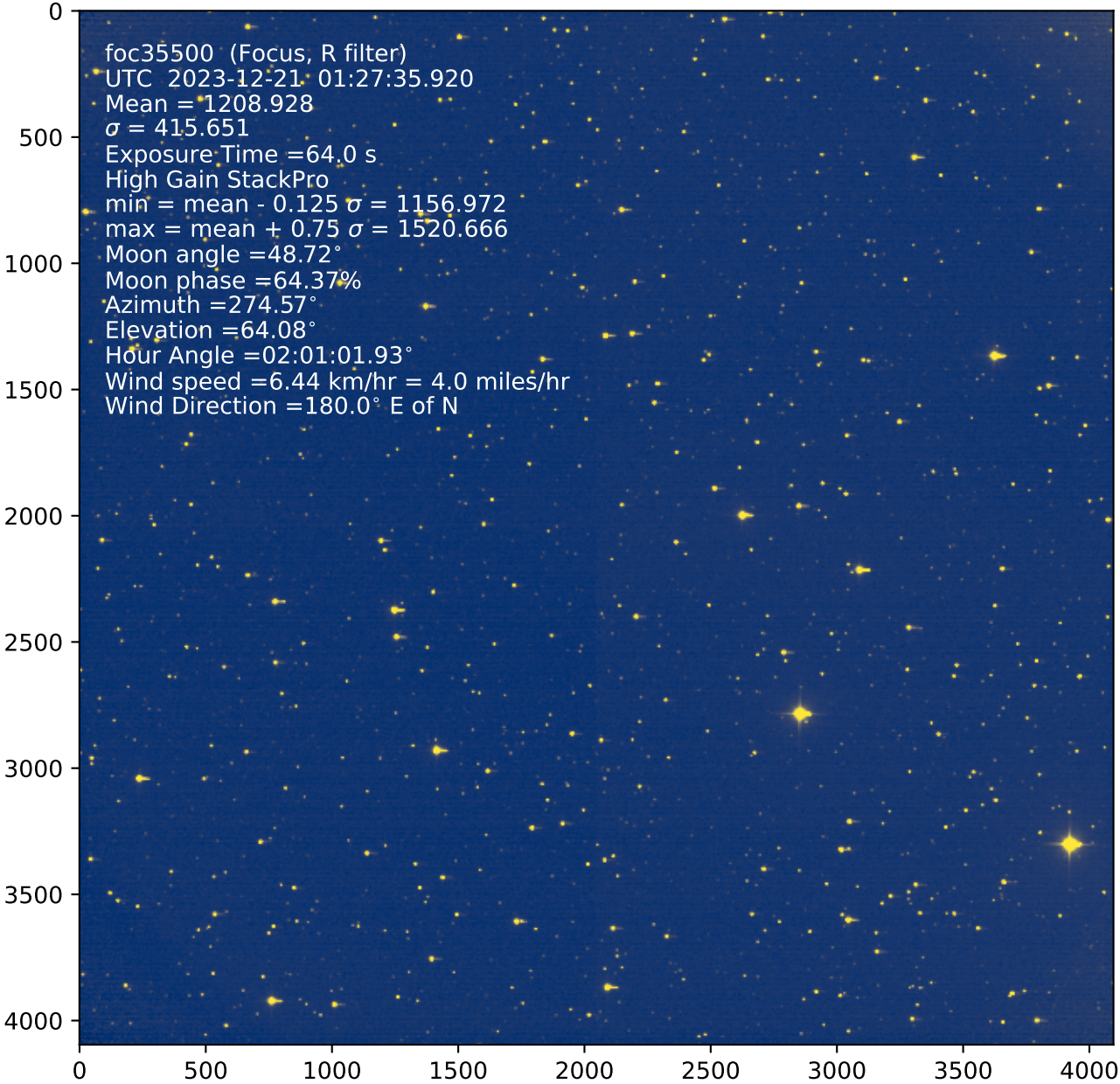
foc35500 (Focus, R filter)
UTC 2023-12-21 01:27:35.920
Mean = 1208.928
σ = 415.651
Exposure Time =64.0 s
High Gain StackPro
min = mean - 0.125 σ = 1156.972
max = mean + 0.75 σ = 1520.666
Moon angle =48.72°
Moon phase =64.37%
Azimuth =274.57°
Elevation =64.08°
Hour Angle =02:01:01.93°
Wind speed =6.44 km/hr = 4.0 miles/hr
Wind Direction =180.0° E of N
0
500
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2500
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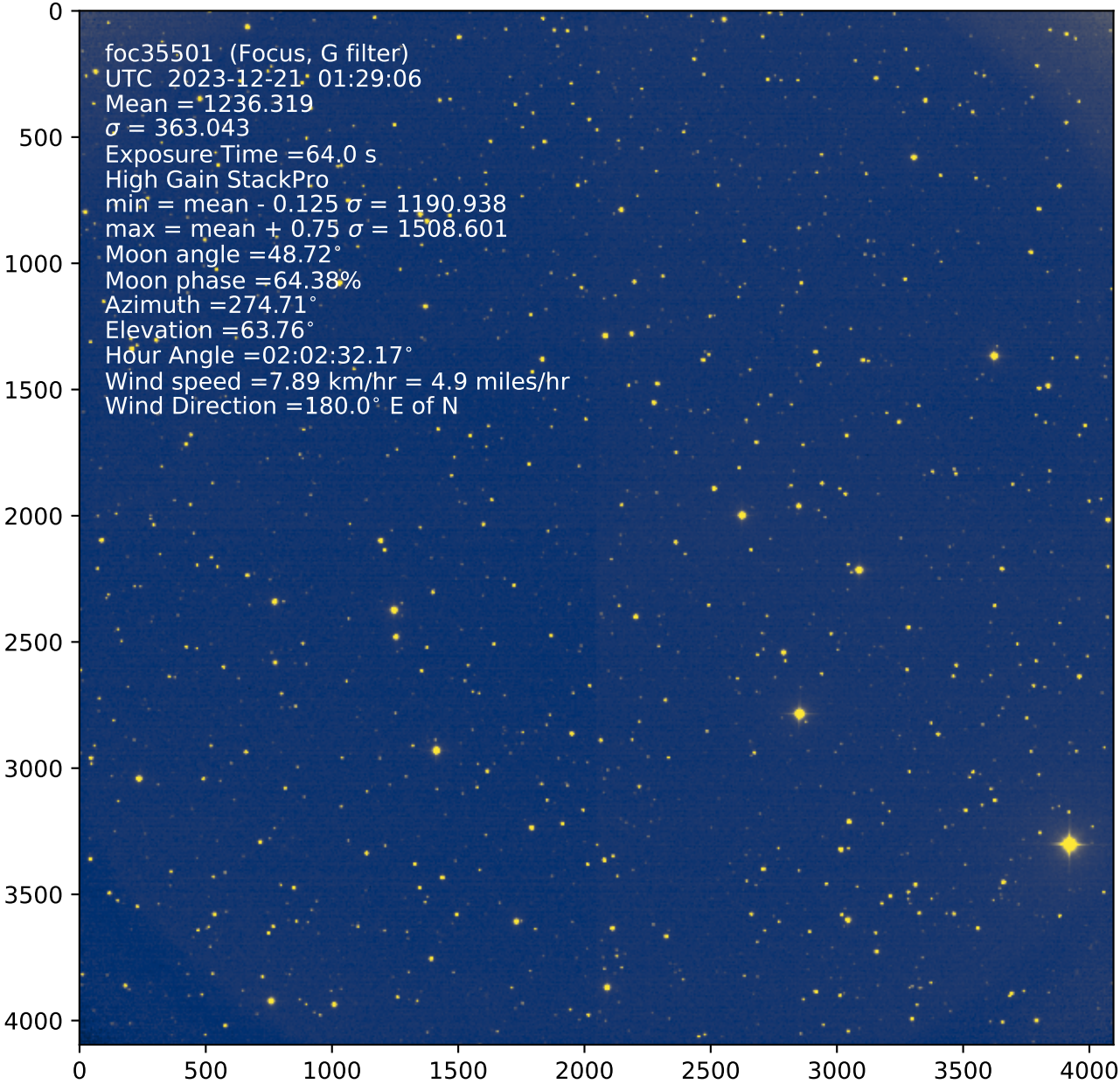
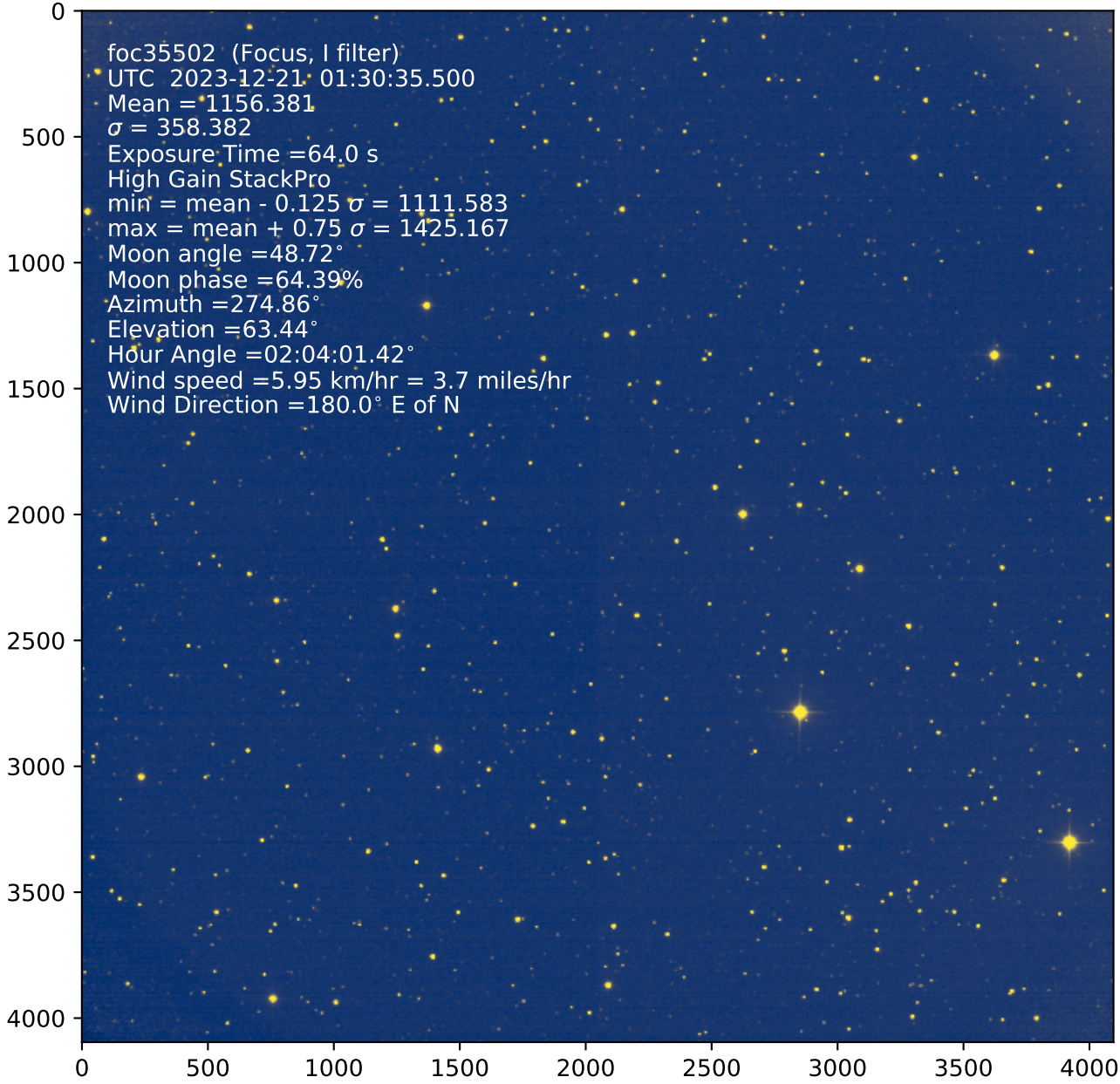
3500
4000


foc35501 (Focus, G filter)
UTC 2023-12-21 01:29:06
Mean = 1236.319
σ = 363.043
Exposure Time =64.0 s
High Gain StackPro
min = mean - 0.125 σ = 1190.938
max = mean + 0.75 σ = 1508.601
Moon angle =48.72°
Moon phase =64.38%
Azimuth =274.71°
Elevation =63.76°
Hour Angle =02:02:32.17°
Wind speed =7.89 km/hr = 4.9 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


foc35502 (Focus, I filter)
UTC 2023-12-21 01:30:35.500
Mean = 1156.381
σ = 358.382
Exposure Time =64.0 s
High Gain StackPro
min = mean - 0.125 σ = 1111.583
max = mean + 0.75 σ = 1425.167
Moon angle =48.72°
Moon phase =64.39%
Azimuth =274.86°
Elevation =63.44°
Hour Angle =02:04:01.42°
Wind speed =5.95 km/hr = 3.7 miles/hr
Wind Direction =180.0° E of N
0
500
1000
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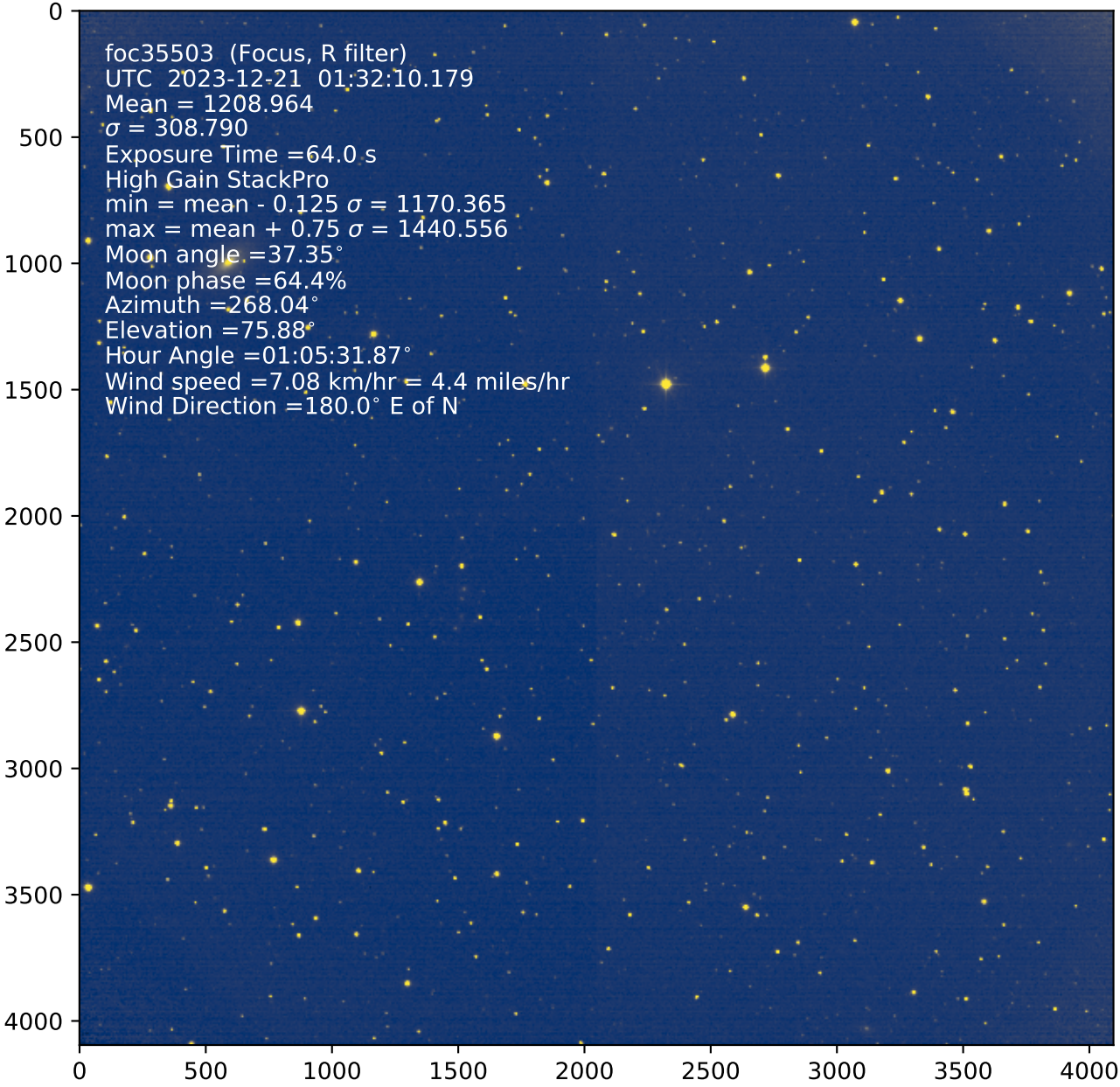
2000
2500
3000
3500
4000


foc35503 (Focus, R filter)
UTC 2023-12-21 01:32:10.179
Mean = 1208.964
σ = 308.790
Exposure Time =64.0 s
High Gain StackPro
min = mean - 0.125 σ = 1170.365
max = mean + 0.75 σ = 1440.556
Moon angle =37.35°
Moon phase =64.4%
Azimuth =268.04°
Elevation =75.88°
Hour Angle =01:05:31.87°
Wind speed =7.08 km/hr = 4.4 miles/hr
Wind Direction =180.0° E of N
0
500
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1500
2000
2500
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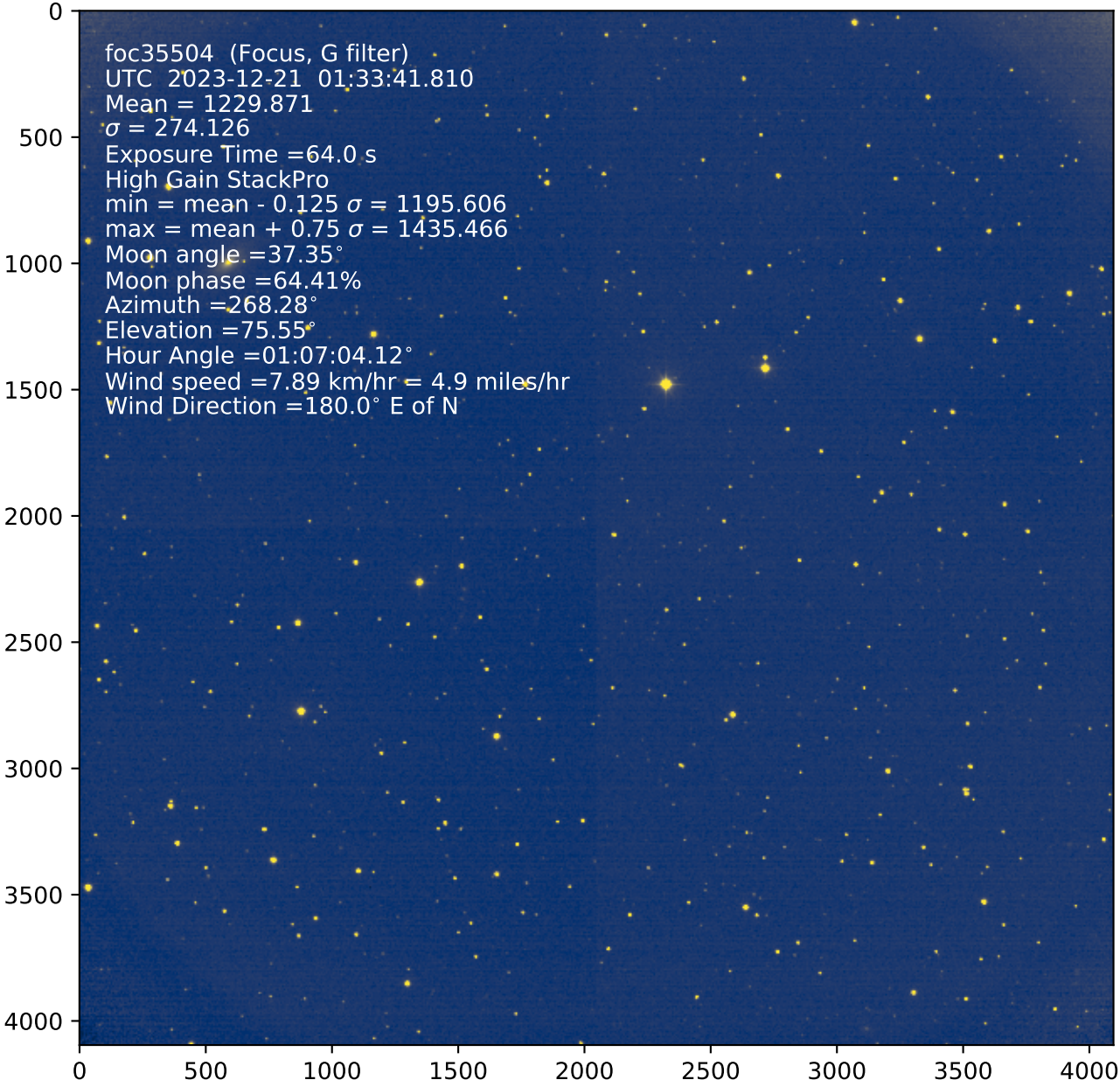
3500
4000


foc35504 (Focus, G filter)
UTC 2023-12-21 01:33:41.810
Mean = 1229.871
σ = 274.126
Exposure Time =64.0 s
High Gain StackPro
min = mean - 0.125 σ = 1195.606
max = mean + 0.75 σ = 1435.466
Moon angle =37.35°
Moon phase =64.41%
Azimuth =268.28°
Elevation =75.55°
Hour Angle =01:07:04.12°
Wind speed =7.89 km/hr = 4.9 miles/hr
Wind Direction =180.0° E of N
0
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2500
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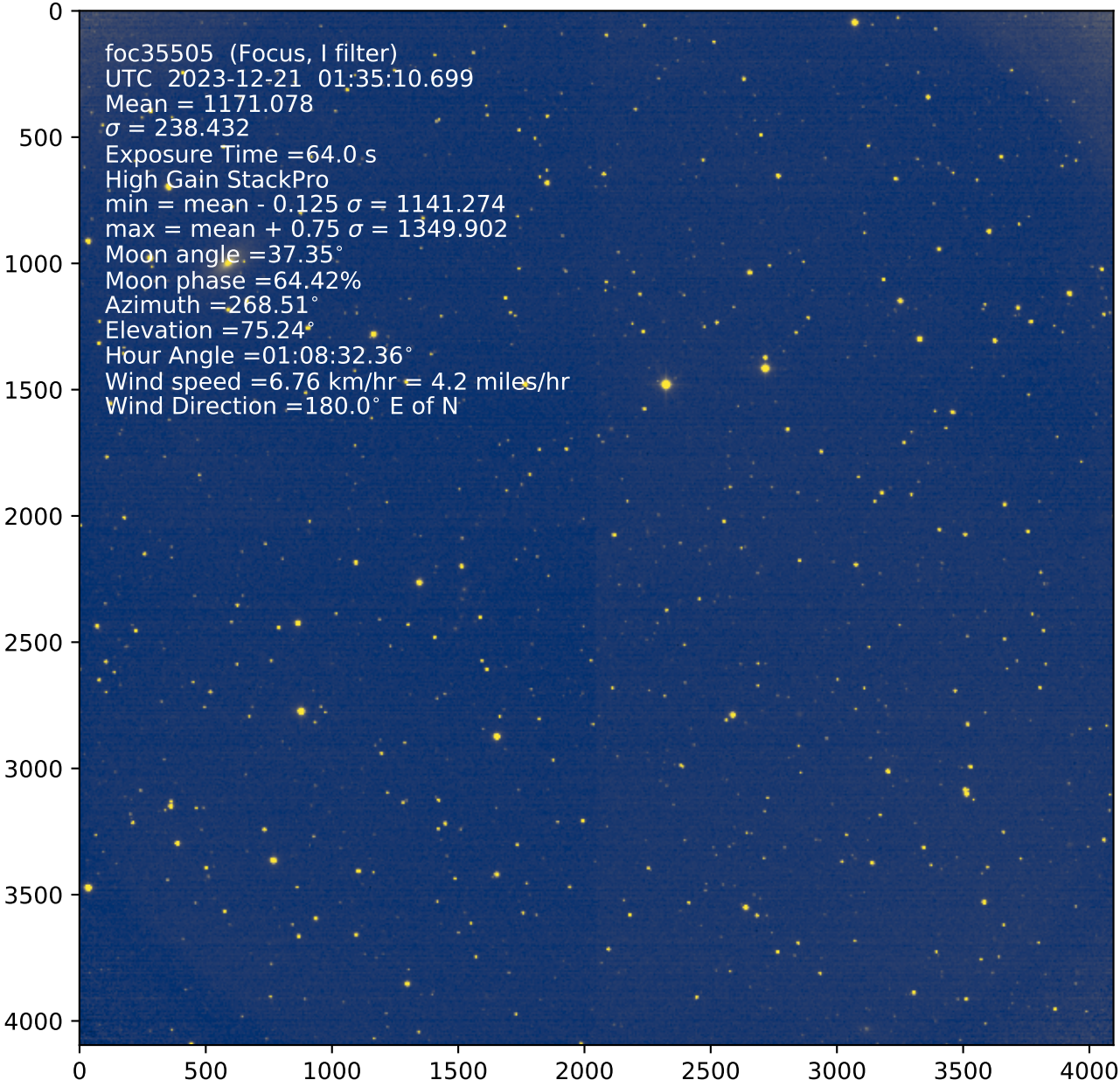
foc35505 (Focus, I filter)
UTC 2023-12-21 01:35:10.699
Mean = 1171.078
σ = 238.432
Exposure Time =64.0 s
High Gain StackPro
min = mean - 0.125 σ = 1141.274
max = mean + 0.75 σ = 1349.902
Moon angle =37.35°
Moon phase =64.42%
Azimuth =268.51°
Elevation =75.24°
Hour Angle =01:08:32.36°
Wind speed =6.76 km/hr = 4.2 miles/hr
Wind Direction =180.0° E of N
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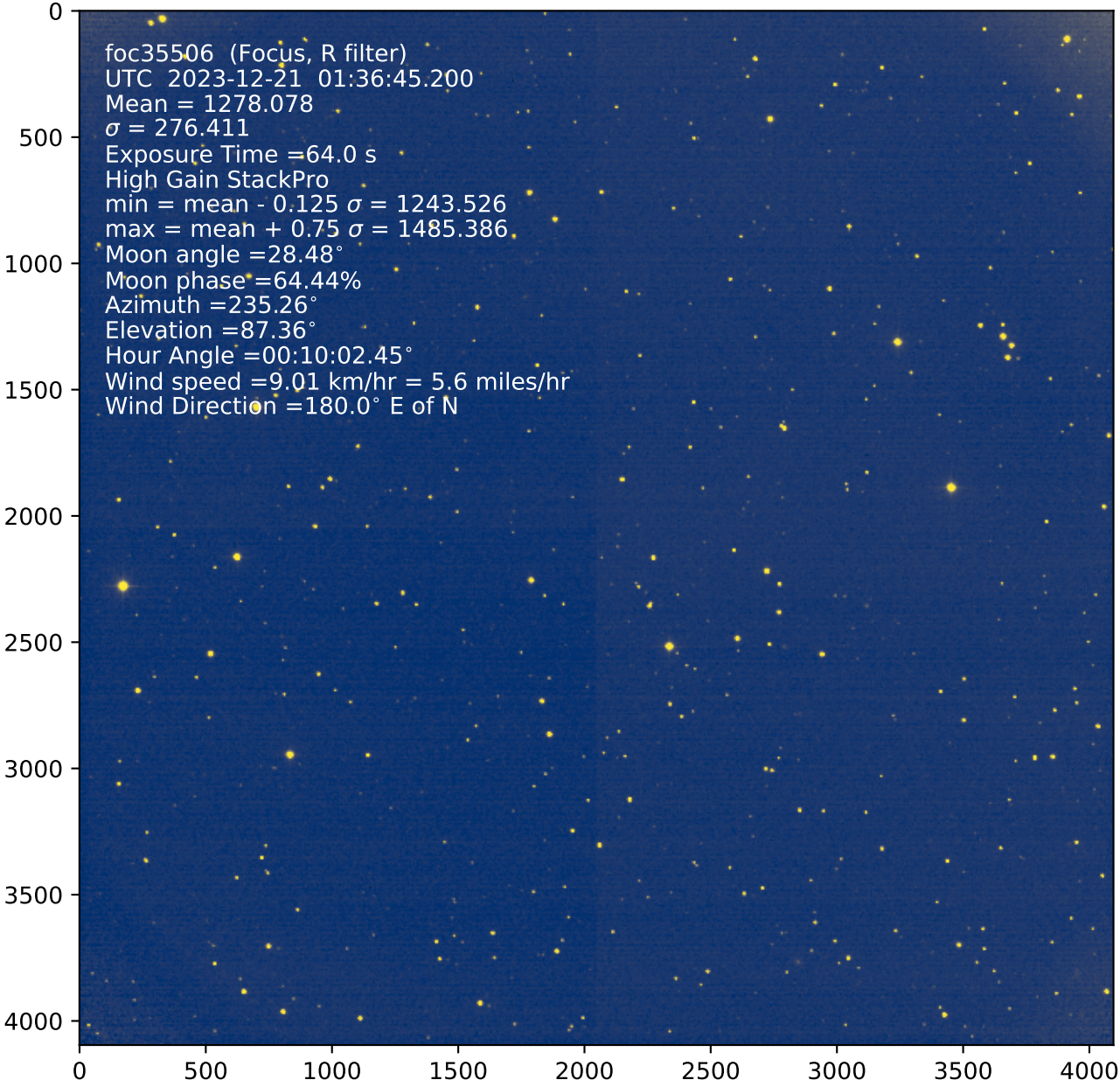
4000


foc35506 (Focus, R filter)
UTC 2023-12-21 01:36:45.200
Mean = 1278.078
σ = 276.411
Exposure Time =64.0 s
High Gain StackPro
min = mean - 0.125 σ = 1243.526
max = mean + 0.75 σ = 1485.386
Moon angle =28.48°
Moon phase =64.44%
Azimuth =235.26°
Elevation =87.36°
Hour Angle =00:10:02.45°
Wind speed =9.01 km/hr = 5.6 miles/hr
Wind Direction =180.0° E of N
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3000
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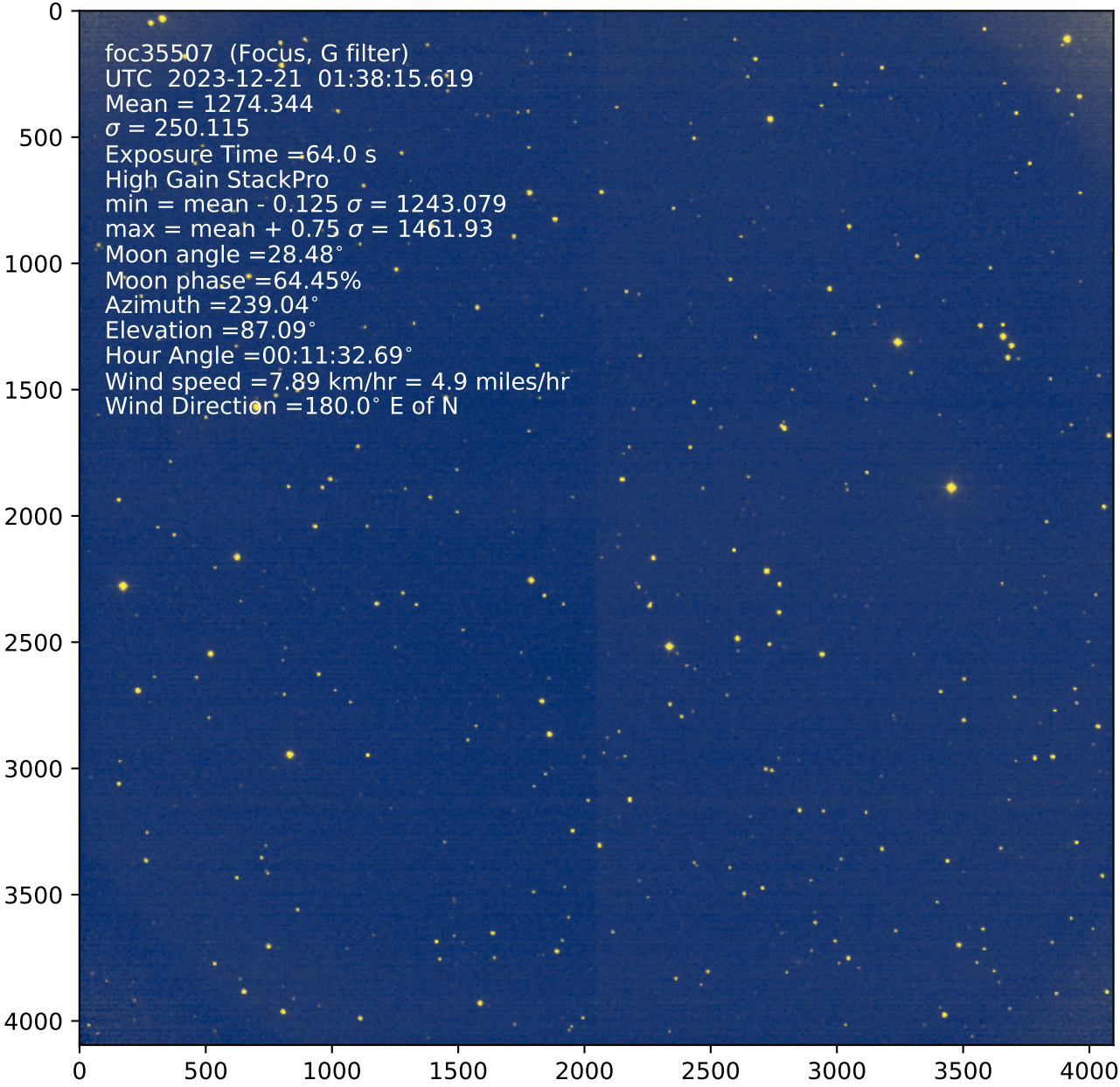
foc35507 (Focus, G filter)
UTC 2023-12-21 01:38:15.619
Mean = 1274.344
σ = 250.115
Exposure Time =64.0 s
High Gain StackPro
min = mean - 0.125 σ = 1243.079
max = mean + 0.75 σ = 1461.93
Moon angle =28.48°
Moon phase =64.45%
Azimuth =239.04°
Elevation =87.09°
Hour Angle =00:11:32.69°
Wind speed =7.89 km/hr = 4.9 miles/hr
Wind Direction =180.0° E of N
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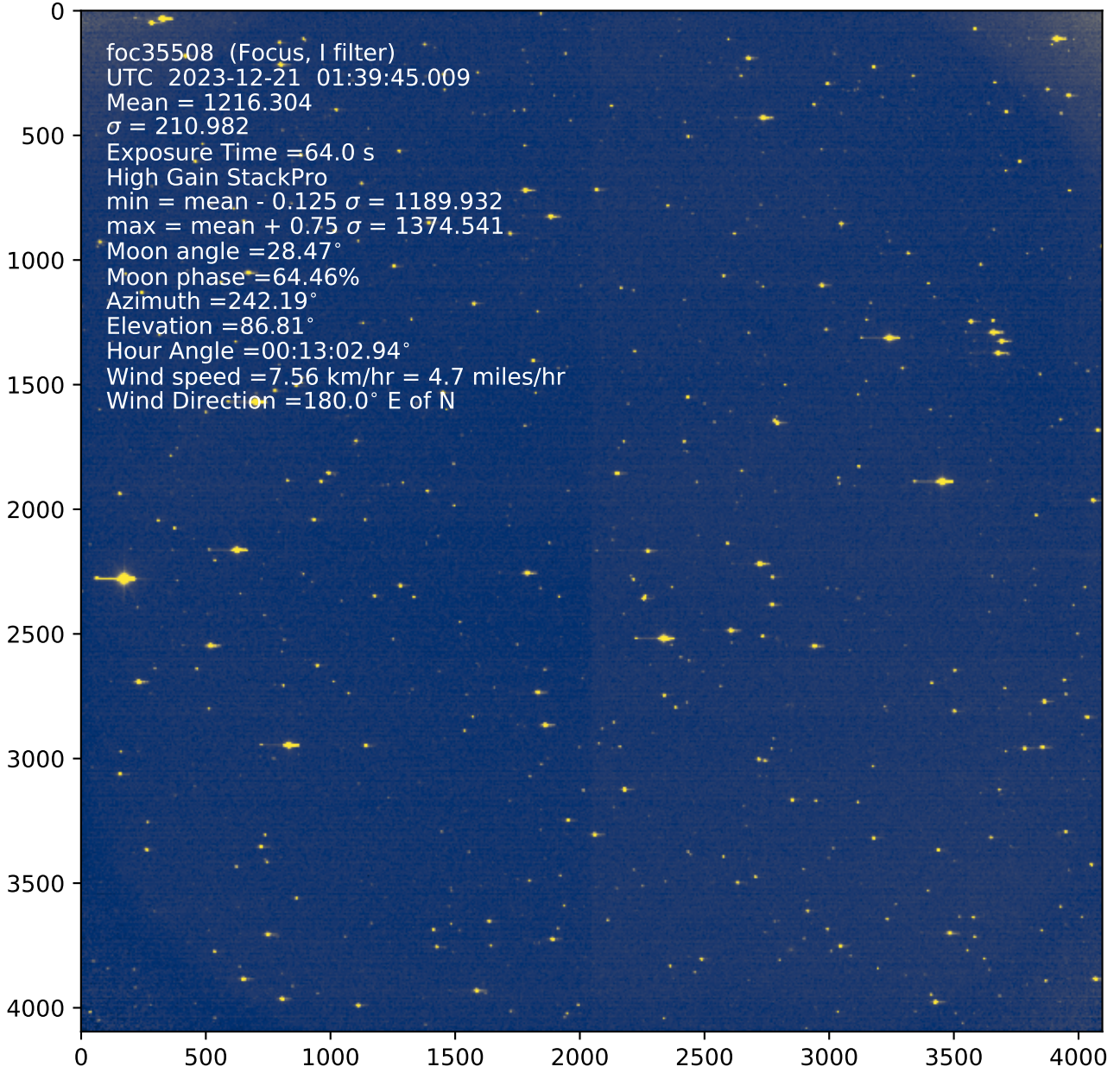
4000


foc35508 (Focus, I filter)
UTC 2023-12-21 01:39:45.009
Mean = 1216.304
σ = 210.982
Exposure Time =64.0 s
High Gain StackPro
min = mean - 0.125 σ = 1189.932
max = mean + 0.75 σ = 1374.541
Moon angle =28.47°
Moon phase =64.46%
Azimuth =242.19°
Elevation =86.81°
Hour Angle =00:13:02.94°
Wind speed =7.56 km/hr = 4.7 miles/hr
Wind Direction =180.0° E of N
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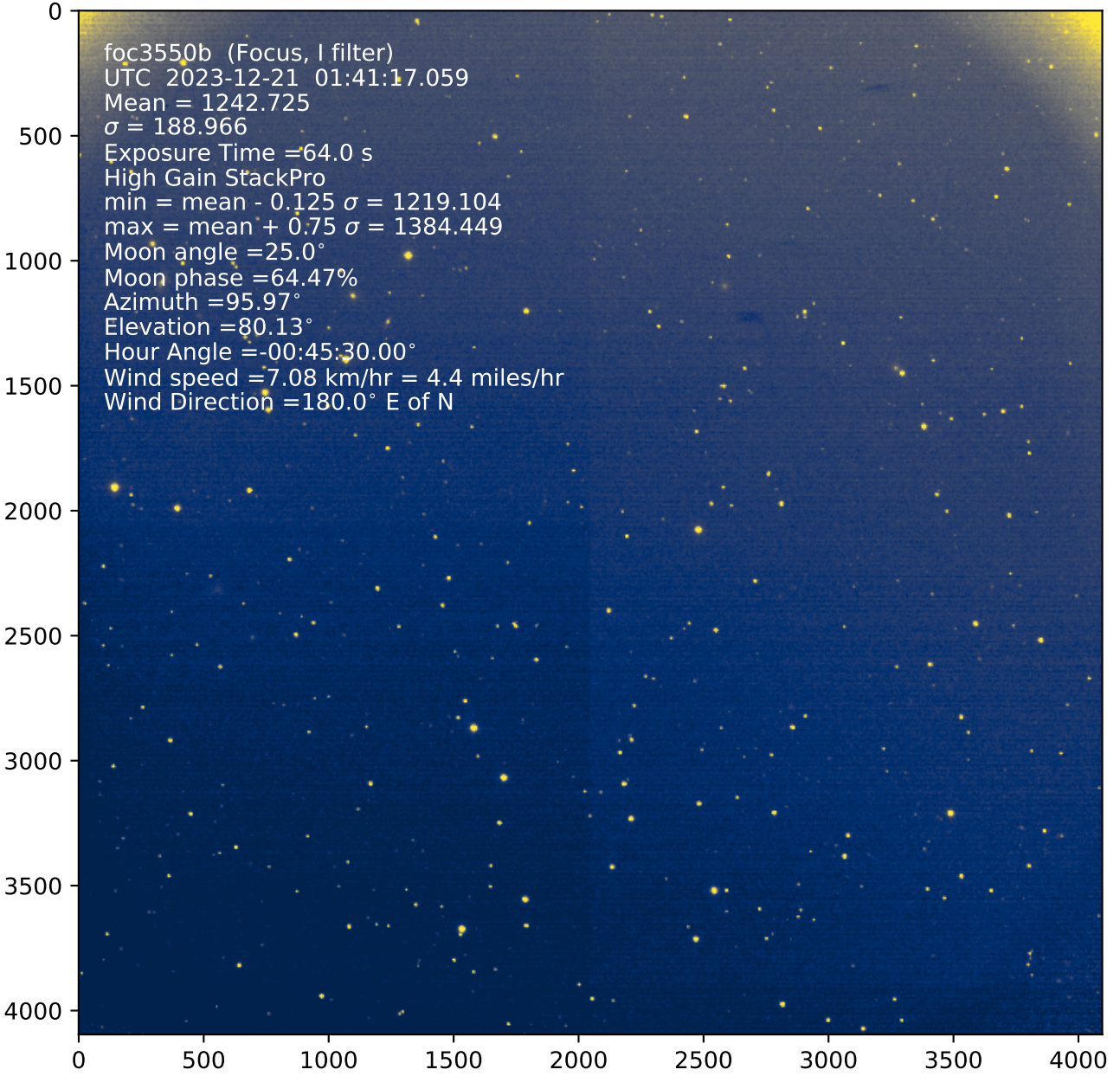
foc3550b (Focus, I filter)
UTC 2023-12-21 01:41:17.059
Mean = 1242.725
σ = 188.966
Exposure Time =64.0 s
High Gain StackPro
min = mean - 0.125 σ = 1219.104
max = mean + 0.75 σ = 1384.449
Moon angle =25.0°
Moon phase =64.47%
Azimuth =95.97°
Elevation =80.13°
Hour Angle =-00:45:30.00°
Wind speed =7.08 km/hr = 4.4 miles/hr
Wind Direction =180.0° E of N
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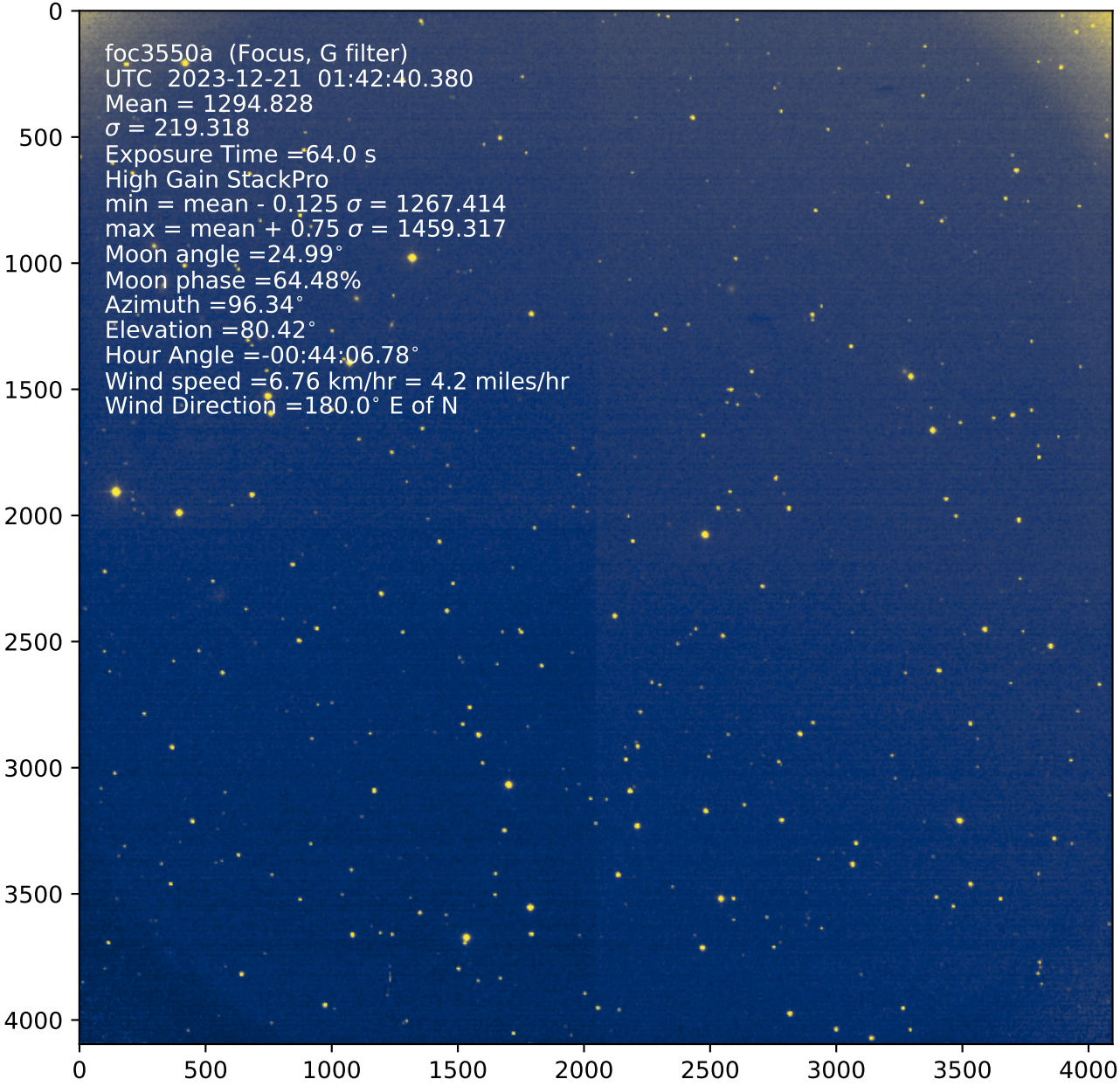
4000


foc3550a (Focus, G filter)
UTC 2023-12-21 01:42:40.380
Mean = 1294.828
σ = 219.318
Exposure Time =64.0 s
High Gain StackPro
min = mean - 0.125 σ = 1267.414
max = mean + 0.75 σ = 1459.317
Moon angle =24.99°
Moon phase =64.48%
Azimuth =96.34°
Elevation =80.42°
Hour Angle =-00:44:06.78°
Wind speed =6.76 km/hr = 4.2 miles/hr
Wind Direction =180.0° E of N
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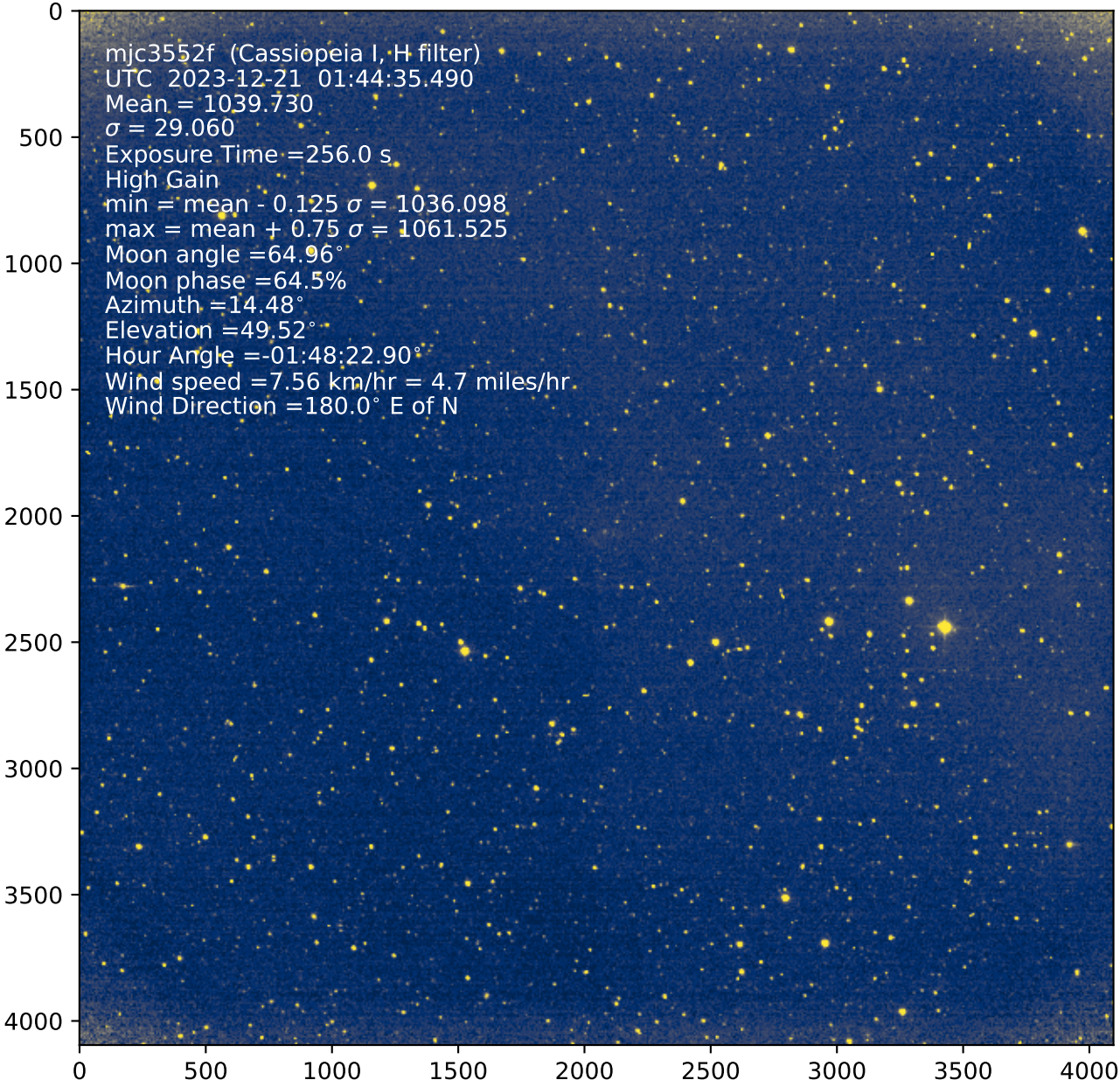
mjc3552f (Cassiopeia I, H filter)
UTC 2023-12-21 01:44:35.490
Mean = 1039.730
σ = 29.060
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1036.098
max = mean + 0.75 σ = 1061.525
Moon angle =64.96°
Moon phase =64.5%
Azimuth =14.48°
Elevation =49.52°
Hour Angle =-01:48:22.90°
Wind speed =7.56 km/hr = 4.7 miles/hr
Wind Direction =180.0° E of N
0
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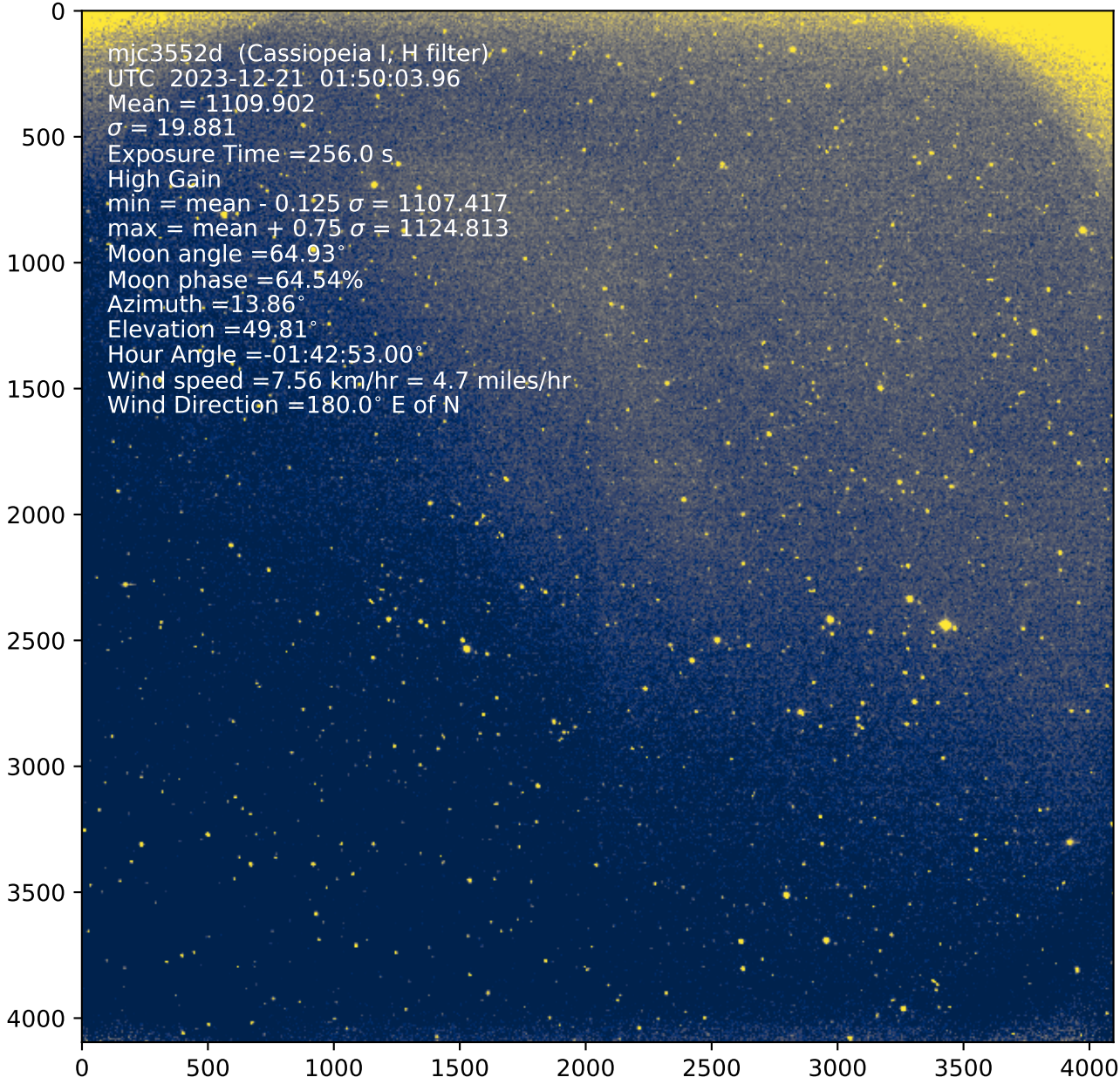
2500
3000
3500
4000


mjc3552d (Cassiopeia I, H filter)
UTC 2023-12-21 01:50:03.96
Mean = 1109.902
σ = 19.881
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1107.417
max = mean + 0.75 σ = 1124.813
Moon angle =64.93°
Moon phase =64.54%
Azimuth =13.86°
Elevation =49.81°
Hour Angle =-01:42:53.00°
Wind speed =7.56 km/hr = 4.7 miles/hr
Wind Direction =180.0° E of N
0
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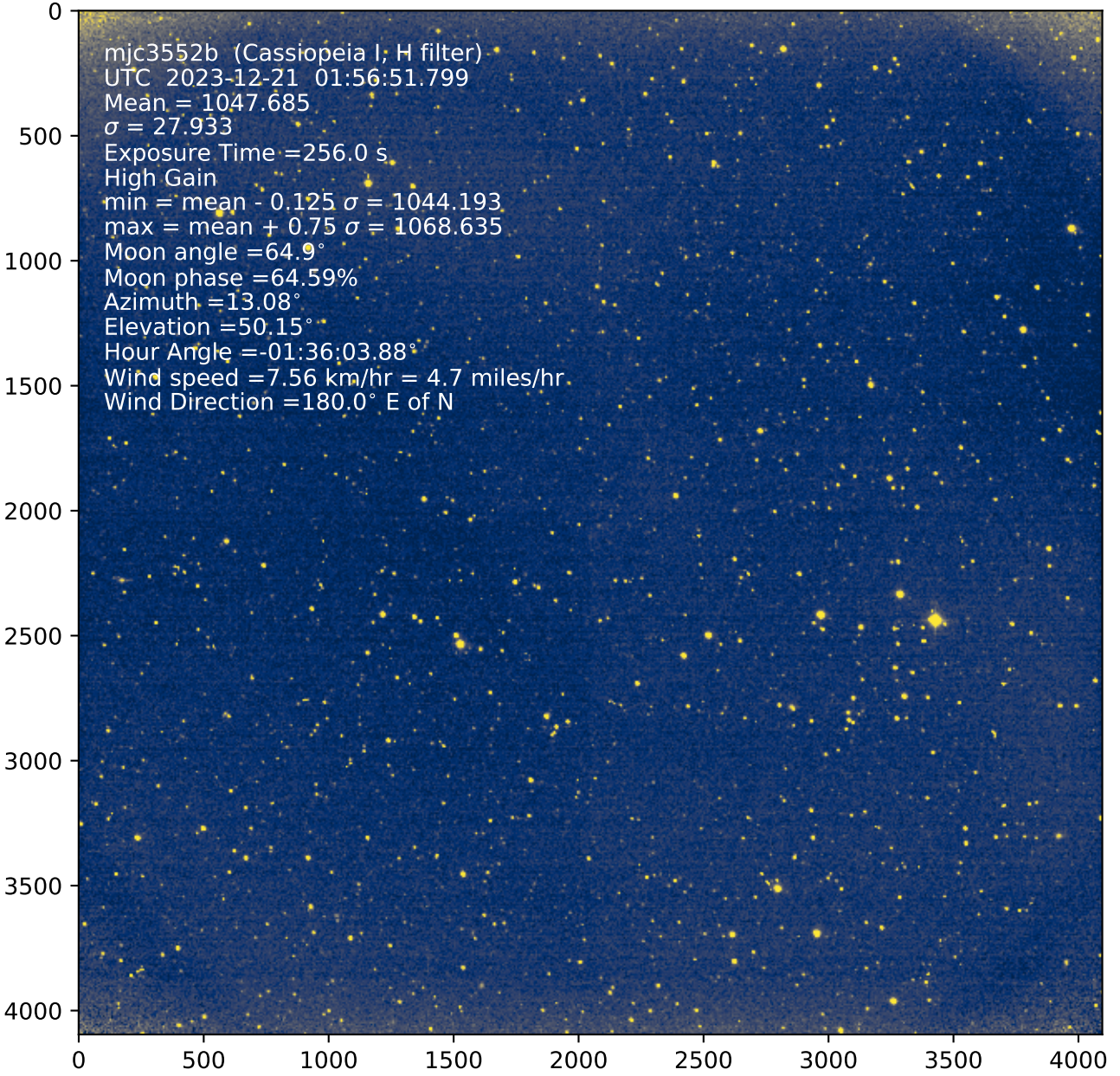
2500
3000
3500
4000


mjc3552b (Cassiopeia I; H filter)
UTC 2023-12-21 01:56:51.799
Mean = 1047.685
σ = 27.933
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1044.193
max = mean + 0.75 σ = 1068.635
Moon angle =64.9°
Moon phase =64.59%
Azimuth =13.08°
Elevation =50.15°
Hour Angle =-01:36:03.88°
Wind speed =7.56 km/hr = 4.7 miles/hr
Wind Direction =180.0° E of N
0
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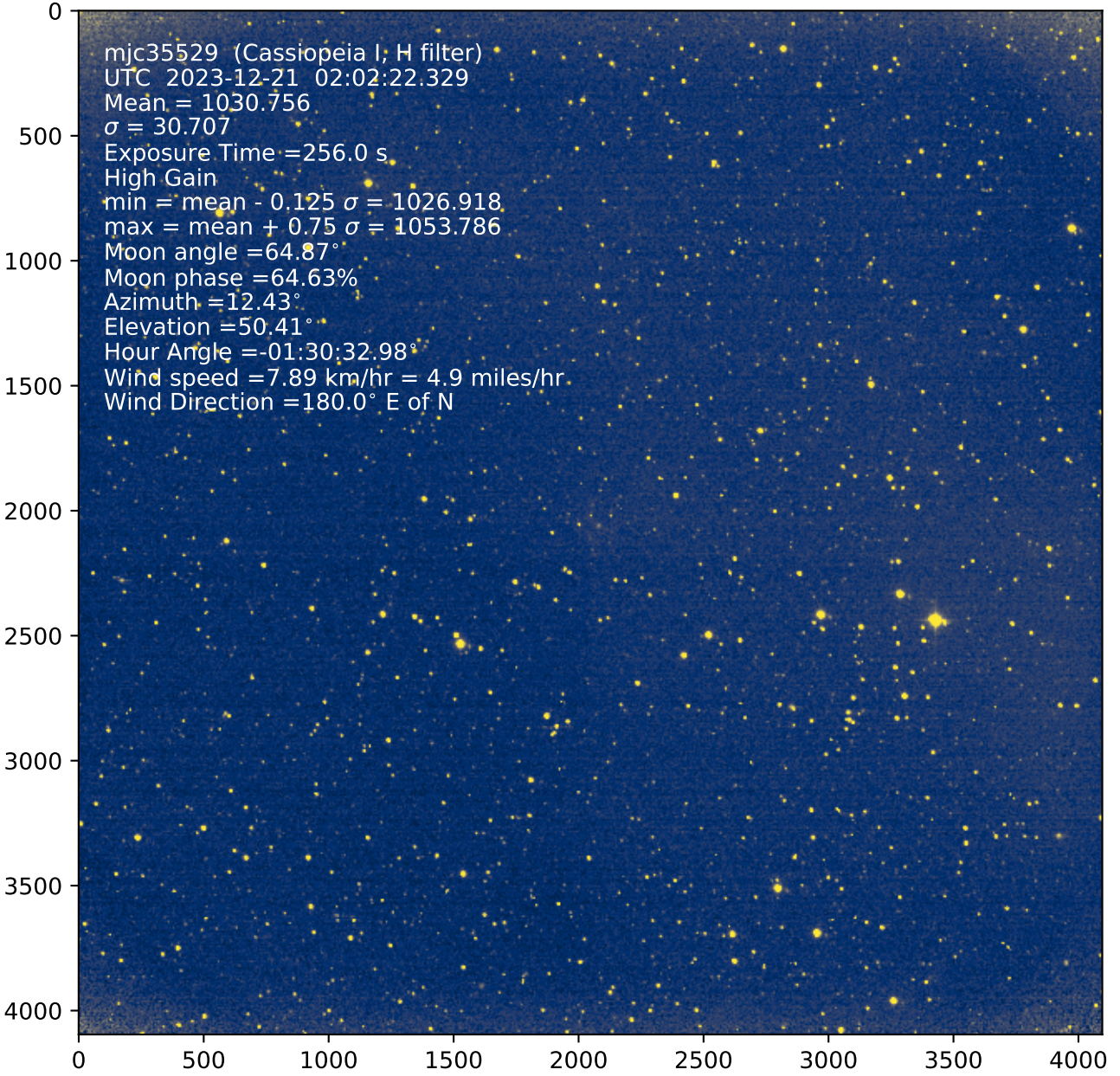
2500
3000
3500
4000


mjc35529 (Cassiopeia I; H filter)
UTC 2023-12-21 02:02:22.329
Mean = 1030.756
σ = 30.707
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1026.918
max = mean + 0.75 σ = 1053.786
Moon angle =64.87°
Moon phase =64.63%
Azimuth =12.43°
Elevation =50.41°
Hour Angle =-01:30:32.98°
Wind speed =7.89 km/hr = 4.9 miles/hr
Wind Direction =180.0° E of N
0
500
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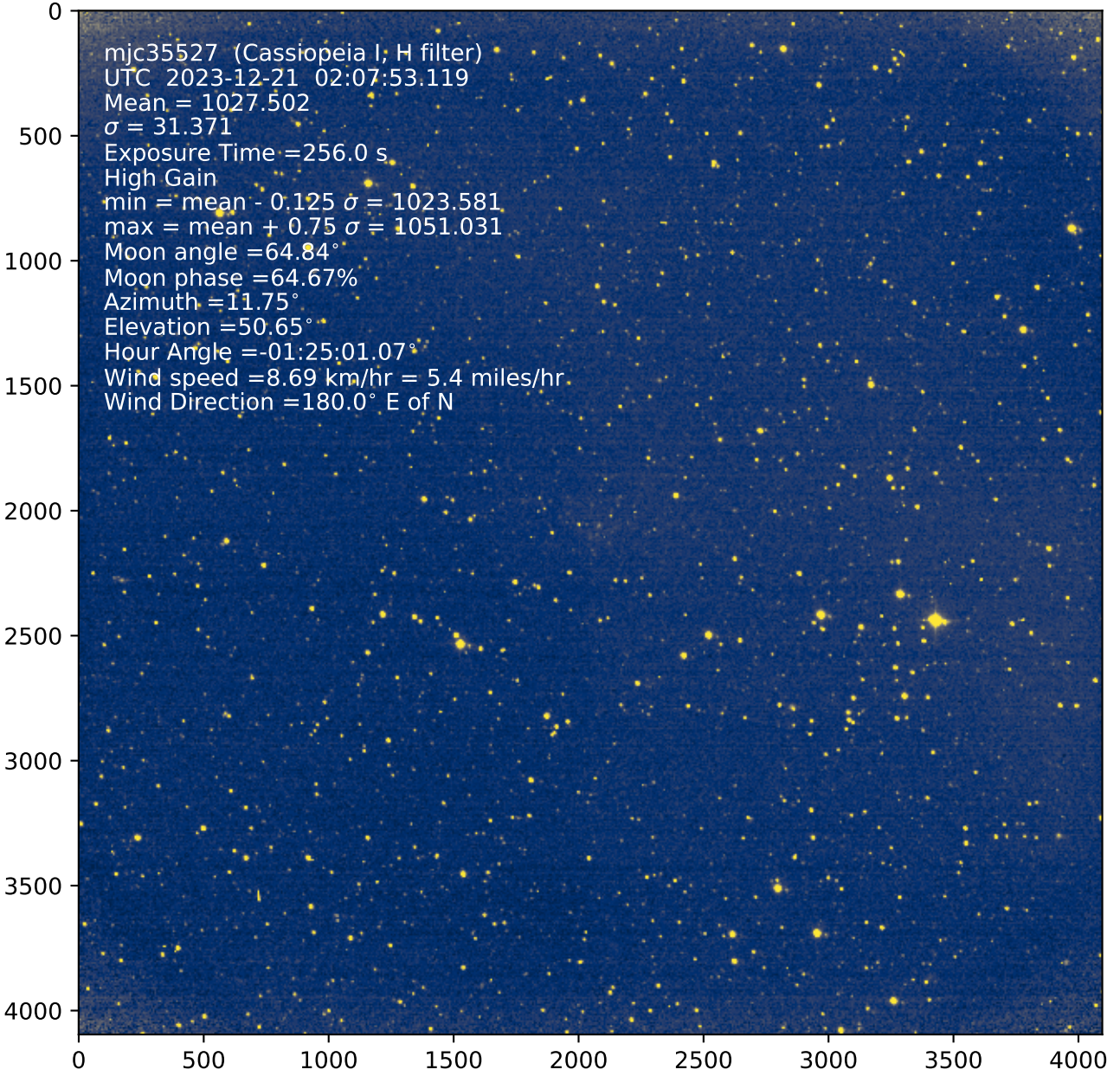
2500
3000
3500
4000


mjc35527 (Cassiopeia I; H filter)
UTC 2023-12-21 02:07:53.119
Mean = 1027.502
σ = 31.371
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1023.581
max = mean + 0.75 σ = 1051.031
Moon angle =64.84°
Moon phase =64.67%
Azimuth =11.75°
Elevation =50.65°
Hour Angle =-01:25:01.07°
Wind speed =8.69 km/hr = 5.4 miles/hr
Wind Direction =180.0° E of N
0
500
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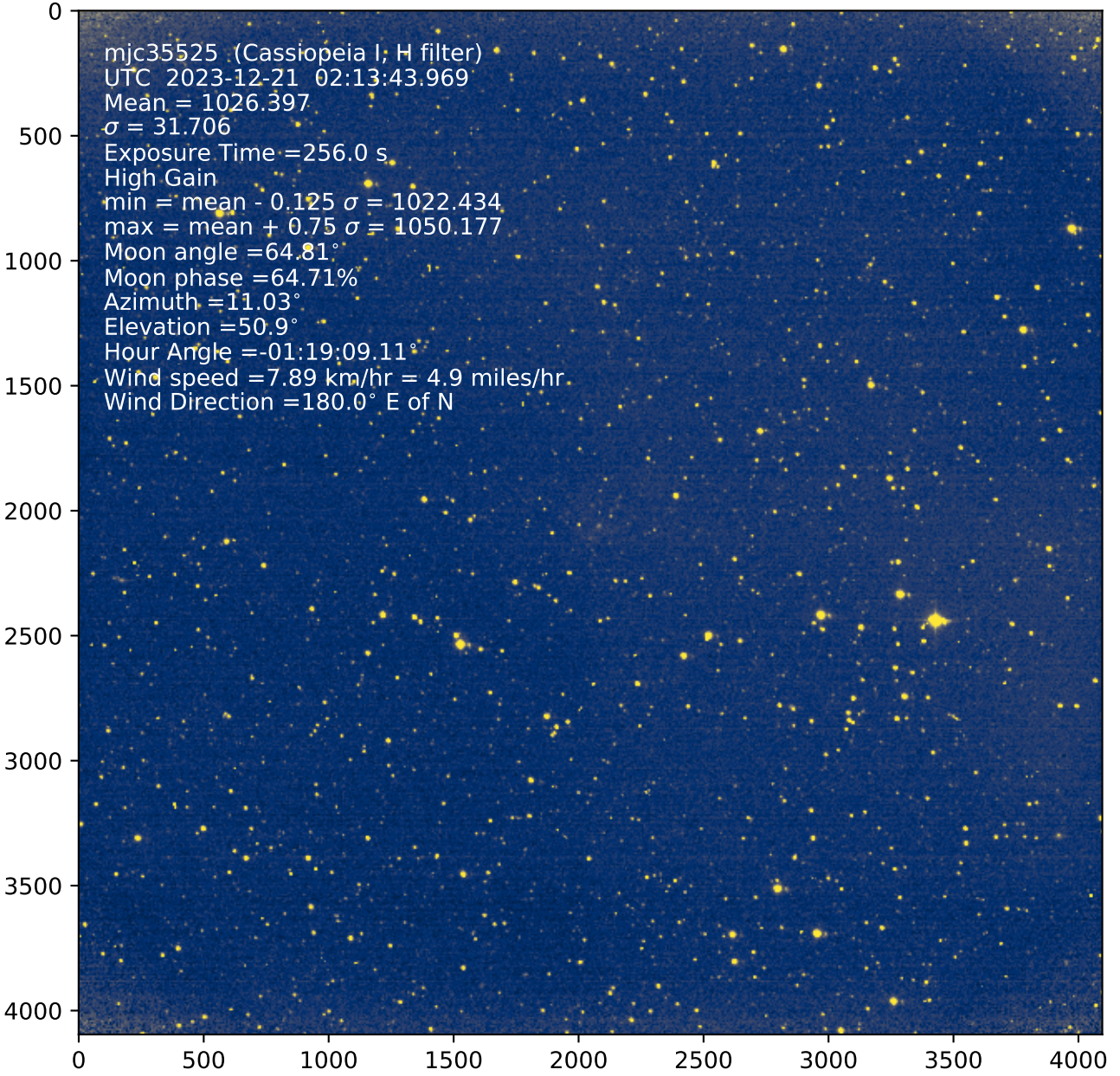
3000
3500
4000


mjc35525 (Cassiopeia I; H filter)
UTC 2023-12-21 02:13:43.969
Mean = 1026.397
σ = 31.706
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1022.434
max = mean + 0.75 σ = 1050.177
Moon angle =64.81°
Moon phase =64.71%
Azimuth =11.03°
Elevation =50.9°
Hour Angle =-01:19:09.11°
Wind speed =7.89 km/hr = 4.9 miles/hr
Wind Direction =180.0° E of N
0
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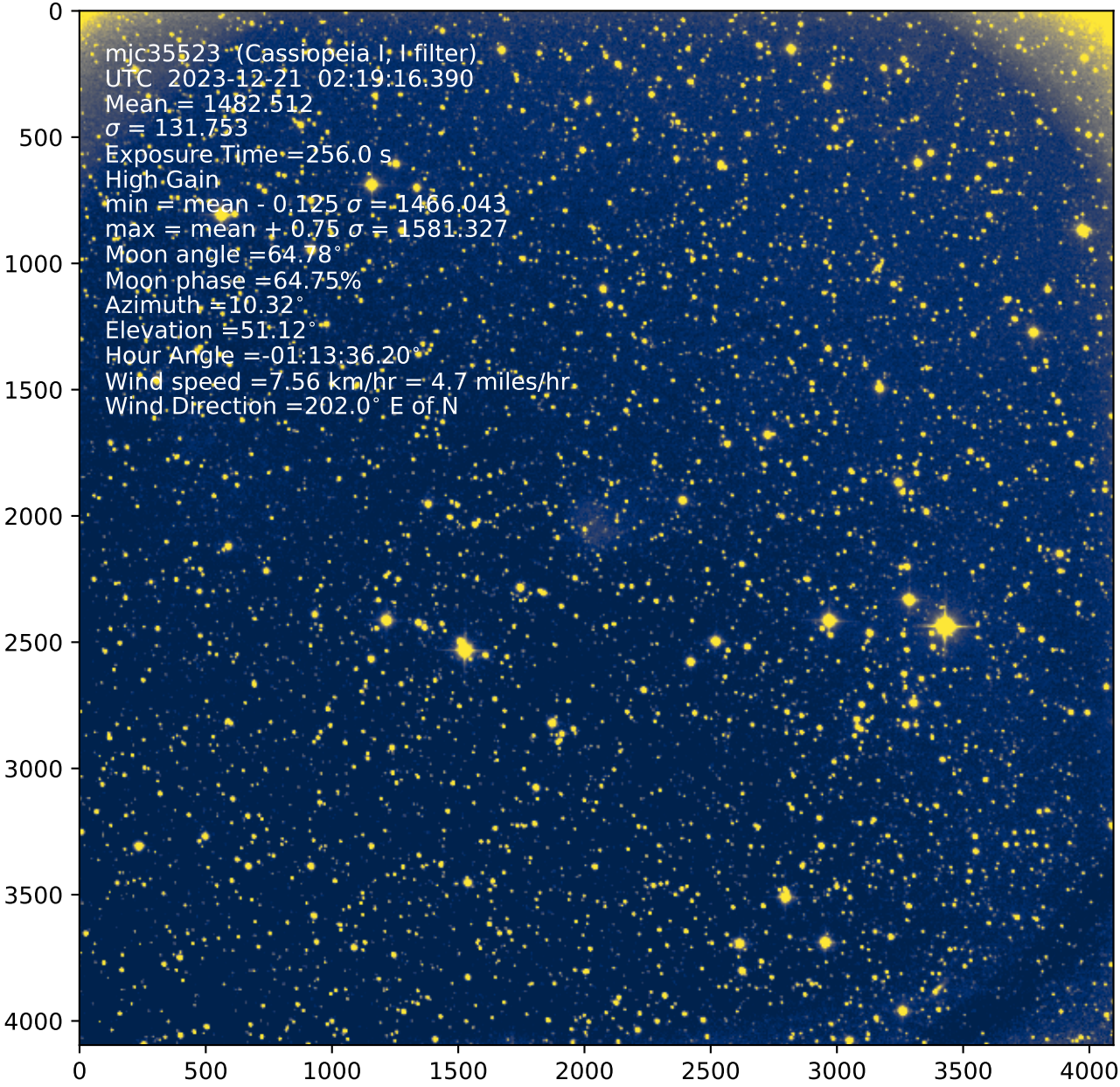
2500
3000
3500
4000


mjc35523 (Cassiopeia I, I filter)
UTC 2023-12-21 02:19:16.390
Mean = 1482.512
σ = 131.753
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1466.043
max = mean + 0.75 σ = 1581.327
Moon angle =64.78°
Moon phase =64.75%
Azimuth =10.32°
Elevation =51.12°
Hour Angle =-01:13:36.20°
Wind speed =7.56 km/hr = 4.7 miles/hr
Wind Direction =202.0° E of N
0
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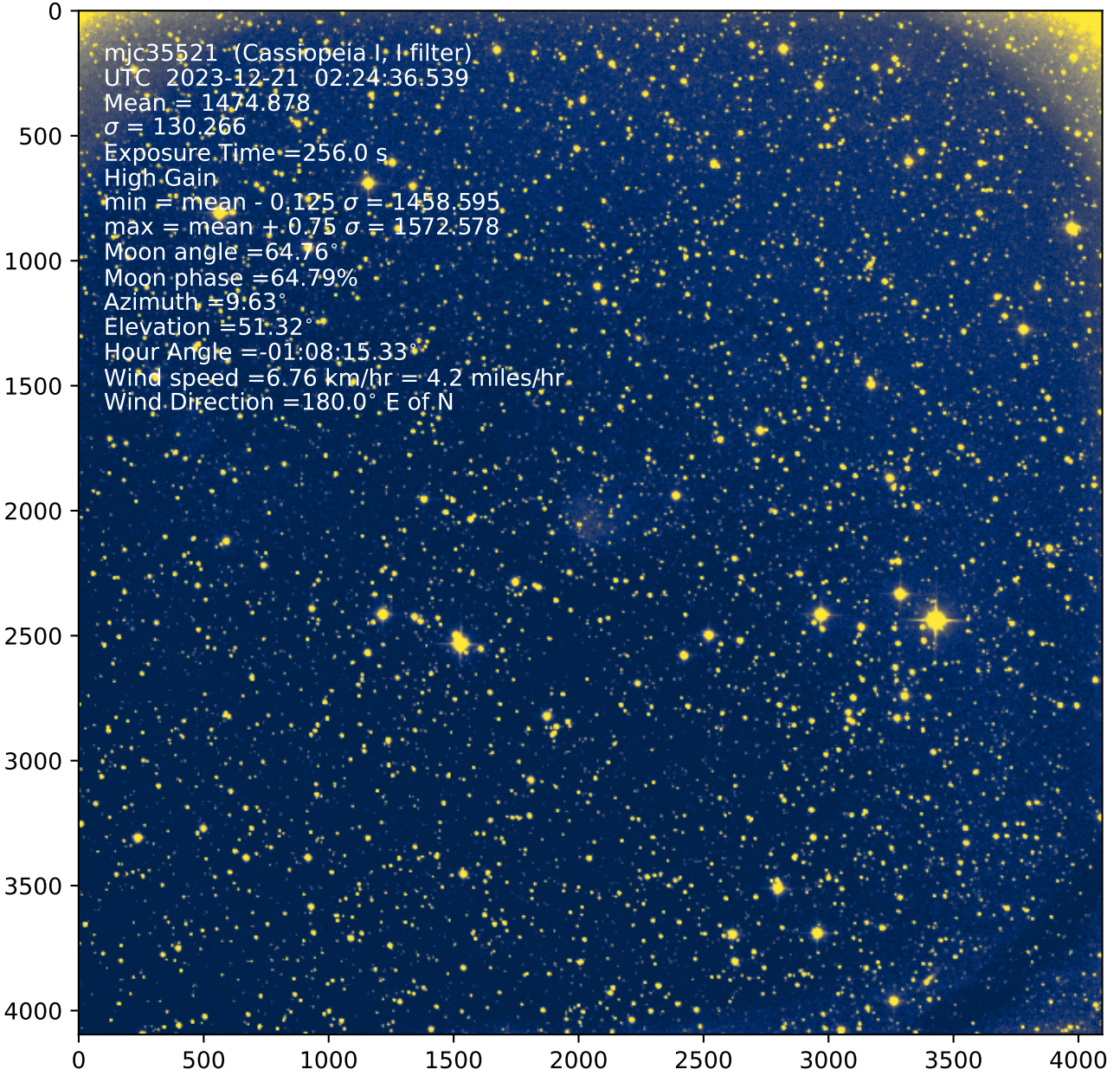
3500
4000


mjc35521 (Cassiopeia I, I filter)
UTC 2023-12-21 02:24:36.539
Mean = 1474.878
σ = 130.266
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1458.595
max = mean + 0.75 σ = 1572.578
Moon angle =64.76°
Moon phase =64.79%
Azimuth =9.63°
Elevation =51.32°
Hour Angle =-01:08:15.33°
Wind speed =6.76 km/hr = 4.2 miles/hr
Wind Direction =180.0° E of N
0
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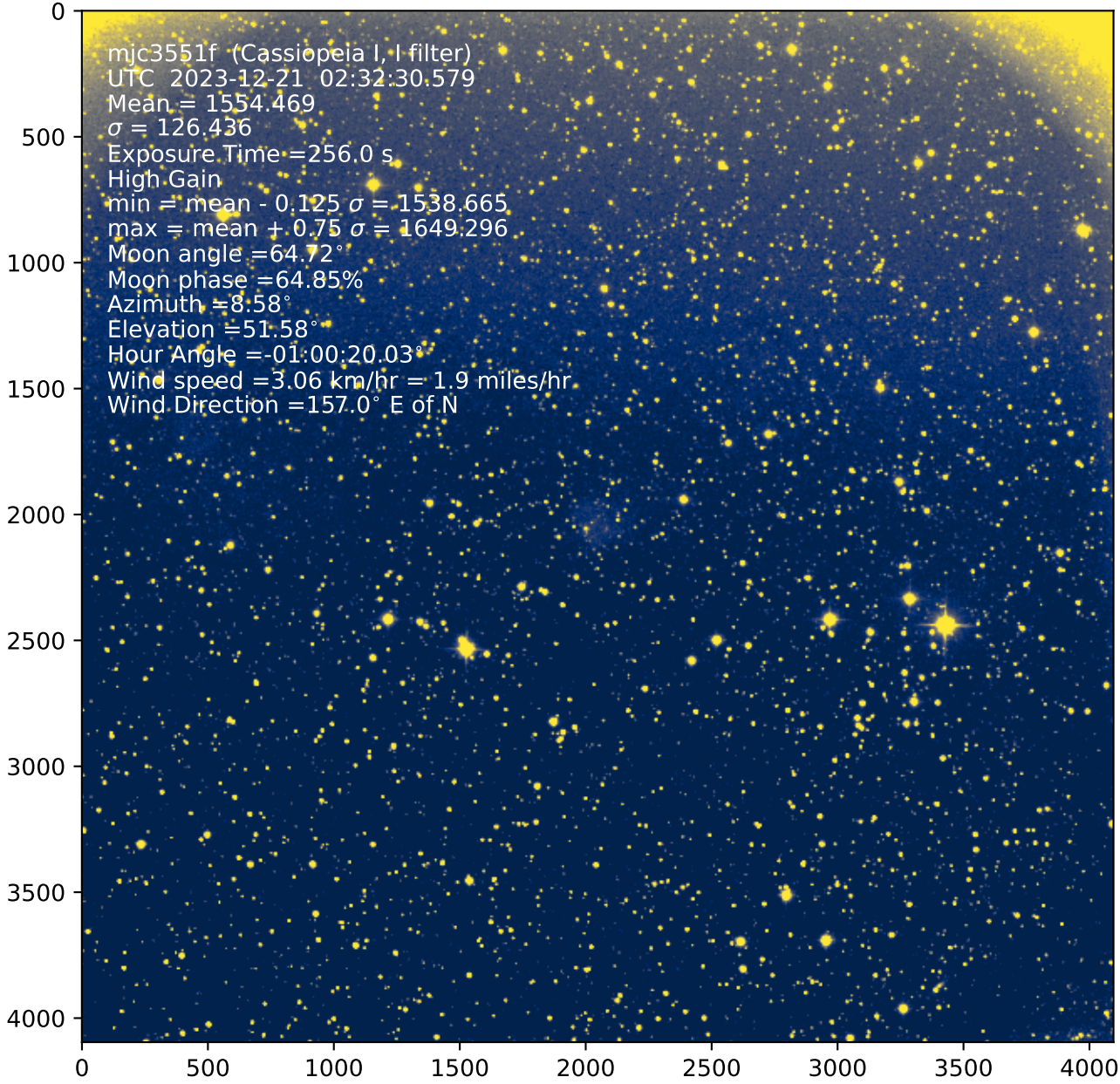
mjc3551f (Cassiopeia I, I filter)
UTC 2023-12-21 02:32:30.579
Mean = 1554.469
σ = 126.436
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1538.665
max = mean + 0.75 σ = 1649.296
Moon angle =64.72°
Moon phase =64.85%
Azimuth =8.58°
Elevation =51.58°
Hour Angle =-01:00:20.03°
Wind speed =3.06 km/hr = 1.9 miles/hr
Wind Direction =157.0° E of N
0
500
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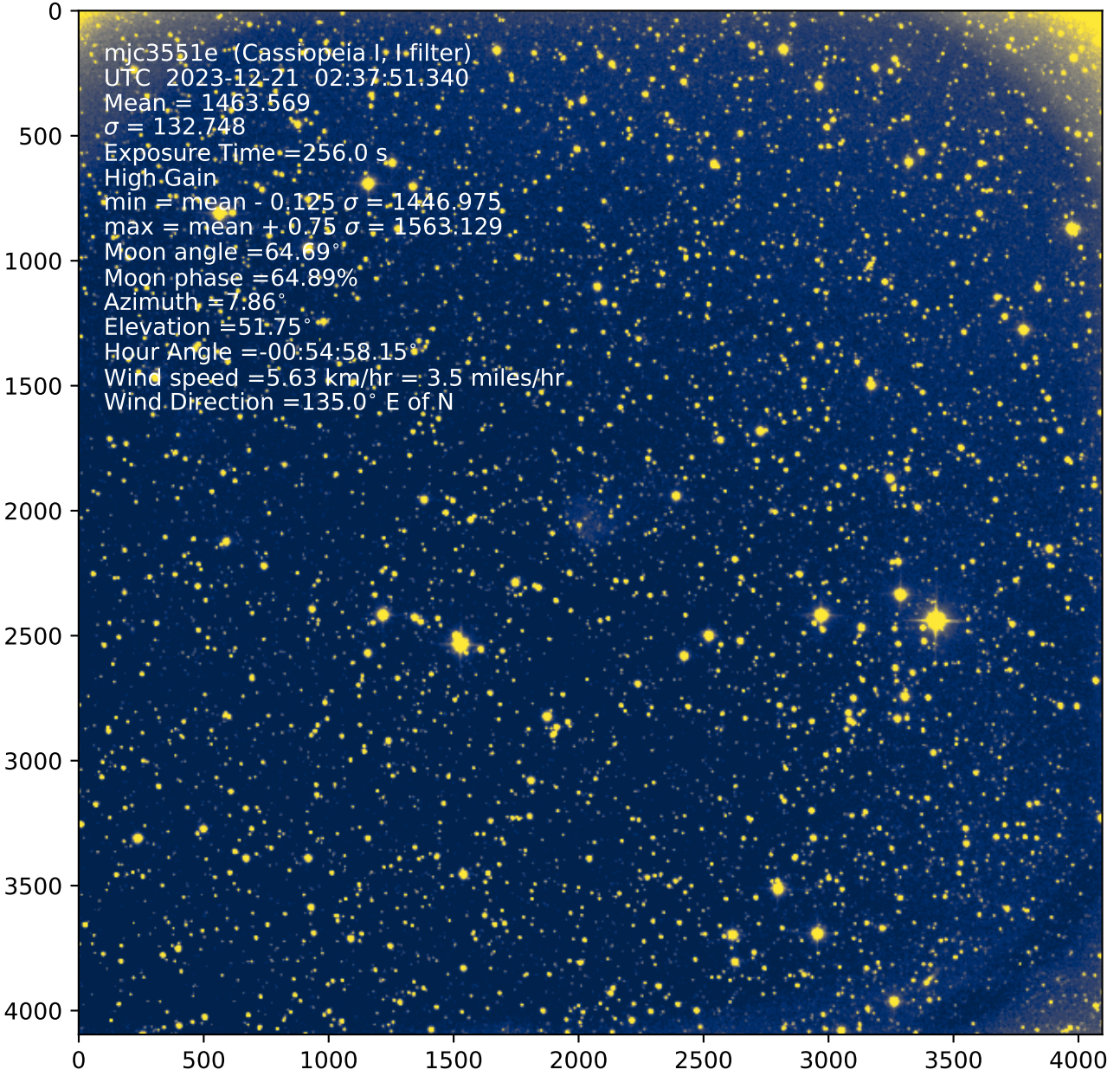
mjc3551e (Cassiopeia I, I filter)
UTC 2023-12-21 02:37:51.340
Mean = 1463.569
σ = 132.748
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1446.975
max = mean + 0.75 σ = 1563.129
Moon angle =64.69°
Moon phase =64.89%
Azimuth =7.86°
Elevation =51.75°
Hour Angle =-00:54:58.15°
Wind speed =5.63 km/hr = 3.5 miles/hr
Wind Direction =135.0° E of N
0
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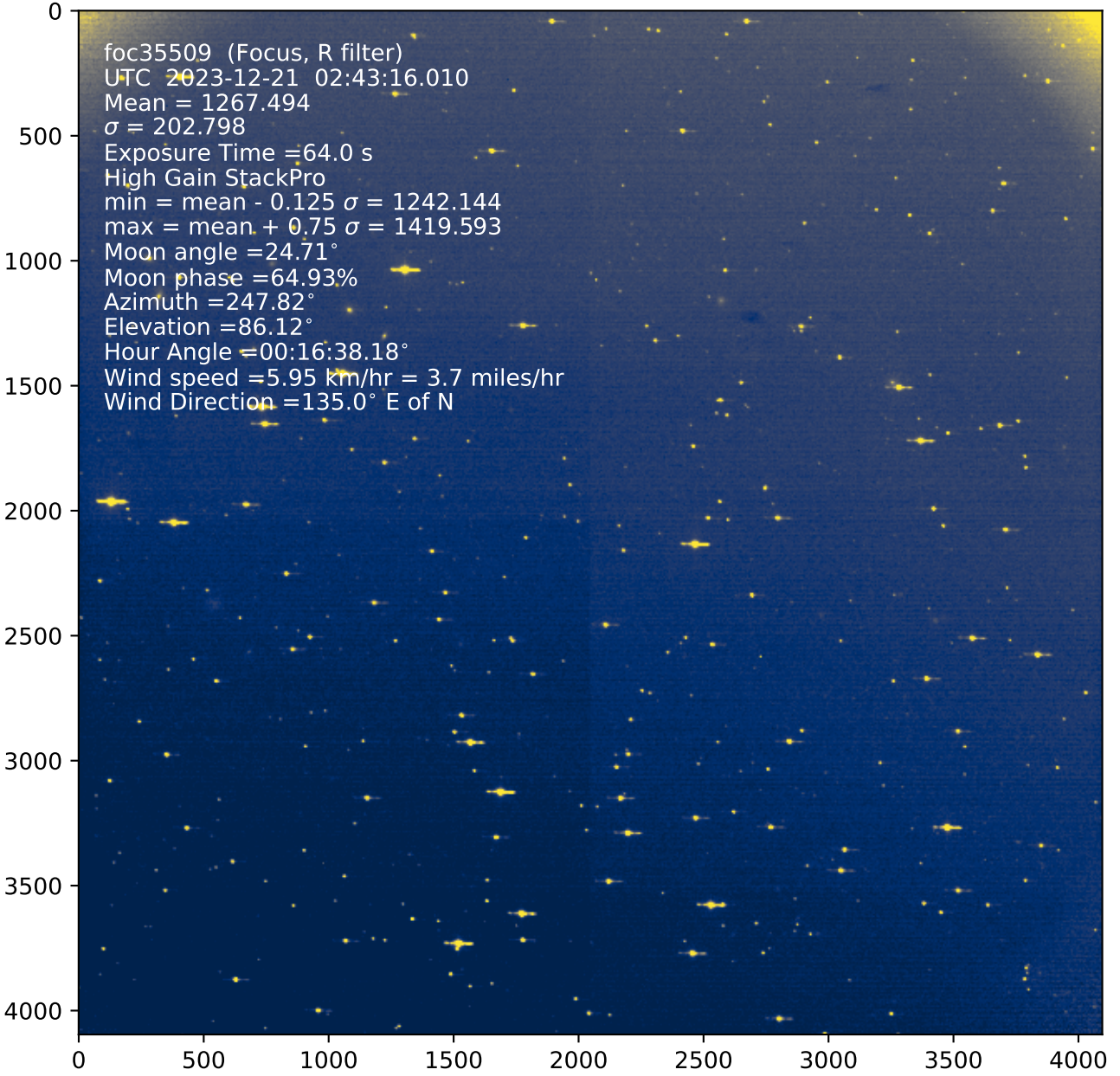
3500
4000


