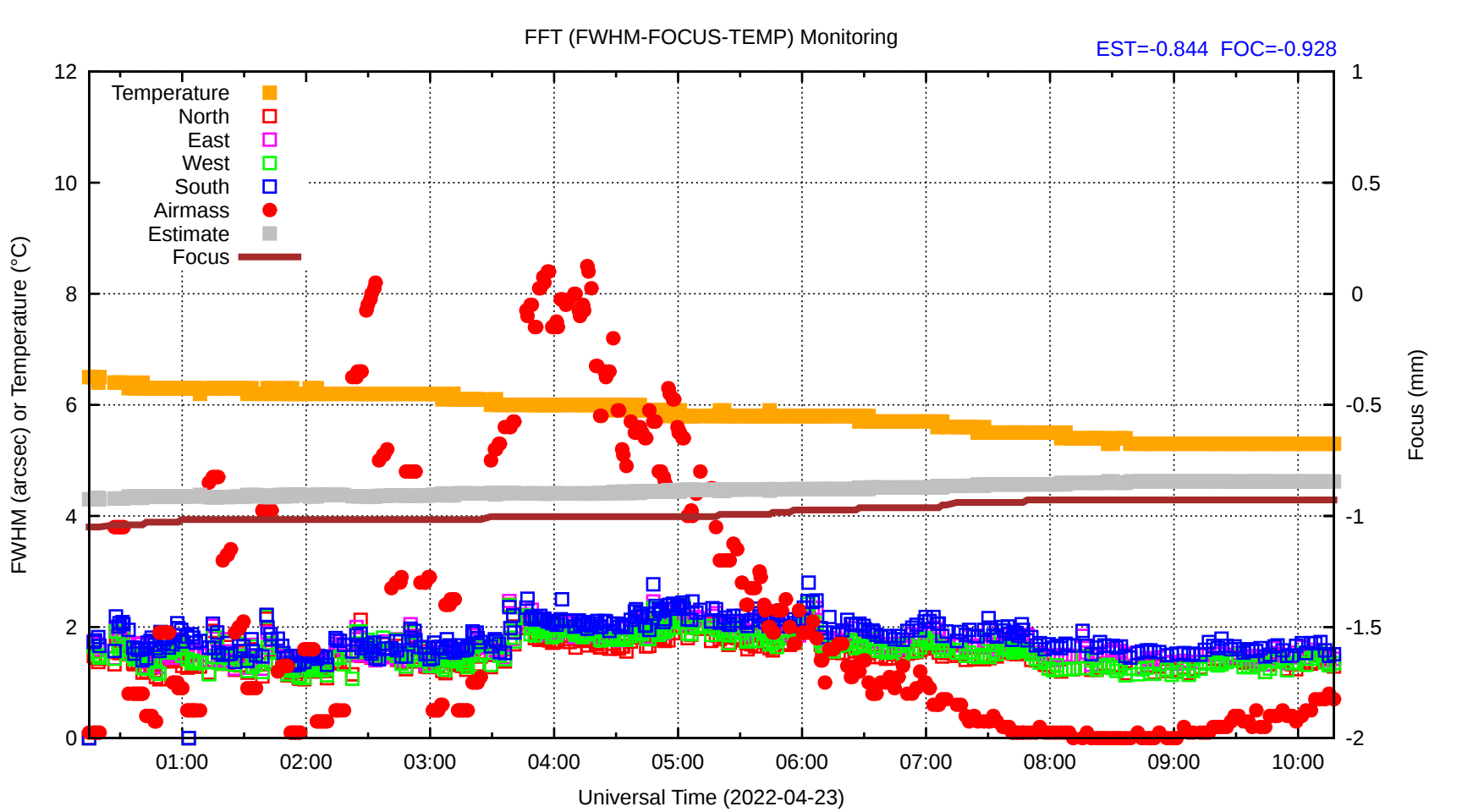
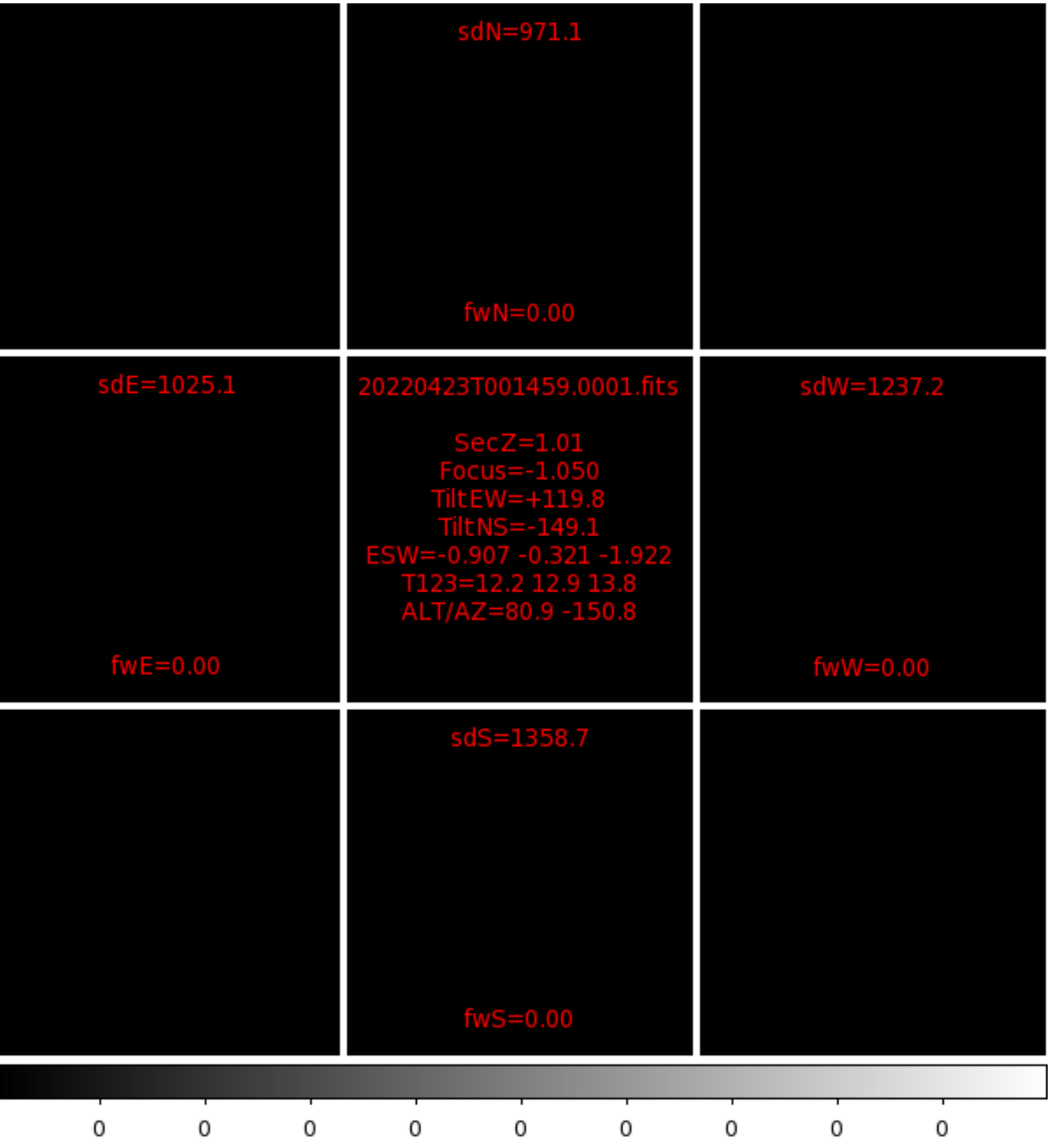

FFT (FWHM-FOCUS-TEMP) Monitoring
EST=-0.844 FOC=-0.928
Temperature
North
East
West
South
Airmass
Estimate
Focus
FWHM (arcsec) or Temperature (°C)
Focus (mm)
Universal Time (2022-04-23)
0
2
4
6
8
10
12
-2
-1.5
-1
-0.5
0
0.5
1
01:00
02:00
03:00
04:00
05:00
06:00
07:00
08:00
09:00
10:00


sdN=971.1
fwN=0.00
sdE=1025.1
fwE=0.00
20220423T001459.0001.fits
SecZ=1.01
Focus=-1.050
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.907 -0.321 -1.922
T123=12.2 12.9 13.8
ALT/AZ=80.9 -150.8
sdW=1237.2
fwW=0.00
sdS=1358.7
fwS=0.00
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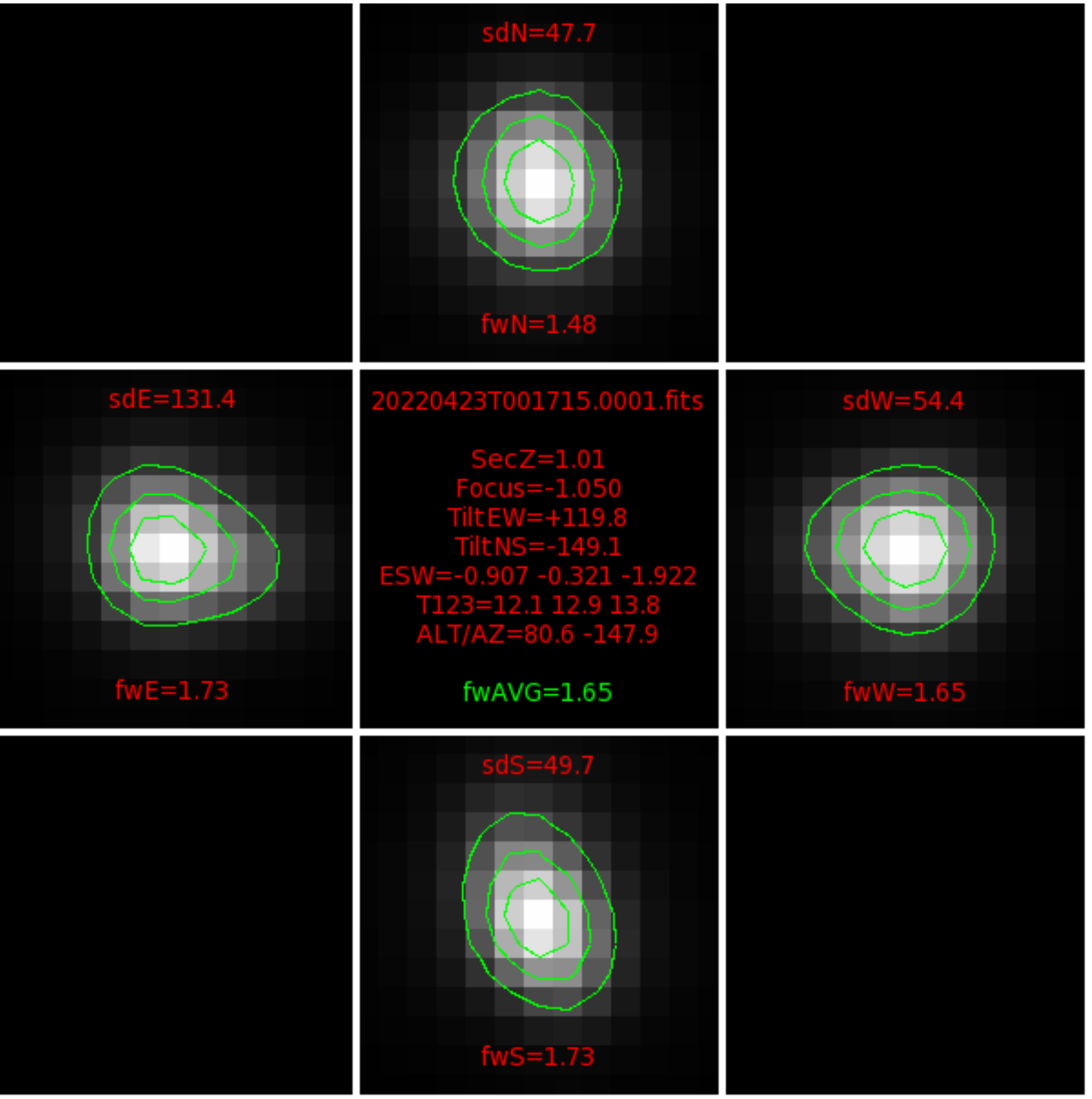
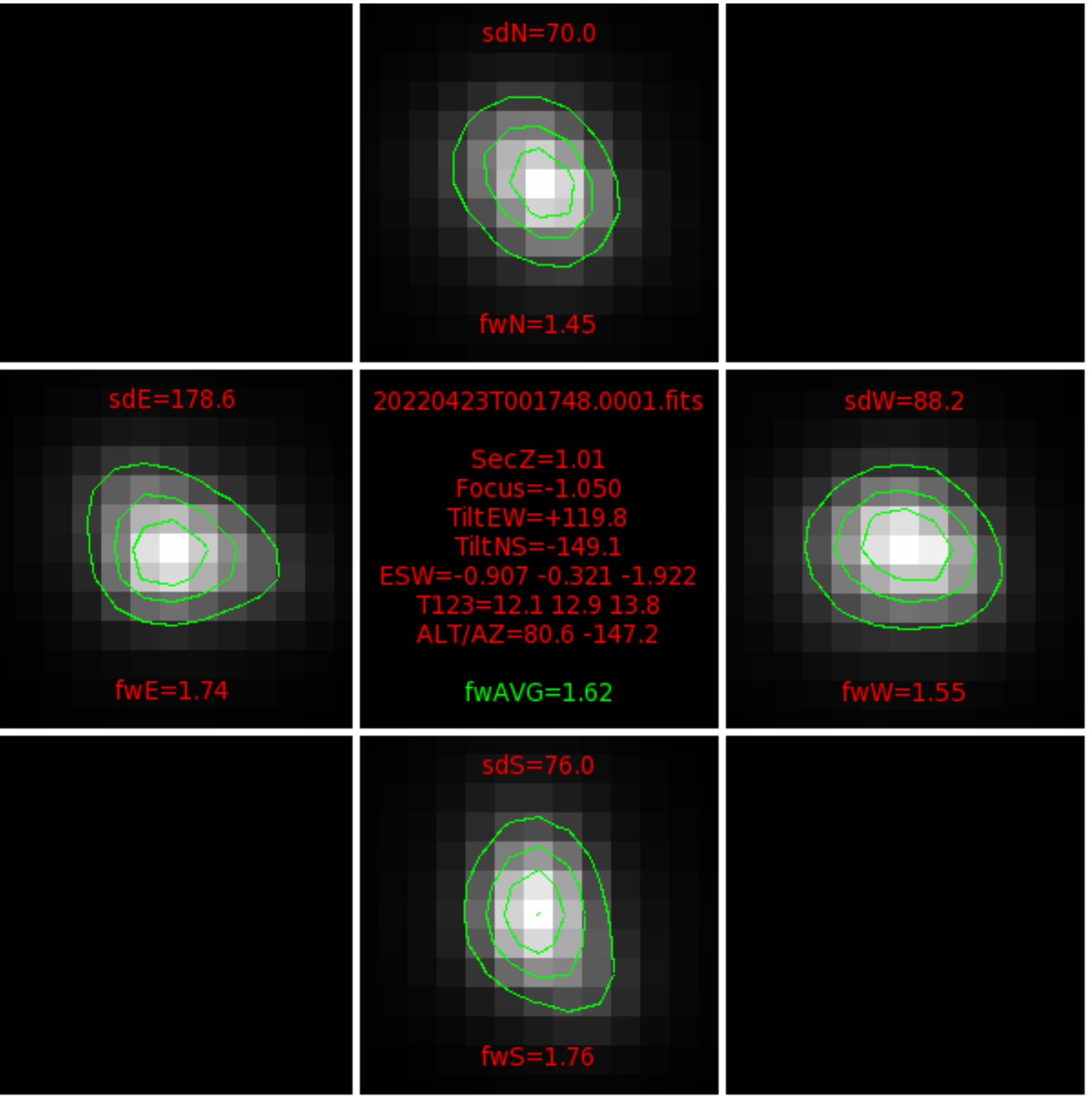

sdN=47.7
fwN=1.48
sdE=131.4
fwE=1.73
20220423T001715.0001.fits
SecZ=1.01
Focus=-1.050
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.907 -0.321 -1.922
T123=12.1 12.9 13.8
ALT/AZ=80.6 -147.9
fwAVG=1.65
sdW=54.4
fwW=1.65
sdS=49.7
fwS=1.73
0 0 0 0 0 0 0 0 0


sdN=70.0
fwN=1.45
sdE=178.6
fwE=1.74
20220423T001748.0001.fits
SecZ=1.01
Focus=-1.050
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.907 -0.321 -1.922
T123=12.1 12.9 13.8
ALT/AZ=80.6 -147.2
fwAVG=1.62
sdW=88.2
fwW=1.55
sdS=76.0
fwS=1.76
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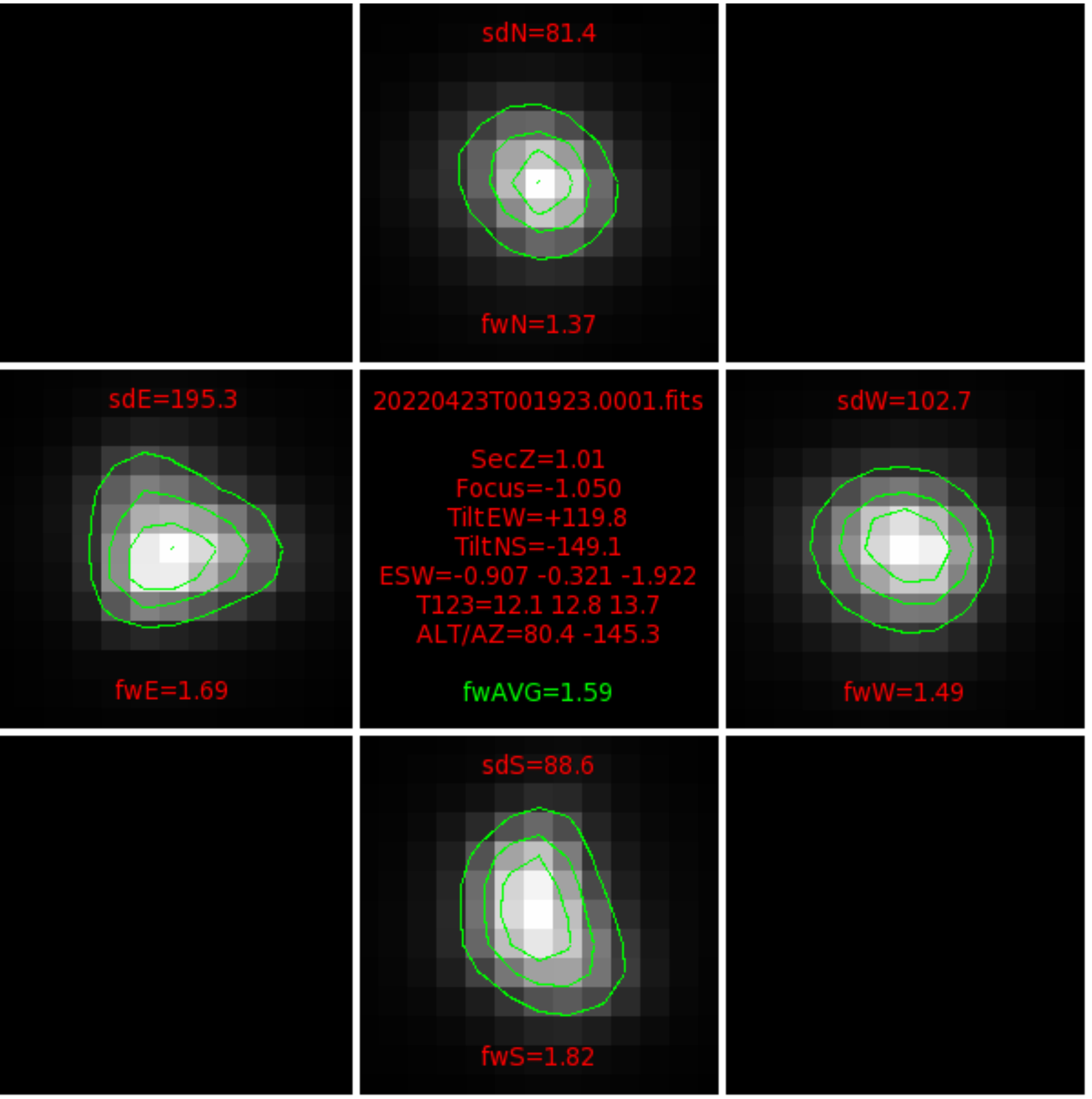
sdN=81.4
fwN=1.37
sdE=195.3
fwE=1.69
20220423T001923.0001.fits
SecZ=1.01
Focus=-1.050
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.907 -0.321 -1.922
T123=12.1 12.8 13.7
ALT/AZ=80.4 -145.3
fwAVG=1.59
sdW=102.7
fwW=1.49
sdS=88.6
fwS=1.82
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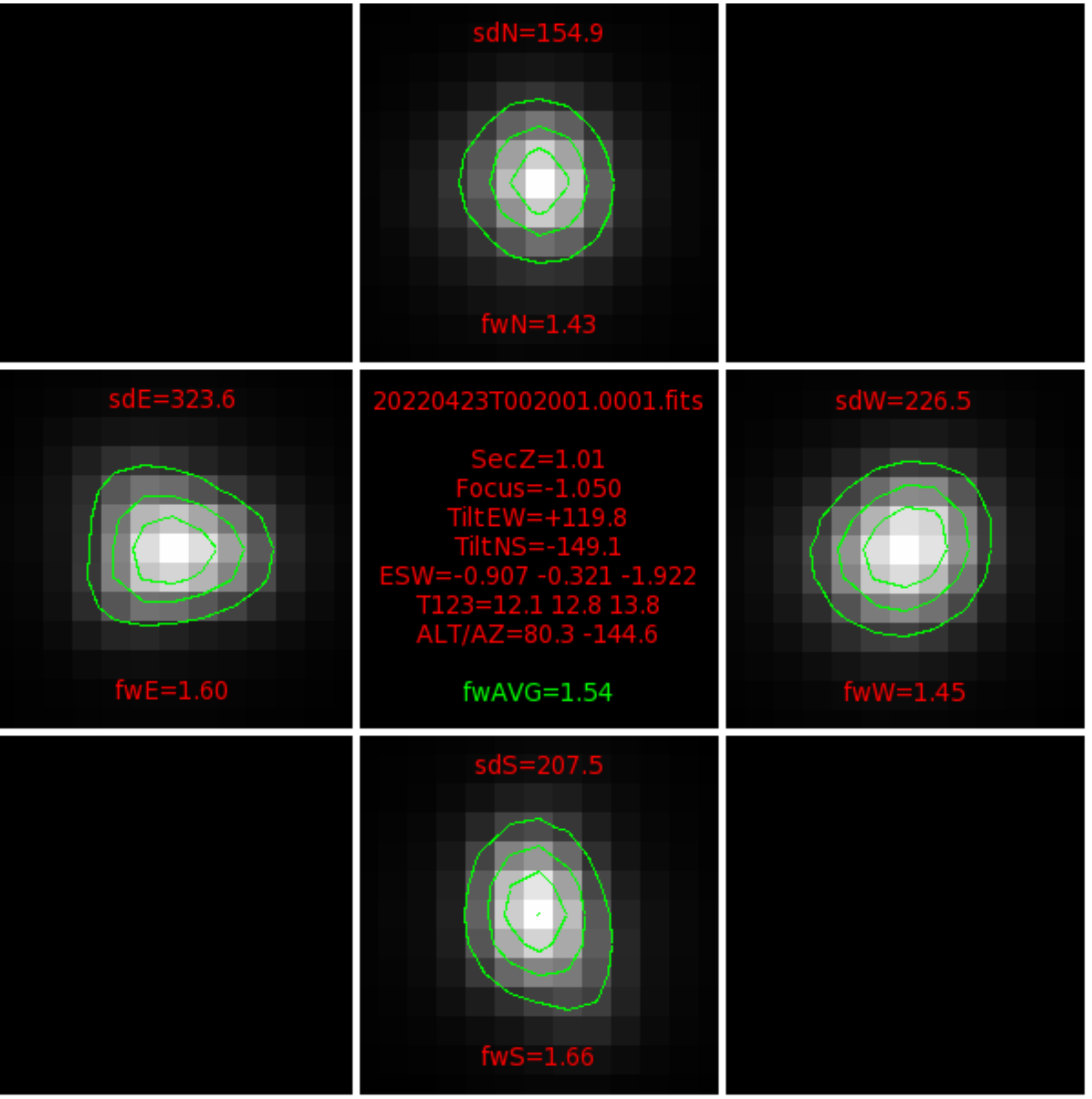
sdN=154.9
fwN=1.43
sdE=323.6
fwE=1.60
20220423T002001.0001.fits
SecZ=1.01
Focus=-1.050
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.907 -0.321 -1.922
T123=12.1 12.8 13.8
ALT/AZ=80.3 -144.6
fwAVG=1.54
sdW=226.5
fwW=1.45
sdS=207.5
fwS=1.66
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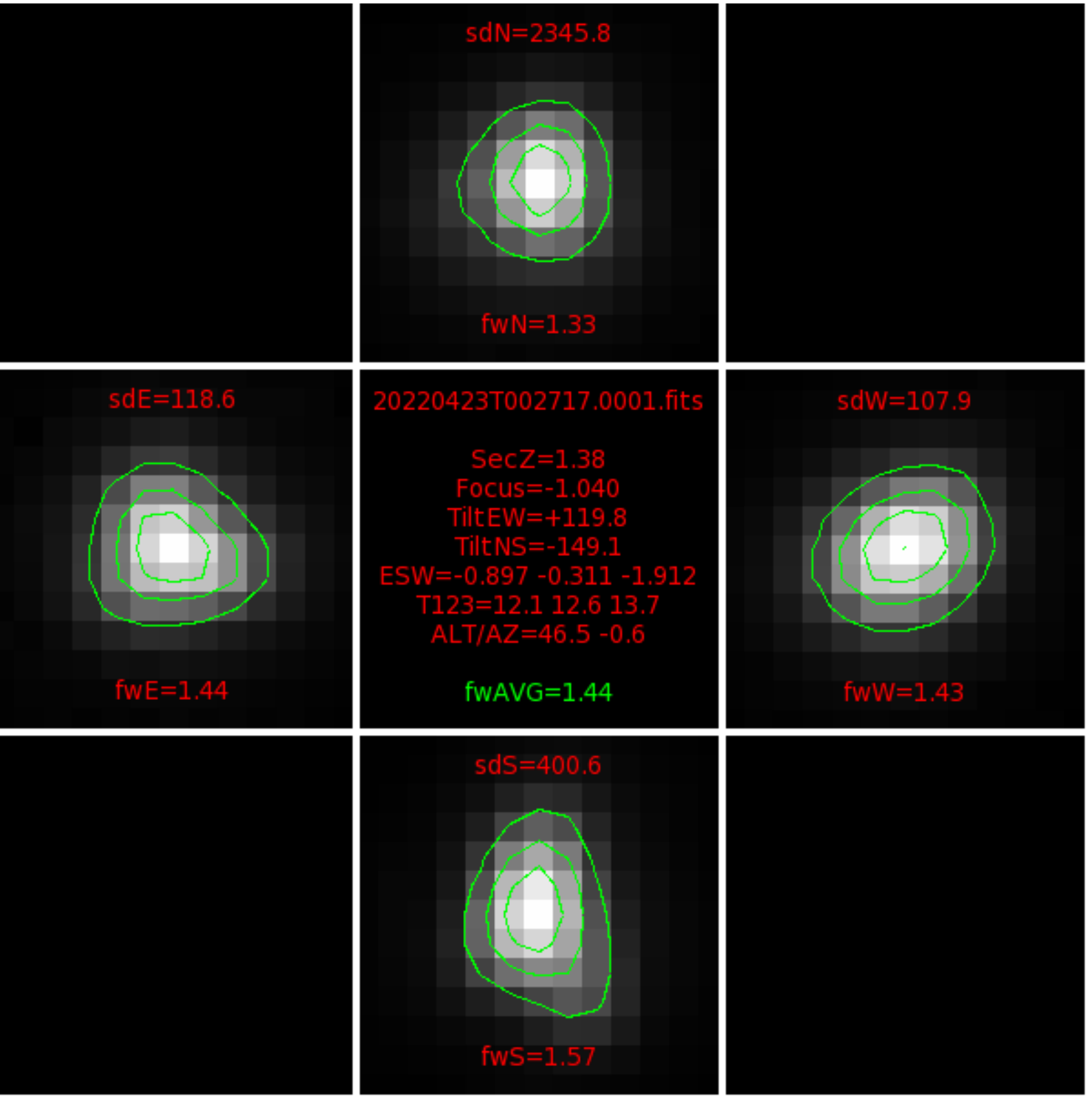
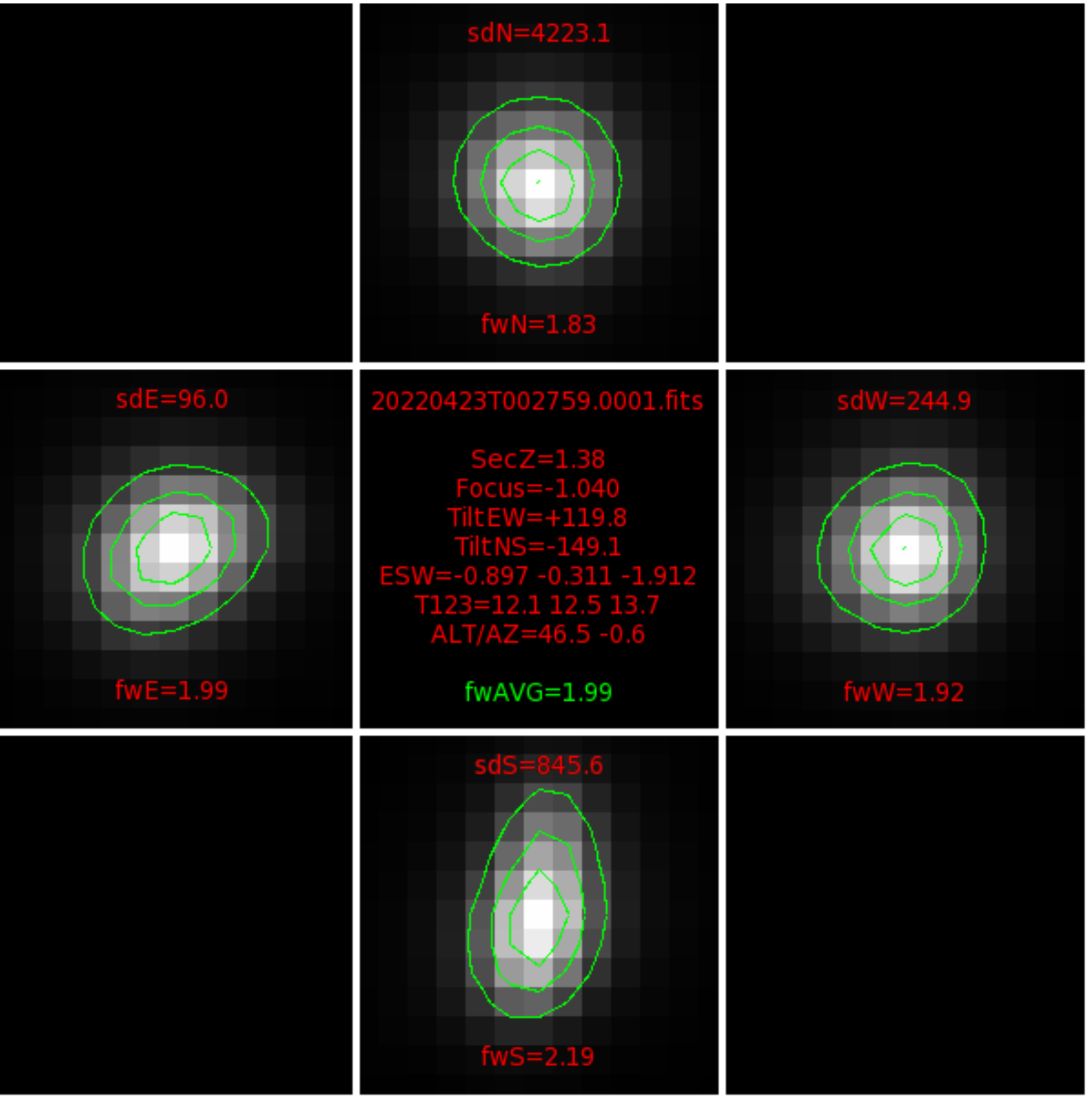
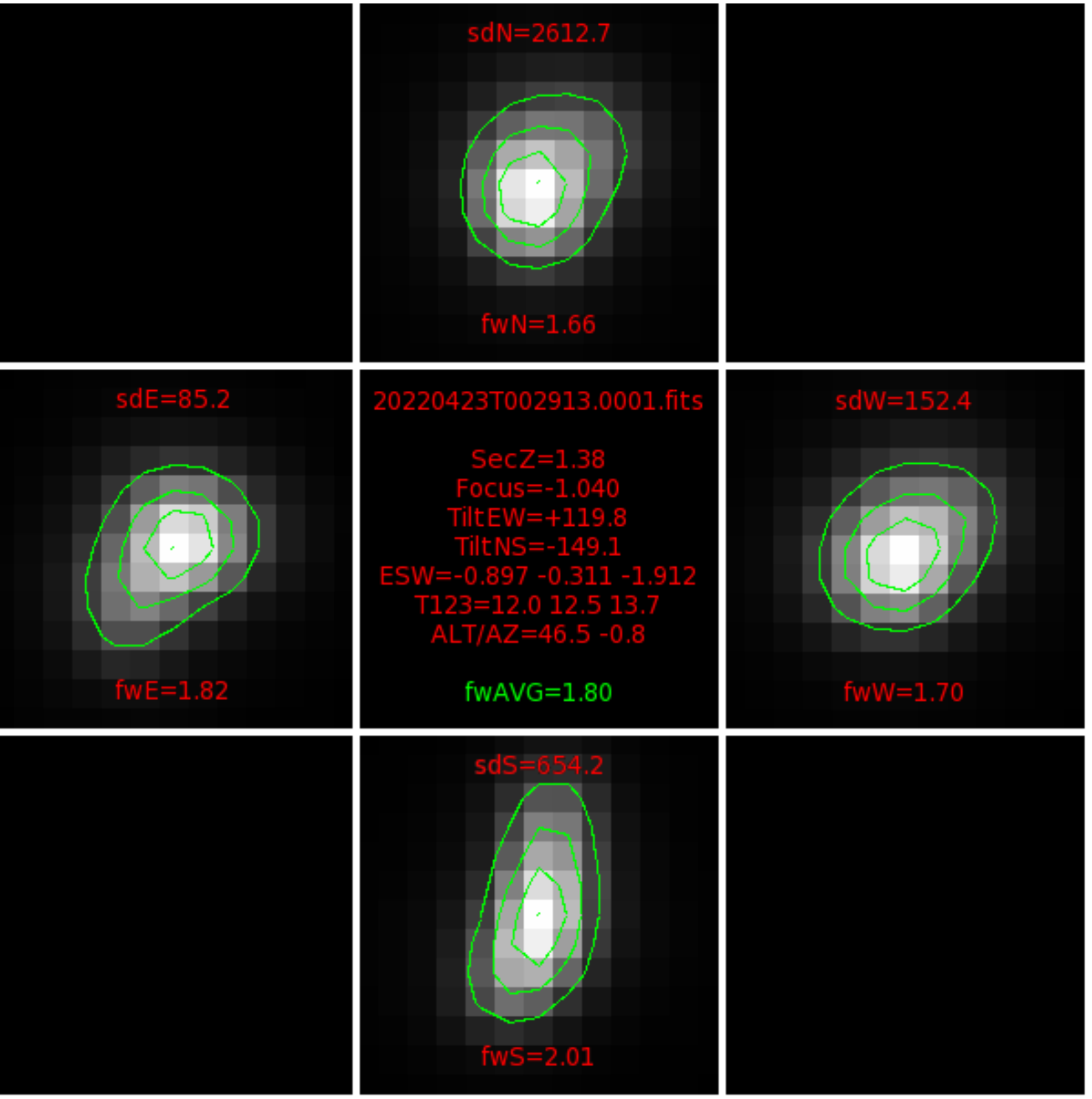
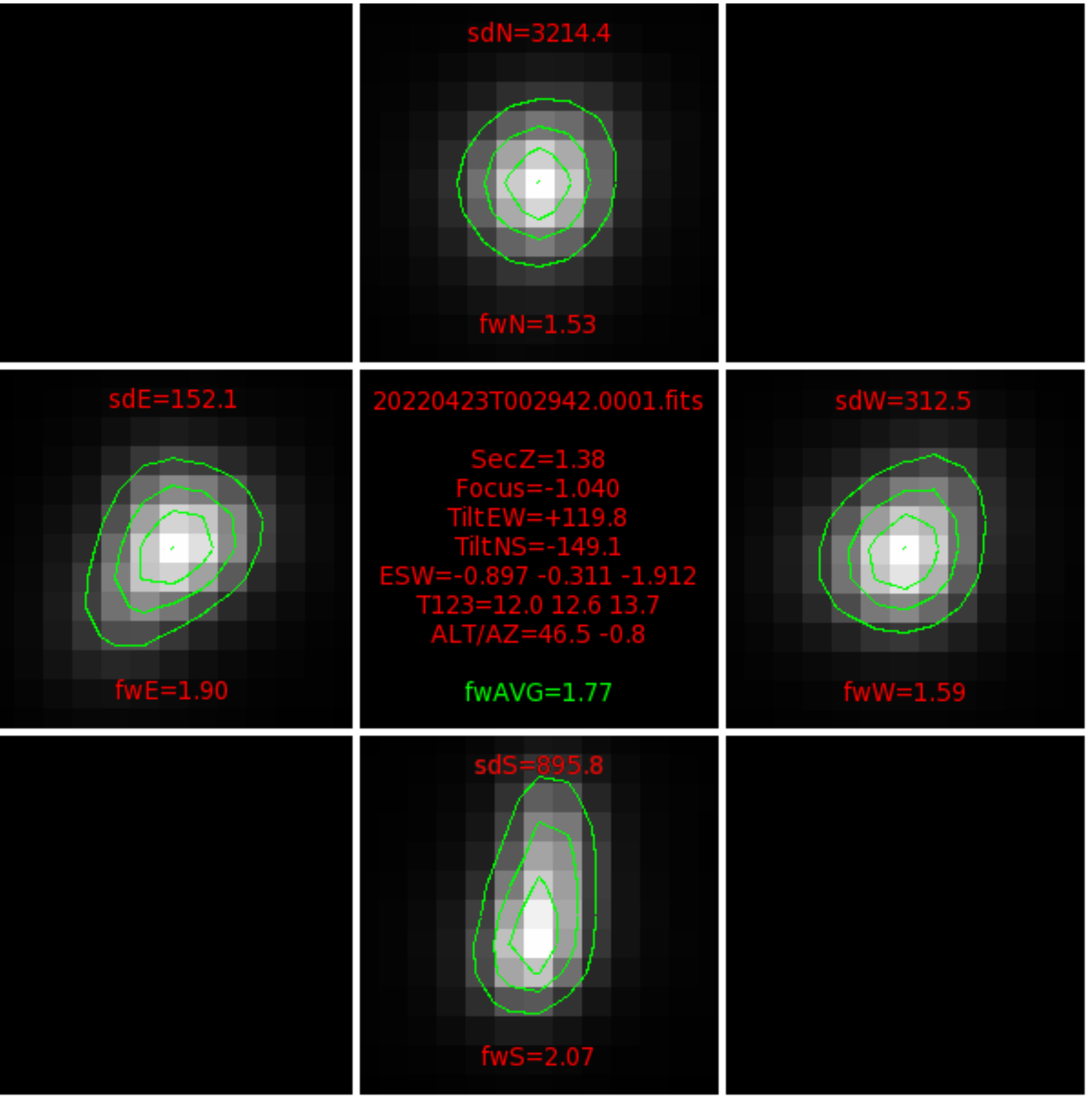
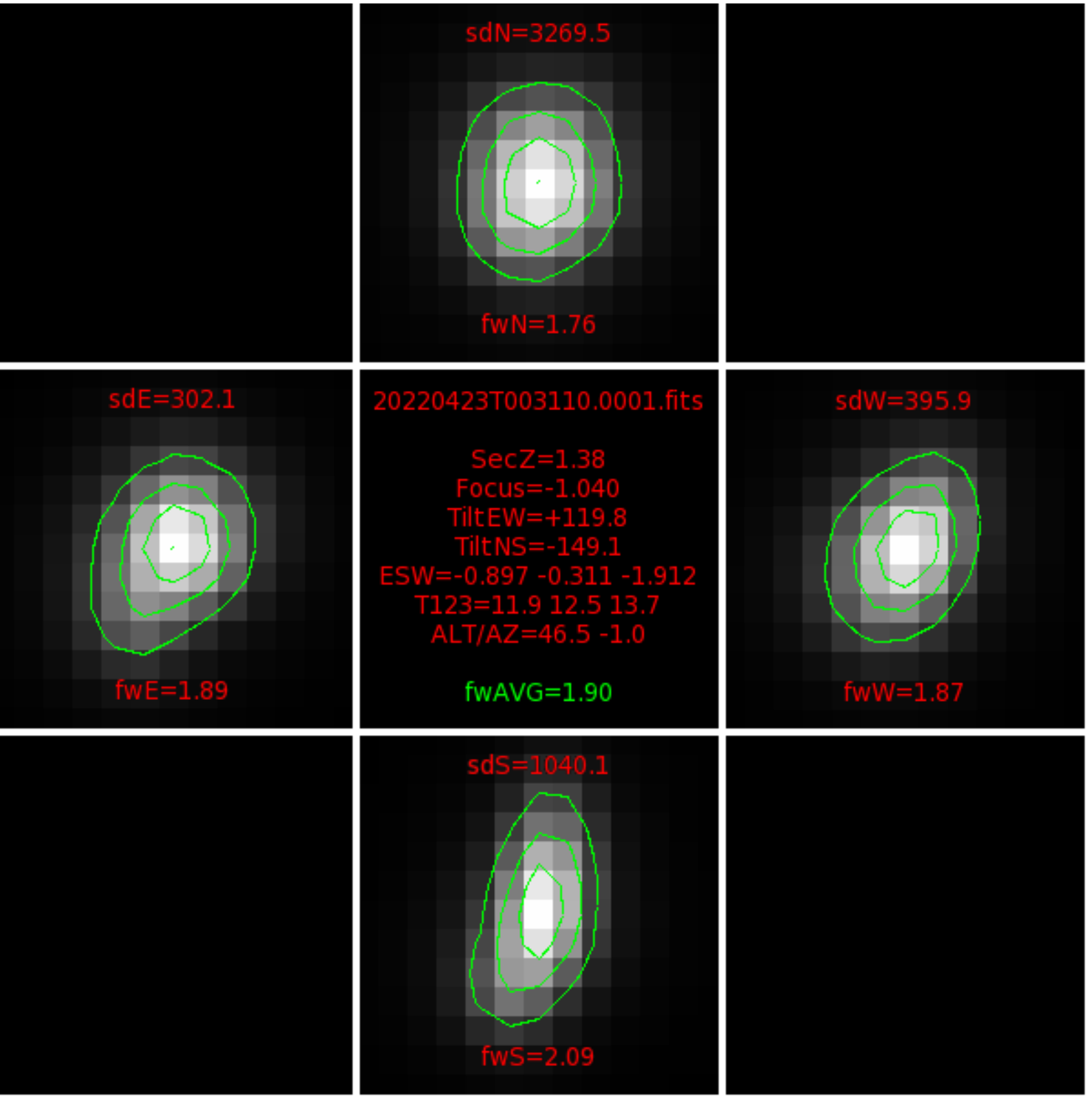

sdN=2345.8
fwN=1.33
sdE=118.6
fwE=1.44
20220423T002717.0001.fits
SecZ=1.38
Focus=-1.040
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.897 -0.311 -1.912
T123=12.1 12.6 13.7
ALT/AZ=46.5 -0.6
fwAVG=1.44
sdW=107.9
fwW=1.43
sdS=400.6
fwS=1.57
0 0 0 0 0 0 0 0 0


sdN=4223.1
fwN=1.83
sdE=96.0
fwE=1.99
20220423T002759.0001.fits
SecZ=1.38
Focus=-1.040
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.897 -0.311 -1.912
T123=12.1 12.5 13.7
ALT/AZ=46.5 -0.6
fwAVG=1.99
sdW=244.9
fwW=1.92
sdS=845.6
fwS=2.19
0 0 0 0 0 0 0 0 0


sdN=2612.7
fwN=1.66
sdE=85.2
fwE=1.82
20220423T002913.0001.fits
SecZ=1.38
Focus=-1.040
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.897 -0.311 -1.912
T123=12.0 12.5 13.7
ALT/AZ=46.5 -0.8
fwAVG=1.80
sdW=152.4
fwW=1.70
sdS=654.2
fwS=2.01
0 0 0 0 0 0 0 0 0


sdN=3214.4
fwN=1.53
sdE=152.1
fwE=1.90
20220423T002942.0001.fits
SecZ=1.38
Focus=-1.040
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.897 -0.311 -1.912
T123=12.0 12.6 13.7
ALT/AZ=46.5 -0.8
fwAVG=1.77
sdW=312.5
fwW=1.59
sdS=895.8
fwS=2.07
0 0 0 0 0 0 0 0 0


sdN=3269.5
fwN=1.76
sdE=302.1
fwE=1.89
20220423T003110.0001.fits
SecZ=1.38
Focus=-1.040
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.897 -0.311 -1.912
T123=11.9 12.5 13.7
ALT/AZ=46.5 -1.0
fwAVG=1.90
sdW=395.9
fwW=1.87
sdS=1040.1
fwS=2.09
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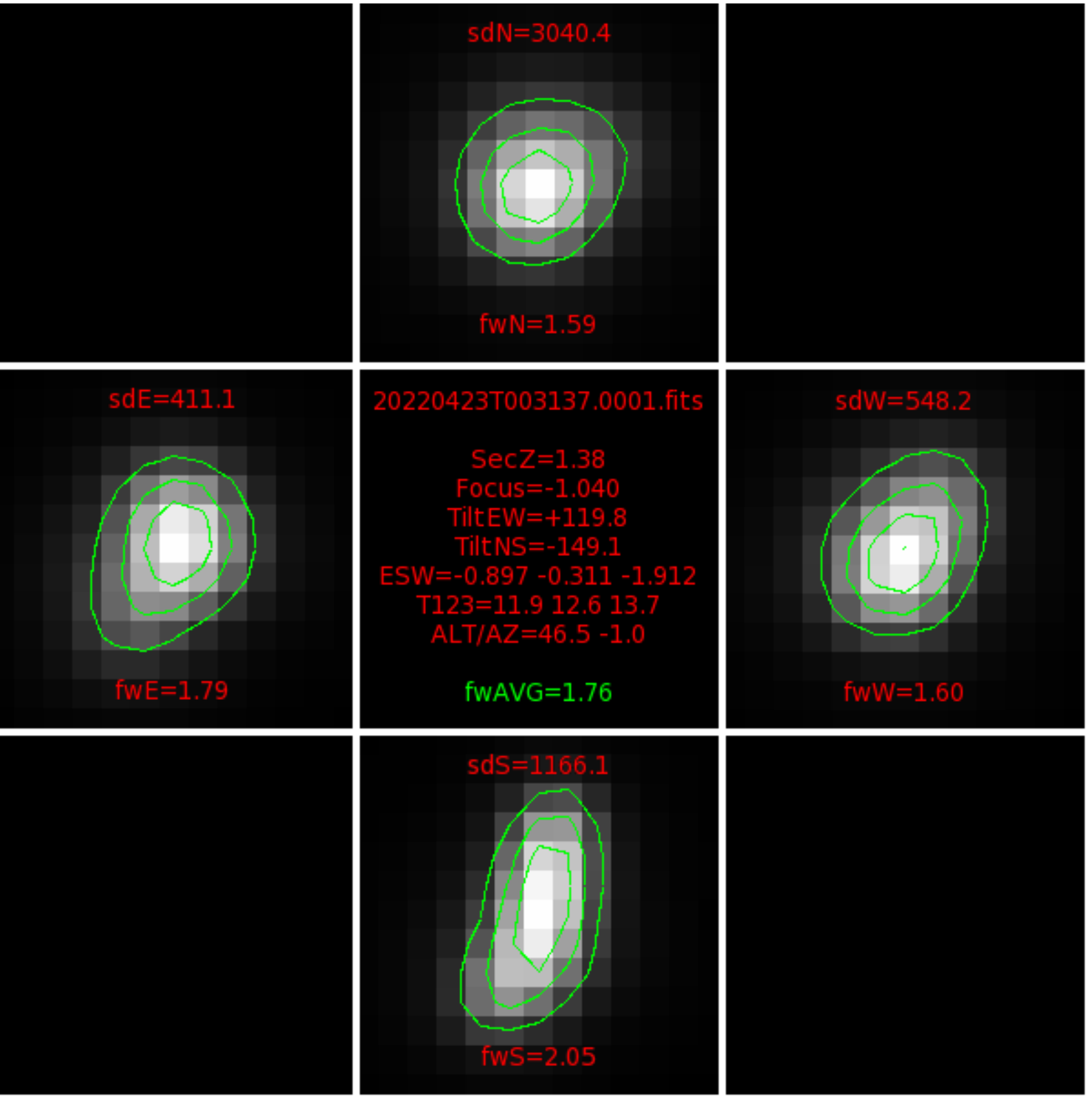
sdN=3040.4
fwN=1.59
sdE=411.1
fwE=1.79
20220423T003137.0001.fits
SecZ=1.38
Focus=-1.040
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.897 -0.311 -1.912
T123=11.9 12.6 13.7
ALT/AZ=46.5 -1.0
fwAVG=1.76
sdW=548.2
fwW=1.60
sdS=1166.1
fwS=2.05
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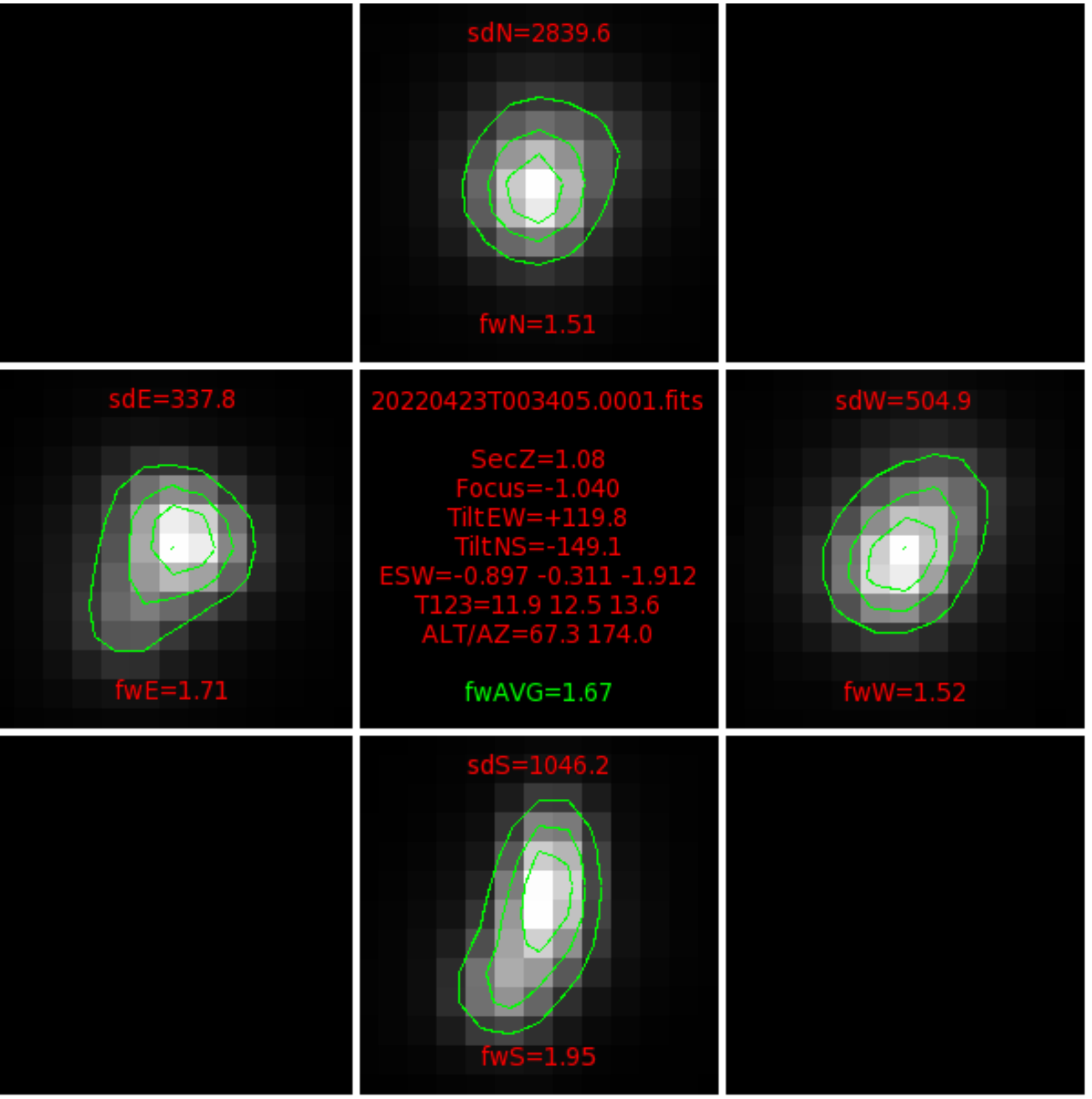
sdN=2839.6
fwN=1.51
sdE=337.8
fwE=1.71
20220423T003405.0001.fits
SecZ=1.08
Focus=-1.040
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.897 -0.311 -1.912
T123=11.9 12.5 13.6
ALT/AZ=67.3 174.0
fwAVG=1.67
sdW=504.9
fwW=1.52
sdS=1046.2
fwS=1.95
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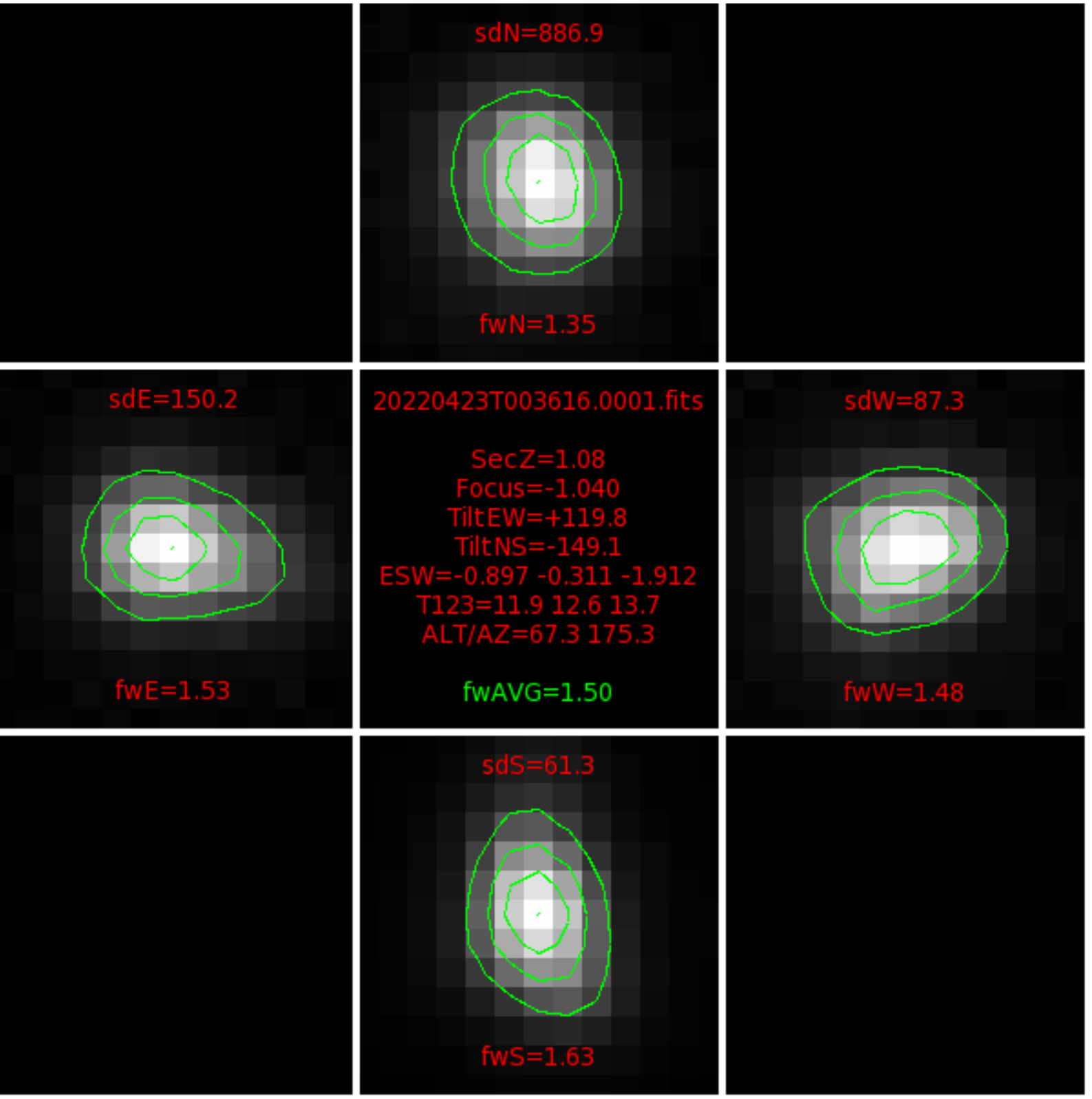
sdN=886.9
fwN=1.35
sdE=150.2
fwE=1.53
20220423T003616.0001.fits
SecZ=1.08
Focus=-1.040
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.897 -0.311 -1.912
T123=11.9 12.6 13.7
ALT/AZ=67.3 175.3
fwAVG=1.50
sdW=87.3
fwW=1.48
sdS=61.3
fwS=1.63
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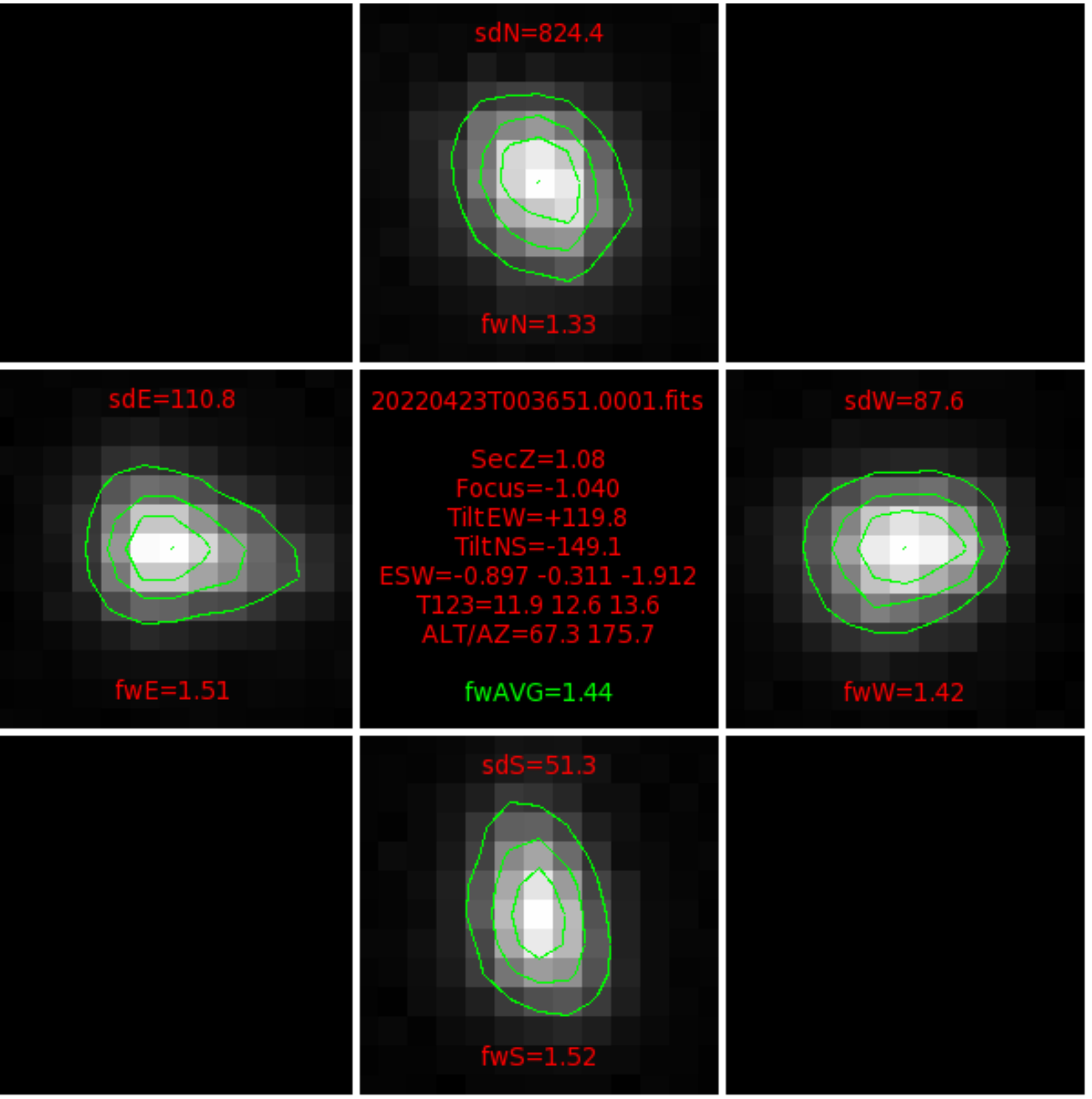
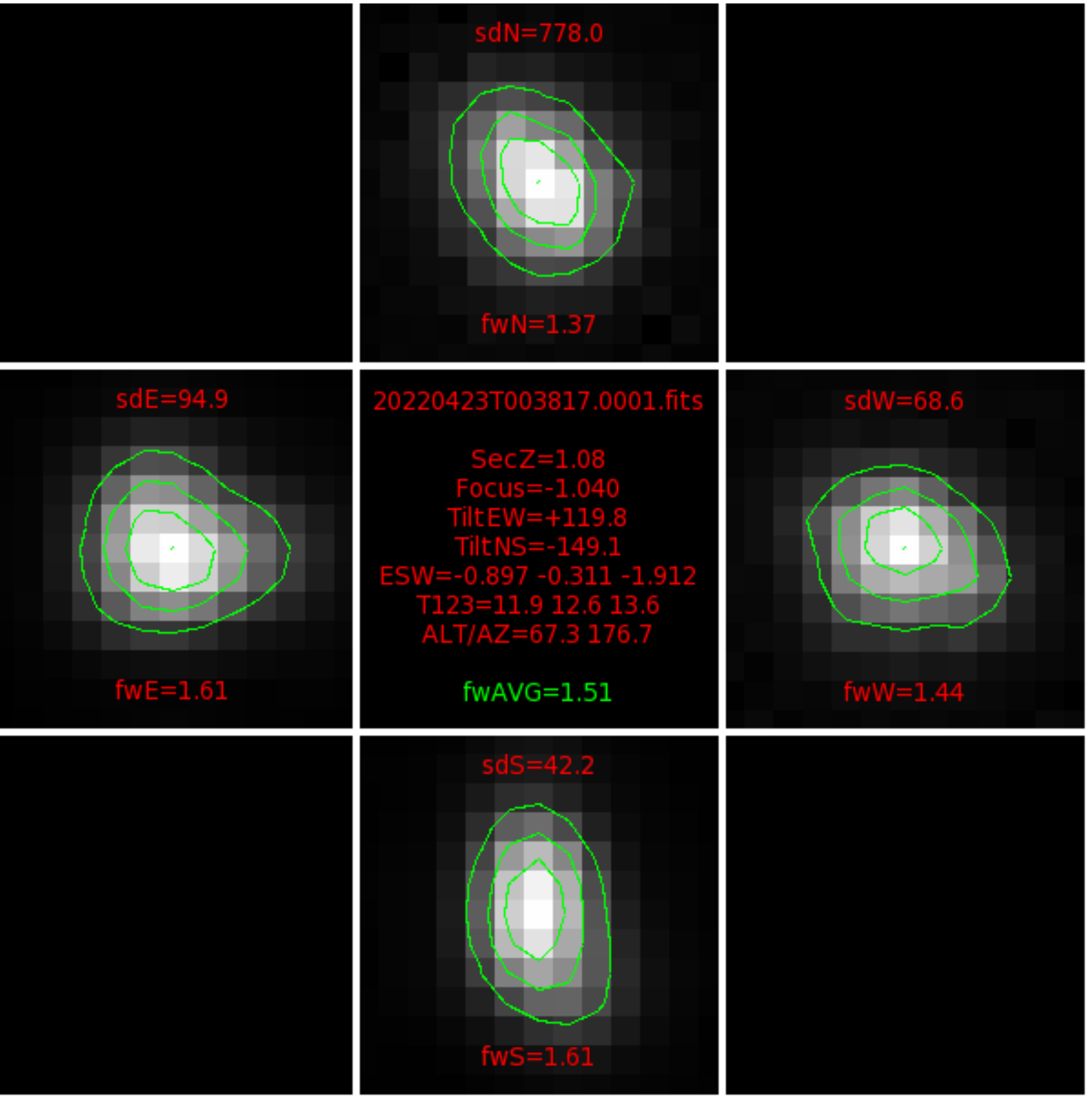

sdN=824.4
fwN=1.33
sdE=110.8
fwE=1.51
20220423T003651.0001.fits
SecZ=1.08
Focus=-1.040
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.897 -0.311 -1.912
T123=11.9 12.6 13.6
ALT/AZ=67.3 175.7
fwAVG=1.44
sdW=87.6
fwW=1.42
sdS=51.3
fwS=1.52
0 0 0 0 0 0 0 0 0


sdN=778.0
fwN=1.37
sdE=94.9
fwE=1.61
20220423T003817.0001.fits
SecZ=1.08
Focus=-1.040
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.897 -0.311 -1.912
T123=11.9 12.6 13.6
ALT/AZ=67.3 176.7
fwAVG=1.51
sdW=68.6
fwW=1.44
sdS=42.2
fwS=1.61
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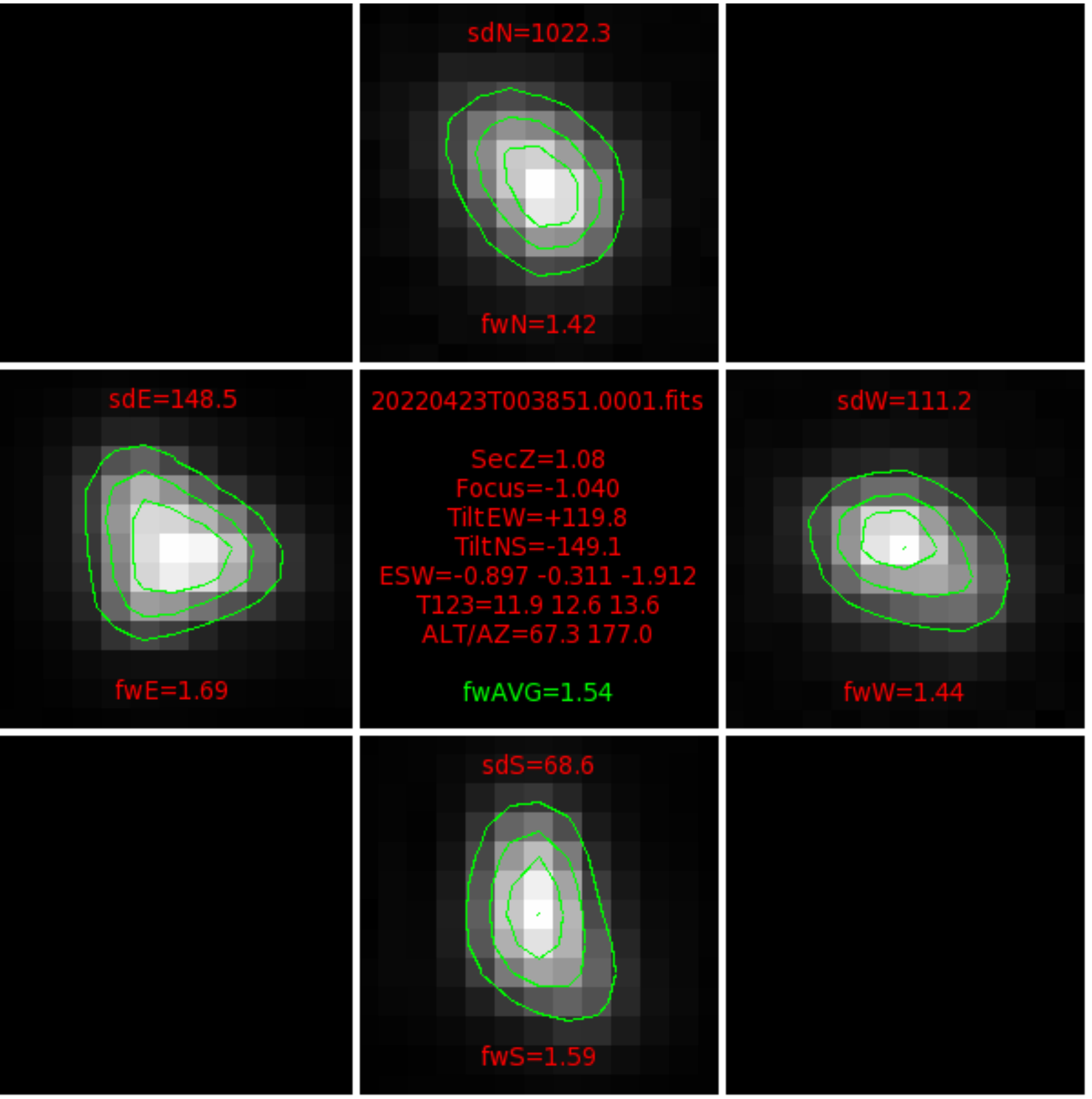
sdN=1022.3
fwN=1.42
sdE=148.5
fwE=1.69
20220423T003851.0001.fits
SecZ=1.08
Focus=-1.040
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.897 -0.311 -1.912
T123=11.9 12.6 13.6
ALT/AZ=67.3 177.0
fwAVG=1.54
sdW=111.2
fwW=1.44
sdS=68.6
fwS=1.59
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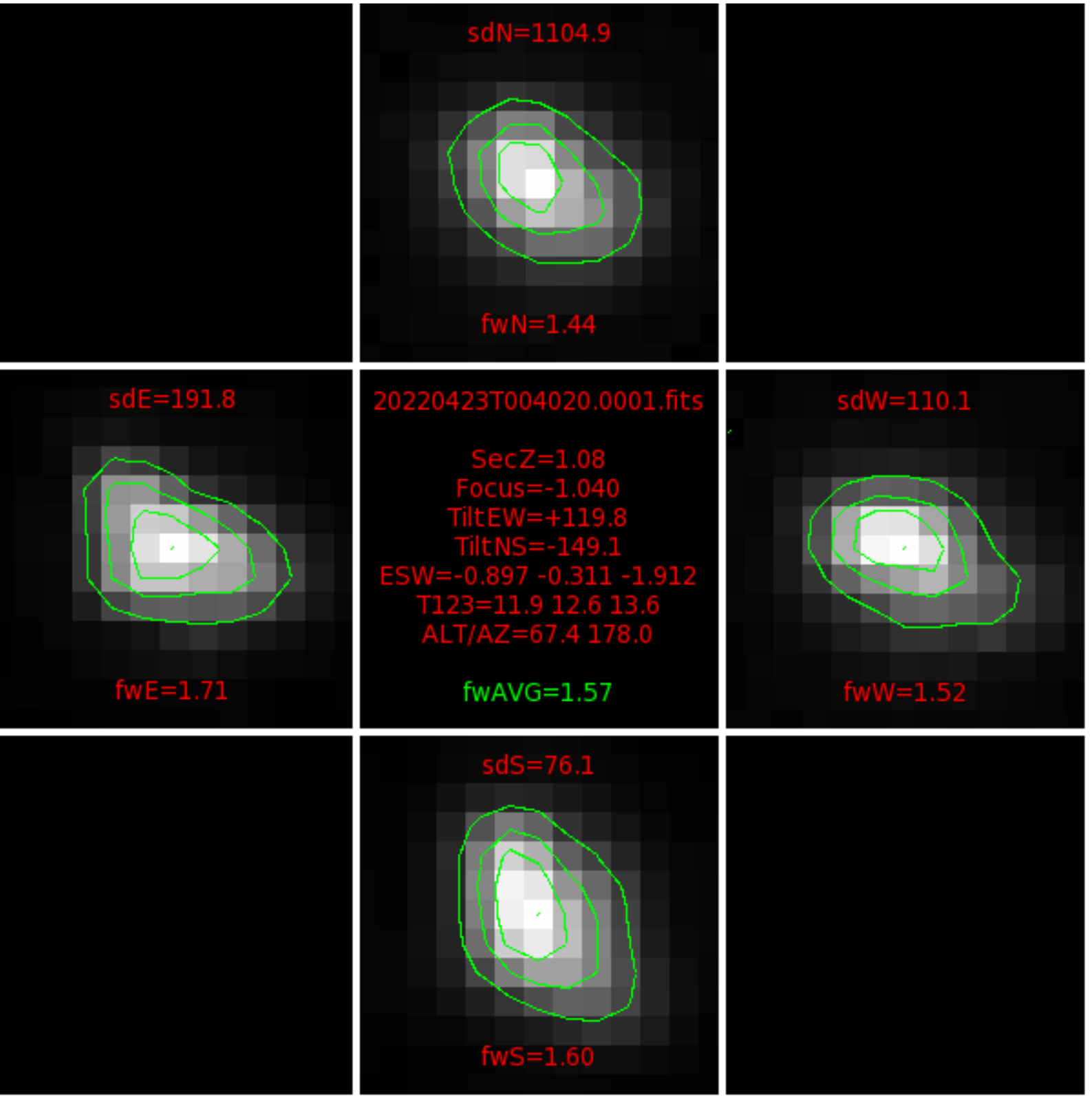
sdN=1104.9
fwN=1.44
sdE=191.8
fwE=1.71
20220423T004020.0001.fits
SecZ=1.08
Focus=-1.040
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.897 -0.311 -1.912
T123=11.9 12.6 13.6
ALT/AZ=67.4 178.0
fwAVG=1.57
sdW=110.1
fwW=1.52
sdS=76.1
fwS=1.60
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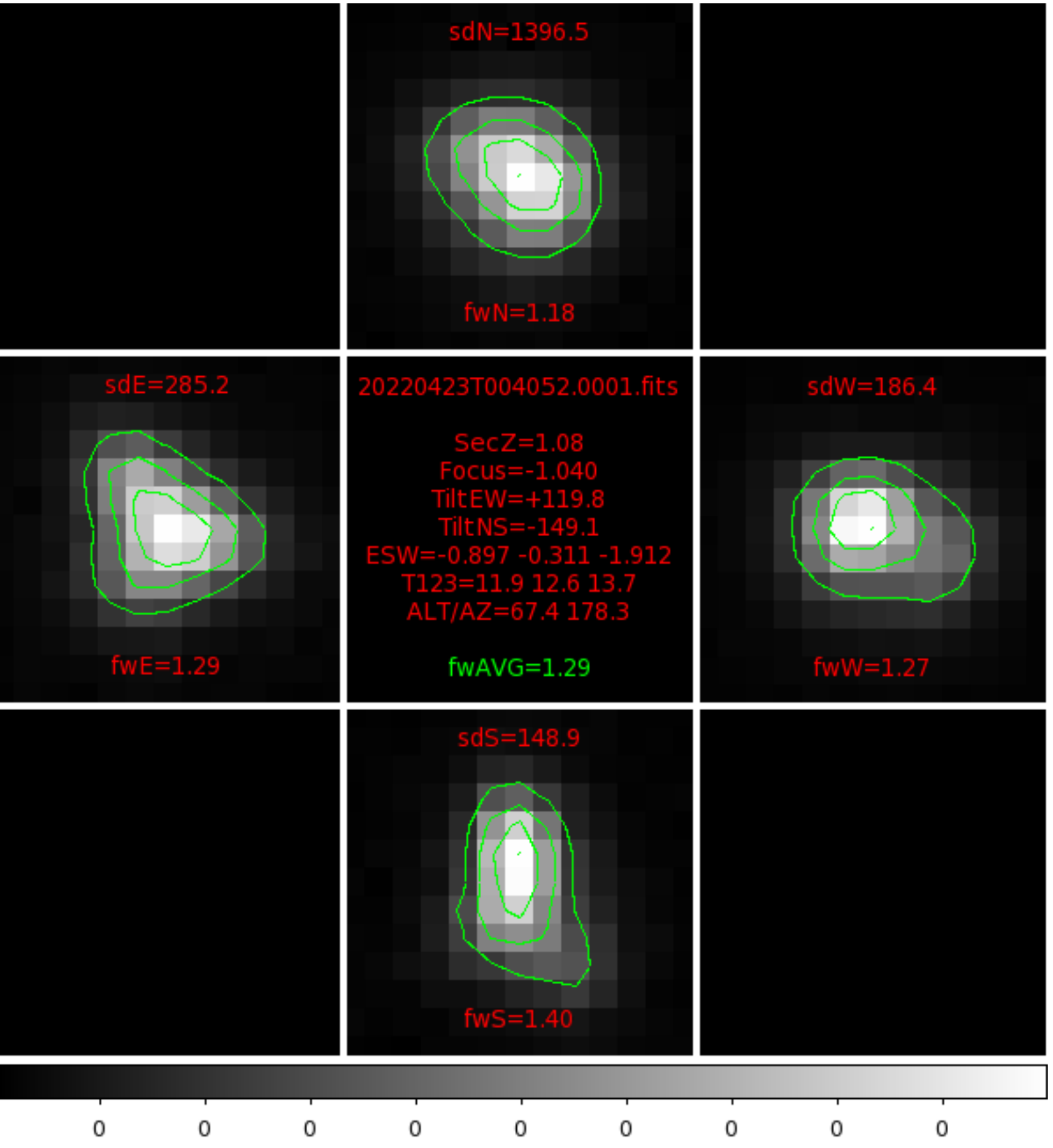
sdN=1396.5
fwN=1.18
sdE=285.2
fwE=1.29
20220423T004052.0001.fits
SecZ=1.08
Focus=-1.040
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.897 -0.311 -1.912
T123=11.9 12.6 13.7
ALT/AZ=67.4 178.3
fwAVG=1.29
sdW=186.4
fwW=1.27
sdS=148.9
fwS=1.40
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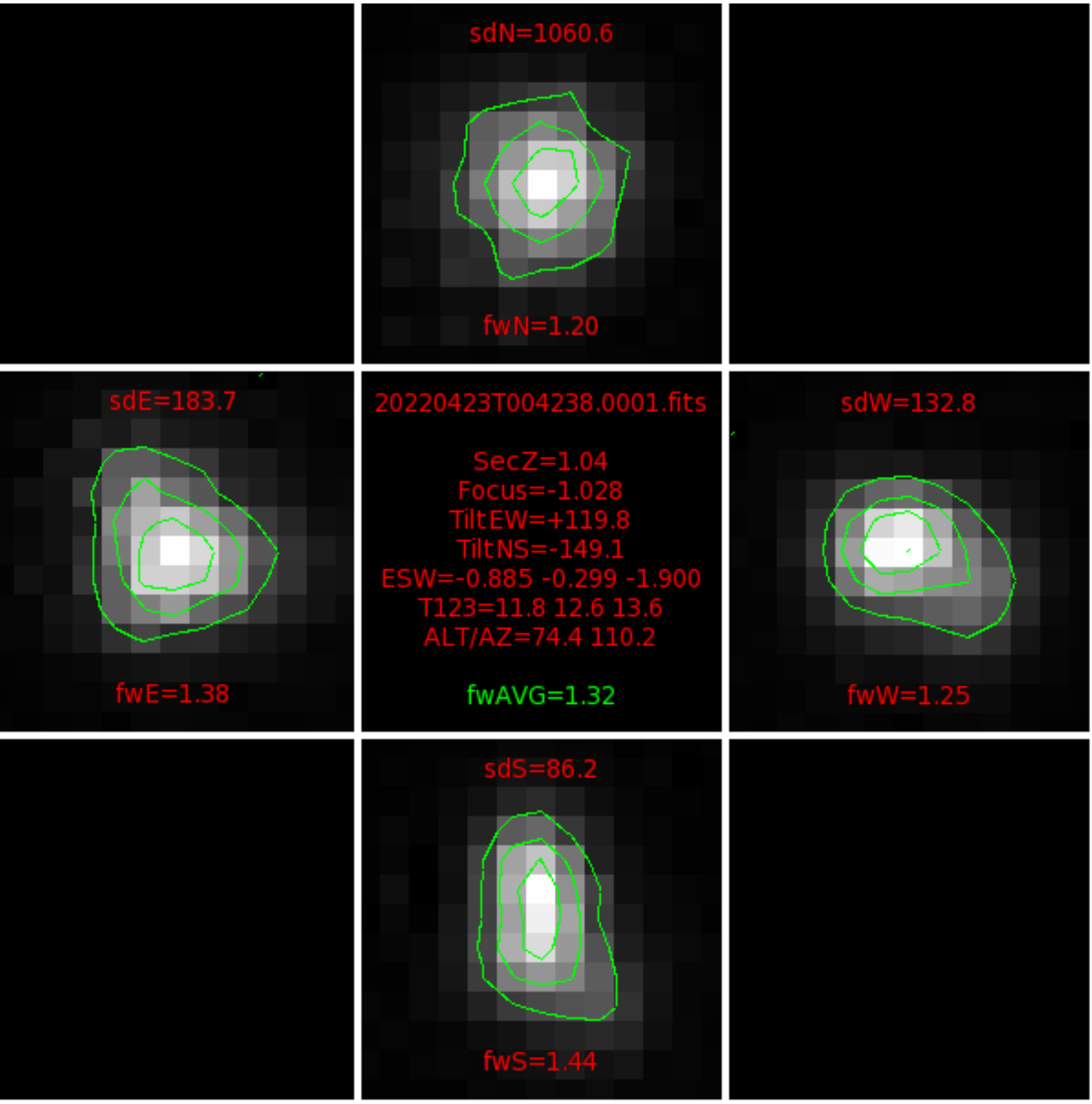
sdN=1060.6
fwN=1.20
sdE=183.7
fwE=1.38
20220423T004238.0001.fits
SecZ=1.04
Focus=-1.028
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.885 -0.299 -1.900
T123=11.8 12.6 13.6
ALT/AZ=74.4 110.2
fwAVG=1.32
sdW=132.8
fwW=1.25
sdS=86.2
fwS=1.44
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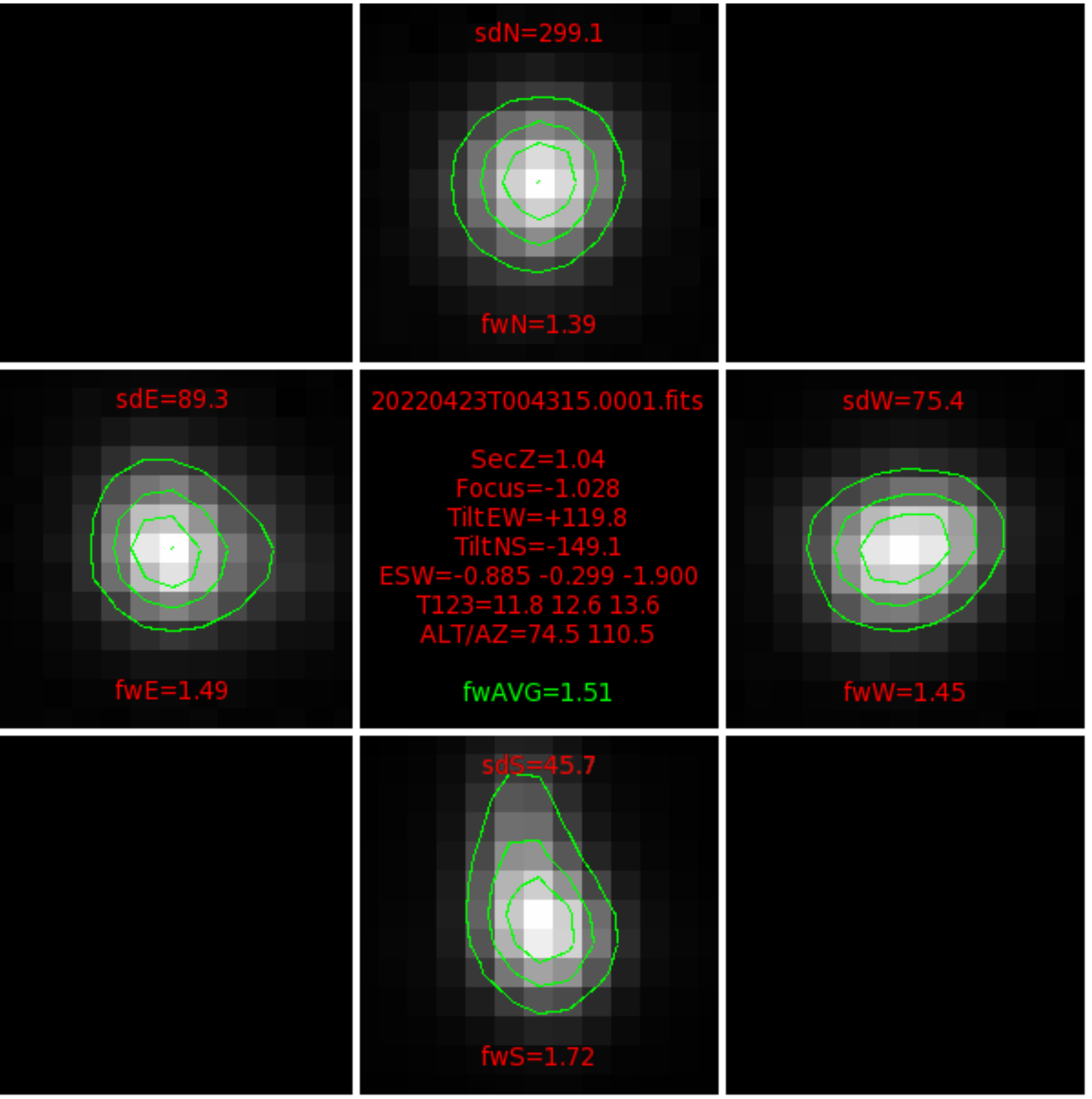
sdN=299.1
fwN=1.39
sdE=89.3
fwE=1.49
20220423T004315.0001.fits
SecZ=1.04
Focus=-1.028
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.885 -0.299 -1.900
T123=11.8 12.6 13.6
ALT/AZ=74.5 110.5
fwAVG=1.51
sdW=75.4
fwW=1.45
sdS=45.7
fwS=1.72
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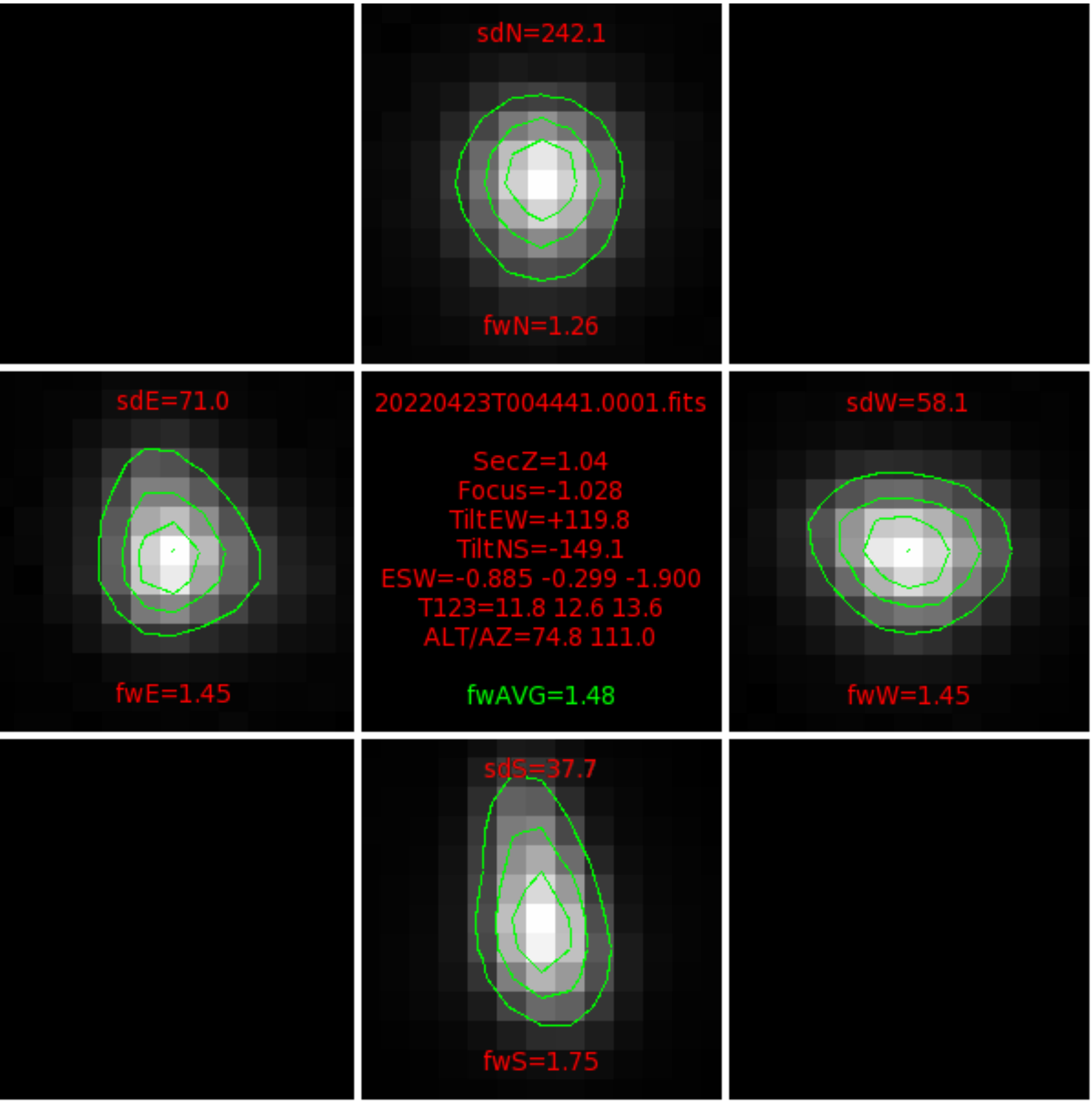
sdN=242.1
fwN=1.26
sdE=71.0
fwE=1.45
20220423T004441.0001.fits
SecZ=1.04
Focus=-1.028
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.885 -0.299 -1.900
T123=11.8 12.6 13.6
ALT/AZ=74.8 111.0
fwAVG=1.48
sdW=58.1
fwW=1.45
sdS=37.7
fwS=1.75
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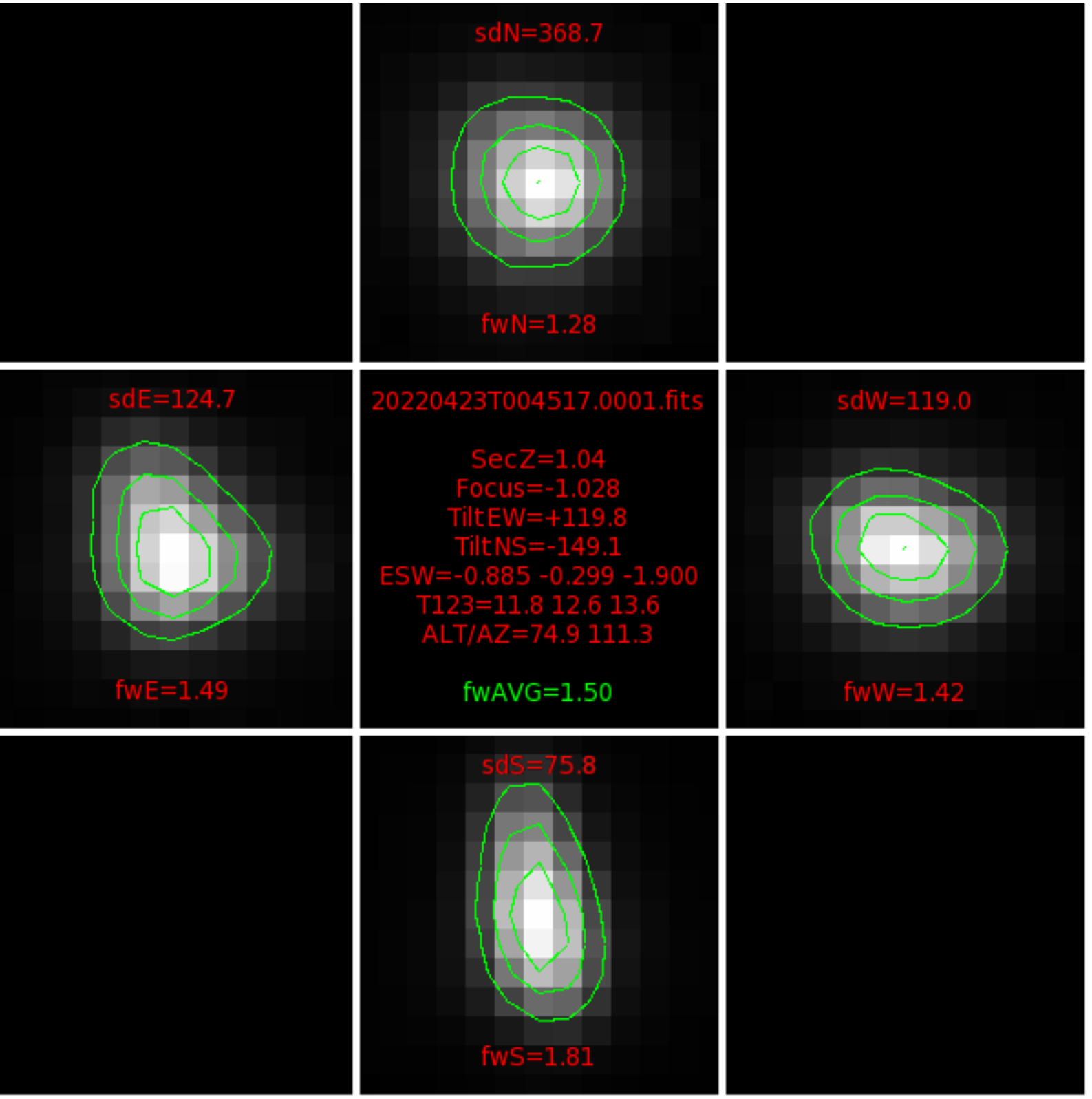
sdN=368.7
fwN=1.28
sdE=124.7
fwE=1.49
20220423T004517.0001.fits
SecZ=1.04
Focus=-1.028
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.885 -0.299 -1.900
T123=11.8 12.6 13.6
ALT/AZ=74.9 111.3
fwAVG=1.50
sdW=119.0
fwW=1.42
sdS=75.8
fwS=1.81
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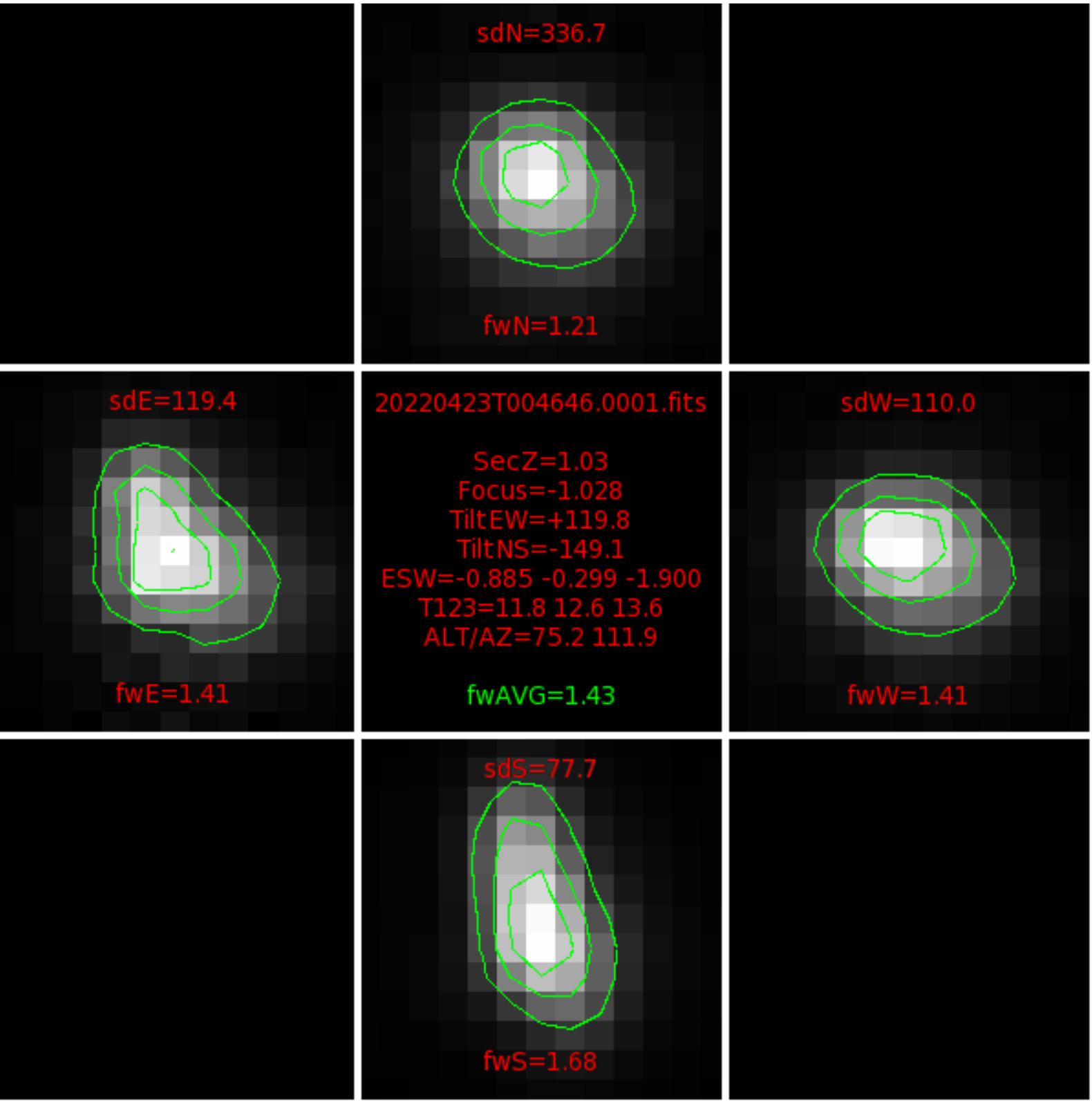
sdN=336.7
fwN=1.21
sdE=119.4
fwE=1.41
20220423T004646.0001.fits
SecZ=1.03
Focus=-1.028
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.885 -0.299 -1.900
T123=11.8 12.6 13.6
ALT/AZ=75.2 111.9
fwAVG=1.43
sdW=110.0
fwW=1.41
sdS=77.7
fwS=1.68
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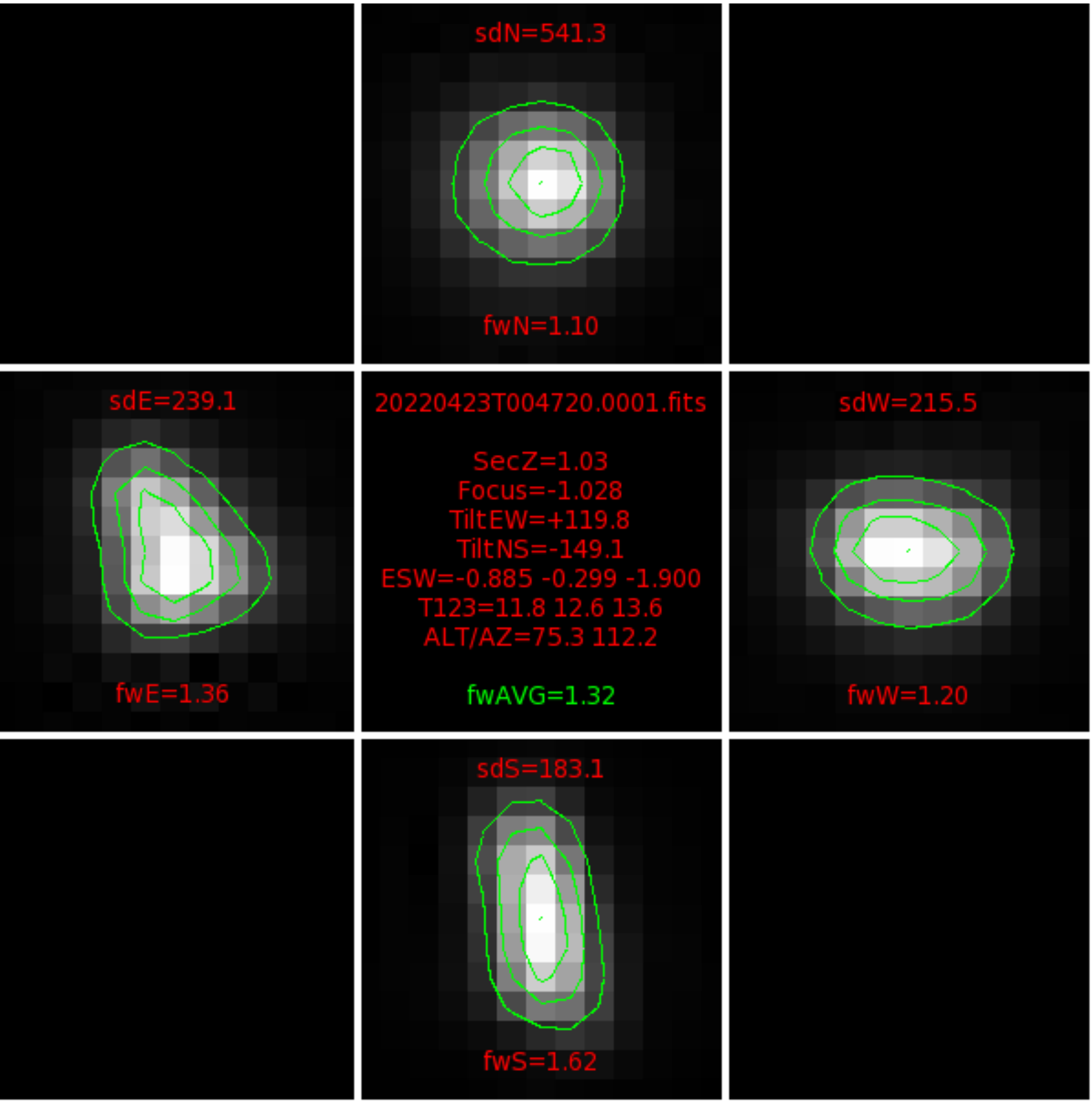
sdN=541.3
fwN=1.10
sdE=239.1
fwE=1.36
20220423T004720.0001.fits
SecZ=1.03
Focus=-1.028
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.885 -0.299 -1.900
T123=11.8 12.6 13.6
ALT/AZ=75.3 112.2
fwAVG=1.32
sdW=215.5
fwW=1.20
sdS=183.1
fwS=1.62
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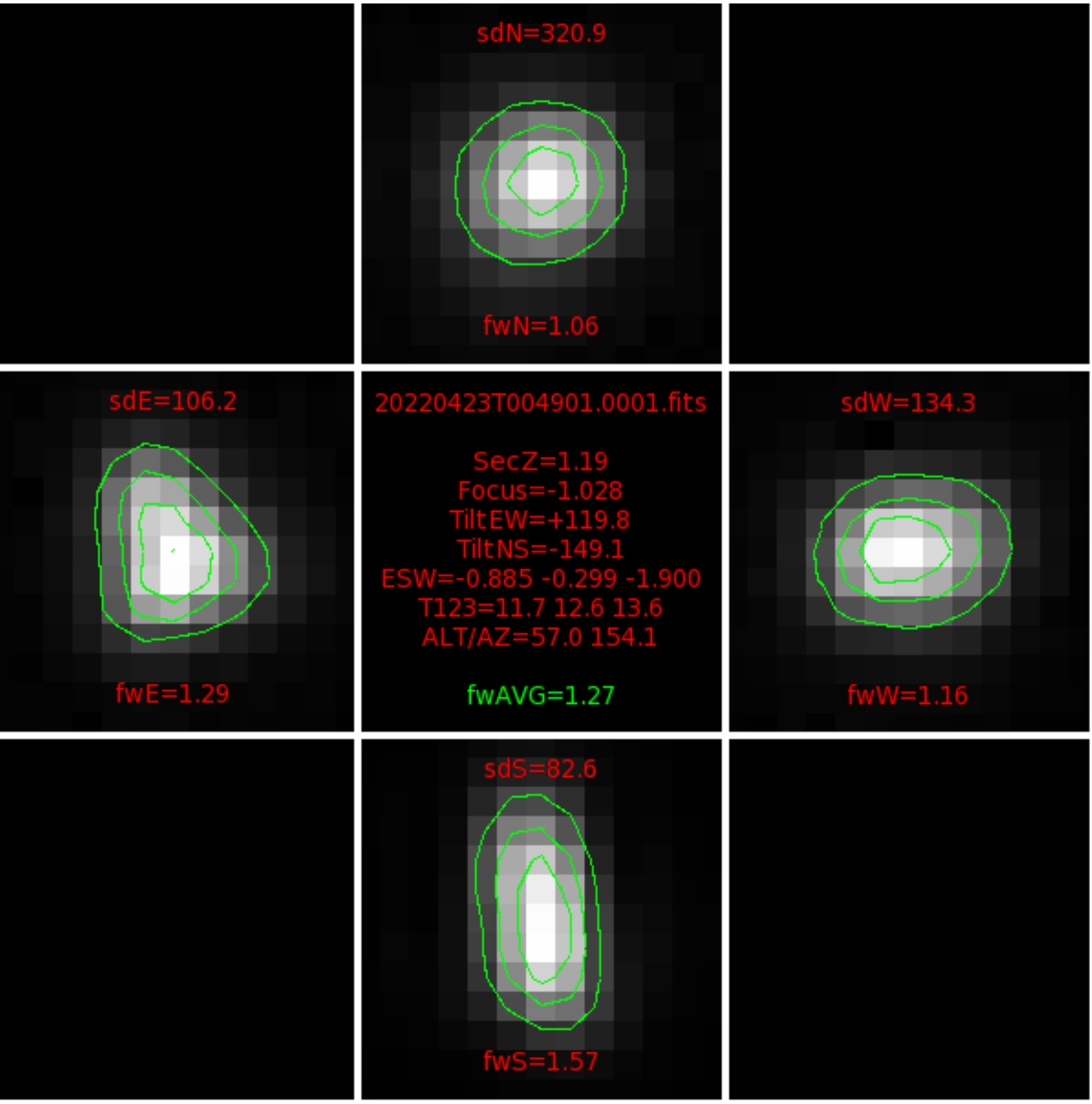
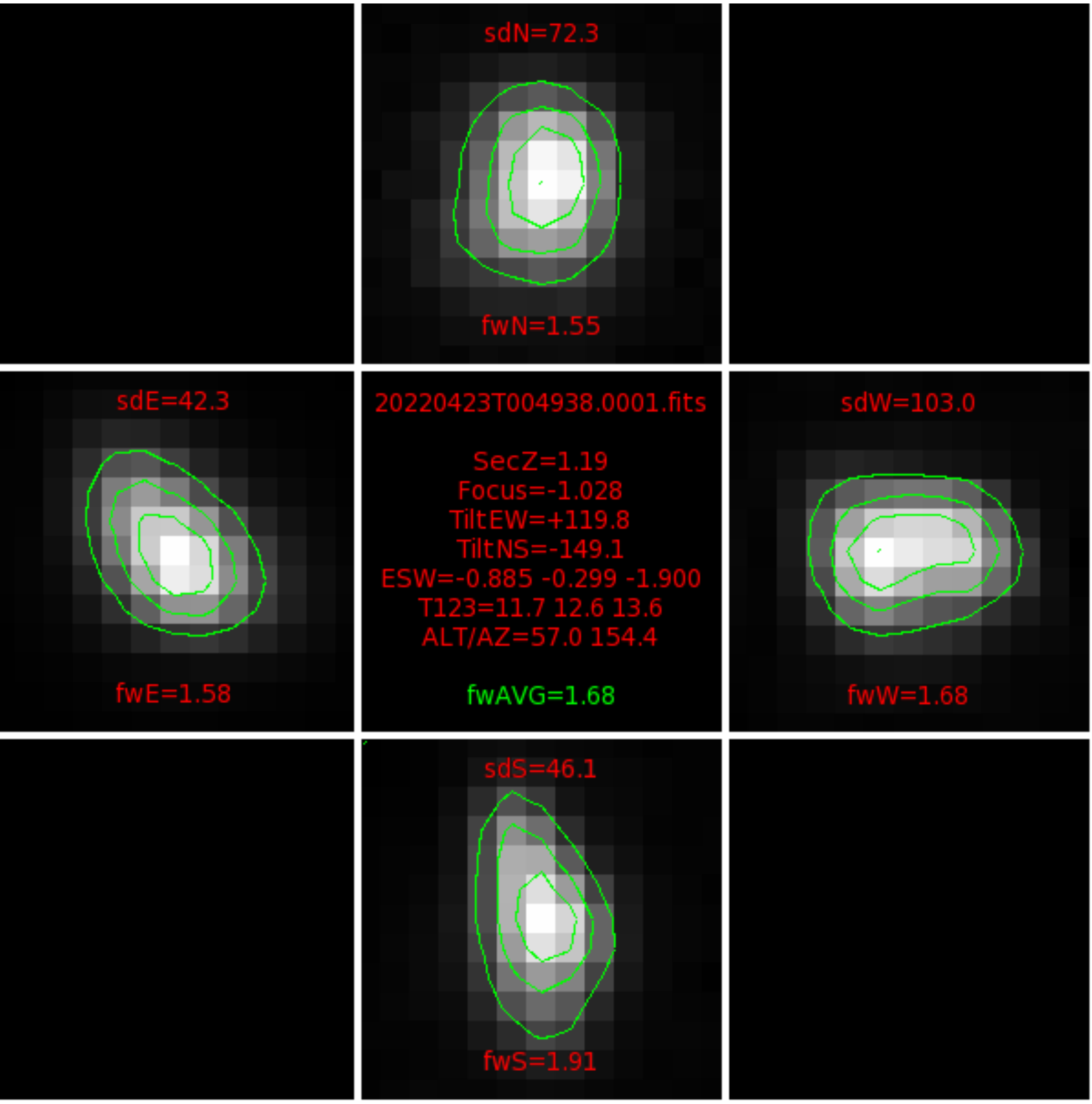

sdN=320.9
fwN=1.06
sdE=106.2
fwE=1.29
20220423T004901.0001.fits
SecZ=1.19
Focus=-1.028
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.885 -0.299 -1.900
T123=11.7 12.6 13.6
ALT/AZ=57.0 154.1
fwAVG=1.27
sdW=134.3
fwW=1.16
sdS=82.6
fwS=1.57
0 0 0 0 0 0 0 0 0


sdN=72.3
fwN=1.55
sdE=42.3
fwE=1.58
20220423T004938.0001.fits
SecZ=1.19
Focus=-1.028
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.885 -0.299 -1.900
T123=11.7 12.6 13.6
ALT/AZ=57.0 154.4
fwAVG=1.68
sdW=103.0
fwW=1.68
sdS=46.1
fwS=1.91
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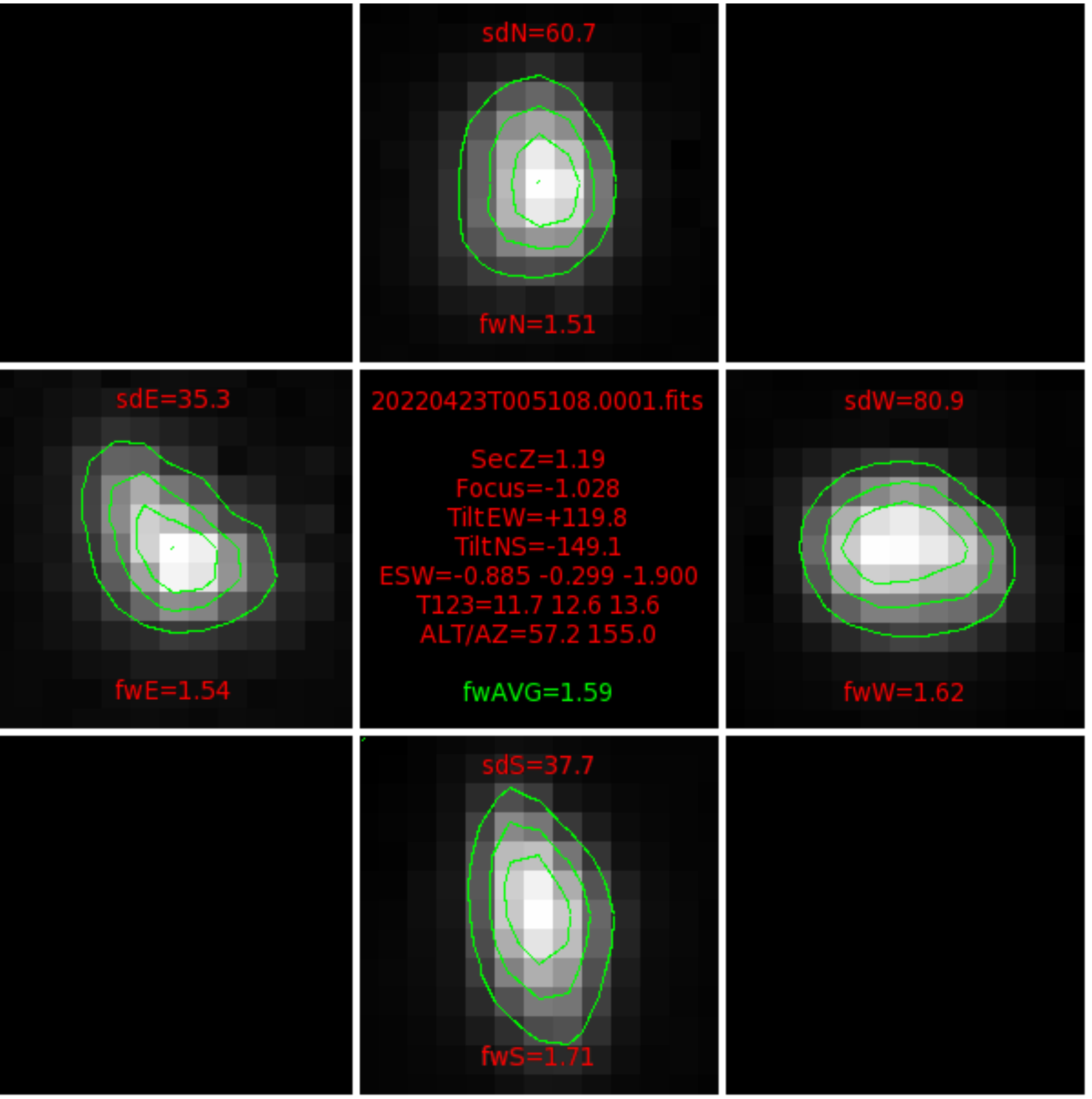
sdN=60.7
fwN=1.51
sdE=35.3
fwE=1.54
20220423T005108.0001.fits
SecZ=1.19
Focus=-1.028
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.885 -0.299 -1.900
T123=11.7 12.6 13.6
ALT/AZ=57.2 155.0
fwAVG=1.59
sdW=80.9
fwW=1.62
sdS=37.7
fwS=1.71
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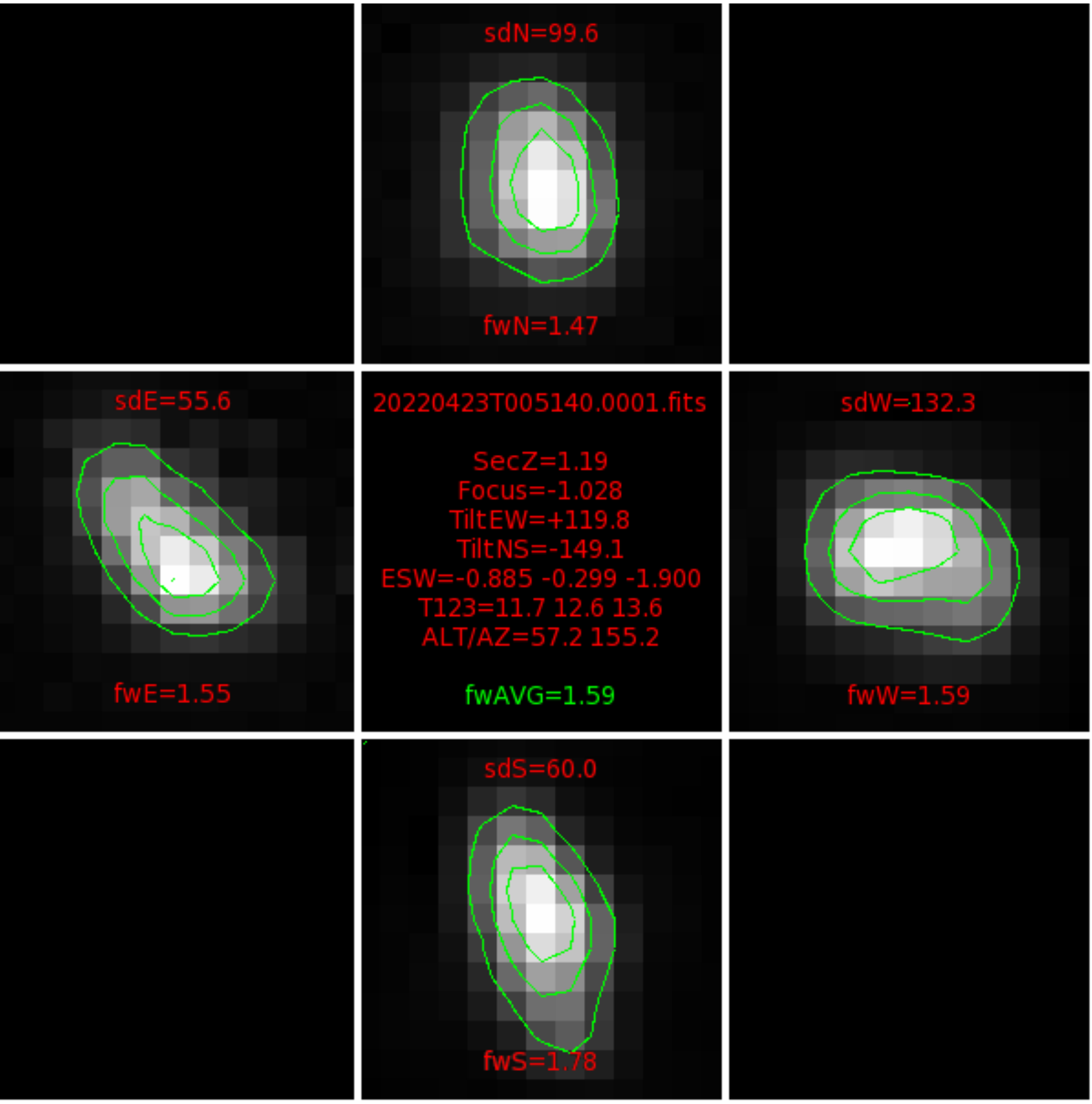
sdN=99.6
fwN=1.47
sdE=55.6
fwE=1.55
20220423T005140.0001.fits
SecZ=1.19
Focus=-1.028
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.885 -0.299 -1.900
T123=11.7 12.6 13.6
ALT/AZ=57.2 155.2
fwAVG=1.59
sdW=132.3
fwW=1.59
sdS=60.0
fwS=1.78
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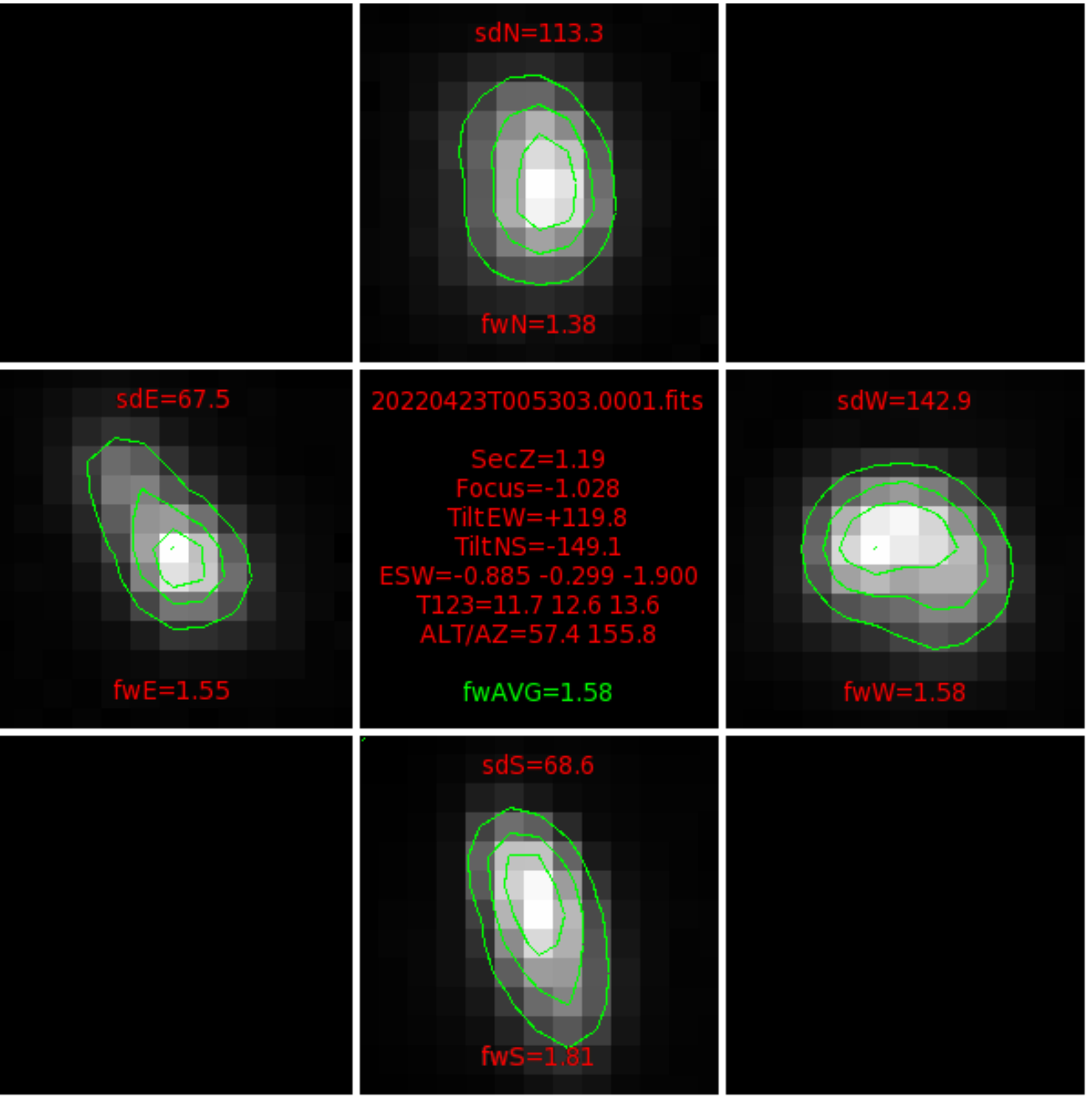
sdN=113.3
fwN=1.38
sdE=67.5
fwE=1.55
20220423T005303.0001.fits
SecZ=1.19
Focus=-1.028
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.885 -0.299 -1.900
T123=11.7 12.6 13.6
ALT/AZ=57.4 155.8
fwAVG=1.58
sdW=142.9
fwW=1.58
sdS=68.6
fwS=1.81
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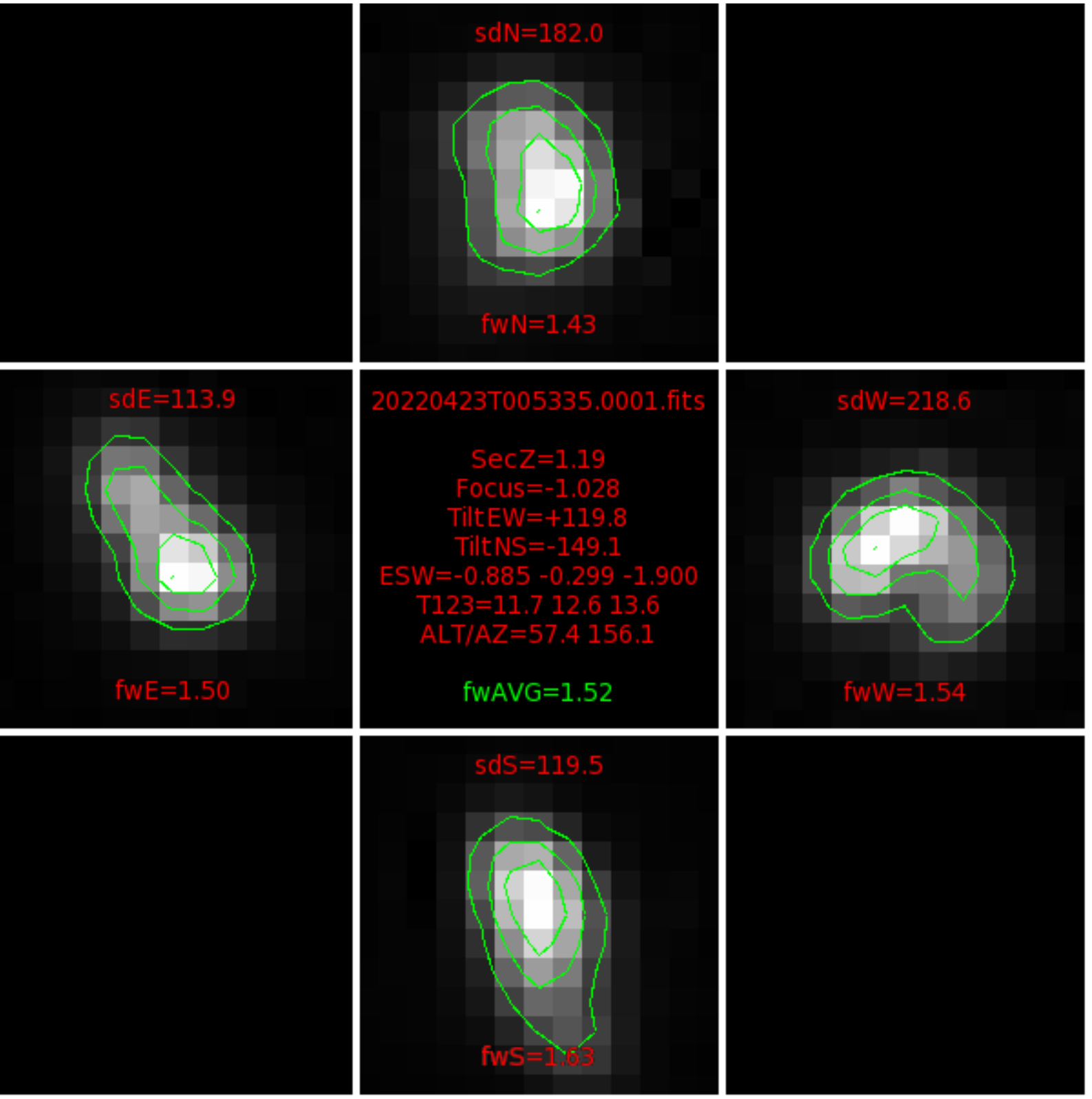
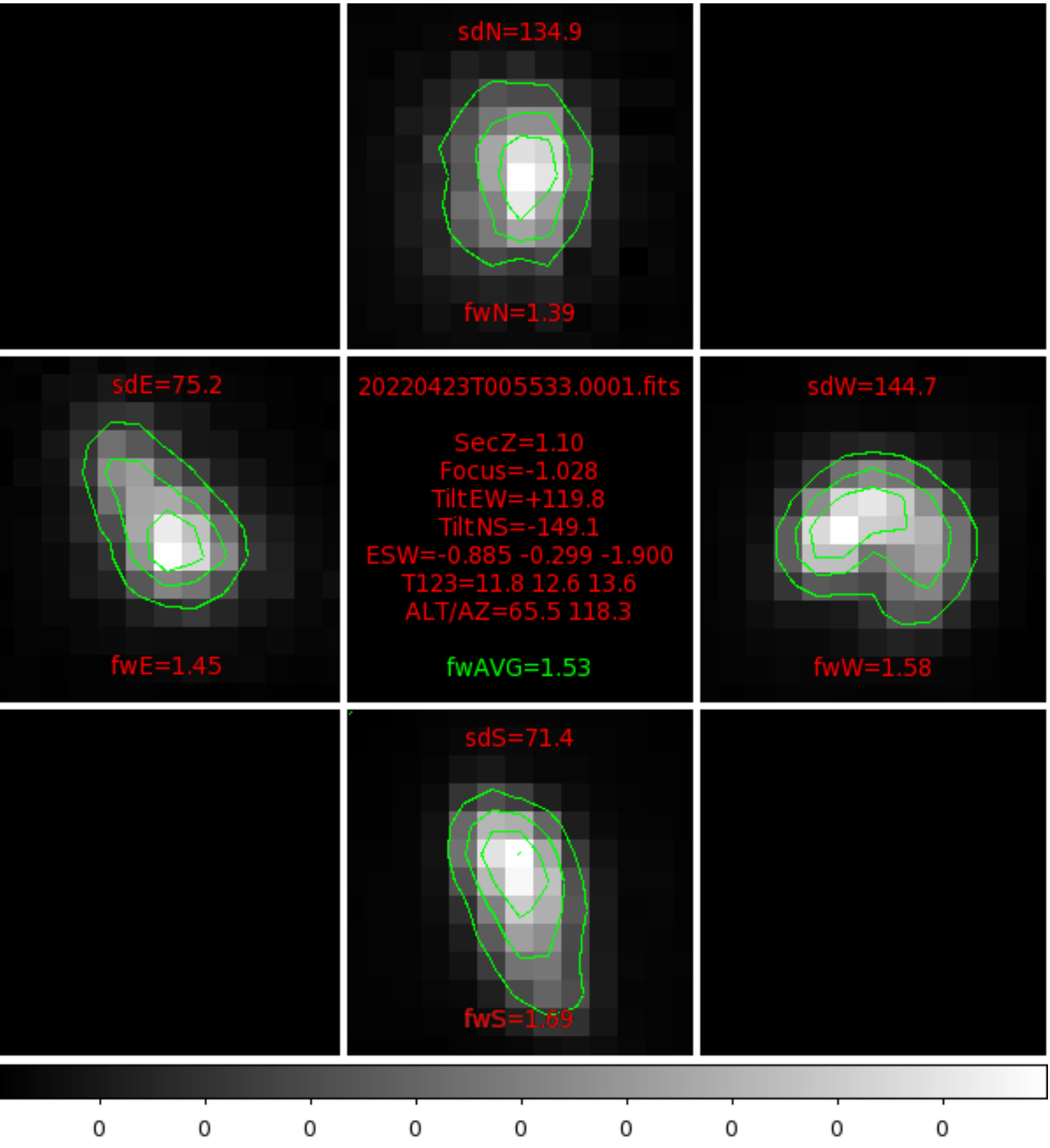

sdN=182.0
fwN=1.43
sdE=113.9
fwE=1.50
20220423T005335.0001.fits
SecZ=1.19
Focus=-1.028
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.885 -0.299 -1.900
T123=11.7 12.6 13.6
ALT/AZ=57.4 156.1
fwAVG=1.52
sdW=218.6
fwW=1.54
sdS=119.5
fwS=1.63
0 0 0 0 0 0 0 0 0


sdN=134.9
fwN=1.39
sdE=75.2
fwE=1.45
20220423T005533.0001.fits
SecZ=1.10
Focus=-1.028
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.885 -0.299 -1.900
T123=11.8 12.6 13.6
ALT/AZ=65.5 118.3
fwAVG=1.53
sdW=144.7
fwW=1.58
sdS=71.4
fwS=1.69
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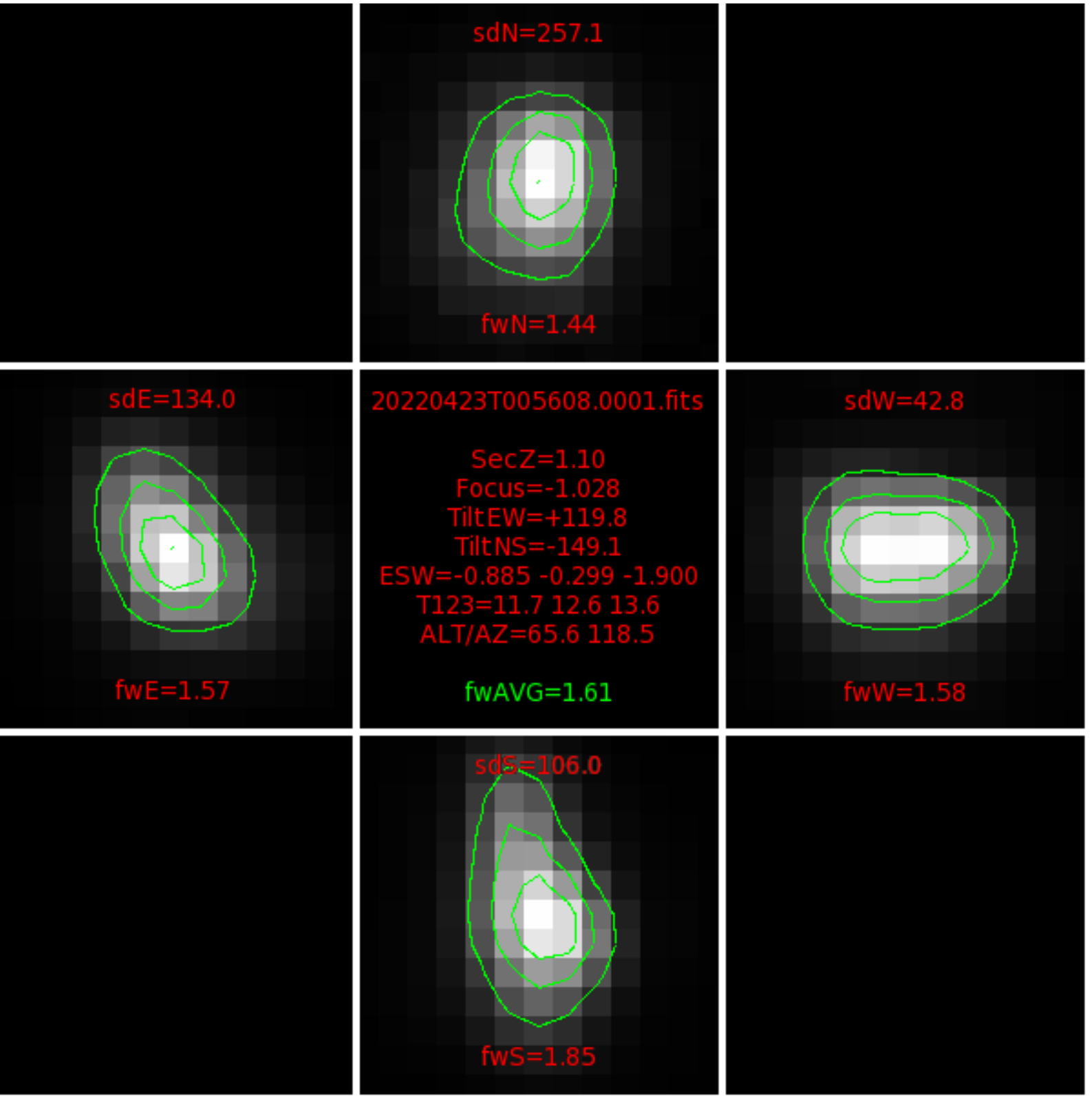
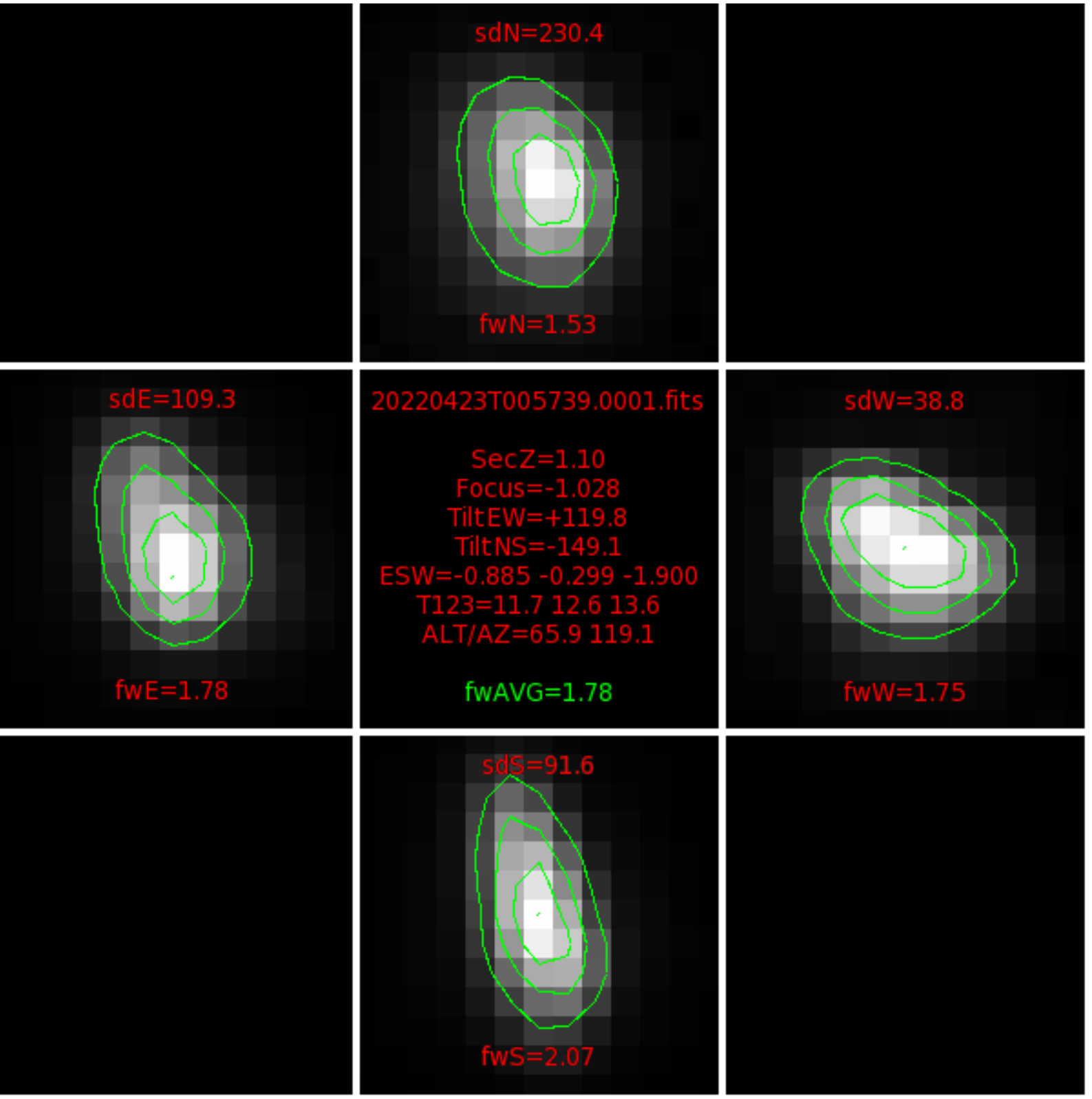
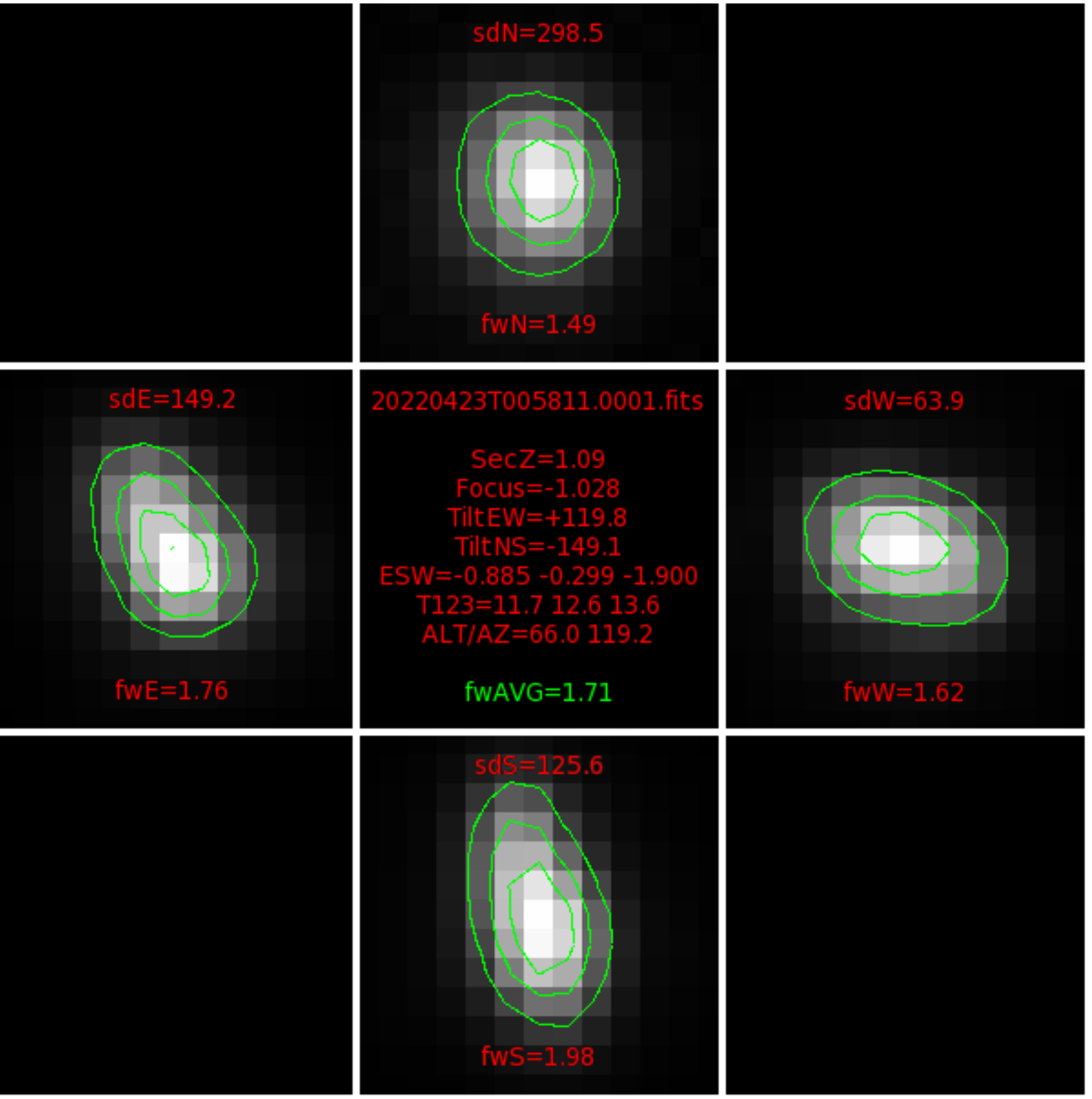
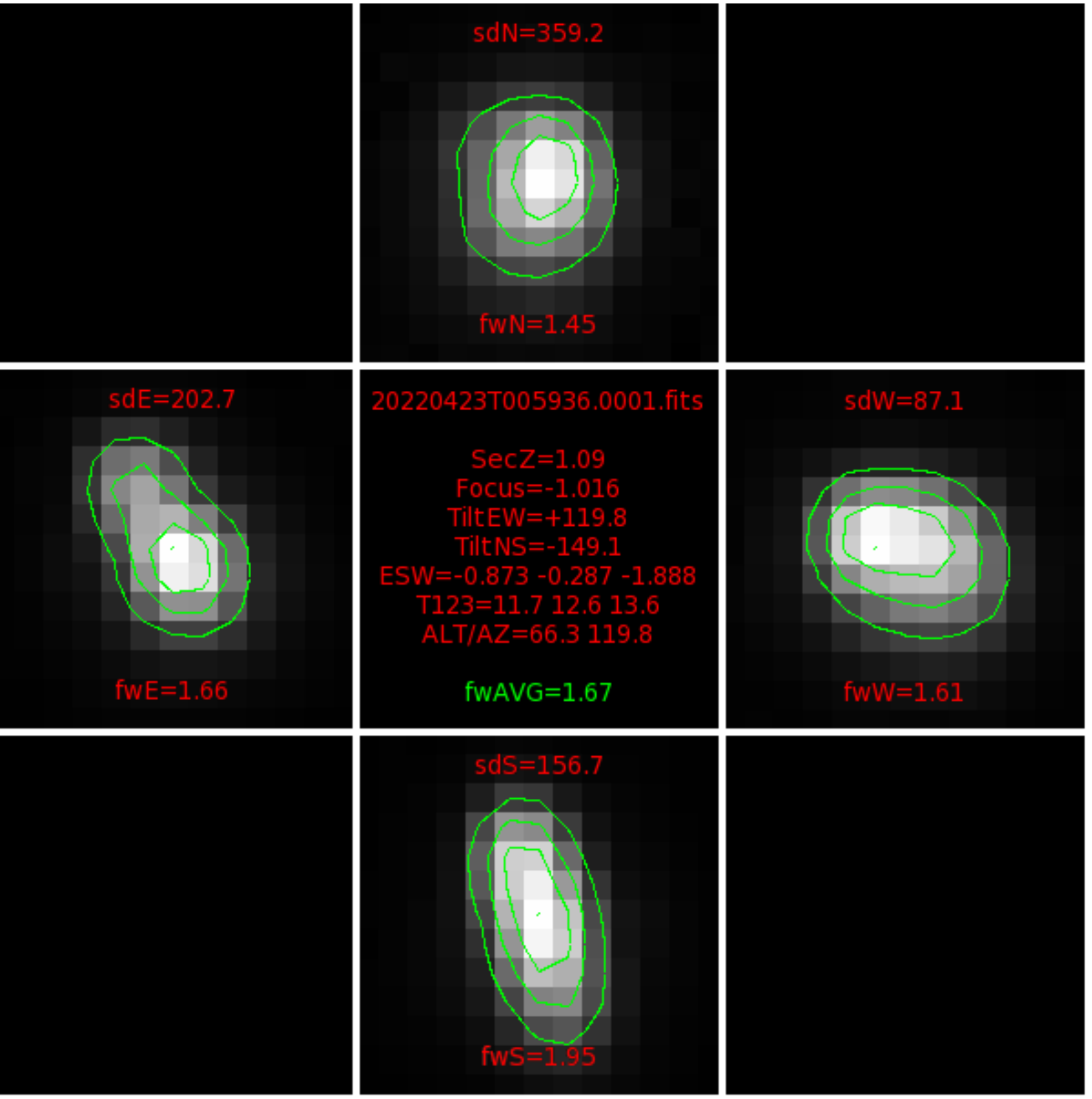

sdN=257.1
fwN=1.44
sdE=134.0
fwE=1.57
20220423T005608.0001.fits
SecZ=1.10
Focus=-1.028
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.885 -0.299 -1.900
T123=11.7 12.6 13.6
ALT/AZ=65.6 118.5
fwAVG=1.61
sdW=42.8
fwW=1.58
sdS=106.0
fwS=1.85
0 0 0 0 0 0 0 0 0


sdN=230.4
fwN=1.53
sdE=109.3
fwE=1.78
20220423T005739.0001.fits
SecZ=1.10
Focus=-1.028
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.885 -0.299 -1.900
T123=11.7 12.6 13.6
ALT/AZ=65.9 119.1
fwAVG=1.78
sdW=38.8
fwW=1.75
sdS=91.6
fwS=2.07
0 0 0 0 0 0 0 0 0


sdN=298.5
fwN=1.49
sdE=149.2
fwE=1.76
20220423T005811.0001.fits
SecZ=1.09
Focus=-1.028
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.885 -0.299 -1.900
T123=11.7 12.6 13.6
ALT/AZ=66.0 119.2
fwAVG=1.71
sdW=63.9
fwW=1.62
sdS=125.6
fwS=1.98
0 0 0 0 0 0 0 0 0


sdN=359.2
fwN=1.45
sdE=202.7
fwE=1.66
20220423T005936.0001.fits
SecZ=1.09
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.6 13.6
ALT/AZ=66.3 119.8
fwAVG=1.67
sdW=87.1
fwW=1.61
sdS=156.7
fwS=1.95
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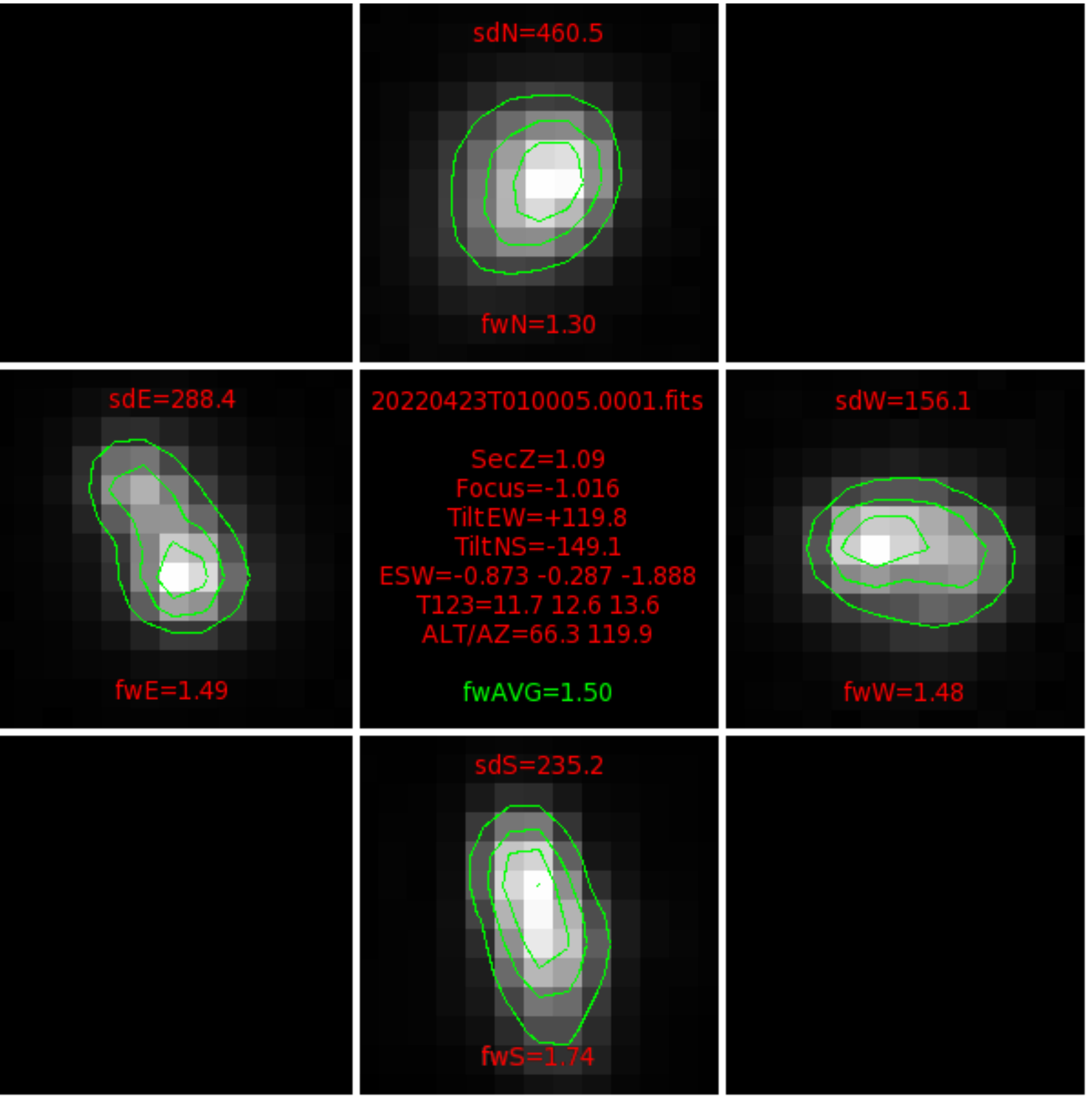
sdN=460.5
fwN=1.30
sdE=288.4
fwE=1.49
20220423T010005.0001.fits
SecZ=1.09
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.6 13.6
ALT/AZ=66.3 119.9
fwAVG=1.50
sdW=156.1
fwW=1.48
sdS=235.2
fwS=1.74
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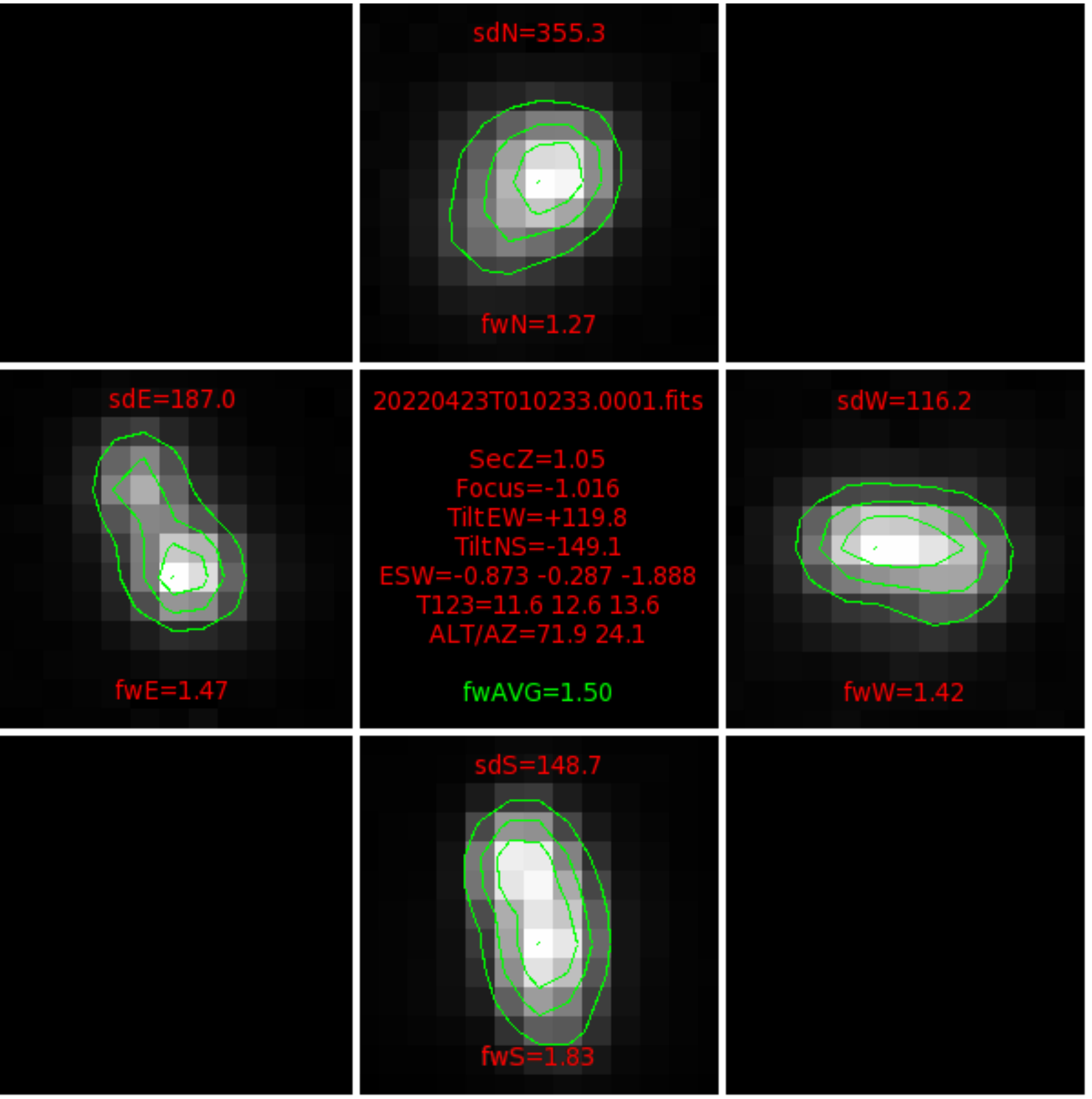
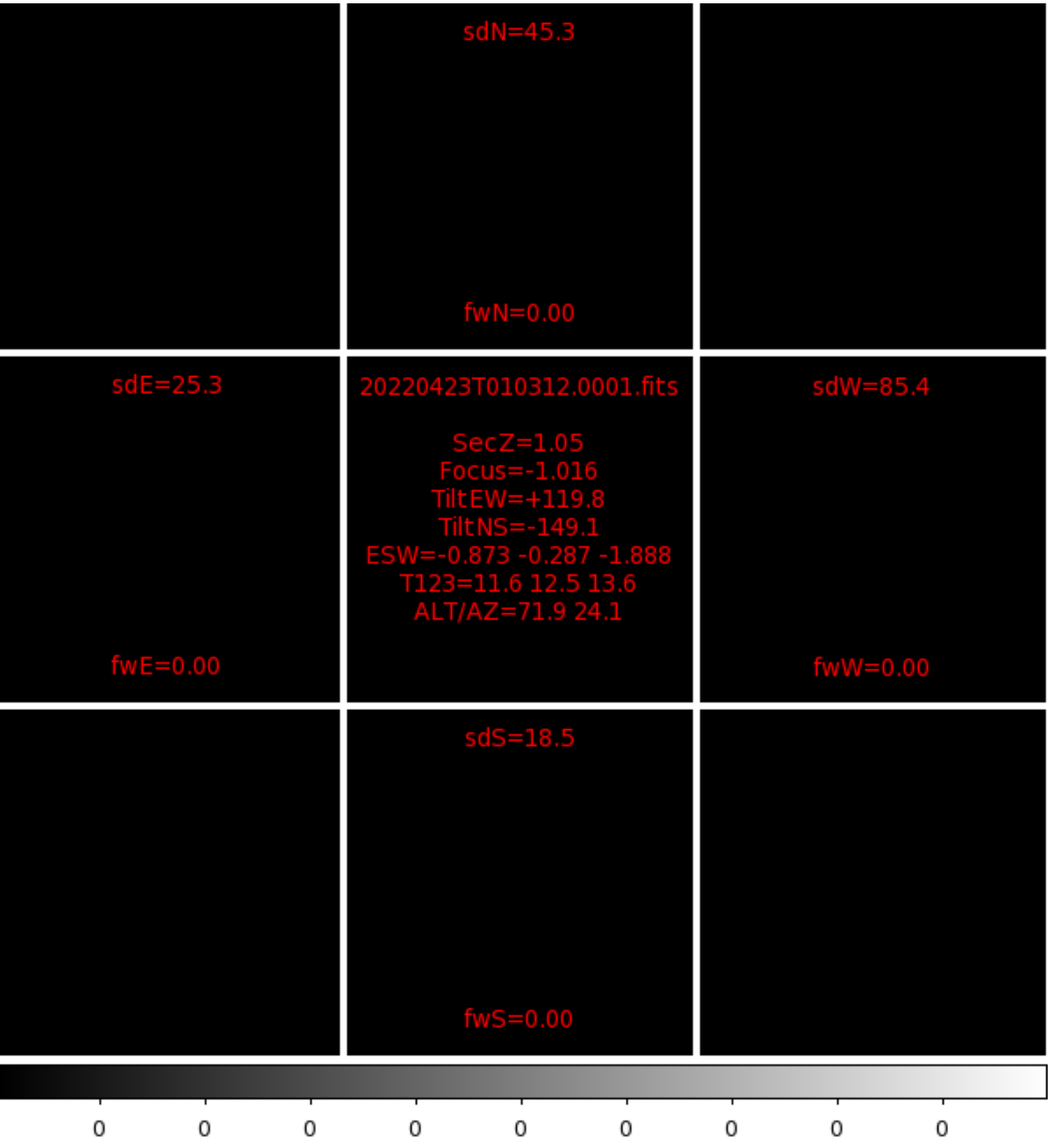
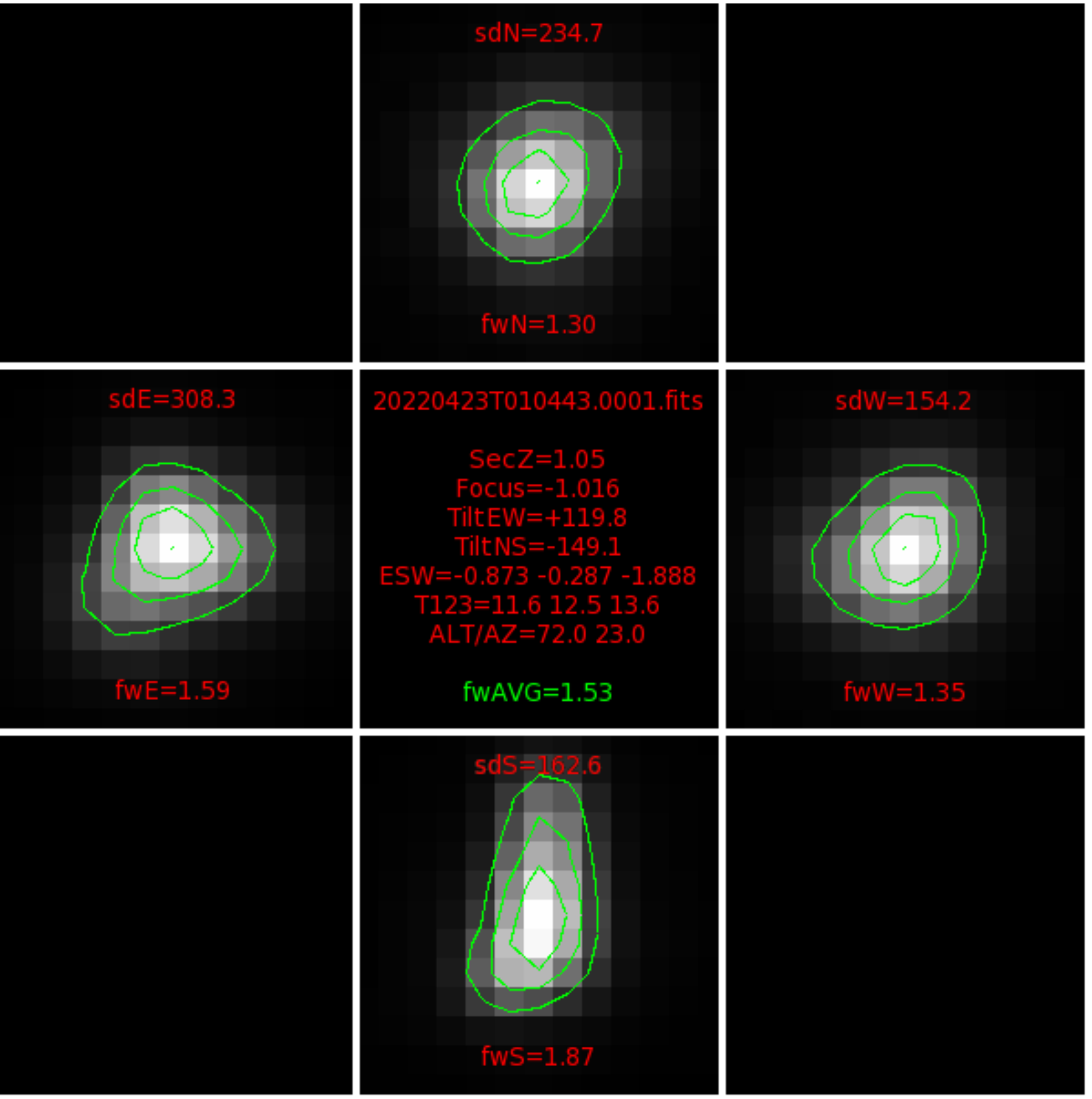

sdN=355.3
fwN=1.27
sdE=187.0
fwE=1.47
20220423T010233.0001.fits
SecZ=1.05
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.6 12.6 13.6
ALT/AZ=71.9 24.1
fwAVG=1.50
sdW=116.2
fwW=1.42
sdS=148.7
fwS=1.83
0 0 0 0 0 0 0 0 0


sdN=45.3
fwN=0.00
sdE=25.3
fwE=0.00
20220423T010312.0001.fits
SecZ=1.05
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.6 12.5 13.6
ALT/AZ=71.9 24.1
sdW=85.4
fwW=0.00
sdS=18.5
fwS=0.00
0 0 0 0 0 0 0 0 0


sdN=234.7
fwN=1.30
sdE=308.3
fwE=1.59
20220423T010443.0001.fits
SecZ=1.05
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.6 12.5 13.6
ALT/AZ=72.0 23.0
fwAVG=1.53
sdW=154.2
fwW=1.35
sdS=162.6
fwS=1.87
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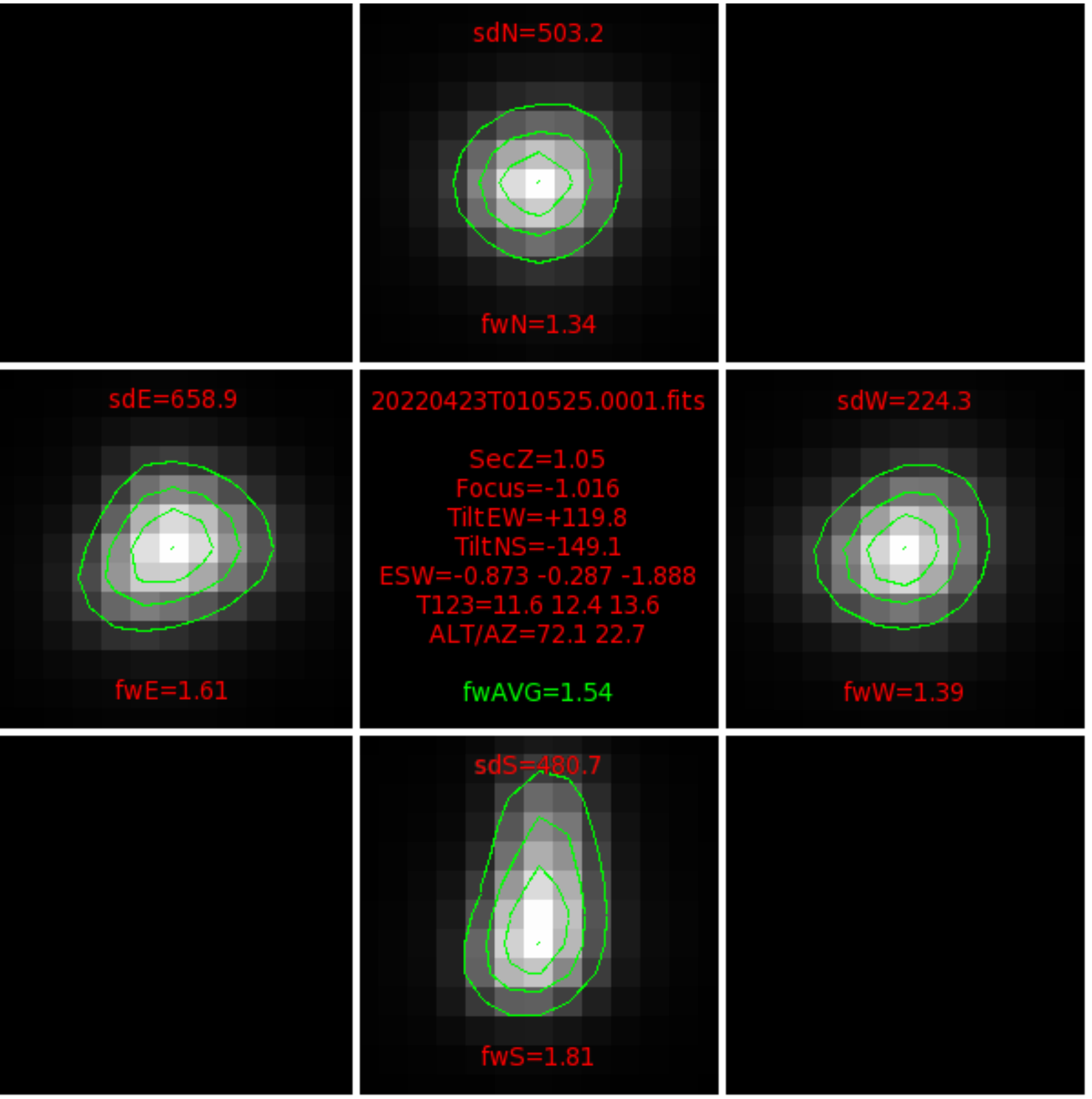
sdN=503.2
fwN=1.34
sdE=658.9
fwE=1.61
20220423T010525.0001.fits
SecZ=1.05
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.6 12.4 13.6
ALT/AZ=72.1 22.7
fwAVG=1.54
sdW=224.3
fwW=1.39
sdS=480.7
fwS=1.81
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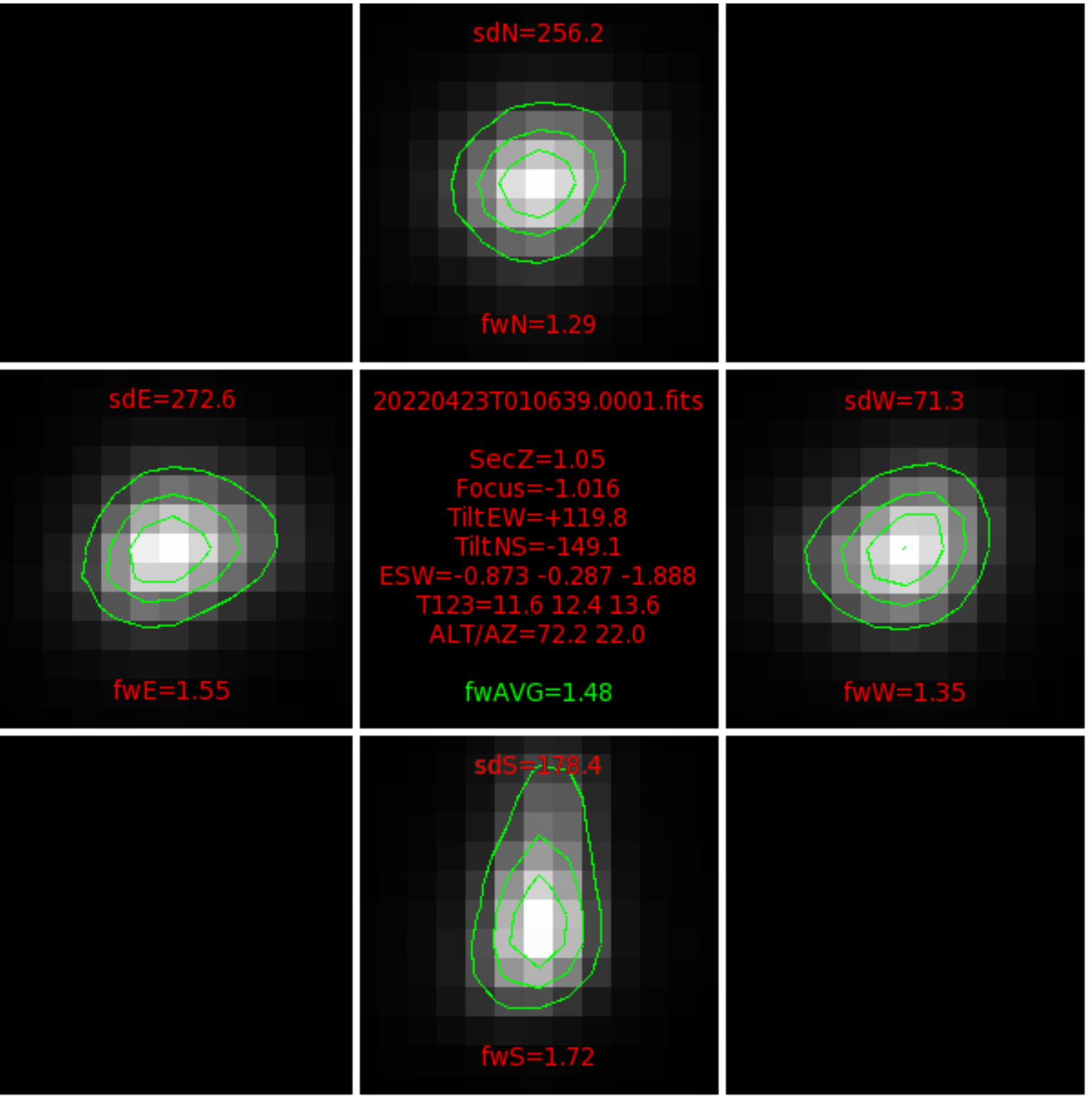
sdN=256.2
fwN=1.29
sdE=272.6
fwE=1.55
20220423T010639.0001.fits
SecZ=1.05
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.6 12.4 13.6
ALT/AZ=72.2 22.0
fwAVG=1.48
sdW=71.3
fwW=1.35
sdS=178.4
fwS=1.72
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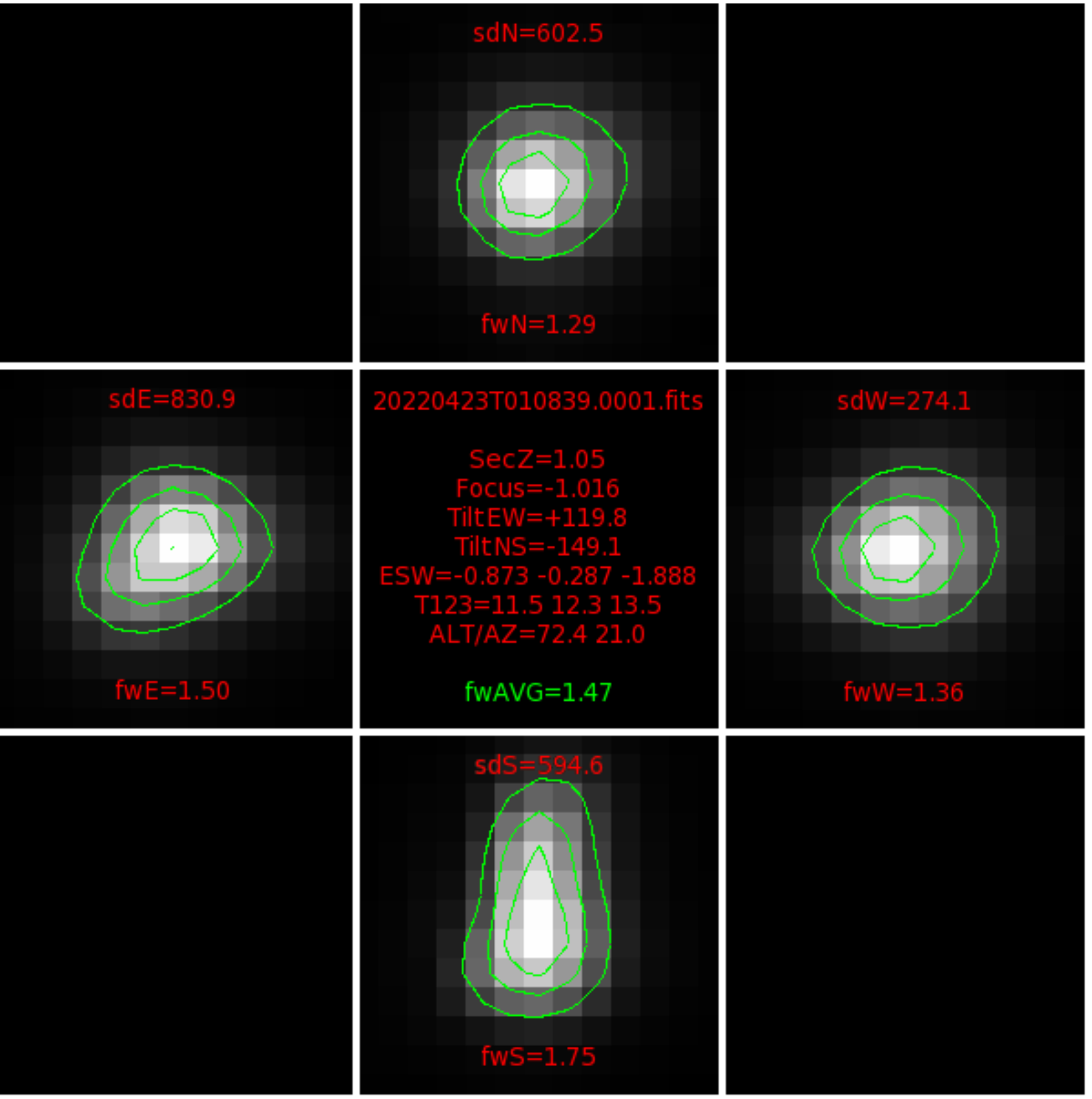
sdN=602.5
fwN=1.29
sdE=830.9
fwE=1.50
20220423T010839.0001.fits
SecZ=1.05
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.5 12.3 13.5
ALT/AZ=72.4 21.0
fwAVG=1.47
sdW=274.1
fwW=1.36
sdS=594.6
fwS=1.75
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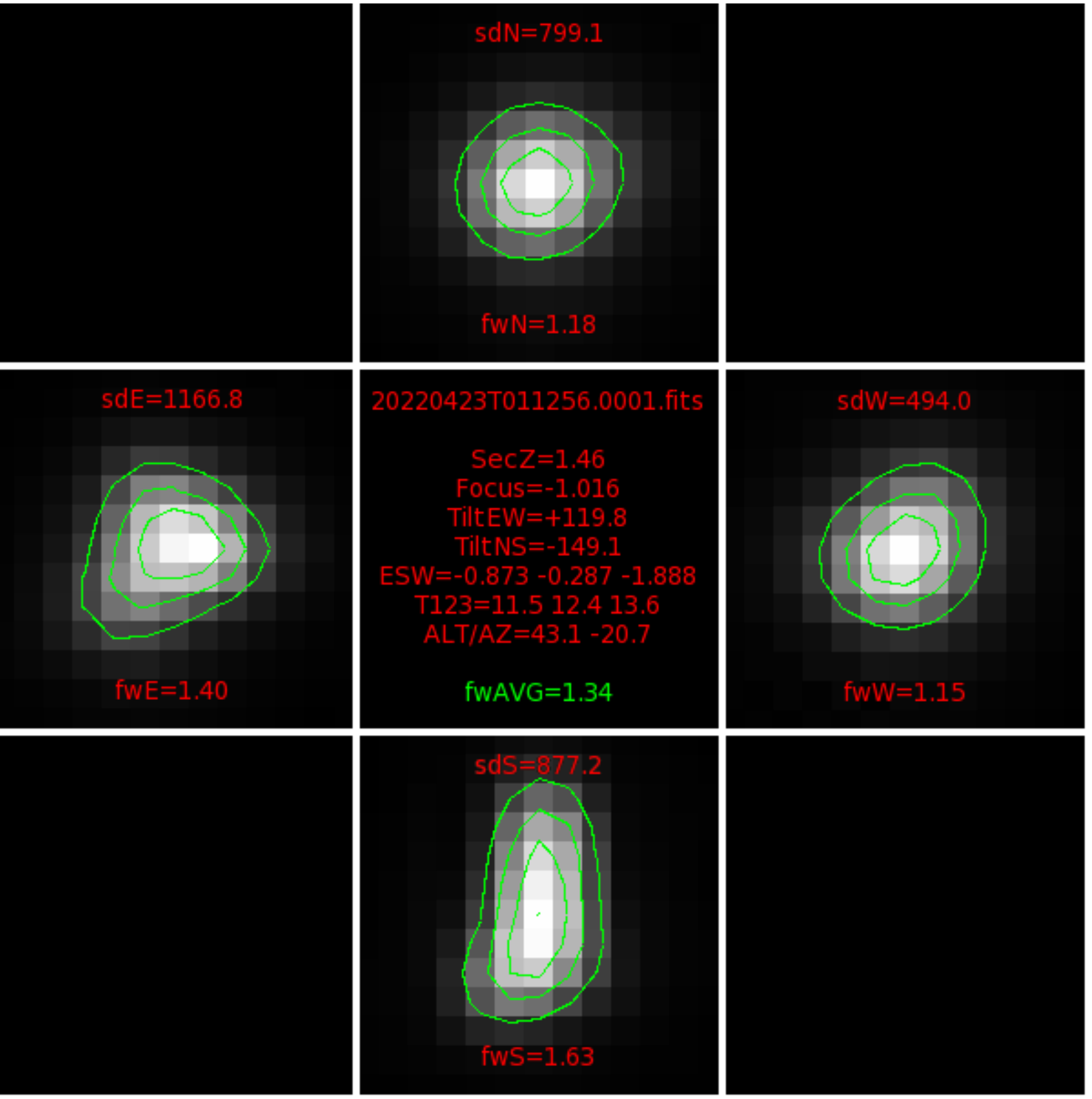
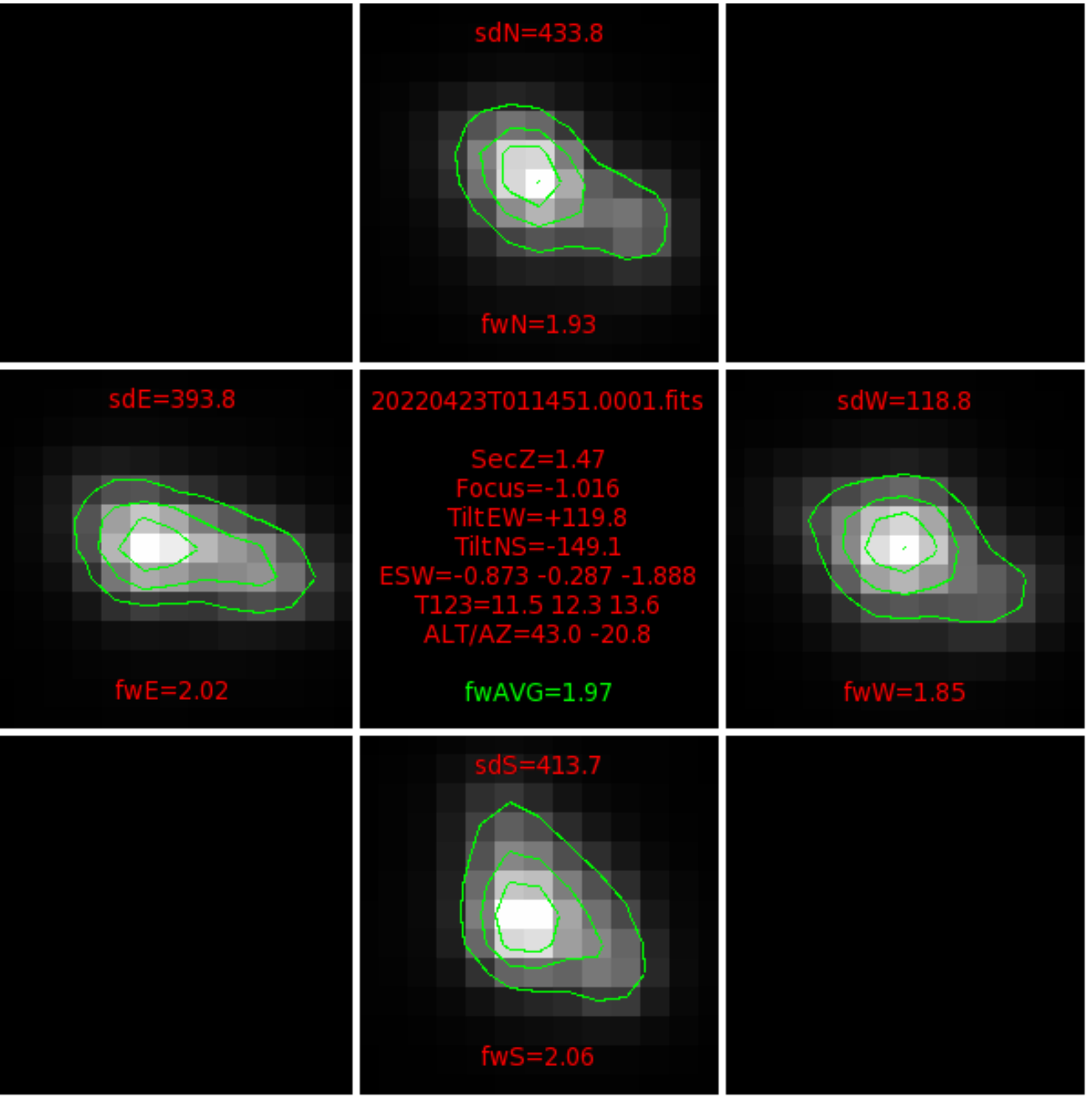
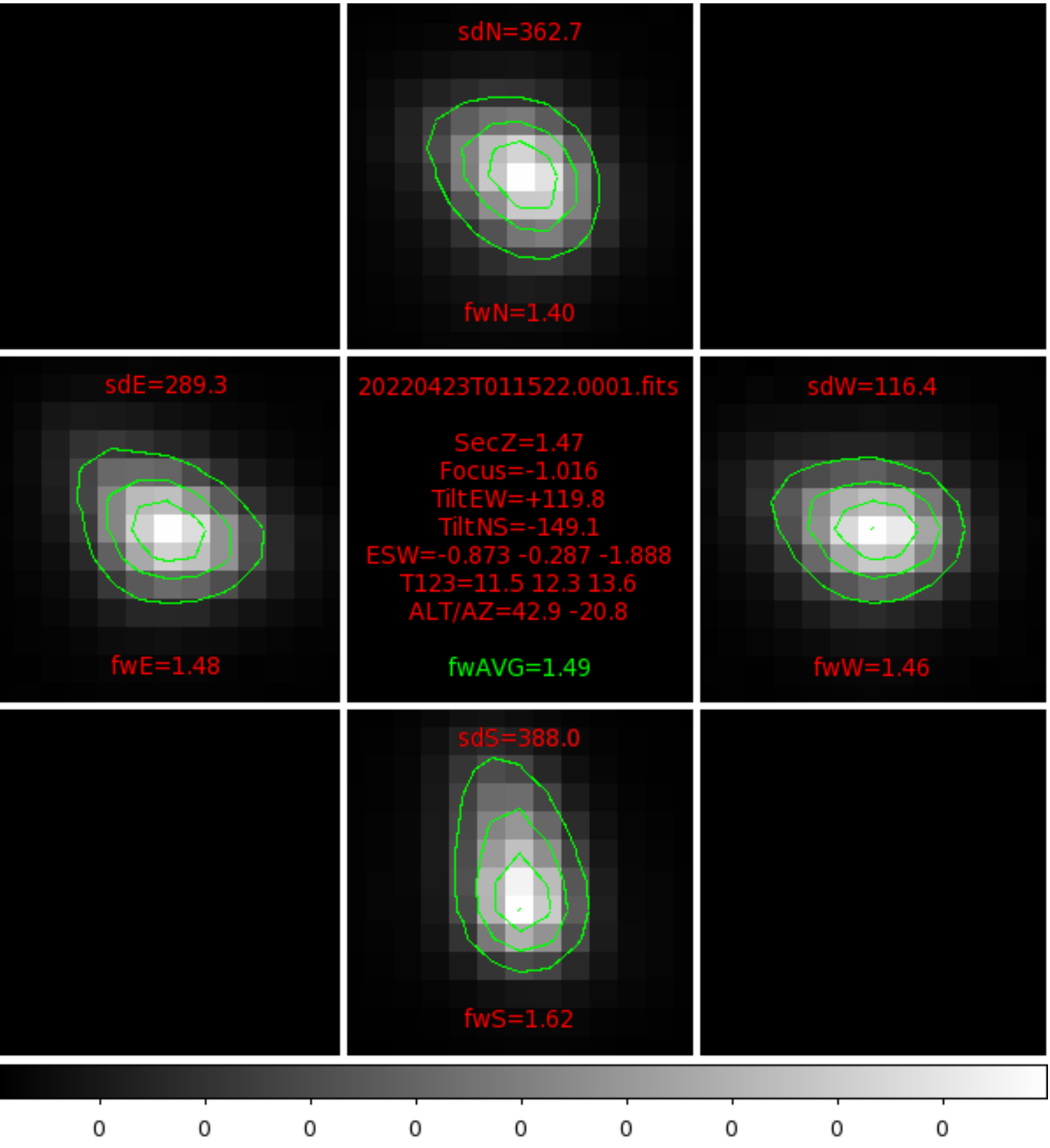
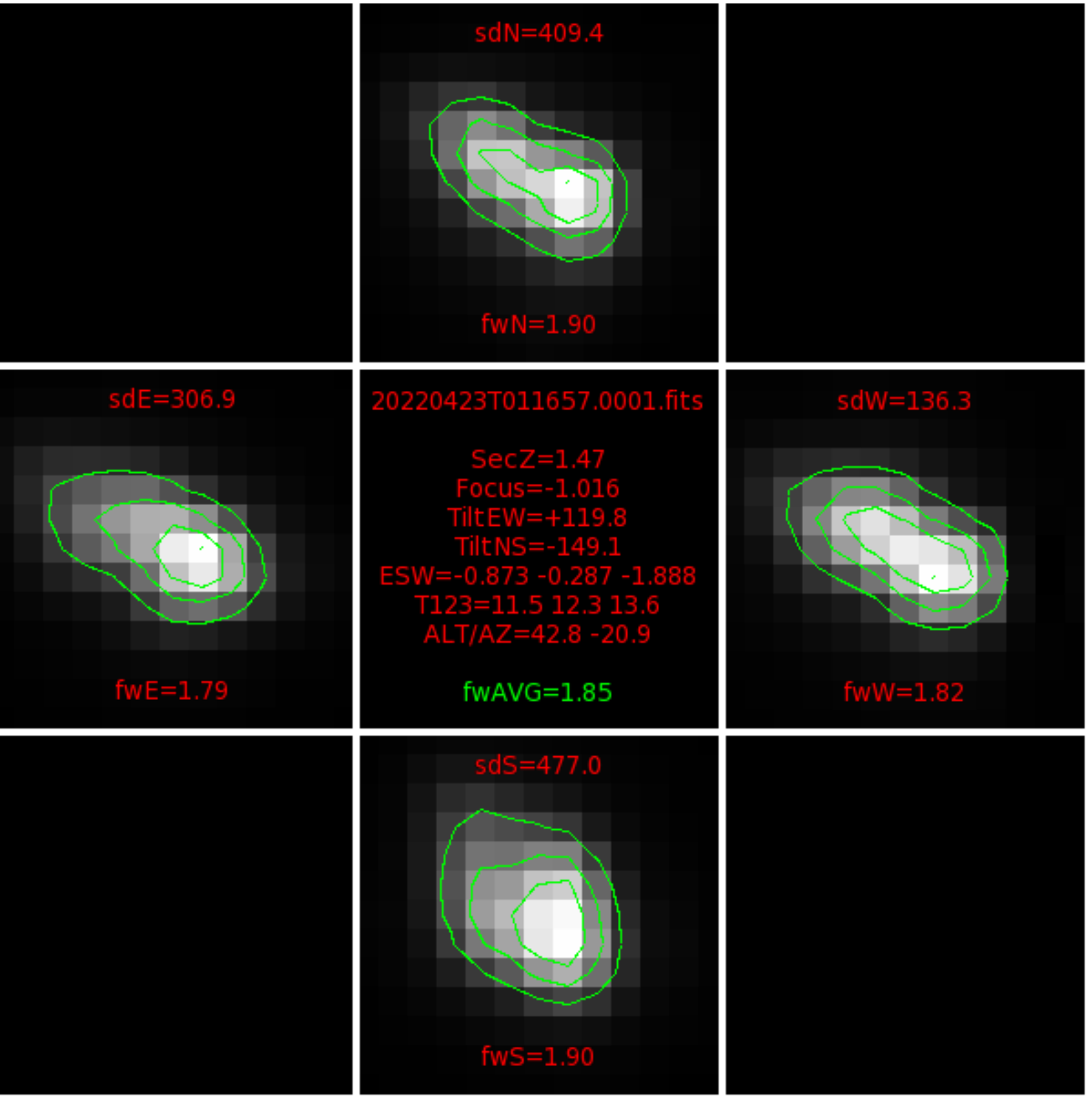

sdN=799.1
fwN=1.18
sdE=1166.8
fwE=1.40
20220423T011256.0001.fits
SecZ=1.46
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.5 12.4 13.6
ALT/AZ=43.1 -20.7
fwAVG=1.34
sdW=494.0
fwW=1.15
sdS=877.2
fwS=1.63
0 0 0 0 0 0 0 0 0


sdN=433.8
fwN=1.93
sdE=393.8
fwE=2.02
20220423T011451.0001.fits
SecZ=1.47
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.5 12.3 13.6
ALT/AZ=43.0 -20.8
fwAVG=1.97
sdW=118.8
fwW=1.85
sdS=413.7
fwS=2.06
0 0 0 0 0 0 0 0 0


sdN=362.7
fwN=1.40
sdE=289.3
fwE=1.48
20220423T011522.0001.fits
SecZ=1.47
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.5 12.3 13.6
ALT/AZ=42.9 -20.8
fwAVG=1.49
sdW=116.4
fwW=1.46
sdS=388.0
fwS=1.62
0 0 0 0 0 0 0 0 0


