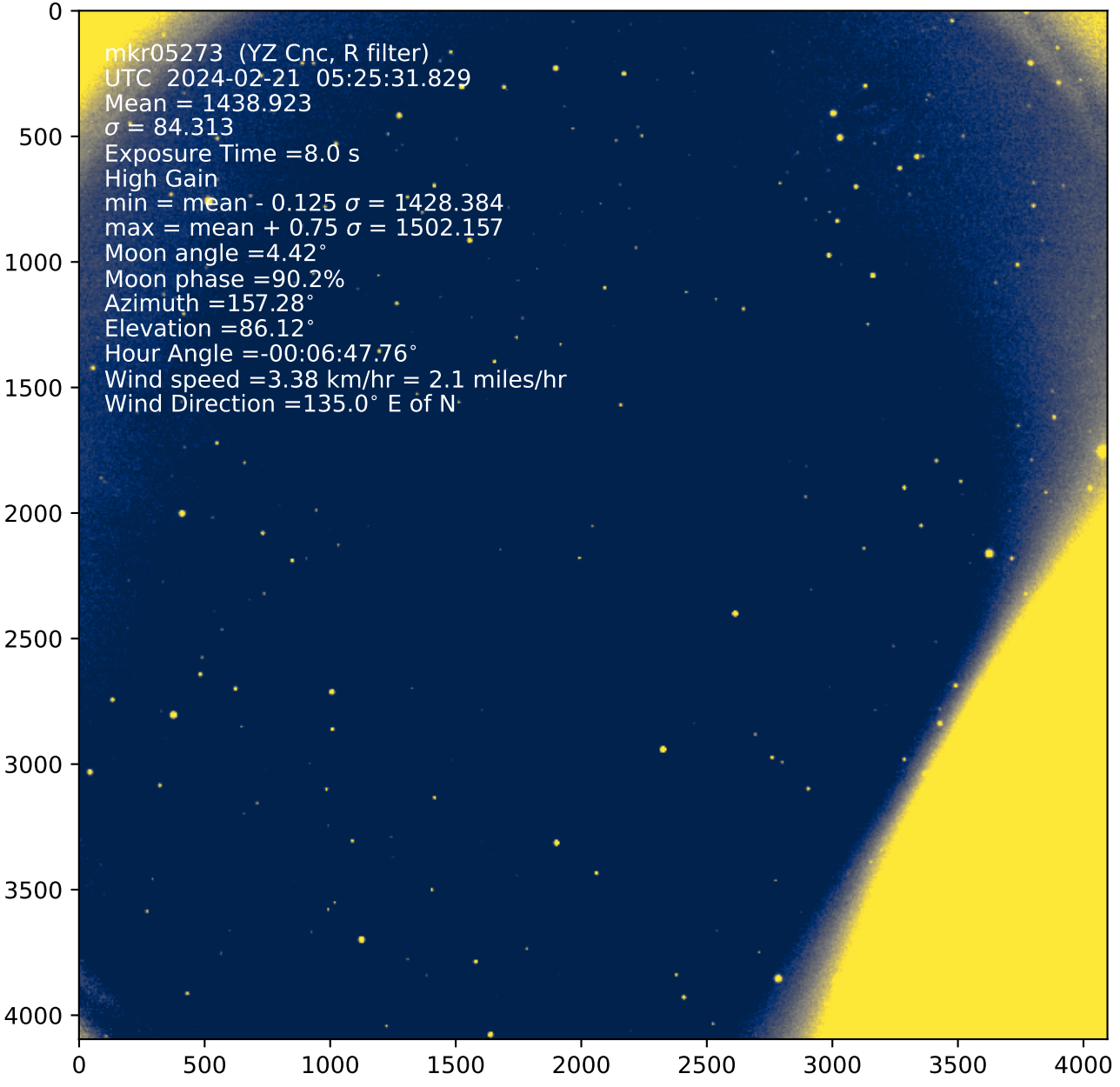
mkr05273 (YZ Cnc, R filter)
UTC 2024-02-21 05:25:31.829
Mean = 1438.923
σ = 84.313
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1428.384
max = mean + 0.75 σ = 1502.157
Moon angle =4.42°
Moon phase =90.2%
Azimuth =157.28°
Elevation =86.12°
Hour Angle =-00:06:47.76°
Wind speed =3.38 km/hr = 2.1 miles/hr
Wind Direction =135.0° E of N
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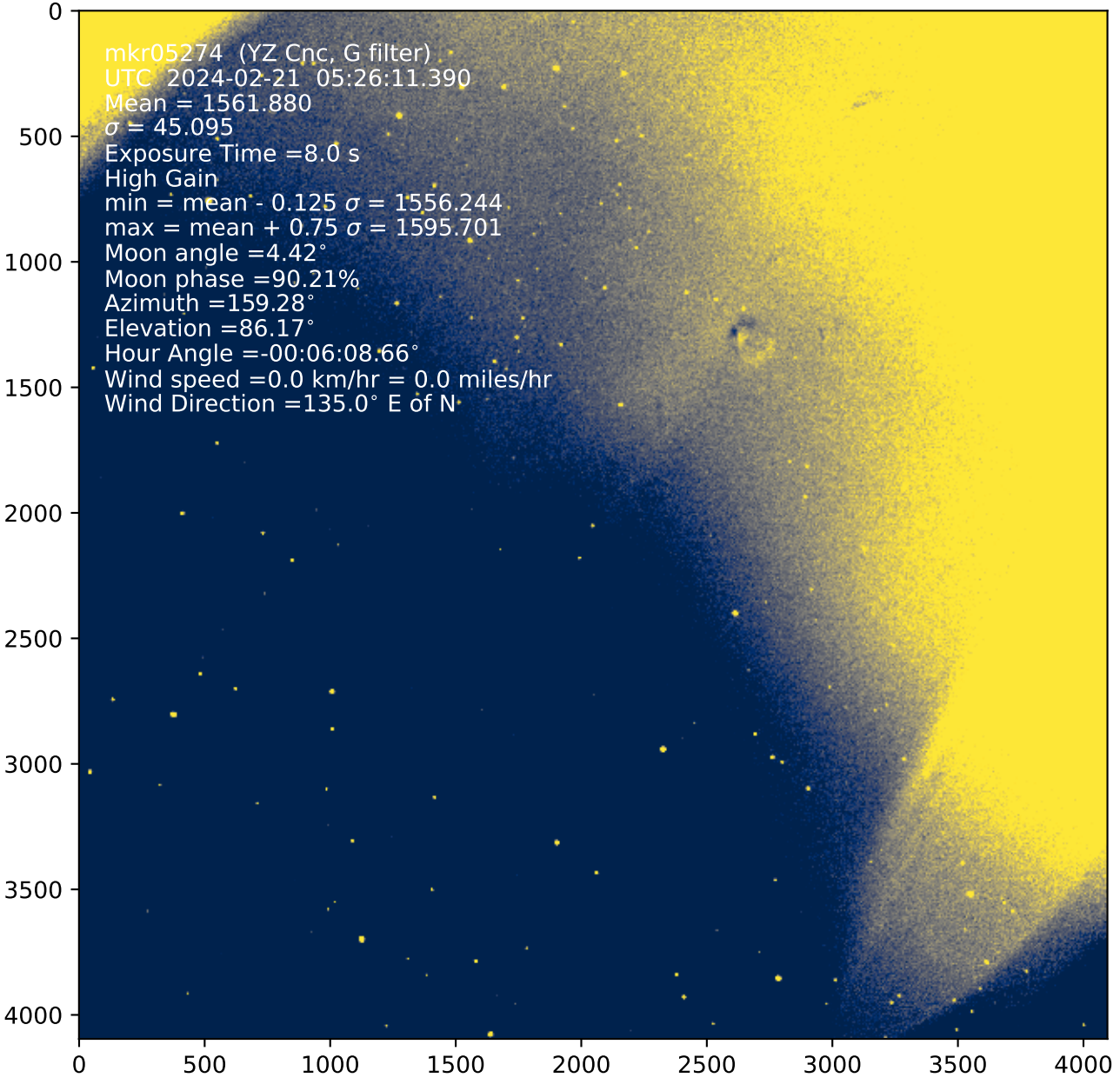
mkr05274 (YZ Cnc, G filter)
UTC 2024-02-21 05:26:11.390
Mean = 1561.880
σ = 45.095
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1556.244
max = mean + 0.75 σ = 1595.701
Moon angle =4.42°
Moon phase =90.21%
Azimuth =159.28°
Elevation =86.17°
Hour Angle =-00:06:08.66°
Wind speed =0.0 km/hr = 0.0 miles/hr
Wind Direction =135.0° E of N
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3500
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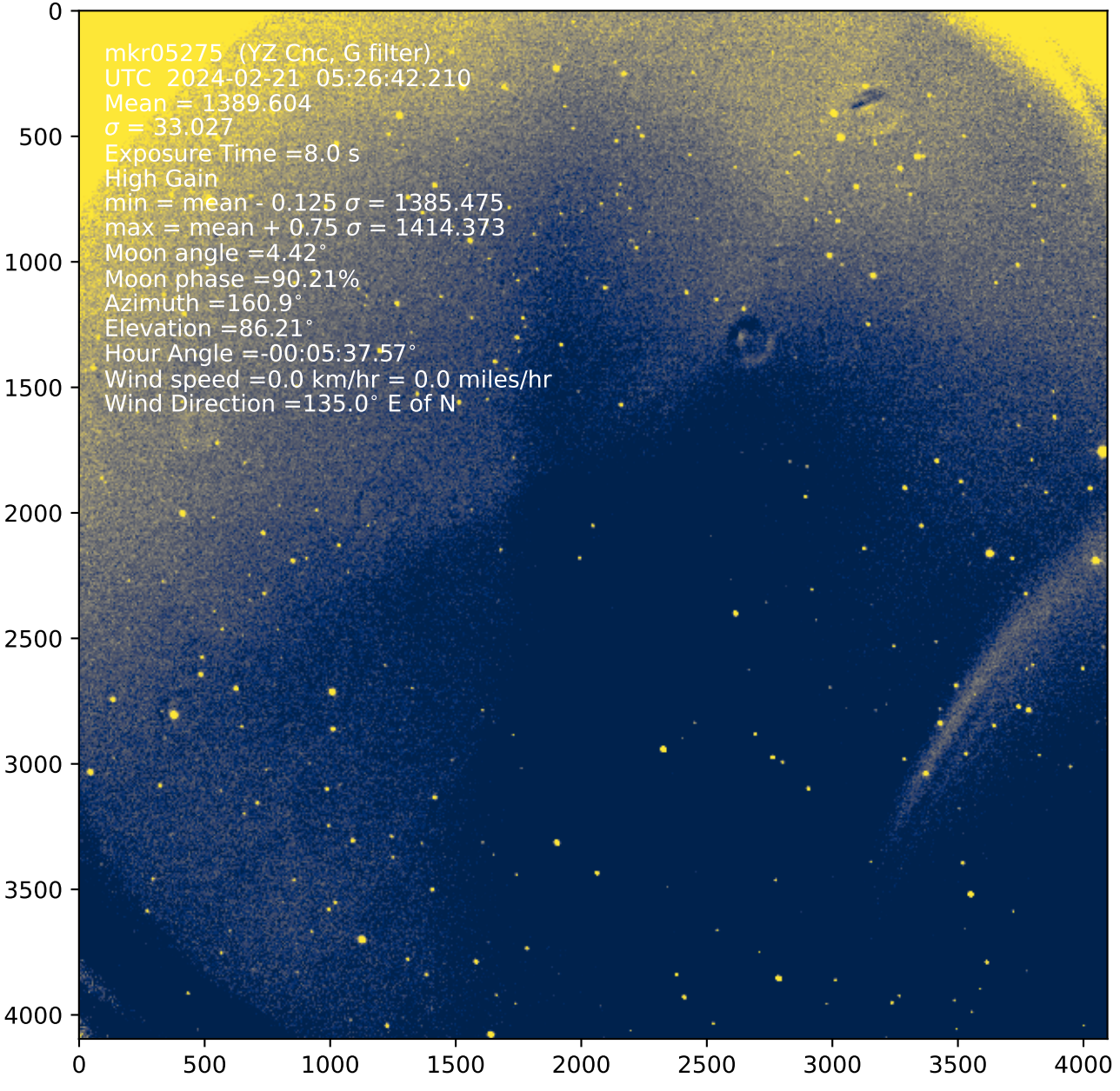
mkr05275 (YZ Cnc, G filter)
UTC 2024-02-21 05:26:42.210
Mean = 1389.604
σ = 33.027
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1385.475
max = mean + 0.75 σ = 1414.373
Moon angle =4.42°
Moon phase =90.21%
Azimuth =160.9°
Elevation =86.21°
Hour Angle =-00:05:37.57°
Wind speed =0.0 km/hr = 0.0 miles/hr
Wind Direction =135.0° E of N
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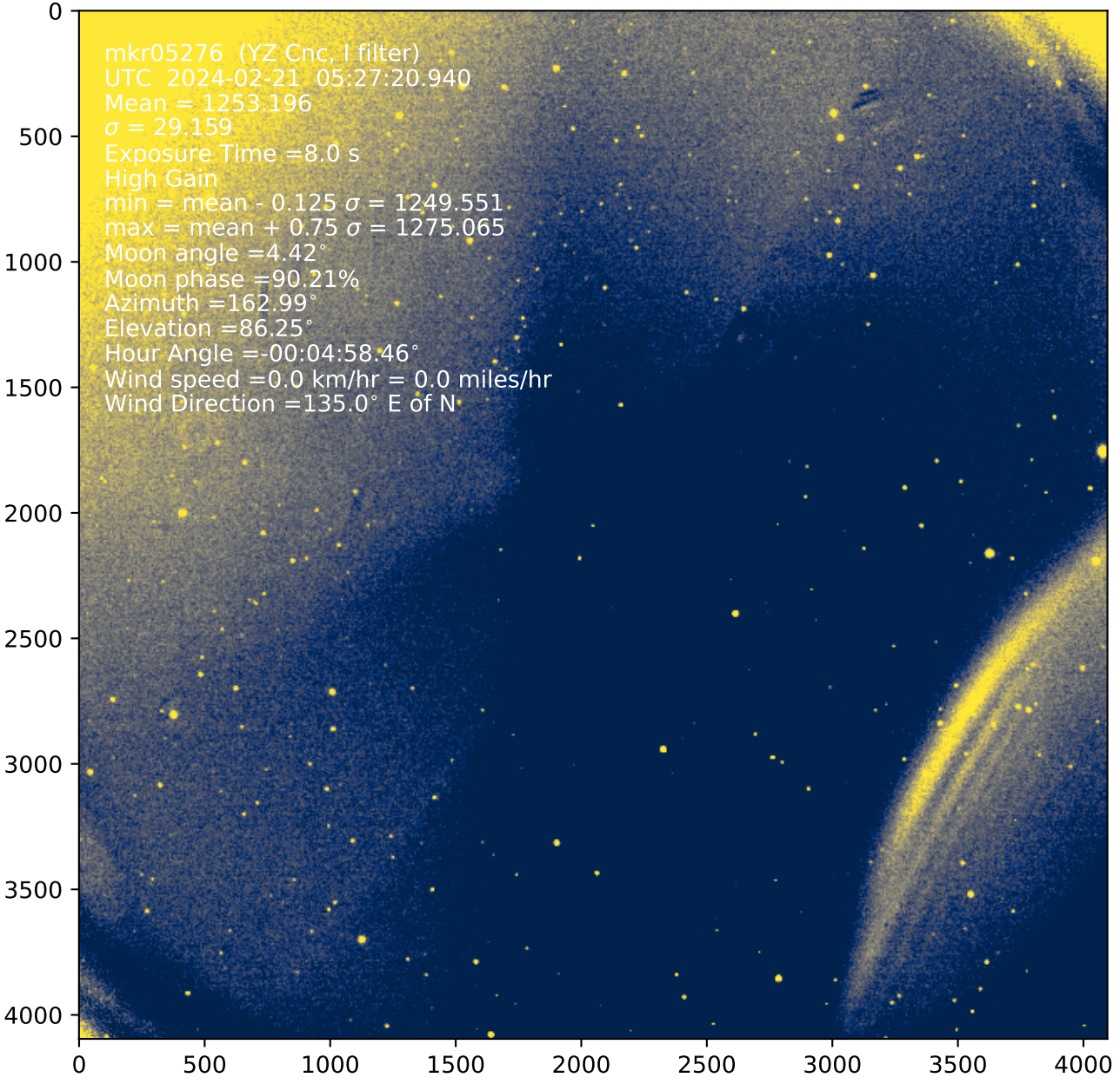
3500
4000


mkr05276 (YZ Cnc, I filter)
UTC 2024-02-21 05:27:20.940
Mean = 1253.196
σ = 29.159
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1249.551
max = mean + 0.75 σ = 1275.065
Moon angle =4.42°
Moon phase =90.21%
Azimuth =162.99°
Elevation =86.25°
Hour Angle =-00:04:58.46°
Wind speed =0.0 km/hr = 0.0 miles/hr
Wind Direction =135.0° E of N
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3000
3500
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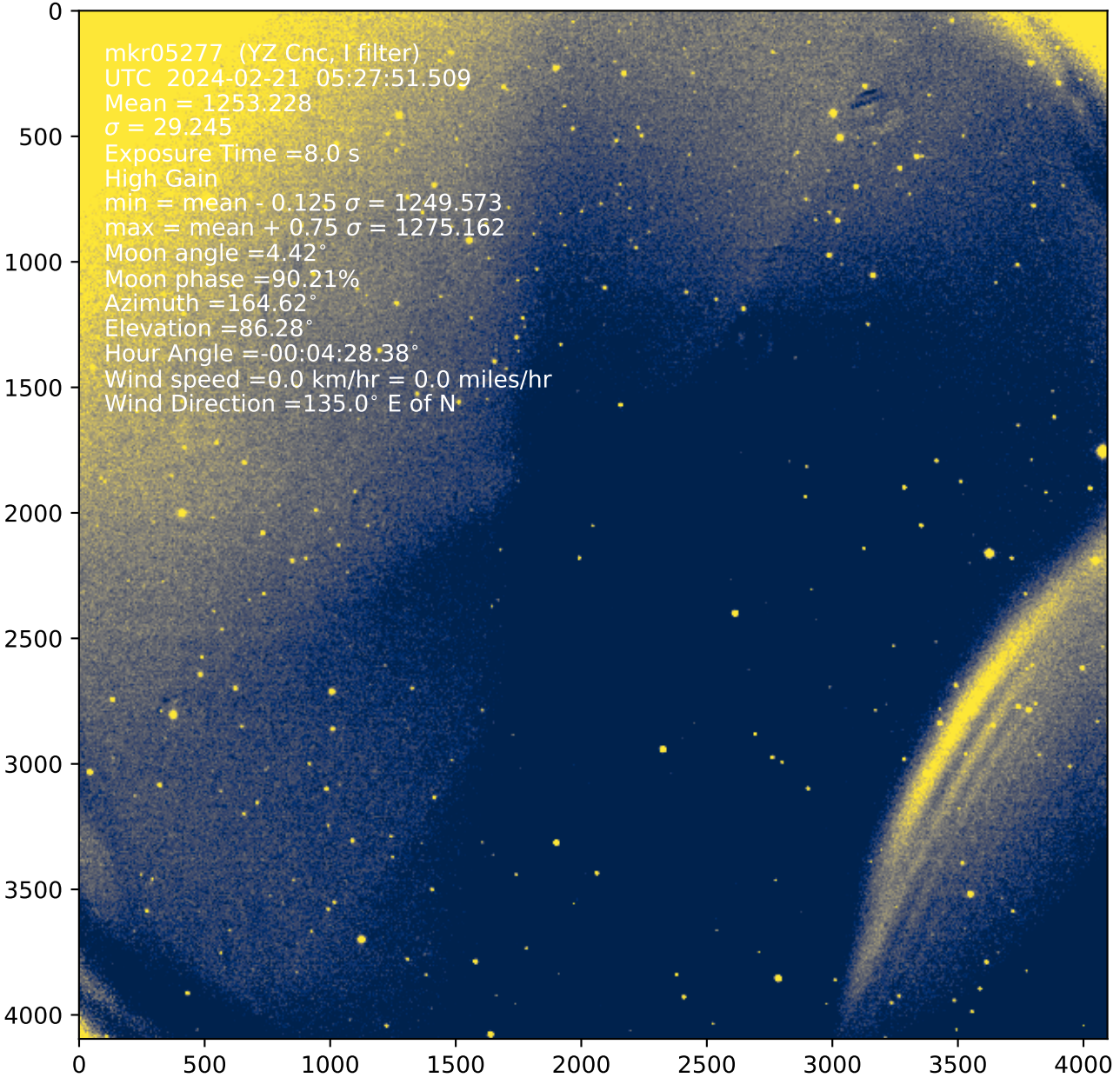
mkr05277 (YZ Cnc, I filter)
UTC 2024-02-21 05:27:51.509
Mean = 1253.228
σ = 29.245
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1249.573
max = mean + 0.75 σ = 1275.162
Moon angle =4.42°
Moon phase =90.21%
Azimuth =164.62°
Elevation =86.28°
Hour Angle =-00:04:28.38°
Wind speed =0.0 km/hr = 0.0 miles/hr
Wind Direction =135.0° E of N
0
500
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1500
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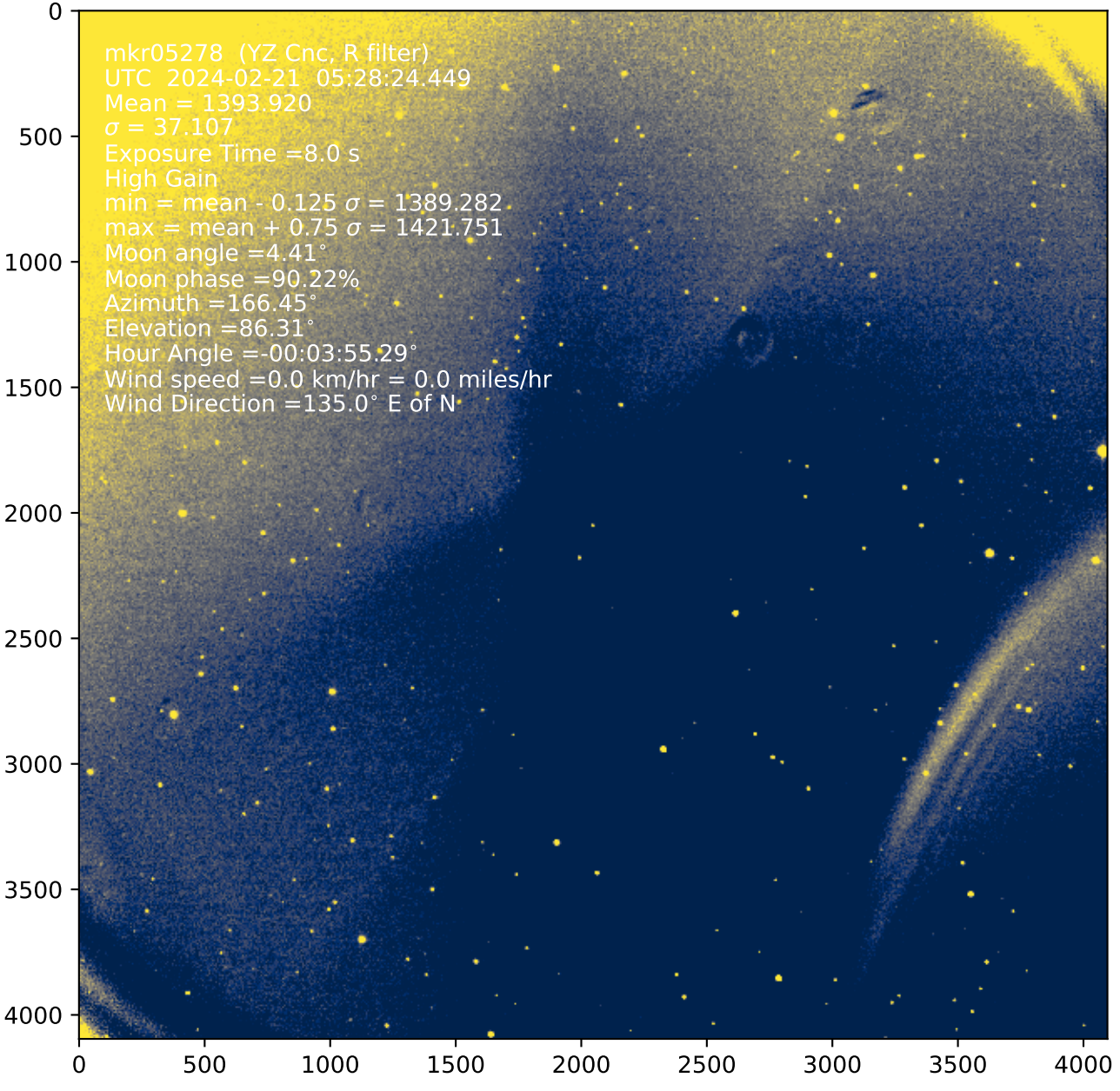
2500
3000
3500
4000


mkr05278 (YZ Cnc, R filter)
UTC 2024-02-21 05:28:24.449
Mean = 1393.920
σ = 37.107
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1389.282
max = mean + 0.75 σ = 1421.751
Moon angle =4.41°
Moon phase =90.22%
Azimuth =166.45°
Elevation =86.31°
Hour Angle =-00:03:55.29°
Wind speed =0.0 km/hr = 0.0 miles/hr
Wind Direction =135.0° E of N
0
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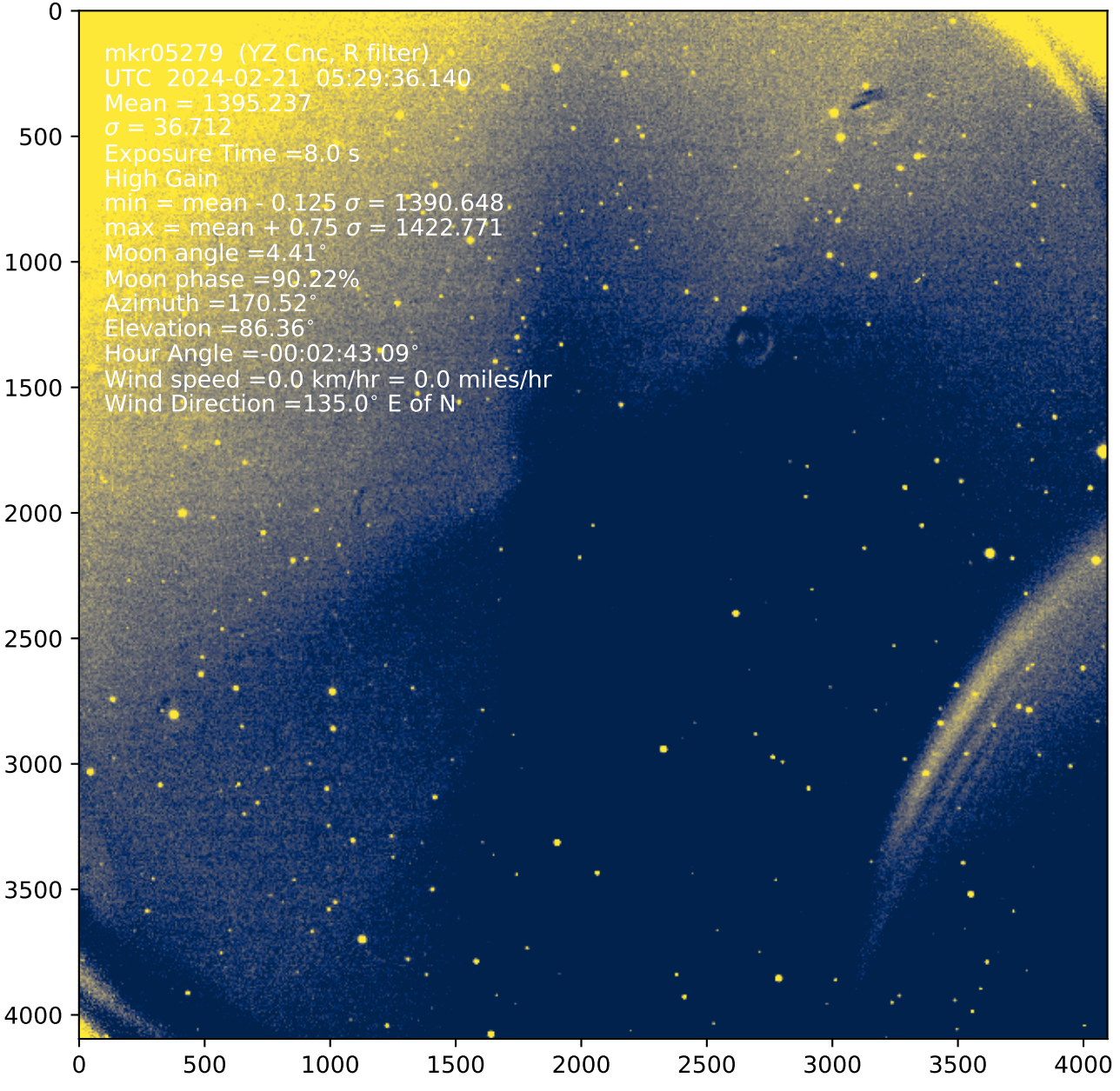
mkr05279 (YZ Cnc, R filter)
UTC 2024-02-21 05:29:36.140
Mean = 1395.237
σ = 36.712
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1390.648
max = mean + 0.75 σ = 1422.771
Moon angle =4.41°
Moon phase =90.22%
Azimuth =170.52°
Elevation =86.36°
Hour Angle =-00:02:43.09°
Wind speed =0.0 km/hr = 0.0 miles/hr
Wind Direction =135.0° E of N
0
500
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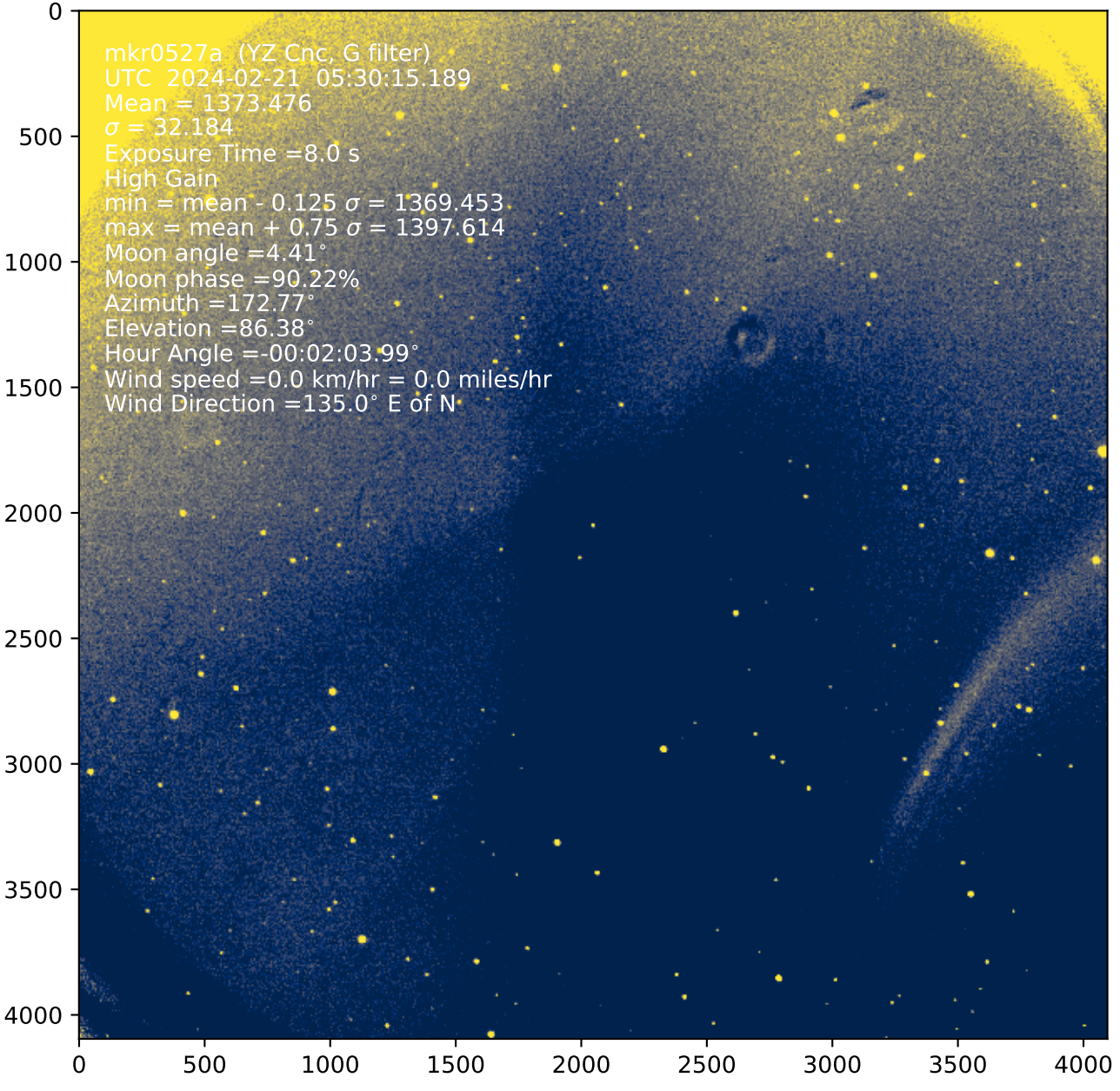
2500
3000
3500
4000


mkr0527a (YZ Cnc, G filter)
UTC 2024-02-21 05:30:15.189
Mean = 1373.476
σ = 32.184
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1369.453
max = mean + 0.75 σ = 1397.614
Moon angle =4.41°
Moon phase =90.22%
Azimuth =172.77°
Elevation =86.38°
Hour Angle =-00:02:03.99°
Wind speed =0.0 km/hr = 0.0 miles/hr
Wind Direction =135.0° E of N
0
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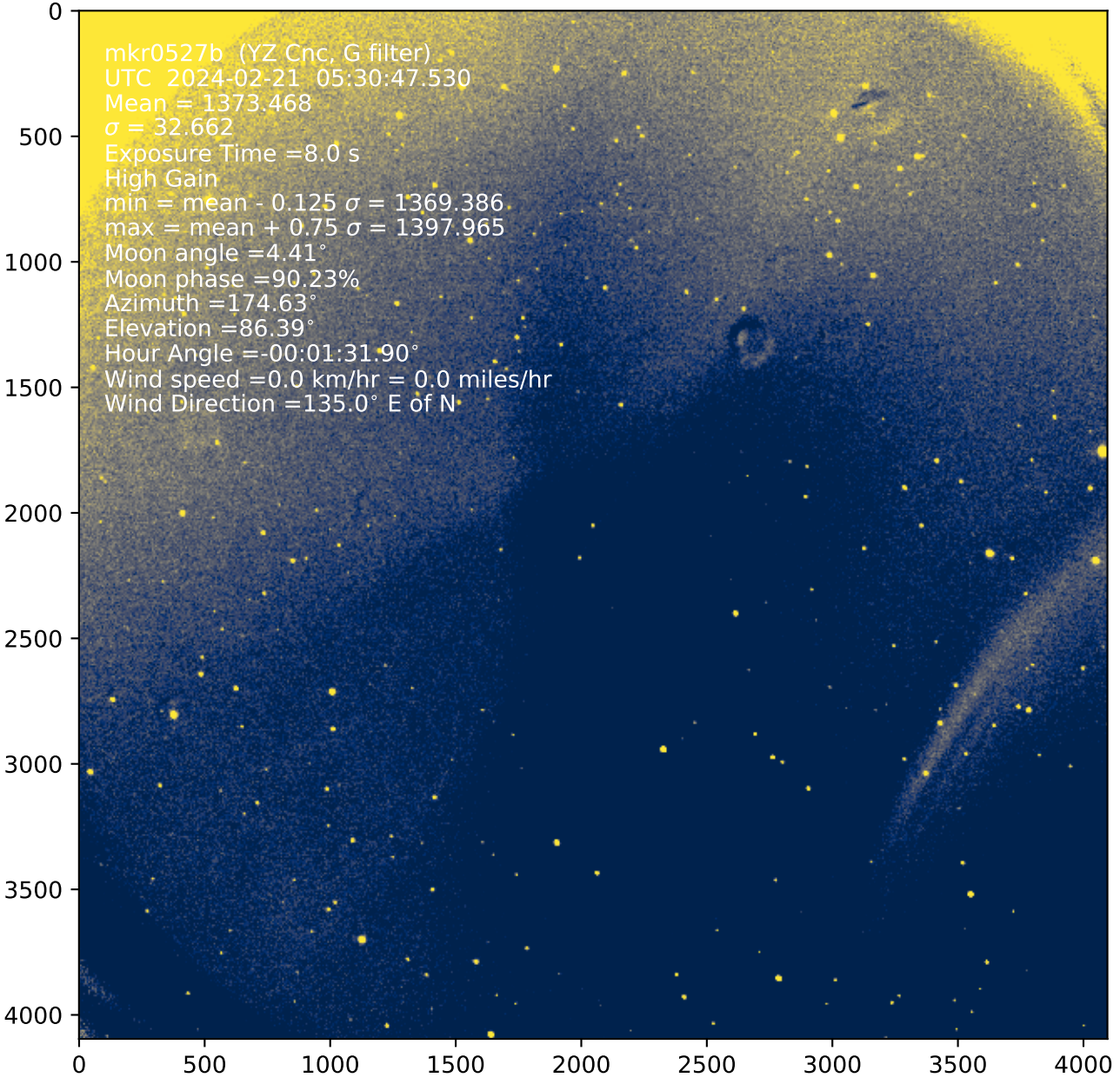
3500
4000


mkr0527b (YZ Cnc, G filter)
UTC 2024-02-21 05:30:47.530
Mean = 1373.468
σ = 32.662
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1369.386
max = mean + 0.75 σ = 1397.965
Moon angle =4.41°
Moon phase =90.23%
Azimuth =174.63°
Elevation =86.39°
Hour Angle =-00:01:31.90°
Wind speed =0.0 km/hr = 0.0 miles/hr
Wind Direction =135.0° E of N
0
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3500
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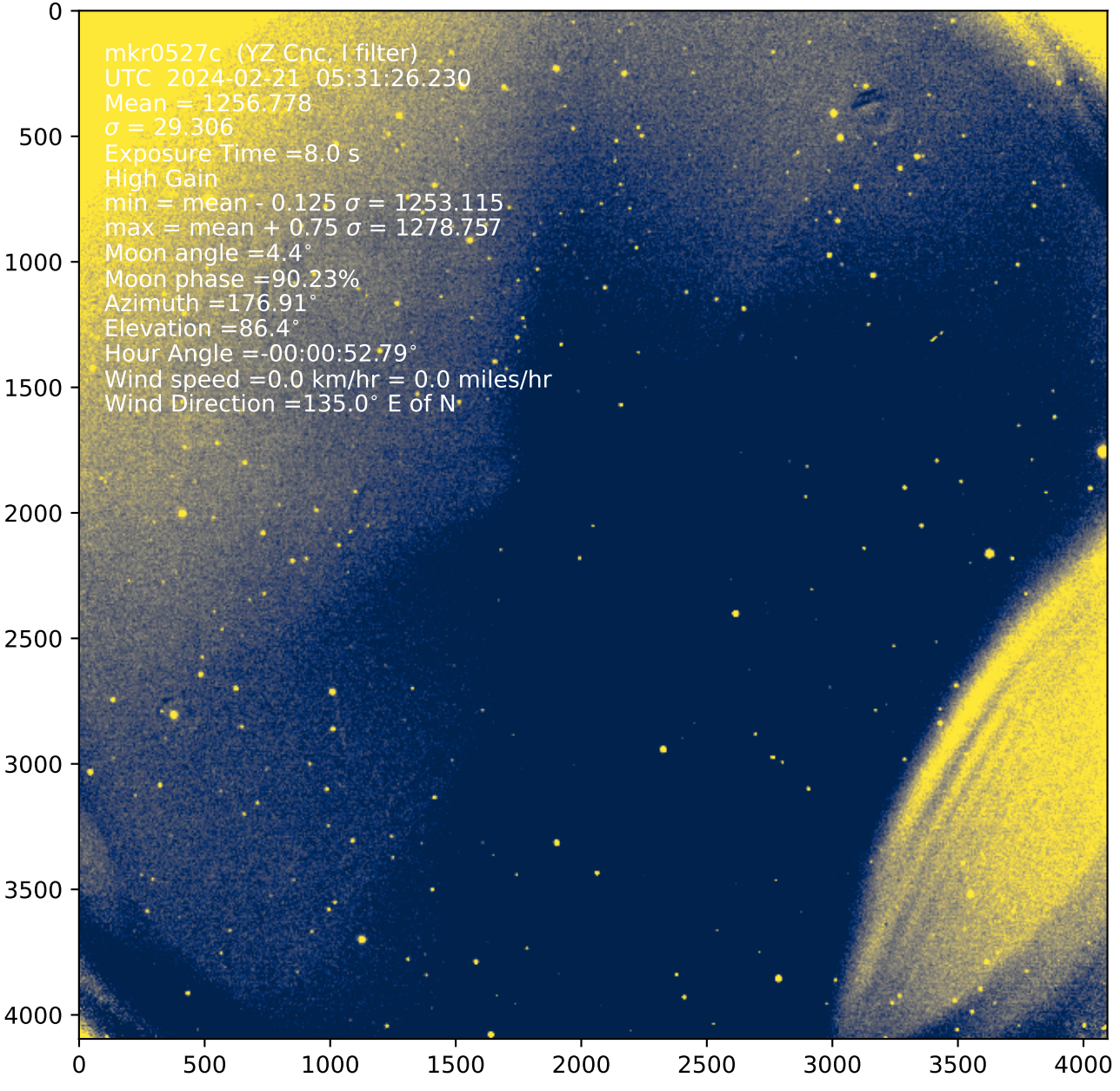
mkr0527c (YZ Cnc, I filter)
UTC 2024-02-21 05:31:26.230
Mean = 1256.778
σ = 29.306
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1253.115
max = mean + 0.75 σ = 1278.757
Moon angle =4.4°
Moon phase =90.23%
Azimuth =176.91°
Elevation =86.4°
Hour Angle =-00:00:52.79°
Wind speed =0.0 km/hr = 0.0 miles/hr
Wind Direction =135.0° E of N
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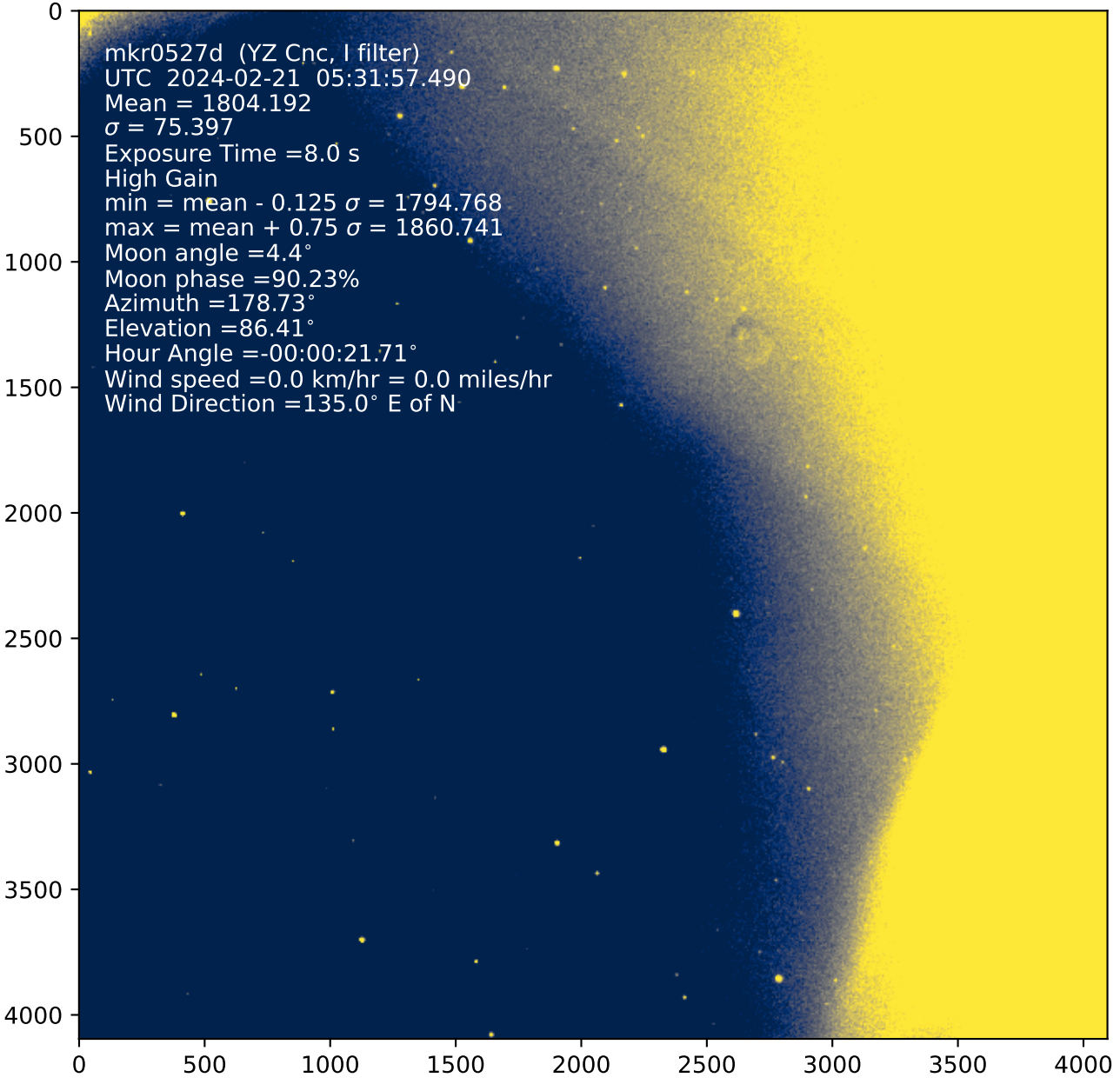
mkr0527d (YZ Cnc, I filter)
UTC 2024-02-21 05:31:57.490
Mean = 1804.192
σ = 75.397
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1794.768
max = mean + 0.75 σ = 1860.741
Moon angle =4.4°
Moon phase =90.23%
Azimuth =178.73°
Elevation =86.41°
Hour Angle =-00:00:21.71°
Wind speed =0.0 km/hr = 0.0 miles/hr
Wind Direction =135.0° E of N
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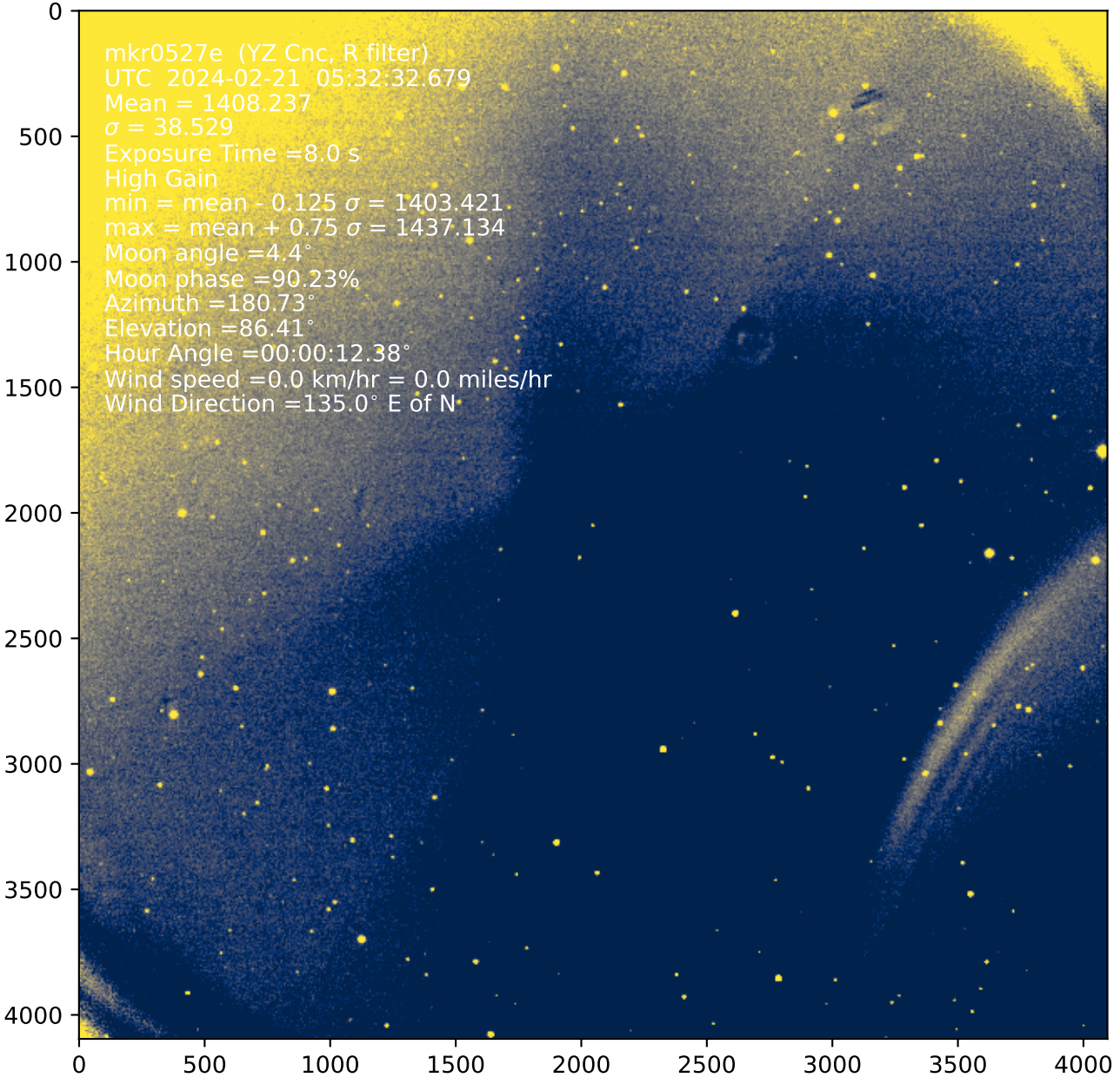
2500
3000
3500
4000


mkr0527e (YZ Cnc, R filter)
UTC 2024-02-21 05:32:32.679
Mean = 1408.237
σ = 38.529
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1403.421
max = mean + 0.75 σ = 1437.134
Moon angle =4.4°
Moon phase =90.23%
Azimuth =180.73°
Elevation =86.41°
Hour Angle =00:00:12.38°
Wind speed =0.0 km/hr = 0.0 miles/hr
Wind Direction =135.0° E of N
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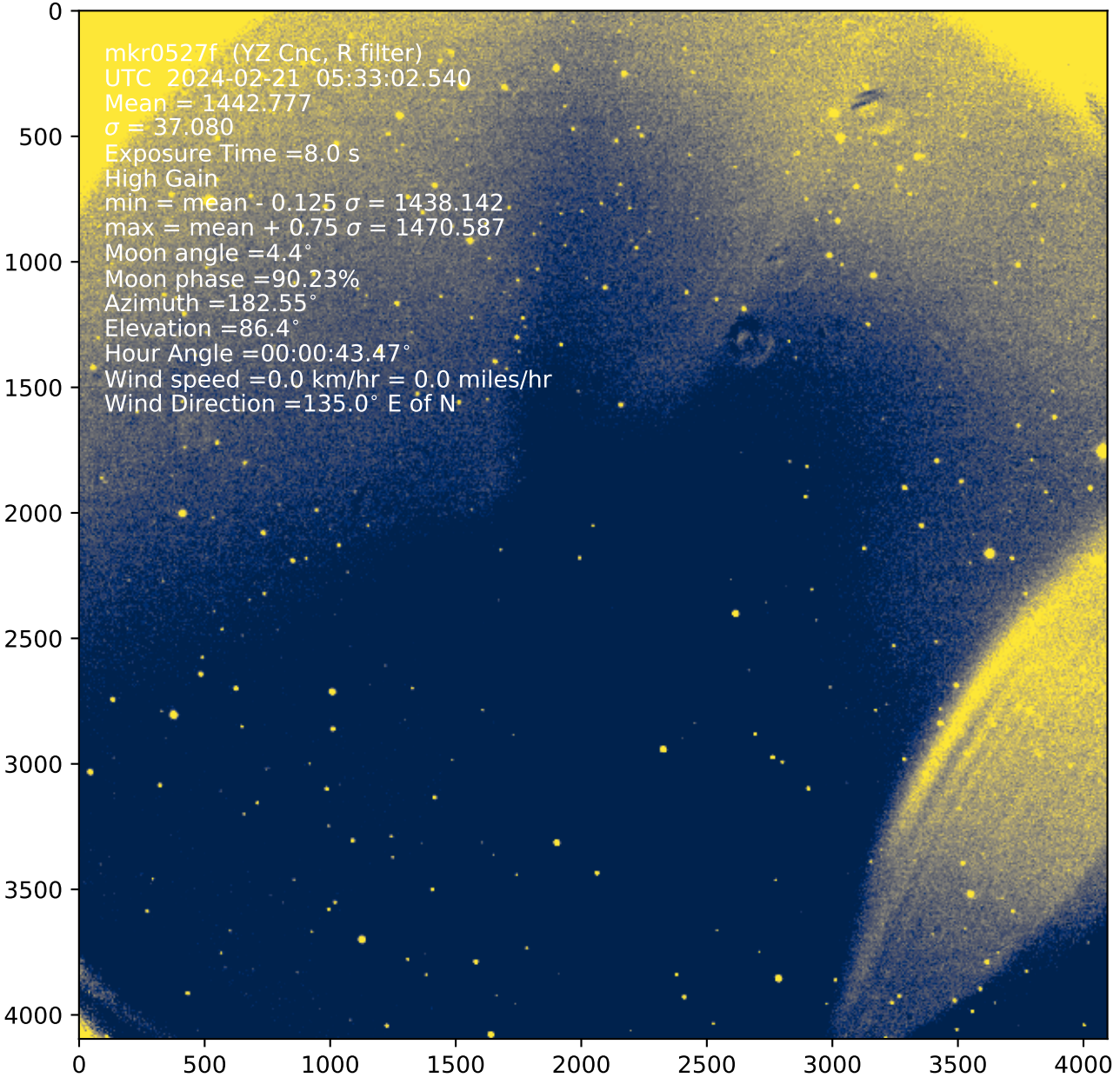
2500
3000
3500
4000


mkr0527f (YZ Cnc, R filter)
UTC 2024-02-21 05:33:02.540
Mean = 1442.777
σ = 37.080
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1438.142
max = mean + 0.75 σ = 1470.587
Moon angle =4.4°
Moon phase =90.23%
Azimuth =182.55°
Elevation =86.4°
Hour Angle =00:00:43.47°
Wind speed =0.0 km/hr = 0.0 miles/hr
Wind Direction =135.0° E of N
0
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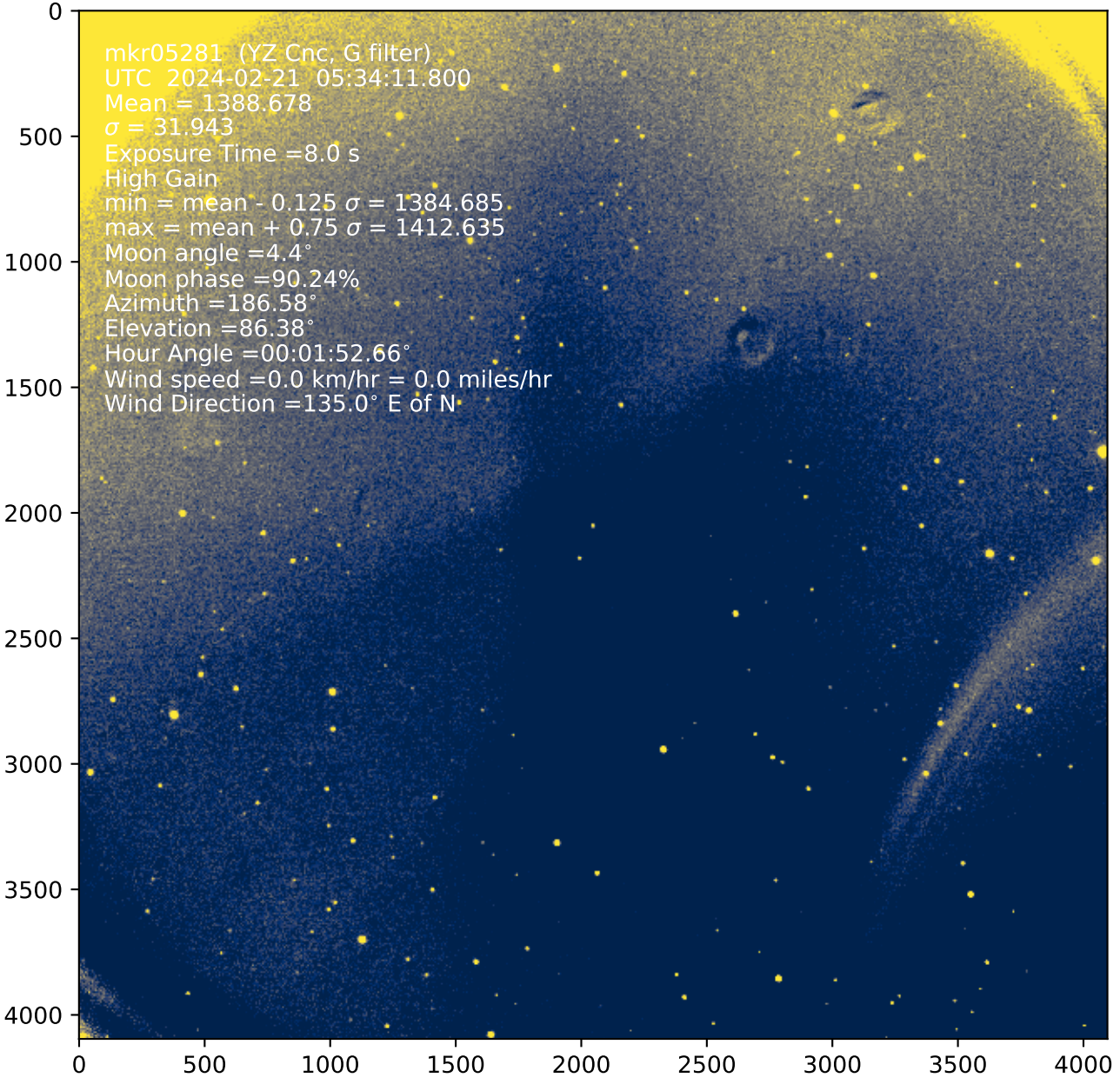
2000
2500
3000
3500
4000


mkr05281 (YZ Cnc, G filter)
UTC 2024-02-21 05:34:11.800
Mean = 1388.678
σ = 31.943
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1384.685
max = mean + 0.75 σ = 1412.635
Moon angle =4.4°
Moon phase =90.24%
Azimuth =186.58°
Elevation =86.38°
Hour Angle =00:01:52.66°
Wind speed =0.0 km/hr = 0.0 miles/hr
Wind Direction =135.0° E of N
0
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2500
3000
3500
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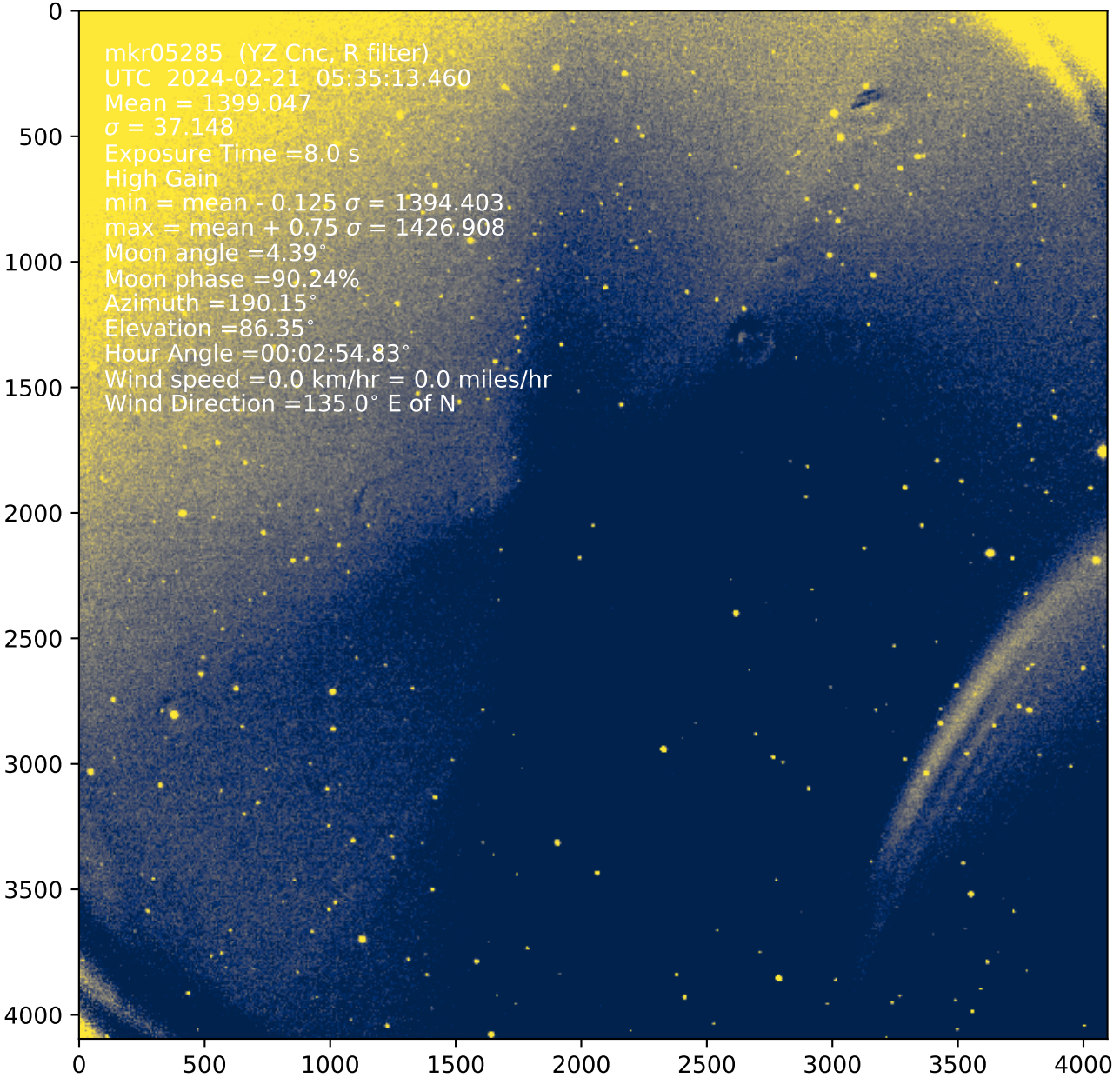
mkr05285 (YZ Cnc, R filter)
UTC 2024-02-21 05:35:13.460
Mean = 1399.047
σ = 37.148
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1394.403
max = mean + 0.75 σ = 1426.908
Moon angle =4.39°
Moon phase =90.24%
Azimuth =190.15°
Elevation =86.35°
Hour Angle =00:02:54.83°
Wind speed =0.0 km/hr = 0.0 miles/hr
Wind Direction =135.0° E of N
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3500
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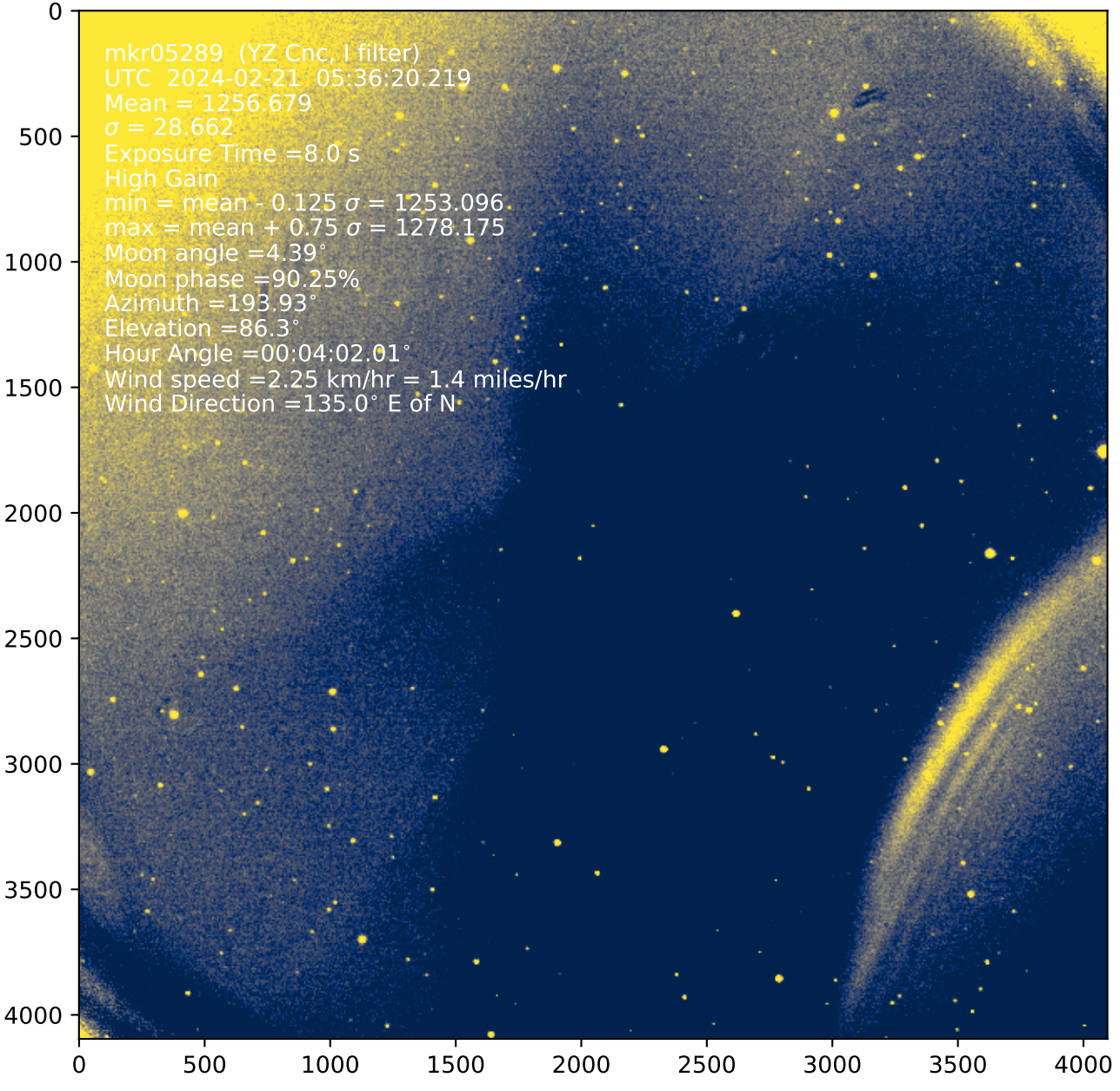
mkr05289 (YZ Cnc, I filter)
UTC 2024-02-21 05:36:20.219
Mean = 1256.679
σ = 28.662
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1253.096
max = mean + 0.75 σ = 1278.175
Moon angle =4.39°
Moon phase =90.25%
Azimuth =193.93°
Elevation =86.3°
Hour Angle =00:04:02.01°
Wind speed =2.25 km/hr = 1.4 miles/hr
Wind Direction =135.0° E of N
0
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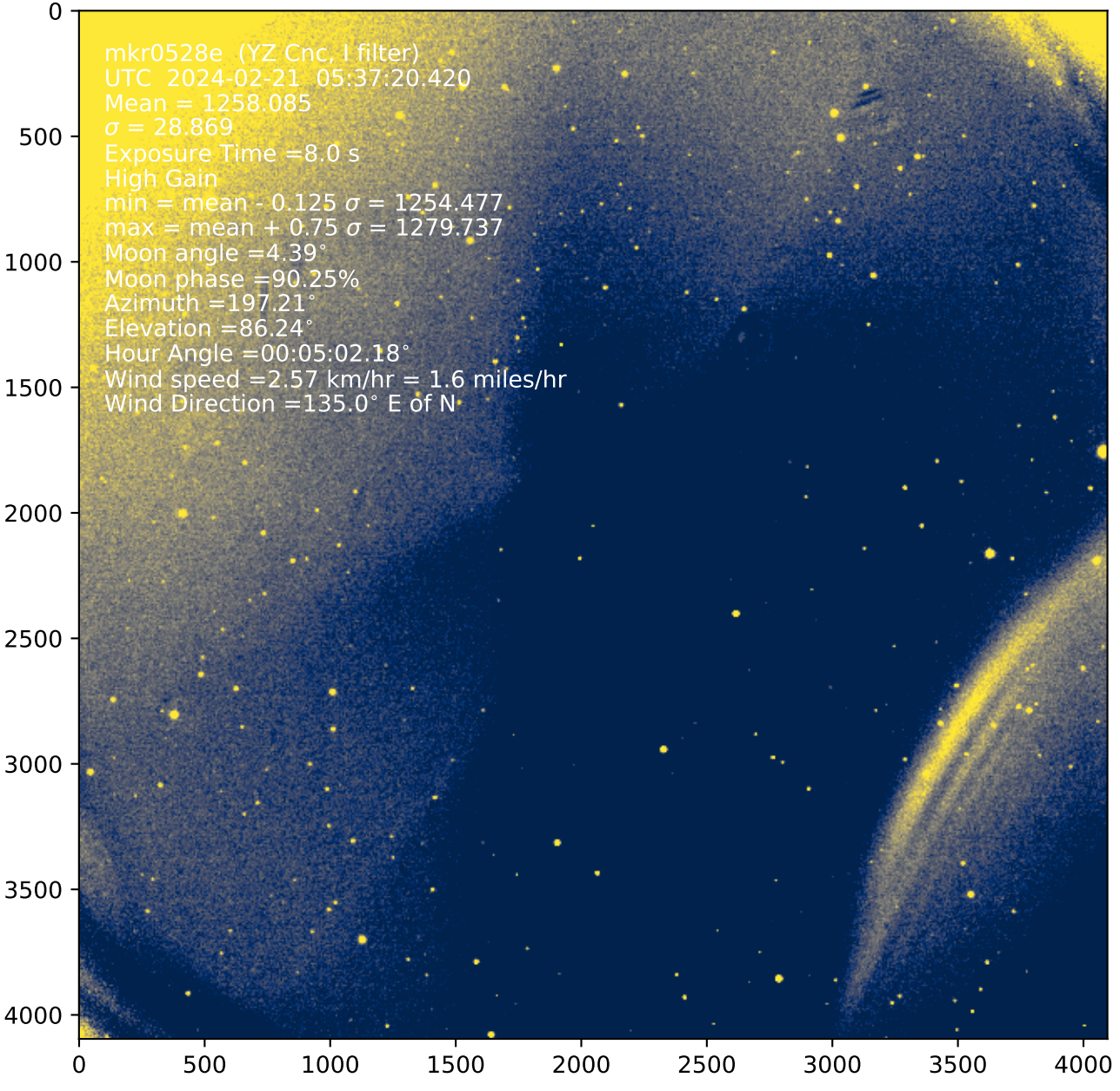
mkr0528e (YZ Cnc, I filter)
UTC 2024-02-21 05:37:20.420
Mean = 1258.085
σ = 28.869
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1254.477
max = mean + 0.75 σ = 1279.737
Moon angle =4.39°
Moon phase =90.25%
Azimuth =197.21°
Elevation =86.24°
Hour Angle =00:05:02.18°
Wind speed =2.57 km/hr = 1.6 miles/hr
Wind Direction =135.0° E of N
0
500
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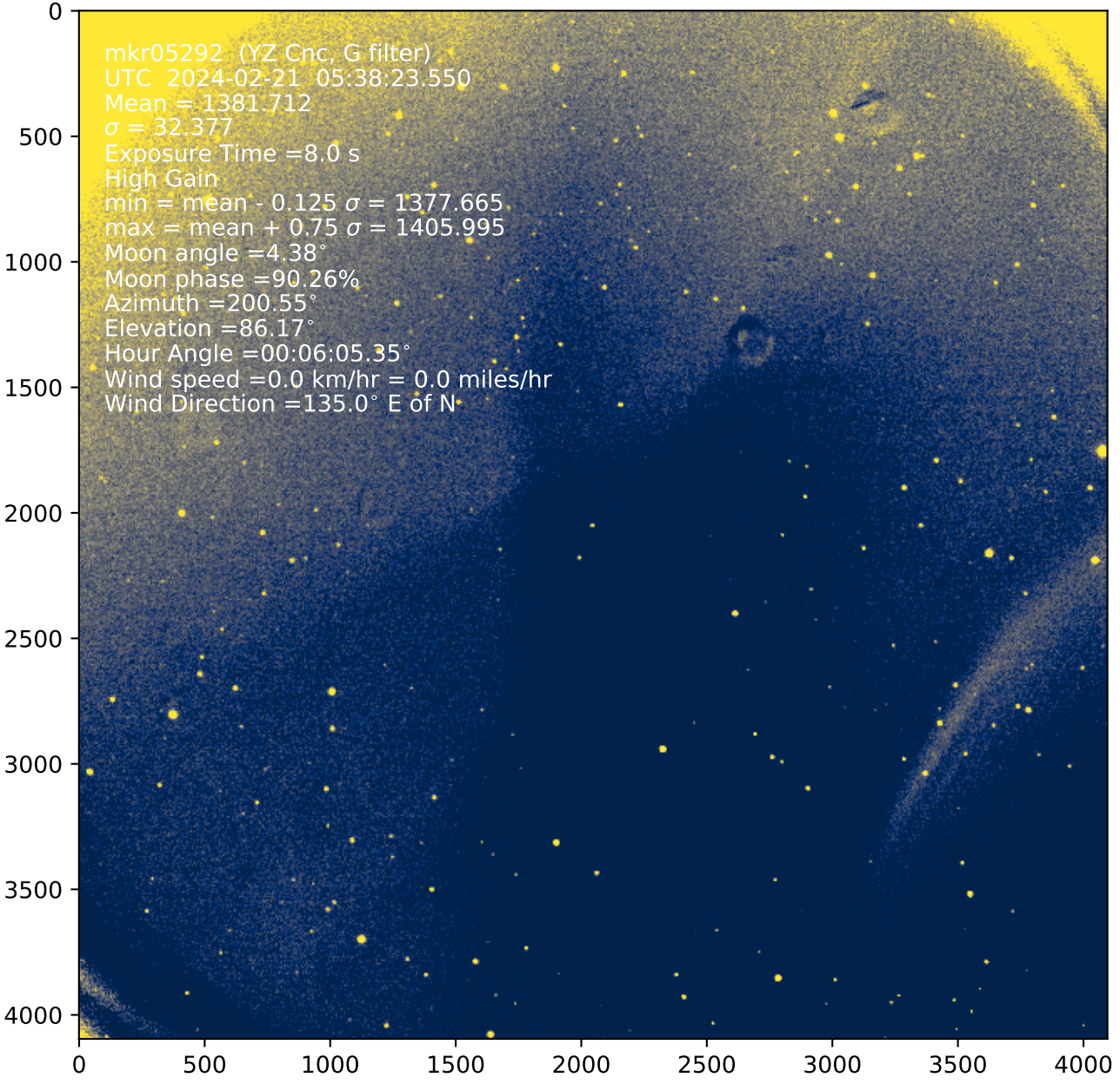
2500
3000
3500
4000


mkr05292 (YZ Cnc, G filter)
UTC 2024-02-21 05:38:23.550
Mean = 1381.712
σ = 32.377
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1377.665
max = mean + 0.75 σ = 1405.995
Moon angle =4.38°
Moon phase =90.26%
Azimuth =200.55°
Elevation =86.17°
Hour Angle =00:06:05.35°
Wind speed =0.0 km/hr = 0.0 miles/hr
Wind Direction =135.0° E of N
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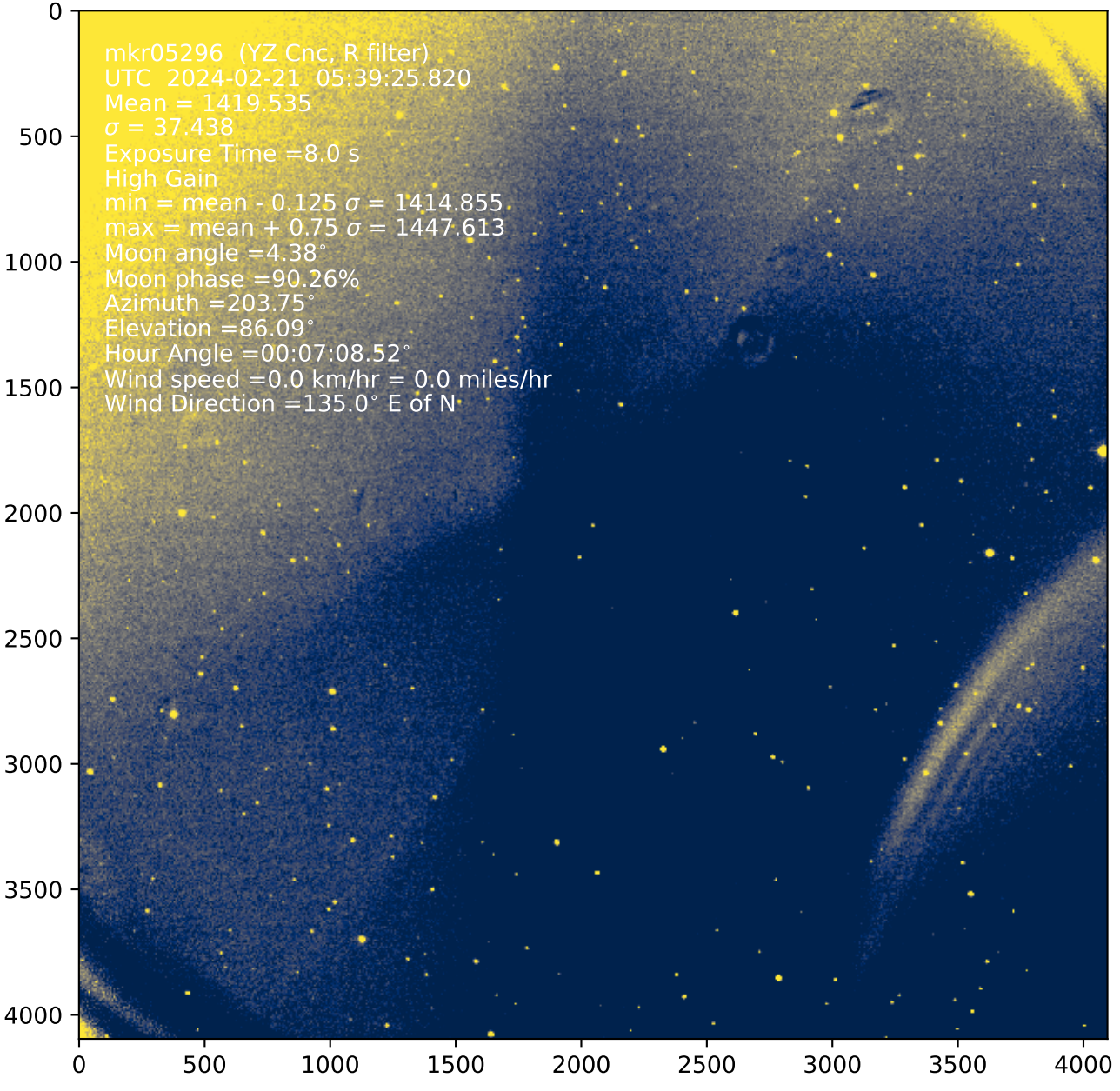
3000
3500
4000


mkr05296 (YZ Cnc, R filter)
UTC 2024-02-21 05:39:25.820
Mean = 1419.535
σ = 37.438
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1414.855
max = mean + 0.75 σ = 1447.613
Moon angle =4.38°
Moon phase =90.26%
Azimuth =203.75°
Elevation =86.09°
Hour Angle =00:07:08.52°
Wind speed =0.0 km/hr = 0.0 miles/hr
Wind Direction =135.0° E of N
0
500
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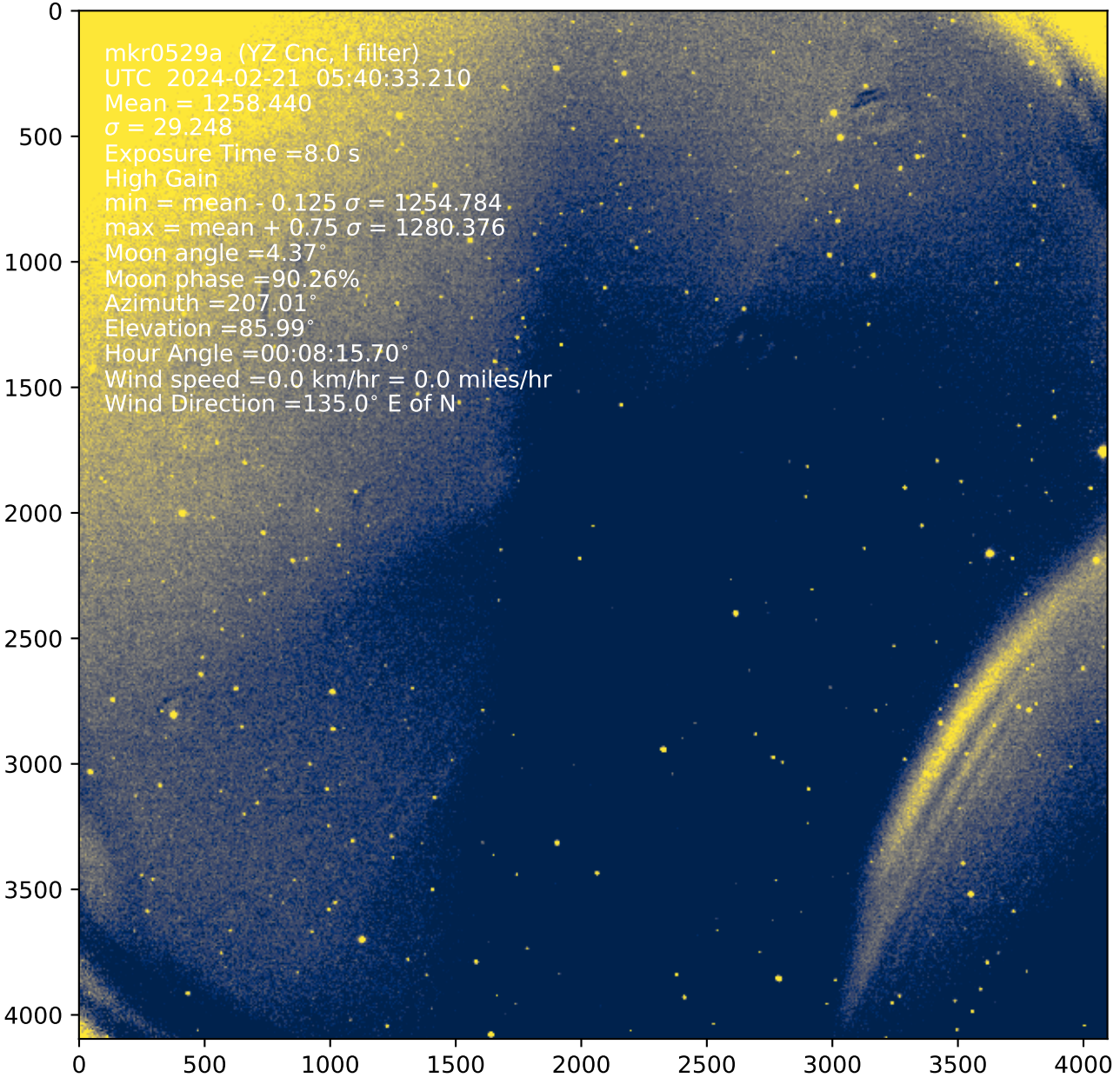
2500
3000
3500
4000


mkr0529a (YZ Cnc, I filter)
UTC 2024-02-21 05:40:33.210
Mean = 1258.440
σ = 29.248
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1254.784
max = mean + 0.75 σ = 1280.376
Moon angle =4.37°
Moon phase =90.26%
Azimuth =207.01°
Elevation =85.99°
Hour Angle =00:08:15.70°
Wind speed =0.0 km/hr = 0.0 miles/hr
Wind Direction =135.0° E of N
0
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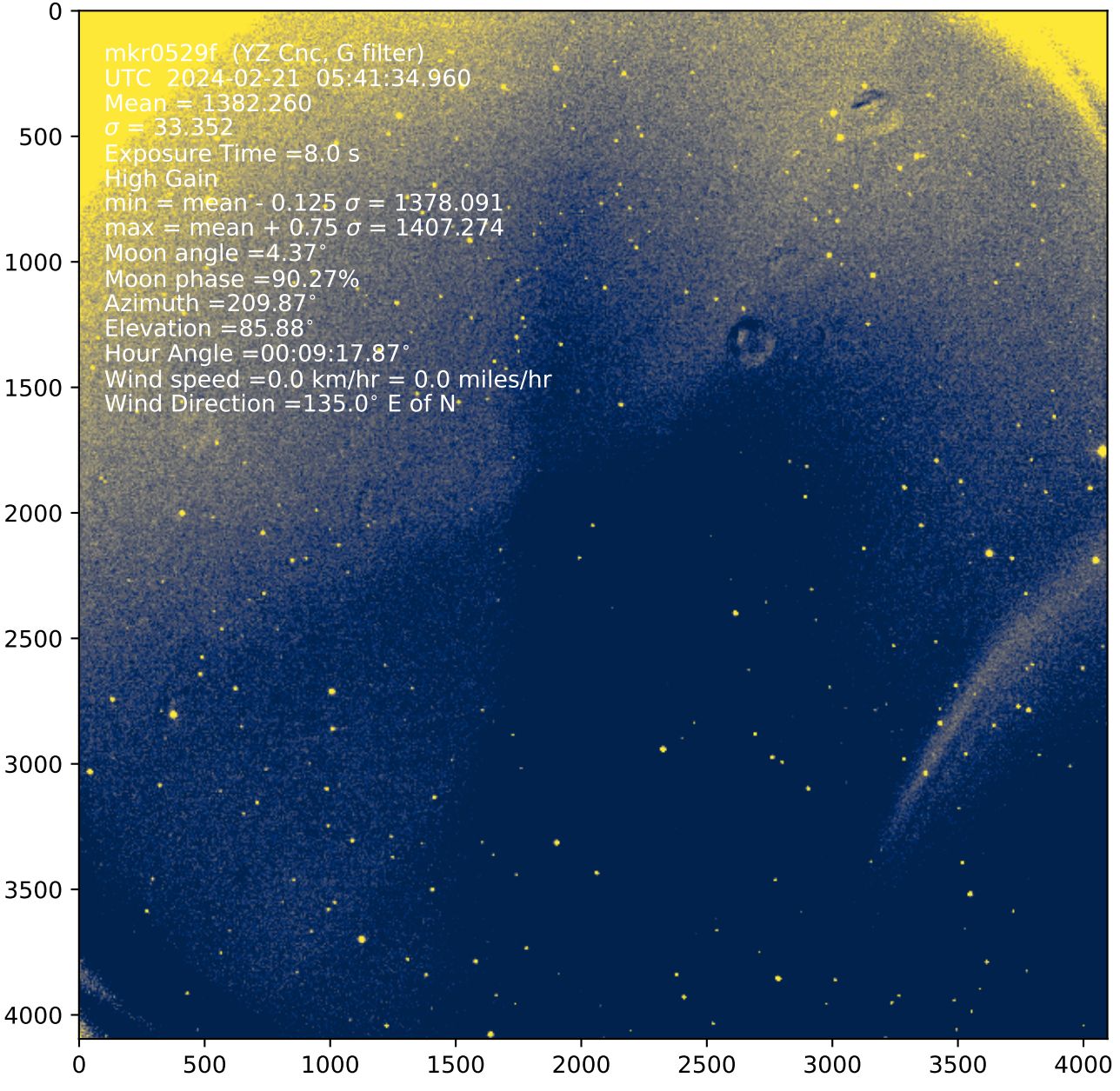
3500
4000


mkr0529f (YZ Cnc, G filter)
UTC 2024-02-21 05:41:34.960
Mean = 1382.260
σ = 33.352
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1378.091
max = mean + 0.75 σ = 1407.274
Moon angle =4.37°
Moon phase =90.27%
Azimuth =209.87°
Elevation =85.88°
Hour Angle =00:09:17.87°
Wind speed =0.0 km/hr = 0.0 miles/hr
Wind Direction =135.0° E of N
0
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2500
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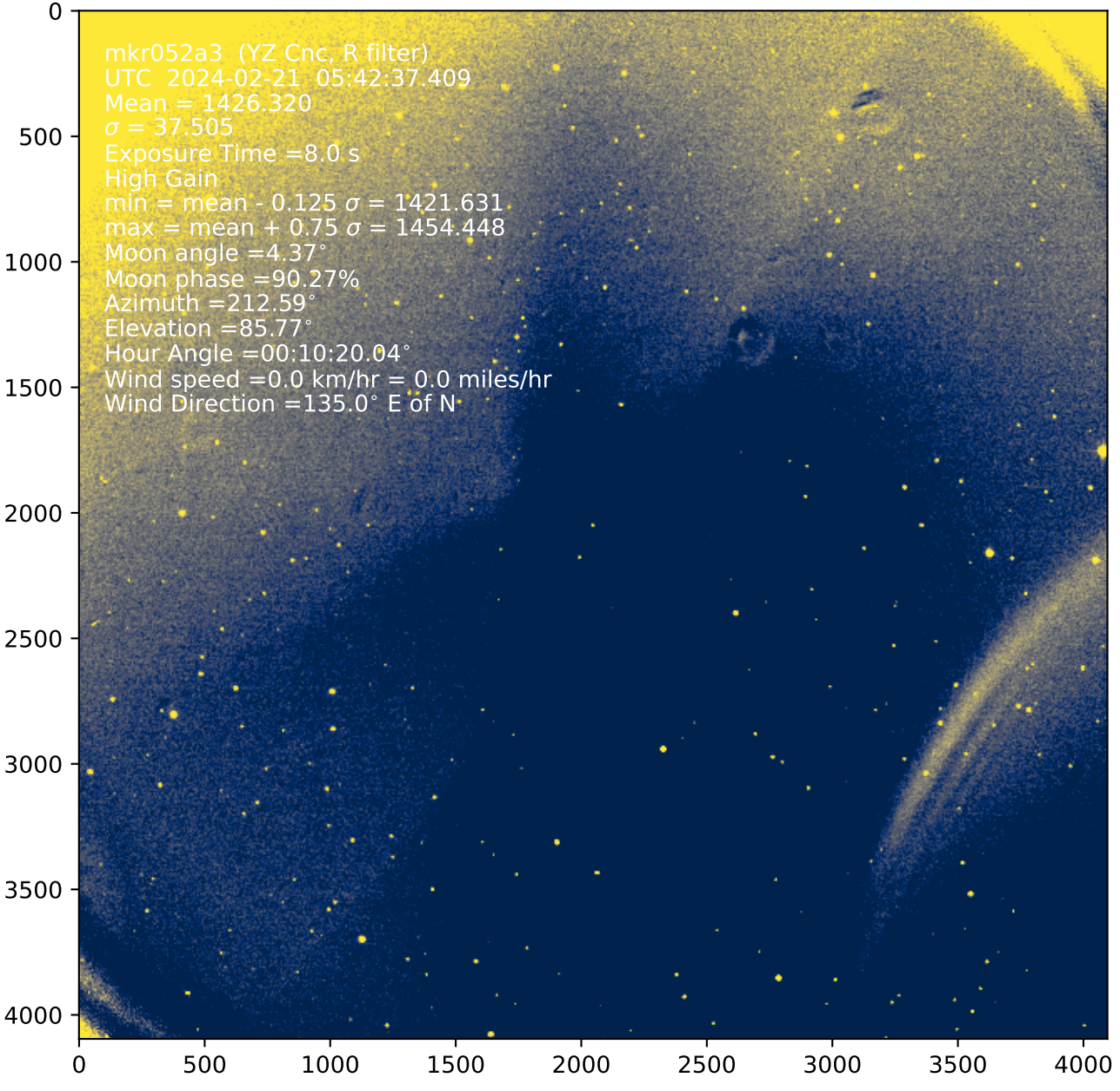
3500
4000


mkr052a3 (YZ Cnc, R filter)
UTC 2024-02-21 05:42:37.409
Mean = 1426.320
σ = 37.505
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1421.631
max = mean + 0.75 σ = 1454.448
Moon angle =4.37°
Moon phase =90.27%
Azimuth =212.59°
Elevation =85.77°
Hour Angle =00:10:20.04°
Wind speed =0.0 km/hr = 0.0 miles/hr
Wind Direction =135.0° E of N
0
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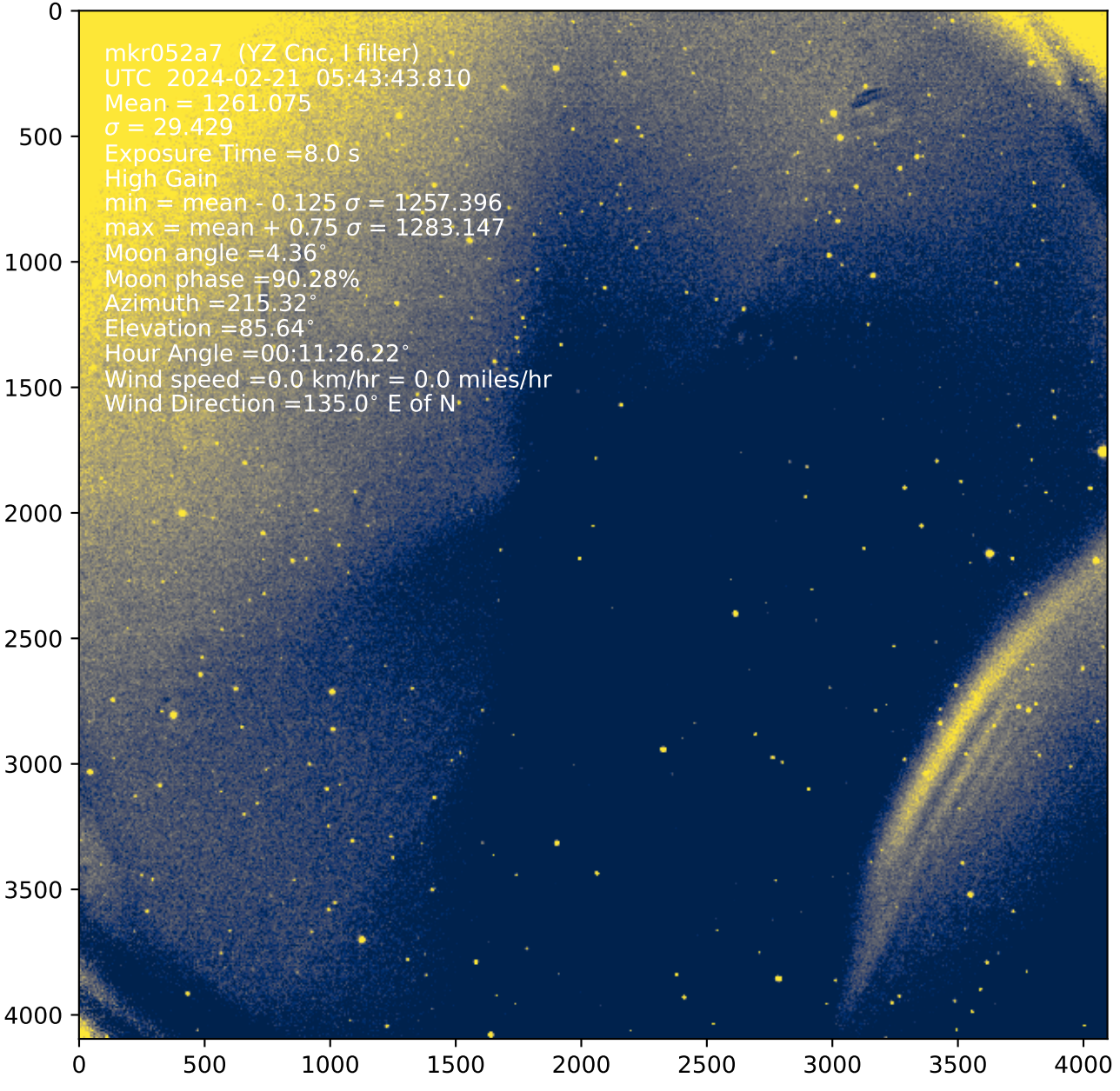
mkr052a7 (YZ Cnc, I filter)
UTC 2024-02-21 05:43:43.810
Mean = 1261.075
σ = 29.429
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1257.396
max = mean + 0.75 σ = 1283.147
Moon angle =4.36°
Moon phase =90.28%
Azimuth =215.32°
Elevation =85.64°
Hour Angle =00:11:26.22°
Wind speed =0.0 km/hr = 0.0 miles/hr
Wind Direction =135.0° E of N
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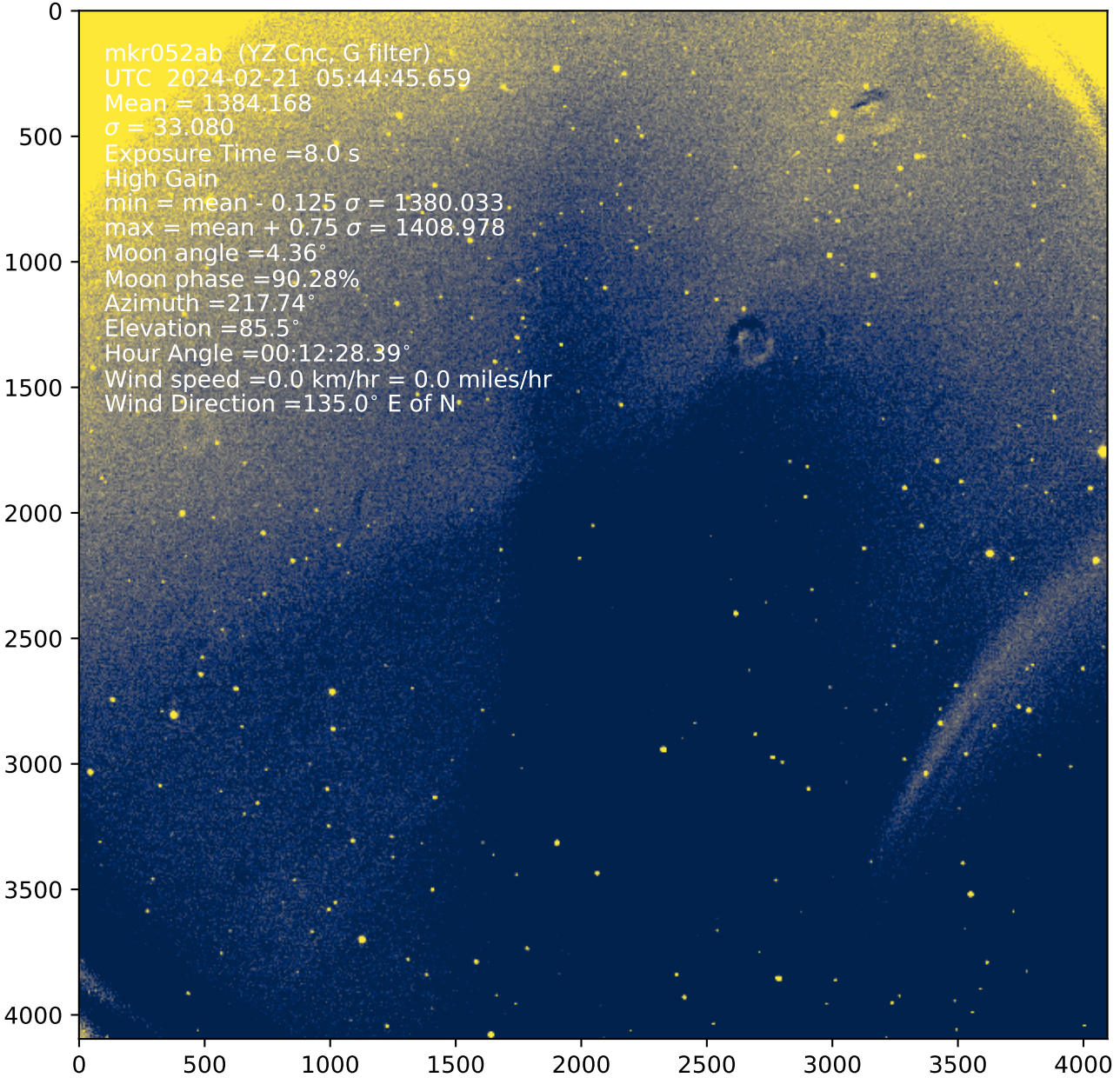
mkr052ab (YZ Cnc, G filter)
UTC 2024-02-21 05:44:45.659
Mean = 1384.168
σ = 33.080
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1380.033
max = mean + 0.75 σ = 1408.978
Moon angle =4.36°
Moon phase =90.28%
Azimuth =217.74°
Elevation =85.5°
Hour Angle =00:12:28.39°
Wind speed =0.0 km/hr = 0.0 miles/hr
Wind Direction =135.0° E of N
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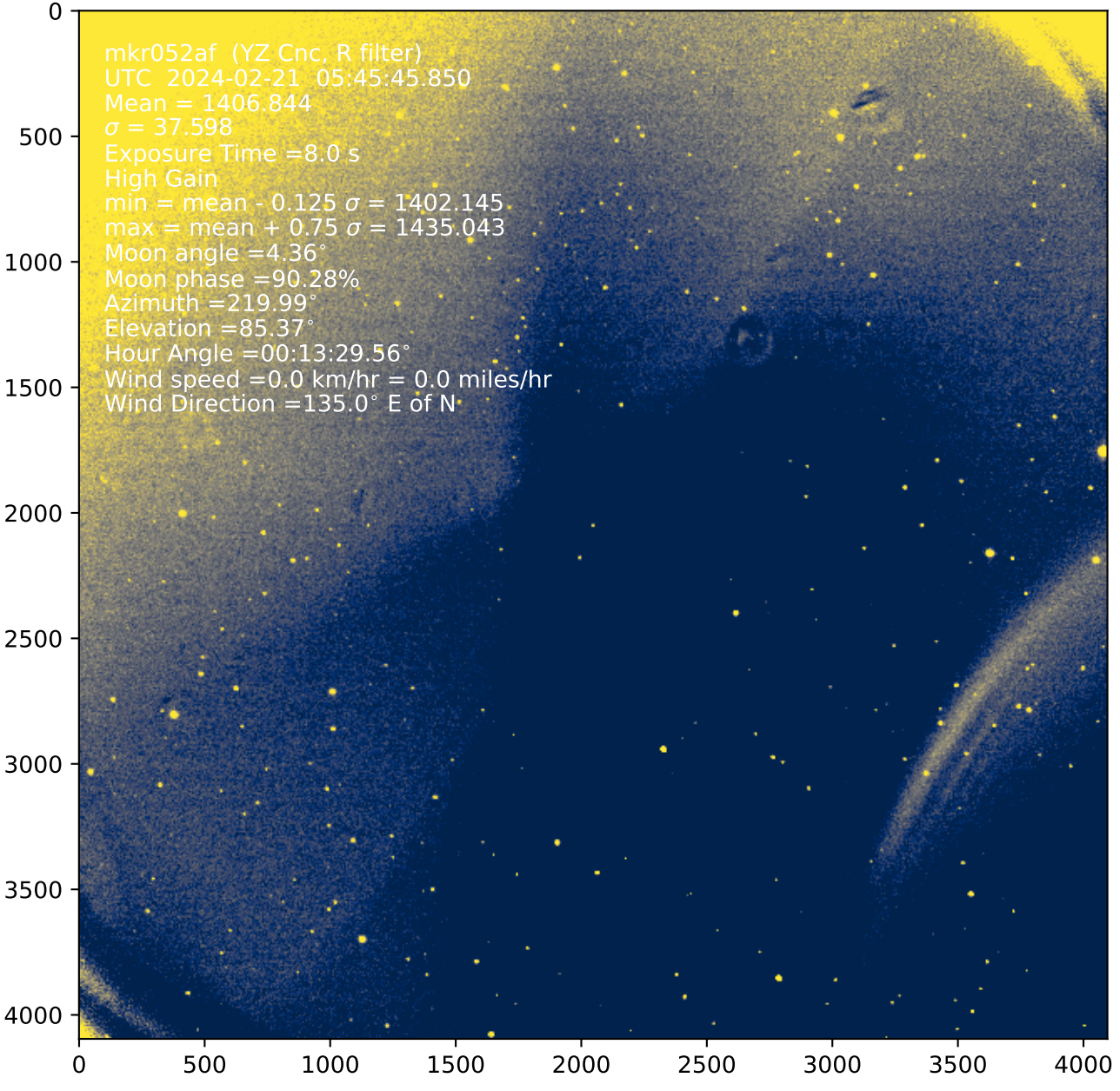
mkr052af (YZ Cnc, R filter)
UTC 2024-02-21 05:45:45.850
Mean = 1406.844
σ = 37.598
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1402.145
max = mean + 0.75 σ = 1435.043
Moon angle =4.36°
Moon phase =90.28%
Azimuth =219.99°
Elevation =85.37°
Hour Angle =00:13:29.56°
Wind speed =0.0 km/hr = 0.0 miles/hr
Wind Direction =135.0° E of N
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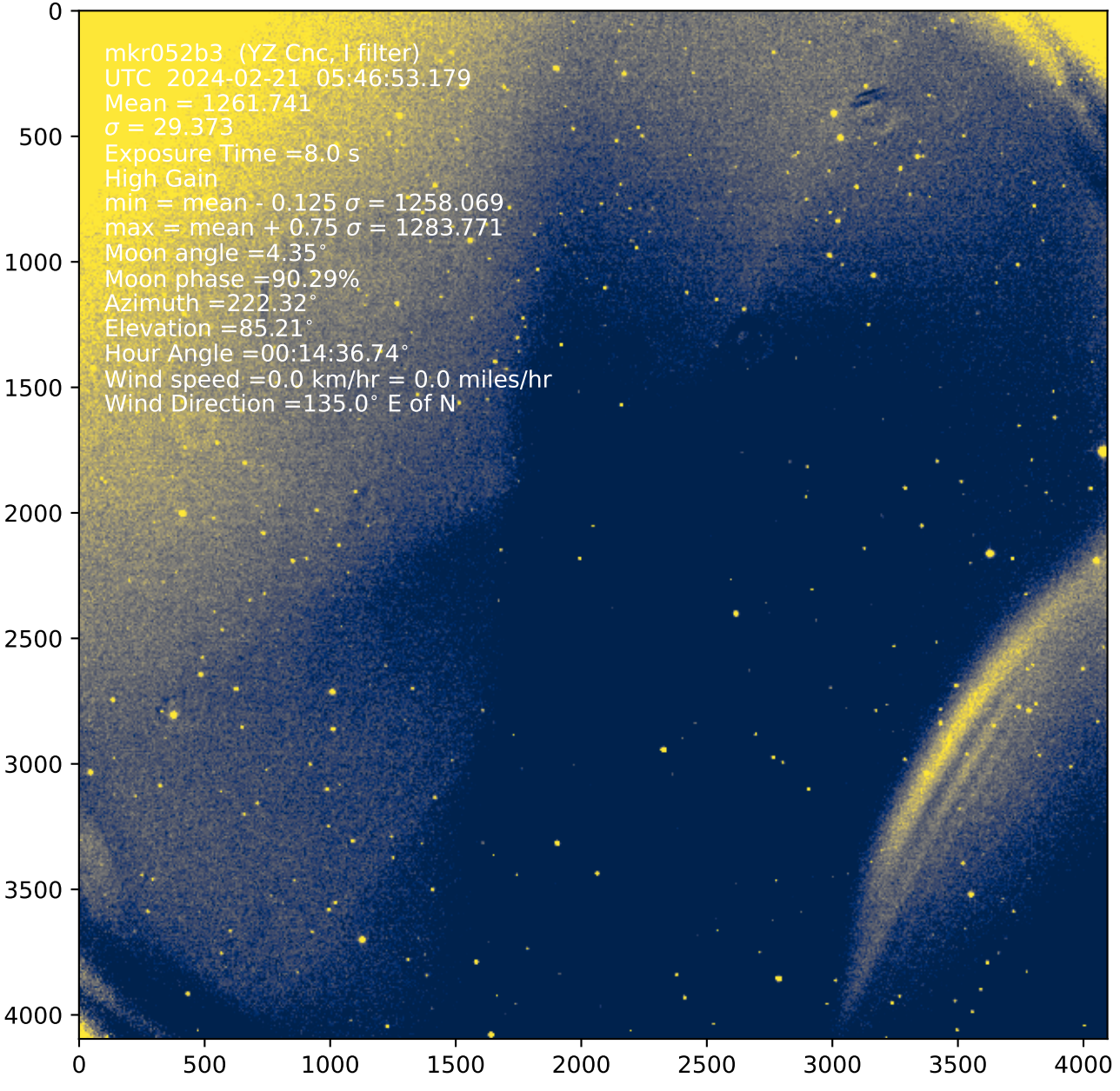
mkr052b3 (YZ Cnc, I filter)
UTC 2024-02-21 05:46:53.179
Mean = 1261.741
σ = 29.373
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1258.069
max = mean + 0.75 σ = 1283.771
Moon angle =4.35°
Moon phase =90.29%
Azimuth =222.32°
Elevation =85.21°
Hour Angle =00:14:36.74°
Wind speed =0.0 km/hr = 0.0 miles/hr
Wind Direction =135.0° E of N
0
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3500
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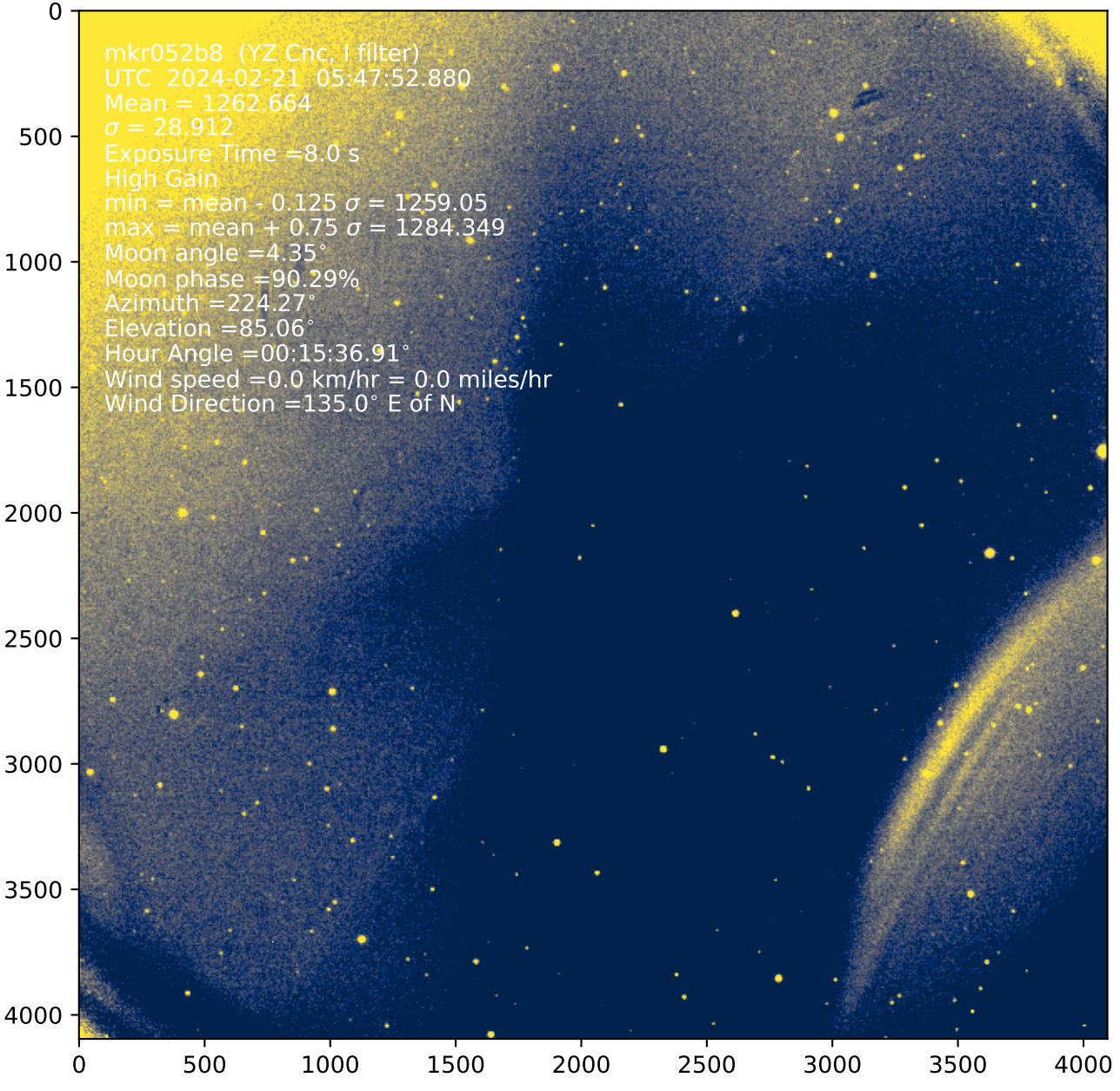
mkr052b8 (YZ Cnc, I filter)
UTC 2024-02-21 05:47:52.880
Mean = 1262.664
σ = 28.912
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1259.05
max = mean + 0.75 σ = 1284.349
Moon angle =4.35°
Moon phase =90.29%
Azimuth =224.27°
Elevation =85.06°
Hour Angle =00:15:36.91°
Wind speed =0.0 km/hr = 0.0 miles/hr
Wind Direction =135.0° E of N
0
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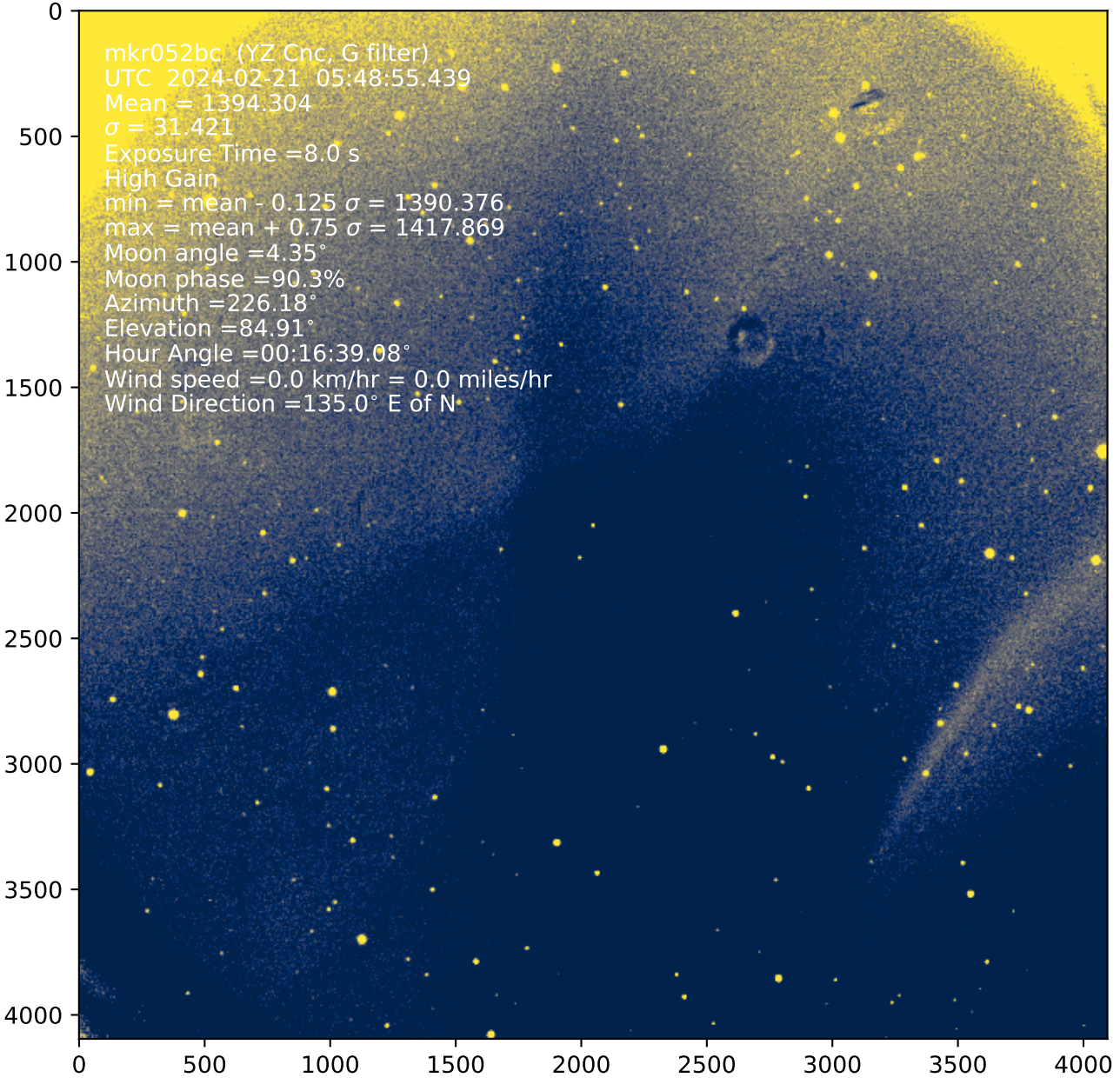
2500
3000
3500
4000


mkr052bc (YZ Cnc, G filter)
UTC 2024-02-21 05:48:55.439
Mean = 1394.304
σ = 31.421
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1390.376
max = mean + 0.75 σ = 1417.869
Moon angle =4.35°
Moon phase =90.3%
Azimuth =226.18°
Elevation =84.91°
Hour Angle =00:16:39.08°
Wind speed =0.0 km/hr = 0.0 miles/hr
Wind Direction =135.0° E of N
0
500
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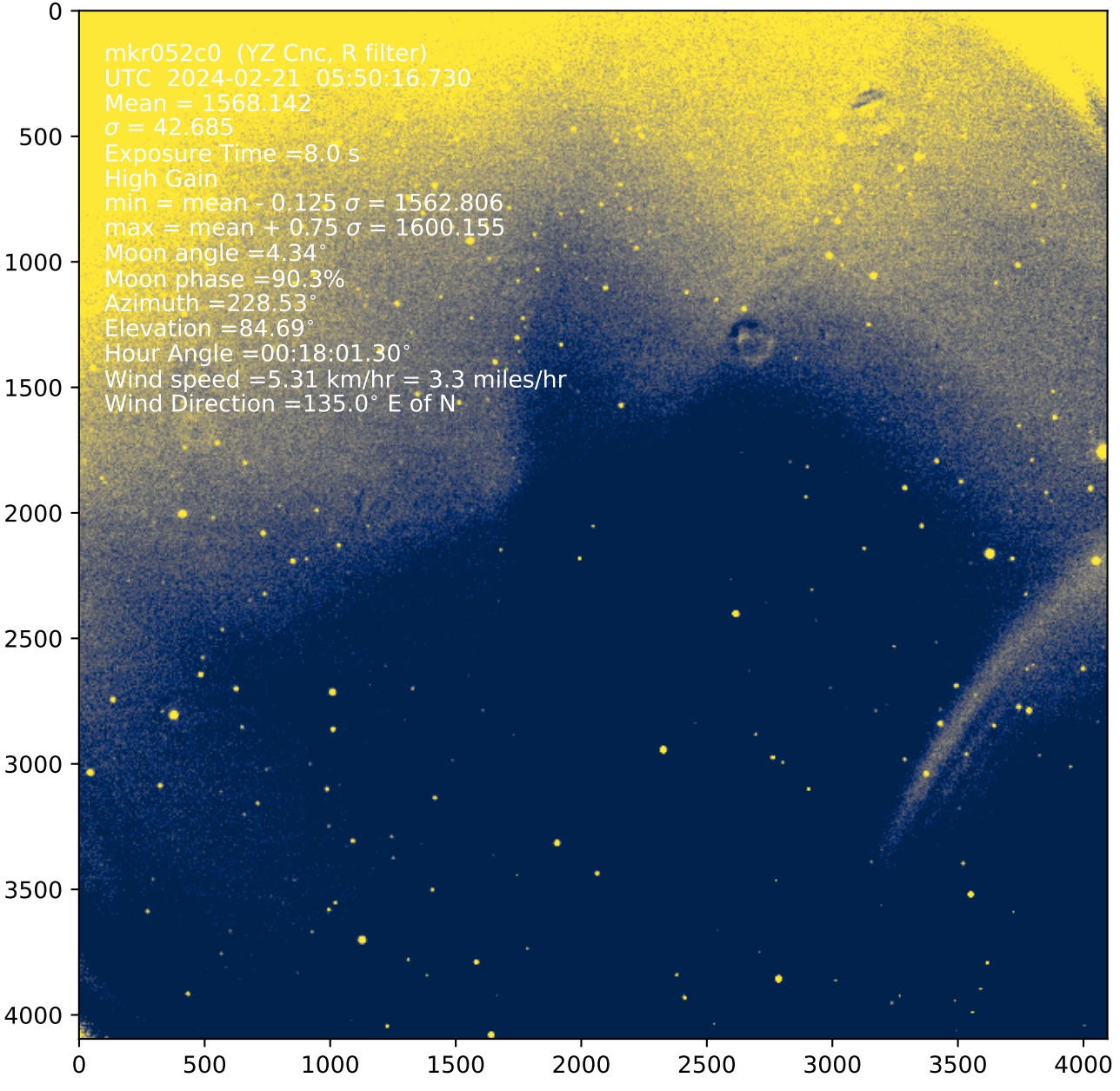
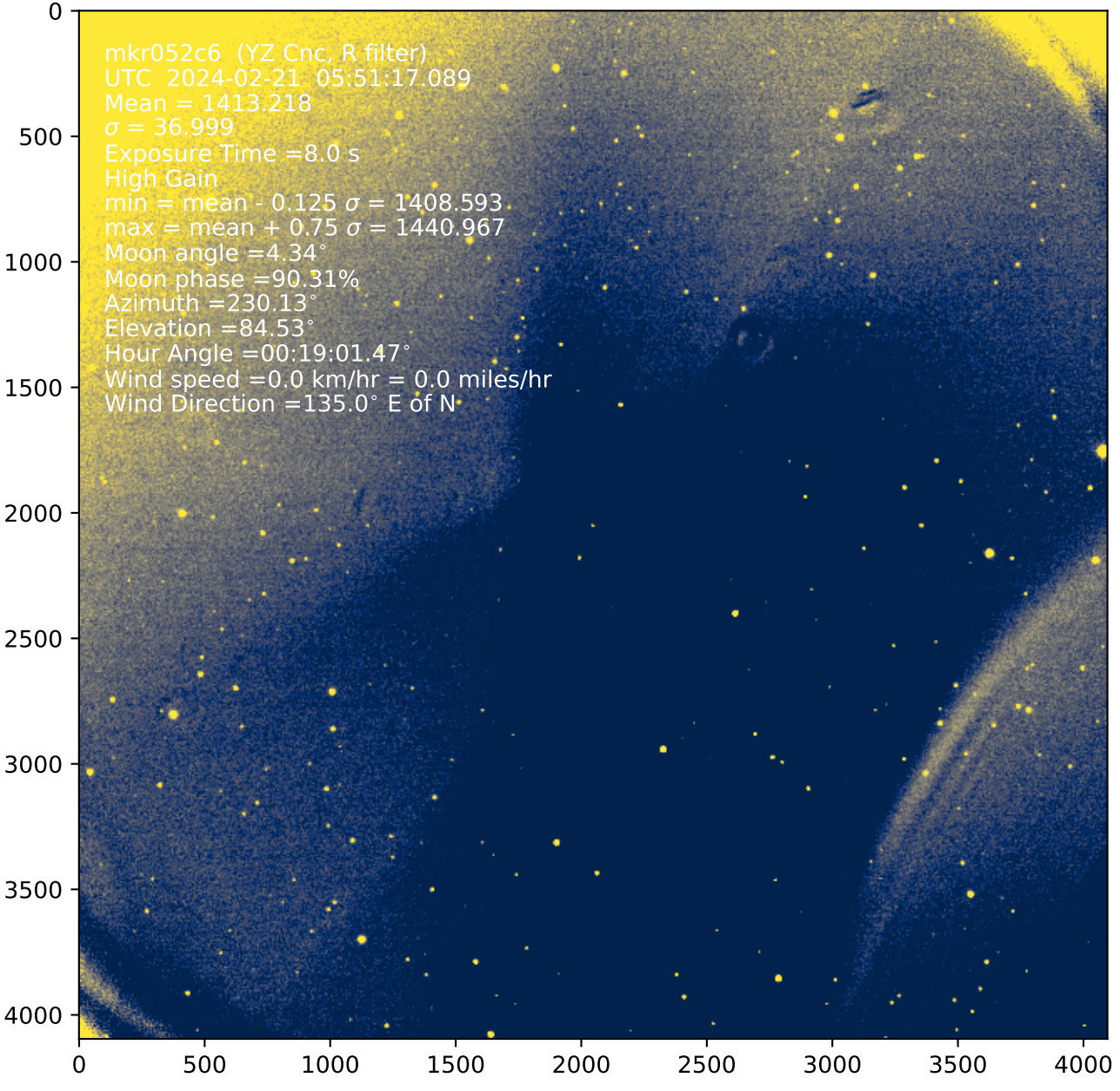
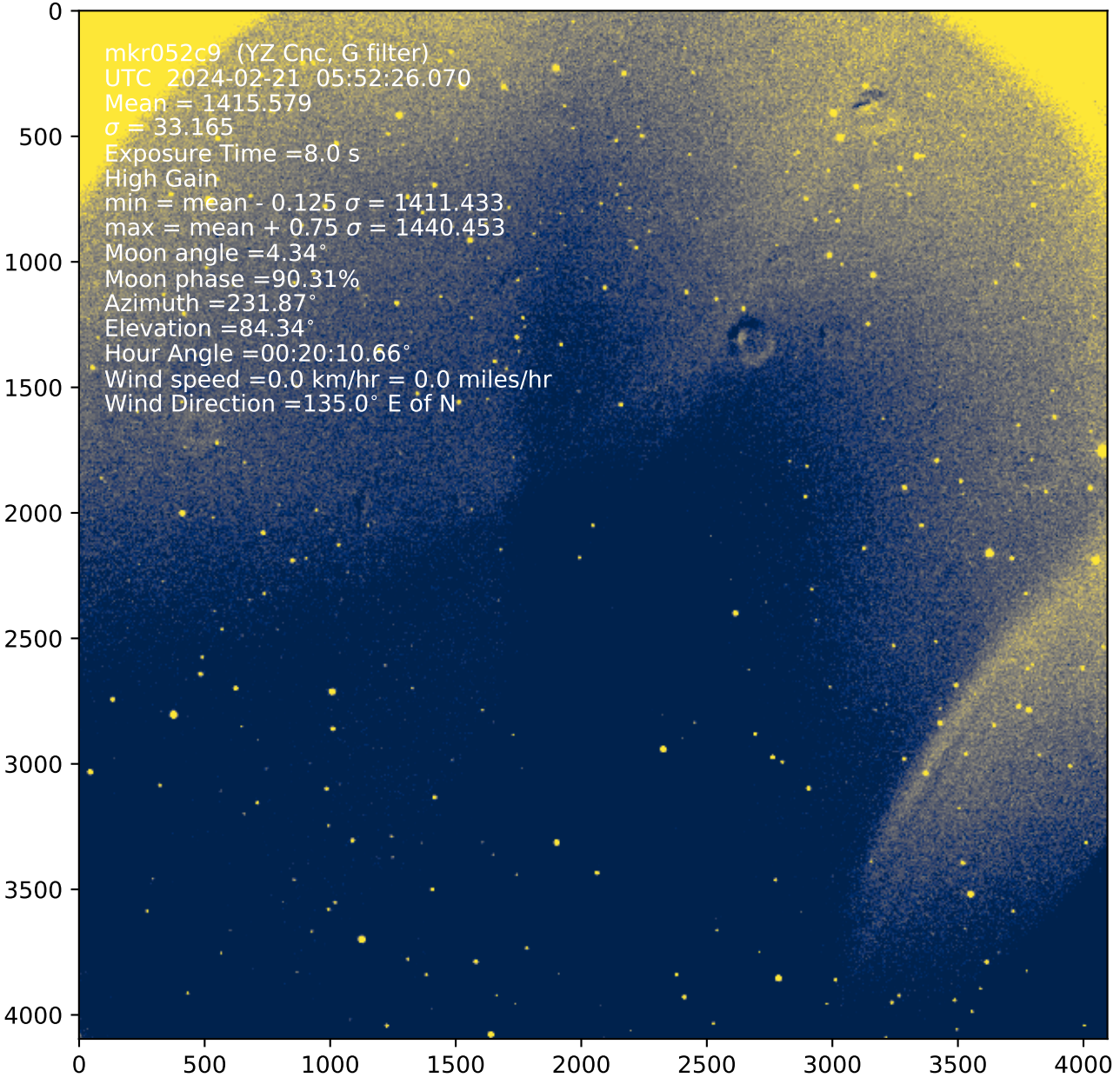
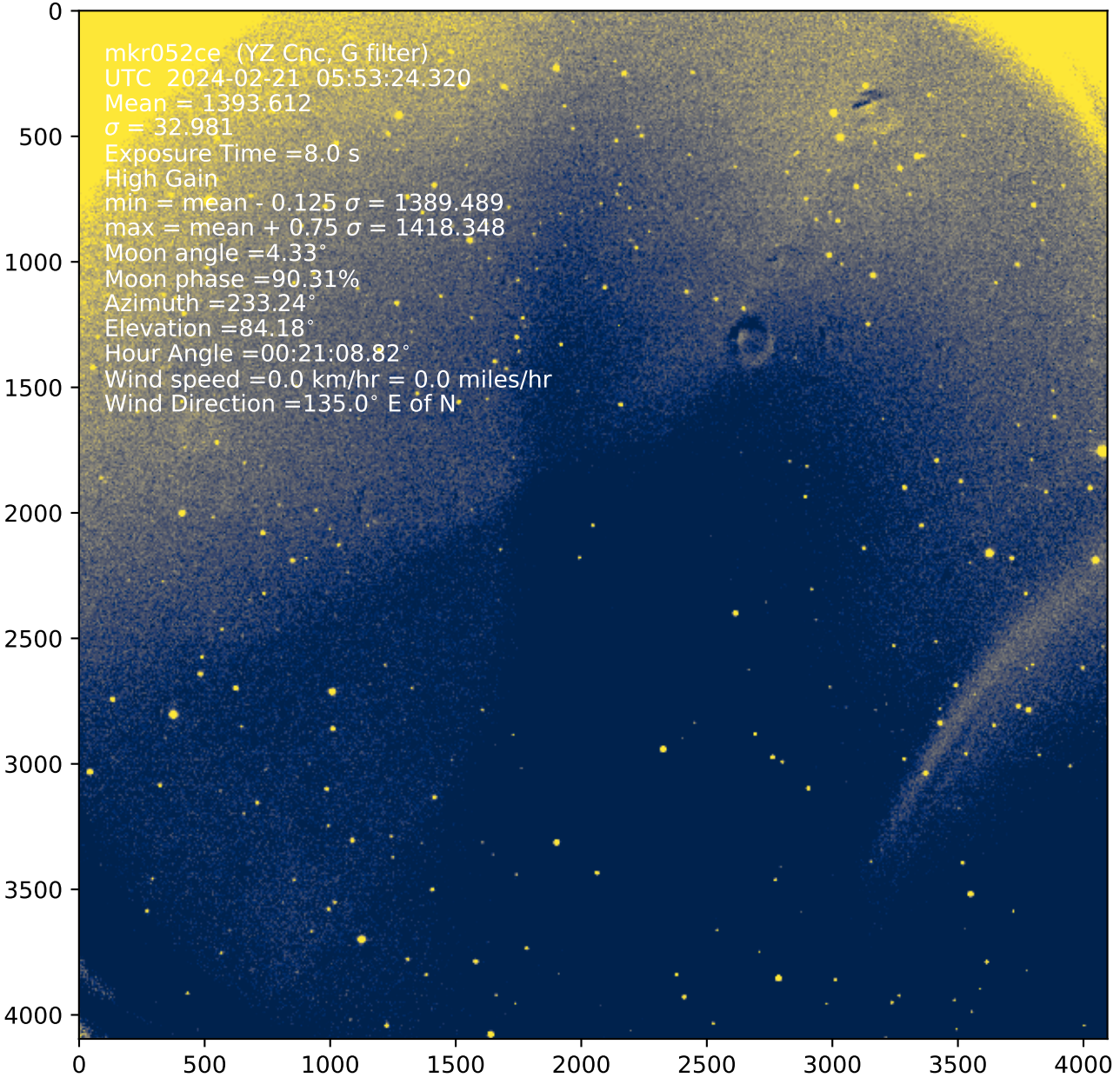
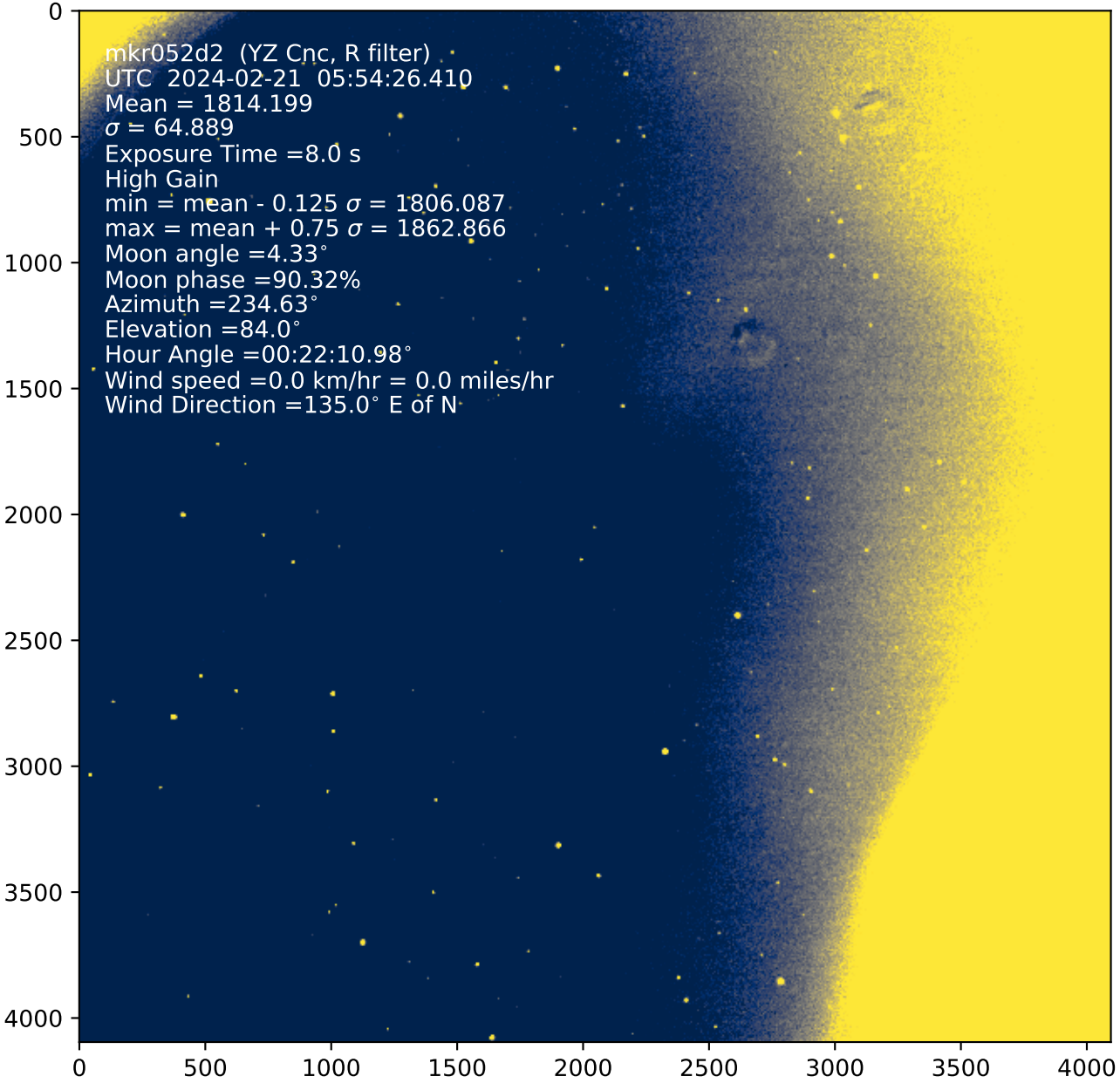
2500
3000
3500
4000

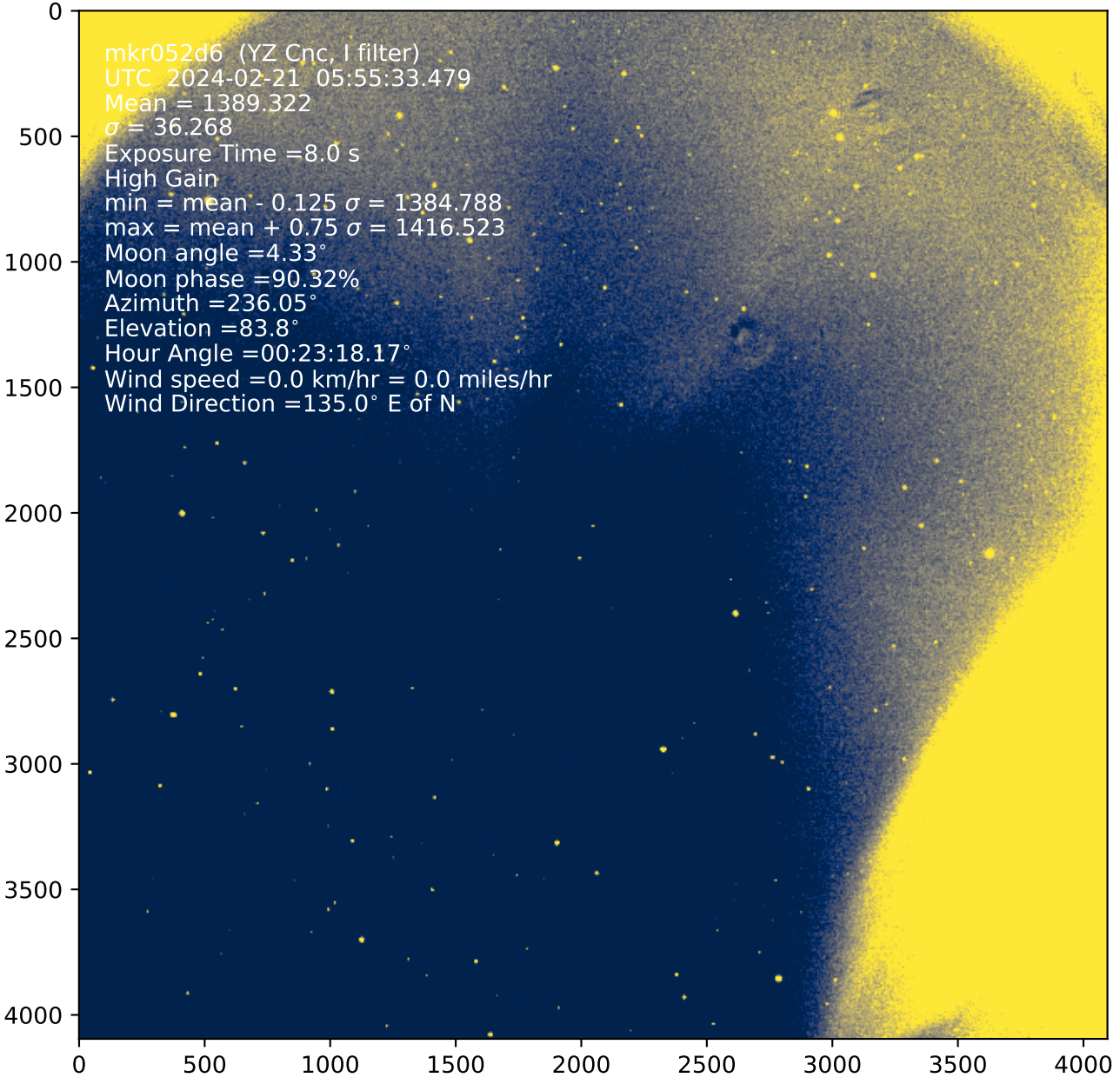

mkr052c0 (YZ Cnc, R filter)
UTC 2024-02-21 05:50:16.730
Mean = 1568.142
σ = 42.685
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1562.806
max = mean + 0.75 σ = 1600.155
Moon angle =4.34°
Moon phase =90.3%
Azimuth =228.53°
Elevation =84.69°
Hour Angle =00:18:01.30°
Wind speed =5.31 km/hr = 3.3 miles/hr
Wind Direction =135.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr052c6 (YZ Cnc, R filter)
UTC 2024-02-21 05:51:17.089
Mean = 1413.218
σ = 36.999
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1408.593
max = mean + 0.75 σ = 1440.967
Moon angle =4.34°
Moon phase =90.31%
Azimuth =230.13°
Elevation =84.53°
Hour Angle =00:19:01.47°
Wind speed =0.0 km/hr = 0.0 miles/hr
Wind Direction =135.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr052c9 (YZ Cnc, G filter)
UTC 2024-02-21 05:52:26.070
Mean = 1415.579
σ = 33.165
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1411.433
max = mean + 0.75 σ = 1440.453
Moon angle =4.34°
Moon phase =90.31%
Azimuth =231.87°
Elevation =84.34°
Hour Angle =00:20:10.66°
Wind speed =0.0 km/hr = 0.0 miles/hr
Wind Direction =135.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr052ce (YZ Cnc, G filter)
UTC 2024-02-21 05:53:24.320
Mean = 1393.612
σ = 32.981
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1389.489
max = mean + 0.75 σ = 1418.348
Moon angle =4.33°
Moon phase =90.31%
Azimuth =233.24°
Elevation =84.18°
Hour Angle =00:21:08.82°
Wind speed =0.0 km/hr = 0.0 miles/hr
Wind Direction =135.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr052d2 (YZ Cnc, R filter)
UTC 2024-02-21 05:54:26.410
Mean = 1814.199
σ = 64.889
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1806.087
max = mean + 0.75 σ = 1862.866
Moon angle =4.33°
Moon phase =90.32%
Azimuth =234.63°
Elevation =84.0°
Hour Angle =00:22:10.98°
Wind speed =0.0 km/hr = 0.0 miles/hr
Wind Direction =135.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr052d6 (YZ Cnc, I filter)
UTC 2024-02-21 05:55:33.479
Mean = 1389.322
σ = 36.268
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1384.788
max = mean + 0.75 σ = 1416.523
Moon angle =4.33°
Moon phase =90.32%
Azimuth =236.05°
Elevation =83.8°
Hour Angle =00:23:18.17°
Wind speed =0.0 km/hr = 0.0 miles/hr
Wind Direction =135.0° E of N
0
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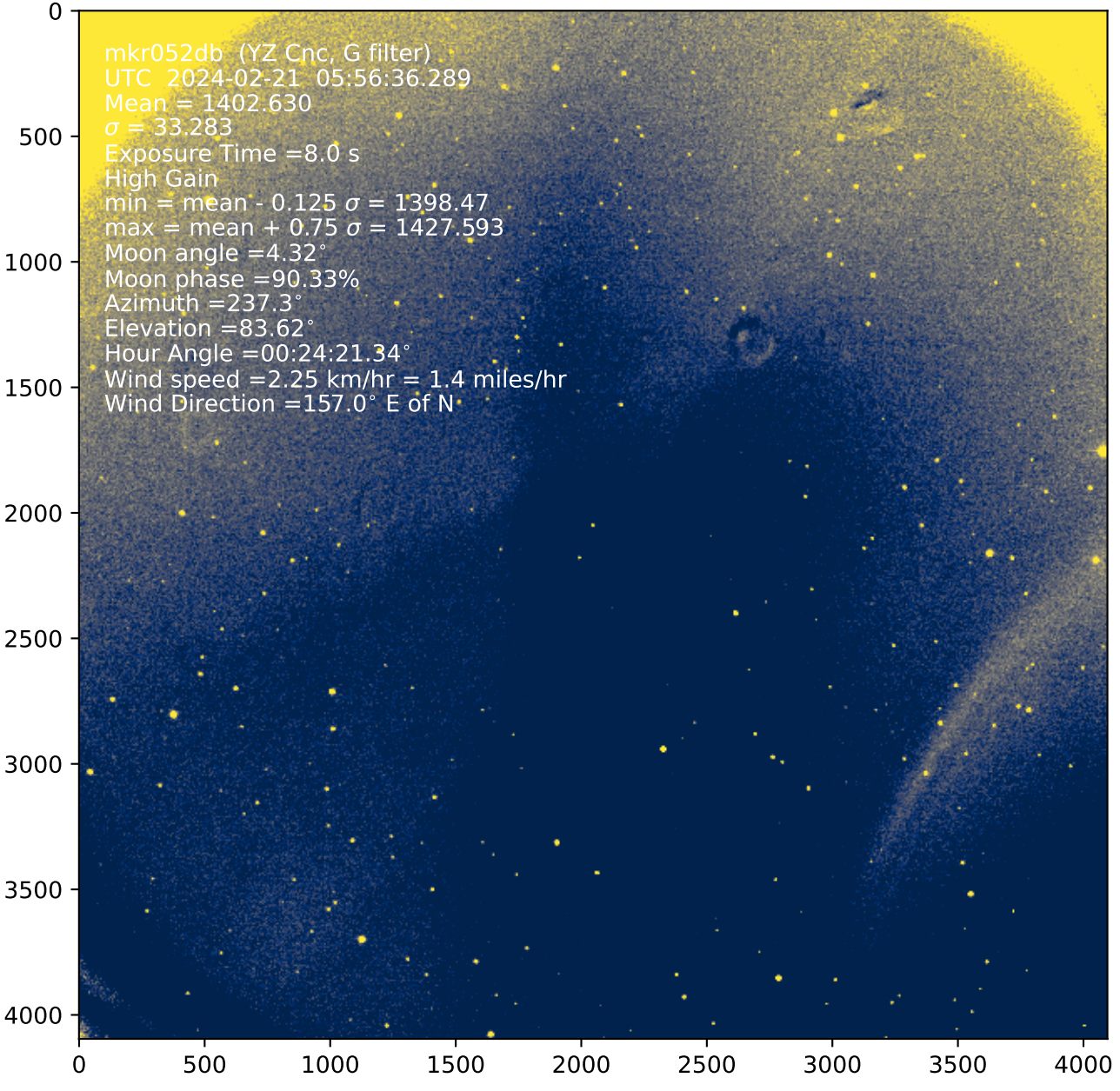
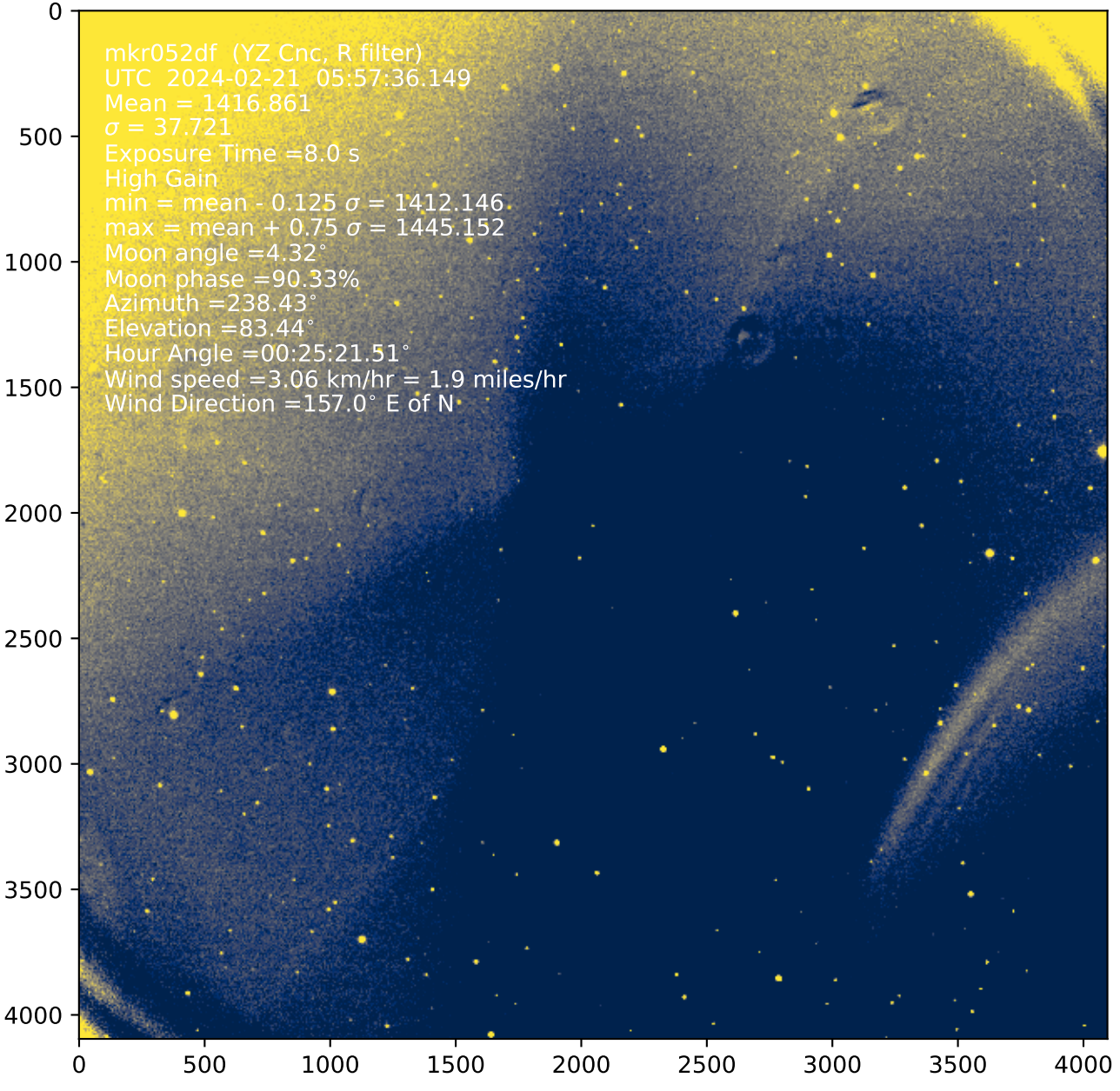
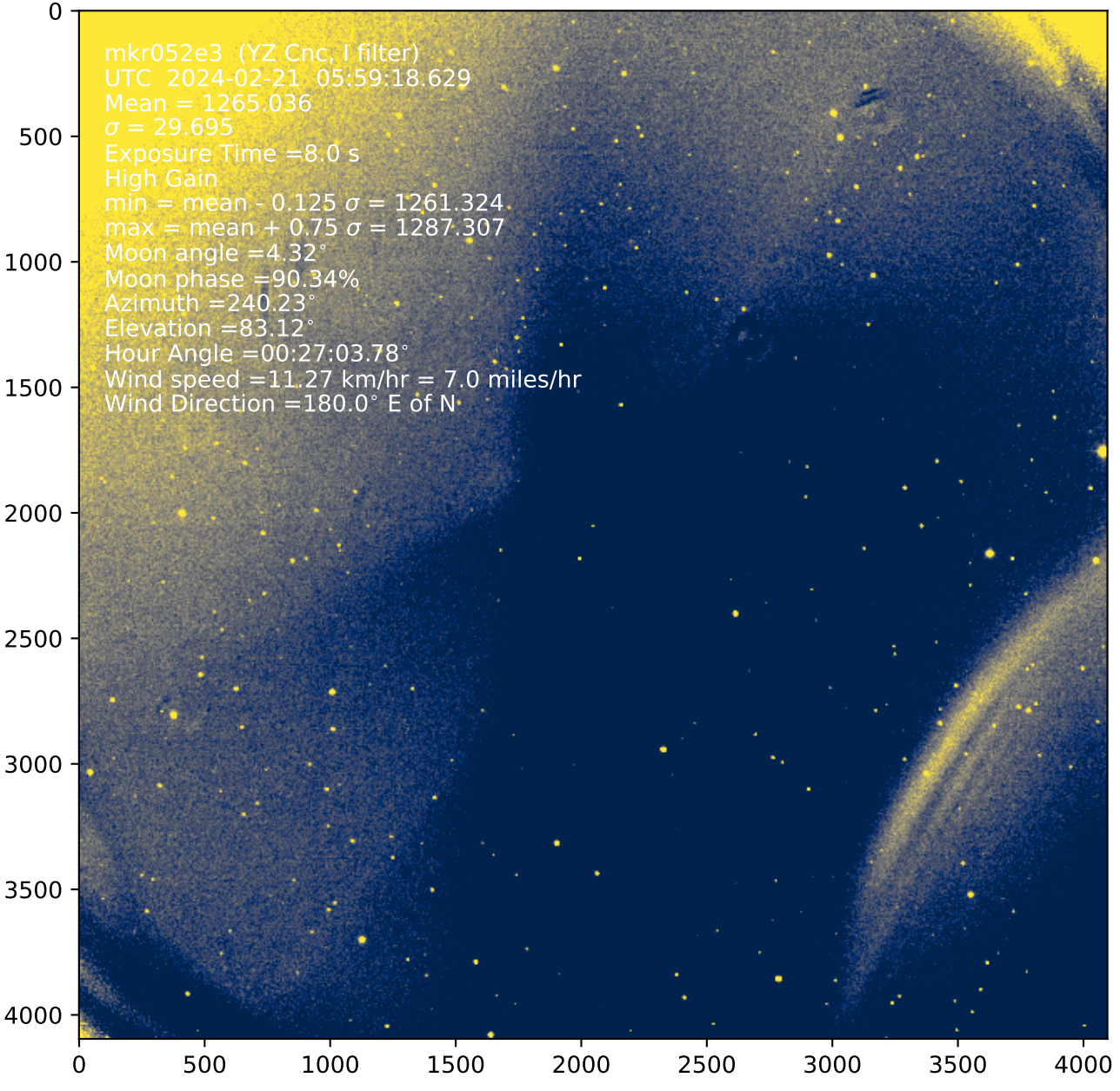
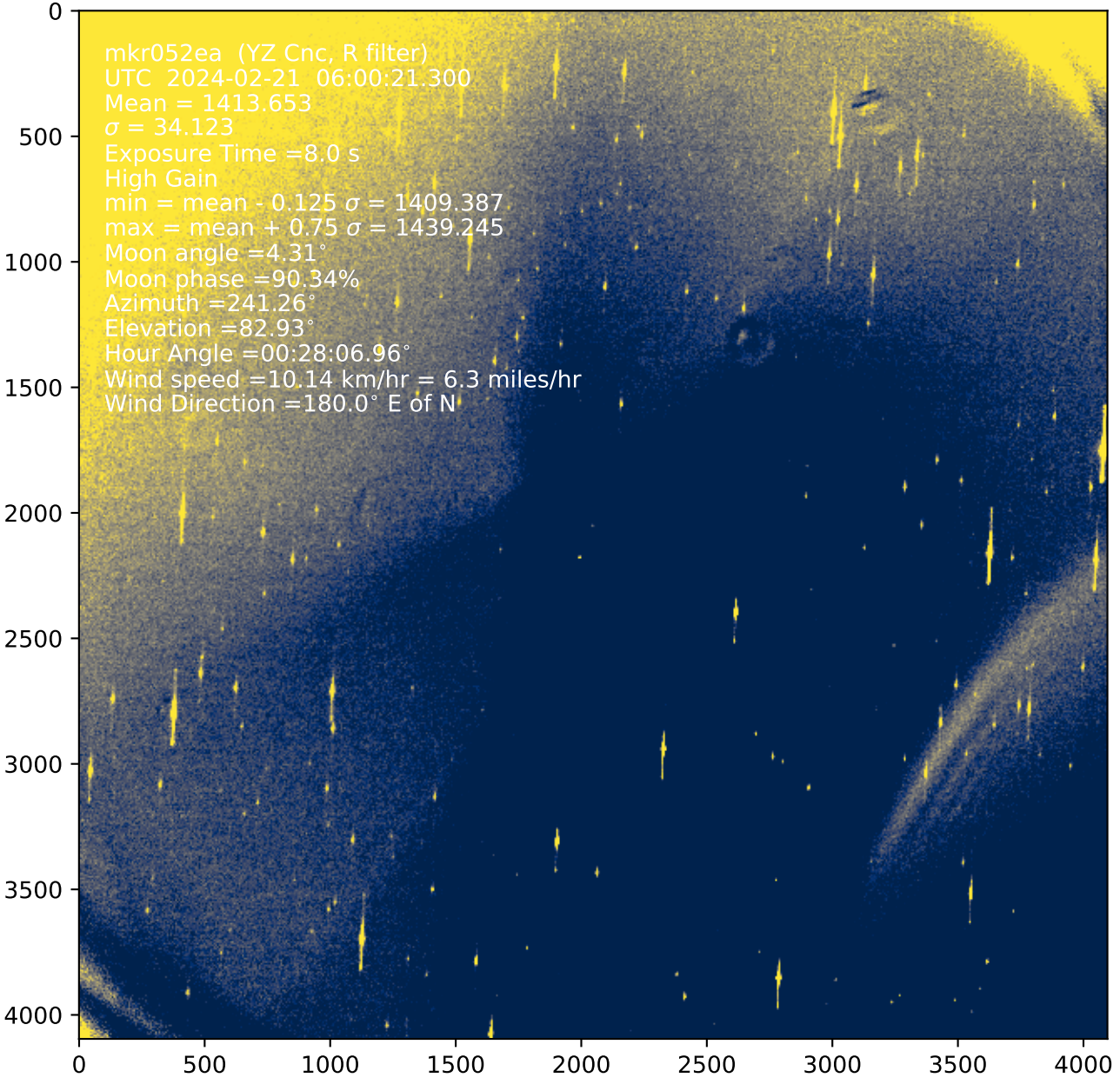
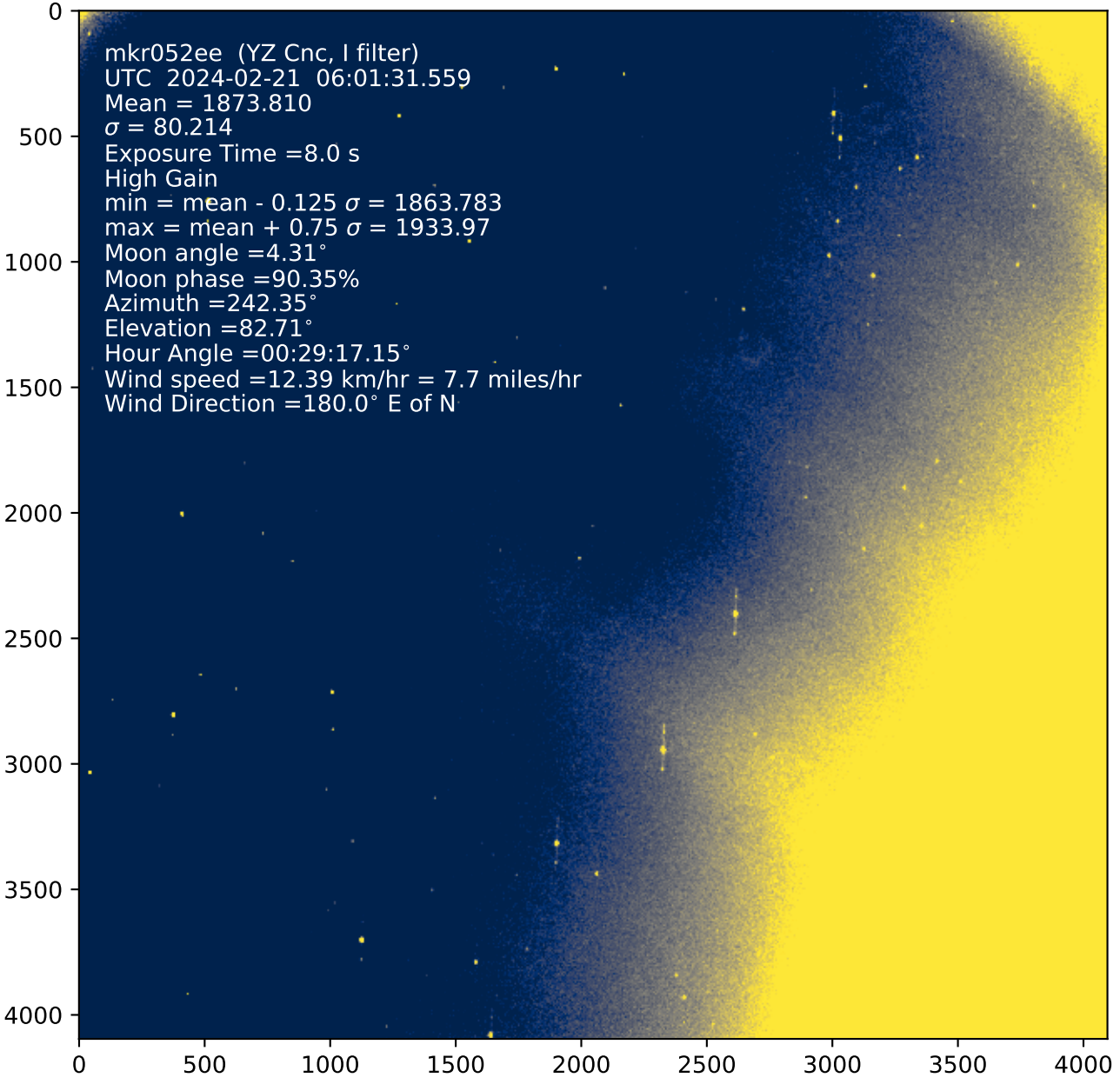
1000
1500
2000
2500
3000
3500
4000