foc35509 (Focus, R filter)
UTC 2023-12-21 02:43:16.010
Mean = 1267.494
σ = 202.798
Exposure Time =64.0 s
High Gain StackPro
min = mean - 0.125 σ = 1242.144
max = mean + 0.75 σ = 1419.593
Moon angle =24.71°
Moon phase =64.93%
Azimuth =247.82°
Elevation =86.12°
Hour Angle =00:16:38.18°
Wind speed =5.95 km/hr = 3.7 miles/hr
Wind Direction =135.0° E of N
0
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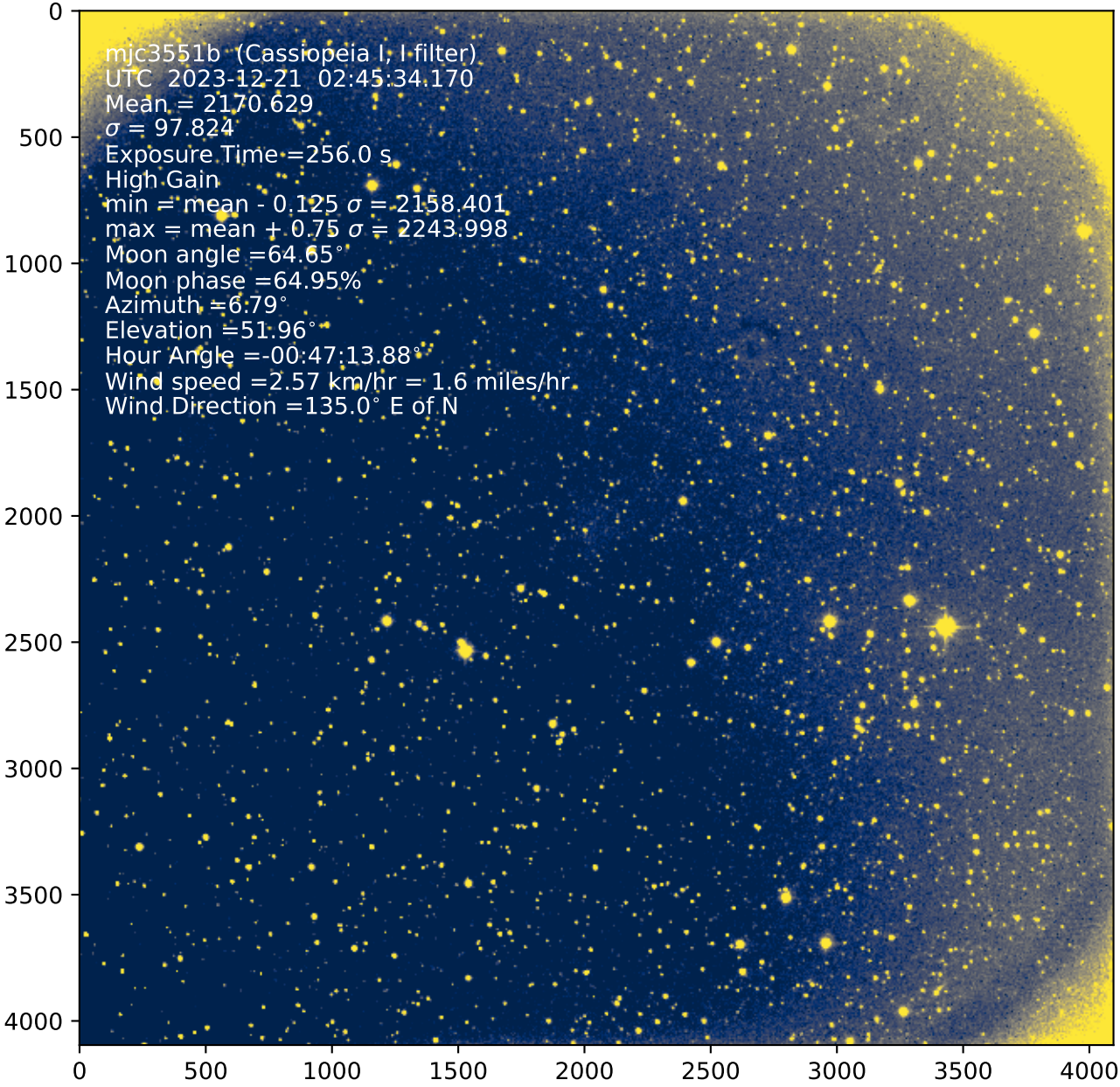
mjc3551b (Cassiopeia I, I-filter)
UTC 2023-12-21 02:45:34.170
Mean = 2170.629
σ = 97.824
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 2158.401
max = mean + 0.75 σ = 2243.998
Moon angle =64.65°
Moon phase =64.95%
Azimuth =6.79°
Elevation =51.96°
Hour Angle =-00:47:13.88°
Wind speed =2.57 km/hr = 1.6 miles/hr
Wind Direction =135.0° E of N
0
500
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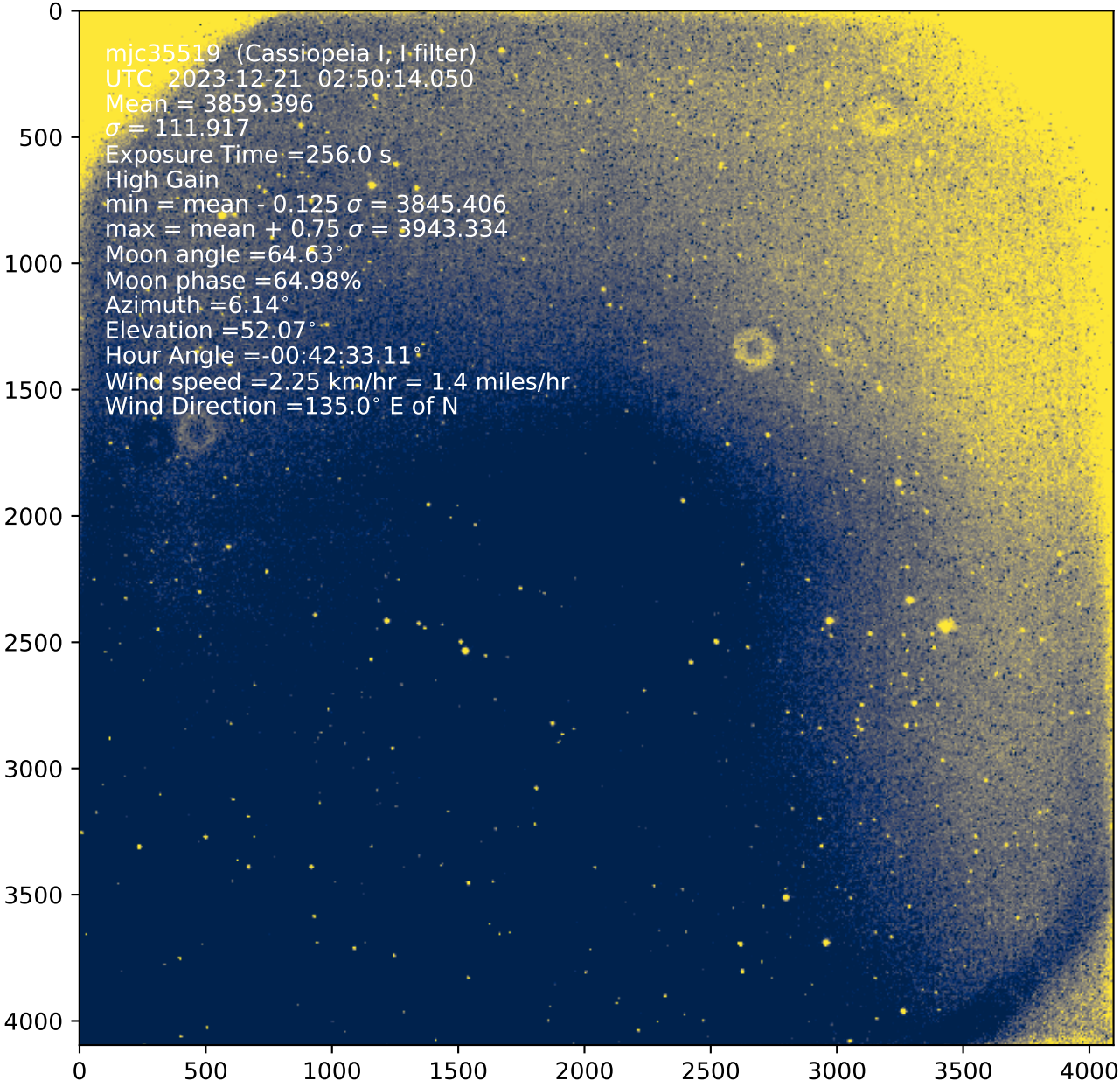
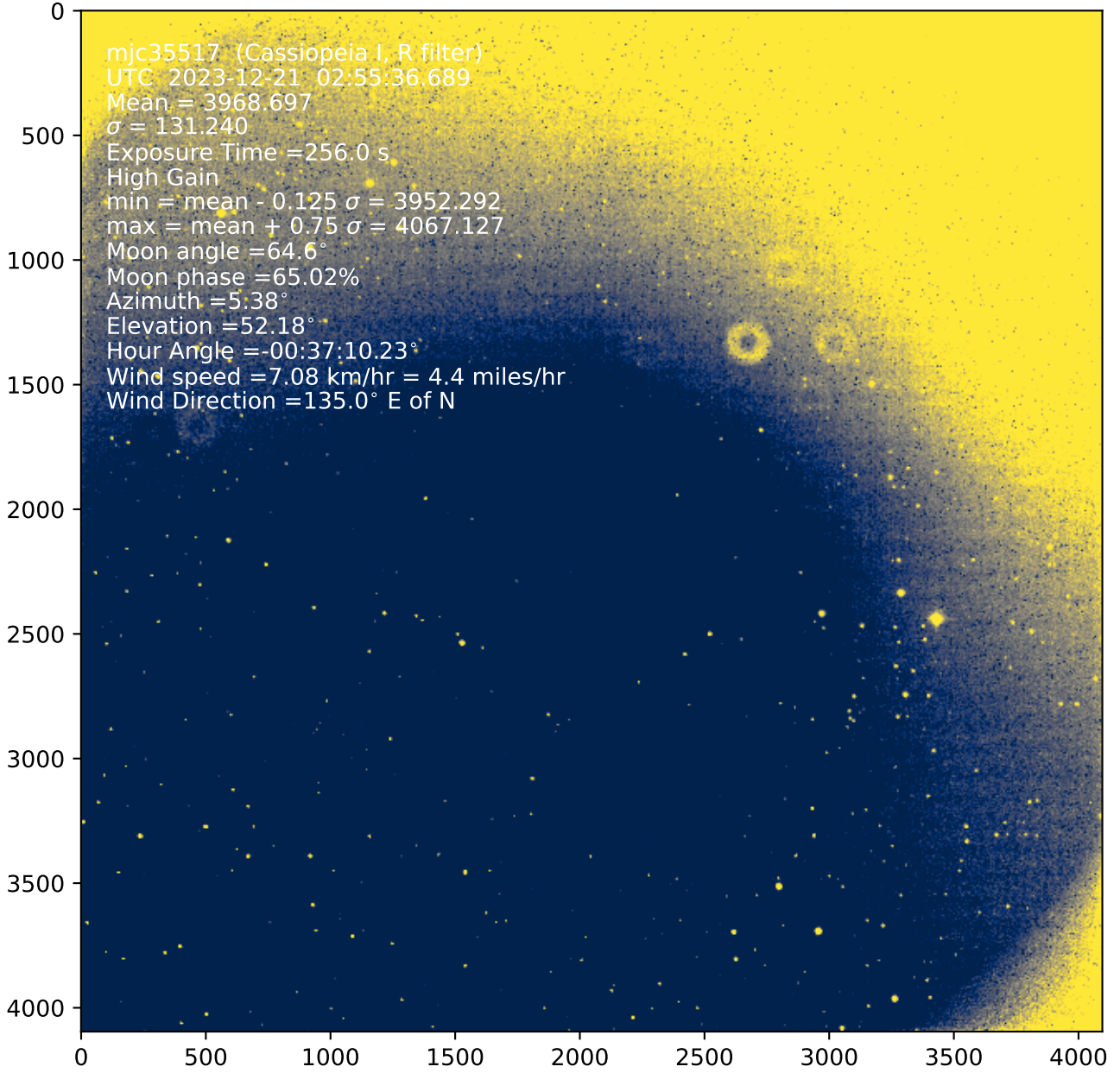
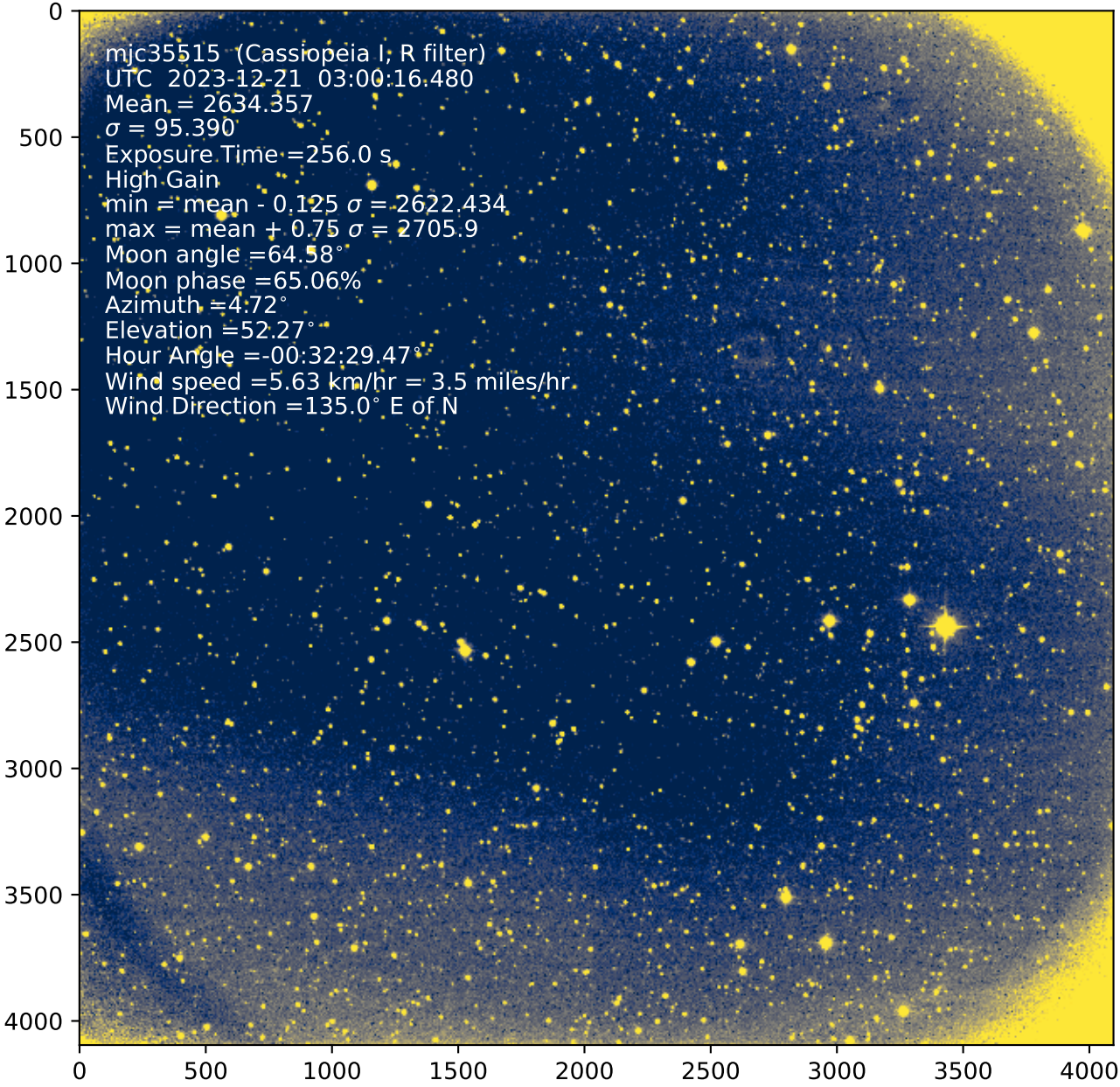
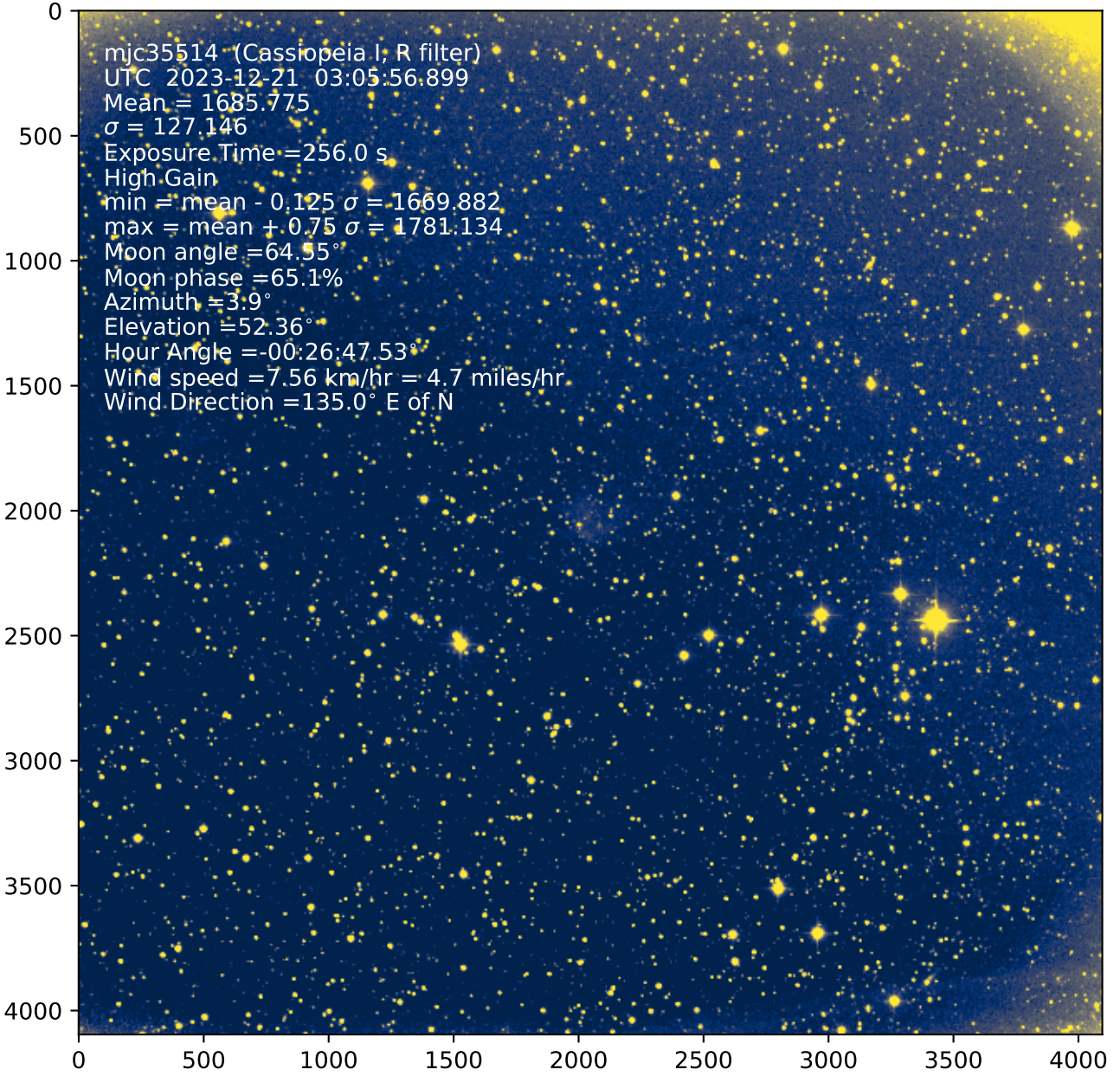
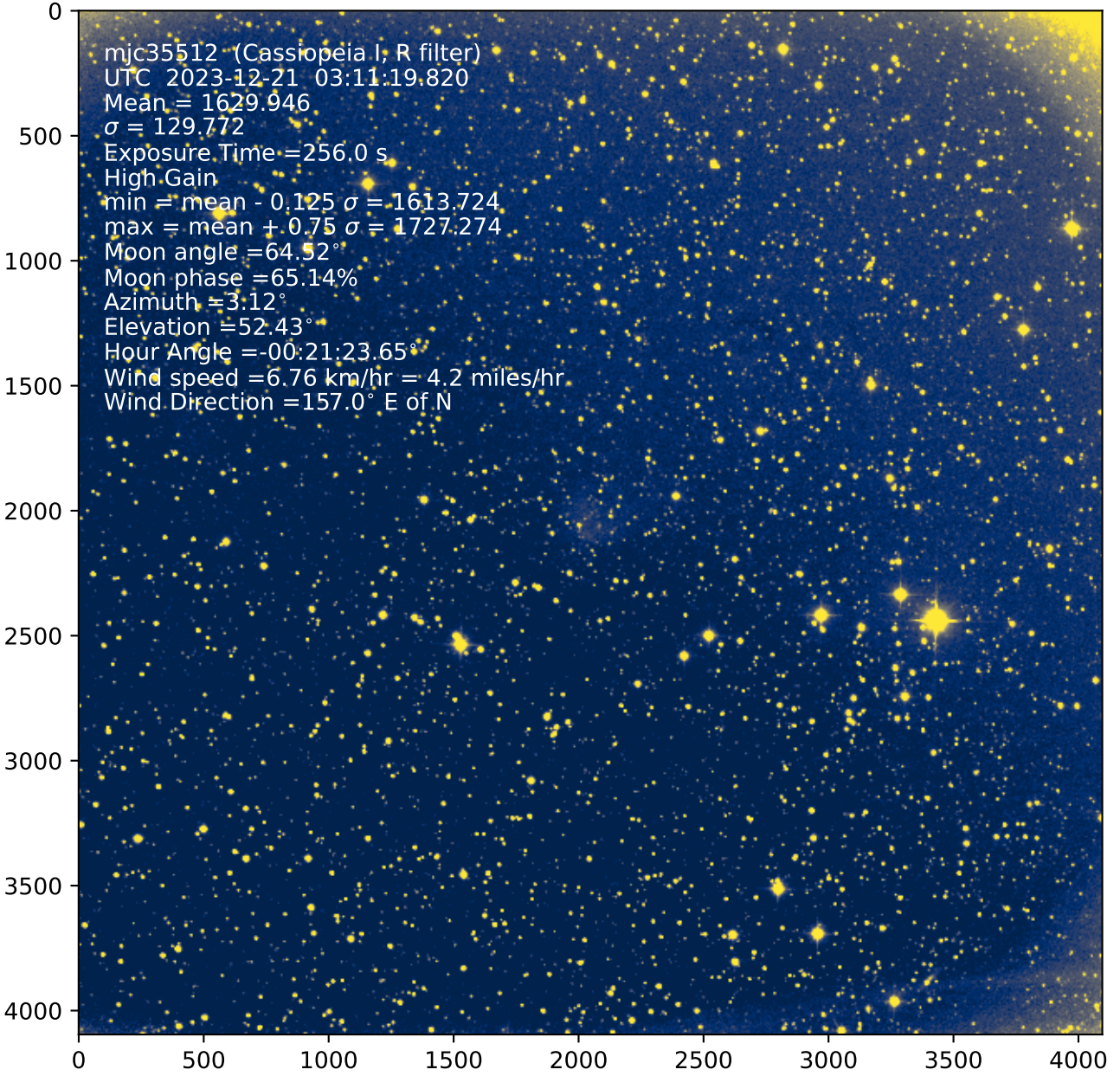
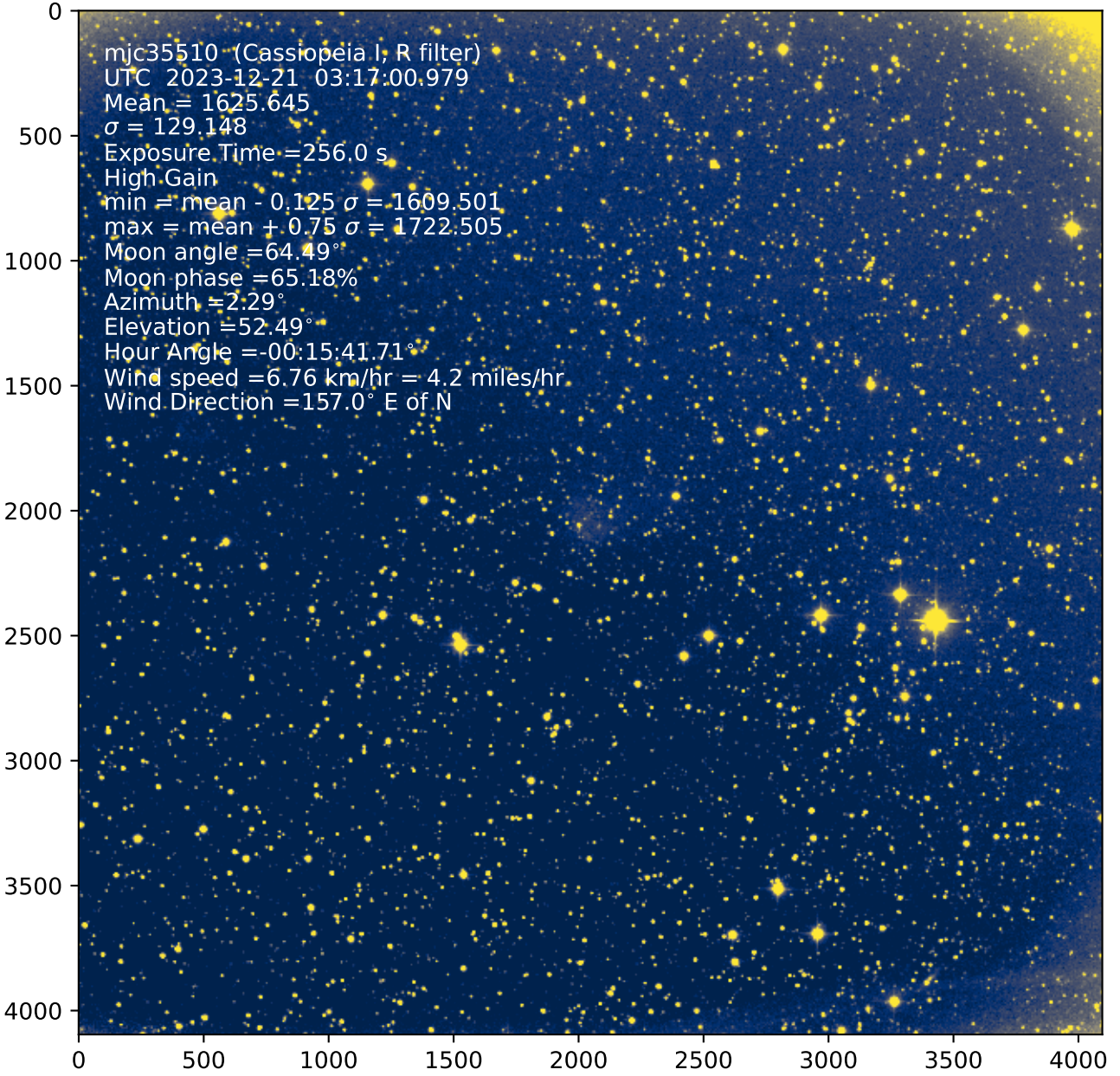

mjc35519 (Cassiopeia I, I filter)
UTC 2023-12-21 02:50:14.050
Mean = 3859.396
σ = 111.917
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 3845.406
max = mean + 0.75 σ = 3943.334
Moon angle =64.63°
Moon phase =64.98%
Azimuth =6.14°
Elevation =52.07°
Hour Angle =-00:42:33.11°
Wind speed =2.25 km/hr = 1.4 miles/hr
Wind Direction =135.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mjc35517 (Cassiopeia I, R filter)
UTC 2023-12-21 02:55:36.689
Mean = 3968.697
σ = 131.240
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 3952.292
max = mean + 0.75 σ = 4067.127
Moon angle =64.6°
Moon phase =65.02%
Azimuth =5:38°
Elevation =52.18°
Hour Angle =-00:37:10.23°
Wind speed =7.08 km/hr = 4.4 miles/hr
Wind Direction =135.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mjc35515 (Cassiopeia I; R filter)
UTC 2023-12-21 03:00:16.480
Mean = 2634.357
σ = 95.390
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 2622.434
max = mean + 0.75 σ = 2705.9
Moon angle =64.58°
Moon phase =65.06%
Azimuth =4.72°
Elevation =52.27°
Hour Angle =-00:32:29.47°
Wind speed =5.63 km/hr = 3.5 miles/hr
Wind Direction =135.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mjc35514 (Cassiopeia I, R filter)
UTC 2023-12-21 03:05:56.899
Mean = 1685.775
σ = 127.146
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1669.882
max = mean + 0.75 σ = 1781.134
Moon angle =64.55°
Moon phase =65.1%
Azimuth =3.9°
Elevation =52.36°
Hour Angle =-00:26:47.53°
Wind speed =7.56 km/hr = 4.7 miles/hr
Wind Direction =135.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mjc35512 (Cassiopeia I, R filter)
UTC 2023-12-21 03:11:19.820
Mean = 1629.946
σ = 129.772
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1613.724
max = mean + 0.75 σ = 1727.274
Moon angle =64.52°
Moon phase =65.14%
Azimuth =3.12°
Elevation =52.43°
Hour Angle =-00:21:23.65°
Wind speed =6.76 km/hr = 4.2 miles/hr
Wind Direction =157.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mjc35510 (Cassiopeia I; R filter)
UTC 2023-12-21 03:17:00.979
Mean = 1625.645
σ = 129.148
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1609.501
max = mean + 0.75 σ = 1722.505
Moon angle =64.49°
Moon phase =65.18%
Azimuth =2.29°
Elevation =52.49°
Hour Angle =-00:15:41.71°
Wind speed =6.76 km/hr = 4.2 miles/hr
Wind Direction =157.0° E of N
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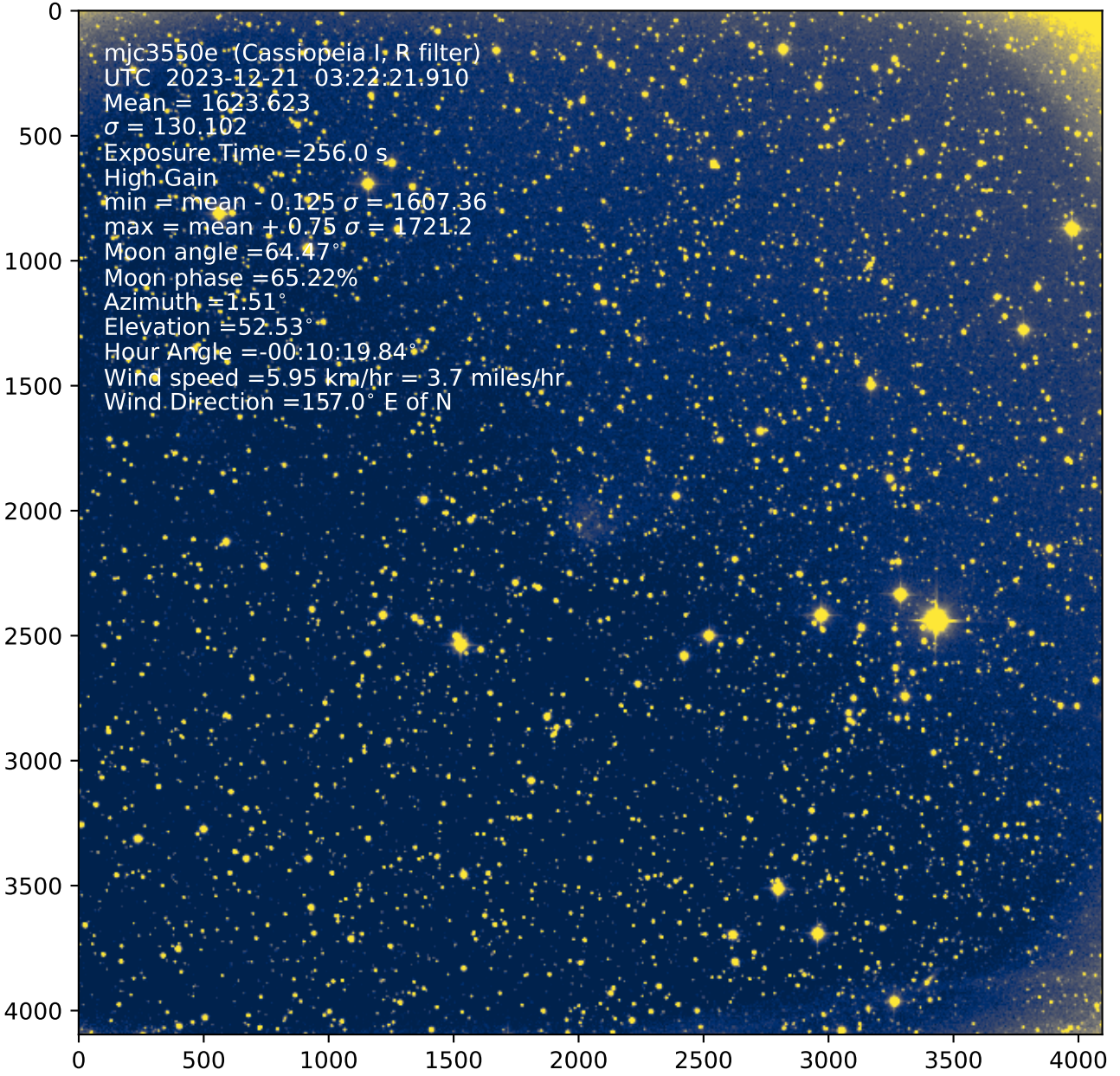
3000
3500
4000


mjc3550e (Cassiopeia I, R filter)
UTC 2023-12-21 03:22:21.910
Mean = 1623.623
σ = 130.102
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1607.36
max = mean + 0.75 σ = 1721.2
Moon angle =64.47°
Moon phase =65.22%
Azimuth =1.51°
Elevation =52.53°
Hour Angle =-00:10:19.84°
Wind speed =5.95 km/hr = 3.7 miles/hr
Wind Direction =157.0° E of N
0
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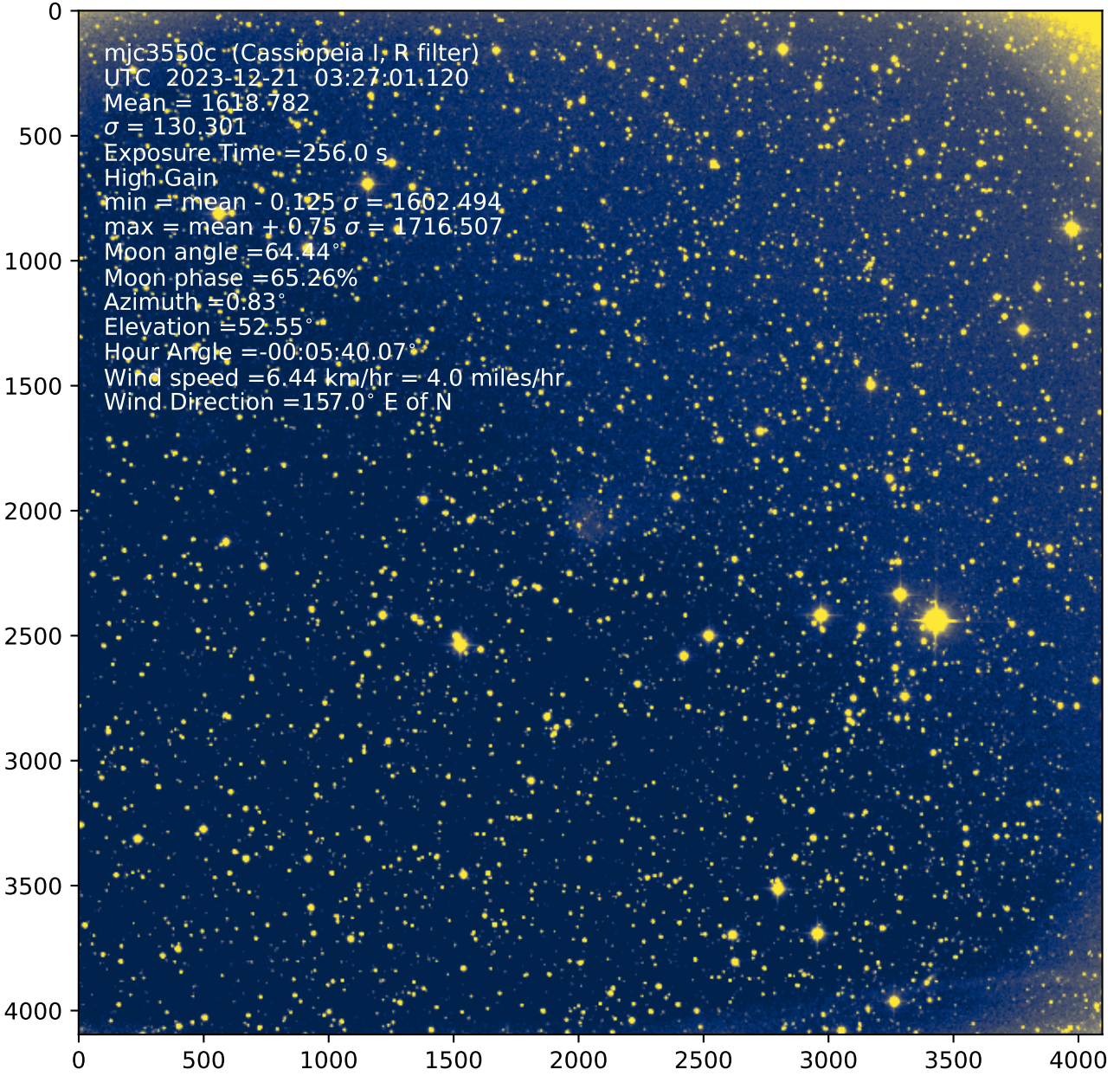
3000
3500
4000


mjc3550c (Cassiopeia I, R filter)
UTC 2023-12-21 03:27:01.120
Mean = 1618.782
σ = 130.301
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1602.494
max = mean + 0.75 σ = 1716.507
Moon angle =64.44°
Moon phase =65.26%
Azimuth =0.83°
Elevation =52.55°
Hour Angle =-00:05:40.07°
Wind speed =6.44 km/hr = 4.0 miles/hr
Wind Direction =157.0° E of N
0
500
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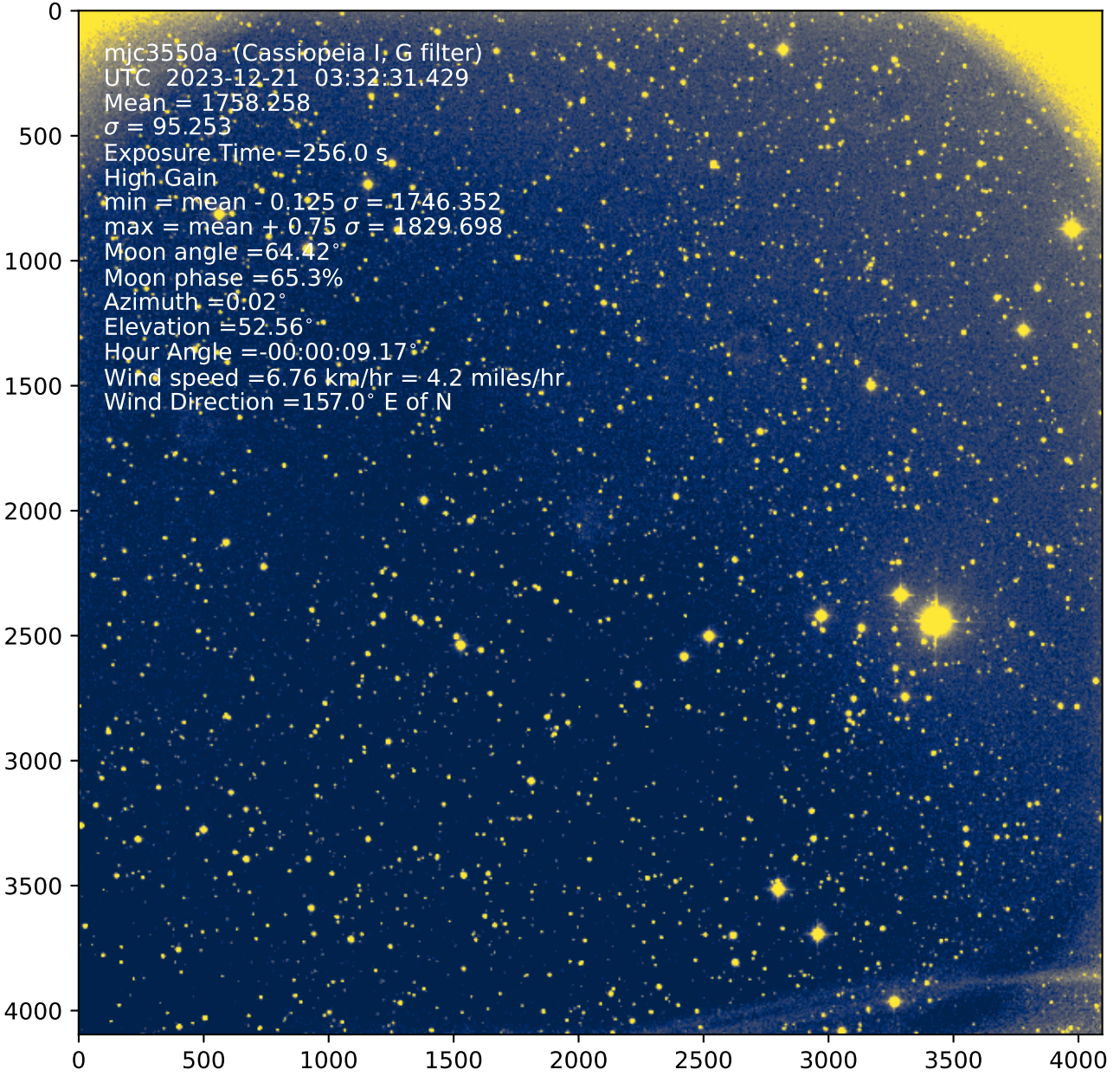
2500
3000
3500
4000


mjc3550a (Cassiopeia I, G filter)
UTC 2023-12-21 03:32:31.429
Mean = 1758.258
σ = 95.253
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1746.352
max = mean + 0.75 σ = 1829.698
Moon angle =64.42°
Moon phase =65.3%
Azimuth =0.02°
Elevation =52.56°
Hour Angle =-00:00:09.17°
Wind speed =6.76 km/hr = 4.2 miles/hr
Wind Direction =157.0° E of N
0
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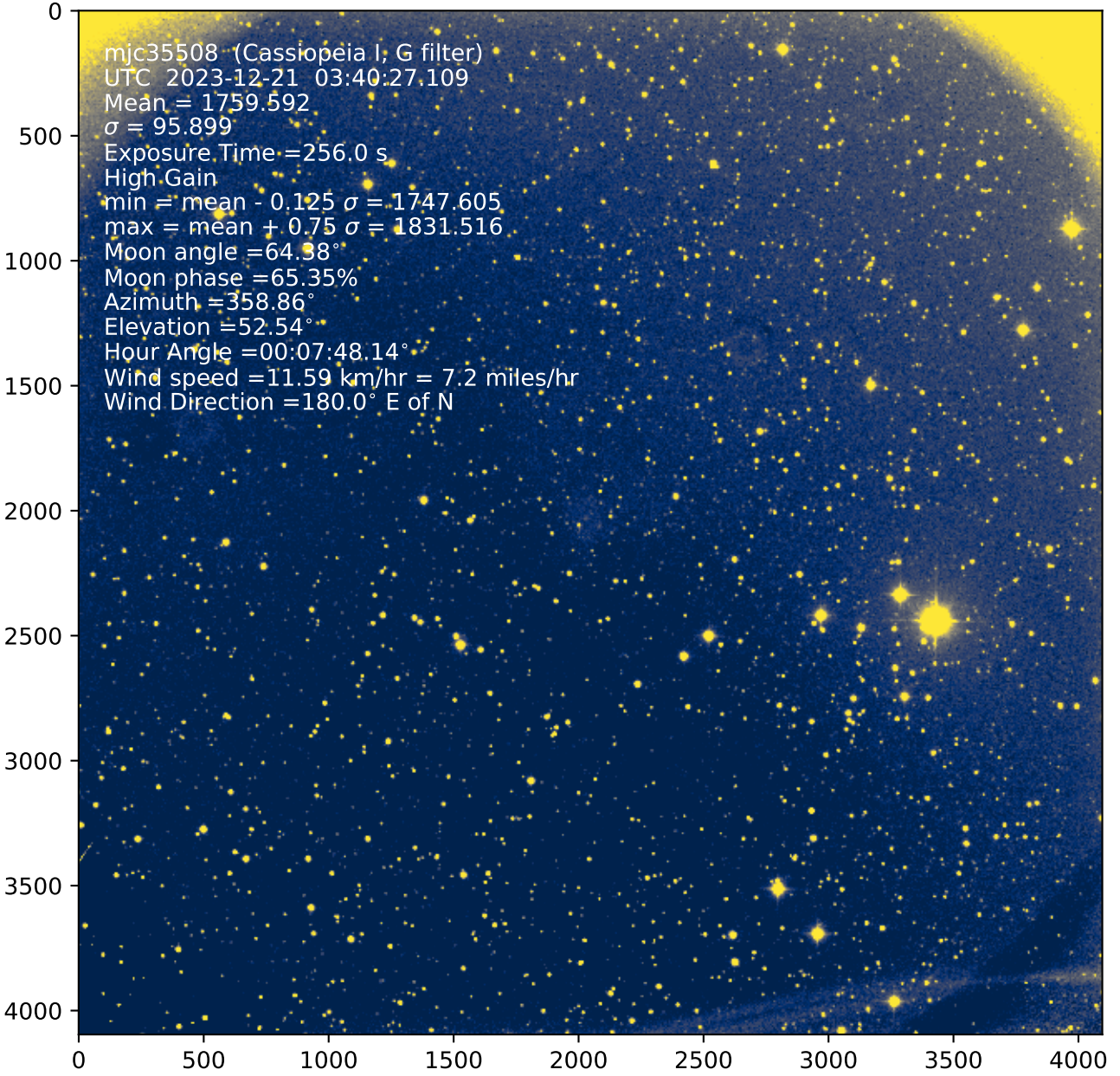
2000
2500
3000
3500
4000


mjc35508 (Cassiopeia I, G filter)
UTC 2023-12-21 03:40:27.109
Mean = 1759.592
σ = 95.899
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1747.605
max = mean + 0.75 σ = 1831.516
Moon angle =64.38°
Moon phase =65.35%
Azimuth =358.86°
Elevation =52.54°
Hour Angle =00:07:48.14°
Wind speed =11.59 km/hr = 7.2 miles/hr
Wind Direction =180.0° E of N
0
500
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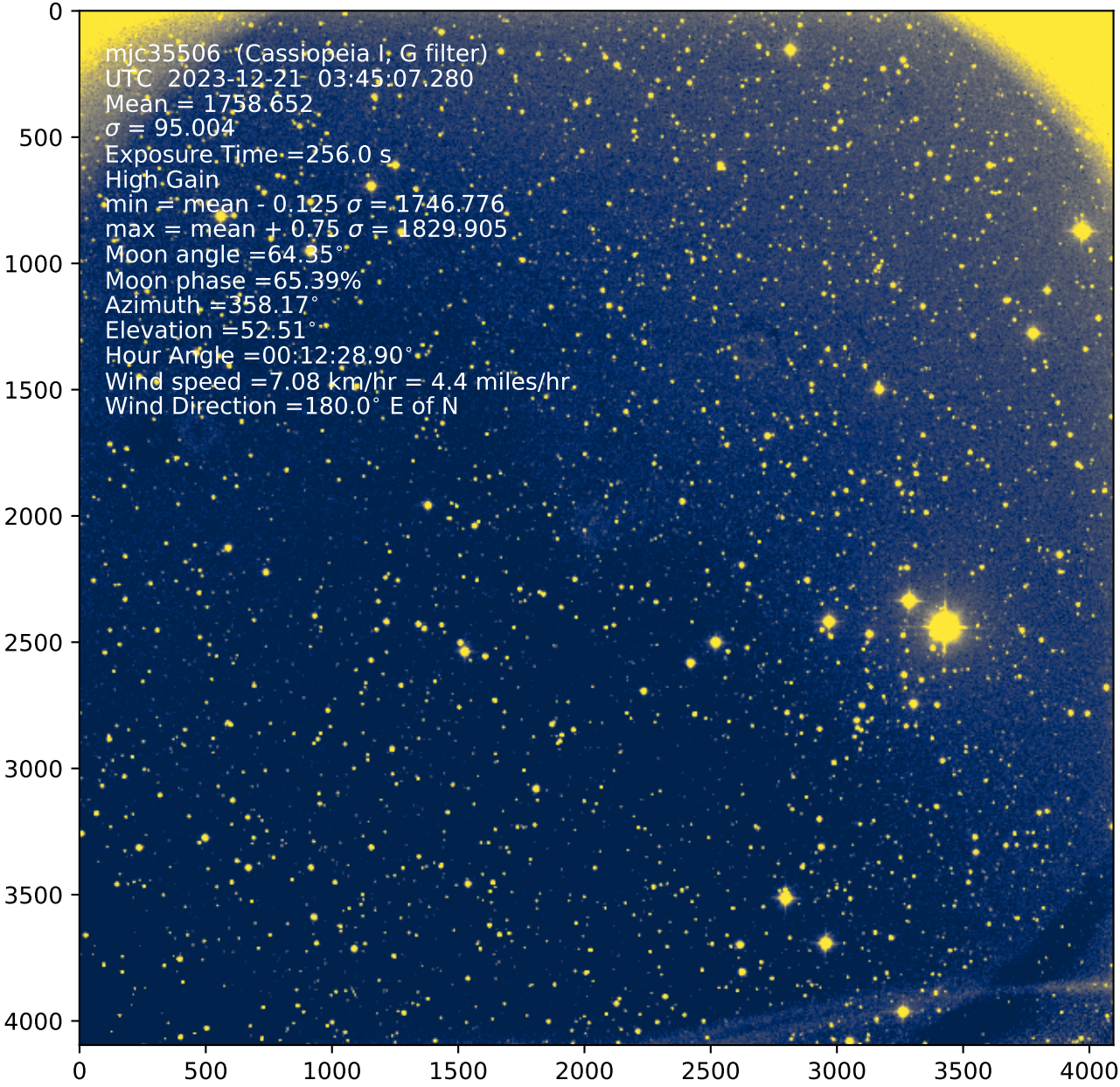
3000
3500
4000


mjc35506 (Cassiopeia I, G filter)
UTC 2023-12-21 03:45:07.280
Mean = 1758.652
σ = 95.004
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1746.776
max = mean + 0.75 σ = 1829.905
Moon angle =64.35°
Moon phase =65.39%
Azimuth =358.17°
Elevation =52.51°
Hour Angle =00:12:28.90°
Wind speed =7.08 km/hr = 4.4 miles/hr
Wind Direction =180.0° E of N
0
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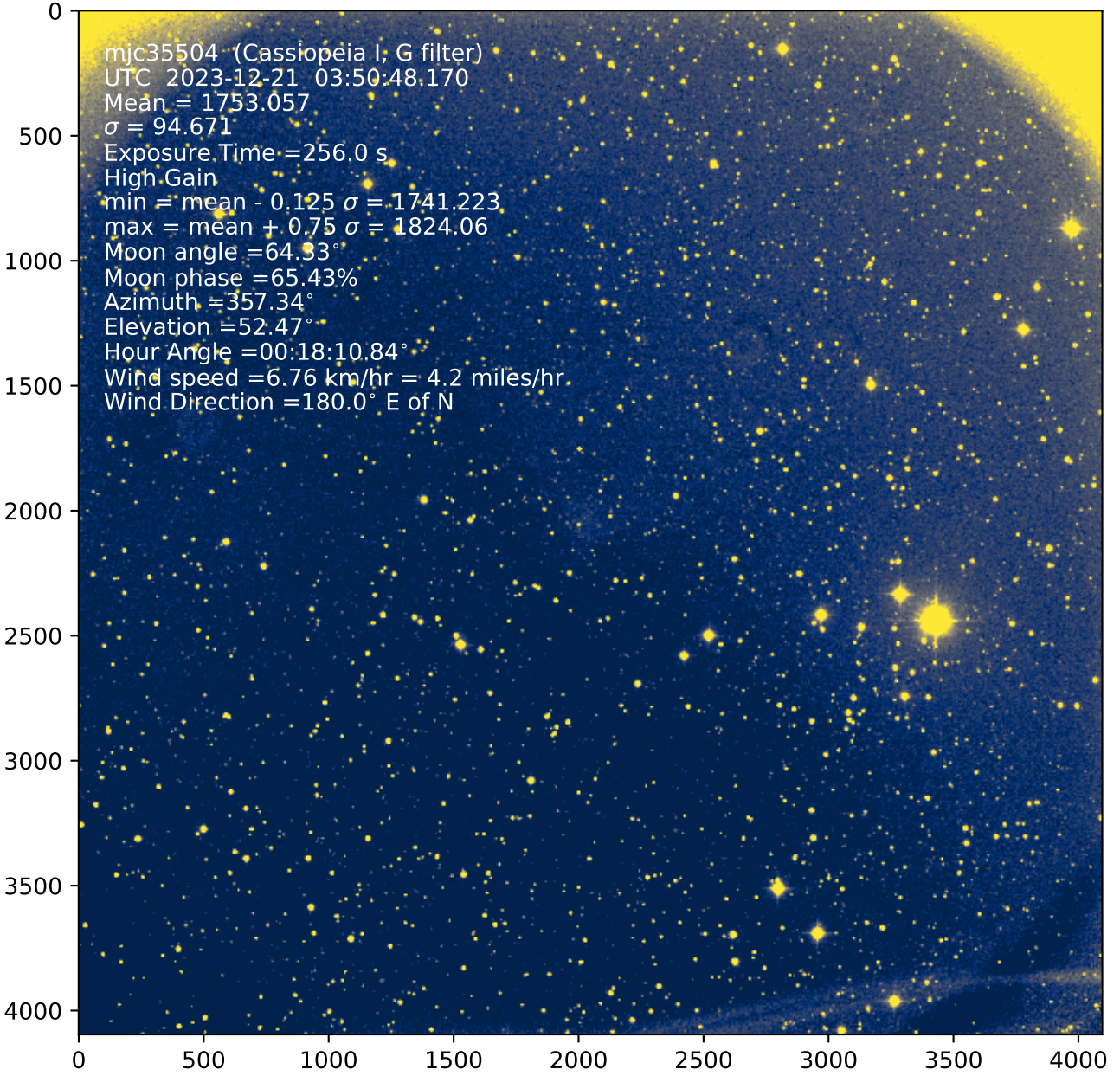
3000
3500
4000


mjc35504 (Cassiopeia I, G filter)
UTC 2023-12-21 03:50:48.170
Mean = 1753.057
σ = 94.671
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1741.223
max = mean + 0.75 σ = 1824.06
Moon angle =64.33°
Moon phase =65.43%
Azimuth =357.34°
Elevation =52.47°
Hour Angle =00:18:10.84°
Wind speed =6.76 km/hr = 4.2 miles/hr
Wind Direction =180.0° E of N
0
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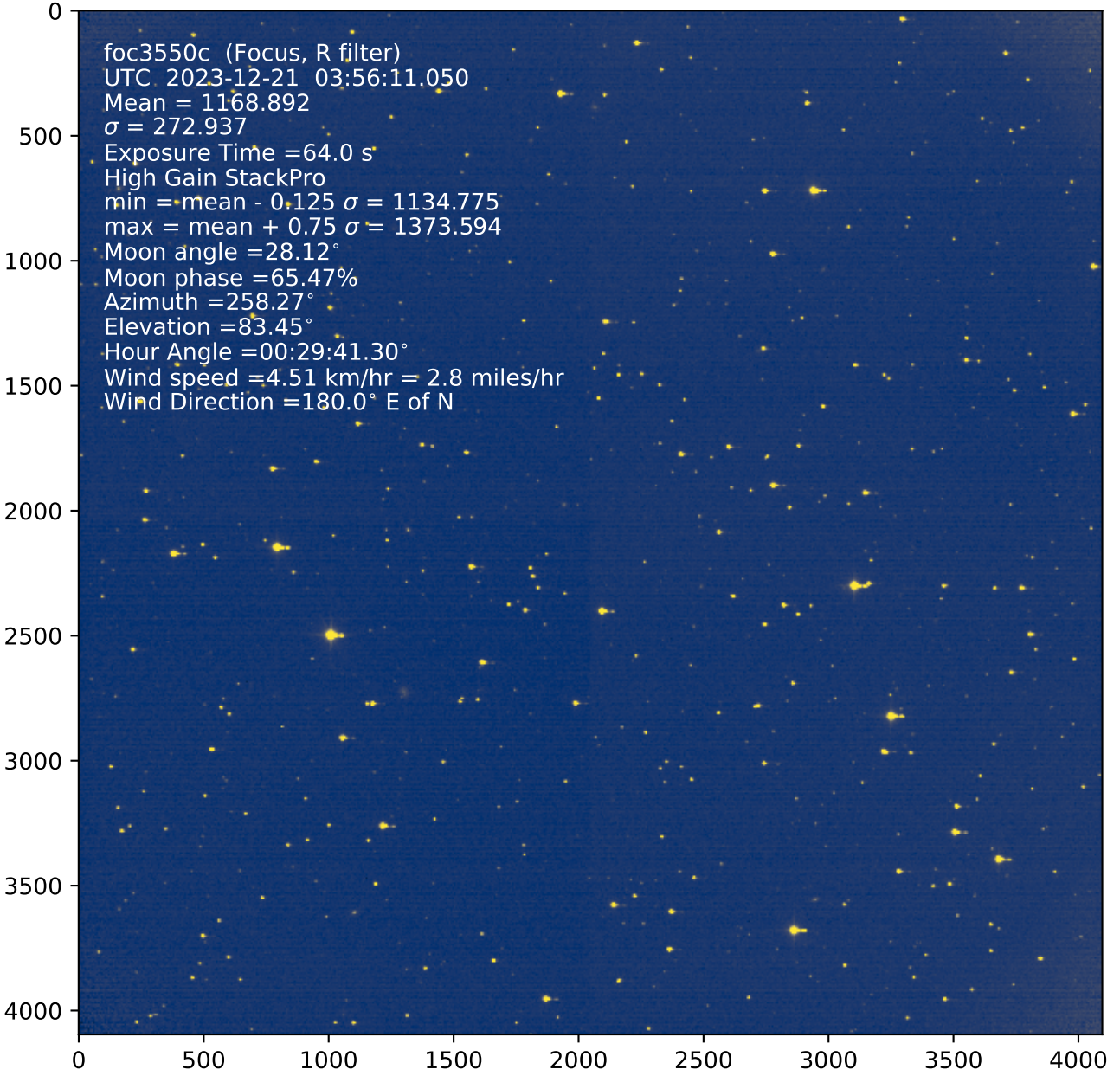
3000
3500
4000


foc3550c (Focus, R filter)
UTC 2023-12-21 03:56:11.050
Mean = 1168.892
σ = 272.937
Exposure Time =64.0 s
High Gain StackPro
min = mean - 0.125 σ = 1134.775
max = mean + 0.75 σ = 1373.594
Moon angle =28.12°
Moon phase =65.47%
Azimuth =258.27°
Elevation =83.45°
Hour Angle =00:29:41.30°
Wind speed =4.51 km/hr = 2.8 miles/hr
Wind Direction =180.0° E of N
0
500
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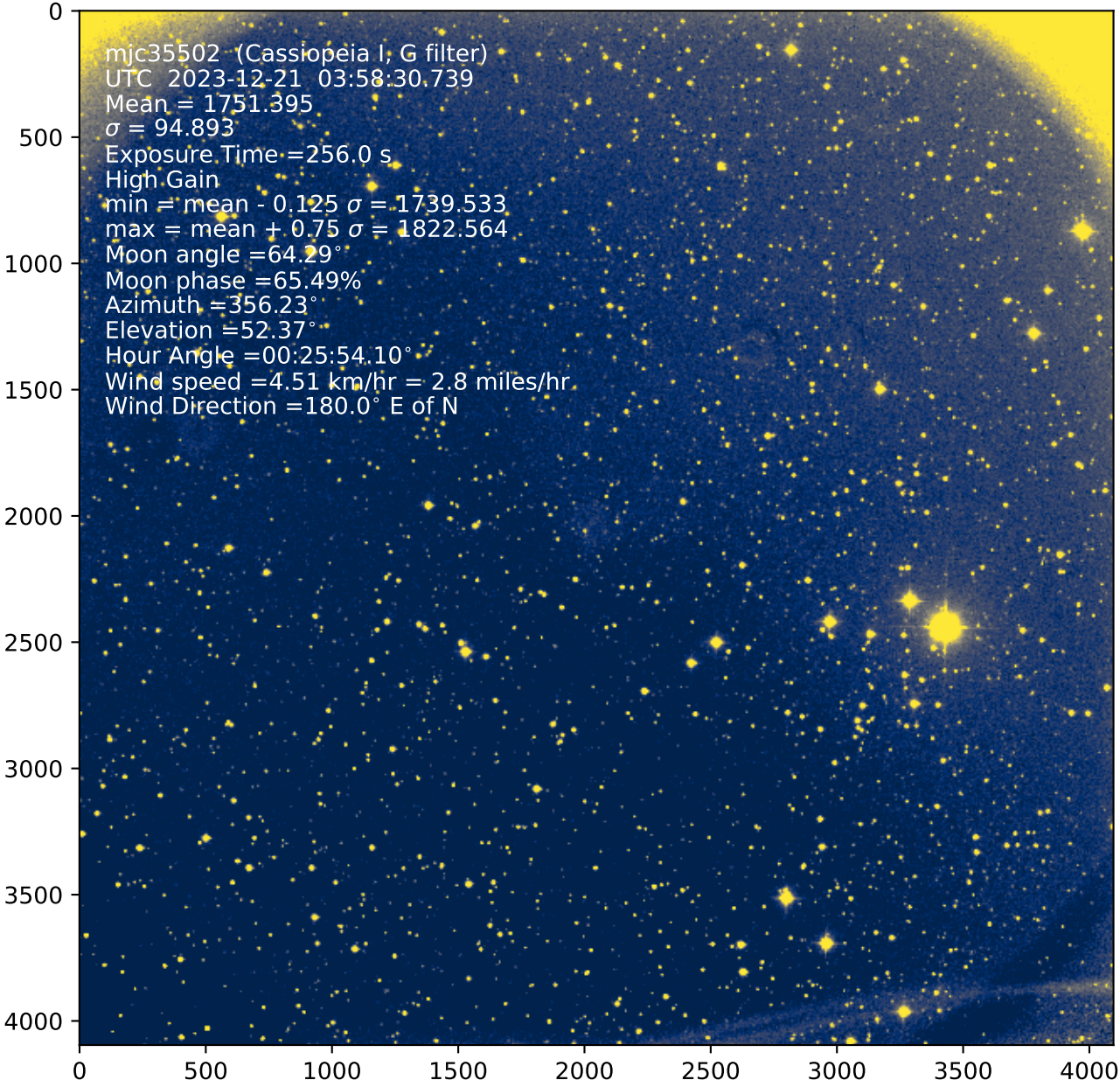
2000
2500
3000
3500
4000


mjc35502 (Cassiopeia I, G filter)
UTC 2023-12-21 03:58:30.739
Mean = 1751.395
σ = 94.893
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1739.533
max = mean + 0.75 σ = 1822.564
Moon angle =64.29°
Moon phase =65.49%
Azimuth =356.23°
Elevation =52.37°
Hour Angle =00:25:54.10°
Wind speed =4.51 km/hr = 2.8 miles/hr
Wind Direction =180.0° E of N
0
500
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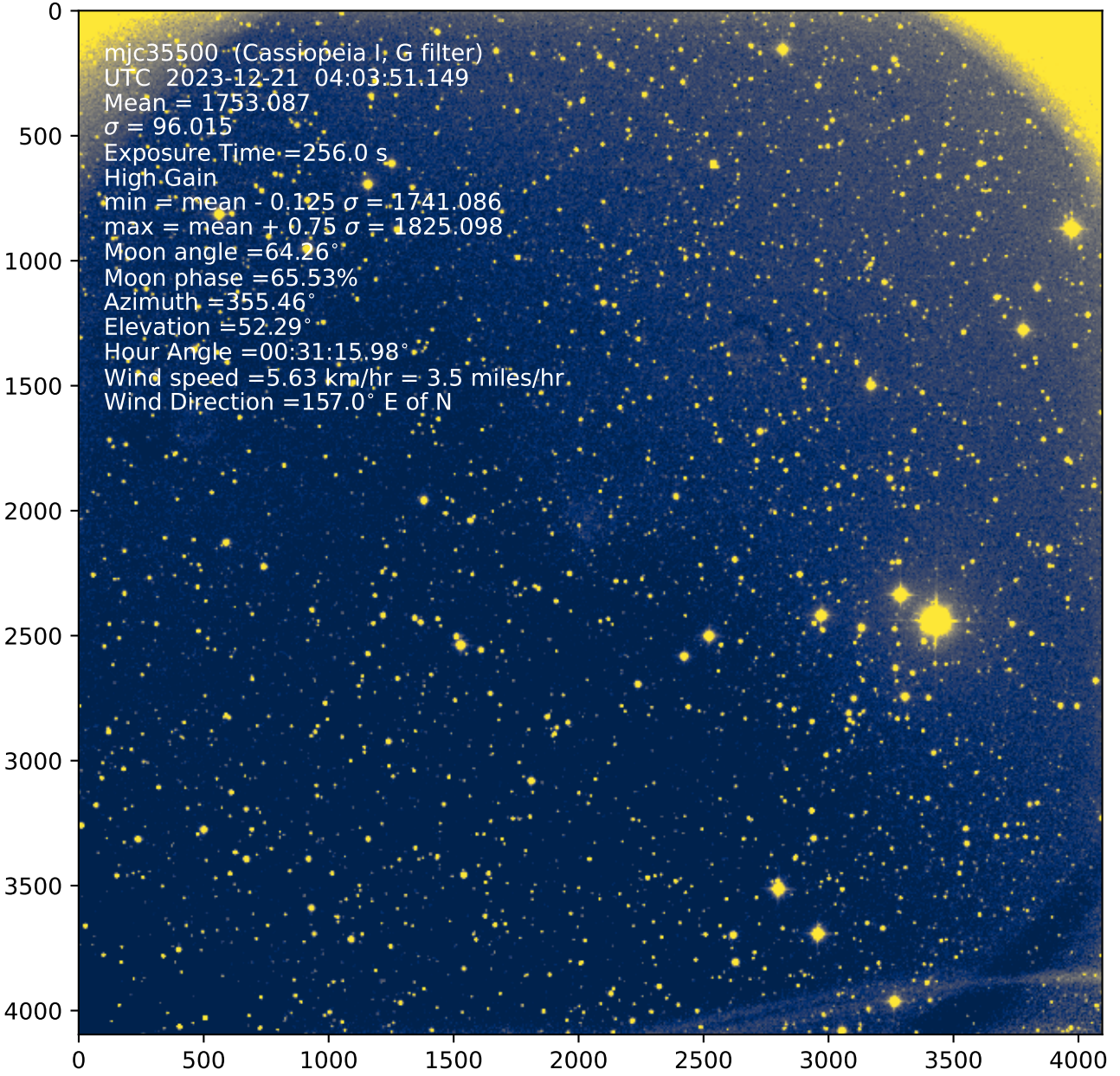
2000
2500
3000
3500
4000


mjc35500 (Cassiopeia I, G filter)
UTC 2023-12-21 04:03:51.149
Mean = 1753.087
σ = 96.015
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1741.086
max = mean + 0.75 σ = 1825.098
Moon angle =64.26°
Moon phase =65.53%
Azimuth =355.46°
Elevation =52.29°
Hour Angle =00:31:15.98°
Wind speed =5.63 km/hr = 3.5 miles/hr
Wind Direction =157.0° E of N
0
500
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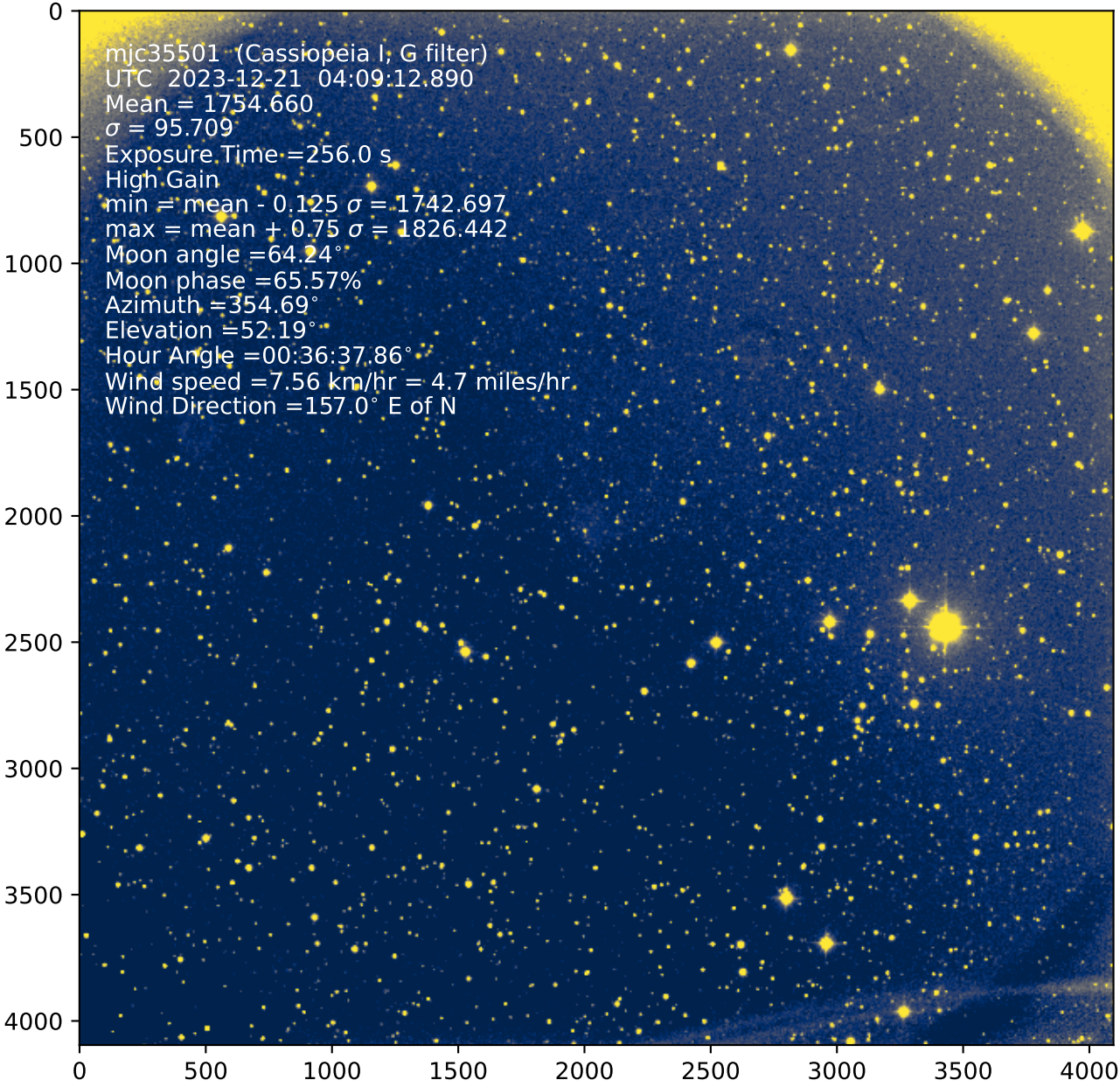
2500
3000
3500
4000


mjc35501 (Cassiopeia I, G filter)
UTC 2023-12-21 04:09:12.890
Mean = 1754.660
σ = 95.709
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1742.697
max = mean + 0.75 σ = 1826.442
Moon angle =64.24°
Moon phase =65.57%
Azimuth =354.69°
Elevation =52.19°
Hour Angle =00:36:37.86°
Wind speed =7.56 km/hr = 4.7 miles/hr
Wind Direction =157.0° E of N
0
500
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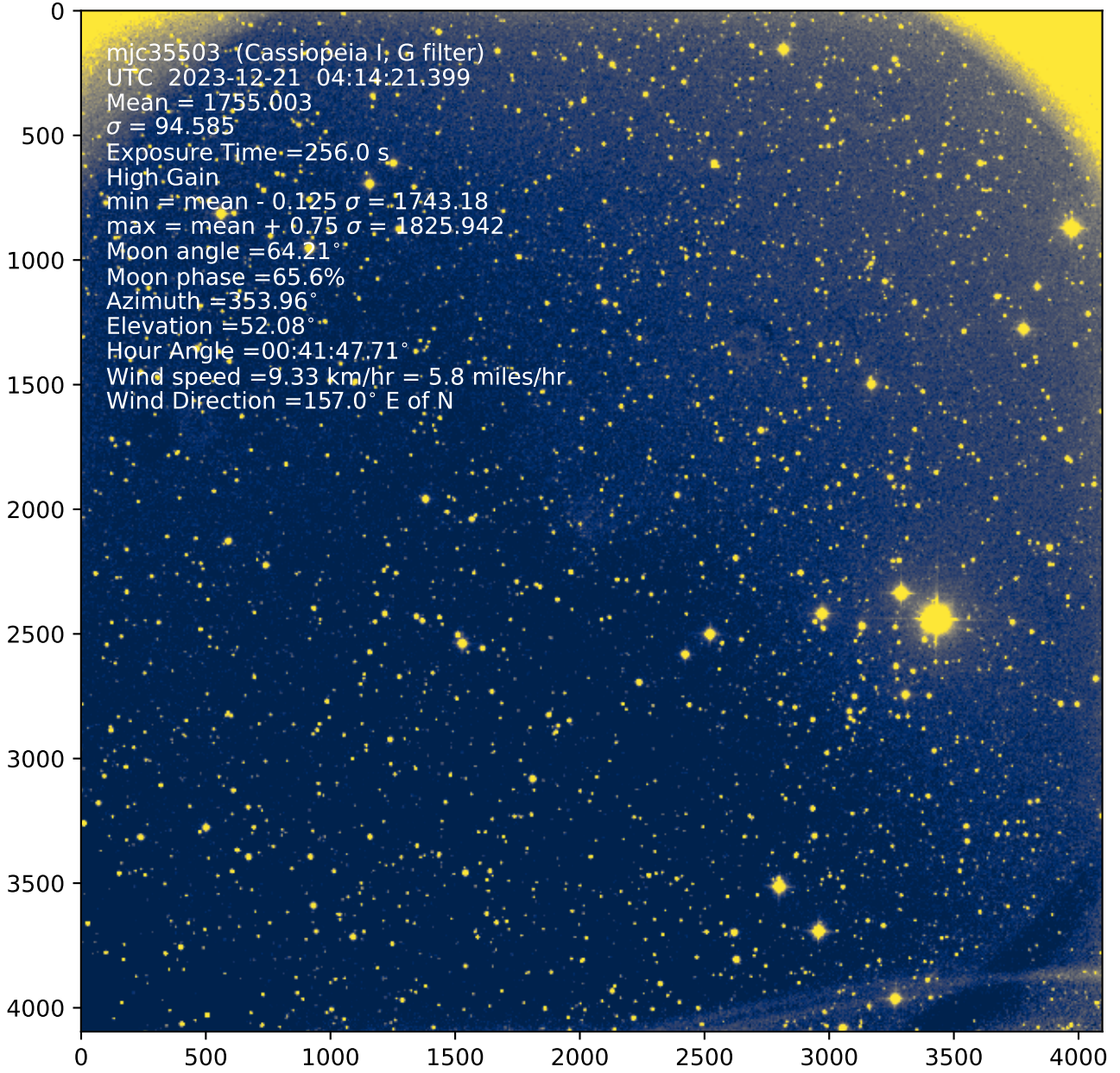
3000
3500
4000


mjc35503 (Cassiopeia I, G filter)
UTC 2023-12-21 04:14:21.399
Mean = 1755.003
σ = 94.585
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1743.18
max = mean + 0.75 σ = 1825.942
Moon angle =64.21°
Moon phase =65.6%
Azimuth =353.96°
Elevation =52.08°
Hour Angle =00:41:47.71°
Wind speed =9.33 km/hr = 5.8 miles/hr
Wind Direction =157.0° E of N
0
500
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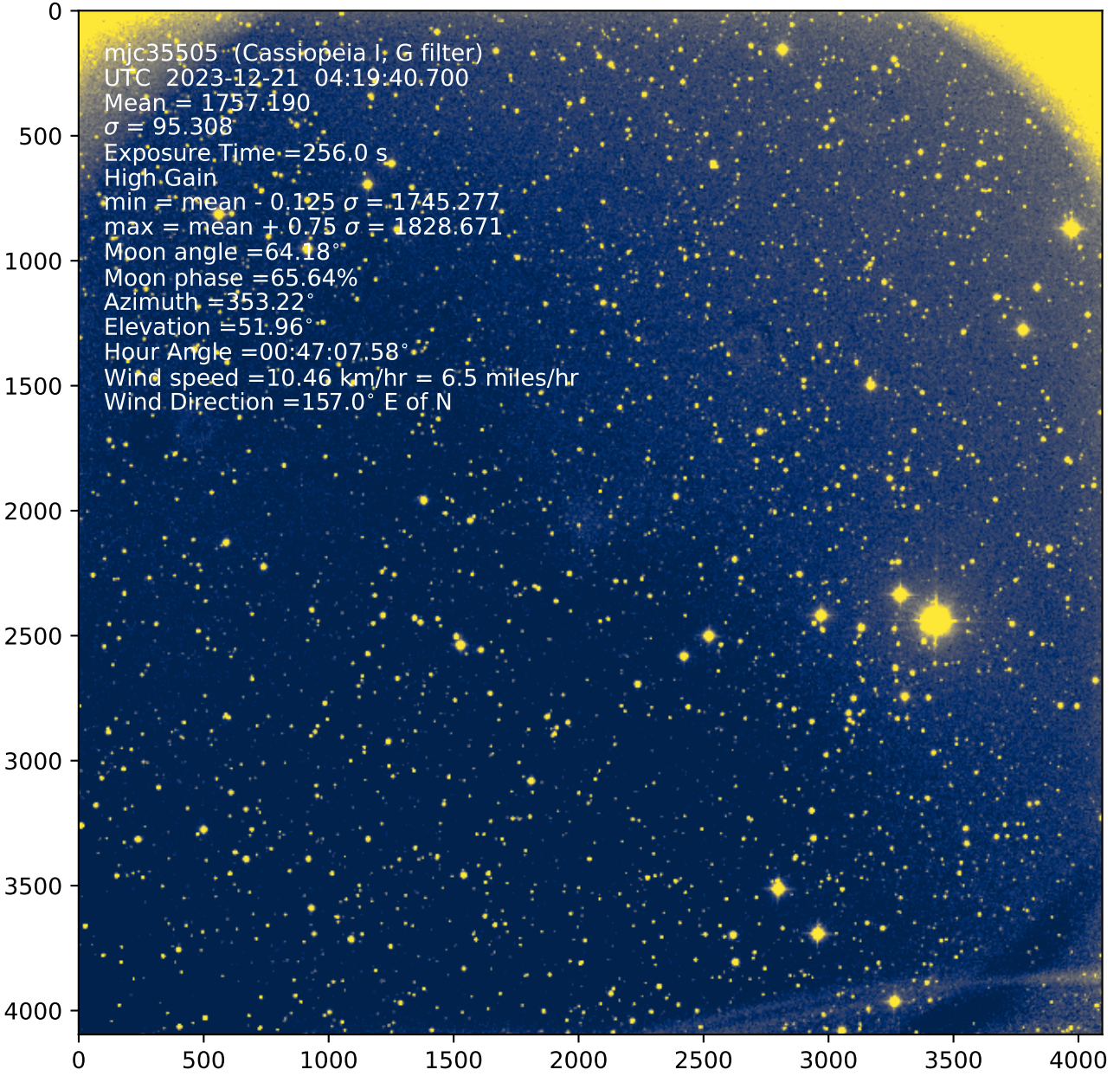
2500
3000
3500
4000


mjc35505 (Cassiopeia I, G filter)
UTC 2023-12-21 04:19:40.700
Mean = 1757.190
σ = 95.308
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1745.277
max = mean + 0.75 σ = 1828.671
Moon angle =64.18°
Moon phase =65.64%
Azimuth =353.22°
Elevation =51.96°
Hour Angle =00:47:07.58°
Wind speed =10.46 km/hr = 6.5 miles/hr
Wind Direction =157.0° E of N
0
500
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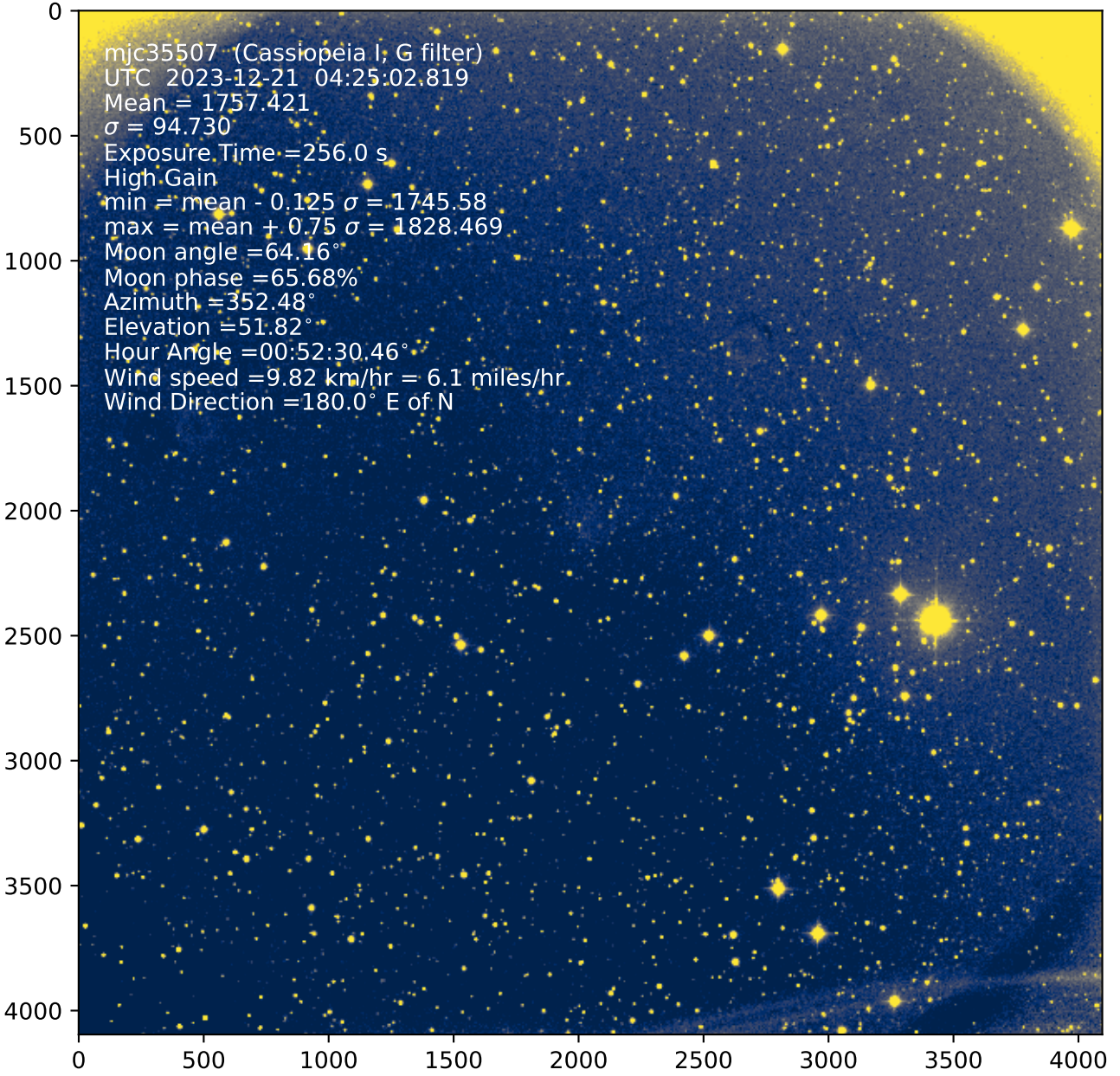
2000
2500
3000
3500
4000


mjc35507 (Cassiopeia I, G filter)
UTC 2023-12-21 04:25:02.819
Mean = 1757.421
σ = 94.730
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1745.58
max = mean + 0.75 σ = 1828.469
Moon angle =64.16°
Moon phase =65.68%
Azimuth =352.48°
Elevation =51.82°
Hour Angle =00:52:30.46°
Wind speed =9.82 km/hr = 6.1 miles/hr
Wind Direction =180.0° E of N
0
500
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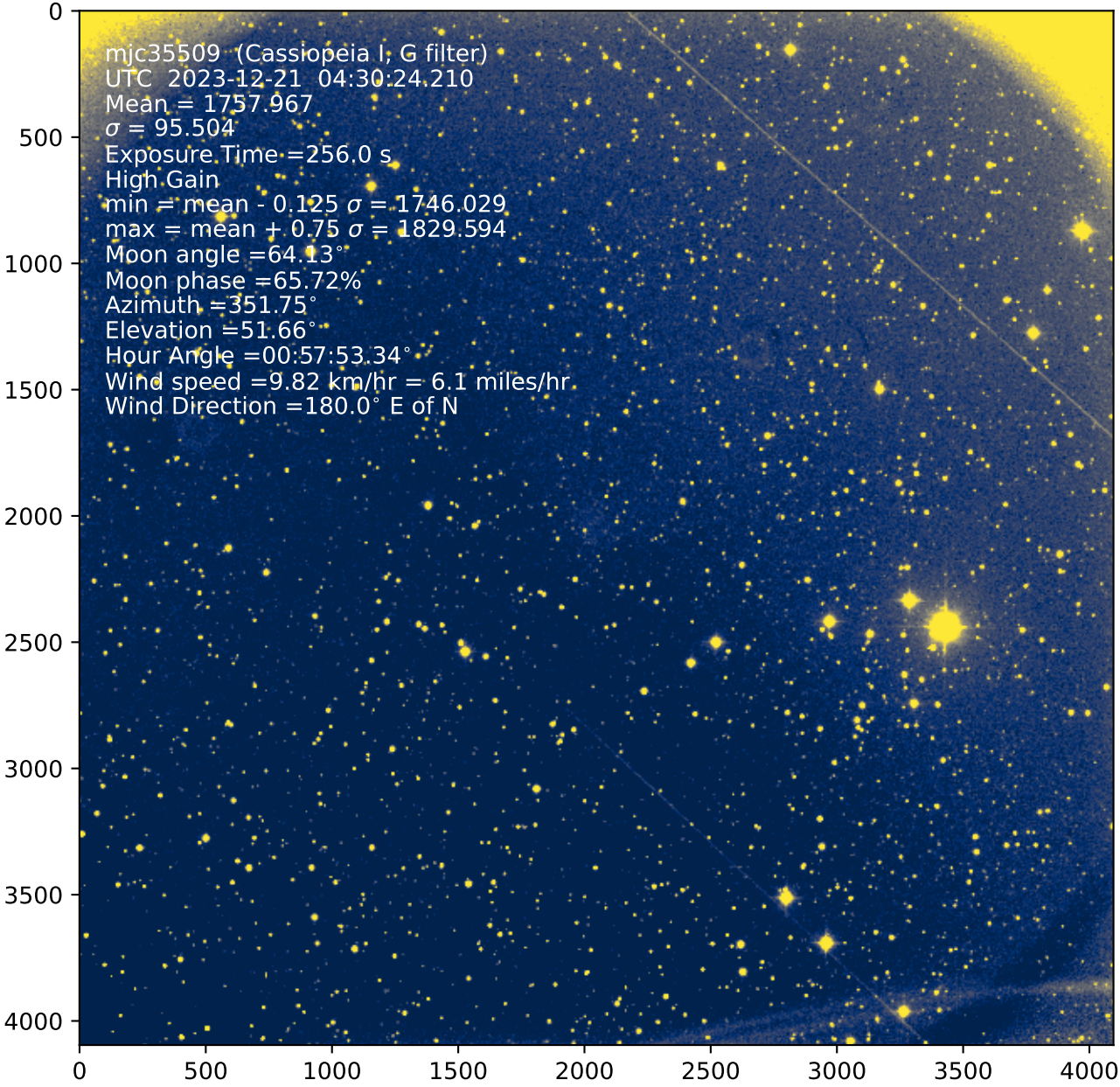
2500
3000
3500
4000


mjc35509 (Cassiopeia I, G filter)
UTC 2023-12-21 04:30:24.210
Mean = 1757.967
σ = 95.504
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1746.029
max = mean + 0.75 σ = 1829.594
Moon angle =64.13°
Moon phase =65.72%
Azimuth =351.75°
Elevation =51.66°
Hour Angle =00:57:53.34°
Wind speed =9.82 km/hr = 6.1 miles/hr
Wind Direction =180.0° E of N
0
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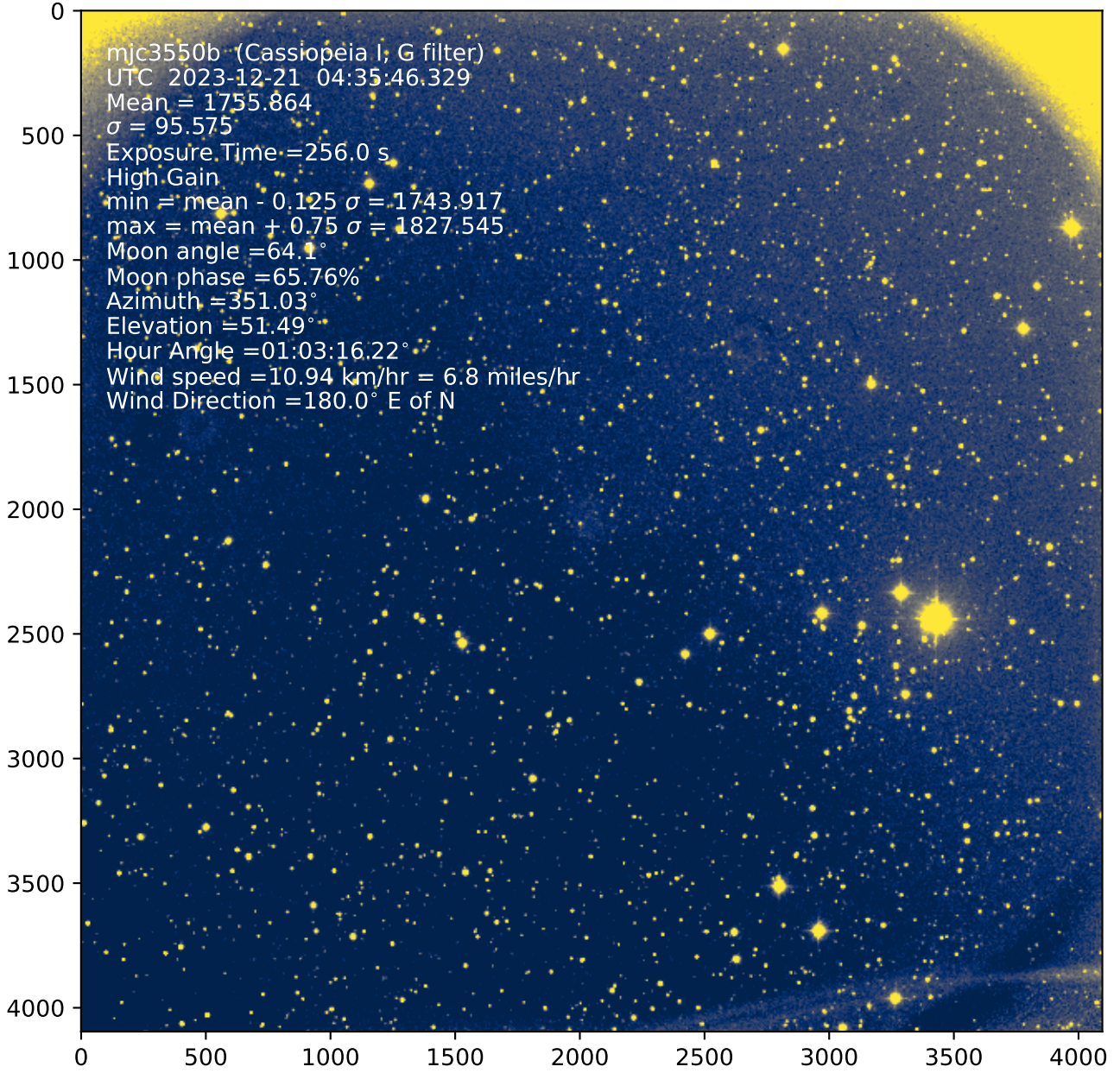
3500
4000


mjc3550b (Cassiopeia I, G filter)
UTC 2023-12-21 04:35:46.329
Mean = 1755.864
σ = 95.575
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1743.917
max = mean + 0.75 σ = 1827.545
Moon angle =64.1°
Moon phase =65.76%
Azimuth =351.03°
Elevation =51.49°
Hour Angle =01:03:16.22°
Wind speed =10.94 km/hr = 6.8 miles/hr
Wind Direction =180.0° E of N
0
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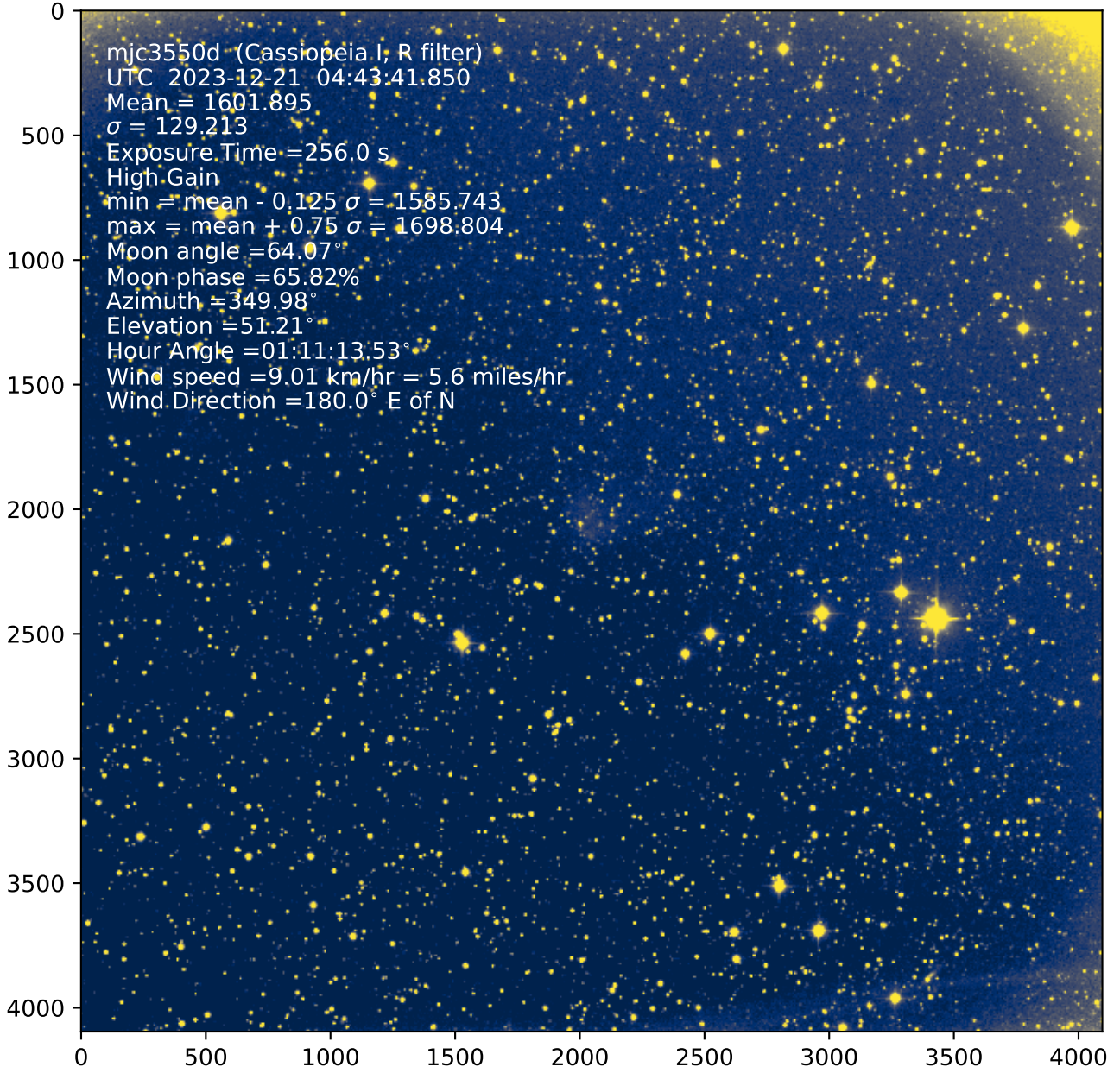
4000


mjc3550d (Cassiopeia I; R filter)
UTC 2023-12-21 04:43:41.850
Mean = 1601.895
σ = 129.213
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1585.743
max = mean + 0.75 σ = 1698.804
Moon angle =64.07°
Moon phase =65.82%
Azimuth =349.98°
Elevation =51.21°
Hour Angle =01:11:13.53°
Wind speed =9.01 km/hr = 5.6 miles/hr
Wind Direction =180.0° E of N
0
500
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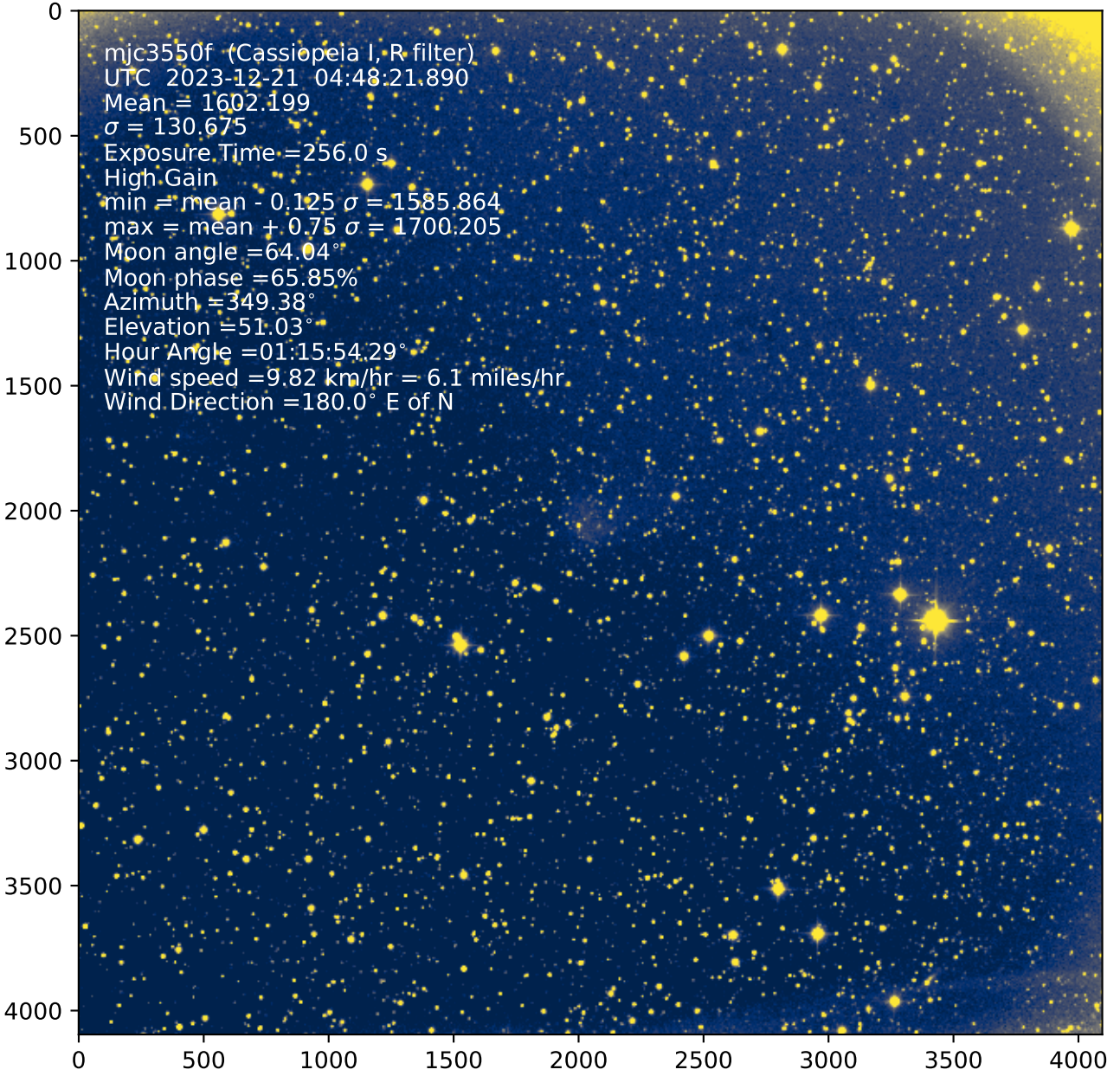
2500
3000
3500
4000