sdN=409.4
fwN=1.90
sdE=306.9
fwE=1.79
20220423T011657.0001.fits
SecZ=1.47
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.5 12.3 13.6
ALT/AZ=42.8 -20.9
fwAVG=1.85
sdW=136.3
fwW=1.82
sdS=477.0
fwS=1.90
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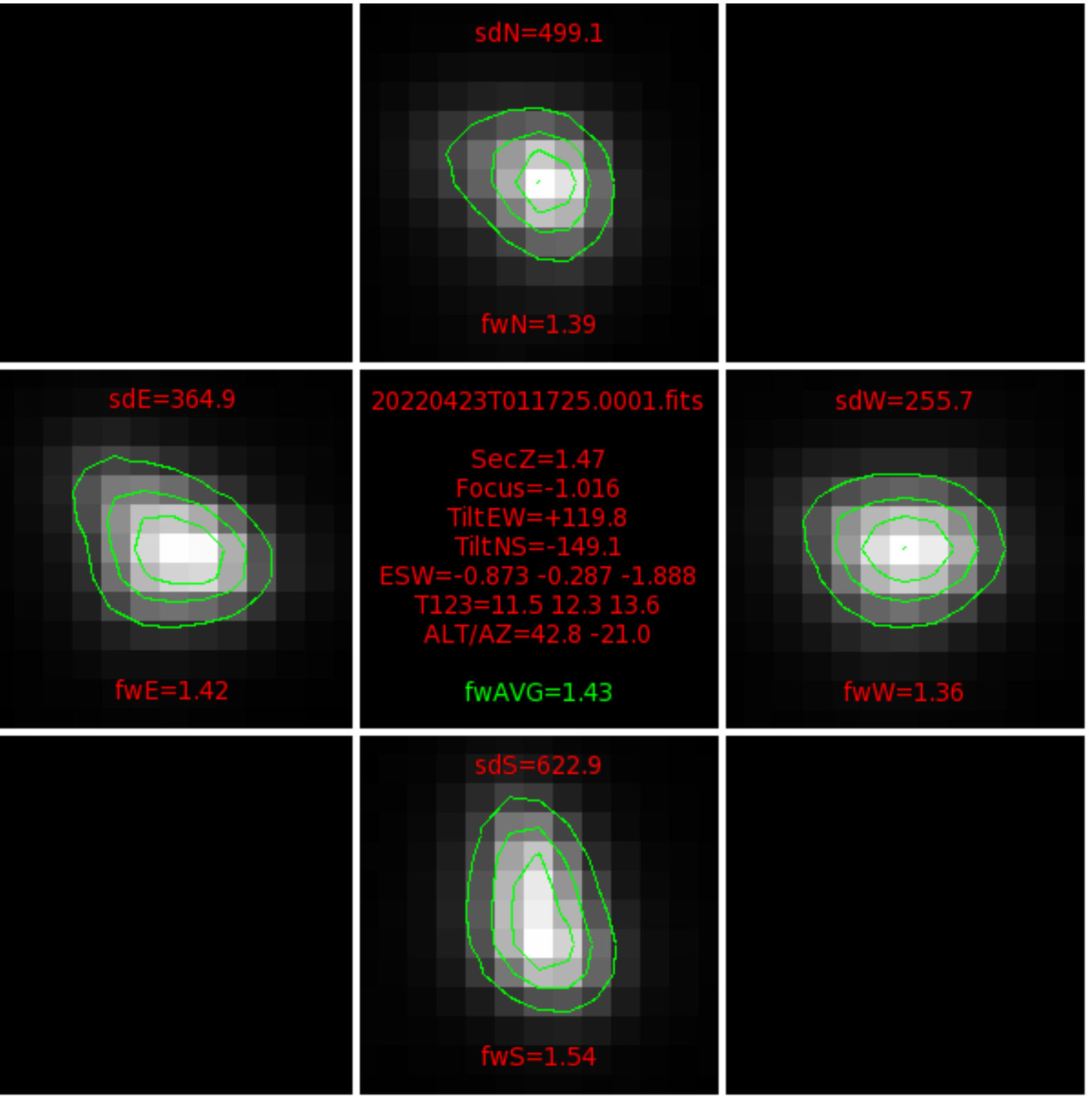
sdN=499.1
fwN=1.39
sdE=364.9
fwE=1.42
20220423T011725.0001.fits
SecZ=1.47
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.5 12.3 13.6
ALT/AZ=42.8 -21.0
fwAVG=1.43
sdW=255.7
fwW=1.36
sdS=622.9
fwS=1.54
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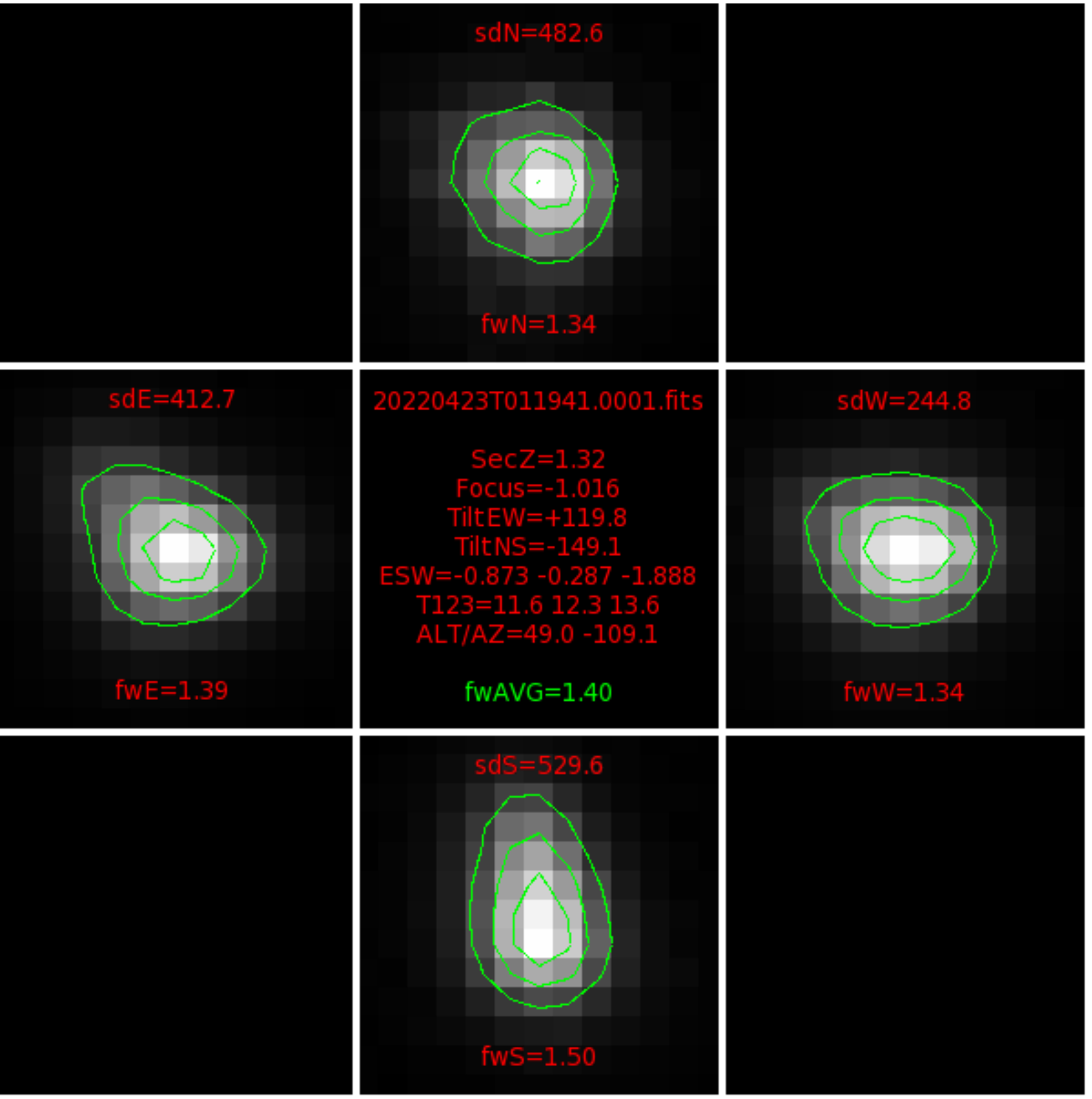
sdN=482.6
fwN=1.34
sdE=412.7
fwE=1.39
20220423T011941.0001.fits
SecZ=1.32
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.6 12.3 13.6
ALT/AZ=49.0 -109.1
fwAVG=1.40
sdW=244.8
fwW=1.34
sdS=529.6
fwS=1.50
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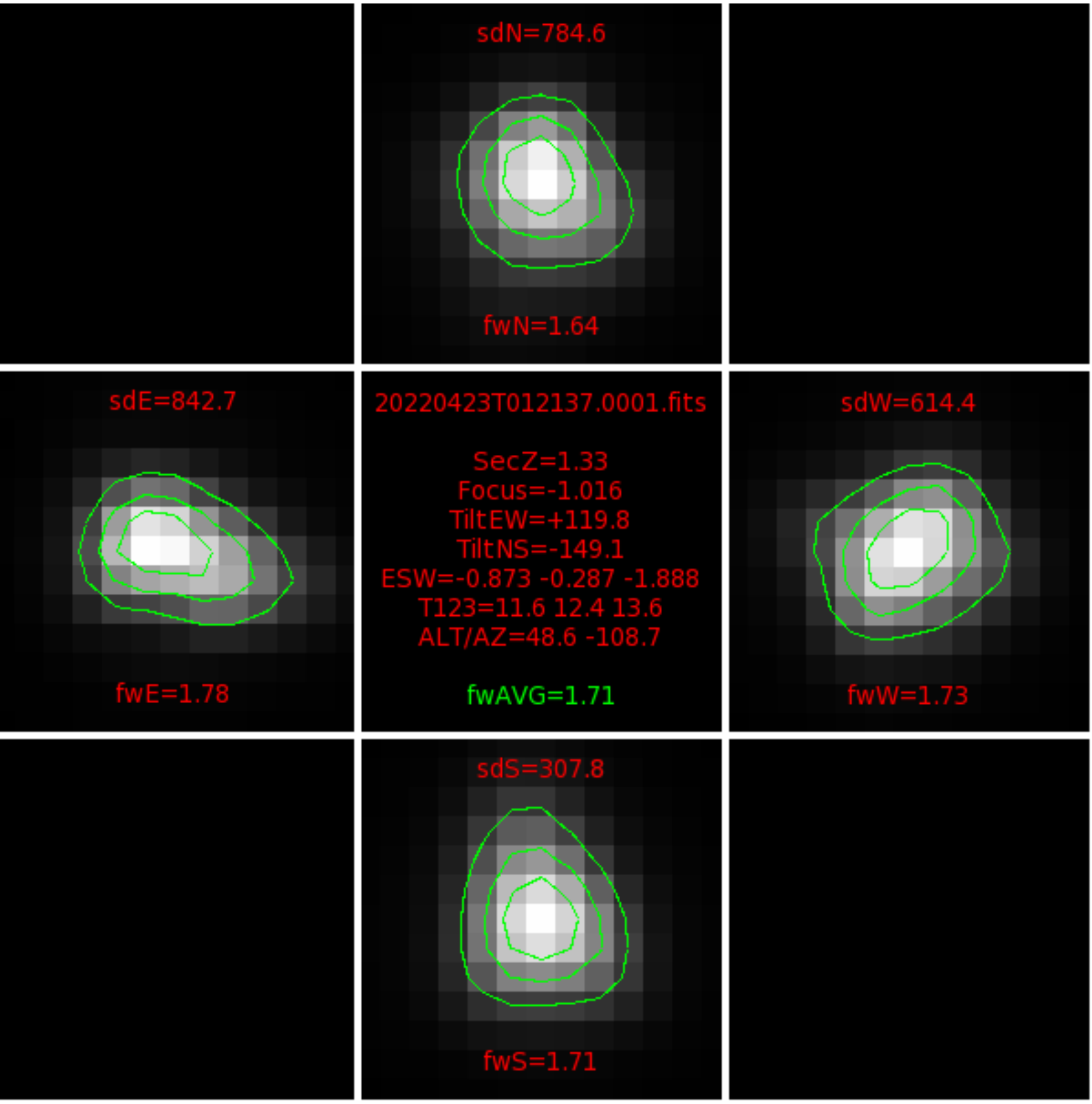
sdN=784.6
fwN=1.64
sdE=842.7
fwE=1.78
20220423T012137.0001.fits
SecZ=1.33
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.6 12.4 13.6
ALT/AZ=48.6 -108.7
fwAVG=1.71
sdW=614.4
fwW=1.73
sdS=307.8
fwS=1.71
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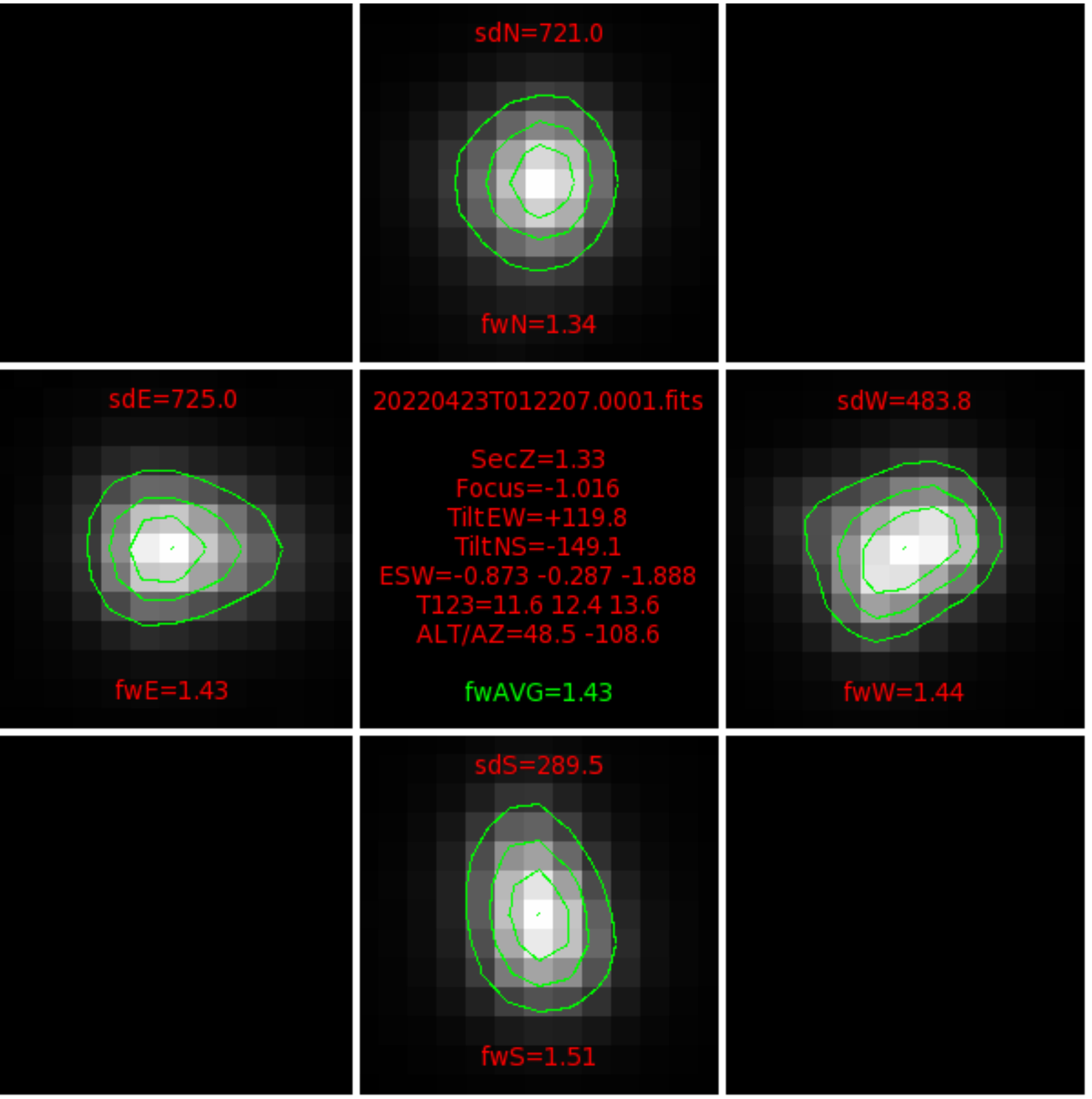
sdN=721.0
fwN=1.34
sdE=725.0
fwE=1.43
20220423T012207.0001.fits
SecZ=1.33
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.6 12.4 13.6
ALT/AZ=48.5 -108.6
fwAVG=1.43
sdW=483.8
fwW=1.44
sdS=289.5
fwS=1.51
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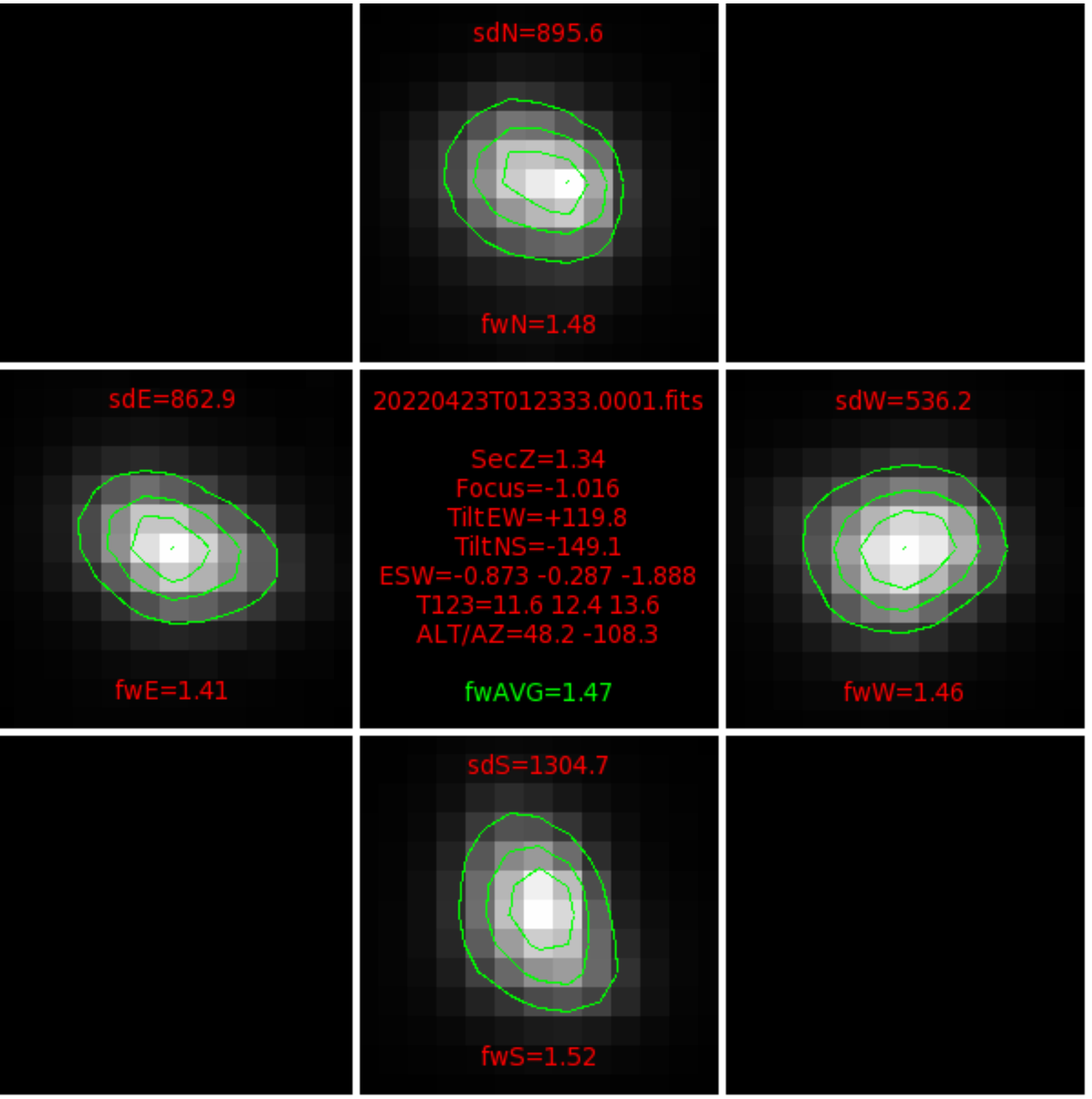
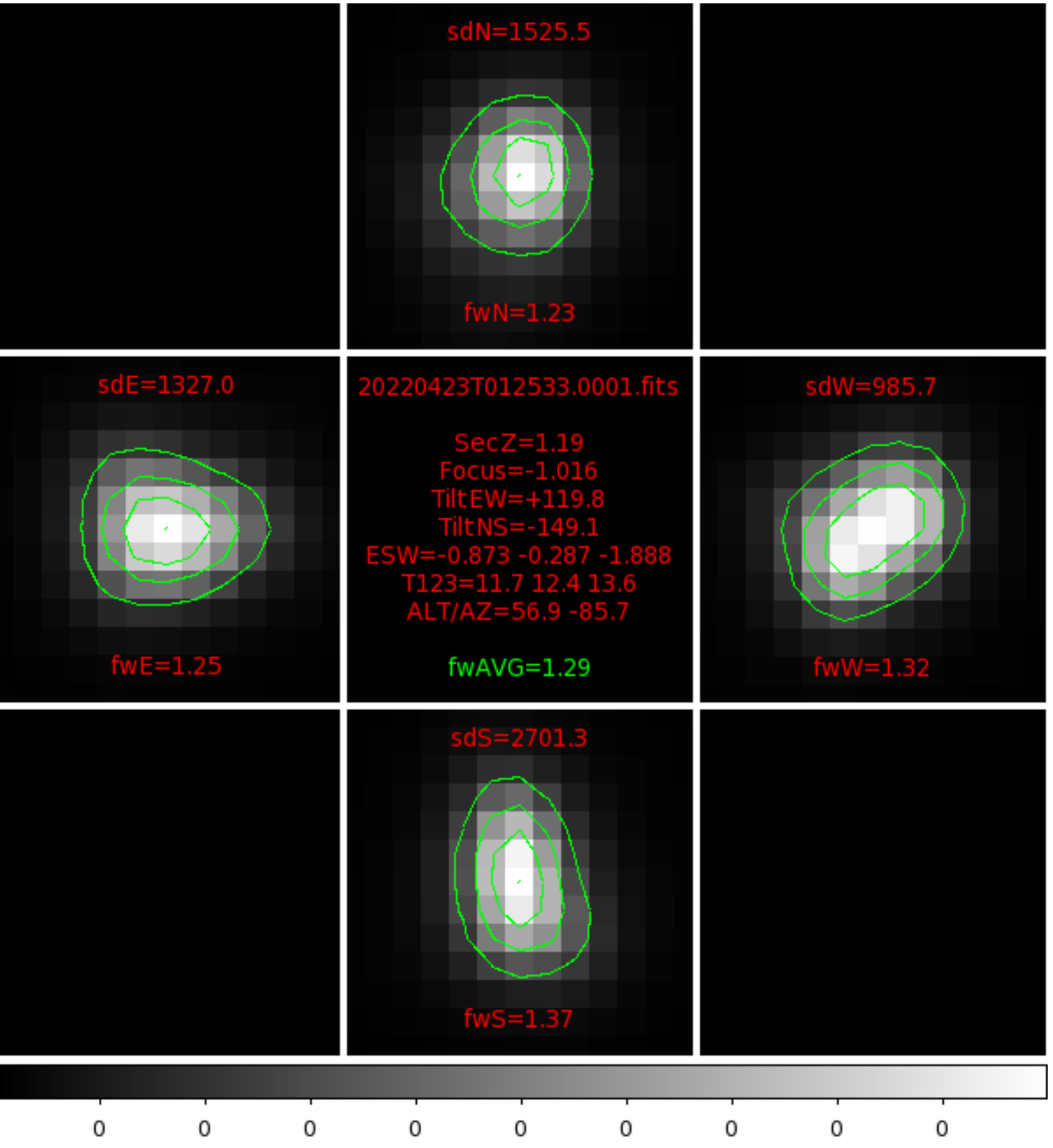

sdN=895.6
fwN=1.48
sdE=862.9
fwE=1.41
20220423T012333.0001.fits
SecZ=1.34
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.6 12.4 13.6
ALT/AZ=48.2 -108.3
fwAVG=1.47
sdW=536.2
fwW=1.46
sdS=1304.7
fwS=1.52
0 0 0 0 0 0 0 0 0


sdN=1525.5
fwN=1.23
sdE=1327.0
fwE=1.25
20220423T012533.0001.fits
SecZ=1.19
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.4 13.6
ALT/AZ=56.9 -85.7
fwAVG=1.29
sdW=985.7
fwW=1.32
sdS=2701.3
fwS=1.37
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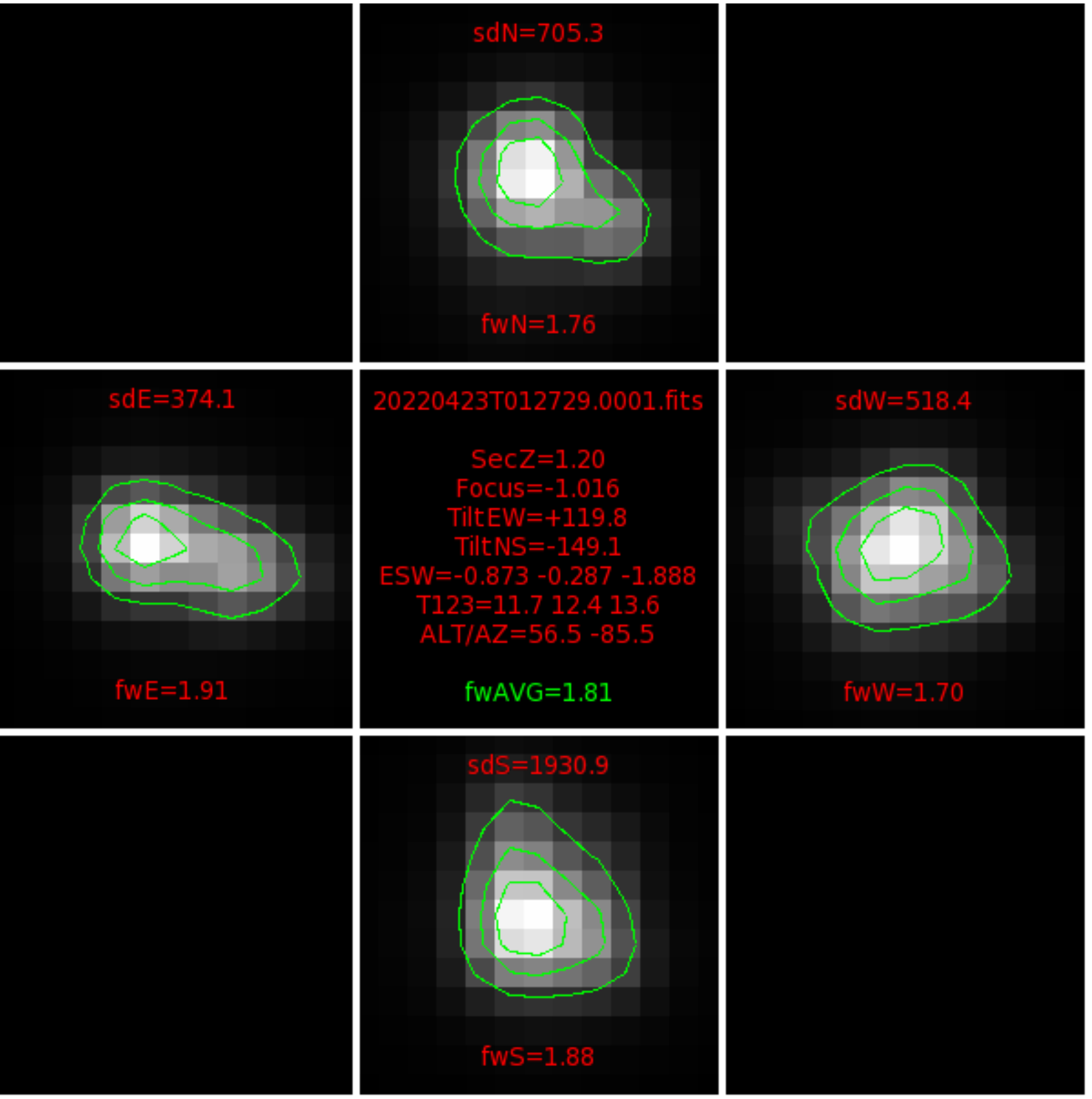
sdN=705.3
fwN=1.76
sdE=374.1
fwE=1.91
20220423T012729.0001.fits
SecZ=1.20
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.4 13.6
ALT/AZ=56.5 -85.5
fwAVG=1.81
sdW=518.4
fwW=1.70
sdS=1930.9
fwS=1.88
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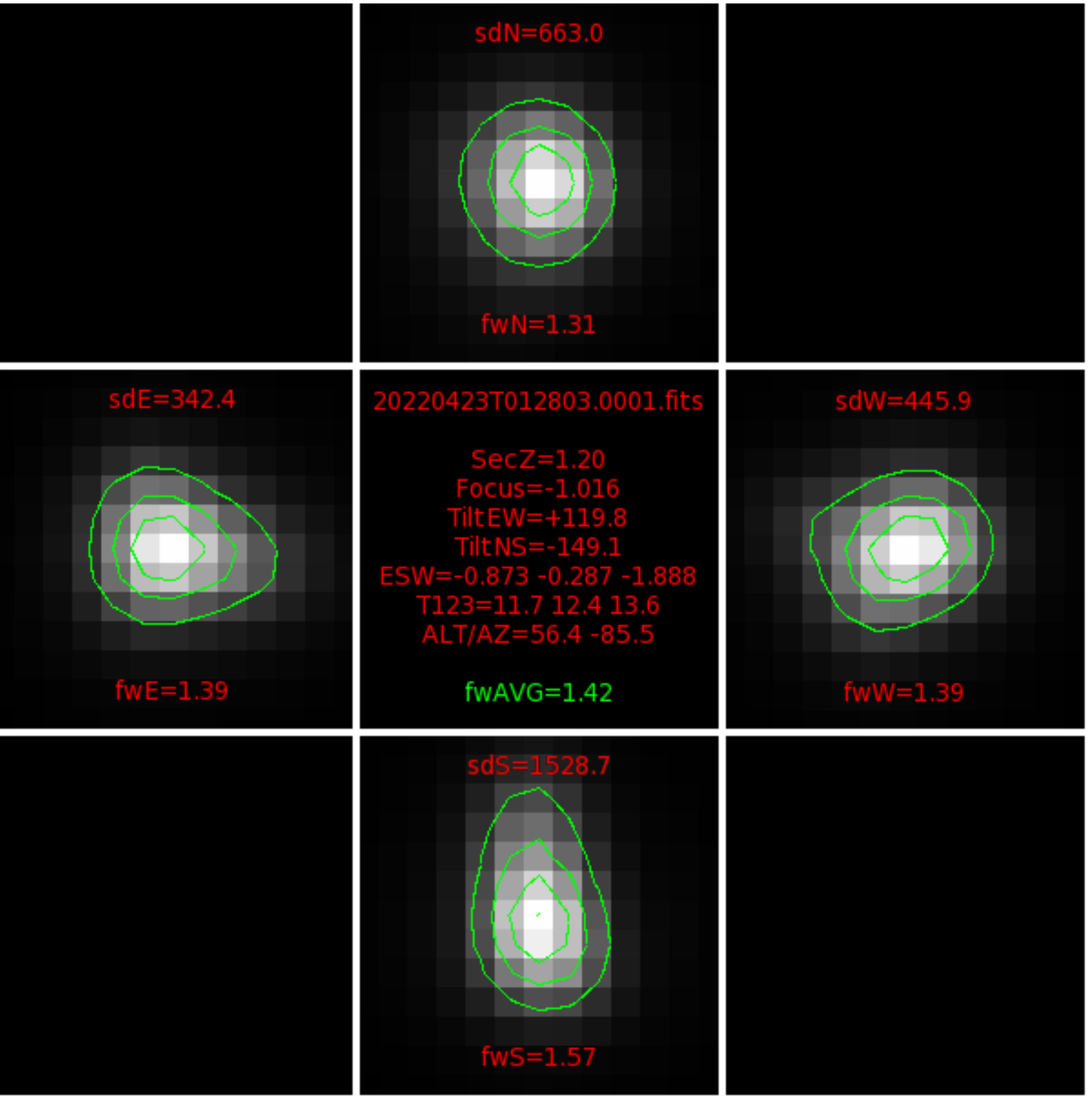
sdN=663.0
fwN=1.31
sdE=342.4
fwE=1.39
20220423T012803.0001.fits
SecZ=1.20
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.4 13.6
ALT/AZ=56.4 -85.5
fwAVG=1.42
sdW=445.9
fwW=1.39
sdS=1528.7
fwS=1.57
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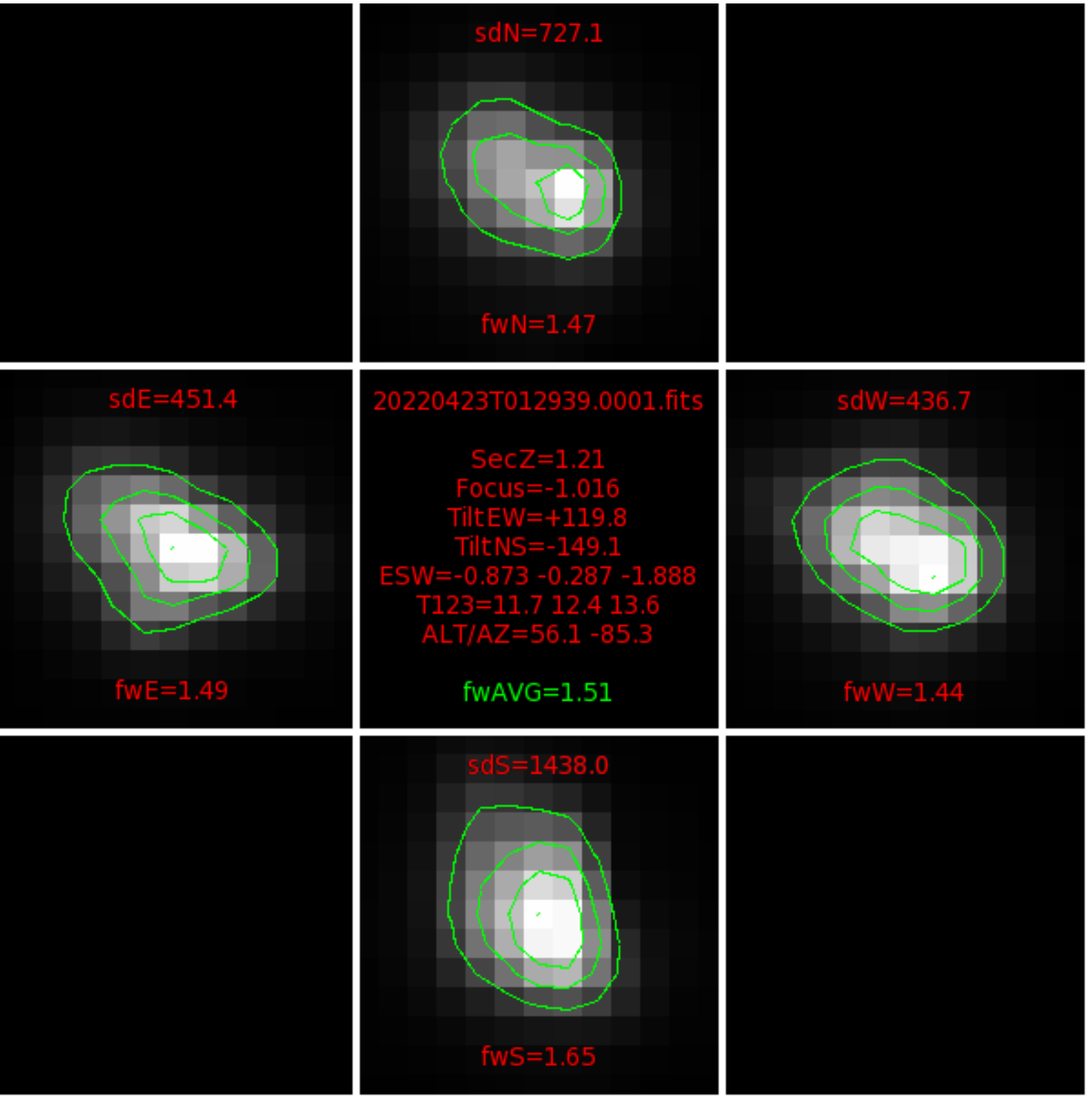
sdN=727.1
fwN=1.47
sdE=451.4
fwE=1.49
20220423T012939.0001.fits
SecZ=1.21
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.4 13.6
ALT/AZ=56.1 -85.3
fwAVG=1.51
sdW=436.7
fwW=1.44
sdS=1438.0
fwS=1.65
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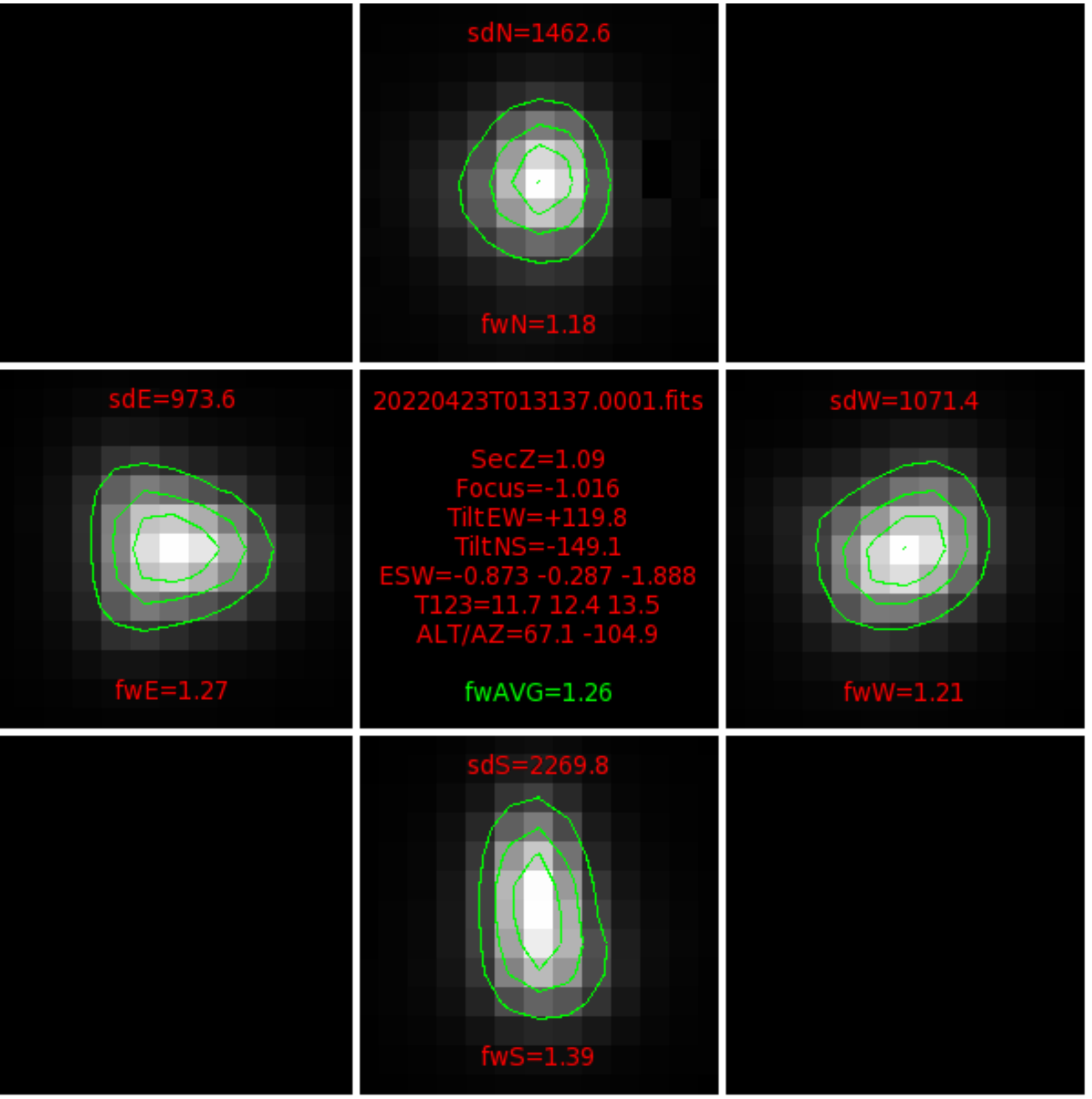
sdN=1462.6
fwN=1.18
sdE=973.6
fwE=1.27
20220423T013137.0001.fits
SecZ=1.09
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.4 13.5
ALT/AZ=67.1 -104.9
fwAVG=1.26
sdW=1071.4
fwW=1.21
sdS=2269.8
fwS=1.39
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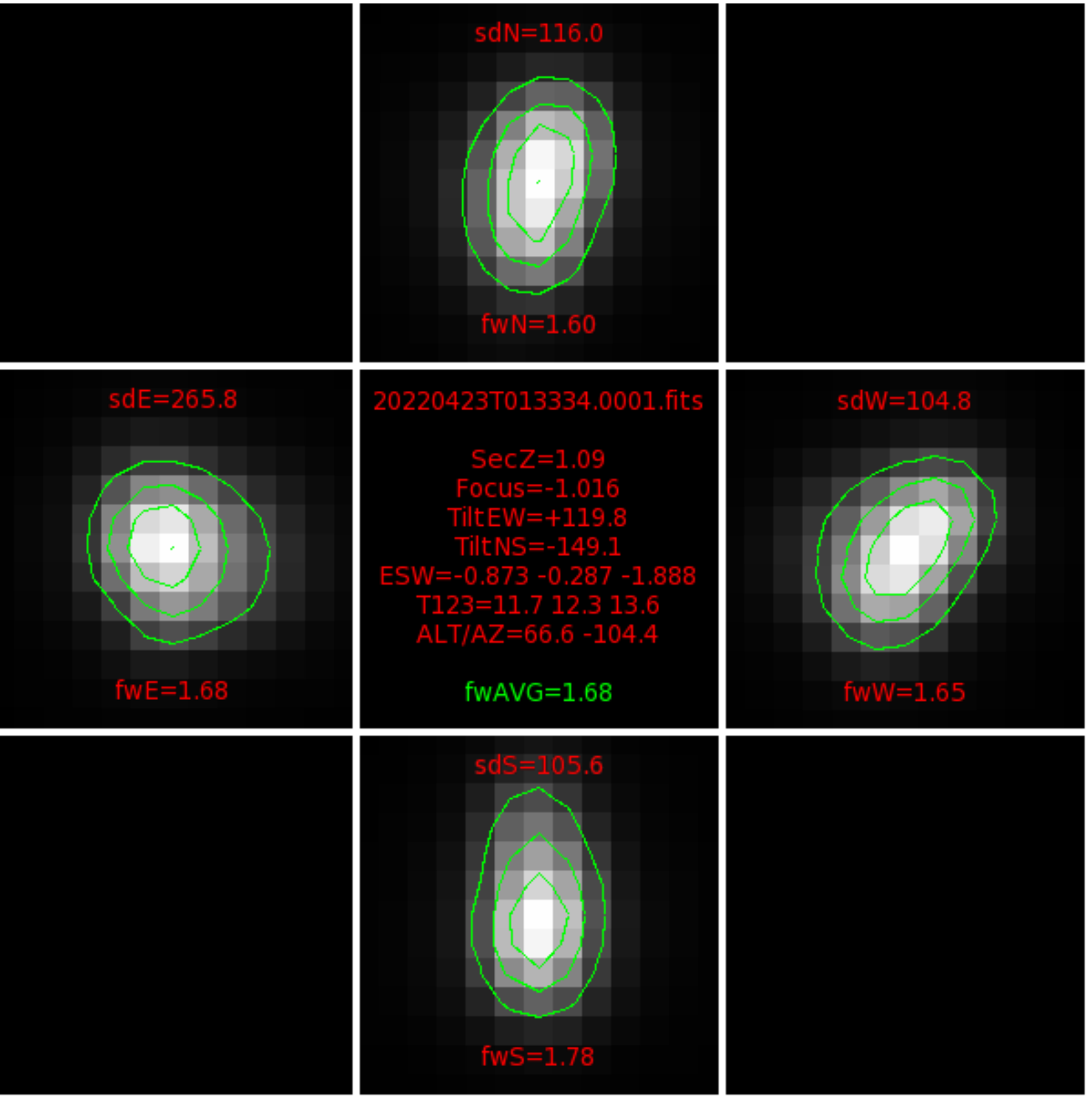
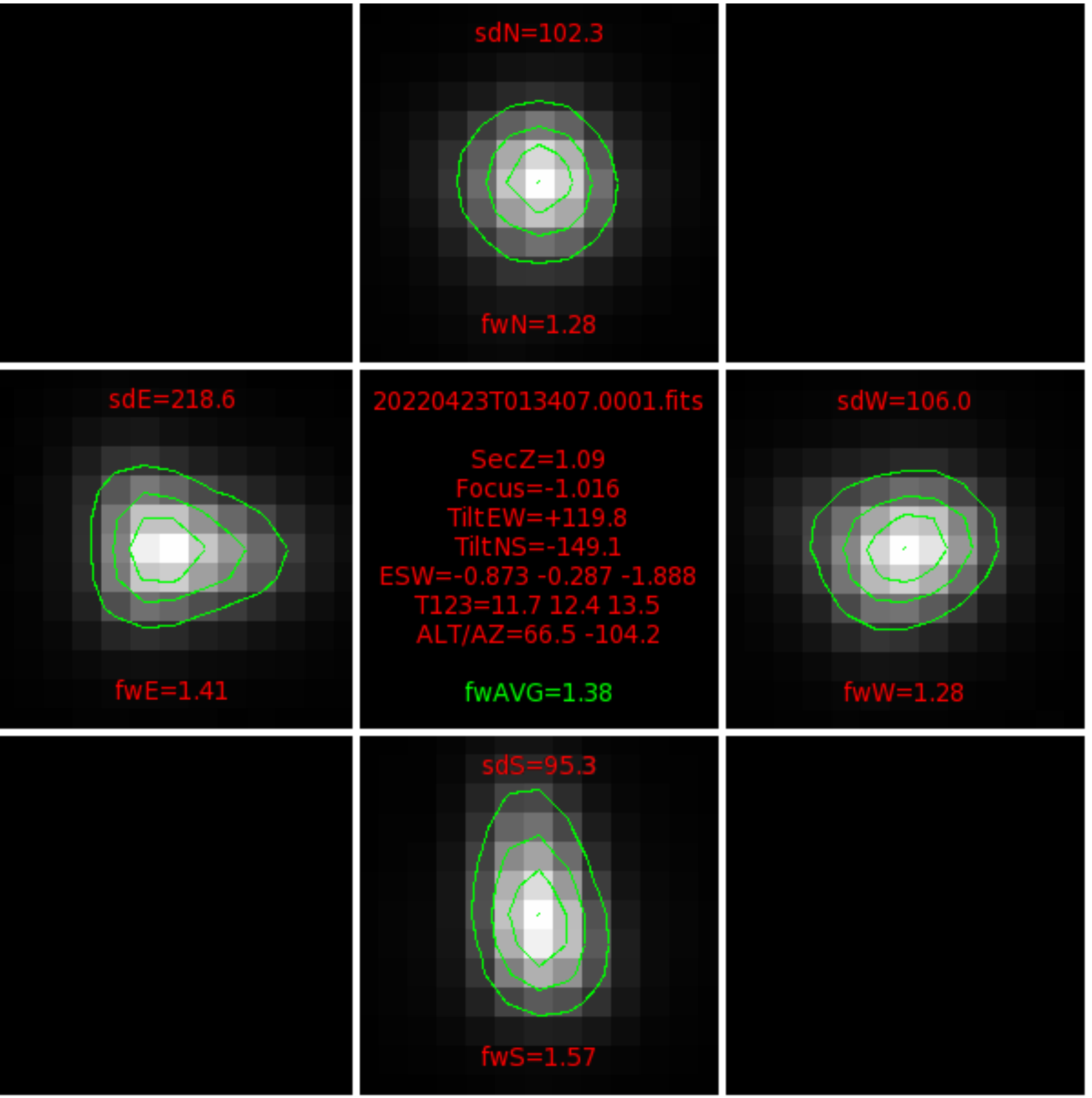
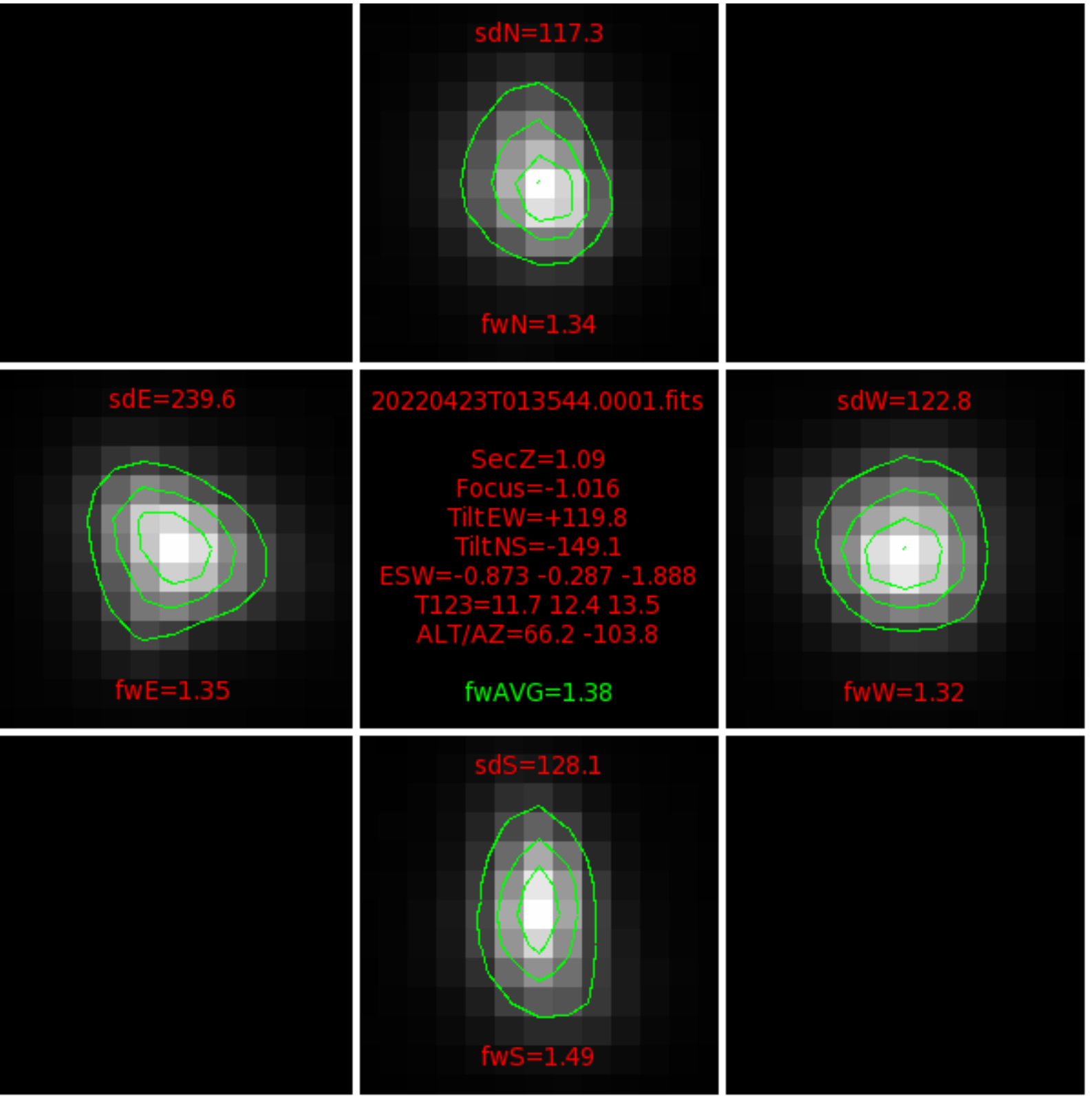

sdN=116.0
fwN=1.60
sdE=265.8
fwE=1.68
20220423T013334.0001.fits
SecZ=1.09
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.3 13.6
ALT/AZ=66.6 -104.4
fwAVG=1.68
sdW=104.8
fwW=1.65
sdS=105.6
fwS=1.78
0 0 0 0 0 0 0 0 0


sdN=102.3
fwN=1.28
sdE=218.6
fwE=1.41
20220423T013407.0001.fits
SecZ=1.09
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.4 13.5
ALT/AZ=66.5 -104.2
fwAVG=1.38
sdW=106.0
fwW=1.28
sdS=95.3
fwS=1.57
0 0 0 0 0 0 0 0 0


sdN=117.3
fwN=1.34
sdE=239.6
fwE=1.35
20220423T013544.0001.fits
SecZ=1.09
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.4 13.5
ALT/AZ=66.2 -103.8
fwAVG=1.38
sdW=122.8
fwW=1.32
sdS=128.1
fwS=1.49
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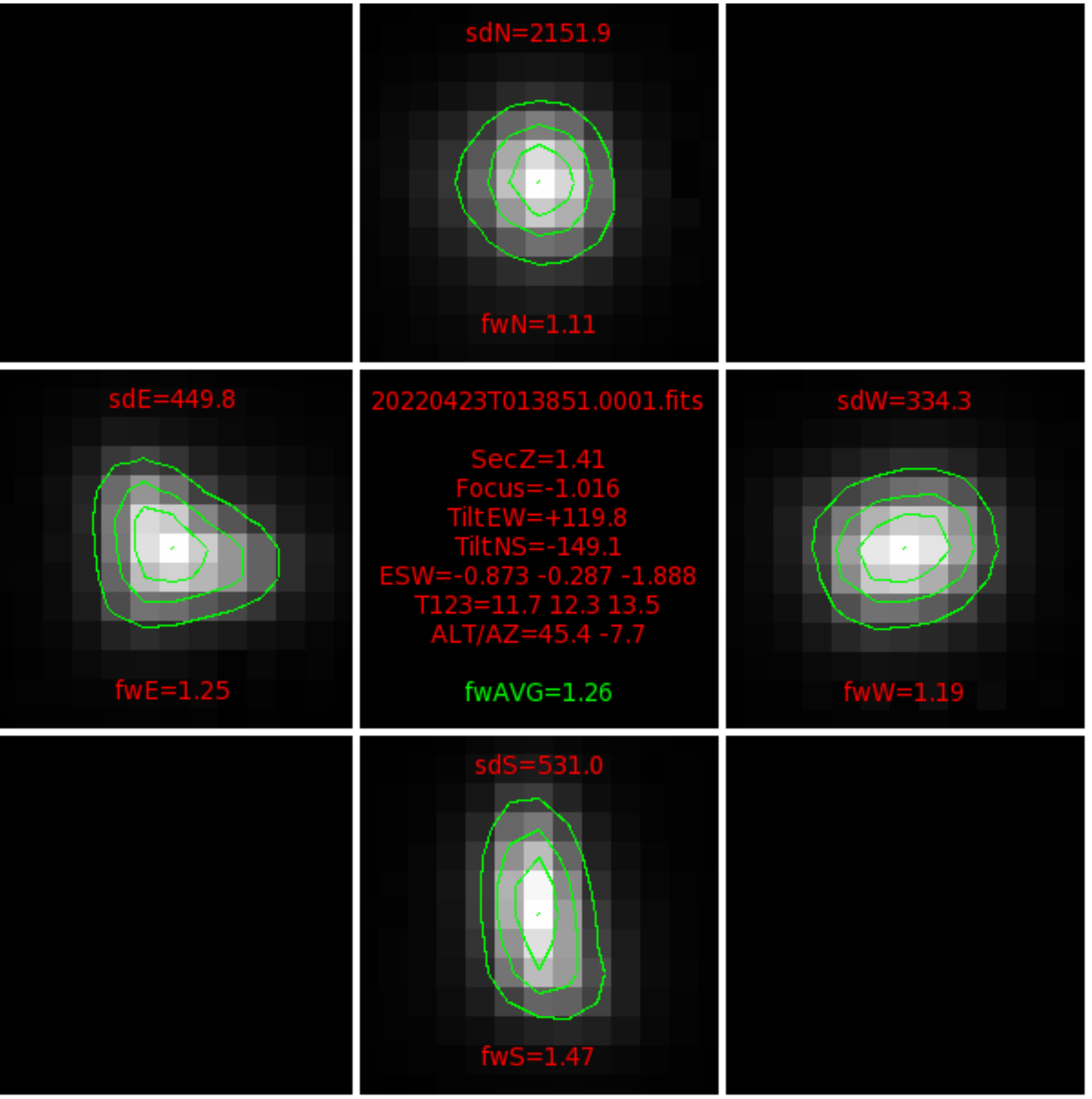
sdN=2151.9
fwN=1.11
sdE=449.8
fwE=1.25
20220423T013851.0001.fits
SecZ=1.41
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.3 13.5
ALT/AZ=45.4 -7.7
fwAVG=1.26
sdW=334.3
fwW=1.19
sdS=531.0
fwS=1.47
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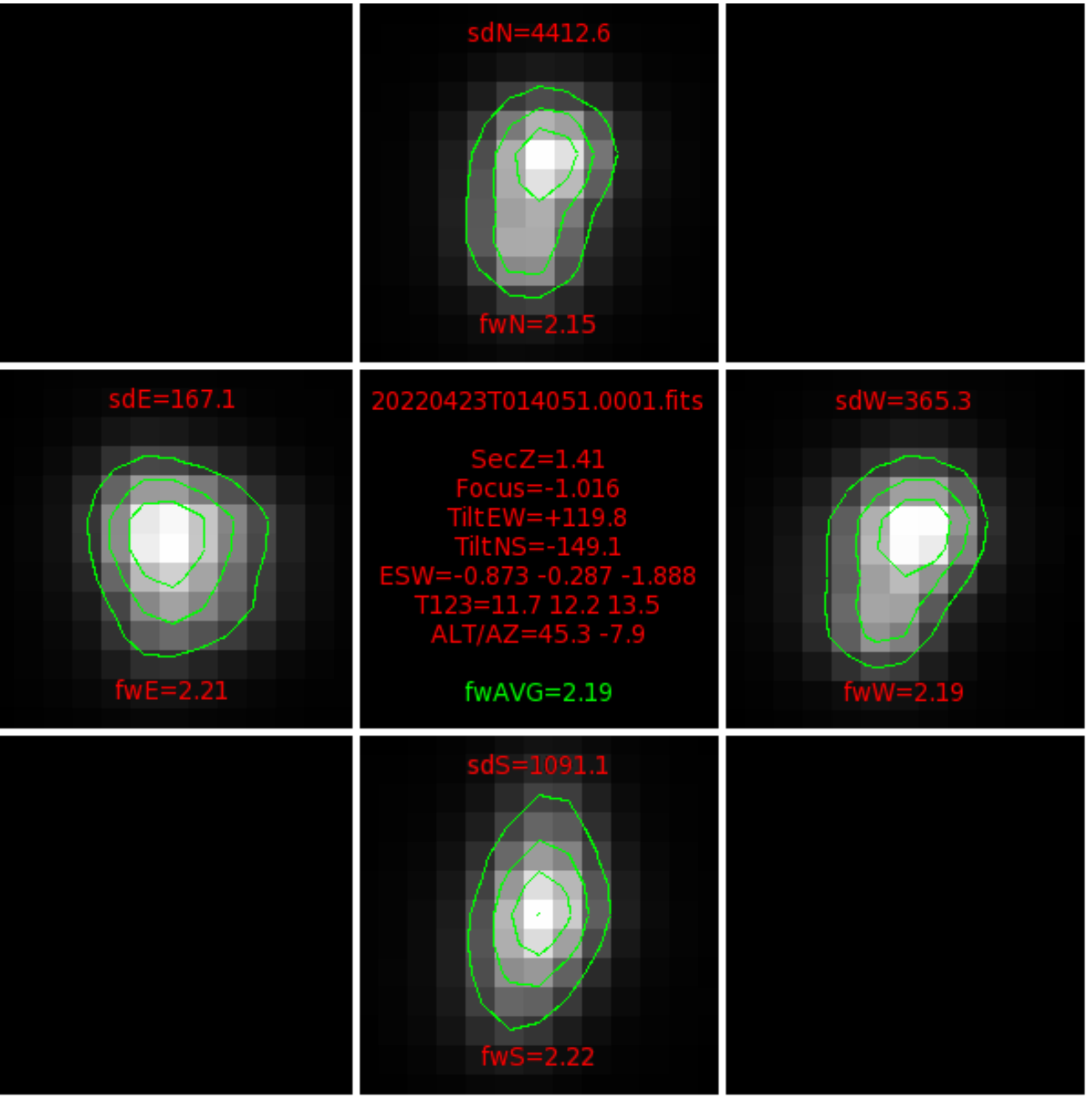
sdN=4412.6
fwN=2.15
sdE=167.1
fwE=2.21
20220423T014051.0001.fits
SecZ=1.41
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.2 13.5
ALT/AZ=45.3 -7.9
fwAVG=2.19
sdW=365.3
fwW=2.19
sdS=1091.1
fwS=2.22
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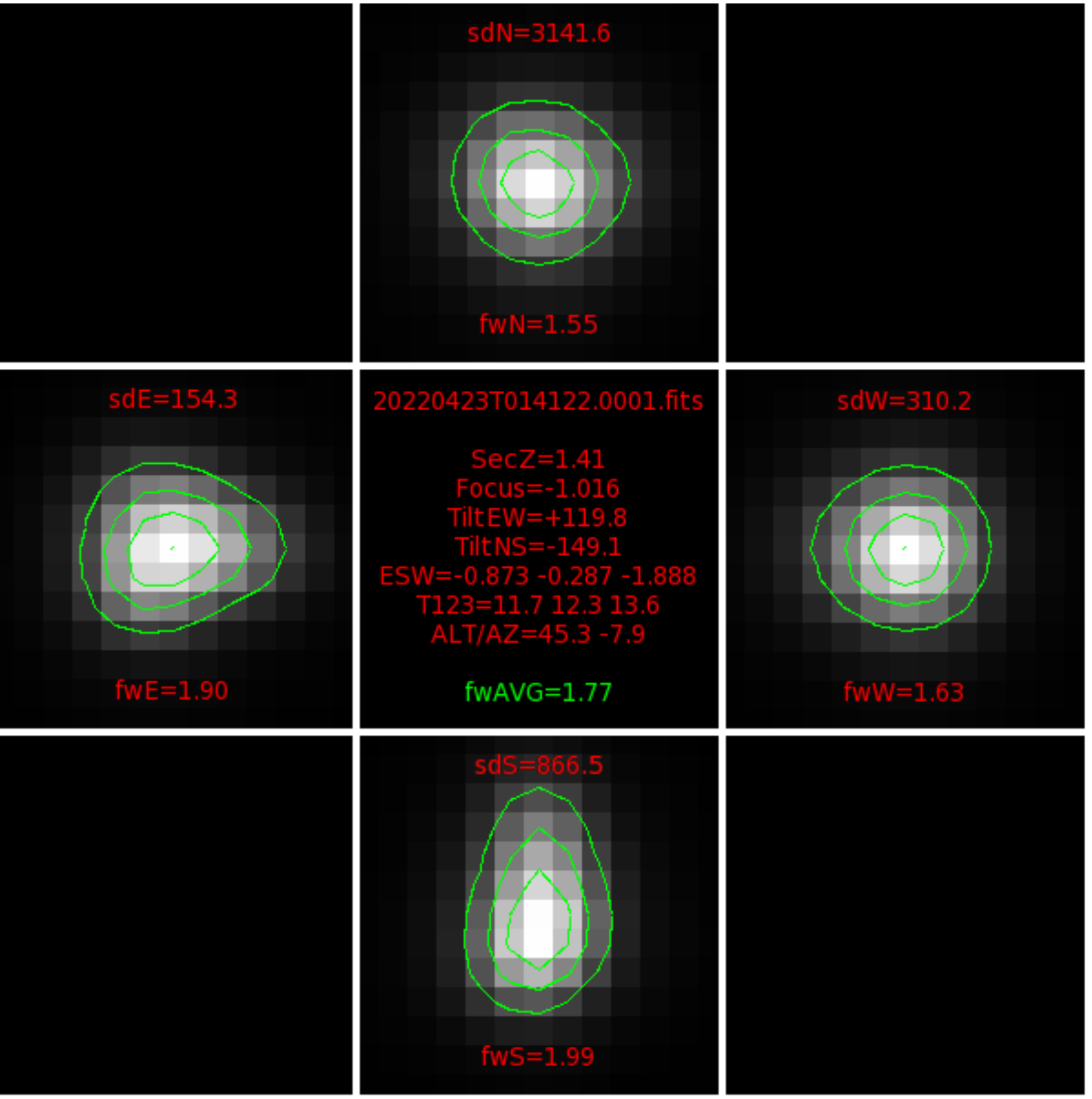
sdN=3141.6
fwN=1.55
sdE=154.3
fwE=1.90
20220423T014122.0001.fits
SecZ=1.41
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.3 13.6
ALT/AZ=45.3 -7.9
fwAVG=1.77
sdW=310.2
fwW=1.63
sdS=866.5
fwS=1.99
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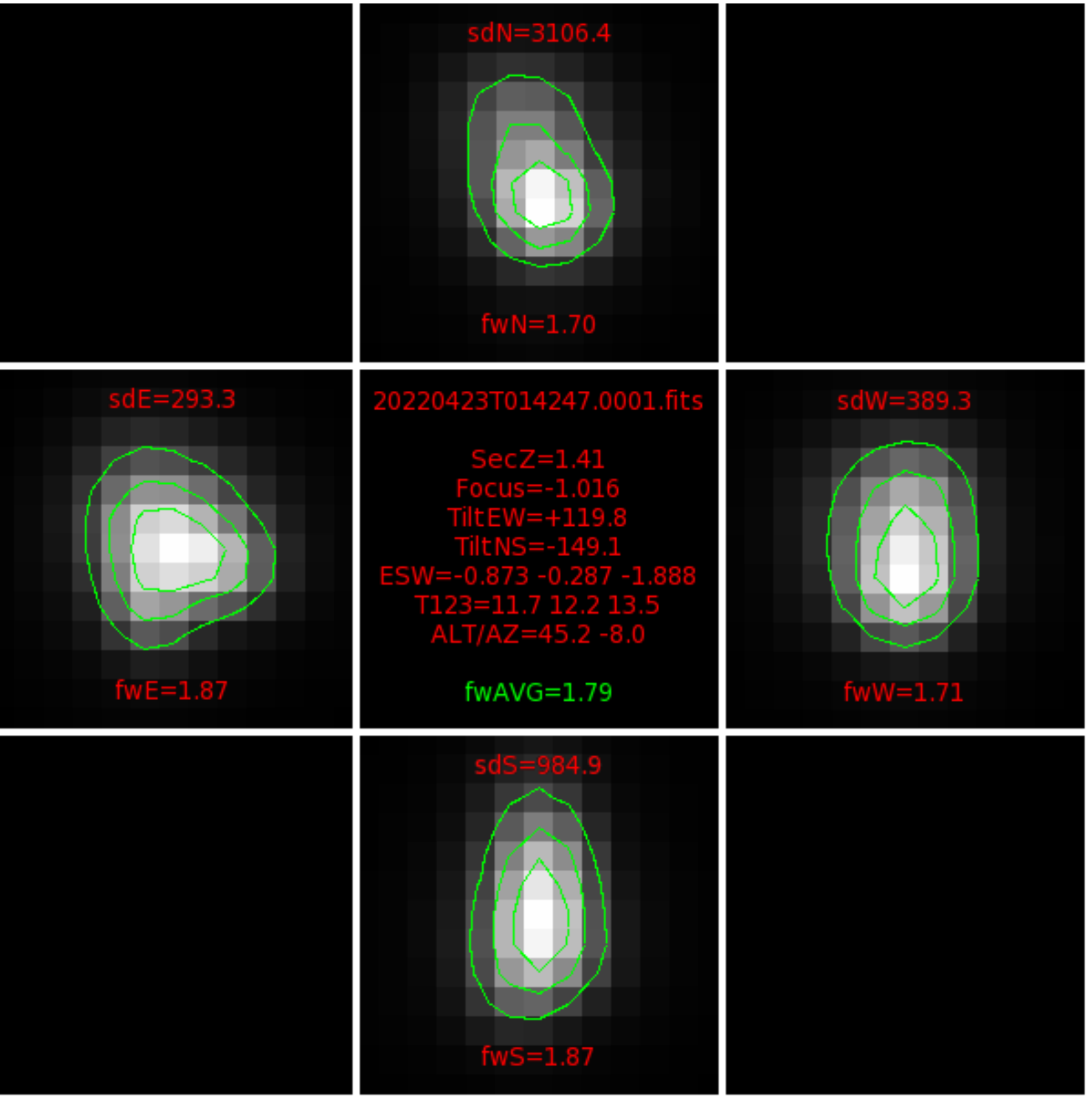
sdN=3106.4
fwN=1.70
sdE=293.3
fwE=1.87
20220423T014247.0001.fits
SecZ=1.41
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.2 13.5
ALT/AZ=45.2 -8.0
fwAVG=1.79
sdW=389.3
fwW=1.71
sdS=984.9
fwS=1.87
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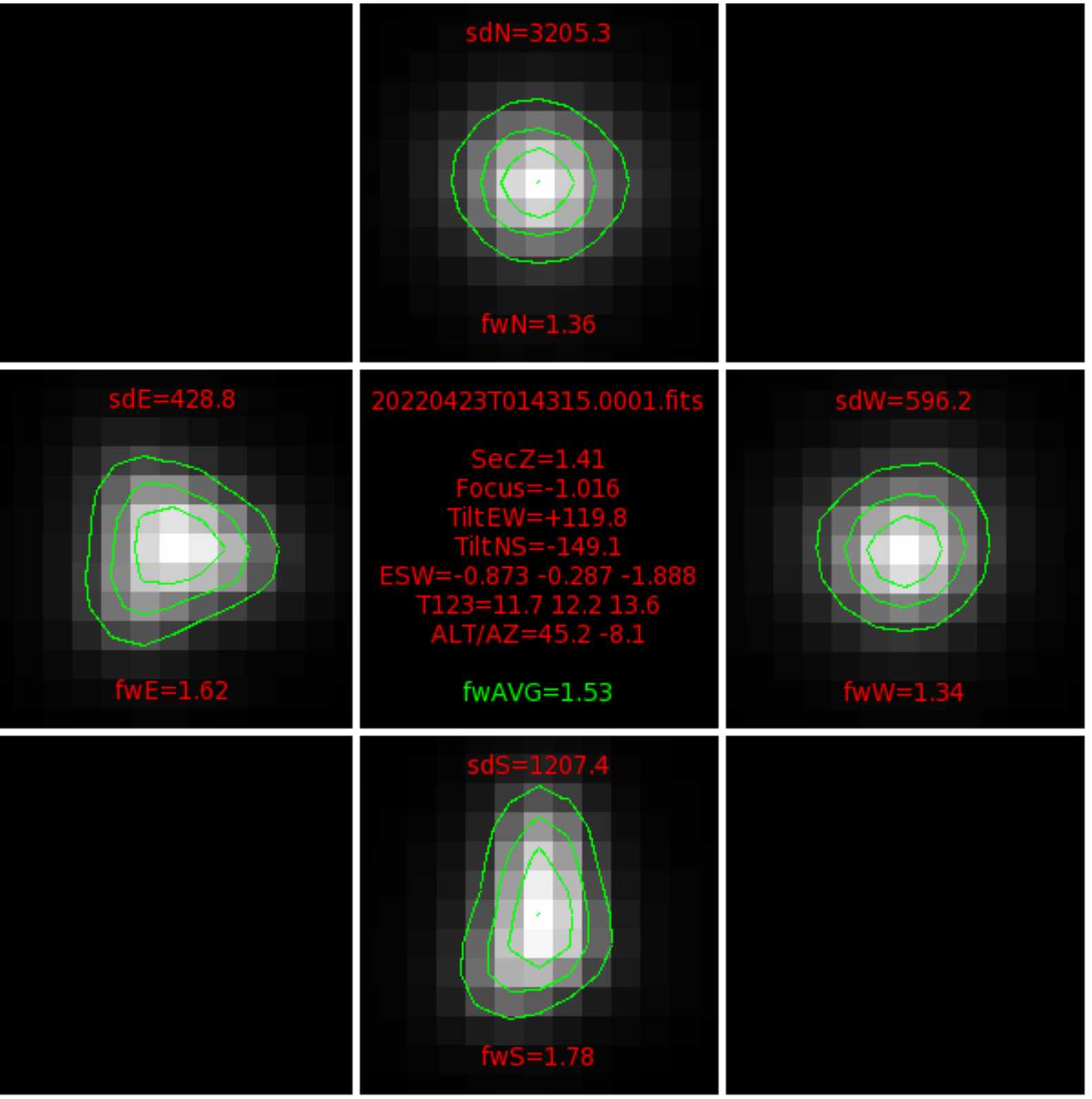
sdN=3205.3
fwN=1.36
sdE=428.8
fwE=1.62
20220423T014315.0001.fits
SecZ=1.41
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.2 13.6
ALT/AZ=45.2 -8.1
fwAVG=1.53
sdW=596.2
fwW=1.34
sdS=1207.4
fwS=1.78
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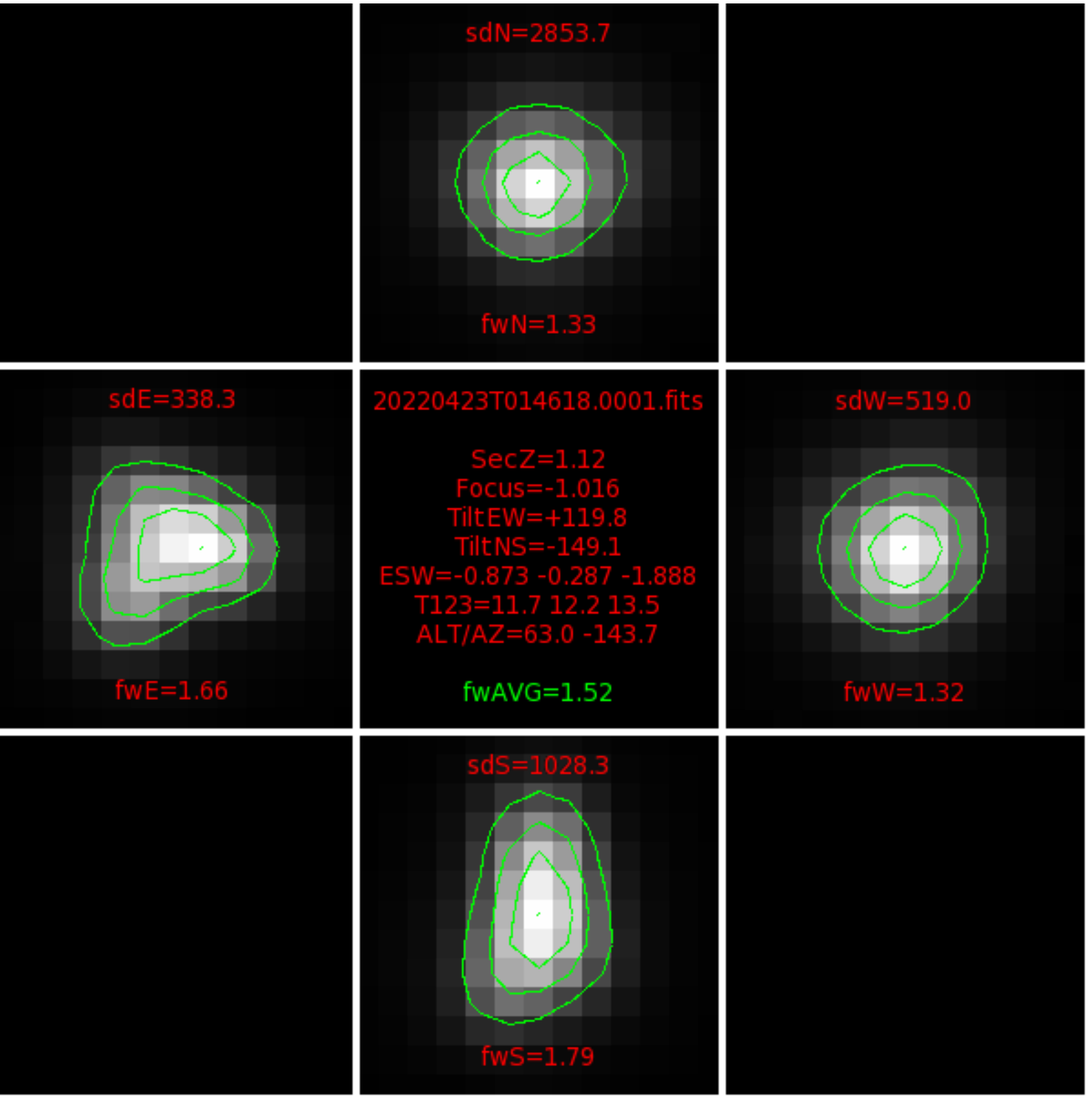
sdN=2853.7
fwN=1.33
sdE=338.3
fwE=1.66
20220423T014618.0001.fits
SecZ=1.12
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.2 13.5
ALT/AZ=63.0 -143.7
fwAVG=1.52
sdW=519.0
fwW=1.32
sdS=1028.3
fwS=1.79
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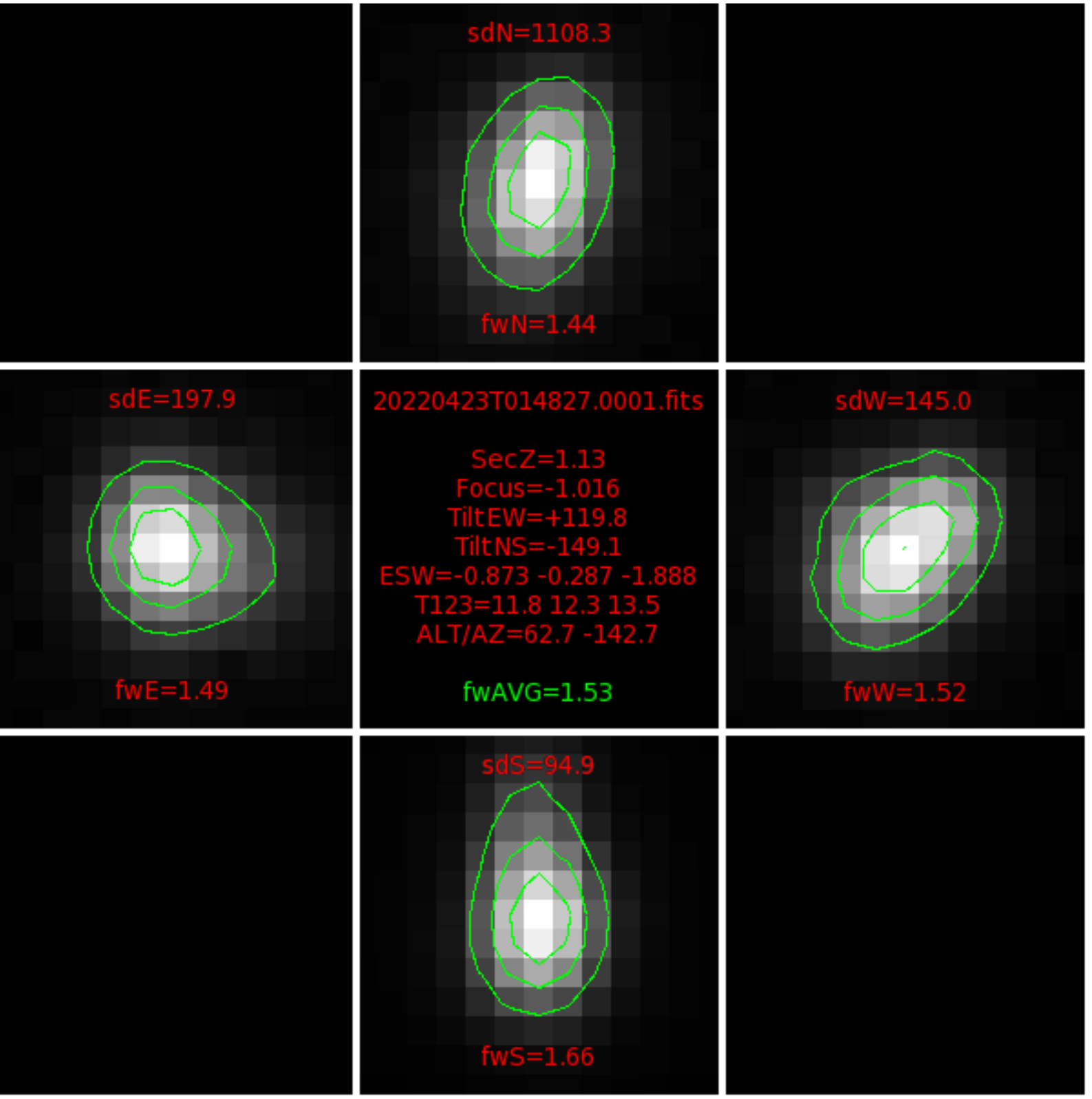
sdN=1108.3
fwN=1.44
sdE=197.9
fwE=1.49
20220423T014827.0001.fits
SecZ=1.13
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.8 12.3 13.5
ALT/AZ=62.7 -142.7
fwAVG=1.53
sdW=145.0
fwW=1.52
sdS=94.9
fwS=1.66
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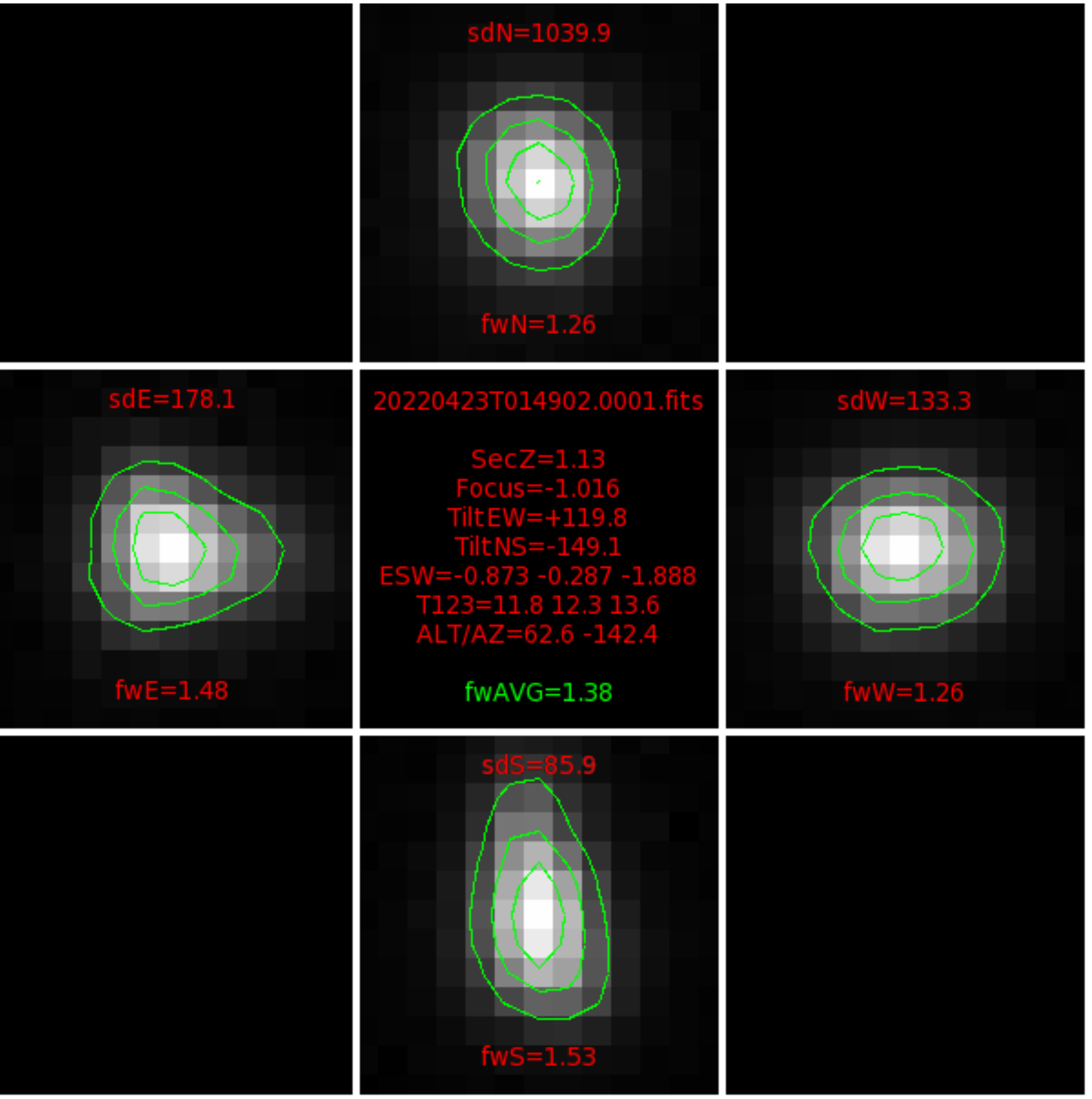
sdN=1039.9
fwN=1.26
sdE=178.1
fwE=1.48
20220423T014902.0001.fits
SecZ=1.13
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.8 12.3 13.6
ALT/AZ=62.6 -142.4
fwAVG=1.38
sdW=133.3
fwW=1.26
sdS=85.9
fwS=1.53
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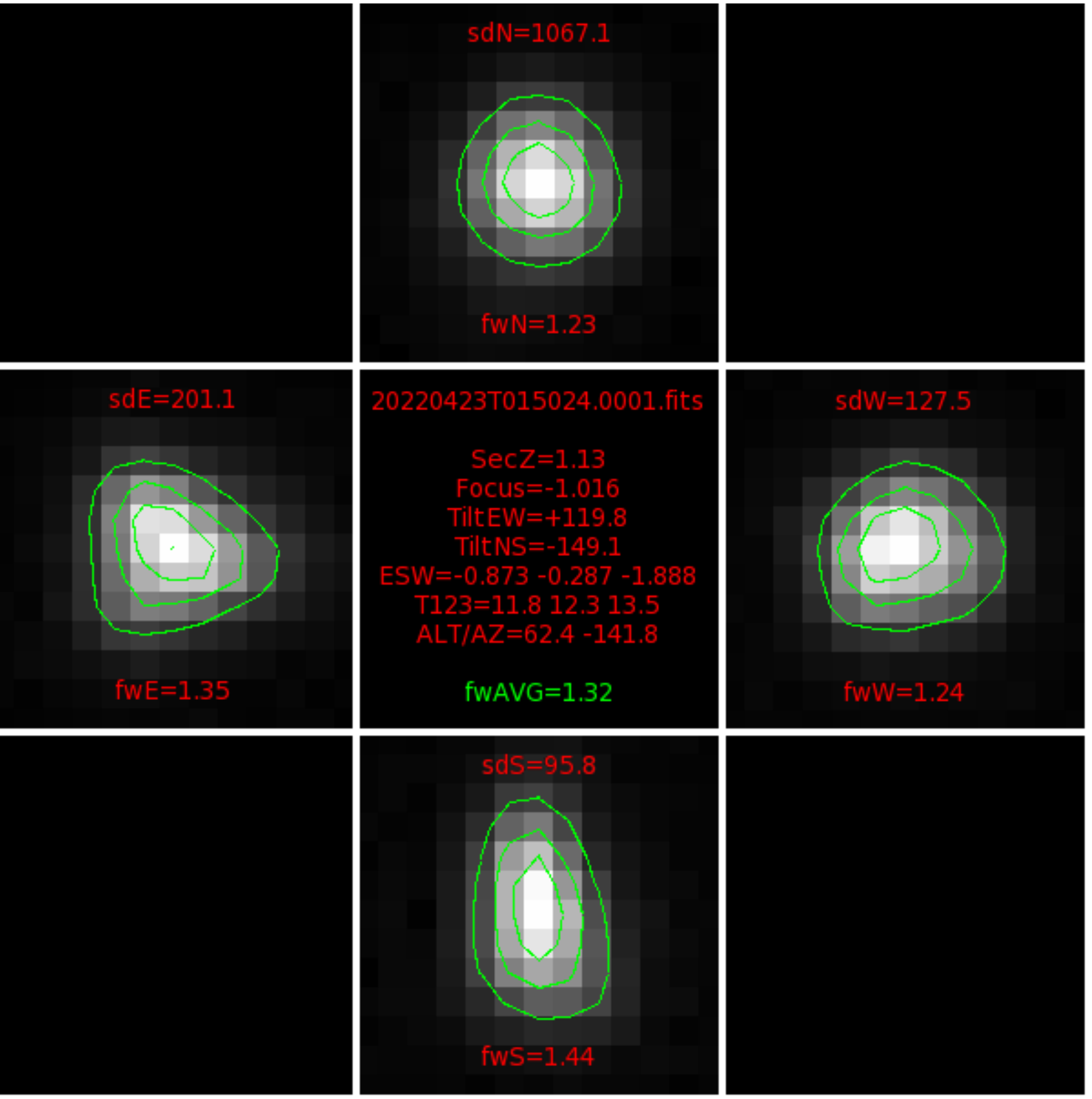
sdN=1067.1
fwN=1.23
sdE=201.1
fwE=1.35
20220423T015024.0001.fits
SecZ=1.13
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.8 12.3 13.5
ALT/AZ=62.4 -141.8
fwAVG=1.32
sdW=127.5
fwW=1.24
sdS=95.8
fwS=1.44
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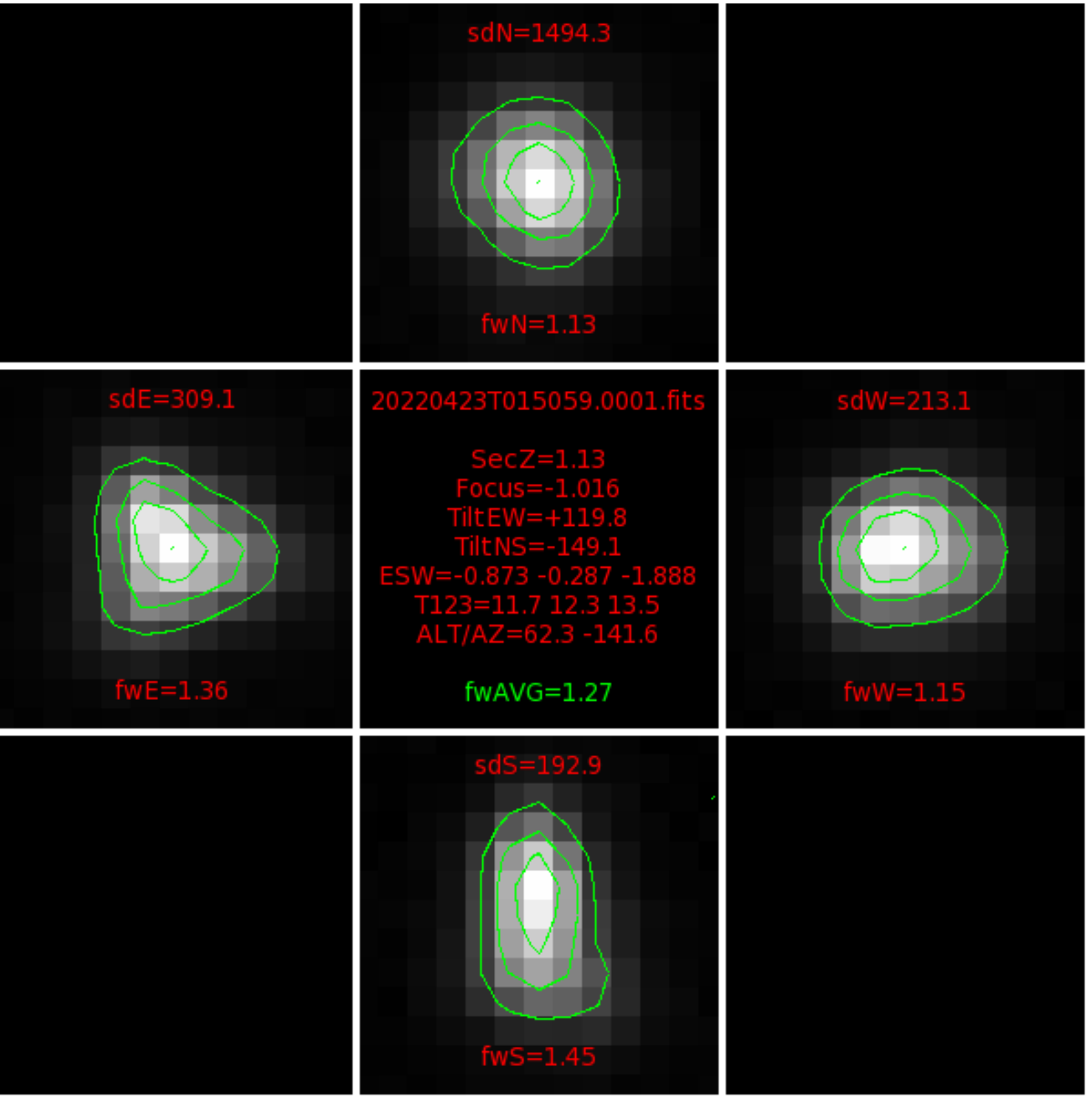
sdN=1494.3
fwN=1.13
sdE=309.1
fwE=1.36
20220423T015059.0001.fits
SecZ=1.13
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.3 13.5
ALT/AZ=62.3 -141.6
fwAVG=1.27
sdW=213.1
fwW=1.15
sdS=192.9
fwS=1.45
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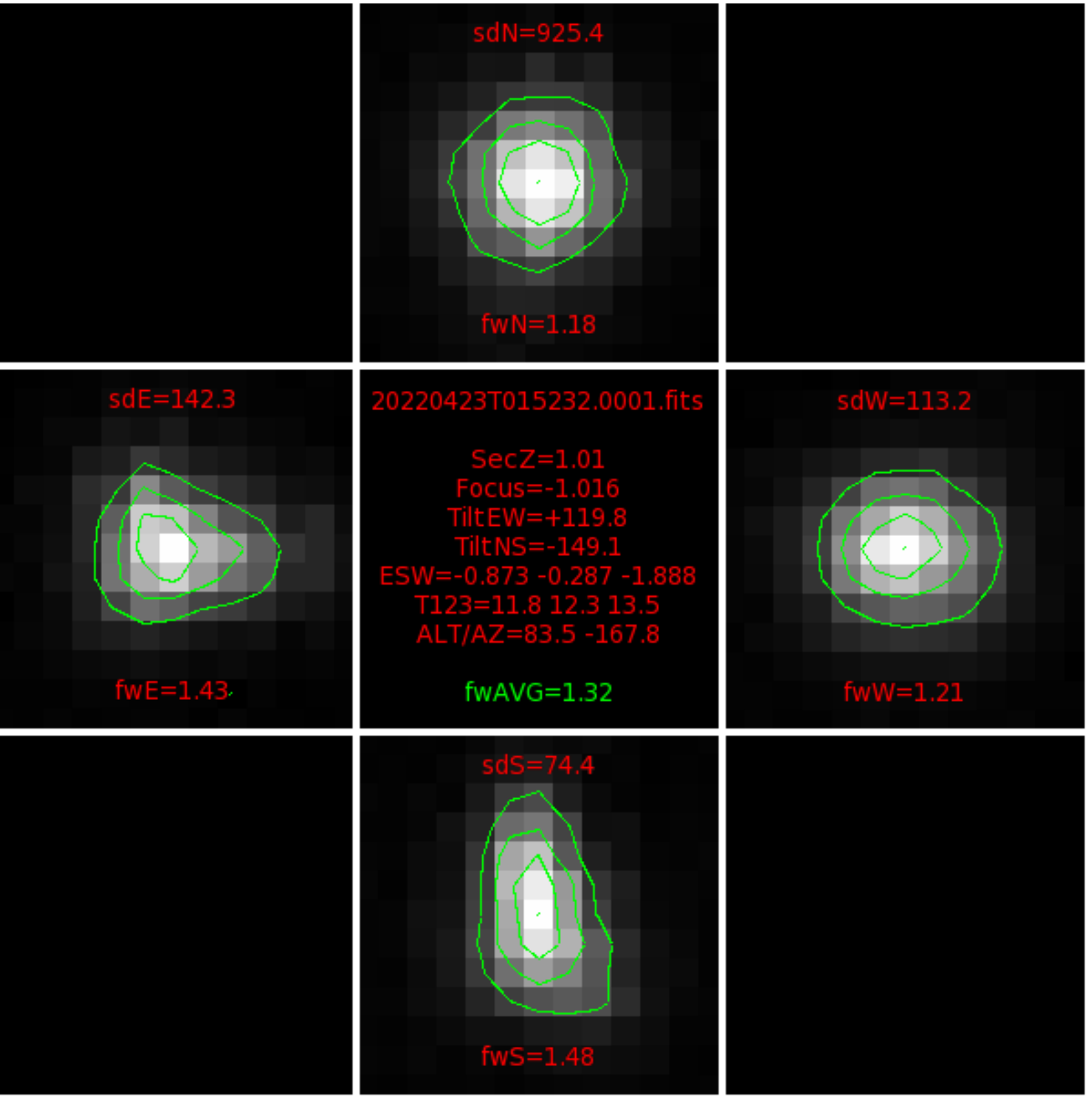
sdN=925.4
fwN=1.18
sdE=142.3
fwE=1.43
20220423T015232.0001.fits
SecZ=1.01
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.8 12.3 13.5
ALT/AZ=83.5 -167.8
fwAVG=1.32
sdW=113.2
fwW=1.21
sdS=74.4
fwS=1.48
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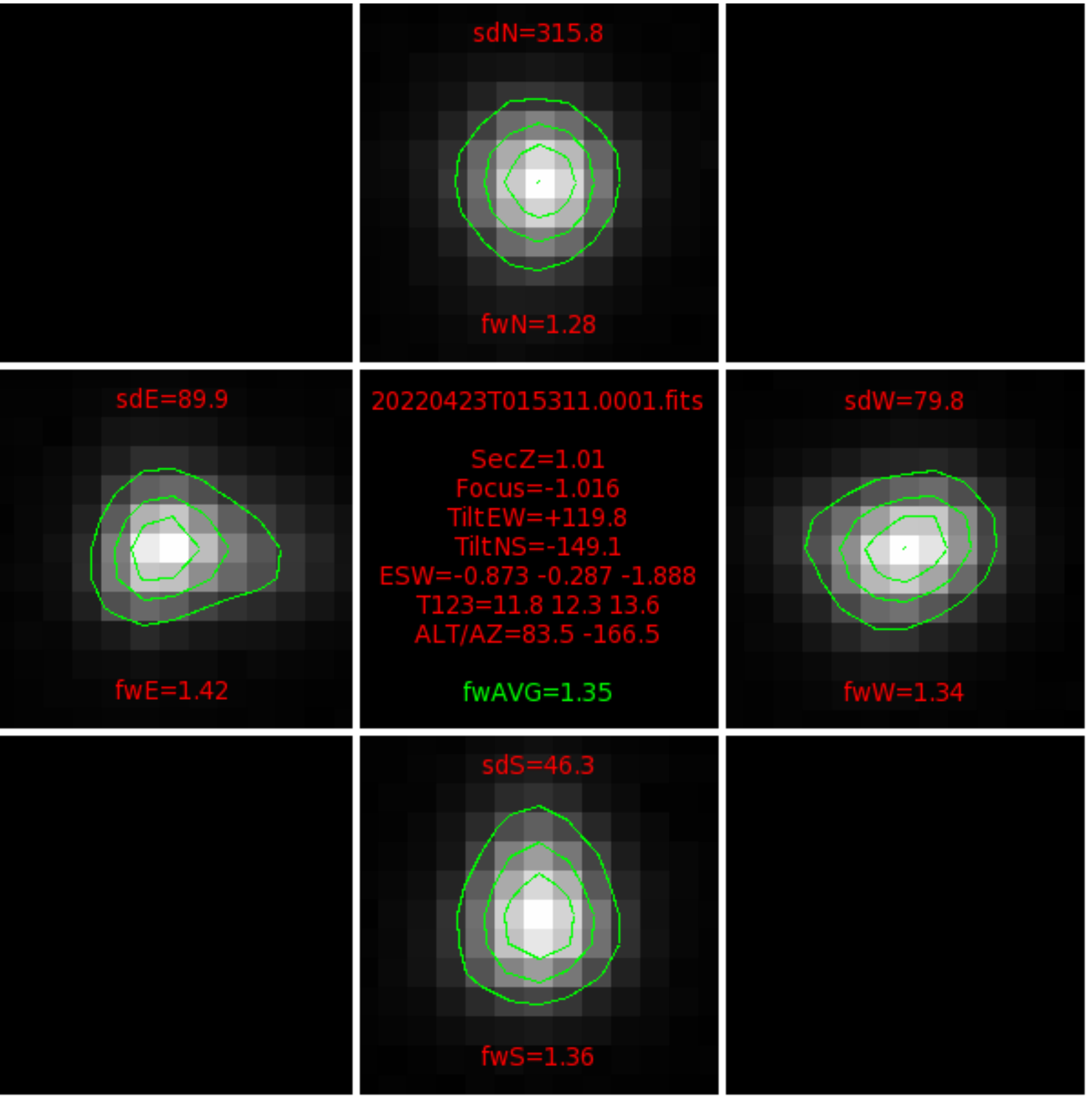
sdN=315.8
fwN=1.28
sdE=89.9
fwE=1.42
20220423T015311.0001.fits
SecZ=1.01
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.8 12.3 13.6
ALT/AZ=83.5 -166.5
fwAVG=1.35
sdW=79.8
fwW=1.34
sdS=46.3
fwS=1.36
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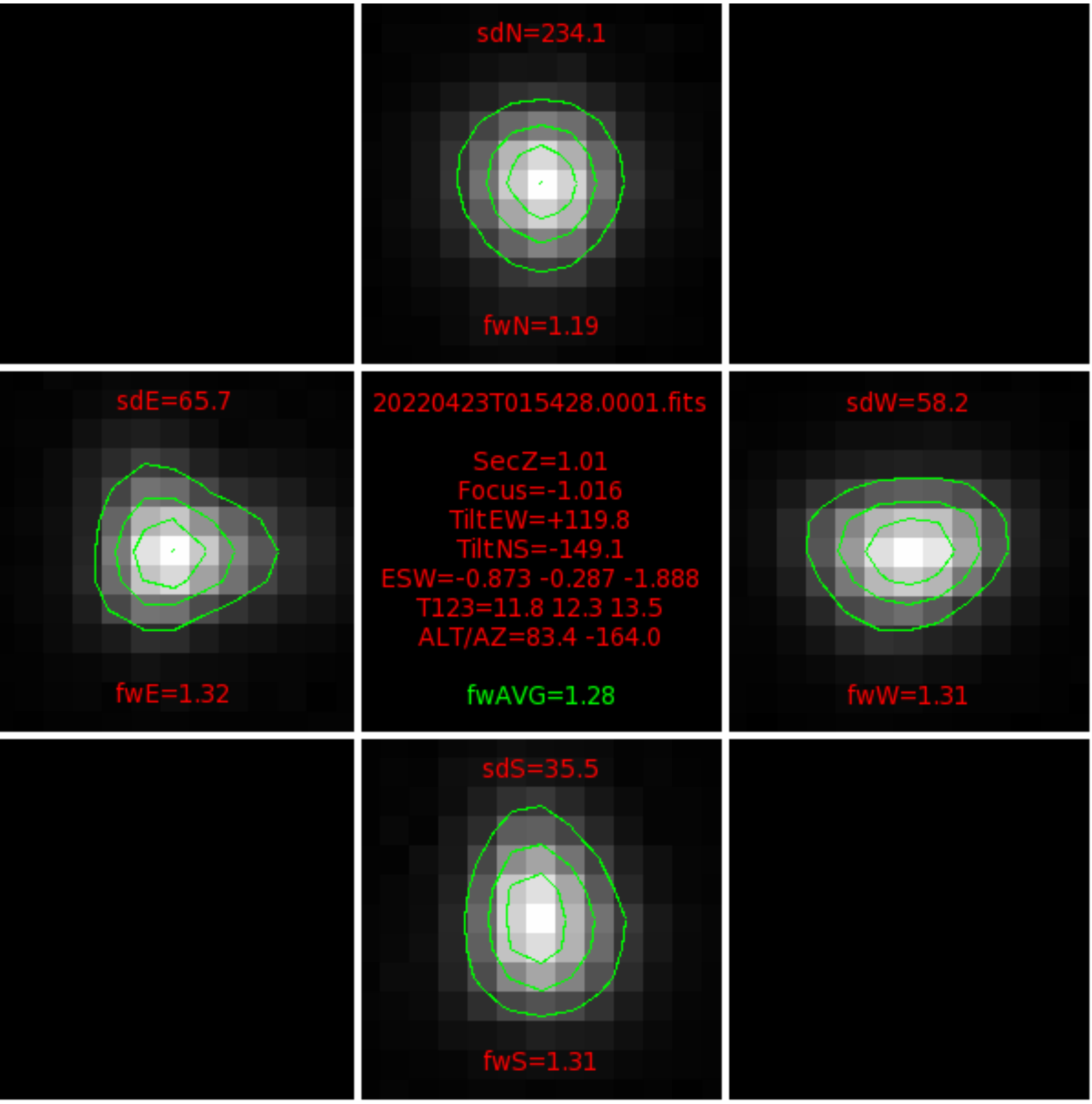
sdN=234.1
fwN=1.19
sdE=65.7
fwE=1.32
20220423T015428.0001.fits
SecZ=1.01
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.8 12.3 13.5
ALT/AZ=83.4 -164.0
fwAVG=1.28
sdW=58.2
fwW=1.31
sdS=35.5
fwS=1.31
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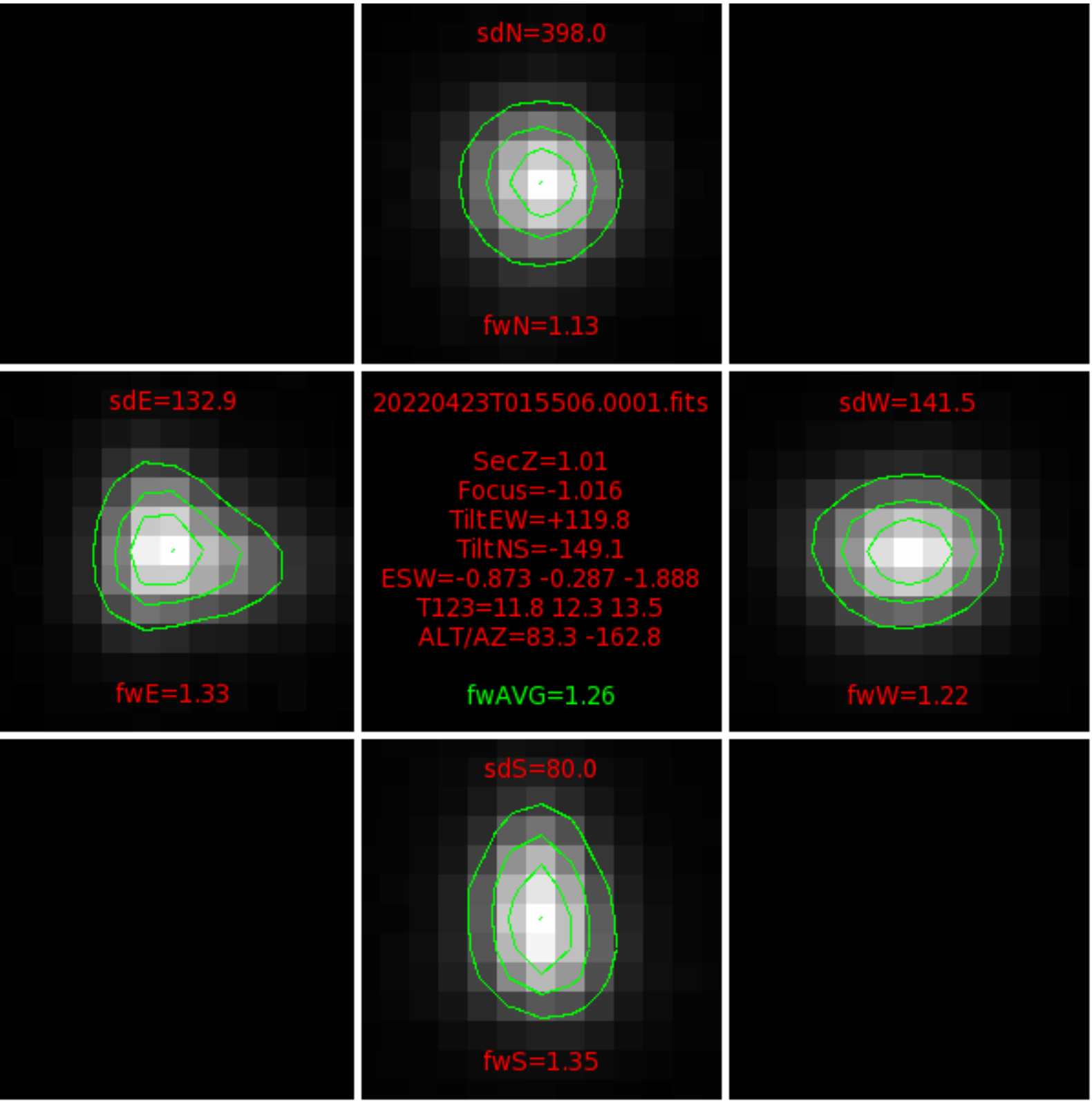
sdN=398.0
fwN=1.13
sdE=132.9
fwE=1.33
20220423T015506.0001.fits
SecZ=1.01
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.8 12.3 13.5
ALT/AZ=83.3 -162.8
fwAVG=1.26
sdW=141.5
fwW=1.22
sdS=80.0
fwS=1.35
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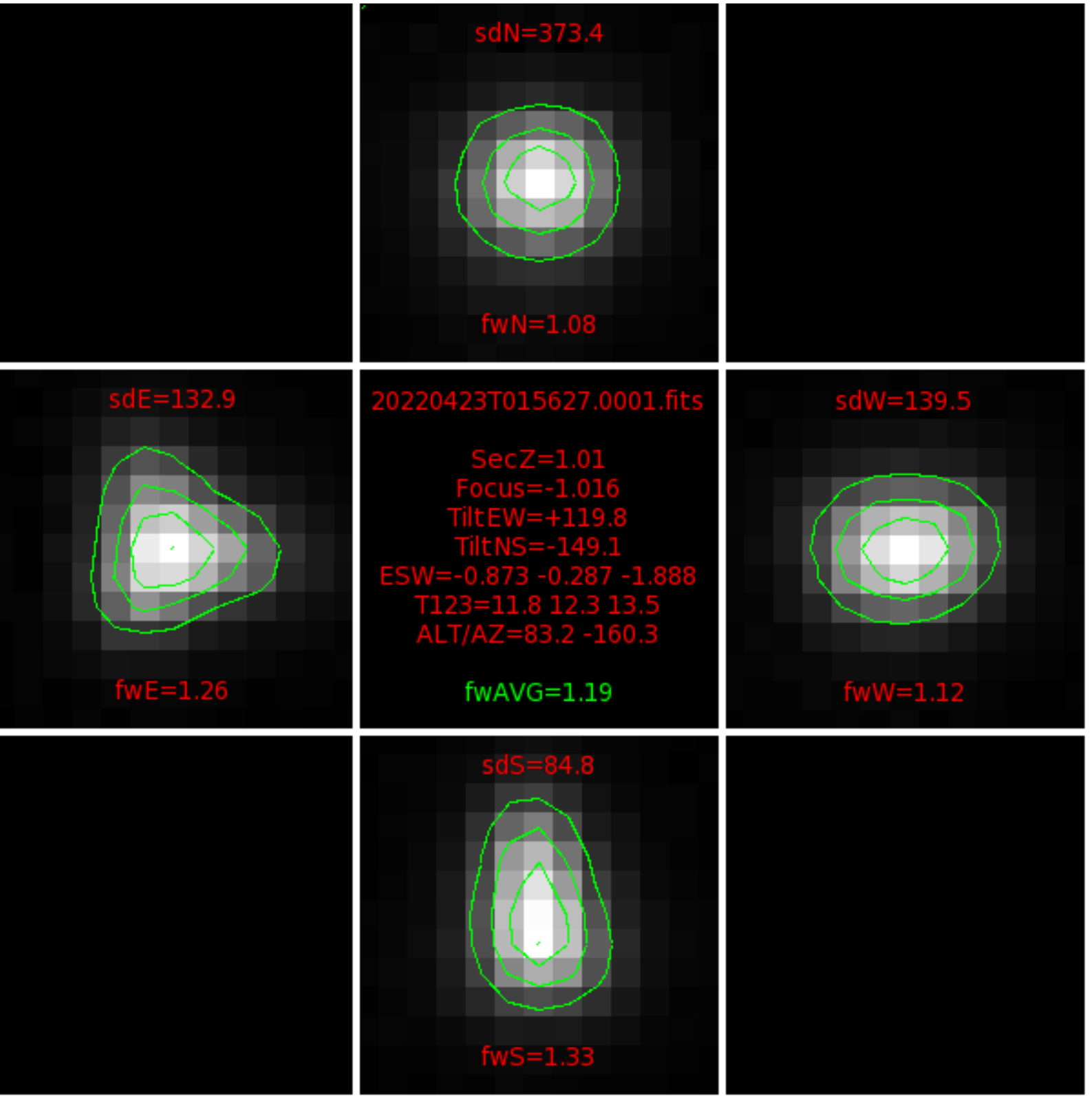
sdN=373.4
fwN=1.08
sdE=132.9
fwE=1.26
20220423T015627.0001.fits
SecZ=1.01
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.8 12.3 13.5
ALT/AZ=83.2 -160.3
fwAVG=1.19
sdW=139.5
fwW=1.12
sdS=84.8
fwS=1.33
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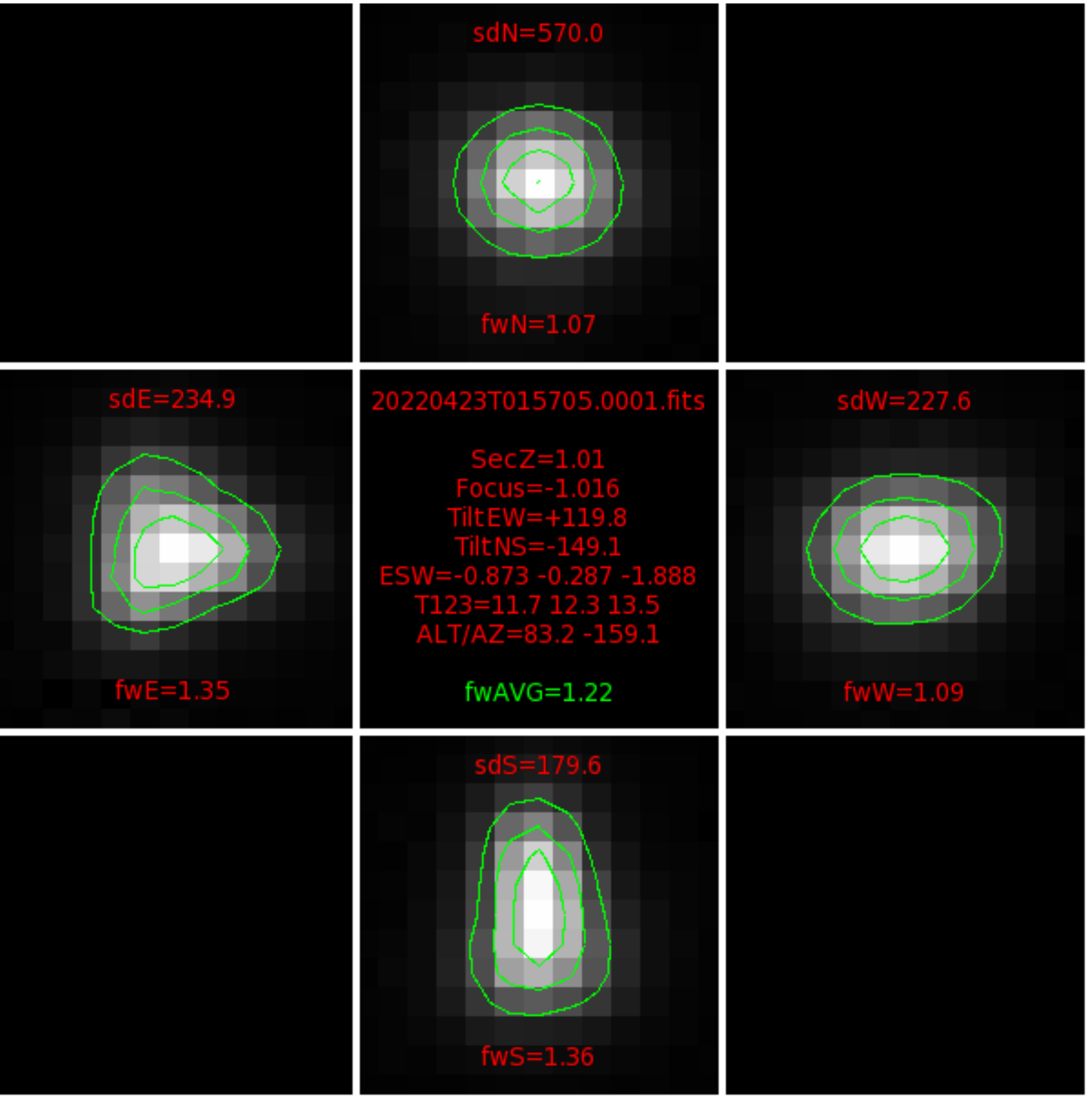
sdN=570.0
fwN=1.07
sdE=234.9
fwE=1.35
20220423T015705.0001.fits
SecZ=1.01
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.3 13.5
ALT/AZ=83.2 -159.1
fwAVG=1.22
sdW=227.6
fwW=1.09
sdS=179.6
fwS=1.36
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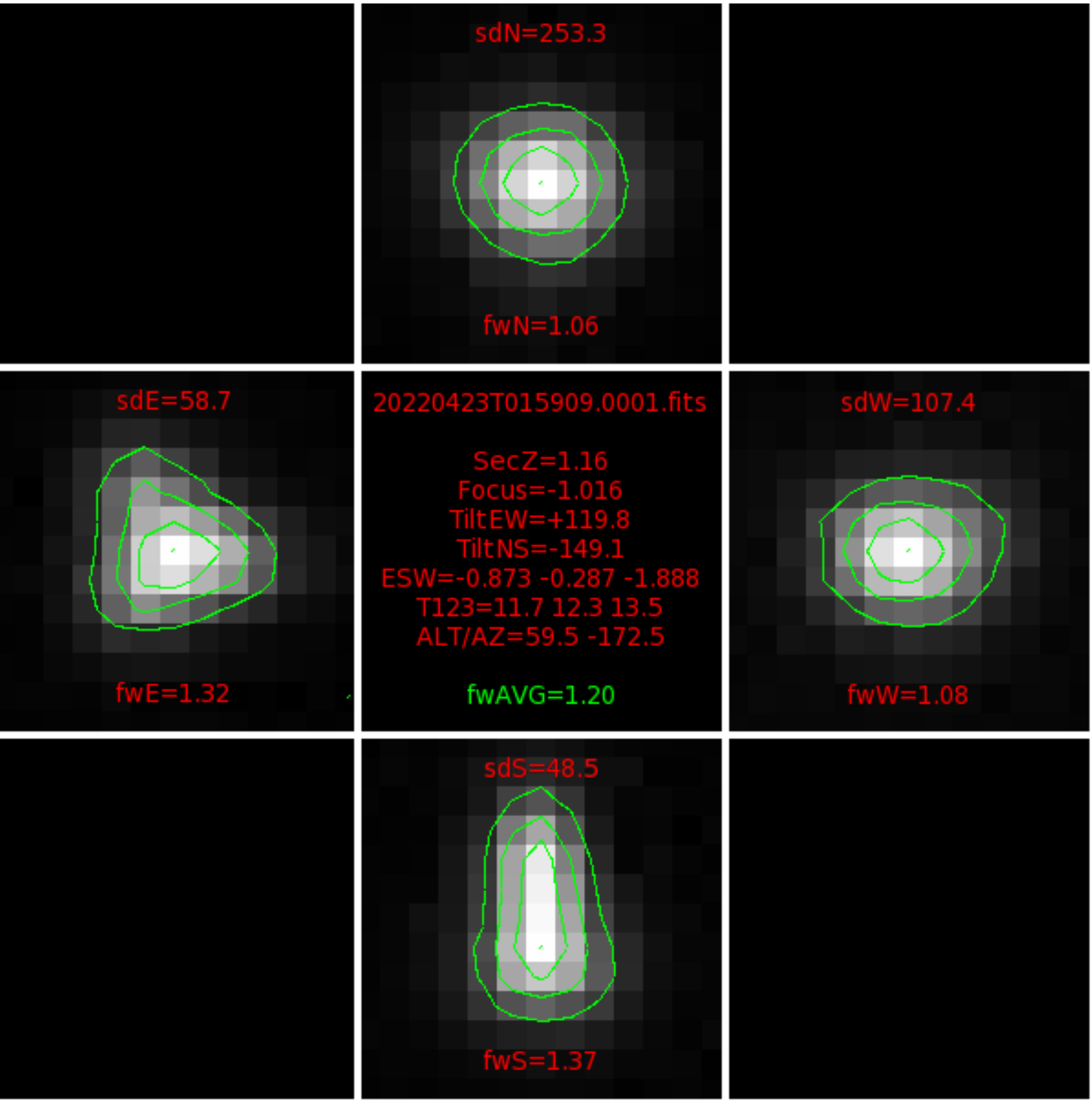
sdN=253.3
fwN=1.06
sdE=58.7
fwE=1.32
20220423T015909.0001.fits
SecZ=1.16
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.3 13.5
ALT/AZ=59.5 -172.5
fwAVG=1.20
sdW=107.4
fwW=1.08
sdS=48.5
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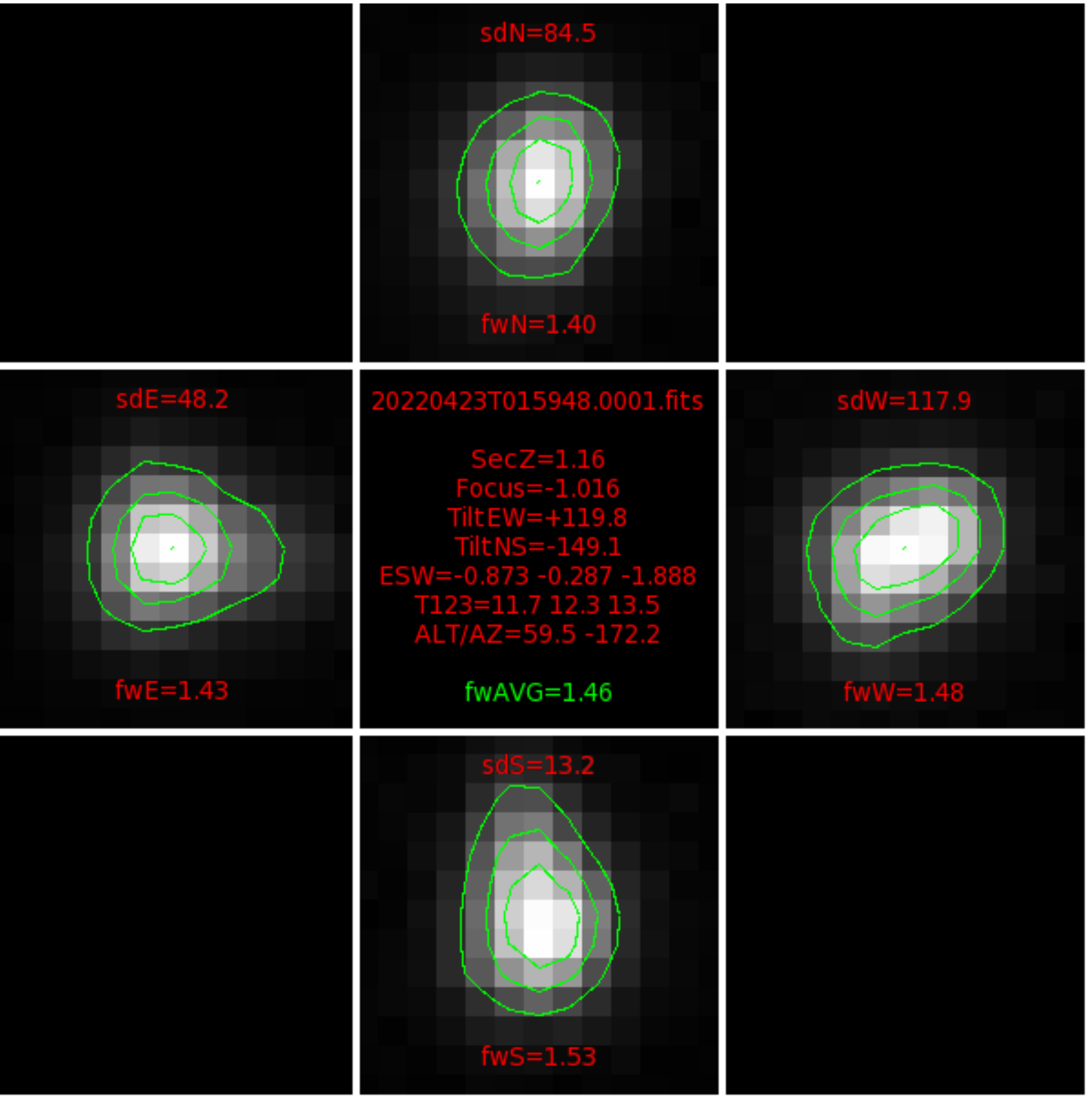
0 0 0 0 0 0 0 0 0


sdN=84.5
fwN=1.40
sdE=48.2
fwE=1.43
20220423T015948.0001.fits
SecZ=1.16
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.3 13.5
ALT/AZ=59.5 -172.2
fwAVG=1.46
sdW=117.9
fwW=1.48
sdS=13.2
fwS=1.53
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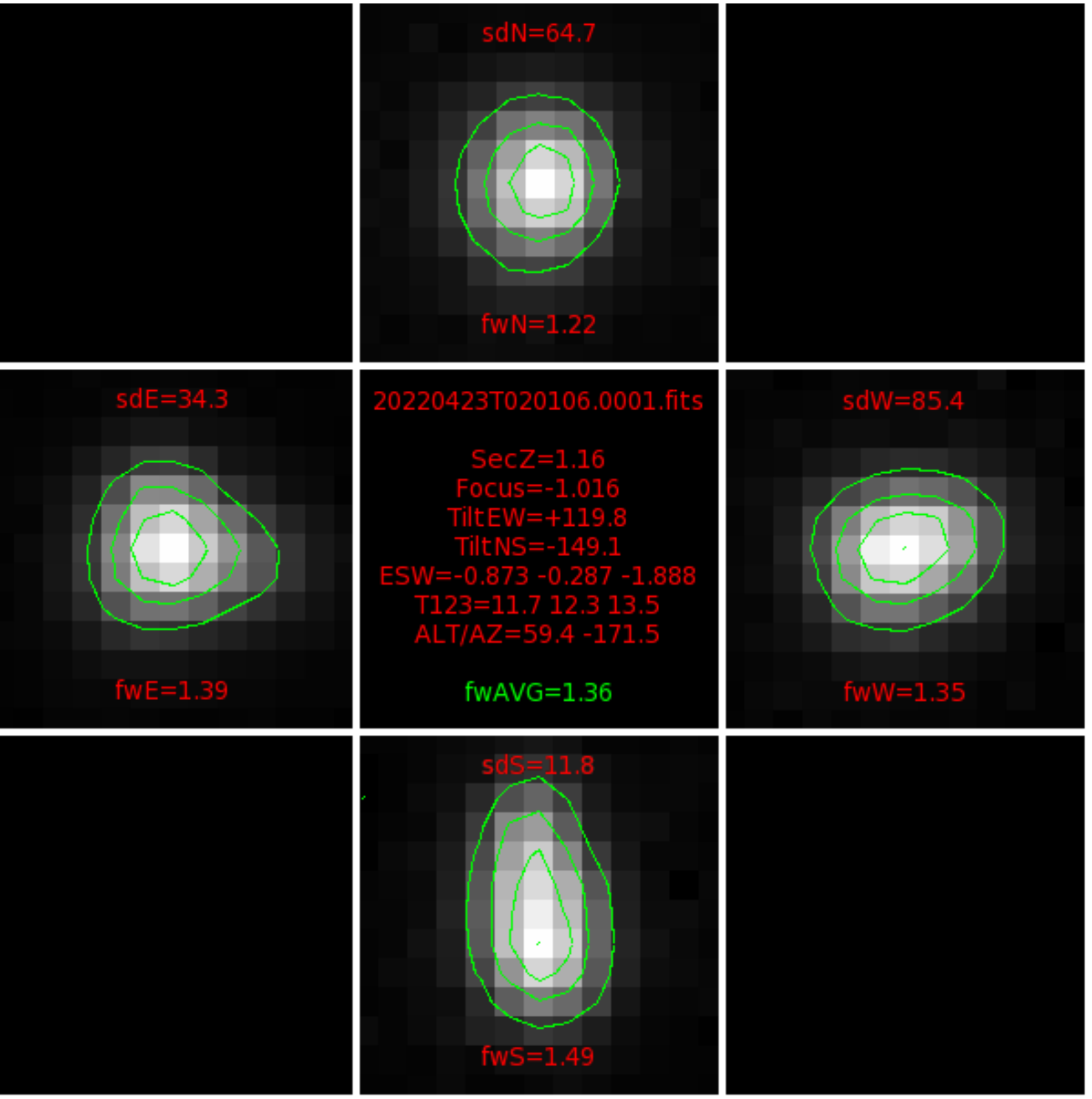
sdN=64.7
fwN=1.22
sdE=34.3
fwE=1.39
20220423T020106.0001.fits
SecZ=1.16
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.3 13.5
ALT/AZ=59.4 -171.5
fwAVG=1.36
sdW=85.4
fwW=1.35
sdS=11.8
fwS=1.49
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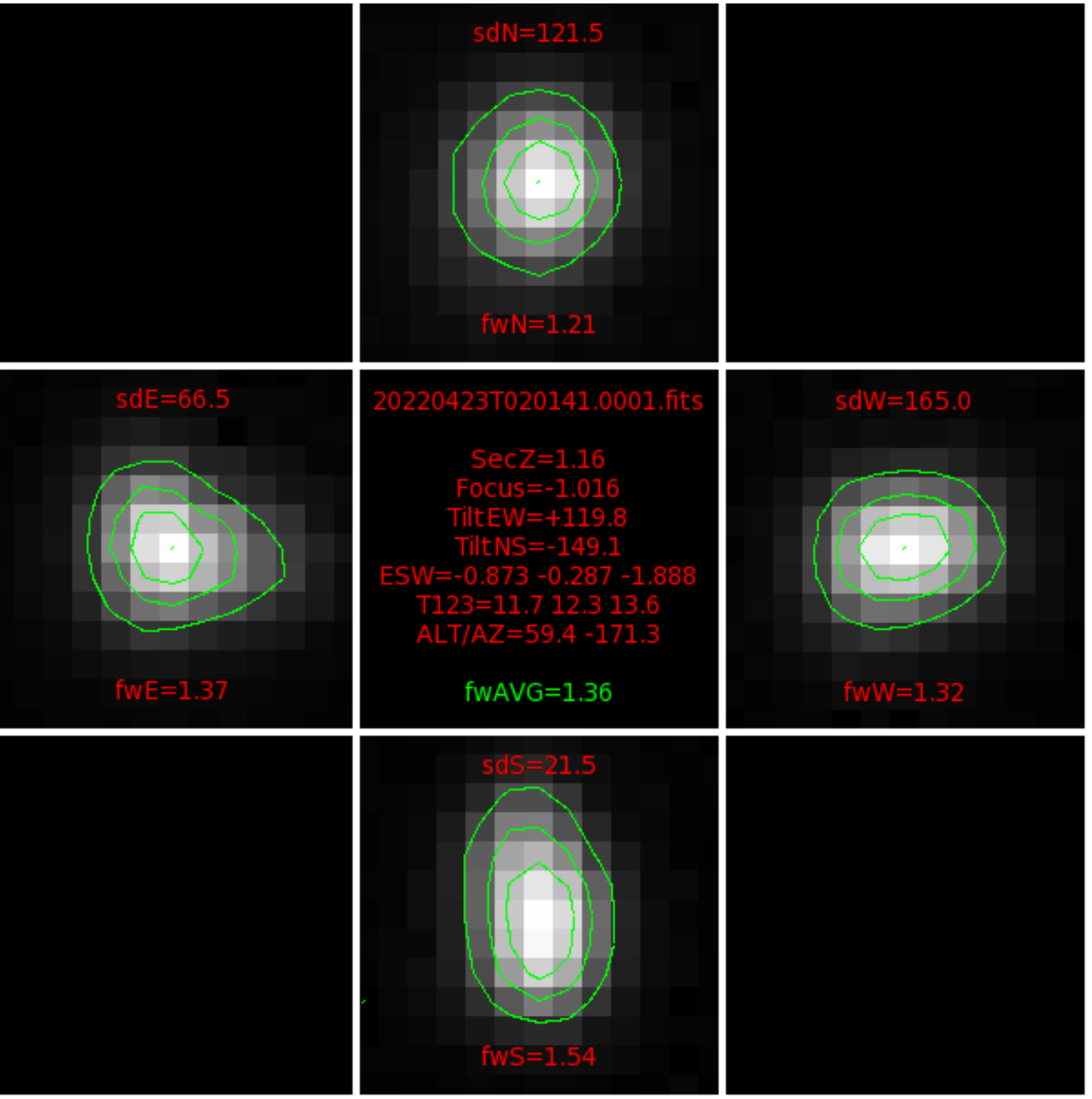
sdN=121.5
fwN=1.21
sdE=66.5
fwE=1.37
20220423T020141.0001.fits
SecZ=1.16
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.3 13.6
ALT/AZ=59.4 -171.3
fwAVG=1.36
sdW=165.0
fwW=1.32
sdS=21.5
fwS=1.54
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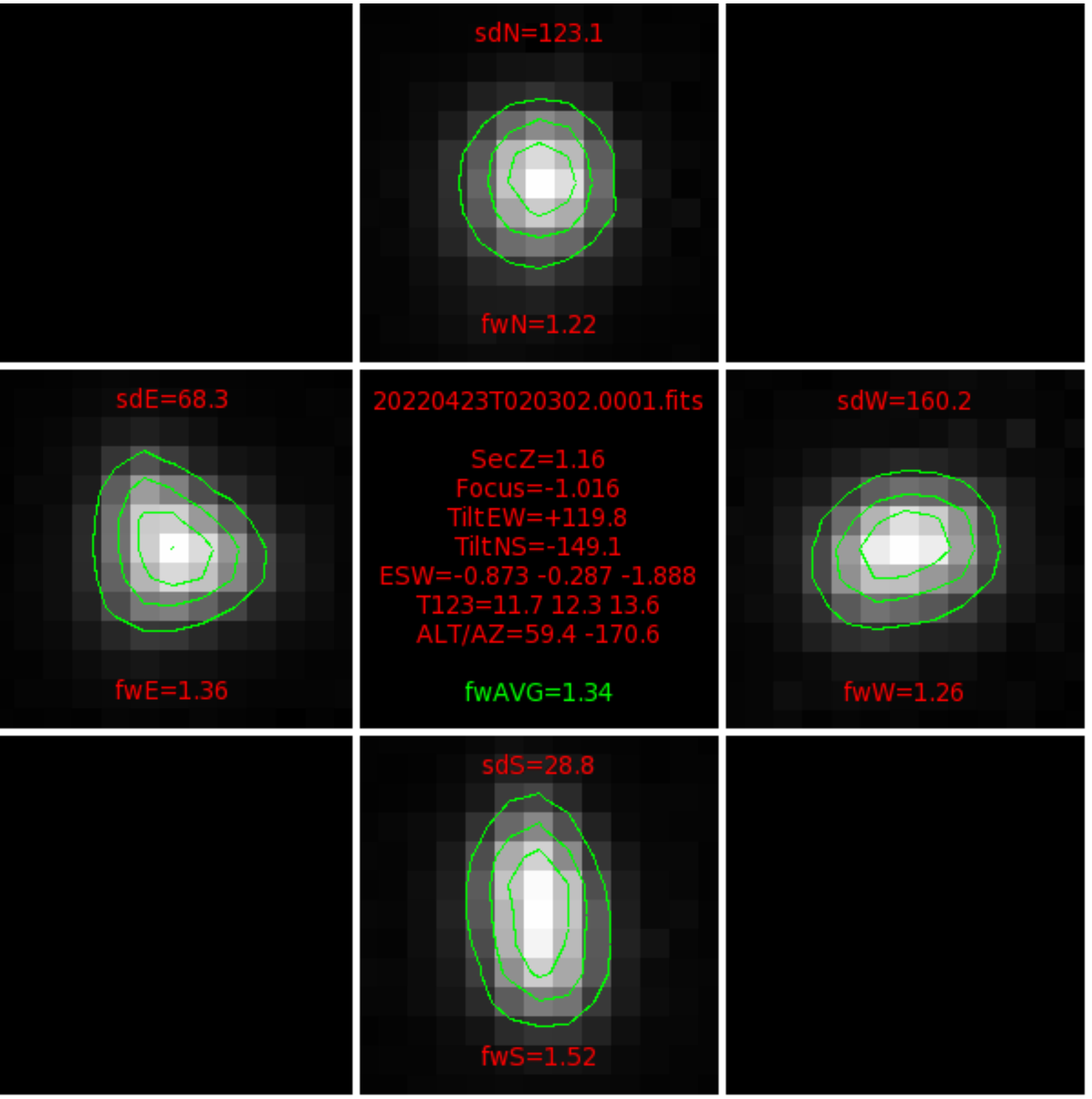
sdN=123.1
fwN=1.22
sdE=68.3
fwE=1.36
20220423T020302.0001.fits
SecZ=1.16
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.3 13.6
ALT/AZ=59.4 -170.6
fwAVG=1.34
sdW=160.2
fwW=1.26
sdS=28.8
fwS=1.52
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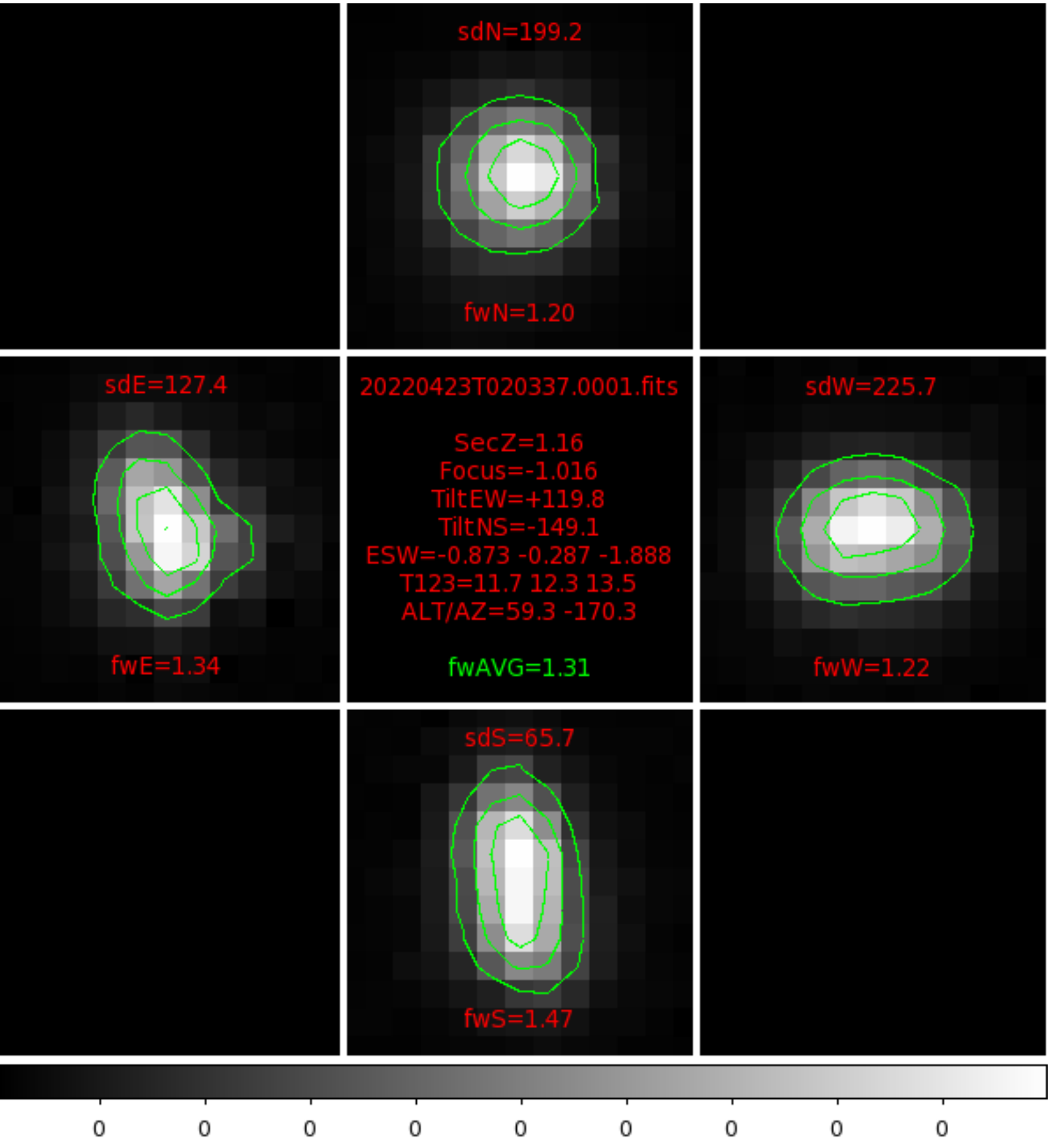
sdN=199.2
fwN=1.20
sdE=127.4
fwE=1.34
20220423T020337.0001.fits
SecZ=1.16
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.3 13.5
ALT/AZ=59.3 -170.3
fwAVG=1.31
sdW=225.7
fwW=1.22
sdS=65.7
fwS=1.47
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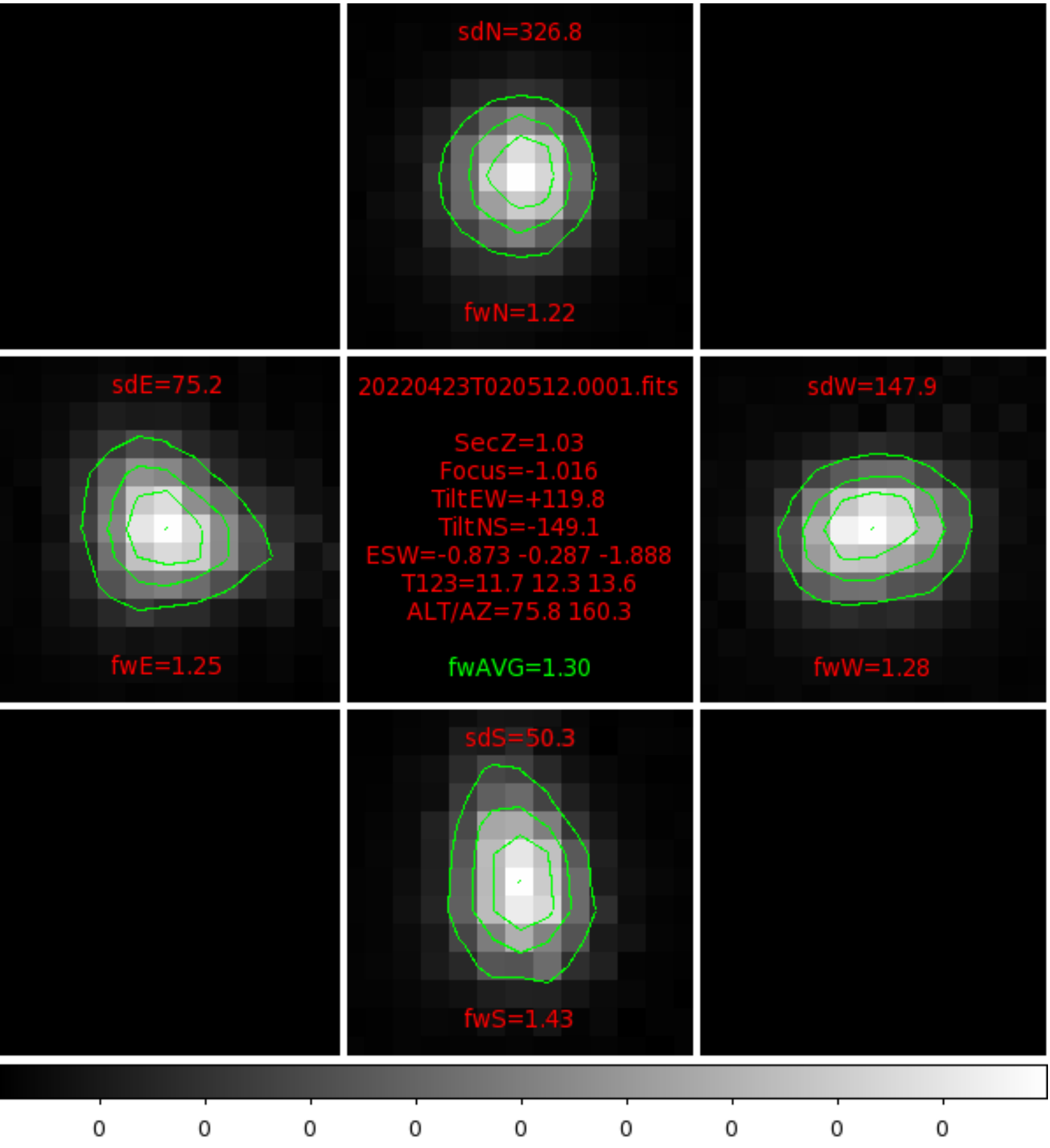
sdN=326.8
fwN=1.22
sdE=75.2
fwE=1.25
20220423T020512.0001.fits
SecZ=1.03
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.3 13.6
ALT/AZ=75.8 160.3
fwAVG=1.30
sdW=147.9
fwW=1.28
sdS=50.3
fwS=1.43
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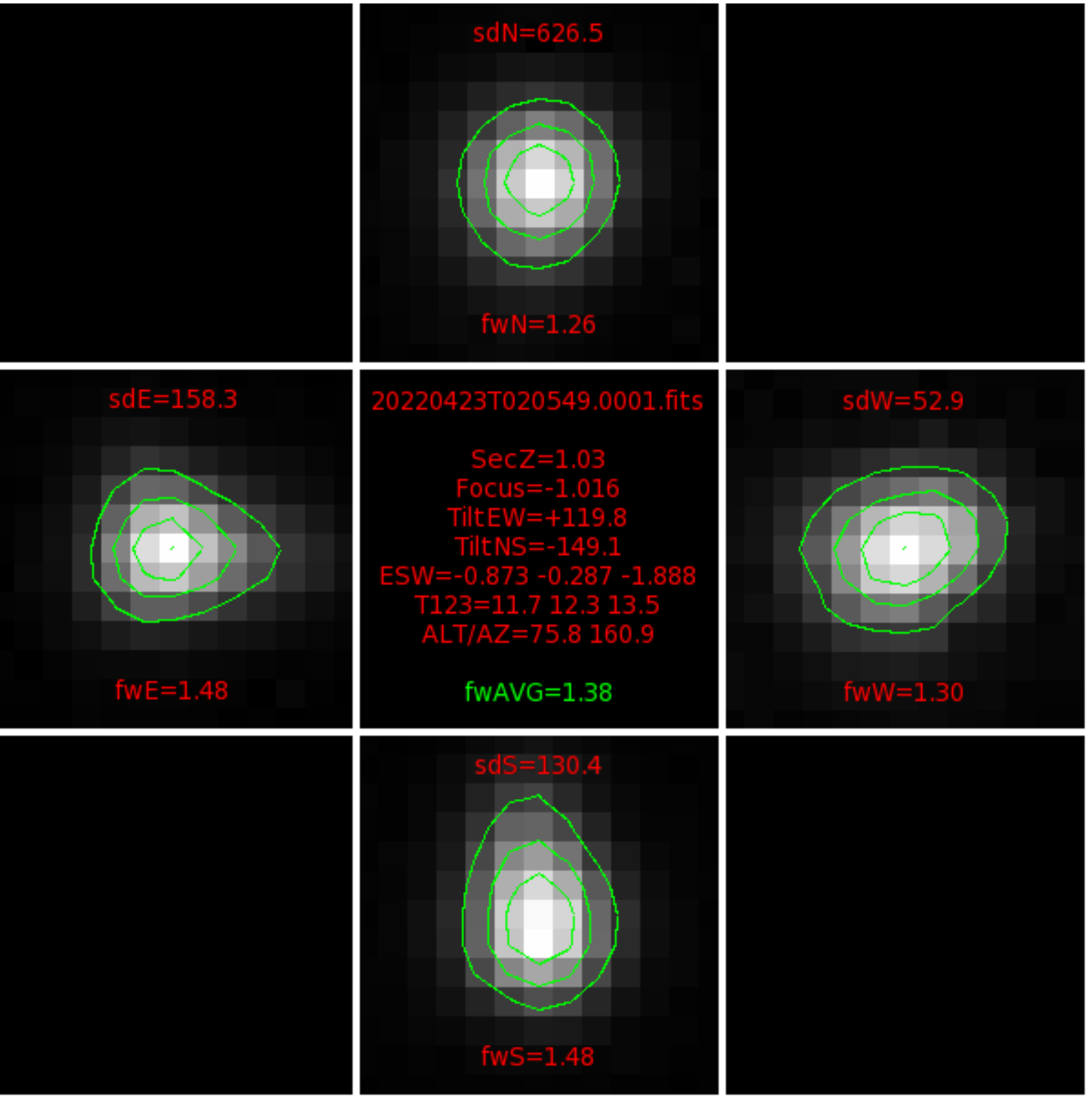
sdN=626.5
fwN=1.26
sdE=158.3
fwE=1.48
20220423T020549.0001.fits
SecZ=1.03
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.3 13.5
ALT/AZ=75.8 160.9
fwAVG=1.38
sdW=52.9
fwW=1.30
sdS=130.4
fwS=1.48
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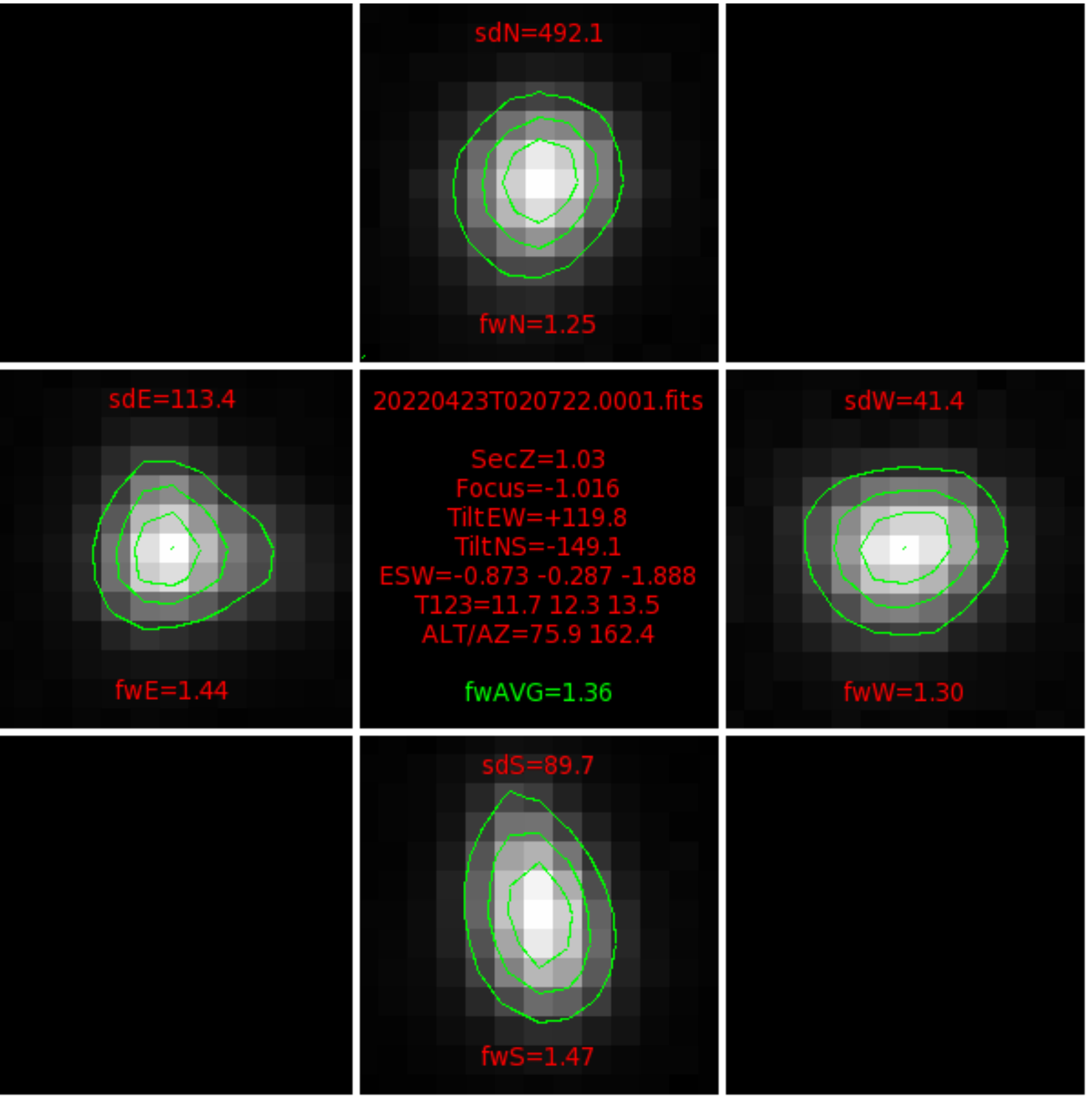
sdN=492.1
fwN=1.25
sdE=113.4
fwE=1.44
20220423T020722.0001.fits
SecZ=1.03
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.3 13.5
ALT/AZ=75.9 162.4
fwAVG=1.36
sdW=41.4
fwW=1.30
sdS=89.7
fwS=1.47
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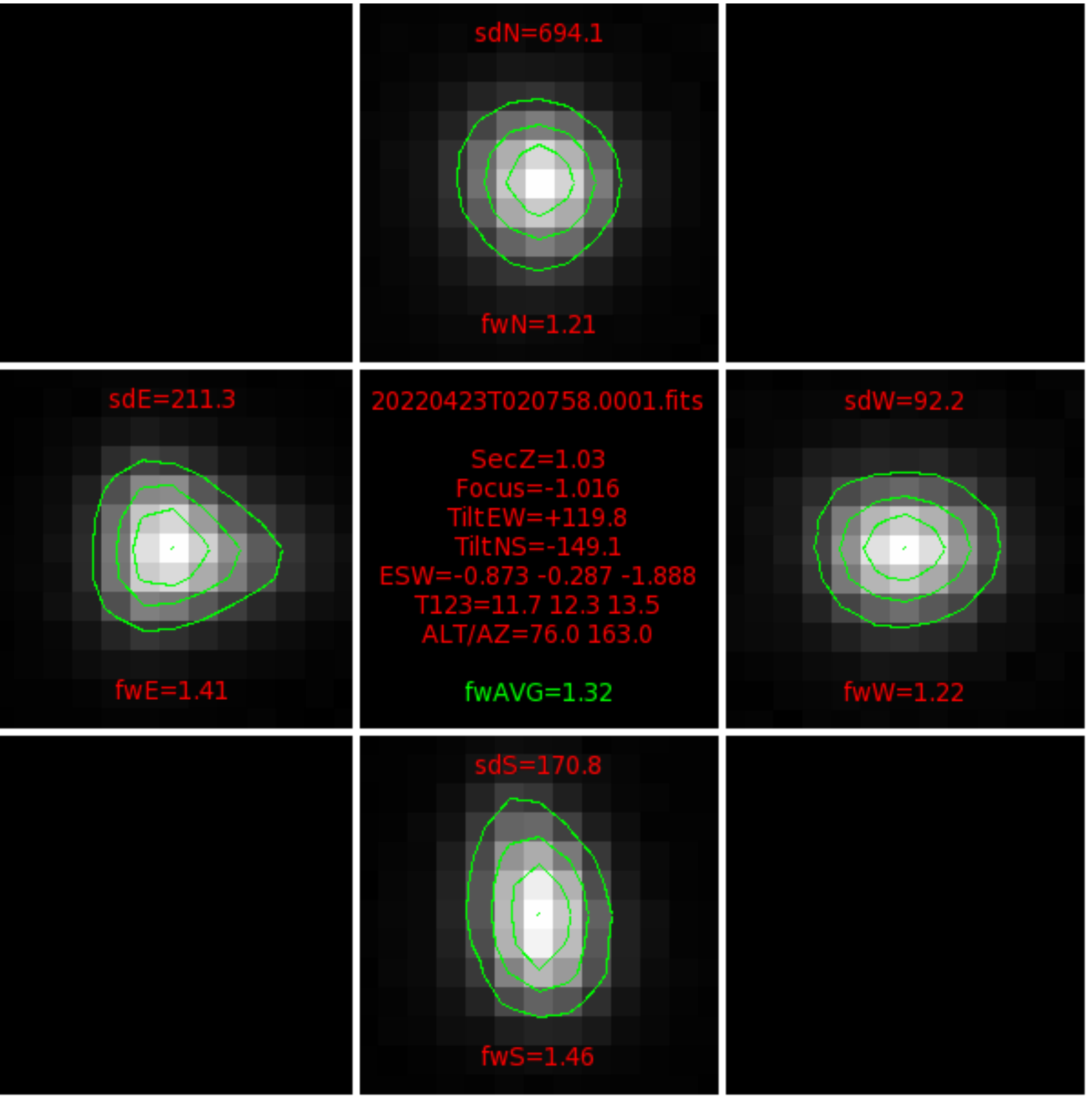
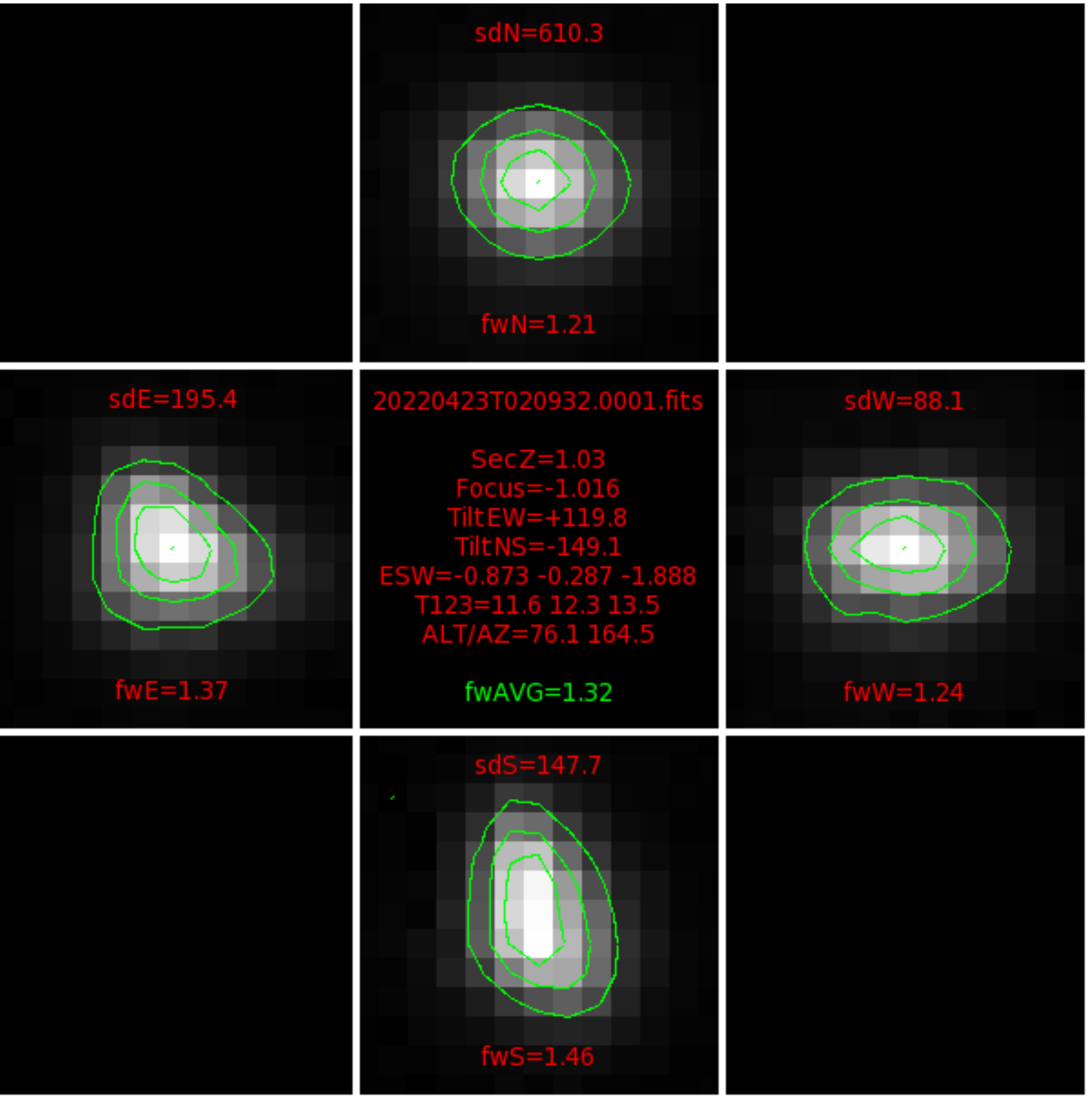
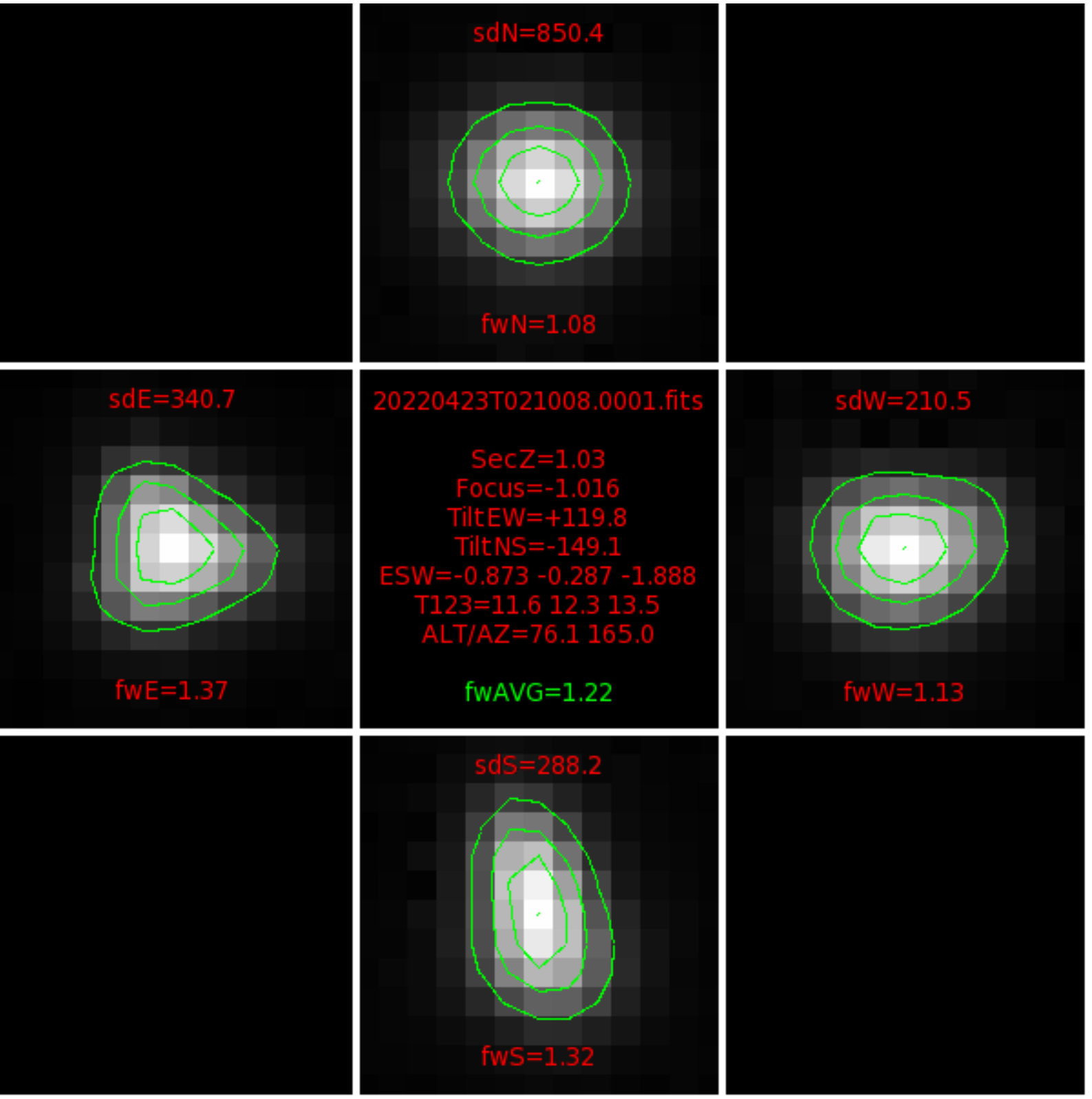

sdN=694.1
fwN=1.21
sdE=211.3
fwE=1.41
20220423T020758.0001.fits
SecZ=1.03
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.3 13.5
ALT/AZ=76.0 163.0
fwAVG=1.32
sdW=92.2
fwW=1.22
sdS=170.8
fwS=1.46
0 0 0 0 0 0 0 0 0


sdN=610.3
fwN=1.21
sdE=195.4
fwE=1.37
20220423T020932.0001.fits
SecZ=1.03
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.6 12.3 13.5
ALT/AZ=76.1 164.5
fwAVG=1.32
sdW=88.1
fwW=1.24
sdS=147.7
fwS=1.46
0 0 0 0 0 0 0 0 0