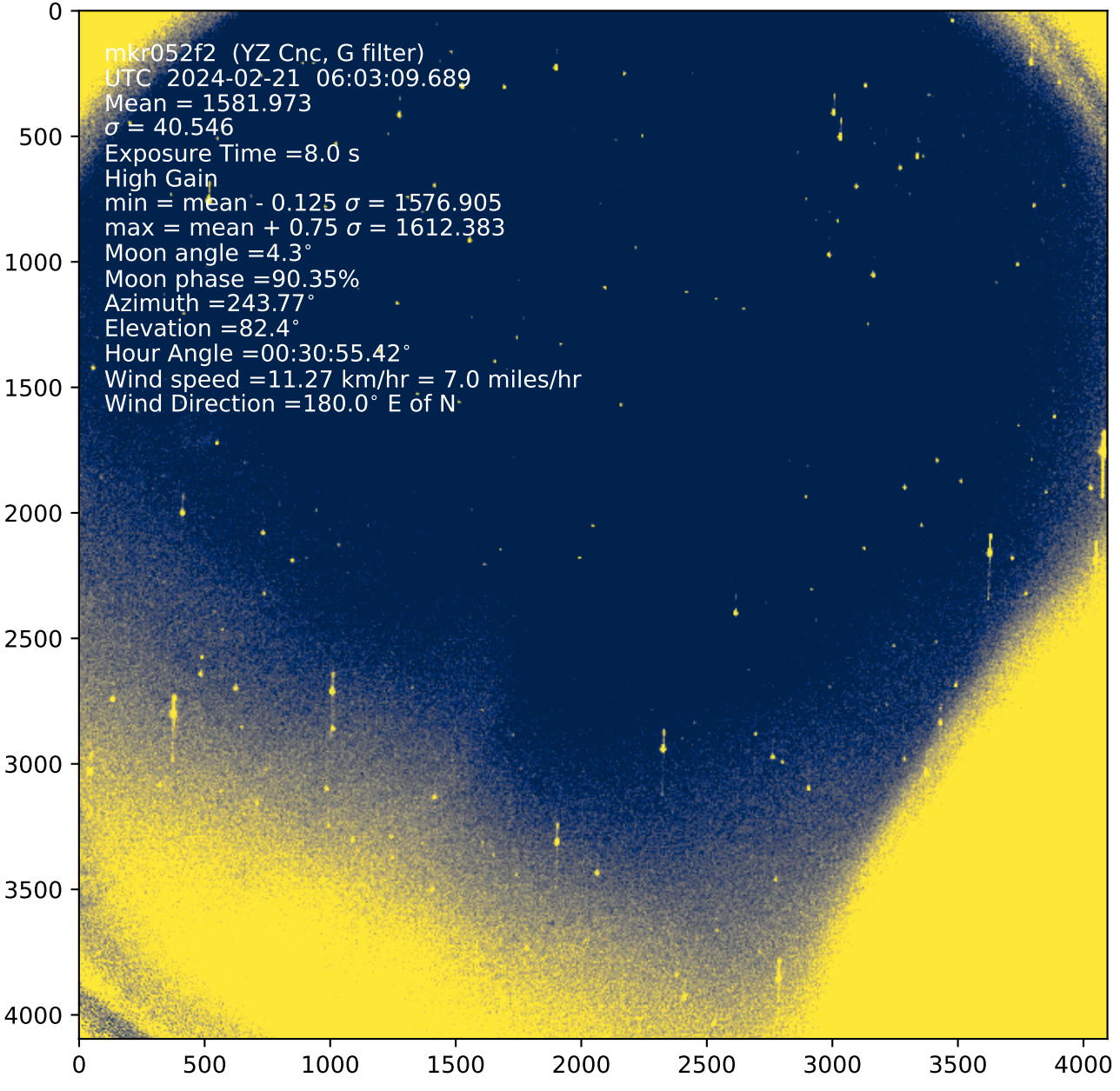

mkr052db (YZ Cnc, G filter)
UTC 2024-02-21 05:56:36.289
Mean = 1402.630
σ = 33.283
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1398.47
max = mean + 0.75 σ = 1427.593
Moon angle =4.32˚
Moon phase =90.33%
Azimuth =237.3˚
Elevation =83.62˚
Hour Angle =00:24:21.34˚
Wind speed =2.25 km/hr = 1.4 miles/hr
Wind Direction =157.0˚ E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr052df (YZ Cnc, R filter)
UTC 2024-02-21 05:57:36.149
Mean = 1416.861
σ = 37.721
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1412.146
max = mean + 0.75 σ = 1445.152
Moon angle =4.32°
Moon phase =90.33%
Azimuth =238.43°
Elevation =83.44°
Hour Angle =00:25:21.51°
Wind speed =3.06 km/hr = 1.9 miles/hr
Wind Direction =157.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr052e3 (YZ Cnc, I filter)
UTC 2024-02-21 05:59:18.629
Mean = 1265.036
σ = 29.695
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1261.324
max = mean + 0.75 σ = 1287.307
Moon angle =4.32°
Moon phase =90.34%
Azimuth =240.23°
Elevation =83.12°
Hour Angle =00:27:03.78°
Wind speed =11.27 km/hr = 7.0 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr052ea (YZ Cnc, R filter)
UTC 2024-02-21 06:00:21.300
Mean = 1413.653
σ = 34.123
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1409.387
max = mean + 0.75 σ = 1439.245
Moon angle =4.31°
Moon phase =90.34%
Azimuth =241.26°
Elevation =82.93°
Hour Angle =00:28:06.96°
Wind speed =10.14 km/hr = 6.3 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr052ee (YZ Cnc, I filter)
UTC 2024-02-21 06:01:31.559
Mean = 1873.810
σ = 80.214
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1863.783
max = mean + 0.75 σ = 1933.97
Moon angle =4.31°
Moon phase =90.35%
Azimuth =242.35°
Elevation =82.71°
Hour Angle =00:29:17.15°
Wind speed =12.39 km/hr = 7.7 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr052f2 (YZ Cnc, G filter)
UTC 2024-02-21 06:03:09.689
Mean = 1581.973
σ = 40.546
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1576.905
max = mean + 0.75 σ = 1612.383
Moon angle =4.3°
Moon phase =90.35%
Azimuth =243.77°
Elevation =82.4°
Hour Angle =00:30:55.42°
Wind speed =11.27 km/hr = 7.0 miles/hr
Wind Direction =180.0° E of N
0
500
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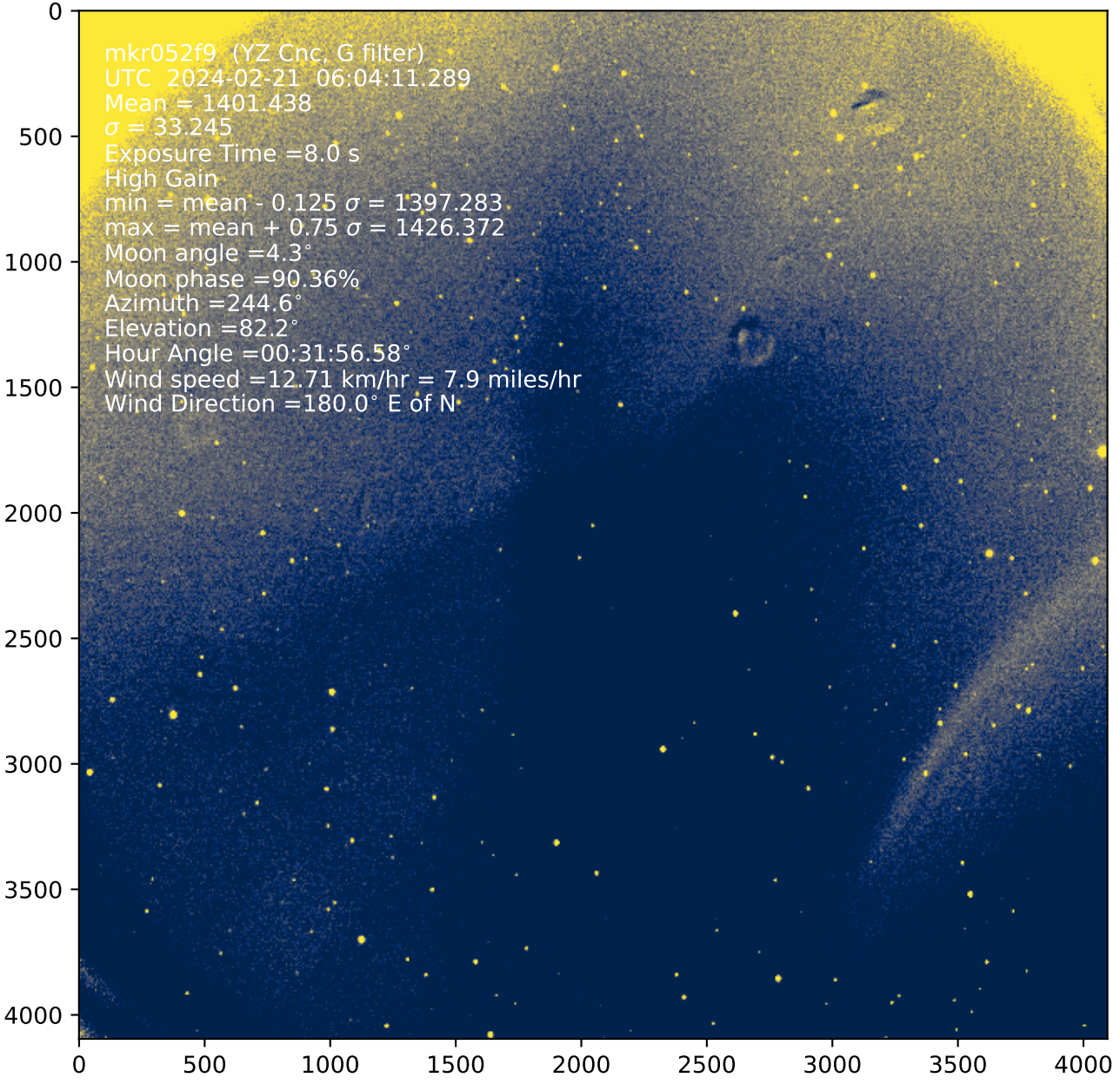
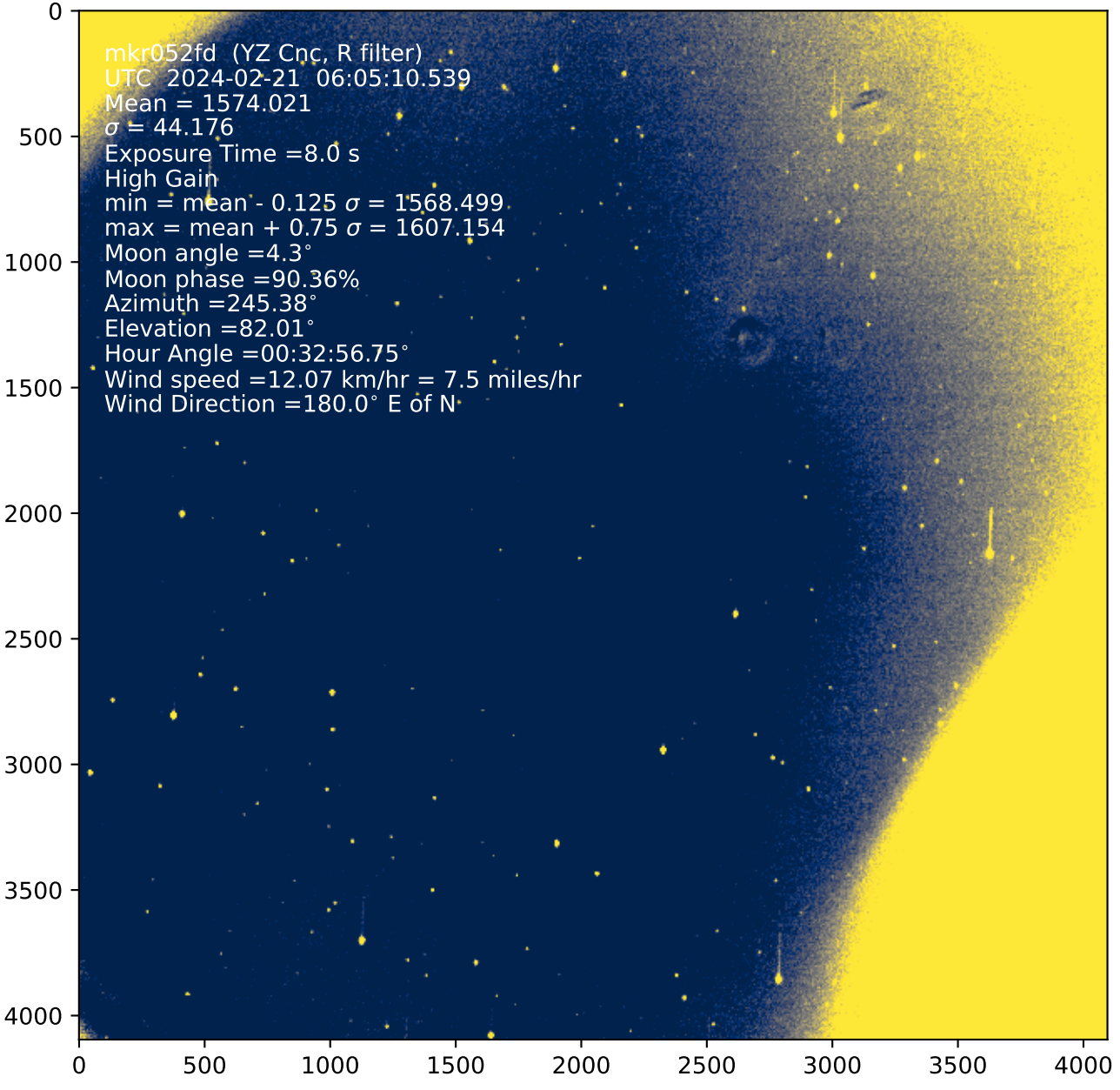
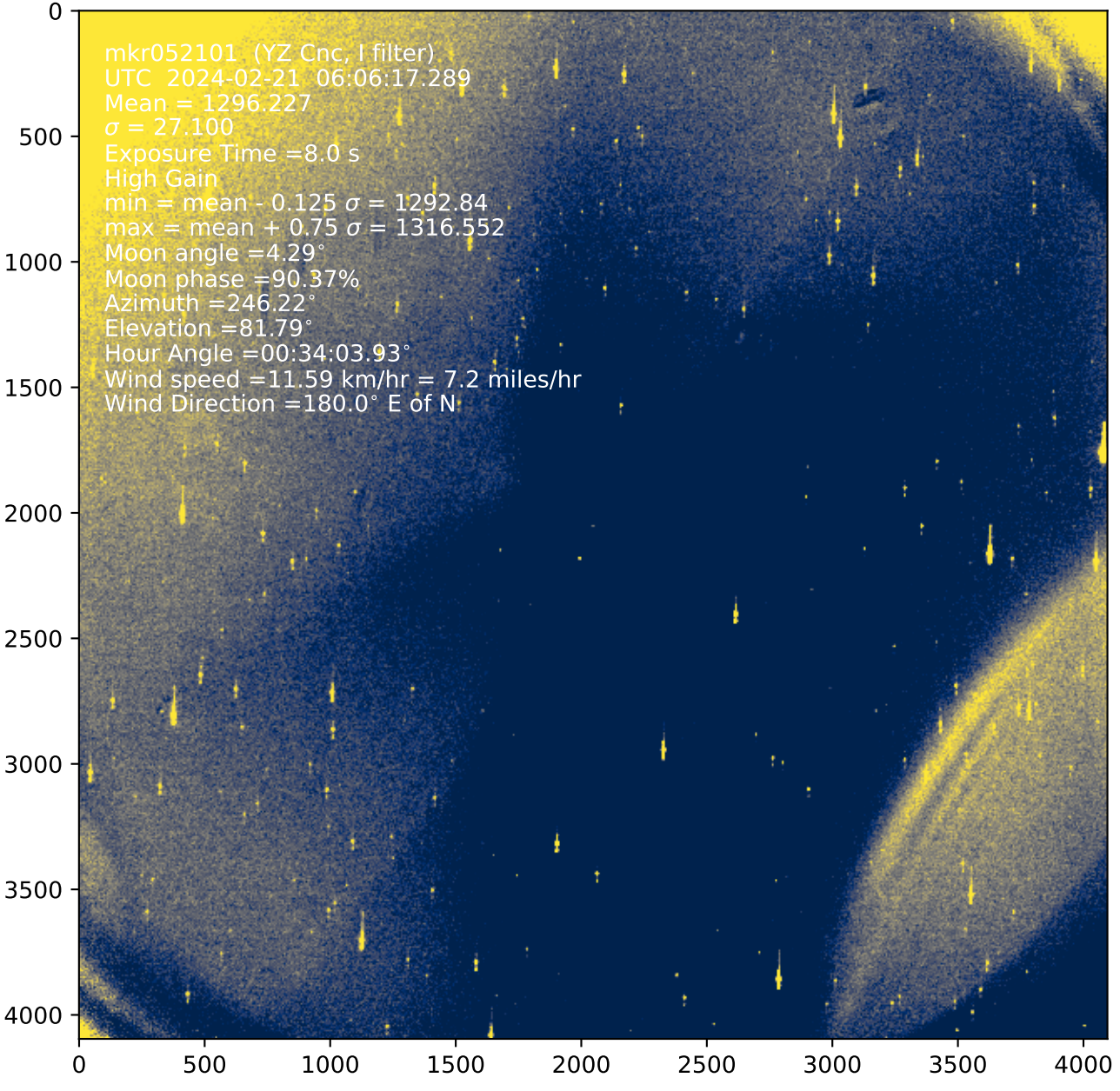
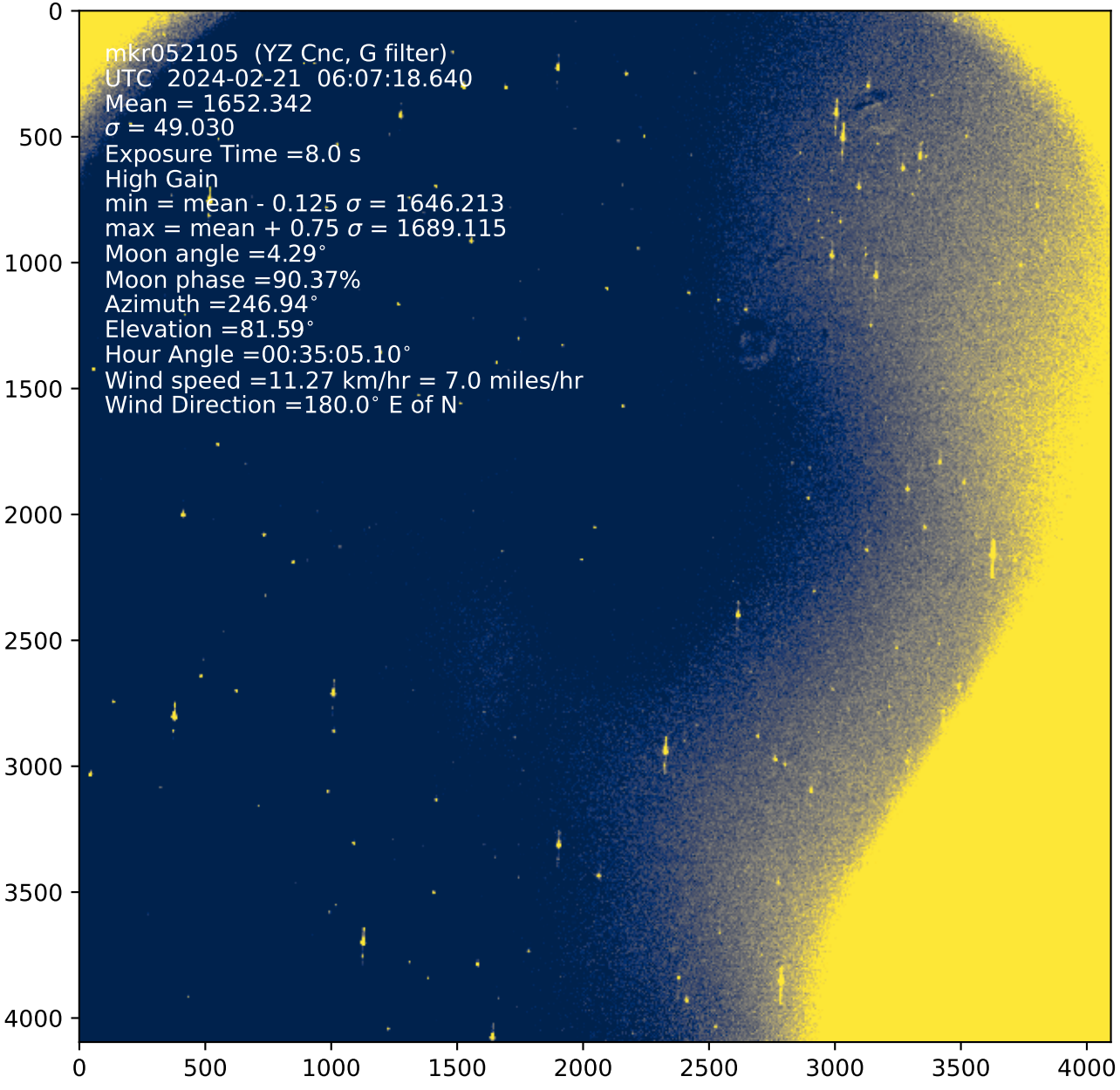
2000
2500
3000
3500
4000


mkr052f9 (YZ Cnc, G filter)
UTC 2024-02-21 06:04:11.289
Mean = 1401.438
σ = 33.245
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1397.283
max = mean + 0.75 σ = 1426.372
Moon angle =4.3˚
Moon phase =90.36%
Azimuth =244.6˚
Elevation =82.2˚
Hour Angle =00:31:56.58˚
Wind speed =12.71 km/hr = 7.9 miles/hr
Wind Direction =180.0˚ E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr052fd (YZ Cnc, R filter)
UTC 2024-02-21 06:05:10.539
Mean = 1574.021
σ = 44.176
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1568.499
max = mean + 0.75 σ = 1607.154
Moon angle =4.3°
Moon phase =90.36%
Azimuth =245.38°
Elevation =82.01°
Hour Angle =00:32:56.75°
Wind speed =12.07 km/hr = 7.5 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr052101 (YZ Cnc, I filter)
UTC 2024-02-21 06:06:17.289
Mean = 1296.227
σ = 27.100
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1292.84
max = mean + 0.75 σ = 1316.552
Moon angle =4.29°
Moon phase =90.37%
Azimuth =246.22°
Elevation =81.79°
Hour Angle =00:34:03.93°
Wind speed =11.59 km/hr = 7.2 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr052105 (YZ Cnc, G filter)
UTC 2024-02-21 06:07:18.640
Mean = 1652.342
σ = 49.030
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1646.213
max = mean + 0.75 σ = 1689.115
Moon angle =4.29°
Moon phase =90.37%
Azimuth =246.94°
Elevation =81.59°
Hour Angle =00:35:05.10°
Wind speed =11.27 km/hr = 7.0 miles/hr
Wind Direction =180.0° E of N
0
500
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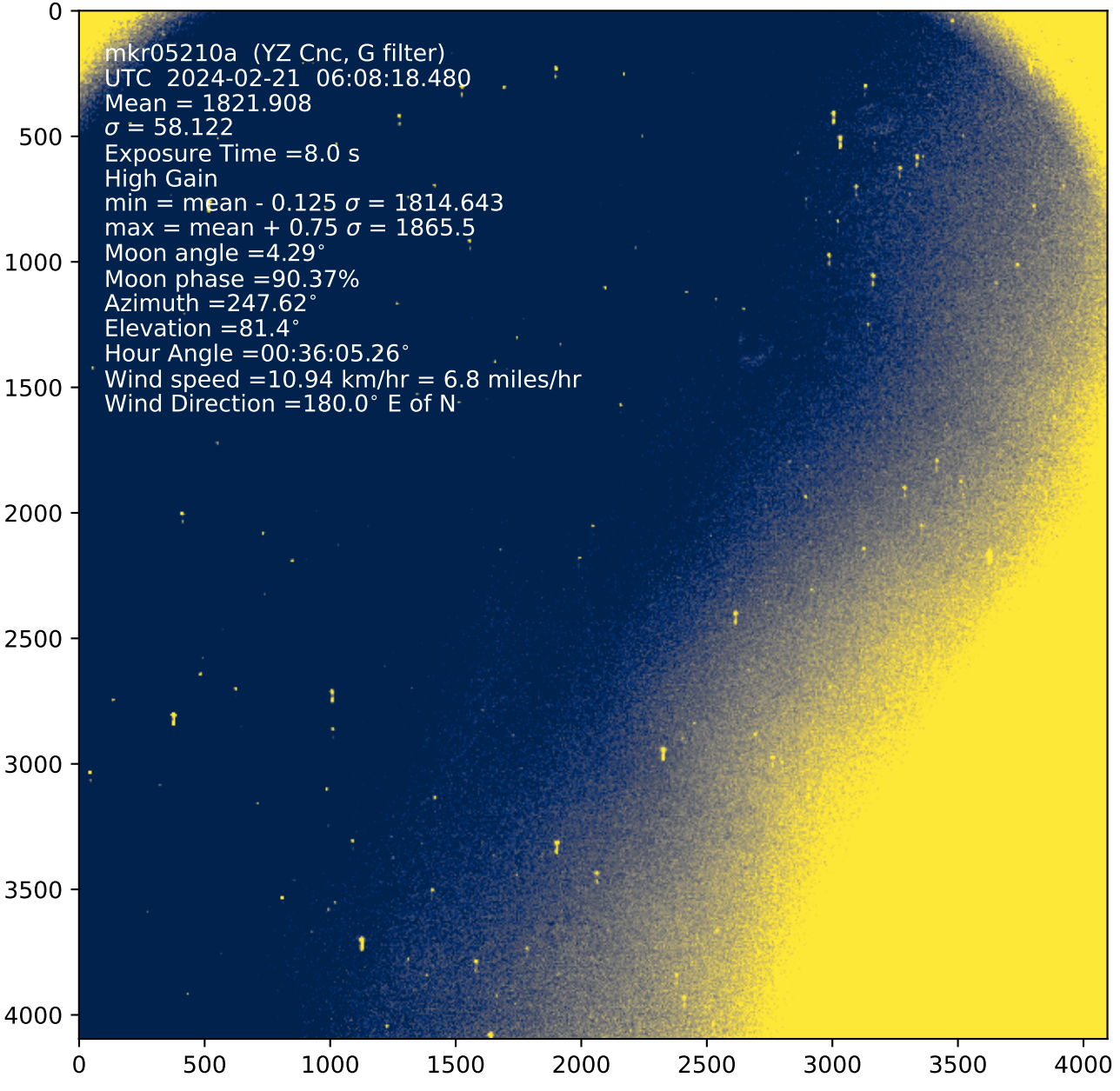
2000
2500
3000
3500
4000


mkr05210a (YZ Cnc, G filter)
UTC 2024-02-21 06:08:18.480
Mean = 1821.908
σ = 58.122
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1814.643
max = mean + 0.75 σ = 1865.5
Moon angle =4.29°
Moon phase =90.37%
Azimuth =247.62°
Elevation =81.4°
Hour Angle =00:36:05.26°
Wind speed =10.94 km/hr = 6.8 miles/hr
Wind Direction =180.0° E of N
0
500
1000
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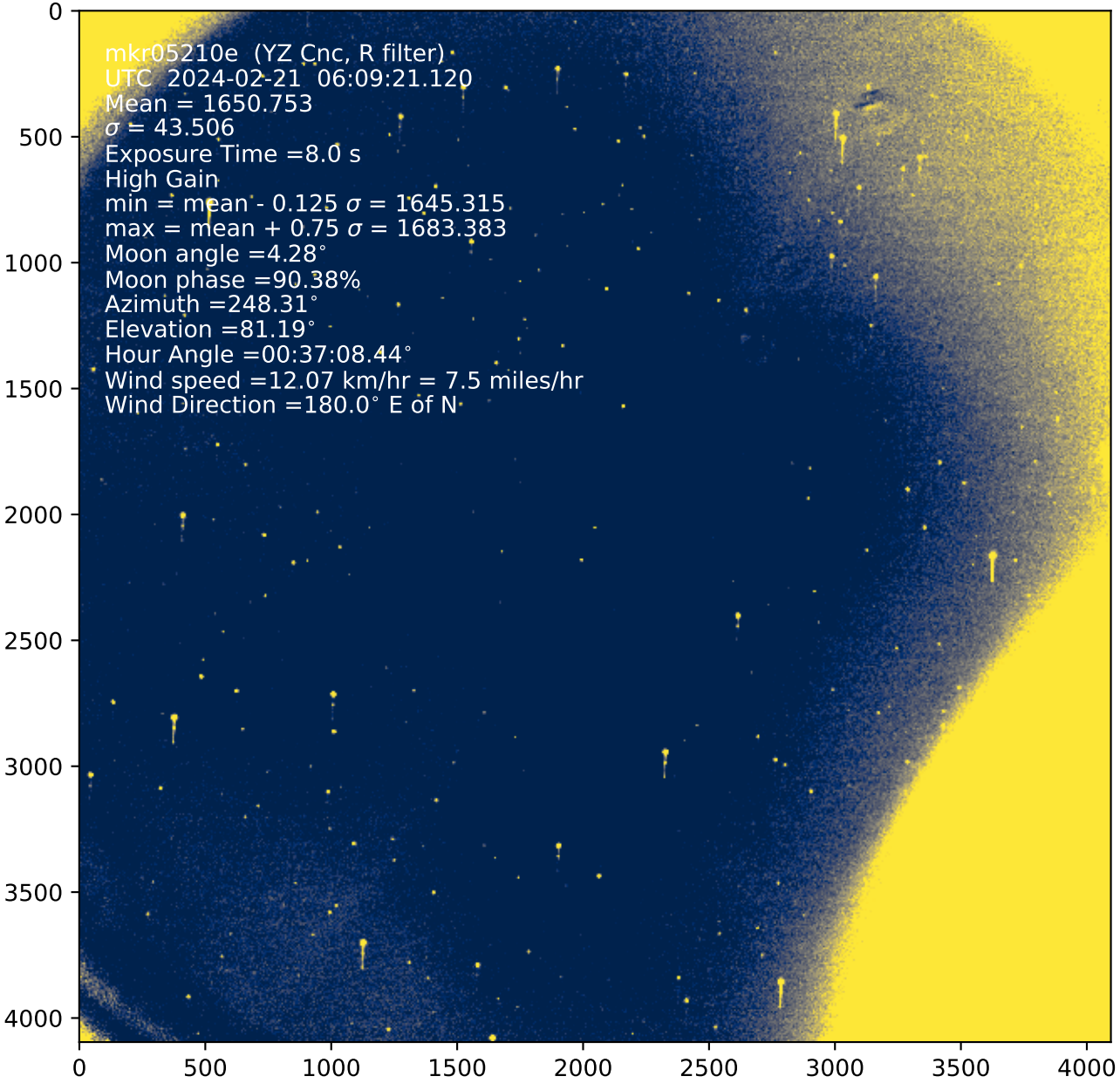
2000
2500
3000
3500
4000


mkr05210e (YZ Cnc, R filter)
UTC 2024-02-21 06:09:21.120
Mean = 1650.753
σ = 43.506
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1645.315
max = mean + 0.75 σ = 1683.383
Moon angle =4.28°
Moon phase =90.38%
Azimuth =248.31°
Elevation =81.19°
Hour Angle =00:37:08.44°
Wind speed =12.07 km/hr = 7.5 miles/hr
Wind Direction =180.0° E of N
0
500
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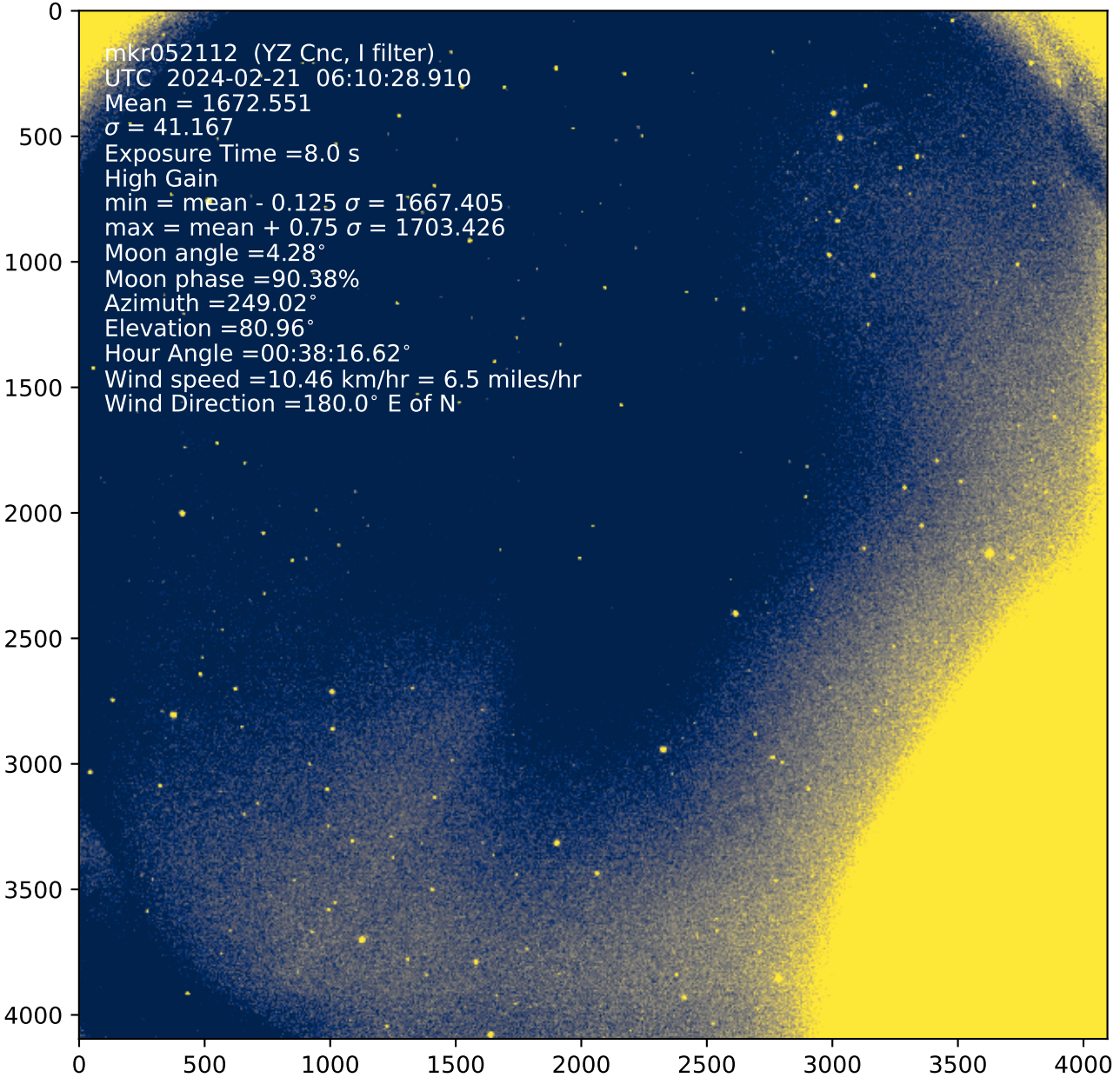
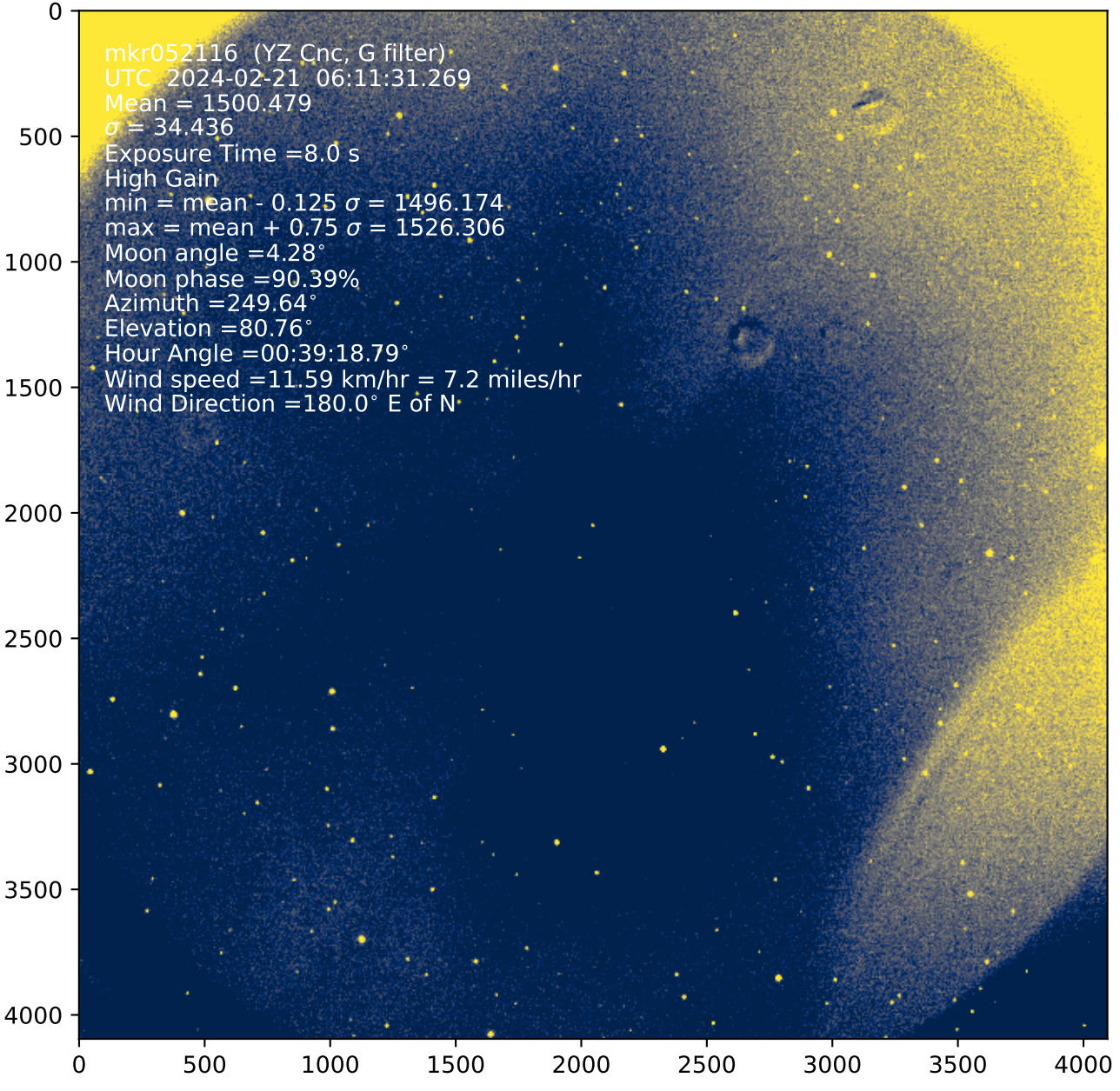
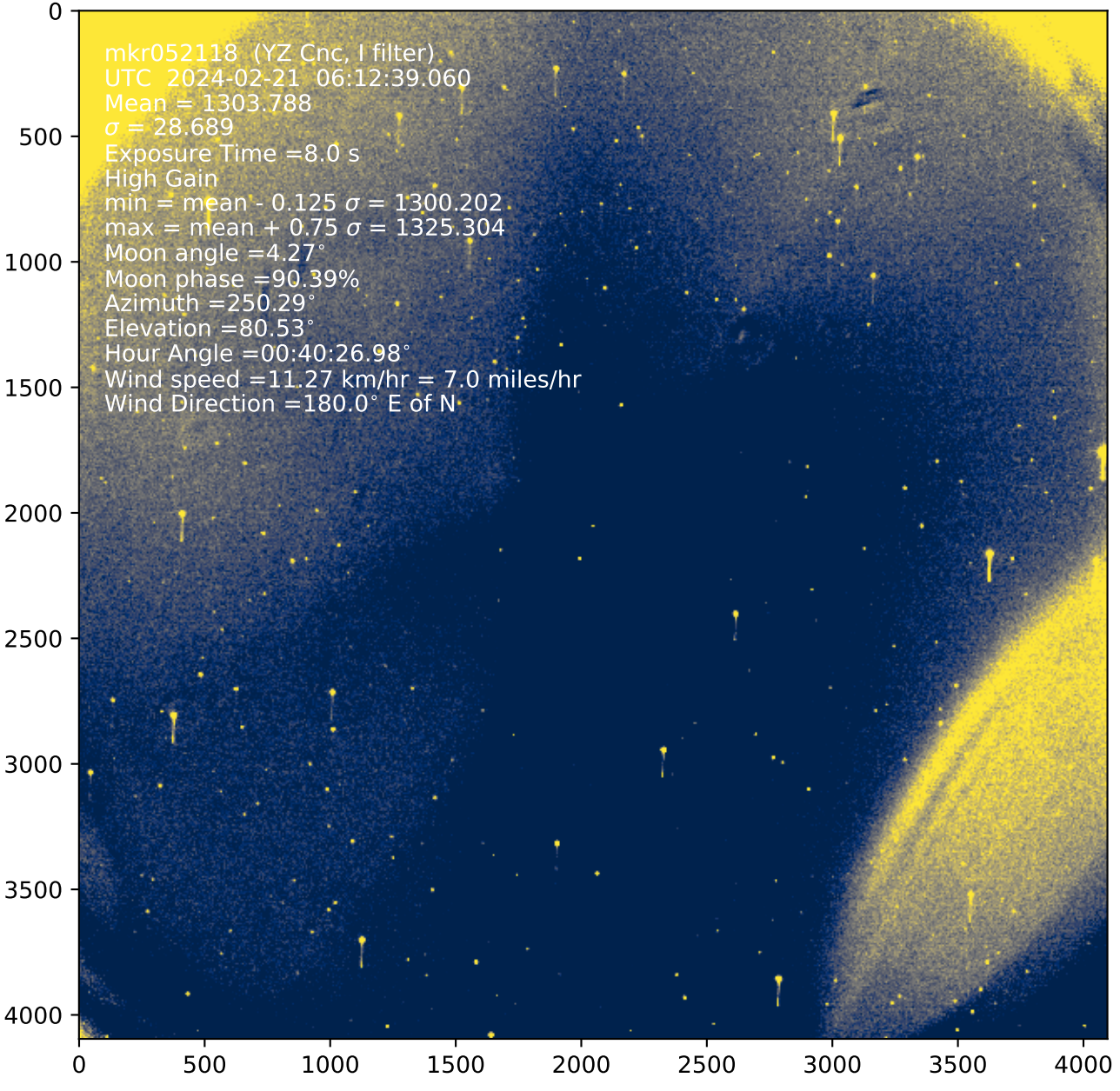
2000
2500
3000
3500
4000


mkr052112 (YZ Cnc, I filter)
UTC 2024-02-21 06:10:28.910
Mean = 1672.551
σ = 41.167
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1667.405
max = mean + 0.75 σ = 1703.426
Moon angle =4.28°
Moon phase =90.38%
Azimuth =249.02°
Elevation =80.96°
Hour Angle =00:38:16.62°
Wind speed =10.46 km/hr = 6.5 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr052116 (YZ Cnc, G filter)
UTC 2024-02-21 06:11:31.269
Mean = 1500.479
σ = 34.436
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1496.174
max = mean + 0.75 σ = 1526.306
Moon angle =4.28°
Moon phase =90.39%
Azimuth =249.64°
Elevation =80.76°
Hour Angle =00:39:18.79°
Wind speed =11.59 km/hr = 7.2 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr052118 (YZ Cnc, I filter)
UTC 2024-02-21 06:12:39.060
Mean = 1303.788
σ = 28.689
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1300.202
max = mean + 0.75 σ = 1325.304
Moon angle =4.27°
Moon phase =90.39%
Azimuth =250.29°
Elevation =80.53°
Hour Angle =00:40:26.98°
Wind speed =11.27 km/hr = 7.0 miles/hr
Wind Direction =180.0° E of N
0
500
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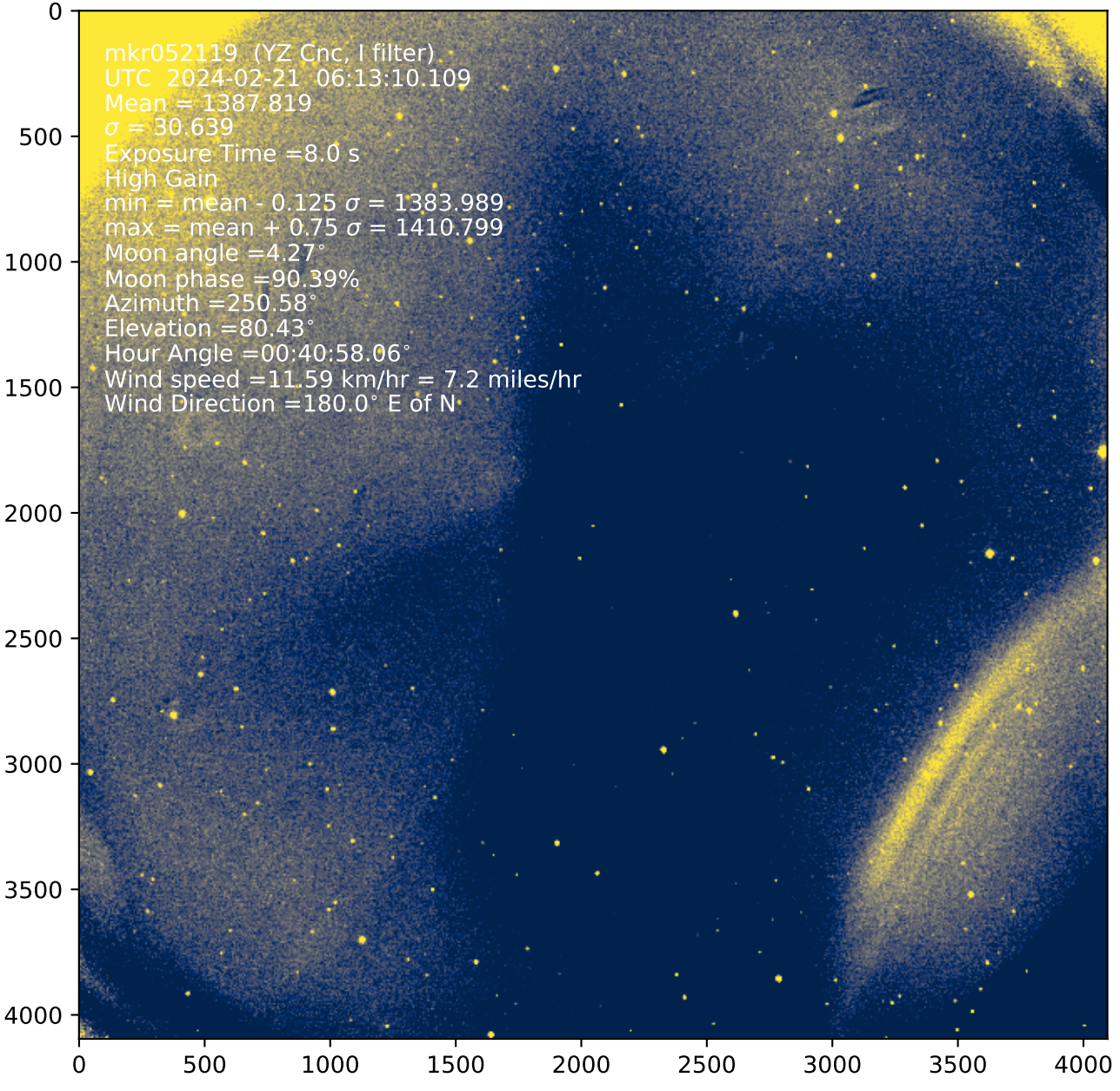
2000
2500
3000
3500
4000


mkr052119 (YZ Cnc, I filter)
UTC 2024-02-21 06:13:10.109
Mean = 1387.819
σ = 30.639
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1383.989
max = mean + 0.75 σ = 1410.799
Moon angle =4.27°
Moon phase =90.39%
Azimuth =250.58°
Elevation =80.43°
Hour Angle =00:40:58.06°
Wind speed =11.59 km/hr = 7.2 miles/hr
Wind Direction =180.0° E of N
0
500
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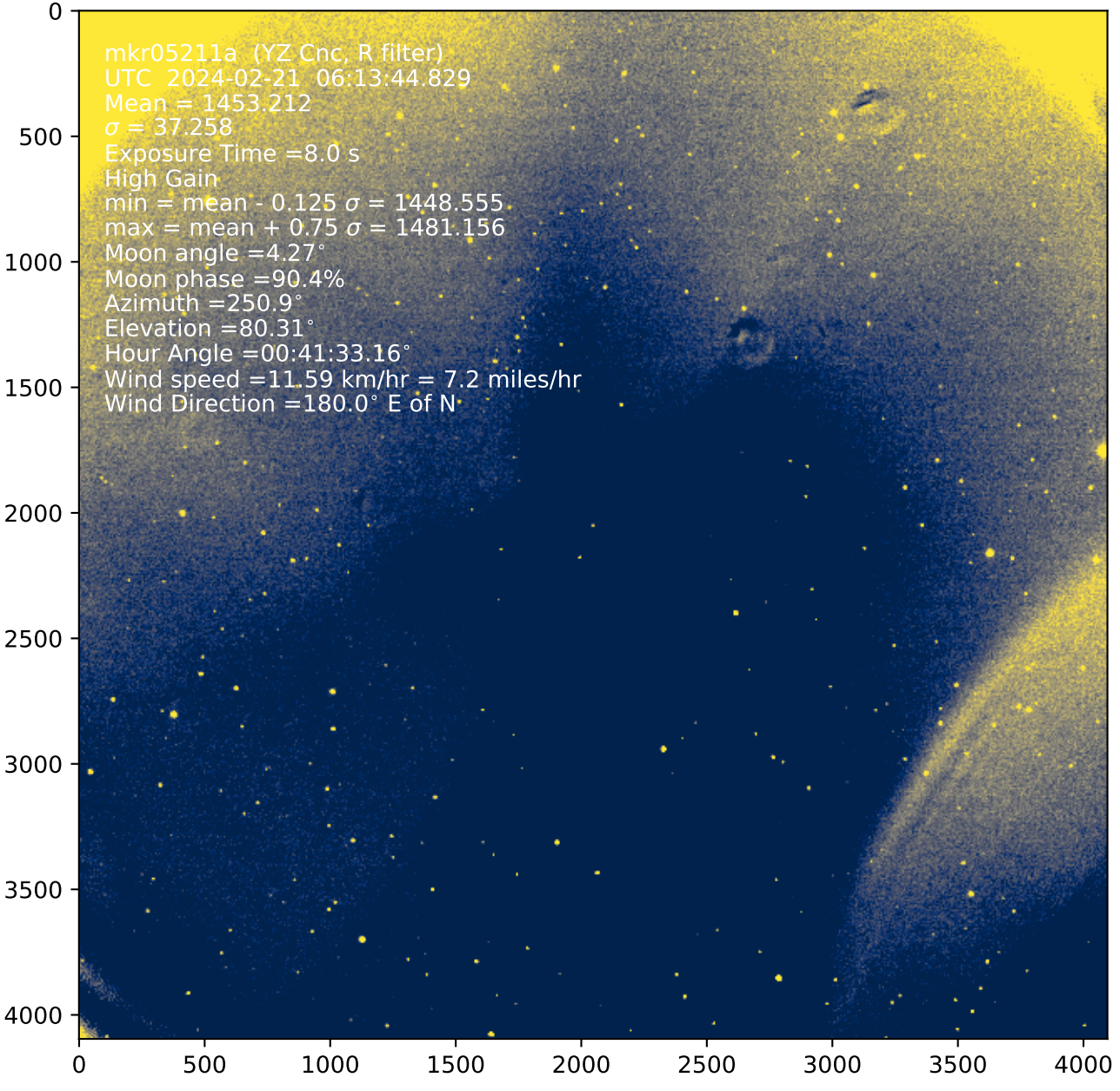
1500
2000
2500
3000
3500
4000


mkr05211a (YZ Cnc, R filter)
UTC 2024-02-21 06:13:44.829
Mean = 1453.212
σ = 37.258
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1448.555
max = mean + 0.75 σ = 1481.156
Moon angle =4.27°
Moon phase =90.4%
Azimuth =250.9°
Elevation =80.31°
Hour Angle =00:41:33.16°
Wind speed =11.59 km/hr = 7.2 miles/hr
Wind Direction =180.0° E of N
0
500
1000
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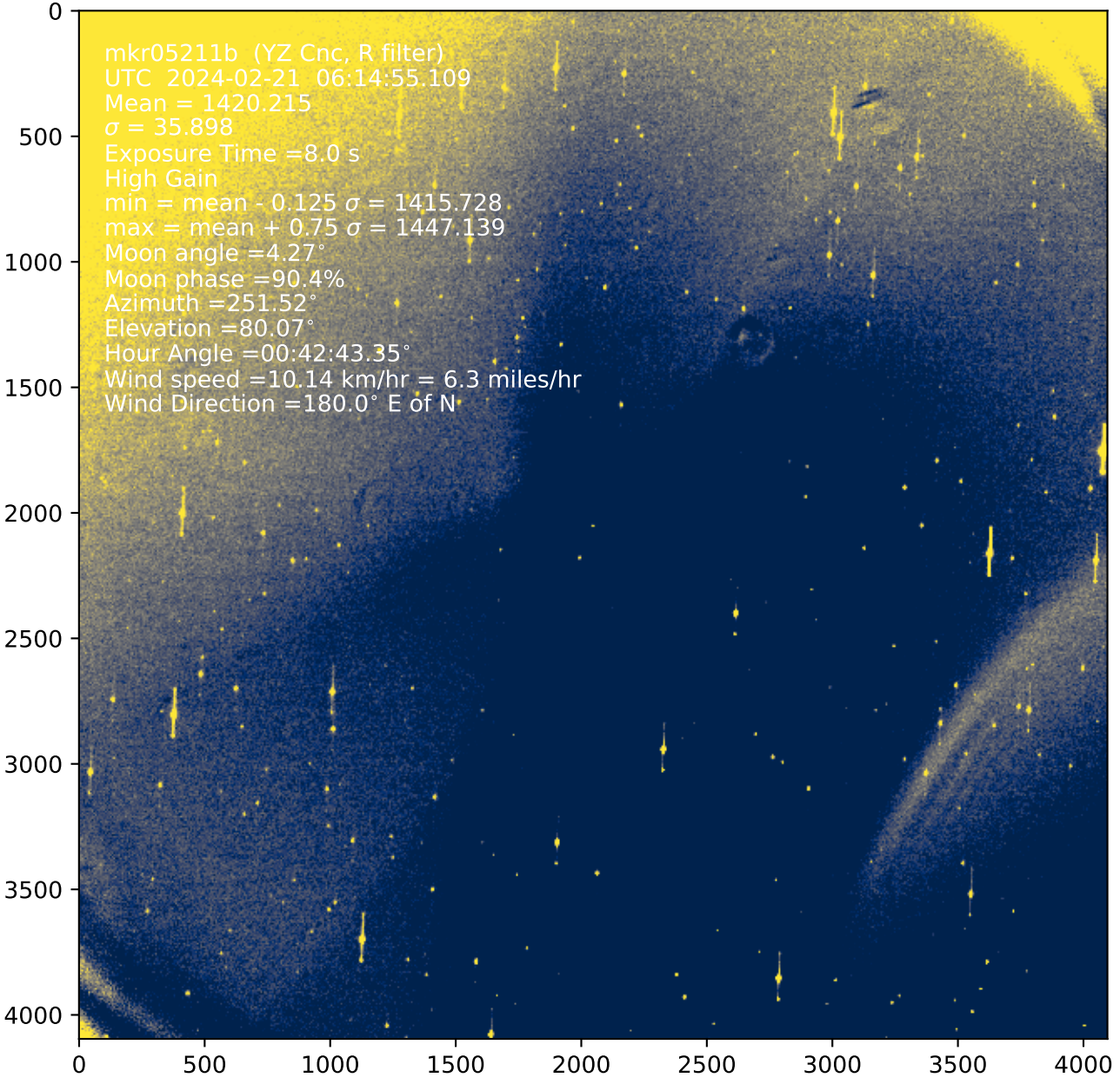
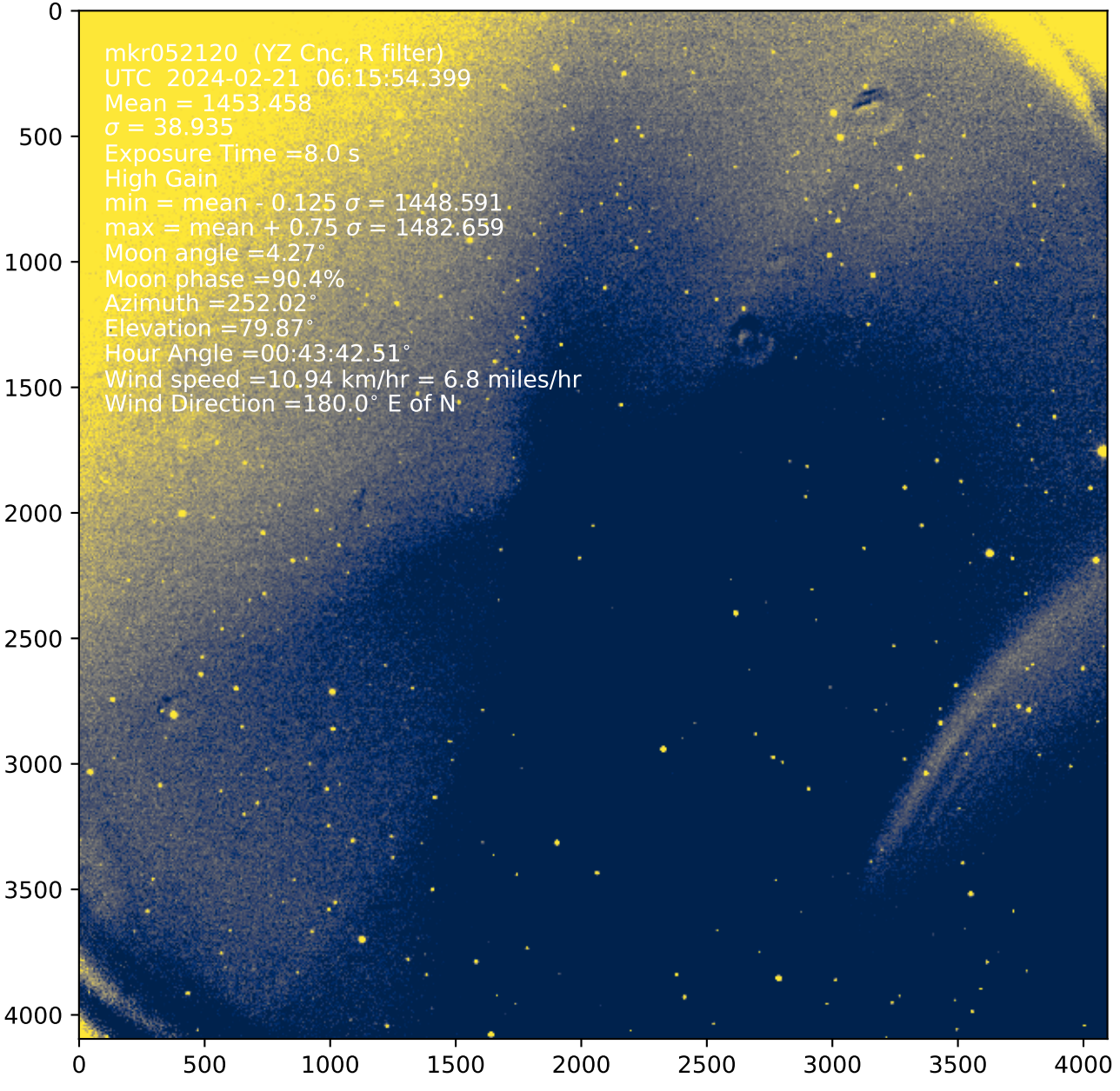
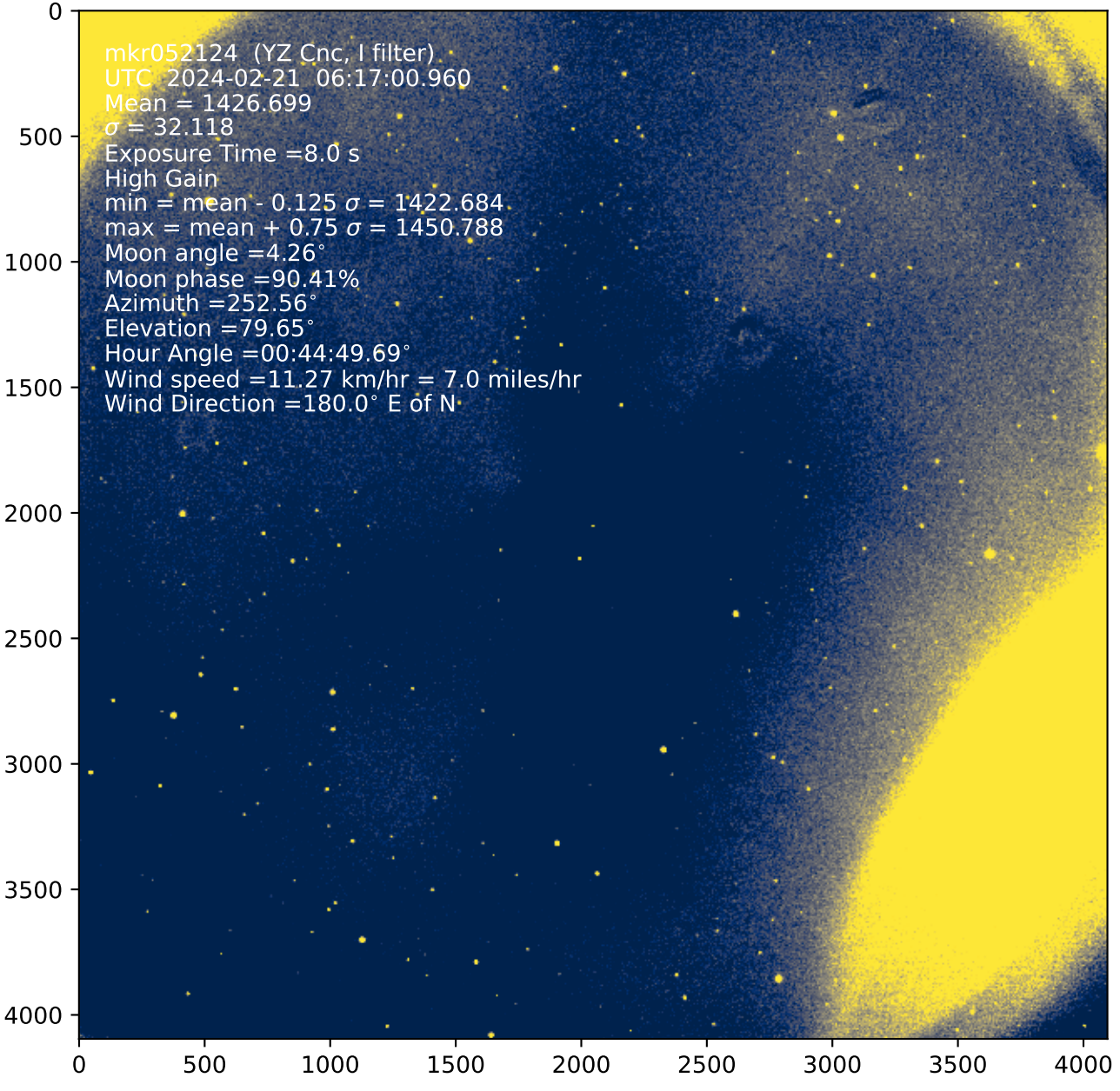
2000
2500
3000
3500
4000


mkr05211b (YZ Cnc, R filter)
UTC 2024-02-21 06:14:55.109
Mean = 1420.215
σ = 35.898
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1415.728
max = mean + 0.75 σ = 1447.139
Moon angle =4.27°
Moon phase =90.4%
Azimuth =251.52°
Elevation =80.07°
Hour Angle =00:42:43.35°
Wind speed =10.14 km/hr = 6.3 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr052120 (YZ Cnc, R filter)
UTC 2024-02-21 06:15:54.399
Mean = 1453.458
σ = 38.935
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1448.591
max = mean + 0.75 σ = 1482.659
Moon angle =4.27°
Moon phase =90.4%
Azimuth =252.02°
Elevation =79.87°
Hour Angle =00:43:42.51°
Wind speed =10.94 km/hr = 6.8 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr052124 (YZ Cnc, I filter)
UTC 2024-02-21 06:17:00.960
Mean = 1426.699
σ = 32.118
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1422.684
max = mean + 0.75 σ = 1450.788
Moon angle =4.26°
Moon phase =90.41%
Azimuth =252.56°
Elevation =79.65°
Hour Angle =00:44:49.69°
Wind speed =11.27 km/hr = 7.0 miles/hr
Wind Direction =180.0° E of N
0
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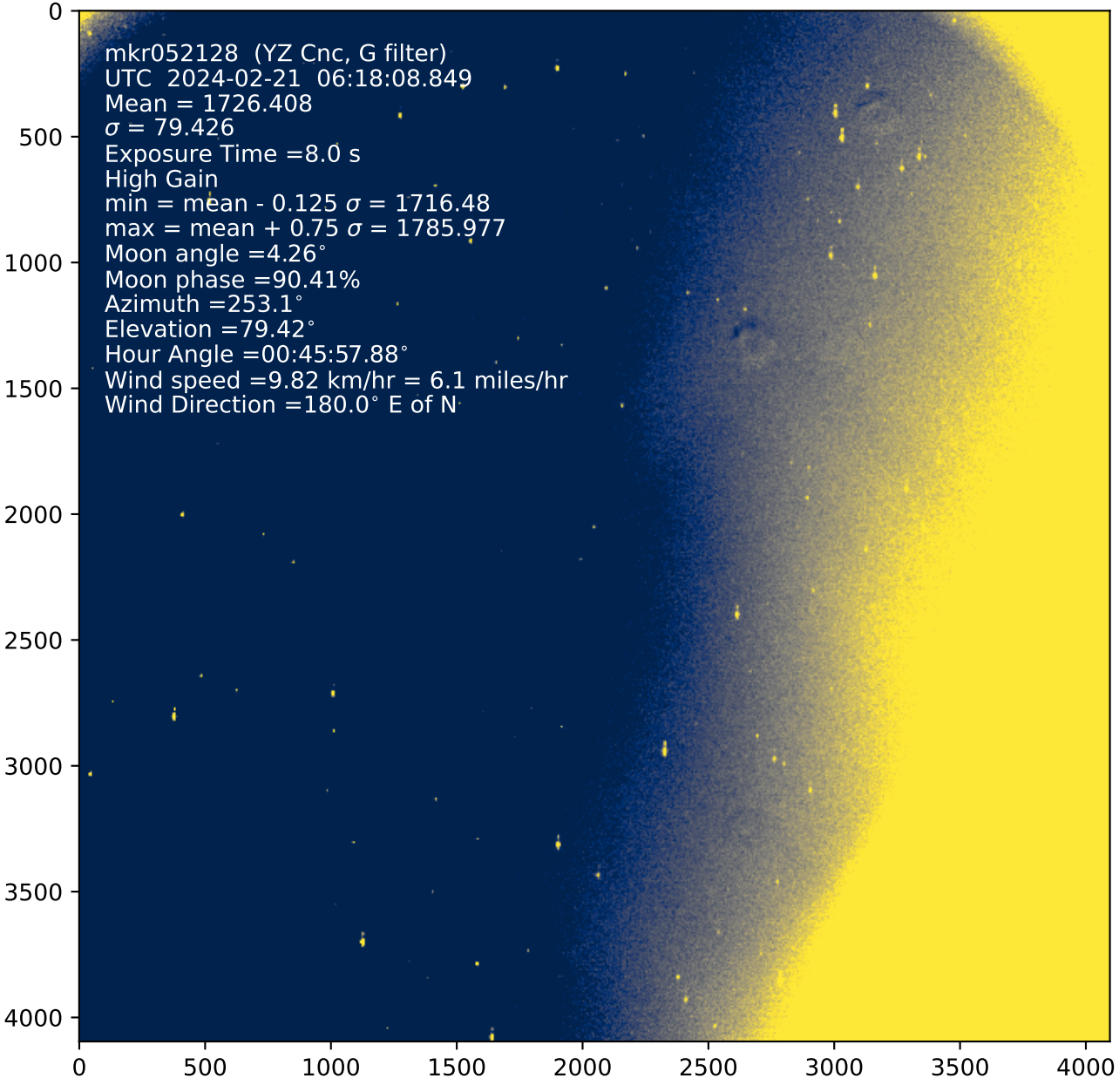
2500
3000
3500
4000


mkr052128 (YZ Cnc, G filter)
UTC 2024-02-21 06:18:08.849
Mean = 1726.408
σ = 79.426
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1716.48
max = mean + 0.75 σ = 1785.977
Moon angle =4.26°
Moon phase =90.41%
Azimuth =253.1°
Elevation =79.42°
Hour Angle =00:45:57.88°
Wind speed =9.82 km/hr = 6.1 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
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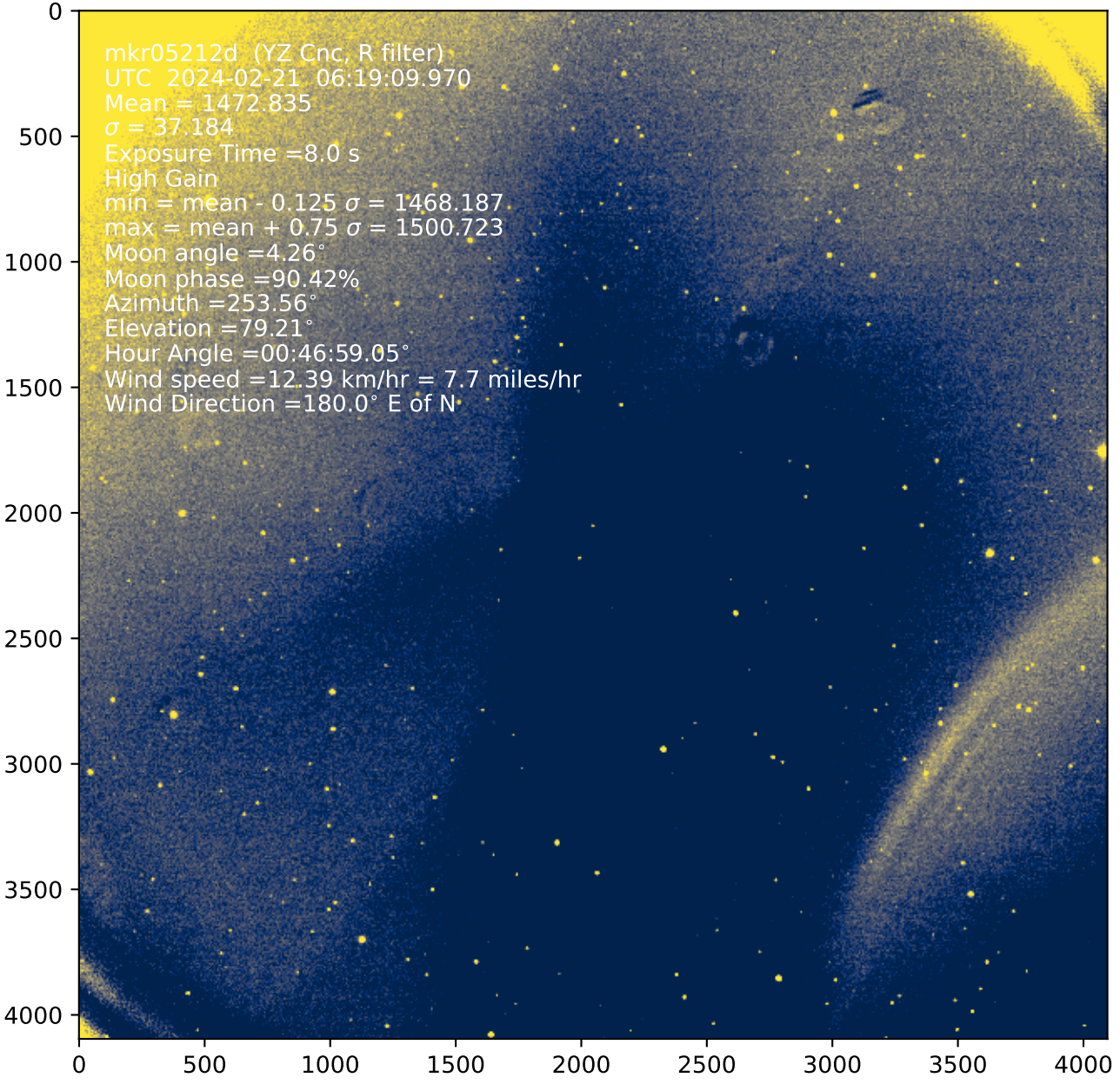
2500
3000
3500
4000


mkr05212d (YZ Cnc, R filter)
UTC 2024-02-21 06:19:09.970
Mean = 1472.835
σ = 37.184
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1468.187
max = mean + 0.75 σ = 1500.723
Moon angle =4.26°
Moon phase =90.42%
Azimuth =253.56°
Elevation =79.21°
Hour Angle =00:46:59.05°
Wind speed =12.39 km/hr = 7.7 miles/hr
Wind Direction =180.0° E of N
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3500
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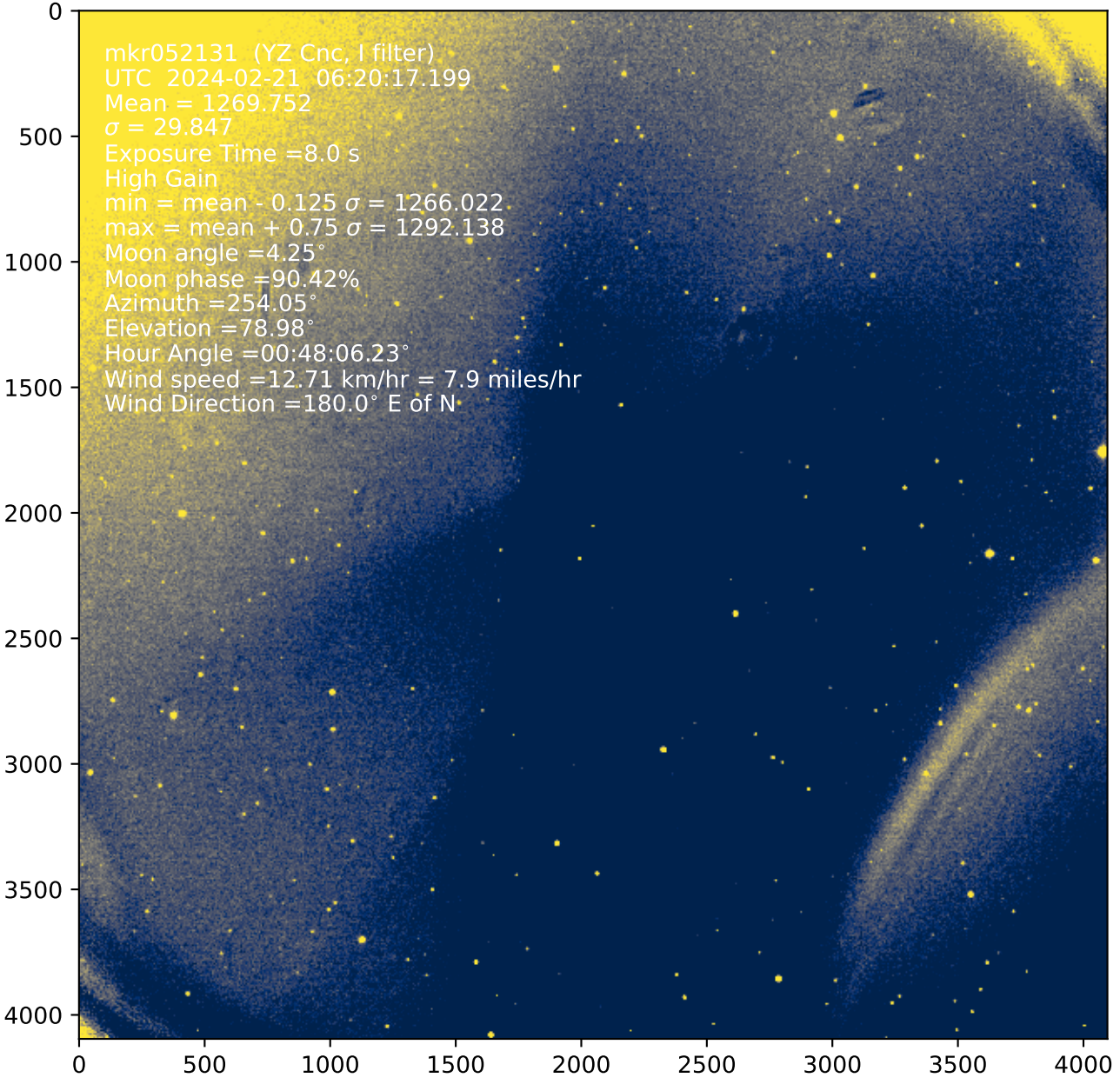
mkr052131 (YZ Cnc, I filter)
UTC 2024-02-21 06:20:17.199
Mean = 1269.752
σ = 29.847
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1266.022
max = mean + 0.75 σ = 1292.138
Moon angle =4.25°
Moon phase =90.42%
Azimuth =254.05°
Elevation =78.98°
Hour Angle =00:48:06.23°
Wind speed =12.71 km/hr = 7.9 miles/hr
Wind Direction =180.0° E of N
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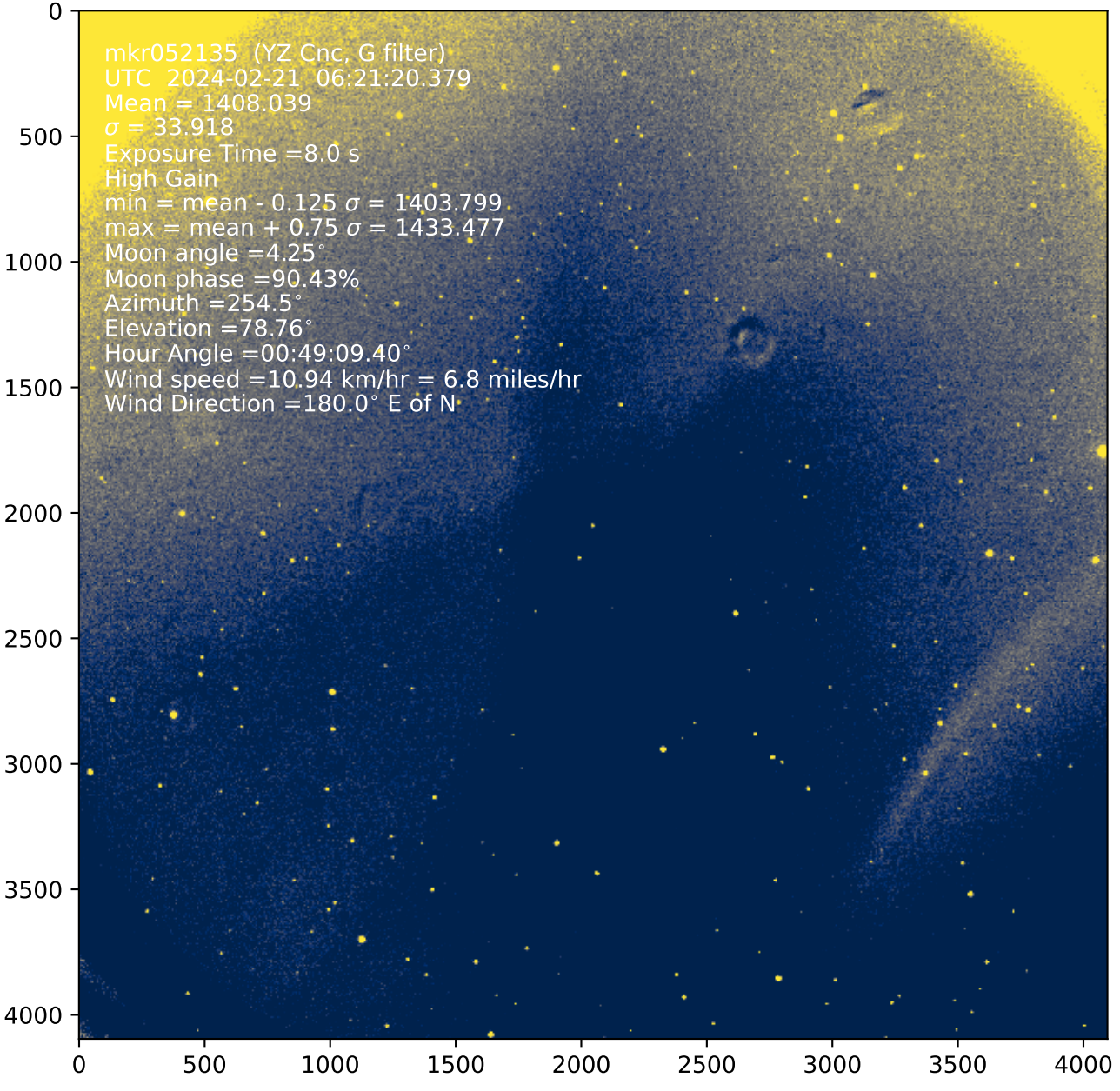
mkr052135 (YZ Cnc, G filter)
UTC 2024-02-21 06:21:20.379
Mean = 1408.039
σ = 33.918
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1403.799
max = mean + 0.75 σ = 1433.477
Moon angle =4.25°
Moon phase =90.43%
Azimuth =254.5°
Elevation =78.76°
Hour Angle =00:49:09.40°
Wind speed =10.94 km/hr = 6.8 miles/hr
Wind Direction =180.0° E of N
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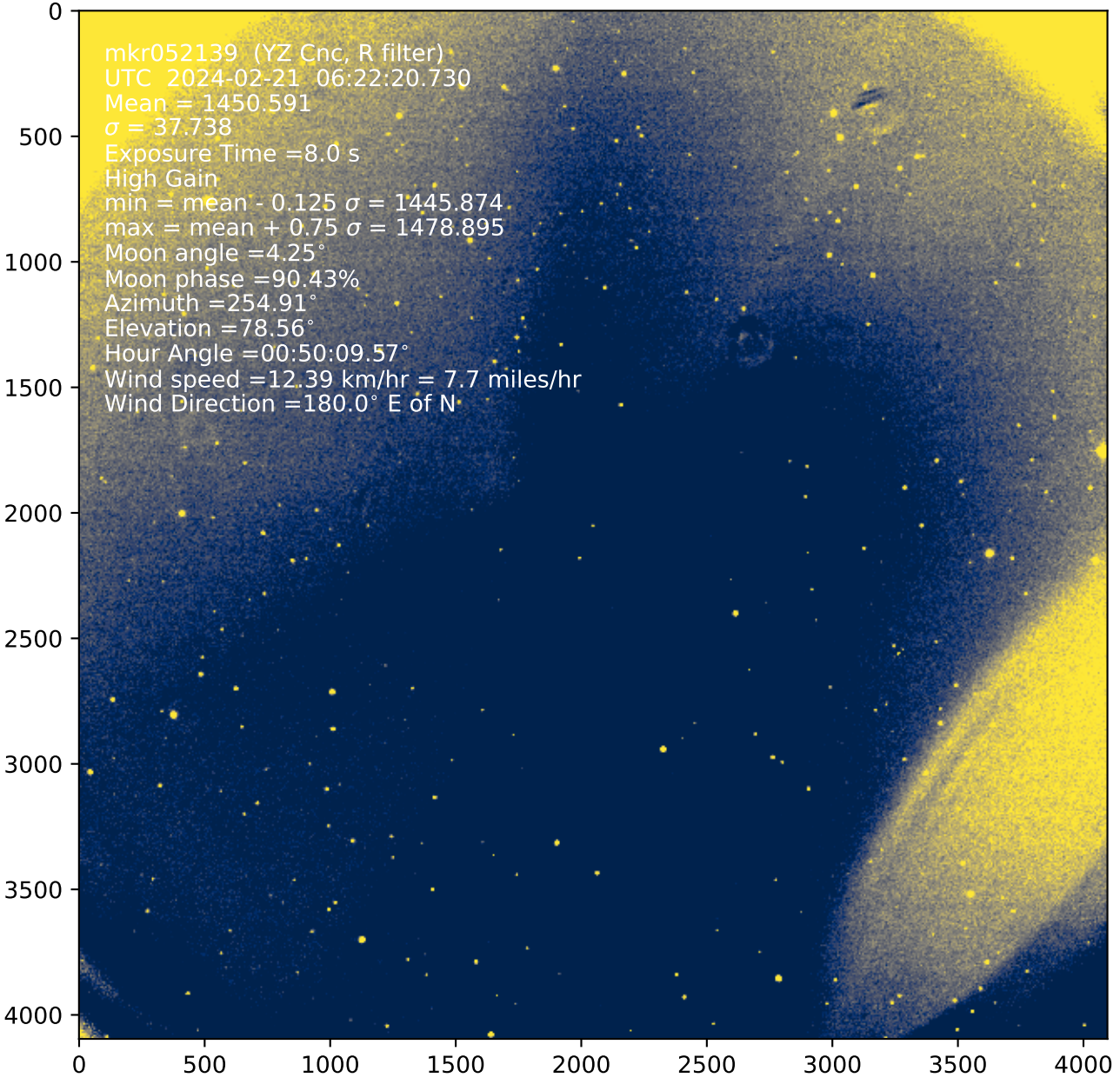
4000