mjc3550f (Cassiopeia I, R filter)
UTC 2023-12-21 04:48:21.890
Mean = 1602.199
σ = 130.675
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1585.864
max = mean + 0.75 σ = 1700.205
Moon angle =64.04°
Moon phase =65.85%
Azimuth =349.38°
Elevation =51.03°
Hour Angle =01:15:54.29°
Wind speed =9.82 km/hr = 6.1 miles/hr
Wind Direction =180.0° E of N
0
500
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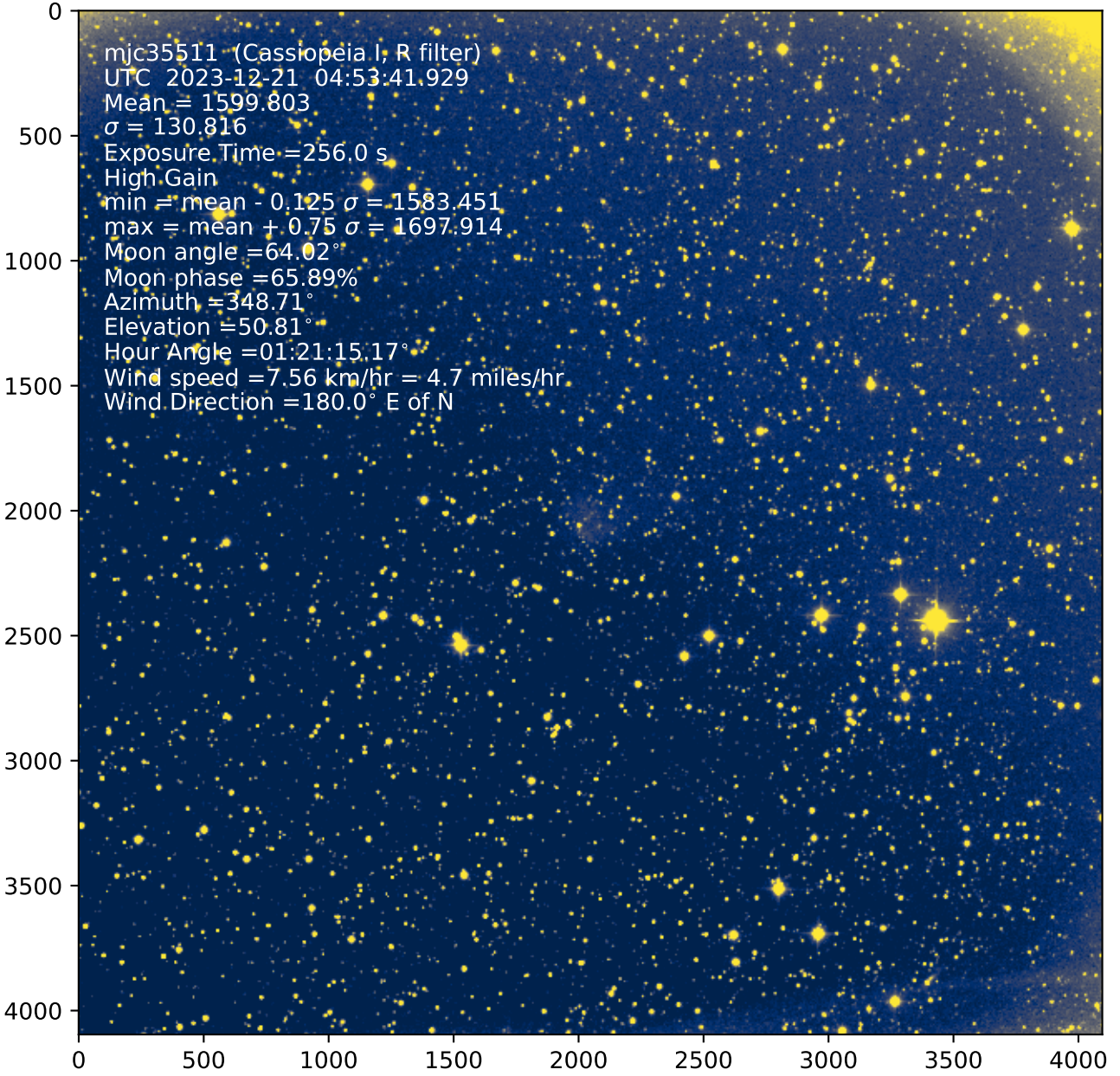
3500
4000


mjc35511 (Cassiopeia I; R filter)
UTC 2023-12-21 04:53:41.929
Mean = 1599.803
σ = 130.816
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1583.451
max = mean + 0.75 σ = 1697.914
Moon angle =64.02°
Moon phase =65.89%
Azimuth =348.71°
Elevation =50.81°
Hour Angle =01:21:15.17°
Wind speed =7.56 km/hr = 4.7 miles/hr
Wind Direction =180.0° E of N
0
500
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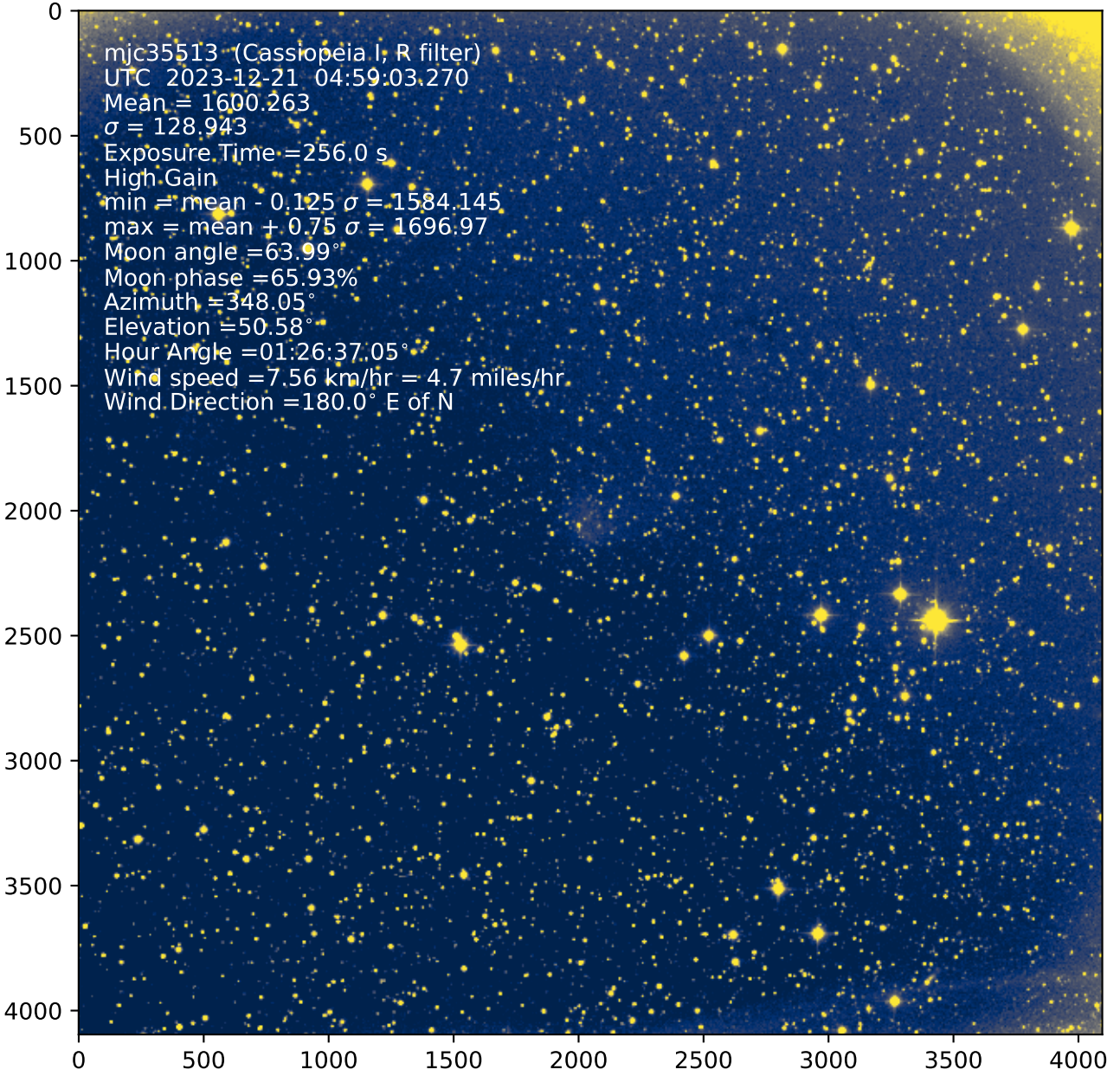
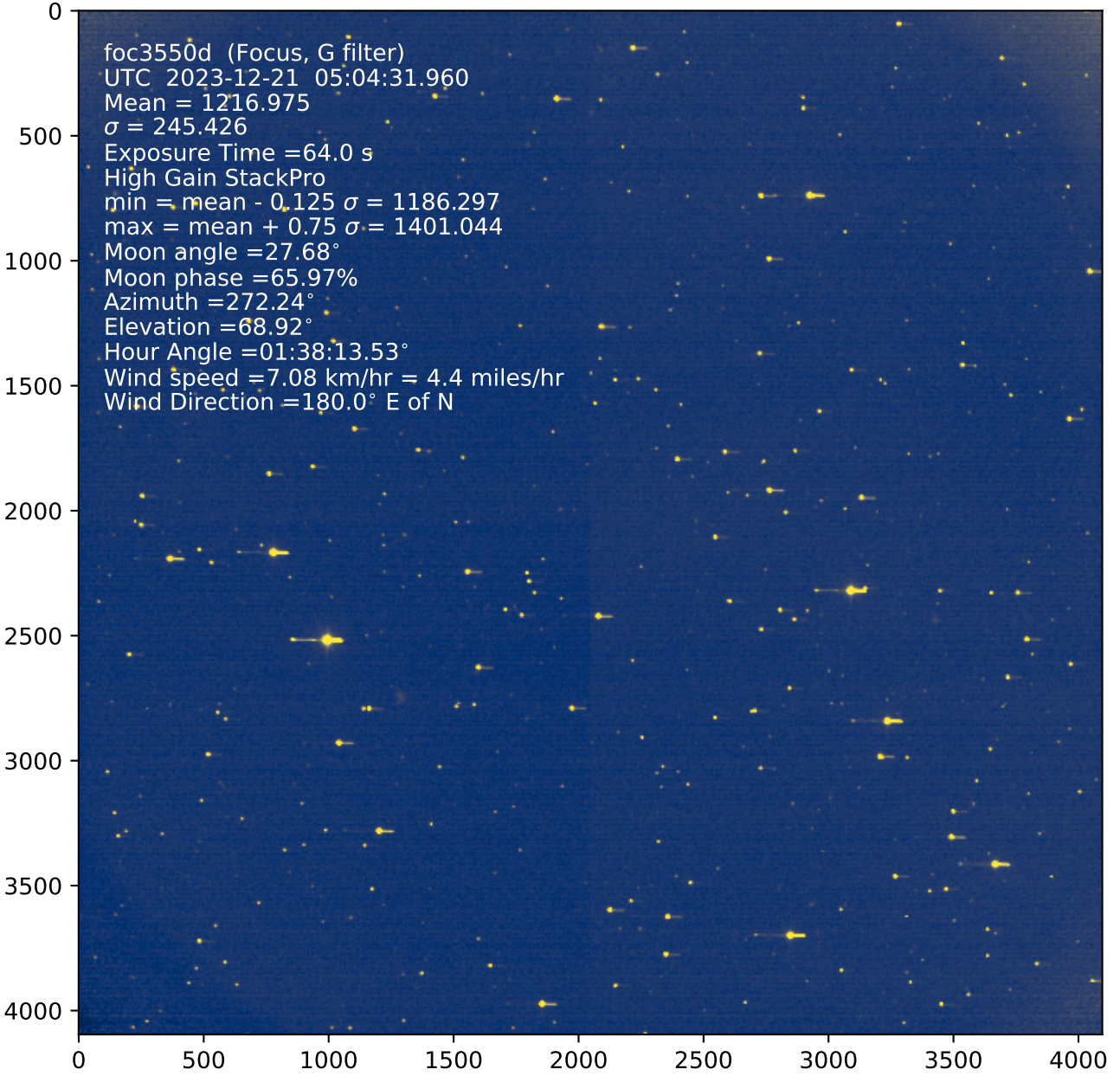
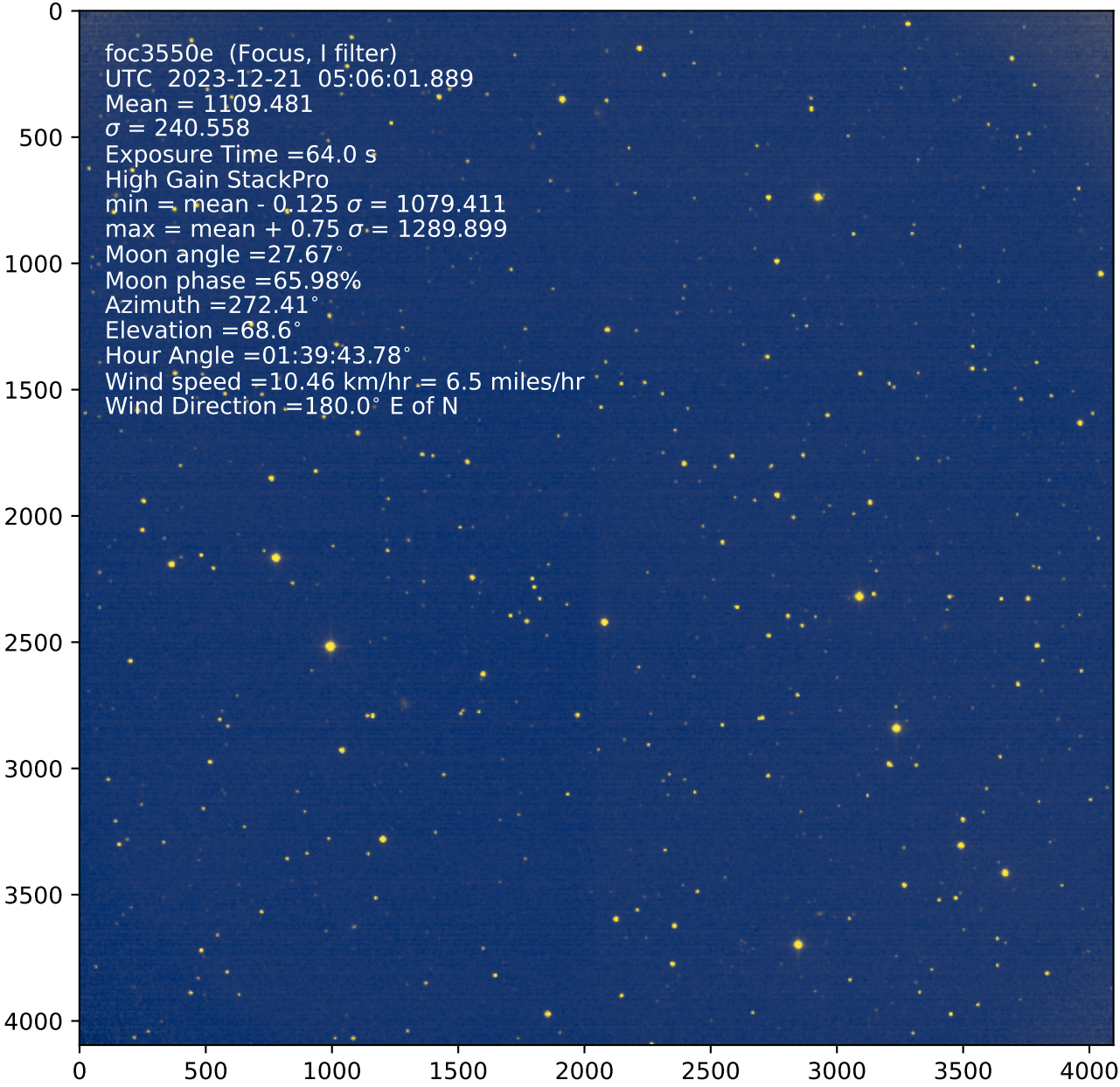
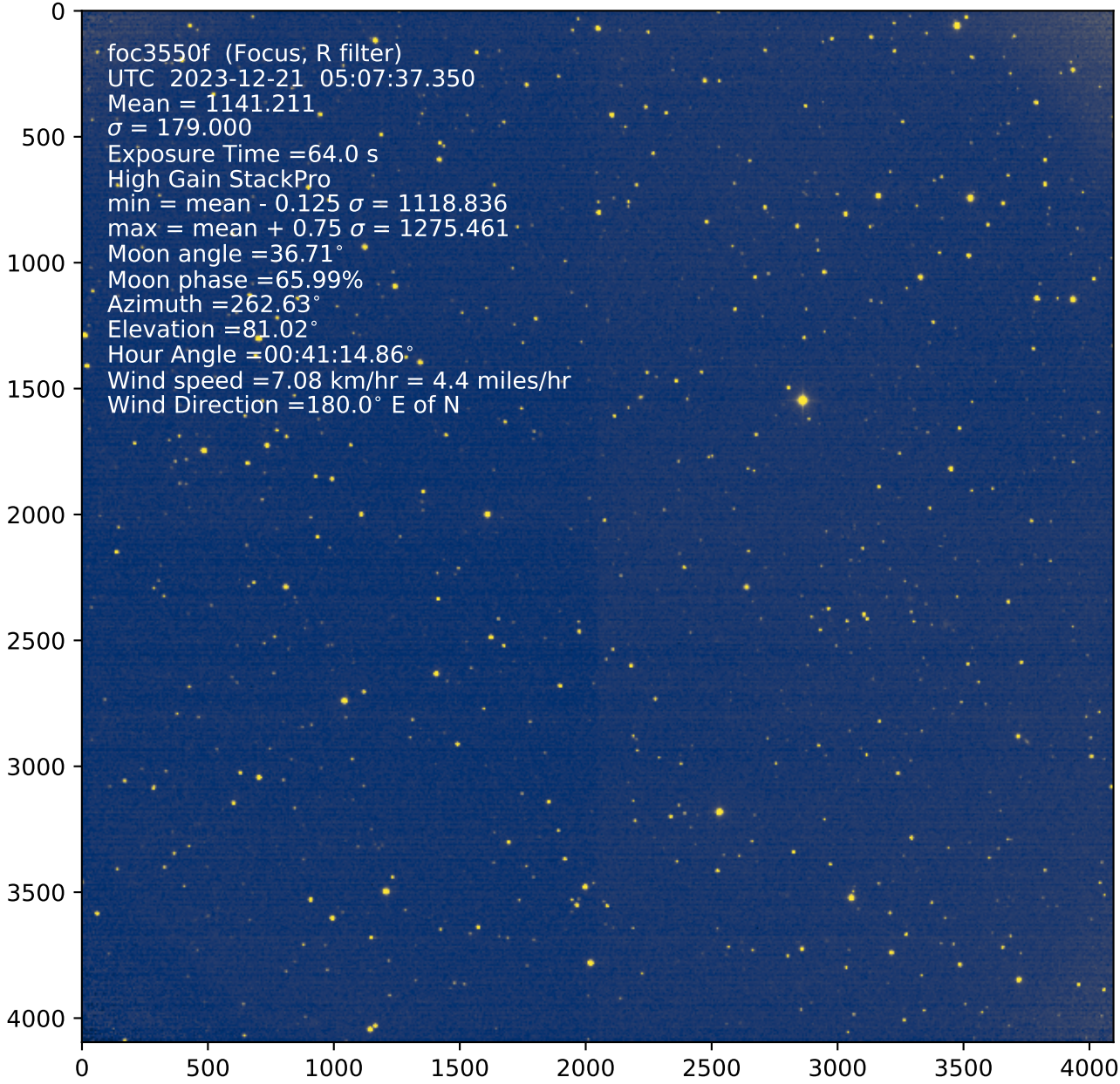
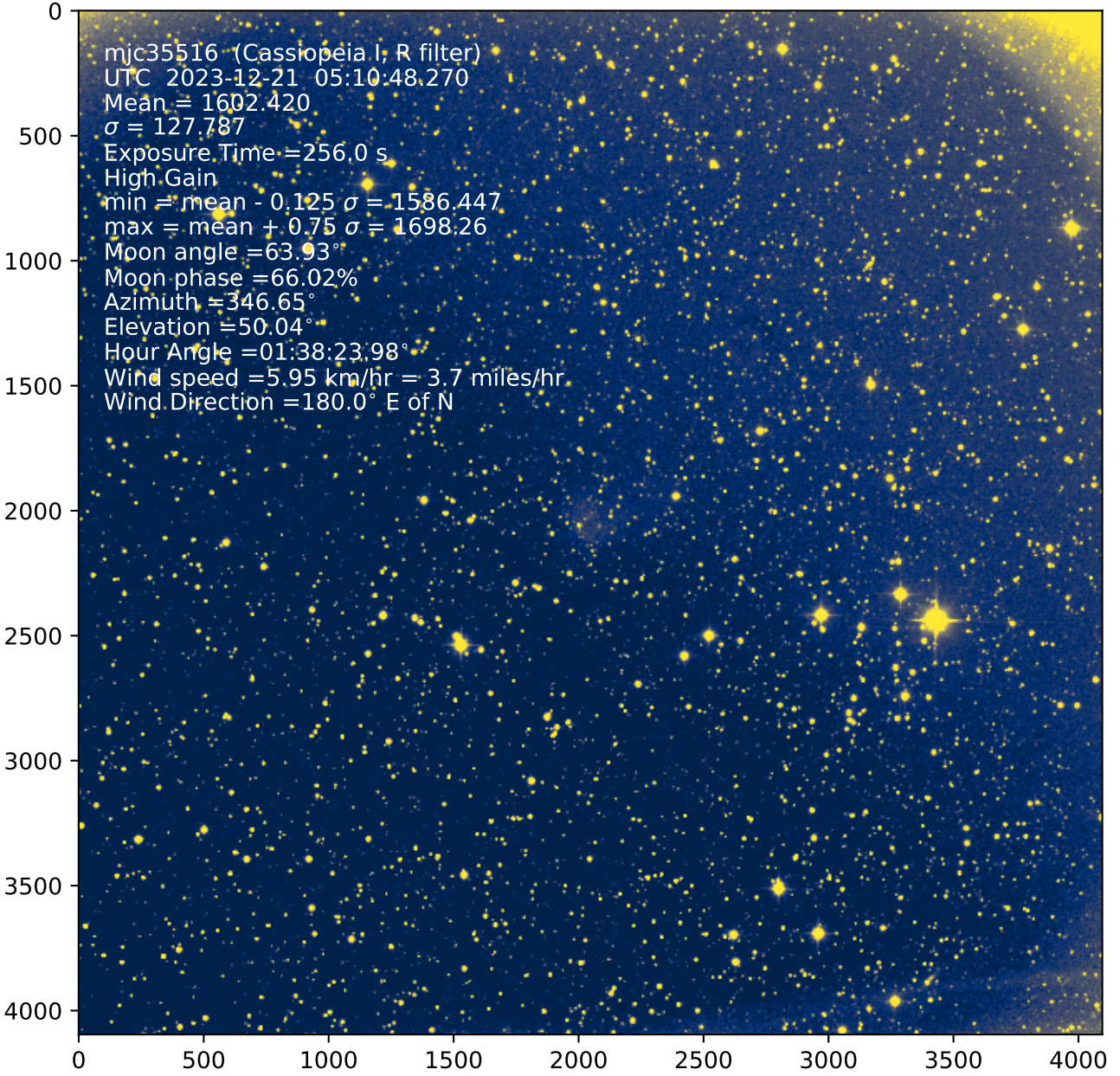
2500
3000
3500
4000


mjc35513 (Cassiopeia I, R filter)
UTC 2023-12-21 04:59:03.270
Mean = 1600.263
σ = 128.943
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1584.145
max = mean + 0.75 σ = 1696.97
Moon angle =63.99°
Moon phase =65.93%
Azimuth =348.05°
Elevation =50.58°
Hour Angle =01:26:37.05°
Wind speed =7.56 km/hr = 4.7 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


foc3550d (Focus, G filter)
UTC 2023-12-21 05:04:31.960
Mean = 1216.975
σ = 245.426
Exposure Time =64.0 s
High Gain StackPro
min = mean - 0.125 σ = 1186.297
max = mean + 0.75 σ = 1401.044
Moon angle =27.68°
Moon phase =65.97%
Azimuth =272.24°
Elevation =68.92°
Hour Angle =01:38:13.53°
Wind speed =7.08 km/hr = 4.4 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


foc3550e (Focus, I filter)
UTC 2023-12-21 05:06:01.889
Mean = 1109.481
σ = 240.558
Exposure Time =64.0 s
High Gain StackPro
min = mean - 0.125 σ = 1079.411
max = mean + 0.75 σ = 1289.899
Moon angle =27.67°
Moon phase =65.98%
Azimuth =272.41°
Elevation =68.6°
Hour Angle =01:39:43.78°
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


foc3550f (Focus, R filter)
UTC 2023-12-21 05:07:37.350
Mean = 1141.211
σ = 179.000
Exposure Time =64.0 s
High Gain StackPro
min = mean - 0.125 σ = 1118.836
max = mean + 0.75 σ = 1275.461
Moon angle =36.71°
Moon phase =65.99%
Azimuth =262.63°
Elevation =81.02°
Hour Angle =00:41:14.86°
Wind speed =7.08 km/hr = 4.4 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mjc35516 (Cassiopeia I, R filter)
UTC 2023-12-21 05:10:48.270
Mean = 1602.420
σ = 127.787
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1586.447
max = mean + 0.75 σ = 1698.26
Moon angle =63.93°
Moon phase =66.02%
Azimuth =346.65°
Elevation =50.04°
Hour Angle =01:38:23.98°
Wind speed =5.95 km/hr = 3.7 miles/hr
Wind Direction =180.0° E of N
0
500
1000
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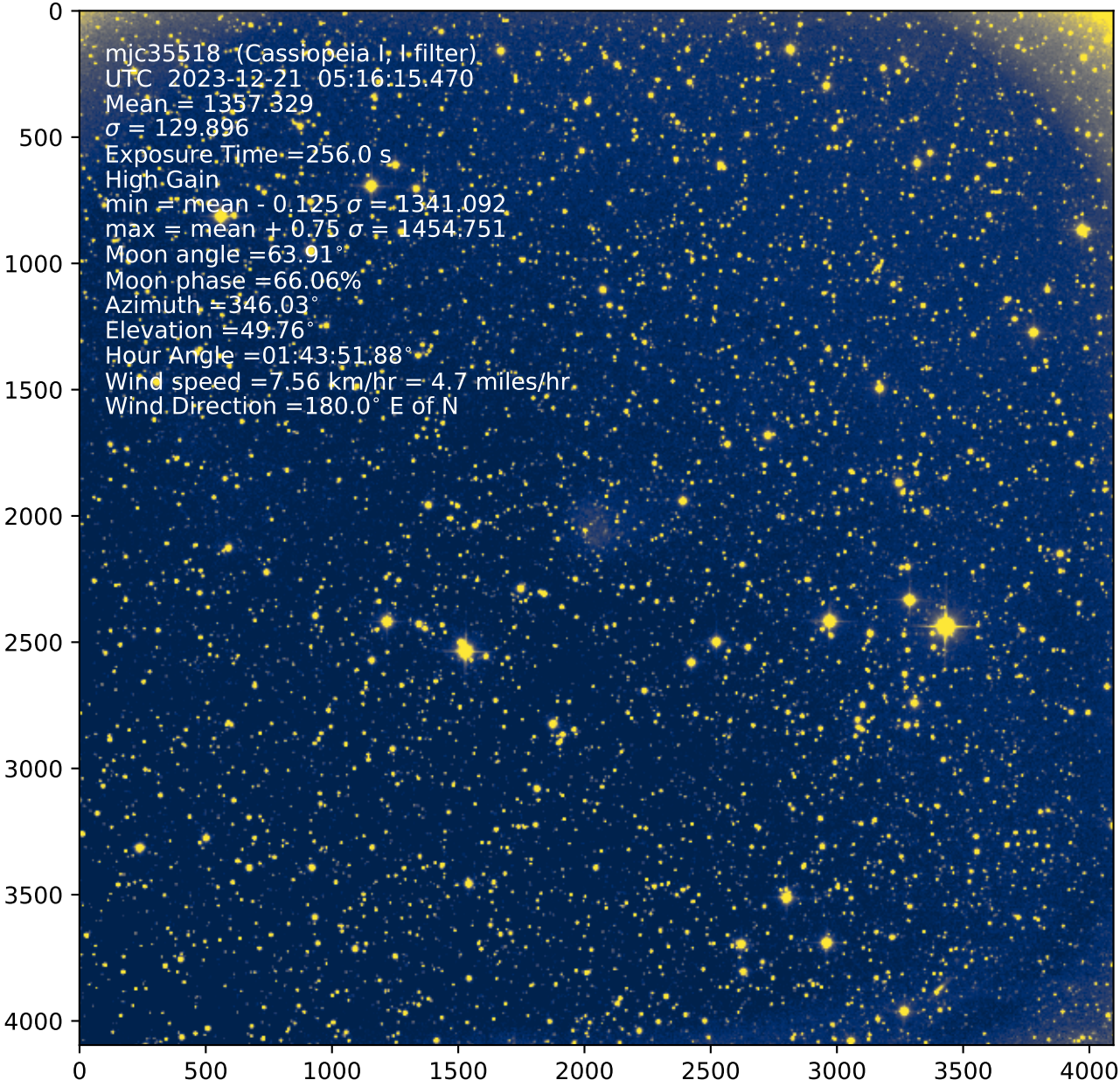
2000
2500
3000
3500
4000


mjc35518 (Cassiopeia I, I-filter)
UTC 2023-12-21 05:16:15.470
Mean = 1357.329
σ = 129.896
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1341.092
max = mean + 0.75 σ = 1454.751
Moon angle =63.91°
Moon phase =66.06%
Azimuth =346.03°
Elevation =49.76°
Hour Angle =01:43:51.88°
Wind speed =7.56 km/hr = 4.7 miles/hr
Wind Direction =180.0° E of N
0
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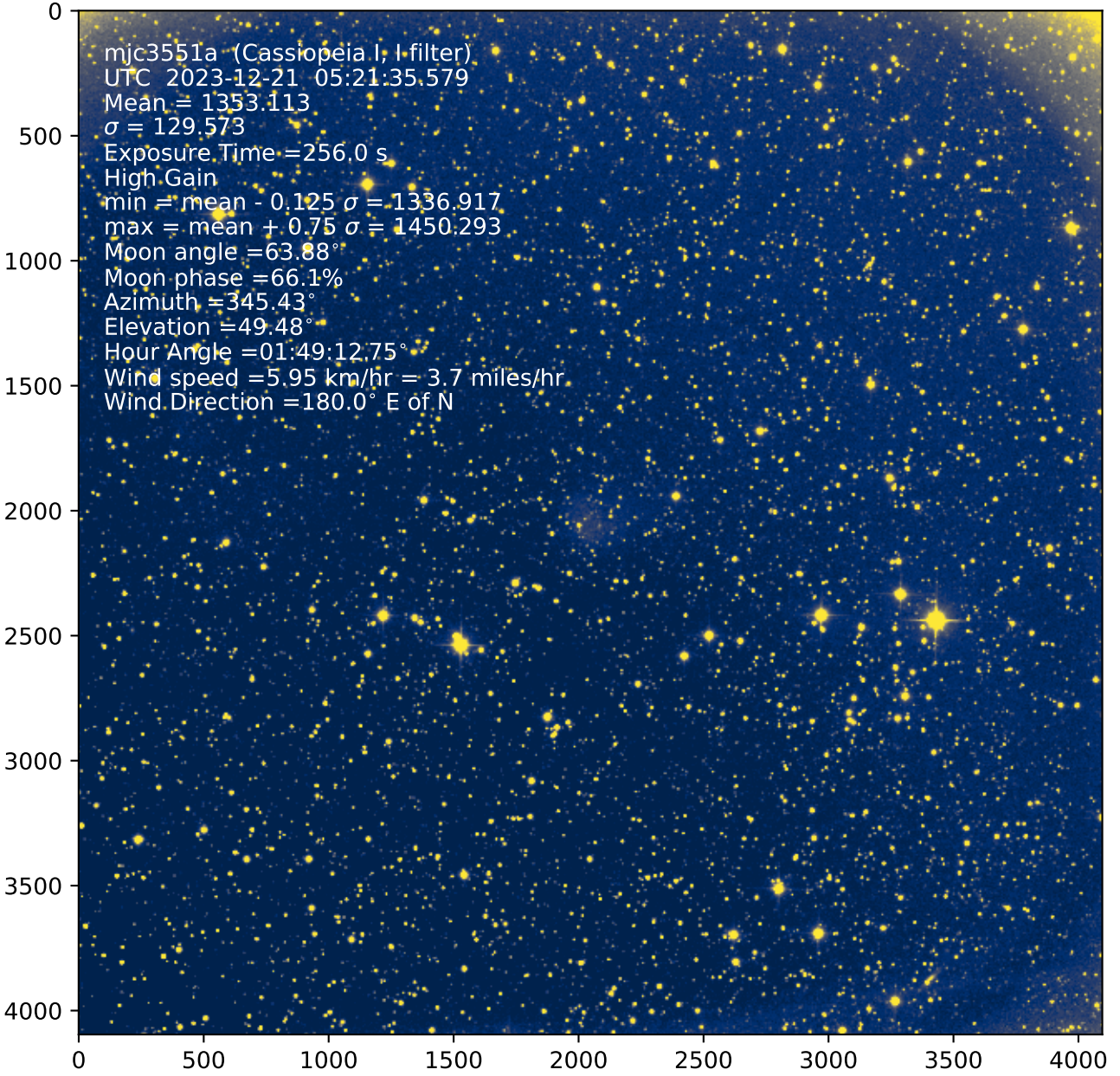
2000
2500
3000
3500
4000


mjc3551a (Cassiopeia I, I-filter)
UTC 2023-12-21 05:21:35.579
Mean = 1353.113
σ = 129.573
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1336.917
max = mean + 0.75 σ = 1450.293
Moon angle =63.88°
Moon phase =66.1%
Azimuth =345.43°
Elevation =49.48°
Hour Angle =01:49:12.75°
Wind speed =5.95 km/hr = 3.7 miles/hr
Wind Direction =180.0° E of N
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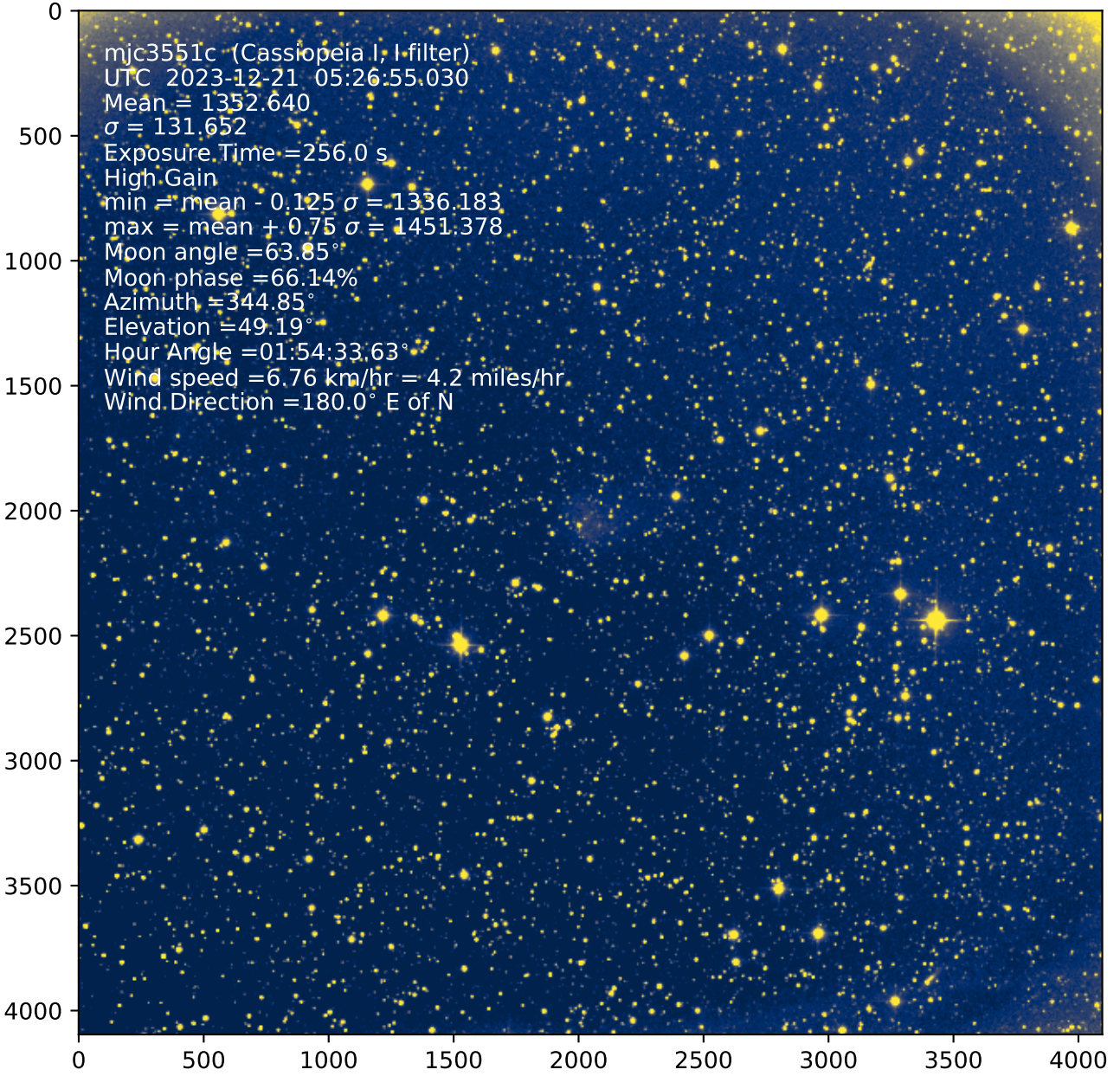
3500
4000


mjc3551c (Cassiopeia I, I-filter)
UTC 2023-12-21 05:26:55.030
Mean = 1352.640
σ = 131.652
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1336.183
max = mean + 0.75 σ = 1451.378
Moon angle =63.85°
Moon phase =66.14%
Azimuth =344.85°
Elevation =49.19°
Hour Angle =01:54:33.63°
Wind speed =6.76 km/hr = 4.2 miles/hr
Wind Direction =180.0° E of N
0
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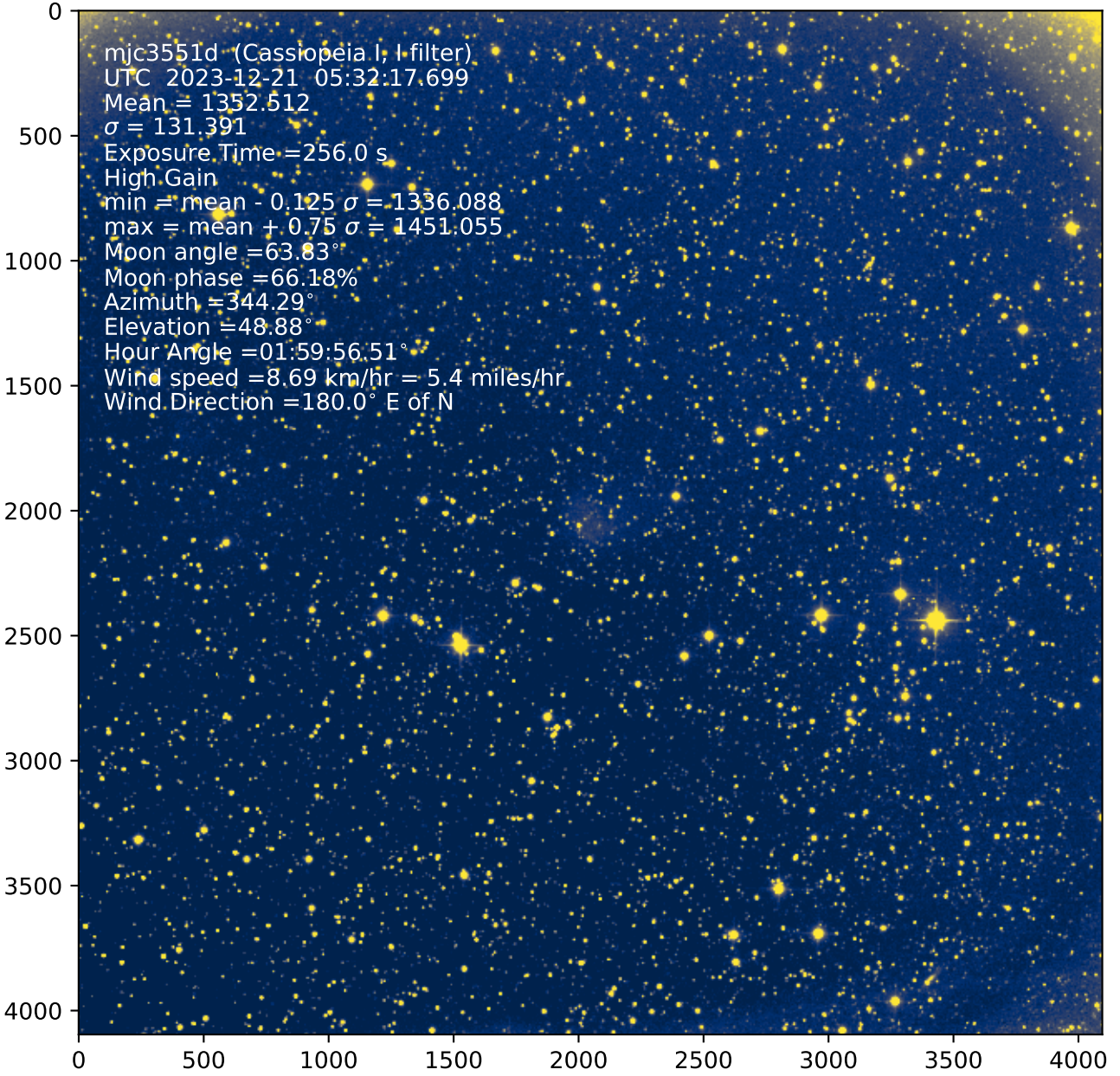
2500
3000
3500
4000


mjc3551d (Cassiopeia I, I-filter)
UTC 2023-12-21 05:32:17.699
Mean = 1352.512
σ = 131.391
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1336.088
max = mean + 0.75 σ = 1451.055
Moon angle =63.83°
Moon phase =66.18%
Azimuth =344.29°
Elevation =48.88°
Hour Angle =01:59:56.51°
Wind speed =8.69 km/hr = 5.4 miles/hr
Wind Direction =180.0° E of N
0
500
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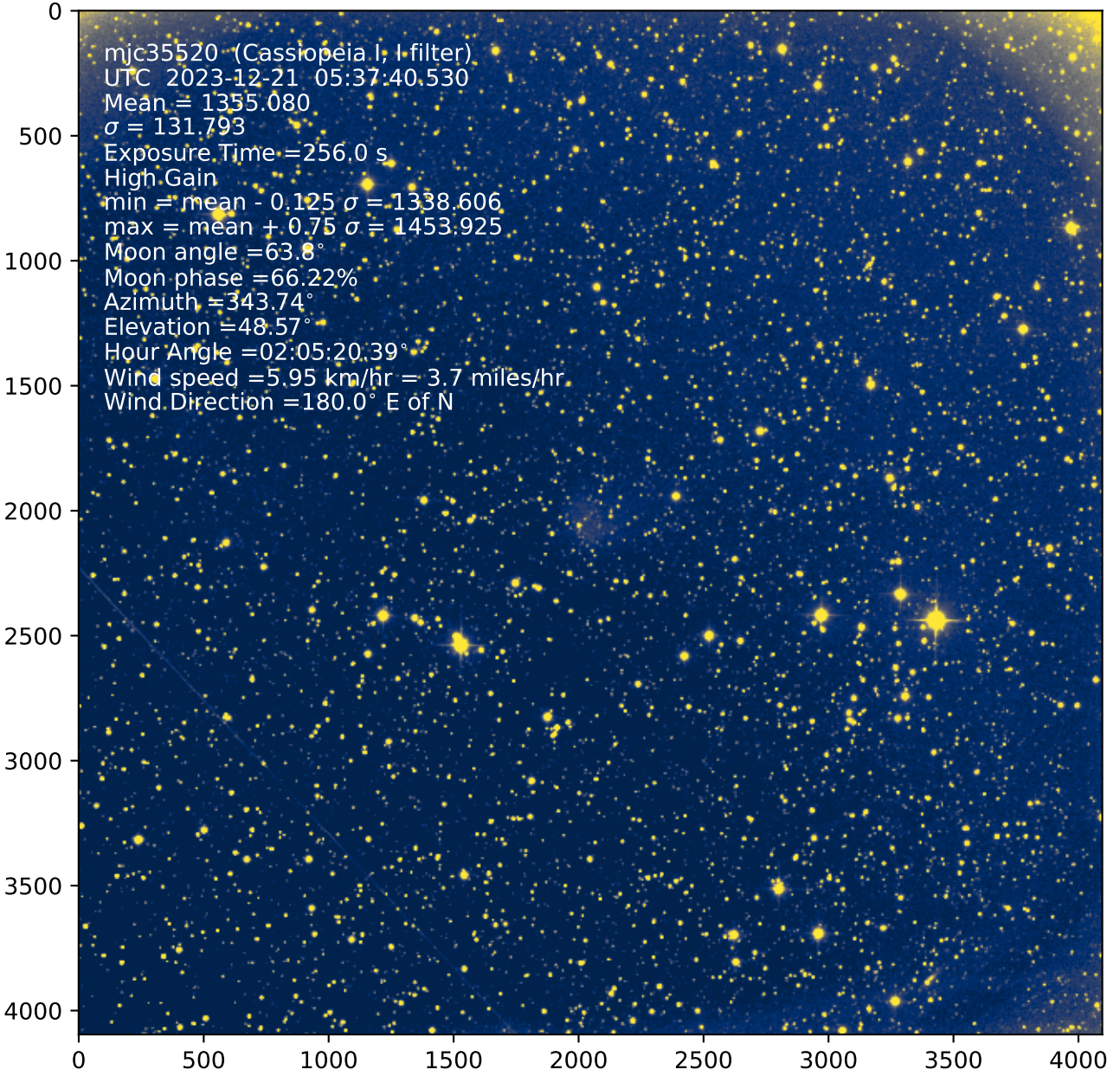
2000
2500
3000
3500
4000


mjc35520 (Cassiopeia I, I-filter)
UTC 2023-12-21 05:37:40.530
Mean = 1355.080
σ = 131.793
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1338.606
max = mean + 0.75 σ = 1453.925
Moon angle =63.8°
Moon phase =66.22%
Azimuth =343.74°
Elevation =48.57°
Hour Angle =02:05:20.39°
Wind speed =5.95 km/hr = 3.7 miles/hr
Wind Direction =180.0° E of N
0
500
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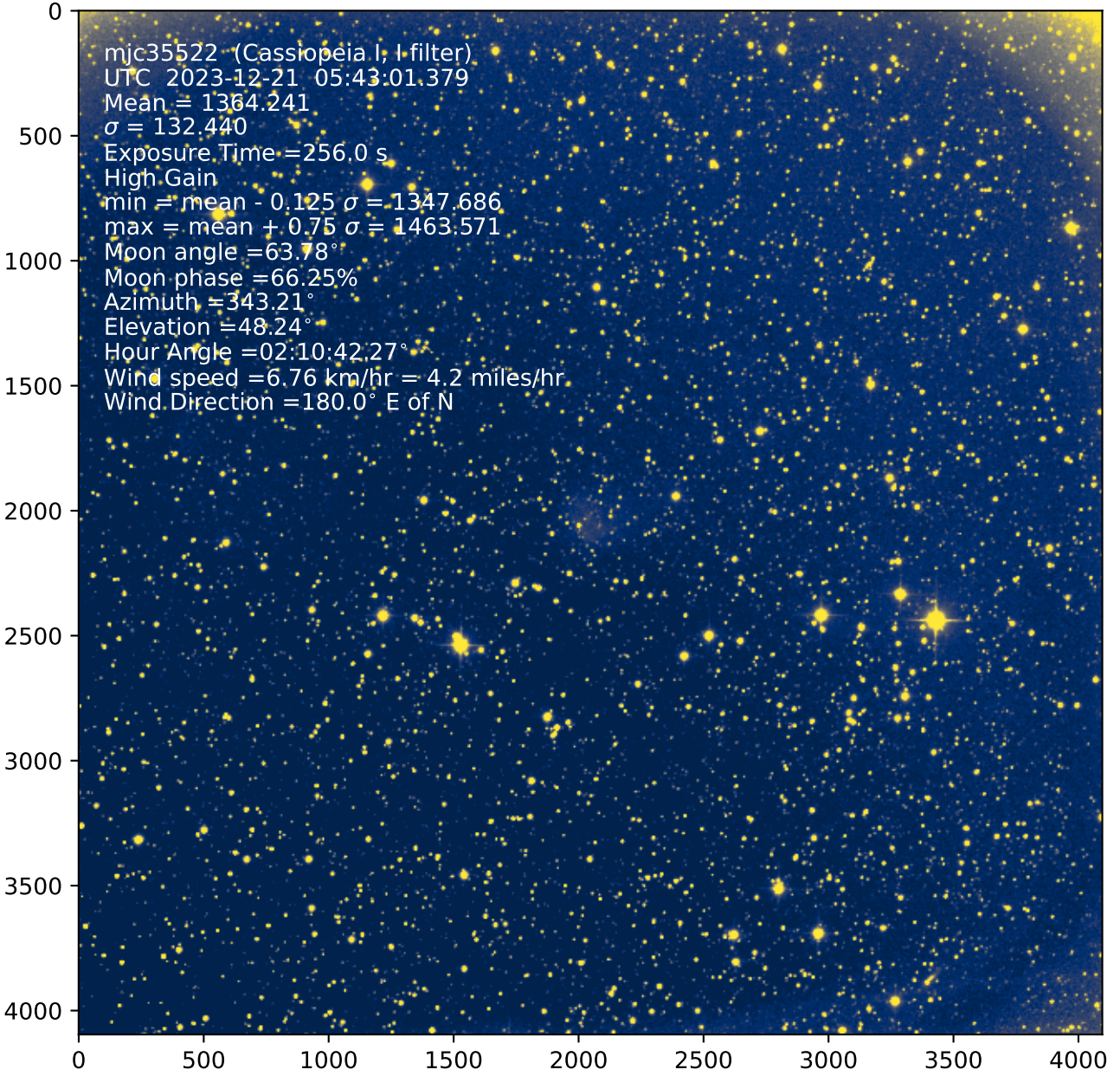
2500
3000
3500
4000


mjc35522 (Cassiopeia I, I-filter)
UTC 2023-12-21 05:43:01.379
Mean = 1364.241
σ = 132.440
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1347.686
max = mean + 0.75 σ = 1463.571
Moon angle =63.78°
Moon phase =66.25%
Azimuth =343.21°
Elevation =48.24°
Hour Angle =02:10:42.27°
Wind speed =6.76 km/hr = 4.2 miles/hr
Wind Direction =180.0° E of N
0
500
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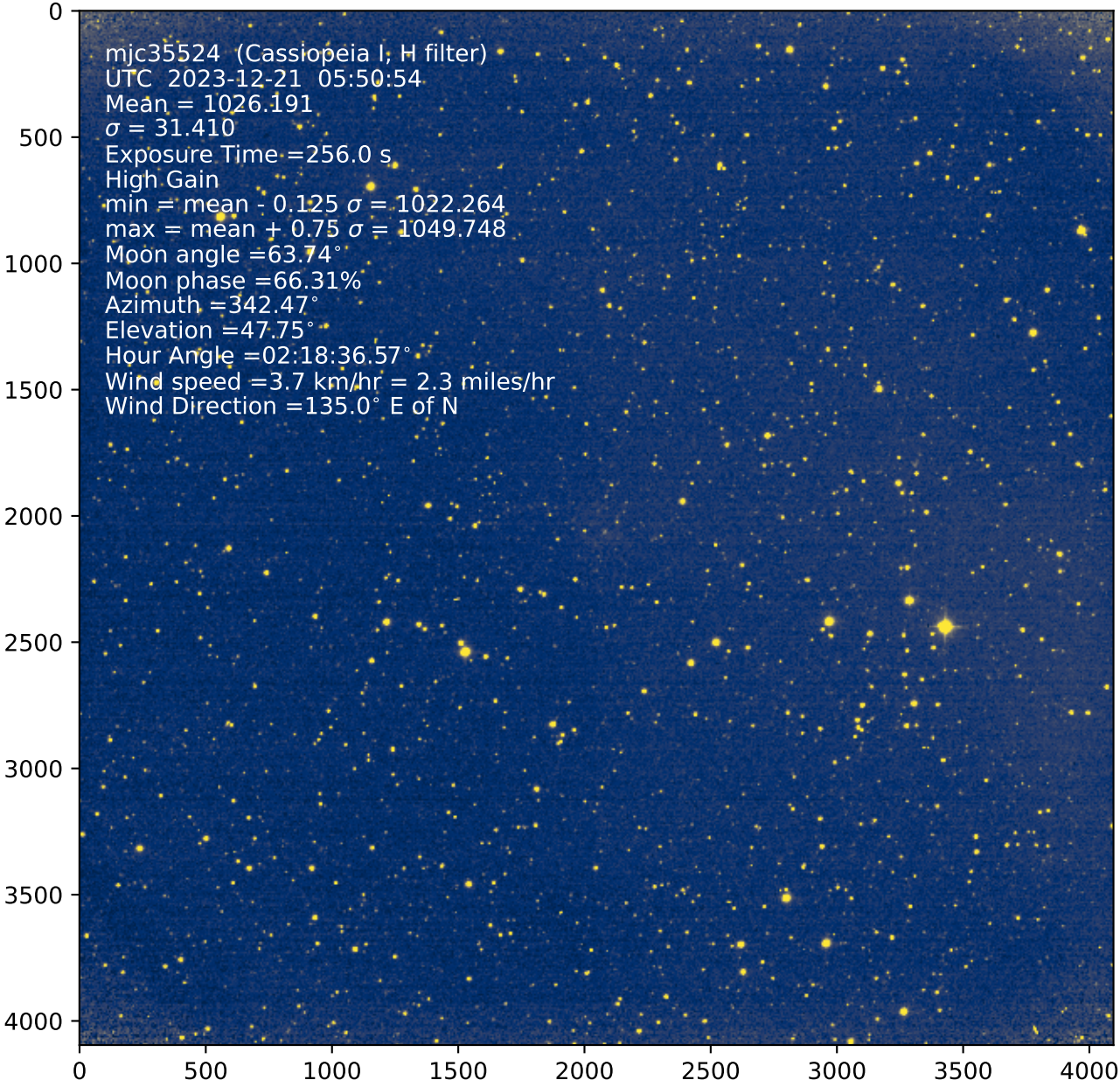
1500
2000
2500
3000
3500
4000


mjc35524 (Cassiopeia I, H filter)
UTC 2023-12-21 05:50:54
Mean = 1026.191
σ = 31.410
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1022.264
max = mean + 0.75 σ = 1049.748
Moon angle =63.74°
Moon phase =66.31%
Azimuth =342.47°
Elevation =47.75°
Hour Angle =02:18:36.57°
Wind speed =3.7 km/hr = 2.3 miles/hr
Wind Direction =135.0° E of N
0
500
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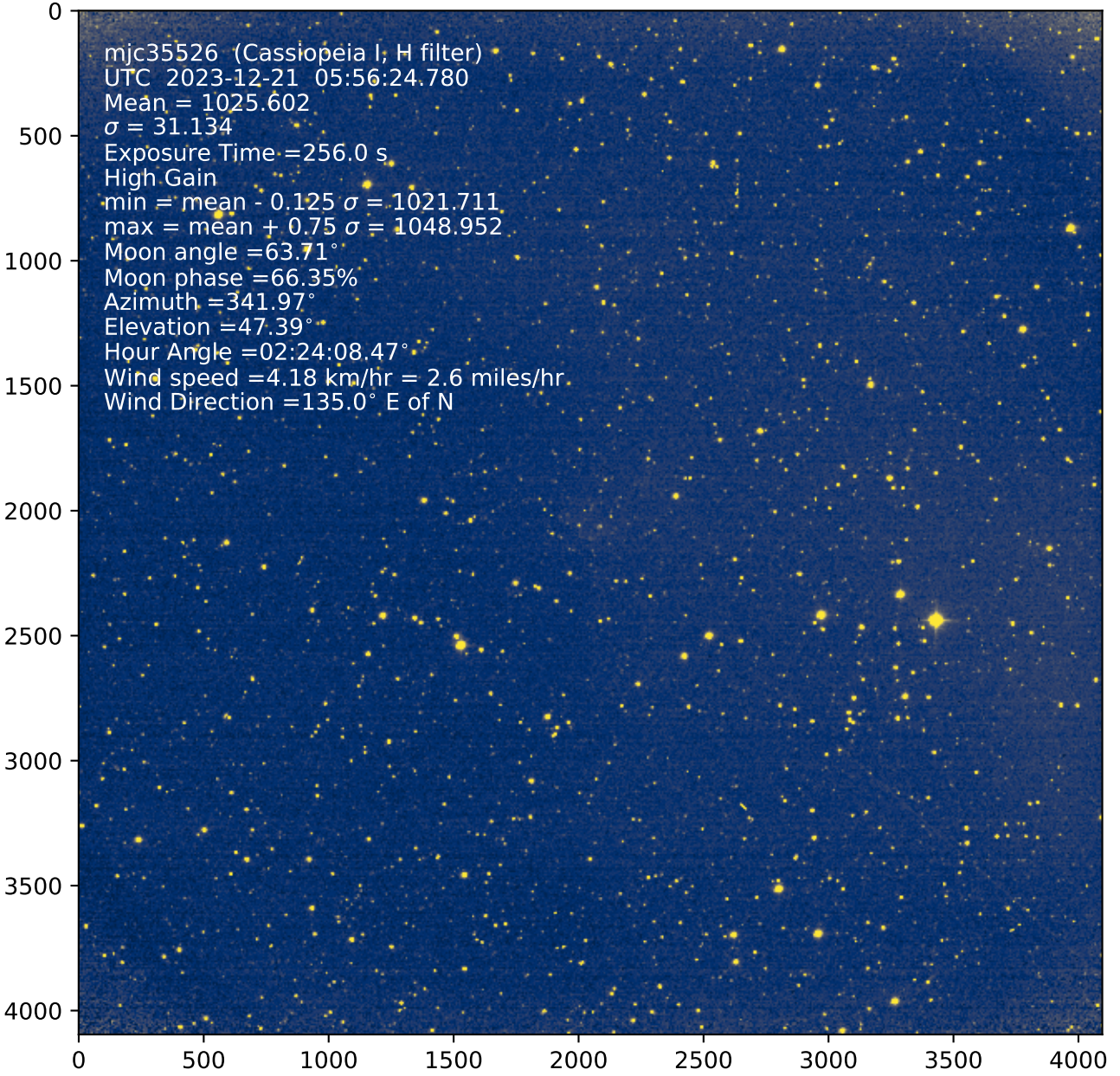
2000
2500
3000
3500
4000


mjc35526 (Cassiopeia I, H filter)
UTC 2023-12-21 05:56:24.780
Mean = 1025.602
σ = 31.134
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1021.711
max = mean + 0.75 σ = 1048.952
Moon angle =63.71°
Moon phase =66.35%
Azimuth =341.97°
Elevation =47.39°
Hour Angle =02:24:08.47°
Wind speed =4.18 km/hr = 2.6 miles/hr
Wind Direction =135.0° E of N
0
500
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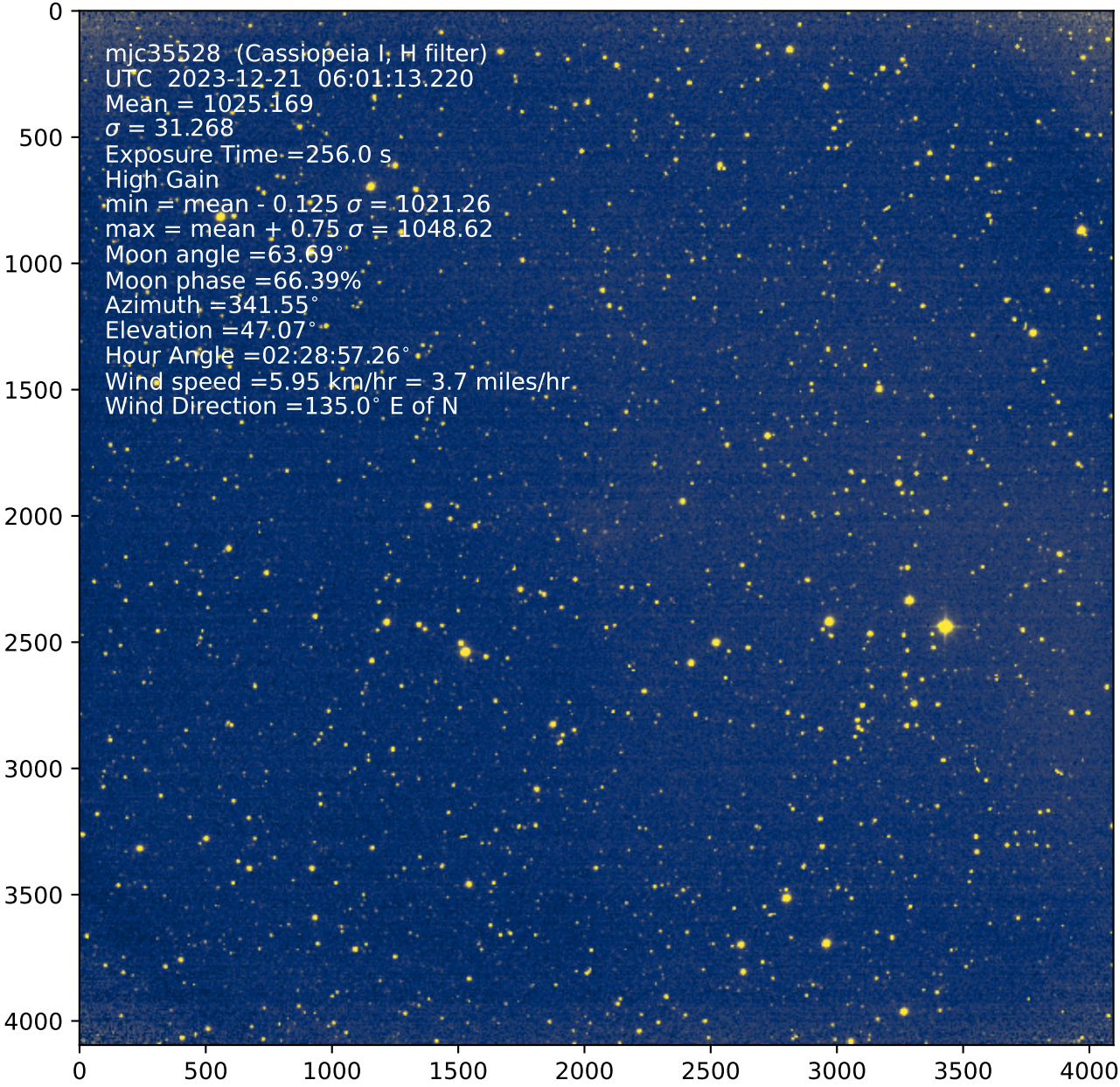
2000
2500
3000
3500
4000


mjc35528 (Cassiopeia I, H filter)
UTC 2023-12-21 06:01:13.220
Mean = 1025.169
σ = 31.268
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1021.26
max = mean + 0.75 σ = 1048.62
Moon angle =63.69°
Moon phase =66.39%
Azimuth =341.55°
Elevation =47.07°
Hour Angle =02:28:57.26°
Wind speed =5.95 km/hr = 3.7 miles/hr
Wind Direction =135.0° E of N
0
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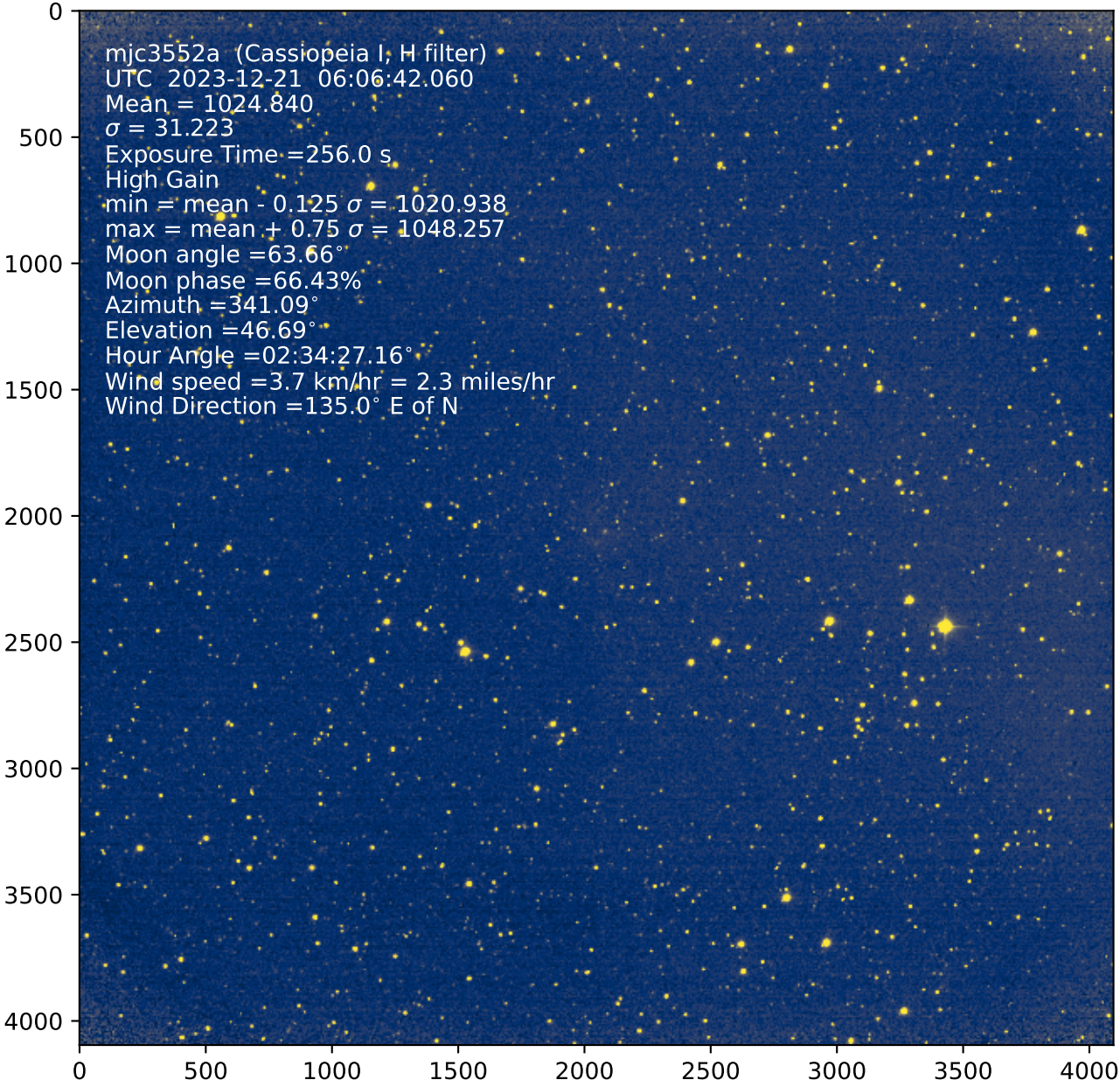
2000
2500
3000
3500
4000


mjc3552a (Cassiopeia I, H filter)
UTC 2023-12-21 06:06:42.060
Mean = 1024.840
σ = 31.223
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1020.938
max = mean + 0.75 σ = 1048.257
Moon angle =63.66°
Moon phase =66.43%
Azimuth =341.09°
Elevation =46.69°
Hour Angle =02:34:27.16°
Wind speed =3.7 km/hr = 2.3 miles/hr
Wind Direction =135.0° E of N
0
500
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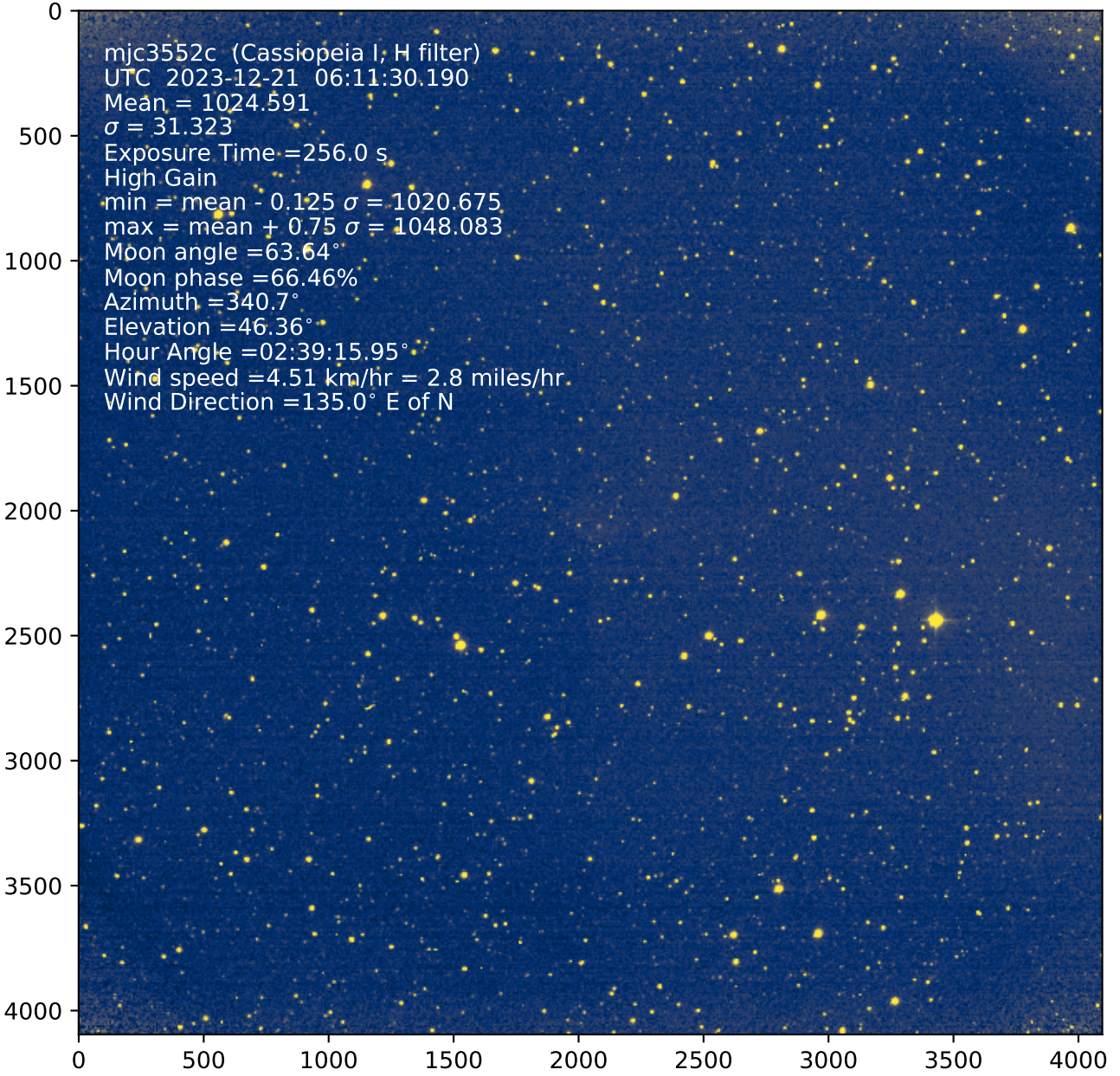
1500
2000
2500
3000
3500
4000


mjc3552c (Cassiopeia I, H filter)
UTC 2023-12-21 06:11:30.190
Mean = 1024.591
σ = 31.323
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1020.675
max = mean + 0.75 σ = 1048.083
Moon angle =63.64°
Moon phase =66.46%
Azimuth =340.7°
Elevation =46.36°
Hour Angle =02:39:15.95°
Wind speed =4.51 km/hr = 2.8 miles/hr
Wind Direction =135.0° E of N
0
500
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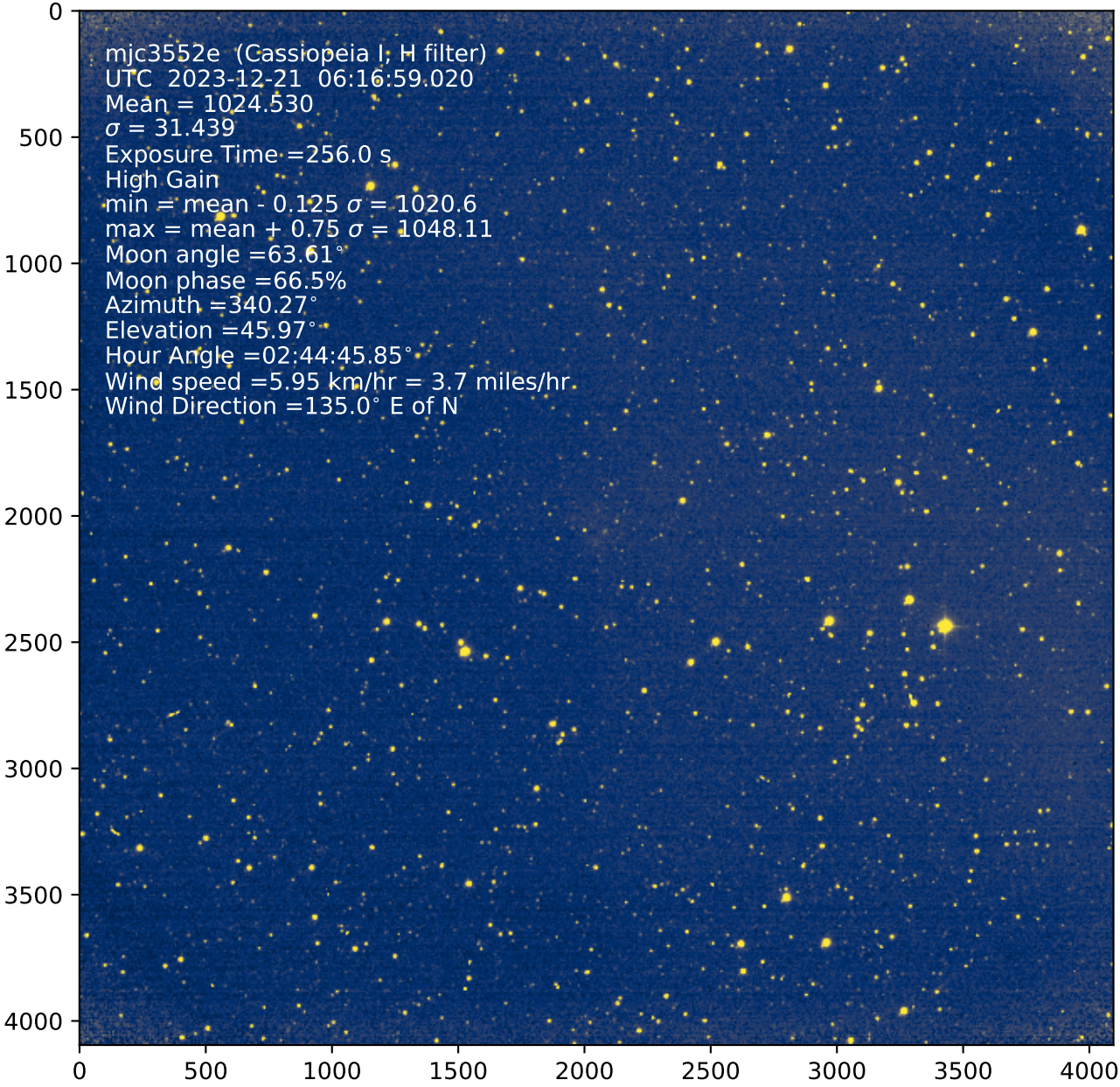
2000
2500
3000
3500
4000


mjc3552e (Cassiopeia I, H filter)
UTC 2023-12-21 06:16:59.020
Mean = 1024.530
σ = 31.439
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1020.6
max = mean + 0.75 σ = 1048.11
Moon angle =63.61°
Moon phase =66.5%
Azimuth =340.27°
Elevation =45.97°
Hour Angle =02:44:45.85°
Wind speed =5.95 km/hr = 3.7 miles/hr
Wind Direction =135.0° E of N
0
500
1000
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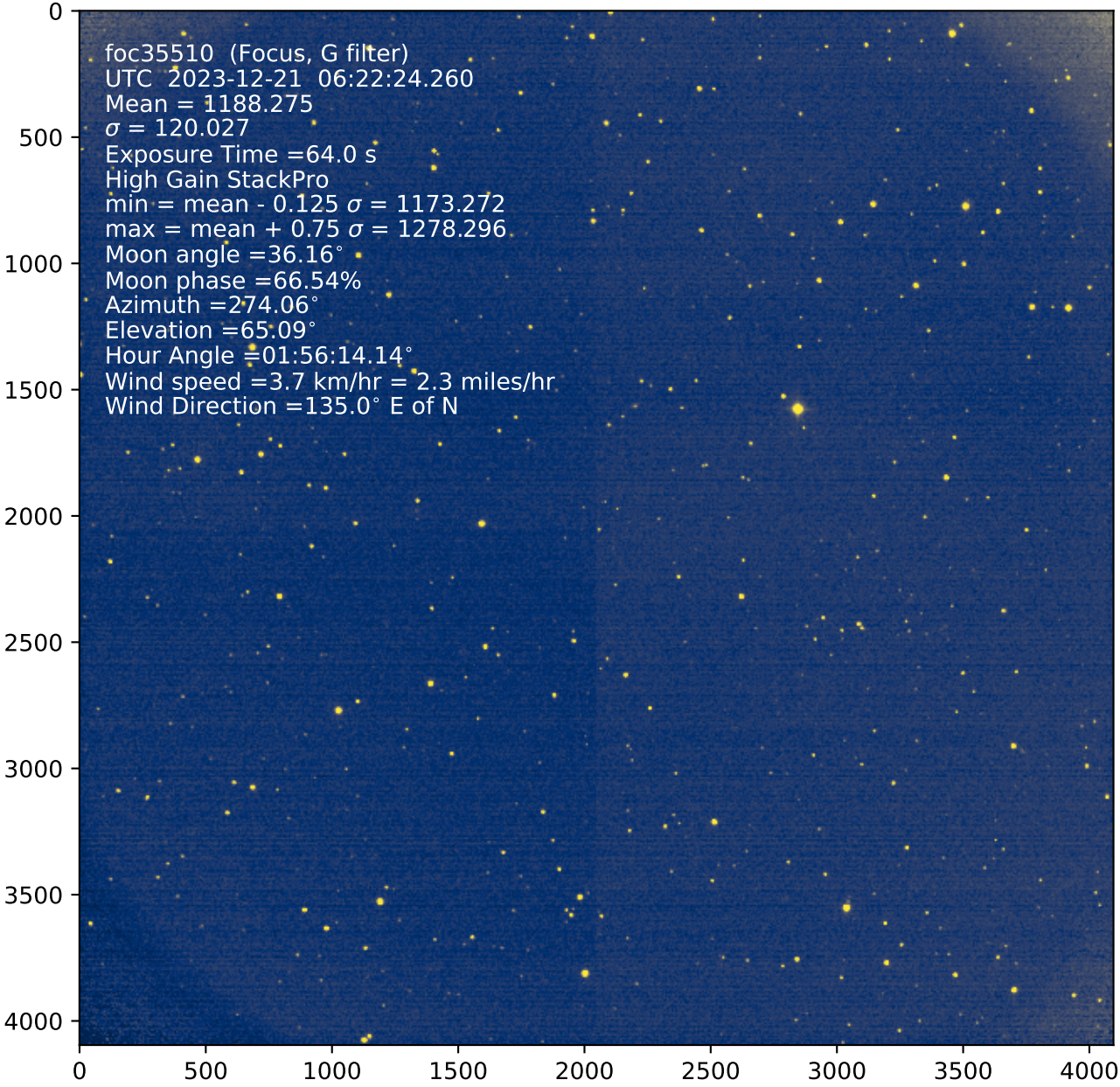
2000
2500
3000
3500
4000


foc35510 (Focus, G filter)
UTC 2023-12-21 06:22:24.260
Mean = 1188.275
σ = 120.027
Exposure Time =64.0 s
High Gain StackPro
min = mean - 0.125 σ = 1173.272
max = mean + 0.75 σ = 1278.296
Moon angle =36.16°
Moon phase =66.54%
Azimuth =274.06°
Elevation =65.09°
Hour Angle =01:56:14.14°
Wind speed =3.7 km/hr = 2.3 miles/hr
Wind Direction =135.0° E of N
0
500
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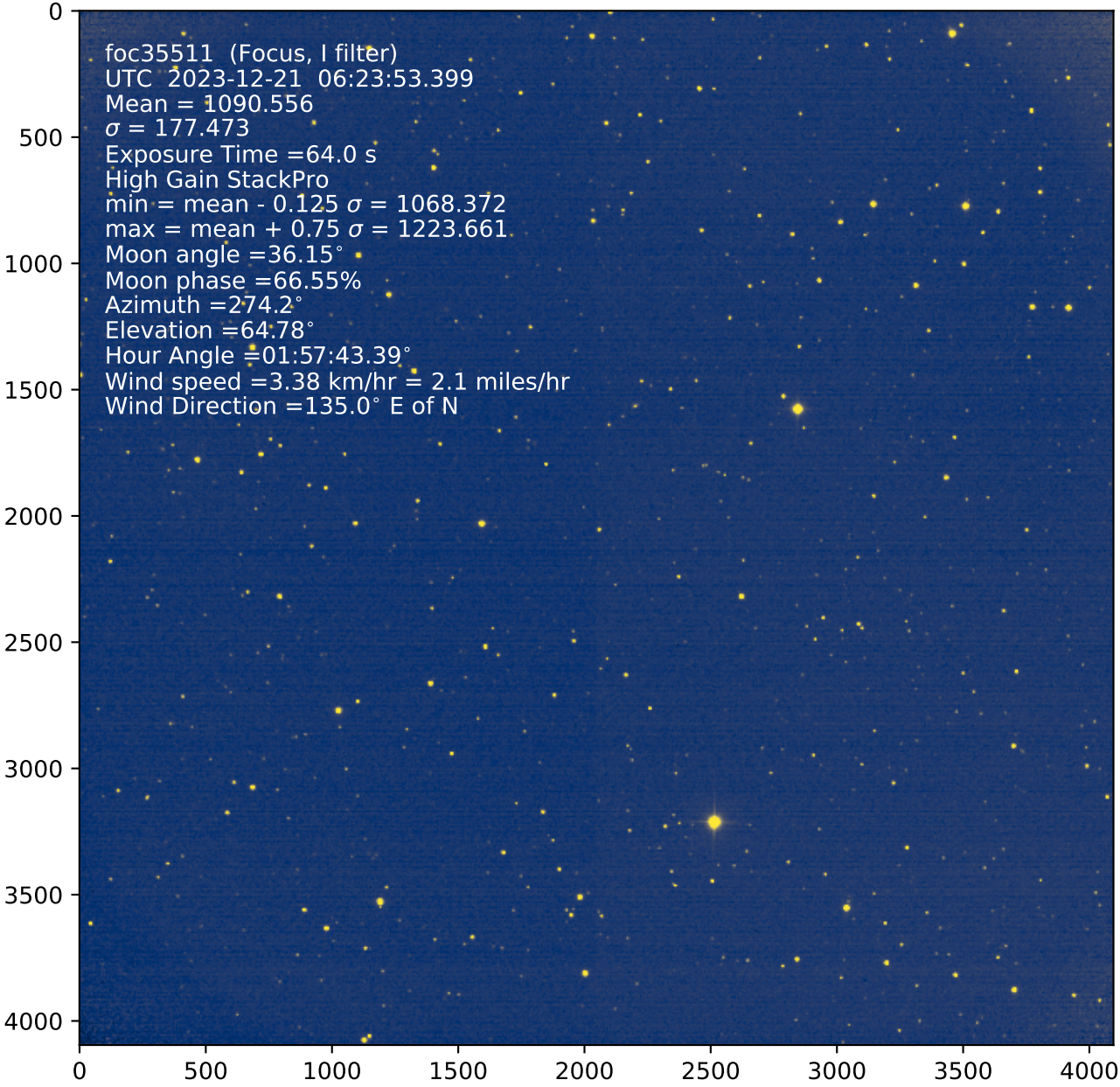
2000
2500
3000
3500
4000


foc35511 (Focus, I filter)
UTC 2023-12-21 06:23:53.399
Mean = 1090.556
σ = 177.473
Exposure Time =64.0 s
High Gain StackPro
min = mean - 0.125 σ = 1068.372
max = mean + 0.75 σ = 1223.661
Moon angle =36.15°
Moon phase =66.55%
Azimuth =274.2°
Elevation =64.78°
Hour Angle =01:57:43.39°
Wind speed =3.38 km/hr = 2.1 miles/hr
Wind Direction =135.0° E of N
0
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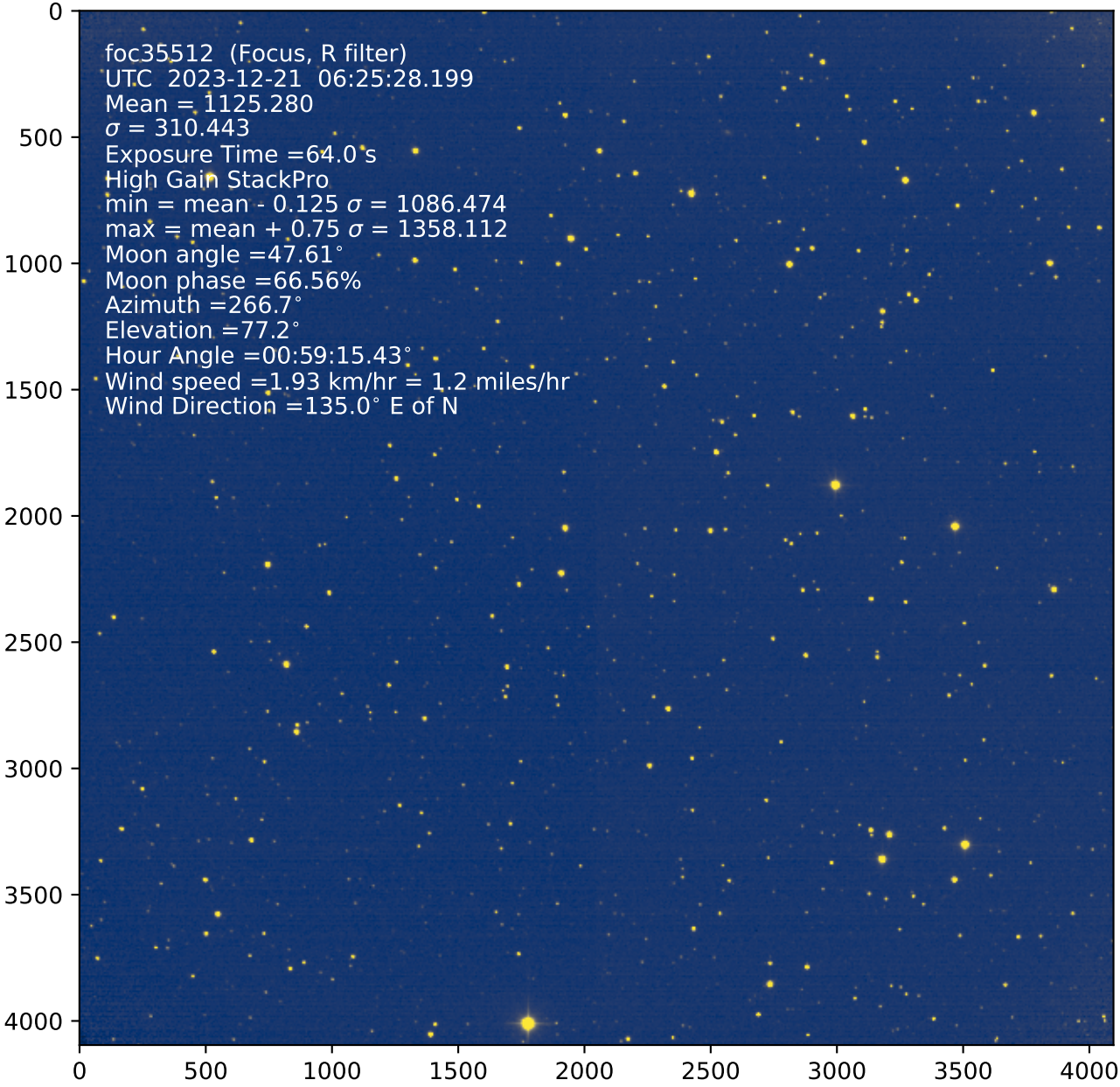
3500
4000


foc35512 (Focus, R filter)
UTC 2023-12-21 06:25:28.199
Mean = 1125.280
σ = 310.443
Exposure Time =64.0 s
High Gain StackPro
min = mean - 0.125 σ = 1086.474
max = mean + 0.75 σ = 1358.112
Moon angle =47.61°
Moon phase =66.56%
Azimuth =266.7°
Elevation =77.2°
Hour Angle =00:59:15.43°
Wind speed =1.93 km/hr = 1.2 miles/hr
Wind Direction =135.0° E of N
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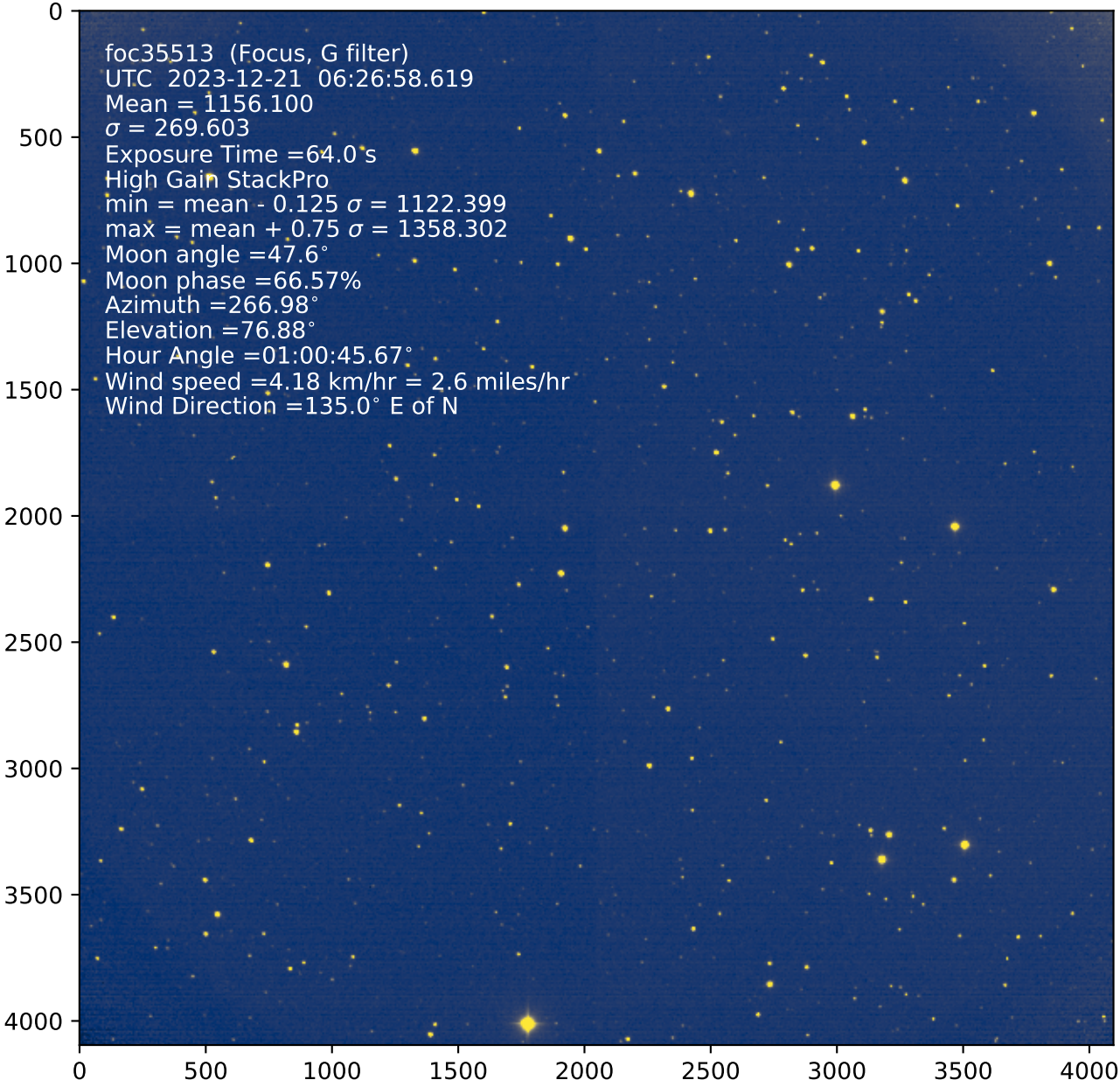
3500
4000