sdN=850.4
fwN=1.08
sdE=340.7
fwE=1.37
20220423T021008.0001.fits
SecZ=1.03
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.6 12.3 13.5
ALT/AZ=76.1 165.0
fwAVG=1.22
sdW=210.5
fwW=1.13
sdS=288.2
fwS=1.32
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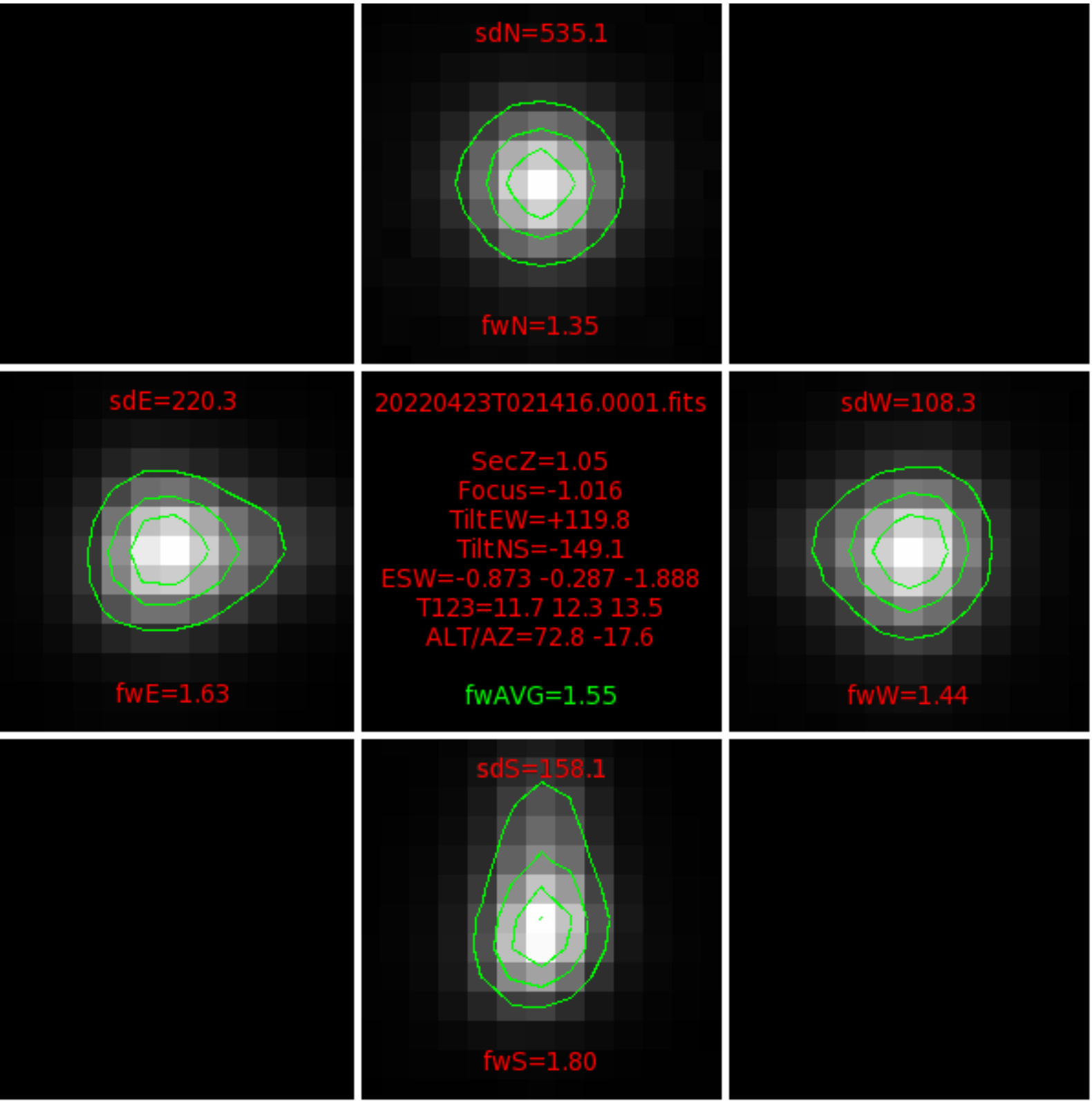
sdN=535.1
fwN=1.35
sdE=220.3
fwE=1.63
20220423T021416.0001.fits
SecZ=1.05
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.3 13.5
ALT/AZ=72.8 -17.6
fwAVG=1.55
sdW=108.3
fwW=1.44
sdS=158.1
fwS=1.80
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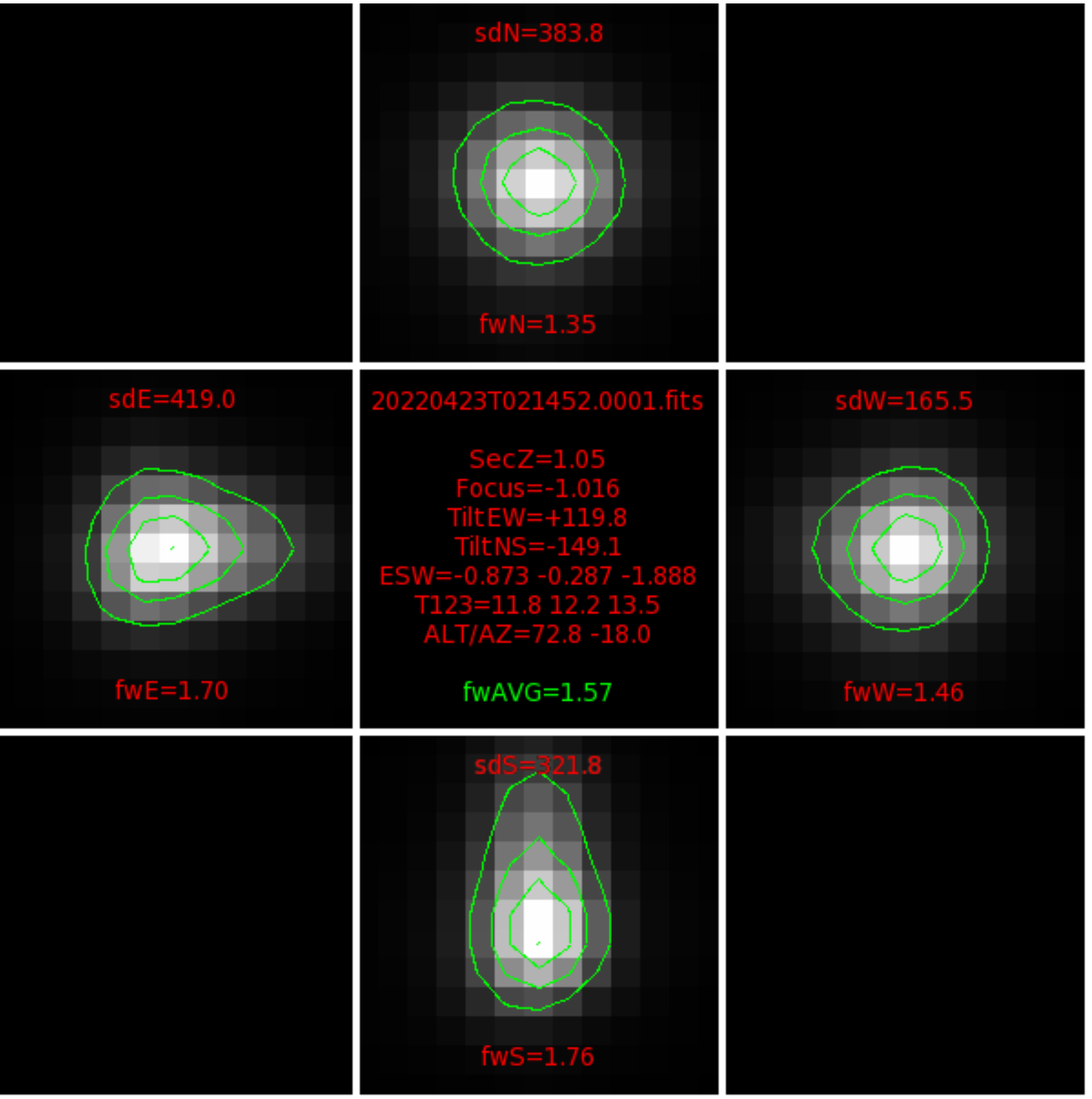
sdN=383.8
fwN=1.35
sdE=419.0
fwE=1.70
20220423T021452.0001.fits
SecZ=1.05
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.8 12.2 13.5
ALT/AZ=72.8 -18.0
fwAVG=1.57
sdW=165.5
fwW=1.46
sdS=321.8
fwS=1.76
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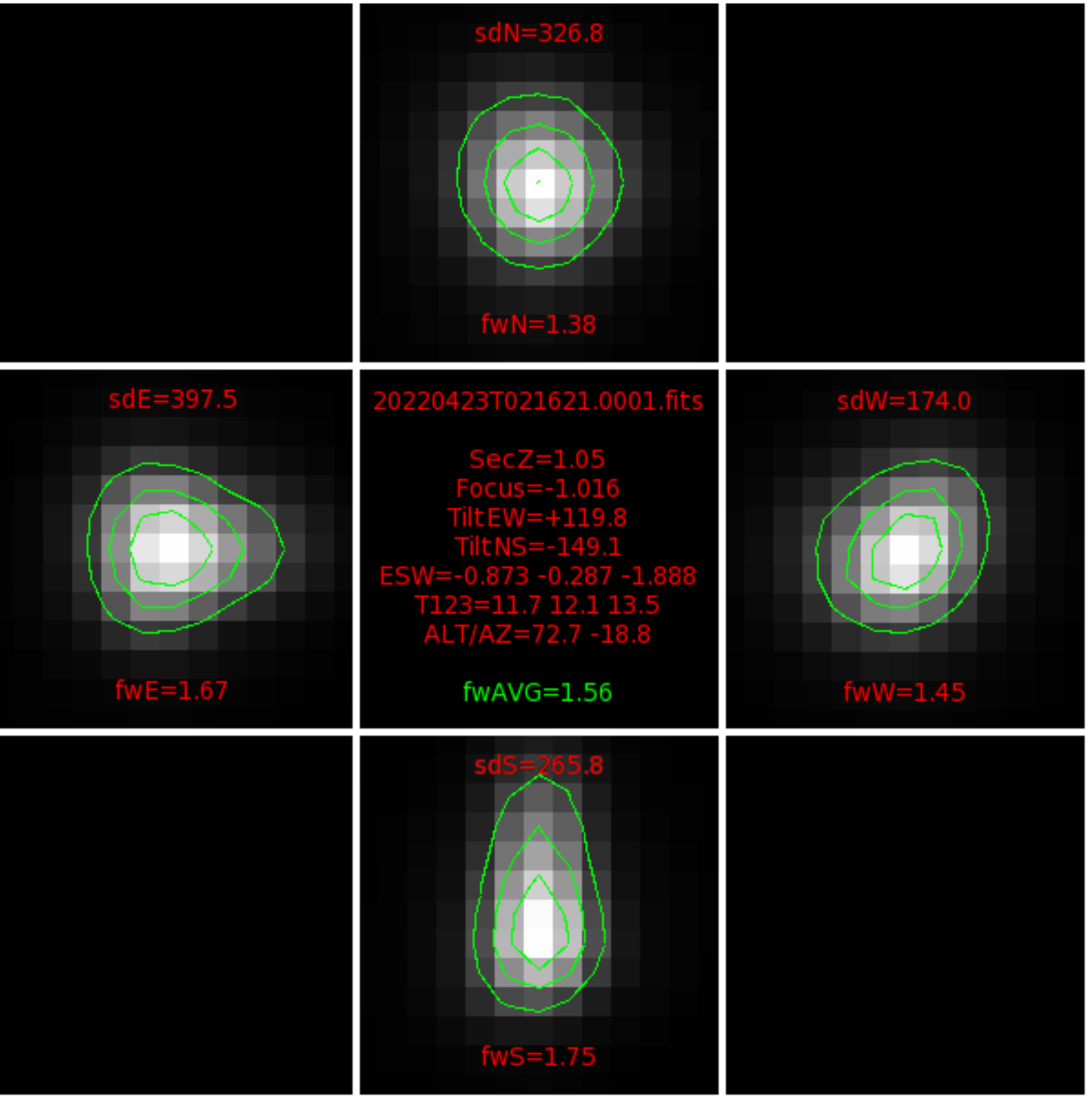
sdN=326.8
fwN=1.38
sdE=397.5
fwE=1.67
20220423T021621.0001.fits
SecZ=1.05
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.1 13.5
ALT/AZ=72.7 -18.8
fwAVG=1.56
sdW=174.0
fwW=1.45
sdS=265.8
fwS=1.75
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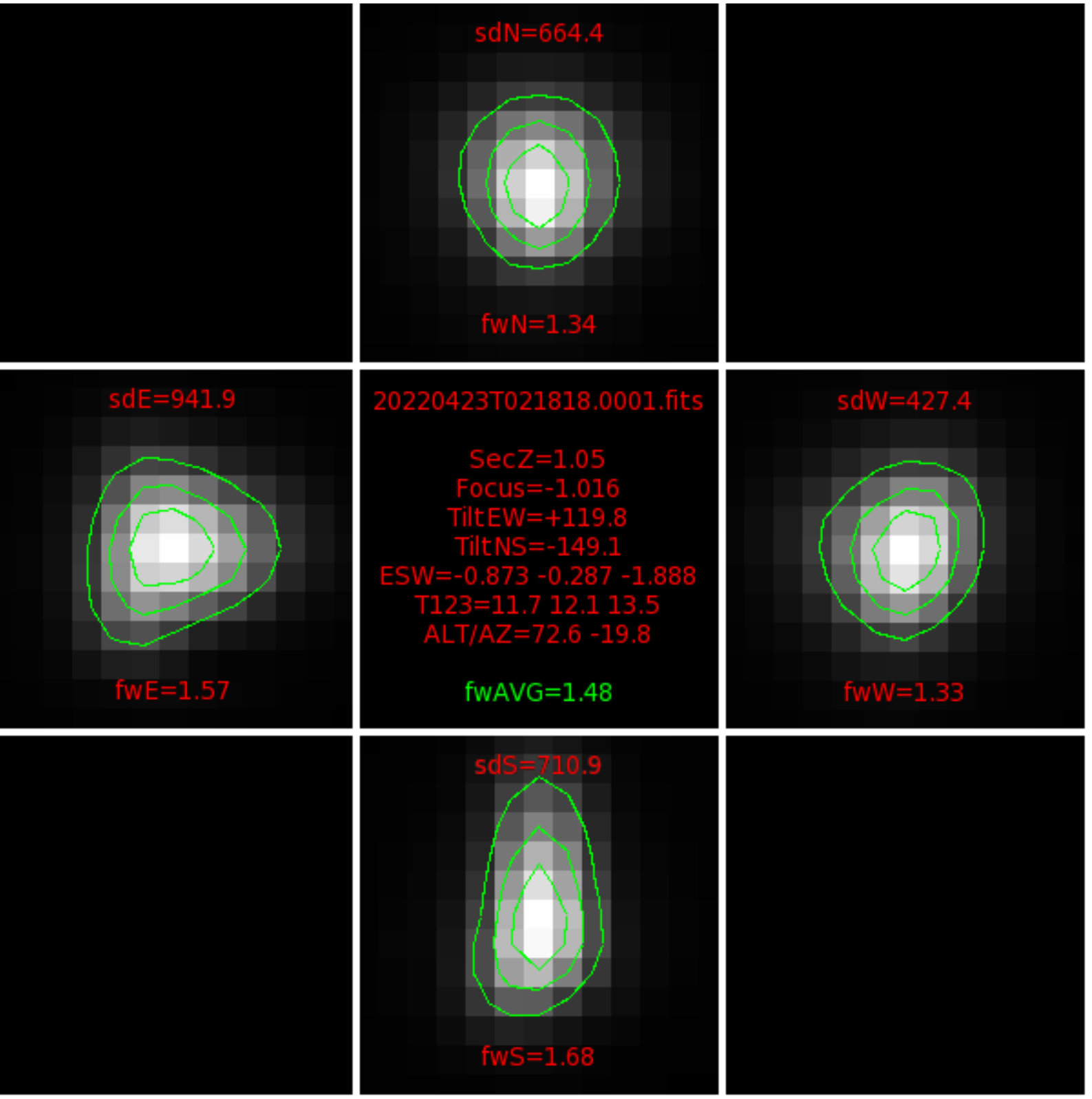
sdN=664.4
fwN=1.34
sdE=941.9
fwE=1.57
20220423T021818.0001.fits
SecZ=1.05
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.1 13.5
ALT/AZ=72.6 -19.8
fwAVG=1.48
sdW=427.4
fwW=1.33
sdS=710.9
fwS=1.68
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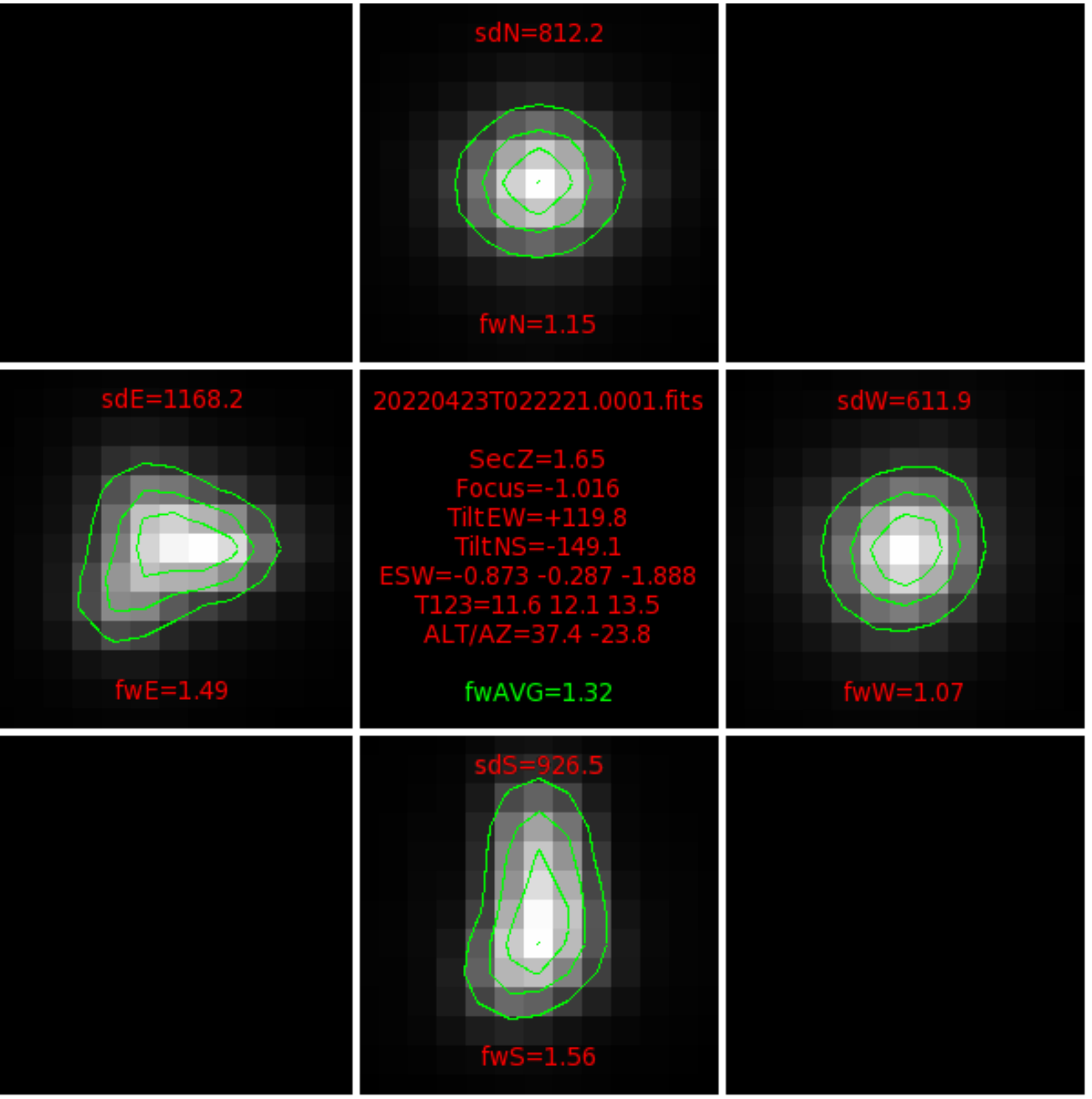
sdN=812.2
fwN=1.15
sdE=1168.2
fwE=1.49
20220423T022221.0001.fits
SecZ=1.65
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.6 12.1 13.5
ALT/AZ=37.4 -23.8
fwAVG=1.32
sdW=611.9
fwW=1.07
sdS=926.5
fwS=1.56
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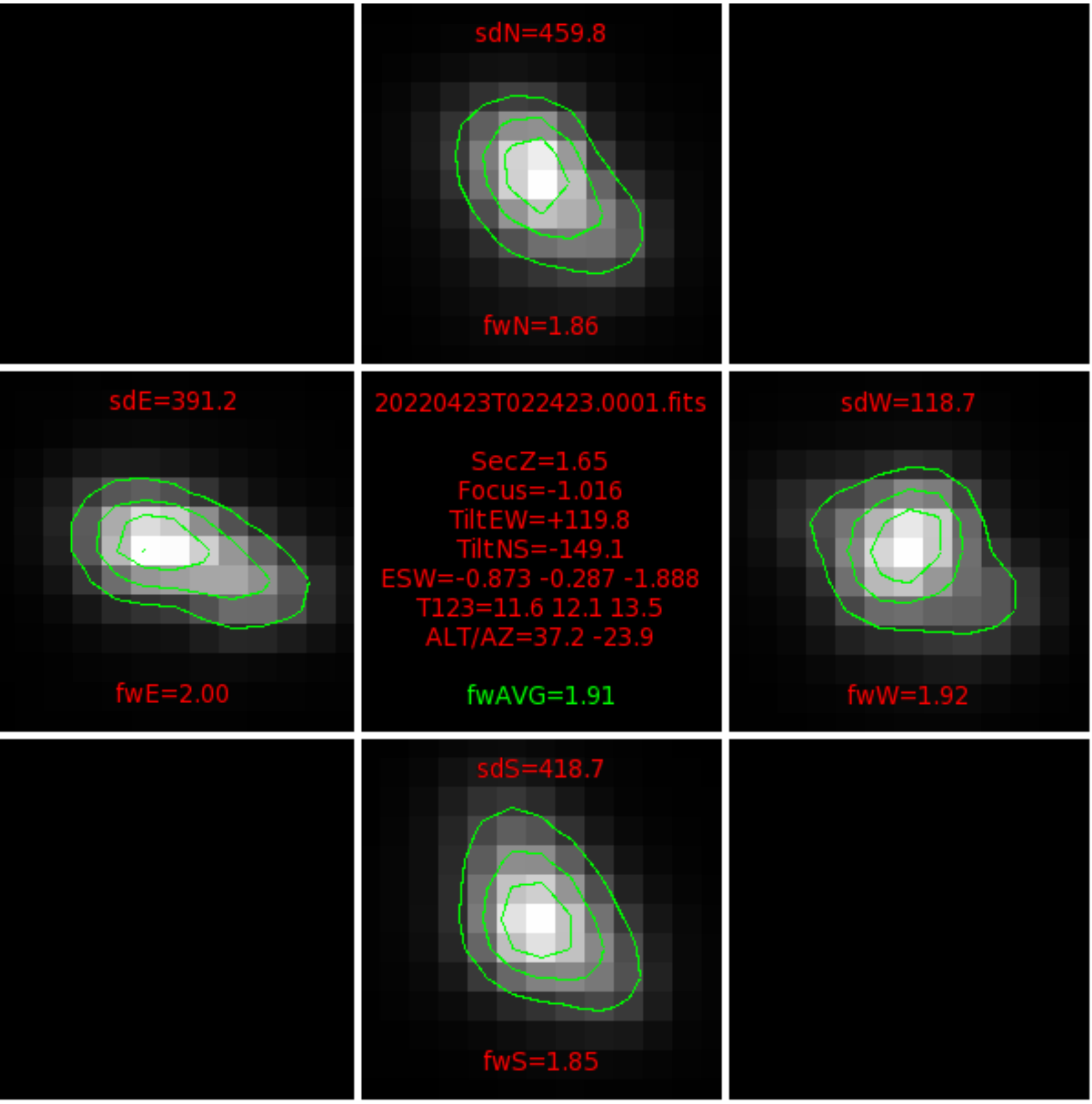
sdN=459.8
fwN=1.86
sdE=391.2
fwE=2.00
20220423T022423.0001.fits
SecZ=1.65
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.6 12.1 13.5
ALT/AZ=37.2 -23.9
fwAVG=1.91
sdW=118.7
fwW=1.92
sdS=418.7
fwS=1.85
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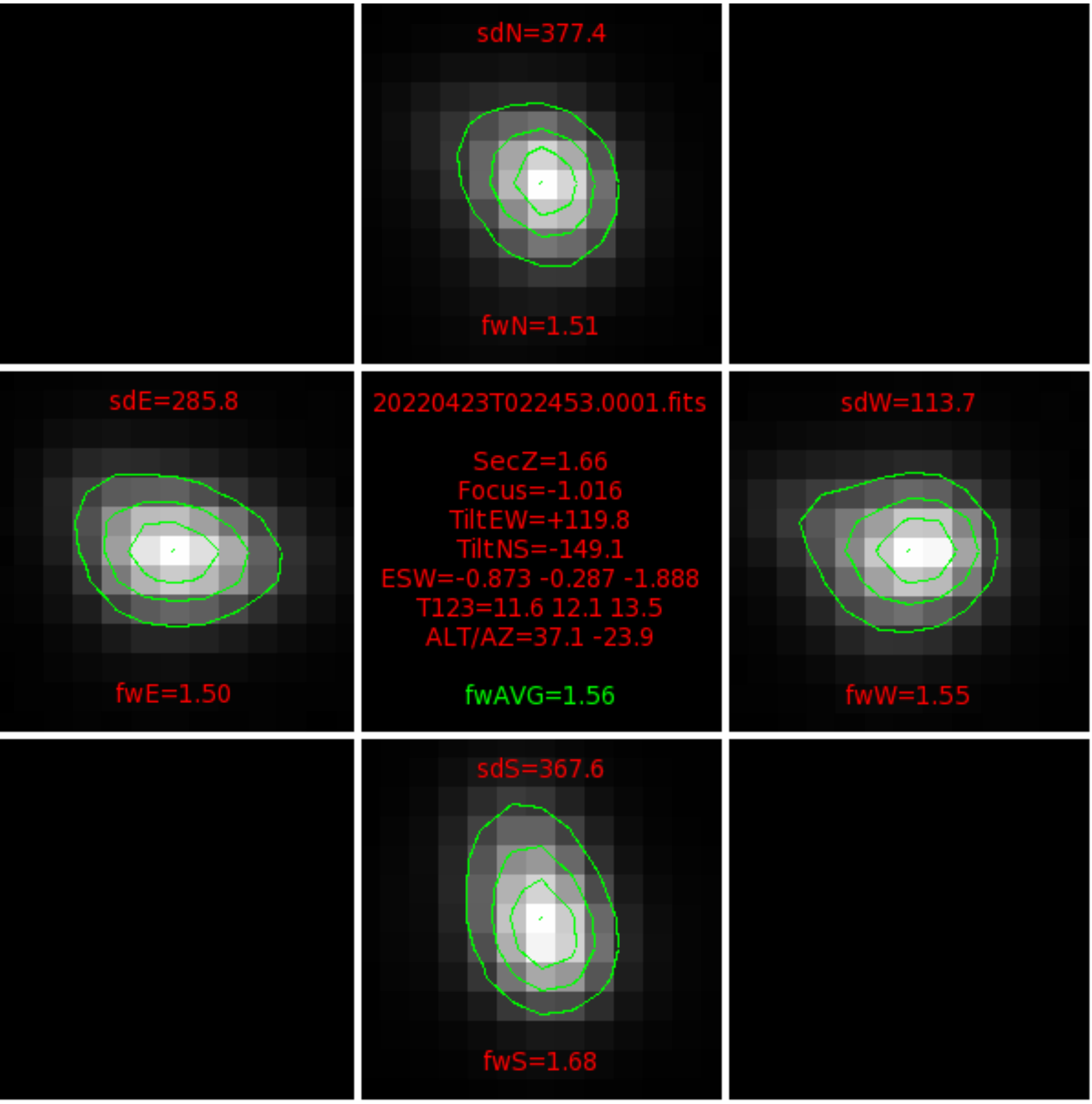
sdN=377.4
fwN=1.51
sdE=285.8
fwE=1.50
20220423T022453.0001.fits
SecZ=1.66
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.6 12.1 13.5
ALT/AZ=37.1 -23.9
fwAVG=1.56
sdW=113.7
fwW=1.55
sdS=367.6
fwS=1.68
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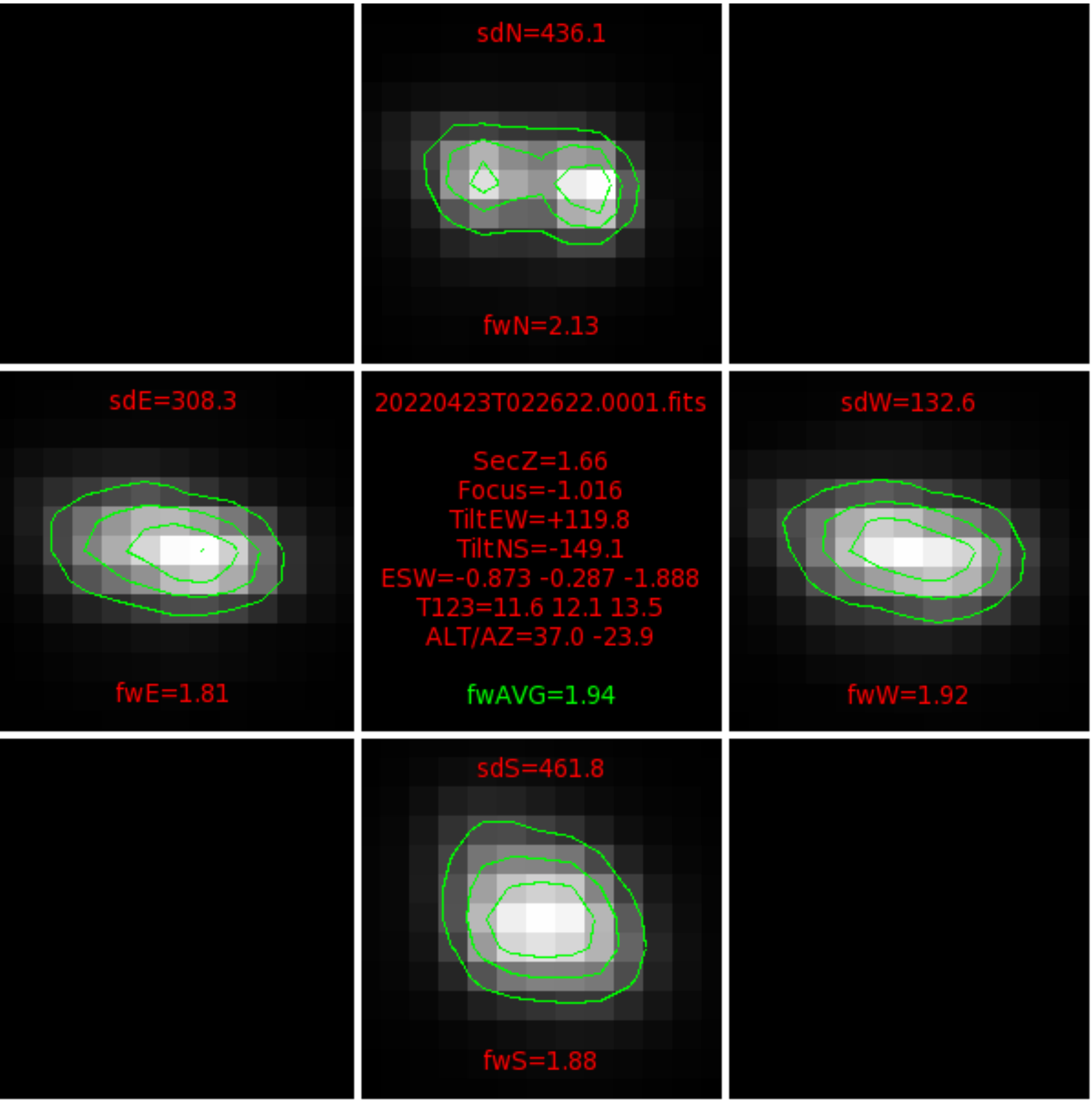
sdN=436.1
fwN=2.13
sdE=308.3
fwE=1.81
20220423T022622.0001.fits
SecZ=1.66
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.6 12.1 13.5
ALT/AZ=37.0 -23.9
fwAVG=1.94
sdW=132.6
fwW=1.92
sdS=461.8
fwS=1.88
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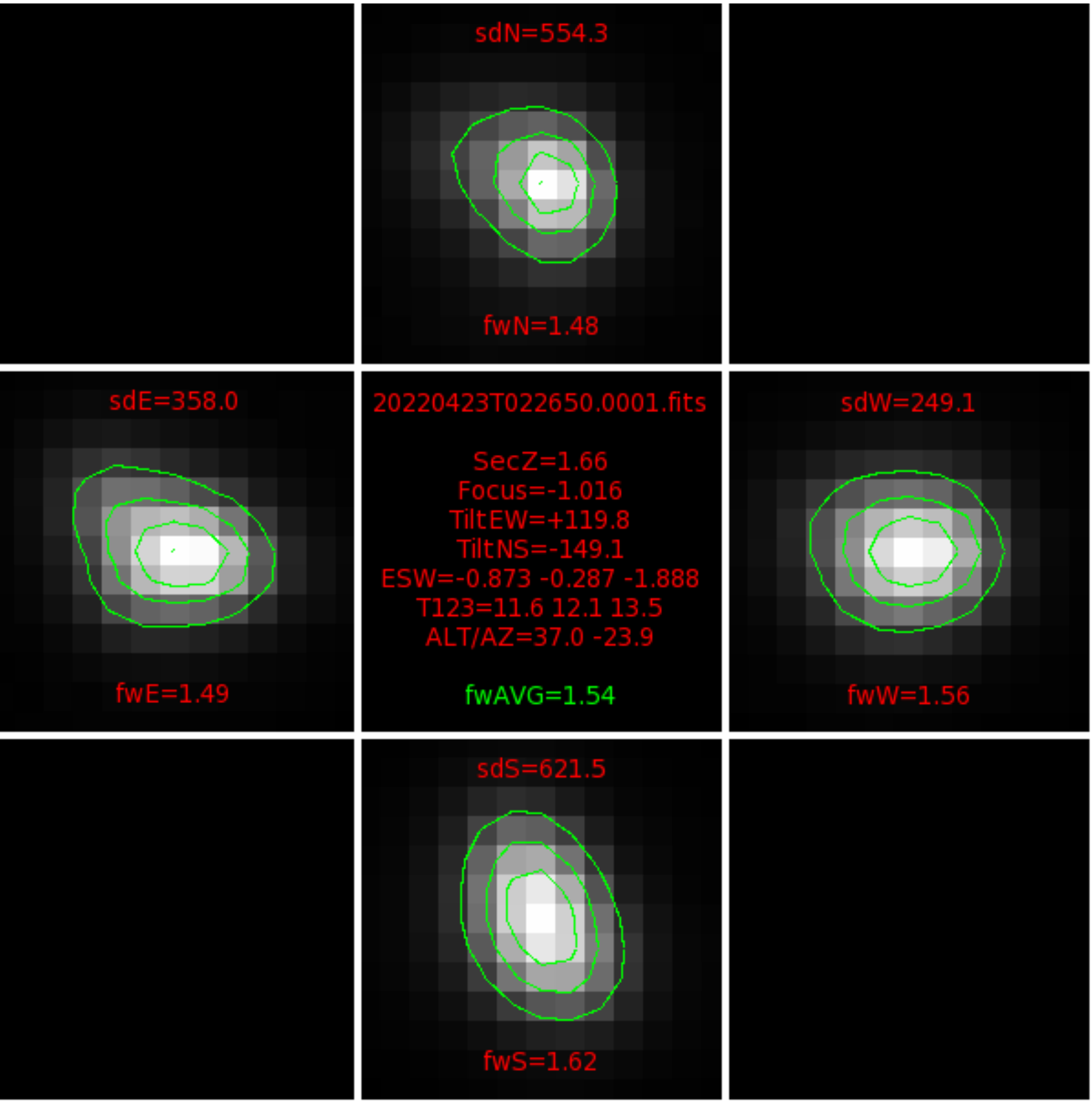
sdN=554.3
fwN=1.48
sdE=358.0
fwE=1.49
20220423T022650.0001.fits
SecZ=1.66
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.6 12.1 13.5
ALT/AZ=37.0 -23.9
fwAVG=1.54
sdW=249.1
fwW=1.56
sdS=621.5
fwS=1.62
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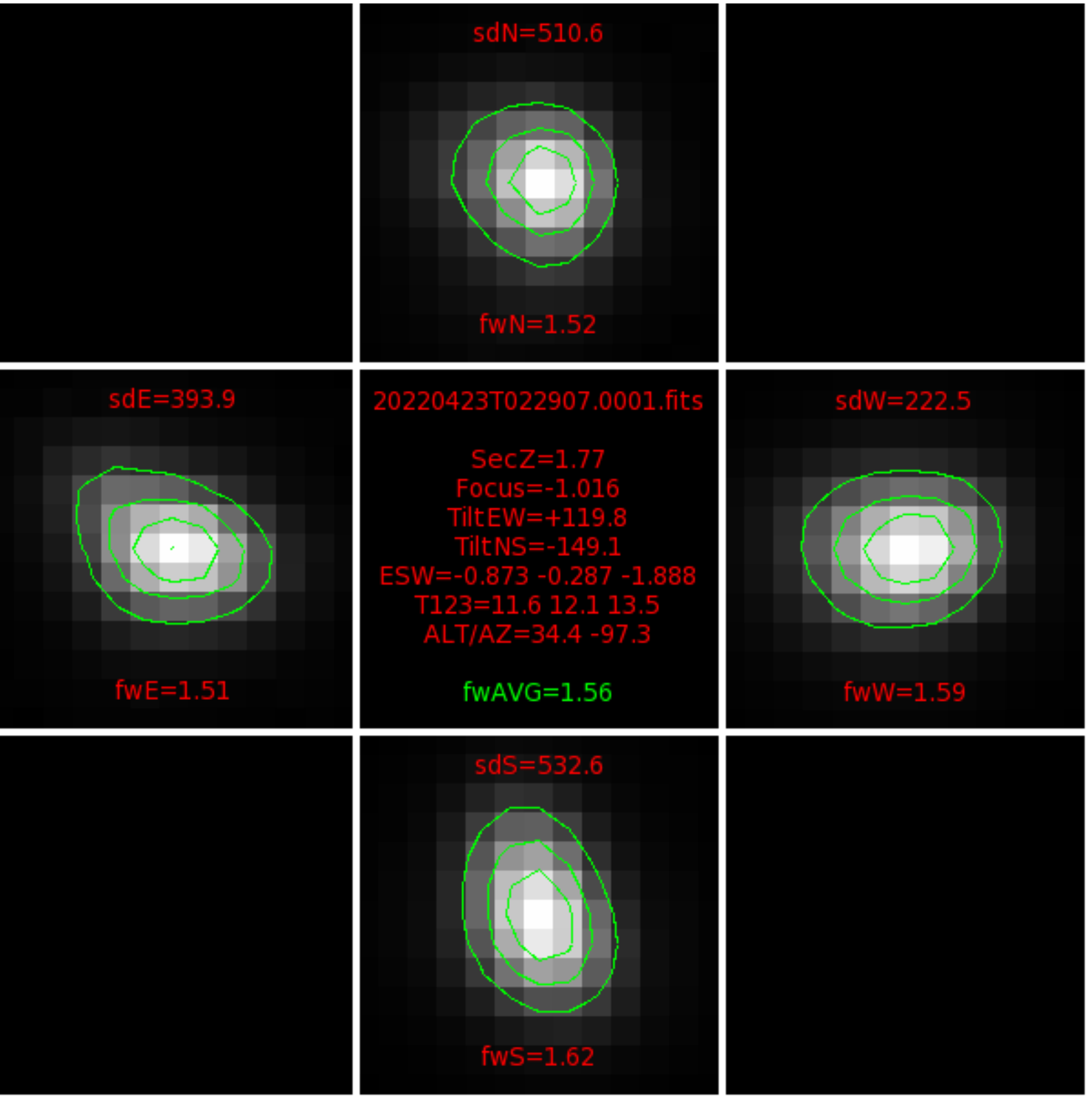
sdN=510.6
fwN=1.52
sdE=393.9
fwE=1.51
20220423T022907.0001.fits
SecZ=1.77
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.6 12.1 13.5
ALT/AZ=34.4 -97.3
fwAVG=1.56
sdW=222.5
fwW=1.59
sdS=532.6
fwS=1.62
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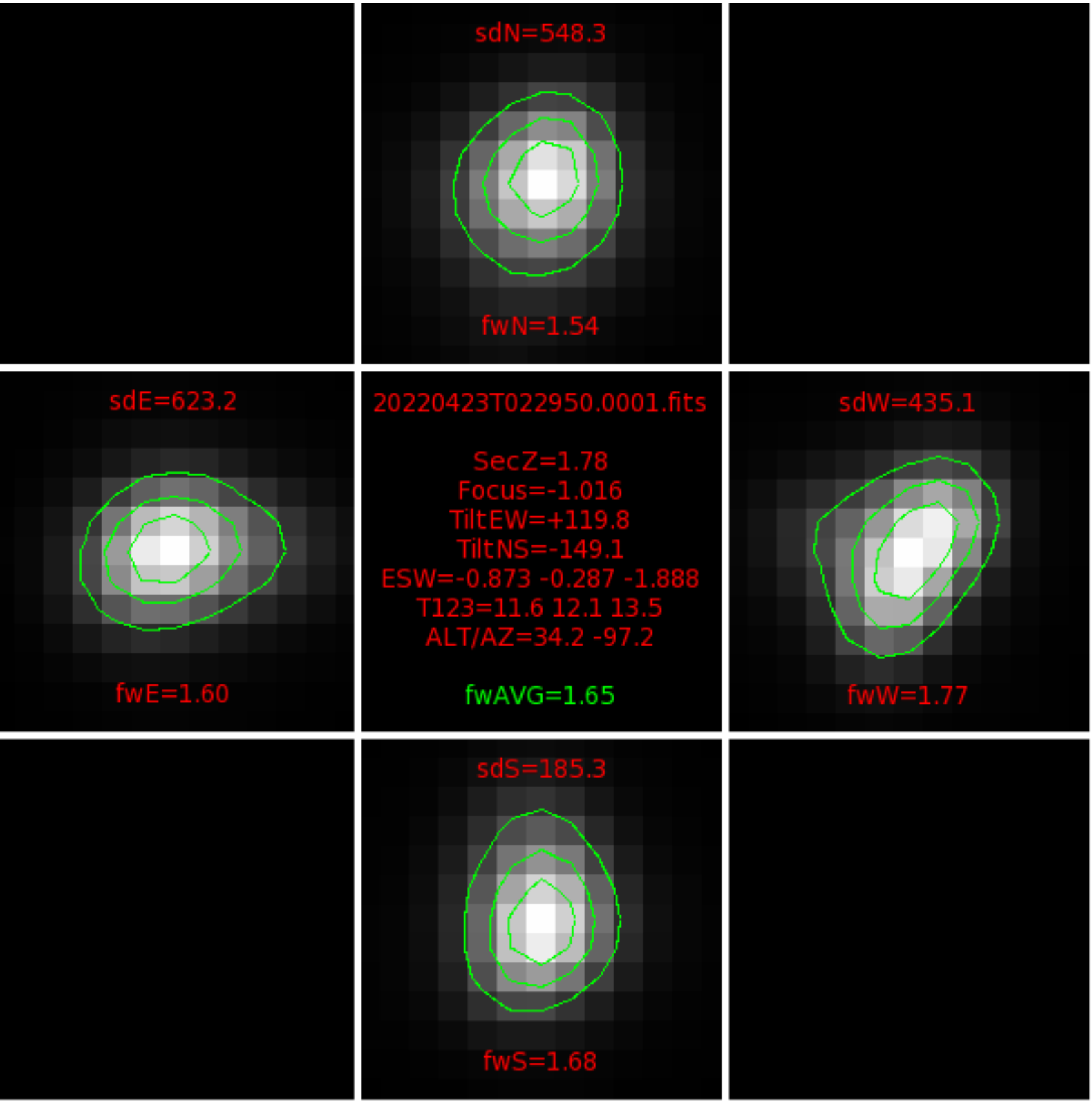
sdN=548.3
fwN=1.54
sdE=623.2
fwE=1.60
20220423T022950.0001.fits
SecZ=1.78
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.6 12.1 13.5
ALT/AZ=34.2 -97.2
fwAVG=1.65
sdW=435.1
fwW=1.77
sdS=185.3
fwS=1.68
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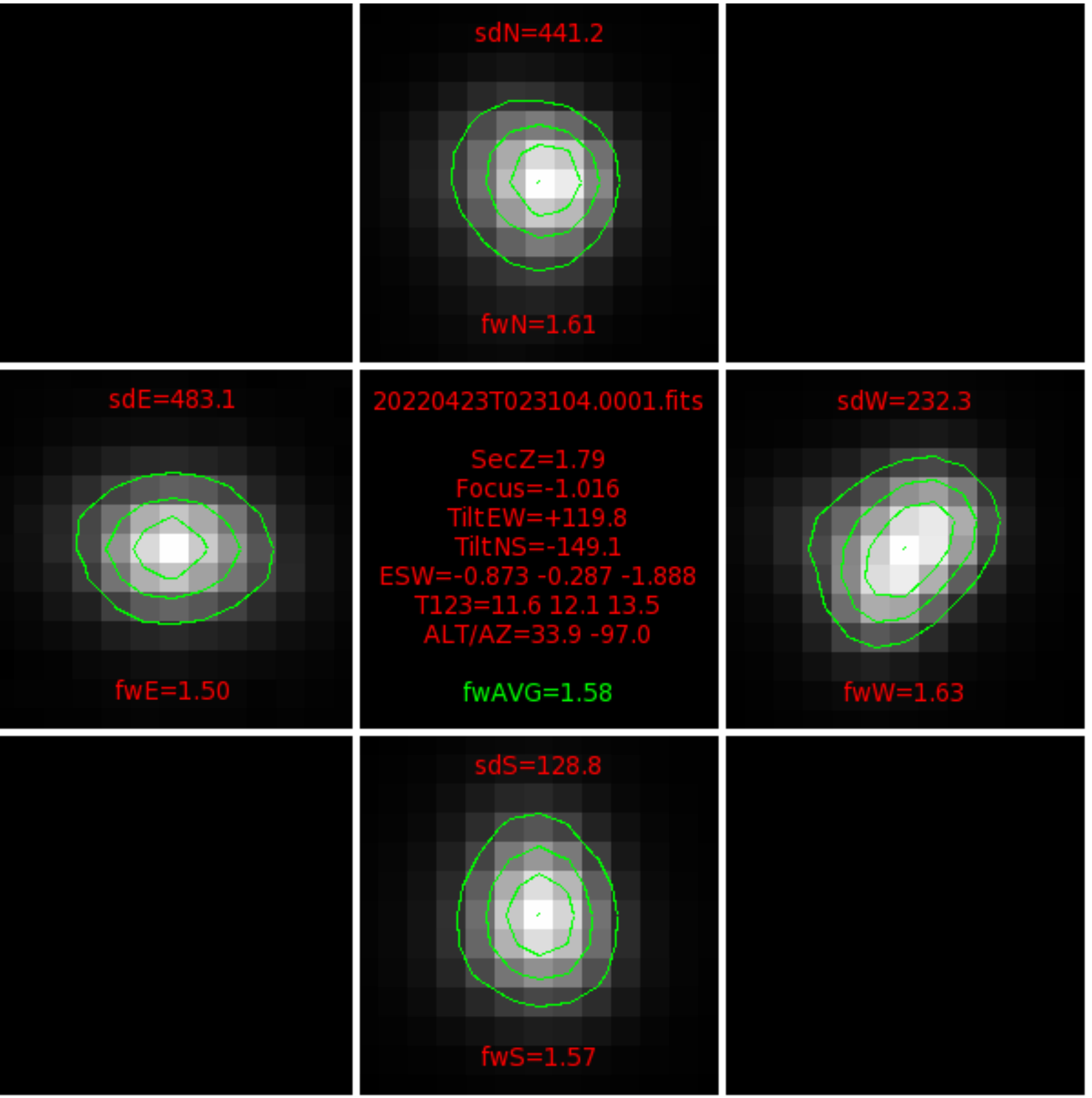
sdN=441.2
fwN=1.61
sdE=483.1
fwE=1.50
20220423T023104.0001.fits
SecZ=1.79
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.6 12.1 13.5
ALT/AZ=33.9 -97.0
fwAVG=1.58
sdW=232.3
fwW=1.63
sdS=128.8
fwS=1.57
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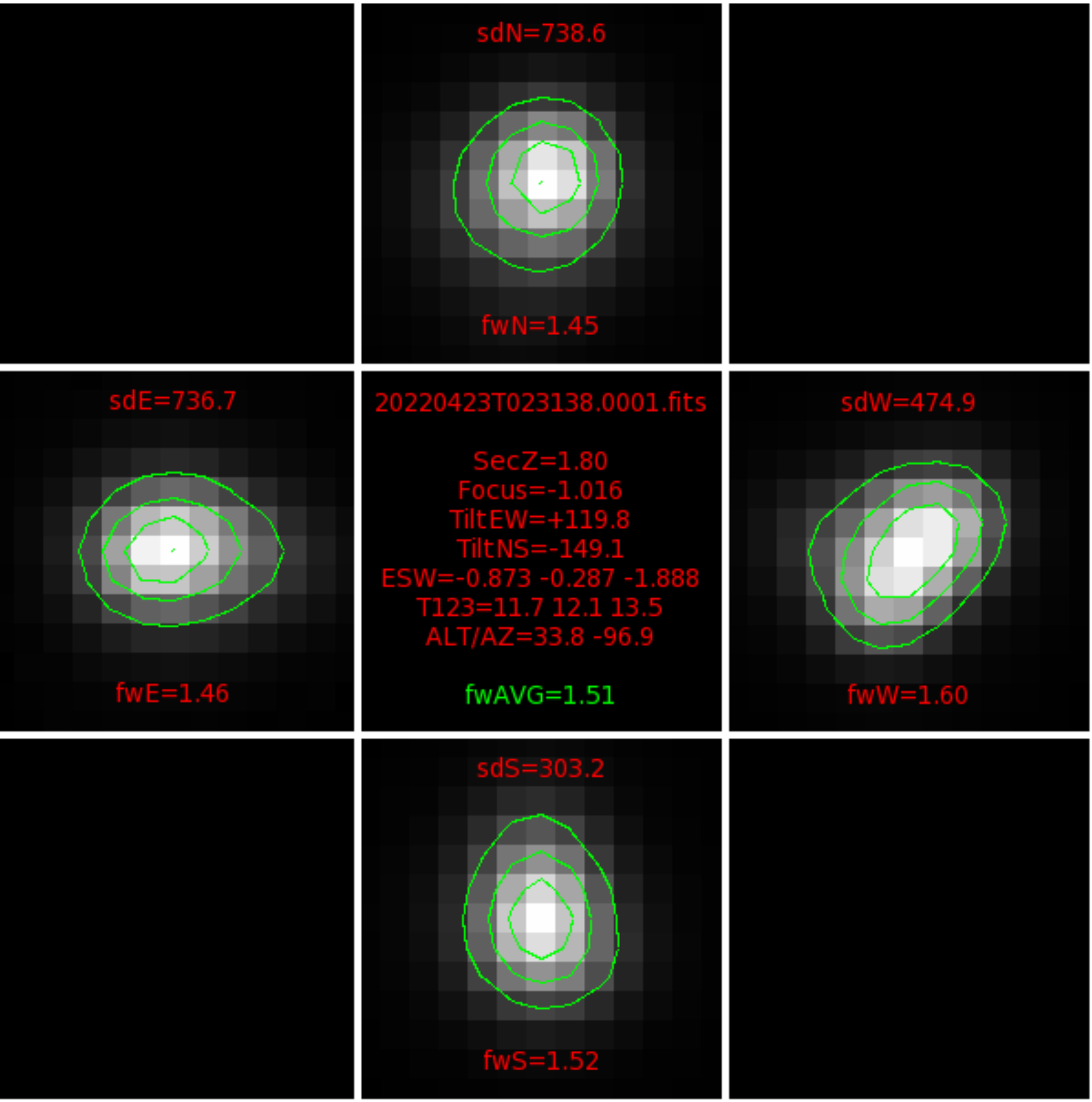
sdN=738.6
fwN=1.45
sdE=736.7
fwE=1.46
20220423T023138.0001.fits
SecZ=1.80
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.1 13.5
ALT/AZ=33.8 -96.9
fwAVG=1.51
sdW=474.9
fwW=1.60
sdS=303.2
fwS=1.52
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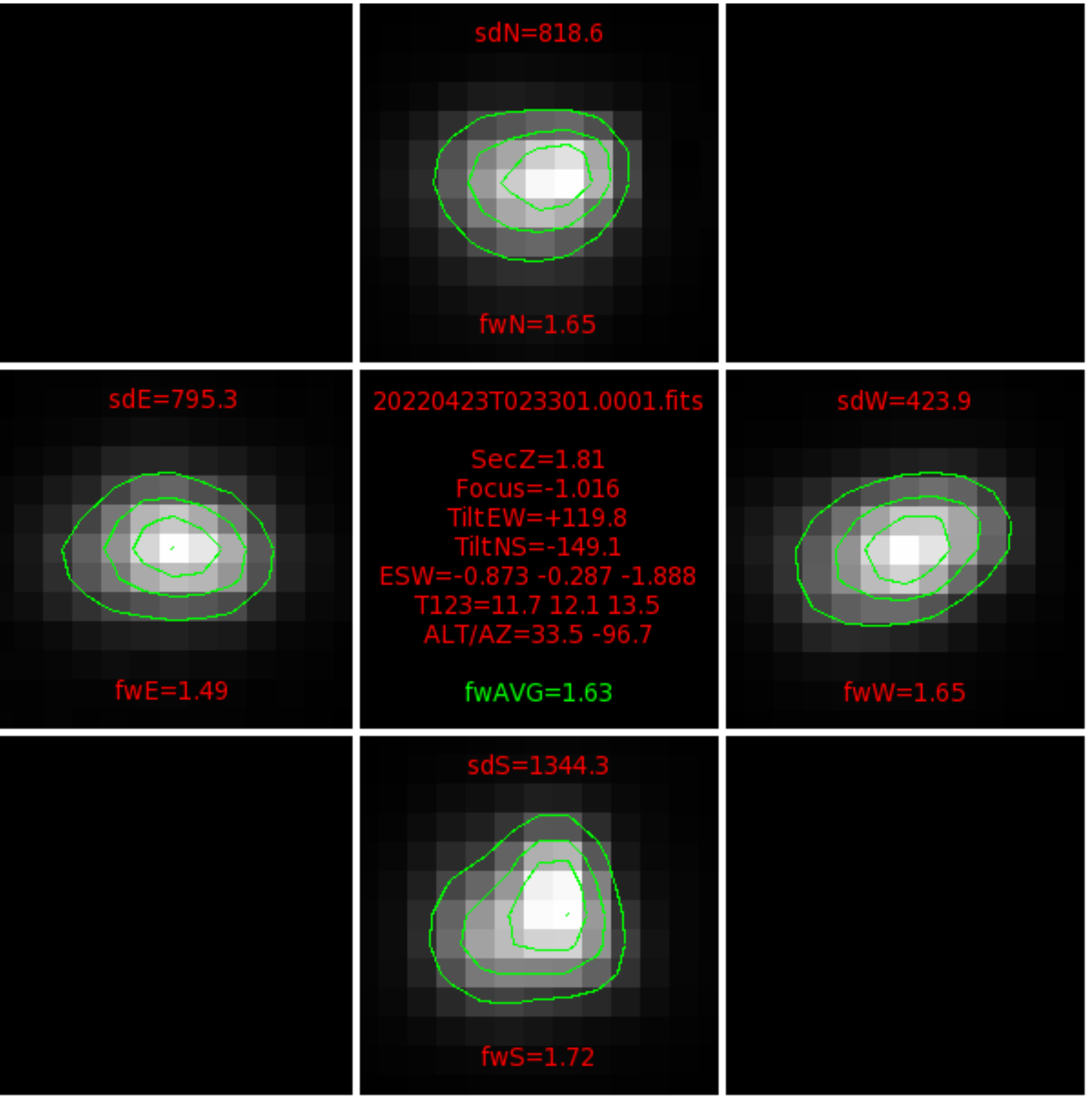
sdN=818.6
fwN=1.65
sdE=795.3
fwE=1.49
20220423T023301.0001.fits
SecZ=1.81
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.1 13.5
ALT/AZ=33.5 -96.7
fwAVG=1.63
sdW=423.9
fwW=1.65
sdS=1344.3
fwS=1.72
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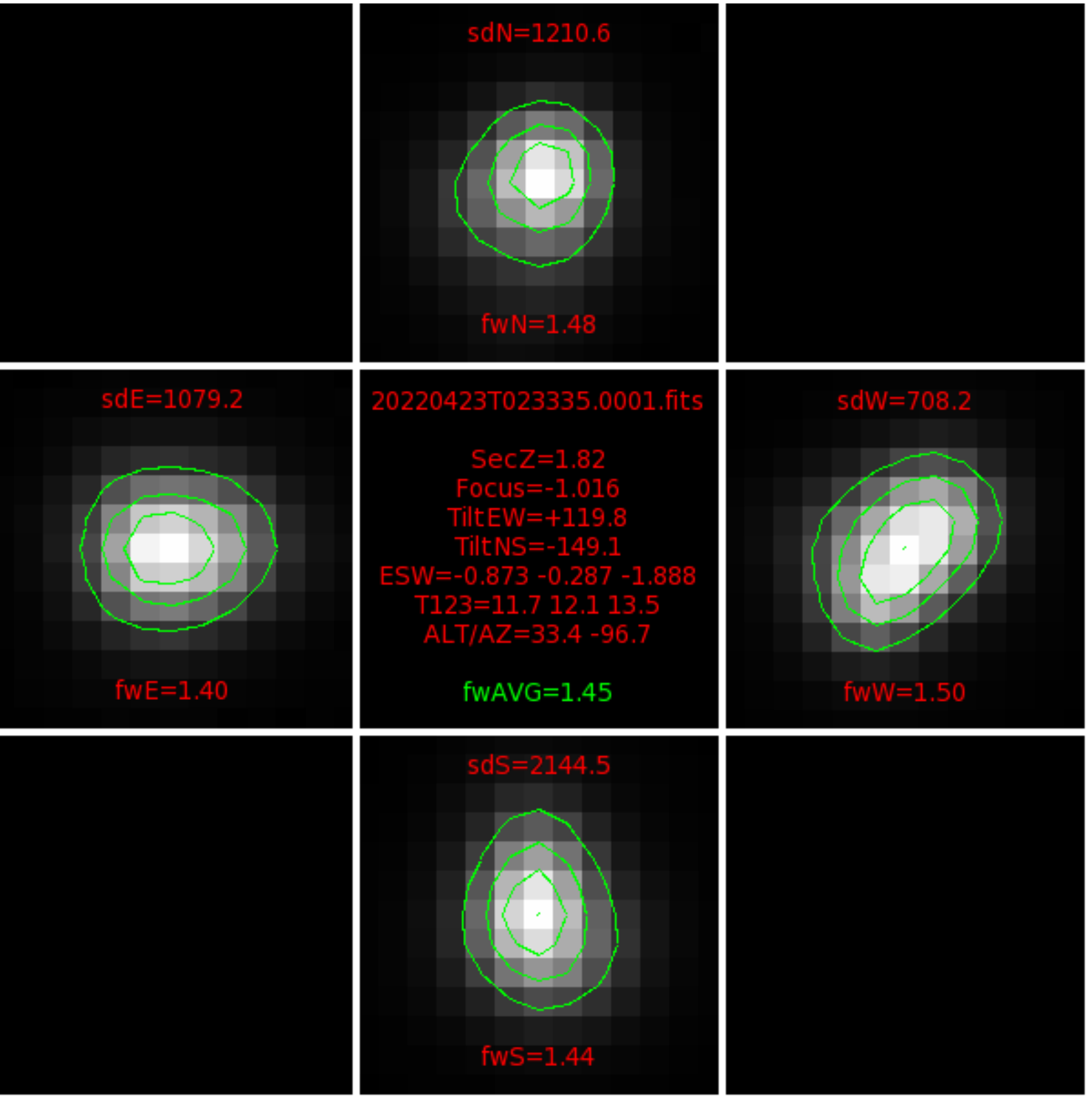
sdN=1210.6
fwN=1.48
sdE=1079.2
fwE=1.40
20220423T023335.0001.fits
SecZ=1.82
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.1 13.5
ALT/AZ=33.4 -96.7
fwAVG=1.45
sdW=708.2
fwW=1.50
sdS=2144.5
fwS=1.44
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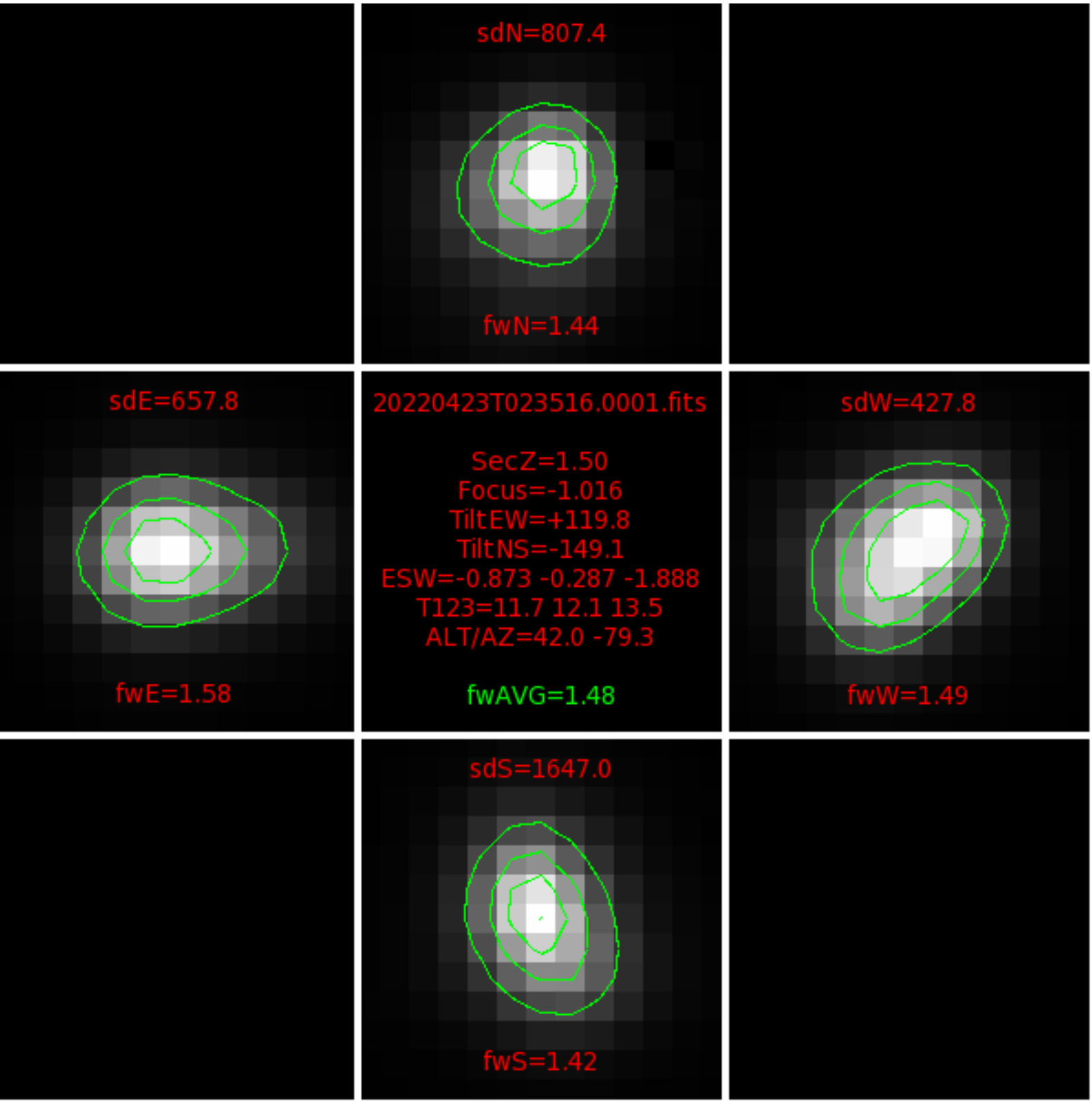
sdN=807.4
fwN=1.44
sdE=657.8
fwE=1.58
20220423T023516.0001.fits
SecZ=1.50
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.1 13.5
ALT/AZ=42.0 -79.3
fwAVG=1.48
sdW=427.8
fwW=1.49
sdS=1647.0
fwS=1.42
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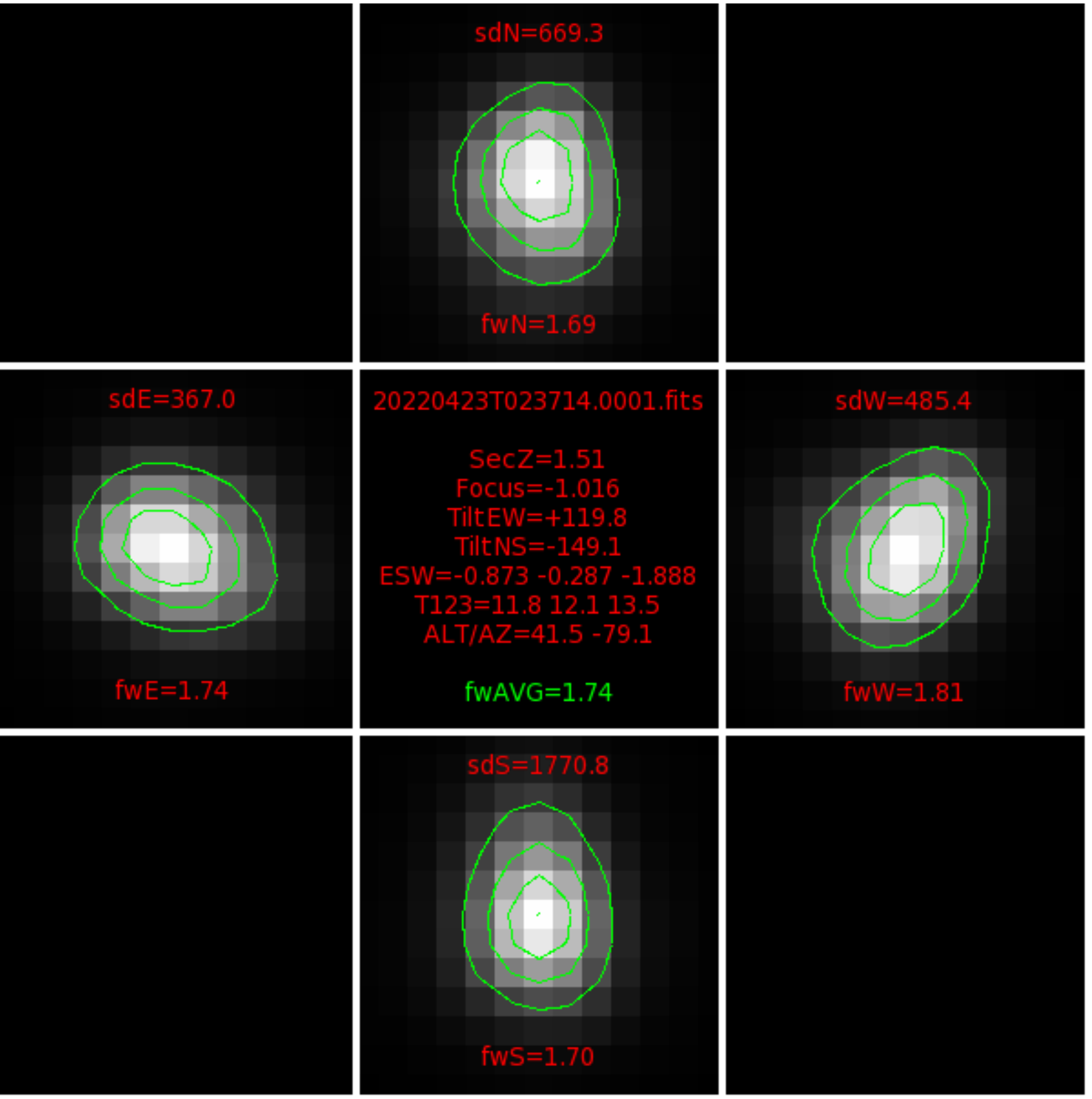
sdN=669.3
fwN=1.69
sdE=367.0
fwE=1.74
20220423T023714.0001.fits
SecZ=1.51
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.8 12.1 13.5
ALT/AZ=41.5 -79.1
fwAVG=1.74
sdW=485.4
fwW=1.81
sdS=1770.8
fwS=1.70
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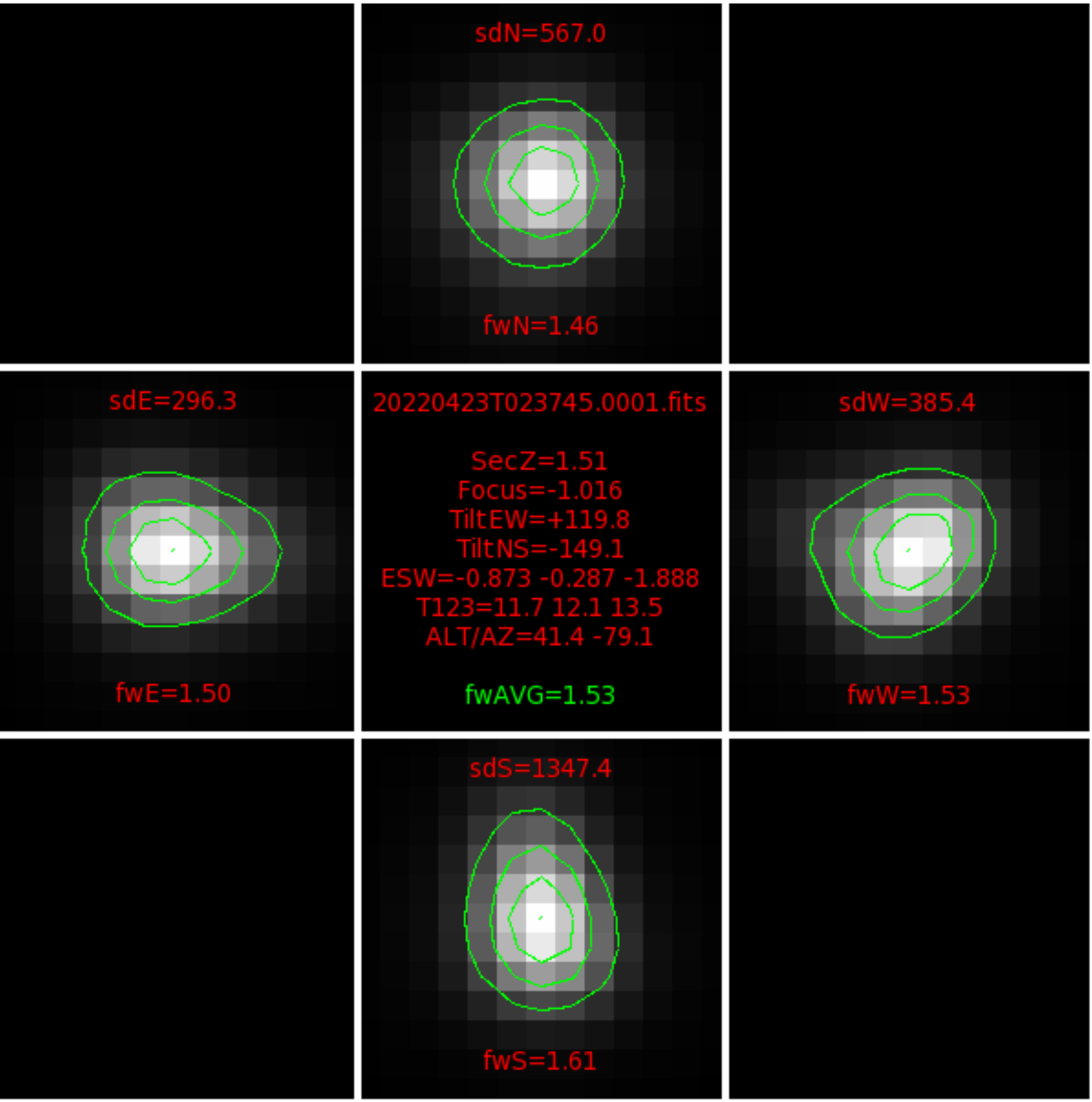
sdN=567.0
fwN=1.46
sdE=296.3
fwE=1.50
20220423T023745.0001.fits
SecZ=1.51
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.1 13.5
ALT/AZ=41.4 -79.1
fwAVG=1.53
sdW=385.4
fwW=1.53
sdS=1347.4
fwS=1.61
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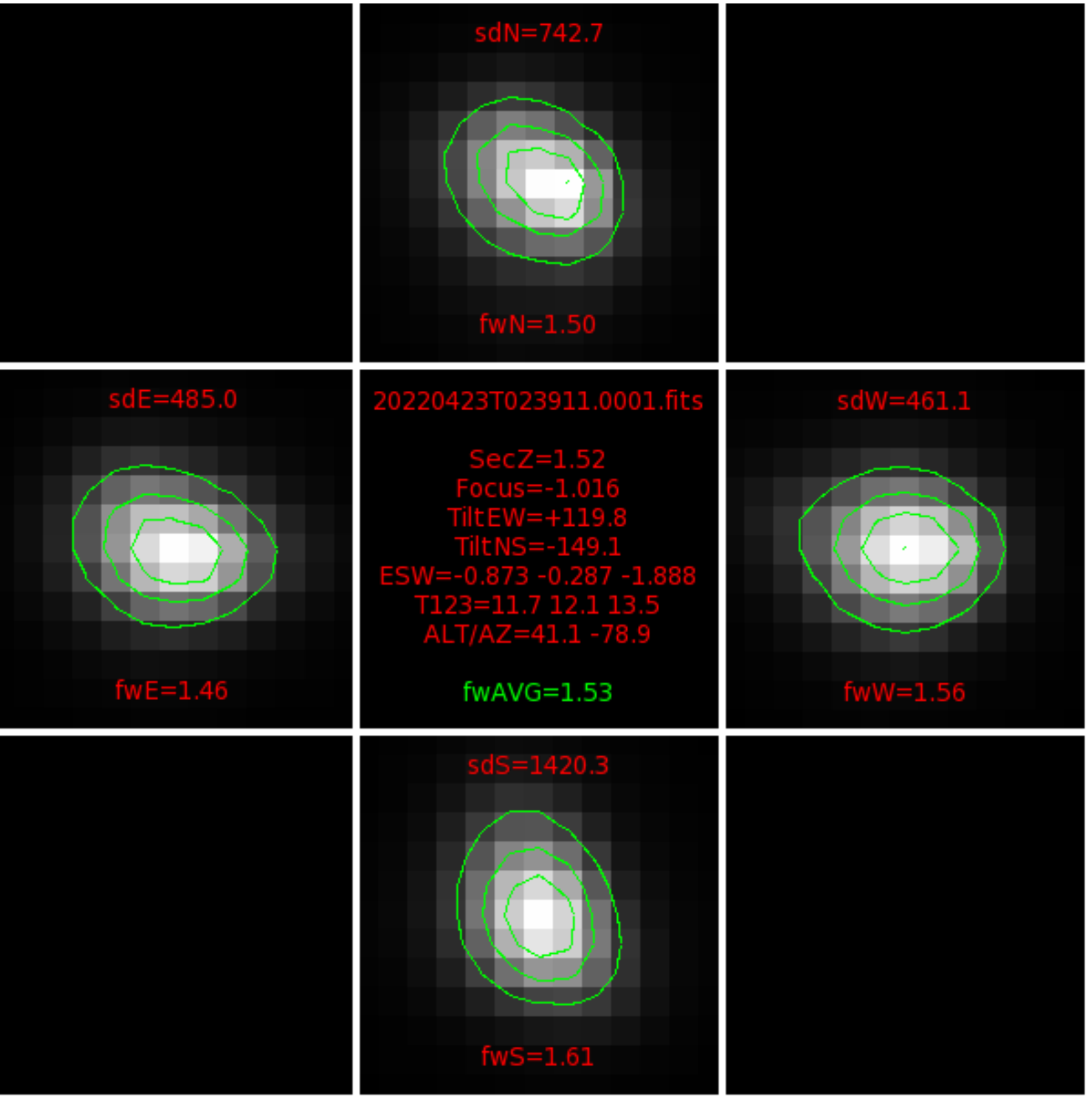
sdN=742.7
fwN=1.50
sdE=485.0
fwE=1.46
20220423T023911.0001.fits
SecZ=1.52
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.1 13.5
ALT/AZ=41.1 -78.9
fwAVG=1.53
sdW=461.1
fwW=1.56
sdS=1420.3
fwS=1.61
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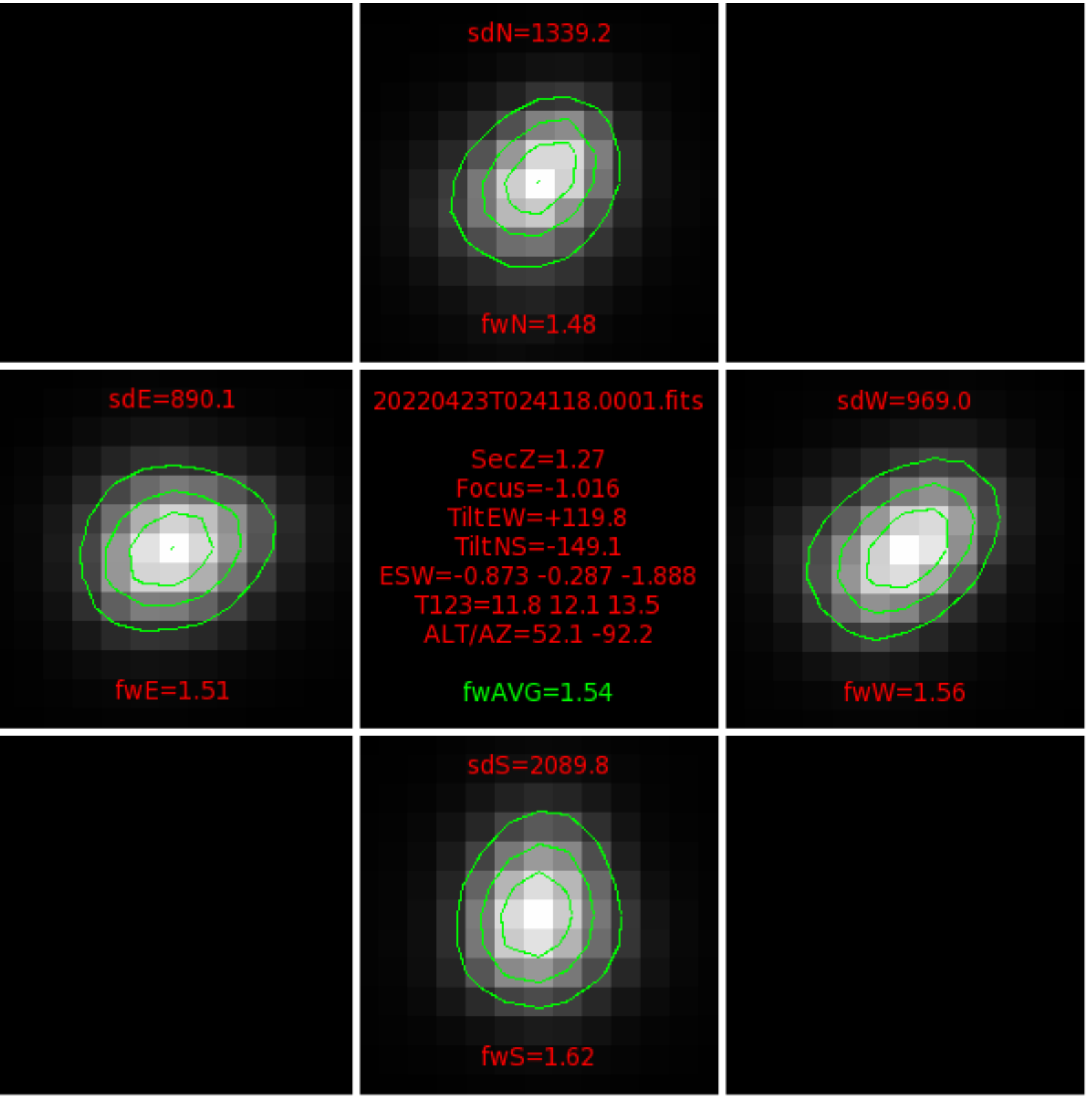
sdN=1339.2
fwN=1.48
sdE=890.1
fwE=1.51
20220423T024118.0001.fits
SecZ=1.27
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.8 12.1 13.5
ALT/AZ=52.1 -92.2
fwAVG=1.54
sdW=969.0
fwW=1.56
sdS=2089.8
fwS=1.62
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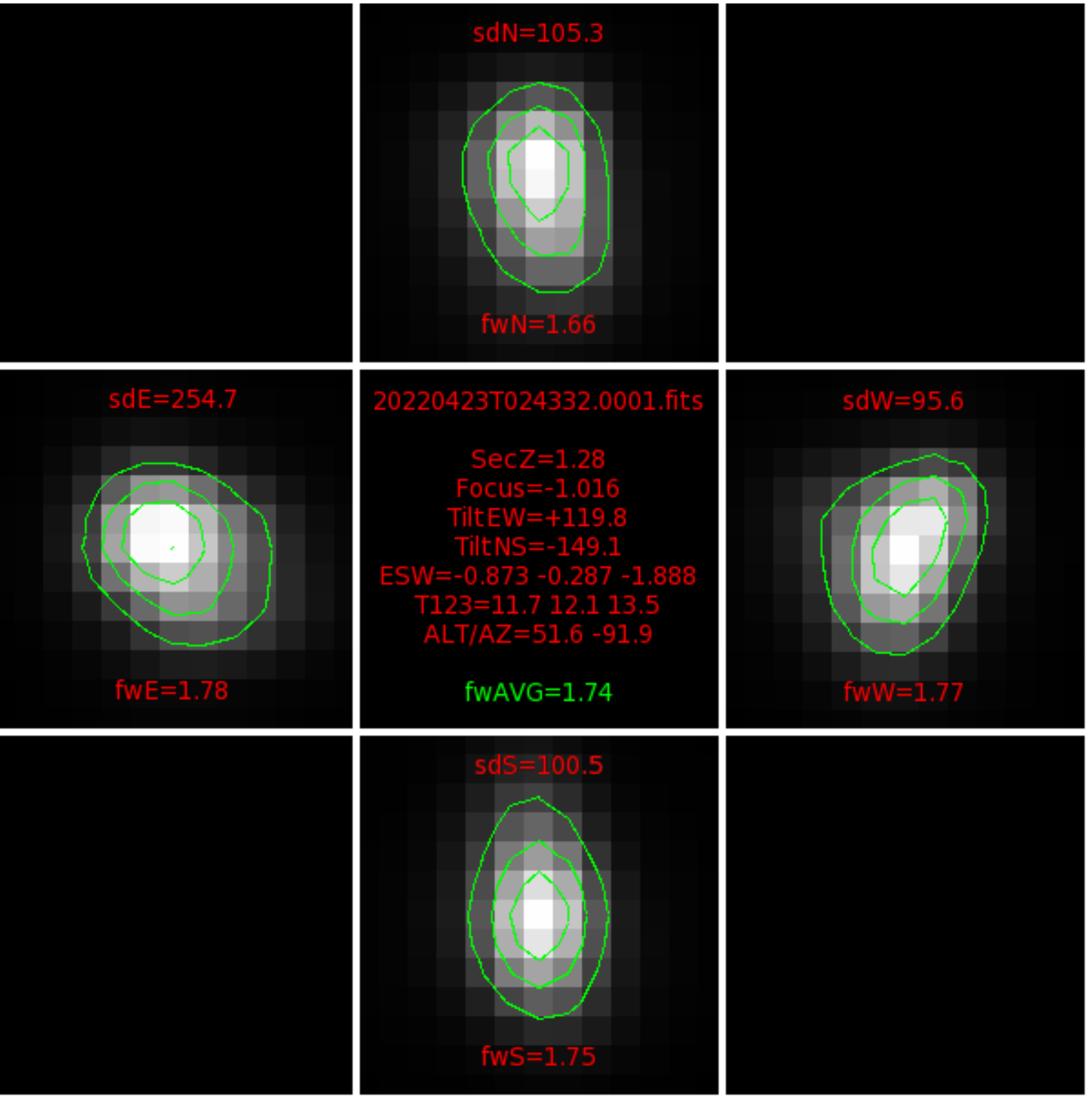
sdN=105.3
fwN=1.66
sdE=254.7
fwE=1.78
20220423T024332.0001.fits
SecZ=1.28
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.1 13.5
ALT/AZ=51.6 -91.9
fwAVG=1.74
sdW=95.6
fwW=1.77
sdS=100.5
fwS=1.75
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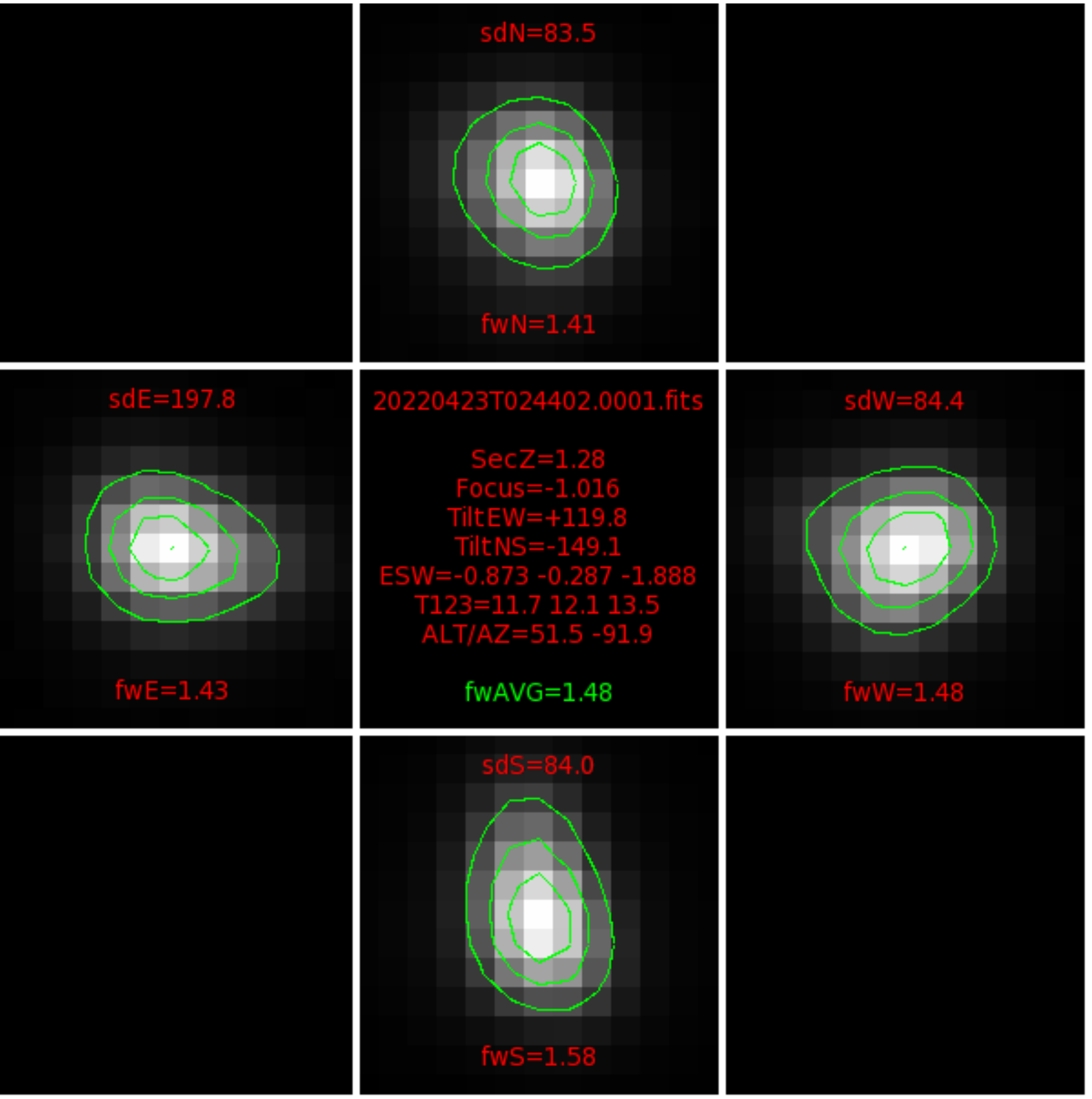
sdN=83.5
fwN=1.41
sdE=197.8
fwE=1.43
20220423T024402.0001.fits
SecZ=1.28
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.1 13.5
ALT/AZ=51.5 -91.9
fwAVG=1.48
sdW=84.4
fwW=1.48
sdS=84.0
fwS=1.58
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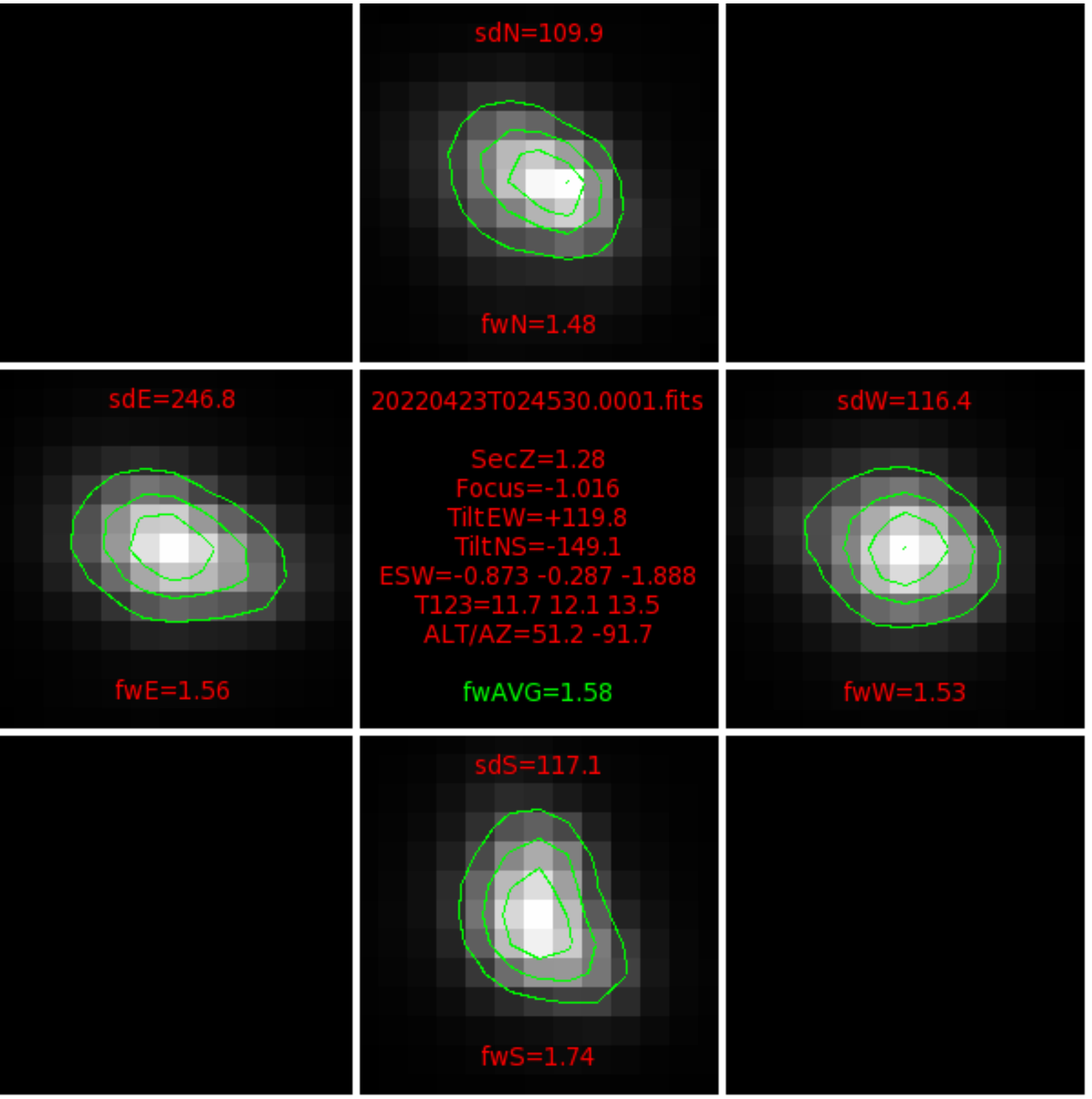
sdN=109.9
fwN=1.48
sdE=246.8
fwE=1.56
20220423T024530.0001.fits
SecZ=1.28
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.1 13.5
ALT/AZ=51.2 -91.7
fwAVG=1.58
sdW=116.4
fwW=1.53
sdS=117.1
fwS=1.74
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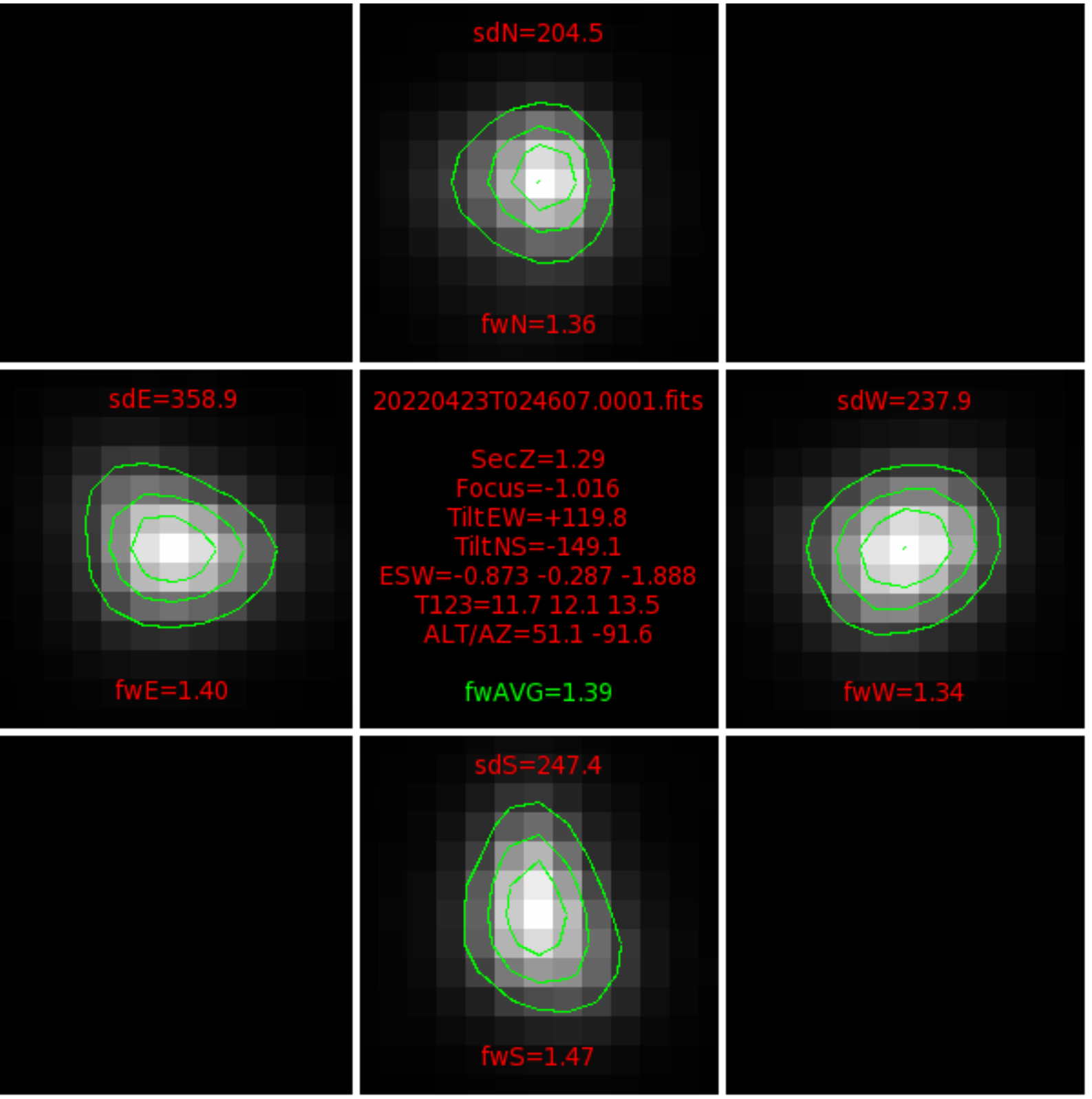
sdN=204.5
fwN=1.36
sdE=358.9
fwE=1.40
20220423T024607.0001.fits
SecZ=1.29
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.1 13.5
ALT/AZ=51.1 -91.6
fwAVG=1.39
sdW=237.9
fwW=1.34
sdS=247.4
fwS=1.47
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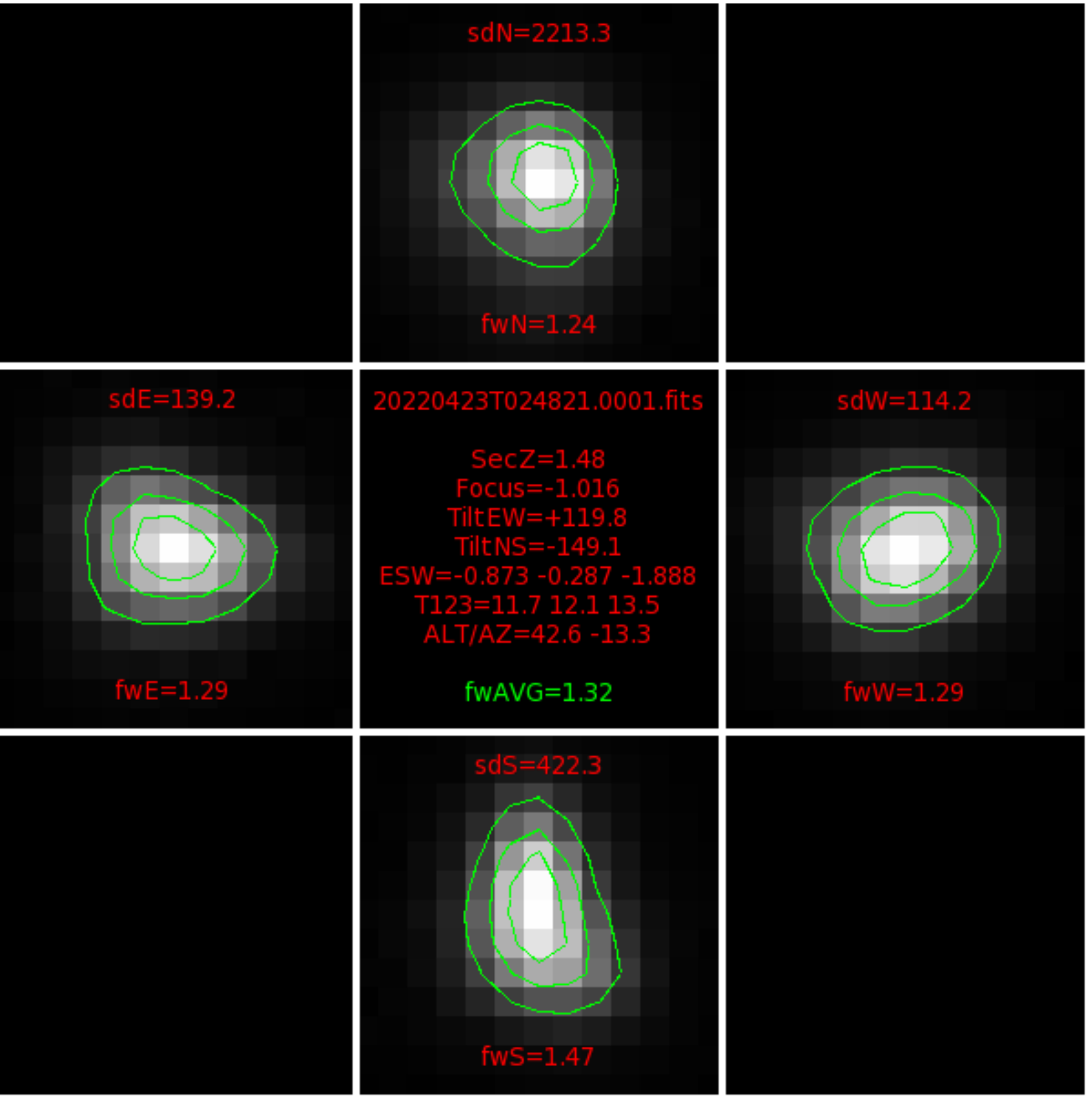
sdN=2213.3
fwN=1.24
sdE=139.2
fwE=1.29
20220423T024821.0001.fits
SecZ=1.48
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.1 13.5
ALT/AZ=42.6 -13.3
fwAVG=1.32
sdW=114.2
fwW=1.29
sdS=422.3
fwS=1.47
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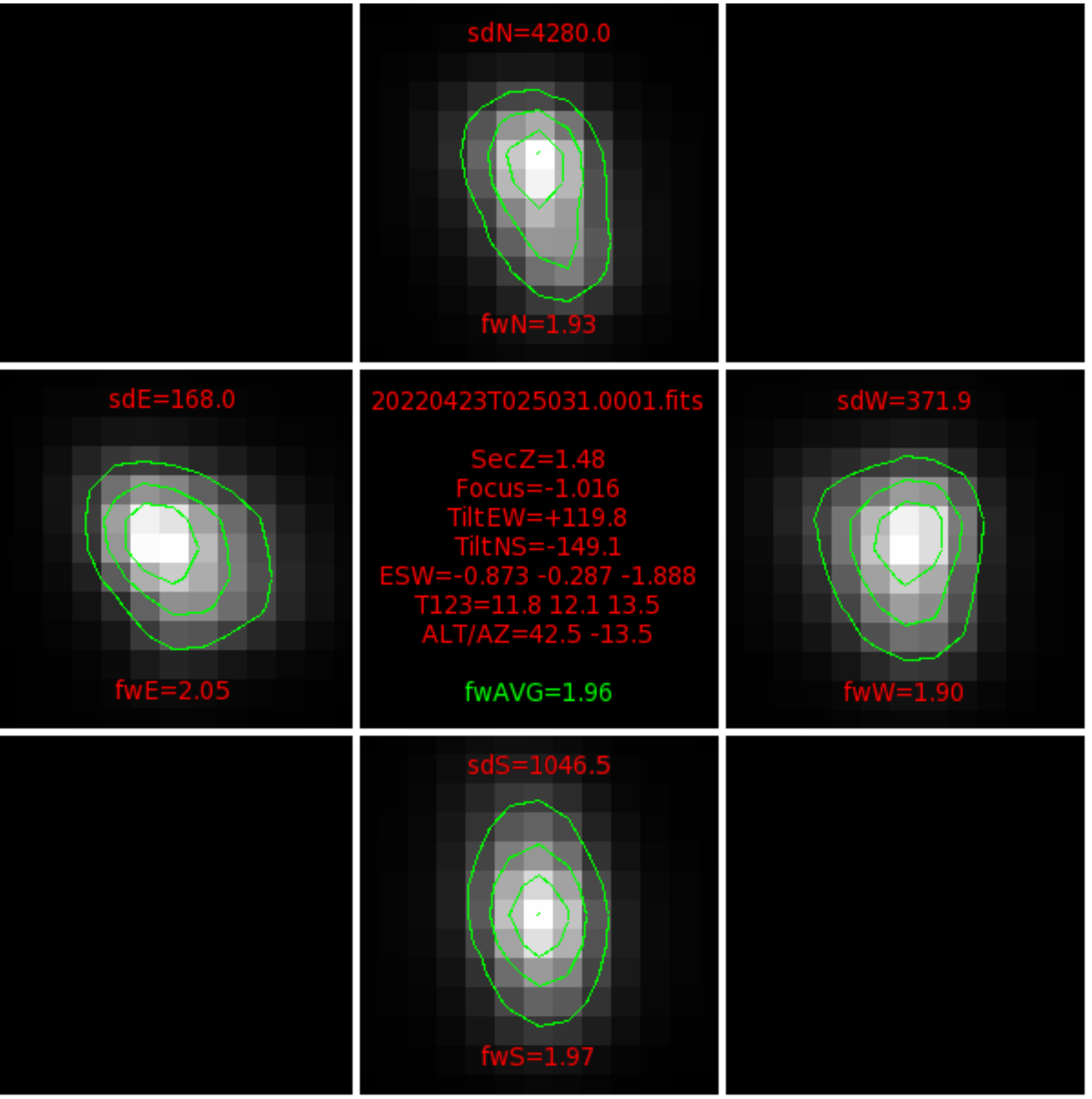
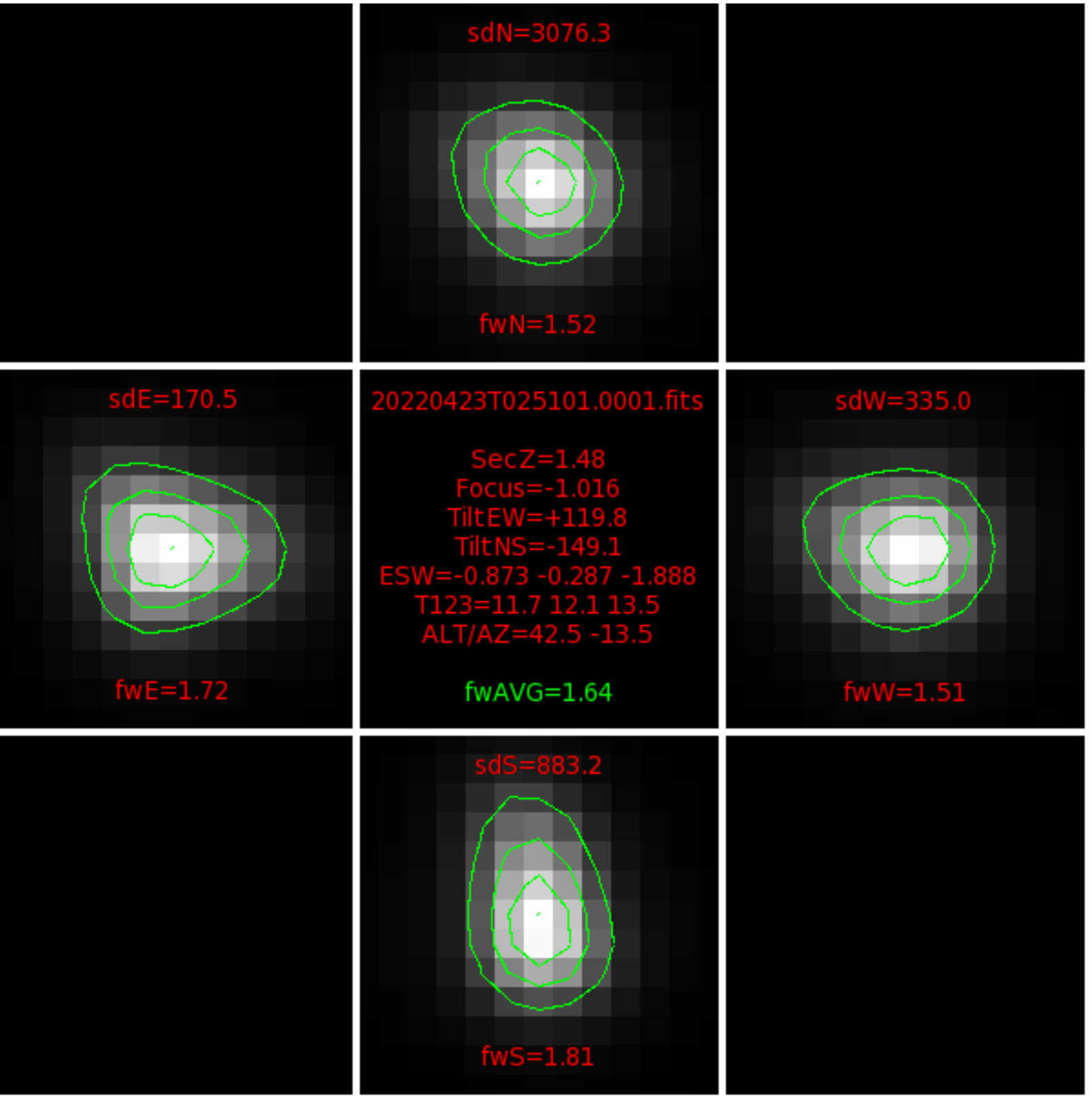

sdN=4280.0
fwN=1.93
sdE=168.0
fwE=2.05
20220423T025031.0001.fits
SecZ=1.48
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.8 12.1 13.5
ALT/AZ=42.5 -13.5
fwAVG=1.96
sdW=371.9
fwW=1.90
sdS=1046.5
fwS=1.97
0 0 0 0 0 0 0 0 0


sdN=3076.3
fwN=1.52
sdE=170.5
fwE=1.72
20220423T025101.0001.fits
SecZ=1.48
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.1 13.5
ALT/AZ=42.5 -13.5
fwAVG=1.64
sdW=335.0
fwW=1.51
sdS=883.2
fwS=1.81
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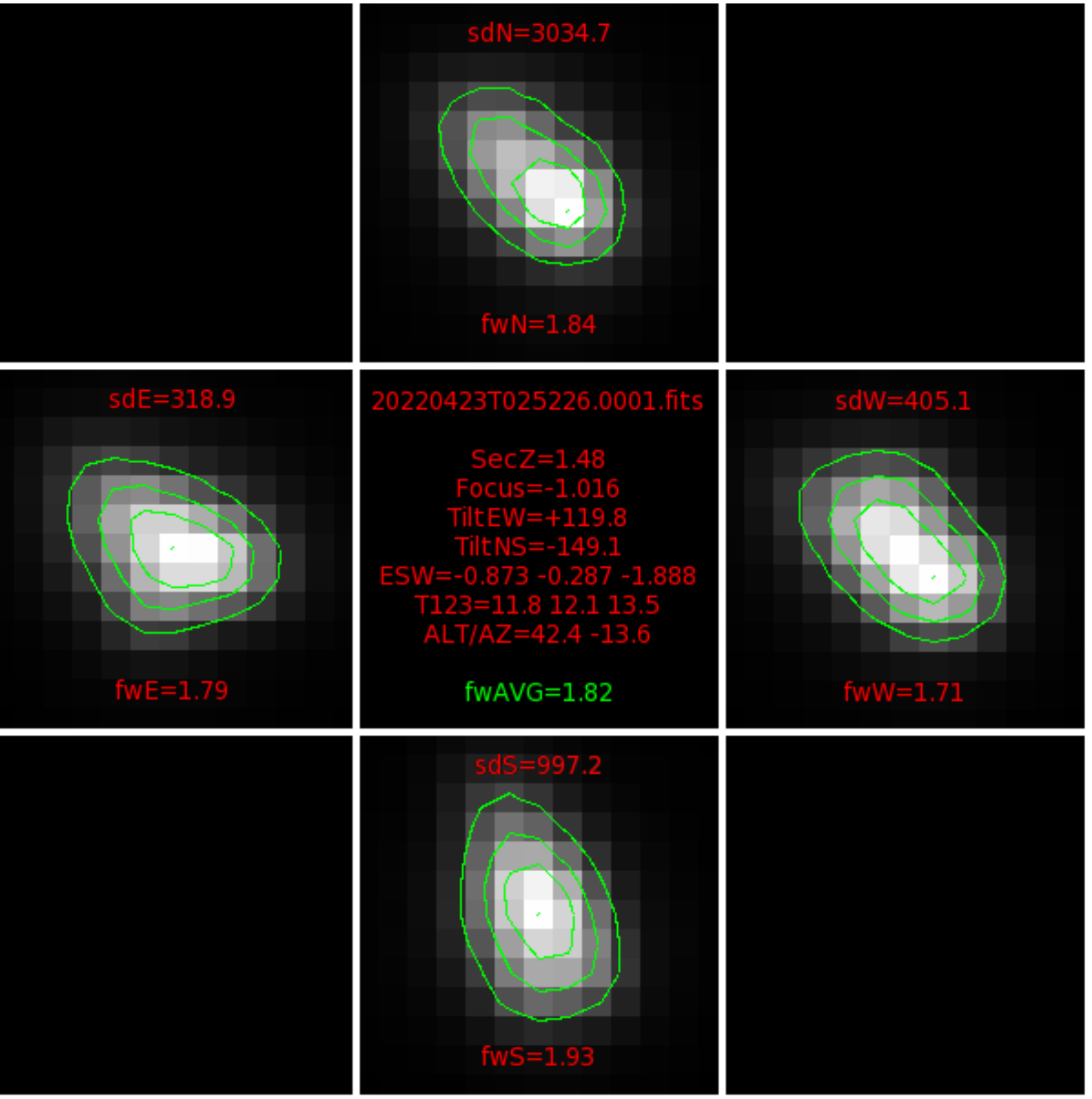
sdN=3034.7
fwN=1.84
sdE=318.9
fwE=1.79
20220423T025226.0001.fits
SecZ=1.48
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.8 12.1 13.5
ALT/AZ=42.4 -13.6
fwAVG=1.82
sdW=405.1
fwW=1.71
sdS=997.2
fwS=1.93
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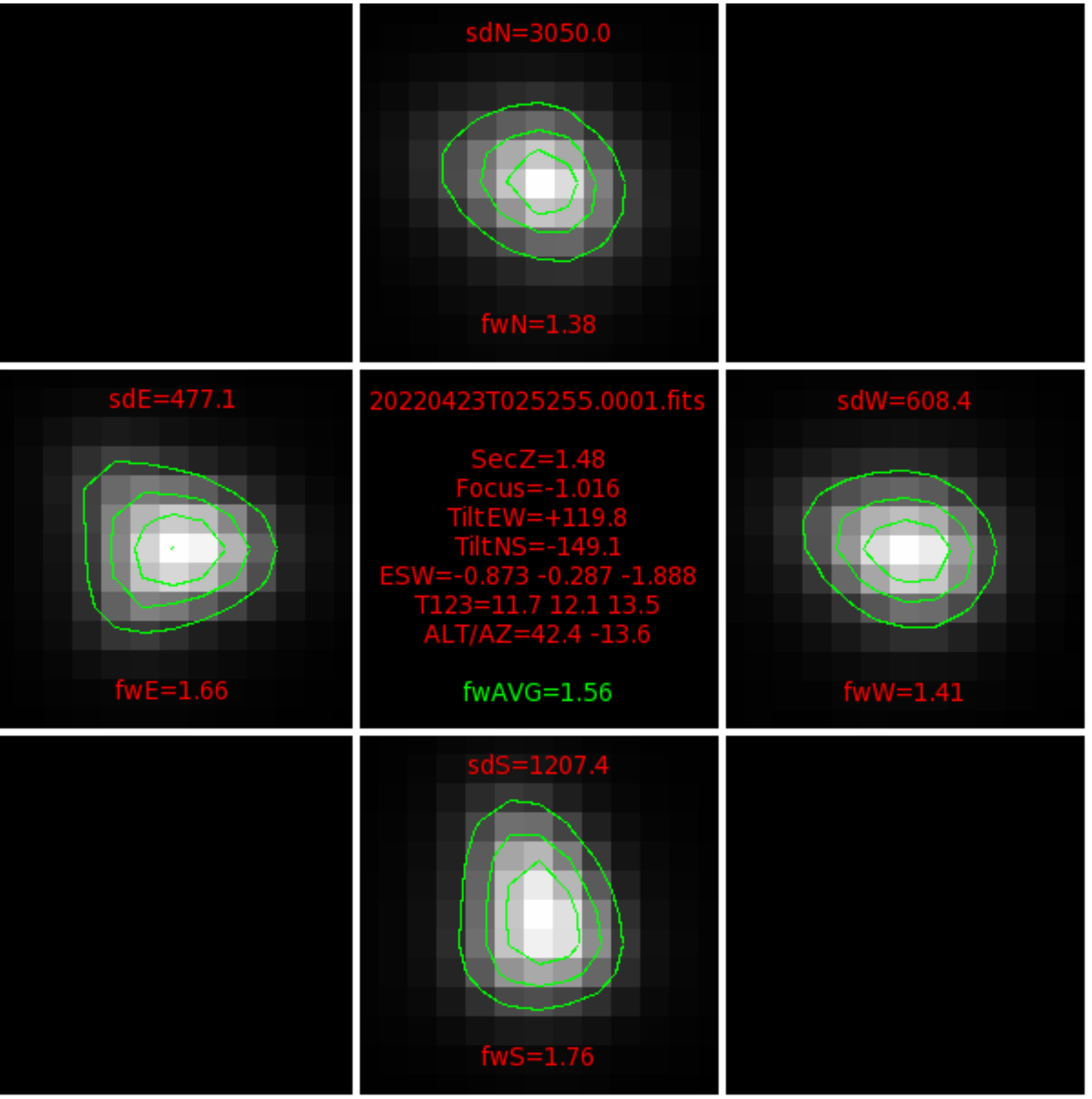
sdN=3050.0
fwN=1.38
sdE=477.1
fwE=1.66
20220423T025255.0001.fits
SecZ=1.48
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.1 13.5
ALT/AZ=42.4 -13.6
fwAVG=1.56
sdW=608.4
fwW=1.41
sdS=1207.4
fwS=1.76
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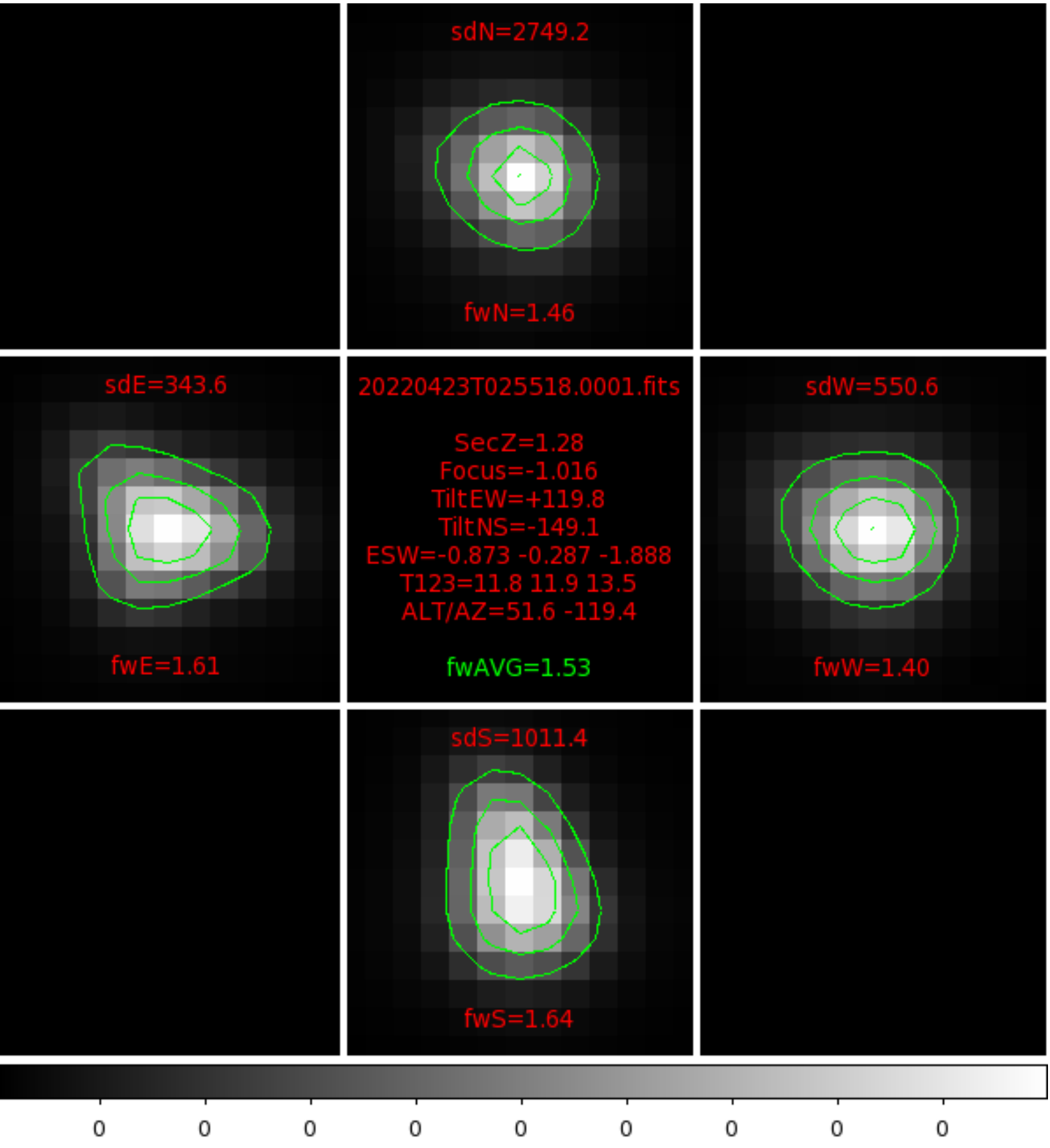
sdN=2749.2
fwN=1.46
sdE=343.6
fwE=1.61
20220423T025518.0001.fits
SecZ=1.28
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.8 11.9 13.5
ALT/AZ=51.6 -119.4
fwAVG=1.53
sdW=550.6
fwW=1.40
sdS=1011.4
fwS=1.64
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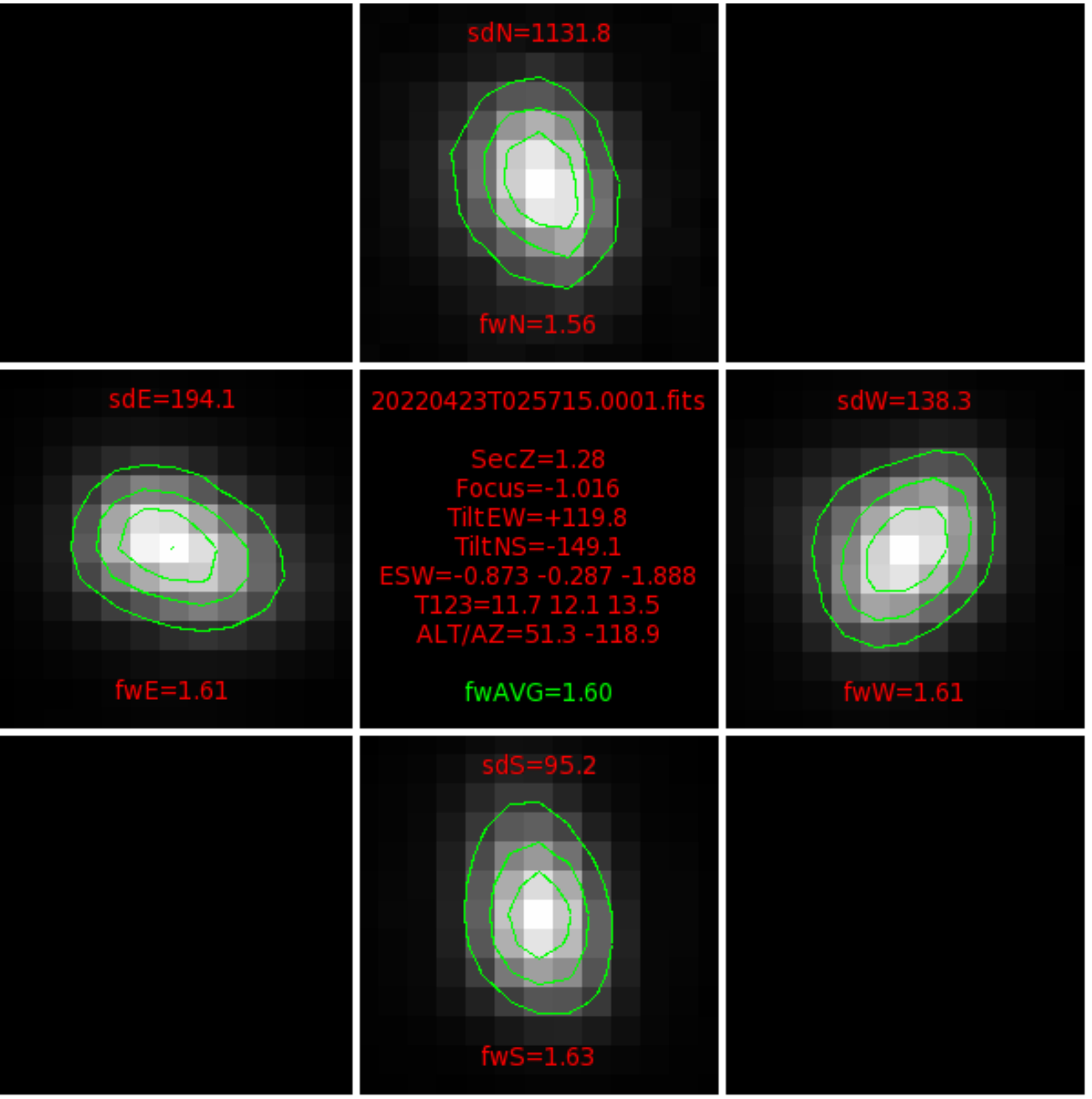
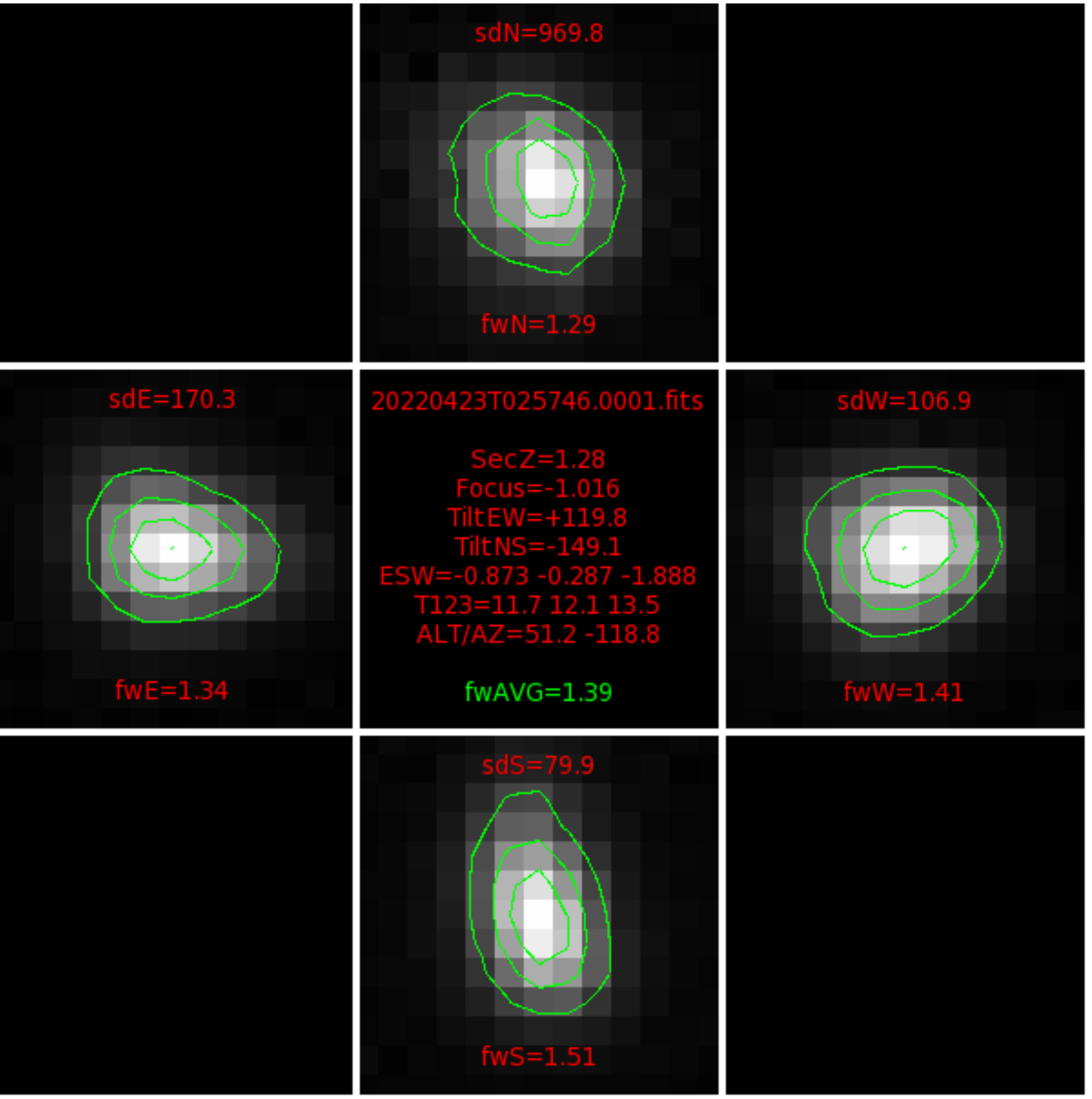

sdN=1131.8
fwN=1.56
sdE=194.1
fwE=1.61
20220423T025715.0001.fits
SecZ=1.28
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.1 13.5
ALT/AZ=51.3 -118.9
fwAVG=1.60
sdW=138.3
fwW=1.61
sdS=95.2
fwS=1.63
0 0 0 0 0 0 0 0 0


sdN=969.8
fwN=1.29
sdE=170.3
fwE=1.34
20220423T025746.0001.fits
SecZ=1.28
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.1 13.5
ALT/AZ=51.2 -118.8
fwAVG=1.39
sdW=106.9
fwW=1.41
sdS=79.9
fwS=1.51
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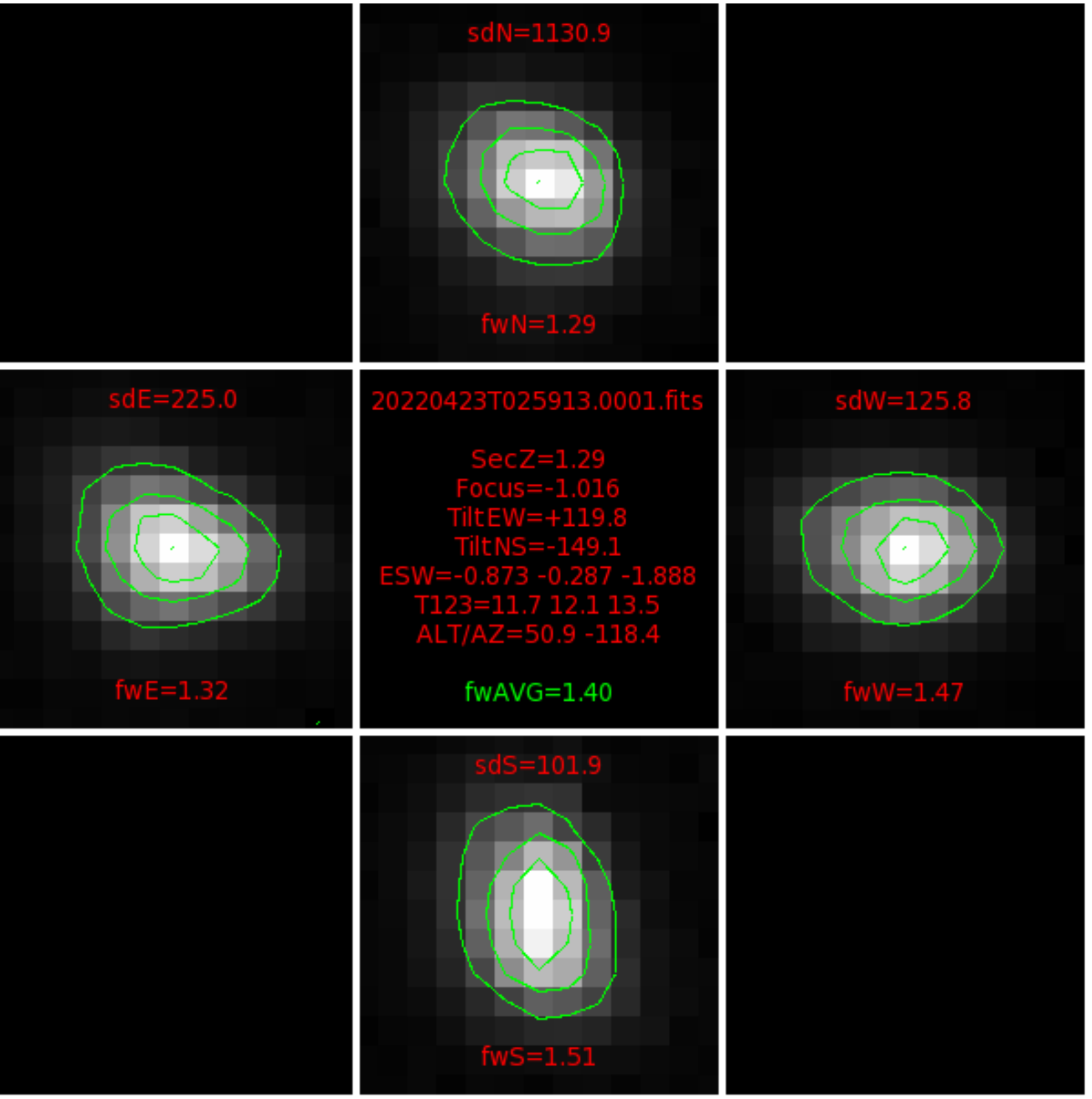
sdN=1130.9
fwN=1.29
sdE=225.0
fwE=1.32
20220423T025913.0001.fits
SecZ=1.29
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.1 13.5
ALT/AZ=50.9 -118.4
fwAVG=1.40
sdW=125.8
fwW=1.47
sdS=101.9
fwS=1.51
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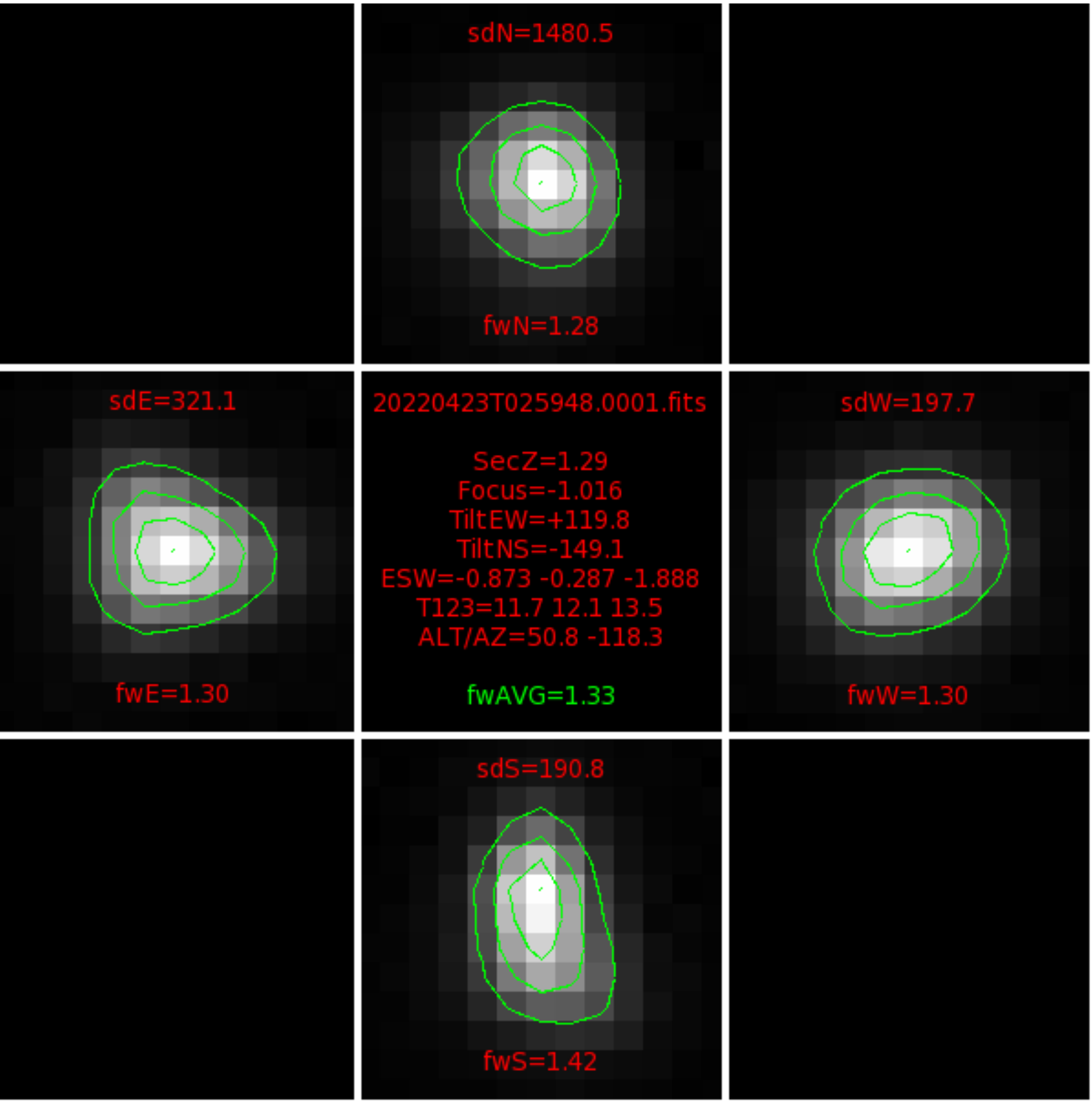
sdN=1480.5
fwN=1.28
sdE=321.1
fwE=1.30
20220423T025948.0001.fits
SecZ=1.29
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.1 13.5
ALT/AZ=50.8 -118.3
fwAVG=1.33
sdW=197.7
fwW=1.30
sdS=190.8
fwS=1.42
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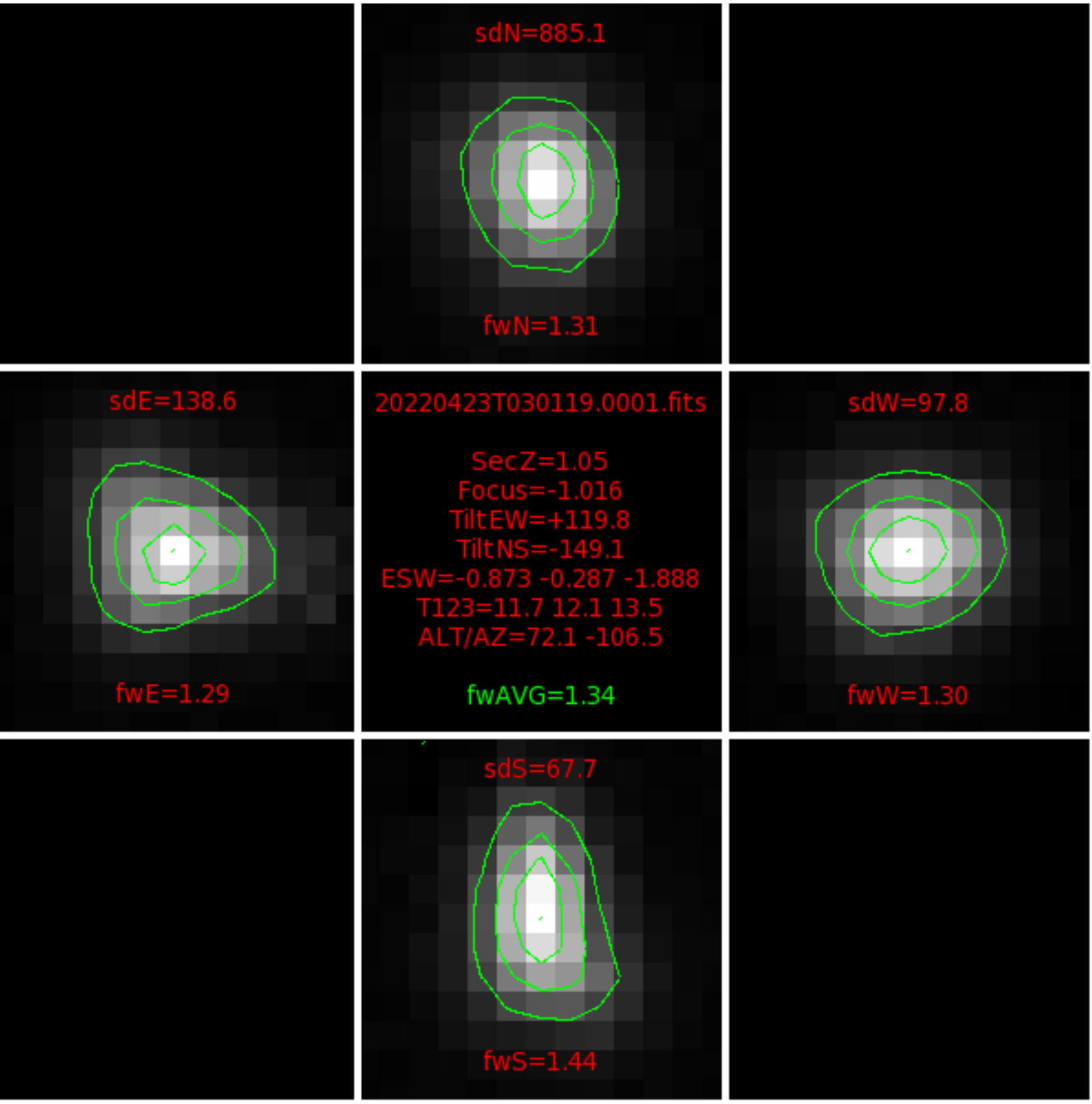
sdN=885.1
fwN=1.31
sdE=138.6
fwE=1.29
20220423T030119.0001.fits
SecZ=1.05
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.1 13.5
ALT/AZ=72.1 -106.5
fwAVG=1.34
sdW=97.8
fwW=1.30
sdS=67.7
fwS=1.44
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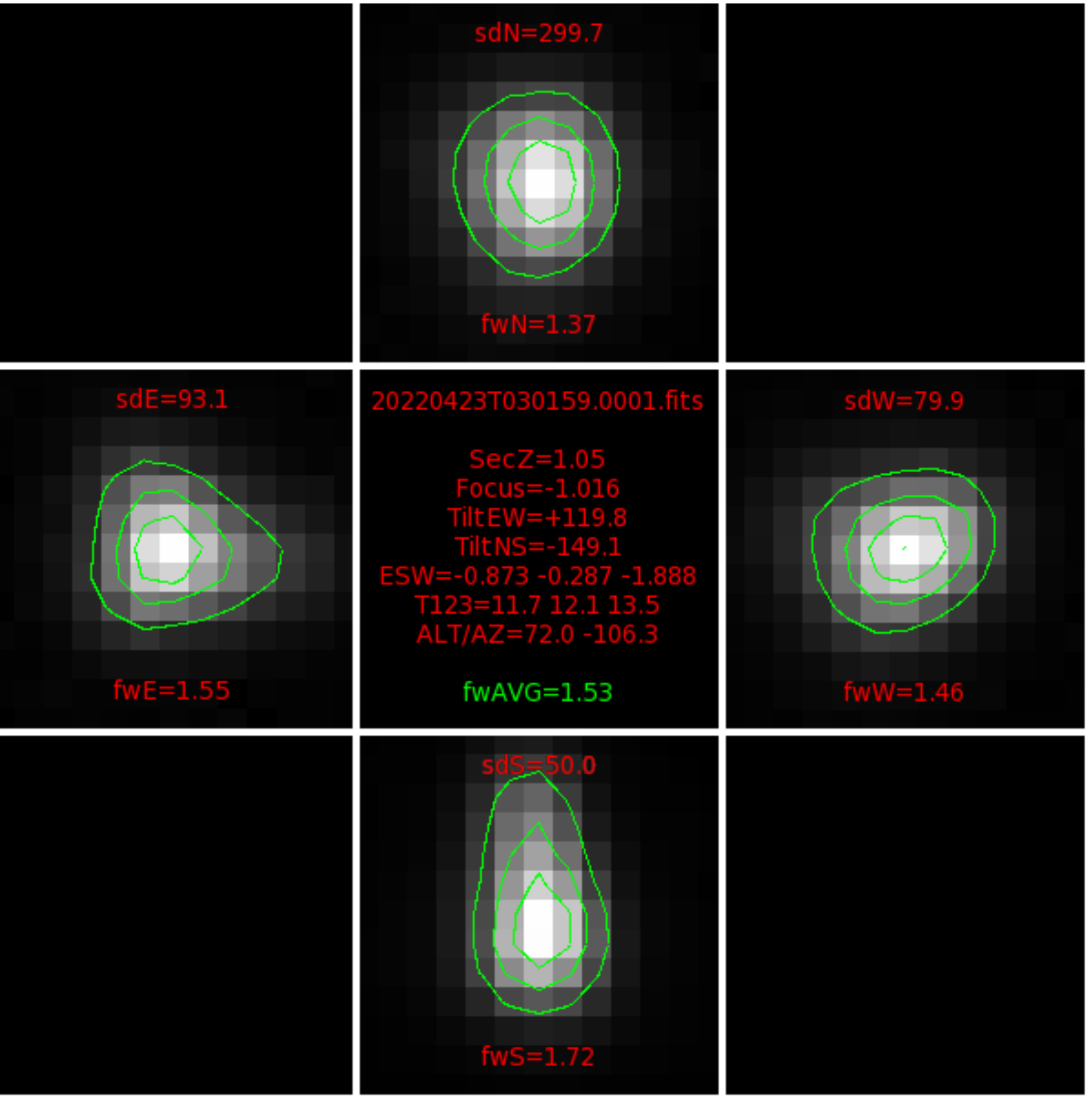
sdN=299.7
fwN=1.37
sdE=93.1
fwE=1.55
20220423T030159.0001.fits
SecZ=1.05
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.1 13.5
ALT/AZ=72.0 -106.3
fwAVG=1.53
sdW=79.9
fwW=1.46
sdS=50.0
fwS=1.72
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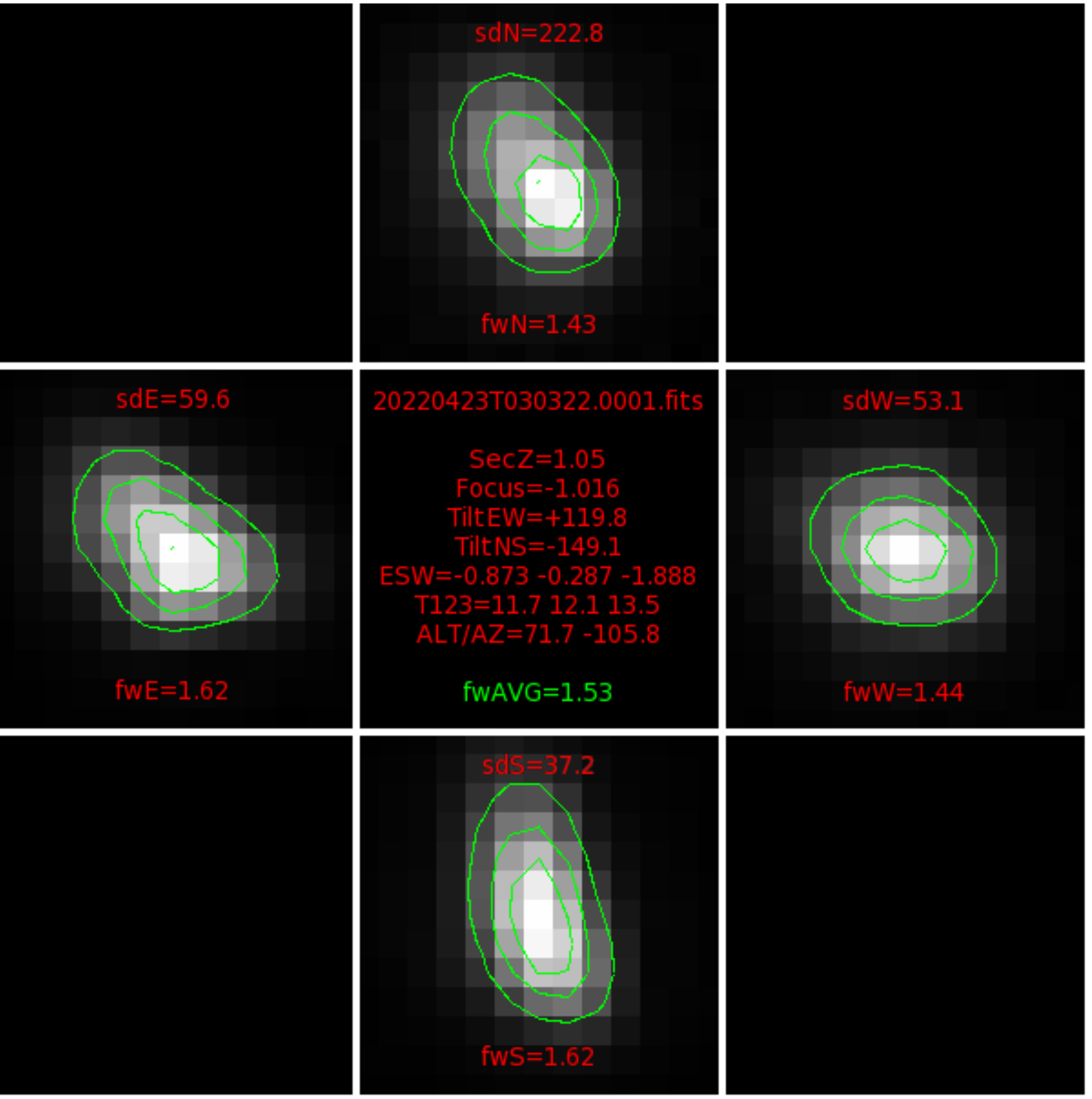
sdN=222.8
fwN=1.43
sdE=59.6
fwE=1.62
20220423T030322.0001.fits
SecZ=1.05
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.1 13.5
ALT/AZ=71.7 -105.8
fwAVG=1.53
sdW=53.1
fwW=1.44
sdS=37.2
fwS=1.62
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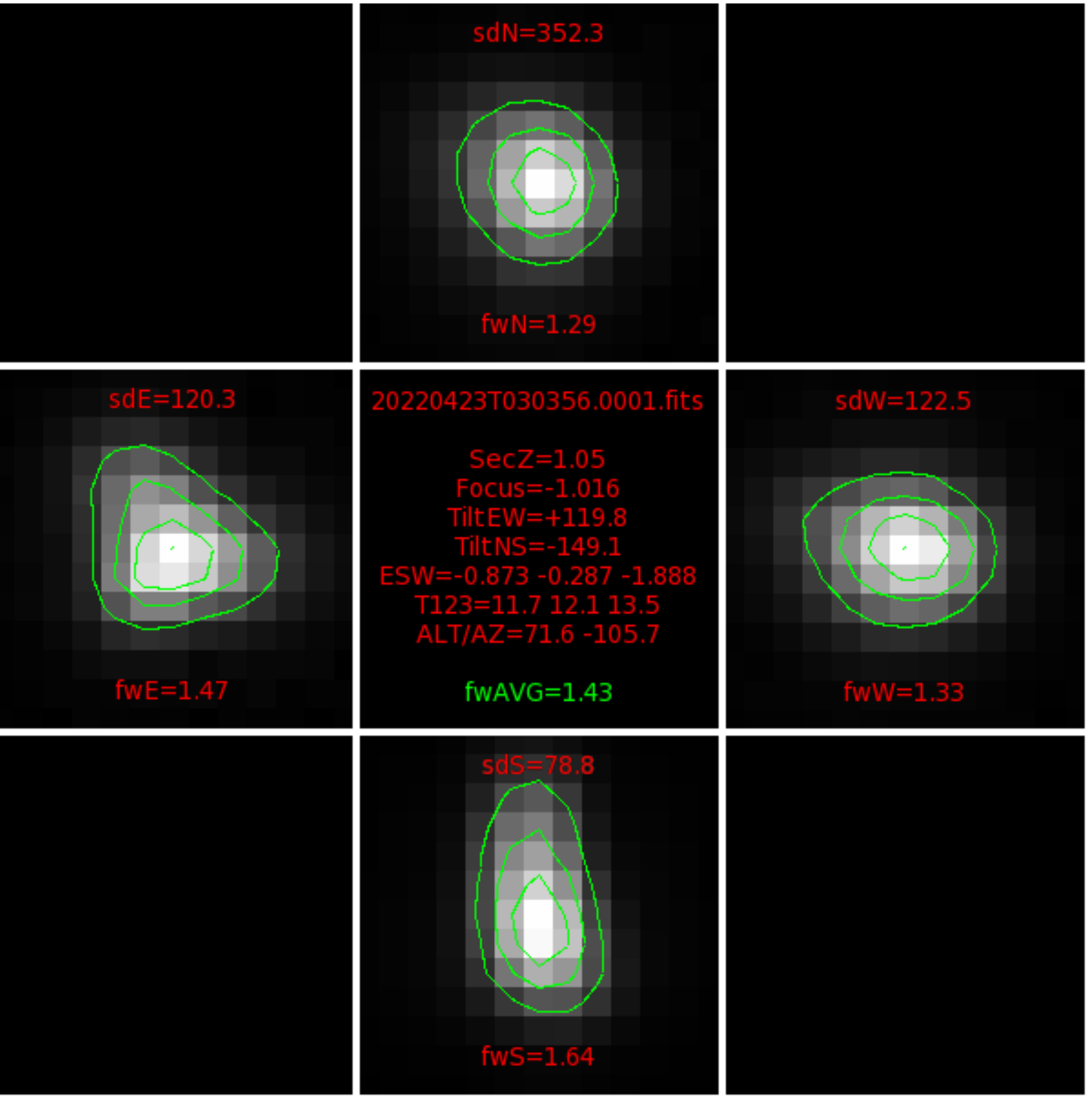
sdN=352.3
fwN=1.29
sdE=120.3
fwE=1.47
20220423T030356.0001.fits
SecZ=1.05
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.1 13.5
ALT/AZ=71.6 -105.7
fwAVG=1.43
sdW=122.5
fwW=1.33
sdS=78.8
fwS=1.64
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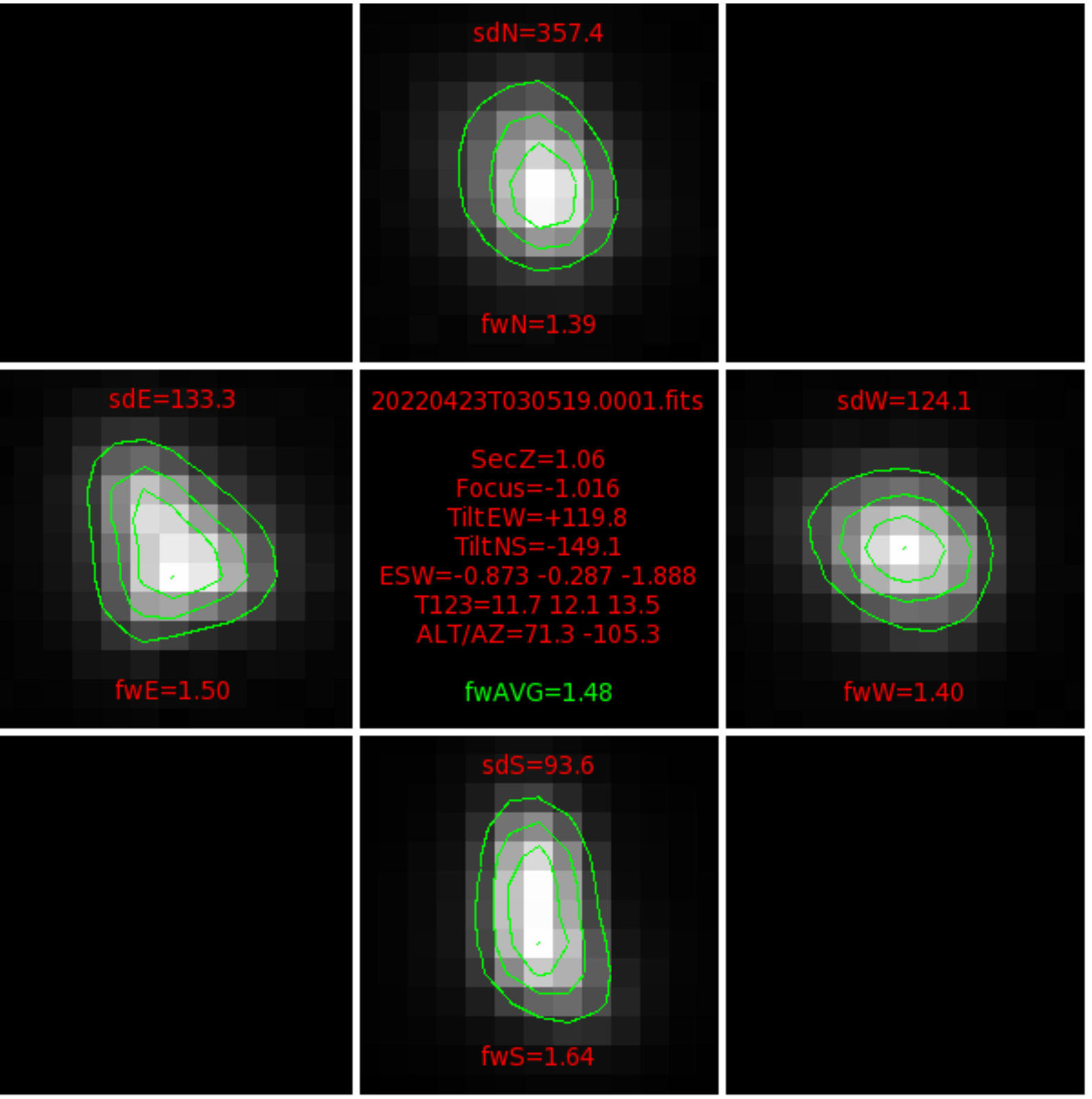
sdN=357.4
fwN=1.39
sdE=133.3
fwE=1.50
20220423T030519.0001.fits
SecZ=1.06
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.1 13.5
ALT/AZ=71.3 -105.3
fwAVG=1.48
sdW=124.1
fwW=1.40
sdS=93.6
fwS=1.64
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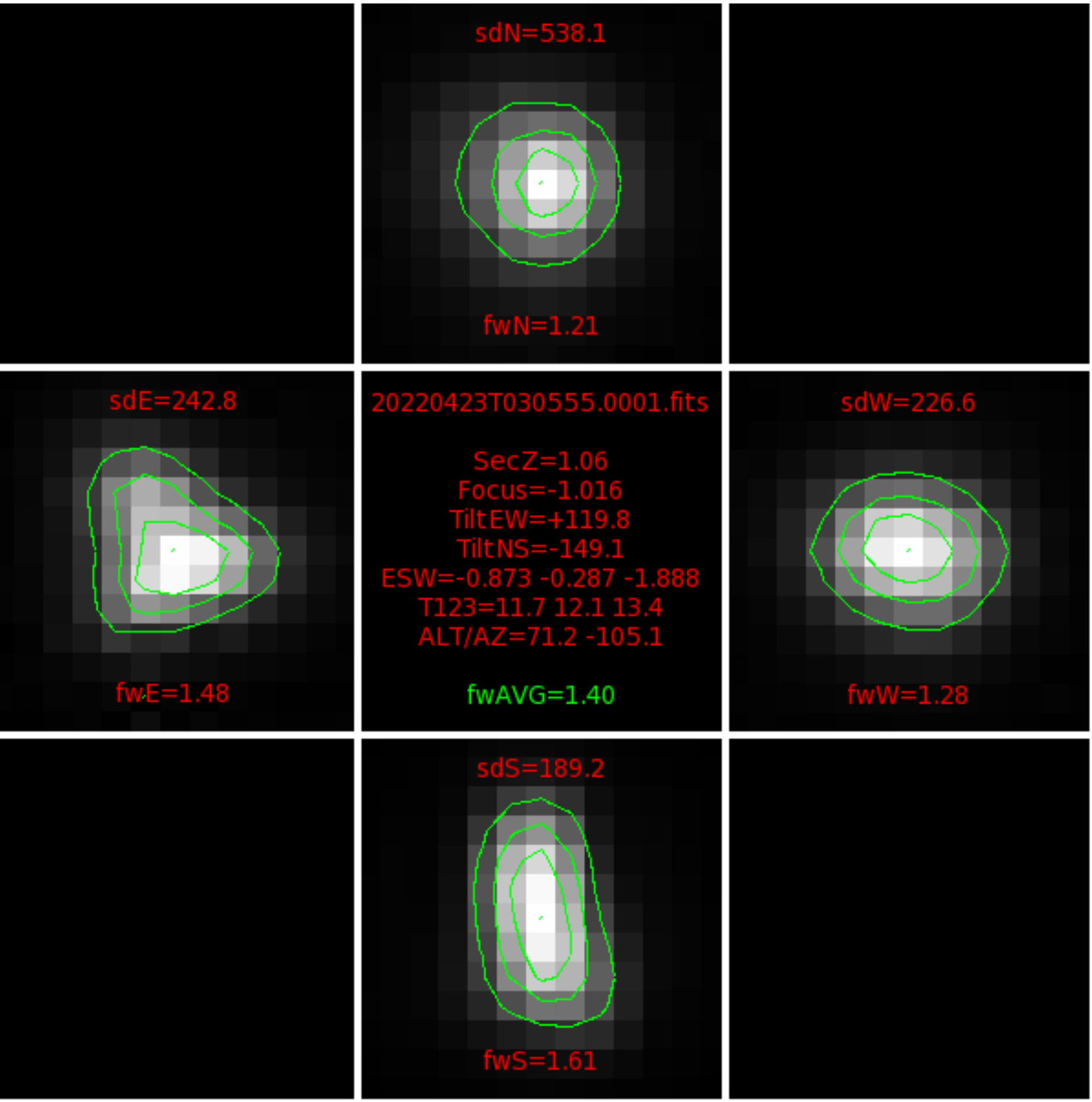
sdN=538.1
fwN=1.21
sdE=242.8
fwE=1.48
20220423T030555.0001.fits
SecZ=1.06
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.1 13.4
ALT/AZ=71.2 -105.1
fwAVG=1.40
sdW=226.6
fwW=1.28
sdS=189.2
fwS=1.61
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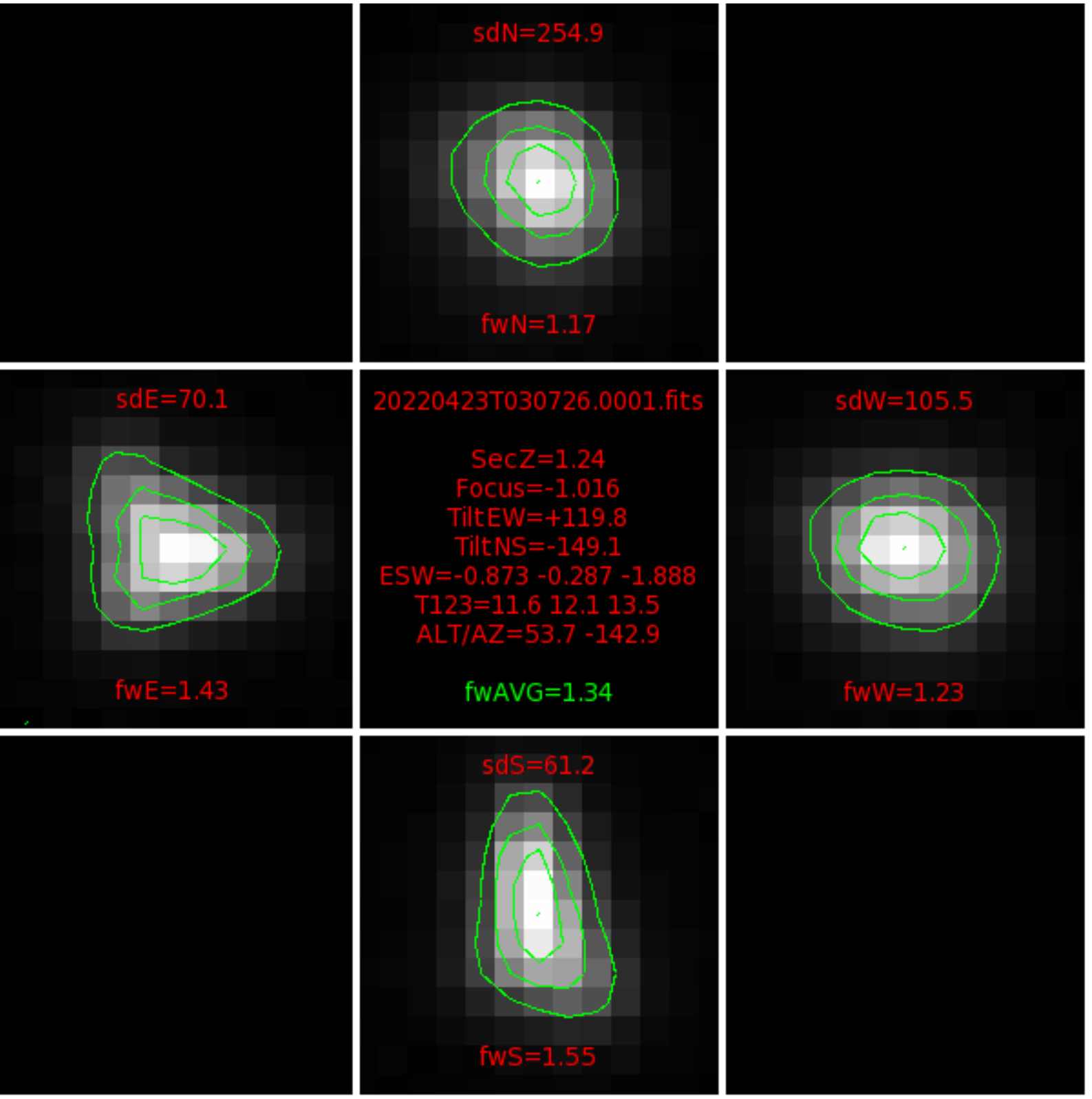
sdN=254.9
fwN=1.17
sdE=70.1
fwE=1.43
20220423T030726.0001.fits
SecZ=1.24
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.6 12.1 13.5
ALT/AZ=53.7 -142.9
fwAVG=1.34
sdW=105.5
fwW=1.23
sdS=61.2
fwS=1.55
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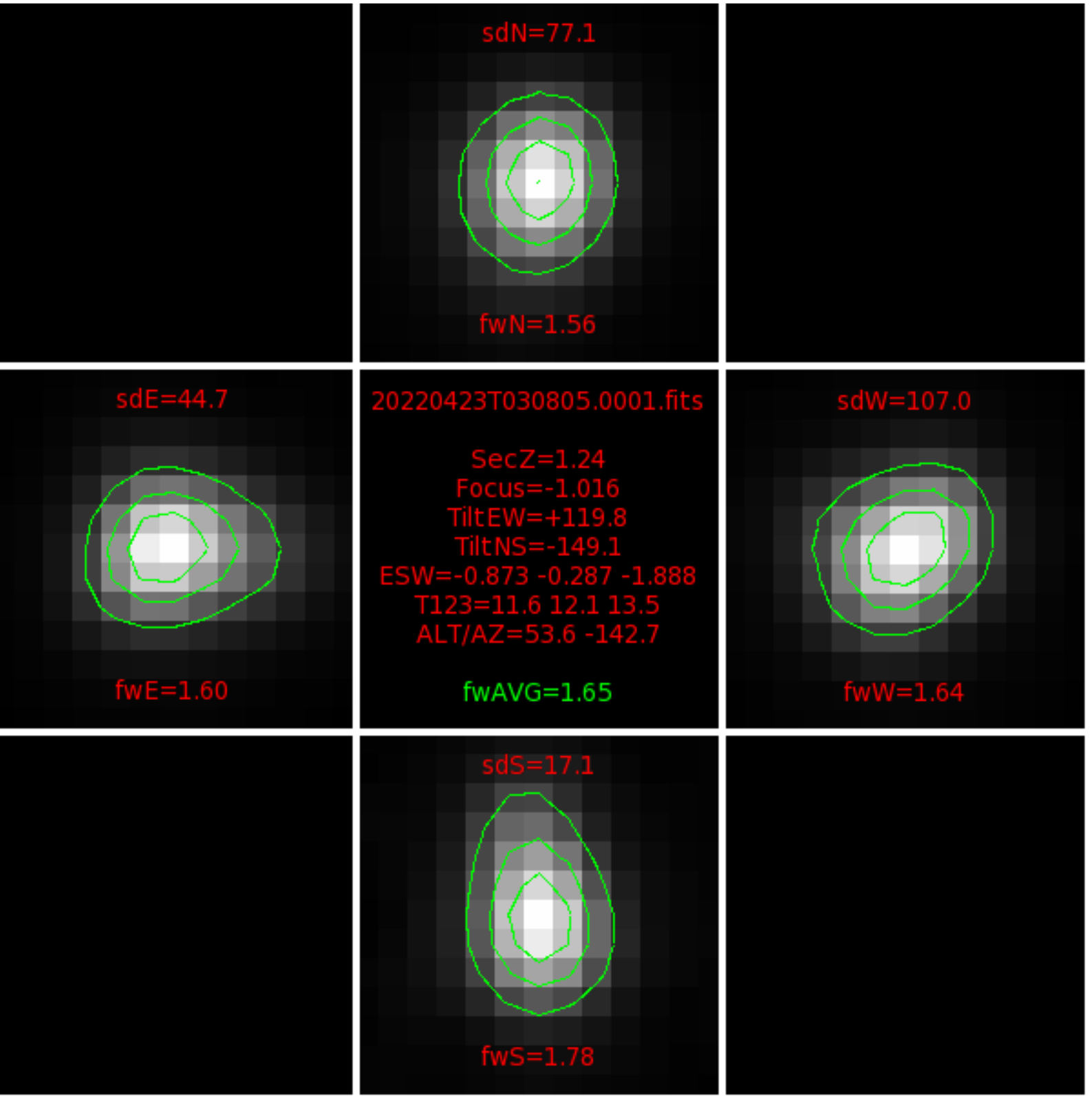
sdN=77.1
fwN=1.56
sdE=44.7
fwE=1.60
20220423T030805.0001.fits
SecZ=1.24
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.6 12.1 13.5
ALT/AZ=53.6 -142.7
fwAVG=1.65
sdW=107.0
fwW=1.64
sdS=17.1
fwS=1.78
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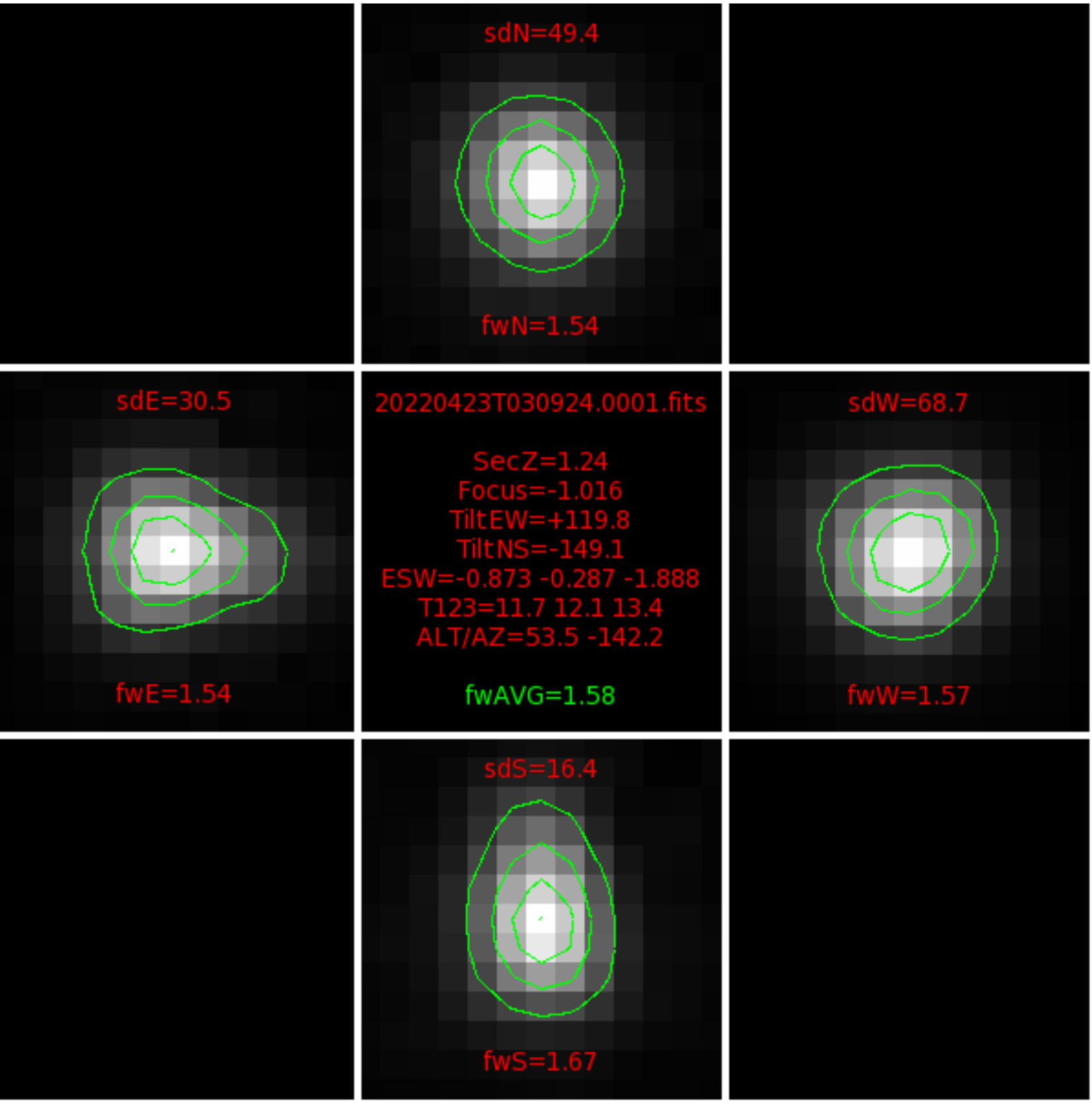
sdN=49.4
fwN=1.54
sdE=30.5
fwE=1.54
20220423T030924.0001.fits
SecZ=1.24
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.1 13.4
ALT/AZ=53.5 -142.2
fwAVG=1.58
sdW=68.7
fwW=1.57
sdS=16.4
fwS=1.67
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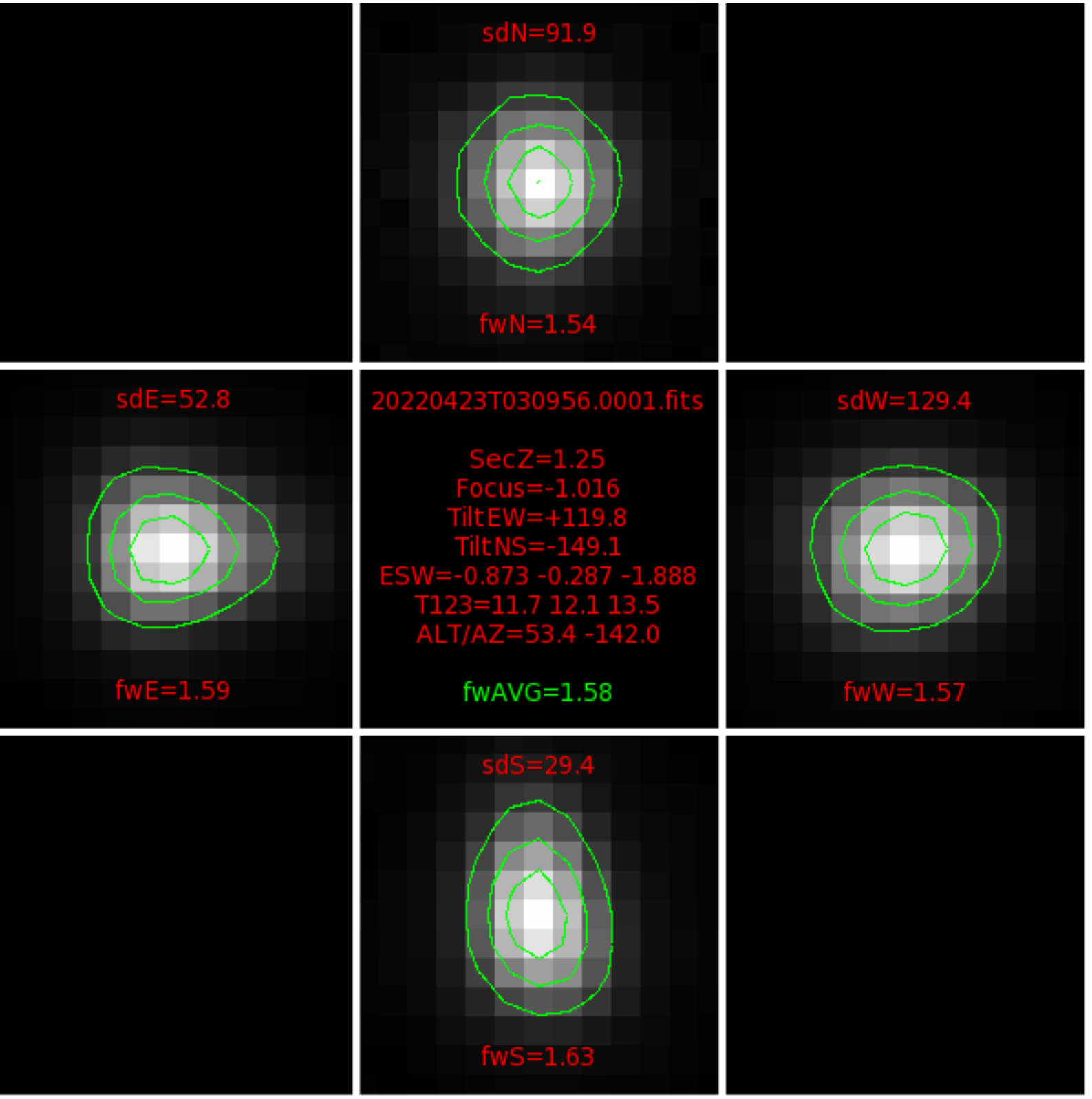
sdN=91.9
fwN=1.54
sdE=52.8
fwE=1.59
20220423T030956.0001.fits
SecZ=1.25
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.1 13.5
ALT/AZ=53.4 -142.0
fwAVG=1.58
sdW=129.4
fwW=1.57
sdS=29.4
fwS=1.63
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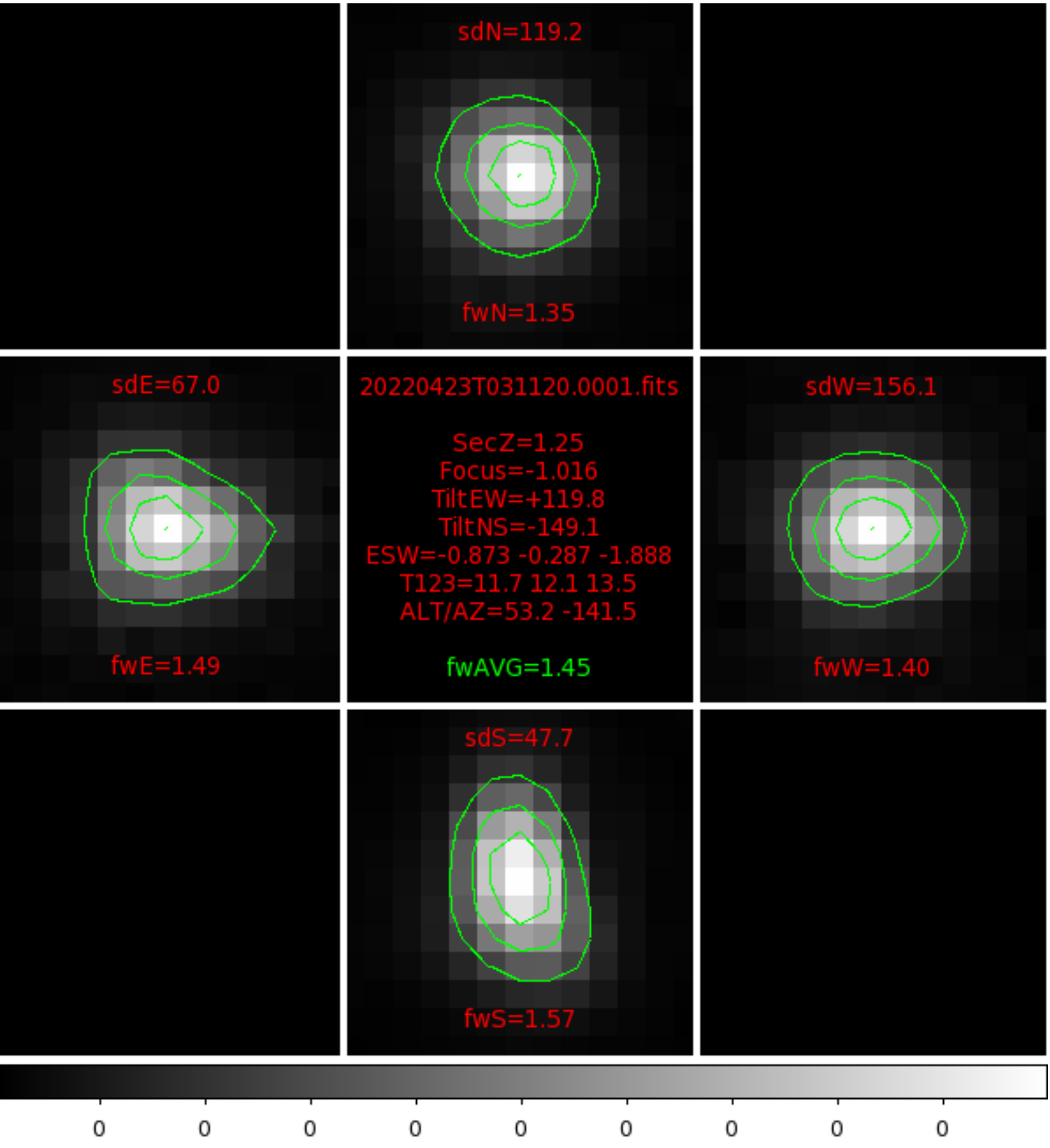
sdN=119.2
fwN=1.35
sdE=67.0
fwE=1.49
20220423T031120.0001.fits
SecZ=1.25
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.1 13.5
ALT/AZ=53.2 -141.5
fwAVG=1.45
sdW=156.1
fwW=1.40
sdS=47.7
fwS=1.57
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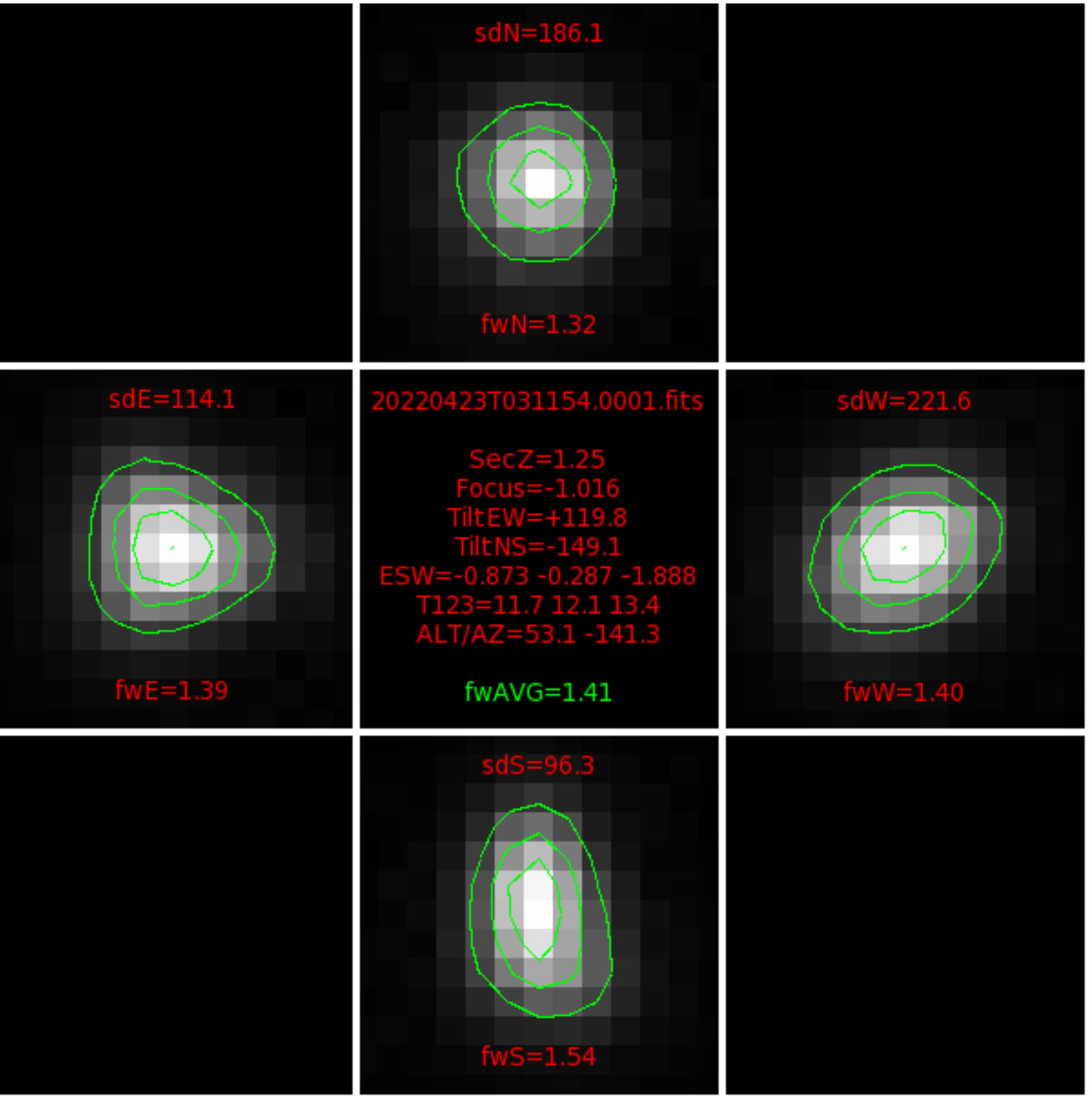
sdN=186.1
fwN=1.32
sdE=114.1
fwE=1.39
20220423T031154.0001.fits
SecZ=1.25
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.1 13.4
ALT/AZ=53.1 -141.3
fwAVG=1.41
sdW=221.6
fwW=1.40
sdS=96.3
fwS=1.54
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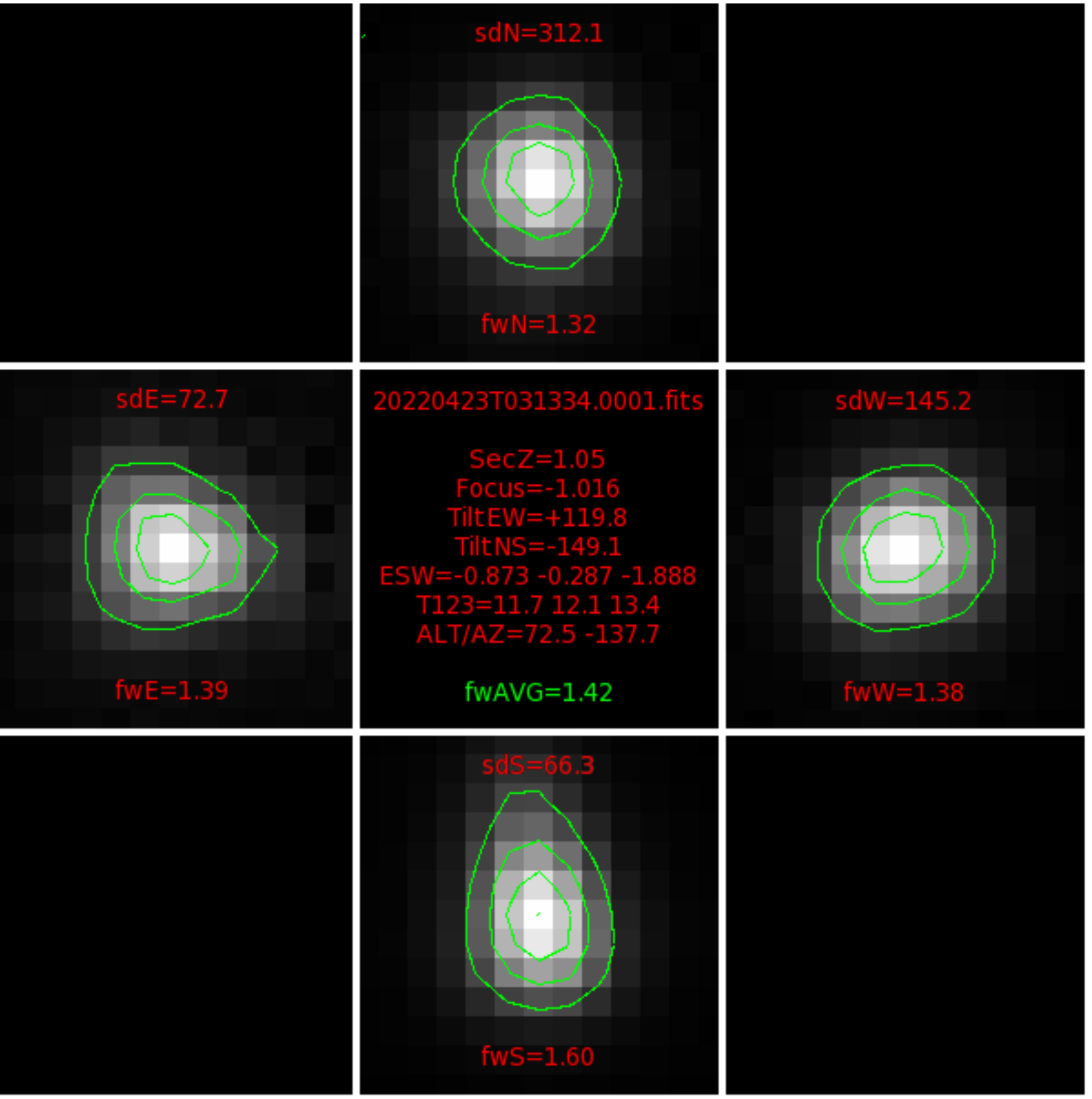
sdN=312.1
fwN=1.32
sdE=72.7
fwE=1.39
20220423T031334.0001.fits
SecZ=1.05
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.1 13.4
ALT/AZ=72.5 -137.7
fwAVG=1.42
sdW=145.2
fwW=1.38
sdS=66.3
fwS=1.60
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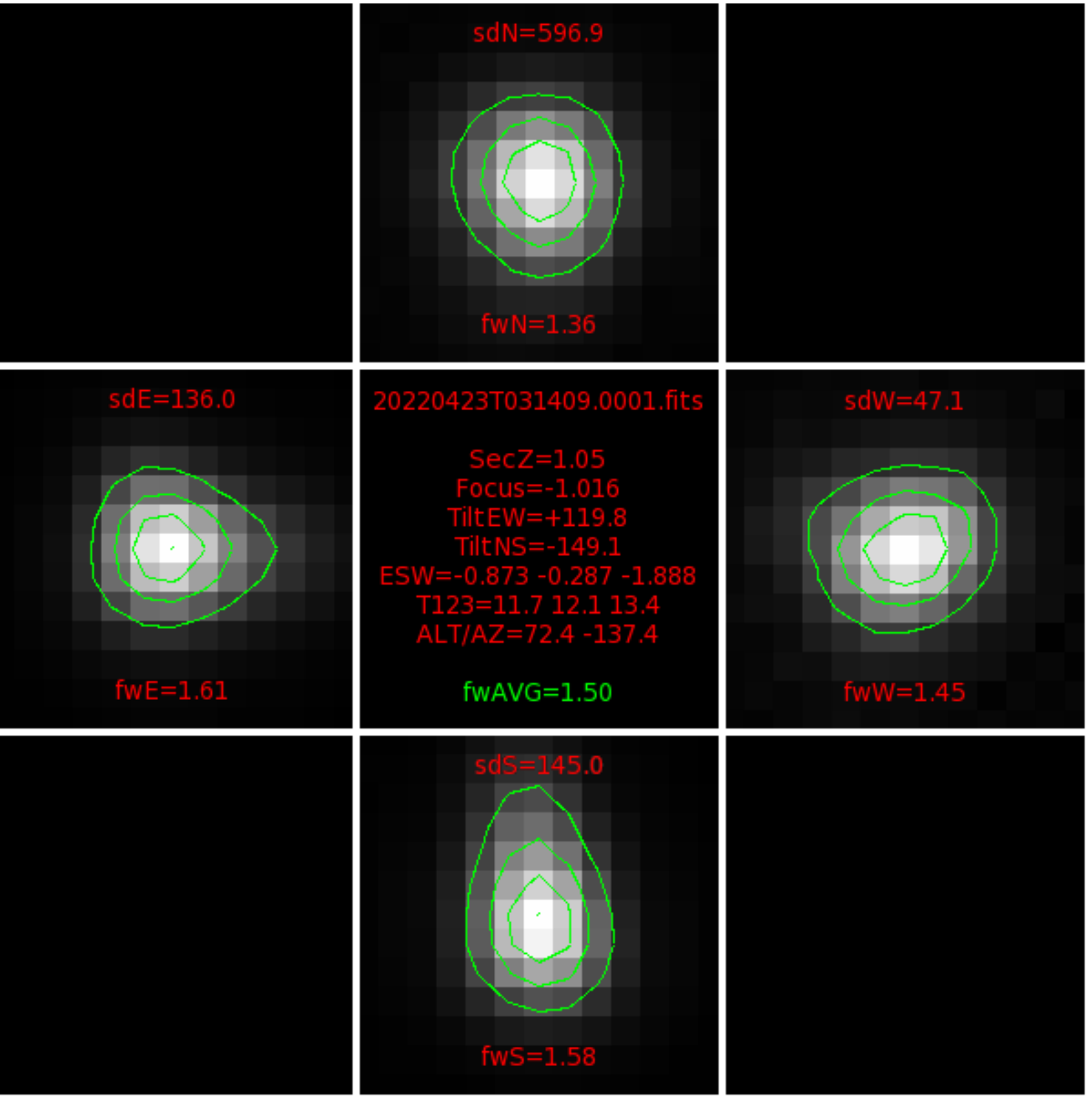
sdN=596.9
fwN=1.36
sdE=136.0
fwE=1.61
20220423T031409.0001.fits
SecZ=1.05
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.1 13.4
ALT/AZ=72.4 -137.4
fwAVG=1.50
sdW=47.1
fwW=1.45
sdS=145.0
fwS=1.58
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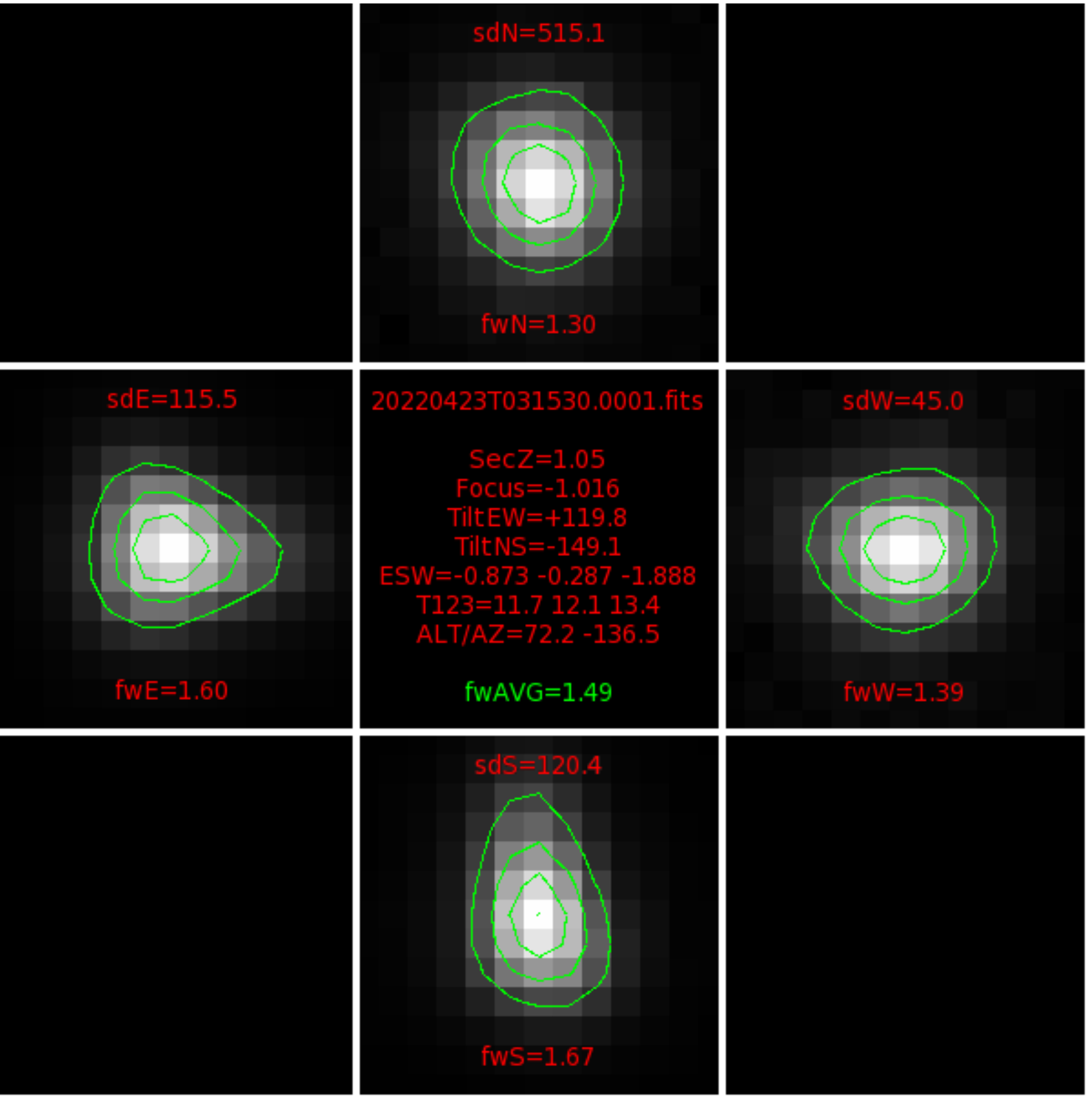
sdN=515.1
fwN=1.30
sdE=115.5
fwE=1.60
20220423T031530.0001.fits
SecZ=1.05
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.1 13.4
ALT/AZ=72.2 -136.5
fwAVG=1.49
sdW=45.0
fwW=1.39
sdS=120.4
fwS=1.67
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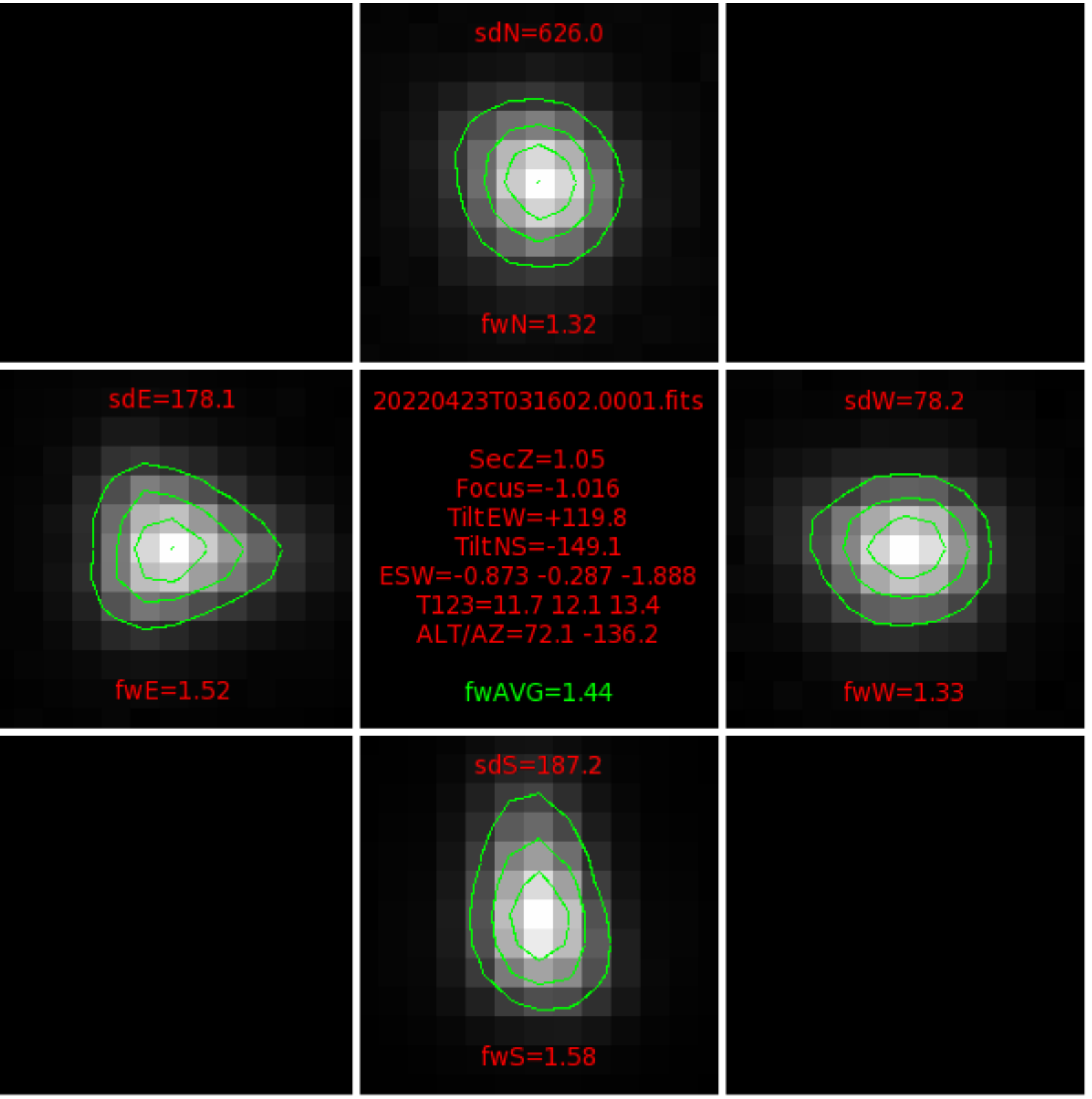
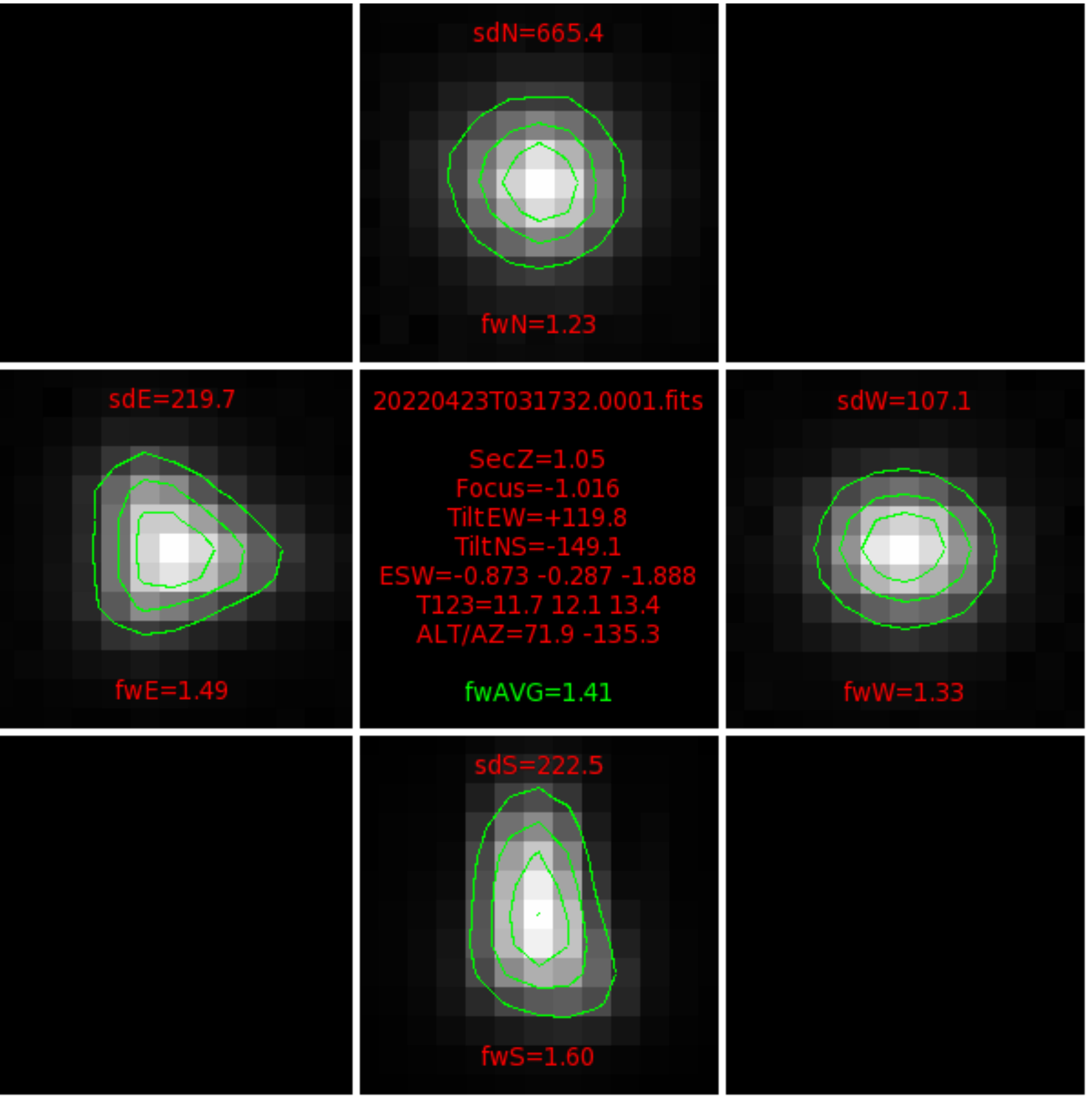

sdN=626.0
fwN=1.32
sdE=178.1
fwE=1.52
20220423T031602.0001.fits
SecZ=1.05
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.1 13.4
ALT/AZ=72.1 -136.2
fwAVG=1.44
sdW=78.2
fwW=1.33
sdS=187.2
fwS=1.58
0 0 0 0 0 0 0 0 0


sdN=665.4
fwN=1.23
sdE=219.7
fwE=1.49
20220423T031732.0001.fits
SecZ=1.05
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.1 13.4
ALT/AZ=71.9 -135.3
fwAVG=1.41
sdW=107.1
fwW=1.33
sdS=222.5
fwS=1.60
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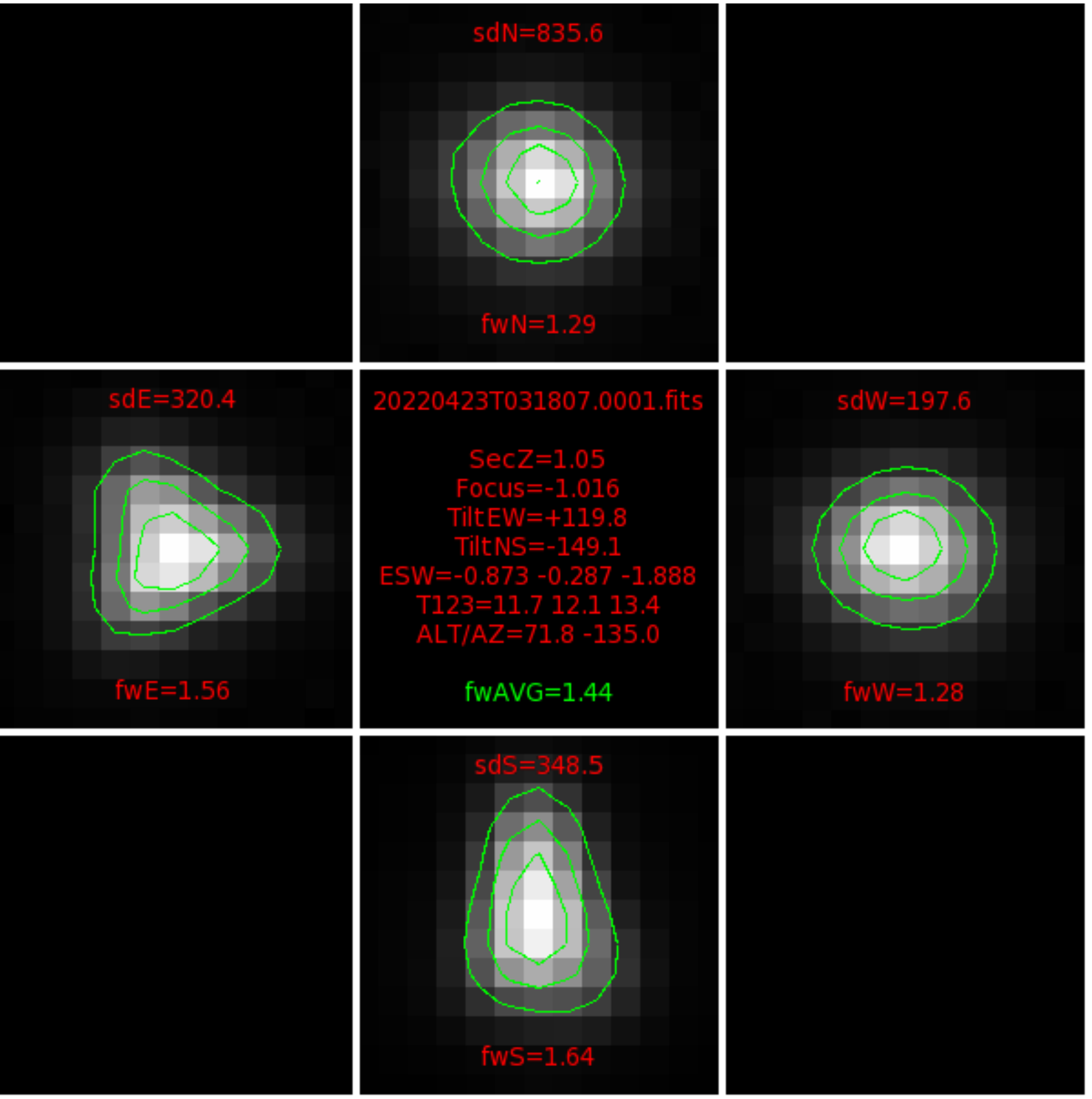
sdN=835.6
fwN=1.29
sdE=320.4
fwE=1.56
20220423T031807.0001.fits
SecZ=1.05
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.1 13.4
ALT/AZ=71.8 -135.0
fwAVG=1.44
sdW=197.6
fwW=1.28
sdS=348.5
fwS=1.64
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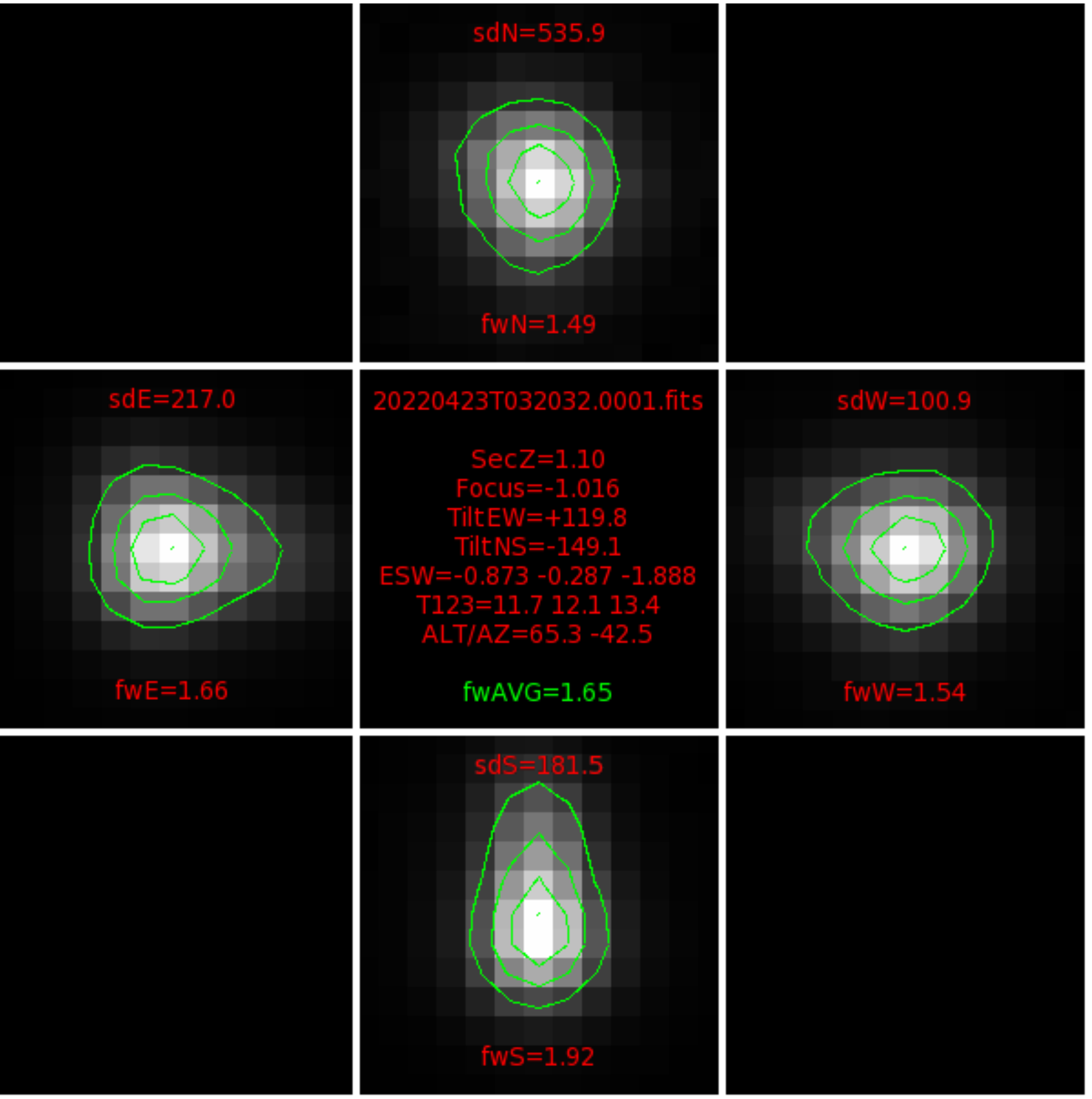
sdN=535.9
fwN=1.49
sdE=217.0
fwE=1.66
20220423T032032.0001.fits
SecZ=1.10
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.1 13.4
ALT/AZ=65.3 -42.5
fwAVG=1.65
sdW=100.9
fwW=1.54
sdS=181.5
fwS=1.92
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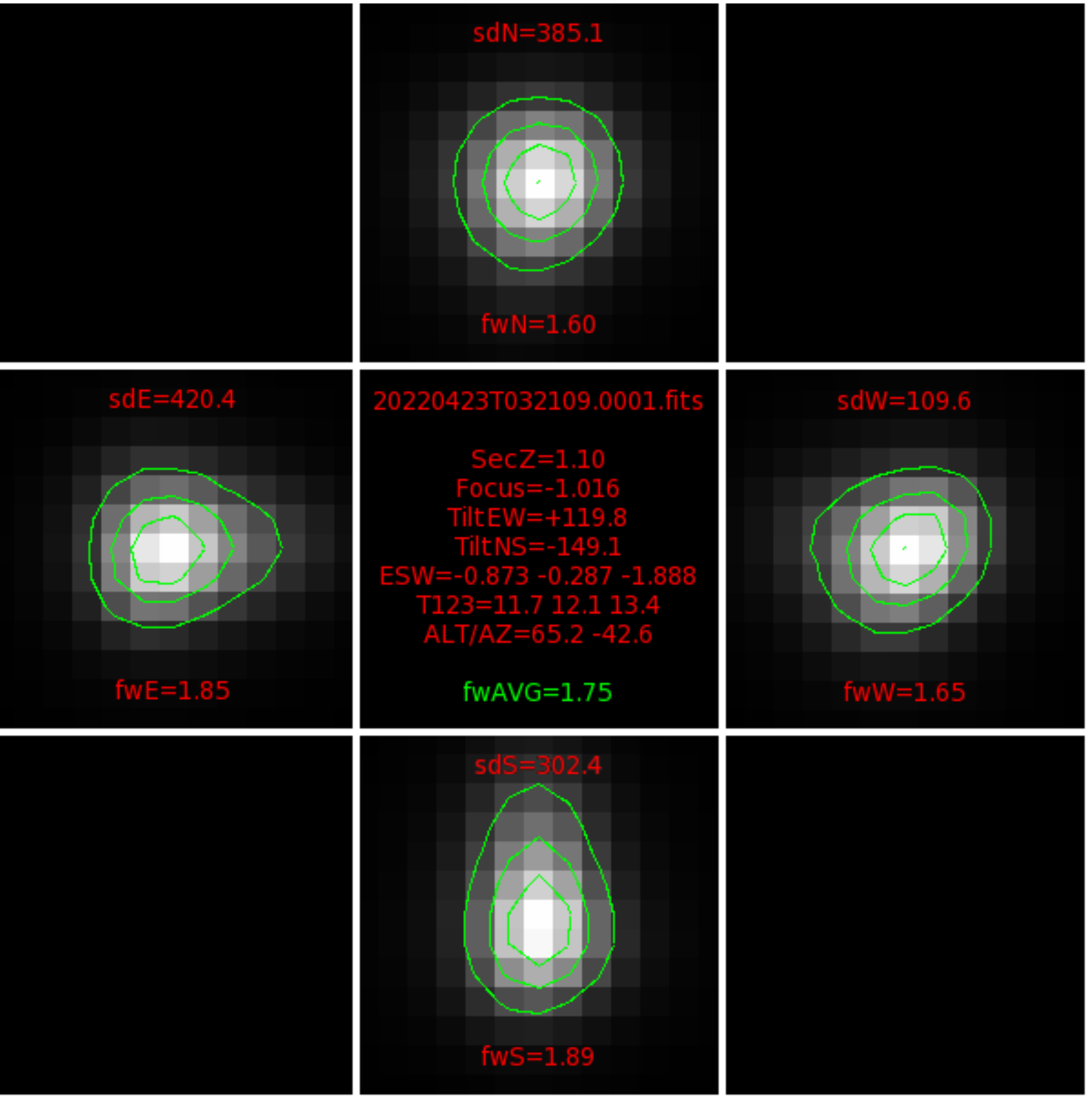
sdN=385.1
fwN=1.60
sdE=420.4
fwE=1.85
20220423T032109.0001.fits
SecZ=1.10
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.1 13.4
ALT/AZ=65.2 -42.6
fwAVG=1.75
sdW=109.6
fwW=1.65
sdS=302.4
fwS=1.89
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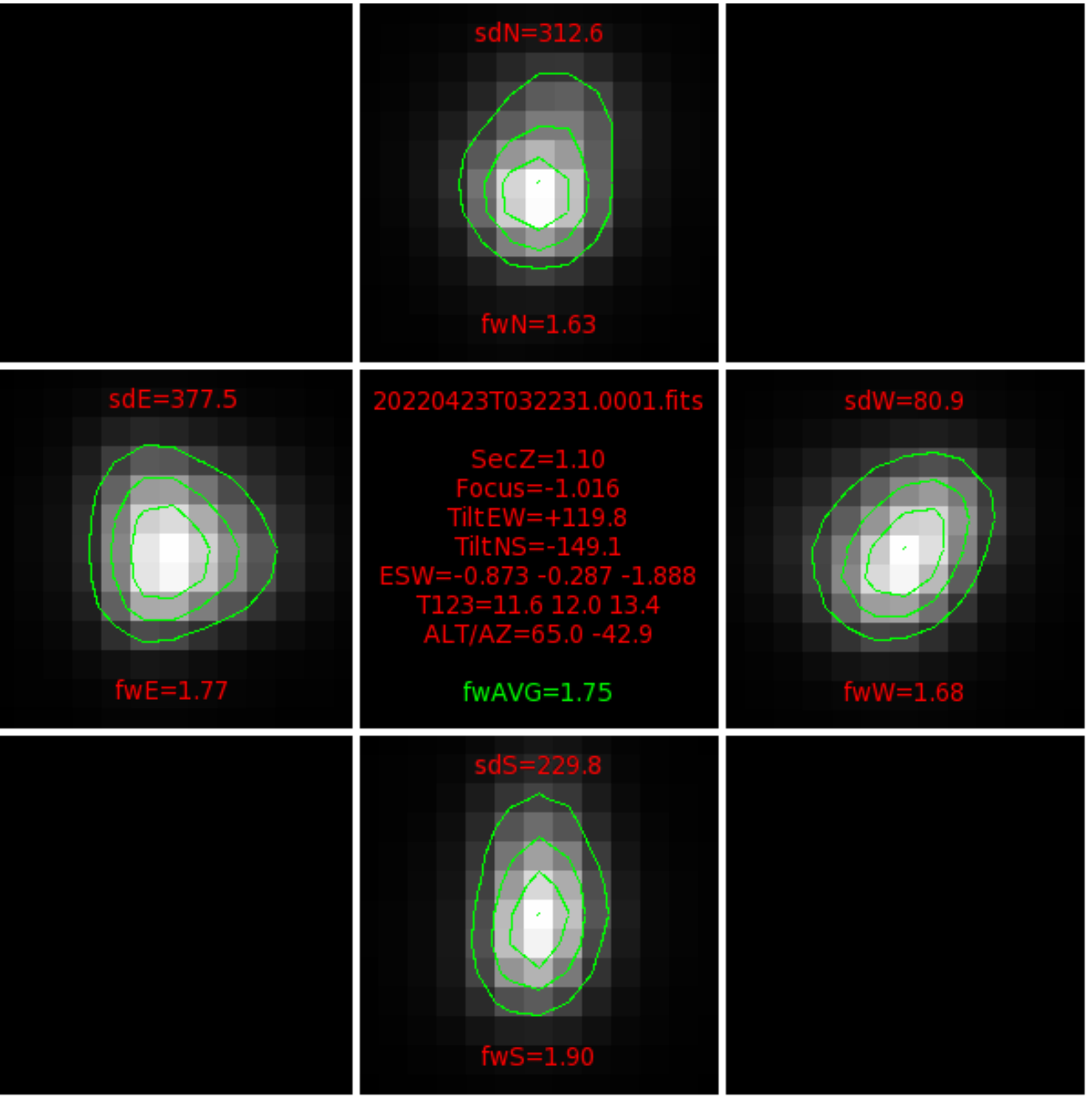
sdN=312.6
fwN=1.63
sdE=377.5
fwE=1.77
20220423T032231.0001.fits
SecZ=1.10
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.6 12.0 13.4
ALT/AZ=65.0 -42.9
fwAVG=1.75
sdW=80.9
fwW=1.68
sdS=229.8
fwS=1.90
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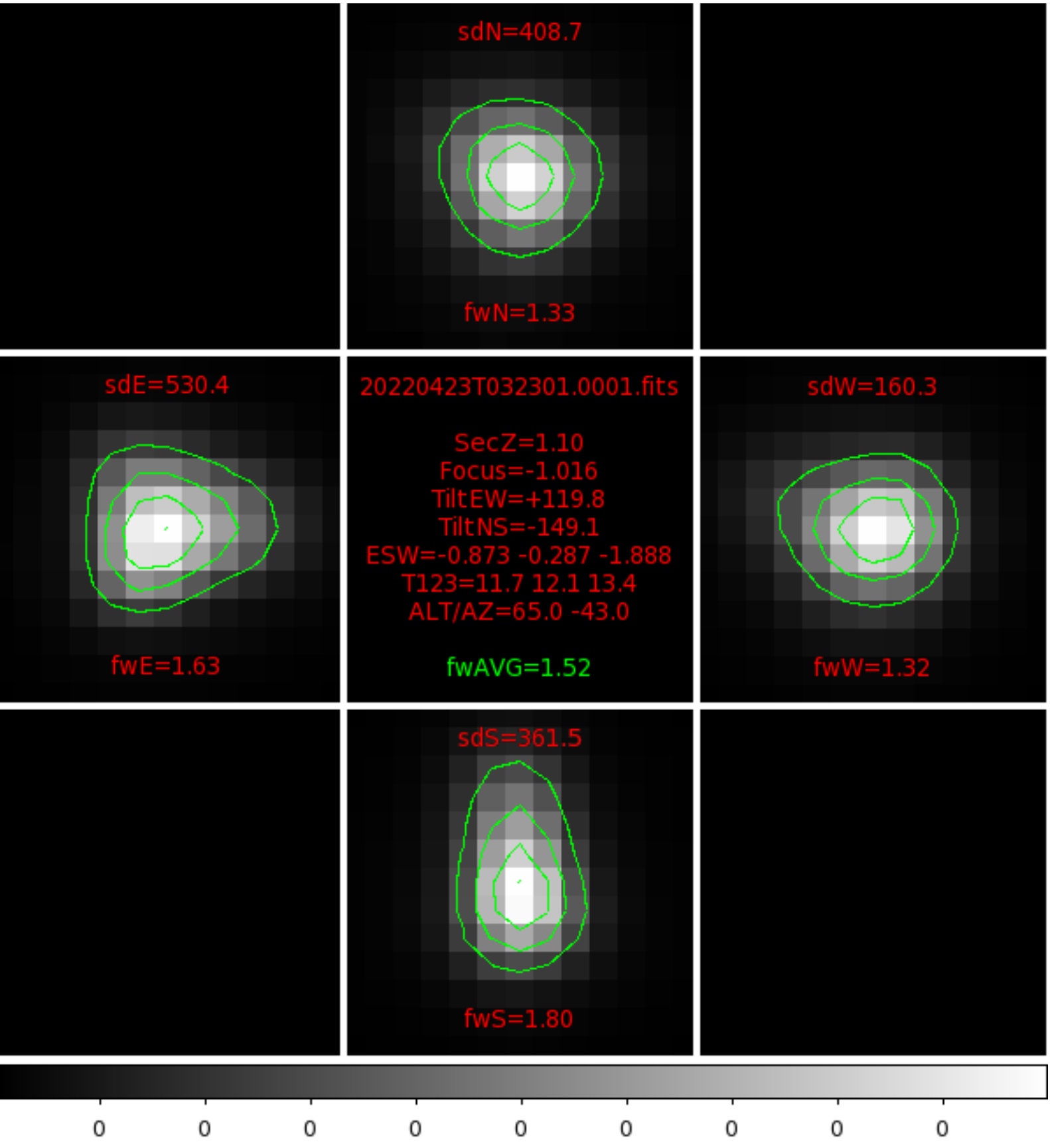
sdN=408.7
fwN=1.33
sdE=530.4
fwE=1.63
20220423T032301.0001.fits
SecZ=1.10
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.1 13.4
ALT/AZ=65.0 -43.0
fwAVG=1.52
sdW=160.3
fwW=1.32
sdS=361.5
fwS=1.80
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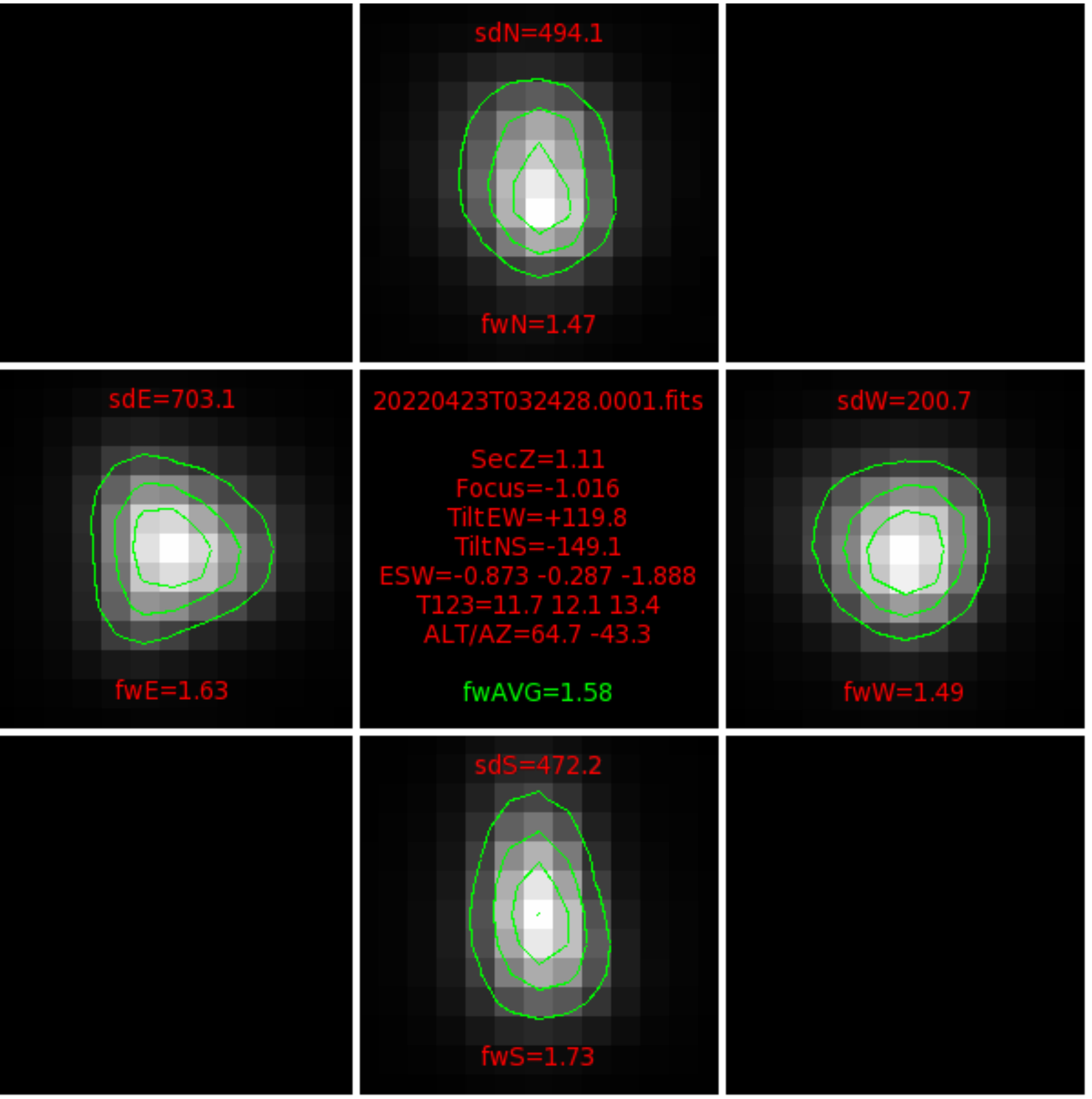
sdN=494.1
fwN=1.47
sdE=703.1
fwE=1.63
20220423T032428.0001.fits
SecZ=1.11
Focus=-1.016
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.873 -0.287 -1.888
T123=11.7 12.1 13.4
ALT/AZ=64.7 -43.3
fwAVG=1.58
sdW=200.7
fwW=1.49
sdS=472.2
fwS=1.73
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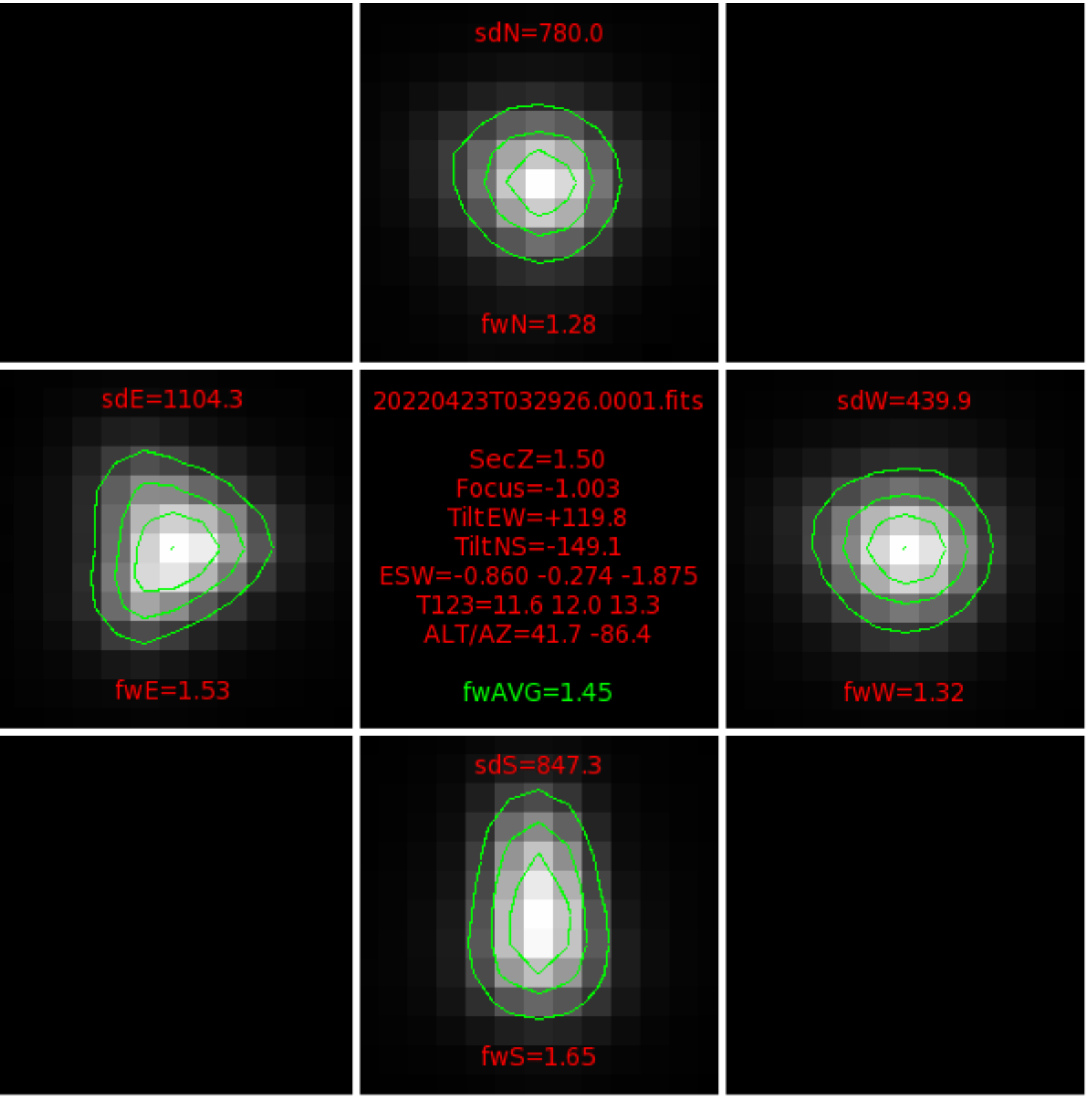
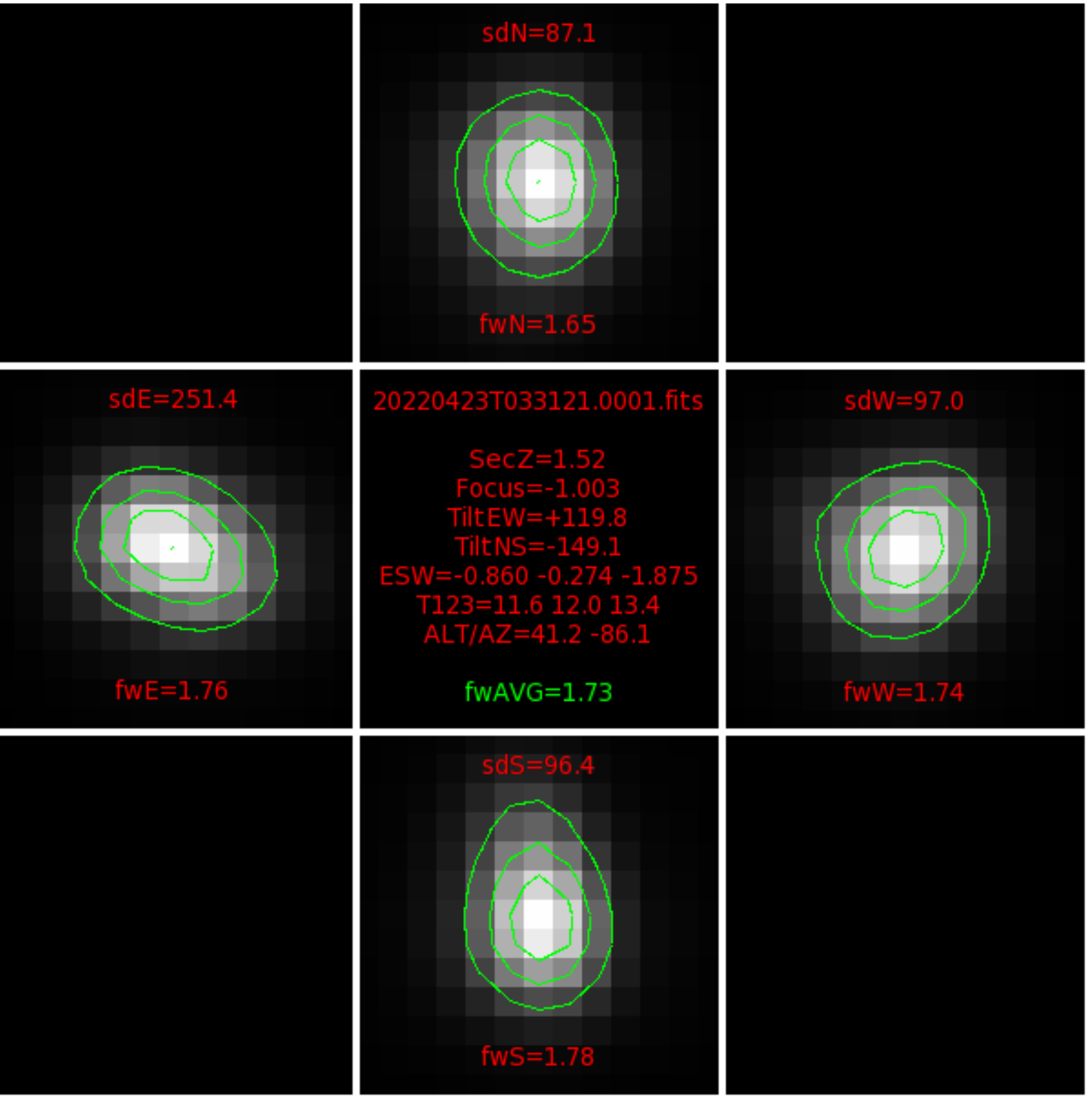