mkr052139 (YZ Cnc, R filter)
UTC 2024-02-21 06:22:20.730
Mean = 1450.591
σ = 37.738
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1445.874
max = mean + 0.75 σ = 1478.895
Moon angle =4.25°
Moon phase =90.43%
Azimuth =254.91°
Elevation =78.56°
Hour Angle =00:50:09.57°
Wind speed =12.39 km/hr = 7.7 miles/hr
Wind Direction =180.0° E of N
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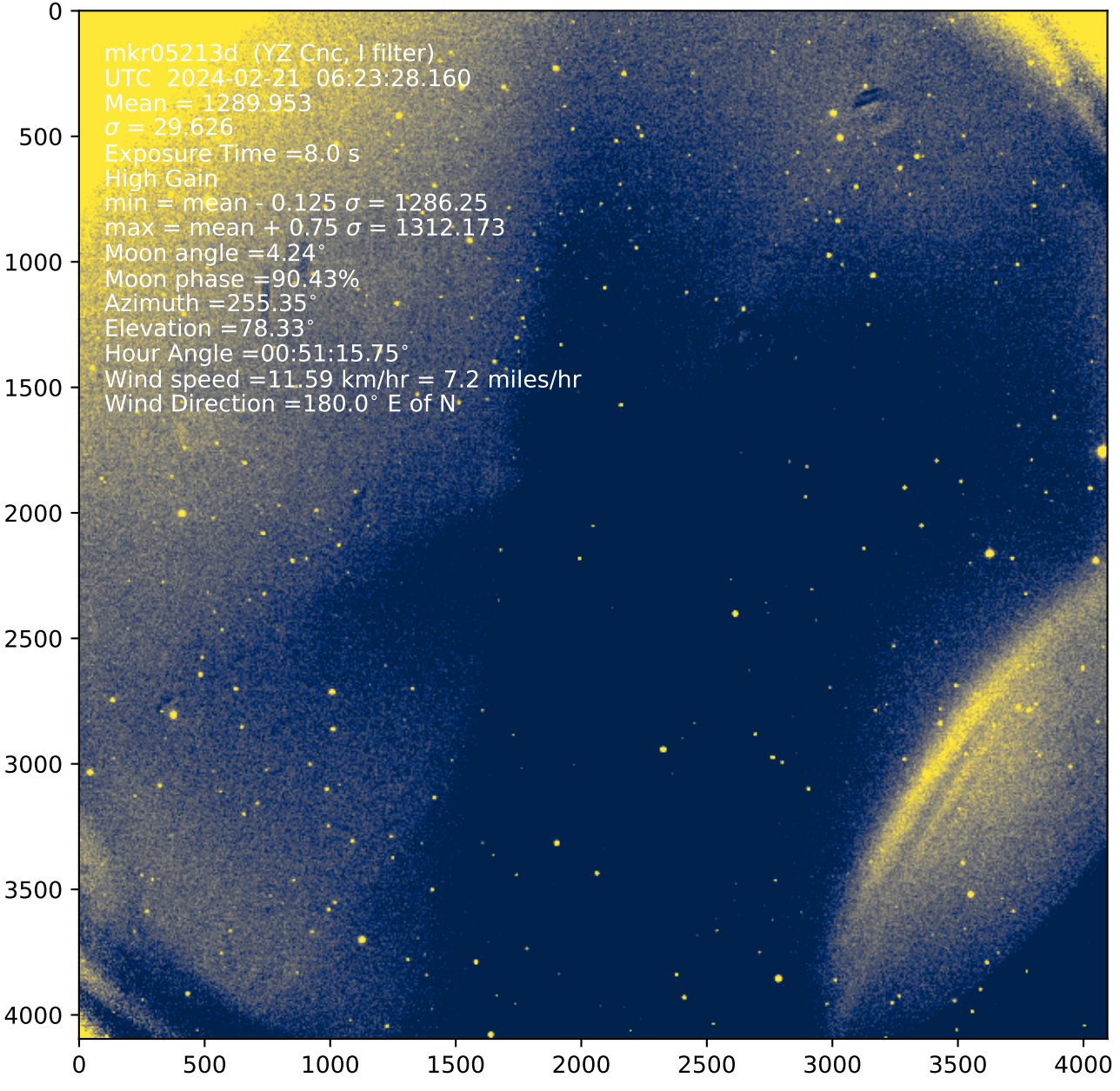
mkr05213d (YZ Cnc, I filter)
UTC 2024-02-21 06:23:28.160
Mean = 1289.953
σ = 29.626
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1286.25
max = mean + 0.75 σ = 1312.173
Moon angle =4.24°
Moon phase =90.43%
Azimuth =255.35°
Elevation =78.33°
Hour Angle =00:51:15.75°
Wind speed =11.59 km/hr = 7.2 miles/hr
Wind Direction =180.0° E of N
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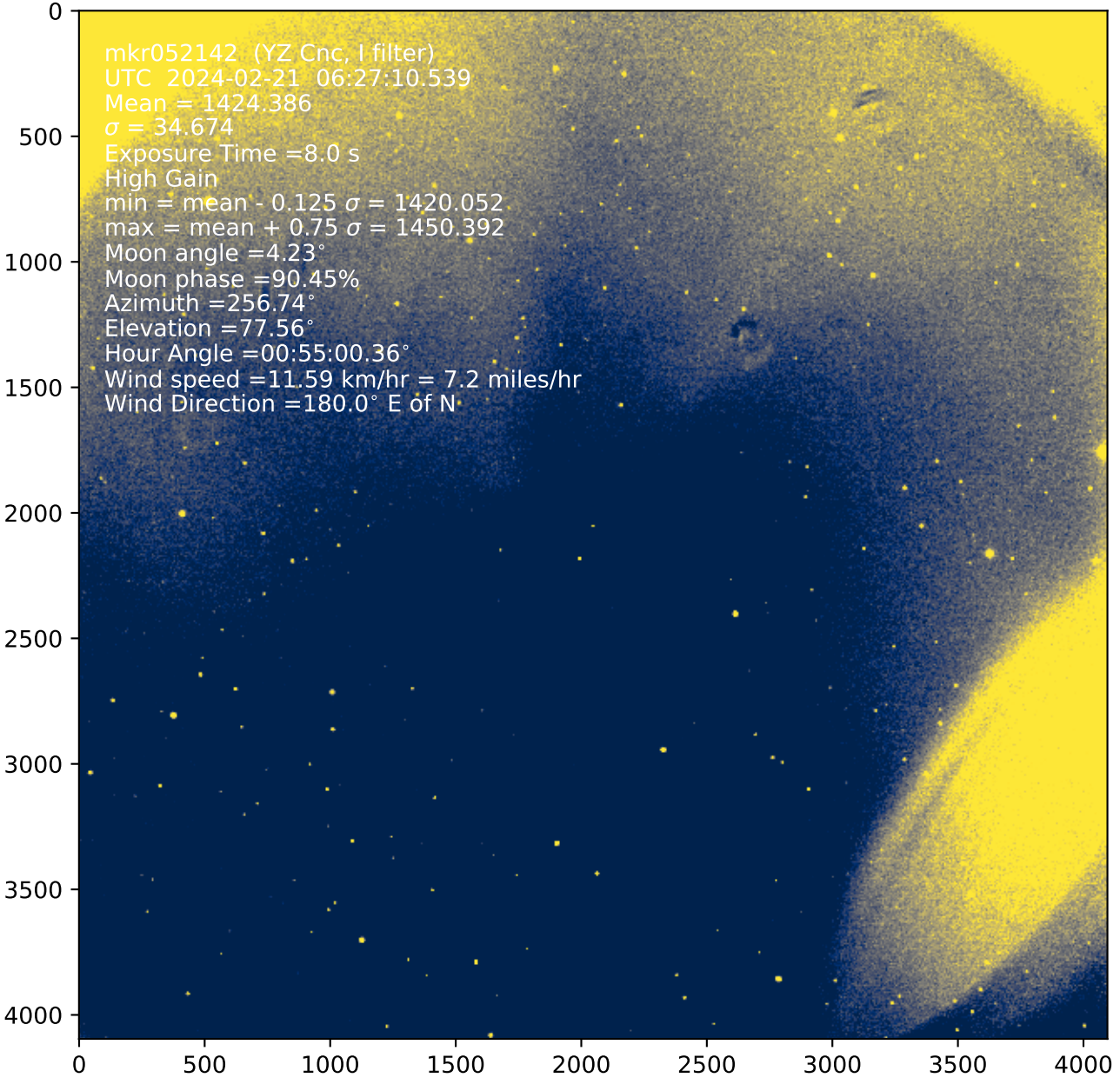
mkr052142 (YZ Cnc, I filter)
UTC 2024-02-21 06:27:10.539
Mean = 1424.386
σ = 34.674
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1420.052
max = mean + 0.75 σ = 1450.392
Moon angle =4.23°
Moon phase =90.45%
Azimuth =256.74°
Elevation =77.56°
Hour Angle =00:55:00.36°
Wind speed =11.59 km/hr = 7.2 miles/hr
Wind Direction =180.0° E of N
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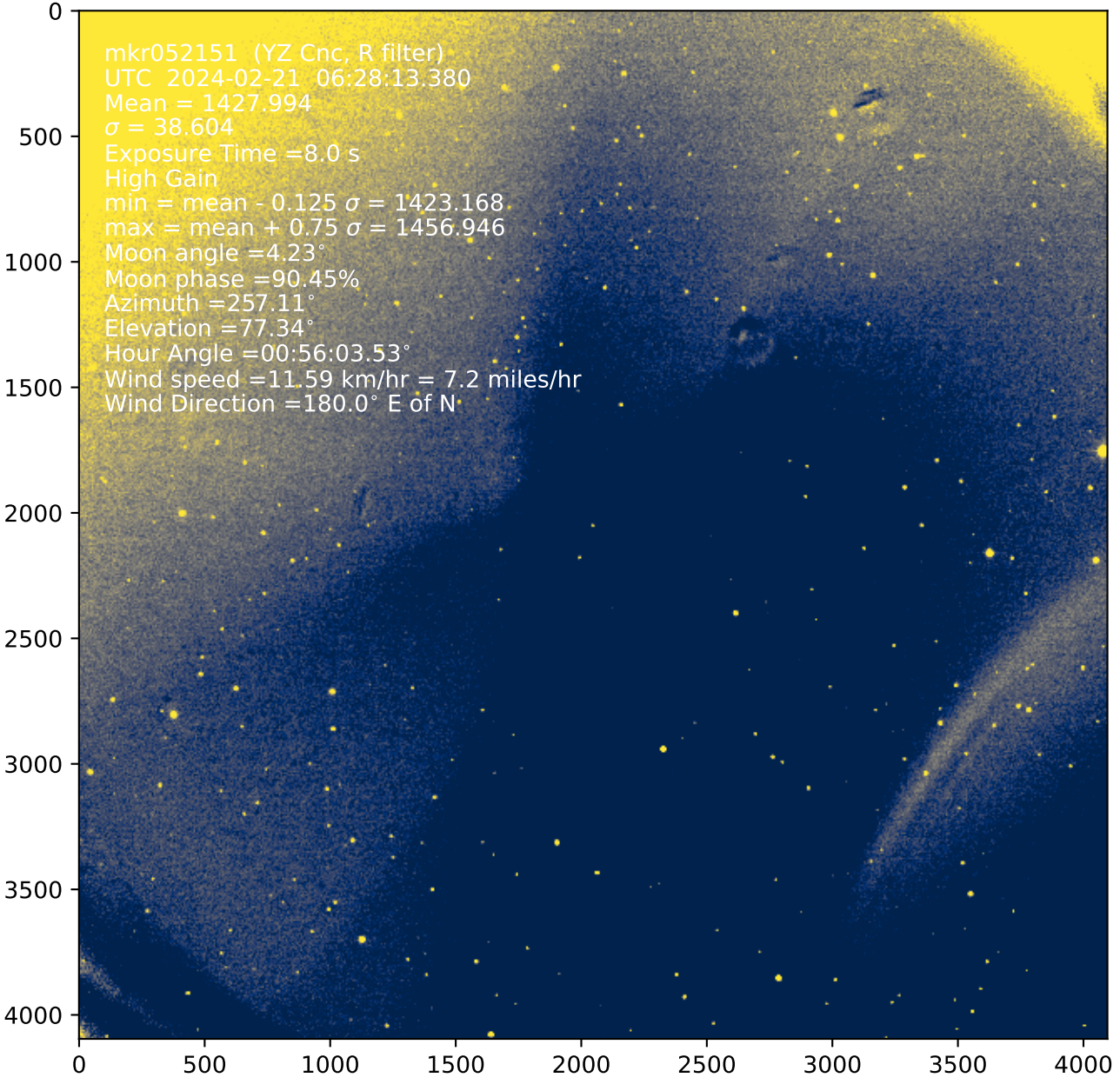
mkr052151 (YZ Cnc, R filter)
UTC 2024-02-21 06:28:13.380
Mean = 1427.994
σ = 38.604
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1423.168
max = mean + 0.75 σ = 1456.946
Moon angle =4.23°
Moon phase =90.45%
Azimuth =257.11°
Elevation =77.34°
Hour Angle =00:56:03.53°
Wind speed =11.59 km/hr = 7.2 miles/hr
Wind Direction =180.0° E of N
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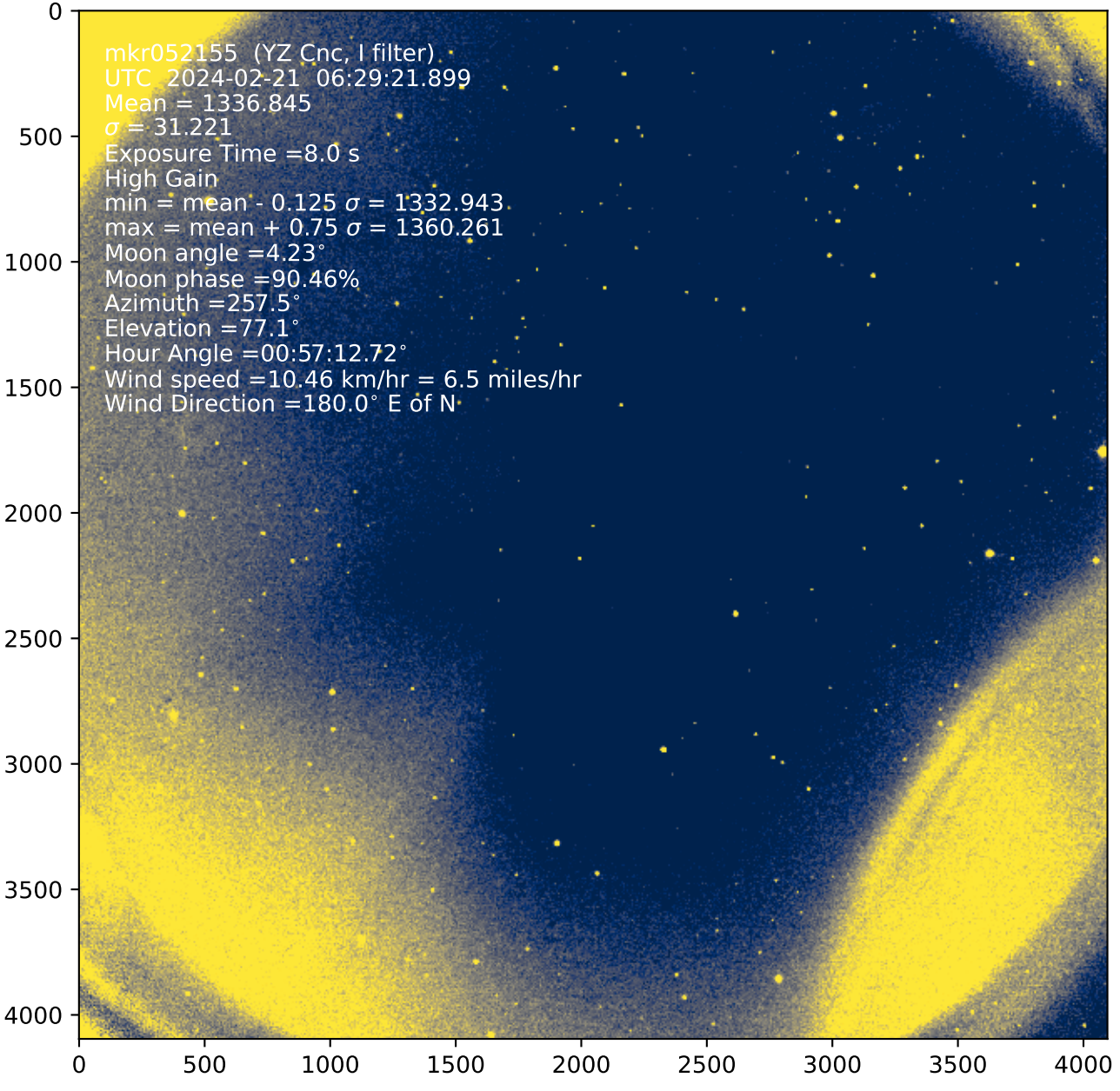
mkr052155 (YZ Cnc, I filter)
UTC 2024-02-21 06:29:21.899
Mean = 1336.845
σ = 31.221
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1332.943
max = mean + 0.75 σ = 1360.261
Moon angle =4.23°
Moon phase =90.46%
Azimuth =257.5°
Elevation =77.1°
Hour Angle =00:57:12.72°
Wind speed =10.46 km/hr = 6.5 miles/hr
Wind Direction =180.0° E of N
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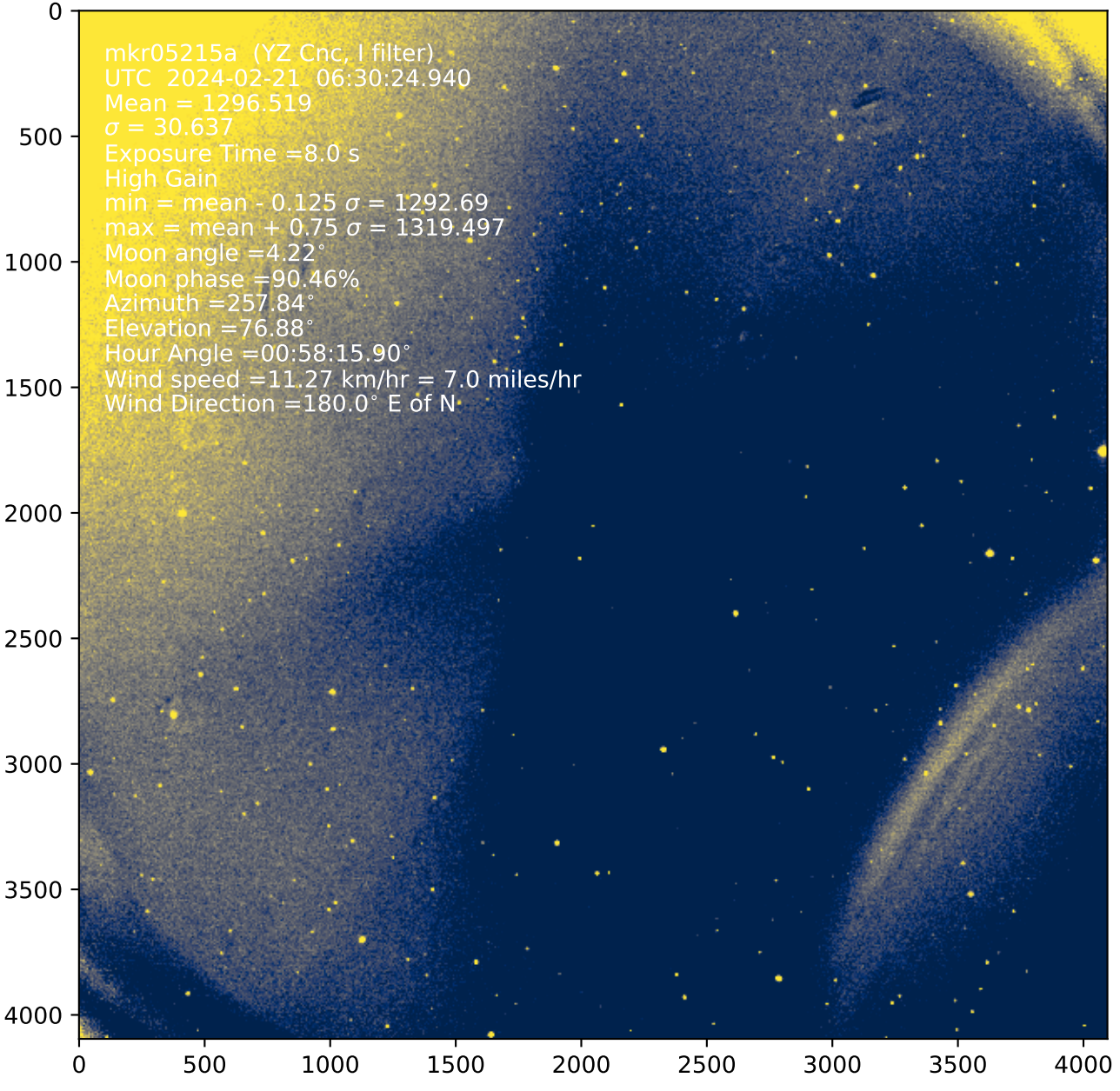
mkr05215a (YZ Cnc, I filter)
UTC 2024-02-21 06:30:24.940
Mean = 1296.519
σ = 30.637
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1292.69
max = mean + 0.75 σ = 1319.497
Moon angle =4.22°
Moon phase =90.46%
Azimuth =257.84°
Elevation =76.88°
Hour Angle =00:58:15.90°
Wind speed =11.27 km/hr = 7.0 miles/hr
Wind Direction =180.0° E of N
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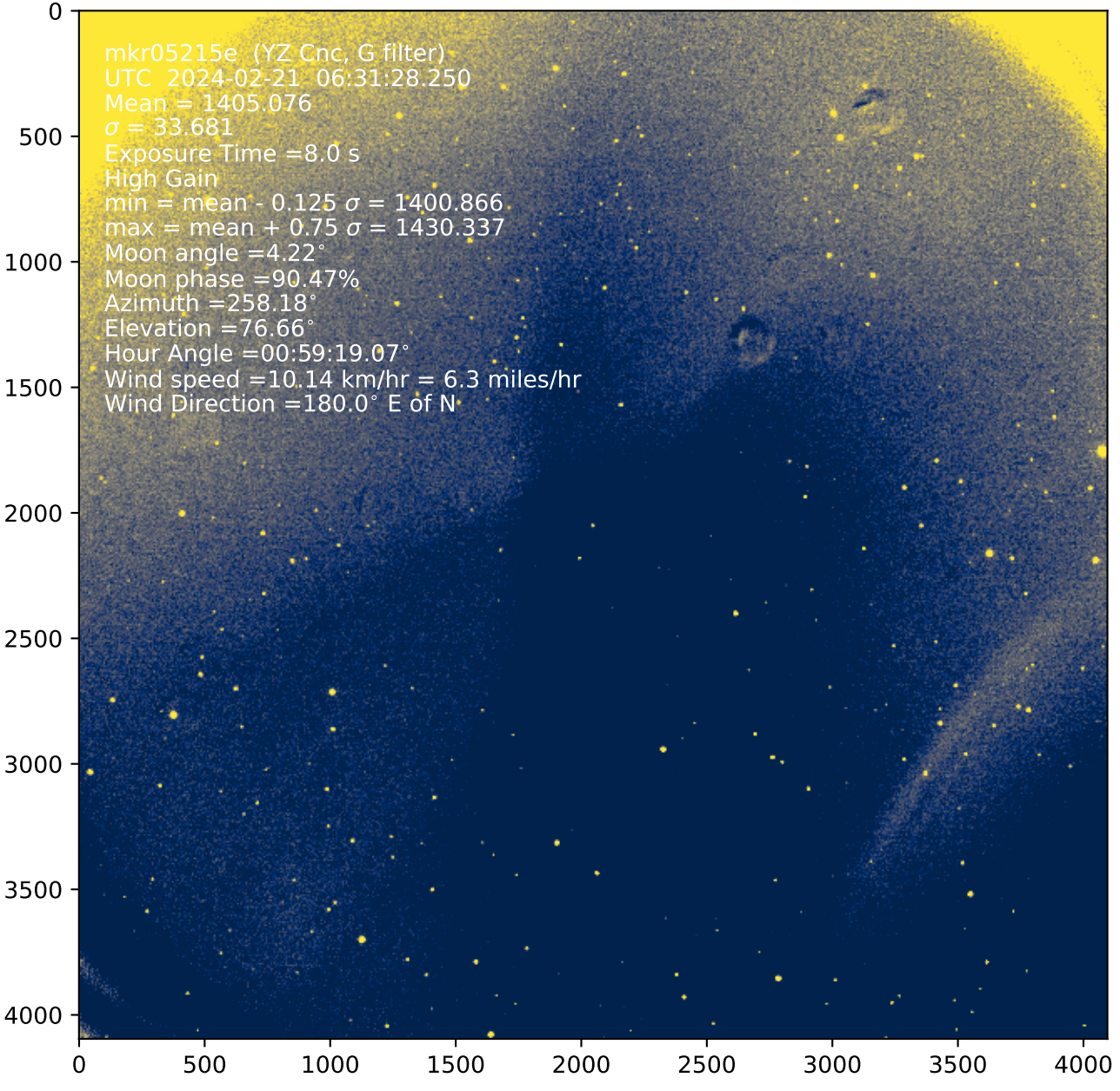
mkr05215e (YZ Cnc, G filter)
UTC 2024-02-21 06:31:28.250
Mean = 1405.076
σ = 33.681
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1400.866
max = mean + 0.75 σ = 1430.337
Moon angle =4.22°
Moon phase =90.47%
Azimuth =258.18°
Elevation =76.66°
Hour Angle =00:59:19.07°
Wind speed =10.14 km/hr = 6.3 miles/hr
Wind Direction =180.0° E of N
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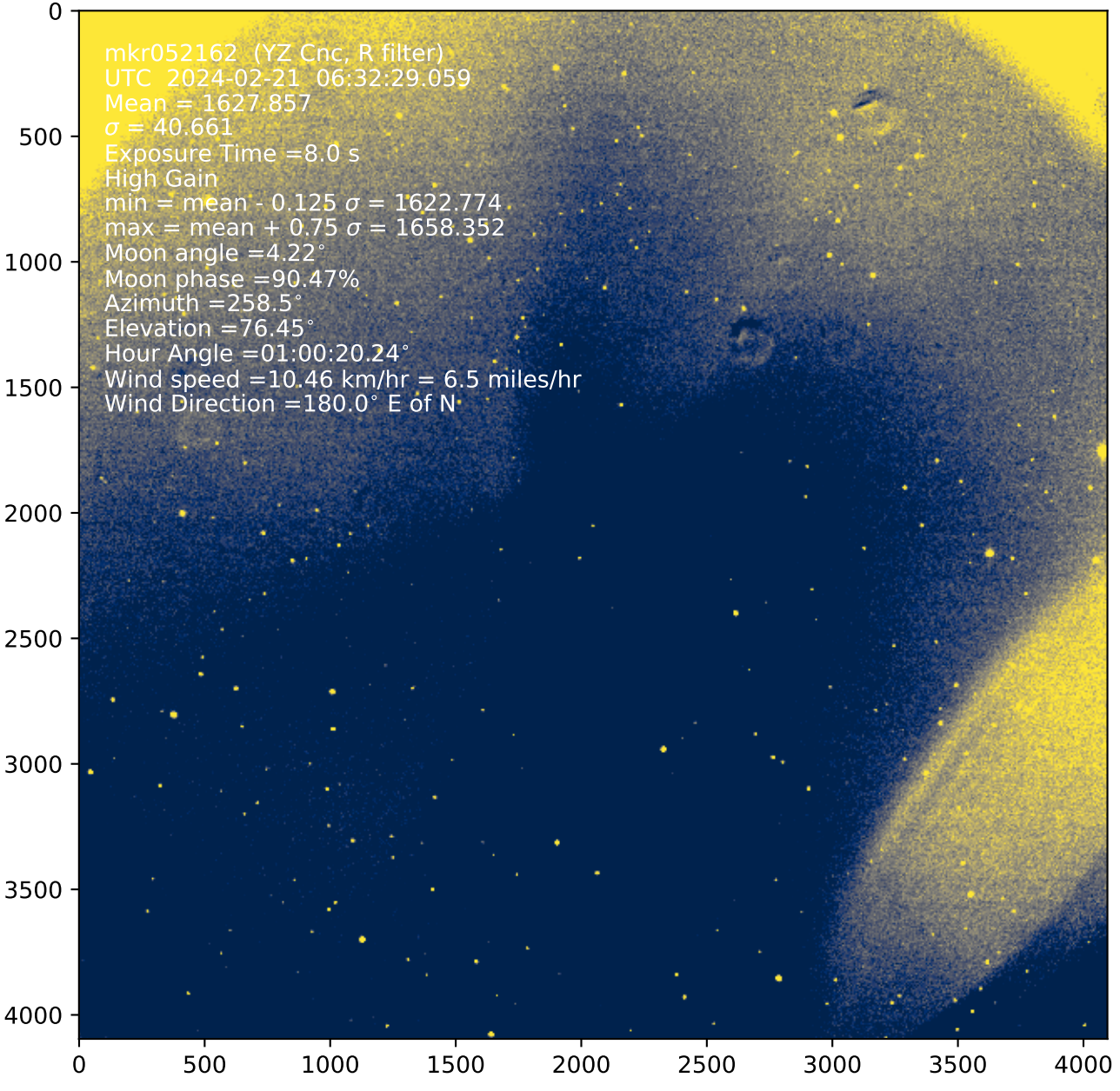
mkr052162 (YZ Cnc, R filter)
UTC 2024-02-21 06:32:29.059
Mean = 1627.857
σ = 40.661
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1622.774
max = mean + 0.75 σ = 1658.352
Moon angle =4.22°
Moon phase =90.47%
Azimuth =258.5°
Elevation =76.45°
Hour Angle =01:00:20.24°
Wind speed =10.46 km/hr = 6.5 miles/hr
Wind Direction =180.0° E of N
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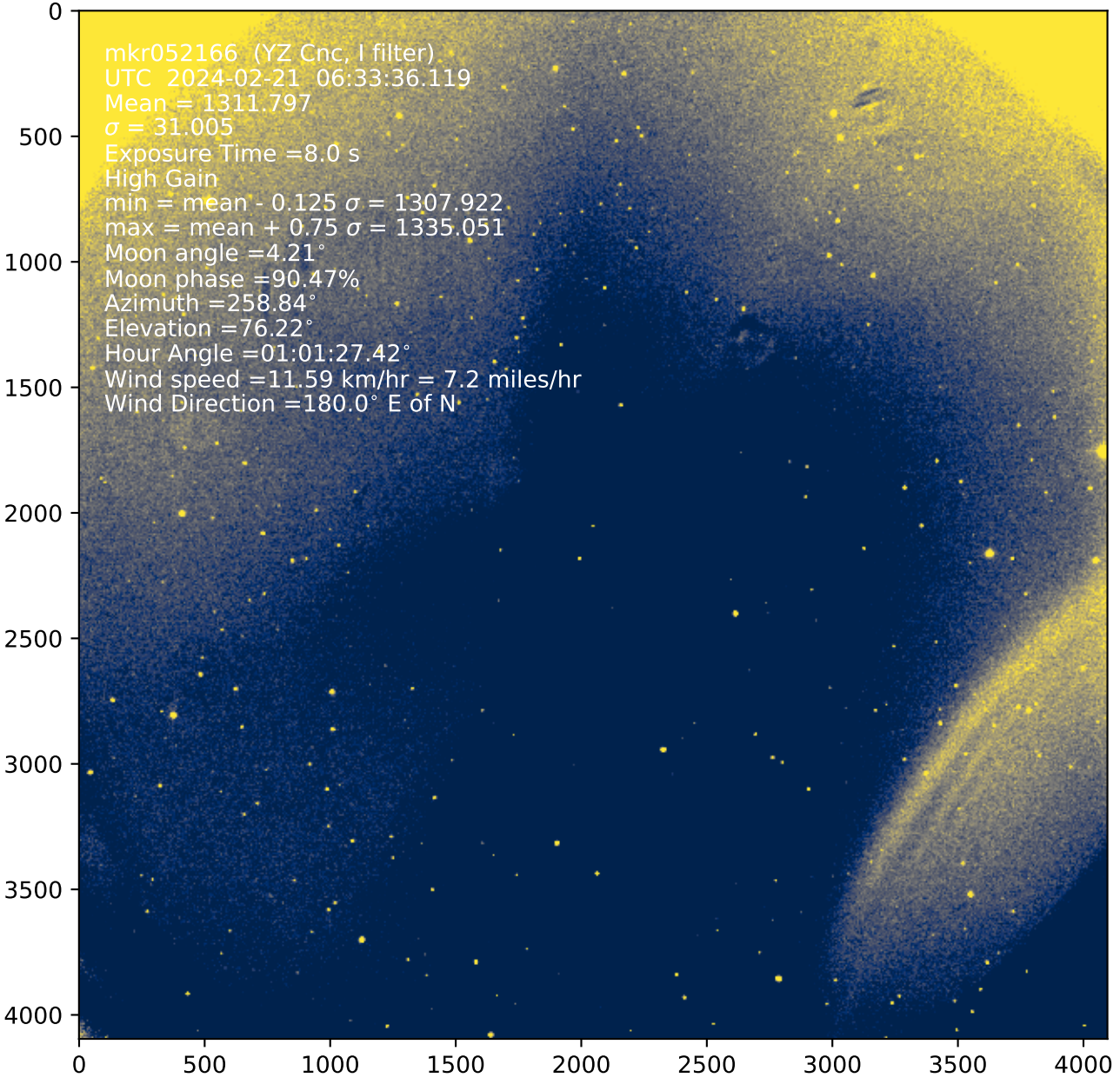
mkr052166 (YZ Cnc, I filter)
UTC 2024-02-21 06:33:36.119
Mean = 1311.797
σ = 31.005
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1307.922
max = mean + 0.75 σ = 1335.051
Moon angle =4.21°
Moon phase =90.47%
Azimuth =258.84°
Elevation =76.22°
Hour Angle =01:01:27.42°
Wind speed =11.59 km/hr = 7.2 miles/hr
Wind Direction =180.0° E of N
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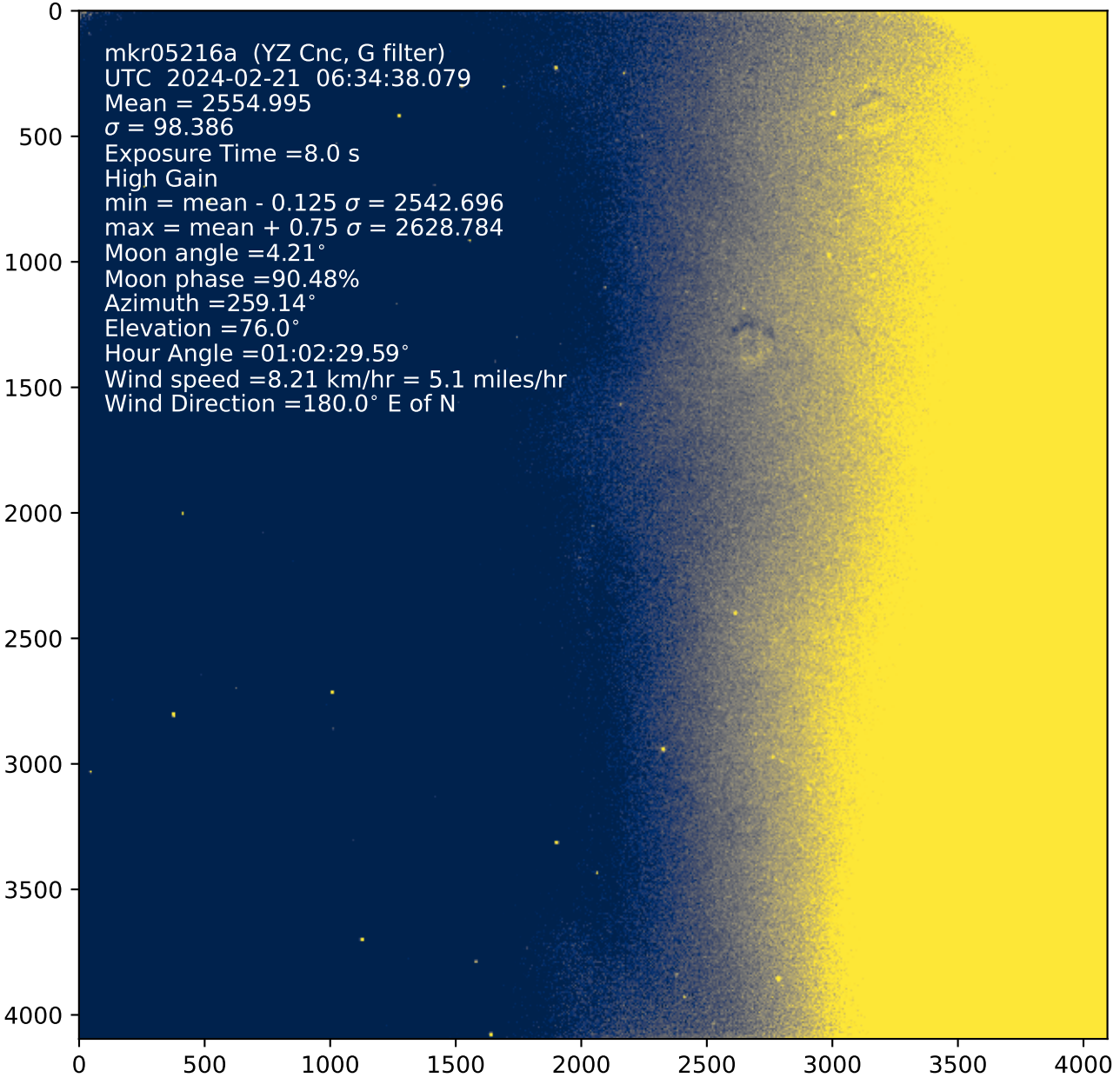
mkr05216a (YZ Cnc, G filter)
UTC 2024-02-21 06:34:38.079
Mean = 2554.995
σ = 98.386
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2542.696
max = mean + 0.75 σ = 2628.784
Moon angle =4.21°
Moon phase =90.48%
Azimuth =259.14°
Elevation =76.0°
Hour Angle =01:02:29.59°
Wind speed =8.21 km/hr = 5.1 miles/hr
Wind Direction =180.0° E of N
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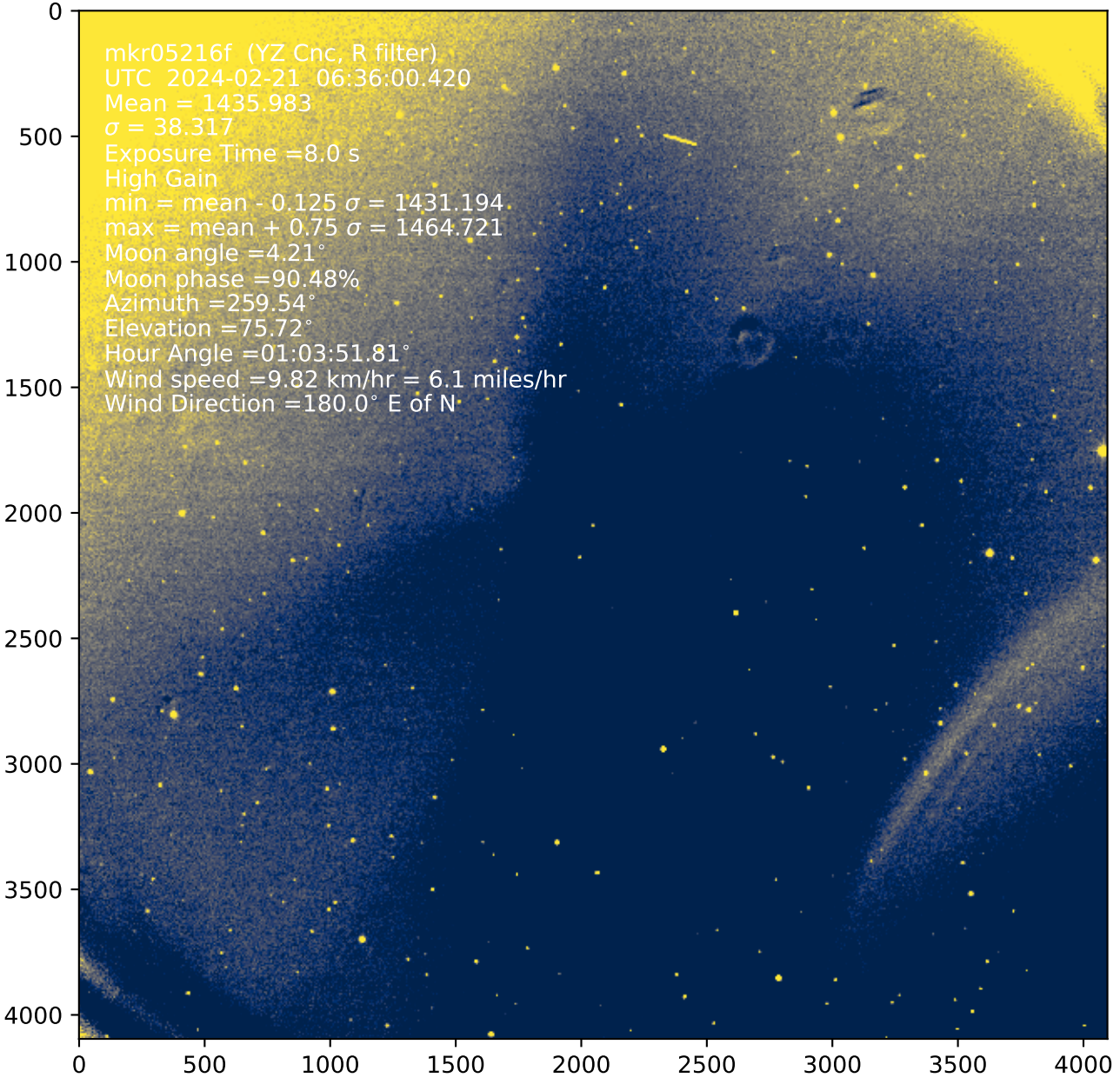
mkr05216f (YZ Cnc, R filter)
UTC 2024-02-21 06:36:00.420
Mean = 1435.983
σ = 38.317
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1431.194
max = mean + 0.75 σ = 1464.721
Moon angle =4.21°
Moon phase =90.48%
Azimuth =259.54°
Elevation =75.72°
Hour Angle =01:03:51.81°
Wind speed =9.82 km/hr = 6.1 miles/hr
Wind Direction =180.0° E of N
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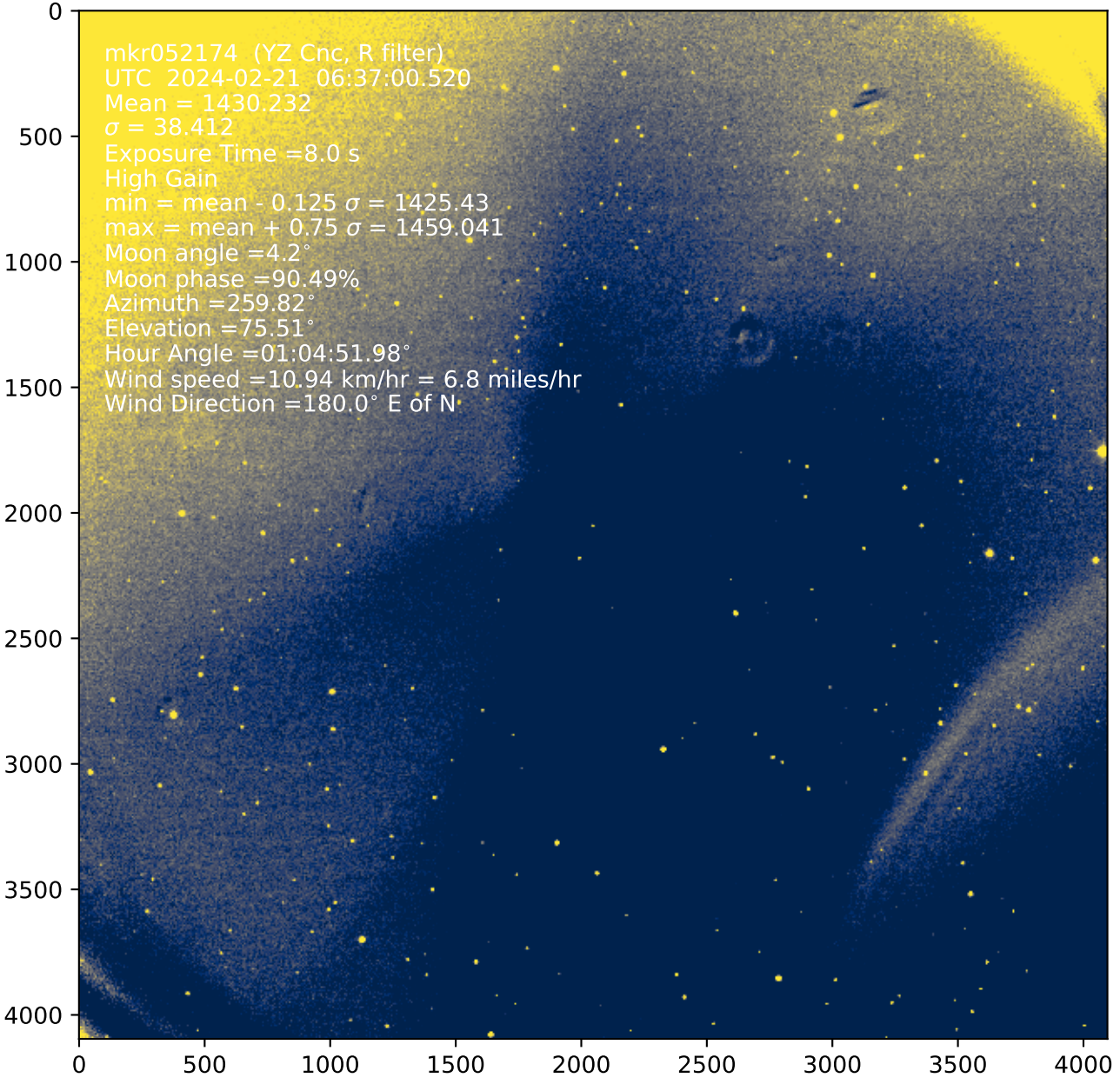
mkr052174 (YZ Cnc, R filter)
UTC 2024-02-21 06:37:00.520
Mean = 1430.232
σ = 38.412
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1425.43
max = mean + 0.75 σ = 1459.041
Moon angle =4.2˚
Moon phase =90.49%
Azimuth =259.82˚
Elevation =75.51˚
Hour Angle =01:04:51.98˚
Wind speed =10.94 km/hr = 6.8 miles/hr
Wind Direction =180.0˚ E of N
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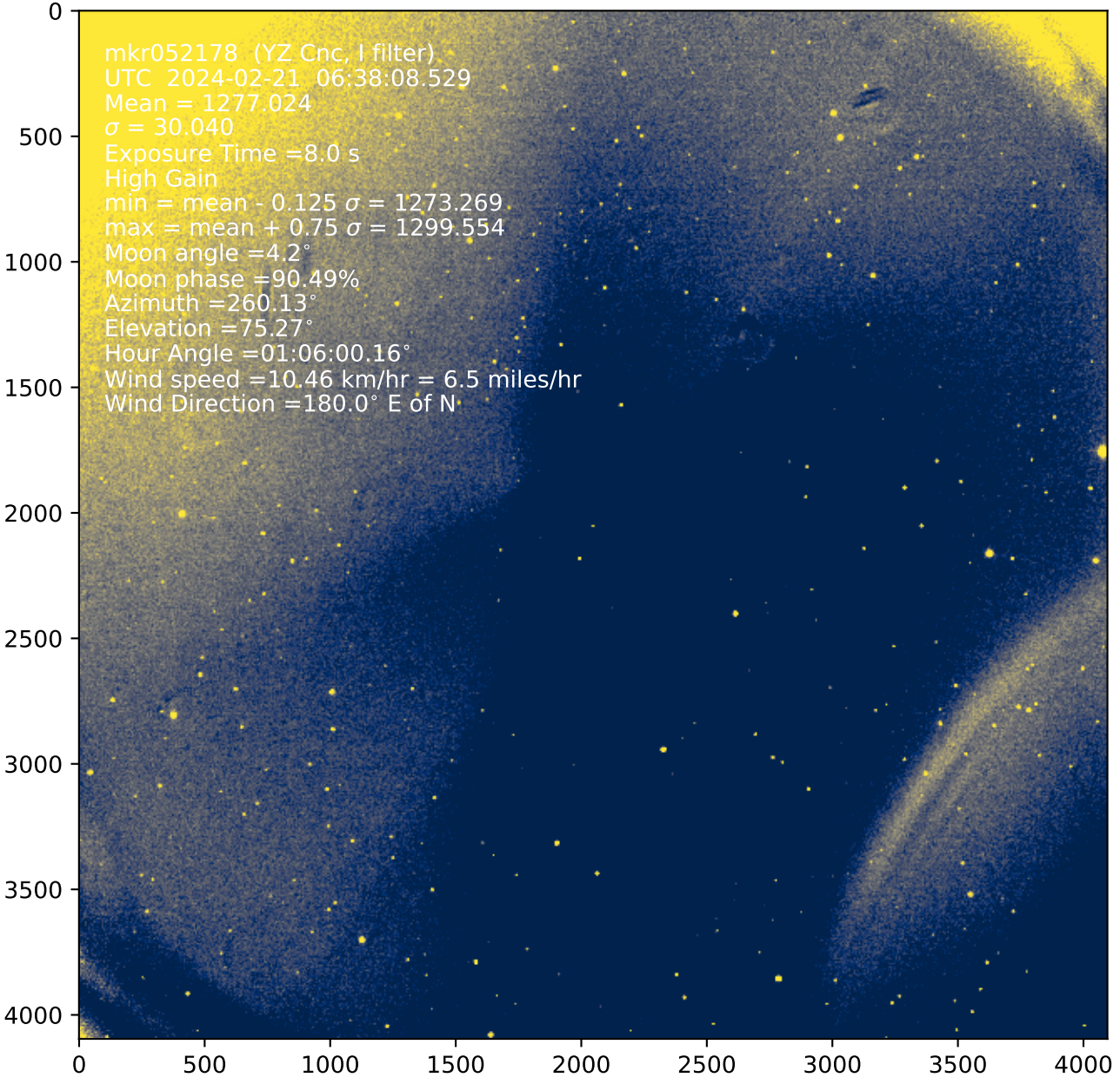
mkr052178 (YZ Cnc, I filter)
UTC 2024-02-21 06:38:08.529
Mean = 1277.024
σ = 30.040
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1273.269
max = mean + 0.75 σ = 1299.554
Moon angle =4.2°
Moon phase =90.49%
Azimuth =260.13°
Elevation =75.27°
Hour Angle =01:06:00.16°
Wind speed =10.46 km/hr = 6.5 miles/hr
Wind Direction =180.0° E of N
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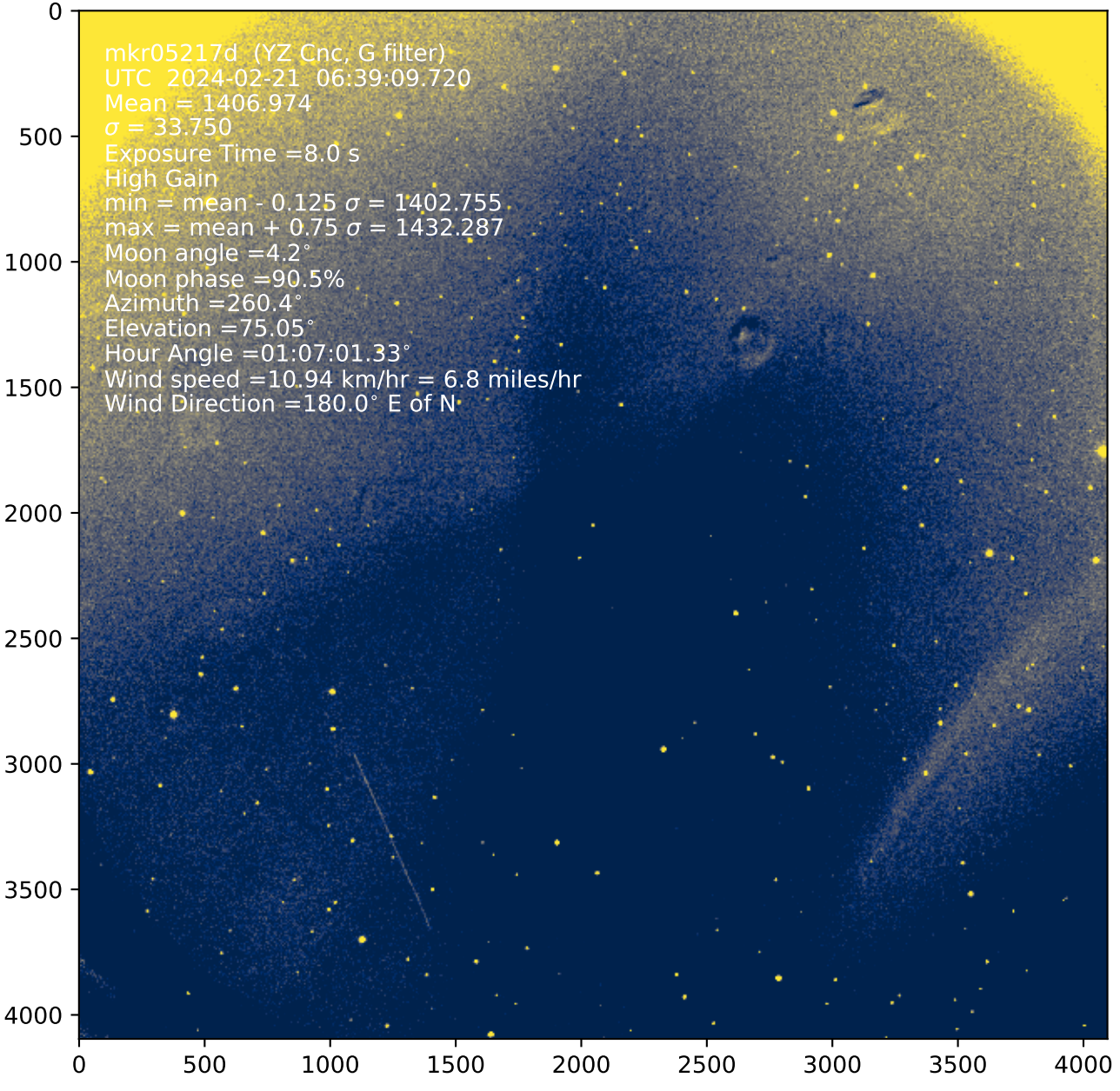
mkr05217d (YZ Cnc, G filter)
UTC 2024-02-21 06:39:09.720
Mean = 1406.974
σ = 33.750
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1402.755
max = mean + 0.75 σ = 1432.287
Moon angle =4.2°
Moon phase =90.5%
Azimuth =260.4°
Elevation =75.05°
Hour Angle =01:07:01.33°
Wind speed =10.94 km/hr = 6.8 miles/hr
Wind Direction =180.0° E of N
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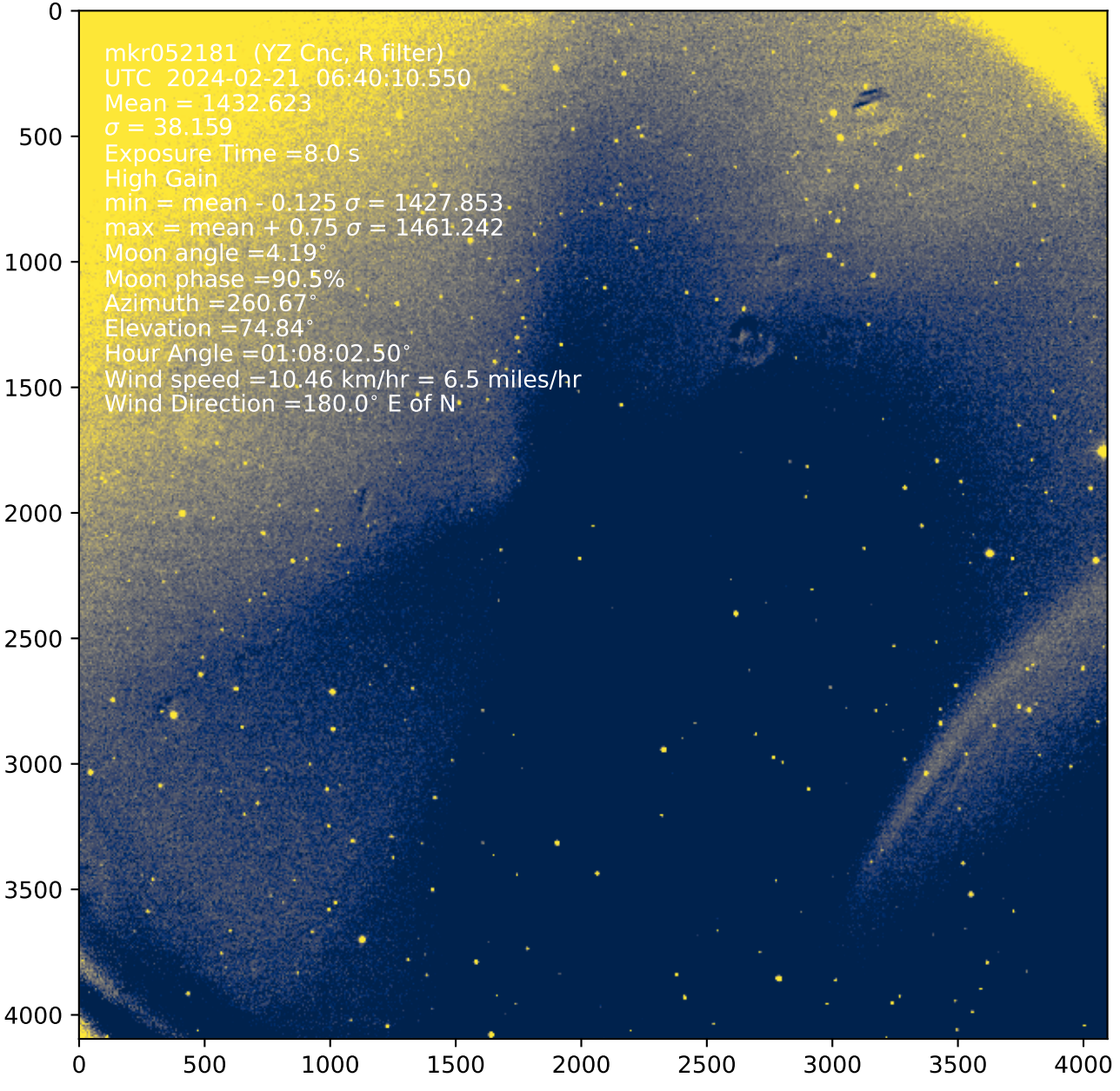
mkr052181 (YZ Cnc, R filter)
UTC 2024-02-21 06:40:10.550
Mean = 1432.623
σ = 38.159
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1427.853
max = mean + 0.75 σ = 1461.242
Moon angle =4.19°
Moon phase =90.5%
Azimuth =260.67°
Elevation =74.84°
Hour Angle =01:08:02.50°
Wind speed =10.46 km/hr = 6.5 miles/hr
Wind Direction =180.0° E of N
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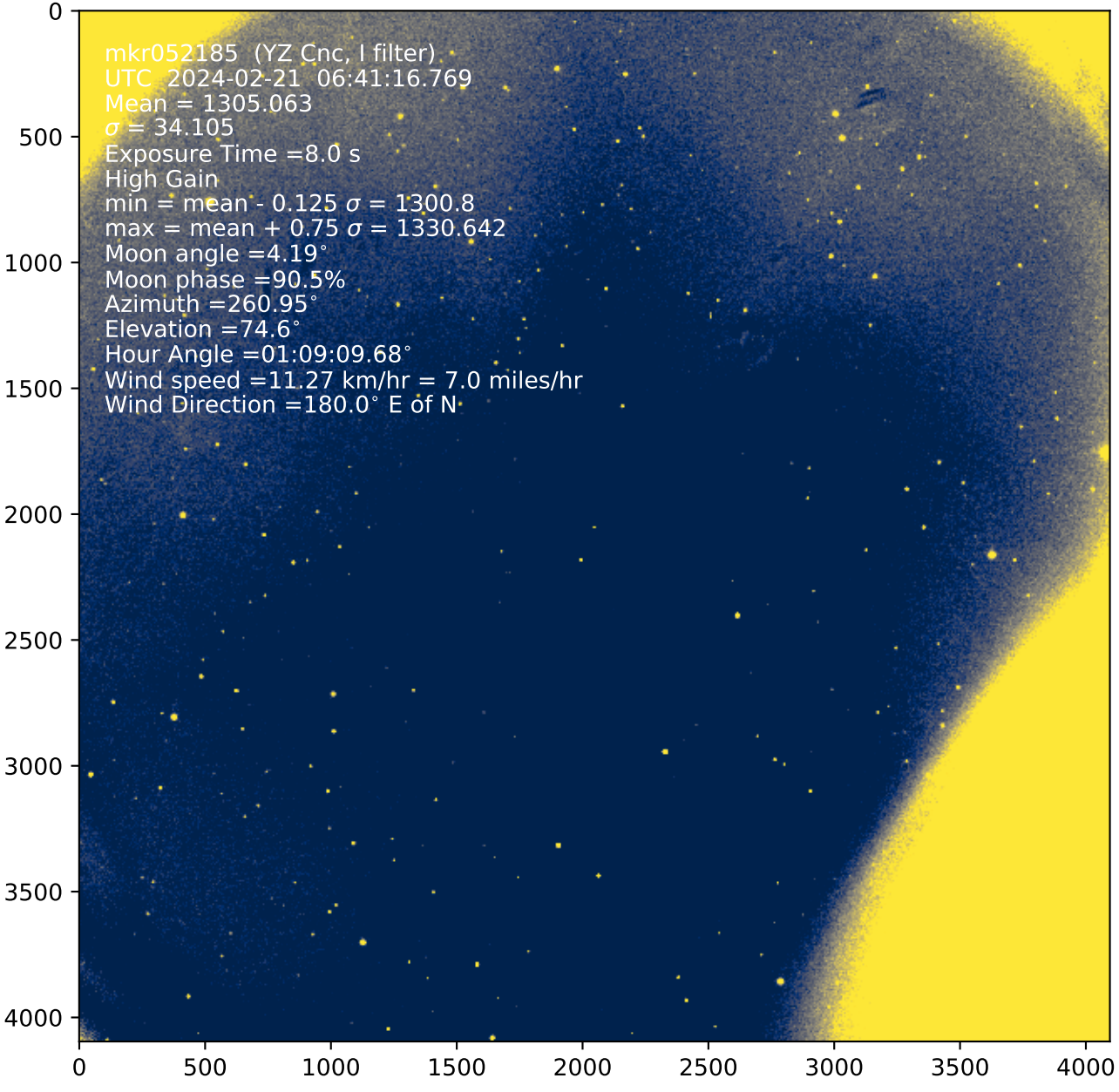
mkr052185 (YZ Cnc, I filter)
UTC 2024-02-21 06:41:16.769
Mean = 1305.063
σ = 34.105
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1300.8
max = mean + 0.75 σ = 1330.642
Moon angle =4.19°
Moon phase =90.5%
Azimuth =260.95°
Elevation =74.6°
Hour Angle =01:09:09.68°
Wind speed =11.27 km/hr = 7.0 miles/hr
Wind Direction =180.0° E of N
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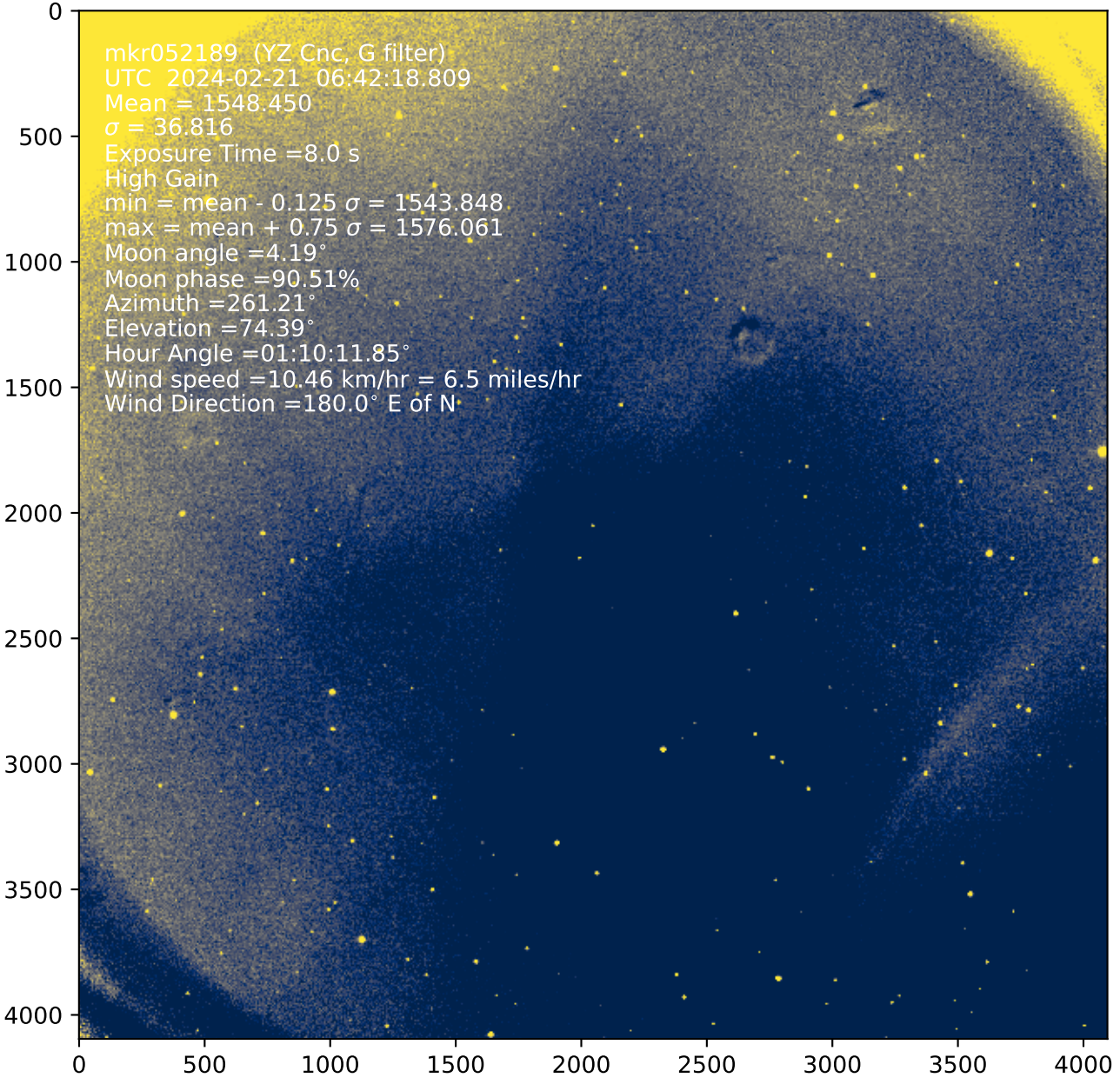
mkr052189 (YZ Cnc, G filter)
UTC 2024-02-21 06:42:18.809
Mean = 1548.450
σ = 36.816
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1543.848
max = mean + 0.75 σ = 1576.061
Moon angle =4.19°
Moon phase =90.51%
Azimuth =261.21°
Elevation =74.39°
Hour Angle =01:10:11.85°
Wind speed =10.46 km/hr = 6.5 miles/hr
Wind Direction =180.0° E of N
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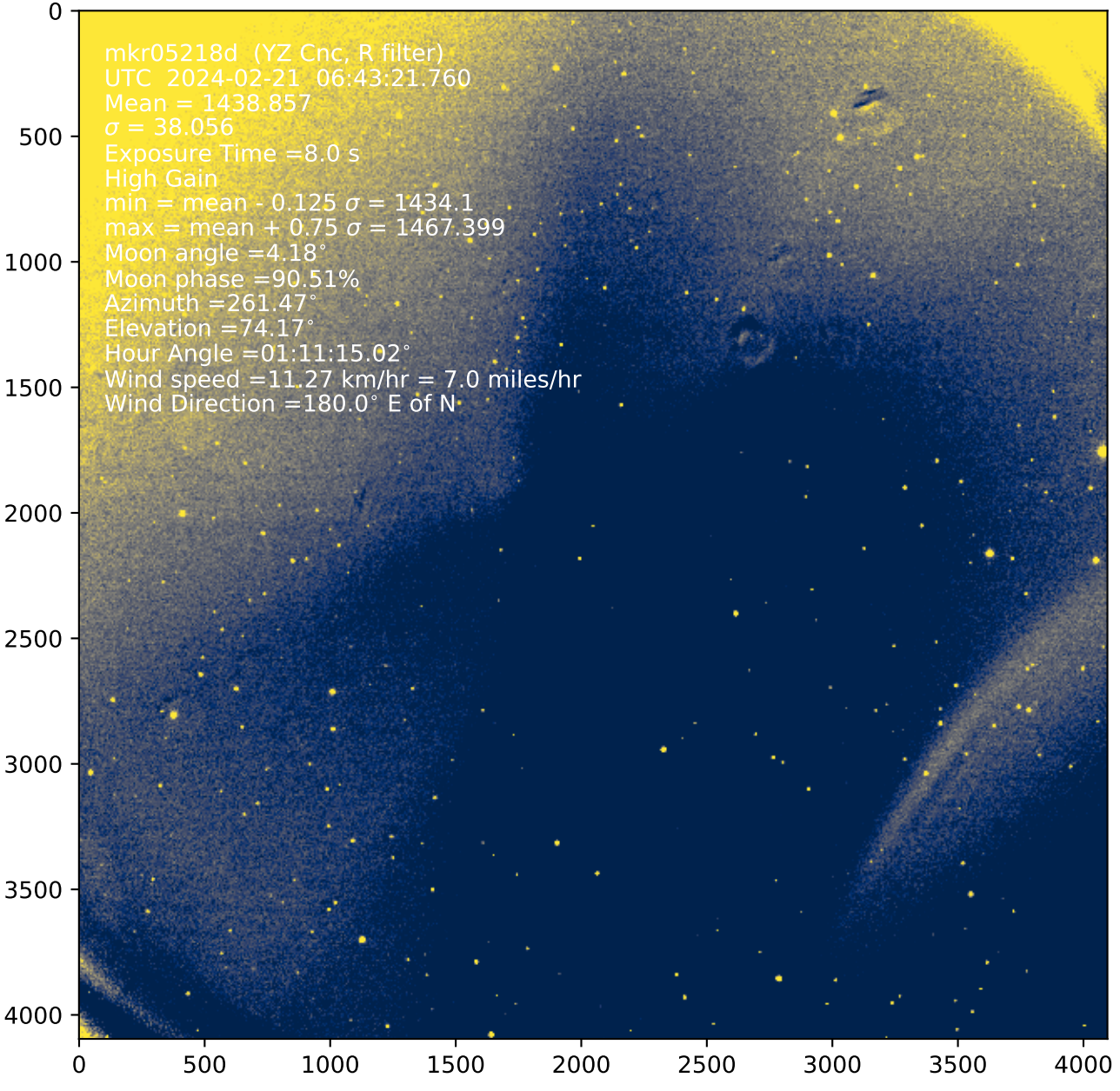
mkr05218d (YZ Cnc, R filter)
UTC 2024-02-21 06:43:21.760
Mean = 1438.857
σ = 38.056
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1434.1
max = mean + 0.75 σ = 1467.399
Moon angle =4.18°
Moon phase =90.51%
Azimuth =261.47°
Elevation =74.17°
Hour Angle =01:11:15.02°
Wind speed =11.27 km/hr = 7.0 miles/hr
Wind Direction =180.0° E of N
0
500
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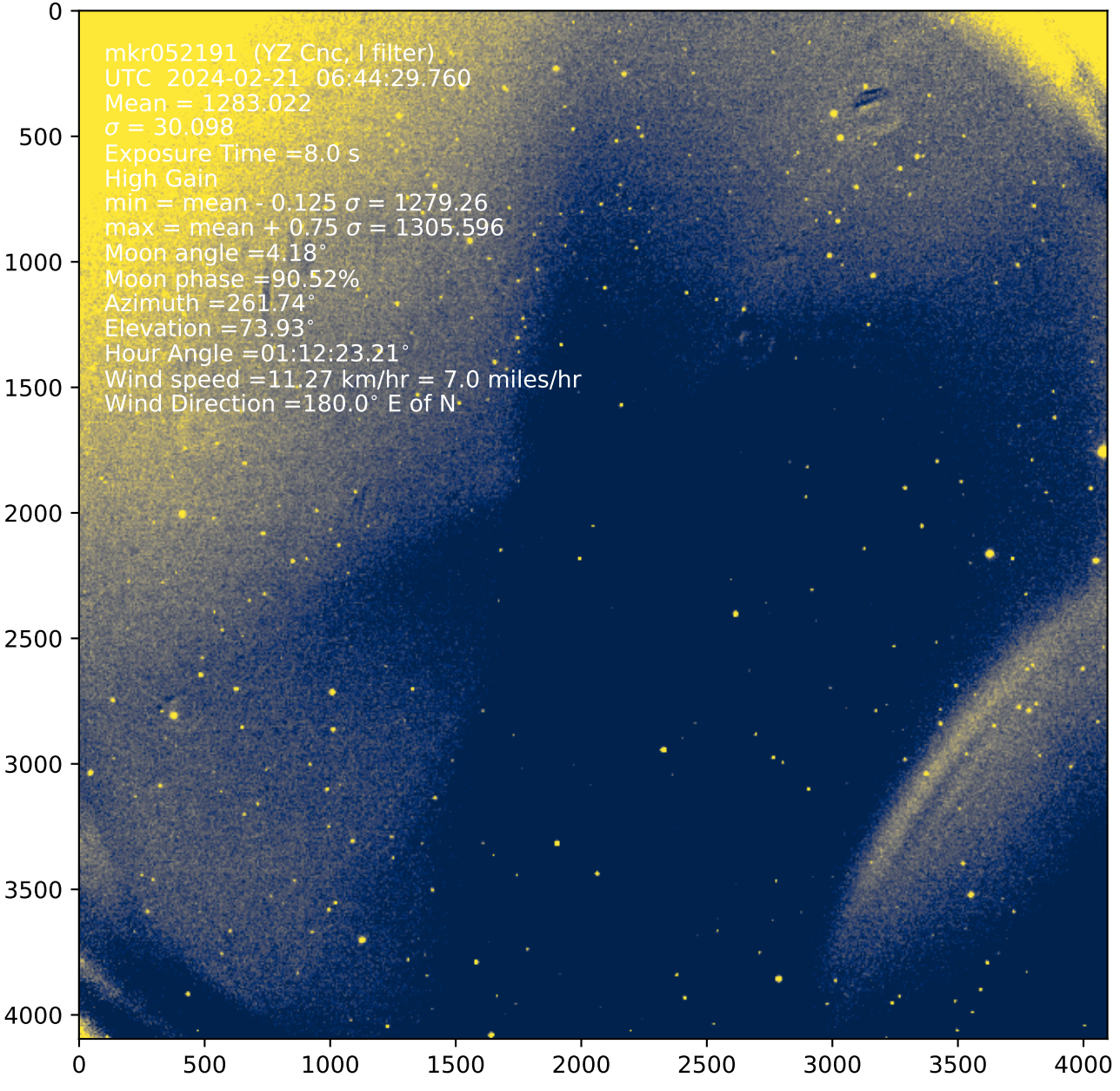
mkr052191 (YZ Cnc, I filter)
UTC 2024-02-21 06:44:29.760
Mean = 1283.022
σ = 30.098
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1279.26
max = mean + 0.75 σ = 1305.596
Moon angle =4.18°
Moon phase =90.52%
Azimuth =261.74°
Elevation =73.93°
Hour Angle =01:12:23.21°
Wind speed =11.27 km/hr = 7.0 miles/hr
Wind Direction =180.0° E of N
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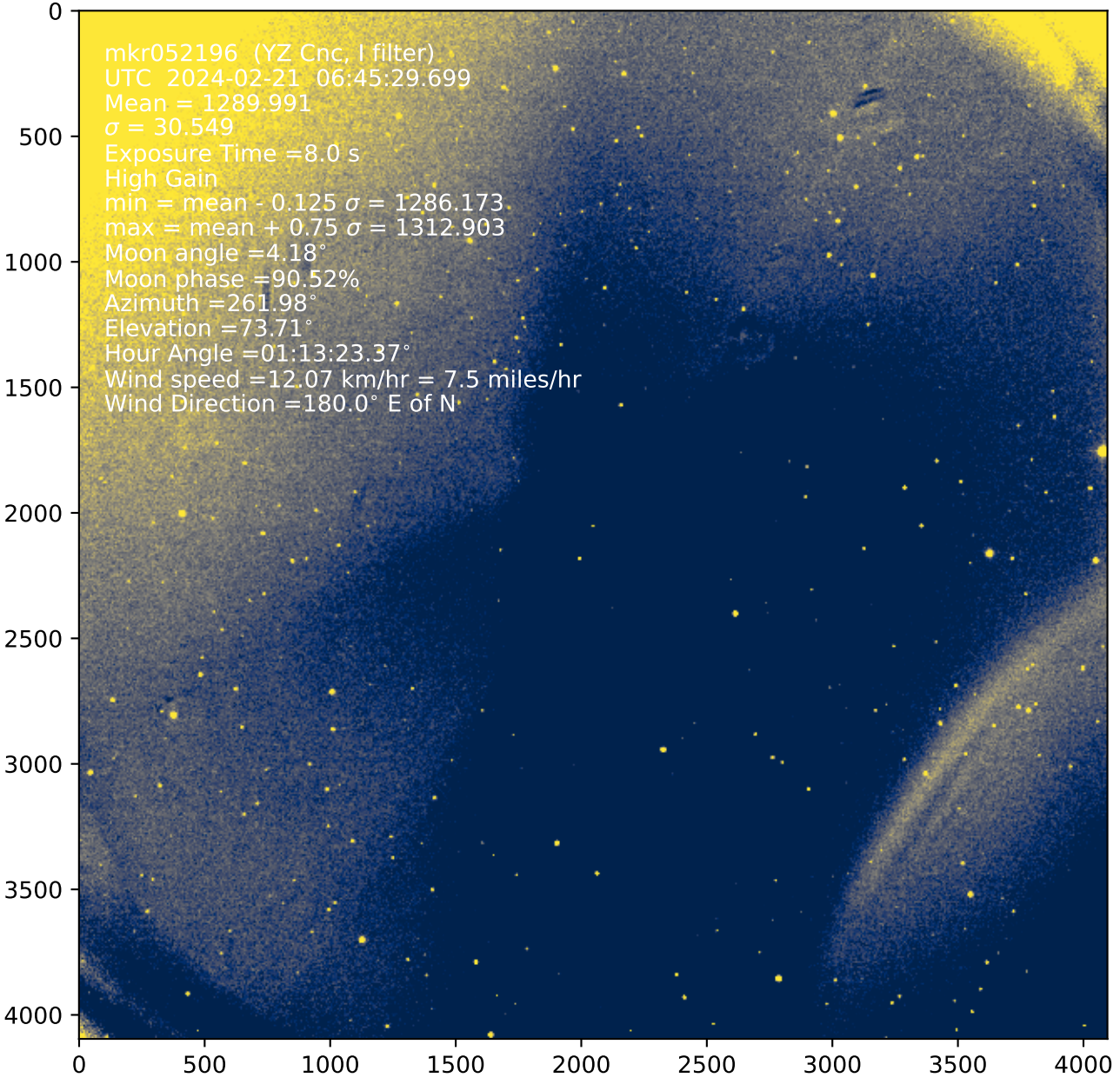
mkr052196 (YZ Cnc, I filter)
UTC 2024-02-21 06:45:29.699
Mean = 1289.991
σ = 30.549
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1286.173
max = mean + 0.75 σ = 1312.903
Moon angle =4.18°
Moon phase =90.52%
Azimuth =261.98°
Elevation =73.71°
Hour Angle =01:13:23.37°
Wind speed =12.07 km/hr = 7.5 miles/hr
Wind Direction =180.0° E of N
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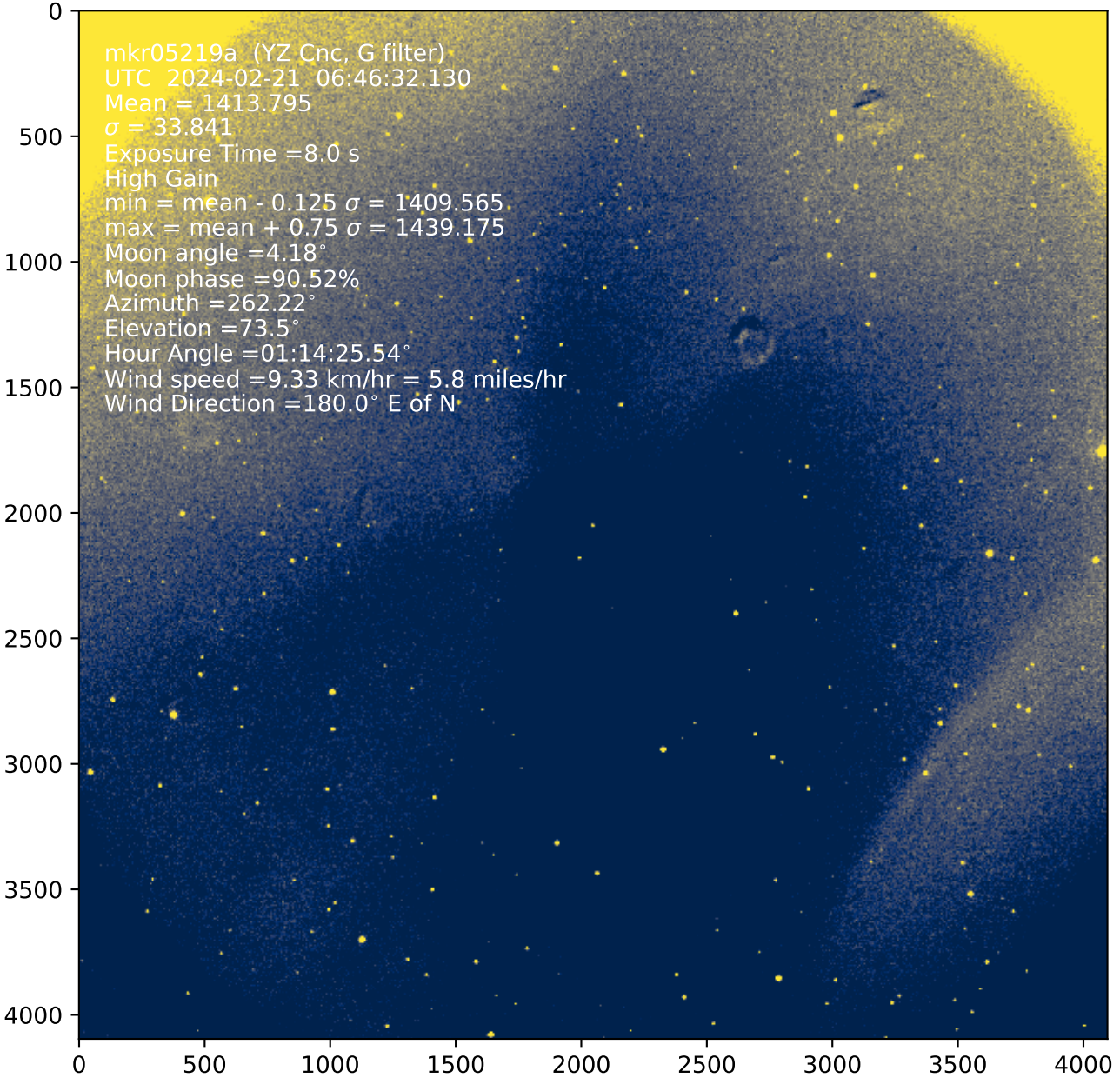
mkr05219a (YZ Cnc, G filter)
UTC 2024-02-21 06:46:32.130
Mean = 1413.795
σ = 33.841
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1409.565
max = mean + 0.75 σ = 1439.175
Moon angle =4.18°
Moon phase =90.52%
Azimuth =262.22°
Elevation =73.5°
Hour Angle =01:14:25.54°
Wind speed =9.33 km/hr = 5.8 miles/hr
Wind Direction =180.0° E of N
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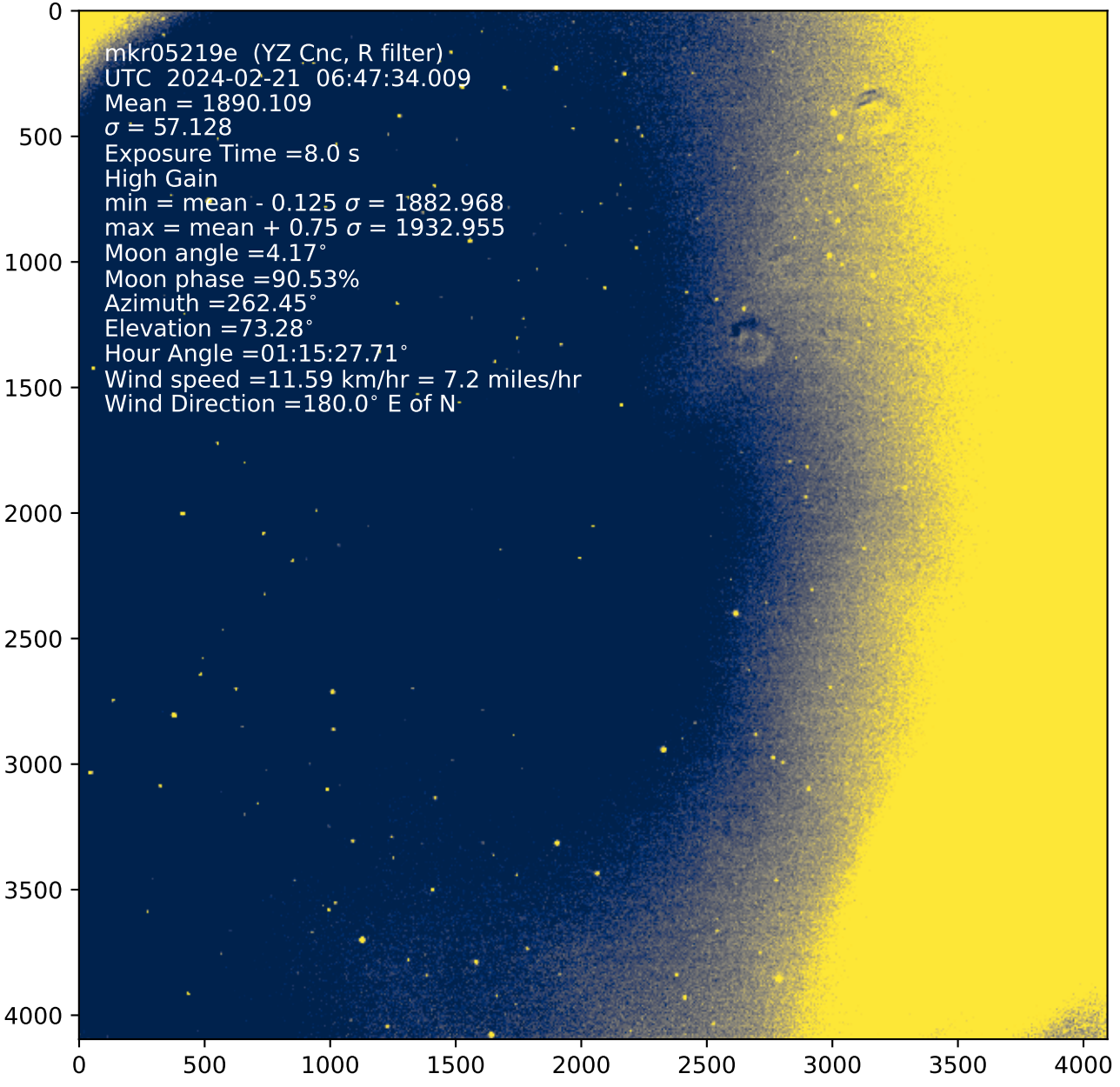
mkr05219e (YZ Cnc, R filter)
UTC 2024-02-21 06:47:34.009
Mean = 1890.109
σ = 57.128
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1882.968
max = mean + 0.75 σ = 1932.955
Moon angle =4.17°
Moon phase =90.53%
Azimuth =262.45°
Elevation =73.28°
Hour Angle =01:15:27.71°
Wind speed =11.59 km/hr = 7.2 miles/hr
Wind Direction =180.0° E of N
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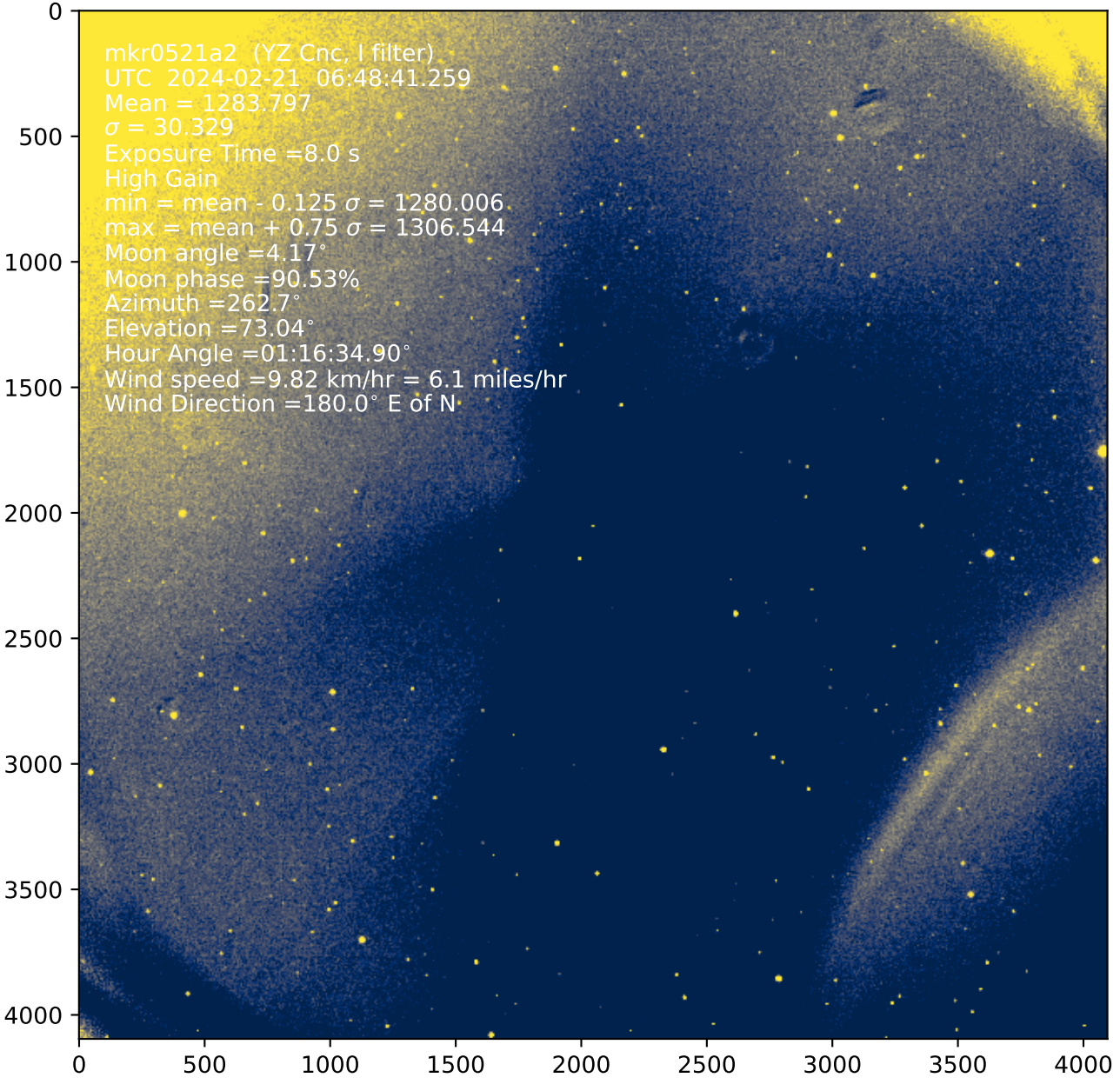
mkr0521a2 (YZ Cnc, I filter)
UTC 2024-02-21 06:48:41.259
Mean = 1283.797
σ = 30.329
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1280.006
max = mean + 0.75 σ = 1306.544
Moon angle =4.17°
Moon phase =90.53%
Azimuth =262.7°
Elevation =73.04°
Hour Angle =01:16:34.90°
Wind speed =9.82 km/hr = 6.1 miles/hr
Wind Direction =180.0° E of N
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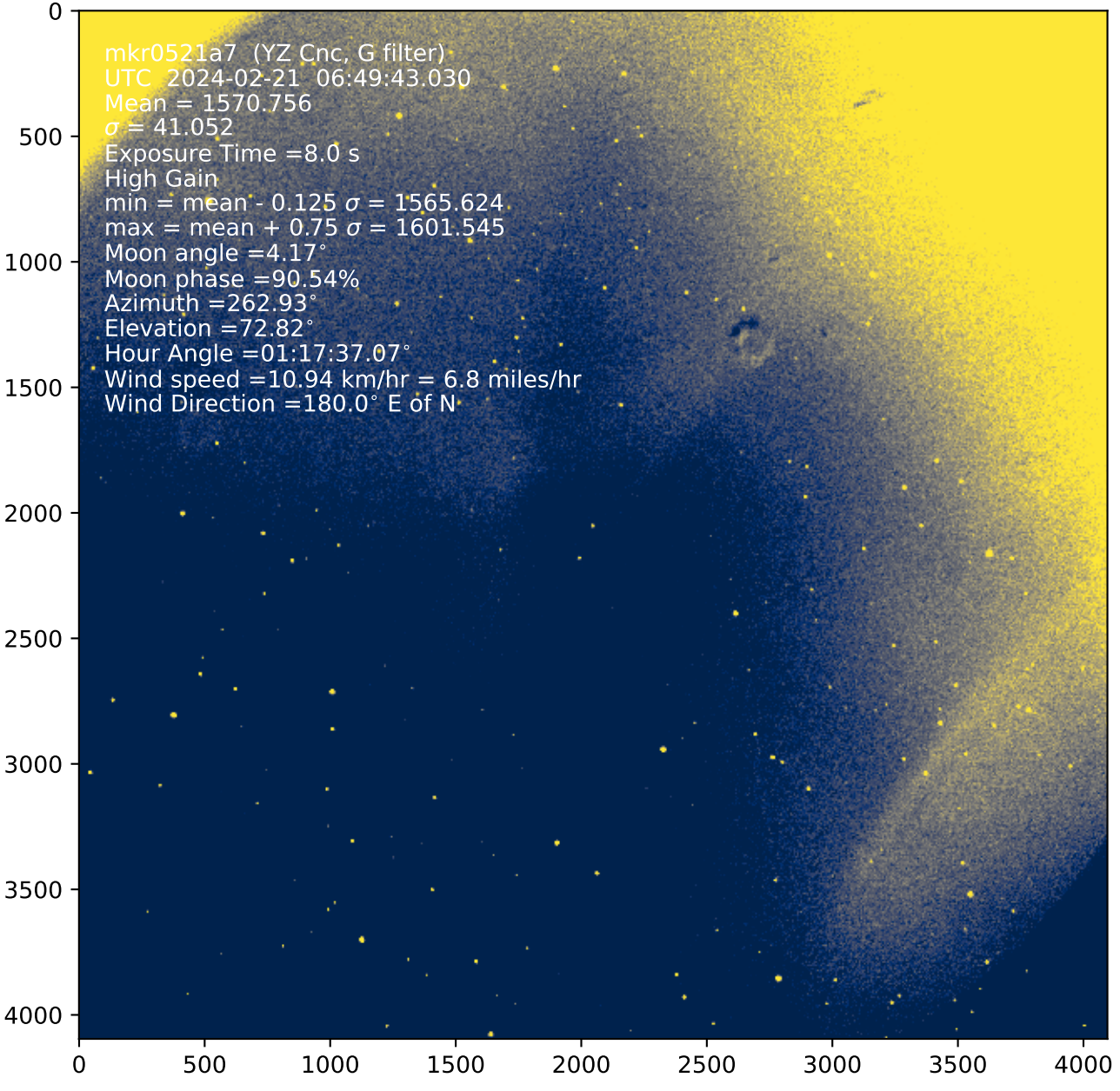
mkr0521a7 (YZ Cnc, G filter)
UTC 2024-02-21 06:49:43.030
Mean = 1570.756
σ = 41.052
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1565.624
max = mean + 0.75 σ = 1601.545
Moon angle =4.17°
Moon phase =90.54%
Azimuth =262.93°
Elevation =72.82°
Hour Angle =01:17:37.07°
Wind speed =10.94 km/hr = 6.8 miles/hr
Wind Direction =180.0° E of N
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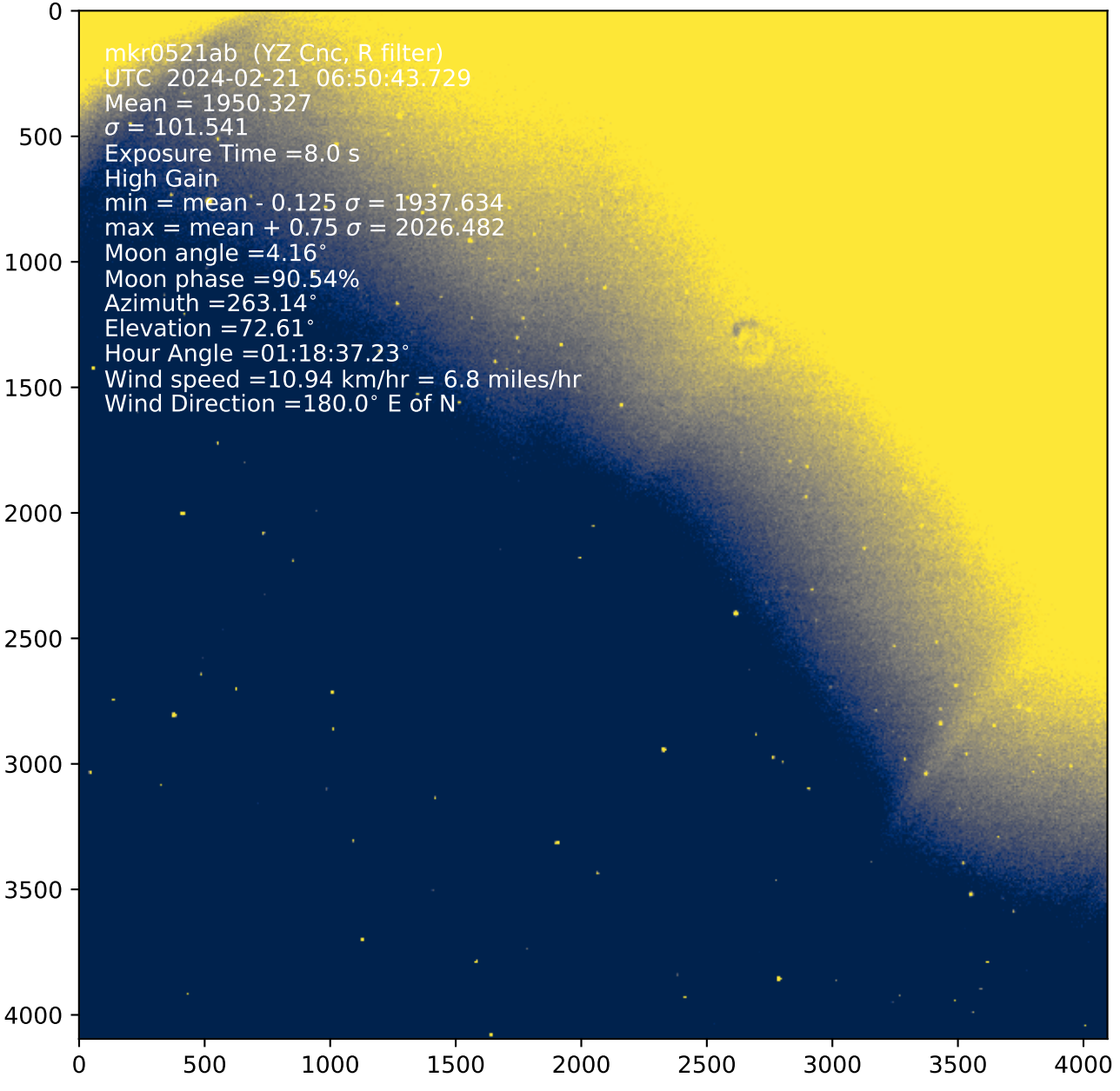
mkr0521ab (YZ Cnc, R filter)
UTC 2024-02-21 06:50:43.729
Mean = 1950.327
σ = 101.541
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1937.634
max = mean + 0.75 σ = 2026.482
Moon angle =4.16°
Moon phase =90.54%
Azimuth =263.14°
Elevation =72.61°
Hour Angle =01:18:37.23°
Wind speed =10.94 km/hr = 6.8 miles/hr
Wind Direction =180.0° E of N
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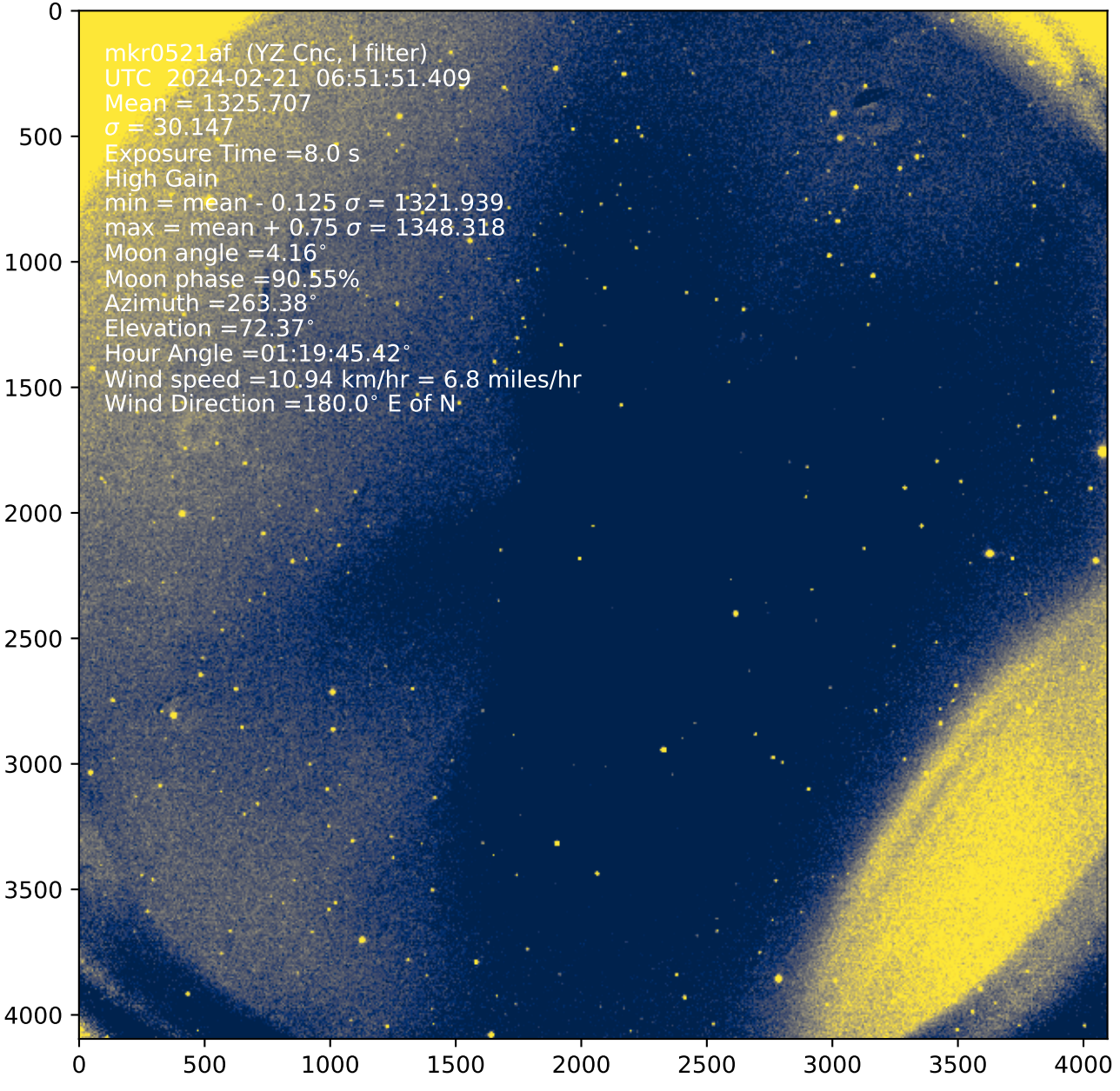
mkr0521af (YZ Cnc, I filter)
UTC 2024-02-21 06:51:51.409
Mean = 1325.707
σ = 30.147
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1321.939
max = mean + 0.75 σ = 1348.318
Moon angle =4.16°
Moon phase =90.55%
Azimuth =263.38°
Elevation =72.37°
Hour Angle =01:19:45.42°
Wind speed =10.94 km/hr = 6.8 miles/hr
Wind Direction =180.0° E of N
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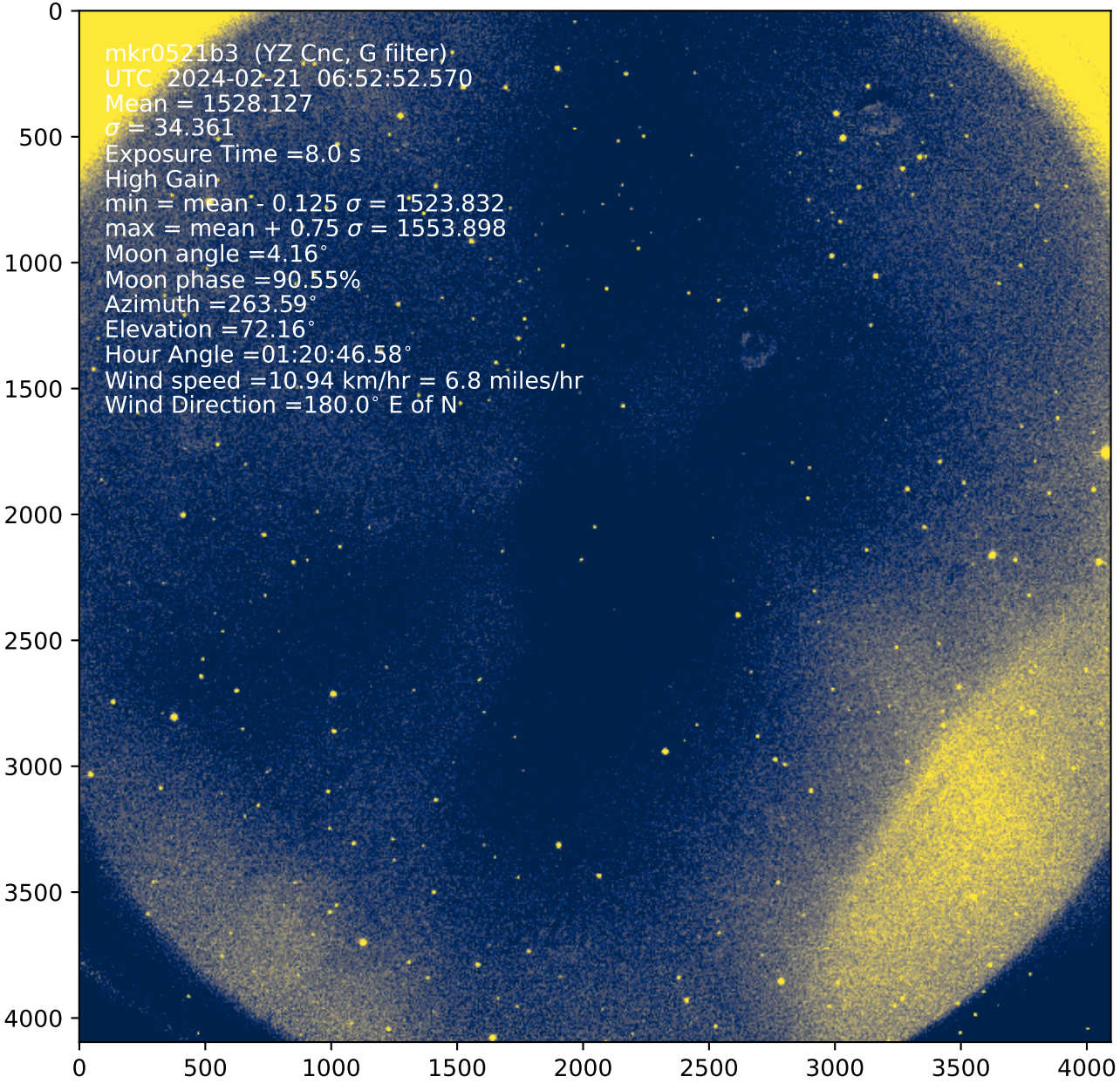
mkr0521b3 (YZ Cnc, G filter)
UTC 2024-02-21 06:52:52.570
Mean = 1528.127
σ = 34.361
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1523.832
max = mean + 0.75 σ = 1553.898
Moon angle =4.16˚
Moon phase =90.55%
Azimuth =263.59˚
Elevation =72.16˚
Hour Angle =01:20:46.58˚
Wind speed =10.94 km/hr = 6.8 miles/hr
Wind Direction =180.0˚ E of N
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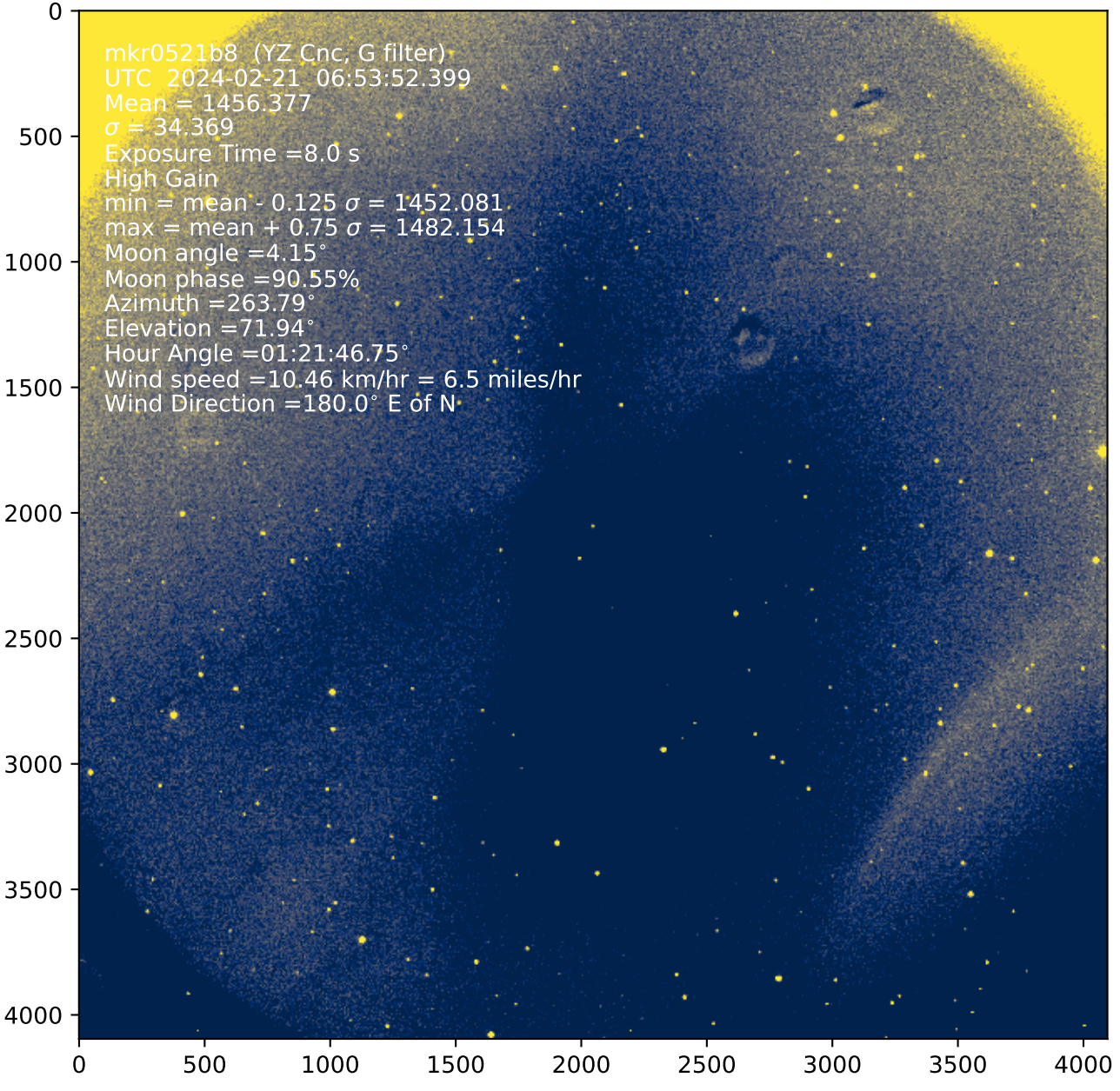
mkr0521b8 (YZ Cnc, G filter)
UTC 2024-02-21 06:53:52.399
Mean = 1456.377
σ = 34.369
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1452.081
max = mean + 0.75 σ = 1482.154
Moon angle =4.15°
Moon phase =90.55%
Azimuth =263.79°
Elevation =71.94°
Hour Angle =01:21:46.75°
Wind speed =10.46 km/hr = 6.5 miles/hr
Wind Direction =180.0° E of N
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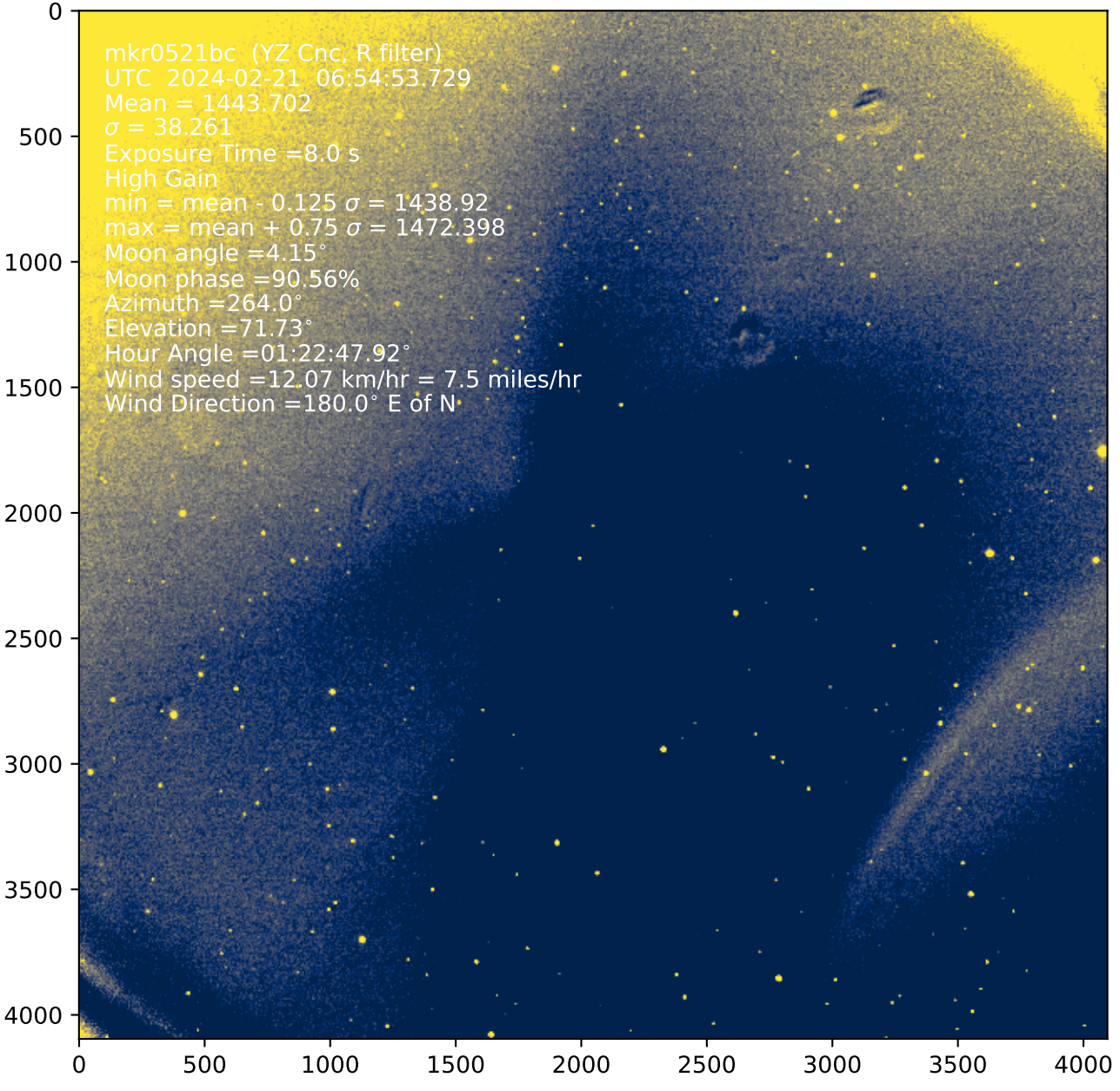
mkr0521bc (YZ Cnc, R filter)
UTC 2024-02-21 06:54:53.729
Mean = 1443.702
σ = 38.261
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1438.92
max = mean + 0.75 σ = 1472.398
Moon angle =4.15°
Moon phase =90.56%
Azimuth =264.0°
Elevation =71.73°
Hour Angle =01:22:47.92°
Wind speed =12.07 km/hr = 7.5 miles/hr
Wind Direction =180.0° E of N
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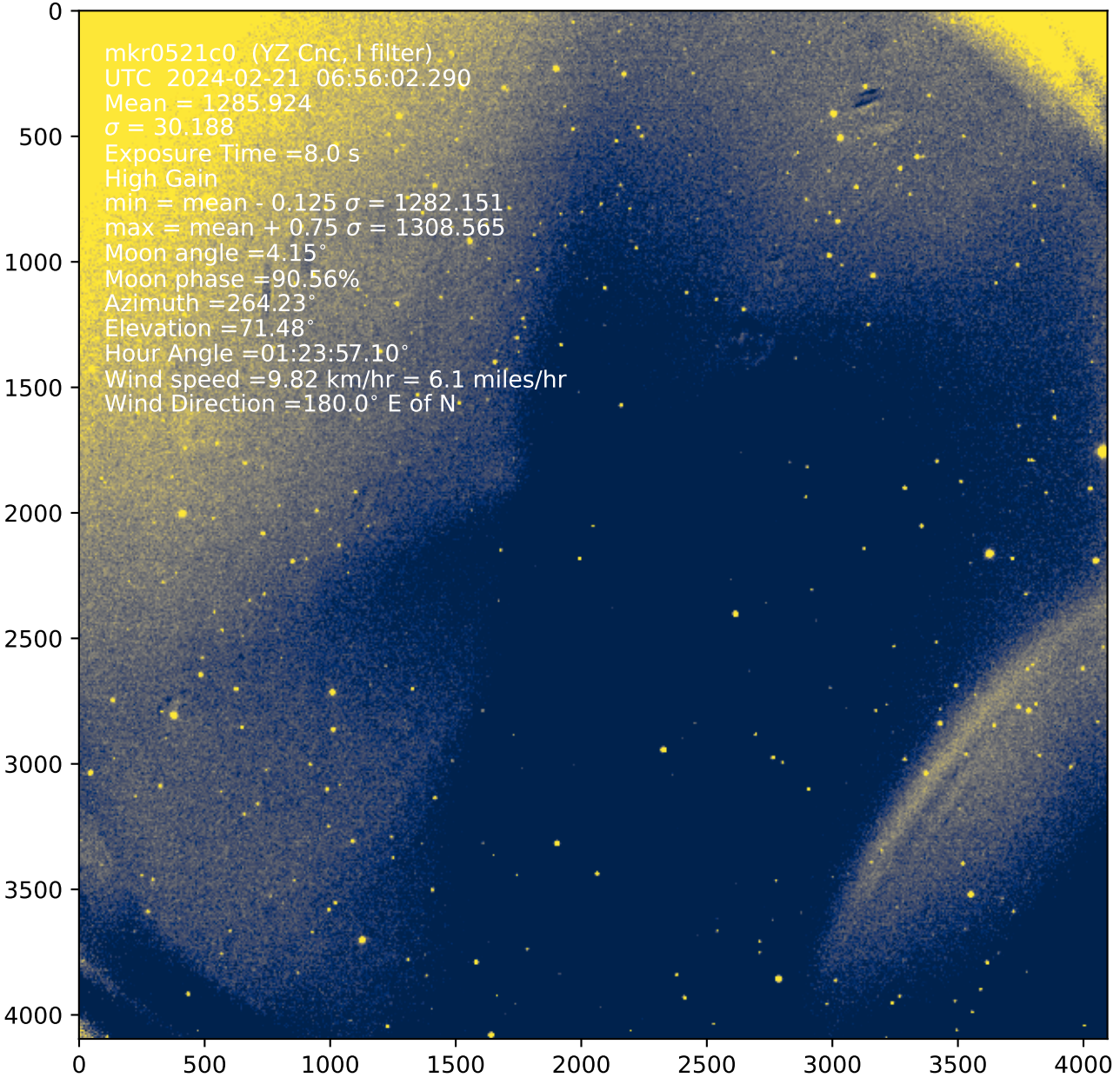
mkr0521c0 (YZ Cnc, I filter)
UTC 2024-02-21 06:56:02.290
Mean = 1285.924
σ = 30.188
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1282.151
max = mean + 0.75 σ = 1308.565
Moon angle =4.15°
Moon phase =90.56%
Azimuth =264.23°
Elevation =71.48°
Hour Angle =01:23:57.10°
Wind speed =9.82 km/hr = 6.1 miles/hr
Wind Direction =180.0° E of N
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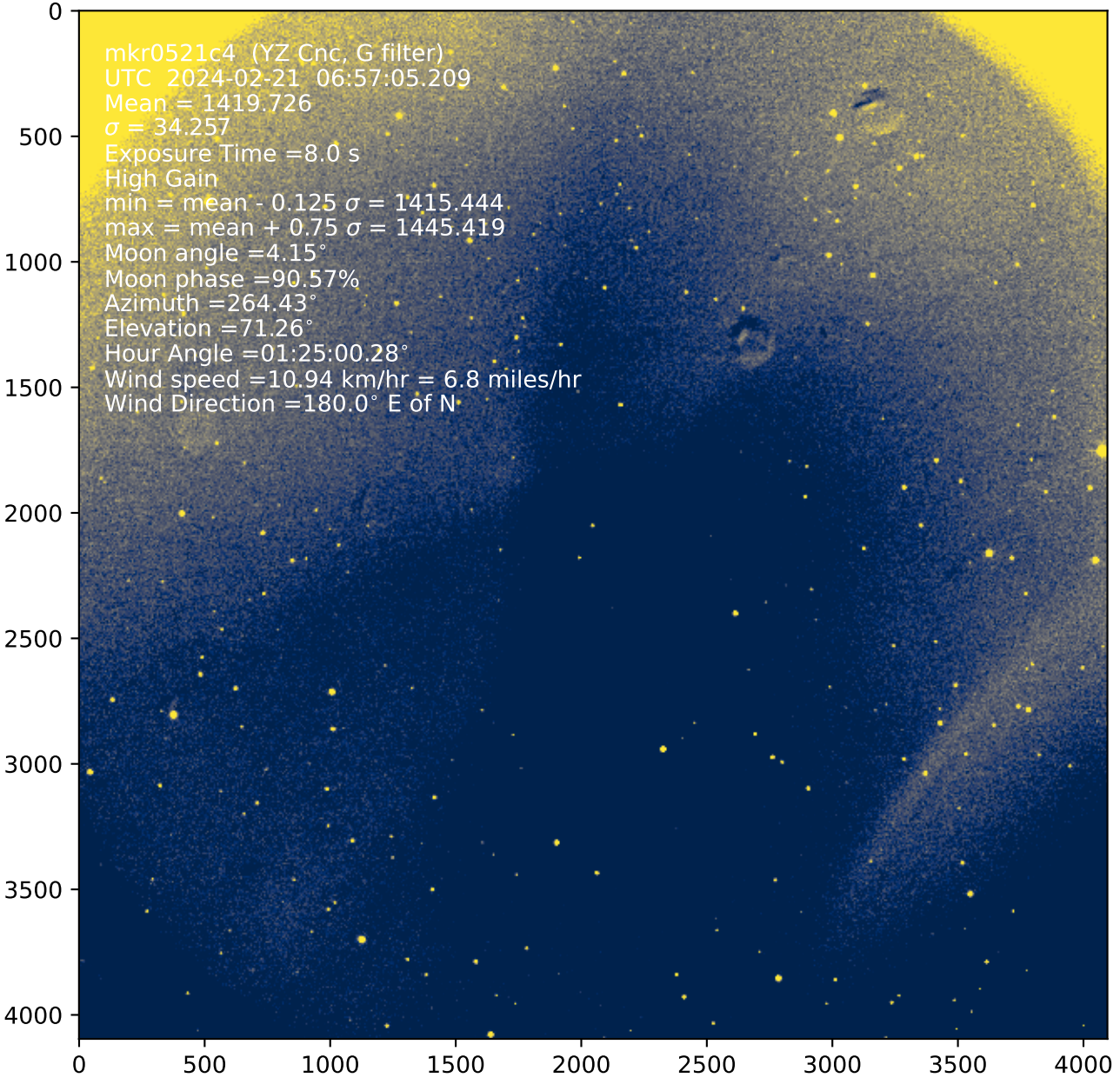
mkr0521c4 (YZ Cnc, G filter)
UTC 2024-02-21 06:57:05.209
Mean = 1419.726
σ = 34.257
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1415.444
max = mean + 0.75 σ = 1445.419
Moon angle =4.15°
Moon phase =90.57%
Azimuth =264.43°
Elevation =71.26°
Hour Angle =01:25:00.28°
Wind speed =10.94 km/hr = 6.8 miles/hr
Wind Direction =180.0° E of N
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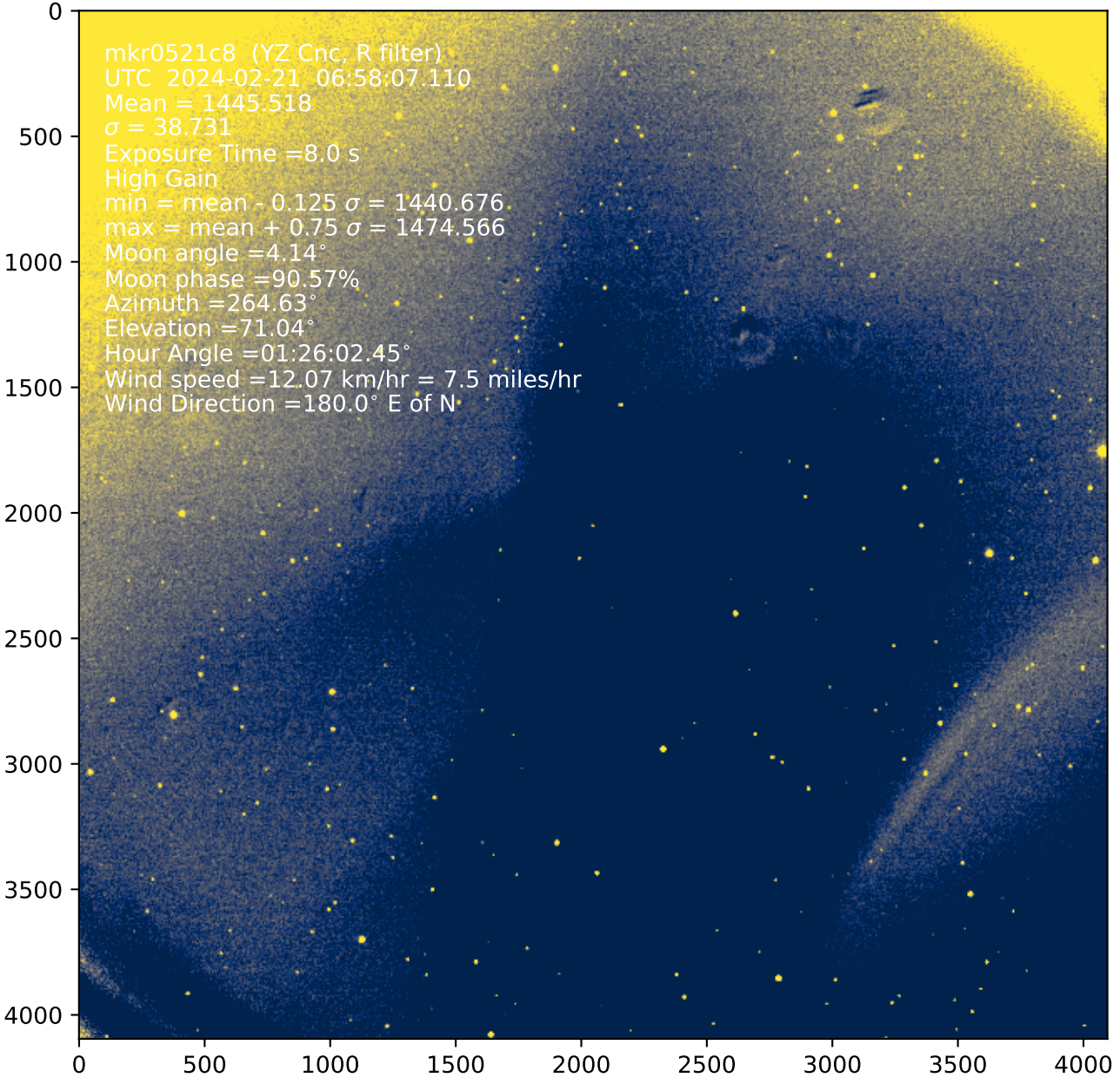
mkr0521c8 (YZ Cnc, R filter)
UTC 2024-02-21 06:58:07.110
Mean = 1445.518
σ = 38.731
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1440.676
max = mean + 0.75 σ = 1474.566
Moon angle =4.14°
Moon phase =90.57%
Azimuth =264.63°
Elevation =71.04°
Hour Angle =01:26:02.45°
Wind speed =12.07 km/hr = 7.5 miles/hr
Wind Direction =180.0° E of N
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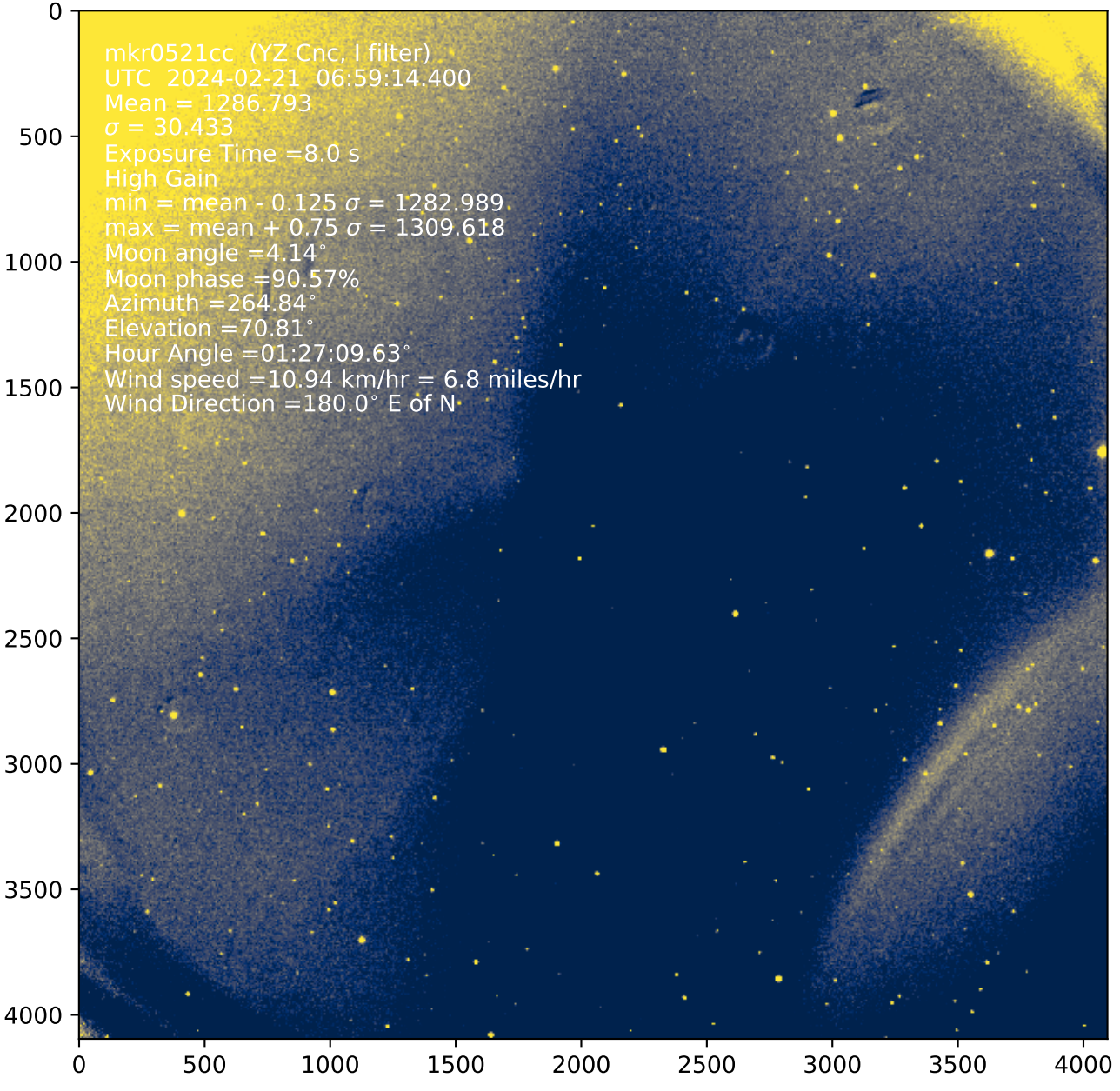
mkr0521cc (YZ Cnc, I filter)
UTC 2024-02-21 06:59:14.400
Mean = 1286.793
σ = 30.433
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1282.989
max = mean + 0.75 σ = 1309.618
Moon angle =4.14°
Moon phase =90.57%
Azimuth =264.84°
Elevation =70.81°
Hour Angle =01:27:09.63°
Wind speed =10.94 km/hr = 6.8 miles/hr
Wind Direction =180.0° E of N
0
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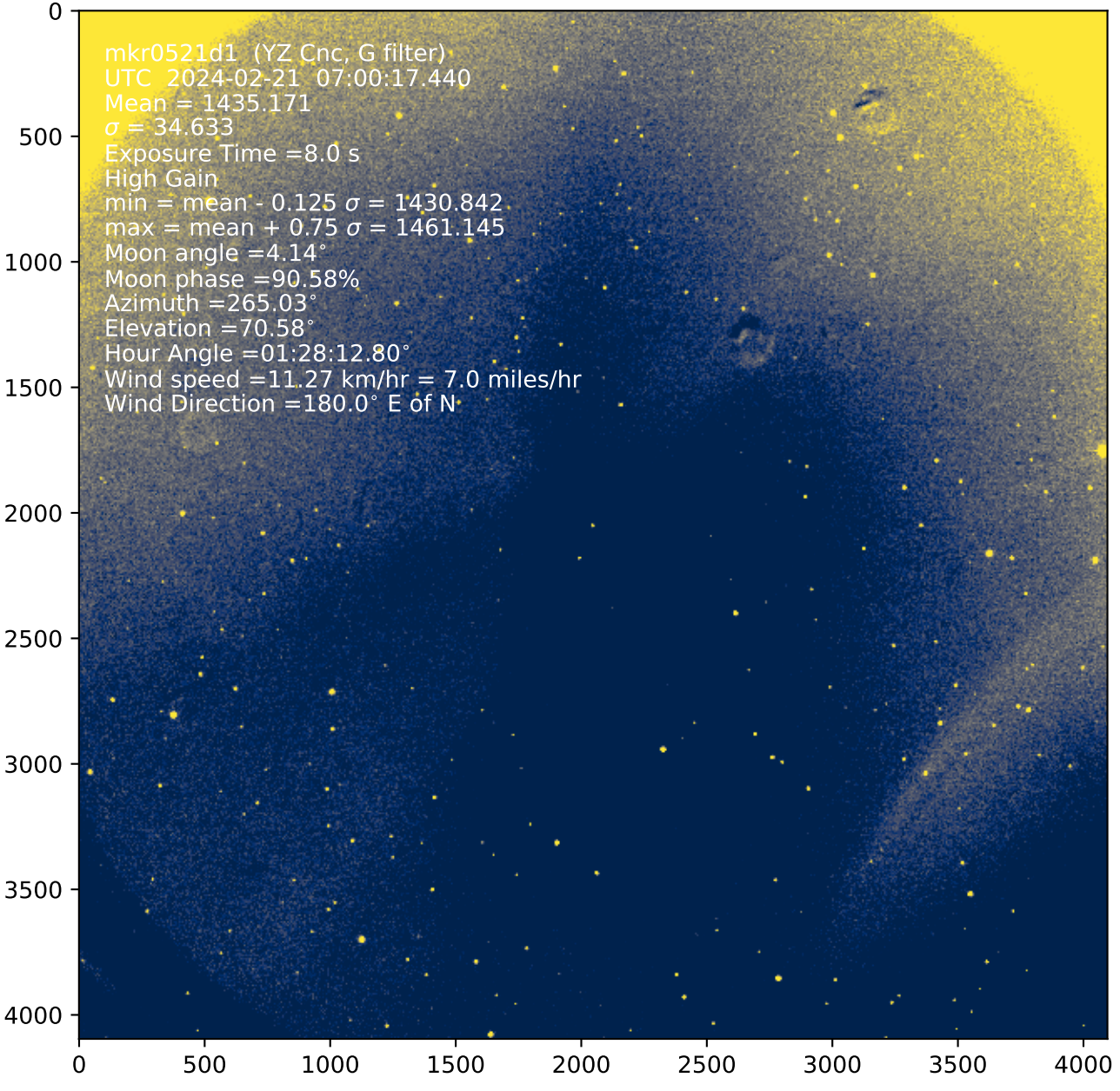
mkr0521d1 (YZ Cnc, G filter)
UTC 2024-02-21 07:00:17.440
Mean = 1435.171
σ = 34.633
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1430.842
max = mean + 0.75 σ = 1461.145
Moon angle =4.14°
Moon phase =90.58%
Azimuth =265.03°
Elevation =70.58°
Hour Angle =01:28:12.80°
Wind speed =11.27 km/hr = 7.0 miles/hr
Wind Direction =180.0° E of N
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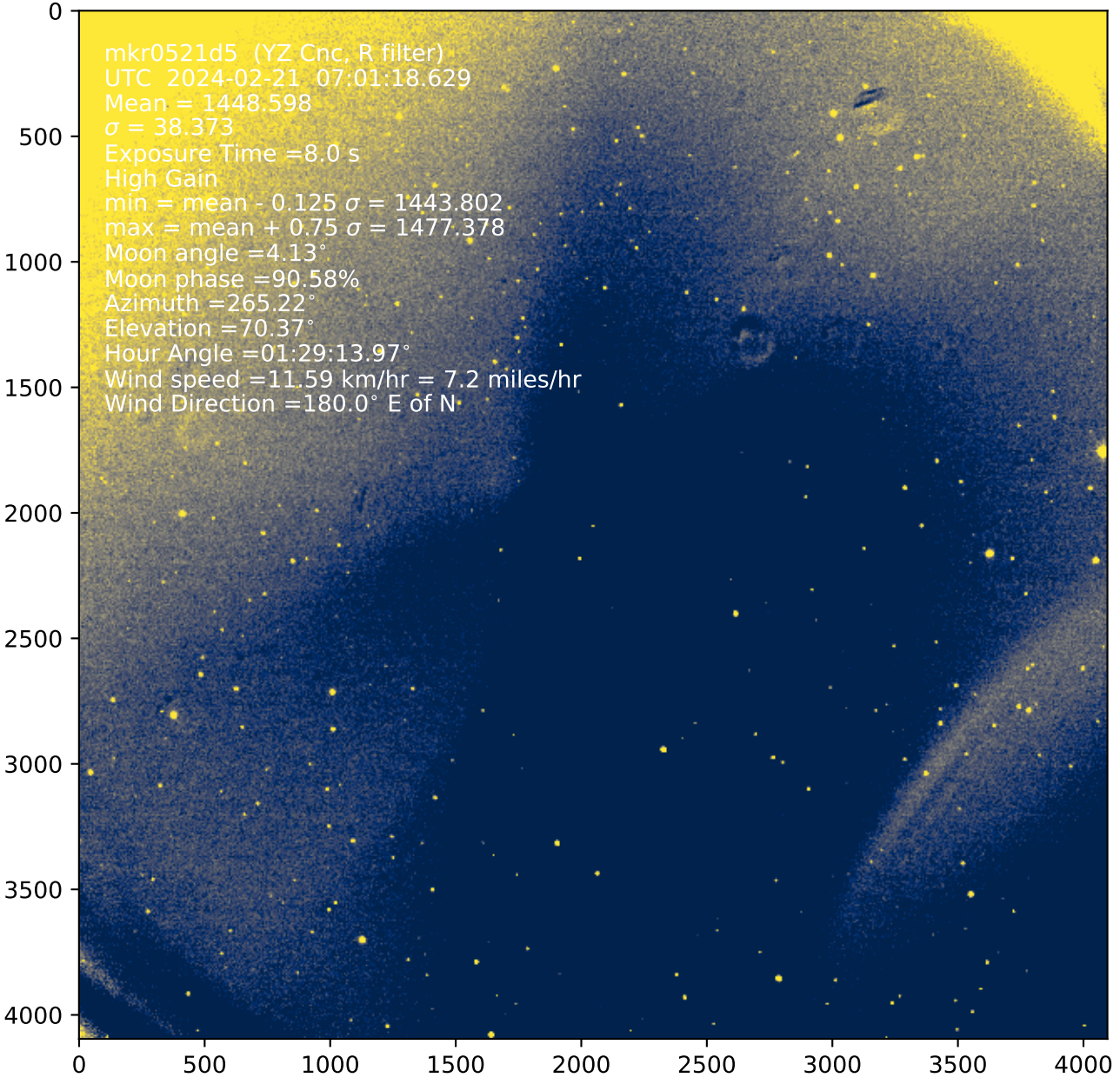
mkr0521d5 (YZ Cnc, R filter)
UTC 2024-02-21 07:01:18.629
Mean = 1448.598
σ = 38.373
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1443.802
max = mean + 0.75 σ = 1477.378
Moon angle =4.13°
Moon phase =90.58%
Azimuth =265.22°
Elevation =70.37°
Hour Angle =01:29:13.97°
Wind speed =11.59 km/hr = 7.2 miles/hr
Wind Direction =180.0° E of N
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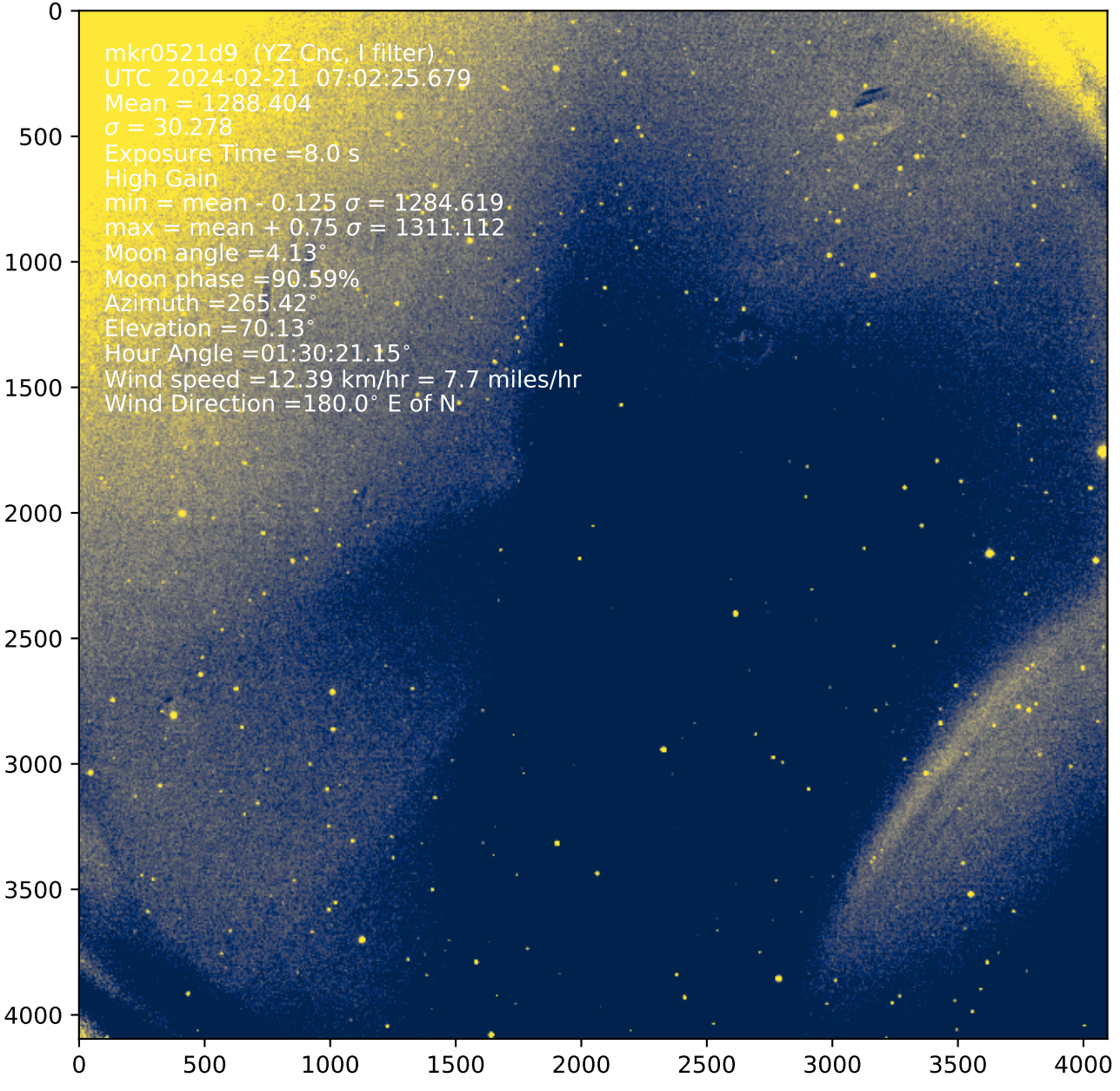
mkr0521d9 (YZ Cnc, I filter)
UTC 2024-02-21 07:02:25.679
Mean = 1288.404
σ = 30.278
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1284.619
max = mean + 0.75 σ = 1311.112
Moon angle =4.13°
Moon phase =90.59%
Azimuth =265.42°
Elevation =70.13°
Hour Angle =01:30:21.15°
Wind speed =12.39 km/hr = 7.7 miles/hr
Wind Direction =180.0° E of N
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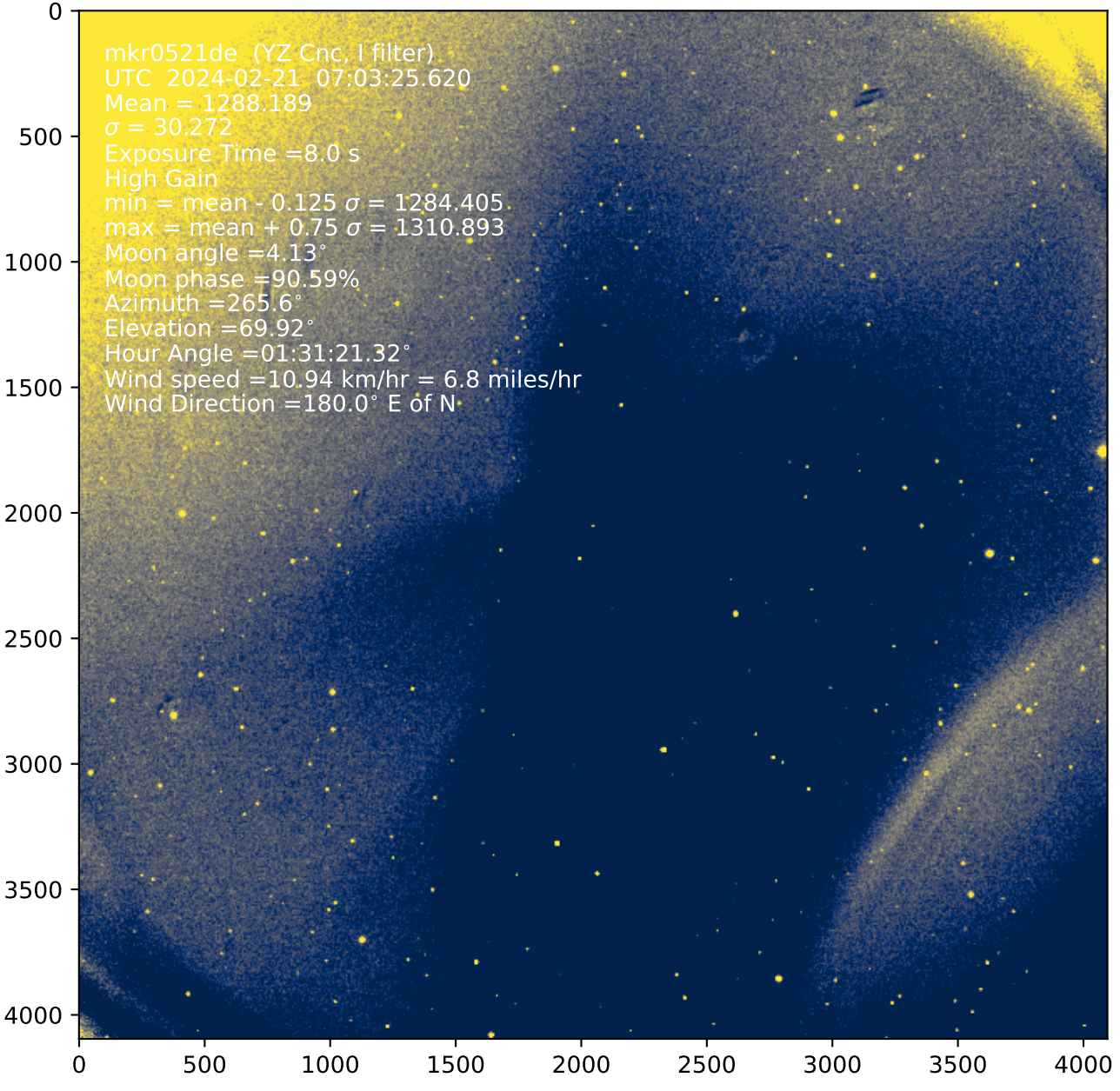
mkr0521de (YZ Cnc, I filter)
UTC 2024-02-21 07:03:25.620
Mean = 1288.189
σ = 30.272
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1284.405
max = mean + 0.75 σ = 1310.893
Moon angle =4.13°
Moon phase =90.59%
Azimuth =265.6°
Elevation =69.92°
Hour Angle =01:31:21.32°
Wind speed =10.94 km/hr = 6.8 miles/hr
Wind Direction =180.0° E of N
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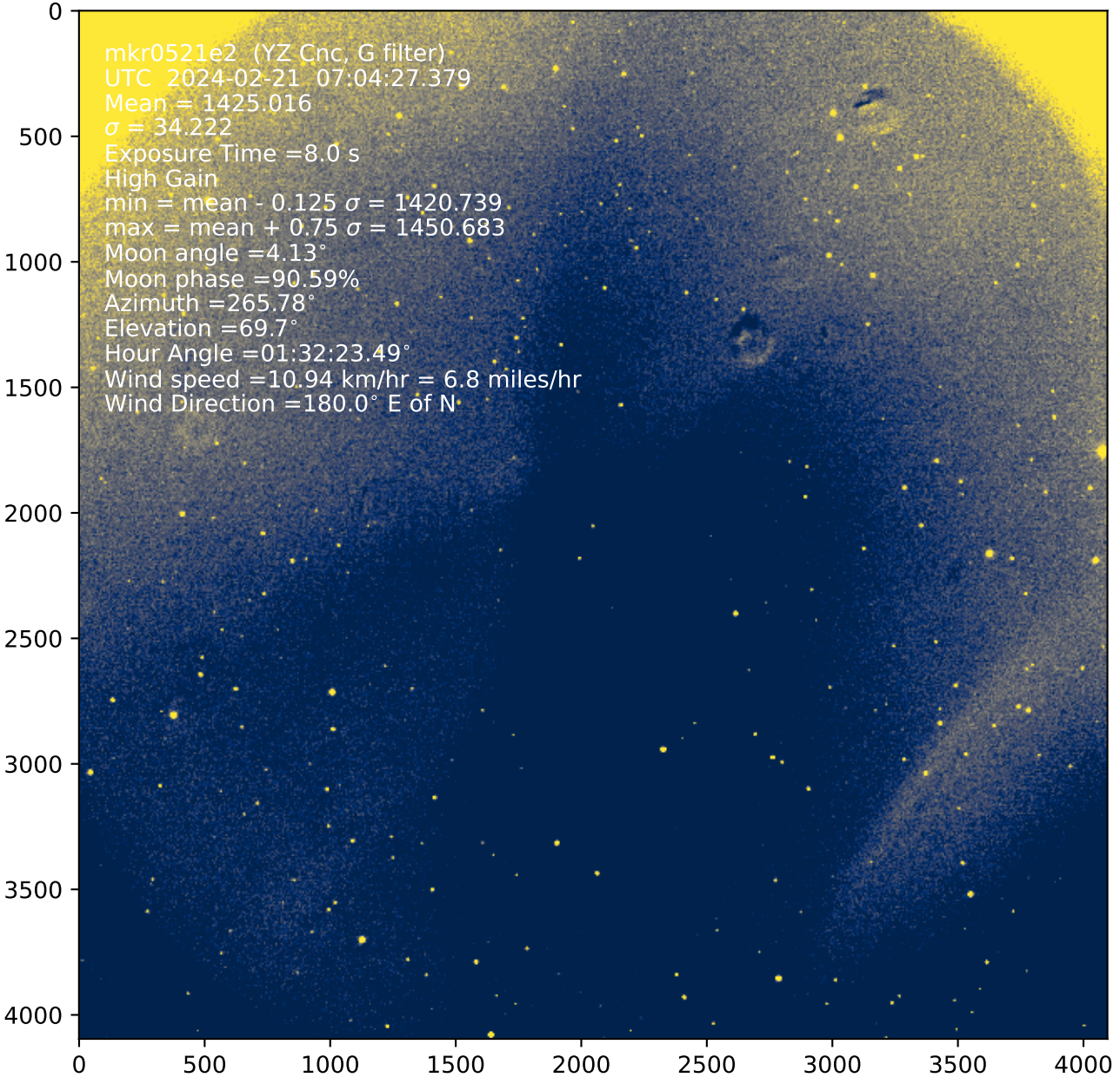
mkr0521e2 (YZ Cnc, G filter)
UTC 2024-02-21 07:04:27.379
Mean = 1425.016
σ = 34.222
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1420.739
max = mean + 0.75 σ = 1450.683
Moon angle =4.13°
Moon phase =90.59%
Azimuth =265.78°
Elevation =69.7°
Hour Angle =01:32:23.49°
Wind speed =10.94 km/hr = 6.8 miles/hr
Wind Direction =180.0° E of N
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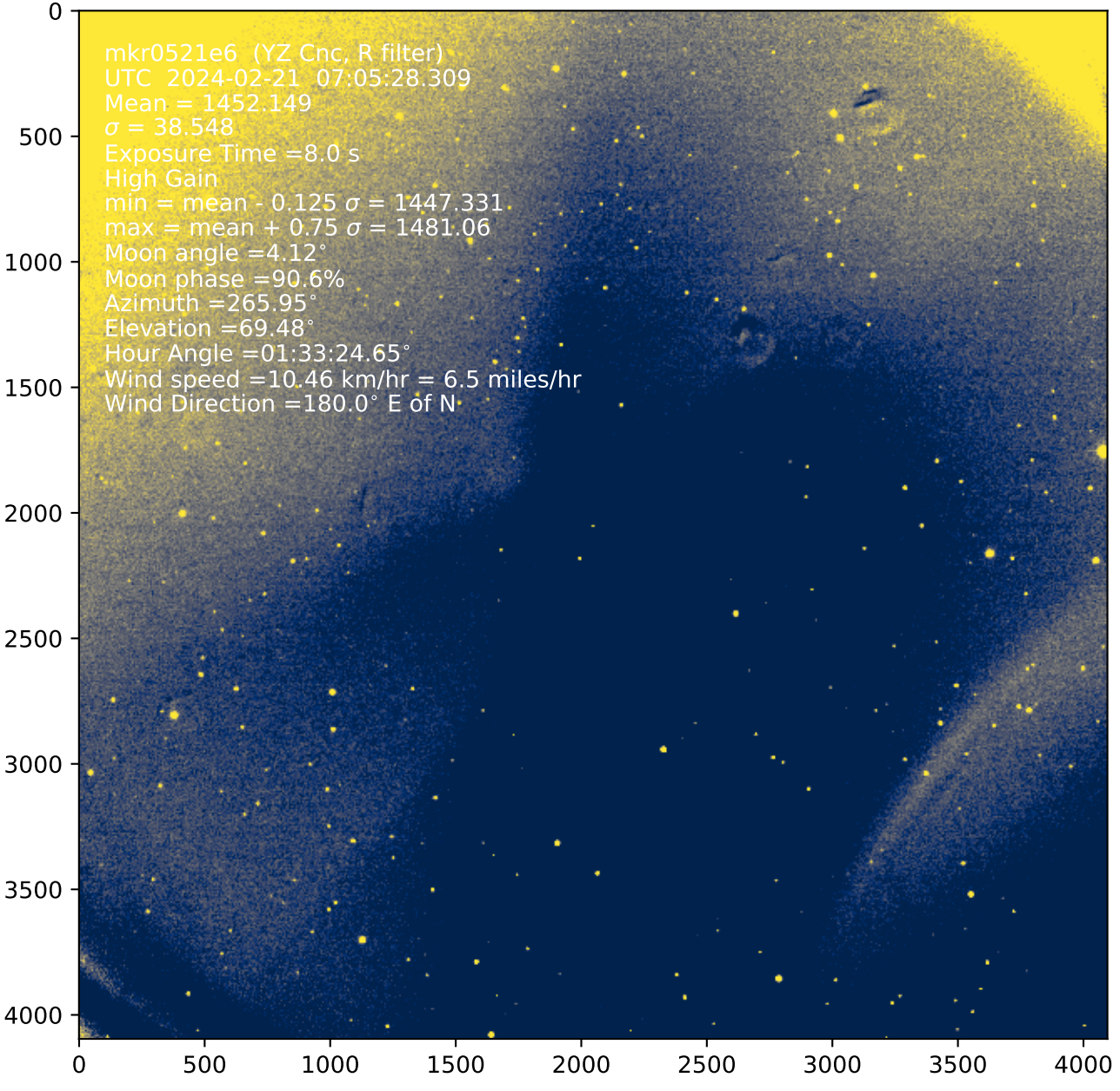
mkr0521e6 (YZ Cnc, R filter)
UTC 2024-02-21 07:05:28.309
Mean = 1452.149
σ = 38.548
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1447.331
max = mean + 0.75 σ = 1481.06
Moon angle =4.12°
Moon phase =90.6%
Azimuth =265.95°
Elevation =69.48°
Hour Angle =01:33:24.65°
Wind speed =10.46 km/hr = 6.5 miles/hr
Wind Direction =180.0° E of N
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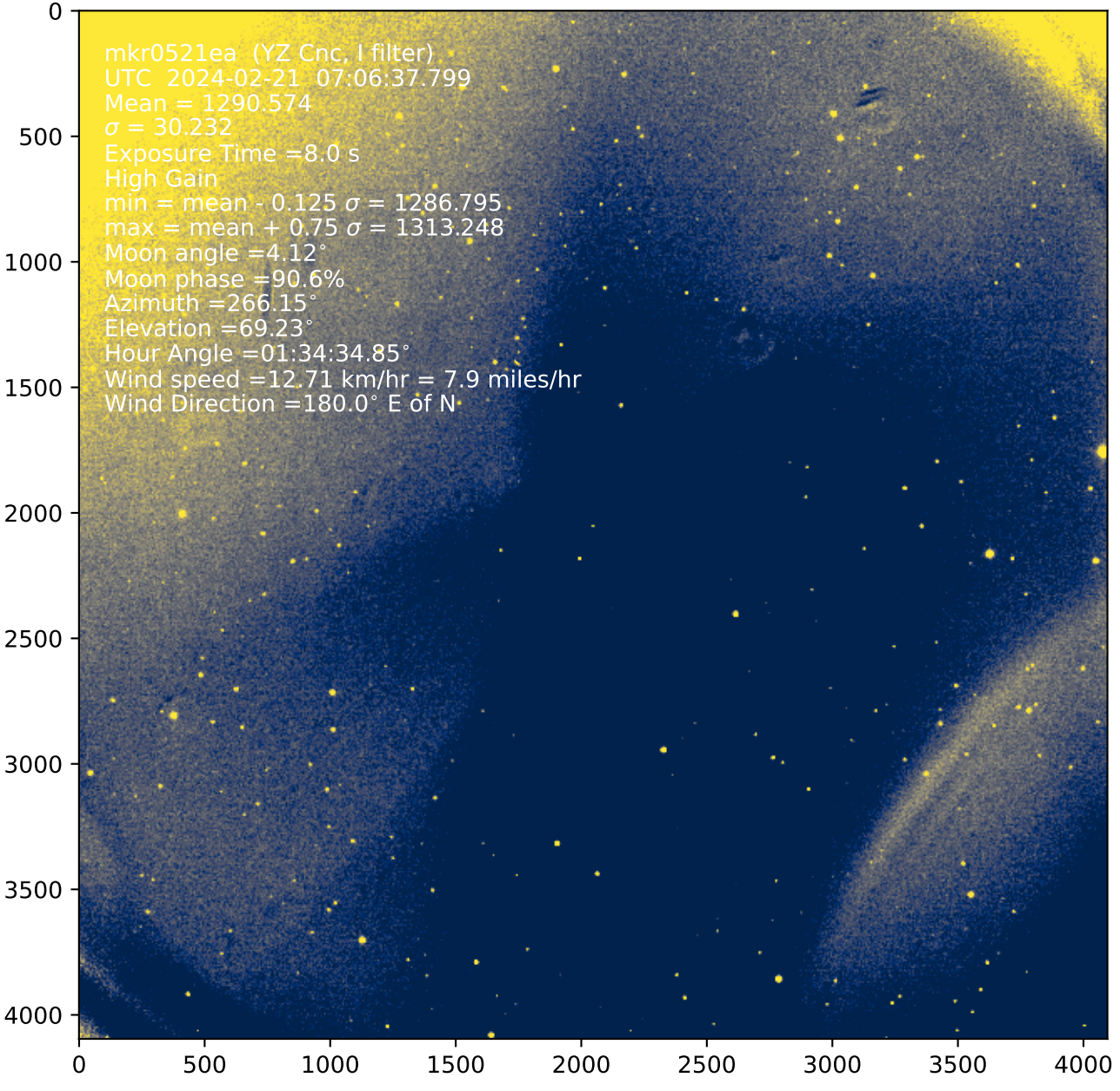
mkr0521ea (YZ Cnc, I filter)
UTC 2024-02-21 07:06:37.799
Mean = 1290.574
σ = 30.232
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1286.795
max = mean + 0.75 σ = 1313.248
Moon angle =4.12°
Moon phase =90.6%
Azimuth =266.15°
Elevation =69.23°
Hour Angle =01:34:34.85°
Wind speed =12.71 km/hr = 7.9 miles/hr
Wind Direction =180.0° E of N
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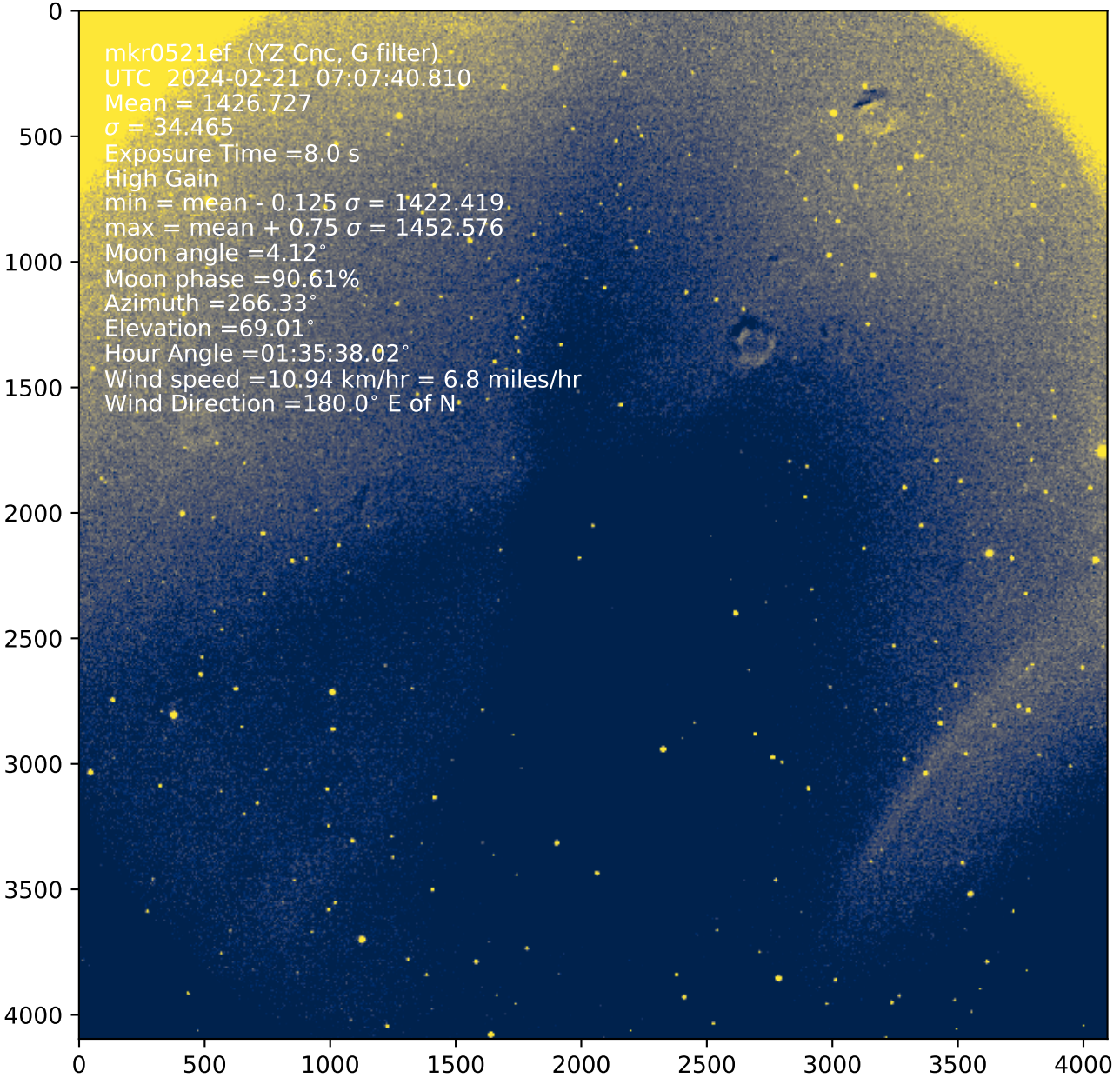
mkr0521ef (YZ Cnc, G filter)
UTC 2024-02-21 07:07:40.810
Mean = 1426.727
σ = 34.465
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1422.419
max = mean + 0.75 σ = 1452.576
Moon angle =4.12°
Moon phase =90.61%
Azimuth =266.33°
Elevation =69.01°
Hour Angle =01:35:38.02°
Wind speed =10.94 km/hr = 6.8 miles/hr
Wind Direction =180.0° E of N
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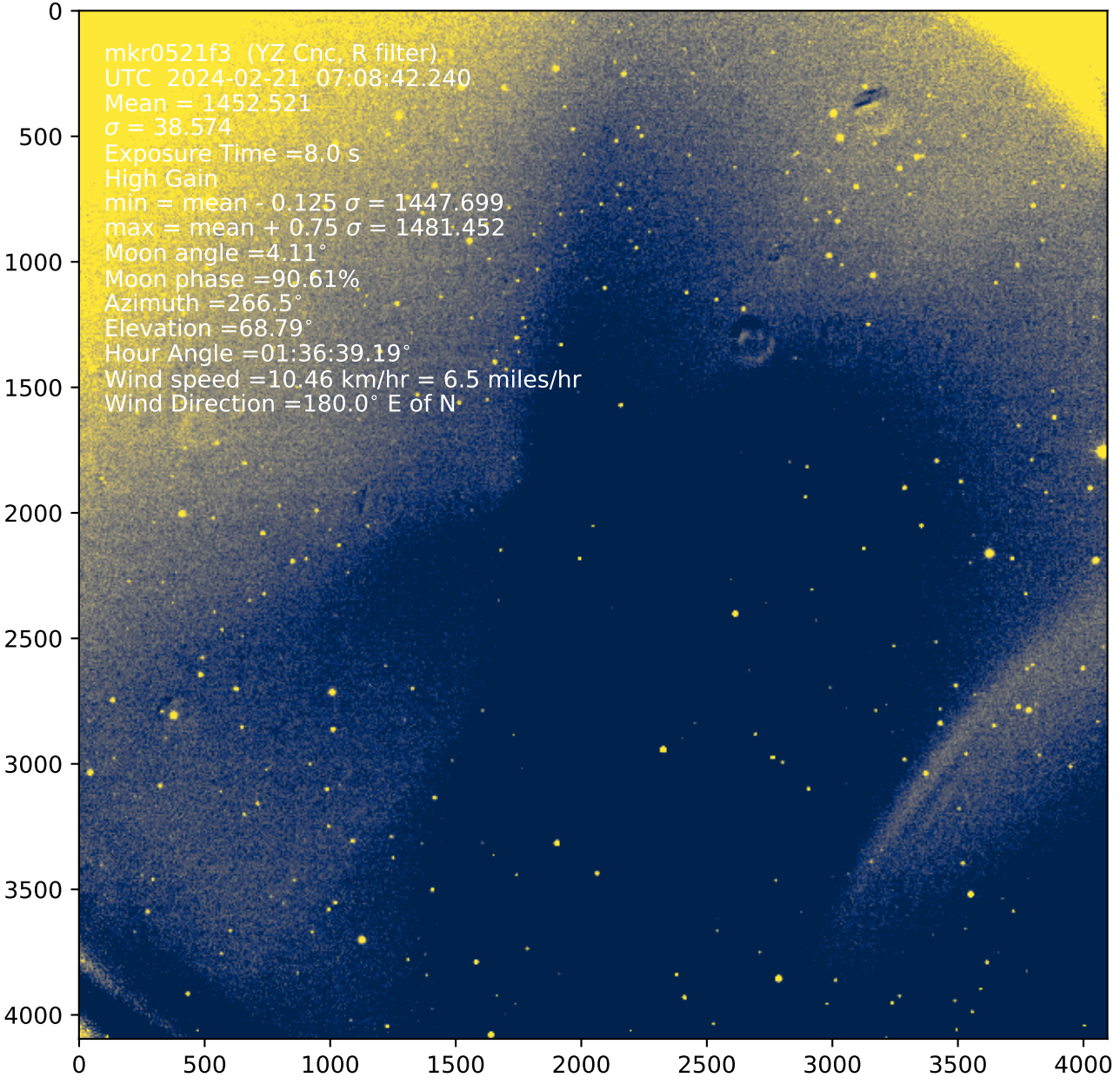
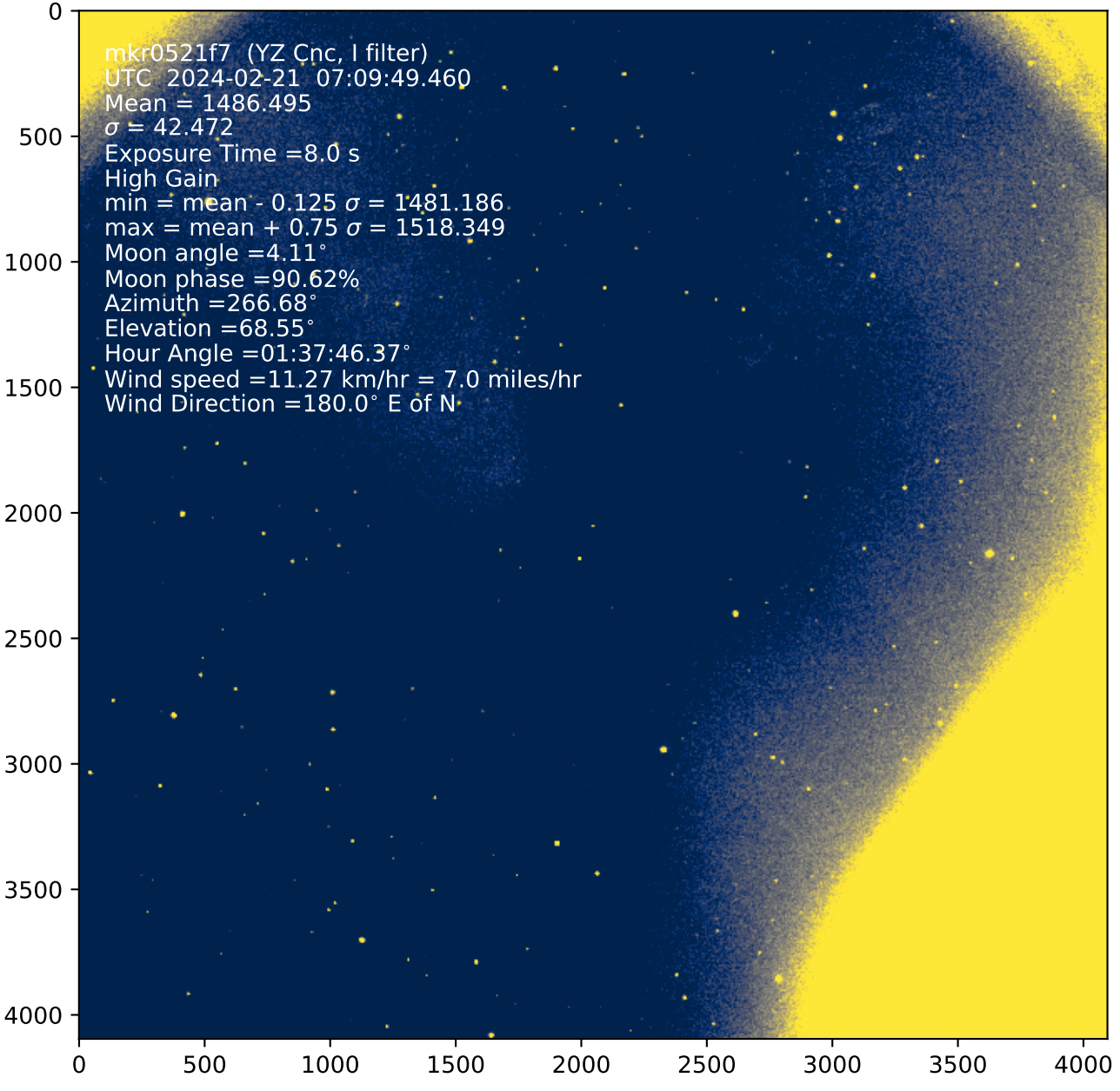
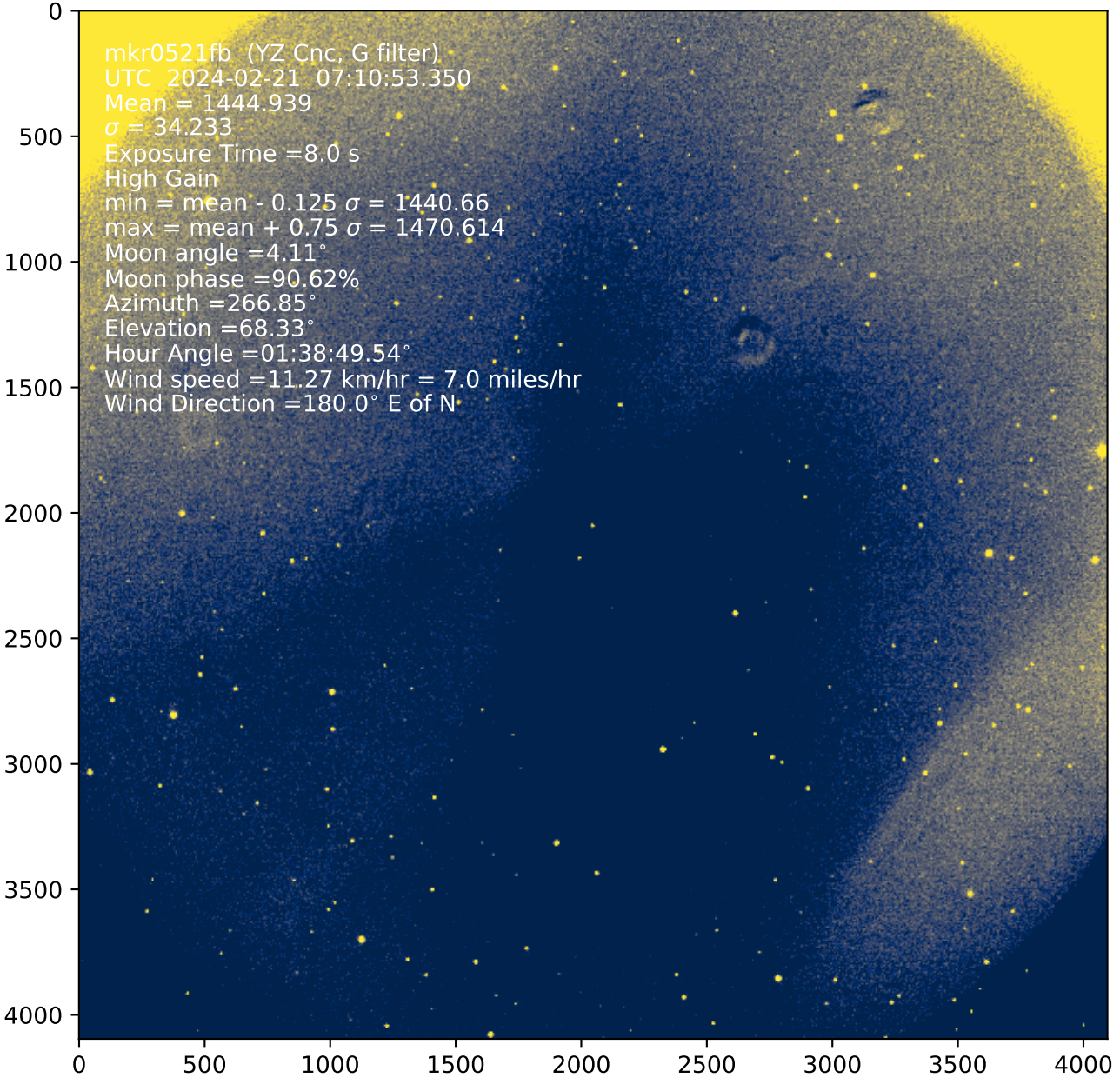
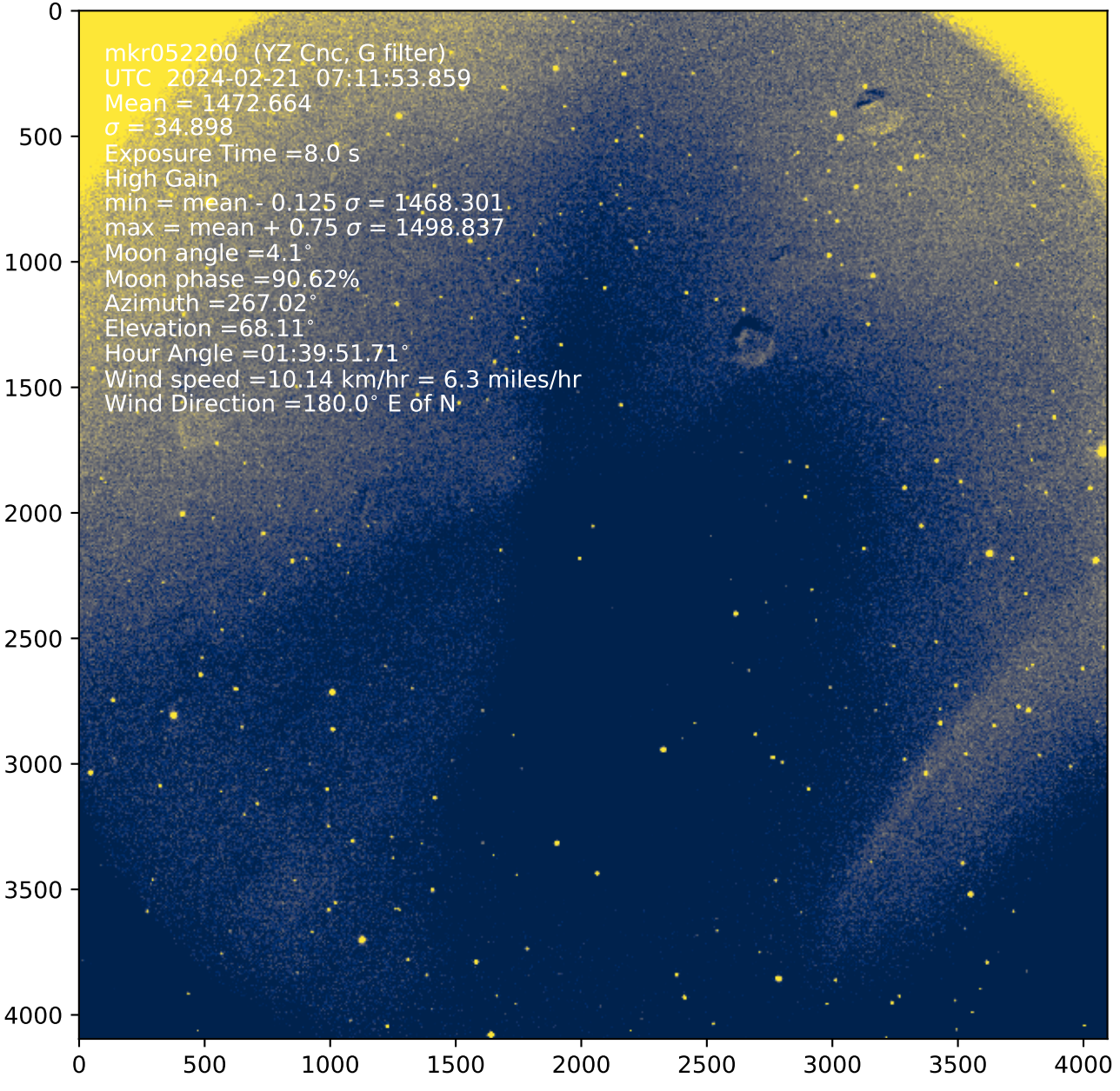
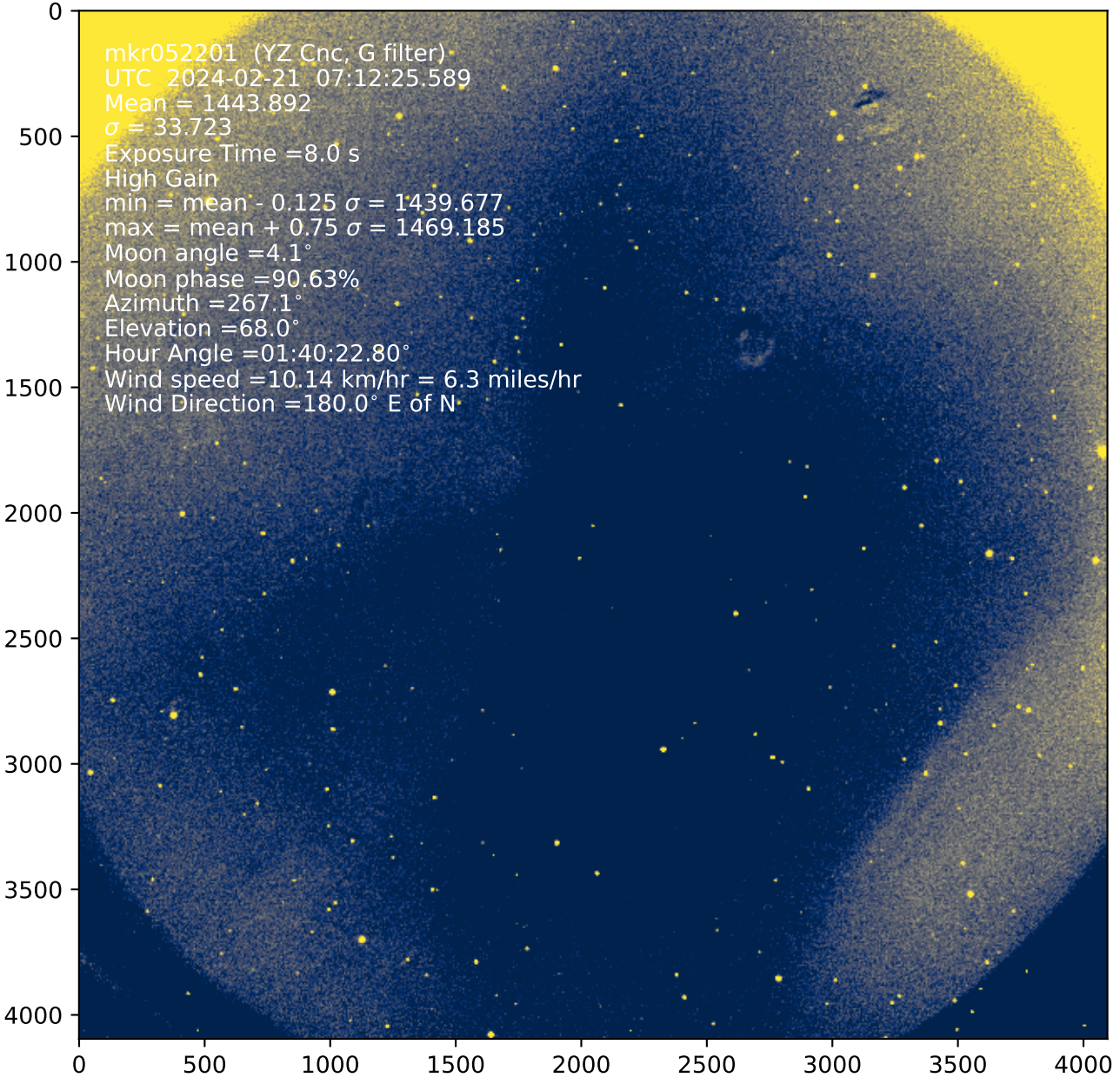
3500
4000

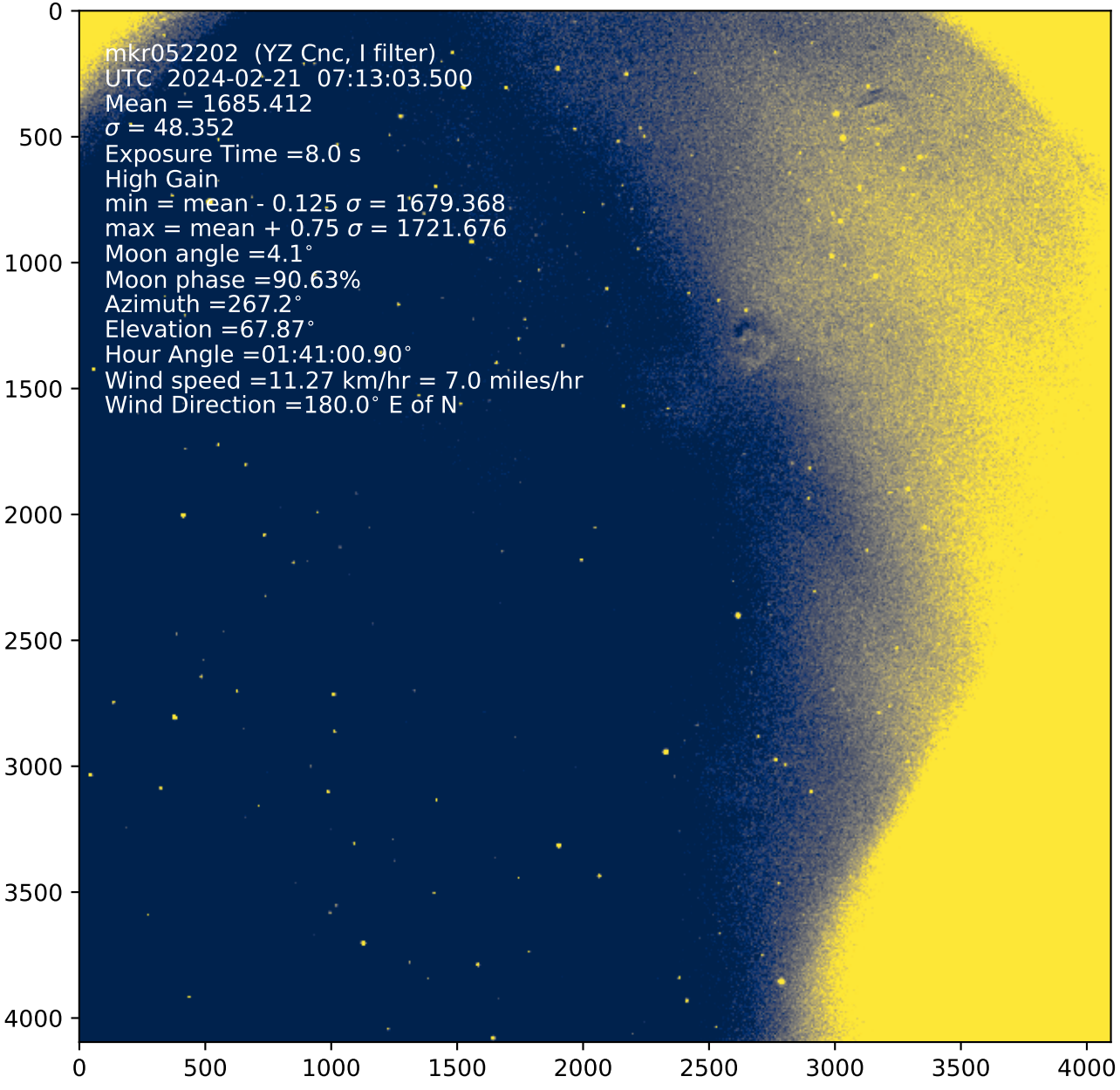

mkr0521f3 (YZ Cnc, R filter)
UTC 2024-02-21 07:08:42.240
Mean = 1452.521
σ = 38.574
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1447.699
max = mean + 0.75 σ = 1481.452
Moon angle =4.11°
Moon phase =90.61%
Azimuth =266.5°
Elevation =68.79°
Hour Angle =01:36:39.19°
Wind speed =10.46 km/hr = 6.5 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr0521f7 (YZ Cnc, I filter)
UTC 2024-02-21 07:09:49.460
Mean = 1486.495
σ = 42.472
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1481.186
max = mean + 0.75 σ = 1518.349
Moon angle =4.11°
Moon phase =90.62%
Azimuth =266.68°
Elevation =68.55°
Hour Angle =01:37:46.37°
Wind speed =11.27 km/hr = 7.0 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr0521fb (YZ Cnc, G filter)
UTC 2024-02-21 07:10:53.350
Mean = 1444.939
σ = 34.233
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1440.66
max = mean + 0.75 σ = 1470.614
Moon angle =4.11°
Moon phase =90.62%
Azimuth =266.85°
Elevation =68.33°
Hour Angle =01:38:49.54°
Wind speed =11.27 km/hr = 7.0 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr052200 (YZ Cnc, G filter)
UTC 2024-02-21 07:11:53.859
Mean = 1472.664
σ = 34.898
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1468.301
max = mean + 0.75 σ = 1498.837
Moon angle =4.1°
Moon phase =90.62%
Azimuth =267.02°
Elevation =68.11°
Hour Angle =01:39:51.71°
Wind speed =10.14 km/hr = 6.3 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr052201 (YZ Cnc, G filter)
UTC 2024-02-21 07:12:25.589
Mean = 1443.892
σ = 33.723
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1439.677
max = mean + 0.75 σ = 1469.185
Moon angle =4.1°
Moon phase =90.63%
Azimuth =267.1°
Elevation =68.0°
Hour Angle =01:40:22.80°
Wind speed =10.14 km/hr = 6.3 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr052202 (YZ Cnc, I filter)
UTC 2024-02-21 07:13:03.500
Mean = 1685.412
σ = 48.352
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1679.368
max = mean + 0.75 σ = 1721.676
Moon angle =4.1°
Moon phase =90.63%
Azimuth =267.2°
Elevation =67.87°
Hour Angle =01:41:00.90°
Wind speed =11.27 km/hr = 7.0 miles/hr
Wind Direction =180.0° E of N
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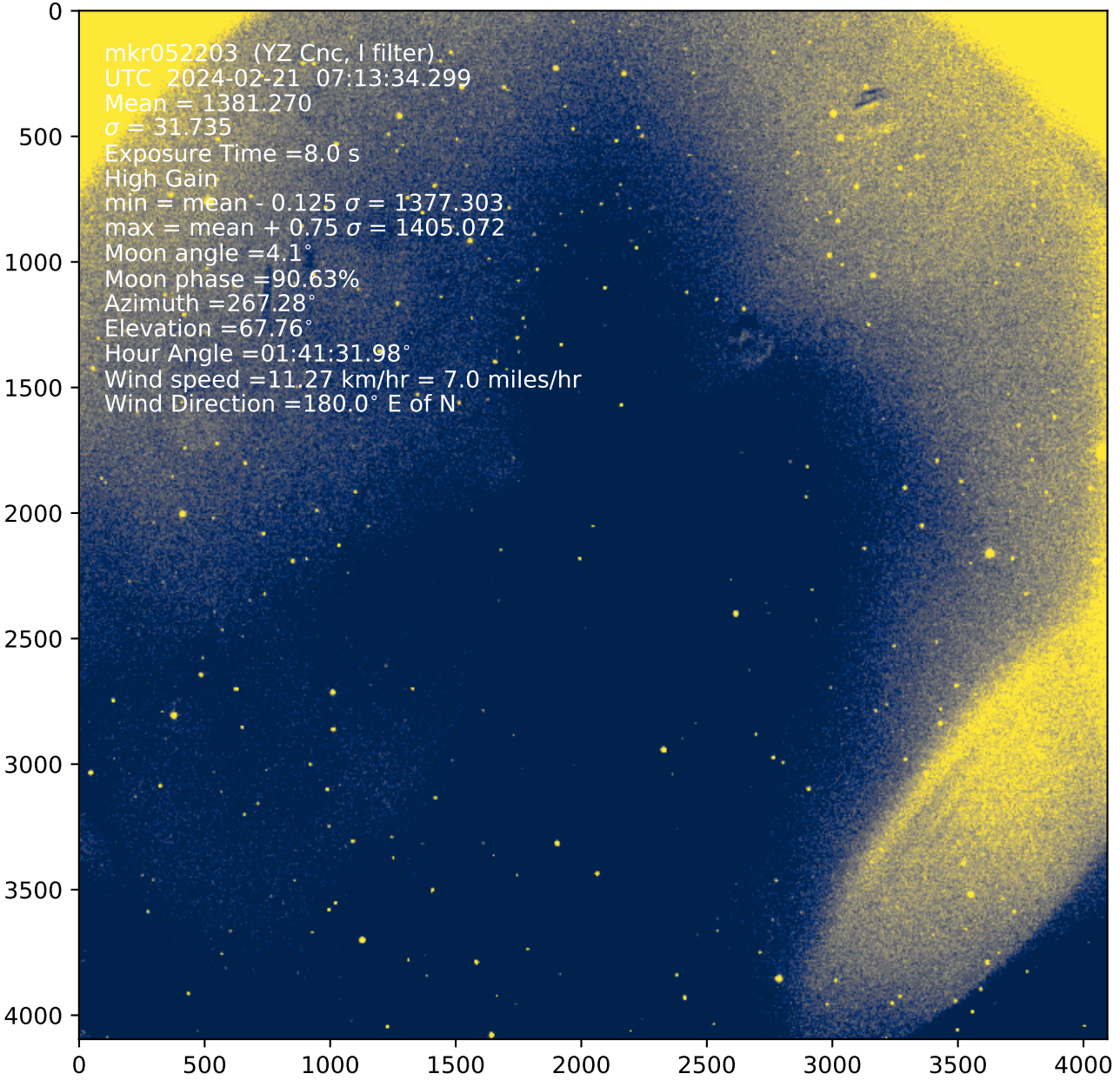
2500
3000
3500
4000


mkr052203 (YZ Cnc, I filter)
UTC 2024-02-21 07:13:34.299
Mean = 1381.270
σ = 31.735
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1377.303
max = mean + 0.75 σ = 1405.072
Moon angle =4.1˚
Moon phase =90.63%
Azimuth =267.28˚
Elevation =67.76˚
Hour Angle =01:41:31.98˚
Wind speed =11.27 km/hr = 7.0 miles/hr
Wind Direction =180.0˚ E of N
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2500
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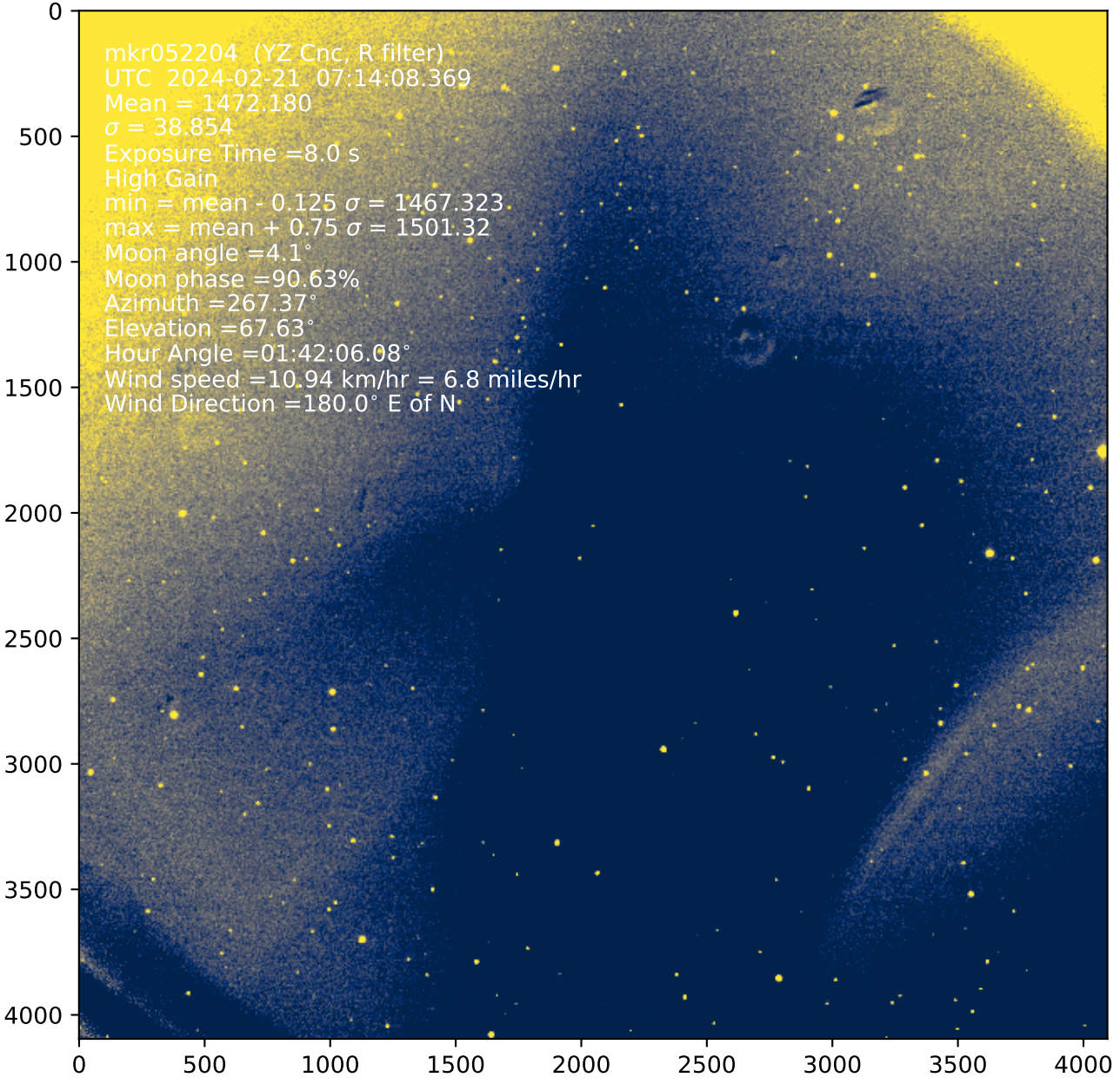
3500
4000


mkr052204 (YZ Cnc, R filter)
UTC 2024-02-21 07:14:08.369
Mean = 1472.180
σ = 38.854
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1467.323
max = mean + 0.75 σ = 1501.32
Moon angle =4.1°
Moon phase =90.63%
Azimuth =267.37°
Elevation =67.63°
Hour Angle =01:42:06.08°
Wind speed =10.94 km/hr = 6.8 miles/hr
Wind Direction =180.0° E of N
0
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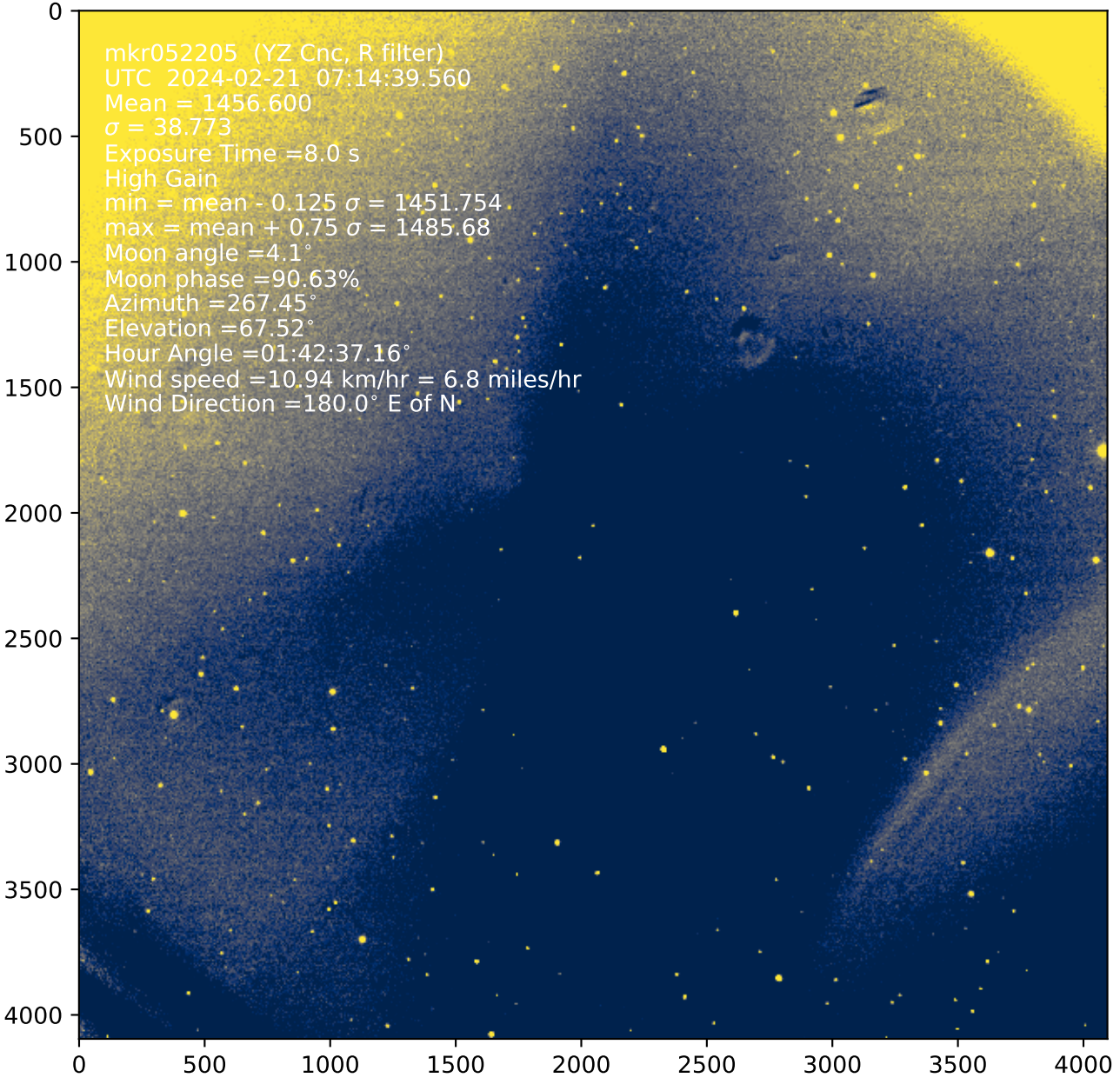
3000
3500
4000


mkr052205 (YZ Cnc, R filter)
UTC 2024-02-21 07:14:39.560
Mean = 1456.600
σ = 38.773
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1451.754
max = mean + 0.75 σ = 1485.68
Moon angle =4.1˚
Moon phase =90.63%
Azimuth =267.45˚
Elevation =67.52˚
Hour Angle =01:42:37.16˚
Wind speed =10.94 km/hr = 6.8 miles/hr
Wind Direction =180.0˚ E of N
0
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2500
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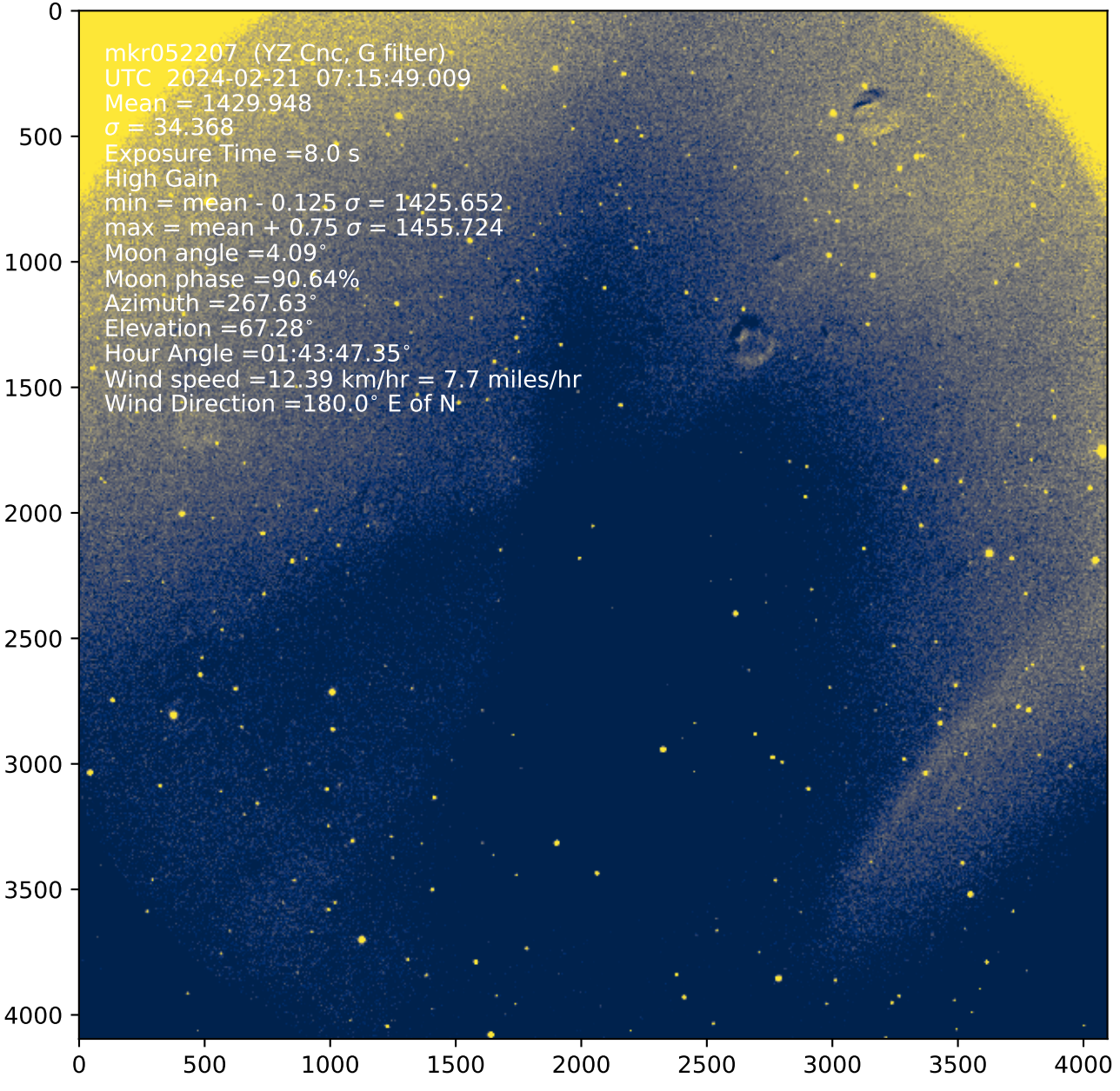
4000


mkr052207 (YZ Cnc, G filter)
UTC 2024-02-21 07:15:49.009
Mean = 1429.948
σ = 34.368
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1425.652
max = mean + 0.75 σ = 1455.724
Moon angle =4.09°
Moon phase =90.64%
Azimuth =267.63°
Elevation =67.28°
Hour Angle =01:43:47.35°
Wind speed =12.39 km/hr = 7.7 miles/hr
Wind Direction =180.0° E of N
0
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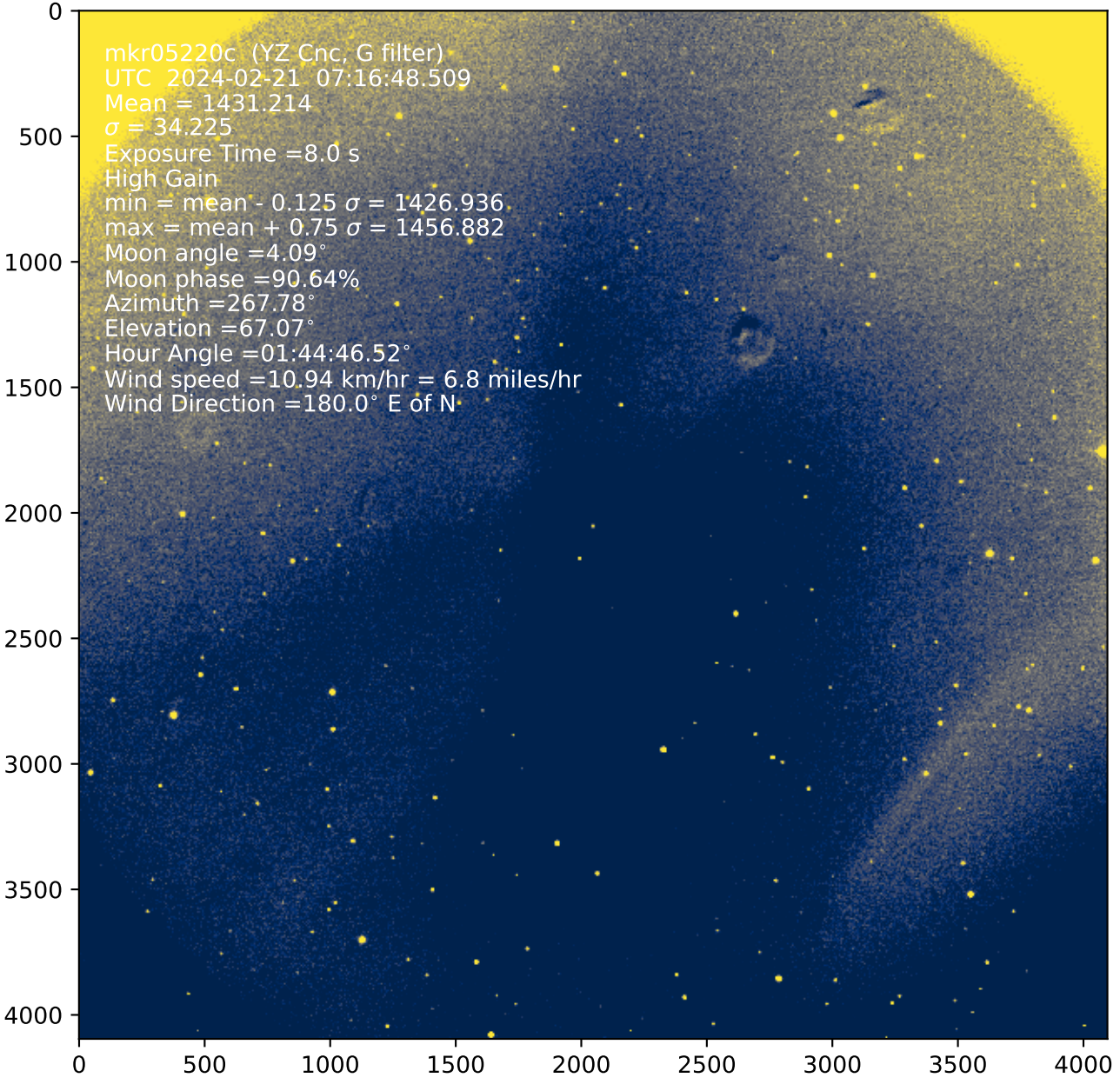
2500
3000
3500
4000


mkr05220c (YZ Cnc, G filter)
UTC 2024-02-21 07:16:48.509
Mean = 1431.214
σ = 34.225
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1426.936
max = mean + 0.75 σ = 1456.882
Moon angle =4.09°
Moon phase =90.64%
Azimuth =267.78°
Elevation =67.07°
Hour Angle =01:44:46.52°
Wind speed =10.94 km/hr = 6.8 miles/hr
Wind Direction =180.0° E of N
0
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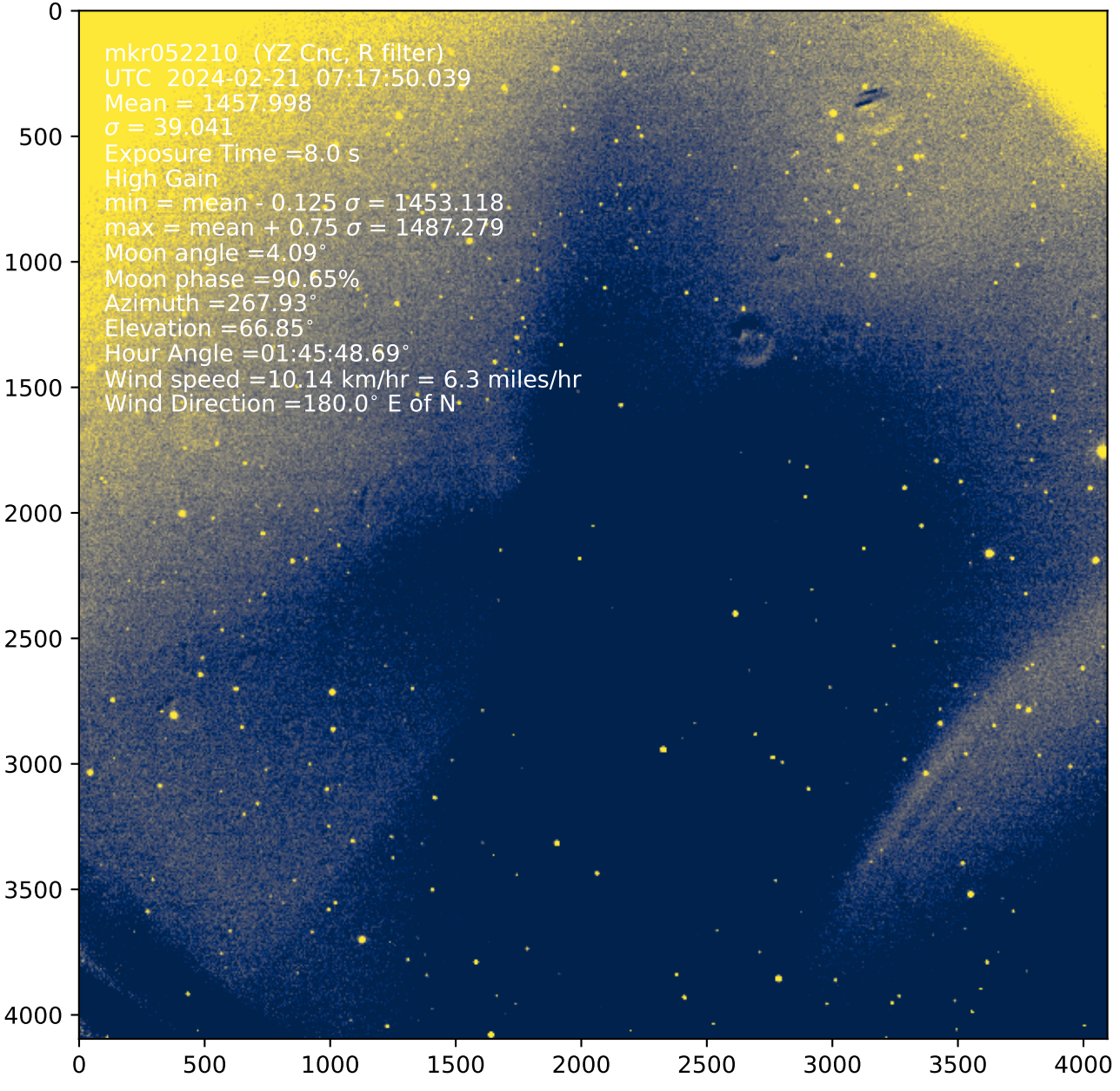
3500
4000


mkr052210 (YZ Cnc, R filter)
UTC 2024-02-21 07:17:50.039
Mean = 1457.998
σ = 39.041
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1453.118
max = mean + 0.75 σ = 1487.279
Moon angle =4.09°
Moon phase =90.65%
Azimuth =267.93°
Elevation =66.85°
Hour Angle =01:45:48.69°
Wind speed =10.14 km/hr = 6.3 miles/hr
Wind Direction =180.0° E of N
0
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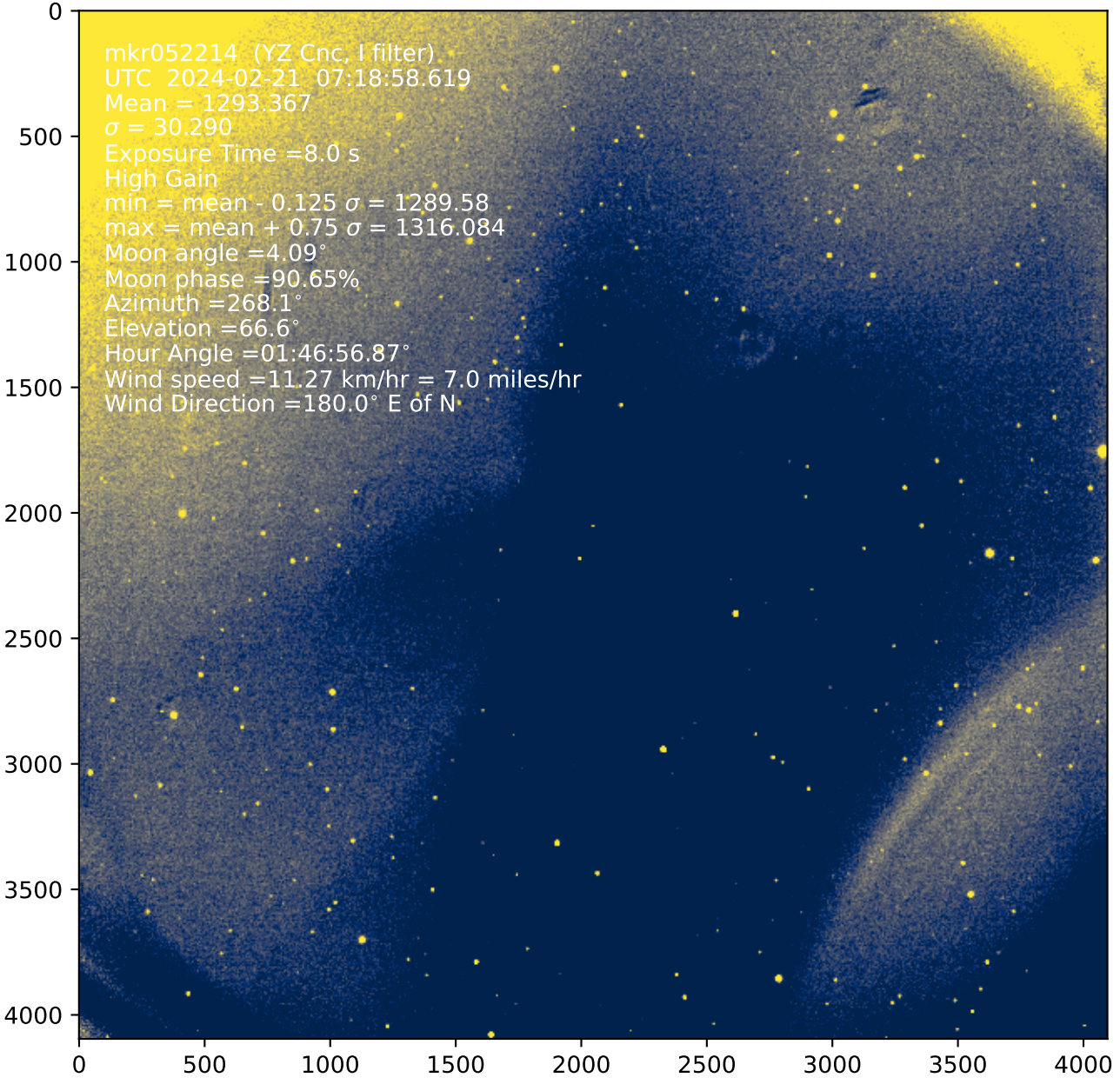
2500
3000
3500
4000


mkr052214 (YZ Cnc, I filter)
UTC 2024-02-21 07:18:58.619
Mean = 1293.367
σ = 30.290
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1289.58
max = mean + 0.75 σ = 1316.084
Moon angle =4.09°
Moon phase =90.65%
Azimuth =268.1°
Elevation =66.6°
Hour Angle =01:46:56.87°
Wind speed =11.27 km/hr = 7.0 miles/hr
Wind Direction =180.0° E of N
0
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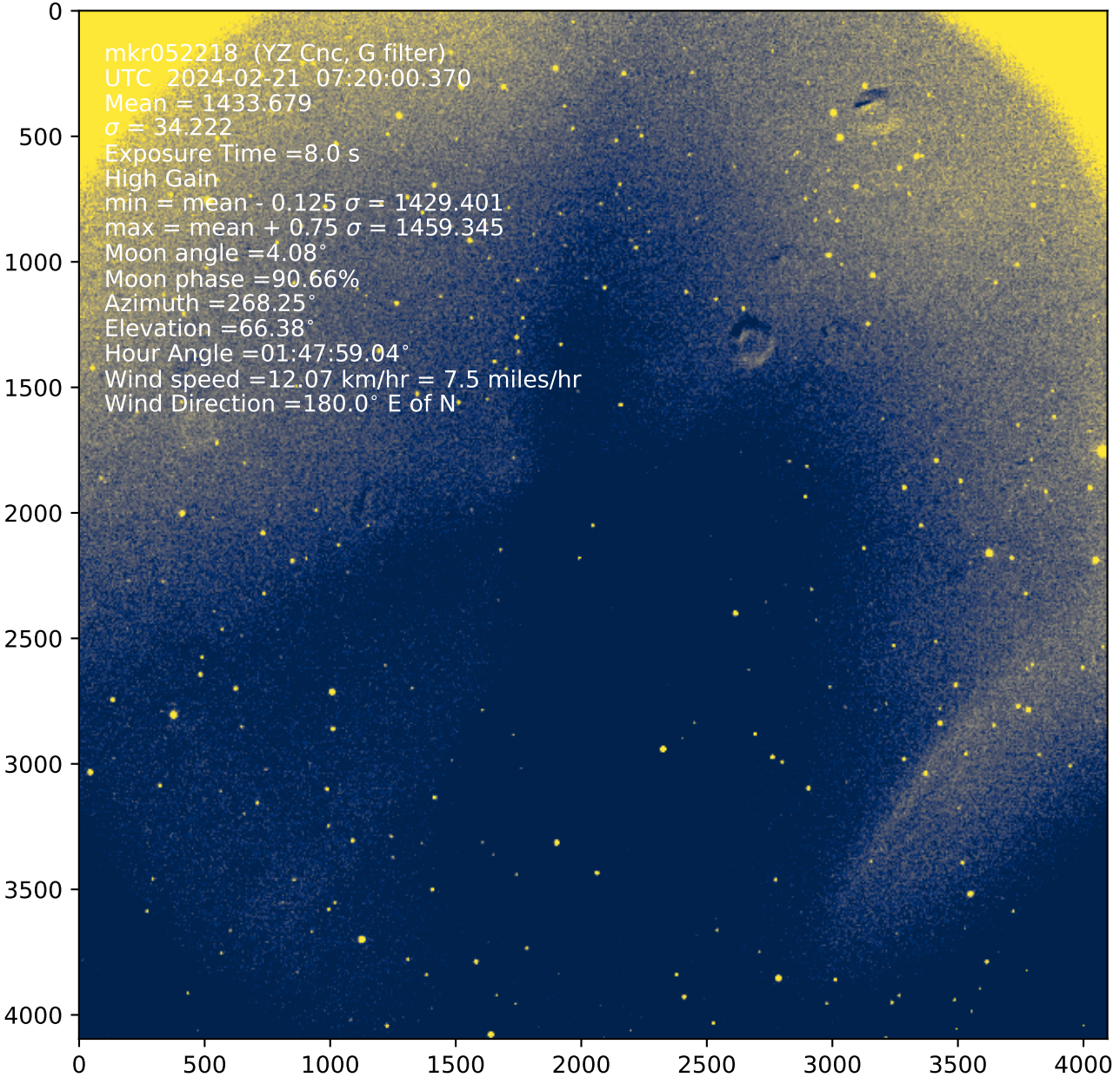
2500
3000
3500
4000


mkr052218 (YZ Cnc, G filter)
UTC 2024-02-21 07:20:00.370
Mean = 1433.679
σ = 34.222
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1429.401
max = mean + 0.75 σ = 1459.345
Moon angle =4.08°
Moon phase =90.66%
Azimuth =268.25°
Elevation =66.38°
Hour Angle =01:47:59.04°
Wind speed =12.07 km/hr = 7.5 miles/hr
Wind Direction =180.0° E of N
0
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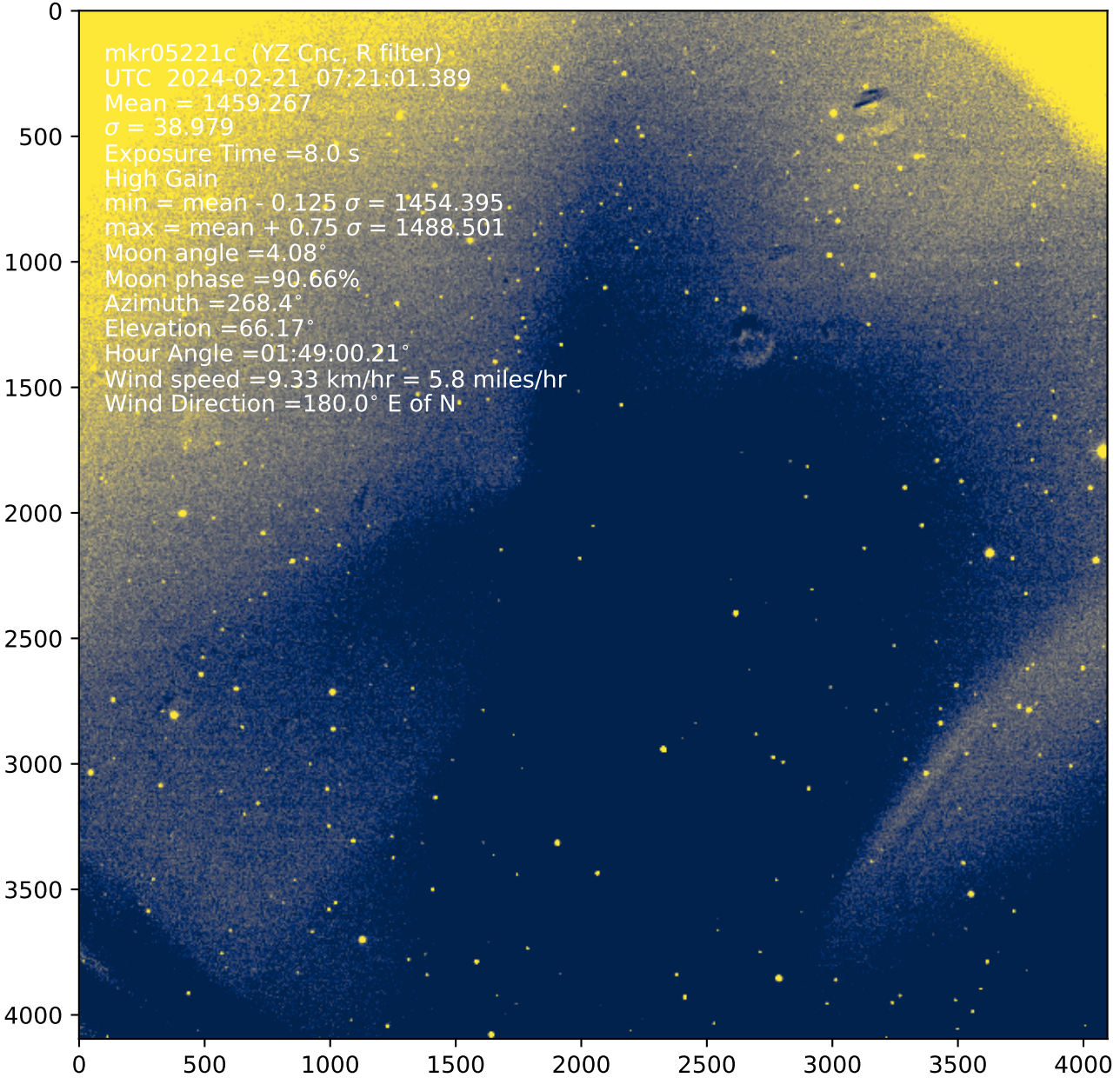
2500
3000
3500
4000


mkr05221c (YZ Cnc, R filter)
UTC 2024-02-21 07:21:01.389
Mean = 1459.267
σ = 38.979
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1454.395
max = mean + 0.75 σ = 1488.501
Moon angle =4.08°
Moon phase =90.66%
Azimuth =268.4°
Elevation =66.17°
Hour Angle =01:49:00.21°
Wind speed =9.33 km/hr = 5.8 miles/hr
Wind Direction =180.0° E of N
0
500
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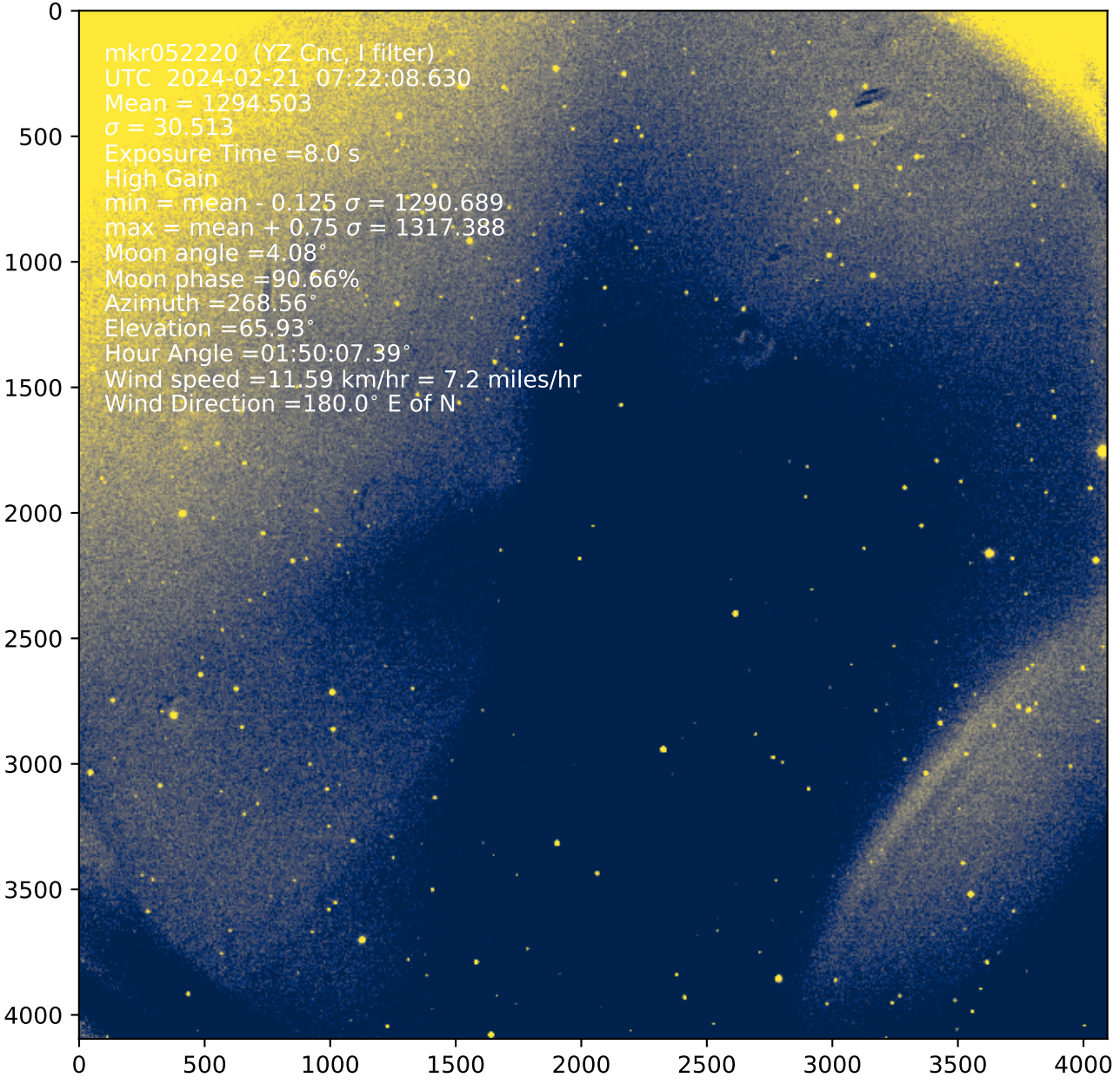
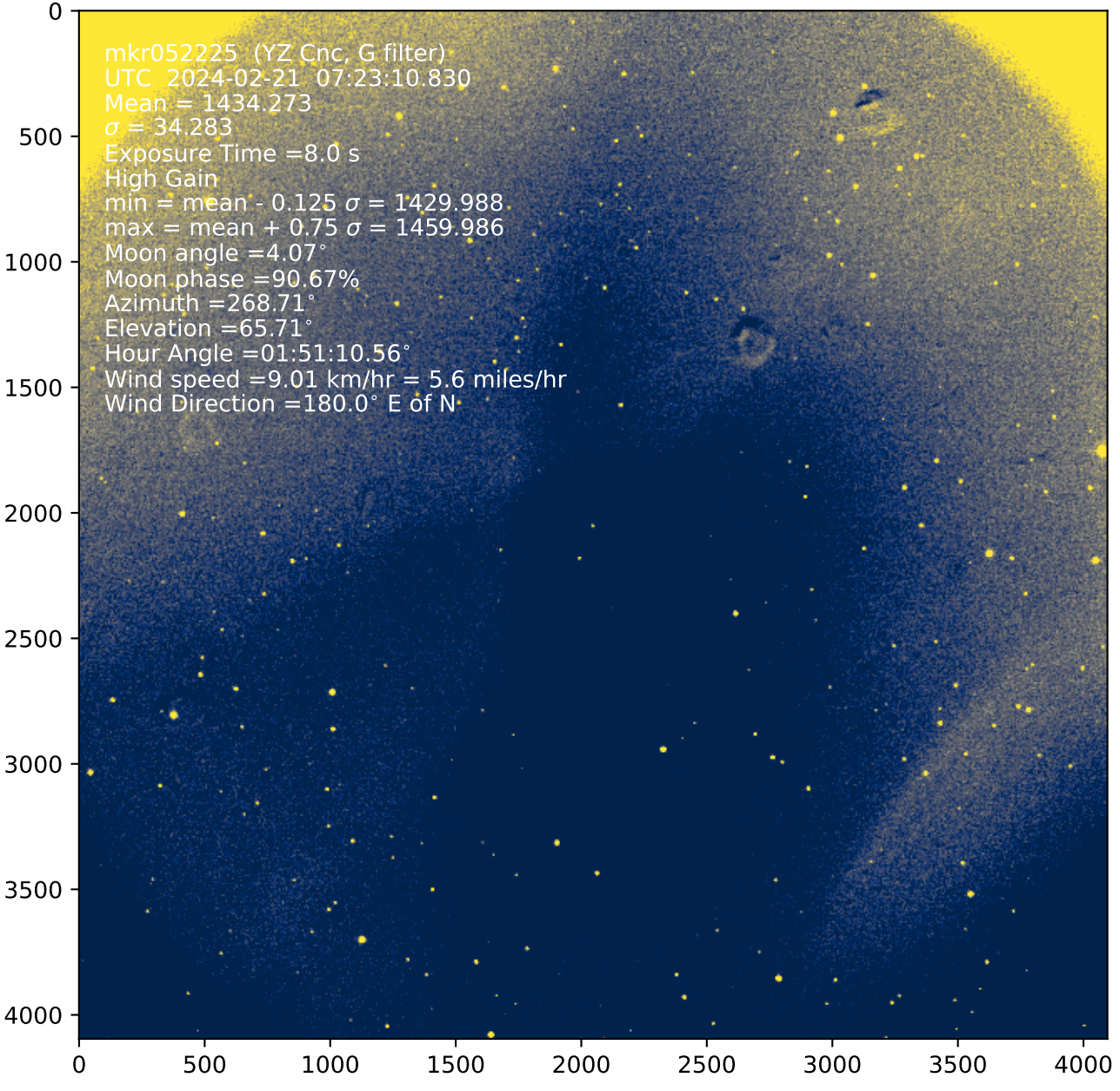
2500
3000
3500
4000


mkr052220 (YZ Cnc, I filter)
UTC 2024-02-21 07:22:08.630
Mean = 1294.503
σ = 30.513
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1290.689
max = mean + 0.75 σ = 1317.388
Moon angle =4.08°
Moon phase =90.66%
Azimuth =268.56°
Elevation =65.93°
Hour Angle =01:50:07.39°
Wind speed =11.59 km/hr = 7.2 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr052225 (YZ Cnc, G filter)
UTC 2024-02-21 07:23:10.830
Mean = 1434.273
σ = 34.283
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1429.988
max = mean + 0.75 σ = 1459.986
Moon angle =4.07°
Moon phase =90.67%
Azimuth =268.71°
Elevation =65.71°
Hour Angle =01:51:10.56°
Wind speed =9.01 km/hr = 5.6 miles/hr
Wind Direction =180.0° E of N
0
500
1000
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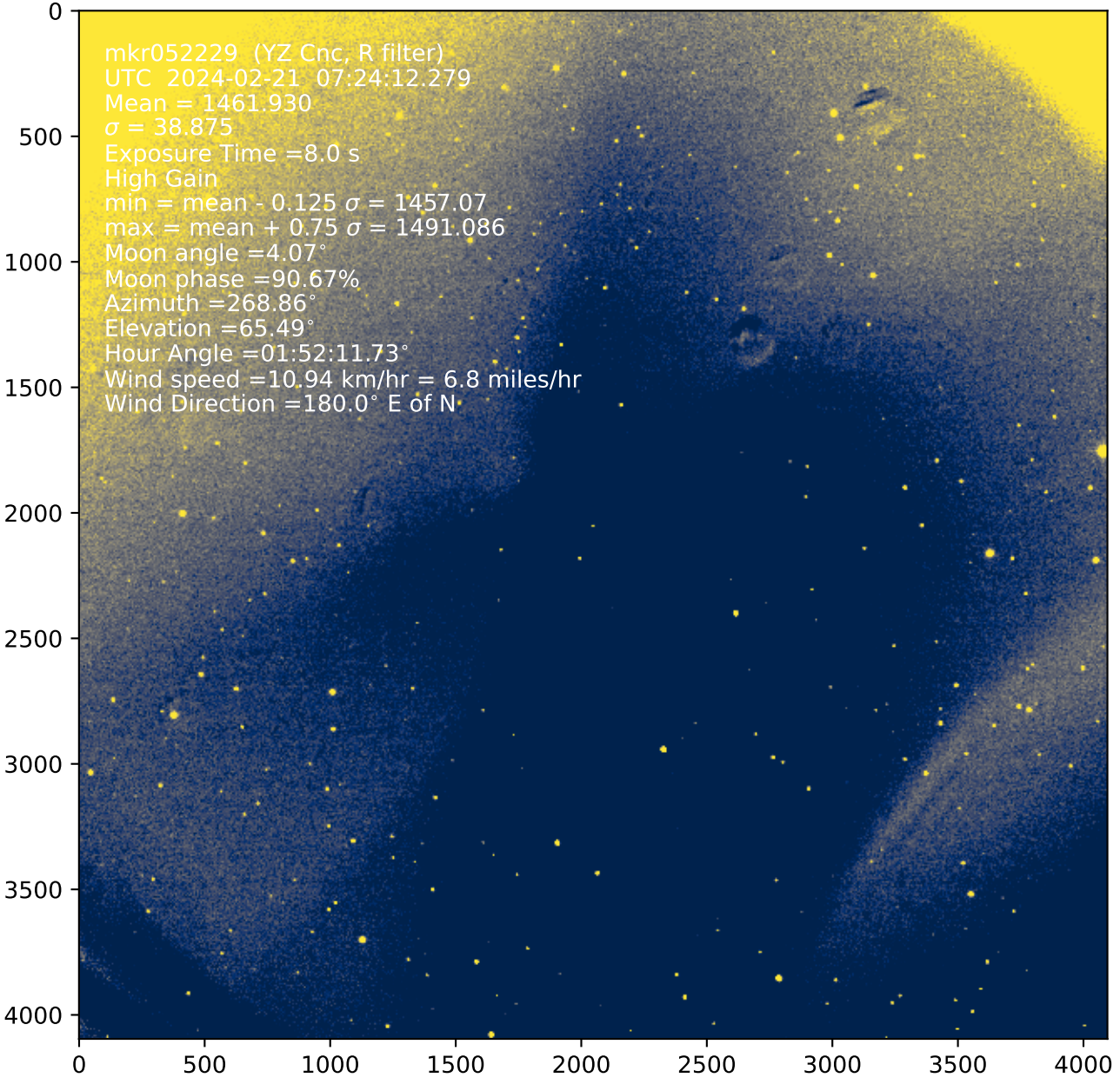
2500
3000
3500
4000


mkr052229 (YZ Cnc, R filter)
UTC 2024-02-21 07:24:12.279
Mean = 1461.930
σ = 38.875
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1457.07
max = mean + 0.75 σ = 1491.086
Moon angle =4.07°
Moon phase =90.67%
Azimuth =268.86°
Elevation =65.49°
Hour Angle =01:52:11.73°
Wind speed =10.94 km/hr = 6.8 miles/hr
Wind Direction =180.0° E of N
0
500
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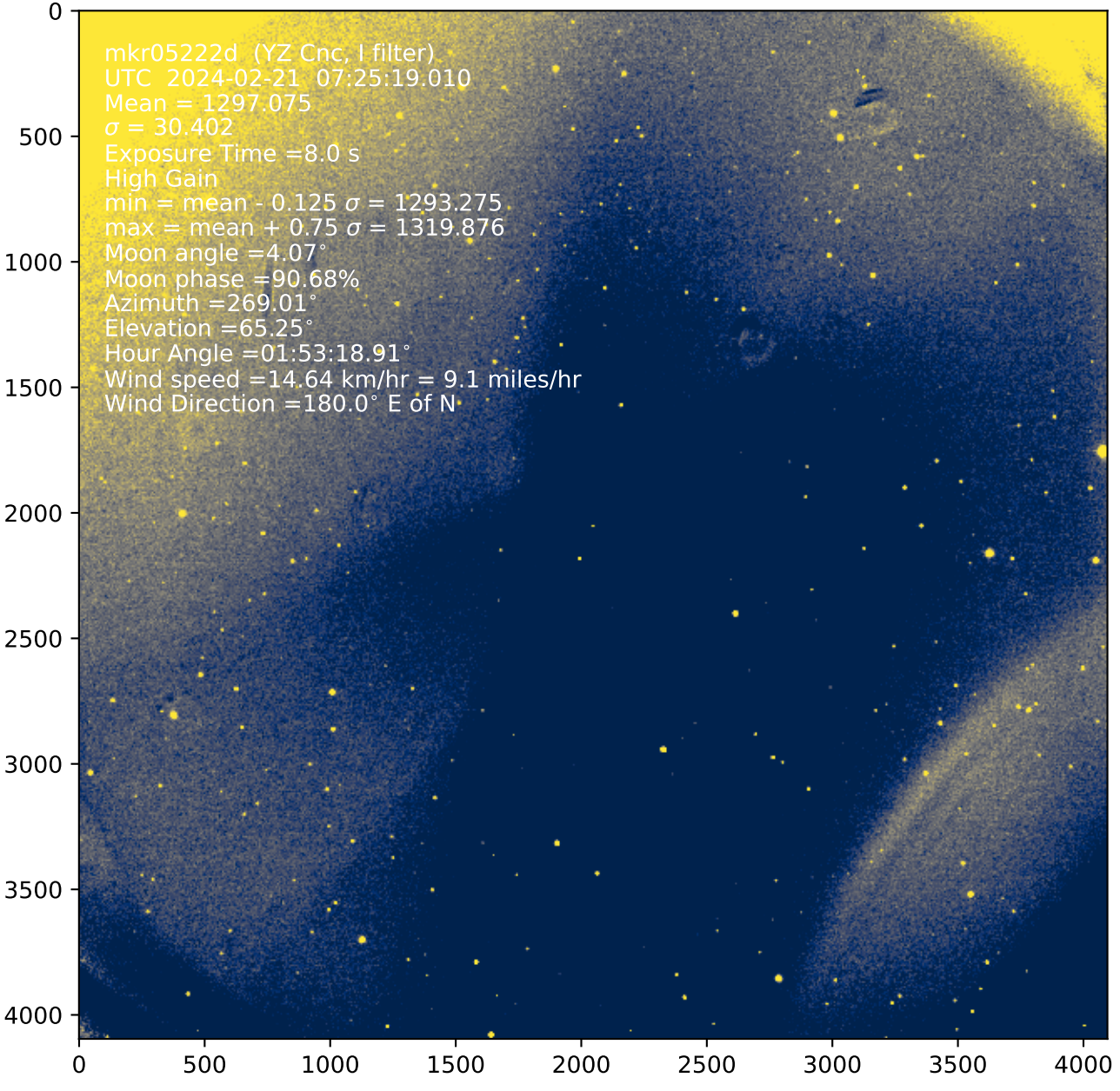
2500
3000
3500
4000


mkr05222d (YZ Cnc, I filter)
UTC 2024-02-21 07:25:19.010
Mean = 1297.075
σ = 30.402
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1293.275
max = mean + 0.75 σ = 1319.876
Moon angle =4.07°
Moon phase =90.68%
Azimuth =269.01°
Elevation =65.25°
Hour Angle =01:53:18.91°
Wind speed =14.64 km/hr = 9.1 miles/hr
Wind Direction =180.0° E of N
0
500
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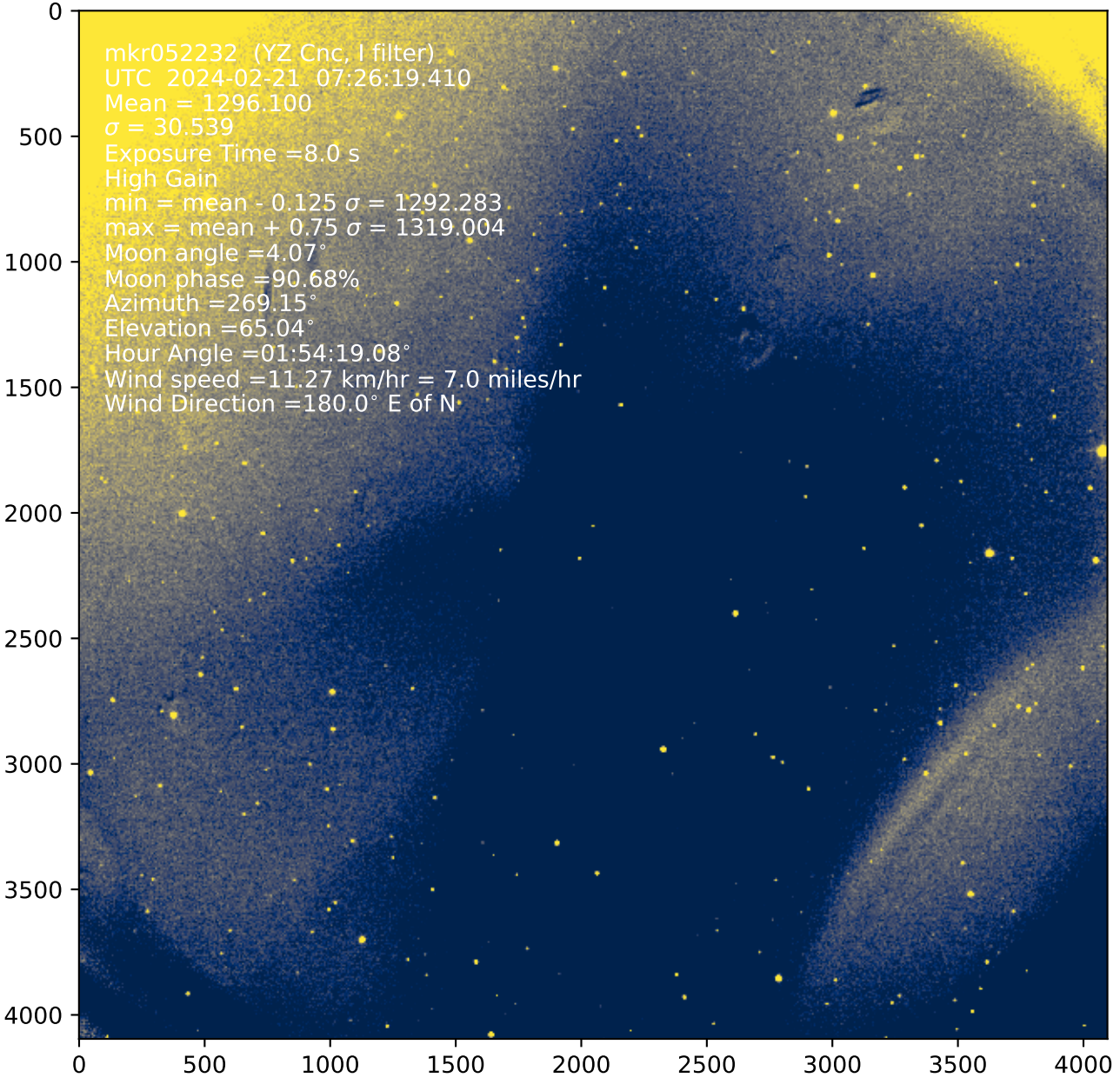
2500
3000
3500
4000