foc35513 (Focus, G filter)
UTC 2023-12-21 06:26:58.619
Mean = 1156.100
σ = 269.603
Exposure Time =64.0˚s
High Gain StackPro
min = mean - 0.125 σ = 1122.399
max = mean + 0.75 σ = 1358.302
Moon angle =47.6˚
Moon phase =66.57%
Azimuth =266.98˚
Elevation =76.88˚
Hour Angle =01:00:45.67˚
Wind speed =4.18 km/hr = 2.6 miles/hr
Wind Direction =135.0˚ E of N
0
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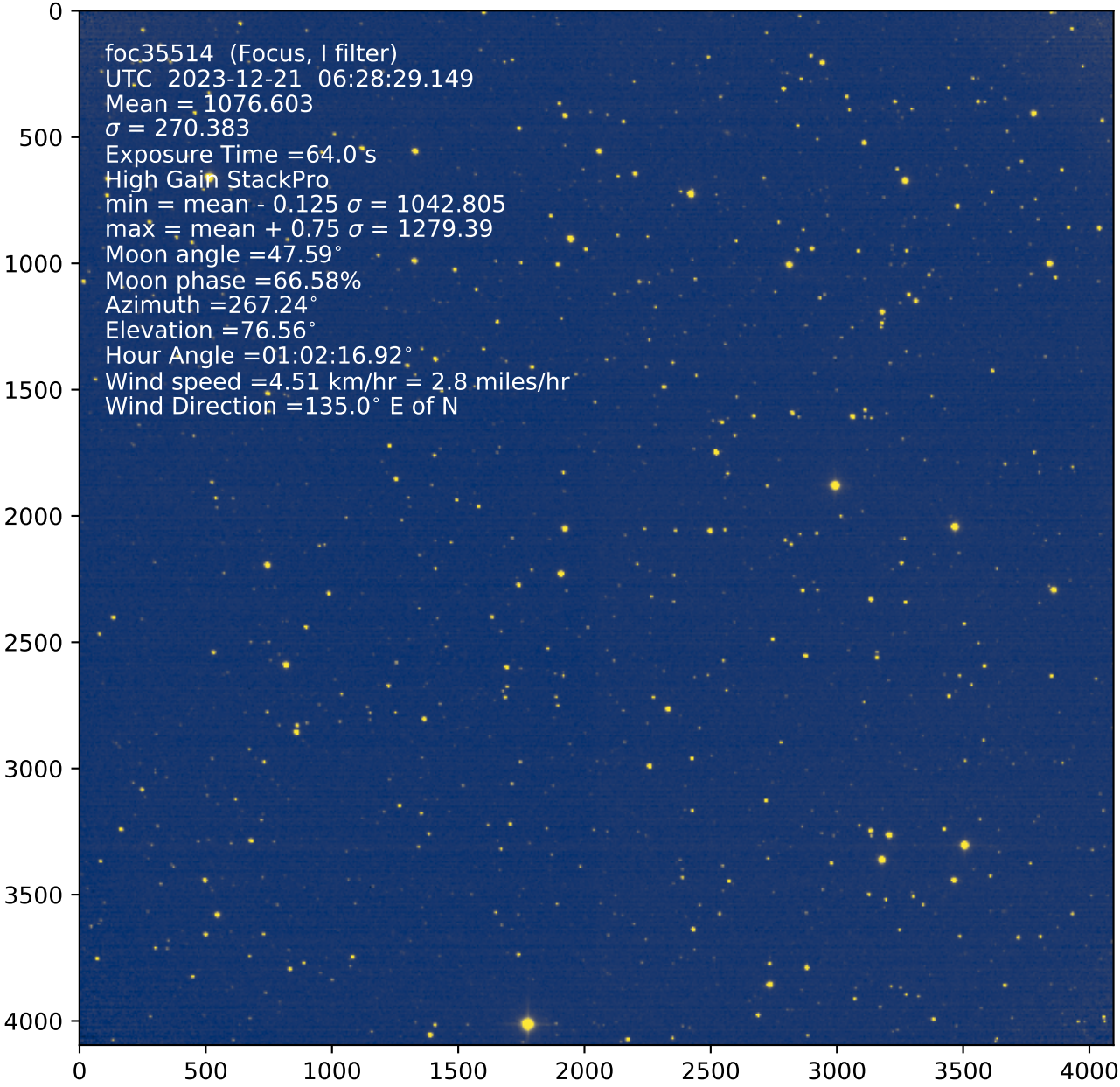
3500
4000


foc35514 (Focus, I filter)
UTC 2023-12-21 06:28:29.149
Mean = 1076.603
σ = 270.383
Exposure Time =64.0 s
High Gain StackPro
min = mean - 0.125 σ = 1042.805
max = mean + 0.75 σ = 1279.39
Moon angle =47.59°
Moon phase =66.58%
Azimuth =267.24°
Elevation =76.56°
Hour Angle =01:02:16.92°
Wind speed =4.51 km/hr = 2.8 miles/hr
Wind Direction =135.0° E of N
0
500
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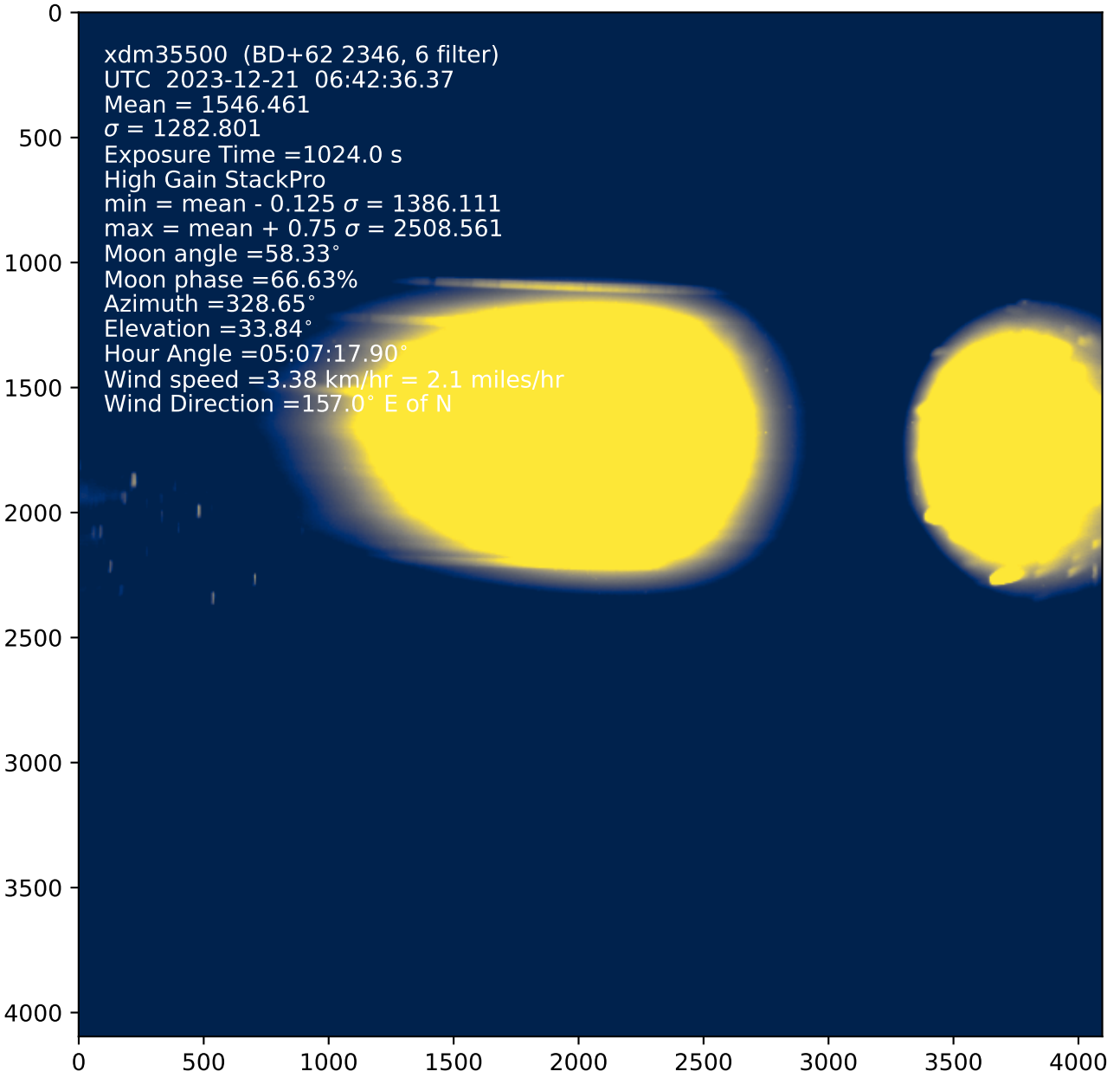
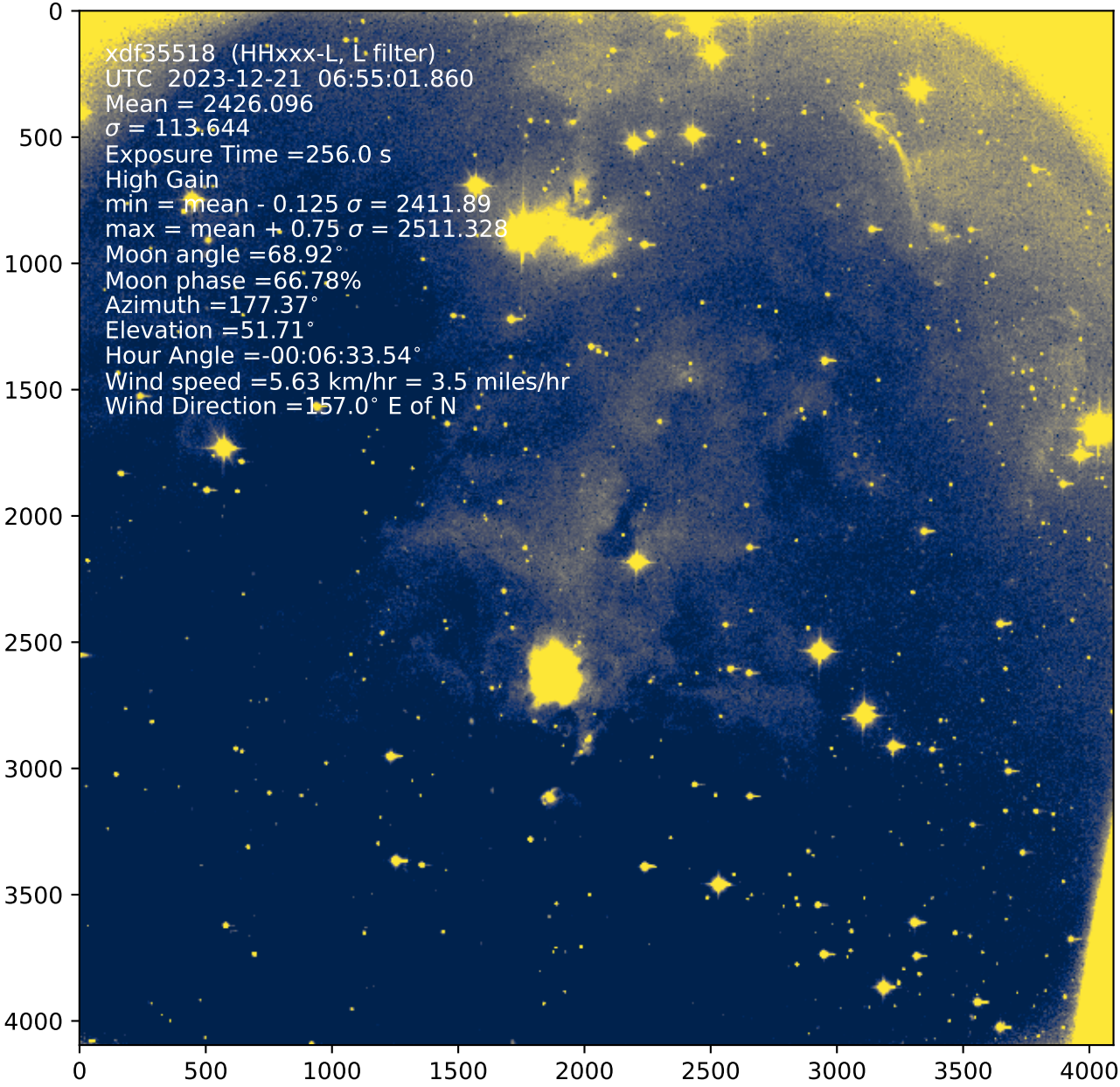
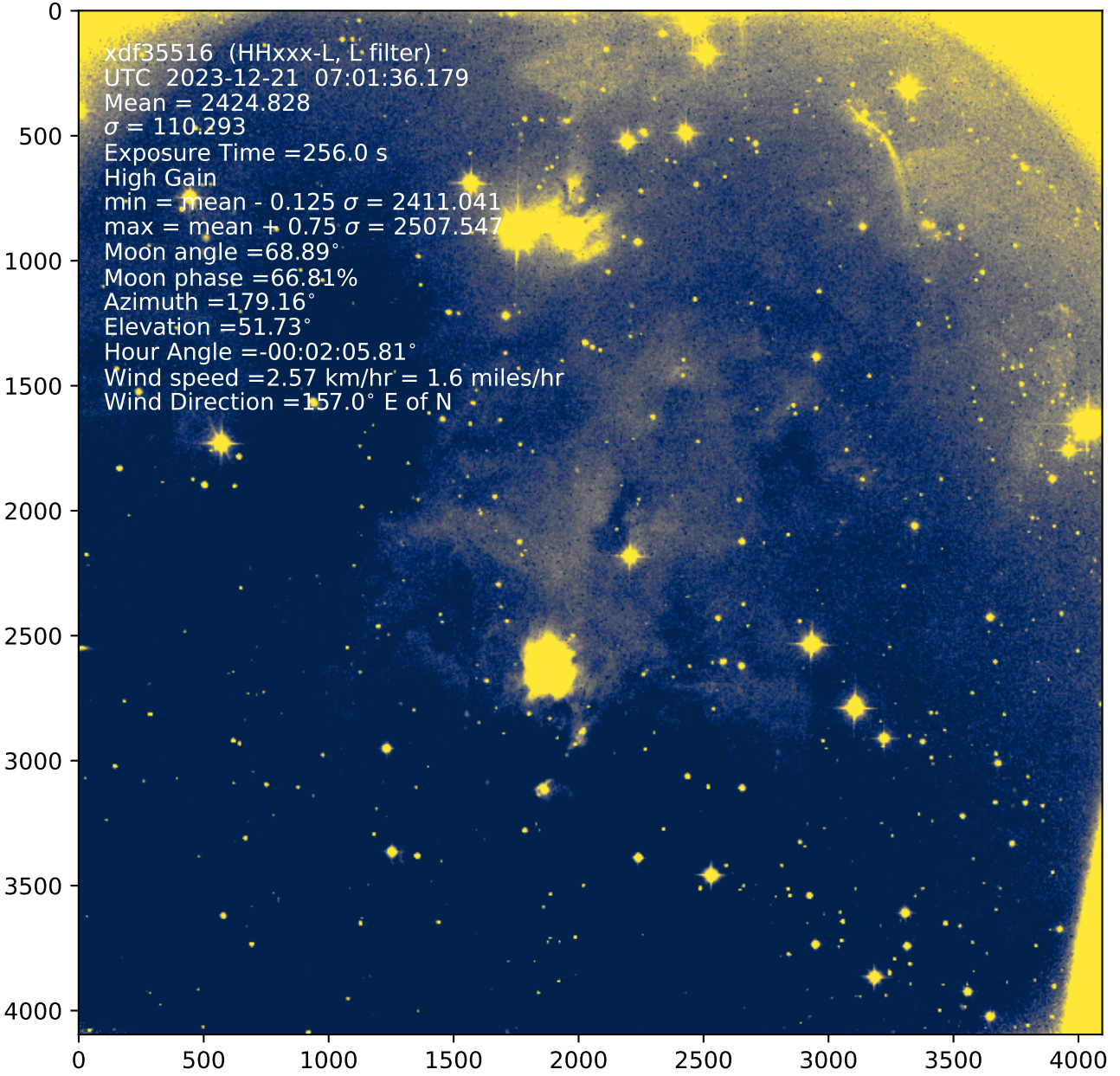
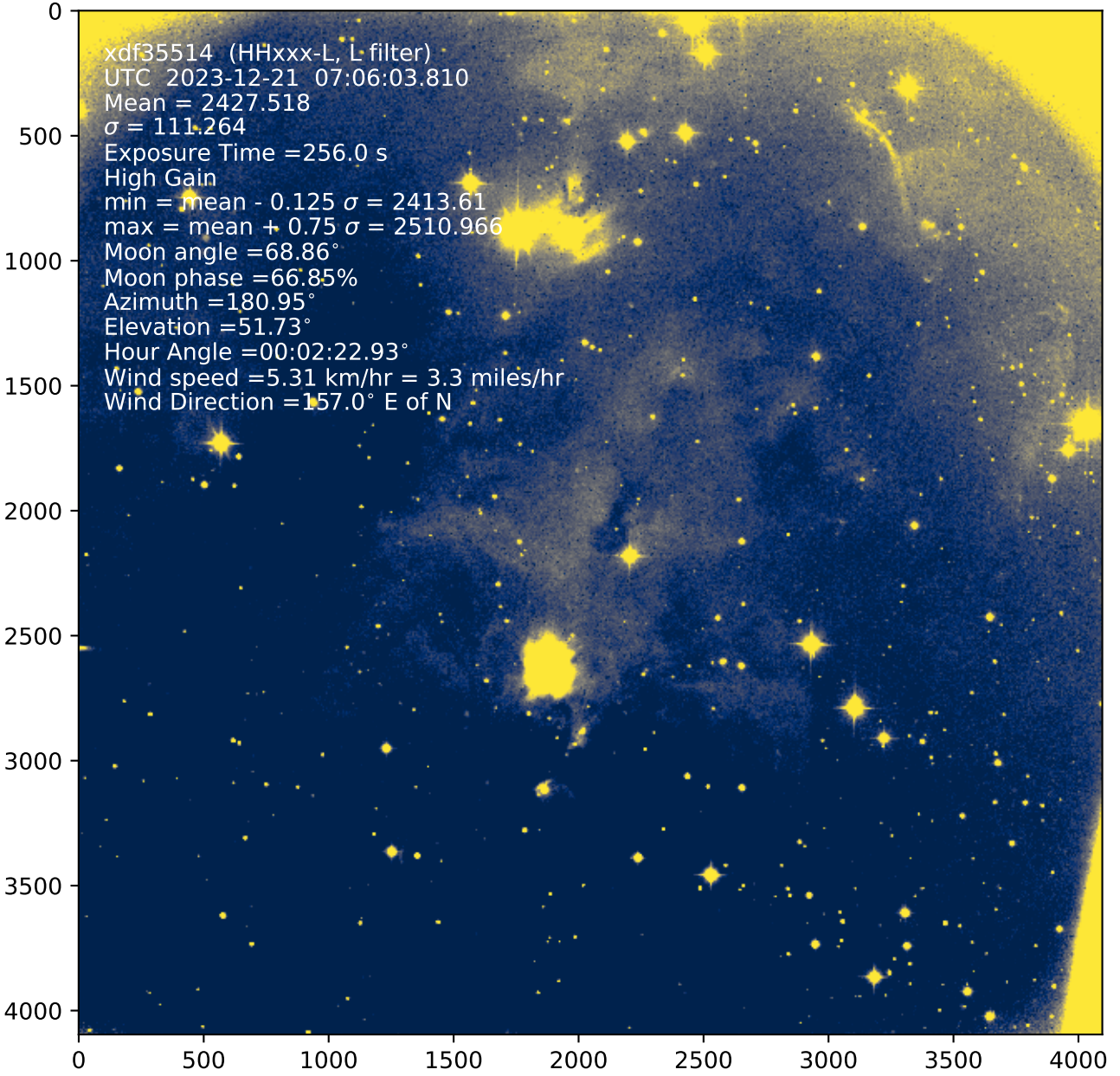
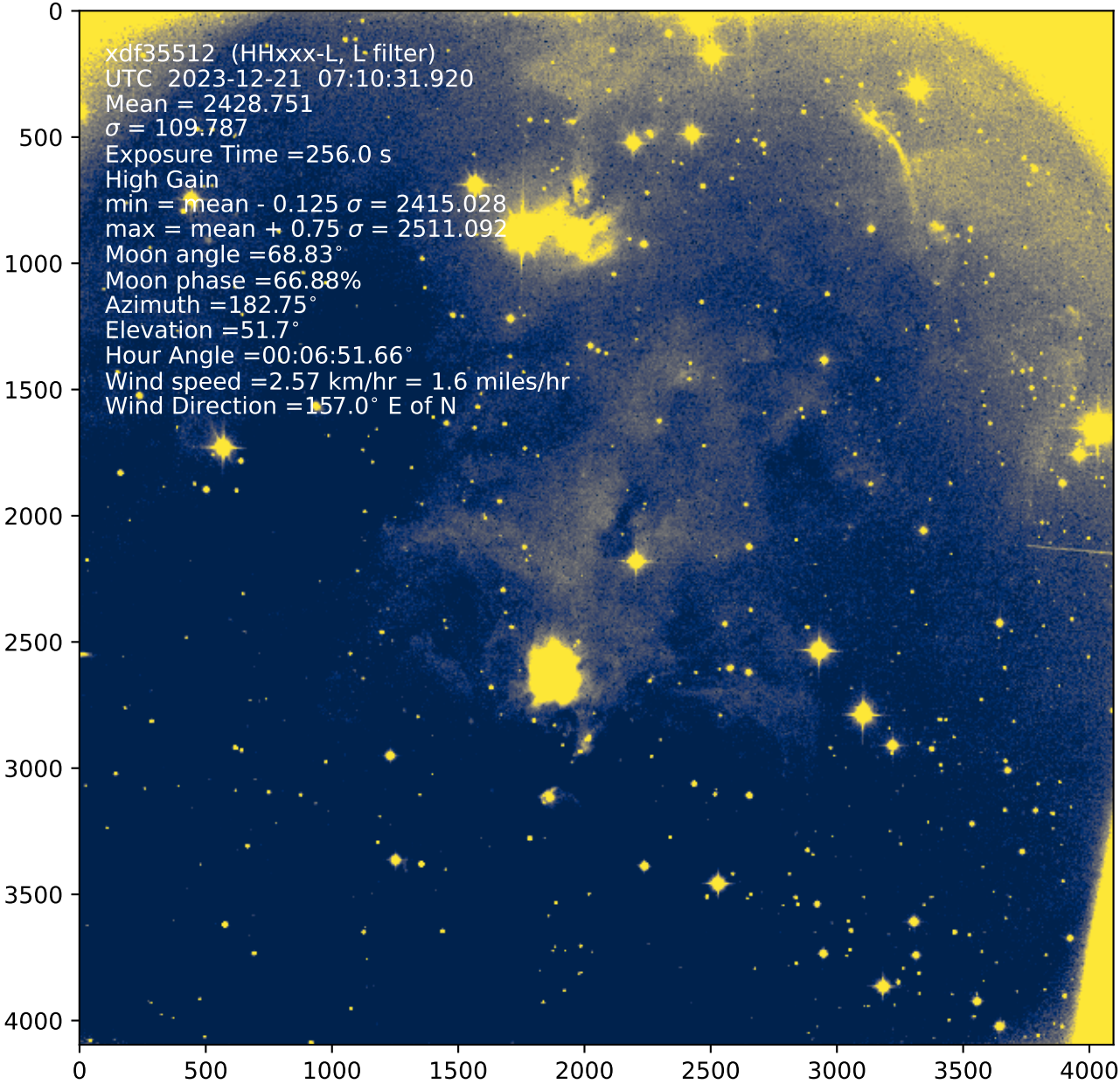
3500
4000

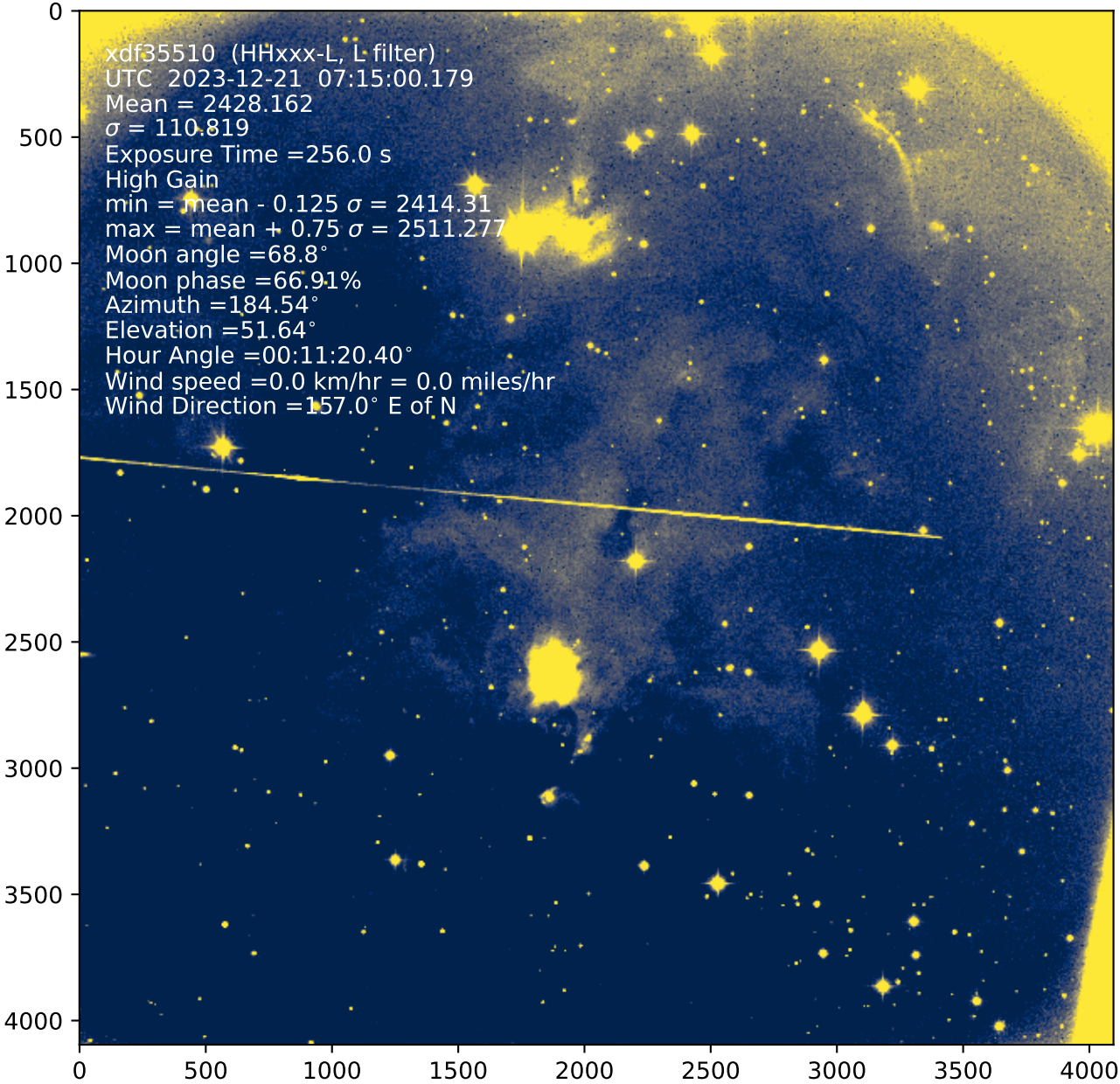

xdm35500 (BD+62 2346, 6 filter)
UTC 2023-12-21 06:42:36.37
Mean = 1546.461
σ = 1282.801
Exposure Time =1024.0 s
High Gain StackPro
min = mean - 0.125 σ = 1386.111
max = mean + 0.75 σ = 2508.561
Moon angle =58.33°
Moon phase =66.63%
Azimuth =328.65°
Elevation =33.84°
Hour Angle =05:07:17.90°
Wind speed =3.38 km/hr = 2.1 miles/hr
Wind Direction =157.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000

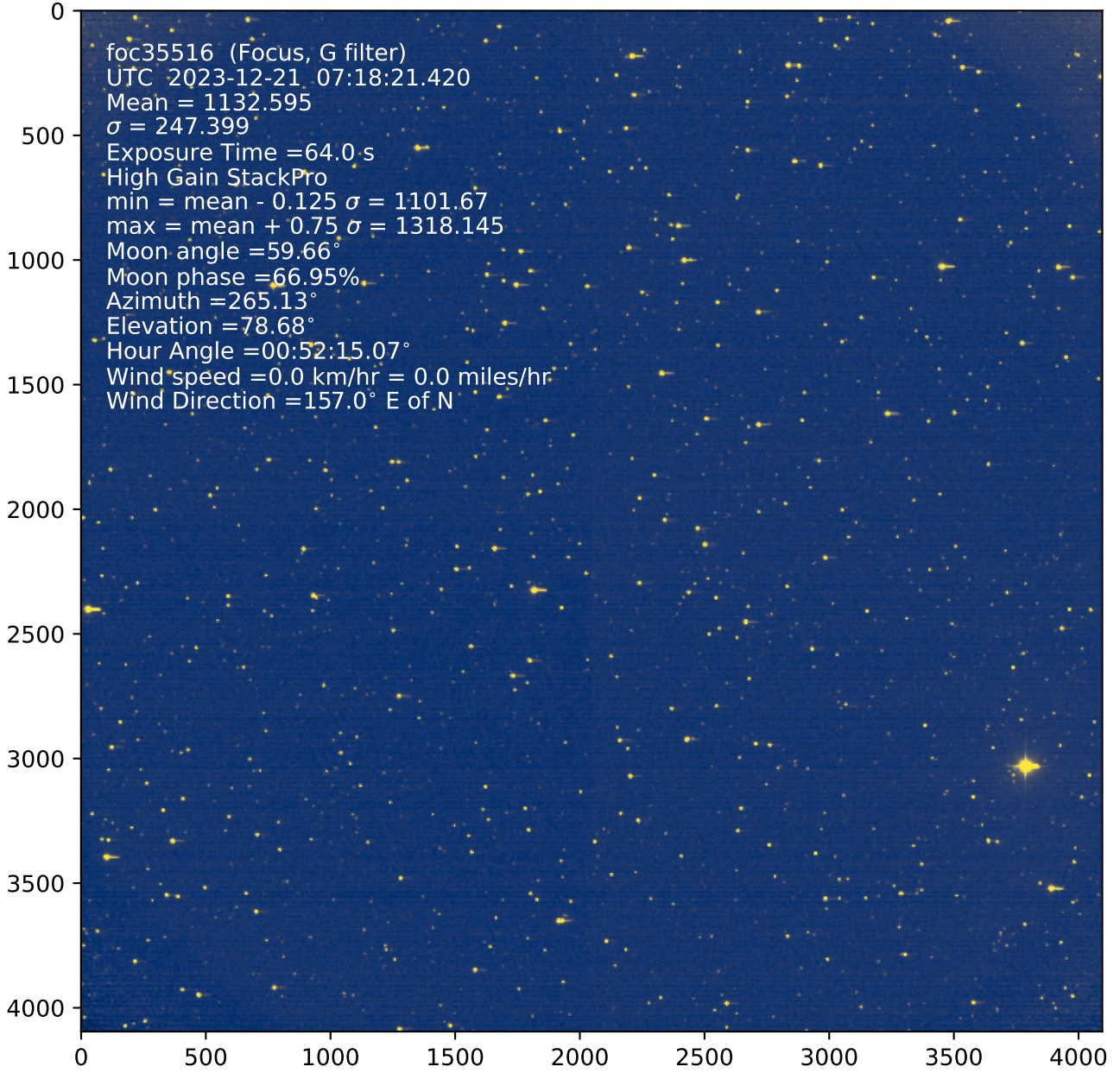

xdf35518 (HHxxx-L, L filter)
UTC 2023-12-21 06:55:01.860
Mean = 2426.096
σ = 113.644
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 2411.89
max = mean + 0.75 σ = 2511.328
Moon angle =68.92°
Moon phase =66.78%
Azimuth =177.37°
Elevation =51.71°
Hour Angle =-00:06:33.54°
Wind speed =5.63 km/hr = 3.5 miles/hr
Wind Direction =157.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


xdf35516 (HHxxx-L, L filter)
UTC 2023-12-21 07:01:36.179
Mean = 2424.828
σ = 110.293
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 2411.041
max = mean + 0.75 σ = 2507.547
Moon angle =68.89°
Moon phase =66.81%
Azimuth =179.16°
Elevation =51.73°
Hour Angle =-00:02:05.81°
Wind speed =2.57 km/hr = 1.6 miles/hr
Wind Direction =157.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


xdf35514 (HHxxx-L, L filter)
UTC 2023-12-21 07:06:03.810
Mean = 2427.518
σ = 111.264
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 2413.61
max = mean + 0.75 σ = 2510.966
Moon angle =68.86°
Moon phase =66.85%
Azimuth =180.95°
Elevation =51.73°
Hour Angle =00:02:22.93°
Wind speed =5.31 km/hr = 3.3 miles/hr
Wind Direction =157.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


xdf35512 (HHxxx-L, L filter)
UTC 2023-12-21 07:10:31.920
Mean = 2428.751
σ = 109.787
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 2415.028
max = mean + 0.75 σ = 2511.092
Moon angle =68.83°
Moon phase =66.88%
Azimuth =182.75°
Elevation =51.7°
Hour Angle =00:06:51.66°
Wind speed =2.57 km/hr = 1.6 miles/hr
Wind Direction =157.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


xdf35510 (HHxxx-L, L filter)
UTC 2023-12-21 07:15:00.179
Mean = 2428.162
σ = 110.819
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 2414.31
max = mean + 0.75 σ = 2511.277
Moon angle =68.8°
Moon phase =66.91%
Azimuth =184.54°
Elevation =51.64°
Hour Angle =00:11:20.40°
Wind speed =0.0 km/hr = 0.0 miles/hr
Wind Direction =157.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


foc35516 (Focus, G filter)
UTC 2023-12-21 07:18:21.420
Mean = 1132.595
σ = 247.399
Exposure Time =64.0 s
High Gain StackPro
min = mean - 0.125 σ = 1101.67
max = mean + 0.75 σ = 1318.145
Moon angle =59.66°
Moon phase =66.95%
Azimuth =265.13°
Elevation =78.68°
Hour Angle =00:52:15.07°
Wind speed =0.0 km/hr = 0.0 miles/hr
Wind Direction =157.0° E of N
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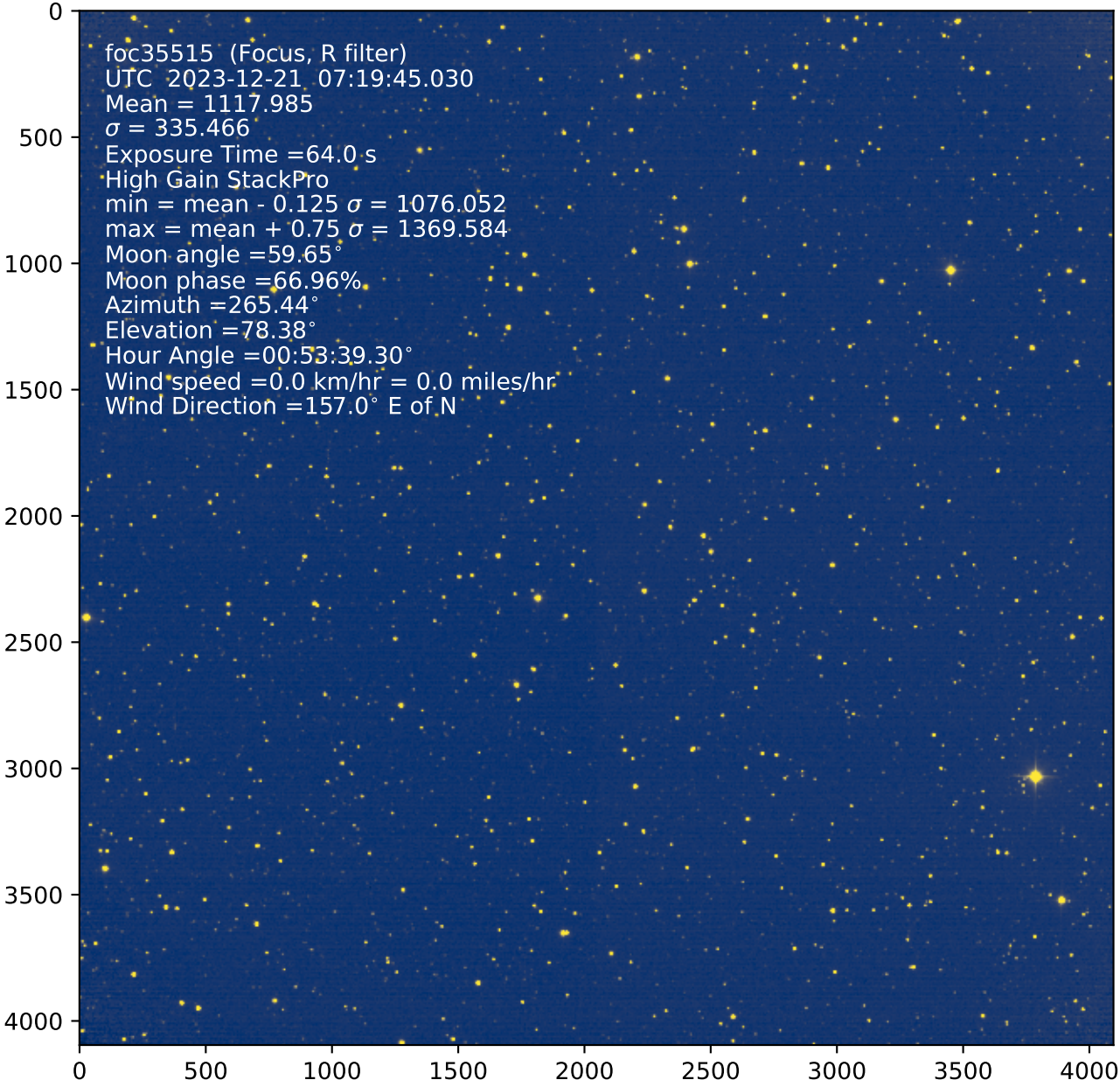
3500
4000


foc35515 (Focus, R filter)
UTC 2023-12-21 07:19:45.030
Mean = 1117.985
σ = 335.466
Exposure Time =64.0 s
High Gain StackPro
min = mean - 0.125 σ = 1076.052
max = mean + 0.75 σ = 1369.584
Moon angle =59.65°
Moon phase =66.96%
Azimuth =265.44°
Elevation =78.38°
Hour Angle =00:53:39.30°
Wind speed =0.0 km/hr = 0.0 miles/hr
Wind Direction =157.0° E of N
0
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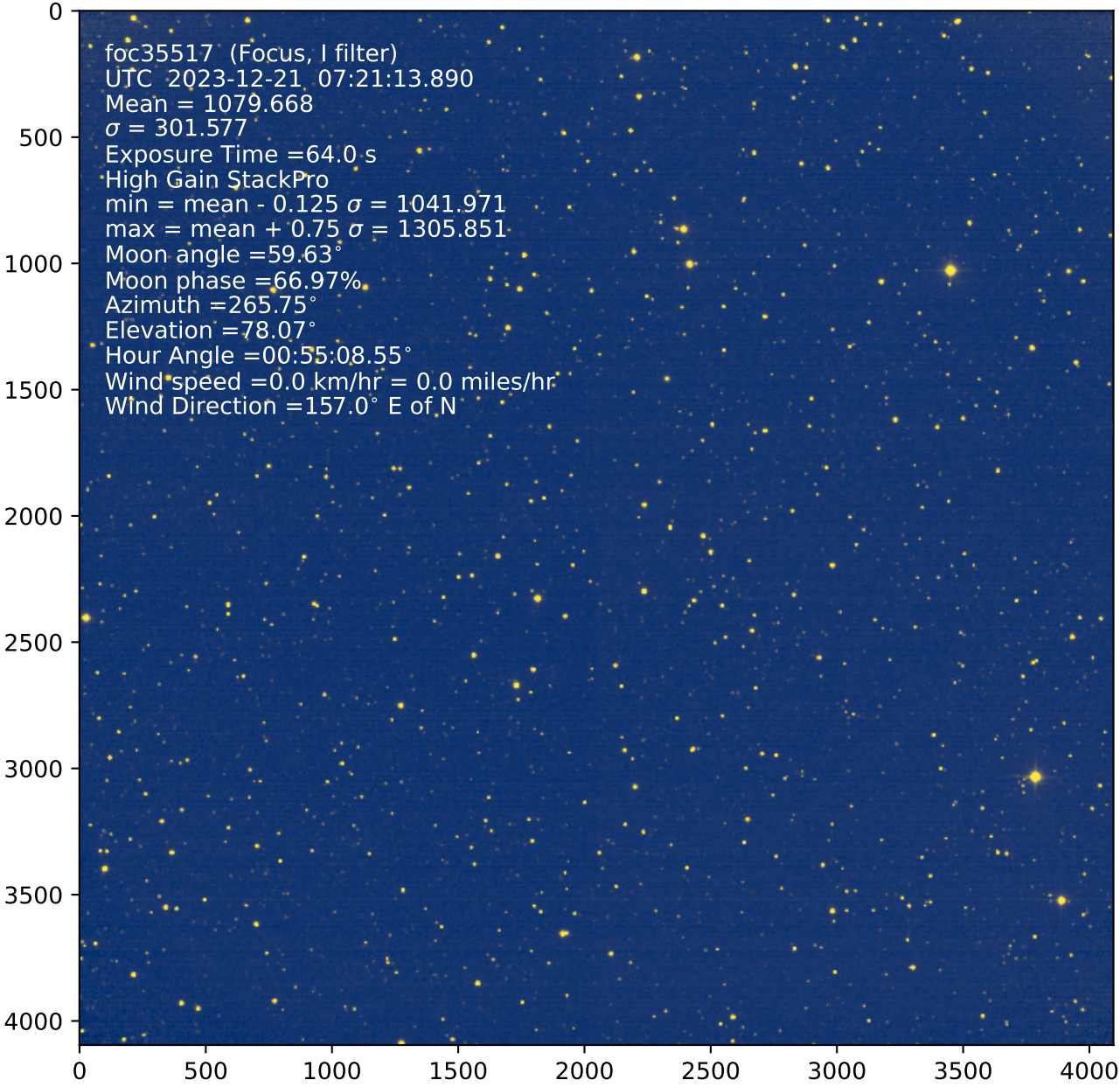
2500
3000
3500
4000


foc35517 (Focus, I filter)
UTC 2023-12-21 07:21:13.890
Mean = 1079.668
σ = 301.577
Exposure Time =64.0 s
High Gain StackPro
min = mean - 0.125 σ = 1041.971
max = mean + 0.75 σ = 1305.851
Moon angle =59.63°
Moon phase =66.97%
Azimuth =265.75°
Elevation =78.07°
Hour Angle =00:55:08.55°
Wind speed =0.0 km/hr = 0.0 miles/hr
Wind Direction =157.0° E of N
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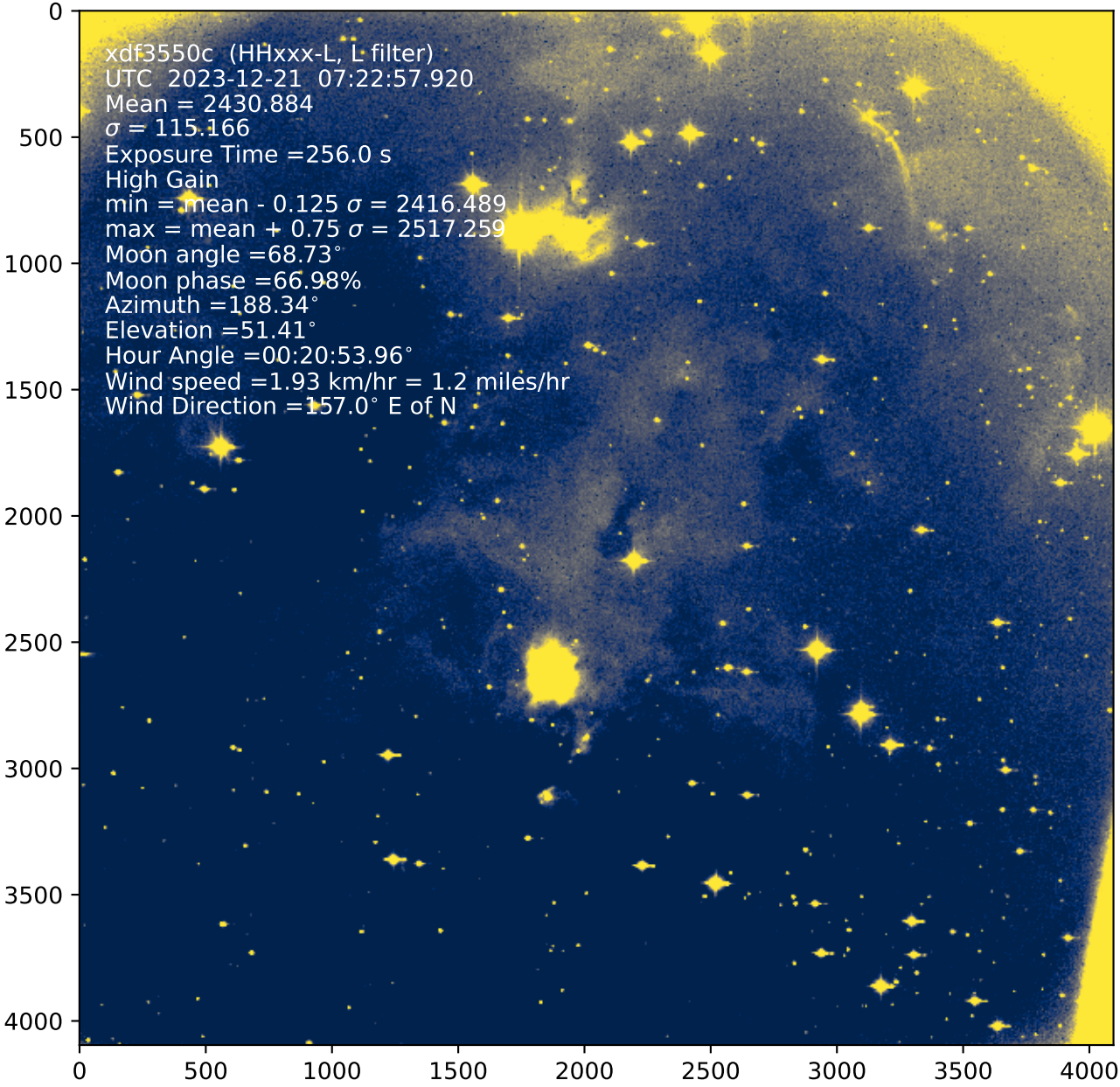
2500
3000
3500
4000


xdf3550c (HHxxx-L, L filter)
UTC 2023-12-21 07:22:57.920
Mean = 2430.884
σ = 115.166
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 2416.489
max = mean + 0.75 σ = 2517.259
Moon angle =68.73°
Moon phase =66.98%
Azimuth =188.34°
Elevation =51.41°
Hour Angle =00:20:53.96°
Wind speed =1.93 km/hr = 1.2 miles/hr
Wind Direction =157.0° E of N
0
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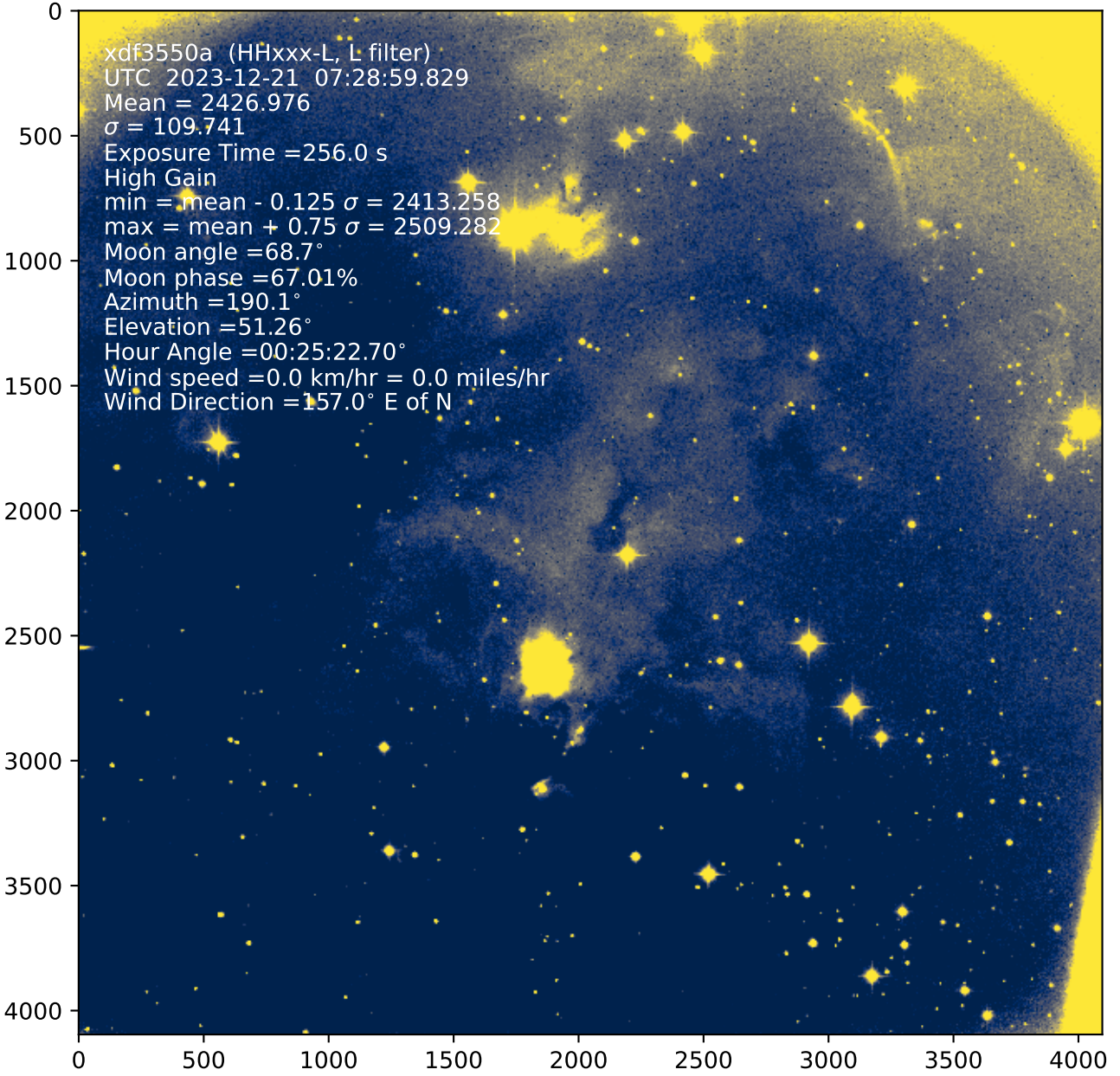
3000
3500
4000


xdf3550a (HHxxx-L, L filter)
UTC 2023-12-21 07:28:59.829
Mean = 2426.976
σ = 109.741
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 2413.258
max = mean + 0.75 σ = 2509.282
Moon angle =68.7°
Moon phase =67.01%
Azimuth =190.1°
Elevation =51.26°
Hour Angle =00:25:22.70°
Wind speed =0.0 km/hr = 0.0 miles/hr
Wind Direction =157.0° E of N
0
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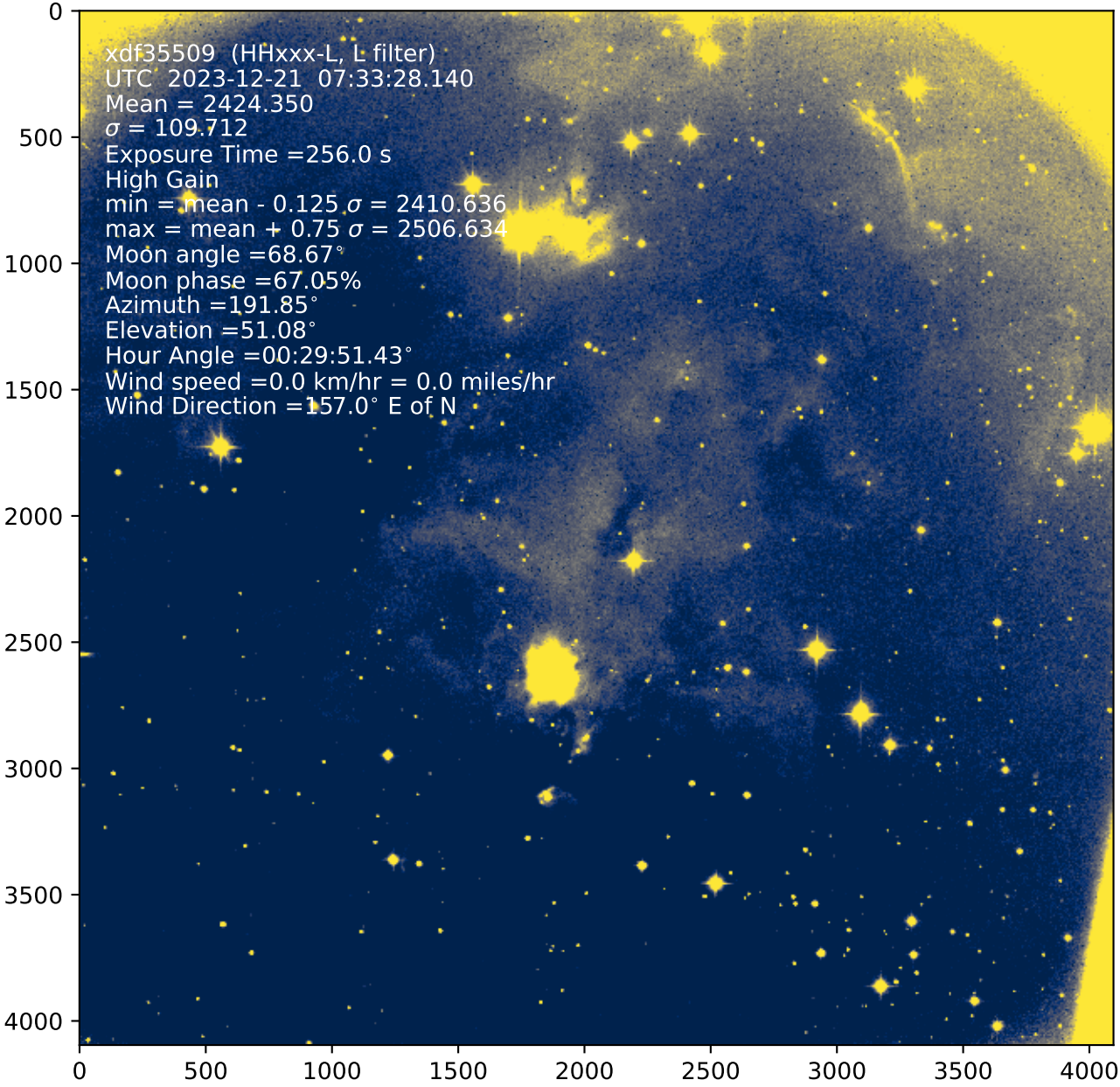
3000
3500
4000


xdf35509 (HHxxx-L, L filter)
UTC 2023-12-21 07:33:28.140
Mean = 2424.350
σ = 109.712
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 2410.636
max = mean + 0.75 σ = 2506.634
Moon angle =68.67°
Moon phase =67.05%
Azimuth =191.85°
Elevation =51.08°
Hour Angle =00:29:51.43°
Wind speed =0.0 km/hr = 0.0 miles/hr
Wind Direction =157.0° E of N
0
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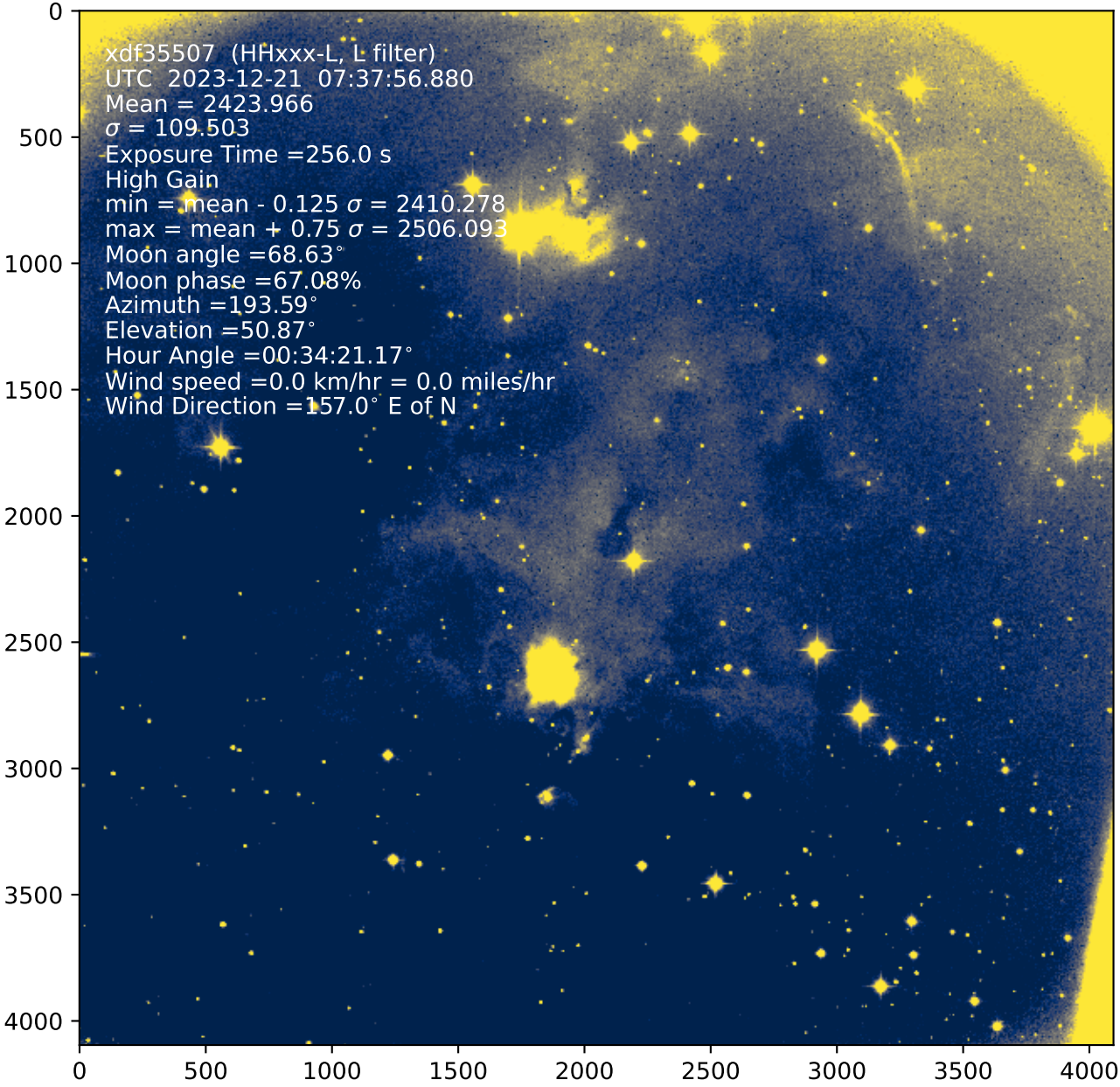
2500
3000
3500
4000


xdf35507 (HHxxx-L, L filter)
UTC 2023-12-21 07:37:56.880
Mean = 2423.966
σ = 109.503
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 2410.278
max = mean + 0.75 σ = 2506.093
Moon angle =68.63°
Moon phase =67.08%
Azimuth =193.59°
Elevation =50.87°
Hour Angle =00:34:21.17°
Wind speed =0.0 km/hr = 0.0 miles/hr
Wind Direction =157.0° E of N
0
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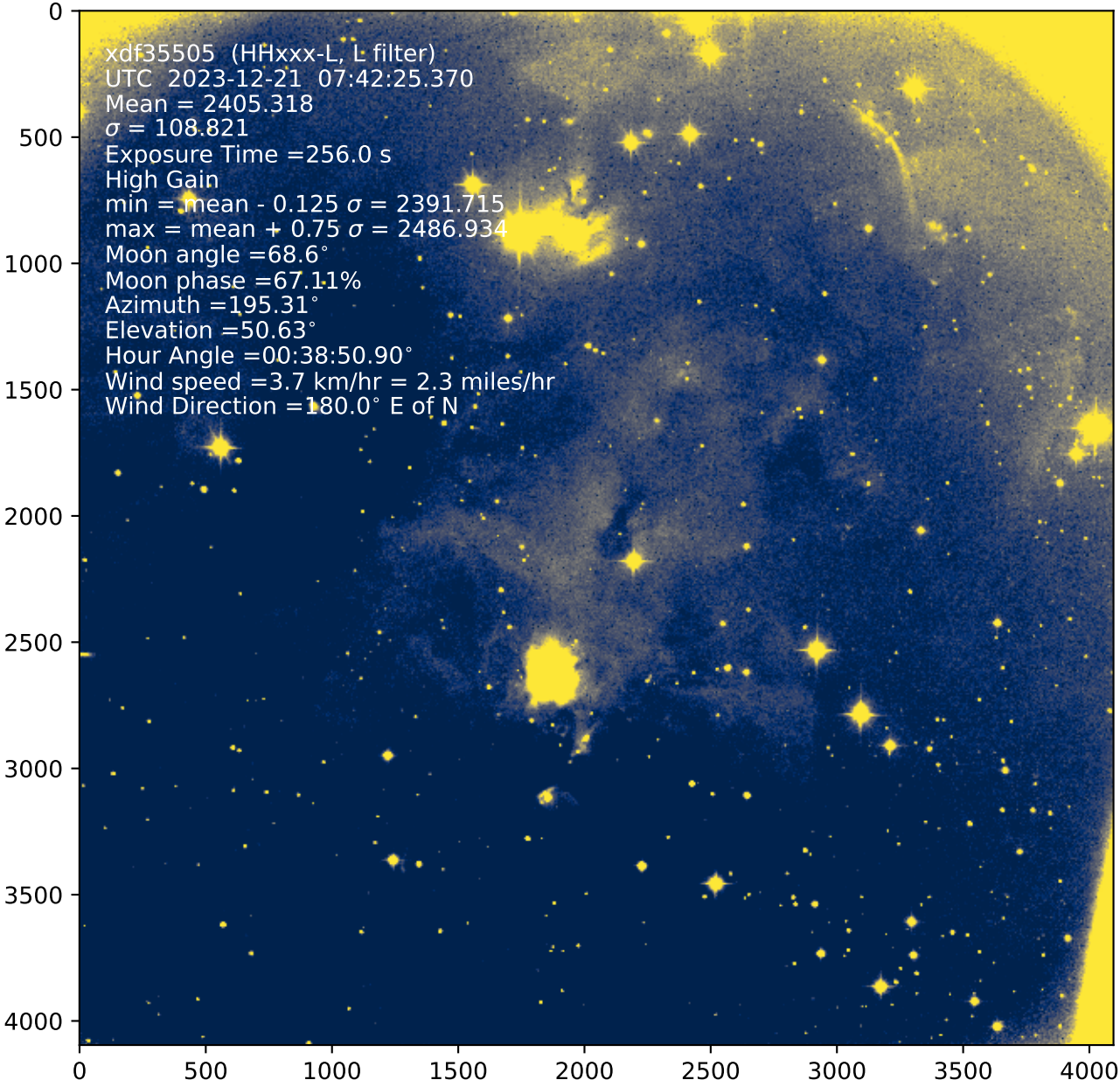
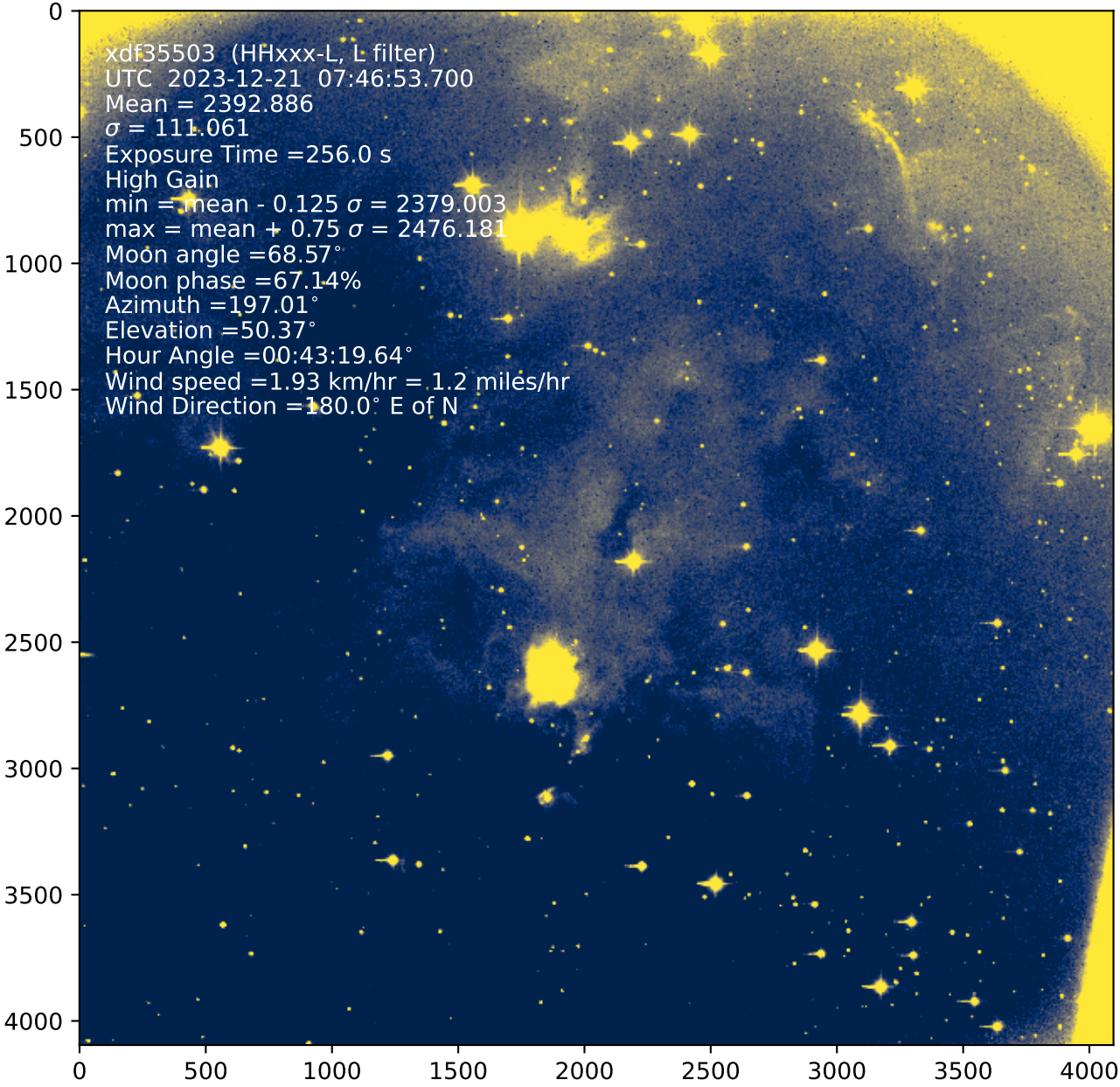
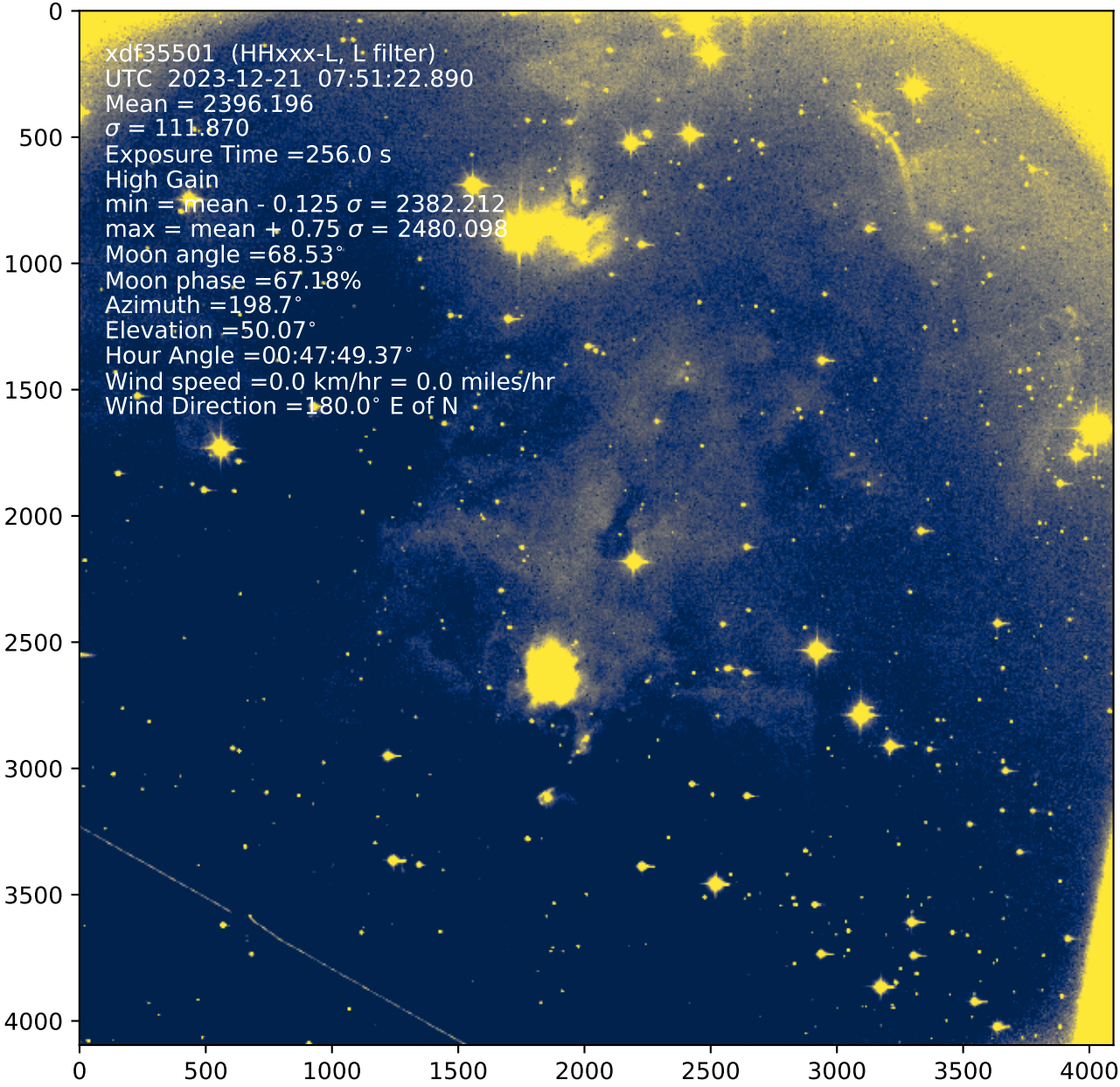
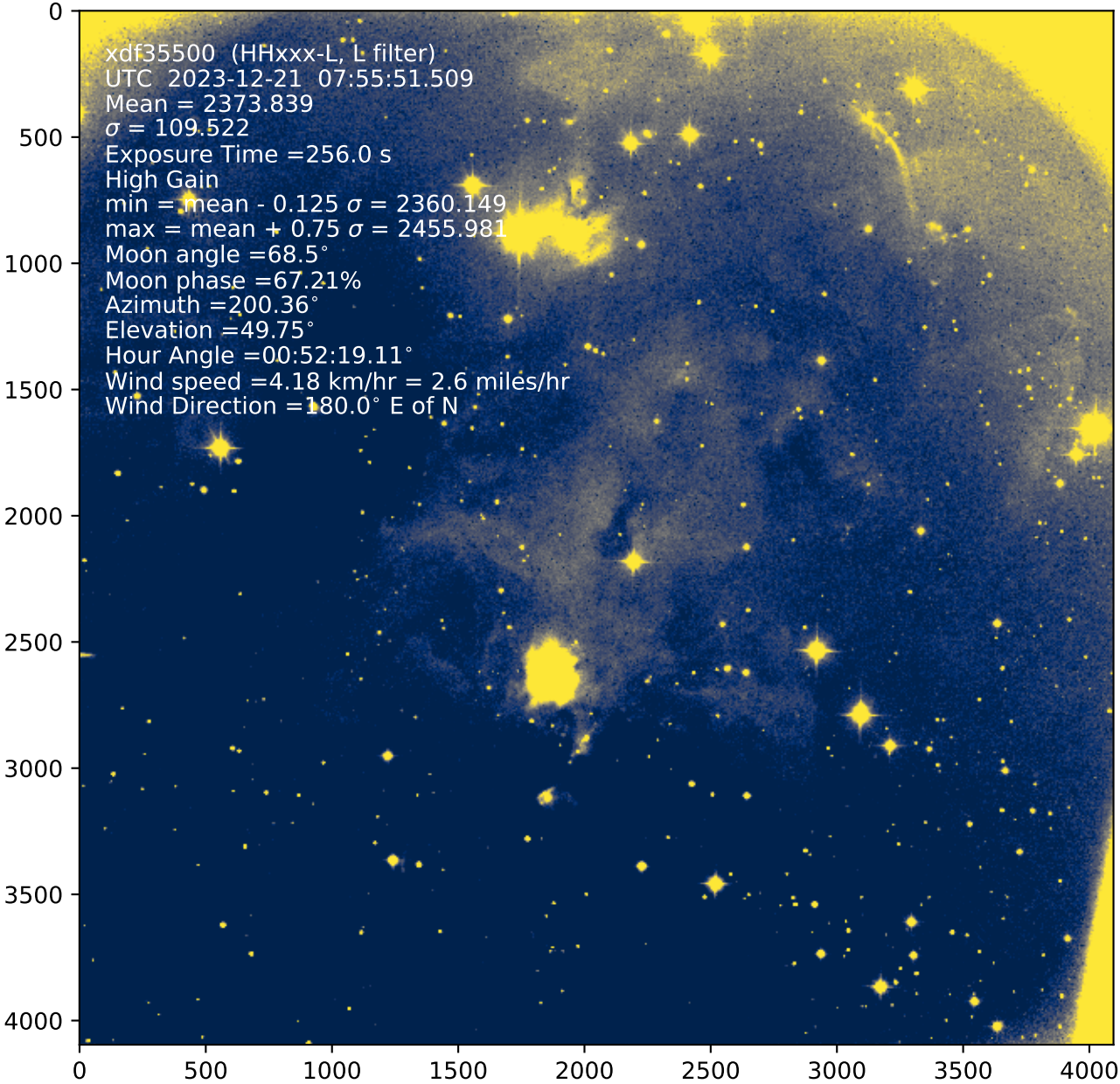
2000
2500
3000
3500
4000


xdf35505 (HHxxx-L, L filter)
UTC 2023-12-21 07:42:25.370
Mean = 2405.318
σ = 108.821
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 2391.715
max = mean + 0.75 σ = 2486.934
Moon angle =68.6°
Moon phase =67.11%
Azimuth =195.31°
Elevation =50.63°
Hour Angle =00:38:50.90°
Wind speed =3.7 km/hr = 2.3 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


xdf35503 (HHxxx-L, L filter)
UTC 2023-12-21 07:46:53.700
Mean = 2392.886
σ = 111.061
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 2379.003
max = mean + 0.75 σ = 2476.181
Moon angle =68.57°
Moon phase =67.14%
Azimuth =197.01°
Elevation =50.37°
Hour Angle =00:43:19.64°
Wind speed =1.93 km/hr = 1.2 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


xdf35501 (HHxxx-L, L filter)
UTC 2023-12-21 07:51:22.890
Mean = 2396.196
σ = 111.870
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 2382.212
max = mean + 0.75 σ = 2480.098
Moon angle =68.53°
Moon phase =67.18%
Azimuth =198.7°
Elevation =50.07°
Hour Angle =00:47:49.37°
Wind speed =0.0 km/hr = 0.0 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


xdf35500 (HHxxx-L, L filter)
UTC 2023-12-21 07:55:51.509
Mean = 2373.839
σ = 109.522
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 2360.149
max = mean + 0.75 σ = 2455.981
Moon angle =68.5°
Moon phase =67.21%
Azimuth =200.36°
Elevation =49.75°
Hour Angle =00:52:19.11°
Wind speed =4.18 km/hr = 2.6 miles/hr
Wind Direction =180.0° E of N
0
500
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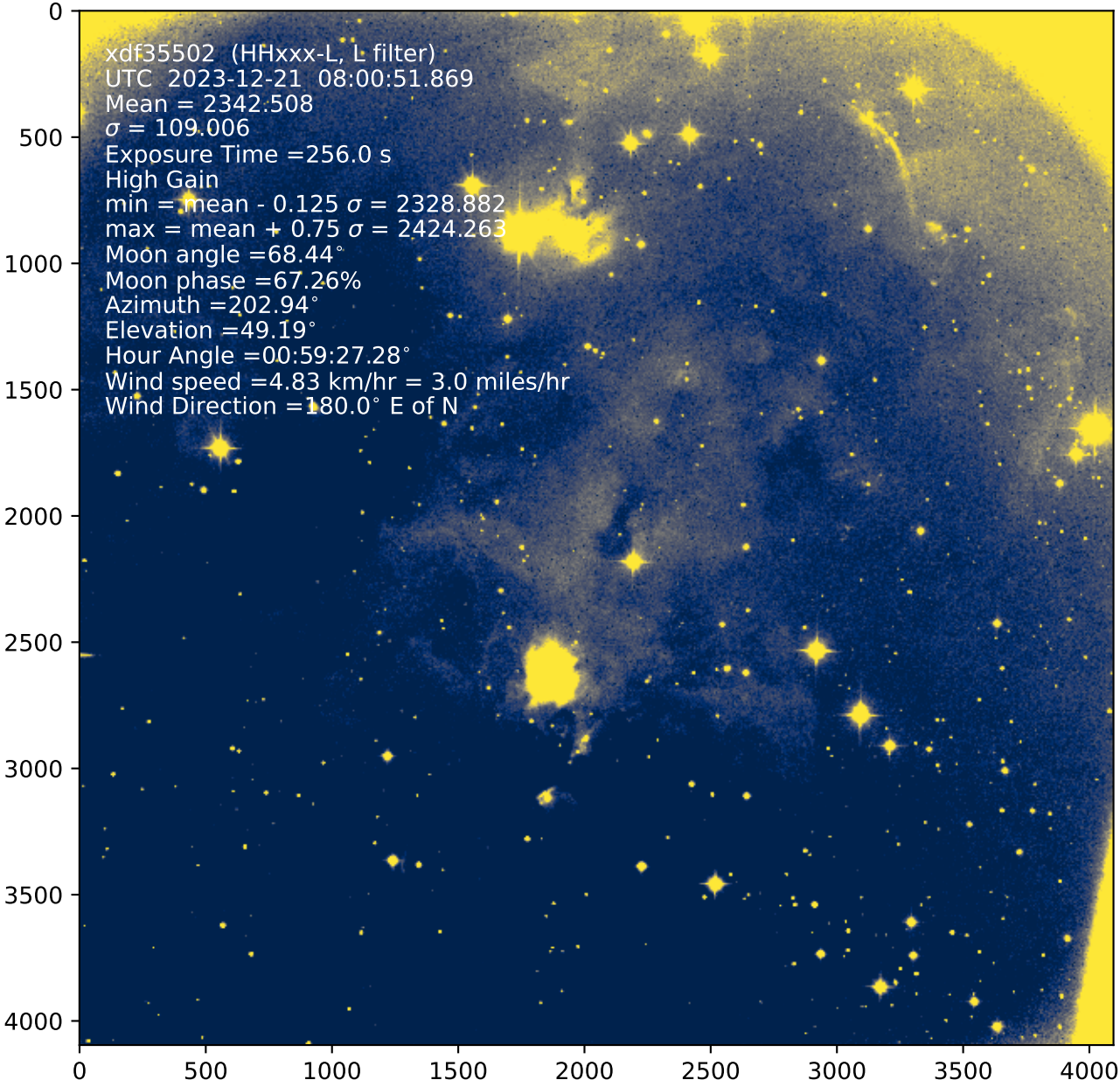
2500
3000
3500
4000


xdf35502 (HHxxx-L, L filter)
UTC 2023-12-21 08:00:51.869
Mean = 2342.508
σ = 109.006
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 2328.882
max = mean + 0.75 σ = 2424.263
Moon angle =68.44°
Moon phase =67.26%
Azimuth =202.94°
Elevation =49.19°
Hour Angle =00:59:27.28°
Wind speed =4.83 km/hr = 3.0 miles/hr
Wind Direction =180.0° E of N
0
500
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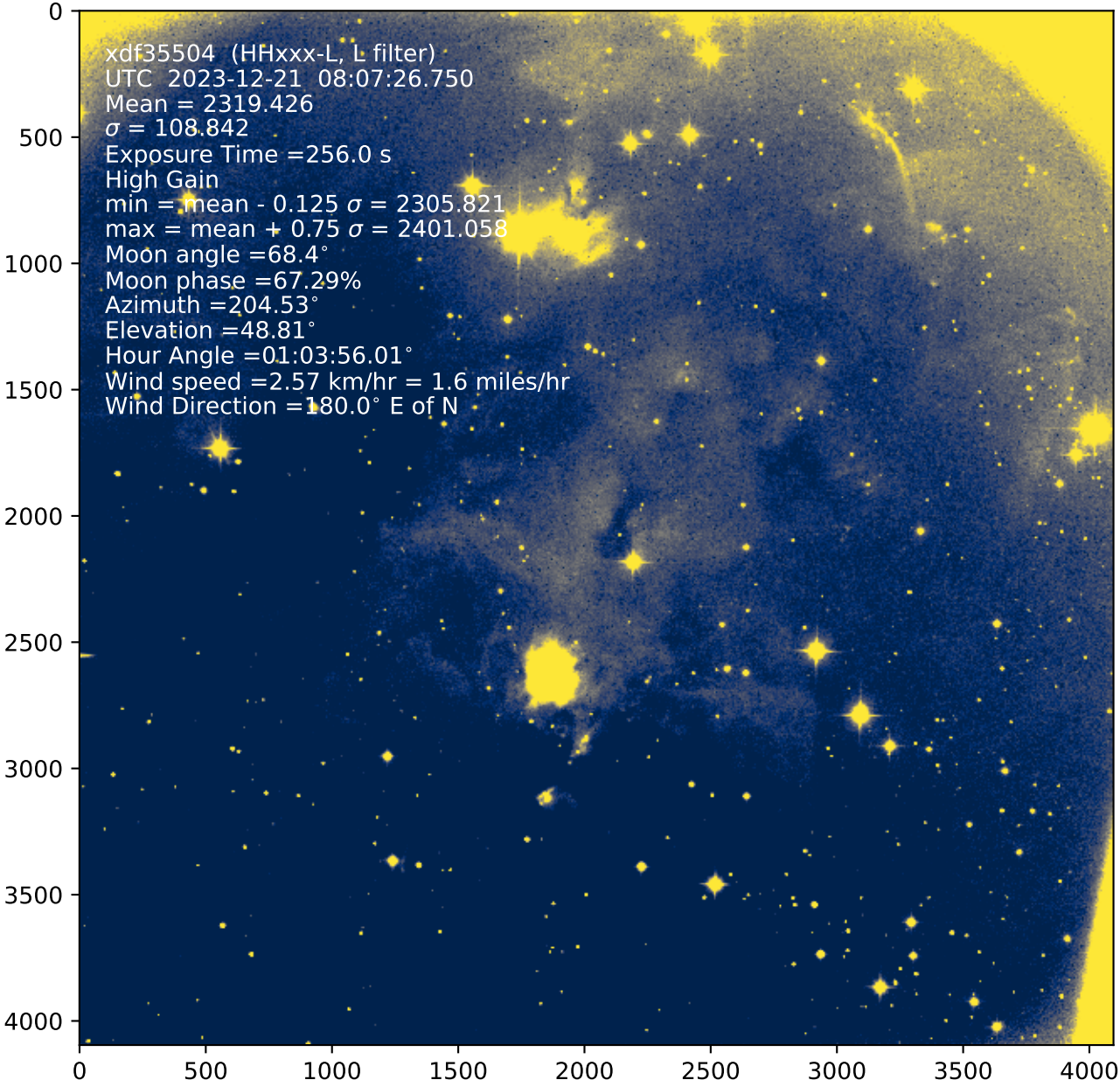
3000
3500
4000


xdf35504 (HHxxx-L, L filter)
UTC 2023-12-21 08:07:26.750
Mean = 2319.426
σ = 108.842
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 2305.821
max = mean + 0.75 σ = 2401.058
Moon angle =68.4°
Moon phase =67.29%
Azimuth =204.53°
Elevation =48.81°
Hour Angle =01:03:56.01°
Wind speed =2.57 km/hr = 1.6 miles/hr
Wind Direction =180.0° E of N
0
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2500
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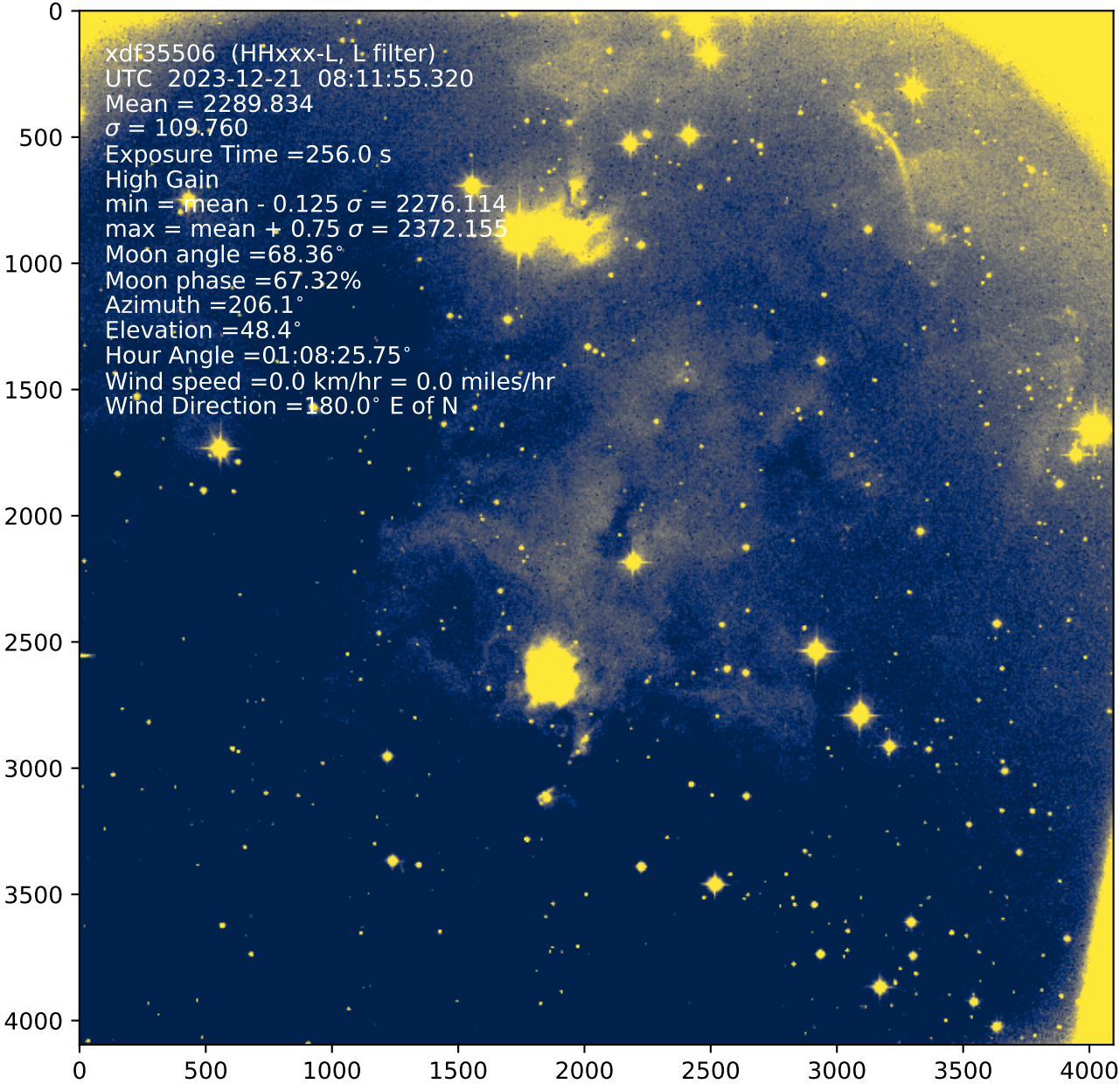
3500
4000


xdf35506 (HHxxx-L, L filter)
UTC 2023-12-21 08:11:55.320
Mean = 2289.834
σ = 109.760
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 2276.114
max = mean + 0.75 σ = 2372.155
Moon angle =68.36°
Moon phase =67.32%
Azimuth =206.1°
Elevation =48.4°
Hour Angle =01:08:25.75°
Wind speed =0.0 km/hr = 0.0 miles/hr
Wind Direction =180.0° E of N
0
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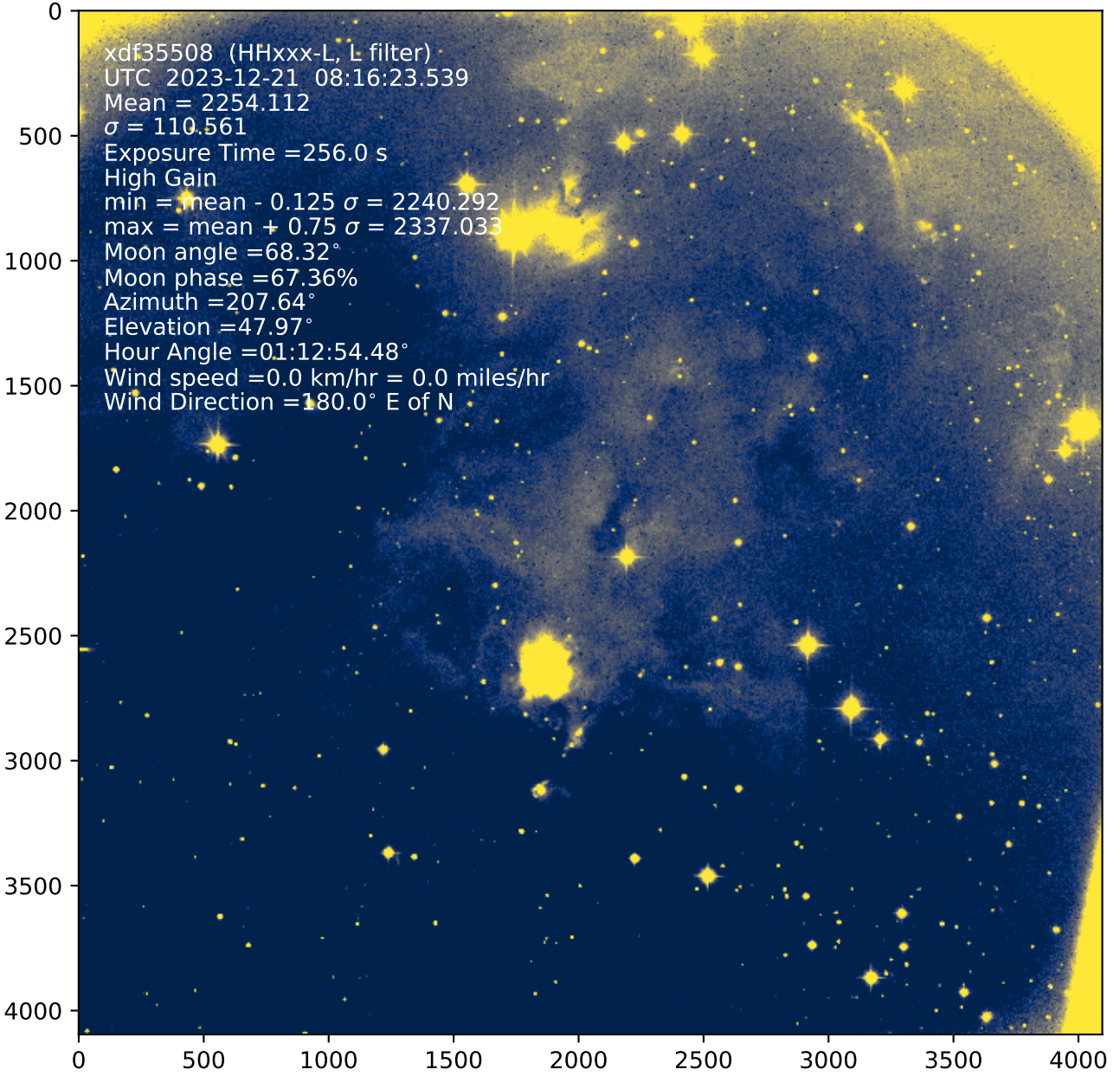
2500
3000
3500
4000


xdf35508 (HHxxx-L, L filter)
UTC 2023-12-21 08:16:23.539
Mean = 2254.112
σ = 110.561
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 2240.292
max = mean + 0.75 σ = 2337.033
Moon angle =68.32°
Moon phase =67.36%
Azimuth =207.64°
Elevation =47.97°
Hour Angle =01:12:54.48°
Wind speed =0.0 km/hr = 0.0 miles/hr
Wind Direction =180.0° E of N
0
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3500
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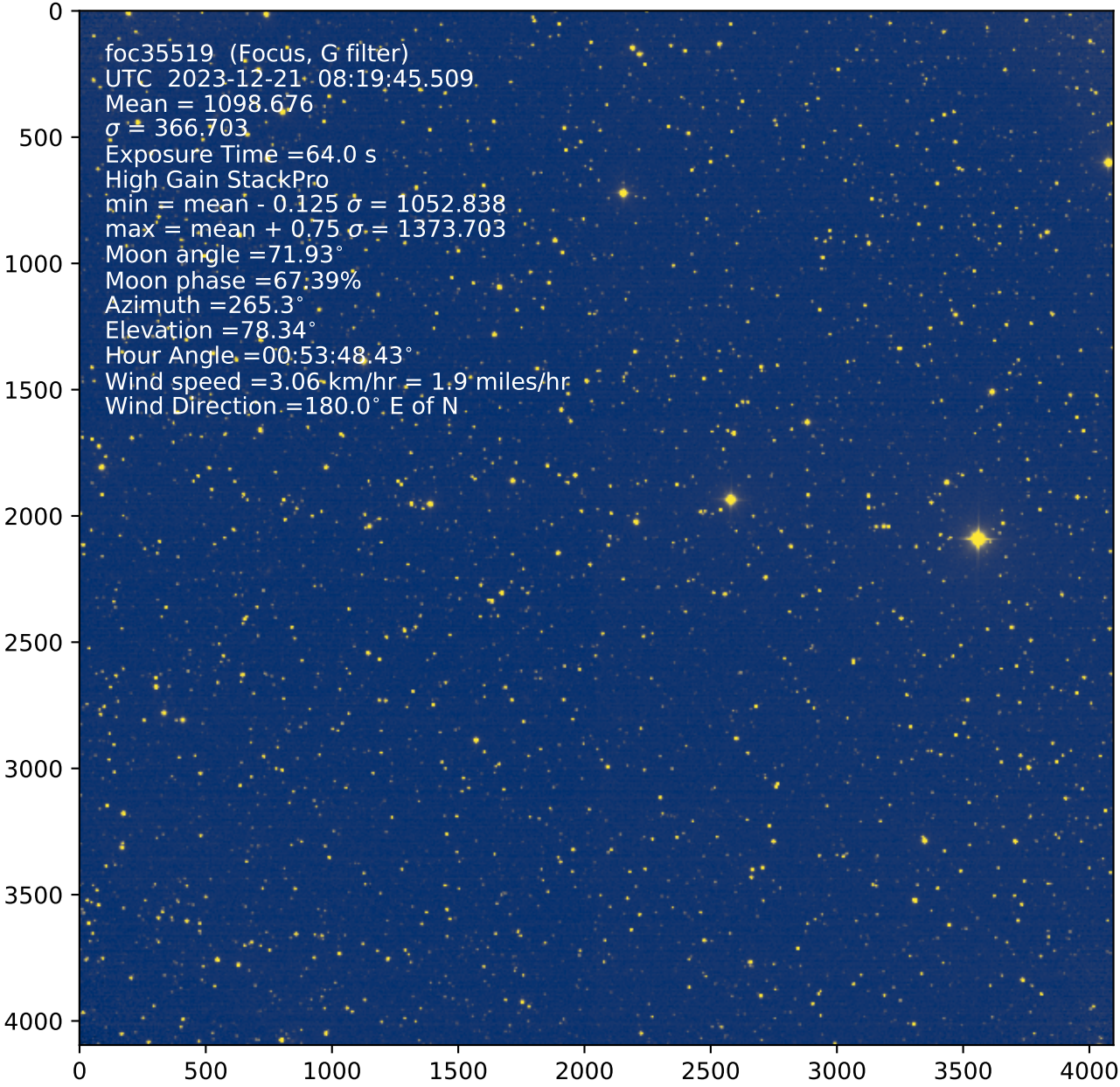
foc35519 (Focus, G filter)
UTC 2023-12-21 08:19:45.509
Mean = 1098.676
σ = 366.703
Exposure Time =64.0 s
High Gain StackPro
min = mean - 0.125 σ = 1052.838
max = mean + 0.75 σ = 1373.703
Moon angle =71.93°
Moon phase =67.39%
Azimuth =265.3°
Elevation =78.34°
Hour Angle =00:53:48.43°
Wind speed =3.06 km/hr = 1.9 miles/hr
Wind Direction =180.0° E of N
0
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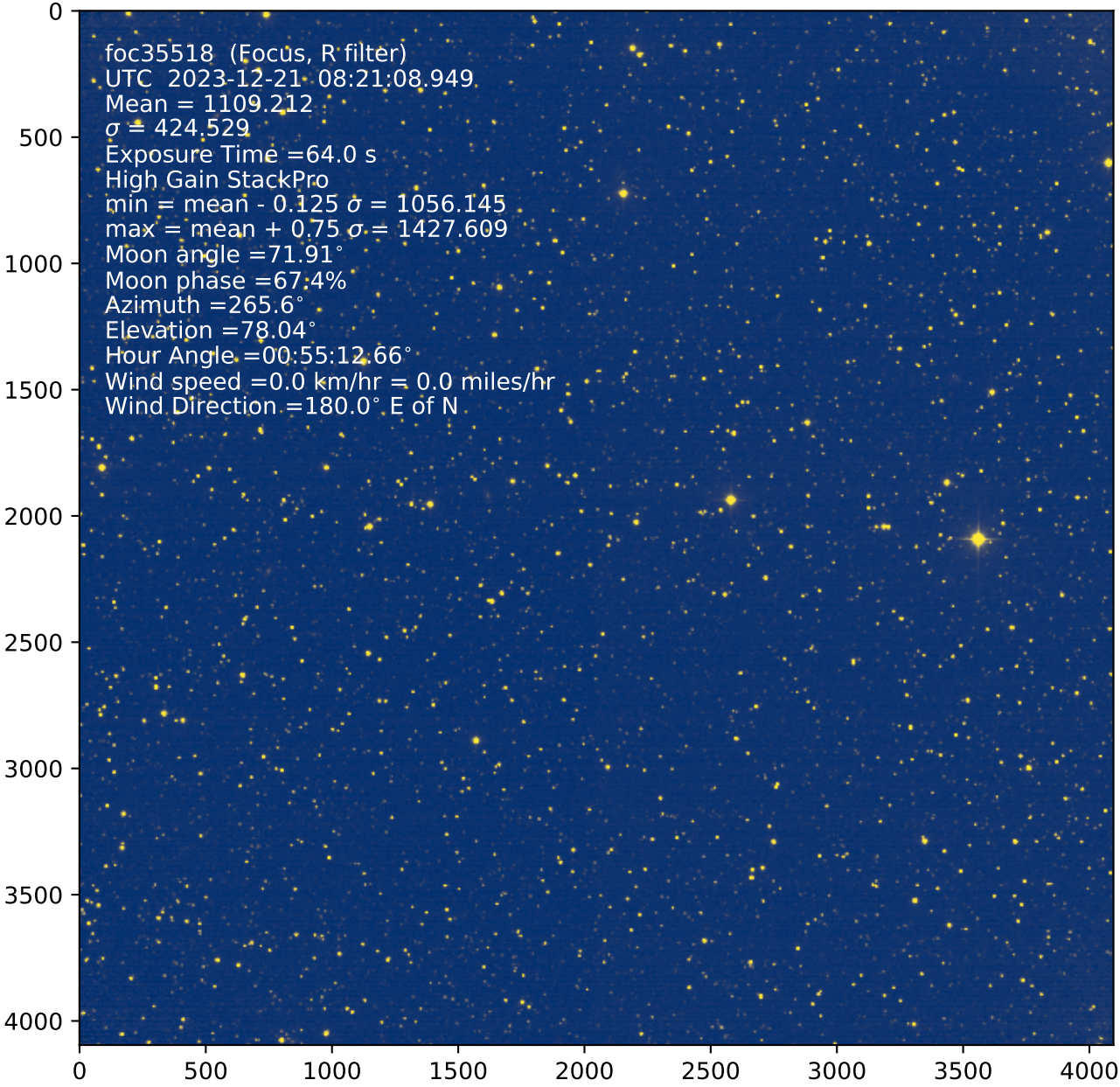
3500
4000