sdN=780.0
fwN=1.28
sdE=1104.3
fwE=1.53
20220423T032926.0001.fits
SecZ=1.50
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.6 12.0 13.3
ALT/AZ=41.7 -86.4
fwAVG=1.45
sdW=439.9
fwW=1.32
sdS=847.3
fwS=1.65
0 0 0 0 0 0 0 0 0


sdN=87.1
fwN=1.65
sdE=251.4
fwE=1.76
20220423T033121.0001.fits
SecZ=1.52
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.6 12.0 13.4
ALT/AZ=41.2 -86.1
fwAVG=1.73
sdW=97.0
fwW=1.74
sdS=96.4
fwS=1.78
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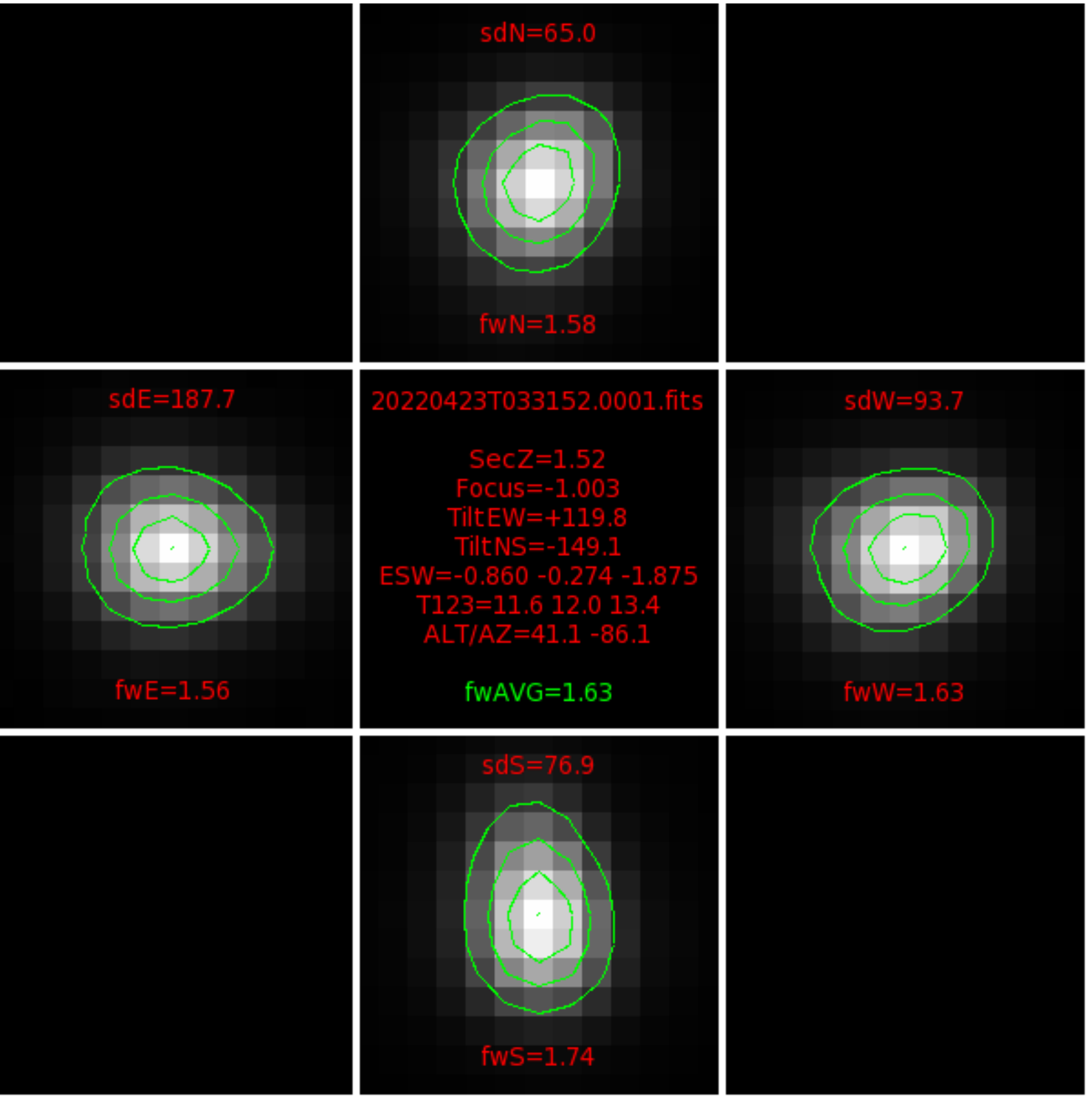
sdN=65.0
fwN=1.58
sdE=187.7
fwE=1.56
20220423T033152.0001.fits
SecZ=1.52
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.6 12.0 13.4
ALT/AZ=41.1 -86.1
fwAVG=1.63
sdW=93.7
fwW=1.63
sdS=76.9
fwS=1.74
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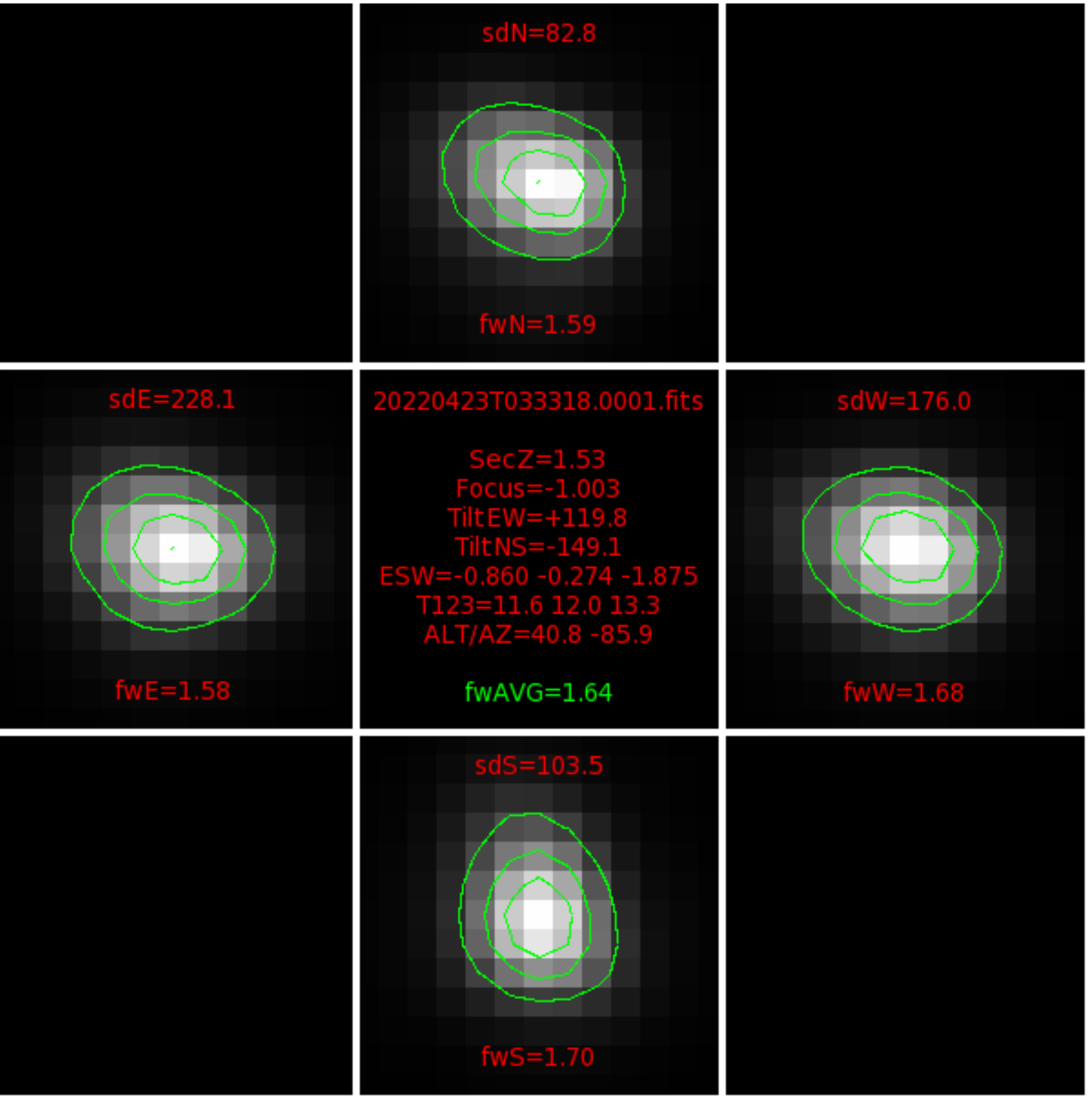
sdN=82.8
fwN=1.59
sdE=228.1
fwE=1.58
20220423T033318.0001.fits
SecZ=1.53
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.6 12.0 13.3
ALT/AZ=40.8 -85.9
fwAVG=1.64
sdW=176.0
fwW=1.68
sdS=103.5
fwS=1.70
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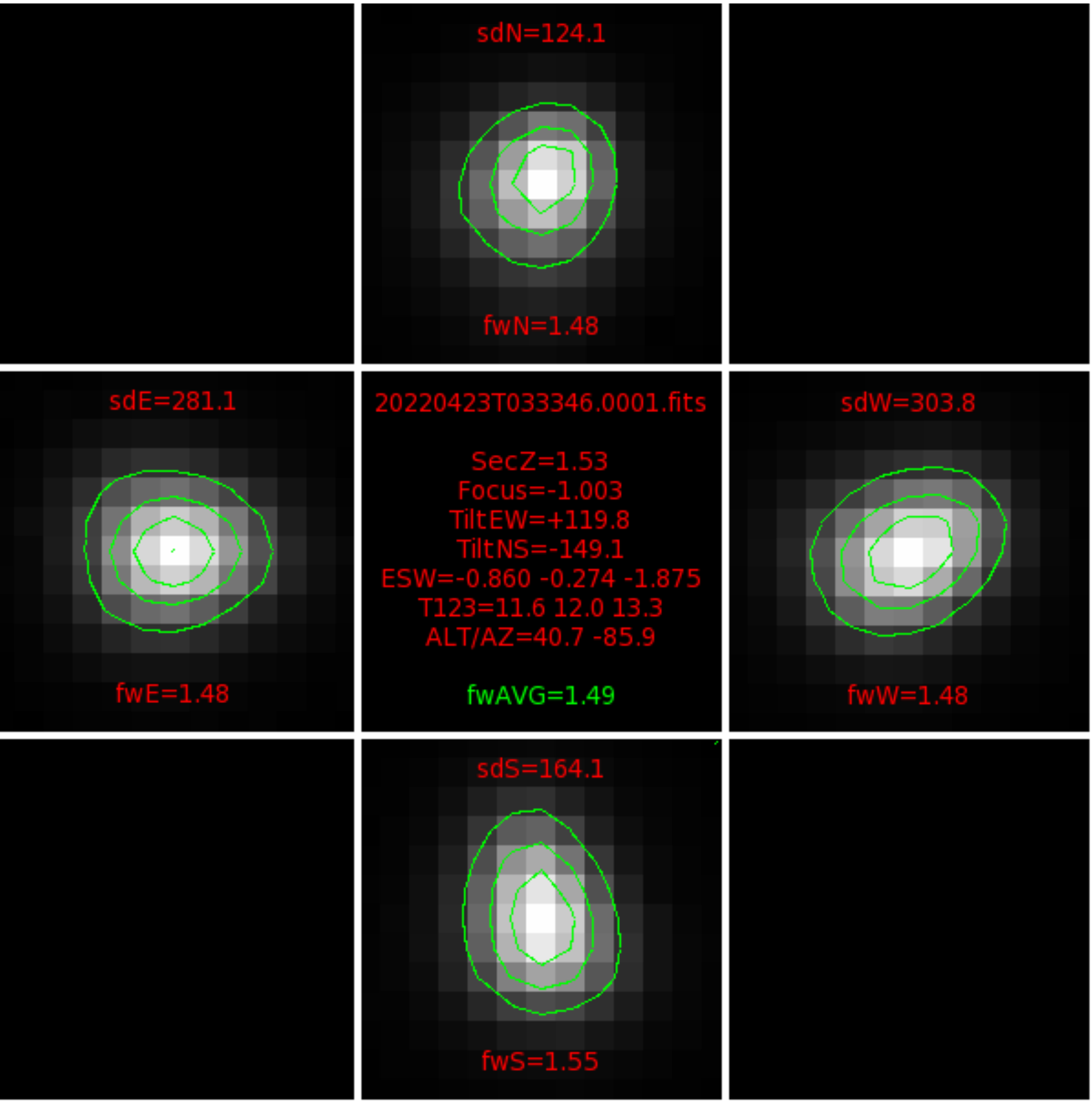
sdN=124.1
fwN=1.48
sdE=281.1
fwE=1.48
20220423T033346.0001.fits
SecZ=1.53
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.6 12.0 13.3
ALT/AZ=40.7 -85.9
fwAVG=1.49
sdW=303.8
fwW=1.48
sdS=164.1
fwS=1.55
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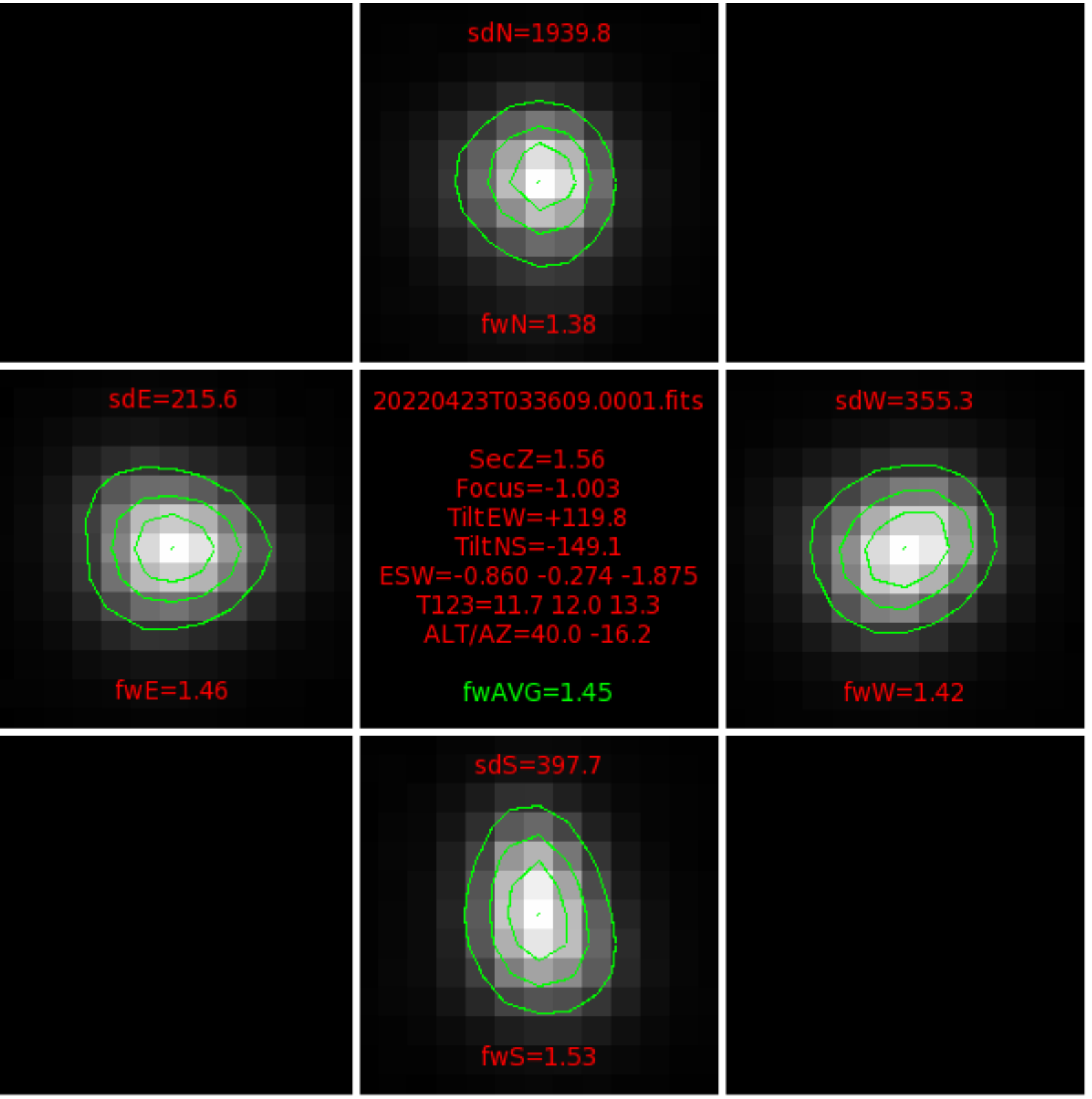
sdN=1939.8
fwN=1.38
sdE=215.6
fwE=1.46
20220423T033609.0001.fits
SecZ=1.56
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.7 12.0 13.3
ALT/AZ=40.0 -16.2
fwAVG=1.45
sdW=355.3
fwW=1.42
sdS=397.7
fwS=1.53
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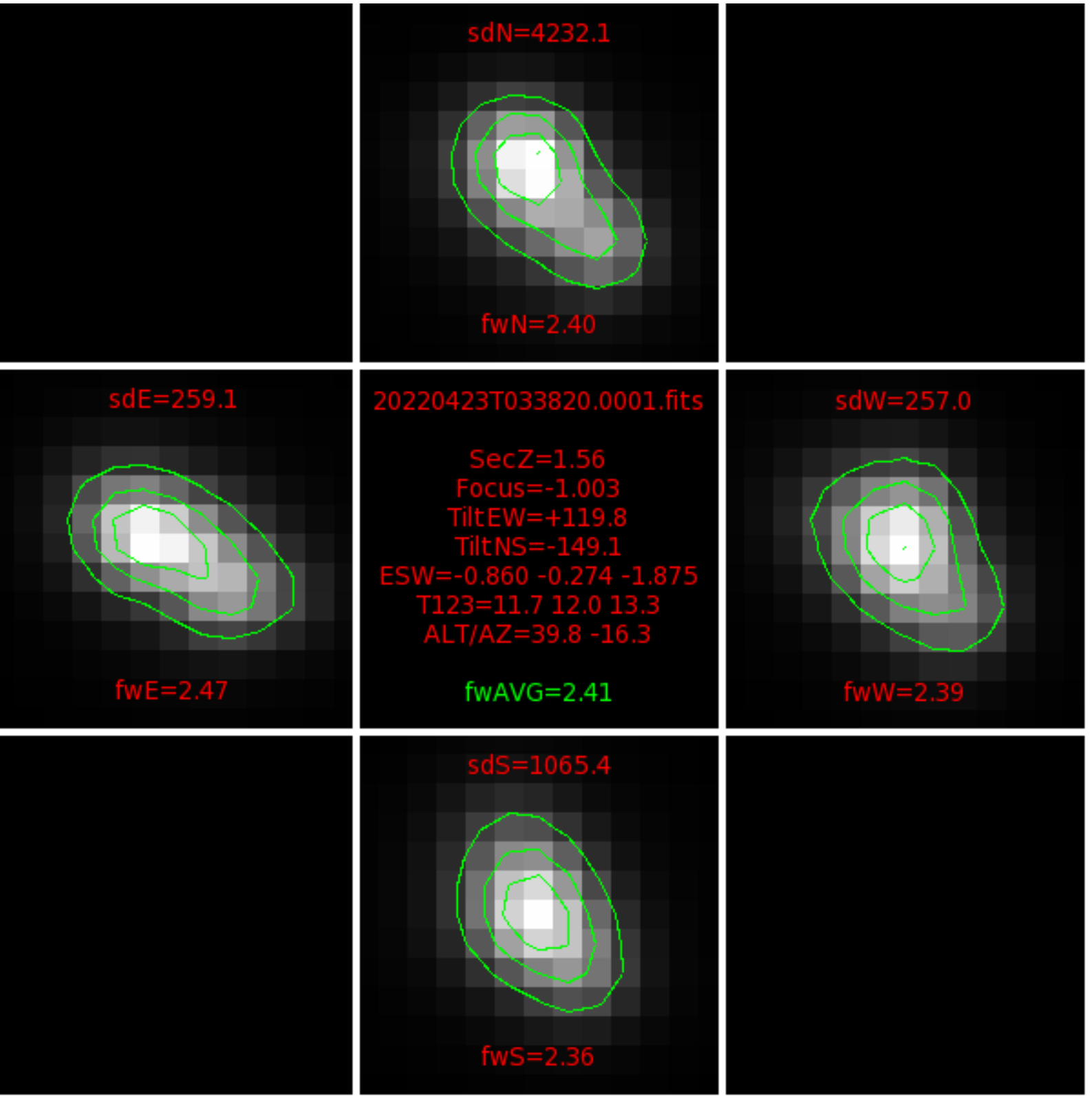
sdN=4232.1
fwN=2.40
sdE=259.1
fwE=2.47
20220423T033820.0001.fits
SecZ=1.56
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.7 12.0 13.3
ALT/AZ=39.8 -16.3
fwAVG=2.41
sdW=257.0
fwW=2.39
sdS=1065.4
fwS=2.36
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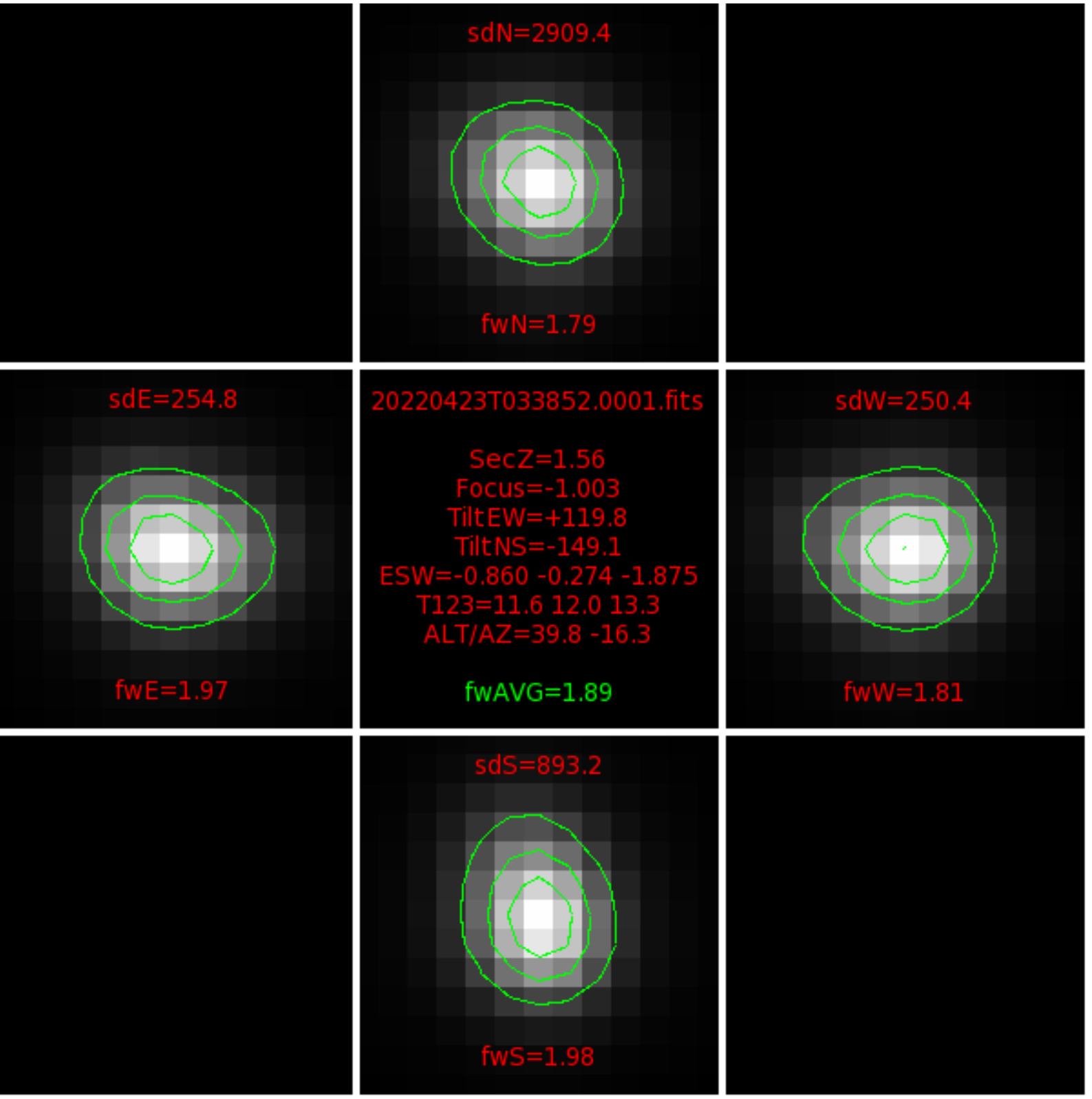
sdN=2909.4
fwN=1.79
sdE=254.8
fwE=1.97
20220423T033852.0001.fits
SecZ=1.56
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.6 12.0 13.3
ALT/AZ=39.8 -16.3
fwAVG=1.89
sdW=250.4
fwW=1.81
sdS=893.2
fwS=1.98
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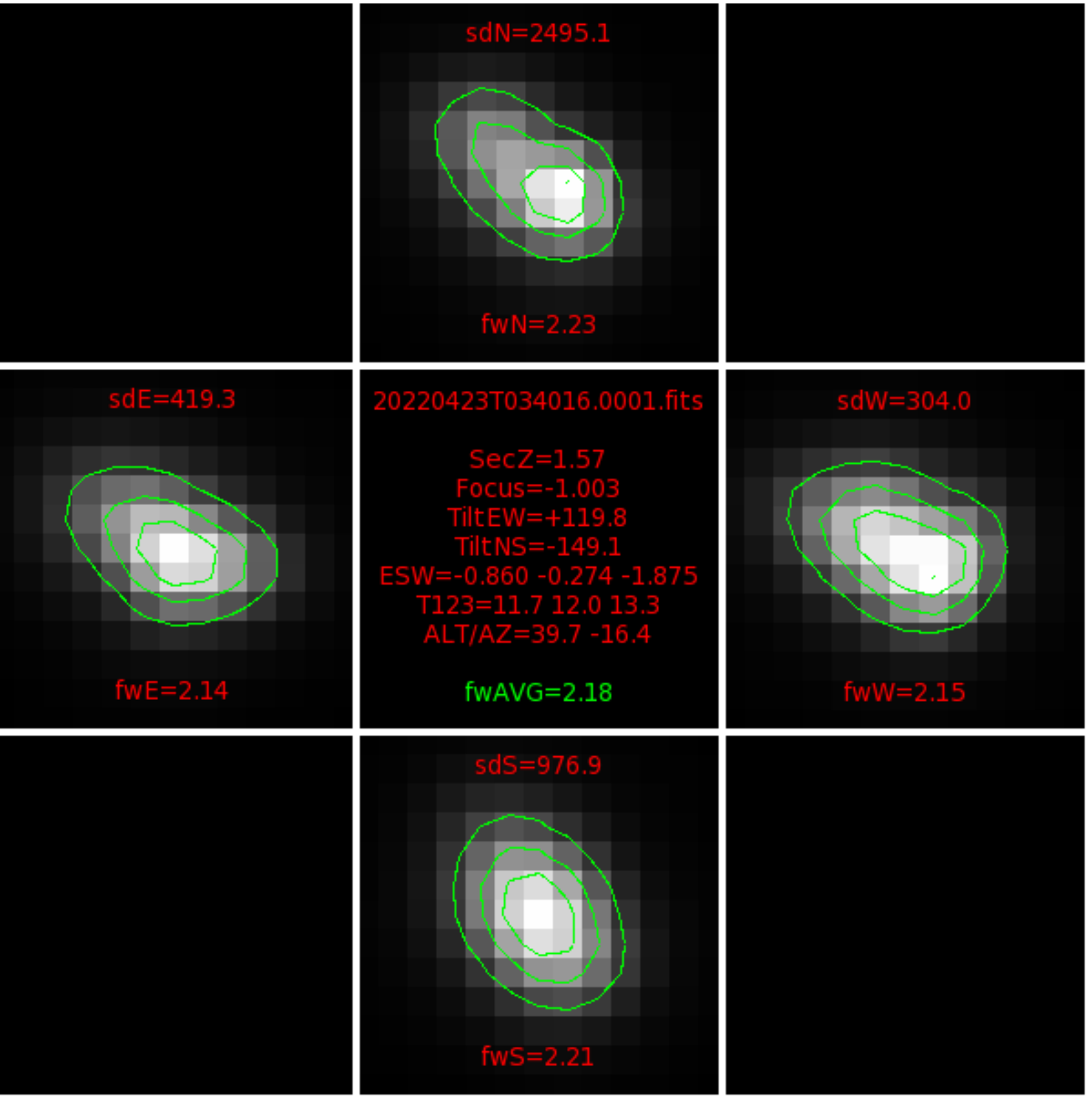
sdN=2495.1
fwN=2.23
sdE=419.3
fwE=2.14
20220423T034016.0001.fits
SecZ=1.57
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.7 12.0 13.3
ALT/AZ=39.7 -16.4
fwAVG=2.18
sdW=304.0
fwW=2.15
sdS=976.9
fwS=2.21
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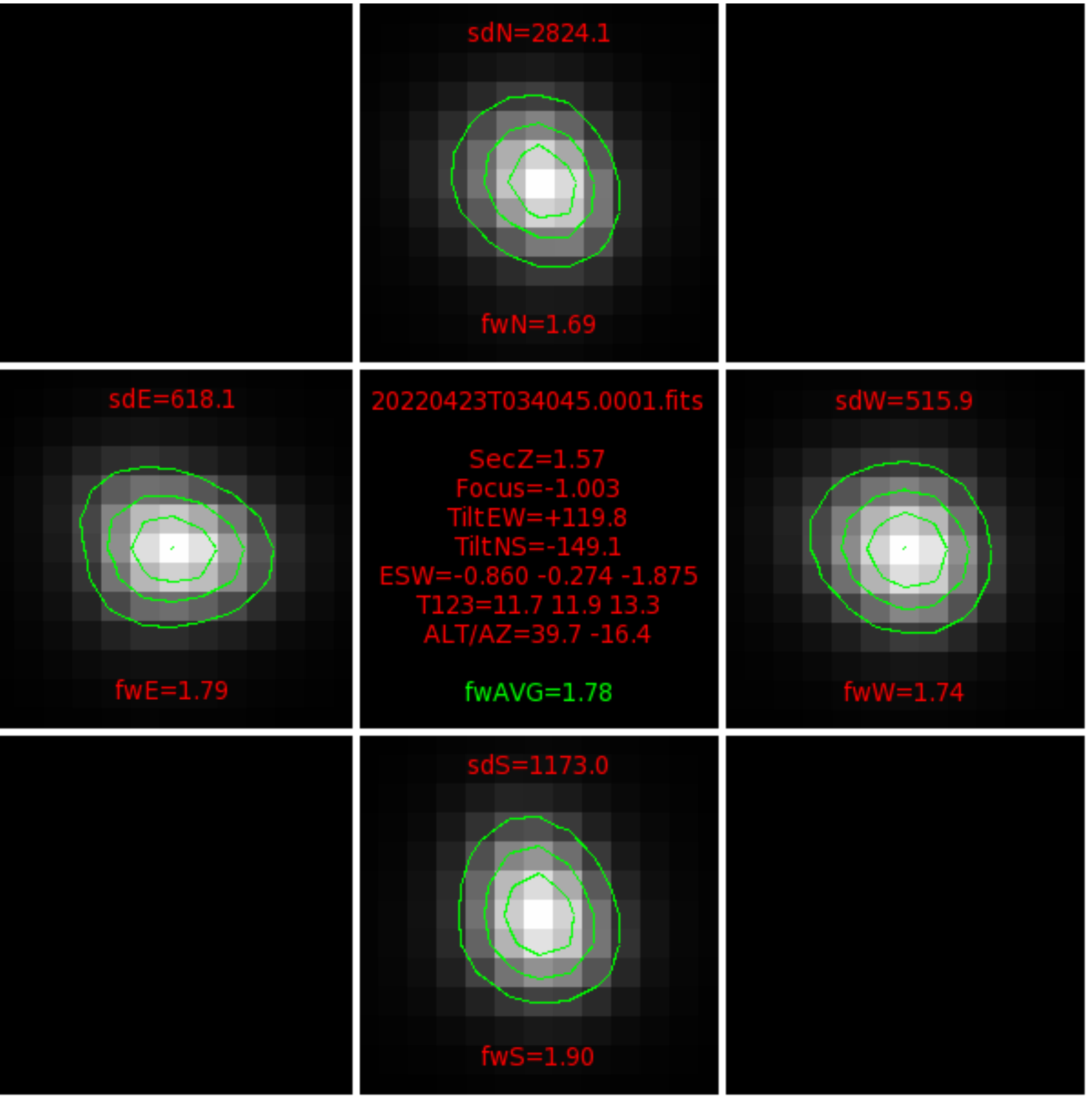
sdN=2824.1
fwN=1.69
sdE=618.1
fwE=1.79
20220423T034045.0001.fits
SecZ=1.57
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.7 11.9 13.3
ALT/AZ=39.7 -16.4
fwAVG=1.78
sdW=515.9
fwW=1.74
sdS=1173.0
fwS=1.90
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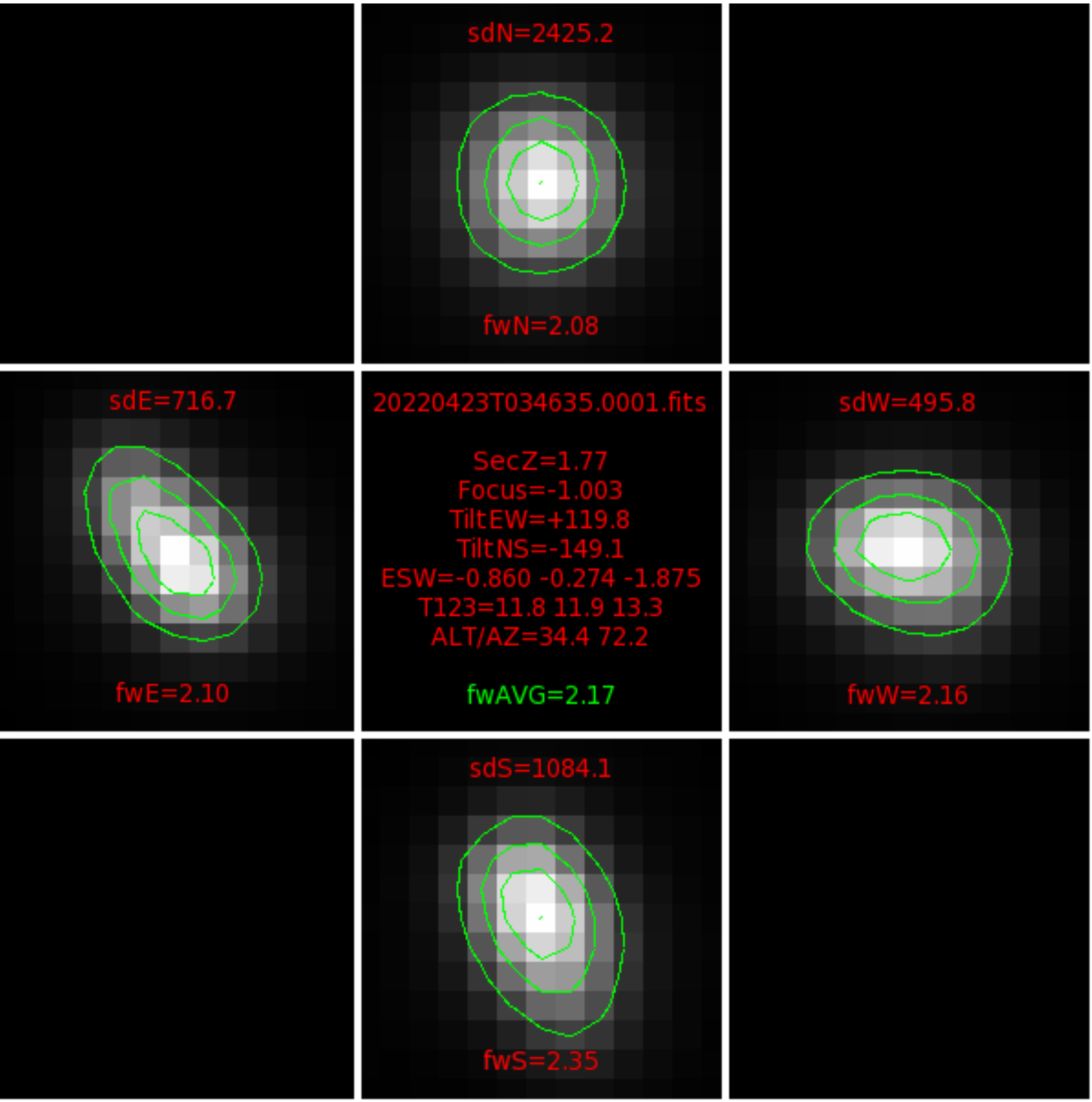
sdN=2425.2
fwN=2.08
sdE=716.7
fwE=2.10
20220423T034635.0001.fits
SecZ=1.77
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.8 11.9 13.3
ALT/AZ=34.4 72.2
fwAVG=2.17
sdW=495.8
fwW=2.16
sdS=1084.1
fwS=2.35
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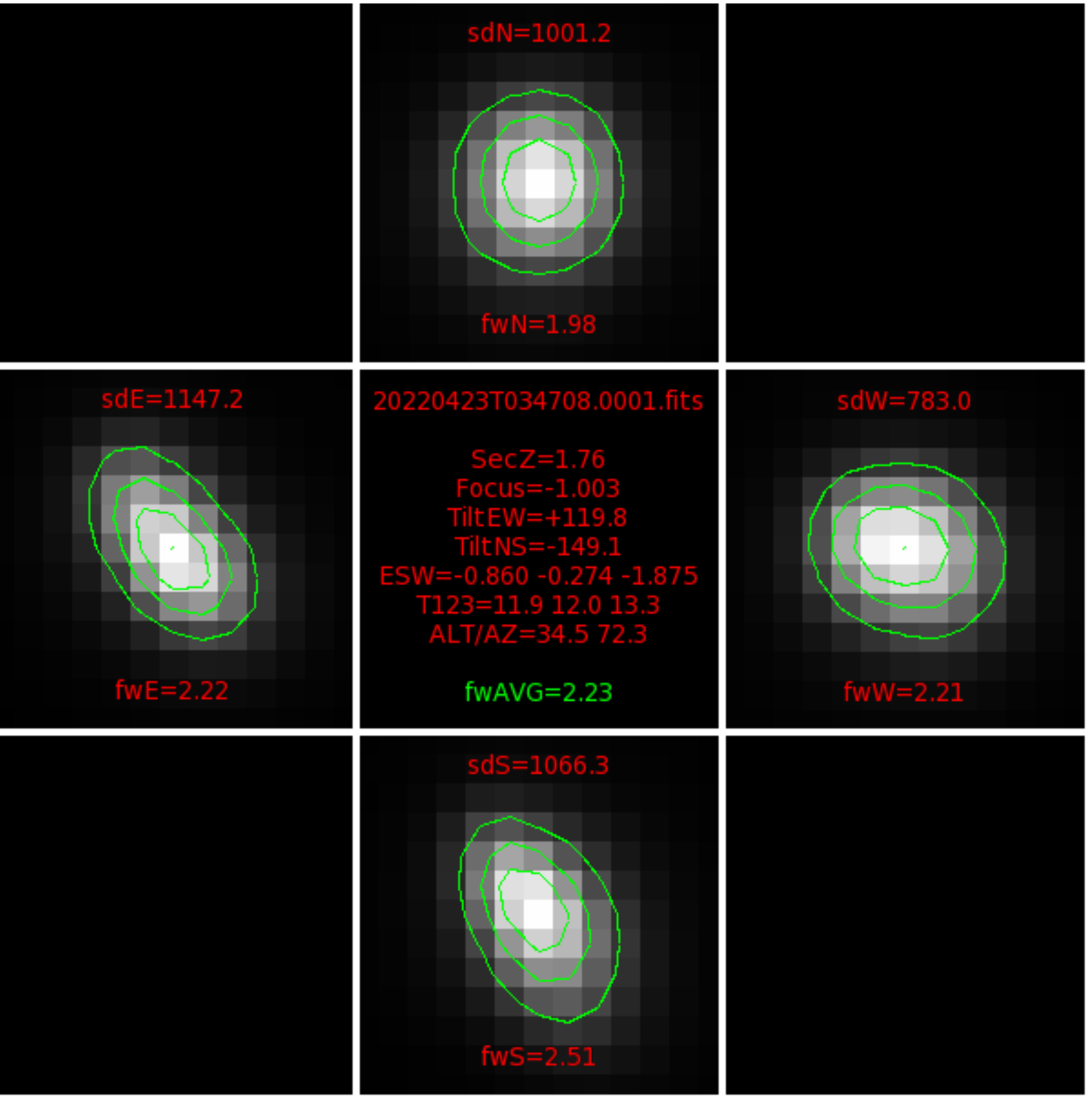
sdN=1001.2
fwN=1.98
sdE=1147.2
fwE=2.22
20220423T034708.0001.fits
SecZ=1.76
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.9 12.0 13.3
ALT/AZ=34.5 72.3
fwAVG=2.23
sdW=783.0
fwW=2.21
sdS=1066.3
fwS=2.51
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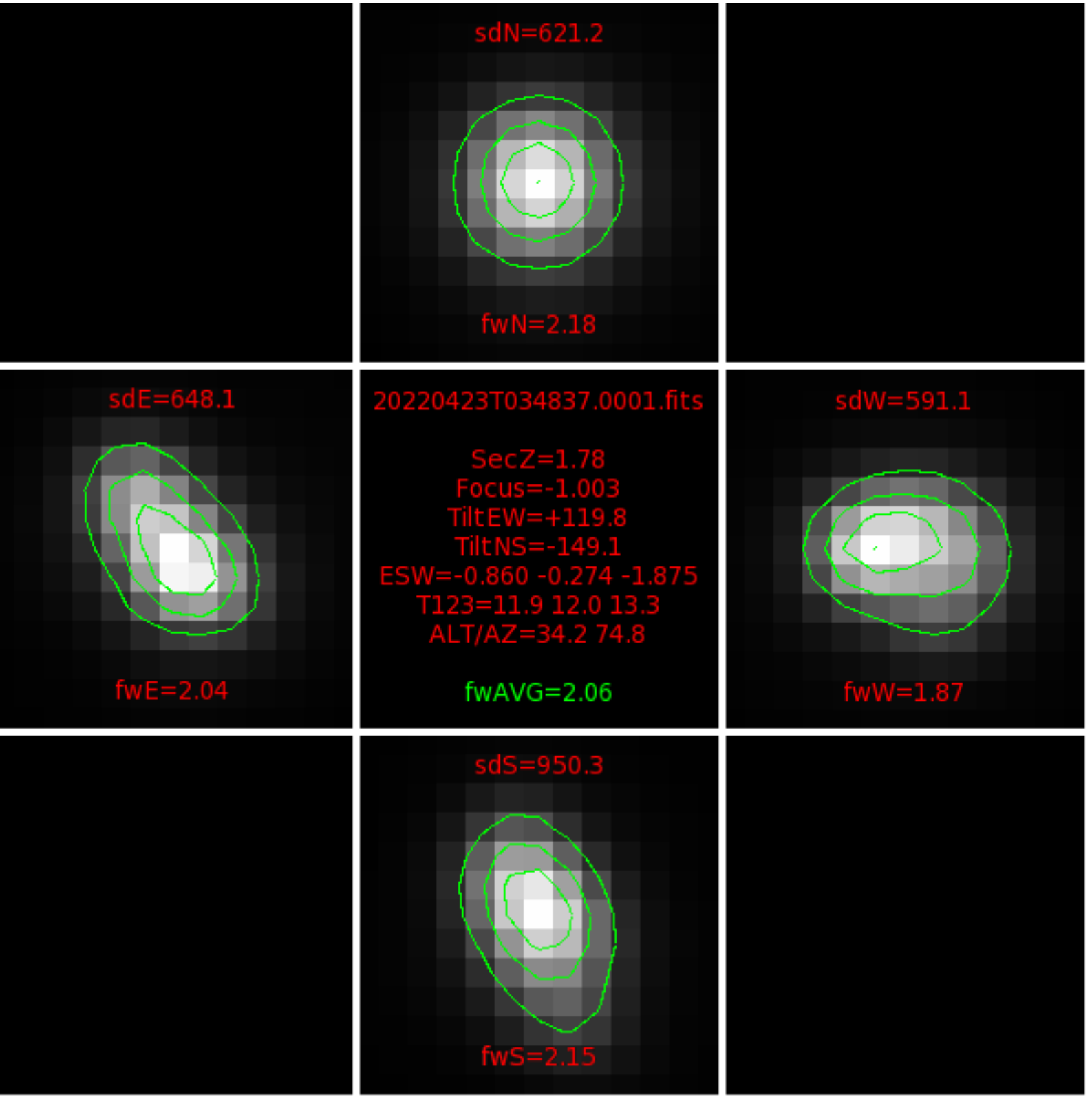
sdN=621.2
fwN=2.18
sdE=648.1
fwE=2.04
20220423T034837.0001.fits
SecZ=1.78
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.9 12.0 13.3
ALT/AZ=34.2 74.8
fwAVG=2.06
sdW=591.1
fwW=1.87
sdS=950.3
fwS=2.15
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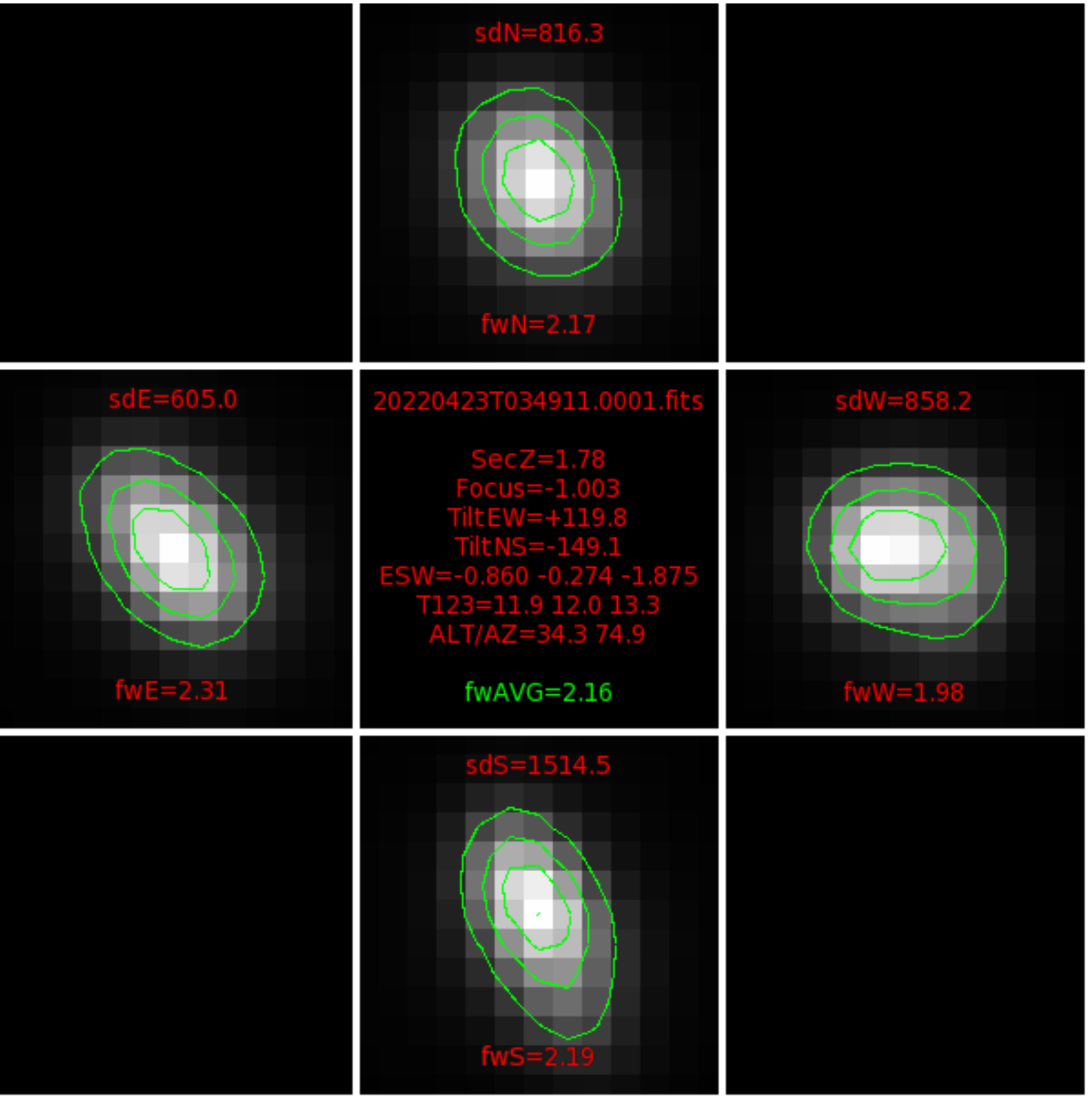
sdN=816.3
fwN=2.17
sdE=605.0
fwE=2.31
20220423T034911.0001.fits
SecZ=1.78
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.9 12.0 13.3
ALT/AZ=34.3 74.9
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sdW=858.2
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sdS=1514.5
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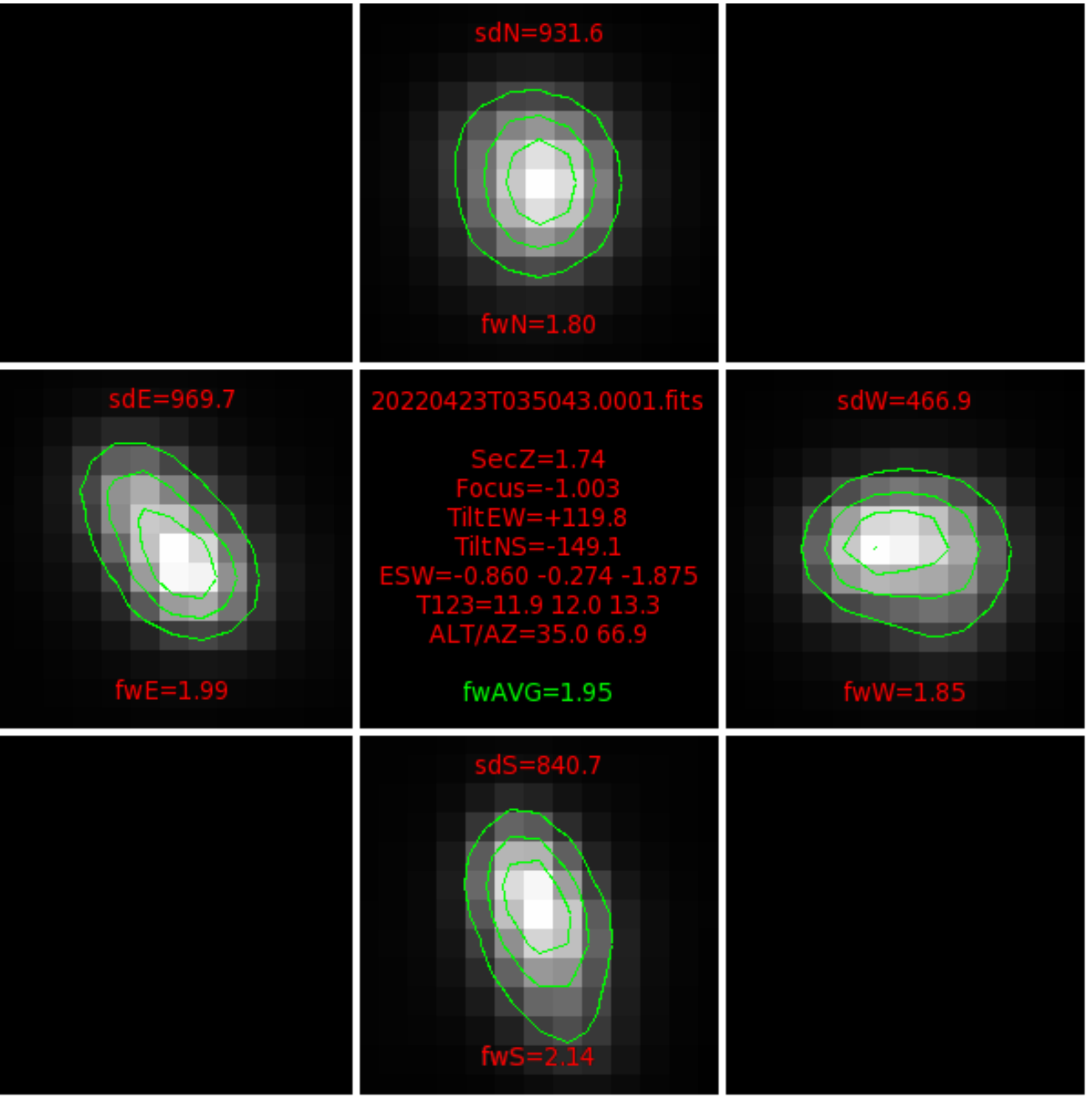
sdN=931.6
fwN=1.80
sdE=969.7
fwE=1.99
20220423T035043.0001.fits
SecZ=1.74
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.9 12.0 13.3
ALT/AZ=35.0 66.9
fwAVG=1.95
sdW=466.9
fwW=1.85
sdS=840.7
fwS=2.14
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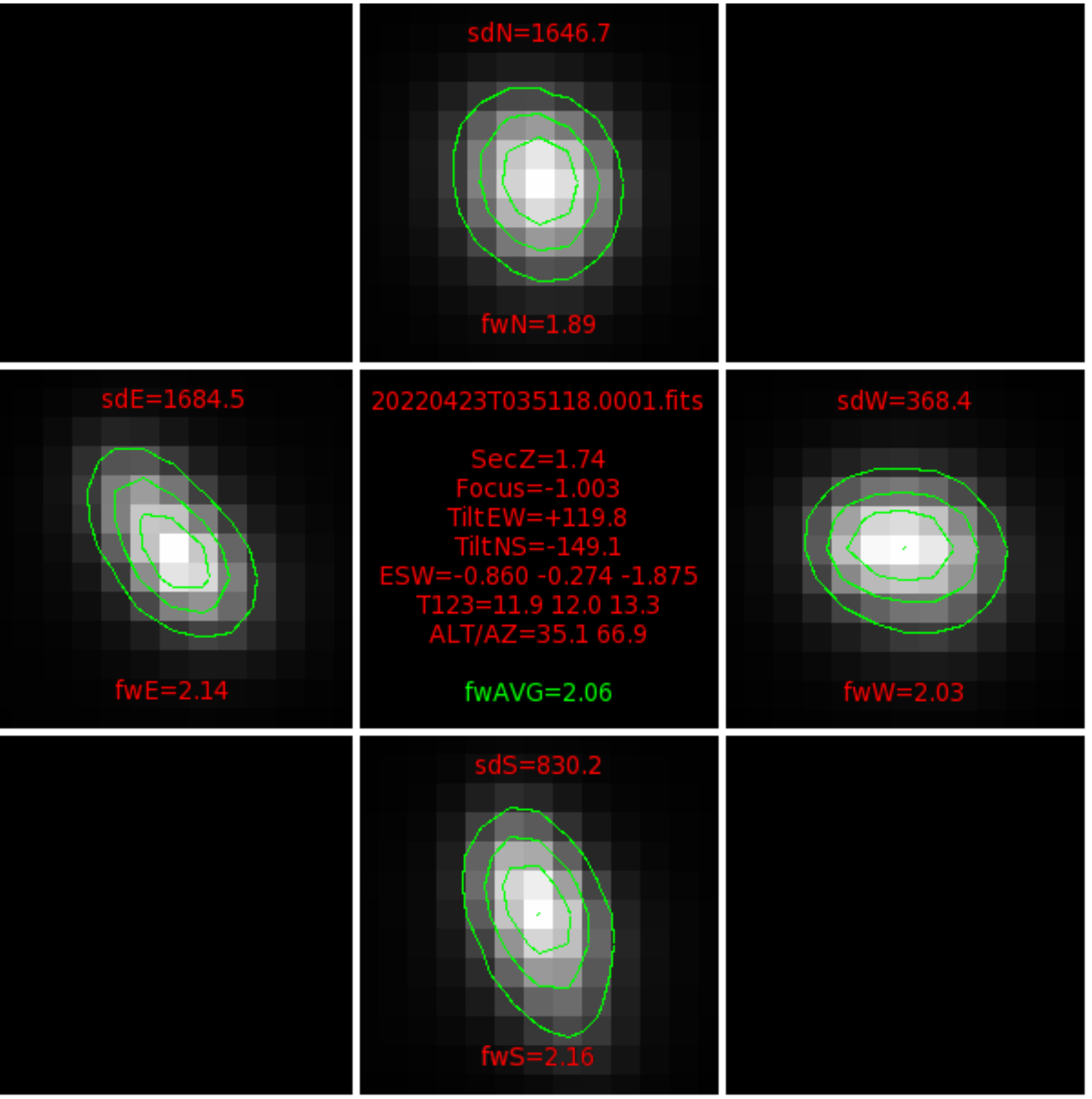
sdN=1646.7
fwN=1.89
sdE=1684.5
fwE=2.14
20220423T035118.0001.fits
SecZ=1.74
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.9 12.0 13.3
ALT/AZ=35.1 66.9
fwAVG=2.06
sdW=368.4
fwW=2.03
sdS=830.2
fwS=2.16
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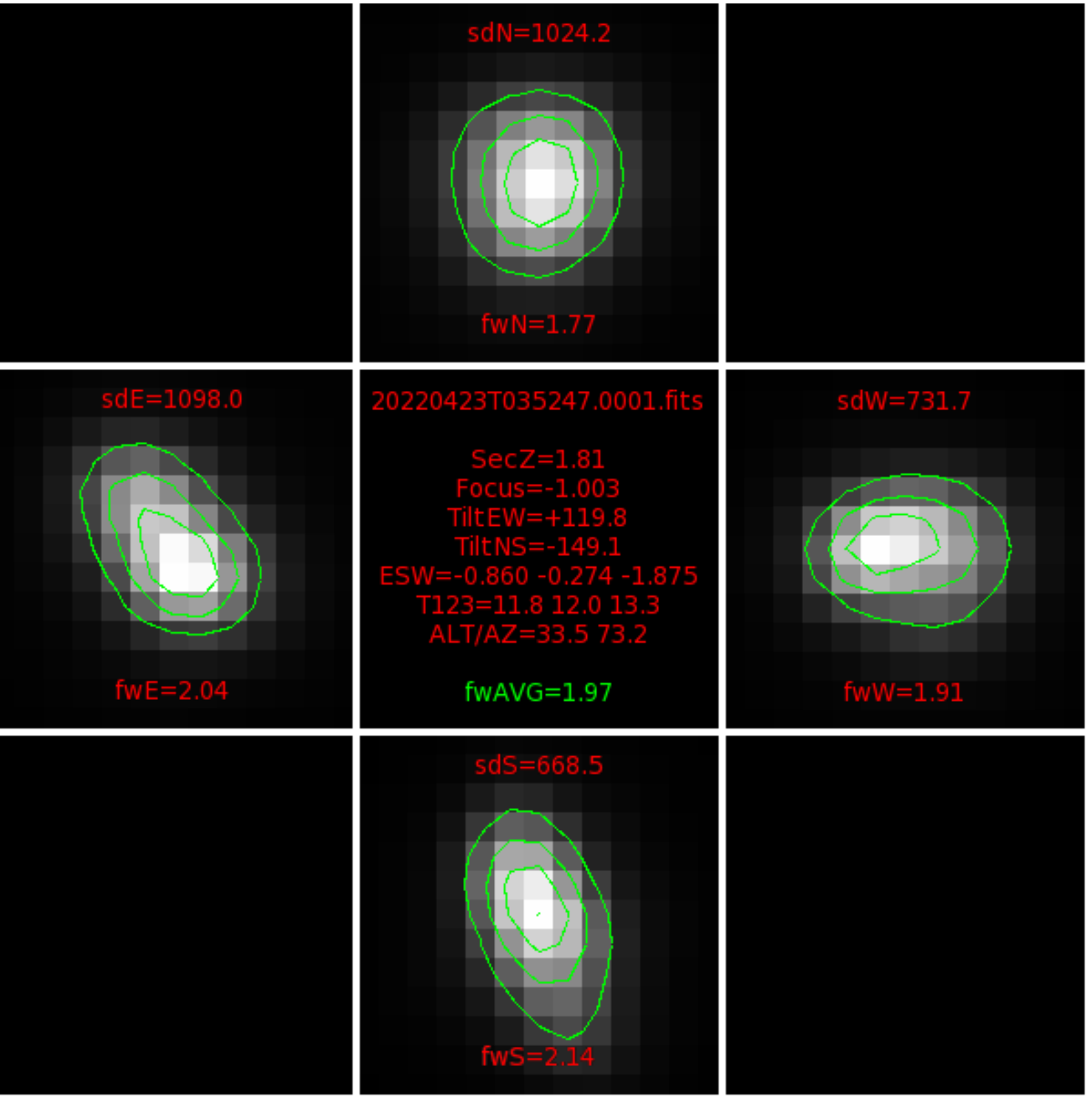
sdN=1024.2
fwN=1.77
sdE=1098.0
fwE=2.04
20220423T035247.0001.fits
SecZ=1.81
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.8 12.0 13.3
ALT/AZ=33.5 73.2
fwAVG=1.97
sdW=731.7
fwW=1.91
sdS=668.5
fwS=2.14
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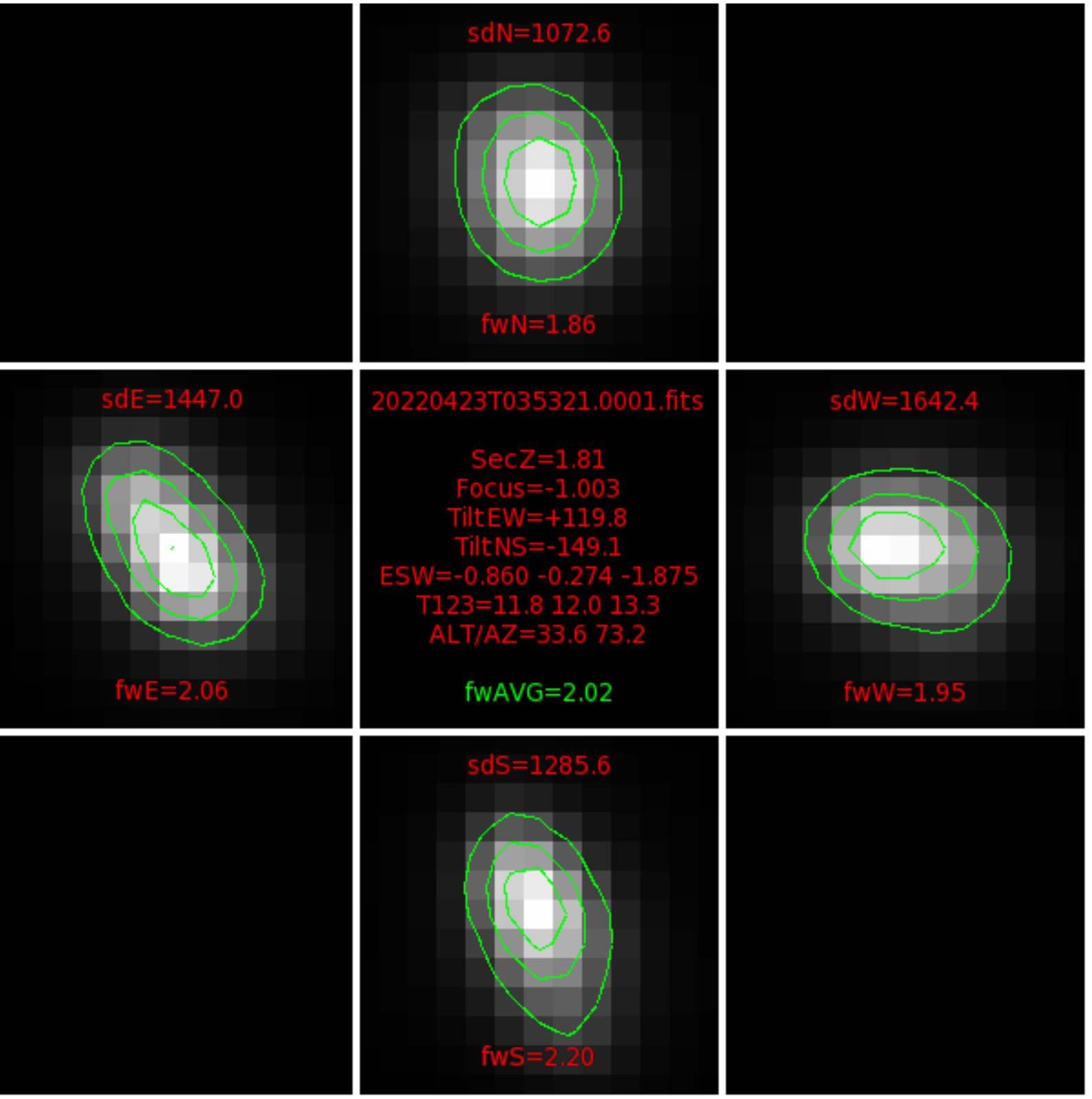
sdN=1072.6
fwN=1.86
sdE=1447.0
fwE=2.06
20220423T035321.0001.fits
SecZ=1.81
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.8 12.0 13.3
ALT/AZ=33.6 73.2
fwAVG=2.02
sdW=1642.4
fwW=1.95
sdS=1285.6
fwS=2.20
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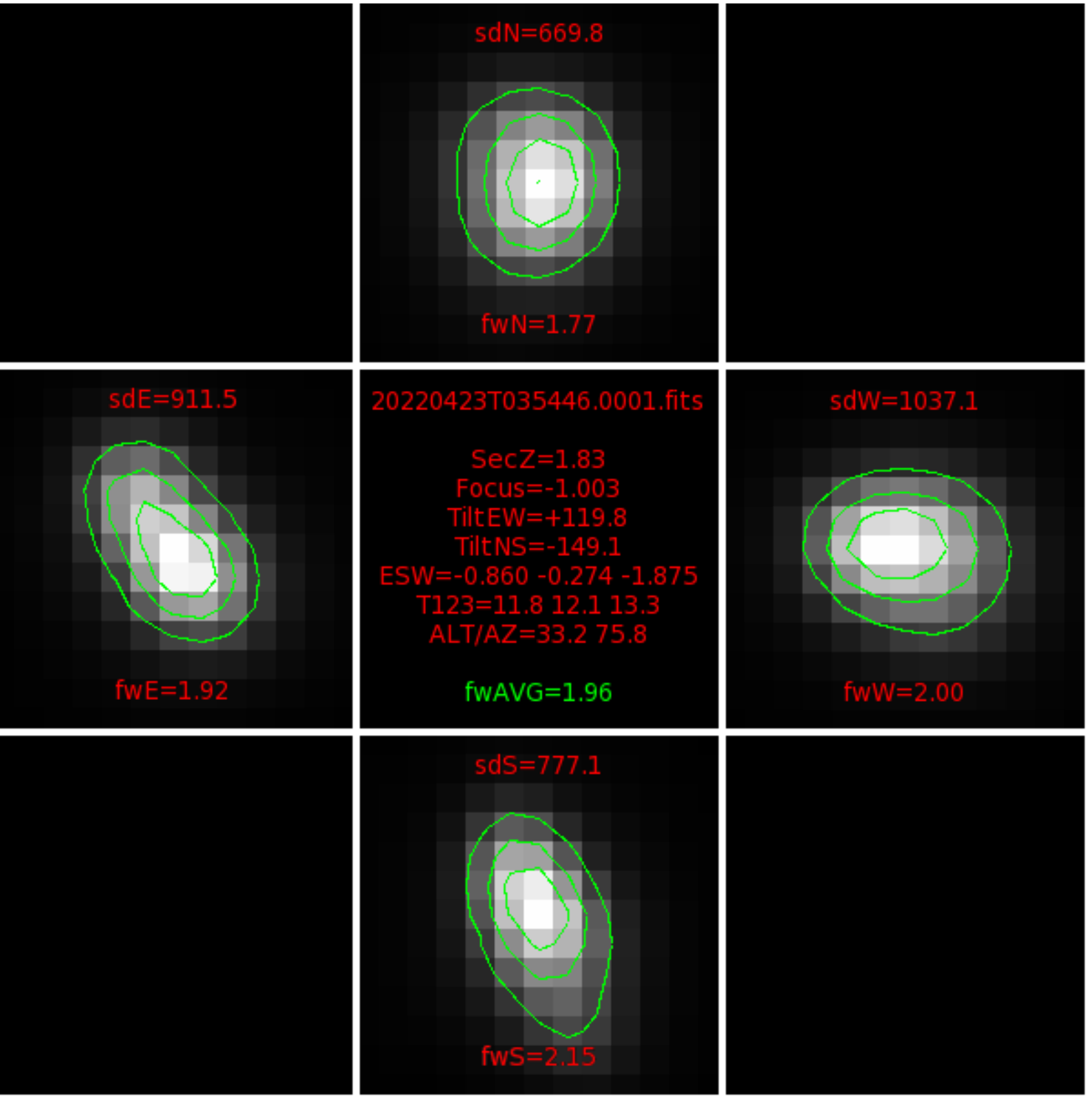
sdN=669.8
fwN=1.77
sdE=911.5
fwE=1.92
20220423T035446.0001.fits
SecZ=1.83
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.8 12.1 13.3
ALT/AZ=33.2 75.8
fwAVG=1.96
sdW=1037.1
fwW=2.00
sdS=777.1
fwS=2.15
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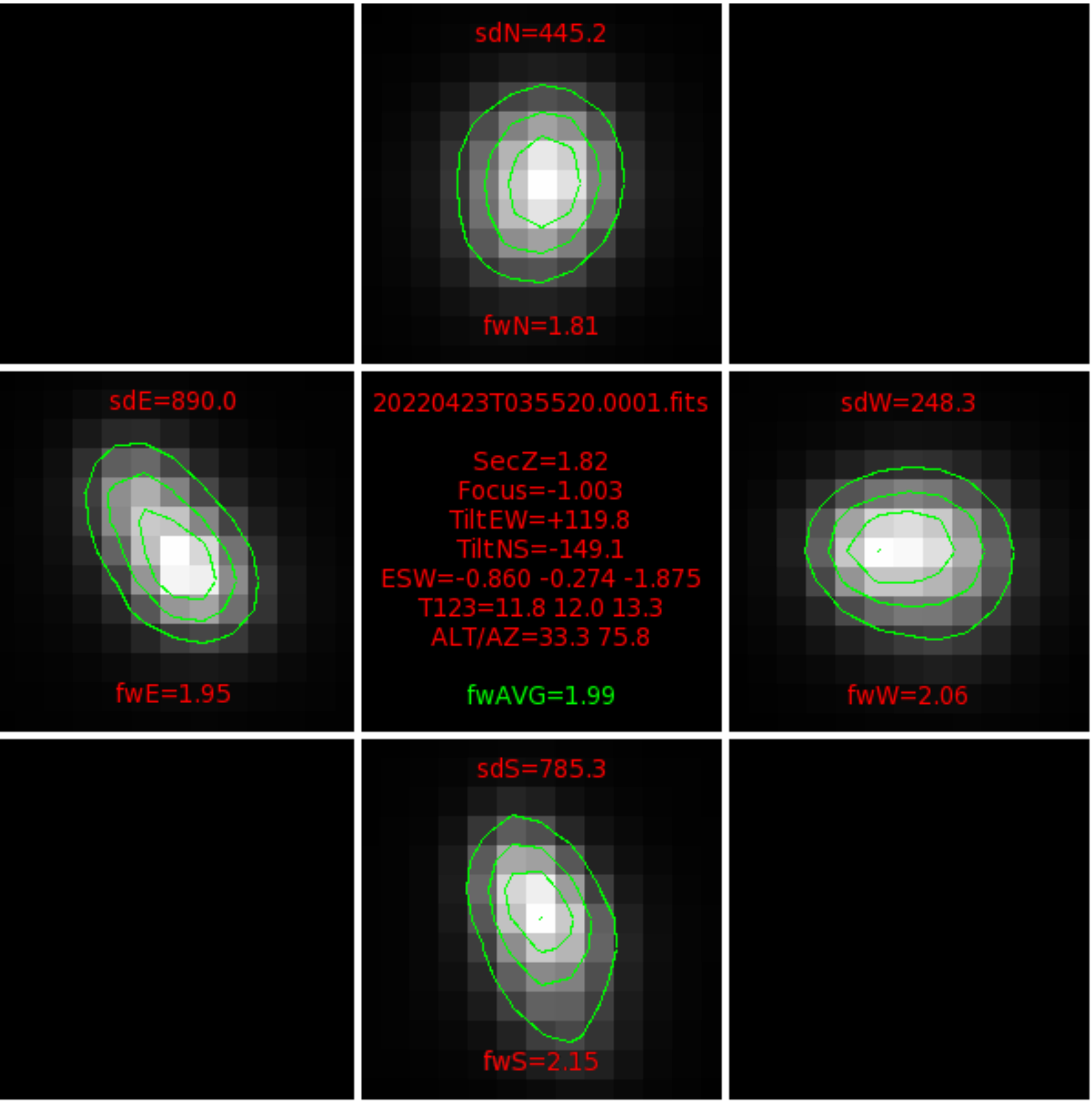
sdN=445.2
fwN=1.81
sdE=890.0
fwE=1.95
20220423T035520.0001.fits
SecZ=1.82
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.8 12.0 13.3
ALT/AZ=33.3 75.8
fwAVG=1.99
sdW=248.3
fwW=2.06
sdS=785.3
fwS=2.15
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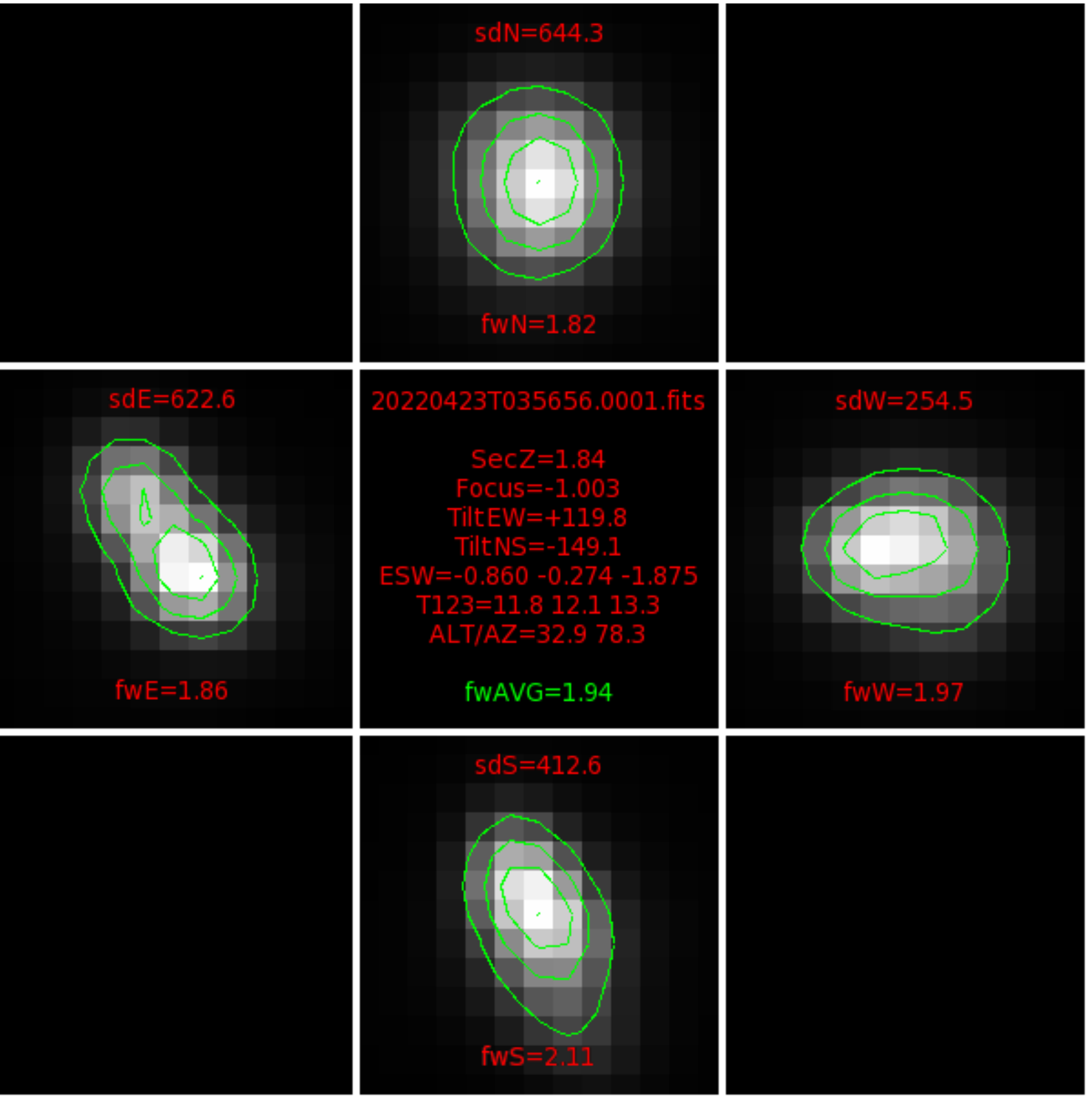
sdN=644.3
fwN=1.82
sdE=622.6
fwE=1.86
20220423T035656.0001.fits
SecZ=1.84
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.8 12.1 13.3
ALT/AZ=32.9 78.3
fwAVG=1.94
sdW=254.5
fwW=1.97
sdS=412.6
fwS=2.11
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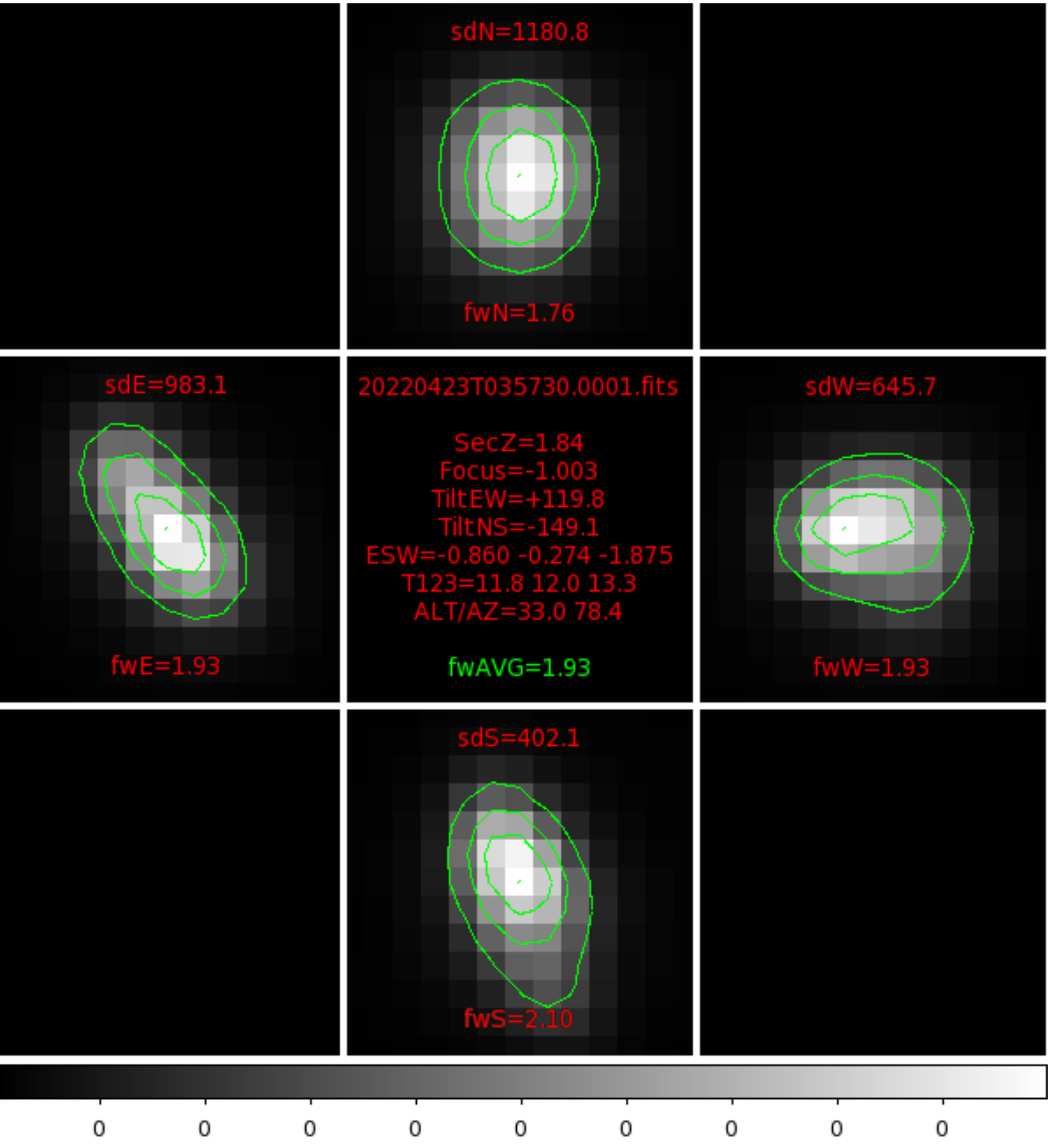
sdN=1180.8
fwN=1.76
sdE=983.1
fwE=1.93
20220423T035730.0001.fits
SecZ=1.84
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.8 12.0 13.3
ALT/AZ=33.0 78.4
fwAVG=1.93
sdW=645.7
fwW=1.93
sdS=402.1
fwS=2.10
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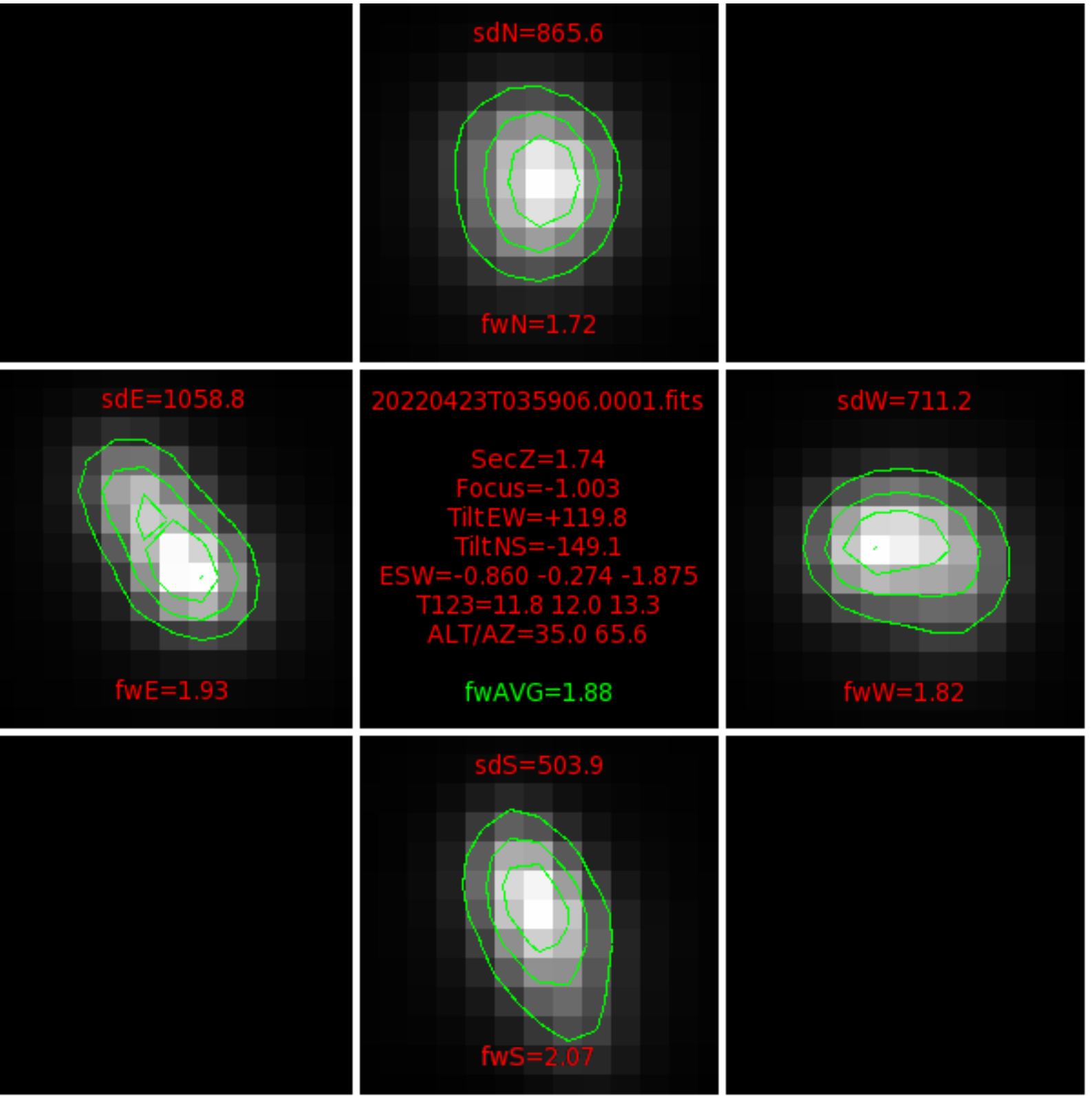
sdN=865.6
fwN=1.72
sdE=1058.8
fwE=1.93
20220423T035906.0001.fits
SecZ=1.74
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.8 12.0 13.3
ALT/AZ=35.0 65.6
fwAVG=1.88
sdW=711.2
fwW=1.82
sdS=503.9
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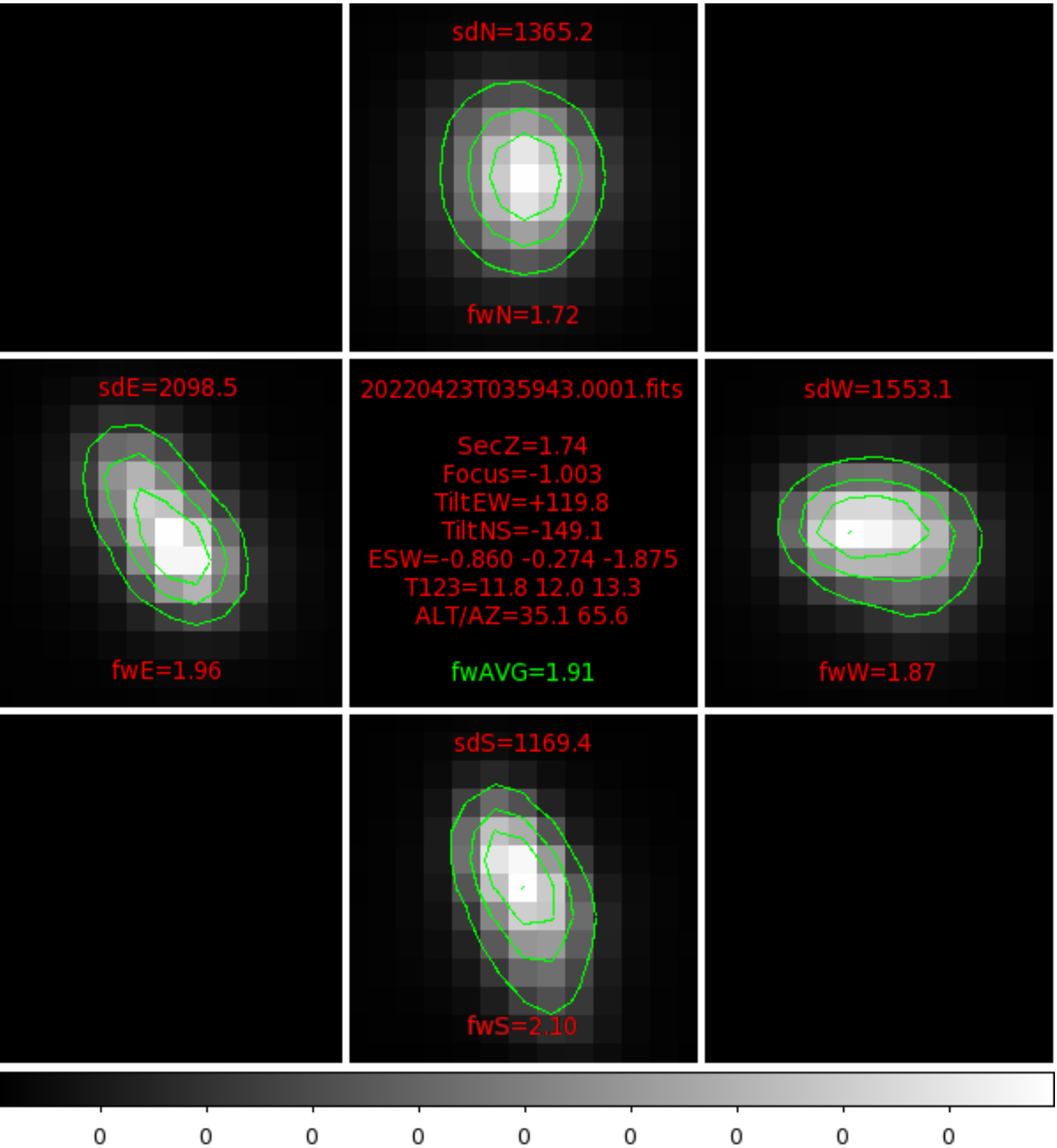
sdN=1365.2
fwN=1.72
sdE=2098.5
fwE=1.96
20220423T035943.0001.fits
SecZ=1.74
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.8 12.0 13.3
ALT/AZ=35.1 65.6
fwAVG=1.91
sdW=1553.1
fwW=1.87
sdS=1169.4
fwS=2.10
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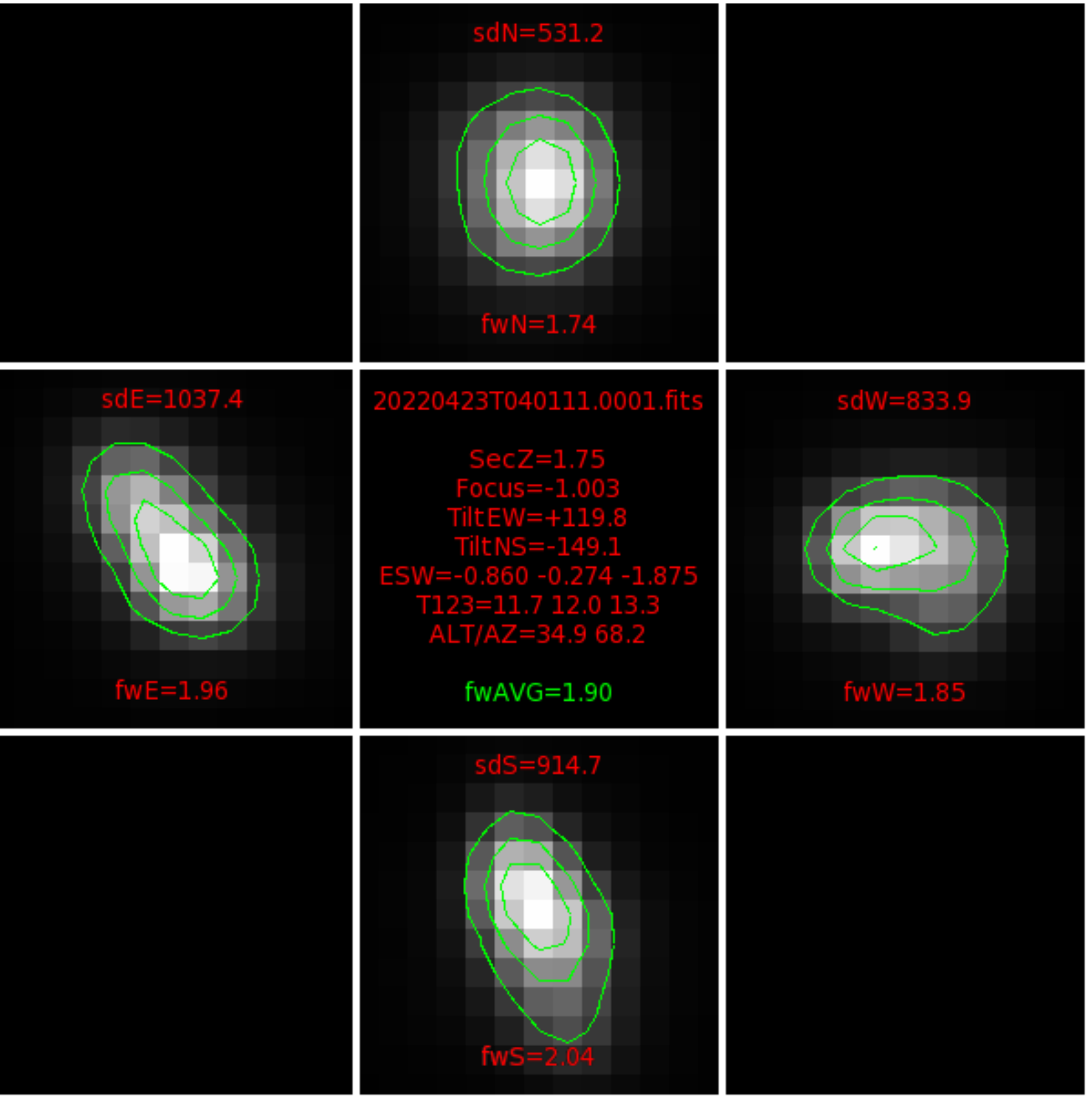
sdN=531.2
fwN=1.74
sdE=1037.4
fwE=1.96
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SecZ=1.75
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.7 12.0 13.3
ALT/AZ=34.9 68.2
fwAVG=1.90
sdW=833.9
fwW=1.85
sdS=914.7
fwS=2.04
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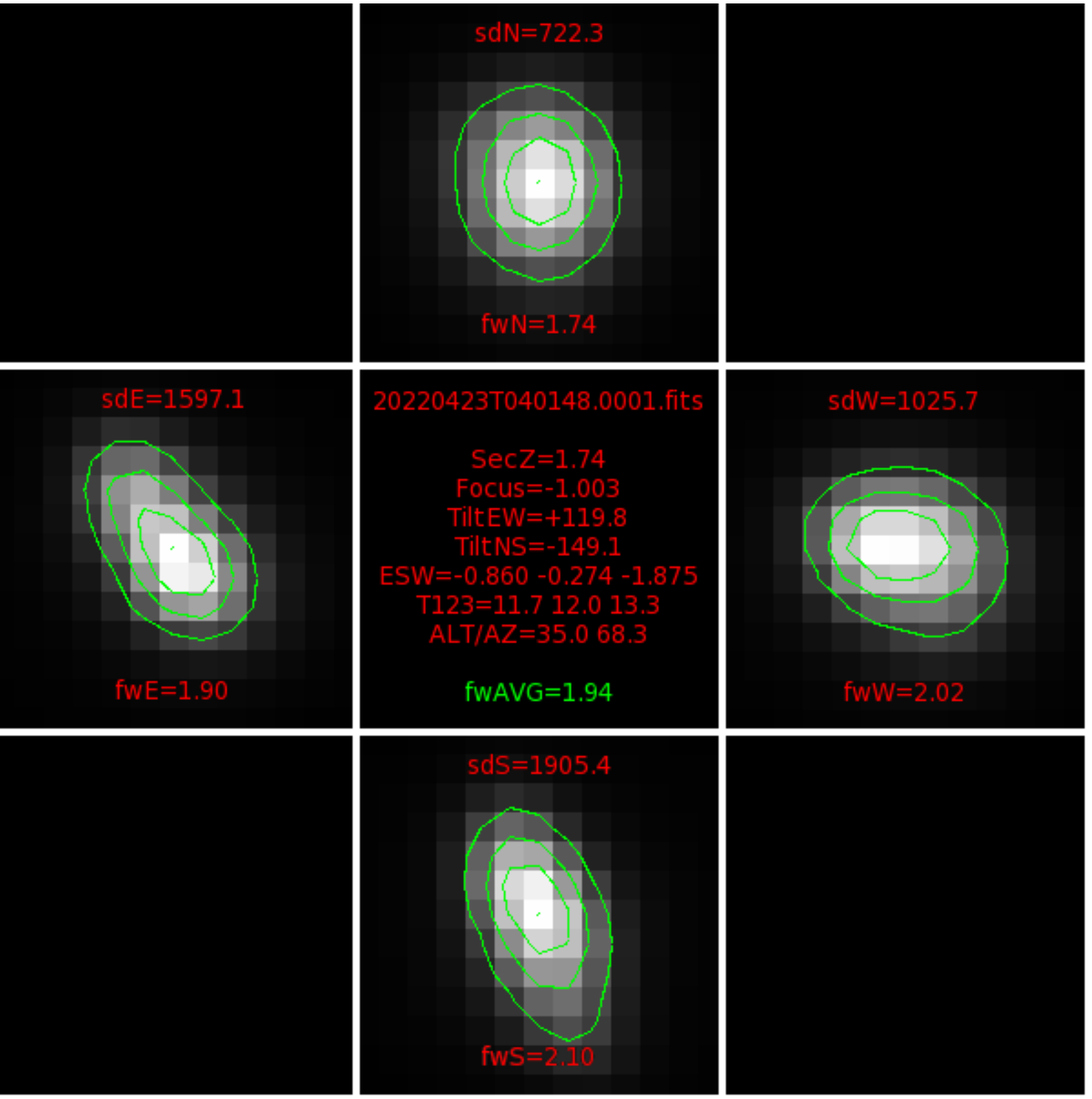
sdN=722.3
fwN=1.74
sdE=1597.1
fwE=1.90
20220423T040148.0001.fits
SecZ=1.74
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.7 12.0 13.3
ALT/AZ=35.0 68.3
fwAVG=1.94
sdW=1025.7
fwW=2.02
sdS=1905.4
fwS=2.10
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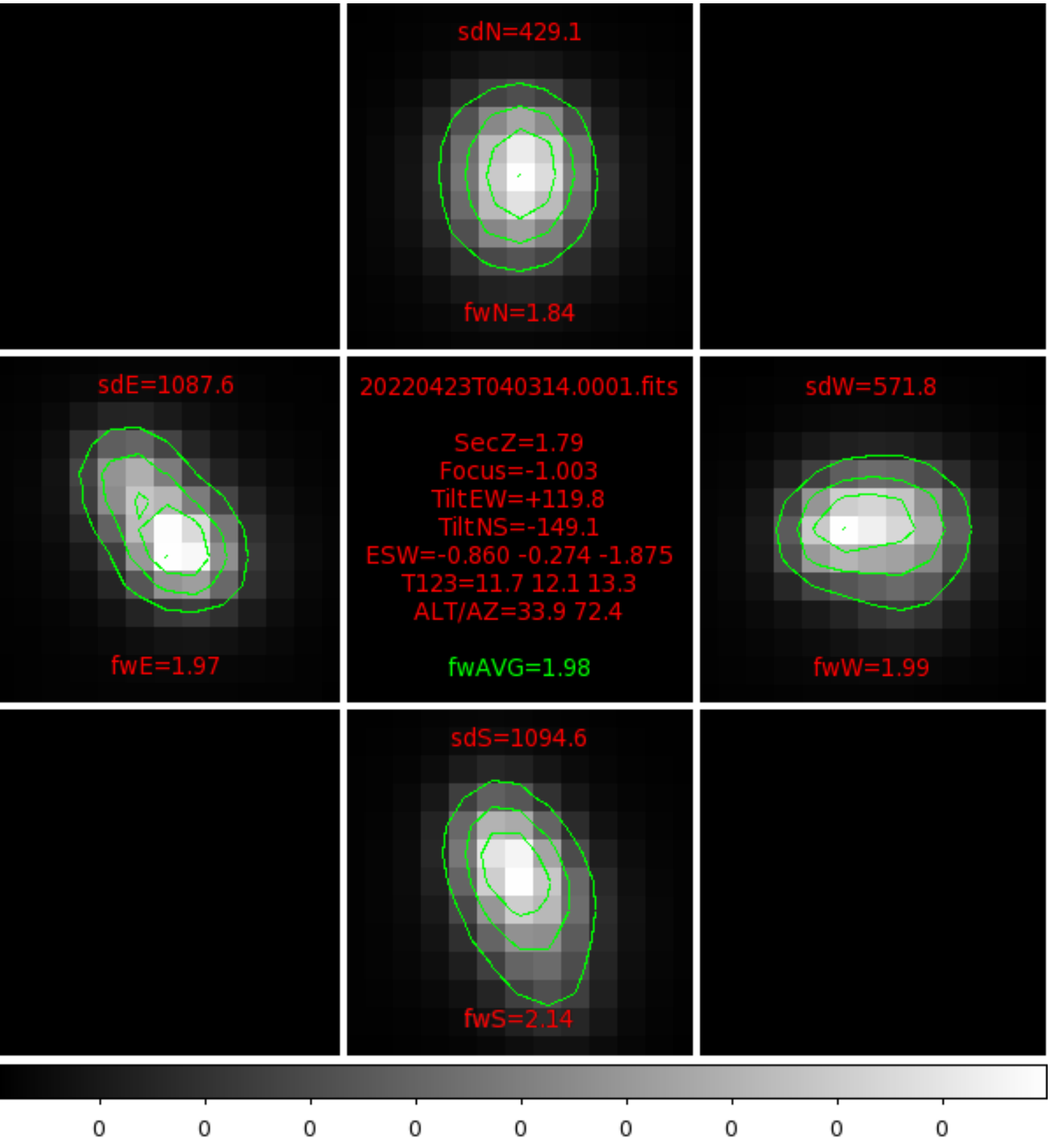
sdN=429.1
fwN=1.84
sdE=1087.6
fwE=1.97
20220423T040314.0001.fits
SecZ=1.79
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.7 12.1 13.3
ALT/AZ=33.9 72.4
fwAVG=1.98
sdW=571.8
fwW=1.99
sdS=1094.6
fwS=2.14
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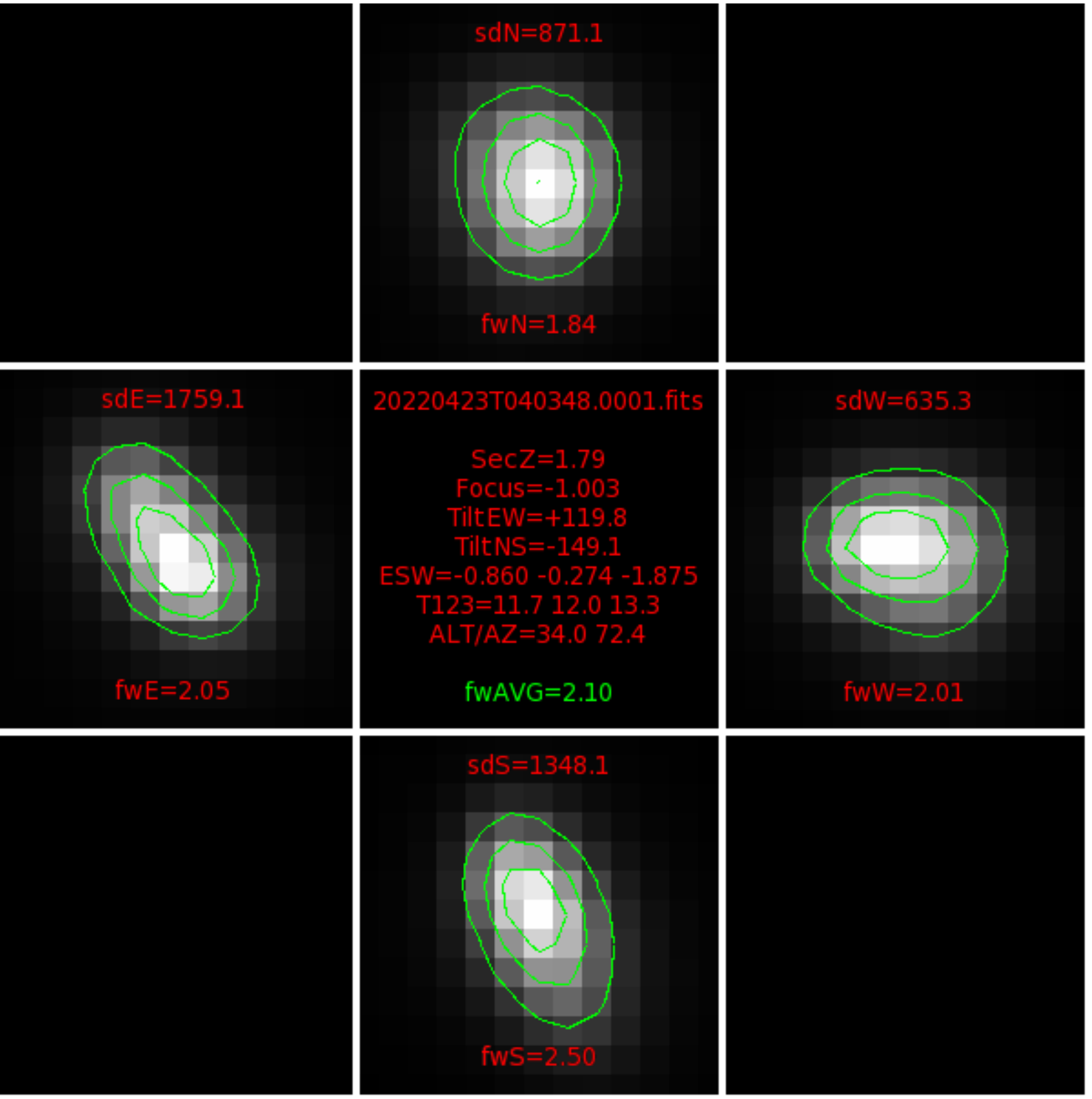
sdN=871.1
fwN=1.84
sdE=1759.1
fwE=2.05
20220423T040348.0001.fits
SecZ=1.79
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.7 12.0 13.3
ALT/AZ=34.0 72.4
fwAVG=2.10
sdW=635.3
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sdS=1348.1
fwS=2.50
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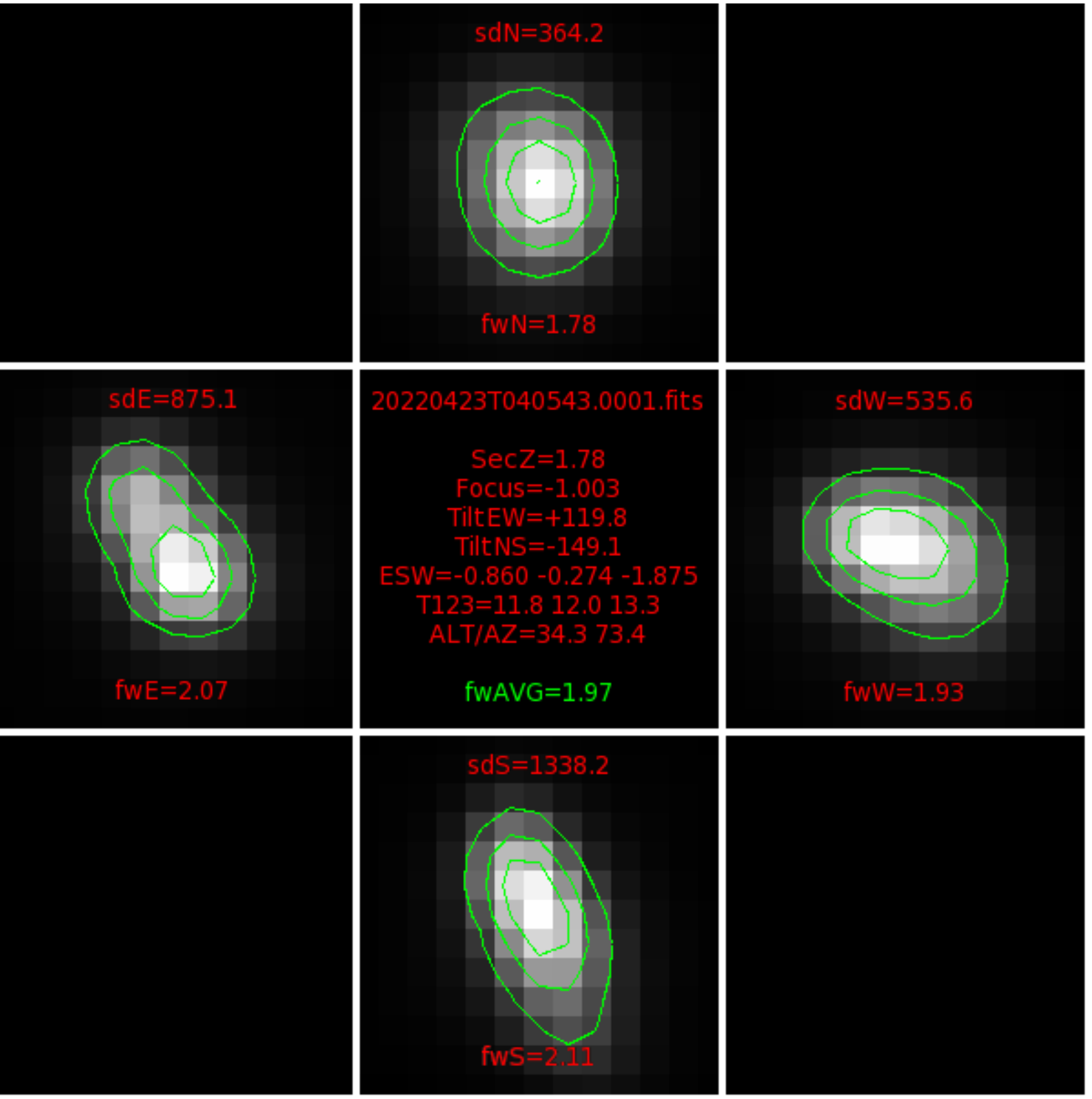
sdN=364.2
fwN=1.78
sdE=875.1
fwE=2.07
20220423T040543.0001.fits
SecZ=1.78
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.8 12.0 13.3
ALT/AZ=34.3 73.4
fwAVG=1.97
sdW=535.6
fwW=1.93
sdS=1338.2
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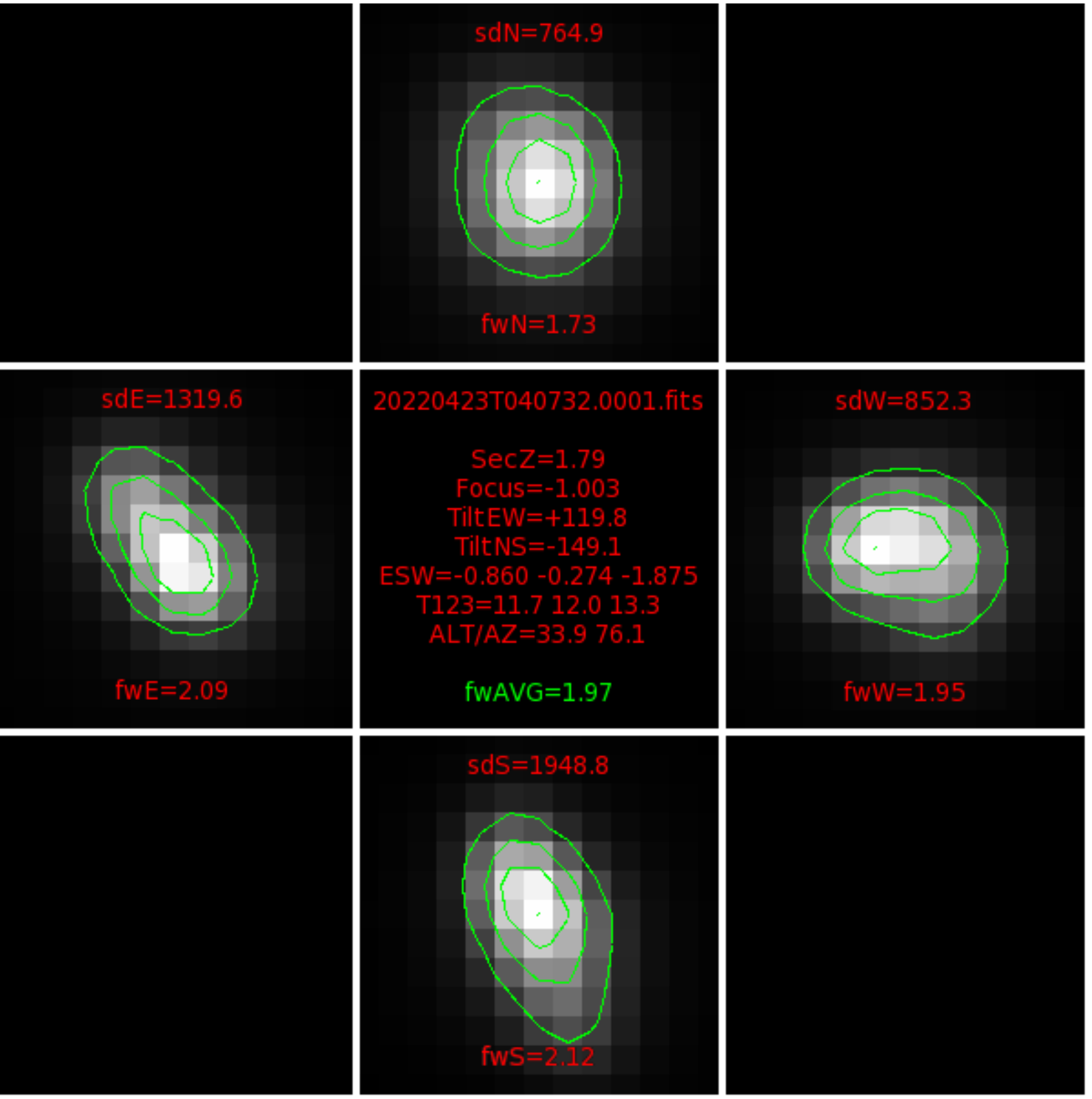
sdN=764.9
fwN=1.73
sdE=1319.6
fwE=2.09
20220423T040732.0001.fits
SecZ=1.79
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.7 12.0 13.3
ALT/AZ=33.9 76.1
fwAVG=1.97
sdW=852.3
fwW=1.95
sdS=1948.8
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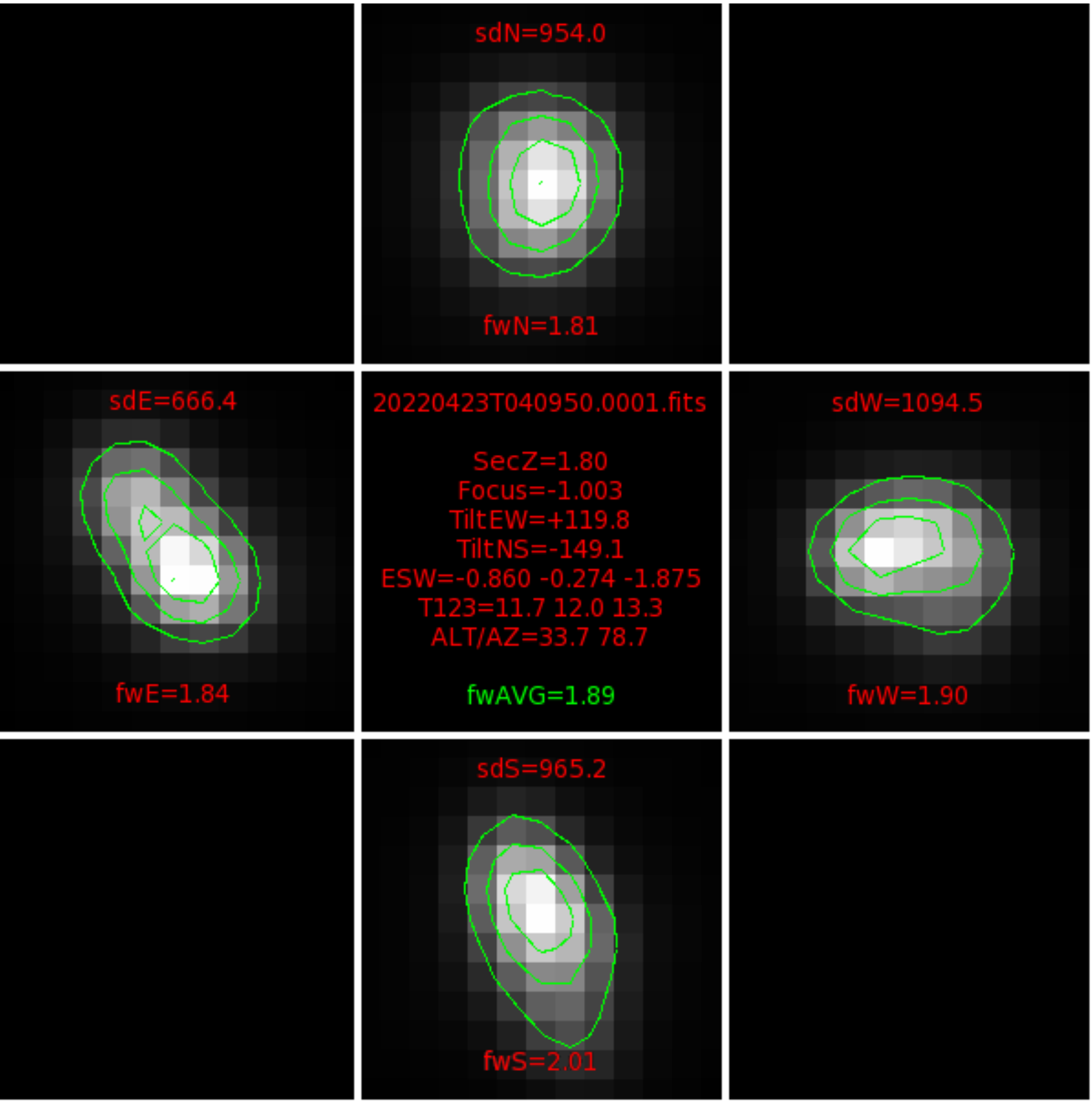
sdN=954.0
fwN=1.81
sdE=666.4
fwE=1.84
20220423T040950.0001.fits
SecZ=1.80
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.7 12.0 13.3
ALT/AZ=33.7 78.7
fwAVG=1.89
sdW=1094.5
fwW=1.90
sdS=965.2
fwS=2.01
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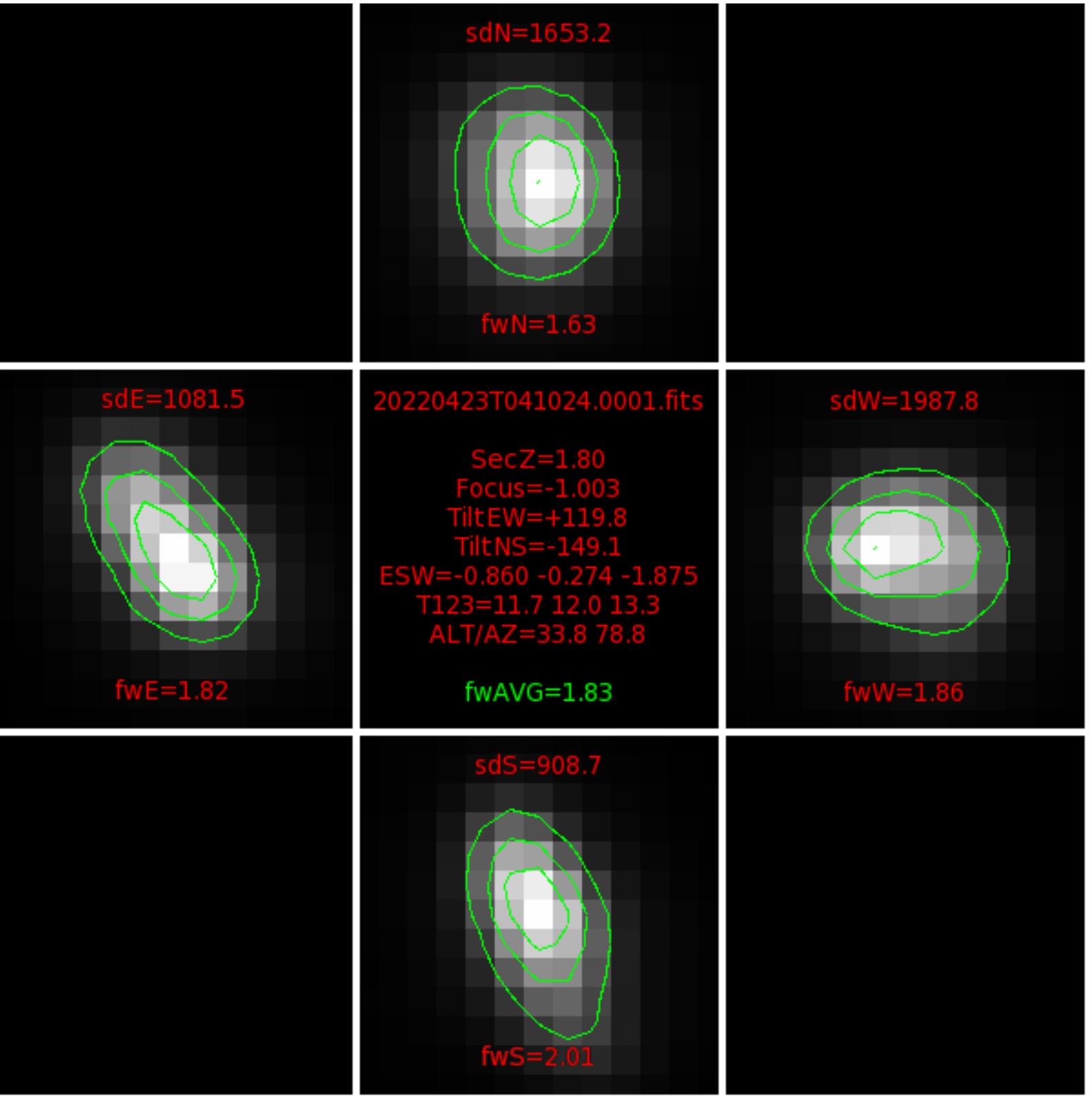
sdN=1653.2
fwN=1.63
sdE=1081.5
fwE=1.82
20220423T041024.0001.fits
SecZ=1.80
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.7 12.0 13.3
ALT/AZ=33.8 78.8
fwAVG=1.83
sdW=1987.8
fwW=1.86
sdS=908.7
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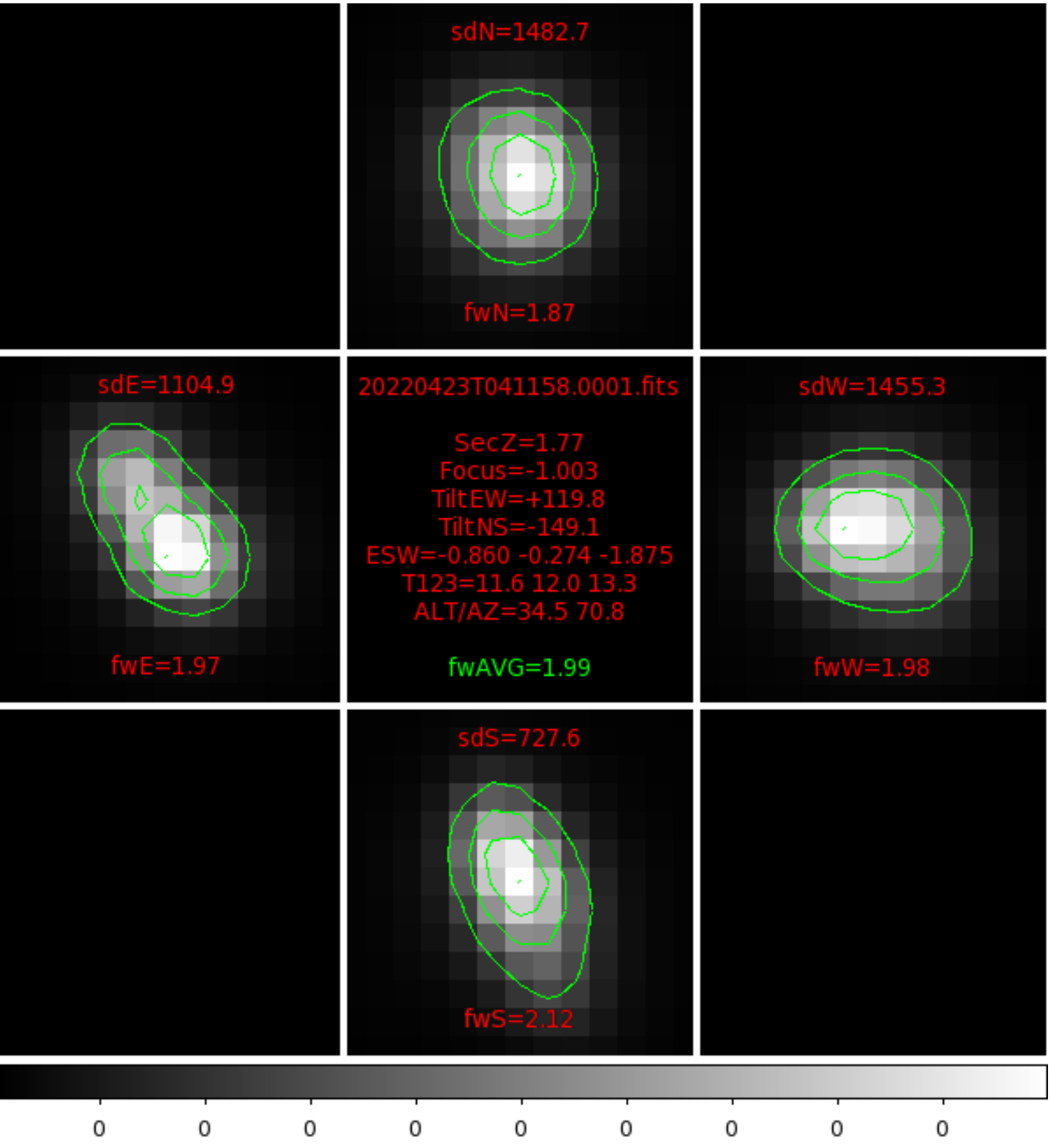
sdN=1482.7
fwN=1.87
sdE=1104.9
fwE=1.97
20220423T041158.0001.fits
SecZ=1.77
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.6 12.0 13.3
ALT/AZ=34.5 70.8
fwAVG=1.99
sdW=1455.3
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sdS=727.6
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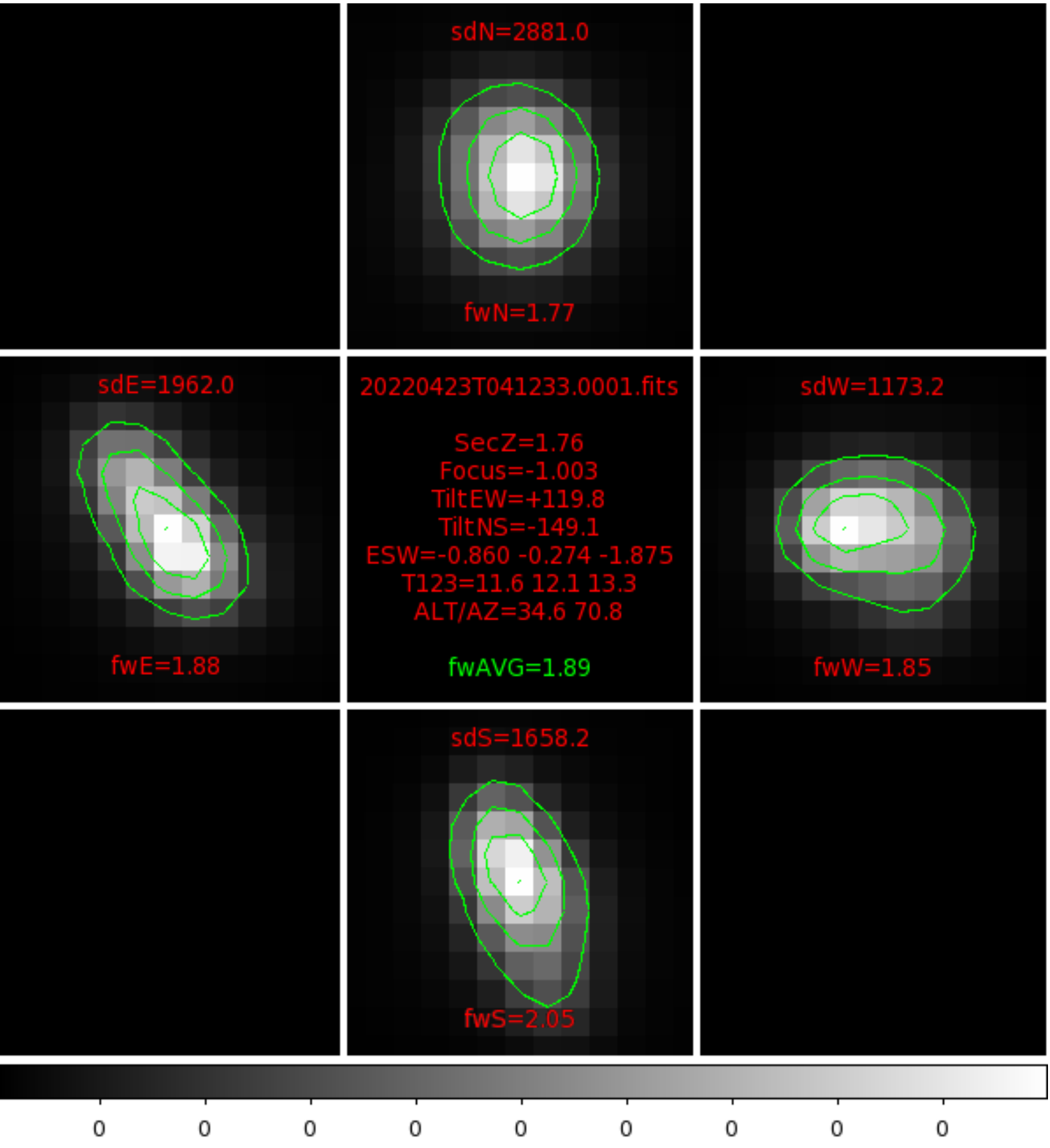
sdN=2881.0
fwN=1.77
sdE=1962.0
fwE=1.88
20220423T041233.0001.fits
SecZ=1.76
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.6 12.1 13.3
ALT/AZ=34.6 70.8
fwAVG=1.89
sdW=1173.2
fwW=1.85
sdS=1658.2
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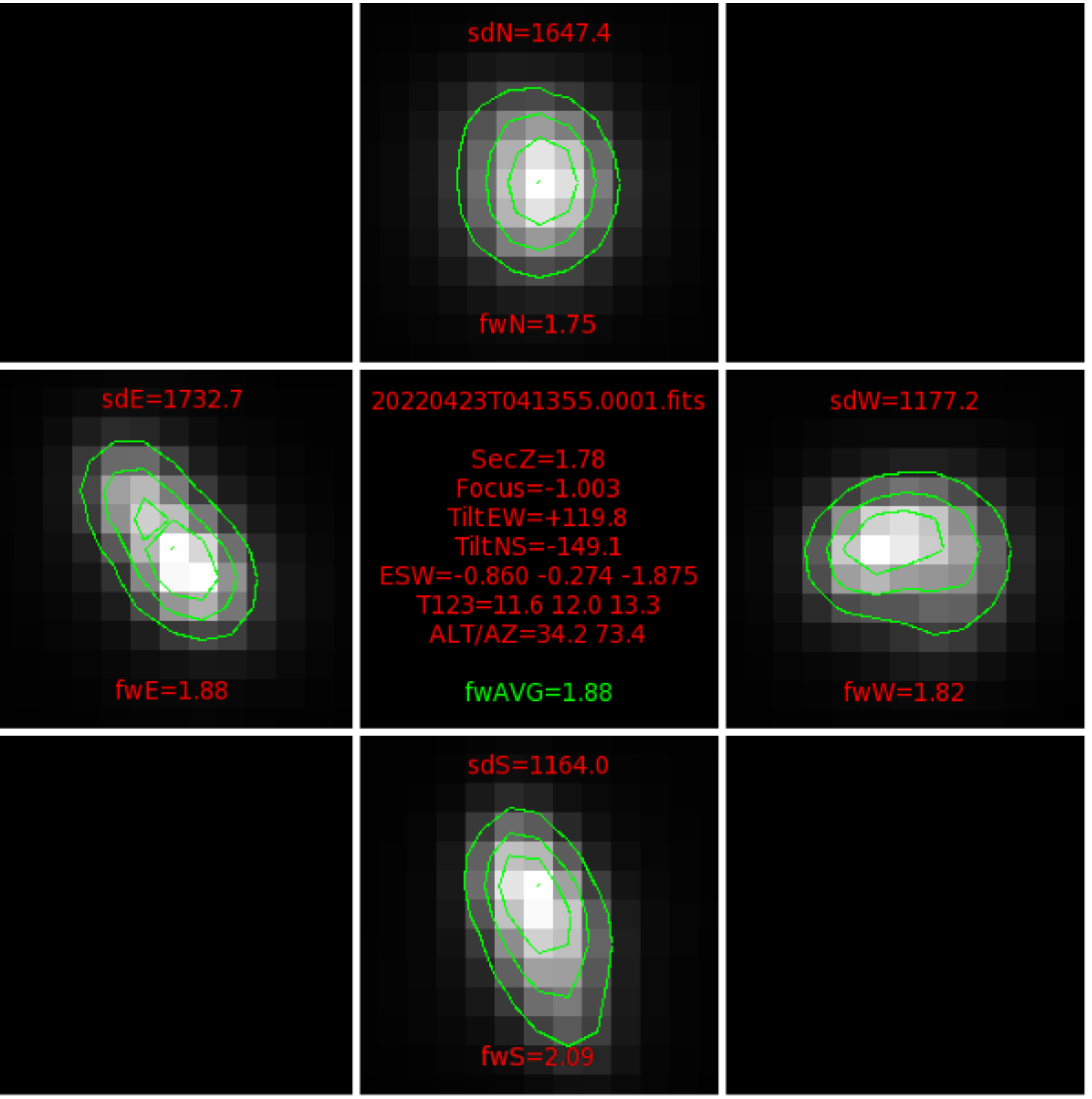
sdN=1647.4
fwN=1.75
sdE=1732.7
fwE=1.88
20220423T041355.0001.fits
SecZ=1.78
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.6 12.0 13.3
ALT/AZ=34.2 73.4
fwAVG=1.88
sdW=1177.2
fwW=1.82
sdS=1164.0
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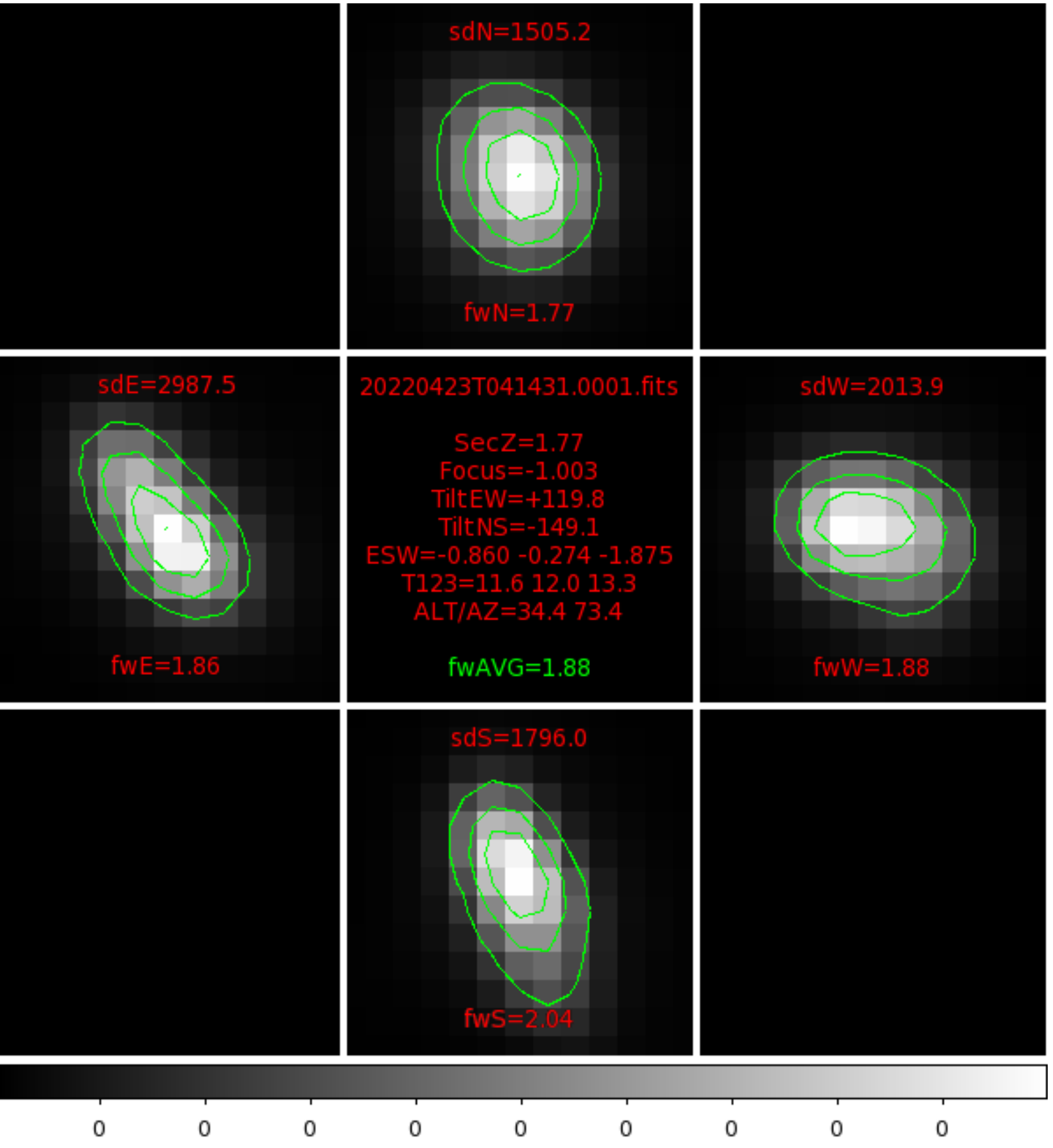
sdN=1505.2
fwN=1.77
sdE=2987.5
fwE=1.86
20220423T041431.0001.fits
SecZ=1.77
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.6 12.0 13.3
ALT/AZ=34.4 73.4
fwAVG=1.88
sdW=2013.9
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sdS=1796.0
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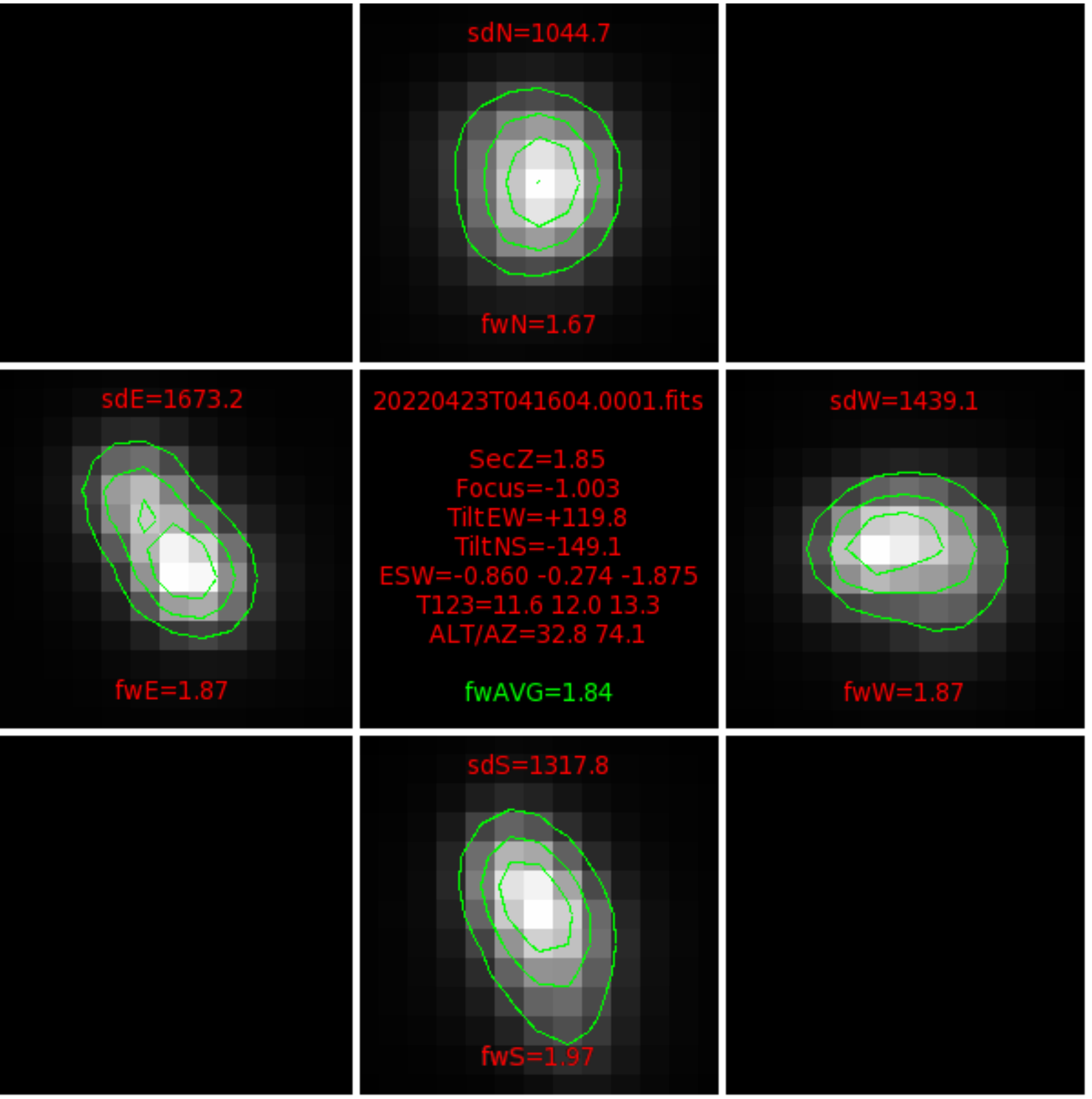
sdN=1044.7
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sdE=1673.2
fwE=1.87
20220423T041604.0001.fits
SecZ=1.85
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.6 12.0 13.3
ALT/AZ=32.8 74.1
fwAVG=1.84
sdW=1439.1
fwW=1.87
sdS=1317.8
fwS=1.97
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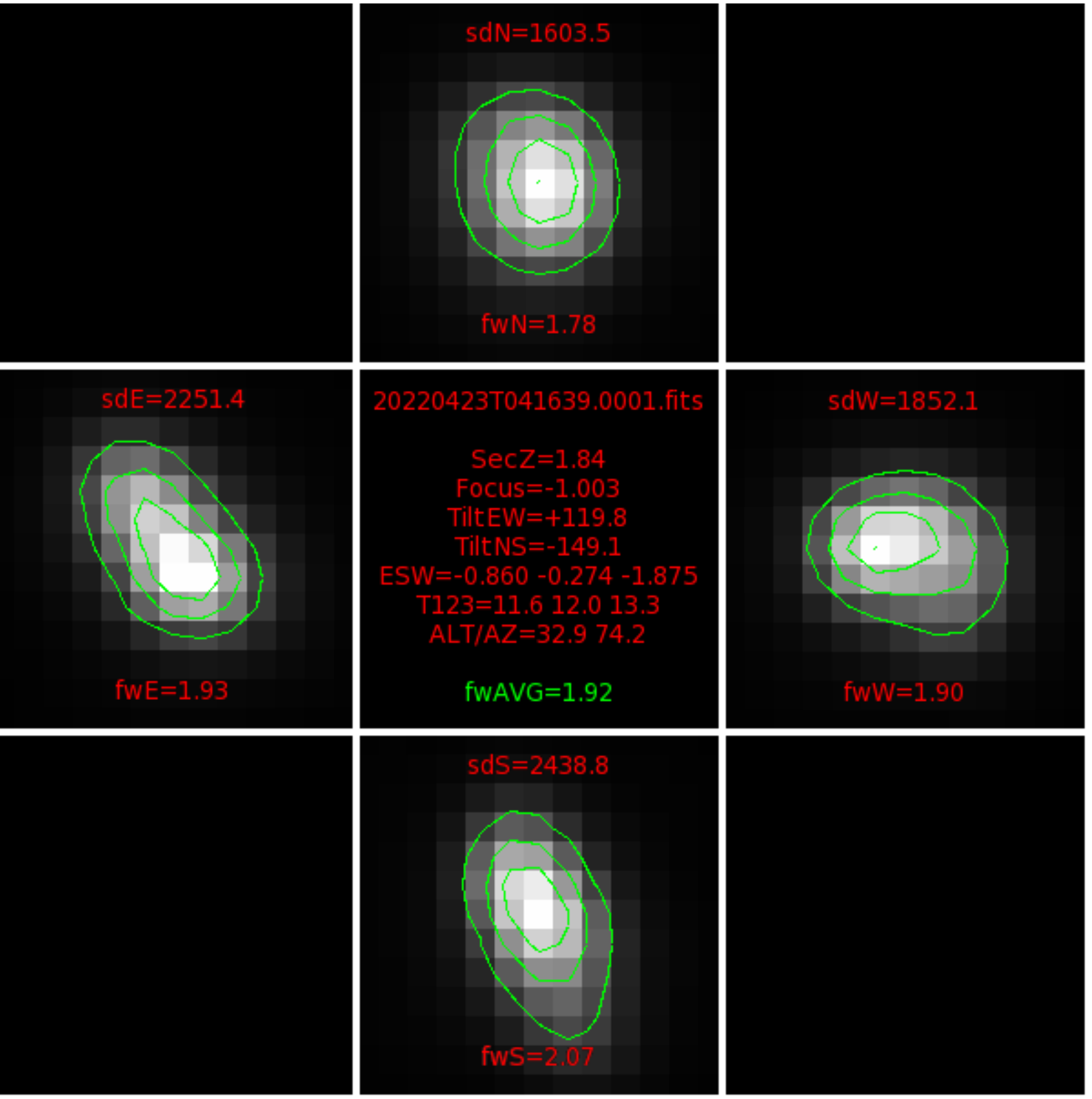
sdN=1603.5
fwN=1.78
sdE=2251.4
fwE=1.93
20220423T041639.0001.fits
SecZ=1.84
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.6 12.0 13.3
ALT/AZ=32.9 74.2
fwAVG=1.92
sdW=1852.1
fwW=1.90
sdS=2438.8
fwS=2.07
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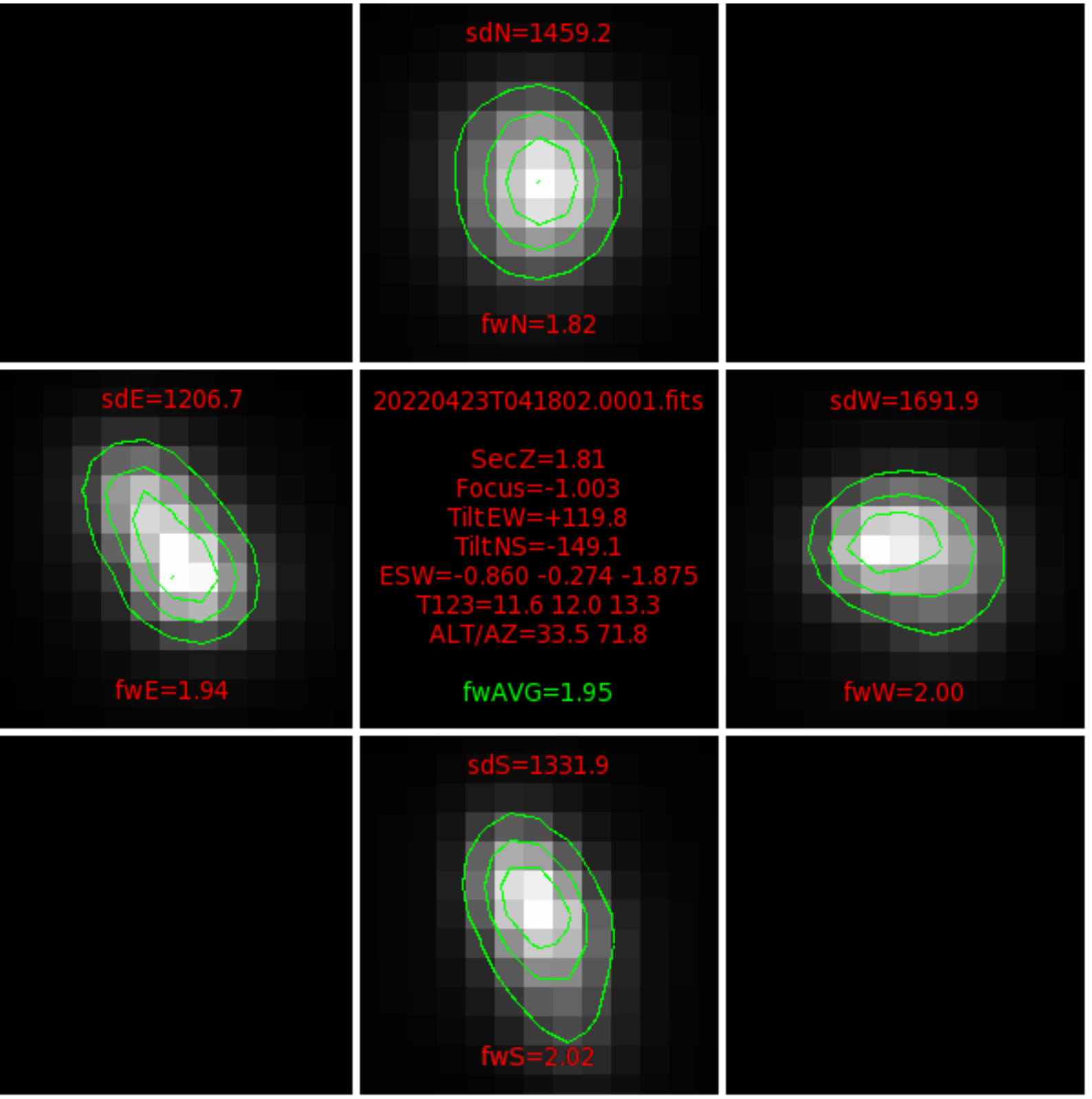
sdN=1459.2
fwN=1.82
sdE=1206.7
fwE=1.94
20220423T041802.0001.fits
SecZ=1.81
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.6 12.0 13.3
ALT/AZ=33.5 71.8
fwAVG=1.95
sdW=1691.9
fwW=2.00
sdS=1331.9
fwS=2.02
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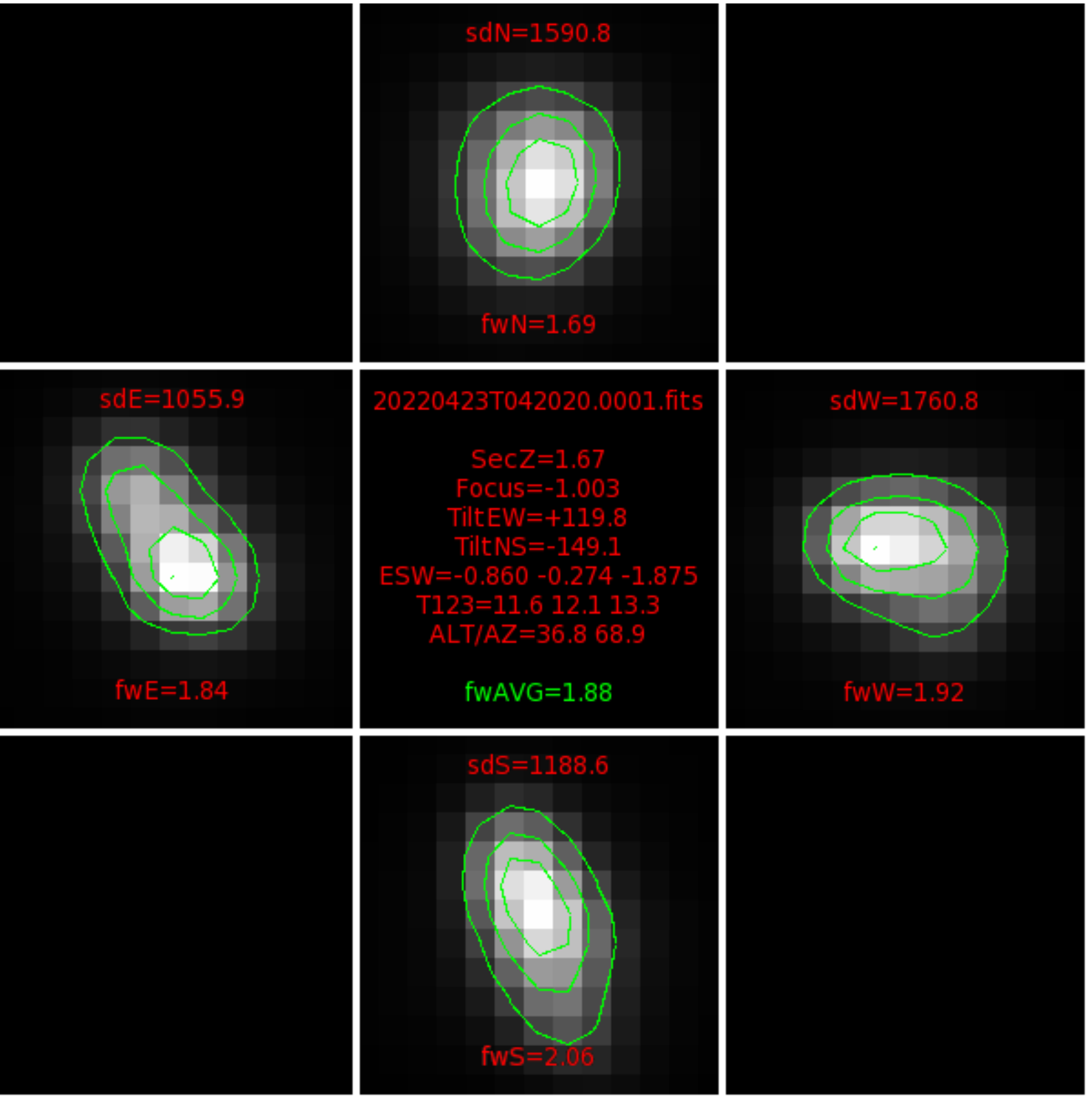
sdN=1590.8
fwN=1.69
sdE=1055.9
fwE=1.84
20220423T042020.0001.fits
SecZ=1.67
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.6 12.1 13.3
ALT/AZ=36.8 68.9
fwAVG=1.88
sdW=1760.8
fwW=1.92
sdS=1188.6
fwS=2.06
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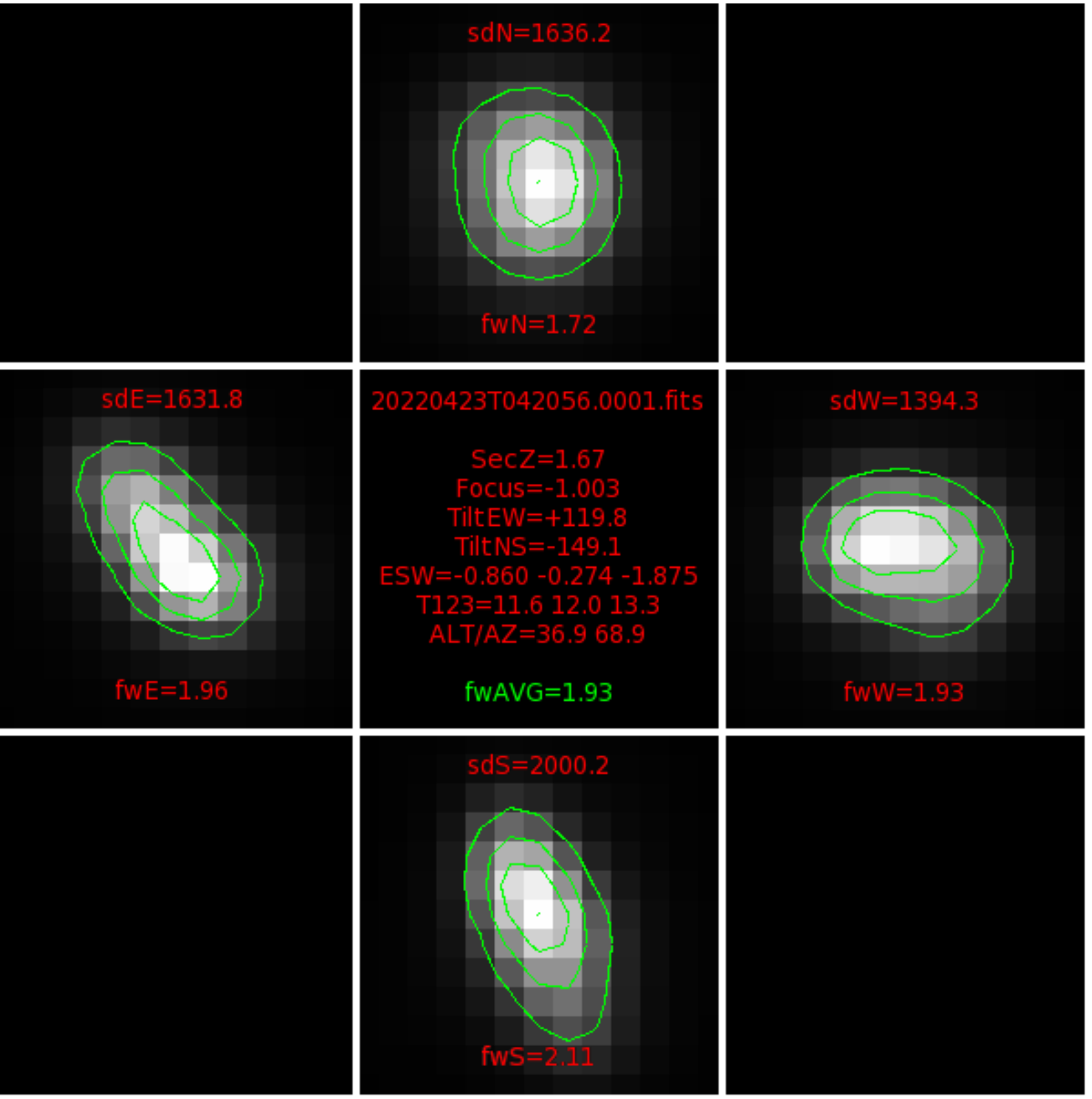
sdN=1636.2
fwN=1.72
sdE=1631.8
fwE=1.96
20220423T042056.0001.fits
SecZ=1.67
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.6 12.0 13.3
ALT/AZ=36.9 68.9
fwAVG=1.93
sdW=1394.3
fwW=1.93
sdS=2000.2
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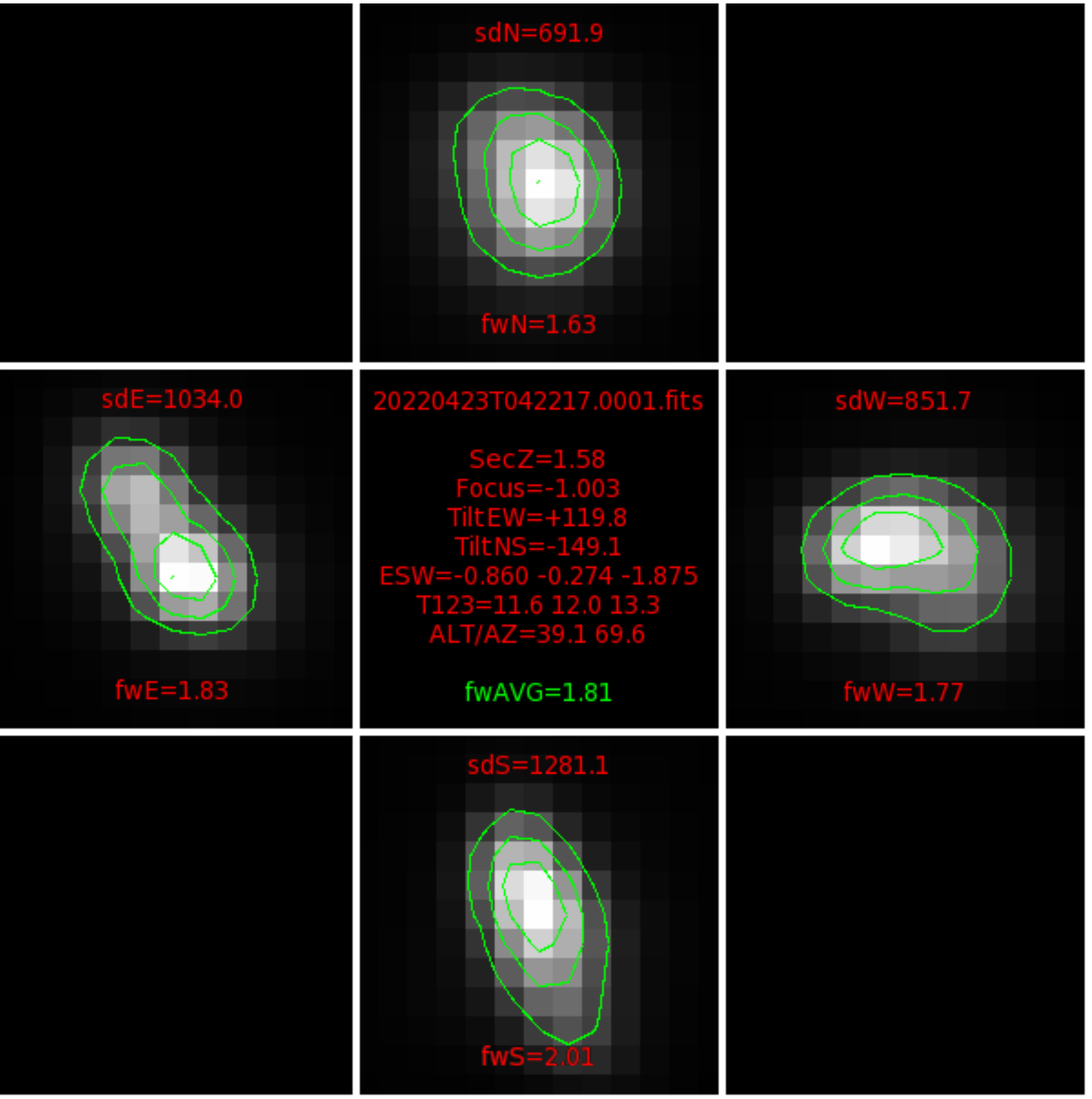
sdN=691.9
fwN=1.63
sdE=1034.0
fwE=1.83
20220423T042217.0001.fits
SecZ=1.58
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.6 12.0 13.3
ALT/AZ=39.1 69.6
fwAVG=1.81
sdW=851.7
fwW=1.77
sdS=1281.1
fwS=2.01
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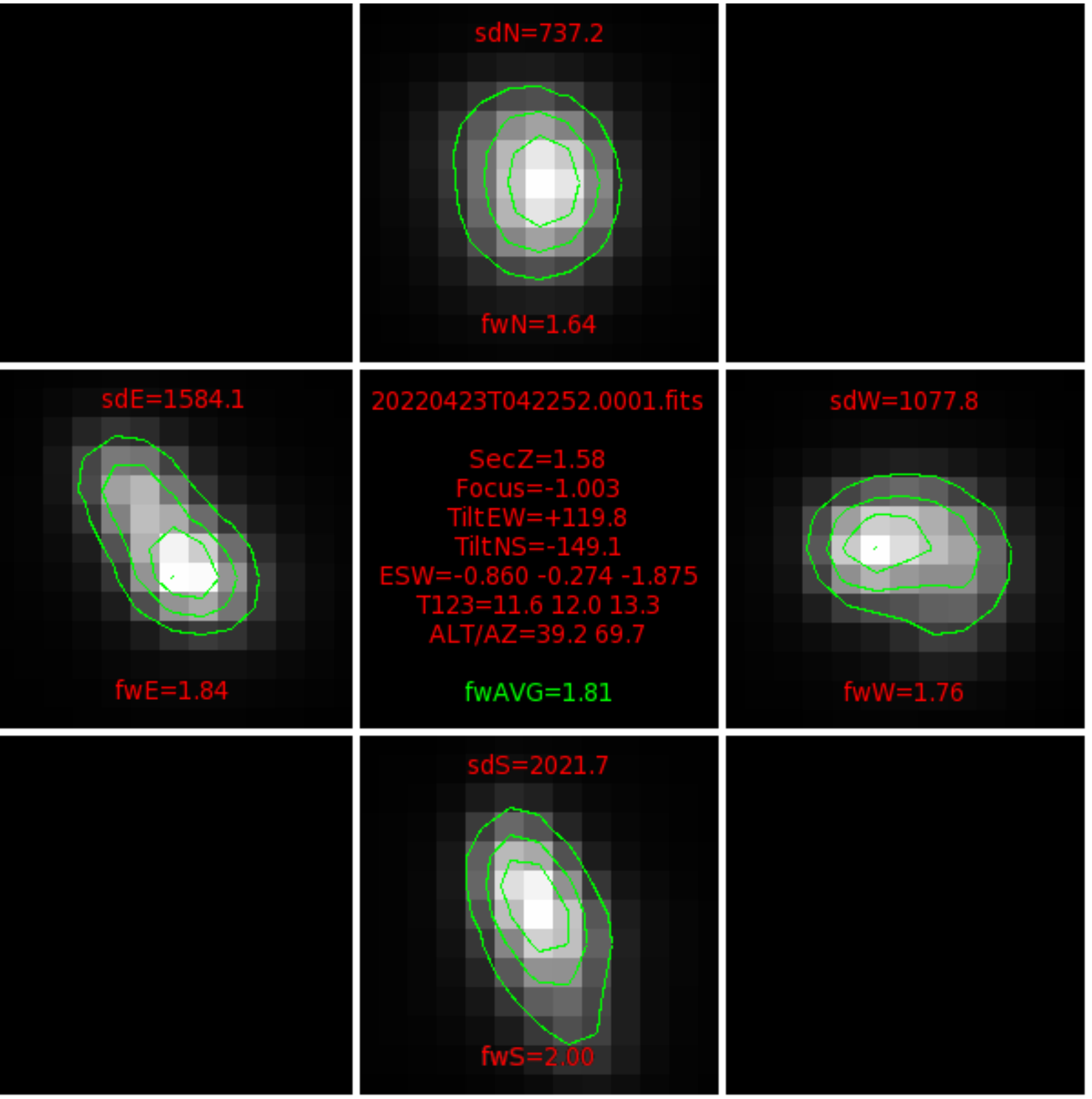
sdN=737.2
fwN=1.64
sdE=1584.1
fwE=1.84
20220423T042252.0001.fits
SecZ=1.58
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.6 12.0 13.3
ALT/AZ=39.2 69.7
fwAVG=1.81
sdW=1077.8
fwW=1.76
sdS=2021.7
fwS=2.00
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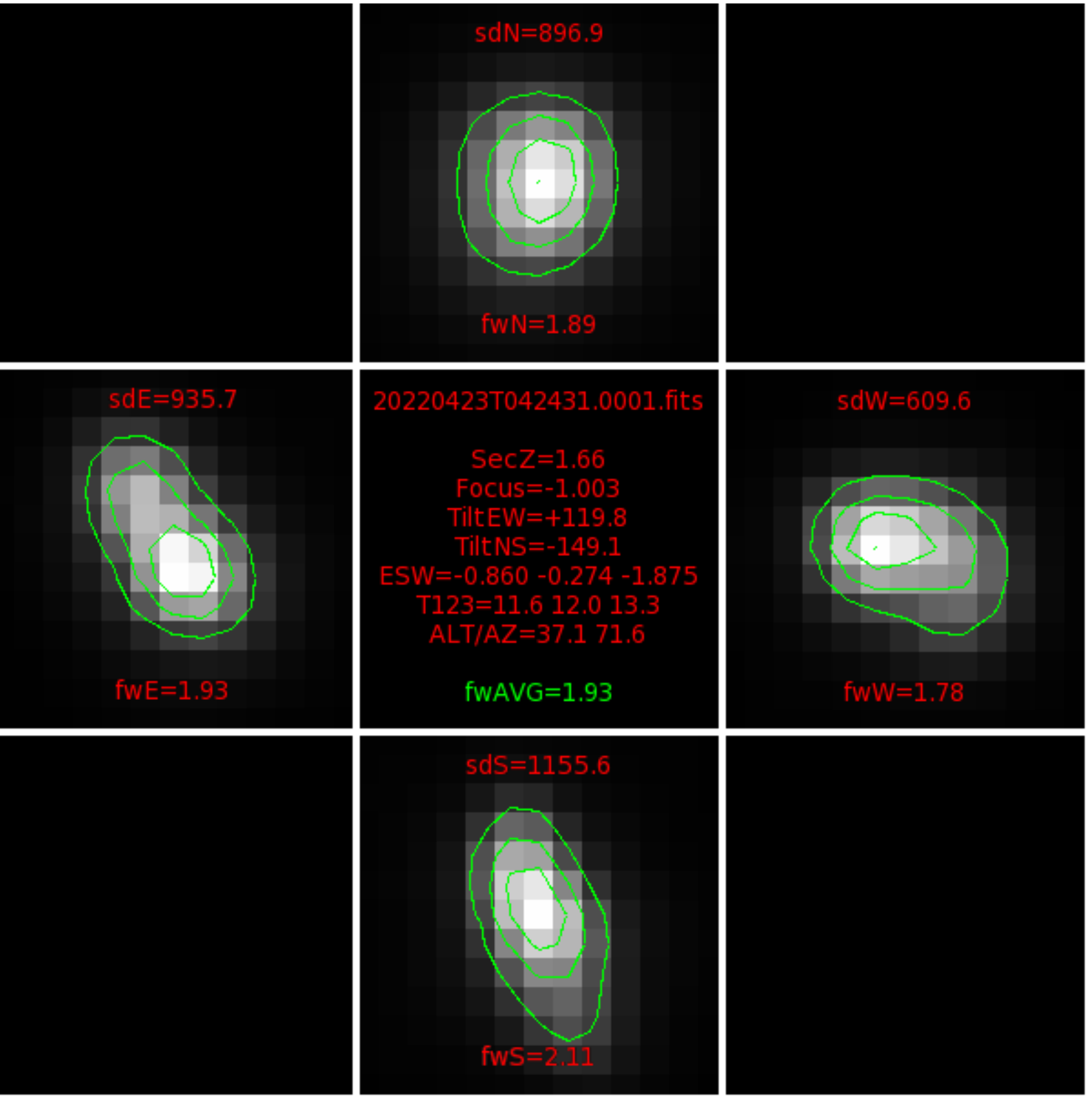
sdN=896.9
fwN=1.89
sdE=935.7
fwE=1.93
20220423T042431.0001.fits
SecZ=1.66
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.6 12.0 13.3
ALT/AZ=37.1 71.6
fwAVG=1.93
sdW=609.6
fwW=1.78
sdS=1155.6
fwS=2.11
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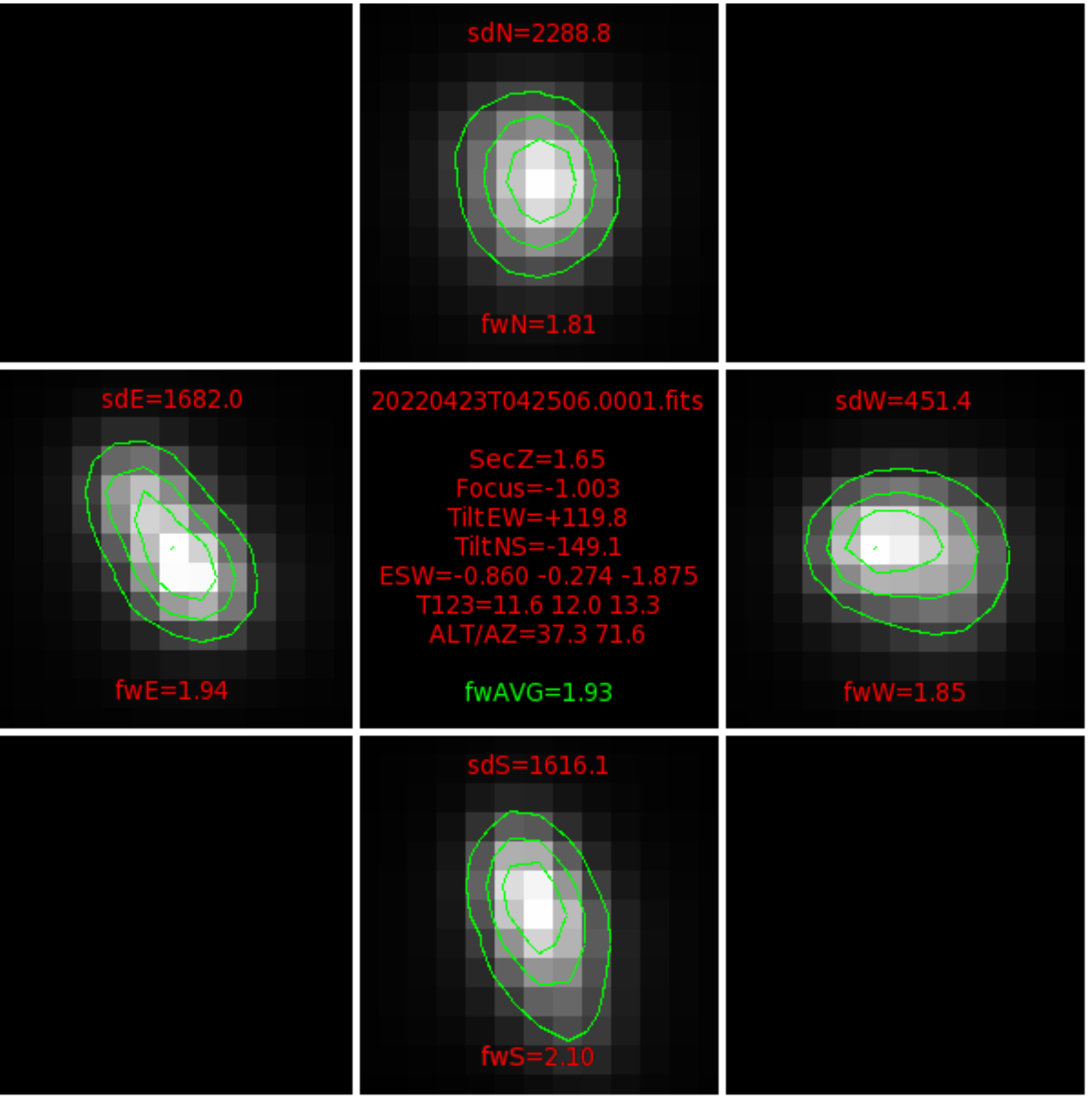
sdN=2288.8
fwN=1.81
sdE=1682.0
fwE=1.94
20220423T042506.0001.fits
SecZ=1.65
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.6 12.0 13.3
ALT/AZ=37.3 71.6
fwAVG=1.93
sdW=451.4
fwW=1.85
sdS=1616.1
fwS=2.10
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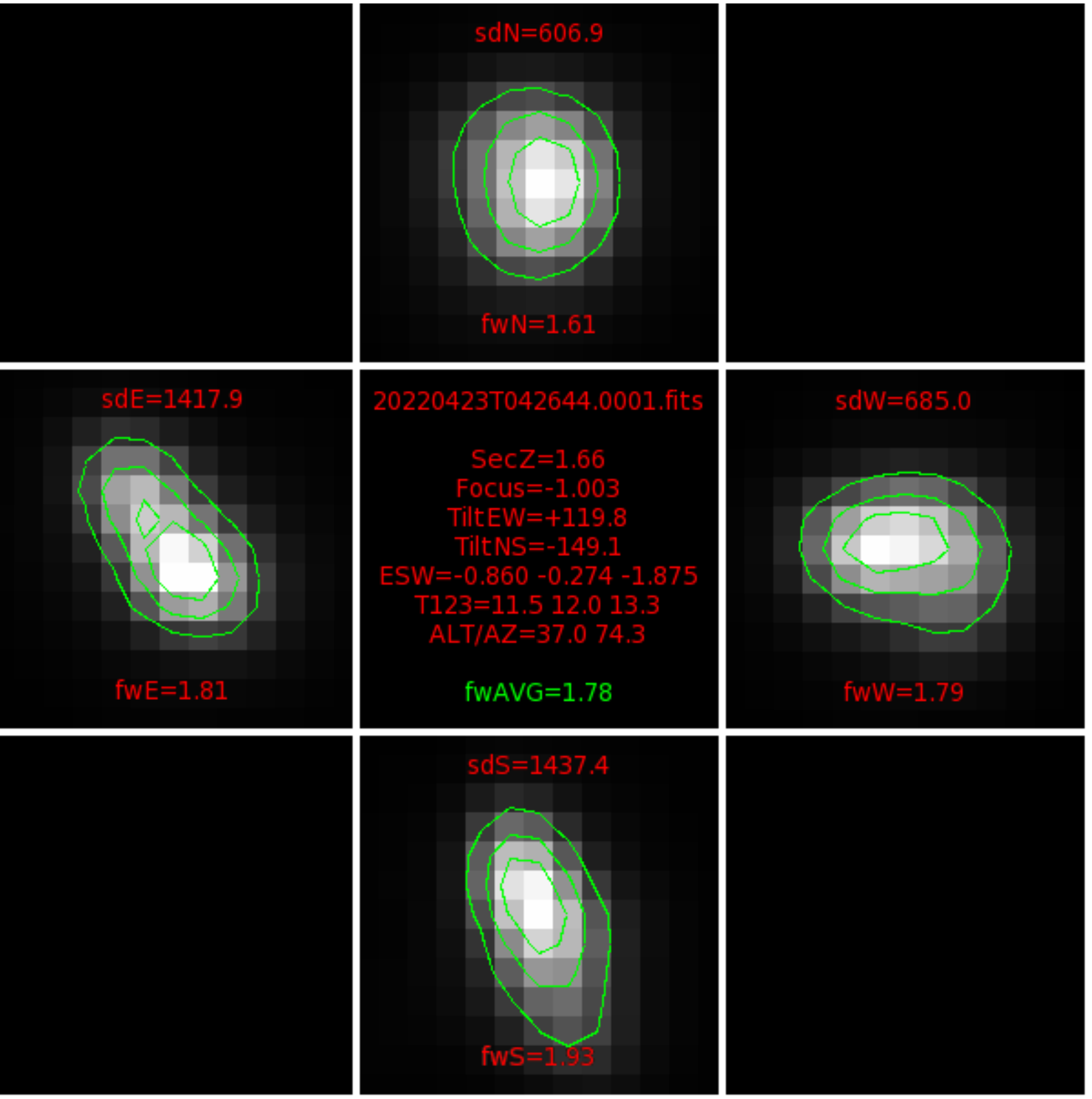
sdN=606.9
fwN=1.61
sdE=1417.9
fwE=1.81
20220423T042644.0001.fits
SecZ=1.66
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.5 12.0 13.3
ALT/AZ=37.0 74.3
fwAVG=1.78
sdW=685.0
fwW=1.79
sdS=1437.4
fwS=1.93
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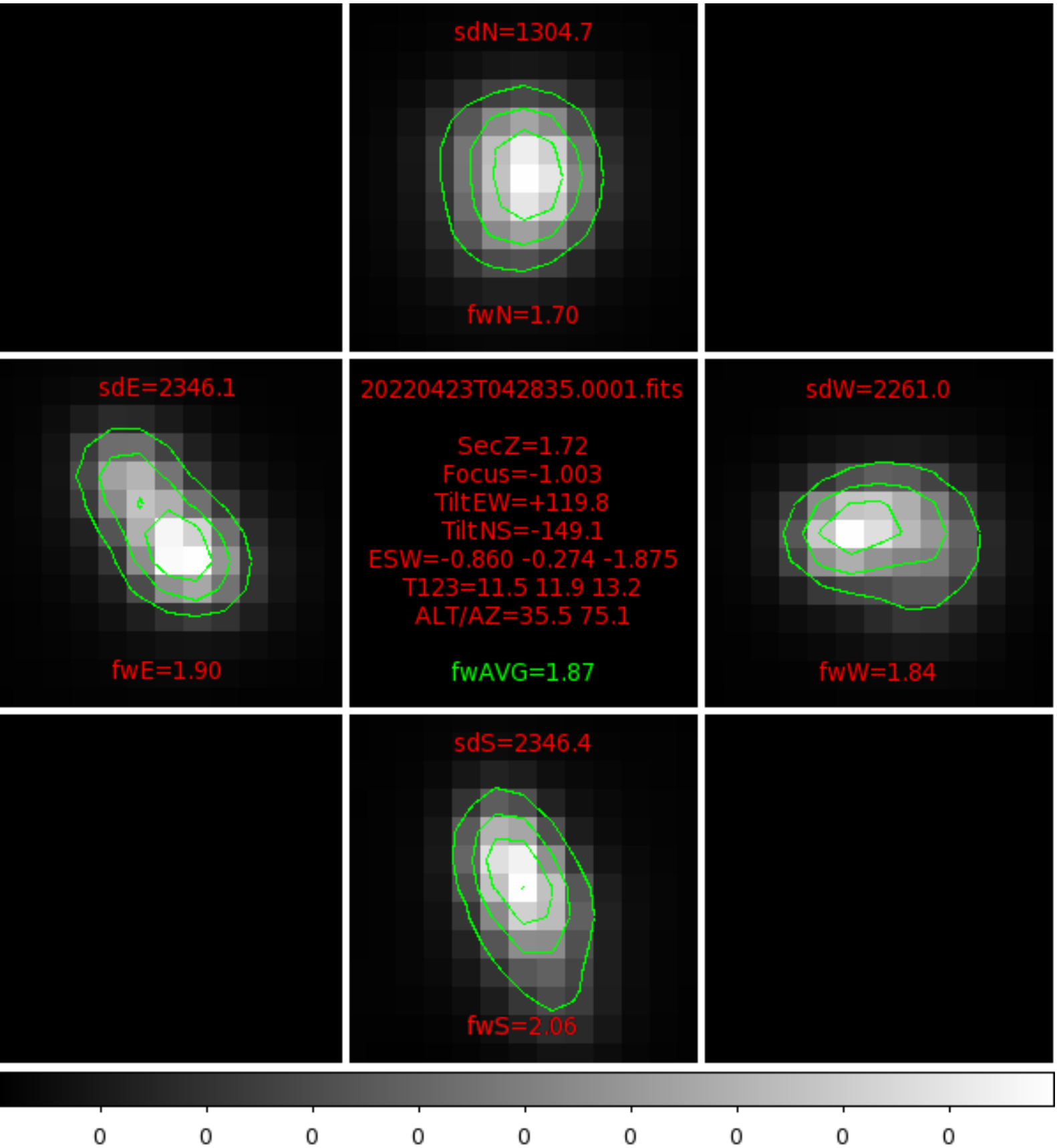
sdN=1304.7
fwN=1.70
sdE=2346.1
fwE=1.90
20220423T042835.0001.fits
SecZ=1.72
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.5 11.9 13.2
ALT/AZ=35.5 75.1
fwAVG=1.87
sdW=2261.0
fwW=1.84
sdS=2346.4
fwS=2.06
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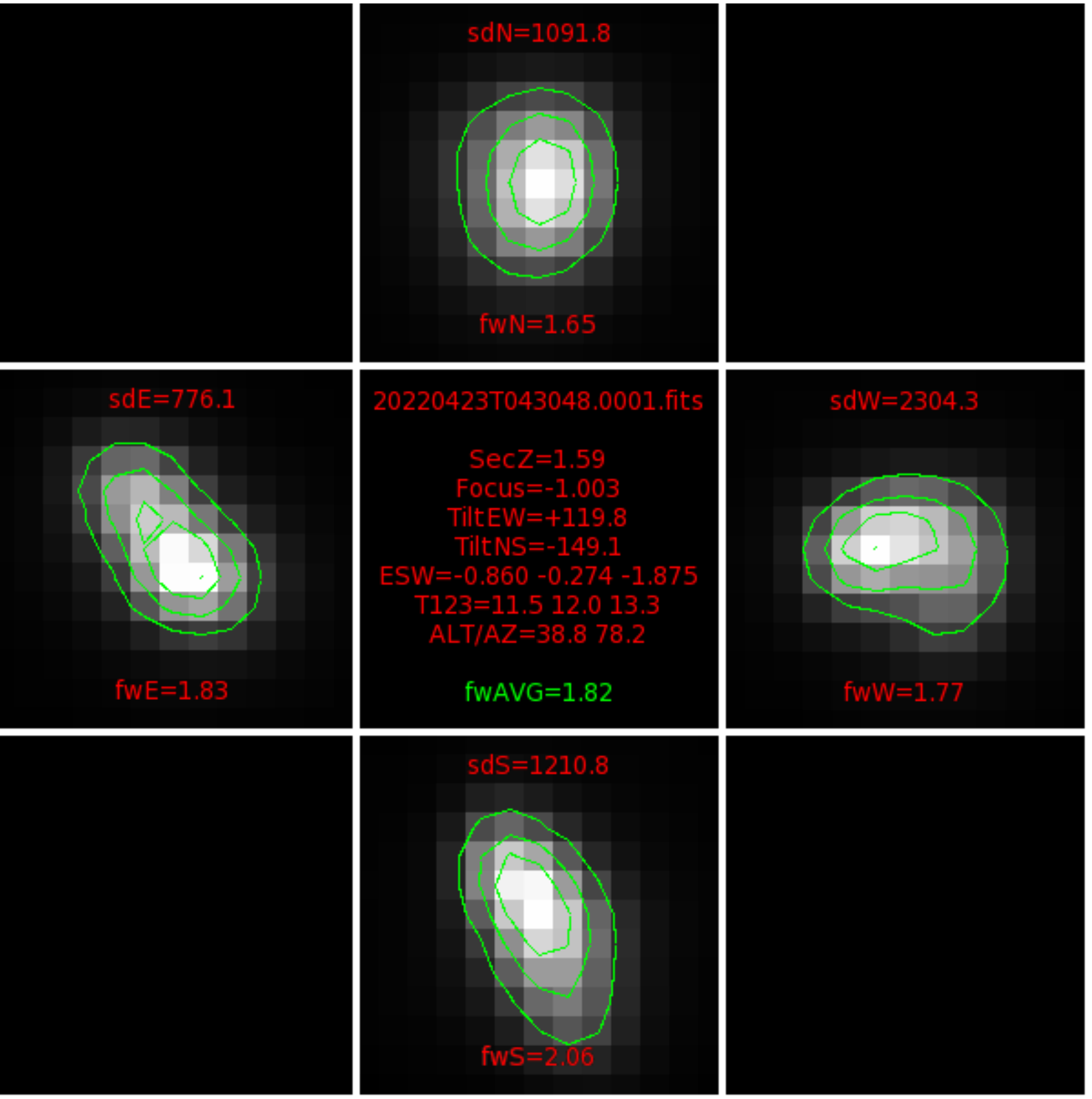
sdN=1091.8
fwN=1.65
sdE=776.1
fwE=1.83
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SecZ=1.59
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.5 12.0 13.3
ALT/AZ=38.8 78.2
fwAVG=1.82
sdW=2304.3
fwW=1.77
sdS=1210.8
fwS=2.06
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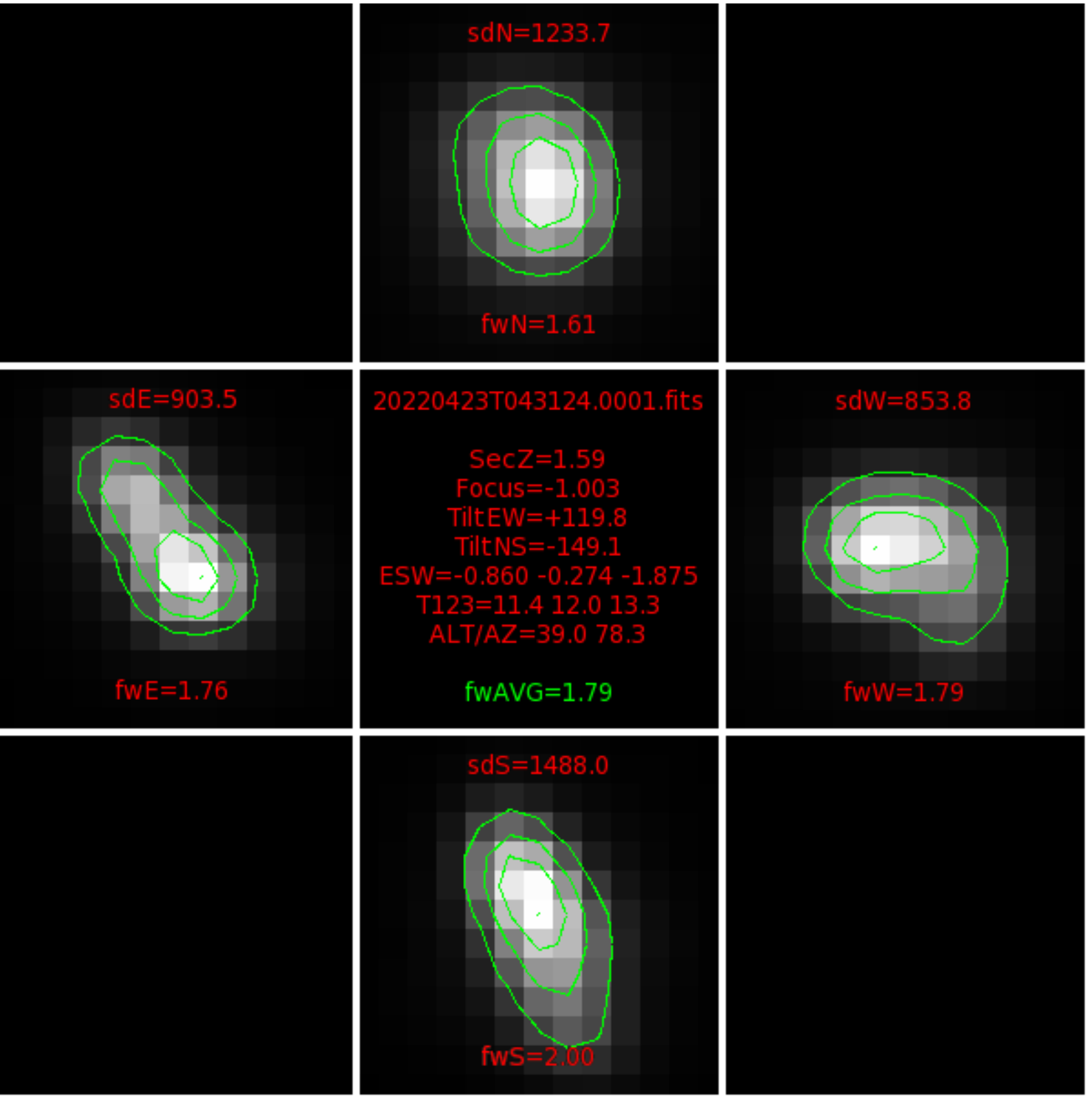
sdN=1233.7
fwN=1.61
sdE=903.5
fwE=1.76
20220423T043124.0001.fits
SecZ=1.59
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.4 12.0 13.3
ALT/AZ=39.0 78.3
fwAVG=1.79
sdW=853.8
fwW=1.79
sdS=1488.0
fwS=2.00
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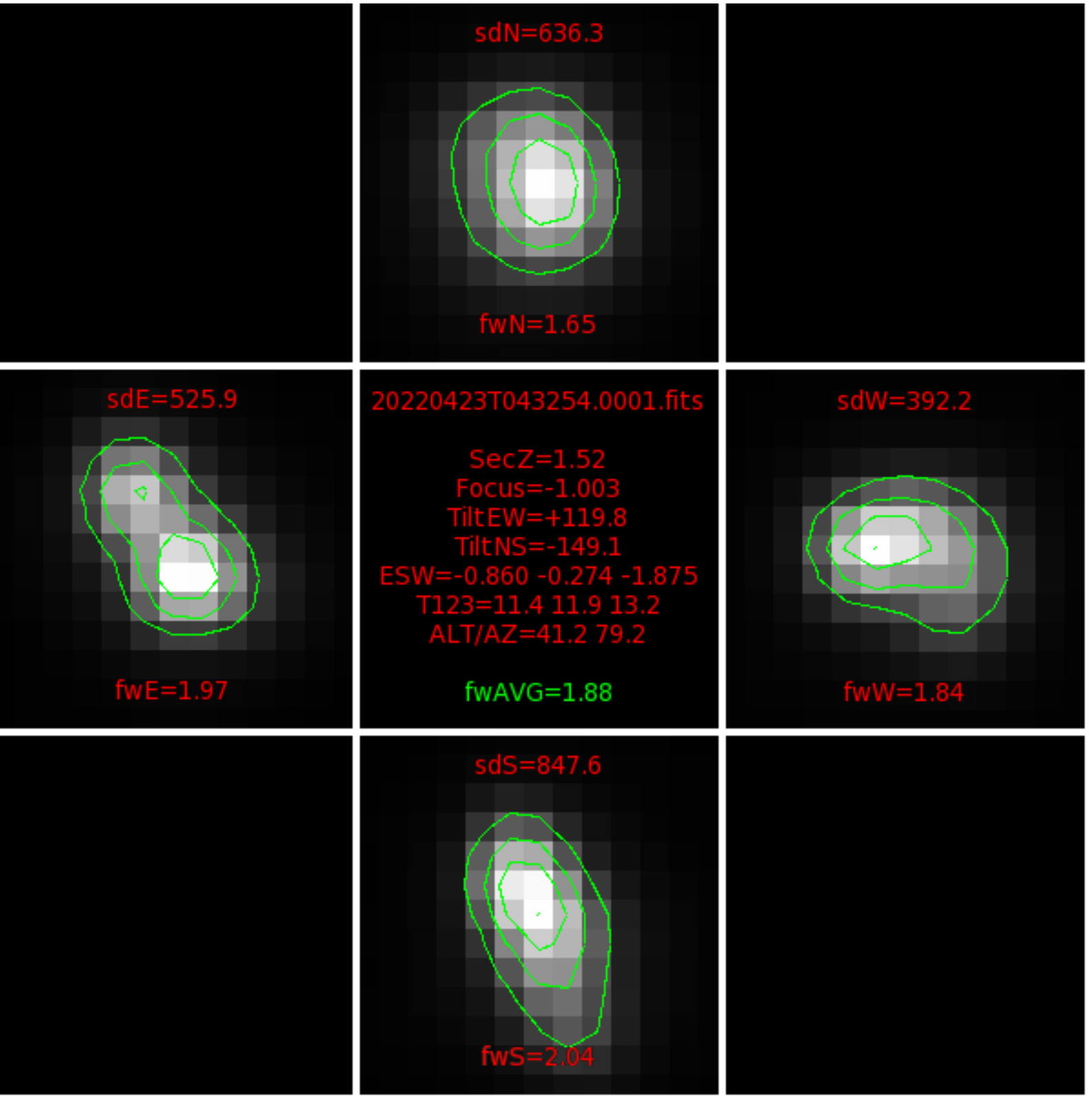
sdN=636.3
fwN=1.65
sdE=525.9
fwE=1.97
20220423T043254.0001.fits
SecZ=1.52
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.4 11.9 13.2
ALT/AZ=41.2 79.2
fwAVG=1.88
sdW=392.2
fwW=1.84
sdS=847.6
fwS=2.04
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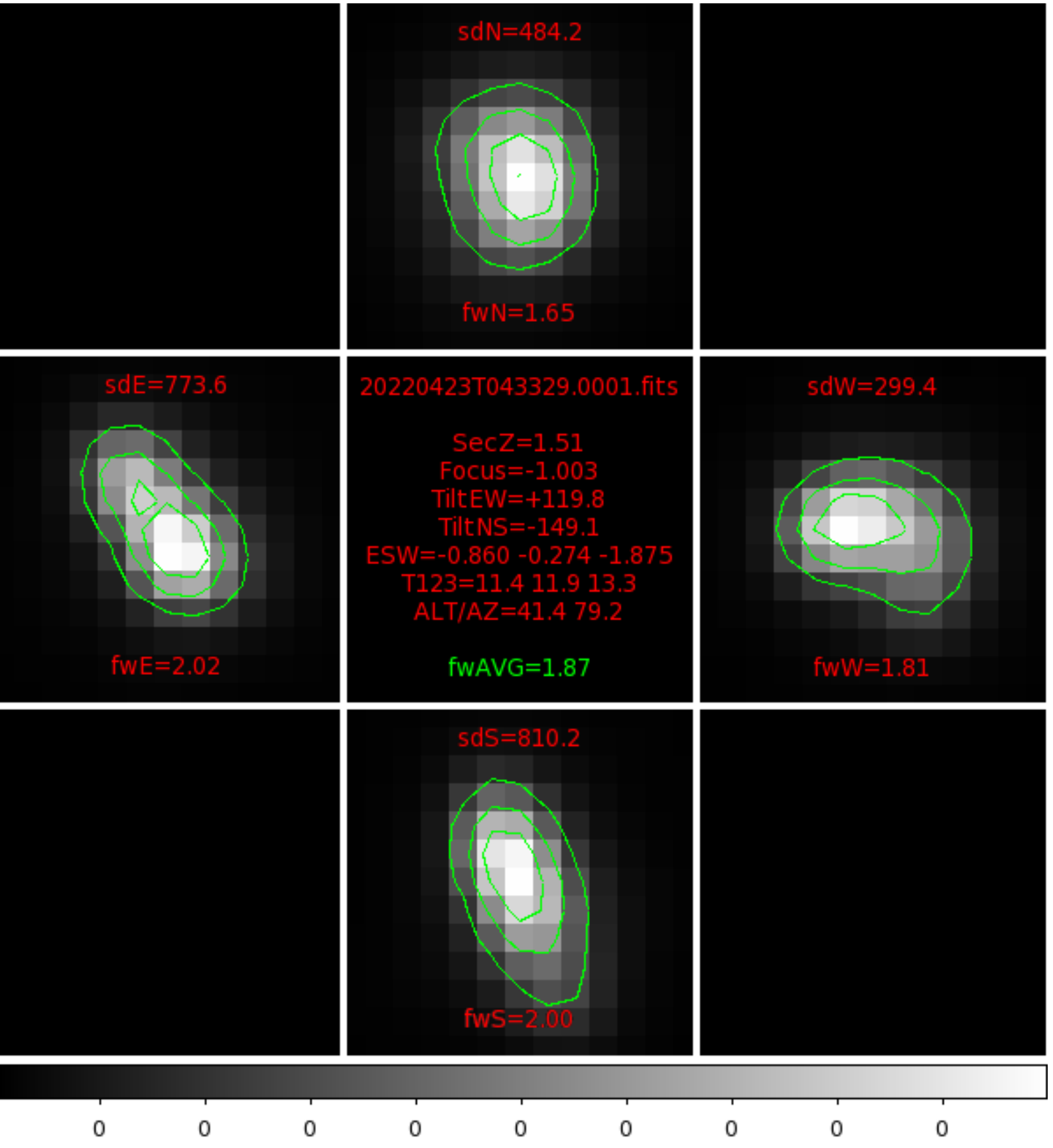
sdN=484.2
fwN=1.65
sdE=773.6
fwE=2.02
20220423T043329.0001.fits
SecZ=1.51
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.4 11.9 13.3
ALT/AZ=41.4 79.2
fwAVG=1.87
sdW=299.4
fwW=1.81
sdS=810.2
fwS=2.00
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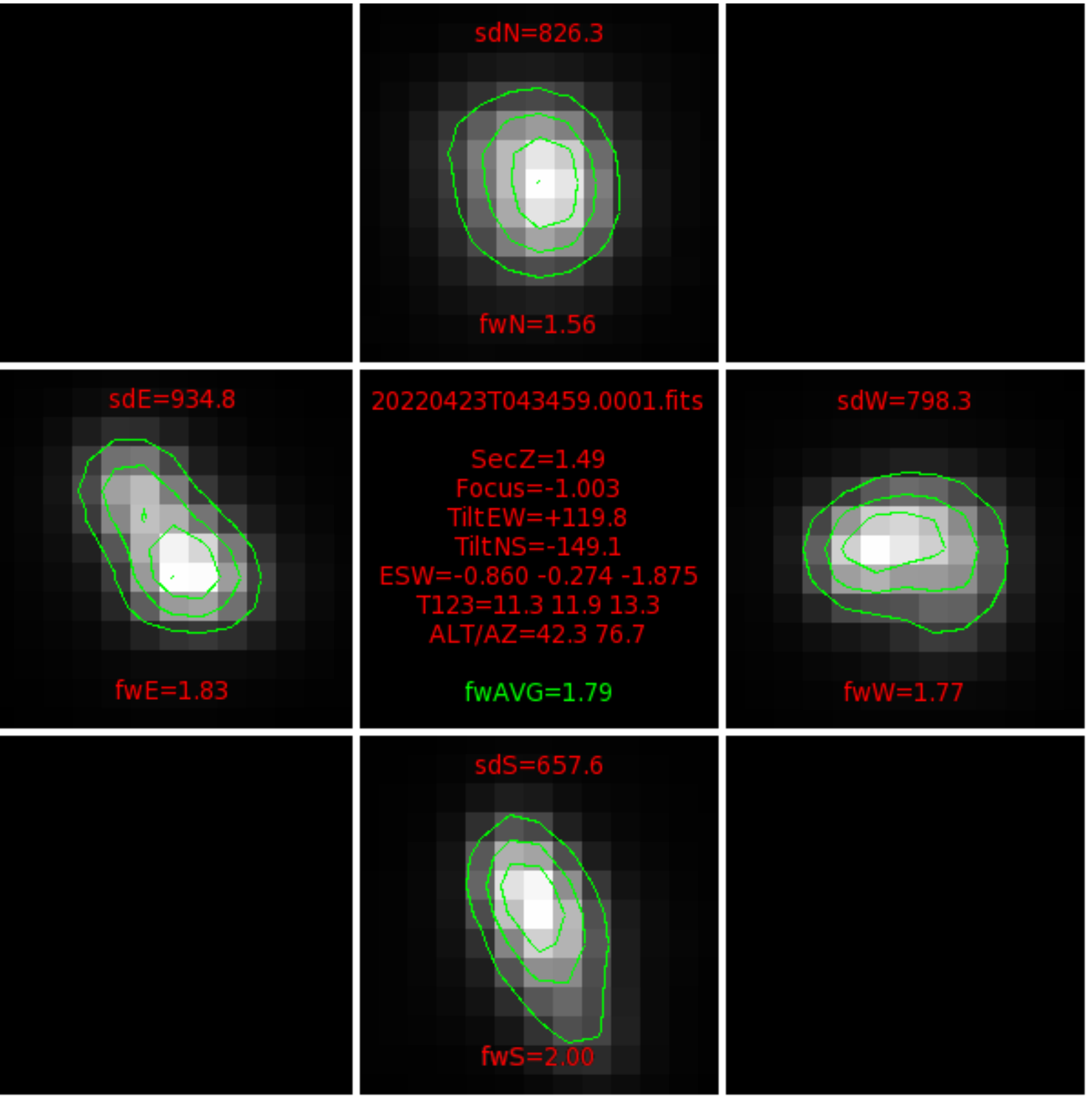
sdN=826.3
fwN=1.56
sdE=934.8
fwE=1.83
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SecZ=1.49
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.3 11.9 13.3
ALT/AZ=42.3 76.7
fwAVG=1.79
sdW=798.3
fwW=1.77
sdS=657.6
fwS=2.00
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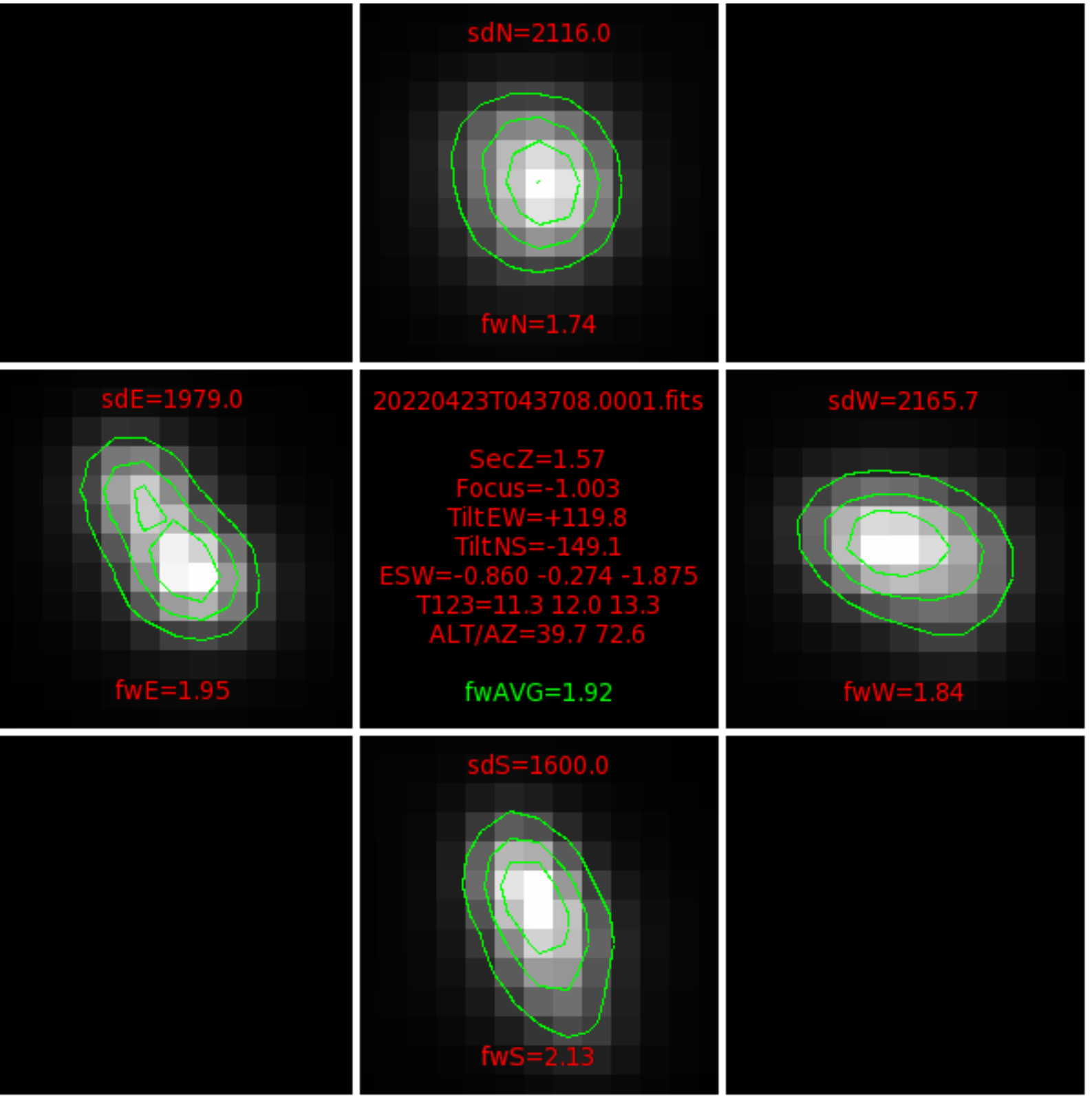
sdN=2116.0
fwN=1.74
sdE=1979.0
fwE=1.95
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SecZ=1.57
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.3 12.0 13.3
ALT/AZ=39.7 72.6
fwAVG=1.92
sdW=2165.7
fwW=1.84
sdS=1600.0
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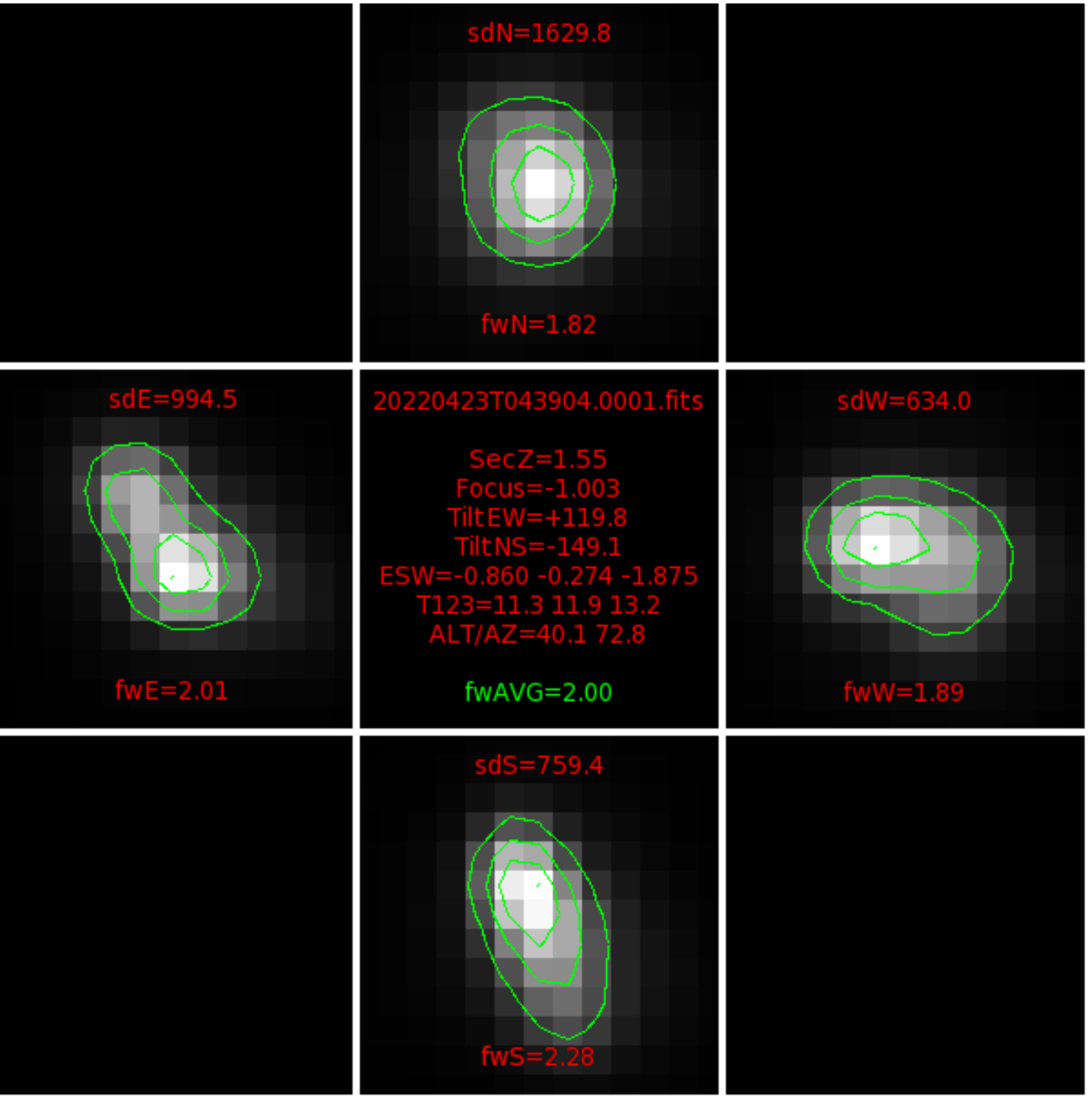