mkr052232 (YZ Cnc, I filter)
UTC 2024-02-21 07:26:19.410
Mean = 1296.100
σ = 30.539
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1292.283
max = mean + 0.75 σ = 1319.004
Moon angle =4.07°
Moon phase =90.68%
Azimuth =269.15°
Elevation =65.04°
Hour Angle =01:54:19.08°
Wind speed =11.27 km/hr = 7.0 miles/hr
Wind Direction =180.0° E of N
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500
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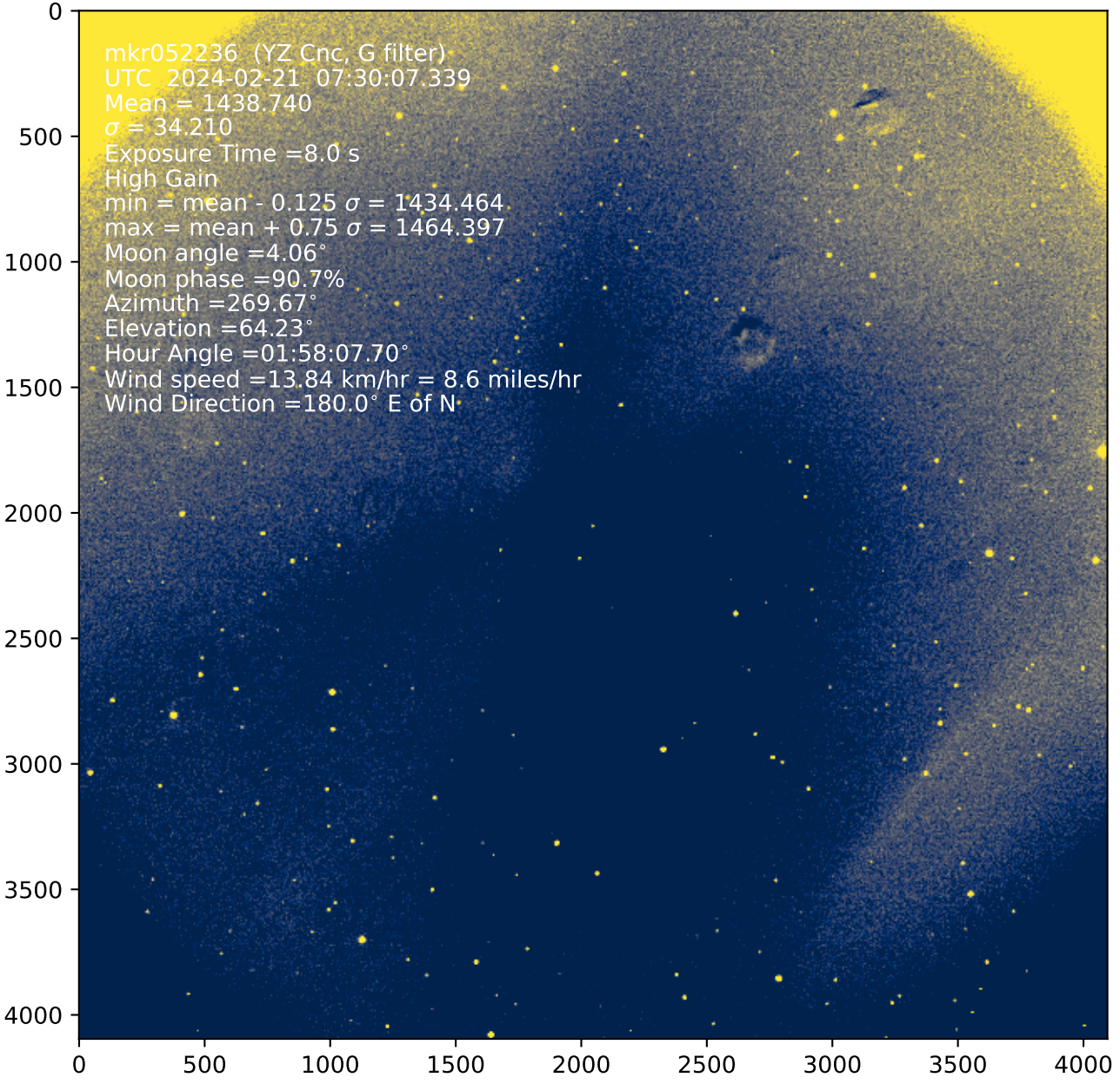
3500
4000


mkr052236 (YZ Cnc, G filter)
UTC 2024-02-21 07:30:07.339
Mean = 1438.740
σ = 34.210
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1434.464
max = mean + 0.75 σ = 1464.397
Moon angle =4.06°
Moon phase =90.7%
Azimuth =269.67°
Elevation =64.23°
Hour Angle =01:58:07.70°
Wind speed =13.84 km/hr = 8.6 miles/hr
Wind Direction =180.0° E of N
0
500
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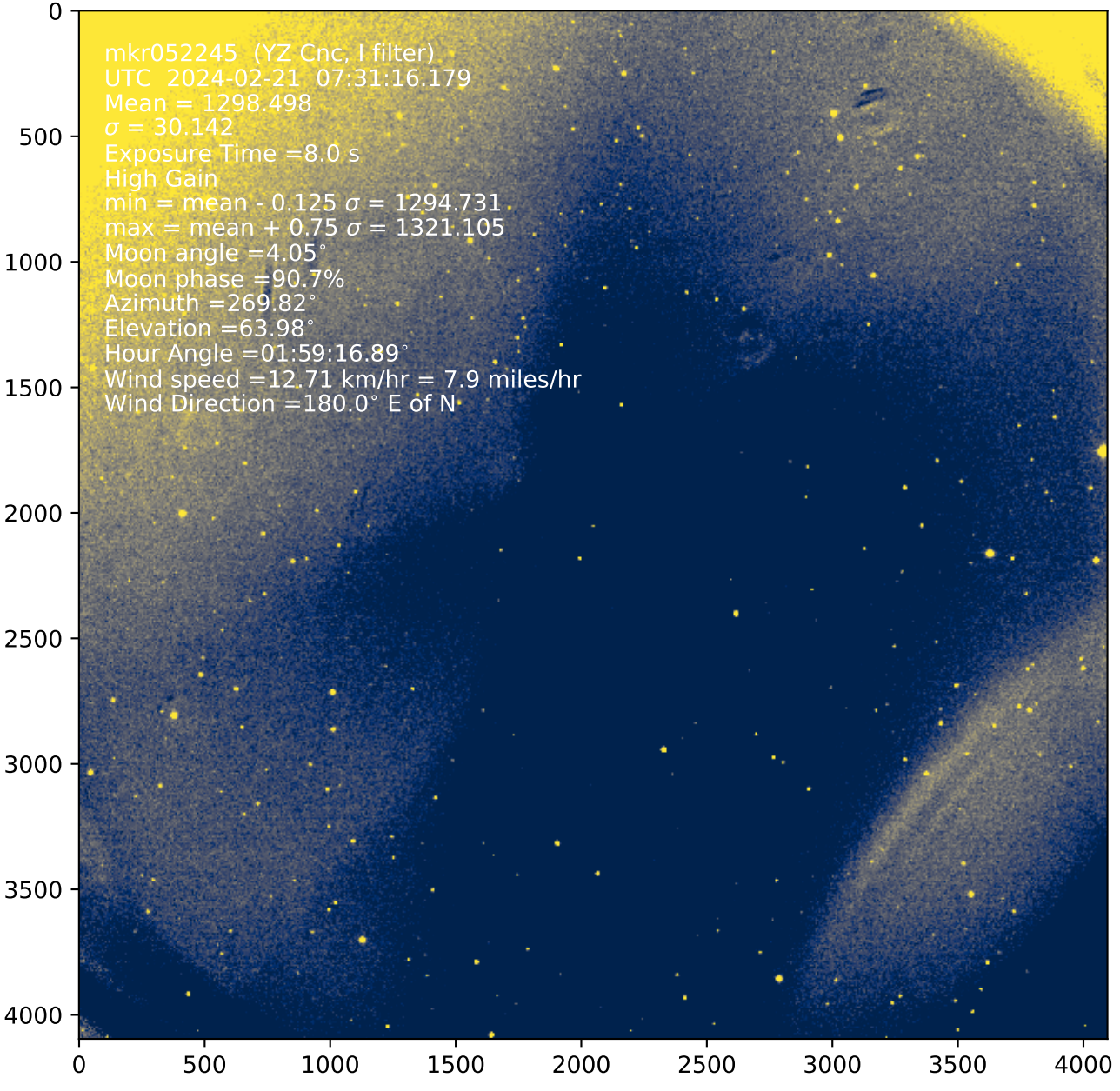
3000
3500
4000


mkr052245 (YZ Cnc, I filter)
UTC 2024-02-21 07:31:16.179
Mean = 1298.498
σ = 30.142
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1294.731
max = mean + 0.75 σ = 1321.105
Moon angle =4.05°
Moon phase =90.7%
Azimuth =269.82°
Elevation =63.98°
Hour Angle =01:59:16.89°
Wind speed =12.71 km/hr = 7.9 miles/hr
Wind Direction =180.0° E of N
0
500
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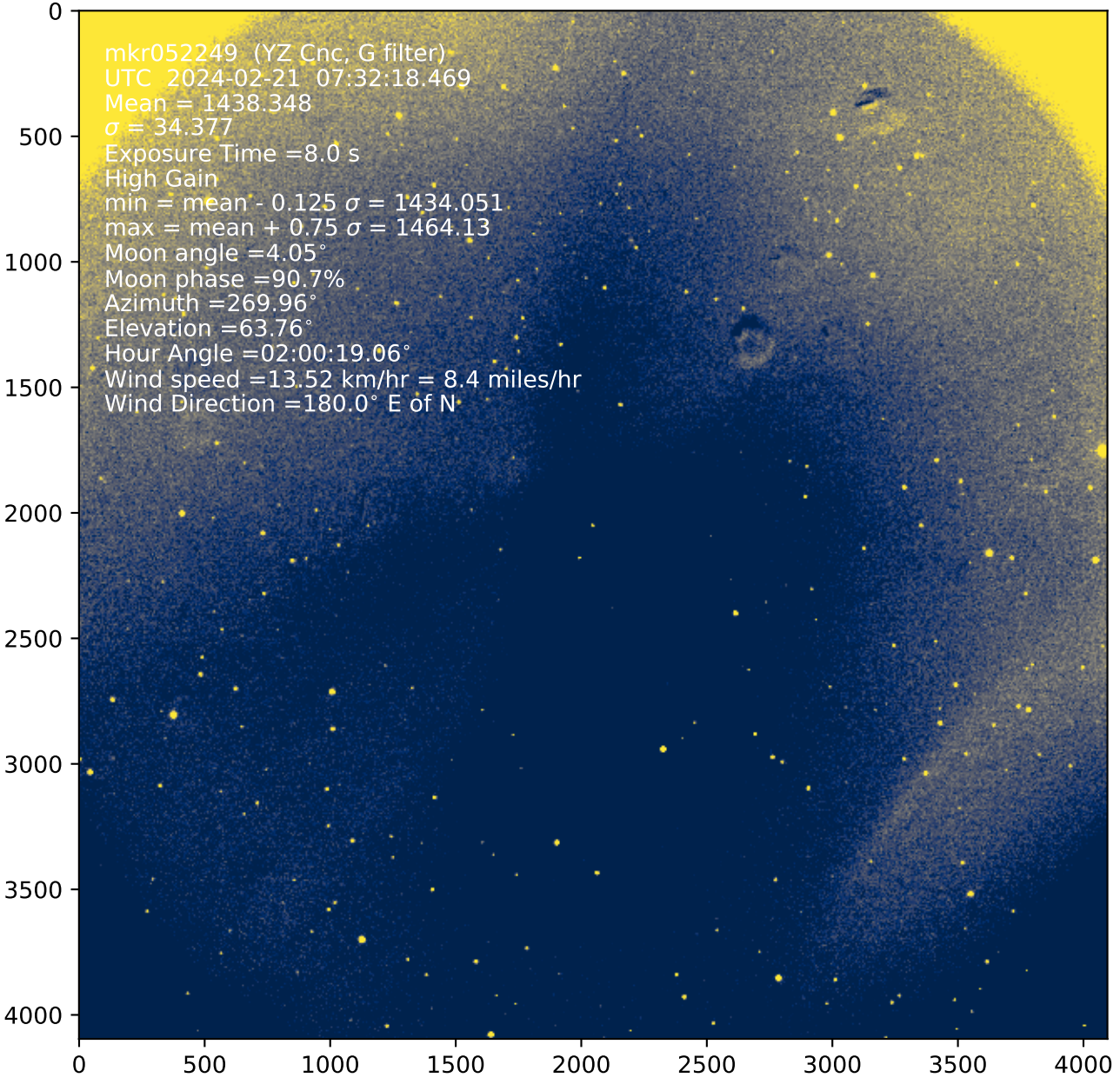
2500
3000
3500
4000


mkr052249 (YZ Cnc, G filter)
UTC 2024-02-21 07:32:18.469
Mean = 1438.348
σ = 34.377
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1434.051
max = mean + 0.75 σ = 1464.13
Moon angle =4.05°
Moon phase =90.7%
Azimuth =269.96°
Elevation =63.76°
Hour Angle =02:00:19.06°
Wind speed =13.52 km/hr = 8.4 miles/hr
Wind Direction =180.0° E of N
0
500
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2500
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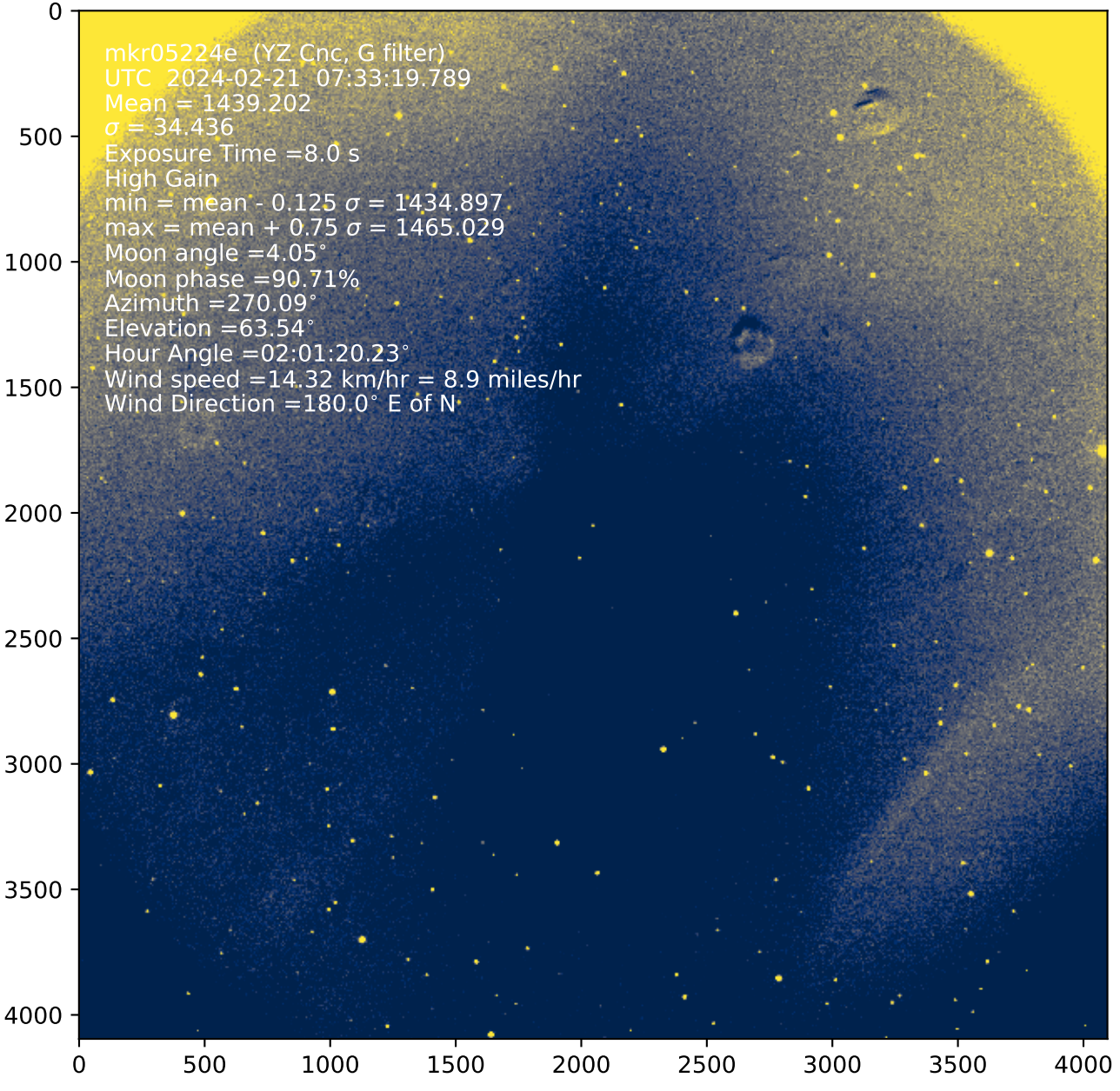
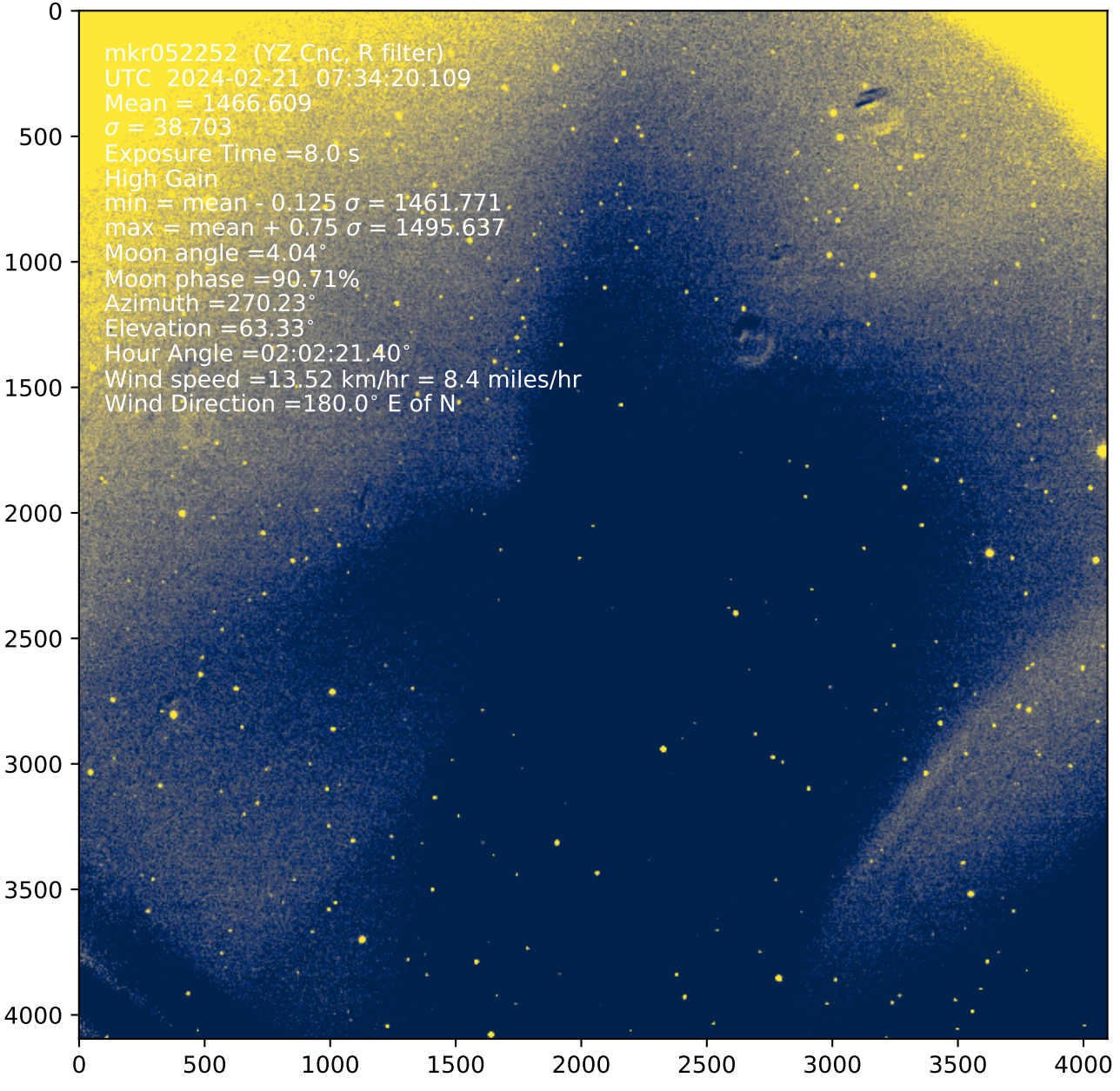
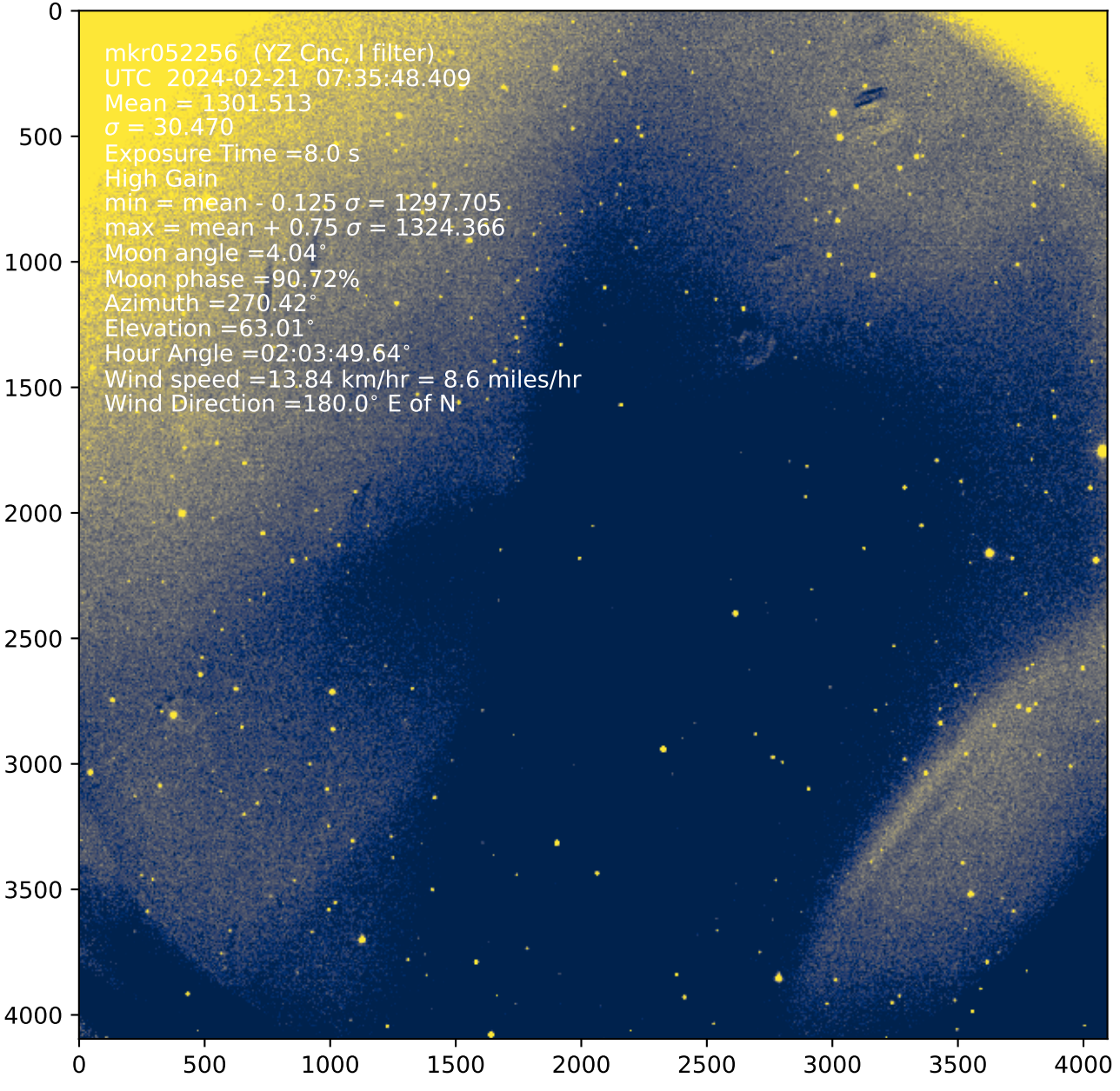
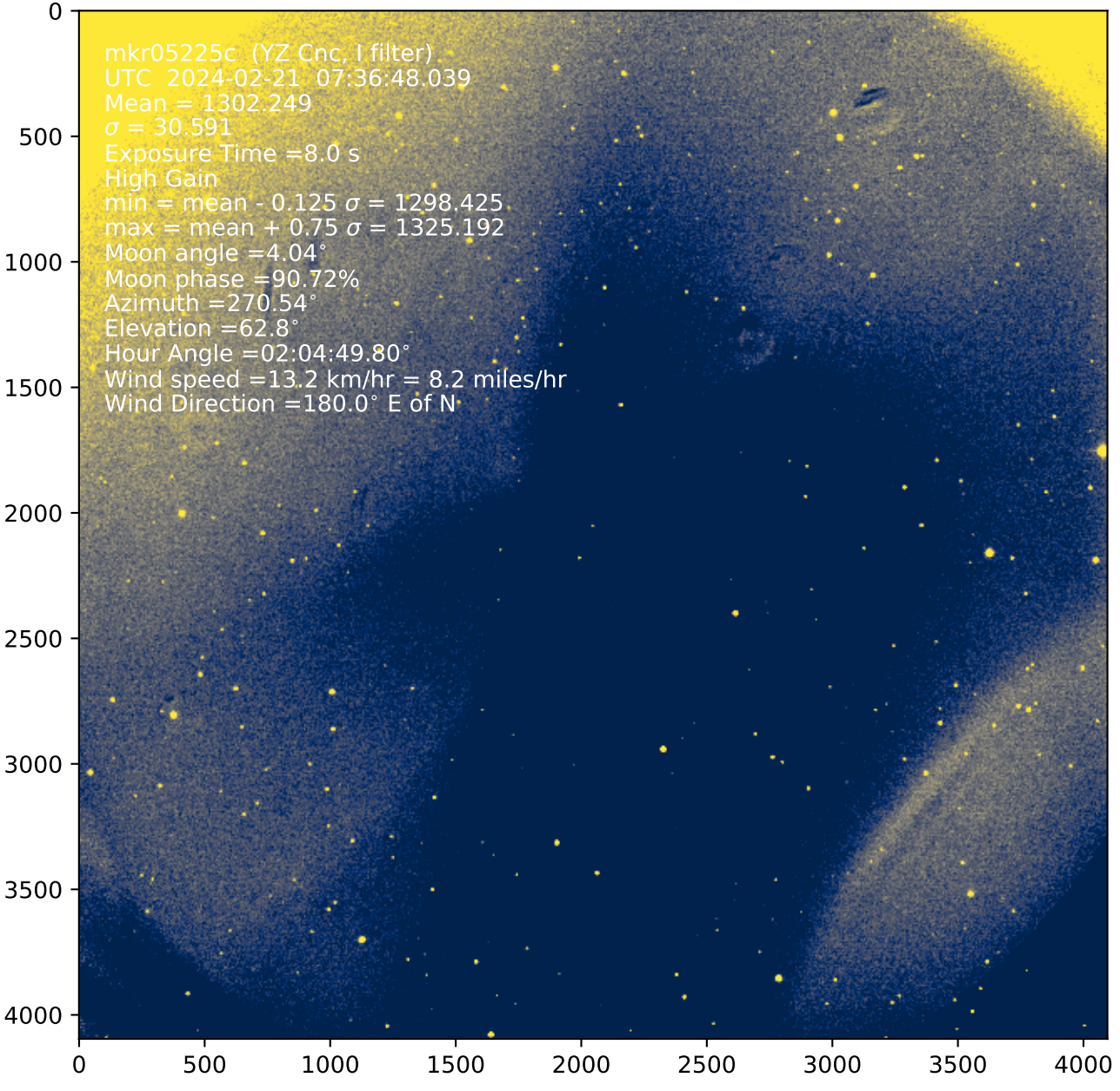
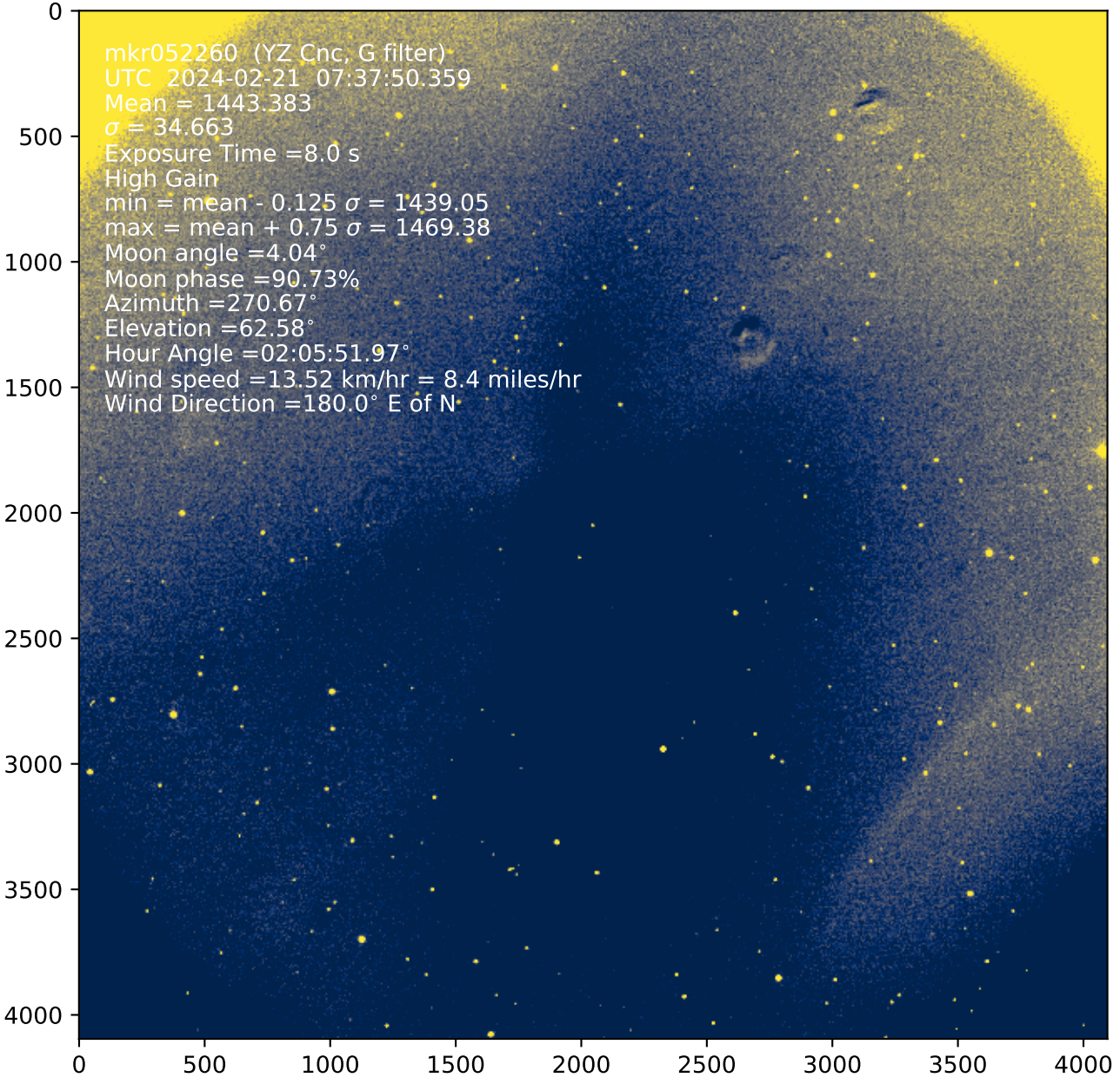
3500
4000

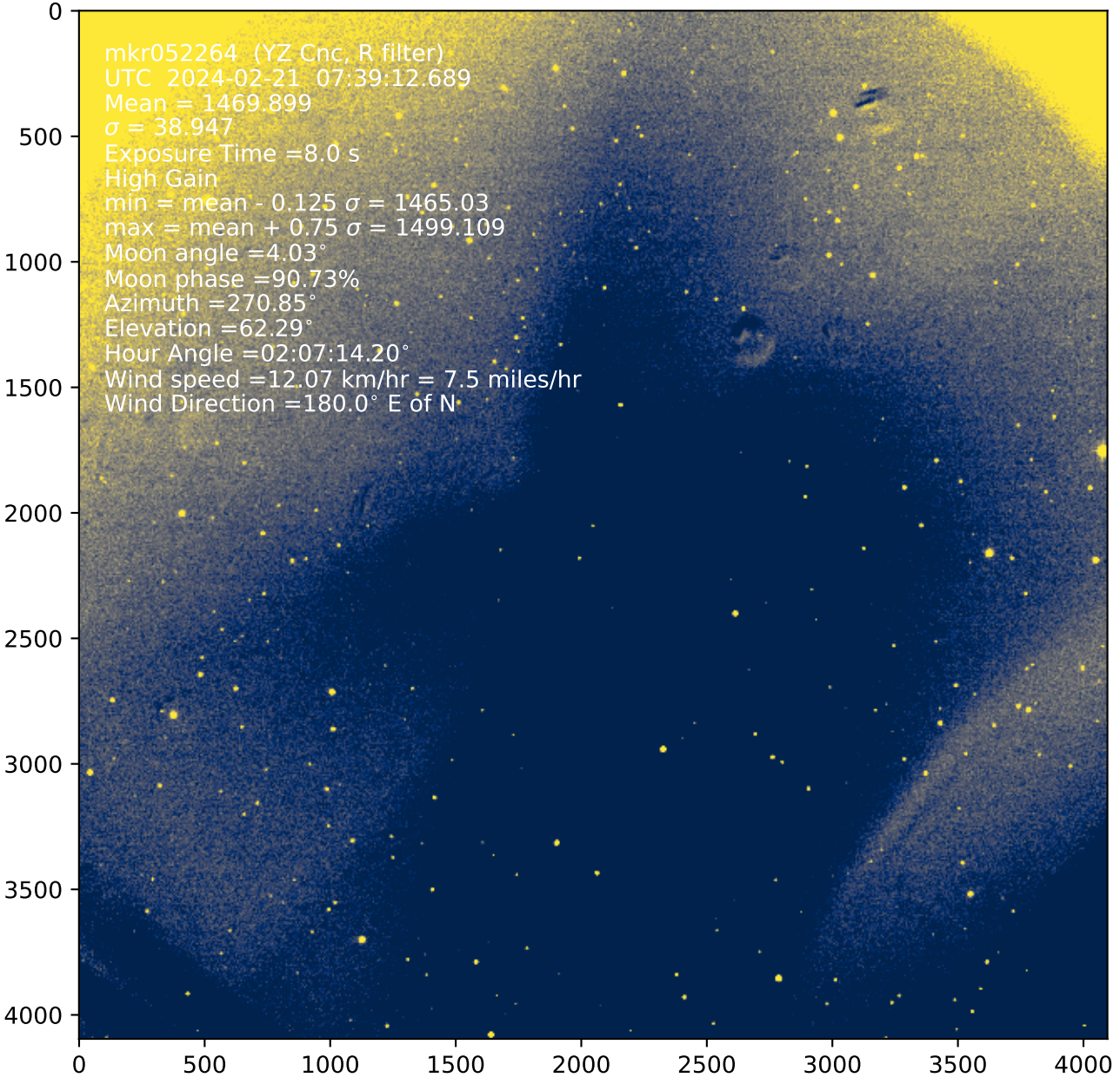

mkr05224e (YZ Cnc, G filter)
UTC 2024-02-21 07:33:19.789
Mean = 1439.202
σ = 34.436
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1434.897
max = mean + 0.75 σ = 1465.029
Moon angle =4.05°
Moon phase =90.71%
Azimuth =270.09°
Elevation =63.54°
Hour Angle =02:01:20.23°
Wind speed =14.32 km/hr = 8.9 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000

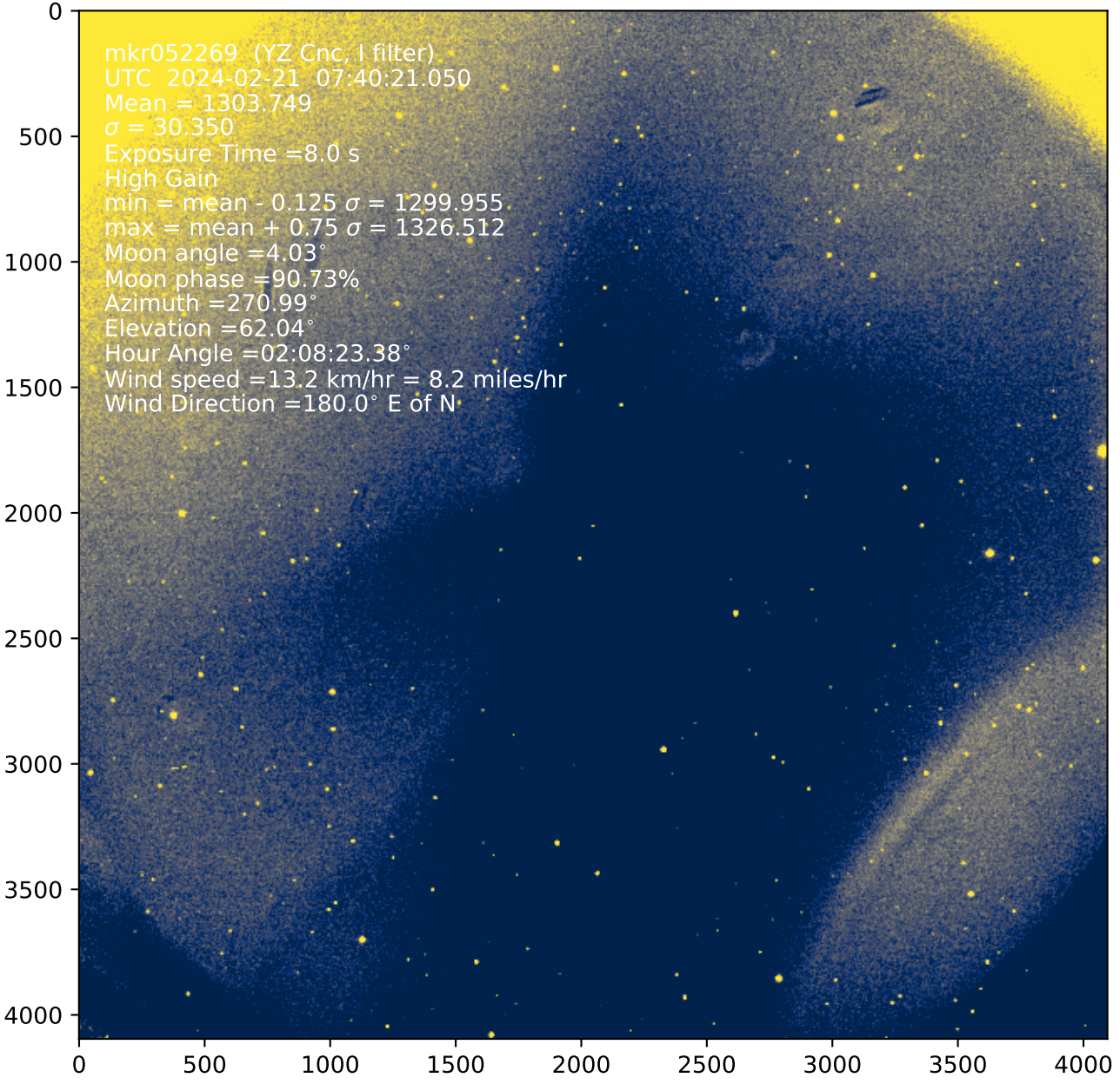

mkr052252 (YZ Cnc, R filter)
UTC 2024-02-21 07:34:20.109
Mean = 1466.609
σ = 38.703
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1461.771
max = mean + 0.75 σ = 1495.637
Moon angle =4.04°
Moon phase =90.71%
Azimuth =270.23°
Elevation =63.33°
Hour Angle =02:02:21.40°
Wind speed =13.52 km/hr = 8.4 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000

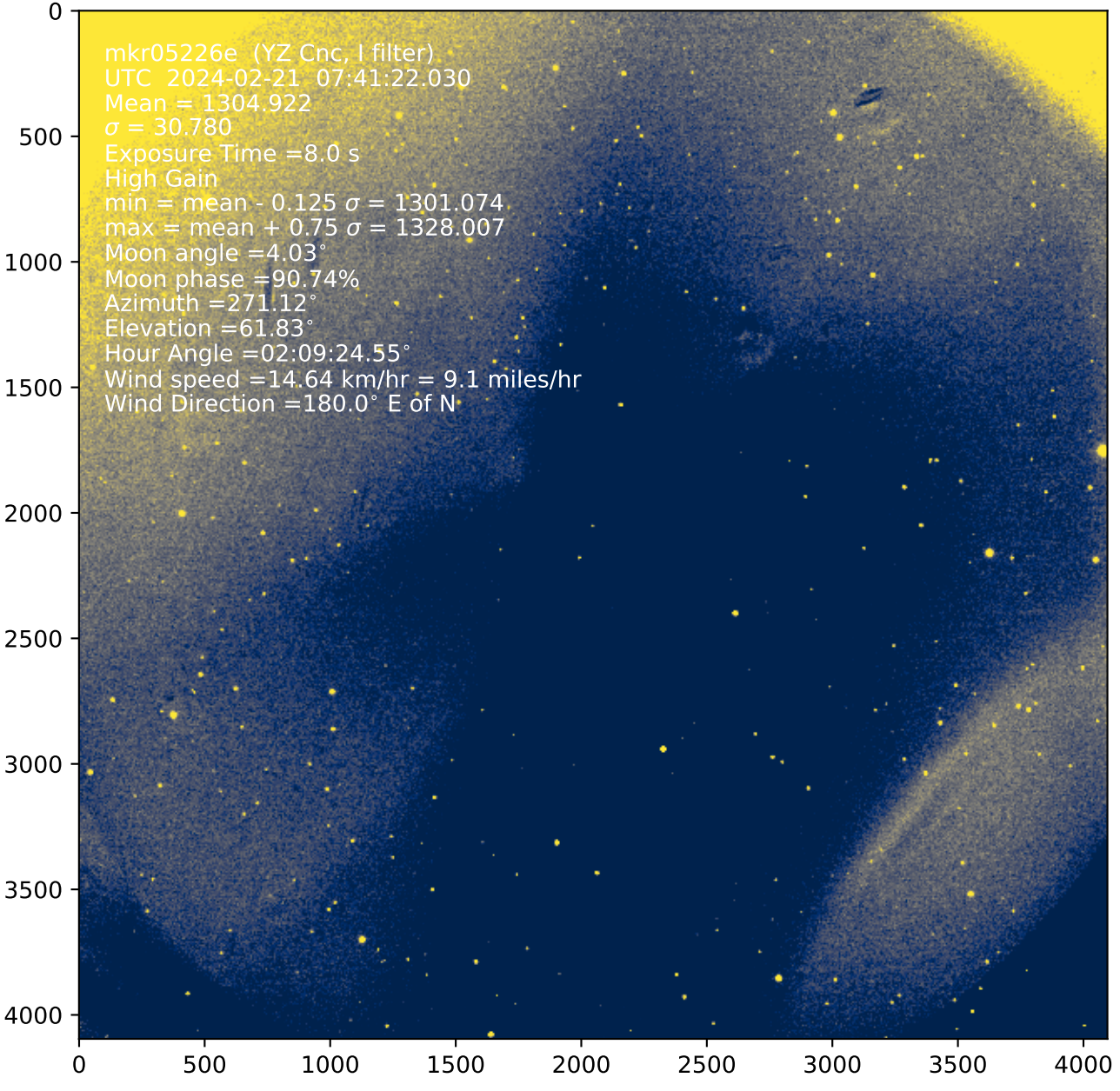

mkr052256 (YZ Cnc, I filter)
UTC 2024-02-21 07:35:48.409
Mean = 1301.513
σ = 30.470
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1297.705
max = mean + 0.75 σ = 1324.366
Moon angle =4.04°
Moon phase =90.72%
Azimuth =270.42°
Elevation =63.01°
Hour Angle =02:03:49.64°
Wind speed =13.84 km/hr = 8.6 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr05225c (YZ Cnc, I filter)
UTC 2024-02-21 07:36:48.039
Mean = 1302.249
σ = 30.591
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1298.425
max = mean + 0.75 σ = 1325.192
Moon angle =4.04°
Moon phase =90.72%
Azimuth =270.54°
Elevation =62.8°
Hour Angle =02:04:49.80°
Wind speed =13.2 km/hr = 8.2 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr052260 (YZ Cnc, G filter)
UTC 2024-02-21 07:37:50.359
Mean = 1443.383
σ = 34.663
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1439.05
max = mean + 0.75 σ = 1469.38
Moon angle =4.04°
Moon phase =90.73%
Azimuth =270.67°
Elevation =62.58°
Hour Angle =02:05:51.97°
Wind speed =13.52 km/hr = 8.4 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr052264 (YZ Cnc, R filter)
UTC 2024-02-21 07:39:12.689
Mean = 1469.899
σ = 38.947
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1465.03
max = mean + 0.75 σ = 1499.109
Moon angle =4.03˚
Moon phase =90.73%
Azimuth =270.85˚
Elevation =62.29˚
Hour Angle =02:07:14.20˚
Wind speed =12.07 km/hr = 7.5 miles/hr
Wind Direction =180.0˚ E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr052269 (YZ Cnc, I filter)
UTC 2024-02-21 07:40:21.050
Mean = 1303.749
σ = 30.350
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1299.955
max = mean + 0.75 σ = 1326.512
Moon angle =4.03°
Moon phase =90.73%
Azimuth =270.99°
Elevation =62.04°
Hour Angle =02:08:23.38°
Wind speed =13.2 km/hr = 8.2 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr05226e (YZ Cnc, I filter)
UTC 2024-02-21 07:41:22.030
Mean = 1304.922
σ = 30.780
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1301.074
max = mean + 0.75 σ = 1328.007
Moon angle =4.03°
Moon phase =90.74%
Azimuth =271.12°
Elevation =61.83°
Hour Angle =02:09:24.55°
Wind speed =14.64 km/hr = 9.1 miles/hr
Wind Direction =180.0° E of N
0
500
1000
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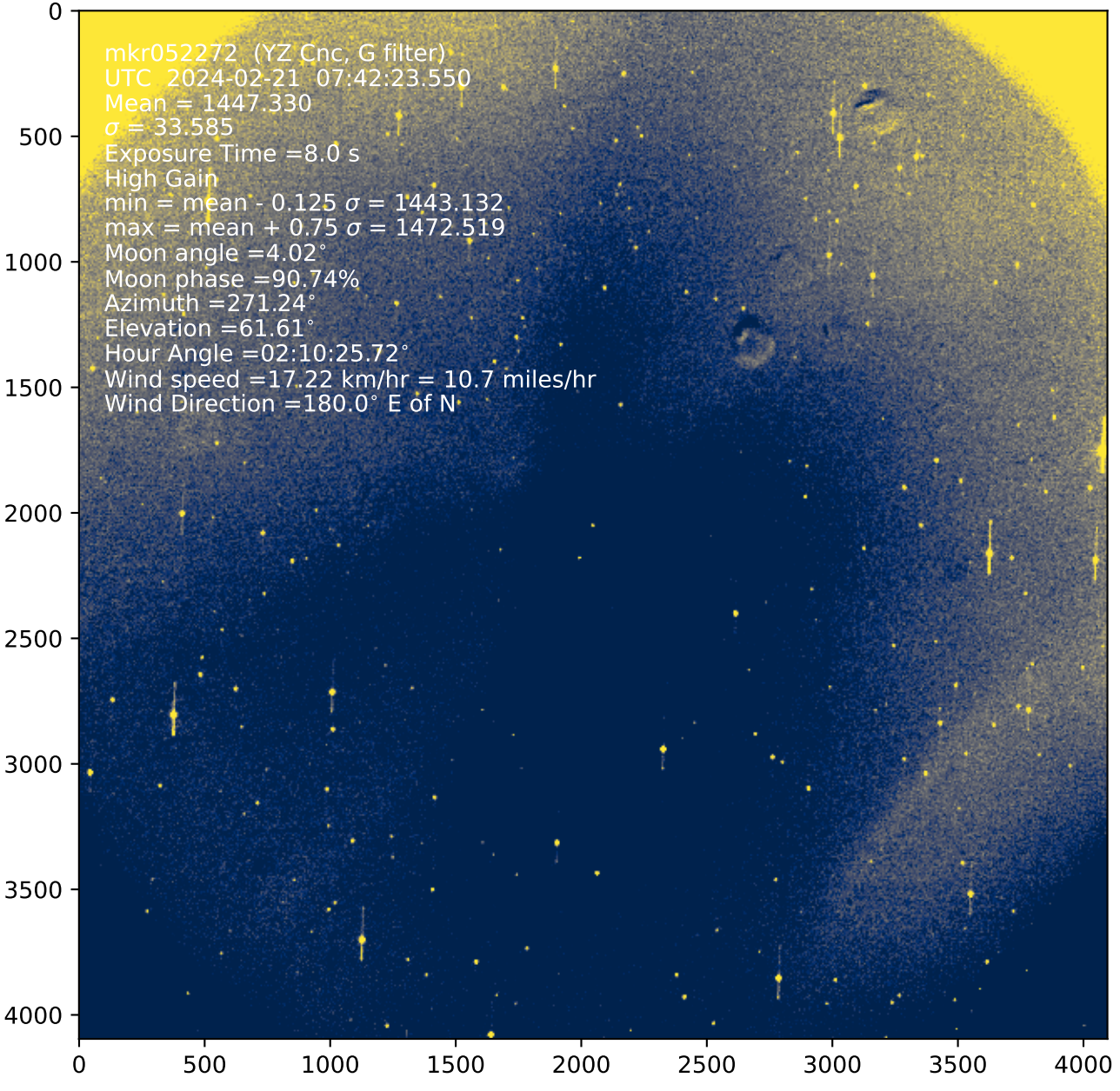
2000
2500
3000
3500
4000


mkr052272 (YZ Cnc, G filter)
UTC 2024-02-21 07:42:23.550
Mean = 1447.330
σ = 33.585
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1443.132
max = mean + 0.75 σ = 1472.519
Moon angle =4.02°
Moon phase =90.74%
Azimuth =271.24°
Elevation =61.61°
Hour Angle =02:10:25.72°
Wind speed =17.22 km/hr = 10.7 miles/hr
Wind Direction =180.0° E of N
0
500
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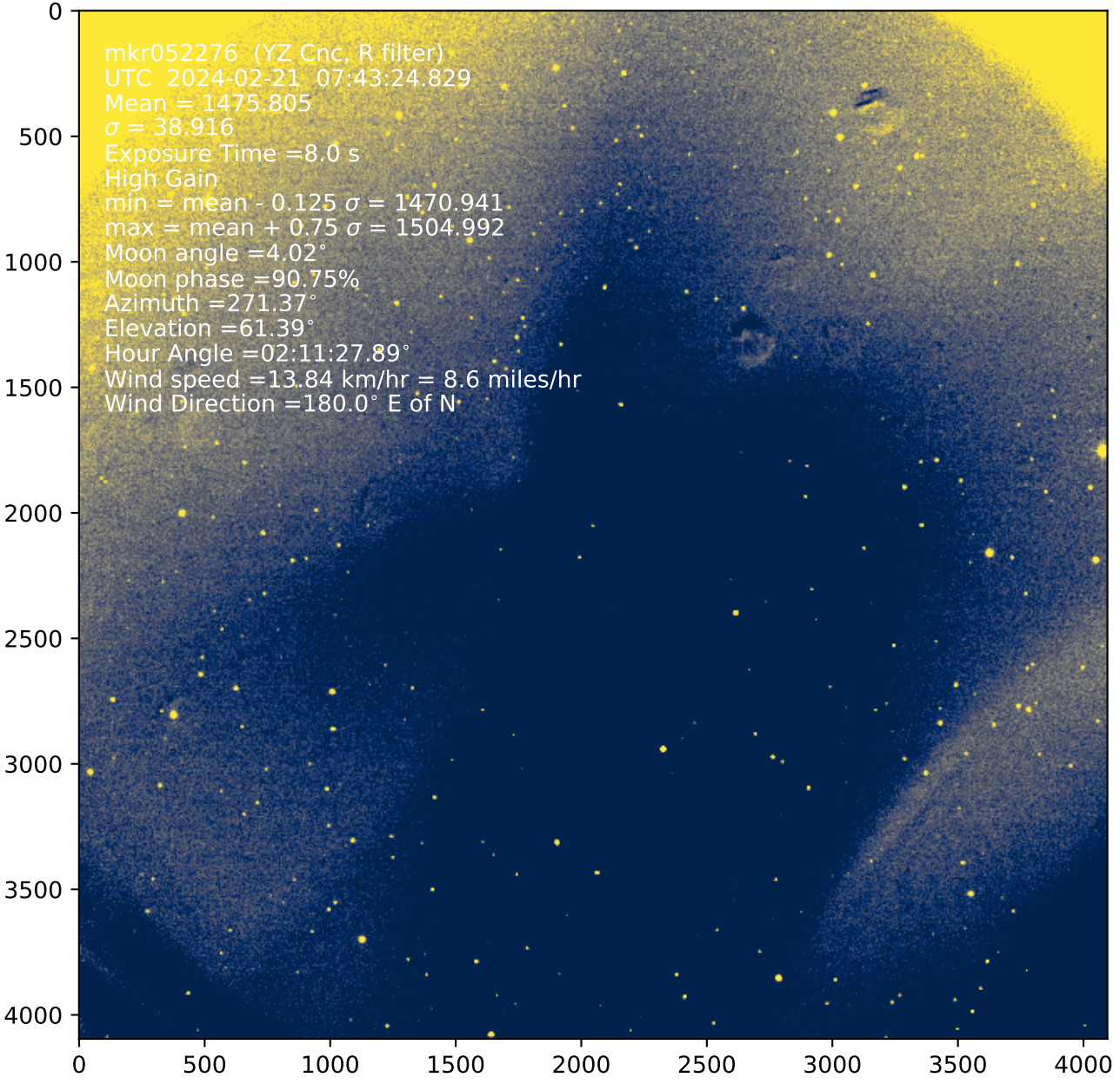
1500
2000
2500
3000
3500
4000


mkr052276 (YZ Cnc, R filter)
UTC 2024-02-21 07:43:24.829
Mean = 1475.805
σ = 38.916
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1470.941
max = mean + 0.75 σ = 1504.992
Moon angle =4.02°
Moon phase =90.75%
Azimuth =271.37°
Elevation =61.39°
Hour Angle =02:11:27.89°
Wind speed =13.84 km/hr = 8.6 miles/hr
Wind Direction =180.0° E of N
0
500
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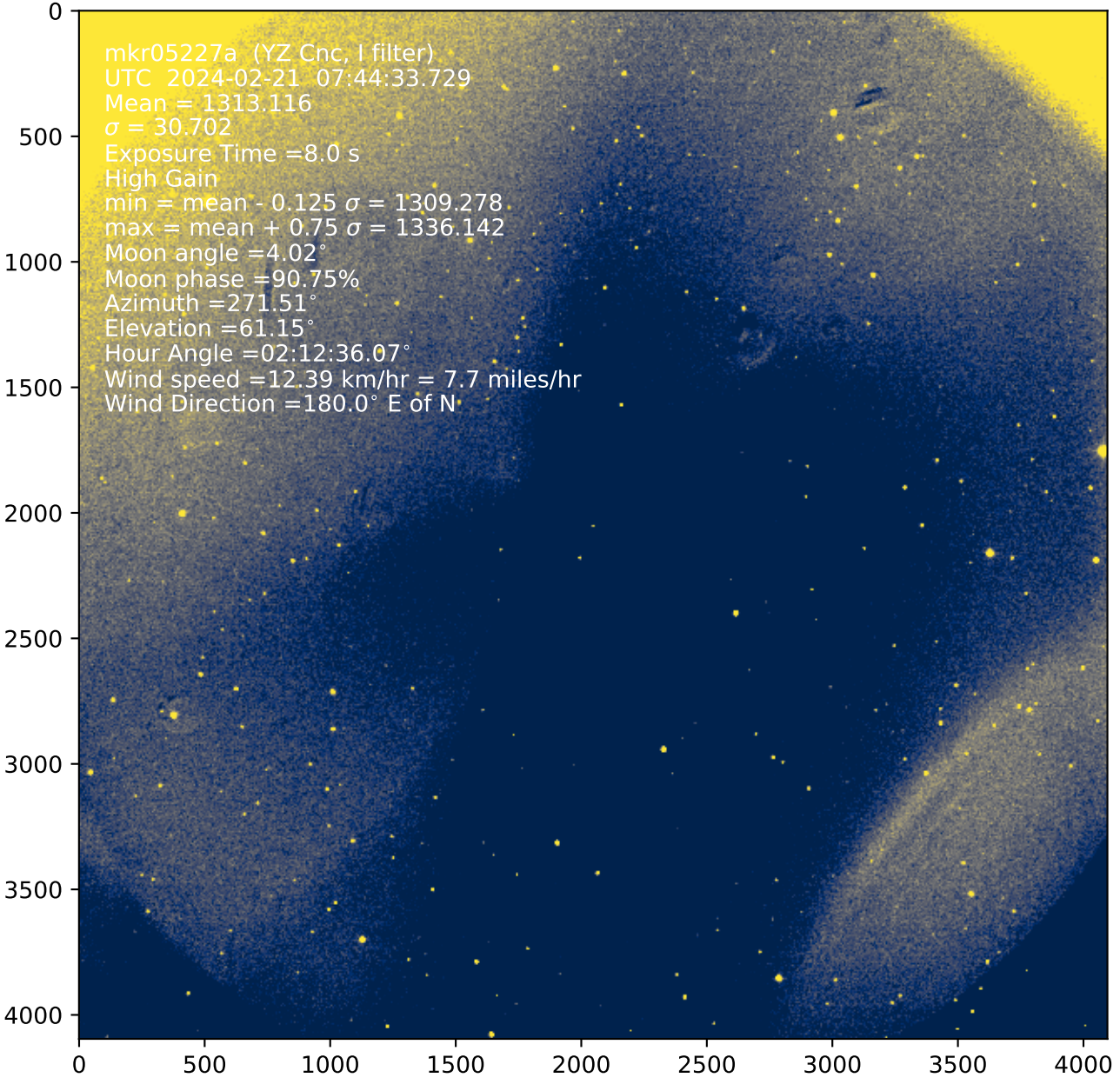
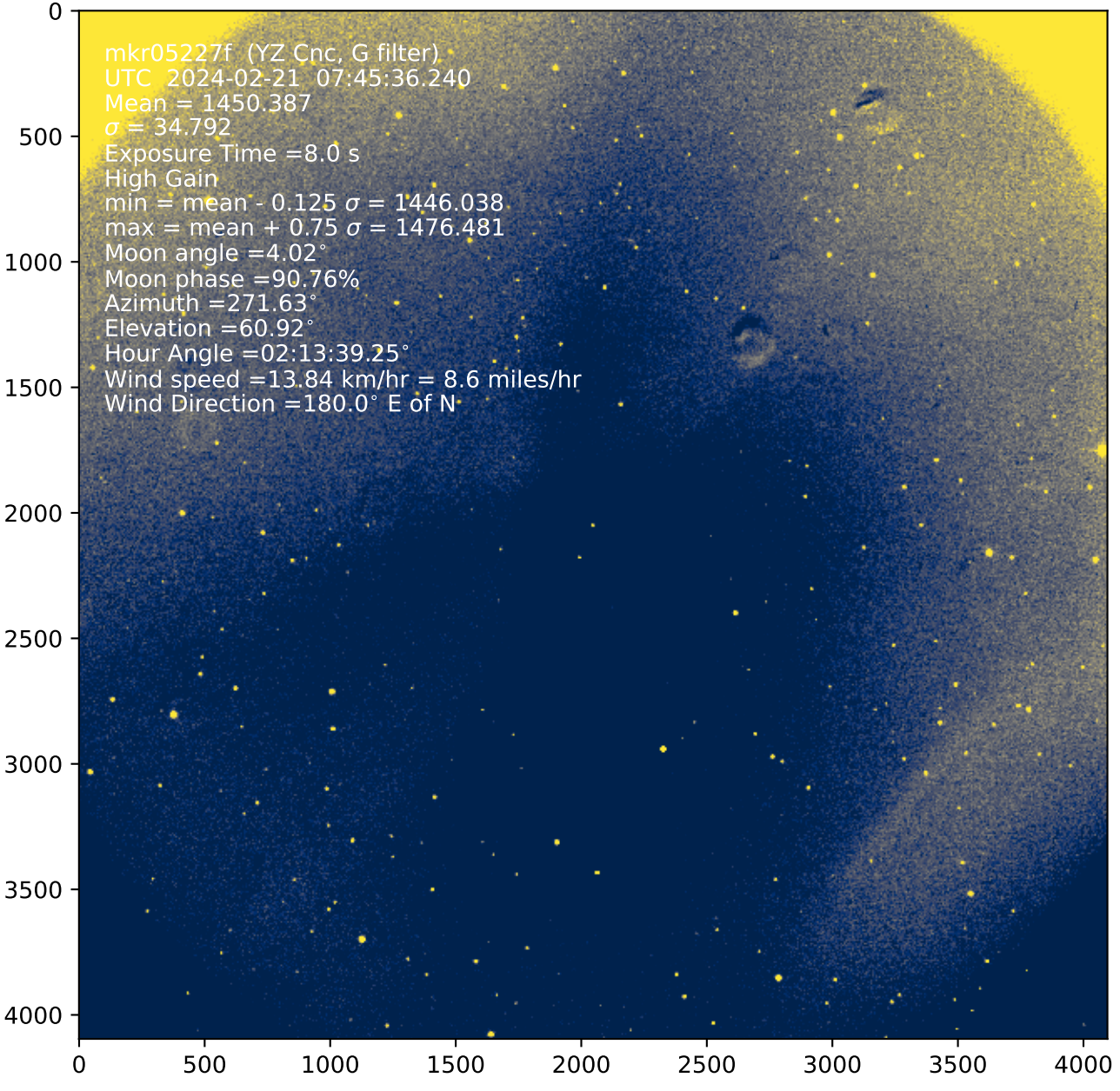
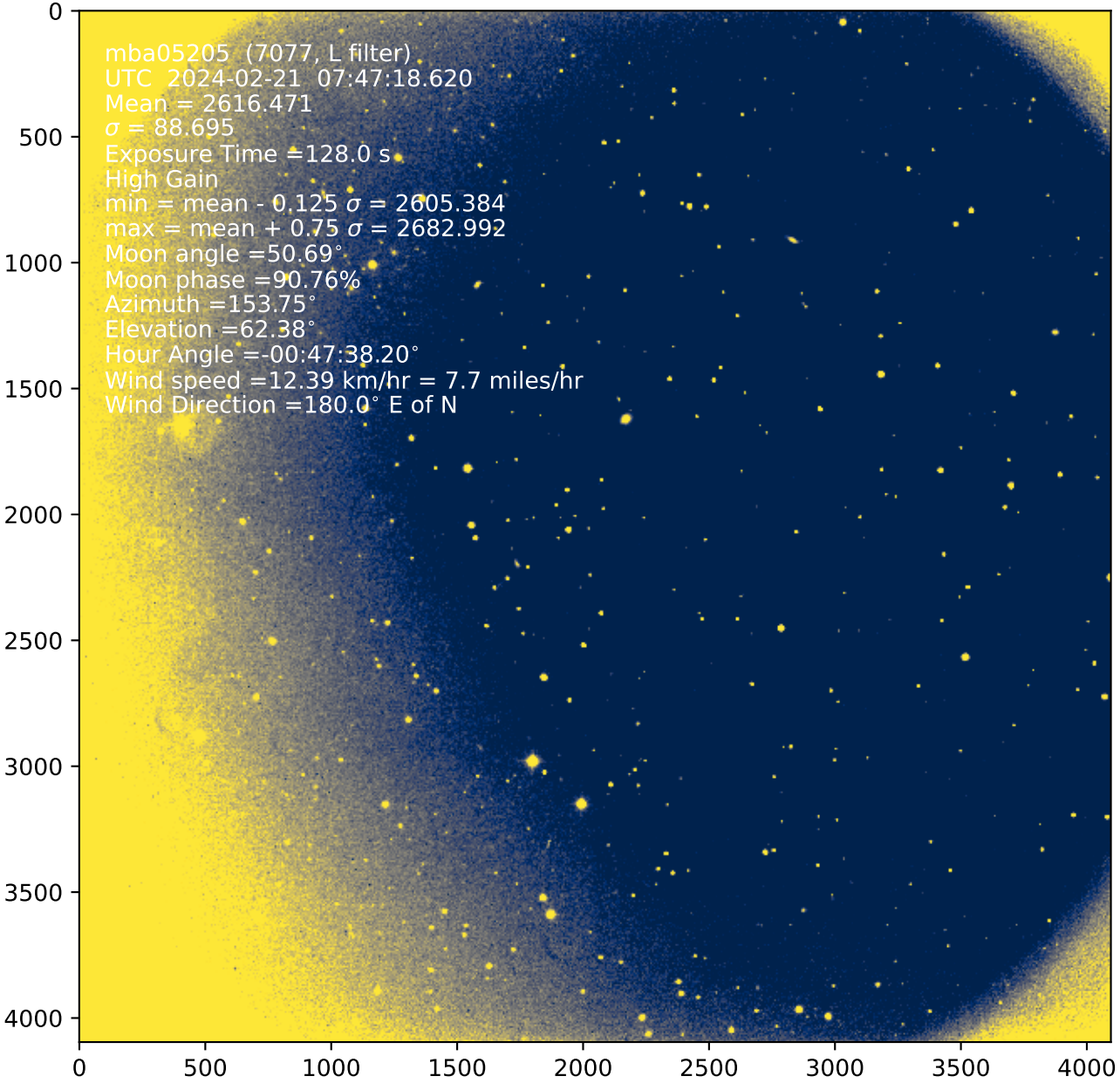
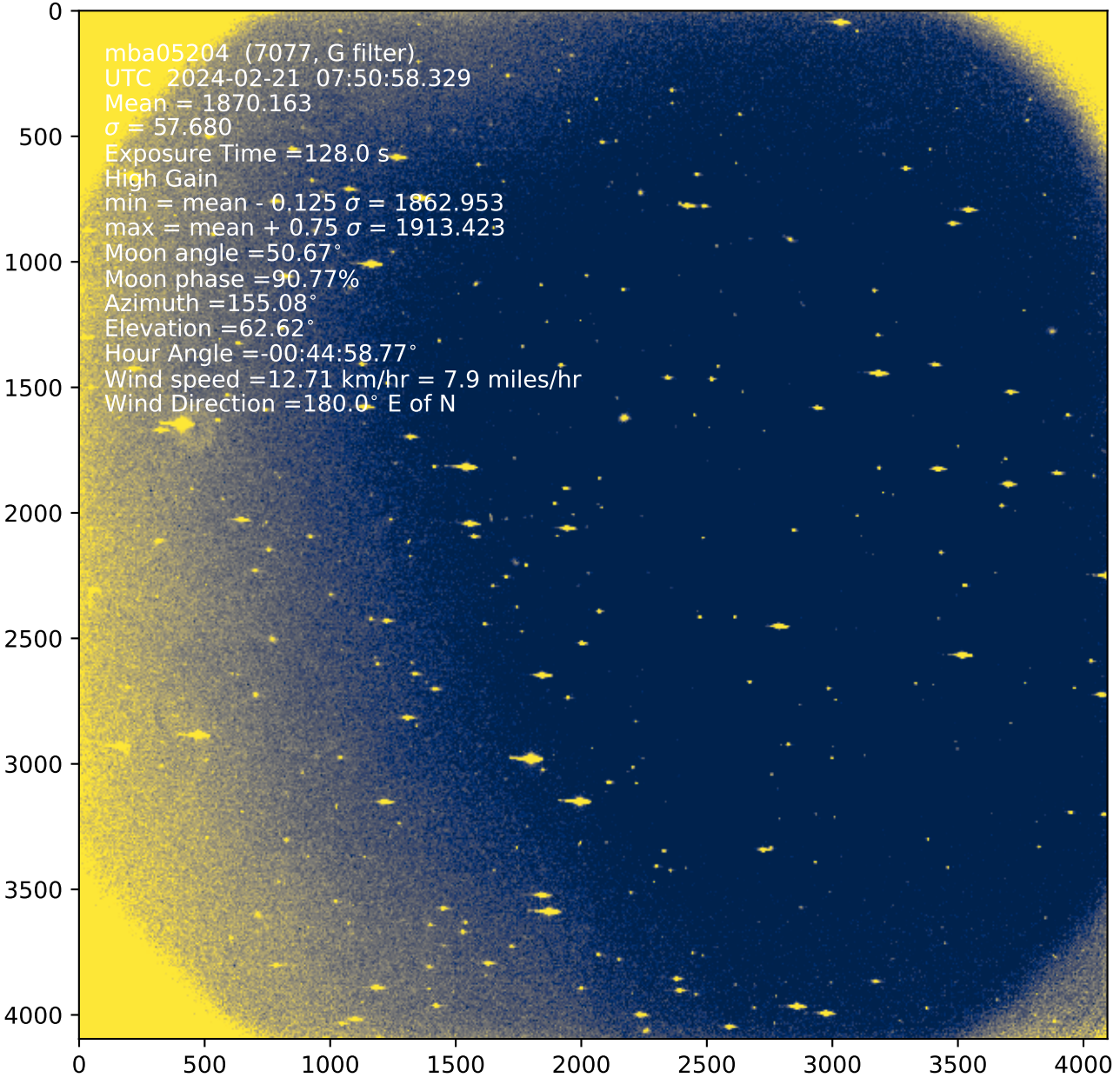
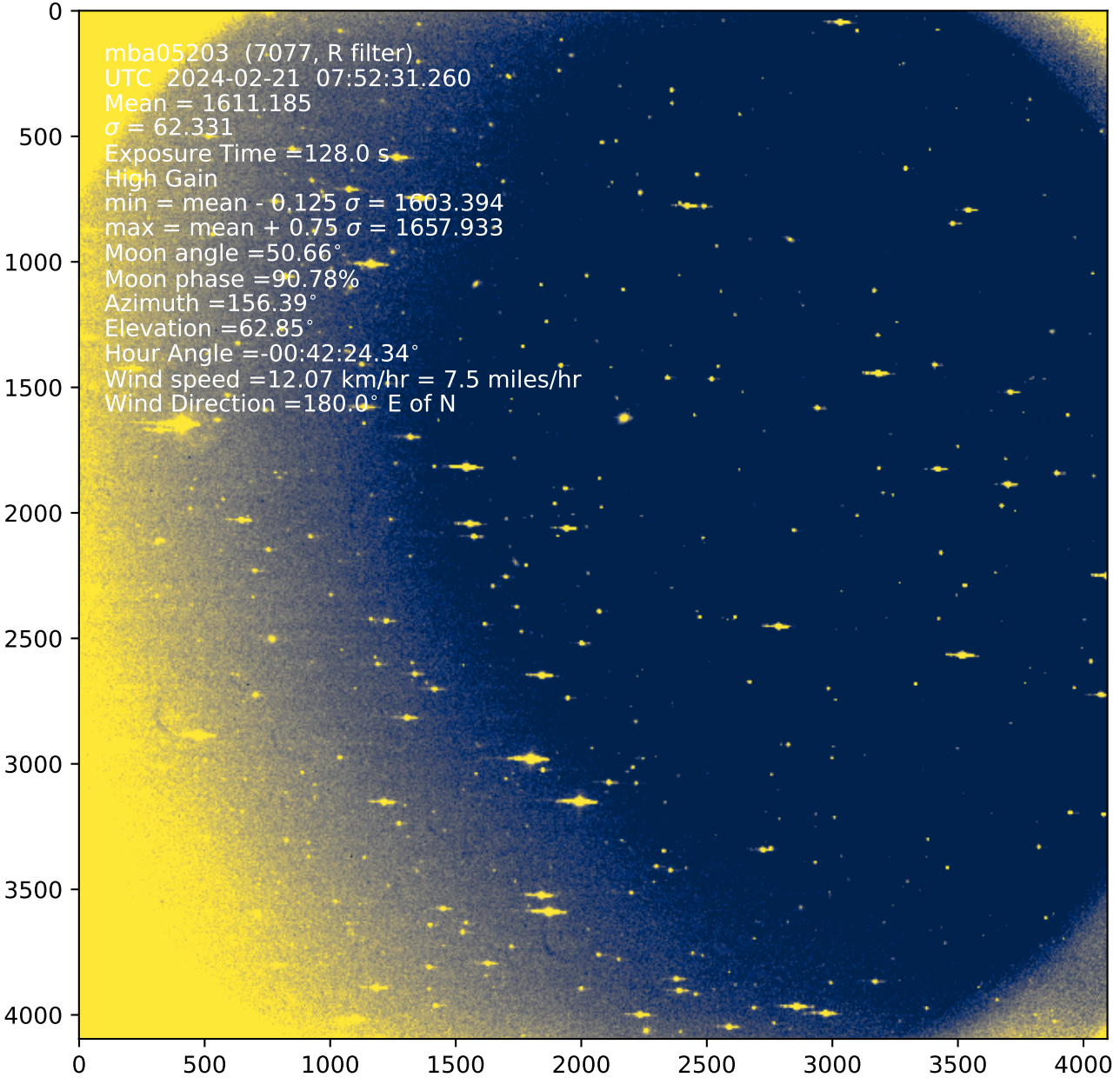
1500
2000
2500
3000
3500
4000

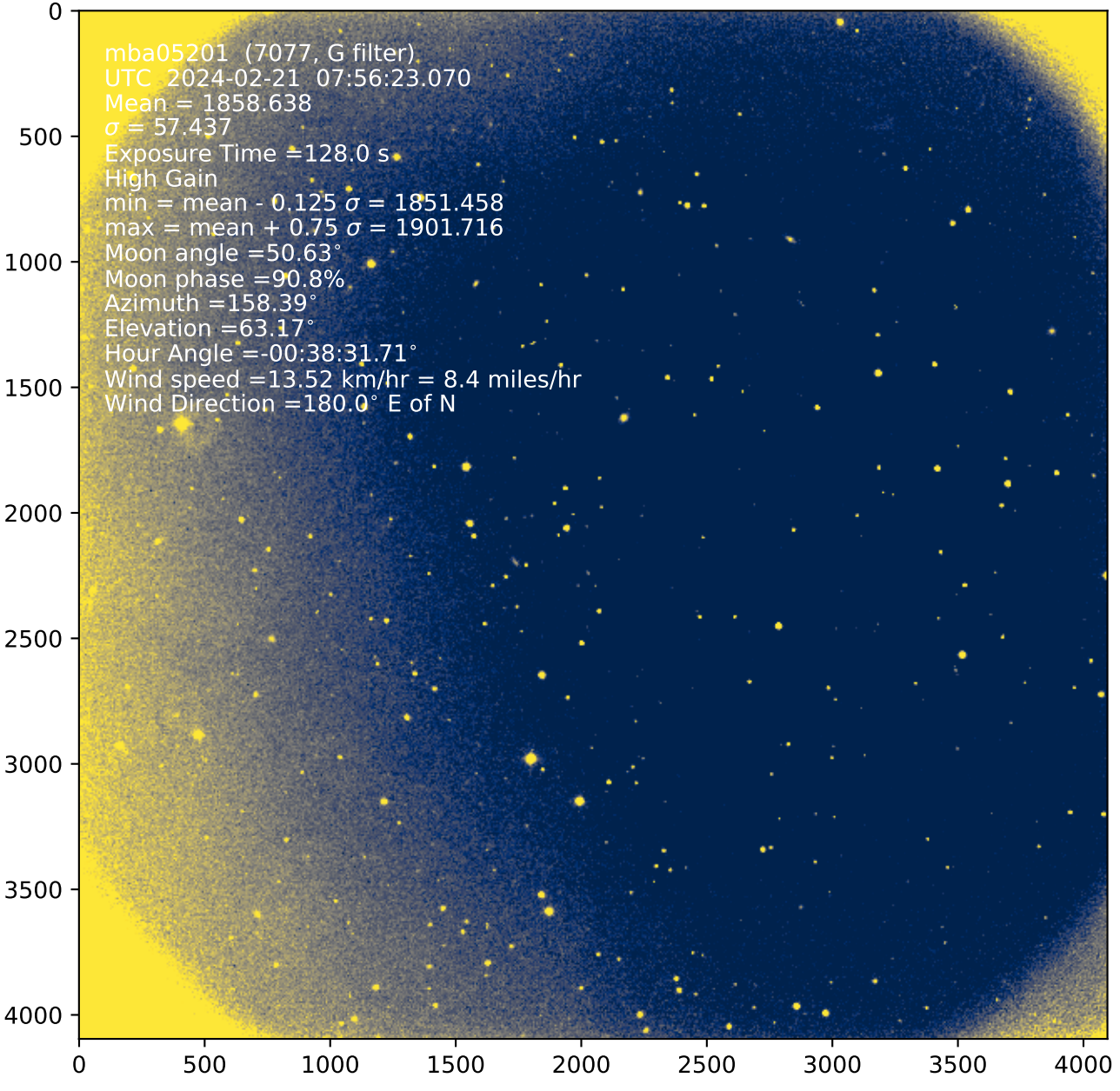

mkr05227a (YZ Cnc, I filter)
UTC 2024-02-21 07:44:33.729
Mean = 1313.116
σ = 30.702
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1309.278
max = mean + 0.75 σ = 1336.142
Moon angle =4.02°
Moon phase =90.75%
Azimuth =271.51°
Elevation =61.15°
Hour Angle =02:12:36.07°
Wind speed =12.39 km/hr = 7.7 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000

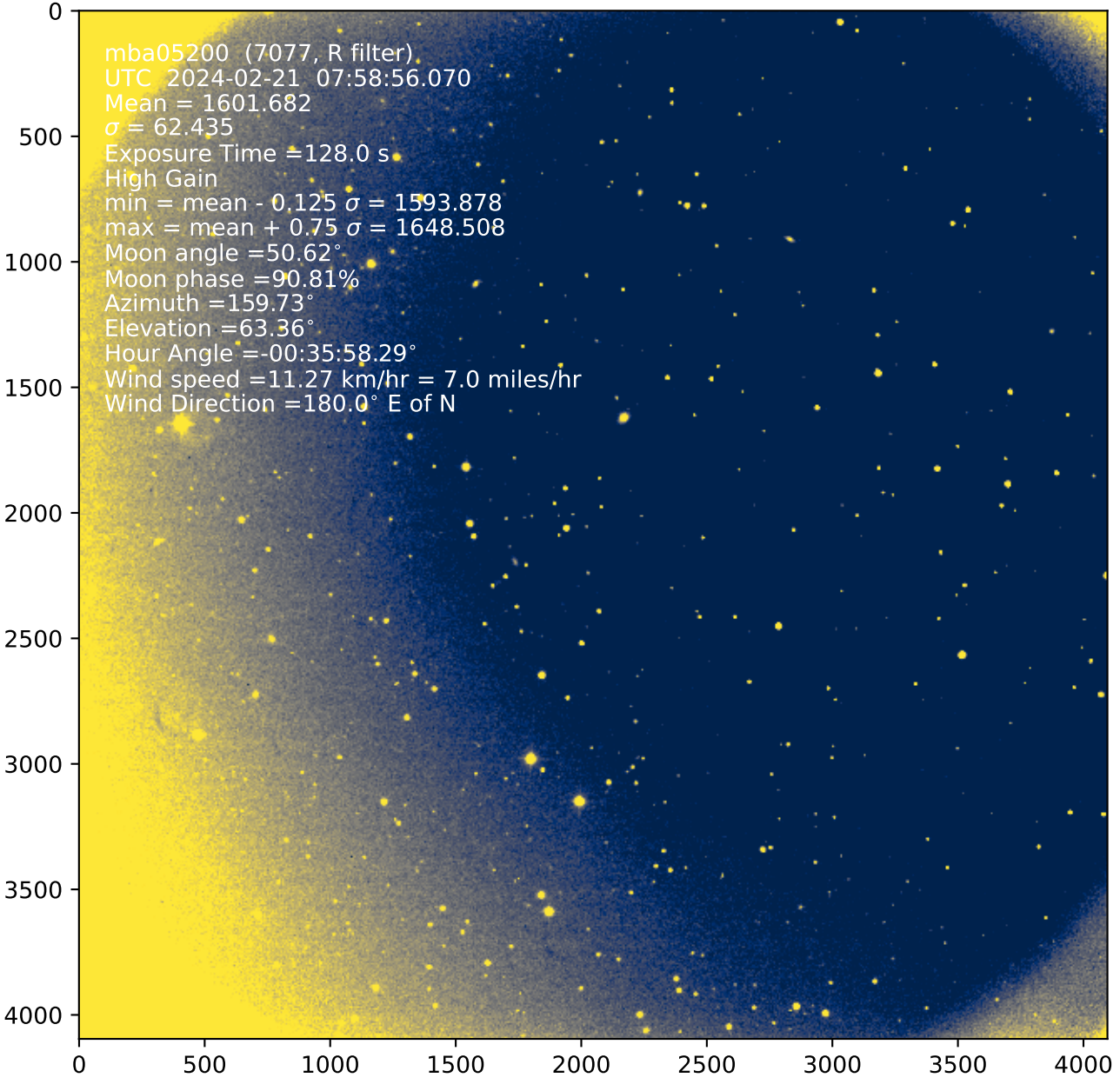

mkr05227f (YZ Cnc, G filter)
UTC 2024-02-21 07:45:36.240
Mean = 1450.387
σ = 34.792
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1446.038
max = mean + 0.75 σ = 1476.481
Moon angle =4.02˚
Moon phase =90.76%
Azimuth =271.63˚
Elevation =60.92˚
Hour Angle =02:13:39.25˚
Wind speed =13.84 km/hr = 8.6 miles/hr
Wind Direction =180.0˚ E of N
0
500
1000
1500
2000
2500
3000
3500
4000

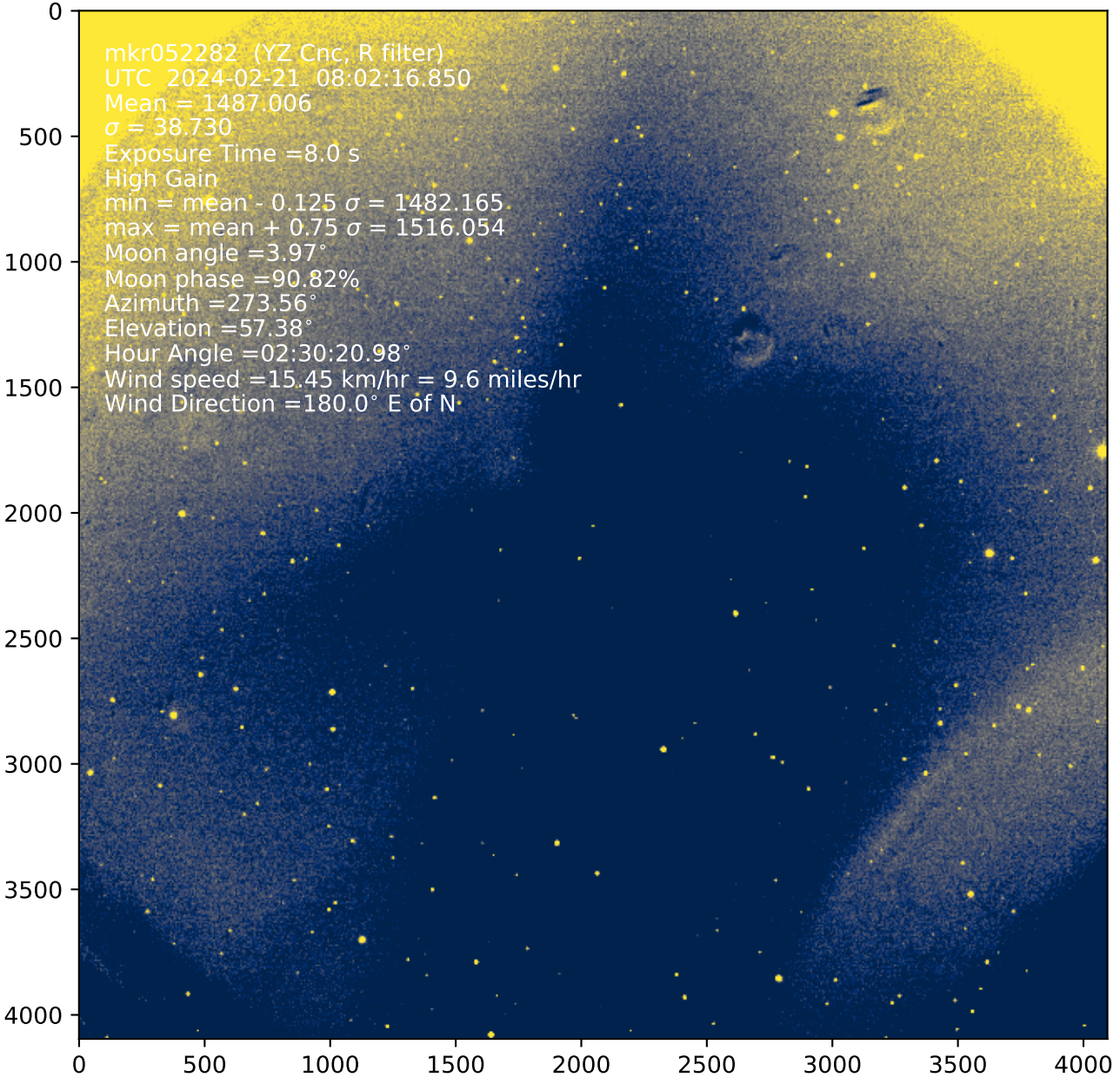

mba05205 (7077, L filter)
UTC 2024-02-21 07:47:18.620
Mean = 2616.471
σ = 88.695
Exposure Time =128.0 s
High Gain
min = mean - 0.125 σ = 2605.384
max = mean + 0.75 σ = 2682.992
Moon angle =50.69°
Moon phase =90.76%
Azimuth =153.75°
Elevation =62.38°
Hour Angle =-00:47:38.20°
Wind speed =12.39 km/hr = 7.7 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000

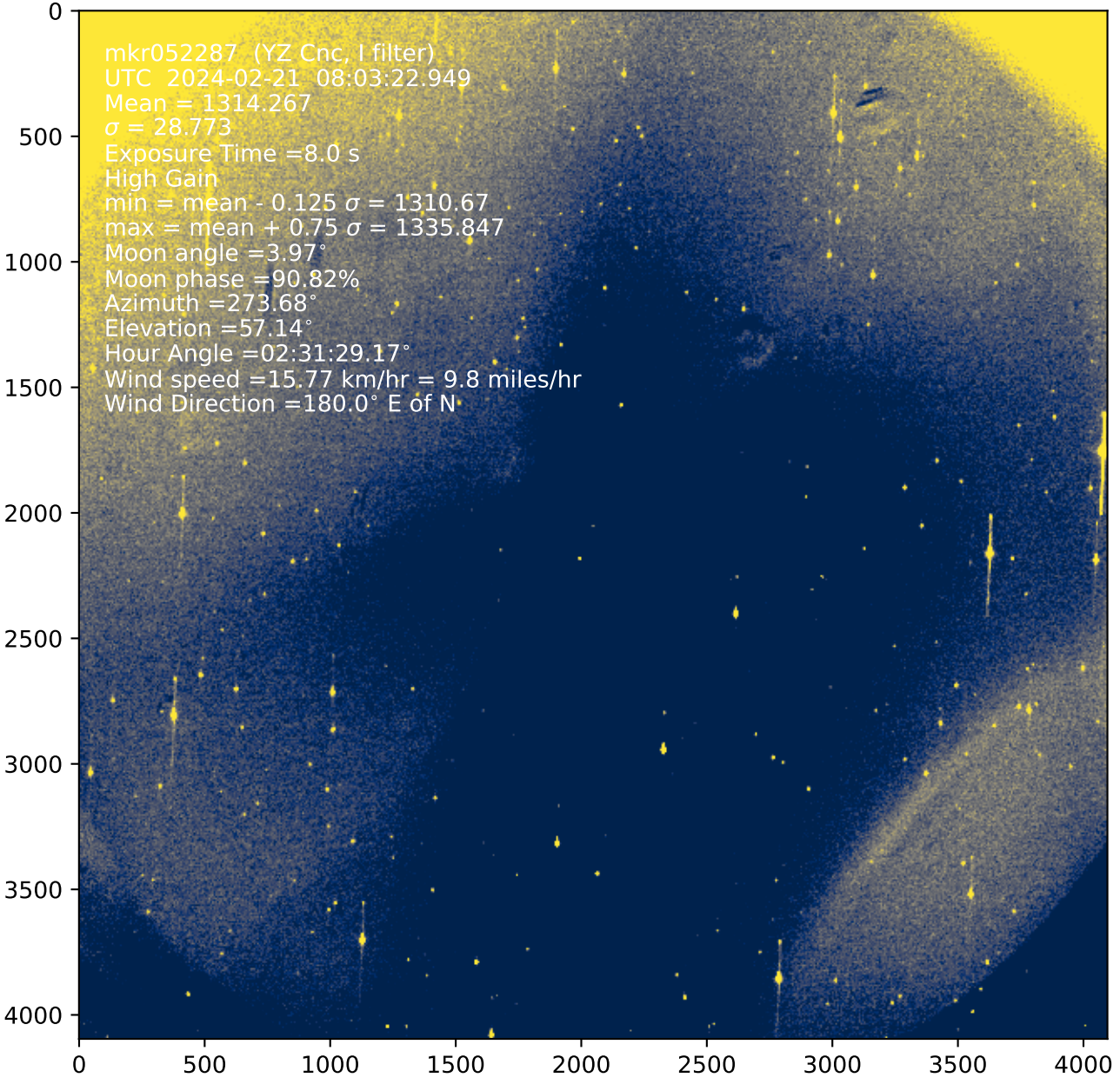

mba05204 (7077, G filter)
UTC 2024-02-21 07:50:58.329
Mean = 1870.163
σ = 57.680
Exposure Time =128.0 s
High Gain
min = mean - 0.125 σ = 1862.953
max = mean + 0.75 σ = 1913.423
Moon angle =50.67°
Moon phase =90.77%
Azimuth =155.08°
Elevation =62.62°
Hour Angle =-00:44:58.77°
Wind speed =12.71 km/hr = 7.9 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000

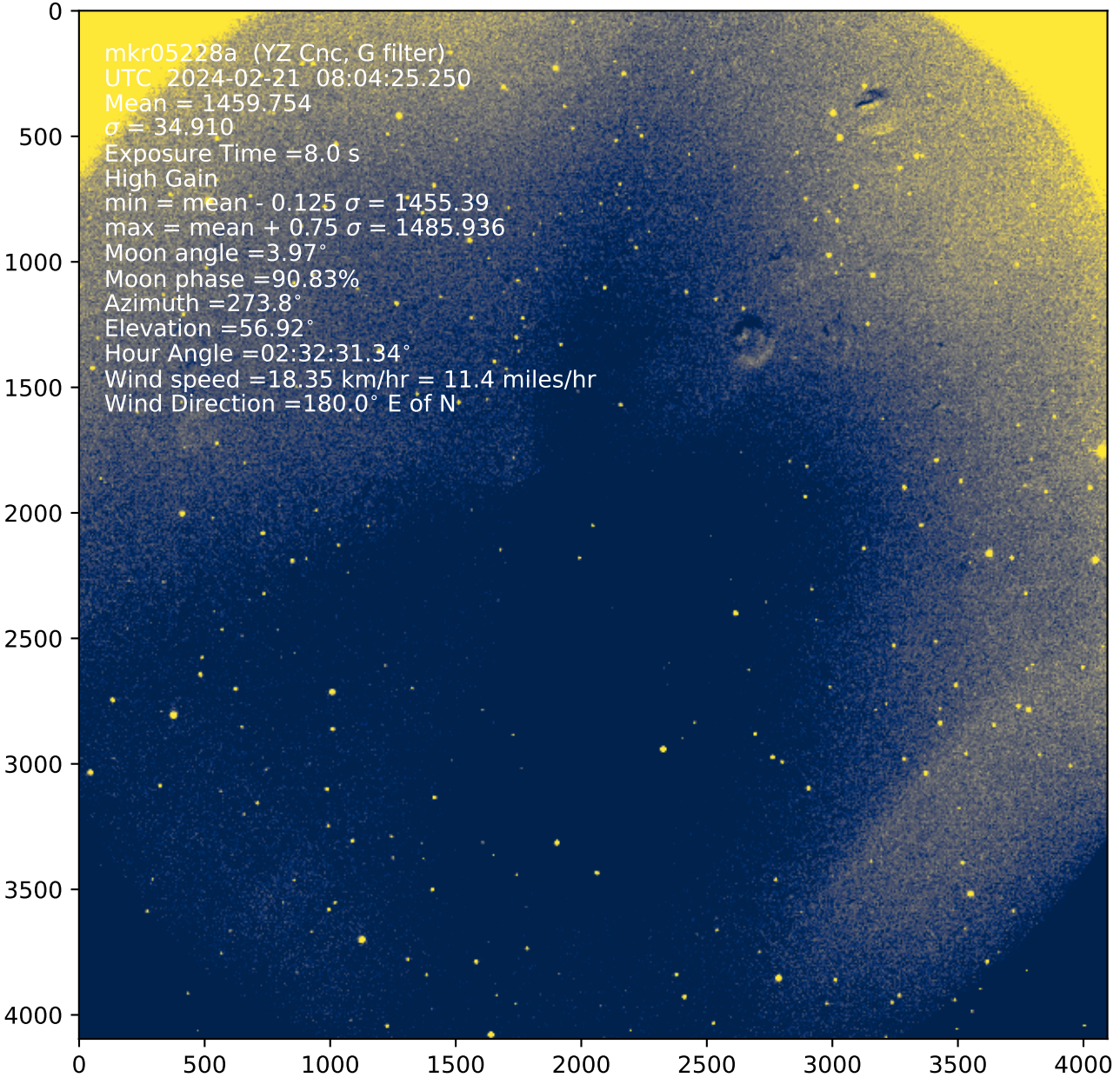

mba05203 (7077, R filter)
UTC 2024-02-21 07:52:31.260
Mean = 1611.185
σ = 62.331
Exposure Time =128.0 s
High Gain
min = mean - 0.125 σ = 1603.394
max = mean + 0.75 σ = 1657.933
Moon angle =50.66°
Moon phase =90.78%
Azimuth =156.39°
Elevation =62.85°
Hour Angle =-00:42:24.34°
Wind speed =12.07 km/hr = 7.5 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000

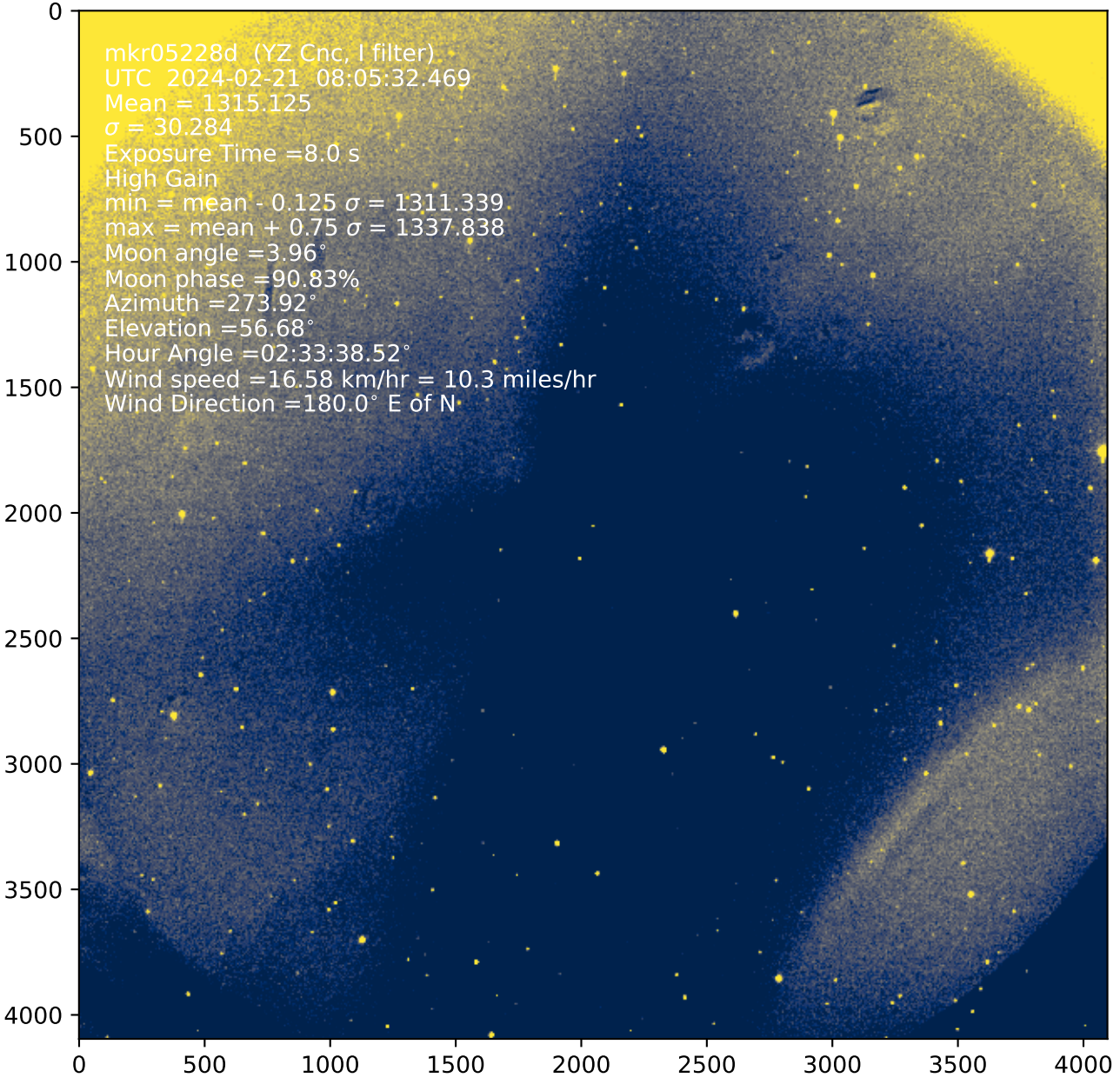

mba05201 (7077, G filter)
UTC 2024-02-21 07:56:23.070
Mean = 1858.638
σ = 57.437
Exposure Time =128.0 s
High Gain
min = mean - 0.125 σ = 1851.458
max = mean + 0.75 σ = 1901.716
Moon angle =50.63°
Moon phase =90.8%
Azimuth =158.39°
Elevation =63.17°
Hour Angle =-00:38:31.71°
Wind speed =13.52 km/hr = 8.4 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000

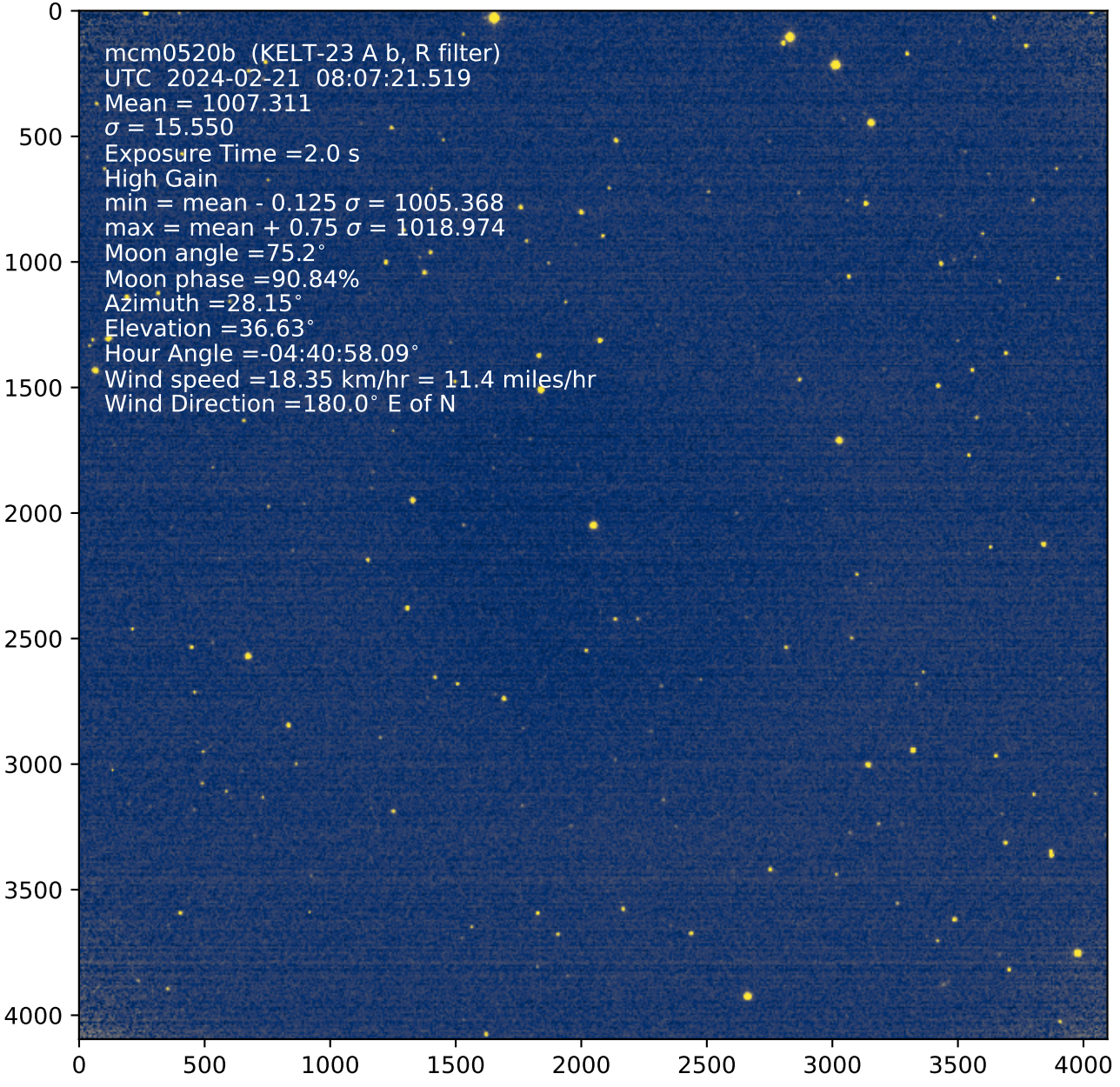

mba05200 (7077, R filter)
UTC 2024-02-21 07:58:56.070
Mean = 1601.682
σ = 62.435
Exposure Time =128.0 s
High Gain
min = mean - 0.125 σ = 1593.878
max = mean + 0.75 σ = 1648.508
Moon angle =50.62°
Moon phase =90.81%
Azimuth =159.73°
Elevation =63.36°
Hour Angle =-00:35:58.29°
Wind speed =11.27 km/hr = 7.0 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000

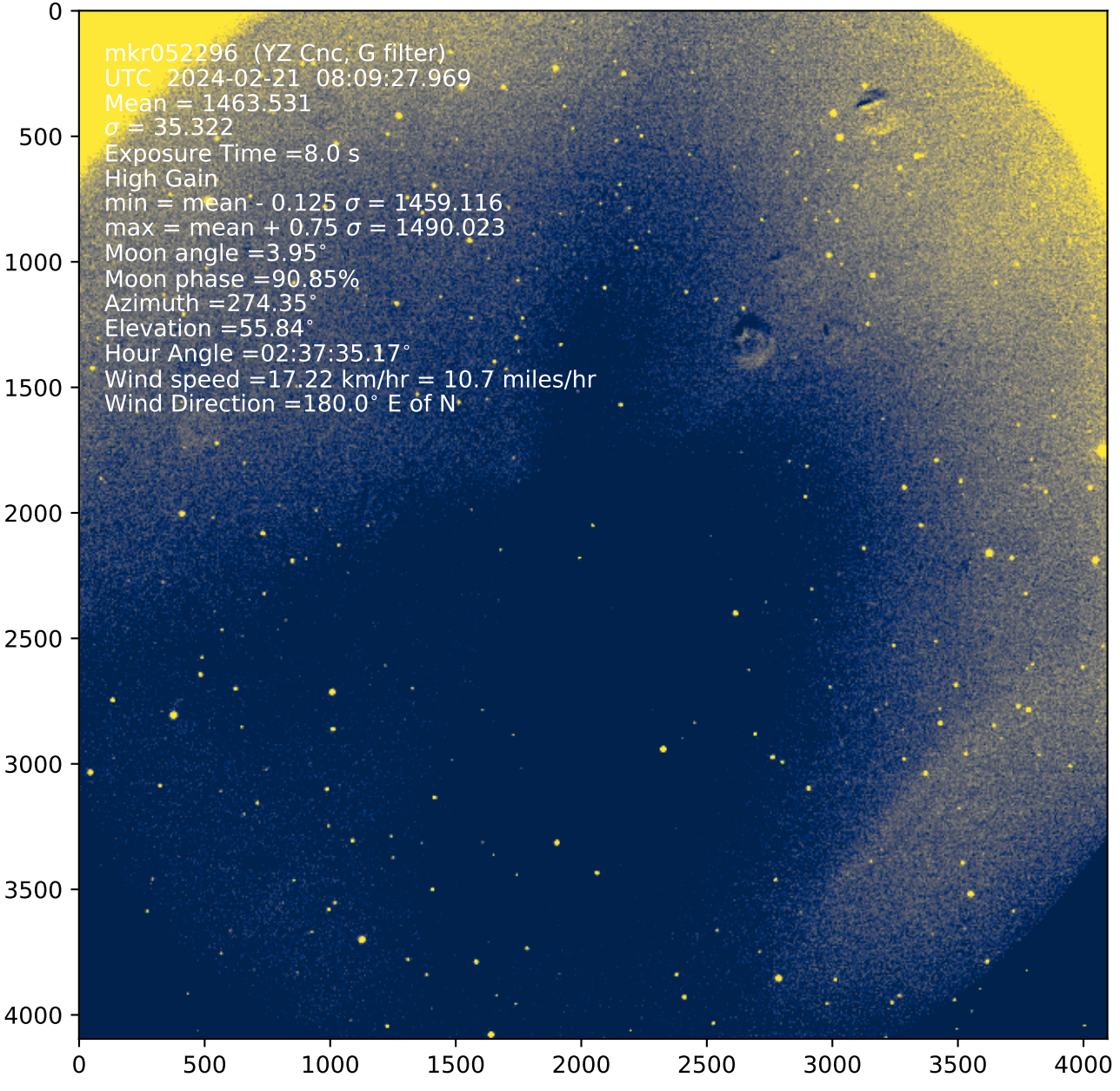

mkr052282 (YZ Cnc, R filter)
UTC 2024-02-21 08:02:16.850
Mean = 1487.006
σ = 38.730
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1482.165
max = mean + 0.75 σ = 1516.054
Moon angle =3.97°
Moon phase =90.82%
Azimuth =273.56°
Elevation =57.38°
Hour Angle =02:30:20.98°
Wind speed =15.45 km/hr = 9.6 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000

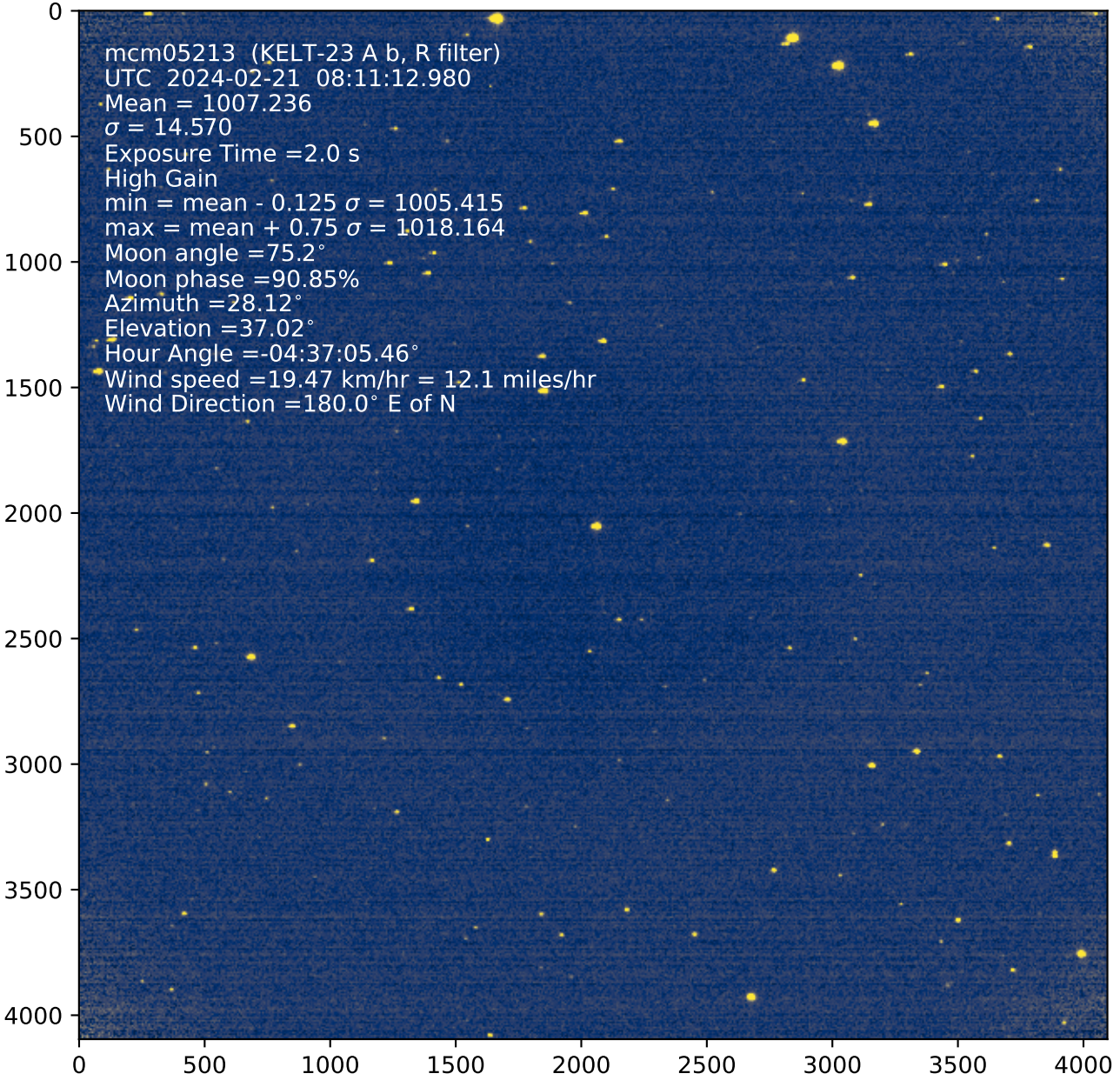

mkr052287 (YZ Cnc, I filter)
UTC 2024-02-21 08:03:22.949
Mean = 1314.267
σ = 28.773
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1310.67
max = mean + 0.75 σ = 1335.847
Moon angle =3.97°
Moon phase =90.82%
Azimuth =273.68°
Elevation =57.14°
Hour Angle =02:31:29.17°
Wind speed =15.77 km/hr = 9.8 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000

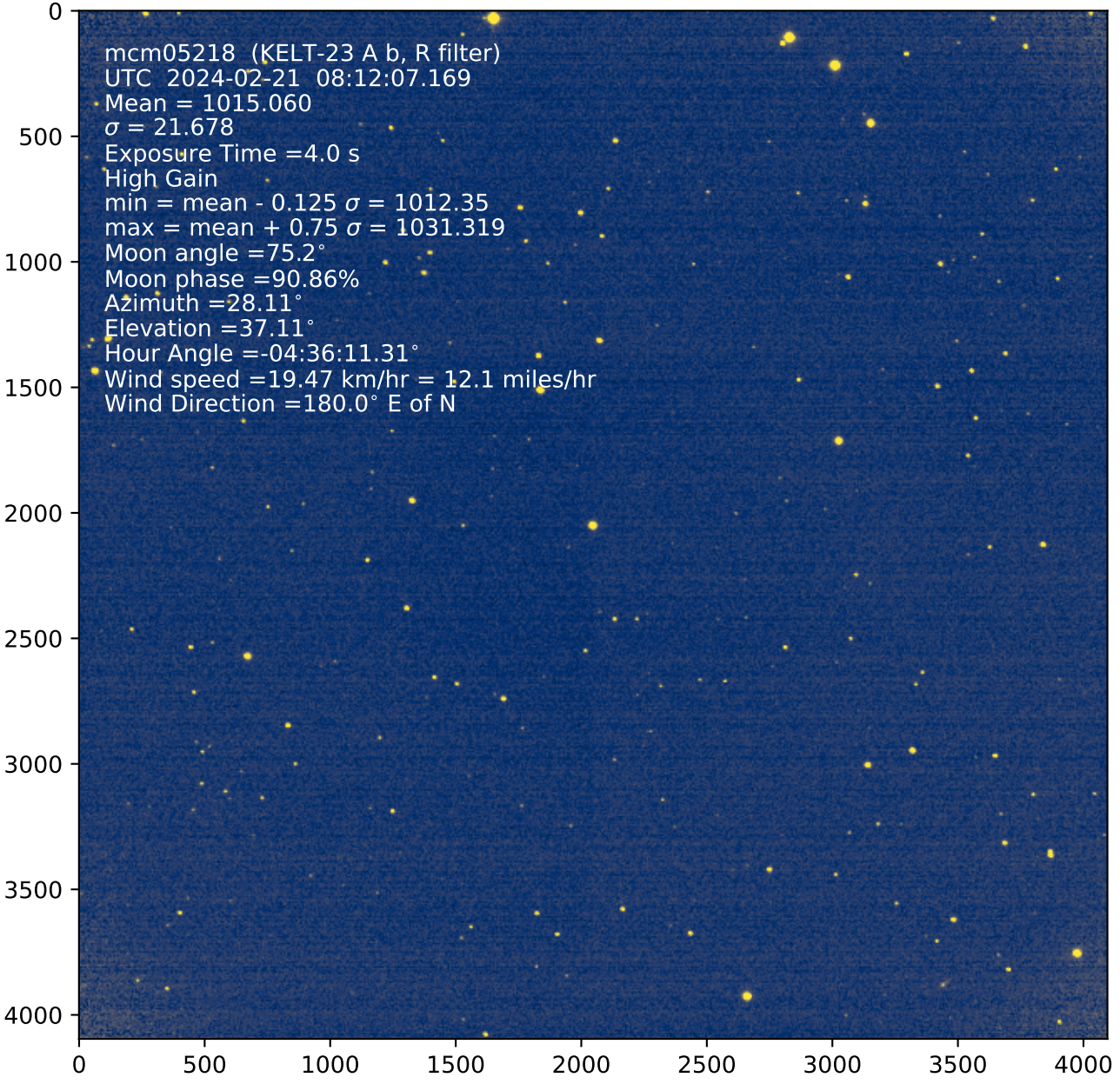

mkr05228a (YZ Cnc, G filter)
UTC 2024-02-21 08:04:25.250
Mean = 1459.754
σ = 34.910
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1455.39
max = mean + 0.75 σ = 1485.936
Moon angle =3.97°
Moon phase =90.83%
Azimuth =273.8°
Elevation =56.92°
Hour Angle =02:32:31.34°
Wind speed =18.35 km/hr = 11.4 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr05228d (YZ Cnc, I filter)
UTC 2024-02-21 08:05:32.469
Mean = 1315.125
σ = 30.284
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1311.339
max = mean + 0.75 σ = 1337.838
Moon angle =3.96°
Moon phase =90.83%
Azimuth =273.92°
Elevation =56.68°
Hour Angle =02:33:38.52°
Wind speed =16.58 km/hr = 10.3 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mcm0520b (KELT-23 A b, R filter)
UTC 2024-02-21 08:07:21.519
Mean = 1007.311
σ = 15.550
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1005.368
max = mean + 0.75 σ = 1018.974
Moon angle =75.2°
Moon phase =90.84%
Azimuth =28.15°
Elevation =36.63°
Hour Angle =-04:40:58.09°
Wind speed =18.35 km/hr = 11.4 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr052296 (YZ Cnc, G filter)
UTC 2024-02-21 08:09:27.969
Mean = 1463.531
σ = 35.322
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1459.116
max = mean + 0.75 σ = 1490.023
Moon angle =3.95°
Moon phase =90.85%
Azimuth =274.35°
Elevation =55.84°
Hour Angle =02:37:35.17°
Wind speed =17.22 km/hr = 10.7 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mcm05213 (KELT-23 A b, R filter)
UTC 2024-02-21 08:11:12.980
Mean = 1007.236
σ = 14.570
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1005.415
max = mean + 0.75 σ = 1018.164
Moon angle =75.2°
Moon phase =90.85%
Azimuth =28.12°
Elevation =37.02°
Hour Angle =-04:37:05.46°
Wind speed =19.47 km/hr = 12.1 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mcm05218 (KELT-23 A b, R filter)
UTC 2024-02-21 08:12:07.169
Mean = 1015.060
σ = 21.678
Exposure Time =4.0 s
High Gain
min = mean - 0.125 σ = 1012.35
max = mean + 0.75 σ = 1031.319
Moon angle =75.2°
Moon phase =90.86%
Azimuth =28.11°
Elevation =37.11°
Hour Angle =-04:36:11.31°
Wind speed =19.47 km/hr = 12.1 miles/hr
Wind Direction =180.0° E of N
0
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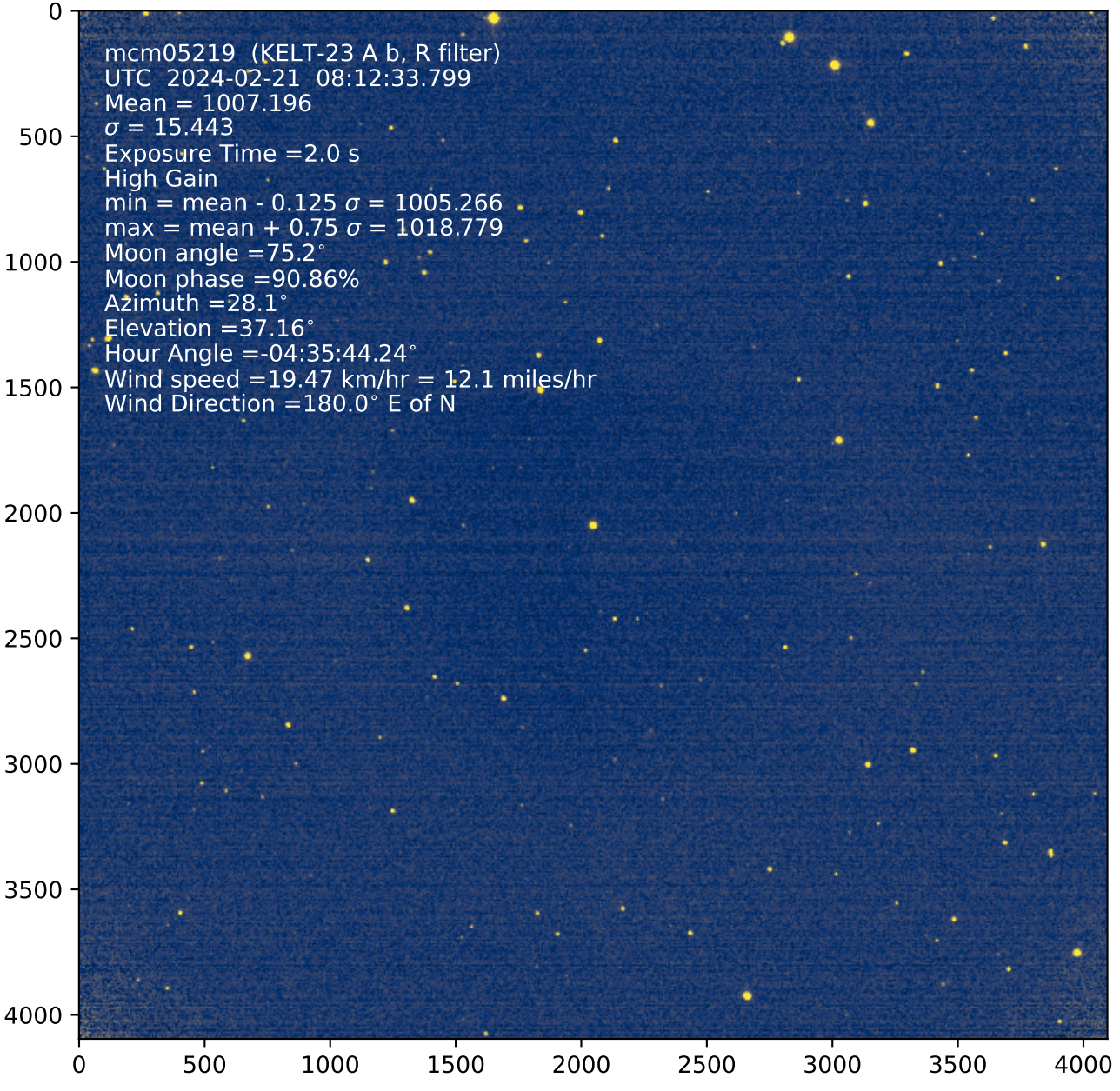
mcm05219 (KELT-23 A b, R filter)
UTC 2024-02-21 08:12:33.799
Mean = 1007.196
σ = 15.443
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1005.266
max = mean + 0.75 σ = 1018.779
Moon angle =75.2°
Moon phase =90.86%
Azimuth =28.1°
Elevation =37.16°
Hour Angle =-04:35:44.24°
Wind speed =19.47 km/hr = 12.1 miles/hr
Wind Direction =180.0° E of N
0
500
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2500
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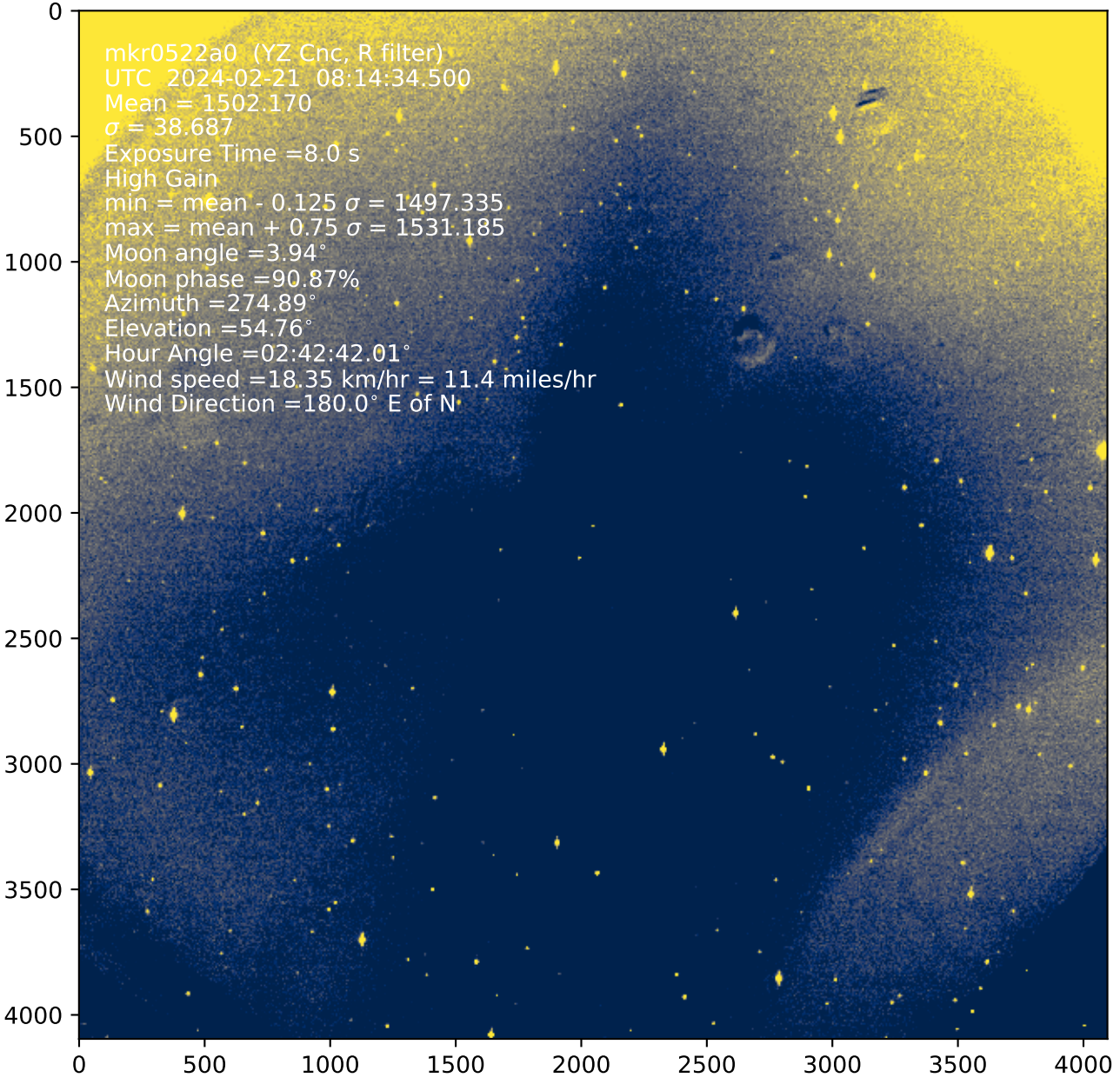
3500
4000


mkr0522a0 (YZ Cnc, R filter)
UTC 2024-02-21 08:14:34.500
Mean = 1502.170
σ = 38.687
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1497.335
max = mean + 0.75 σ = 1531.185
Moon angle =3.94°
Moon phase =90.87%
Azimuth =274.89°
Elevation =54.76°
Hour Angle =02:42:42.01°
Wind speed =18.35 km/hr = 11.4 miles/hr
Wind Direction =180.0° E of N
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500
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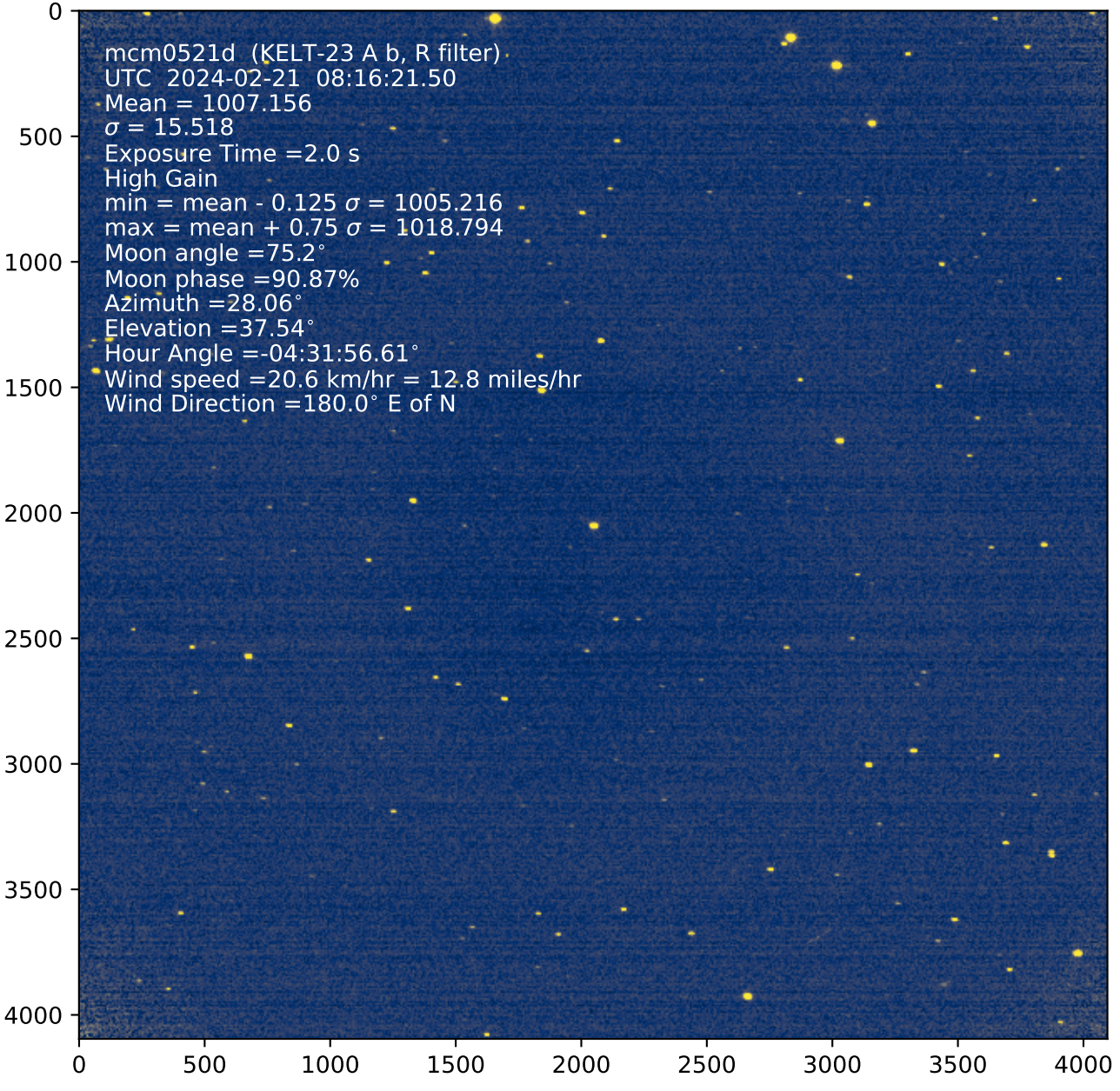
4000


mcm0521d (KELT-23 A b, R filter)
UTC 2024-02-21 08:16:21.50
Mean = 1007.156
σ = 15.518
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1005.216
max = mean + 0.75 σ = 1018.794
Moon angle =75.2°
Moon phase =90.87%
Azimuth =28.06°
Elevation =37.54°
Hour Angle =-04:31:56.61°
Wind speed =20.6 km/hr = 12.8 miles/hr
Wind Direction =180.0° E of N
0
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2500
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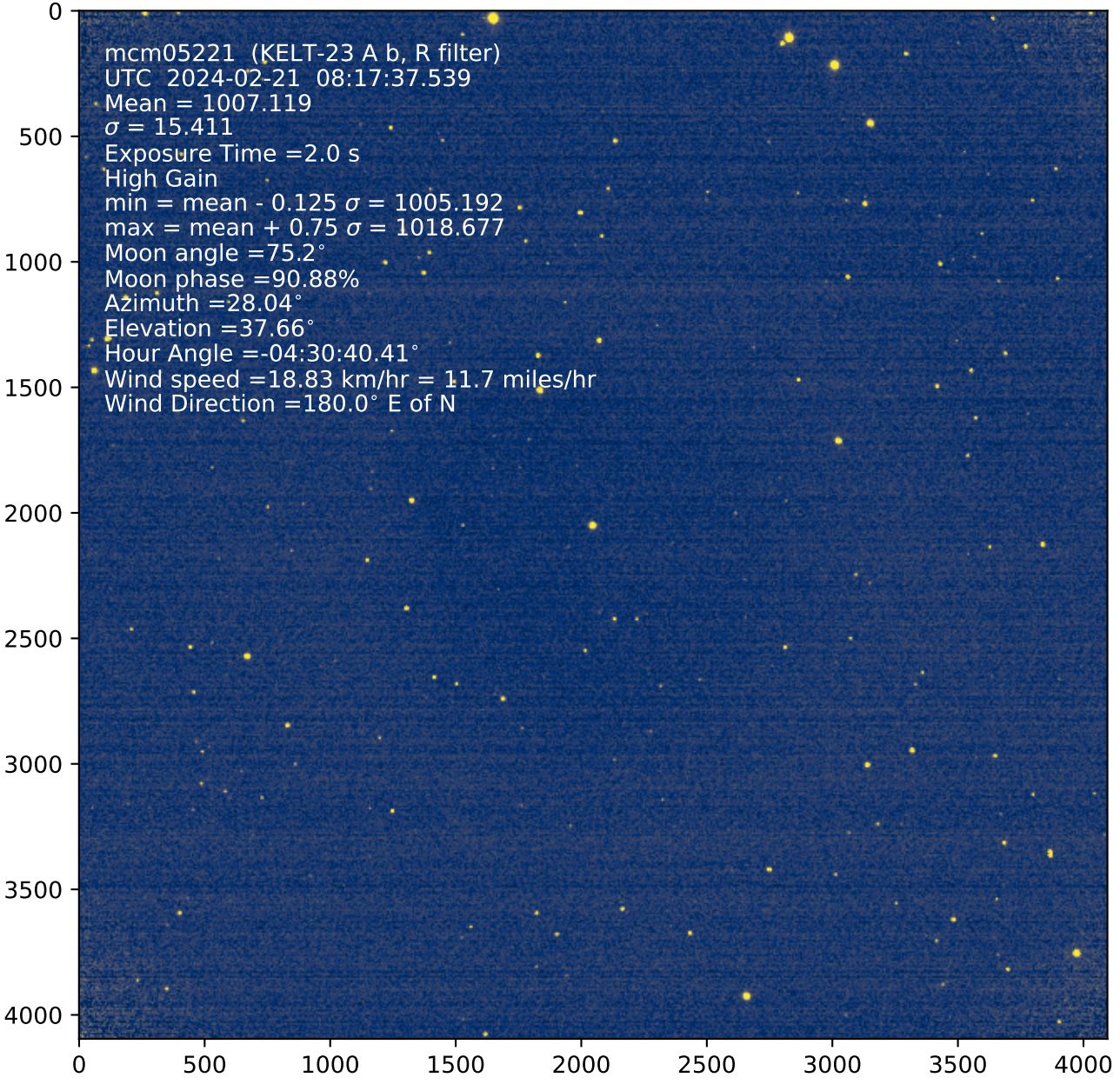
4000


mcm05221 (KELT-23 A b, R filter)
UTC 2024-02-21 08:17:37.539
Mean = 1007.119
σ = 15.411
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1005.192
max = mean + 0.75 σ = 1018.677
Moon angle =75.2°
Moon phase =90.88%
Azimuth =28.04°
Elevation =37.66°
Hour Angle =-04:30:40.41°
Wind speed =18.83 km/hr = 11.7 miles/hr
Wind Direction =180.0° E of N
0
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2500
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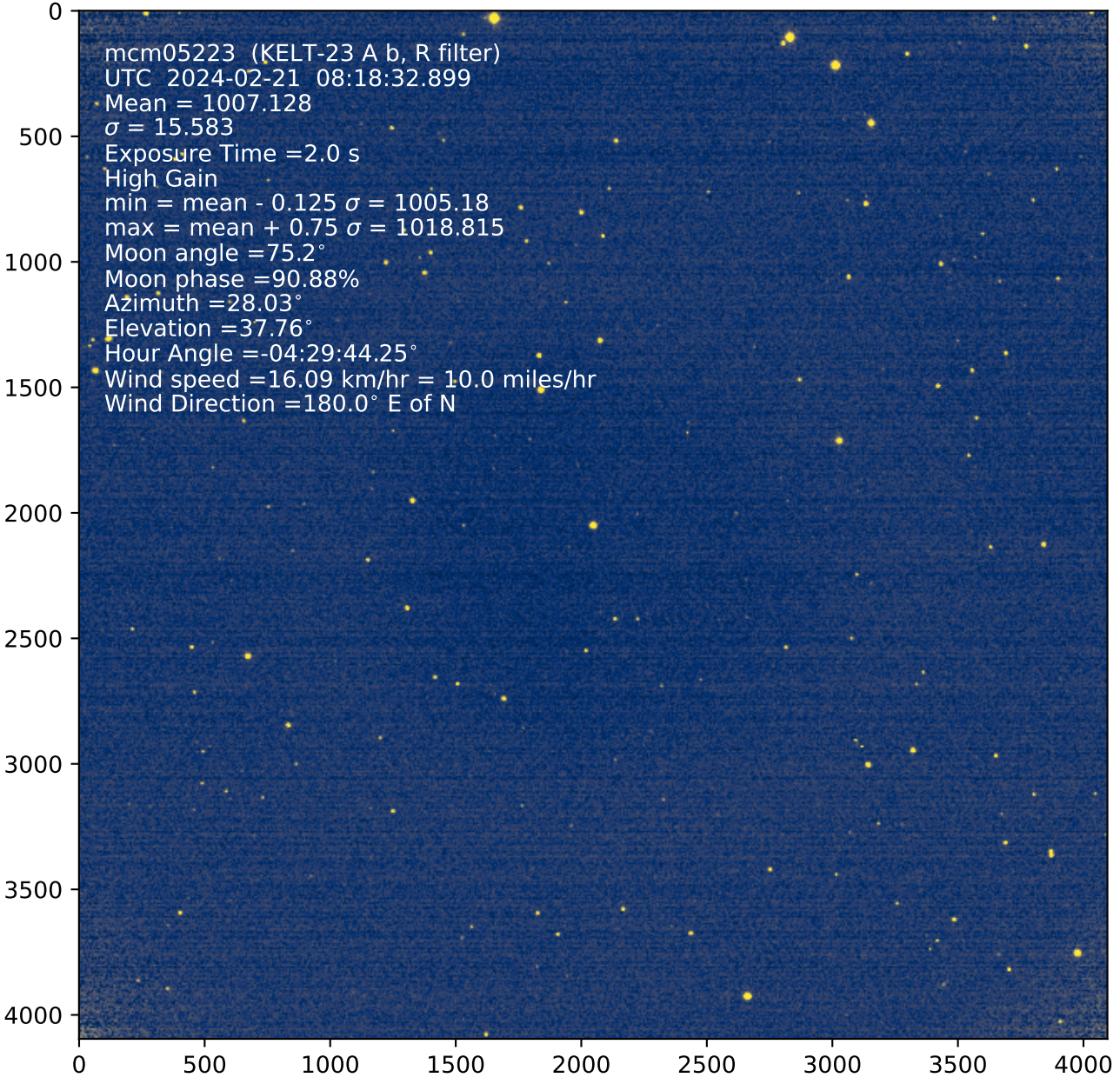
3500
4000


mcm05223 (KELT-23 A b, R filter)
UTC 2024-02-21 08:18:32.899
Mean = 1007.128
σ = 15.583
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1005.18
max = mean + 0.75 σ = 1018.815
Moon angle =75.2°
Moon phase =90.88%
Azimuth =28.03°
Elevation =37.76°
Hour Angle =-04:29:44.25°
Wind speed =16.09 km/hr = 10.0 miles/hr
Wind Direction =180.0° E of N
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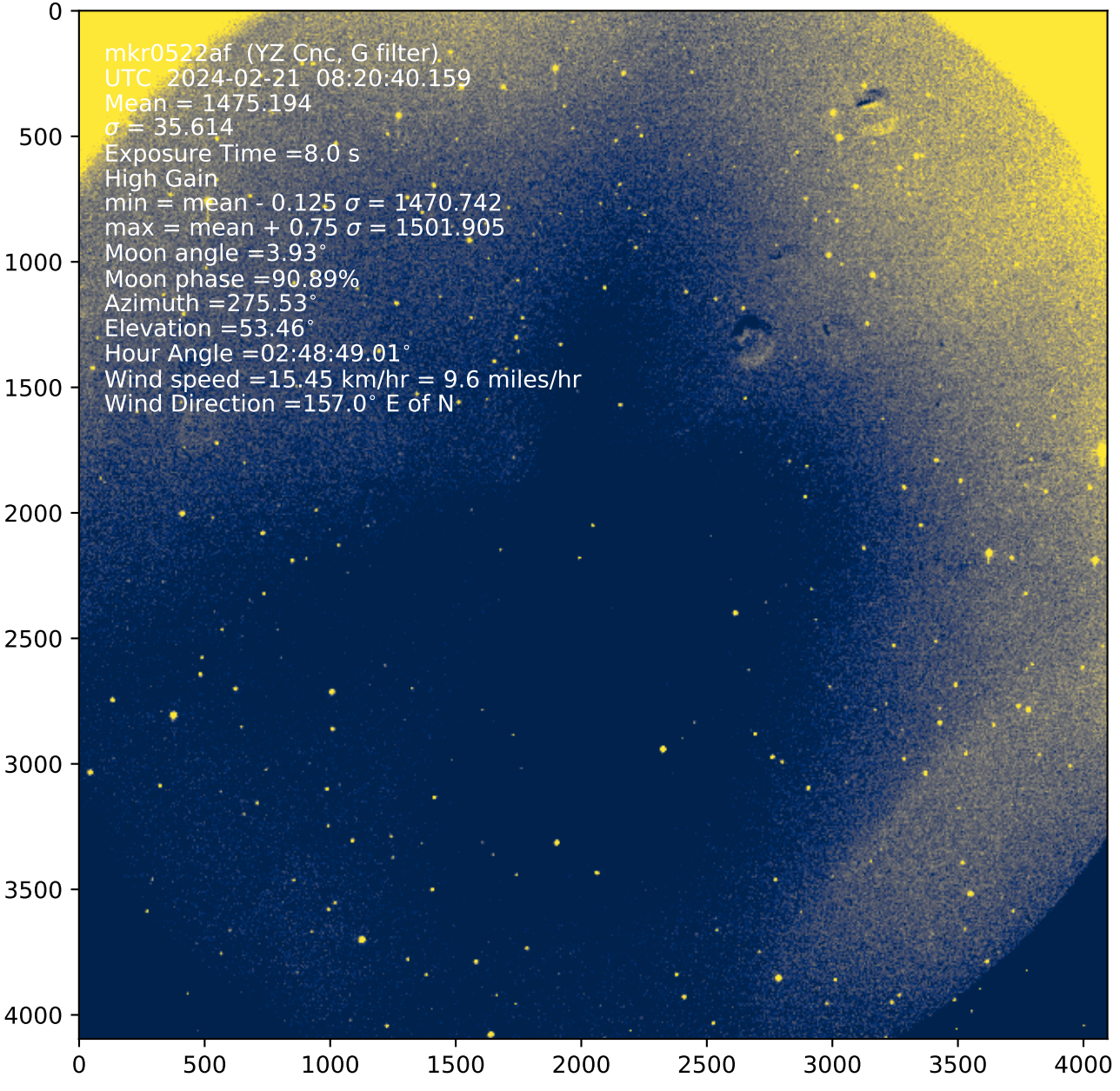
4000


mkr0522af (YZ Cnc, G filter)
UTC 2024-02-21 08:20:40.159
Mean = 1475.194
σ = 35.614
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1470.742
max = mean + 0.75 σ = 1501.905
Moon angle =3.93˚
Moon phase =90.89%
Azimuth =275.53˚
Elevation =53.46˚
Hour Angle =02:48:49.01˚
Wind speed =15.45 km/hr = 9.6 miles/hr
Wind Direction =157.0˚ E of N
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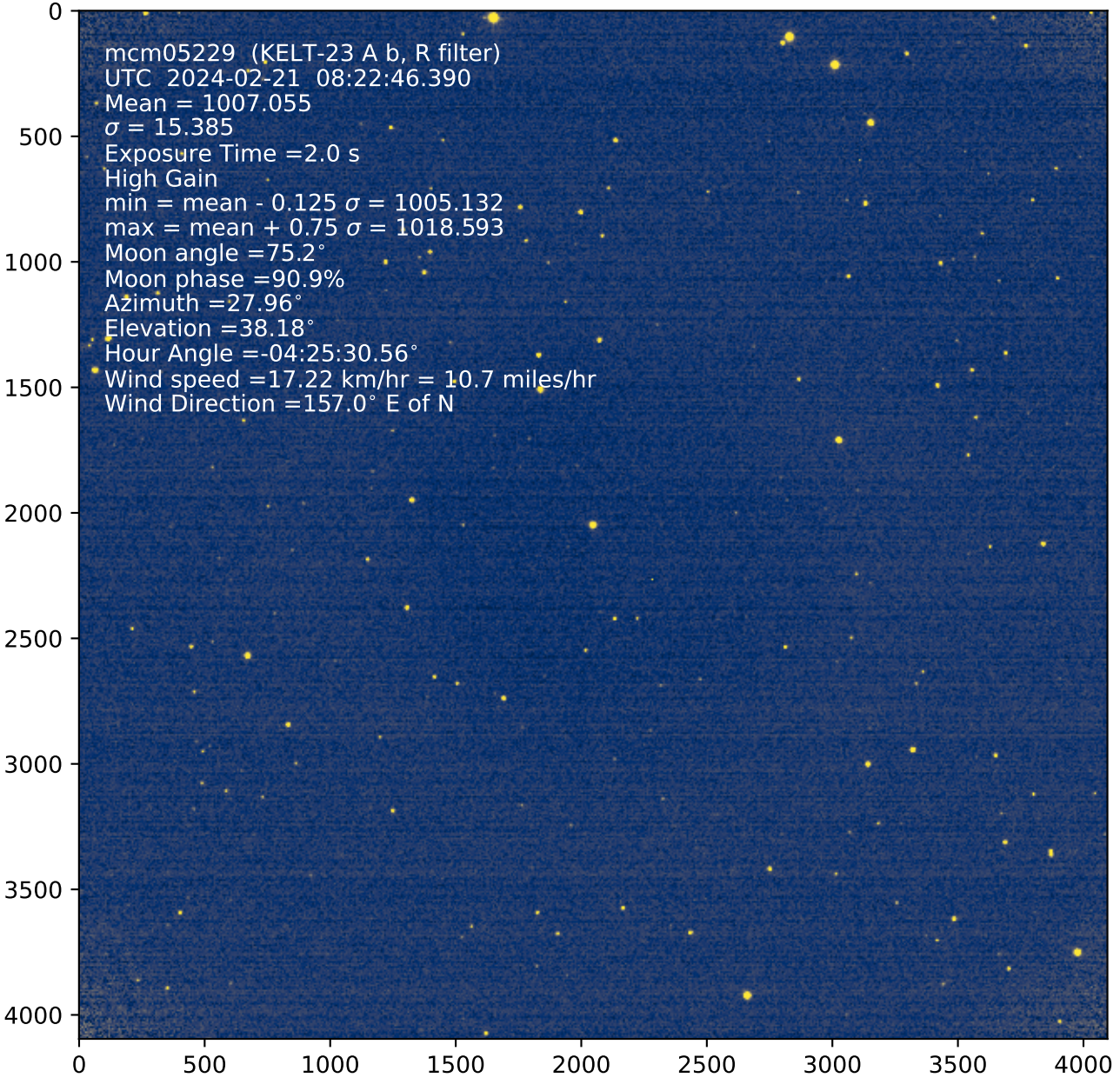
4000


mcm05229 (KELT-23 A b, R filter)
UTC 2024-02-21 08:22:46.390
Mean = 1007.055
σ = 15.385
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1005.132
max = mean + 0.75 σ = 1018.593
Moon angle =75.2°
Moon phase =90.9%
Azimuth =27.96°
Elevation =38.18°
Hour Angle =-04:25:30.56°
Wind speed =17.22 km/hr = 10.7 miles/hr
Wind Direction =157.0° E of N
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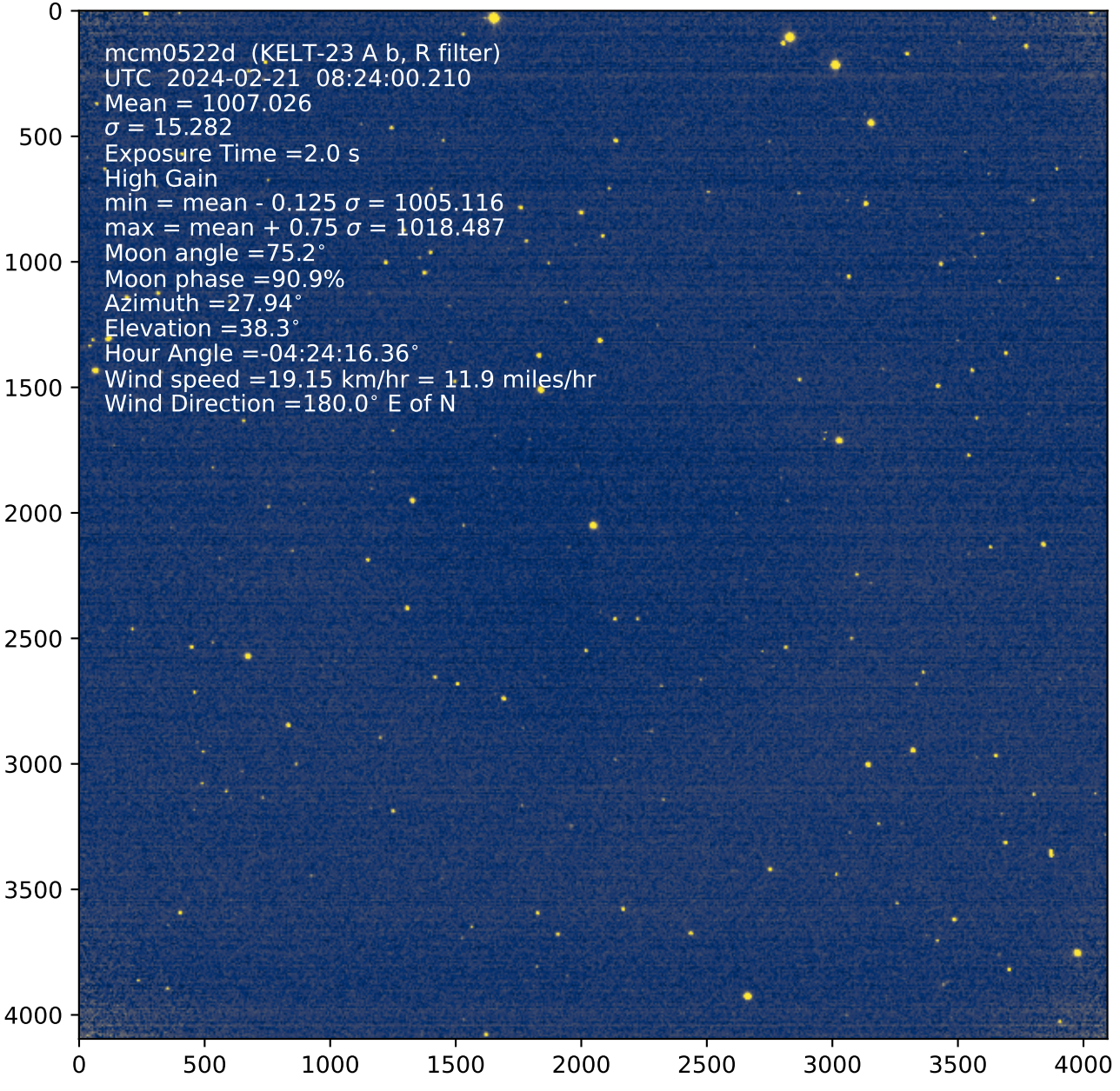
4000


mcm0522d (KELT-23 A b, R filter)
UTC 2024-02-21 08:24:00.210
Mean = 1007.026
σ = 15.282
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1005.116
max = mean + 0.75 σ = 1018.487
Moon angle =75.2°
Moon phase =90.9%
Azimuth =27.94°
Elevation =38.3°
Hour Angle =-04:24:16.36°
Wind speed =19.15 km/hr = 11.9 miles/hr
Wind Direction =180.0° E of N
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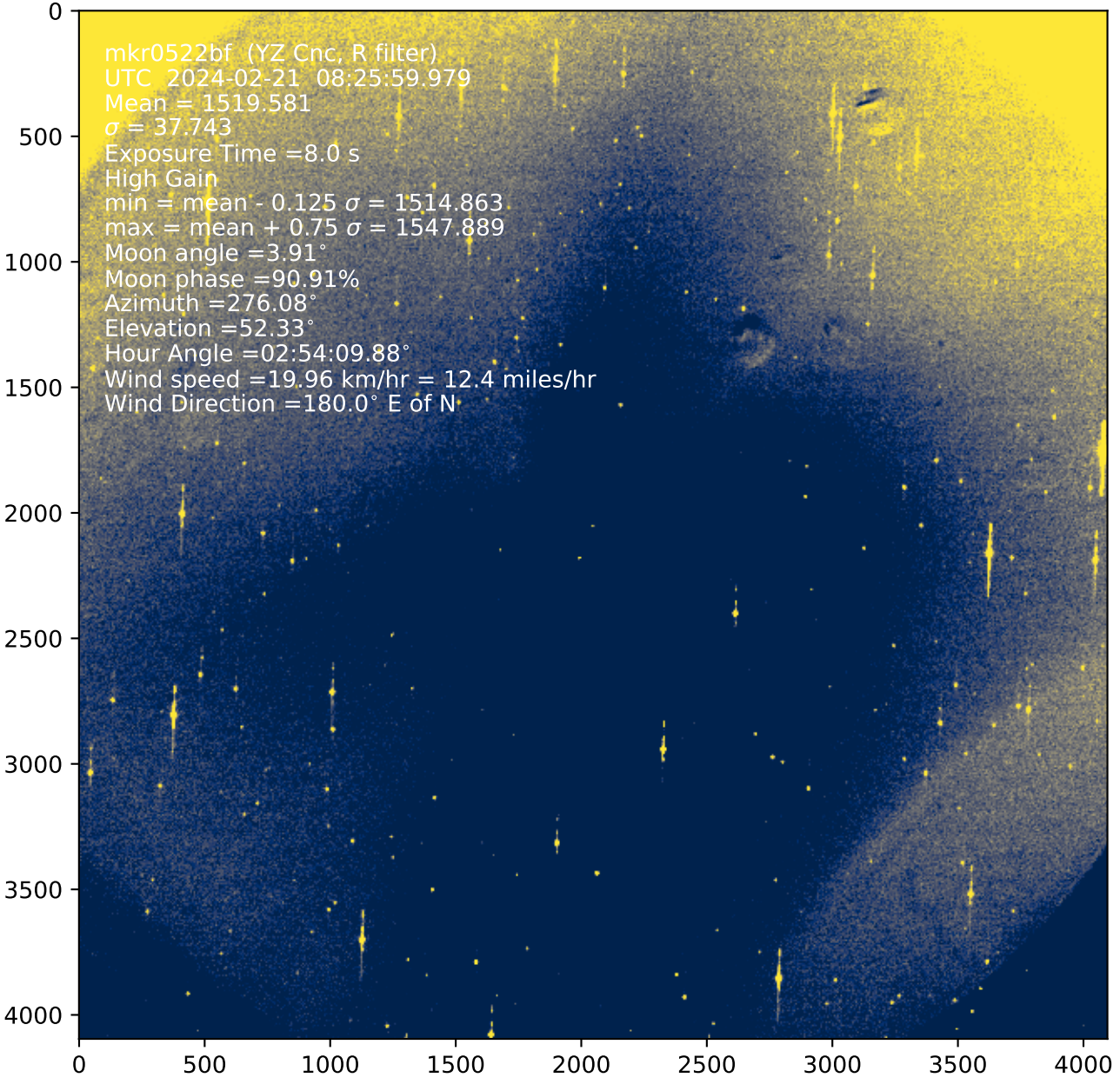
3500
4000


mkr0522bf (YZ Cnc, R filter)
UTC 2024-02-21 08:25:59.979
Mean = 1519.581
σ = 37.743
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1514.863
max = mean + 0.75 σ = 1547.889
Moon angle =3.91°
Moon phase =90.91%
Azimuth =276.08°
Elevation =52.33°
Hour Angle =02:54:09.88°
Wind speed =19.96 km/hr = 12.4 miles/hr
Wind Direction =180.0° E of N
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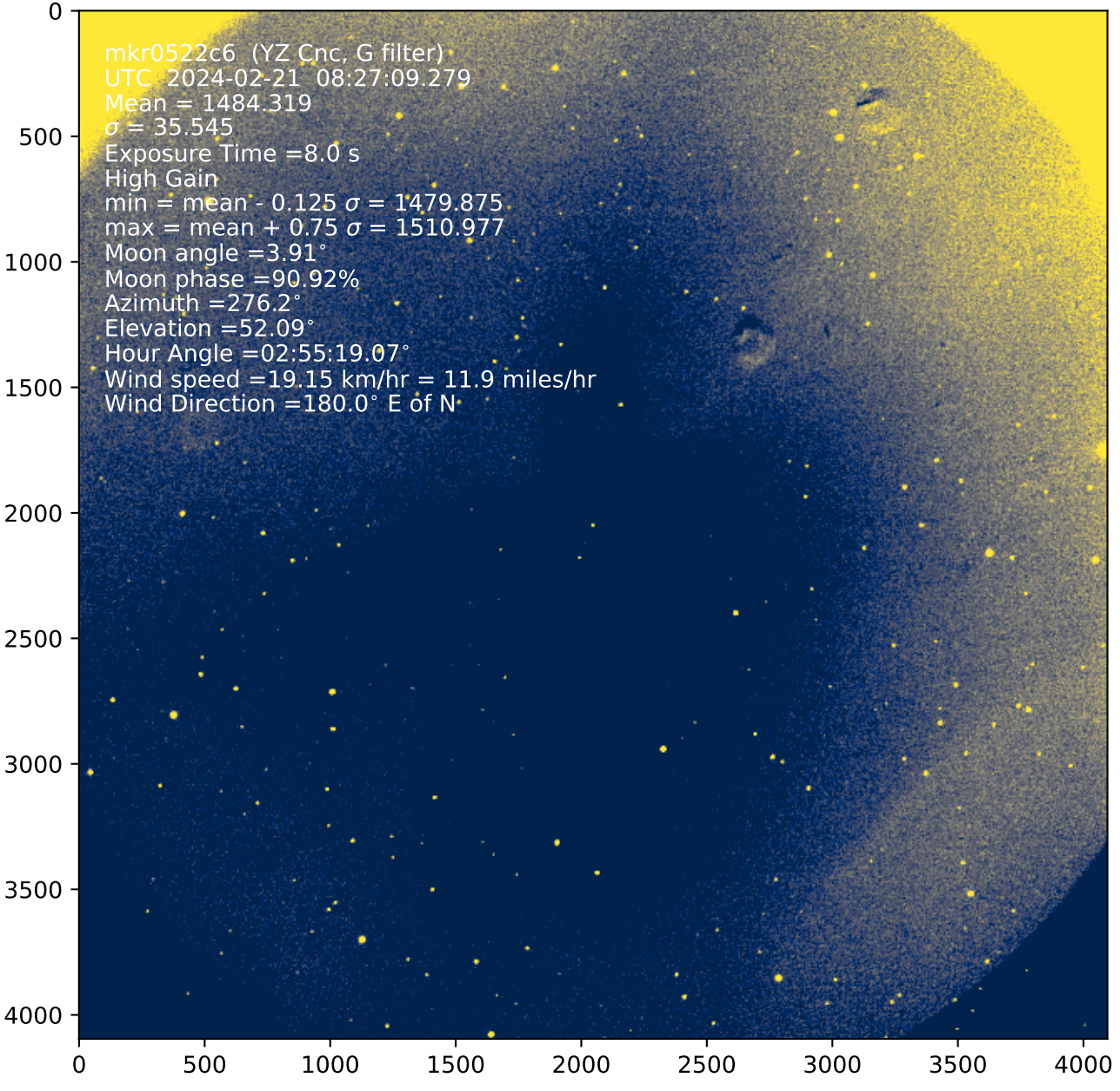
mkr0522c6 (YZ Cnc, G filter)
UTC 2024-02-21 08:27:09.279
Mean = 1484.319
σ = 35.545
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1479.875
max = mean + 0.75 σ = 1510.977
Moon angle =3.91°
Moon phase =90.92%
Azimuth =276.2°
Elevation =52.09°
Hour Angle =02:55:19.07°
Wind speed =19.15 km/hr = 11.9 miles/hr
Wind Direction =180.0° E of N
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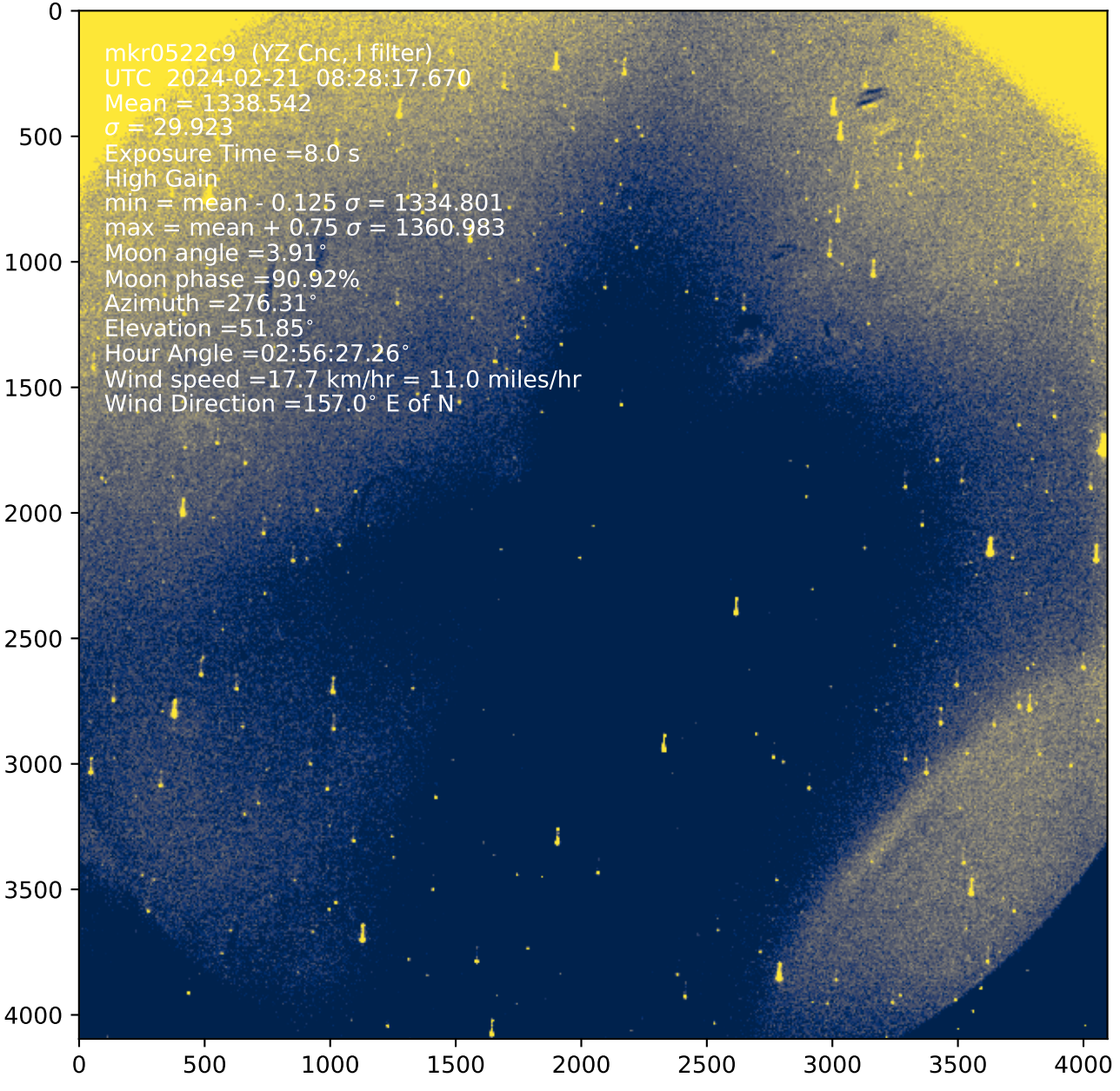
mkr0522c9 (YZ Cnc, I filter)
UTC 2024-02-21 08:28:17.670
Mean = 1338.542
σ = 29.923
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1334.801
max = mean + 0.75 σ = 1360.983
Moon angle =3.91°
Moon phase =90.92%
Azimuth =276.31°
Elevation =51.85°
Hour Angle =02:56:27.26°
Wind speed =17.7 km/hr = 11.0 miles/hr
Wind Direction =157.0° E of N
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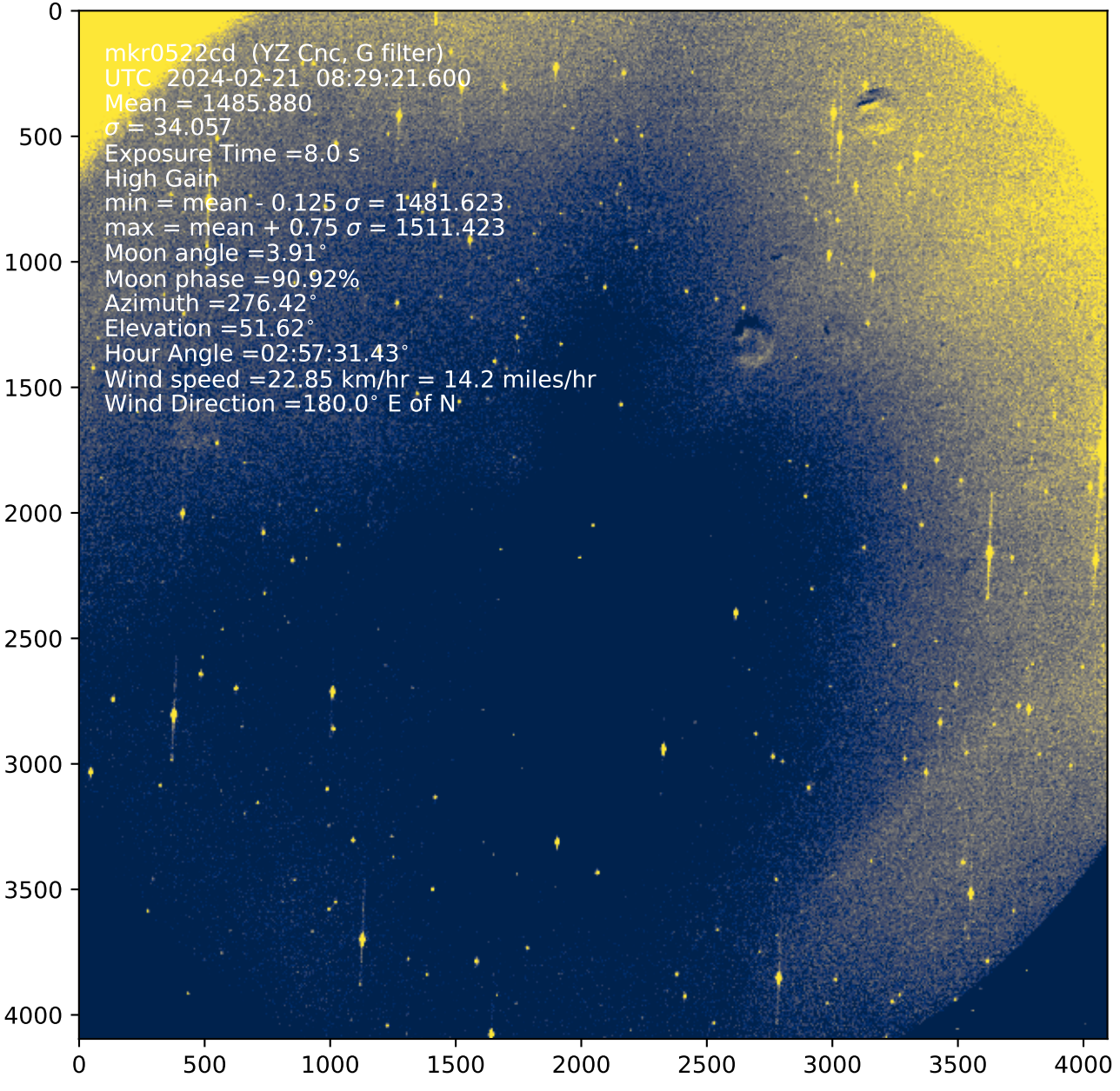
mkr0522cd (YZ Cnc, G filter)
UTC 2024-02-21 08:29:21.600
Mean = 1485.880
σ = 34.057
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1481.623
max = mean + 0.75 σ = 1511.423
Moon angle =3.91°
Moon phase =90.92%
Azimuth =276.42°
Elevation =51.62°
Hour Angle =02:57:31.43°
Wind speed =22.85 km/hr = 14.2 miles/hr
Wind Direction =180.0° E of N
0
500
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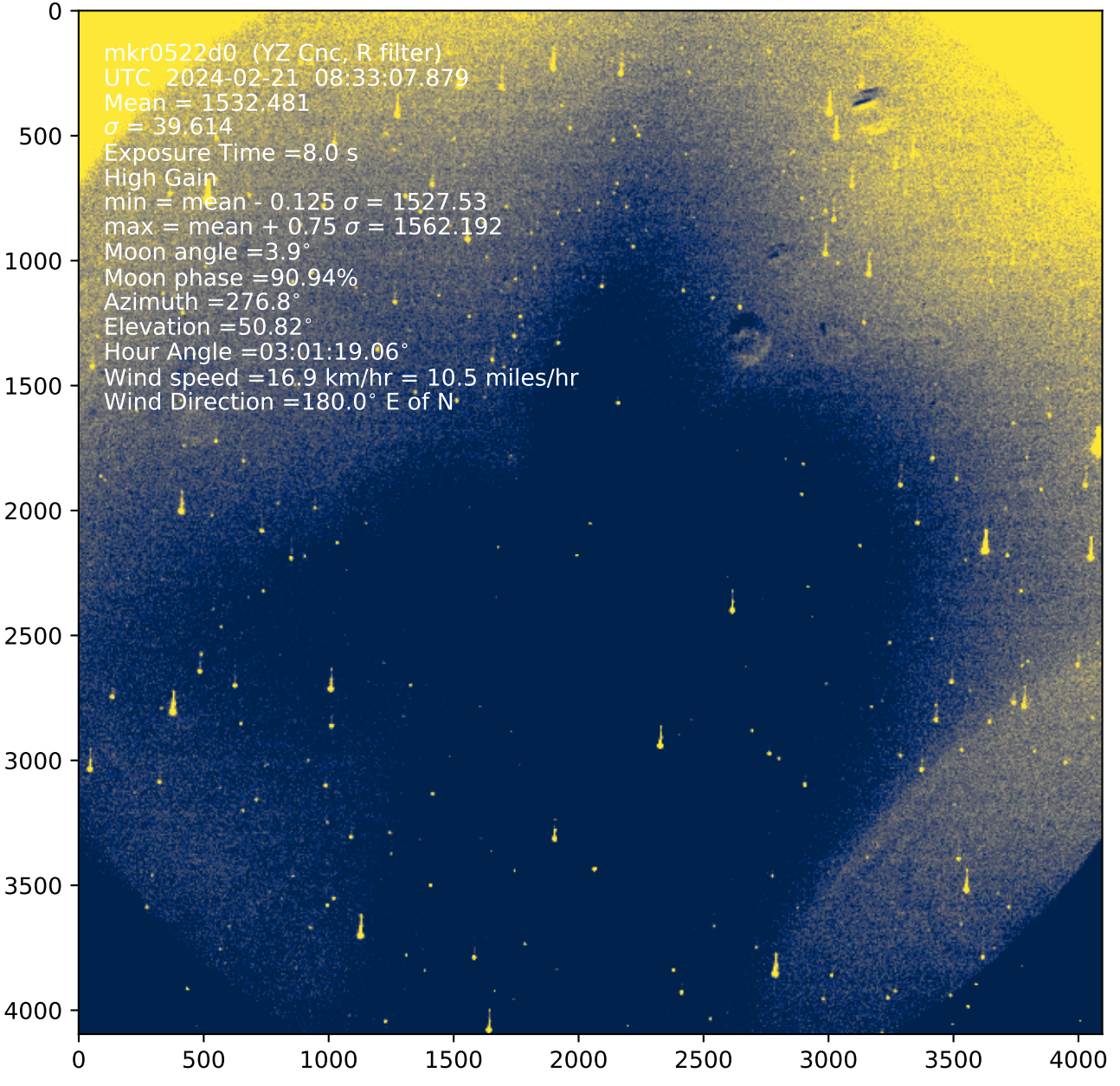
2500
3000
3500
4000