foc35518 (Focus, R filter)
UTC 2023-12-21 08:21:08.949
Mean = 1109.212
σ = 424.529
Exposure Time =64.0 s
High Gain StackPro
min = mean - 0.125 σ = 1056.145
max = mean + 0.75 σ = 1427.609
Moon angle =71.91°
Moon phase =67.4%
Azimuth =265.6°
Elevation =78.04°
Hour Angle =00:55:12.66°
Wind speed =0.0 km/hr = 0.0 miles/hr
Wind Direction =180.0° E of N
0
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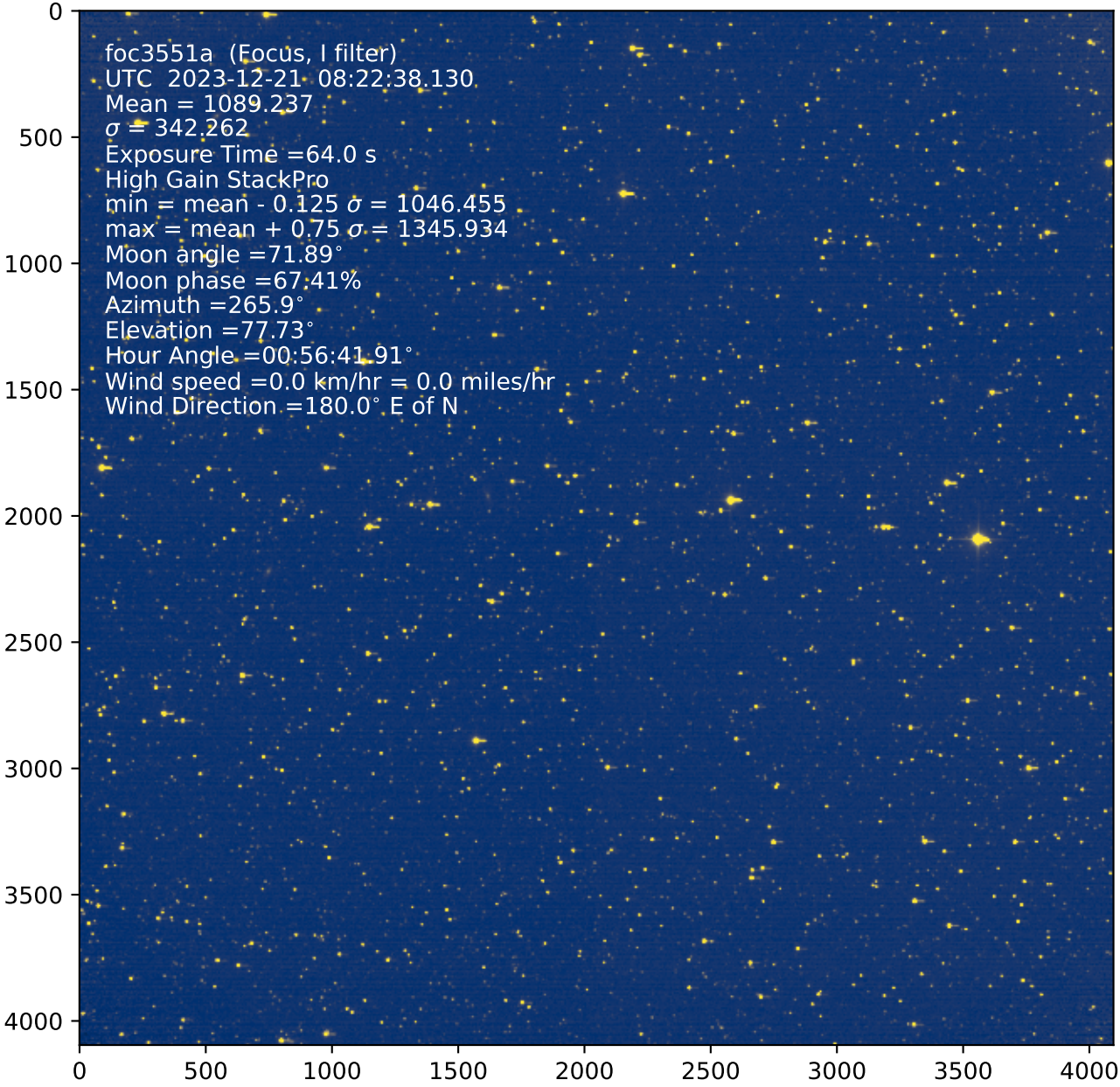
3500
4000


foc3551a (Focus, I filter)
UTC 2023-12-21 08:22:38.130
Mean = 1089.237
σ = 342.262
Exposure Time =64.0 s
High Gain StackPro
min = mean - 0.125 σ = 1046.455
max = mean + 0.75 σ = 1345.934
Moon angle =71.89°
Moon phase =67.41%
Azimuth =265.9°
Elevation =77.73°
Hour Angle =00:56:41.91°
Wind speed =0.0 km/hr = 0.0 miles/hr
Wind Direction =180.0° E of N
0
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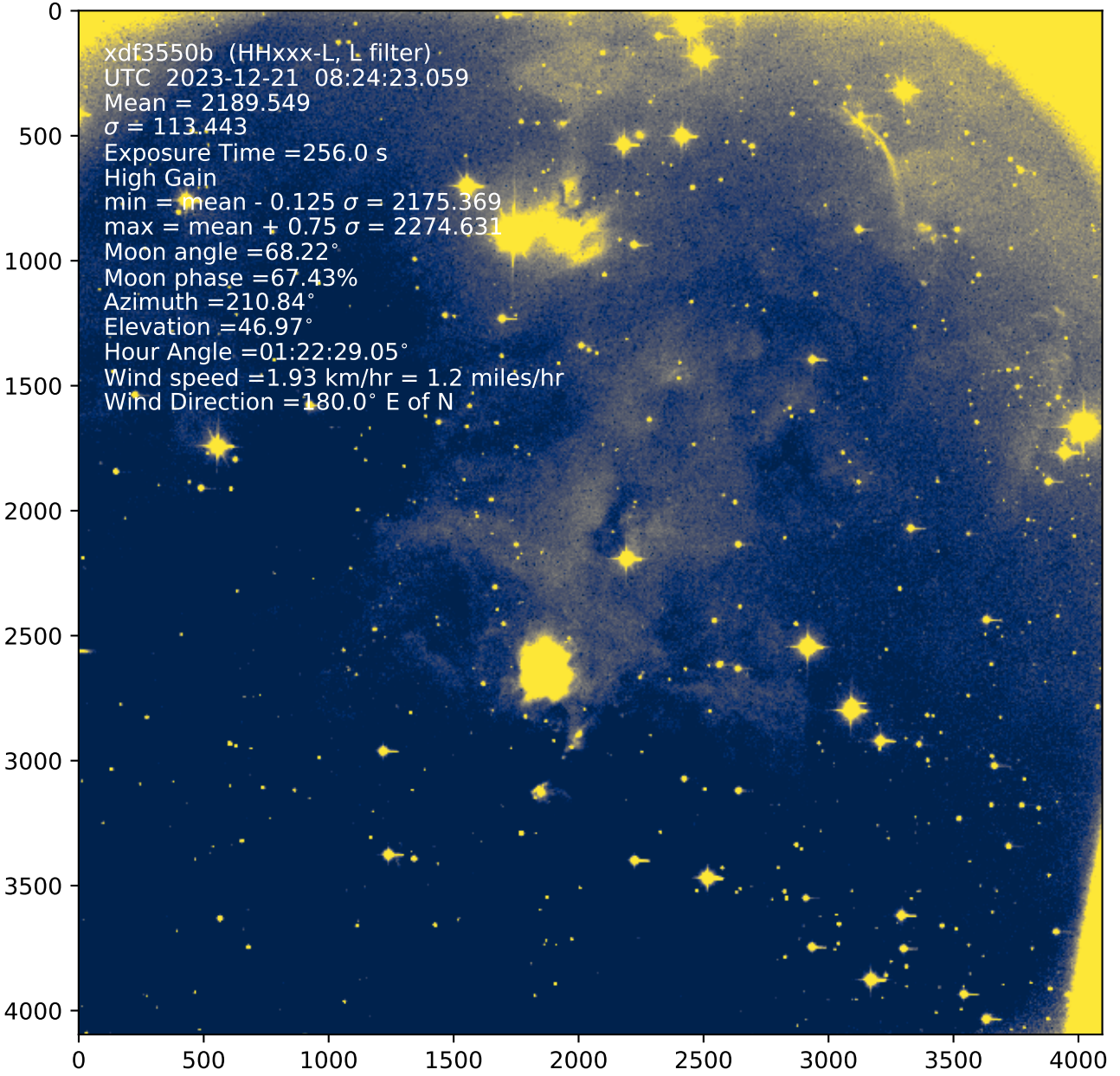
3000
3500
4000


xdf3550b (HHxxx-L, L filter)
UTC 2023-12-21 08:24:23.059
Mean = 2189.549
σ = 113.443
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 2175.369
max = mean + 0.75 σ = 2274.631
Moon angle =68.22°
Moon phase =67.43%
Azimuth =210.84°
Elevation =46.97°
Hour Angle =01:22:29.05°
Wind speed =1.93 km/hr = 1.2 miles/hr
Wind Direction =180.0° E of N
0
500
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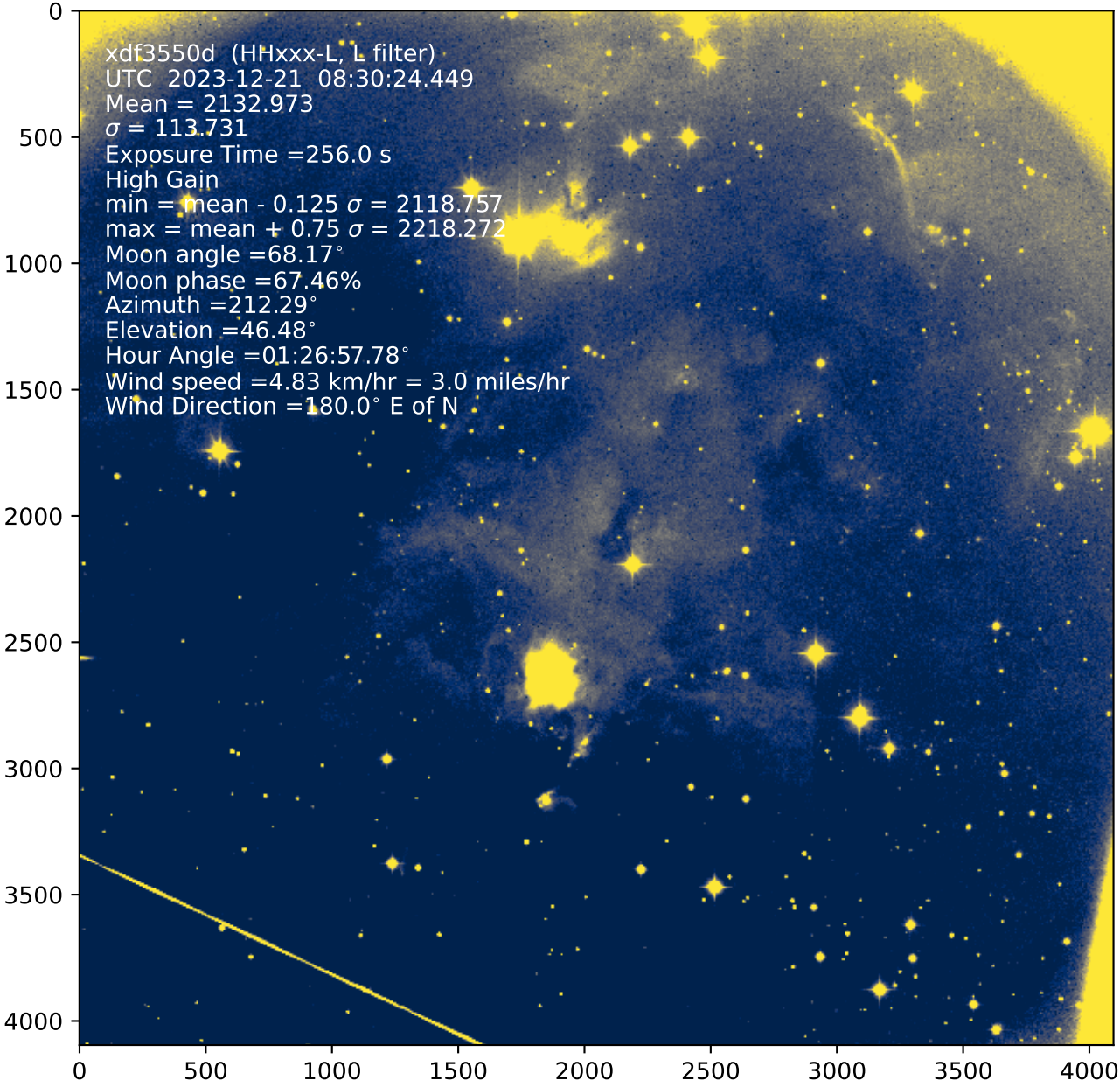
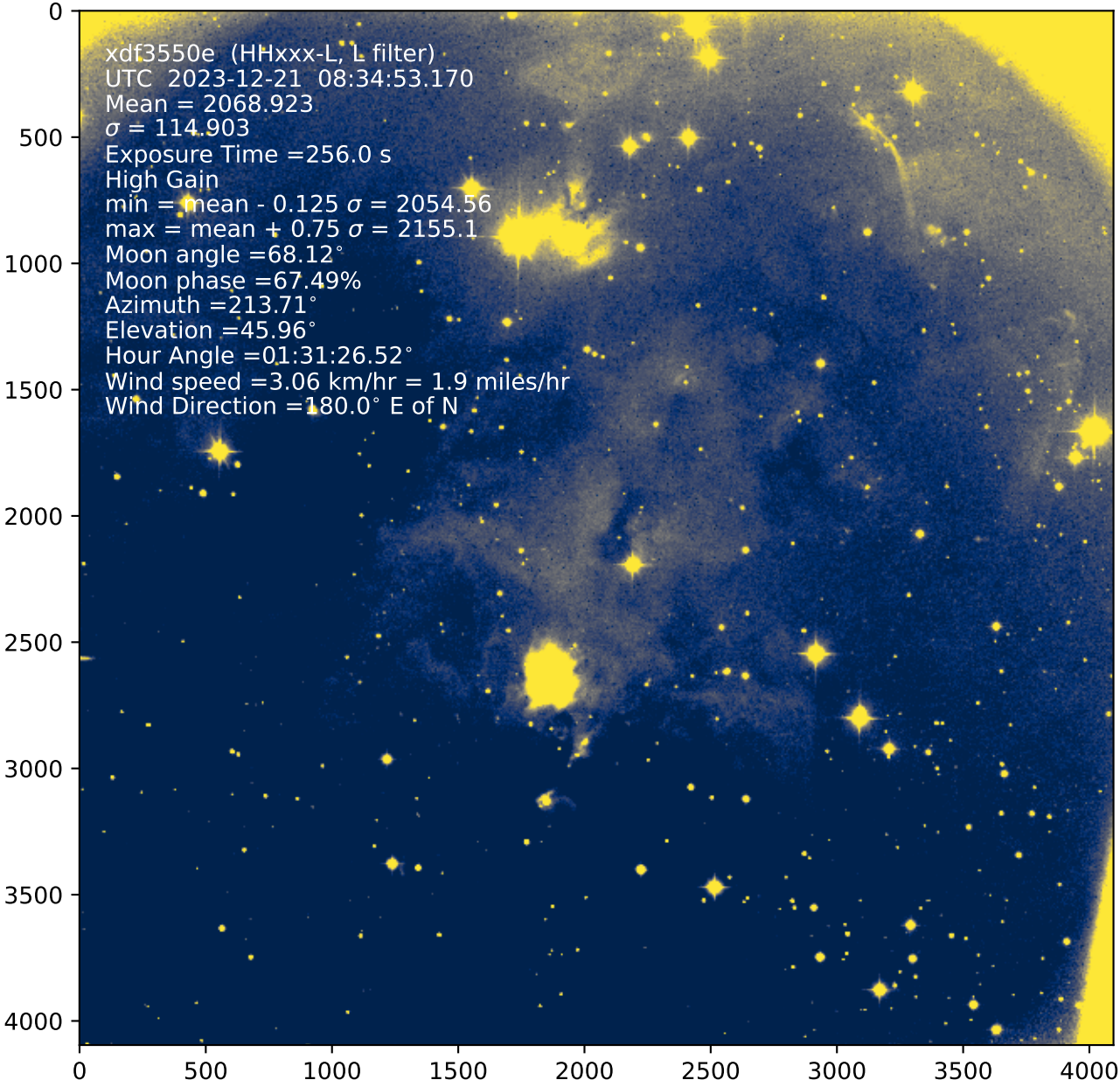
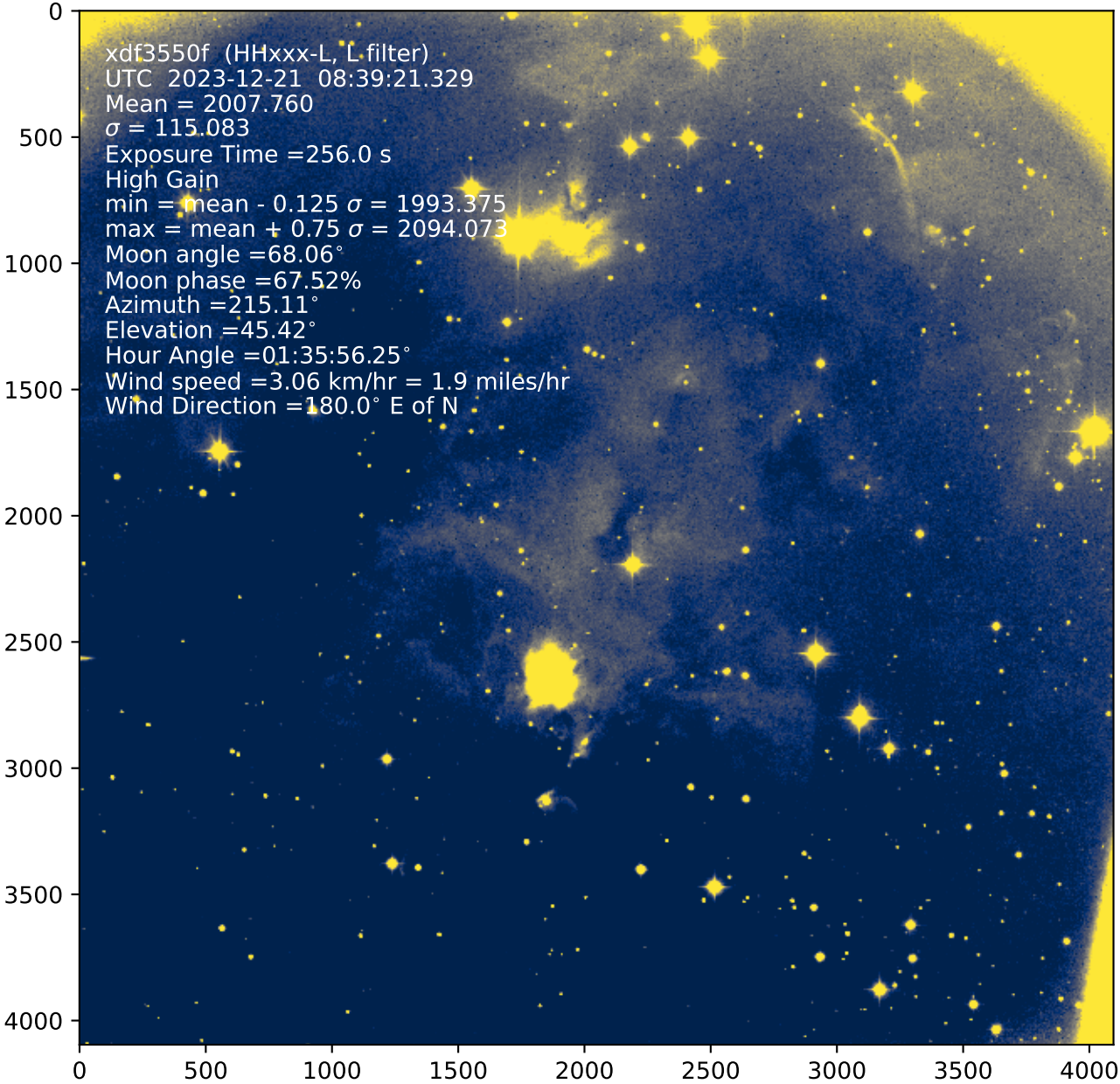
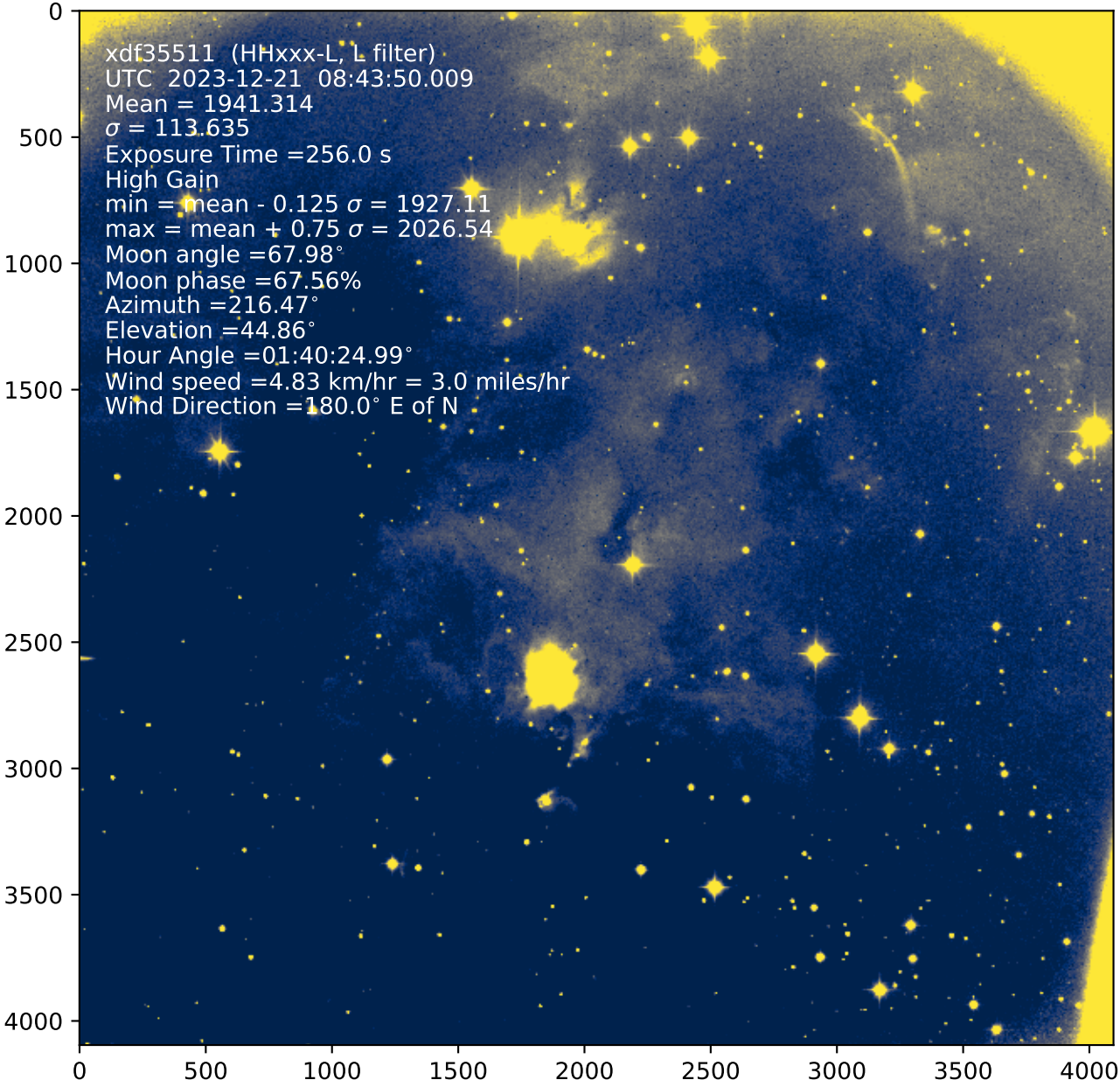
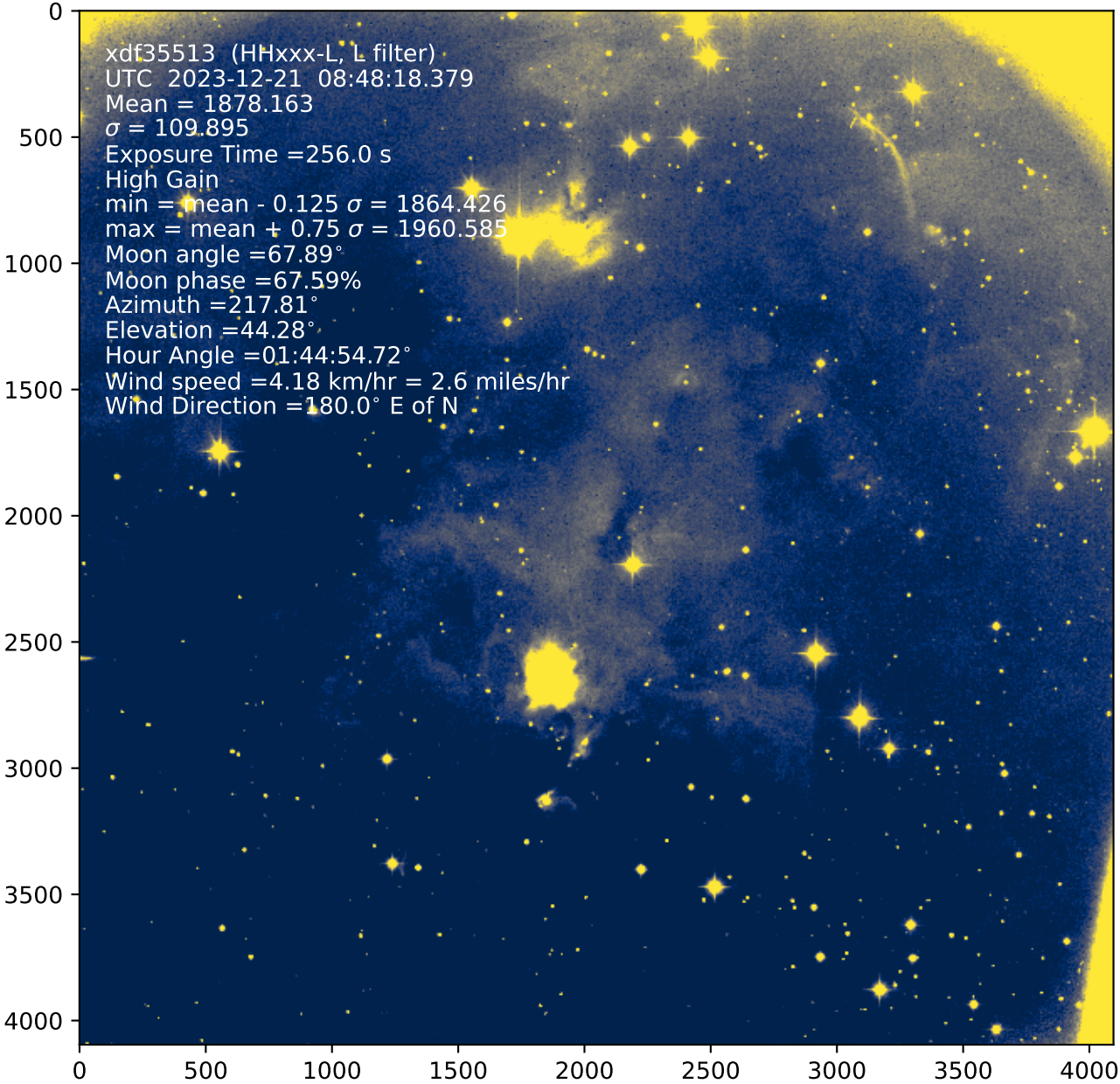
2000
2500
3000
3500
4000

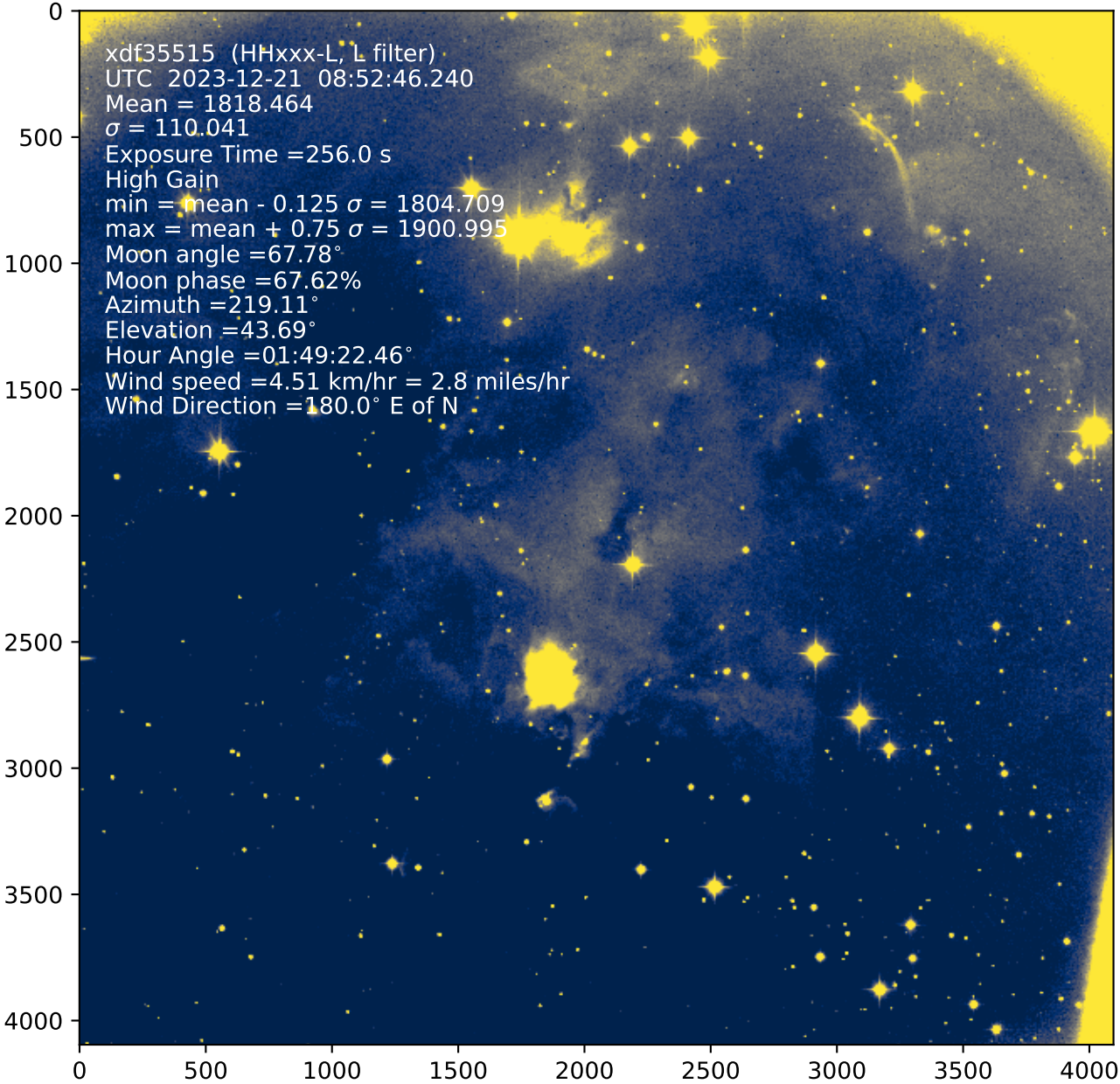

xdf3550d (HHxxx-L, L filter)
UTC 2023-12-21 08:30:24.449
Mean = 2132.973
σ = 113.731
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 2118.757
max = mean + 0.75 σ = 2218.272
Moon angle =68.17°
Moon phase =67.46%
Azimuth =212.29°
Elevation =46.48°
Hour Angle =01:26:57.78°
Wind speed =4.83 km/hr = 3.0 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000

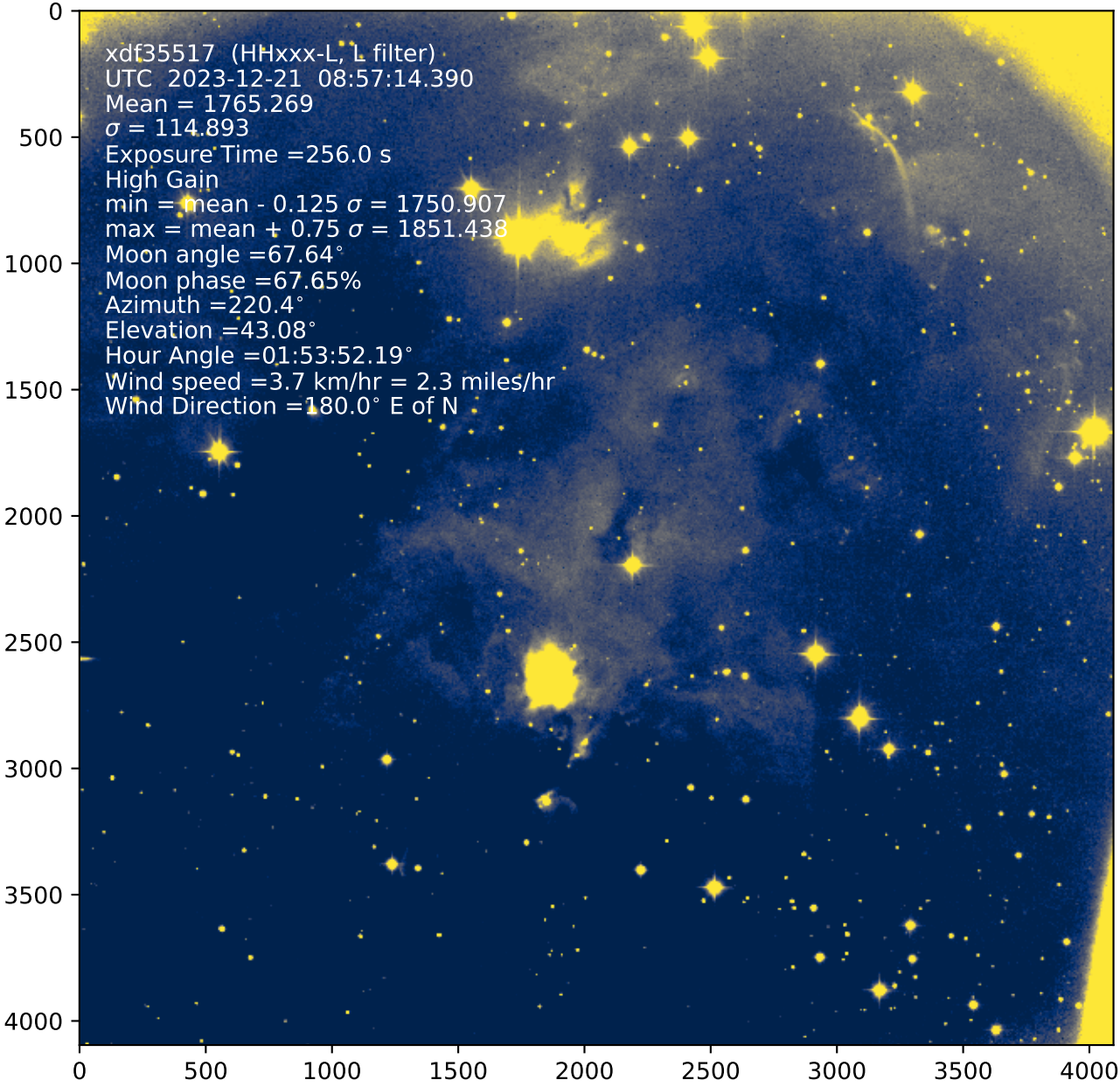

xdf3550e (HHxxx-L, L filter)
UTC 2023-12-21 08:34:53.170
Mean = 2068.923
σ = 114.903
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 2054.56
max = mean + 0.75 σ = 2155.1
Moon angle =68.12°
Moon phase =67.49%
Azimuth =213.71°
Elevation =45.96°
Hour Angle =01:31:26.52°
Wind speed =3.06 km/hr = 1.9 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000

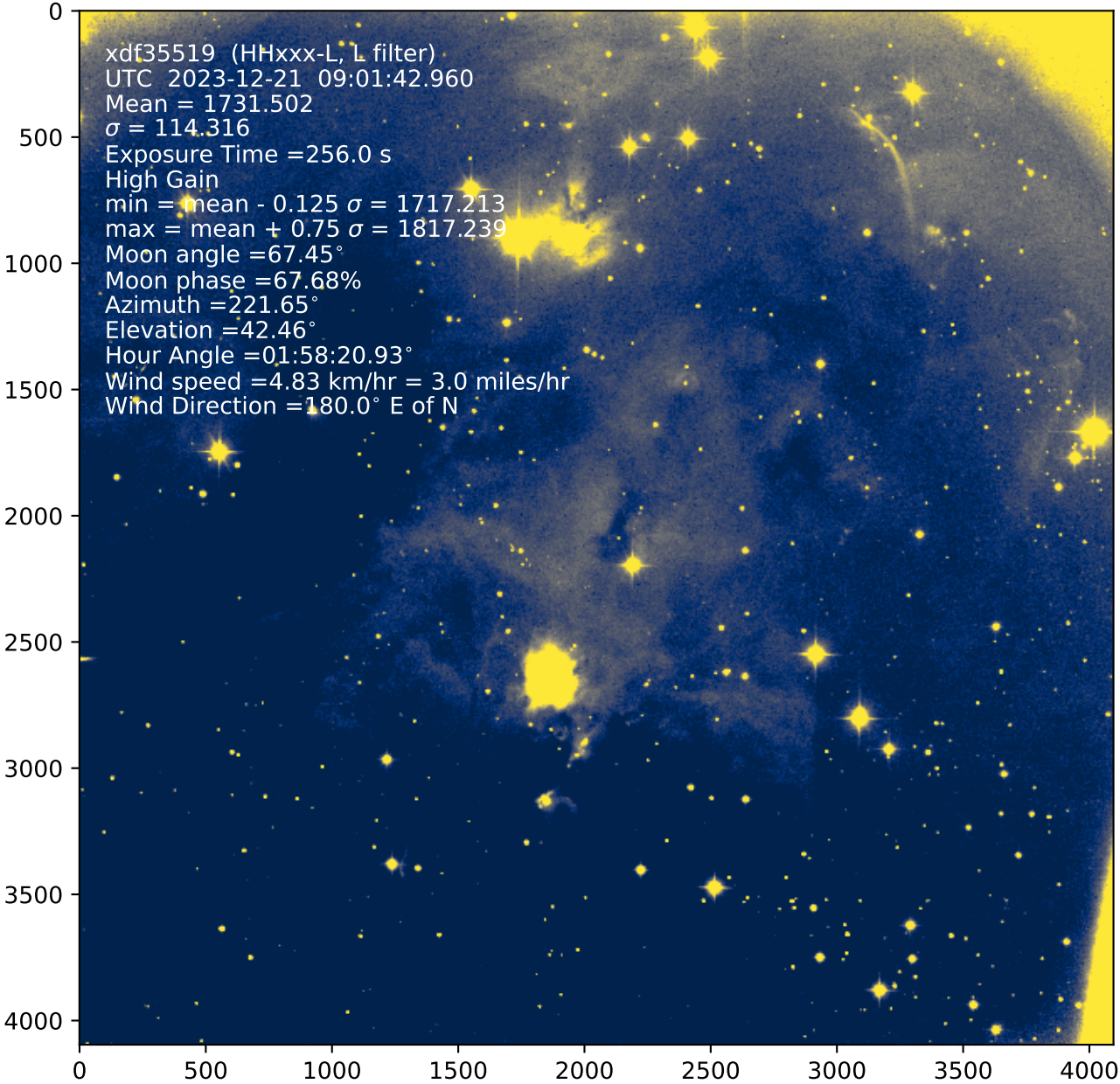

xdf3550f (HHxxx-L, L-filter)
UTC 2023-12-21 08:39:21.329
Mean = 2007.760
σ = 115.083
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1993.375
max = mean + 0.75 σ = 2094.073
Moon angle =68.06°
Moon phase =67.52%
Azimuth =215.11°
Elevation =45.42°
Hour Angle =01:35:56.25°
Wind speed =3.06 km/hr = 1.9 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000

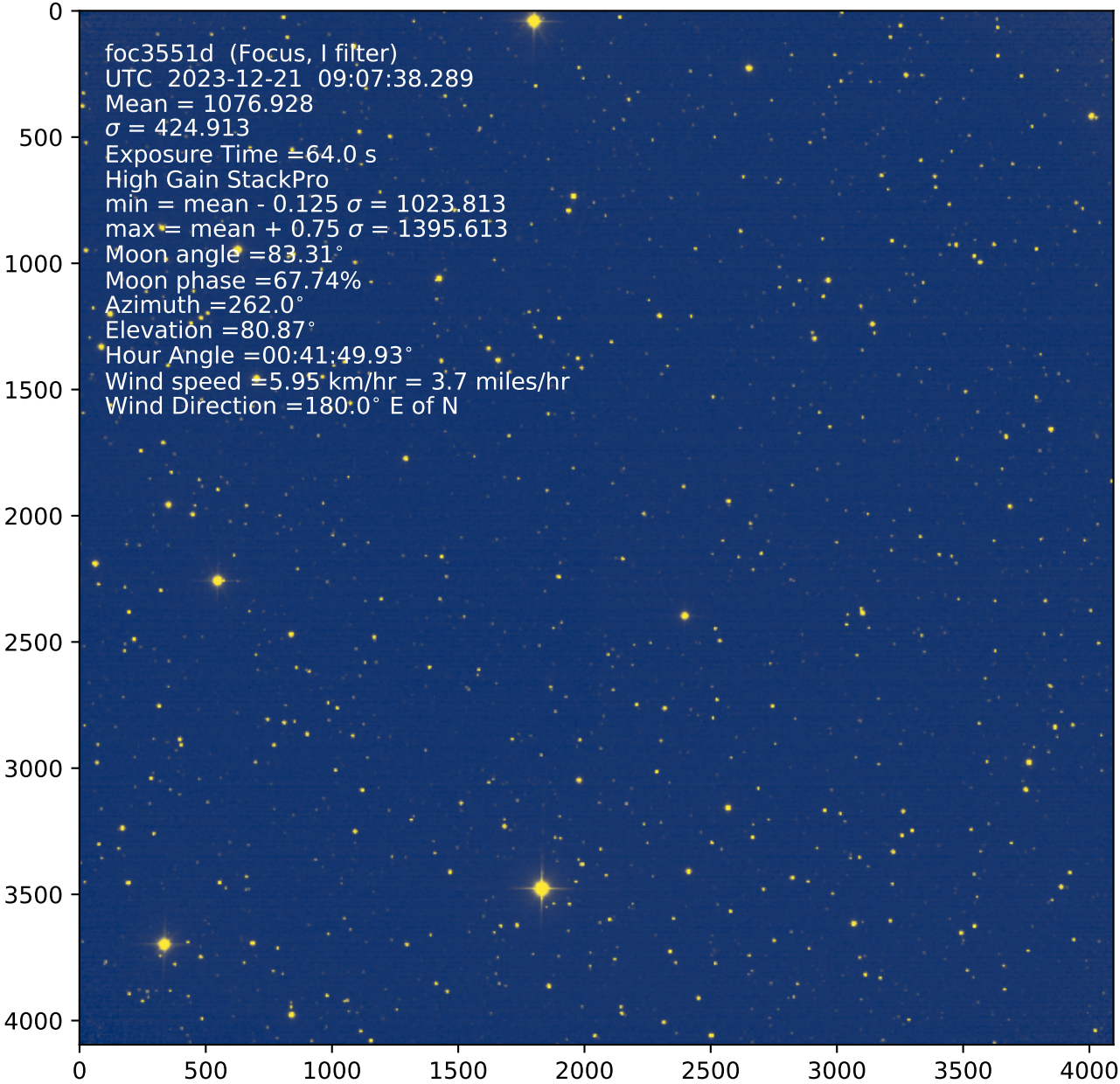

xdf35511 (HHxxx-L, L filter)
UTC 2023-12-21 08:43:50.009
Mean = 1941.314
σ = 113.635
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1927.11
max = mean + 0.75 σ = 2026.54
Moon angle =67.98°
Moon phase =67.56%
Azimuth =216.47°
Elevation =44.86°
Hour Angle =01:40:24.99°
Wind speed =4.83 km/hr = 3.0 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000

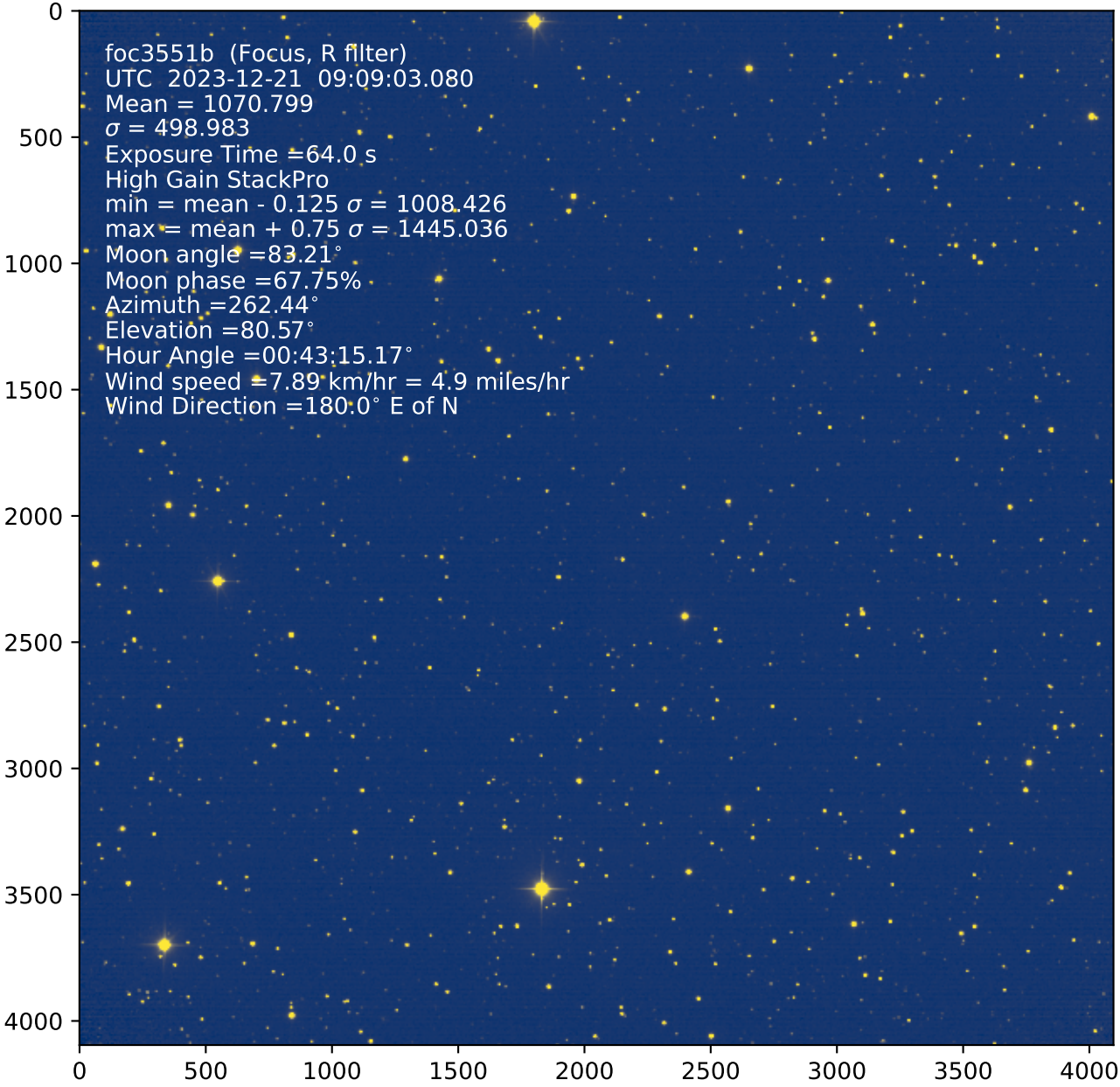

xdf35513 (HHxxx-L, L filter)
UTC 2023-12-21 08:48:18.379
Mean = 1878.163
σ = 109.895
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1864.426
max = mean + 0.75 σ = 1960.585
Moon angle =67.89°
Moon phase =67.59%
Azimuth =217.81°
Elevation =44.28°
Hour Angle =01:44:54.72°
Wind speed =4.18 km/hr = 2.6 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000

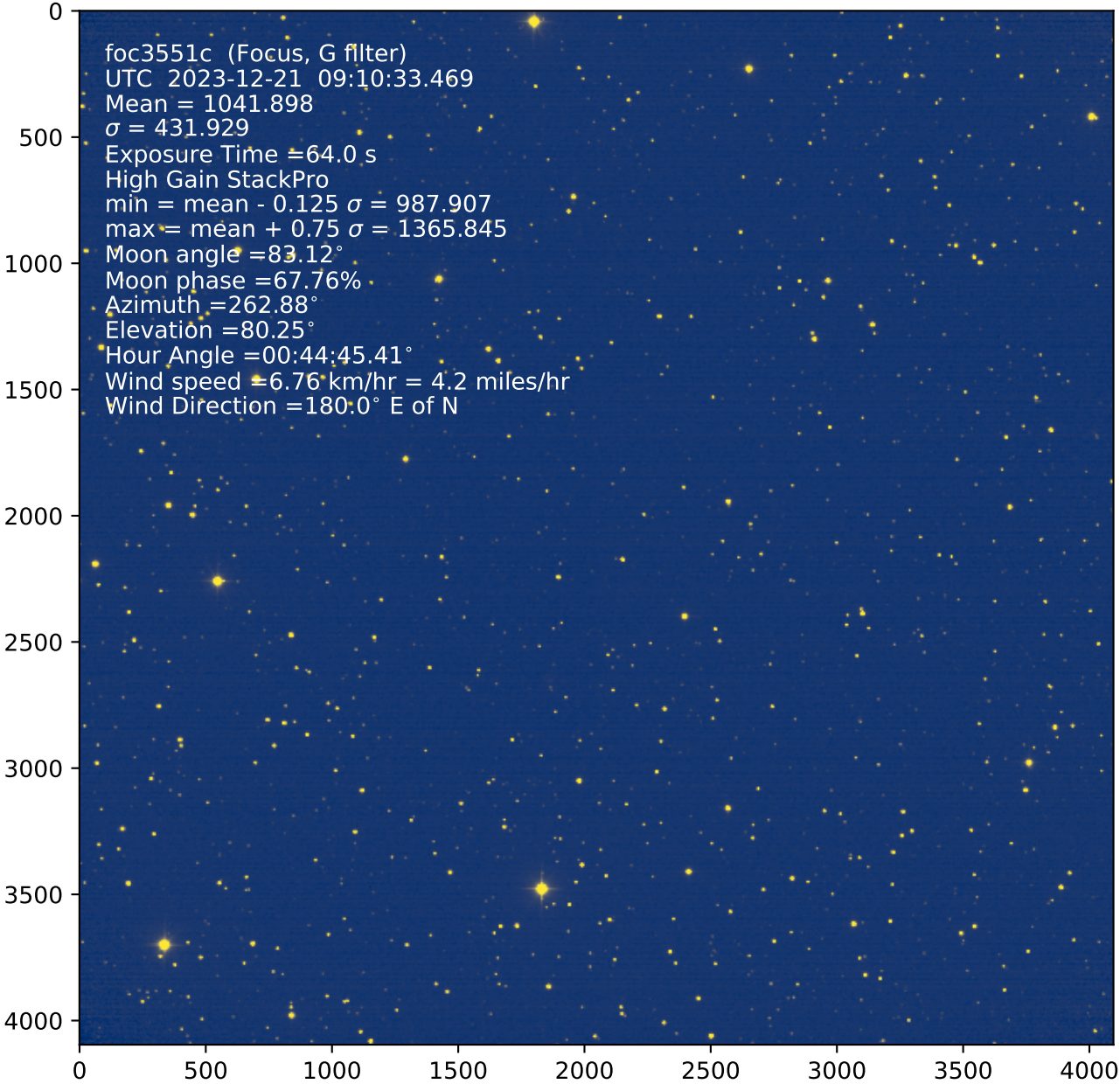

xdf35515 (HHxxx-L, L filter)
UTC 2023-12-21 08:52:46.240
Mean = 1818.464
σ = 110.041
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1804.709
max = mean + 0.75 σ = 1900.995
Moon angle =67.78°
Moon phase =67.62%
Azimuth =219.11°
Elevation =43.69°
Hour Angle =01:49:22.46°
Wind speed =4.51 km/hr = 2.8 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000

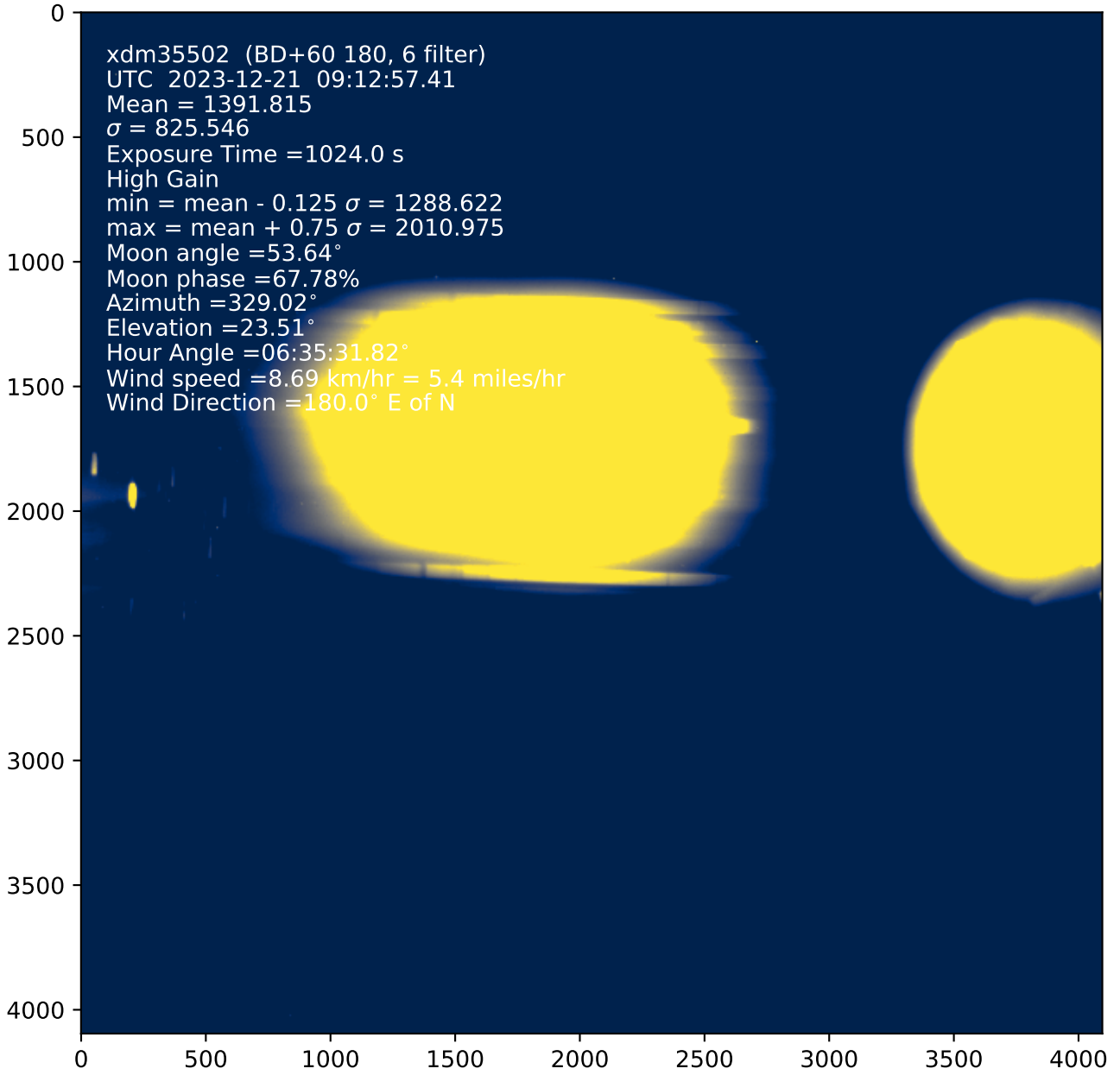

xdf35517 (HHxxx-L, L filter)
UTC 2023-12-21 08:57:14.390
Mean = 1765.269
σ = 114.893
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1750.907
max = mean + 0.75 σ = 1851.438
Moon angle =67.64°
Moon phase =67.65%
Azimuth =220.4°
Elevation =43.08°
Hour Angle =01:53:52.19°
Wind speed =3.7 km/hr = 2.3 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000

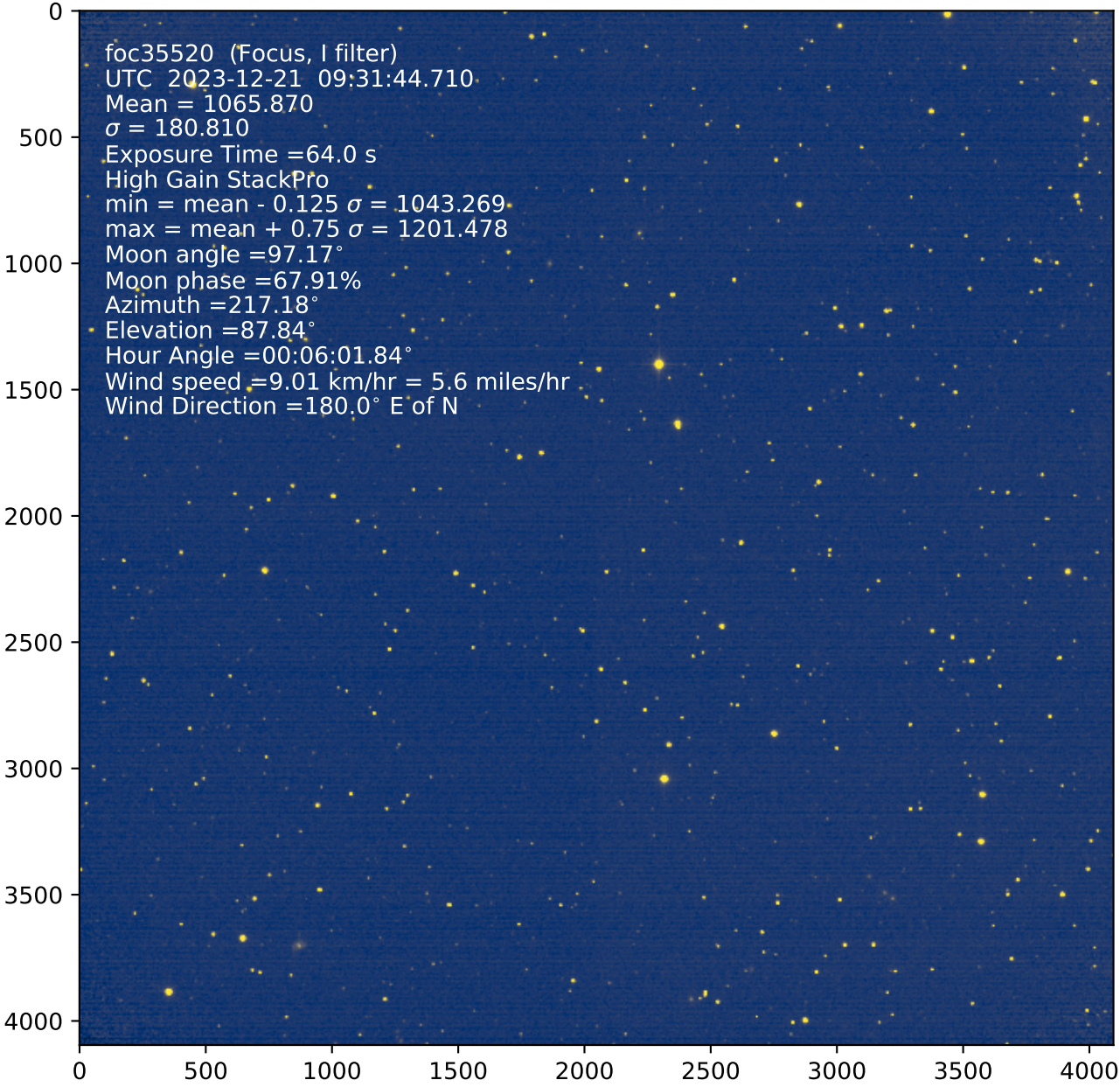

xdf35519 (HHxxx-L, L filter)
UTC 2023-12-21 09:01:42.960
Mean = 1731.502
σ = 114.316
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1717.213
max = mean + 0.75 σ = 1817.239
Moon angle =67.45°
Moon phase =67.68%
Azimuth =221.65°
Elevation =42.46°
Hour Angle =01:58:20.93°
Wind speed =4.83 km/hr = 3.0 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000

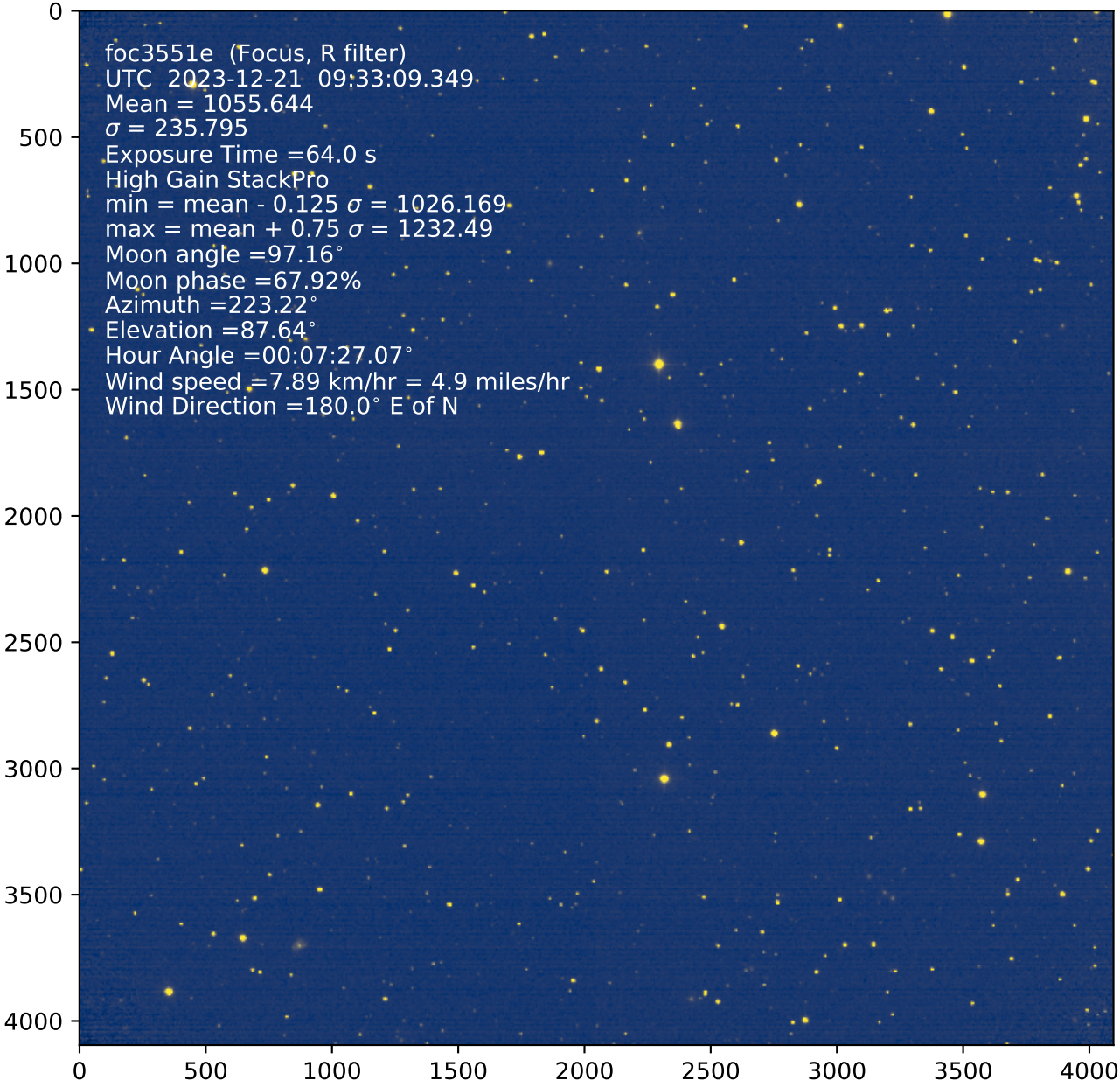

foc3551d (Focus, I filter)
UTC 2023-12-21 09:07:38.289
Mean = 1076.928
σ = 424.913
Exposure Time =64.0 s
High Gain StackPro
min = mean - 0.125 σ = 1023.813
max = mean + 0.75 σ = 1395.613
Moon angle =83.31°
Moon phase =67.74%
Azimuth =262.0°
Elevation =80.87°
Hour Angle =00:41:49.93°
Wind speed =5.95 km/hr = 3.7 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000

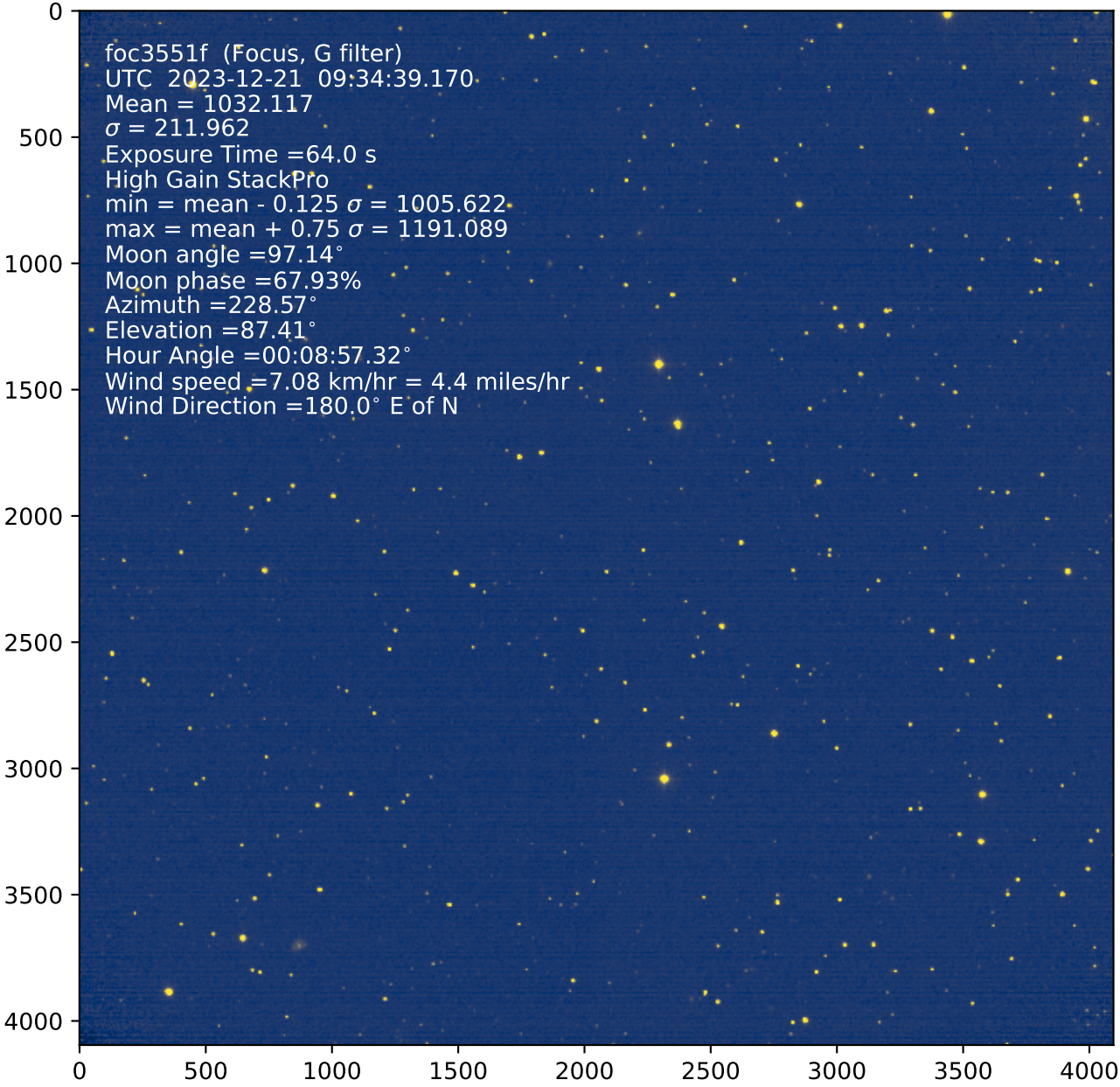

foc3551b (Focus, R filter)
UTC 2023-12-21 09:09:03.080
Mean = 1070.799
σ = 498.983
Exposure Time =64.0 s
High Gain StackPro
min = mean - 0.125 σ = 1008.426
max = mean + 0.75 σ = 1445.036
Moon angle =83.21°
Moon phase =67.75%
Azimuth =262.44°
Elevation =80.57°
Hour Angle =00:43:15.17°
Wind speed =7.89 km/hr = 4.9 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000

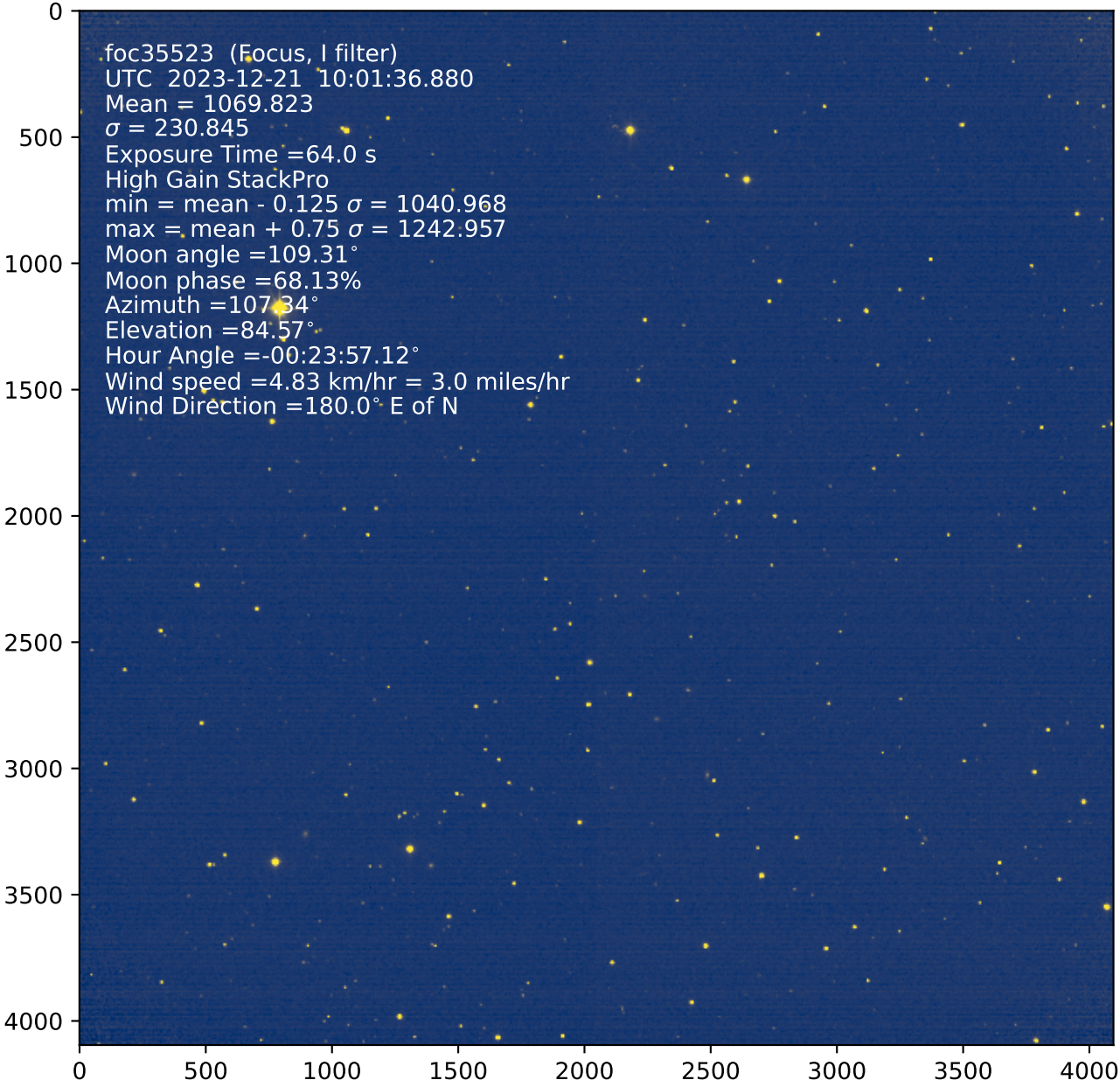

foc3551c (Focus, G filter)
UTC 2023-12-21 09:10:33.469
Mean = 1041.898
σ = 431.929
Exposure Time =64.0 s
High Gain StackPro
min = mean - 0.125 σ = 987.907
max = mean + 0.75 σ = 1365.845
Moon angle =83.12°
Moon phase =67.76%
Azimuth =262.88°
Elevation =80.25°
Hour Angle =00:44:45.41°
Wind speed =6.76 km/hr = 4.2 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000

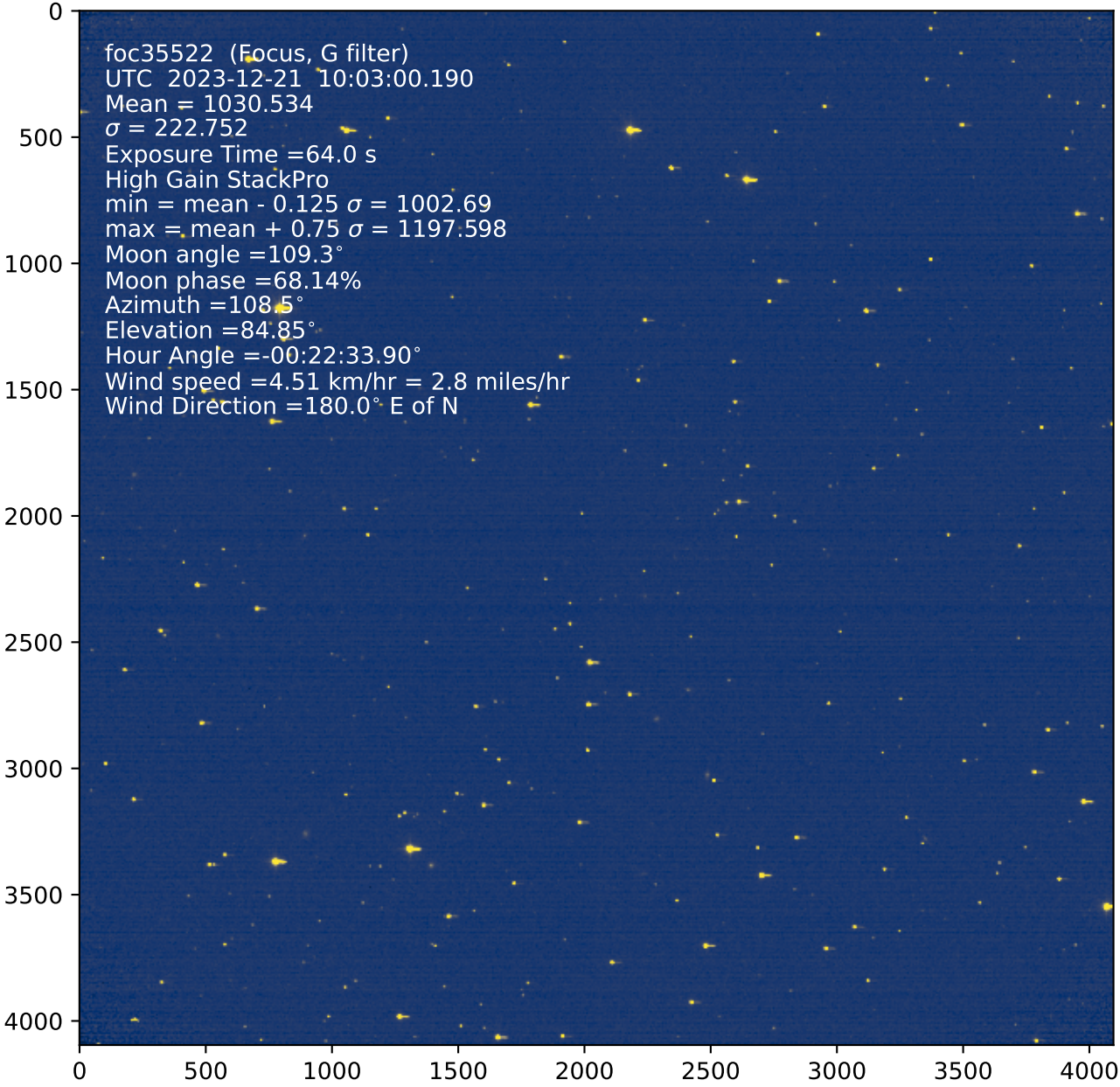

xdm35502 (BD+60 180, 6 filter)
UTC 2023-12-21 09:12:57.41
Mean = 1391.815
σ = 825.546
Exposure Time =1024.0 s
High Gain
min = mean - 0.125 σ = 1288.622
max = mean + 0.75 σ = 2010.975
Moon angle =53.64°
Moon phase =67.78%
Azimuth =329.02°
Elevation =23.51°
Hour Angle =06:35:31.82°
Wind speed =8.69 km/hr = 5.4 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000

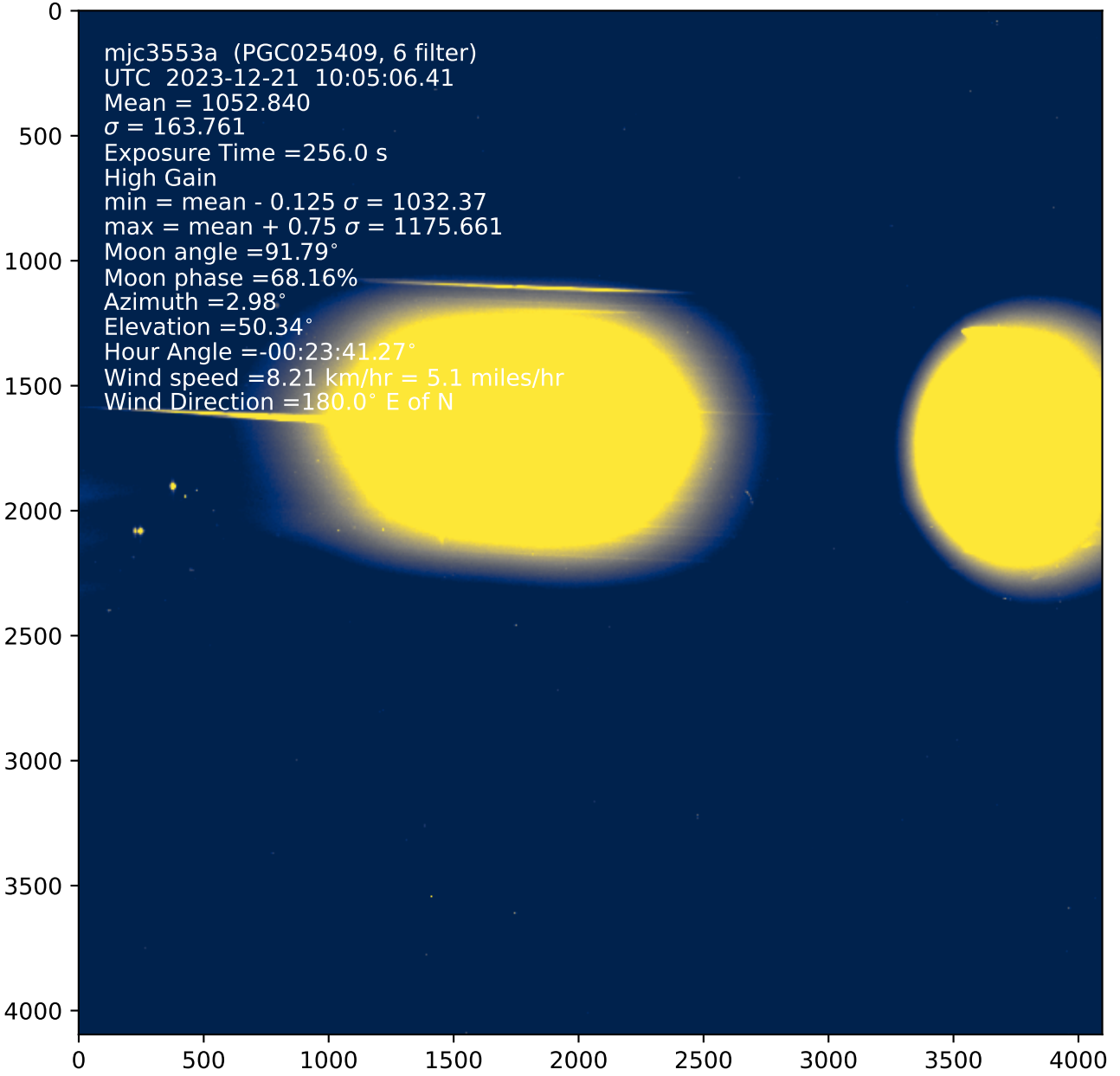

foc35520 (Focus, I filter)
UTC 2023-12-21 09:31:44.710
Mean = 1065.870
σ = 180.810
Exposure Time =64.0 s
High Gain StackPro
min = mean - 0.125 σ = 1043.269
max = mean + 0.75 σ = 1201.478
Moon angle =97.17°
Moon phase =67.91%
Azimuth =217.18°
Elevation =87.84°
Hour Angle =00:06:01.84°
Wind speed =9.01 km/hr = 5.6 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000

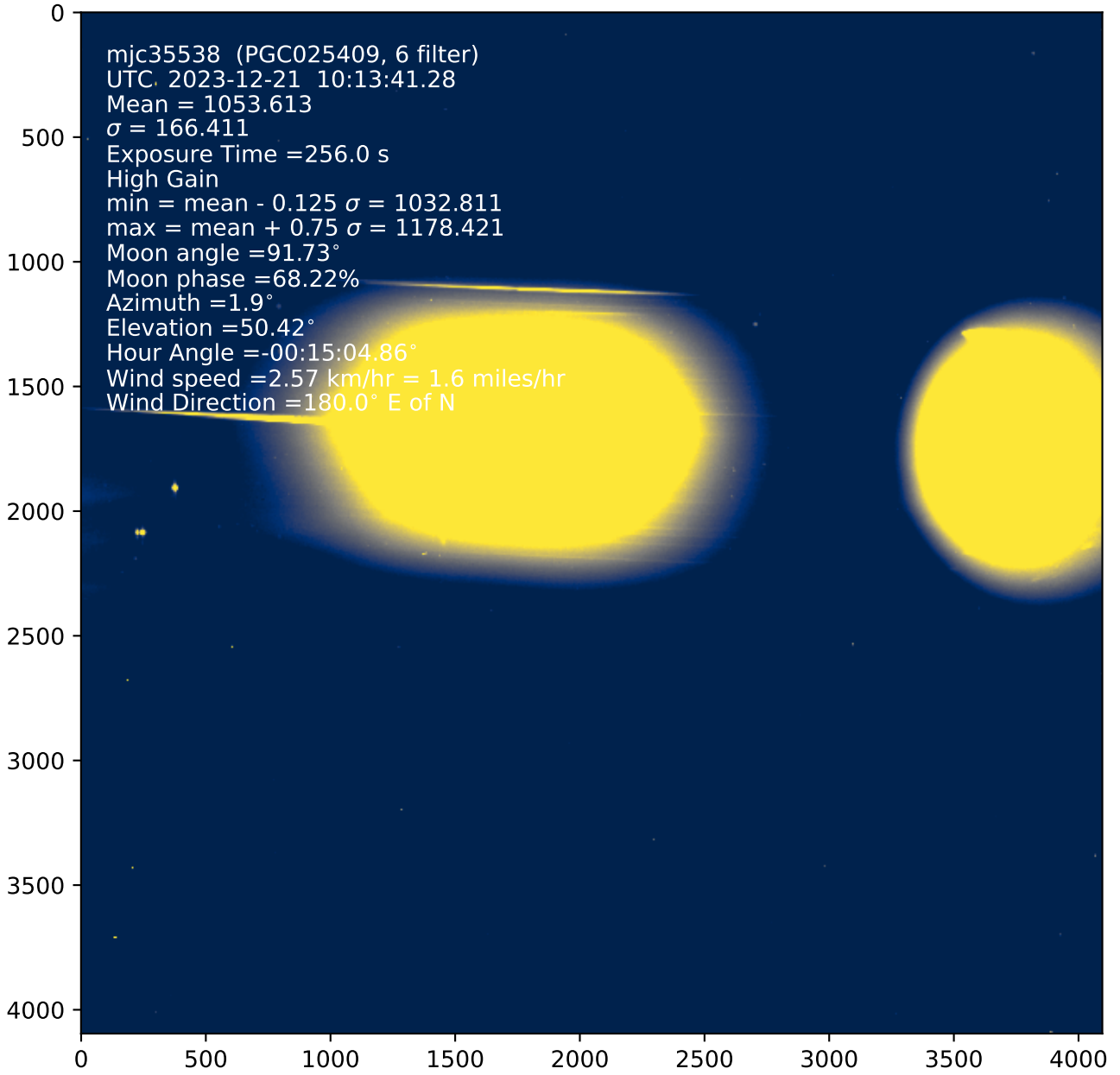

foc3551e (Focus, R filter)
UTC 2023-12-21 09:33:09.349
Mean = 1055.644
σ = 235.795
Exposure Time =64.0 s
High Gain StackPro
min = mean - 0.125 σ = 1026.169
max = mean + 0.75 σ = 1232.49
Moon angle =97.16°
Moon phase =67.92%
Azimuth =223.22°
Elevation =87.64°
Hour Angle =00:07:27.07°
Wind speed =7.89 km/hr = 4.9 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000

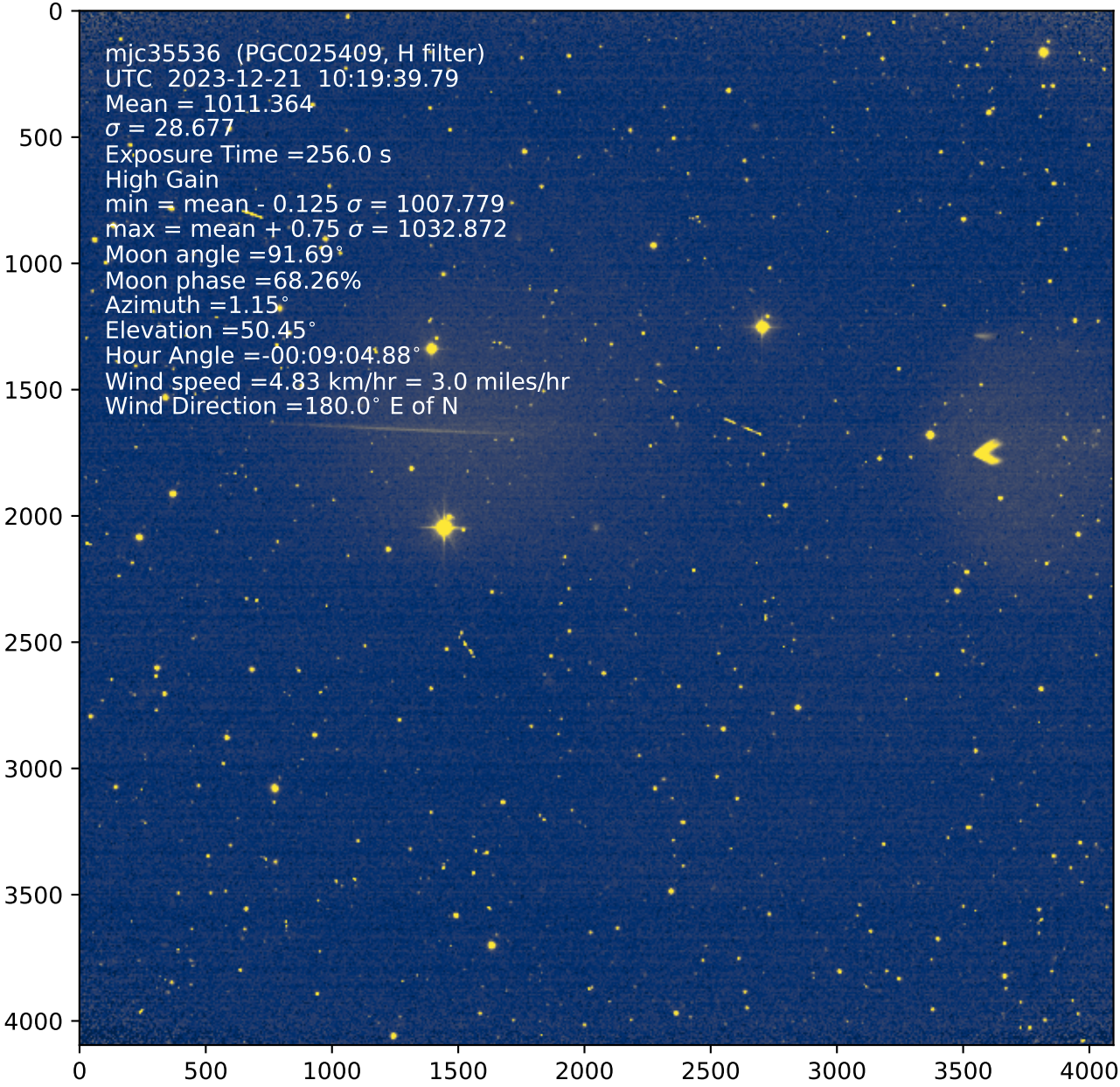

foc3551f (Focus, G filter)
UTC 2023-12-21 09:34:39.170
Mean = 1032.117
σ = 211.962
Exposure Time =64.0 s
High Gain StackPro
min = mean - 0.125 σ = 1005.622
max = mean + 0.75 σ = 1191.089
Moon angle =97.14°
Moon phase =67.93%
Azimuth =228.57°
Elevation =87.41°
Hour Angle =00:08:57.32°
Wind speed =7.08 km/hr = 4.4 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000

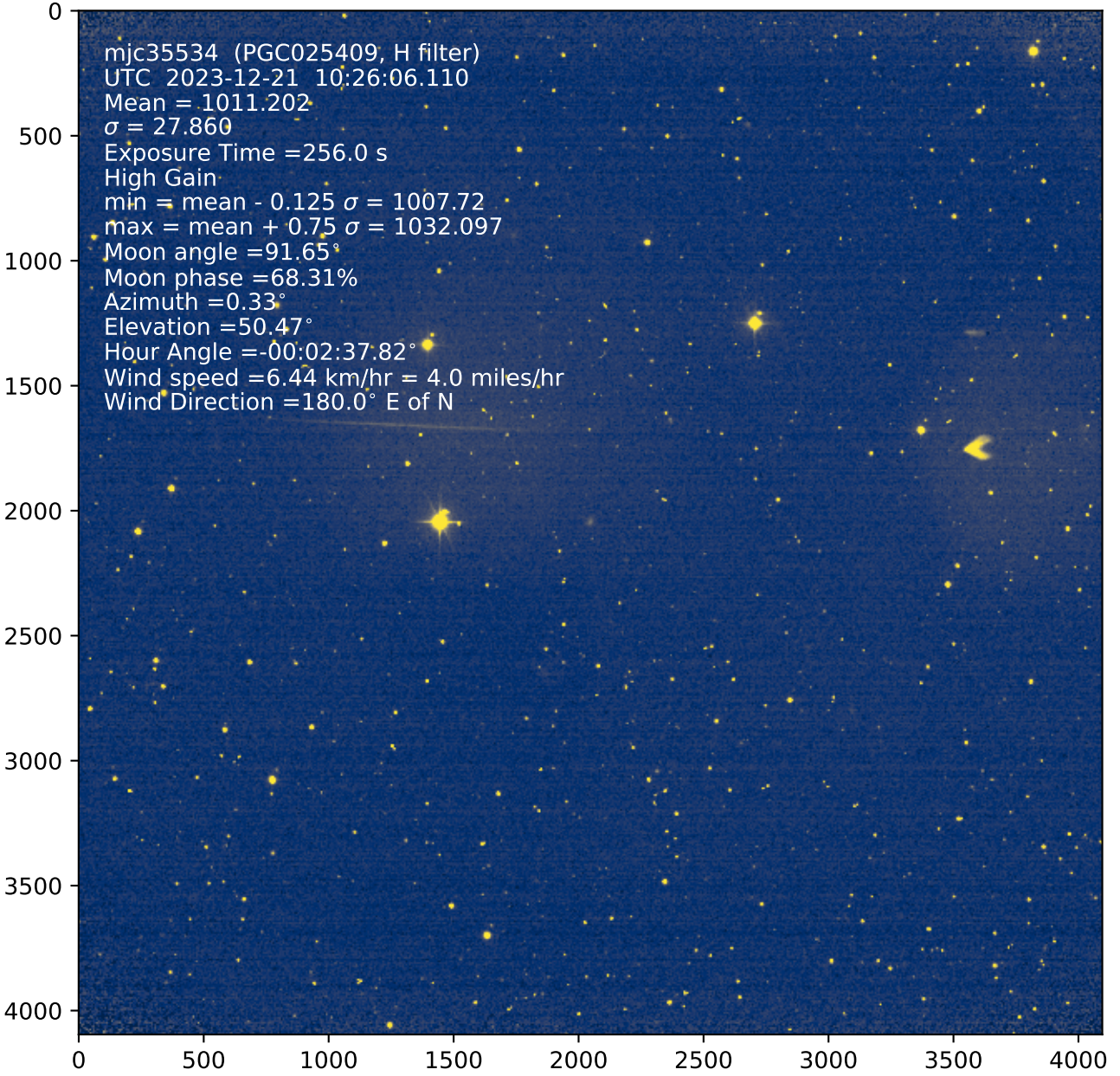

foc35523 (Focus, I filter)
UTC 2023-12-21 10:01:36.880
Mean = 1069.823
σ = 230.845
Exposure Time =64.0 s
High Gain StackPro
min = mean - 0.125 σ = 1040.968
max = mean + 0.75 σ = 1242.957
Moon angle =109.31°
Moon phase =68.13%
Azimuth =107.34°
Elevation =84.57°
Hour Angle =-00:23:57.12°
Wind speed =4.83 km/hr = 3.0 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000