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fwN=1.82
sdE=994.5
fwE=2.01
20220423T043904.0001.fits
SecZ=1.55
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.3 11.9 13.2
ALT/AZ=40.1 72.8
fwAVG=2.00
sdW=634.0
fwW=1.89
sdS=759.4
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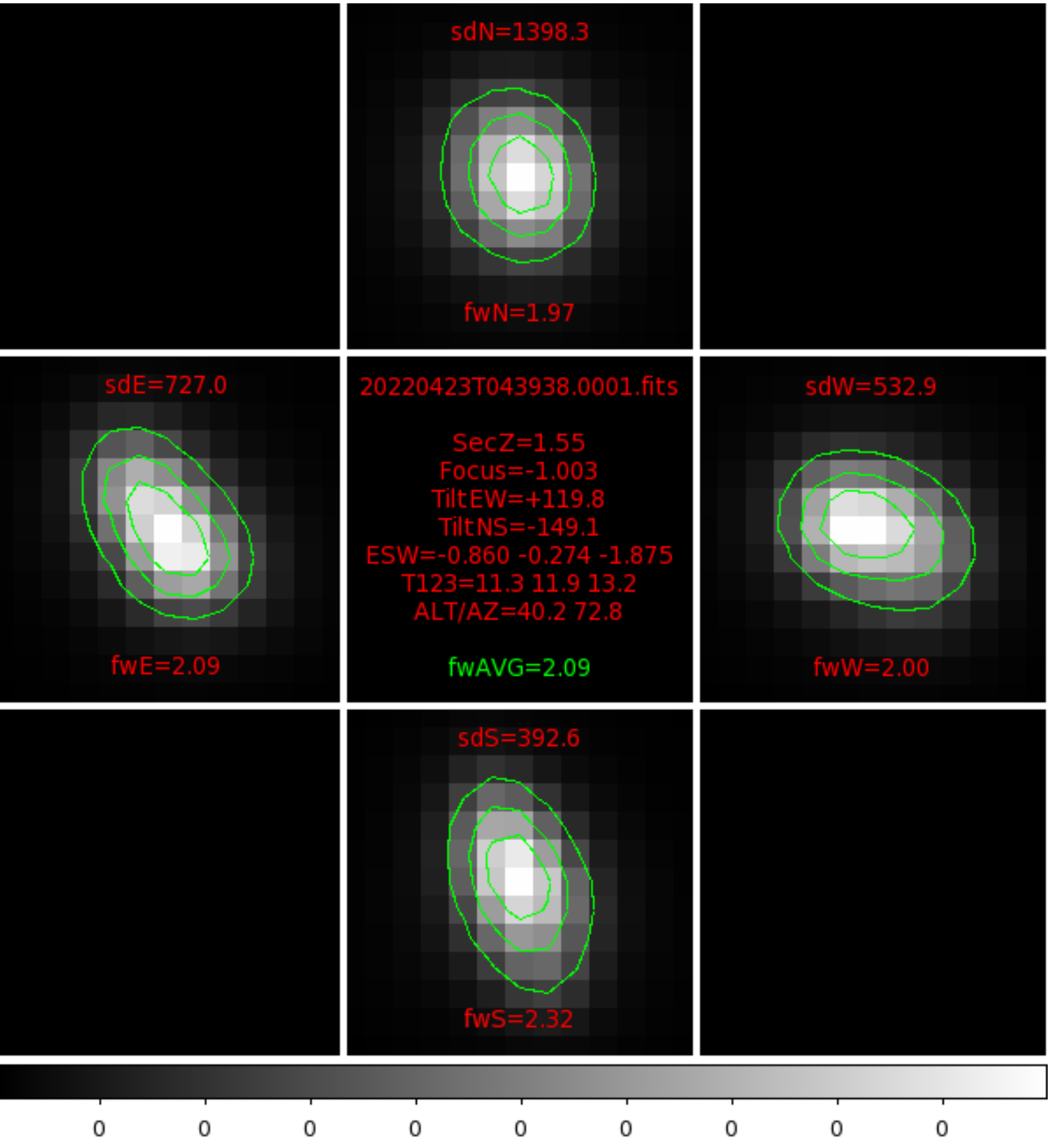
sdN=1398.3
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sdE=727.0
fwE=2.09
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SecZ=1.55
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.3 11.9 13.2
ALT/AZ=40.2 72.8
fwAVG=2.09
sdW=532.9
fwW=2.00
sdS=392.6
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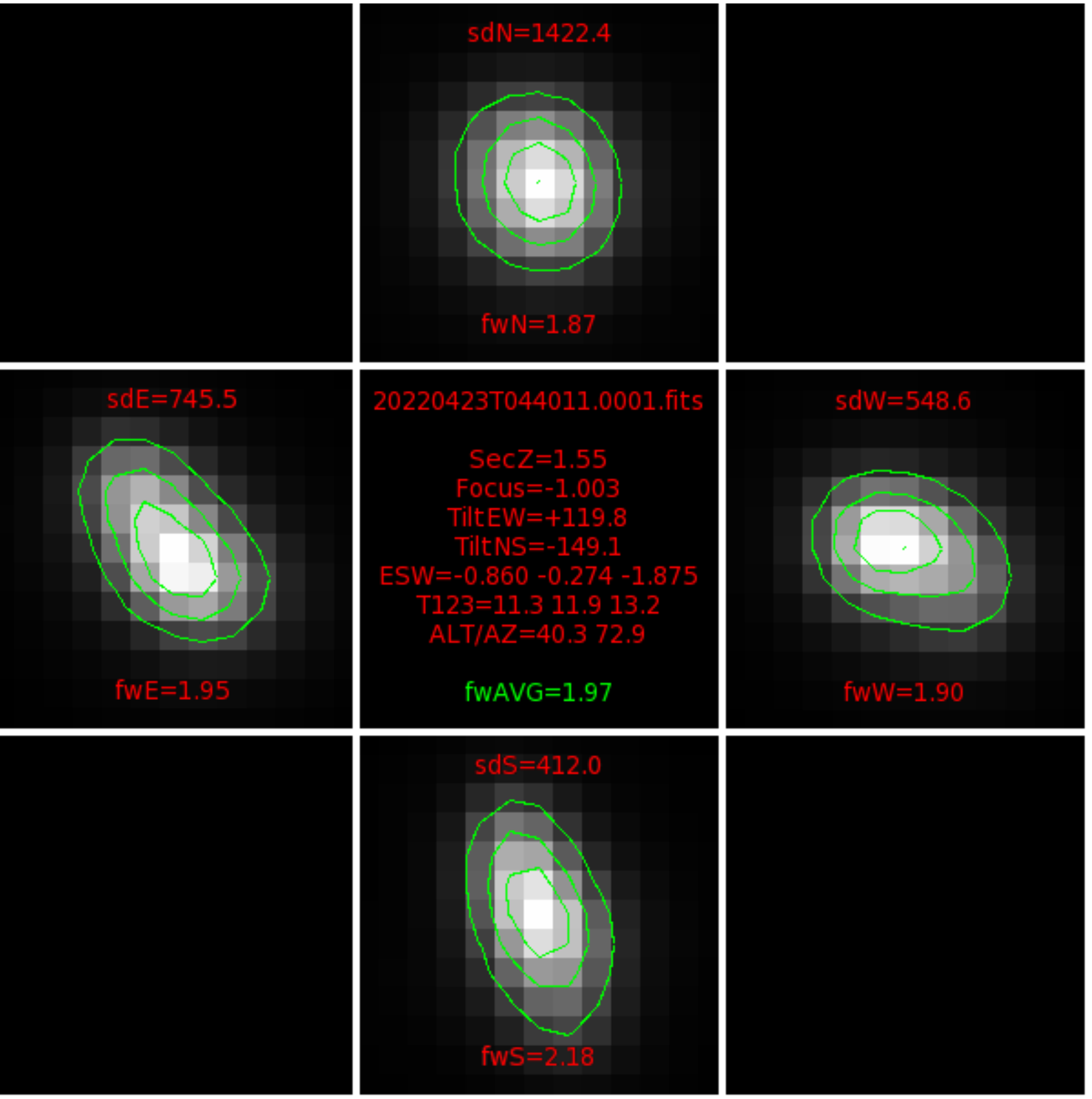
sdN=1422.4
fwN=1.87
sdE=745.5
fwE=1.95
20220423T044011.0001.fits
SecZ=1.55
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.3 11.9 13.2
ALT/AZ=40.3 72.9
fwAVG=1.97
sdW=548.6
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sdS=412.0
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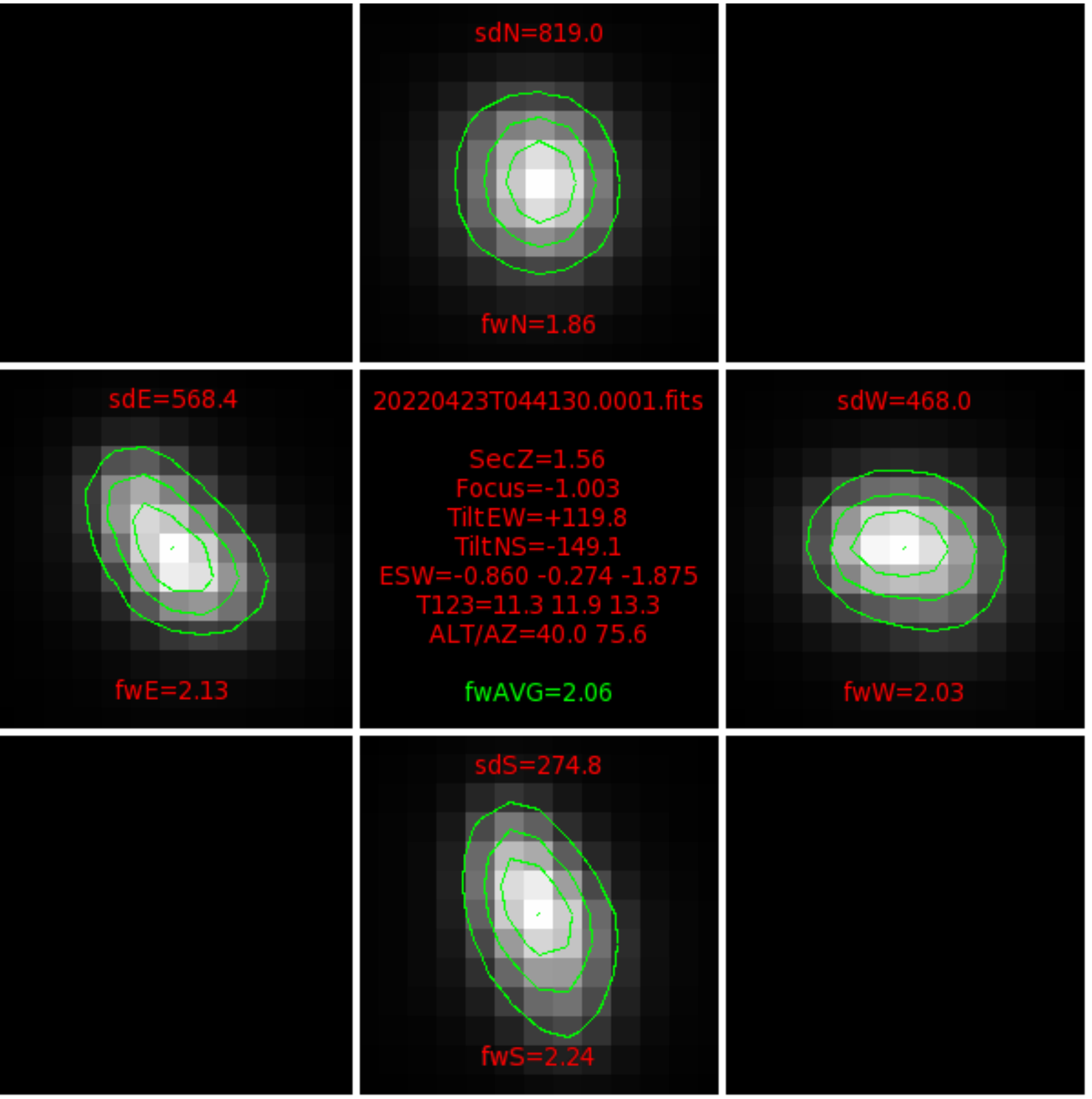
sdN=819.0
fwN=1.86
sdE=568.4
fwE=2.13
20220423T044130.0001.fits
SecZ=1.56
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.3 11.9 13.3
ALT/AZ=40.0 75.6
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sdW=468.0
fwW=2.03
sdS=274.8
fwS=2.24
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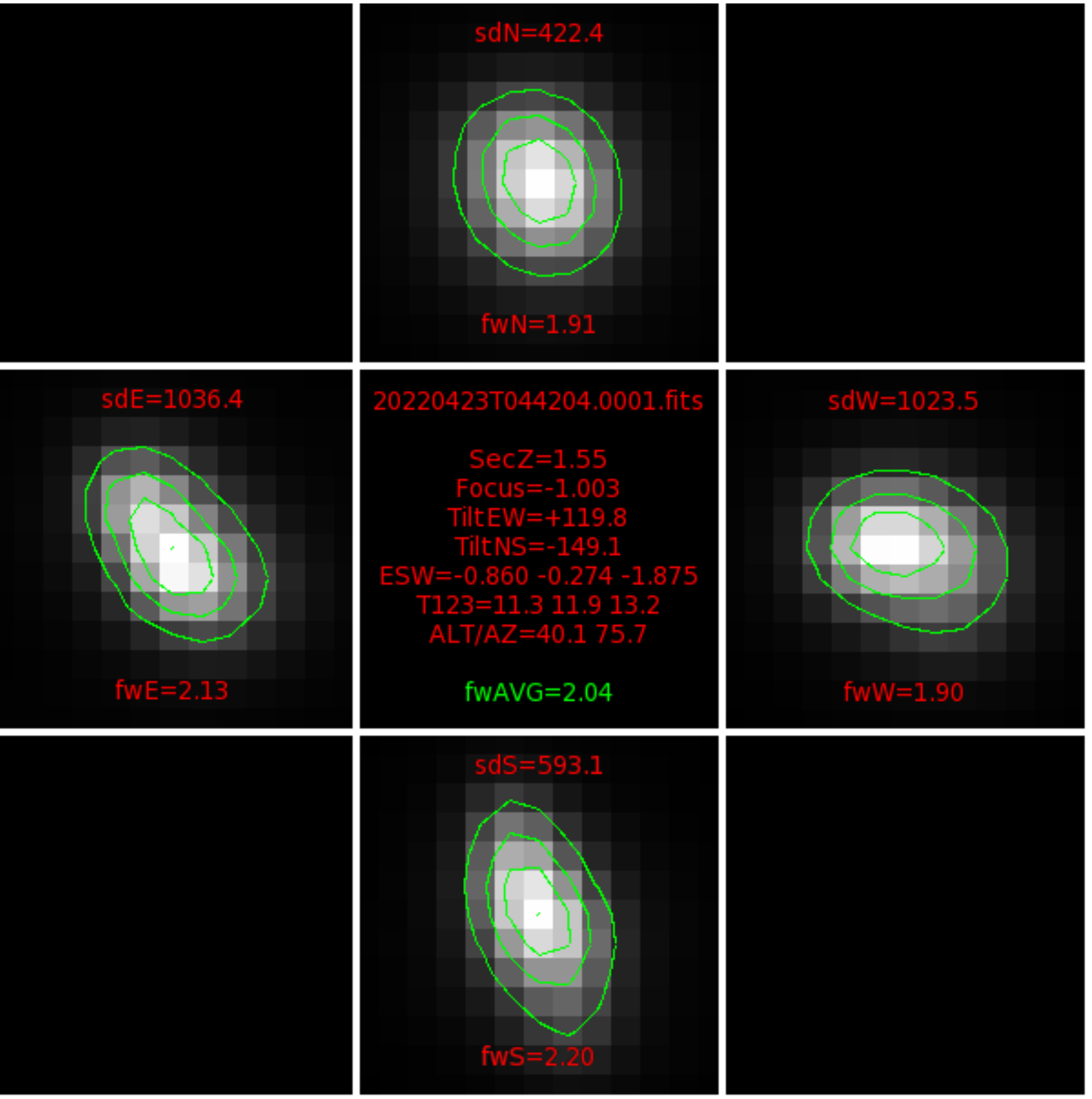
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sdE=1036.4
fwE=2.13
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SecZ=1.55
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.3 11.9 13.2
ALT/AZ=40.1 75.7
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sdW=1023.5
fwW=1.90
sdS=593.1
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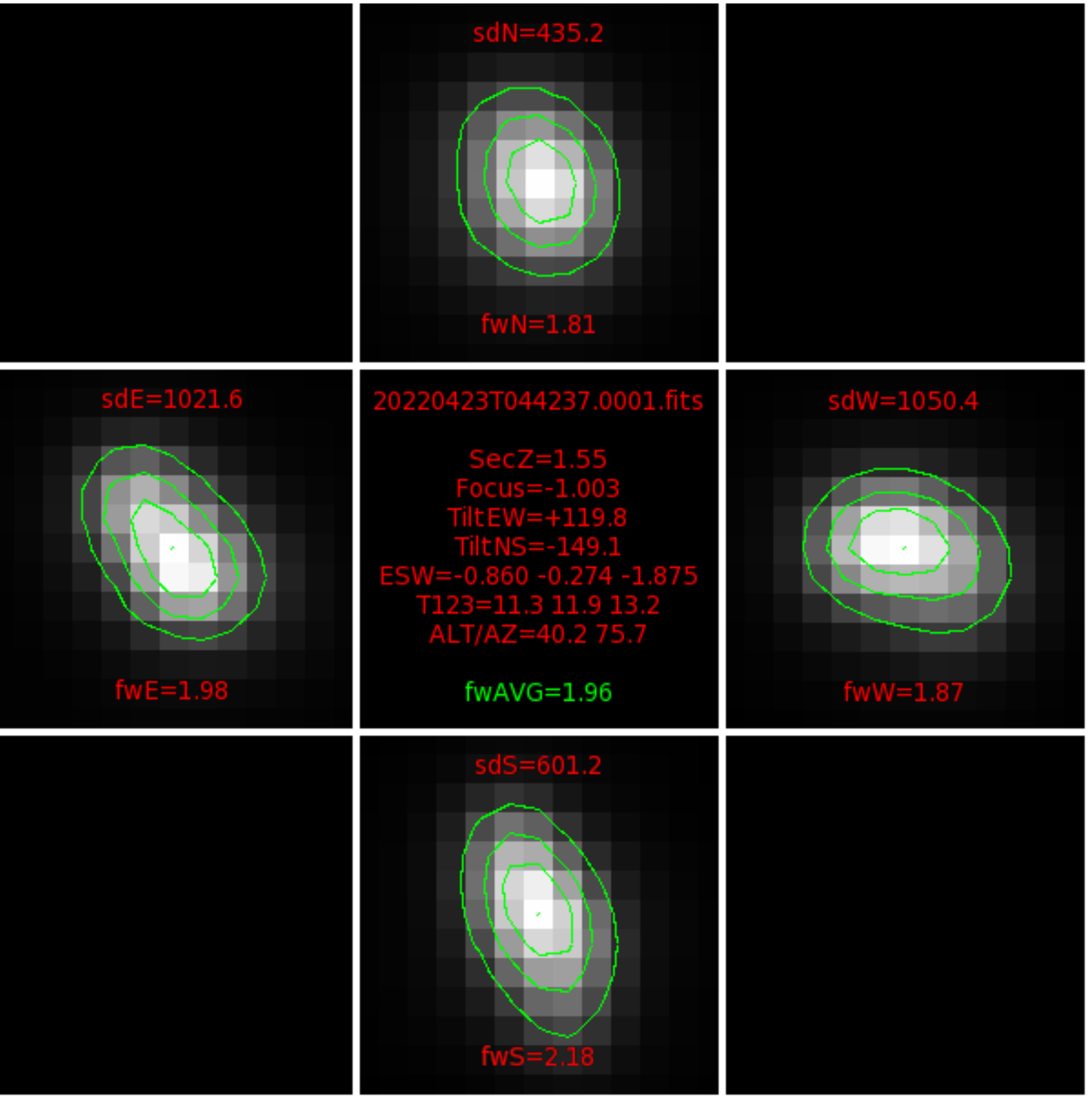
sdN=435.2
fwN=1.81
sdE=1021.6
fwE=1.98
20220423T044237.0001.fits
SecZ=1.55
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.3 11.9 13.2
ALT/AZ=40.2 75.7
fwAVG=1.96
sdW=1050.4
fwW=1.87
sdS=601.2
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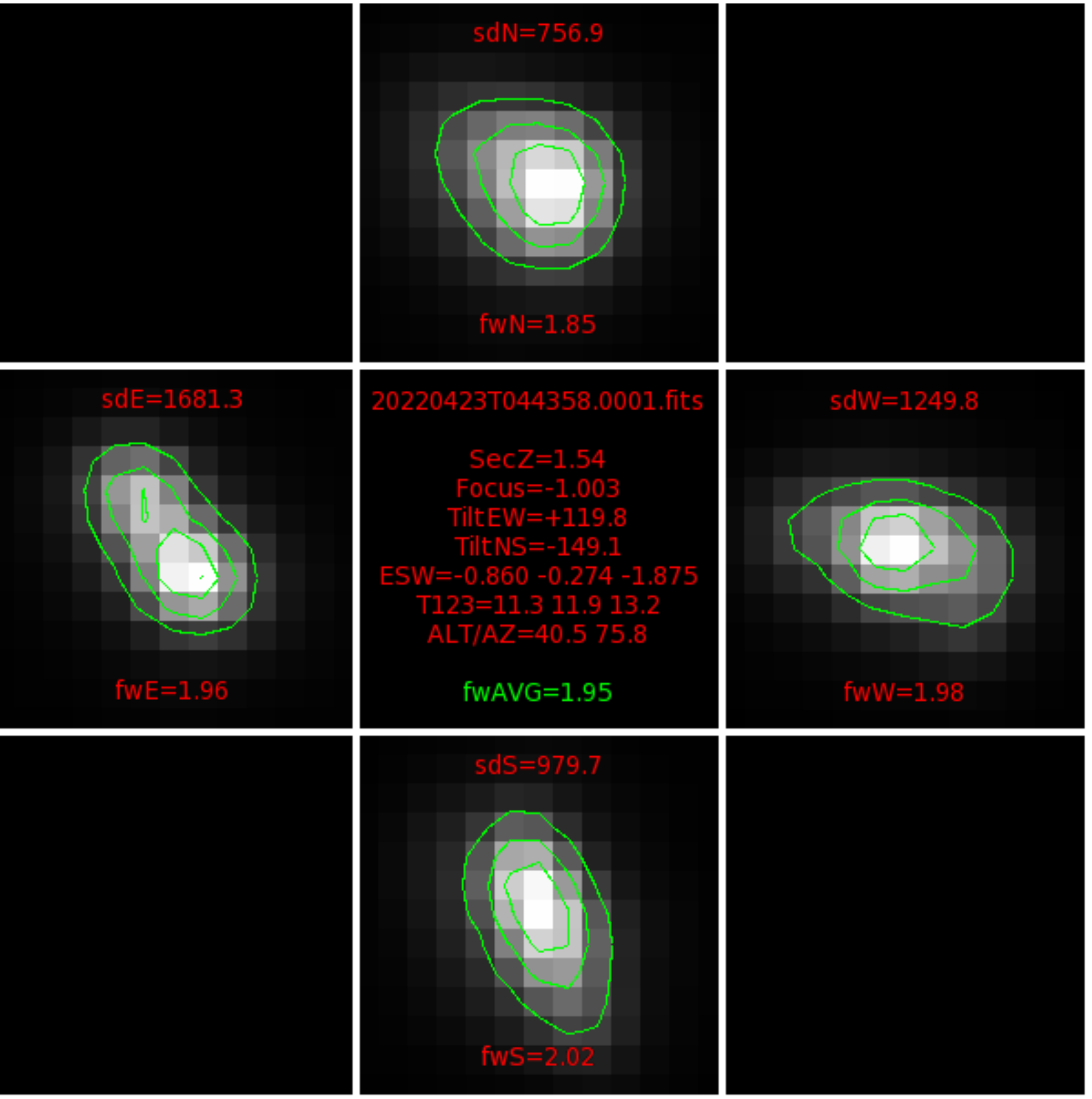
sdN=756.9
fwN=1.85
sdE=1681.3
fwE=1.96
20220423T044358.0001.fits
SecZ=1.54
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.3 11.9 13.2
ALT/AZ=40.5 75.8
fwAVG=1.95
sdW=1249.8
fwW=1.98
sdS=979.7
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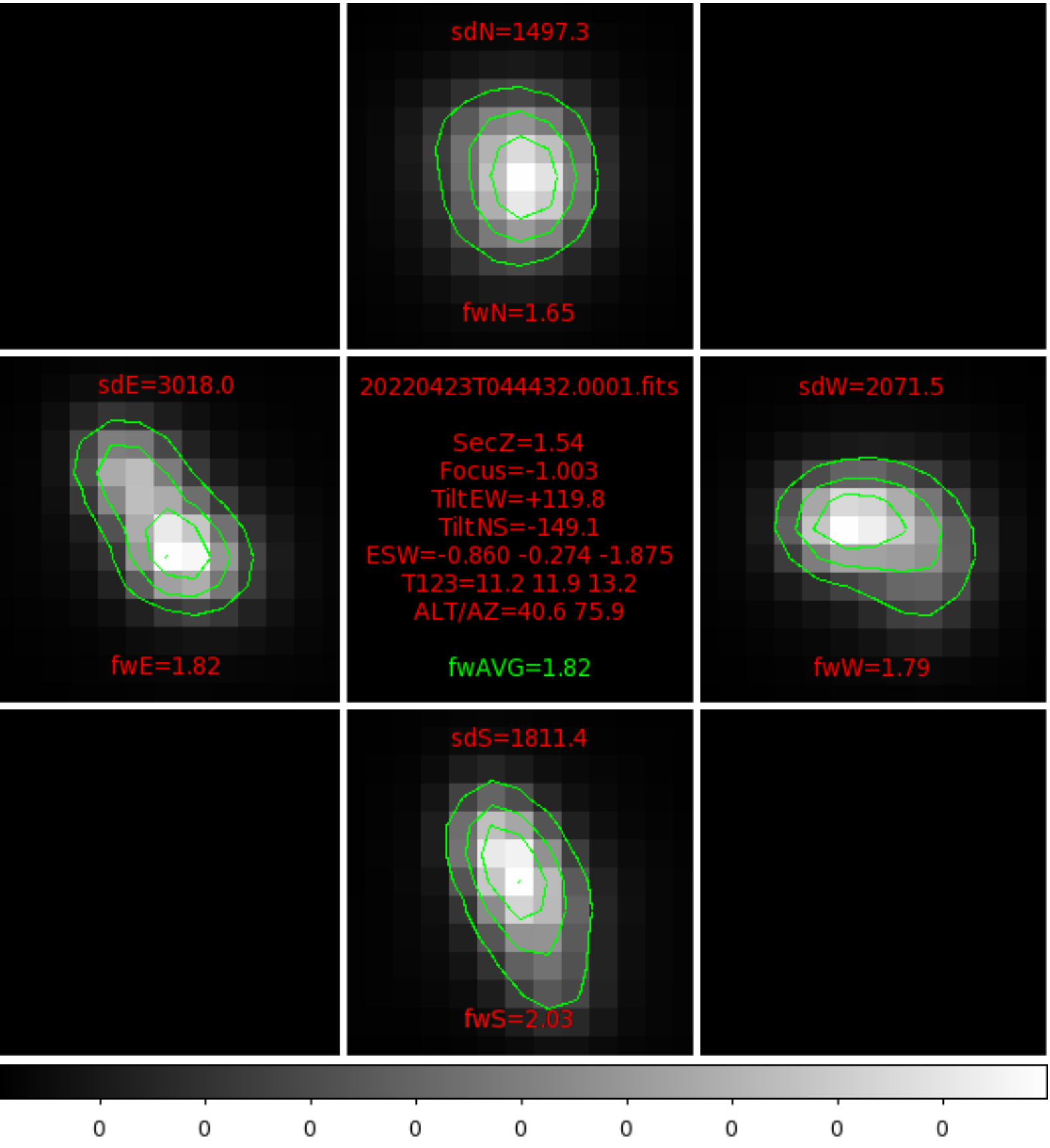
sdN=1497.3
fwN=1.65
sdE=3018.0
fwE=1.82
20220423T044432.0001.fits
SecZ=1.54
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.2 11.9 13.2
ALT/AZ=40.6 75.9
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sdW=2071.5
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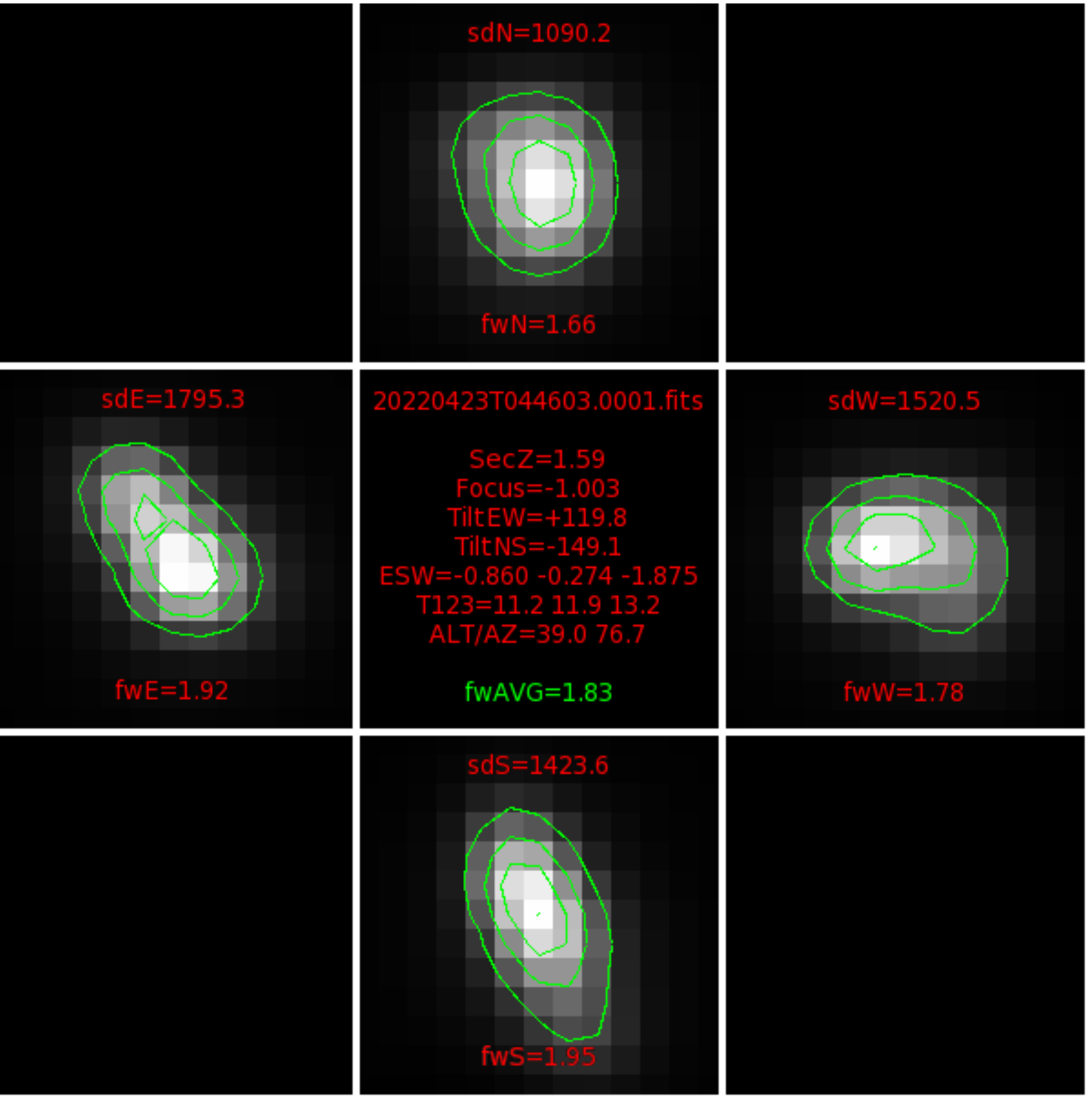
sdN=1090.2
fwN=1.66
sdE=1795.3
fwE=1.92
20220423T044603.0001.fits
SecZ=1.59
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.2 11.9 13.2
ALT/AZ=39.0 76.7
fwAVG=1.83
sdW=1520.5
fwW=1.78
sdS=1423.6
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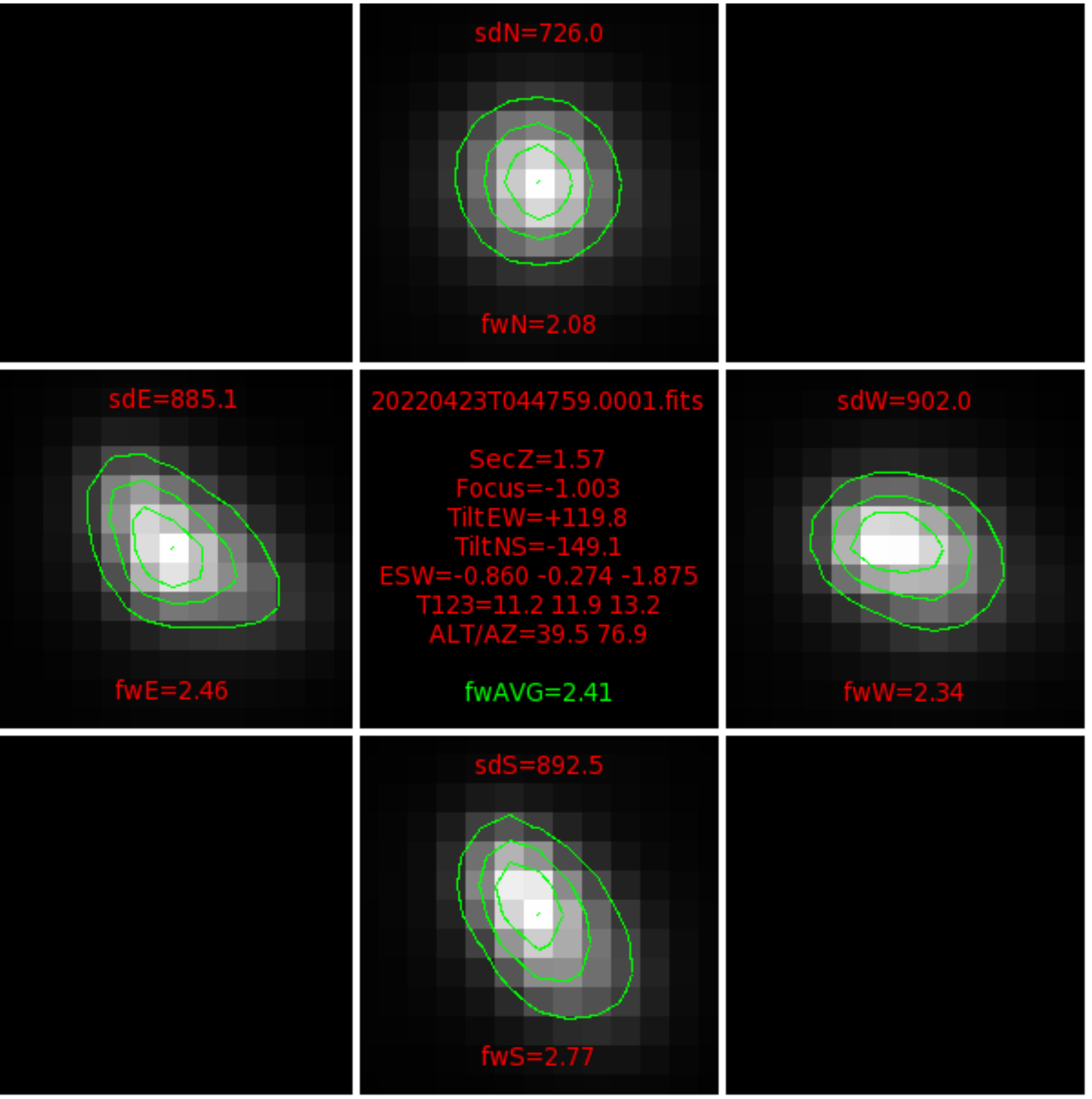
sdN=726.0
fwN=2.08
sdE=885.1
fwE=2.46
20220423T044759.0001.fits
SecZ=1.57
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.2 11.9 13.2
ALT/AZ=39.5 76.9
fwAVG=2.41
sdW=902.0
fwW=2.34
sdS=892.5
fwS=2.77
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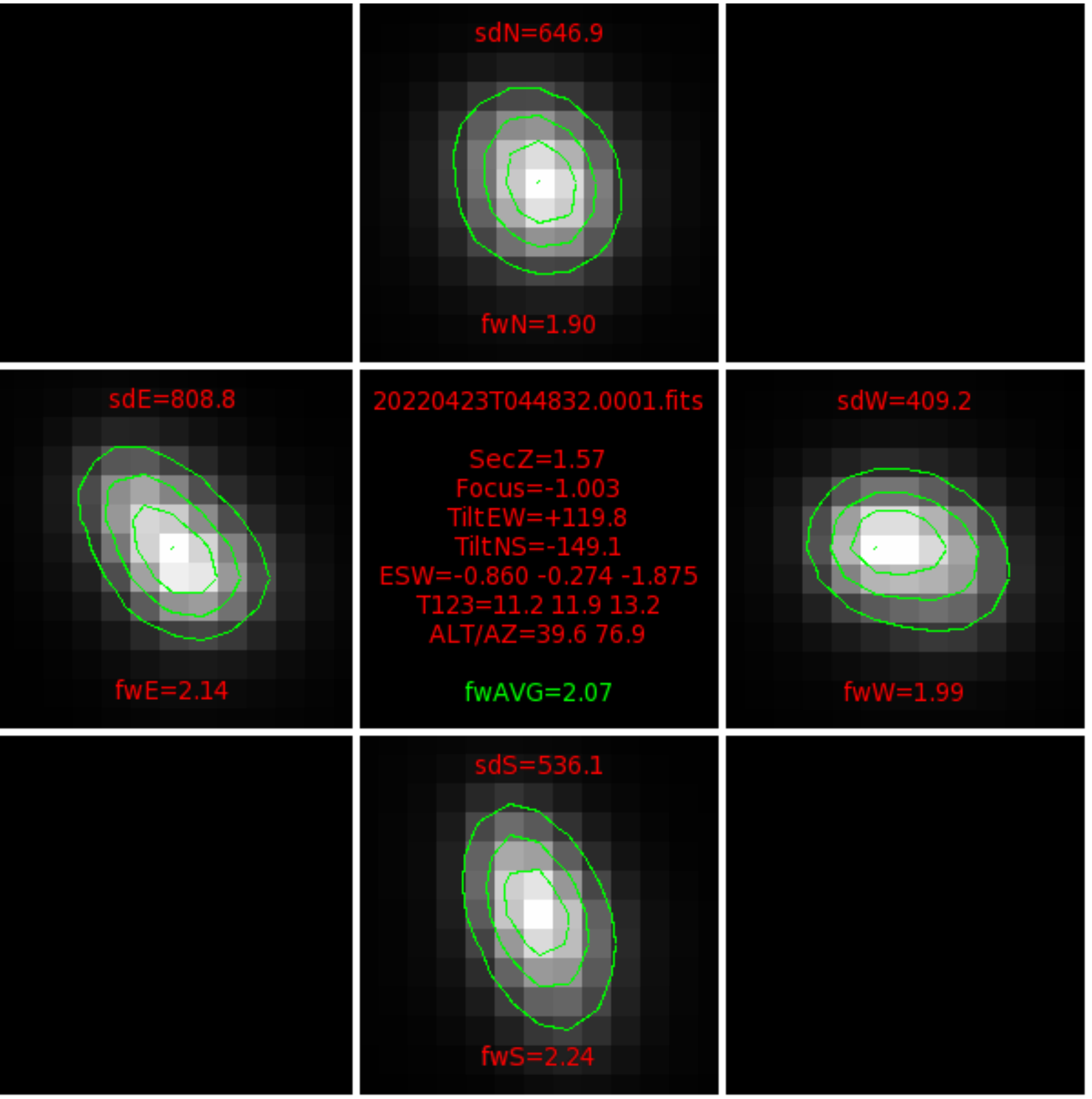
sdN=646.9
fwN=1.90
sdE=808.8
fwE=2.14
20220423T044832.0001.fits
SecZ=1.57
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.2 11.9 13.2
ALT/AZ=39.6 76.9
fwAVG=2.07
sdW=409.2
fwW=1.99
sdS=536.1
fwS=2.24
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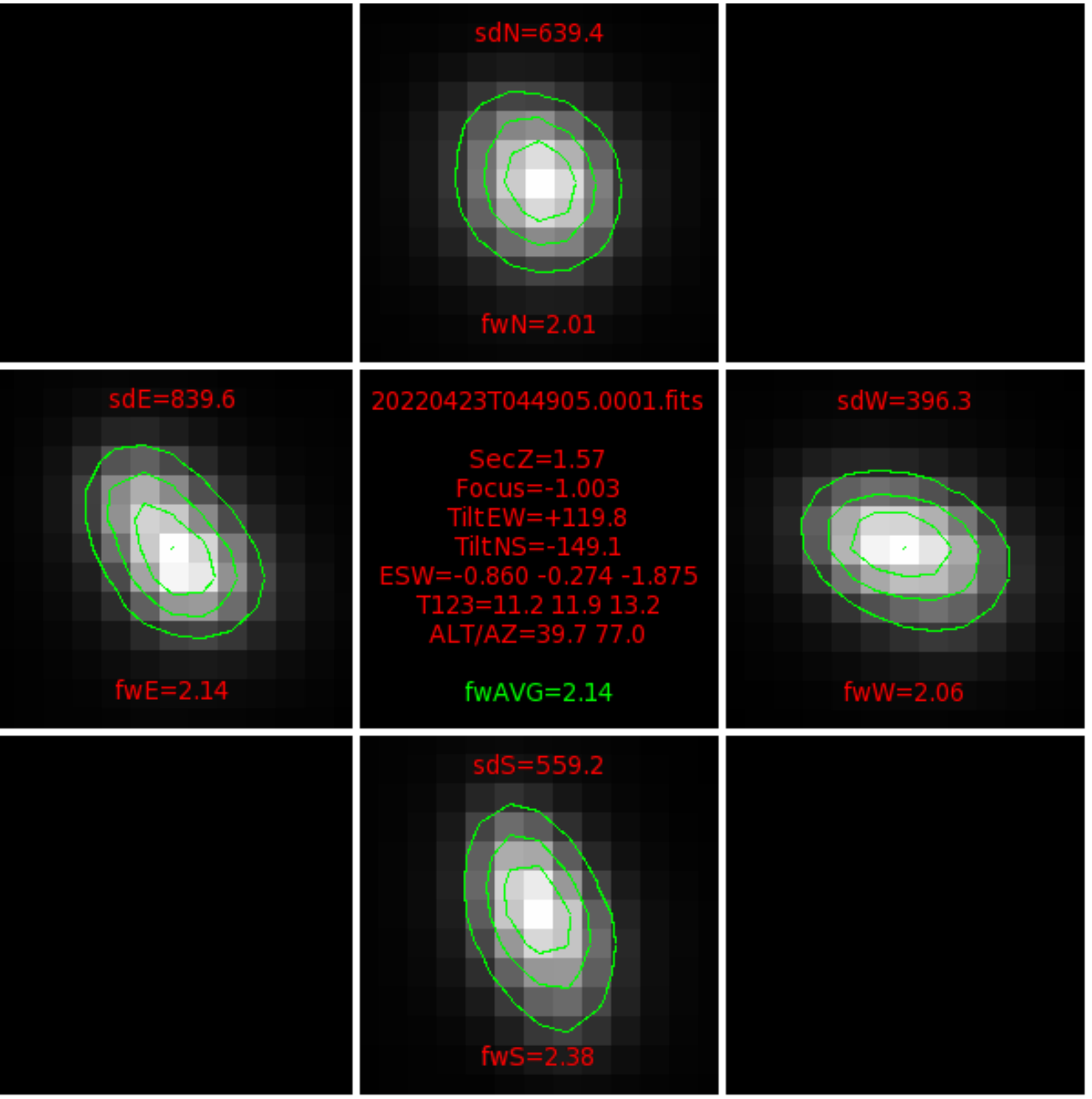
sdN=639.4
fwN=2.01
sdE=839.6
fwE=2.14
20220423T044905.0001.fits
SecZ=1.57
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.2 11.9 13.2
ALT/AZ=39.7 77.0
fwAVG=2.14
sdW=396.3
fwW=2.06
sdS=559.2
fwS=2.38
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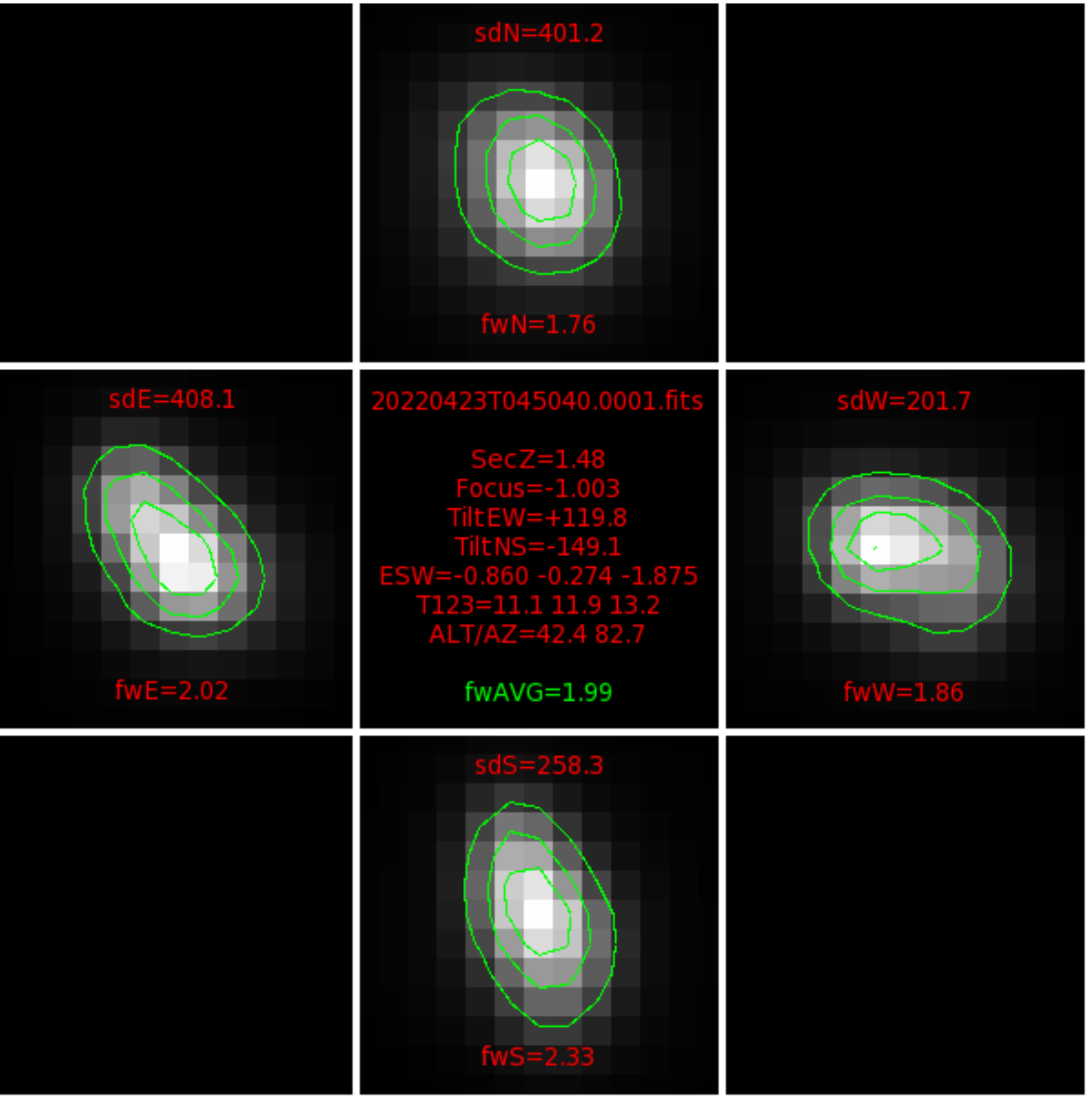
sdN=401.2
fwN=1.76
sdE=408.1
fwE=2.02
20220423T045040.0001.fits
SecZ=1.48
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.1 11.9 13.2
ALT/AZ=42.4 82.7
fwAVG=1.99
sdW=201.7
fwW=1.86
sdS=258.3
fwS=2.33
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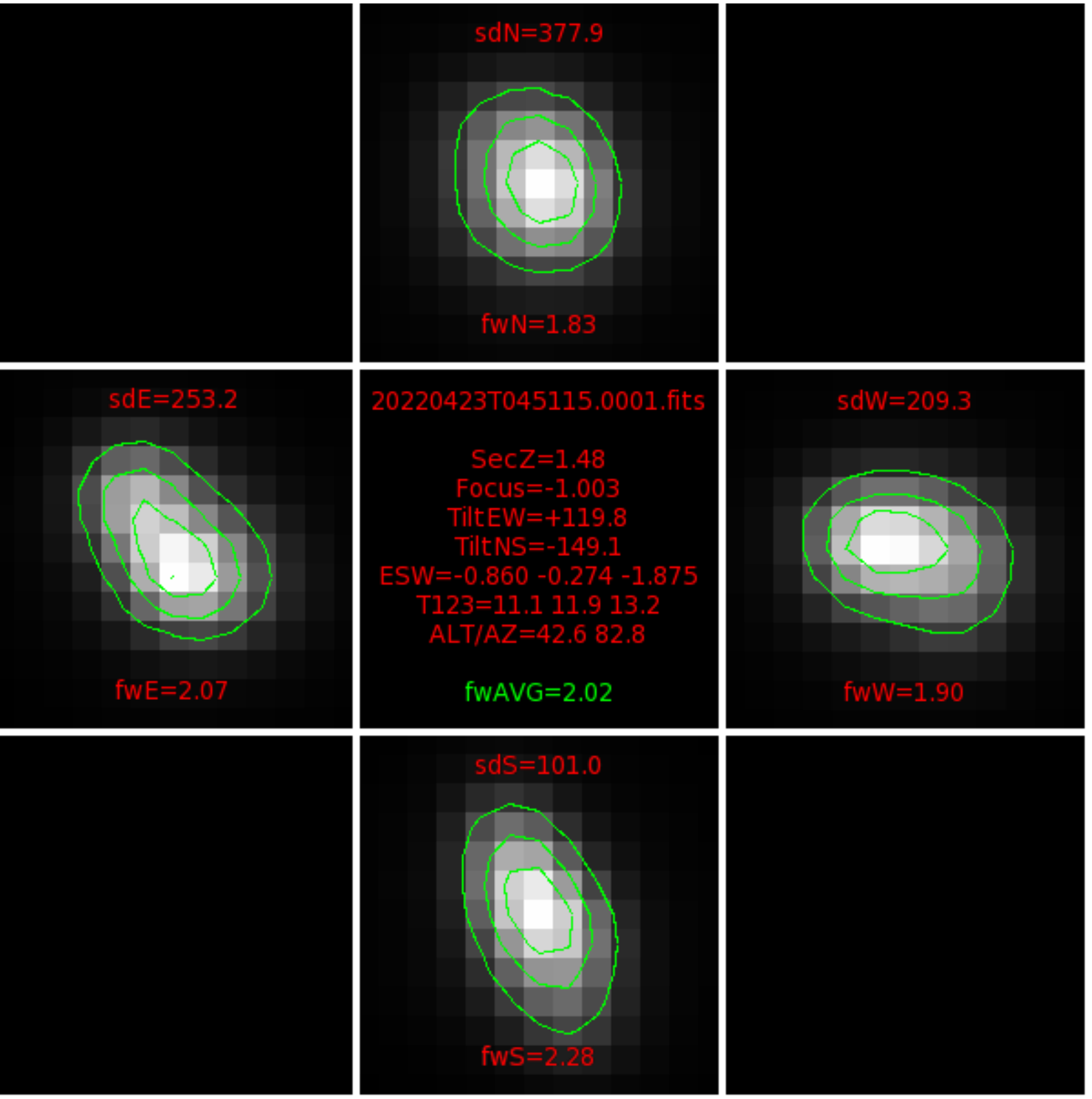
sdN=377.9
fwN=1.83
sdE=253.2
fwE=2.07
20220423T045115.0001.fits
SecZ=1.48
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.1 11.9 13.2
ALT/AZ=42.6 82.8
fwAVG=2.02
sdW=209.3
fwW=1.90
sdS=101.0
fwS=2.28
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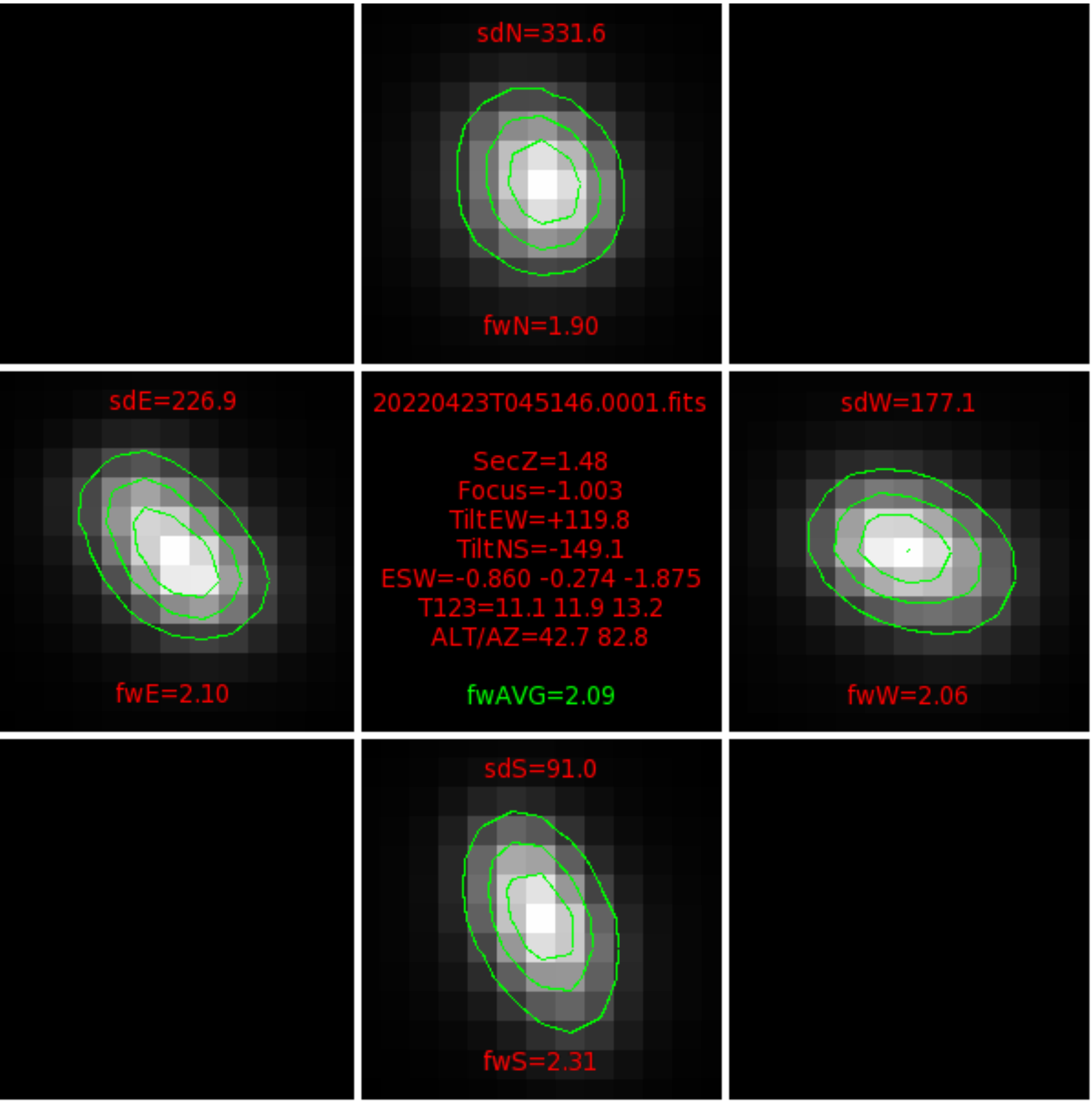
sdN=331.6
fwN=1.90
sdE=226.9
fwE=2.10
20220423T045146.0001.fits
SecZ=1.48
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.1 11.9 13.2
ALT/AZ=42.7 82.8
fwAVG=2.09
sdW=177.1
fwW=2.06
sdS=91.0
fwS=2.31
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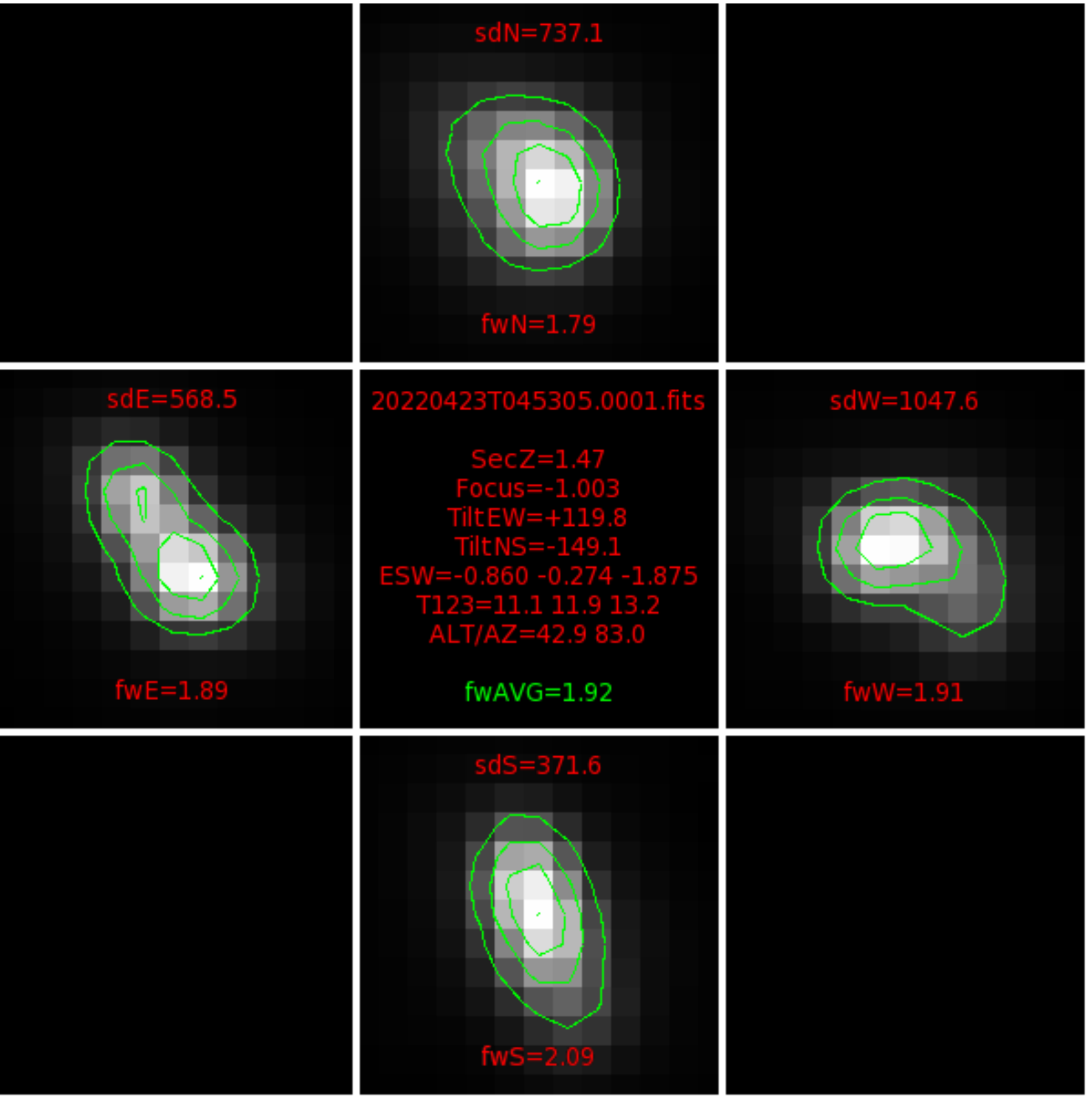
sdN=737.1
fwN=1.79
sdE=568.5
fwE=1.89
20220423T045305.0001.fits
SecZ=1.47
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.1 11.9 13.2
ALT/AZ=42.9 83.0
fwAVG=1.92
sdW=1047.6
fwW=1.91
sdS=371.6
fwS=2.09
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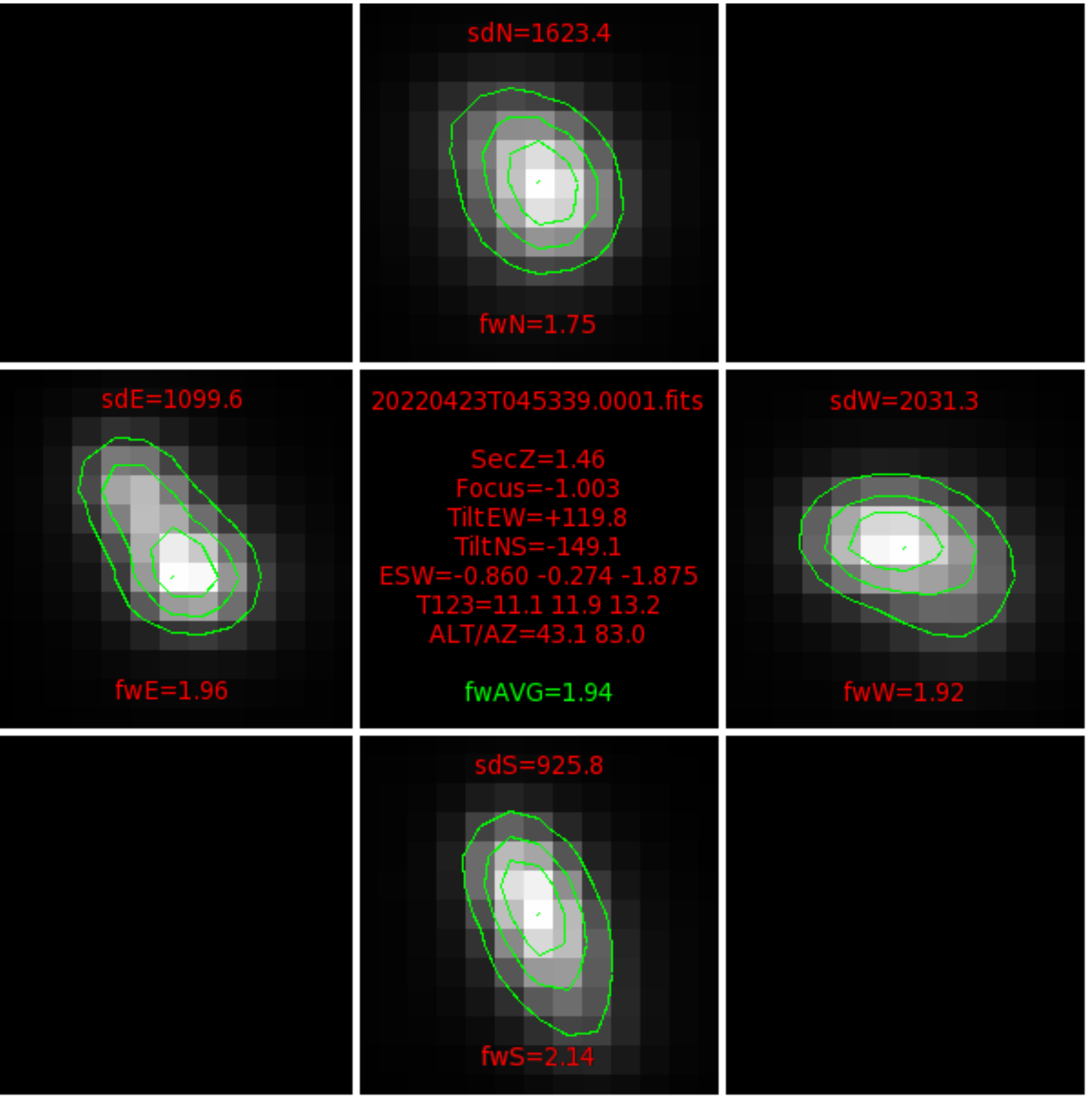
sdN=1623.4
fwN=1.75
sdE=1099.6
fwE=1.96
20220423T045339.0001.fits
SecZ=1.46
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.1 11.9 13.2
ALT/AZ=43.1 83.0
fwAVG=1.94
sdW=2031.3
fwW=1.92
sdS=925.8
fwS=2.14
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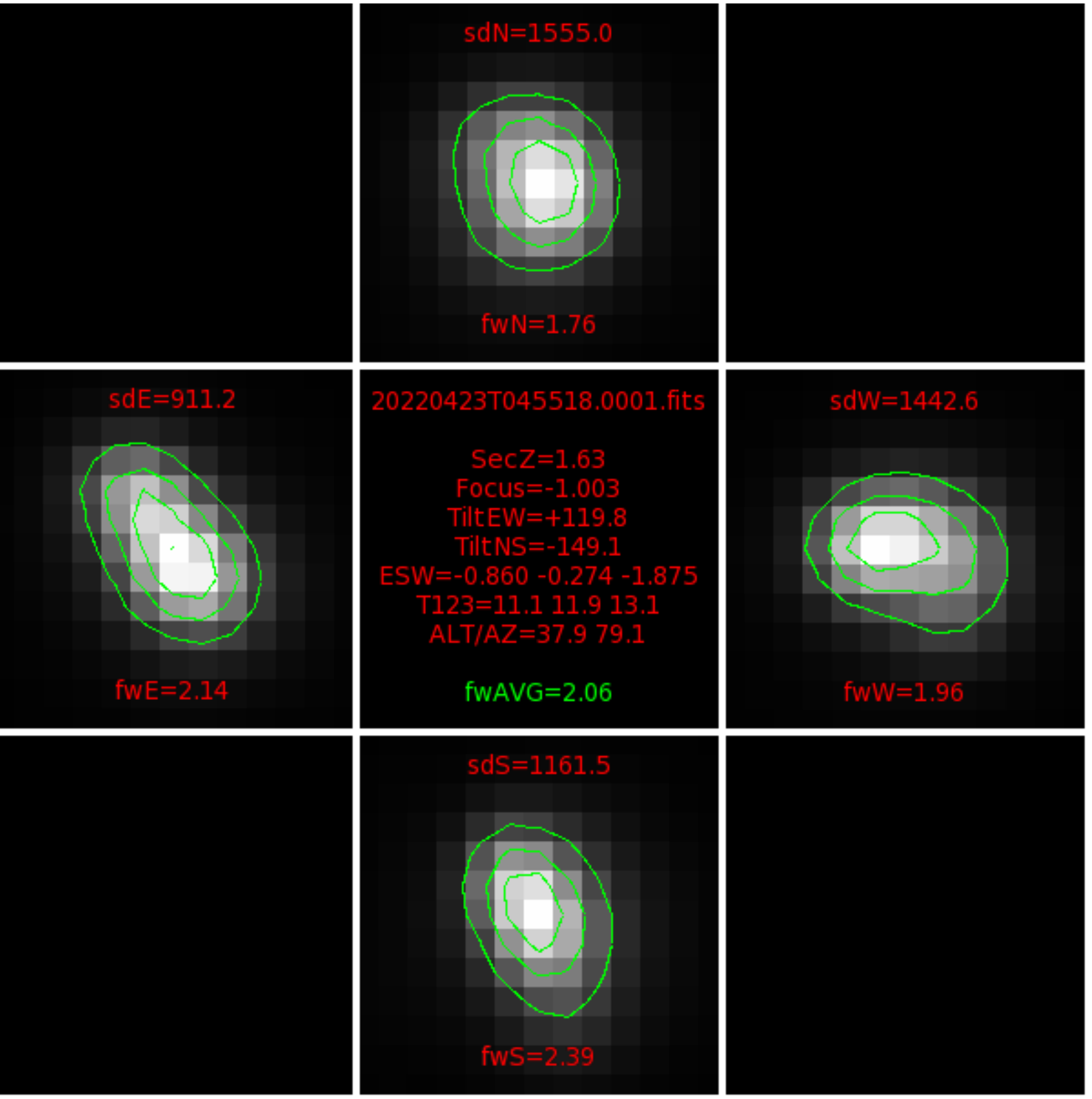
sdN=1555.0
fwN=1.76
sdE=911.2
fwE=2.14
20220423T045518.0001.fits
SecZ=1.63
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.1 11.9 13.1
ALT/AZ=37.9 79.1
fwAVG=2.06
sdW=1442.6
fwW=1.96
sdS=1161.5
fwS=2.39
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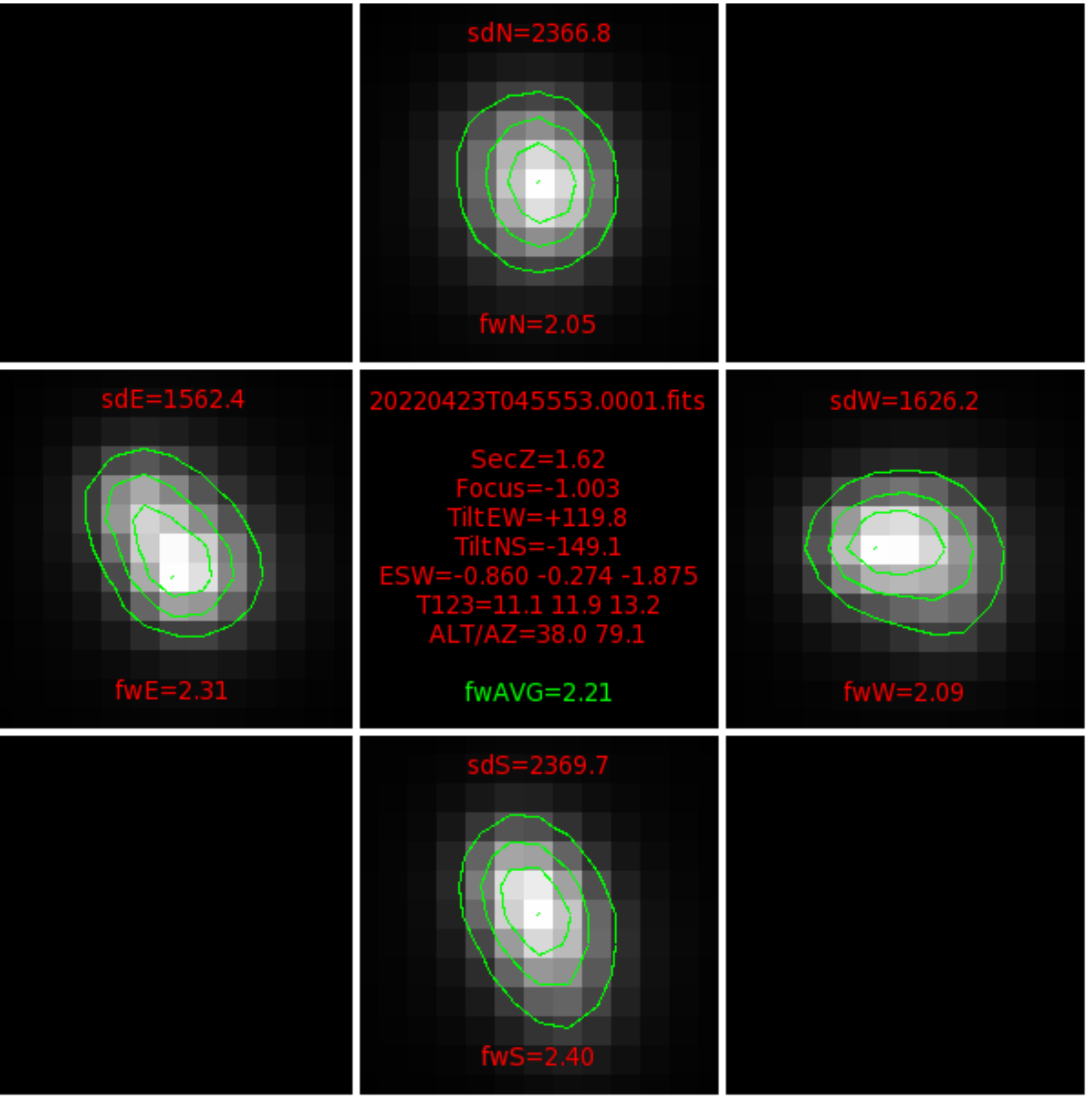
sdN=2366.8
fwN=2.05
sdE=1562.4
fwE=2.31
20220423T045553.0001.fits
SecZ=1.62
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.1 11.9 13.2
ALT/AZ=38.0 79.1
fwAVG=2.21
sdW=1626.2
fwW=2.09
sdS=2369.7
fwS=2.40
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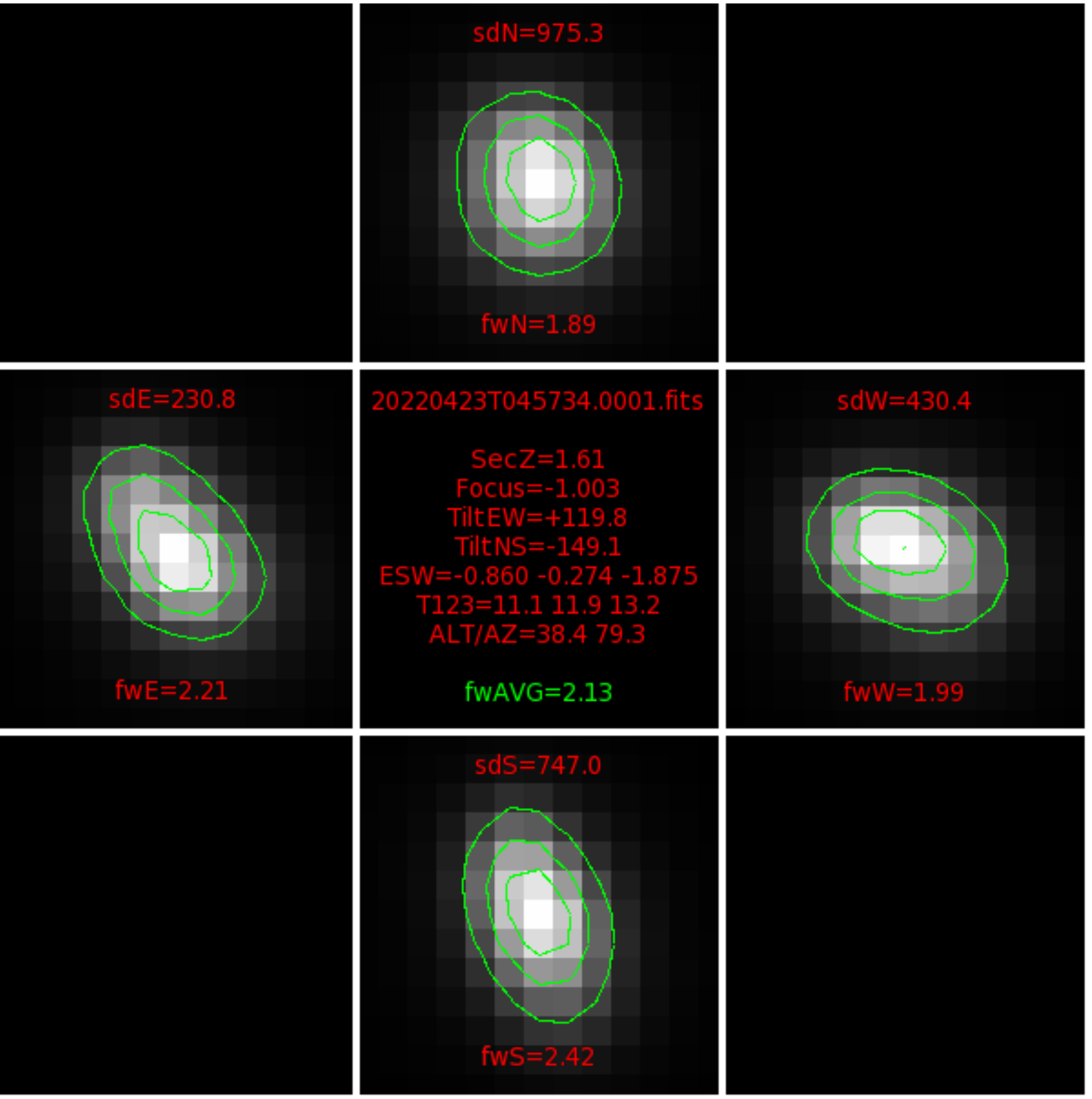
sdN=975.3
fwN=1.89
sdE=230.8
fwE=2.21
20220423T045734.0001.fits
SecZ=1.61
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.1 11.9 13.2
ALT/AZ=38.4 79.3
fwAVG=2.13
sdW=430.4
fwW=1.99
sdS=747.0
fwS=2.42
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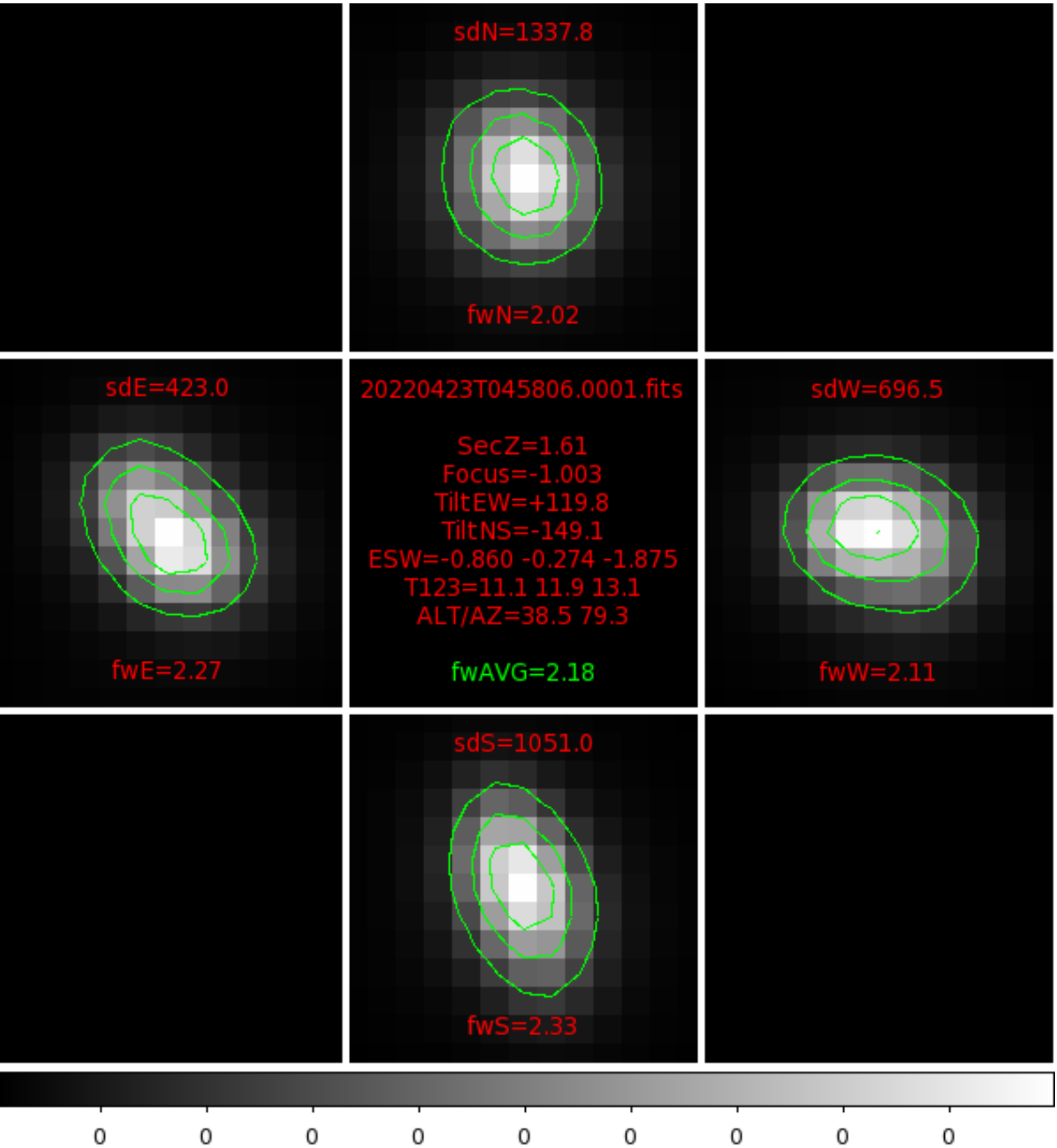
sdN=1337.8
fwN=2.02
sdE=423.0
fwE=2.27
20220423T045806.0001.fits
SecZ=1.61
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.1 11.9 13.1
ALT/AZ=38.5 79.3
fwAVG=2.18
sdW=696.5
fwW=2.11
sdS=1051.0
fwS=2.33
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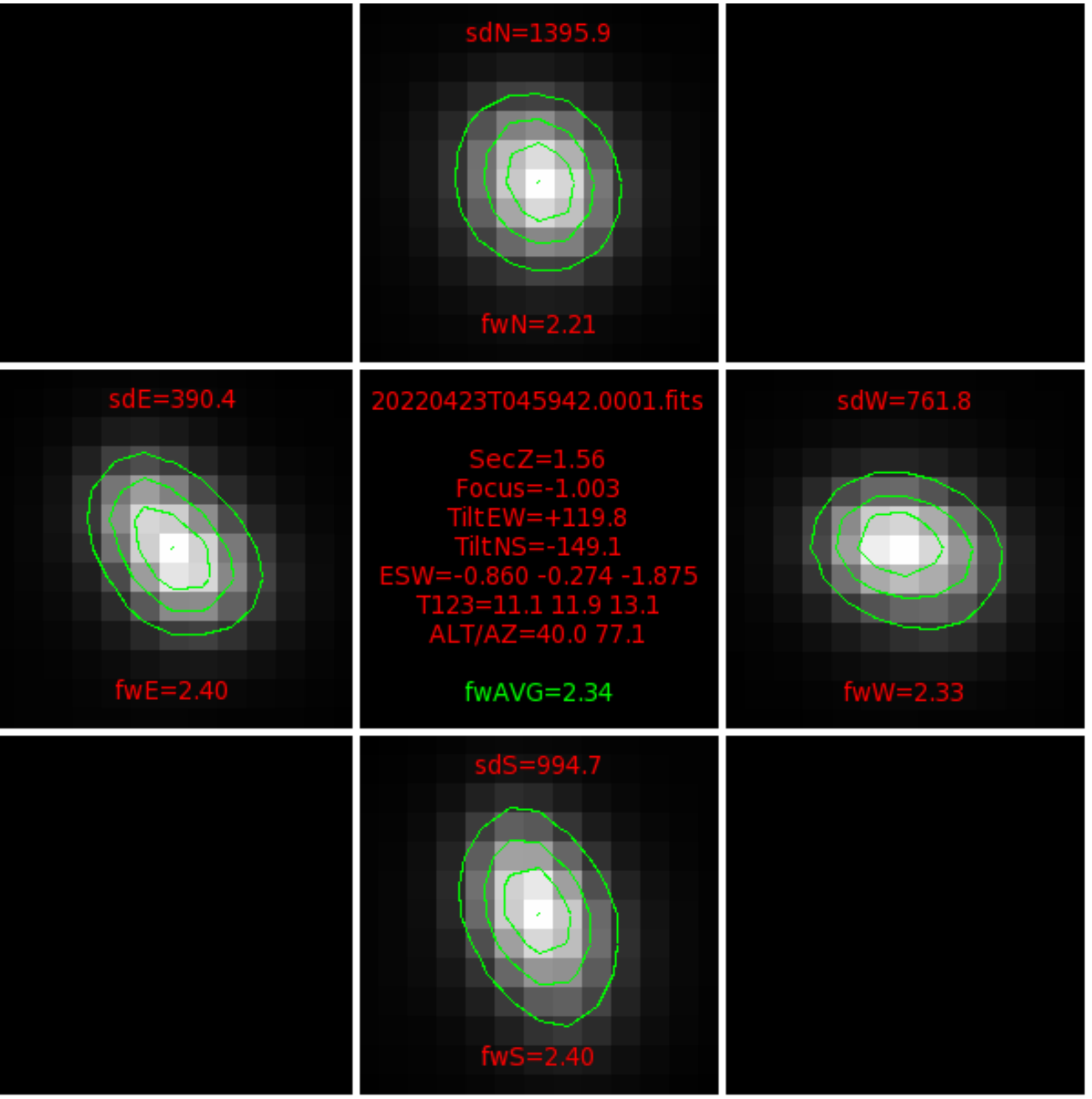
sdN=1395.9
fwN=2.21
sdE=390.4
fwE=2.40
20220423T045942.0001.fits
SecZ=1.56
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.1 11.9 13.1
ALT/AZ=40.0 77.1
fwAVG=2.34
sdW=761.8
fwW=2.33
sdS=994.7
fwS=2.40
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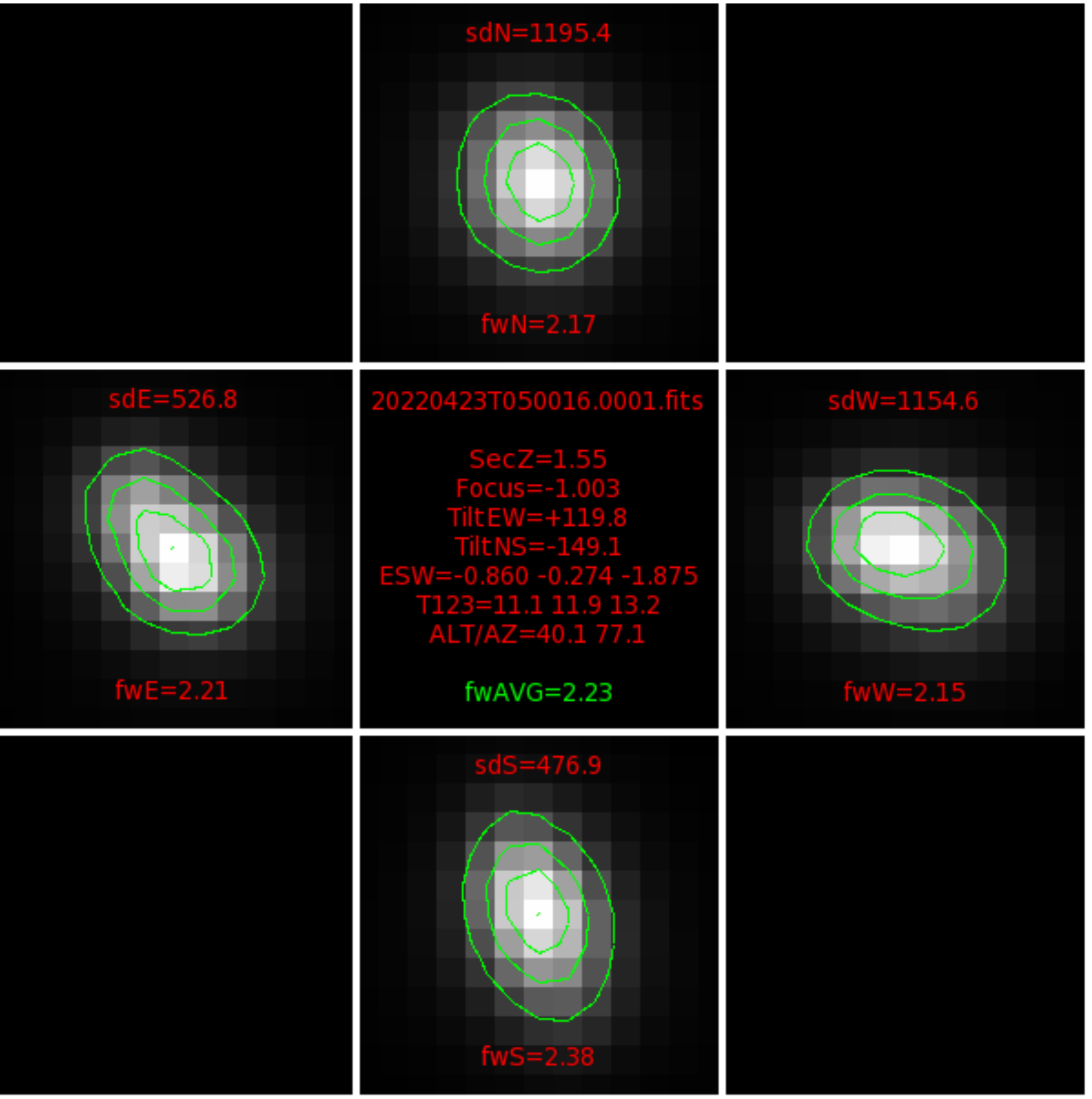
sdN=1195.4
fwN=2.17
sdE=526.8
fwE=2.21
20220423T050016.0001.fits
SecZ=1.55
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.1 11.9 13.2
ALT/AZ=40.1 77.1
fwAVG=2.23
sdW=1154.6
fwW=2.15
sdS=476.9
fwS=2.38
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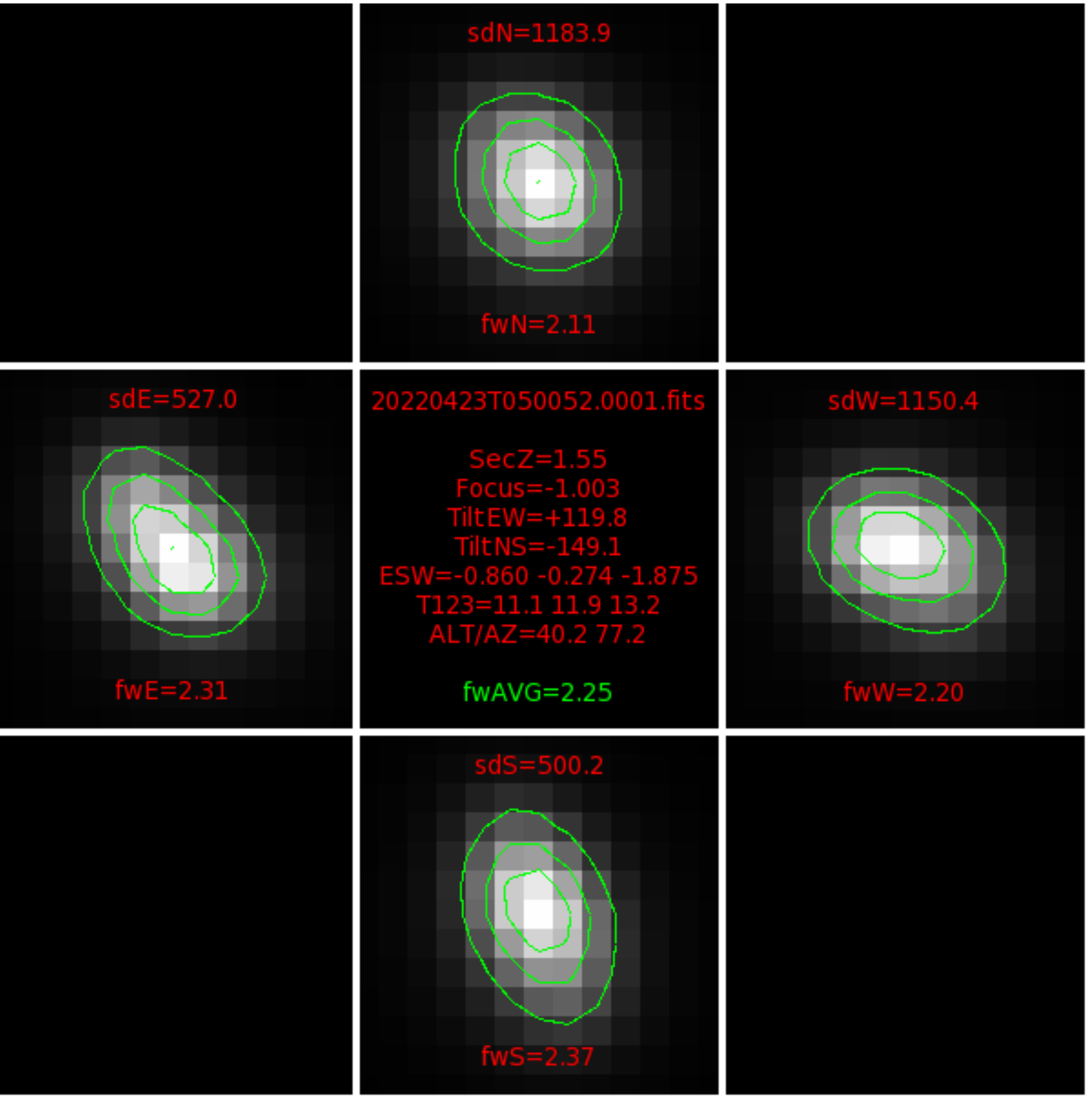
sdN=1183.9
fwN=2.11
sdE=527.0
fwE=2.31
20220423T050052.0001.fits
SecZ=1.55
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.1 11.9 13.2
ALT/AZ=40.2 77.2
fwAVG=2.25
sdW=1150.4
fwW=2.20
sdS=500.2
fwS=2.37
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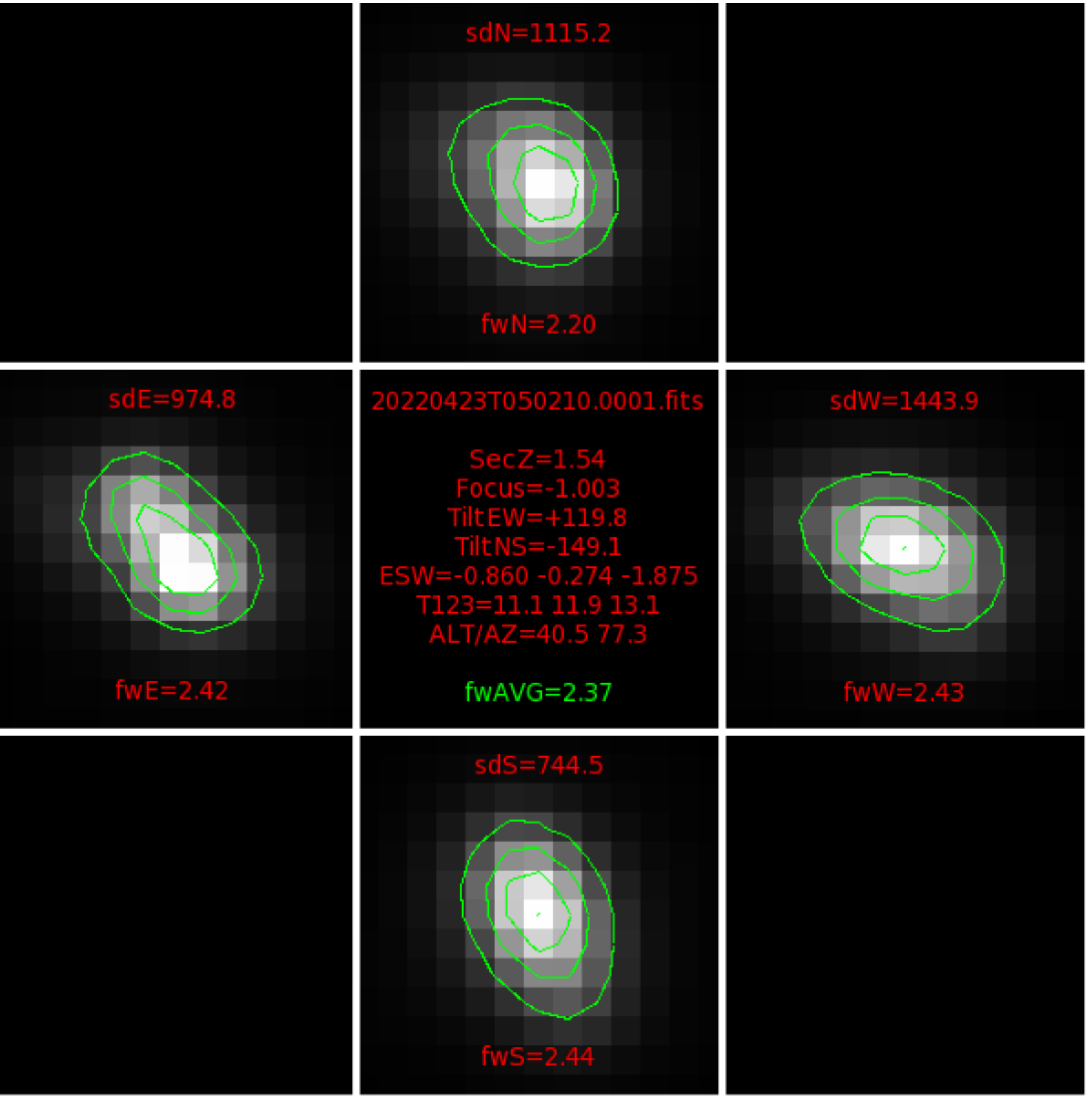
sdN=1115.2
fwN=2.20
sdE=974.8
fwE=2.42
20220423T050210.0001.fits
SecZ=1.54
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.1 11.9 13.1
ALT/AZ=40.5 77.3
fwAVG=2.37
sdW=1443.9
fwW=2.43
sdS=744.5
fwS=2.44
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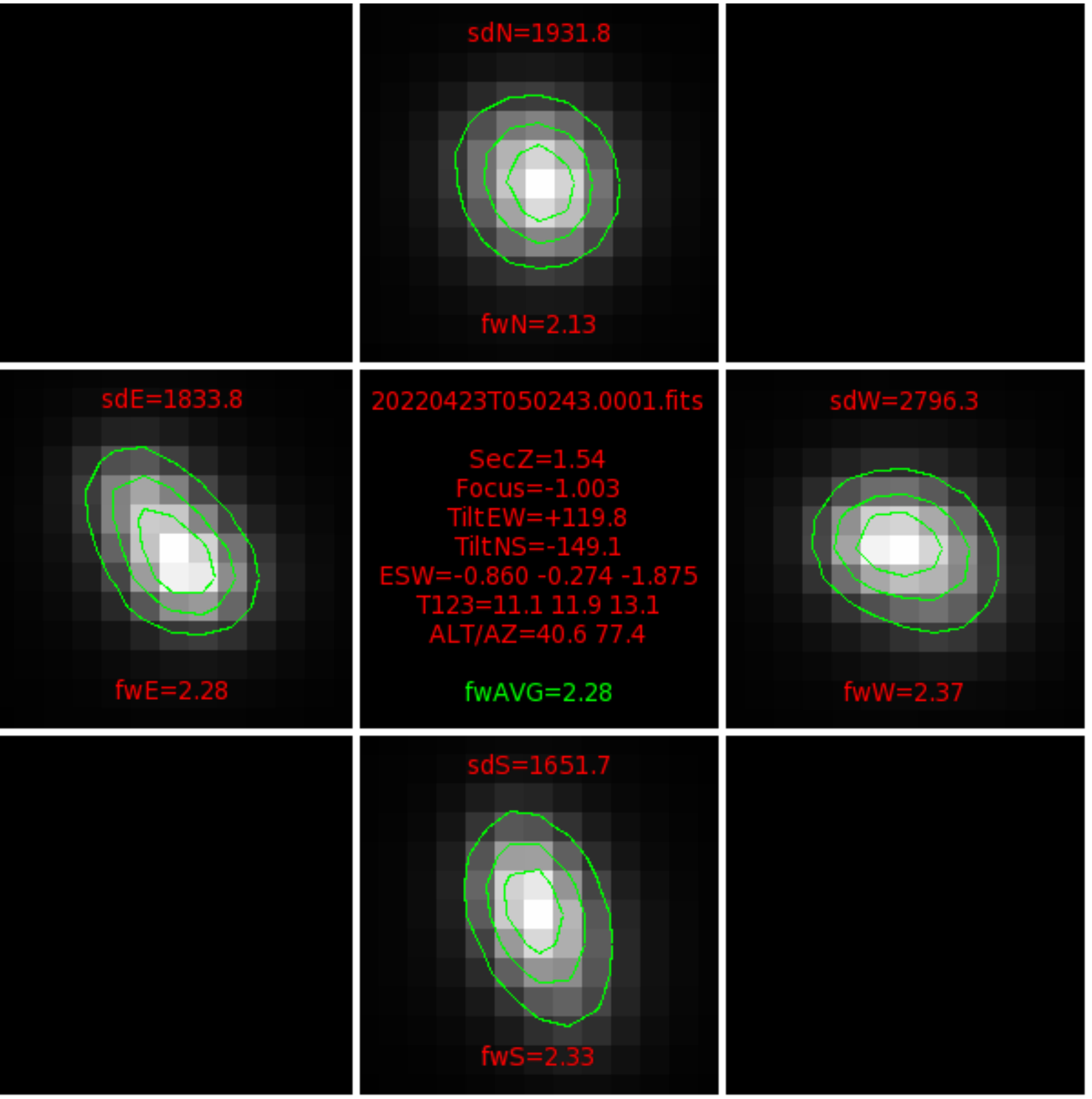
sdN=1931.8
fwN=2.13
sdE=1833.8
fwE=2.28
20220423T050243.0001.fits
SecZ=1.54
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.1 11.9 13.1
ALT/AZ=40.6 77.4
fwAVG=2.28
sdW=2796.3
fwW=2.37
sdS=1651.7
fwS=2.33
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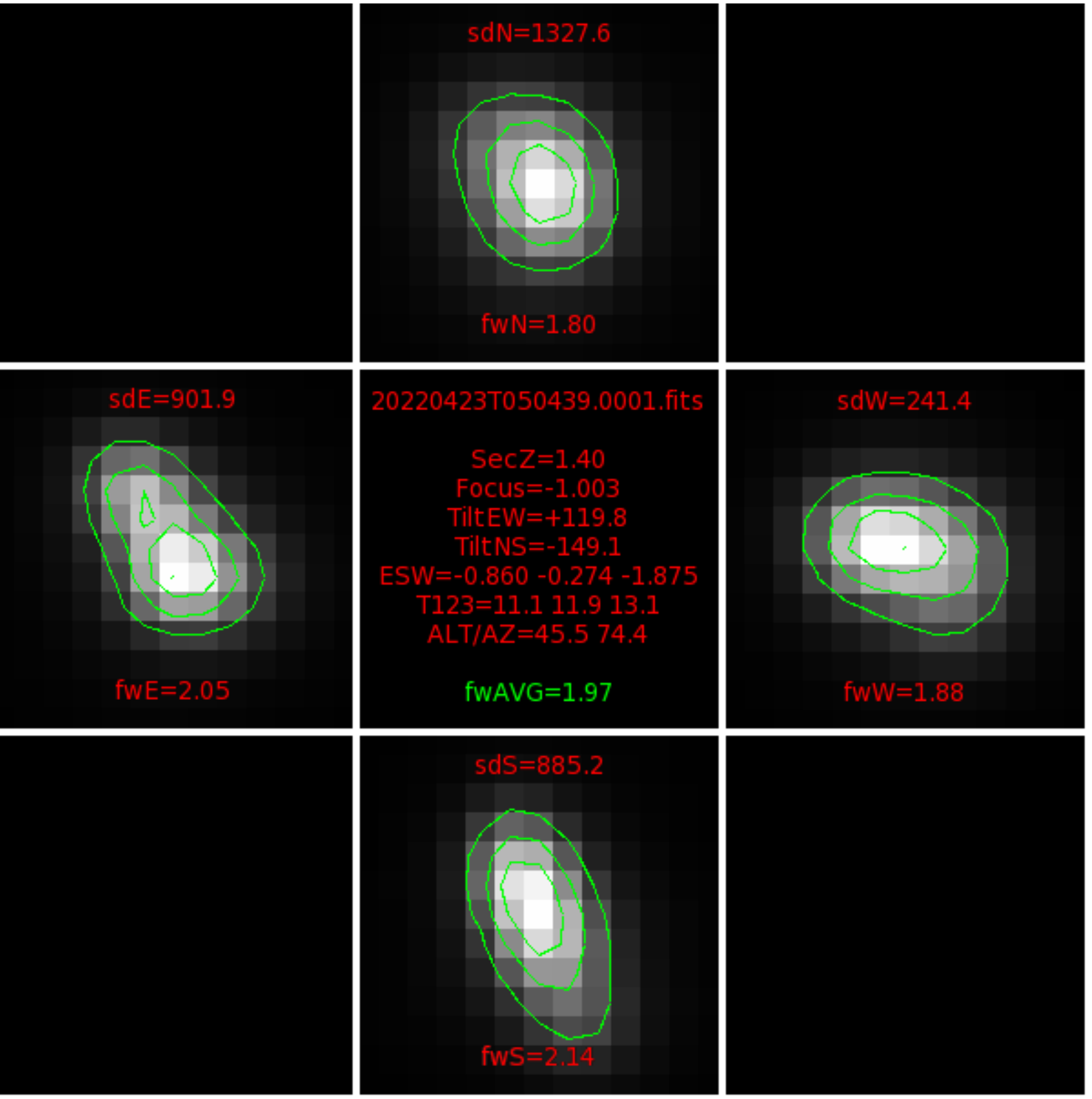
sdN=1327.6
fwN=1.80
sdE=901.9
fwE=2.05
20220423T050439.0001.fits
SecZ=1.40
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.1 11.9 13.1
ALT/AZ=45.5 74.4
fwAVG=1.97
sdW=241.4
fwW=1.88
sdS=885.2
fwS=2.14
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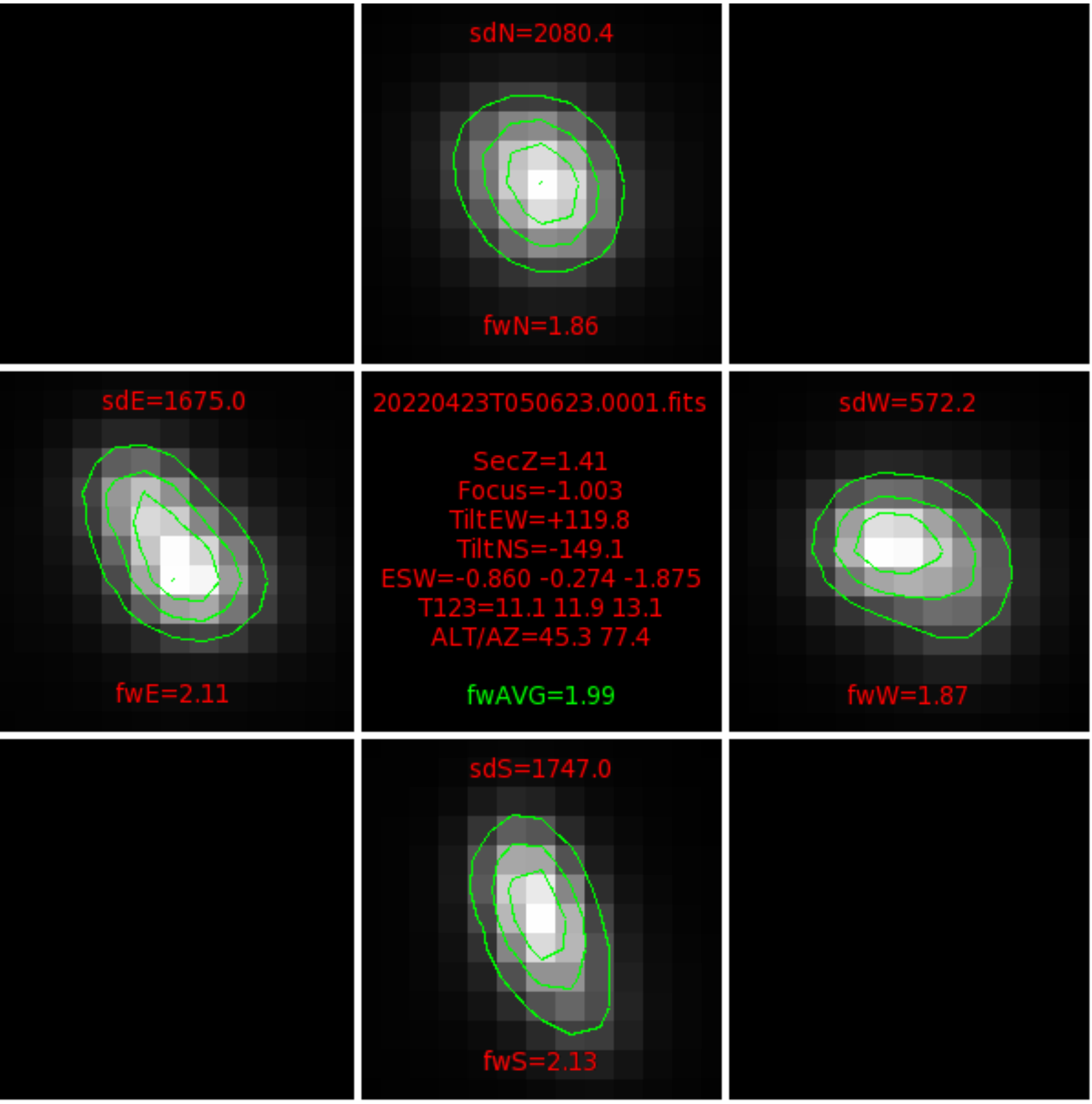
sdN=2080.4
fwN=1.86
sdE=1675.0
fwE=2.11
20220423T050623.0001.fits
SecZ=1.41
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.1 11.9 13.1
ALT/AZ=45.3 77.4
fwAVG=1.99
sdW=572.2
fwW=1.87
sdS=1747.0
fwS=2.13
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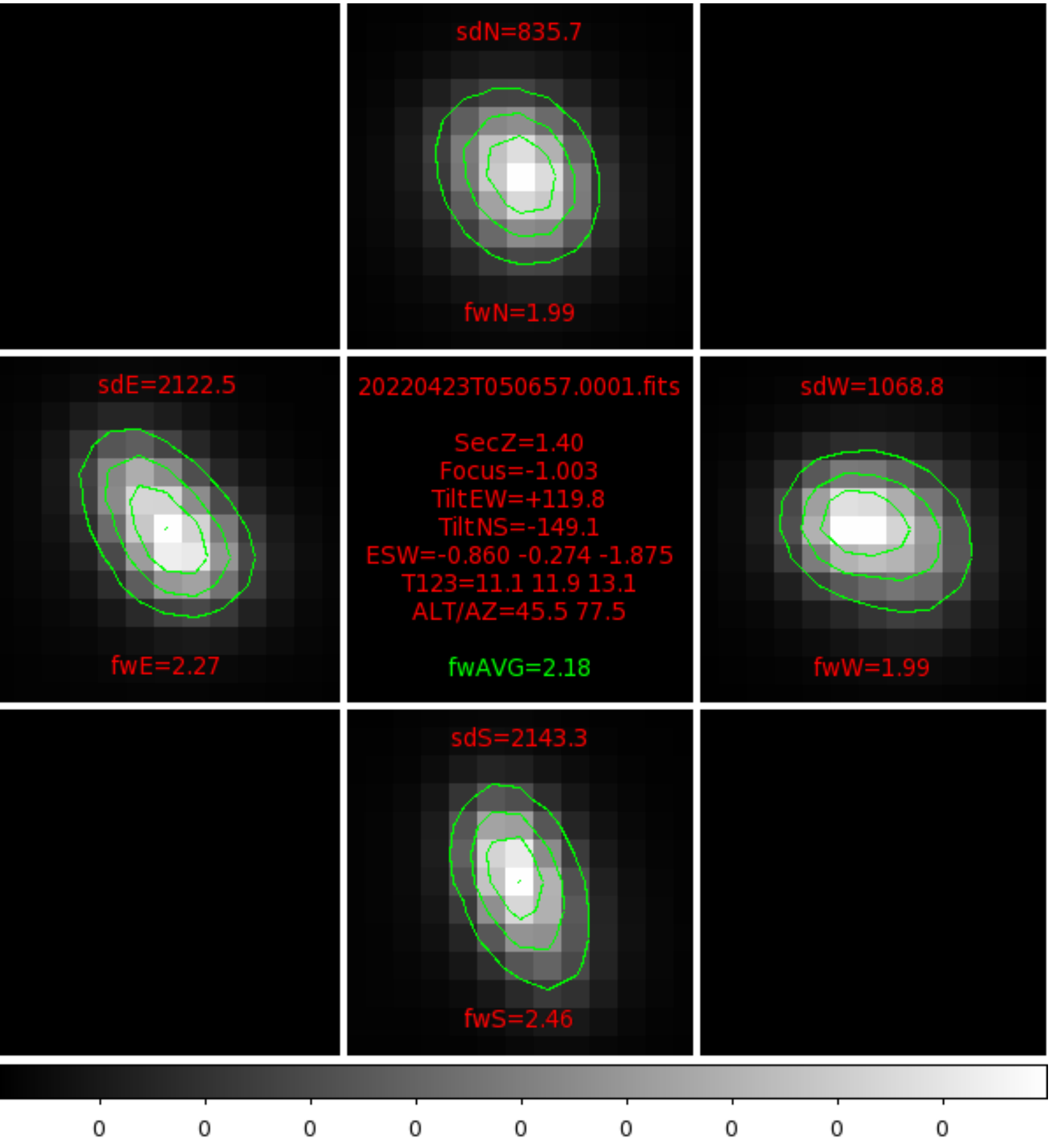
sdN=835.7
fwN=1.99
sdE=2122.5
fwE=2.27
20220423T050657.0001.fits
SecZ=1.40
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.1 11.9 13.1
ALT/AZ=45.5 77.5
fwAVG=2.18
sdW=1068.8
fwW=1.99
sdS=2143.3
fwS=2.46
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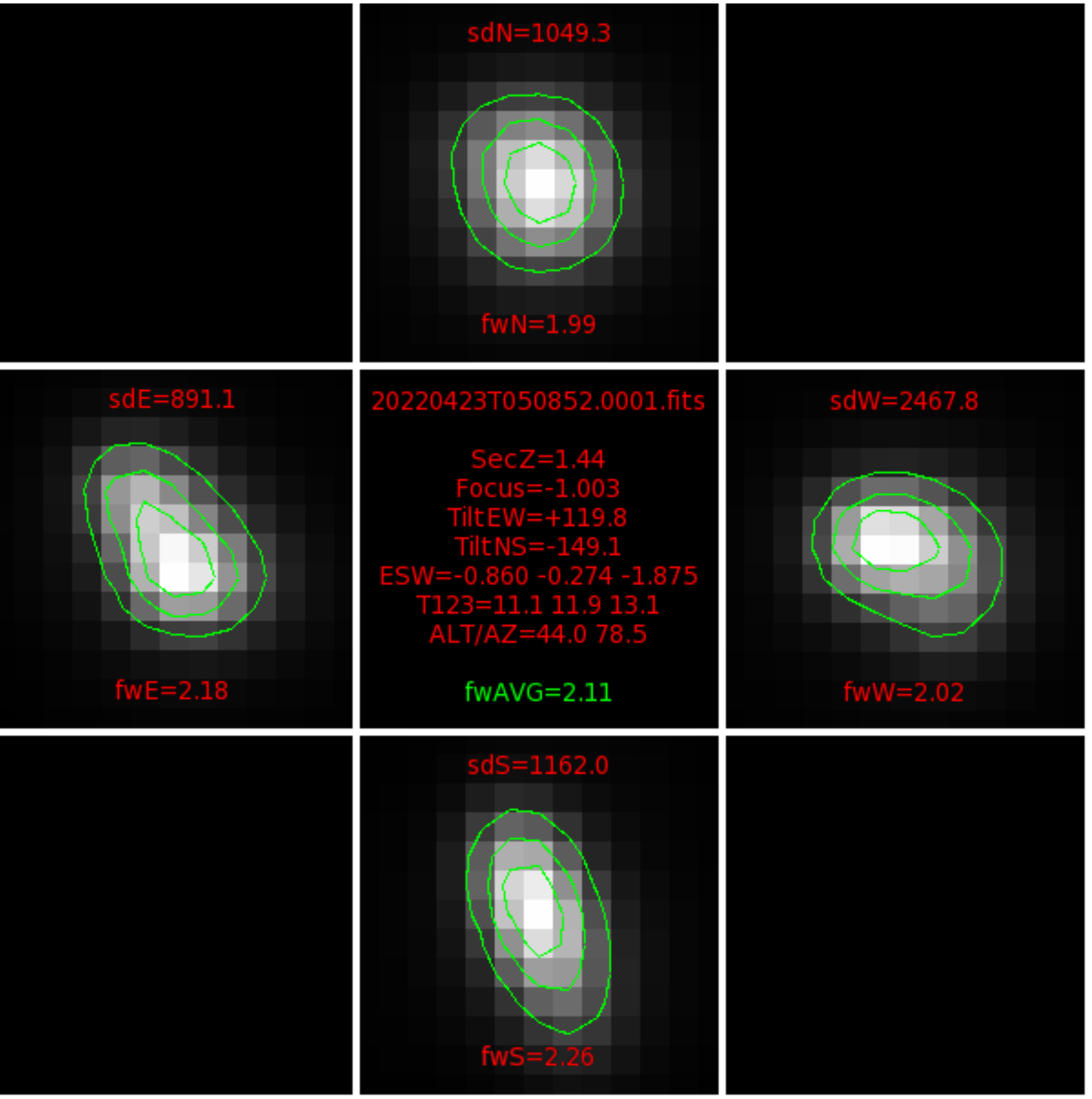
sdN=1049.3
fwN=1.99
sdE=891.1
fwE=2.18
20220423T050852.0001.fits
SecZ=1.44
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.1 11.9 13.1
ALT/AZ=44.0 78.5
fwAVG=2.11
sdW=2467.8
fwW=2.02
sdS=1162.0
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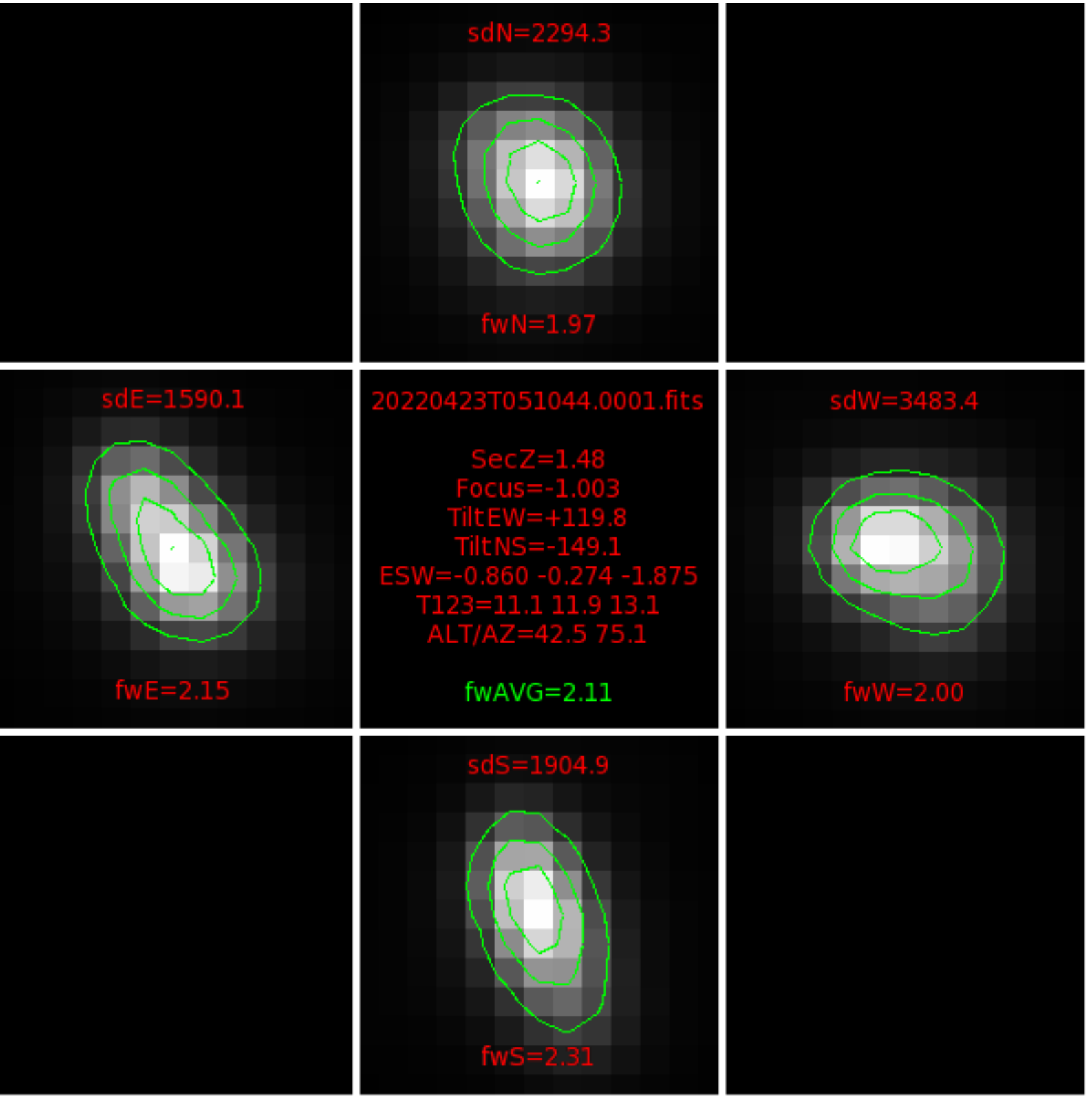
sdN=2294.3
fwN=1.97
sdE=1590.1
fwE=2.15
20220423T051044.0001.fits
SecZ=1.48
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.1 11.9 13.1
ALT/AZ=42.5 75.1
fwAVG=2.11
sdW=3483.4
fwW=2.00
sdS=1904.9
fwS=2.31
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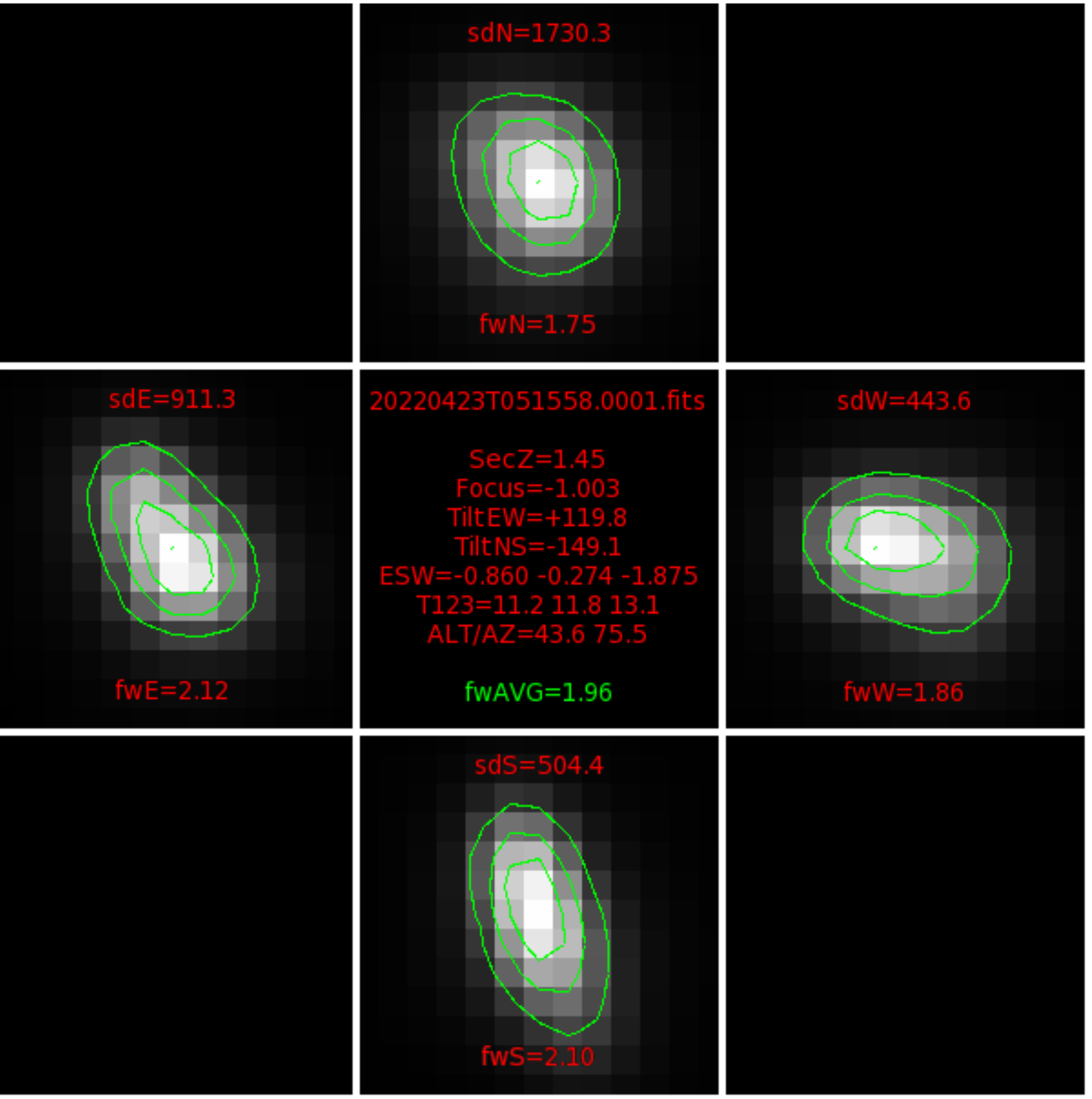
sdN=1730.3
fwN=1.75
sdE=911.3
fwE=2.12
20220423T051558.0001.fits
SecZ=1.45
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.2 11.8 13.1
ALT/AZ=43.6 75.5
fwAVG=1.96
sdW=443.6
fwW=1.86
sdS=504.4
fwS=2.10
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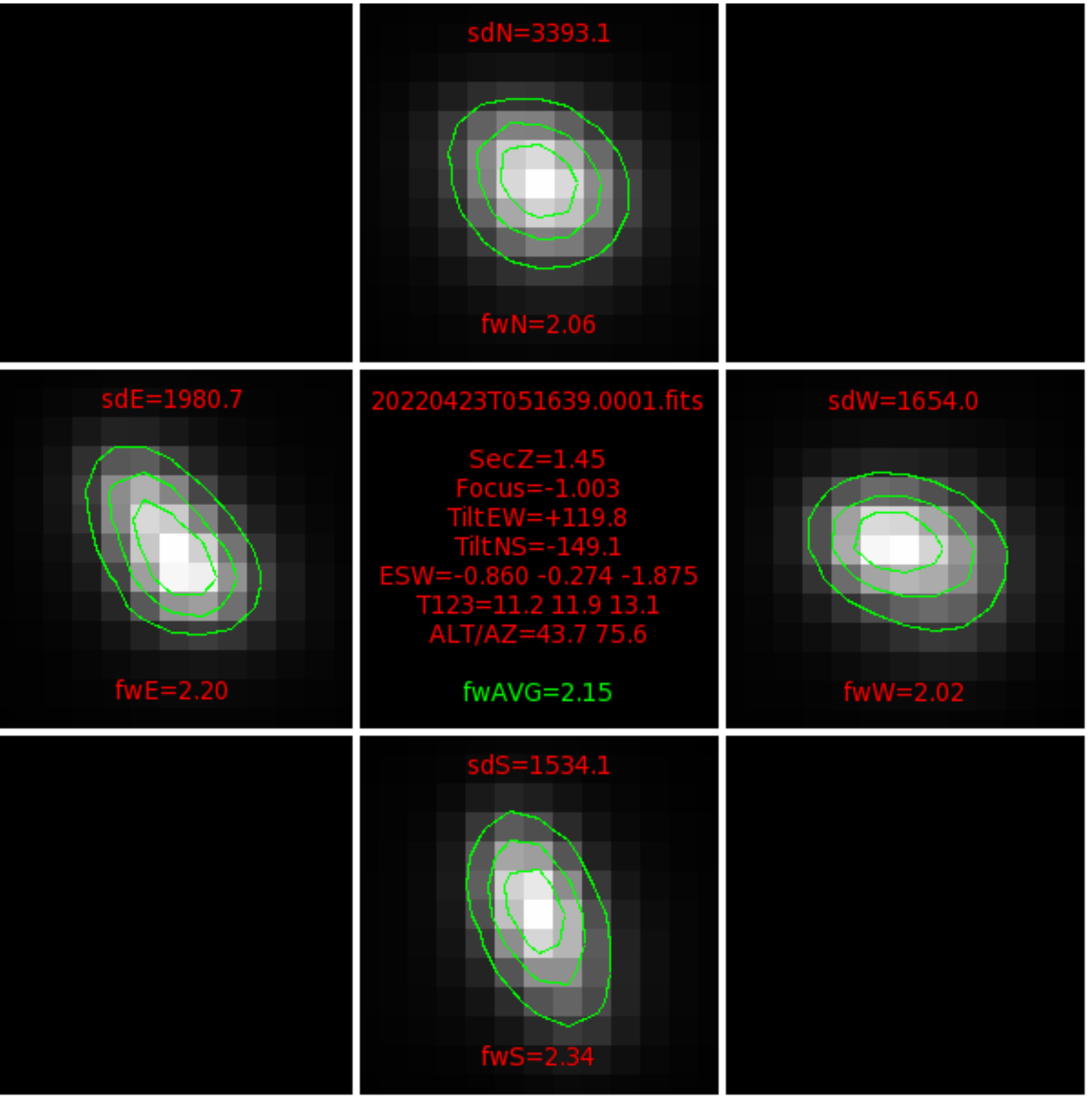
sdN=3393.1
fwN=2.06
sdE=1980.7
fwE=2.20
20220423T051639.0001.fits
SecZ=1.45
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.2 11.9 13.1
ALT/AZ=43.7 75.6
fwAVG=2.15
sdW=1654.0
fwW=2.02
sdS=1534.1
fwS=2.34
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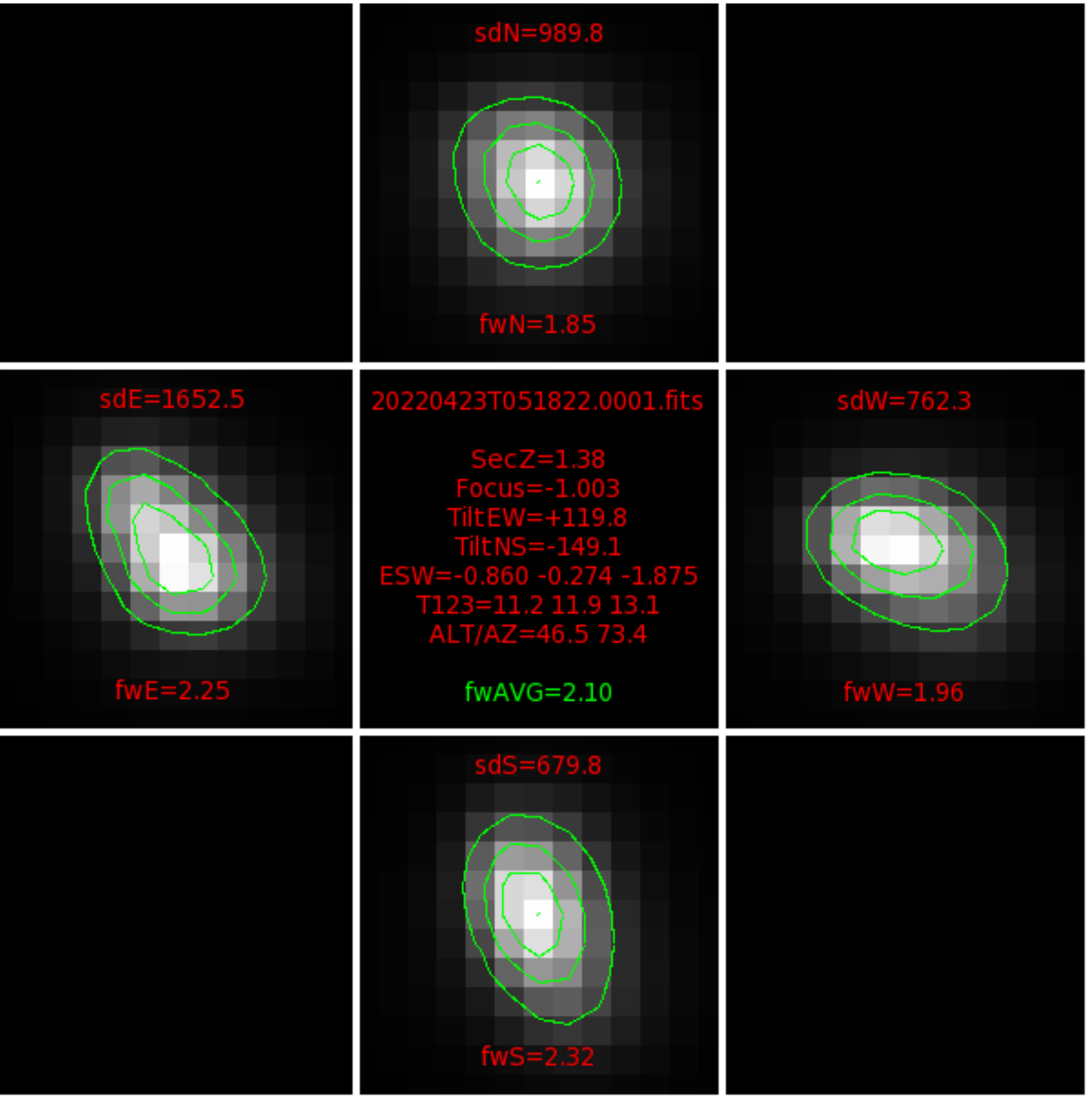
sdN=989.8
fwN=1.85
sdE=1652.5
fwE=2.25
20220423T051822.0001.fits
SecZ=1.38
Focus=-1.003
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.860 -0.274 -1.875
T123=11.2 11.9 13.1
ALT/AZ=46.5 73.4
fwAVG=2.10
sdW=762.3
fwW=1.96
sdS=679.8
fwS=2.32
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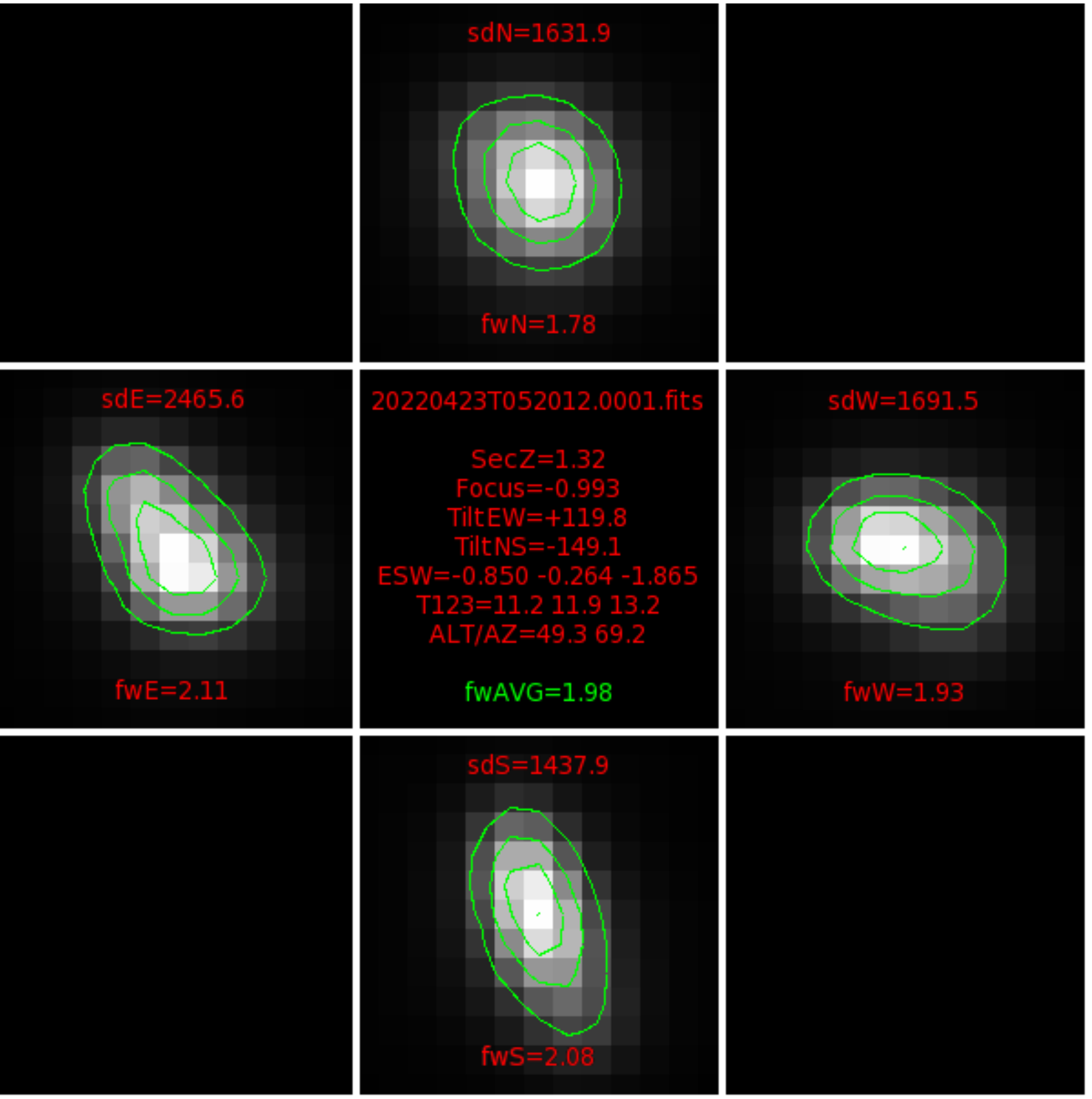
sdN=1631.9
fwN=1.78
sdE=2465.6
fwE=2.11
20220423T052012.0001.fits
SecZ=1.32
Focus=-0.993
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.850 -0.264 -1.865
T123=11.2 11.9 13.2
ALT/AZ=49.3 69.2
fwAVG=1.98
sdW=1691.5
fwW=1.93
sdS=1437.9
fwS=2.08
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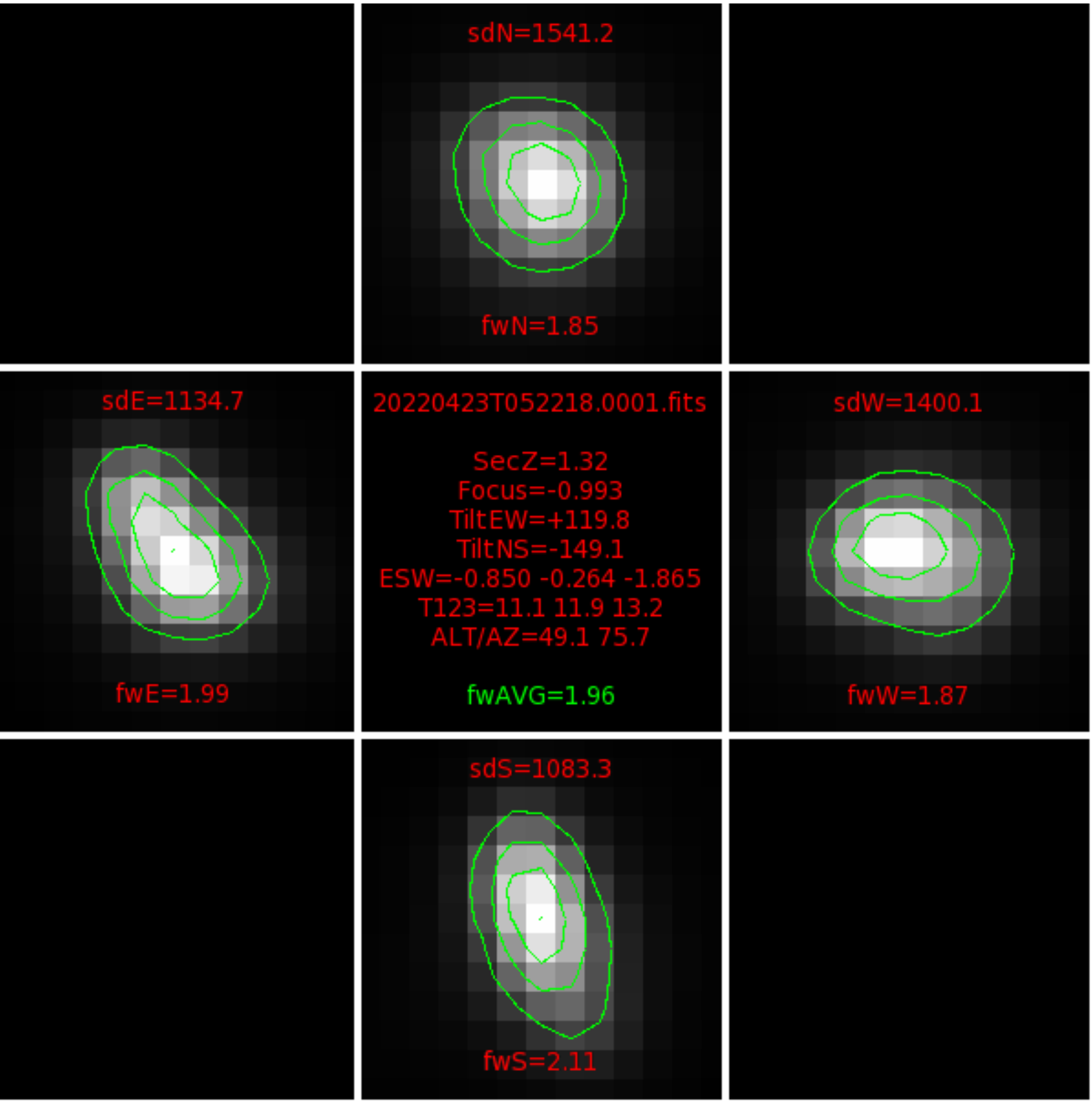
sdN=1541.2
fwN=1.85
sdE=1134.7
fwE=1.99
20220423T052218.0001.fits
SecZ=1.32
Focus=-0.993
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.850 -0.264 -1.865
T123=11.1 11.9 13.2
ALT/AZ=49.1 75.7
fwAVG=1.96
sdW=1400.1
fwW=1.87
sdS=1083.3
fwS=2.11
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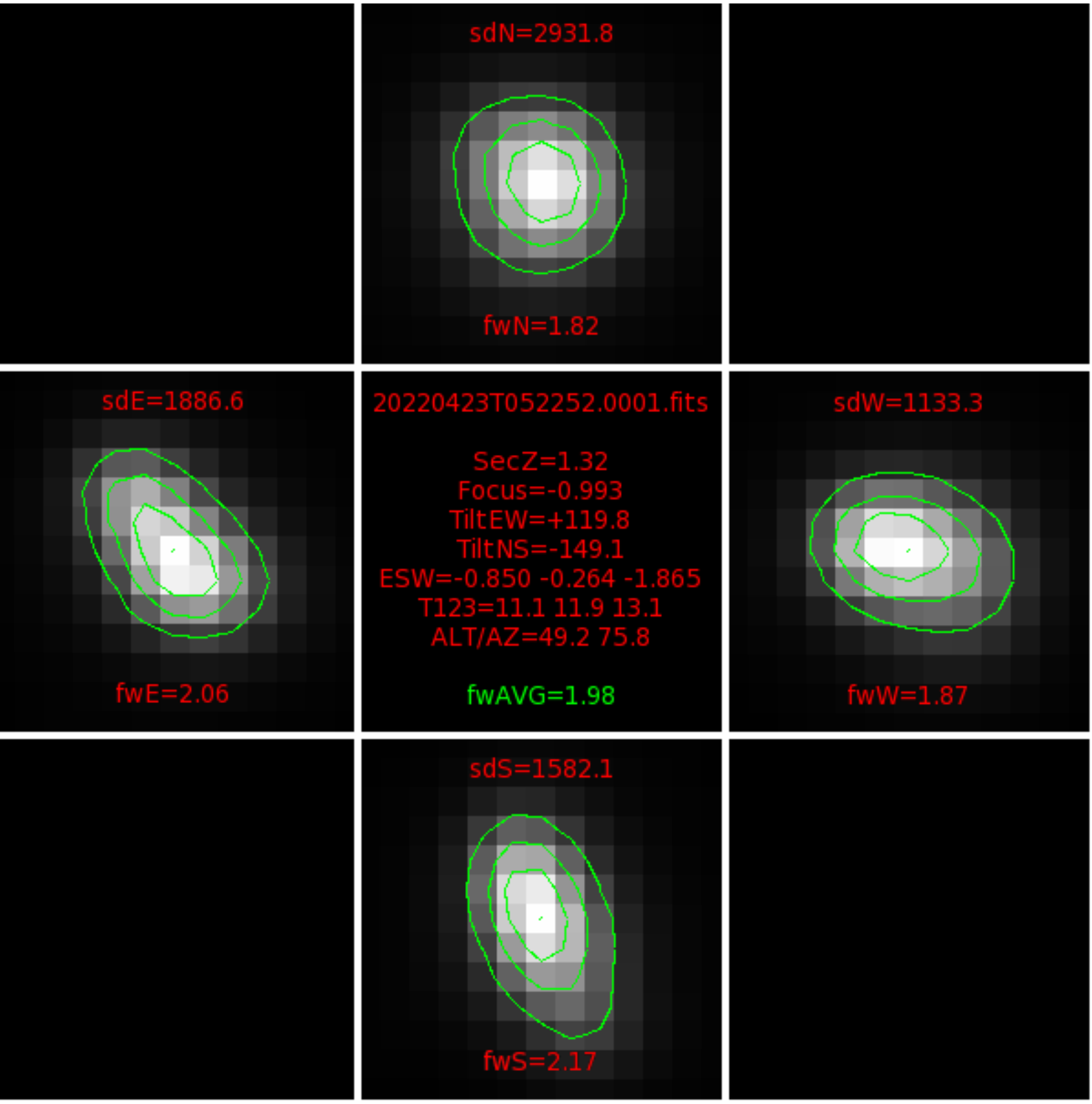
sdN=2931.8
fwN=1.82
sdE=1886.6
fwE=2.06
20220423T052252.0001.fits
SecZ=1.32
Focus=-0.993
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.850 -0.264 -1.865
T123=11.1 11.9 13.1
ALT/AZ=49.2 75.8
fwAVG=1.98
sdW=1133.3
fwW=1.87
sdS=1582.1
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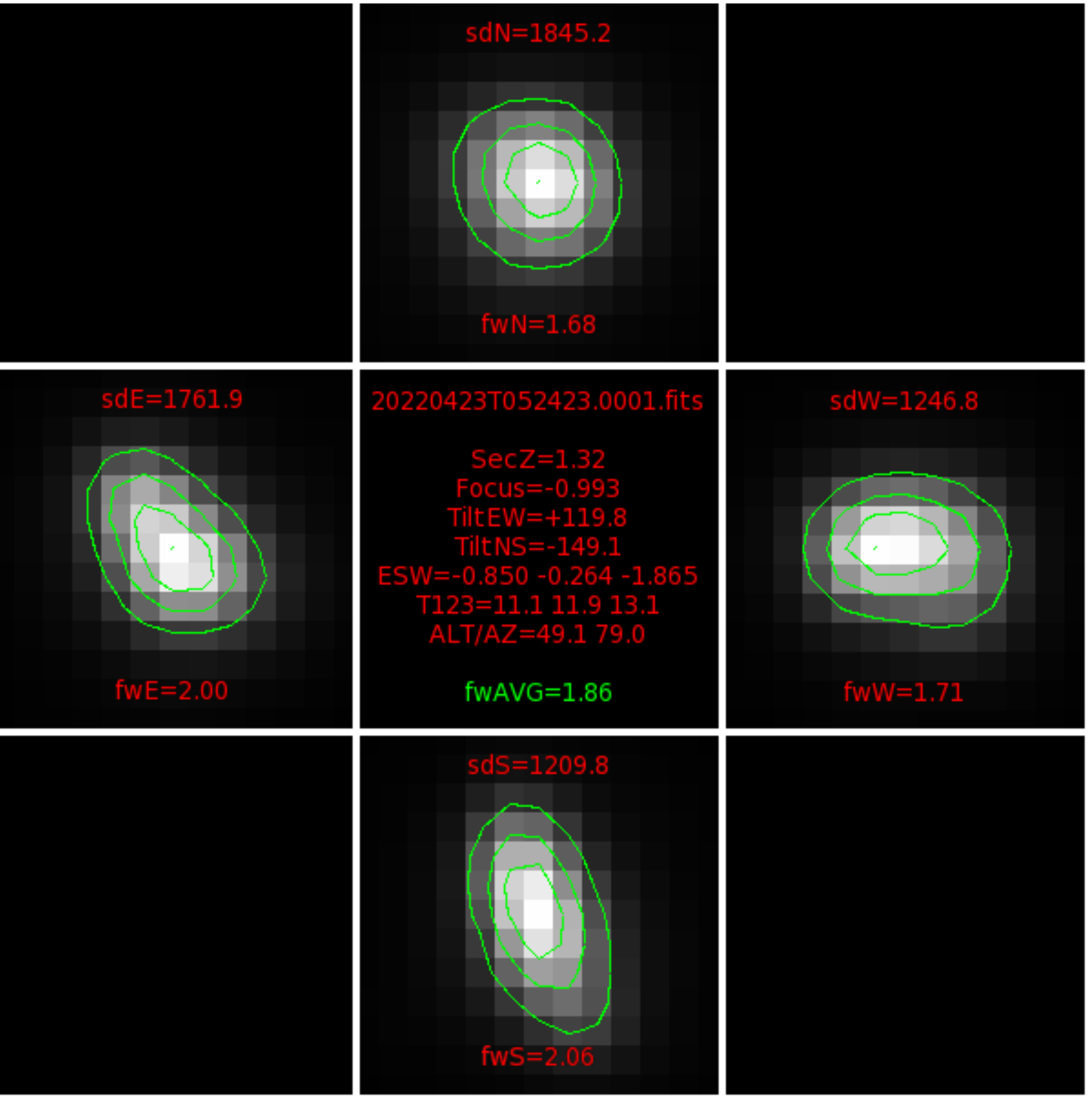
sdN=1845.2
fwN=1.68
sdE=1761.9
fwE=2.00
20220423T052423.0001.fits
SecZ=1.32
Focus=-0.993
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.850 -0.264 -1.865
T123=11.1 11.9 13.1
ALT/AZ=49.1 79.0
fwAVG=1.86
sdW=1246.8
fwW=1.71
sdS=1209.8
fwS=2.06
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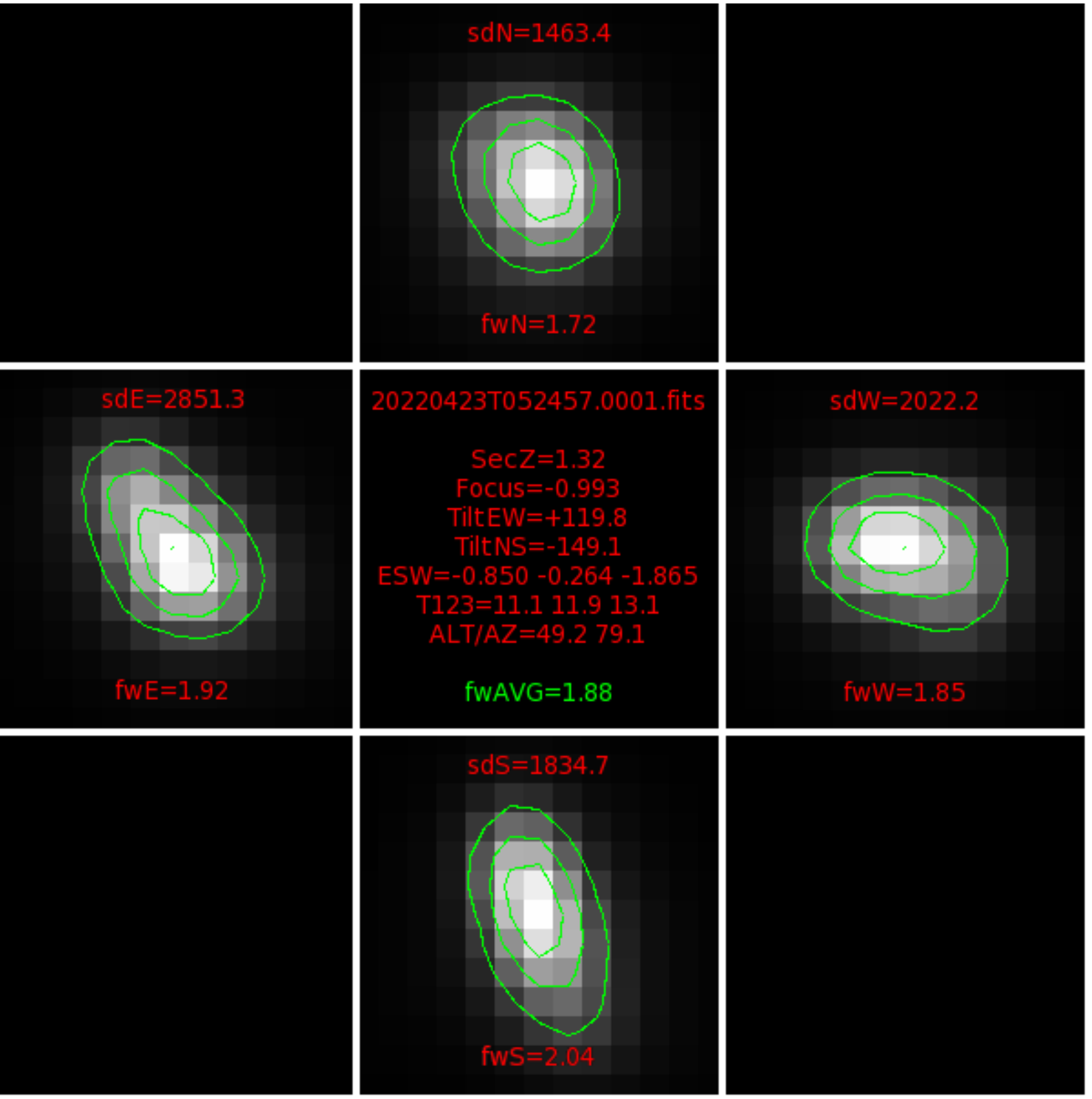
sdN=1463.4
fwN=1.72
sdE=2851.3
fwE=1.92
20220423T052457.0001.fits
SecZ=1.32
Focus=-0.993
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.850 -0.264 -1.865
T123=11.1 11.9 13.1
ALT/AZ=49.2 79.1
fwAVG=1.88
sdW=2022.2
fwW=1.85
sdS=1834.7
fwS=2.04
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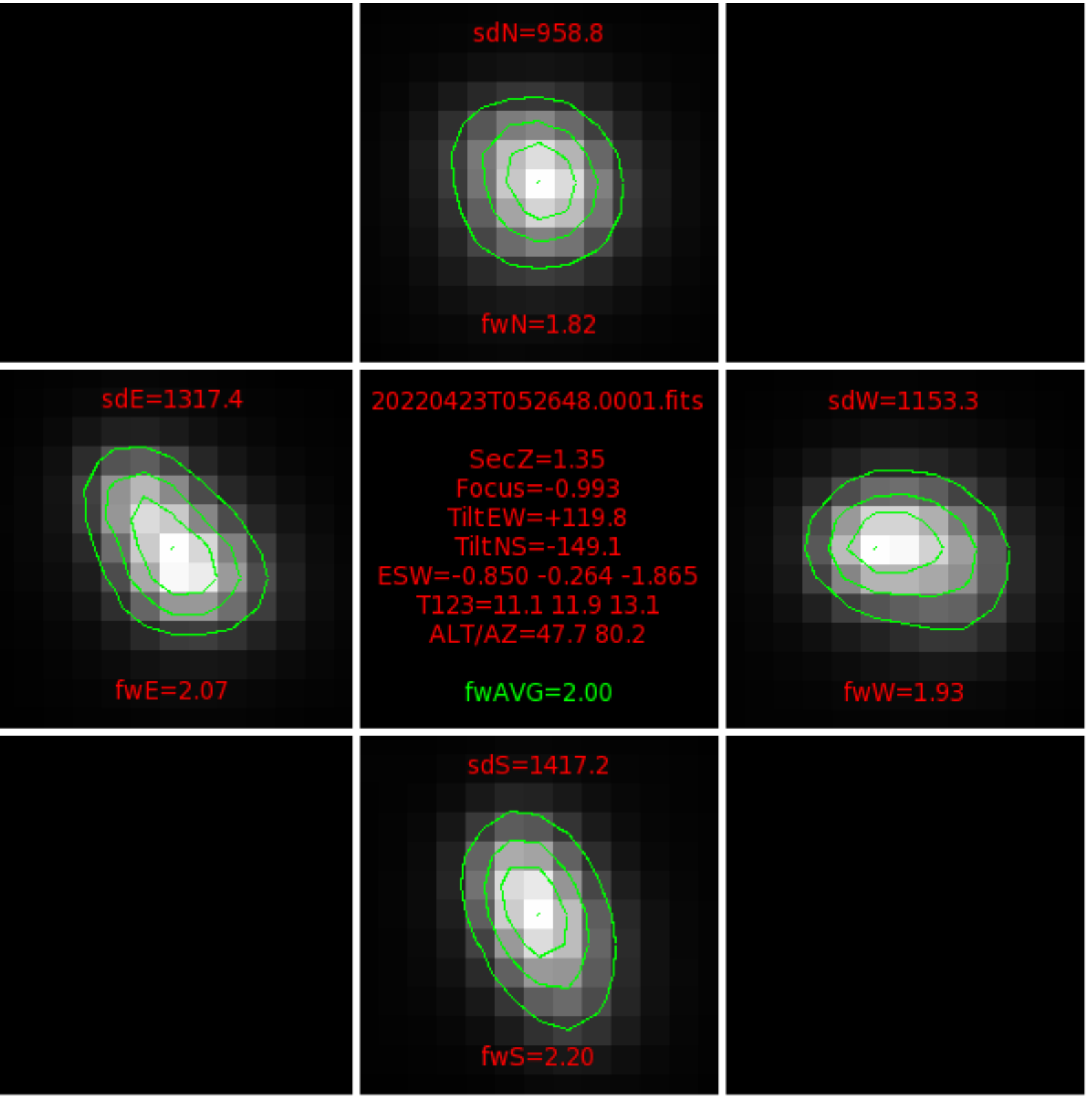
sdN=958.8
fwN=1.82
sdE=1317.4
fwE=2.07
20220423T052648.0001.fits
SecZ=1.35
Focus=-0.993
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.850 -0.264 -1.865
T123=11.1 11.9 13.1
ALT/AZ=47.7 80.2
fwAVG=2.00
sdW=1153.3
fwW=1.93
sdS=1417.2
fwS=2.20
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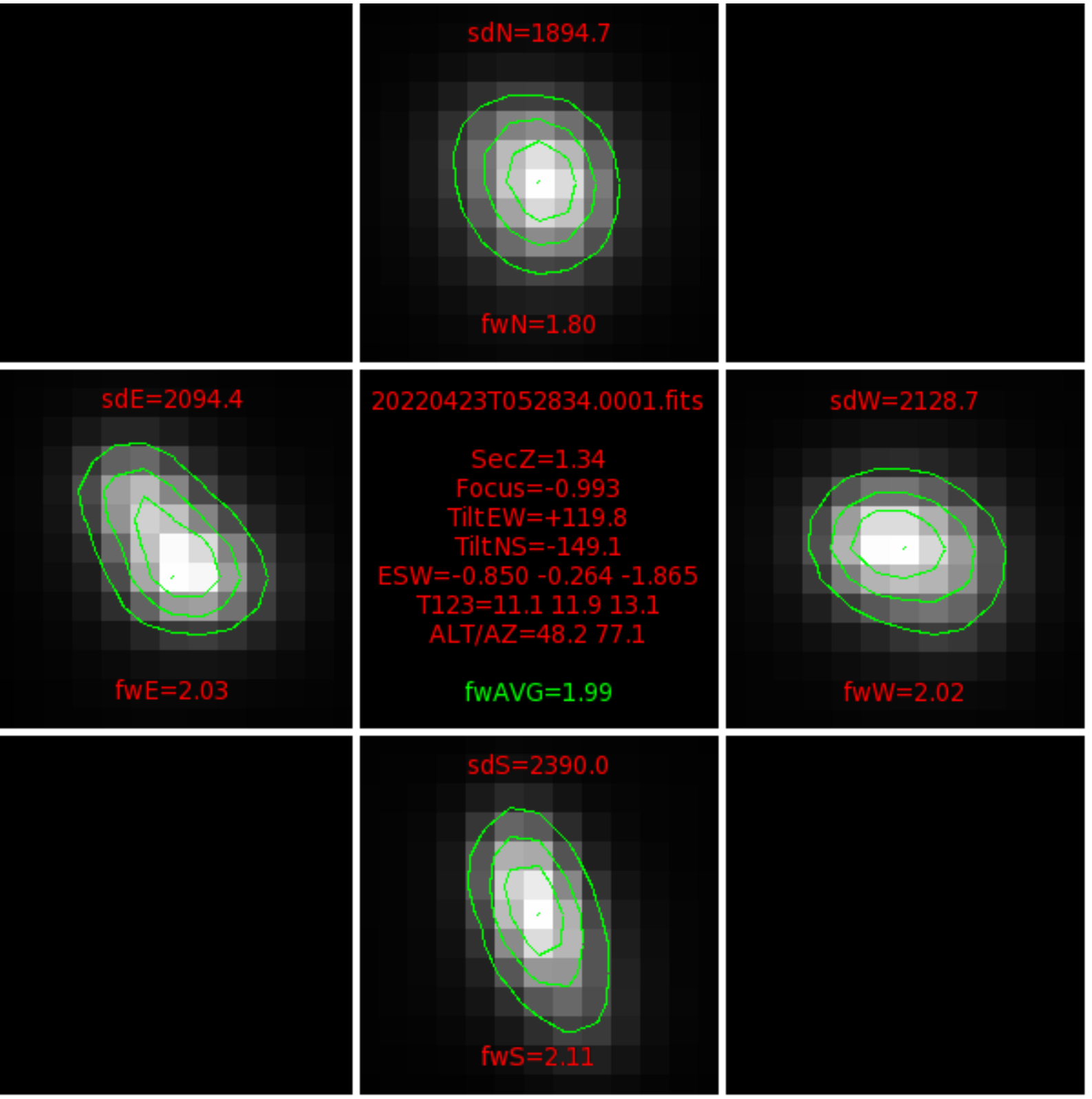
sdN=1894.7
fwN=1.80
sdE=2094.4
fwE=2.03
20220423T052834.0001.fits
SecZ=1.34
Focus=-0.993
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.850 -0.264 -1.865
T123=11.1 11.9 13.1
ALT/AZ=48.2 77.1
fwAVG=1.99
sdW=2128.7
fwW=2.02
sdS=2390.0
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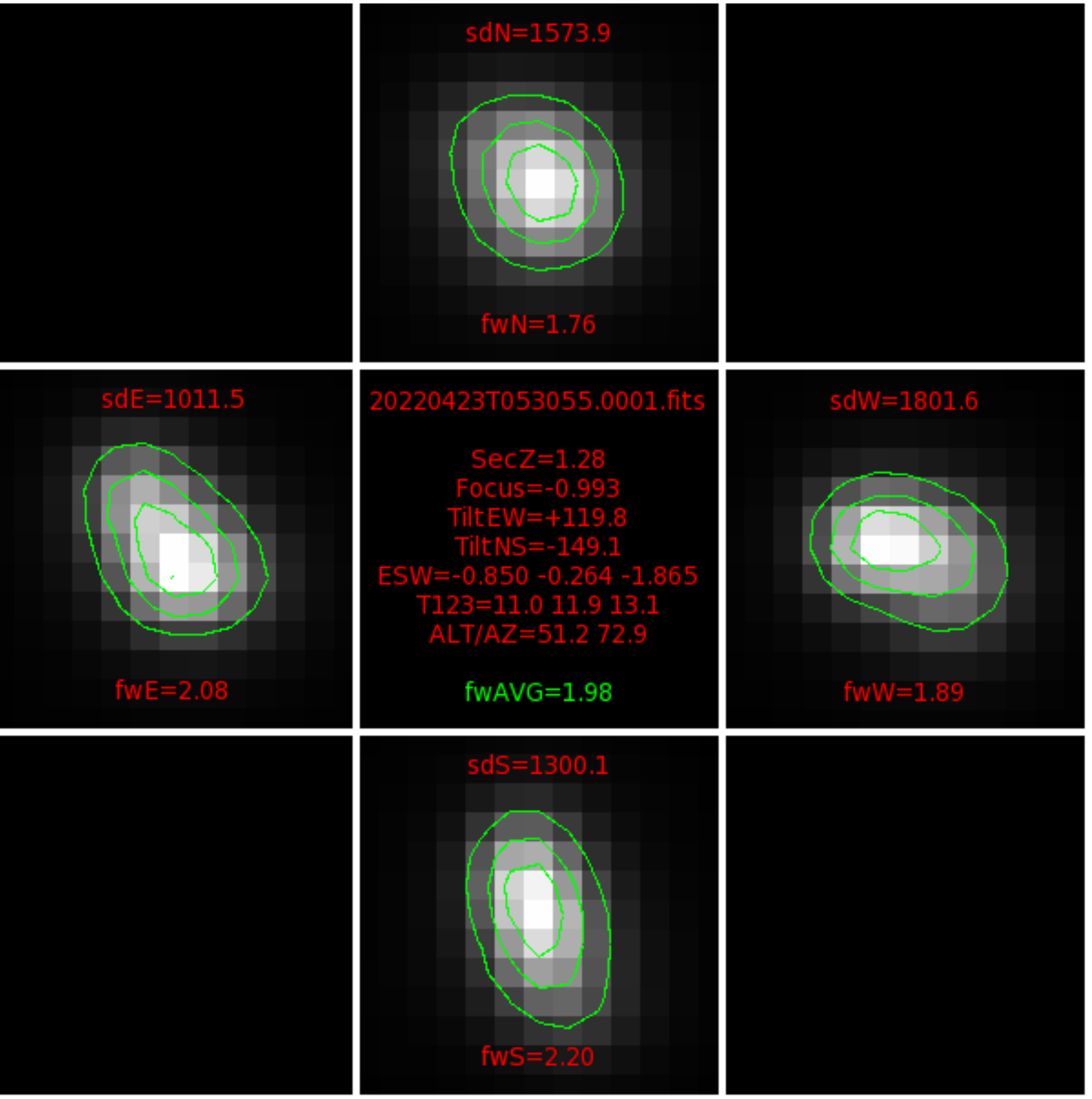
sdN=1573.9
fwN=1.76
sdE=1011.5
fwE=2.08
20220423T053055.0001.fits
SecZ=1.28
Focus=-0.993
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.850 -0.264 -1.865
T123=11.0 11.9 13.1
ALT/AZ=51.2 72.9
fwAVG=1.98
sdW=1801.6
fwW=1.89
sdS=1300.1
fwS=2.20
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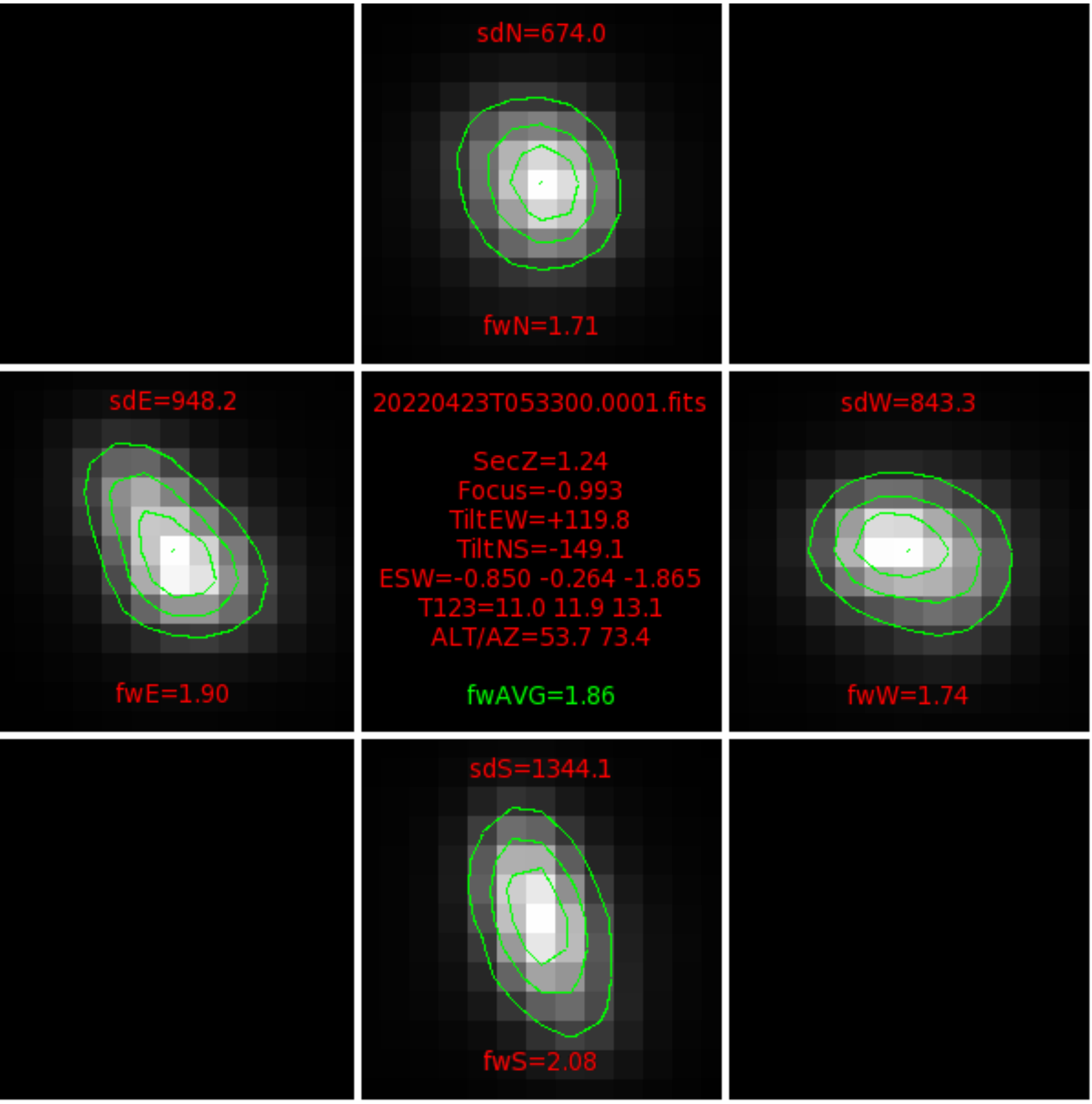
sdN=674.0
fwN=1.71
sdE=948.2
fwE=1.90
20220423T053300.0001.fits
SecZ=1.24
Focus=-0.993
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.850 -0.264 -1.865
T123=11.0 11.9 13.1
ALT/AZ=53.7 73.4
fwAVG=1.86
sdW=843.3
fwW=1.74
sdS=1344.1
fwS=2.08
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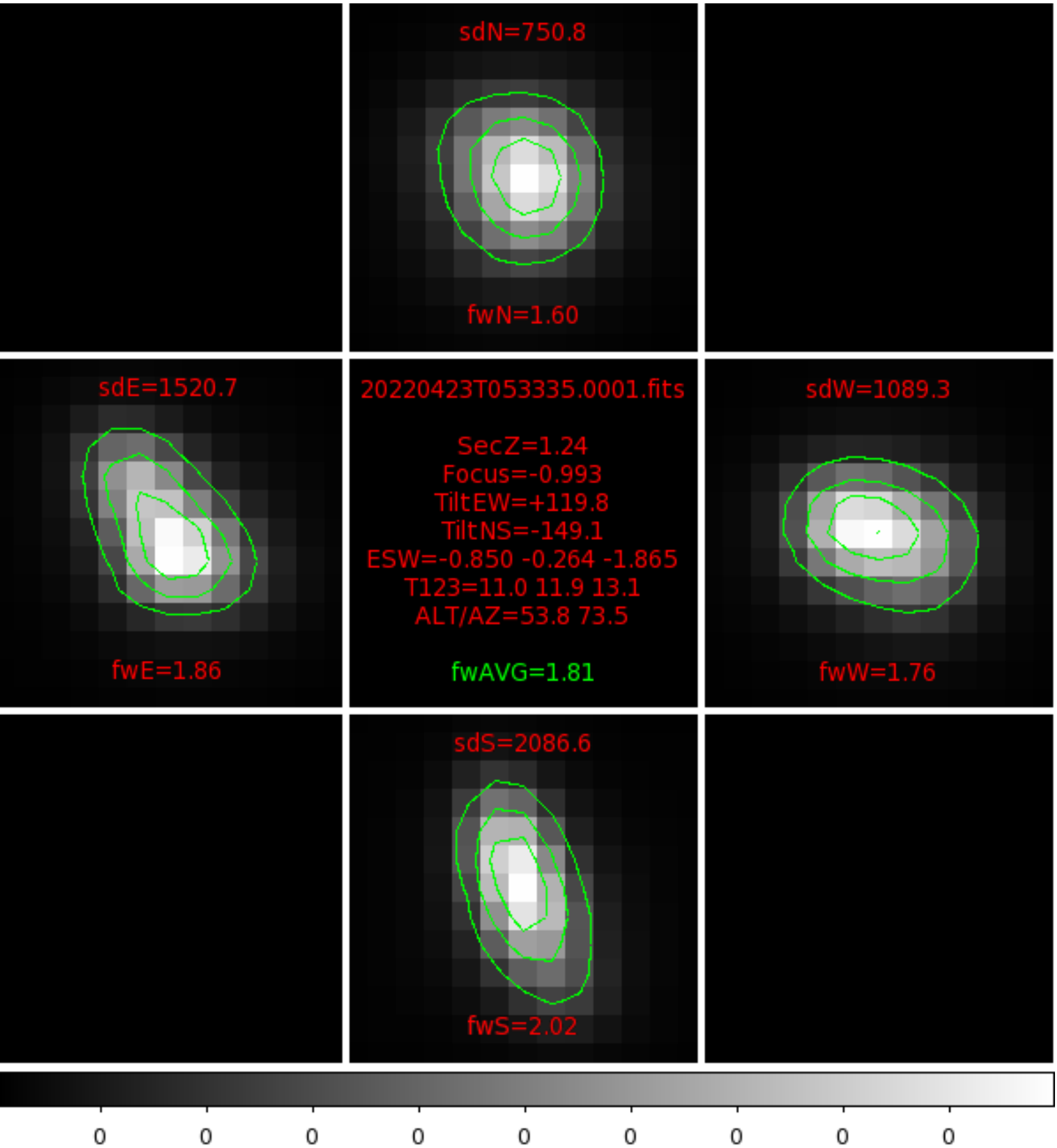
sdN=750.8
fwN=1.60
sdE=1520.7
fwE=1.86
20220423T053335.0001.fits
SecZ=1.24
Focus=-0.993
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.850 -0.264 -1.865
T123=11.0 11.9 13.1
ALT/AZ=53.8 73.5
fwAVG=1.81
sdW=1089.3
fwW=1.76
sdS=2086.6
fwS=2.02
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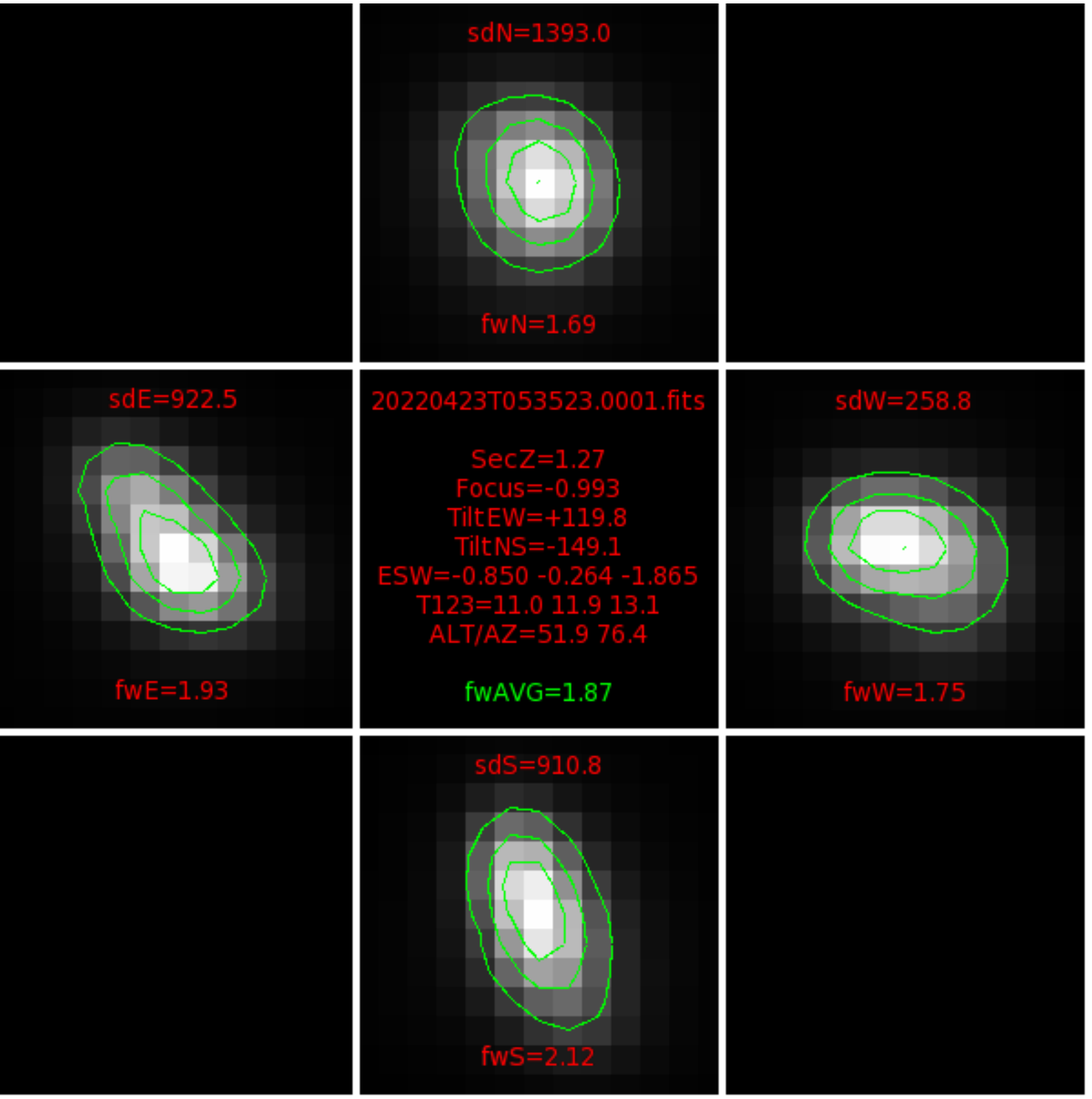
sdN=1393.0
fwN=1.69
sdE=922.5
fwE=1.93
20220423T053523.0001.fits
SecZ=1.27
Focus=-0.993
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.850 -0.264 -1.865
T123=11.0 11.9 13.1
ALT/AZ=51.9 76.4
fwAVG=1.87
sdW=258.8
fwW=1.75
sdS=910.8
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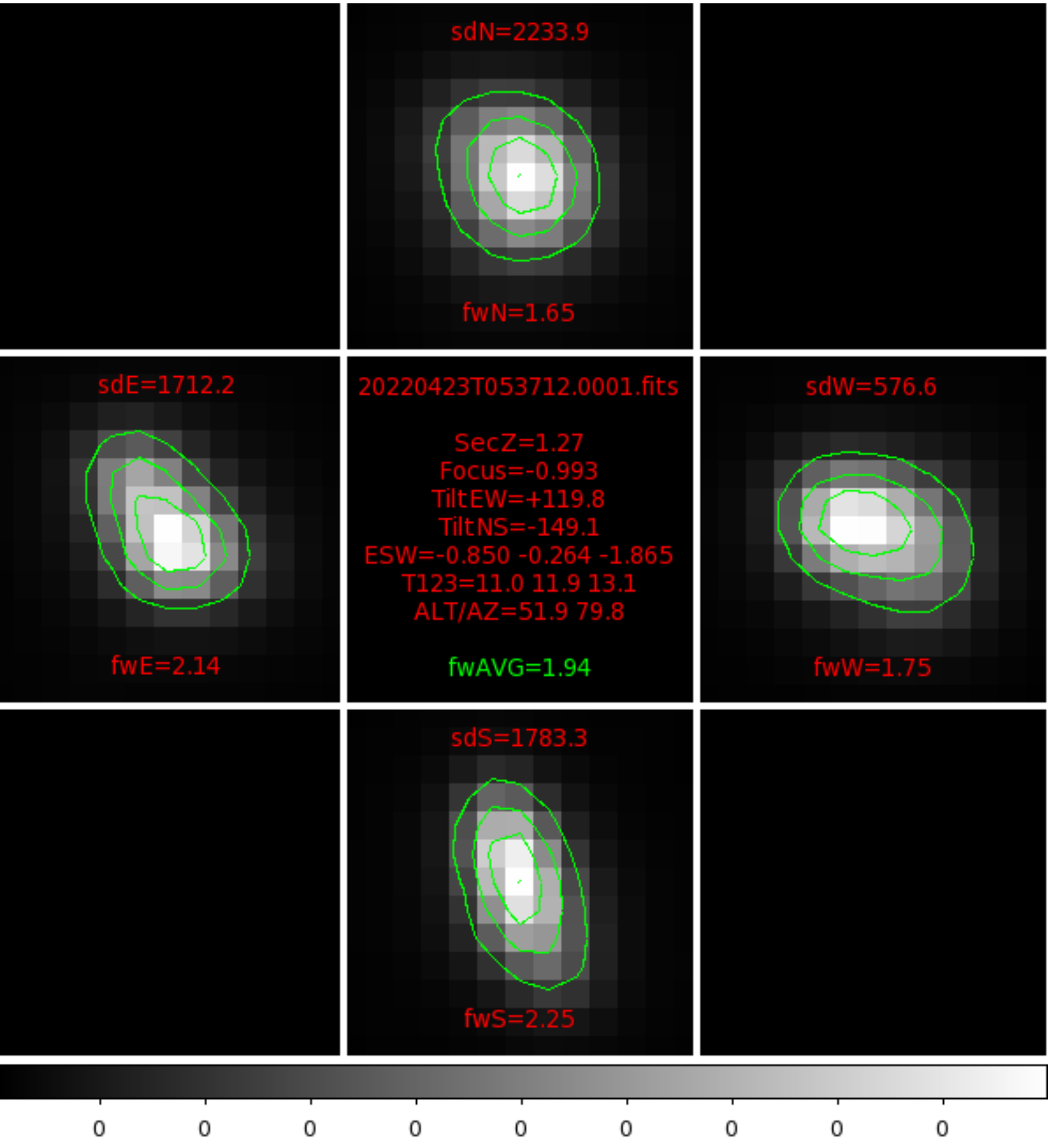
sdN=2233.9
fwN=1.65
sdE=1712.2
fwE=2.14
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SecZ=1.27
Focus=-0.993
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.850 -0.264 -1.865
T123=11.0 11.9 13.1
ALT/AZ=51.9 79.8
fwAVG=1.94
sdW=576.6
fwW=1.75
sdS=1783.3
fwS=2.25
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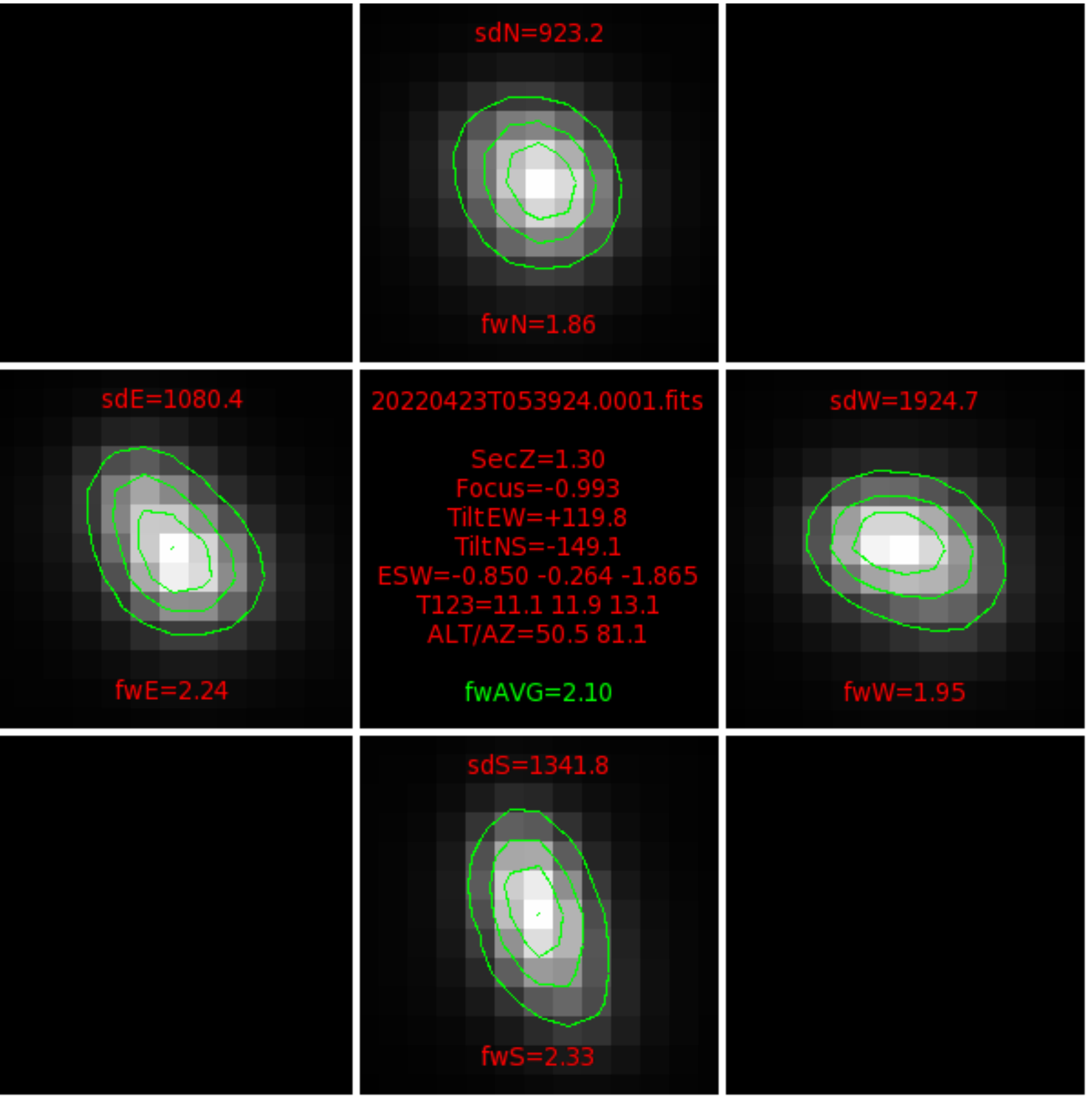
sdN=923.2
fwN=1.86
sdE=1080.4
fwE=2.24
20220423T053924.0001.fits
SecZ=1.30
Focus=-0.993
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.850 -0.264 -1.865
T123=11.1 11.9 13.1
ALT/AZ=50.5 81.1
fwAVG=2.10
sdW=1924.7
fwW=1.95
sdS=1341.8
fwS=2.33
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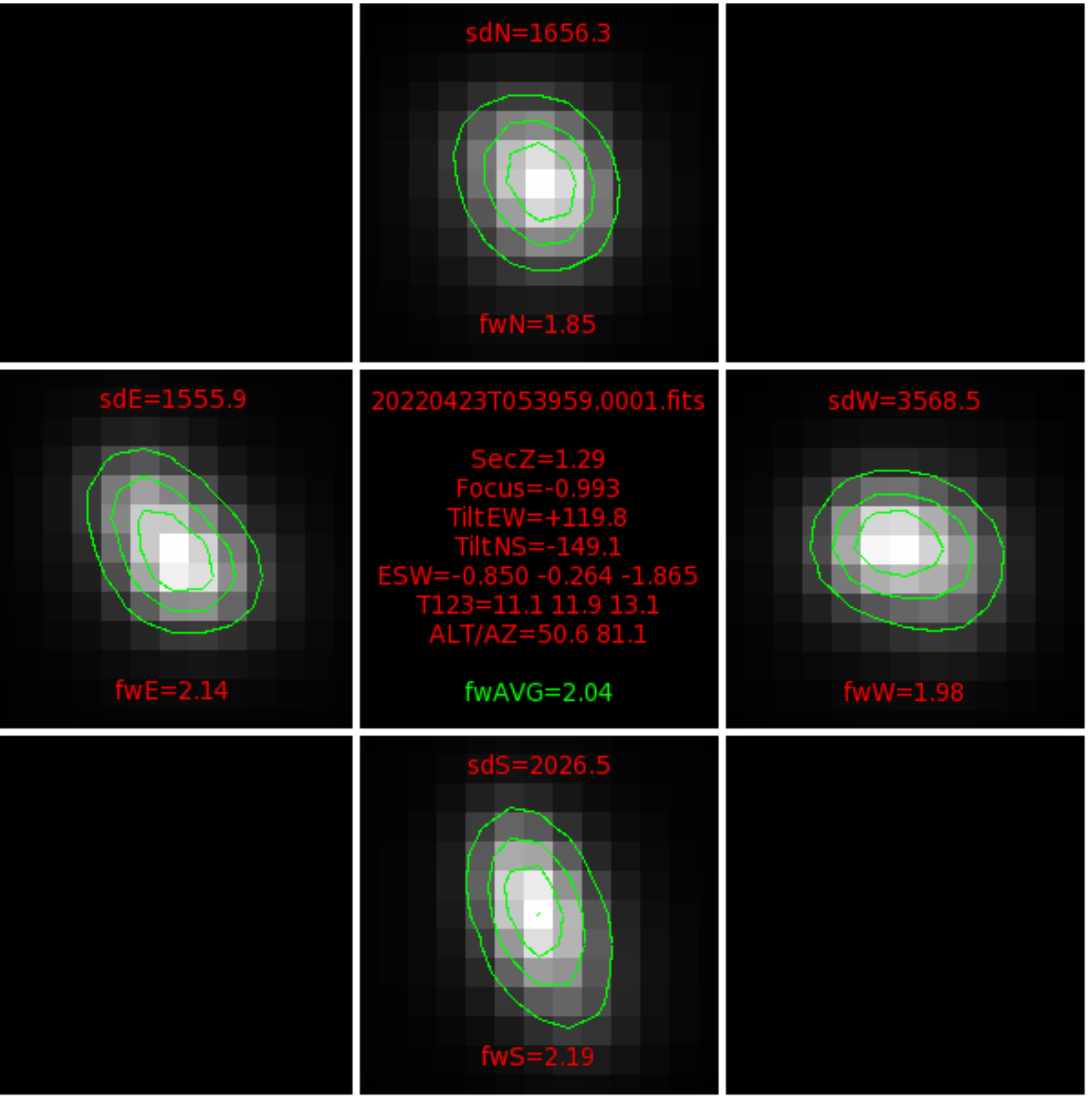
sdN=1656.3
fwN=1.85
sdE=1555.9
fwE=2.14
20220423T053959.0001.fits
SecZ=1.29
Focus=-0.993
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.850 -0.264 -1.865
T123=11.1 11.9 13.1
ALT/AZ=50.6 81.1
fwAVG=2.04
sdW=3568.5
fwW=1.98
sdS=2026.5
fwS=2.19
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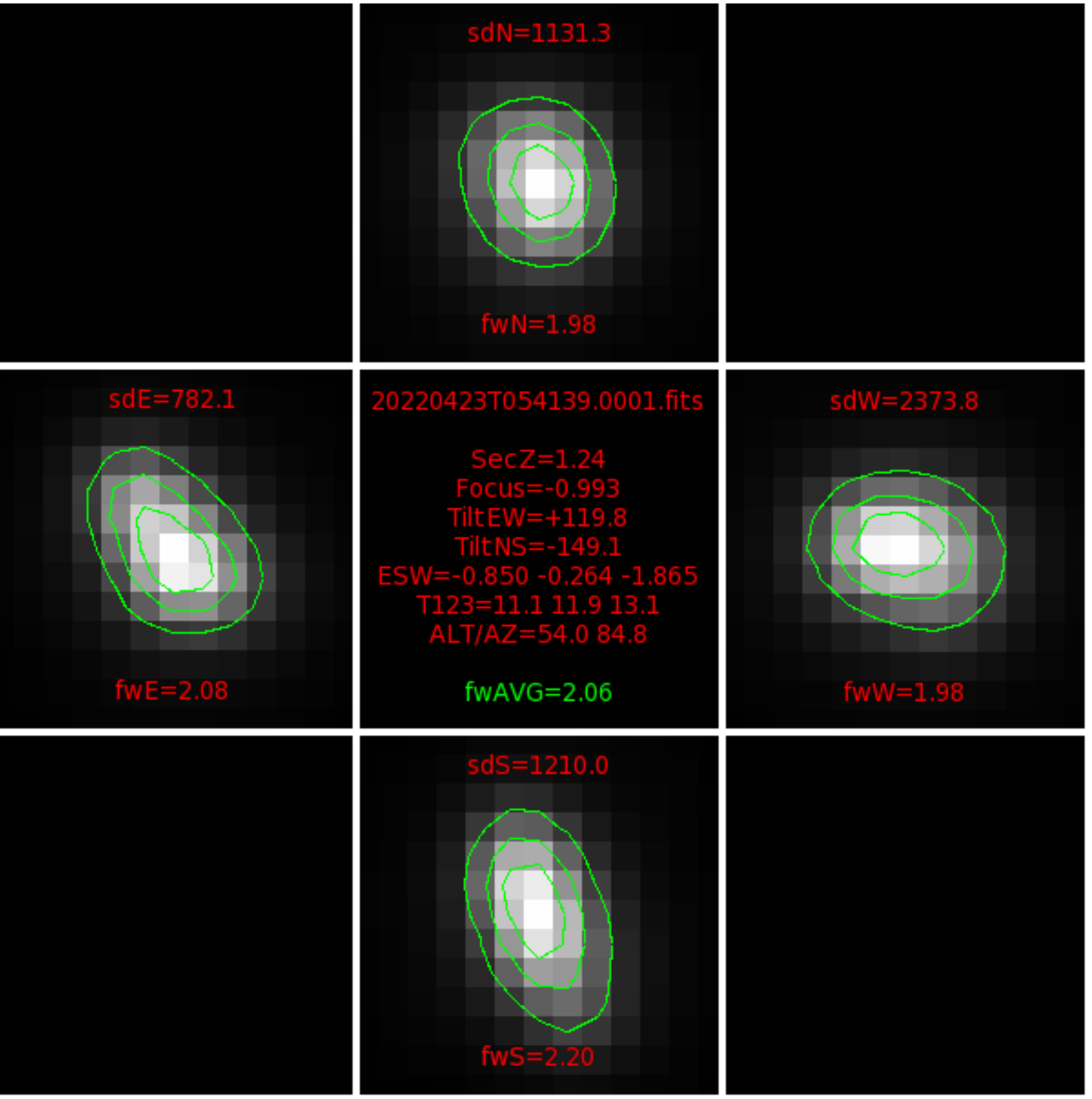
sdN=1131.3
fwN=1.98
sdE=782.1
fwE=2.08
20220423T054139.0001.fits
SecZ=1.24
Focus=-0.993
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.850 -0.264 -1.865
T123=11.1 11.9 13.1
ALT/AZ=54.0 84.8
fwAVG=2.06
sdW=2373.8
fwW=1.98
sdS=1210.0
fwS=2.20
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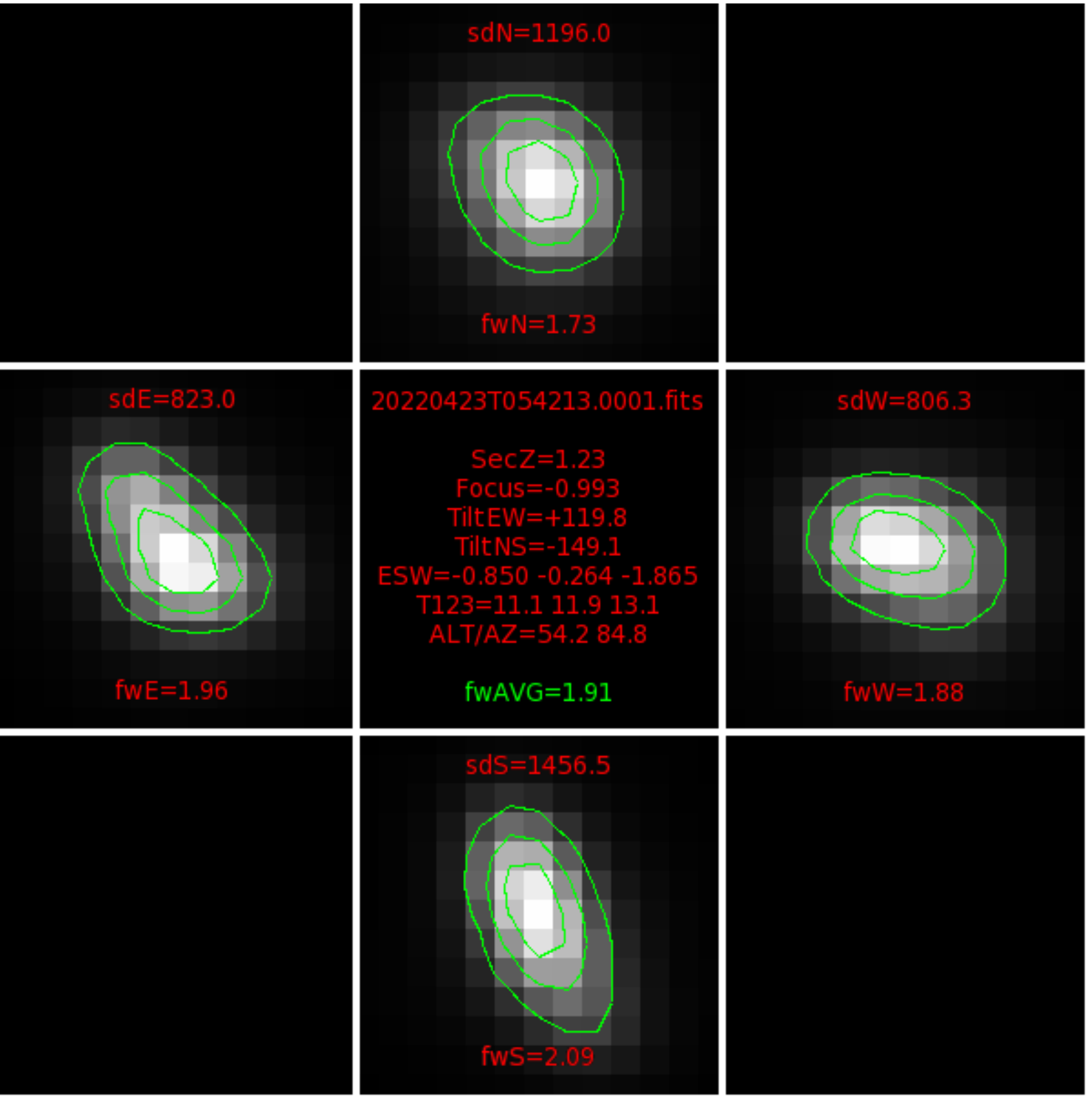
sdN=1196.0
fwN=1.73
sdE=823.0
fwE=1.96
20220423T054213.0001.fits
SecZ=1.23
Focus=-0.993
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.850 -0.264 -1.865
T123=11.1 11.9 13.1
ALT/AZ=54.2 84.8
fwAVG=1.91
sdW=806.3
fwW=1.88
sdS=1456.5
fwS=2.09
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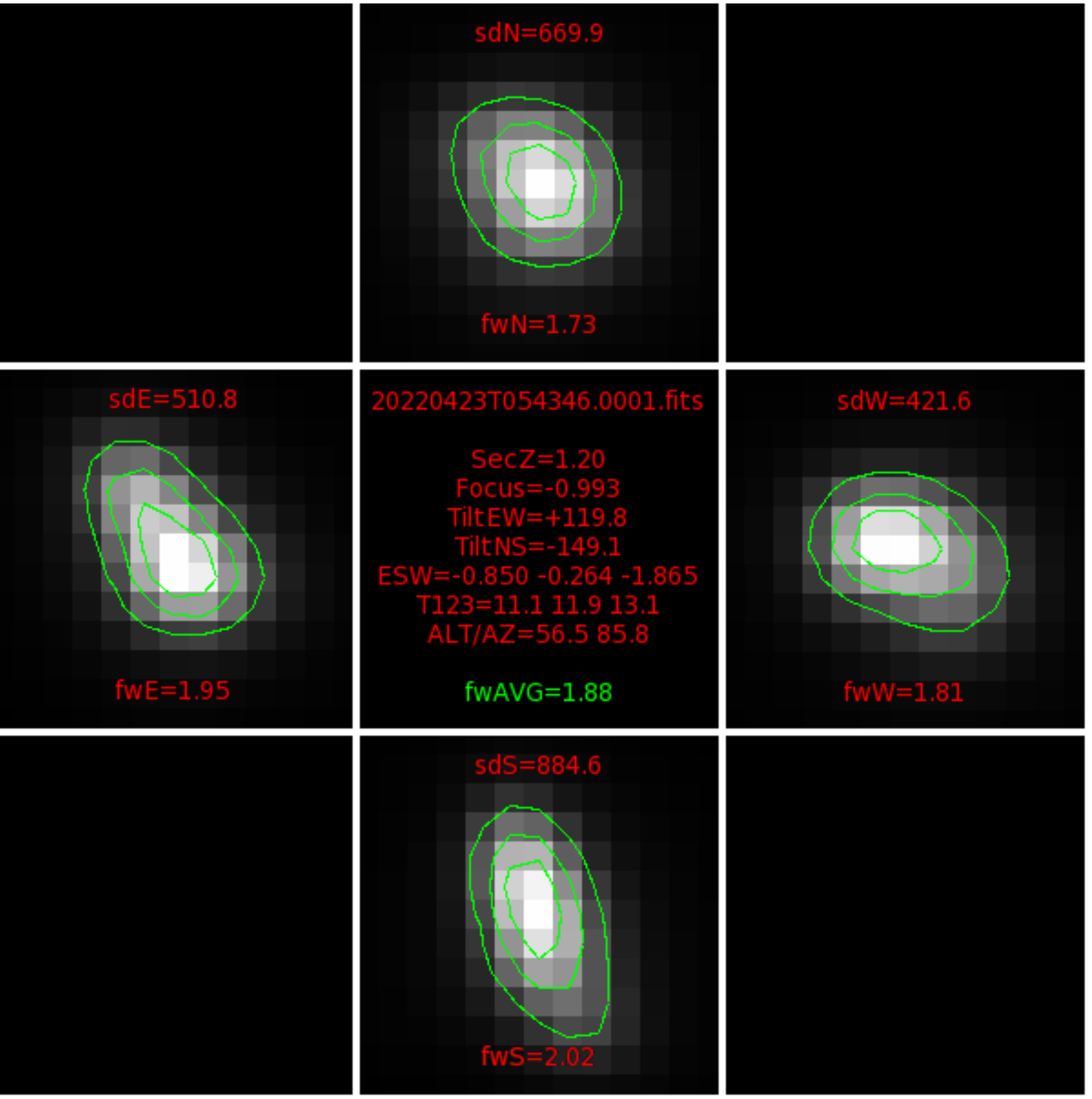
sdN=669.9
fwN=1.73
sdE=510.8
fwE=1.95
20220423T054346.0001.fits
SecZ=1.20
Focus=-0.993
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.850 -0.264 -1.865
T123=11.1 11.9 13.1
ALT/AZ=56.5 85.8
fwAVG=1.88
sdW=421.6
fwW=1.81
sdS=884.6
fwS=2.02