mkr0522d0 (YZ Cnc, R filter)
UTC 2024-02-21 08:33:07.879
Mean = 1532.481
σ = 39.614
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1527.53
max = mean + 0.75 σ = 1562.192
Moon angle =3.9°
Moon phase =90.94%
Azimuth =276.8°
Elevation =50.82°
Hour Angle =03:01:19.06°
Wind speed =16.9 km/hr = 10.5 miles/hr
Wind Direction =180.0° E of N
0
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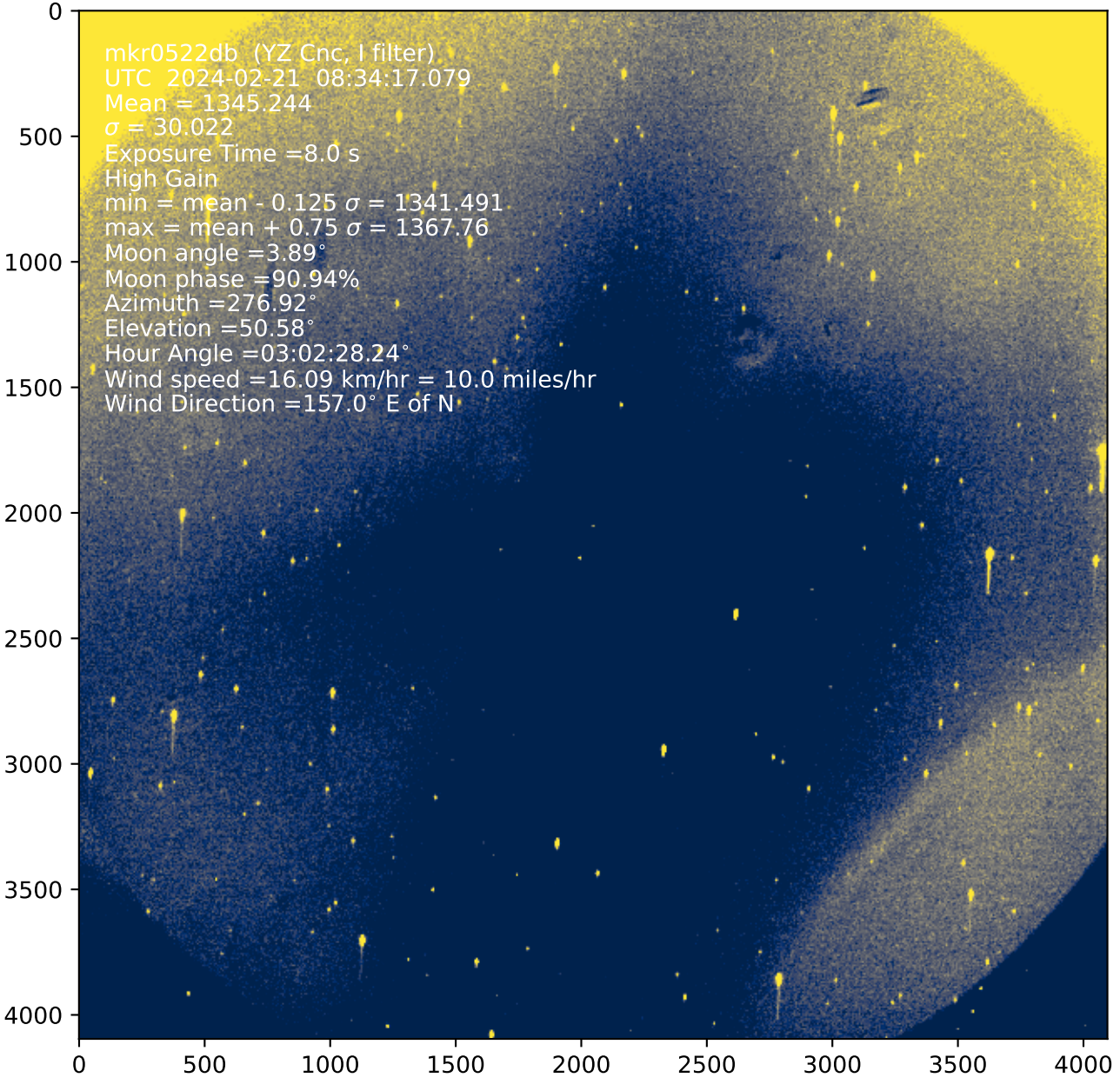
mkr0522db (YZ Cnc, I filter)
UTC 2024-02-21 08:34:17.079
Mean = 1345.244
σ = 30.022
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1341.491
max = mean + 0.75 σ = 1367.76
Moon angle =3.89°
Moon phase =90.94%
Azimuth =276.92°
Elevation =50.58°
Hour Angle =03:02:28.24°
Wind speed =16.09 km/hr = 10.0 miles/hr
Wind Direction =157.0° E of N
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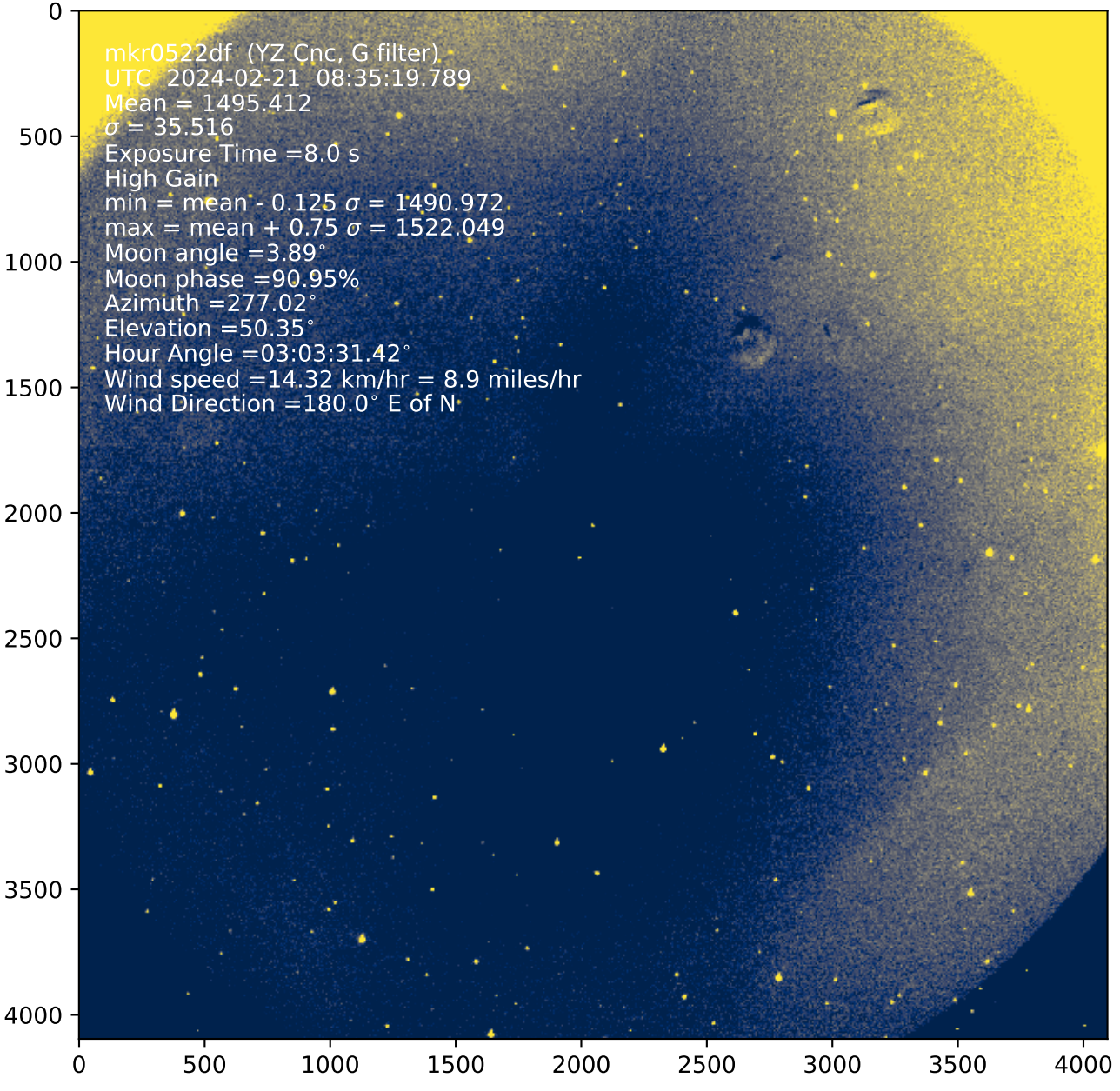
mkr0522df (YZ Cnc, G filter)
UTC 2024-02-21 08:35:19.789
Mean = 1495.412
σ = 35.516
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1490.972
max = mean + 0.75 σ = 1522.049
Moon angle =3.89°
Moon phase =90.95%
Azimuth =277.02°
Elevation =50.35°
Hour Angle =03:03:31.42°
Wind speed =14.32 km/hr = 8.9 miles/hr
Wind Direction =180.0° E of N
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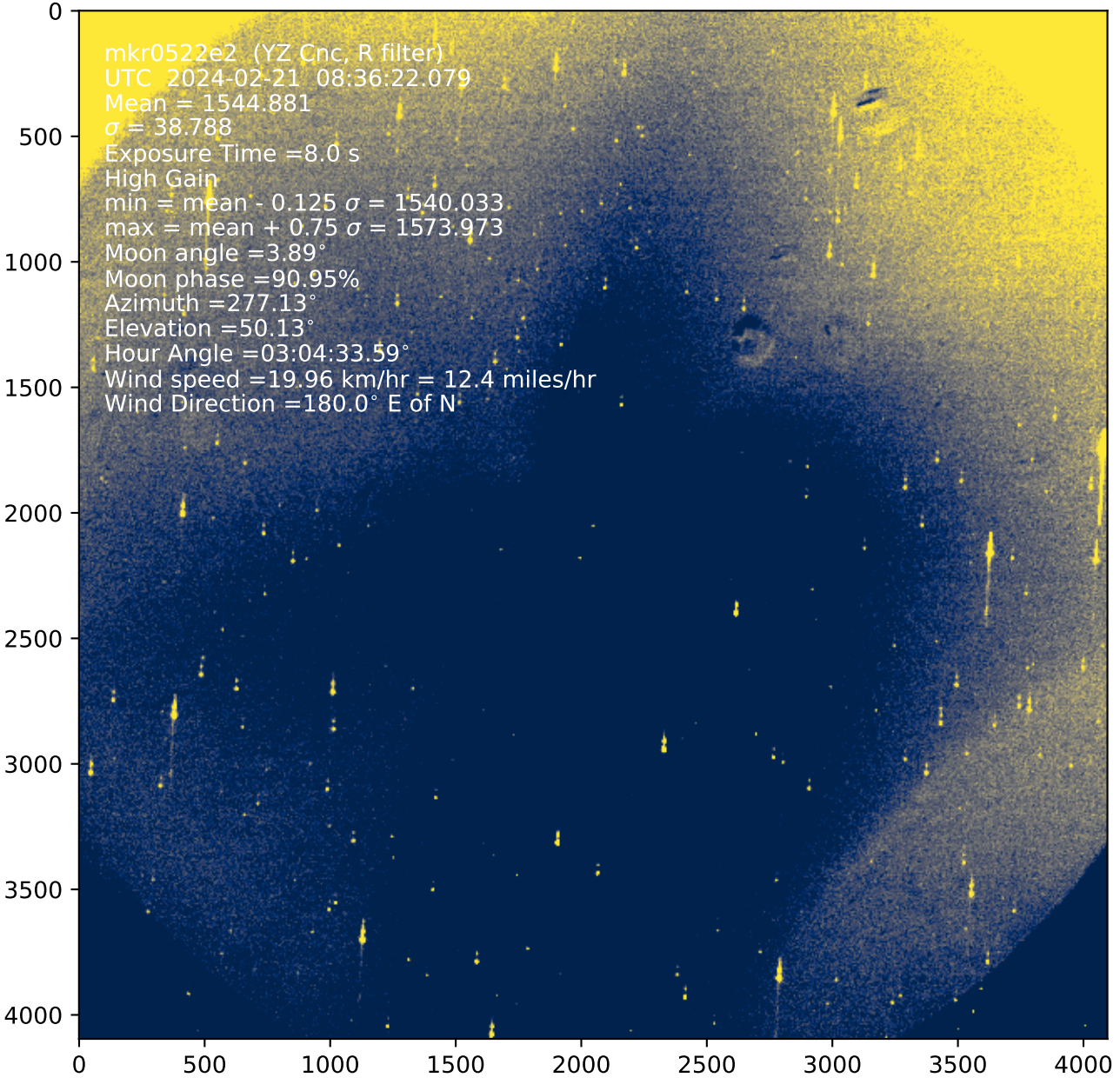
3500
4000


mkr0522e2 (YZ Cnc, R filter)
UTC 2024-02-21 08:36:22.079
Mean = 1544.881
σ = 38.788
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1540.033
max = mean + 0.75 σ = 1573.973
Moon angle =3.89°
Moon phase =90.95%
Azimuth =277.13°
Elevation =50.13°
Hour Angle =03:04:33.59°
Wind speed =19.96 km/hr = 12.4 miles/hr
Wind Direction =180.0° E of N
0
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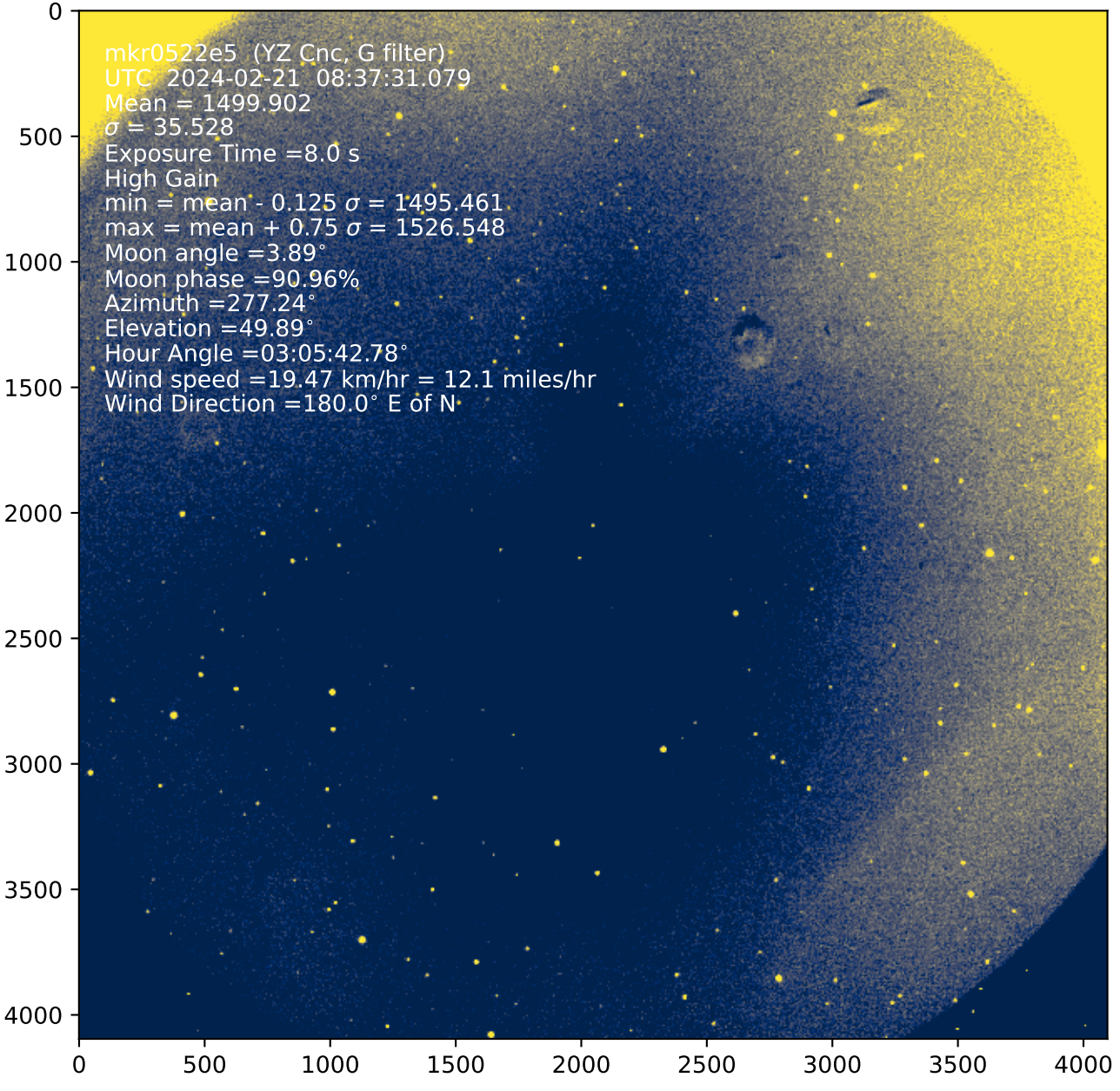
4000


mkr0522e5 (YZ Cnc, G filter)
UTC 2024-02-21 08:37:31.079
Mean = 1499.902
σ = 35.528
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1495.461
max = mean + 0.75 σ = 1526.548
Moon angle =3.89°
Moon phase =90.96%
Azimuth =277.24°
Elevation =49.89°
Hour Angle =03:05:42.78°
Wind speed =19.47 km/hr = 12.1 miles/hr
Wind Direction =180.0° E of N
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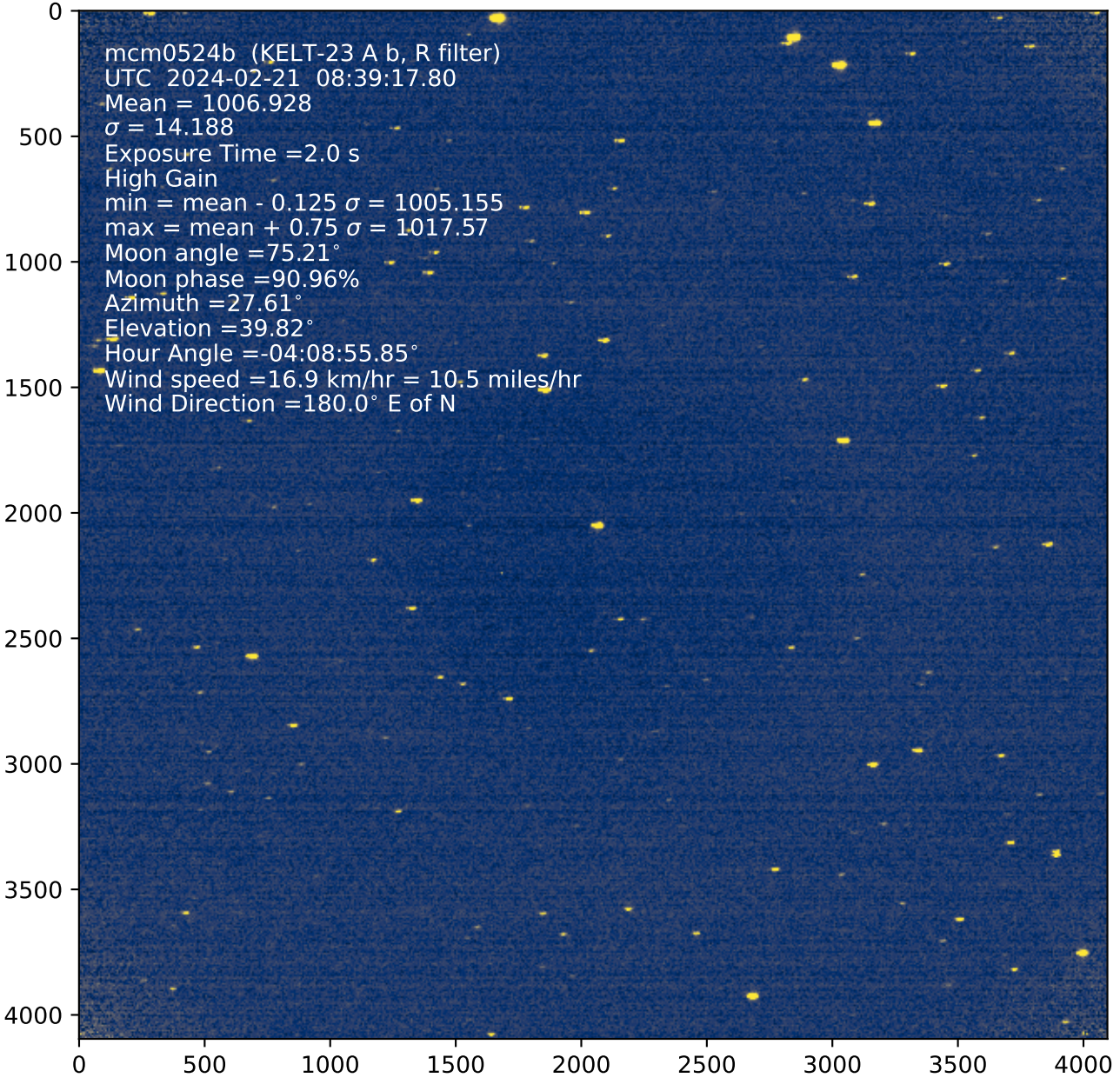
3500
4000


mcm0524b (KELT-23 A b, R filter)
UTC 2024-02-21 08:39:17.80
Mean = 1006.928
σ = 14.188
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1005.155
max = mean + 0.75 σ = 1017.57
Moon angle =75.21°
Moon phase =90.96%
Azimuth =27.61°
Elevation =39.82°
Hour Angle =-04:08:55.85°
Wind speed =16.9 km/hr = 10.5 miles/hr
Wind Direction =180.0° E of N
0
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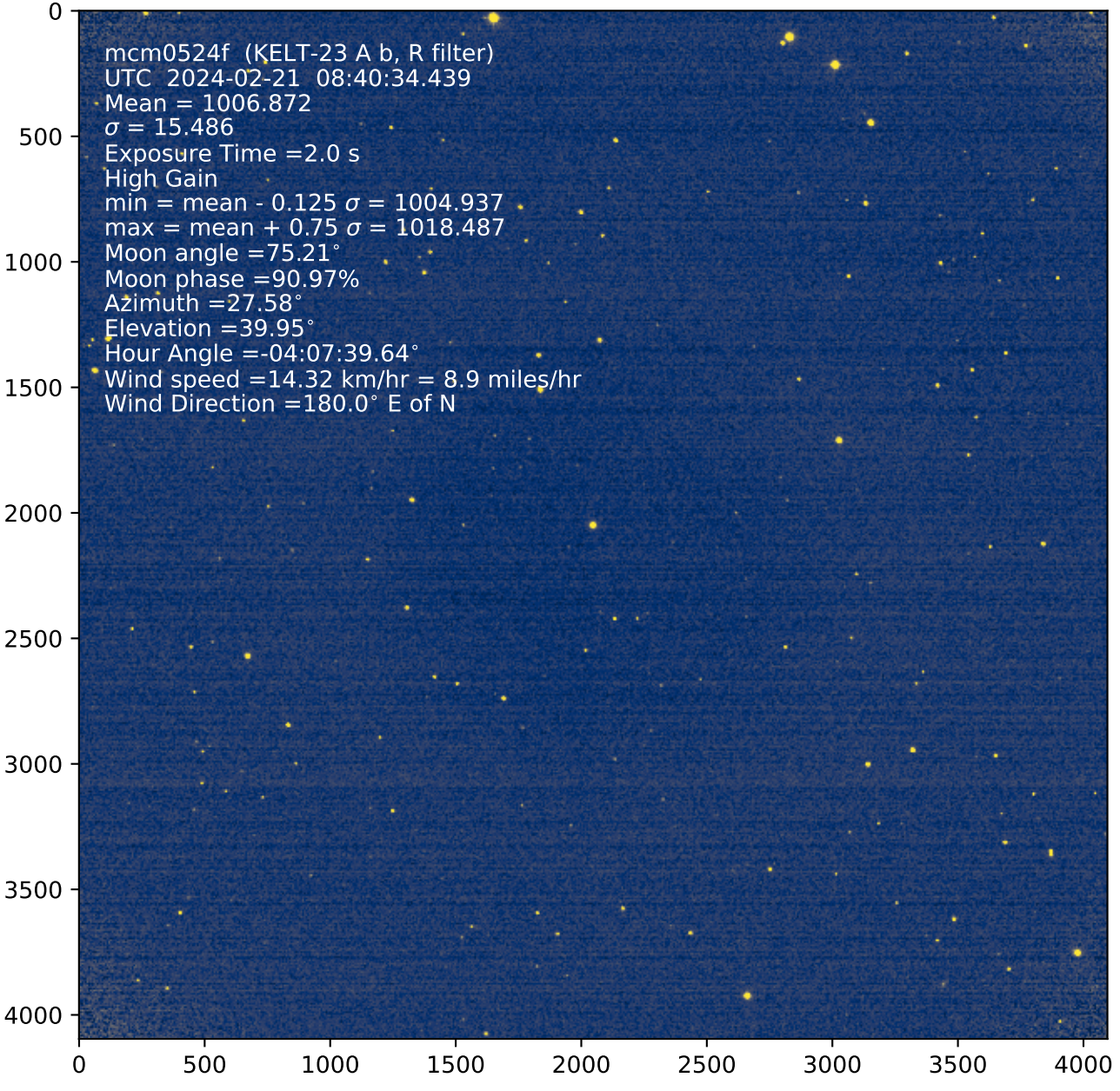
3500
4000


mcm0524f (KELT-23 A b, R filter)
UTC 2024-02-21 08:40:34.439
Mean = 1006.872
σ = 15.486
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1004.937
max = mean + 0.75 σ = 1018.487
Moon angle =75.21°
Moon phase =90.97%
Azimuth =27.58°
Elevation =39.95°
Hour Angle =-04:07:39.64°
Wind speed =14.32 km/hr = 8.9 miles/hr
Wind Direction =180.0° E of N
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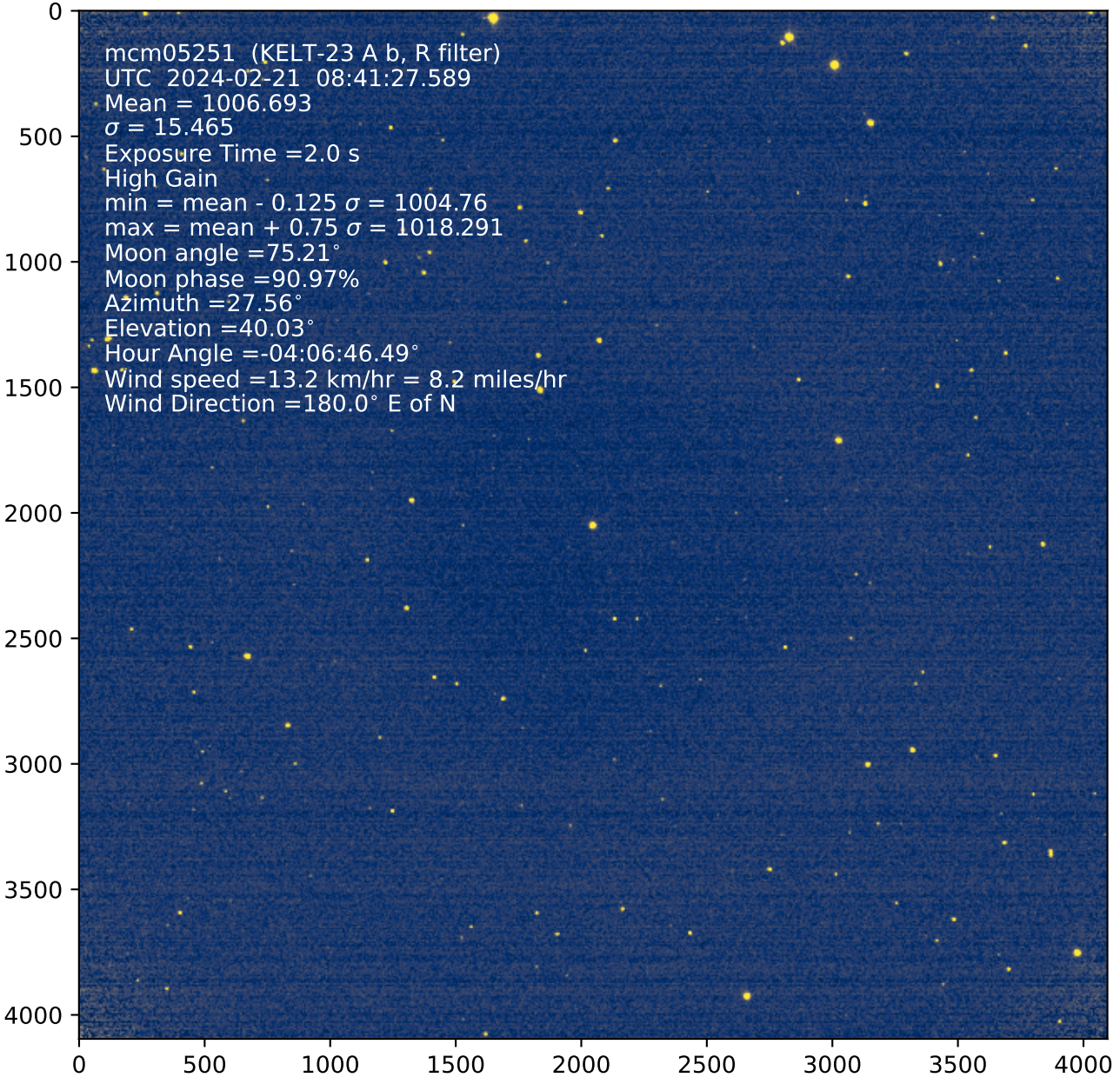
mcm05251 (KELT-23 A b, R filter)
UTC 2024-02-21 08:41:27.589
Mean = 1006.693
σ = 15.465
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1004.76
max = mean + 0.75 σ = 1018.291
Moon angle =75.21°
Moon phase =90.97%
Azimuth =27.56°
Elevation =40.03°
Hour Angle =-04:06:46.49°
Wind speed =13.2 km/hr = 8.2 miles/hr
Wind Direction =180.0° E of N
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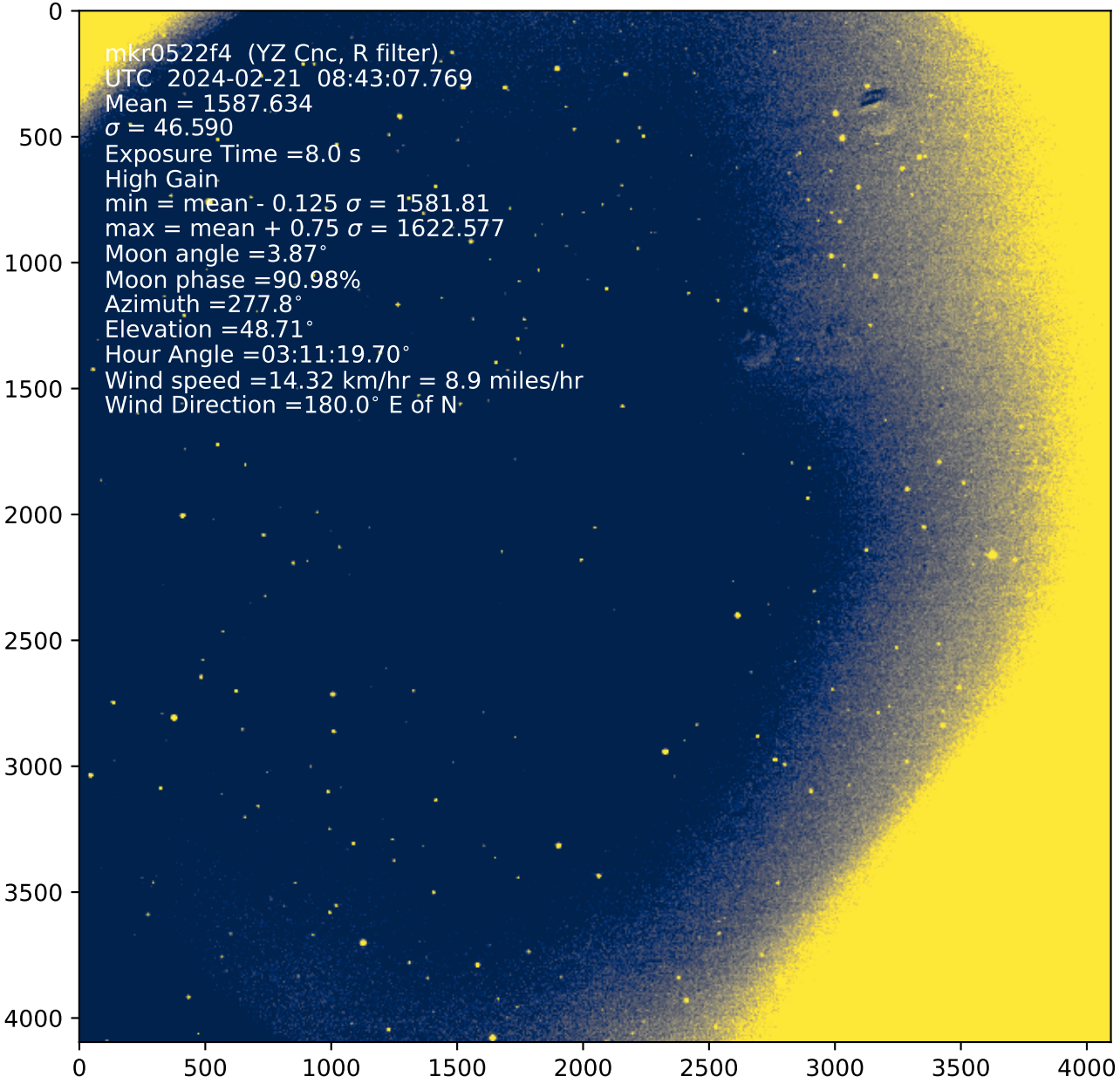
mkr0522f4 (YZ Cnc, R filter)
UTC 2024-02-21 08:43:07.769
Mean = 1587.634
σ = 46.590
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1581.81
max = mean + 0.75 σ = 1622.577
Moon angle =3.87°
Moon phase =90.98%
Azimuth =277.8°
Elevation =48.71°
Hour Angle =03:11:19.70°
Wind speed =14.32 km/hr = 8.9 miles/hr
Wind Direction =180.0° E of N
0
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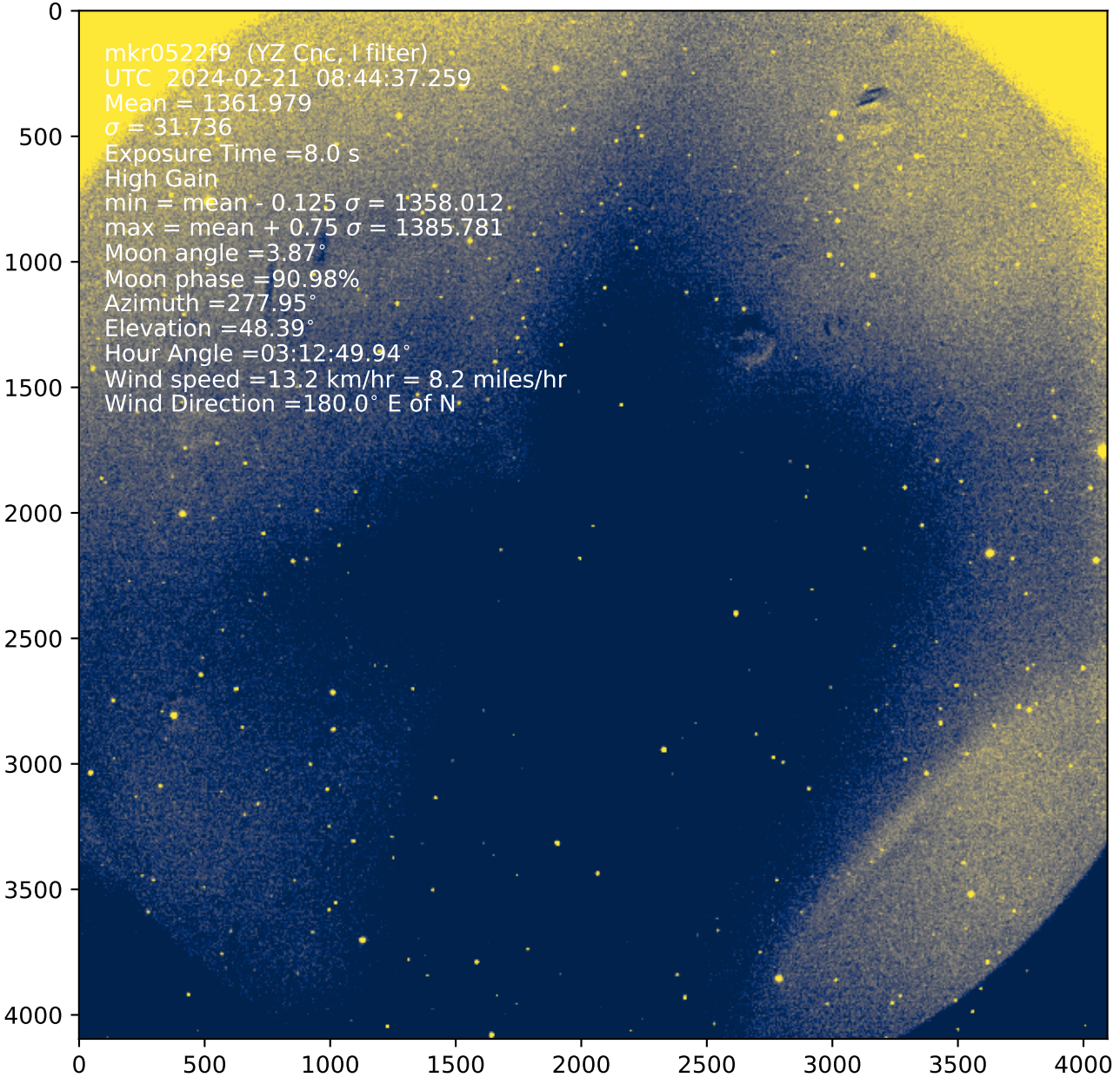
mkr0522f9 (YZ Cnc, I filter)
UTC 2024-02-21 08:44:37.259
Mean = 1361.979
σ = 31.736
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1358.012
max = mean + 0.75 σ = 1385.781
Moon angle =3.87°
Moon phase =90.98%
Azimuth =277.95°
Elevation =48.39°
Hour Angle =03:12:49.94°
Wind speed =13.2 km/hr = 8.2 miles/hr
Wind Direction =180.0° E of N
0
500
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3500
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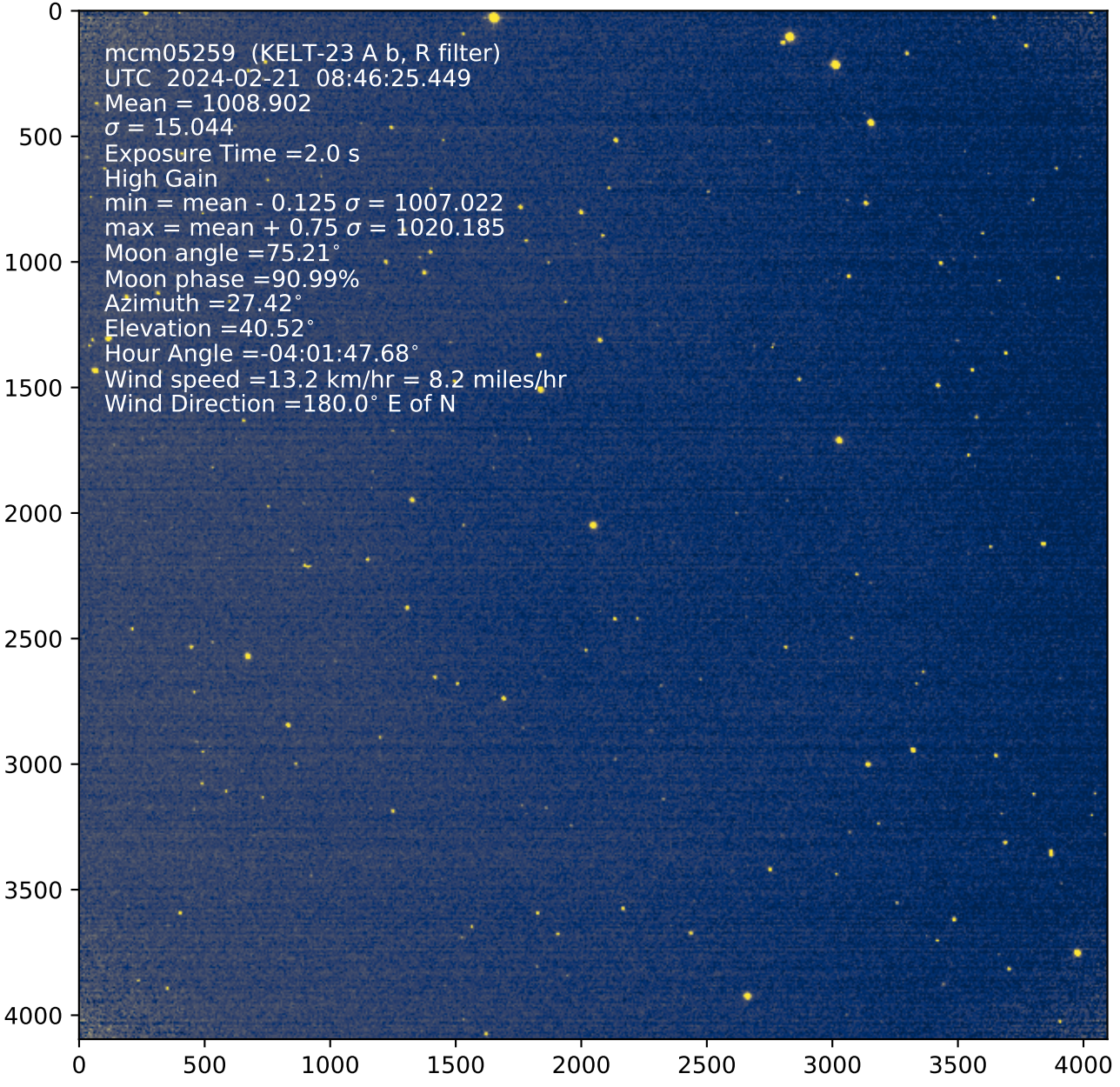
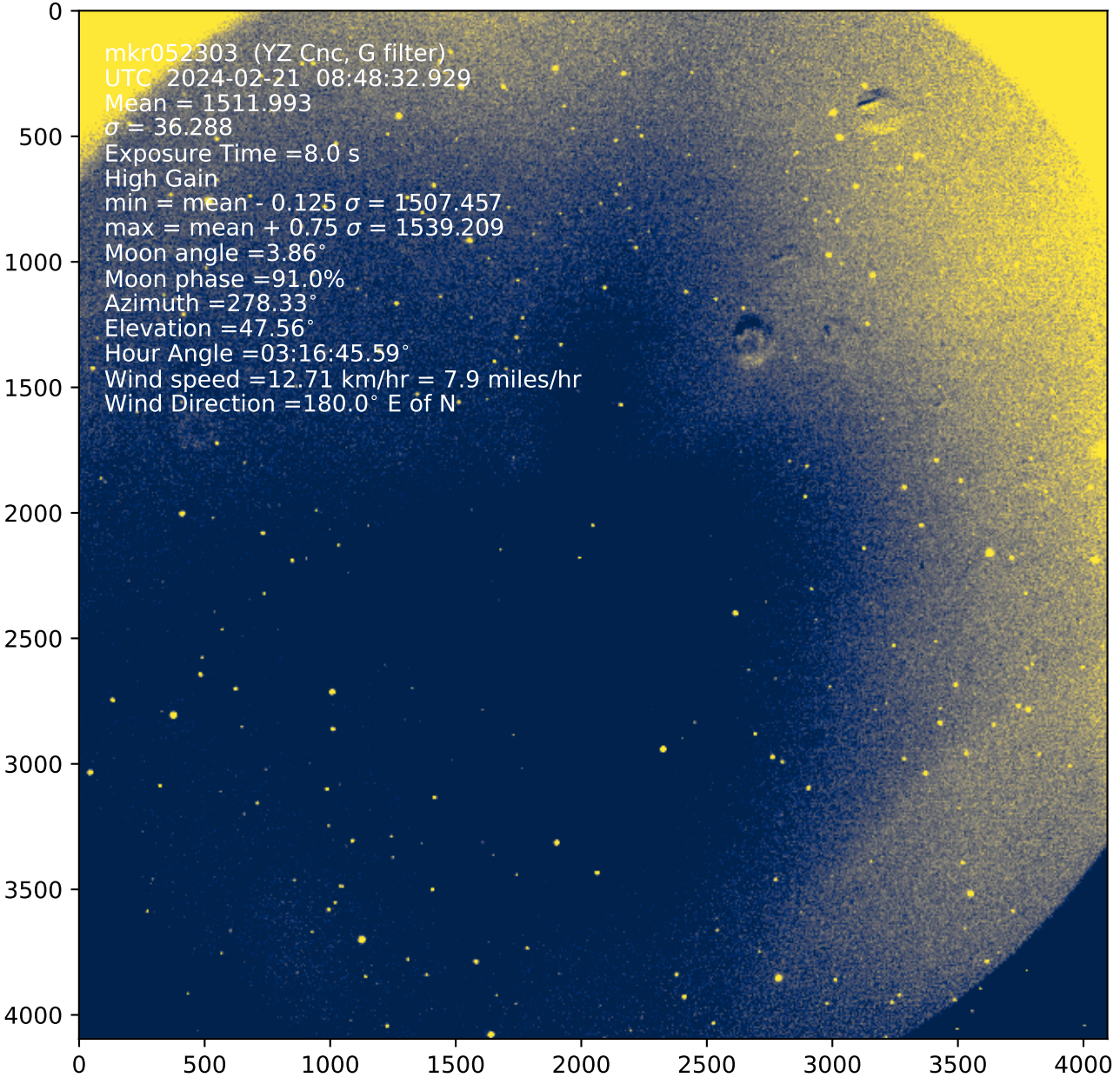
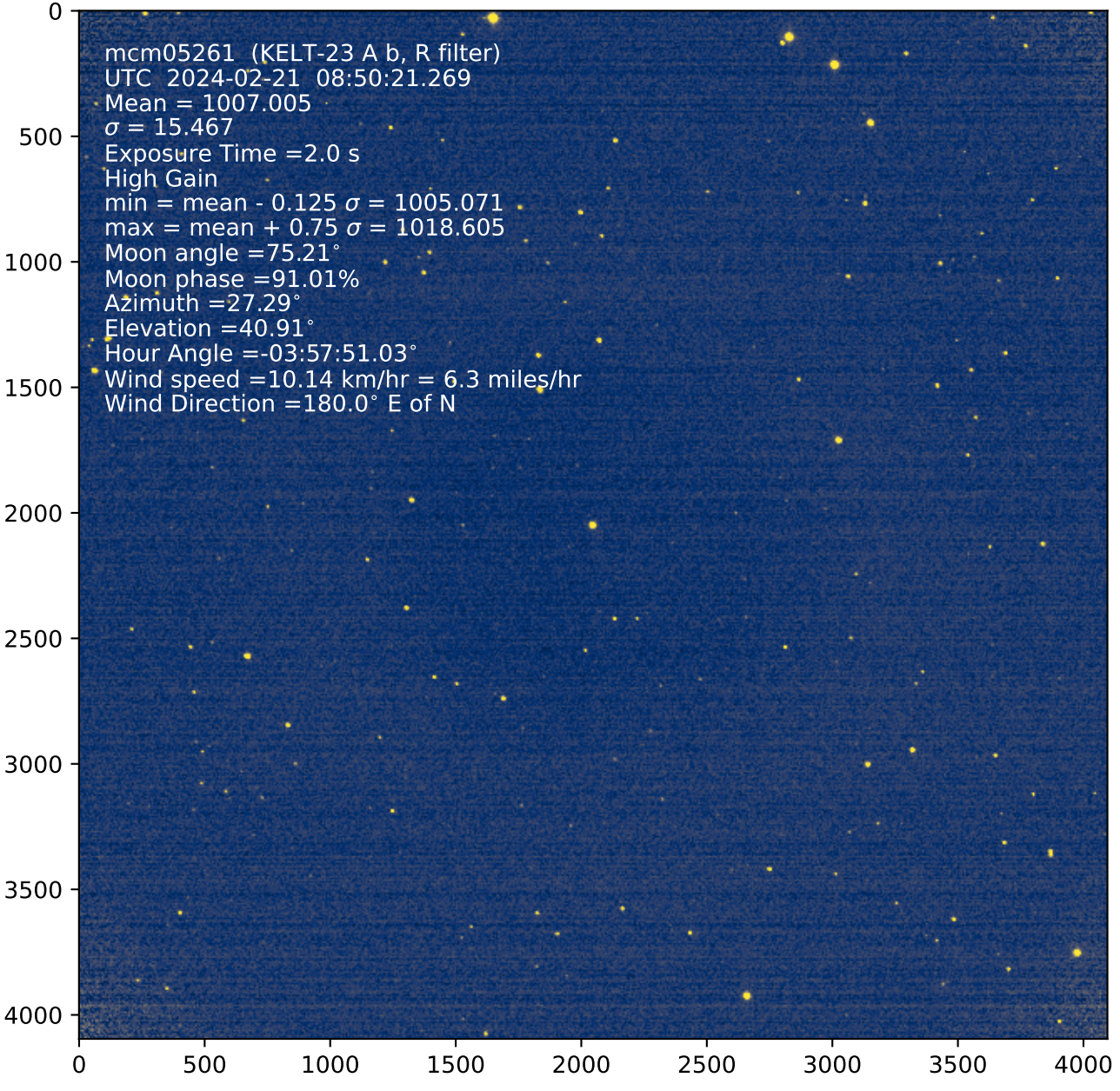
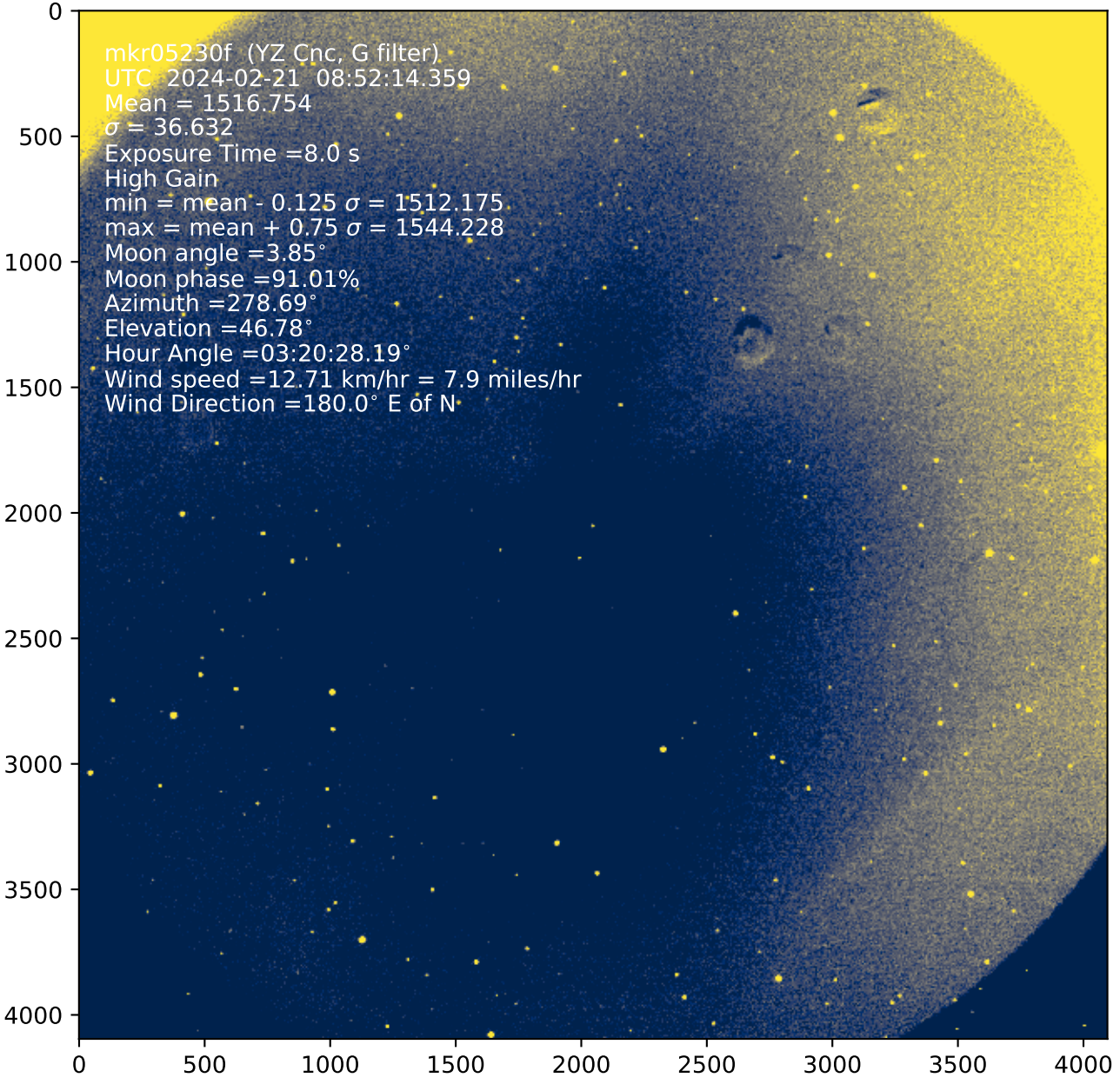

mcm05259 (KELT-23 A b, R filter)
UTC 2024-02-21 08:46:25.449
Mean = 1008.902
σ = 15.044
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1007.022
max = mean + 0.75 σ = 1020.185
Moon angle =75.21°
Moon phase =90.99%
Azimuth =27.42°
Elevation =40.52°
Hour Angle =-04:01:47.68°
Wind speed =13.2 km/hr = 8.2 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr052303 (YZ Cnc, G filter)
UTC 2024-02-21 08:48:32.929
Mean = 1511.993
σ = 36.288
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1507.457
max = mean + 0.75 σ = 1539.209
Moon angle =3.86˚
Moon phase =91.0%
Azimuth =278.33˚
Elevation =47.56˚
Hour Angle =03:16:45.59˚
Wind speed =12.71 km/hr = 7.9 miles/hr
Wind Direction =180.0˚ E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mcm05261 (KELT-23 A b, R filter)
UTC 2024-02-21 08:50:21.269
Mean = 1007.005
σ = 15.467
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1005.071
max = mean + 0.75 σ = 1018.605
Moon angle =75.21°
Moon phase =91.01%
Azimuth =27.29°
Elevation =40.91°
Hour Angle =-03:57:51.03°
Wind speed =10.14 km/hr = 6.3 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr05230f (YZ Cnc, G filter)
UTC 2024-02-21 08:52:14.359
Mean = 1516.754
σ = 36.632
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1512.175
max = mean + 0.75 σ = 1544.228
Moon angle =3.85°
Moon phase =91.01%
Azimuth =278.69°
Elevation =46.78°
Hour Angle =03:20:28.19°
Wind speed =12.71 km/hr = 7.9 miles/hr
Wind Direction =180.0° E of N
0
500
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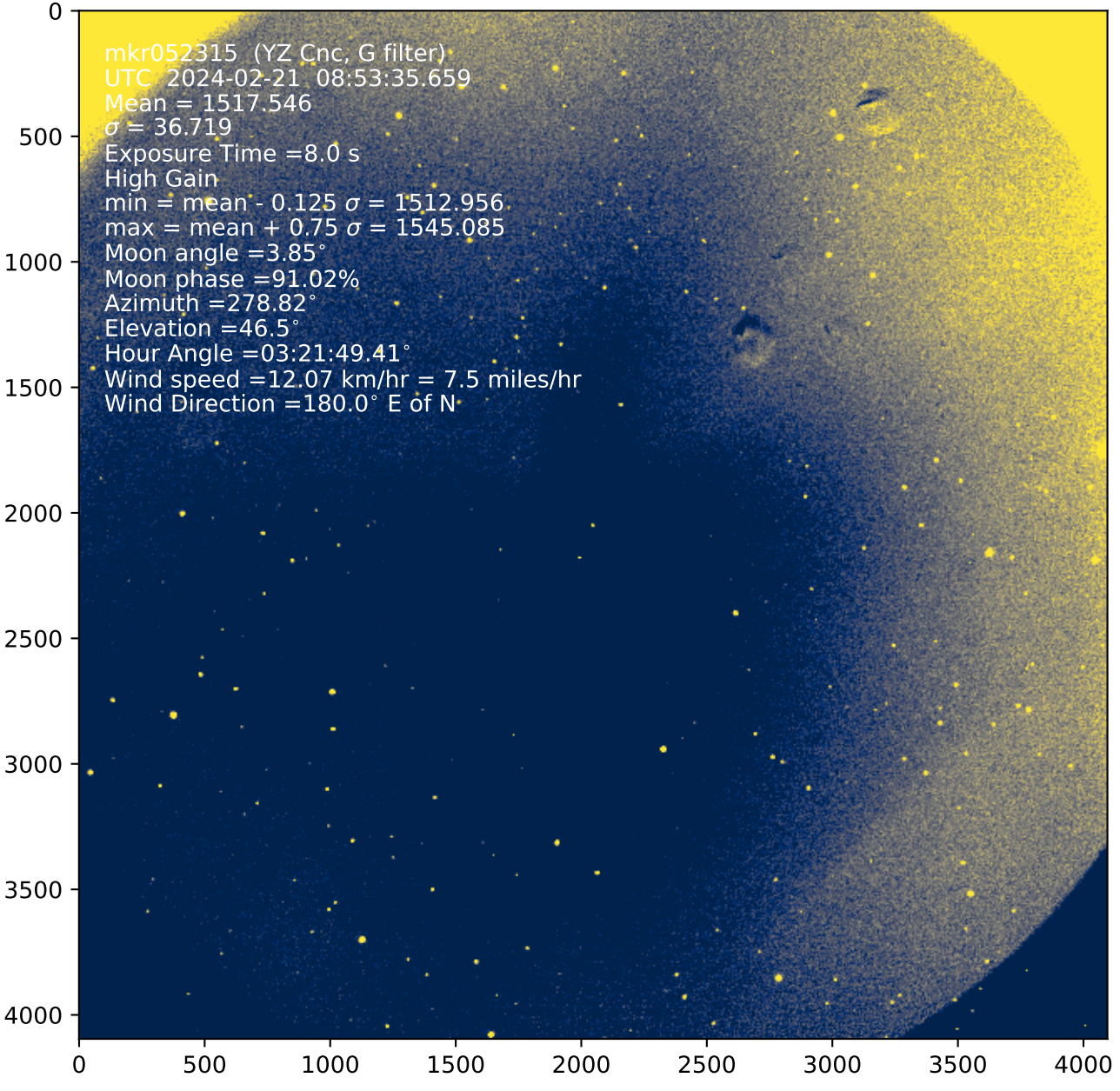
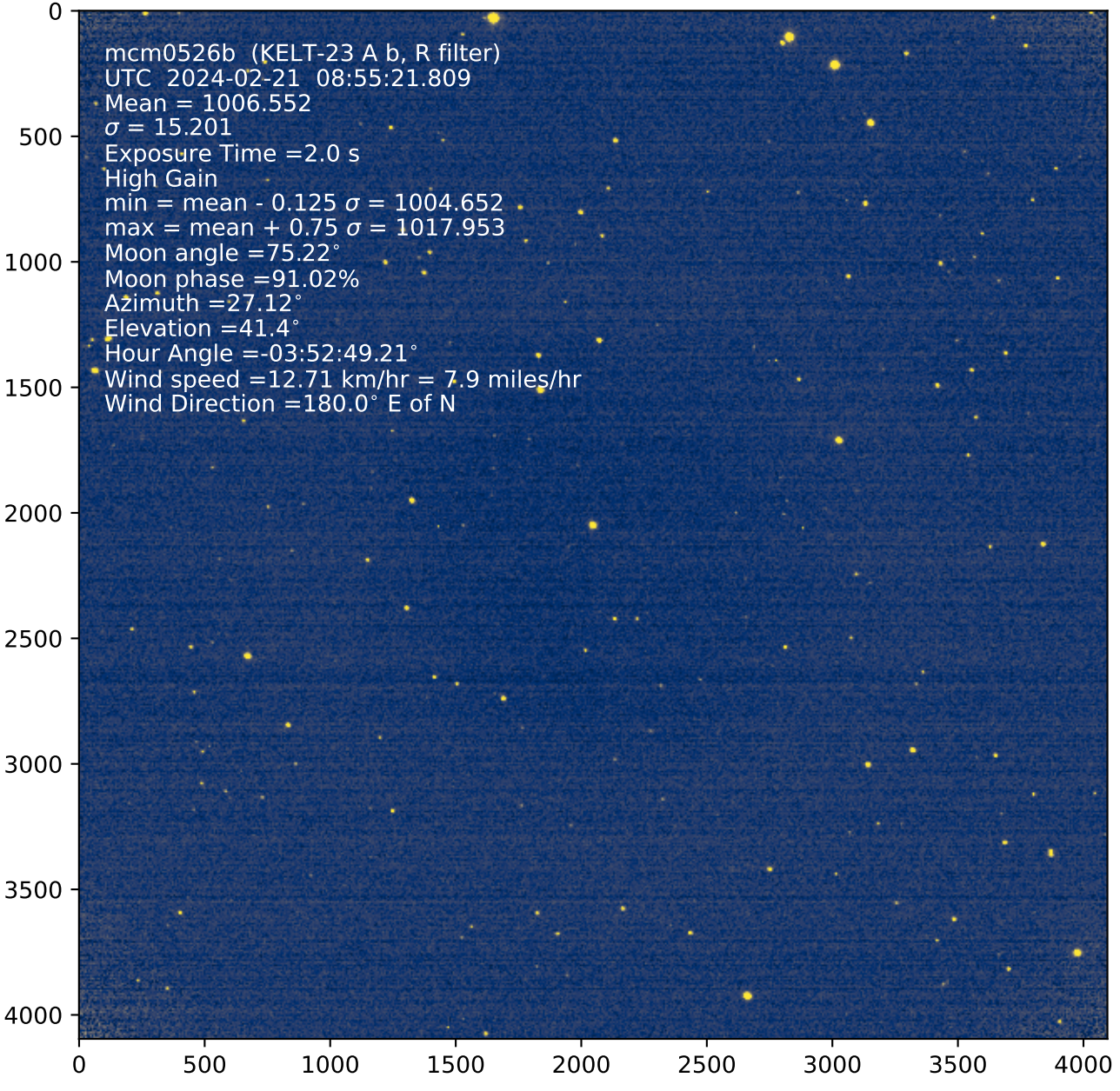
2500
3000
3500
4000


mkr052315 (YZ Cnc, G filter)
UTC 2024-02-21 08:53:35.659
Mean = 1517.546
σ = 36.719
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1512.956
max = mean + 0.75 σ = 1545.085
Moon angle =3.85°
Moon phase =91.02%
Azimuth =278.82°
Elevation =46.5°
Hour Angle =03:21:49.41°
Wind speed =12.07 km/hr = 7.5 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mcm0526b (KELT-23 A b, R filter)
UTC 2024-02-21 08:55:21.809
Mean = 1006.552
σ = 15.201
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1004.652
max = mean + 0.75 σ = 1017.953
Moon angle =75.22°
Moon phase =91.02%
Azimuth =27.12°
Elevation =41.4°
Hour Angle =-03:52:49.21°
Wind speed =12.71 km/hr = 7.9 miles/hr
Wind Direction =180.0° E of N
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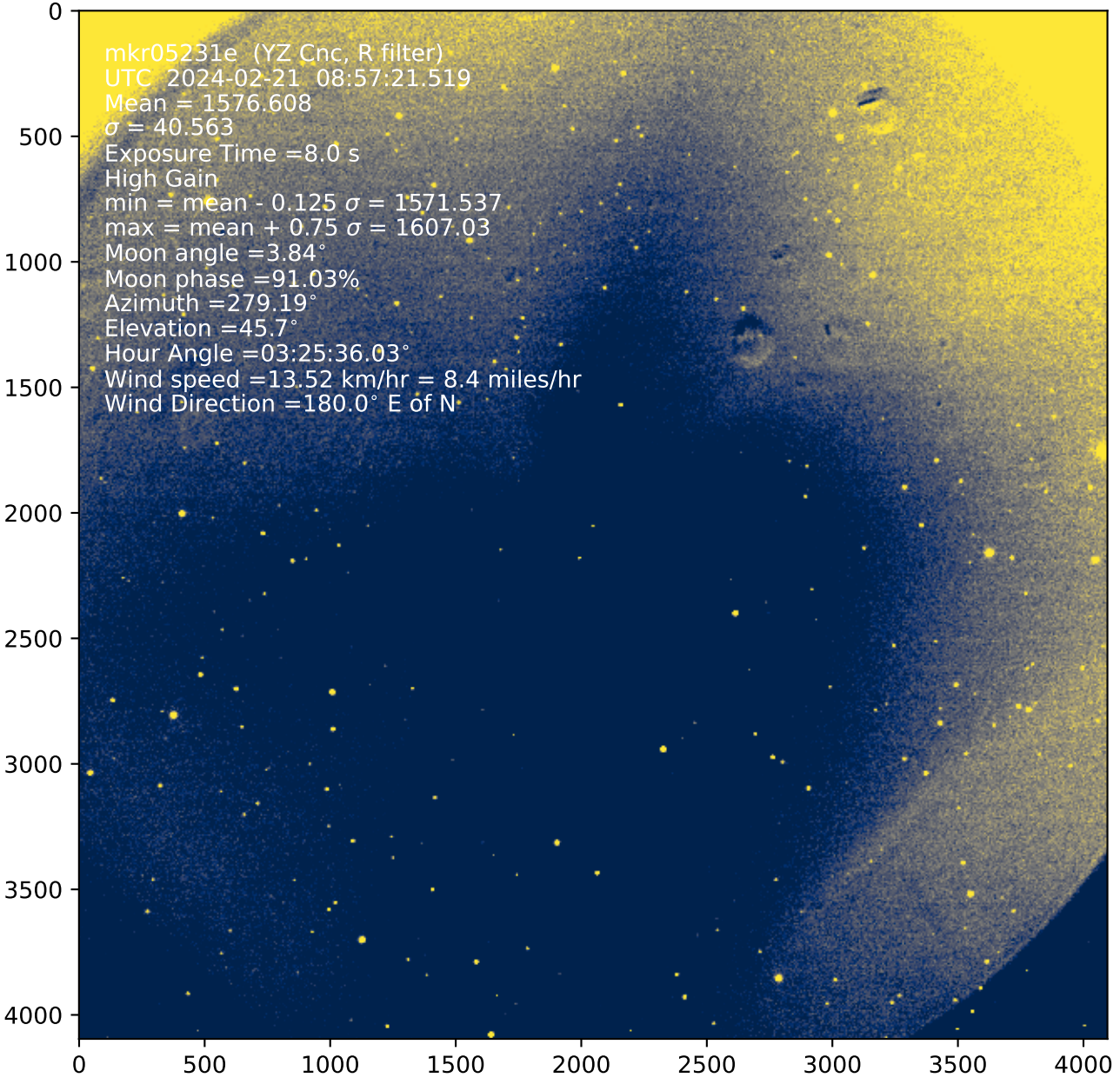
2500
3000
3500
4000


mkr05231e (YZ Cnc, R filter)
UTC 2024-02-21 08:57:21.519
Mean = 1576.608
σ = 40.563
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1571.537
max = mean + 0.75 σ = 1607.03
Moon angle =3.84°
Moon phase =91.03%
Azimuth =279.19°
Elevation =45.7°
Hour Angle =03:25:36.03°
Wind speed =13.52 km/hr = 8.4 miles/hr
Wind Direction =180.0° E of N
0
500
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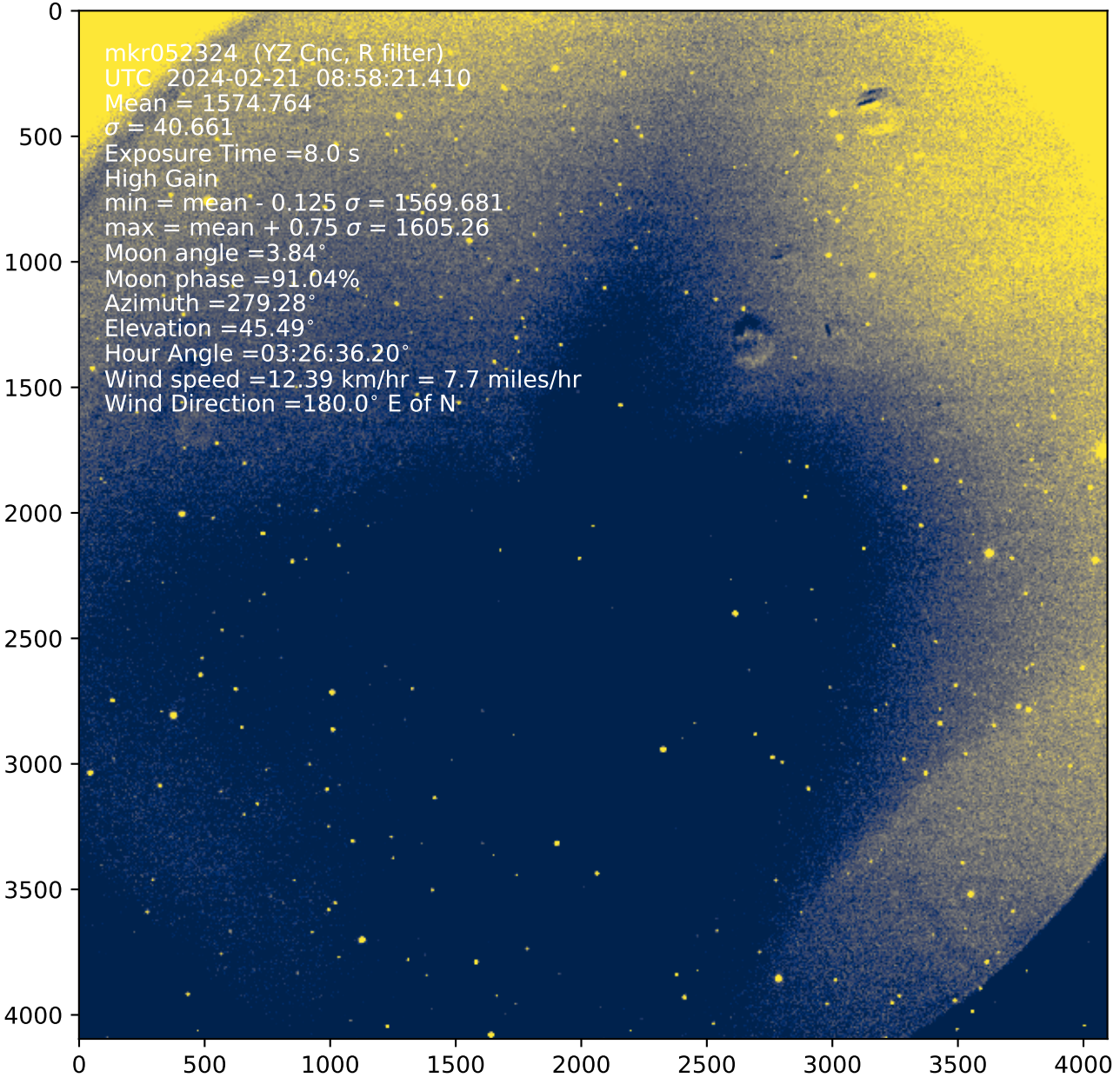
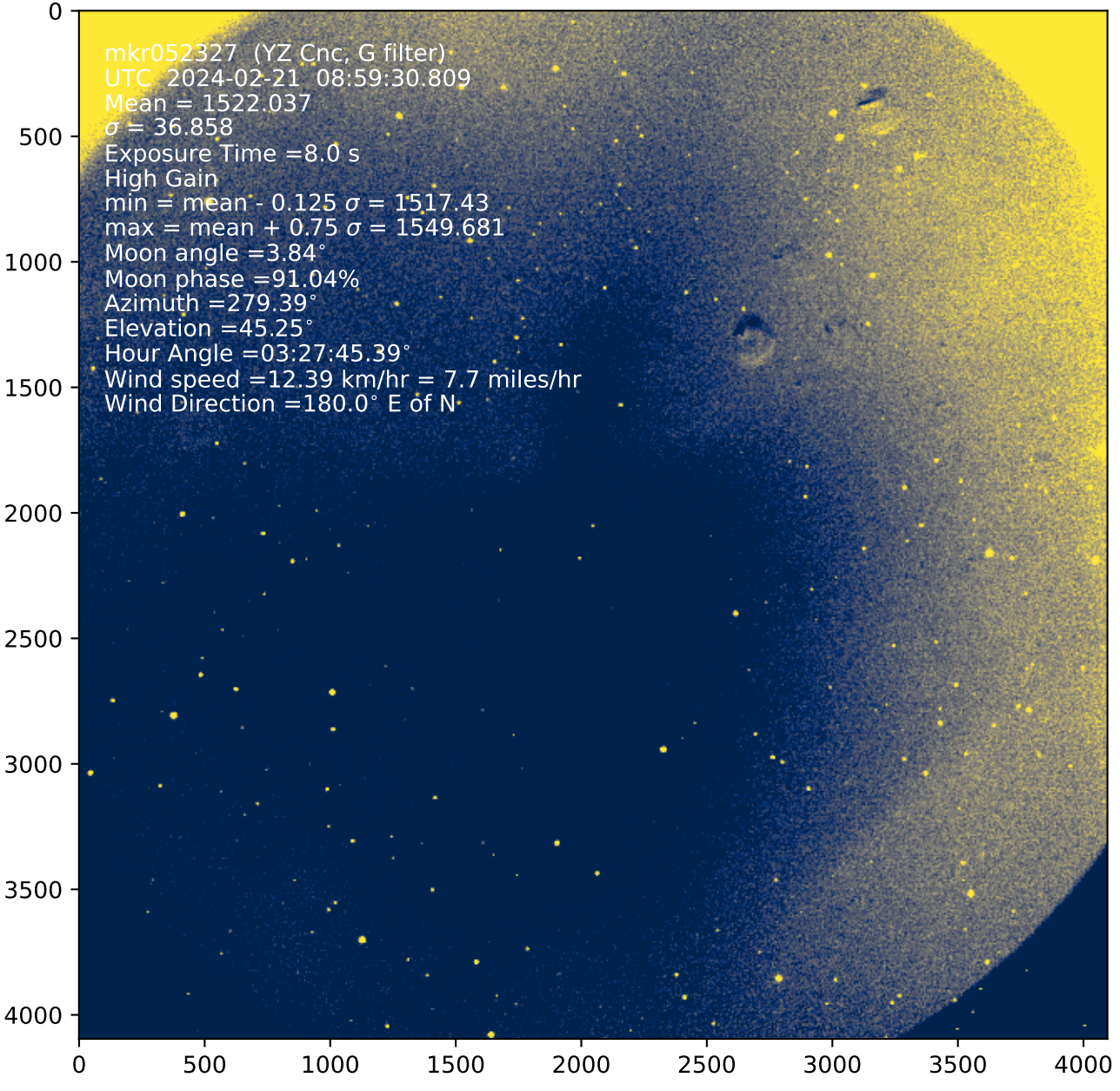
2000
2500
3000
3500
4000


mkr052324 (YZ Cnc, R filter)
UTC 2024-02-21 08:58:21.410
Mean = 1574.764
σ = 40.661
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1569.681
max = mean + 0.75 σ = 1605.26
Moon angle =3.84°
Moon phase =91.04%
Azimuth =279.28°
Elevation =45.49°
Hour Angle =03:26:36.20°
Wind speed =12.39 km/hr = 7.7 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr052327 (YZ Cnc, G filter)
UTC 2024-02-21 08:59:30.809
Mean = 1522.037
σ = 36.858
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1517.43
max = mean + 0.75 σ = 1549.681
Moon angle =3.84°
Moon phase =91.04%
Azimuth =279.39°
Elevation =45.25°
Hour Angle =03:27:45.39°
Wind speed =12.39 km/hr = 7.7 miles/hr
Wind Direction =180.0° E of N
0
500
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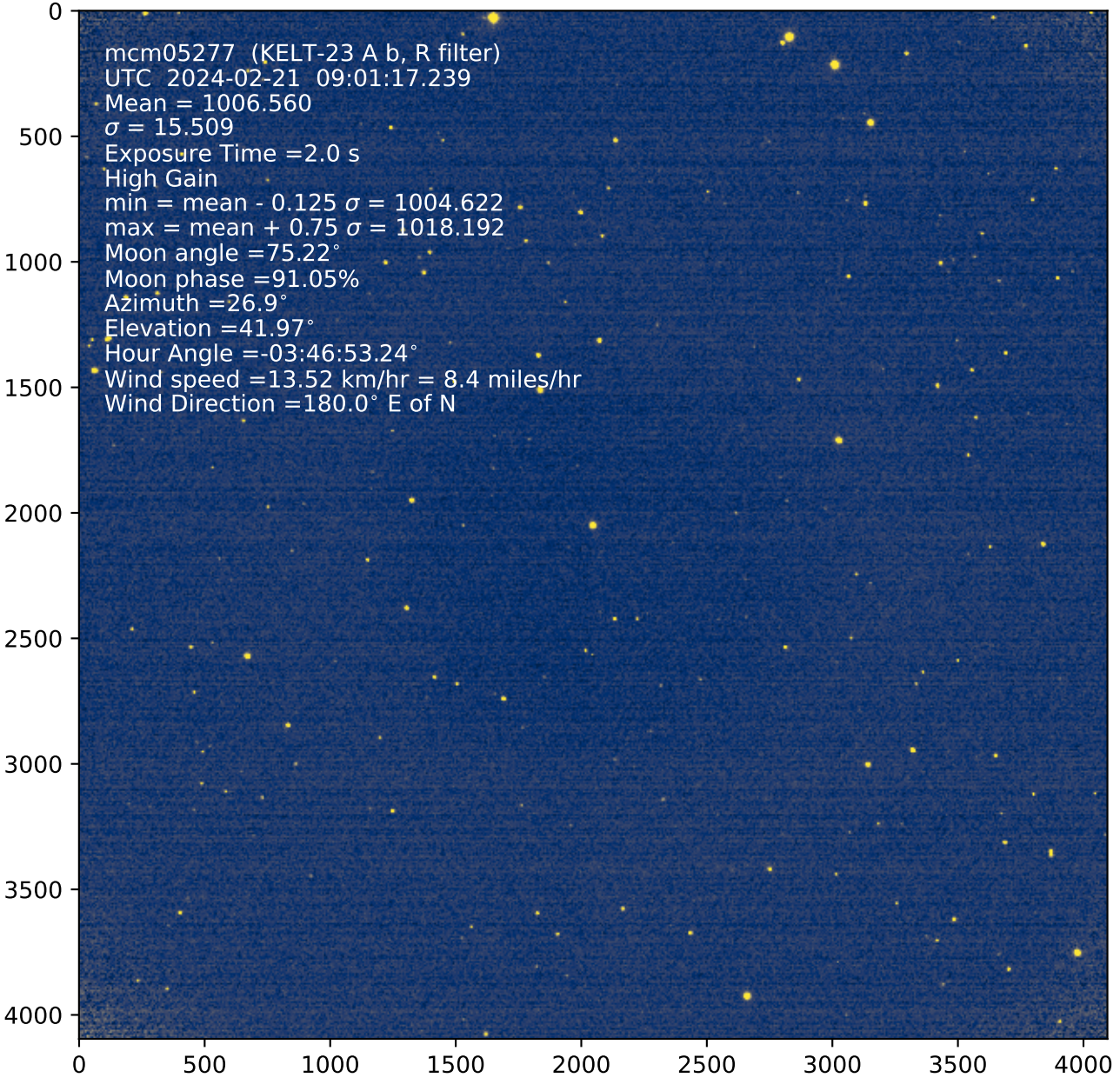
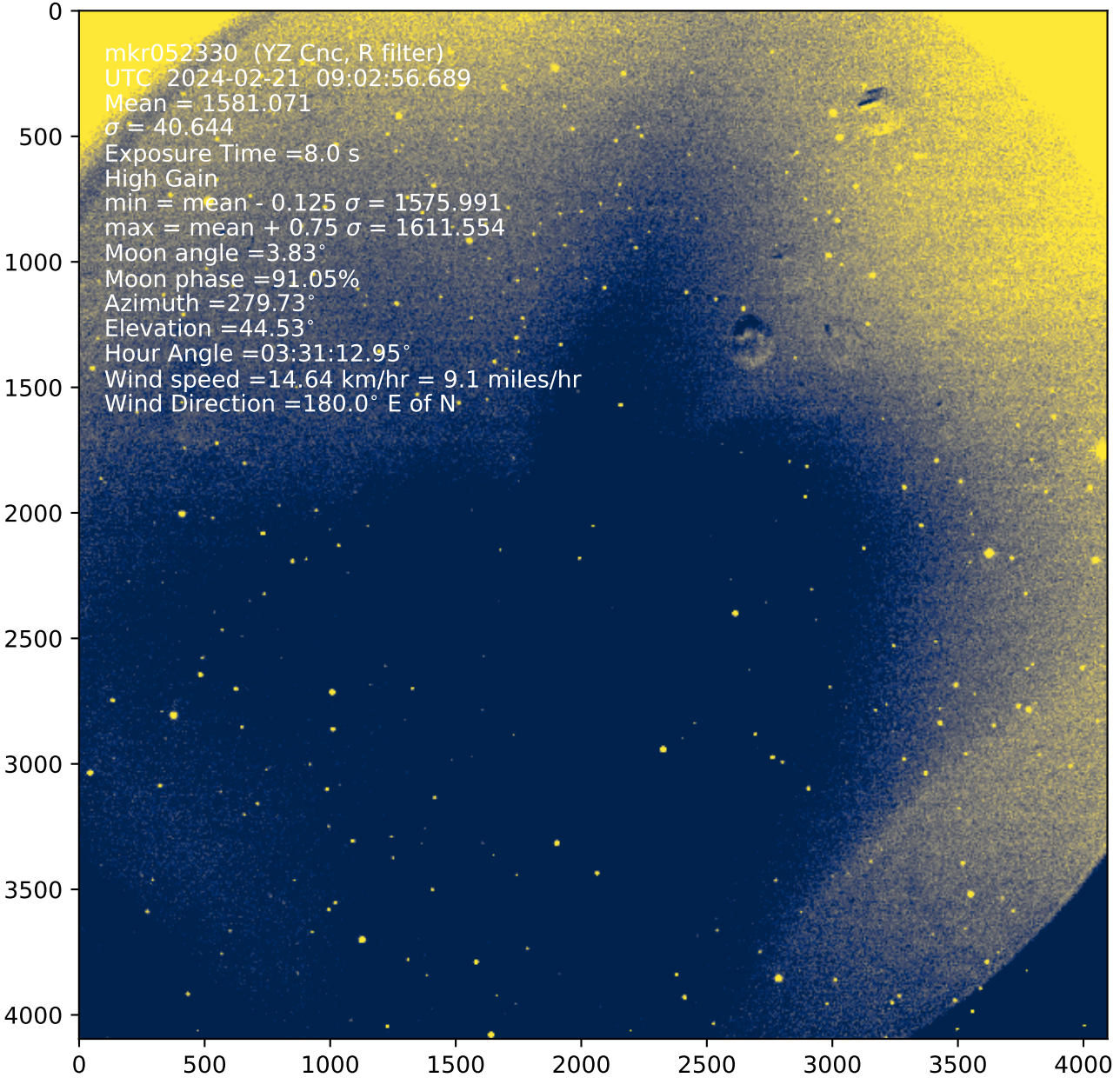
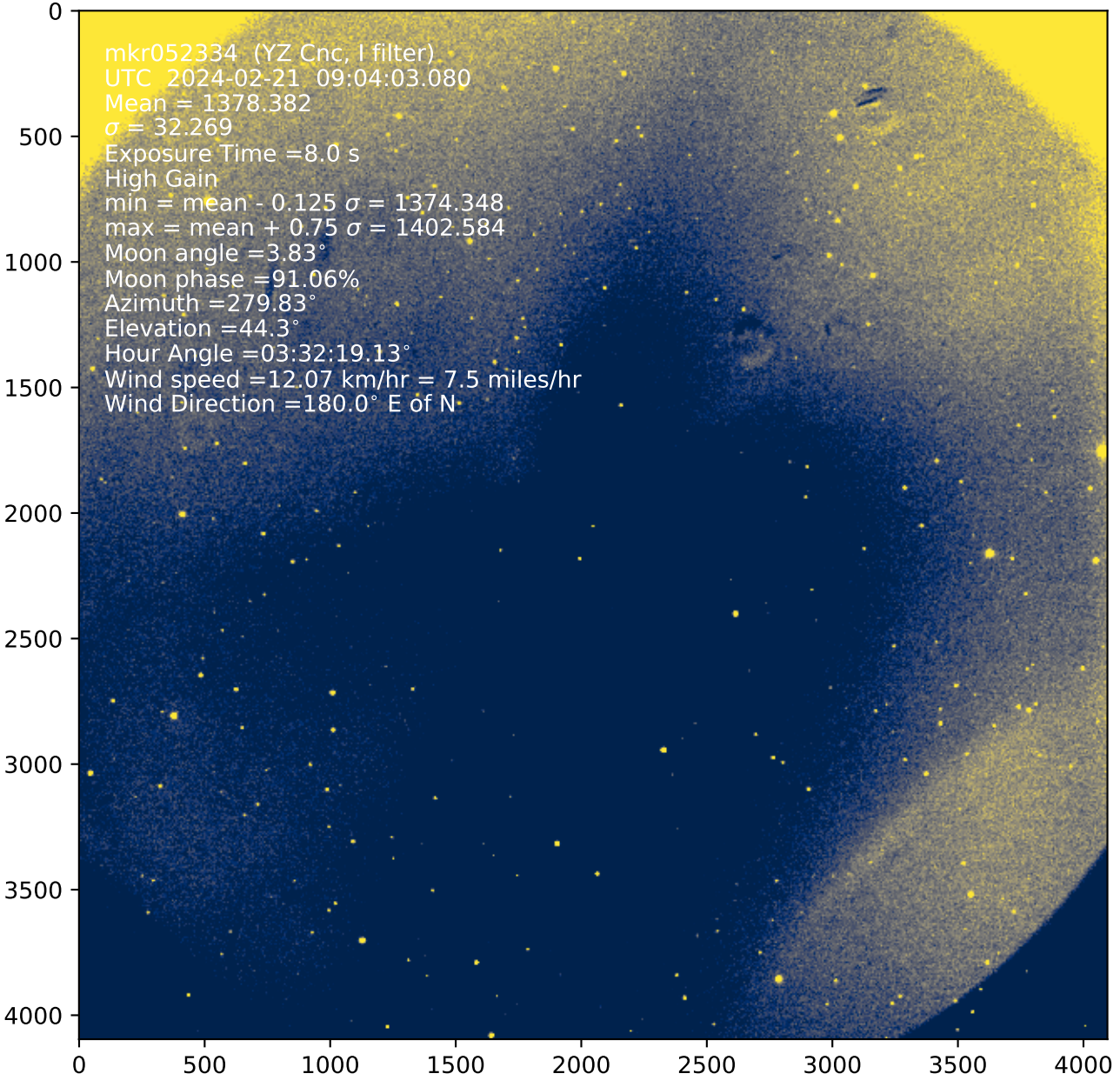
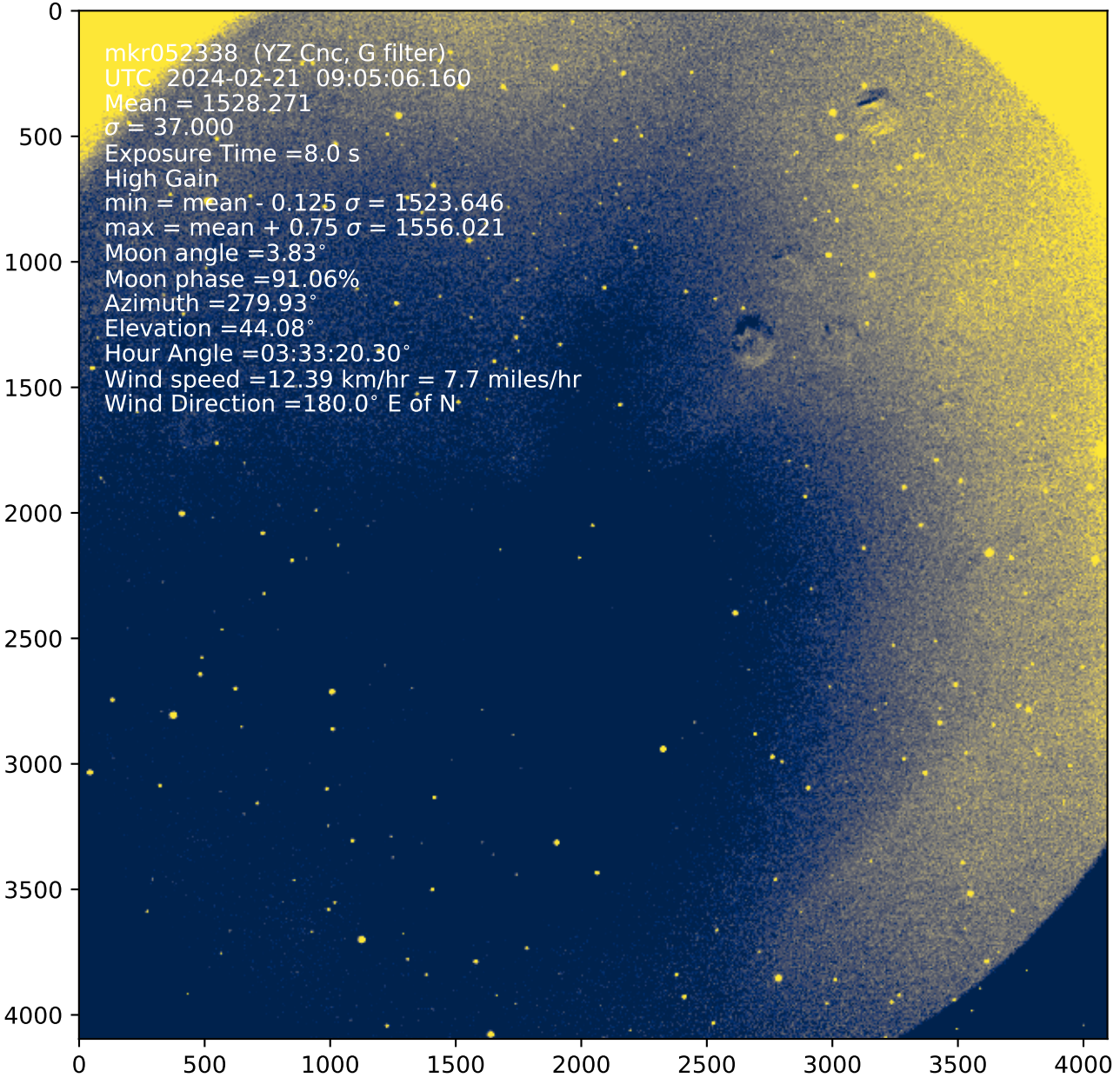
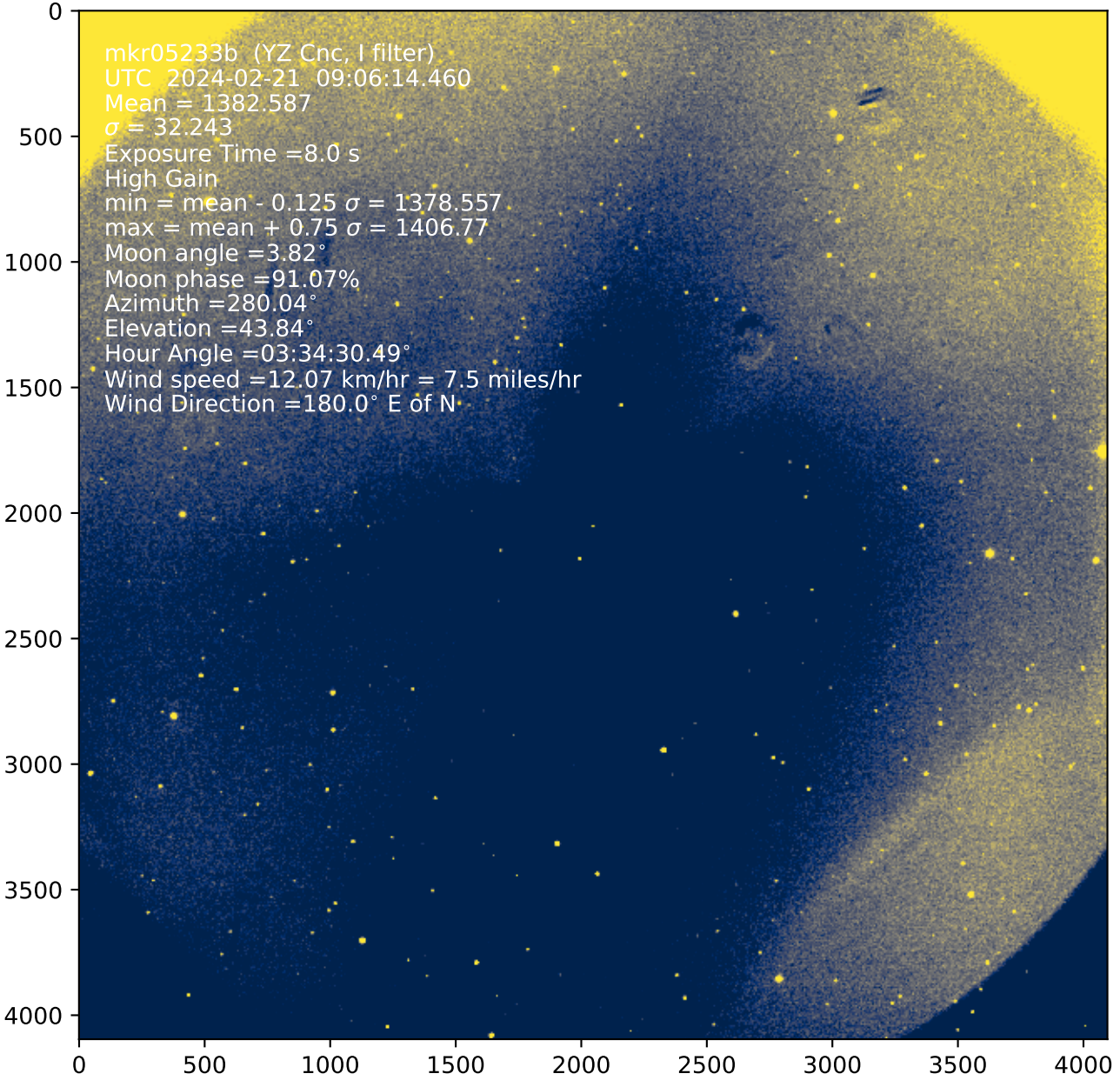
2500
3000
3500
4000

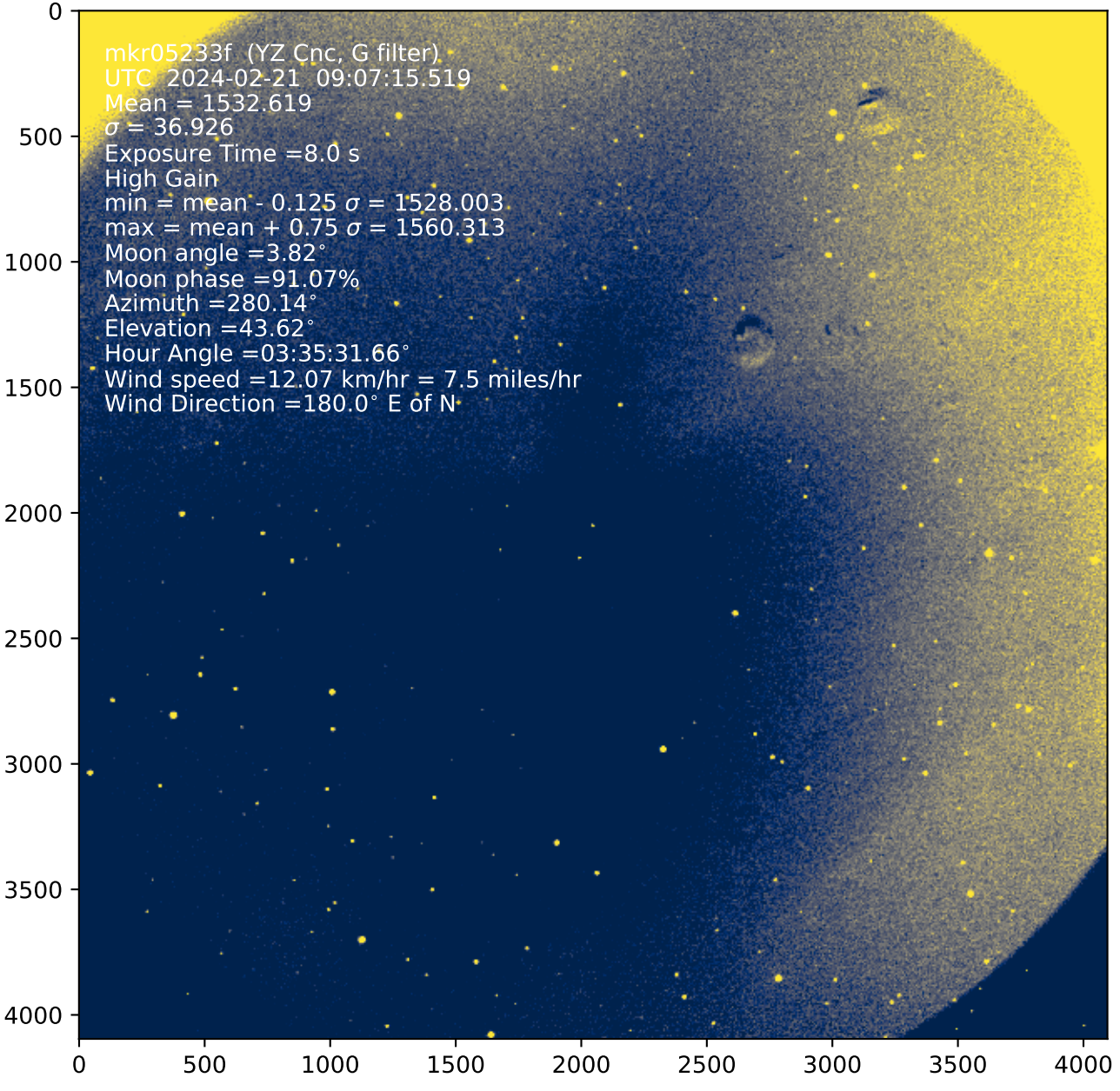

mcm05277 (KELT-23 A b, R filter)
UTC 2024-02-21 09:01:17.239
Mean = 1006.560
σ = 15.509
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1004.622
max = mean + 0.75 σ = 1018.192
Moon angle =75.22°
Moon phase =91.05%
Azimuth =26.9°
Elevation =41.97°
Hour Angle =-03:46:53.24°
Wind speed =13.52 km/hr = 8.4 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000

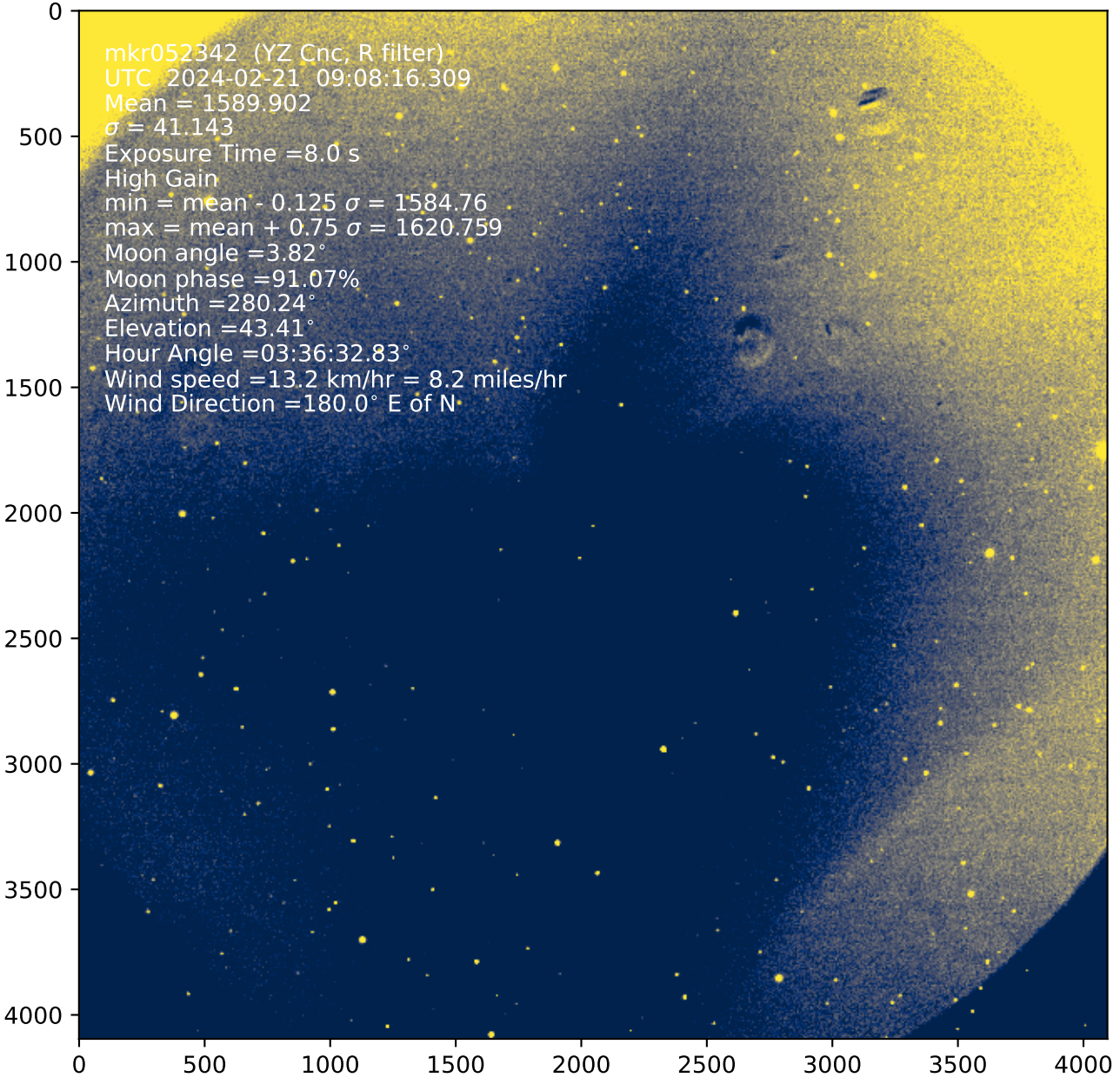

mkr052330 (YZ Cnc, R filter)
UTC 2024-02-21 09:02:56.689
Mean = 1581.071
σ = 40.644
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1575.991
max = mean + 0.75 σ = 1611.554
Moon angle =3.83°
Moon phase =91.05%
Azimuth =279.73°
Elevation =44.53°
Hour Angle =03:31:12.95°
Wind speed =14.64 km/hr = 9.1 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000

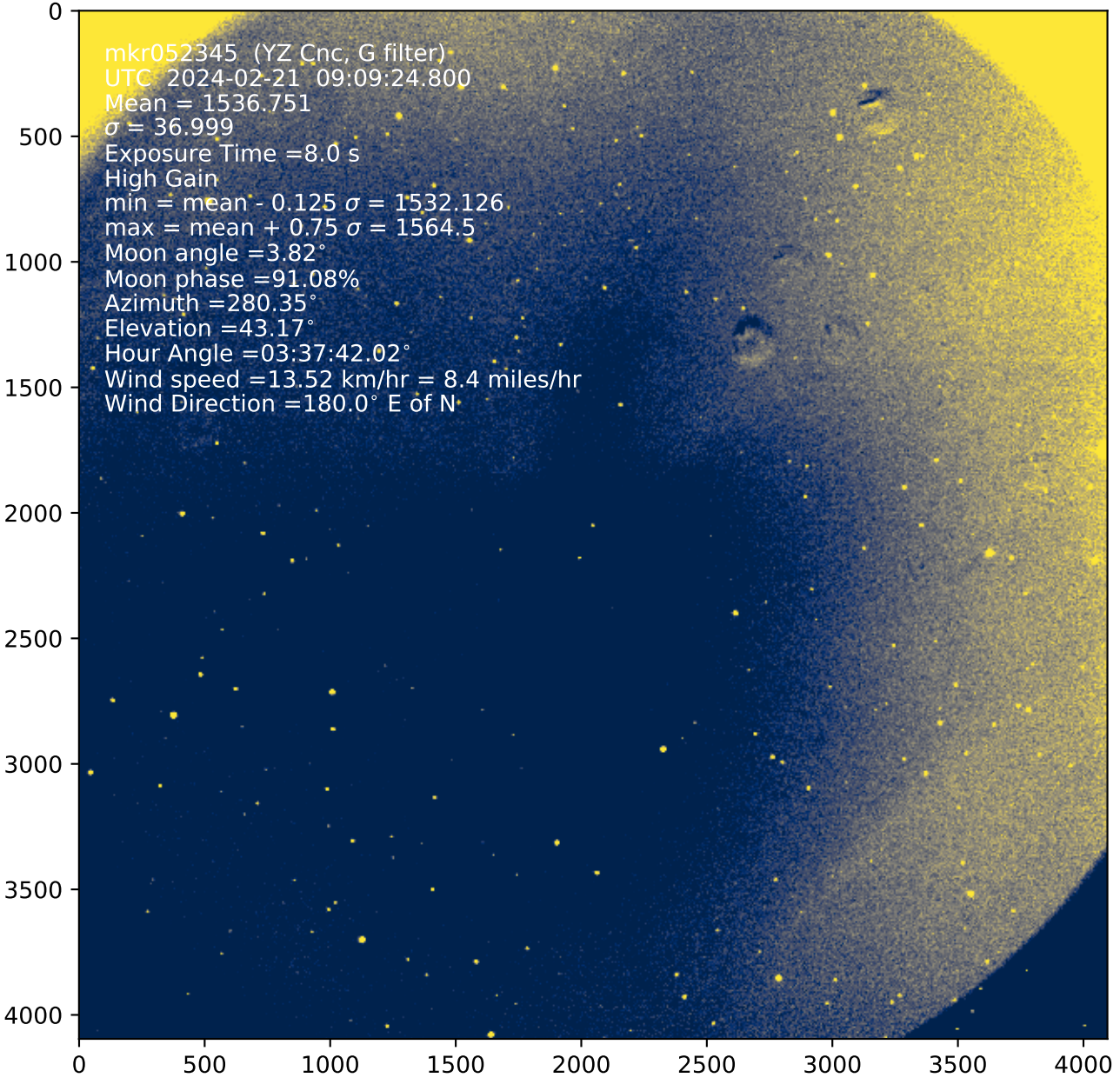

mkr052334 (YZ Cnc, I filter)
UTC 2024-02-21 09:04:03.080
Mean = 1378.382
σ = 32.269
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1374.348
max = mean + 0.75 σ = 1402.584
Moon angle =3.83°
Moon phase =91.06%
Azimuth =279.83°
Elevation =44.3°
Hour Angle =03:32:19.13°
Wind speed =12.07 km/hr = 7.5 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000

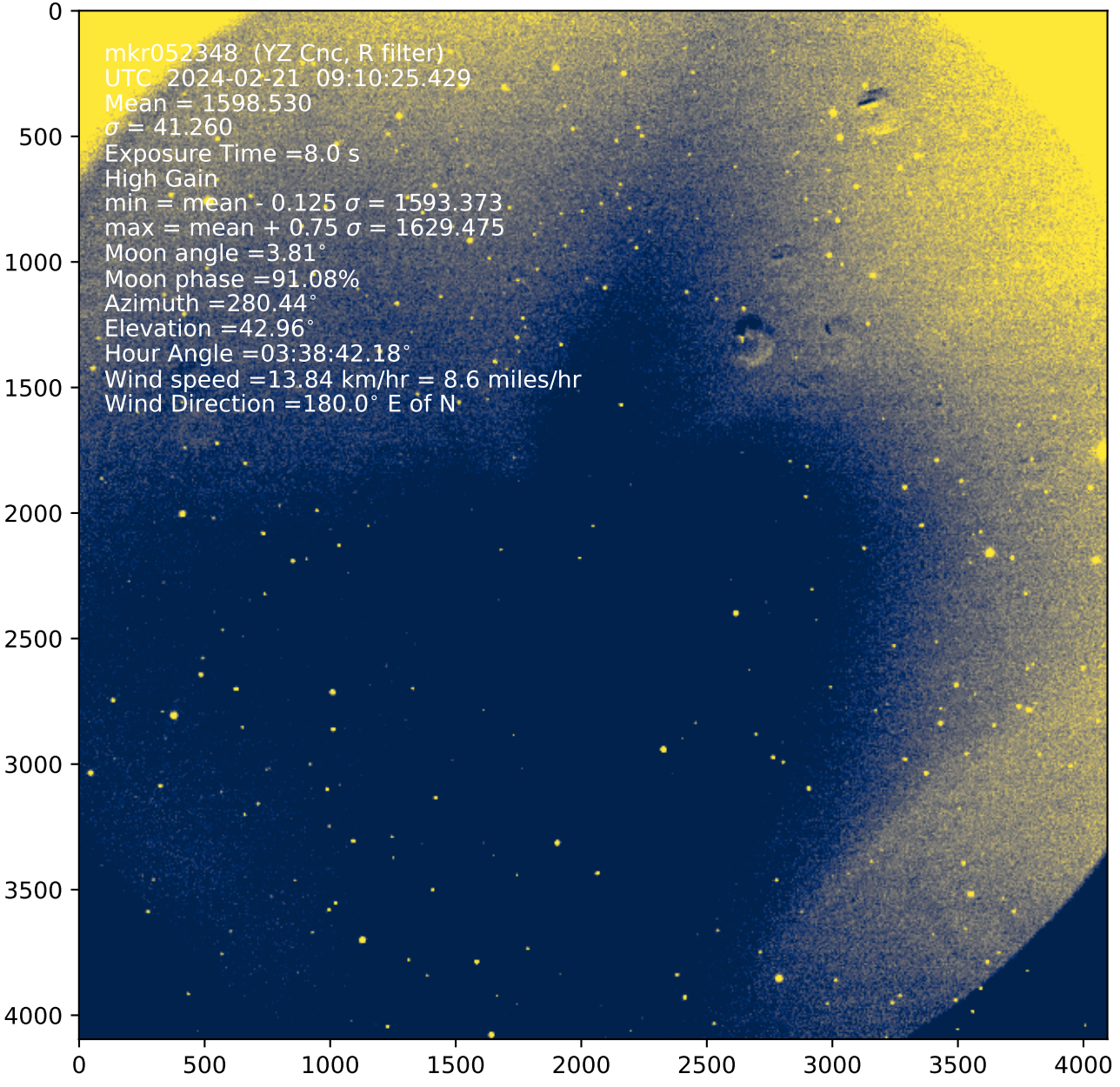

mkr052338 (YZ Cnc, G filter)
UTC 2024-02-21 09:05:06.160
Mean = 1528.271
σ = 37.000
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1523.646
max = mean + 0.75 σ = 1556.021
Moon angle =3.83°
Moon phase =91.06%
Azimuth =279.93°
Elevation =44.08°
Hour Angle =03:33:20.30°
Wind speed =12.39 km/hr = 7.7 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr05233b (YZ Cnc, I filter)
UTC 2024-02-21 09:06:14.460
Mean = 1382.587
σ = 32.243
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1378.557
max = mean + 0.75 σ = 1406.77
Moon angle =3.82°
Moon phase =91.07%
Azimuth =280.04°
Elevation =43.84°
Hour Angle =03:34:30.49°
Wind speed =12.07 km/hr = 7.5 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr05233f (YZ Cnc, G filter)
UTC 2024-02-21 09:07:15.519
Mean = 1532.619
σ = 36.926
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1528.003
max = mean + 0.75 σ = 1560.313
Moon angle =3.82°
Moon phase =91.07%
Azimuth =280.14°
Elevation =43.62°
Hour Angle =03:35:31.66°
Wind speed =12.07 km/hr = 7.5 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr052342 (YZ Cnc, R filter)
UTC 2024-02-21 09:08:16.309
Mean = 1589.902
σ = 41.143
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1584.76
max = mean + 0.75 σ = 1620.759
Moon angle =3.82°
Moon phase =91.07%
Azimuth =280.24°
Elevation =43.41°
Hour Angle =03:36:32.83°
Wind speed =13.2 km/hr = 8.2 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr052345 (YZ Cnc, G filter)
UTC 2024-02-21 09:09:24.800
Mean = 1536.751
σ = 36.999
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1532.126
max = mean + 0.75 σ = 1564.5
Moon angle =3.82°
Moon phase =91.08%
Azimuth =280.35°
Elevation =43.17°
Hour Angle =03:37:42.02°
Wind speed =13.52 km/hr = 8.4 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr052348 (YZ Cnc, R filter)
UTC 2024-02-21 09:10:25.429
Mean = 1598.530
σ = 41.260
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1593.373
max = mean + 0.75 σ = 1629.475
Moon angle =3.81˚
Moon phase =91.08%
Azimuth =280.44˚
Elevation =42.96˚
Hour Angle =03:38:42.18˚
Wind speed =13.84 km/hr = 8.6 miles/hr
Wind Direction =180.0˚ E of N
0
500
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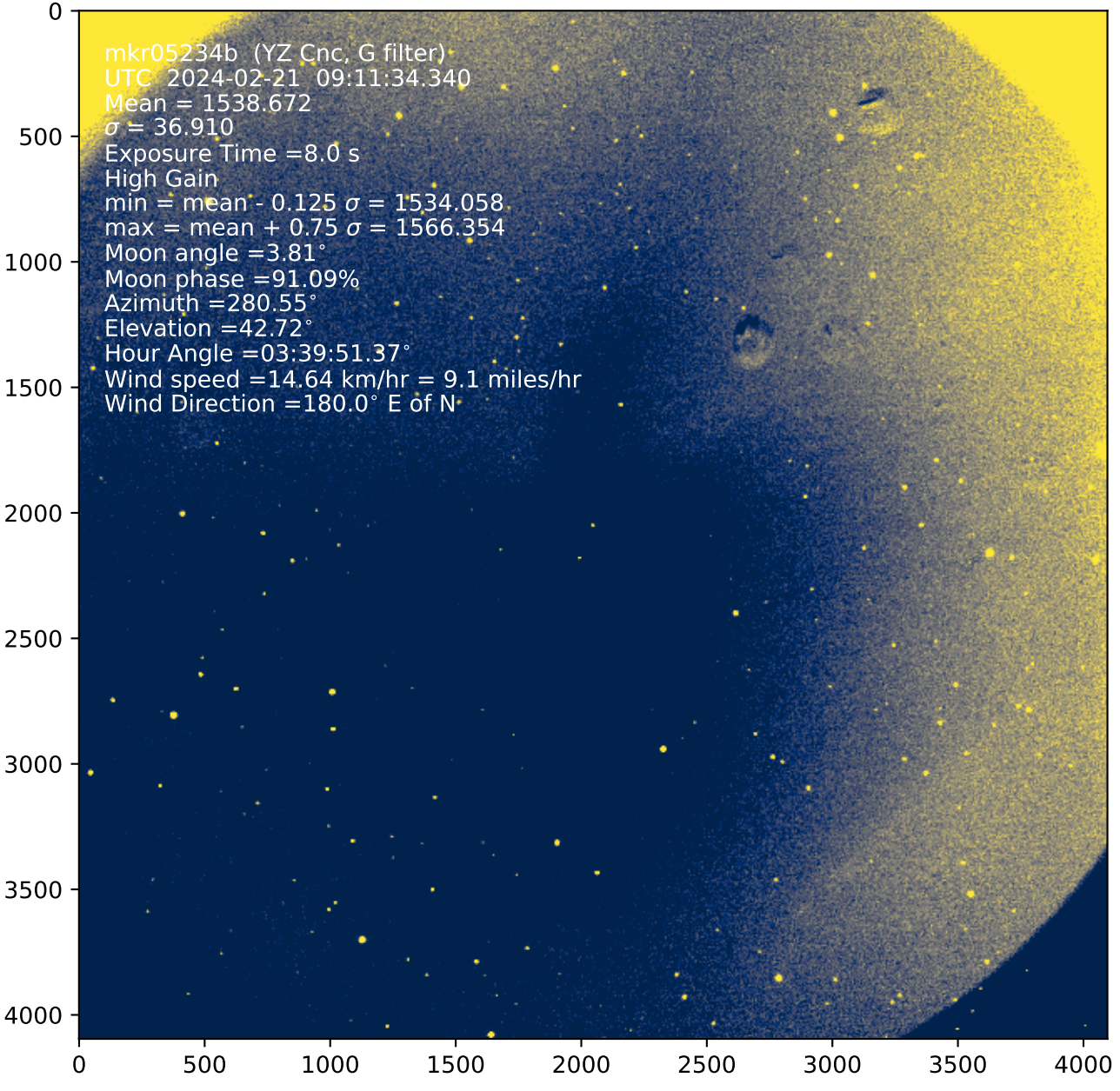
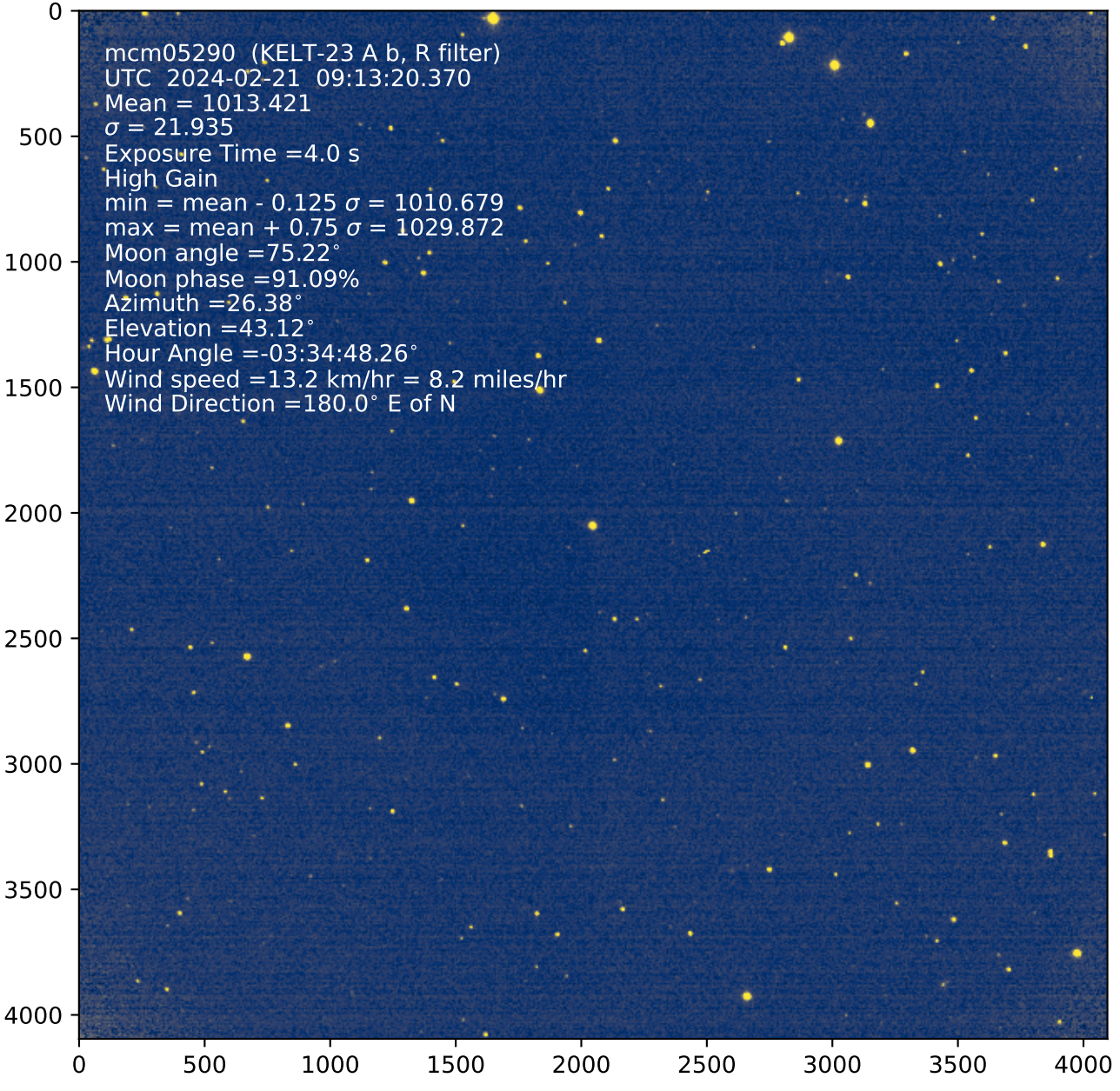
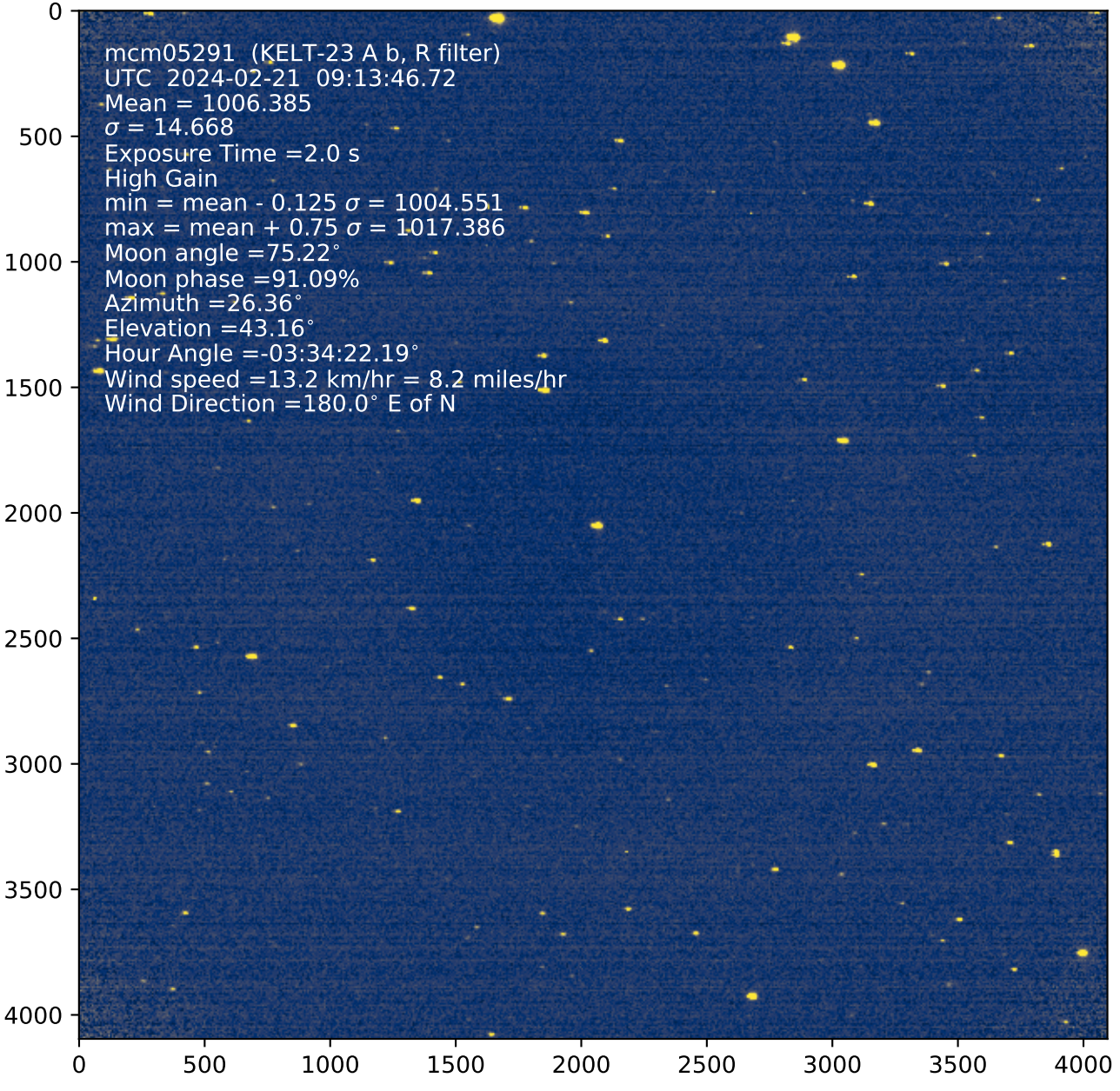
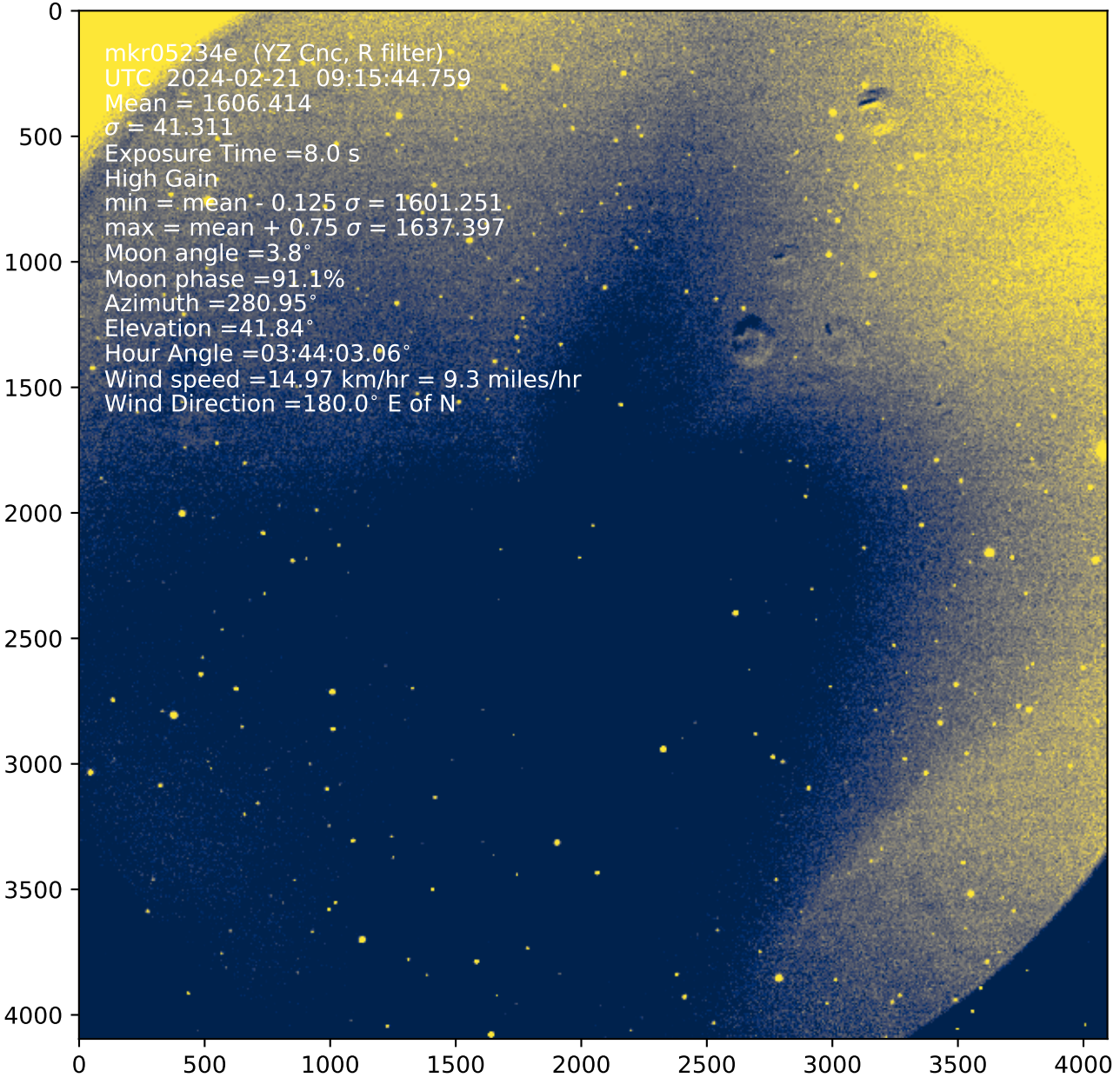
1500
2000
2500
3000
3500
4000


mkr05234b (YZ Cnc, G filter)
UTC 2024-02-21 09:11:34.340
Mean = 1538.672
σ = 36.910
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1534.058
max = mean + 0.75 σ = 1566.354
Moon angle =3.81°
Moon phase =91.09%
Azimuth =280.55°
Elevation =42.72°
Hour Angle =03:39:51.37°
Wind speed =14.64 km/hr = 9.1 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mcm05290 (KELT-23 A b, R filter)
UTC 2024-02-21 09:13:20.370
Mean = 1013.421
σ = 21.935
Exposure Time =4.0 s
High Gain
min = mean - 0.125 σ = 1010.679
max = mean + 0.75 σ = 1029.872
Moon angle =75.22°
Moon phase =91.09%
Azimuth =26.38°
Elevation =43.12°
Hour Angle =-03:34:48.26°
Wind speed =13.2 km/hr = 8.2 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mcm05291 (KELT-23 A b, R filter)
UTC 2024-02-21 09:13:46.72
Mean = 1006.385
σ = 14.668
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1004.551
max = mean + 0.75 σ = 1017.386
Moon angle =75.22°
Moon phase =91.09%
Azimuth =26.36°
Elevation =43.16°
Hour Angle =-03:34:22.19°
Wind speed =13.2 km/hr = 8.2 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr05234e (YZ Cnc, R filter)
UTC 2024-02-21 09:15:44.759
Mean = 1606.414
σ = 41.311
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1601.251
max = mean + 0.75 σ = 1637.397
Moon angle =3.8°
Moon phase =91.1%
Azimuth =280.95°
Elevation =41.84°
Hour Angle =03:44:03.06°
Wind speed =14.97 km/hr = 9.3 miles/hr
Wind Direction =180.0° E of N
0
500
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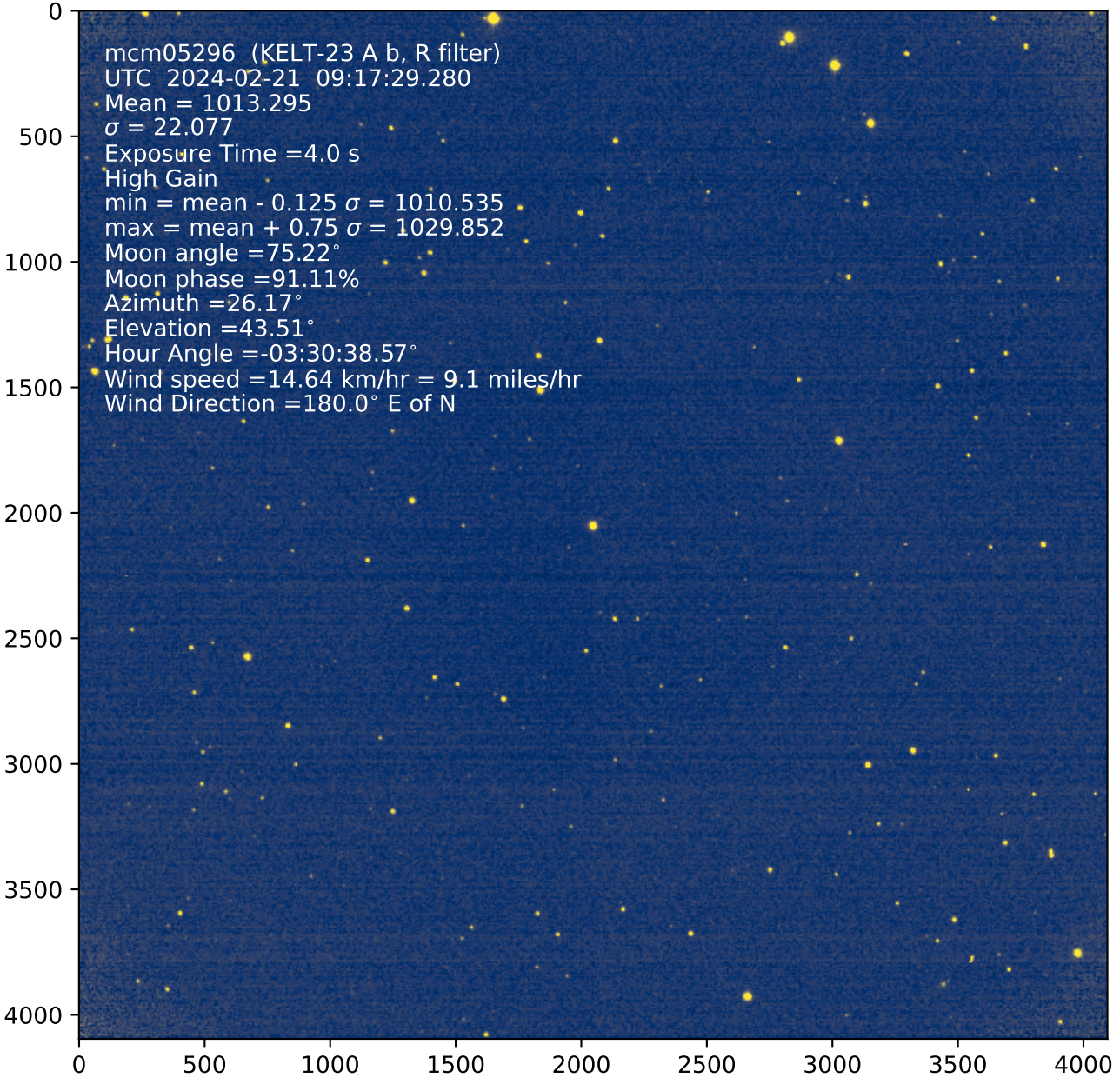
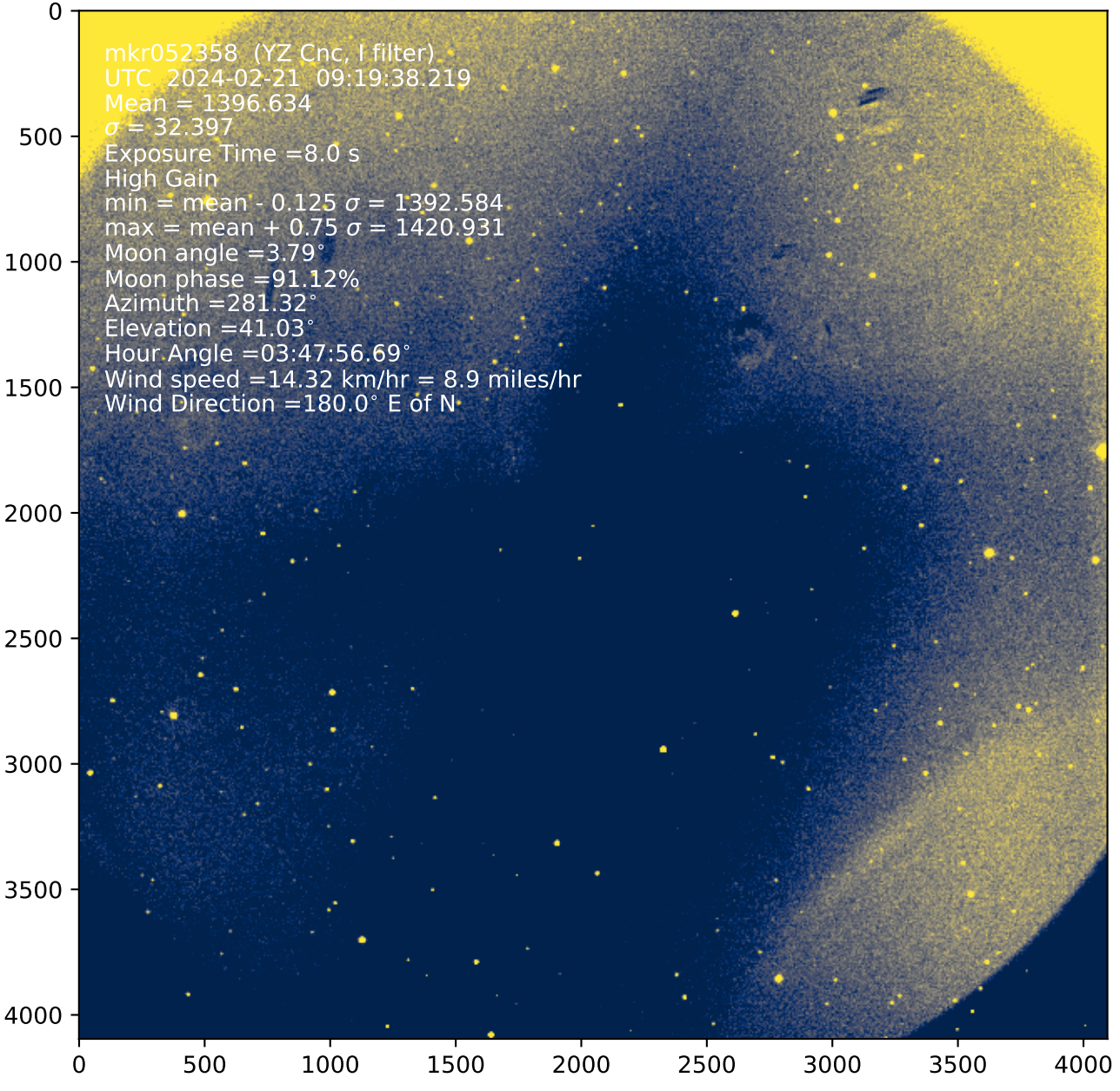
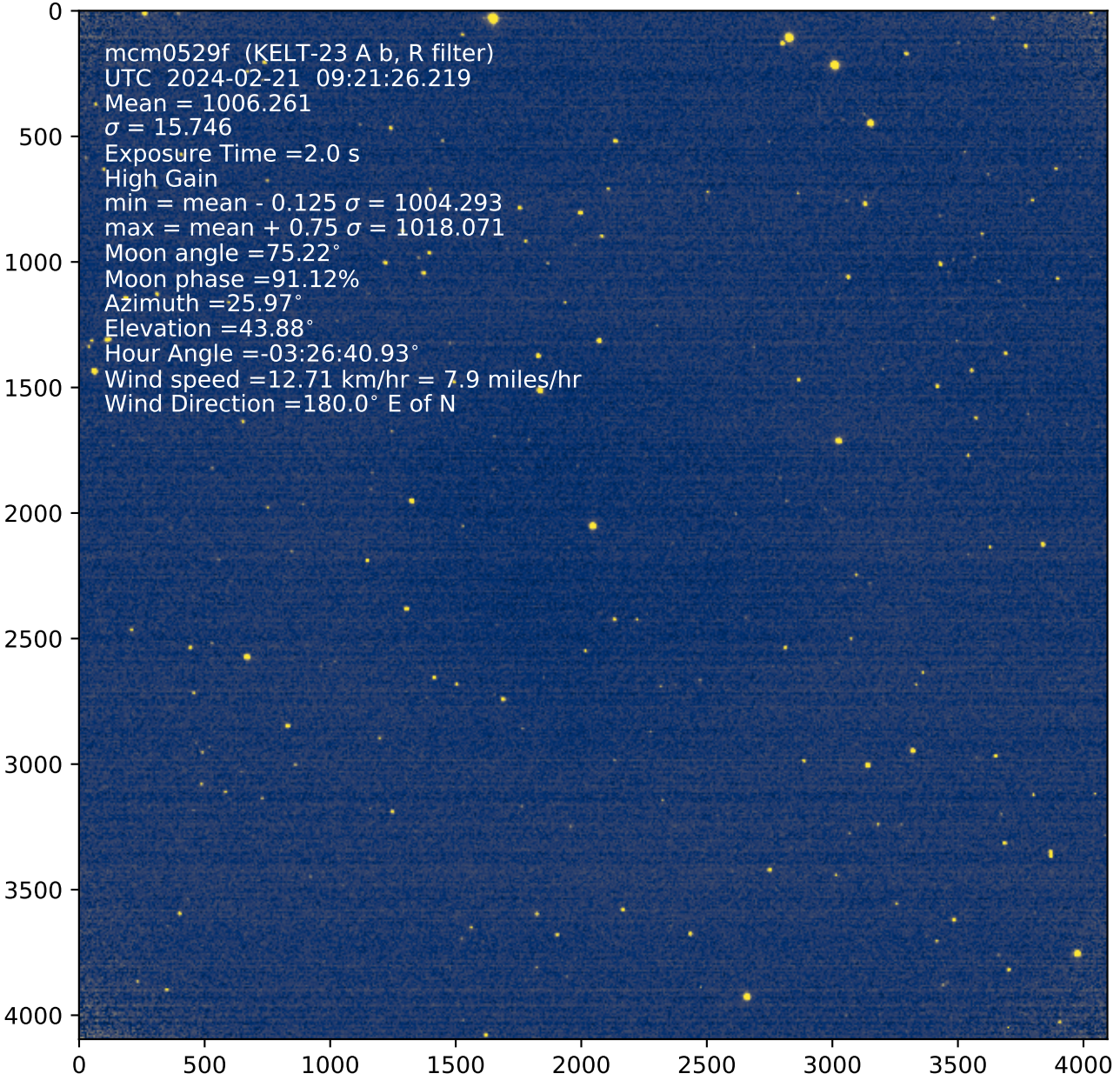
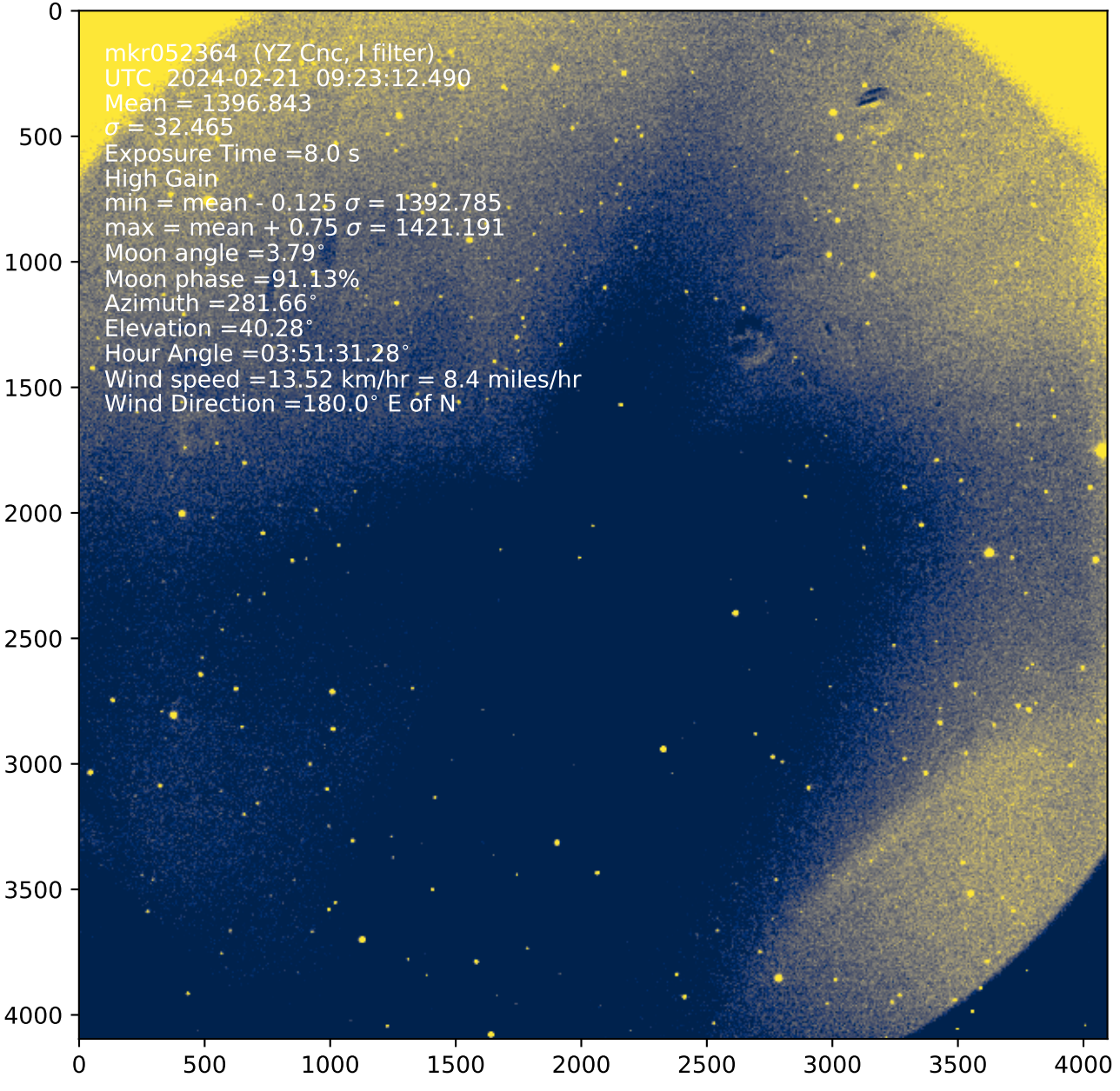
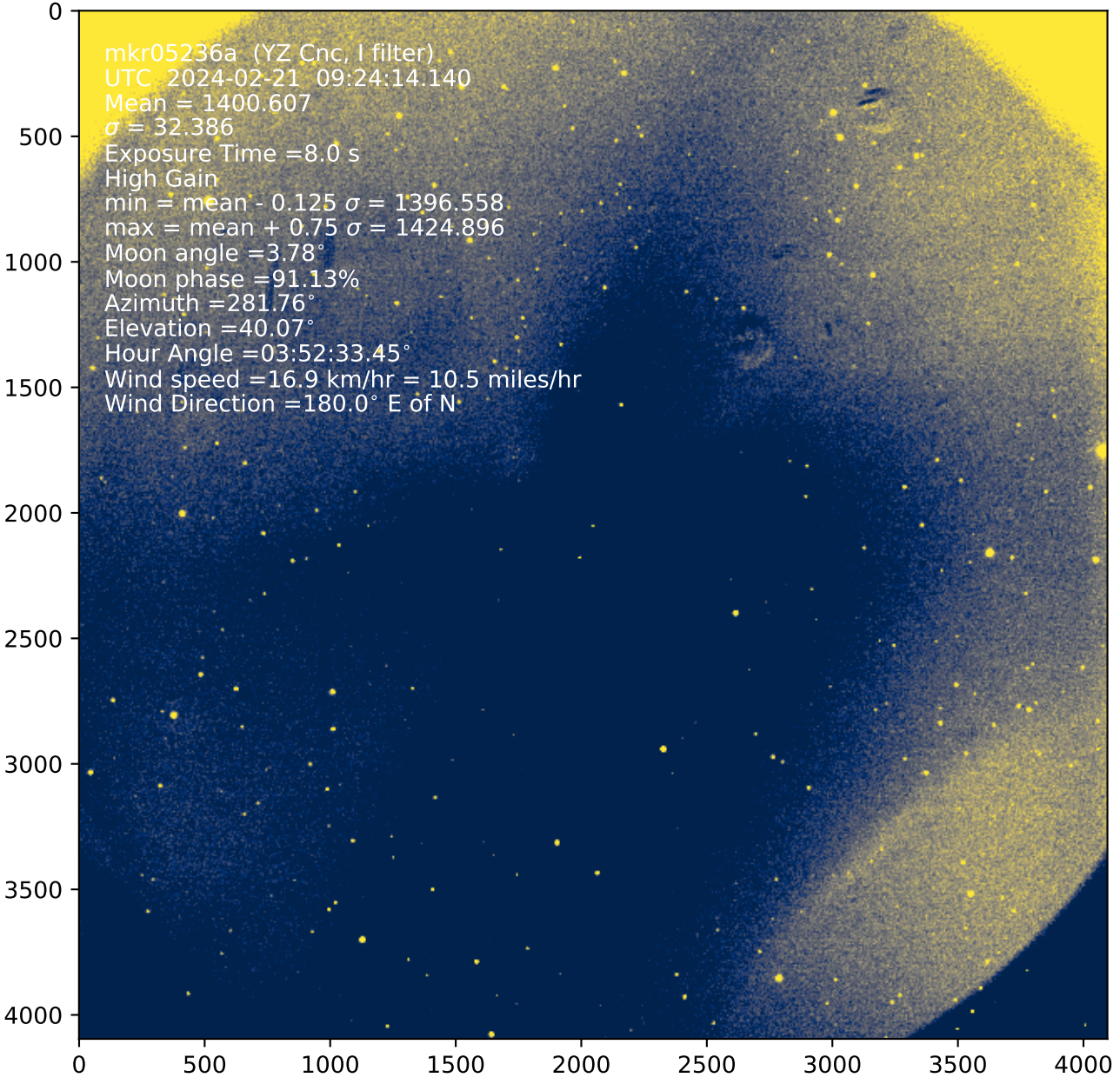
3500
4000

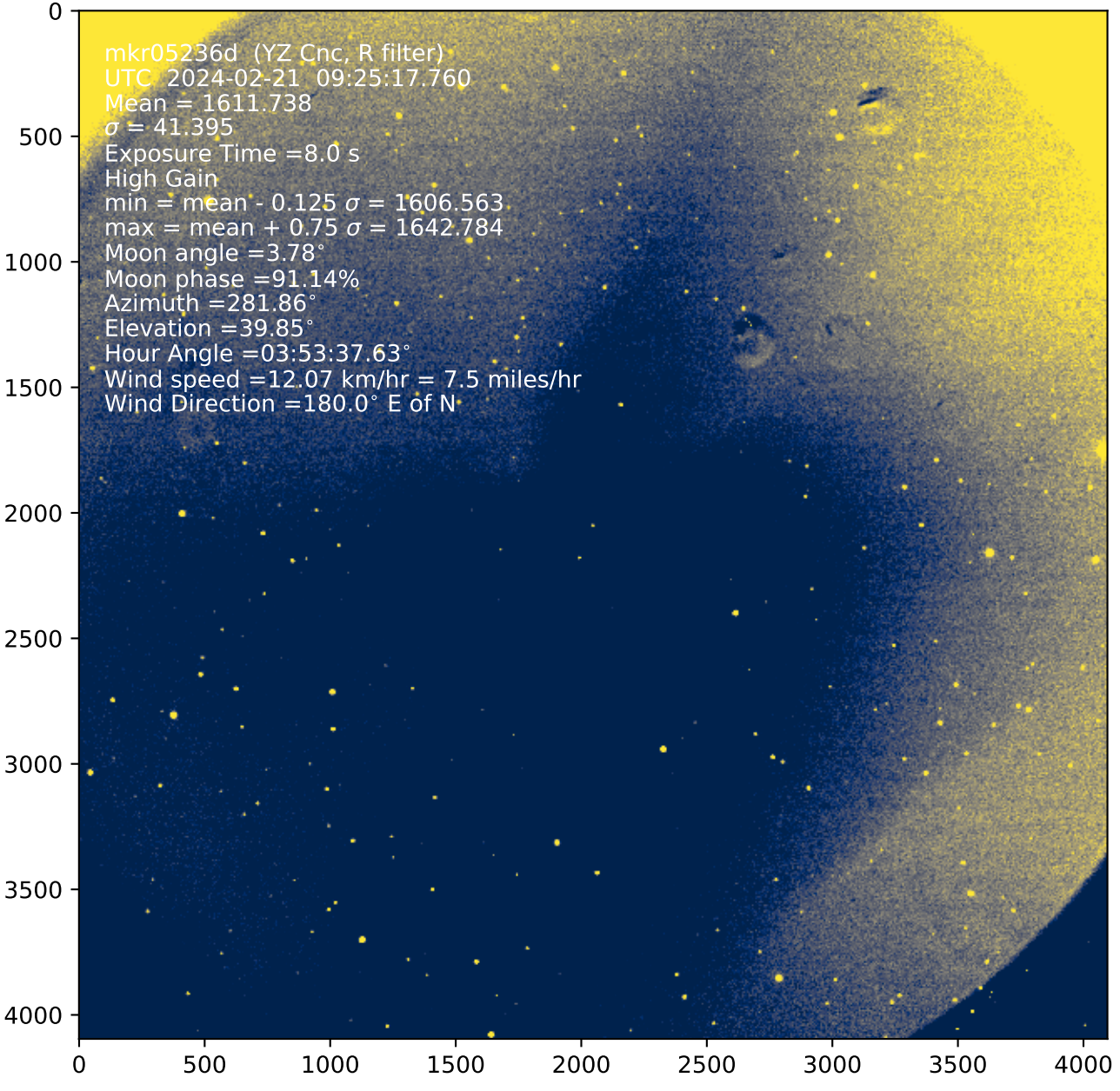

mcm05296 (KELT-23 A b, R filter)
UTC 2024-02-21 09:17:29.280
Mean = 1013.295
σ = 22.077
Exposure Time =4.0 s
High Gain
min = mean - 0.125 σ = 1010.535
max = mean + 0.75 σ = 1029.852
Moon angle =75.22°
Moon phase =91.11%
Azimuth =26.17°
Elevation =43.51°
Hour Angle =-03:30:38.57°
Wind speed =14.64 km/hr = 9.1 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000