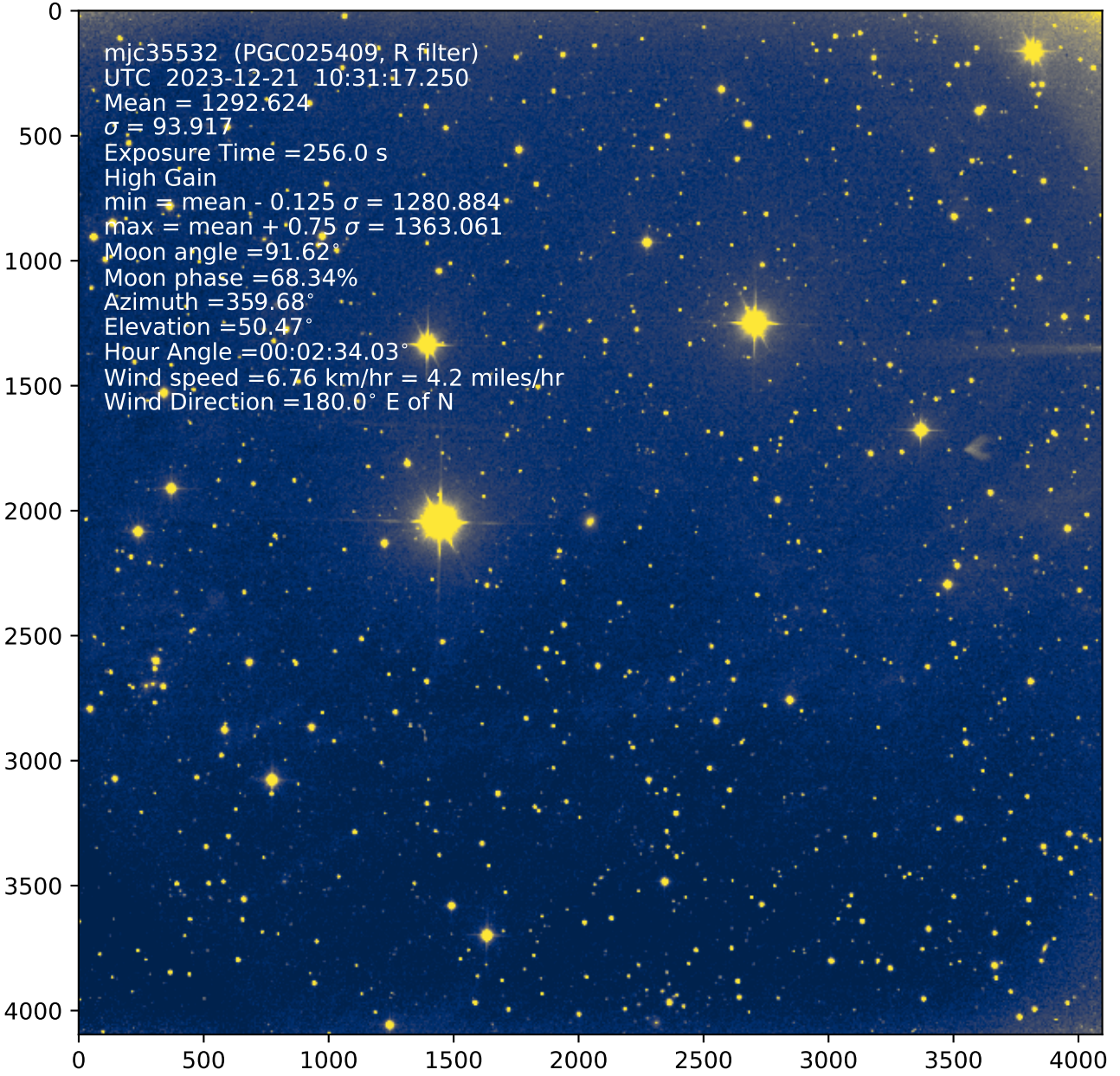

foc35522 (Focus, G filter)
UTC 2023-12-21 10:03:00.190
Mean = 1030.534
σ = 222.752
Exposure Time =64.0 s
High Gain StackPro
min = mean - 0.125 σ = 1002.69
max = mean + 0.75 σ = 1197.598
Moon angle =109.3°
Moon phase =68.14%
Azimuth =108.5°
Elevation =84.85°
Hour Angle =-00:22:33.90°
Wind speed =4.51 km/hr = 2.8 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000

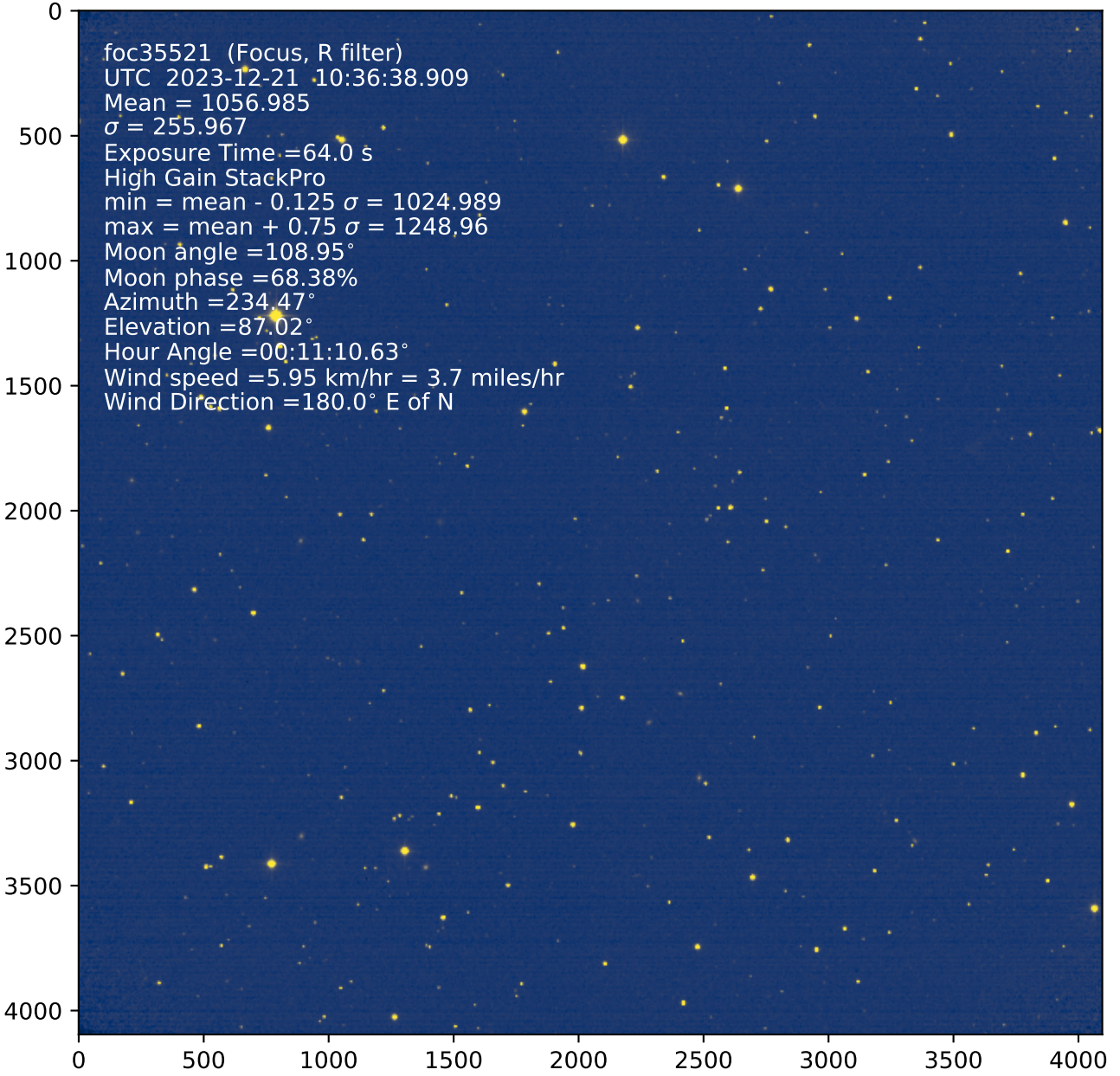

mjc3553a (PGC025409, 6 filter)
UTC 2023-12-21 10:05:06.41
Mean = 1052.840
σ = 163.761
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1032.37
max = mean + 0.75 σ = 1175.661
Moon angle =91.79°
Moon phase =68.16%
Azimuth =2.98°
Elevation =50.34°
Hour Angle =-00:23:41.27°
Wind speed =8.21 km/hr = 5.1 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000

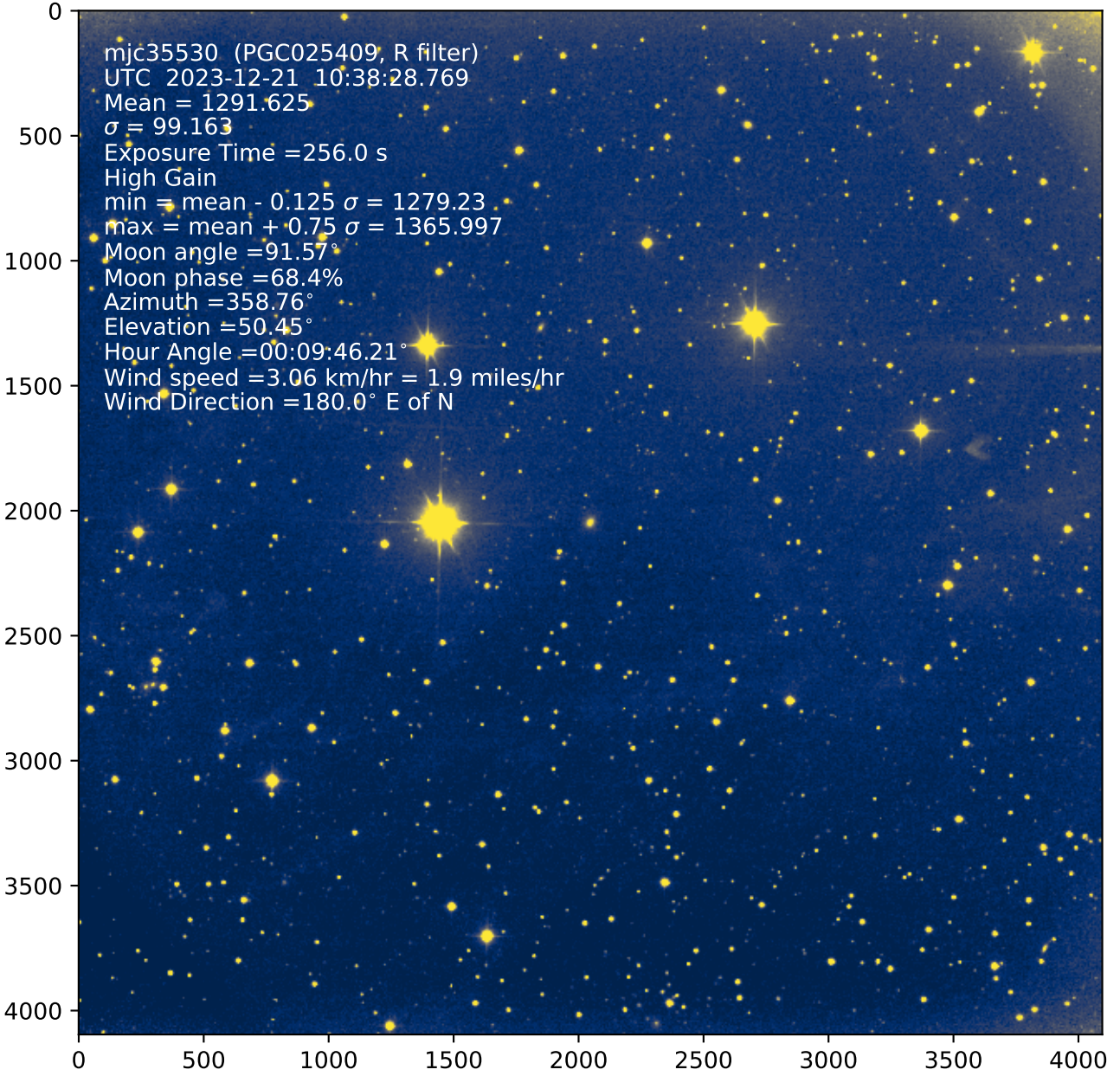

mjc35538 (PGC025409, 6 filter)
UTC 2023-12-21 10:13:41.28
Mean = 1053.613
σ = 166.411
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1032.811
max = mean + 0.75 σ = 1178.421
Moon angle =91.73°
Moon phase =68.22%
Azimuth =1.9°
Elevation =50.42°
Hour Angle =-00:15:04.86°
Wind speed =2.57 km/hr = 1.6 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000

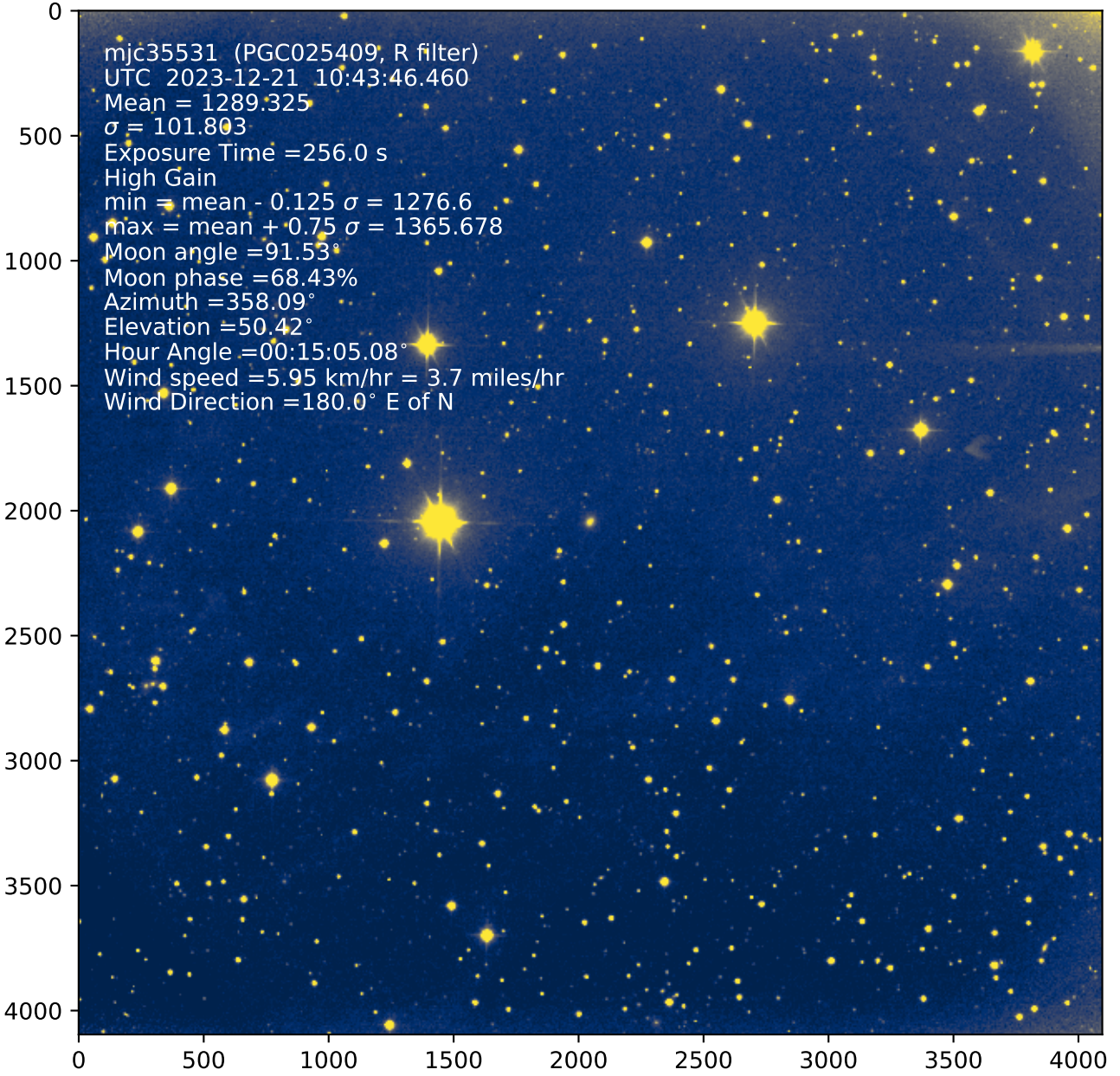

mjc35536 (PGC025409, H filter)
UTC 2023-12-21 10:19:39.79
Mean = 1011.364
σ = 28.677
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1007.779
max = mean + 0.75 σ = 1032.872
Moon angle =91.69°
Moon phase =68.26%
Azimuth =1.15°
Elevation =50.45°
Hour Angle =-00:09:04.88°
Wind speed =4.83 km/hr = 3.0 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000

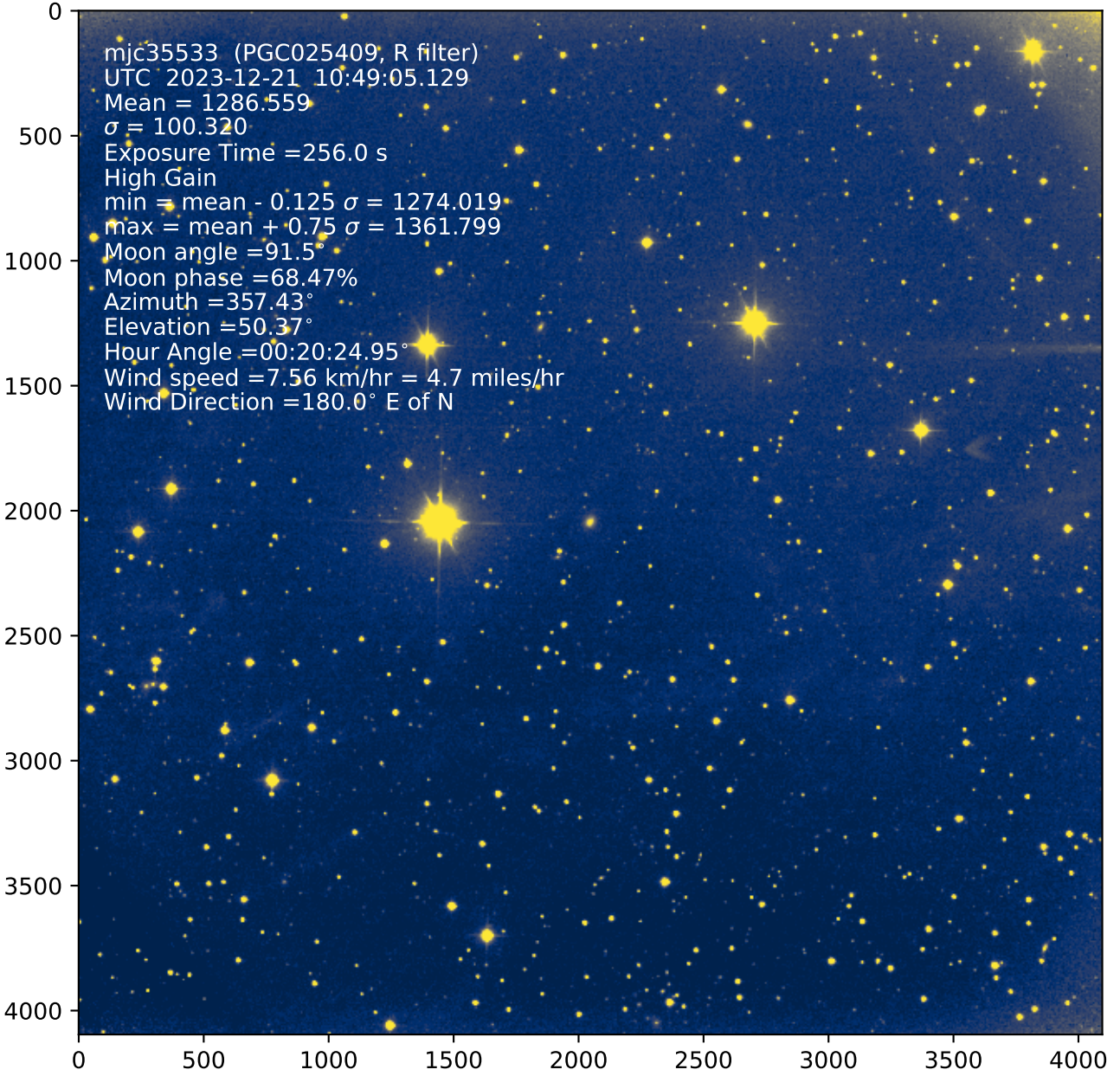

mjc35534 (PGC025409, H filter)
UTC 2023-12-21 10:26:06.110
Mean = 1011.202
σ = 27.860
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1007.72
max = mean + 0.75 σ = 1032.097
Moon angle =91.65°
Moon phase =68.31%
Azimuth =0.33°
Elevation =50.47°
Hour Angle =-00:02:37.82°
Wind speed =6.44 km/hr = 4.0 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000

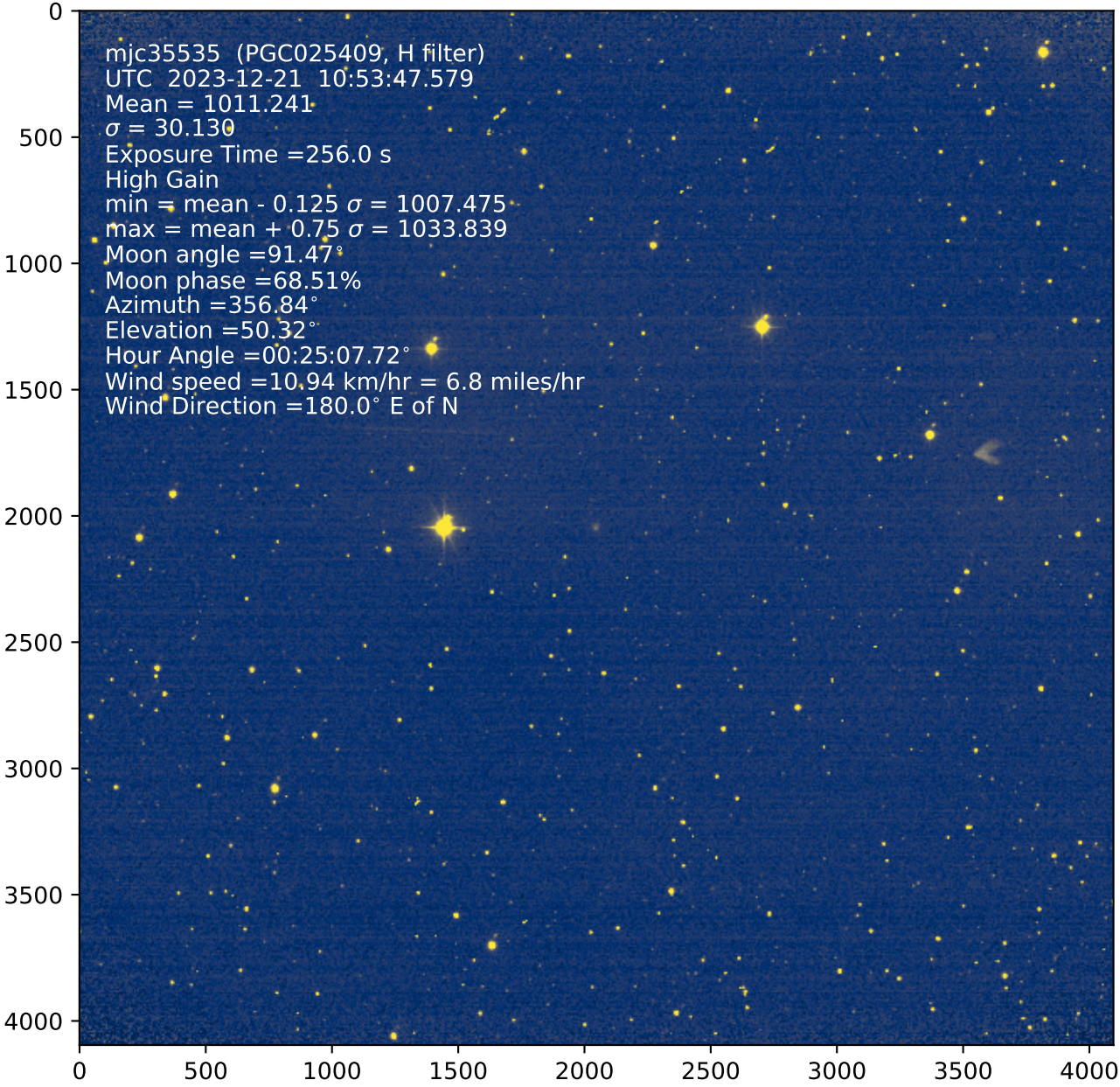

mjc35532 (PGC025409, R filter)
UTC 2023-12-21 10:31:17.250
Mean = 1292.624
σ = 93.917
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1280.884
max = mean + 0.75 σ = 1363.061
Moon angle =91.62°
Moon phase =68.34%
Azimuth =359.68°
Elevation =50.47°
Hour Angle =00:02:34.03°
Wind speed =6.76 km/hr = 4.2 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000

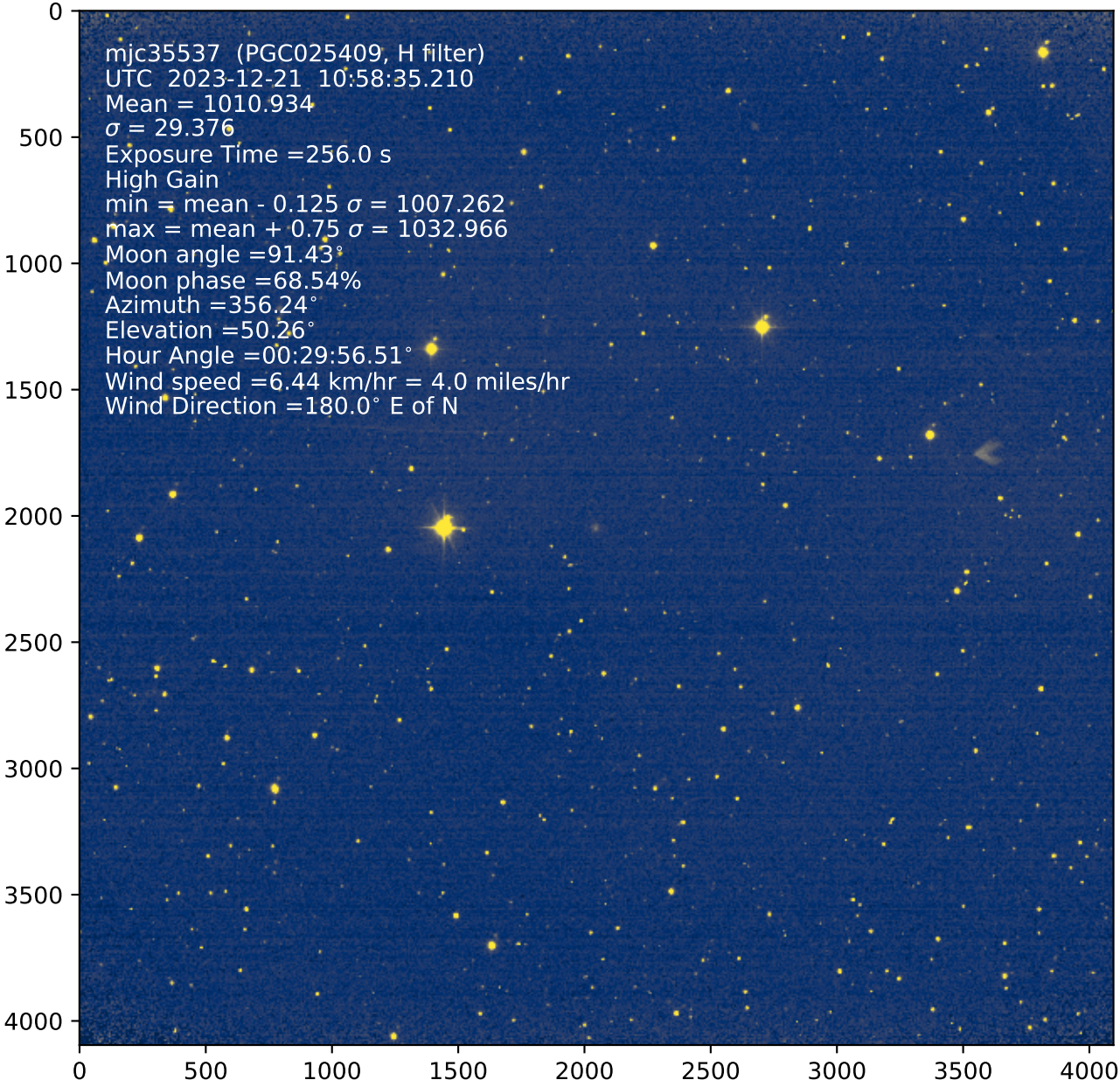

foc35521 (Focus, R filter)
UTC 2023-12-21 10:36:38.909
Mean = 1056.985
σ = 255.967
Exposure Time =64.0 s
High Gain StackPro
min = mean - 0.125 σ = 1024.989
max = mean + 0.75 σ = 1248.96
Moon angle =108.95°
Moon phase =68.38%
Azimuth =234.47°
Elevation =87.02°
Hour Angle =00:11:10.63°
Wind speed =5.95 km/hr = 3.7 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000

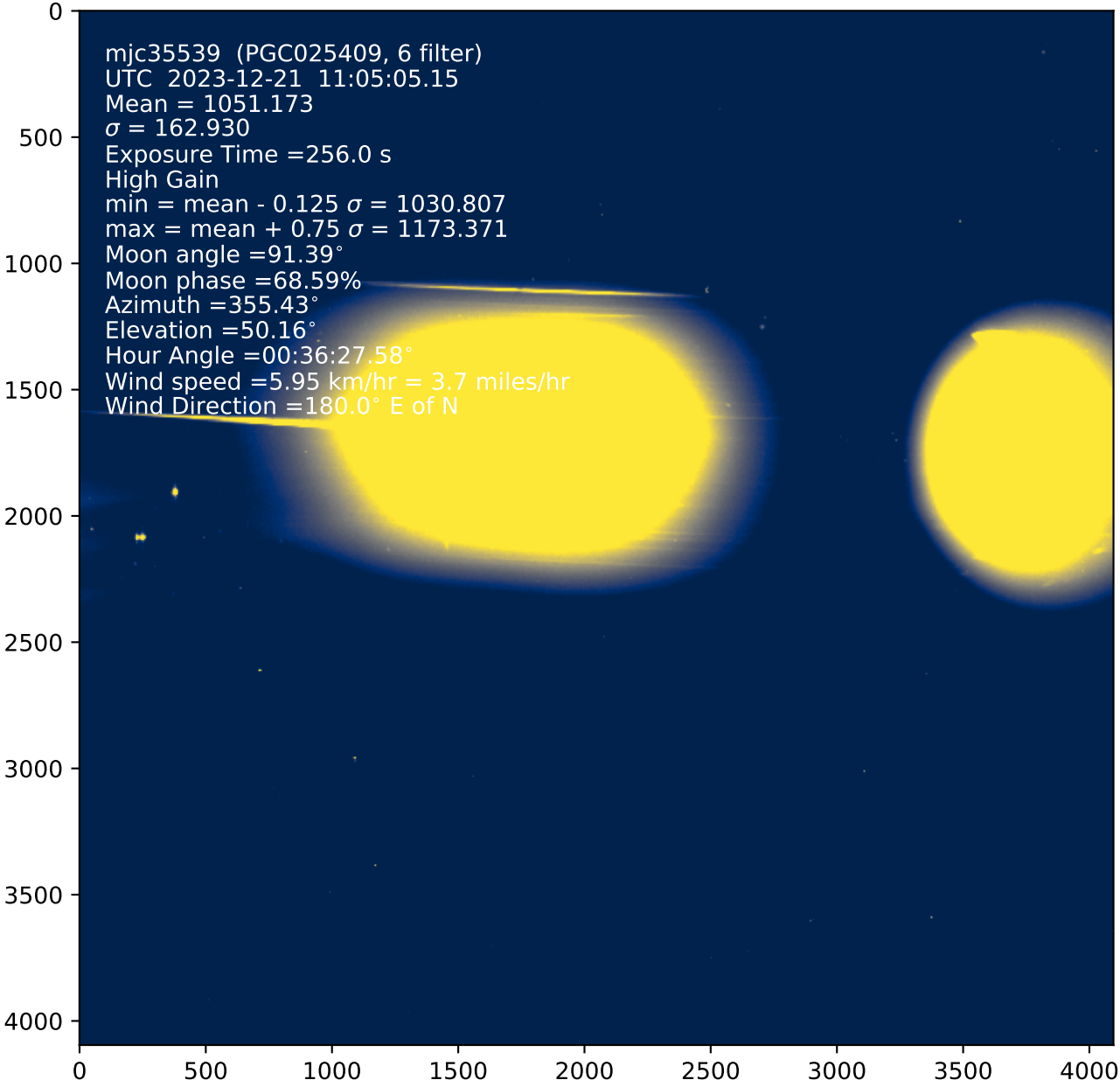

mjc35530 (PGC025409, R filter)
UTC 2023-12-21 10:38:28.769
Mean = 1291.625
σ = 99.163
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1279.23
max = mean + 0.75 σ = 1365.997
Moon angle =91.57°
Moon phase =68.4%
Azimuth =358.76°
Elevation =50.45°
Hour Angle =00:09:46.21°
Wind speed =3.06 km/hr = 1.9 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mjc35531 (PGC025409, R filter)
UTC 2023-12-21 10:43:46.460
Mean = 1289.325
σ = 101.803
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1276.6
max = mean + 0.75 σ = 1365.678
Moon angle =91.53°
Moon phase =68.43%
Azimuth =358.09°
Elevation =50.42°
Hour Angle =00:15:05.08°
Wind speed =5.95 km/hr = 3.7 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mjc35533 (PGC025409, R filter)
UTC 2023-12-21 10:49:05.129
Mean = 1286.559
σ = 100.320
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1274.019
max = mean + 0.75 σ = 1361.799
Moon angle =91.5°
Moon phase =68.47%
Azimuth =357.43°
Elevation =50.37°
Hour Angle =00:20:24.95°
Wind speed =7.56 km/hr = 4.7 miles/hr
Wind Direction =180.0° E of N
0
500
1000
1500
2000
2500
3000
3500
4000


mjc35535 (PGC025409, H filter)
UTC 2023-12-21 10:53:47.579
Mean = 1011.241
σ = 30.130
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1007.475
max = mean + 0.75 σ = 1033.839
Moon angle =91.47°
Moon phase =68.51%
Azimuth =356.84°
Elevation =50.32°
Hour Angle =00:25:07.72°
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


mjc35537 (PGC025409, H filter)
UTC 2023-12-21 10:58:35.210
Mean = 1010.934
σ = 29.376
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1007.262
max = mean + 0.75 σ = 1032.966
Moon angle =91.43°
Moon phase =68.54%
Azimuth =356.24°
Elevation =50.26°
Hour Angle =00:29:56.51°
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


mjc35539 (PGC025409, 6 filter)
UTC 2023-12-21 11:05:05.15
Mean = 1051.173
σ = 162.930
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1030.807
max = mean + 0.75 σ = 1173.371
Moon angle =91.39°
Moon phase =68.59%
Azimuth =355.43°
Elevation =50.16°
Hour Angle =00:36:27.58°
Wind speed =5.95 km/hr = 3.7 miles/hr
Wind Direction =180.0° E of N
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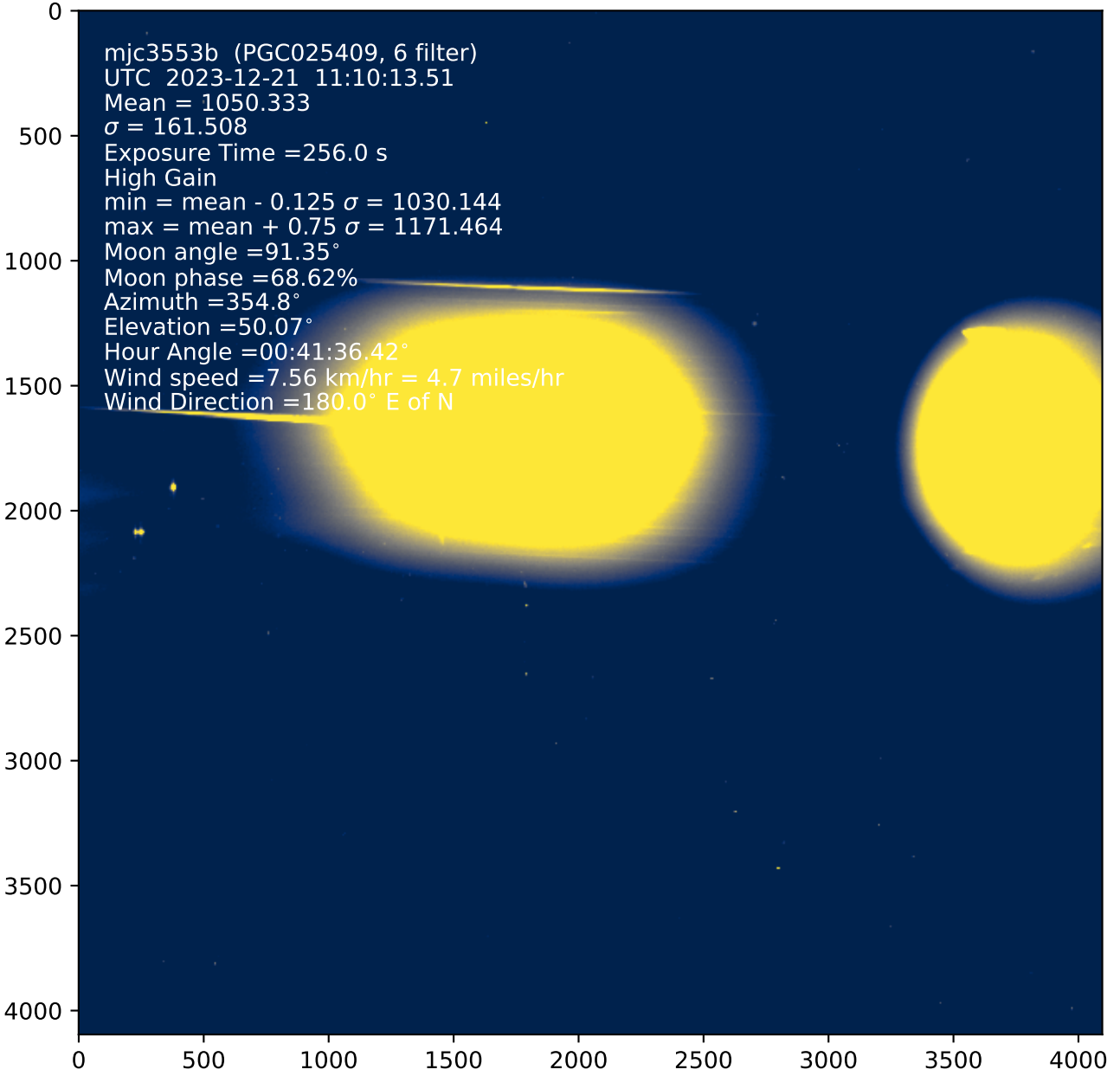
mjc3553b (PGC025409, 6 filter)
UTC 2023-12-21 11:10:13.51
Mean = 1050.333
σ = 161.508
Exposure Time =256.0 s
High Gain
min = mean - 0.125 σ = 1030.144
max = mean + 0.75 σ = 1171.464
Moon angle =91.35°
Moon phase =68.62%
Azimuth =354.8°
Elevation =50.07°
Hour Angle =00:41:36.42°
Wind speed =7.56 km/hr = 4.7 miles/hr
Wind Direction =180.0° E of N
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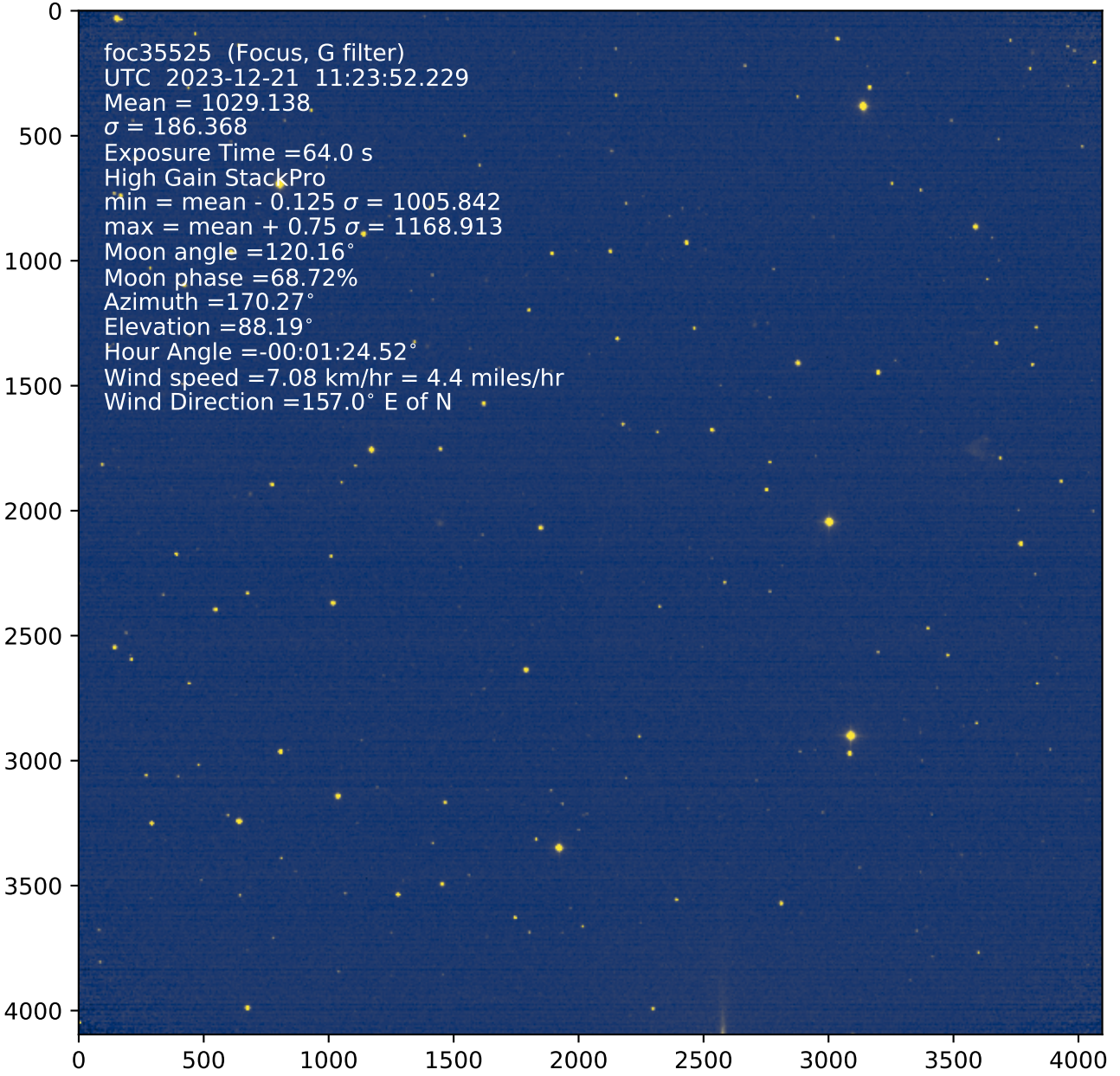
3500
4000


foc35525 (Focus, G filter)
UTC 2023-12-21 11:23:52.229
Mean = 1029.138
σ = 186.368
Exposure Time =64.0 s
High Gain StackPro
min = mean - 0.125 σ = 1005.842
max = mean + 0.75 σ = 1168.913
Moon angle =120.16°
Moon phase =68.72%
Azimuth =170.27°
Elevation =88.19°
Hour Angle =-00:01:24.52°
Wind speed =7.08 km/hr = 4.4 miles/hr
Wind Direction =157.0° E of N
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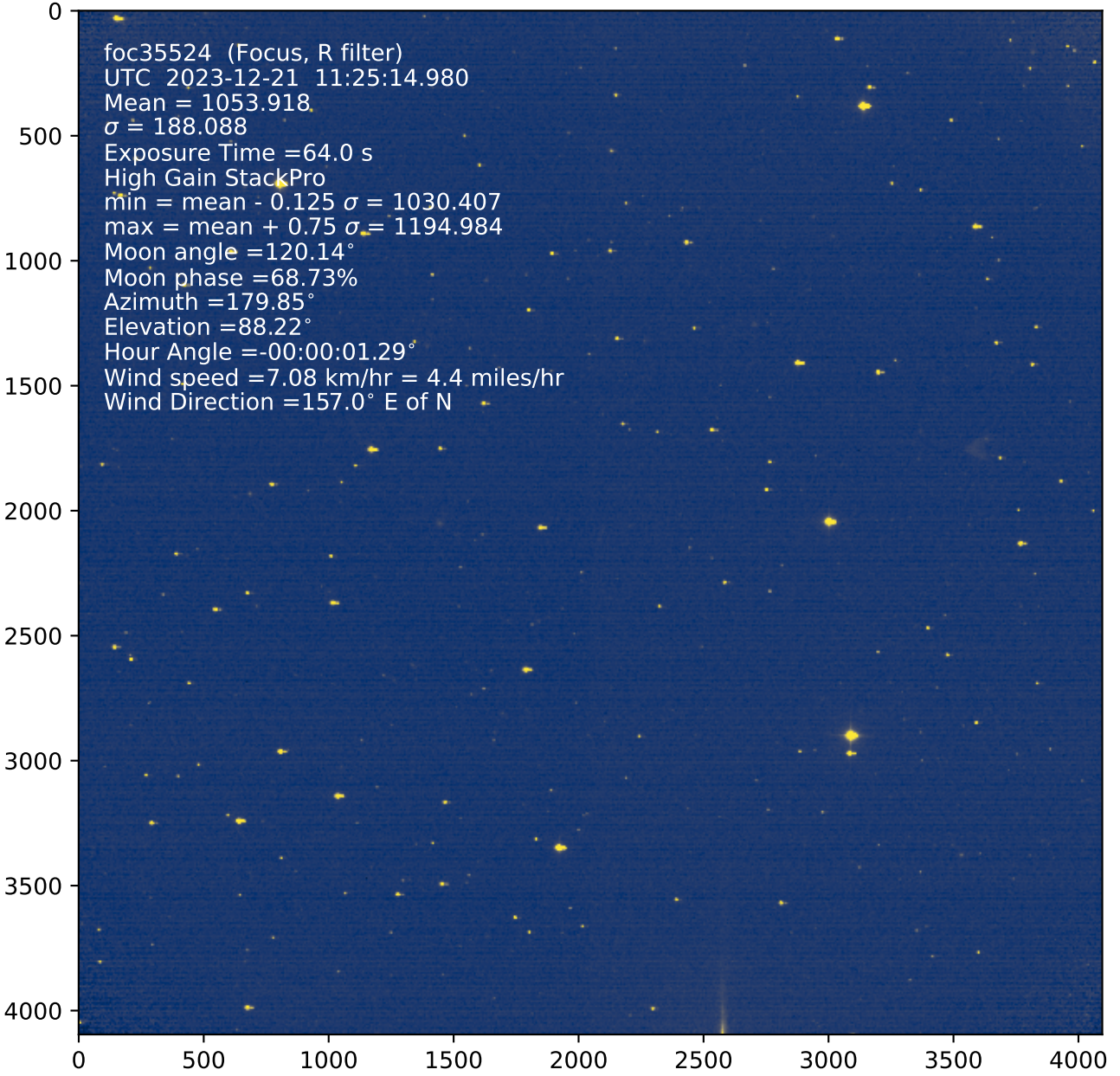
foc35524 (Focus, R filter)
UTC 2023-12-21 11:25:14.980
Mean = 1053.918
σ = 188.088
Exposure Time =64.0 s
High Gain StackPro
min = mean - 0.125 σ = 1030.407
max = mean + 0.75 σ = 1194.984
Moon angle =120.14°
Moon phase =68.73%
Azimuth =179.85°
Elevation =88.22°
Hour Angle =-00:00:01.29°
Wind speed =7.08 km/hr = 4.4 miles/hr
Wind Direction =157.0° E of N
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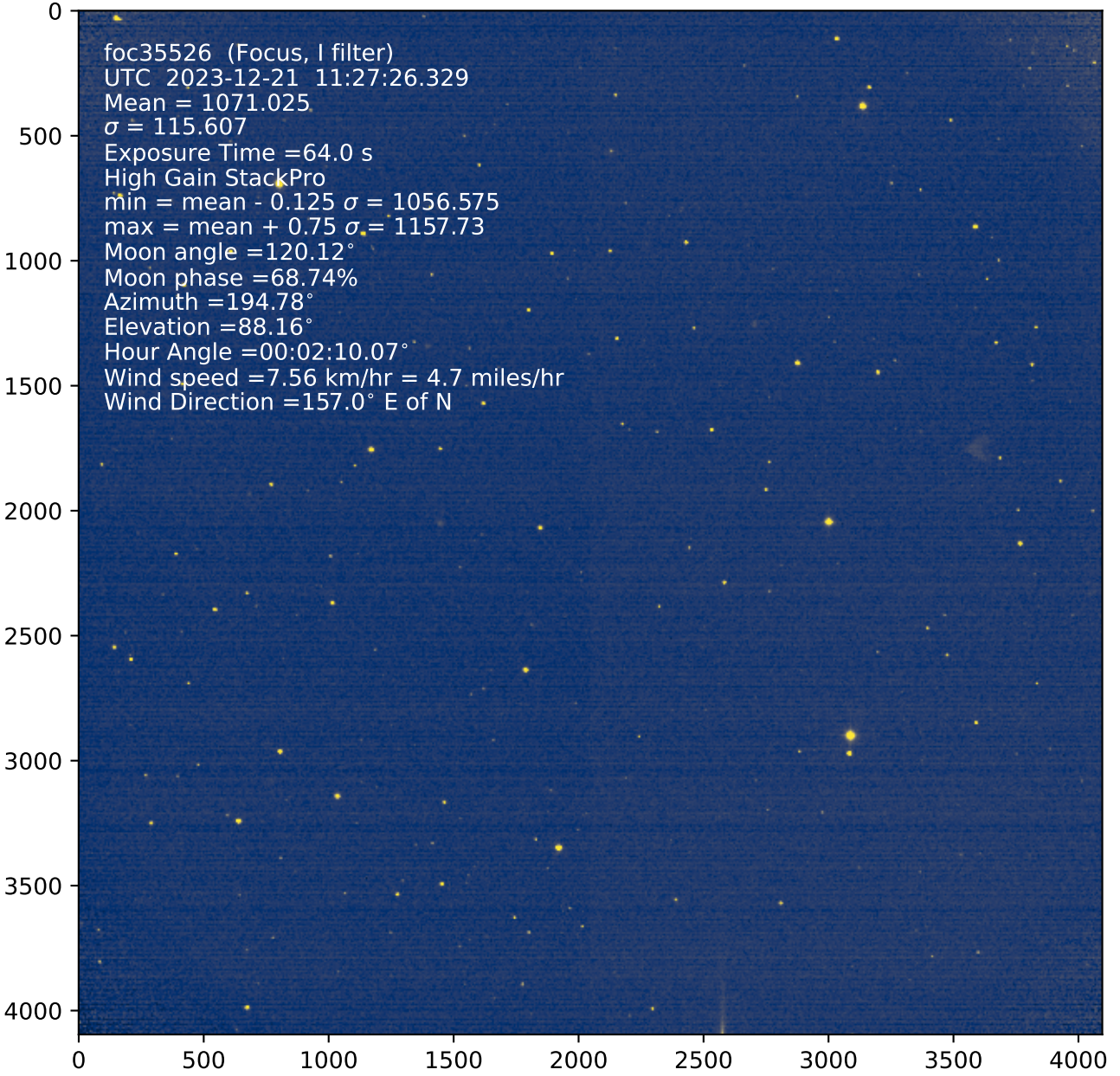
4000


foc35526 (Focus, I filter)
UTC 2023-12-21 11:27:26.329
Mean = 1071.025
σ = 115.607
Exposure Time =64.0 s
High Gain StackPro
min = mean - 0.125 σ = 1056.575
max = mean + 0.75 σ = 1157.73
Moon angle =120.12°
Moon phase =68.74%
Azimuth =194.78°
Elevation =88.16°
Hour Angle =00:02:10.07°
Wind speed =7.56 km/hr = 4.7 miles/hr
Wind Direction =157.0° E of N
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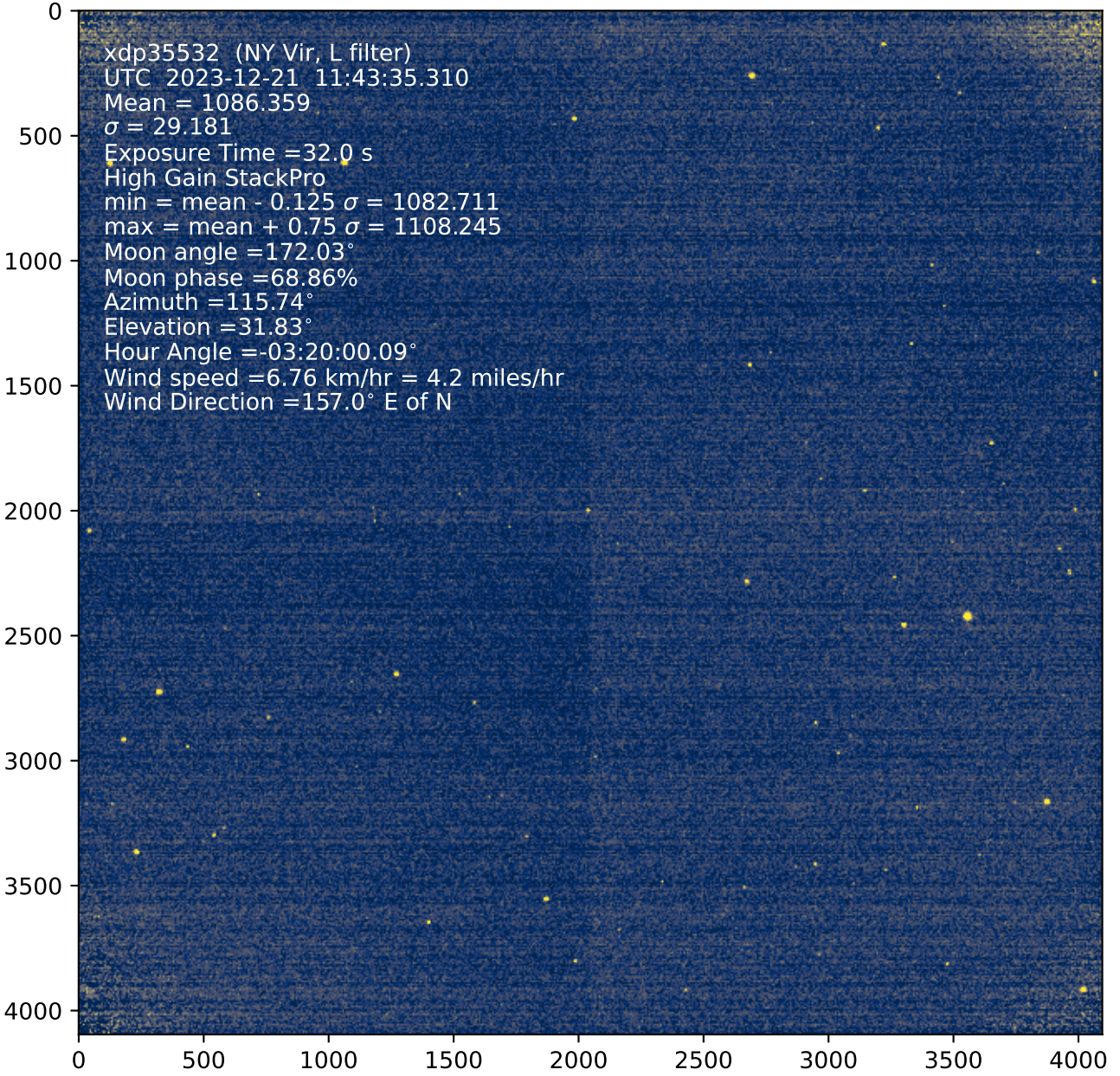
xdp35532 (NY Vir, L filter)
UTC 2023-12-21 11:43:35.310
Mean = 1086.359
σ = 29.181
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1082.711
max = mean + 0.75 σ = 1108.245
Moon angle =172.03˚
Moon phase =68.86%
Azimuth =115.74˚
Elevation =31.83˚
Hour Angle =-03:20:00.09˚
Wind speed =6.76 km/hr = 4.2 miles/hr
Wind Direction =157.0˚ E of N
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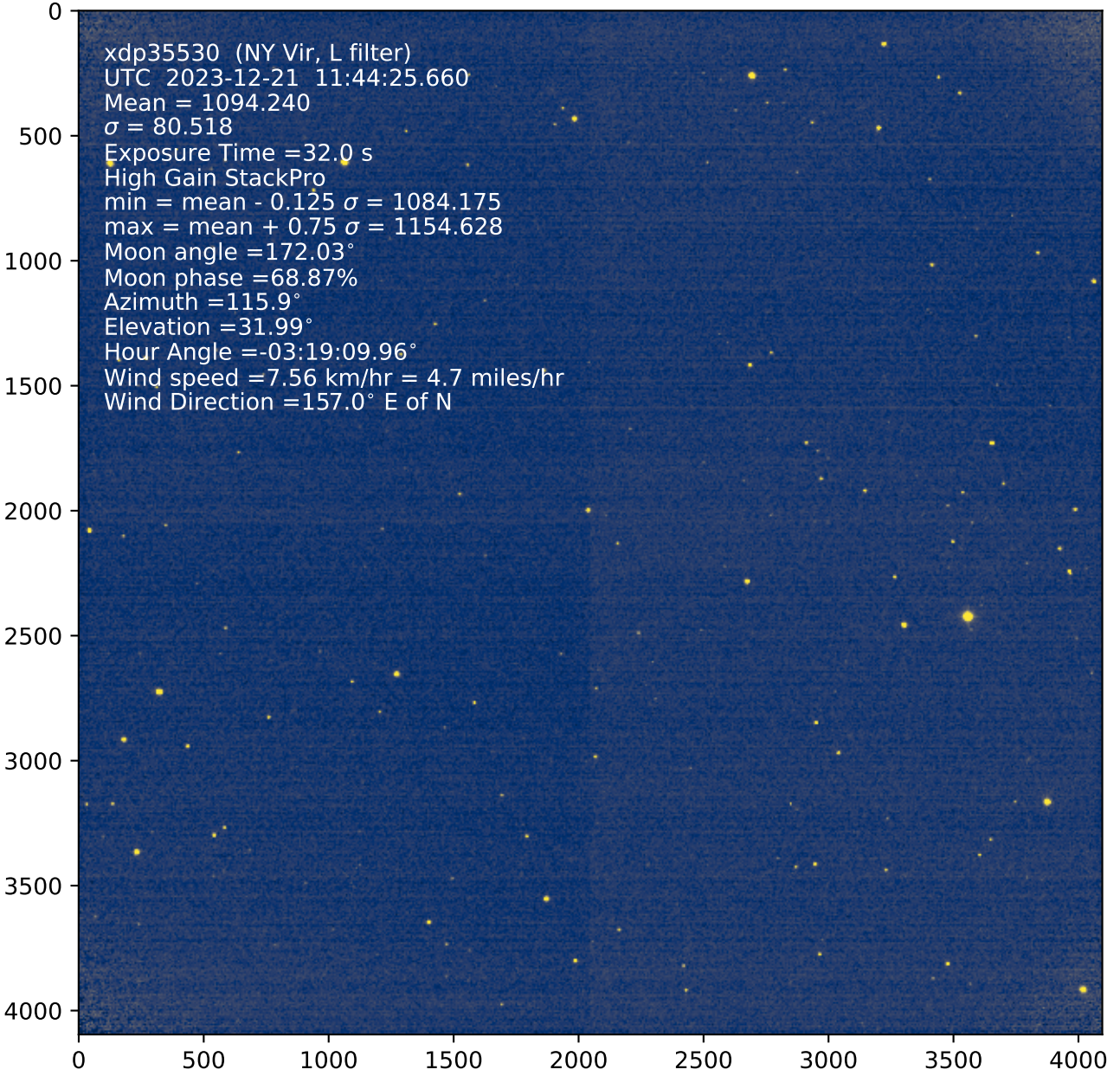
4000


xdp35530 (NY Vir, L filter)
UTC 2023-12-21 11:44:25.660
Mean = 1094.240
σ = 80.518
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1084.175
max = mean + 0.75 σ = 1154.628
Moon angle =172.03˚
Moon phase =68.87%
Azimuth =115.9˚
Elevation =31.99˚
Hour Angle =-03:19:09.96˚
Wind speed =7.56 km/hr = 4.7 miles/hr
Wind Direction =157.0˚ E of N
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3000
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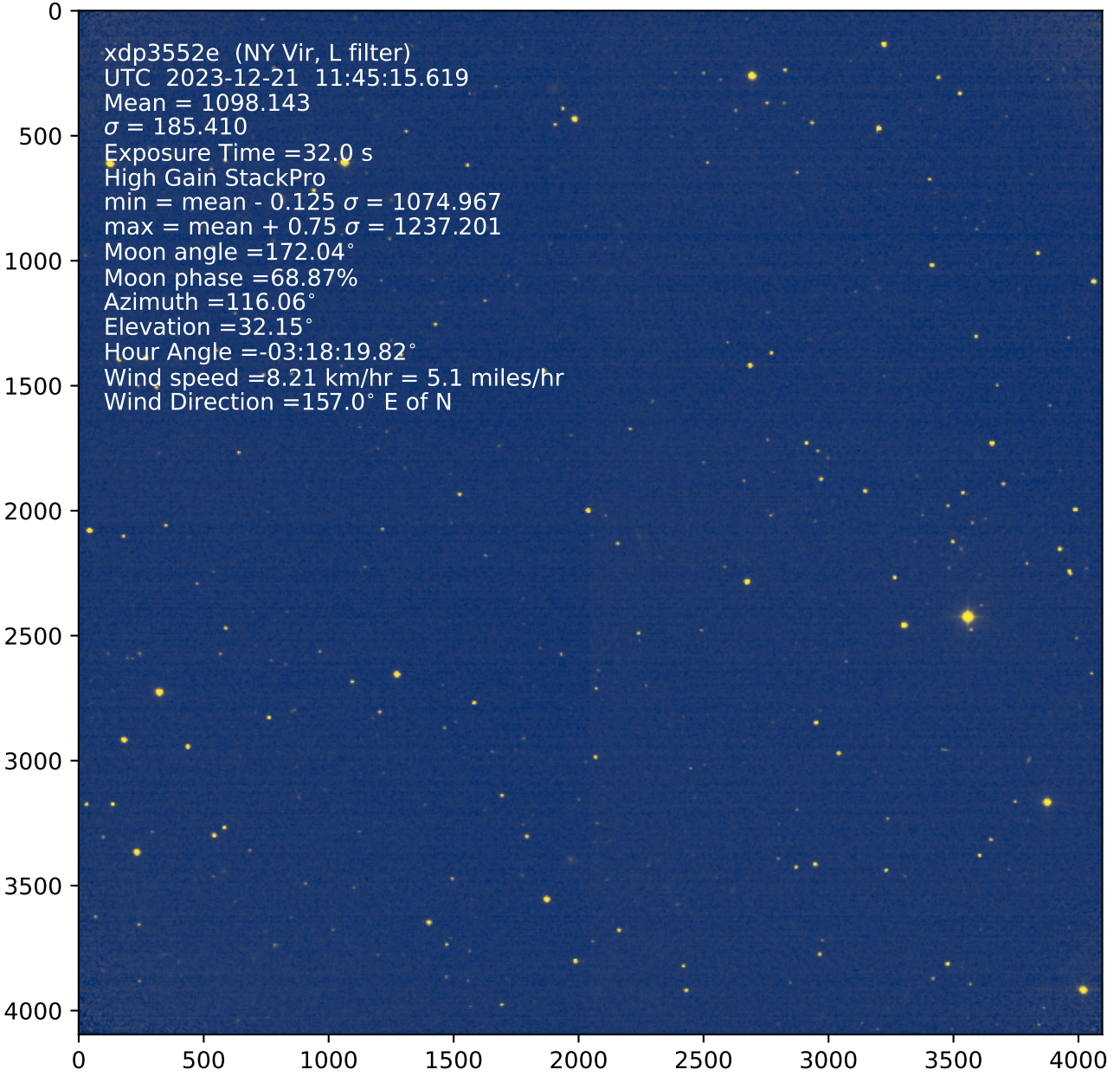
4000


xdp3552e (NY Vir, L filter)
UTC 2023-12-21 11:45:15.619
Mean = 1098.143
σ = 185.410
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1074.967
max = mean + 0.75 σ = 1237.201
Moon angle =172.04°
Moon phase =68.87%
Azimuth =116.06°
Elevation =32.15°
Hour Angle =-03:18:19.82°
Wind speed =8.21 km/hr = 5.1 miles/hr
Wind Direction =157.0° E of N
0
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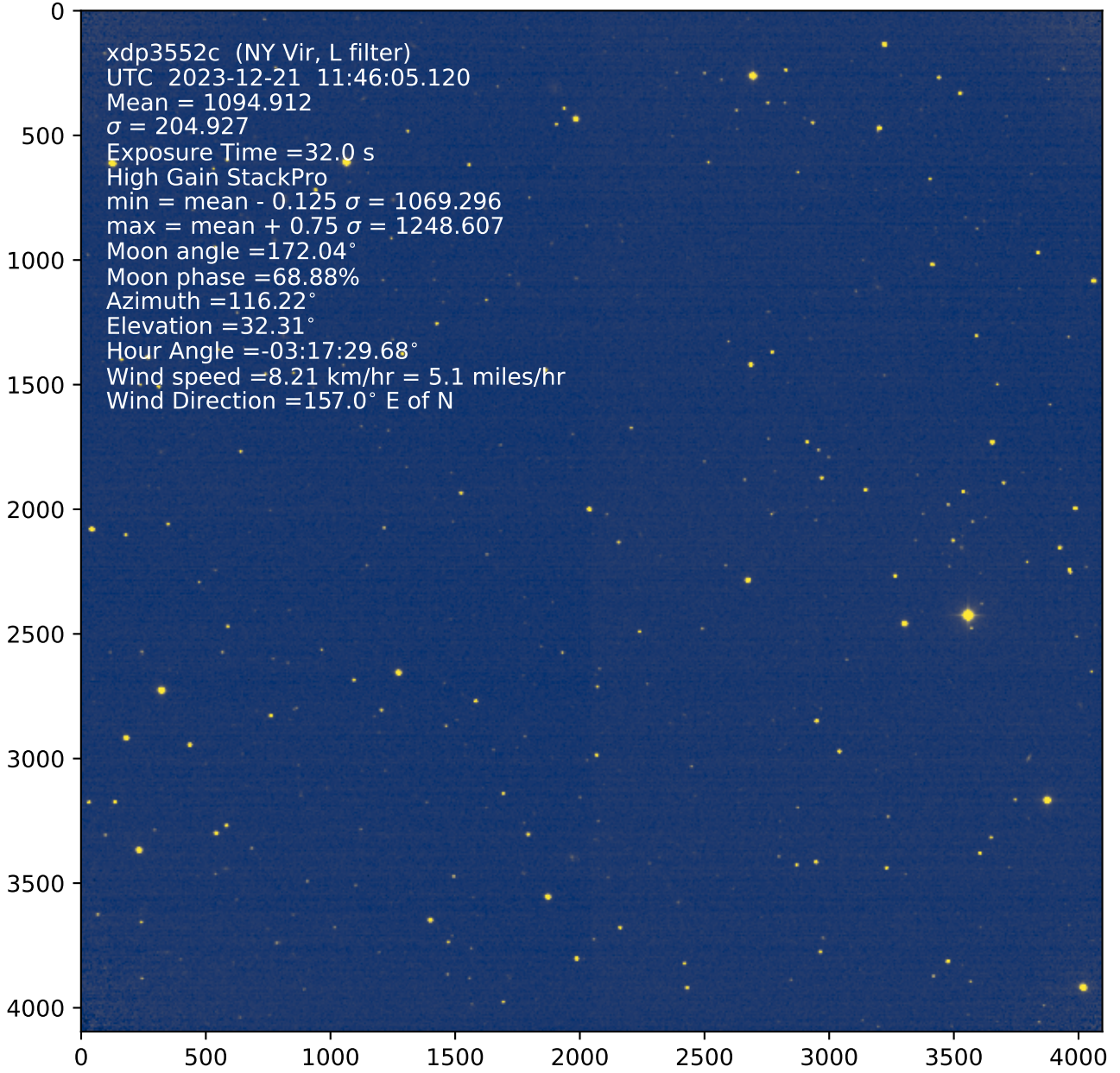
2500
3000
3500
4000


xdp3552c (NY Vir, L filter)
UTC 2023-12-21 11:46:05.120
Mean = 1094.912
σ = 204.927
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1069.296
max = mean + 0.75 σ = 1248.607
Moon angle =172.04°
Moon phase =68.88%
Azimuth =116.22°
Elevation =32.31°
Hour Angle =-03:17:29.68°
Wind speed =8.21 km/hr = 5.1 miles/hr
Wind Direction =157.0° E of N
0
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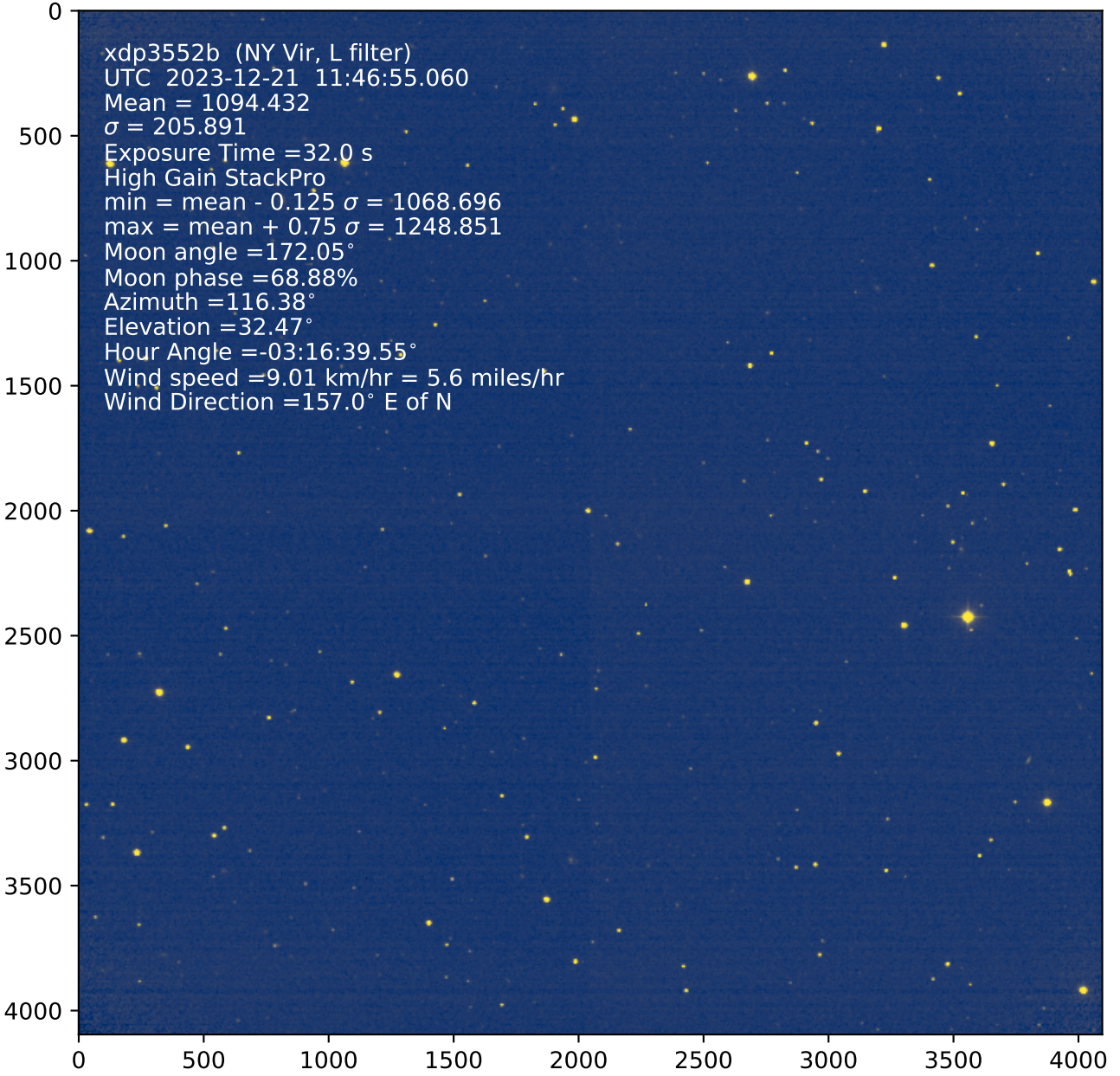
2500
3000
3500
4000


xdp3552b (NY Vir, L filter)
UTC 2023-12-21 11:46:55.060
Mean = 1094.432
σ = 205.891
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1068.696
max = mean + 0.75 σ = 1248.851
Moon angle =172.05°
Moon phase =68.88%
Azimuth =116.38°
Elevation =32.47°
Hour Angle =-03:16:39.55°
Wind speed =9.01 km/hr = 5.6 miles/hr
Wind Direction =157.0° E of N
0
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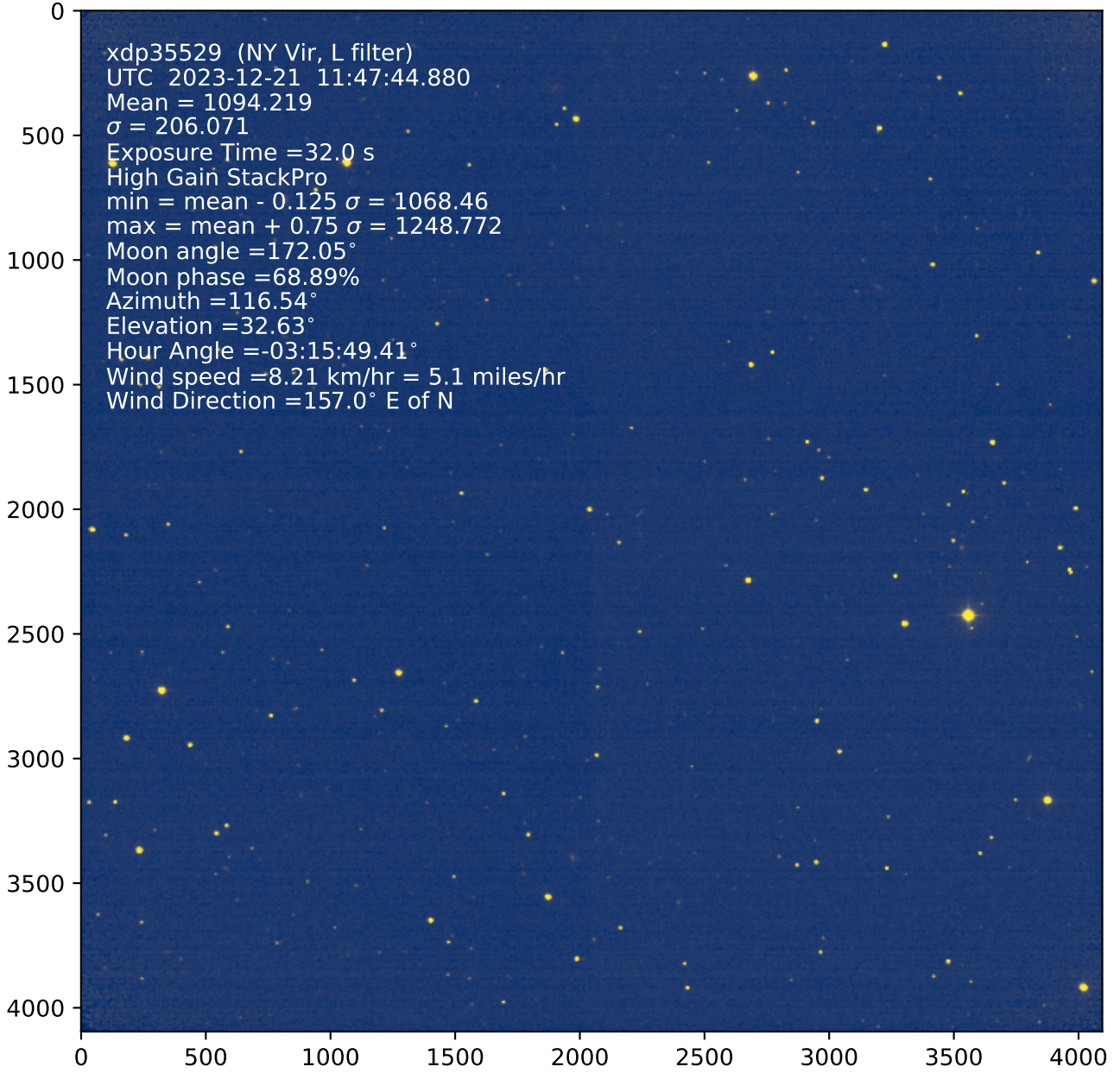
2500
3000
3500
4000


xdp35529 (NY Vir, L filter)
UTC 2023-12-21 11:47:44.880
Mean = 1094.219
σ = 206.071
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1068.46
max = mean + 0.75 σ = 1248.772
Moon angle =172.05°
Moon phase =68.89%
Azimuth =116.54°
Elevation =32.63°
Hour Angle =-03:15:49.41°
Wind speed =8.21 km/hr = 5.1 miles/hr
Wind Direction =157.0° E of N
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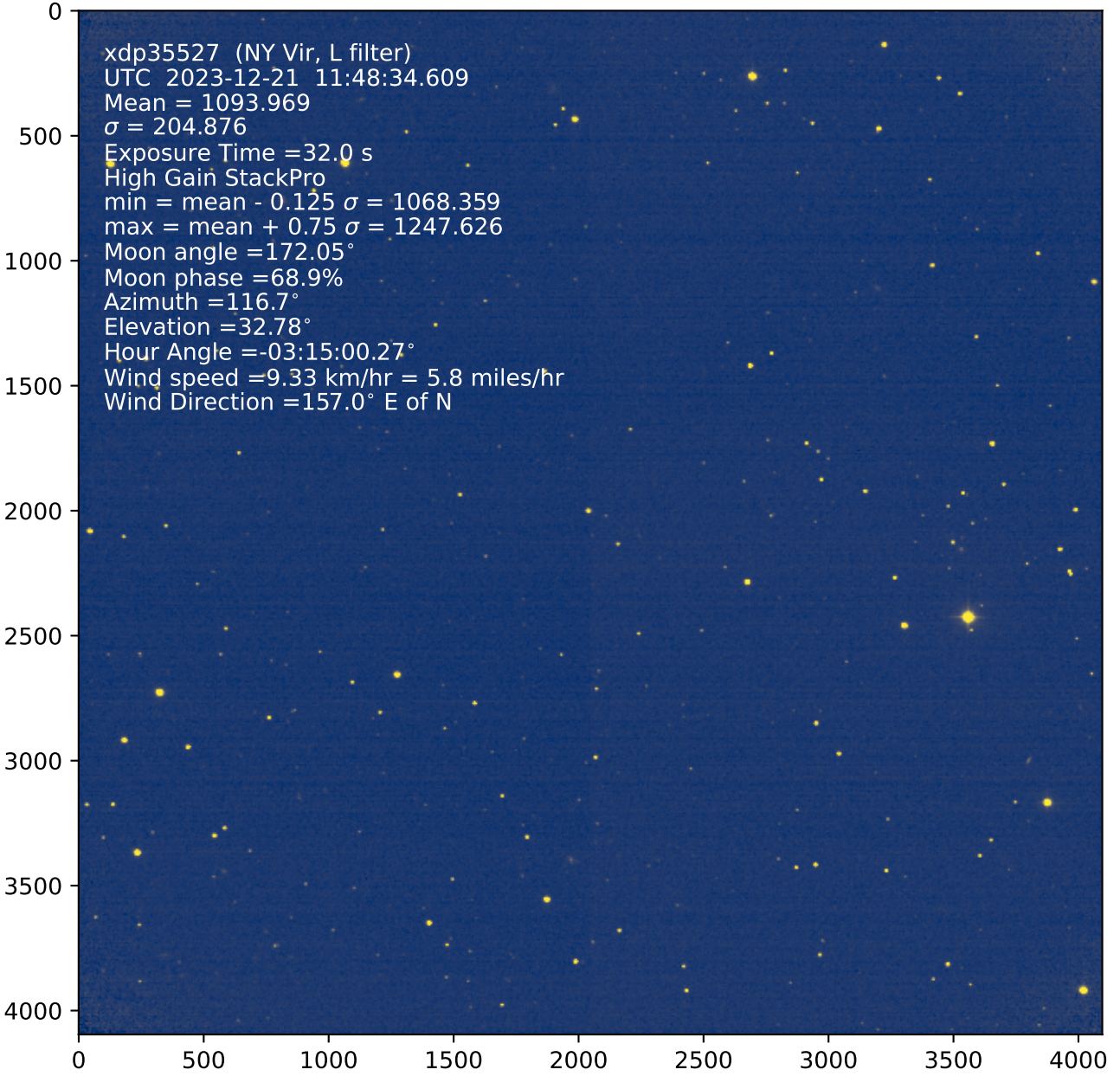
2500
3000
3500
4000


xdp35527 (NY Vir, L filter)
UTC 2023-12-21 11:48:34.609
Mean = 1093.969
σ = 204.876
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1068.359
max = mean + 0.75 σ = 1247.626
Moon angle =172.05°
Moon phase =68.9%
Azimuth =116.7°
Elevation =32.78°
Hour Angle =-03:15:00.27°
Wind speed =9.33 km/hr = 5.8 miles/hr
Wind Direction =157.0° E of N
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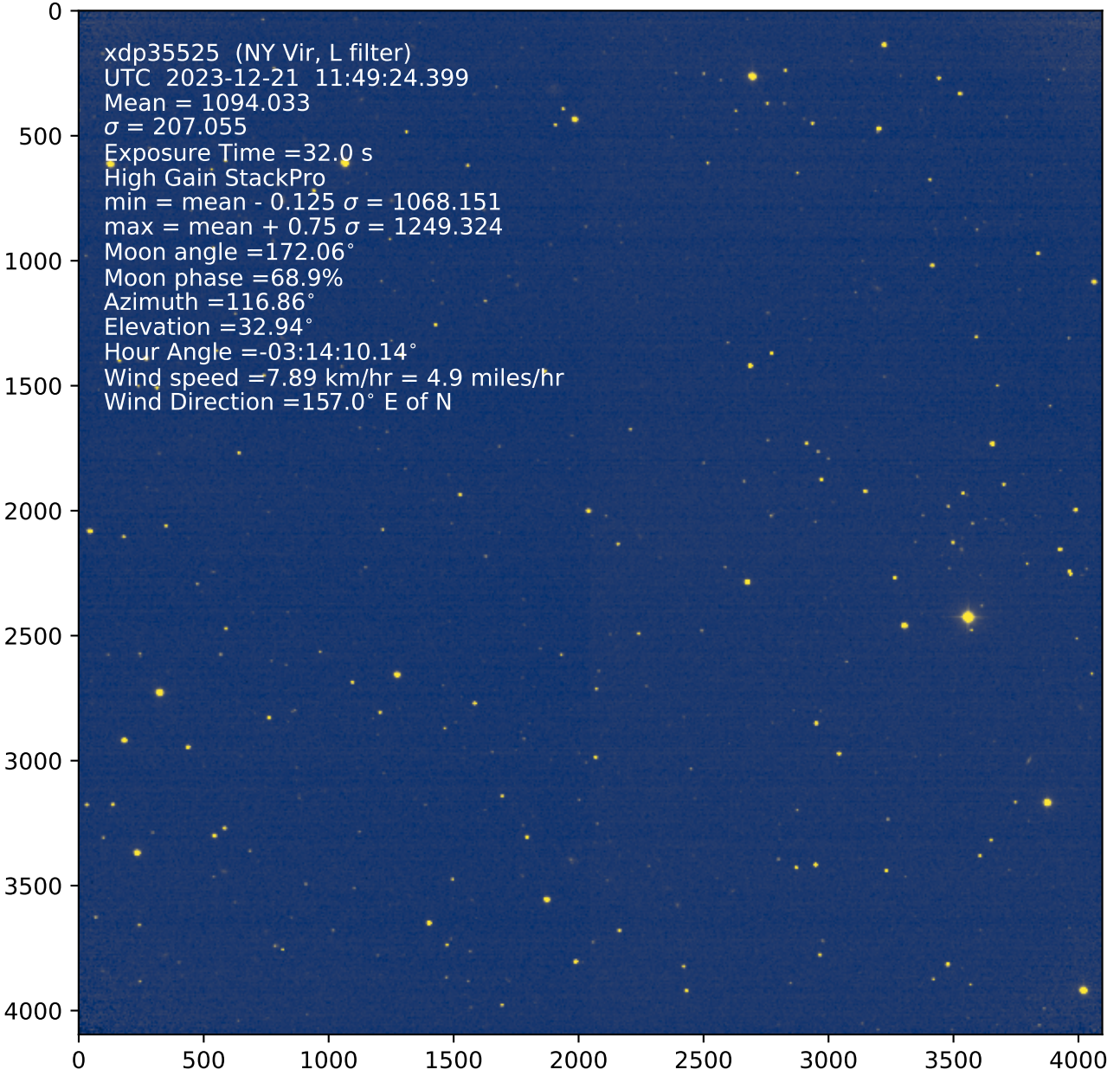
4000


xdp35525 (NY Vir, L filter)
UTC 2023-12-21 11:49:24.399
Mean = 1094.033
σ = 207.055
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1068.151
max = mean + 0.75 σ = 1249.324
Moon angle =172.06˚
Moon phase =68.9%
Azimuth =116.86˚
Elevation =32.94˚
Hour Angle =-03:14:10.14˚
Wind speed =7.89 km/hr = 4.9 miles/hr
Wind Direction =157.0˚ E of N
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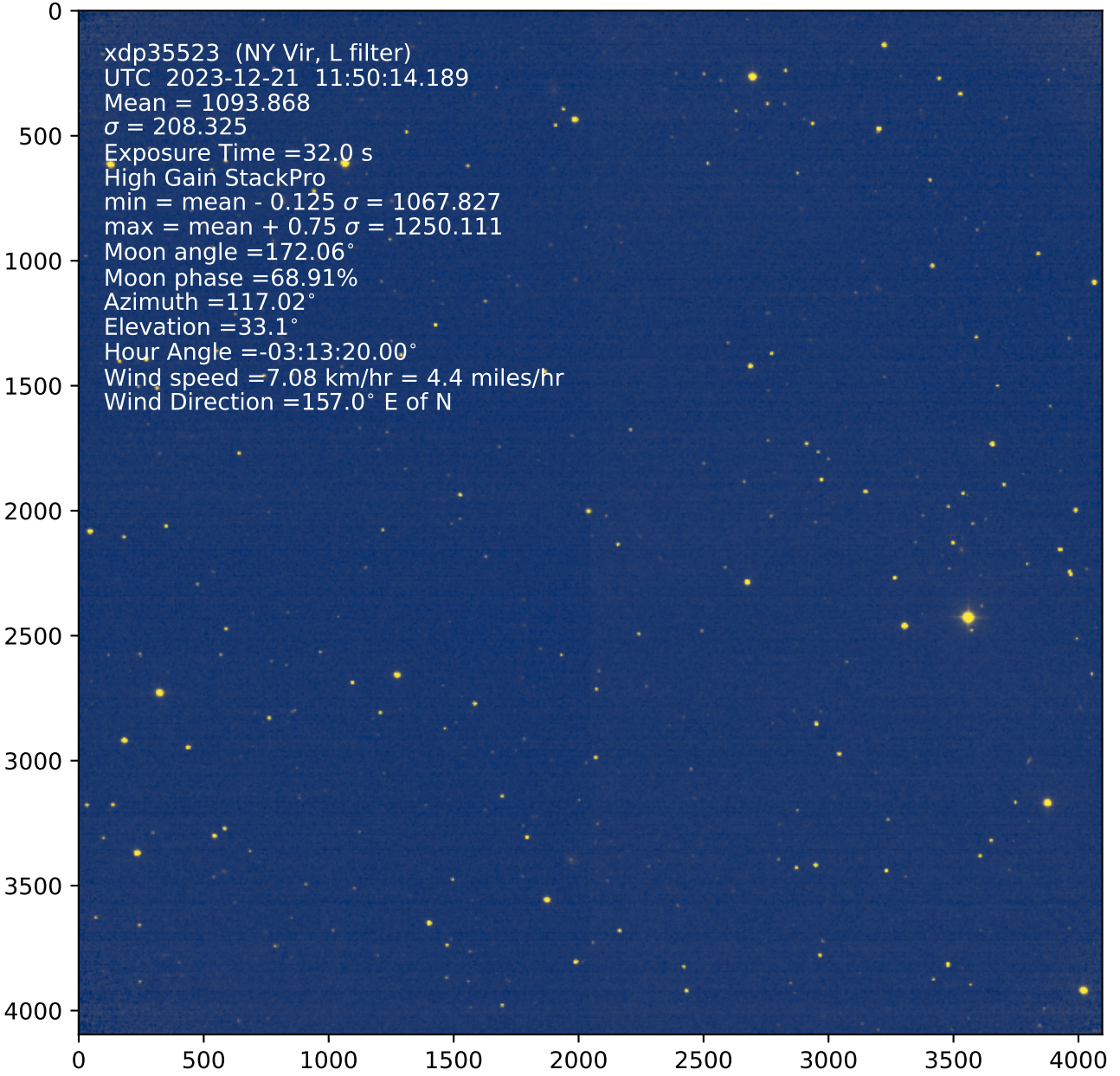
3500
4000