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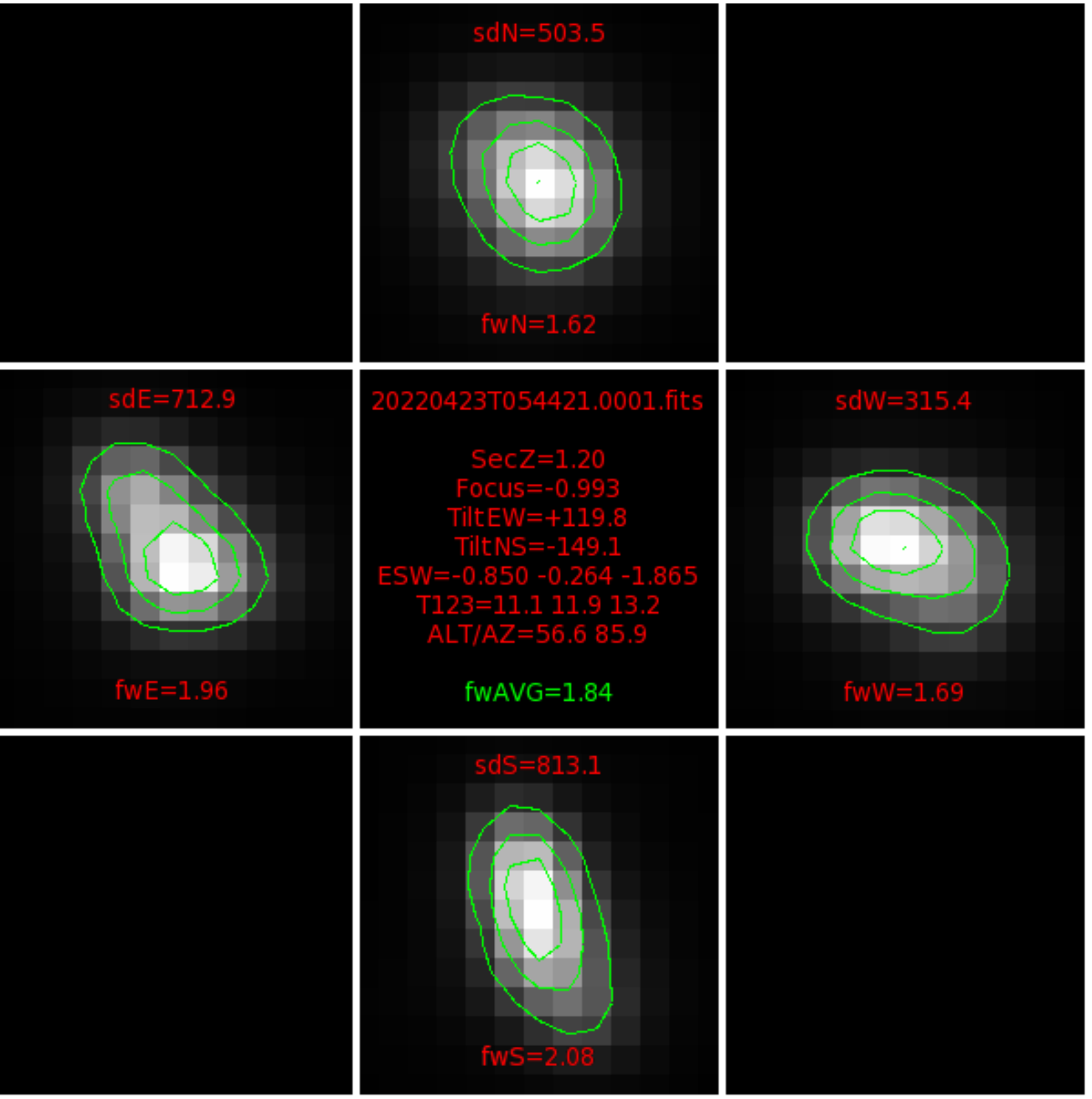
sdN=503.5
fwN=1.62
sdE=712.9
fwE=1.96
20220423T054421.0001.fits
SecZ=1.20
Focus=-0.993
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.850 -0.264 -1.865
T123=11.1 11.9 13.2
ALT/AZ=56.6 85.9
fwAVG=1.84
sdW=315.4
fwW=1.69
sdS=813.1
fwS=2.08
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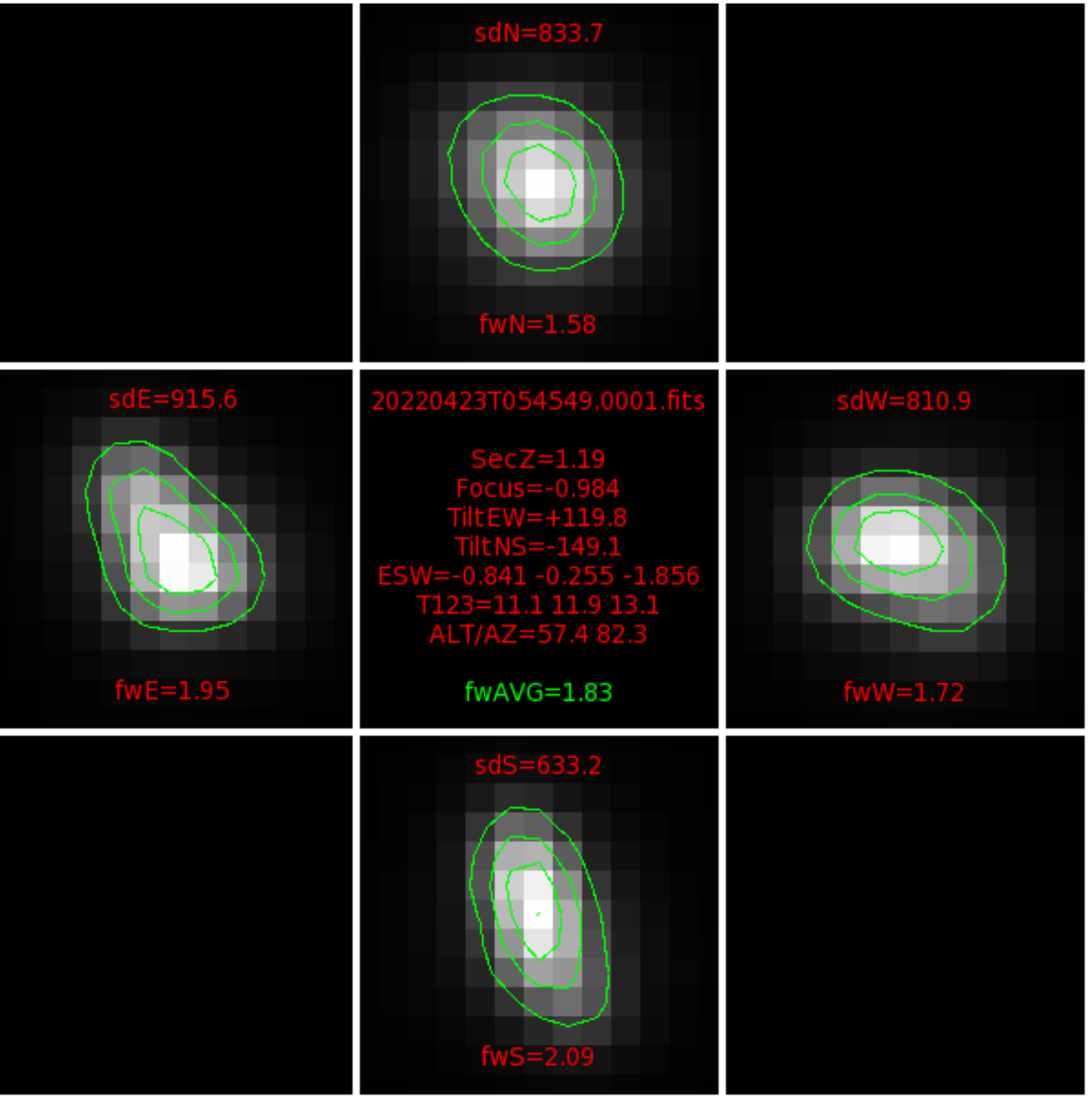
sdN=833.7
fwN=1.58
sdE=915.6
fwE=1.95
20220423T054549.0001.fits
SecZ=1.19
Focus=-0.984
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.841 -0.255 -1.856
T123=11.1 11.9 13.1
ALT/AZ=57.4 82.3
fwAVG=1.83
sdW=810.9
fwW=1.72
sdS=633.2
fwS=2.09
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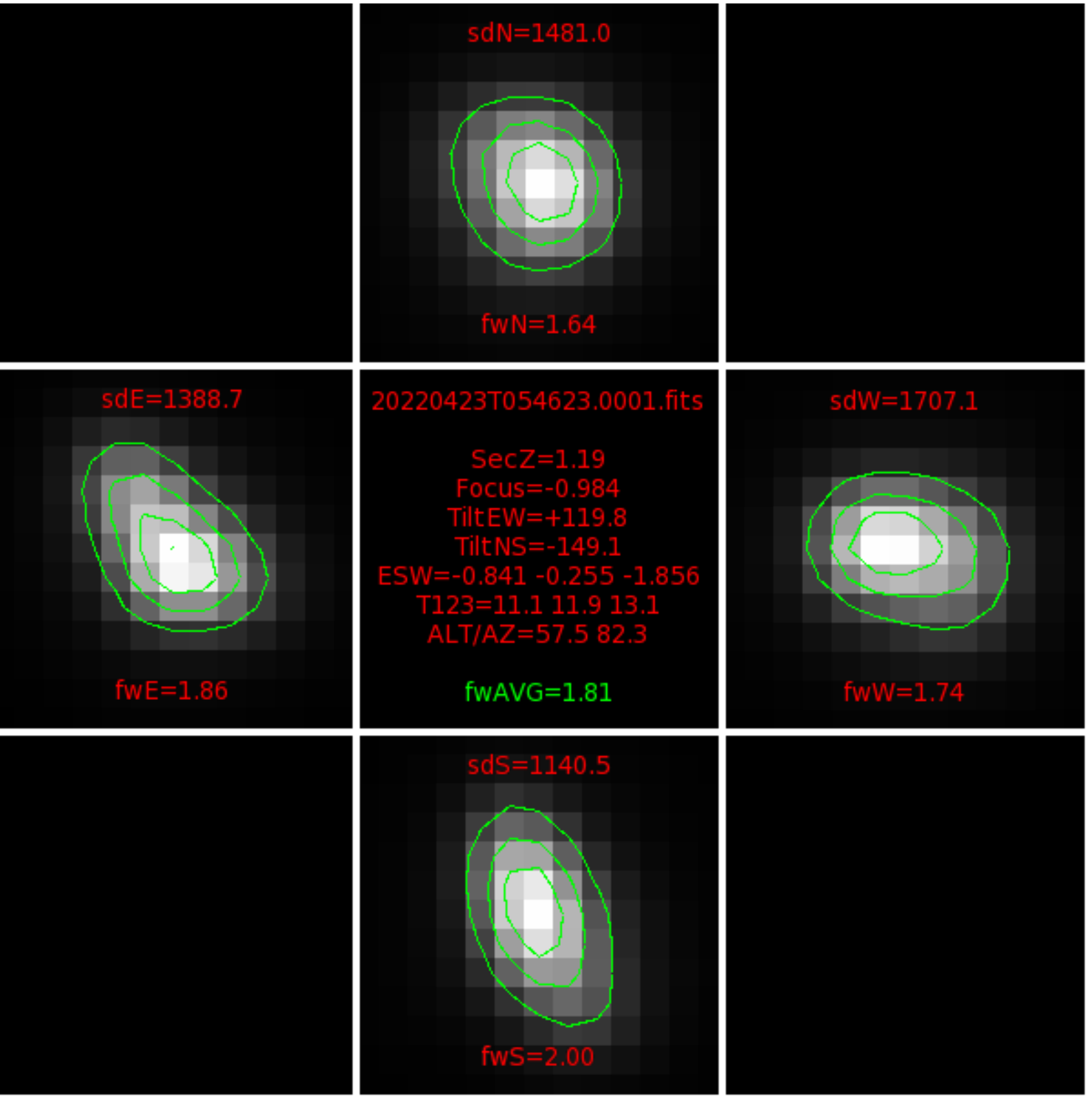
sdN=1481.0
fwN=1.64
sdE=1388.7
fwE=1.86
20220423T054623.0001.fits
SecZ=1.19
Focus=-0.984
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.841 -0.255 -1.856
T123=11.1 11.9 13.1
ALT/AZ=57.5 82.3
fwAVG=1.81
sdW=1707.1
fwW=1.74
sdS=1140.5
fwS=2.00
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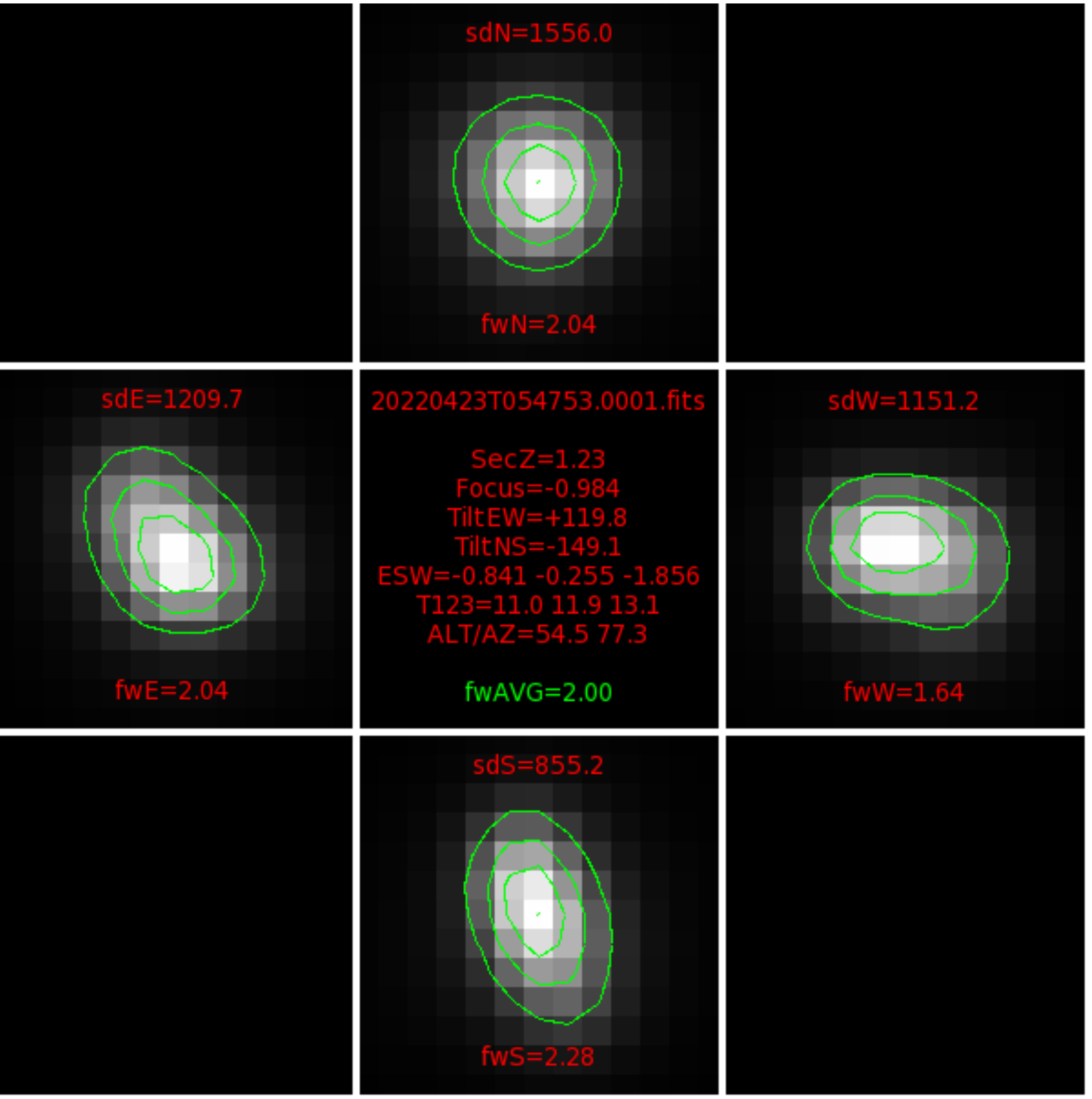
sdN=1556.0
fwN=2.04
sdE=1209.7
fwE=2.04
20220423T054753.0001.fits
SecZ=1.23
Focus=-0.984
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.841 -0.255 -1.856
T123=11.0 11.9 13.1
ALT/AZ=54.5 77.3
fwAVG=2.00
sdW=1151.2
fwW=1.64
sdS=855.2
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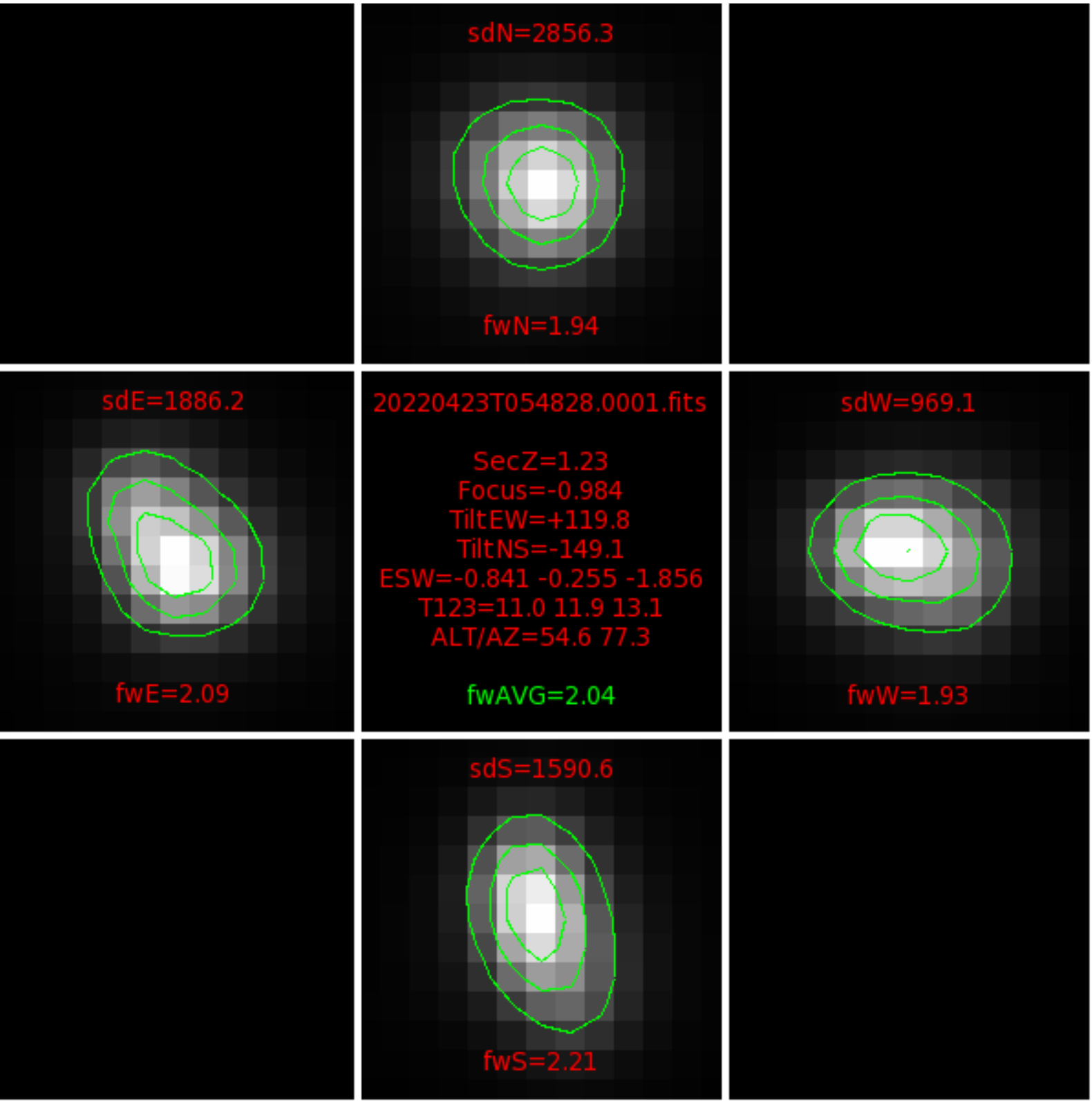
sdN=2856.3
fwN=1.94
sdE=1886.2
fwE=2.09
20220423T054828.0001.fits
SecZ=1.23
Focus=-0.984
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.841 -0.255 -1.856
T123=11.0 11.9 13.1
ALT/AZ=54.6 77.3
fwAVG=2.04
sdW=969.1
fwW=1.93
sdS=1590.6
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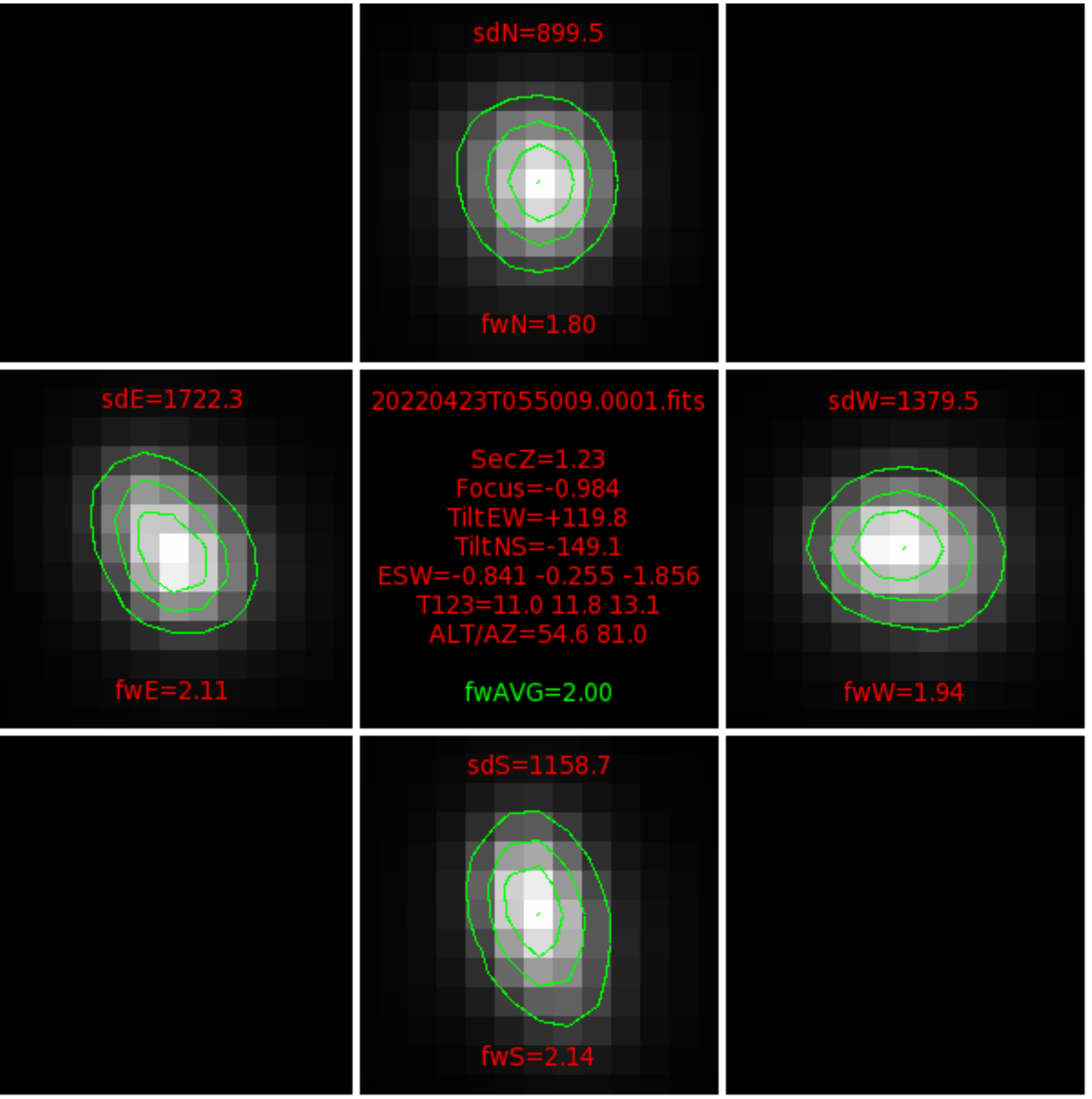
sdN=899.5
fwN=1.80
sdE=1722.3
fwE=2.11
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SecZ=1.23
Focus=-0.984
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.841 -0.255 -1.856
T123=11.0 11.8 13.1
ALT/AZ=54.6 81.0
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sdW=1379.5
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sdS=1158.7
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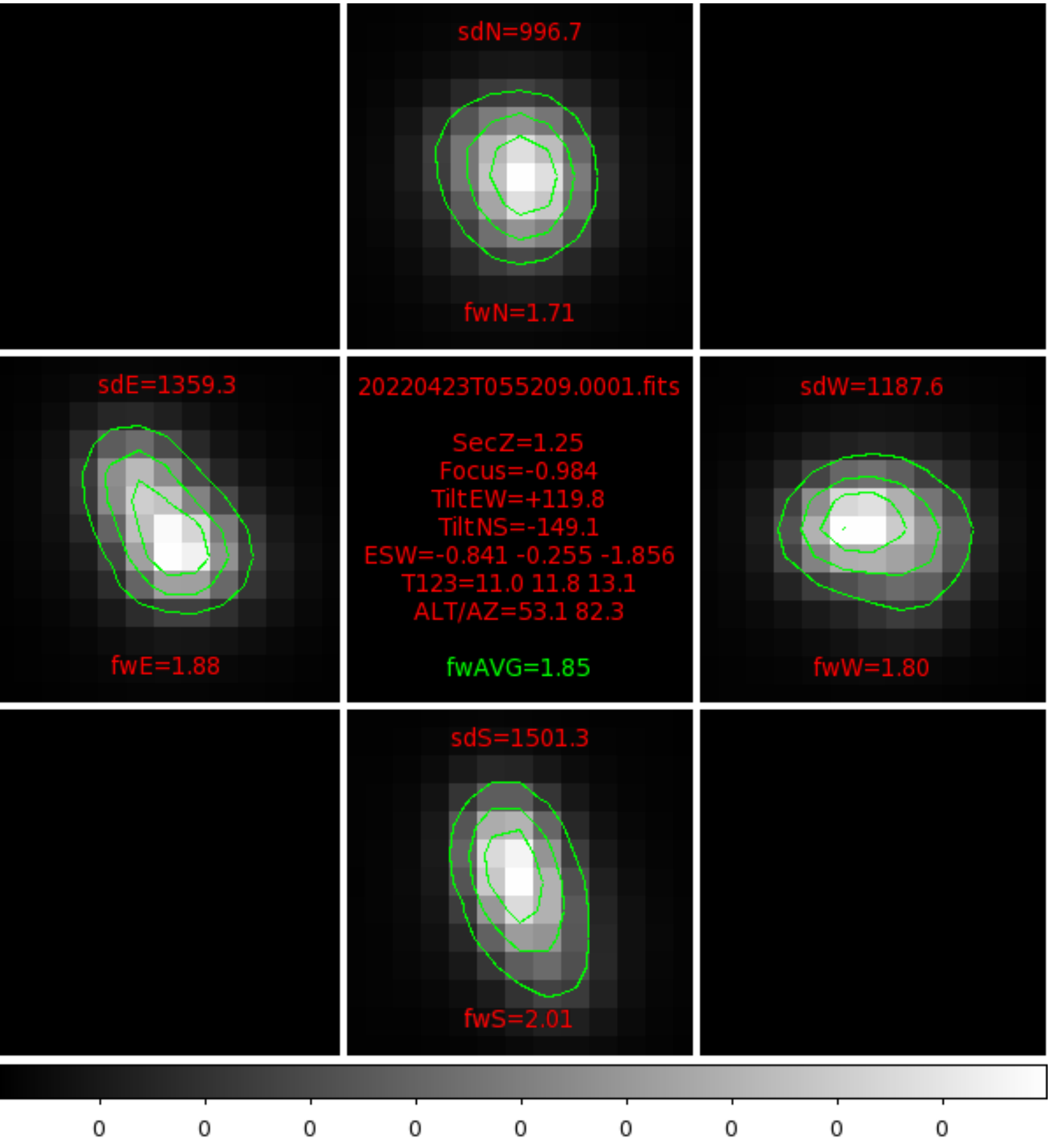
sdN=996.7
fwN=1.71
sdE=1359.3
fwE=1.88
20220423T055209.0001.fits
SecZ=1.25
Focus=-0.984
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.841 -0.255 -1.856
T123=11.0 11.8 13.1
ALT/AZ=53.1 82.3
fwAVG=1.85
sdW=1187.6
fwW=1.80
sdS=1501.3
fwS=2.01
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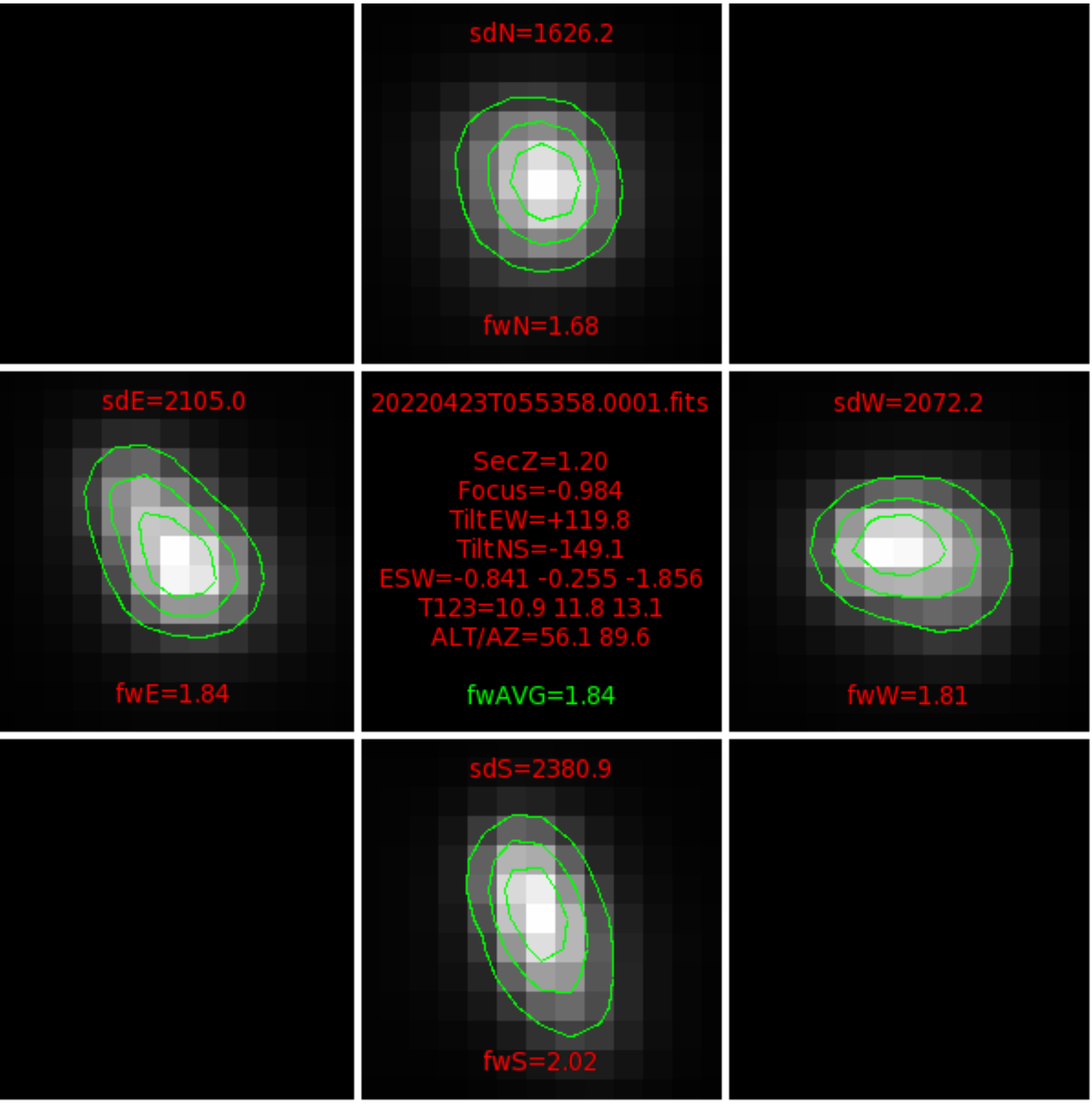
sdN=1626.2
fwN=1.68
sdE=2105.0
fwE=1.84
20220423T055358.0001.fits
SecZ=1.20
Focus=-0.984
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.841 -0.255 -1.856
T123=10.9 11.8 13.1
ALT/AZ=56.1 89.6
fwAVG=1.84
sdW=2072.2
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sdS=2380.9
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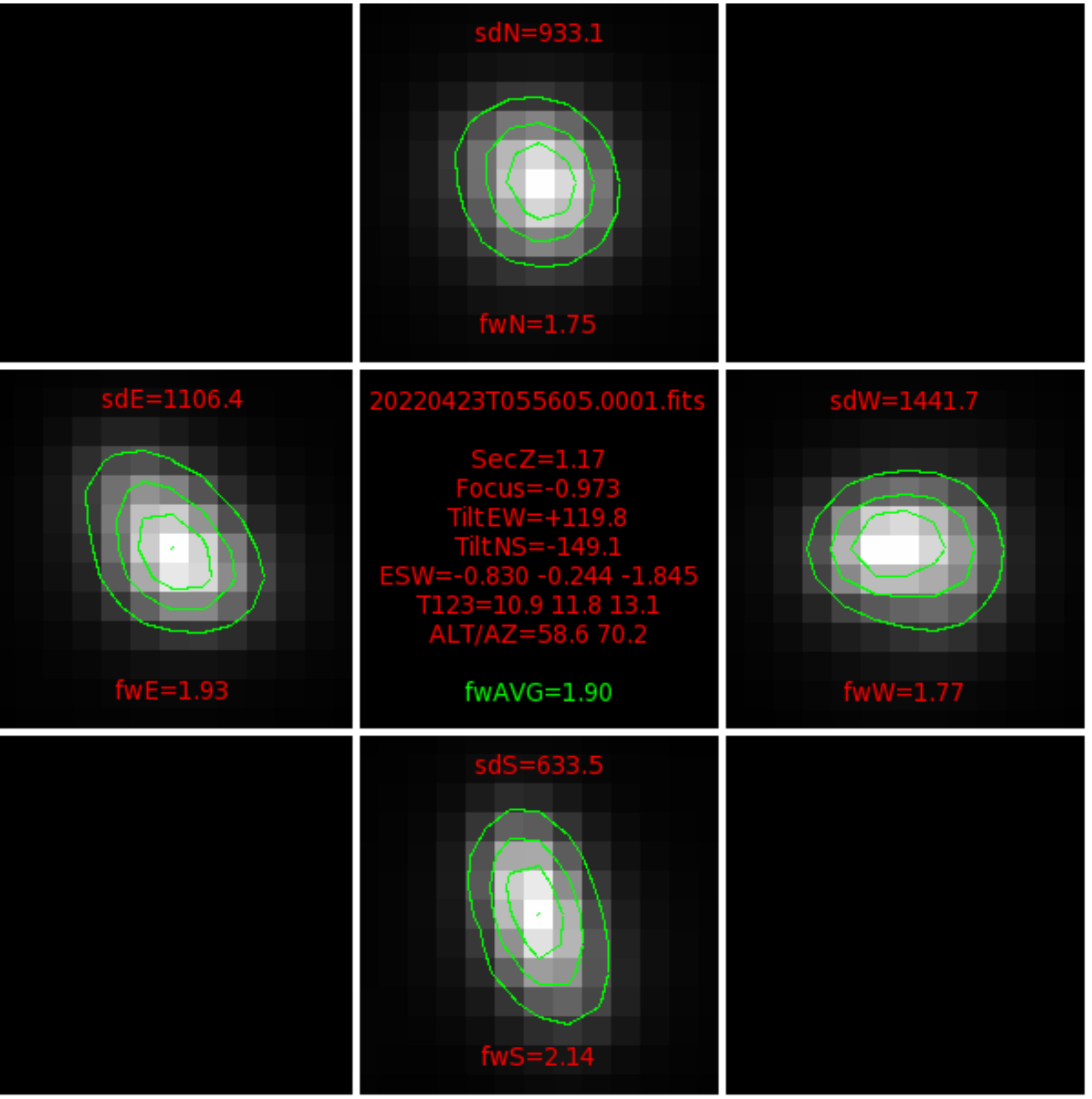
sdN=933.1
fwN=1.75
sdE=1106.4
fwE=1.93
20220423T055605.0001.fits
SecZ=1.17
Focus=-0.973
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.830 -0.244 -1.845
T123=10.9 11.8 13.1
ALT/AZ=58.6 70.2
fwAVG=1.90
sdW=1441.7
fwW=1.77
sdS=633.5
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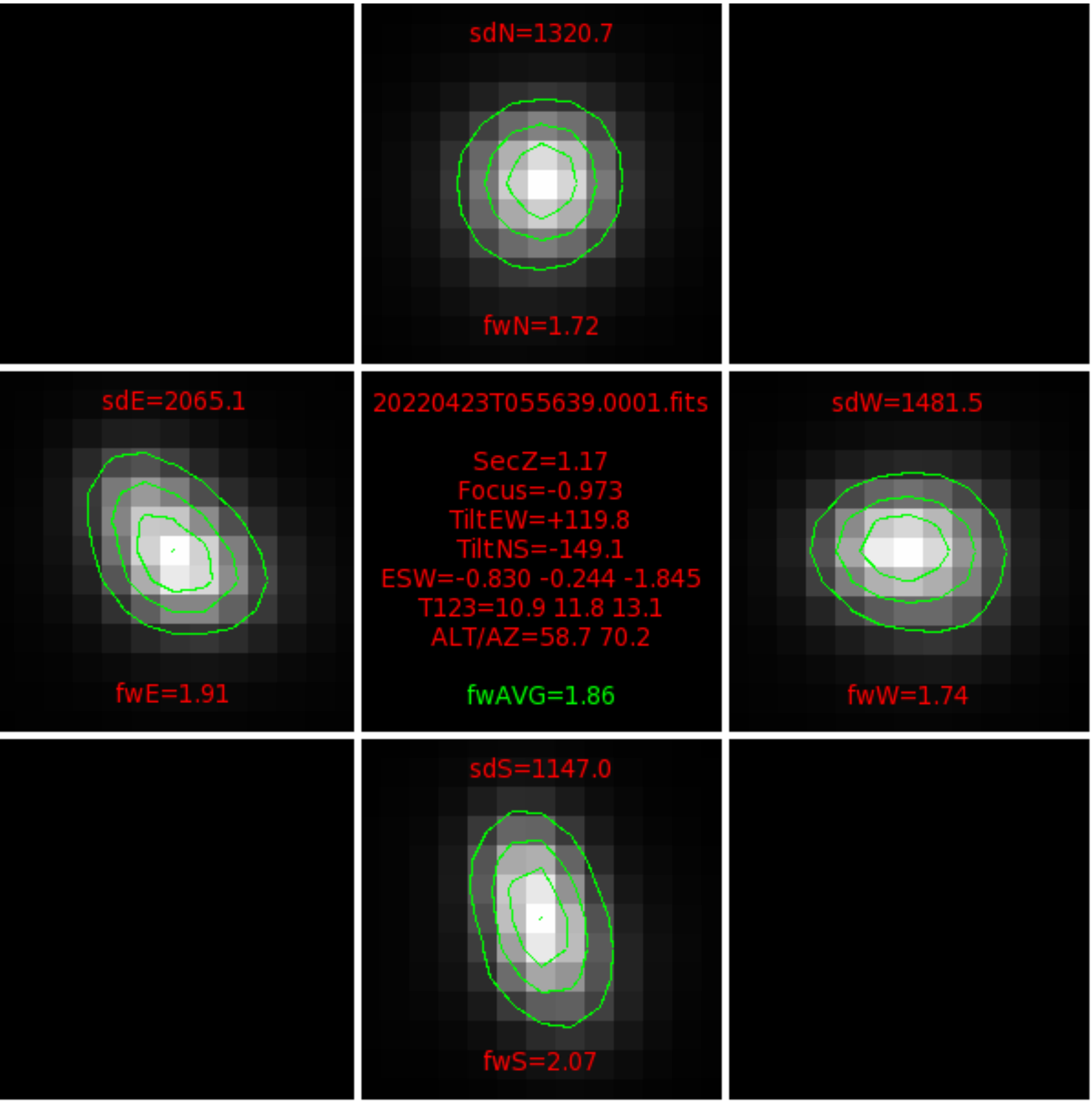
sdN=1320.7
fwN=1.72
sdE=2065.1
fwE=1.91
20220423T055639.0001.fits
SecZ=1.17
Focus=-0.973
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.830 -0.244 -1.845
T123=10.9 11.8 13.1
ALT/AZ=58.7 70.2
fwAVG=1.86
sdW=1481.5
fwW=1.74
sdS=1147.0
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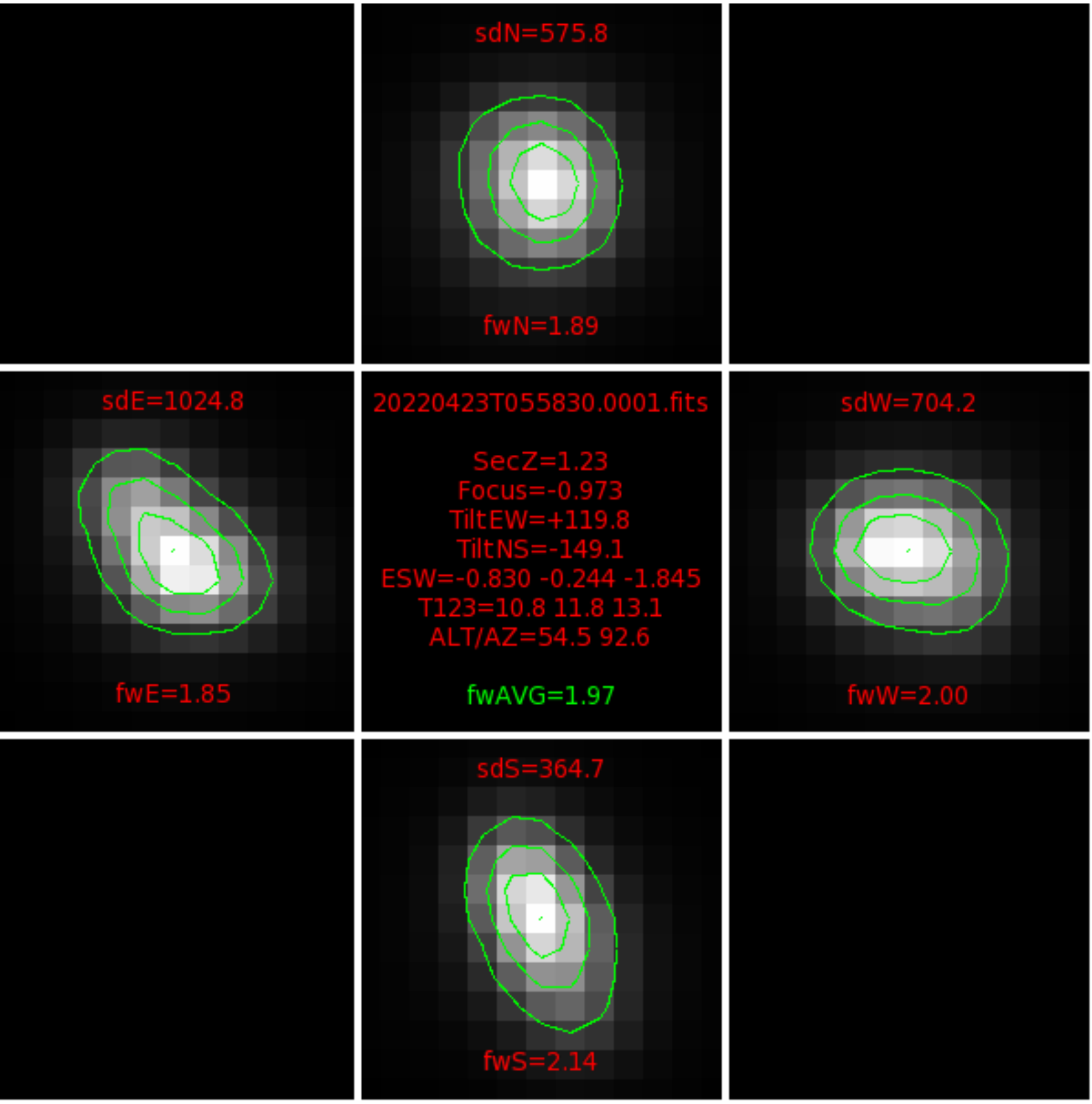
sdN=575.8
fwN=1.89
sdE=1024.8
fwE=1.85
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SecZ=1.23
Focus=-0.973
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.830 -0.244 -1.845
T123=10.8 11.8 13.1
ALT/AZ=54.5 92.6
fwAVG=1.97
sdW=704.2
fwW=2.00
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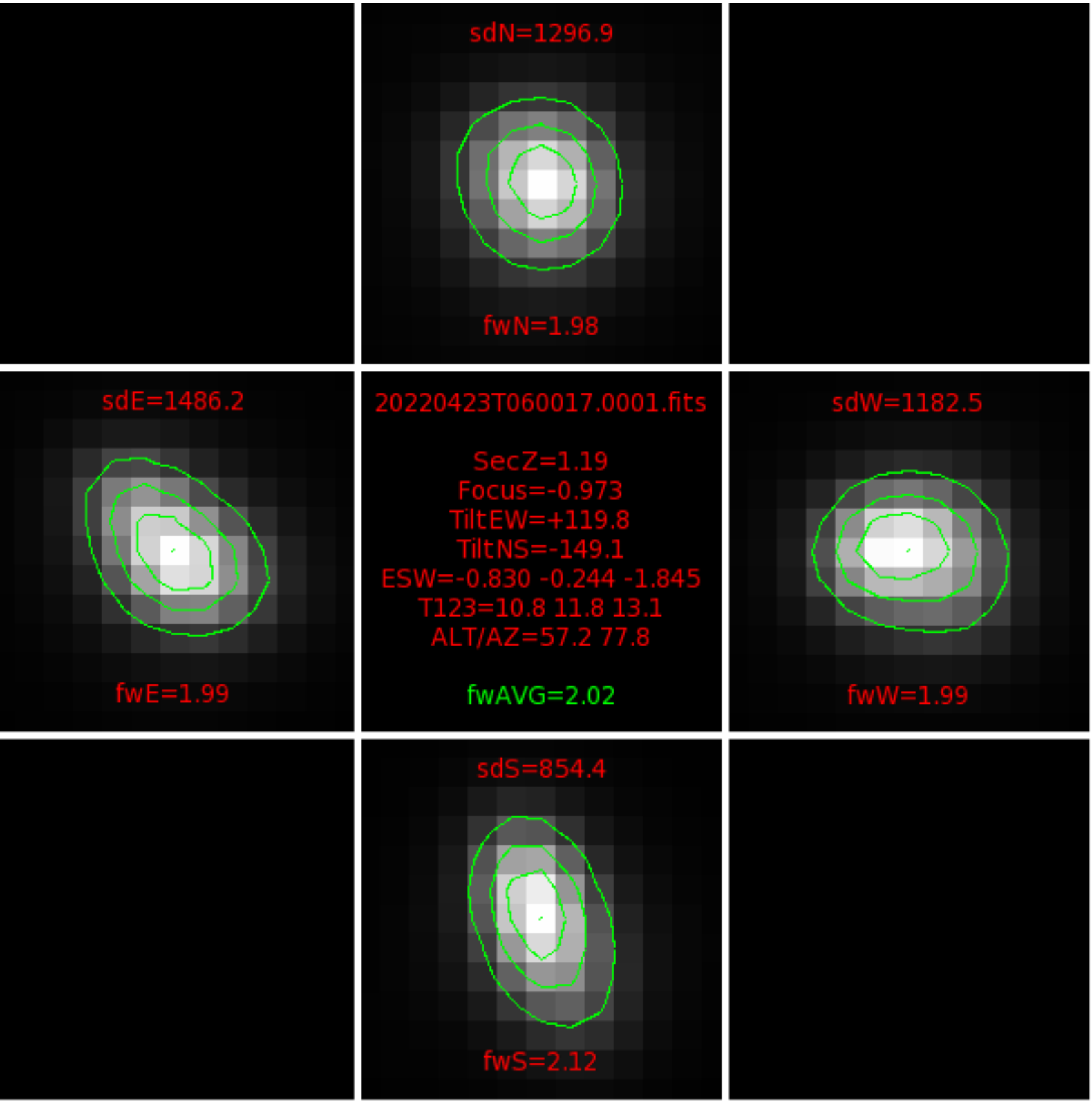
sdN=1296.9
fwN=1.98
sdE=1486.2
fwE=1.99
20220423T060017.0001.fits
SecZ=1.19
Focus=-0.973
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.830 -0.244 -1.845
T123=10.8 11.8 13.1
ALT/AZ=57.2 77.8
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sdW=1182.5
fwW=1.99
sdS=854.4
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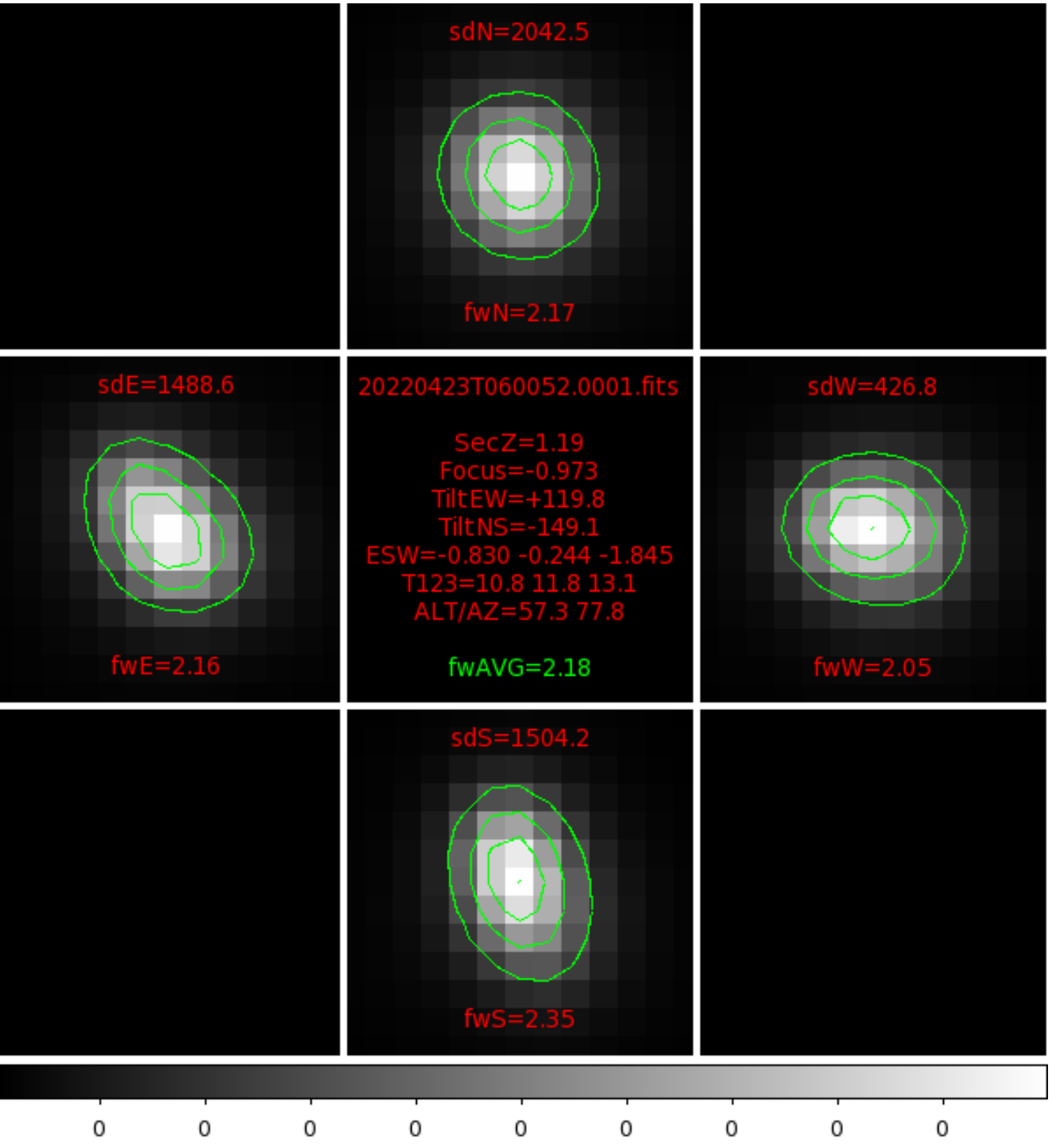
sdN=2042.5
fwN=2.17
sdE=1488.6
fwE=2.16
20220423T060052.0001.fits
SecZ=1.19
Focus=-0.973
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.830 -0.244 -1.845
T123=10.8 11.8 13.1
ALT/AZ=57.3 77.8
fwAVG=2.18
sdW=426.8
fwW=2.05
sdS=1504.2
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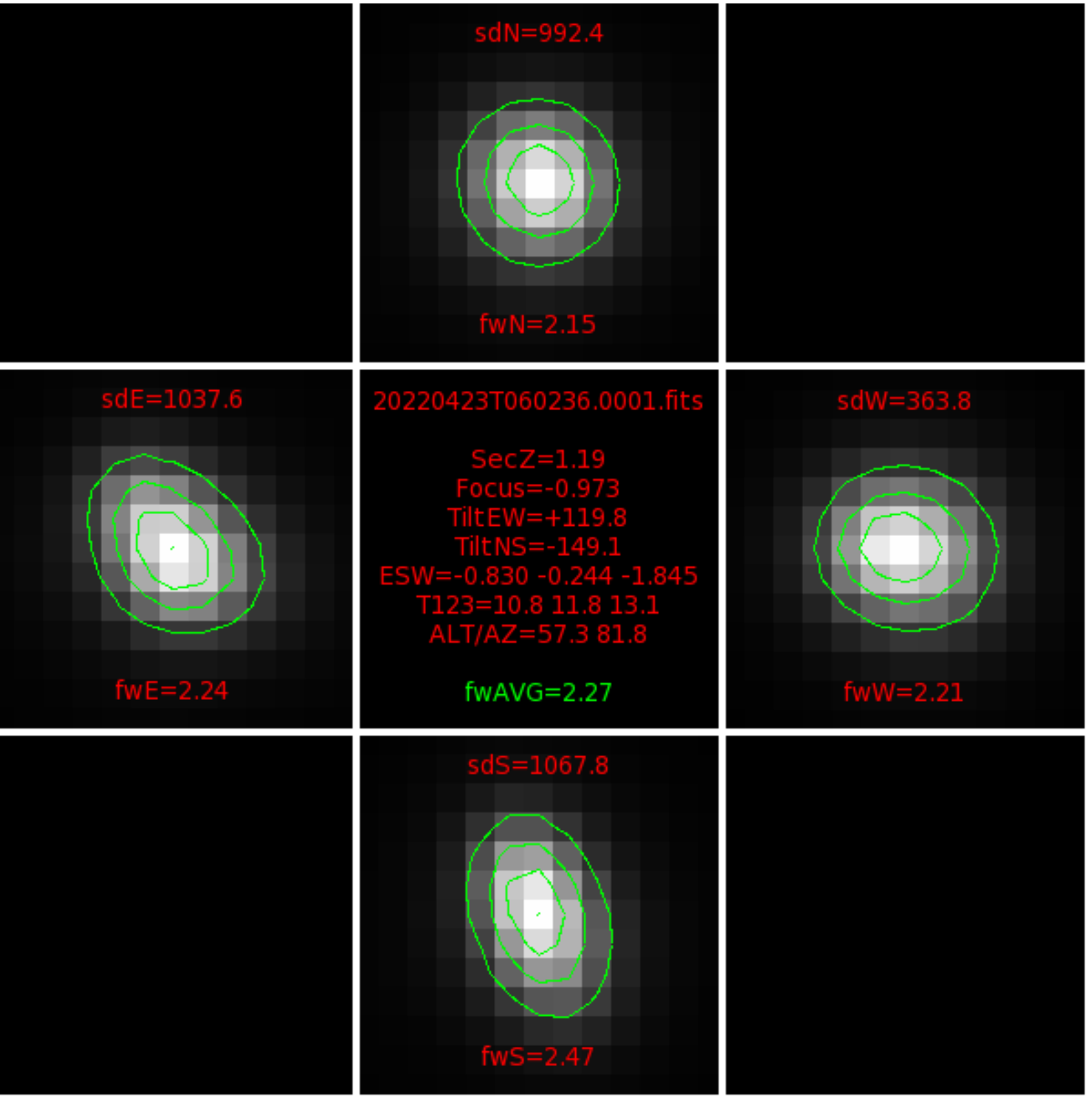
sdN=992.4
fwN=2.15
sdE=1037.6
fwE=2.24
20220423T060236.0001.fits
SecZ=1.19
Focus=-0.973
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.830 -0.244 -1.845
T123=10.8 11.8 13.1
ALT/AZ=57.3 81.8
fwAVG=2.27
sdW=363.8
fwW=2.21
sdS=1067.8
fwS=2.47
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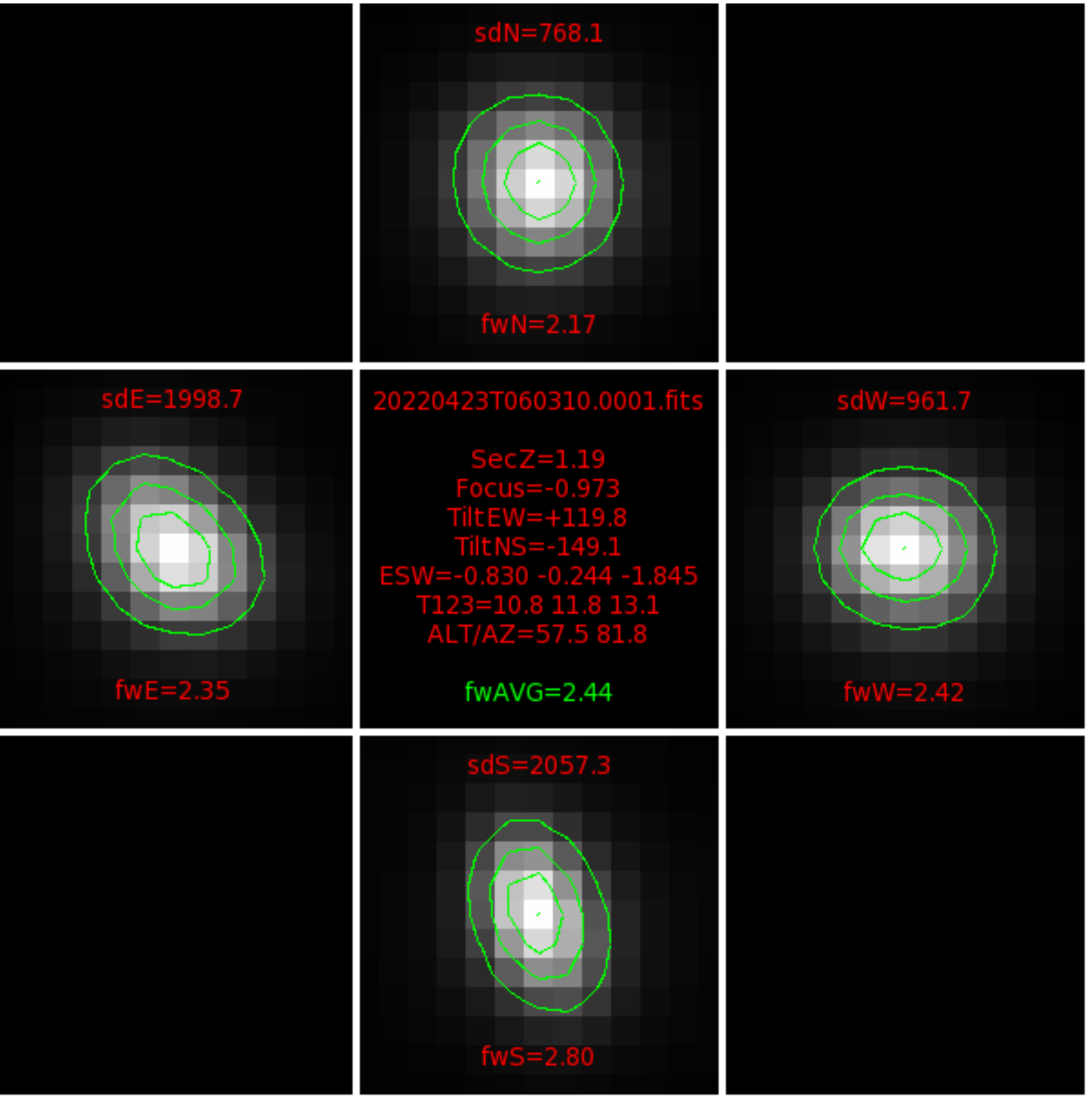
sdN=768.1
fwN=2.17
sdE=1998.7
fwE=2.35
20220423T060310.0001.fits
SecZ=1.19
Focus=-0.973
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.830 -0.244 -1.845
T123=10.8 11.8 13.1
ALT/AZ=57.5 81.8
fwAVG=2.44
sdW=961.7
fwW=2.42
sdS=2057.3
fwS=2.80
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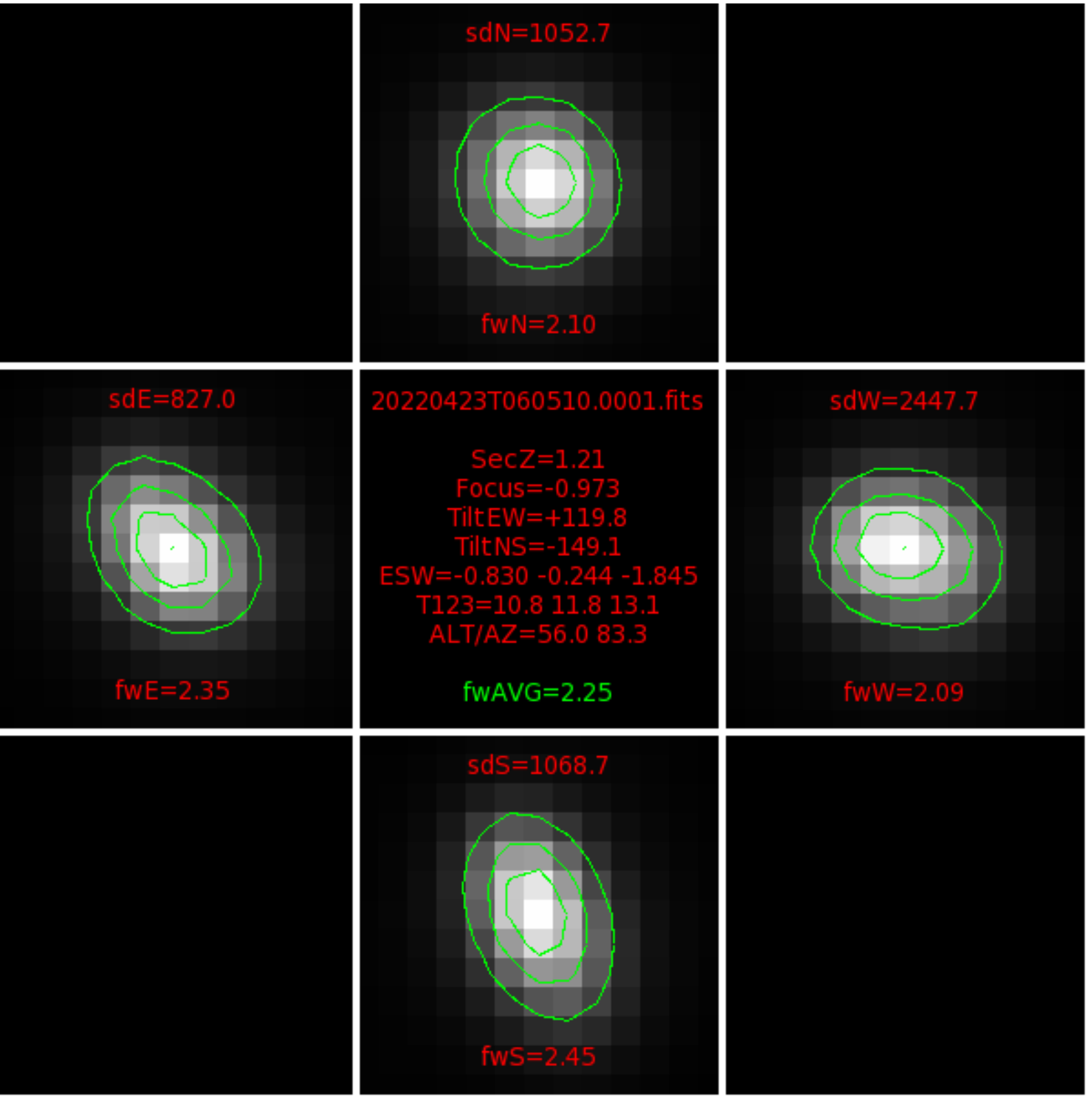
sdN=1052.7
fwN=2.10
sdE=827.0
fwE=2.35
20220423T060510.0001.fits
SecZ=1.21
Focus=-0.973
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.830 -0.244 -1.845
T123=10.8 11.8 13.1
ALT/AZ=56.0 83.3
fwAVG=2.25
sdW=2447.7
fwW=2.09
sdS=1068.7
fwS=2.45
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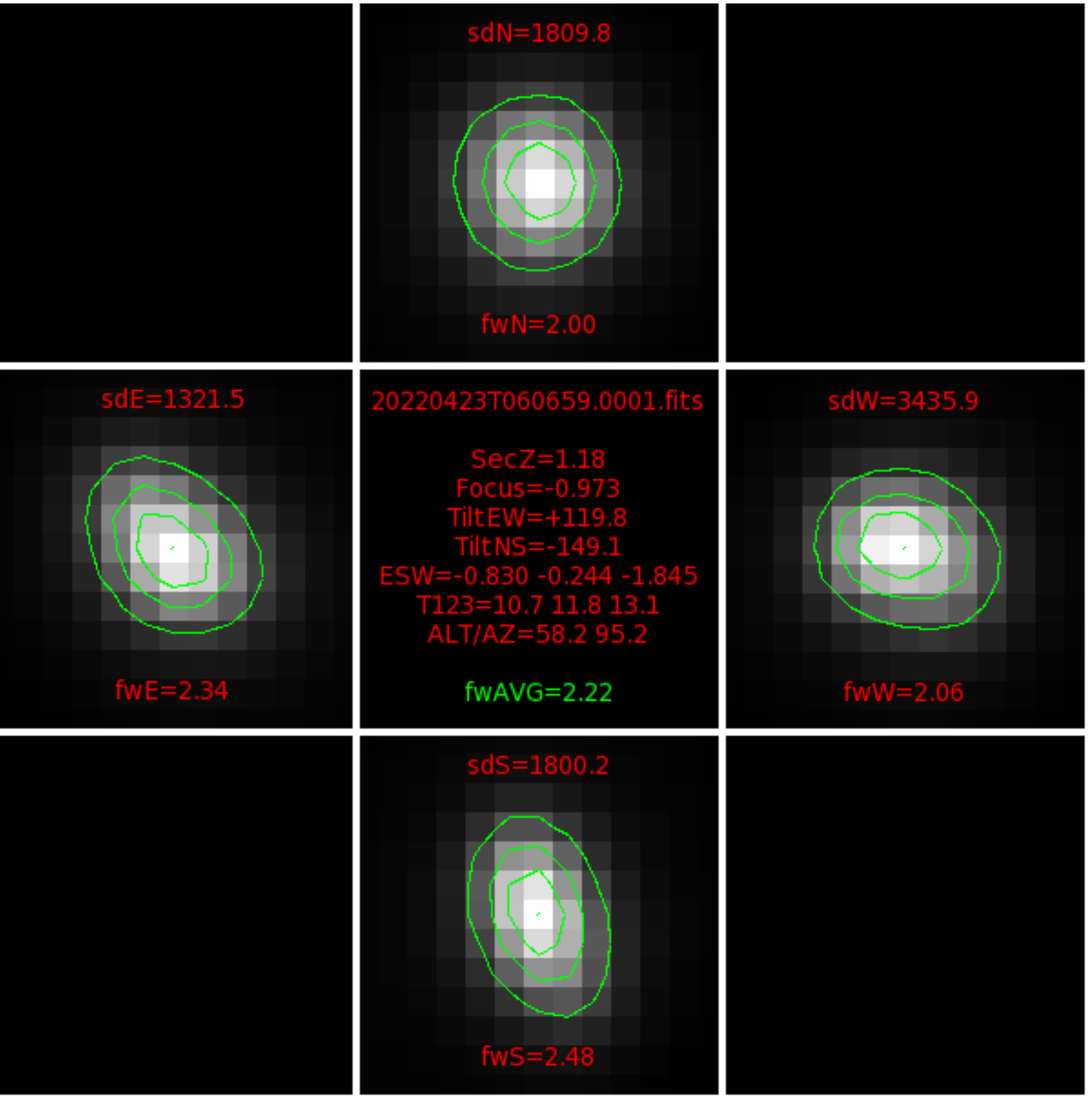
sdN=1809.8
fwN=2.00
sdE=1321.5
fwE=2.34
20220423T060659.0001.fits
SecZ=1.18
Focus=-0.973
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.830 -0.244 -1.845
T123=10.7 11.8 13.1
ALT/AZ=58.2 95.2
fwAVG=2.22
sdW=3435.9
fwW=2.06
sdS=1800.2
fwS=2.48
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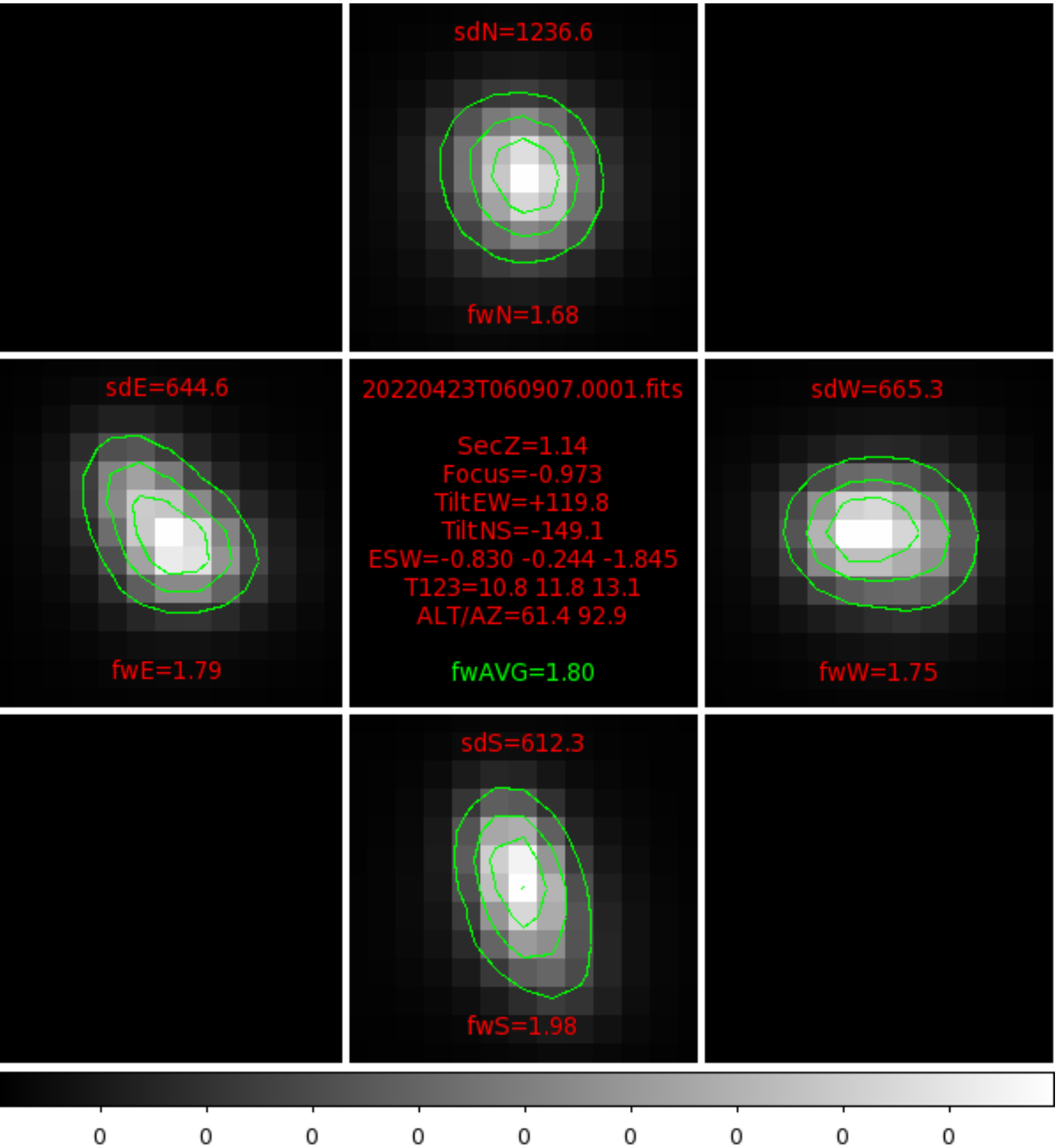
sdN=1236.6
fwN=1.68
sdE=644.6
fwE=1.79
20220423T060907.0001.fits
SecZ=1.14
Focus=-0.973
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.830 -0.244 -1.845
T123=10.8 11.8 13.1
ALT/AZ=61.4 92.9
fwAVG=1.80
sdW=665.3
fwW=1.75
sdS=612.3
fwS=1.98
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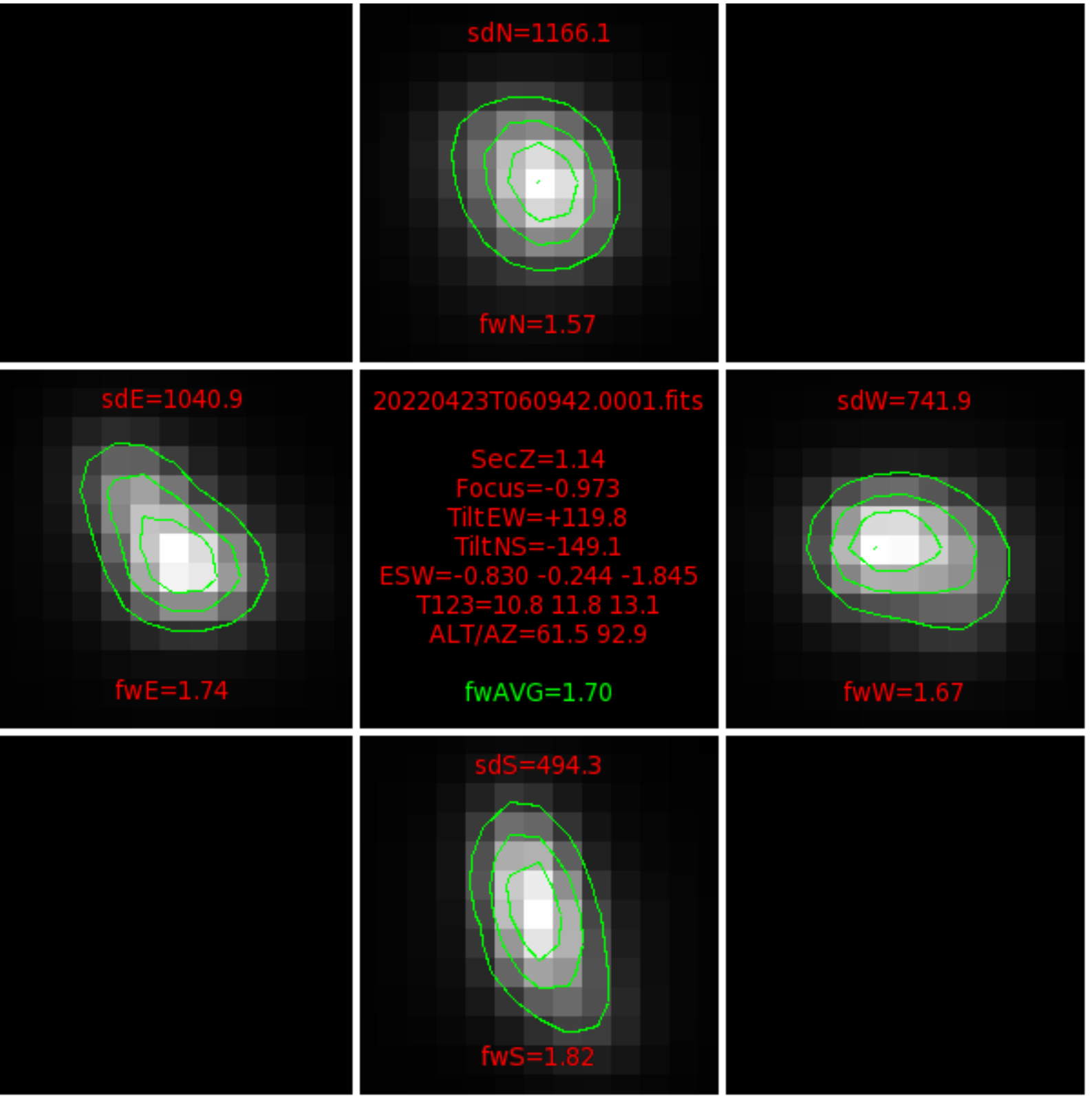
sdN=1166.1
fwN=1.57
sdE=1040.9
fwE=1.74
20220423T060942.0001.fits
SecZ=1.14
Focus=-0.973
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.830 -0.244 -1.845
T123=10.8 11.8 13.1
ALT/AZ=61.5 92.9
fwAVG=1.70
sdW=741.9
fwW=1.67
sdS=494.3
fwS=1.82
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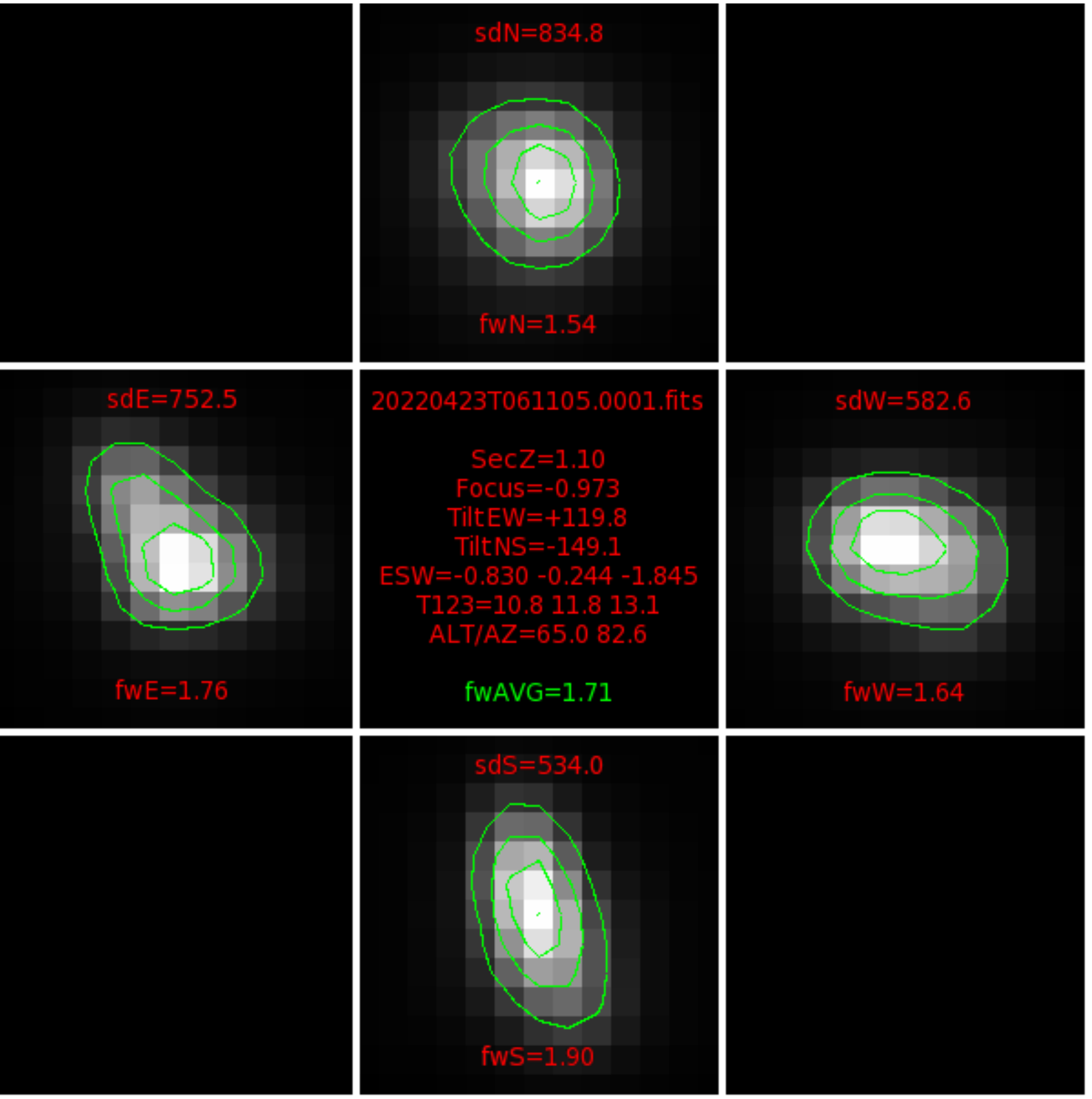
sdN=834.8
fwN=1.54
sdE=752.5
fwE=1.76
20220423T061105.0001.fits
SecZ=1.10
Focus=-0.973
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.830 -0.244 -1.845
T123=10.8 11.8 13.1
ALT/AZ=65.0 82.6
fwAVG=1.71
sdW=582.6
fwW=1.64
sdS=534.0
fwS=1.90
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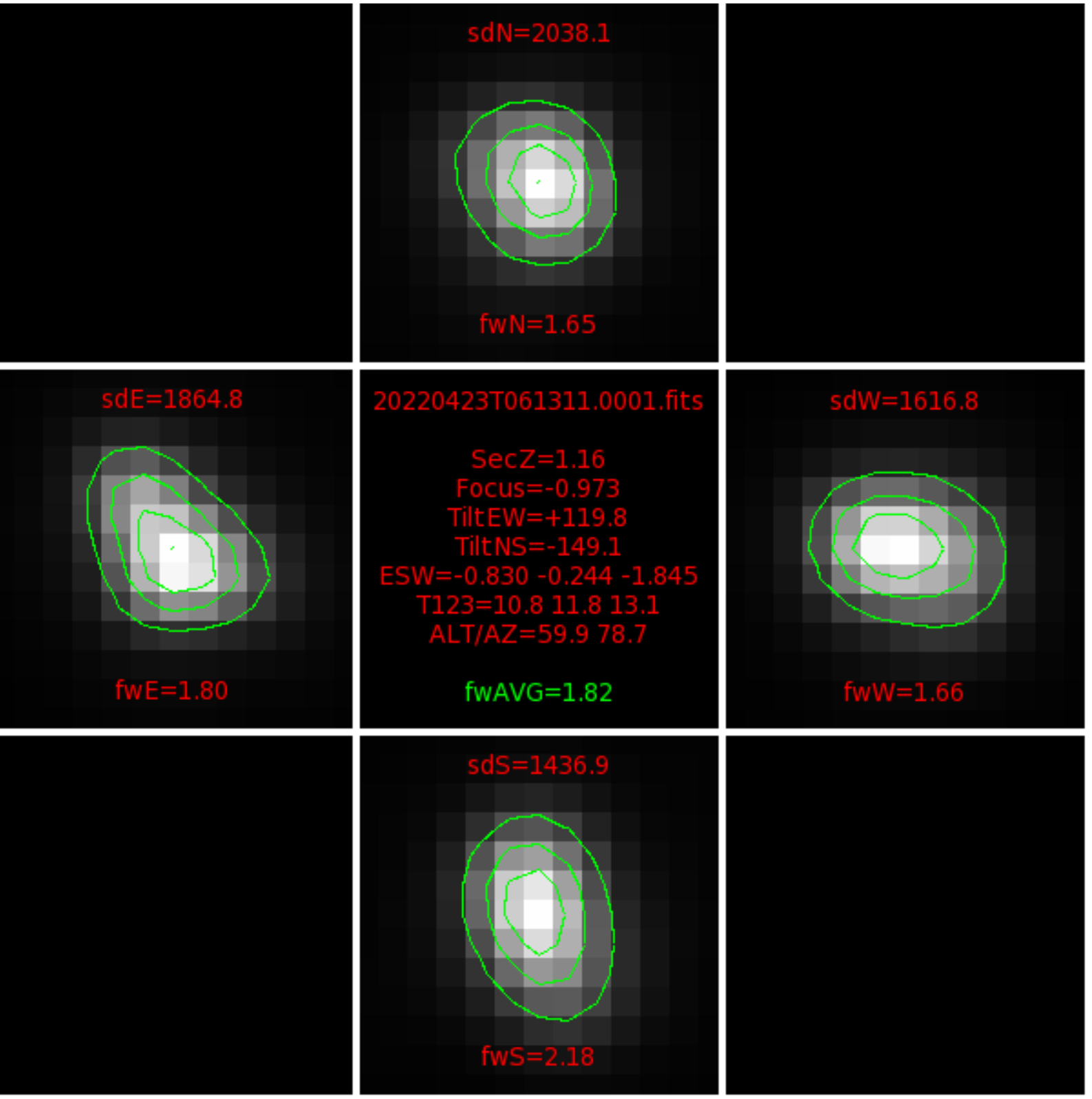
sdN=2038.1
fwN=1.65
sdE=1864.8
fwE=1.80
20220423T061311.0001.fits
SecZ=1.16
Focus=-0.973
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.830 -0.244 -1.845
T123=10.8 11.8 13.1
ALT/AZ=59.9 78.7
fwAVG=1.82
sdW=1616.8
fwW=1.66
sdS=1436.9
fwS=2.18
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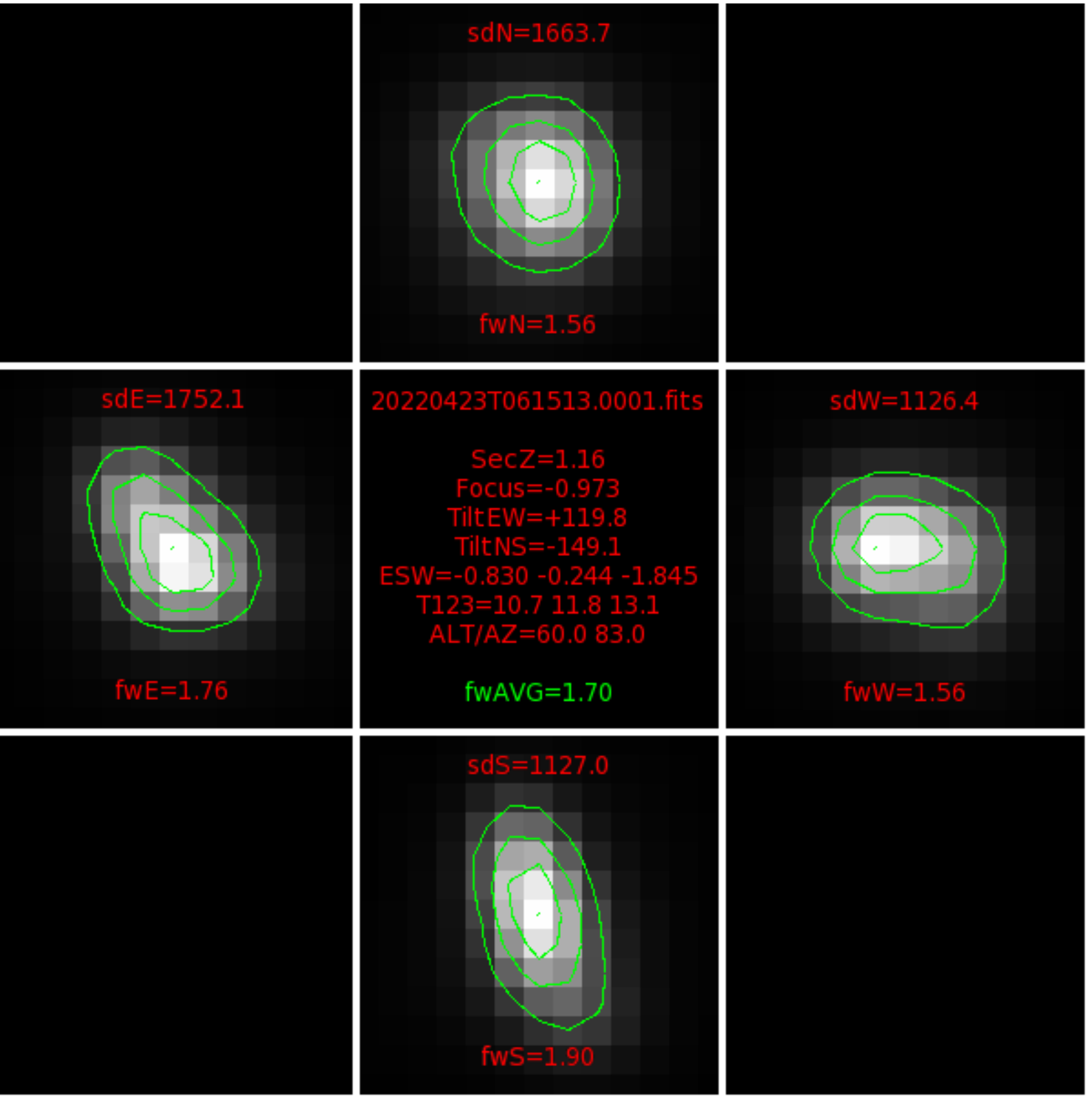
sdN=1663.7
fwN=1.56
sdE=1752.1
fwE=1.76
20220423T061513.0001.fits
SecZ=1.16
Focus=-0.973
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.830 -0.244 -1.845
T123=10.7 11.8 13.1
ALT/AZ=60.0 83.0
fwAVG=1.70
sdW=1126.4
fwW=1.56
sdS=1127.0
fwS=1.90
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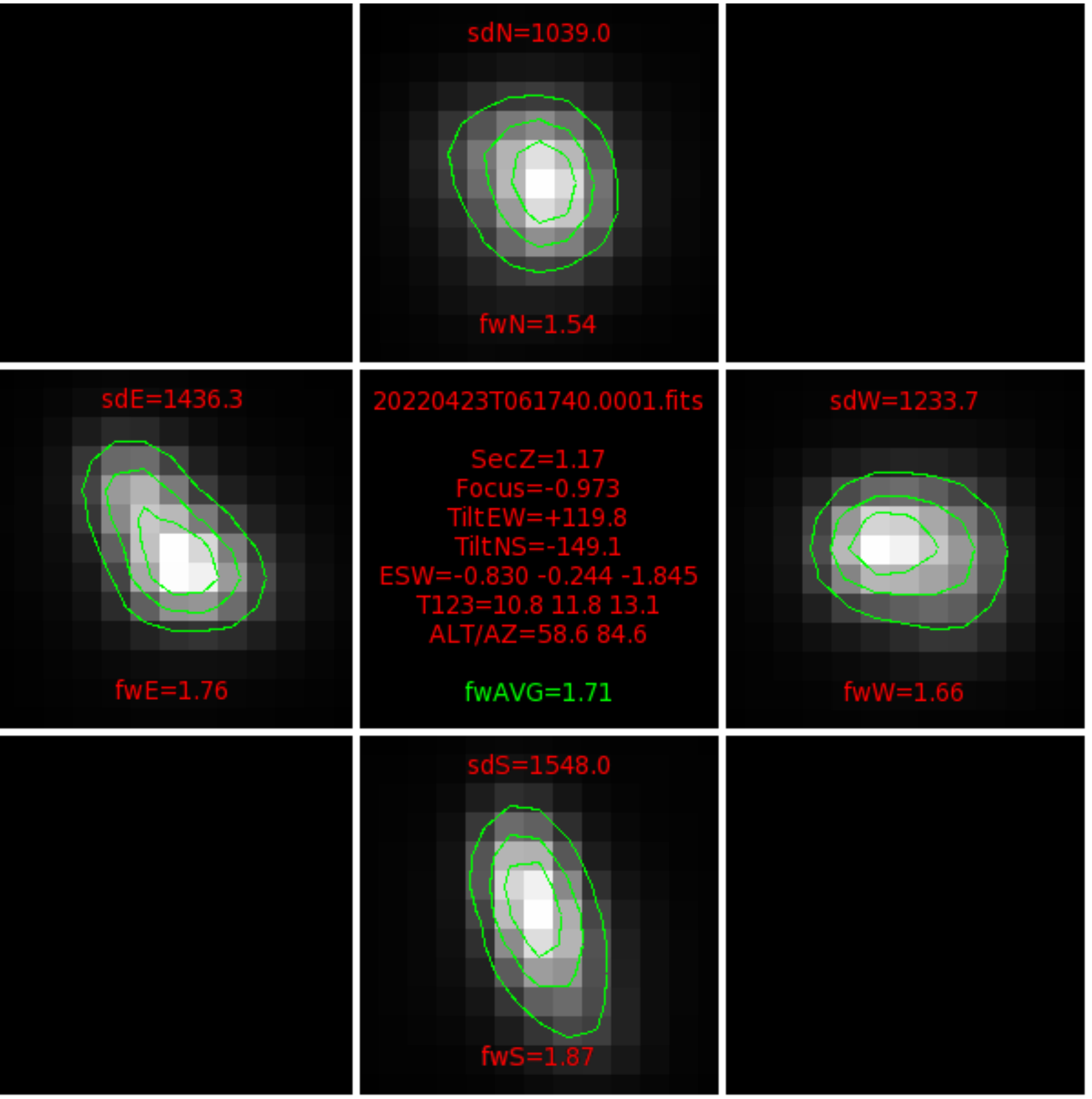
sdN=1039.0
fwN=1.54
sdE=1436.3
fwE=1.76
20220423T061740.0001.fits
SecZ=1.17
Focus=-0.973
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.830 -0.244 -1.845
T123=10.8 11.8 13.1
ALT/AZ=58.6 84.6
fwAVG=1.71
sdW=1233.7
fwW=1.66
sdS=1548.0
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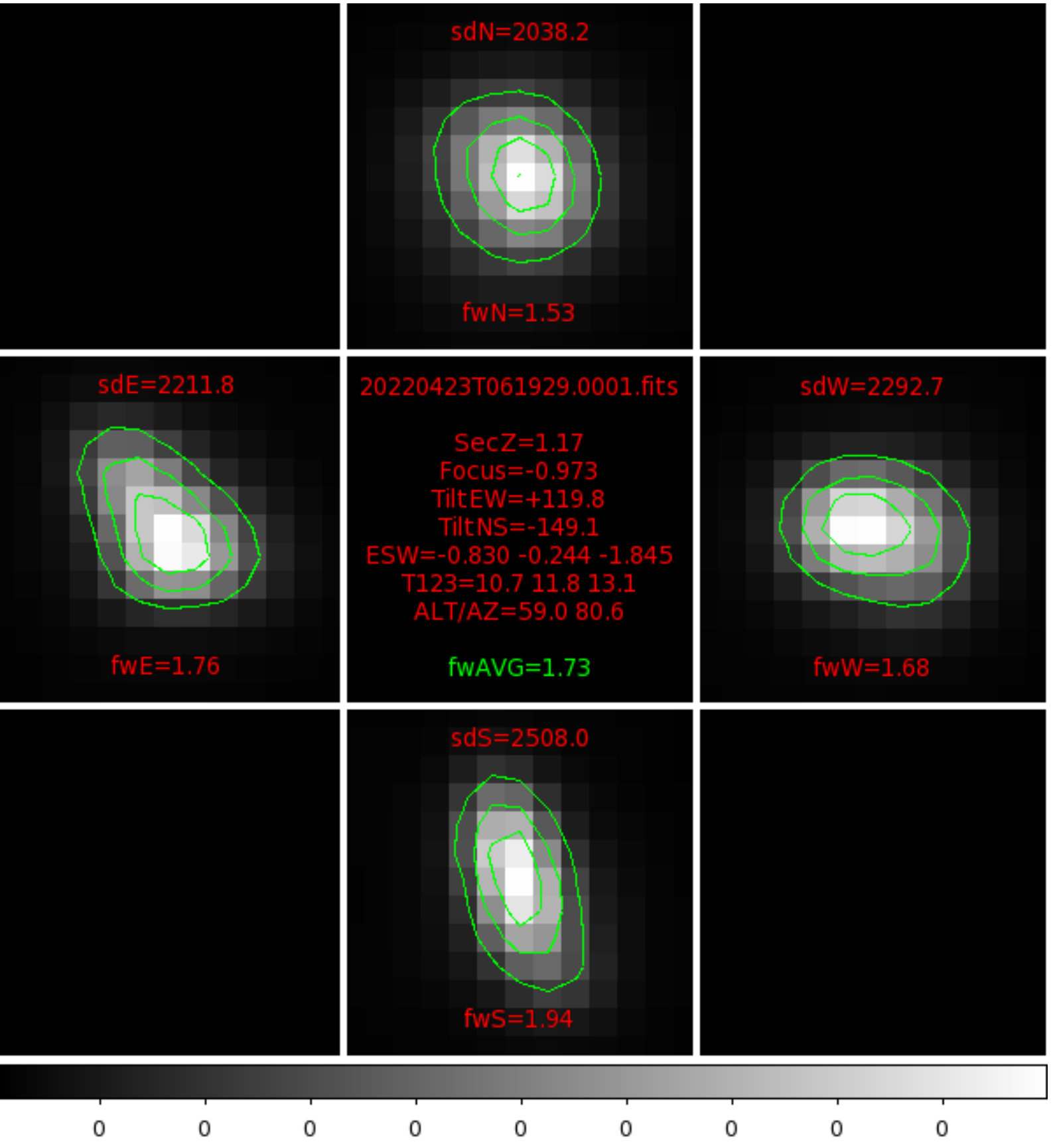
sdN=2038.2
fwN=1.53
sdE=2211.8
fwE=1.76
20220423T061929.0001.fits
SecZ=1.17
Focus=-0.973
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.830 -0.244 -1.845
T123=10.7 11.8 13.1
ALT/AZ=59.0 80.6
fwAVG=1.73
sdW=2292.7
fwW=1.68
sdS=2508.0
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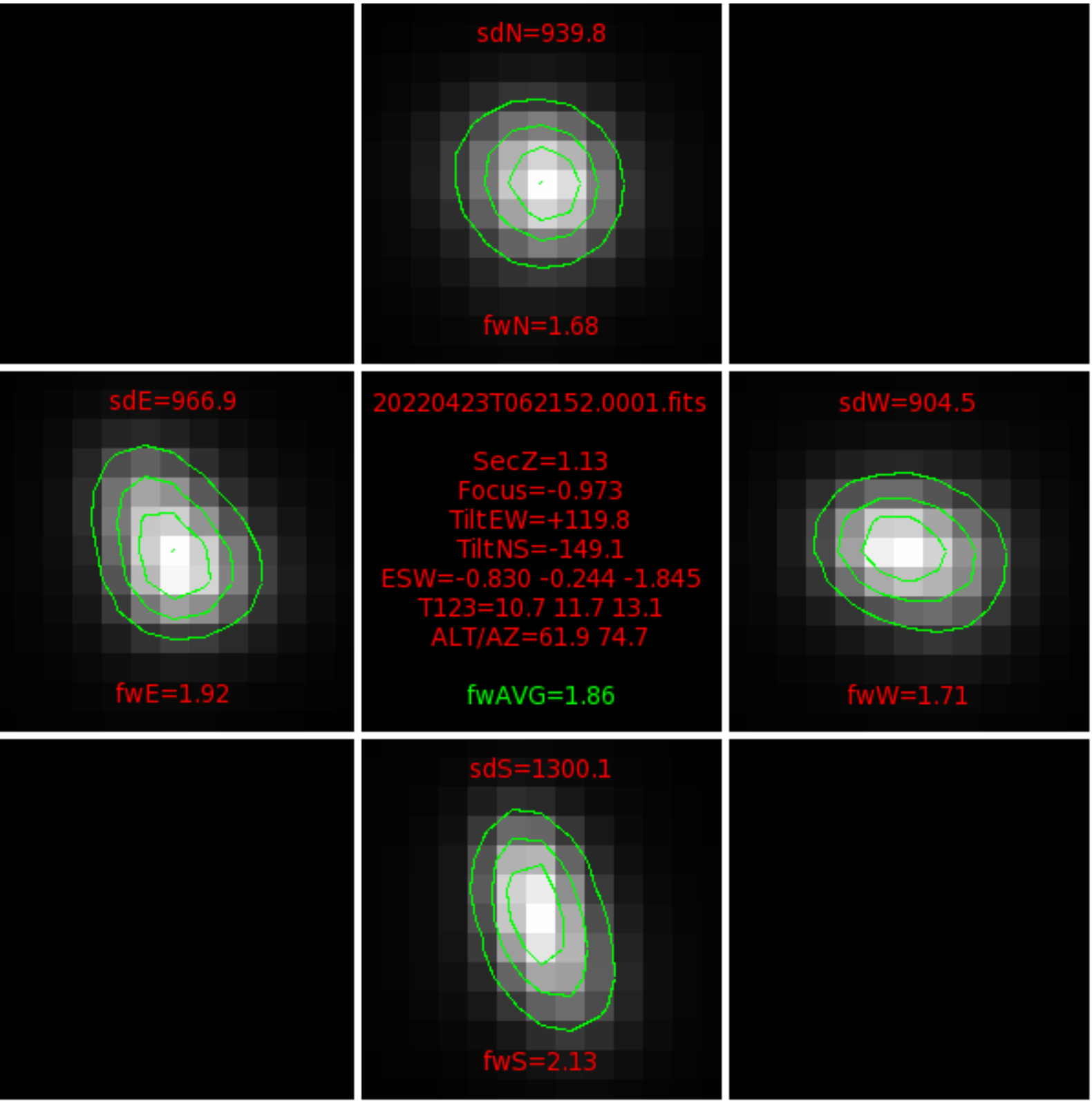
sdN=939.8
fwN=1.68
sdE=966.9
fwE=1.92
20220423T062152.0001.fits
SecZ=1.13
Focus=-0.973
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.830 -0.244 -1.845
T123=10.7 11.7 13.1
ALT/AZ=61.9 74.7
fwAVG=1.86
sdW=904.5
fwW=1.71
sdS=1300.1
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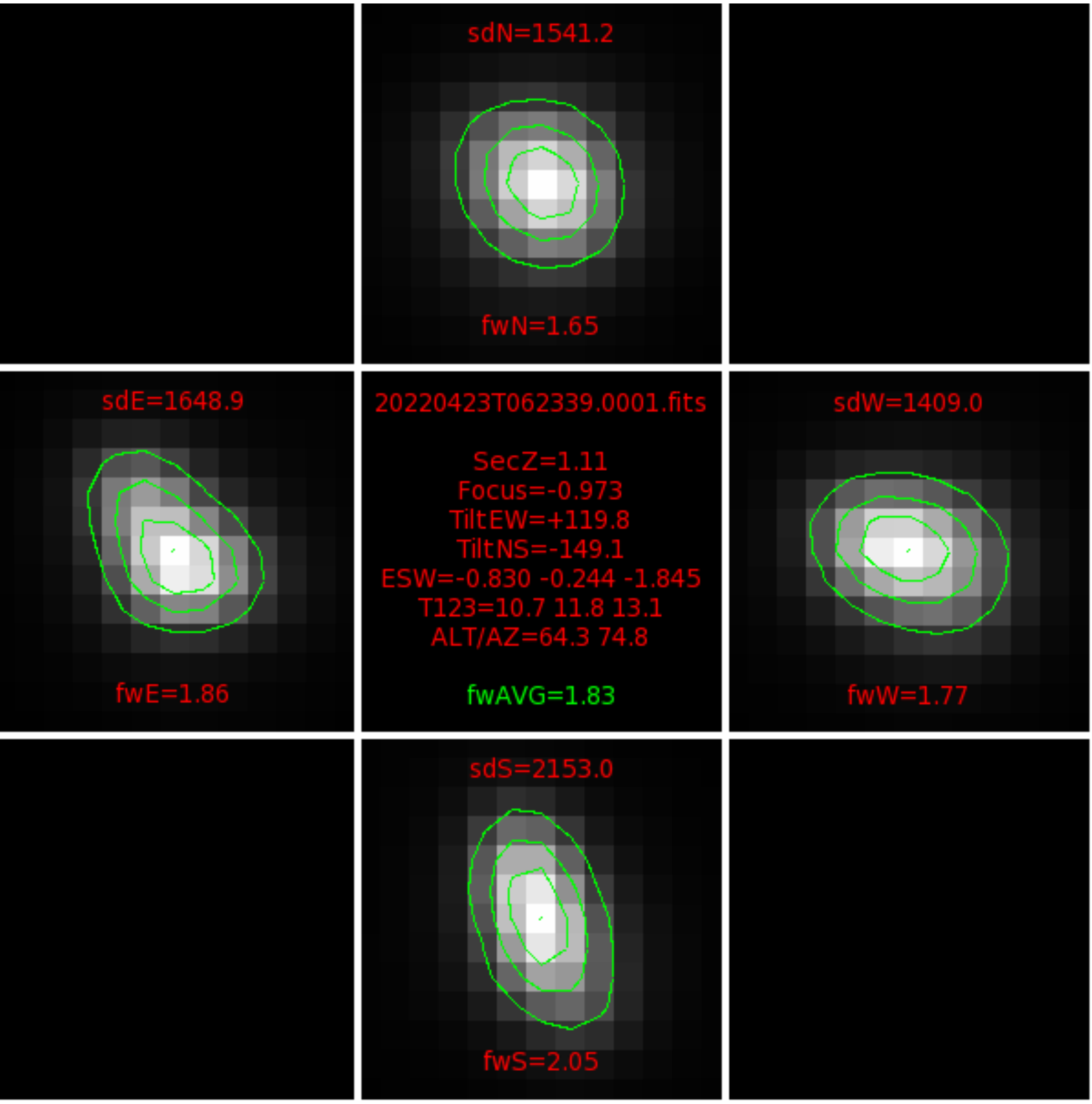
sdN=1541.2
fwN=1.65
sdE=1648.9
fwE=1.86
20220423T062339.0001.fits
SecZ=1.11
Focus=-0.973
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.830 -0.244 -1.845
T123=10.7 11.8 13.1
ALT/AZ=64.3 74.8
fwAVG=1.83
sdW=1409.0
fwW=1.77
sdS=2153.0
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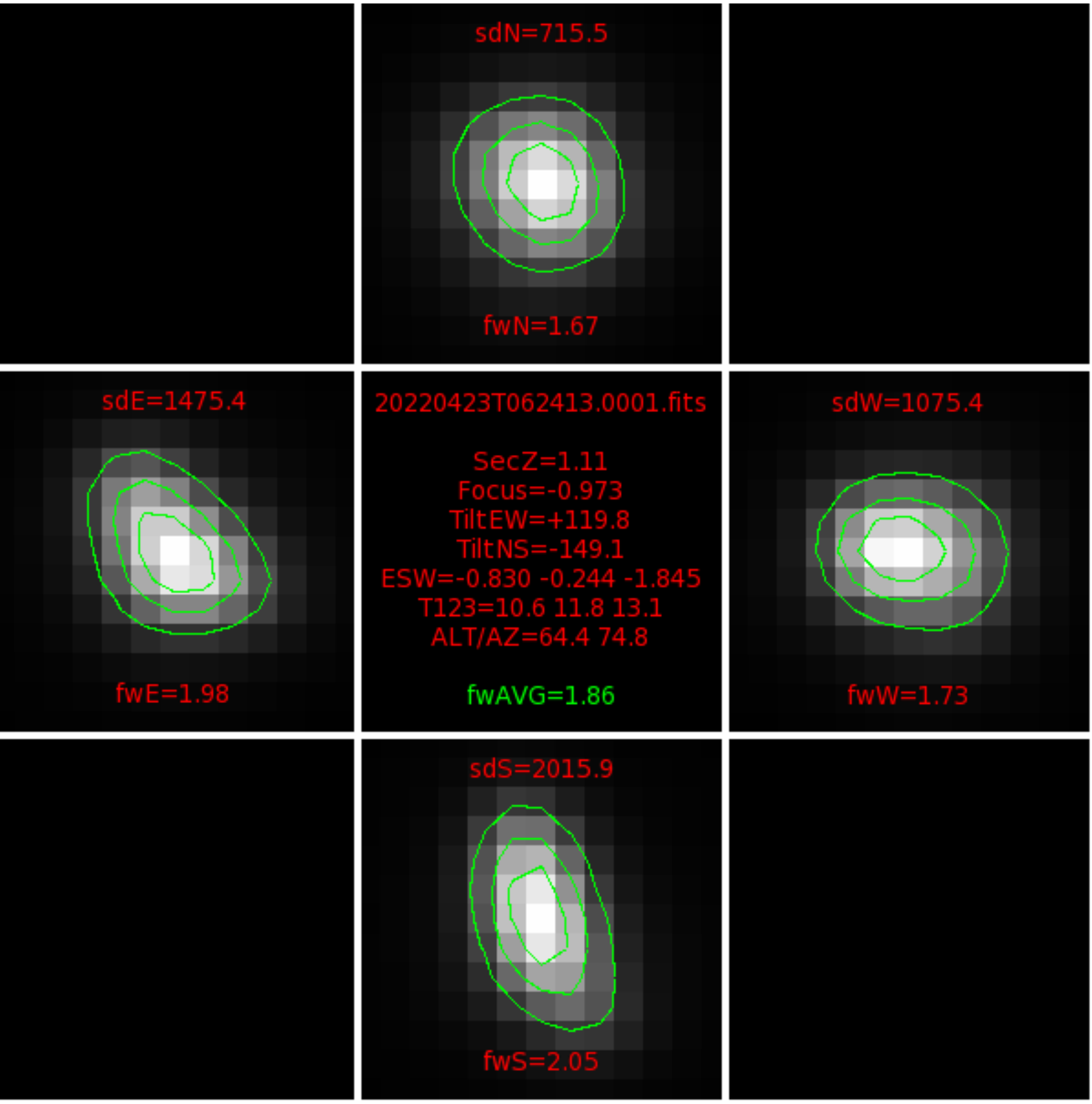
sdN=715.5
fwN=1.67
sdE=1475.4
fwE=1.98
20220423T062413.0001.fits
SecZ=1.11
Focus=-0.973
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.830 -0.244 -1.845
T123=10.6 11.8 13.1
ALT/AZ=64.4 74.8
fwAVG=1.86
sdW=1075.4
fwW=1.73
sdS=2015.9
fwS=2.05
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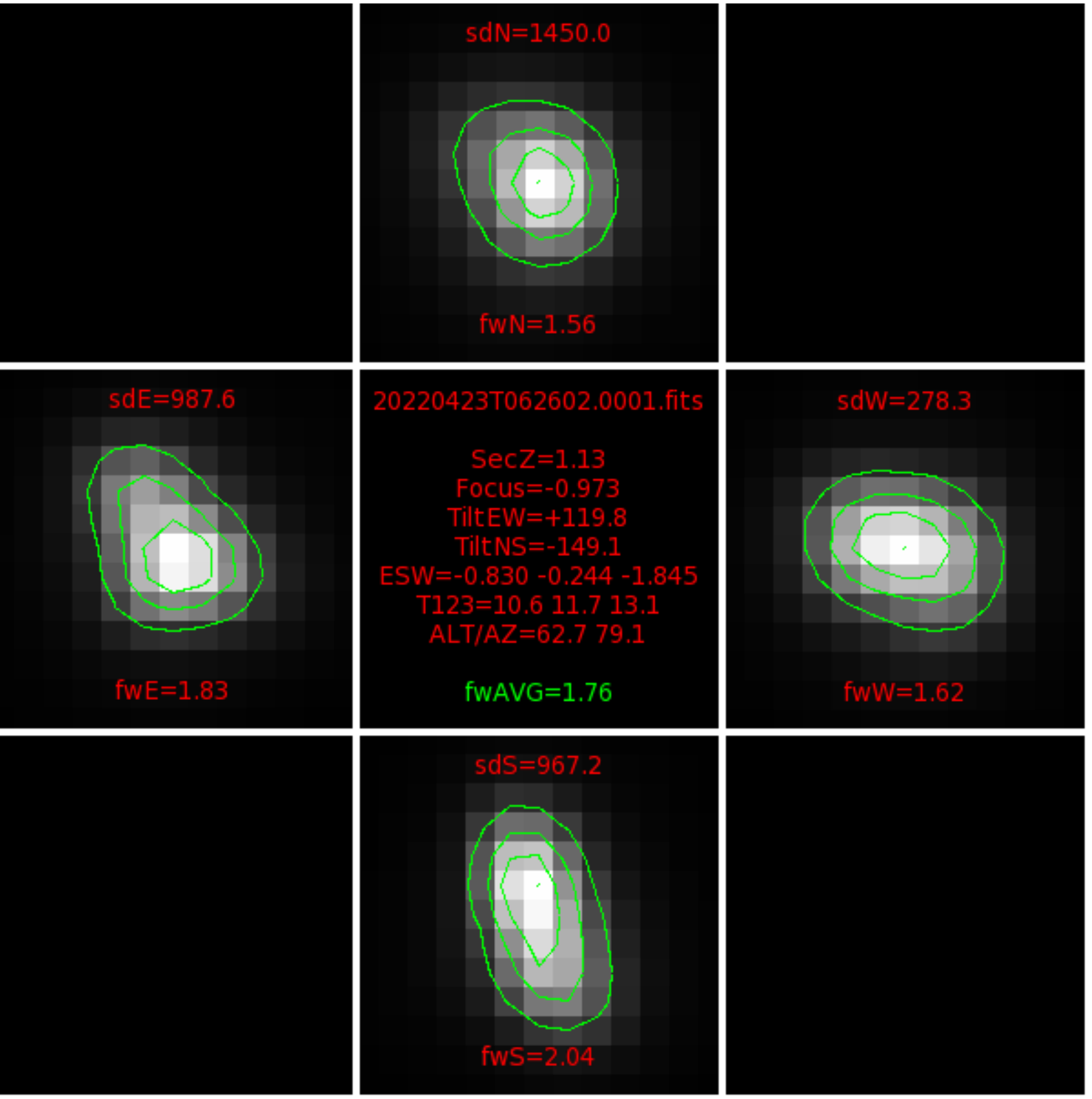
sdN=1450.0
fwN=1.56
sdE=987.6
fwE=1.83
20220423T062602.0001.fits
SecZ=1.13
Focus=-0.973
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.830 -0.244 -1.845
T123=10.6 11.7 13.1
ALT/AZ=62.7 79.1
fwAVG=1.76
sdW=278.3
fwW=1.62
sdS=967.2
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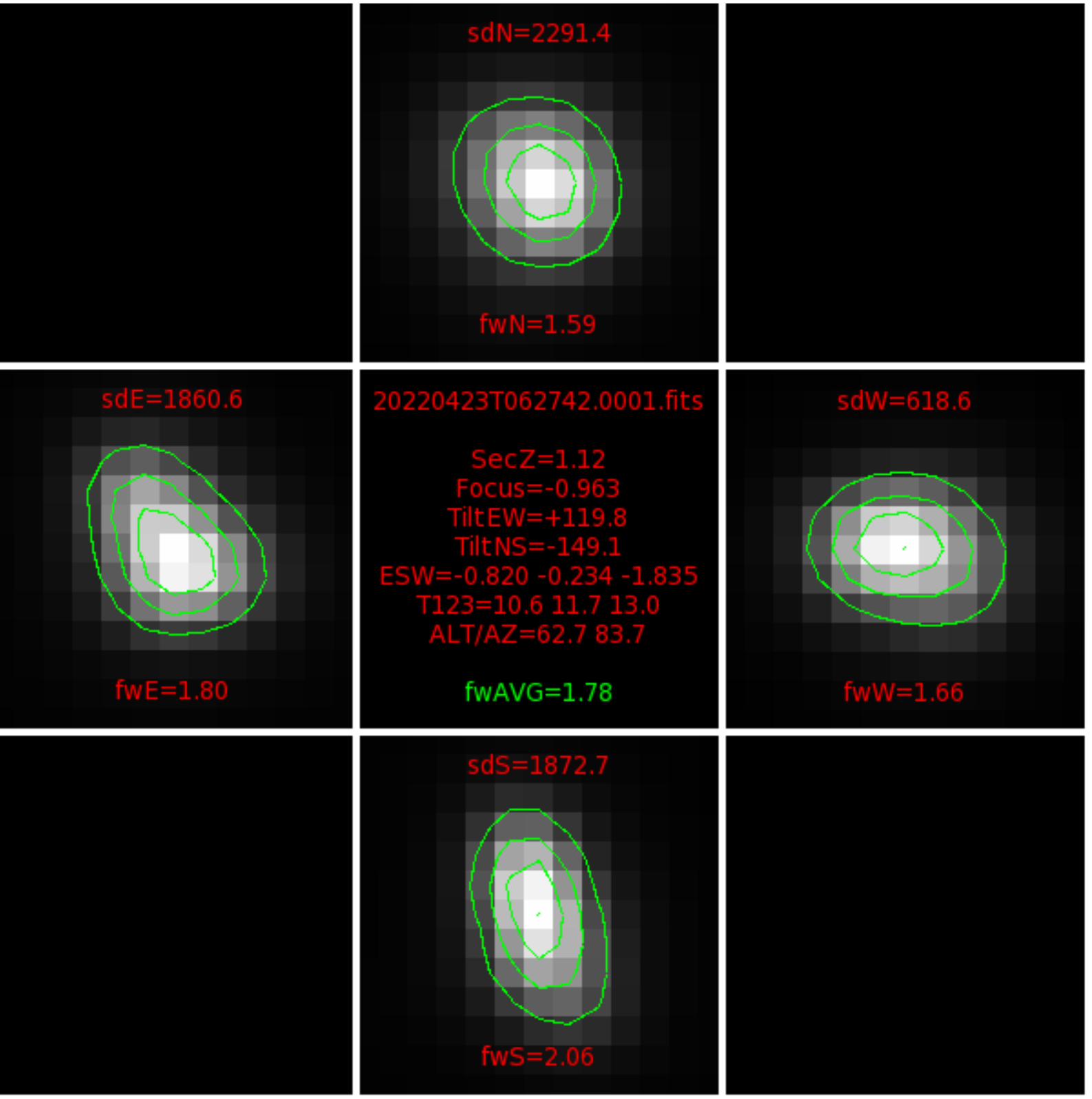
sdN=2291.4
fwN=1.59
sdE=1860.6
fwE=1.80
20220423T062742.0001.fits
SecZ=1.12
Focus=-0.963
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.820 -0.234 -1.835
T123=10.6 11.7 13.0
ALT/AZ=62.7 83.7
fwAVG=1.78
sdW=618.6
fwW=1.66
sdS=1872.7
fwS=2.06
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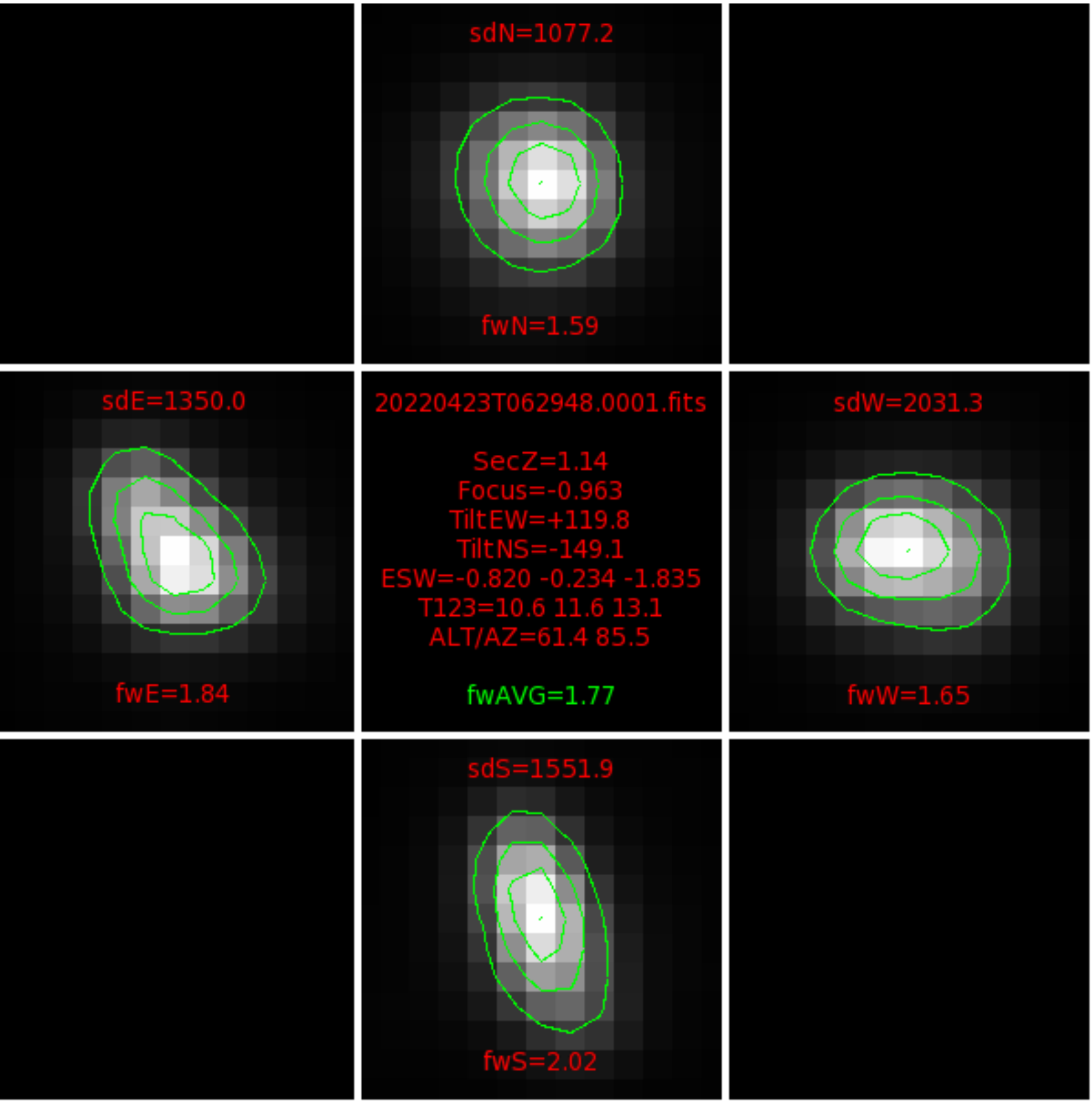
sdN=1077.2
fwN=1.59
sdE=1350.0
fwE=1.84
20220423T062948.0001.fits
SecZ=1.14
Focus=-0.963
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.820 -0.234 -1.835
T123=10.6 11.6 13.1
ALT/AZ=61.4 85.5
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sdW=2031.3
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sdS=1551.9
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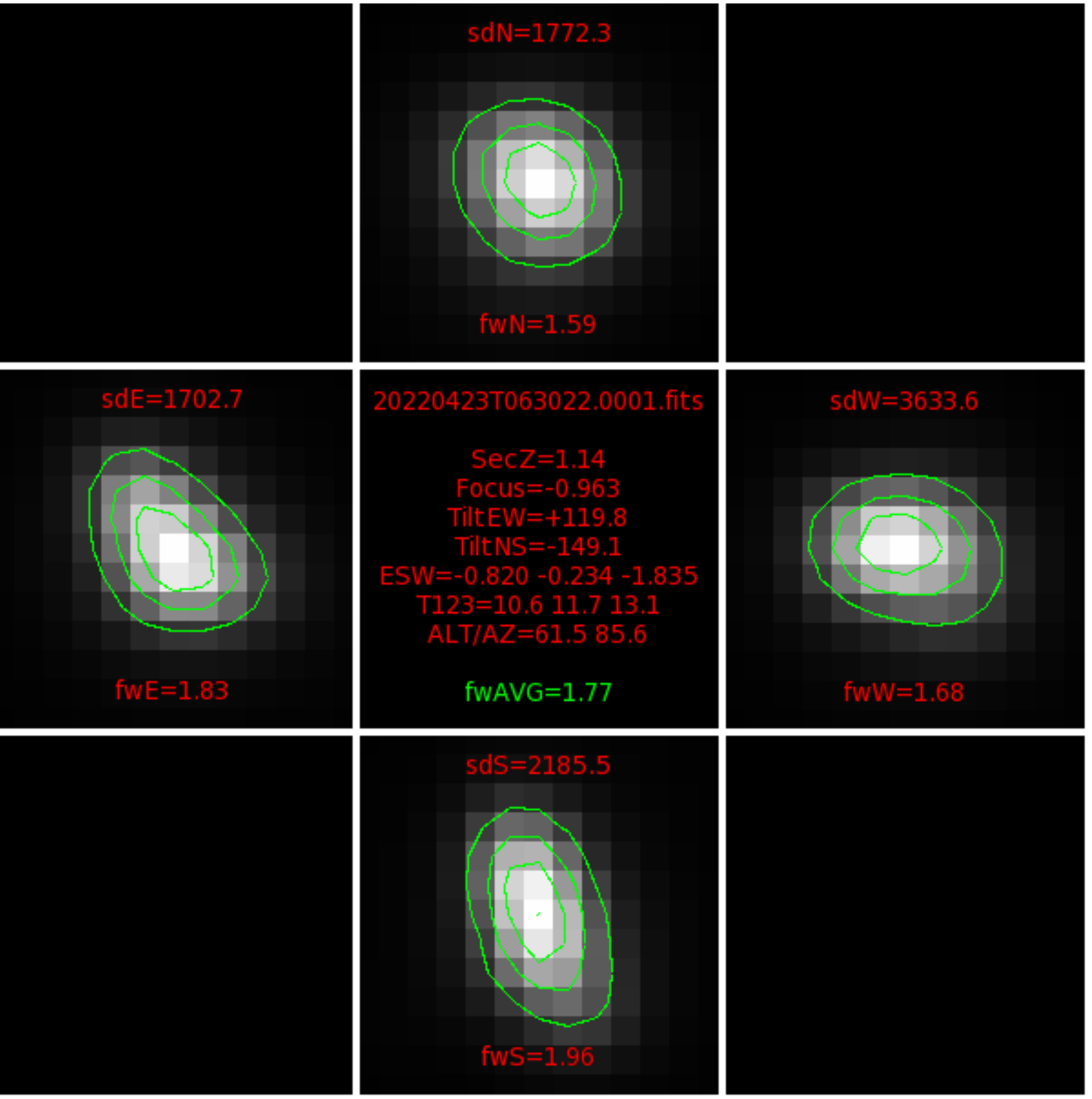
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fwN=1.59
sdE=1702.7
fwE=1.83
20220423T063022.0001.fits
SecZ=1.14
Focus=-0.963
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.820 -0.234 -1.835
T123=10.6 11.7 13.1
ALT/AZ=61.5 85.6
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sdW=3633.6
fwW=1.68
sdS=2185.5
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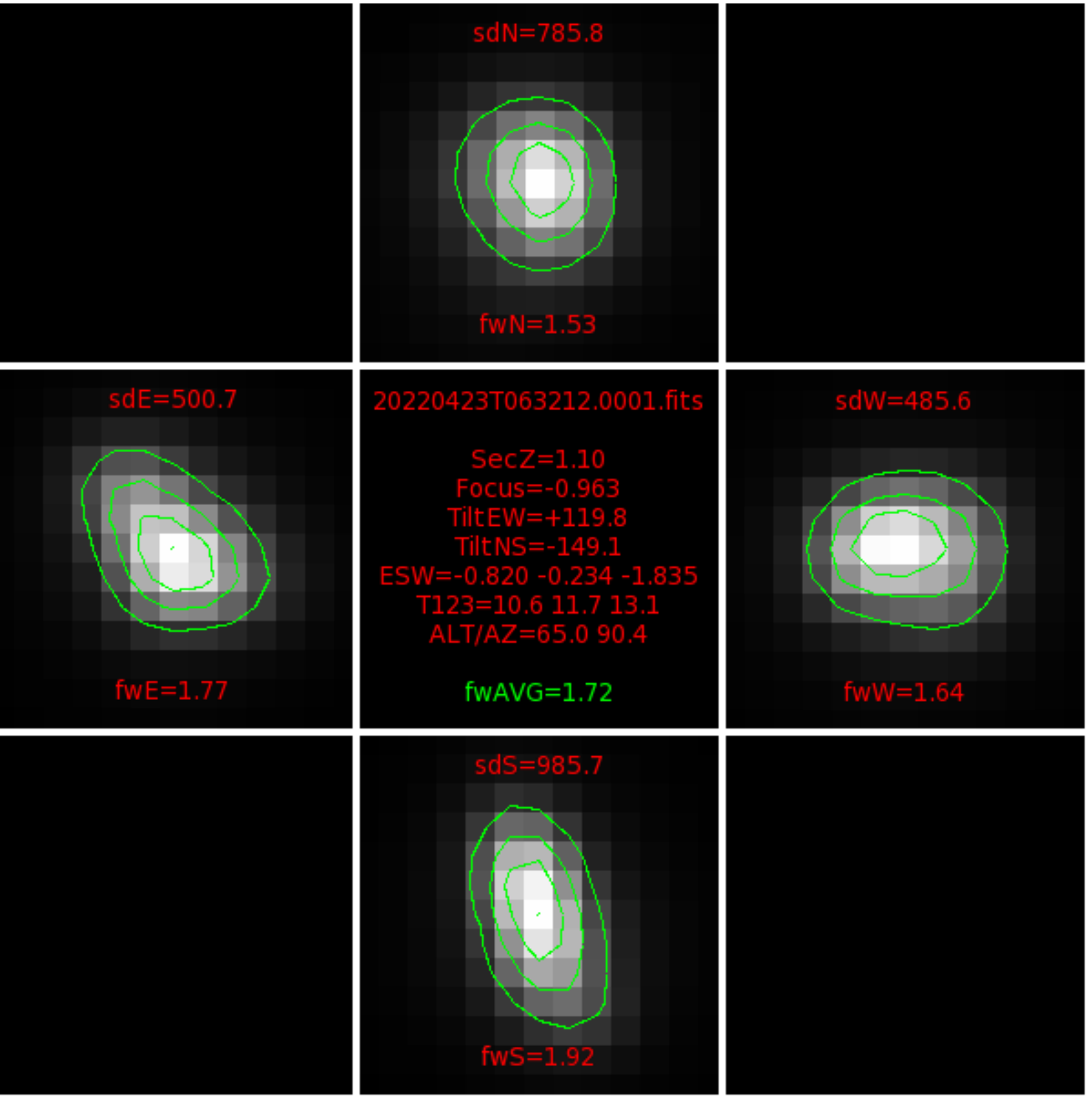
sdN=785.8
fwN=1.53
sdE=500.7
fwE=1.77
20220423T063212.0001.fits
SecZ=1.10
Focus=-0.963
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.820 -0.234 -1.835
T123=10.6 11.7 13.1
ALT/AZ=65.0 90.4
fwAVG=1.72
sdW=485.6
fwW=1.64
sdS=985.7
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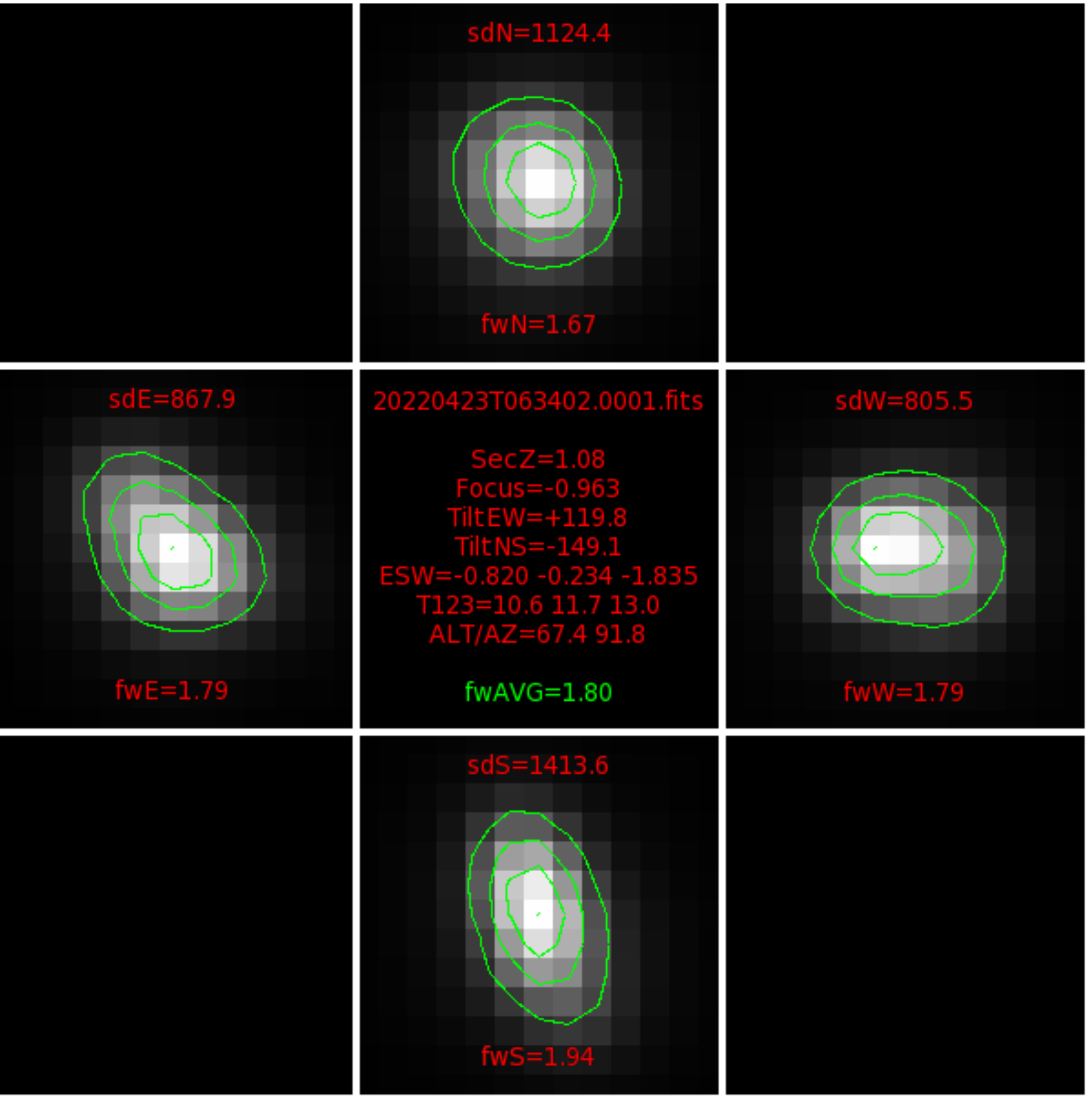
sdN=1124.4
fwN=1.67
sdE=867.9
fwE=1.79
20220423T063402.0001.fits
SecZ=1.08
Focus=-0.963
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.820 -0.234 -1.835
T123=10.6 11.7 13.0
ALT/AZ=67.4 91.8
fwAVG=1.80
sdW=805.5
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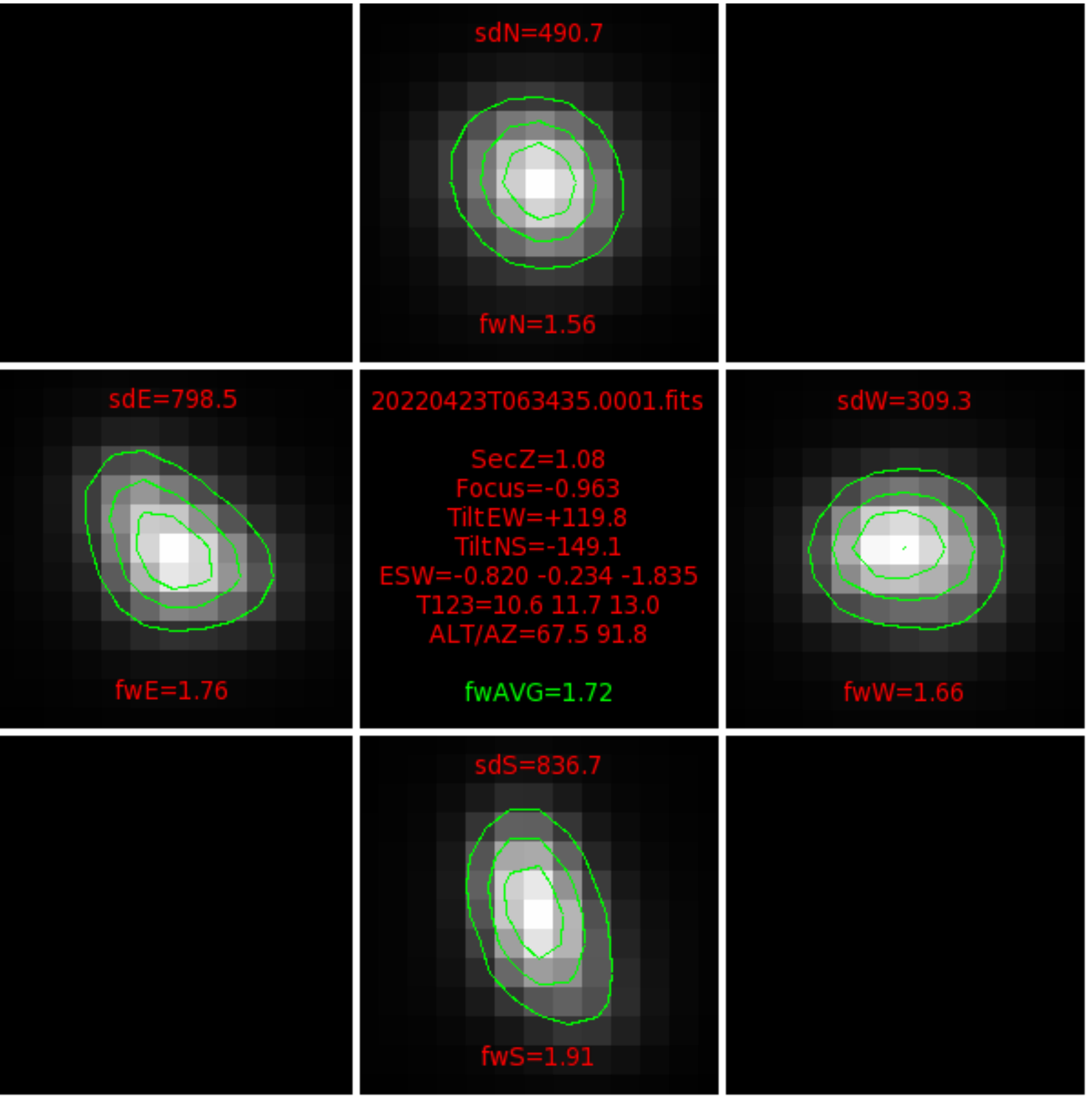
sdN=490.7
fwN=1.56
sdE=798.5
fwE=1.76
20220423T063435.0001.fits
SecZ=1.08
Focus=-0.963
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.820 -0.234 -1.835
T123=10.6 11.7 13.0
ALT/AZ=67.5 91.8
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sdW=309.3
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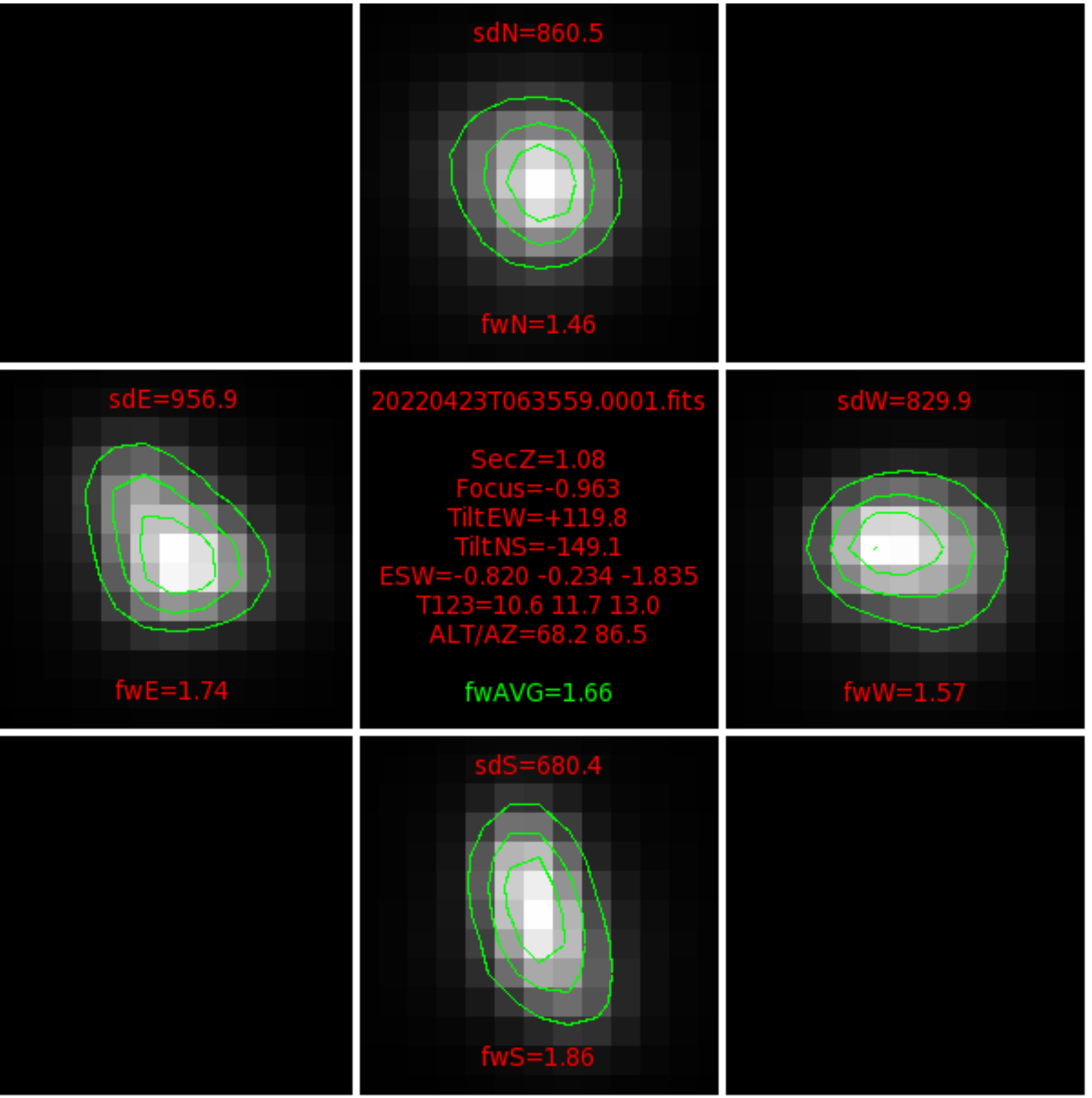
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fwN=1.46
sdE=956.9
fwE=1.74
20220423T063559.0001.fits
SecZ=1.08
Focus=-0.963
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.820 -0.234 -1.835
T123=10.6 11.7 13.0
ALT/AZ=68.2 86.5
fwAVG=1.66
sdW=829.9
fwW=1.57
sdS=680.4
fwS=1.86
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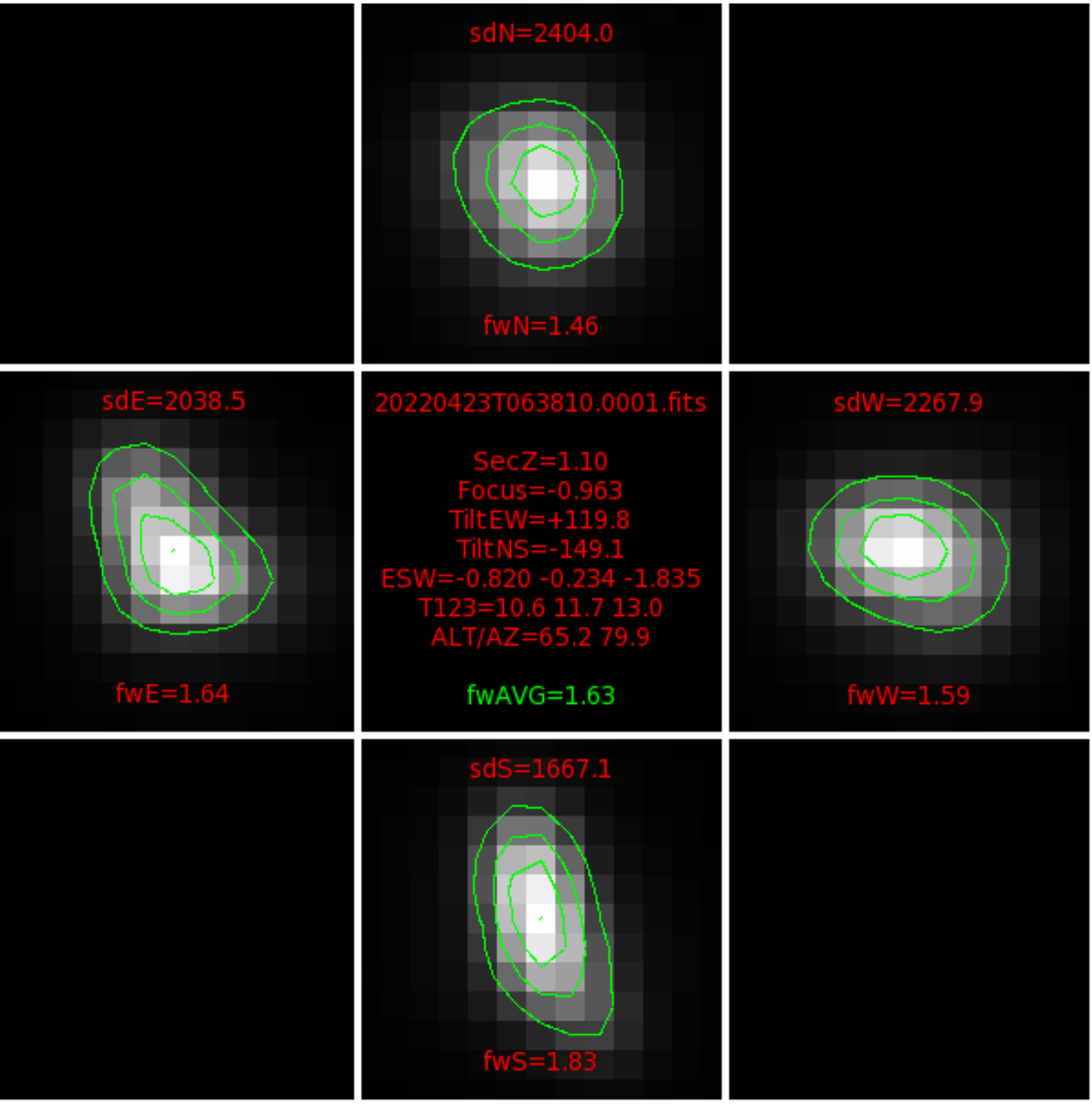
sdN=2404.0
fwN=1.46
sdE=2038.5
fwE=1.64
20220423T063810.0001.fits
SecZ=1.10
Focus=-0.963
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.820 -0.234 -1.835
T123=10.6 11.7 13.0
ALT/AZ=65.2 79.9
fwAVG=1.63
sdW=2267.9
fwW=1.59
sdS=1667.1
fwS=1.83
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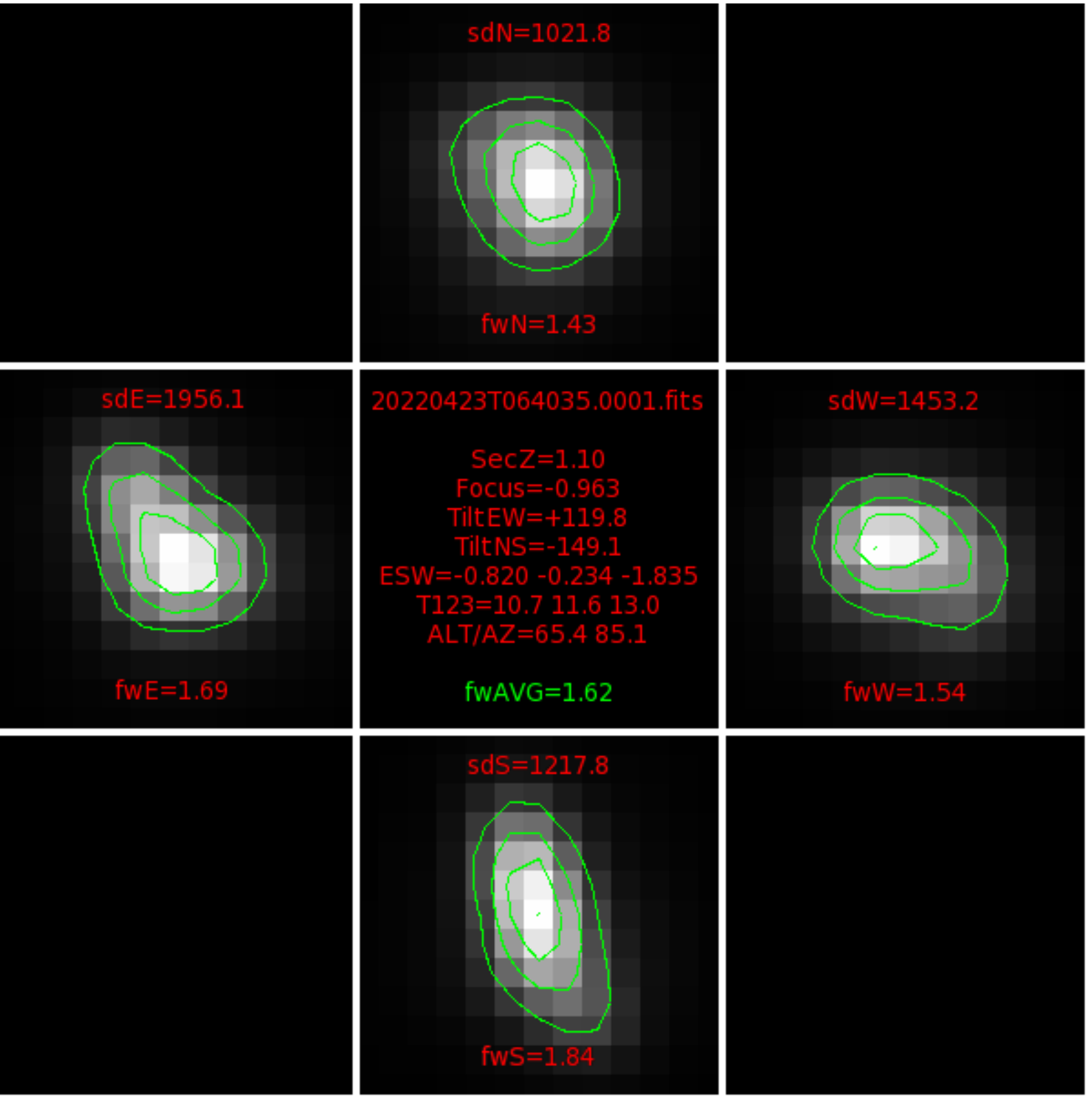
sdN=1021.8
fwN=1.43
sdE=1956.1
fwE=1.69
20220423T064035.0001.fits
SecZ=1.10
Focus=-0.963
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.820 -0.234 -1.835
T123=10.7 11.6 13.0
ALT/AZ=65.4 85.1
fwAVG=1.62
sdW=1453.2
fwW=1.54
sdS=1217.8
fwS=1.84
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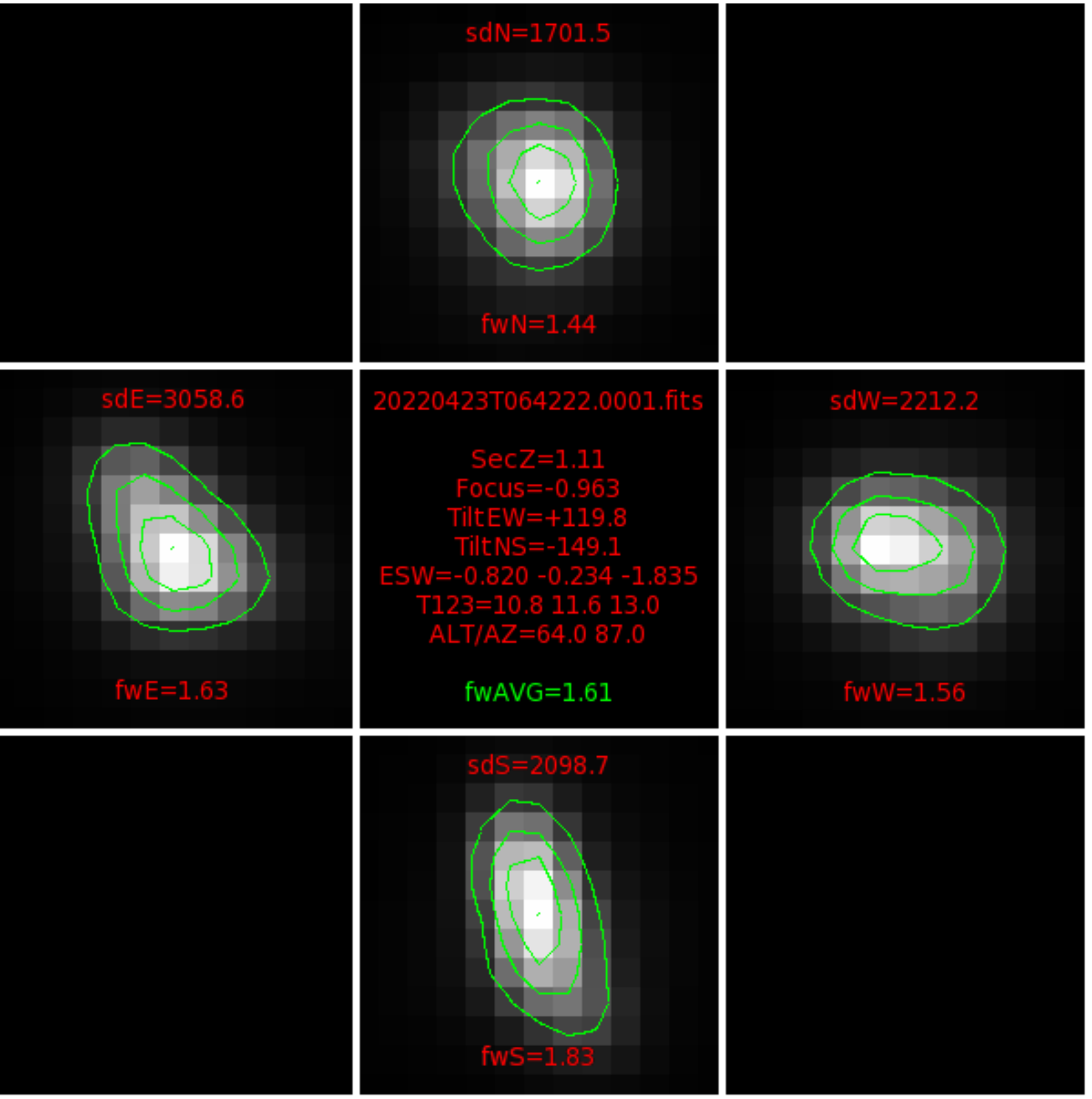
sdN=1701.5
fwN=1.44
sdE=3058.6
fwE=1.63
20220423T064222.0001.fits
SecZ=1.11
Focus=-0.963
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.820 -0.234 -1.835
T123=10.8 11.6 13.0
ALT/AZ=64.0 87.0
fwAVG=1.61
sdW=2212.2
fwW=1.56
sdS=2098.7
fwS=1.83
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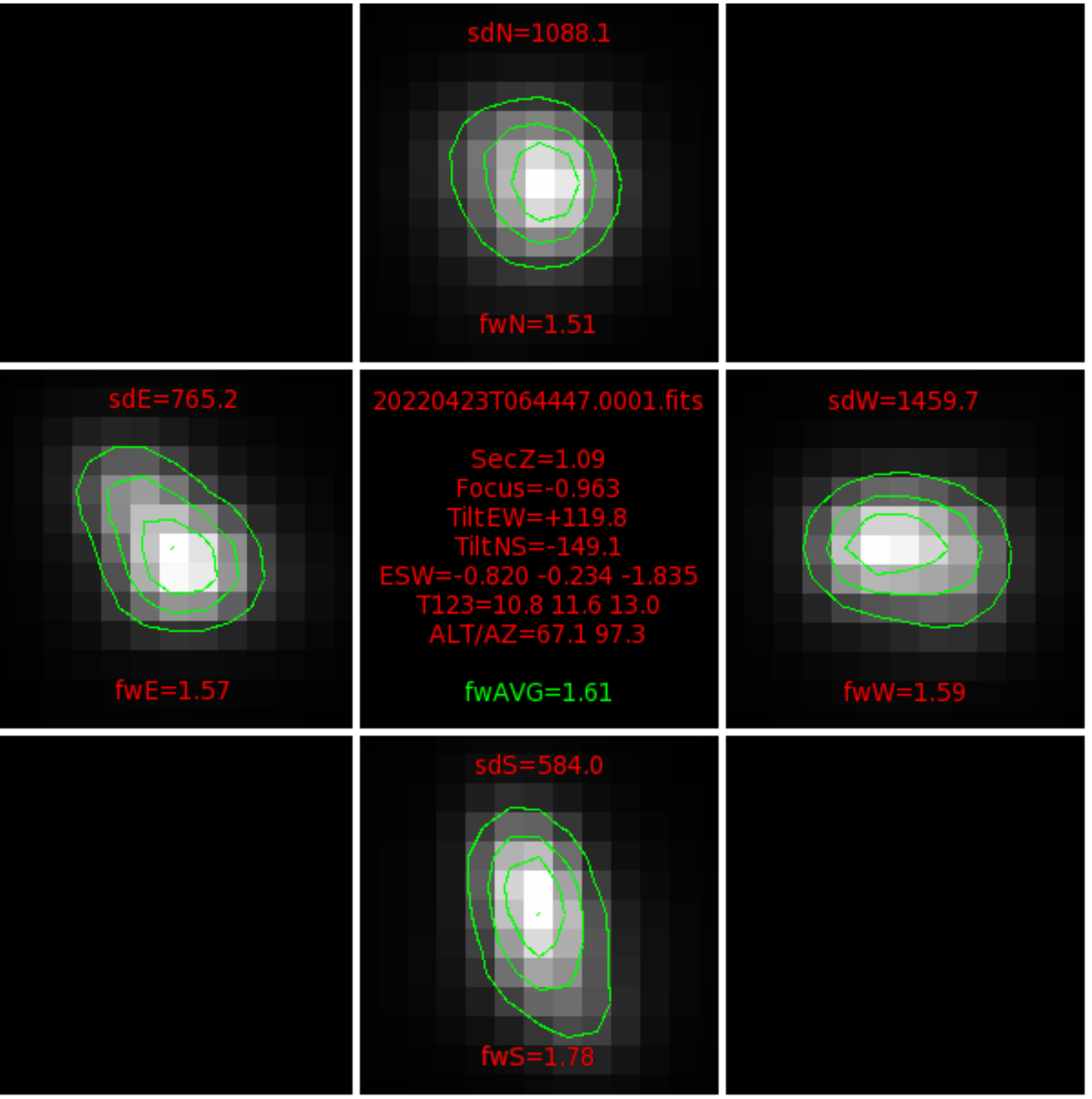
sdN=1088.1
fwN=1.51
sdE=765.2
fwE=1.57
20220423T064447.0001.fits
SecZ=1.09
Focus=-0.963
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.820 -0.234 -1.835
T123=10.8 11.6 13.0
ALT/AZ=67.1 97.3
fwAVG=1.61
sdW=1459.7
fwW=1.59
sdS=584.0
fwS=1.78
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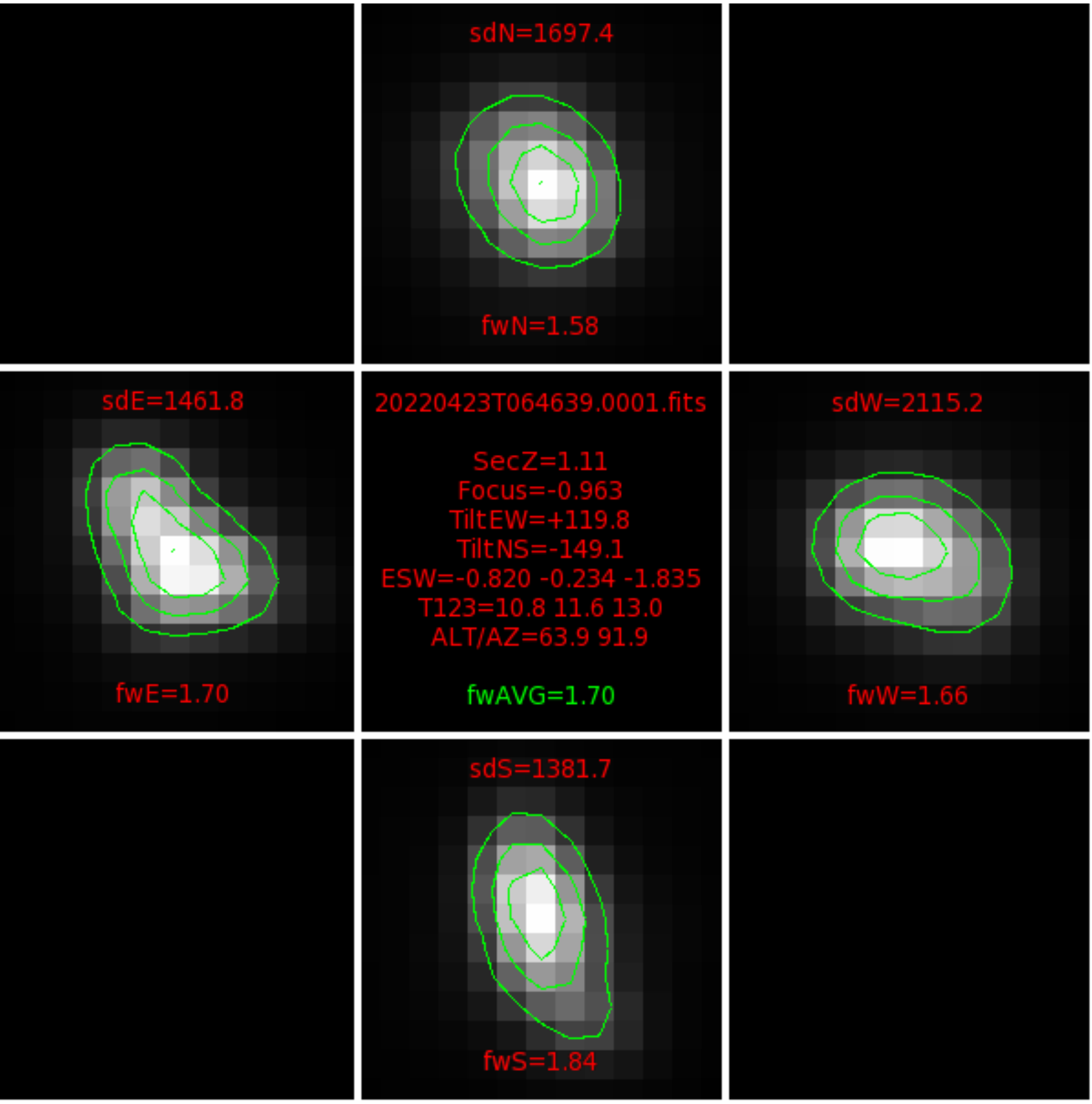
sdN=1697.4
fwN=1.58
sdE=1461.8
fwE=1.70
20220423T064639.0001.fits
SecZ=1.11
Focus=-0.963
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.820 -0.234 -1.835
T123=10.8 11.6 13.0
ALT/AZ=63.9 91.9
fwAVG=1.70
sdW=2115.2
fwW=1.66
sdS=1381.7
fwS=1.84
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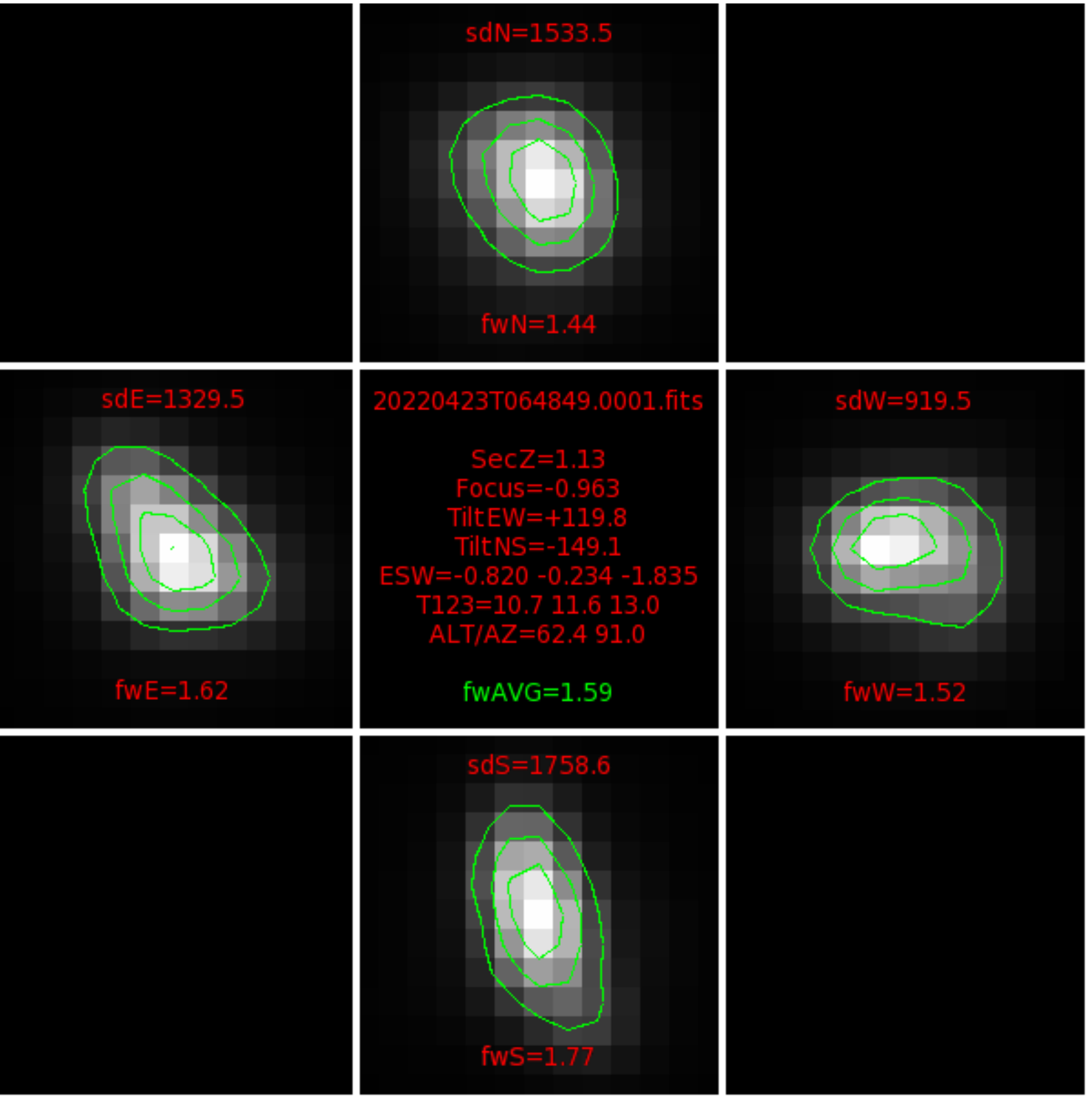
sdN=1533.5
fwN=1.44
sdE=1329.5
fwE=1.62
20220423T064849.0001.fits
SecZ=1.13
Focus=-0.963
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.820 -0.234 -1.835
T123=10.7 11.6 13.0
ALT/AZ=62.4 91.0
fwAVG=1.59
sdW=919.5
fwW=1.52
sdS=1758.6
fwS=1.77
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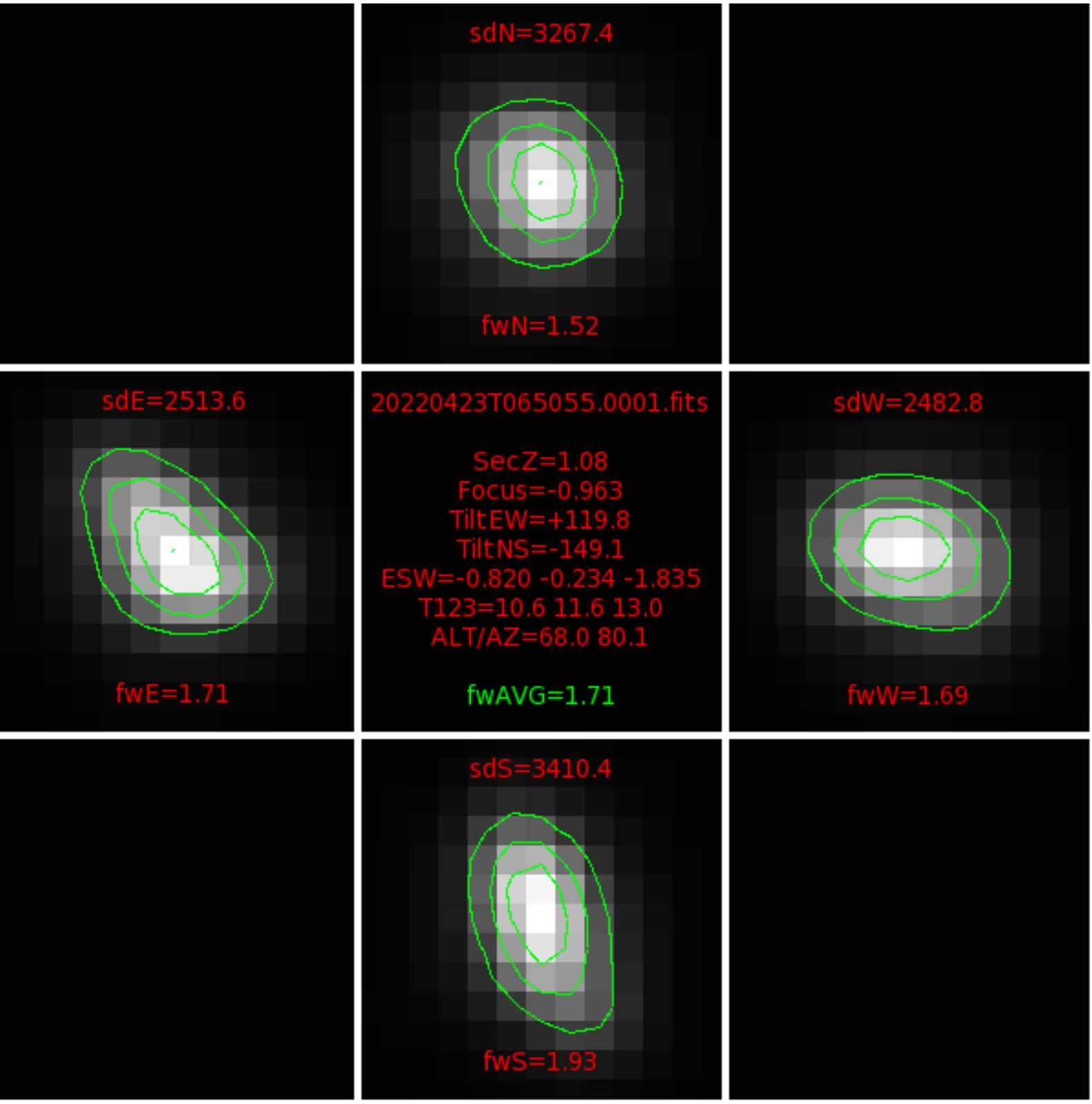
sdN=3267.4
fwN=1.52
sdE=2513.6
fwE=1.71
20220423T065055.0001.fits
SecZ=1.08
Focus=-0.963
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.820 -0.234 -1.835
T123=10.6 11.6 13.0
ALT/AZ=68.0 80.1
fwAVG=1.71
sdW=2482.8
fwW=1.69
sdS=3410.4
fwS=1.93
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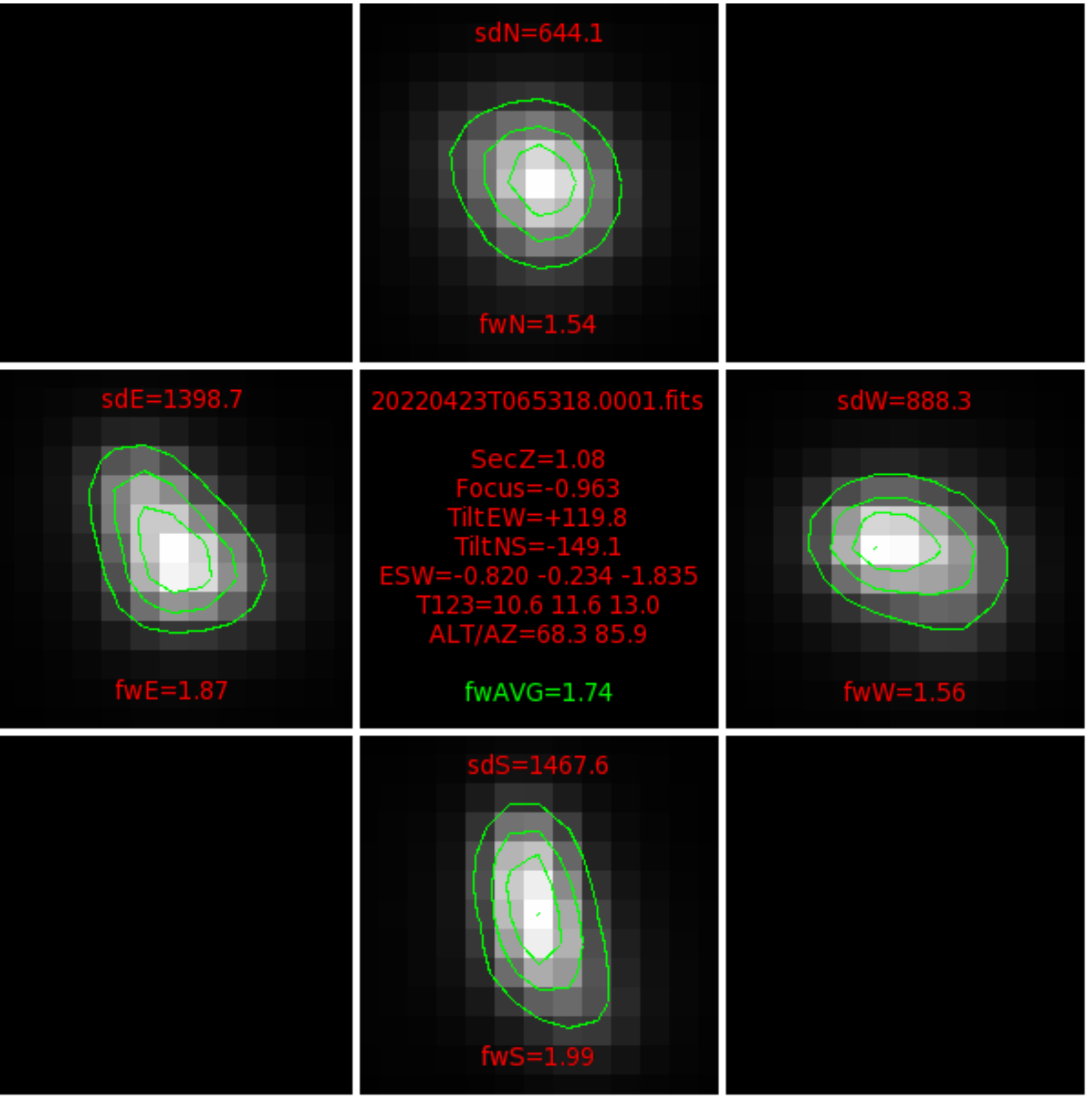
sdN=644.1
fwN=1.54
sdE=1398.7
fwE=1.87
20220423T065318.0001.fits
SecZ=1.08
Focus=-0.963
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.820 -0.234 -1.835
T123=10.6 11.6 13.0
ALT/AZ=68.3 85.9
fwAVG=1.74
sdW=888.3
fwW=1.56
sdS=1467.6
fwS=1.99
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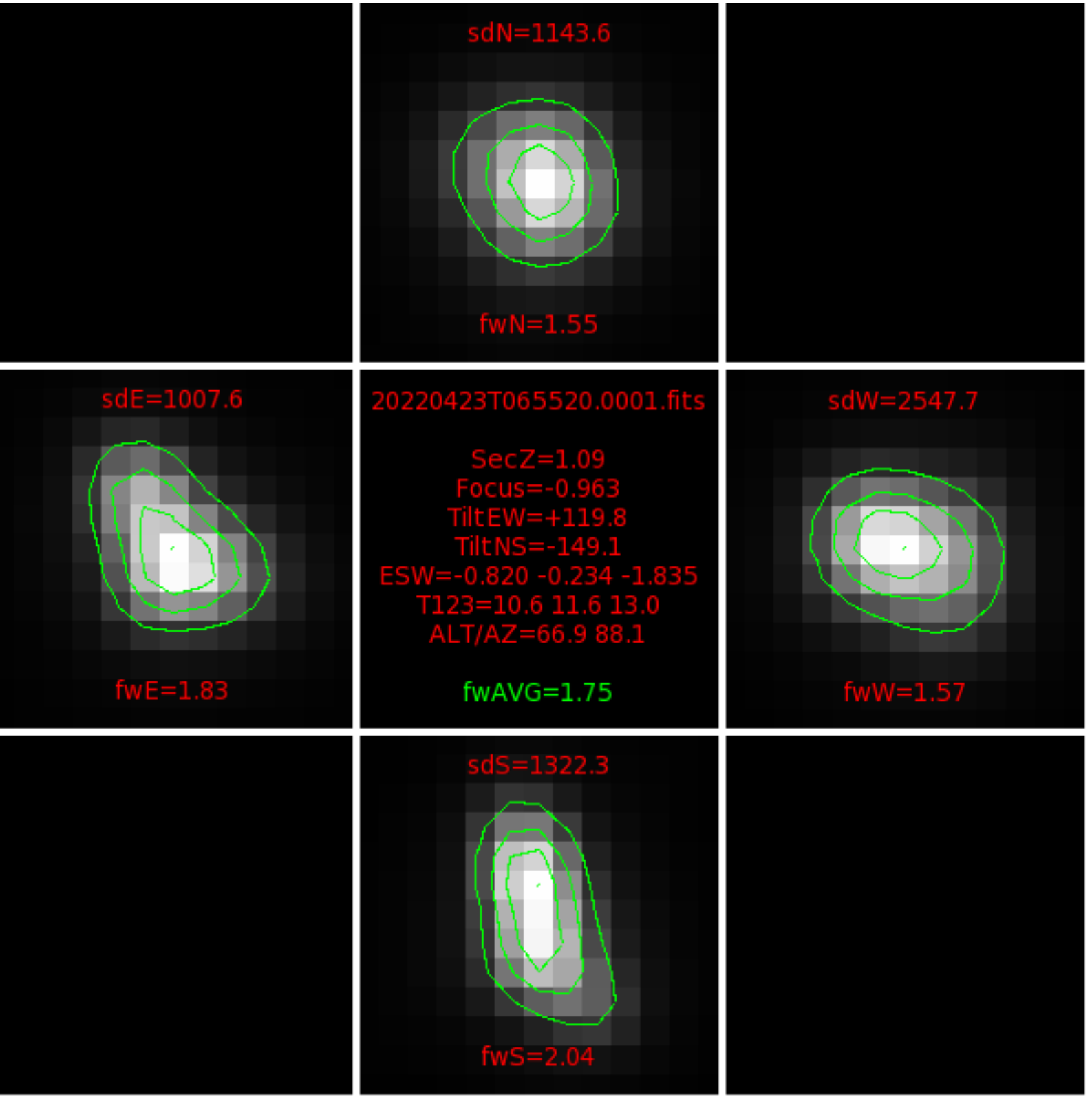
sdN=1143.6
fwN=1.55
sdE=1007.6
fwE=1.83
20220423T065520.0001.fits
SecZ=1.09
Focus=-0.963
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.820 -0.234 -1.835
T123=10.6 11.6 13.0
ALT/AZ=66.9 88.1
fwAVG=1.75
sdW=2547.7
fwW=1.57
sdS=1322.3
fwS=2.04
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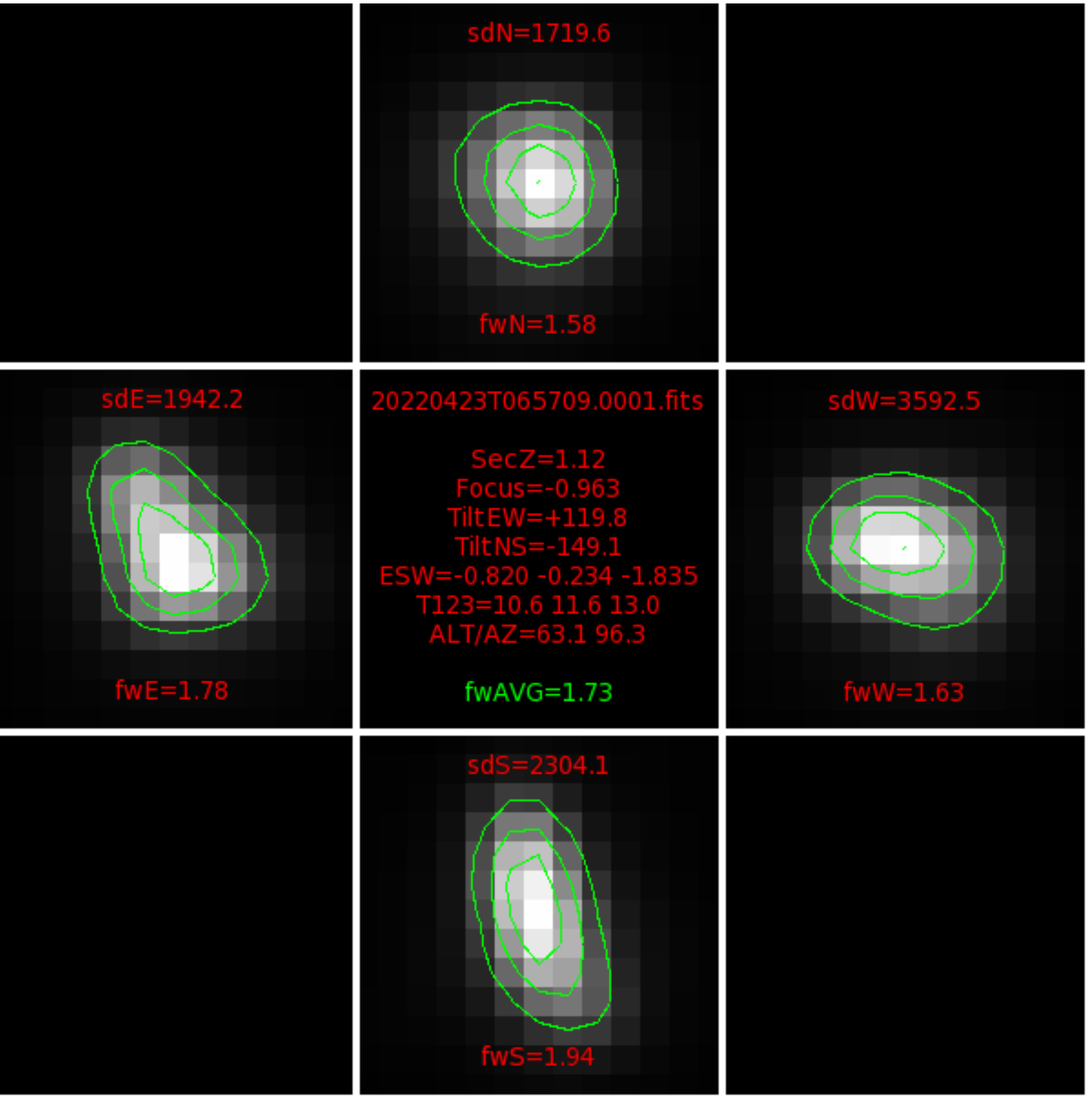
sdN=1719.6
fwN=1.58
sdE=1942.2
fwE=1.78
20220423T065709.0001.fits
SecZ=1.12
Focus=-0.963
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.820 -0.234 -1.835
T123=10.6 11.6 13.0
ALT/AZ=63.1 96.3
fwAVG=1.73
sdW=3592.5
fwW=1.63
sdS=2304.1
fwS=1.94
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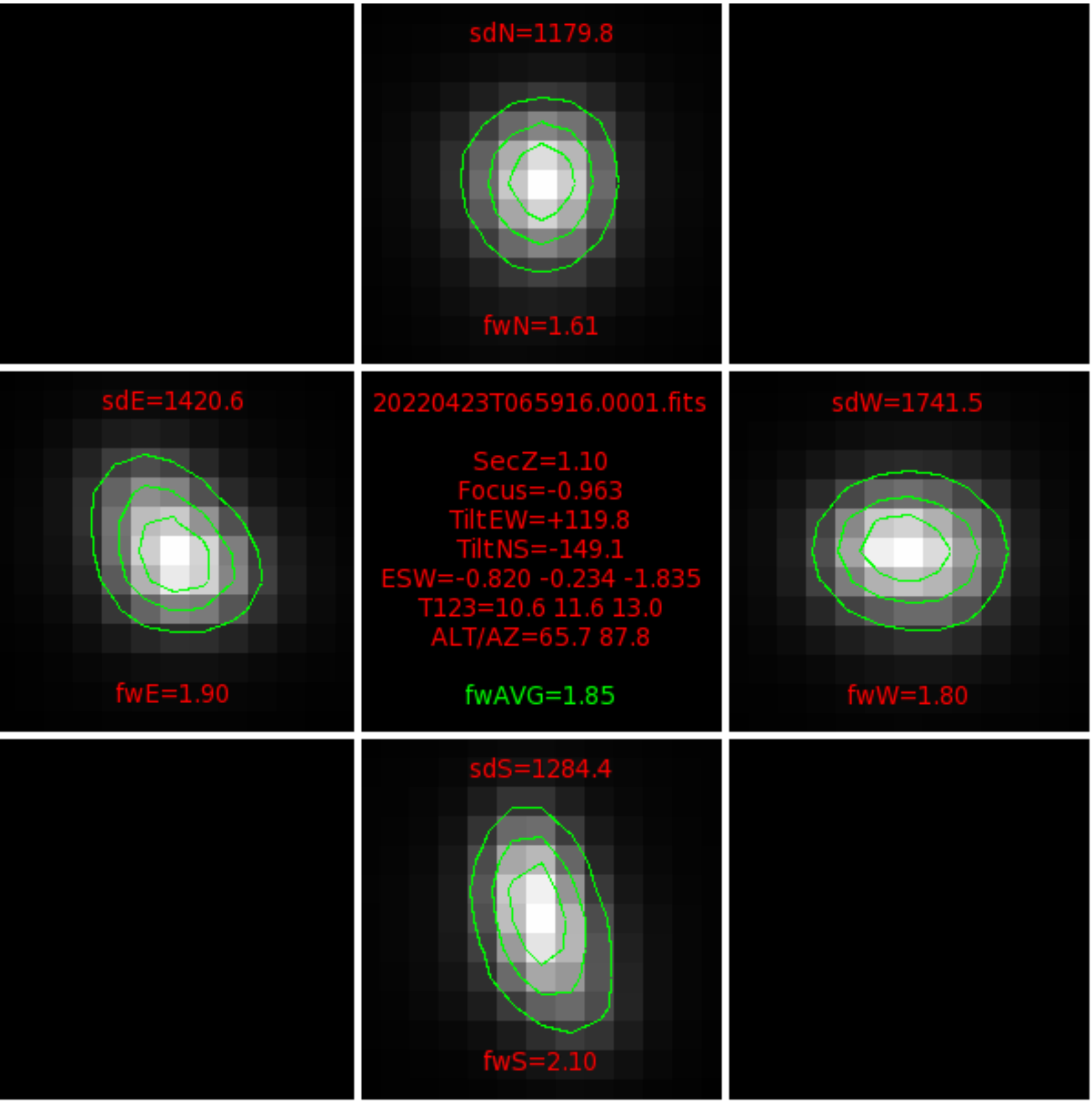
sdN=1179.8
fwN=1.61
sdE=1420.6
fwE=1.90
20220423T065916.0001.fits
SecZ=1.10
Focus=-0.963
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.820 -0.234 -1.835
T123=10.6 11.6 13.0
ALT/AZ=65.7 87.8
fwAVG=1.85
sdW=1741.5
fwW=1.80
sdS=1284.4
fwS=2.10
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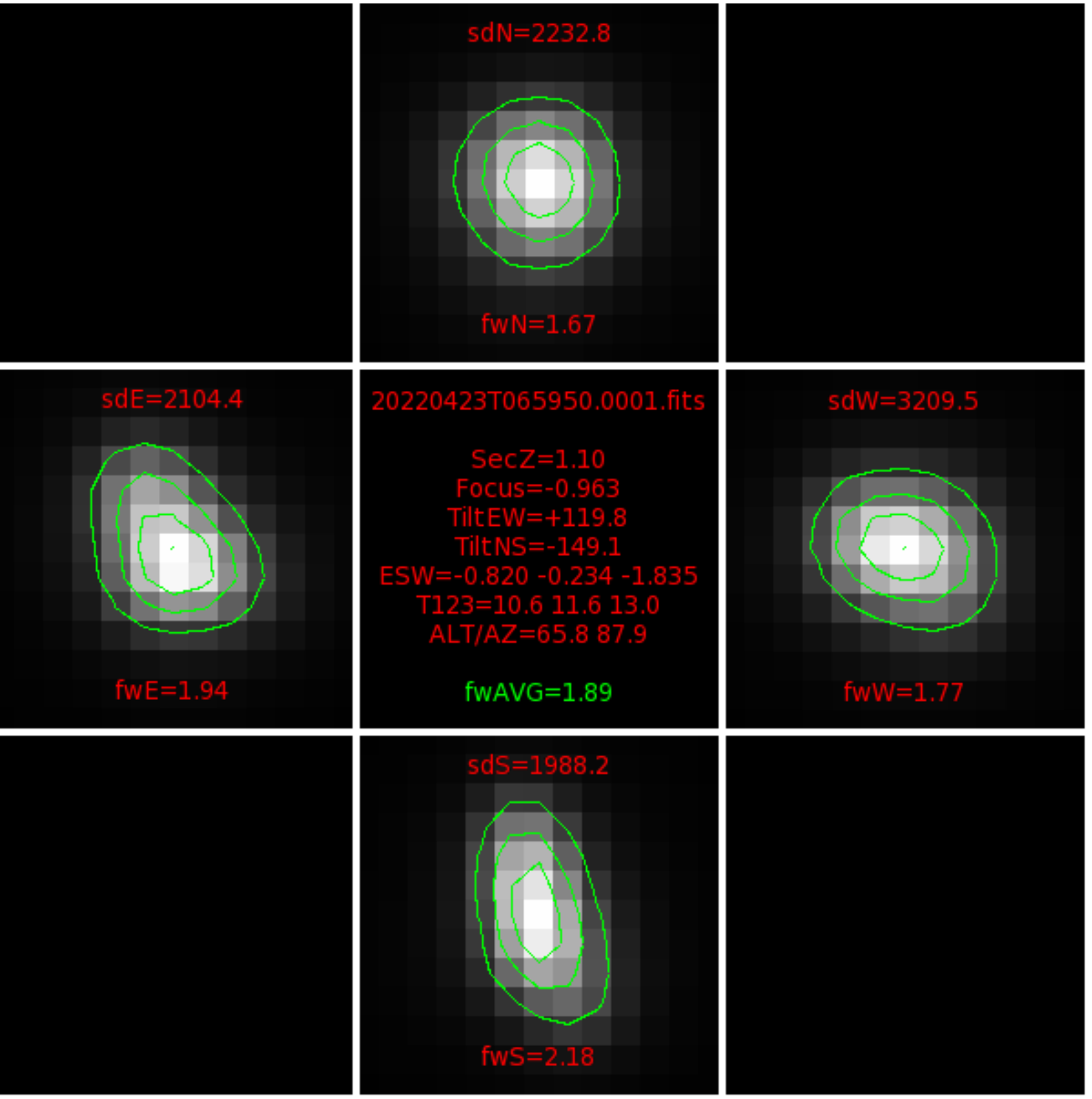
sdN=2232.8
fwN=1.67
sdE=2104.4
fwE=1.94
20220423T065950.0001.fits
SecZ=1.10
Focus=-0.963
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.820 -0.234 -1.835