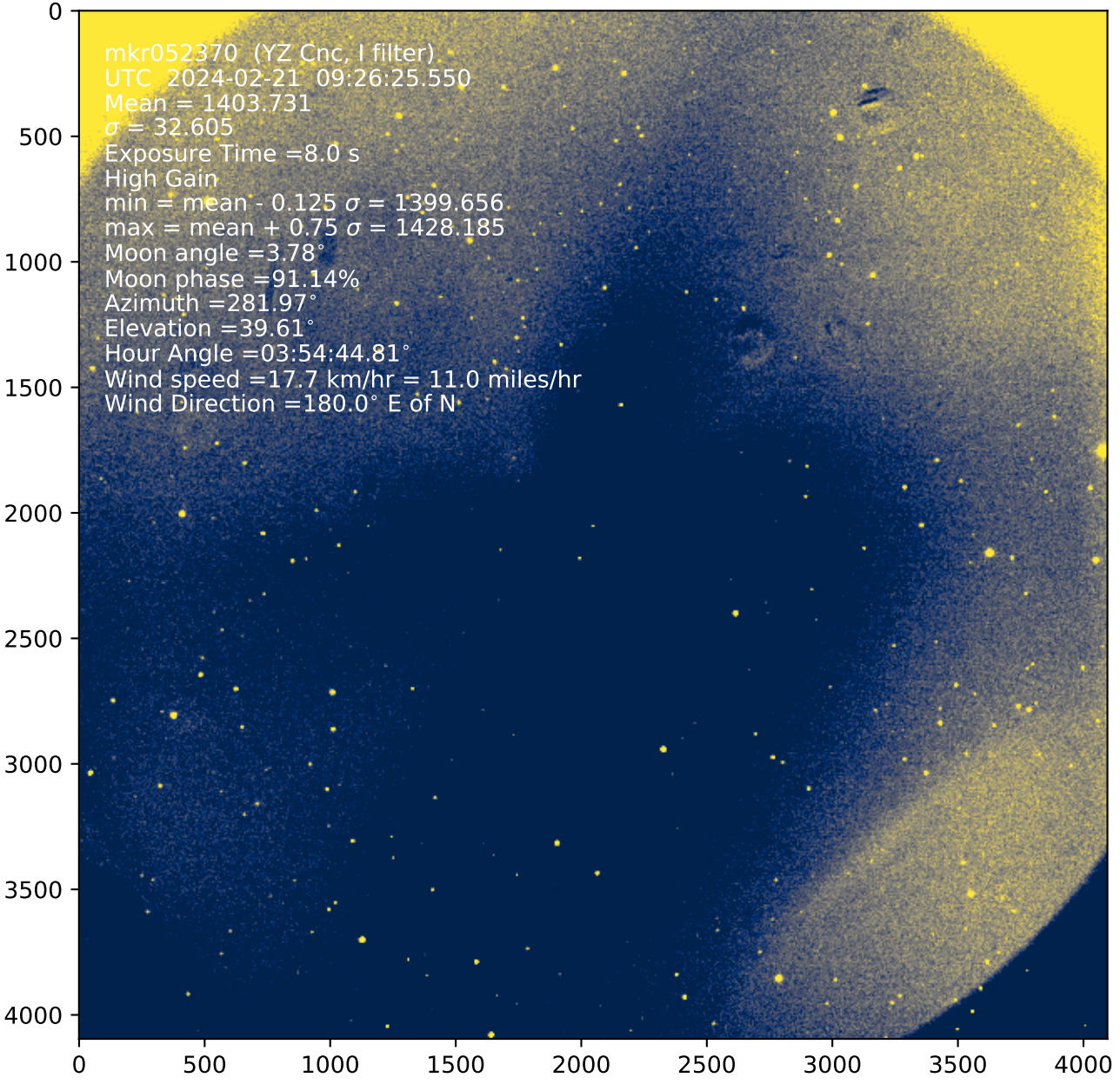

mkr052358 (YZ Cnc, I filter)
UTC 2024-02-21 09:19:38.219
Mean = 1396.634
σ = 32.397
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1392.584
max = mean + 0.75 σ = 1420.931
Moon angle =3.79°
Moon phase =91.12%
Azimuth =281.32°
Elevation =41.03°
Hour Angle =03:47:56.69°
Wind speed =14.32 km/hr = 8.9 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mcm0529f (KELT-23 A b, R filter)
UTC 2024-02-21 09:21:26.219
Mean = 1006.261
σ = 15.746
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1004.293
max = mean + 0.75 σ = 1018.071
Moon angle =75.22°
Moon phase =91.12%
Azimuth =25.97°
Elevation =43.88°
Hour Angle =-03:26:40.93°
Wind speed =12.71 km/hr = 7.9 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr052364 (YZ Cnc, I filter)
UTC 2024-02-21 09:23:12.490
Mean = 1396.843
σ = 32.465
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1392.785
max = mean + 0.75 σ = 1421.191
Moon angle =3.79°
Moon phase =91.13%
Azimuth =281.66°
Elevation =40.28°
Hour Angle =03:51:31.28°
Wind speed =13.52 km/hr = 8.4 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr05236a (YZ Cnc, I filter)
UTC 2024-02-21 09:24:14.140
Mean = 1400.607
σ = 32.386
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1396.558
max = mean + 0.75 σ = 1424.896
Moon angle =3.78°
Moon phase =91.13%
Azimuth =281.76°
Elevation =40.07°
Hour Angle =03:52:33.45°
Wind speed =16.9 km/hr = 10.5 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr05236d (YZ Cnc, R filter)
UTC 2024-02-21 09:25:17.760
Mean = 1611.738
σ = 41.395
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1606.563
max = mean + 0.75 σ = 1642.784
Moon angle =3.78°
Moon phase =91.14%
Azimuth =281.86°
Elevation =39.85°
Hour Angle =03:53:37.63°
Wind speed =12.07 km/hr = 7.5 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr052370 (YZ Cnc, I filter)
UTC 2024-02-21 09:26:25.550
Mean = 1403.731
σ = 32.605
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1399.656
max = mean + 0.75 σ = 1428.185
Moon angle =3.78°
Moon phase =91.14%
Azimuth =281.97°
Elevation =39.61°
Hour Angle =03:54:44.81°
Wind speed =17.7 km/hr = 11.0 miles/hr
Wind Direction =180.0° E of N
0
500
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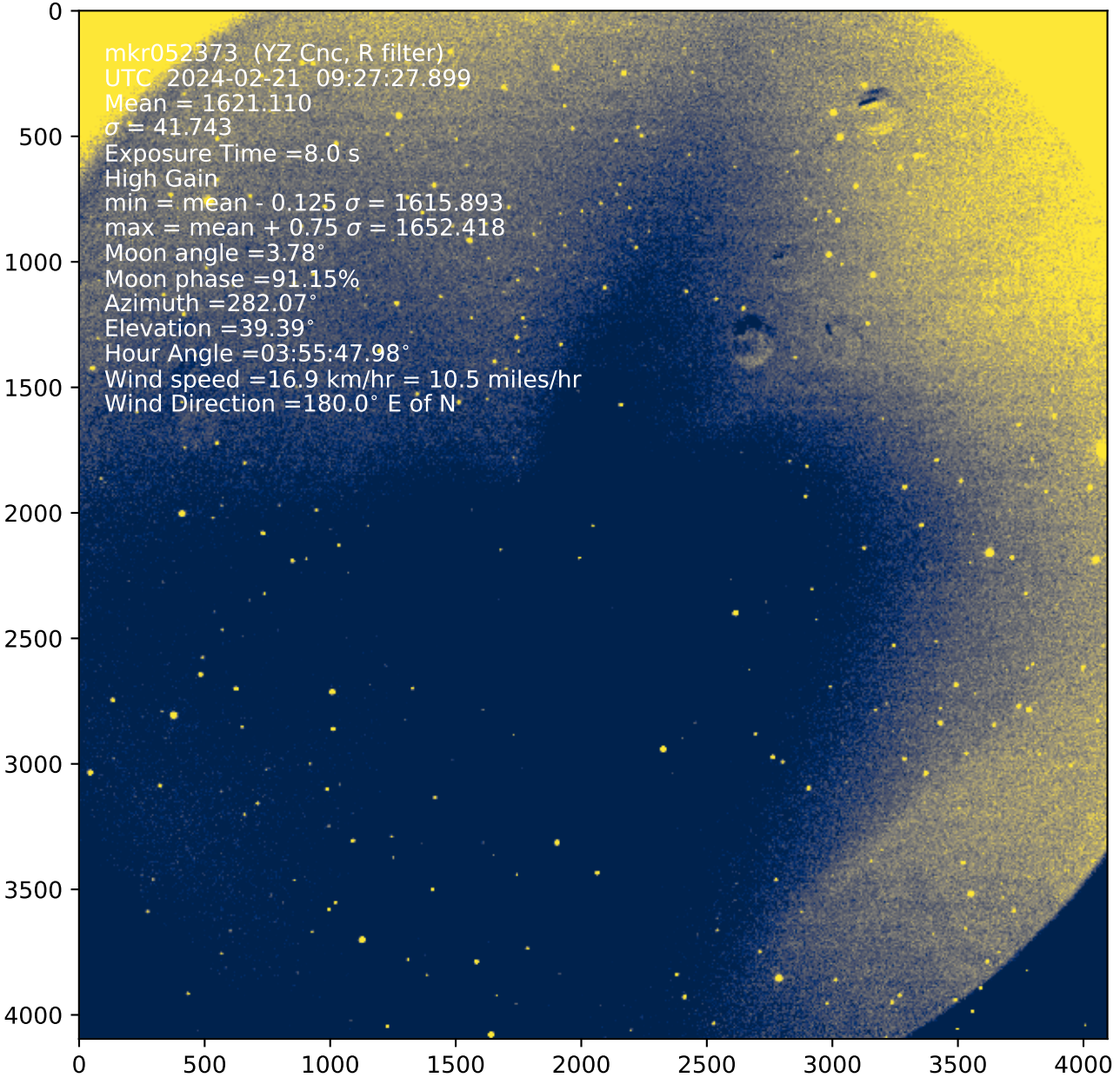
1500
2000
2500
3000
3500
4000


mkr052373 (YZ Cnc, R filter)
UTC 2024-02-21 09:27:27.899
Mean = 1621.110
σ = 41.743
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1615.893
max = mean + 0.75 σ = 1652.418
Moon angle =3.78°
Moon phase =91.15%
Azimuth =282.07°
Elevation =39.39°
Hour Angle =03:55:47.98°
Wind speed =16.9 km/hr = 10.5 miles/hr
Wind Direction =180.0° E of N
0
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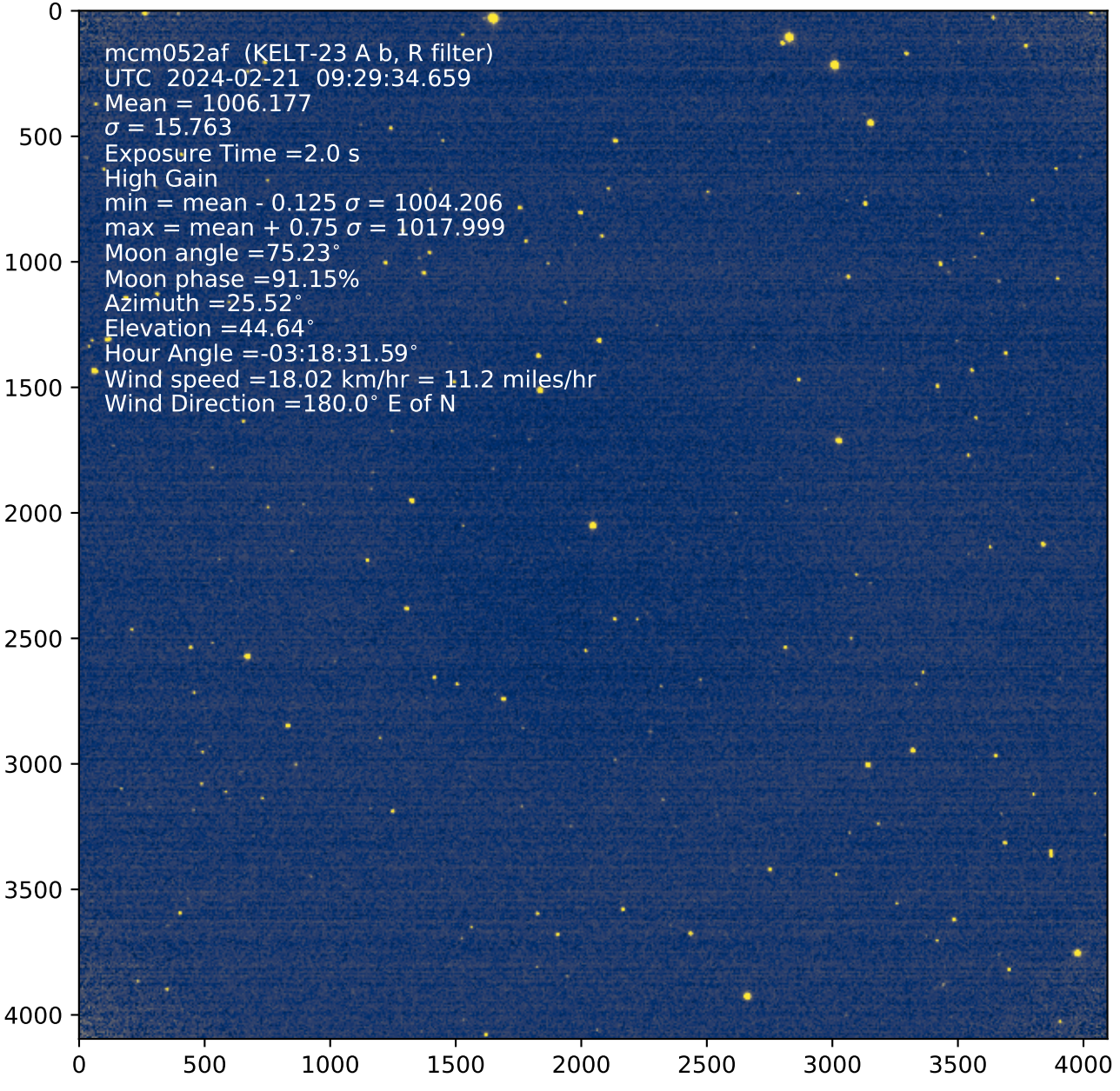
2500
3000
3500
4000


mcm052af (KELT-23 A b, R filter)
UTC 2024-02-21 09:29:34.659
Mean = 1006.177
σ = 15.763
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1004.206
max = mean + 0.75 σ = 1017.999
Moon angle =75.23°
Moon phase =91.15%
Azimuth =25.52°
Elevation =44.64°
Hour Angle =-03:18:31.59°
Wind speed =18.02 km/hr = 11.2 miles/hr
Wind Direction =180.0° E of N
0
500
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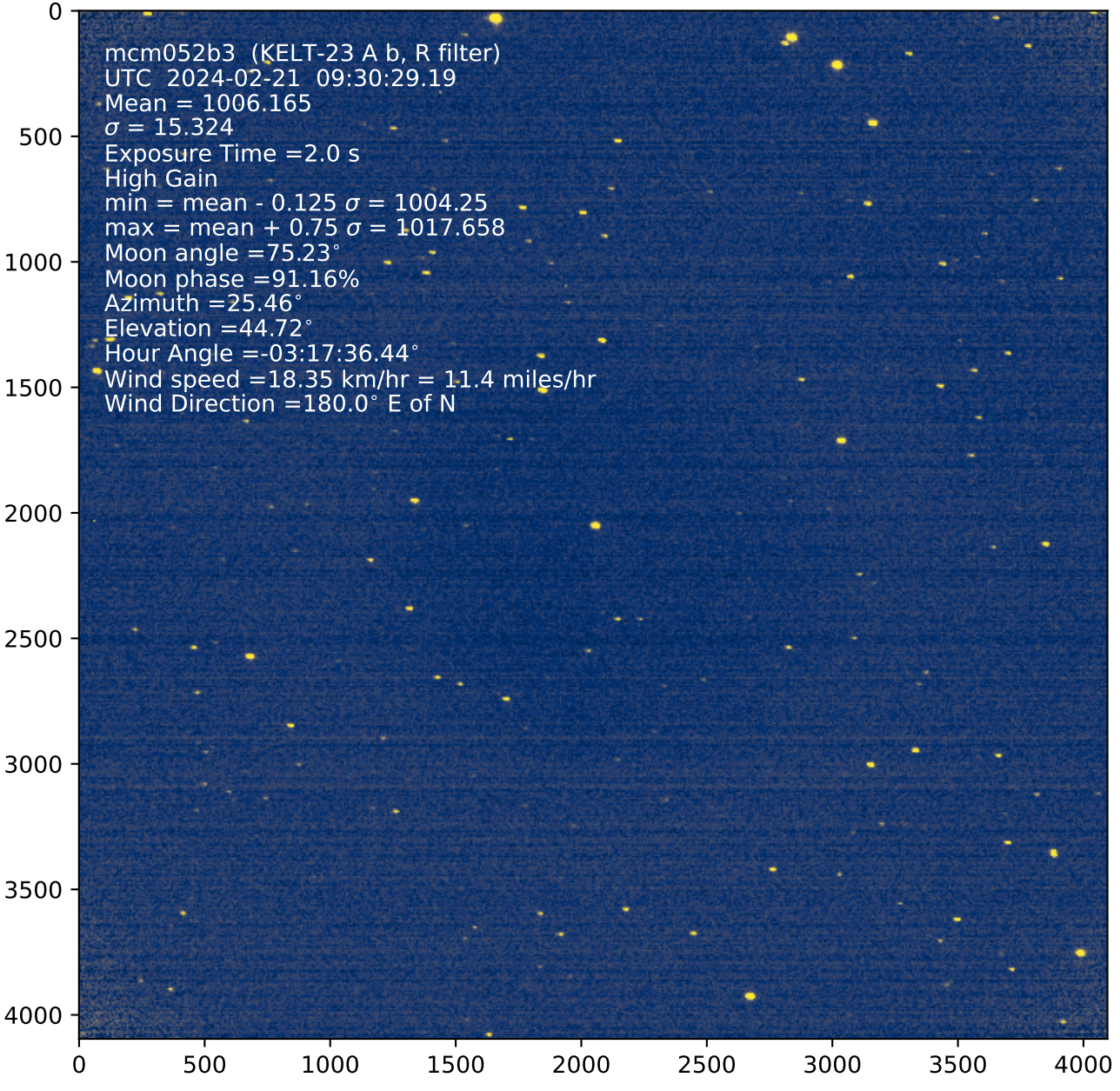
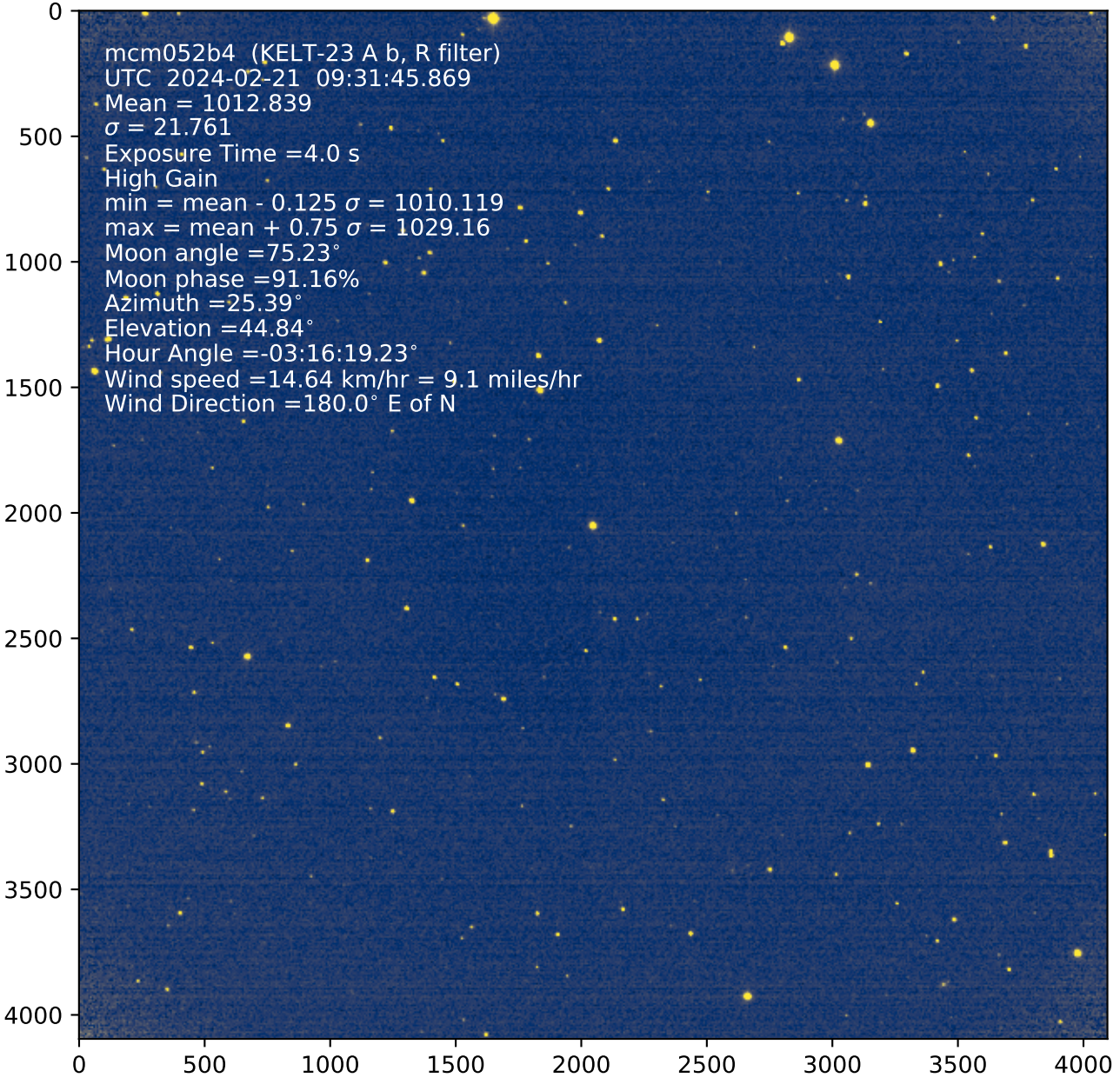
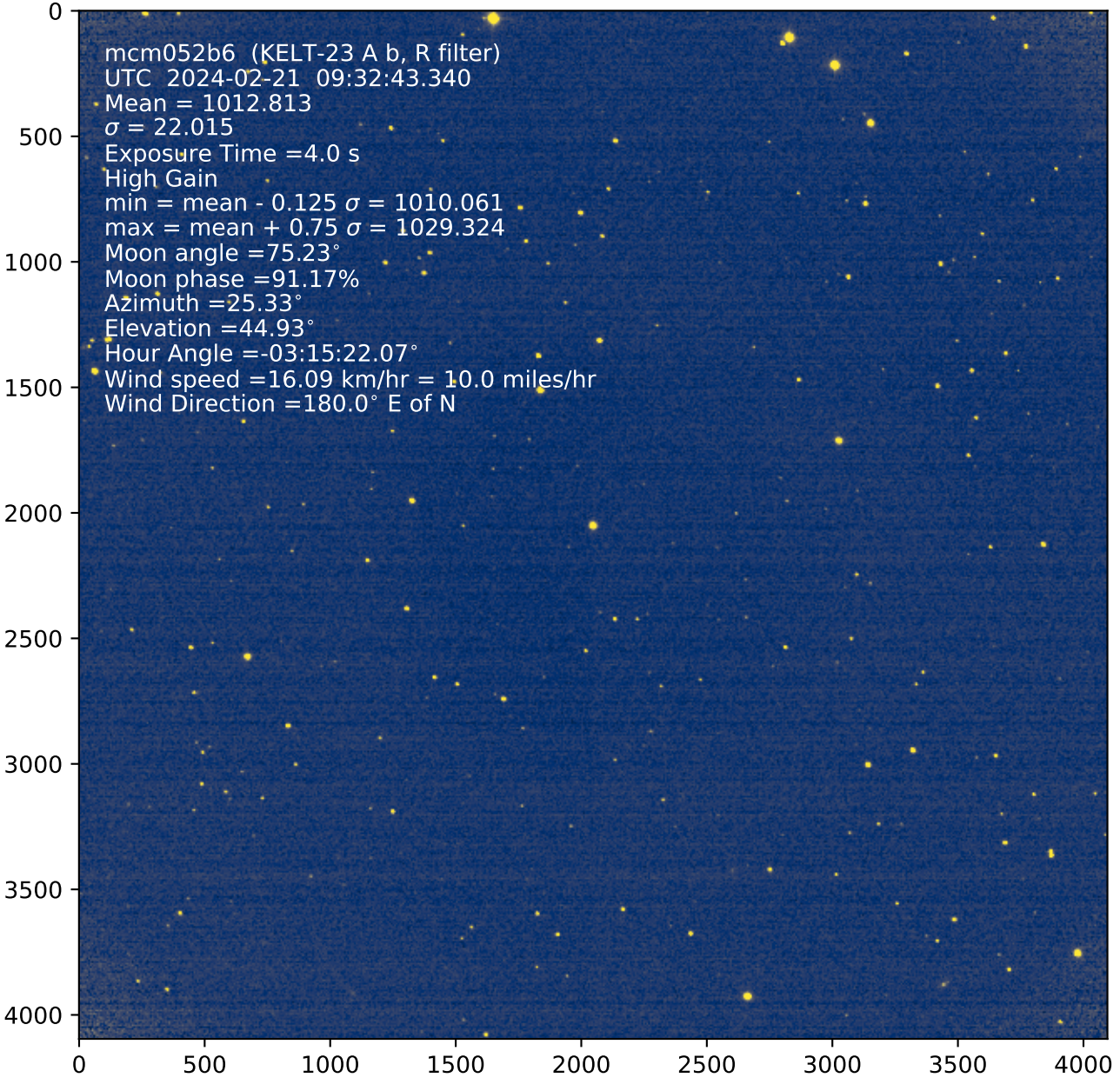
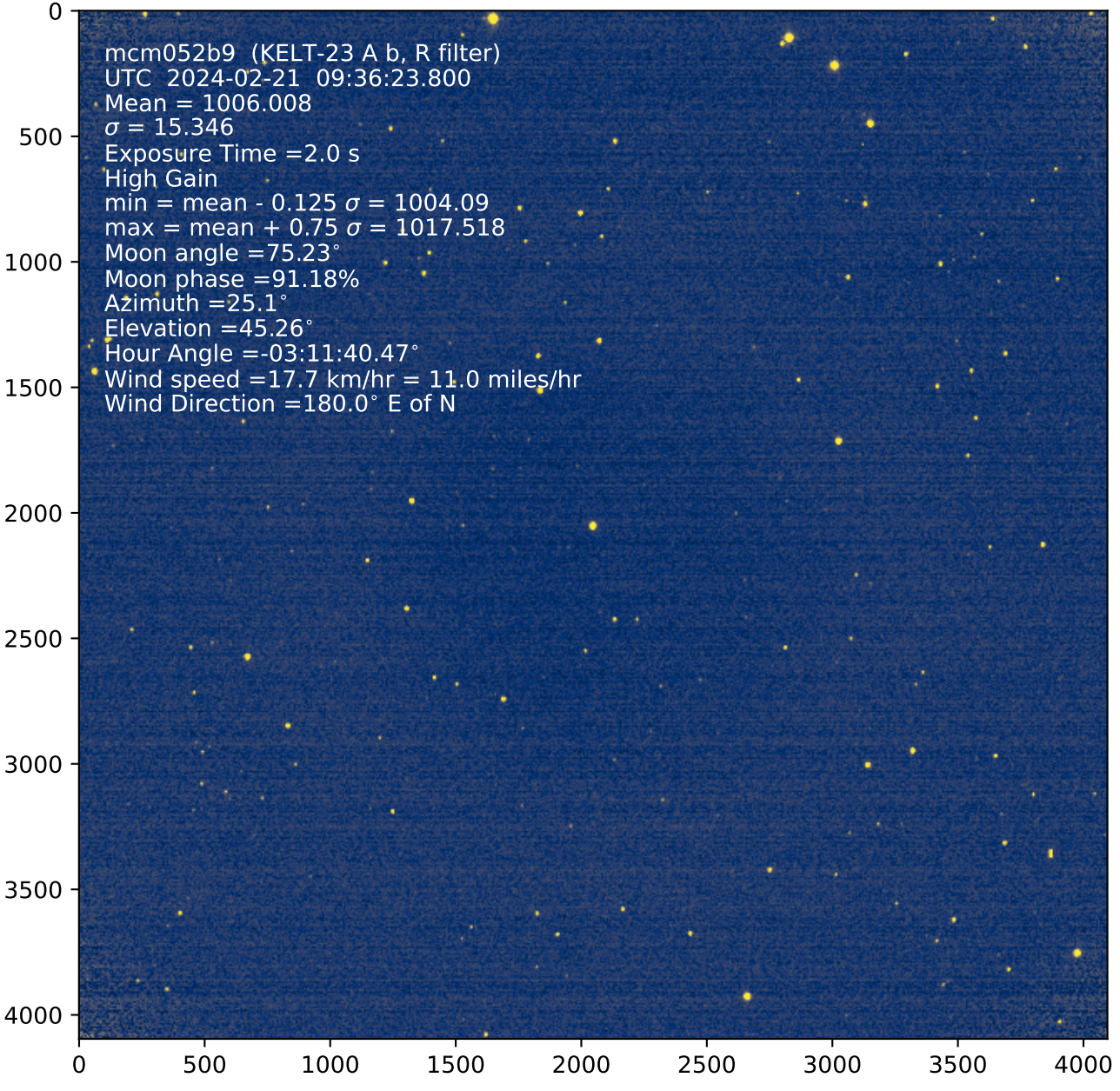
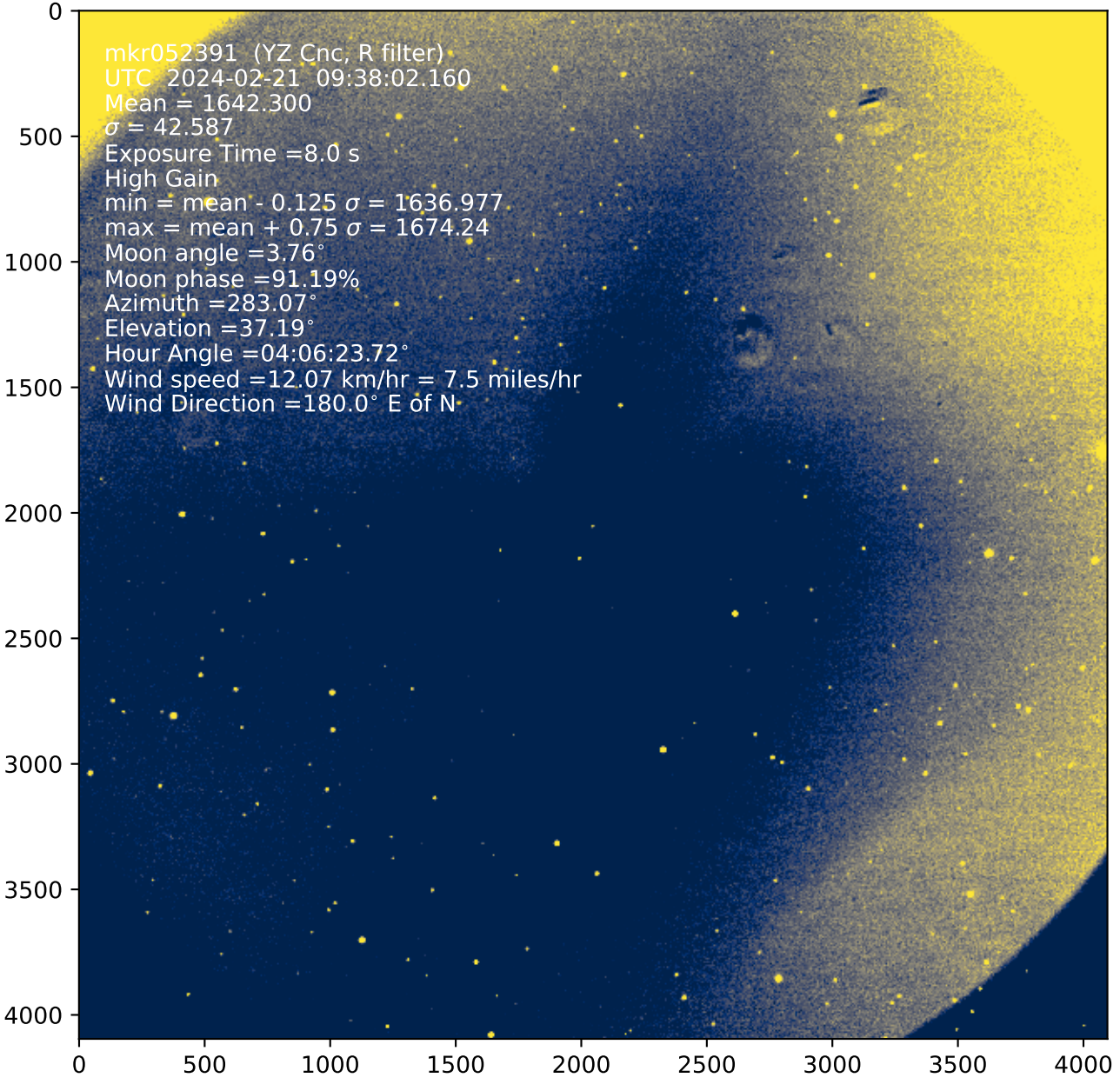
2000
2500
3000
3500
4000

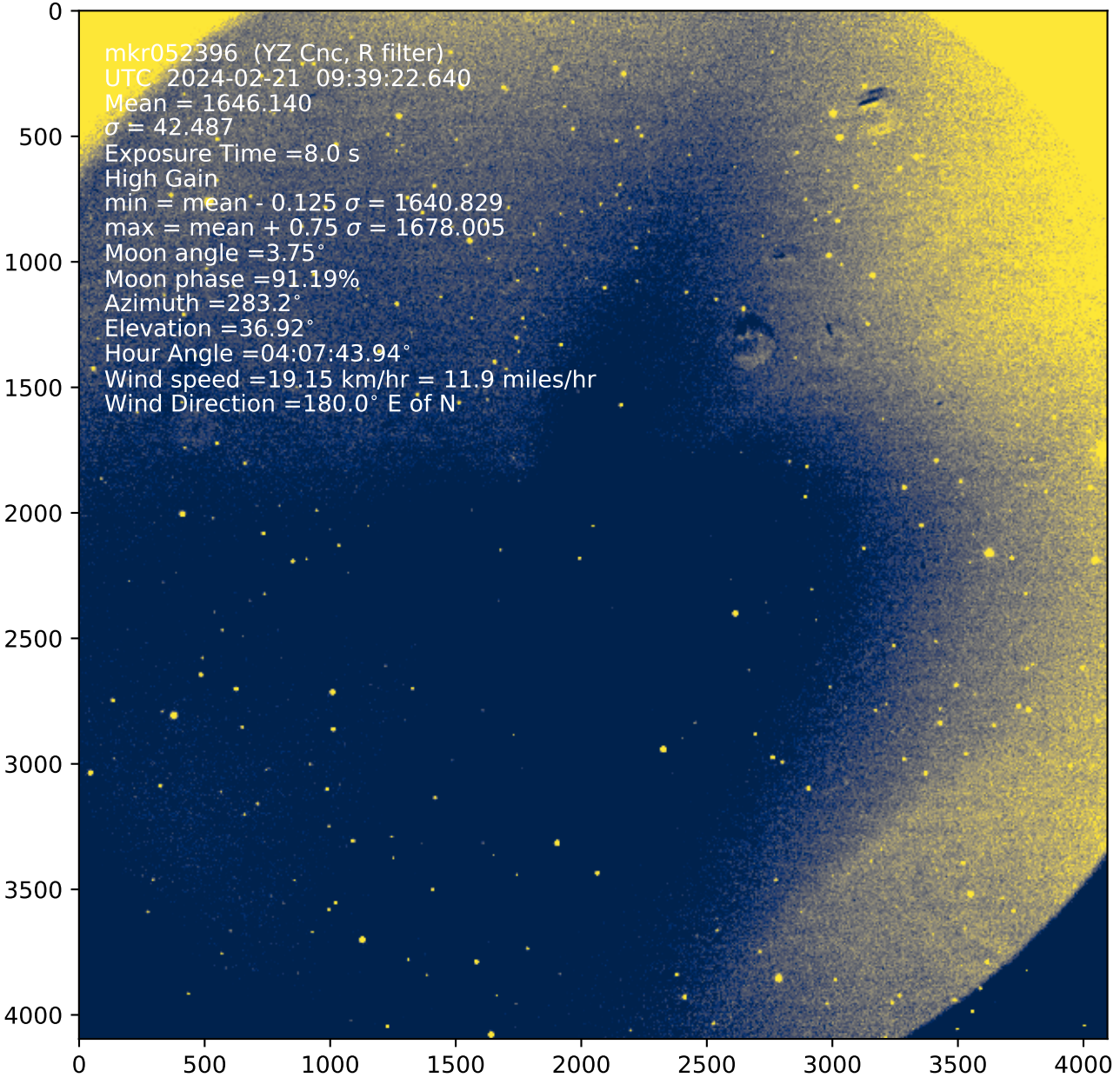

mcm052b3 (KELT-23 A b, R filter)
UTC 2024-02-21 09:30:29.19
Mean = 1006.165
σ = 15.324
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1004.25
max = mean + 0.75 σ = 1017.658
Moon angle =75.23˚
Moon phase =91.16%
Azimuth =25.46˚
Elevation =44.72˚
Hour Angle =-03:17:36.44˚
Wind speed =18.35 km/hr = 11.4 miles/hr
Wind Direction =180.0˚ E of N
0
500
1000
1500
2000
2500
3000
3500
4000

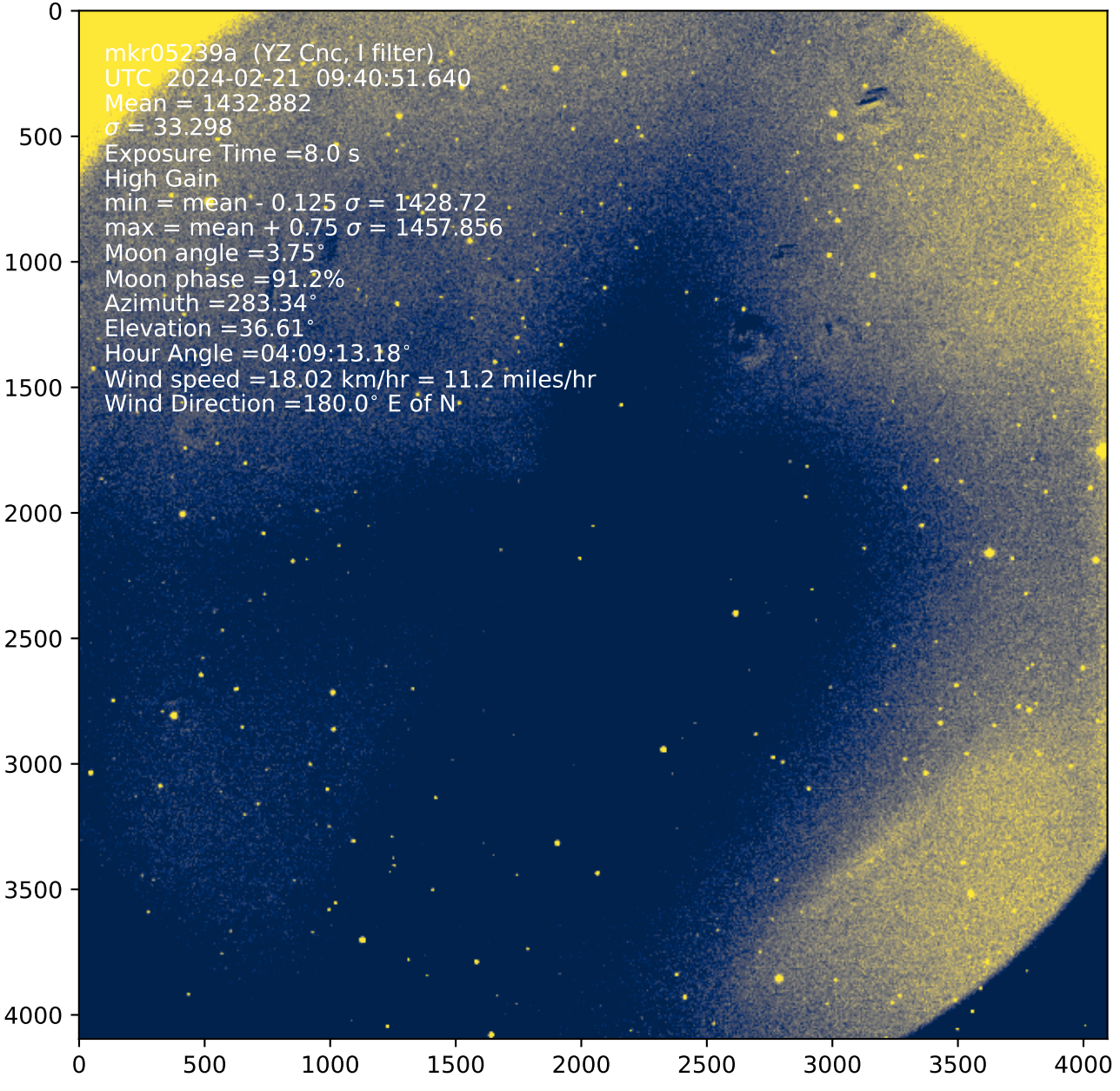

mcm052b4 (KELT-23 A b, R filter)
UTC 2024-02-21 09:31:45.869
Mean = 1012.839
σ = 21.761
Exposure Time =4.0 s
High Gain
min = mean - 0.125 σ = 1010.119
max = mean + 0.75 σ = 1029.16
Moon angle =75.23°
Moon phase =91.16%
Azimuth =25.39°
Elevation =44.84°
Hour Angle =-03:16:19.23°
Wind speed =14.64 km/hr = 9.1 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000

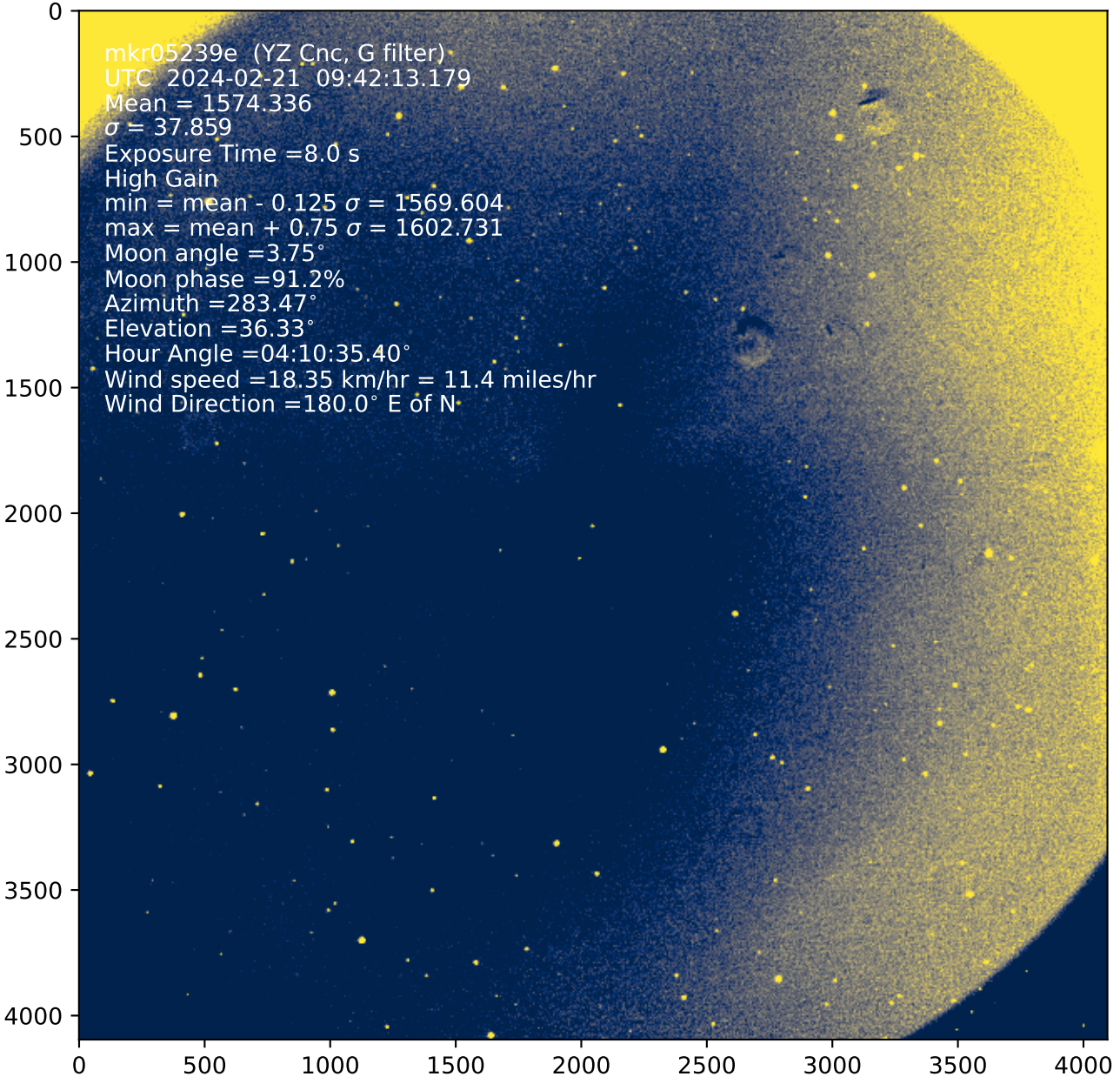

mcm052b6 (KELT-23 A b, R filter)
UTC 2024-02-21 09:32:43.340
Mean = 1012.813
σ = 22.015
Exposure Time =4.0 s
High Gain
min = mean - 0.125 σ = 1010.061
max = mean + 0.75 σ = 1029.324
Moon angle =75.23°
Moon phase =91.17%
Azimuth =25.33°
Elevation =44.93°
Hour Angle =-03:15:22.07°
Wind speed =16.09 km/hr = 10.0 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mcm052b9 (KELT-23 A b, R filter)
UTC 2024-02-21 09:36:23.800
Mean = 1006.008
σ = 15.346
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1004.09
max = mean + 0.75 σ = 1017.518
Moon angle =75.23°
Moon phase =91.18%
Azimuth =25.1°
Elevation =45.26°
Hour Angle =-03:11:40.47°
Wind speed =17.7 km/hr = 11.0 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr052391 (YZ Cnc, R filter)
UTC 2024-02-21 09:38:02.160
Mean = 1642.300
σ = 42.587
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1636.977
max = mean + 0.75 σ = 1674.24
Moon angle =3.76°
Moon phase =91.19%
Azimuth =283.07°
Elevation =37.19°
Hour Angle =04:06:23.72°
Wind speed =12.07 km/hr = 7.5 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr052396 (YZ Cnc, R filter)
UTC 2024-02-21 09:39:22.640
Mean = 1646.140
σ = 42.487
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1640.829
max = mean + 0.75 σ = 1678.005
Moon angle =3.75°
Moon phase =91.19%
Azimuth =283.2°
Elevation =36.92°
Hour Angle =04:07:43.94°
Wind speed =19.15 km/hr = 11.9 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr05239a (YZ Cnc, I filter)
UTC 2024-02-21 09:40:51.640
Mean = 1432.882
σ = 33.298
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1428.72
max = mean + 0.75 σ = 1457.856
Moon angle =3.75°
Moon phase =91.2%
Azimuth =283.34°
Elevation =36.61°
Hour Angle =04:09:13.18°
Wind speed =18.02 km/hr = 11.2 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr05239e (YZ Cnc, G filter)
UTC 2024-02-21 09:42:13.179
Mean = 1574.336
σ = 37.859
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1569.604
max = mean + 0.75 σ = 1602.731
Moon angle =3.75˚
Moon phase =91.2%
Azimuth =283.47˚
Elevation =36.33˚
Hour Angle =04:10:35.40˚
Wind speed =18.35 km/hr = 11.4 miles/hr
Wind Direction =180.0˚ E of N
0
500
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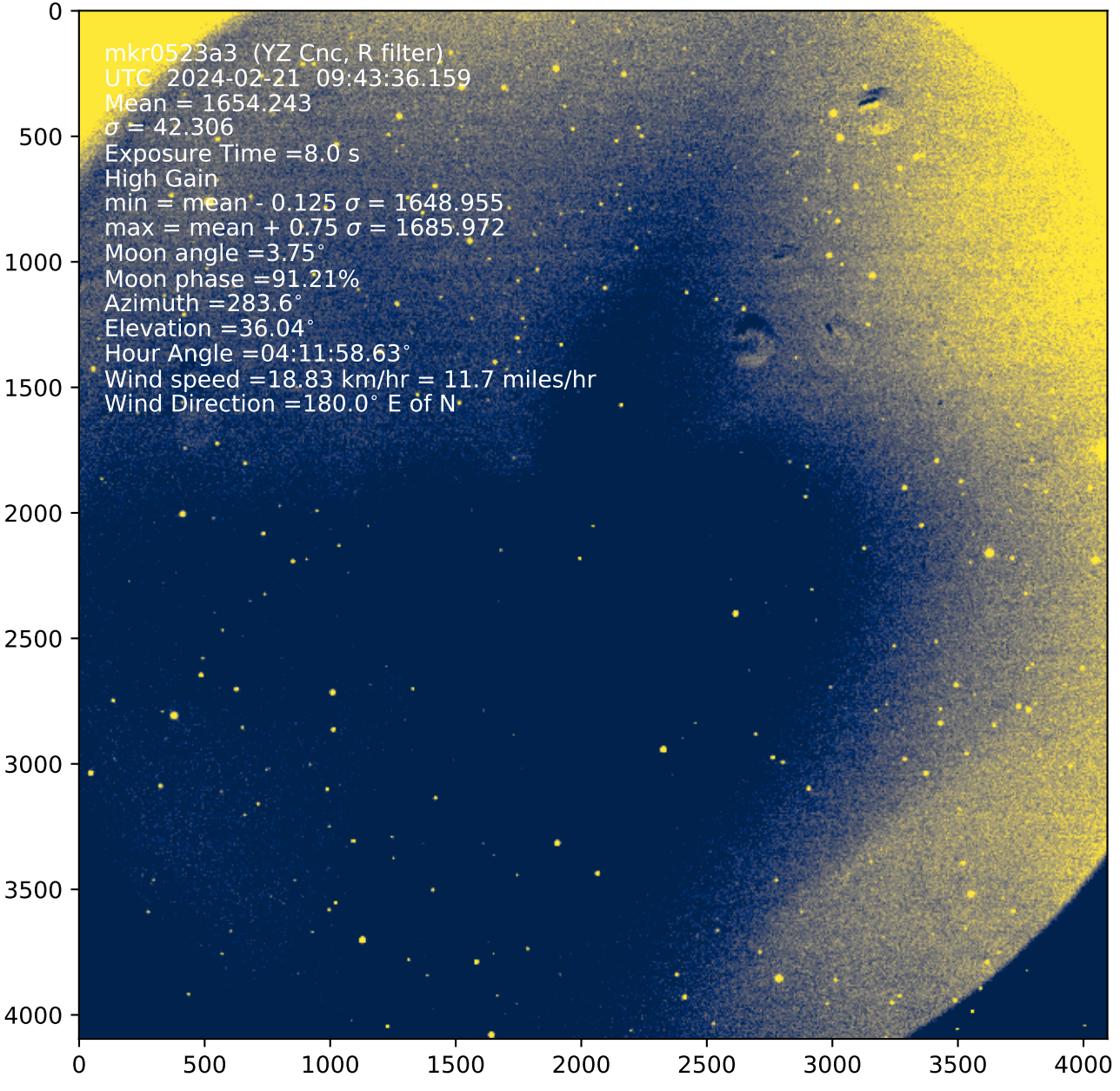
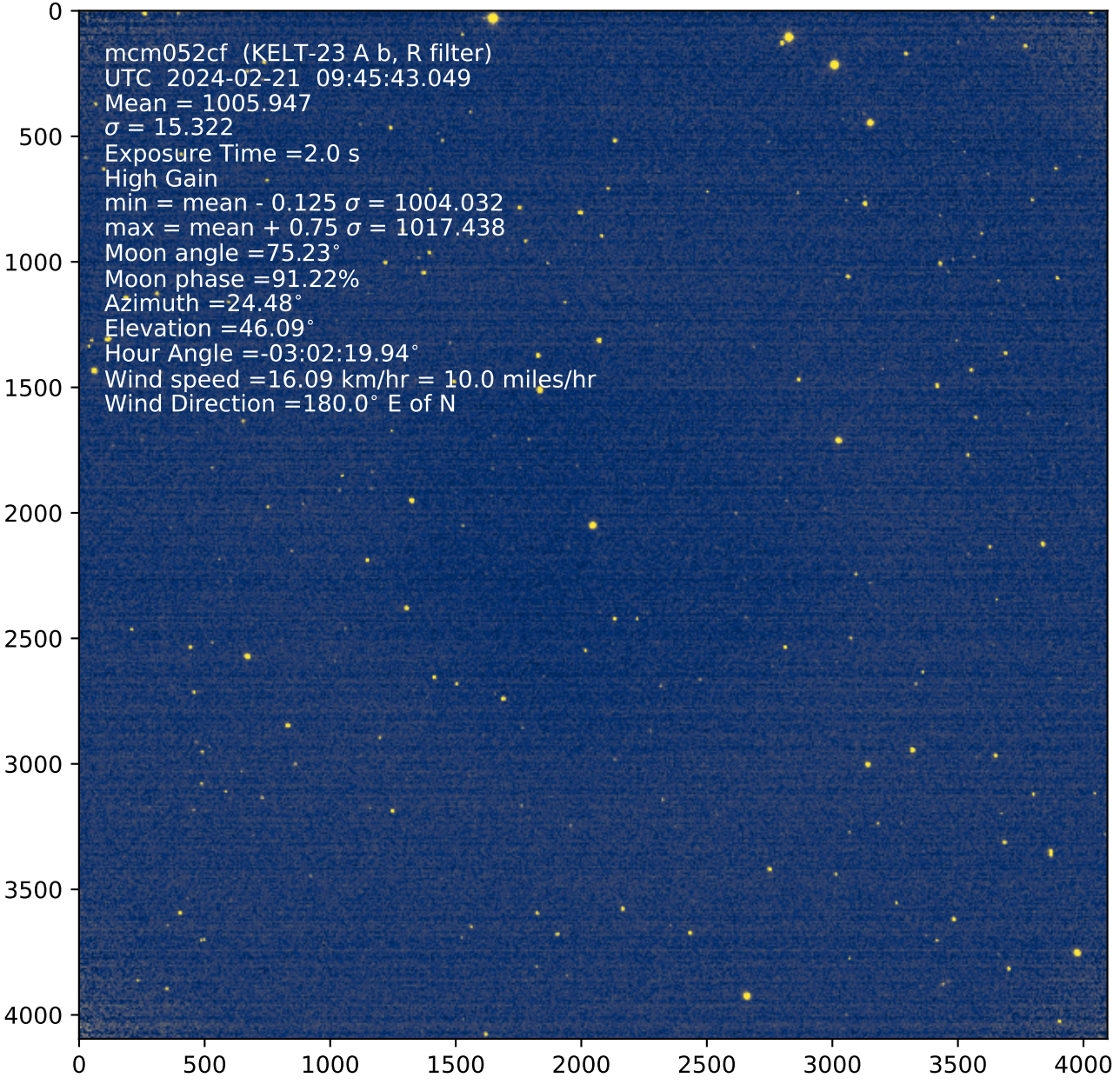
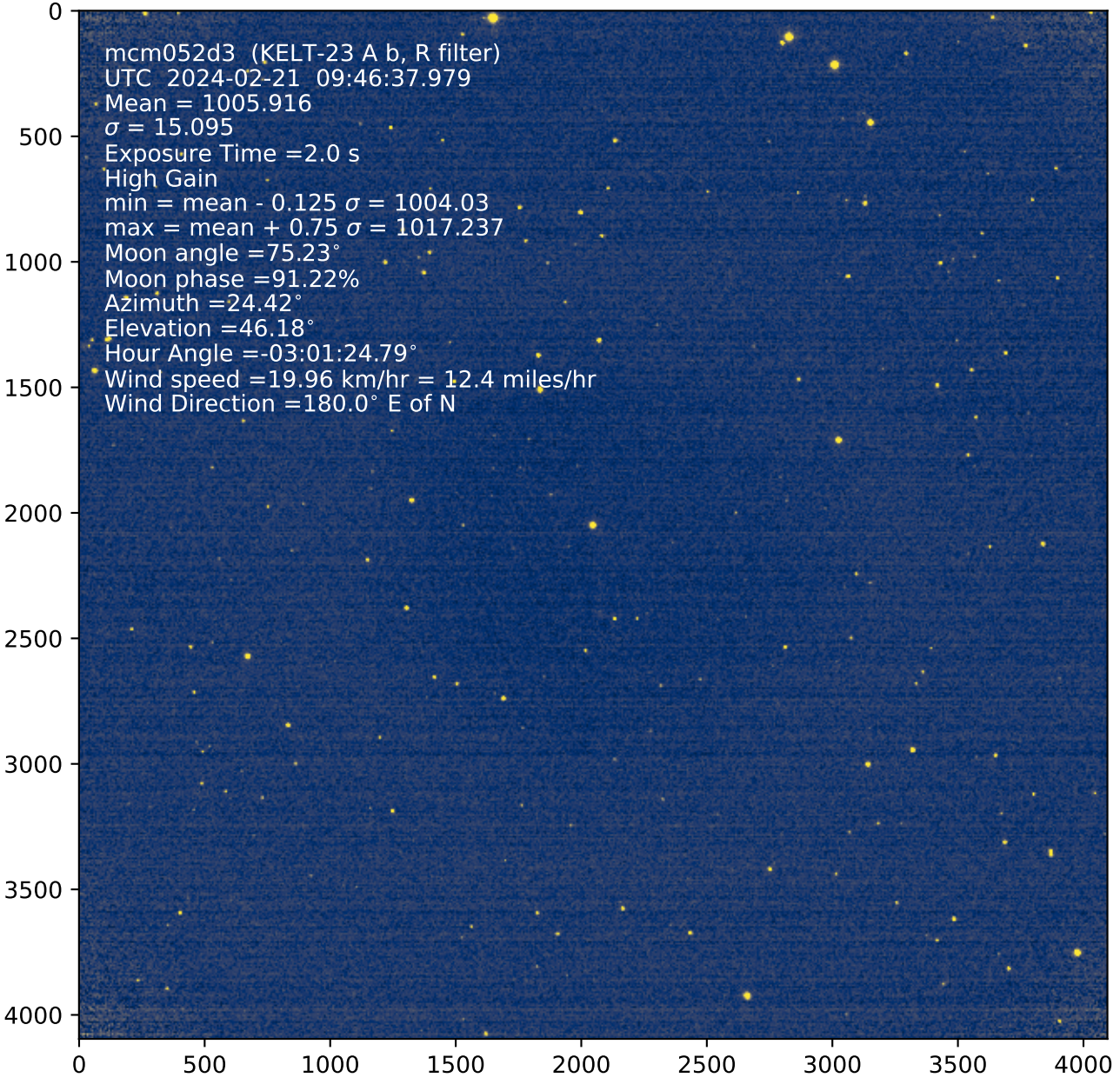
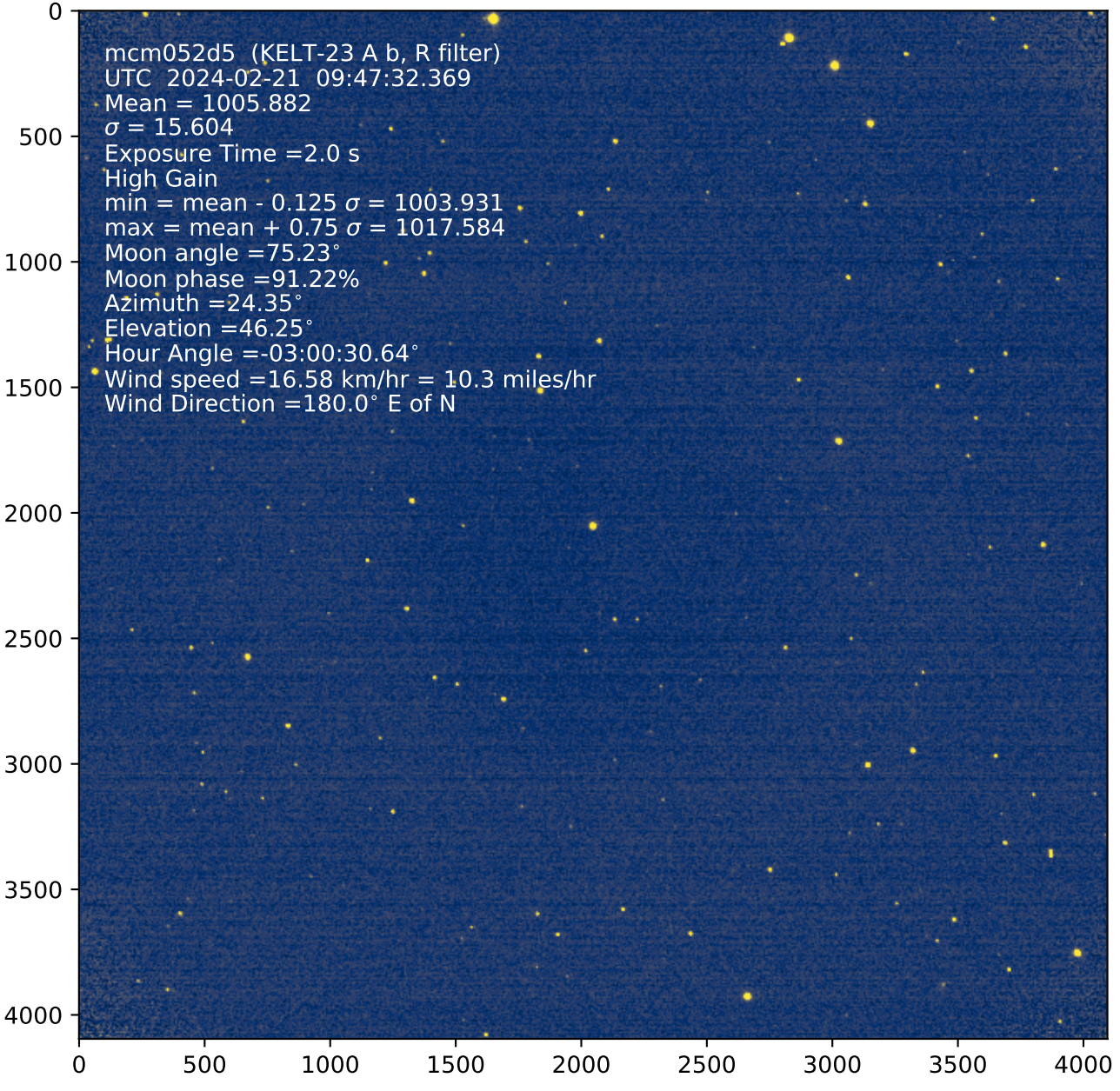
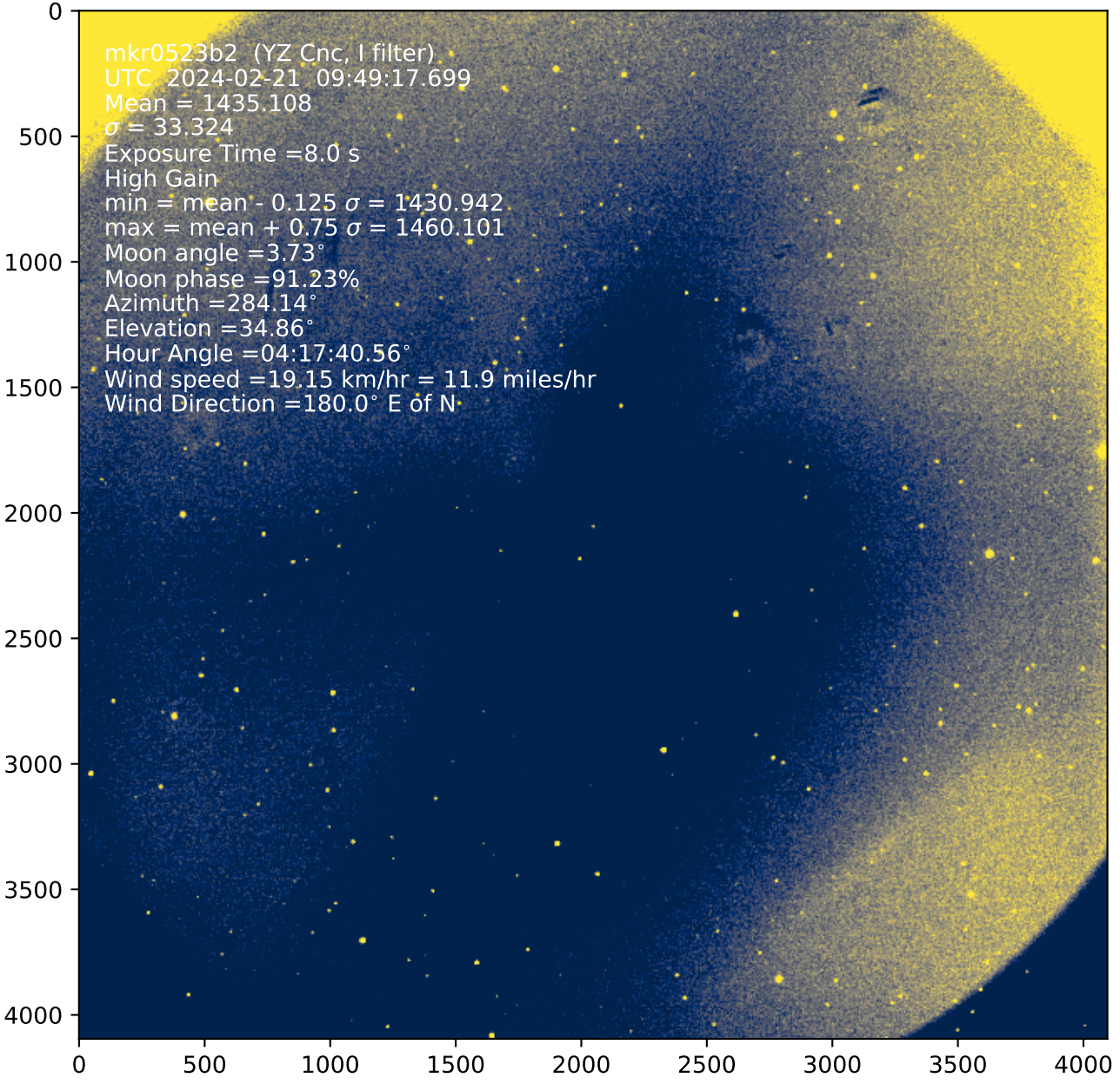
1500
2000
2500
3000
3500
4000


mkr0523a3 (YZ Cnc, R filter)
UTC 2024-02-21 09:43:36.159
Mean = 1654.243
σ = 42.306
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1648.955
max = mean + 0.75 σ = 1685.972
Moon angle =3.75°
Moon phase =91.21%
Azimuth =283.6°
Elevation =36.04°
Hour Angle =04:11:58.63°
Wind speed =18.83 km/hr = 11.7 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mcm052cf (KELT-23 A b, R filter)
UTC 2024-02-21 09:45:43.049
Mean = 1005.947
σ = 15.322
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1004.032
max = mean + 0.75 σ = 1017.438
Moon angle =75.23°
Moon phase =91.22%
Azimuth =24.48°
Elevation =46.09°
Hour Angle =-03:02:19.94°
Wind speed =16.09 km/hr = 10.0 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mcm052d3 (KELT-23 A b, R filter)
UTC 2024-02-21 09:46:37.979
Mean = 1005.916
σ = 15.095
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1004.03
max = mean + 0.75 σ = 1017.237
Moon angle =75.23˚
Moon phase =91.22%
Azimuth =24.42˚
Elevation =46.18˚
Hour Angle =-03:01:24.79˚
Wind speed =19.96 km/hr = 12.4 miles/hr
Wind Direction =180.0˚ E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mcm052d5 (KELT-23 A b, R filter)
UTC 2024-02-21 09:47:32.369
Mean = 1005.882
σ = 15.604
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1003.931
max = mean + 0.75 σ = 1017.584
Moon angle =75.23°
Moon phase =91.22%
Azimuth =24.35°
Elevation =46.25°
Hour Angle =-03:00:30.64°
Wind speed =16.58 km/hr = 10.3 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr0523b2 (YZ Cnc, I filter)
UTC 2024-02-21 09:49:17.699
Mean = 1435.108
σ = 33.324
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1430.942
max = mean + 0.75 σ = 1460.101
Moon angle =3.73°
Moon phase =91.23%
Azimuth =284.14°
Elevation =34.86°
Hour Angle =04:17:40.56°
Wind speed =19.15 km/hr = 11.9 miles/hr
Wind Direction =180.0° E of N
0
500
1000
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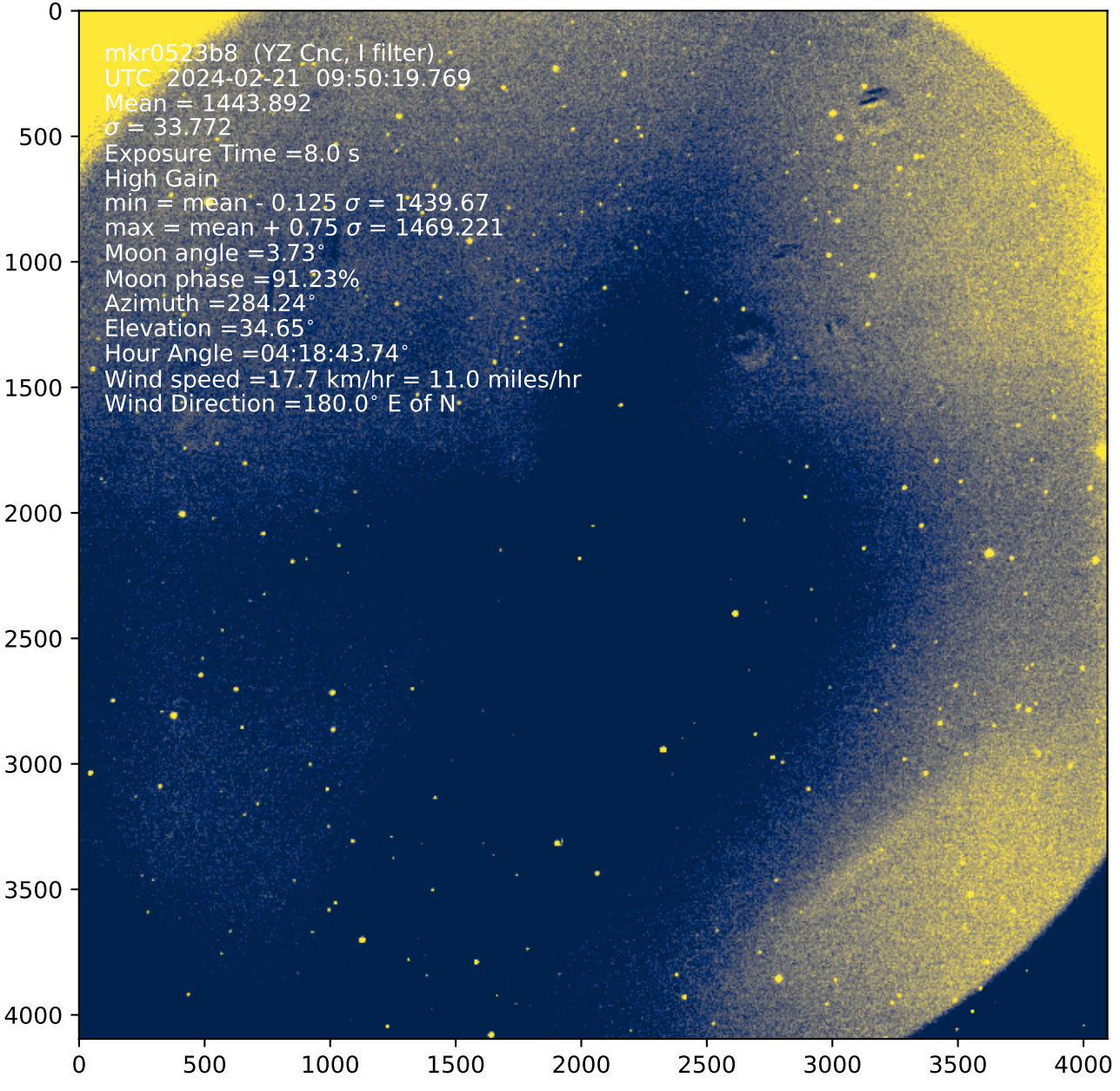
2000
2500
3000
3500
4000


mkr0523b8 (YZ Cnc, I filter)
UTC 2024-02-21 09:50:19.769
Mean = 1443.892
σ = 33.772
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1439.67
max = mean + 0.75 σ = 1469.221
Moon angle =3.73°
Moon phase =91.23%
Azimuth =284.24°
Elevation =34.65°
Hour Angle =04:18:43.74°
Wind speed =17.7 km/hr = 11.0 miles/hr
Wind Direction =180.0° E of N
0
500
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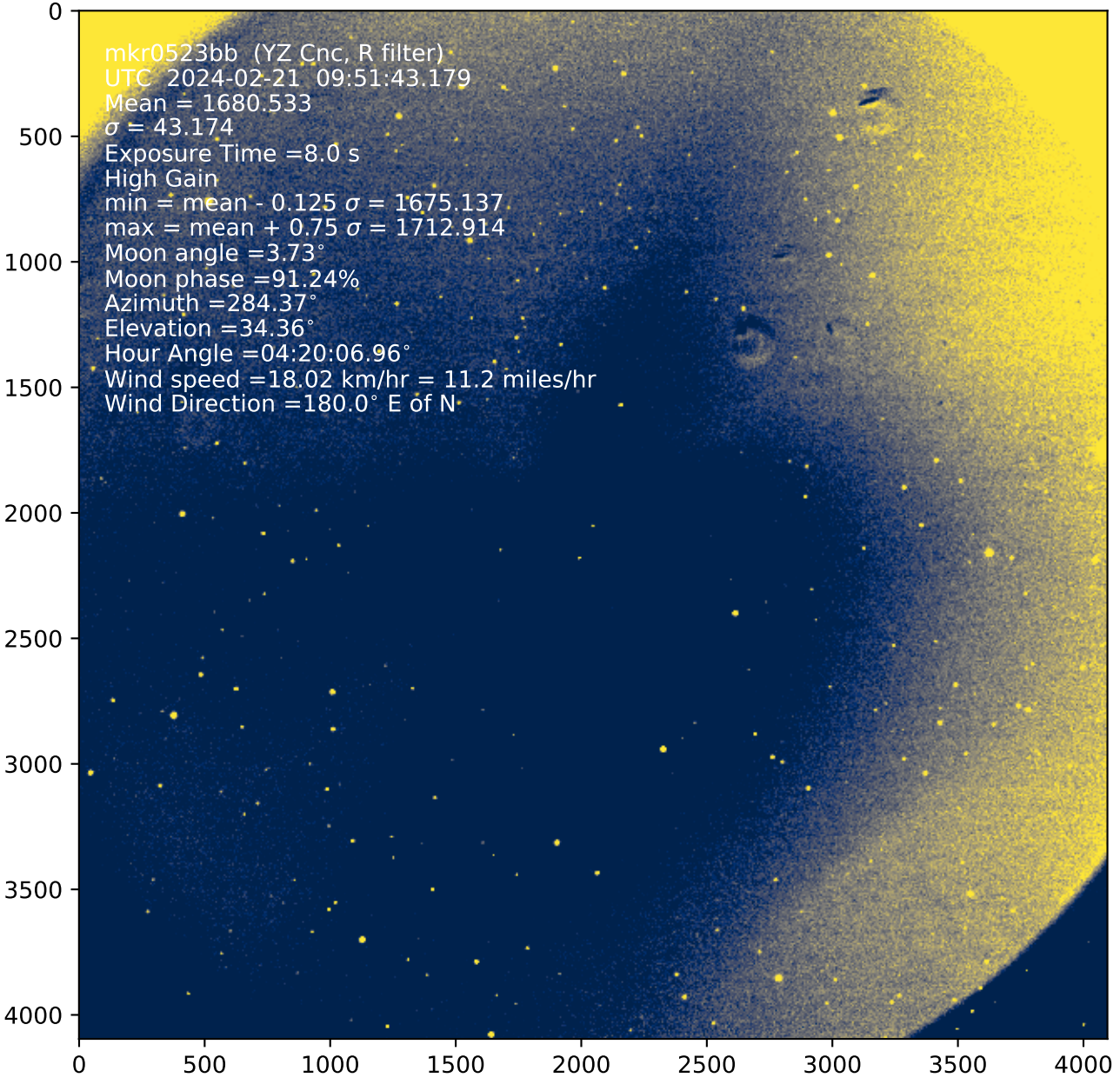
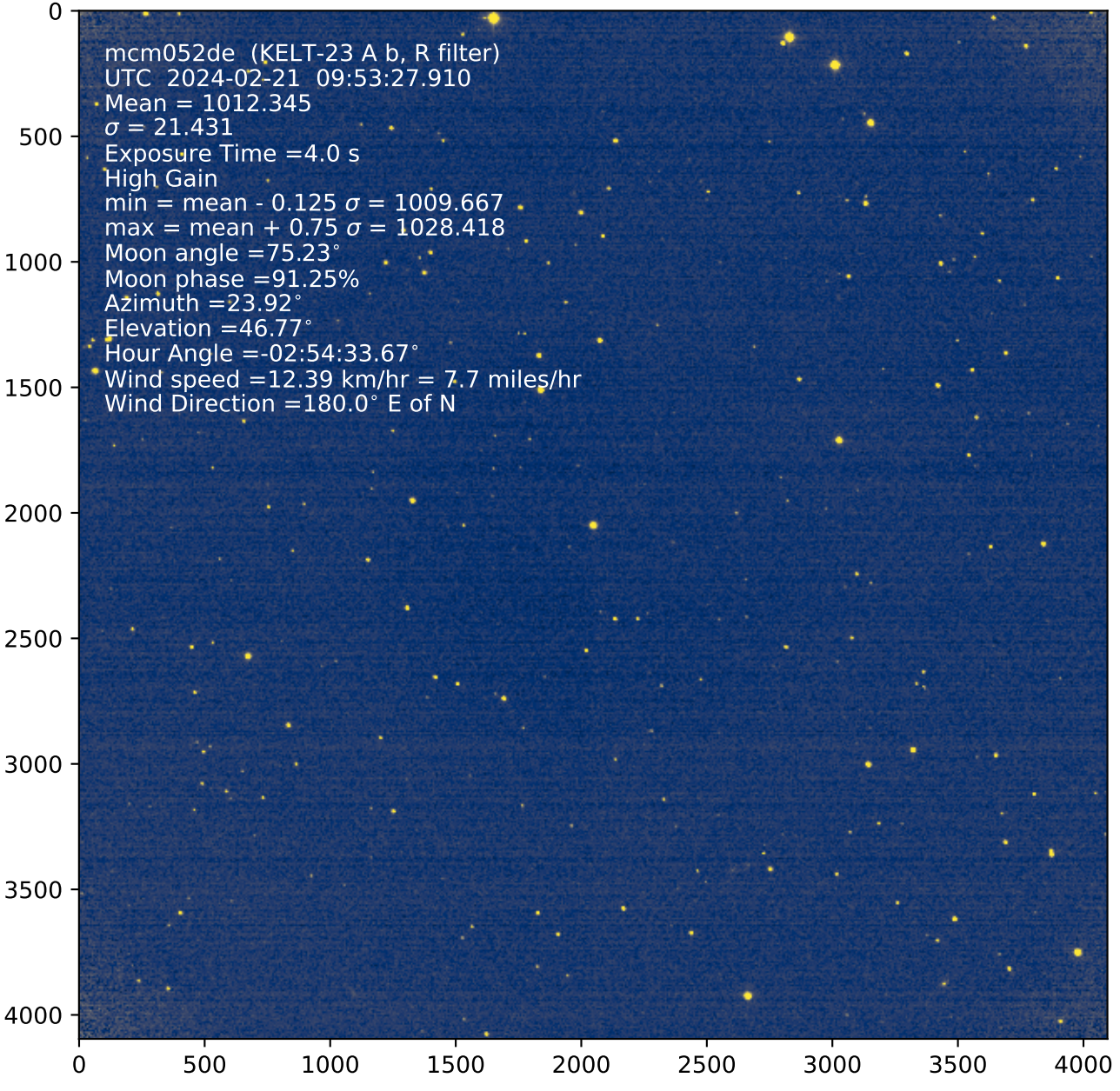
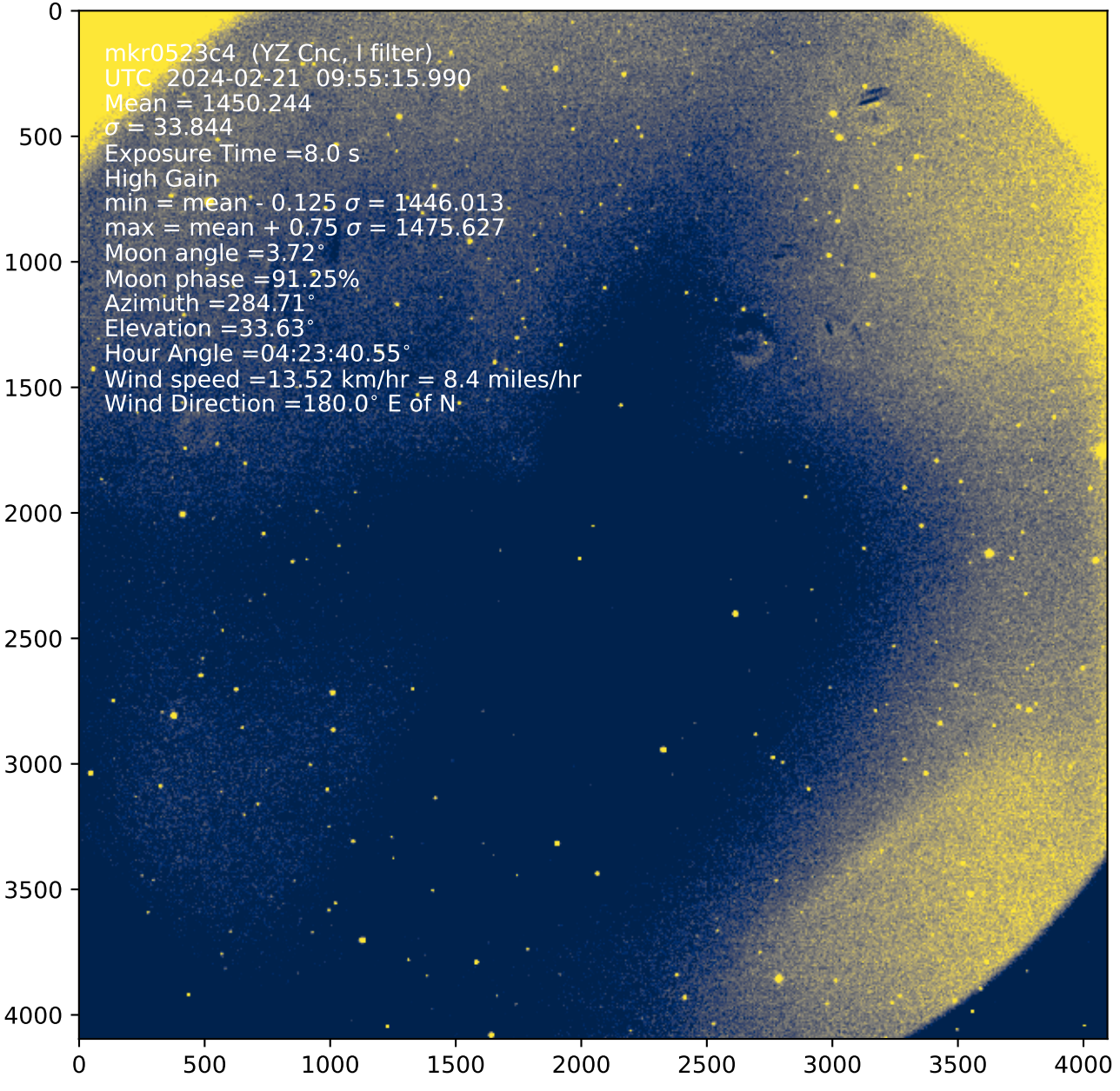
2000
2500
3000
3500
4000


mkr0523bb (YZ Cnc, R filter)
UTC 2024-02-21 09:51:43.179
Mean = 1680.533
σ = 43.174
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1675.137
max = mean + 0.75 σ = 1712.914
Moon angle =3.73°
Moon phase =91.24%
Azimuth =284.37°
Elevation =34.36°
Hour Angle =04:20:06.96°
Wind speed =18.02 km/hr = 11.2 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mcm052de (KELT-23 A b, R filter)
UTC 2024-02-21 09:53:27.910
Mean = 1012.345
σ = 21.431
Exposure Time =4.0 s
High Gain
min = mean - 0.125 σ = 1009.667
max = mean + 0.75 σ = 1028.418
Moon angle =75.23˚
Moon phase =91.25%
Azimuth =23.92˚
Elevation =46.77˚
Hour Angle =-02:54:33.67˚
Wind speed =12.39 km/hr = 7.7 miles/hr
Wind Direction =180.0˚ E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr0523c4 (YZ Cnc, I filter)
UTC 2024-02-21 09:55:15.990
Mean = 1450.244
σ = 33.844
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1446.013
max = mean + 0.75 σ = 1475.627
Moon angle =3.72°
Moon phase =91.25%
Azimuth =284.71°
Elevation =33.63°
Hour Angle =04:23:40.55°
Wind speed =13.52 km/hr = 8.4 miles/hr
Wind Direction =180.0° E of N
0
500
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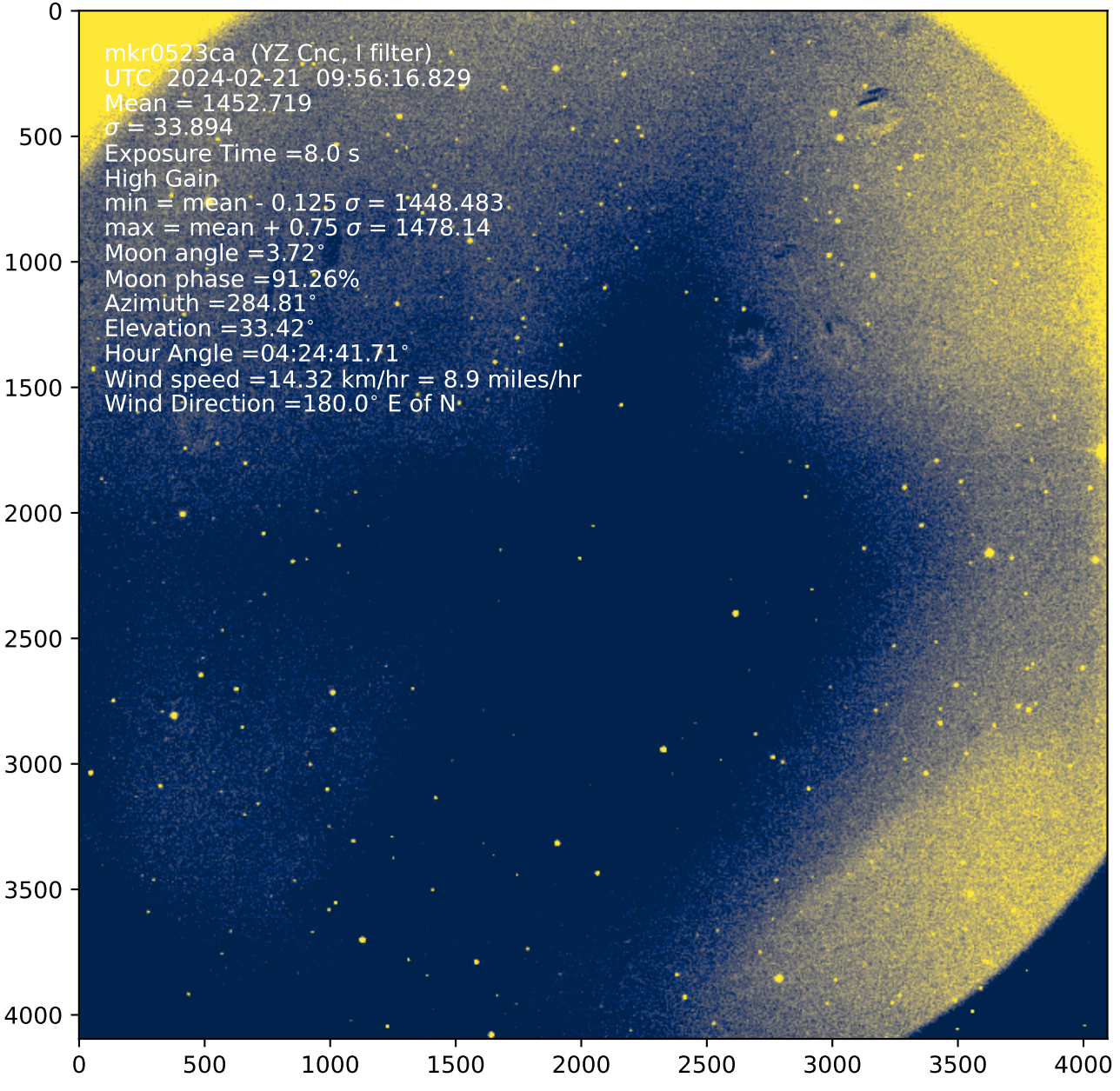
2500
3000
3500
4000


mkr0523ca (YZ Cnc, I filter)
UTC 2024-02-21 09:56:16.829
Mean = 1452.719
σ = 33.894
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1448.483
max = mean + 0.75 σ = 1478.14
Moon angle =3.72°
Moon phase =91.26%
Azimuth =284.81°
Elevation =33.42°
Hour Angle =04:24:41.71°
Wind speed =14.32 km/hr = 8.9 miles/hr
Wind Direction =180.0° E of N
0
500
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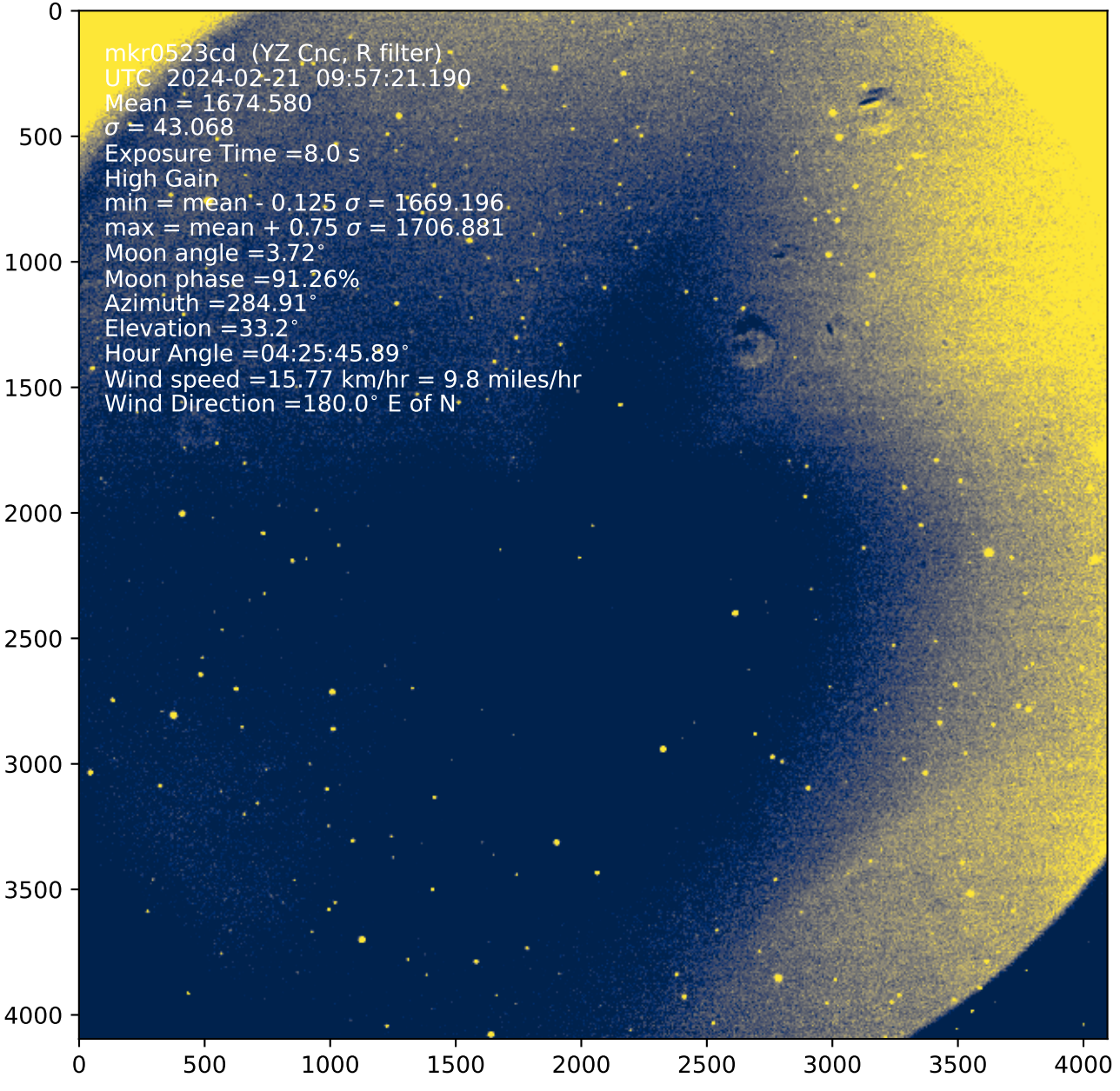
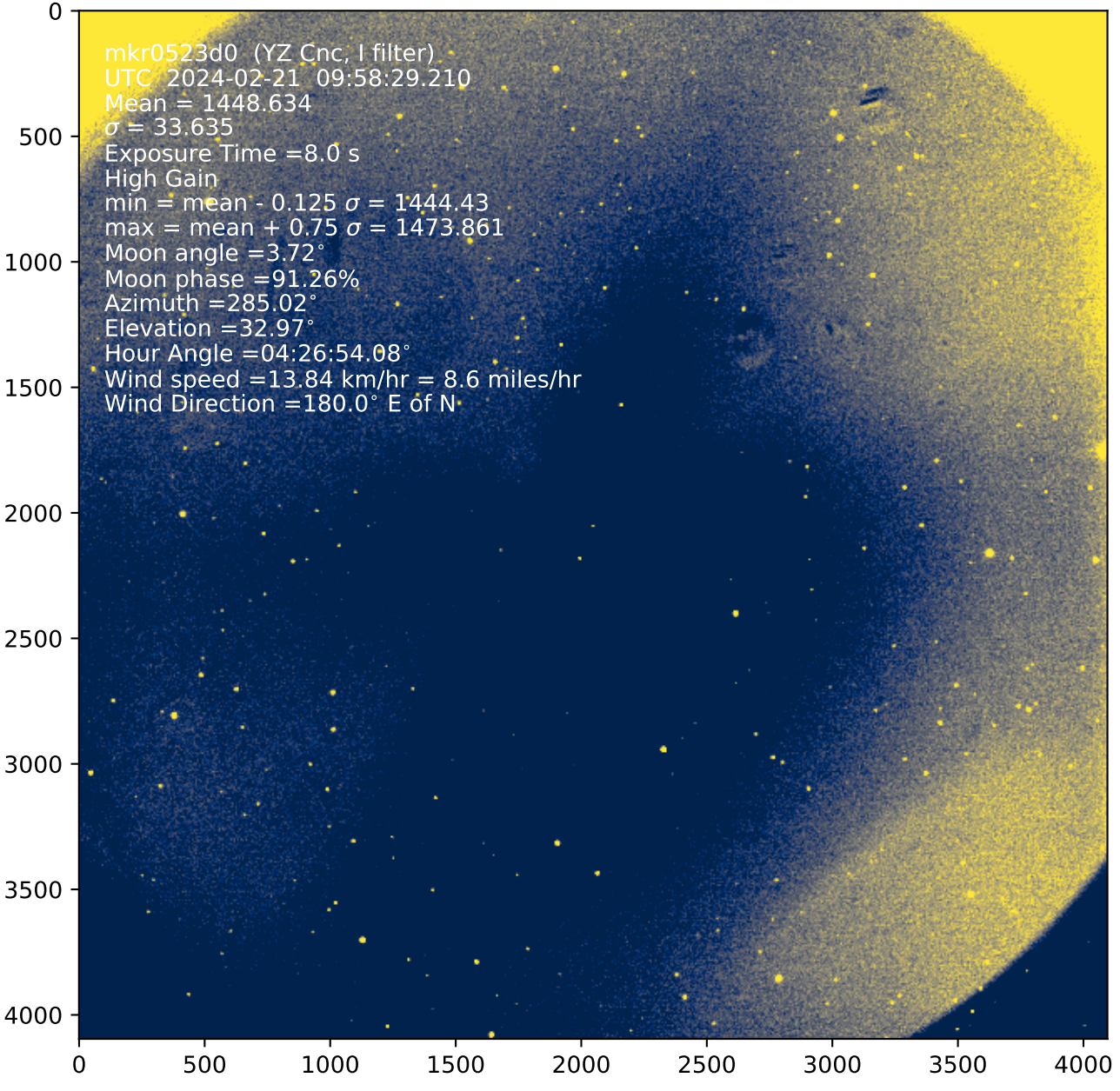
2500
3000
3500
4000


mkr0523cd (YZ Cnc, R filter)
UTC 2024-02-21 09:57:21.190
Mean = 1674.580
σ = 43.068
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1669.196
max = mean + 0.75 σ = 1706.881
Moon angle =3.72°
Moon phase =91.26%
Azimuth =284.91°
Elevation =33.2°
Hour Angle =04:25:45.89°
Wind speed =15.77 km/hr = 9.8 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr0523d0 (YZ Cnc, I filter)
UTC 2024-02-21 09:58:29.210
Mean = 1448.634
σ = 33.635
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1444.43
max = mean + 0.75 σ = 1473.861
Moon angle =3.72°
Moon phase =91.26%
Azimuth =285.02°
Elevation =32.97°
Hour Angle =04:26:54.08°
Wind speed =13.84 km/hr = 8.6 miles/hr
Wind Direction =180.0° E of N
0
500
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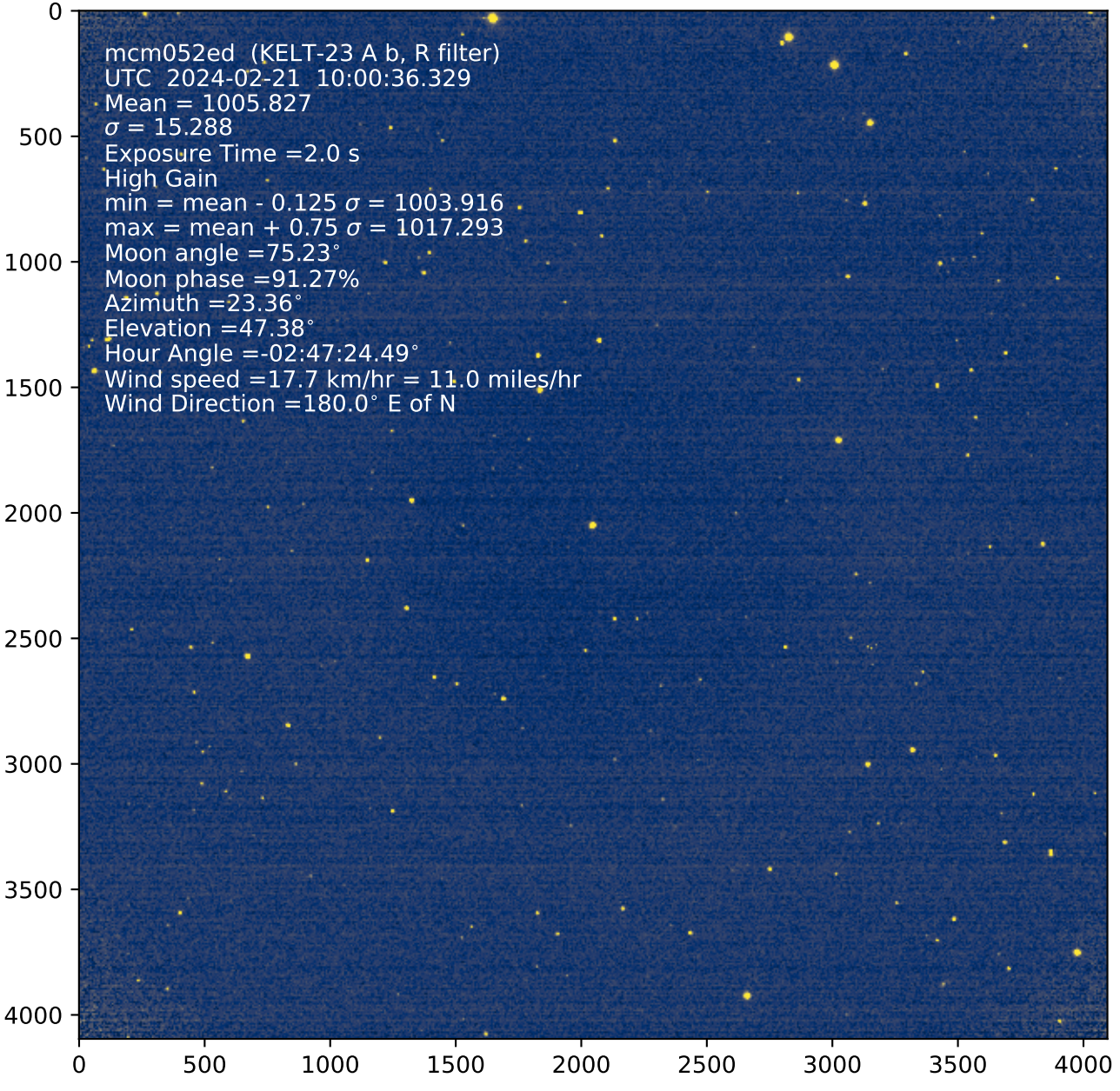
4000


mcm052ed (KELT-23 A b, R filter)
UTC 2024-02-21 10:00:36.329
Mean = 1005.827
σ = 15.288
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1003.916
max = mean + 0.75 σ = 1017.293
Moon angle =75.23°
Moon phase =91.27%
Azimuth =23.36°
Elevation =47.38°
Hour Angle =-02:47:24.49°
Wind speed =17.7 km/hr = 11.0 miles/hr
Wind Direction =180.0° E of N
0
500
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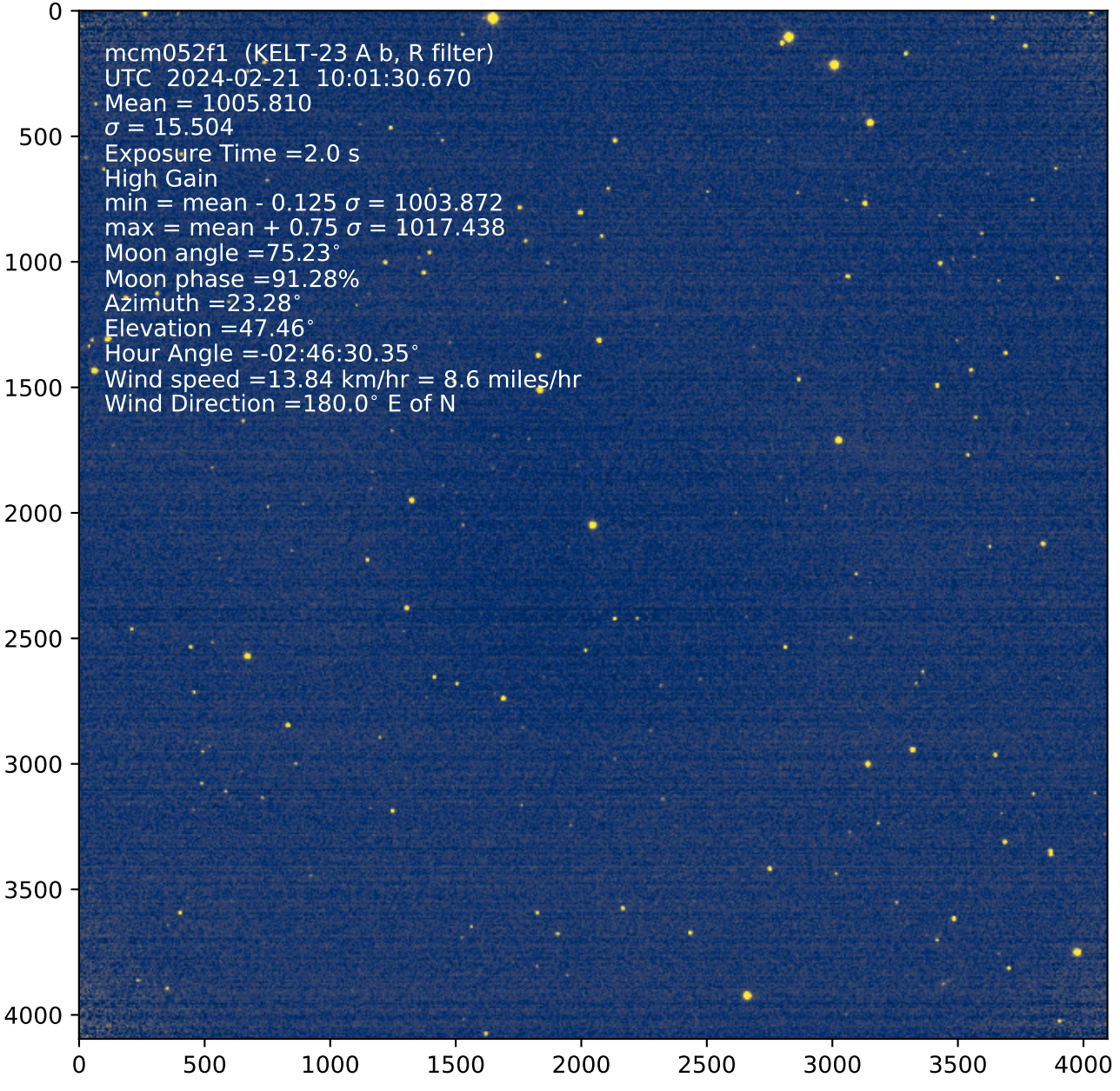
1500
2000
2500
3000
3500
4000


mcm052f1 (KELT-23 A b, R filter)
UTC 2024-02-21 10:01:30.670
Mean = 1005.810
σ = 15.504
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1003.872
max = mean + 0.75 σ = 1017.438
Moon angle =75.23°
Moon phase =91.28%
Azimuth =23.28°
Elevation =47.46°
Hour Angle =-02:46:30.35°
Wind speed =13.84 km/hr = 8.6 miles/hr
Wind Direction =180.0° E of N
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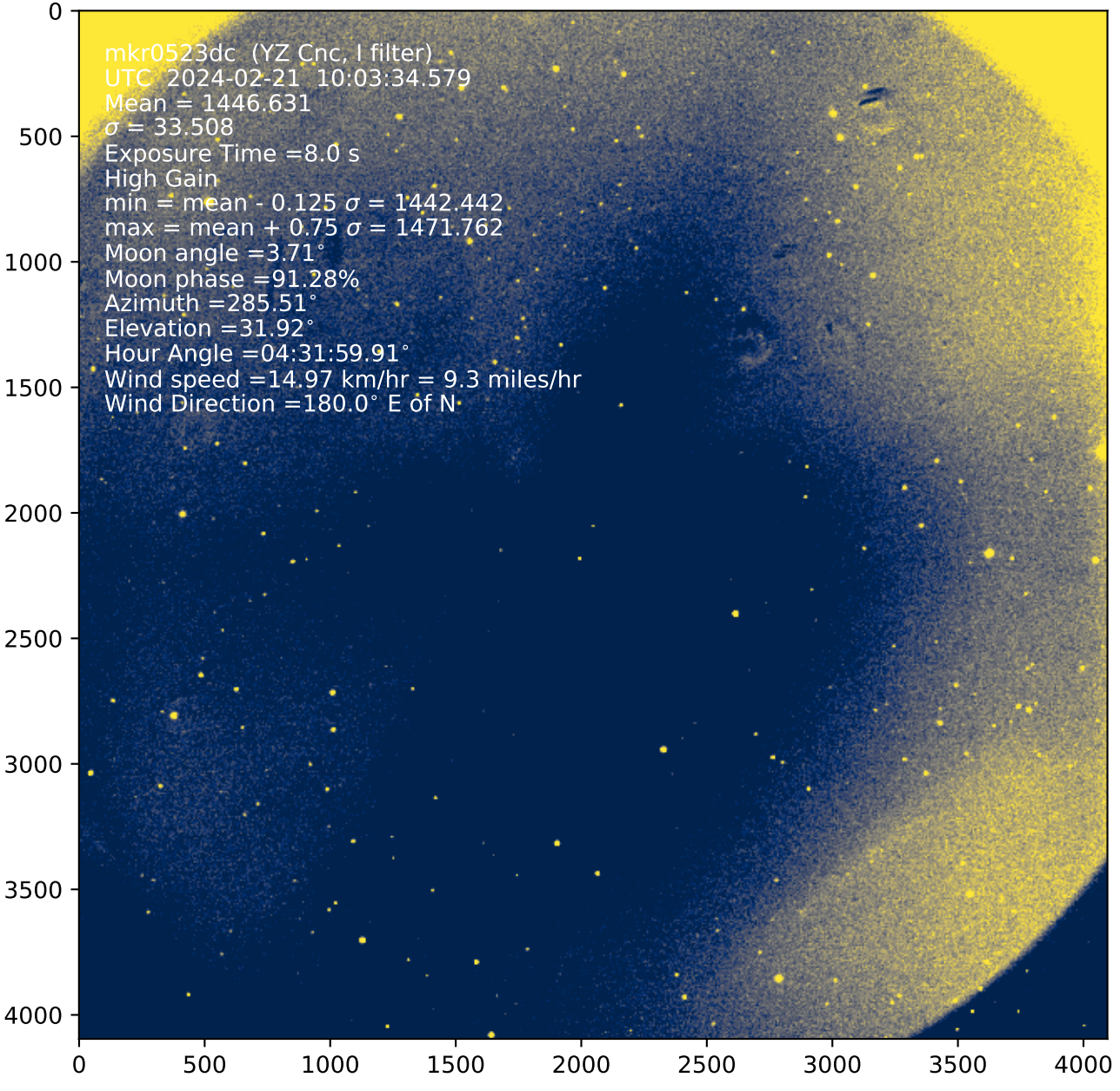
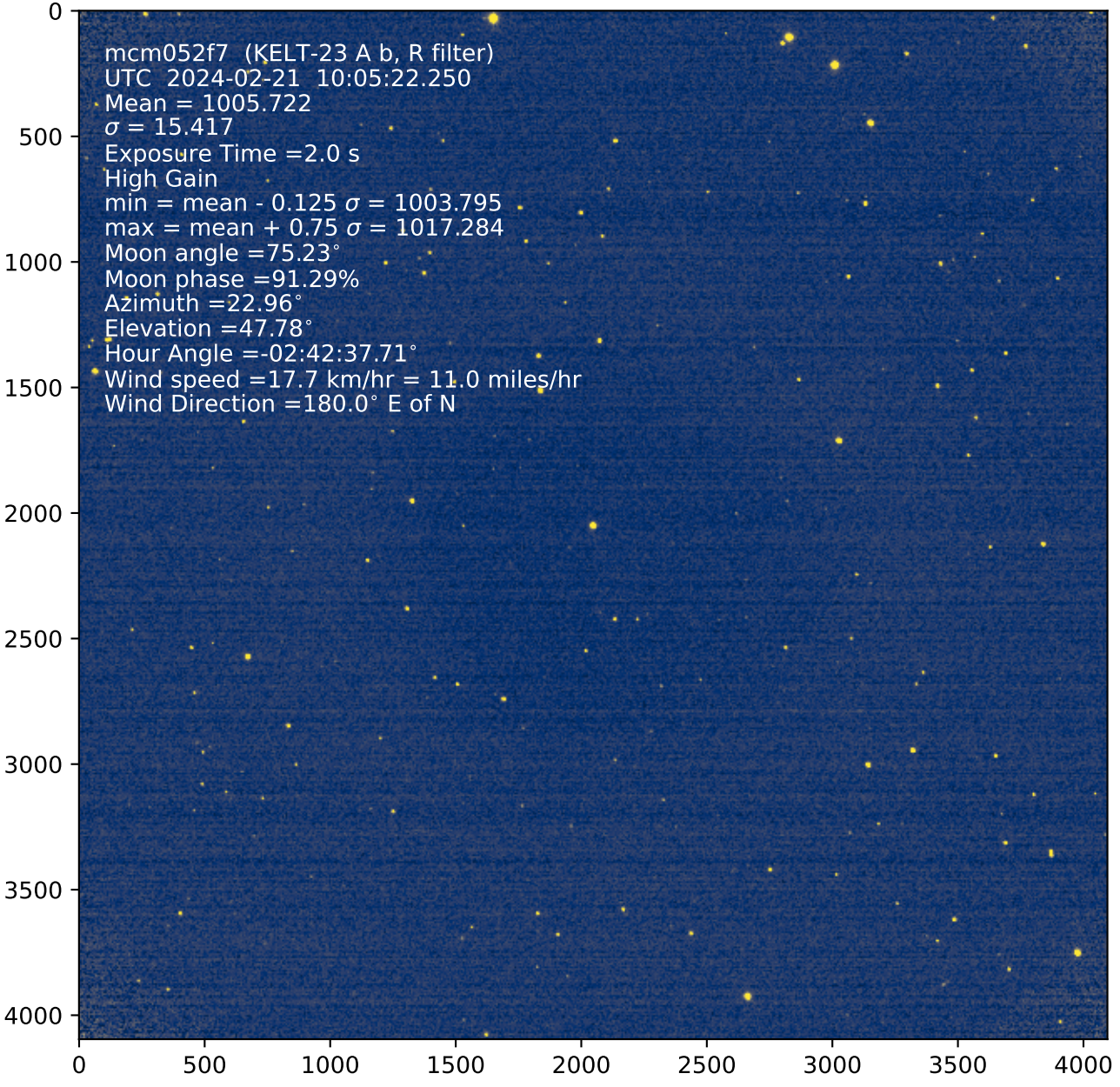
3500
4000


mkr0523dc (YZ Cnc, I filter)
UTC 2024-02-21 10:03:34.579
Mean = 1446.631
σ = 33.508
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1442.442
max = mean + 0.75 σ = 1471.762
Moon angle =3.71°
Moon phase =91.28%
Azimuth =285.51°
Elevation =31.92°
Hour Angle =04:31:59.91°
Wind speed =14.97 km/hr = 9.3 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mcm052f7 (KELT-23 A b, R filter)
UTC 2024-02-21 10:05:22.250
Mean = 1005.722
σ = 15.417
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1003.795
max = mean + 0.75 σ = 1017.284
Moon angle =75.23°
Moon phase =91.29%
Azimuth =22.96°
Elevation =47.78°
Hour Angle =-02:42:37.71°
Wind speed =17.7 km/hr = 11.0 miles/hr
Wind Direction =180.0° E of N
0
500
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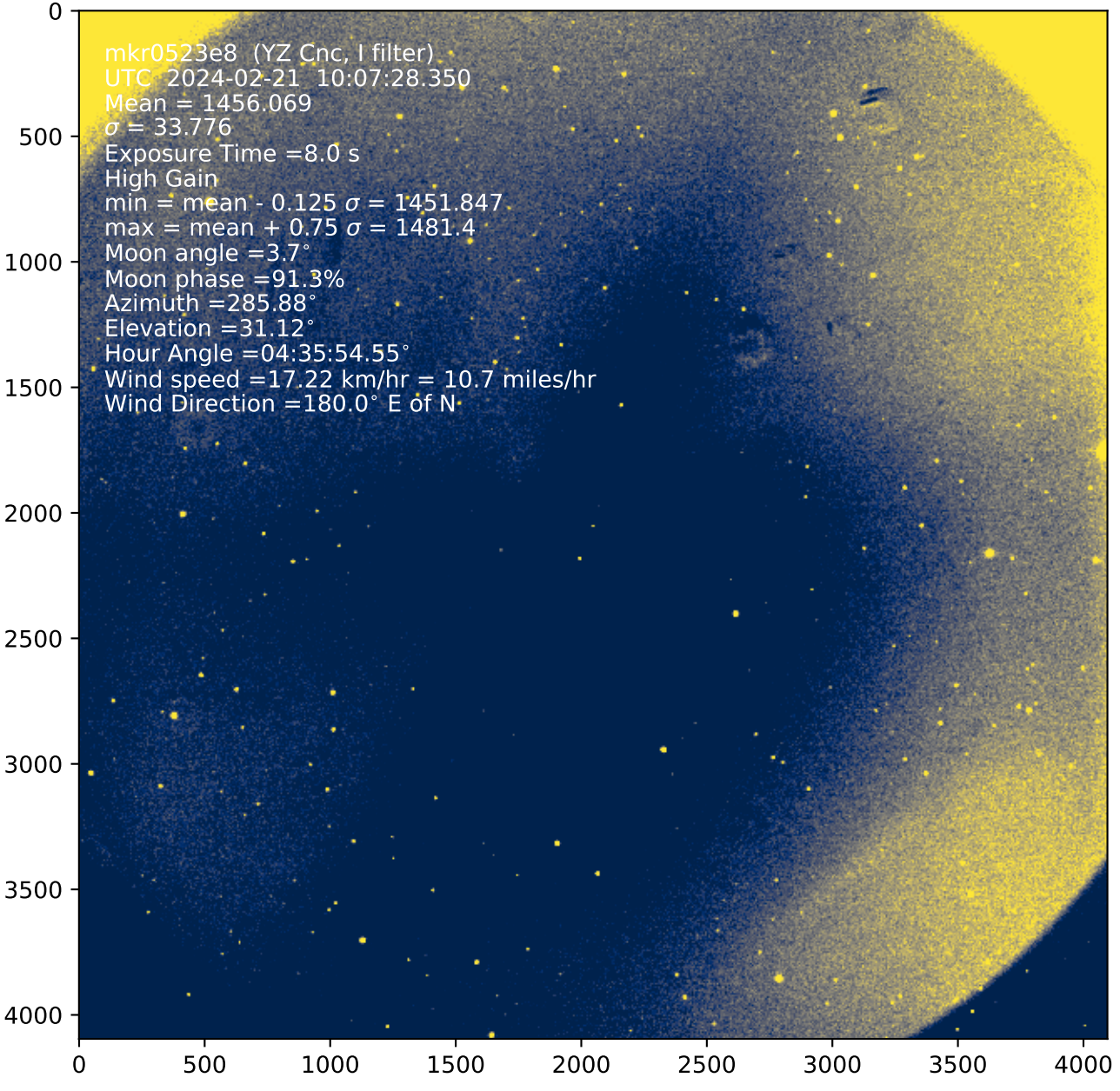
2000
2500
3000
3500
4000


mkr0523e8 (YZ Cnc, I filter)
UTC 2024-02-21 10:07:28.350
Mean = 1456.069
σ = 33.776
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1451.847
max = mean + 0.75 σ = 1481.4
Moon angle =3.7°
Moon phase =91.3%
Azimuth =285.88°
Elevation =31.12°
Hour Angle =04:35:54.55°
Wind speed =17.22 km/hr = 10.7 miles/hr
Wind Direction =180.0° E of N
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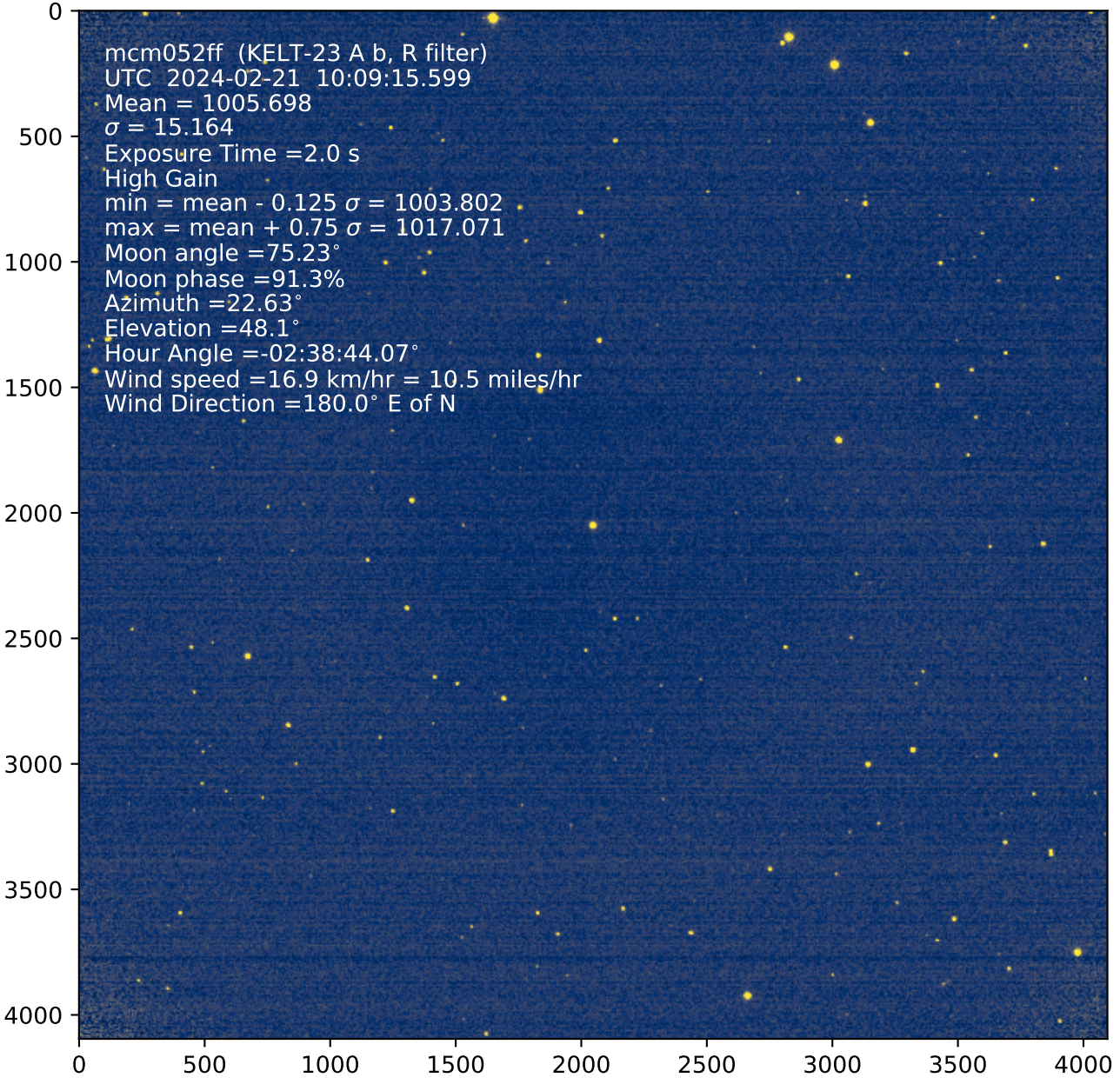
1500
2000
2500
3000
3500
4000


mcm052ff (KELT-23 A b, R filter)
UTC 2024-02-21 10:09:15.599
Mean = 1005.698
σ = 15.164
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1003.802
max = mean + 0.75 σ = 1017.071
Moon angle =75.23°
Moon phase =91.3%
Azimuth =22.63°
Elevation =48.1°
Hour Angle =-02:38:44.07°
Wind speed =16.9 km/hr = 10.5 miles/hr
Wind Direction =180.0° E of N
0
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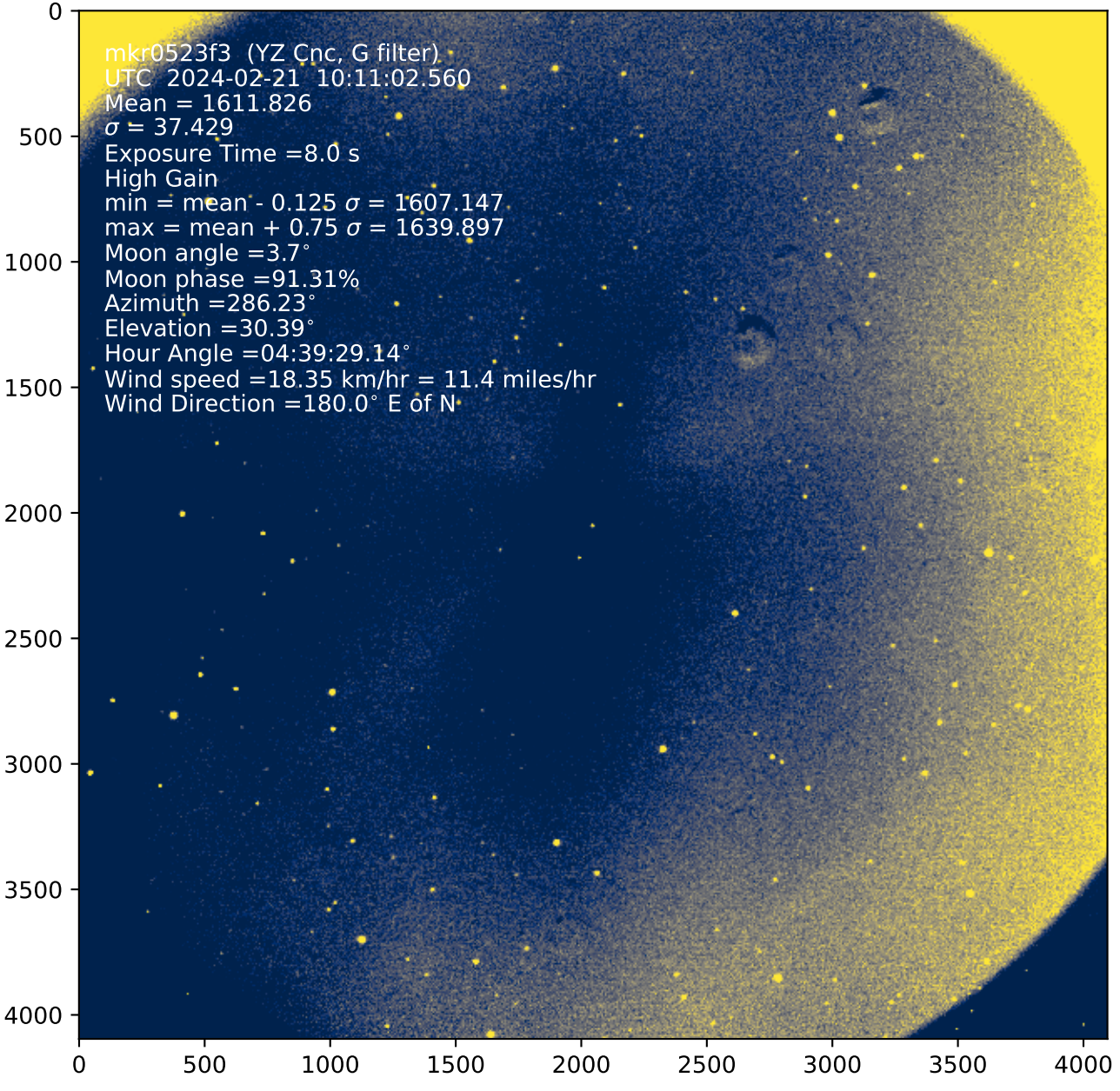
2000
2500
3000
3500
4000


mkr0523f3 (YZ Cnc, G filter)
UTC 2024-02-21 10:11:02.560
Mean = 1611.826
σ = 37.429
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1607.147
max = mean + 0.75 σ = 1639.897
Moon angle =3.7°
Moon phase =91.31%
Azimuth =286.23°
Elevation =30.39°
Hour Angle =04:39:29.14°
Wind speed =18.35 km/hr = 11.4 miles/hr
Wind Direction =180.0° E of N
0
500
1000
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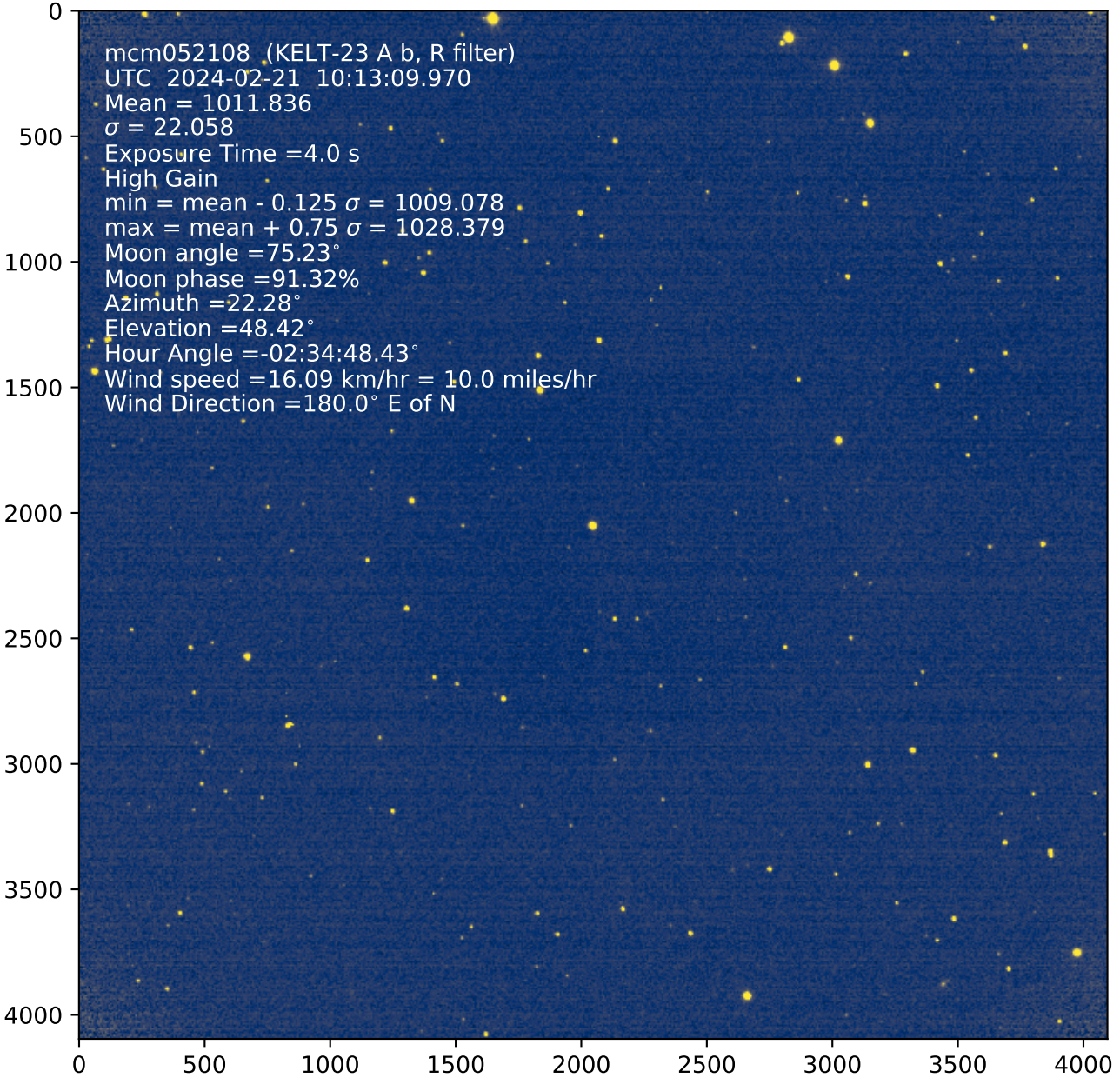
2000
2500
3000
3500
4000


mcm052108 (KELT-23 A b, R filter)
UTC 2024-02-21 10:13:09.970
Mean = 1011.836
σ = 22.058
Exposure Time =4.0 s
High Gain
min = mean - 0.125 σ = 1009.078
max = mean + 0.75 σ = 1028.379
Moon angle =75.23°
Moon phase =91.32%
Azimuth =22.28°
Elevation =48.42°
Hour Angle =-02:34:48.43°
Wind speed =16.09 km/hr = 10.0 miles/hr
Wind Direction =180.0° E of N
0
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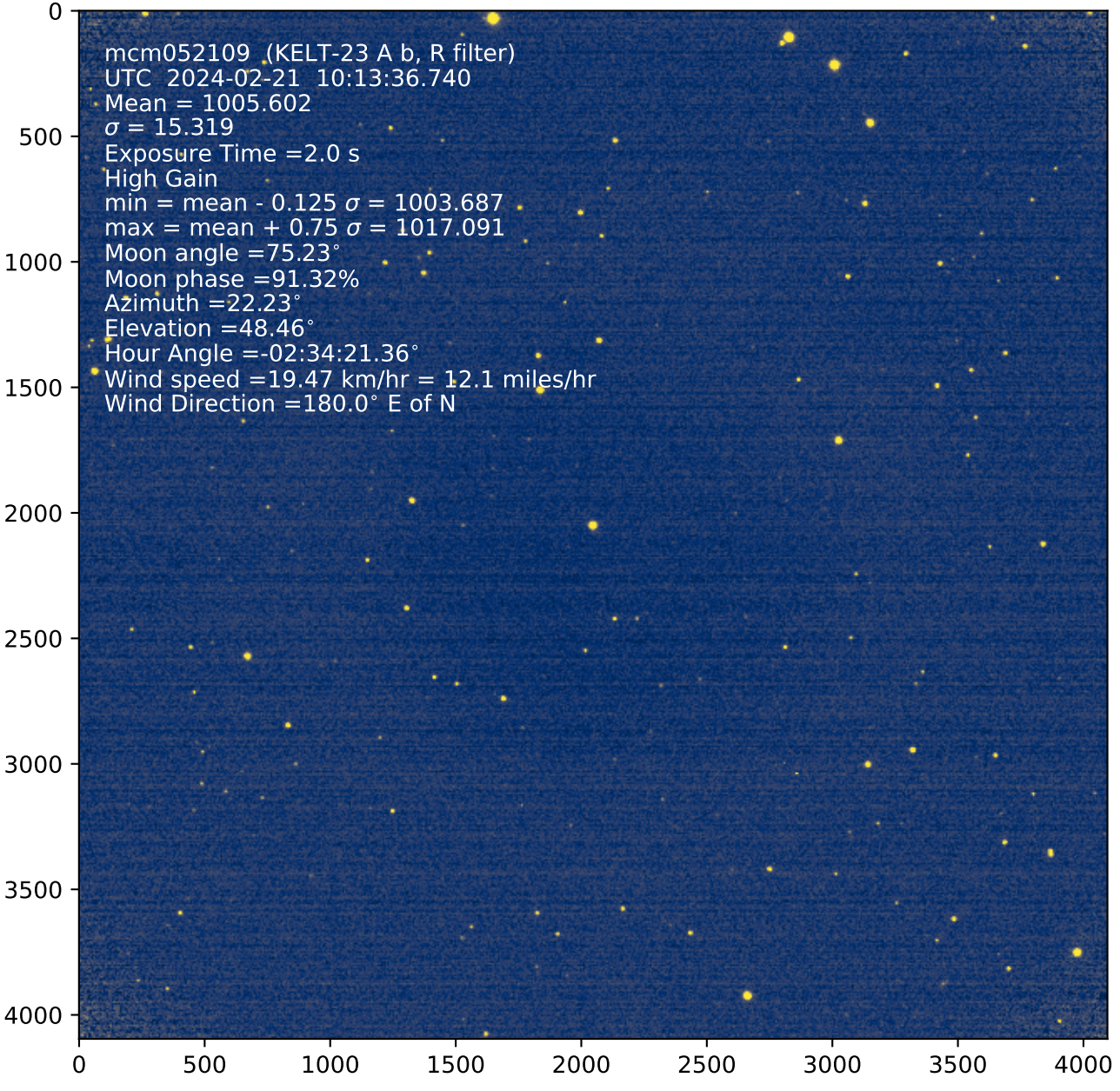
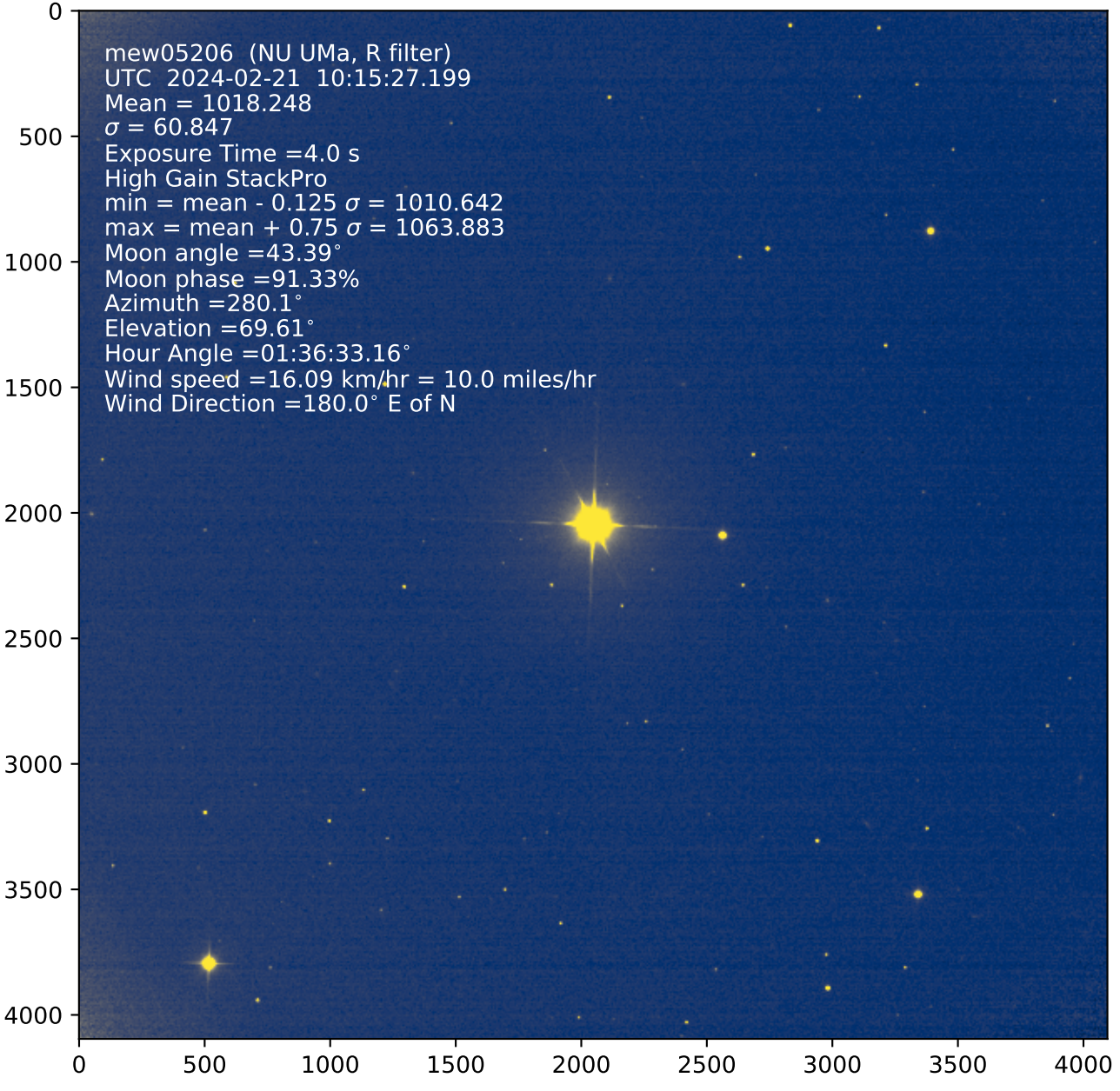
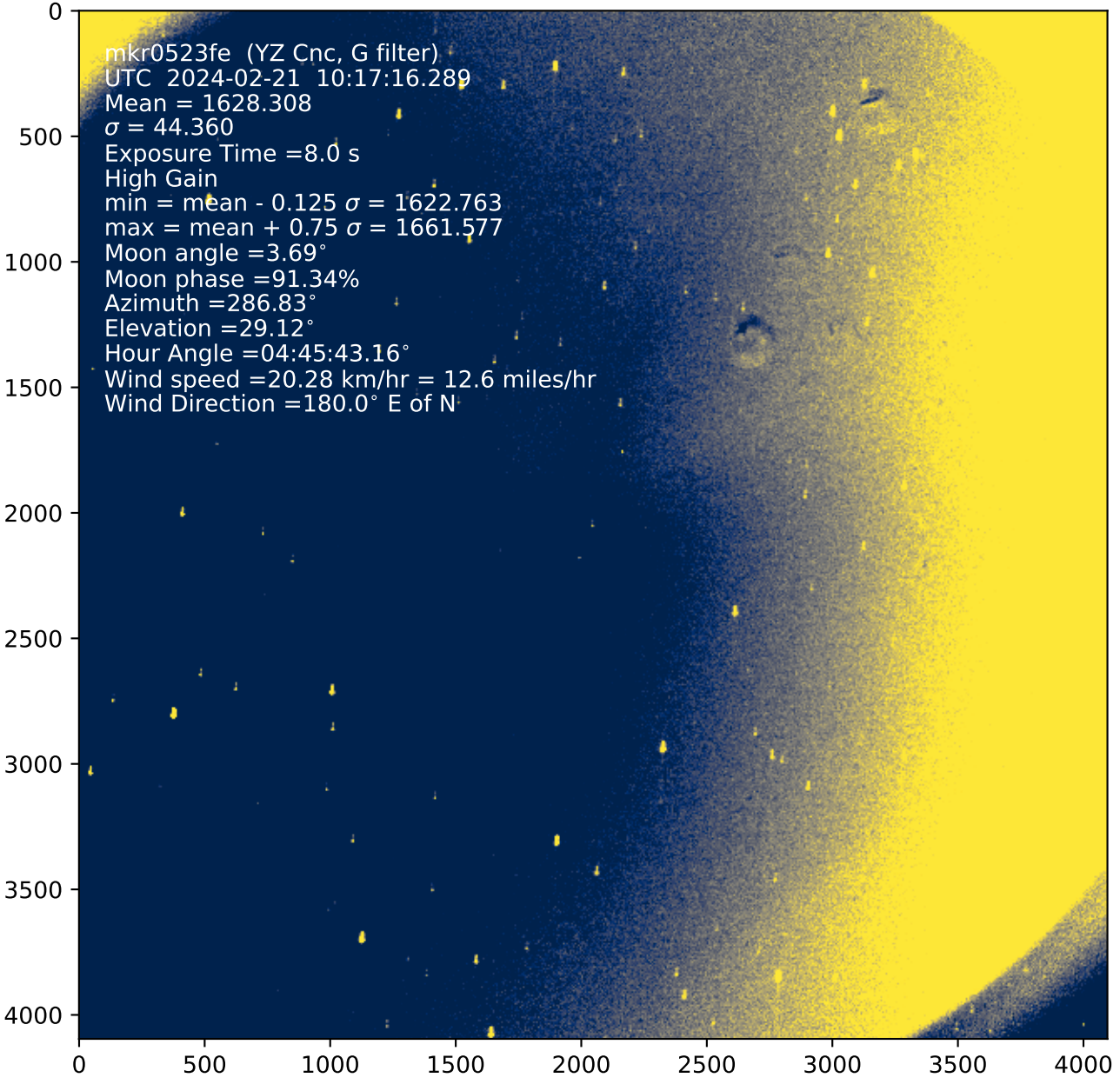
2000
2500
3000
3500
4000


mcm052109 (KELT-23 A b, R filter)
UTC 2024-02-21 10:13:36.740
Mean = 1005.602
σ = 15.319
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1003.687
max = mean + 0.75 σ = 1017.091
Moon angle =75.23˚
Moon phase =91.32%
Azimuth =22.23˚
Elevation =48.46˚
Hour Angle =-02:34:21.36˚
Wind speed =19.47 km/hr = 12.1 miles/hr
Wind Direction =180.0˚ E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mew05206 (NU UMa, R filter)
UTC 2024-02-21 10:15:27.199
Mean = 1018.248
σ = 60.847
Exposure Time =4.0 s
High Gain StackPro
min = mean - 0.125 σ = 1010.642
max = mean + 0.75 σ = 1063.883
Moon angle =43.39°
Moon phase =91.33%
Azimuth =280.1°
Elevation =69.61°
Hour Angle =01:36:33.16°
Wind speed =16.09 km/hr = 10.0 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr0523fe (YZ Cnc, G filter)
UTC 2024-02-21 10:17:16.289
Mean = 1628.308
σ = 44.360
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1622.763
max = mean + 0.75 σ = 1661.577
Moon angle =3.69°
Moon phase =91.34%
Azimuth =286.83°
Elevation =29.12°
Hour Angle =04:45:43.16°
Wind speed =20.28 km/hr = 12.6 miles/hr
Wind Direction =180.0° E of N
0
500
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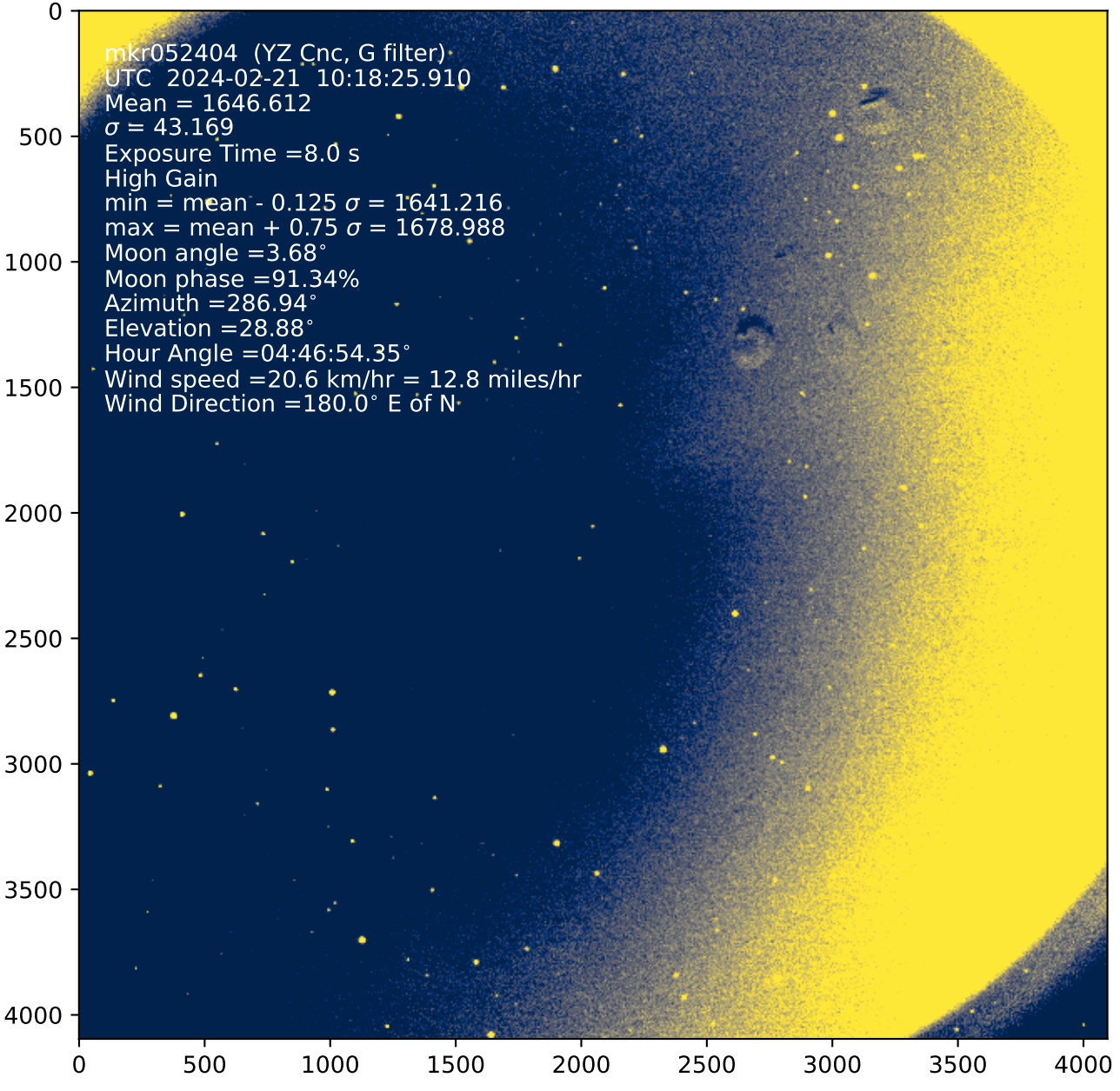
1500
2000
2500
3000
3500
4000


mkr052404 (YZ Cnc, G filter)
UTC 2024-02-21 10:18:25.910
Mean = 1646.612
σ = 43.169
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1641.216
max = mean + 0.75 σ = 1678.988
Moon angle =3.68°
Moon phase =91.34%
Azimuth =286.94°
Elevation =28.88°
Hour Angle =04:46:54.35°
Wind speed =20.6 km/hr = 12.8 miles/hr
Wind Direction =180.0° E of N
0
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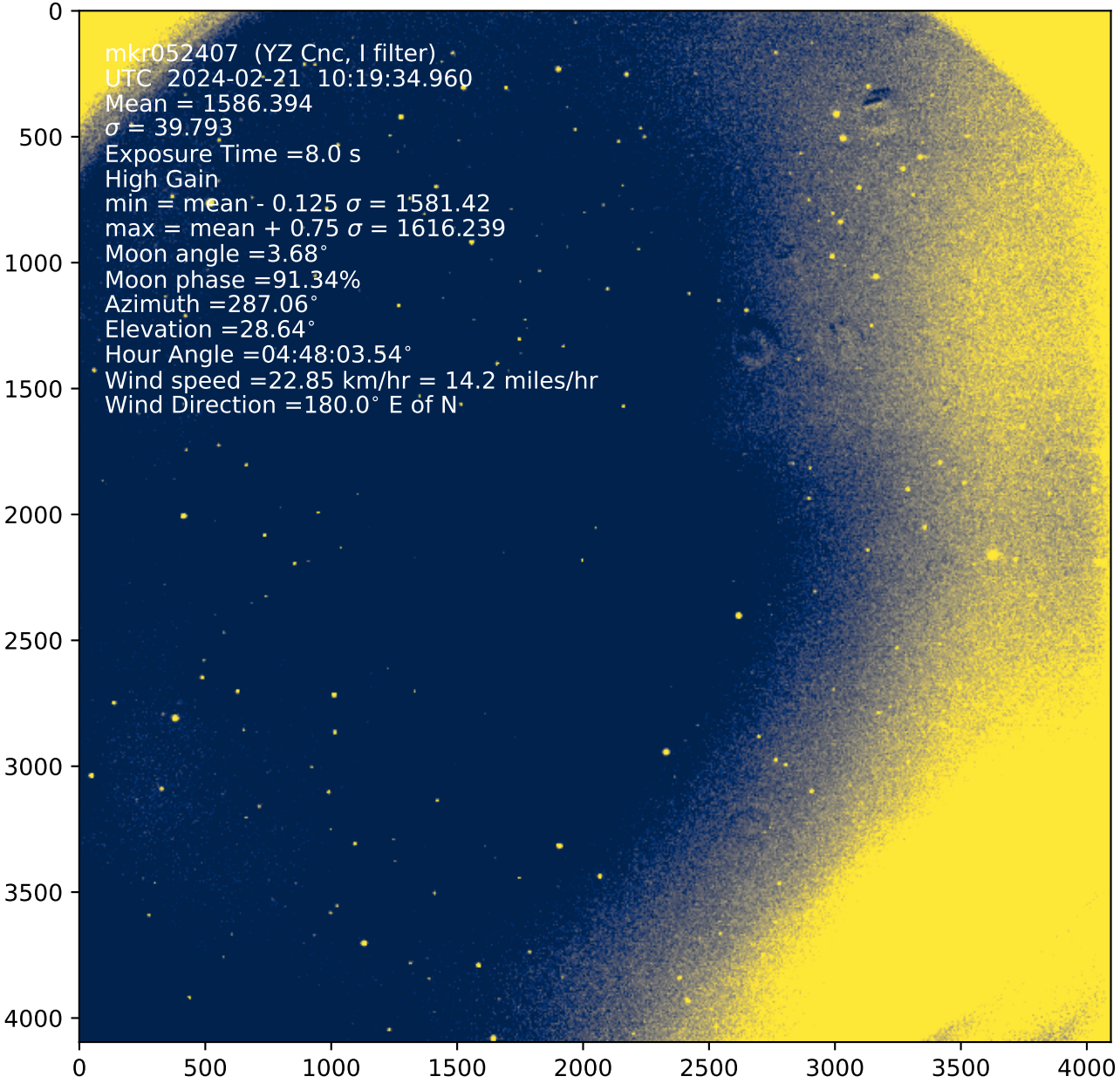
2500
3000
3500
4000


mkr052407 (YZ Cnc, I filter)
UTC 2024-02-21 10:19:34.960
Mean = 1586.394
σ = 39.793
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1581.42
max = mean + 0.75 σ = 1616.239
Moon angle =3.68˚
Moon phase =91.34%
Azimuth =287.06˚
Elevation =28.64˚
Hour Angle =04:48:03.54˚
Wind speed =22.85 km/hr = 14.2 miles/hr
Wind Direction =180.0˚ E of N
0
500
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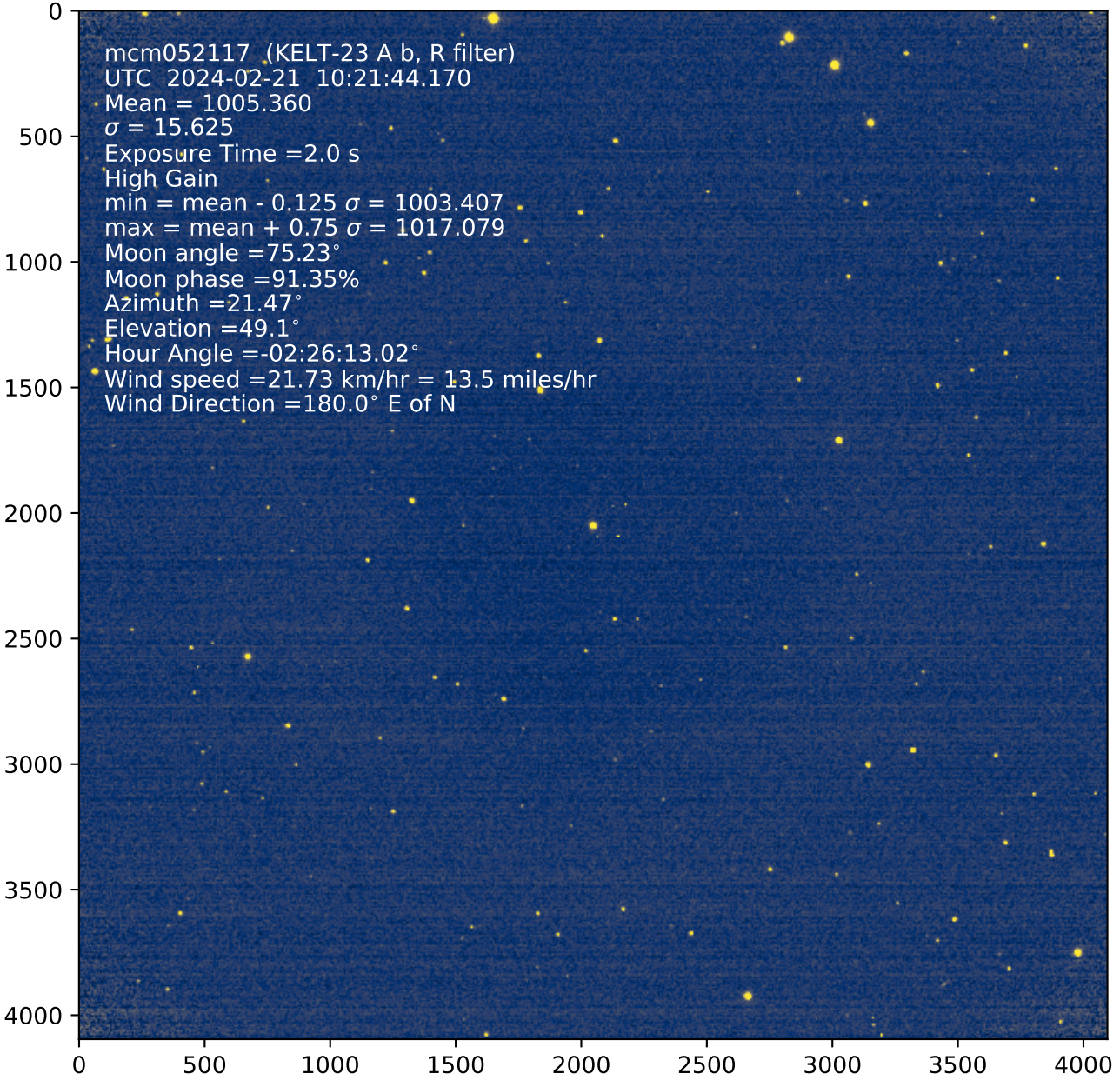
2000
2500
3000
3500
4000


mcm052117 (KELT-23 A b, R filter)
UTC 2024-02-21 10:21:44.170
Mean = 1005.360
σ = 15.625
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1003.407
max = mean + 0.75 σ = 1017.079
Moon angle =75.23°
Moon phase =91.35%
Azimuth =21.47°
Elevation =49.1°
Hour Angle =-02:26:13.02°
Wind speed =21.73 km/hr = 13.5 miles/hr
Wind Direction =180.0° E of N
0
500
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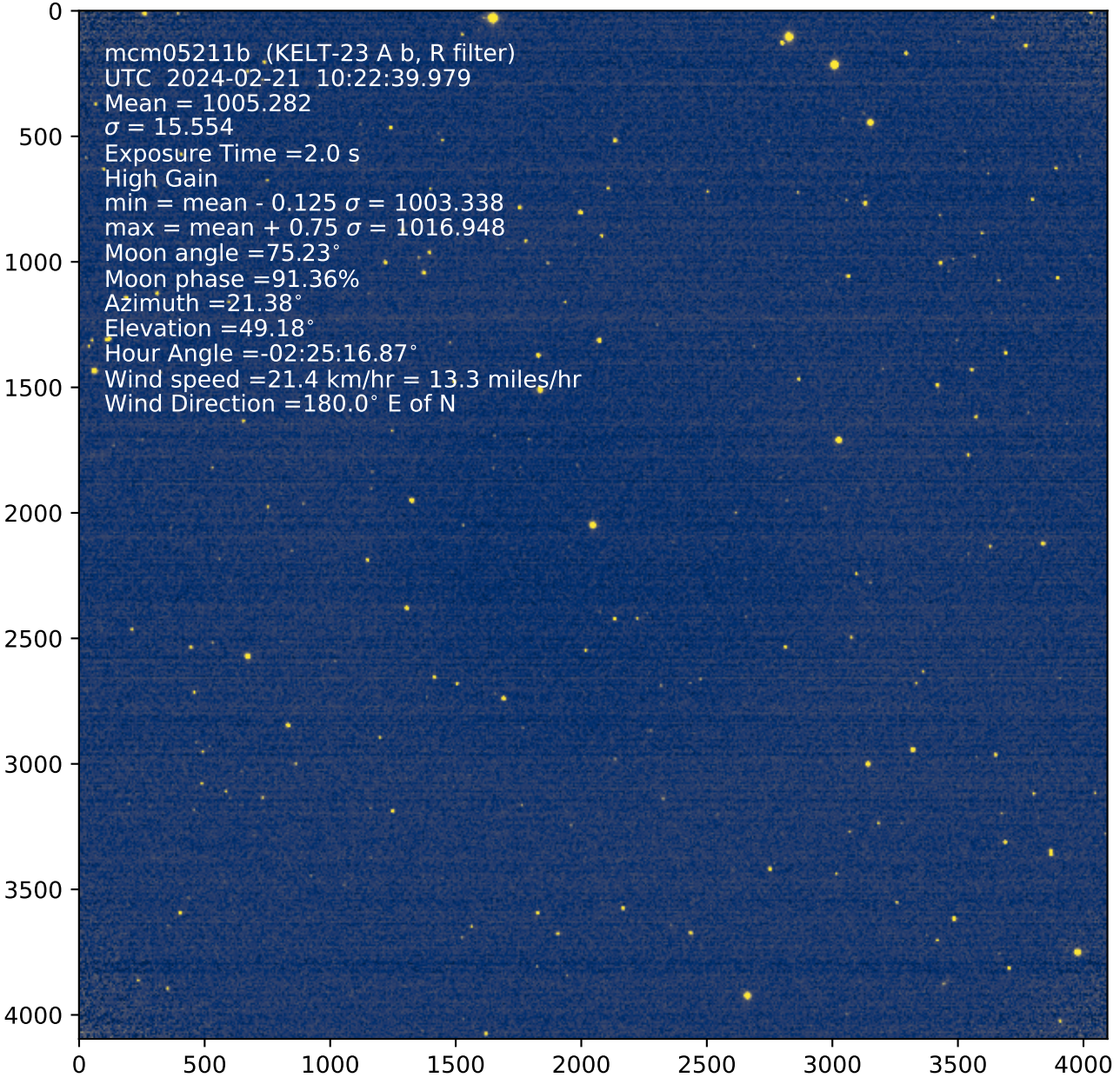
2500
3000
3500
4000


mcm05211b (KELT-23 A b, R filter)
UTC 2024-02-21 10:22:39.979
Mean = 1005.282
σ = 15.554
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1003.338
max = mean + 0.75 σ = 1016.948
Moon angle =75.23°
Moon phase =91.36%
Azimuth =21.38°
Elevation =49.18°
Hour Angle =-02:25:16.87°
Wind speed =21.4 km/hr = 13.3 miles/hr
Wind Direction =180.0° E of N
0
500
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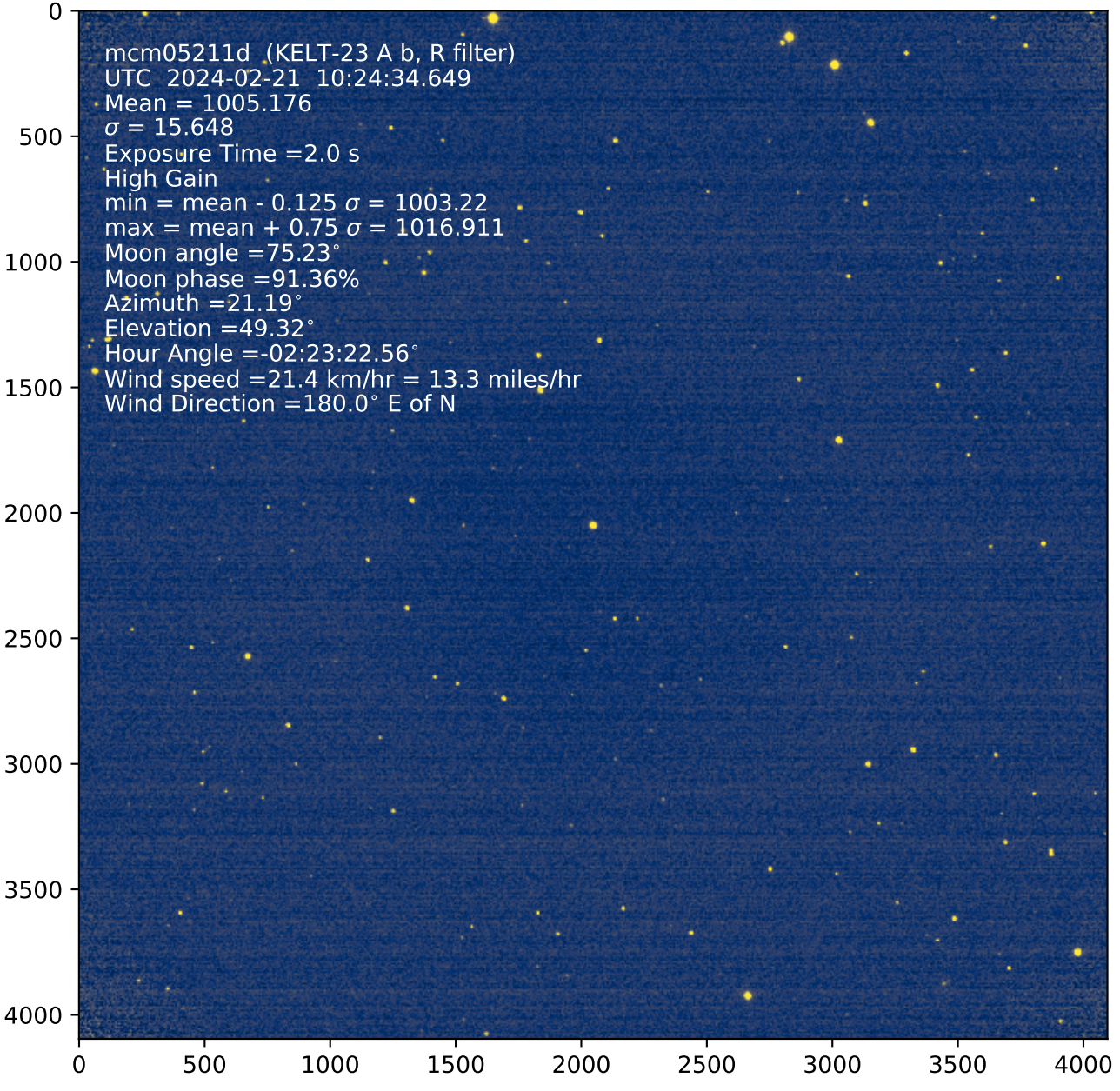
2000
2500
3000
3500
4000


mcm05211d (KELT-23 A b, R filter)
UTC 2024-02-21 10:24:34.649
Mean = 1005.176
σ = 15.648
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1003.22
max = mean + 0.75 σ = 1016.911
Moon angle =75.23°
Moon phase =91.36%
Azimuth =21.19°
Elevation =49.32°
Hour Angle =-02:23:22.56°
Wind speed =21.4 km/hr = 13.3 miles/hr
Wind Direction =180.0° E of N
0
500
1000
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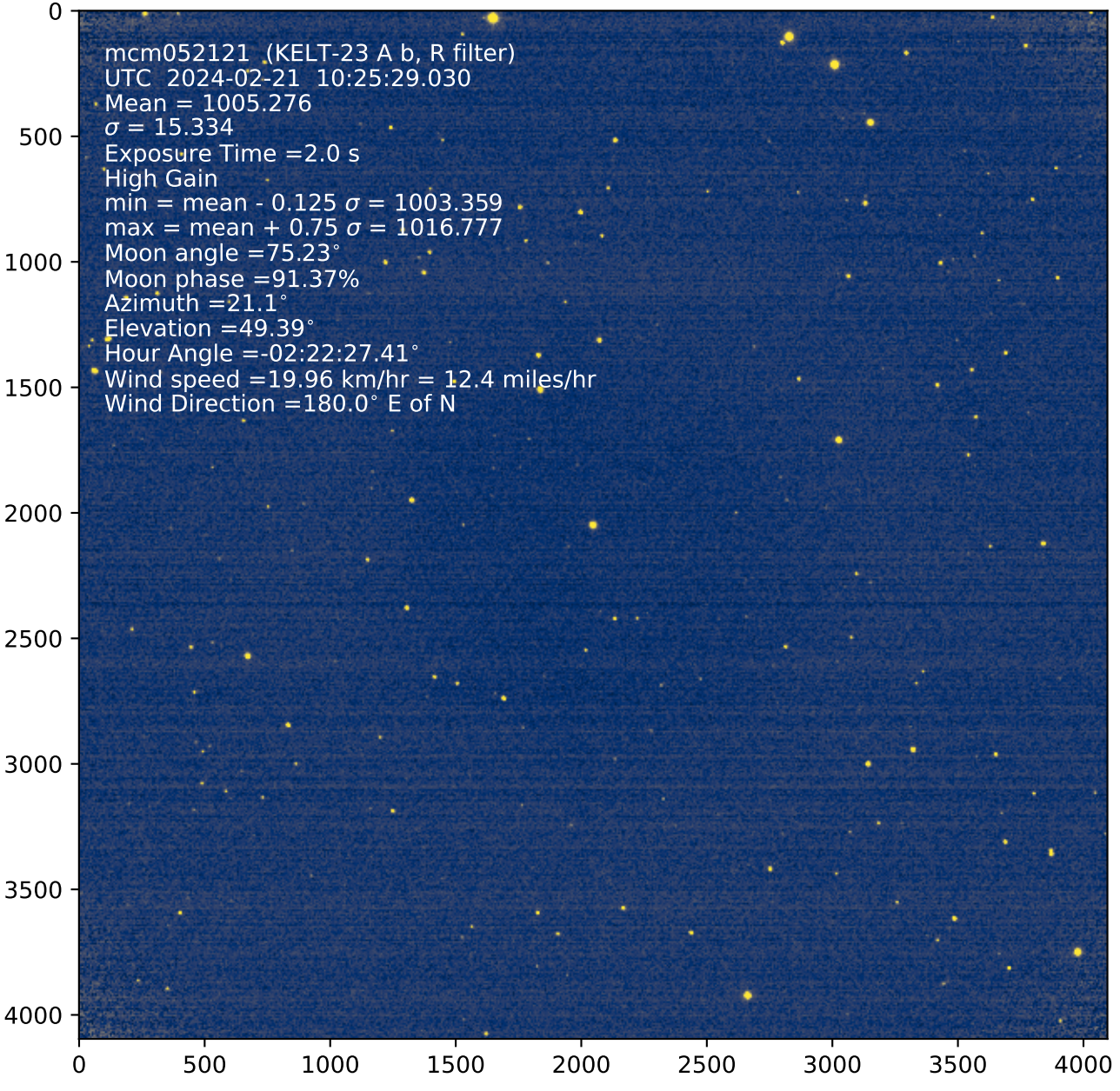
2500
3000
3500
4000