xdp35523 (NY Vir, L filter)
UTC 2023-12-21 11:50:14.189
Mean = 1093.868
σ = 208.325
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1067.827
max = mean + 0.75 σ = 1250.111
Moon angle =172.06˚
Moon phase =68.91%
Azimuth =117.02˚
Elevation =33.1˚
Hour Angle =-03:13:20.00˚
Wind speed =7.08 km/hr = 4.4 miles/hr
Wind Direction =157.0˚ E of N
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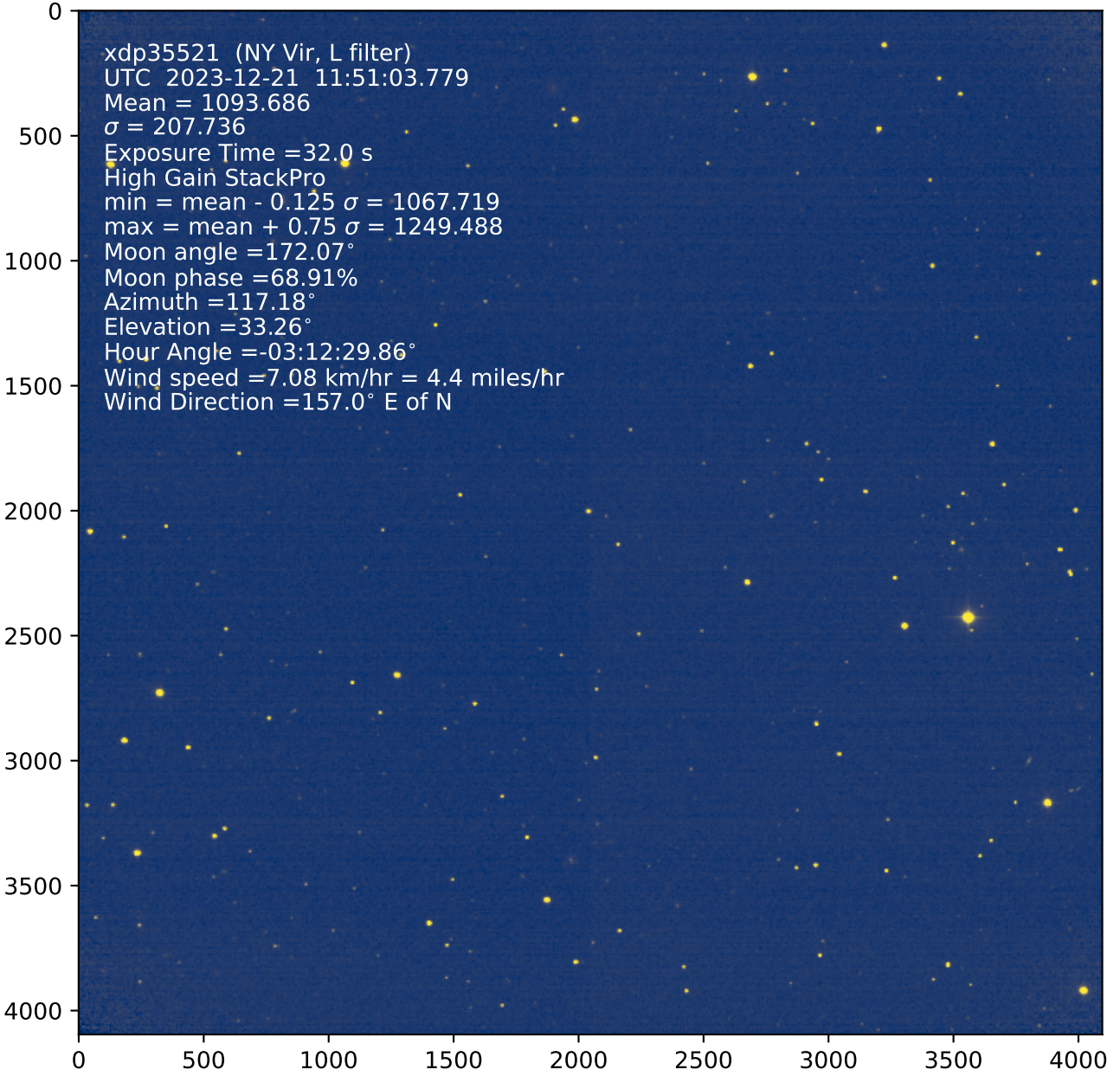
xdp35521 (NY Vir, L filter)
UTC 2023-12-21 11:51:03.779
Mean = 1093.686
σ = 207.736
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1067.719
max = mean + 0.75 σ = 1249.488
Moon angle =172.07˚
Moon phase =68.91%
Azimuth =117.18˚
Elevation =33.26˚
Hour Angle =-03:12:29.86˚
Wind speed =7.08 km/hr = 4.4 miles/hr
Wind Direction =157.0˚ E of N
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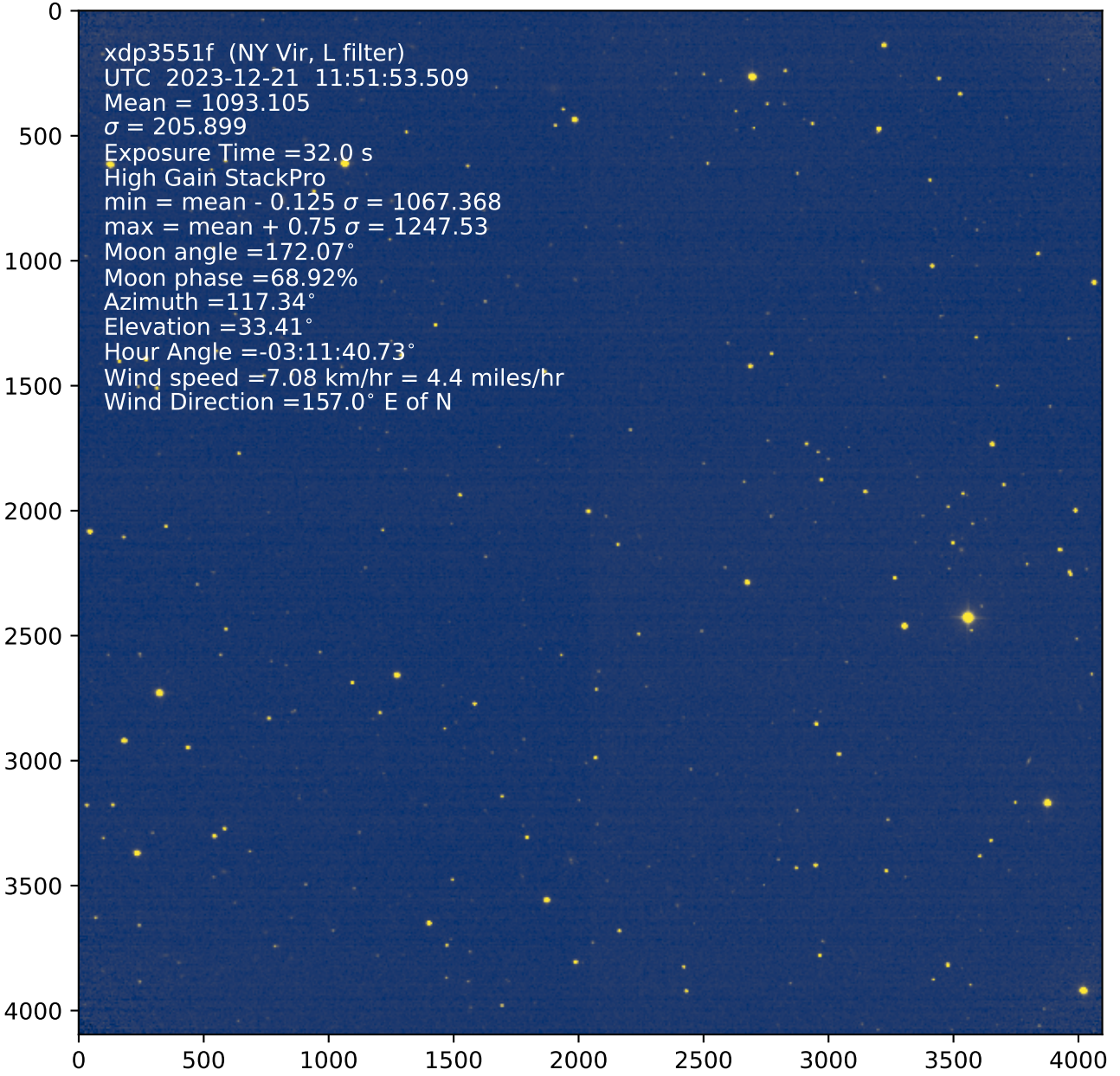
xdp3551f (NY Vir, L filter)
UTC 2023-12-21 11:51:53.509
Mean = 1093.105
σ = 205.899
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1067.368
max = mean + 0.75 σ = 1247.53
Moon angle =172.07°
Moon phase =68.92%
Azimuth =117.34°
Elevation =33.41°
Hour Angle =-03:11:40.73°
Wind speed =7.08 km/hr = 4.4 miles/hr
Wind Direction =157.0° E of N
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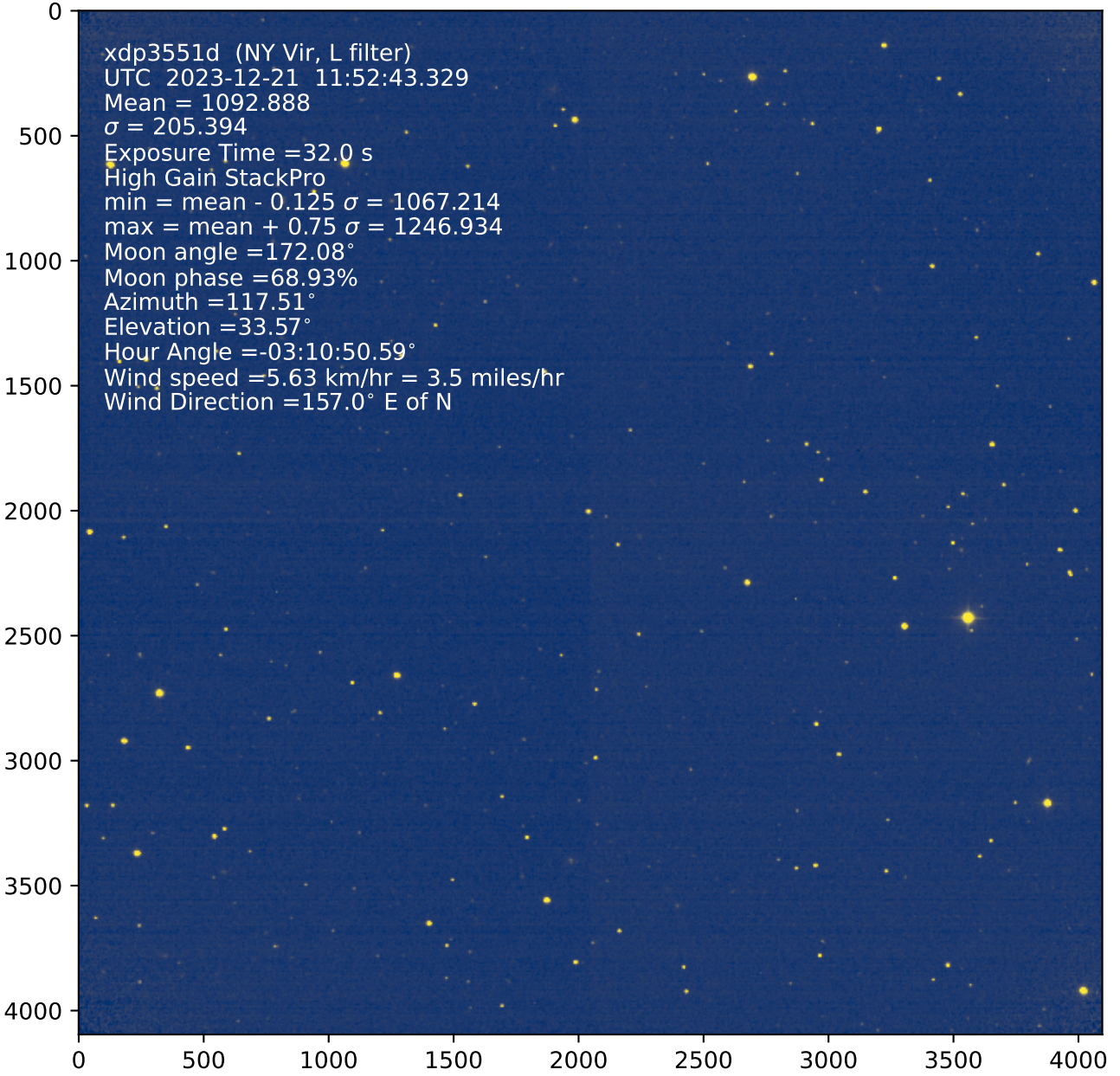
xdp3551d (NY Vir, L filter)
UTC 2023-12-21 11:52:43.329
Mean = 1092.888
σ = 205.394
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1067.214
max = mean + 0.75 σ = 1246.934
Moon angle =172.08°
Moon phase =68.93%
Azimuth =117.51°
Elevation =33.57°
Hour Angle =-03:10:50.59°
Wind speed =5.63 km/hr = 3.5 miles/hr
Wind Direction =157.0° E of N
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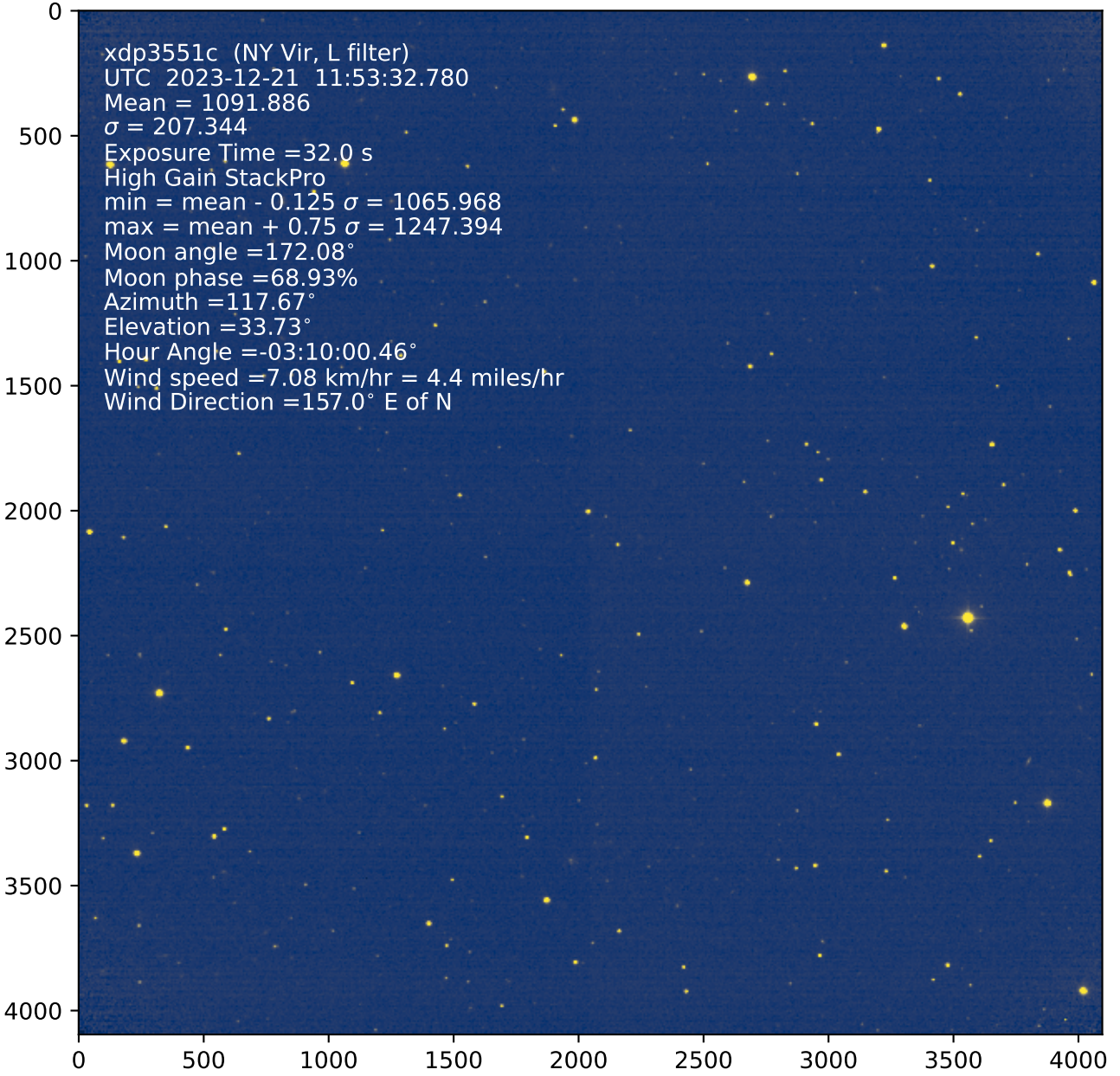
xdp3551c (NY Vir, L filter)
UTC 2023-12-21 11:53:32.780
Mean = 1091.886
σ = 207.344
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1065.968
max = mean + 0.75 σ = 1247.394
Moon angle =172.08˚
Moon phase =68.93%
Azimuth =117.67˚
Elevation =33.73˚
Hour Angle =-03:10:00.46˚
Wind speed =7.08 km/hr = 4.4 miles/hr
Wind Direction =157.0˚ E of N
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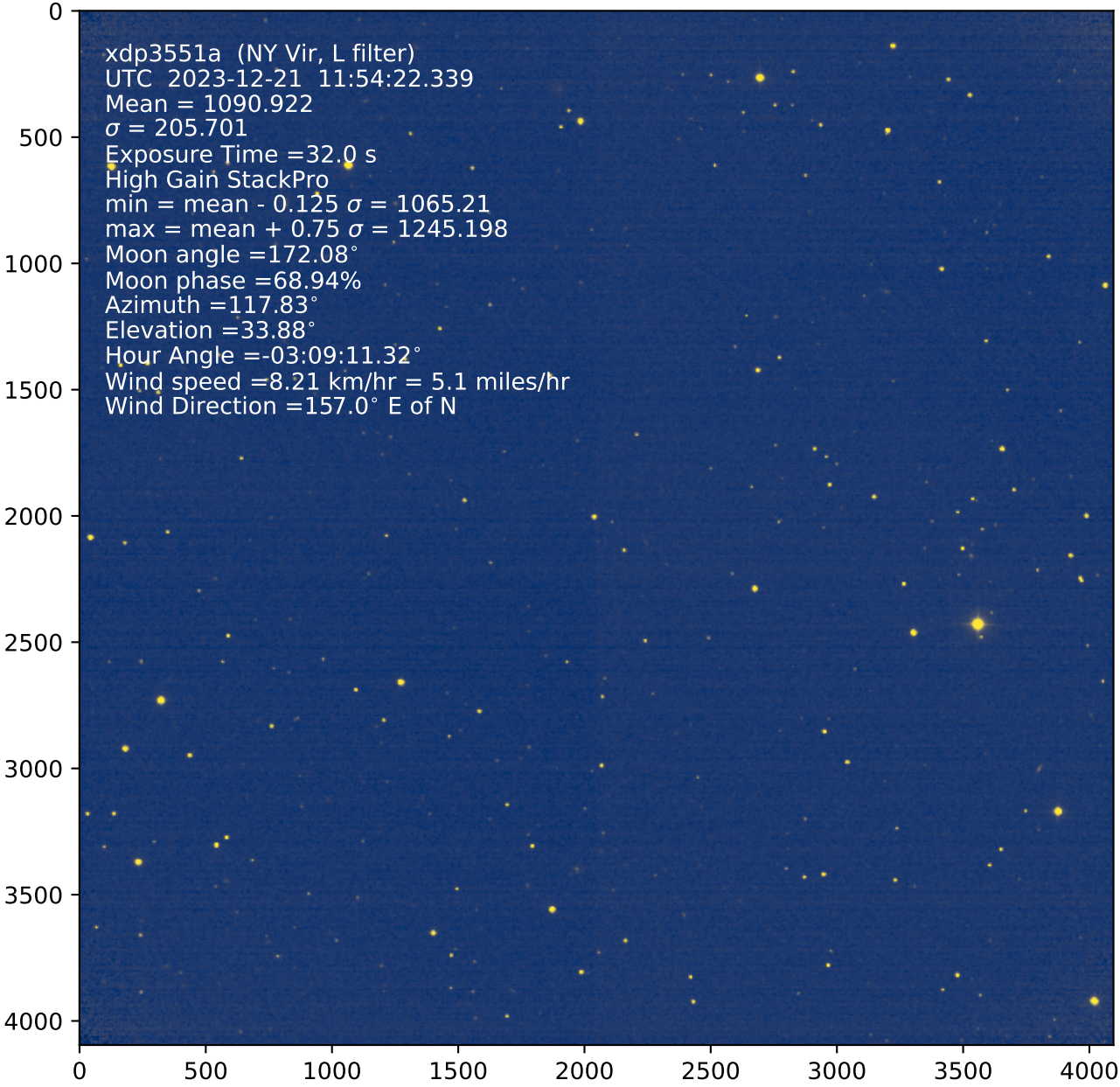
xdp3551a (NY Vir, L filter)
UTC 2023-12-21 11:54:22.339
Mean = 1090.922
σ = 205.701
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1065.21
max = mean + 0.75 σ = 1245.198
Moon angle =172.08°
Moon phase =68.94%
Azimuth =117.83°
Elevation =33.88°
Hour Angle =-03:09:11.32°
Wind speed =8.21 km/hr = 5.1 miles/hr
Wind Direction =157.0° E of N
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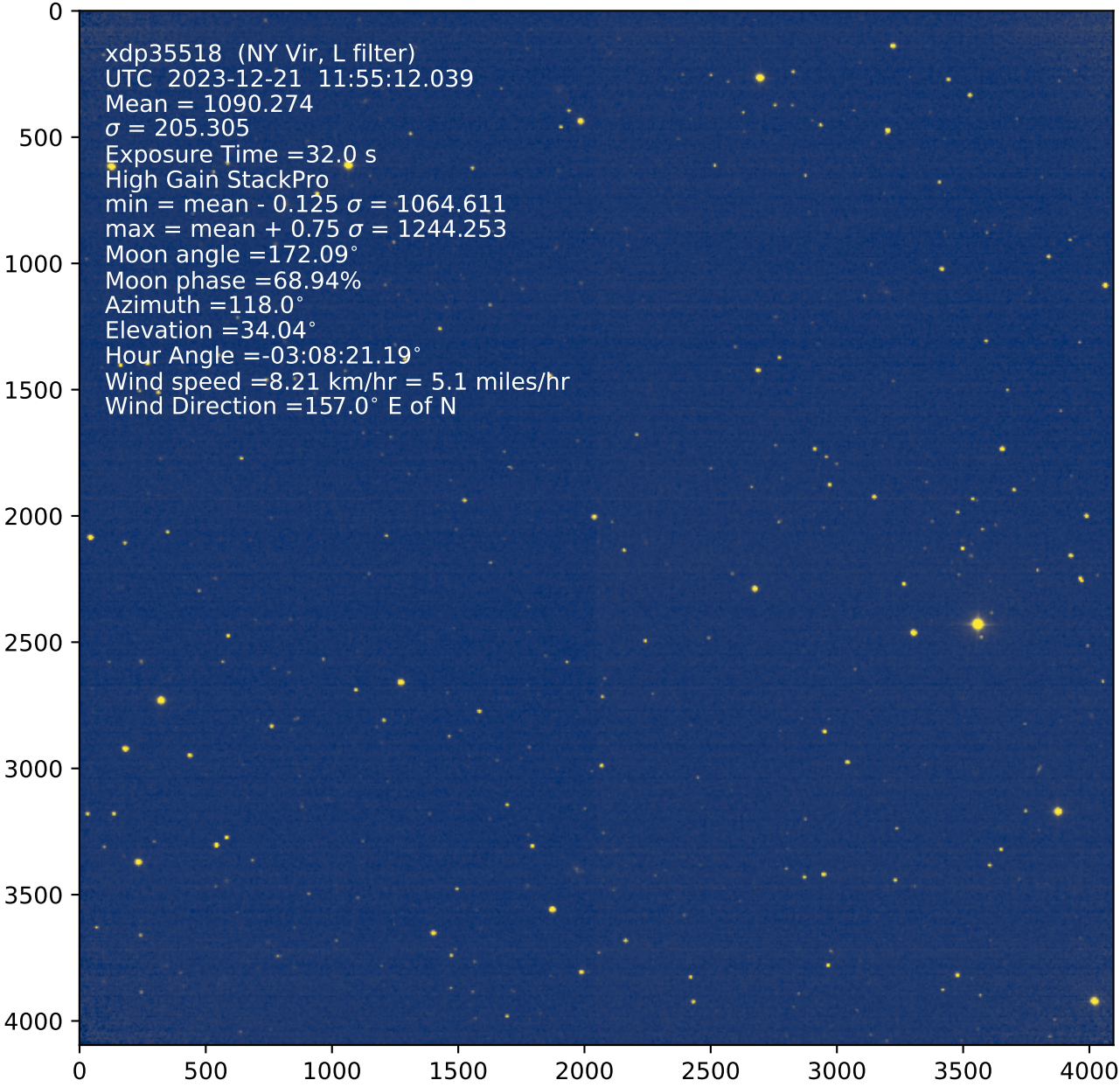
3500
4000


xdp35518 (NY Vir, L filter)
UTC 2023-12-21 11:55:12.039
Mean = 1090.274
σ = 205.305
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1064.611
max = mean + 0.75 σ = 1244.253
Moon angle =172.09°
Moon phase =68.94%
Azimuth =118.0°
Elevation =34.04°
Hour Angle =-03:08:21.19°
Wind speed =8.21 km/hr = 5.1 miles/hr
Wind Direction =157.0° E of N
0
500
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2500
3000
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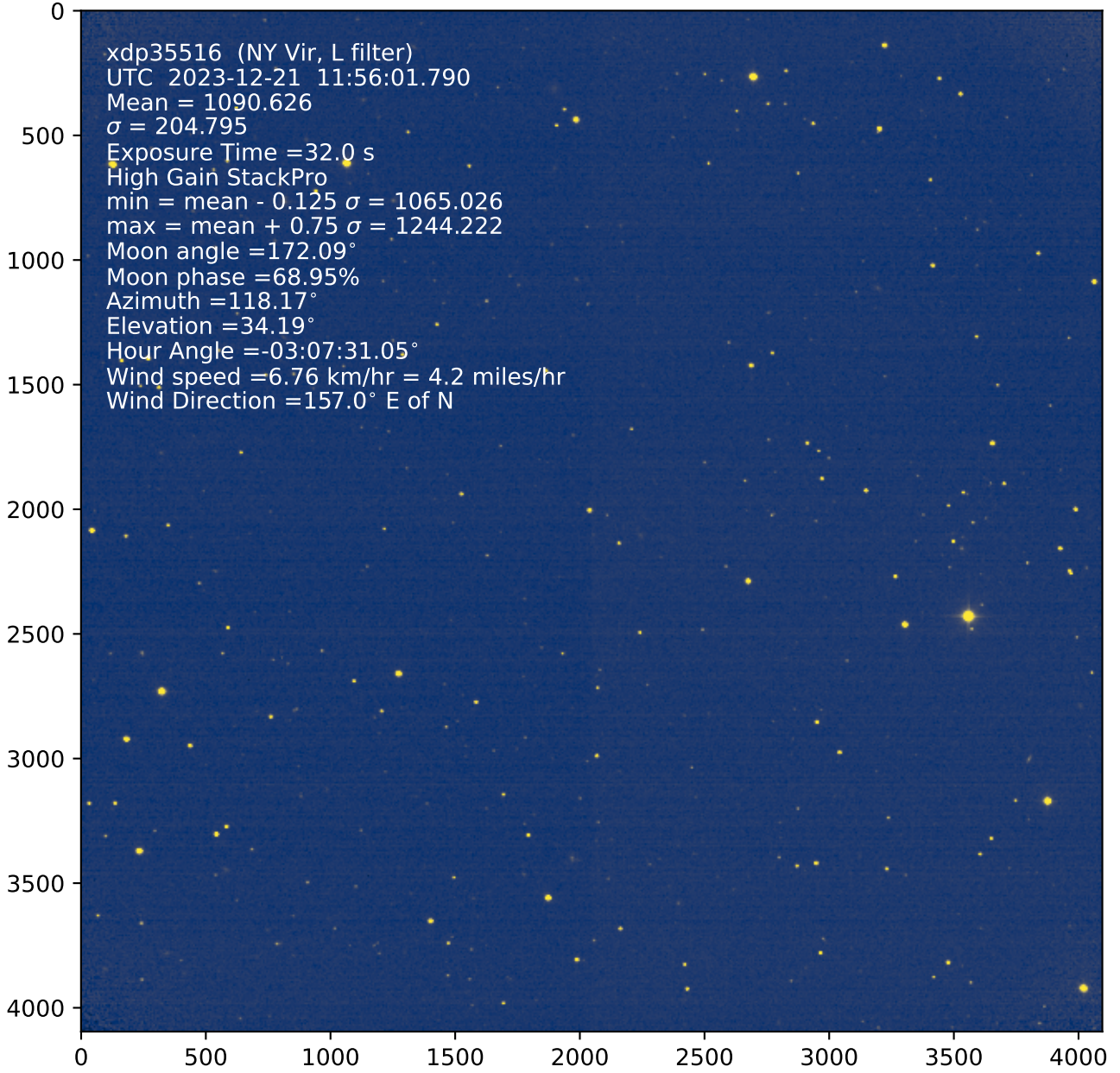
4000


xdp35516 (NY Vir, L filter)
UTC 2023-12-21 11:56:01.790
Mean = 1090.626
σ = 204.795
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1065.026
max = mean + 0.75 σ = 1244.222
Moon angle =172.09°
Moon phase =68.95%
Azimuth =118.17°
Elevation =34.19°
Hour Angle =-03:07:31.05°
Wind speed =6.76 km/hr = 4.2 miles/hr
Wind Direction =157.0° E of N
0
500
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2500
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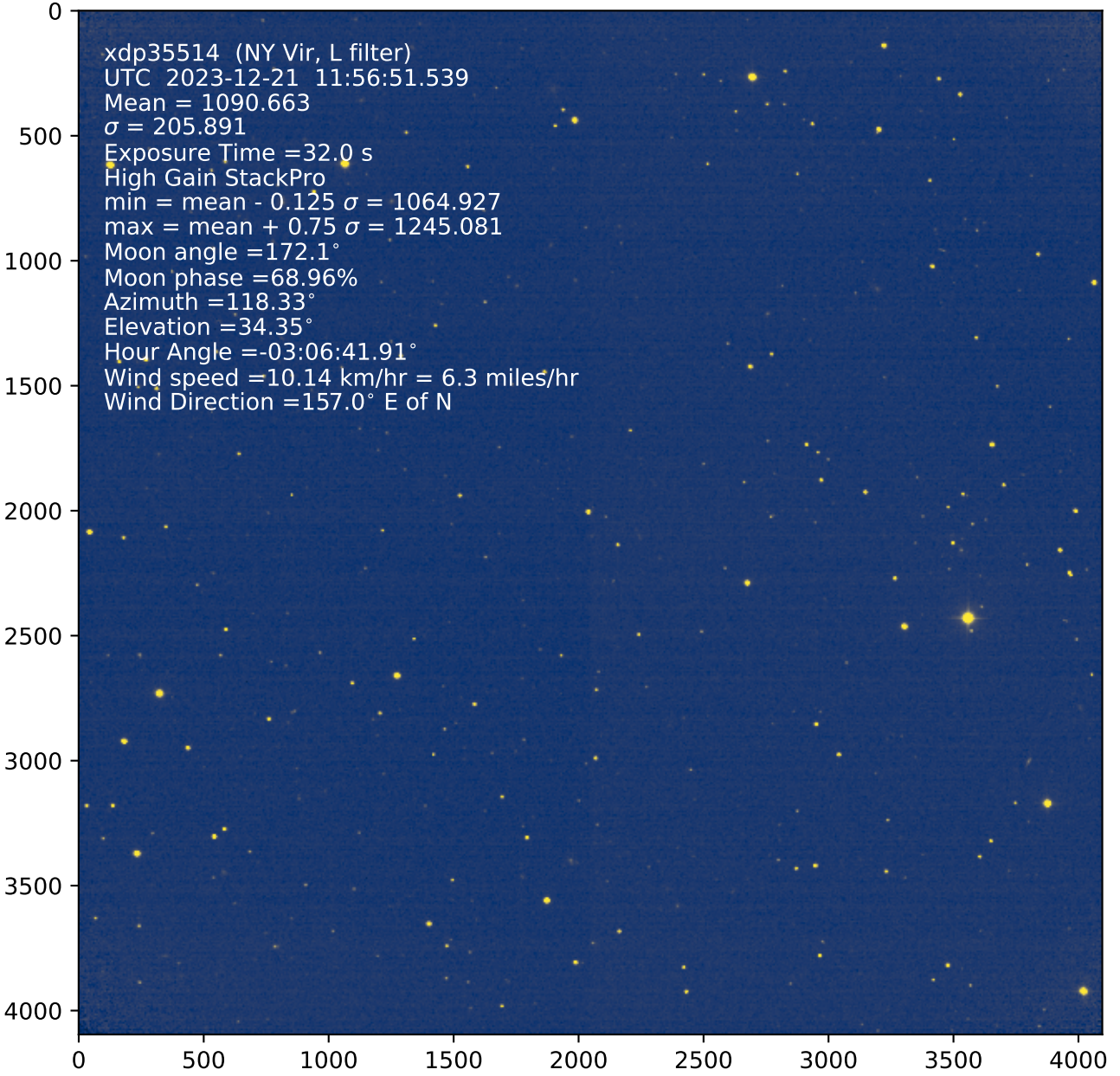
4000


xdp35514 (NY Vir, L filter)
UTC 2023-12-21 11:56:51.539
Mean = 1090.663
σ = 205.891
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1064.927
max = mean + 0.75 σ = 1245.081
Moon angle =172.1˚
Moon phase =68.96%
Azimuth =118.33˚
Elevation =34.35˚
Hour Angle =-03:06:41.91˚
Wind speed =10.14 km/hr = 6.3 miles/hr
Wind Direction =157.0˚ E of N
0
500
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1500
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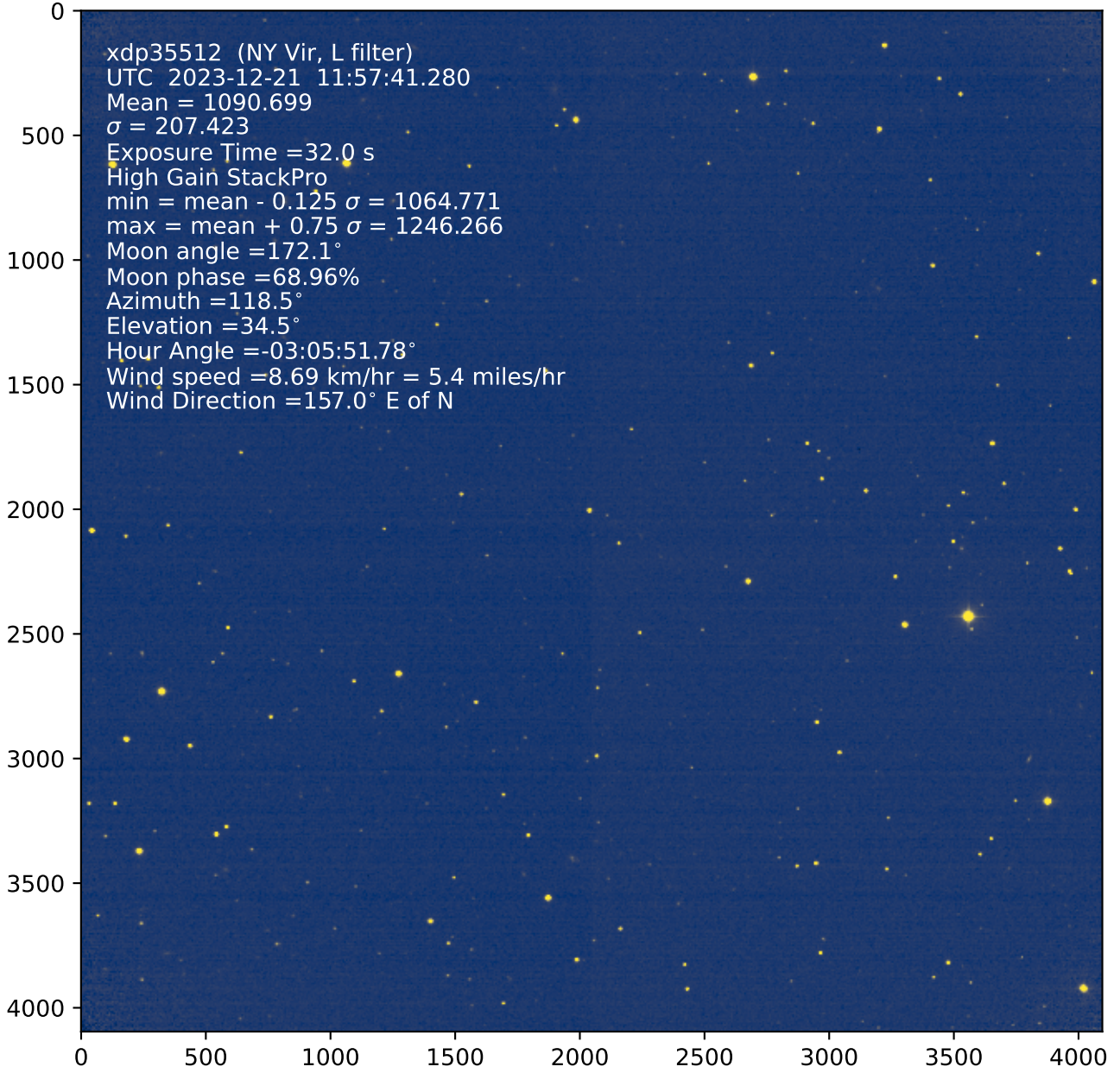
3000
3500
4000


xdp35512 (NY Vir, L filter)
UTC 2023-12-21 11:57:41.280
Mean = 1090.699
σ = 207.423
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1064.771
max = mean + 0.75 σ = 1246.266
Moon angle =172.1°
Moon phase =68.96%
Azimuth =118.5°
Elevation =34.5°
Hour Angle =-03:05:51.78°
Wind speed =8.69 km/hr = 5.4 miles/hr
Wind Direction =157.0° E of N
0
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3500
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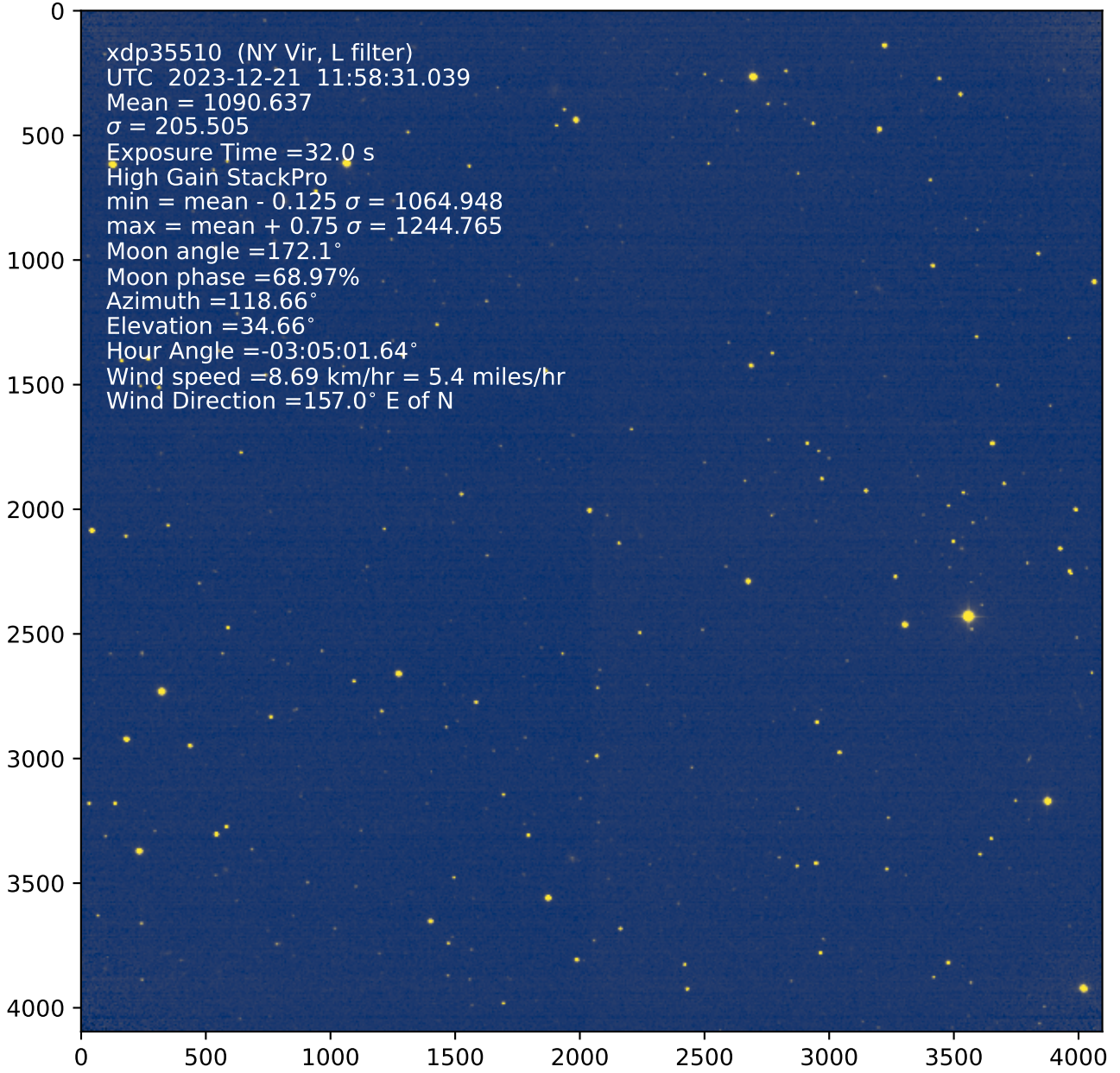
xdp35510 (NY Vir, L filter)
UTC 2023-12-21 11:58:31.039
Mean = 1090.637
σ = 205.505
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1064.948
max = mean + 0.75 σ = 1244.765
Moon angle =172.1°
Moon phase =68.97%
Azimuth =118.66°
Elevation =34.66°
Hour Angle =-03:05:01.64°
Wind speed =8.69 km/hr = 5.4 miles/hr
Wind Direction =157.0° E of N
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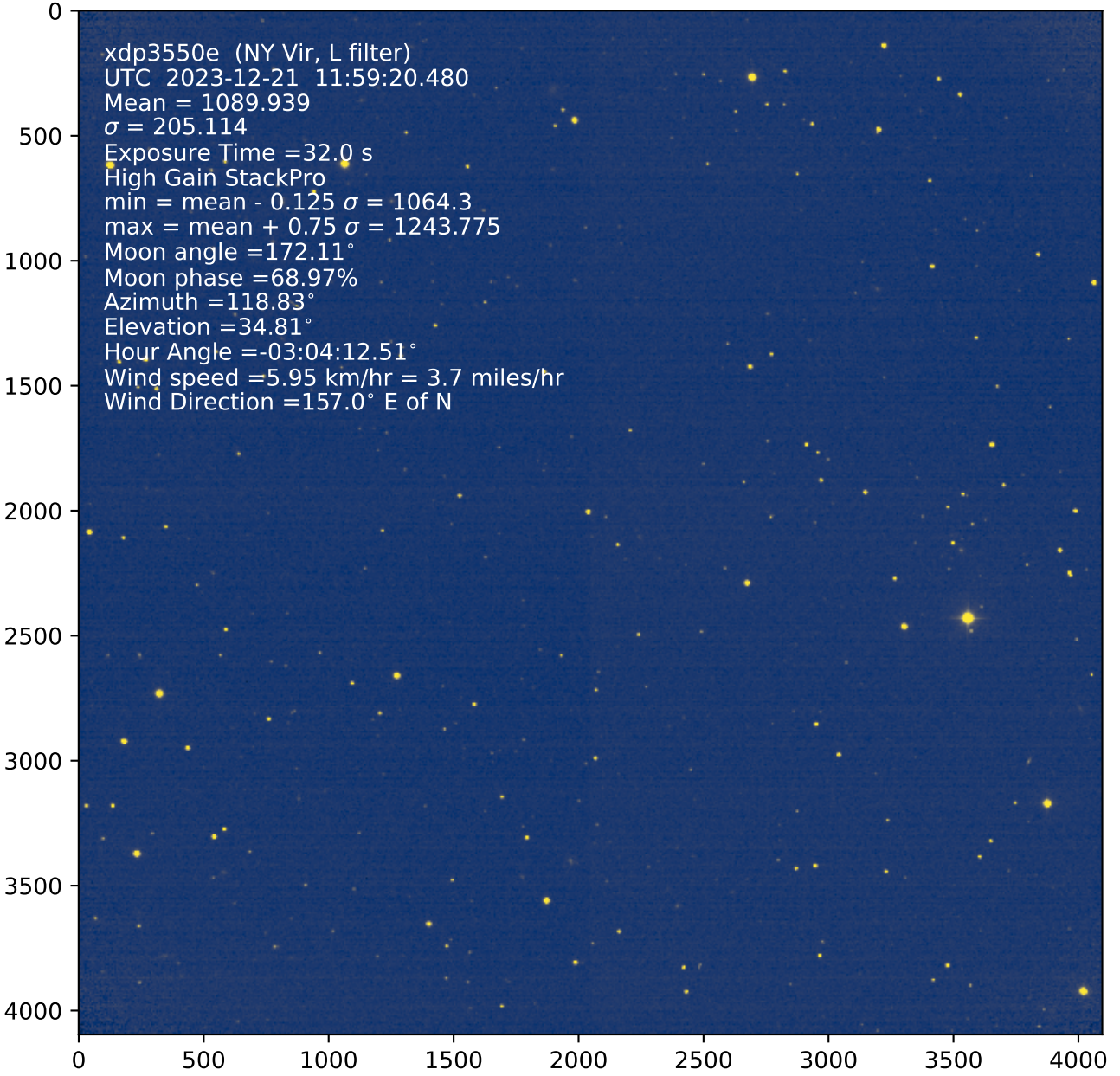
xdp3550e (NY Vir, L filter)
UTC 2023-12-21 11:59:20.480
Mean = 1089.939
σ = 205.114
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1064.3
max = mean + 0.75 σ = 1243.775
Moon angle =172.11°
Moon phase =68.97%
Azimuth =118.83°
Elevation =34.81°
Hour Angle =-03:04:12.51°
Wind speed =5.95 km/hr = 3.7 miles/hr
Wind Direction =157.0° E of N
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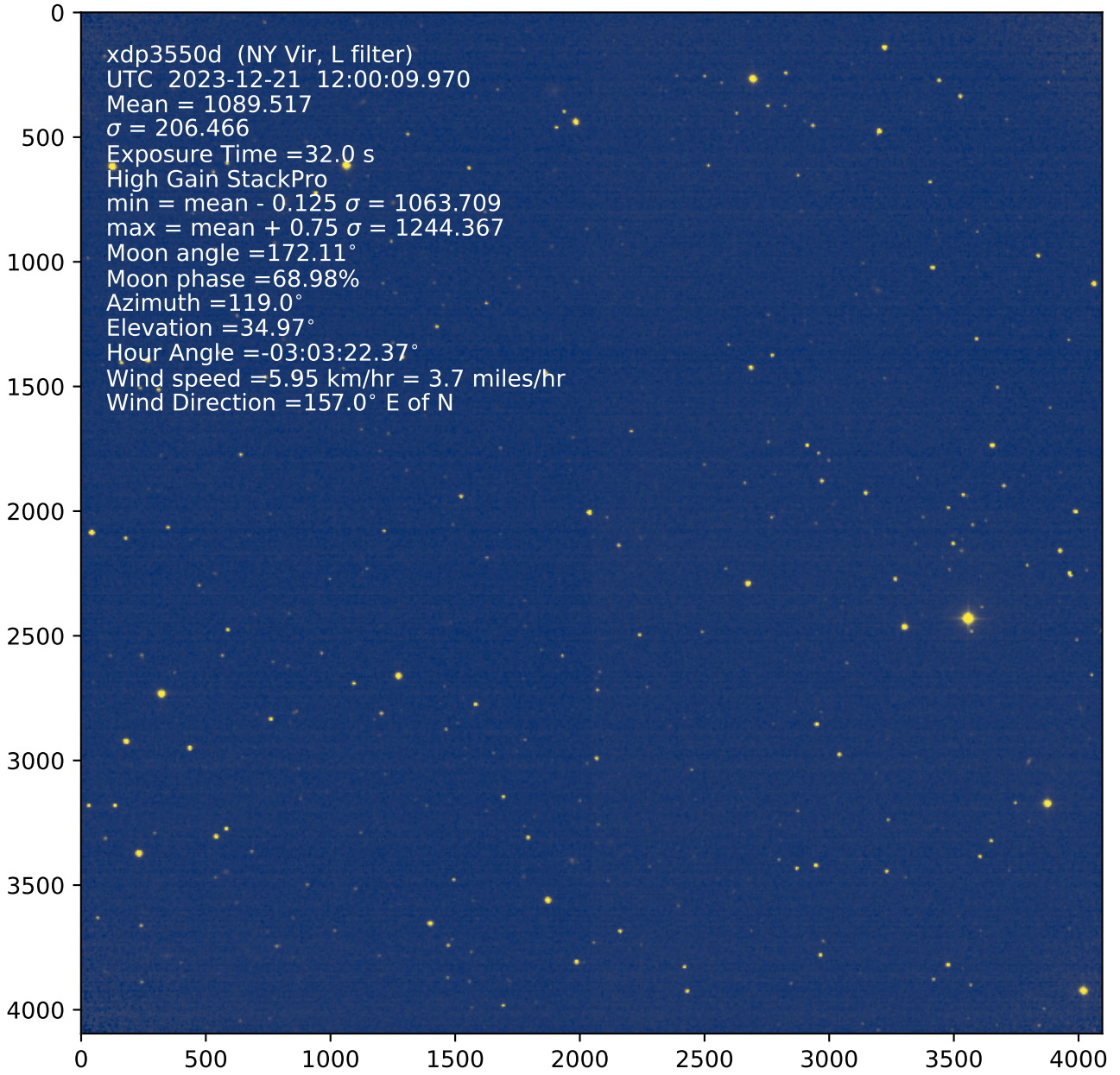
xdp3550d (NY Vir, L filter)
UTC 2023-12-21 12:00:09.970
Mean = 1089.517
σ = 206.466
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1063.709
max = mean + 0.75 σ = 1244.367
Moon angle =172.11°
Moon phase =68.98%
Azimuth =119.0°
Elevation =34.97°
Hour Angle =-03:03:22.37°
Wind speed =5.95 km/hr = 3.7 miles/hr
Wind Direction =157.0° E of N
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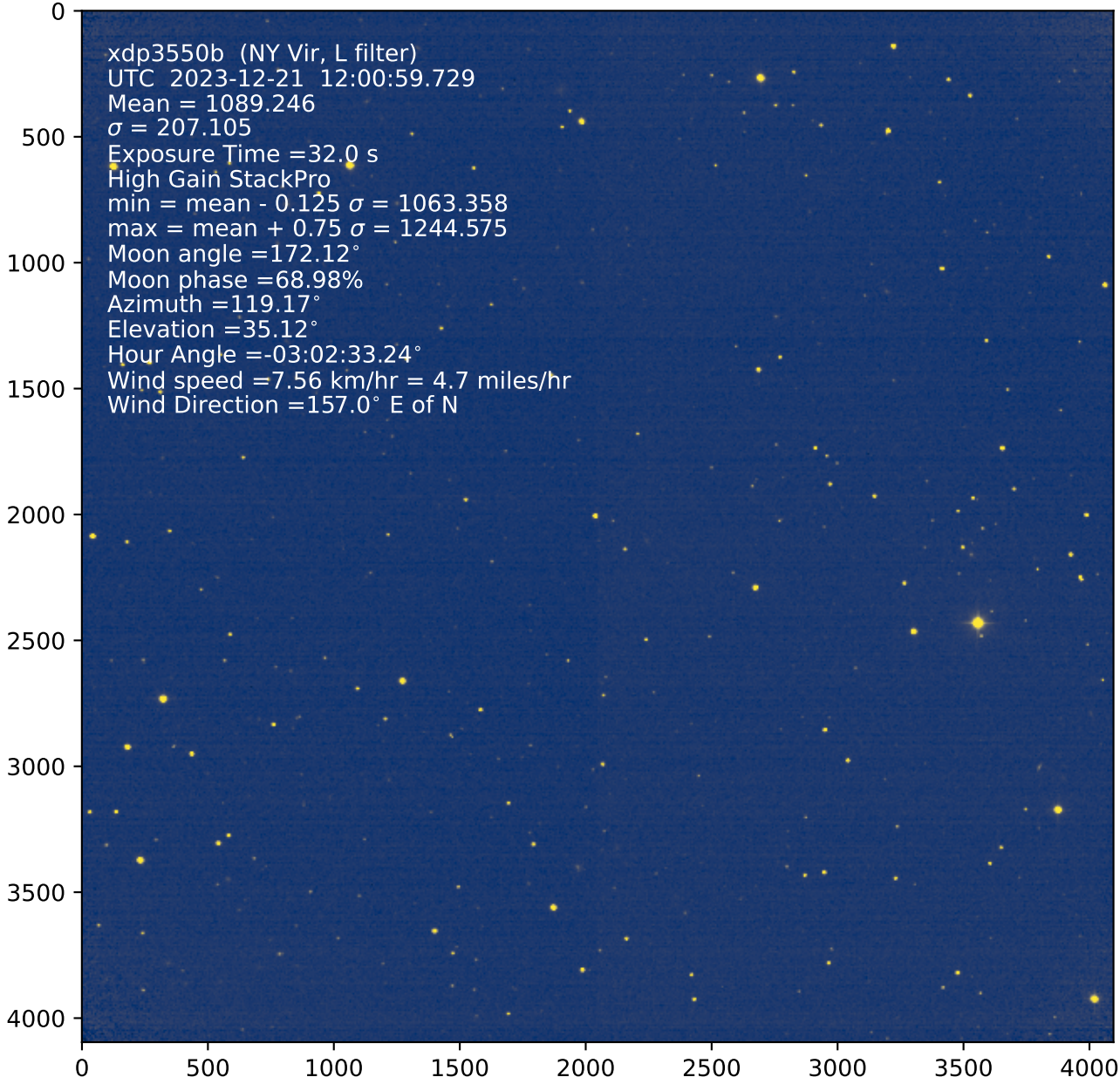
xdp3550b (NY Vir, L filter)
UTC 2023-12-21 12:00:59.729
Mean = 1089.246
σ = 207.105
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1063.358
max = mean + 0.75 σ = 1244.575
Moon angle =172.12°
Moon phase =68.98%
Azimuth =119.17°
Elevation =35.12°
Hour Angle =-03:02:33.24°
Wind speed =7.56 km/hr = 4.7 miles/hr
Wind Direction =157.0° E of N
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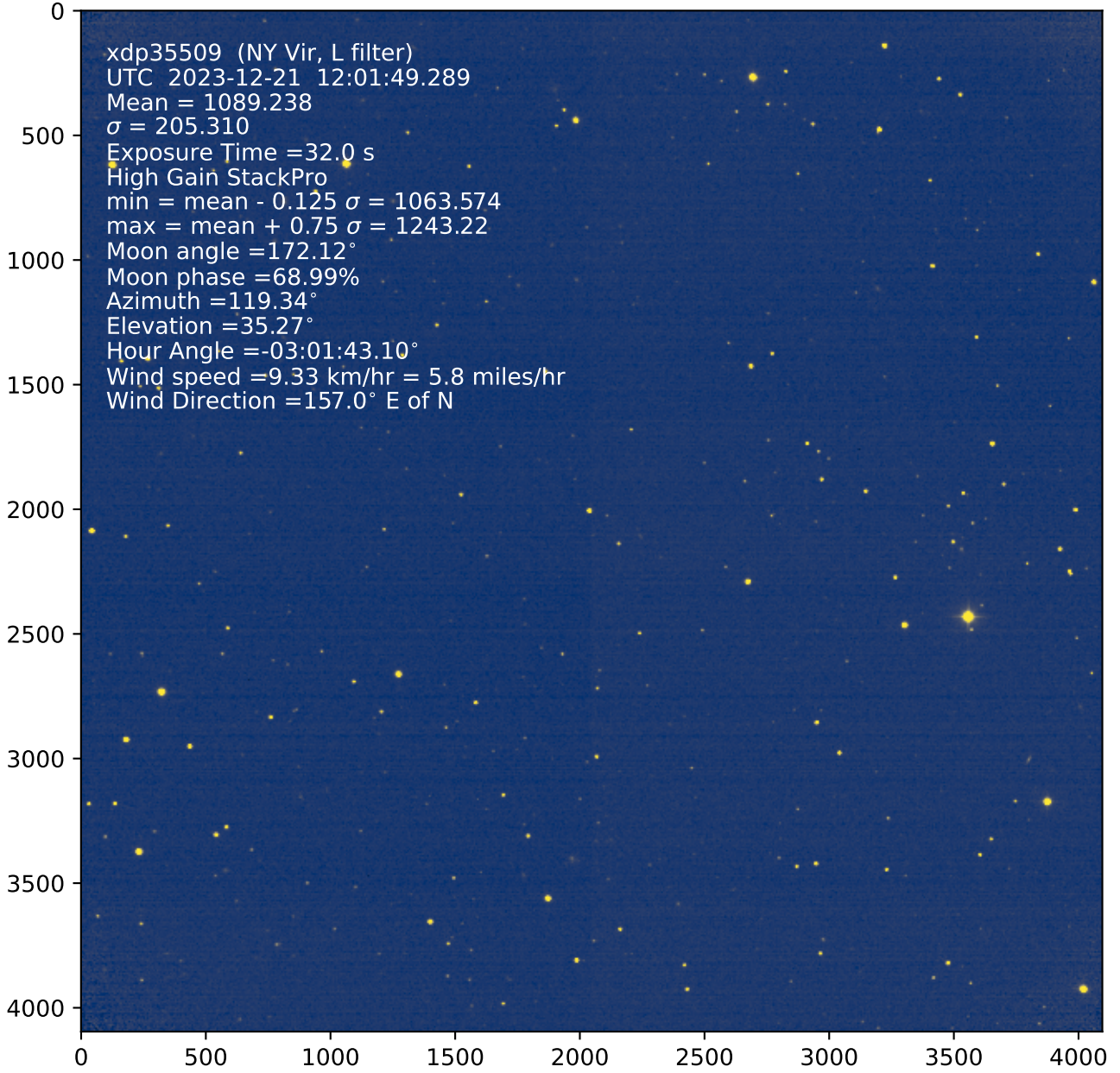
xdp35509 (NY Vir, L filter)
UTC 2023-12-21 12:01:49.289
Mean = 1089.238
σ = 205.310
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1063.574
max = mean + 0.75 σ = 1243.22
Moon angle =172.12°
Moon phase =68.99%
Azimuth =119.34°
Elevation =35.27°
Hour Angle =-03:01:43.10°
Wind speed =9.33 km/hr = 5.8 miles/hr
Wind Direction =157.0° E of N
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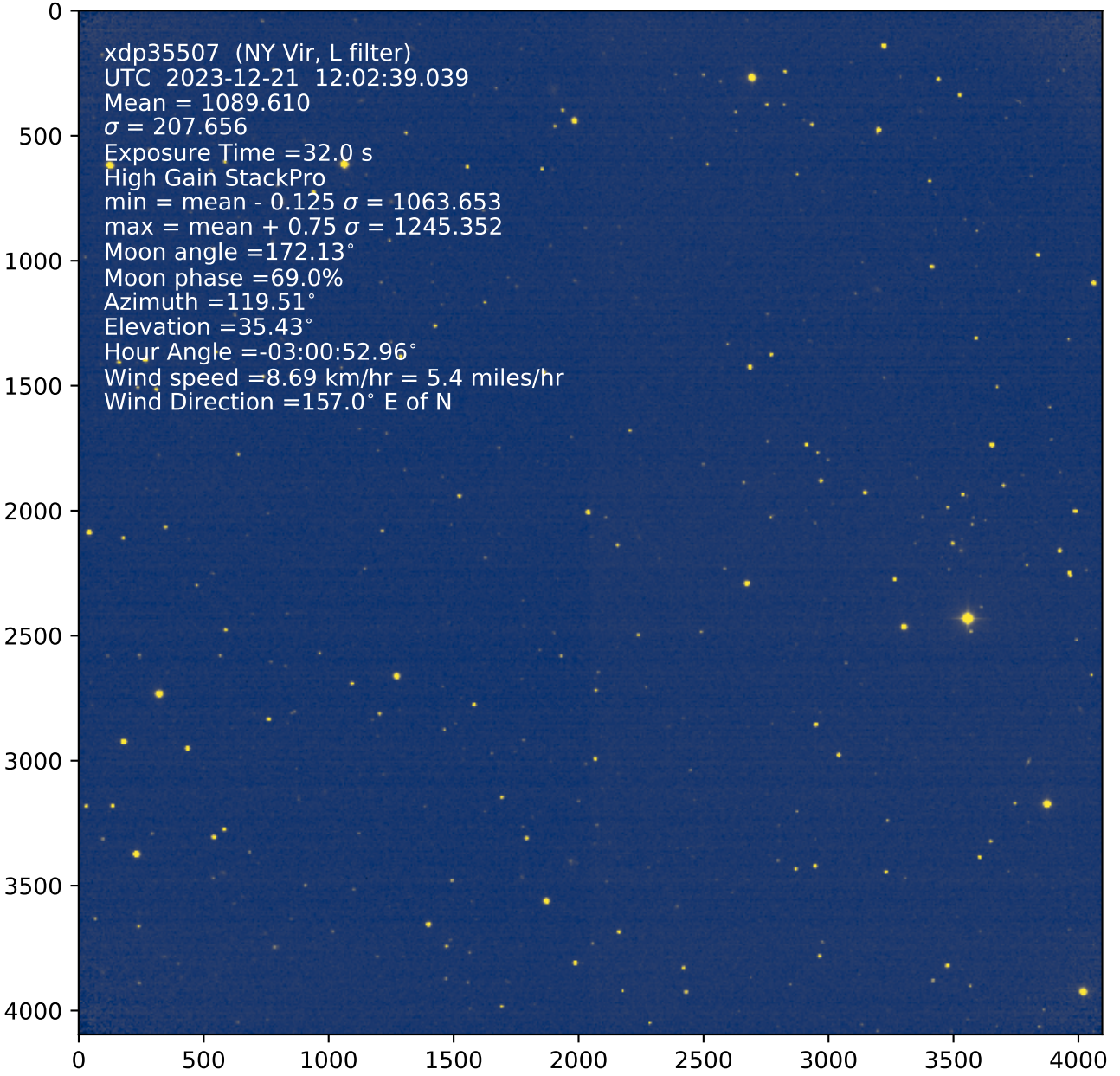
xdp35507 (NY Vir, L filter)
UTC 2023-12-21 12:02:39.039
Mean = 1089.610
σ = 207.656
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1063.653
max = mean + 0.75 σ = 1245.352
Moon angle =172.13°
Moon phase =69.0%
Azimuth =119.51°
Elevation =35.43°
Hour Angle =-03:00:52.96°
Wind speed =8.69 km/hr = 5.4 miles/hr
Wind Direction =157.0° E of N
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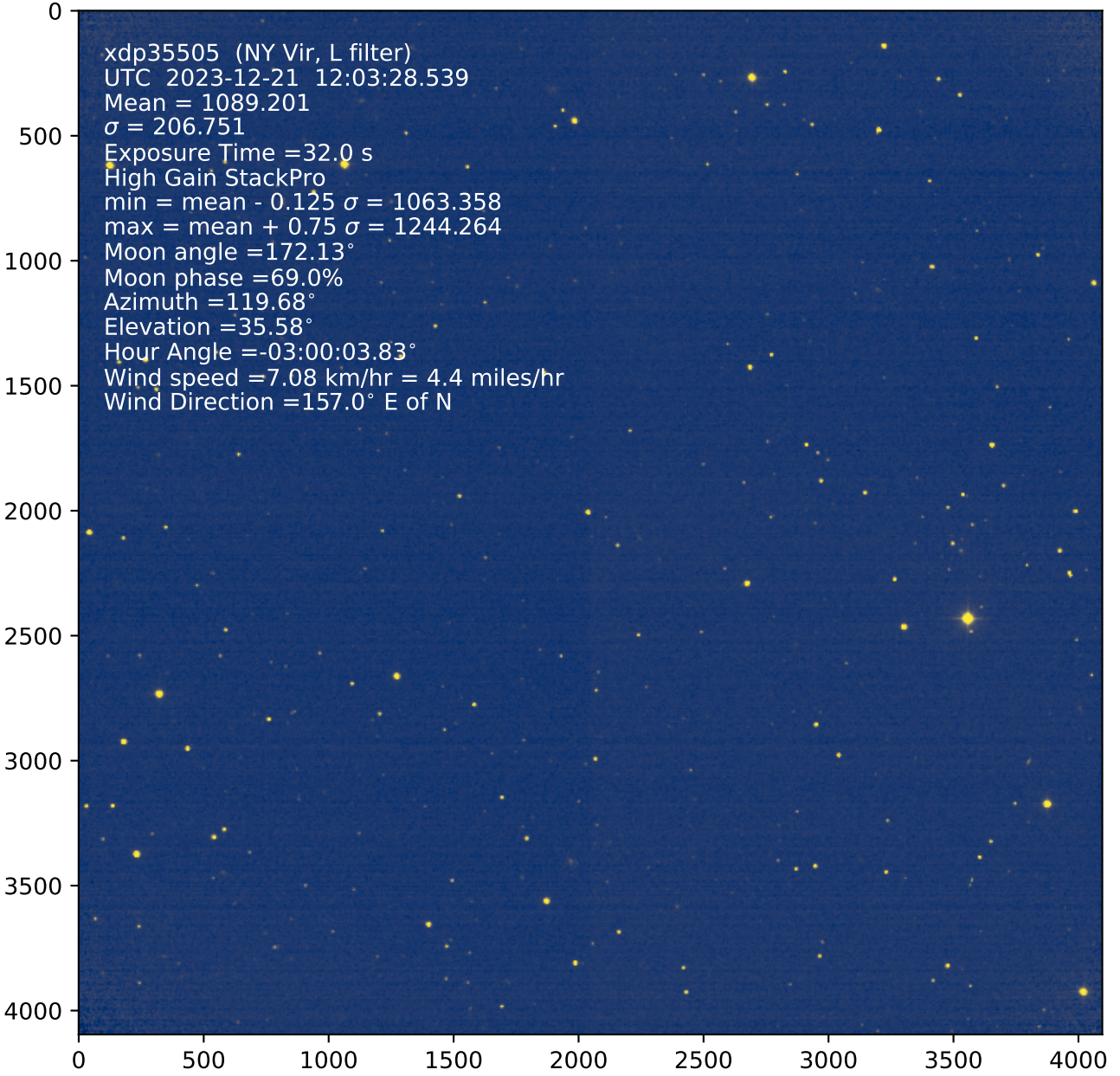
xdp35505 (NY Vir, L filter)
UTC 2023-12-21 12:03:28.539
Mean = 1089.201
σ = 206.751
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1063.358
max = mean + 0.75 σ = 1244.264
Moon angle =172.13°
Moon phase =69.0%
Azimuth =119.68°
Elevation =35.58°
Hour Angle =-03:00:03.83°
Wind speed =7.08 km/hr = 4.4 miles/hr
Wind Direction =157.0° E of N
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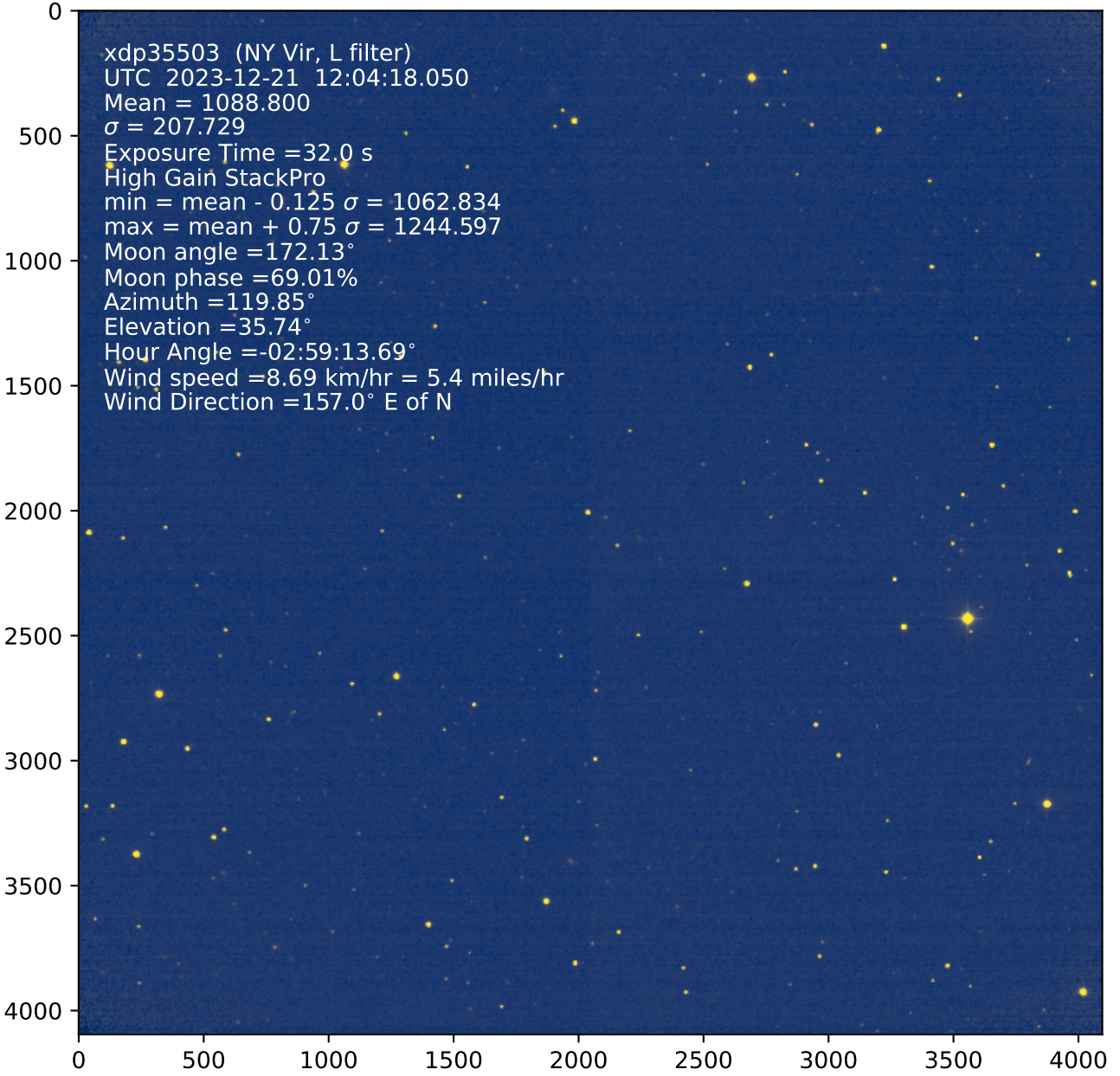
xdp35503 (NY Vir, L filter)
UTC 2023-12-21 12:04:18.050
Mean = 1088.800
σ = 207.729
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1062.834
max = mean + 0.75 σ = 1244.597
Moon angle =172.13°
Moon phase =69.01%
Azimuth =119.85°
Elevation =35.74°
Hour Angle =-02:59:13.69°
Wind speed =8.69 km/hr = 5.4 miles/hr
Wind Direction =157.0° E of N
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3500
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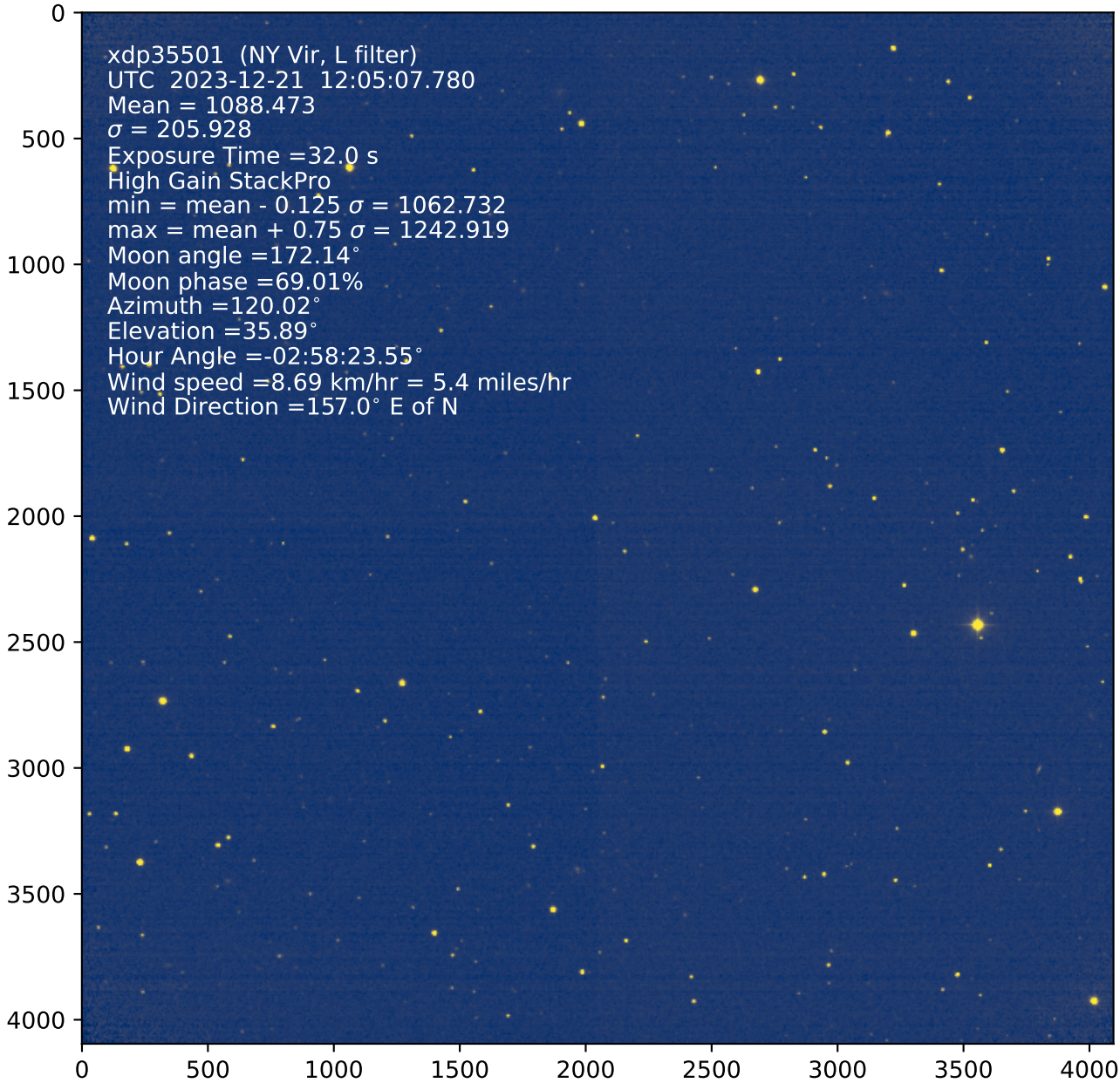
xdp35501 (NY Vir, L filter)
UTC 2023-12-21 12:05:07.780
Mean = 1088.473
σ = 205.928
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1062.732
max = mean + 0.75 σ = 1242.919
Moon angle =172.14°
Moon phase =69.01%
Azimuth =120.02°
Elevation =35.89°
Hour Angle =-02:58:23.55°
Wind speed =8.69 km/hr = 5.4 miles/hr
Wind Direction =157.0° E of N
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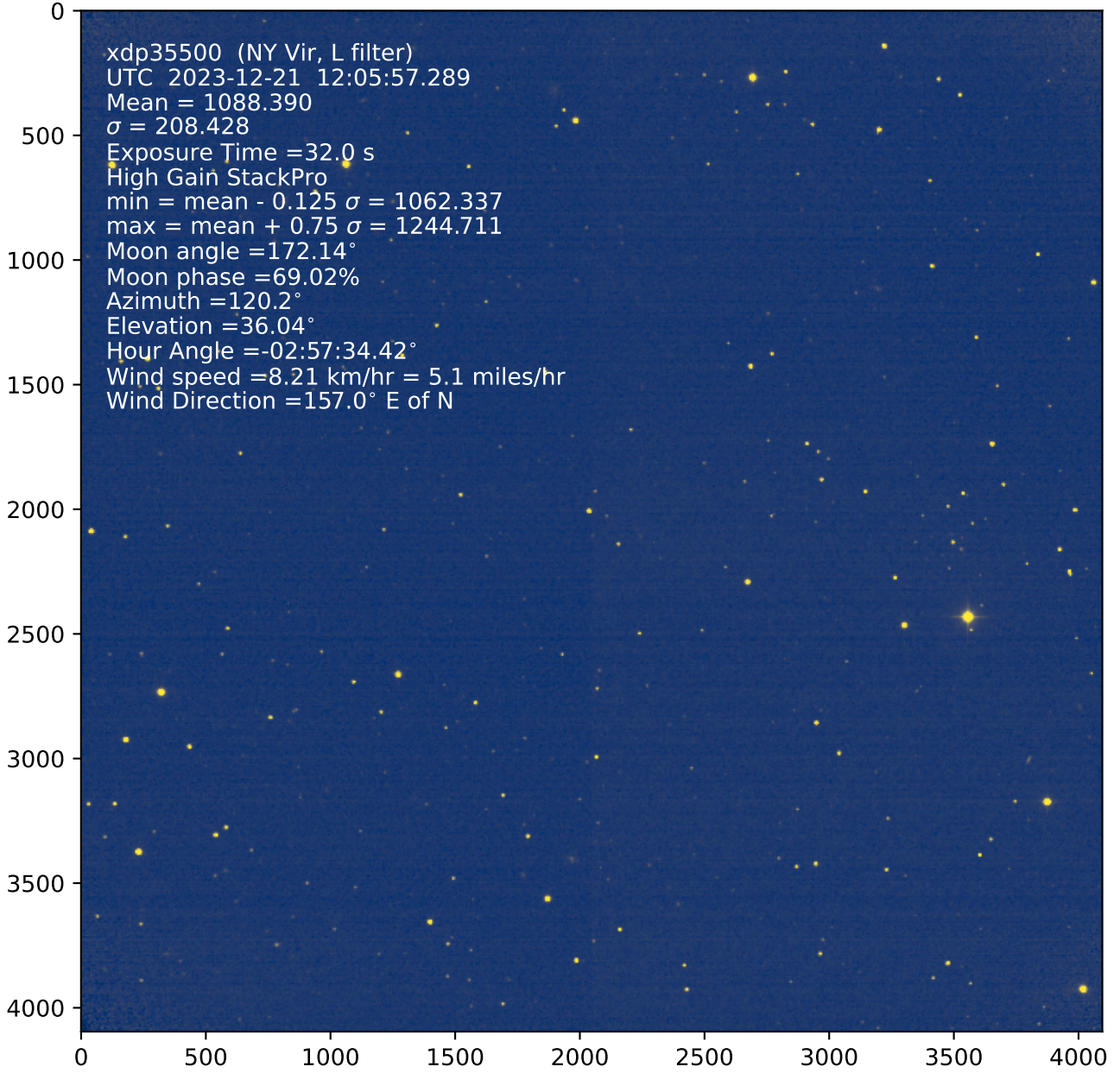
3500
4000


xdp35500 (NY Vir, L filter)
UTC 2023-12-21 12:05:57.289
Mean = 1088.390
σ = 208.428
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1062.337
max = mean + 0.75 σ = 1244.711
Moon angle =172.14°
Moon phase =69.02%
Azimuth =120.2°
Elevation =36.04°
Hour Angle =-02:57:34.42°
Wind speed =8.21 km/hr = 5.1 miles/hr
Wind Direction =157.0° E of N
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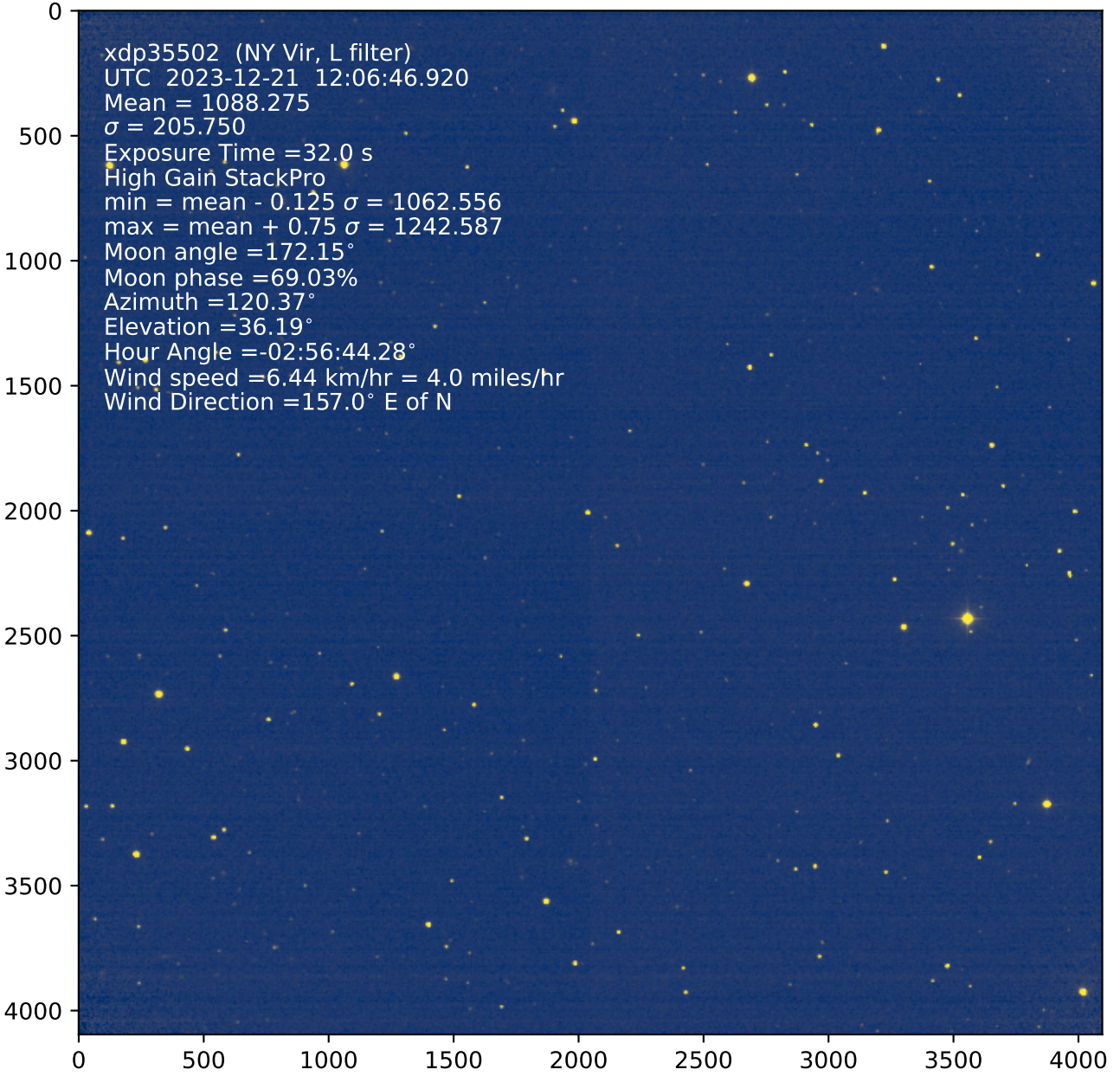
xdp35502 (NY Vir, L filter)
UTC 2023-12-21 12:06:46.920
Mean = 1088.275
σ = 205.750
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1062.556
max = mean + 0.75 σ = 1242.587
Moon angle =172.15°
Moon phase =69.03%
Azimuth =120.37°
Elevation =36.19°
Hour Angle =-02:56:44.28°
Wind speed =6.44 km/hr = 4.0 miles/hr
Wind Direction =157.0° E of N
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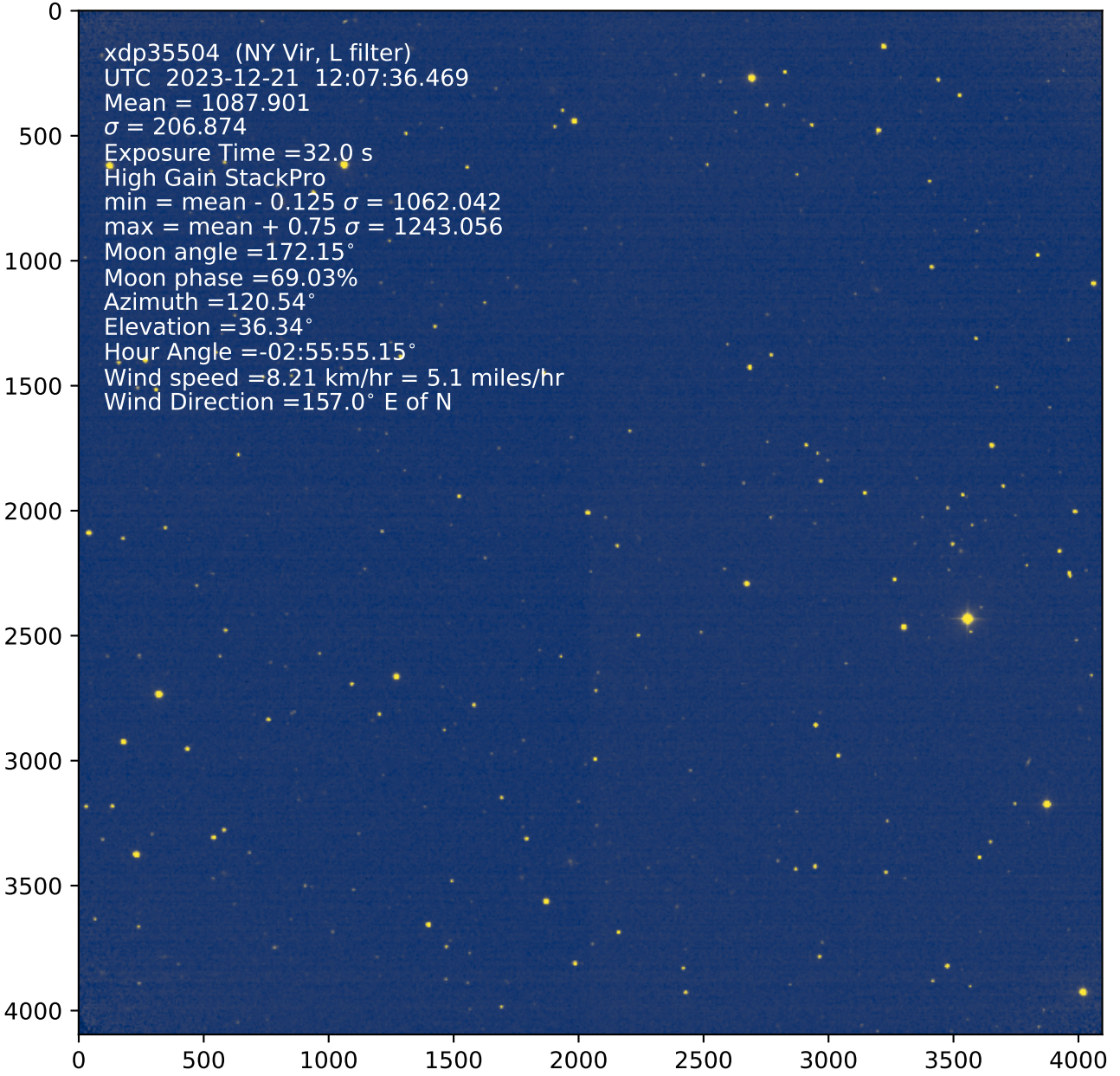
xdp35504 (NY Vir, L filter)
UTC 2023-12-21 12:07:36.469
Mean = 1087.901
σ = 206.874
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1062.042
max = mean + 0.75 σ = 1243.056
Moon angle =172.15°
Moon phase =69.03%
Azimuth =120.54°
Elevation =36.34°
Hour Angle =-02:55:55.15°
Wind speed =8.21 km/hr = 5.1 miles/hr
Wind Direction =157.0° E of N
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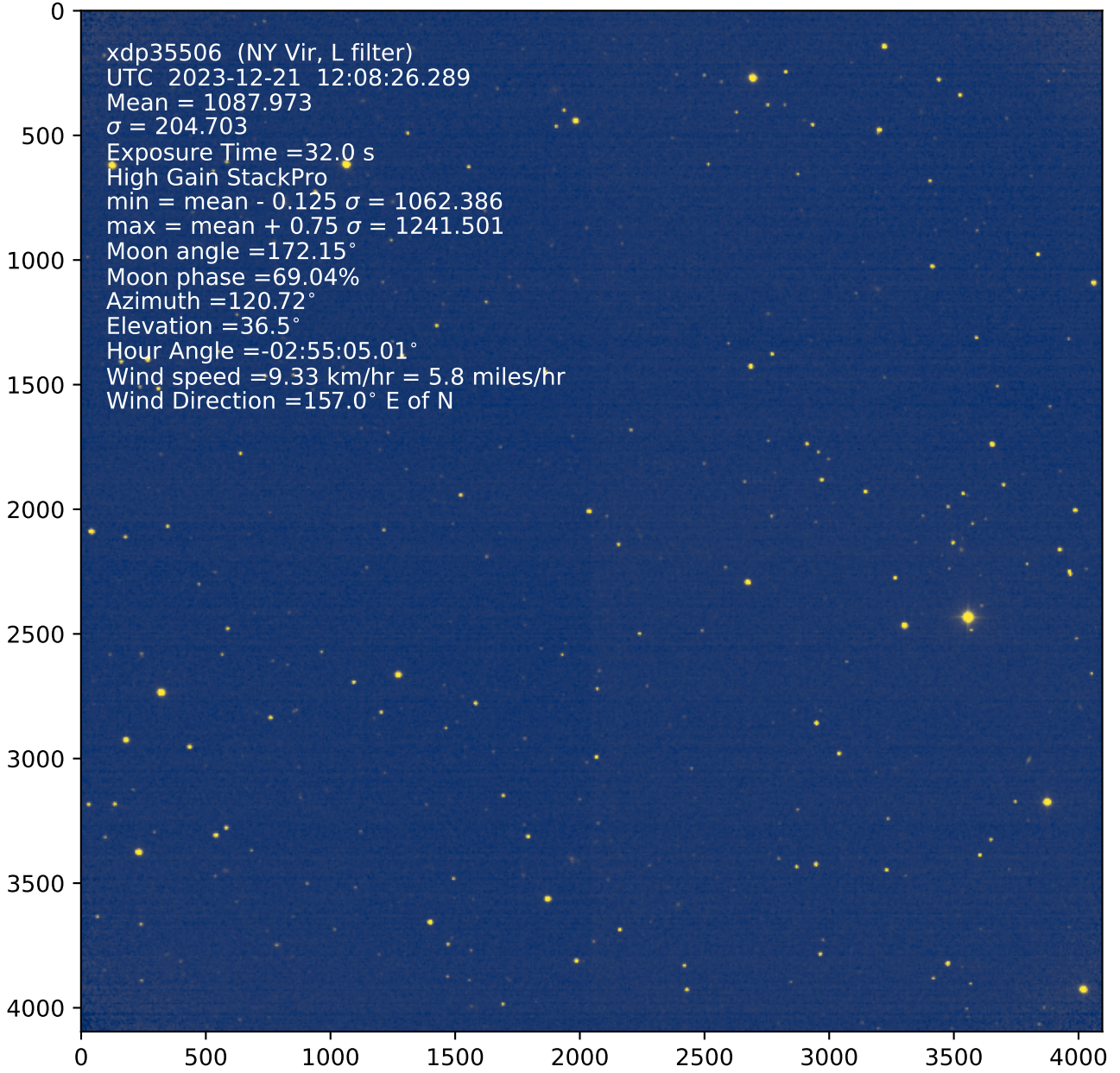
xdp35506 (NY Vir, L filter)
UTC 2023-12-21 12:08:26.289
Mean = 1087.973
σ = 204.703
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1062.386
max = mean + 0.75 σ = 1241.501
Moon angle =172.15°
Moon phase =69.04%
Azimuth =120.72°
Elevation =36.5°
Hour Angle =-02:55:05.01°
Wind speed =9.33 km/hr = 5.8 miles/hr
Wind Direction =157.0° E of N
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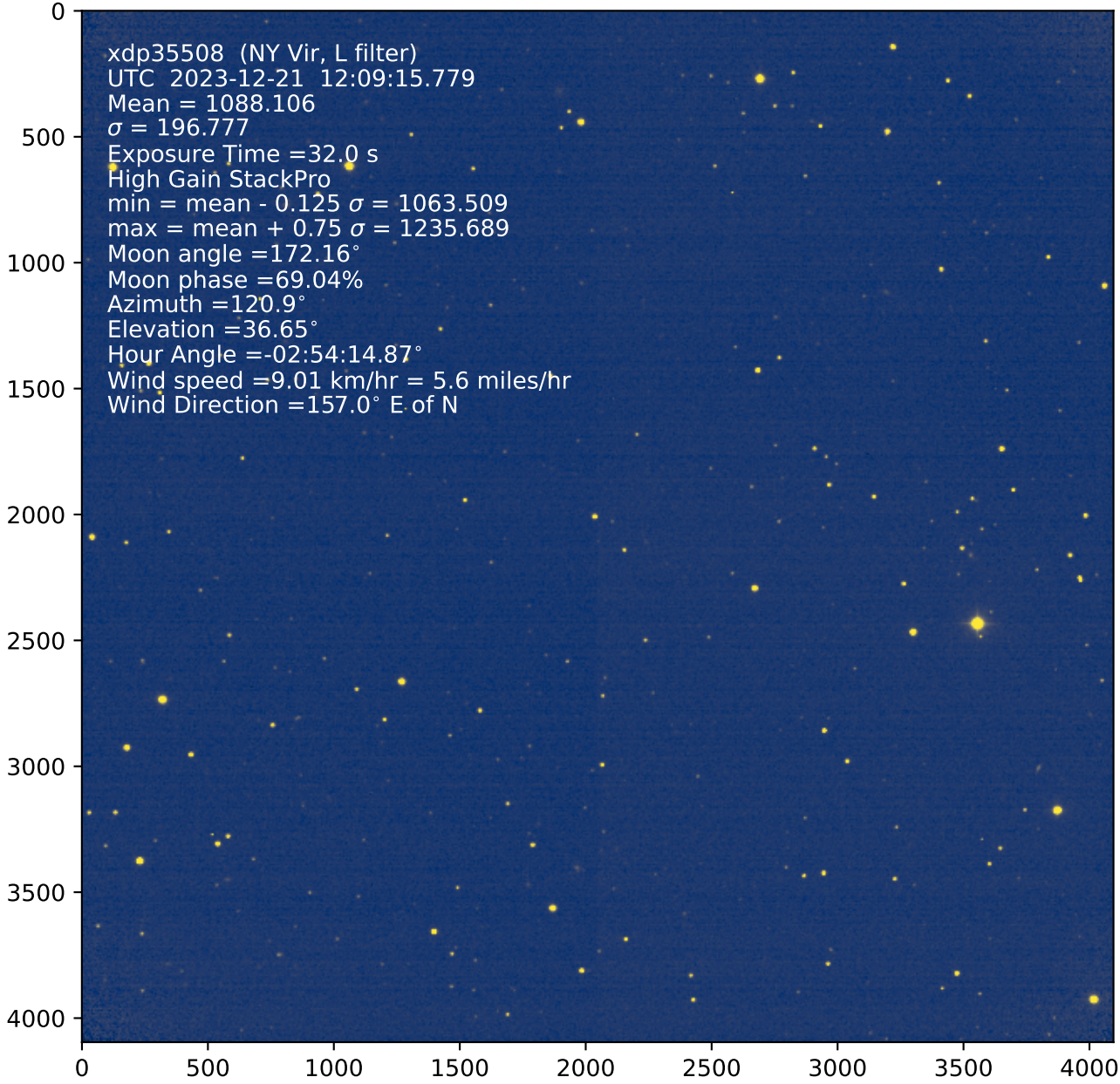
xdp35508 (NY Vir, L filter)
UTC 2023-12-21 12:09:15.779
Mean = 1088.106
σ = 196.777
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1063.509
max = mean + 0.75 σ = 1235.689
Moon angle =172.16°
Moon phase =69.04%
Azimuth =120.9°
Elevation =36.65°
Hour Angle =-02:54:14.87°
Wind speed =9.01 km/hr = 5.6 miles/hr
Wind Direction =157.0° E of N
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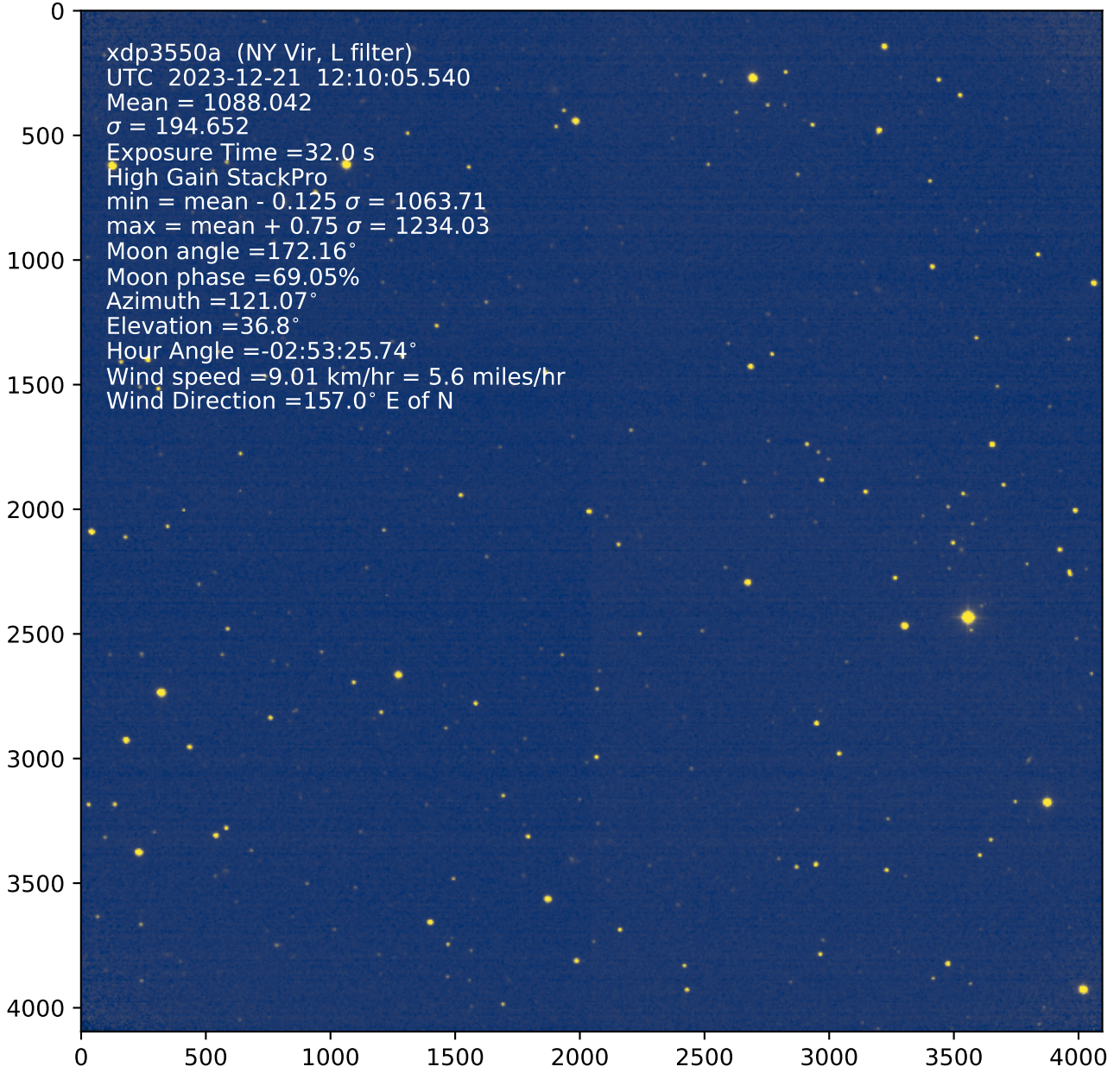
4000