T123=10.6 11.6 13.0
ALT/AZ=65.8 87.9
fwAVG=1.89
sdW=3209.5
fwW=1.77
sdS=1988.2
fwS=2.18
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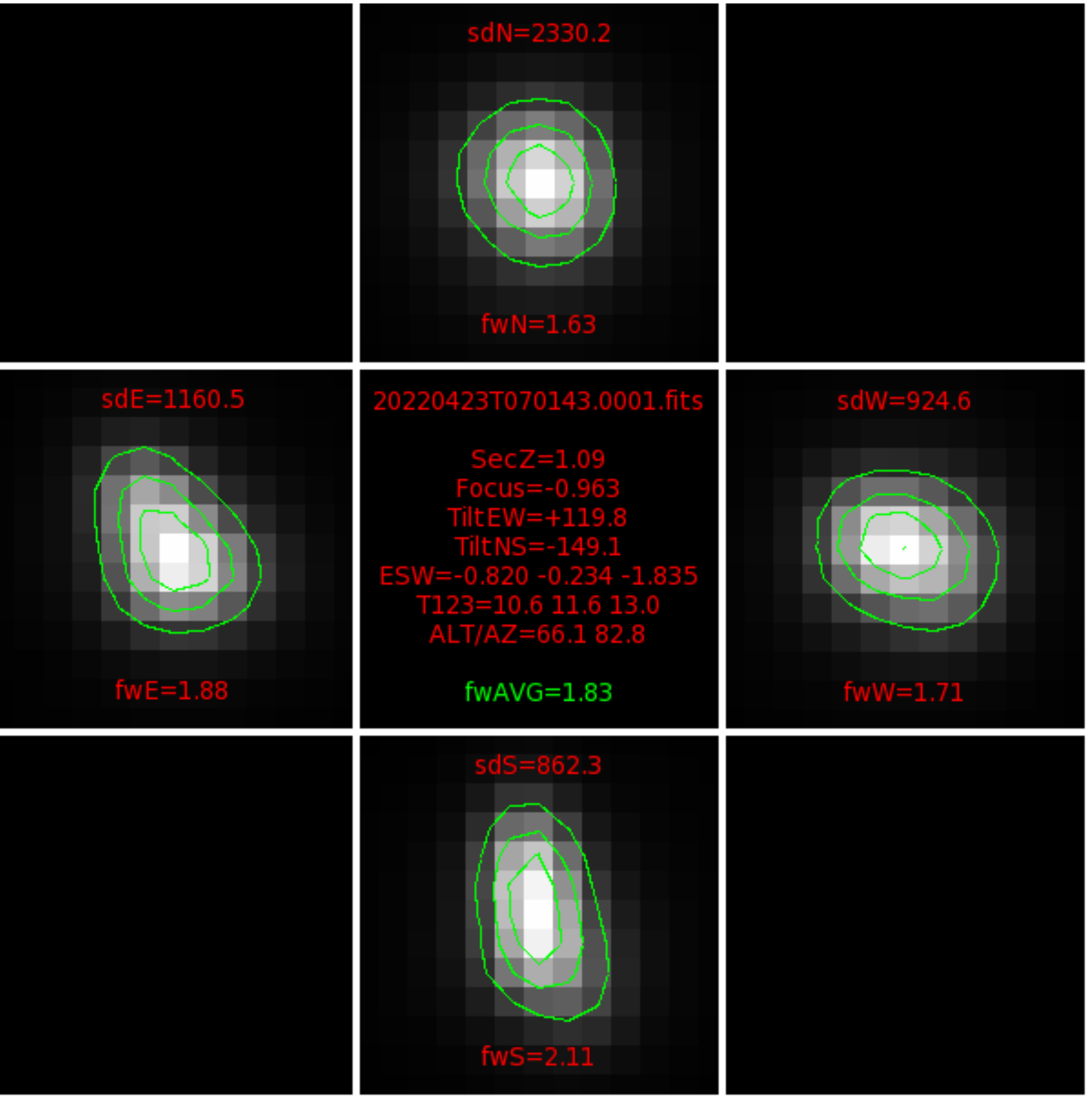
sdN=2330.2
fwN=1.63
sdE=1160.5
fwE=1.88
20220423T070143.0001.fits
SecZ=1.09
Focus=-0.963
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.820 -0.234 -1.835
T123=10.6 11.6 13.0
ALT/AZ=66.1 82.8
fwAVG=1.83
sdW=924.6
fwW=1.71
sdS=862.3
fwS=2.11
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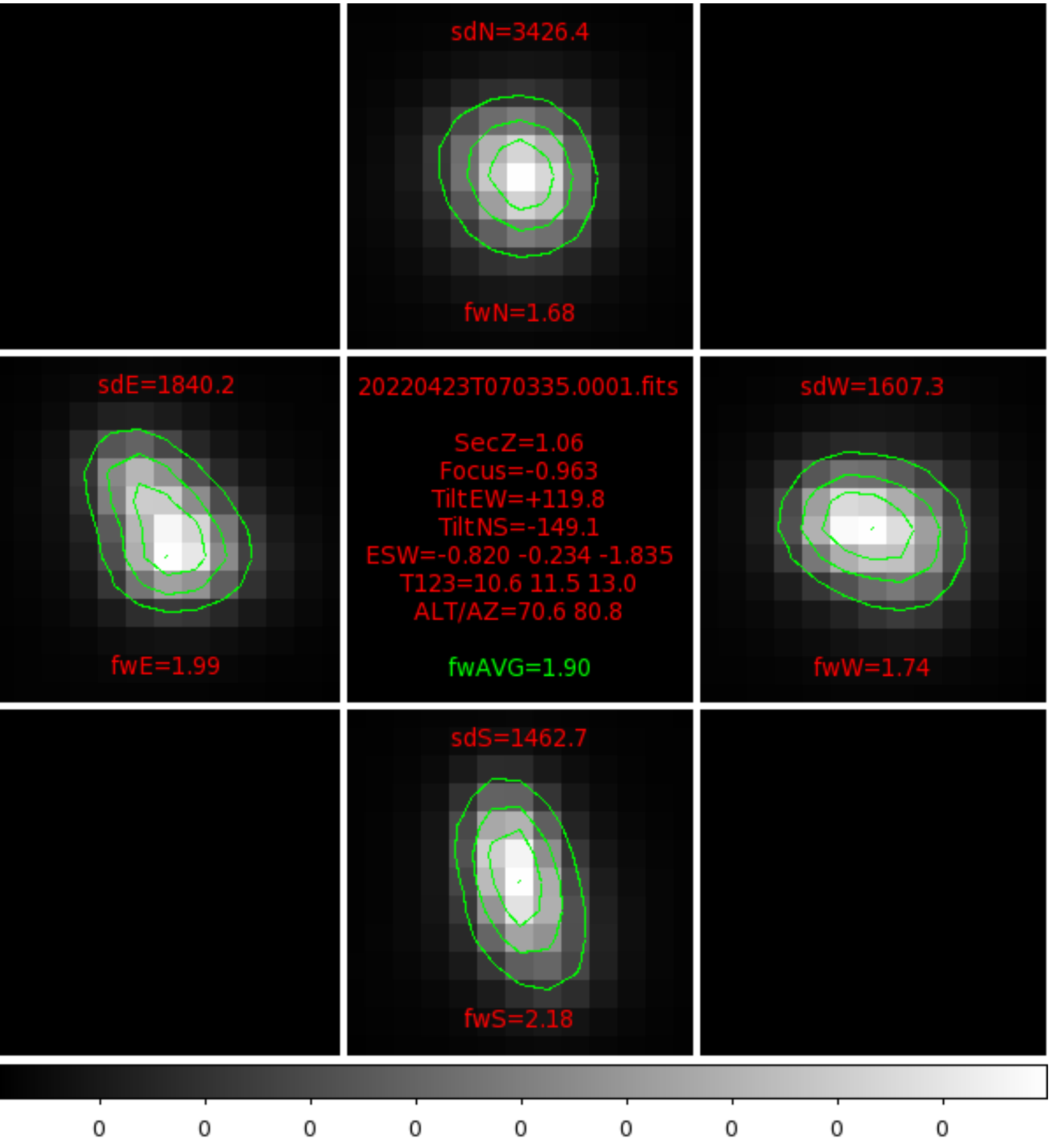
sdN=3426.4
fwN=1.68
sdE=1840.2
fwE=1.99
20220423T070335.0001.fits
SecZ=1.06
Focus=-0.963
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.820 -0.234 -1.835
T123=10.6 11.5 13.0
ALT/AZ=70.6 80.8
fwAVG=1.90
sdW=1607.3
fwW=1.74
sdS=1462.7
fwS=2.18
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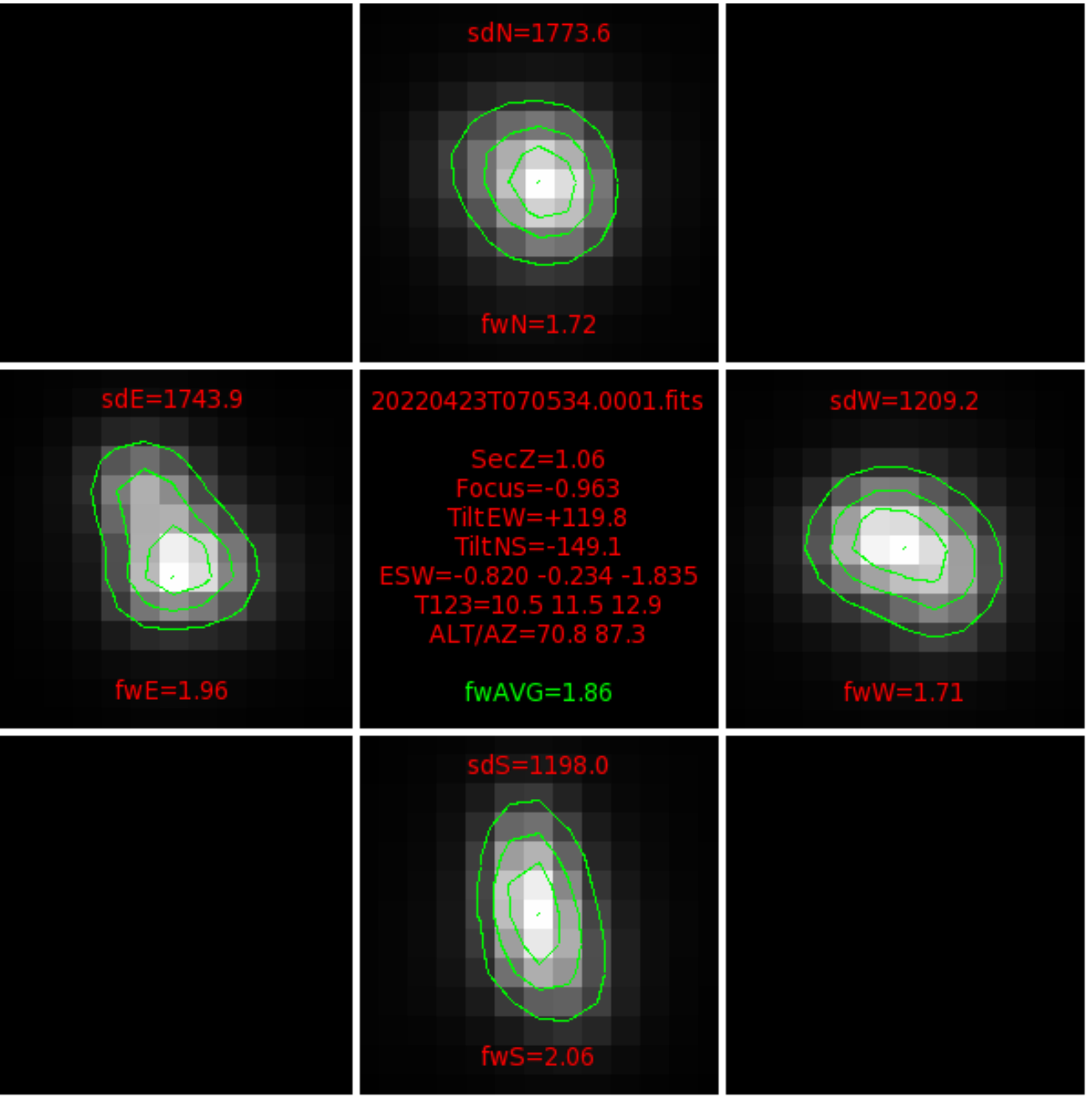
sdN=1773.6
fwN=1.72
sdE=1743.9
fwE=1.96
20220423T070534.0001.fits
SecZ=1.06
Focus=-0.963
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.820 -0.234 -1.835
T123=10.5 11.5 12.9
ALT/AZ=70.8 87.3
fwAVG=1.86
sdW=1209.2
fwW=1.71
sdS=1198.0
fwS=2.06
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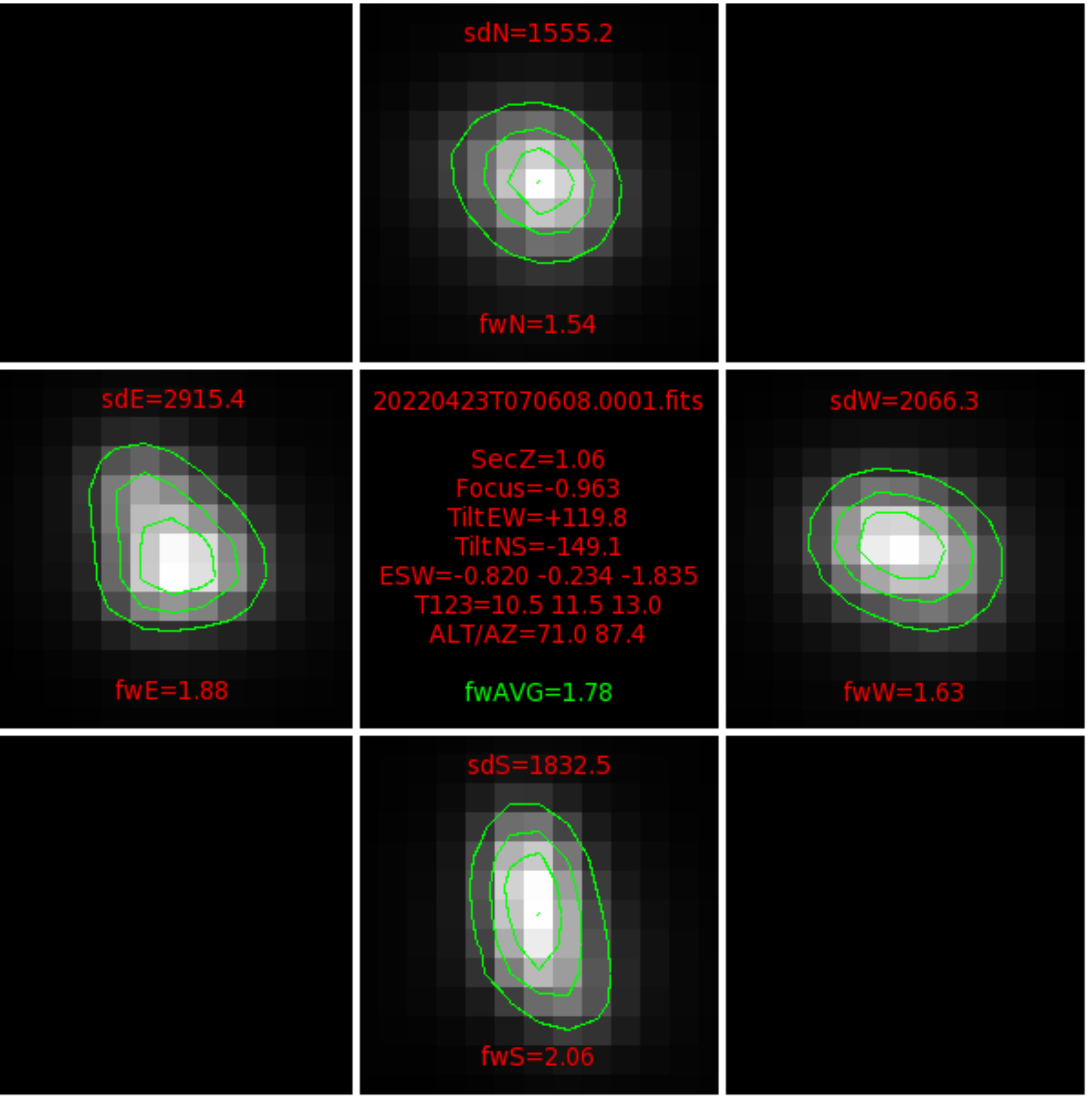
sdN=1555.2
fwN=1.54
sdE=2915.4
fwE=1.88
20220423T070608.0001.fits
SecZ=1.06
Focus=-0.963
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.820 -0.234 -1.835
T123=10.5 11.5 13.0
ALT/AZ=71.0 87.4
fwAVG=1.78
sdW=2066.3
fwW=1.63
sdS=1832.5
fwS=2.06
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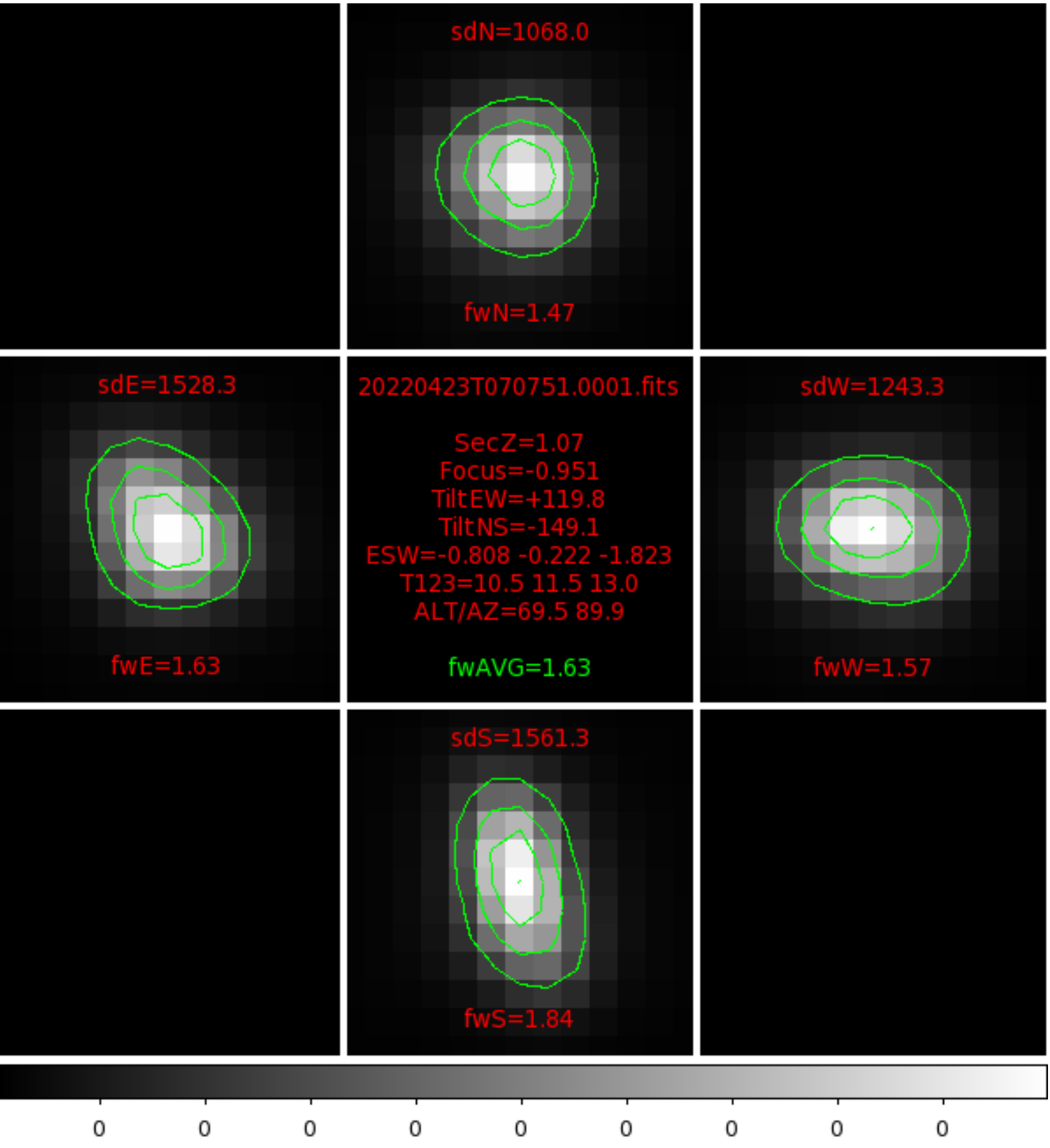
sdN=1068.0
fwN=1.47
sdE=1528.3
fwE=1.63
20220423T070751.0001.fits
SecZ=1.07
Focus=-0.951
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.808 -0.222 -1.823
T123=10.5 11.5 13.0
ALT/AZ=69.5 89.9
fwAVG=1.63
sdW=1243.3
fwW=1.57
sdS=1561.3
fwS=1.84
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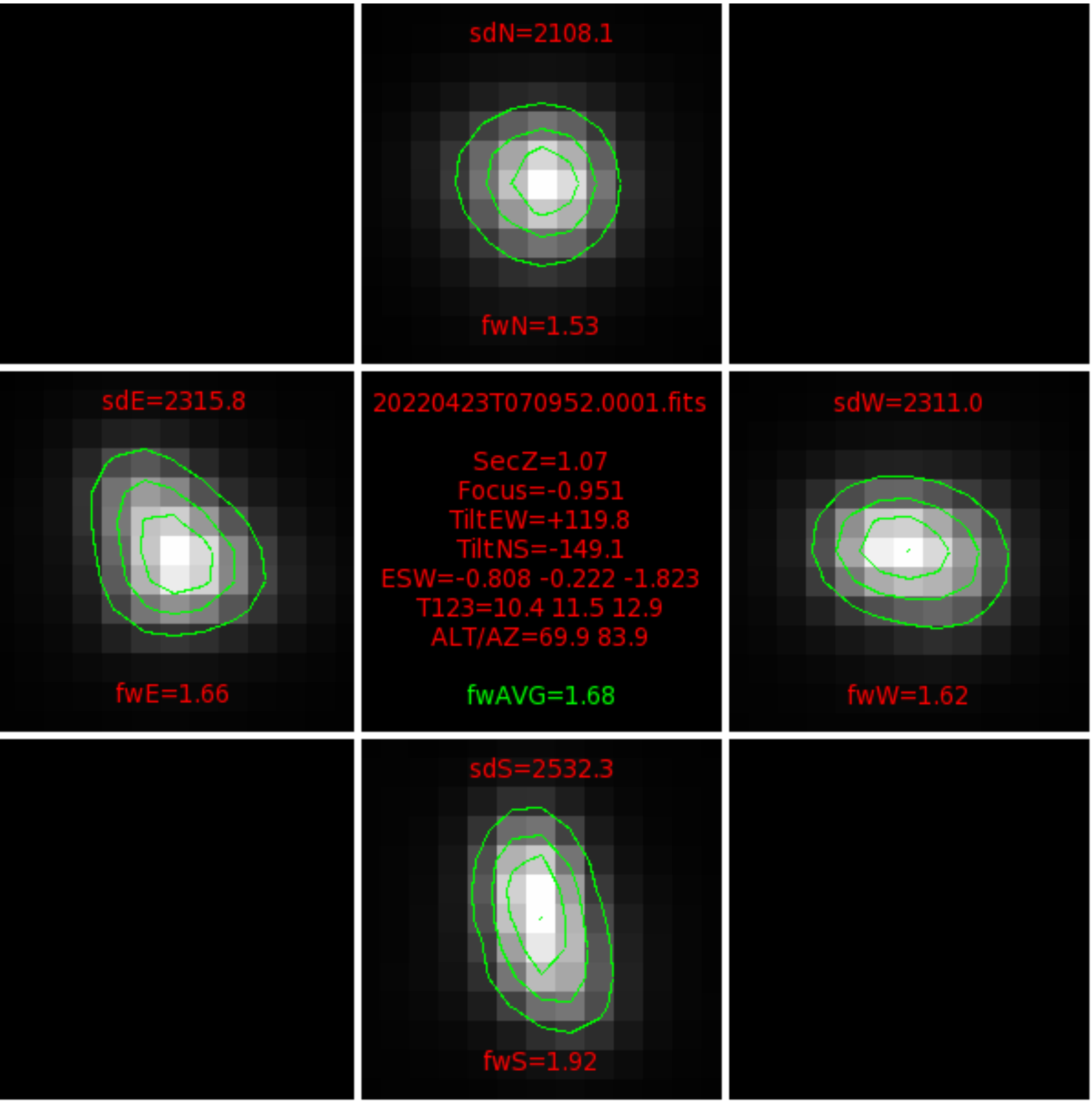
sdN=2108.1
fwN=1.53
sdE=2315.8
fwE=1.66
20220423T070952.0001.fits
SecZ=1.07
Focus=-0.951
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.808 -0.222 -1.823
T123=10.4 11.5 12.9
ALT/AZ=69.9 83.9
fwAVG=1.68
sdW=2311.0
fwW=1.62
sdS=2532.3
fwS=1.92
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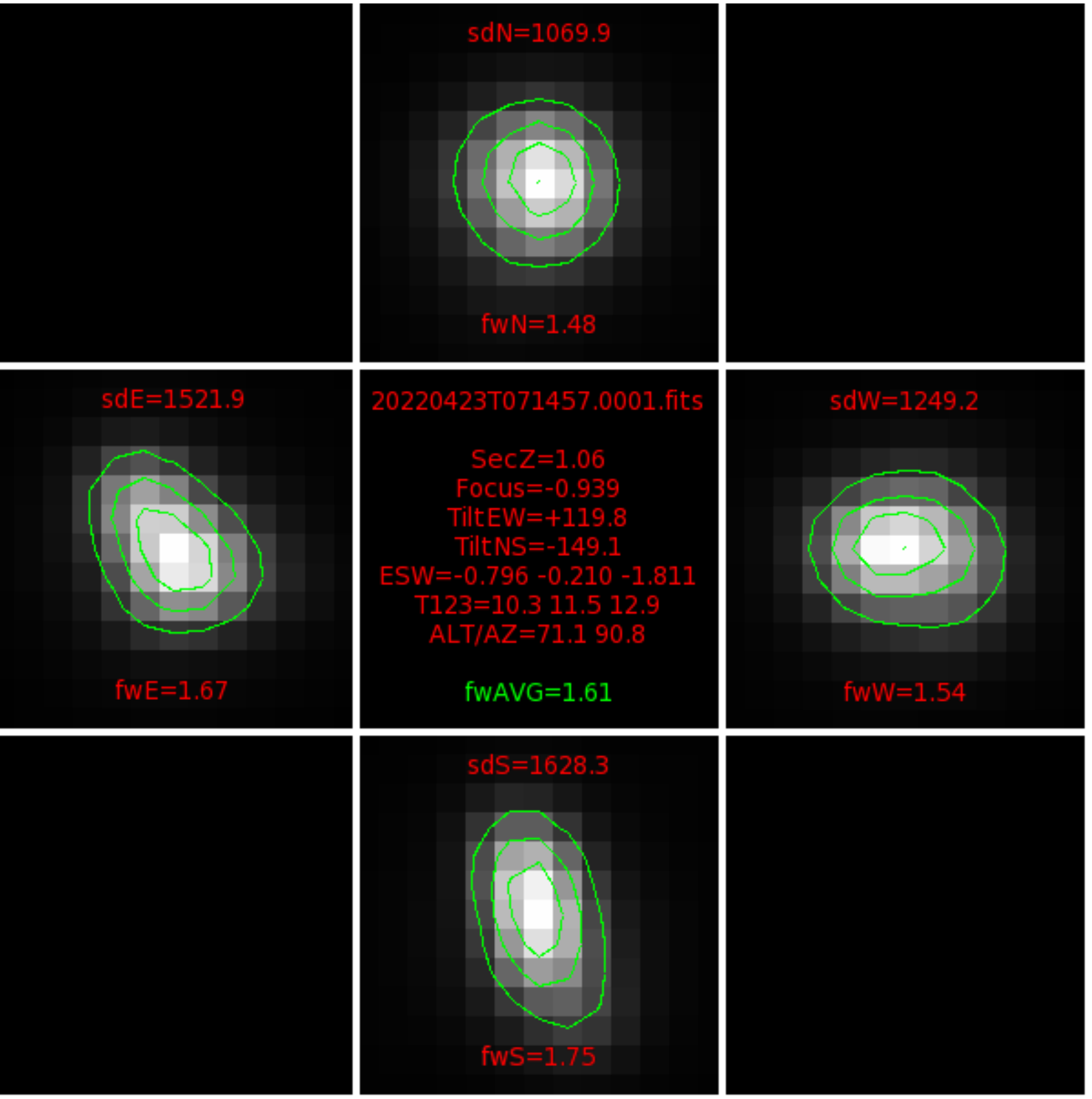
sdN=1069.9
fwN=1.48
sdE=1521.9
fwE=1.67
20220423T071457.0001.fits
SecZ=1.06
Focus=-0.939
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.796 -0.210 -1.811
T123=10.3 11.5 12.9
ALT/AZ=71.1 90.8
fwAVG=1.61
sdW=1249.2
fwW=1.54
sdS=1628.3
fwS=1.75
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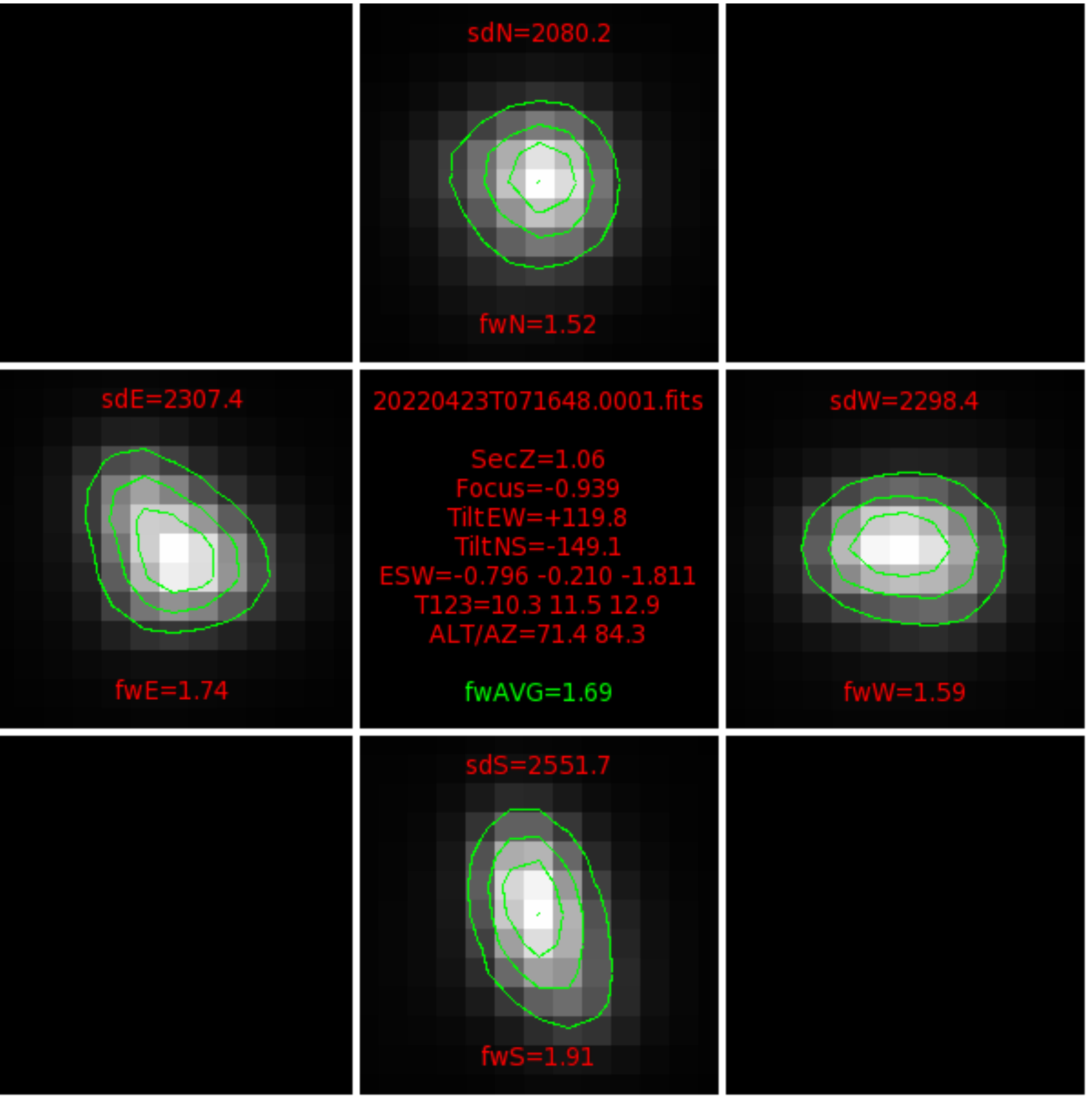
sdN=2080.2
fwN=1.52
sdE=2307.4
fwE=1.74
20220423T071648.0001.fits
SecZ=1.06
Focus=-0.939
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.796 -0.210 -1.811
T123=10.3 11.5 12.9
ALT/AZ=71.4 84.3
fwAVG=1.69
sdW=2298.4
fwW=1.59
sdS=2551.7
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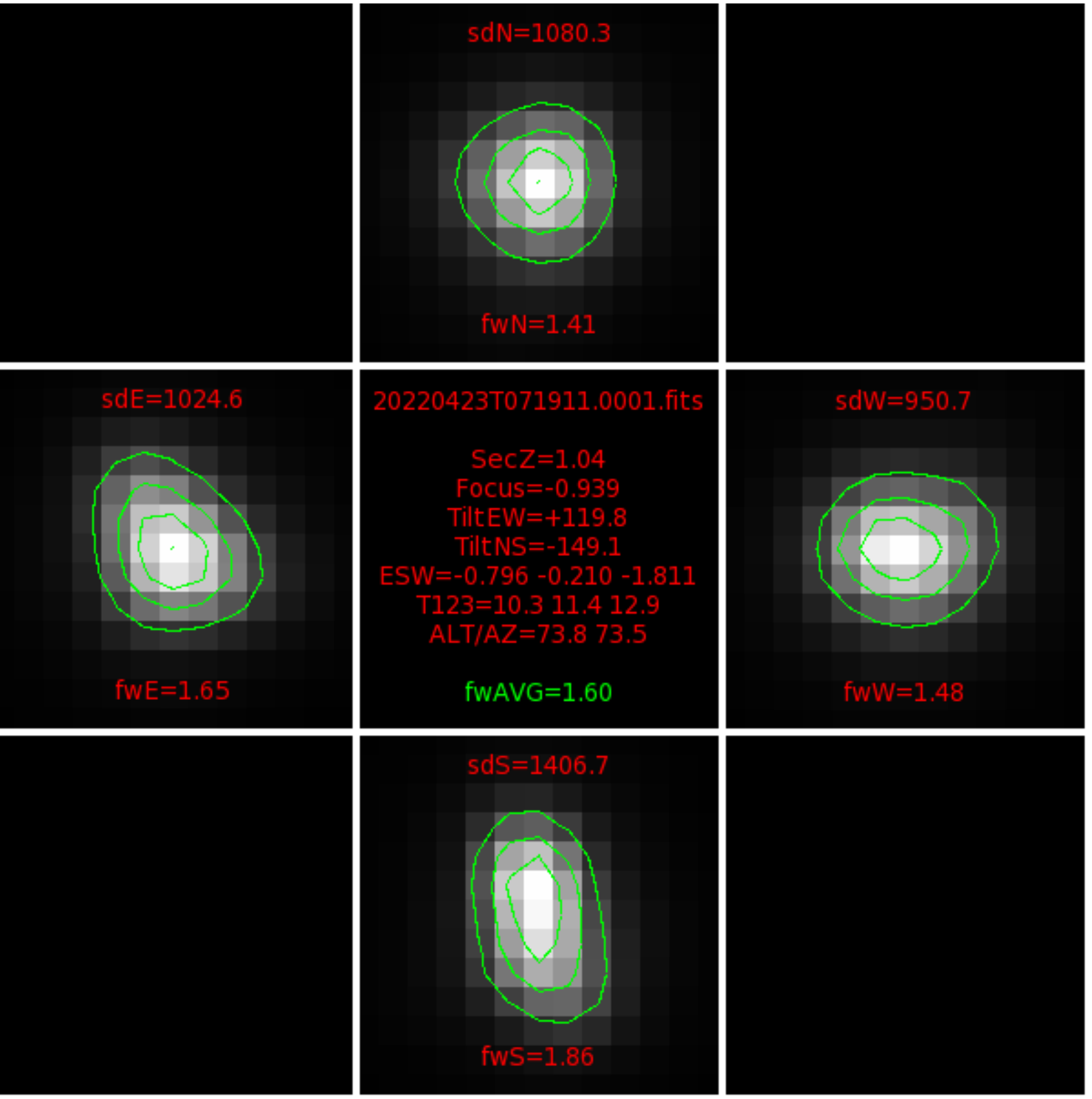
sdN=1080.3
fwN=1.41
sdE=1024.6
fwE=1.65
20220423T071911.0001.fits
SecZ=1.04
Focus=-0.939
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.796 -0.210 -1.811
T123=10.3 11.4 12.9
ALT/AZ=73.8 73.5
fwAVG=1.60
sdW=950.7
fwW=1.48
sdS=1406.7
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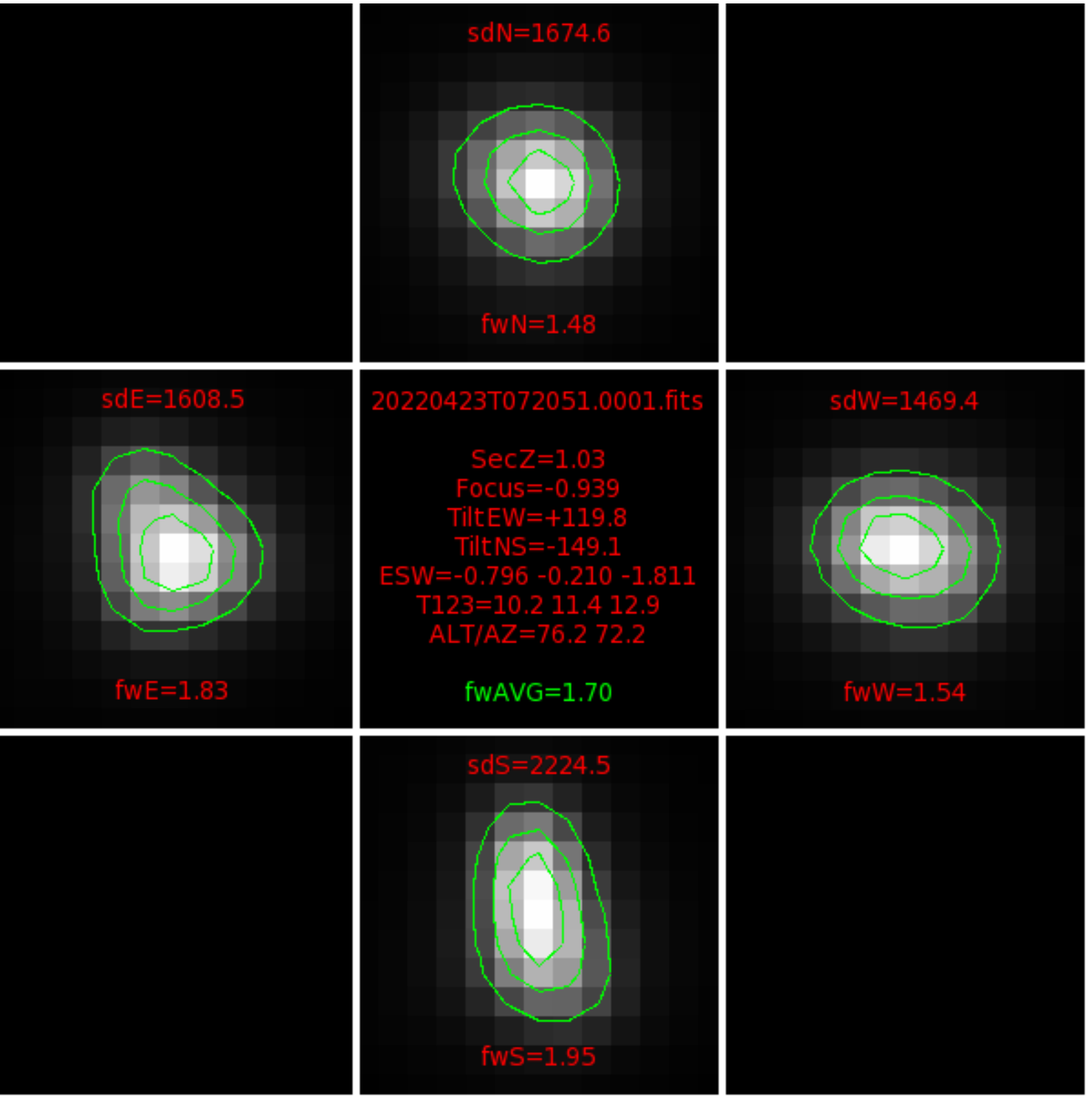
sdN=1674.6
fwN=1.48
sdE=1608.5
fwE=1.83
20220423T072051.0001.fits
SecZ=1.03
Focus=-0.939
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.796 -0.210 -1.811
T123=10.2 11.4 12.9
ALT/AZ=76.2 72.2
fwAVG=1.70
sdW=1469.4
fwW=1.54
sdS=2224.5
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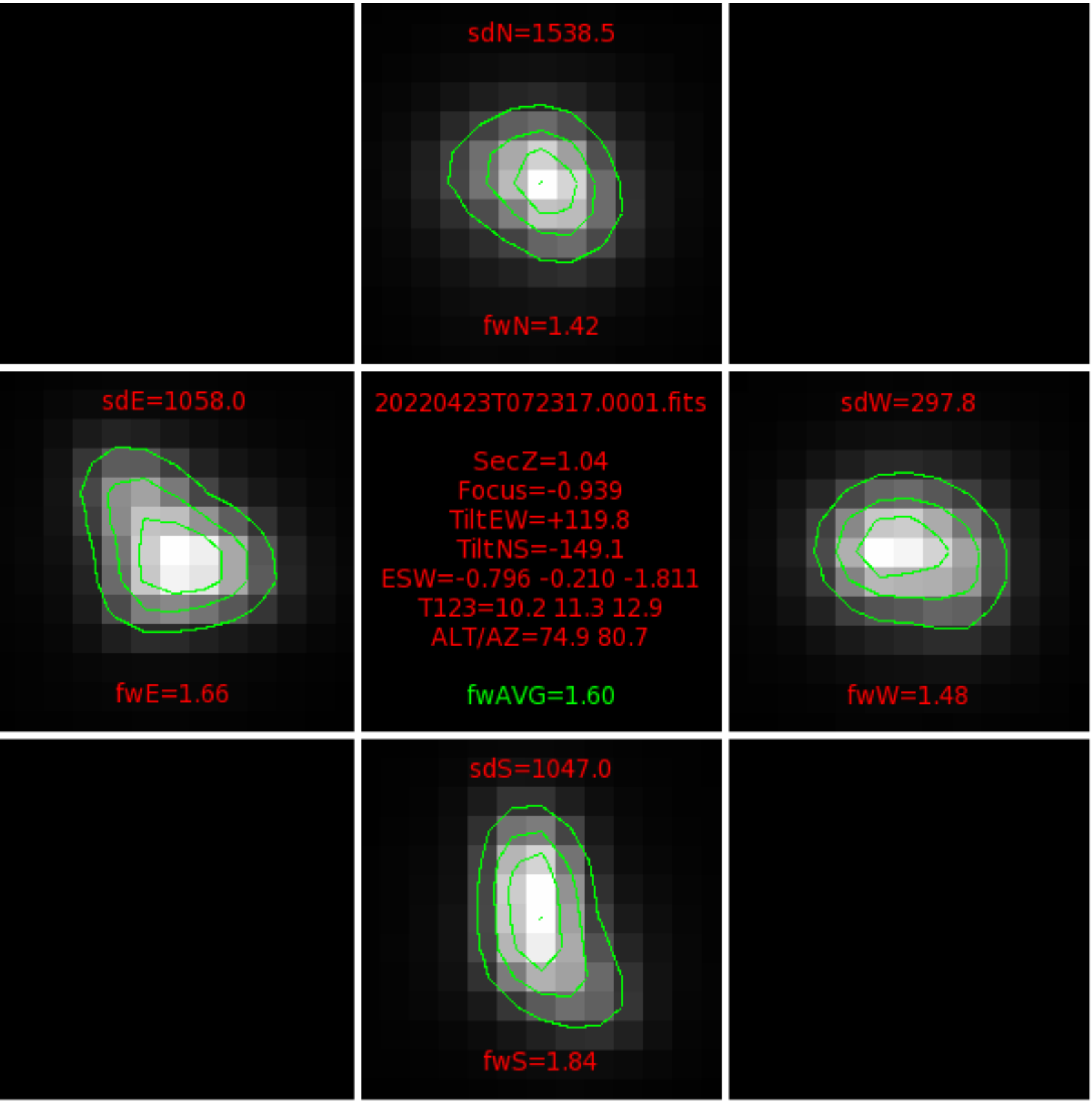
sdN=1538.5
fwN=1.42
sdE=1058.0
fwE=1.66
20220423T072317.0001.fits
SecZ=1.04
Focus=-0.939
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.796 -0.210 -1.811
T123=10.2 11.3 12.9
ALT/AZ=74.9 80.7
fwAVG=1.60
sdW=297.8
fwW=1.48
sdS=1047.0
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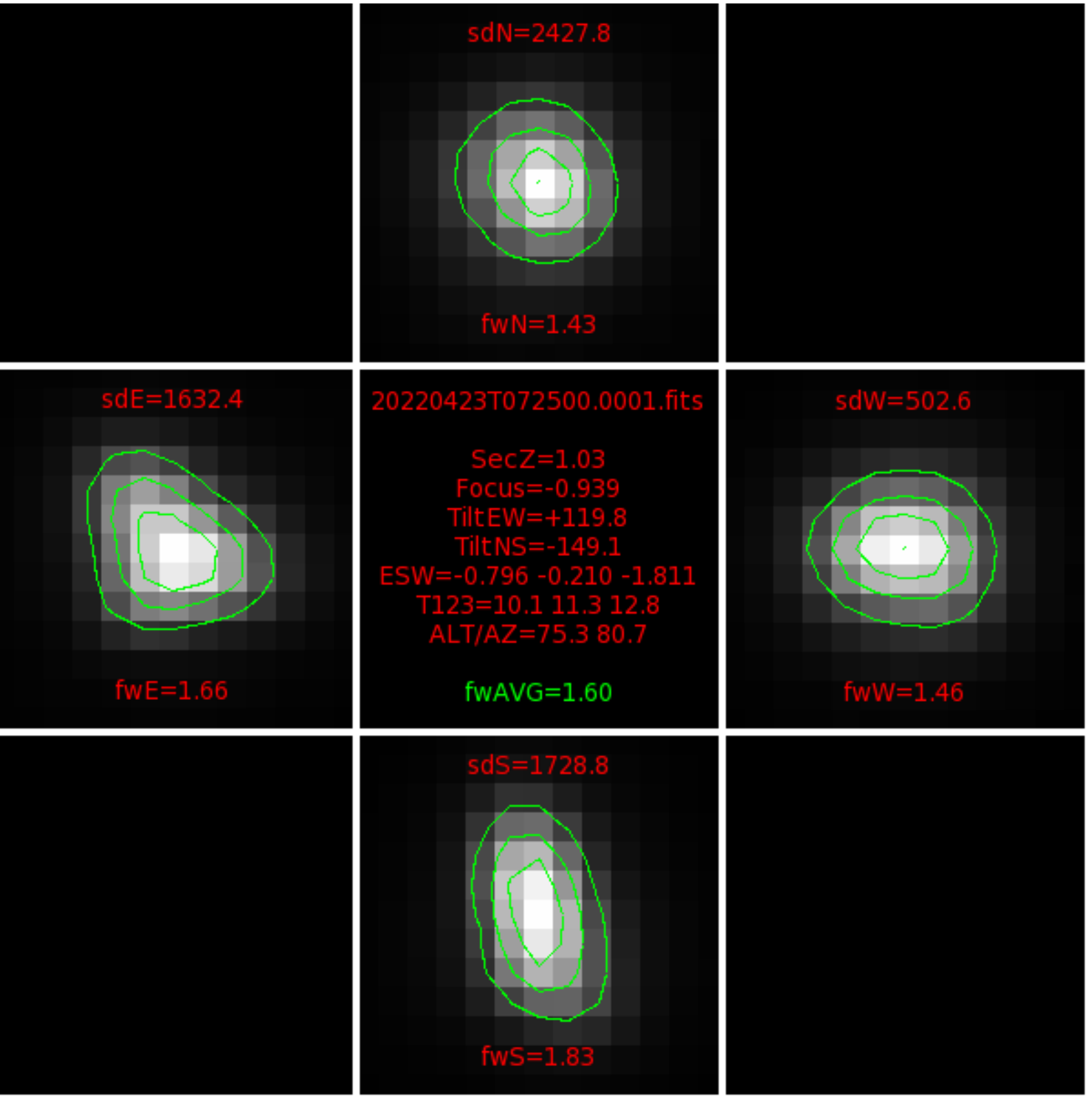
sdN=2427.8
fwN=1.43
sdE=1632.4
fwE=1.66
20220423T072500.0001.fits
SecZ=1.03
Focus=-0.939
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.796 -0.210 -1.811
T123=10.1 11.3 12.8
ALT/AZ=75.3 80.7
fwAVG=1.60
sdW=502.6
fwW=1.46
sdS=1728.8
fwS=1.83
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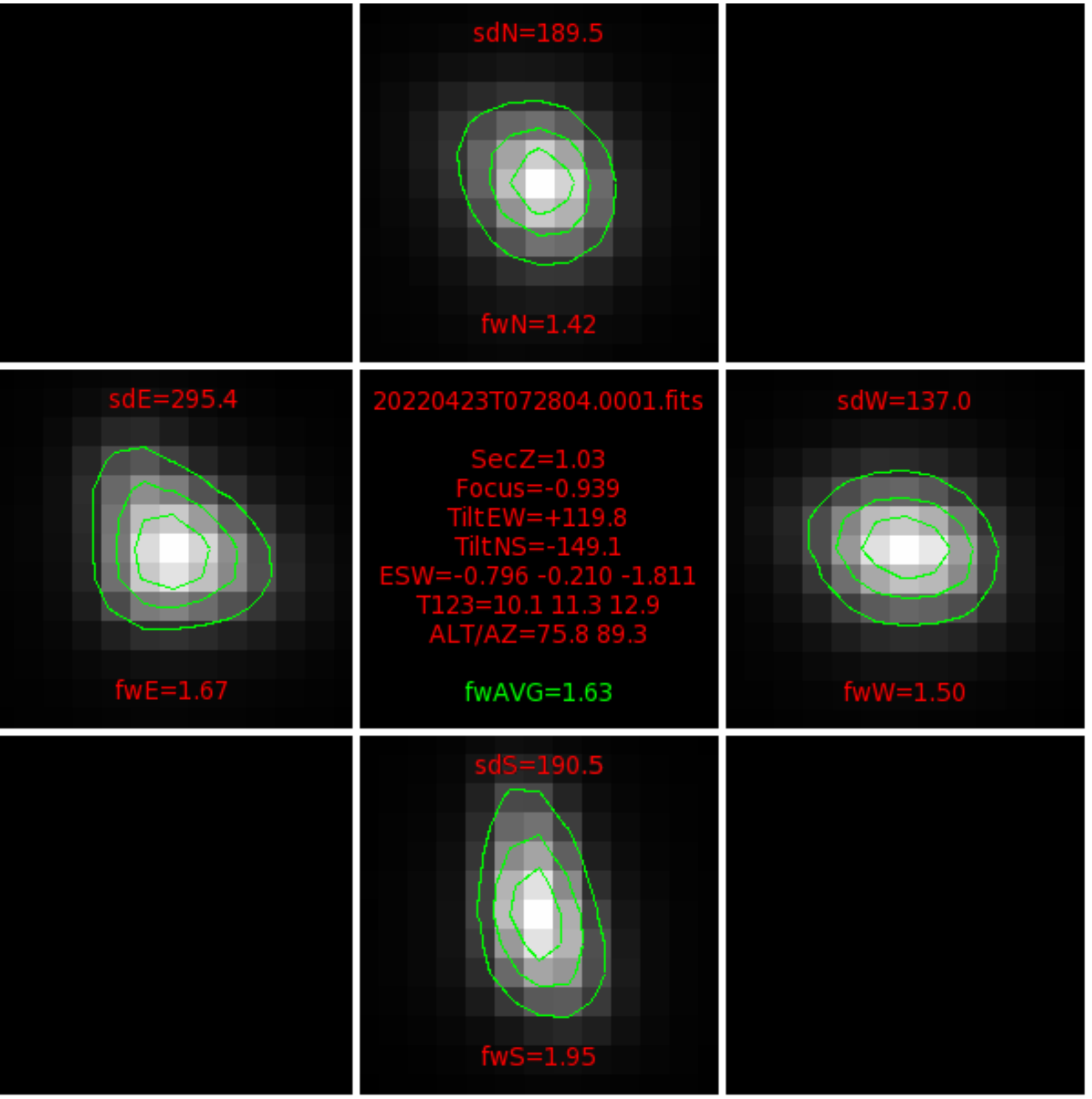
sdN=189.5
fwN=1.42
sdE=295.4
fwE=1.67
20220423T072804.0001.fits
SecZ=1.03
Focus=-0.939
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.796 -0.210 -1.811
T123=10.1 11.3 12.9
ALT/AZ=75.8 89.3
fwAVG=1.63
sdW=137.0
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sdS=190.5
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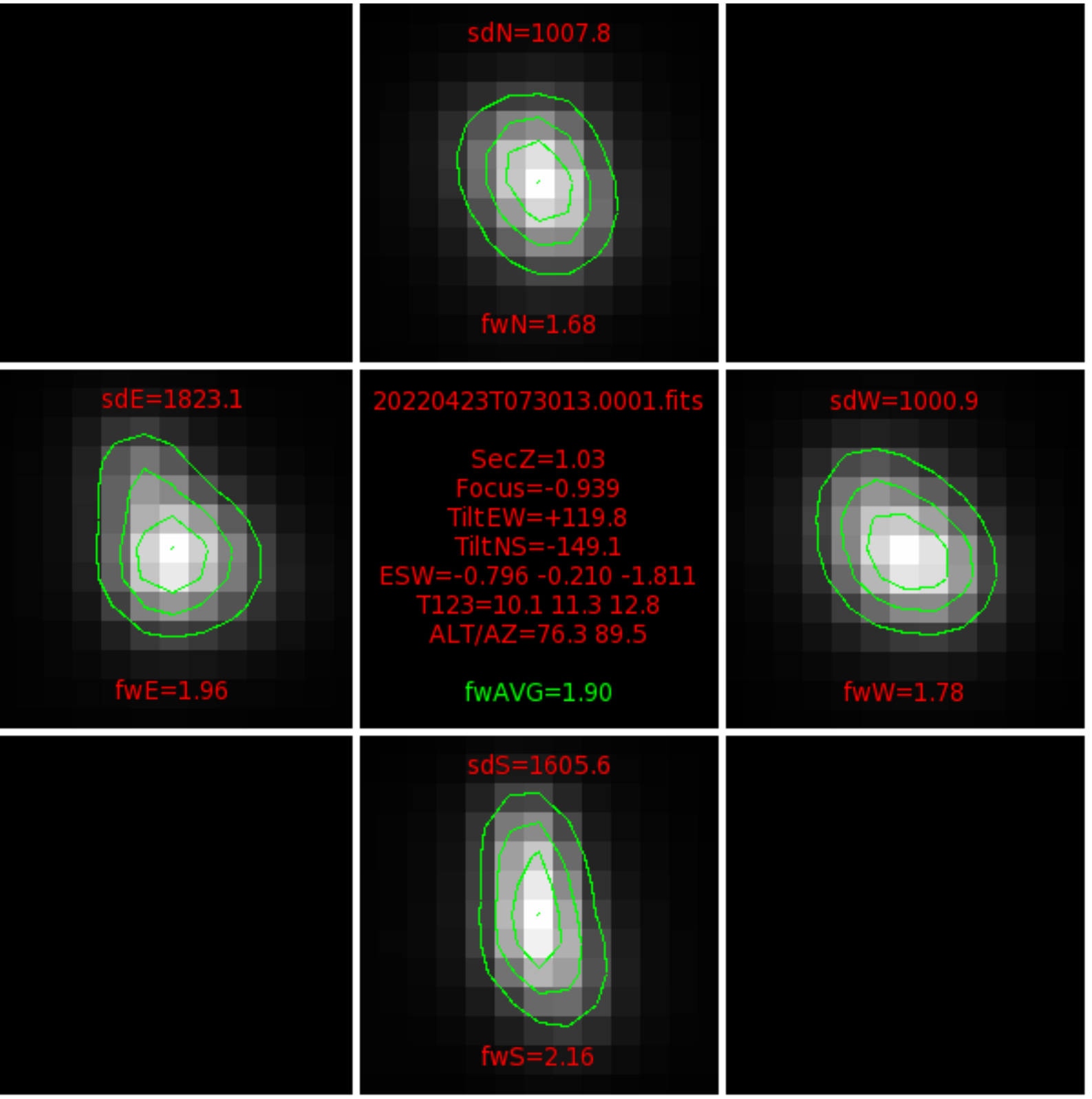
sdN=1007.8
fwN=1.68
sdE=1823.1
fwE=1.96
20220423T073013.0001.fits
SecZ=1.03
Focus=-0.939
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.796 -0.210 -1.811
T123=10.1 11.3 12.8
ALT/AZ=76.3 89.5
fwAVG=1.90
sdW=1000.9
fwW=1.78
sdS=1605.6
fwS=2.16
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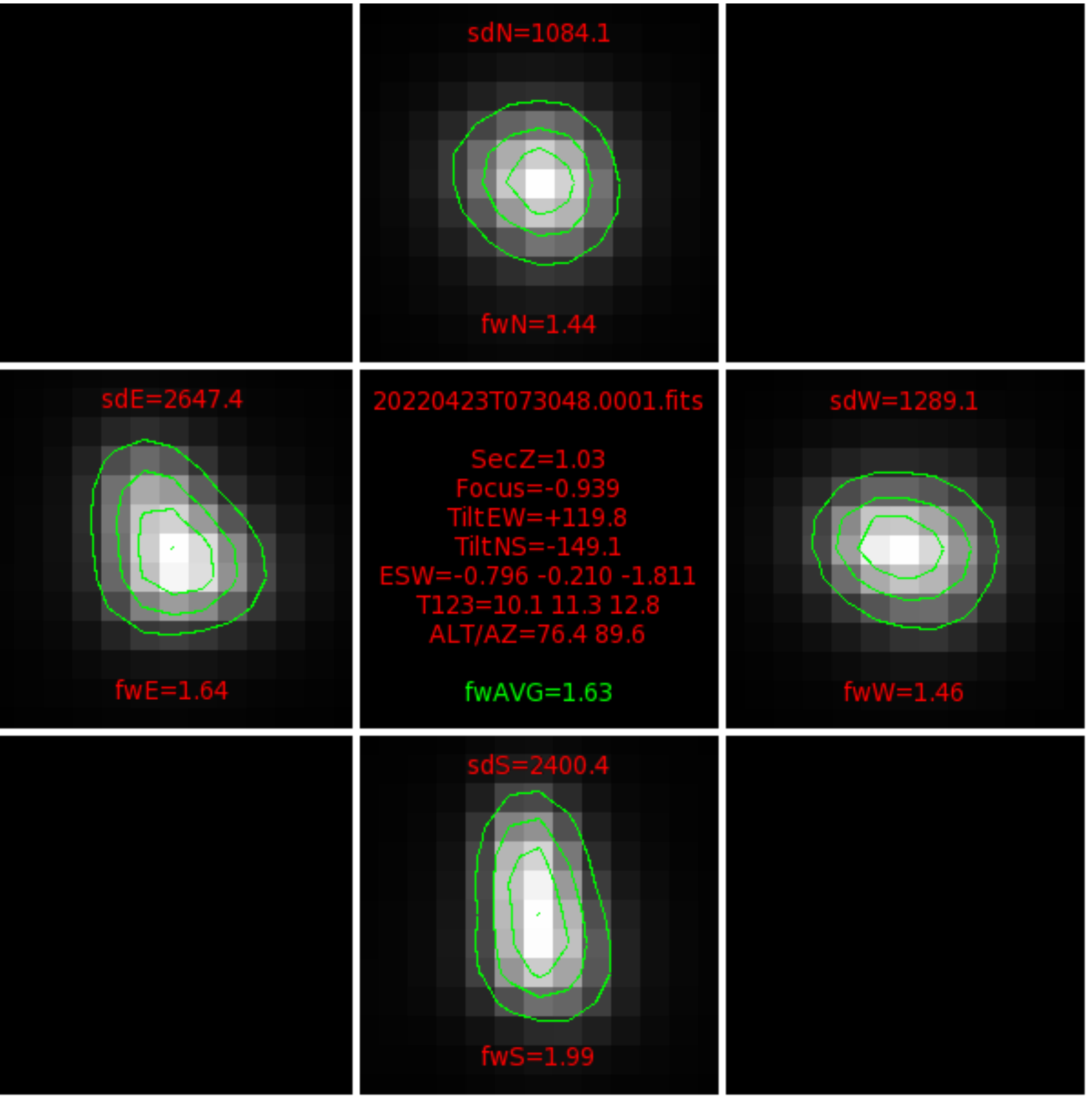
sdN=1084.1
fwN=1.44
sdE=2647.4
fwE=1.64
20220423T073048.0001.fits
SecZ=1.03
Focus=-0.939
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.796 -0.210 -1.811
T123=10.1 11.3 12.8
ALT/AZ=76.4 89.6
fwAVG=1.63
sdW=1289.1
fwW=1.46
sdS=2400.4
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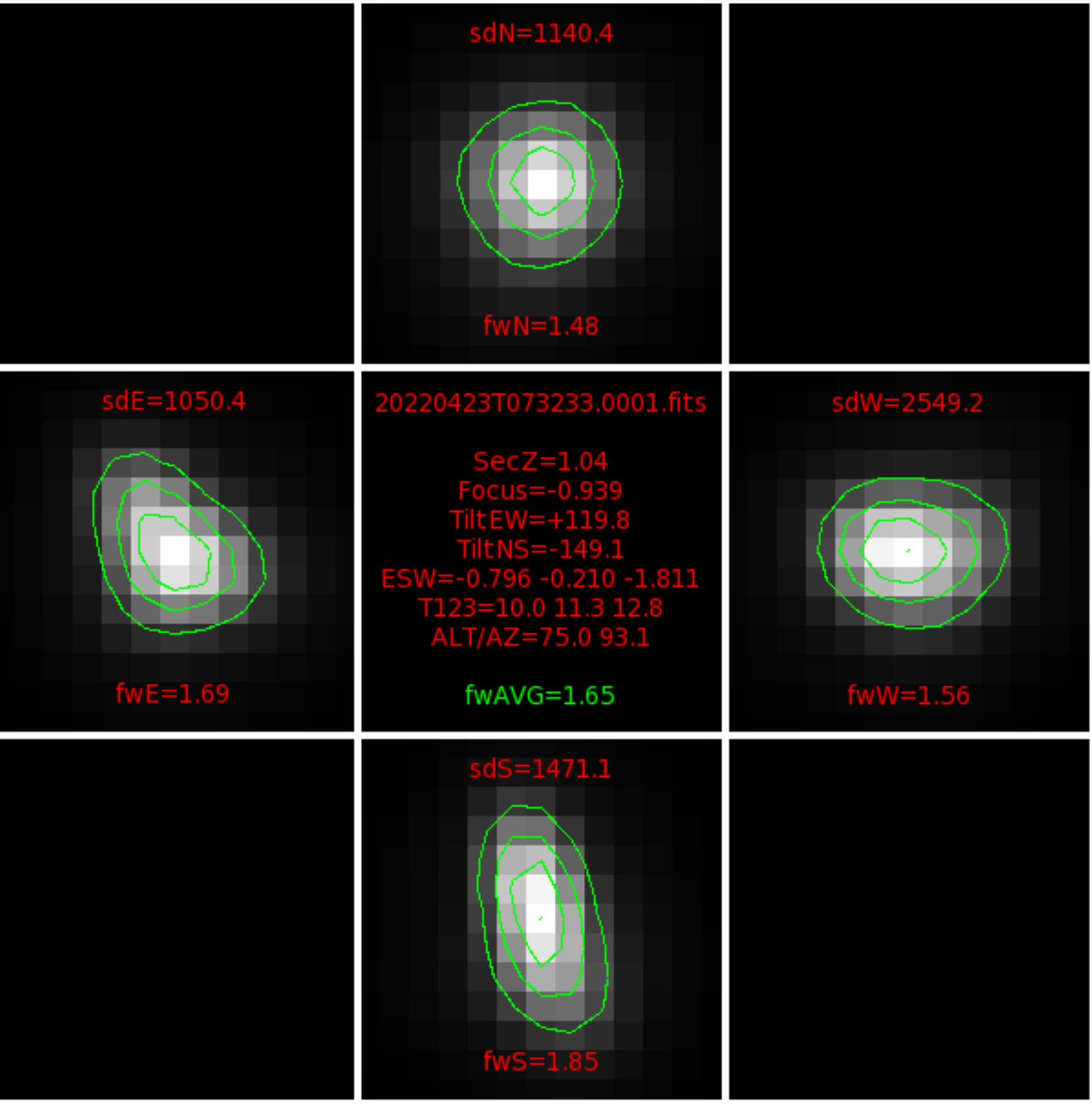
sdN=1140.4
fwN=1.48
sdE=1050.4
fwE=1.69
20220423T073233.0001.fits
SecZ=1.04
Focus=-0.939
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.796 -0.210 -1.811
T123=10.0 11.3 12.8
ALT/AZ=75.0 93.1
fwAVG=1.65
sdW=2549.2
fwW=1.56
sdS=1471.1
fwS=1.85
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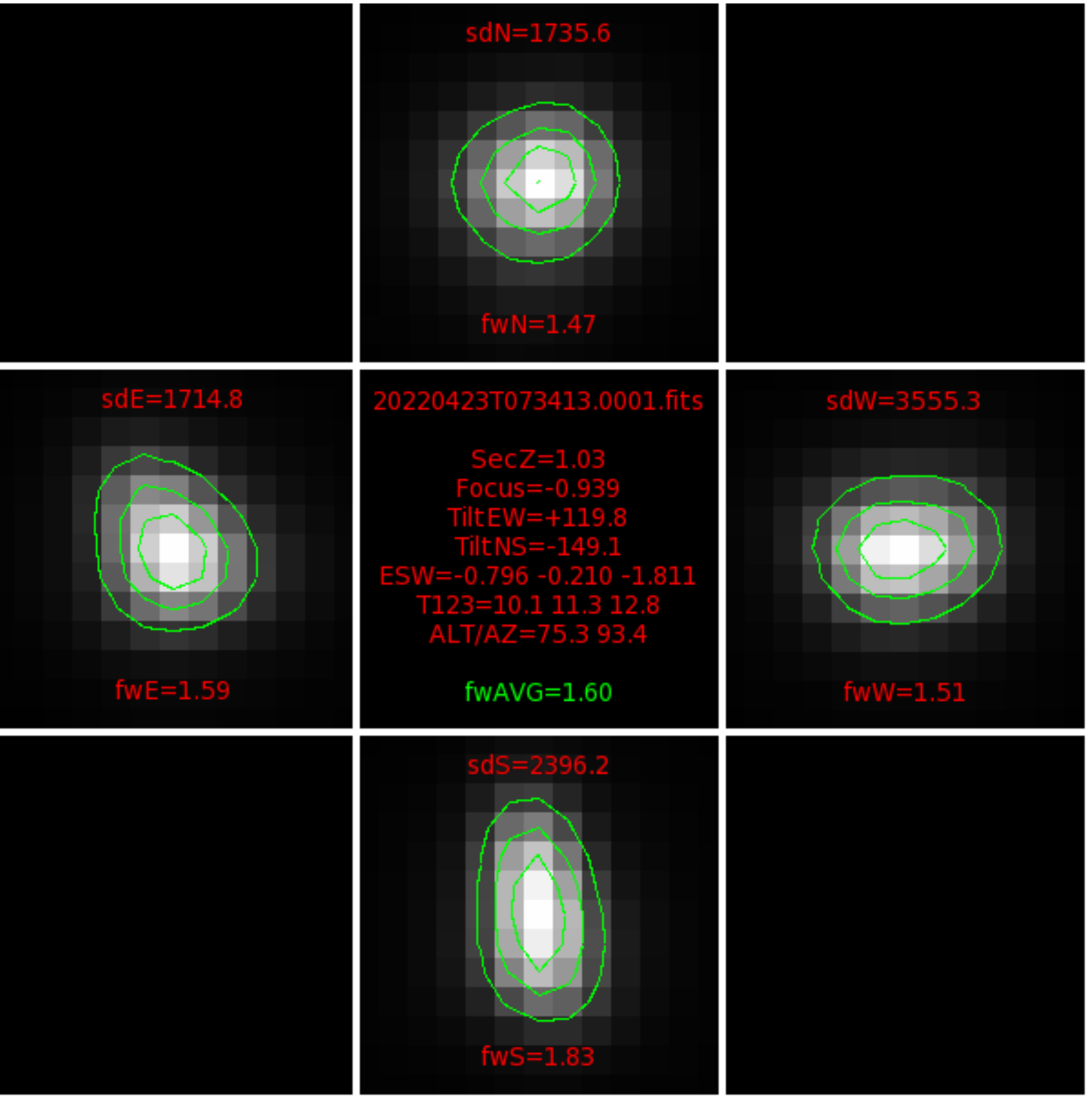
sdN=1735.6
fwN=1.47
sdE=1714.8
fwE=1.59
20220423T073413.0001.fits
SecZ=1.03
Focus=-0.939
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.796 -0.210 -1.811
T123=10.1 11.3 12.8
ALT/AZ=75.3 93.4
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sdW=3555.3
fwW=1.51
sdS=2396.2
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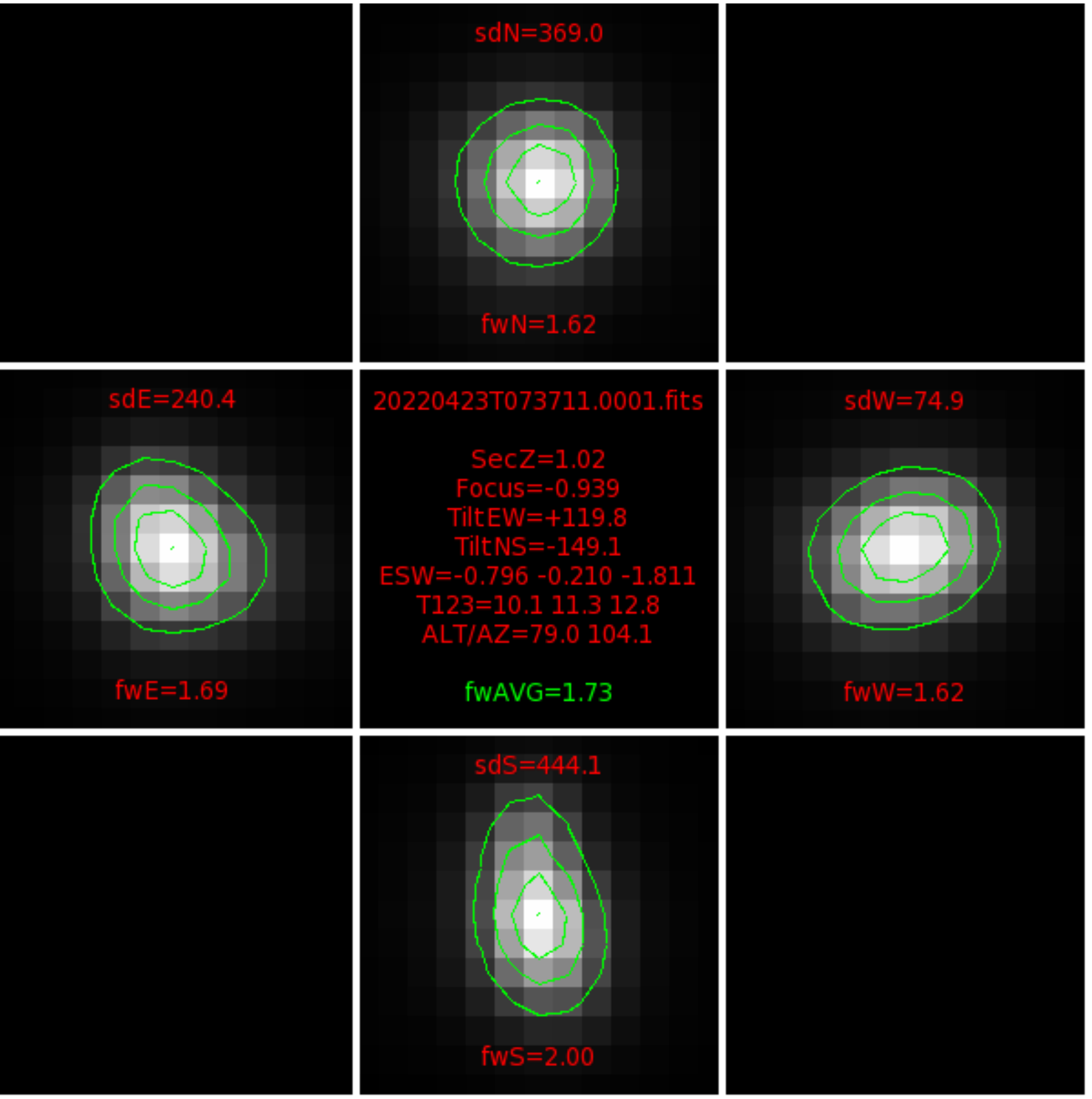
sdN=369.0
fwN=1.62
sdE=240.4
fwE=1.69
20220423T073711.0001.fits
SecZ=1.02
Focus=-0.939
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.796 -0.210 -1.811
T123=10.1 11.3 12.8
ALT/AZ=79.0 104.1
fwAVG=1.73
sdW=74.9
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sdS=444.1
fwS=2.00
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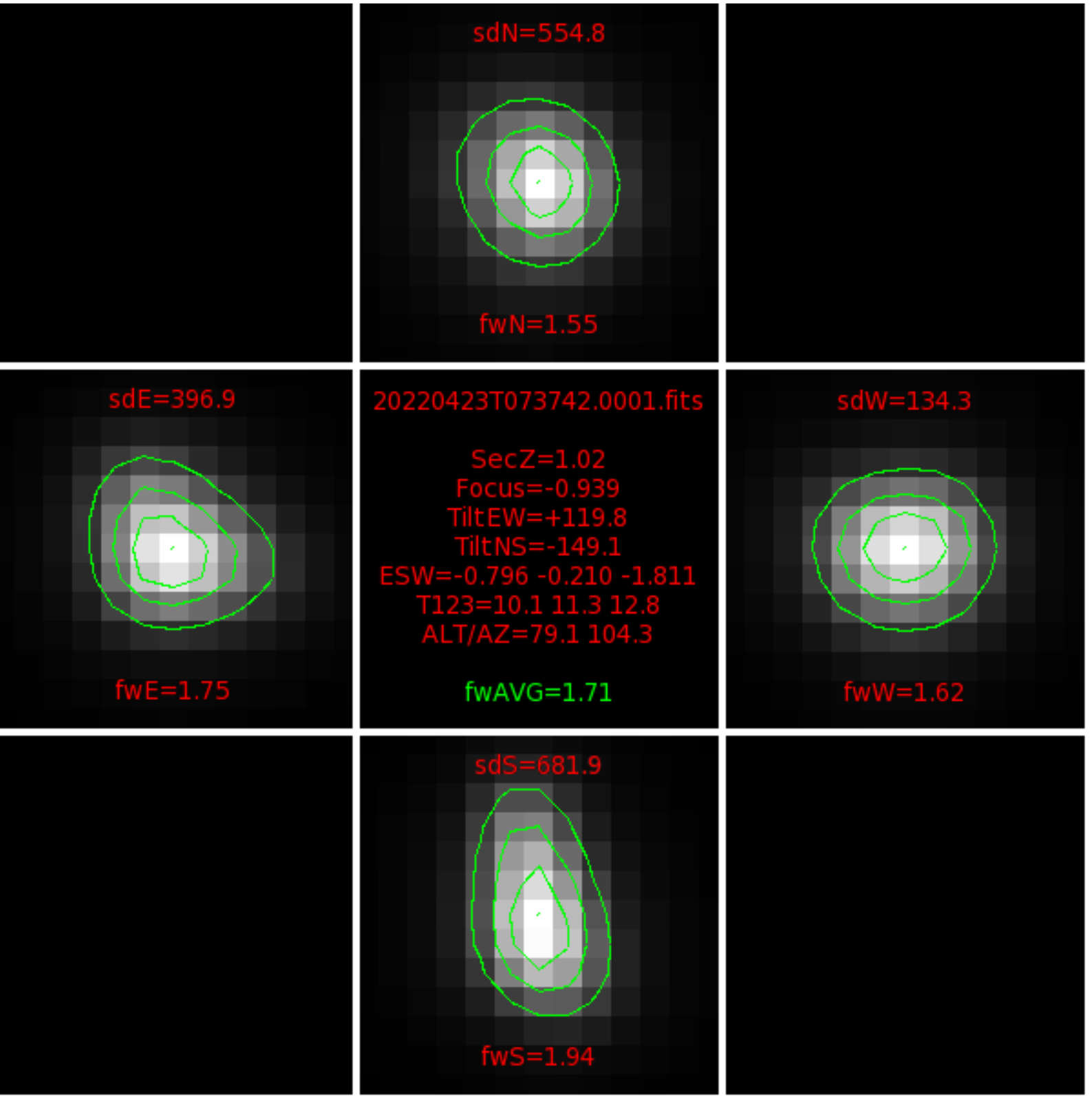
sdN=554.8
fwN=1.55
sdE=396.9
fwE=1.75
20220423T073742.0001.fits
SecZ=1.02
Focus=-0.939
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.796 -0.210 -1.811
T123=10.1 11.3 12.8
ALT/AZ=79.1 104.3
fwAVG=1.71
sdW=134.3
fwW=1.62
sdS=681.9
fwS=1.94
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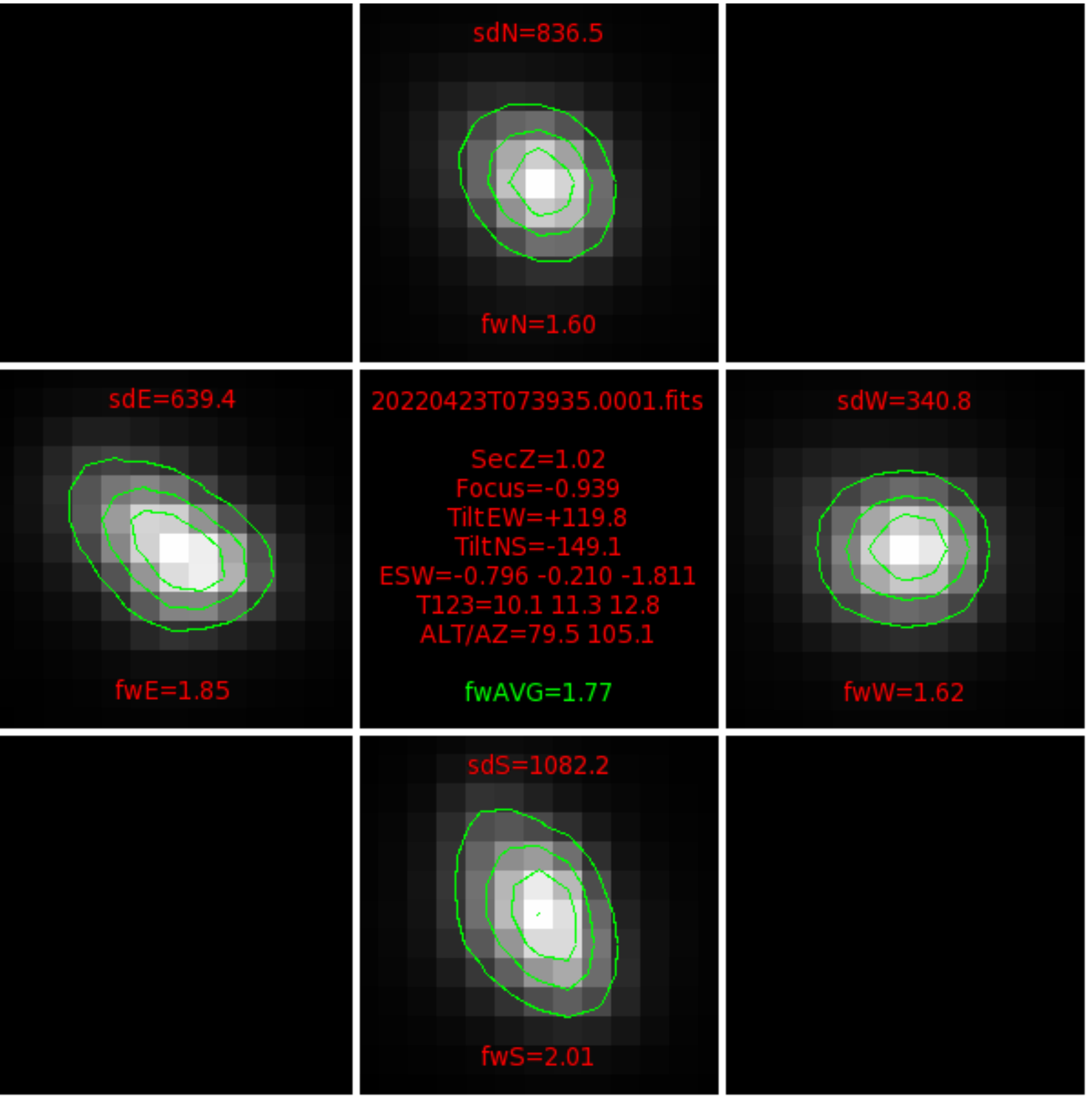
sdN=836.5
fwN=1.60
sdE=639.4
fwE=1.85
20220423T073935.0001.fits
SecZ=1.02
Focus=-0.939
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.796 -0.210 -1.811
T123=10.1 11.3 12.8
ALT/AZ=79.5 105.1
fwAVG=1.77
sdW=340.8
fwW=1.62
sdS=1082.2
fwS=2.01
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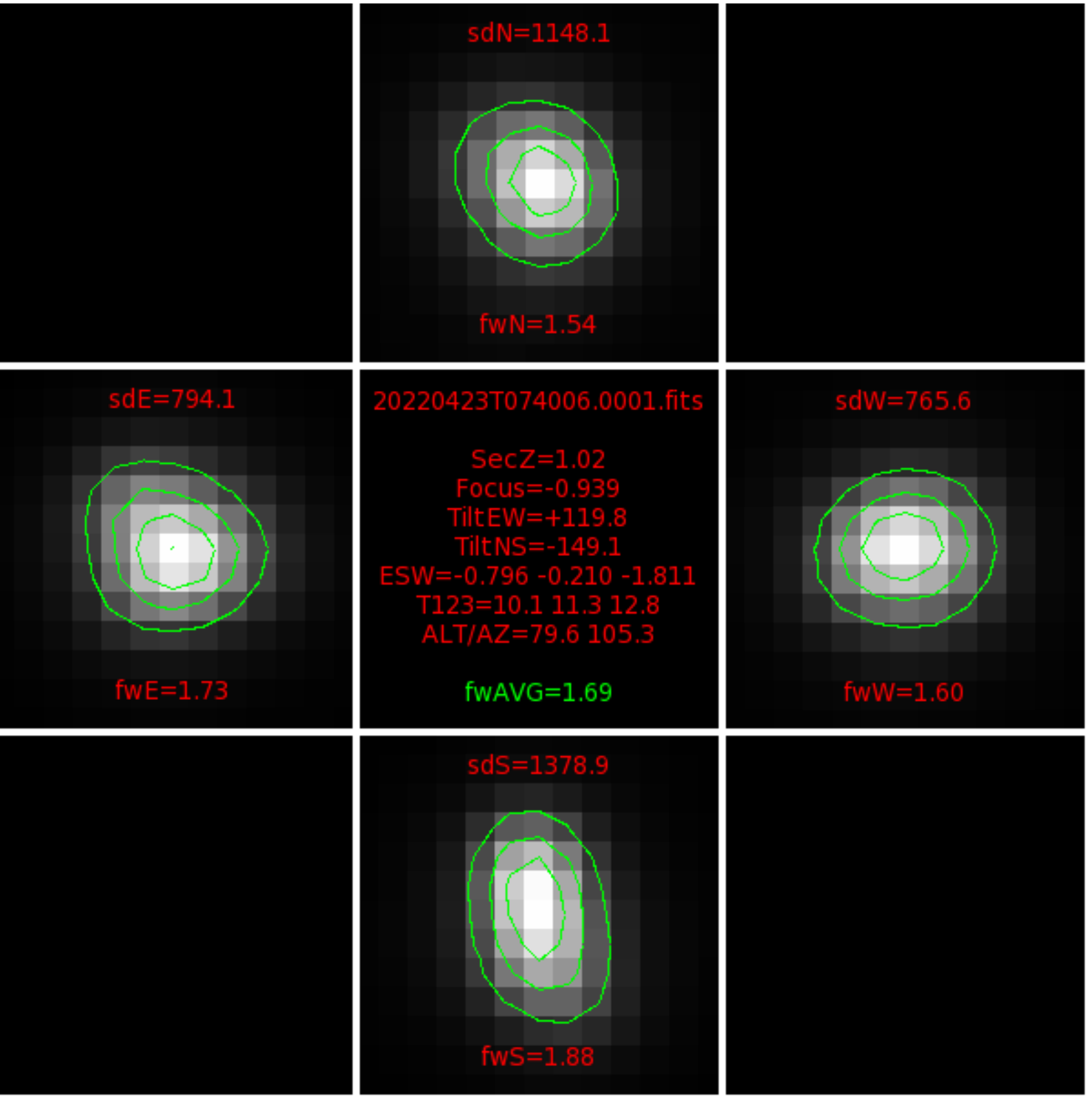
sdN=1148.1
fwN=1.54
sdE=794.1
fwE=1.73
20220423T074006.0001.fits
SecZ=1.02
Focus=-0.939
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.796 -0.210 -1.811
T123=10.1 11.3 12.8
ALT/AZ=79.6 105.3
fwAVG=1.69
sdW=765.6
fwW=1.60
sdS=1378.9
fwS=1.88
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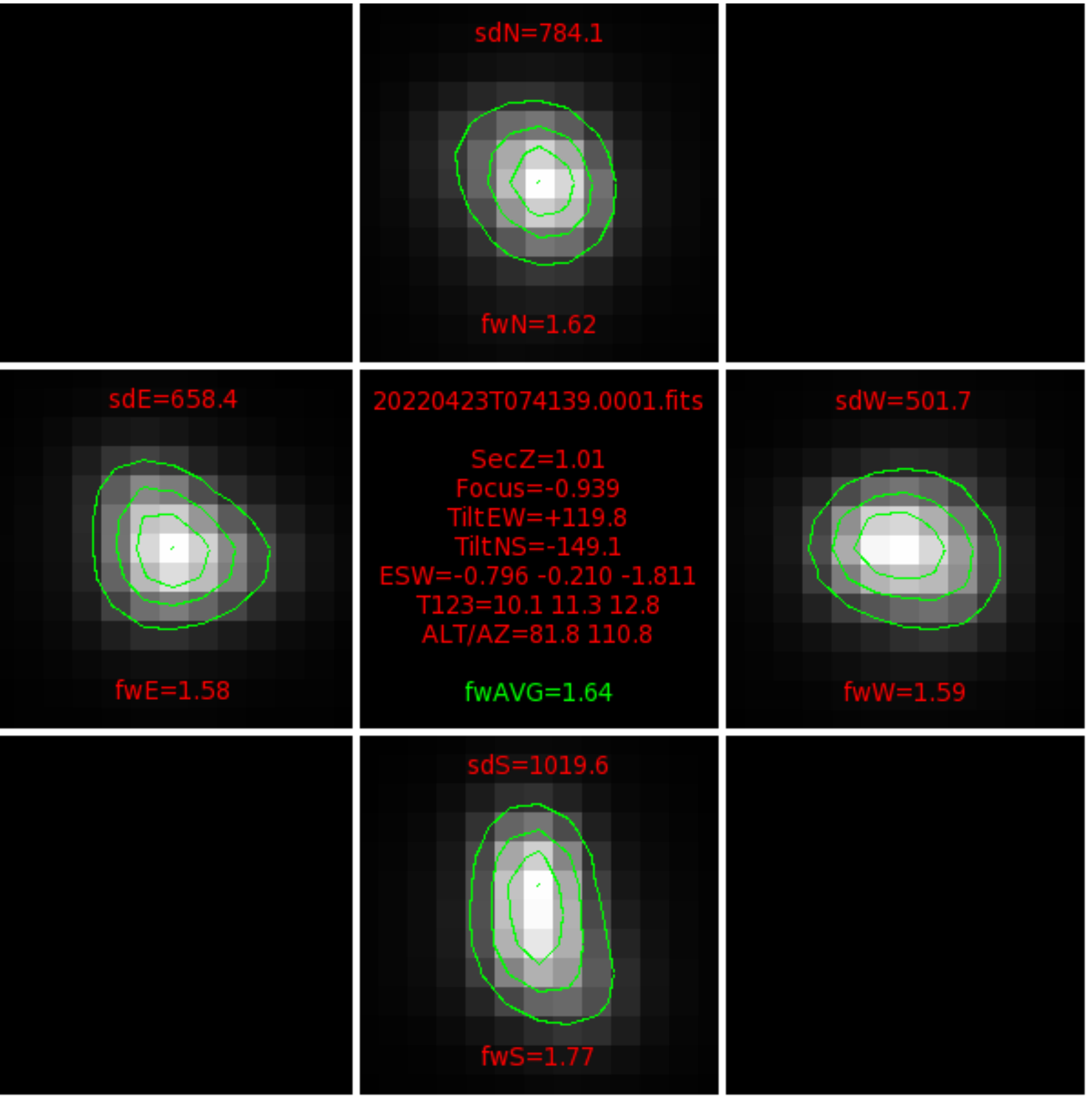
sdN=784.1
fwN=1.62
sdE=658.4
fwE=1.58
20220423T074139.0001.fits
SecZ=1.01
Focus=-0.939
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.796 -0.210 -1.811
T123=10.1 11.3 12.8
ALT/AZ=81.8 110.8
fwAVG=1.64
sdW=501.7
fwW=1.59
sdS=1019.6
fwS=1.77
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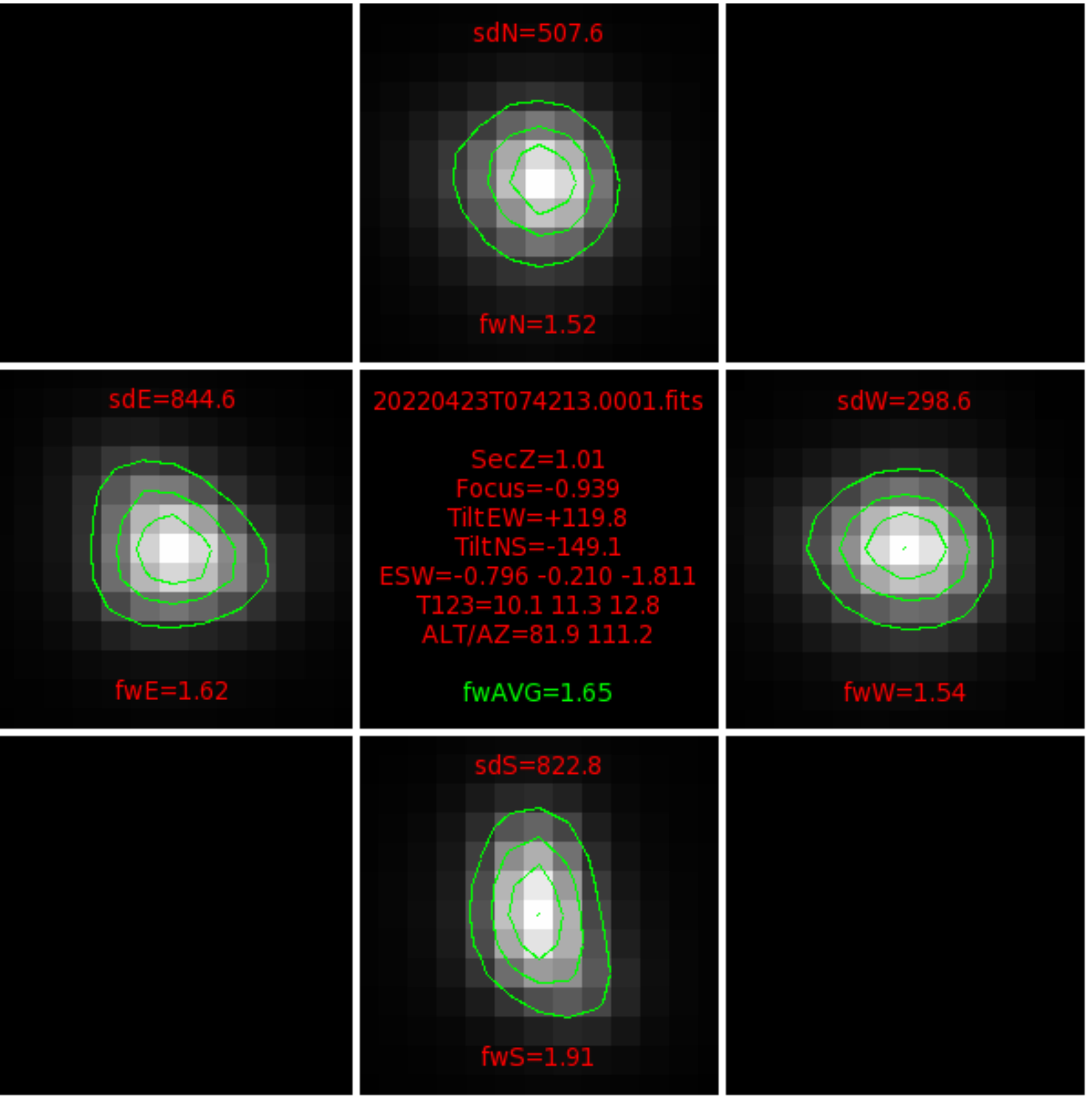
sdN=507.6
fwN=1.52
sdE=844.6
fwE=1.62
20220423T074213.0001.fits
SecZ=1.01
Focus=-0.939
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.796 -0.210 -1.811
T123=10.1 11.3 12.8
ALT/AZ=81.9 111.2
fwAVG=1.65
sdW=298.6
fwW=1.54
sdS=822.8
fwS=1.91
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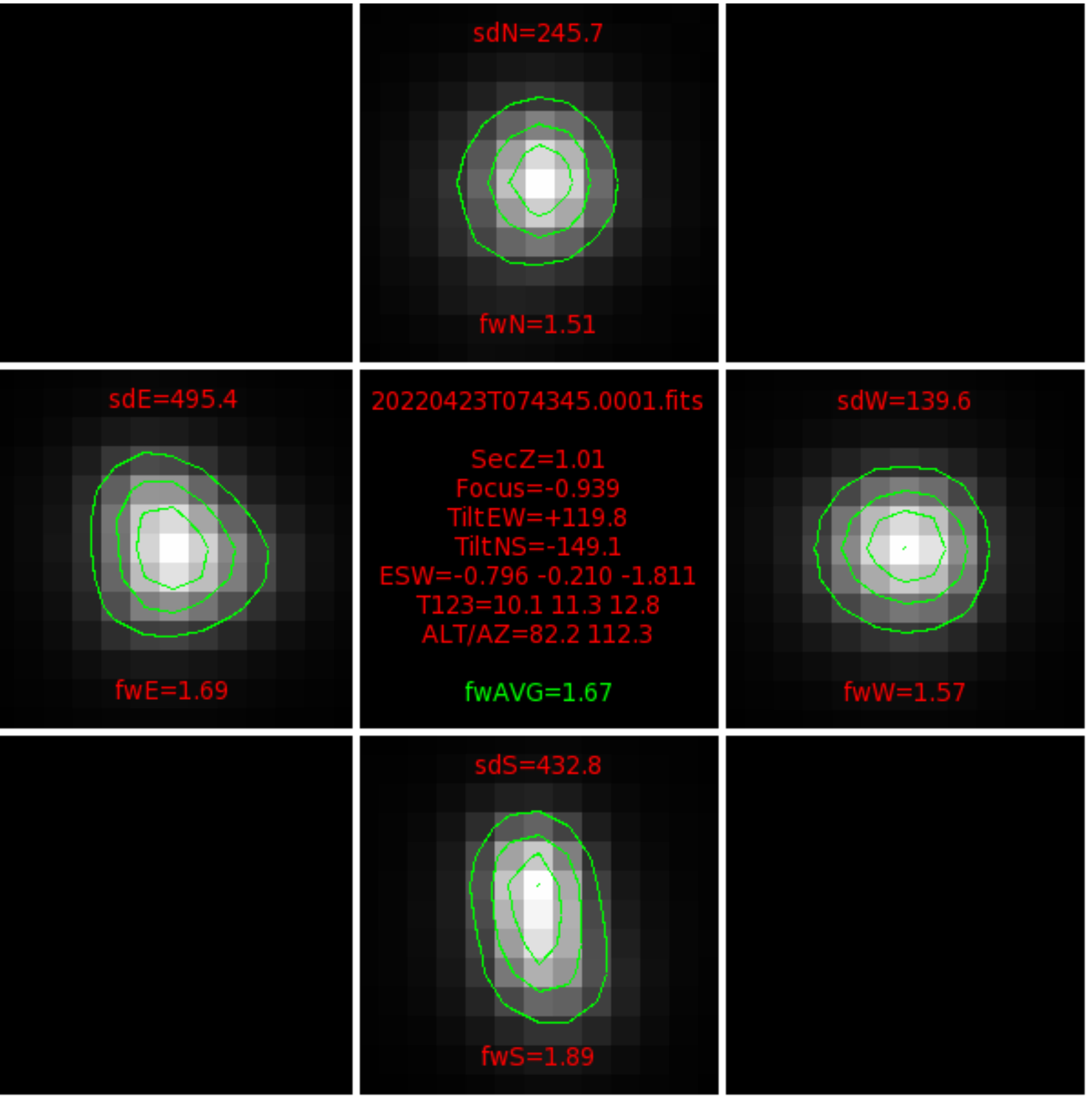
sdN=245.7
fwN=1.51
sdE=495.4
fwE=1.69
20220423T074345.0001.fits
SecZ=1.01
Focus=-0.939
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.796 -0.210 -1.811
T123=10.1 11.3 12.8
ALT/AZ=82.2 112.3
fwAVG=1.67
sdW=139.6
fwW=1.57
sdS=432.8
fwS=1.89
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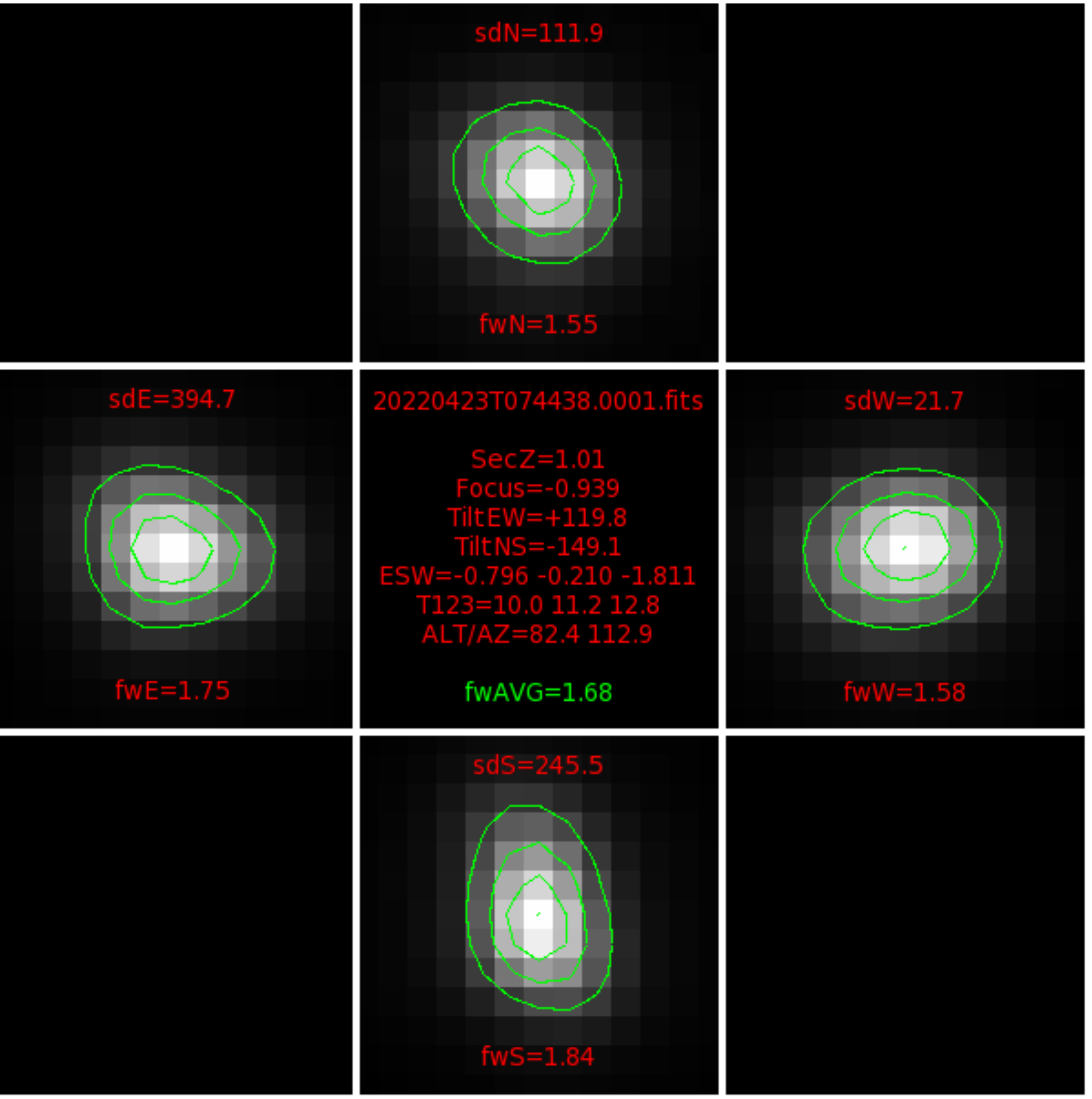
sdN=111.9
fwN=1.55
sdE=394.7
fwE=1.75
20220423T074438.0001.fits
SecZ=1.01
Focus=-0.939
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.796 -0.210 -1.811
T123=10.0 11.2 12.8
ALT/AZ=82.4 112.9
fwAVG=1.68
sdW=21.7
fwW=1.58
sdS=245.5
fwS=1.84
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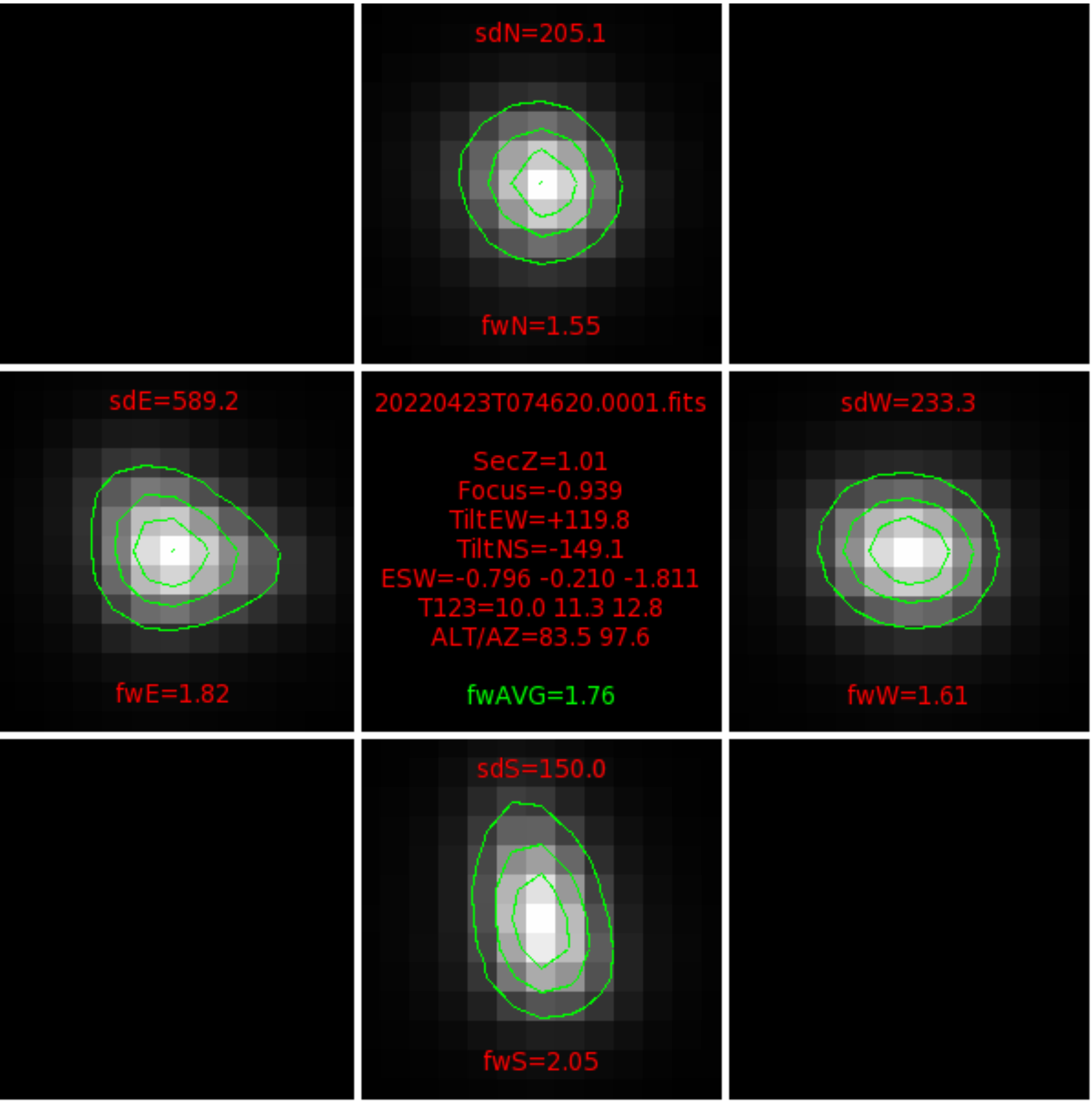
sdN=205.1
fwN=1.55
sdE=589.2
fwE=1.82
20220423T074620.0001.fits
SecZ=1.01
Focus=-0.939
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.796 -0.210 -1.811
T123=10.0 11.3 12.8
ALT/AZ=83.5 97.6
fwAVG=1.76
sdW=233.3
fwW=1.61
sdS=150.0
fwS=2.05
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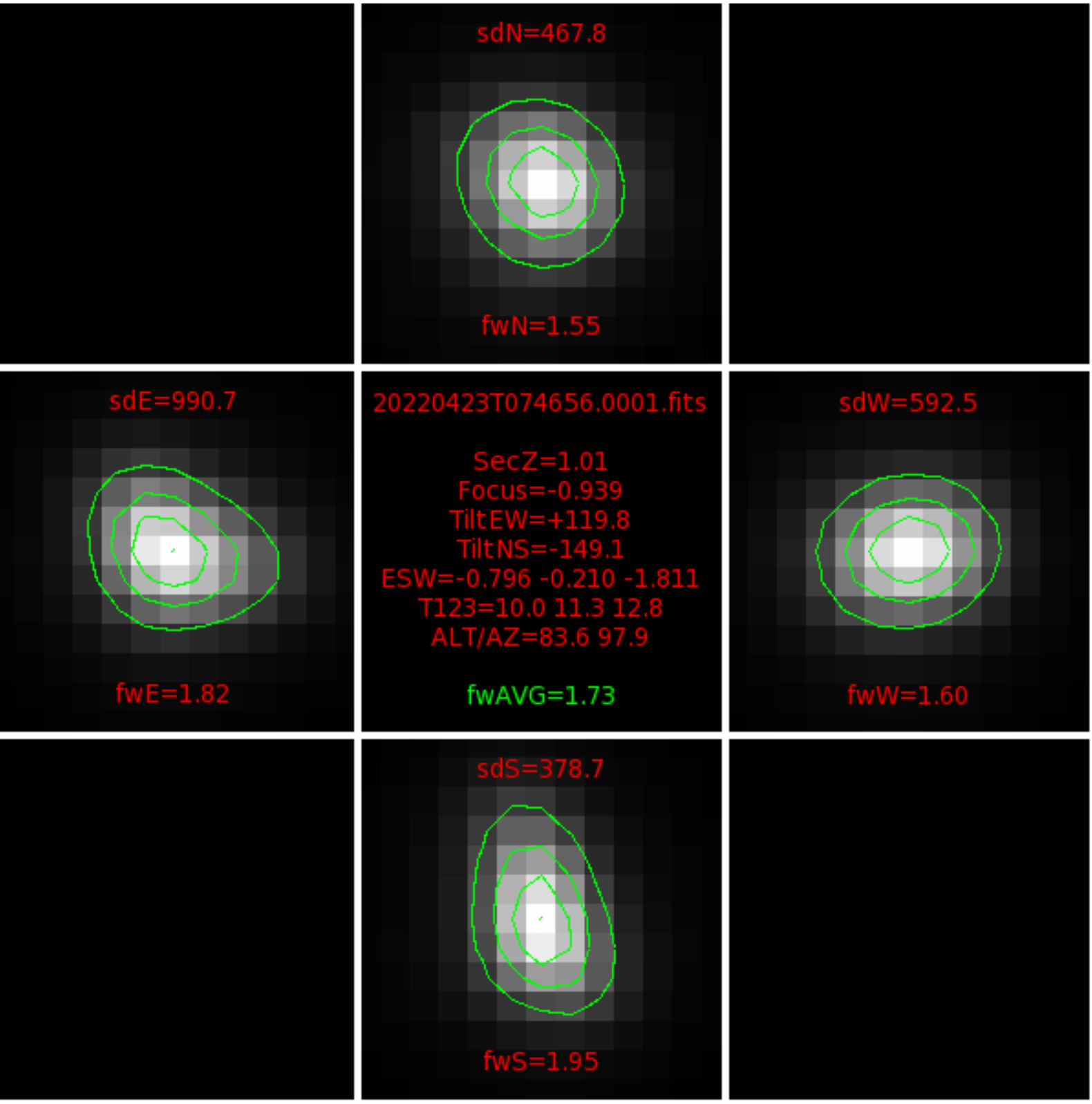
sdN=467.8
fwN=1.55
sdE=990.7
fwE=1.82
20220423T074656.0001.fits
SecZ=1.01
Focus=-0.939
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.796 -0.210 -1.811
T123=10.0 11.3 12.8
ALT/AZ=83.6 97.9
fwAVG=1.73
sdW=592.5
fwW=1.60
sdS=378.7
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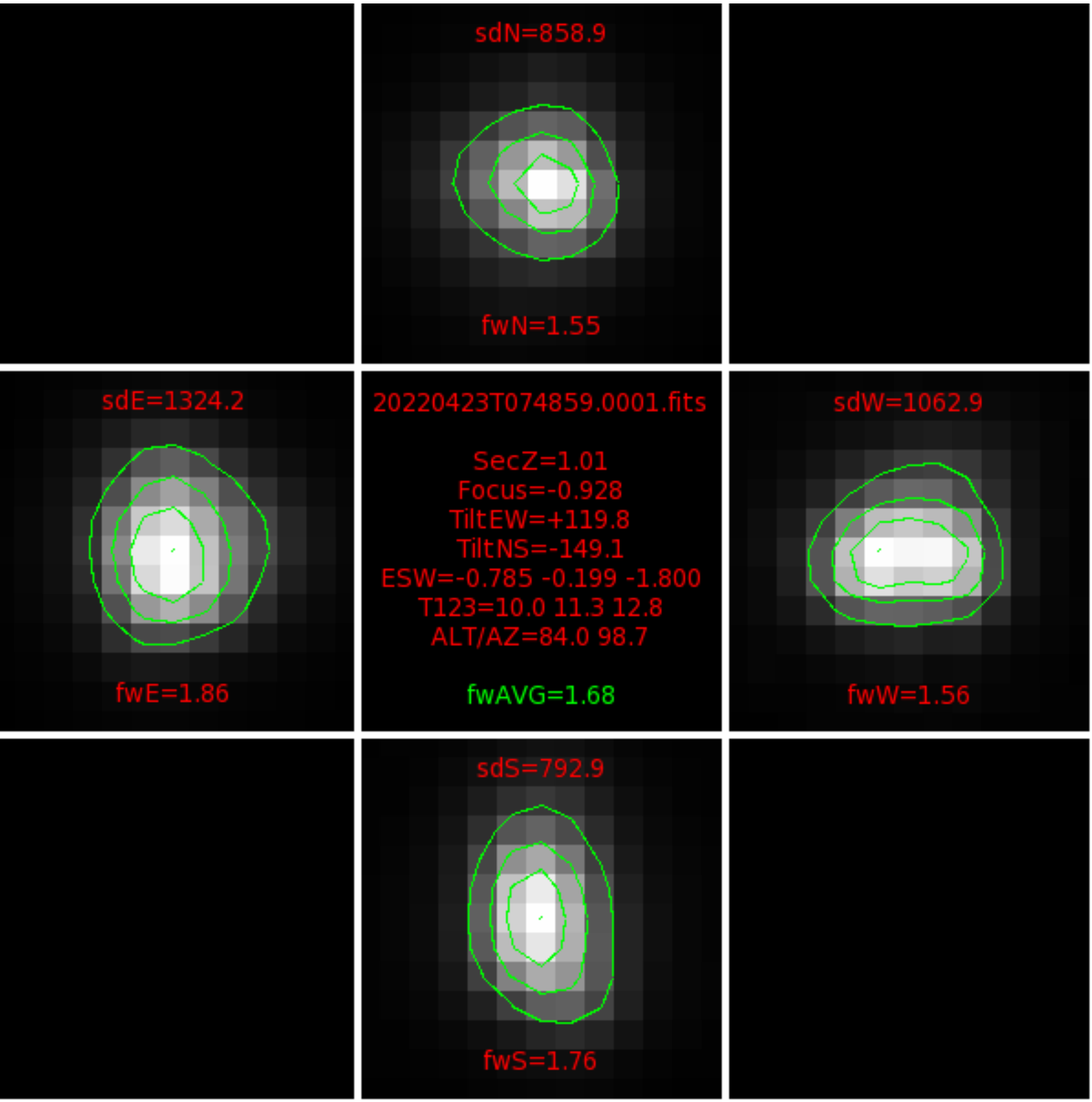
sdN=858.9
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sdE=1324.2
fwE=1.86
20220423T074859.0001.fits
SecZ=1.01
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.0 11.3 12.8
ALT/AZ=84.0 98.7
fwAVG=1.68
sdW=1062.9
fwW=1.56
sdS=792.9
fwS=1.76
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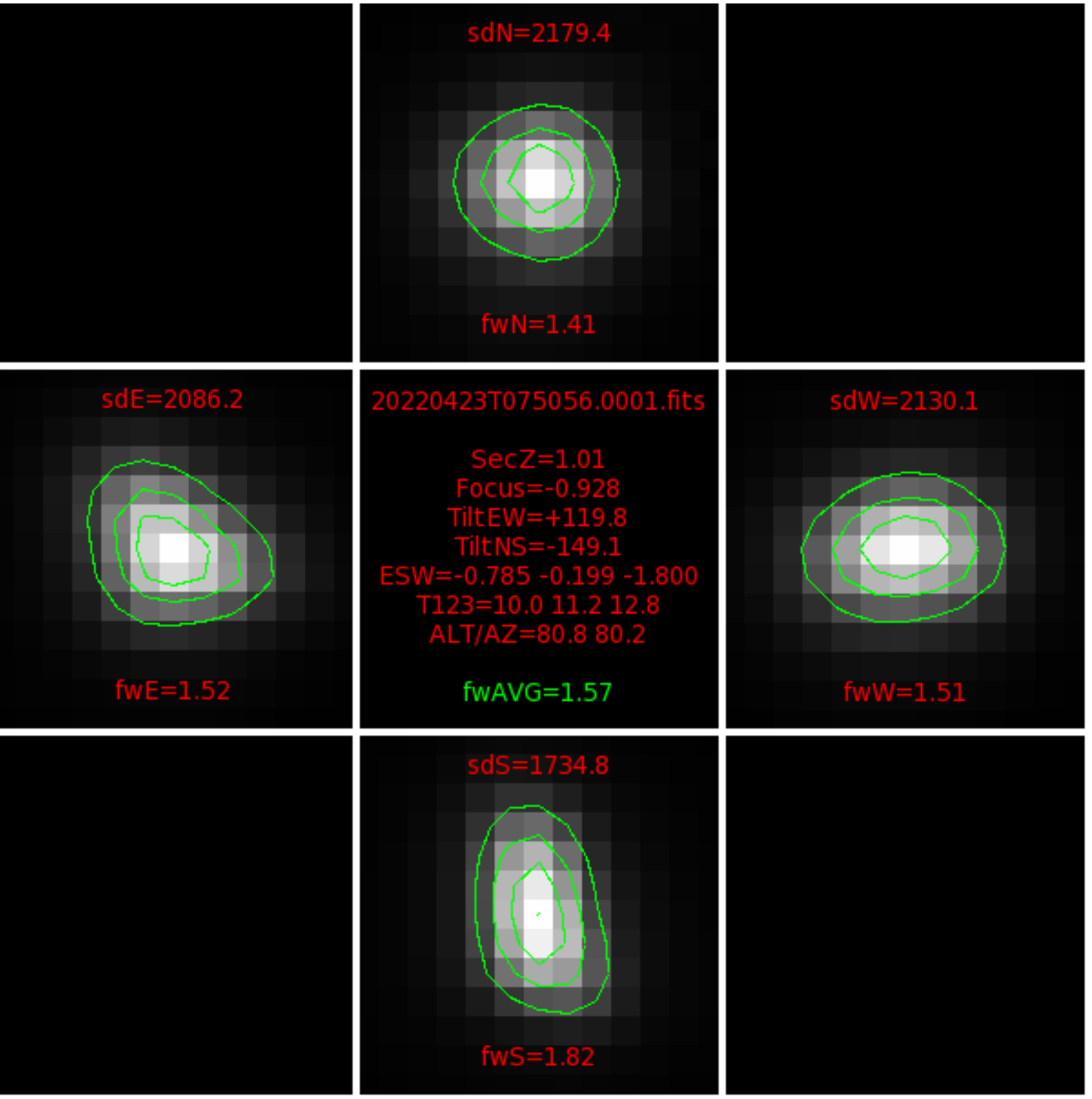
sdN=2179.4
fwN=1.41
sdE=2086.2
fwE=1.52
20220423T075056.0001.fits
SecZ=1.01
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.0 11.2 12.8
ALT/AZ=80.8 80.2
fwAVG=1.57
sdW=2130.1
fwW=1.51
sdS=1734.8
fwS=1.82
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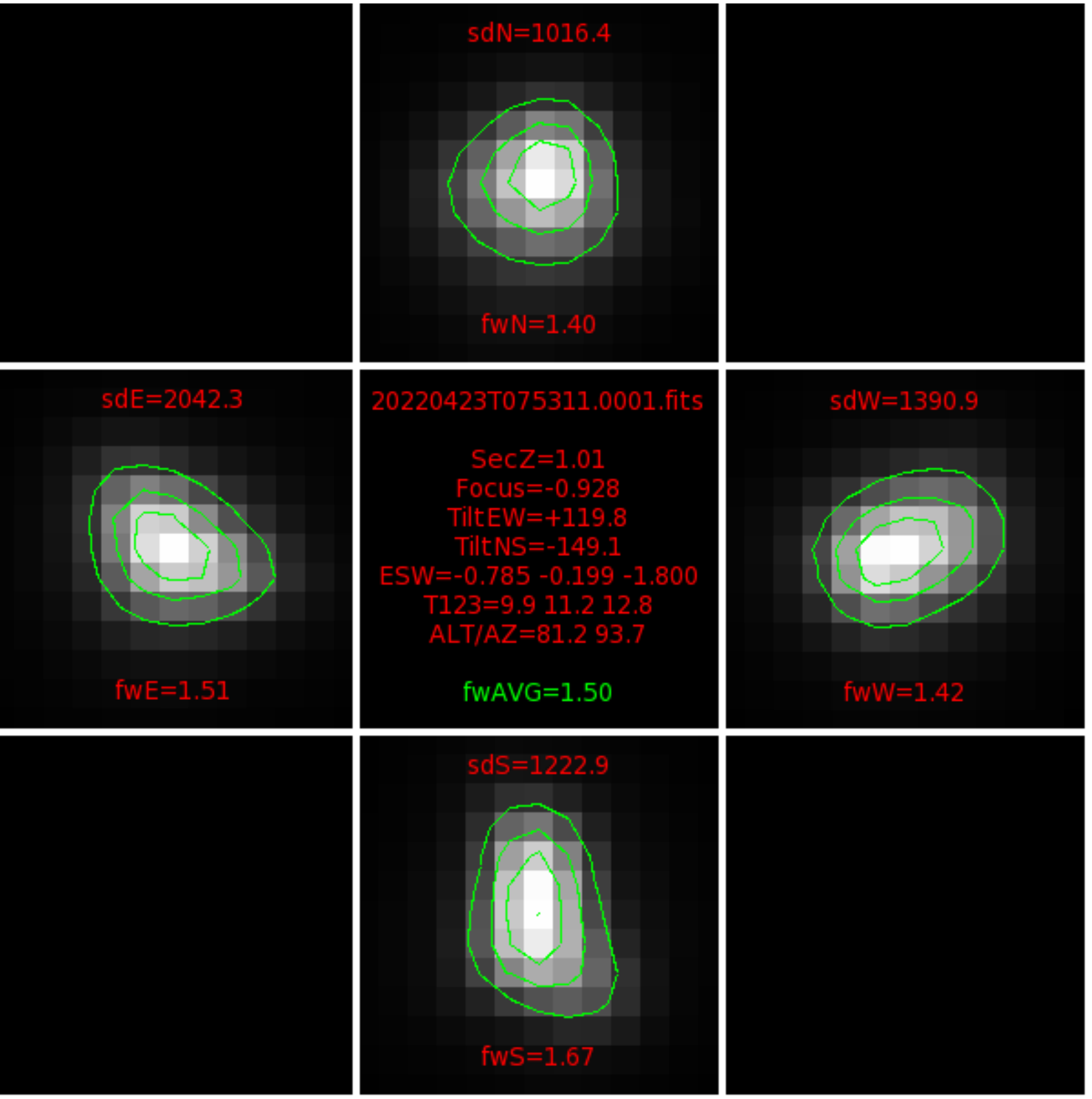
sdN=1016.4
fwN=1.40
sdE=2042.3
fwE=1.51
20220423T075311.0001.fits
SecZ=1.01
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=9.9 11.2 12.8
ALT/AZ=81.2 93.7
fwAVG=1.50
sdW=1390.9
fwW=1.42
sdS=1222.9
fwS=1.67
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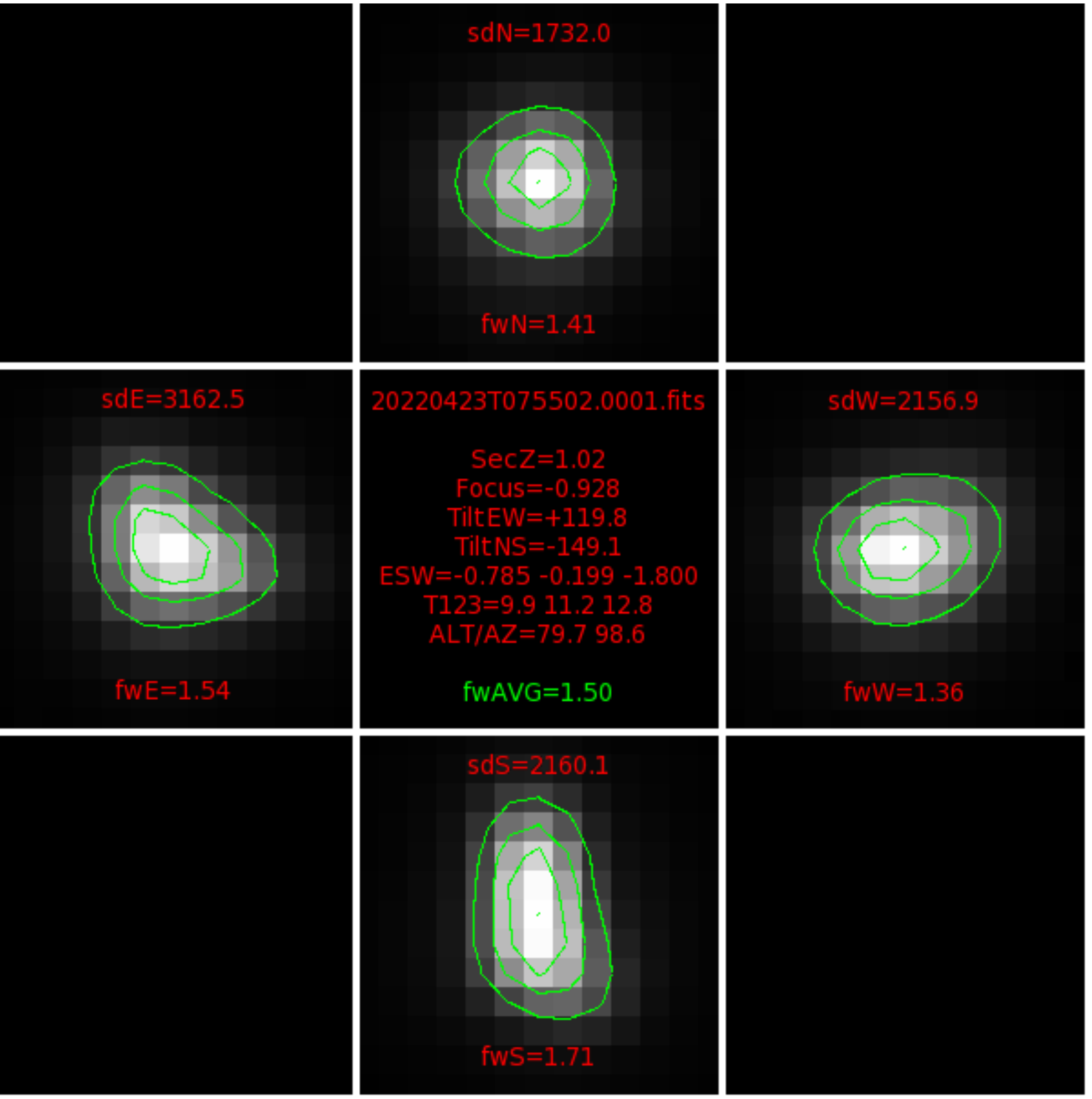
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fwN=1.41
sdE=3162.5
fwE=1.54
20220423T075502.0001.fits
SecZ=1.02
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=9.9 11.2 12.8
ALT/AZ=79.7 98.6
fwAVG=1.50
sdW=2156.9
fwW=1.36
sdS=2160.1
fwS=1.71
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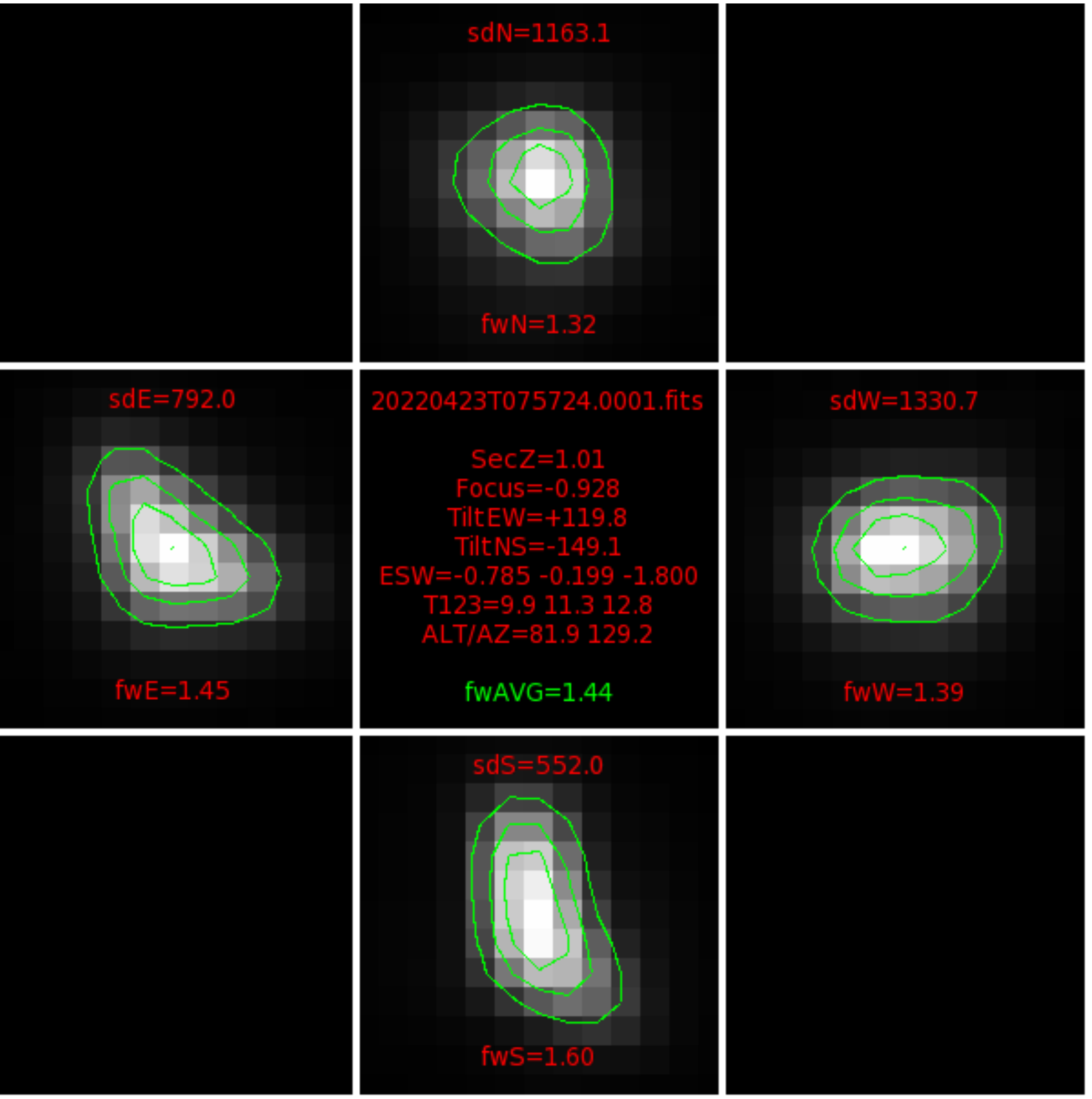
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sdE=792.0
fwE=1.45
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SecZ=1.01
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=9.9 11.3 12.8
ALT/AZ=81.9 129.2
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sdW=1330.7
fwW=1.39
sdS=552.0
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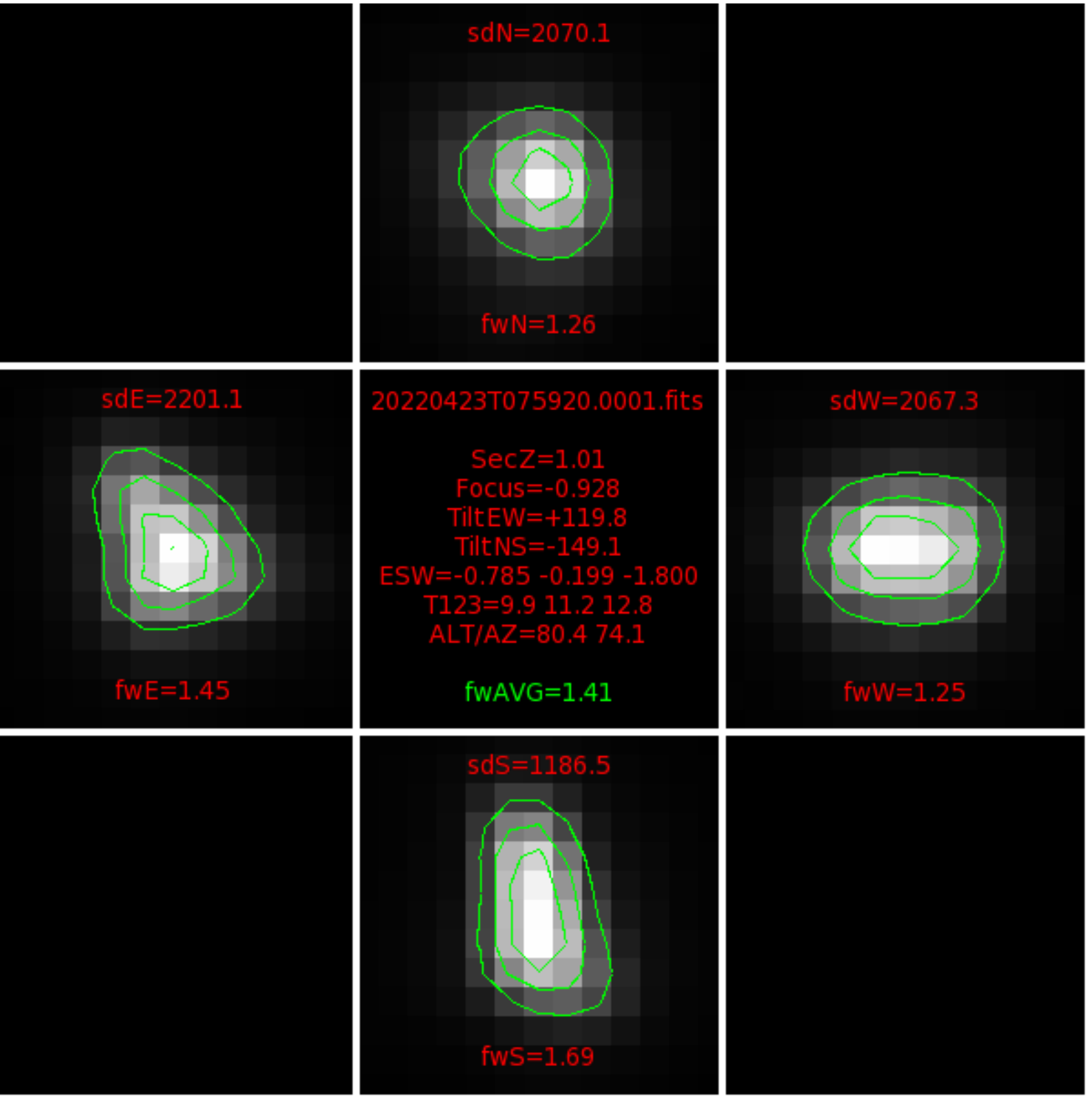
sdN=2070.1
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sdE=2201.1
fwE=1.45
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SecZ=1.01
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=9.9 11.2 12.8
ALT/AZ=80.4 74.1
fwAVG=1.41
sdW=2067.3
fwW=1.25
sdS=1186.5
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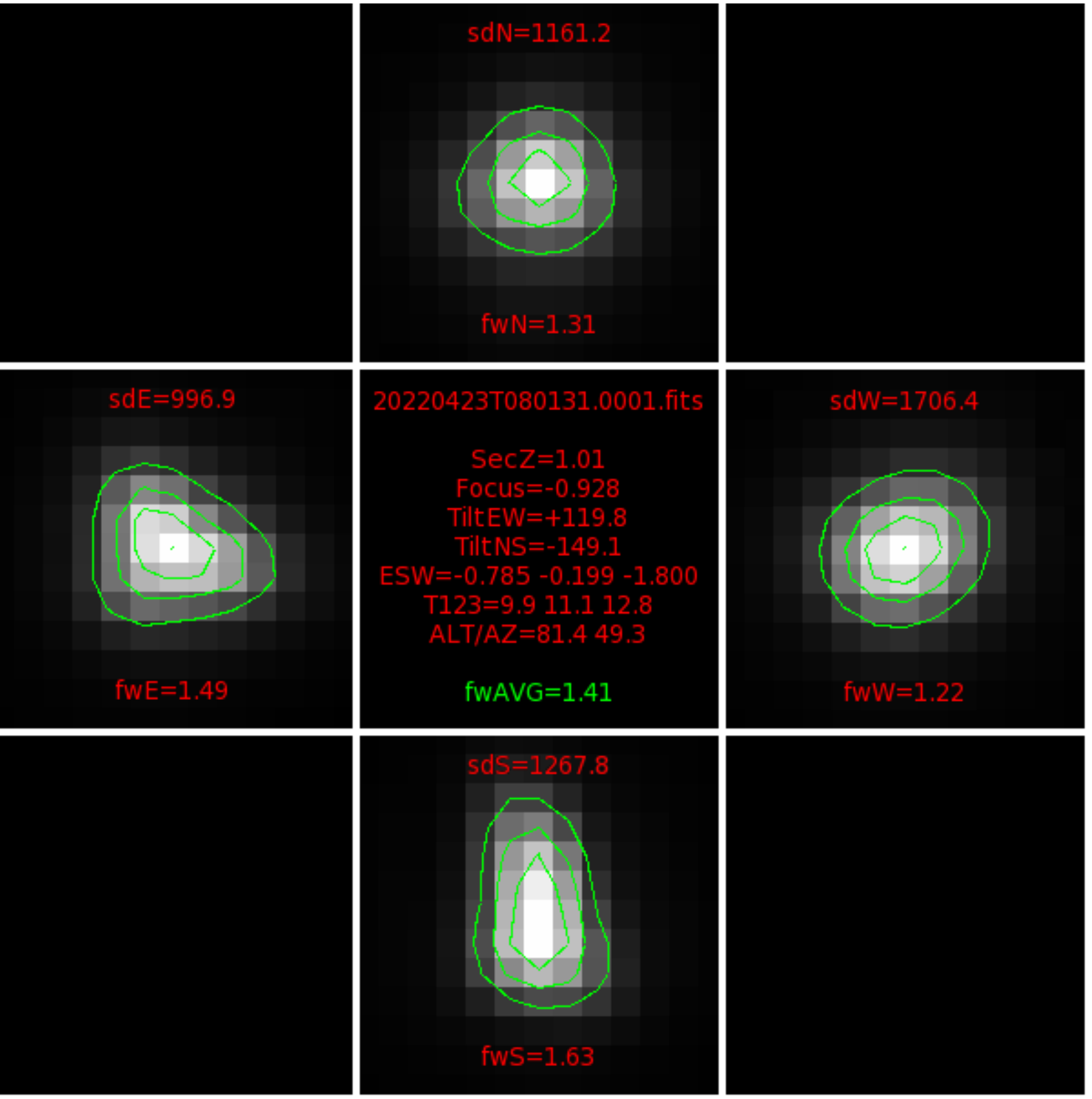
sdN=1161.2
fwN=1.31
sdE=996.9
fwE=1.49
20220423T080131.0001.fits
SecZ=1.01
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=9.9 11.1 12.8
ALT/AZ=81.4 49.3
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sdW=1706.4
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sdS=1267.8
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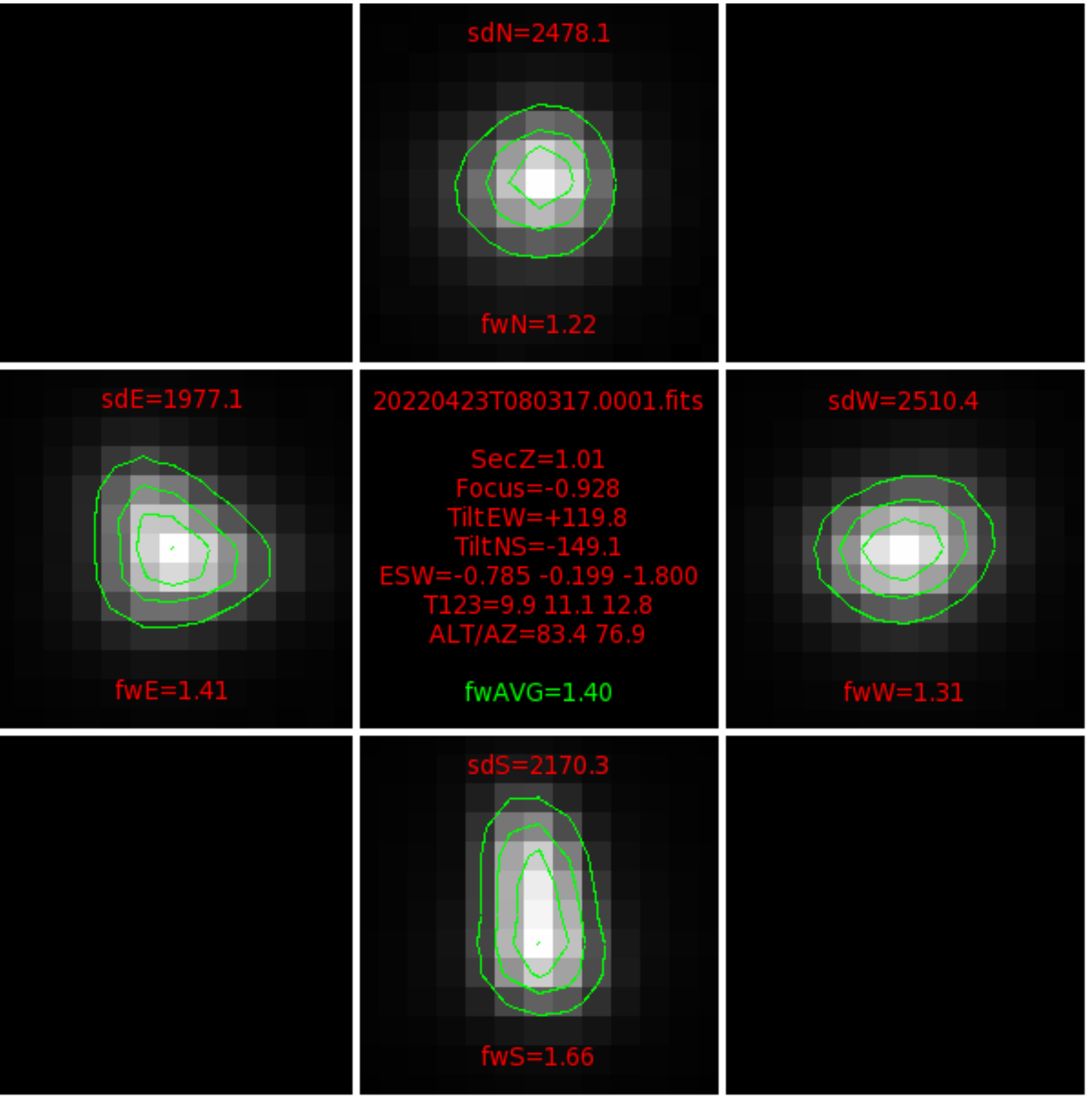
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sdE=1977.1
fwE=1.41
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SecZ=1.01
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=9.9 11.1 12.8
ALT/AZ=83.4 76.9
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sdW=2510.4
fwW=1.31
sdS=2170.3
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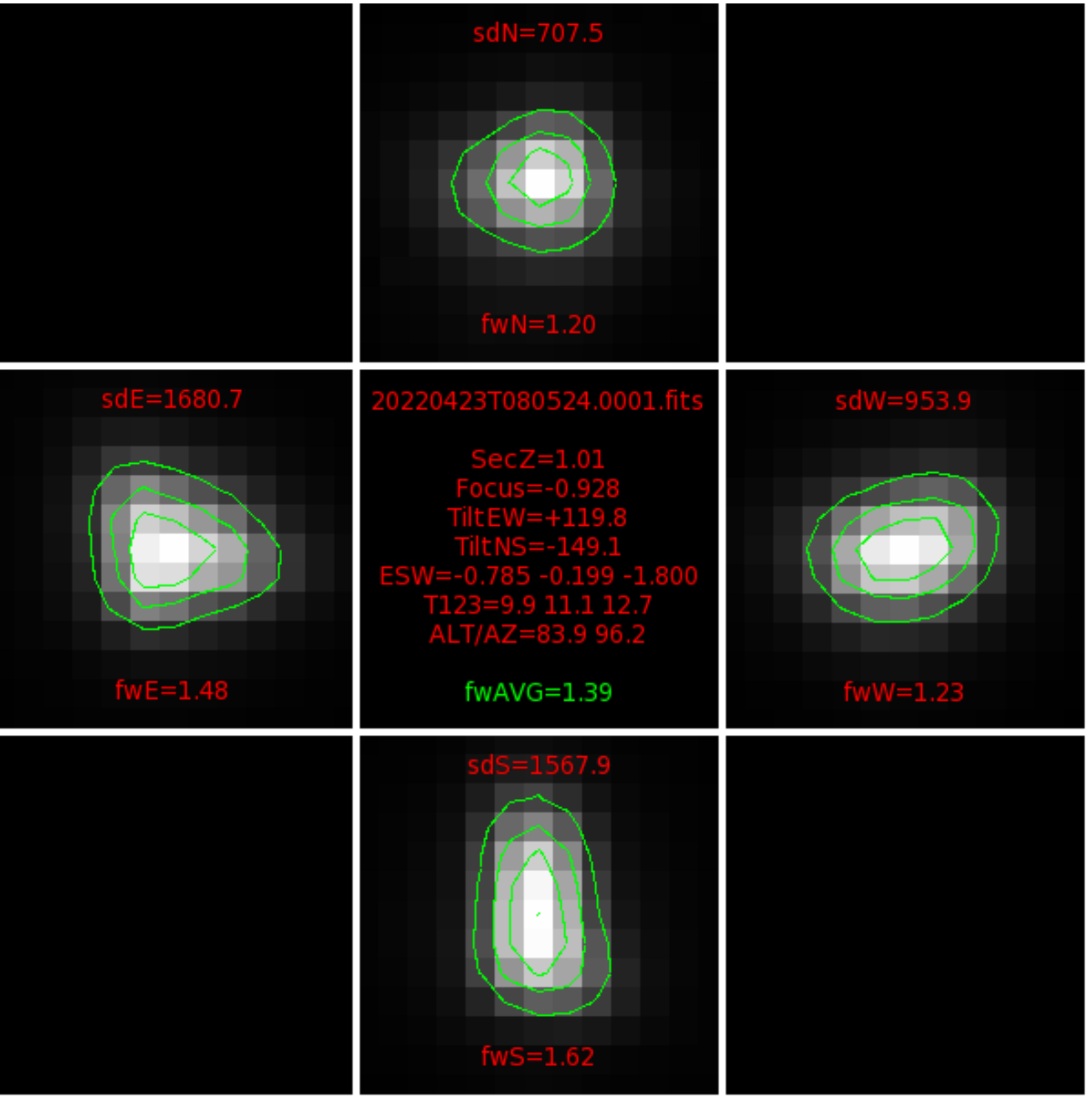
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sdE=1680.7
fwE=1.48
20220423T080524.0001.fits
SecZ=1.01
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=9.9 11.1 12.7
ALT/AZ=83.9 96.2
fwAVG=1.39
sdW=953.9
fwW=1.23
sdS=1567.9
fwS=1.62
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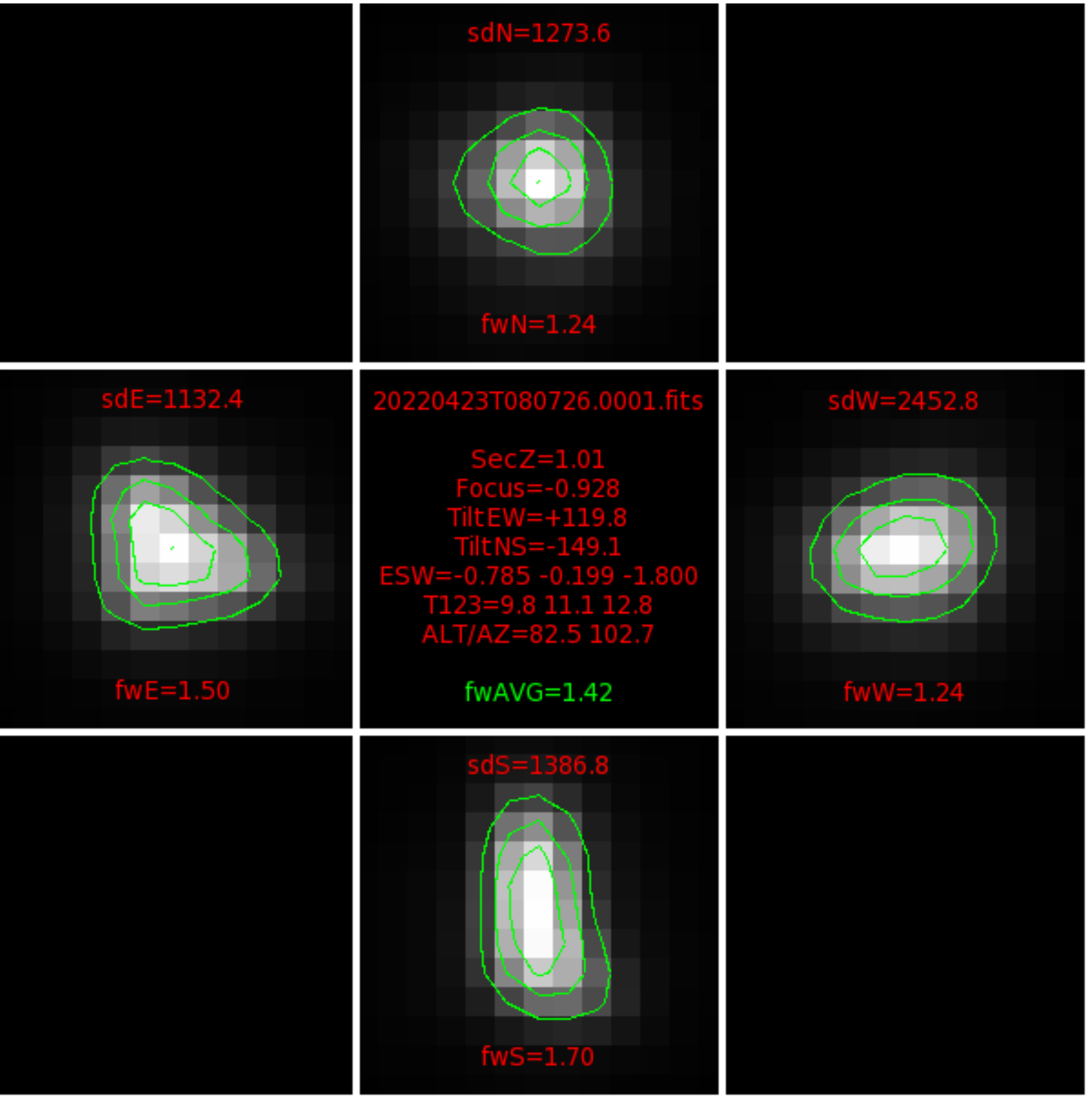
sdN=1273.6
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sdE=1132.4
fwE=1.50
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SecZ=1.01
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=9.8 11.1 12.8
ALT/AZ=82.5 102.7
fwAVG=1.42
sdW=2452.8
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sdS=1386.8
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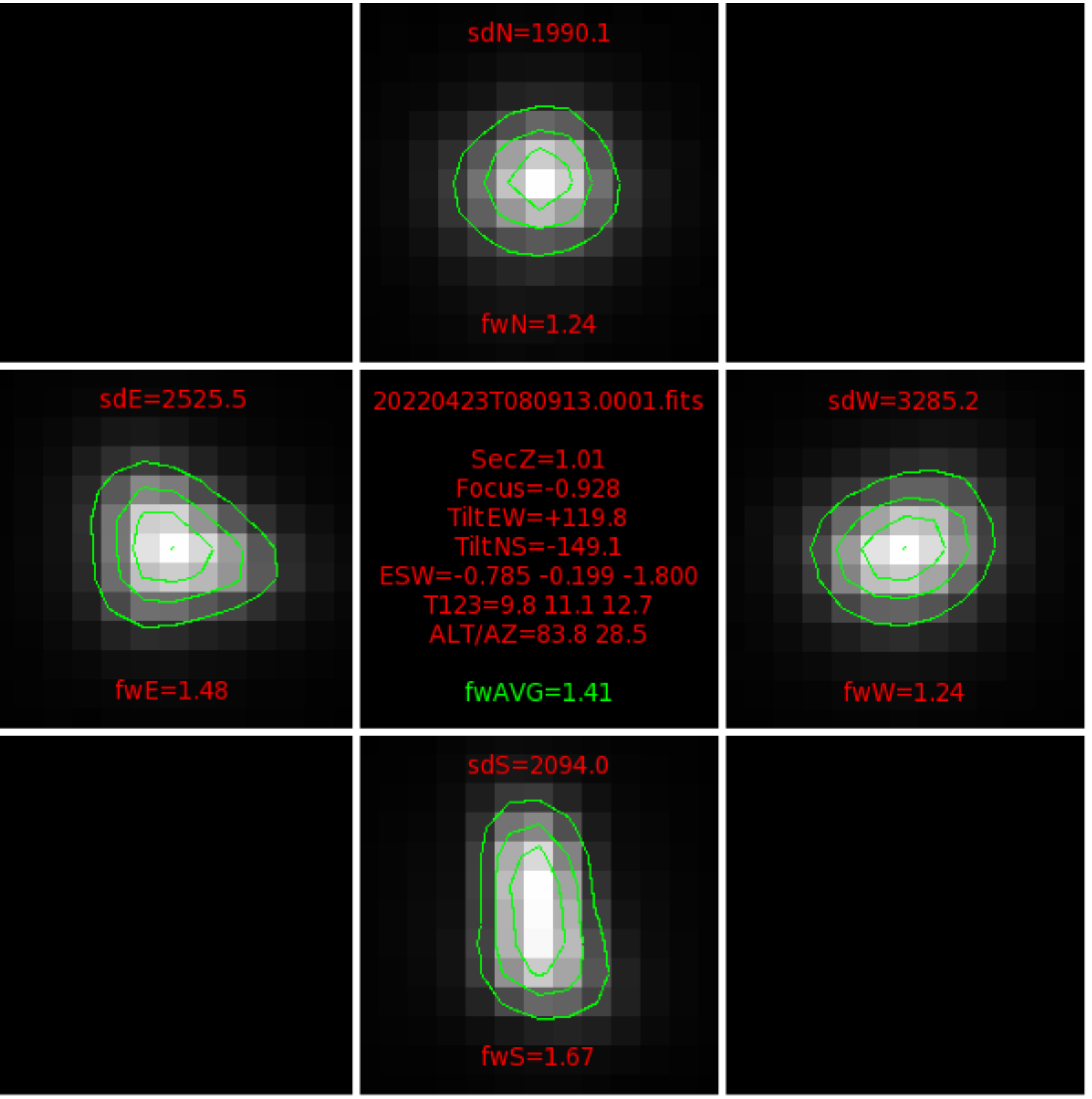
sdN=1990.1
fwN=1.24
sdE=2525.5
fwE=1.48
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SecZ=1.01
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=9.8 11.1 12.7
ALT/AZ=83.8 28.5
fwAVG=1.41
sdW=3285.2
fwW=1.24
sdS=2094.0
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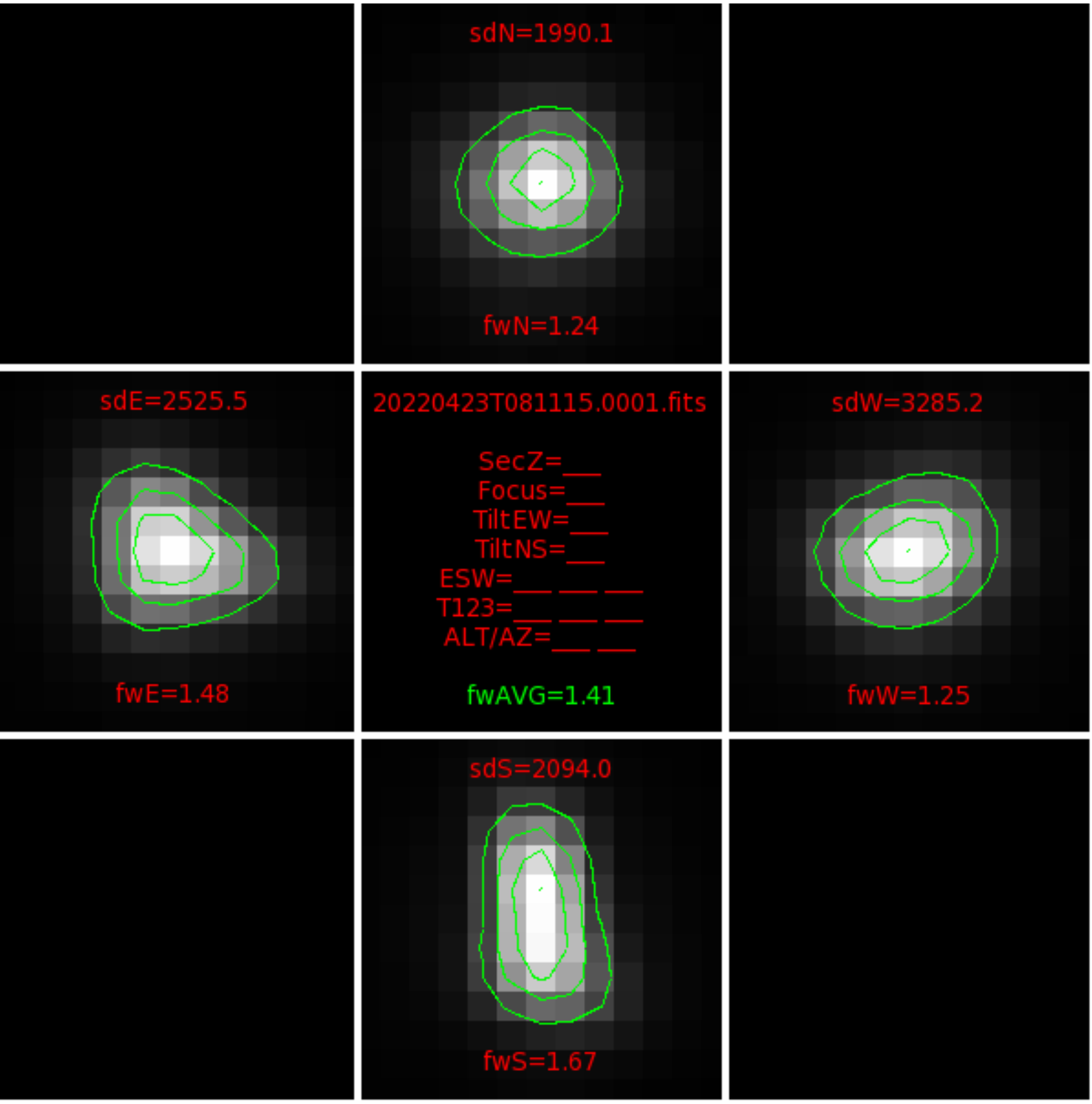
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fwN=1.24
sdE=2525.5
fwE=1.48
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SecZ=___
Focus=___
TiltEW=___
TiltNS=___
ESW=___ ___ ___
T123=___ ___ ___
ALT/AZ=___ ___
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sdS=2094.0
fwS=1.67
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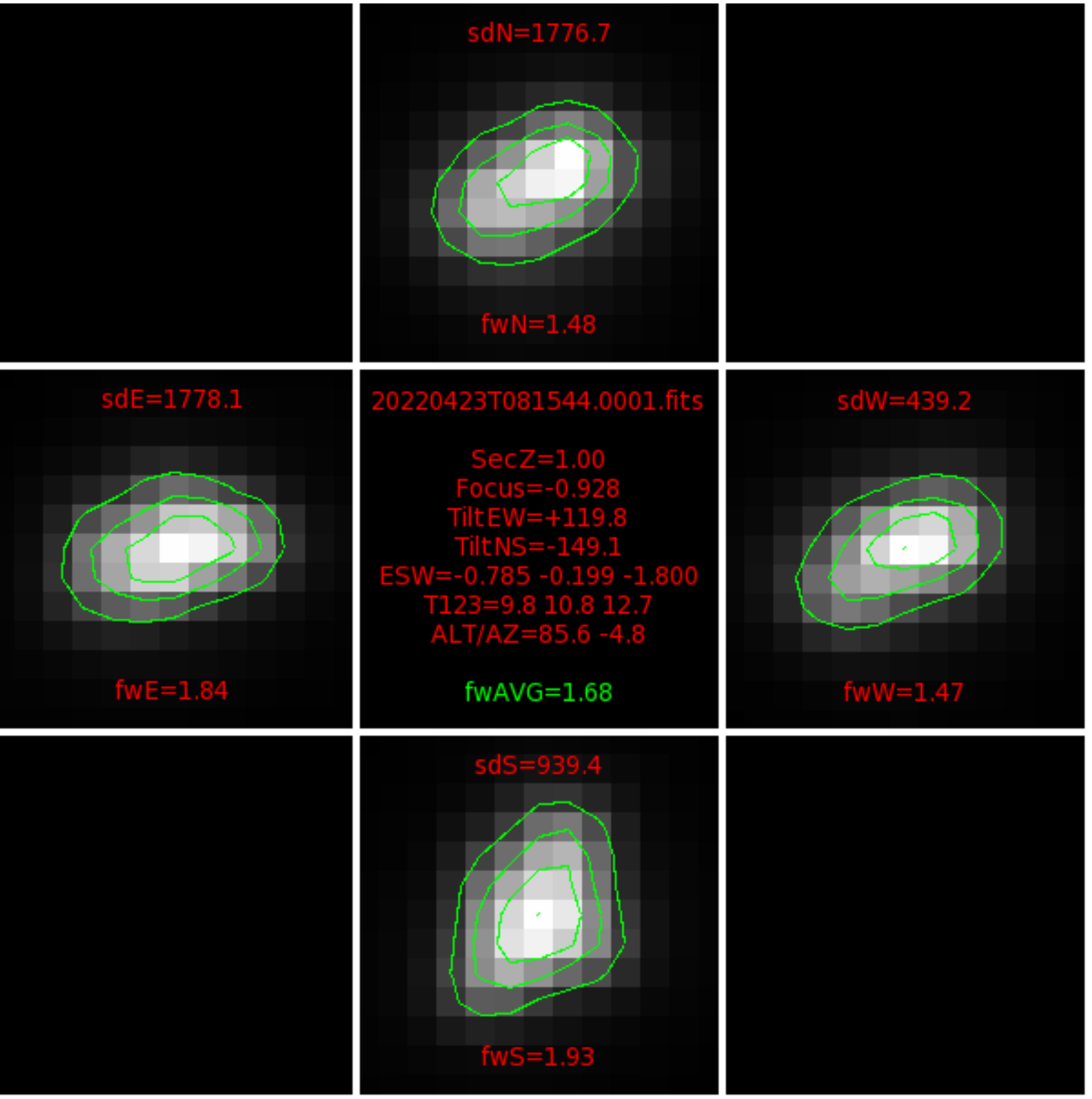
sdN=1776.7
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sdE=1778.1
fwE=1.84
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SecZ=1.00
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=9.8 10.8 12.7
ALT/AZ=85.6 -4.8
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sdW=439.2
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sdS=939.4
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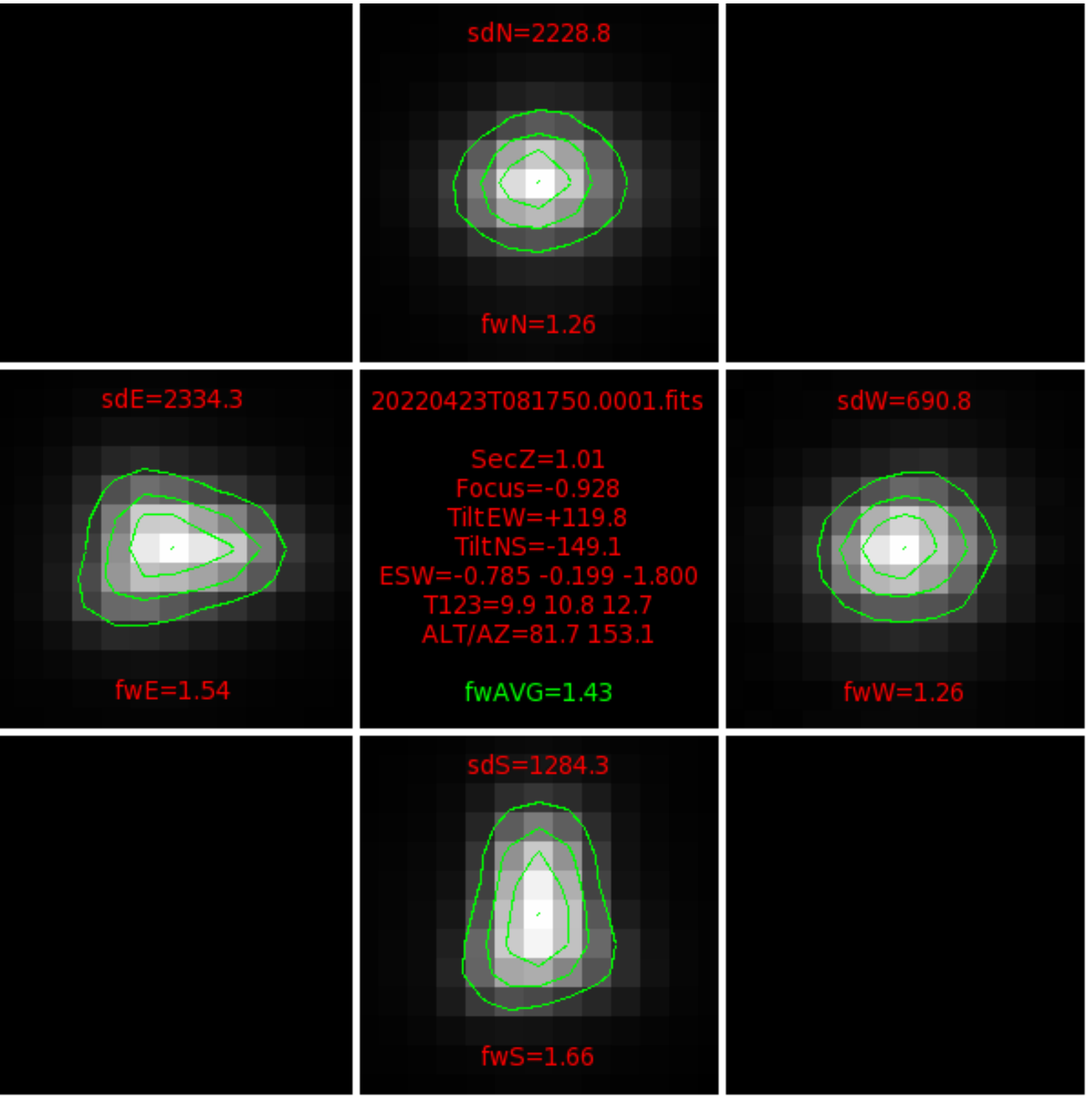
sdN=2228.8
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sdE=2334.3
fwE=1.54
20220423T081750.0001.fits
SecZ=1.01
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=9.9 10.8 12.7
ALT/AZ=81.7 153.1
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sdW=690.8
fwW=1.26
sdS=1284.3
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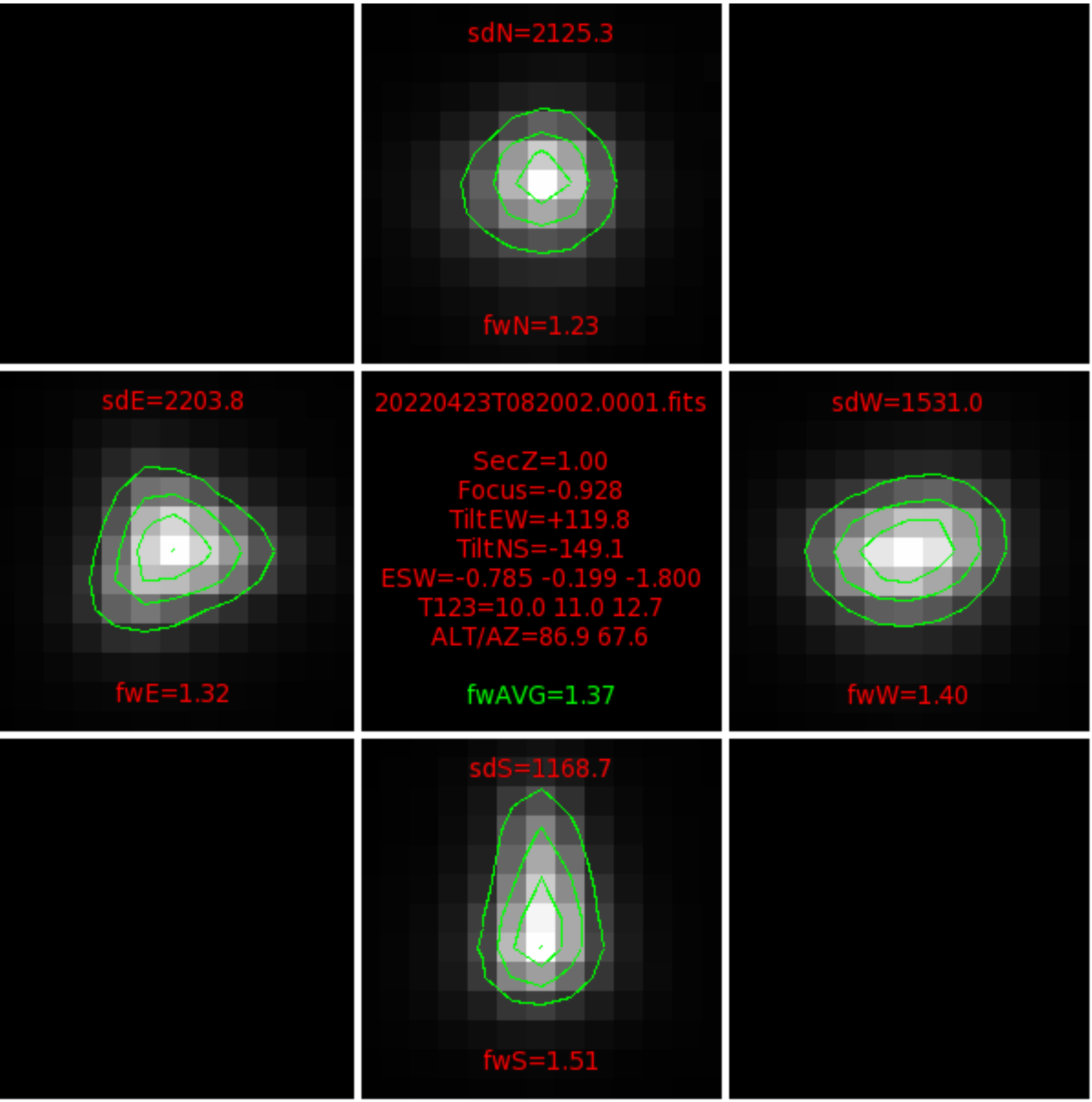
sdN=2125.3
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sdE=2203.8
fwE=1.32
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SecZ=1.00
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.0 11.0 12.7
ALT/AZ=86.9 67.6
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sdW=1531.0
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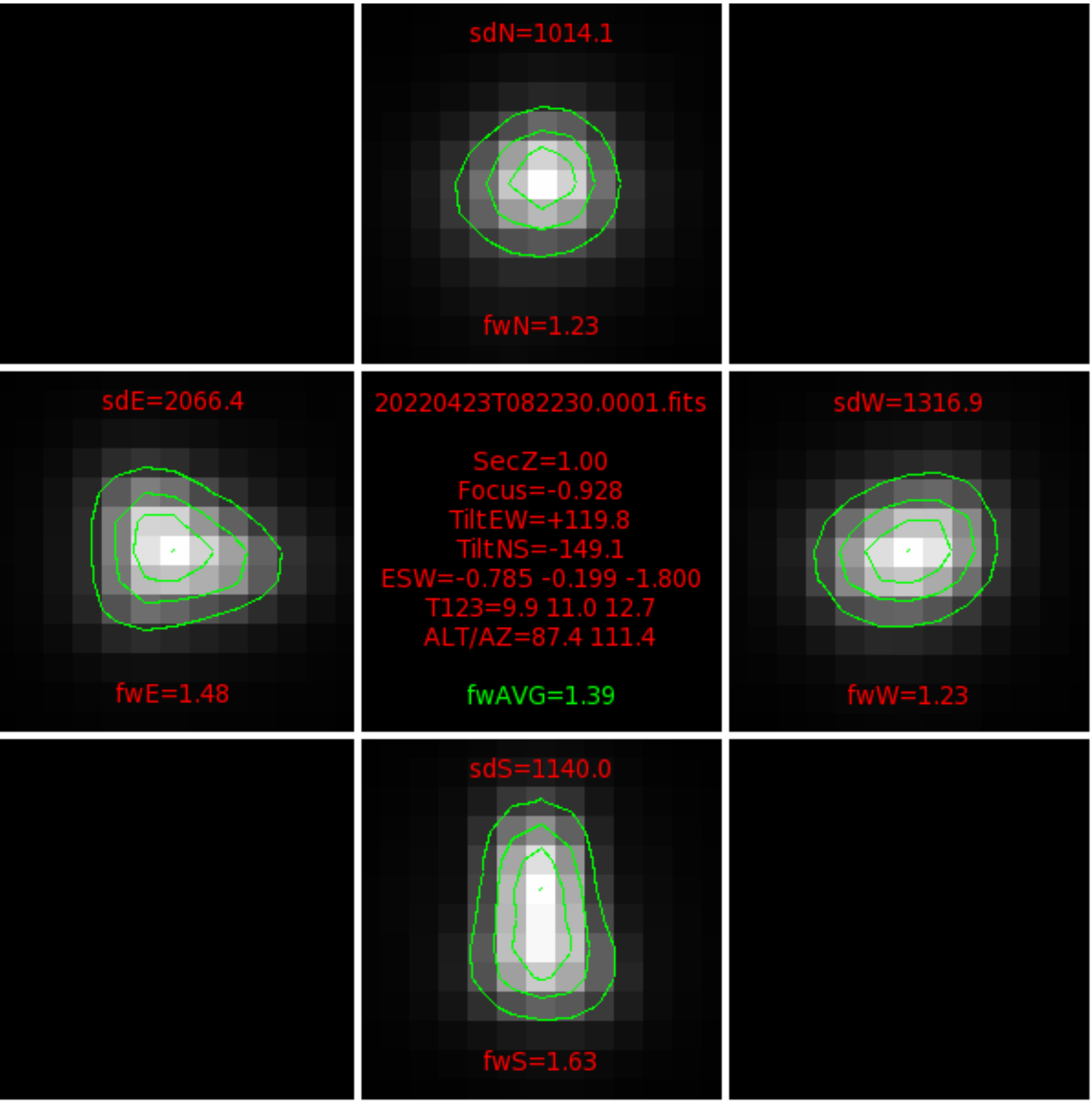
sdN=1014.1
fwN=1.23
sdE=2066.4
fwE=1.48
20220423T082230.0001.fits
SecZ=1.00
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=9.9 11.0 12.7
ALT/AZ=87.4 111.4
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sdW=1316.9
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sdS=1140.0
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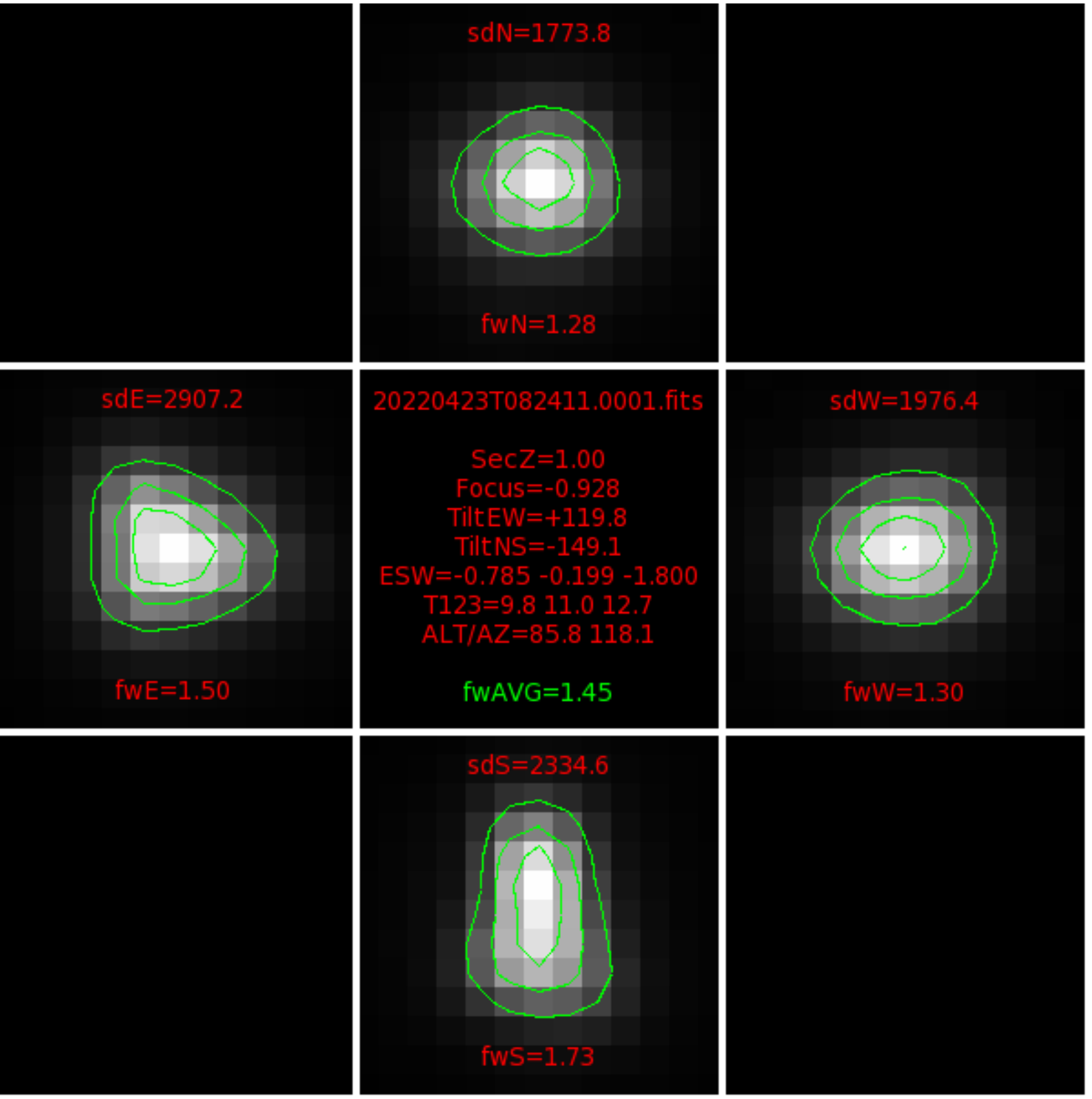
sdN=1773.8
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sdE=2907.2
fwE=1.50
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SecZ=1.00
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=9.8 11.0 12.7
ALT/AZ=85.8 118.1
fwAVG=1.45
sdW=1976.4
fwW=1.30
sdS=2334.6
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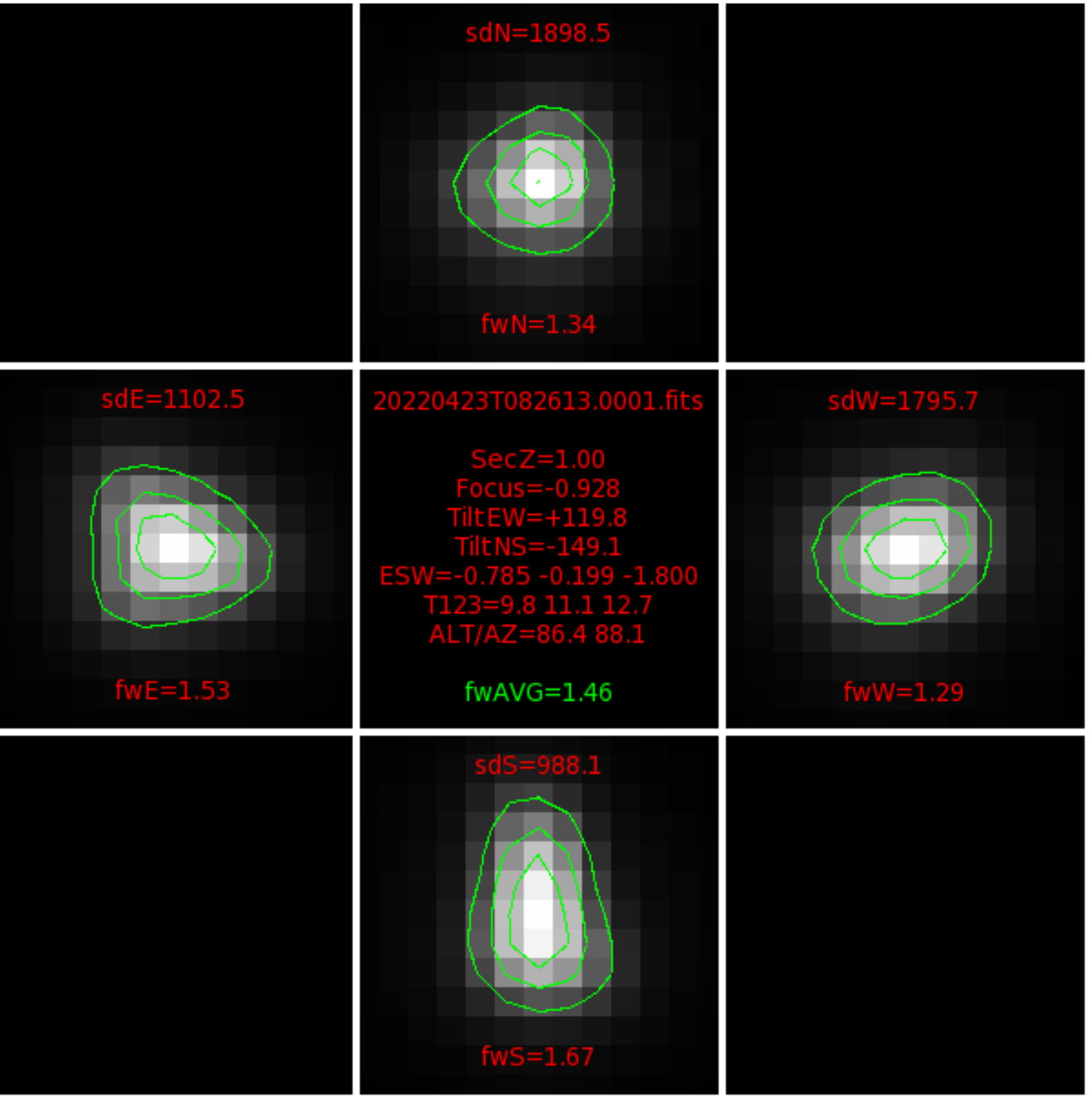
sdN=1898.5
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sdE=1102.5
fwE=1.53
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SecZ=1.00
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=9.8 11.1 12.7
ALT/AZ=86.4 88.1
fwAVG=1.46
sdW=1795.7
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sdS=988.1
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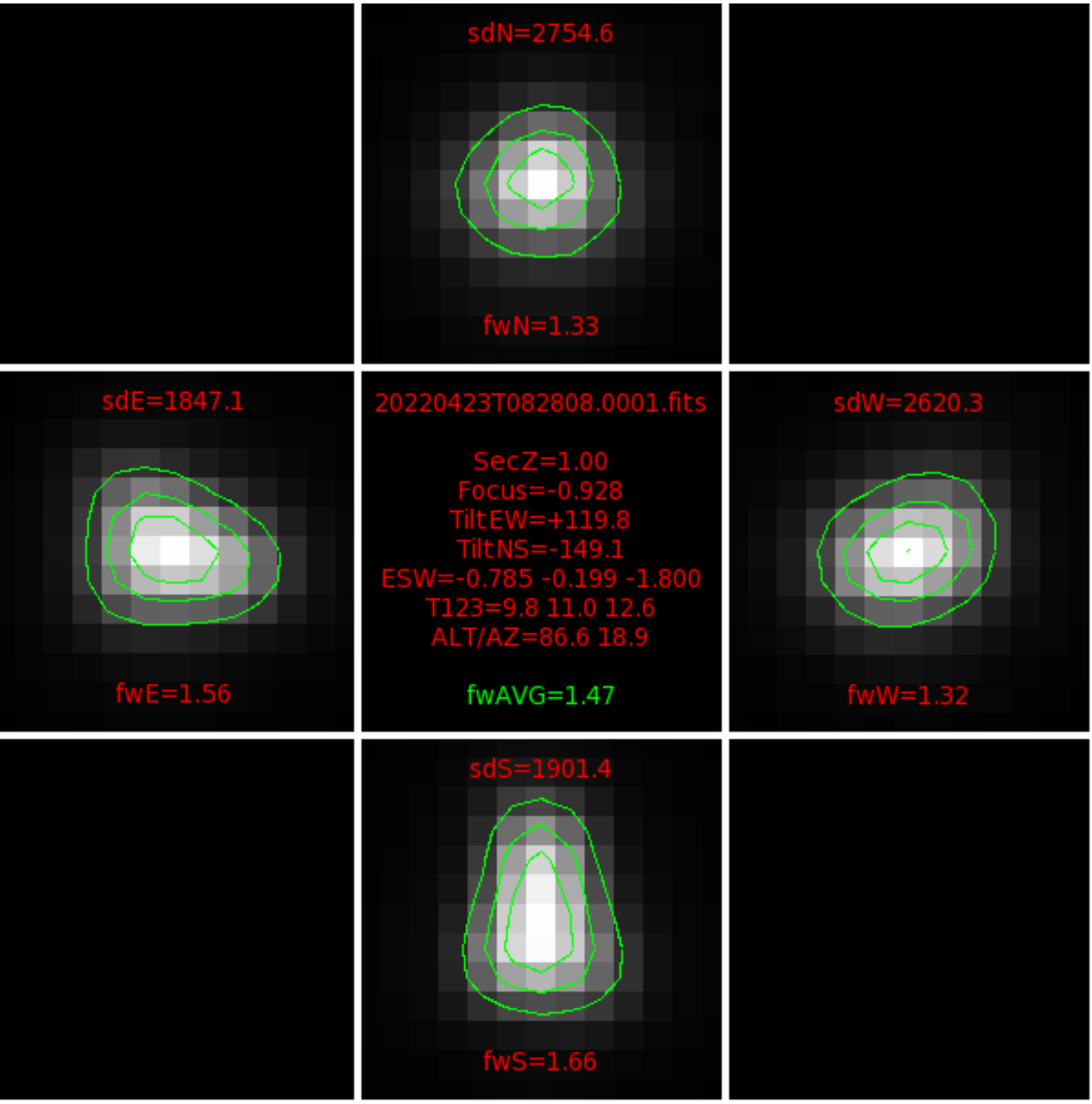
sdN=2754.6
fwN=1.33
sdE=1847.1
fwE=1.56