mcm052121 (KELT-23 A b, R filter)
UTC 2024-02-21 10:25:29.030
Mean = 1005.276
σ = 15.334
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1003.359
max = mean + 0.75 σ = 1016.777
Moon angle =75.23°
Moon phase =91.37%
Azimuth =21.1°
Elevation =49.39°
Hour Angle =-02:22:27.41°
Wind speed =19.96 km/hr = 12.4 miles/hr
Wind Direction =180.0° E of N
0
500
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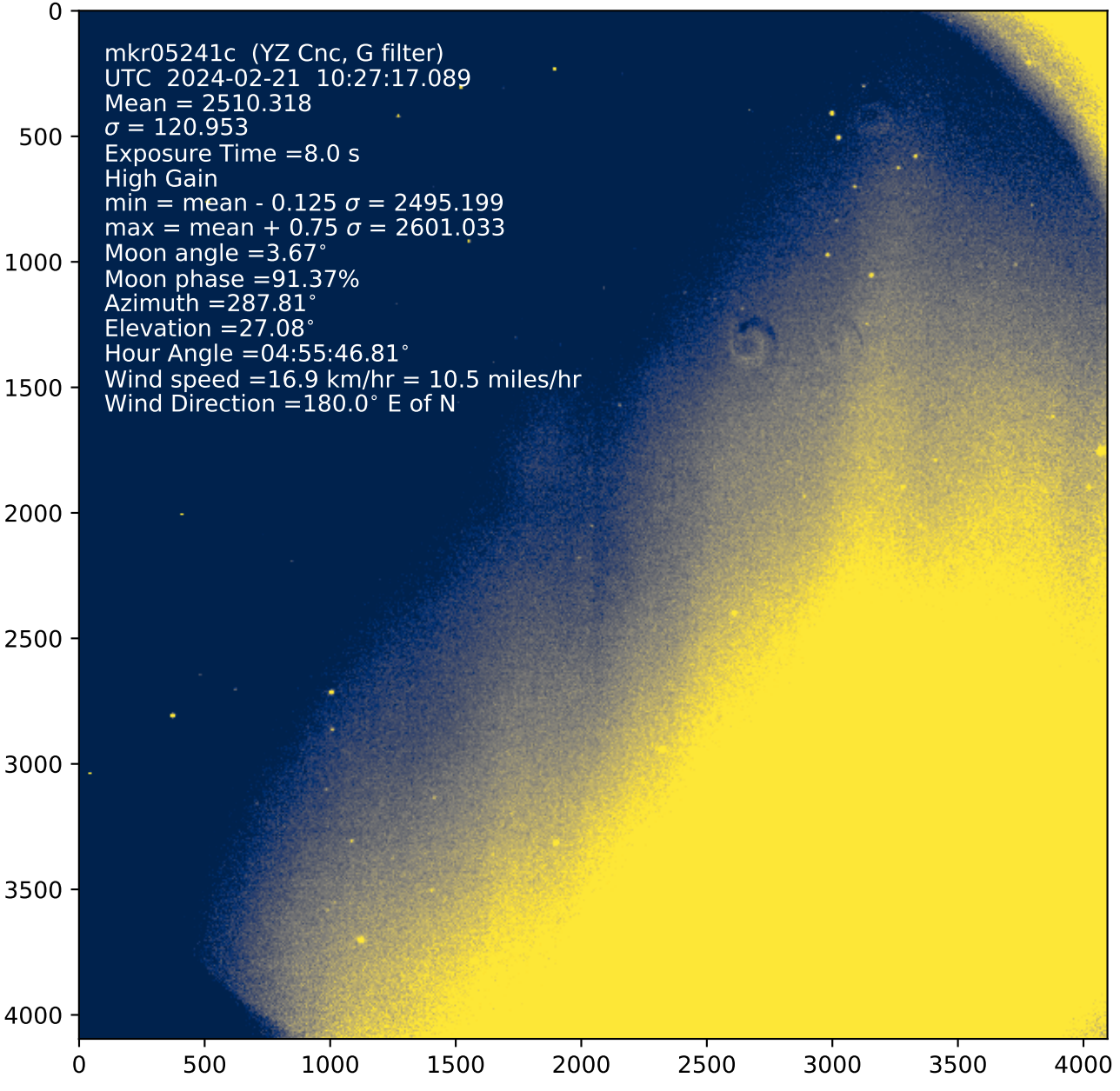
2500
3000
3500
4000


mkr05241c (YZ Cnc, G filter)
UTC 2024-02-21 10:27:17.089
Mean = 2510.318
σ = 120.953
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2495.199
max = mean + 0.75 σ = 2601.033
Moon angle =3.67°
Moon phase =91.37%
Azimuth =287.81°
Elevation =27.08°
Hour Angle =04:55:46.81°
Wind speed =16.9 km/hr = 10.5 miles/hr
Wind Direction =180.0° E of N
0
500
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2500
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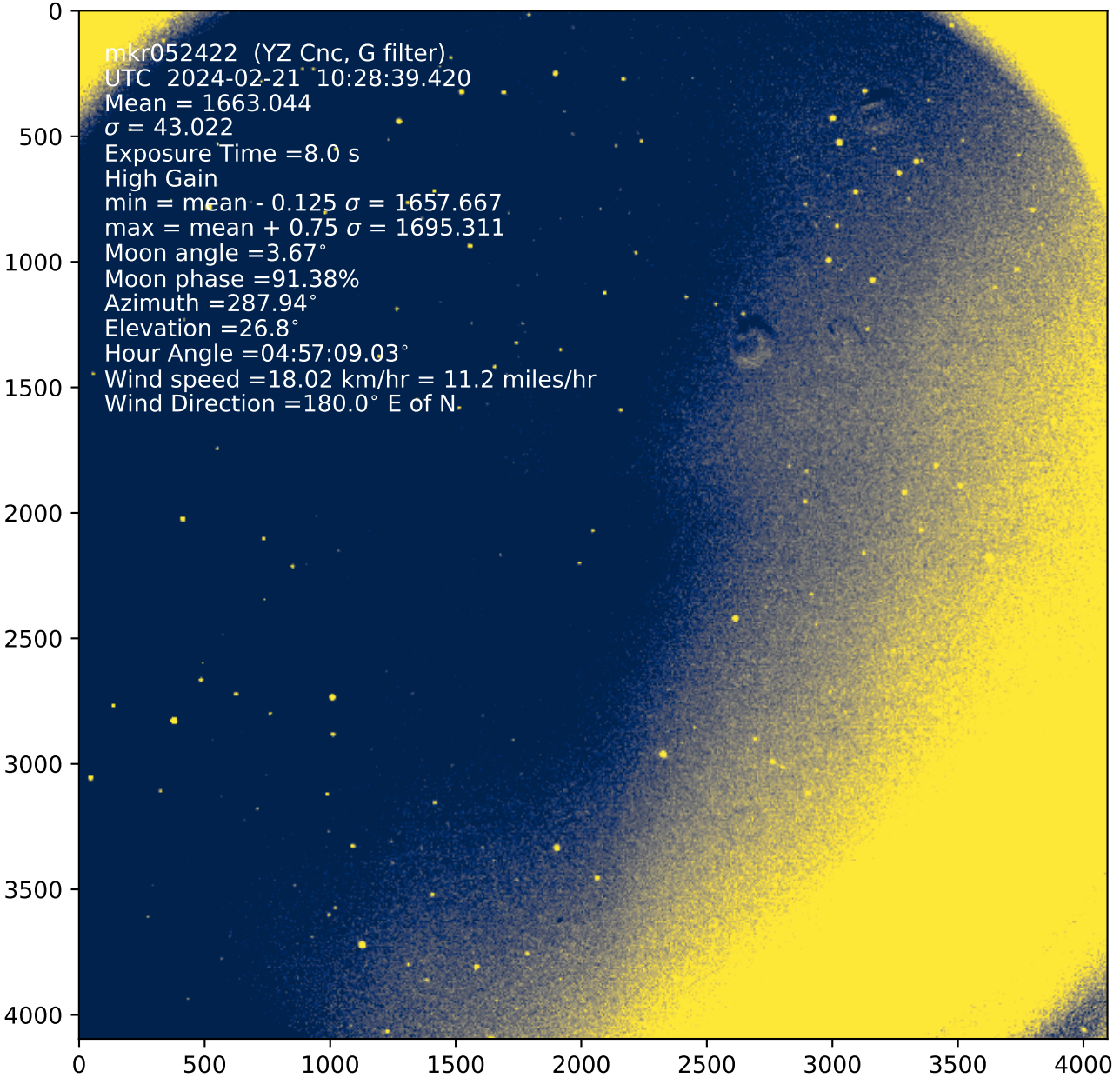
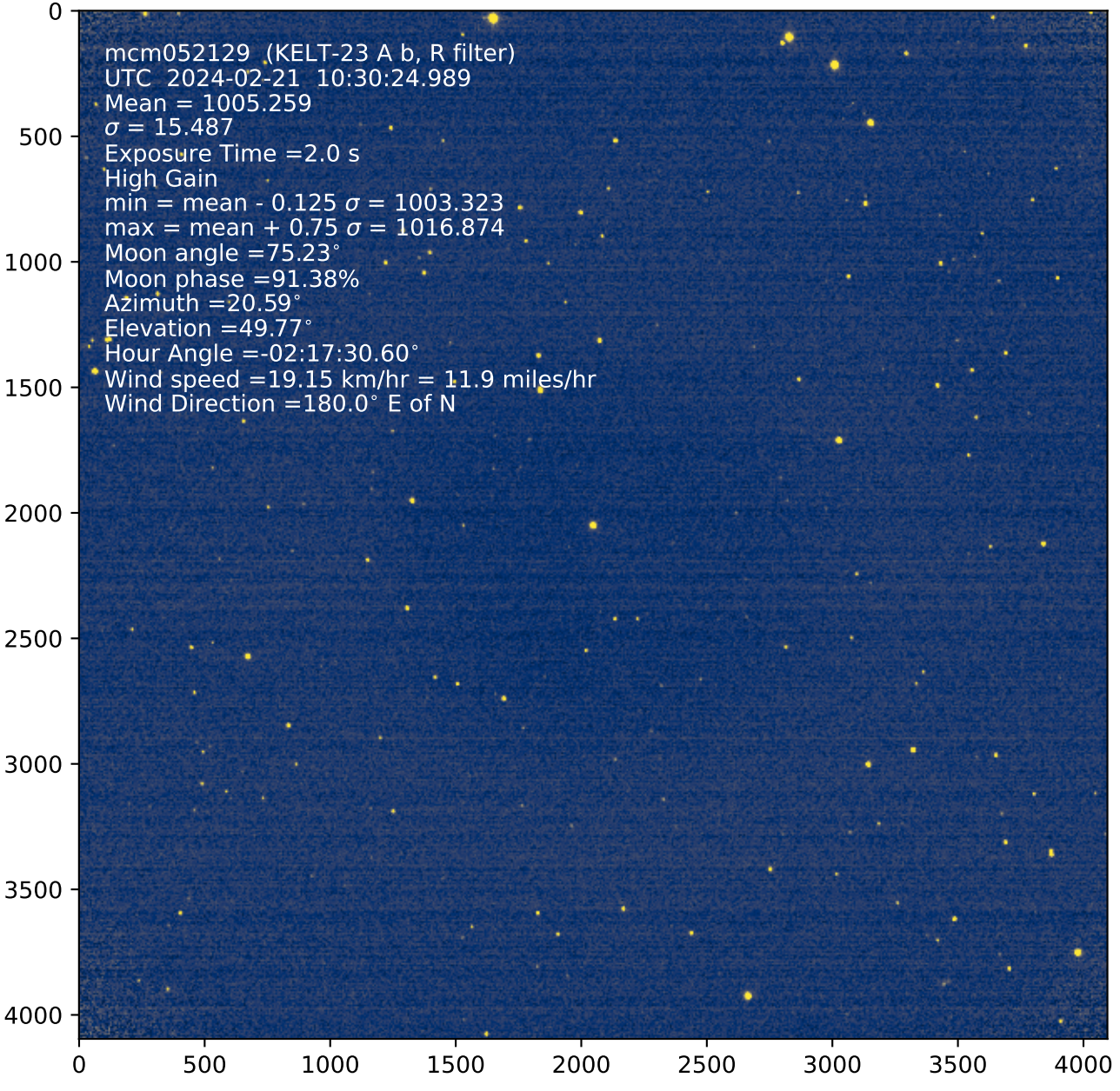
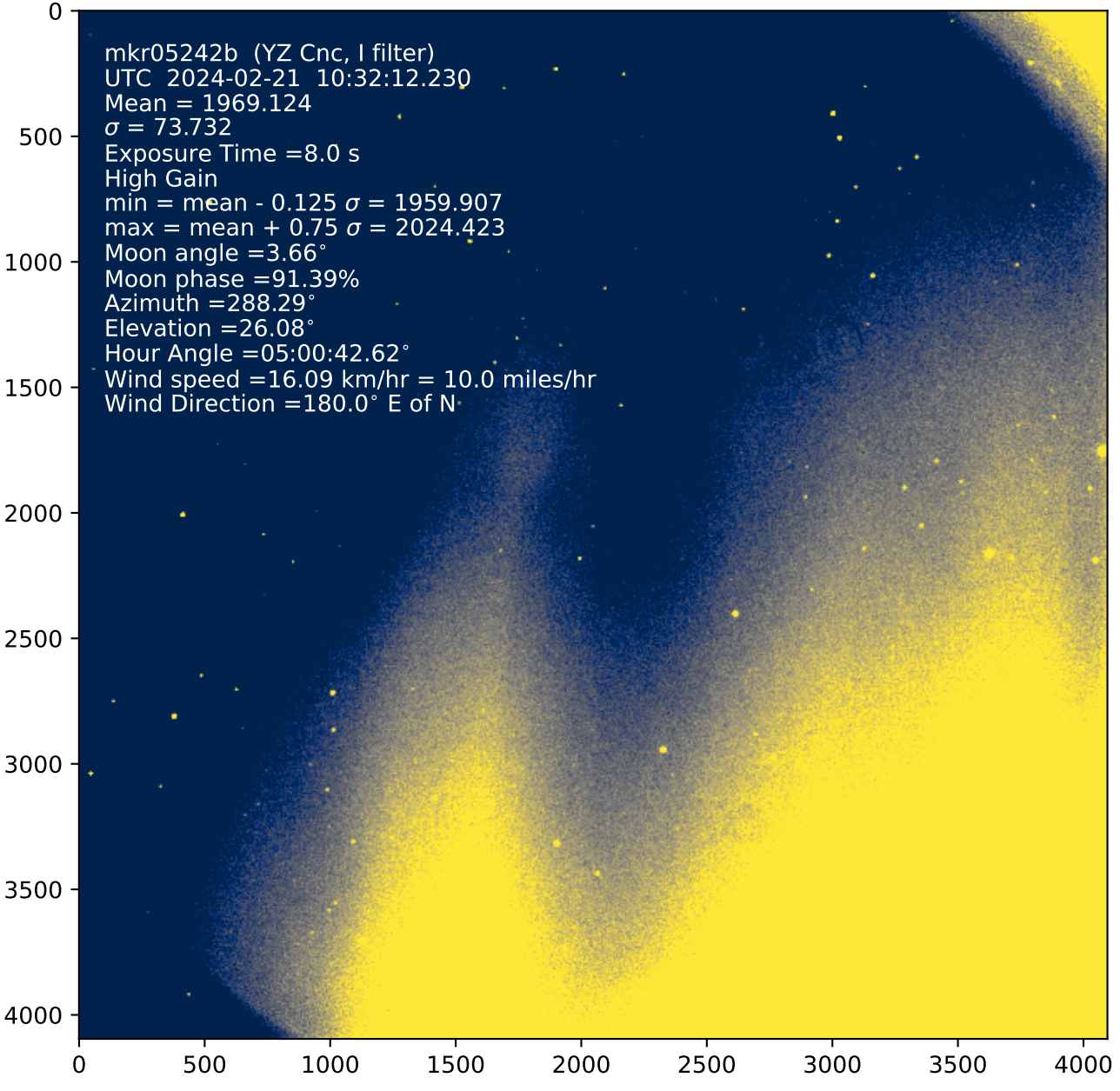
3500
4000


mkr052422 (YZ Cnc, G filter)
UTC 2024-02-21 10:28:39.420
Mean = 1663.044
σ = 43.022
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1657.667
max = mean + 0.75 σ = 1695.311
Moon angle =3.67°
Moon phase =91.38%
Azimuth =287.94°
Elevation =26.8°
Hour Angle =04:57:09.03°
Wind speed =18.02 km/hr = 11.2 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mcm052129 (KELT-23 A b, R filter)
UTC 2024-02-21 10:30:24.989
Mean = 1005.259
σ = 15.487
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1003.323
max = mean + 0.75 σ = 1016.874
Moon angle =75.23°
Moon phase =91.38%
Azimuth =20.59°
Elevation =49.77°
Hour Angle =-02:17:30.60°
Wind speed =19.15 km/hr = 11.9 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mkr05242b (YZ Cnc, I filter)
UTC 2024-02-21 10:32:12.230
Mean = 1969.124
σ = 73.732
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1959.907
max = mean + 0.75 σ = 2024.423
Moon angle =3.66°
Moon phase =91.39%
Azimuth =288.29°
Elevation =26.08°
Hour Angle =05:00:42.62°
Wind speed =16.09 km/hr = 10.0 miles/hr
Wind Direction =180.0° E of N
0
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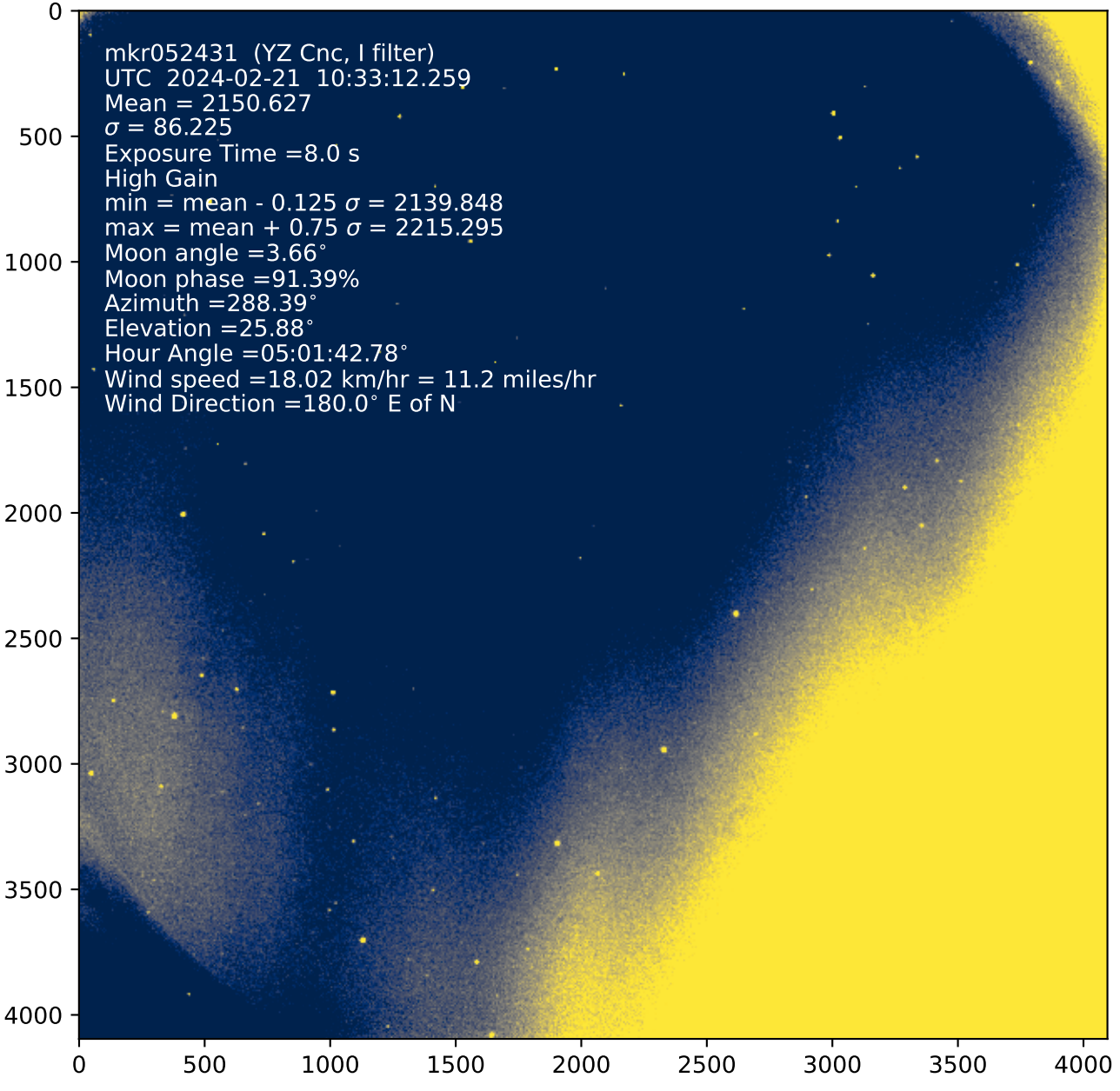
mkr052431 (YZ Cnc, I filter)
UTC 2024-02-21 10:33:12.259
Mean = 2150.627
σ = 86.225
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 2139.848
max = mean + 0.75 σ = 2215.295
Moon angle =3.66°
Moon phase =91.39%
Azimuth =288.39°
Elevation =25.88°
Hour Angle =05:01:42.78°
Wind speed =18.02 km/hr = 11.2 miles/hr
Wind Direction =180.0° E of N
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2500
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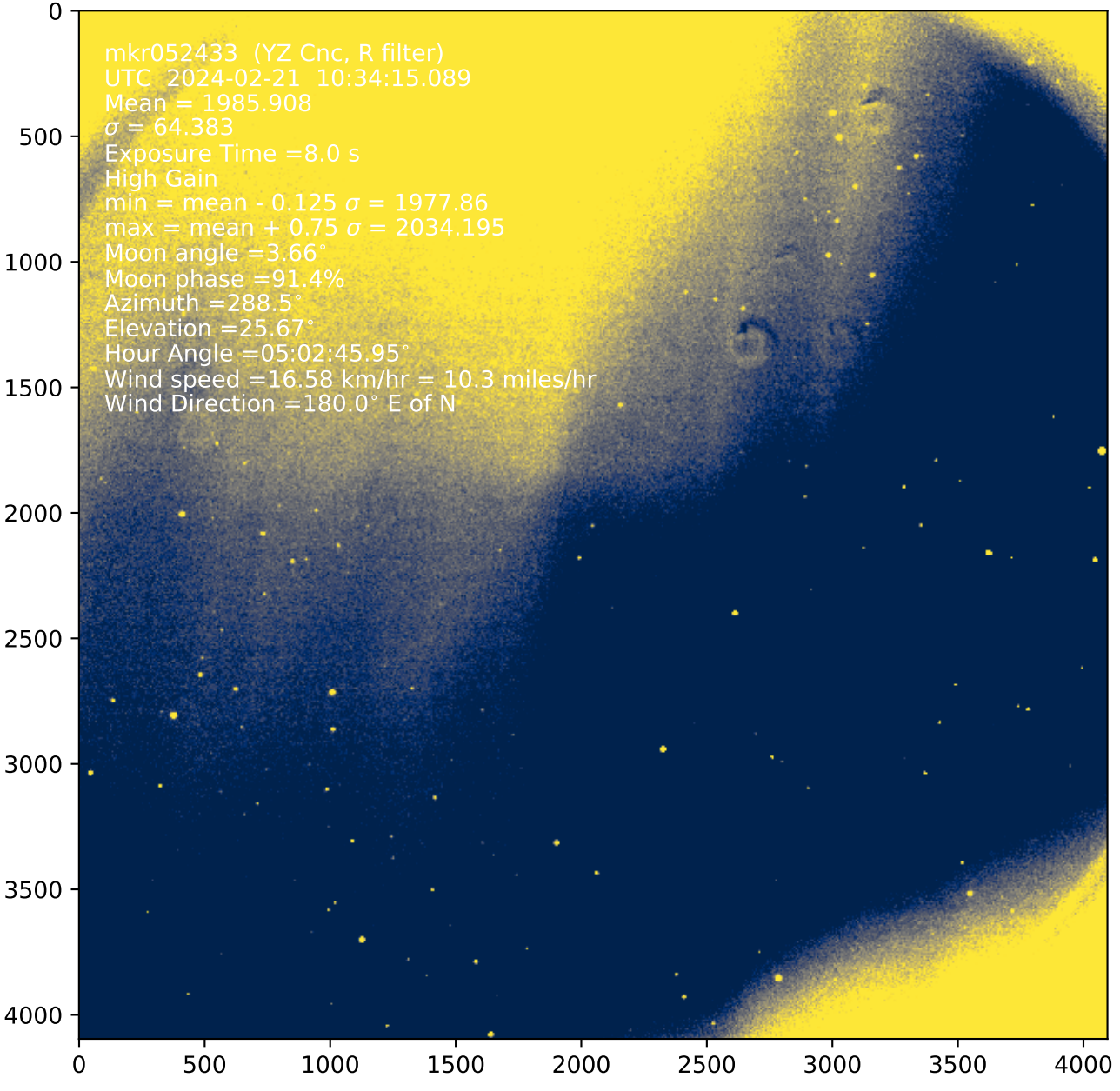
3500
4000


mkr052433 (YZ Cnc, R filter)
UTC 2024-02-21 10:34:15.089
Mean = 1985.908
σ = 64.383
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 1977.86
max = mean + 0.75 σ = 2034.195
Moon angle =3.66°
Moon phase =91.4%
Azimuth =288.5°
Elevation =25.67°
Hour Angle =05:02:45.95°
Wind speed =16.58 km/hr = 10.3 miles/hr
Wind Direction =180.0° E of N
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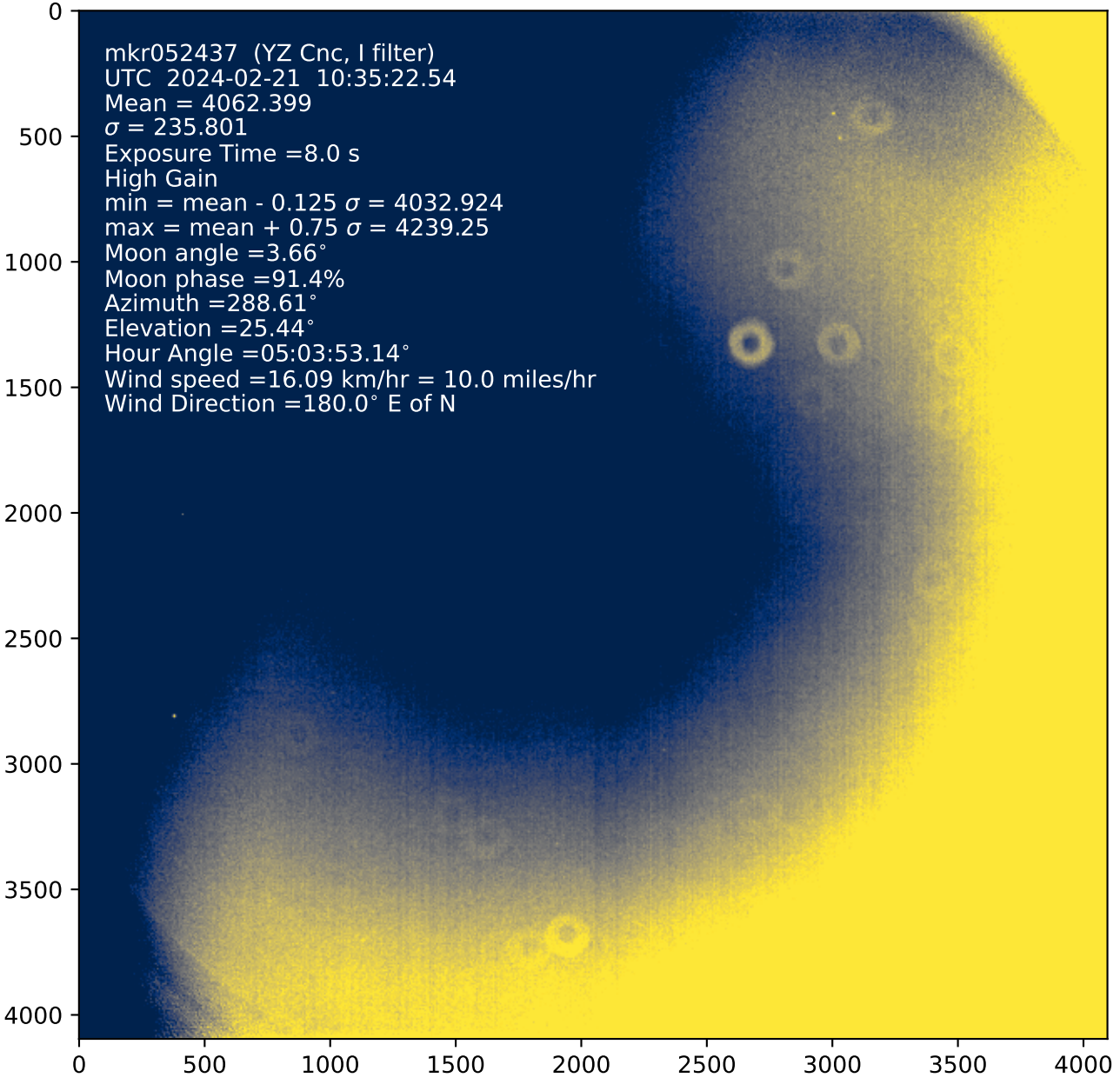
2500
3000
3500
4000


mkr052437 (YZ Cnc, I filter)
UTC 2024-02-21 10:35:22.54
Mean = 4062.399
σ = 235.801
Exposure Time =8.0 s
High Gain
min = mean - 0.125 σ = 4032.924
max = mean + 0.75 σ = 4239.25
Moon angle =3.66°
Moon phase =91.4%
Azimuth =288.61°
Elevation =25.44°
Hour Angle =05:03:53.14°
Wind speed =16.09 km/hr = 10.0 miles/hr
Wind Direction =180.0° E of N
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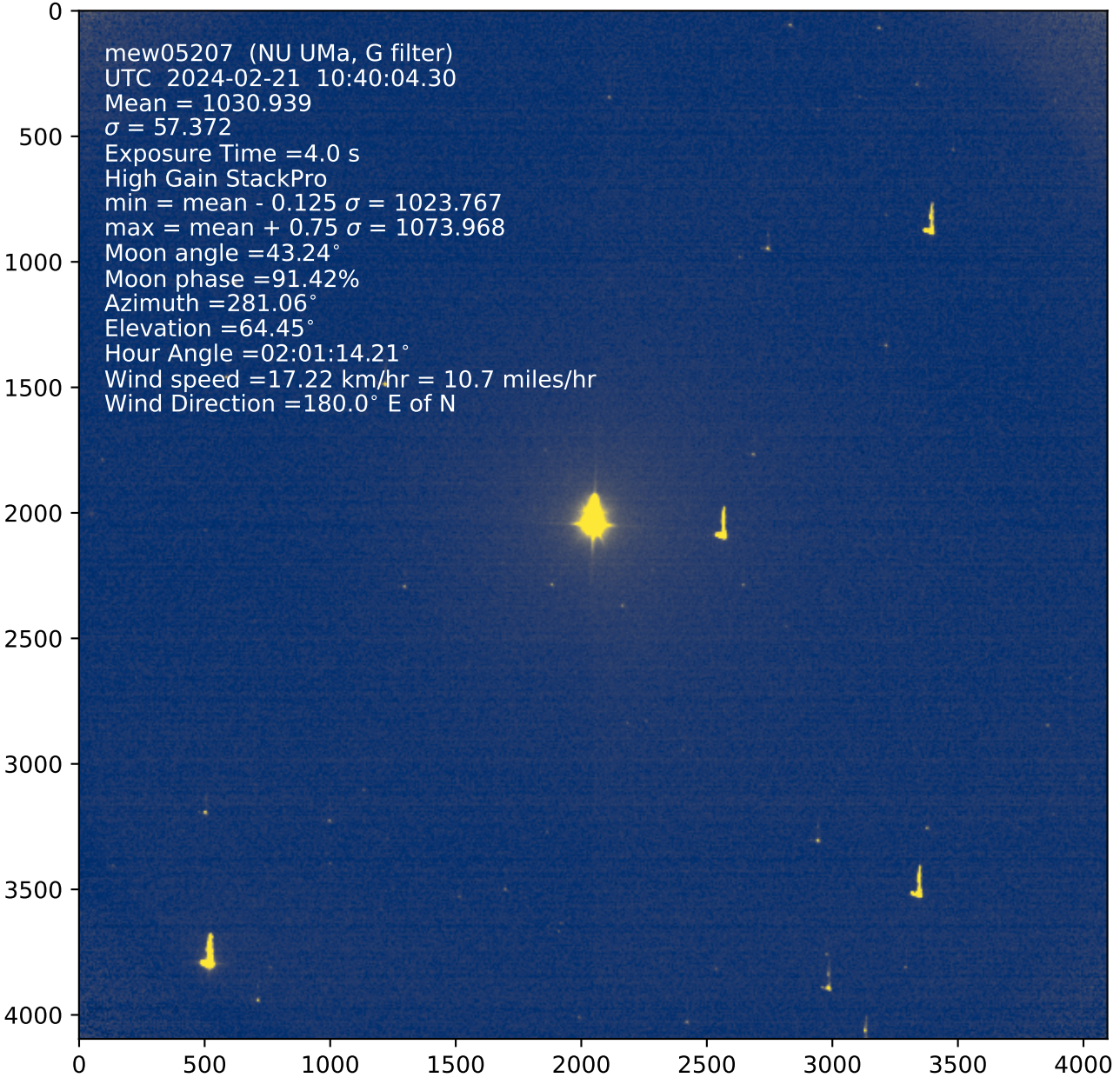
2500
3000
3500
4000


mew05207 (NU UMa, G filter)
UTC 2024-02-21 10:40:04.30
Mean = 1030.939
σ = 57.372
Exposure Time =4.0 s
High Gain StackPro
min = mean - 0.125 σ = 1023.767
max = mean + 0.75 σ = 1073.968
Moon angle =43.24°
Moon phase =91.42%
Azimuth =281.06°
Elevation =64.45°
Hour Angle =02:01:14.21°
Wind speed =17.22 km/hr = 10.7 miles/hr
Wind Direction =180.0° E of N
0
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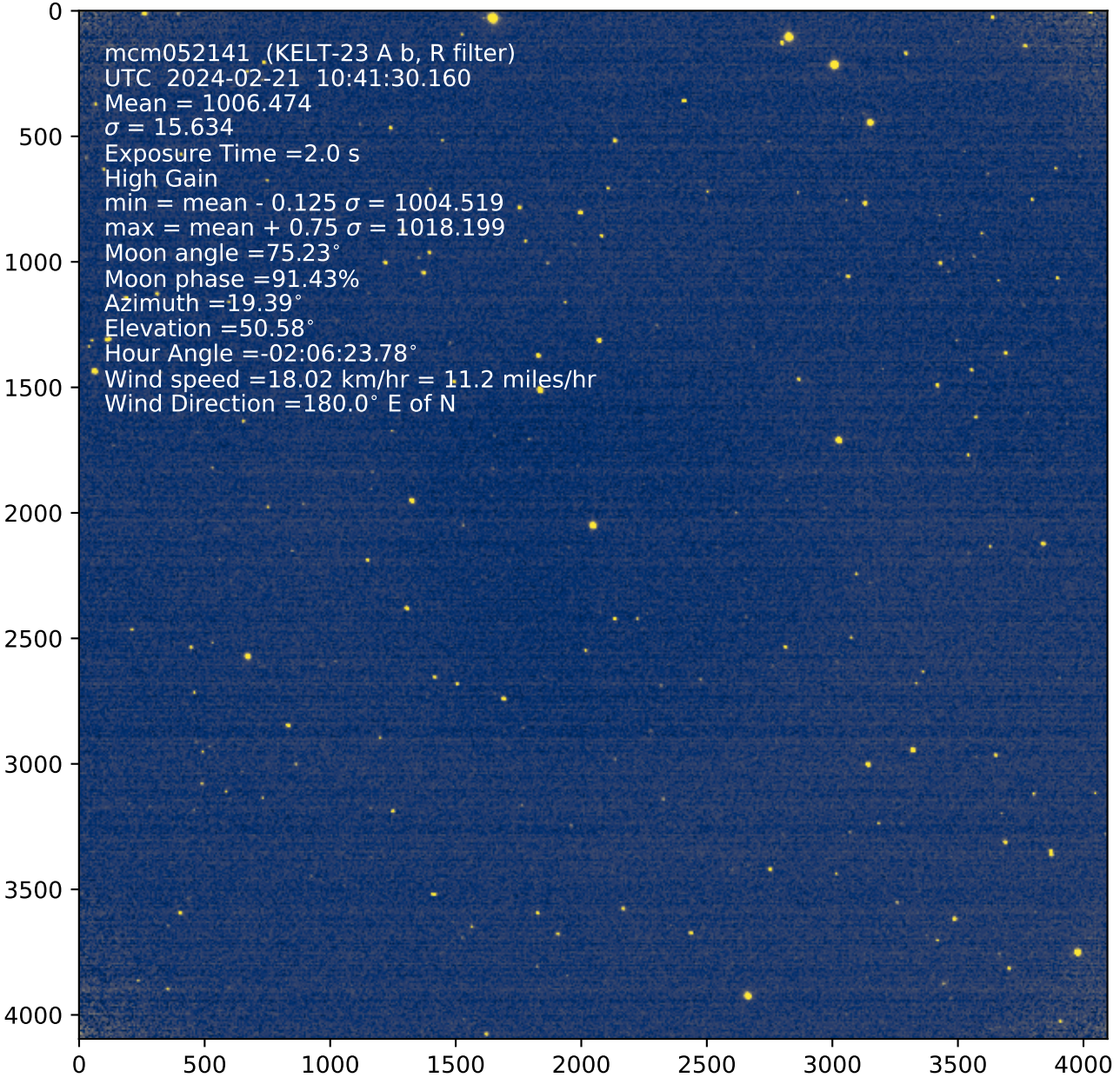
mcm052141 (KELT-23 A b, R filter)
UTC 2024-02-21 10:41:30.160
Mean = 1006.474
σ = 15.634
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1004.519
max = mean + 0.75 σ = 1018.199
Moon angle =75.23°
Moon phase =91.43%
Azimuth =19.39°
Elevation =50.58°
Hour Angle =-02:06:23.78°
Wind speed =18.02 km/hr = 11.2 miles/hr
Wind Direction =180.0° E of N
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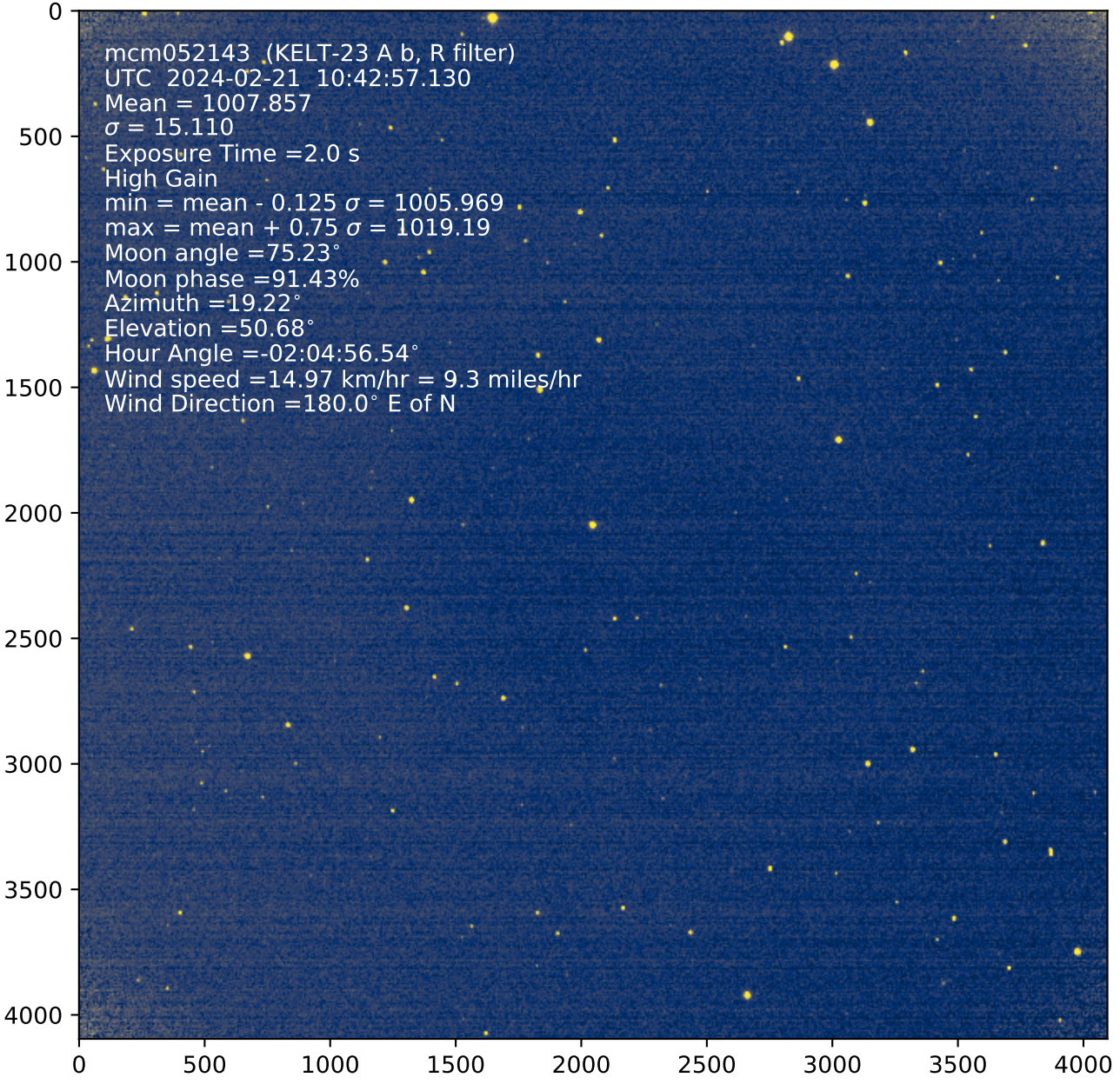
mcm052143 (KELT-23 A b, R filter)
UTC 2024-02-21 10:42:57.130
Mean = 1007.857
σ = 15.110
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1005.969
max = mean + 0.75 σ = 1019.19
Moon angle =75.23°
Moon phase =91.43%
Azimuth =19.22°
Elevation =50.68°
Hour Angle =-02:04:56.54°
Wind speed =14.97 km/hr = 9.3 miles/hr
Wind Direction =180.0° E of N
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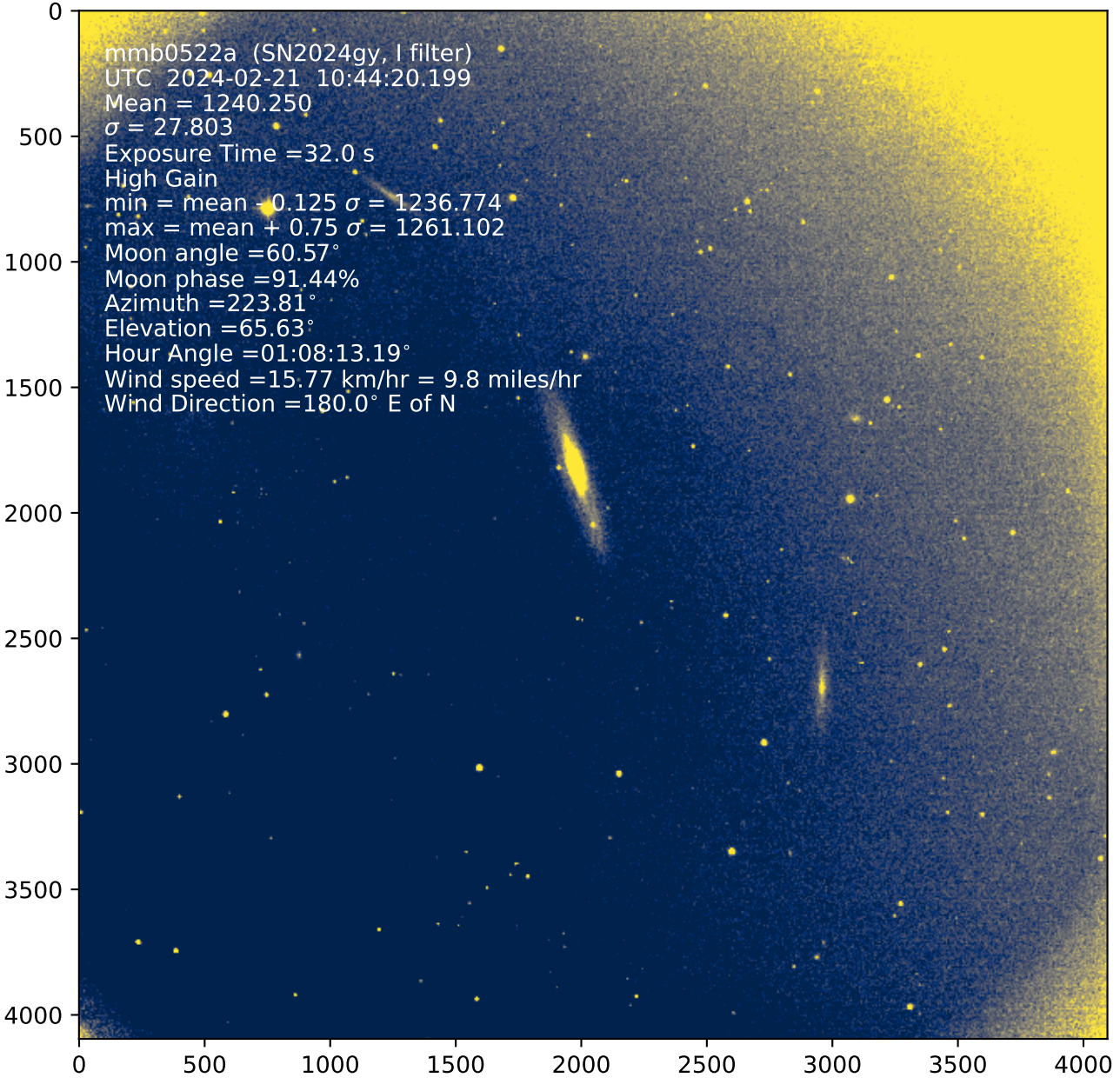
mmb0522a (SN2024gy, I filter)
UTC 2024-02-21 10:44:20.199
Mean = 1240.250
σ = 27.803
Exposure Time =32.0 s
High Gain
min = mean - 0.125 σ = 1236.774
max = mean + 0.75 σ = 1261.102
Moon angle =60.57°
Moon phase =91.44%
Azimuth =223.81°
Elevation =65.63°
Hour Angle =01:08:13.19°
Wind speed =15.77 km/hr = 9.8 miles/hr
Wind Direction =180.0° E of N
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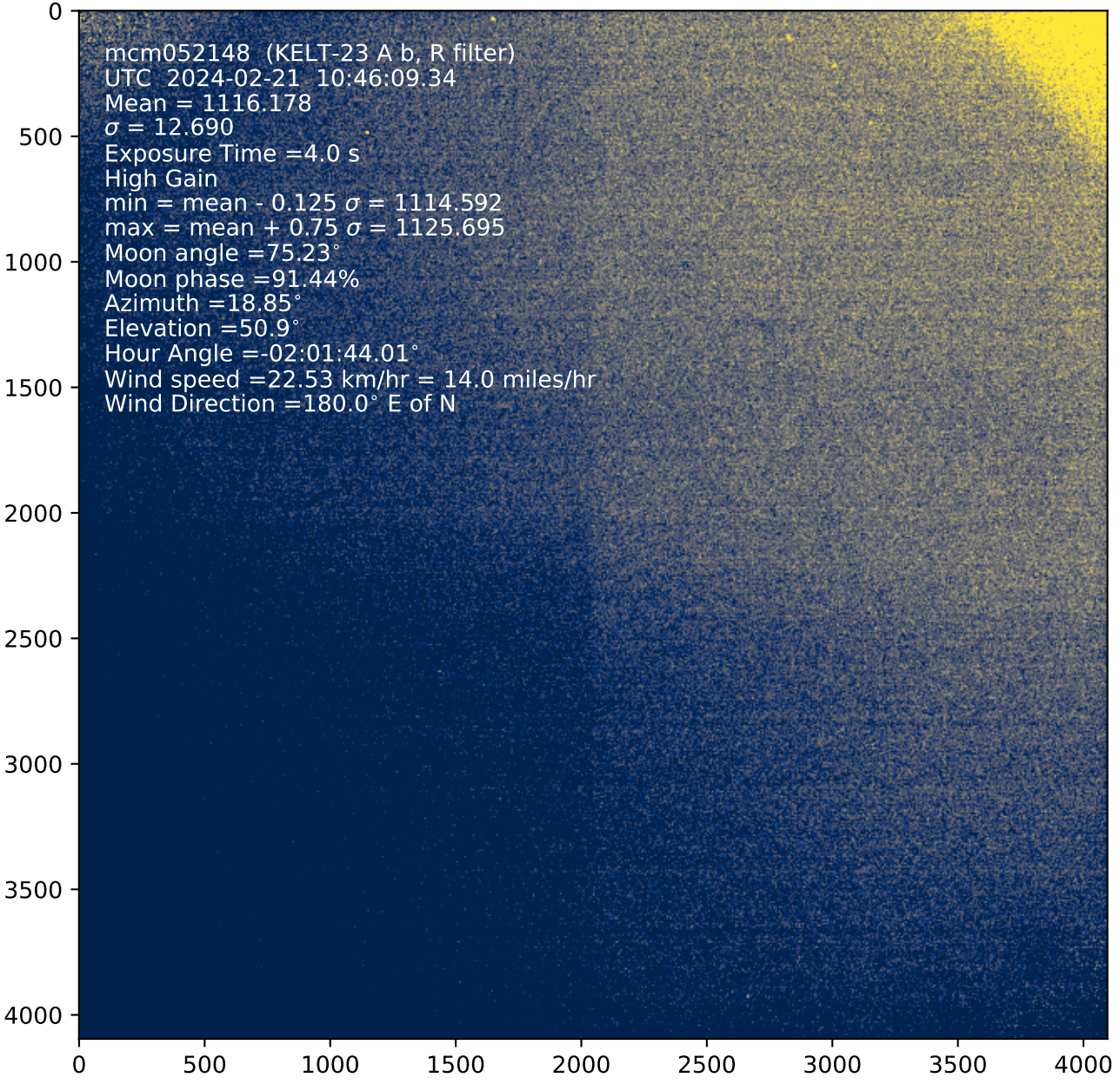
mcm052148 (KELT-23 A b, R filter)
UTC 2024-02-21 10:46:09.34
Mean = 1116.178
σ = 12.690
Exposure Time =4.0 s
High Gain
min = mean - 0.125 σ = 1114.592
max = mean + 0.75 σ = 1125.695
Moon angle =75.23°
Moon phase =91.44%
Azimuth =18.85°
Elevation =50.9°
Hour Angle =-02:01:44.01°
Wind speed =22.53 km/hr = 14.0 miles/hr
Wind Direction =180.0° E of N
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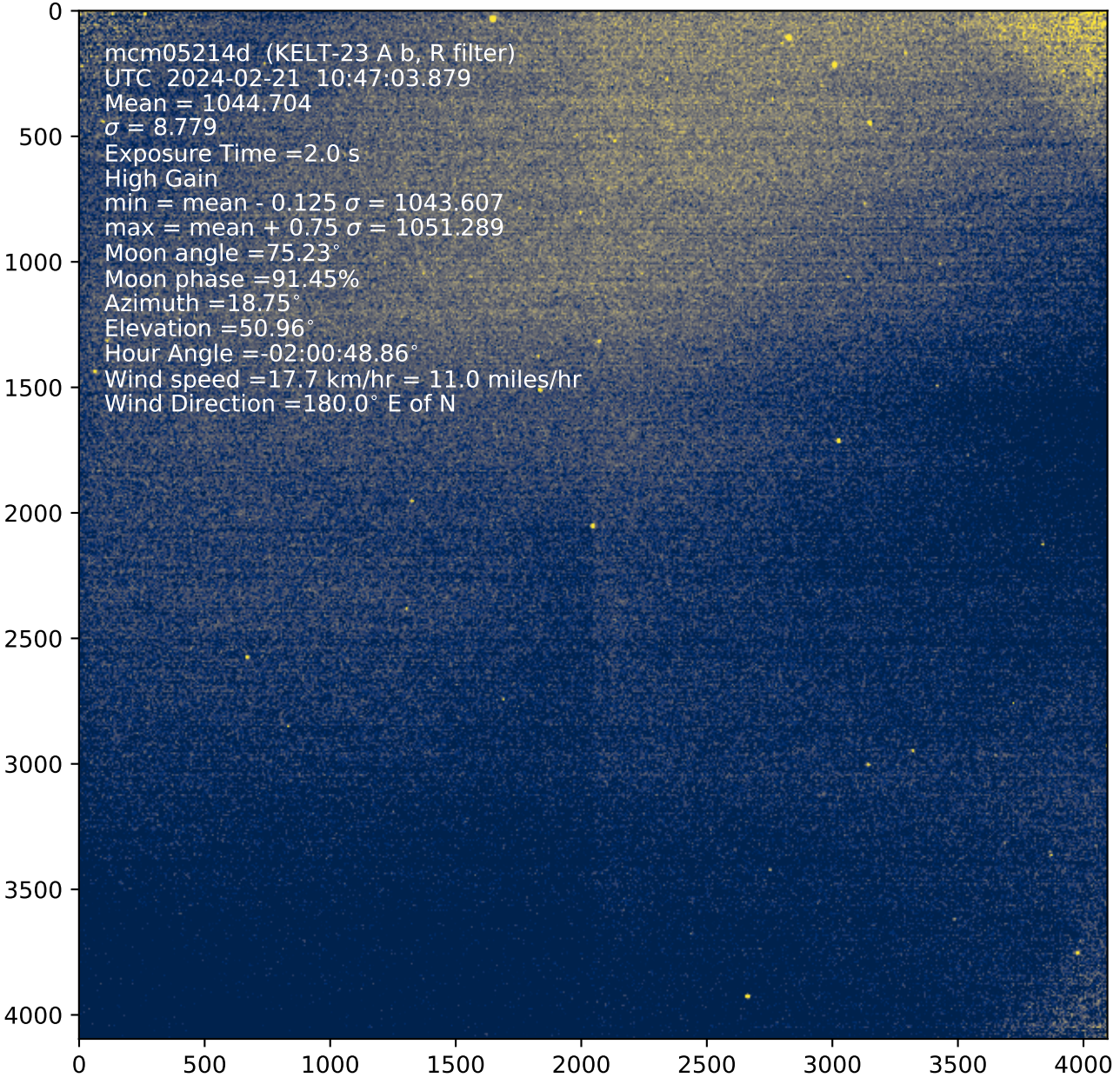
mcm05214d (KELT-23 A b, R filter)
UTC 2024-02-21 10:47:03.879
Mean = 1044.704
σ = 8.779
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1043.607
max = mean + 0.75 σ = 1051.289
Moon angle =75.23°
Moon phase =91.45%
Azimuth =18.75°
Elevation =50.96°
Hour Angle =-02:00:48.86°
Wind speed =17.7 km/hr = 11.0 miles/hr
Wind Direction =180.0° E of N
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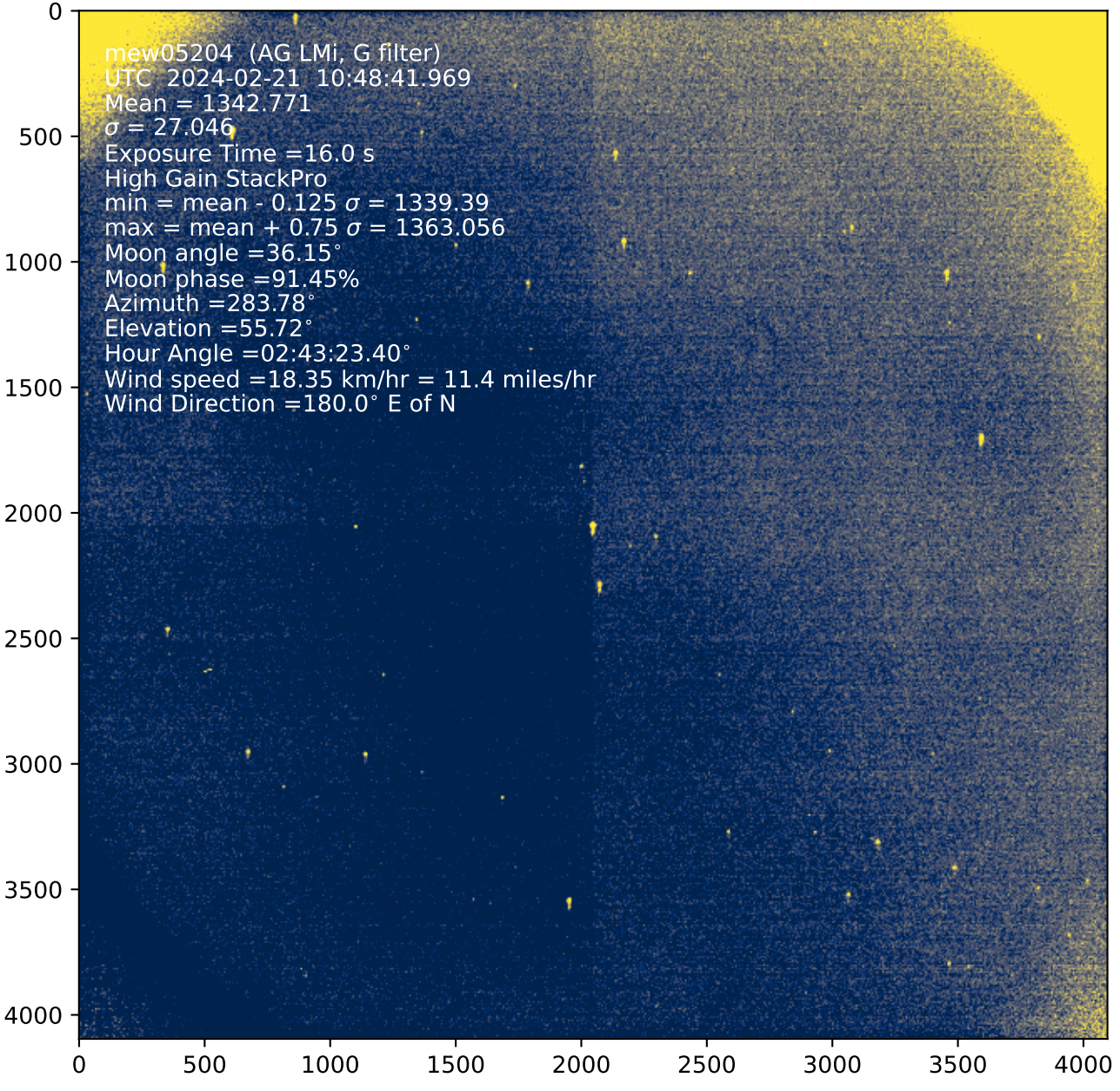
mew05204 (AG LMi, G filter)
UTC 2024-02-21 10:48:41.969
Mean = 1342.771
σ = 27.046
Exposure Time =16.0 s
High Gain StackPro
min = mean - 0.125 σ = 1339.39
max = mean + 0.75 σ = 1363.056
Moon angle =36.15°
Moon phase =91.45%
Azimuth =283.78°
Elevation =55.72°
Hour Angle =02:43:23.40°
Wind speed =18.35 km/hr = 11.4 miles/hr
Wind Direction =180.0° E of N
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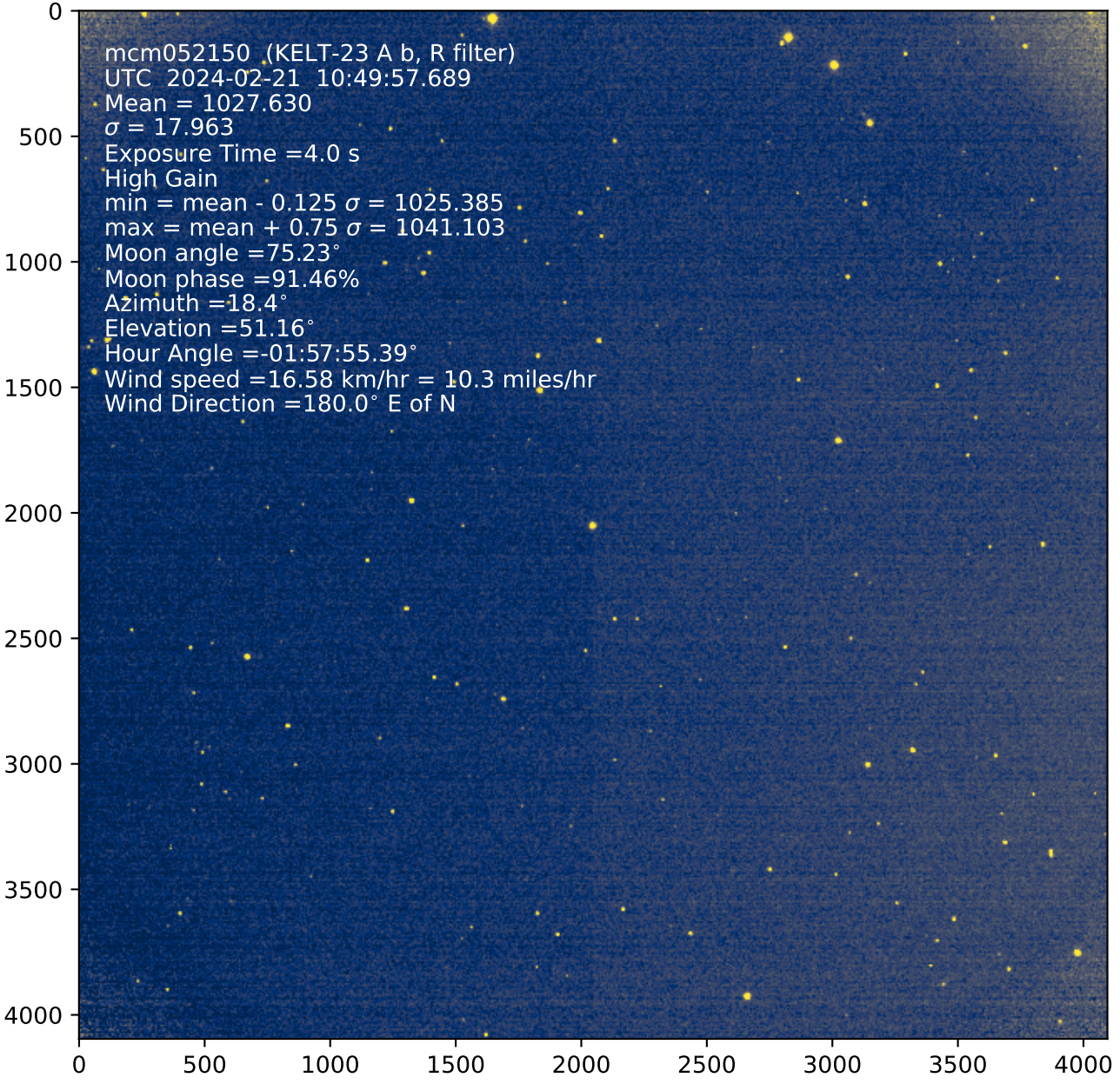
4000


mcm052150 (KELT-23 A b, R filter)
UTC 2024-02-21 10:49:57.689
Mean = 1027.630
σ = 17.963
Exposure Time =4.0 s
High Gain
min = mean - 0.125 σ = 1025.385
max = mean + 0.75 σ = 1041.103
Moon angle =75.23°
Moon phase =91.46%
Azimuth =18.4°
Elevation =51.16°
Hour Angle =-01:57:55.39°
Wind speed =16.58 km/hr = 10.3 miles/hr
Wind Direction =180.0° E of N
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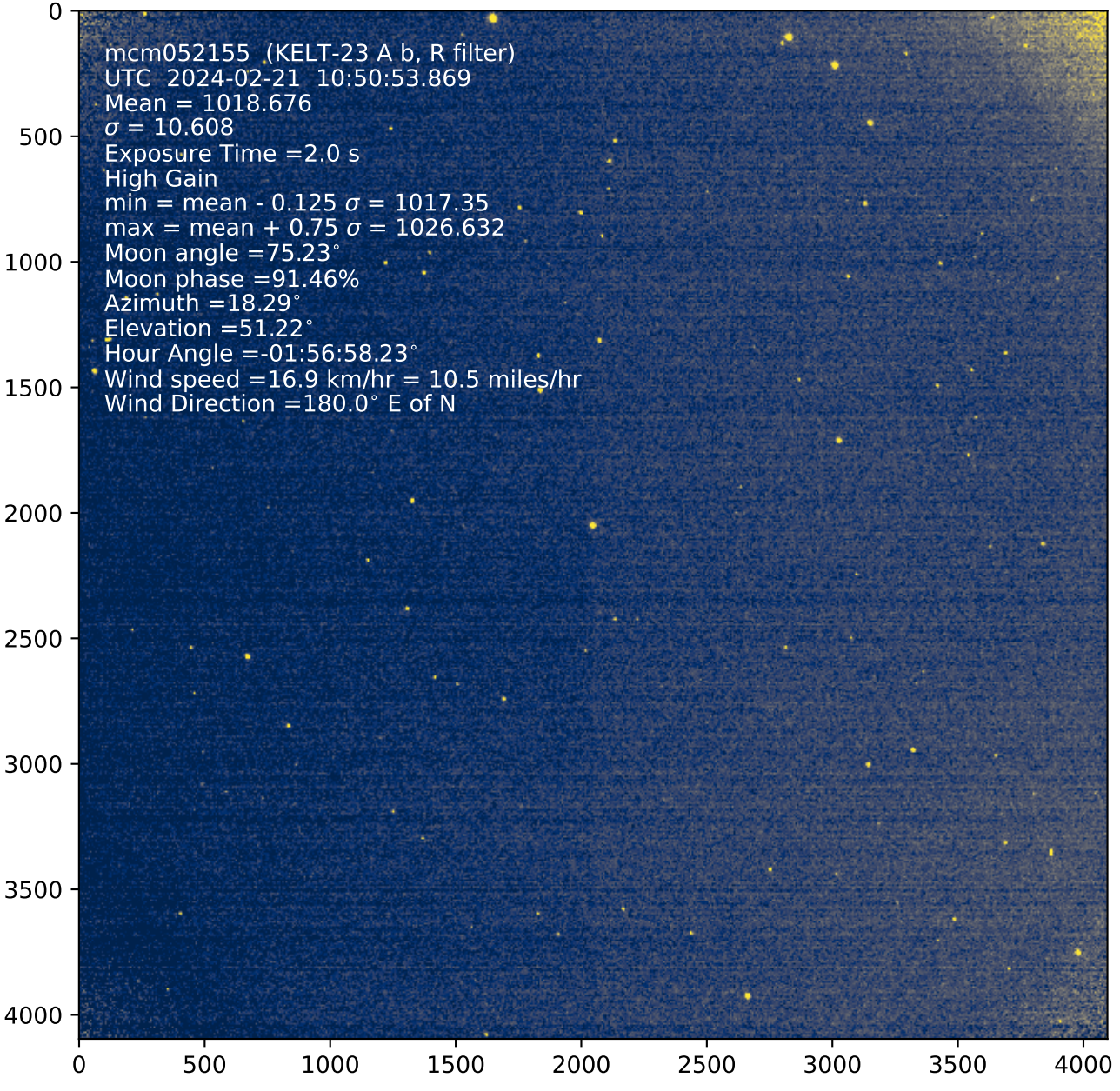
mcm052155 (KELT-23 A b, R filter)
UTC 2024-02-21 10:50:53.869
Mean = 1018.676
σ = 10.608
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1017.35
max = mean + 0.75 σ = 1026.632
Moon angle =75.23°
Moon phase =91.46%
Azimuth =18.29°
Elevation =51.22°
Hour Angle =-01:56:58.23°
Wind speed =16.9 km/hr = 10.5 miles/hr
Wind Direction =180.0° E of N
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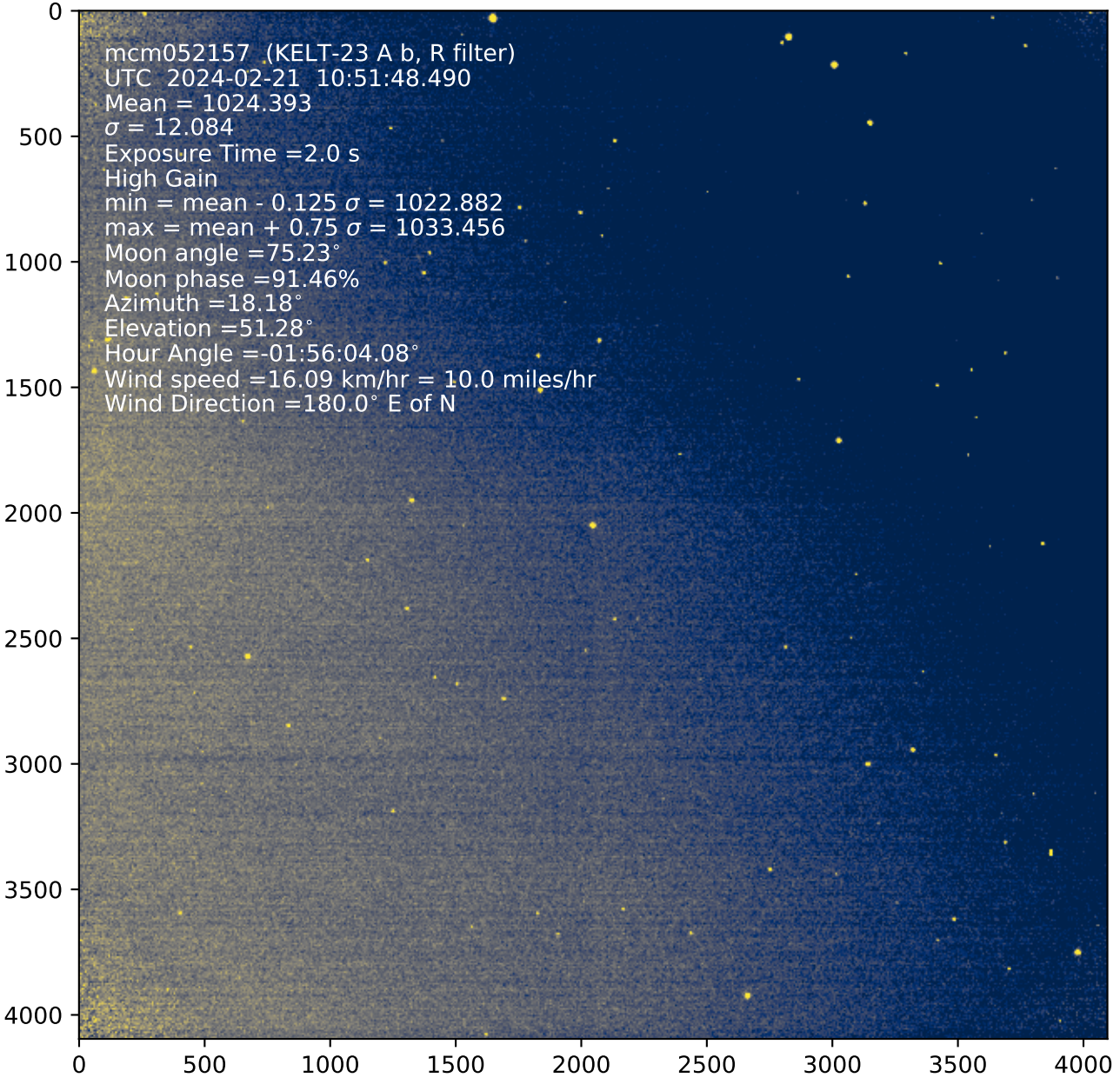
3000
3500
4000


mcm052157 (KELT-23 A b, R filter)
UTC 2024-02-21 10:51:48.490
Mean = 1024.393
σ = 12.084
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1022.882
max = mean + 0.75 σ = 1033.456
Moon angle =75.23°
Moon phase =91.46%
Azimuth =18.18°
Elevation =51.28°
Hour Angle =-01:56:04.08°
Wind speed =16.09 km/hr = 10.0 miles/hr
Wind Direction =180.0° E of N
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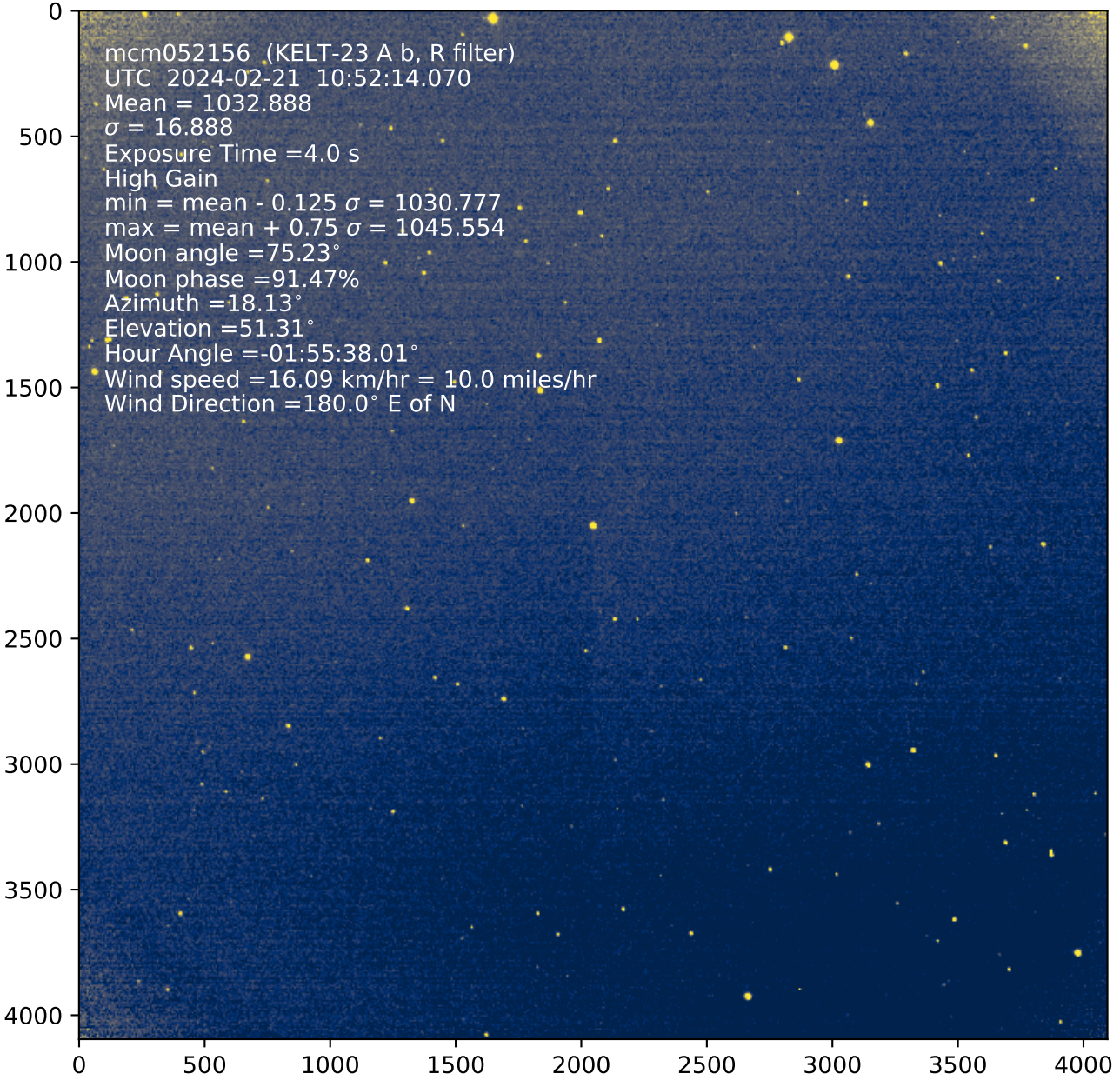
4000


mcm052156 (KELT-23 A b, R filter)
UTC 2024-02-21 10:52:14.070
Mean = 1032.888
σ = 16.888
Exposure Time =4.0 s
High Gain
min = mean - 0.125 σ = 1030.777
max = mean + 0.75 σ = 1045.554
Moon angle =75.23°
Moon phase =91.47%
Azimuth =18.13°
Elevation =51.31°
Hour Angle =-01:55:38.01°
Wind speed =16.09 km/hr = 10.0 miles/hr
Wind Direction =180.0° E of N
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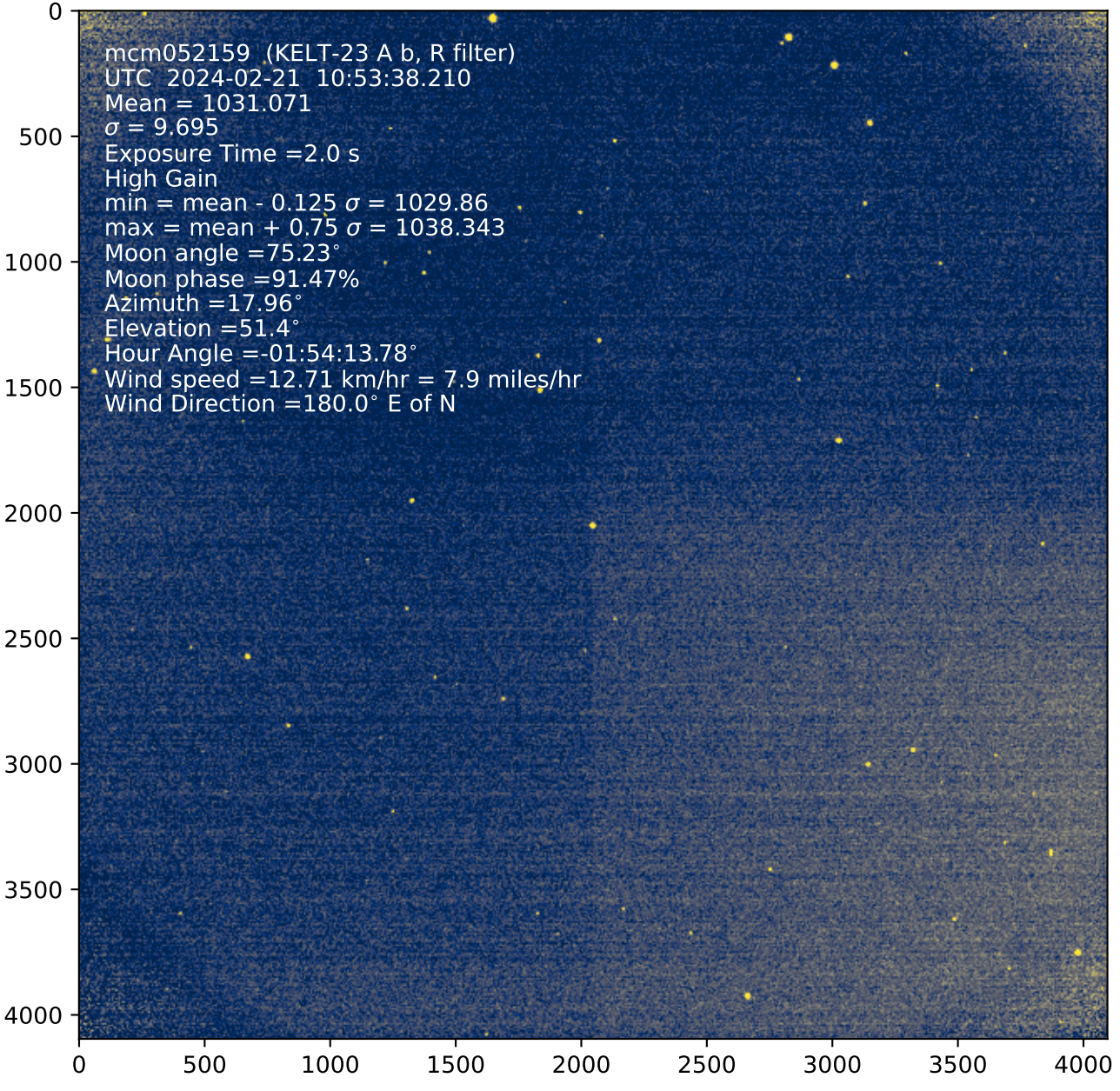
4000


mcm052159 (KELT-23 A b, R filter)
UTC 2024-02-21 10:53:38.210
Mean = 1031.071
σ = 9.695
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1029.86
max = mean + 0.75 σ = 1038.343
Moon angle =75.23˚
Moon phase =91.47%
Azimuth =17.96˚
Elevation =51.4˚
Hour Angle =-01:54:13.78˚
Wind speed =12.71 km/hr = 7.9 miles/hr
Wind Direction =180.0˚ E of N
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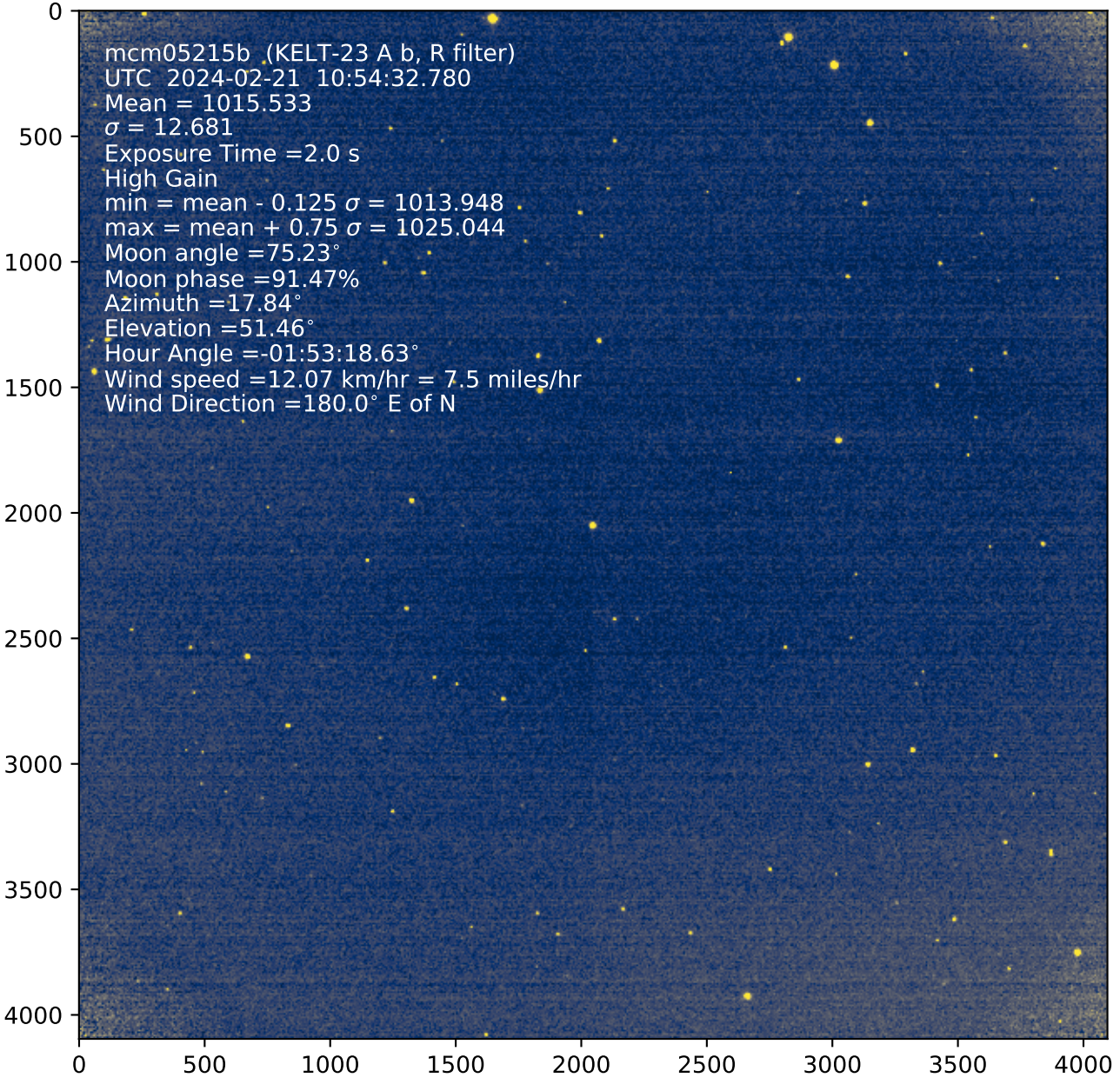
4000


mcm05215b (KELT-23 A b, R filter)
UTC 2024-02-21 10:54:32.780
Mean = 1015.533
σ = 12.681
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1013.948
max = mean + 0.75 σ = 1025.044
Moon angle =75.23°
Moon phase =91.47%
Azimuth =17.84°
Elevation =51.46°
Hour Angle =-01:53:18.63°
Wind speed =12.07 km/hr = 7.5 miles/hr
Wind Direction =180.0° E of N
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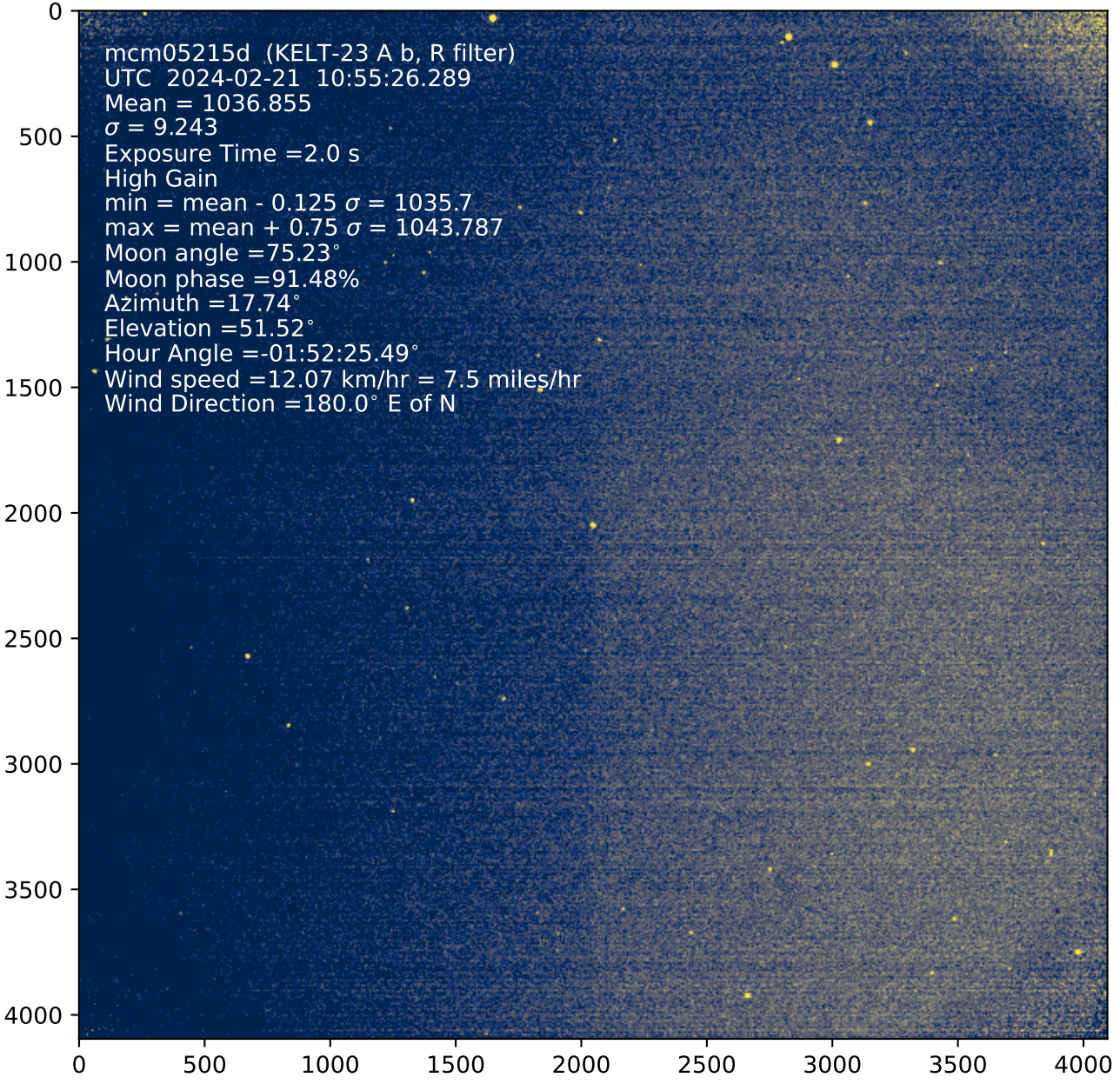
mcm05215d (KELT-23 A b, R filter)
UTC 2024-02-21 10:55:26.289
Mean = 1036.855
σ = 9.243
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1035.7
max = mean + 0.75 σ = 1043.787
Moon angle =75.23°
Moon phase =91.48%
Azimuth =17.74°
Elevation =51.52°
Hour Angle =-01:52:25.49°
Wind speed =12.07 km/hr = 7.5 miles/hr
Wind Direction =180.0° E of N
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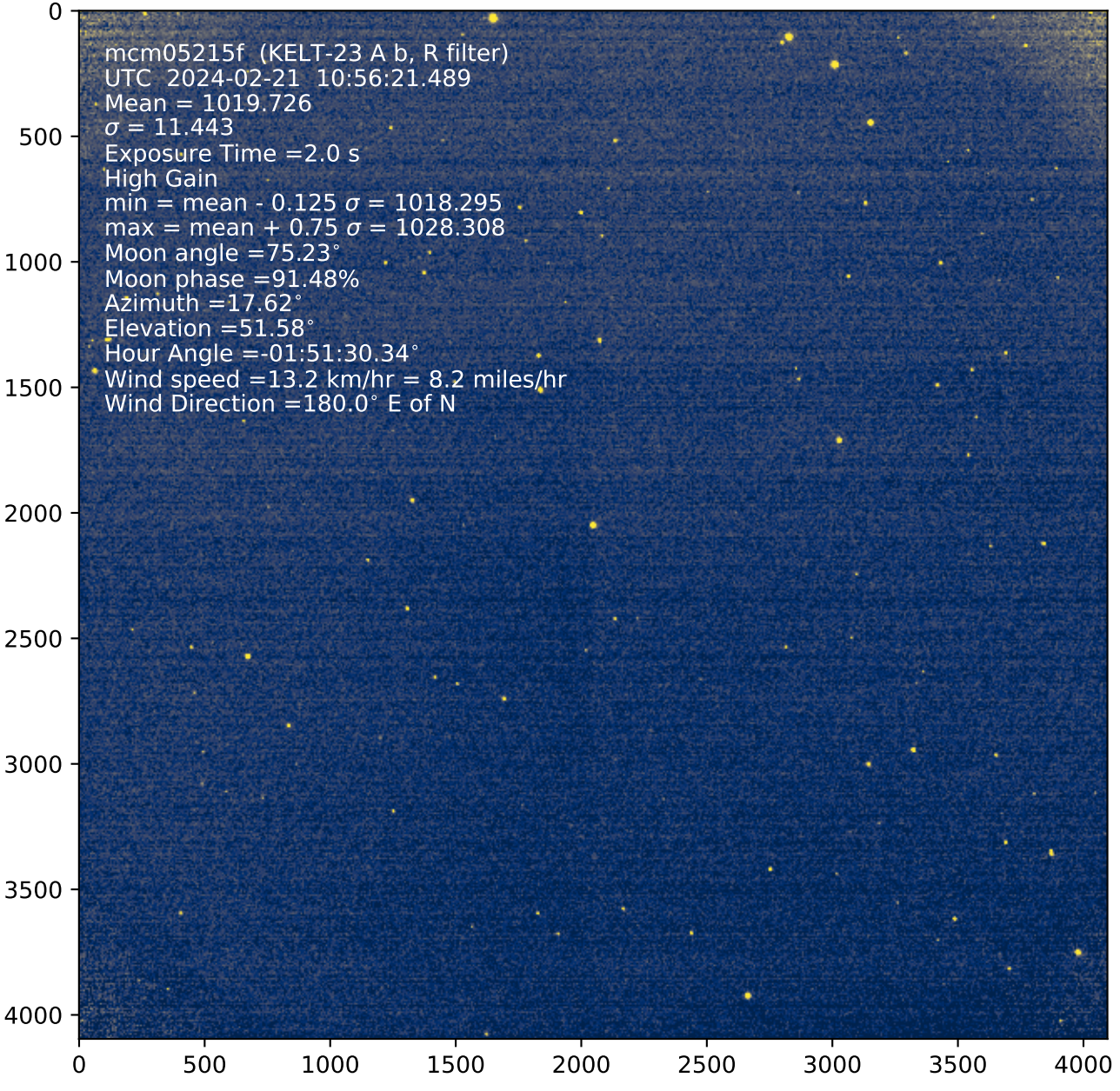
mcm05215f (KELT-23 A b, R filter)
UTC 2024-02-21 10:56:21.489
Mean = 1019.726
σ = 11.443
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1018.295
max = mean + 0.75 σ = 1028.308
Moon angle =75.23°
Moon phase =91.48%
Azimuth =17.62°
Elevation =51.58°
Hour Angle =-01:51:30.34°
Wind speed =13.2 km/hr = 8.2 miles/hr
Wind Direction =180.0° E of N
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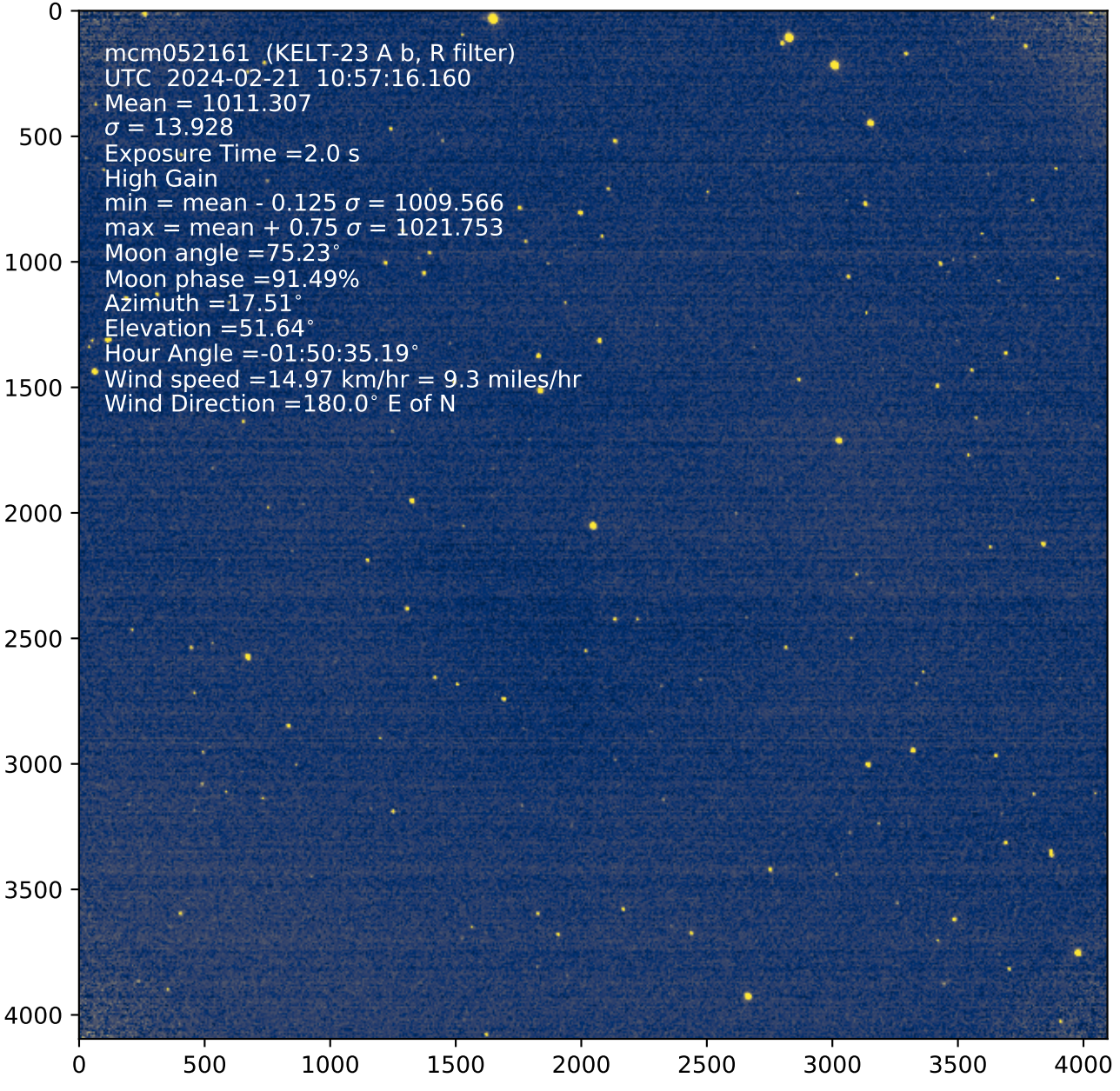
mcm052161 (KELT-23 A b, R filter)
UTC 2024-02-21 10:57:16.160
Mean = 1011.307
σ = 13.928
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1009.566
max = mean + 0.75 σ = 1021.753
Moon angle =75.23°
Moon phase =91.49%
Azimuth =17.51°
Elevation =51.64°
Hour Angle =-01:50:35.19°
Wind speed =14.97 km/hr = 9.3 miles/hr
Wind Direction =180.0° E of N
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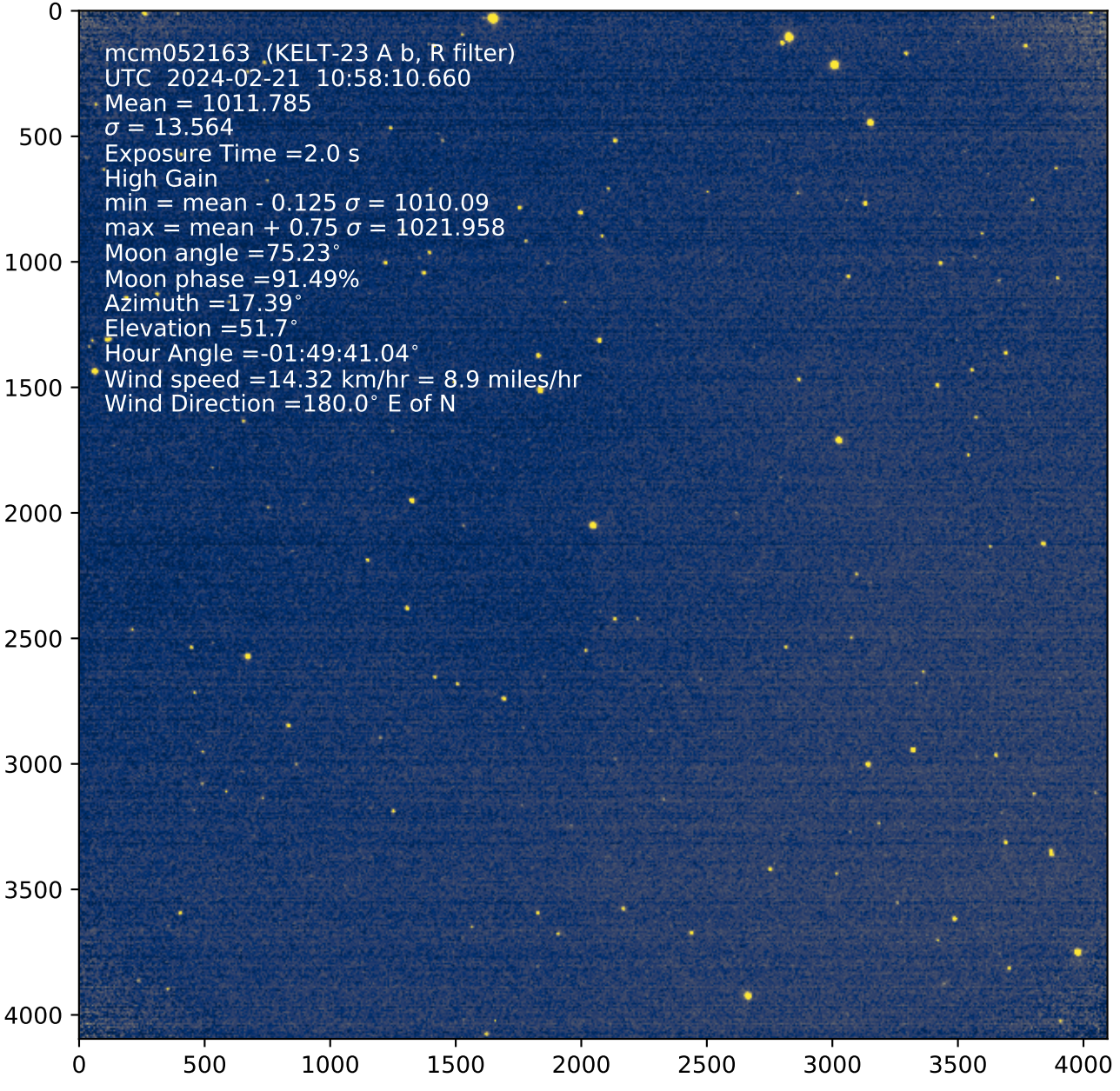
mcm052163 (KELT-23 A b, R filter)
UTC 2024-02-21 10:58:10.660
Mean = 1011.785
σ = 13.564
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1010.09
max = mean + 0.75 σ = 1021.958
Moon angle =75.23°
Moon phase =91.49%
Azimuth =17.39°
Elevation =51.7°
Hour Angle =-01:49:41.04°
Wind speed =14.32 km/hr = 8.9 miles/hr
Wind Direction =180.0° E of N
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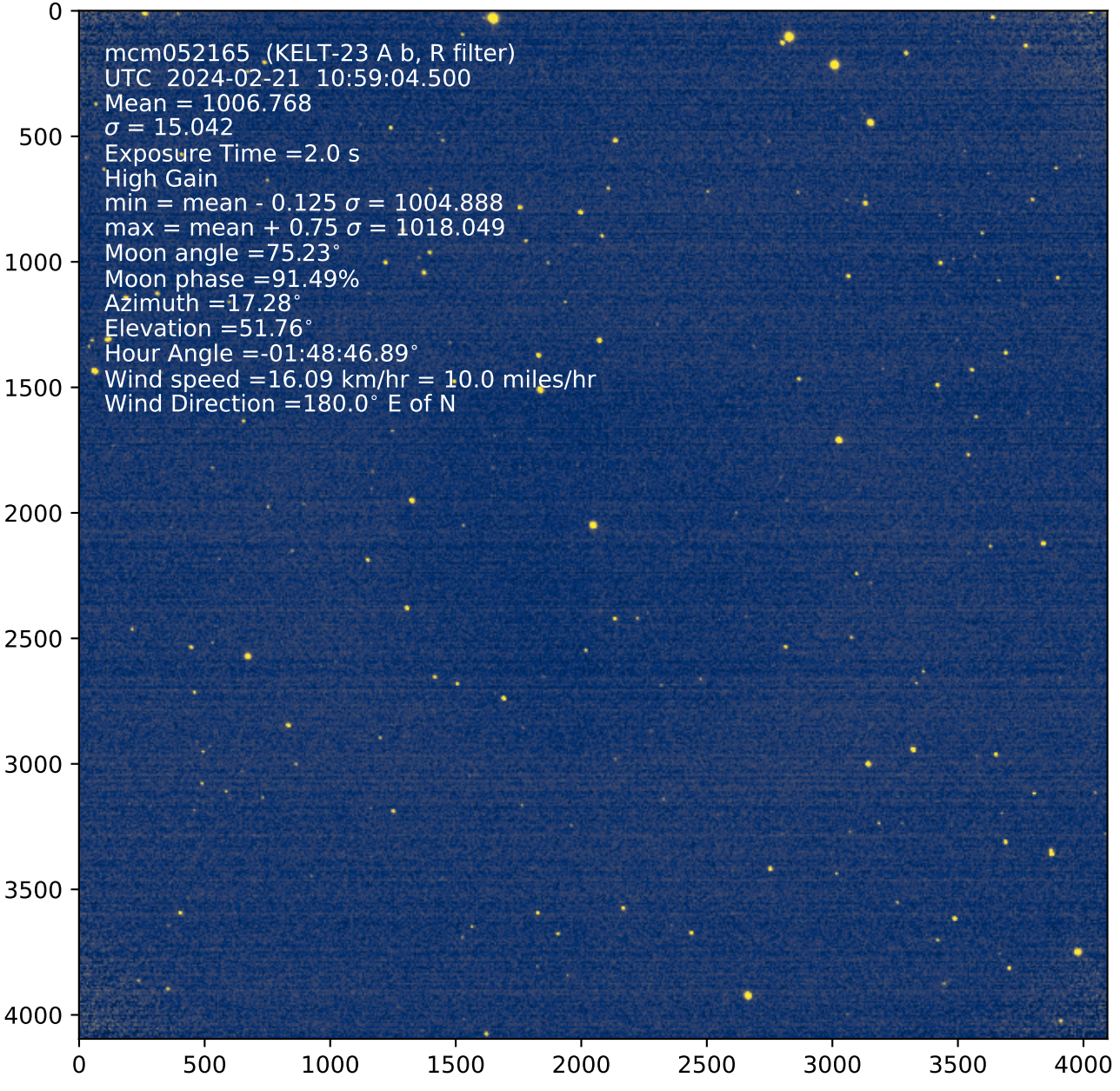
mcm052165 (KELT-23 A b, R filter)
UTC 2024-02-21 10:59:04.500
Mean = 1006.768
σ = 15.042
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1004.888
max = mean + 0.75 σ = 1018.049
Moon angle =75.23°
Moon phase =91.49%
Azimuth =17.28°
Elevation =51.76°
Hour Angle =-01:48:46.89°
Wind speed =16.09 km/hr = 10.0 miles/hr
Wind Direction =180.0° E of N
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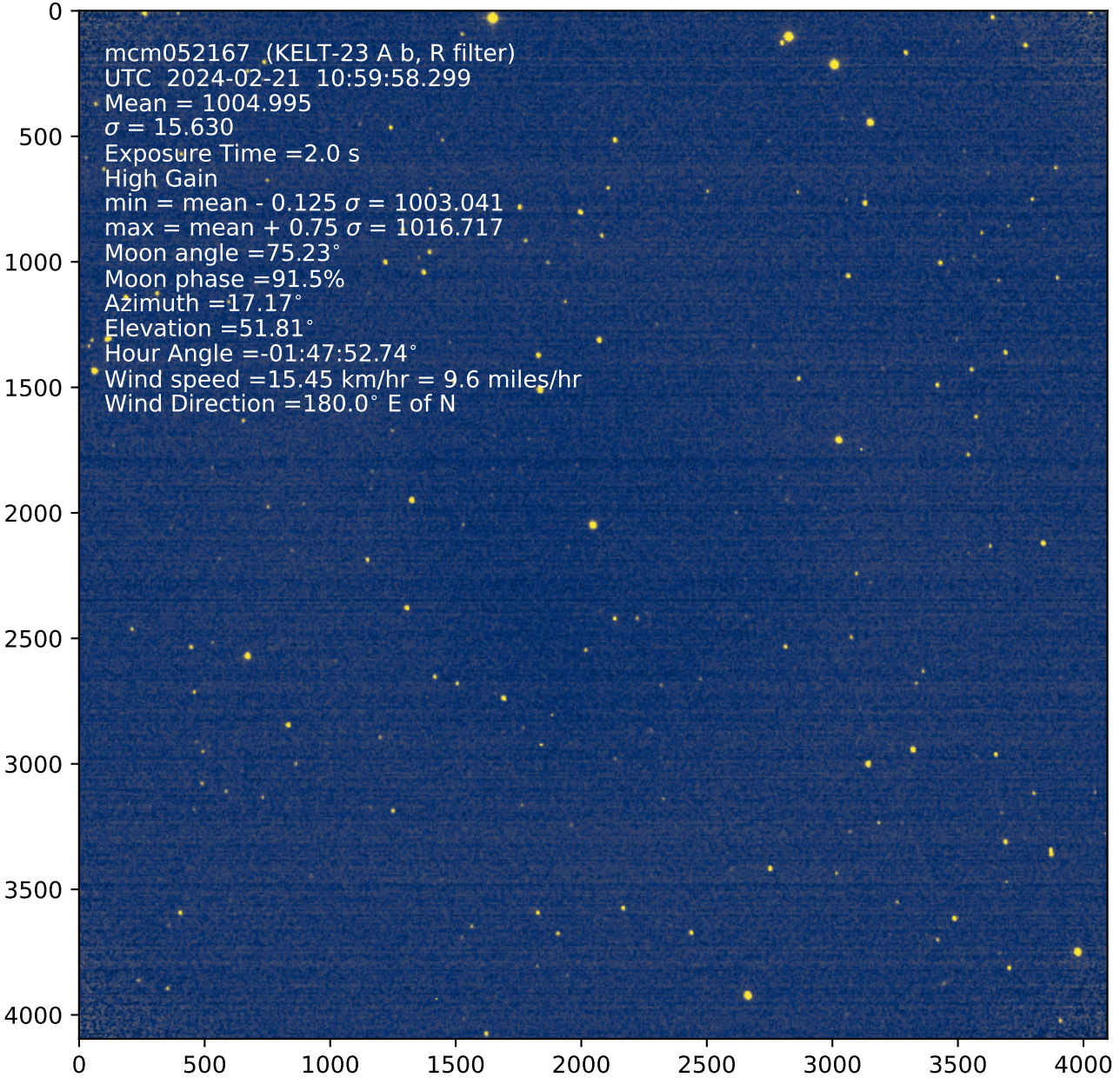
mcm052167 (KELT-23 A b, R filter)
UTC 2024-02-21 10:59:58.299
Mean = 1004.995
σ = 15.630
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1003.041
max = mean + 0.75 σ = 1016.717
Moon angle =75.23°
Moon phase =91.5%
Azimuth =17.17°
Elevation =51.81°
Hour Angle =-01:47:52.74°
Wind speed =15.45 km/hr = 9.6 miles/hr
Wind Direction =180.0° E of N
0
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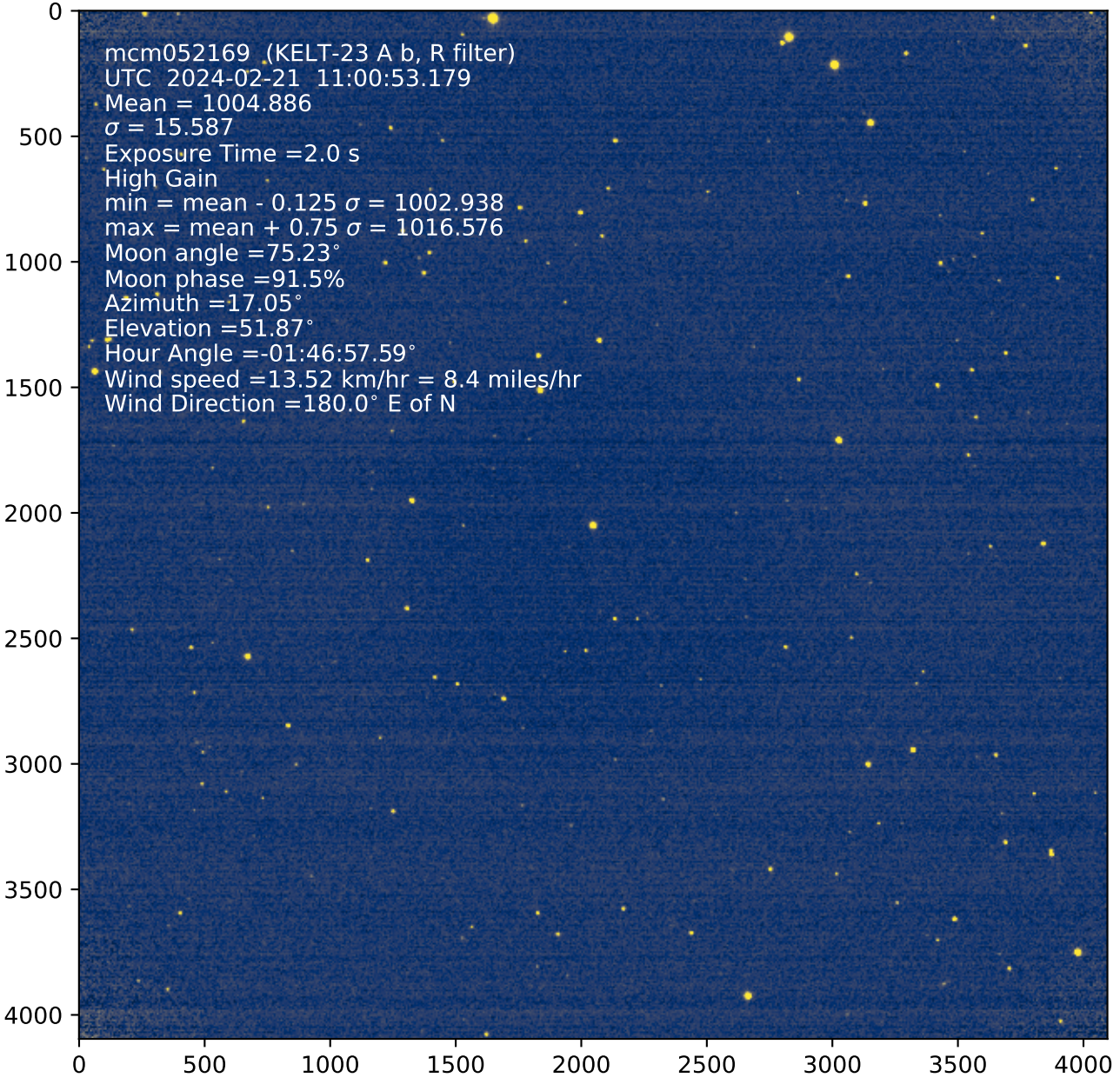
3500
4000


mcm052169 (KELT-23 A b, R filter)
UTC 2024-02-21 11:00:53.179
Mean = 1004.886
σ = 15.587
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1002.938
max = mean + 0.75 σ = 1016.576
Moon angle =75.23°
Moon phase =91.5%
Azimuth =17.05°
Elevation =51.87°
Hour Angle =-01:46:57.59°
Wind speed =13.52 km/hr = 8.4 miles/hr
Wind Direction =180.0° E of N
0
500
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1500
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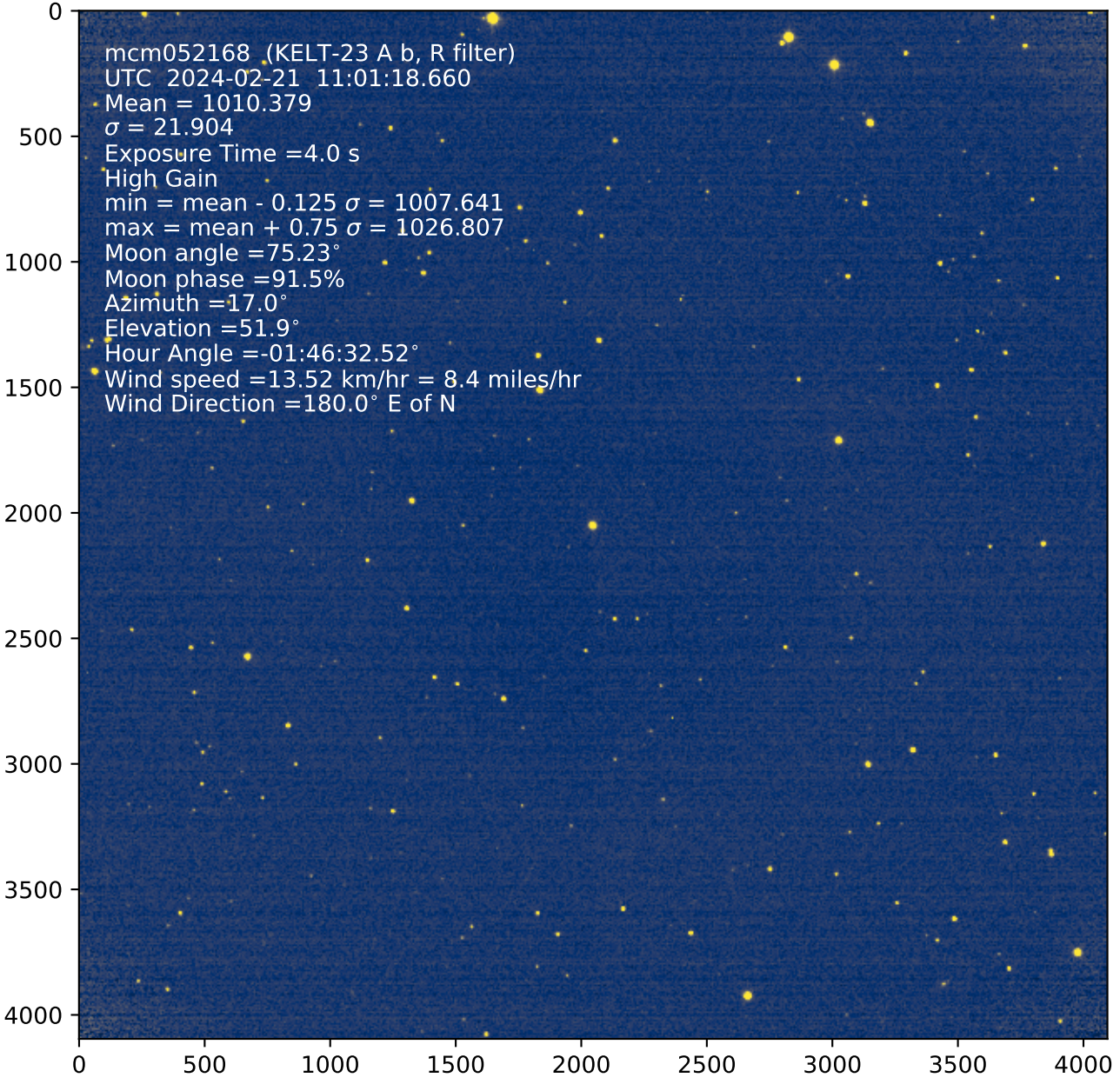
2500
3000
3500
4000


mcm052168 (KELT-23 A b, R filter)
UTC 2024-02-21 11:01:18.660
Mean = 1010.379
σ = 21.904
Exposure Time =4.0 s
High Gain
min = mean - 0.125 σ = 1007.641
max = mean + 0.75 σ = 1026.807
Moon angle =75.23˚
Moon phase =91.5%
Azimuth =17.0˚
Elevation =51.9˚
Hour Angle =-01:46:32.52˚
Wind speed =13.52 km/hr = 8.4 miles/hr
Wind Direction =180.0˚ E of N
0
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2500
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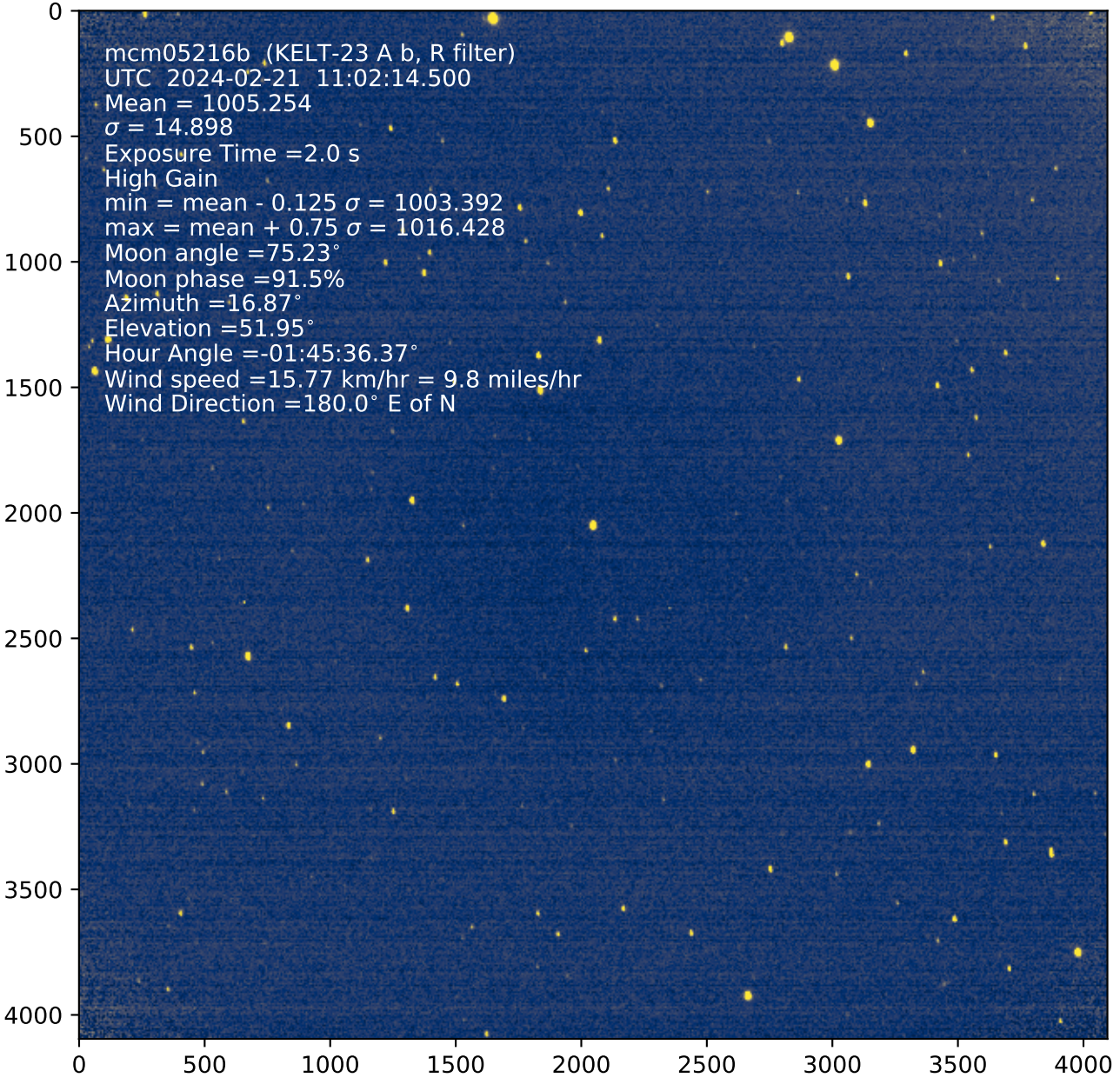
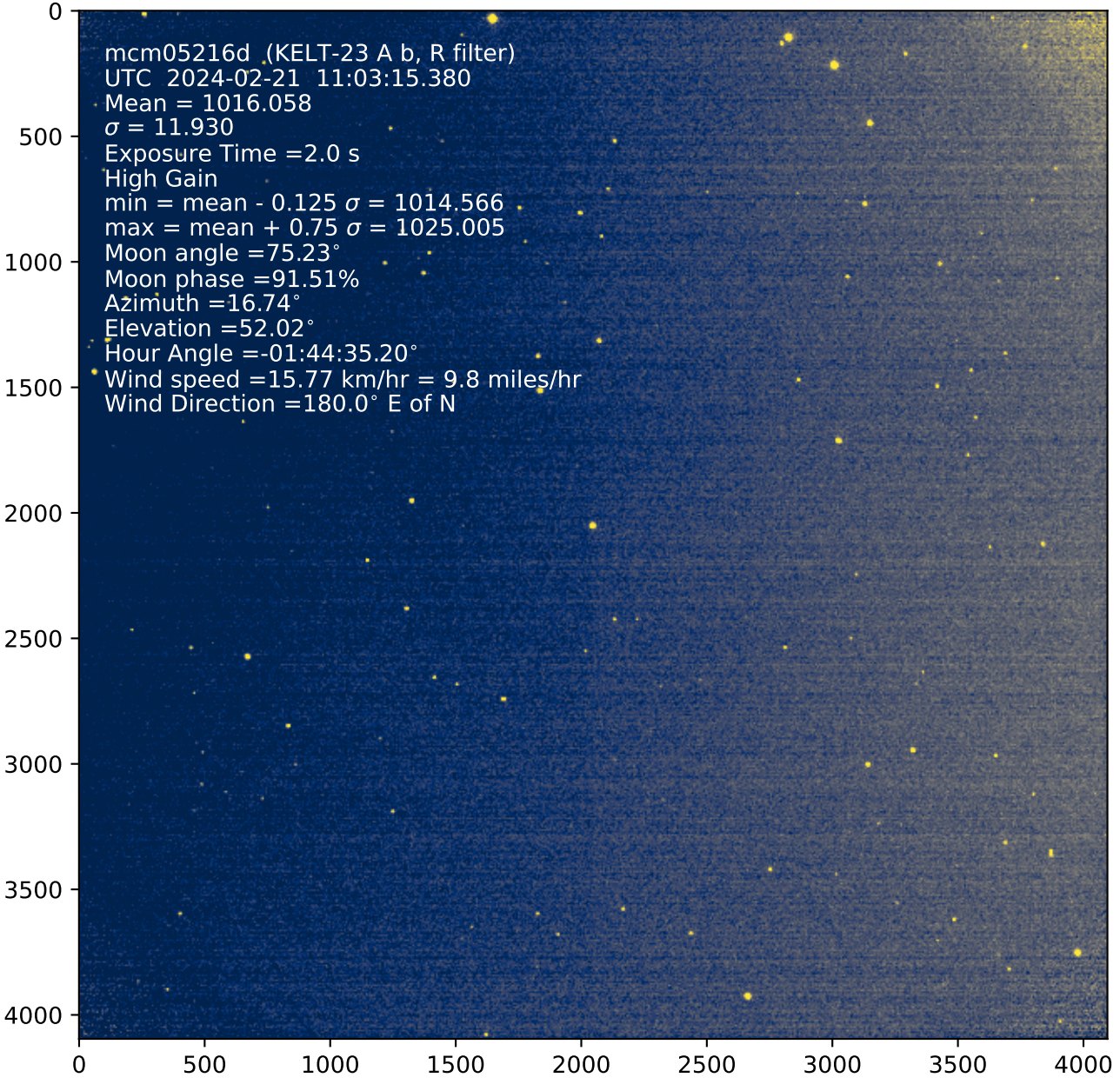
3500
4000


mcm05216b (KELT-23 A b, R filter)
UTC 2024-02-21 11:02:14.500
Mean = 1005.254
σ = 14.898
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1003.392
max = mean + 0.75 σ = 1016.428
Moon angle =75.23°
Moon phase =91.5%
Azimuth =16.87°
Elevation =51.95°
Hour Angle =-01:45:36.37°
Wind speed =15.77 km/hr = 9.8 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mcm05216d (KELT-23 A b, R filter)
UTC 2024-02-21 11:03:15.380
Mean = 1016.058
σ = 11.930
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1014.566
max = mean + 0.75 σ = 1025.005
Moon angle =75.23°
Moon phase =91.51%
Azimuth =16.74°
Elevation =52.02°
Hour Angle =-01:44:35.20°
Wind speed =15.77 km/hr = 9.8 miles/hr
Wind Direction =180.0° E of N
0
500
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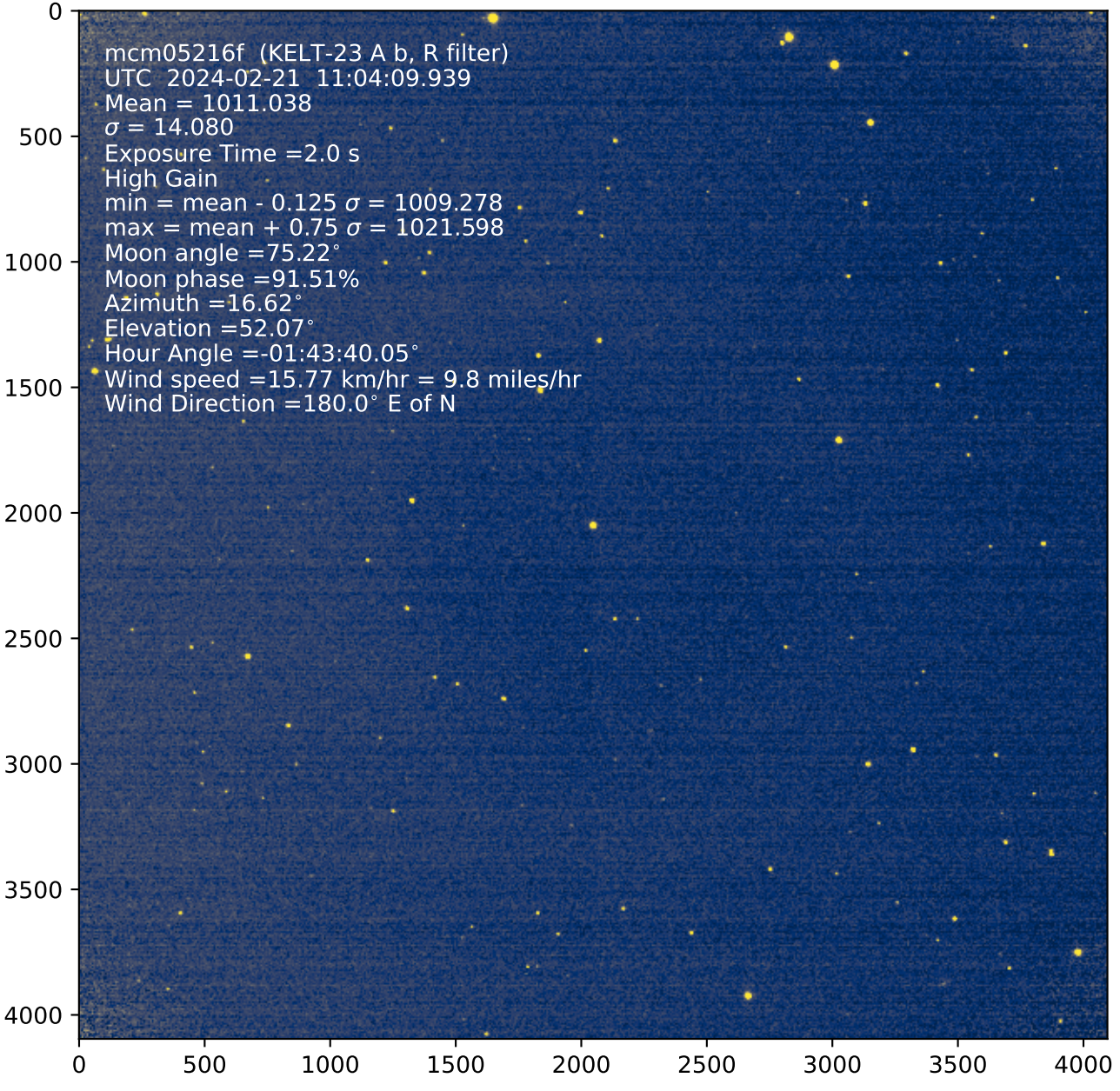
2500
3000
3500
4000


mcm05216f (KELT-23 A b, R filter)
UTC 2024-02-21 11:04:09.939
Mean = 1011.038
σ = 14.080
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1009.278
max = mean + 0.75 σ = 1021.598
Moon angle =75.22°
Moon phase =91.51%
Azimuth =16.62°
Elevation =52.07°
Hour Angle =-01:43:40.05°
Wind speed =15.77 km/hr = 9.8 miles/hr
Wind Direction =180.0° E of N
0
500
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2500
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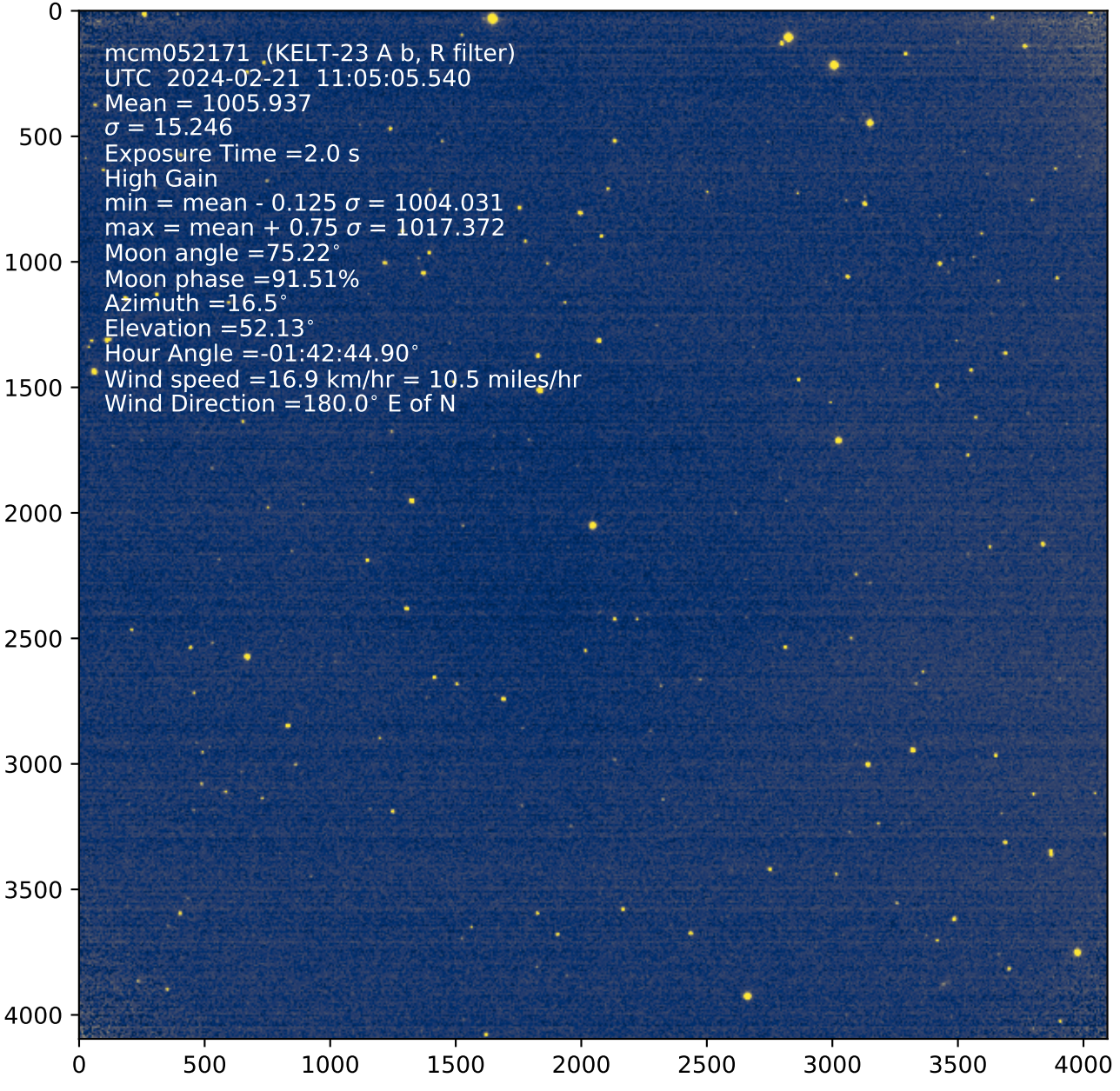
3500
4000


mcm052171 (KELT-23 A b, R filter)
UTC 2024-02-21 11:05:05.540
Mean = 1005.937
σ = 15.246
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1004.031
max = mean + 0.75 σ = 1017.372
Moon angle =75.22°
Moon phase =91.51%
Azimuth =16.5°
Elevation =52.13°
Hour Angle =-01:42:44.90°
Wind speed =16.9 km/hr = 10.5 miles/hr
Wind Direction =180.0° E of N
0
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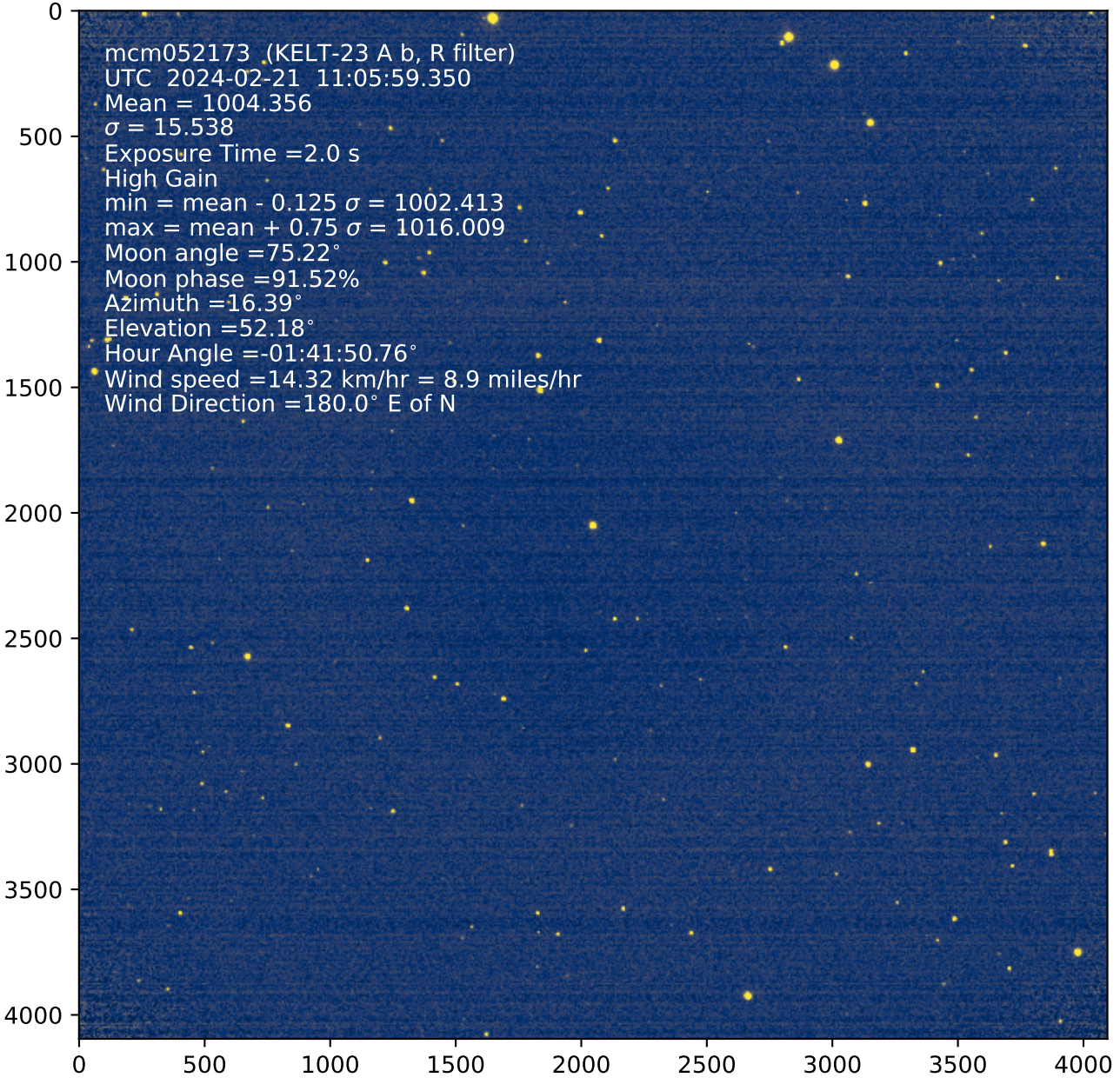
3500
4000


mcm052173 (KELT-23 A b, R filter)
UTC 2024-02-21 11:05:59.350
Mean = 1004.356
σ = 15.538
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1002.413
max = mean + 0.75 σ = 1016.009
Moon angle =75.22°
Moon phase =91.52%
Azimuth =16.39°
Elevation =52.18°
Hour Angle =-01:41:50.76°
Wind speed =14.32 km/hr = 8.9 miles/hr
Wind Direction =180.0° E of N
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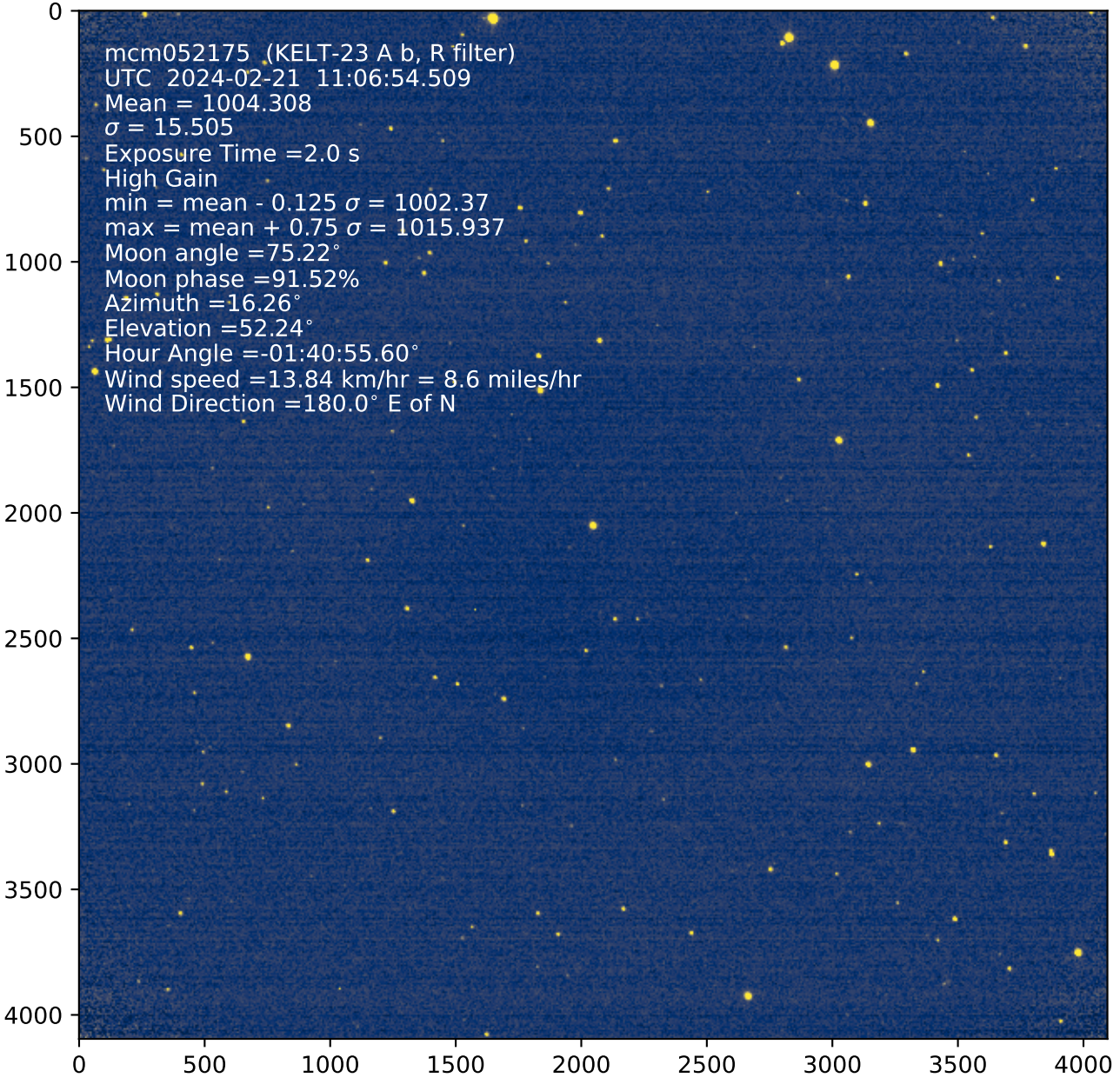
2000
2500
3000
3500
4000


mcm052175 (KELT-23 A b, R filter)
UTC 2024-02-21 11:06:54.509
Mean = 1004.308
σ = 15.505
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1002.37
max = mean + 0.75 σ = 1015.937
Moon angle =75.22°
Moon phase =91.52%
Azimuth =16.26°
Elevation =52.24°
Hour Angle =-01:40:55.60°
Wind speed =13.84 km/hr = 8.6 miles/hr
Wind Direction =180.0° E of N
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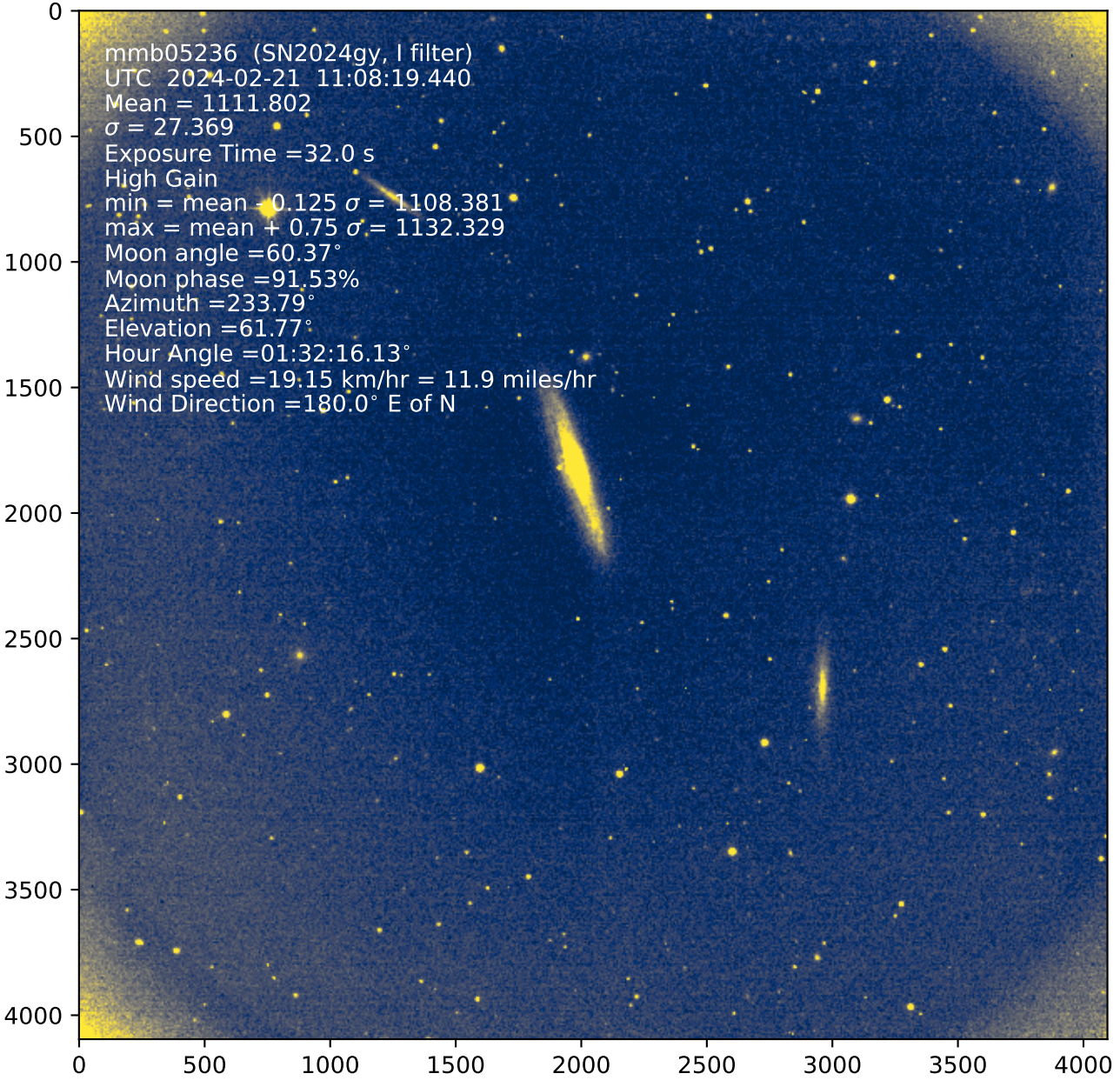
2500
3000
3500
4000


mmb05236 (SN2024gy, I filter)
UTC 2024-02-21 11:08:19.440
Mean = 1111.802
σ = 27.369
Exposure Time =32.0 s
High Gain
min = mean - 0.125 σ = 1108.381
max = mean + 0.75 σ = 1132.329
Moon angle =60.37°
Moon phase =91.53%
Azimuth =233.79°
Elevation =61.77°
Hour Angle =01:32:16.13°
Wind speed =19.15 km/hr = 11.9 miles/hr
Wind Direction =180.0° E of N
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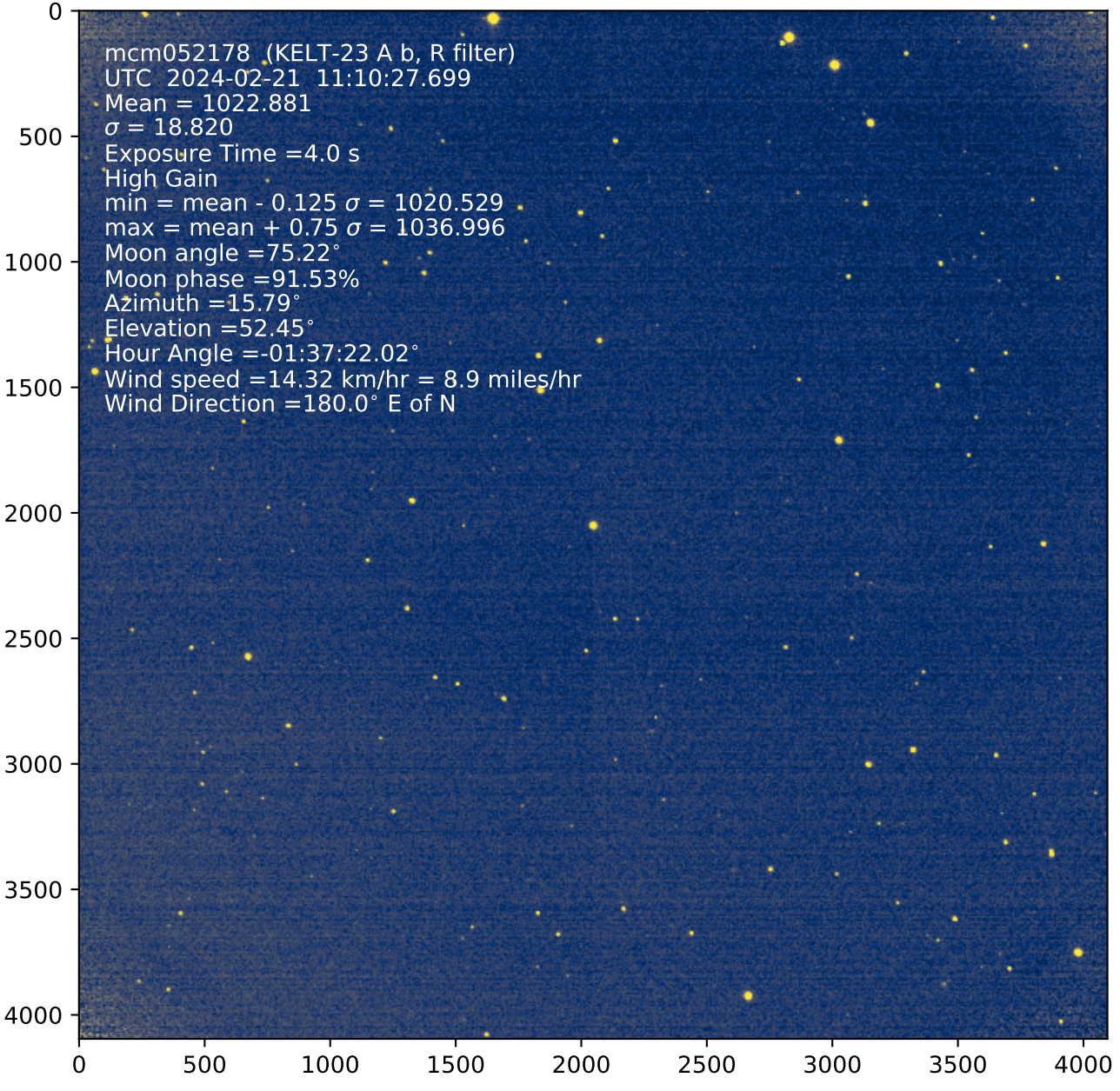
3500
4000


mcm052178 (KELT-23 A b, R filter)
UTC 2024-02-21 11:10:27.699
Mean = 1022.881
σ = 18.820
Exposure Time =4.0 s
High Gain
min = mean - 0.125 σ = 1020.529
max = mean + 0.75 σ = 1036.996
Moon angle =75.22°
Moon phase =91.53%
Azimuth =15.79°
Elevation =52.45°
Hour Angle =-01:37:22.02°
Wind speed =14.32 km/hr = 8.9 miles/hr
Wind Direction =180.0° E of N
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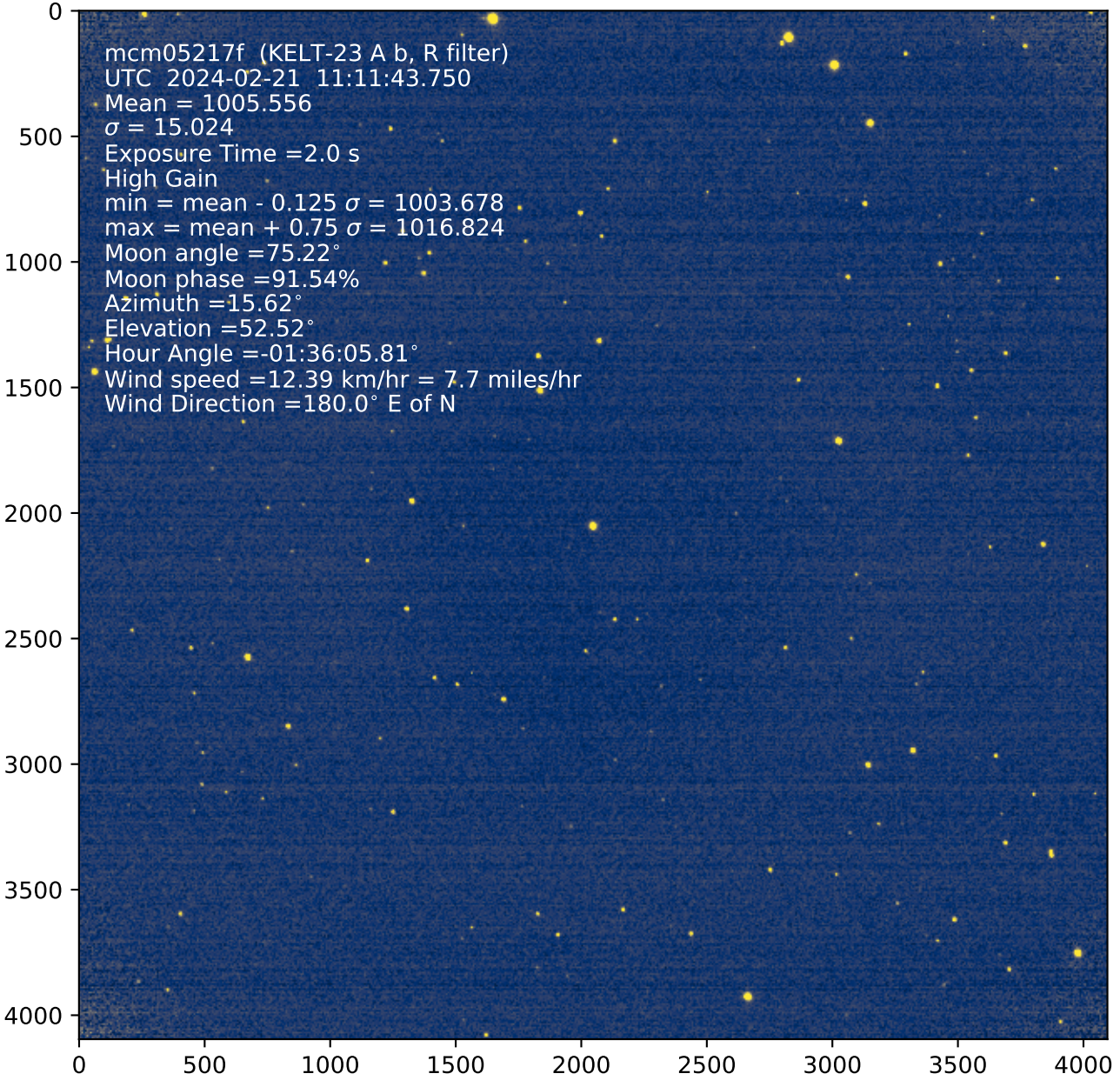
mcm05217f (KELT-23 A b, R filter)
UTC 2024-02-21 11:11:43.750
Mean = 1005.556
σ = 15.024
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1003.678
max = mean + 0.75 σ = 1016.824
Moon angle =75.22°
Moon phase =91.54%
Azimuth =15.62°
Elevation =52.52°
Hour Angle =-01:36:05.81°
Wind speed =12.39 km/hr = 7.7 miles/hr
Wind Direction =180.0° E of N
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3500
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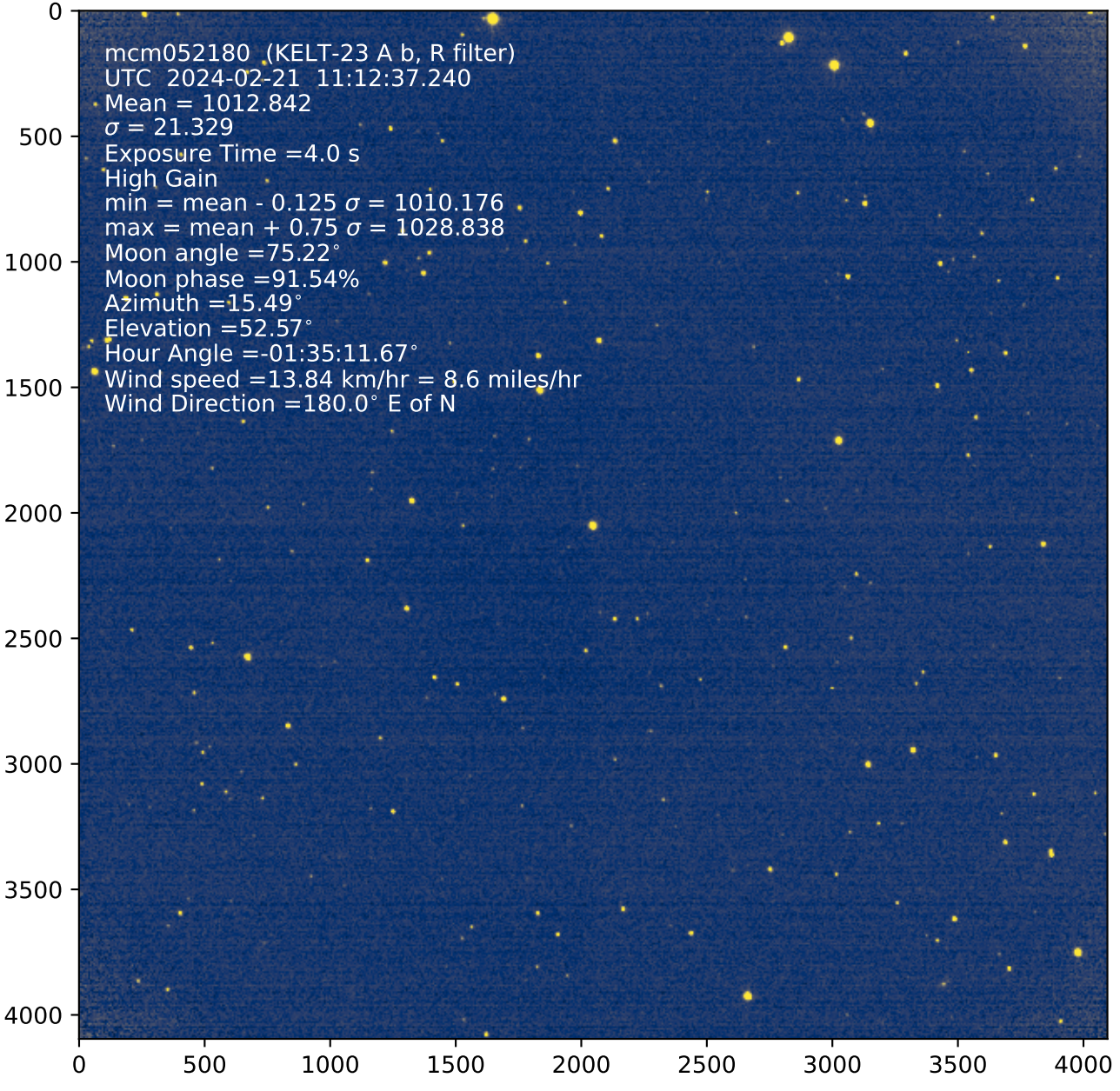
mcm052180 (KELT-23 A b, R filter)
UTC 2024-02-21 11:12:37.240
Mean = 1012.842
σ = 21.329
Exposure Time =4.0 s
High Gain
min = mean - 0.125 σ = 1010.176
max = mean + 0.75 σ = 1028.838
Moon angle =75.22°
Moon phase =91.54%
Azimuth =15.49°
Elevation =52.57°
Hour Angle =-01:35:11.67°
Wind speed =13.84 km/hr = 8.6 miles/hr
Wind Direction =180.0° E of N
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3500
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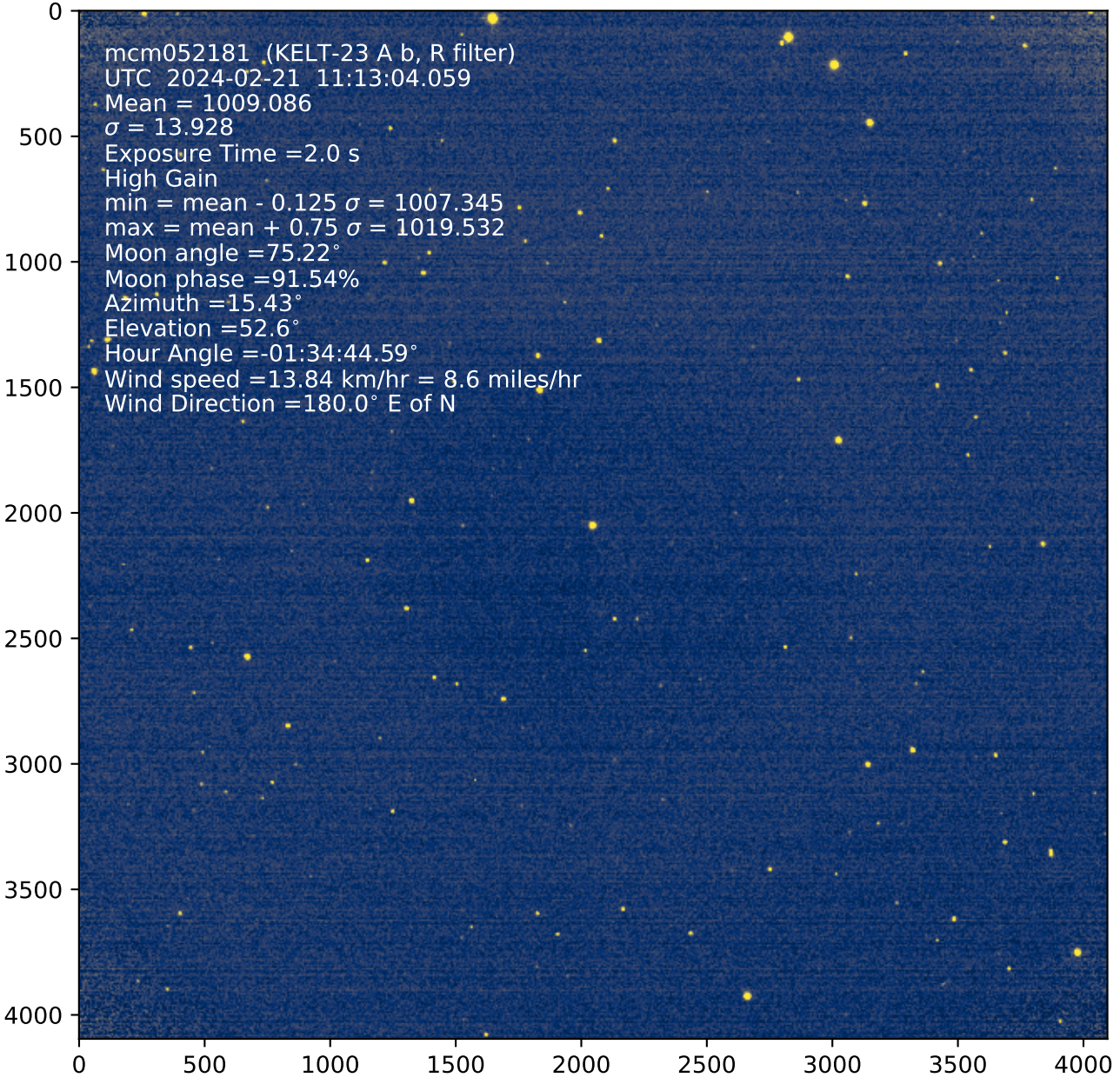
mcm052181 (KELT-23 A b, R filter)
UTC 2024-02-21 11:13:04.059
Mean = 1009.086
σ = 13.928
Exposure Time =2.0 s
High Gain
min = mean - 0.125 σ = 1007.345
max = mean + 0.75 σ = 1019.532
Moon angle =75.22°
Moon phase =91.54%
Azimuth =15.43°
Elevation =52.6°
Hour Angle =-01:34:44.59°
Wind speed =13.84 km/hr = 8.6 miles/hr
Wind Direction =180.0° E of N
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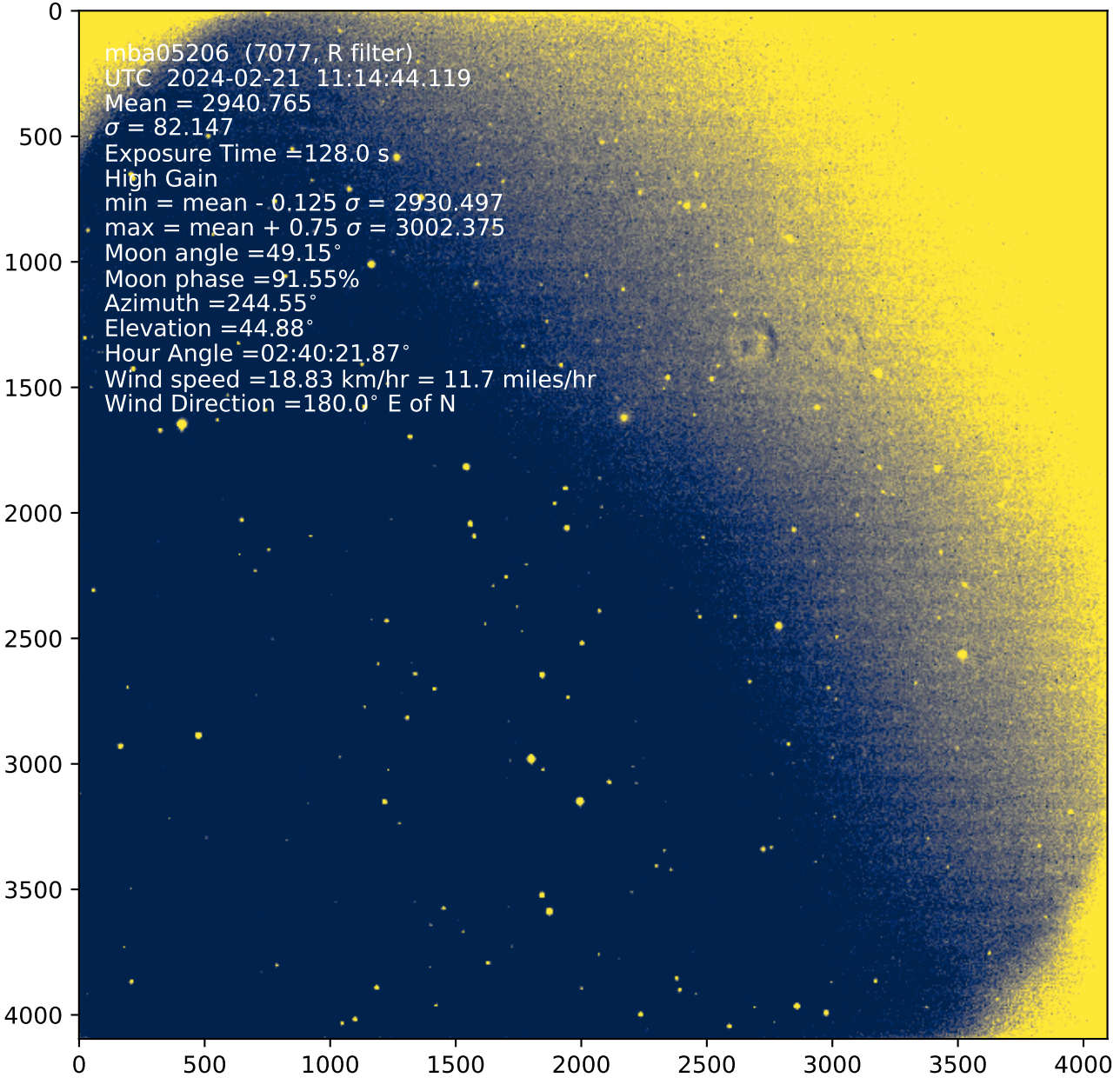
2500
3000
3500
4000