xdp3550a (NY Vir, L filter)
UTC 2023-12-21 12:10:05.540
Mean = 1088.042
σ = 194.652
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1063.71
max = mean + 0.75 σ = 1234.03
Moon angle =172.16°
Moon phase =69.05%
Azimuth =121.07°
Elevation =36.8°
Hour Angle =-02:53:25.74°
Wind speed =9.01 km/hr = 5.6 miles/hr
Wind Direction =157.0° E of N
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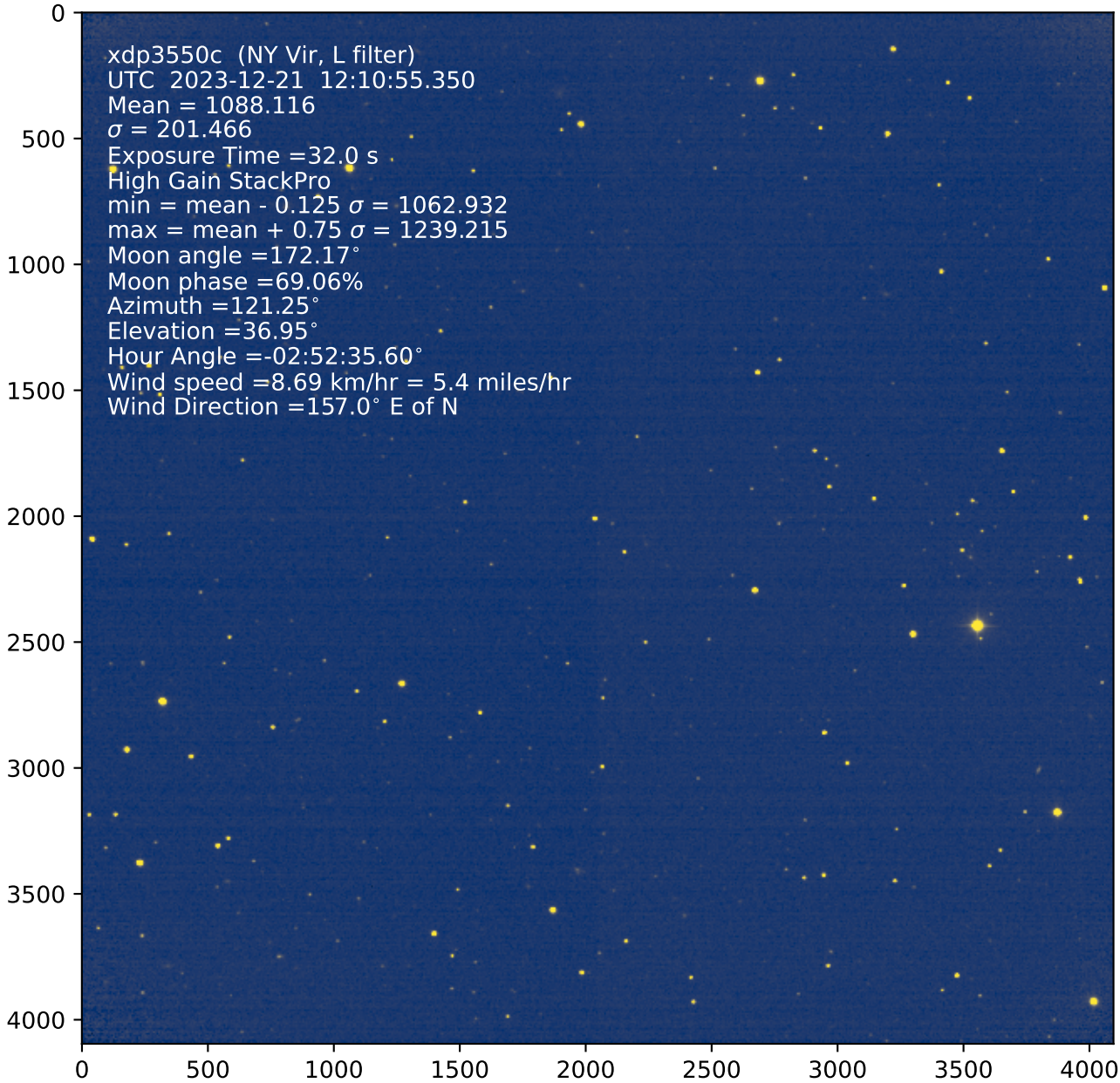
xdp3550c (NY Vir, L filter)
UTC 2023-12-21 12:10:55.350
Mean = 1088.116
σ = 201.466
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1062.932
max = mean + 0.75 σ = 1239.215
Moon angle =172.17˚
Moon phase =69.06%
Azimuth =121.25˚
Elevation =36.95˚
Hour Angle =-02:52:35.60˚
Wind speed =8.69 km/hr = 5.4 miles/hr
Wind Direction =157.0˚ E of N
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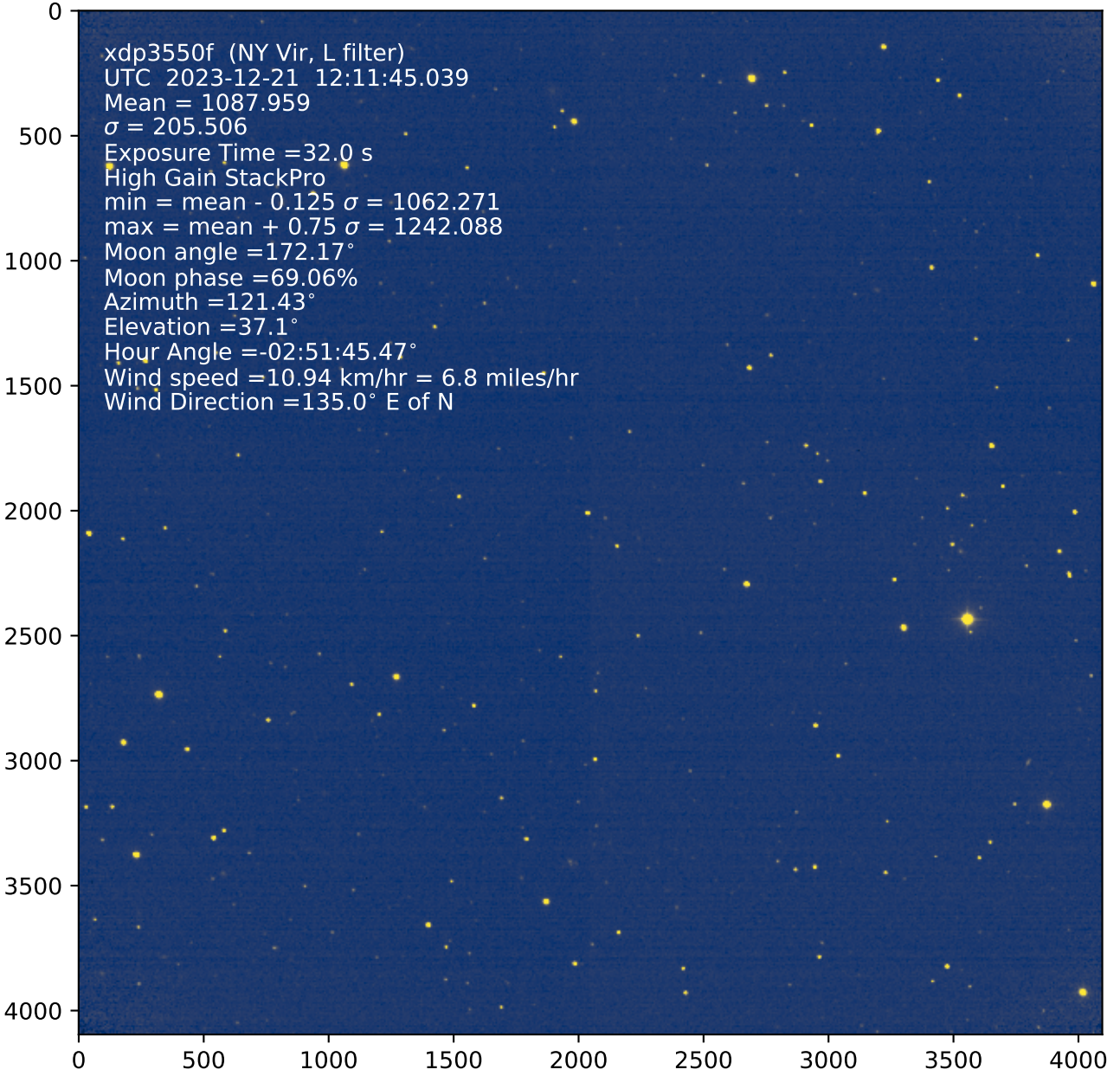
xdp3550f (NY Vir, L filter)
UTC 2023-12-21 12:11:45.039
Mean = 1087.959
σ = 205.506
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1062.271
max = mean + 0.75 σ = 1242.088
Moon angle =172.17°
Moon phase =69.06%
Azimuth =121.43°
Elevation =37.1°
Hour Angle =-02:51:45.47°
Wind speed =10.94 km/hr = 6.8 miles/hr
Wind Direction =135.0° E of N
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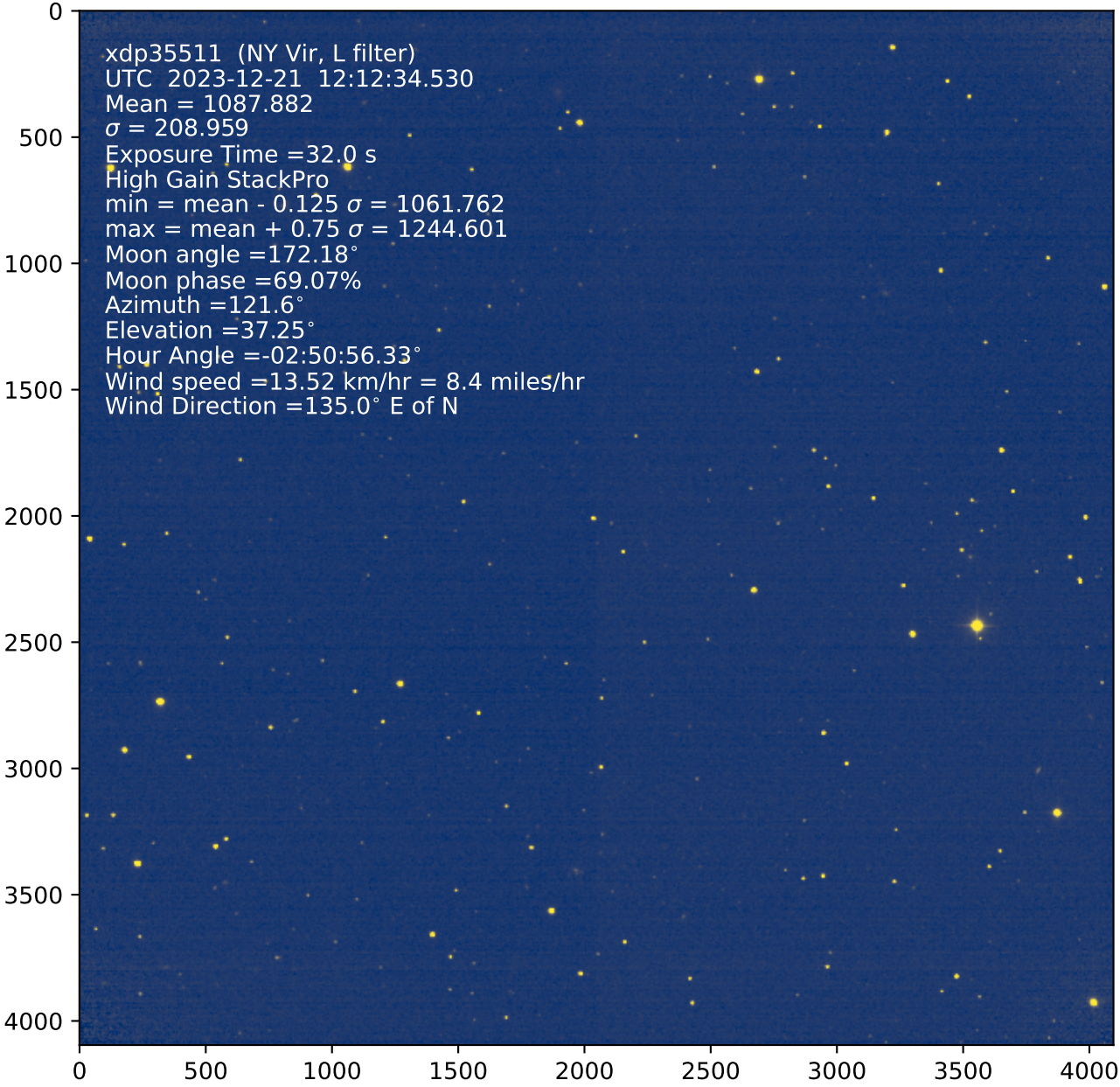
xdp35511 (NY Vir, L filter)
UTC 2023-12-21 12:12:34.530
Mean = 1087.882
σ = 208.959
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1061.762
max = mean + 0.75 σ = 1244.601
Moon angle =172.18˚
Moon phase =69.07%
Azimuth =121.6˚
Elevation =37.25˚
Hour Angle =-02:50:56.33˚
Wind speed =13.52 km/hr = 8.4 miles/hr
Wind Direction =135.0˚ E of N
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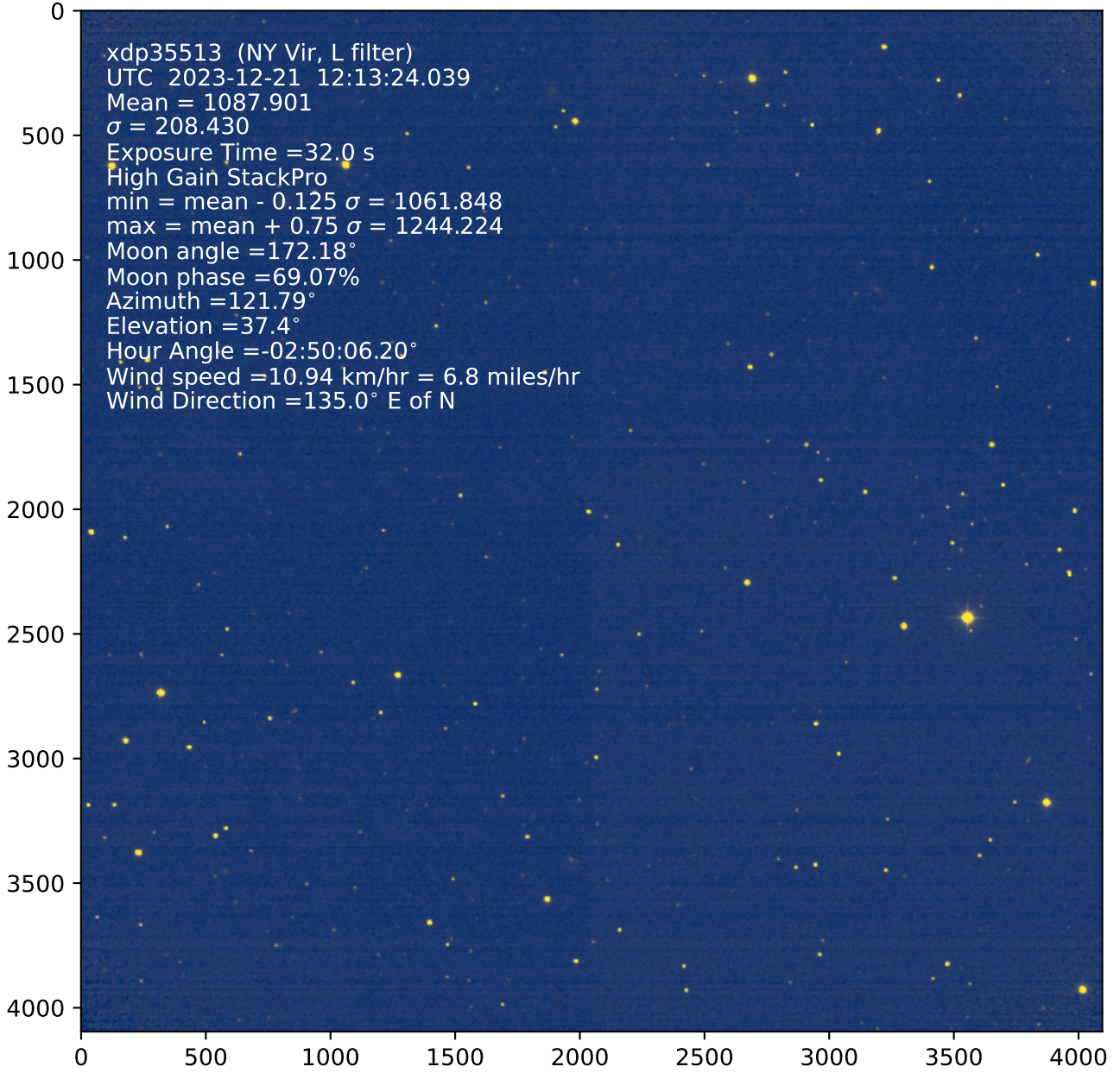
xdp35513 (NY Vir, L filter)
UTC 2023-12-21 12:13:24.039
Mean = 1087.901
σ = 208.430
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1061.848
max = mean + 0.75 σ = 1244.224
Moon angle =172.18°
Moon phase =69.07%
Azimuth =121.79°
Elevation =37.4°
Hour Angle =-02:50:06.20°
Wind speed =10.94 km/hr = 6.8 miles/hr
Wind Direction =135.0° E of N
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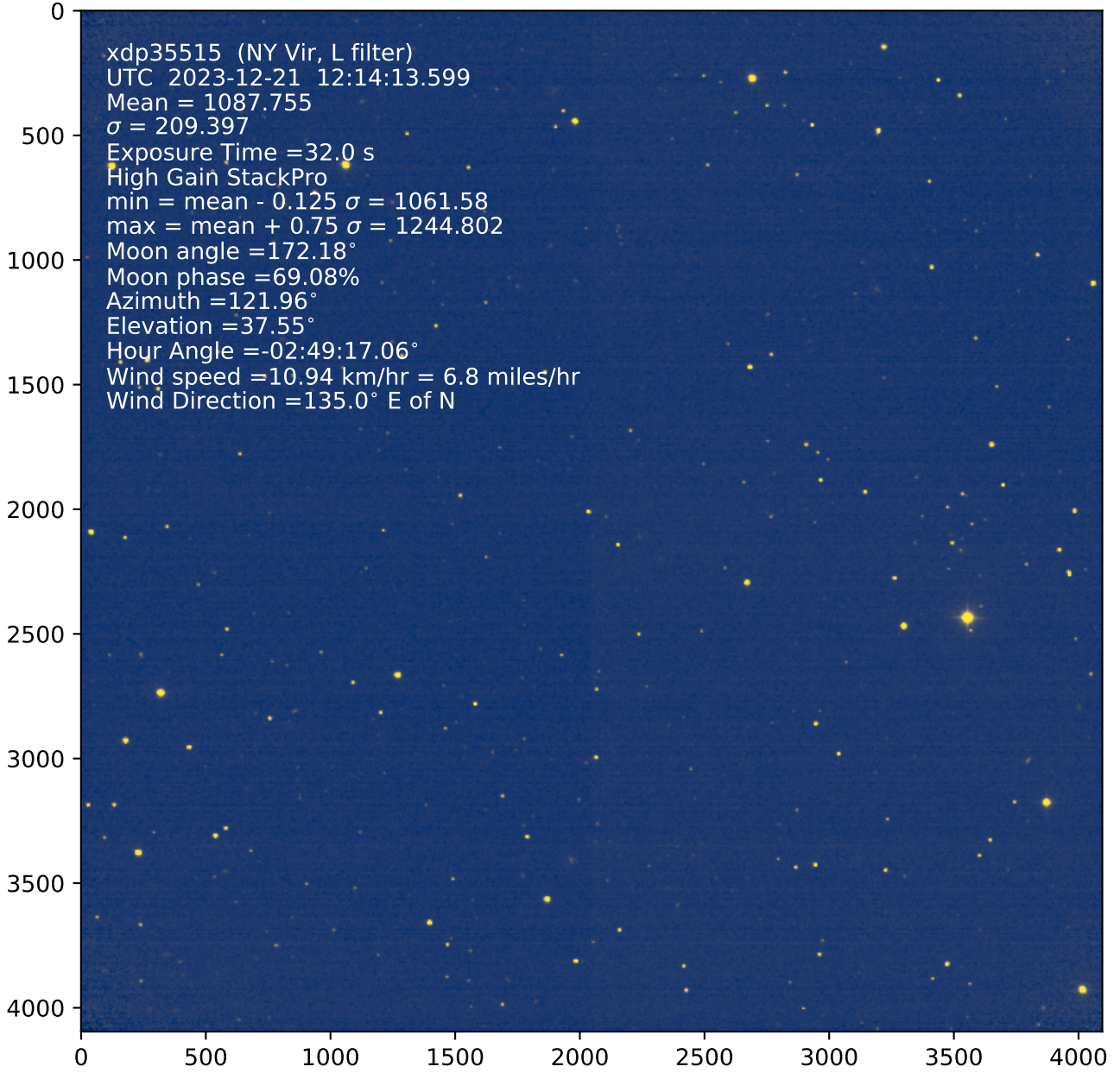
xdp35515 (NY Vir, L filter)
UTC 2023-12-21 12:14:13.599
Mean = 1087.755
σ = 209.397
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1061.58
max = mean + 0.75 σ = 1244.802
Moon angle =172.18°
Moon phase =69.08%
Azimuth =121.96°
Elevation =37.55°
Hour Angle =-02:49:17.06°
Wind speed =10.94 km/hr = 6.8 miles/hr
Wind Direction =135.0° E of N
0
500
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2500
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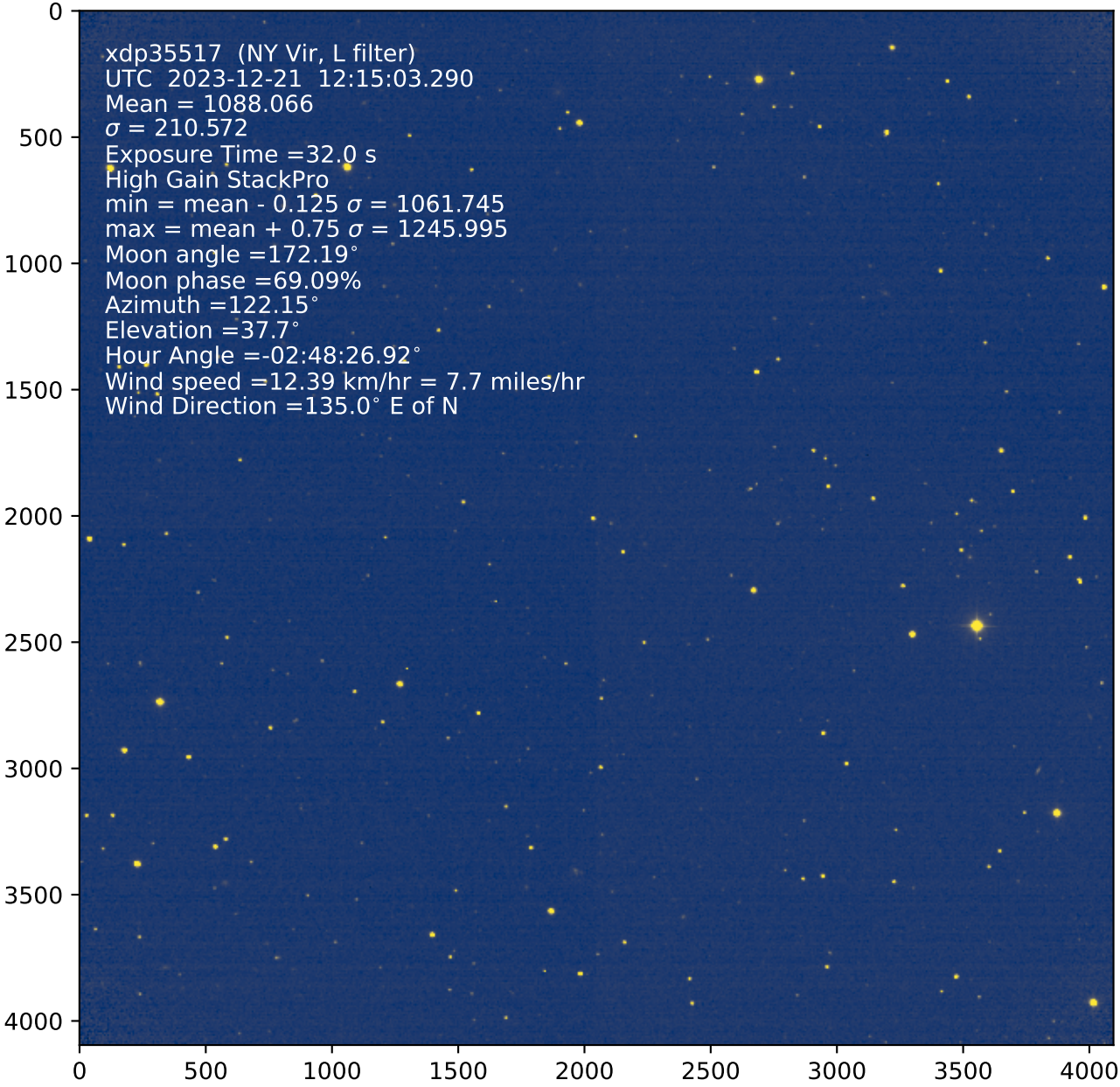
4000


xdp35517 (NY Vir, L filter)
UTC 2023-12-21 12:15:03.290
Mean = 1088.066
σ = 210.572
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1061.745
max = mean + 0.75 σ = 1245.995
Moon angle =172.19°
Moon phase =69.09%
Azimuth =122.15°
Elevation =37.7°
Hour Angle =-02:48:26.92°
Wind speed =12.39 km/hr = 7.7 miles/hr
Wind Direction =135.0° E of N
0
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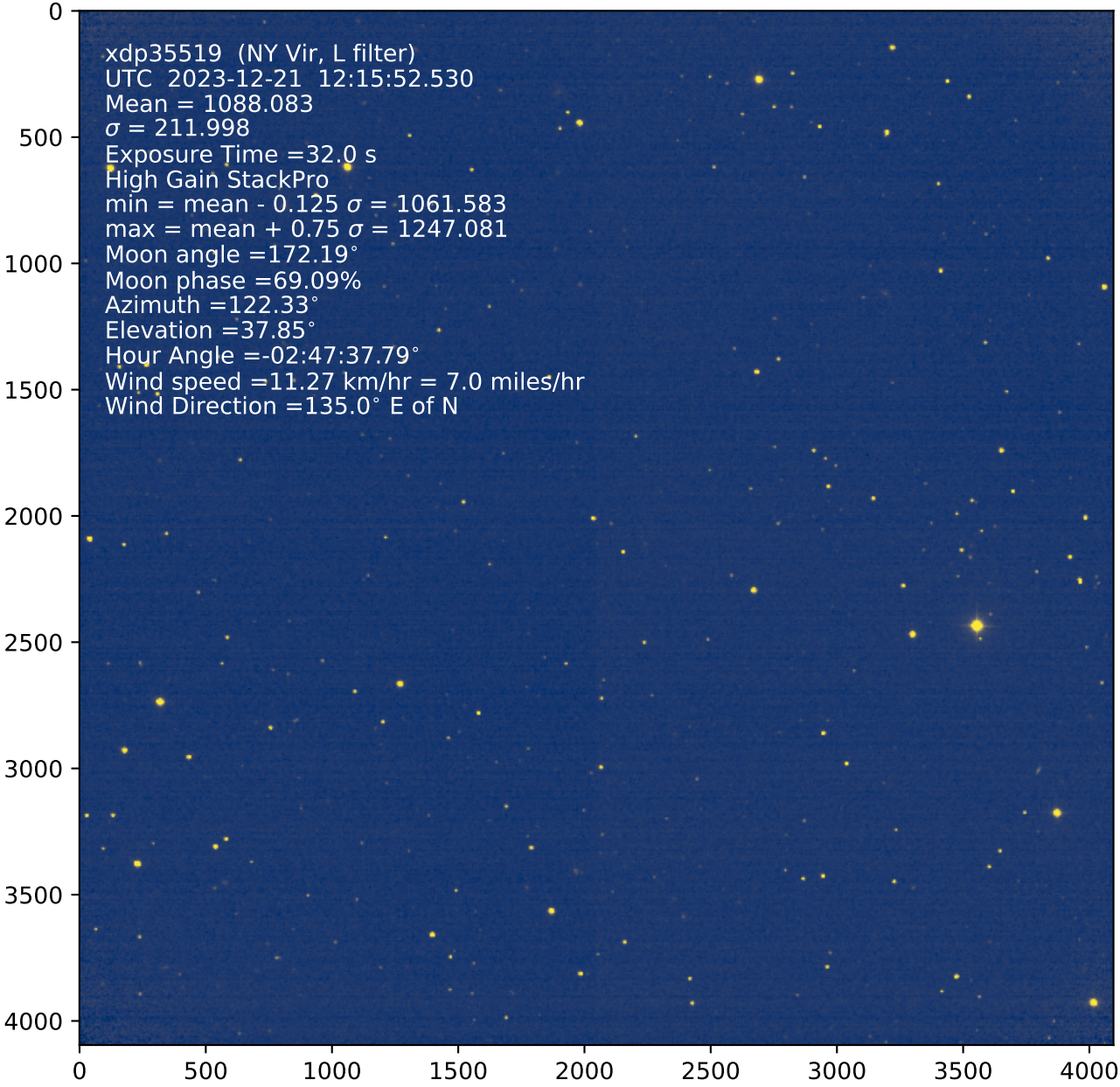
3500
4000


xdp35519 (NY Vir, L filter)
UTC 2023-12-21 12:15:52.530
Mean = 1088.083
σ = 211.998
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1061.583
max = mean + 0.75 σ = 1247.081
Moon angle =172.19°
Moon phase =69.09%
Azimuth =122.33°
Elevation =37.85°
Hour Angle =-02:47:37.79°
Wind speed =11.27 km/hr = 7.0 miles/hr
Wind Direction =135.0° E of N
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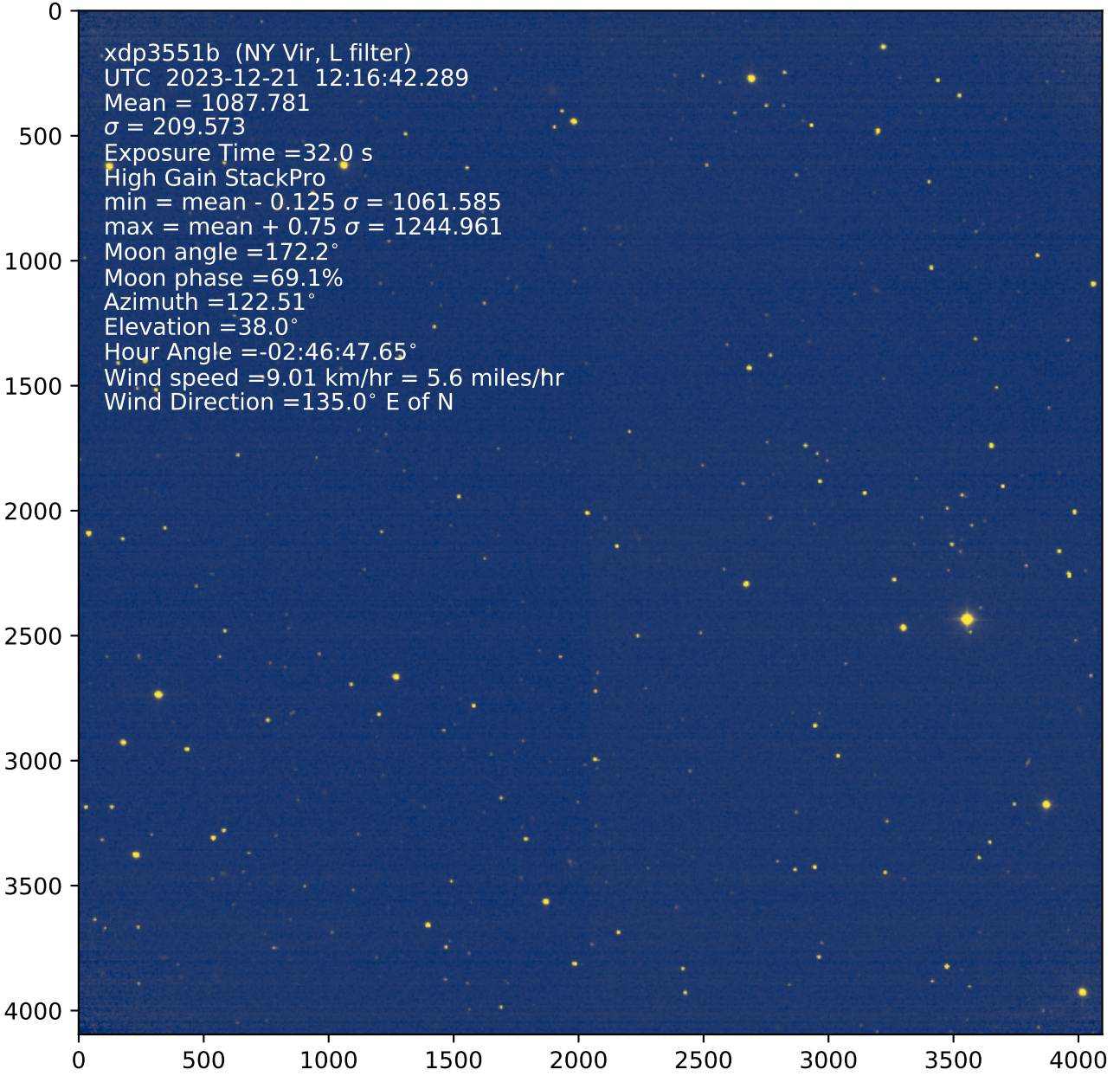
2500
3000
3500
4000


xdp3551b (NY Vir, L filter)
UTC 2023-12-21 12:16:42.289
Mean = 1087.781
σ = 209.573
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1061.585
max = mean + 0.75 σ = 1244.961
Moon angle =172.2°
Moon phase =69.1%
Azimuth =122.51°
Elevation =38.0°
Hour Angle =-02:46:47.65°
Wind speed =9.01 km/hr = 5.6 miles/hr
Wind Direction =135.0° E of N
0
500
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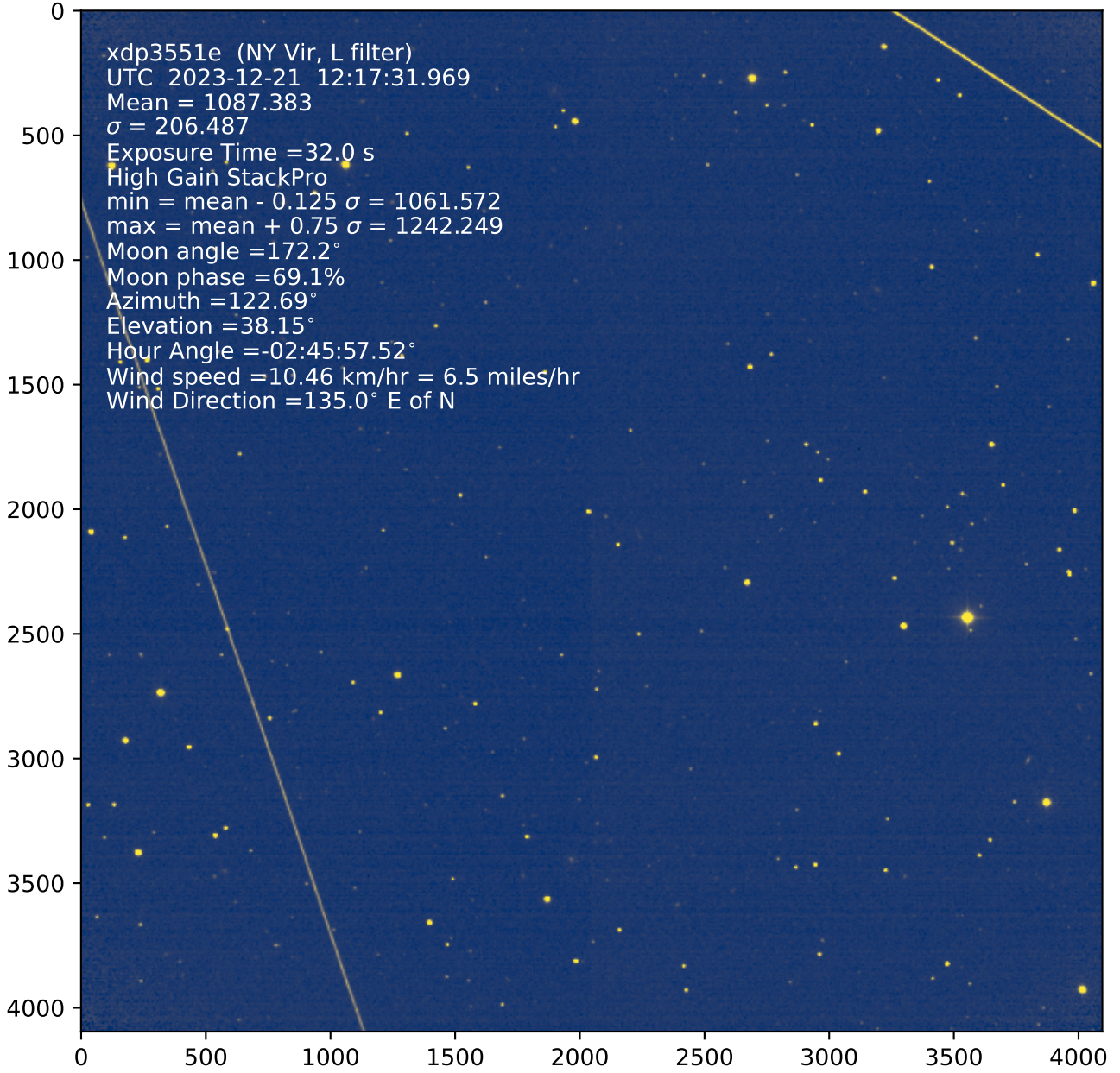
3000
3500
4000


xdp3551e (NY Vir, L filter)
UTC 2023-12-21 12:17:31.969
Mean = 1087.383
σ = 206.487
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1061.572
max = mean + 0.75 σ = 1242.249
Moon angle =172.2°
Moon phase =69.1%
Azimuth =122.69°
Elevation =38.15°
Hour Angle =-02:45:57.52°
Wind speed =10.46 km/hr = 6.5 miles/hr
Wind Direction =135.0° E of N
0
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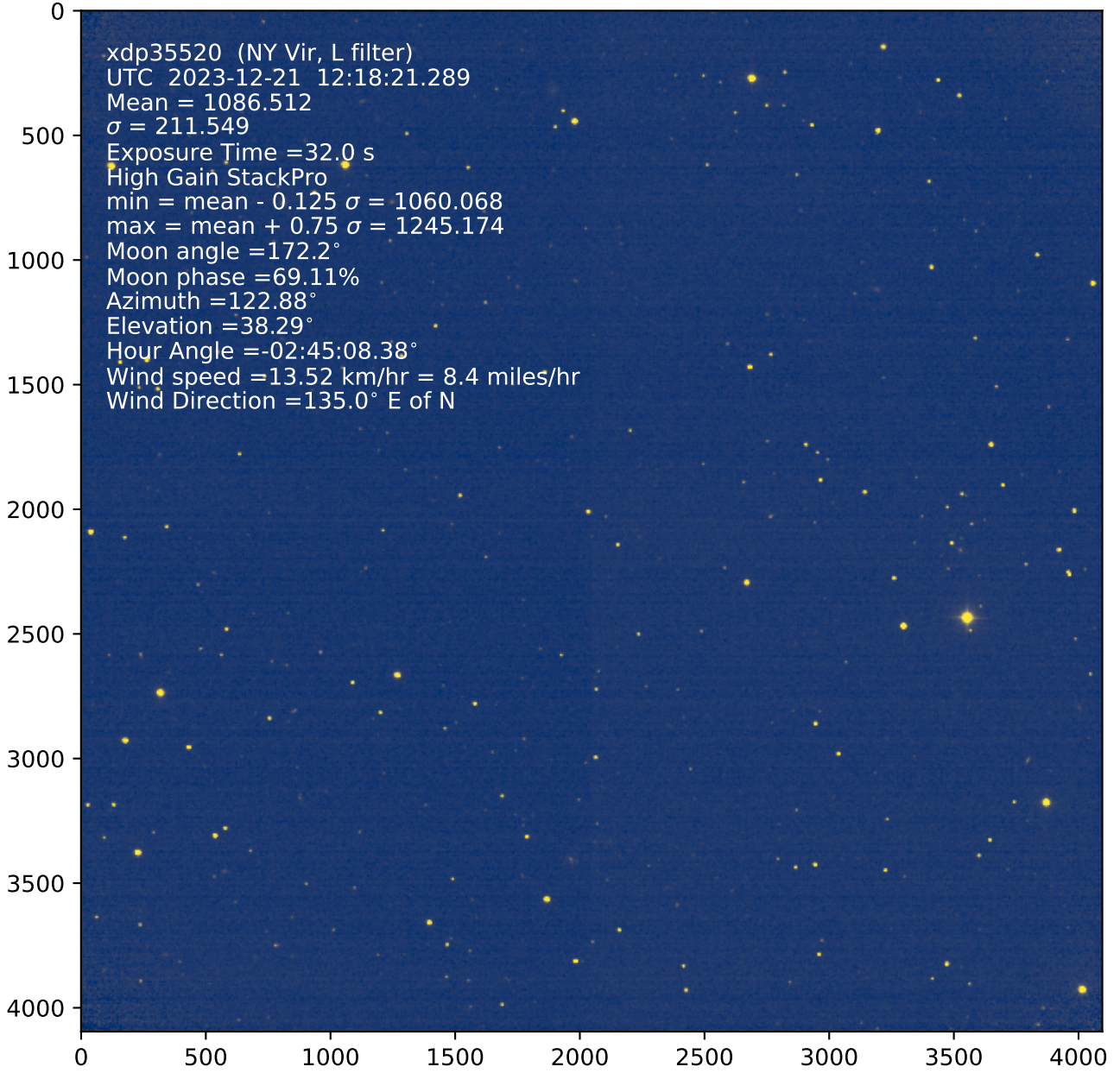
xdp35520 (NY Vir, L filter)
UTC 2023-12-21 12:18:21.289
Mean = 1086.512
σ = 211.549
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1060.068
max = mean + 0.75 σ = 1245.174
Moon angle =172.2°
Moon phase =69.11%
Azimuth =122.88°
Elevation =38.29°
Hour Angle =-02:45:08.38°
Wind speed =13.52 km/hr = 8.4 miles/hr
Wind Direction =135.0° E of N
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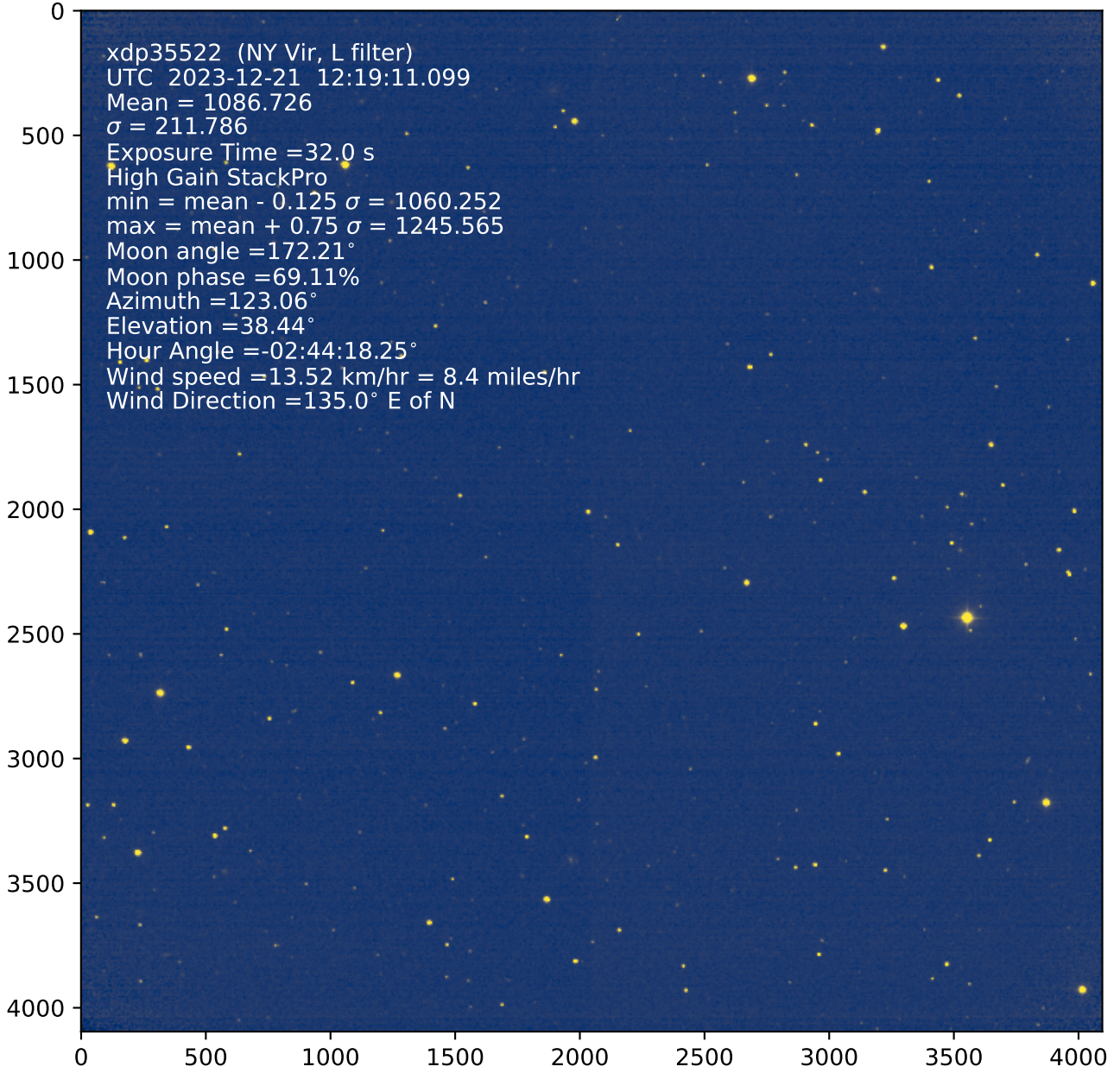
4000


xdp35522 (NY Vir, L filter)
UTC 2023-12-21 12:19:11.099
Mean = 1086.726
σ = 211.786
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1060.252
max = mean + 0.75 σ = 1245.565
Moon angle =172.21°
Moon phase =69.11%
Azimuth =123.06°
Elevation =38.44°
Hour Angle =-02:44:18.25°
Wind speed =13.52 km/hr = 8.4 miles/hr
Wind Direction =135.0° E of N
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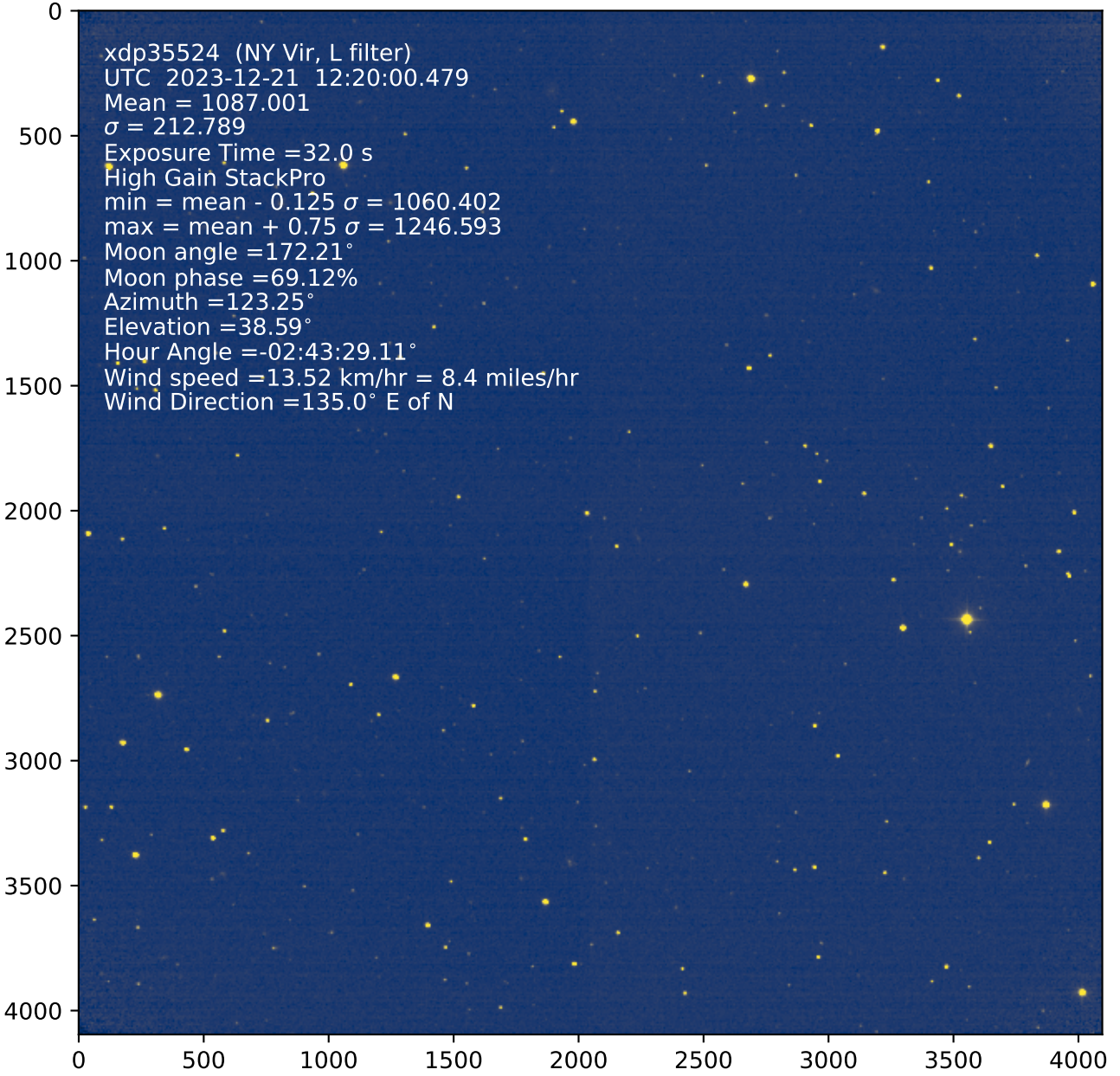
xdp35524 (NY Vir, L filter)
UTC 2023-12-21 12:20:00.479
Mean = 1087.001
σ = 212.789
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1060.402
max = mean + 0.75 σ = 1246.593
Moon angle =172.21°
Moon phase =69.12%
Azimuth =123.25°
Elevation =38.59°
Hour Angle =-02:43:29.11°
Wind speed =13.52 km/hr = 8.4 miles/hr
Wind Direction =135.0° E of N
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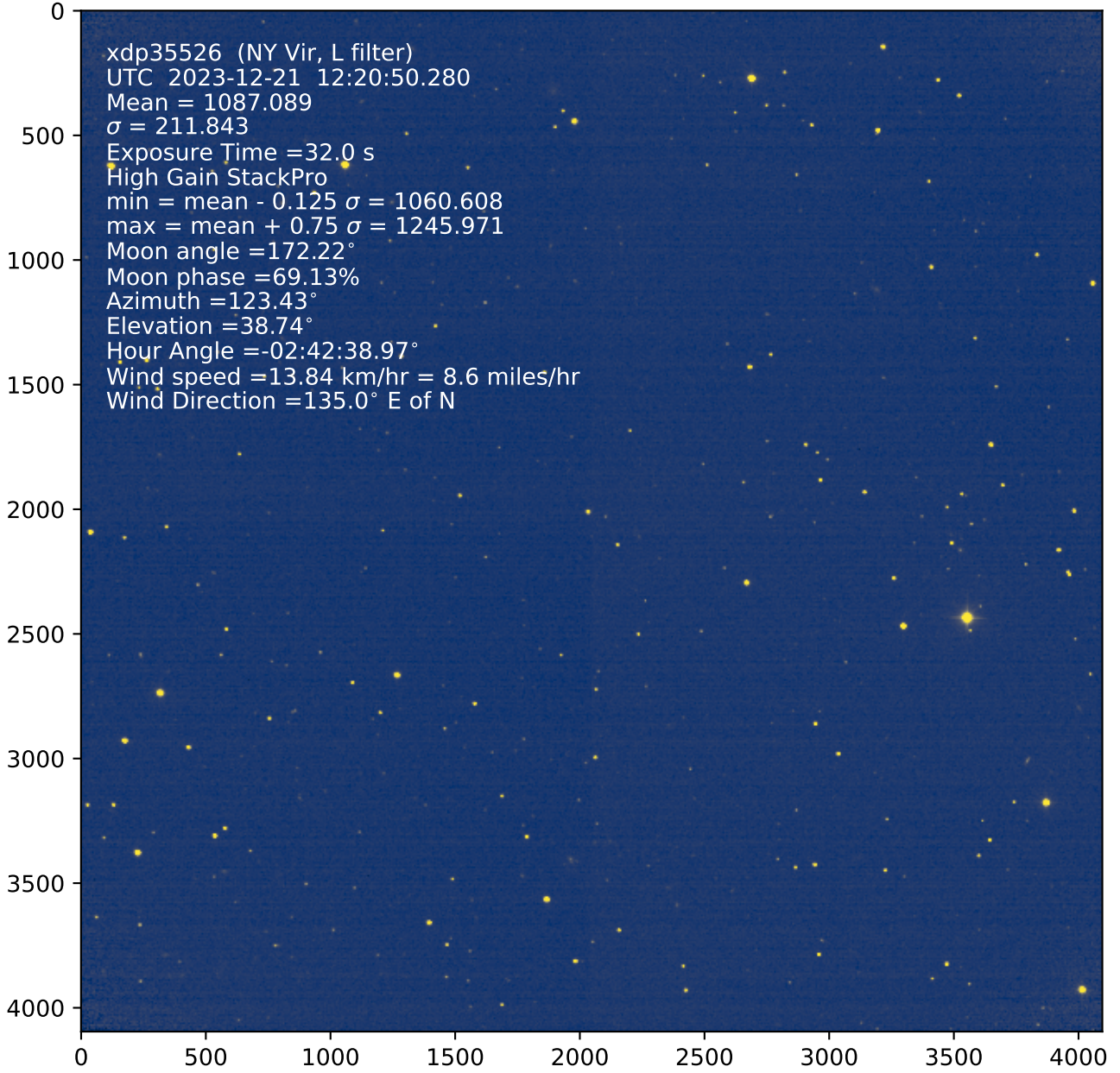
xdp35526 (NY Vir, L filter)
UTC 2023-12-21 12:20:50.280
Mean = 1087.089
σ = 211.843
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1060.608
max = mean + 0.75 σ = 1245.971
Moon angle =172.22°
Moon phase =69.13%
Azimuth =123.43°
Elevation =38.74°
Hour Angle =-02:42:38.97°
Wind speed =13.84 km/hr = 8.6 miles/hr
Wind Direction =135.0° E of N
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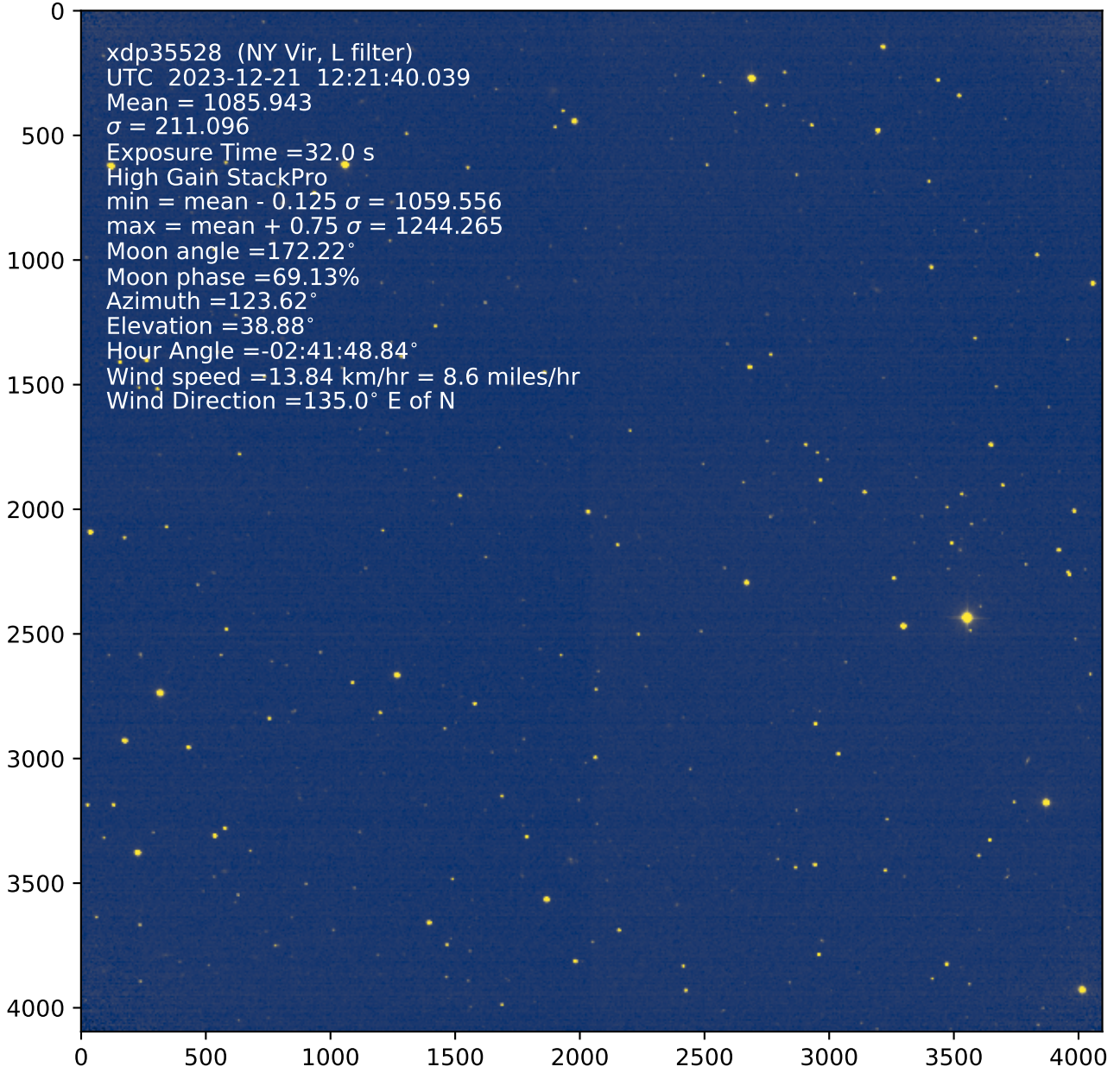
3500
4000


xdp35528 (NY Vir, L filter)
UTC 2023-12-21 12:21:40.039
Mean = 1085.943
σ = 211.096
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1059.556
max = mean + 0.75 σ = 1244.265
Moon angle =172.22°
Moon phase =69.13%
Azimuth =123.62°
Elevation =38.88°
Hour Angle =-02:41:48.84°
Wind speed =13.84 km/hr = 8.6 miles/hr
Wind Direction =135.0° E of N
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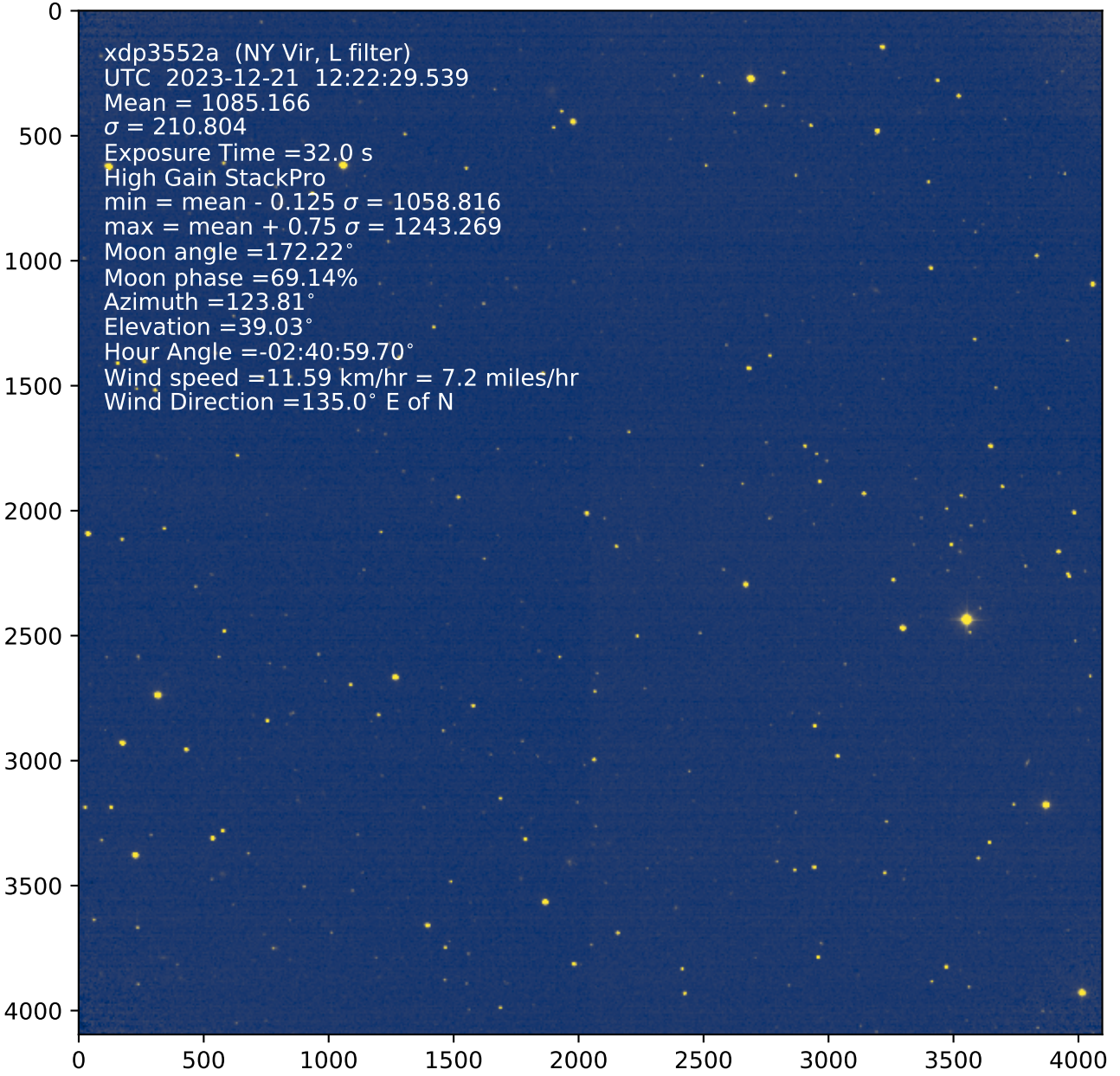
xdp3552a (NY Vir, L filter)
UTC 2023-12-21 12:22:29.539
Mean = 1085.166
σ = 210.804
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1058.816
max = mean + 0.75 σ = 1243.269
Moon angle =172.22°
Moon phase =69.14%
Azimuth =123.81°
Elevation =39.03°
Hour Angle =-02:40:59.70°
Wind speed =11.59 km/hr = 7.2 miles/hr
Wind Direction =135.0° E of N
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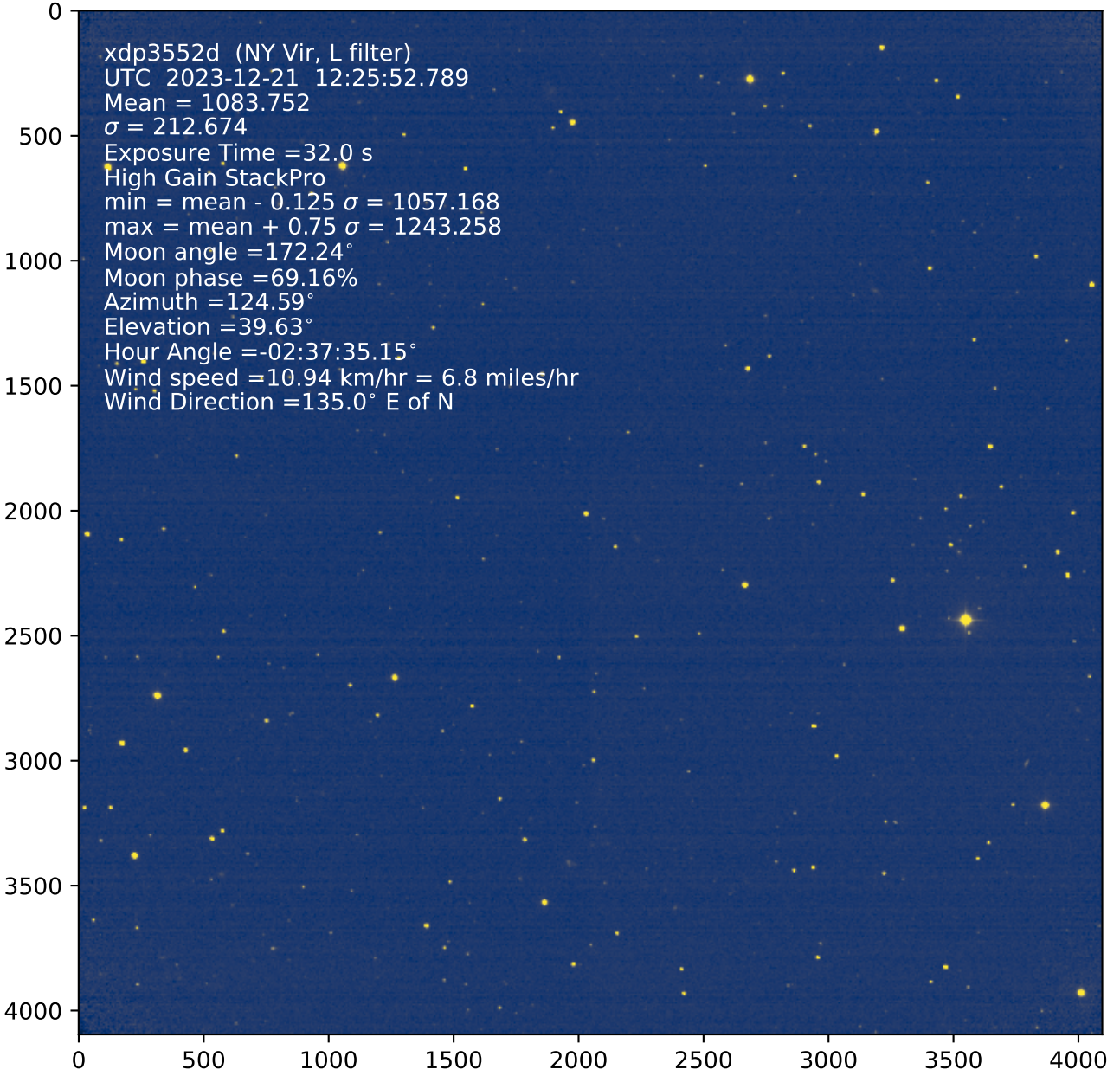
4000


xdp3552d (NY Vir, L filter)
UTC 2023-12-21 12:25:52.789
Mean = 1083.752
σ = 212.674
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1057.168
max = mean + 0.75 σ = 1243.258
Moon angle =172.24°
Moon phase =69.16%
Azimuth =124.59°
Elevation =39.63°
Hour Angle =-02:37:35.15°
Wind speed =10.94 km/hr = 6.8 miles/hr
Wind Direction =135.0° E of N
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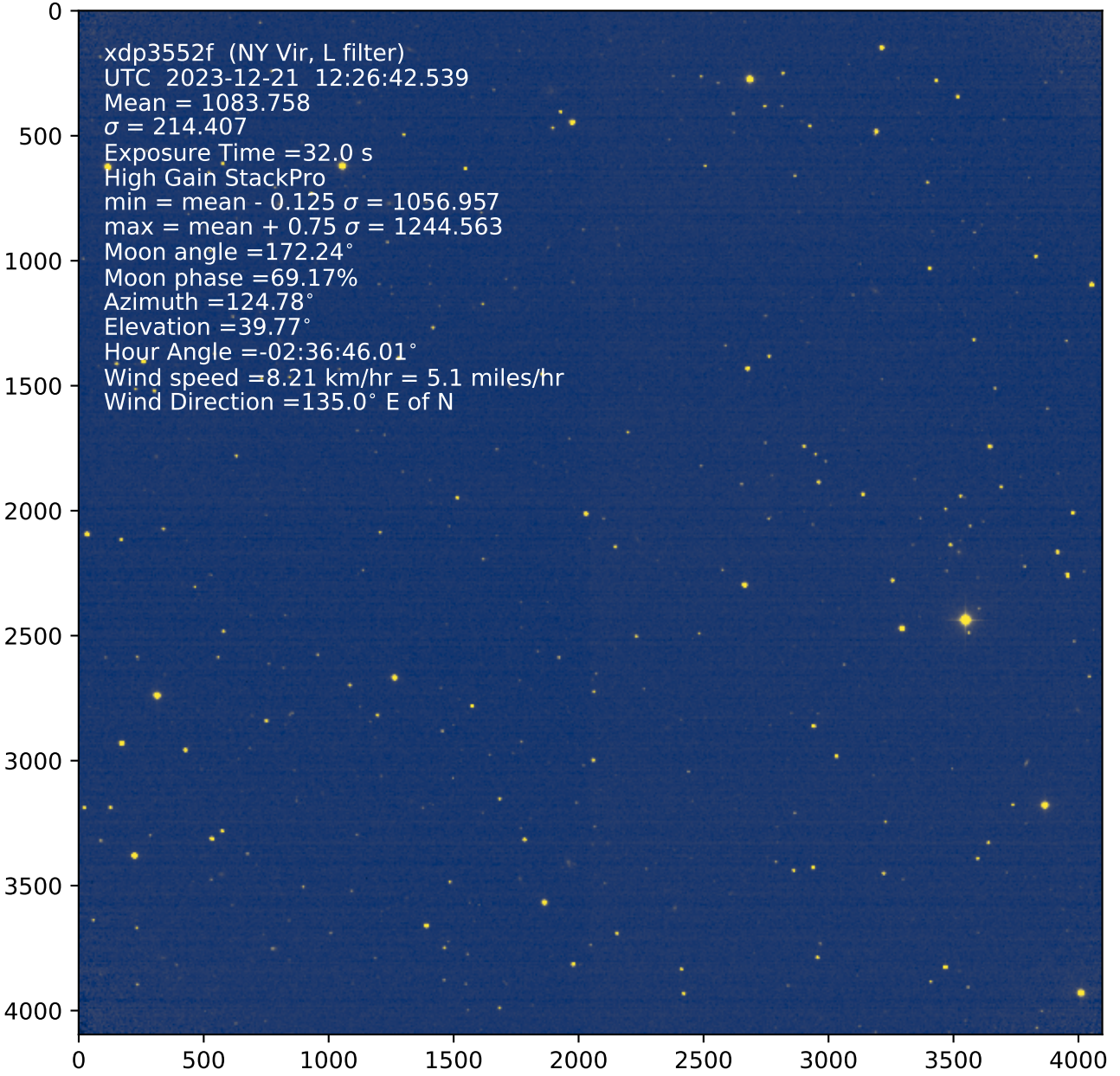
xdp3552f (NY Vir, L filter)
UTC 2023-12-21 12:26:42.539
Mean = 1083.758
σ = 214.407
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1056.957
max = mean + 0.75 σ = 1244.563
Moon angle =172.24°
Moon phase =69.17%
Azimuth =124.78°
Elevation =39.77°
Hour Angle =-02:36:46.01°
Wind speed =8.21 km/hr = 5.1 miles/hr
Wind Direction =135.0° E of N
0
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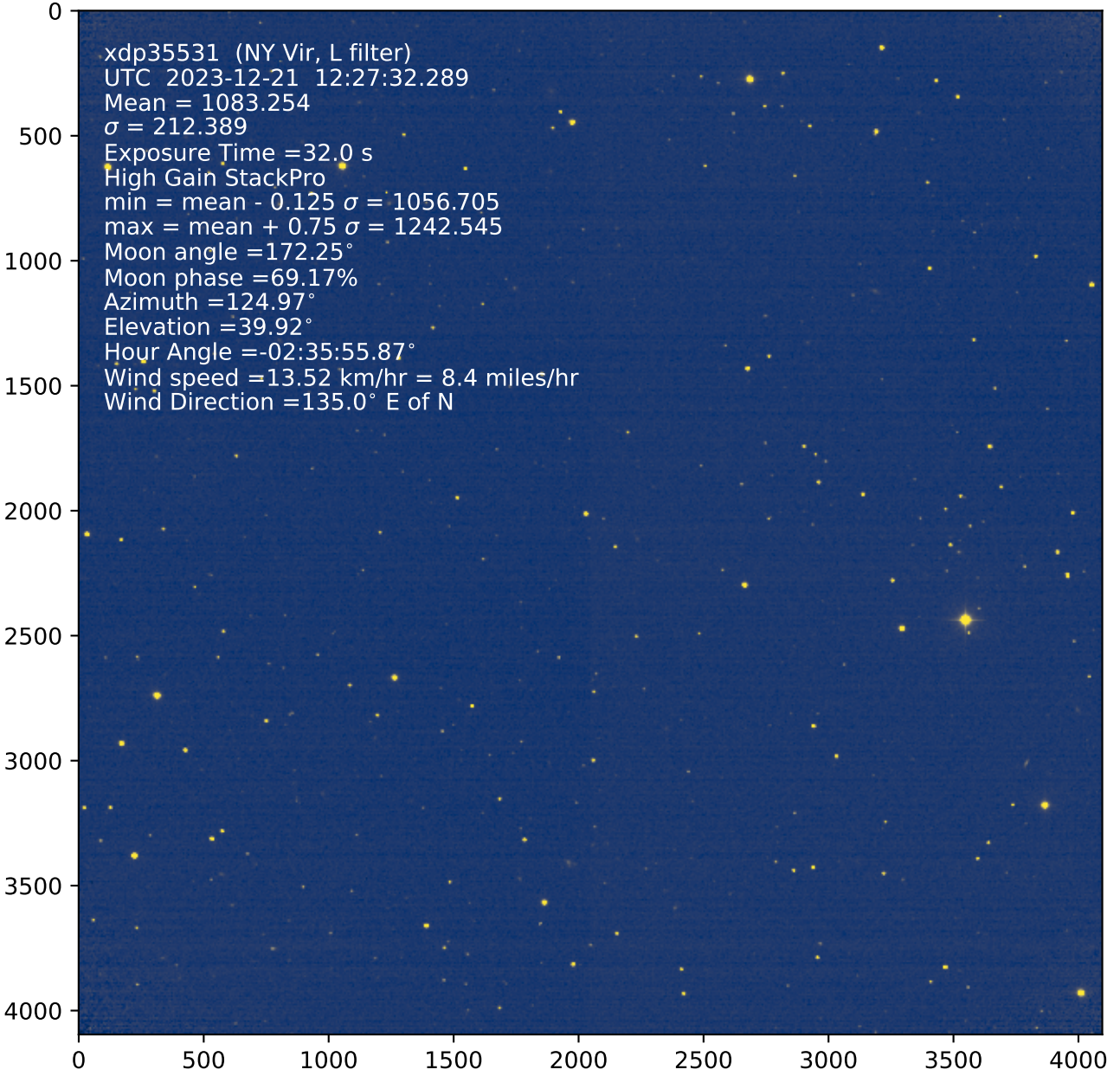
xdp35531 (NY Vir, L filter)
UTC 2023-12-21 12:27:32.289
Mean = 1083.254
σ = 212.389
Exposure Time =32.0 s
High Gain StackPro
min = mean - 0.125 σ = 1056.705
max = mean + 0.75 σ = 1242.545
Moon angle =172.25°
Moon phase =69.17%
Azimuth =124.97°
Elevation =39.92°
Hour Angle =-02:35:55.87°
Wind speed =13.52 km/hr = 8.4 miles/hr
Wind Direction =135.0° E of N
0
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2500
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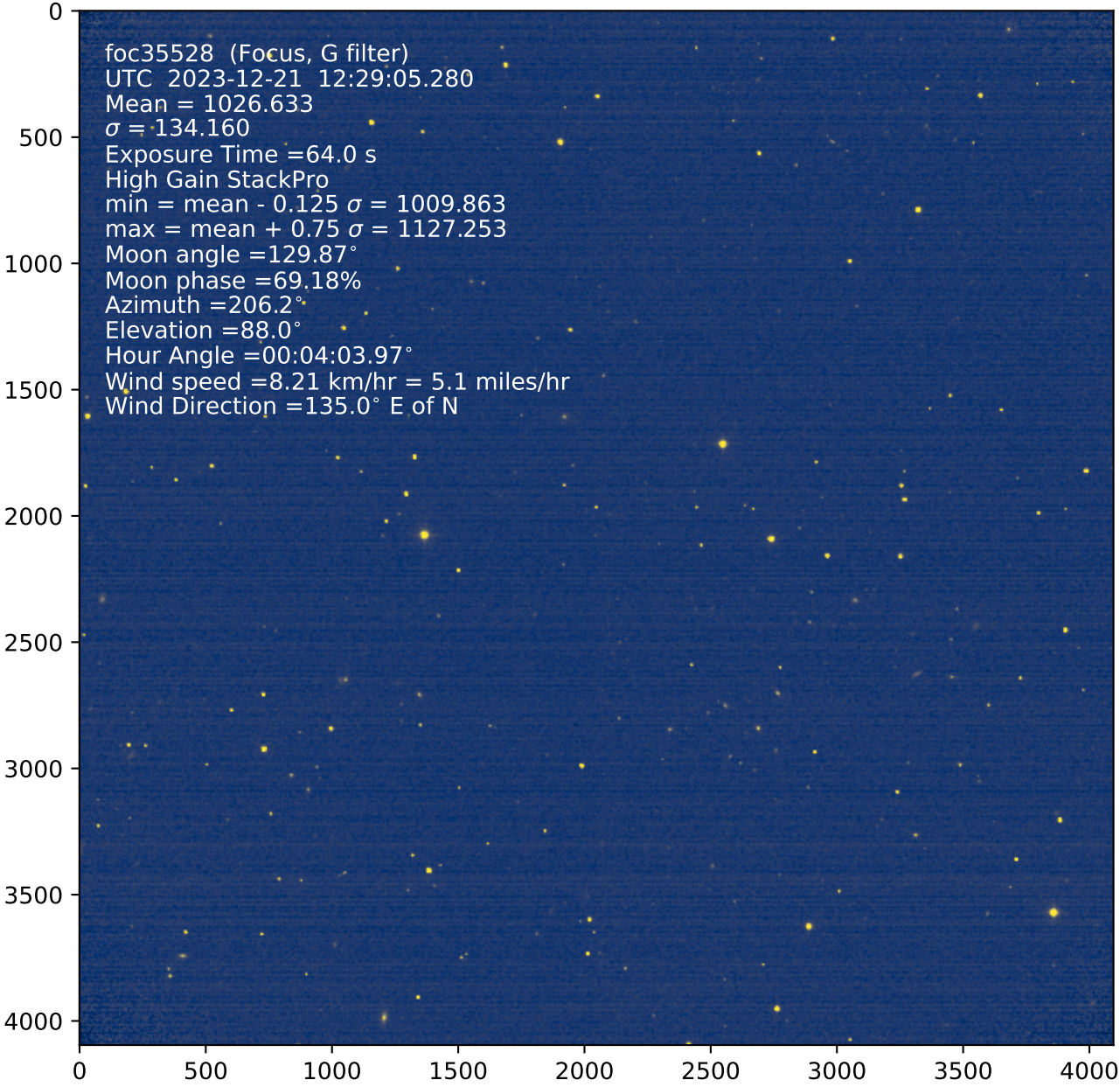
3500
4000


foc35528 (Focus, G filter)
UTC 2023-12-21 12:29:05.280
Mean = 1026.633
σ = 134.160
Exposure Time =64.0 s
High Gain StackPro
min = mean - 0.125 σ = 1009.863
max = mean + 0.75 σ = 1127.253
Moon angle =129.87°
Moon phase =69.18%
Azimuth =206.2°
Elevation =88.0°
Hour Angle =00:04:03.97°
Wind speed =8.21 km/hr = 5.1 miles/hr
Wind Direction =135.0° E of N
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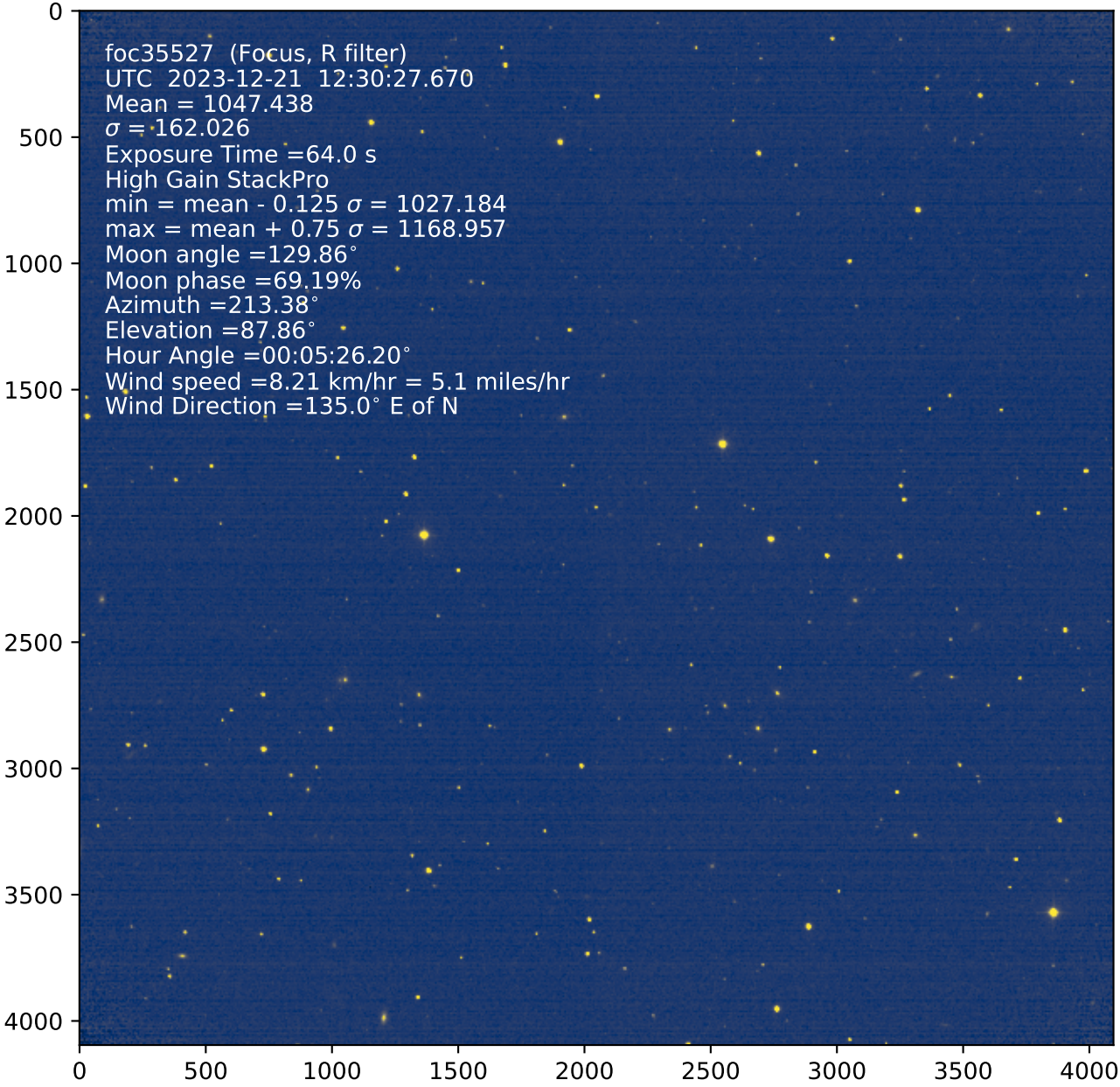
foc35527 (Focus, R filter)
UTC 2023-12-21 12:30:27.670
Mean = 1047.438
σ = 162.026
Exposure Time =64.0 s
High Gain StackPro
min = mean - 0.125 σ = 1027.184
max = mean + 0.75 σ = 1168.957
Moon angle =129.86°
Moon phase =69.19%
Azimuth =213.38°
Elevation =87.86°
Hour Angle =00:05:26.20°
Wind speed =8.21 km/hr = 5.1 miles/hr
Wind Direction =135.0° E of N
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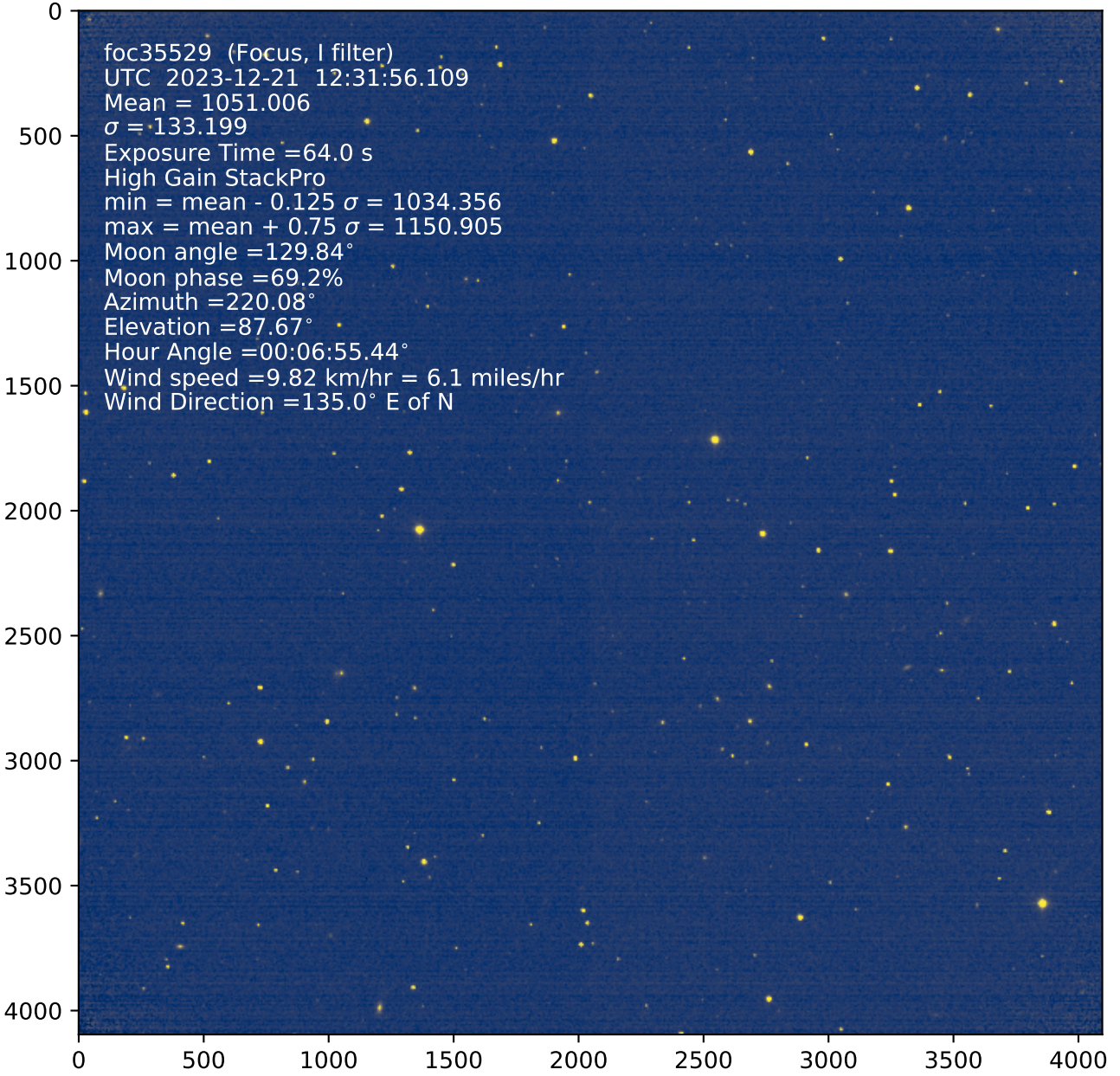
foc35529 (Focus, I filter)
UTC 2023-12-21 12:31:56.109
Mean = 1051.006
σ = 133.199
Exposure Time =64.0 s
High Gain StackPro
min = mean - 0.125 σ = 1034.356
max = mean + 0.75 σ = 1150.905
Moon angle =129.84°
Moon phase =69.2%
Azimuth =220.08°
Elevation =87.67°
Hour Angle =00:06:55.44°
Wind speed =9.82 km/hr = 6.1 miles/hr
Wind Direction =135.0° E of N
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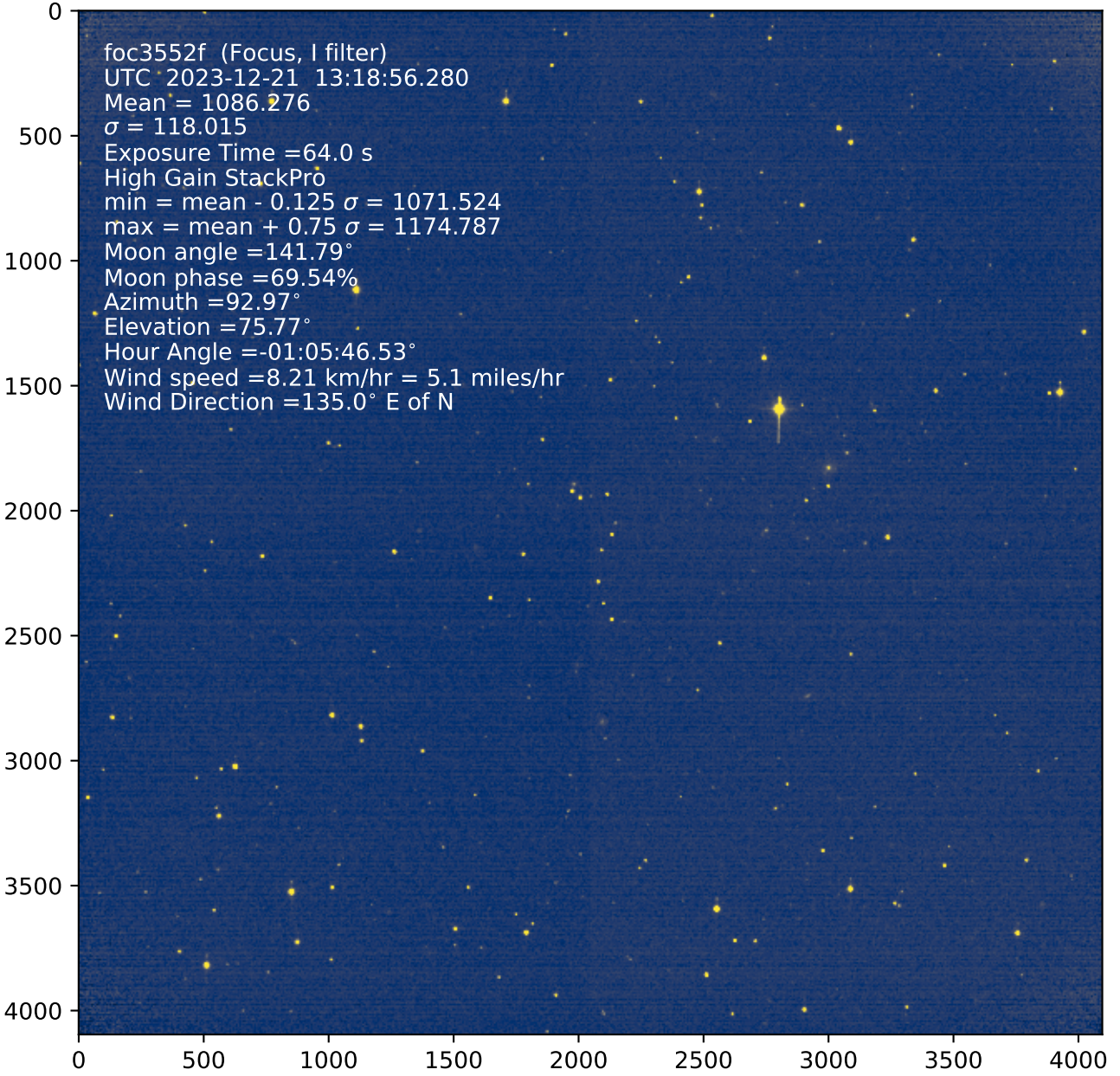
foc3552f (Focus, I filter)
UTC 2023-12-21 13:18:56.280
Mean = 1086.276
σ = 118.015
Exposure Time =64.0 s
High Gain StackPro
min = mean - 0.125 σ = 1071.524
max = mean + 0.75 σ = 1174.787
Moon angle =141.79°
Moon phase =69.54%
Azimuth =92.97°
Elevation =75.77°
Hour Angle =-01:05:46.53°
Wind speed =8.21 km/hr = 5.1 miles/hr
Wind Direction =135.0° E of N
0
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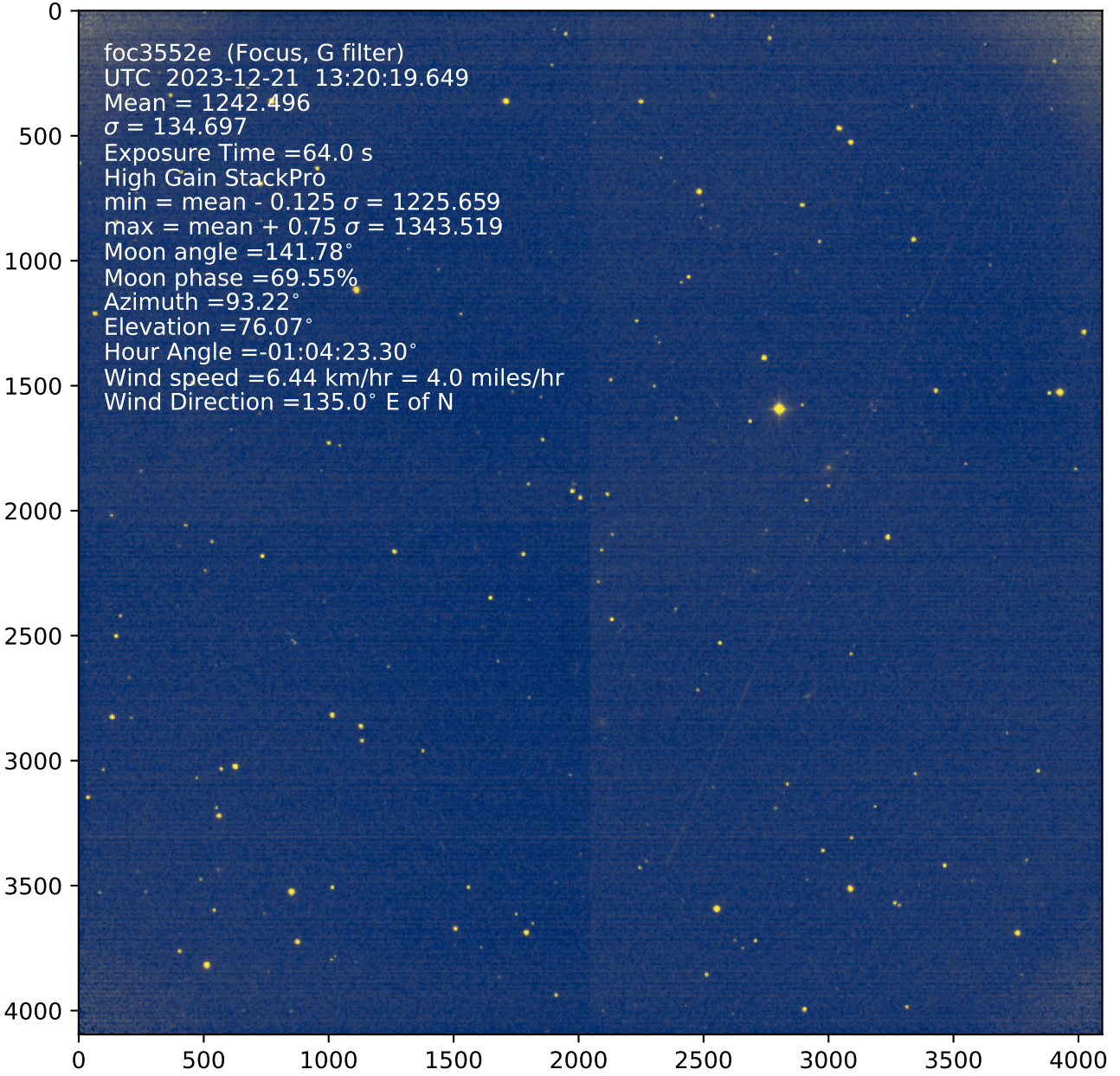
foc3552e (Focus, G filter)
UTC 2023-12-21 13:20:19.649
Mean = 1242.496
σ = 134.697
Exposure Time =64.0 s
High Gain StackPro
min = mean - 0.125 σ = 1225.659
max = mean + 0.75 σ = 1343.519
Moon angle =141.78°
Moon phase =69.55%
Azimuth =93.22°
Elevation =76.07°
Hour Angle =-01:04:23.30°
Wind speed =6.44 km/hr = 4.0 miles/hr
Wind Direction =135.0° E of N
0
500
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3500
4000