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SecZ=1.00
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=9.8 11.0 12.6
ALT/AZ=86.6 18.9
fwAVG=1.47
sdW=2620.3
fwW=1.32
sdS=1901.4
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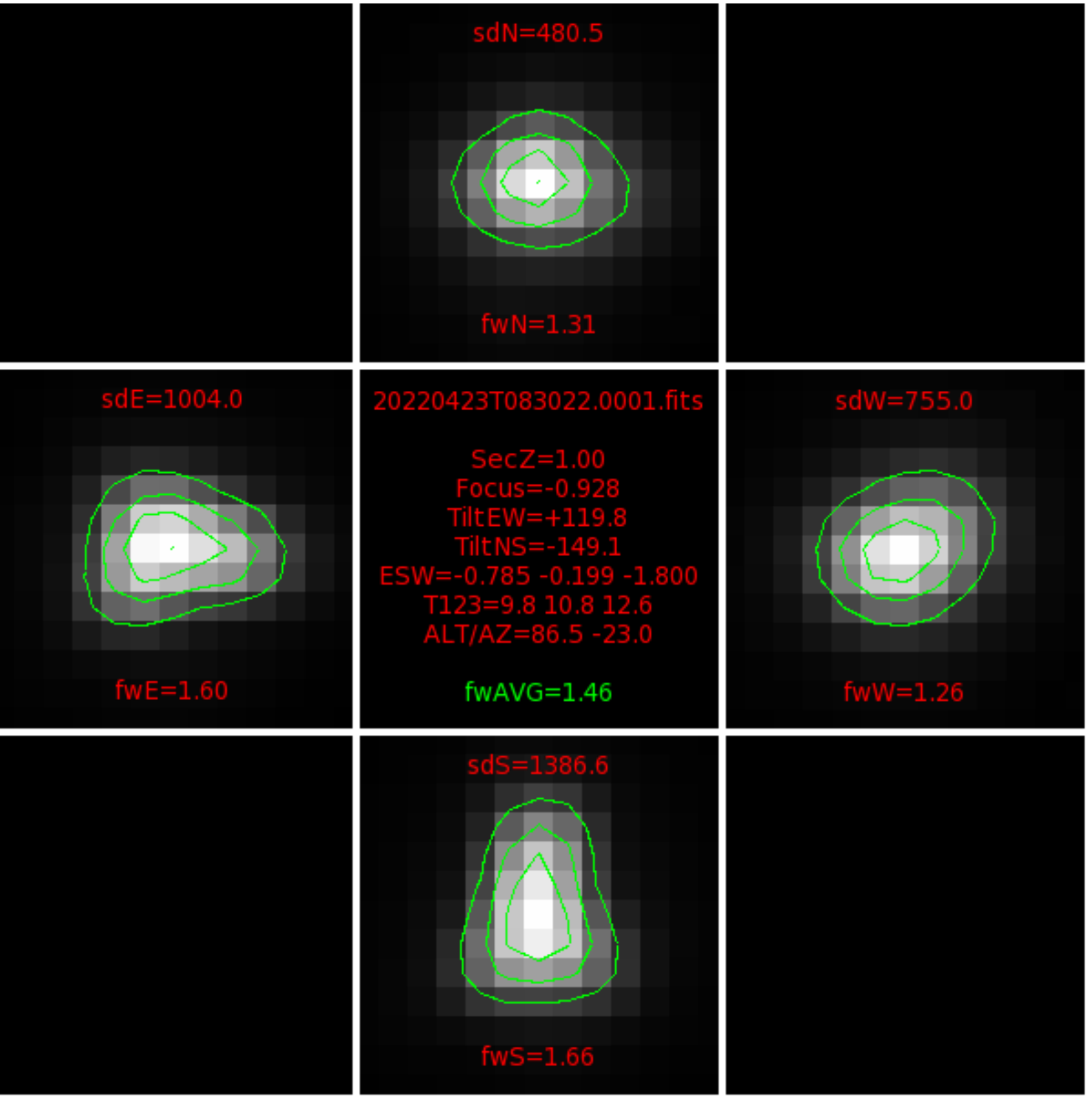
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fwN=1.31
sdE=1004.0
fwE=1.60
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SecZ=1.00
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=9.8 10.8 12.6
ALT/AZ=86.5 -23.0
fwAVG=1.46
sdW=755.0
fwW=1.26
sdS=1386.6
fwS=1.66
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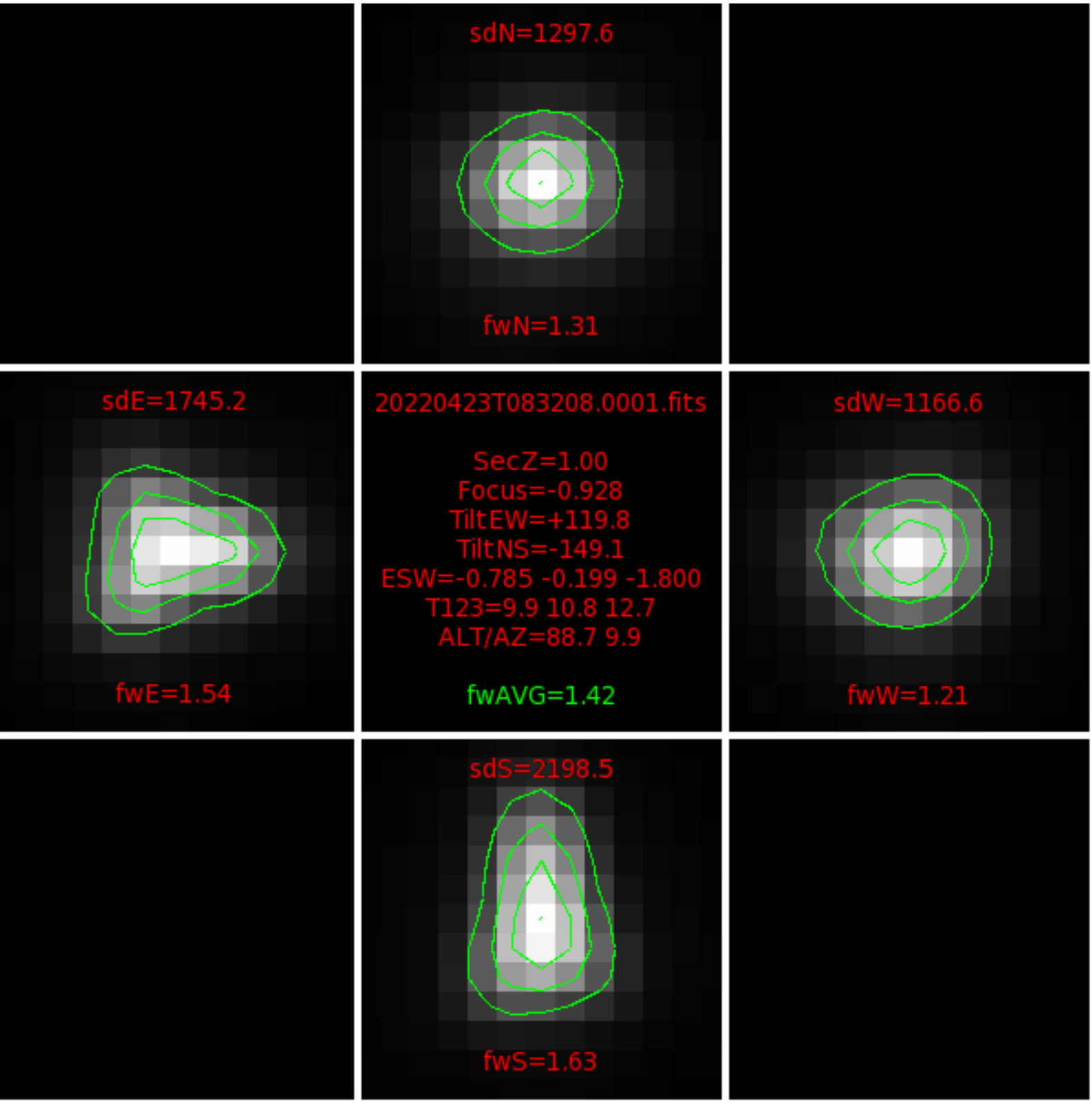
sdN=1297.6
fwN=1.31
sdE=1745.2
fwE=1.54
20220423T083208.0001.fits
SecZ=1.00
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=9.9 10.8 12.7
ALT/AZ=88.7 9.9
fwAVG=1.42
sdW=1166.6
fwW=1.21
sdS=2198.5
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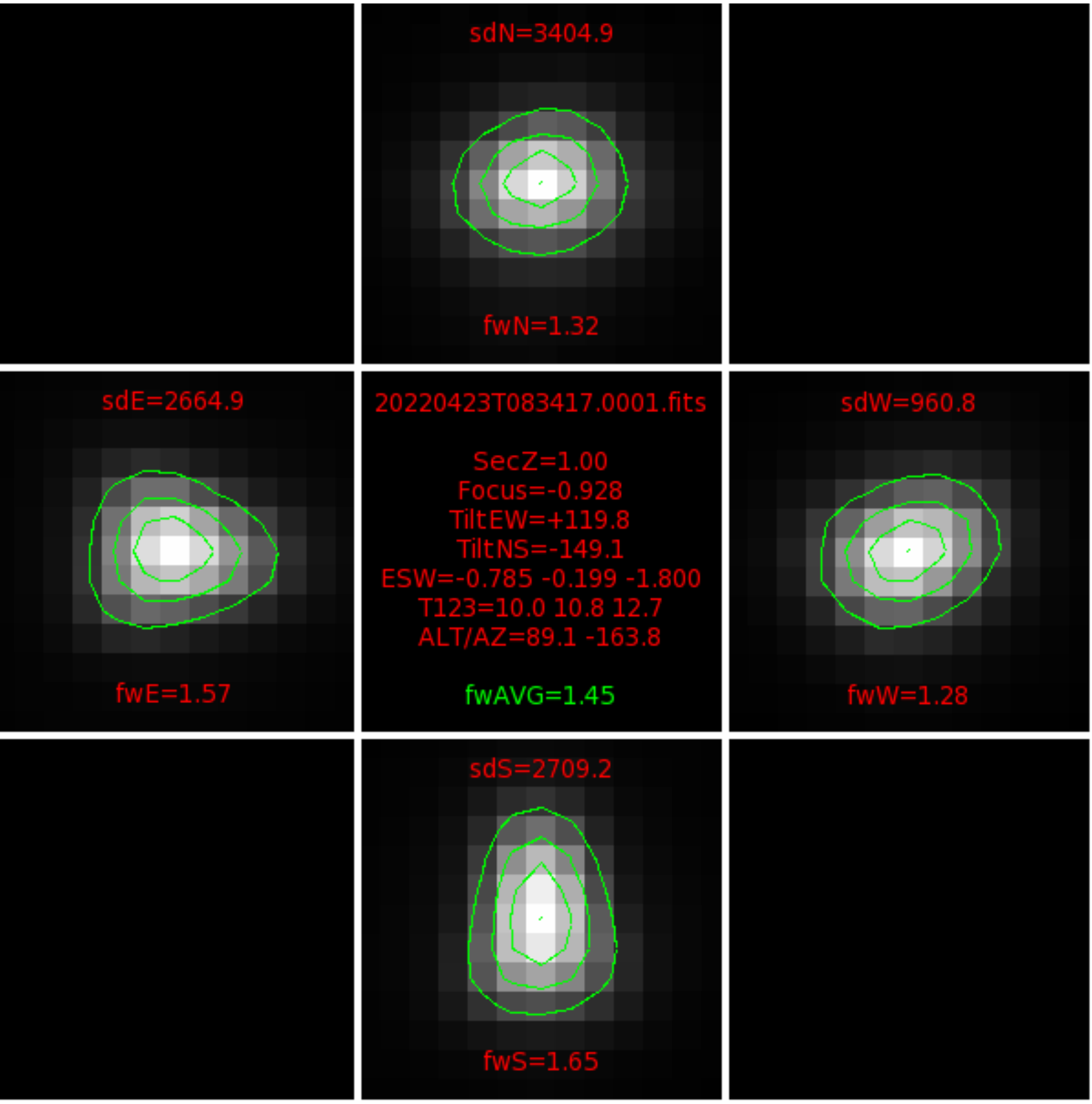
sdN=3404.9
fwN=1.32
sdE=2664.9
fwE=1.57
20220423T083417.0001.fits
SecZ=1.00
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.0 10.8 12.7
ALT/AZ=89.1 -163.8
fwAVG=1.45
sdW=960.8
fwW=1.28
sdS=2709.2
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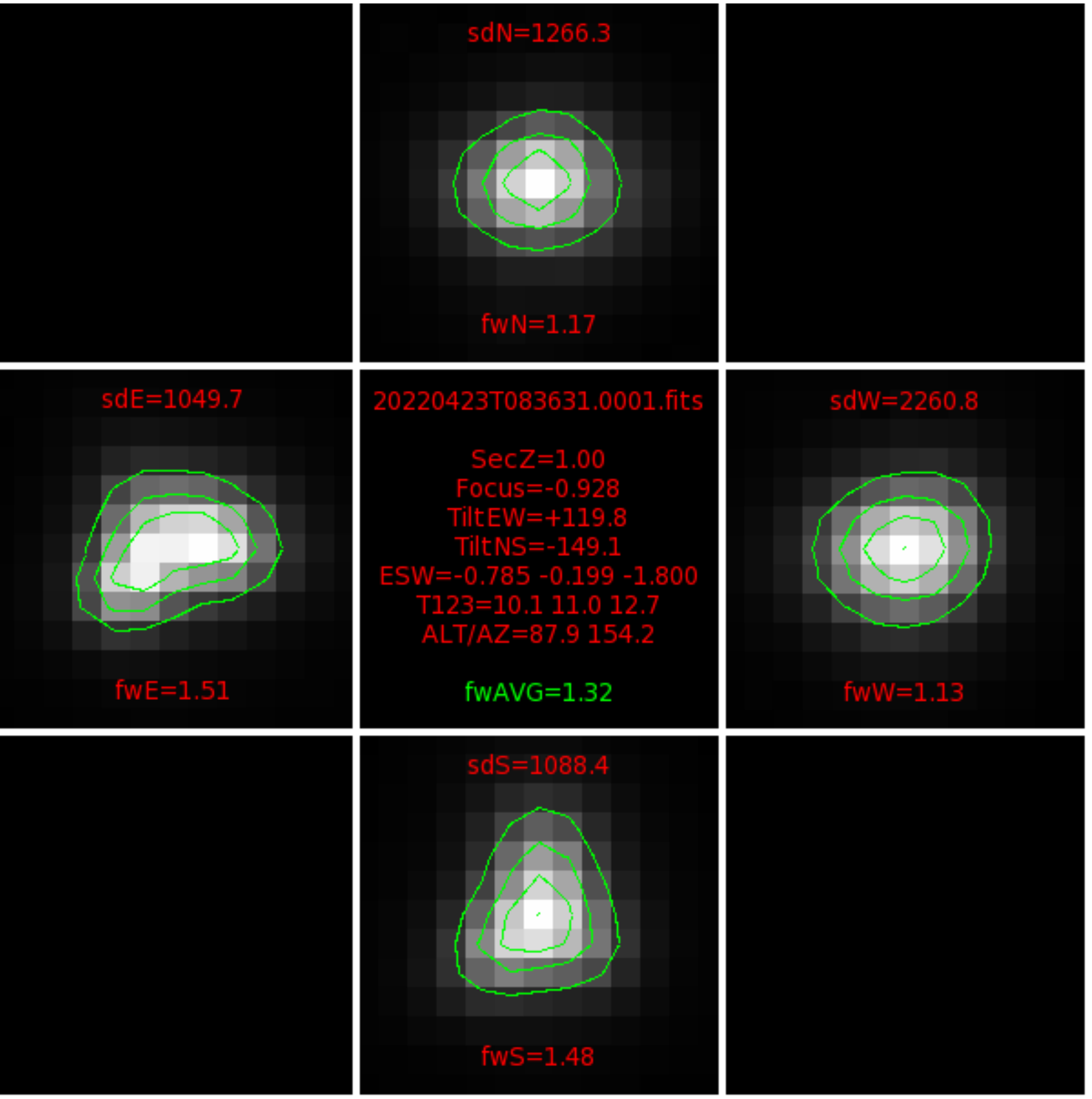
sdN=1266.3
fwN=1.17
sdE=1049.7
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SecZ=1.00
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.1 11.0 12.7
ALT/AZ=87.9 154.2
fwAVG=1.32
sdW=2260.8
fwW=1.13
sdS=1088.4
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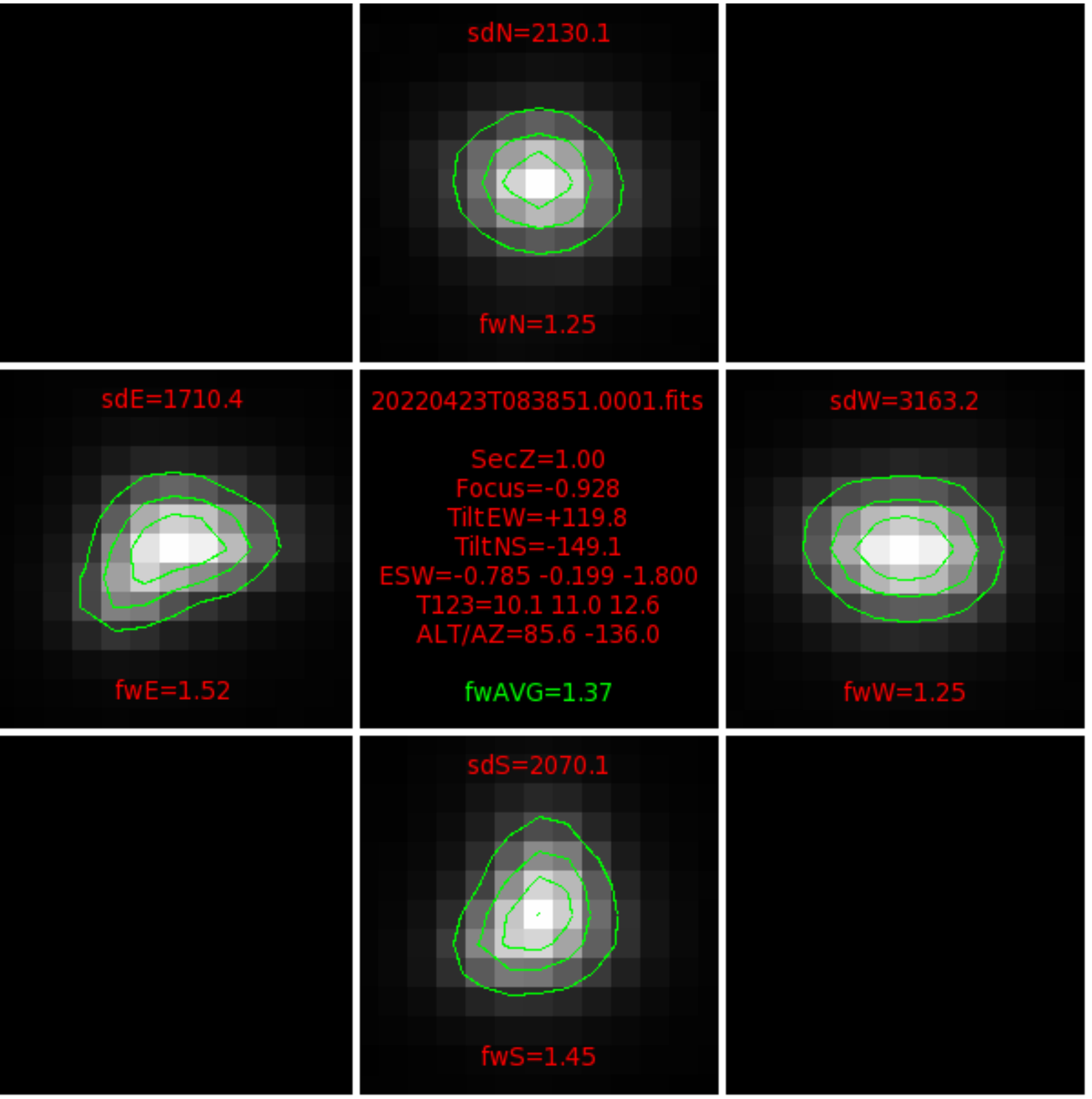
sdN=2130.1
fwN=1.25
sdE=1710.4
fwE=1.52
20220423T083851.0001.fits
SecZ=1.00
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.1 11.0 12.6
ALT/AZ=85.6 -136.0
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sdW=3163.2
fwW=1.25
sdS=2070.1
fwS=1.45
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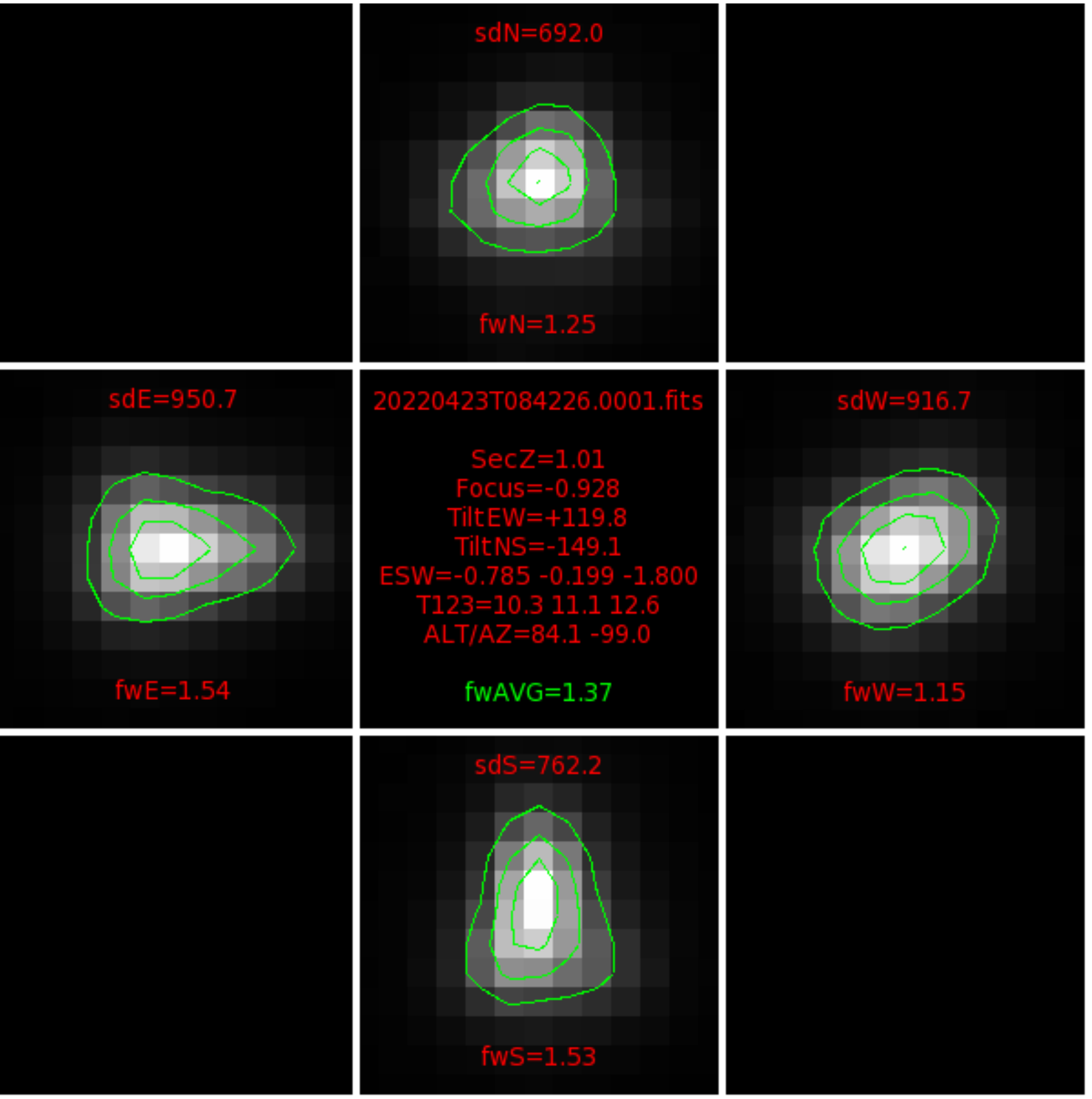
sdN=692.0
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sdE=950.7
fwE=1.54
20220423T084226.0001.fits
SecZ=1.01
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.3 11.1 12.6
ALT/AZ=84.1 -99.0
fwAVG=1.37
sdW=916.7
fwW=1.15
sdS=762.2
fwS=1.53
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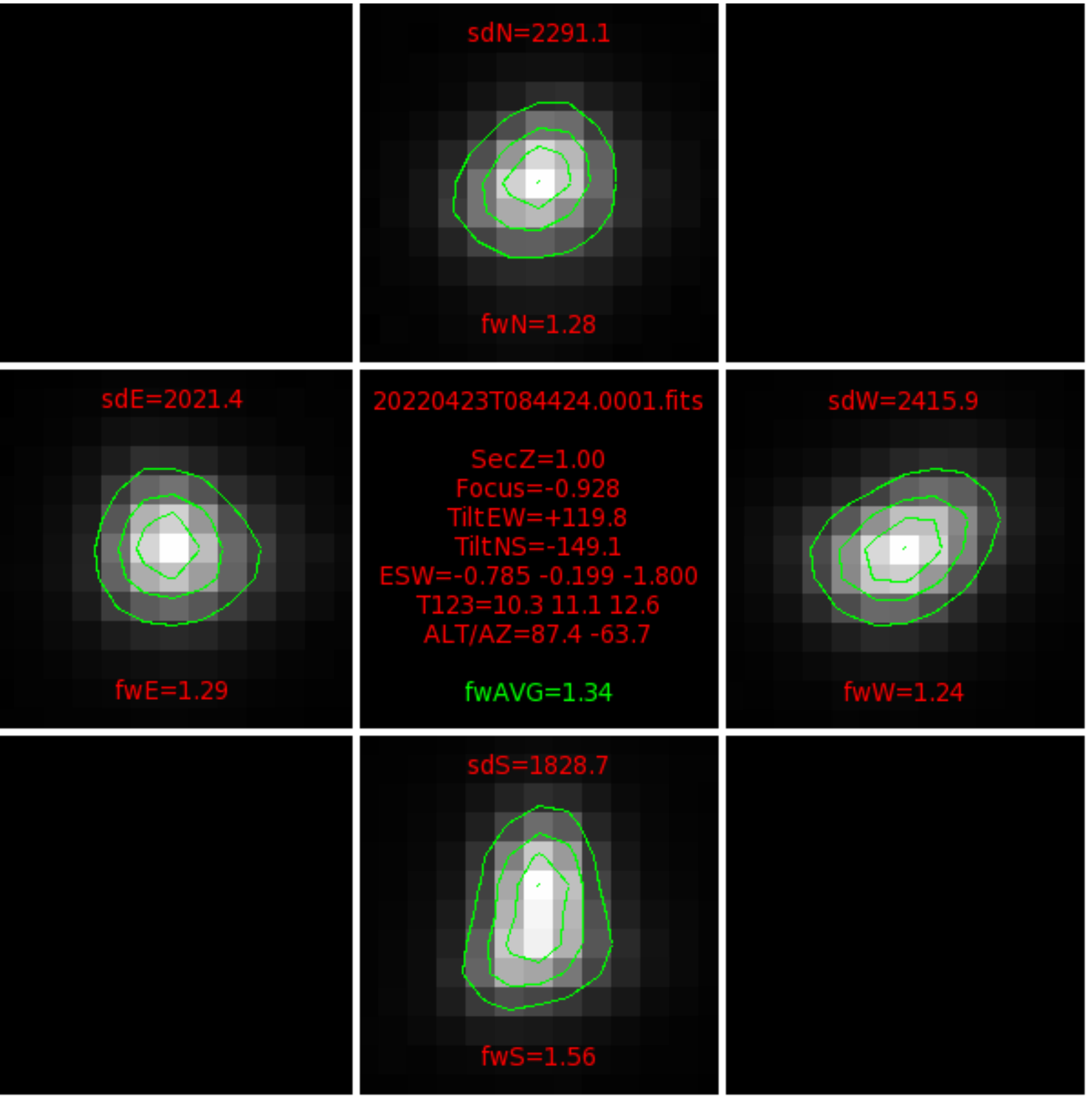
sdN=2291.1
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sdE=2021.4
fwE=1.29
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SecZ=1.00
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.3 11.1 12.6
ALT/AZ=87.4 -63.7
fwAVG=1.34
sdW=2415.9
fwW=1.24
sdS=1828.7
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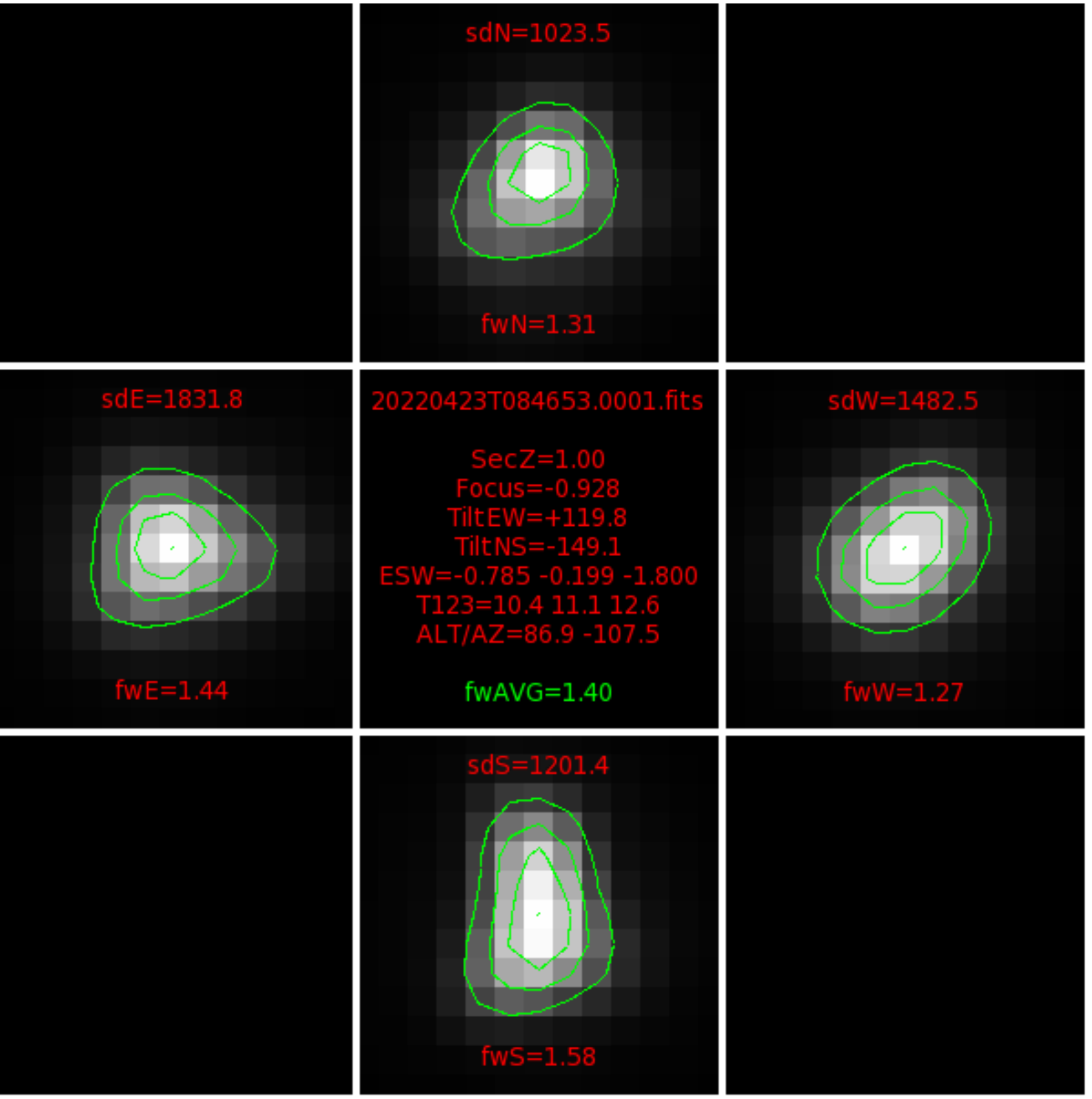
sdN=1023.5
fwN=1.31
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fwE=1.44
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SecZ=1.00
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.4 11.1 12.6
ALT/AZ=86.9 -107.5
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sdW=1482.5
fwW=1.27
sdS=1201.4
fwS=1.58
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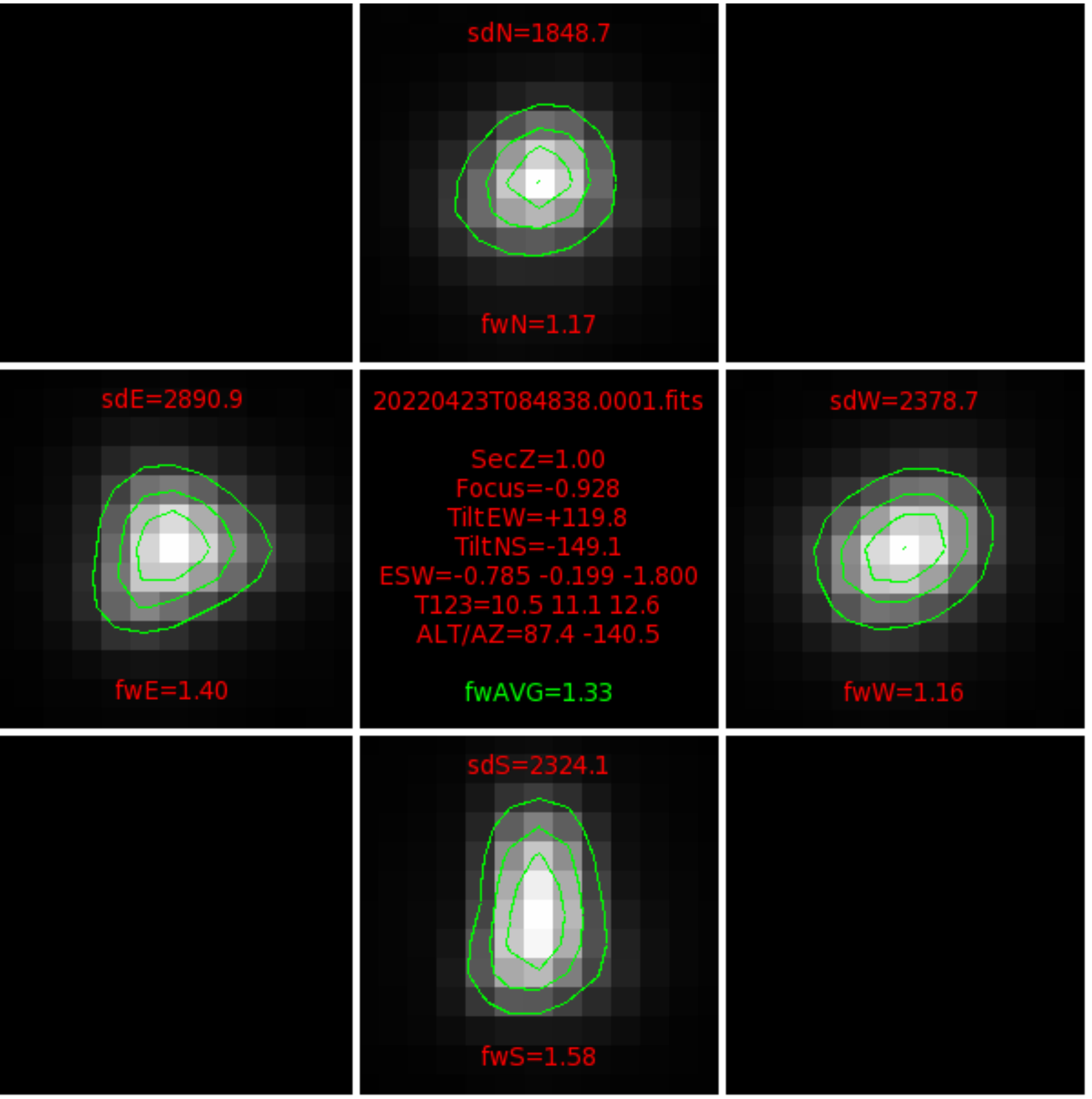
sdN=1848.7
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sdE=2890.9
fwE=1.40
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SecZ=1.00
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.5 11.1 12.6
ALT/AZ=87.4 -140.5
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sdW=2378.7
fwW=1.16
sdS=2324.1
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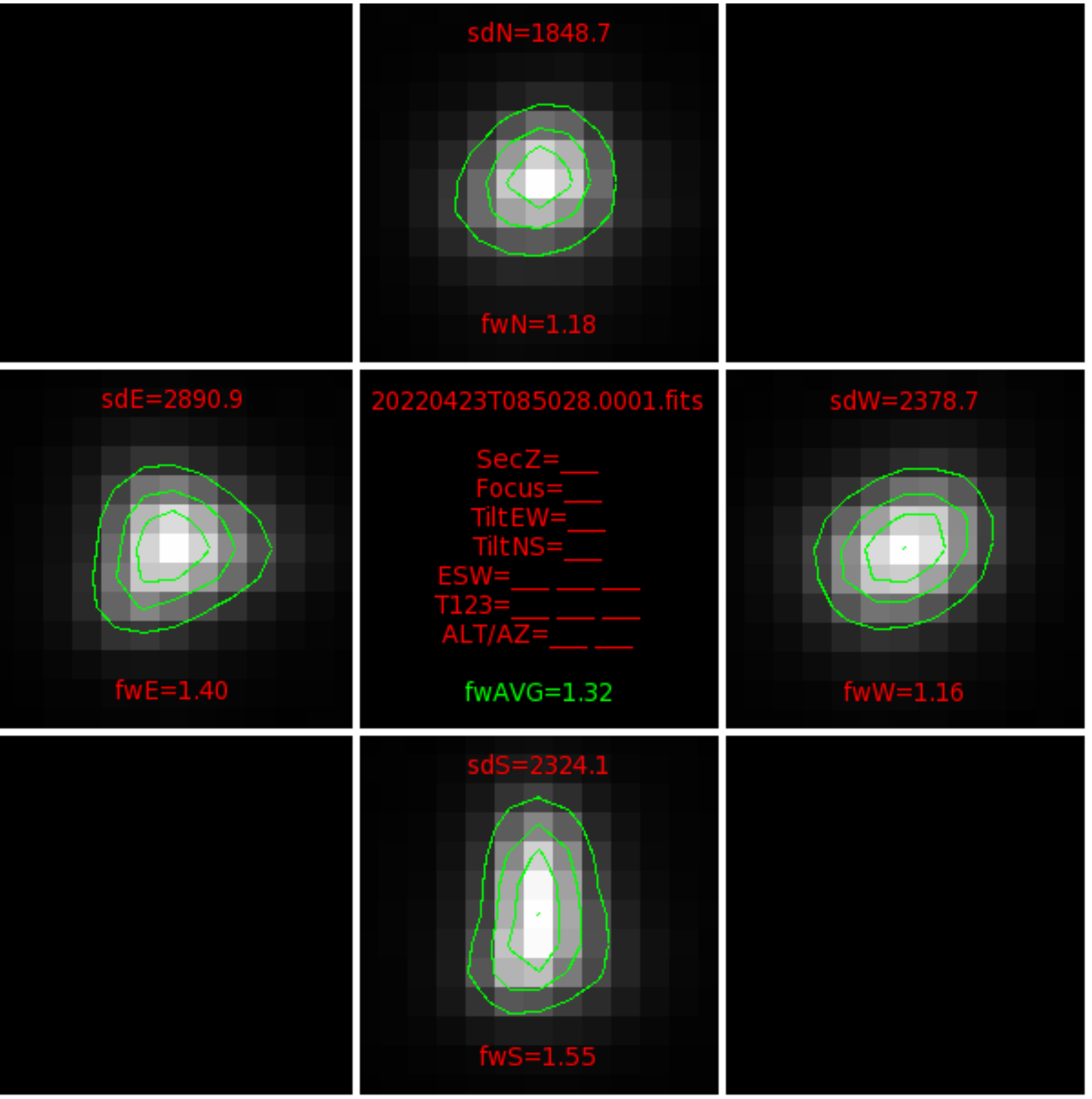
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sdE=2890.9
fwE=1.40
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SecZ=___
Focus=___
TiltEW=___
TiltNS=___
ESW=___ ___ ___
T123=___ ___ ___
ALT/AZ=___ ___
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sdW=2378.7
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sdS=2324.1
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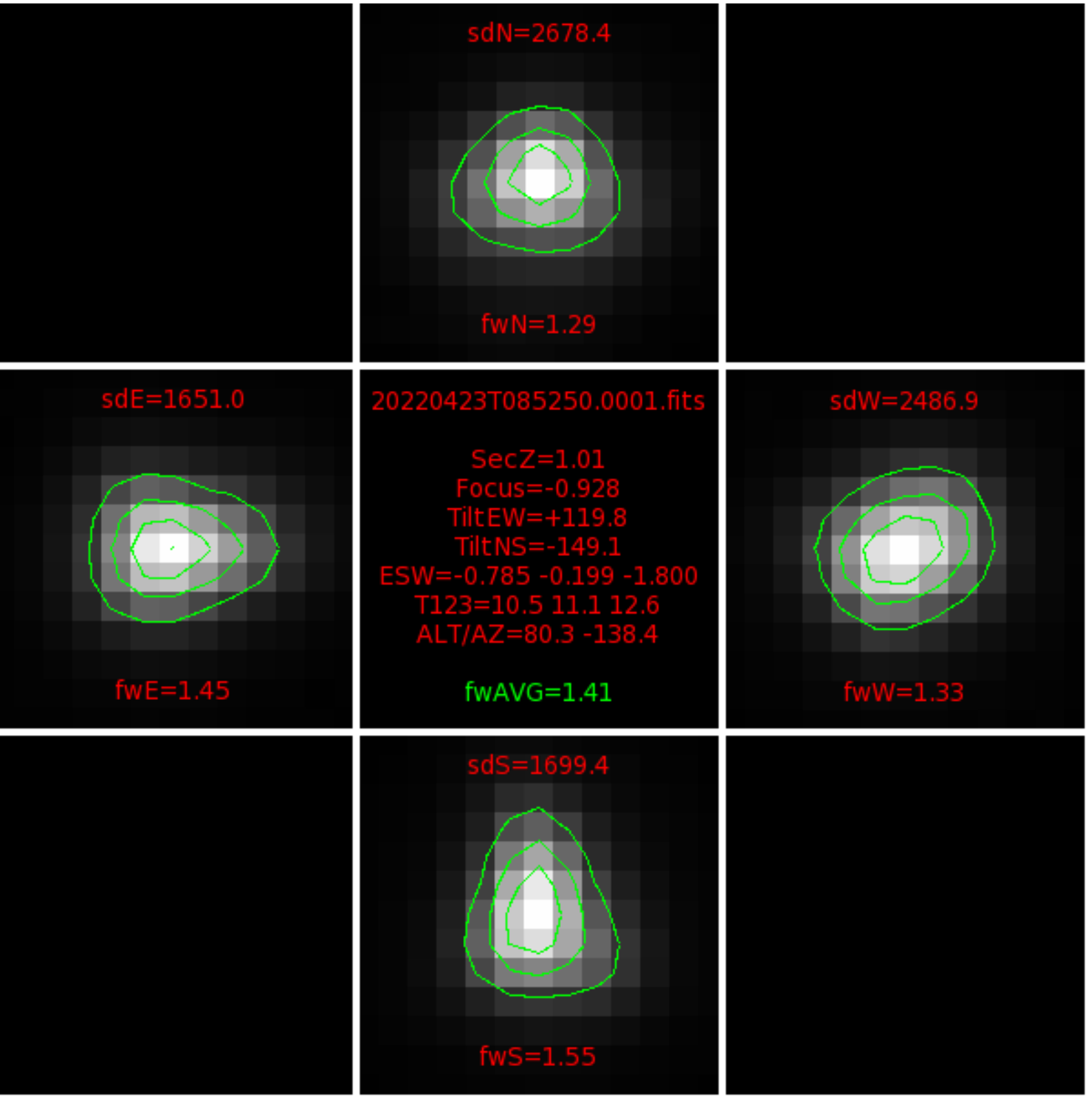
sdN=2678.4
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sdE=1651.0
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SecZ=1.01
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.5 11.1 12.6
ALT/AZ=80.3 -138.4
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sdW=2486.9
fwW=1.33
sdS=1699.4
fwS=1.55
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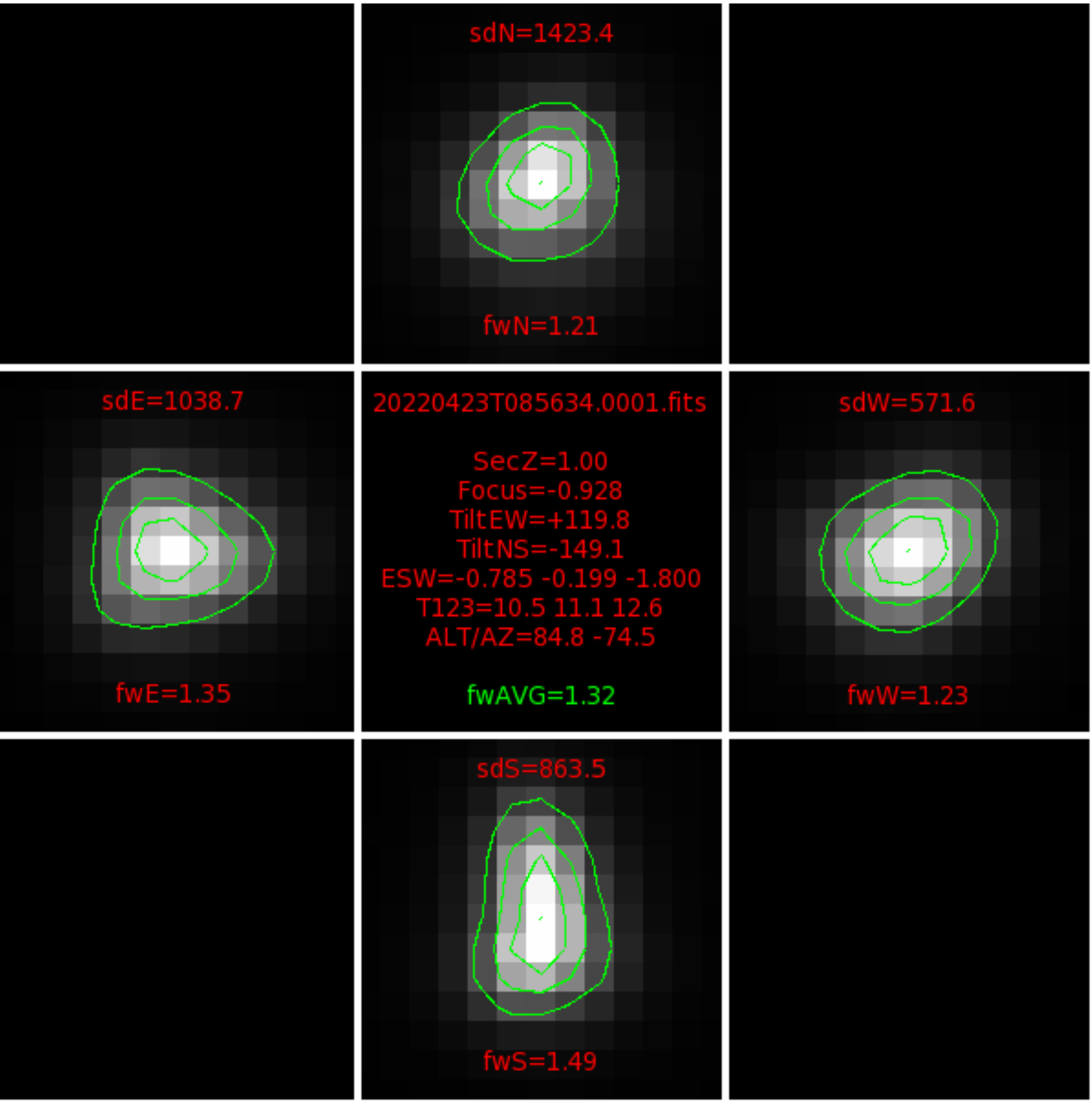
sdN=1423.4
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sdE=1038.7
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SecZ=1.00
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.5 11.1 12.6
ALT/AZ=84.8 -74.5
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sdW=571.6
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sdS=863.5
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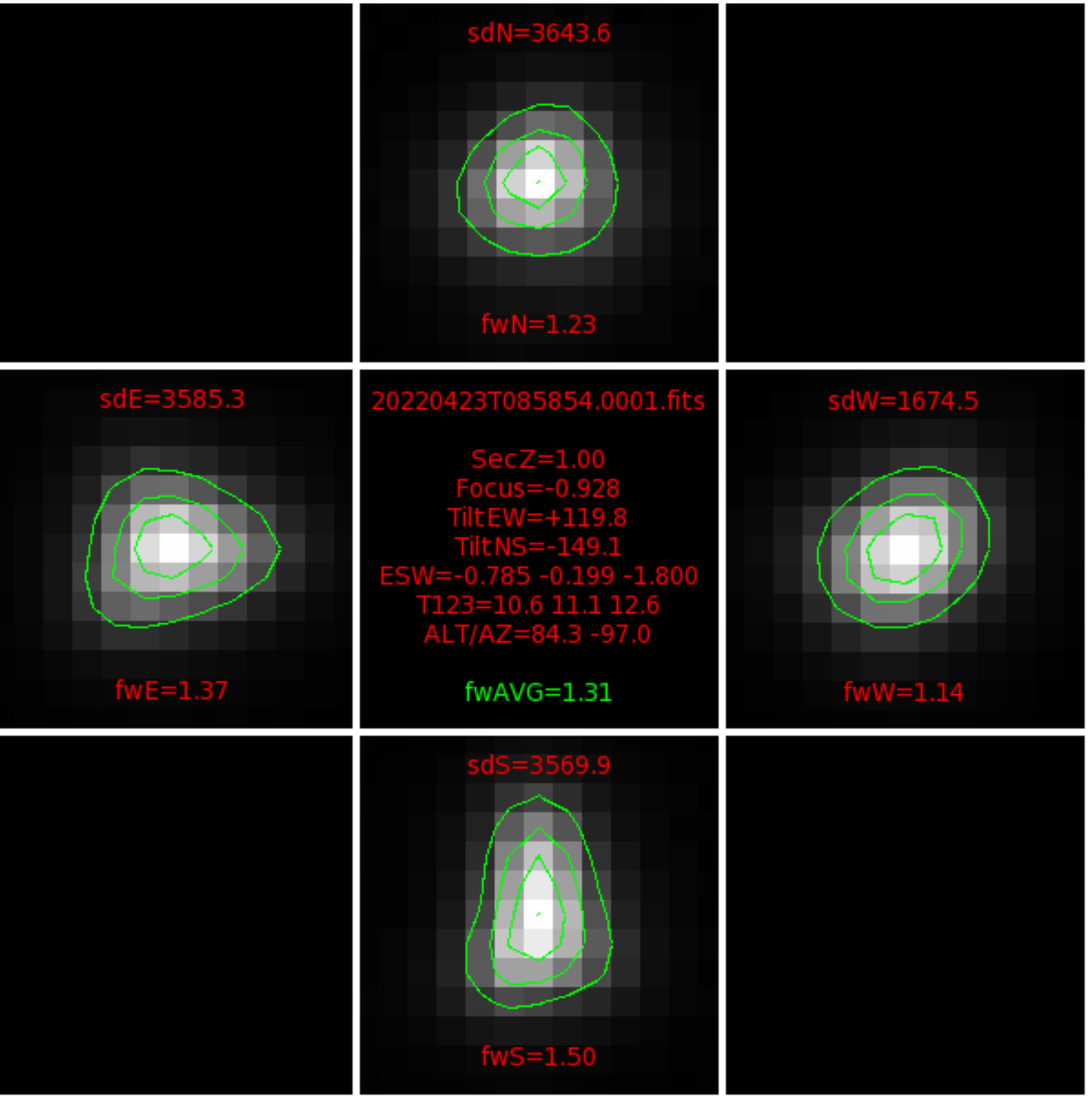
sdN=3643.6
fwN=1.23
sdE=3585.3
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SecZ=1.00
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.6 11.1 12.6
ALT/AZ=84.3 -97.0
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sdW=1674.5
fwW=1.14
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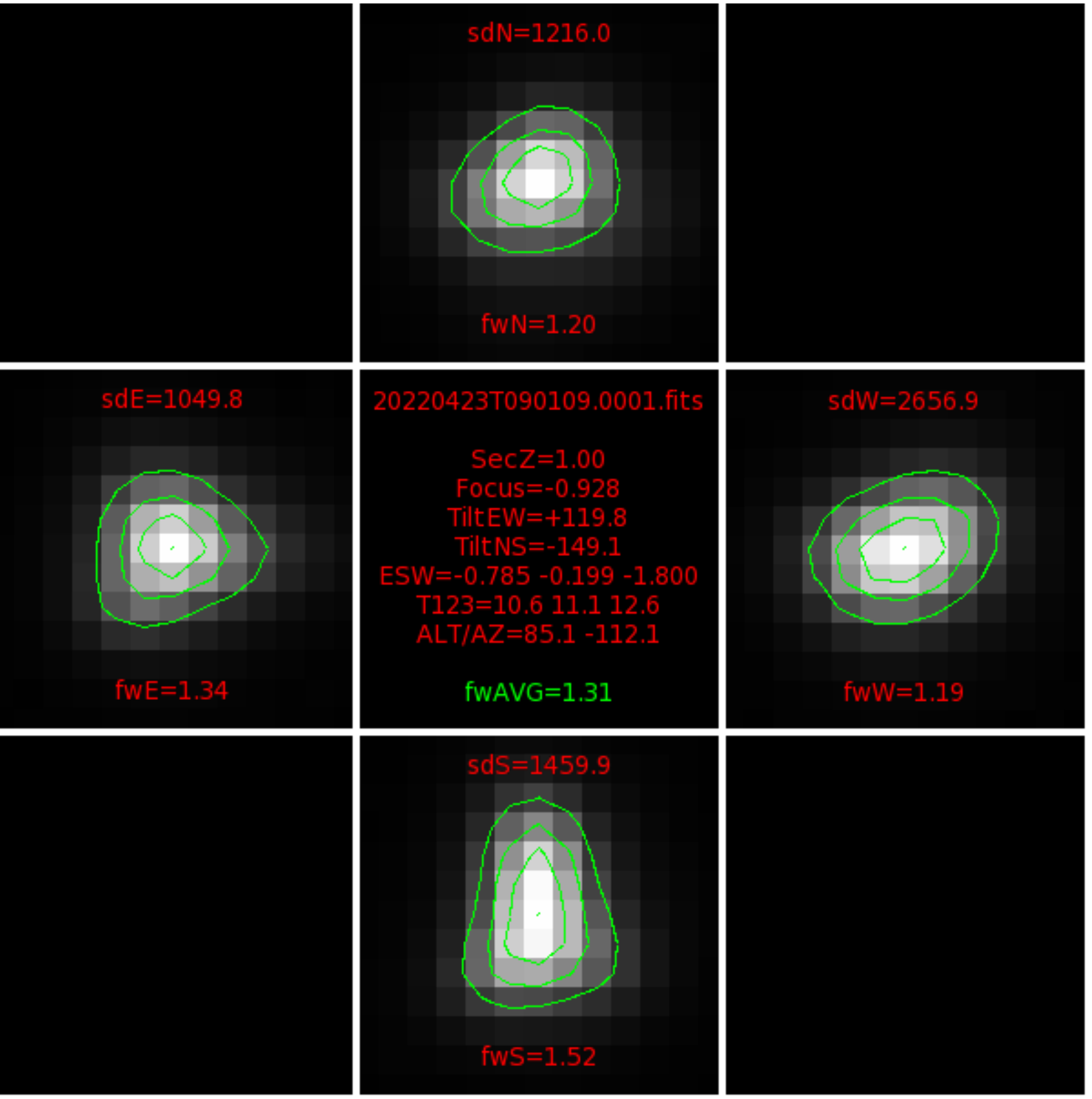
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sdE=1049.8
fwE=1.34
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SecZ=1.00
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.6 11.1 12.6
ALT/AZ=85.1 -112.1
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sdW=2656.9
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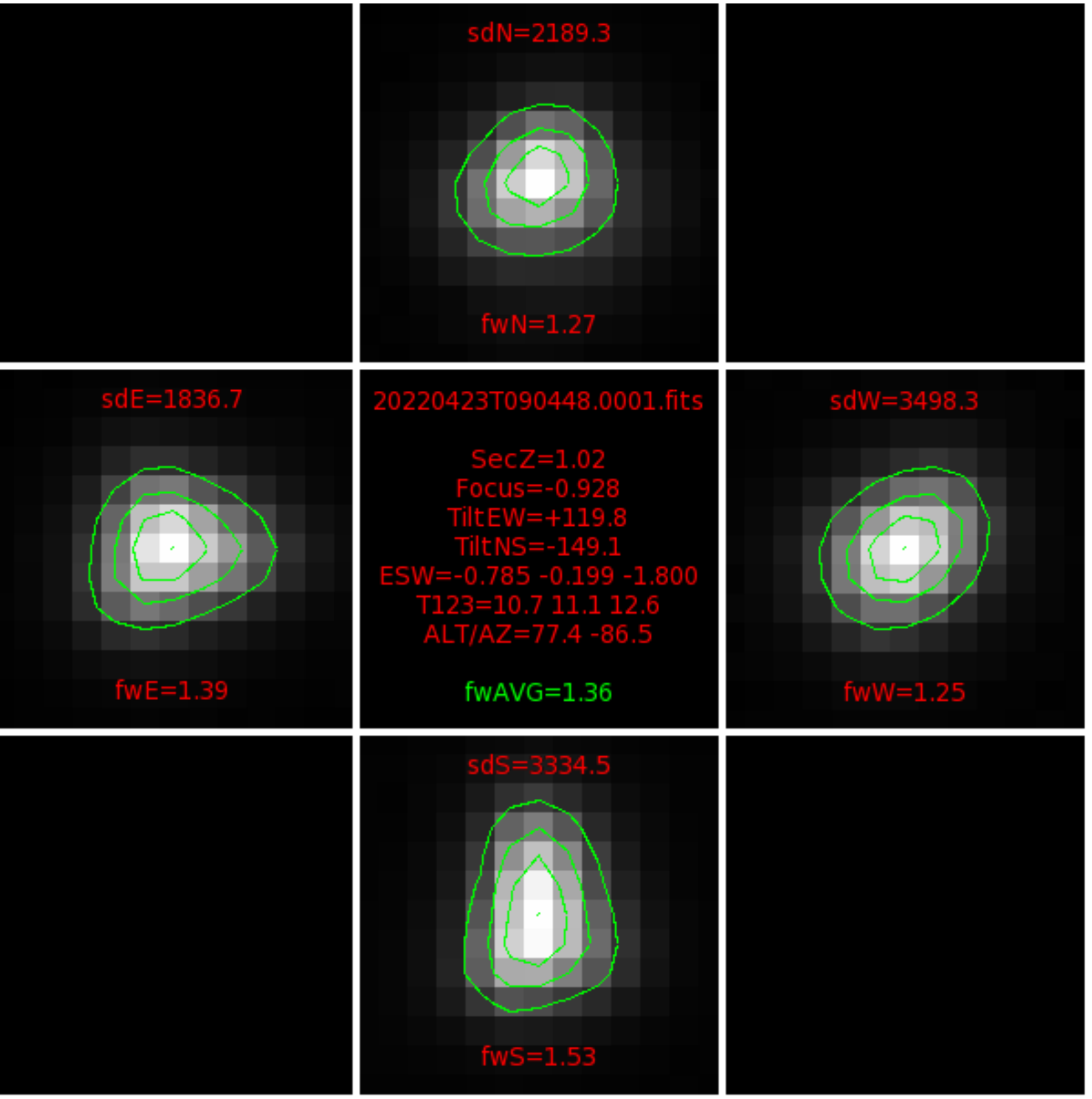
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sdE=1836.7
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SecZ=1.02
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.7 11.1 12.6
ALT/AZ=77.4 -86.5
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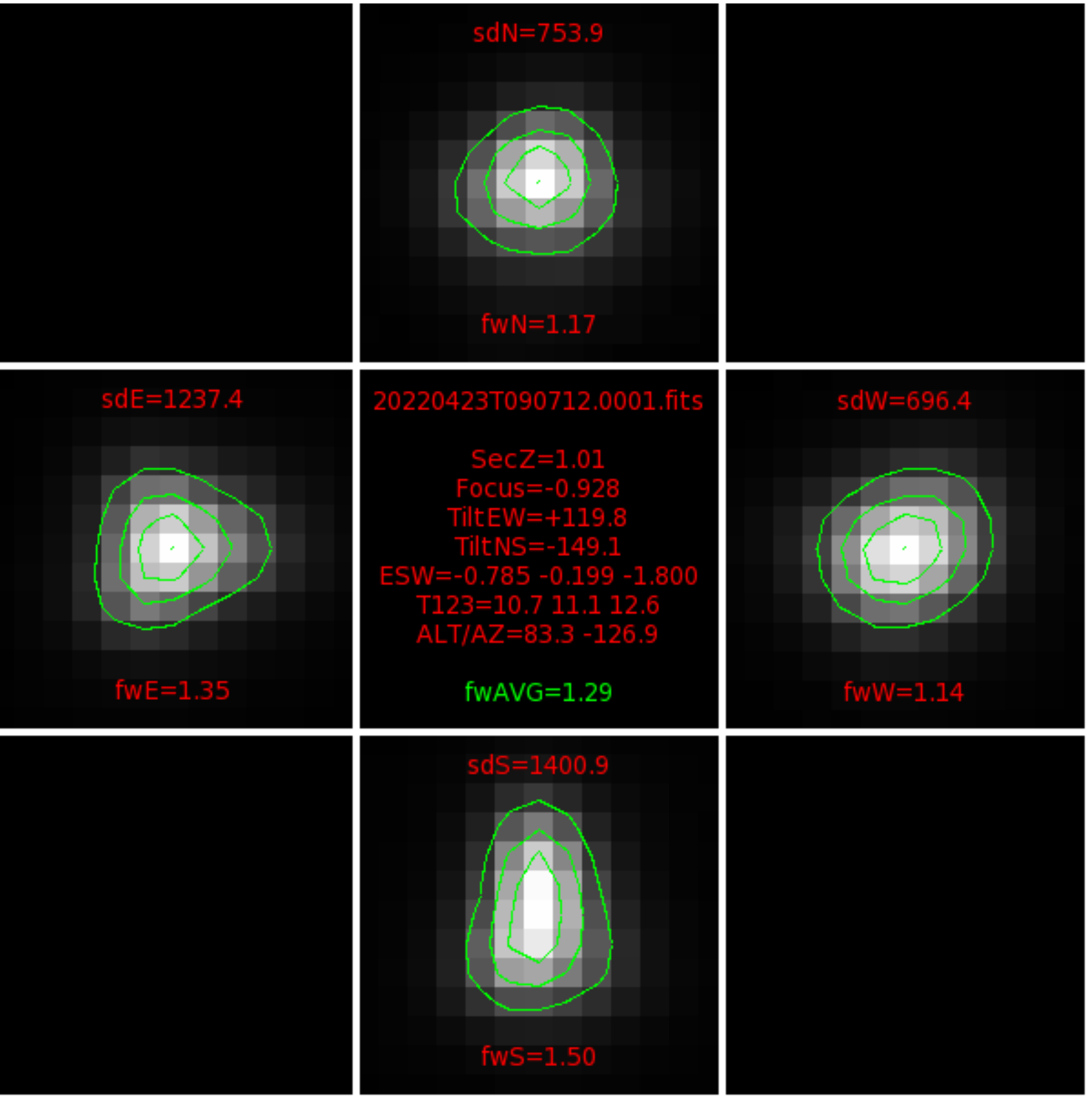
sdN=753.9
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sdE=1237.4
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SecZ=1.01
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.7 11.1 12.6
ALT/AZ=83.3 -126.9
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sdW=696.4
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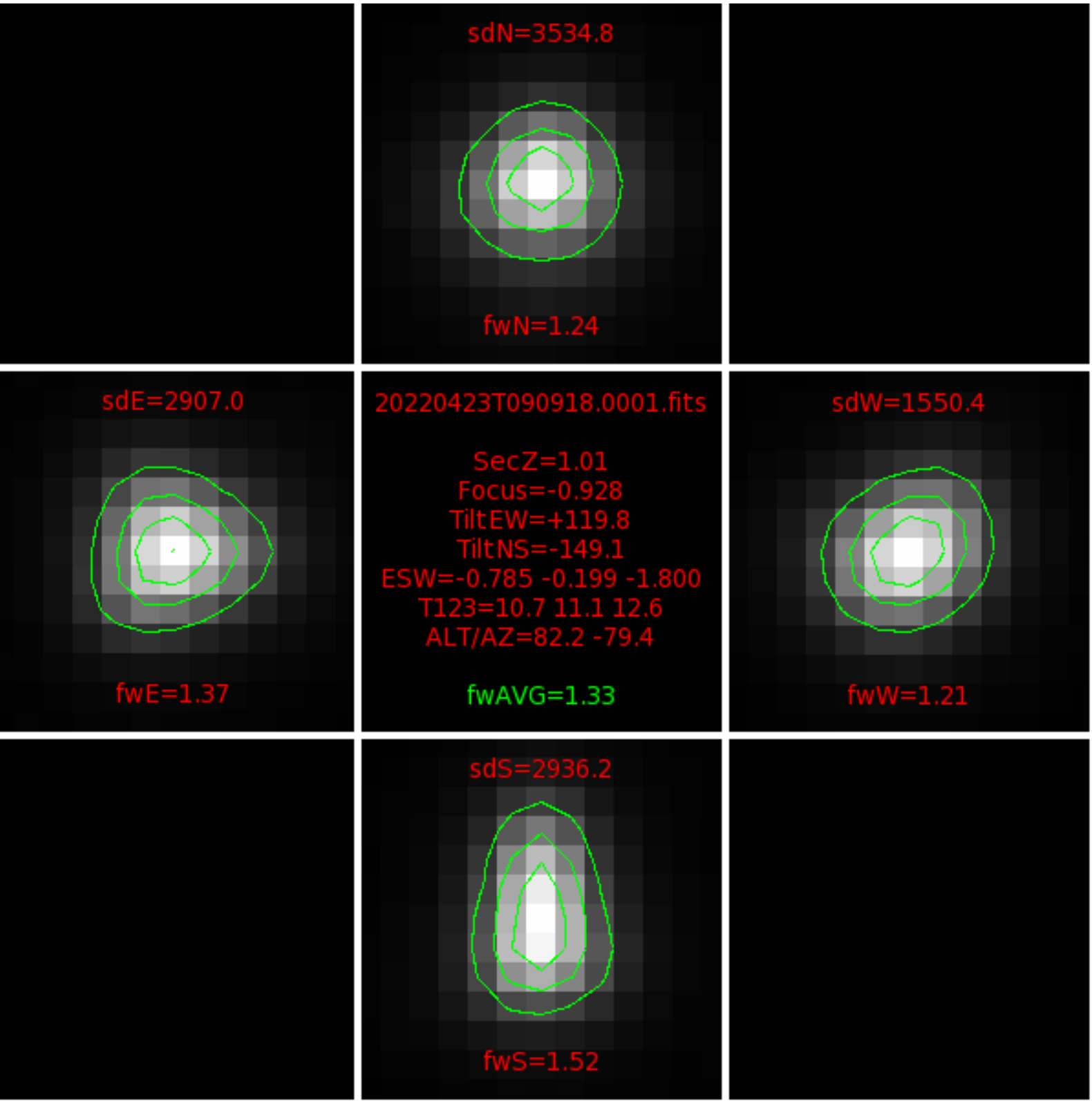
sdN=3534.8
fwN=1.24
sdE=2907.0
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SecZ=1.01
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.7 11.1 12.6
ALT/AZ=82.2 -79.4
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sdW=1550.4
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sdS=2936.2
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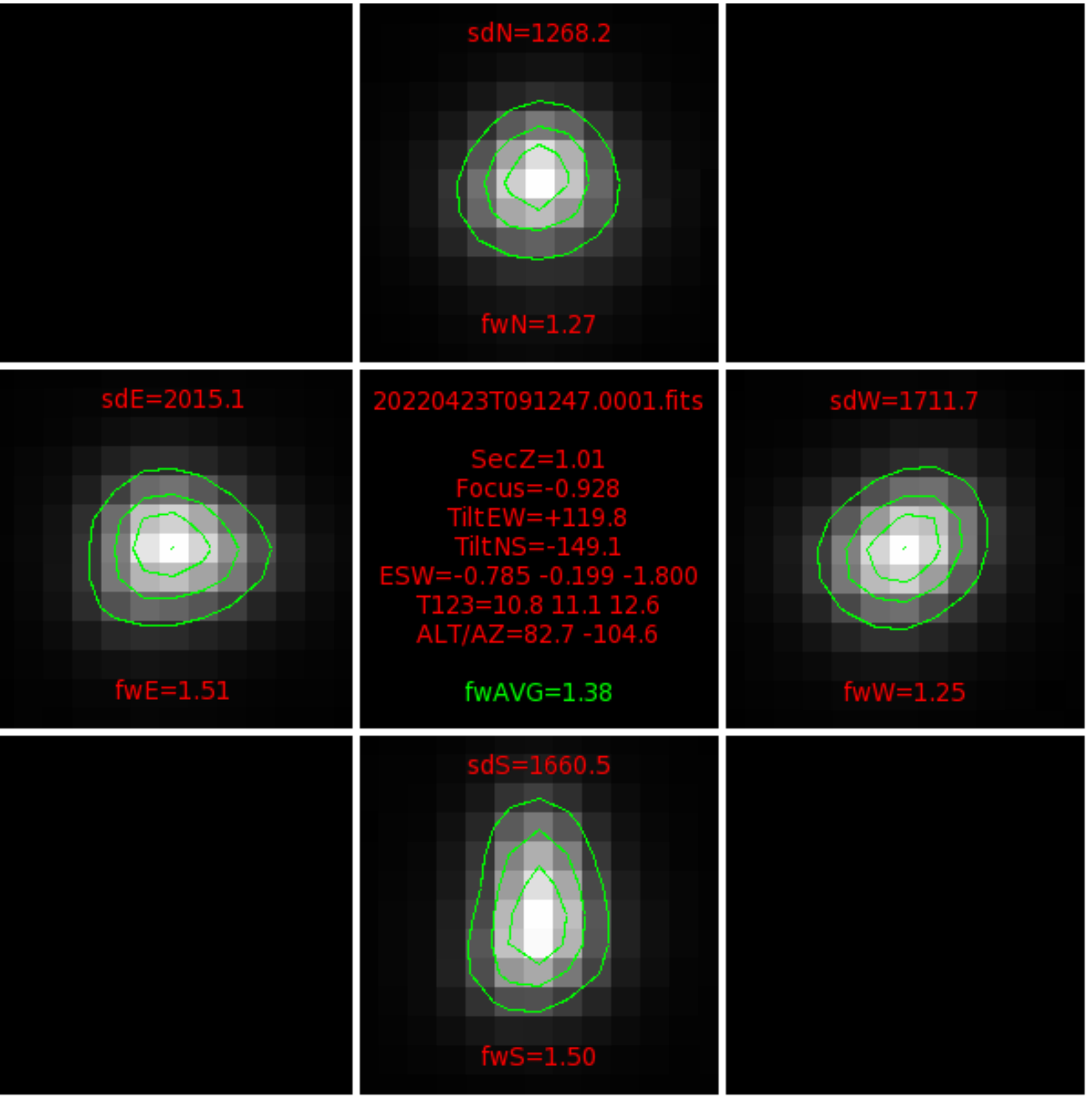
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fwN=1.27
sdE=2015.1
fwE=1.51
20220423T091247.0001.fits
SecZ=1.01
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.8 11.1 12.6
ALT/AZ=82.7 -104.6
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sdW=1711.7
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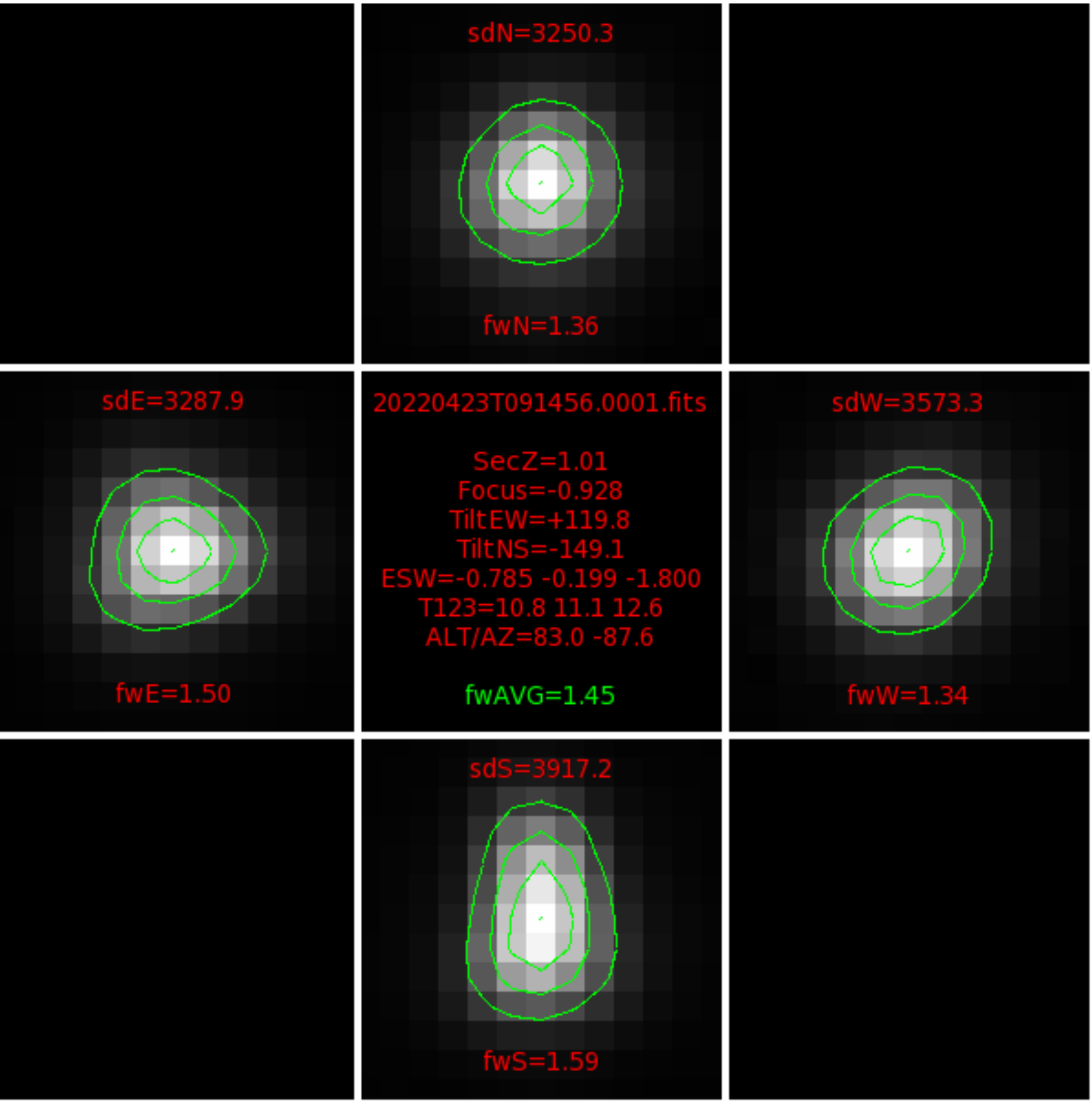
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sdE=3287.9
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SecZ=1.01
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.8 11.1 12.6
ALT/AZ=83.0 -87.6
fwAVG=1.45
sdW=3573.3
fwW=1.34
sdS=3917.2
fwS=1.59
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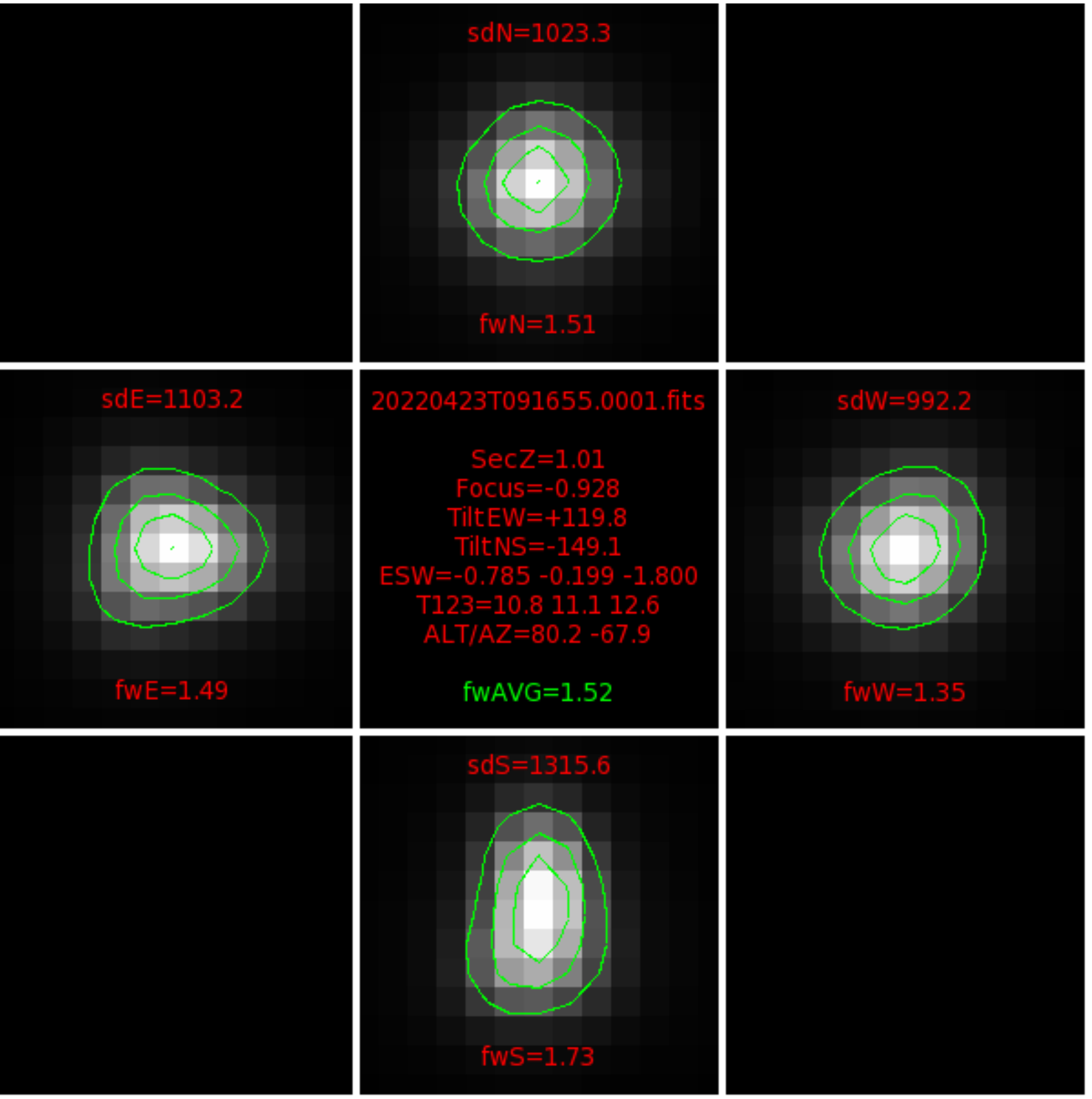
sdN=1023.3
fwN=1.51
sdE=1103.2
fwE=1.49
20220423T091655.0001.fits
SecZ=1.01
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.8 11.1 12.6
ALT/AZ=80.2 -67.9
fwAVG=1.52
sdW=992.2
fwW=1.35
sdS=1315.6
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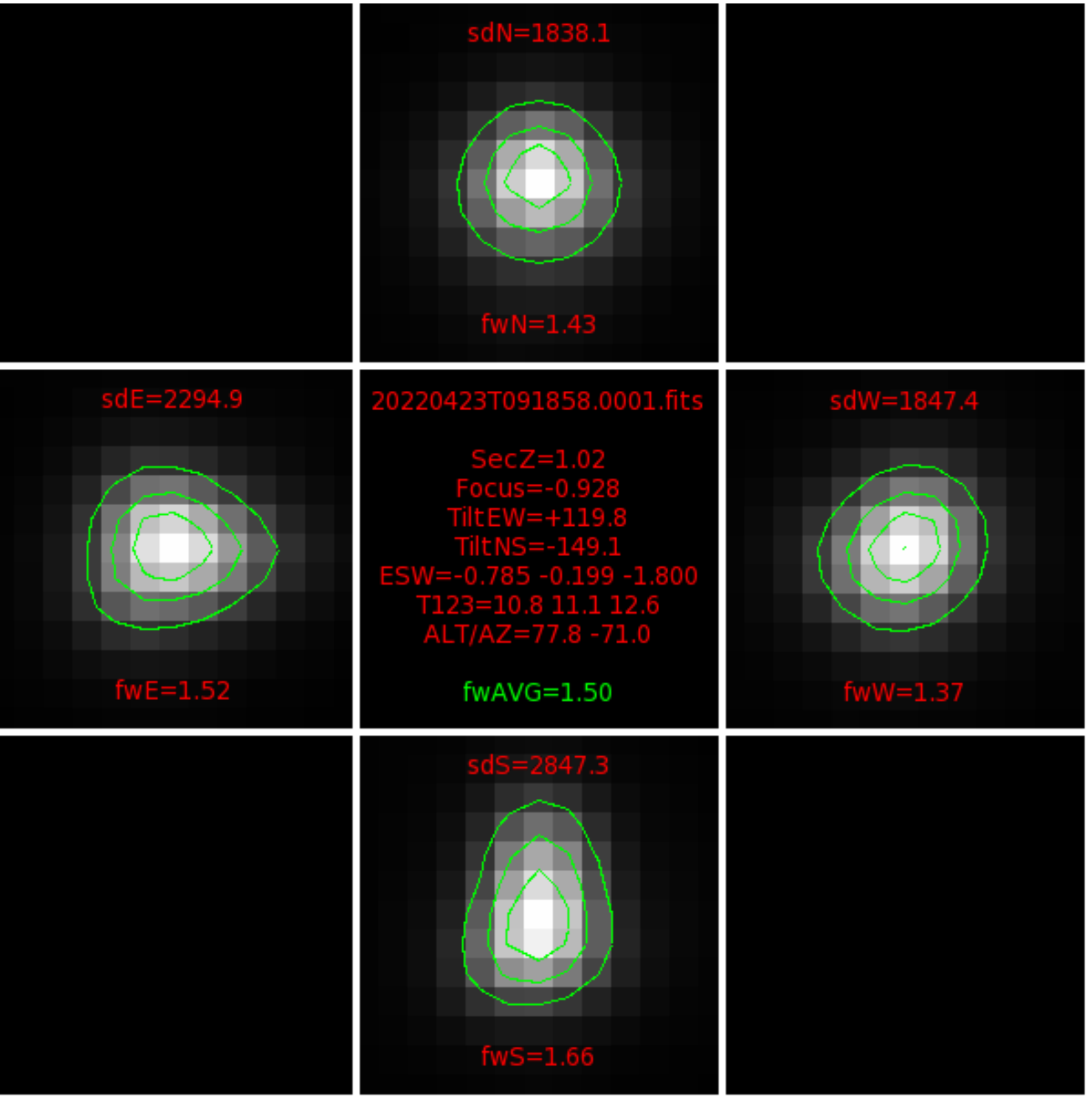
sdN=1838.1
fwN=1.43
sdE=2294.9
fwE=1.52
20220423T091858.0001.fits
SecZ=1.02
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.8 11.1 12.6
ALT/AZ=77.8 -71.0
fwAVG=1.50
sdW=1847.4
fwW=1.37
sdS=2847.3
fwS=1.66
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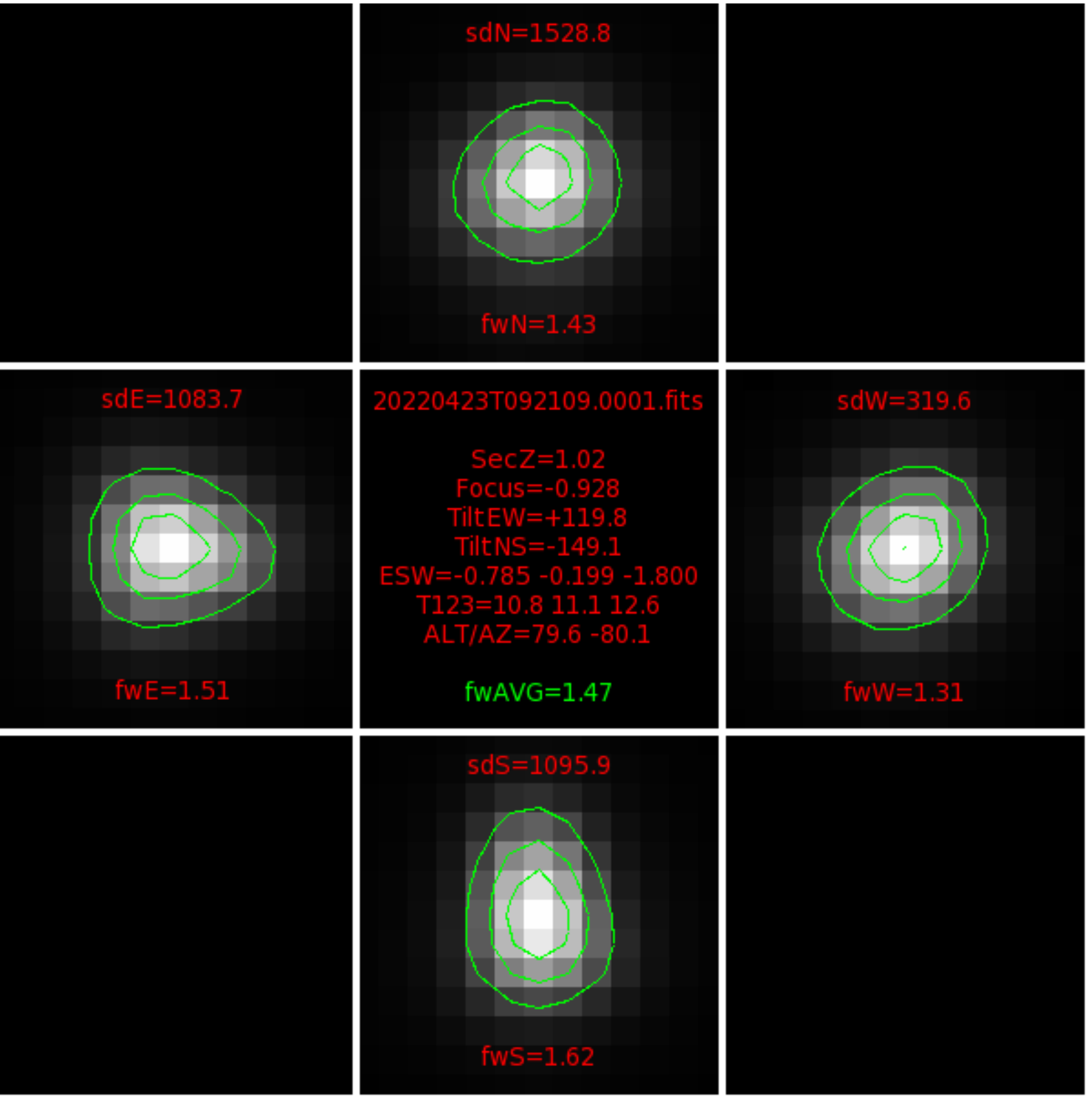
sdN=1528.8
fwN=1.43
sdE=1083.7
fwE=1.51
20220423T092109.0001.fits
SecZ=1.02
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.8 11.1 12.6
ALT/AZ=79.6 -80.1
fwAVG=1.47
sdW=319.6
fwW=1.31
sdS=1095.9
fwS=1.62
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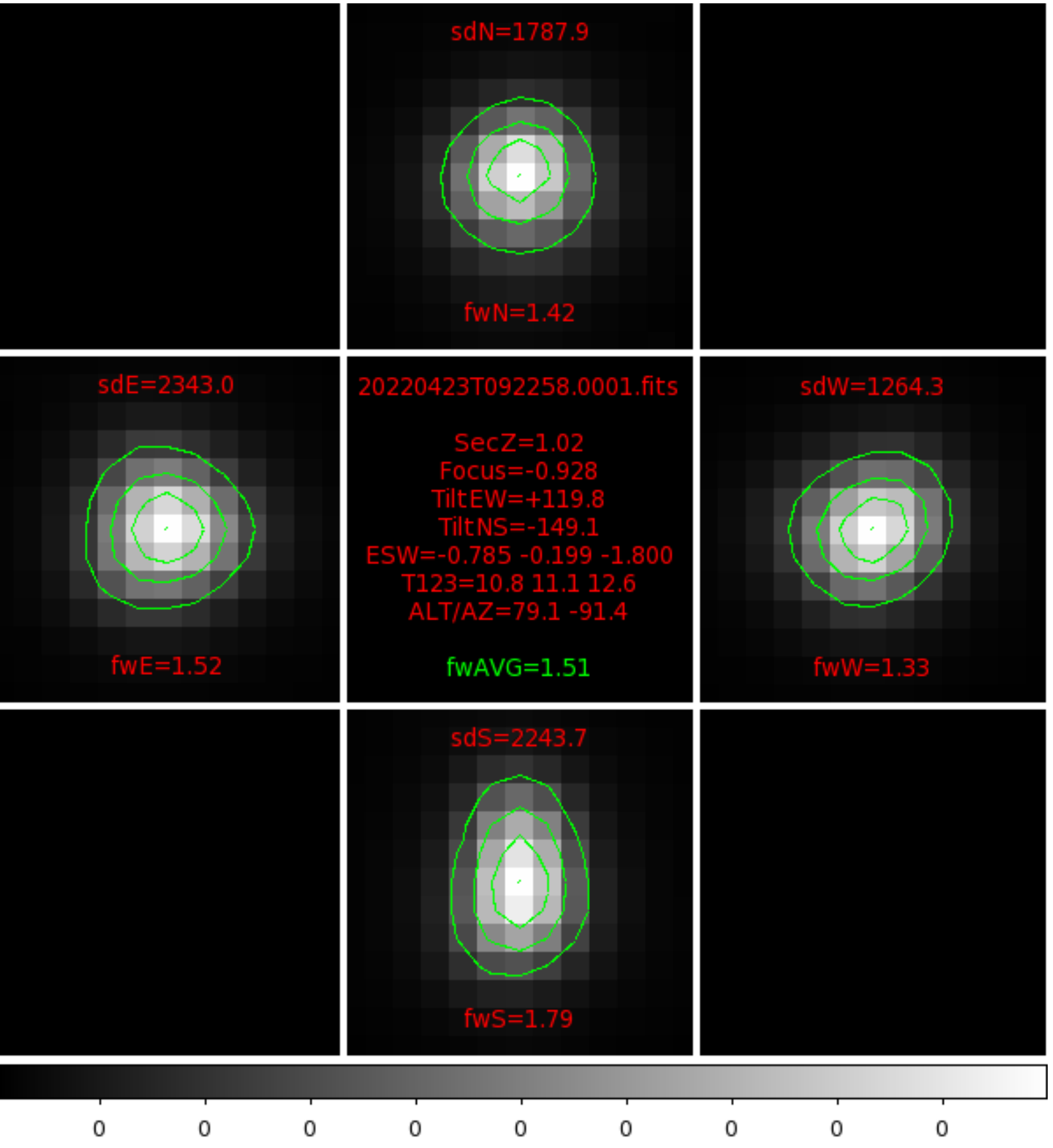
sdN=1787.9
fwN=1.42
sdE=2343.0
fwE=1.52
20220423T092258.0001.fits
SecZ=1.02
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.8 11.1 12.6
ALT/AZ=79.1 -91.4
fwAVG=1.51
sdW=1264.3
fwW=1.33
sdS=2243.7
fwS=1.79
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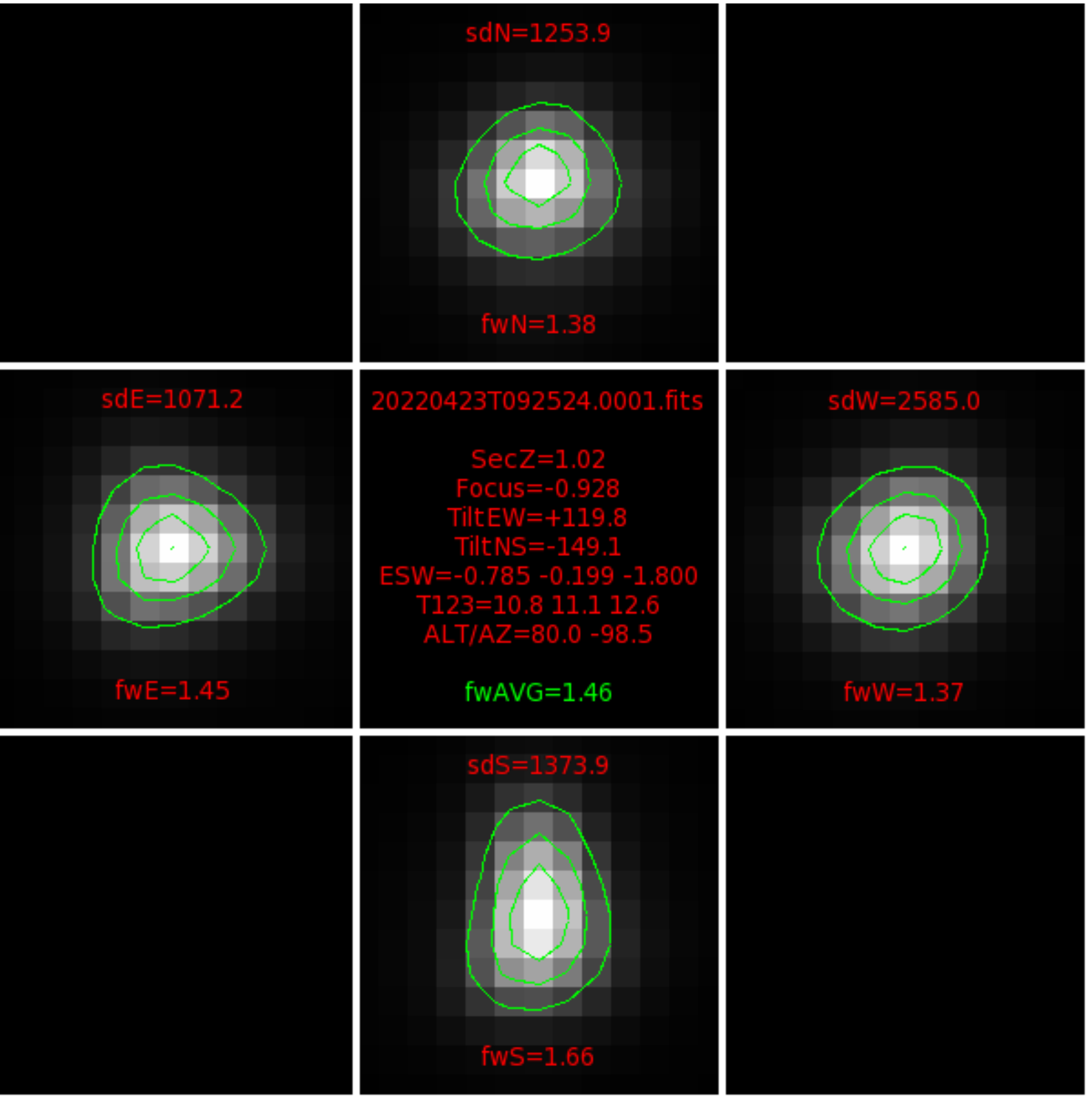
sdN=1253.9
fwN=1.38
sdE=1071.2
fwE=1.45
20220423T092524.0001.fits
SecZ=1.02
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.8 11.1 12.6
ALT/AZ=80.0 -98.5
fwAVG=1.46
sdW=2585.0
fwW=1.37
sdS=1373.9
fwS=1.66
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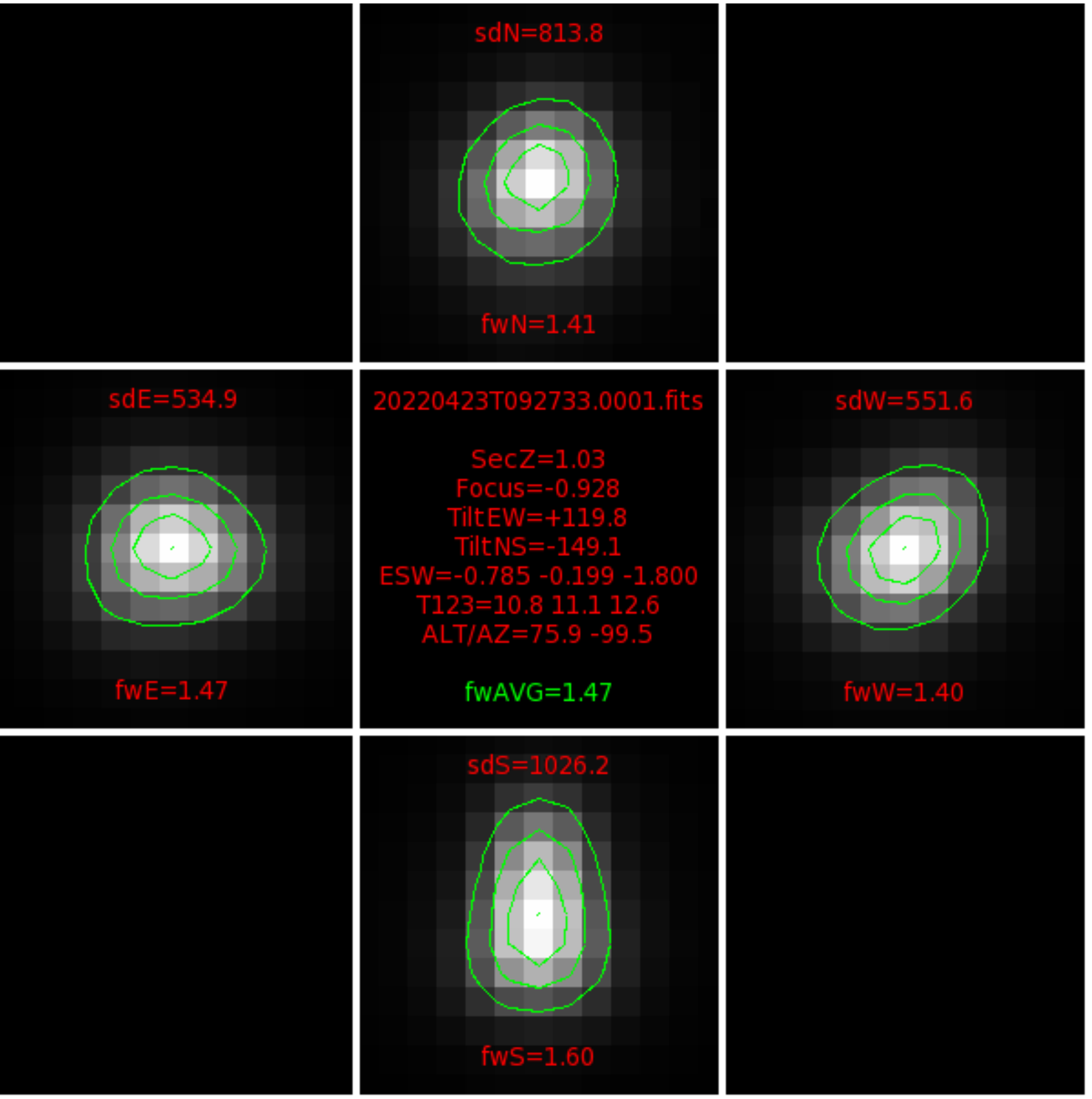
sdN=813.8
fwN=1.41
sdE=534.9
fwE=1.47
20220423T092733.0001.fits
SecZ=1.03
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.8 11.1 12.6
ALT/AZ=75.9 -99.5
fwAVG=1.47
sdW=551.6
fwW=1.40
sdS=1026.2
fwS=1.60
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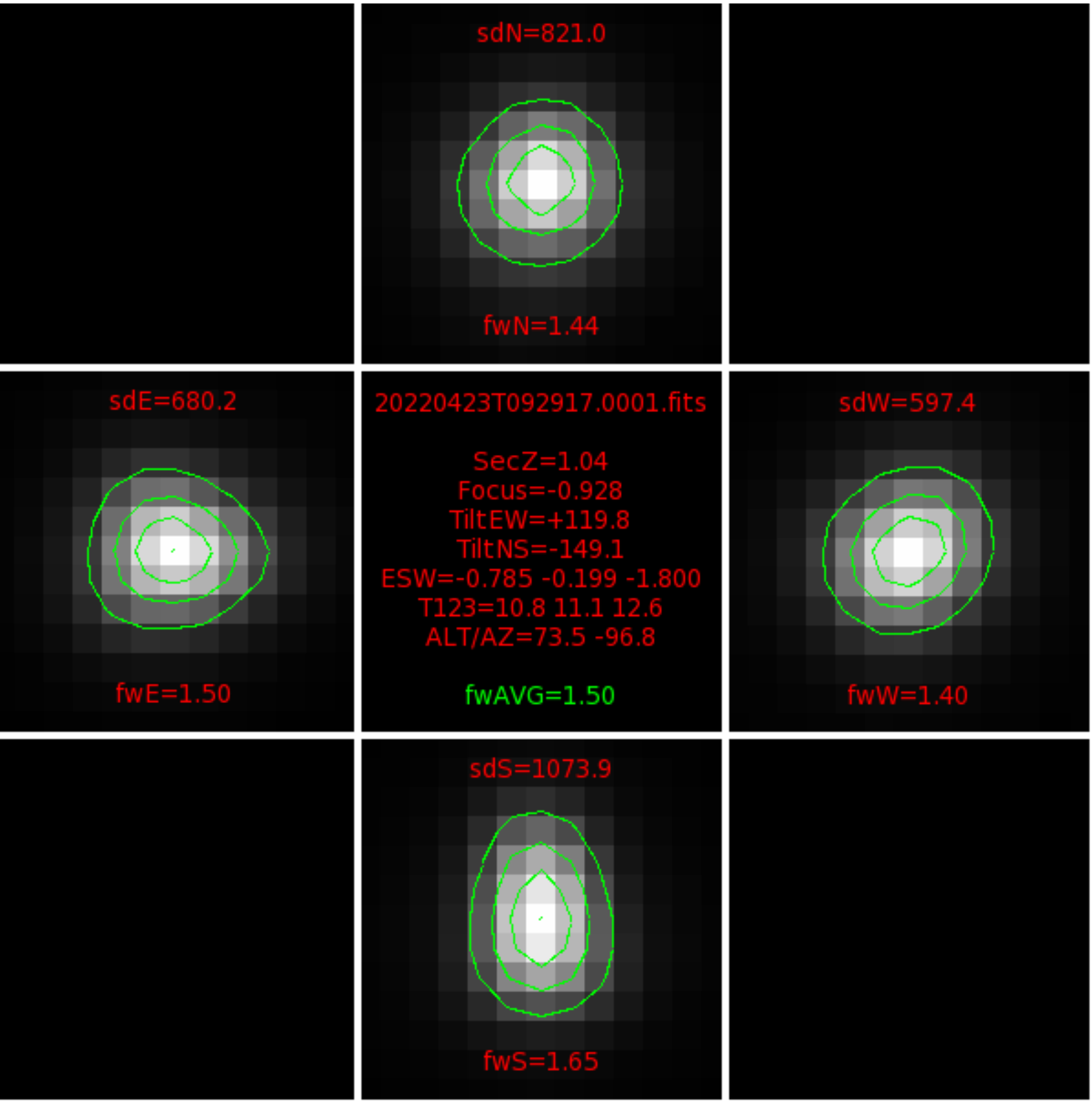
sdN=821.0
fwN=1.44
sdE=680.2
fwE=1.50
20220423T092917.0001.fits
SecZ=1.04
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.8 11.1 12.6
ALT/AZ=73.5 -96.8
fwAVG=1.50
sdW=597.4
fwW=1.40
sdS=1073.9
fwS=1.65
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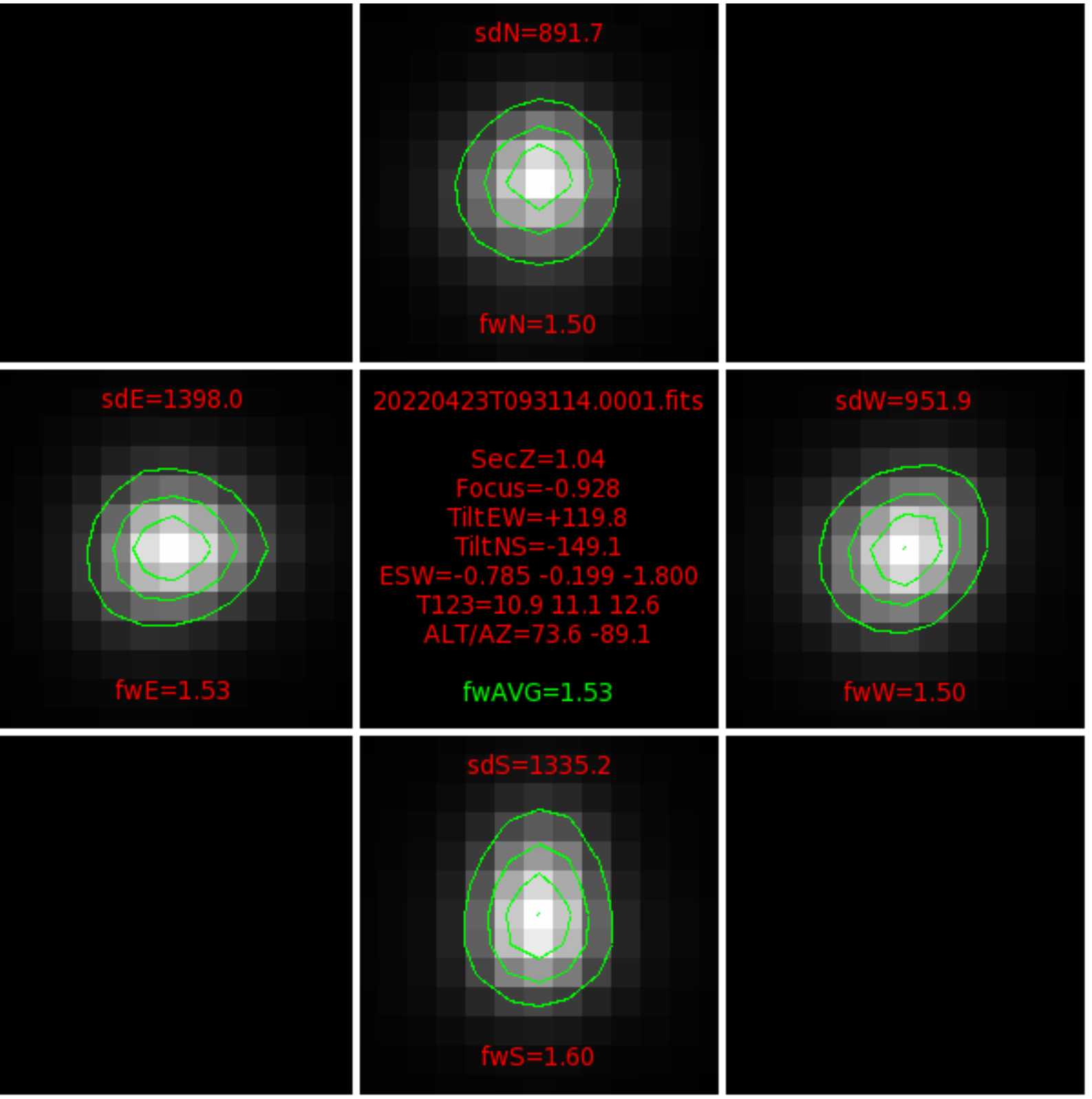
sdN=891.7
fwN=1.50
sdE=1398.0
fwE=1.53
20220423T093114.0001.fits
SecZ=1.04
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.9 11.1 12.6
ALT/AZ=73.6 -89.1
fwAVG=1.53
sdW=951.9
fwW=1.50
sdS=1335.2
fwS=1.60
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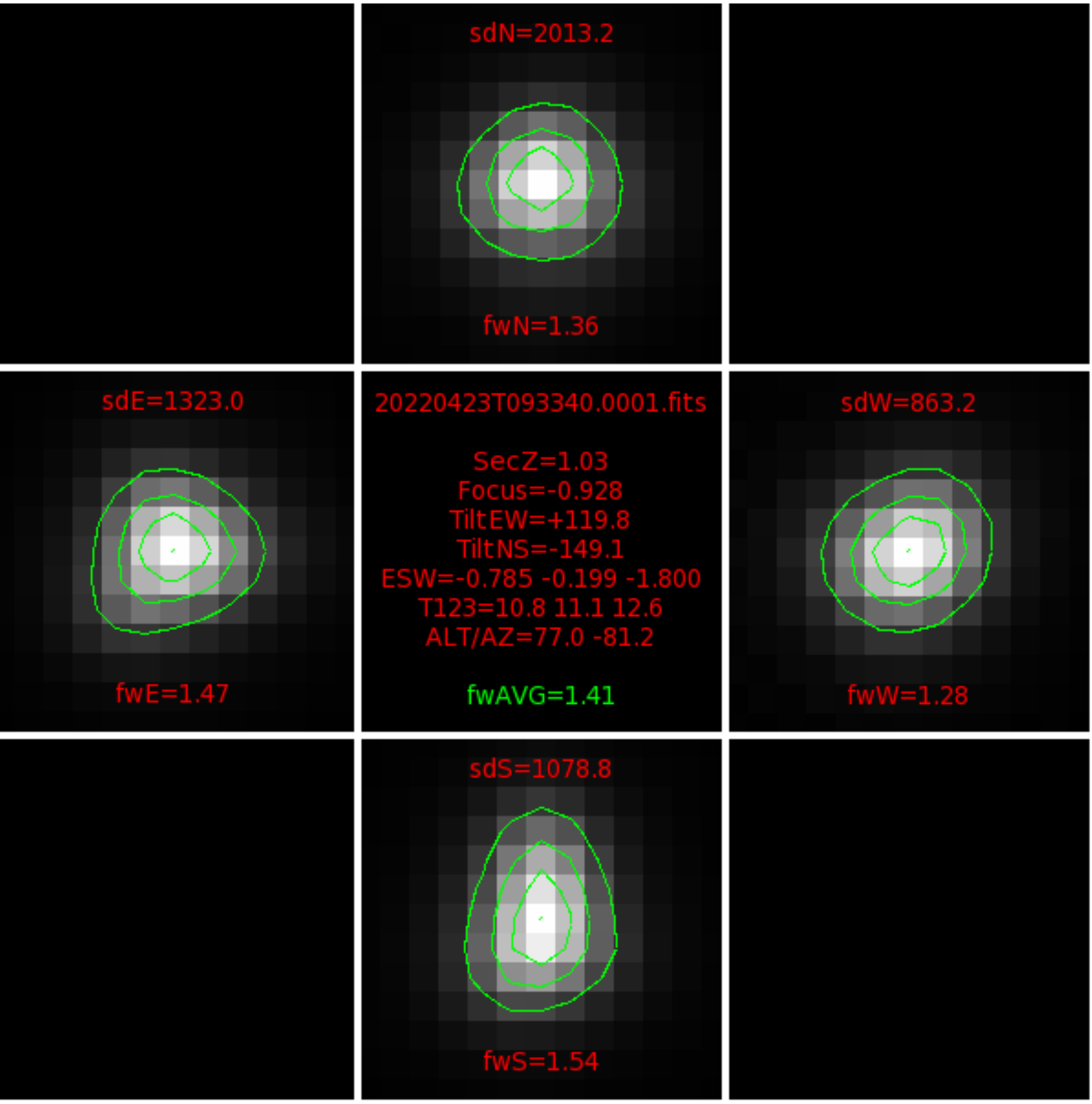
sdN=2013.2
fwN=1.36
sdE=1323.0
fwE=1.47
20220423T093340.0001.fits
SecZ=1.03
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.8 11.1 12.6
ALT/AZ=77.0 -81.2
fwAVG=1.41
sdW=863.2
fwW=1.28
sdS=1078.8
fwS=1.54
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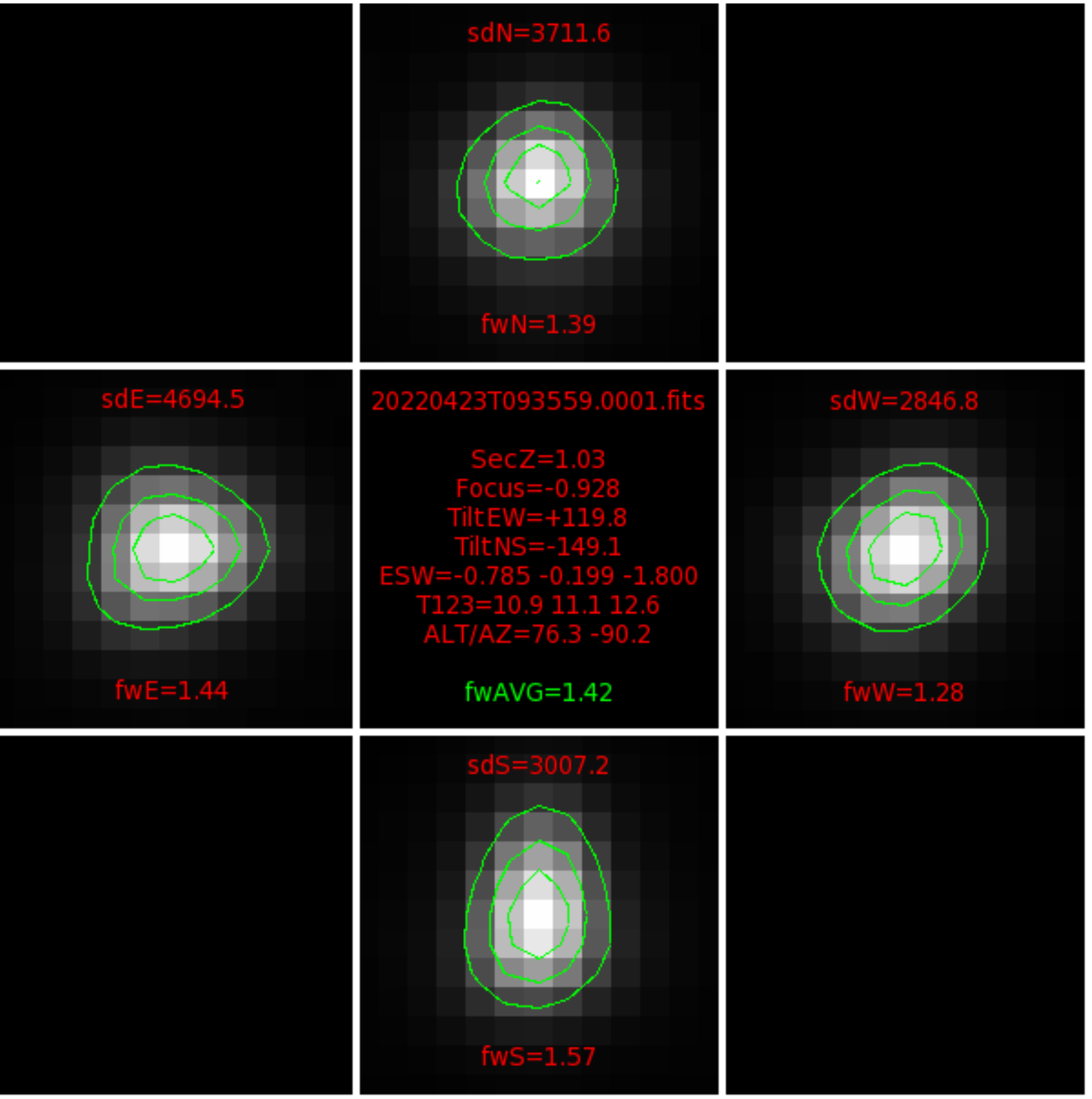
sdN=3711.6
fwN=1.39
sdE=4694.5
fwE=1.44
20220423T093559.0001.fits
SecZ=1.03
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.9 11.1 12.6
ALT/AZ=76.3 -90.2
fwAVG=1.42
sdW=2846.8
fwW=1.28
sdS=3007.2
fwS=1.57
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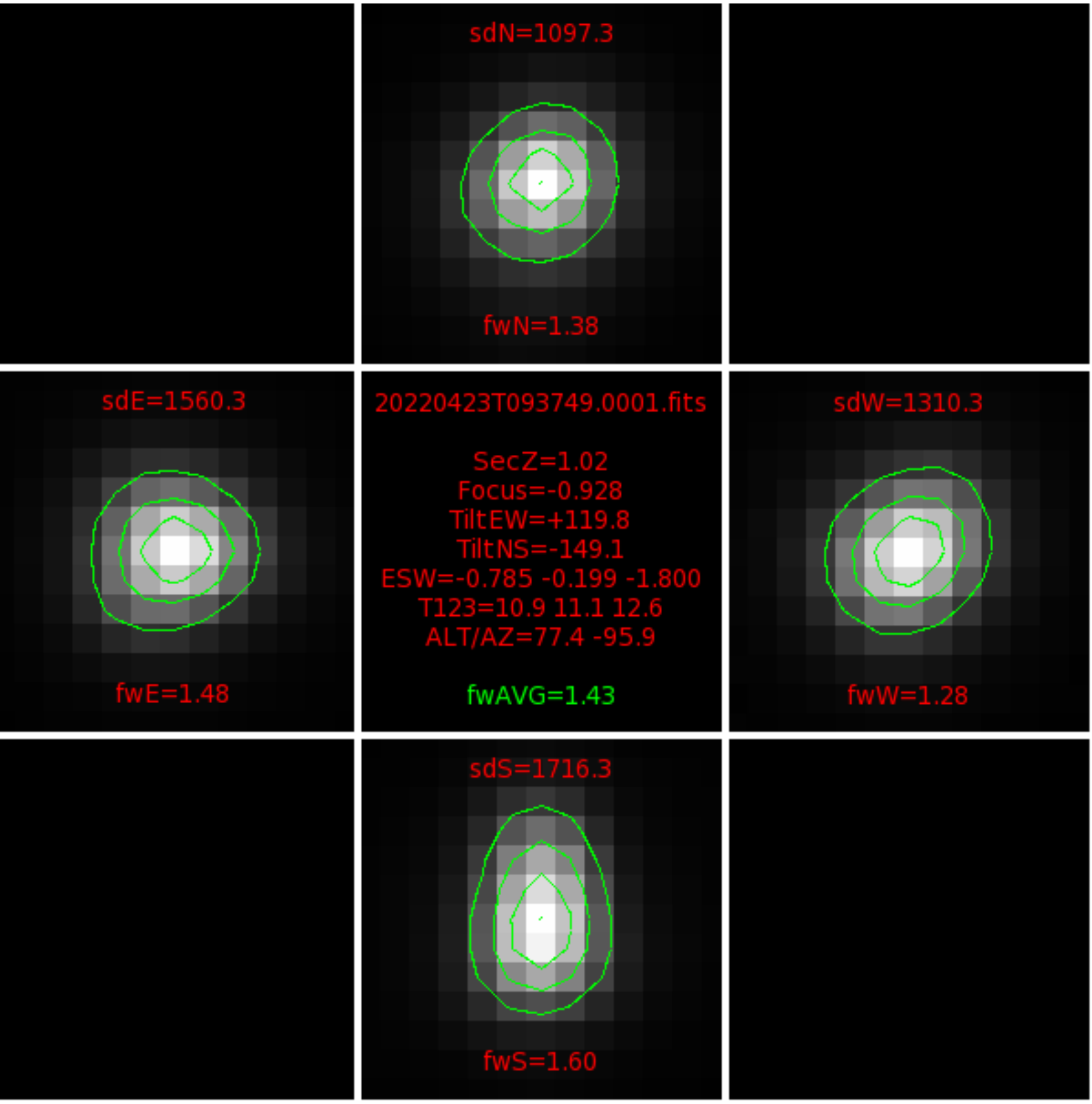
sdN=1097.3
fwN=1.38
sdE=1560.3
fwE=1.48
20220423T093749.0001.fits
SecZ=1.02
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.9 11.1 12.6
ALT/AZ=77.4 -95.9
fwAVG=1.43
sdW=1310.3
fwW=1.28
sdS=1716.3
fwS=1.60
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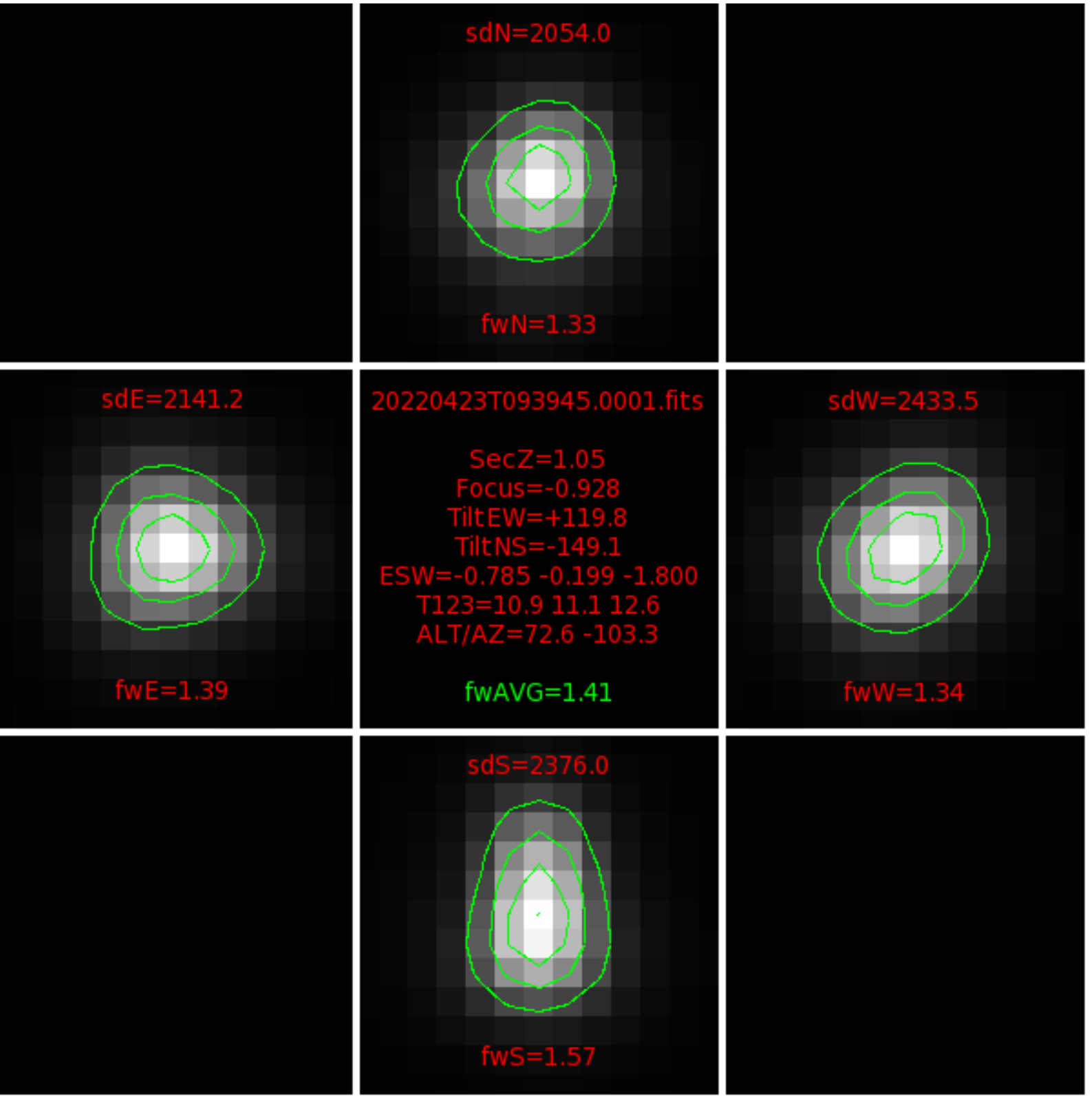
sdN=2054.0
fwN=1.33
sdE=2141.2
fwE=1.39
20220423T093945.0001.fits
SecZ=1.05
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.9 11.1 12.6
ALT/AZ=72.6 -103.3
fwAVG=1.41
sdW=2433.5
fwW=1.34
sdS=2376.0
fwS=1.57
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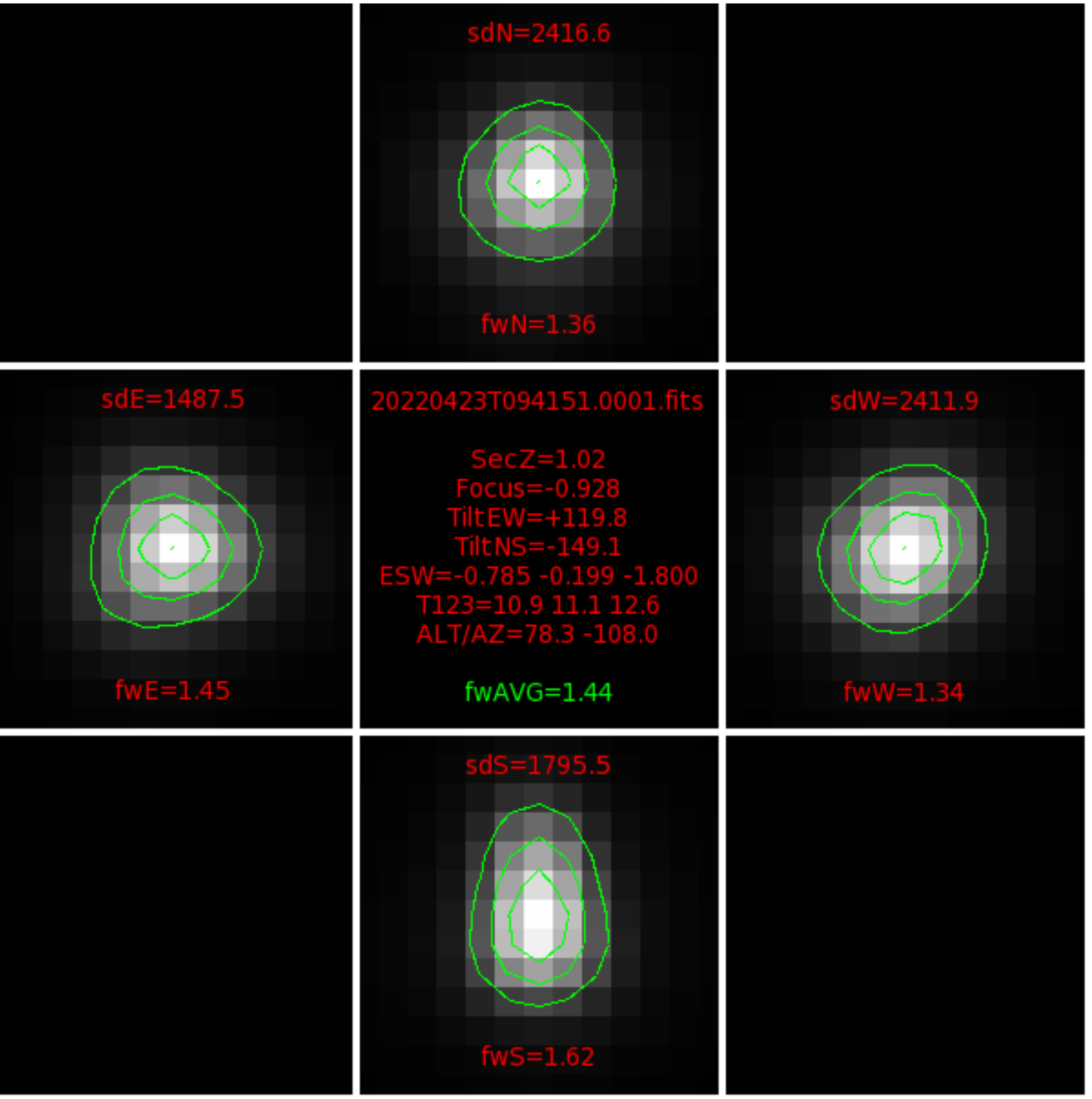
sdN=2416.6
fwN=1.36
sdE=1487.5
fwE=1.45
20220423T094151.0001.fits
SecZ=1.02
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.9 11.1 12.6
ALT/AZ=78.3 -108.0
fwAVG=1.44
sdW=2411.9
fwW=1.34
sdS=1795.5
fwS=1.62
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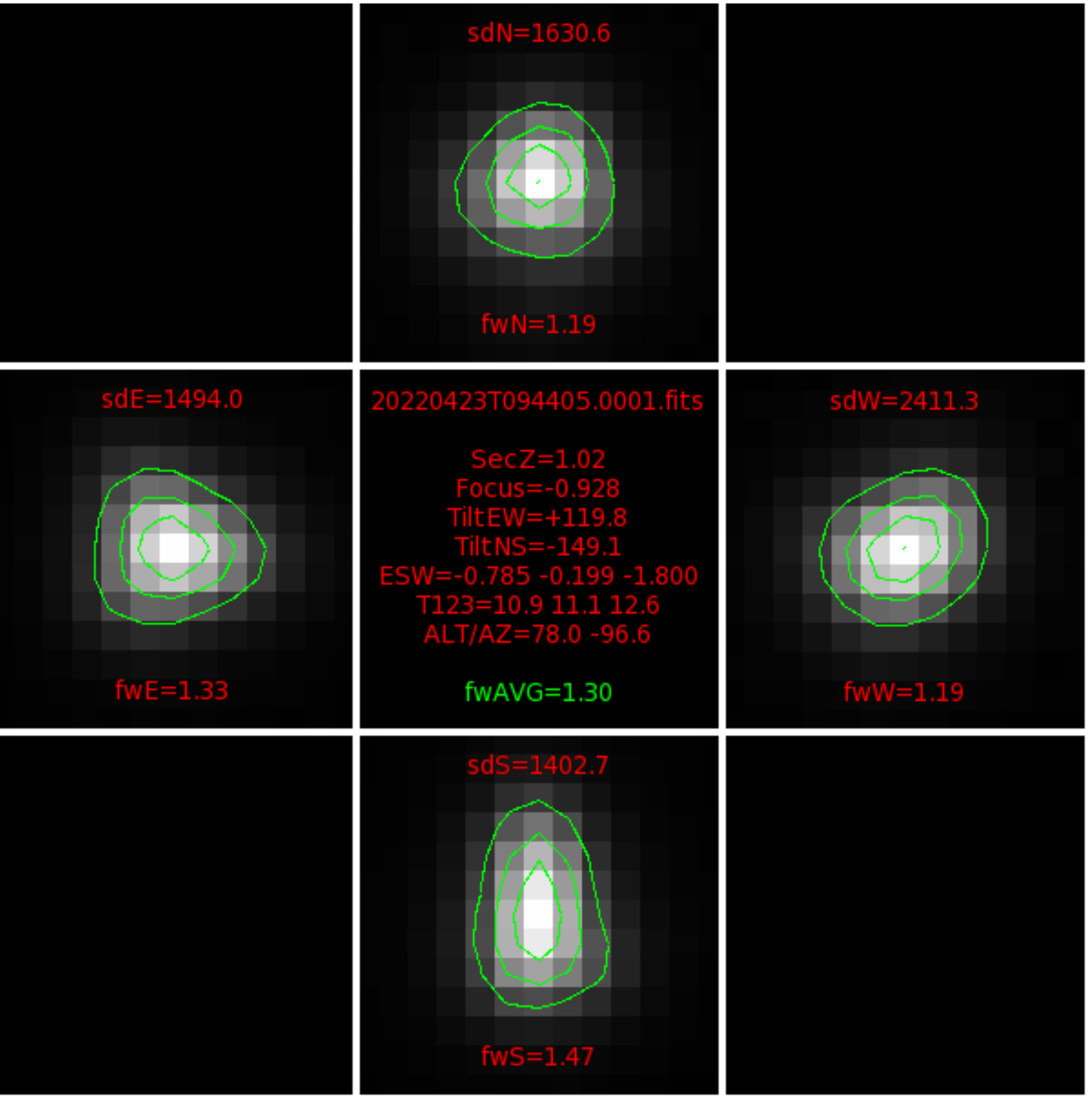
sdN=1630.6
fwN=1.19
sdE=1494.0
fwE=1.33
20220423T094405.0001.fits
SecZ=1.02
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.9 11.1 12.6
ALT/AZ=78.0 -96.6
fwAVG=1.30
sdW=2411.3
fwW=1.19
sdS=1402.7
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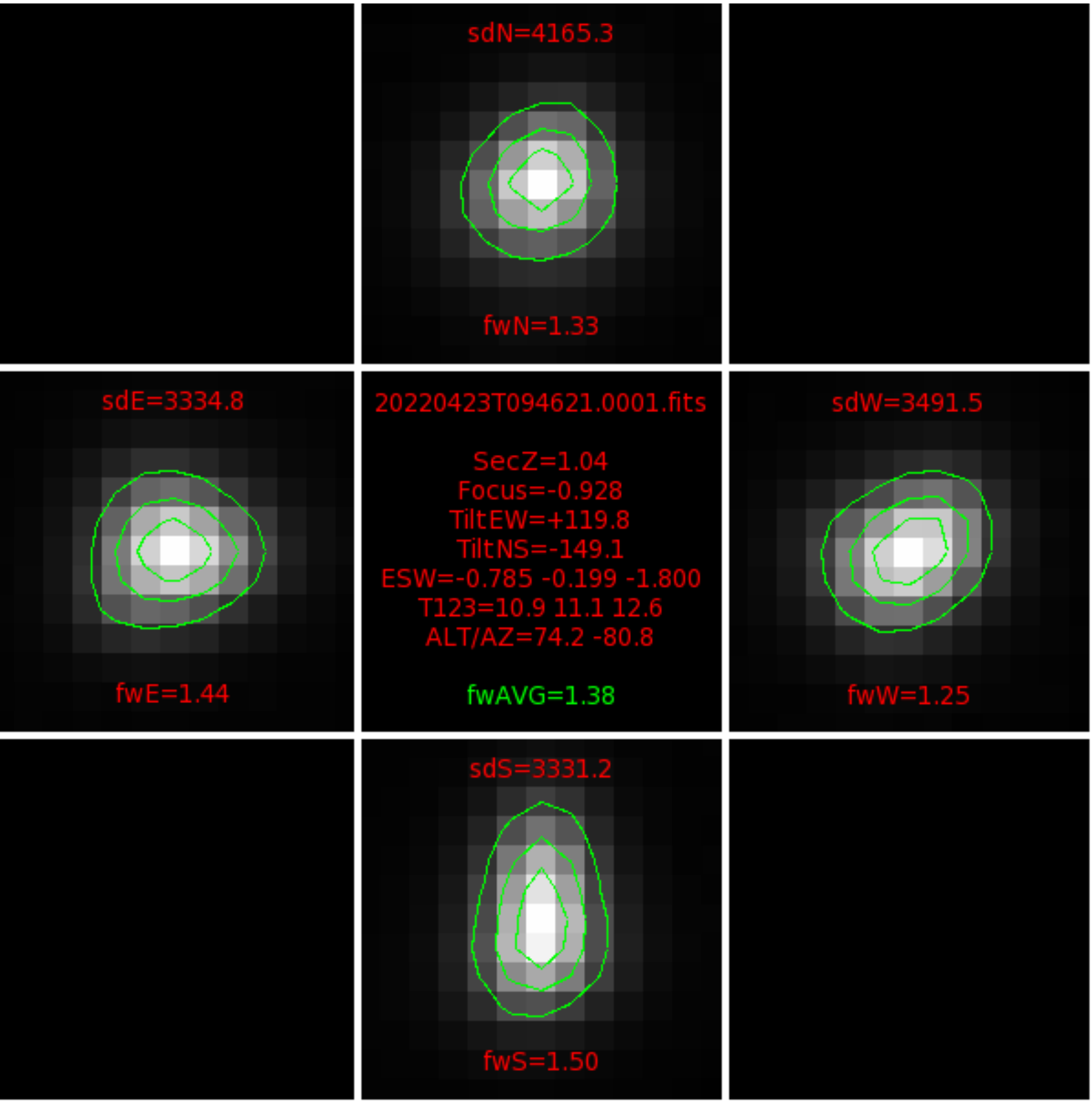
sdN=4165.3
fwN=1.33
sdE=3334.8
fwE=1.44
20220423T094621.0001.fits
SecZ=1.04
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.9 11.1 12.6
ALT/AZ=74.2 -80.8
fwAVG=1.38
sdW=3491.5
fwW=1.25
sdS=3331.2
fwS=1.50
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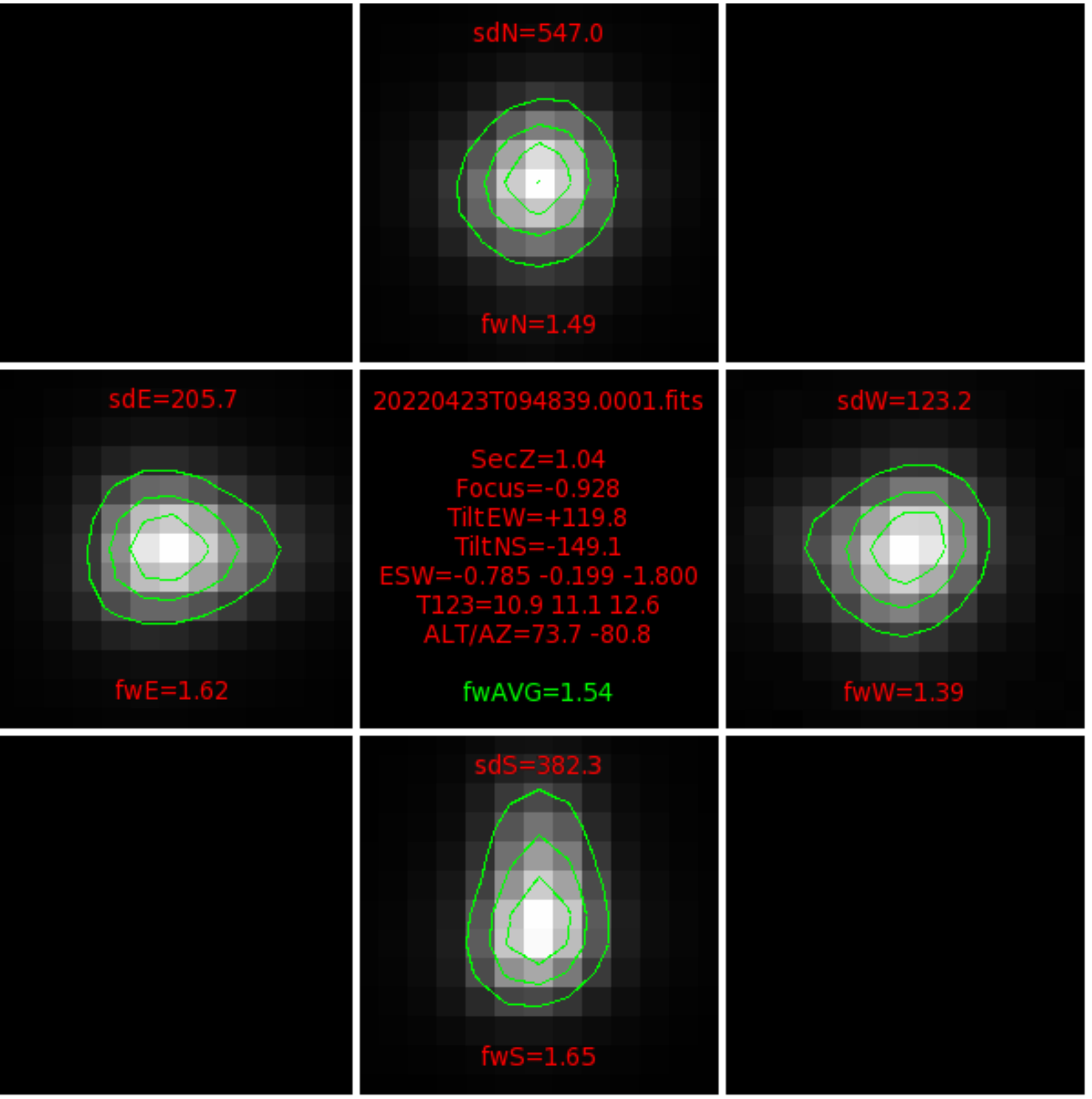
sdN=547.0
fwN=1.49
sdE=205.7
fwE=1.62
20220423T094839.0001.fits
SecZ=1.04
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.9 11.1 12.6
ALT/AZ=73.7 -80.8
fwAVG=1.54
sdW=123.2
fwW=1.39
sdS=382.3
fwS=1.65
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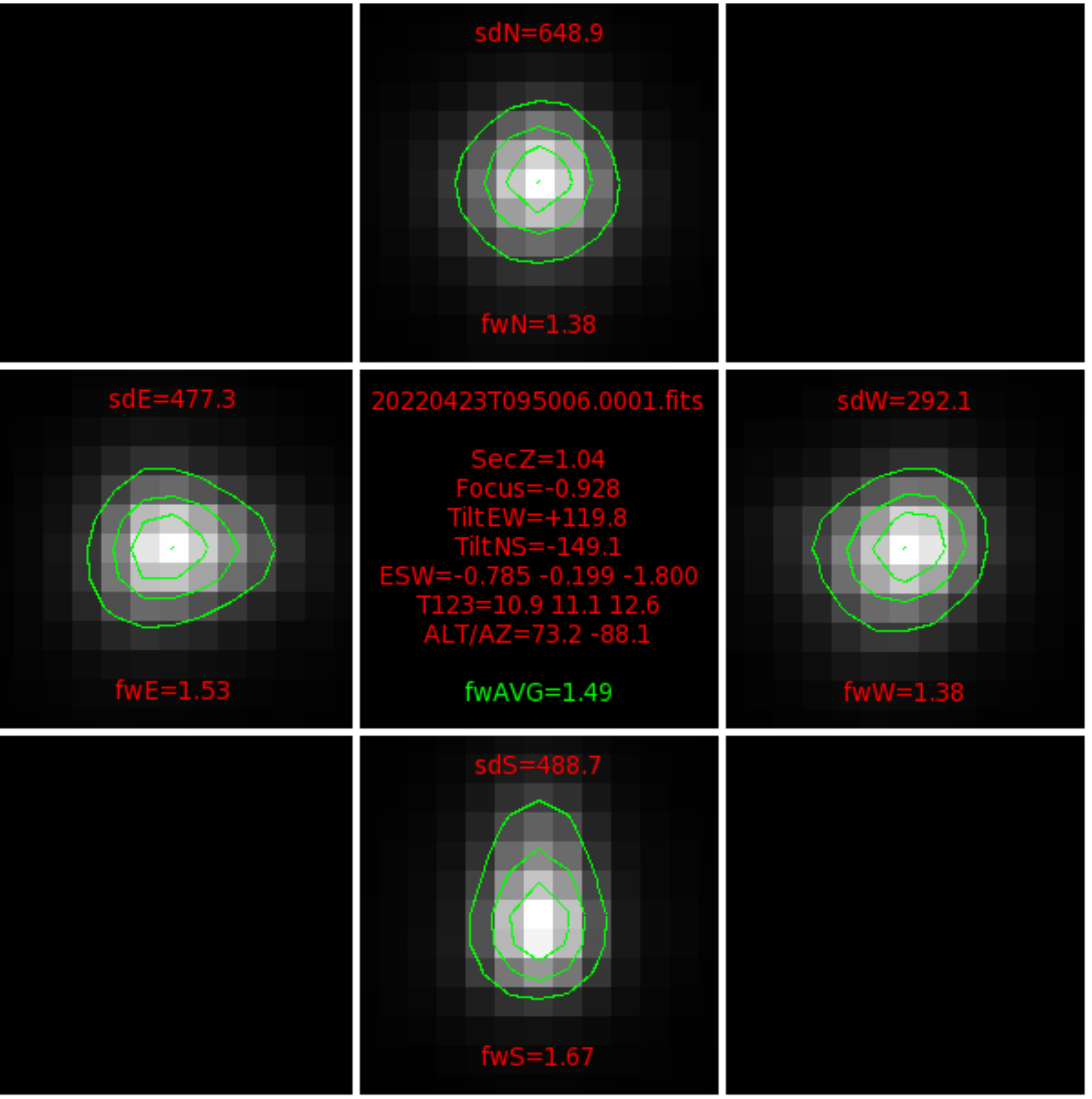
sdN=648.9
fwN=1.38
sdE=477.3
fwE=1.53
20220423T095006.0001.fits
SecZ=1.04
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.9 11.1 12.6
ALT/AZ=73.2 -88.1
fwAVG=1.49
sdW=292.1
fwW=1.38
sdS=488.7
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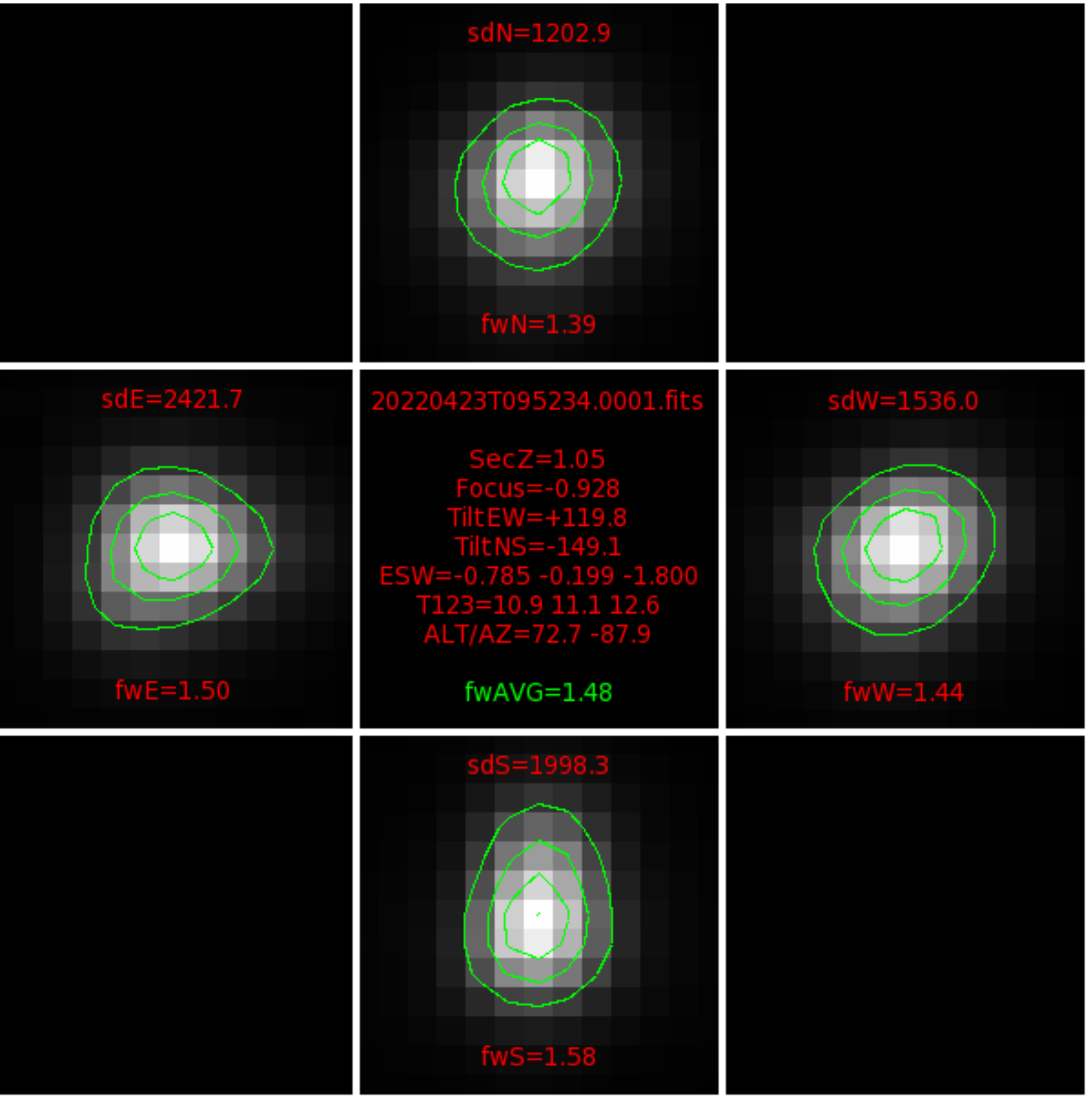
sdN=1202.9
fwN=1.39
sdE=2421.7
fwE=1.50
20220423T095234.0001.fits
SecZ=1.05
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.9 11.1 12.6
ALT/AZ=72.7 -87.9
fwAVG=1.48
sdW=1536.0
fwW=1.44
sdS=1998.3
fwS=1.58
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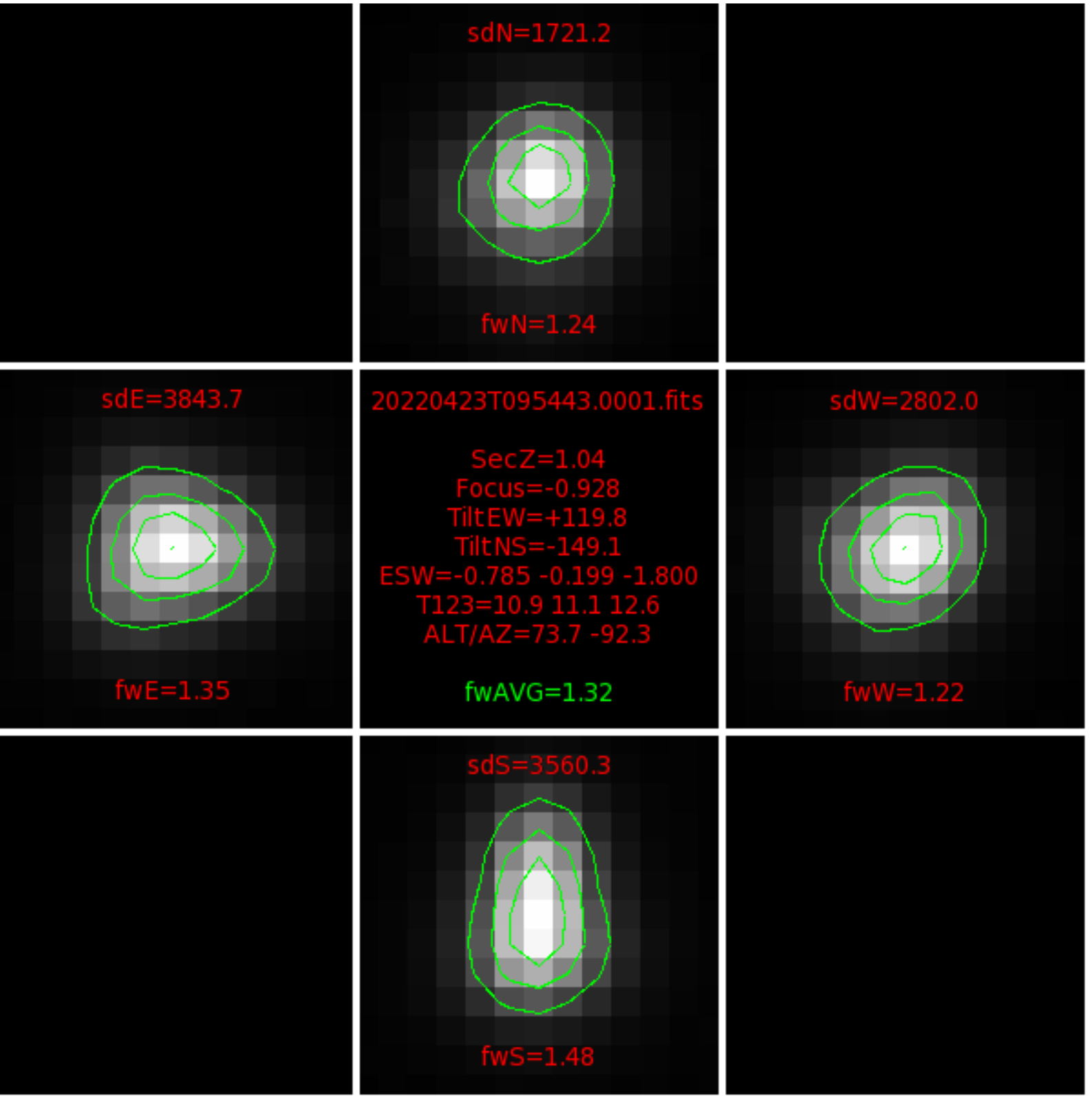
sdN=1721.2
fwN=1.24
sdE=3843.7
fwE=1.35
20220423T095443.0001.fits
SecZ=1.04
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.9 11.1 12.6
ALT/AZ=73.7 -92.3
fwAVG=1.32
sdW=2802.0
fwW=1.22
sdS=3560.3
fwS=1.48
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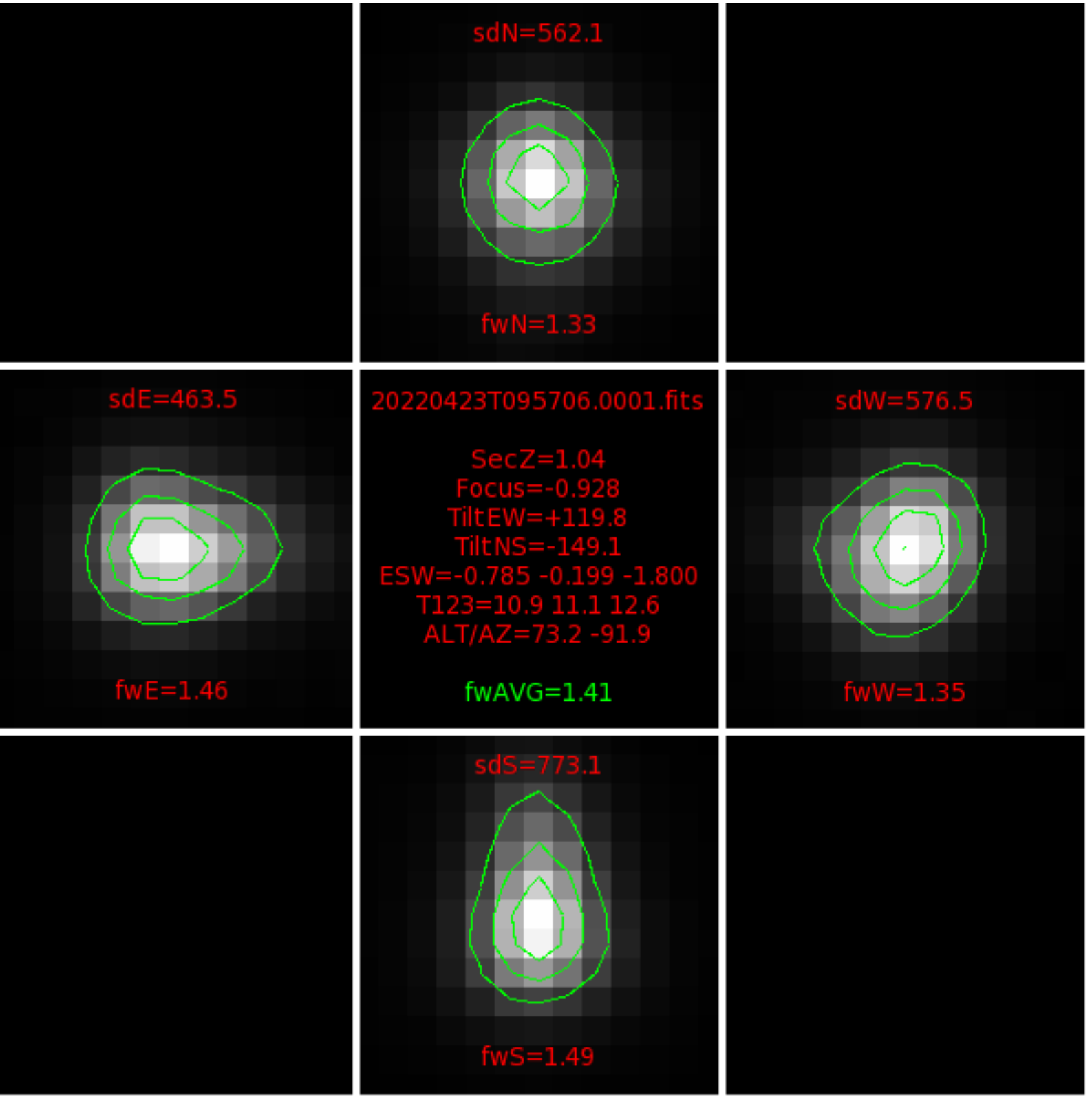
sdN=562.1
fwN=1.33
sdE=463.5
fwE=1.46
20220423T095706.0001.fits
SecZ=1.04
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.9 11.1 12.6
ALT/AZ=73.2 -91.9
fwAVG=1.41
sdW=576.5
fwW=1.35
sdS=773.1
fwS=1.49
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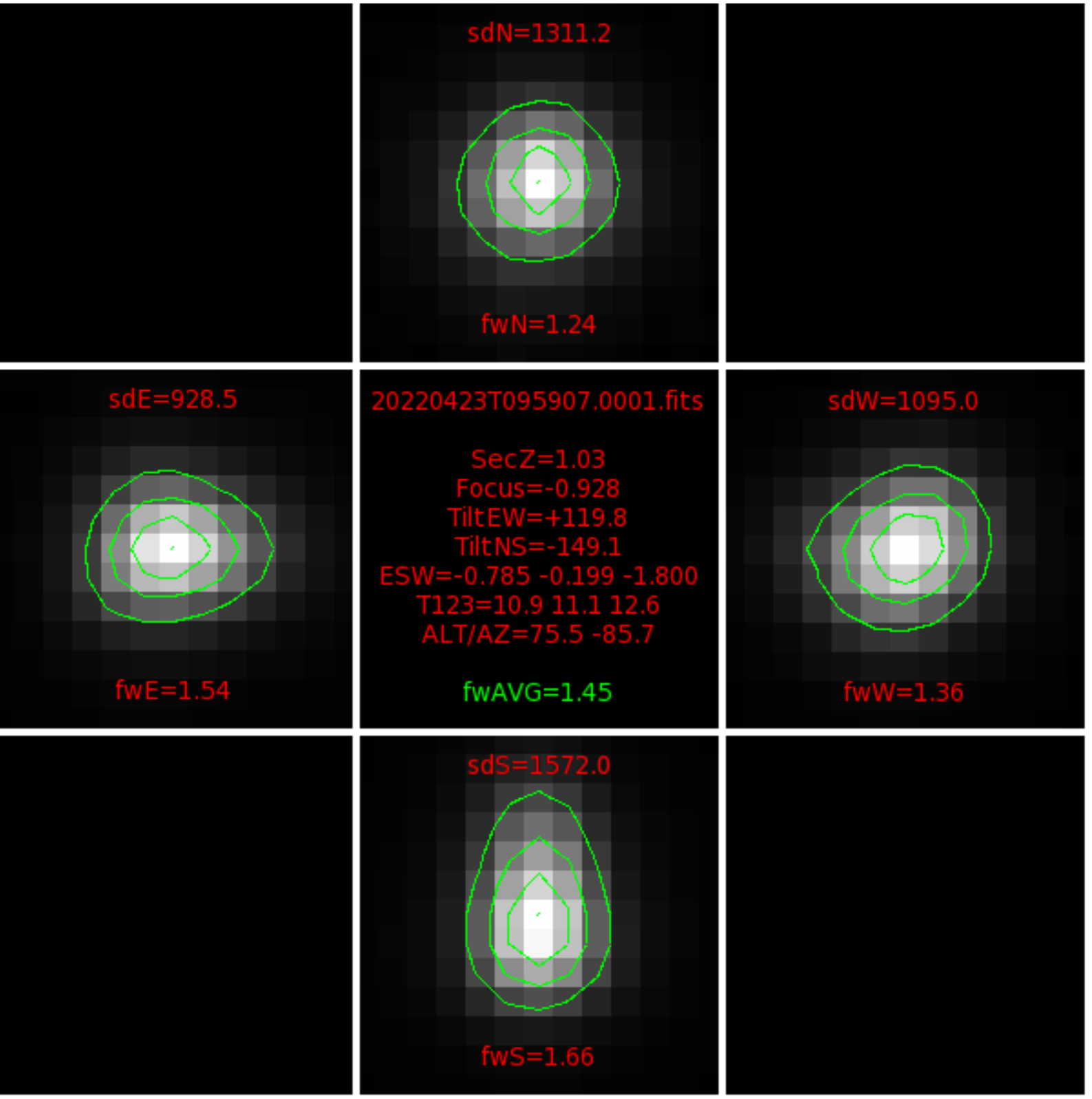
sdN=1311.2
fwN=1.24
sdE=928.5
fwE=1.54
20220423T095907.0001.fits
SecZ=1.03
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.9 11.1 12.6
ALT/AZ=75.5 -85.7
fwAVG=1.45
sdW=1095.0
fwW=1.36
sdS=1572.0
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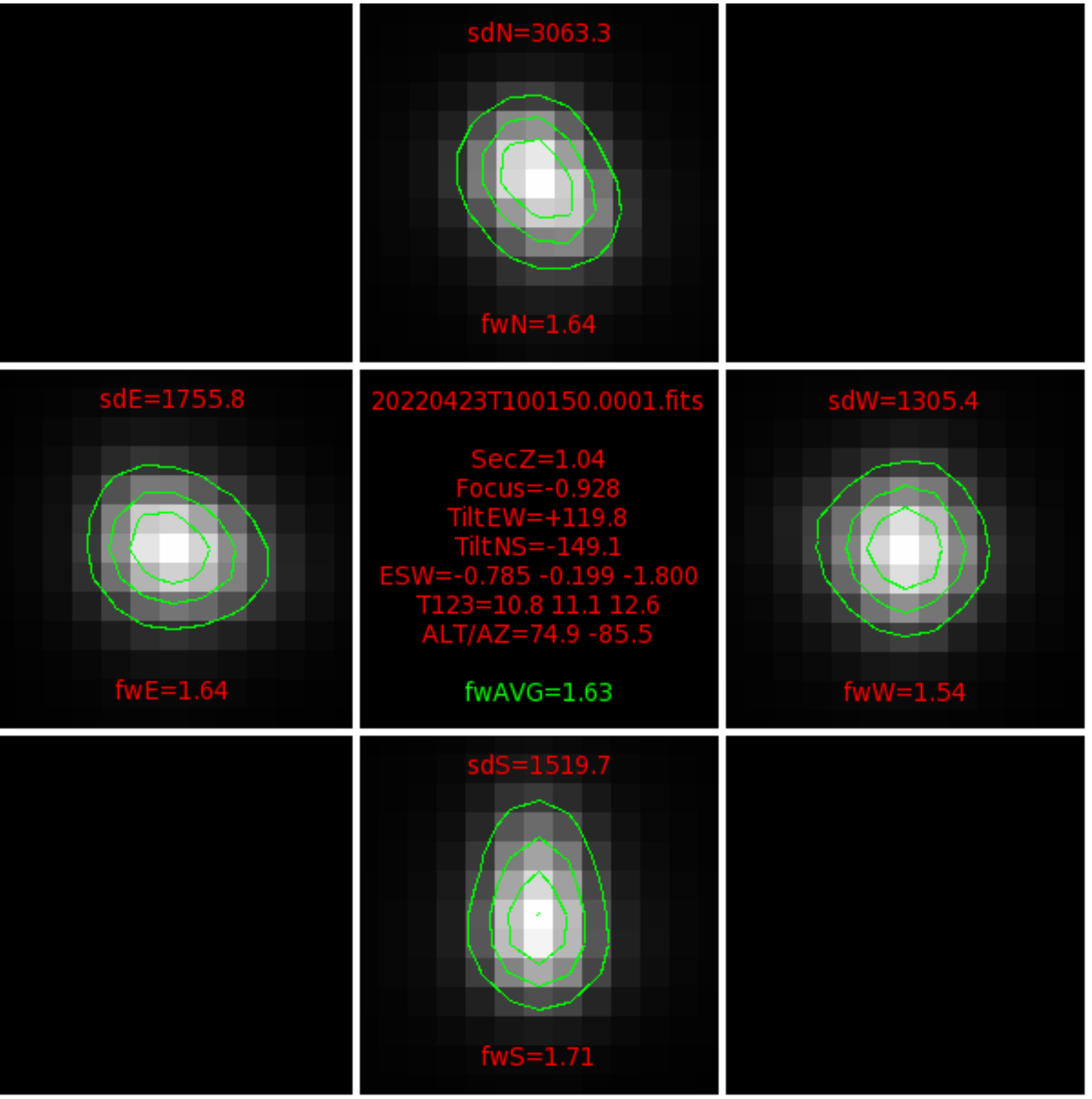
sdN=3063.3
fwN=1.64
sdE=1755.8
fwE=1.64
20220423T100150.0001.fits
SecZ=1.04
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.8 11.1 12.6
ALT/AZ=74.9 -85.5
fwAVG=1.63
sdW=1305.4
fwW=1.54
sdS=1519.7
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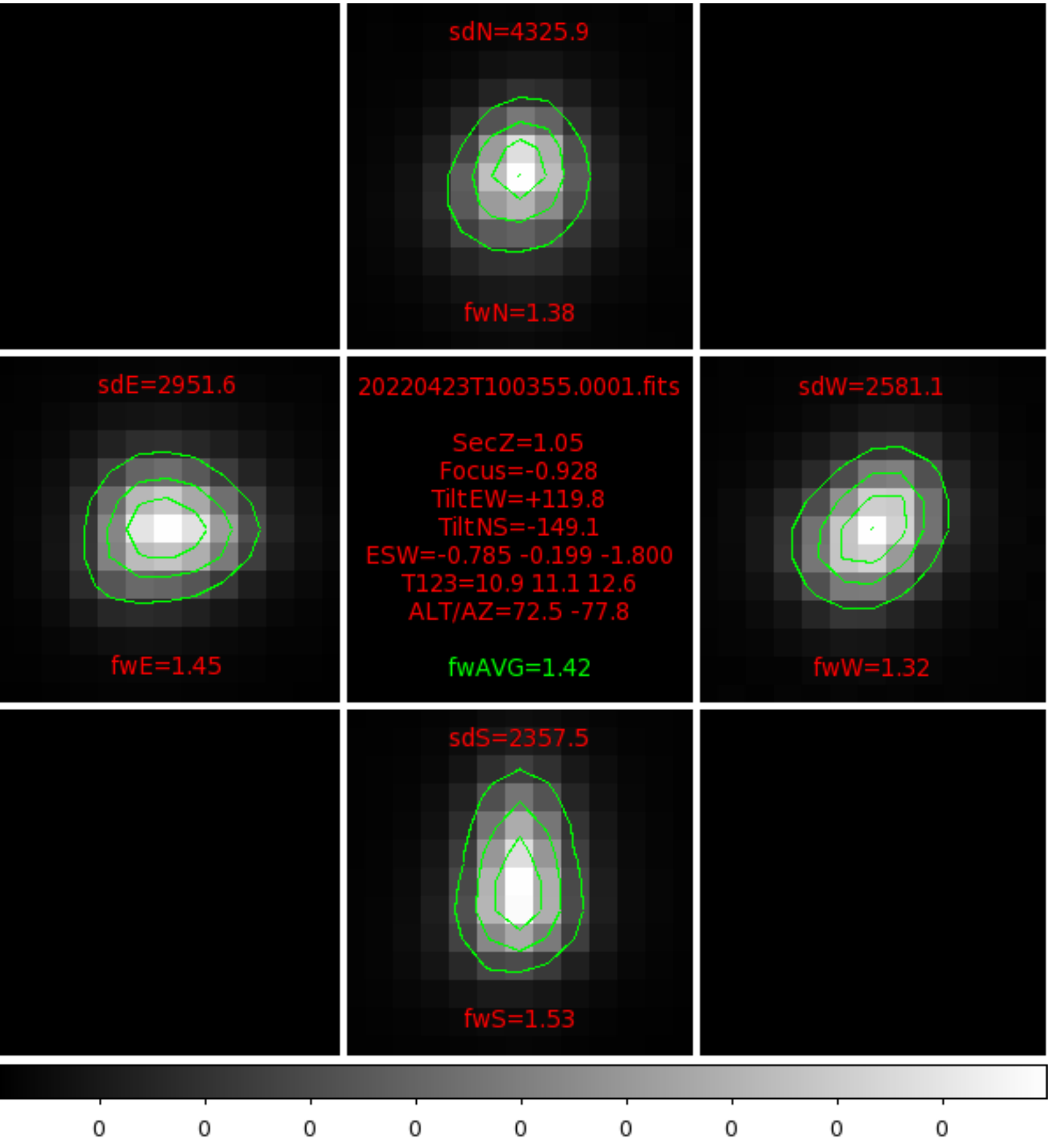
sdN=4325.9
fwN=1.38
sdE=2951.6
fwE=1.45
20220423T100355.0001.fits
SecZ=1.05
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.9 11.1 12.6
ALT/AZ=72.5 -77.8
fwAVG=1.42
sdW=2581.1
fwW=1.32
sdS=2357.5
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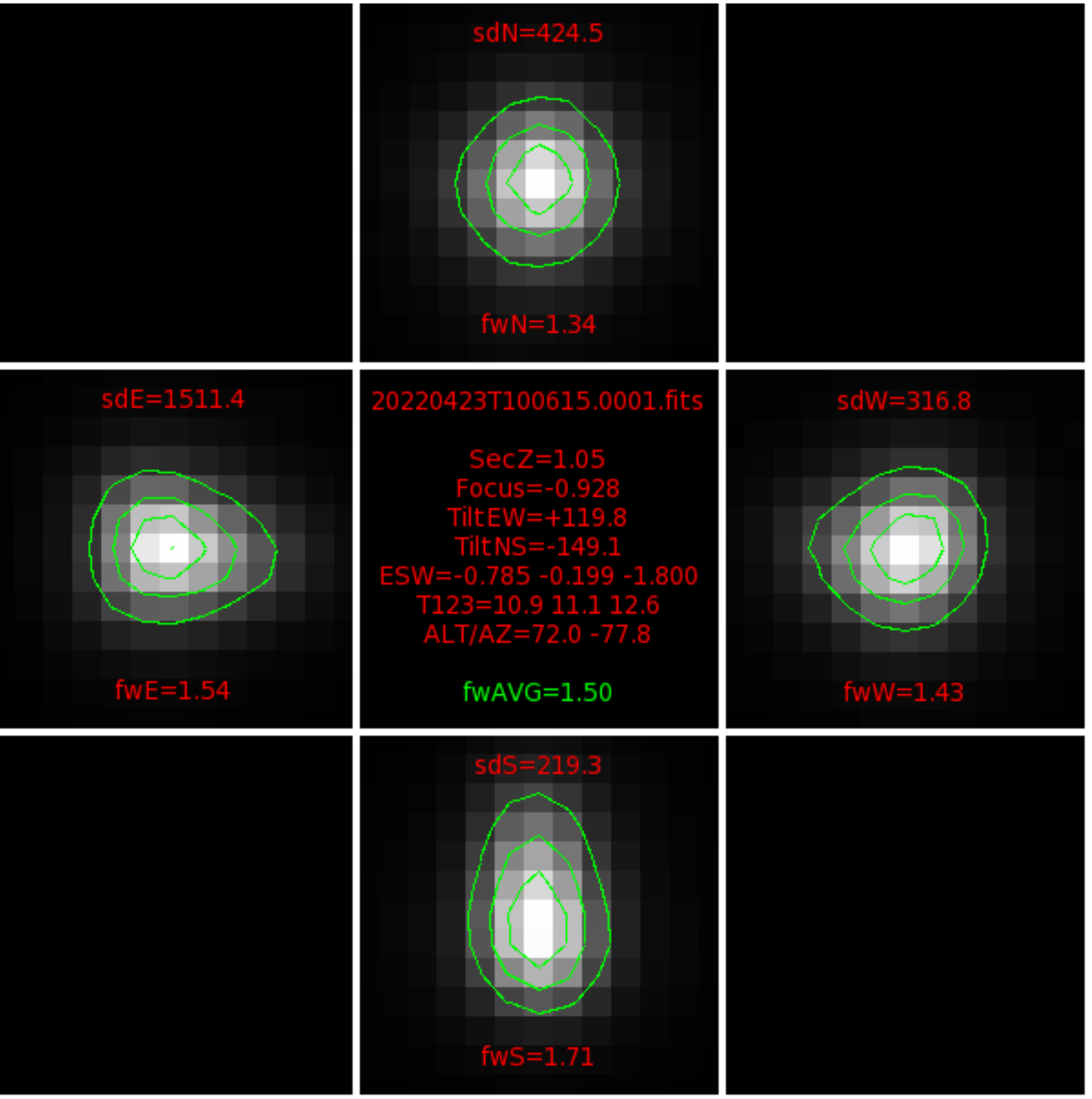
sdN=424.5
fwN=1.34
sdE=1511.4
fwE=1.54
20220423T100615.0001.fits
SecZ=1.05
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.9 11.1 12.6
ALT/AZ=72.0 -77.8
fwAVG=1.50
sdW=316.8
fwW=1.43
sdS=219.3
fwS=1.71
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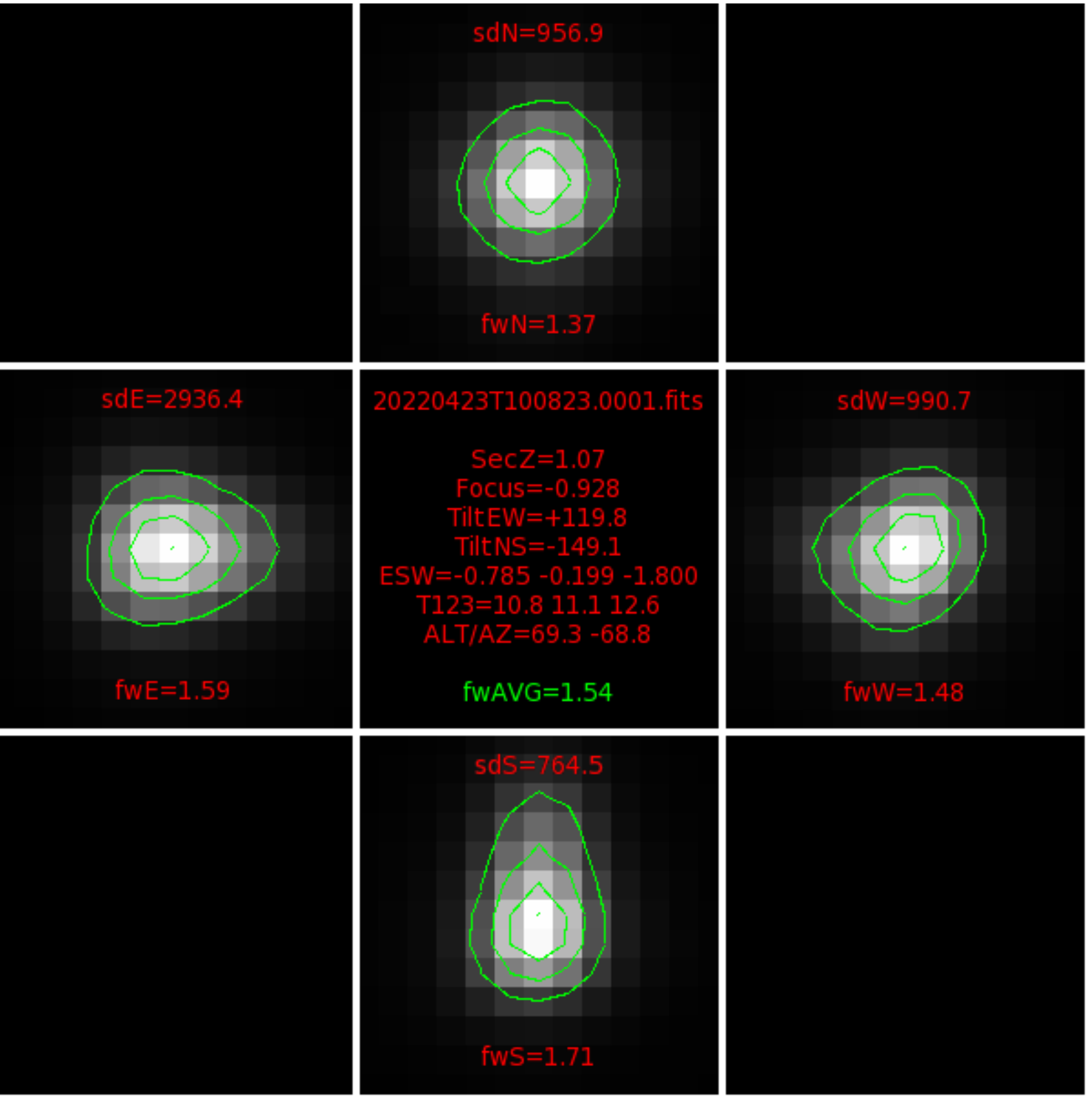
sdN=956.9
fwN=1.37
sdE=2936.4
fwE=1.59
20220423T100823.0001.fits
SecZ=1.07
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.8 11.1 12.6
ALT/AZ=69.3 -68.8
fwAVG=1.54
sdW=990.7
fwW=1.48
sdS=764.5
fwS=1.71
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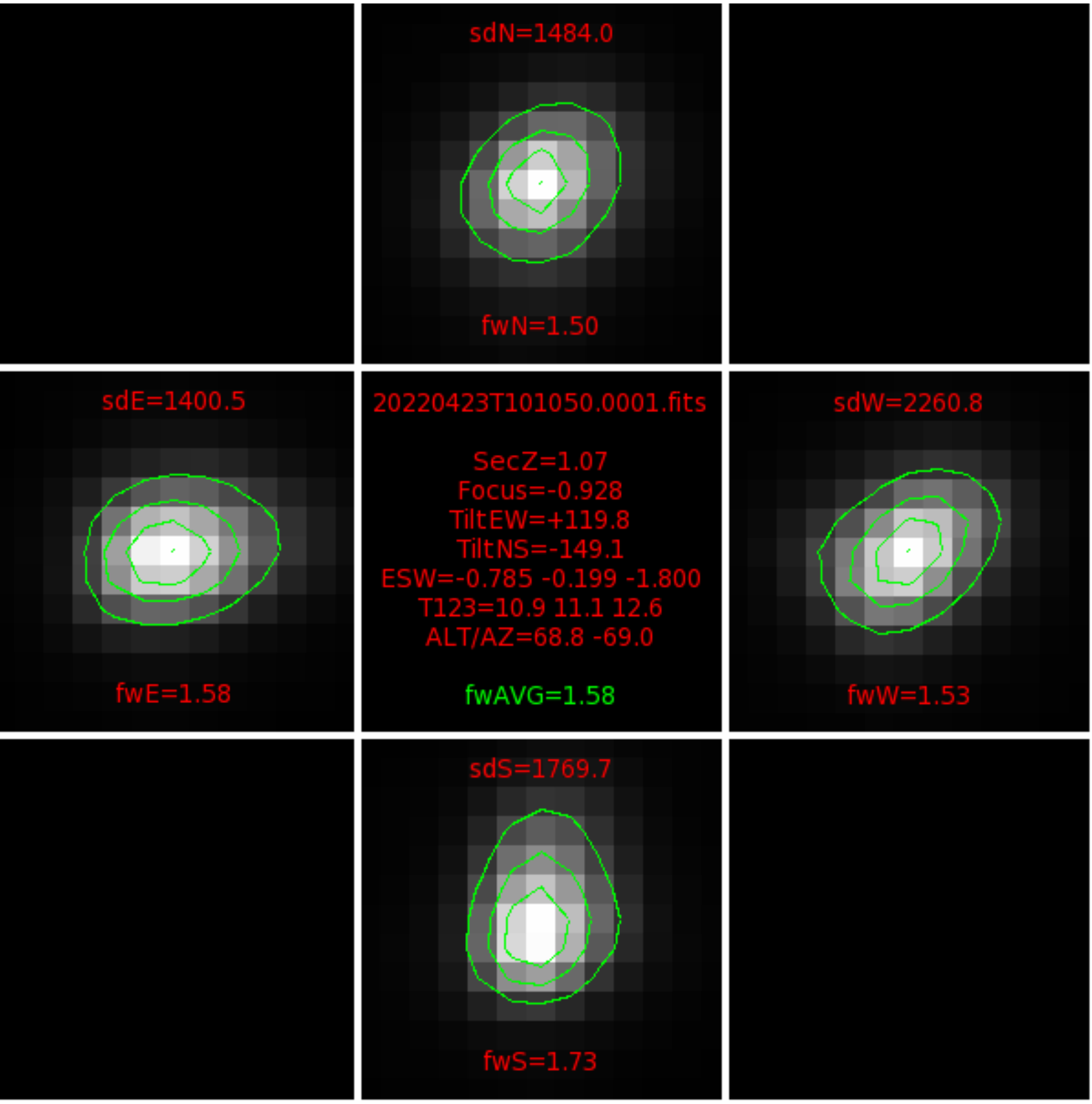
sdN=1484.0
fwN=1.50
sdE=1400.5
fwE=1.58
20220423T101050.0001.fits
SecZ=1.07
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.9 11.1 12.6
ALT/AZ=68.8 -69.0
fwAVG=1.58
sdW=2260.8
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sdS=1769.7
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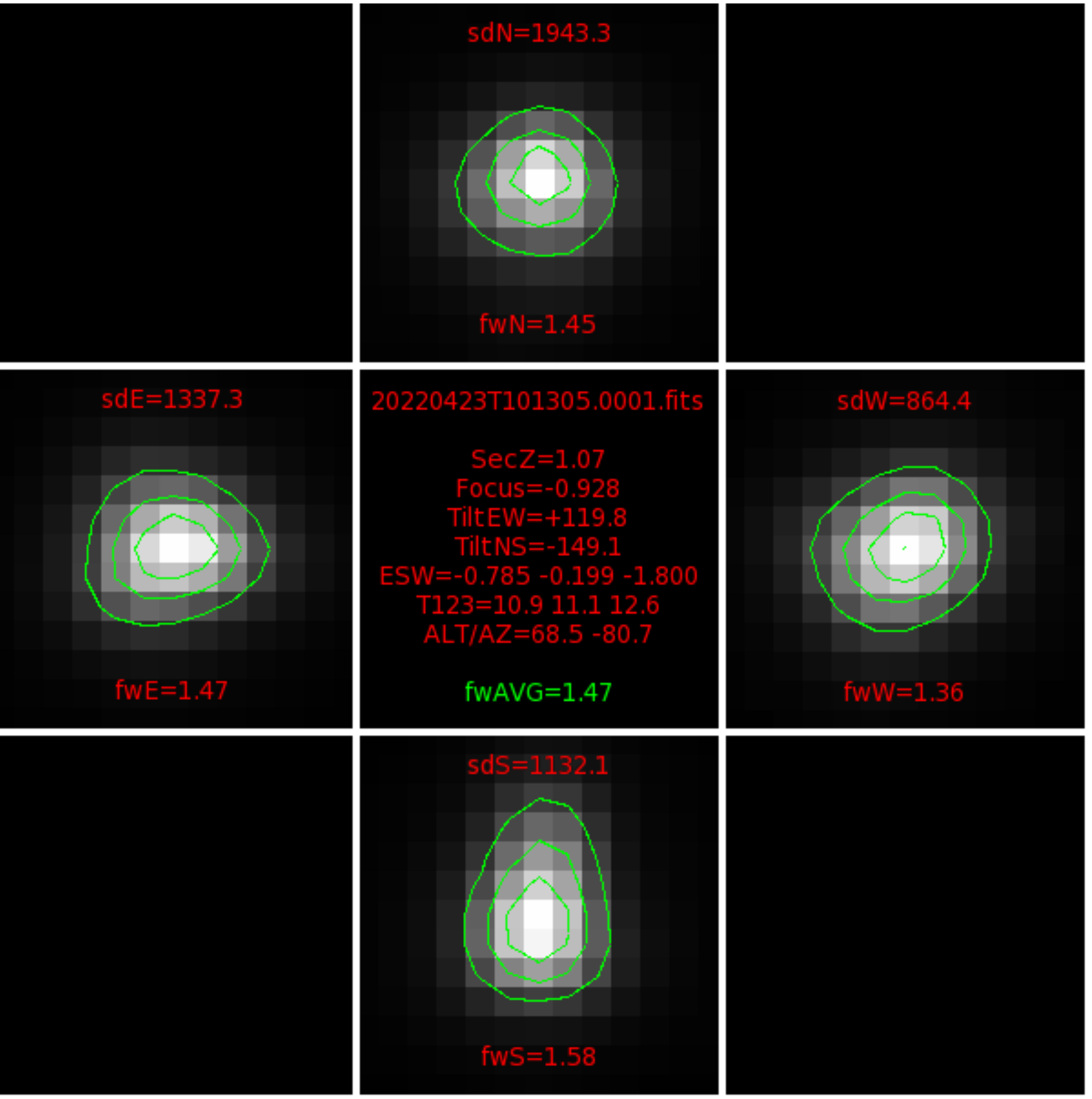
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sdE=1337.3
fwE=1.47
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SecZ=1.07
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.9 11.1 12.6
ALT/AZ=68.5 -80.7
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sdW=864.4
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sdS=1132.1
fwS=1.58
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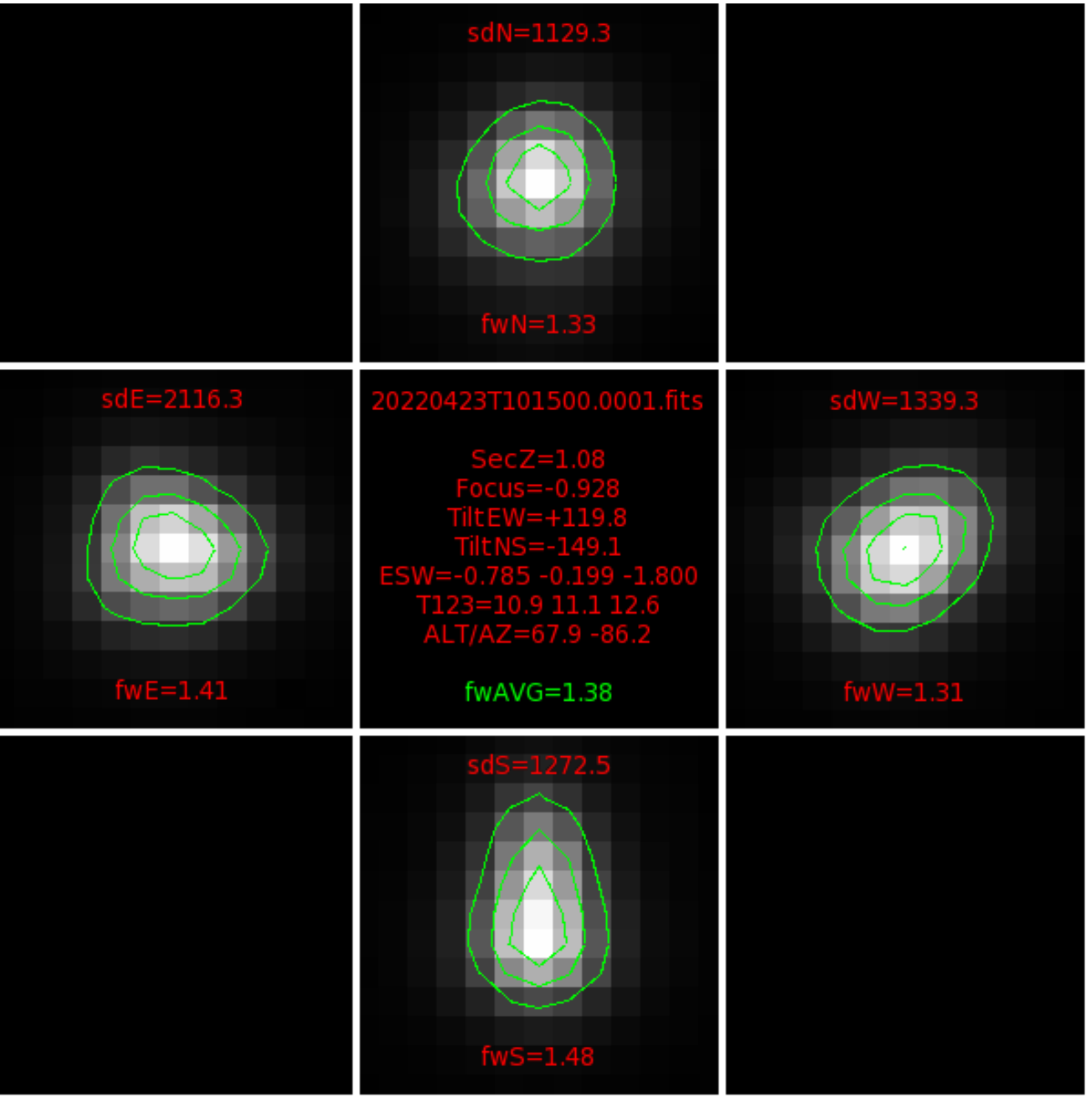
sdN=1129.3
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sdE=2116.3
fwE=1.41
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SecZ=1.08
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.9 11.1 12.6
ALT/AZ=67.9 -86.2
fwAVG=1.38
sdW=1339.3
fwW=1.31
sdS=1272.5
fwS=1.48
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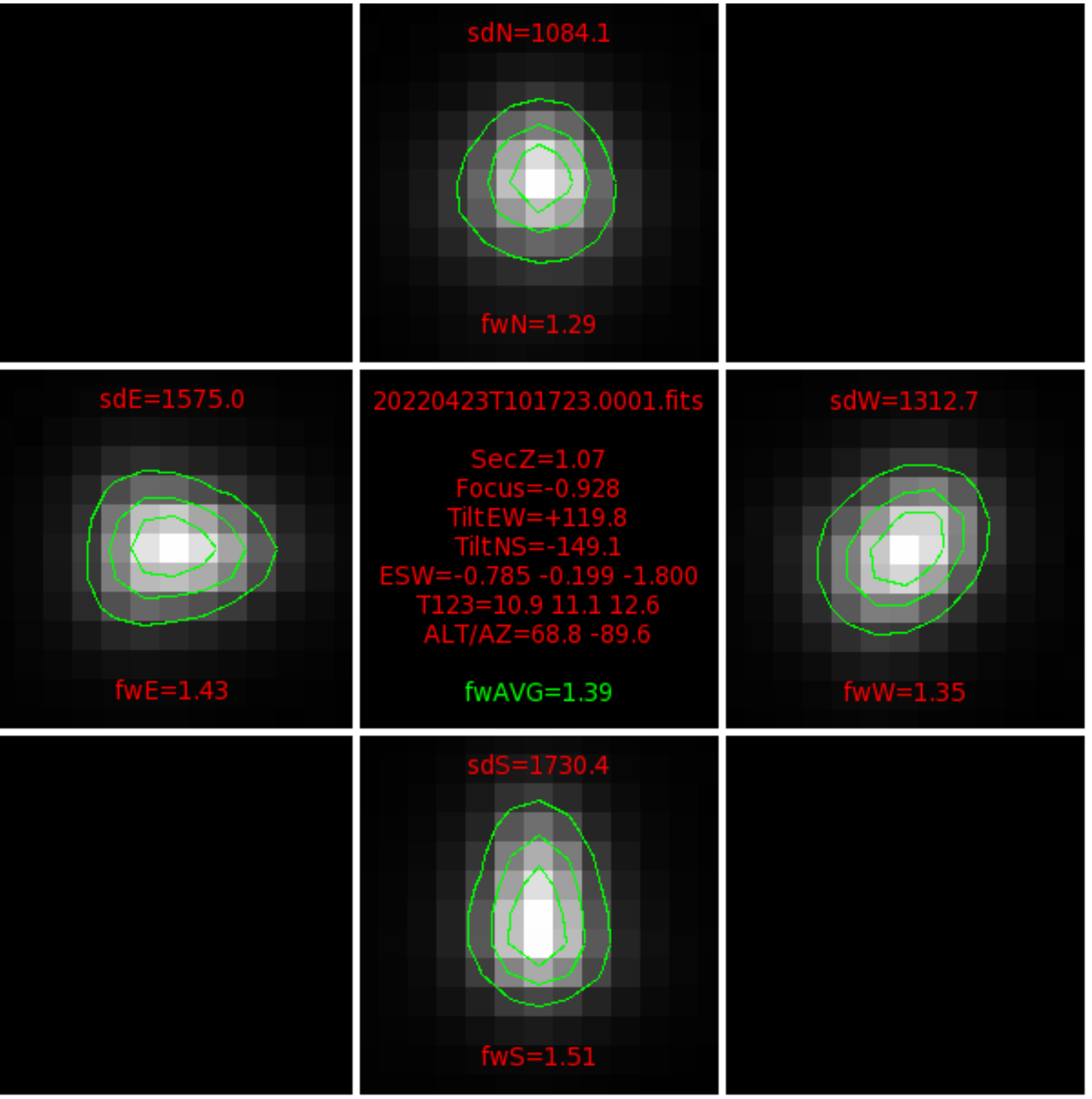
sdN=1084.1
fwN=1.29
sdE=1575.0
fwE=1.43
20220423T101723.0001.fits
SecZ=1.07
Focus=-0.928
TiltEW=+119.8
TiltNS=-149.1
ESW=-0.785 -0.199 -1.800
T123=10.9 11.1 12.6
ALT/AZ=68.8 -89.6
fwAVG=1.39
sdW=1312.7
fwW=1.35
sdS=1730.4
fwS=1.51
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