mba05206 (7077, R filter)
UTC 2024-02-21 11:14:44.119
Mean = 2940.765
σ = 82.147
Exposure Time =128.0 s
High Gain
min = mean - 0.125 σ = 2930.497
max = mean + 0.75 σ = 3002.375
Moon angle =49.15°
Moon phase =91.55%
Azimuth =244.55°
Elevation =44.88°
Hour Angle =02:40:21.87°
Wind speed =18.83 km/hr = 11.7 miles/hr
Wind Direction =180.0° E of N
0
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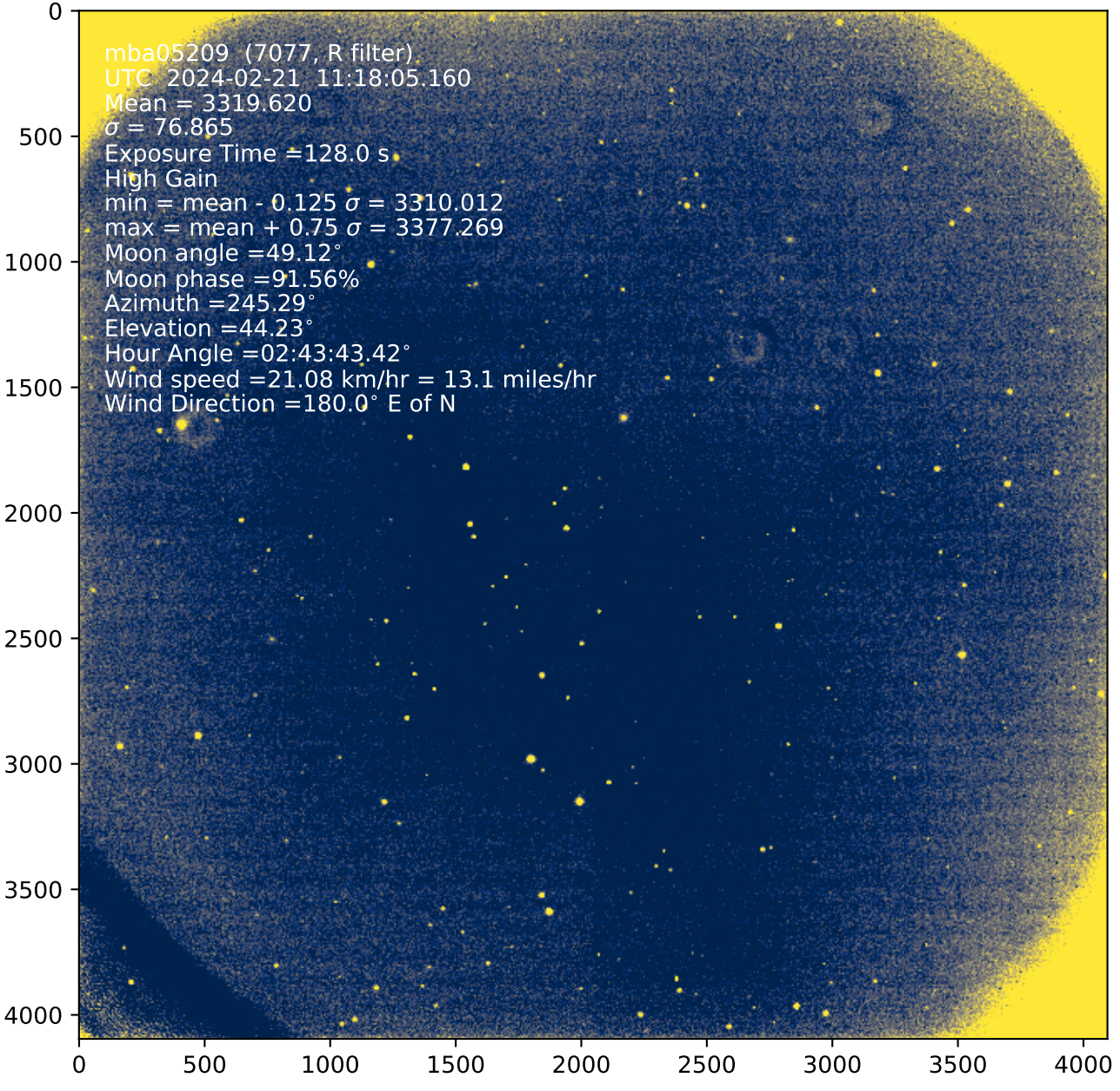
2500
3000
3500
4000


mba05209 (7077, R filter)
UTC 2024-02-21 11:18:05.160
Mean = 3319.620
σ = 76.865
Exposure Time =128.0 s
High Gain
min = mean - 0.125 σ = 3310.012
max = mean + 0.75 σ = 3377.269
Moon angle =49.12°
Moon phase =91.56%
Azimuth =245.29°
Elevation =44.23°
Hour Angle =02:43:43.42°
Wind speed =21.08 km/hr = 13.1 miles/hr
Wind Direction =180.0° E of N
0
500
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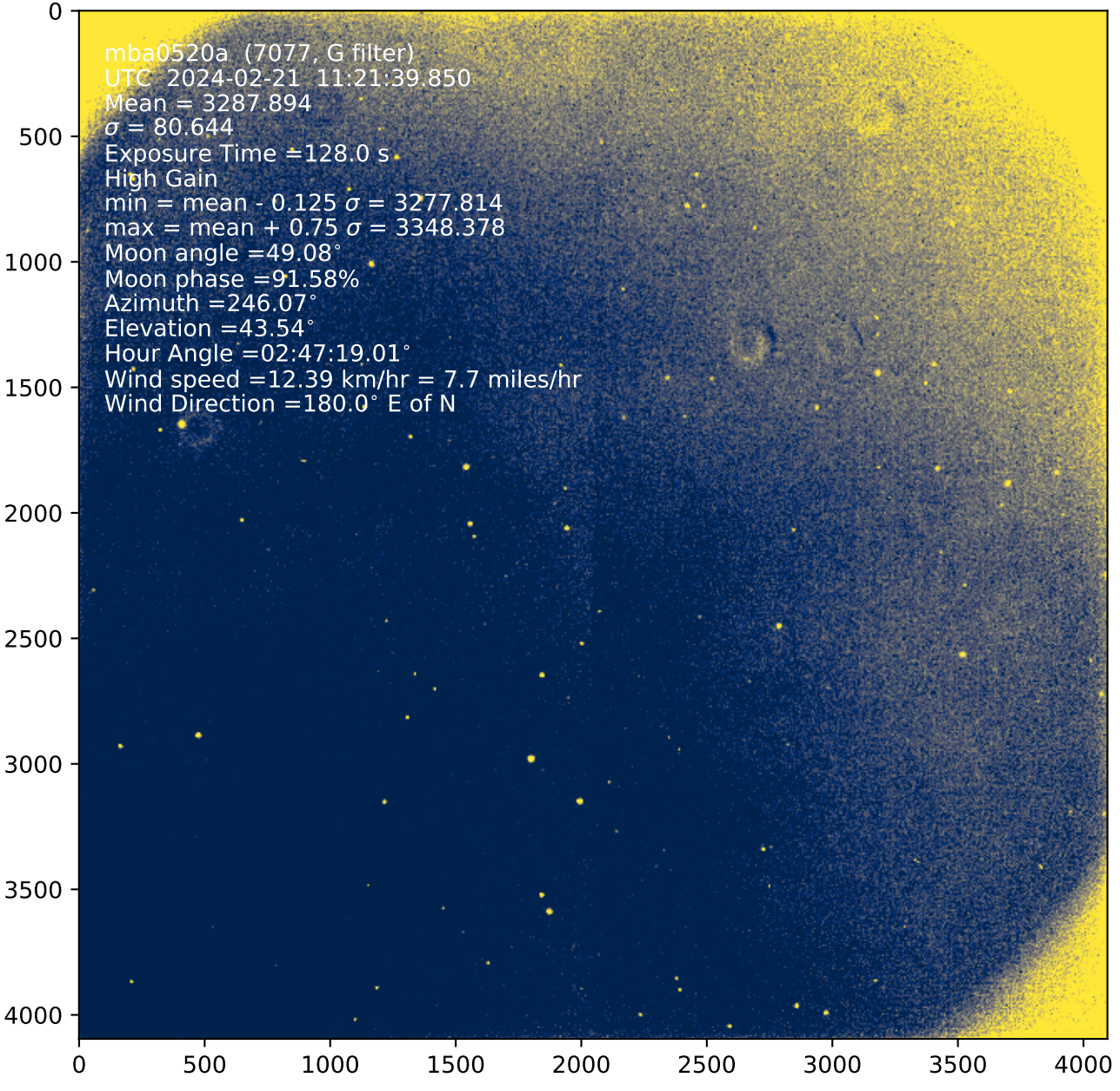
2500
3000
3500
4000


mba0520a (7077, G filter)
UTC 2024-02-21 11:21:39.850
Mean = 3287.894
σ = 80.644
Exposure Time =128.0 s
High Gain
min = mean - 0.125 σ = 3277.814
max = mean + 0.75 σ = 3348.378
Moon angle =49.08°
Moon phase =91.58%
Azimuth =246.07°
Elevation =43.54°
Hour Angle =02:47:19.01°
Wind speed =12.39 km/hr = 7.7 miles/hr
Wind Direction =180.0° E of N
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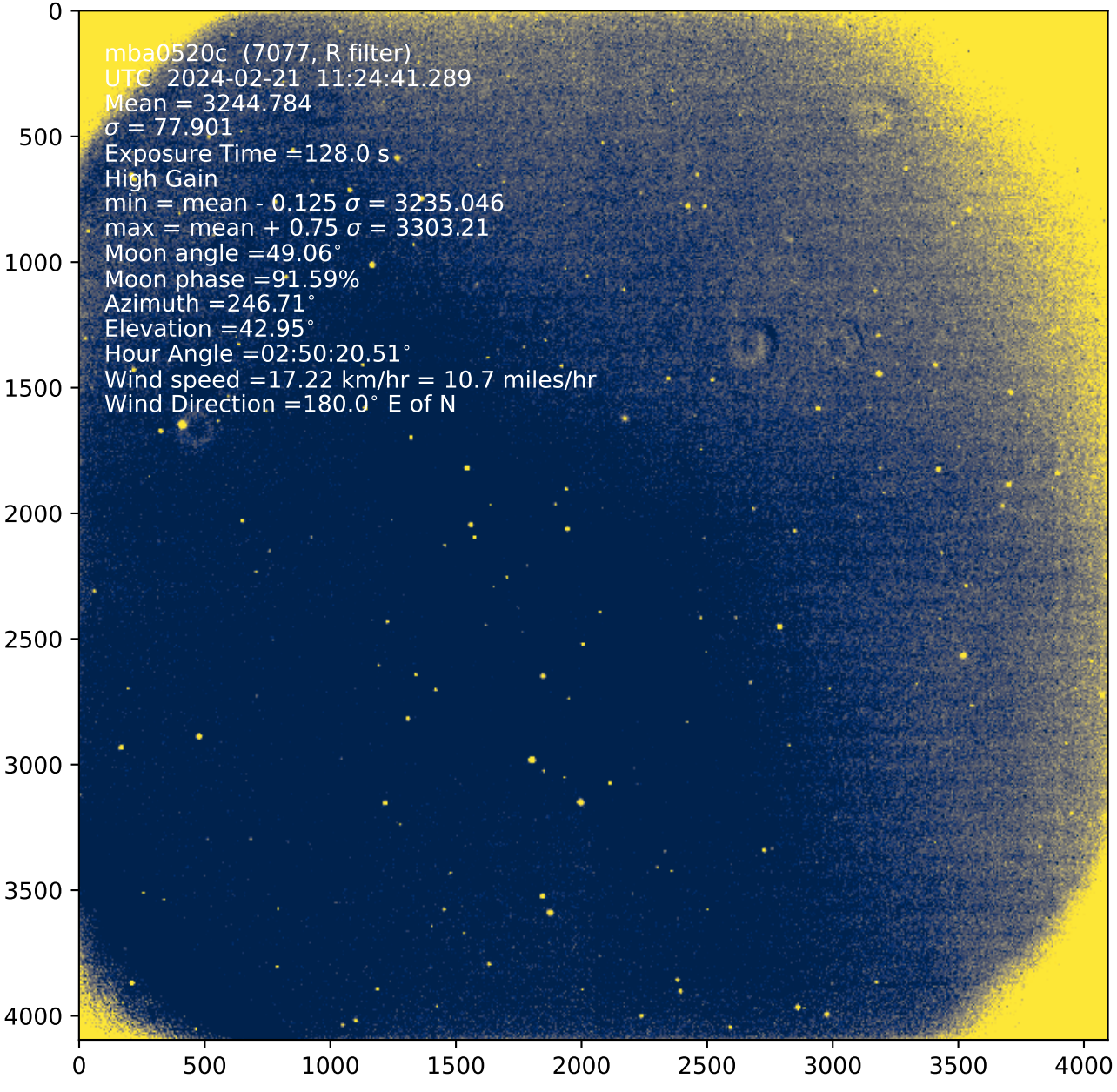
mba0520c (7077, R filter)
UTC 2024-02-21 11:24:41.289
Mean = 3244.784
σ = 77.901
Exposure Time =128.0 s
High Gain
min = mean - 0.125 σ = 3235.046
max = mean + 0.75 σ = 3303.21
Moon angle =49.06°
Moon phase =91.59%
Azimuth =246.71°
Elevation =42.95°
Hour Angle =02:50:20.51°
Wind speed =17.22 km/hr = 10.7 miles/hr
Wind Direction =180.0° E of N
0
500
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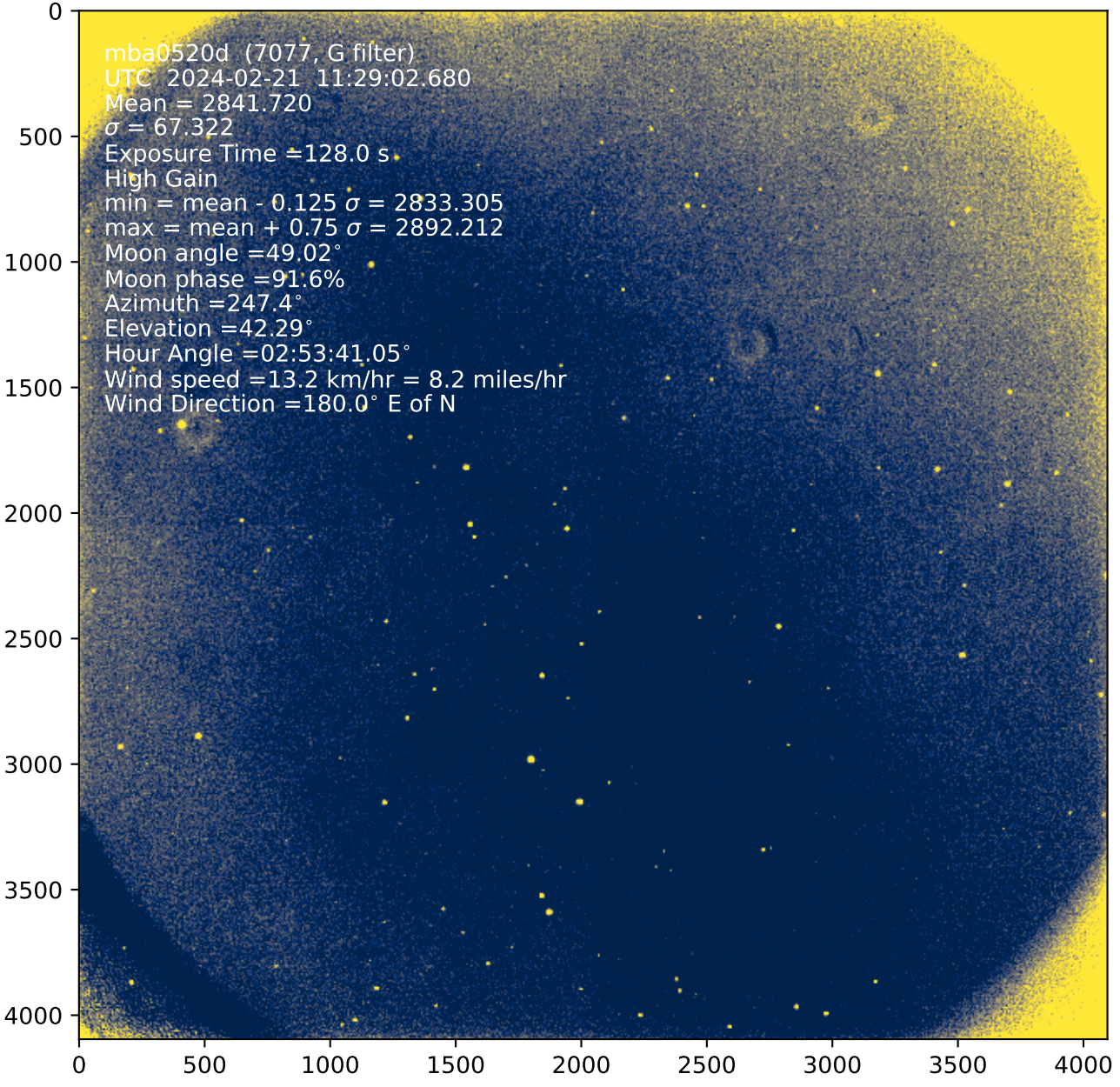
2500
3000
3500
4000


mba0520d (7077, G filter)
UTC 2024-02-21 11:29:02.680
Mean = 2841.720
σ = 67.322
Exposure Time =128.0 s
High Gain
min = mean - 0.125 σ = 2833.305
max = mean + 0.75 σ = 2892.212
Moon angle =49.02°
Moon phase =91.6%
Azimuth =247.4°
Elevation =42.29°
Hour Angle =02:53:41.05°
Wind speed =13.2 km/hr = 8.2 miles/hr
Wind Direction =180.0° E of N
0
500
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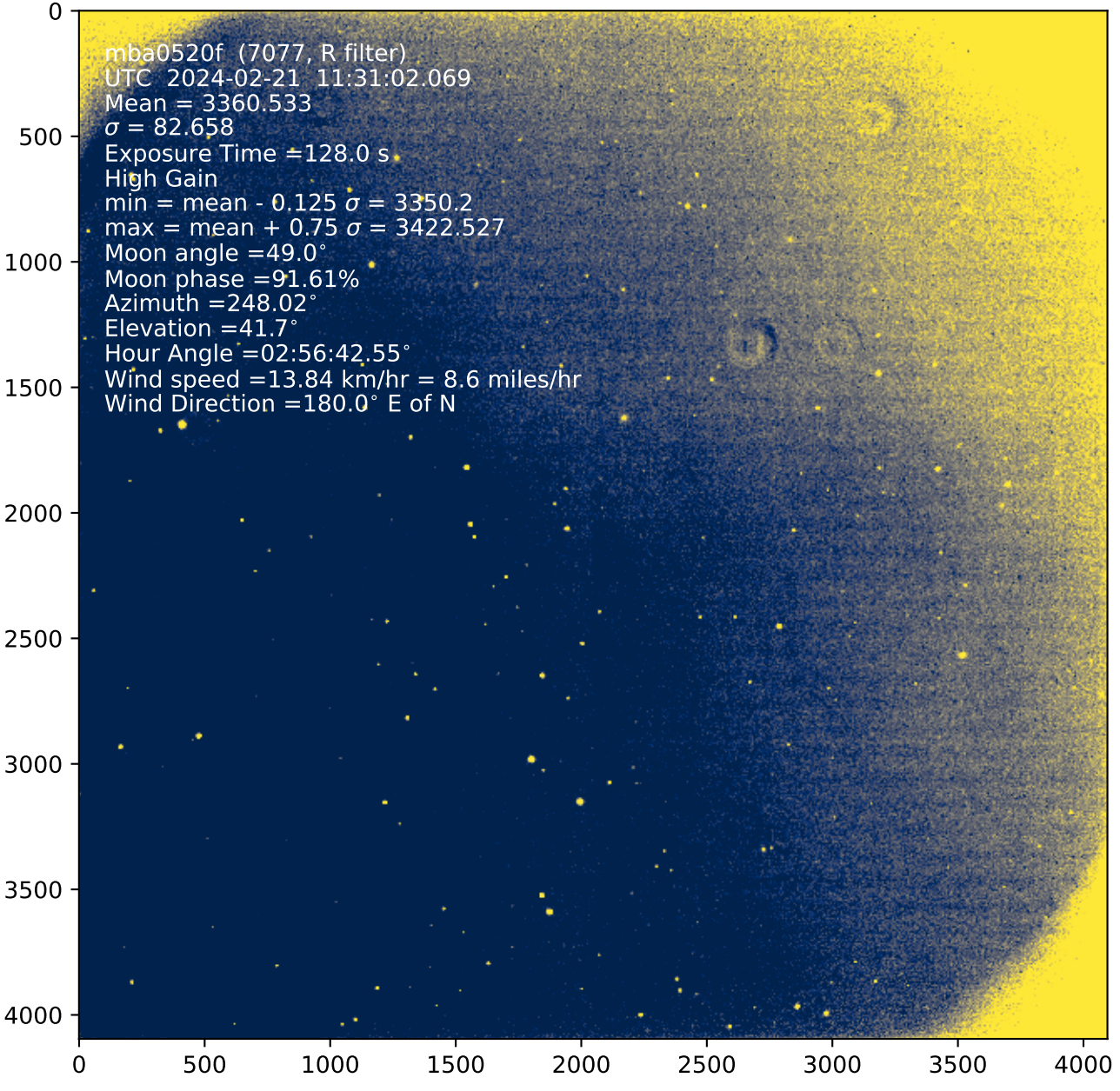
2500
3000
3500
4000


mba0520f (7077, R filter)
UTC 2024-02-21 11:31:02.069
Mean = 3360.533
σ = 82.658
Exposure Time =128.0 s
High Gain
min = mean - 0.125 σ = 3350.2
max = mean + 0.75 σ = 3422.527
Moon angle =49.0˚
Moon phase =91.61%
Azimuth =248.02˚
Elevation =41.7˚
Hour Angle =02:56:42.55˚
Wind speed =13.84 km/hr = 8.6 miles/hr
Wind Direction =180.0˚ E of N
0
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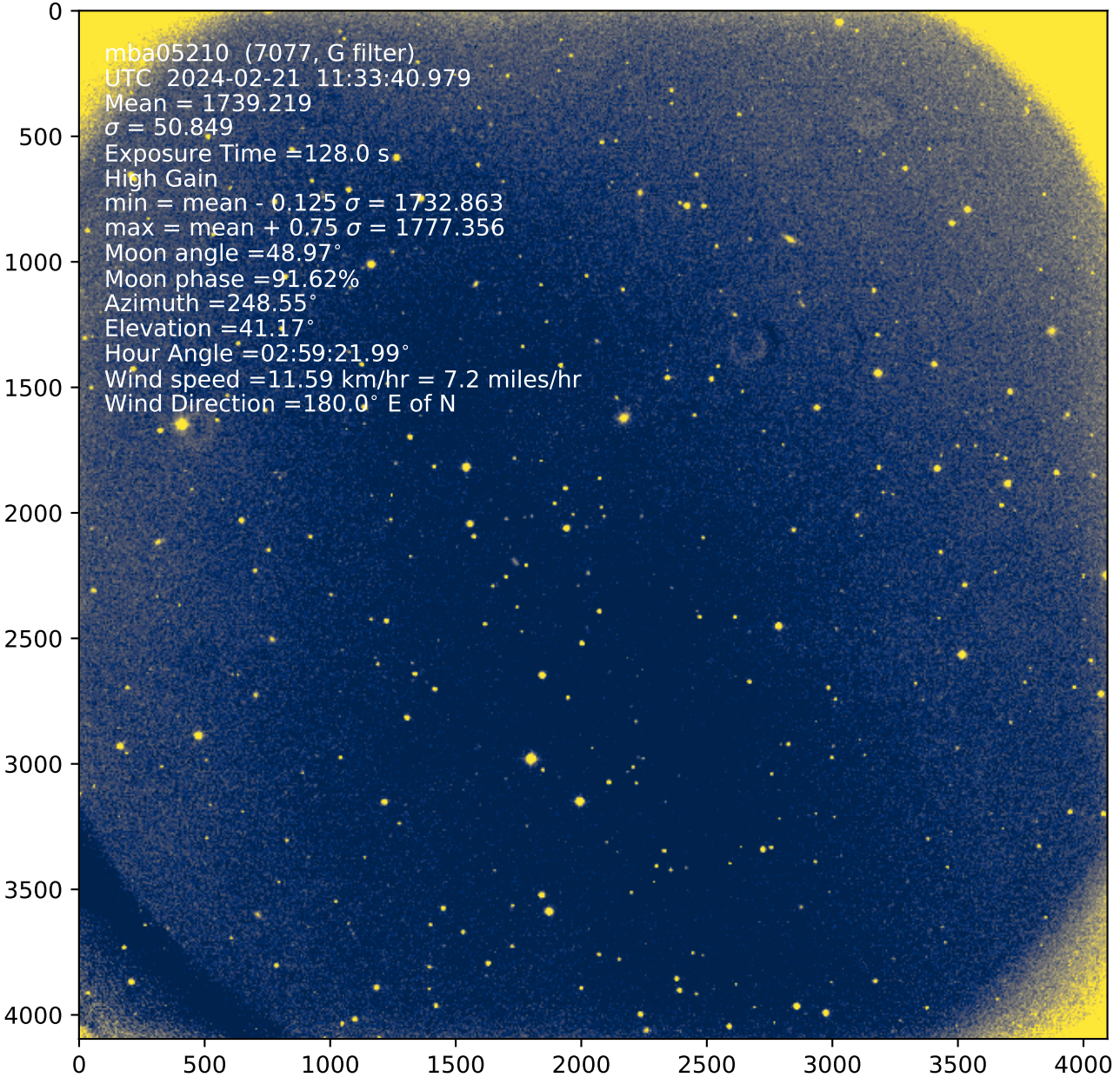
mba05210 (7077, G filter)
UTC 2024-02-21 11:33:40.979
Mean = 1739.219
σ = 50.849
Exposure Time =128.0 s
High Gain
min = mean - 0.125 σ = 1732.863
max = mean + 0.75 σ = 1777.356
Moon angle =48.97°
Moon phase =91.62%
Azimuth =248.55°
Elevation =41.17°
Hour Angle =02:59:21.99°
Wind speed =11.59 km/hr = 7.2 miles/hr
Wind Direction =180.0° E of N
0
500
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2500
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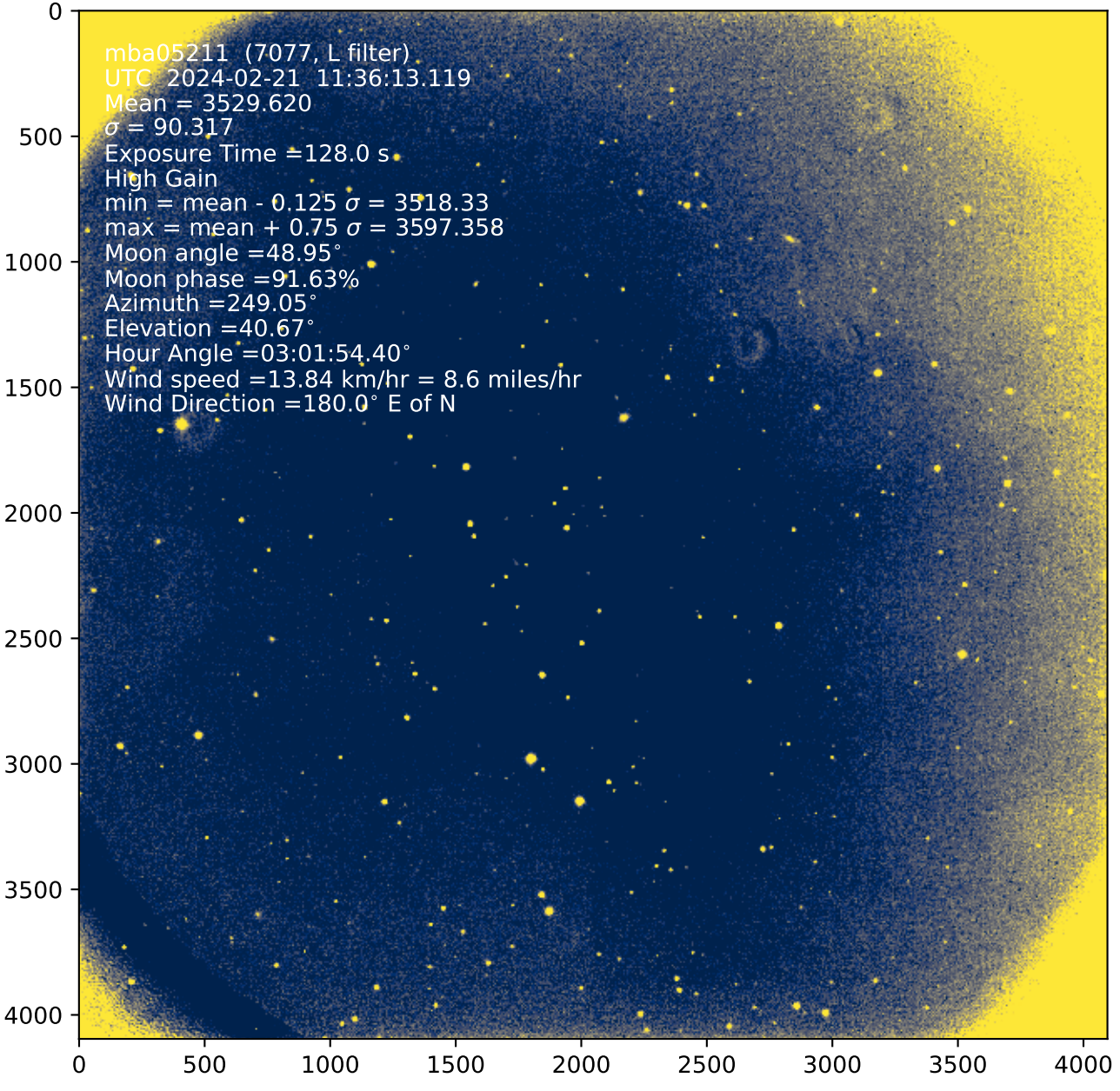
3500
4000


mba05211 (7077, L filter)
UTC 2024-02-21 11:36:13.119
Mean = 3529.620
σ = 90.317
Exposure Time =128.0 s
High Gain
min = mean - 0.125 σ = 3518.33
max = mean + 0.75 σ = 3597.358
Moon angle =48.95°
Moon phase =91.63%
Azimuth =249.05°
Elevation =40.67°
Hour Angle =03:01:54.40°
Wind speed =13.84 km/hr = 8.6 miles/hr
Wind Direction =180.0° E of N
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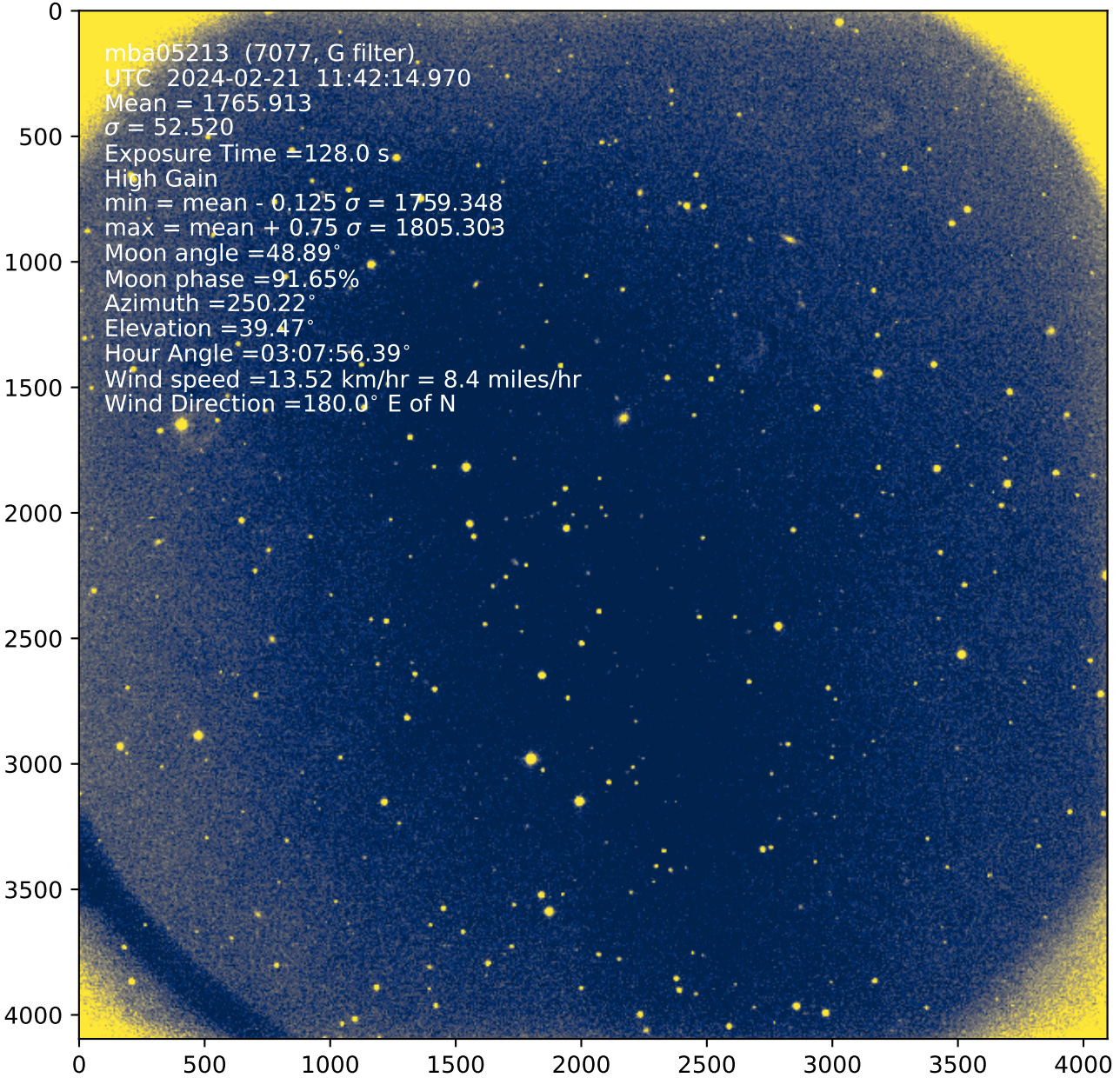
mba05213 (7077, G filter)
UTC 2024-02-21 11:42:14.970
Mean = 1765.913
σ = 52.520
Exposure Time =128.0 s
High Gain
min = mean - 0.125 σ = 1759.348
max = mean + 0.75 σ = 1805.303
Moon angle =48.89°
Moon phase =91.65%
Azimuth =250.22°
Elevation =39.47°
Hour Angle =03:07:56.39°
Wind speed =13.52 km/hr = 8.4 miles/hr
Wind Direction =180.0° E of N
0
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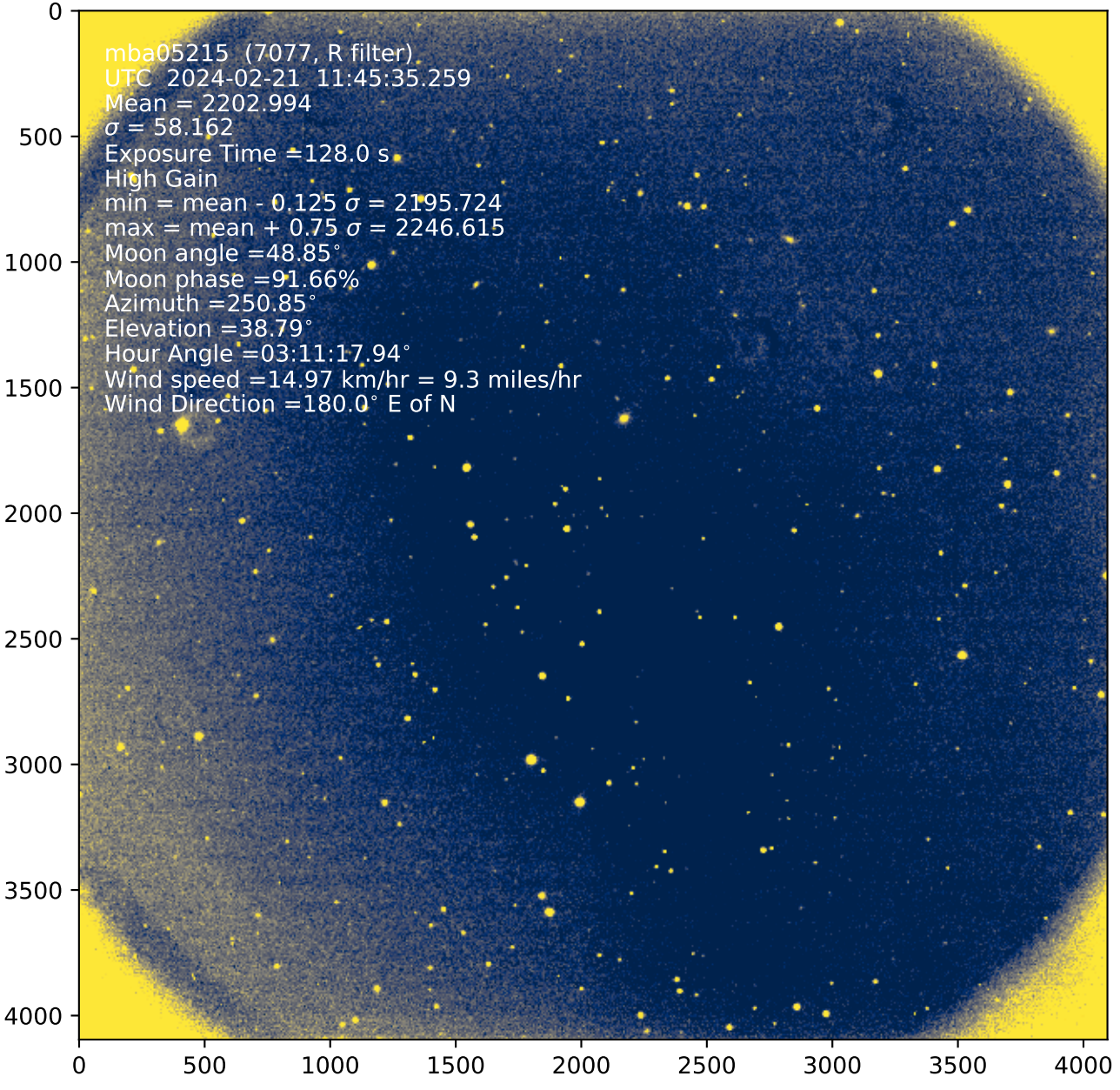
mba05215 (7077, R filter)
UTC 2024-02-21 11:45:35.259
Mean = 2202.994
σ = 58.162
Exposure Time =128.0 s
High Gain
min = mean - 0.125 σ = 2195.724
max = mean + 0.75 σ = 2246.615
Moon angle =48.85°
Moon phase =91.66%
Azimuth =250.85°
Elevation =38.79°
Hour Angle =03:11:17.94°
Wind speed =14.97 km/hr = 9.3 miles/hr
Wind Direction =180.0° E of N
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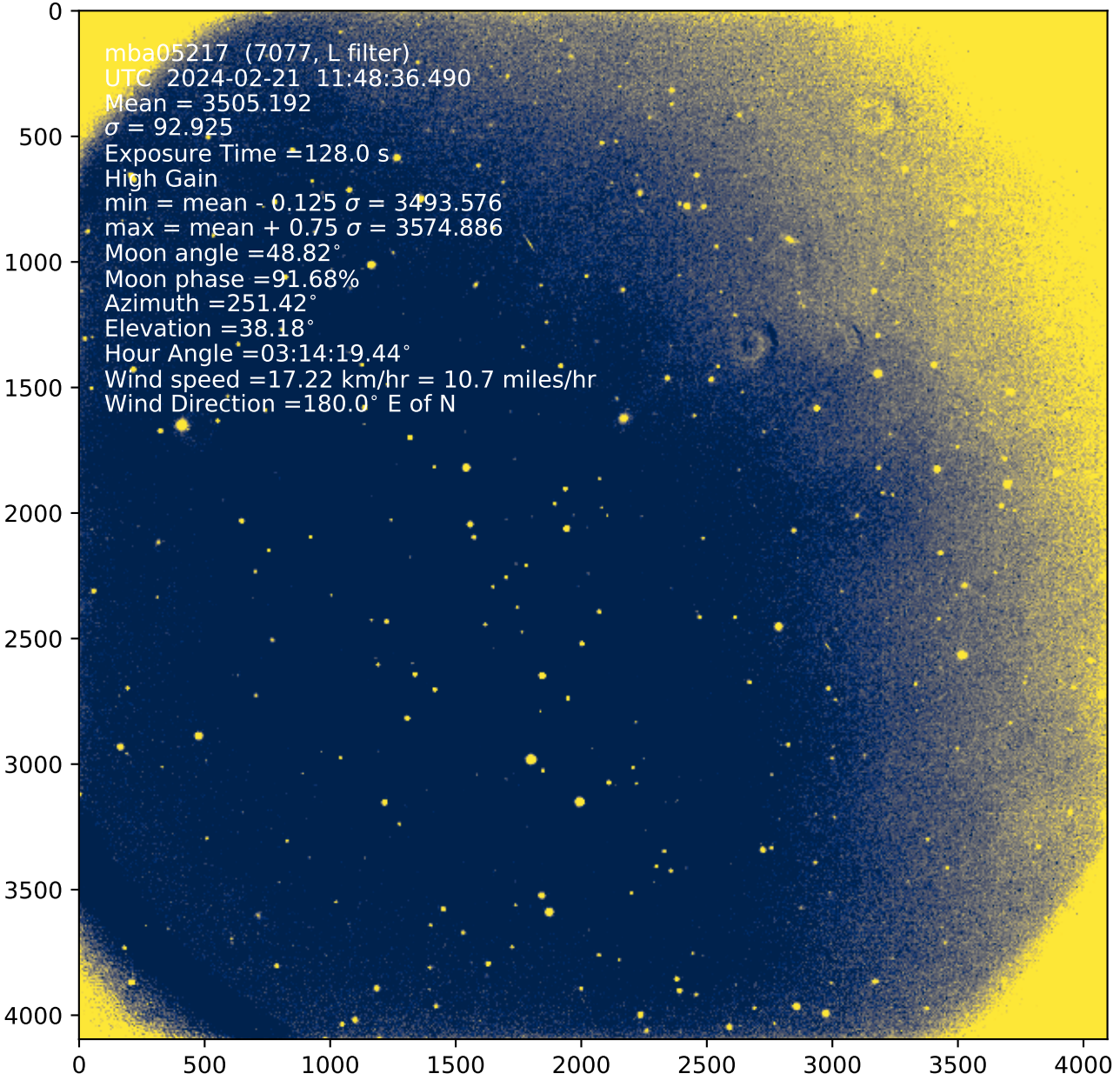
4000


mba05217 (7077, L filter)
UTC 2024-02-21 11:48:36.490
Mean = 3505.192
σ = 92.925
Exposure Time =128.0 s
High Gain
min = mean - 0.125 σ = 3493.576
max = mean + 0.75 σ = 3574.886
Moon angle =48.82°
Moon phase =91.68%
Azimuth =251.42°
Elevation =38.18°
Hour Angle =03:14:19.44°
Wind speed =17.22 km/hr = 10.7 miles/hr
Wind Direction =180.0° E of N
0
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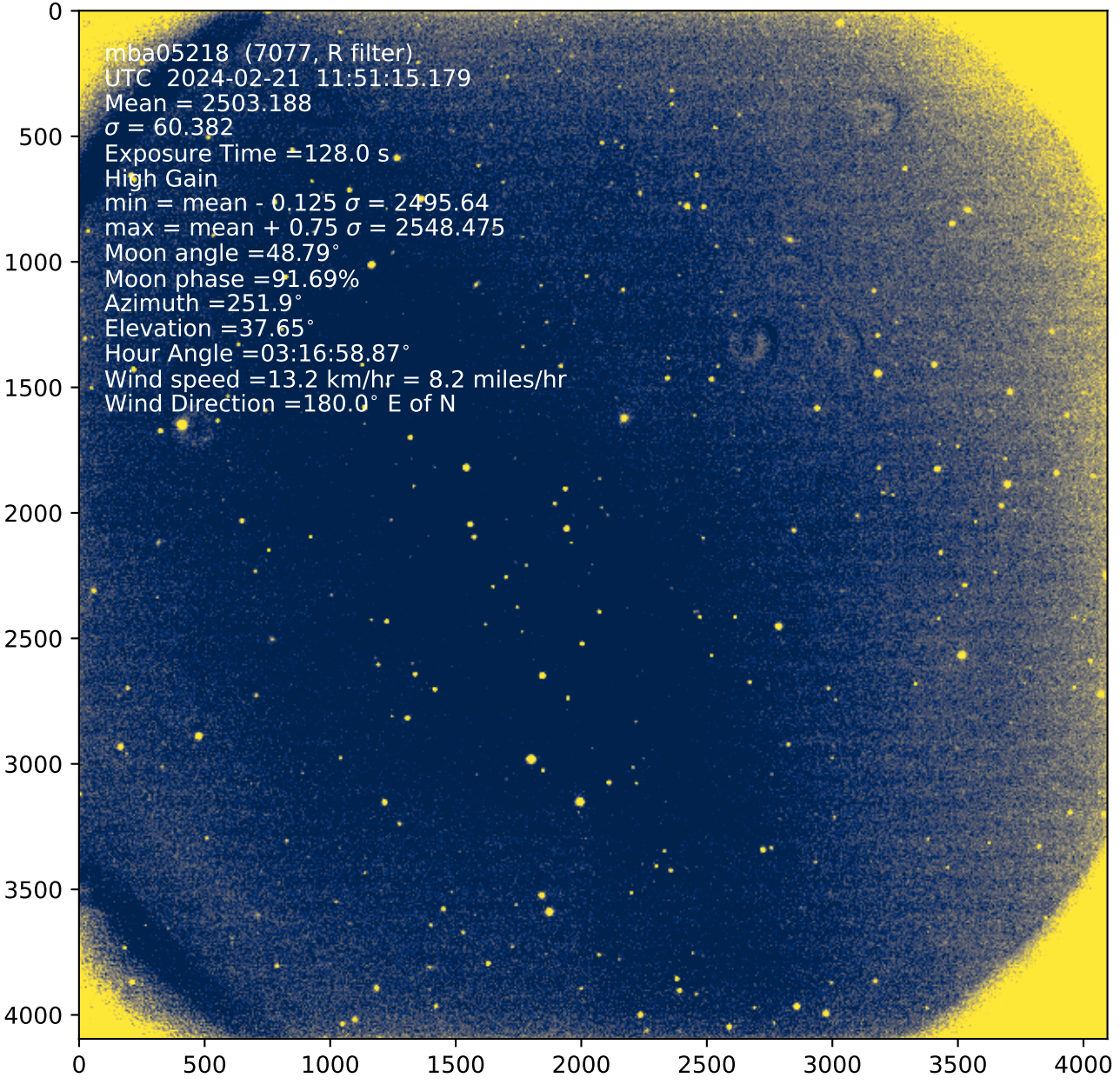
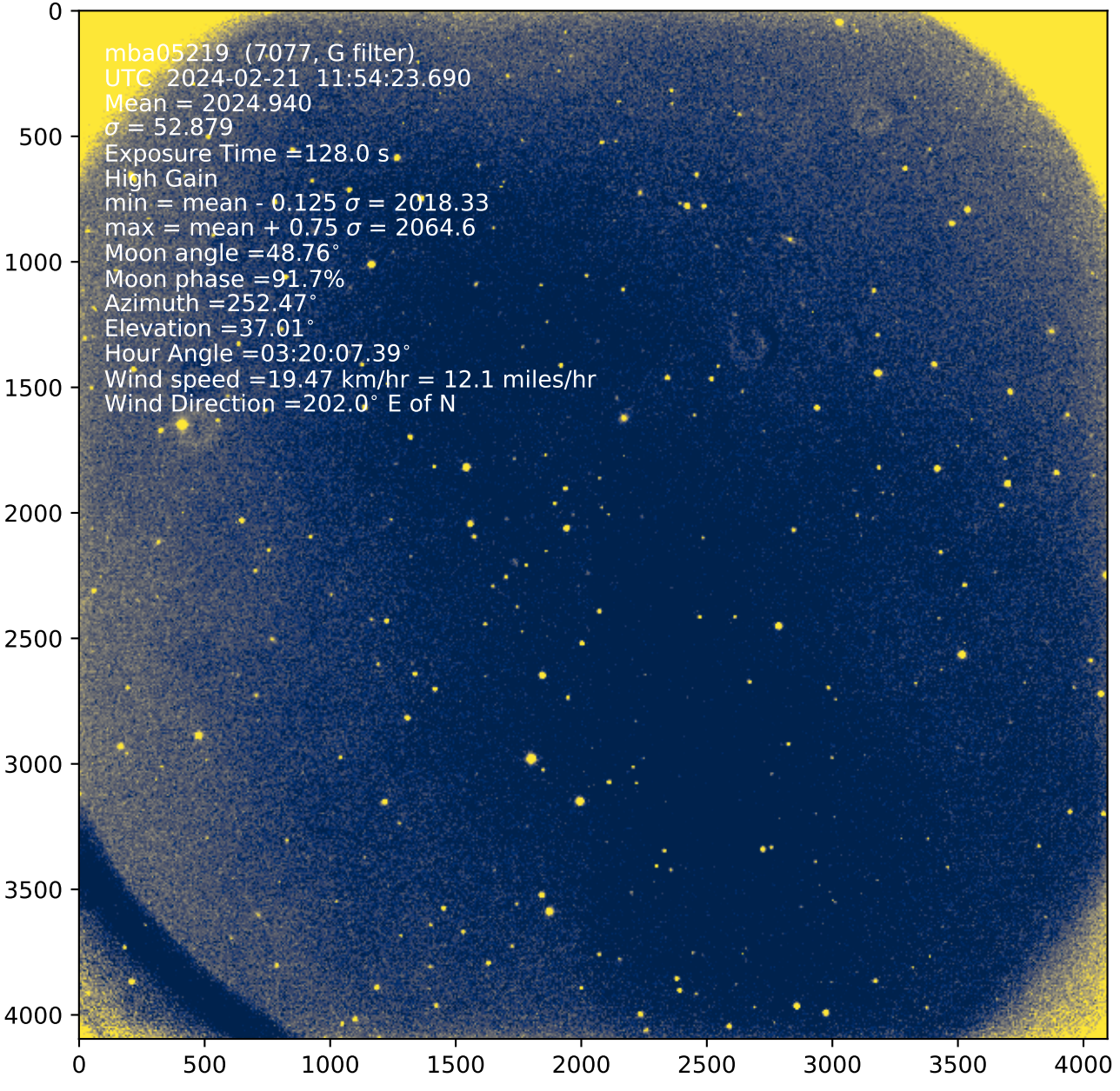
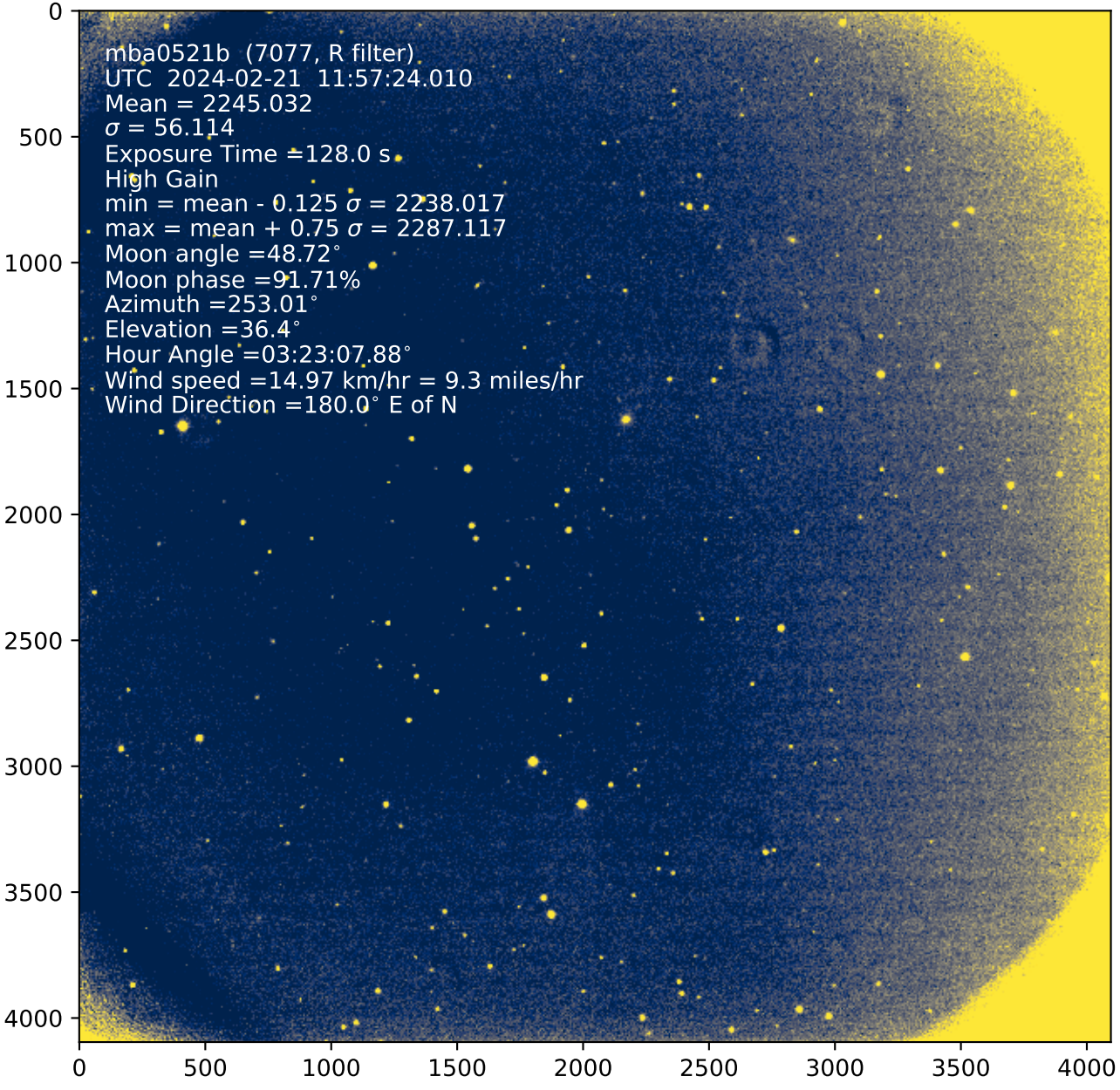
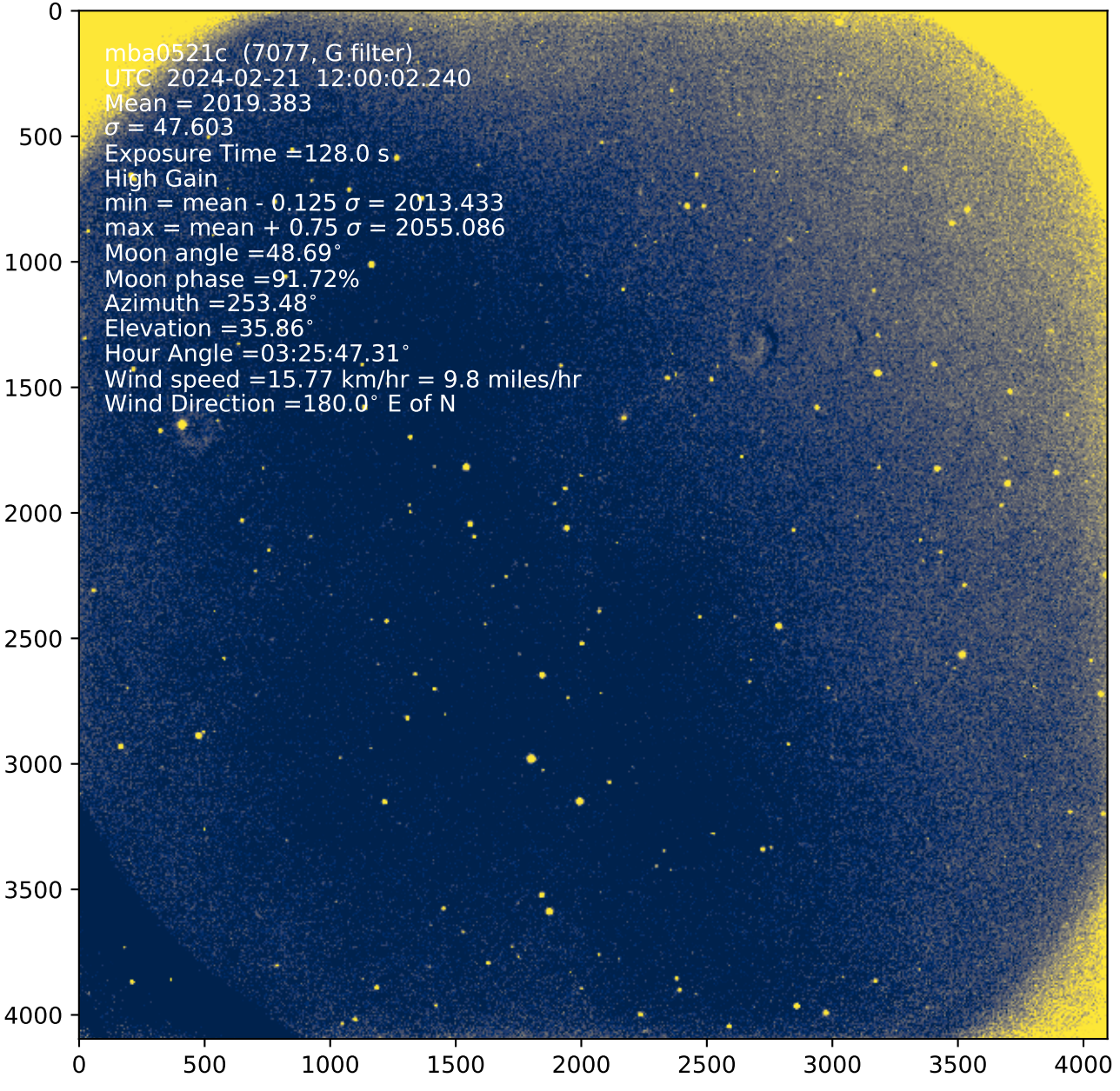
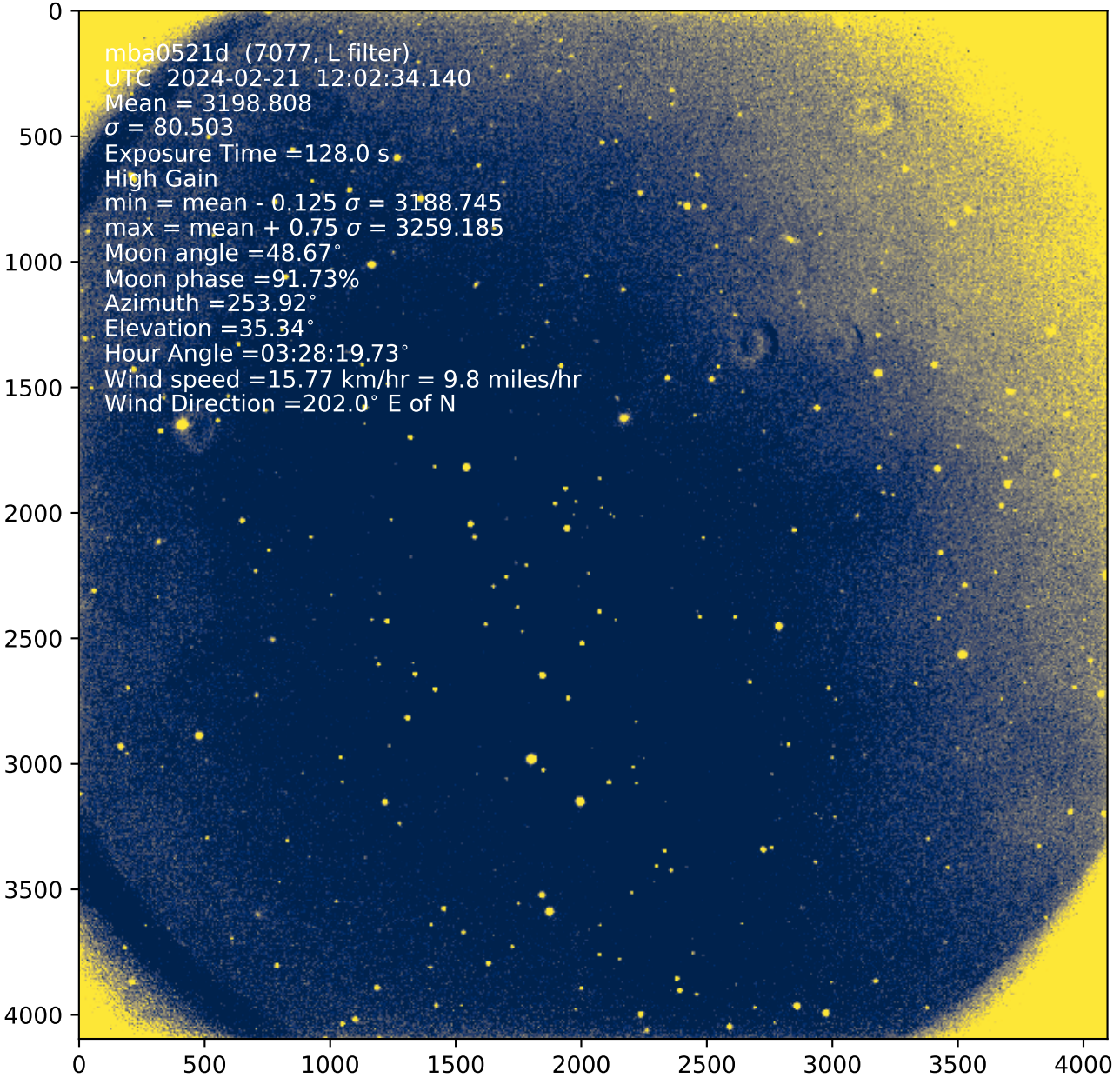
3500
4000


mba05218 (7077, R filter)
UTC 2024-02-21 11:51:15.179
Mean = 2503.188
σ = 60.382
Exposure Time =128.0 s
High Gain
min = mean - 0.125 σ = 2495.64
max = mean + 0.75 σ = 2548.475
Moon angle =48.79°
Moon phase =91.69%
Azimuth =251.9°
Elevation =37.65°
Hour Angle =03:16:58.87°
Wind speed =13.2 km/hr = 8.2 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mba05219 (7077, G filter)
UTC 2024-02-21 11:54:23.690
Mean = 2024.940
σ = 52.879
Exposure Time =128.0 s
High Gain
min = mean - 0.125 σ = 2018.33
max = mean + 0.75 σ = 2064.6
Moon angle =48.76°
Moon phase =91.7%
Azimuth =252.47°
Elevation =37.01°
Hour Angle =03:20:07.39°
Wind speed =19.47 km/hr = 12.1 miles/hr
Wind Direction =202.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mba0521b (7077, R filter)
UTC 2024-02-21 11:57:24.010
Mean = 2245.032
σ = 56.114
Exposure Time =128.0 s
High Gain
min = mean - 0.125 σ = 2238.017
max = mean + 0.75 σ = 2287.117
Moon angle =48.72°
Moon phase =91.71%
Azimuth =253.01°
Elevation =36.4°
Hour Angle =03:23:07.88°
Wind speed =14.97 km/hr = 9.3 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mba0521c (7077, G filter)
UTC 2024-02-21 12:00:02.240
Mean = 2019.383
σ = 47.603
Exposure Time =128.0 s
High Gain
min = mean - 0.125 σ = 2013.433
max = mean + 0.75 σ = 2055.086
Moon angle =48.69°
Moon phase =91.72%
Azimuth =253.48°
Elevation =35.86°
Hour Angle =03:25:47.31°
Wind speed =15.77 km/hr = 9.8 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mba0521d (7077, L filter)
UTC 2024-02-21 12:02:34.140
Mean = 3198.808
σ = 80.503
Exposure Time =128.0 s
High Gain
min = mean - 0.125 σ = 3188.745
max = mean + 0.75 σ = 3259.185
Moon angle =48.67°
Moon phase =91.73%
Azimuth =253.92°
Elevation =35.34°
Hour Angle =03:28:19.73°
Wind speed =15.77 km/hr = 9.8 miles/hr
Wind Direction =202.0° E of N
0
500
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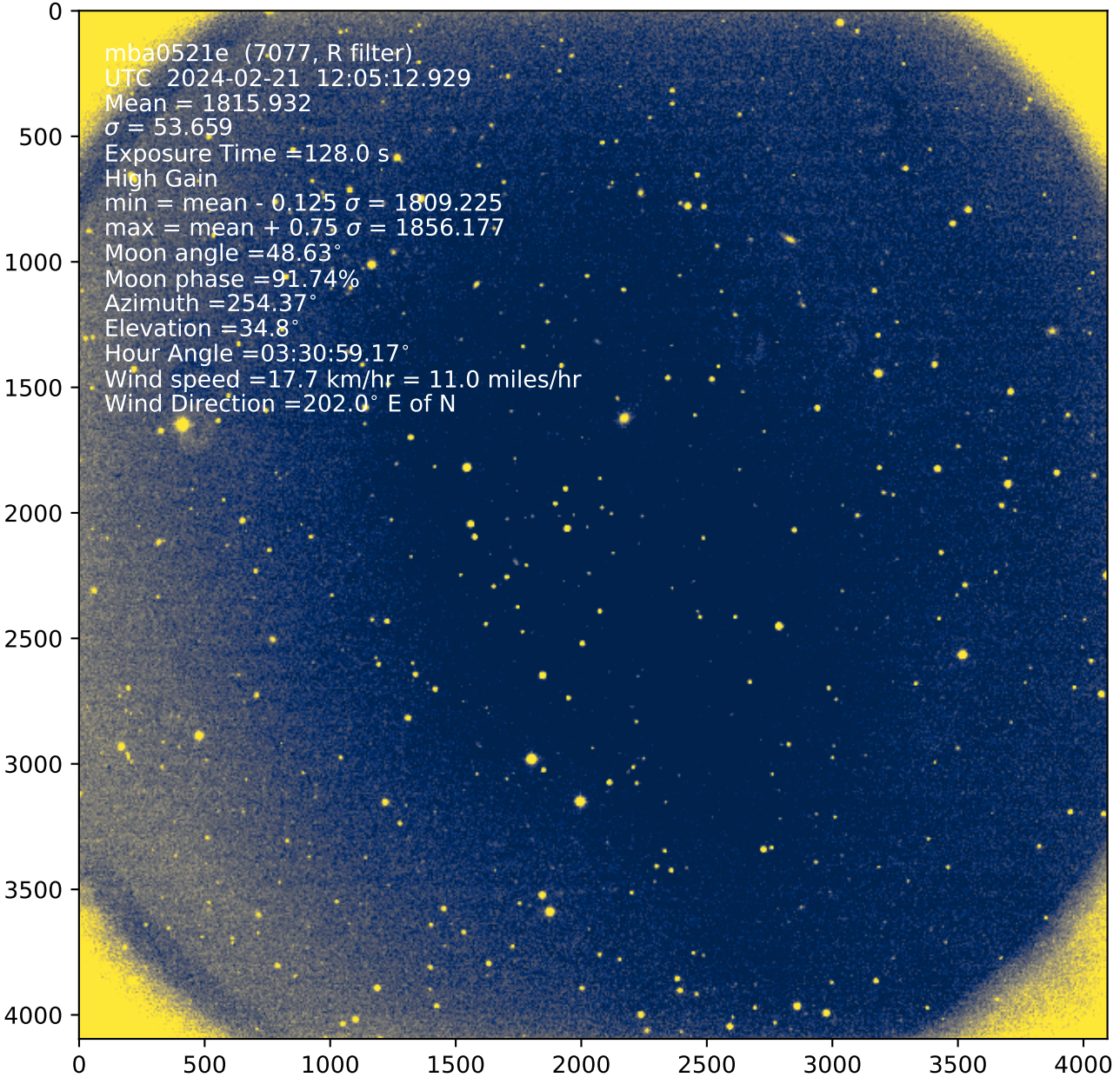
2500
3000
3500
4000


mba0521e (7077, R filter)
UTC 2024-02-21 12:05:12.929
Mean = 1815.932
σ = 53.659
Exposure Time =128.0 s
High Gain
min = mean - 0.125 σ = 1809.225
max = mean + 0.75 σ = 1856.177
Moon angle =48.63°
Moon phase =91.74%
Azimuth =254.37°
Elevation =34.8°
Hour Angle =03:30:59.17°
Wind speed =17.7 km/hr = 11.0 miles/hr
Wind Direction =202.0° E of N
0
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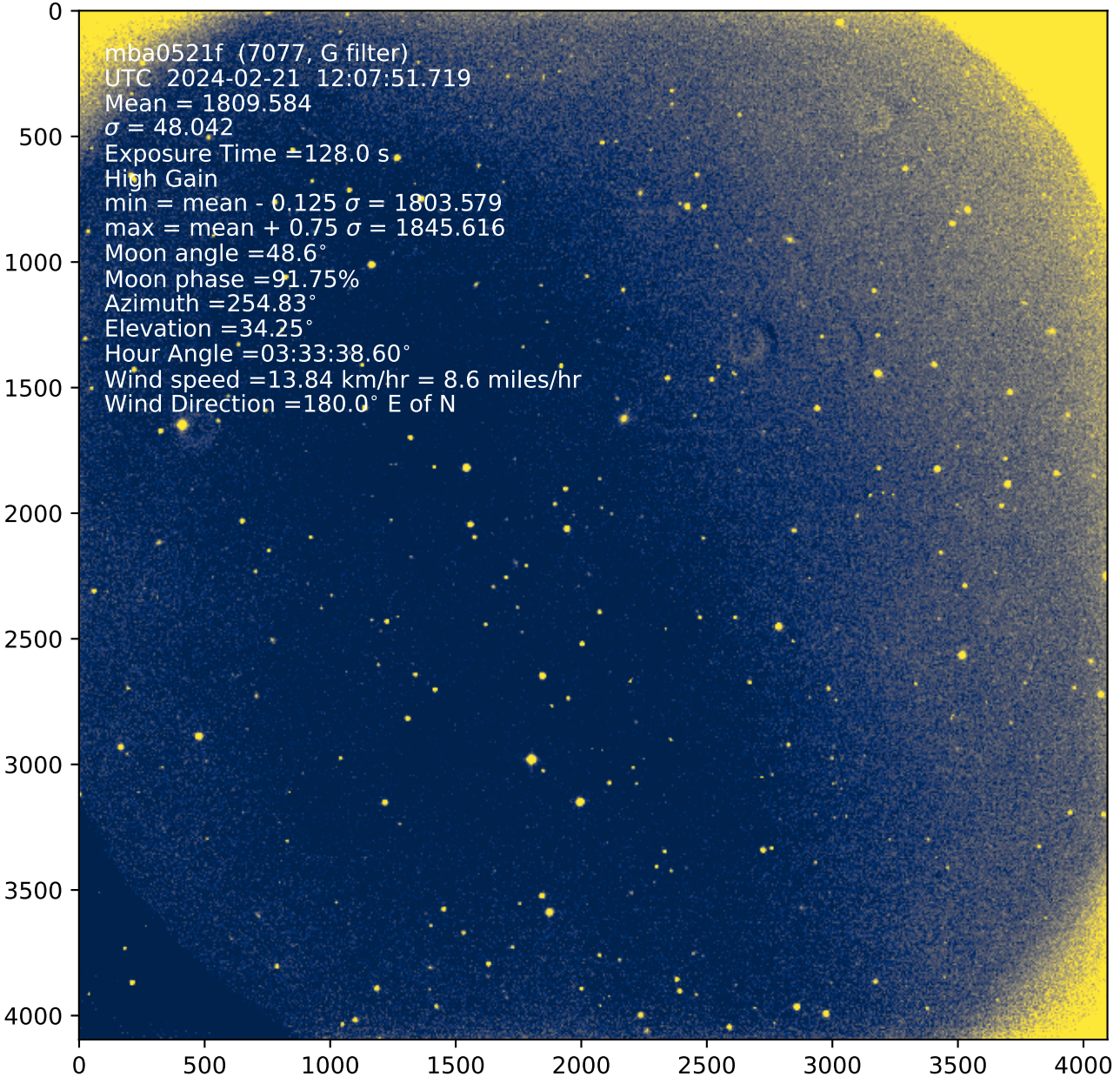
3000
3500
4000


mba0521f (7077, G filter)
UTC 2024-02-21 12:07:51.719
Mean = 1809.584
σ = 48.042
Exposure Time =128.0 s
High Gain
min = mean - 0.125 σ = 1803.579
max = mean + 0.75 σ = 1845.616
Moon angle =48.6°
Moon phase =91.75%
Azimuth =254.83°
Elevation =34.25°
Hour Angle =03:33:38.60°
Wind speed =13.84 km/hr = 8.6 miles/hr
Wind Direction =180.0° E of N
0
500
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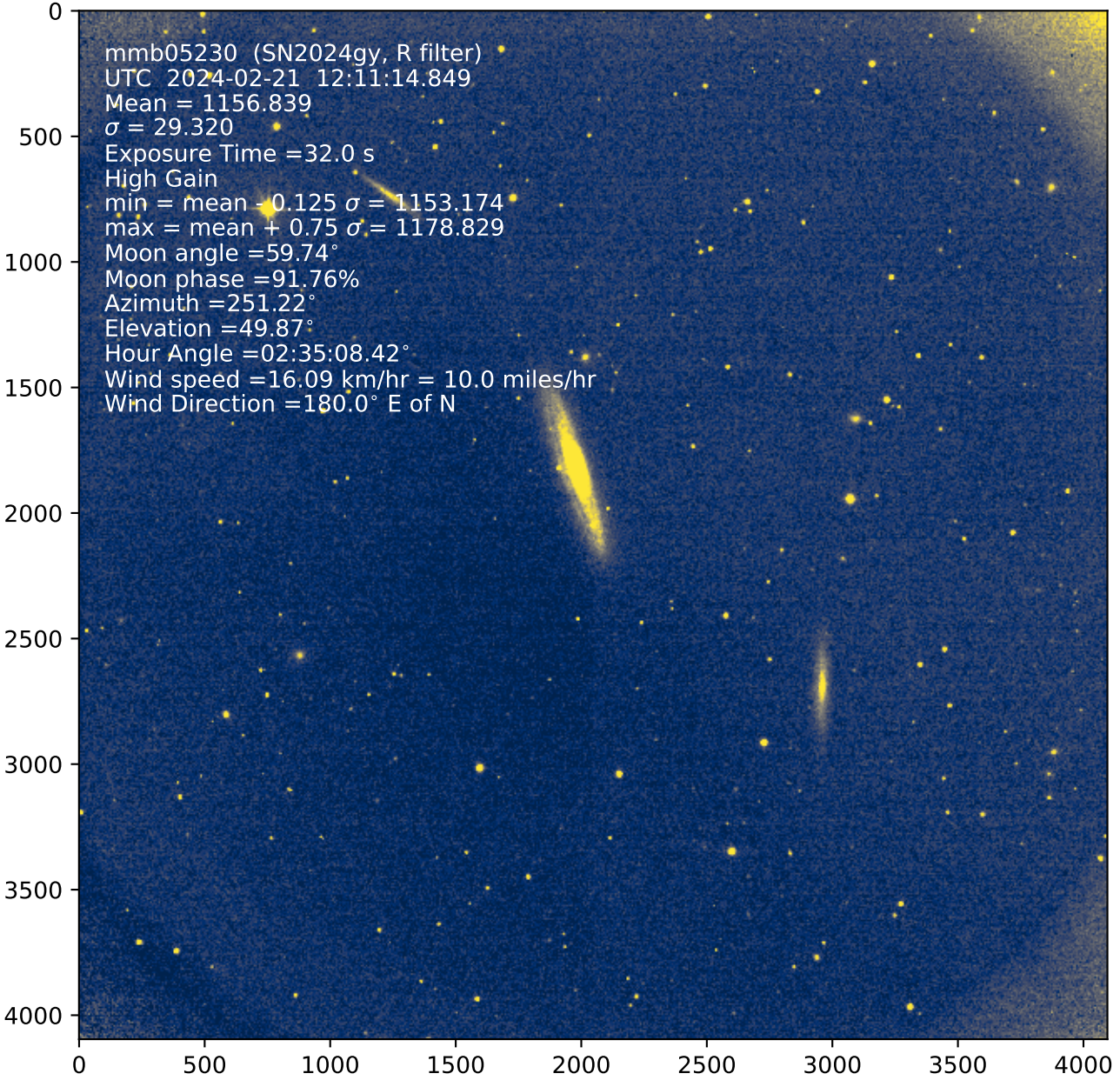
2500
3000
3500
4000


mmb05230 (SN2024gy, R filter)
UTC 2024-02-21 12:11:14.849
Mean = 1156.839
σ = 29.320
Exposure Time =32.0 s
High Gain
min = mean - 0.125 σ = 1153.174
max = mean + 0.75 σ = 1178.829
Moon angle =59.74°
Moon phase =91.76%
Azimuth =251.22°
Elevation =49.87°
Hour Angle =02:35:08.42°
Wind speed =16.09 km/hr = 10.0 miles/hr
Wind Direction =180.0° E of N
0
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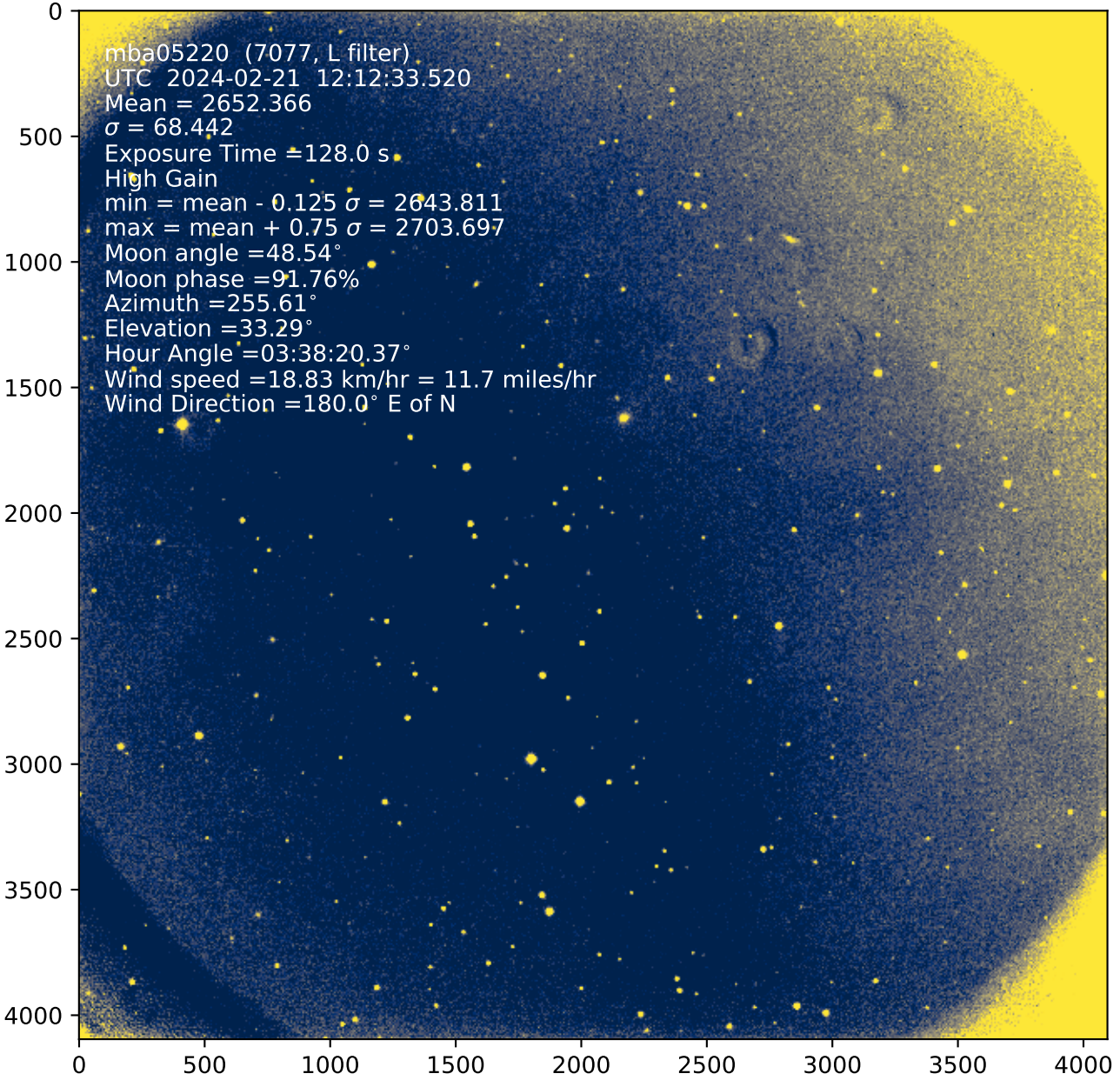
2000
2500
3000
3500
4000


mba05220 (7077, L filter)
UTC 2024-02-21 12:12:33.520
Mean = 2652.366
σ = 68.442
Exposure Time =128.0 s
High Gain
min = mean - 0.125 σ = 2643.811
max = mean + 0.75 σ = 2703.697
Moon angle =48.54°
Moon phase =91.76%
Azimuth =255.61°
Elevation =33.29°
Hour Angle =03:38:20.37°
Wind speed =18.83 km/hr = 11.7 miles/hr
Wind Direction =180.0° E of N
0
500
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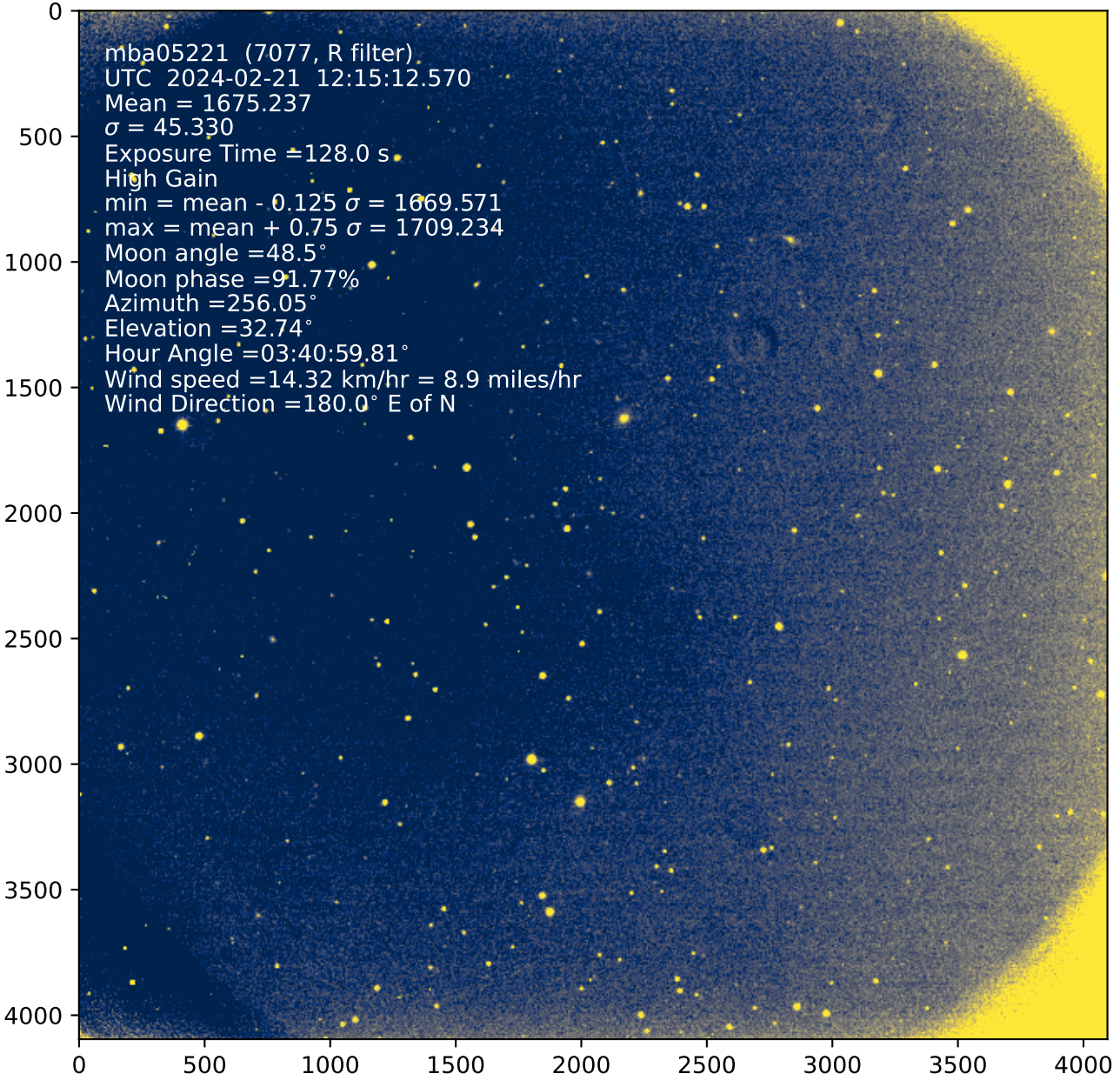
2000
2500
3000
3500
4000


mba05221 (7077, R filter)
UTC 2024-02-21 12:15:12.570
Mean = 1675.237
σ = 45.330
Exposure Time =128.0 s
High Gain
min = mean - 0.125 σ = 1669.571
max = mean + 0.75 σ = 1709.234
Moon angle =48.5°
Moon phase =91.77%
Azimuth =256.05°
Elevation =32.74°
Hour Angle =03:40:59.81°
Wind speed =14.32 km/hr = 8.9 miles/hr
Wind Direction =180.0° E of N
0
500
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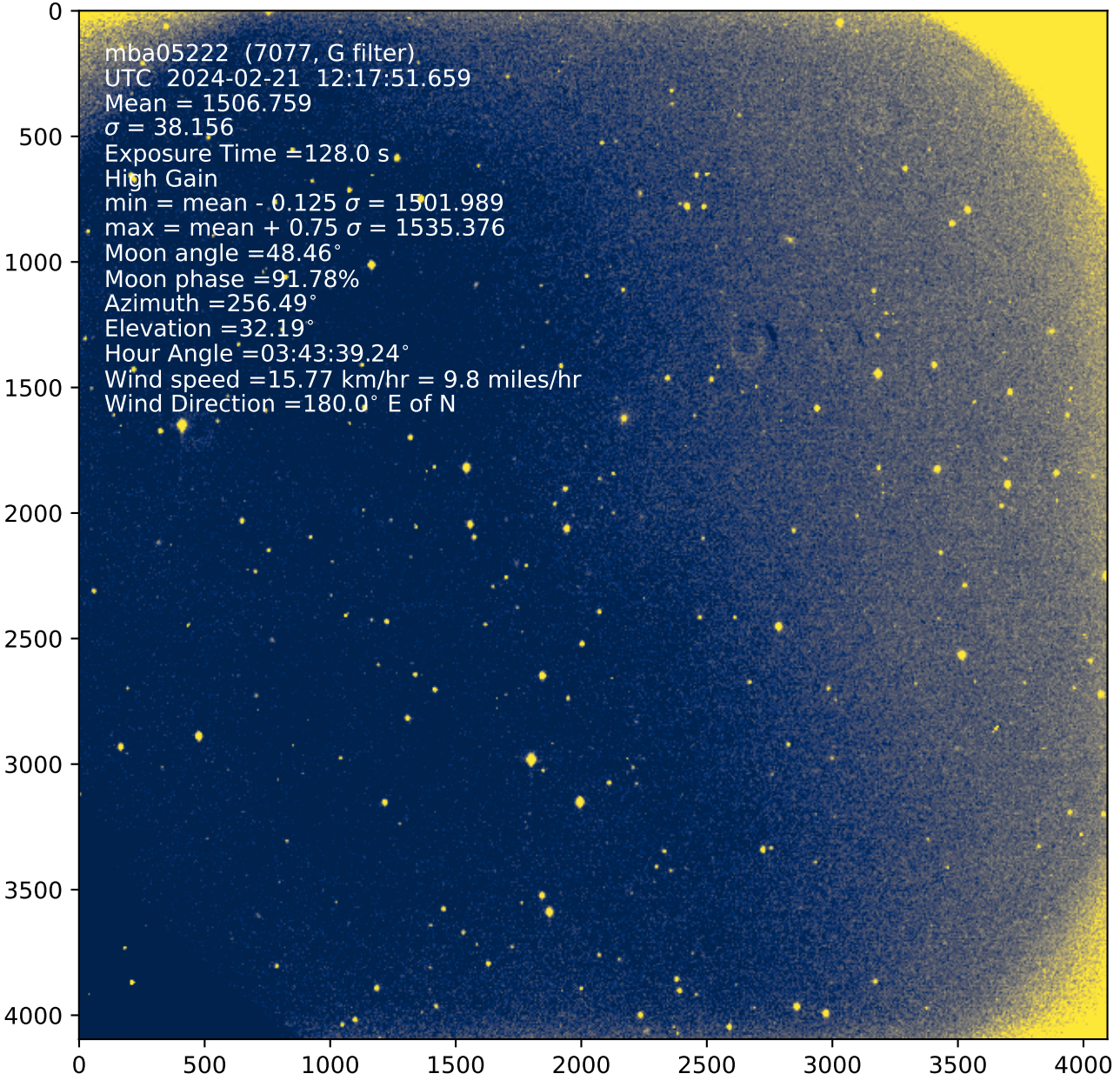
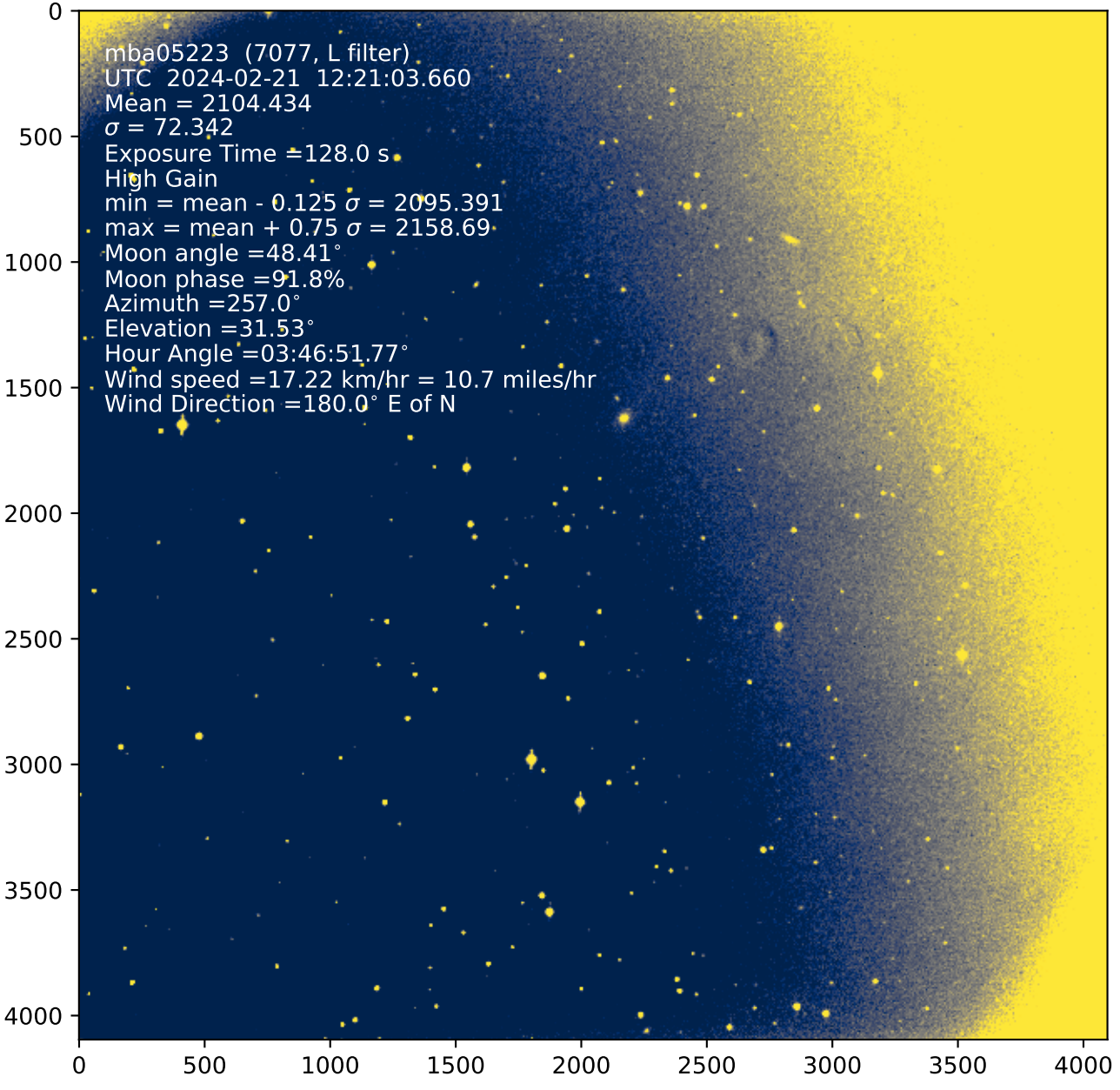
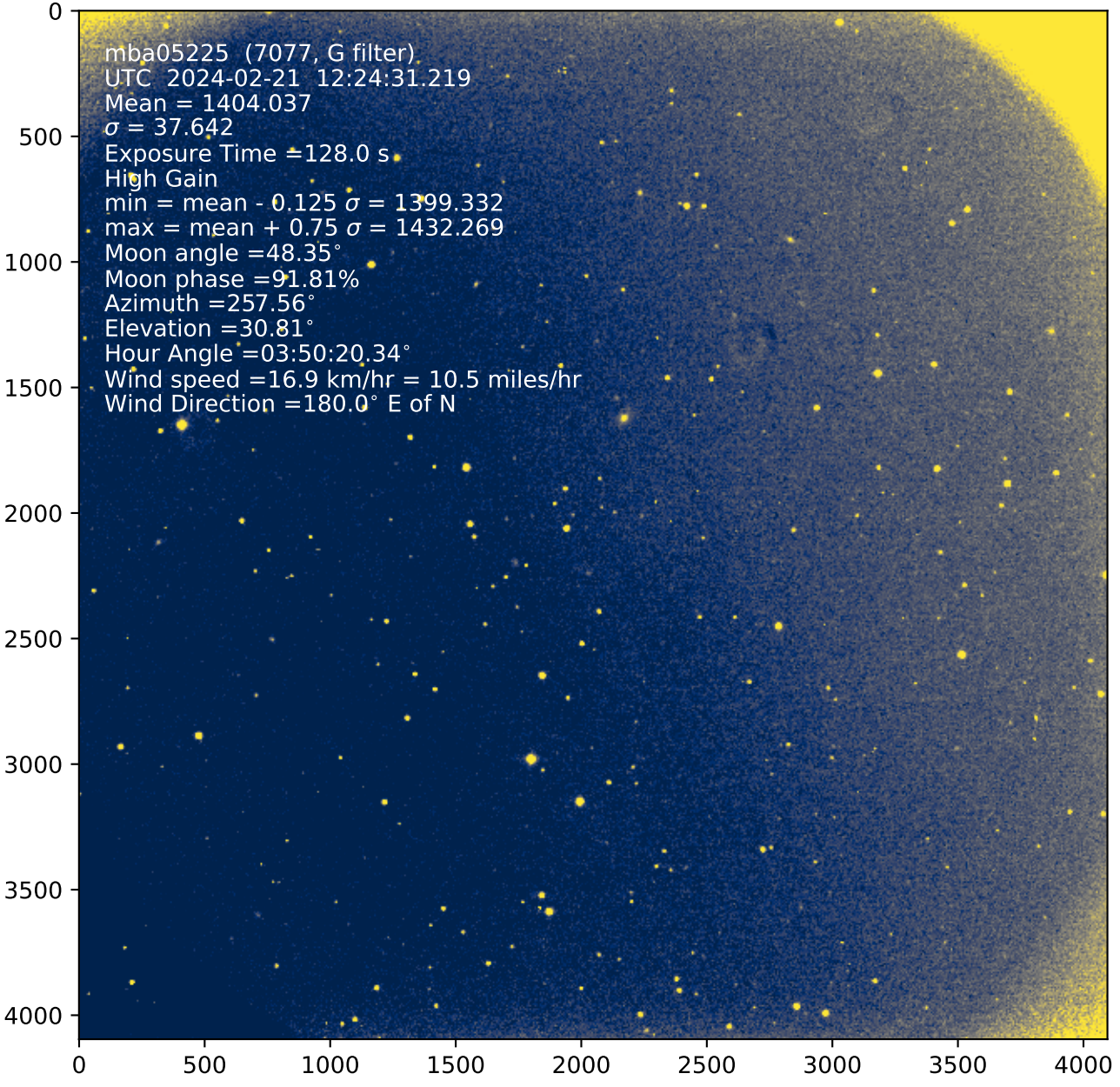
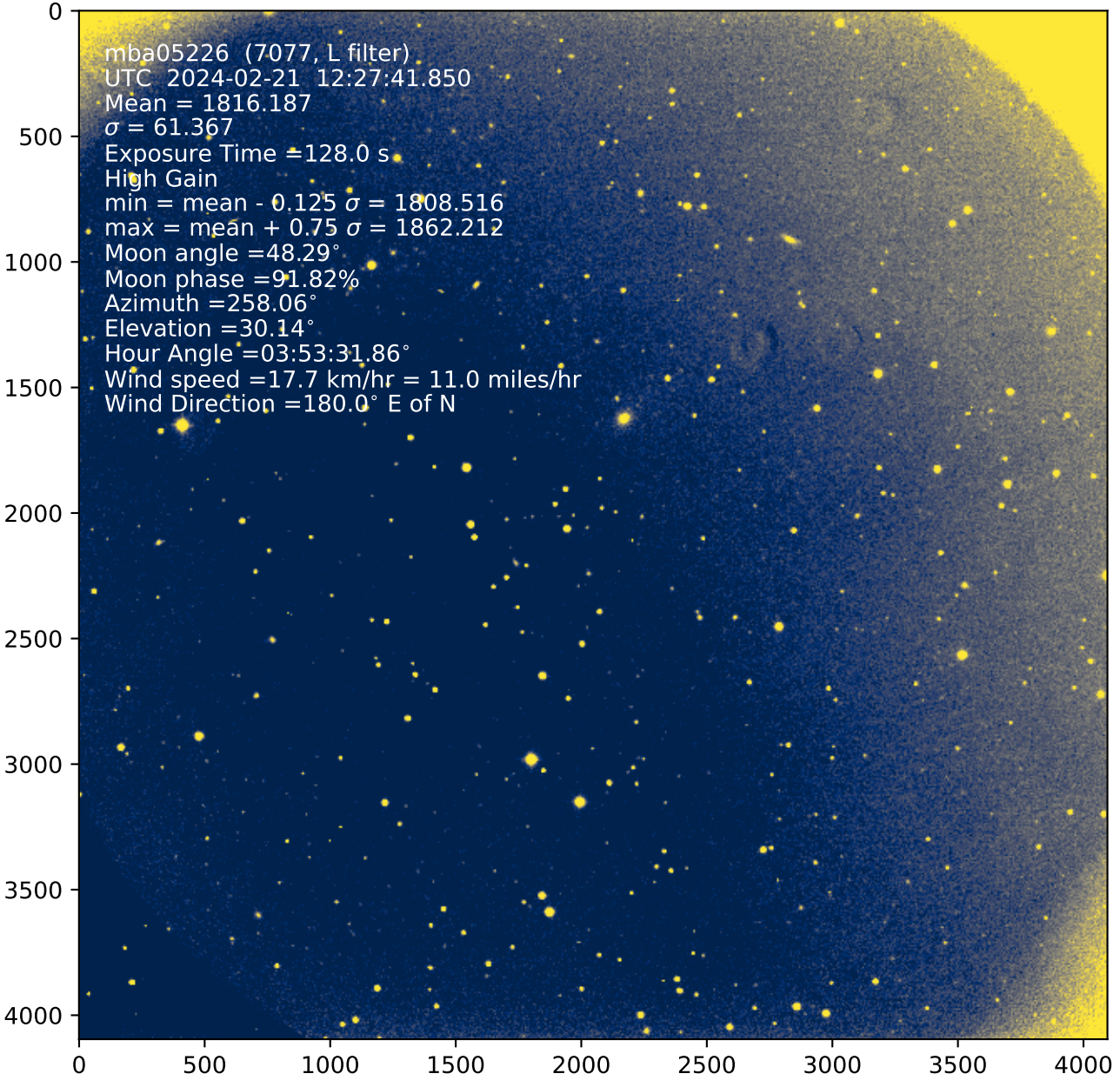
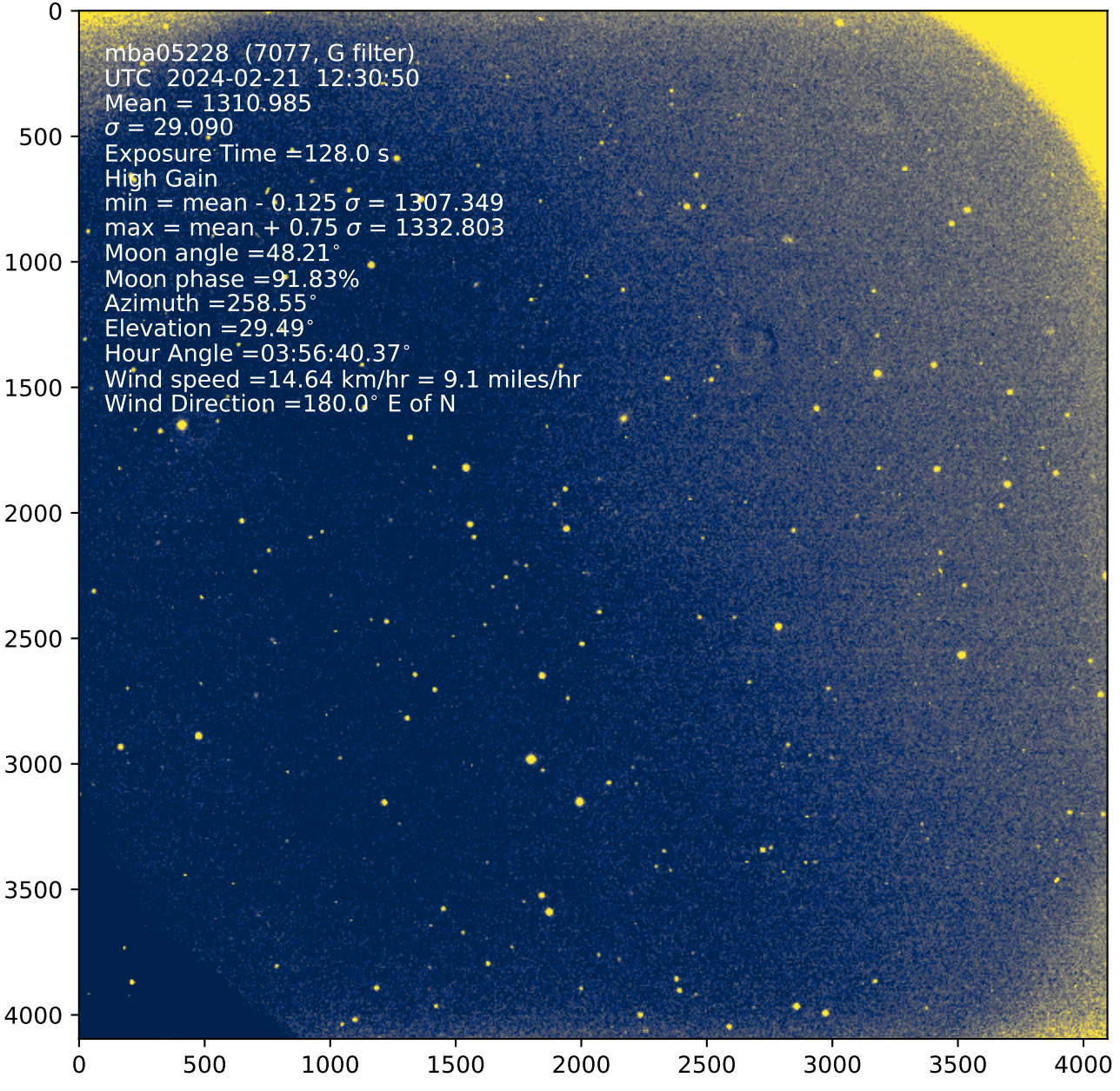
2000
2500
3000
3500
4000


mba05222 (7077, G filter)
UTC 2024-02-21 12:17:51.659
Mean = 1506.759
σ = 38.156
Exposure Time =128.0 s
High Gain
min = mean - 0.125 σ = 1501.989
max = mean + 0.75 σ = 1535.376
Moon angle =48.46°
Moon phase =91.78%
Azimuth =256.49°
Elevation =32.19°
Hour Angle =03:43:39.24°
Wind speed =15.77 km/hr = 9.8 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mba05223 (7077, L filter)
UTC 2024-02-21 12:21:03.660
Mean = 2104.434
σ = 72.342
Exposure Time =128.0 s
High Gain
min = mean - 0.125 σ = 2095.391
max = mean + 0.75 σ = 2158.69
Moon angle =48.41°
Moon phase =91.8%
Azimuth =257.0°
Elevation =31.53°
Hour Angle =03:46:51.77°
Wind speed =17.22 km/hr = 10.7 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mba05225 (7077, G filter)
UTC 2024-02-21 12:24:31.219
Mean = 1404.037
σ = 37.642
Exposure Time =128.0 s
High Gain
min = mean - 0.125 σ = 1399.332
max = mean + 0.75 σ = 1432.269
Moon angle =48.35°
Moon phase =91.81%
Azimuth =257.56°
Elevation =30.81°
Hour Angle =03:50:20.34°
Wind speed =16.9 km/hr = 10.5 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mba05226 (7077, L filter)
UTC 2024-02-21 12:27:41.850
Mean = 1816.187
σ = 61.367
Exposure Time =128.0 s
High Gain
min = mean - 0.125 σ = 1808.516
max = mean + 0.75 σ = 1862.212
Moon angle =48.29°
Moon phase =91.82%
Azimuth =258.06°
Elevation =30.14°
Hour Angle =03:53:31.86°
Wind speed =17.7 km/hr = 11.0 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mba05228 (7077, G filter)
UTC 2024-02-21 12:30:50
Mean = 1310.985
σ = 29.090
Exposure Time =128.0 s
High Gain
min = mean - 0.125 σ = 1307.349
max = mean + 0.75 σ = 1332.803
Moon angle =48.21°
Moon phase =91.83%
Azimuth =258.55°
Elevation =29.49°
Hour Angle =03:56:40.37°
Wind speed =14.64 km/hr = 9.1 miles/hr
Wind Direction =180.0° E of N
0
500
1000
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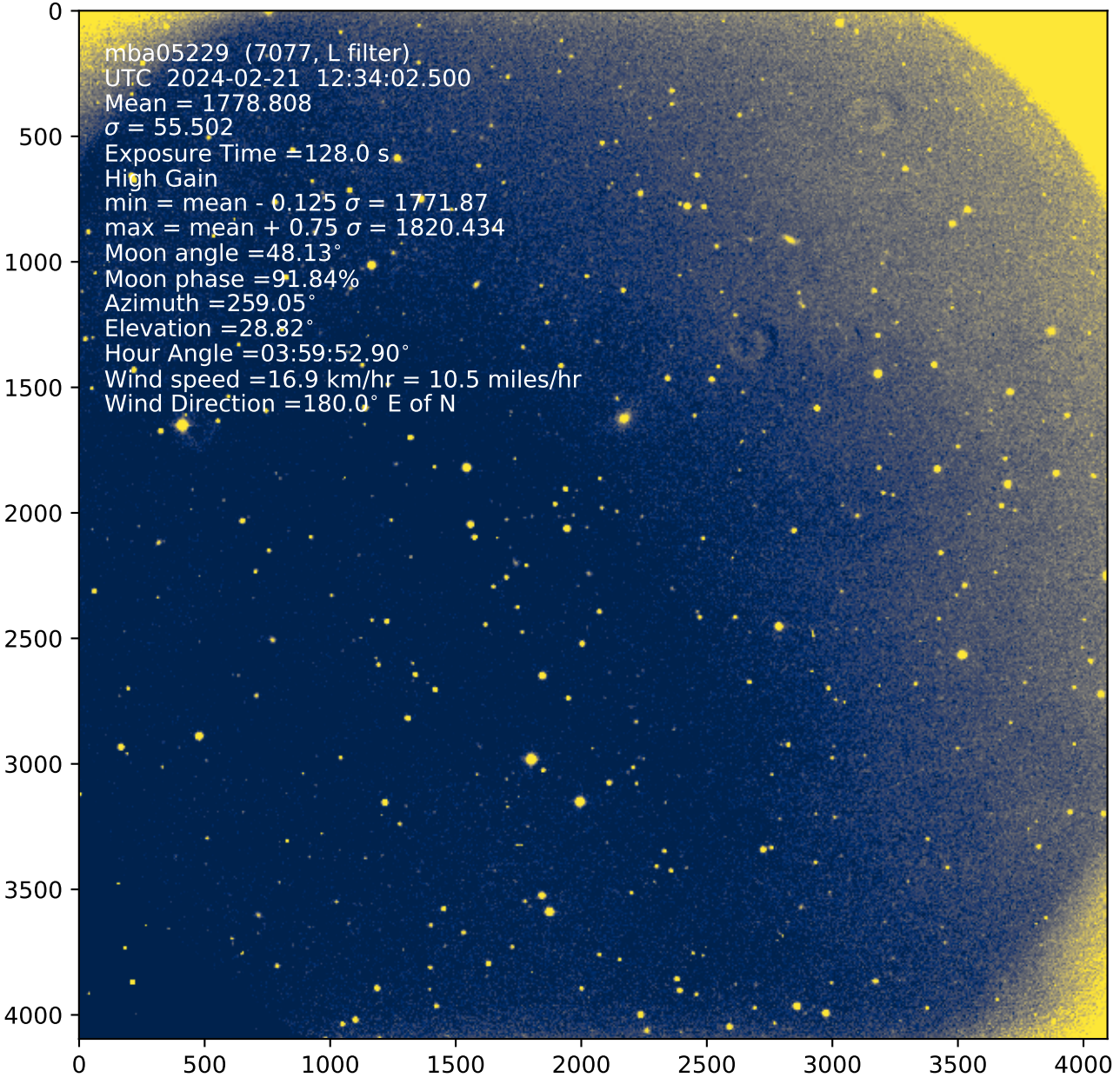
2000
2500
3000
3500
4000


mba05229 (7077, L filter)
UTC 2024-02-21 12:34:02.500
Mean = 1778.808
σ = 55.502
Exposure Time =128.0 s
High Gain
min = mean - 0.125 σ = 1771.87
max = mean + 0.75 σ = 1820.434
Moon angle =48.13°
Moon phase =91.84%
Azimuth =259.05°
Elevation =28.82°
Hour Angle =03:59:52.90°
Wind speed =16.9 km/hr = 10.5 miles/hr
Wind Direction =180.0° E of N
0
500
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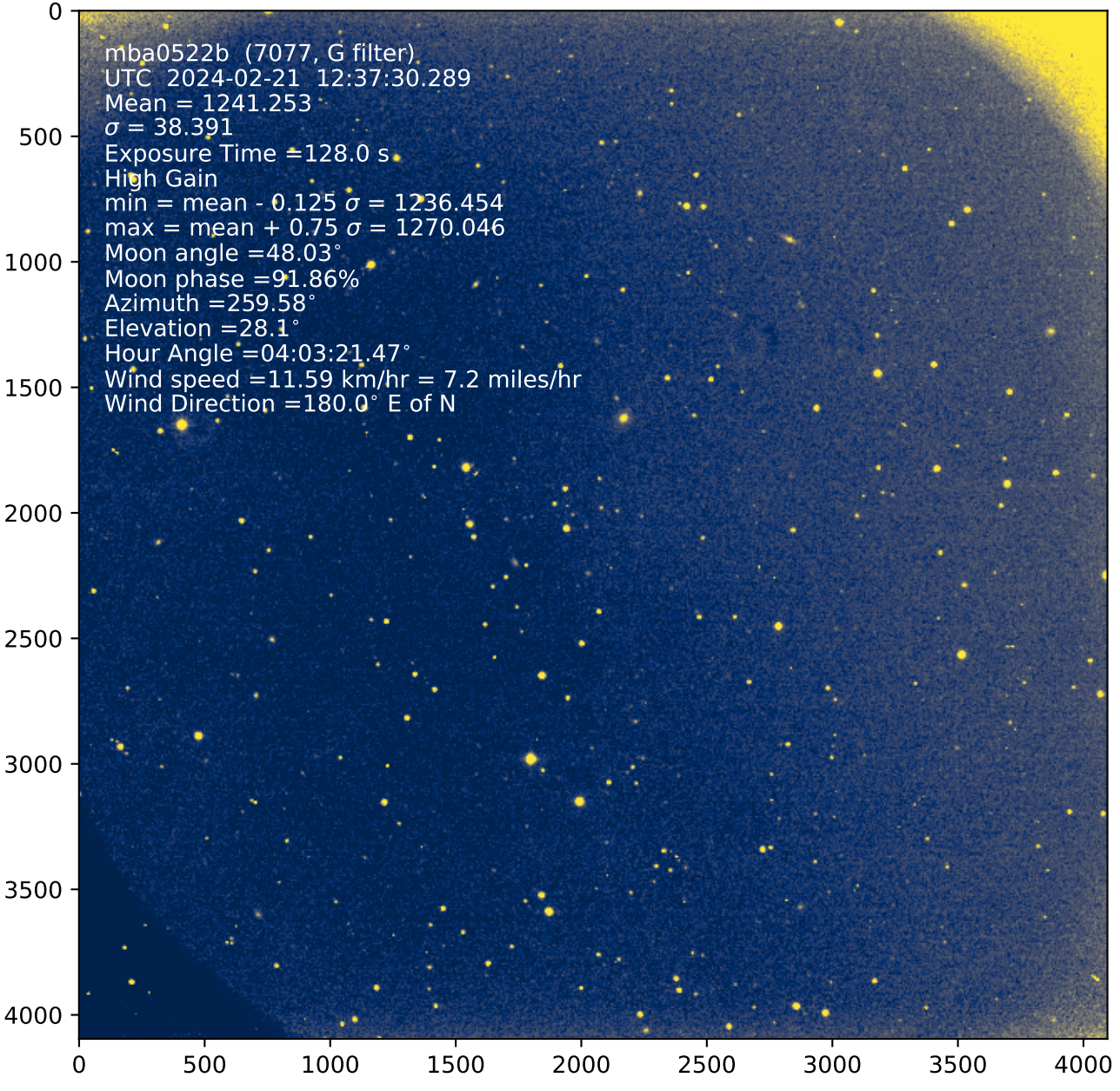
3000
3500
4000


mba0522b (7077, G filter)
UTC 2024-02-21 12:37:30.289
Mean = 1241.253
σ = 38.391
Exposure Time =128.0 s
High Gain
min = mean - 0.125 σ = 1236.454
max = mean + 0.75 σ = 1270.046
Moon angle =48.03°
Moon phase =91.86%
Azimuth =259.58°
Elevation =28.1°
Hour Angle =04:03:21.47°
Wind speed =11.59 km/hr = 7.2 miles/hr
Wind Direction =180.0° E of N
0
500
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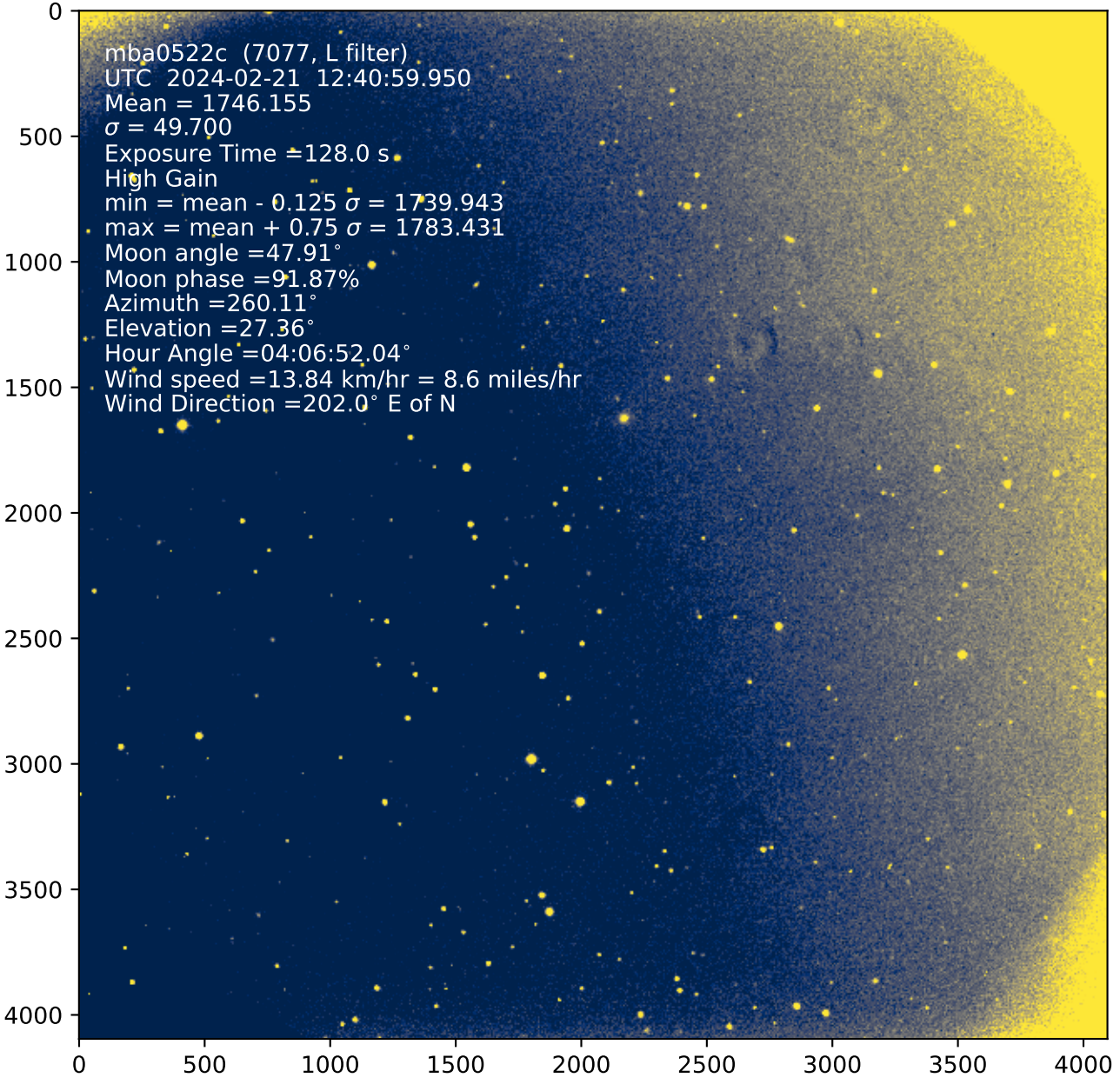
2000
2500
3000
3500
4000


mba0522c (7077, L filter)
UTC 2024-02-21 12:40:59.950
Mean = 1746.155
σ = 49.700
Exposure Time =128.0 s
High Gain
min = mean - 0.125 σ = 1739.943
max = mean + 0.75 σ = 1783.431
Moon angle =47.91°
Moon phase =91.87%
Azimuth =260.11°
Elevation =27.36°
Hour Angle =04:06:52.04°
Wind speed =13.84 km/hr = 8.6 miles/hr
Wind Direction =202.0° E of N
0
500
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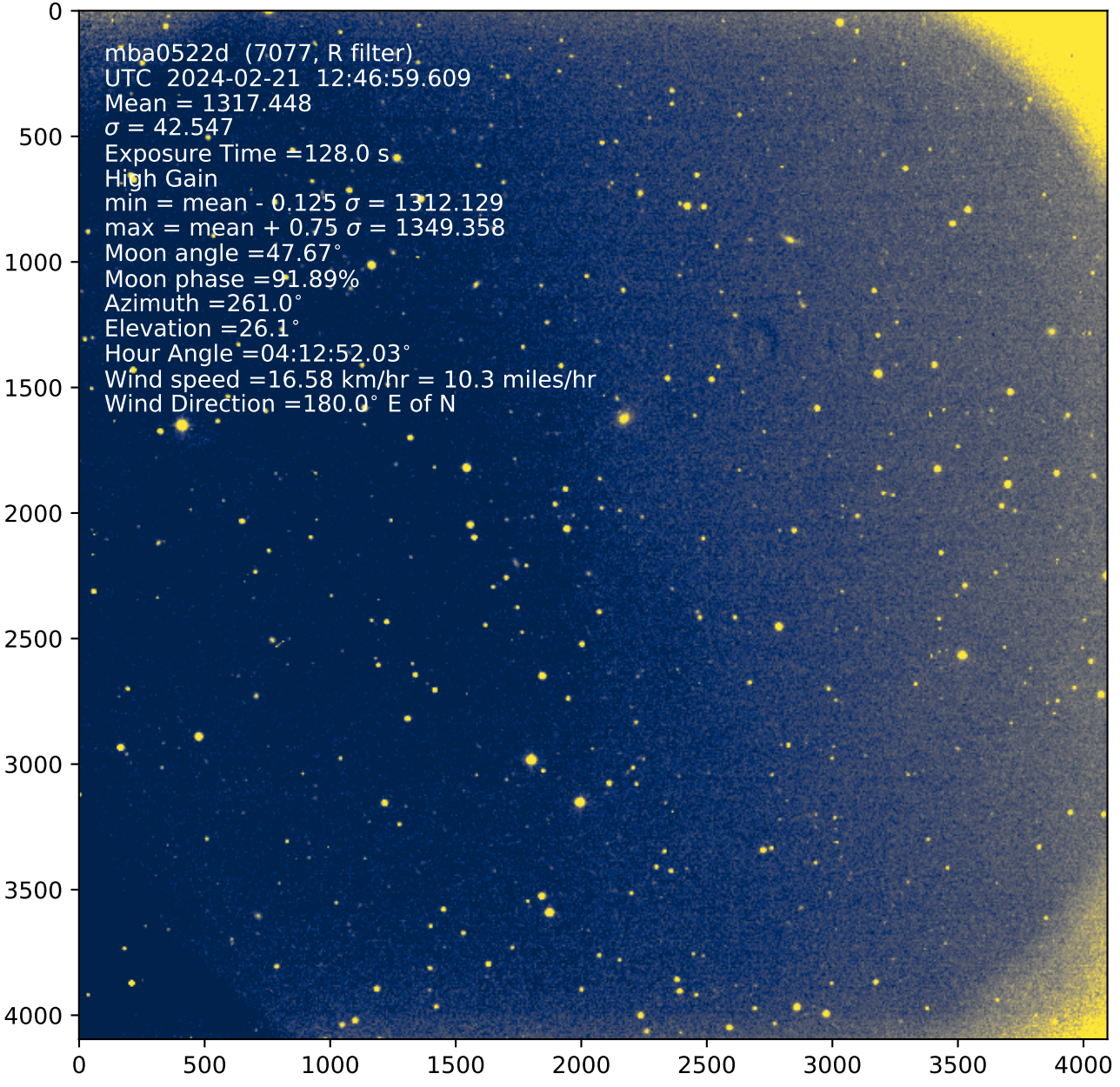
2000
2500
3000
3500
4000


mba0522d (7077, R filter)
UTC 2024-02-21 12:46:59.609
Mean = 1317.448
σ = 42.547
Exposure Time =128.0 s
High Gain
min = mean - 0.125 σ = 1312.129
max = mean + 0.75 σ = 1349.358
Moon angle =47.67°
Moon phase =91.89%
Azimuth =261.0°
Elevation =26.1°
Hour Angle =04:12:52.03°
Wind speed =16.58 km/hr = 10.3 miles/hr
Wind Direction =180.0° E of N
0
500
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2500
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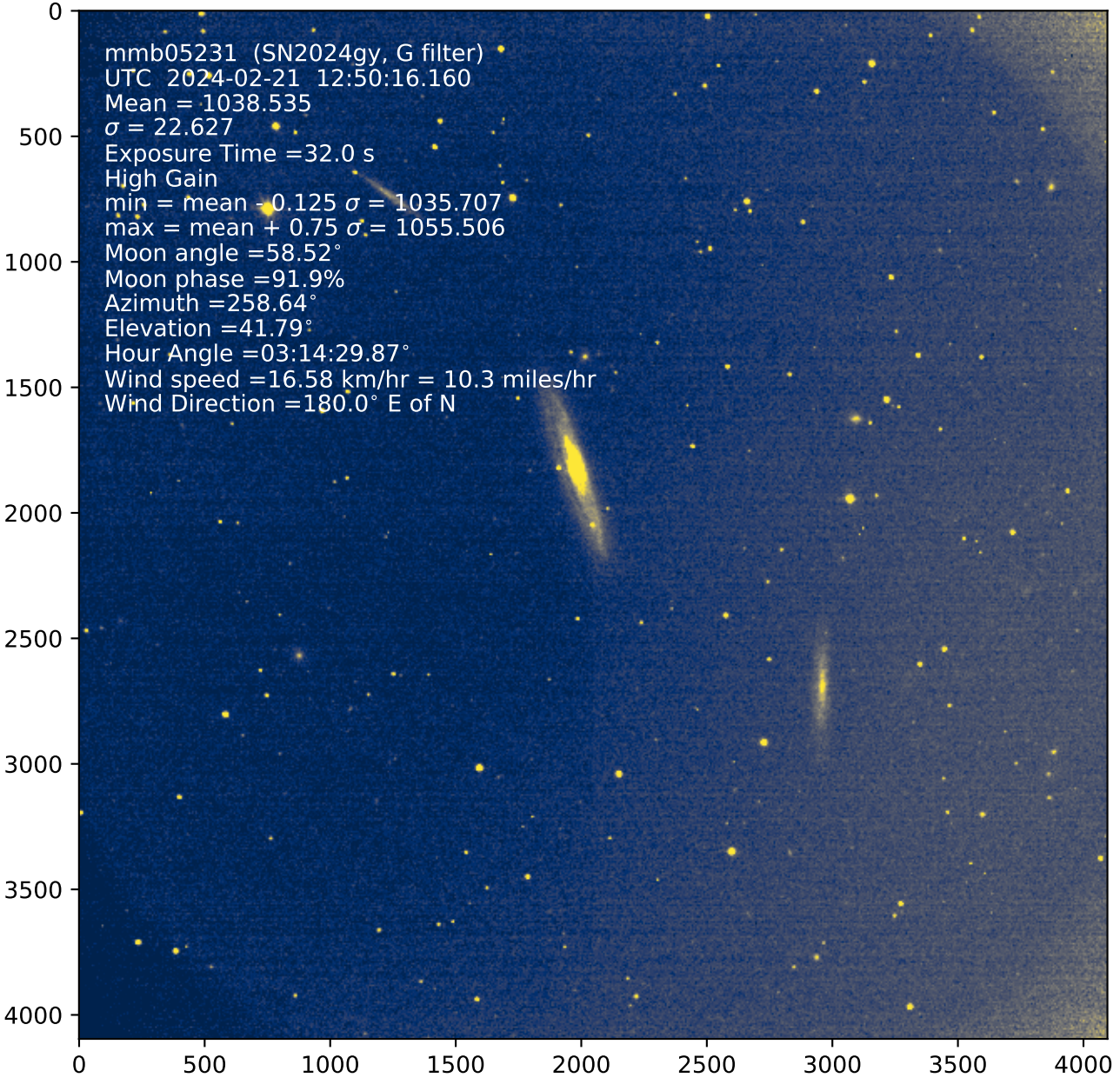
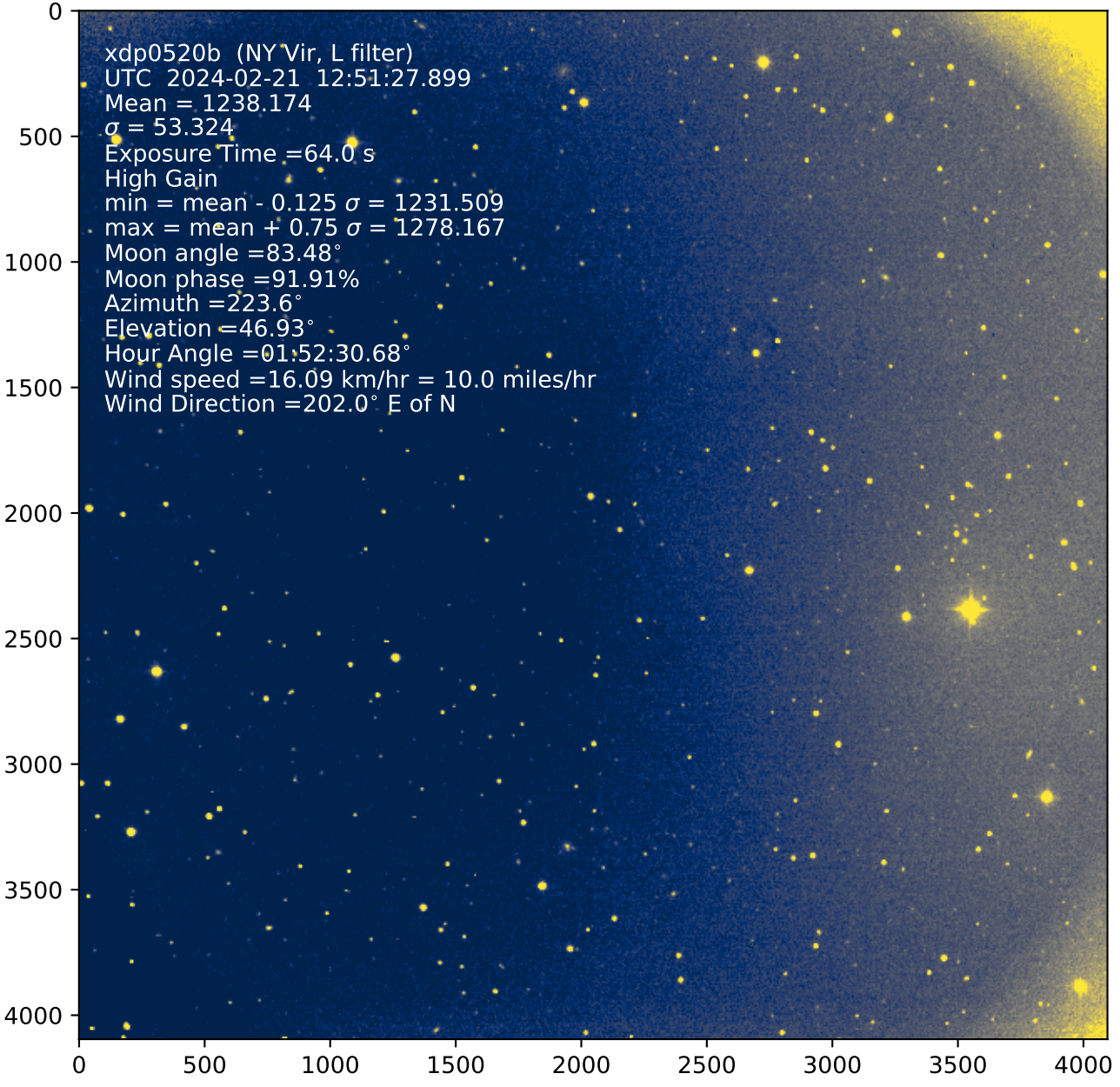
3500
4000


mmb05231 (SN2024gy, G filter)
UTC 2024-02-21 12:50:16.160
Mean = 1038.535
σ = 22.627
Exposure Time =32.0 s
High Gain
min = mean - 0.125 σ = 1035.707
max = mean + 0.75 σ = 1055.506
Moon angle =58.52°
Moon phase =91.9%
Azimuth =258.64°
Elevation =41.79°
Hour Angle =03:14:29.87°
Wind speed =16.58 km/hr = 10.3 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


xdp0520b (NY Vir, L filter)
UTC 2024-02-21 12:51:27.899
Mean = 1238.174
σ = 53.324
Exposure Time =64.0 s
High Gain
min = mean - 0.125 σ = 1231.509
max = mean + 0.75 σ = 1278.167
Moon angle =83.48°
Moon phase =91.91%
Azimuth =223.6°
Elevation =46.93°
Hour Angle =01:52:30.68°
Wind speed =16.09 km/hr = 10.0 miles/hr
Wind Direction =202.0° E of N
0
500
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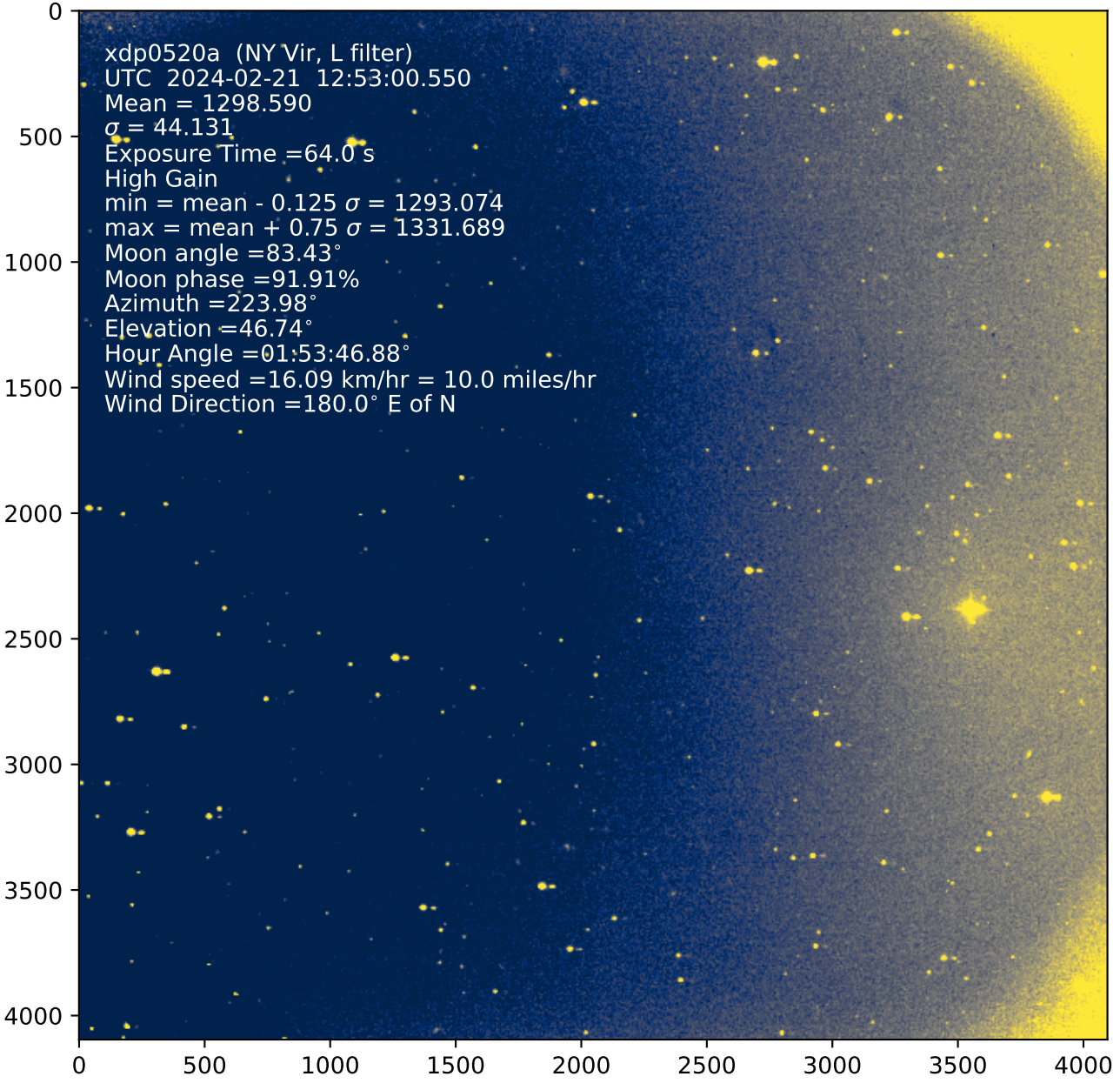
2500
3000
3500
4000


xdp0520a (NY Vir, L filter)
UTC 2024-02-21 12:53:00.550
Mean = 1298.590
σ = 44.131
Exposure Time =64.0 s
High Gain
min = mean - 0.125 σ = 1293.074
max = mean + 0.75 σ = 1331.689
Moon angle =83.43°
Moon phase =91.91%
Azimuth =223.98°
Elevation =46.74°
Hour Angle =01:53:46.88°
Wind speed =16.09 km/hr = 10.0 miles/hr
Wind Direction =180.0° E of N
0
500
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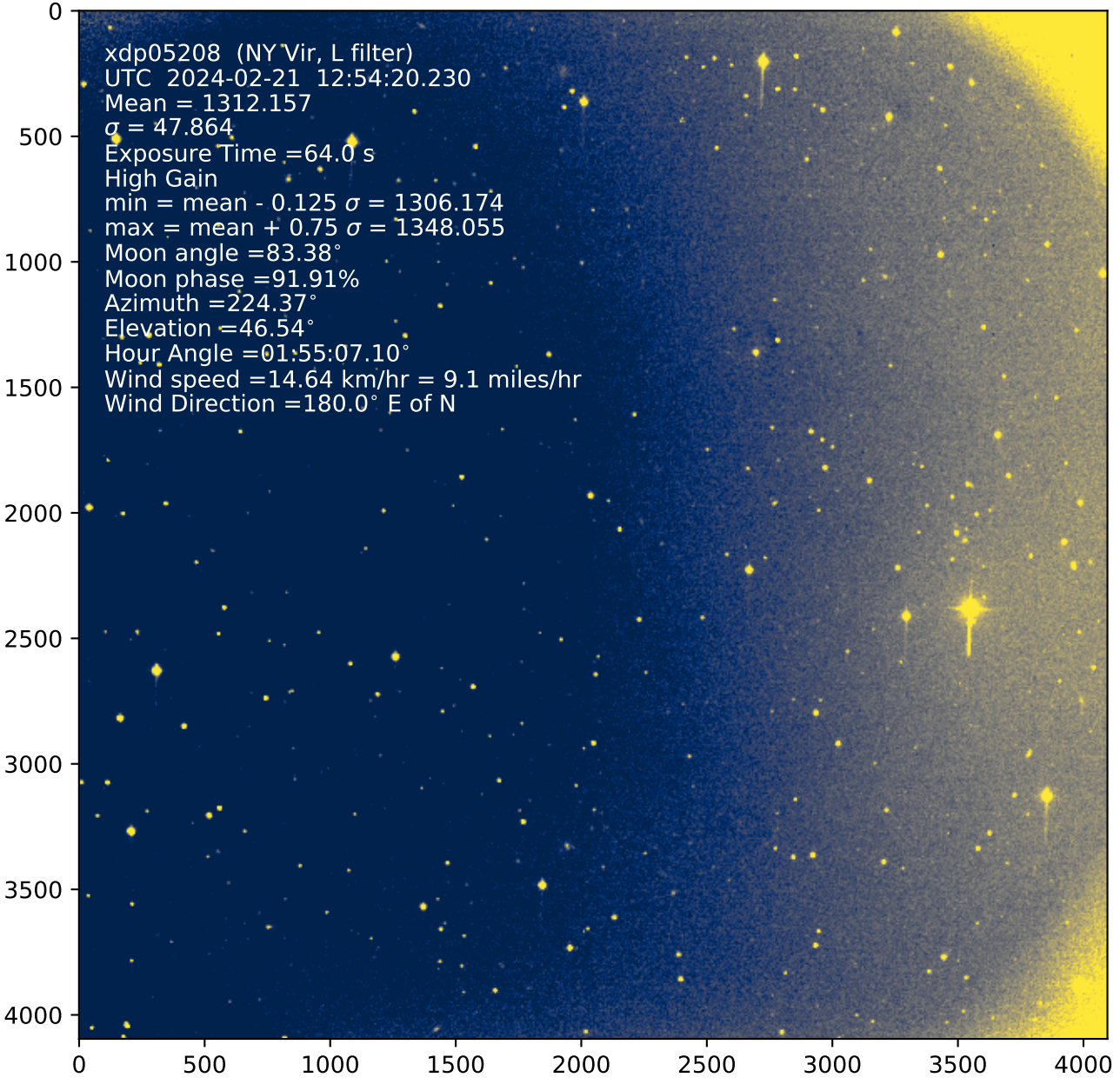
1500
2000
2500
3000
3500
4000


xdp05208 (NY Vir, L filter)
UTC 2024-02-21 12:54:20.230
Mean = 1312.157
σ = 47.864
Exposure Time =64.0 s
High Gain
min = mean - 0.125 σ = 1306.174
max = mean + 0.75 σ = 1348.055
Moon angle =83.38°
Moon phase =91.91%
Azimuth =224.37°
Elevation =46.54°
Hour Angle =01:55:07.10°
Wind speed =14.64 km/hr = 9.1 miles/hr
Wind Direction =180.0° E of N
0
500
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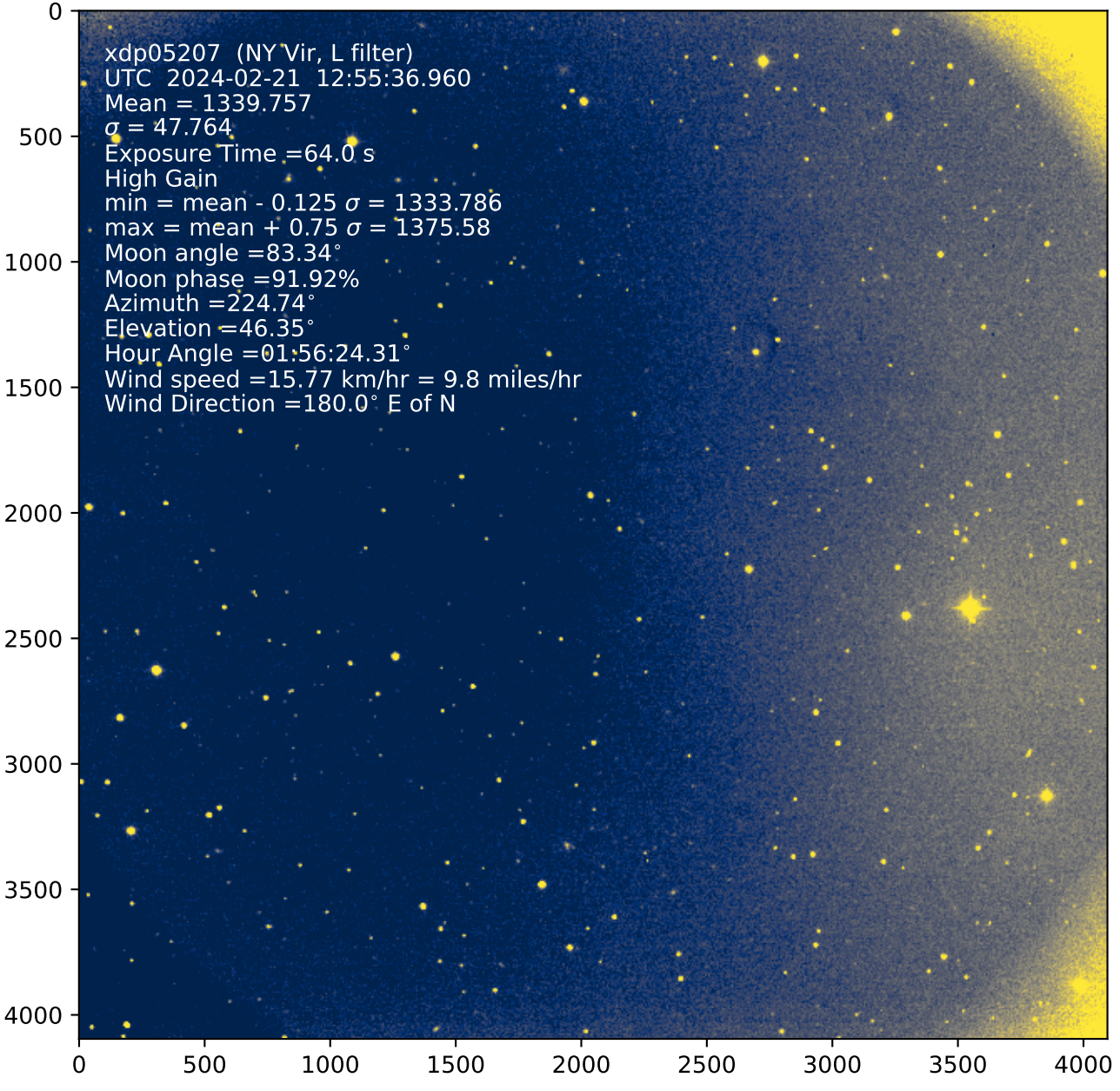
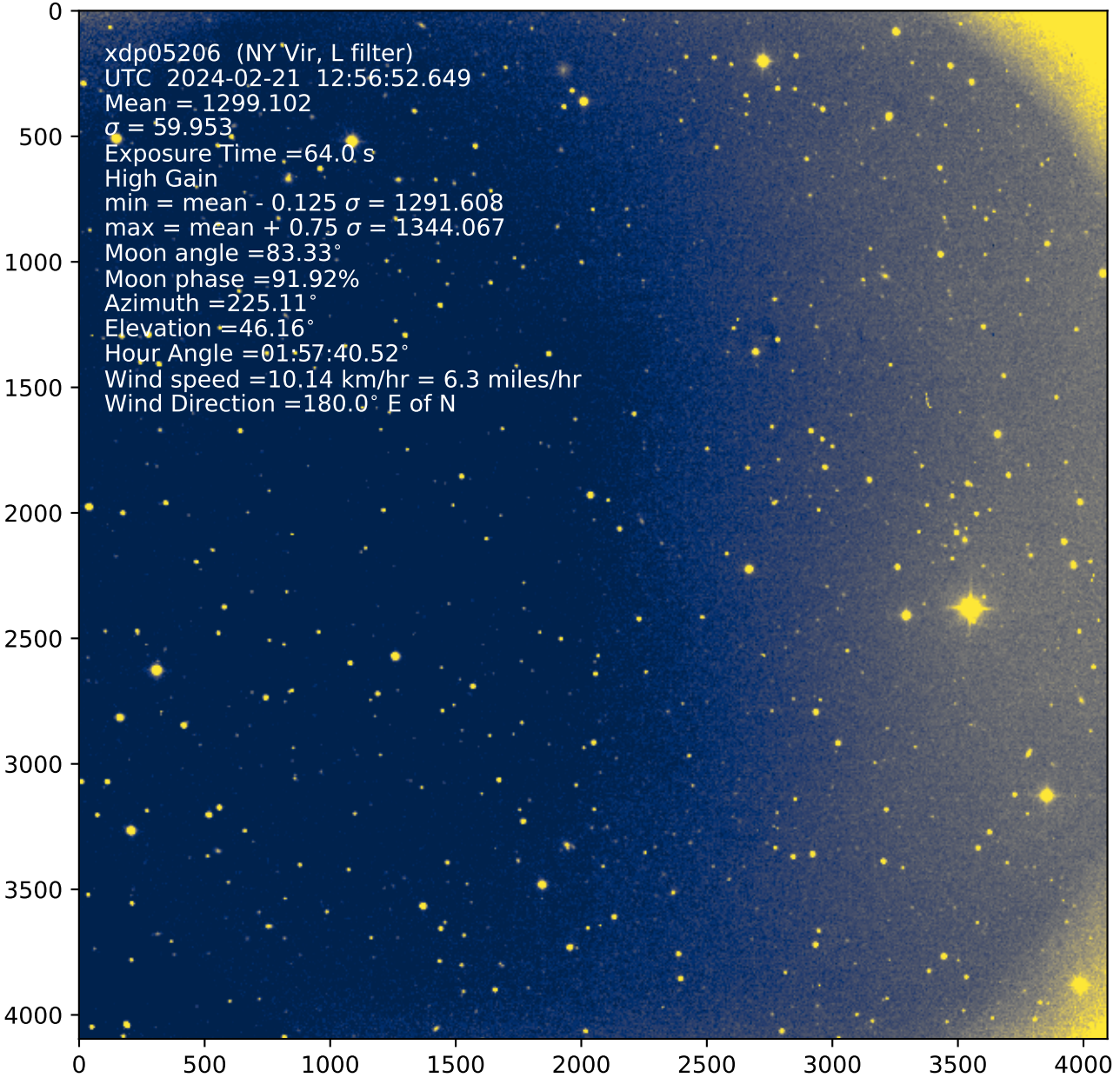
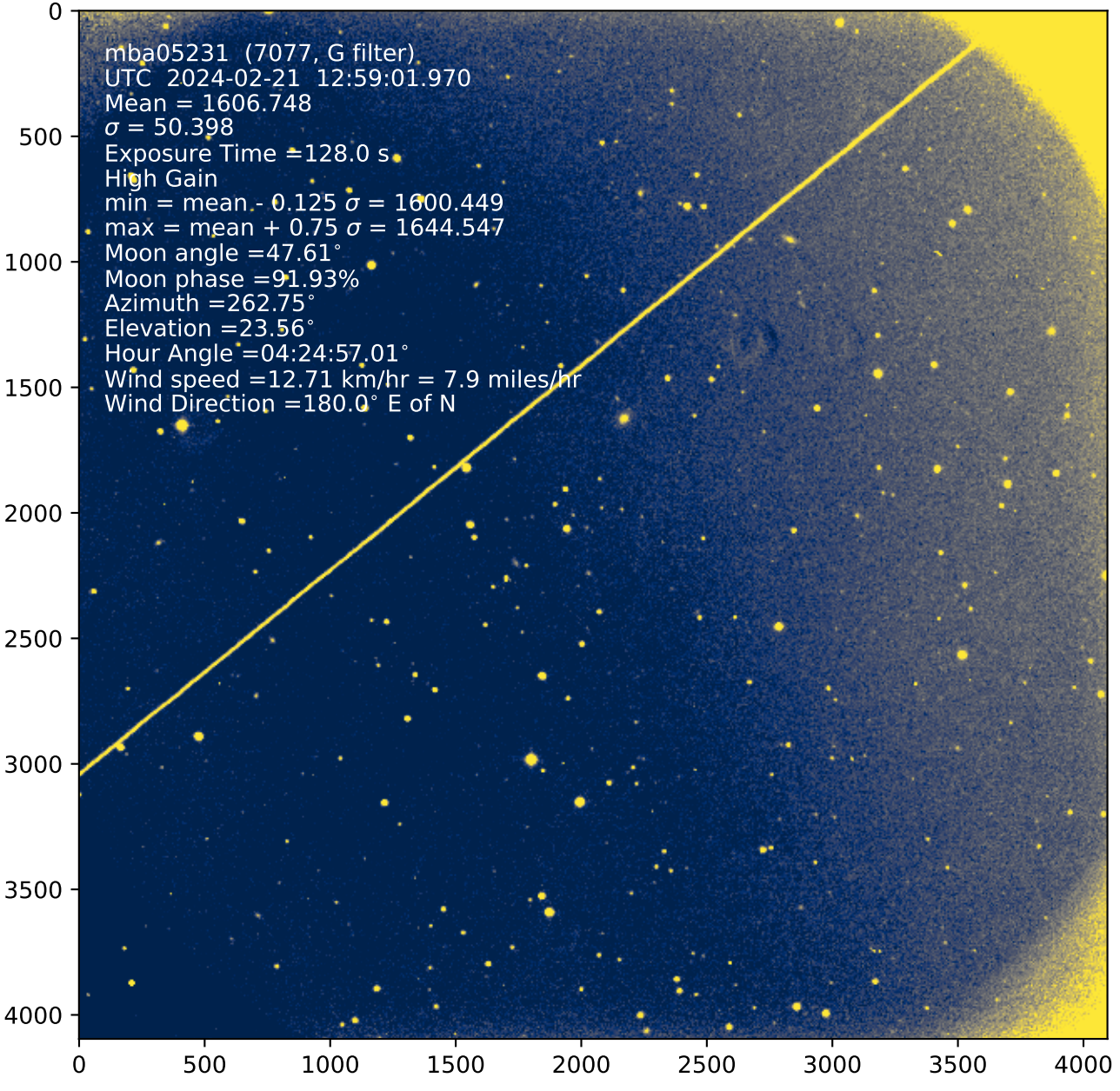
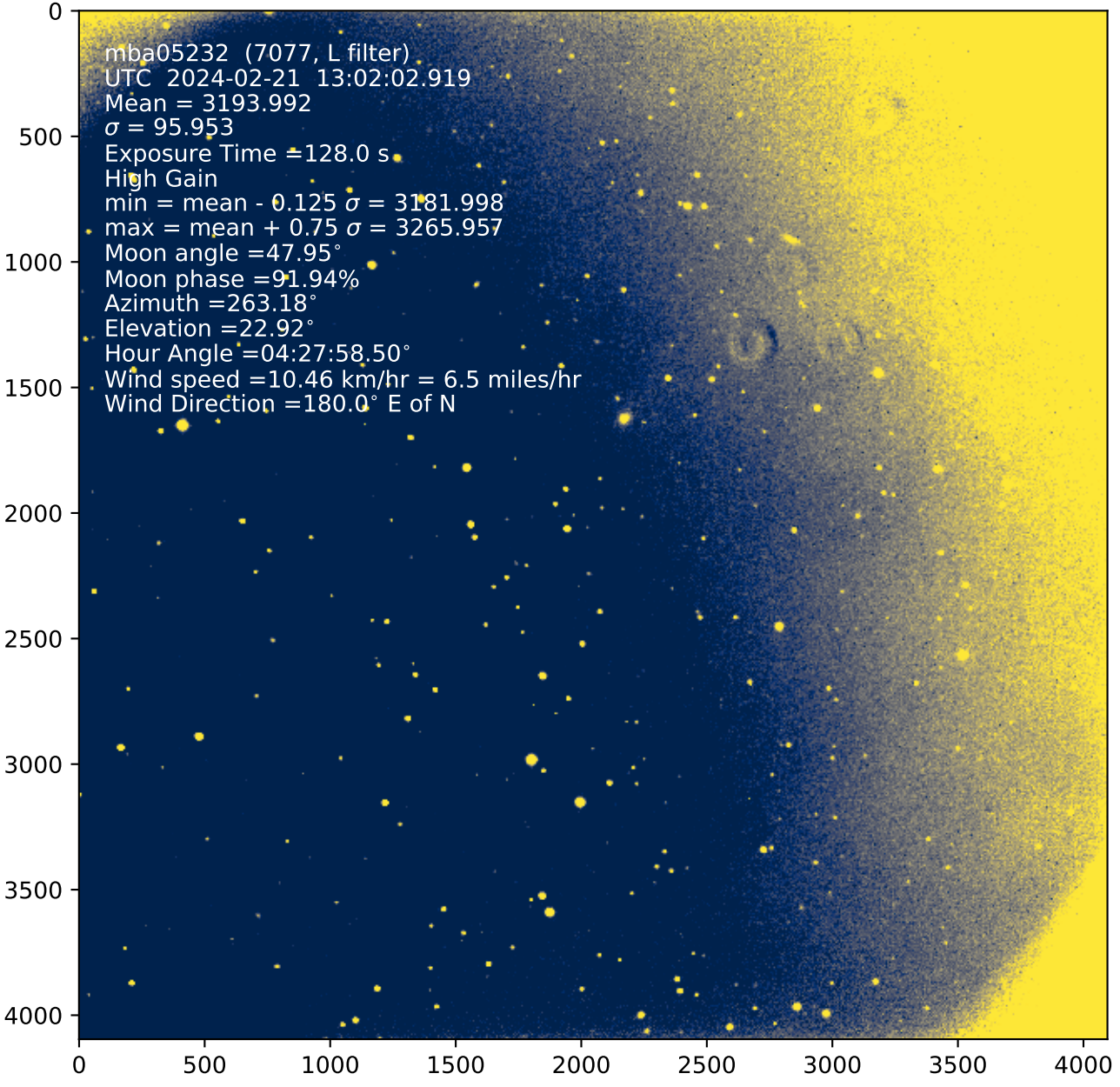
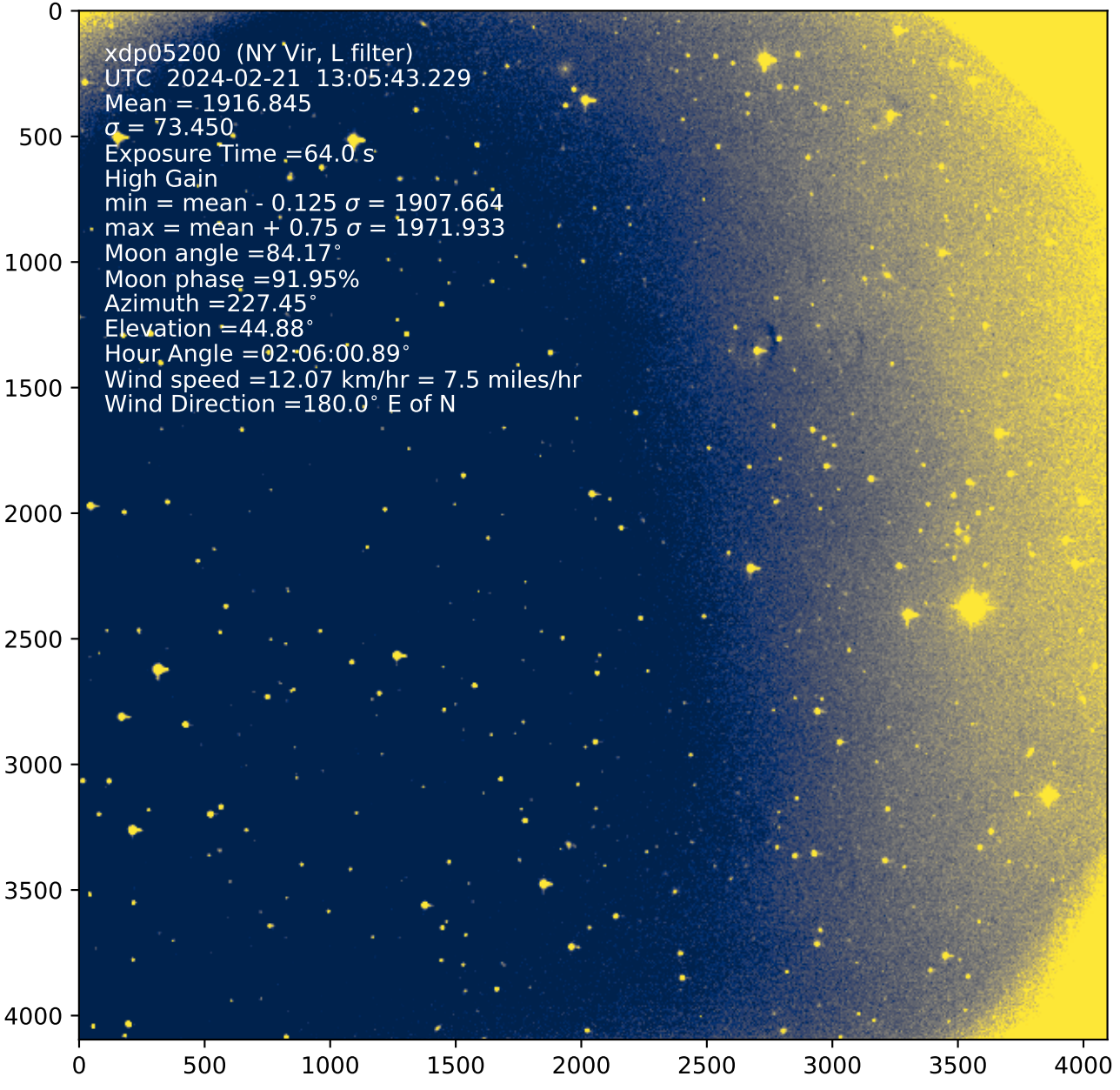
2000
2500
3000
3500
4000


xdp05207 (NY Vir, L filter)
UTC 2024-02-21 12:55:36.960
Mean = 1339.757
σ = 47.764
Exposure Time =64.0 s
High Gain
min = mean - 0.125 σ = 1333.786
max = mean + 0.75 σ = 1375.58
Moon angle =83.34°
Moon phase =91.92%
Azimuth =224.74°
Elevation =46.35°
Hour Angle =01:56:24.31°
Wind speed =15.77 km/hr = 9.8 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


xdp05206 (NY Vir, L filter)
UTC 2024-02-21 12:56:52.649
Mean = 1299.102
σ = 59.953
Exposure Time =64.0 s
High Gain
min = mean - 0.125 σ = 1291.608
max = mean + 0.75 σ = 1344.067
Moon angle =83.33°
Moon phase =91.92%
Azimuth =225.11°
Elevation =46.16°
Hour Angle =01:57:40.52°
Wind speed =10.14 km/hr = 6.3 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mba05231 (7077, G filter)
UTC 2024-02-21 12:59:01.970
Mean = 1606.748
σ = 50.398
Exposure Time =128.0 s
High Gain
min = mean - 0.125 σ = 1600.449
max = mean + 0.75 σ = 1644.547
Moon angle =47.61˚
Moon phase =91.93%
Azimuth =262.75˚
Elevation =23.56˚
Hour Angle =04:24:57.01˚
Wind speed =12.71 km/hr = 7.9 miles/hr
Wind Direction =180.0˚ E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mba05232 (7077, L filter)
UTC 2024-02-21 13:02:02.919
Mean = 3193.992
σ = 95.953
Exposure Time =128.0 s
High Gain
min = mean - 0.125 σ = 3181.998
max = mean + 0.75 σ = 3265.957
Moon angle =47.95°
Moon phase =91.94%
Azimuth =263.18°
Elevation =22.92°
Hour Angle =04:27:58.50°
Wind speed =10.46 km/hr = 6.5 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


xdp05200 (NY Vir, L filter)
UTC 2024-02-21 13:05:43.229
Mean = 1916.845
σ = 73.450
Exposure Time =64.0 s
High Gain
min = mean - 0.125 σ = 1907.664
max = mean + 0.75 σ = 1971.933
Moon angle =84.17°
Moon phase =91.95%
Azimuth =227.45°
Elevation =44.88°
Hour Angle =02:06:00.89°
Wind speed =12.07 km/hr = 7.5 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000