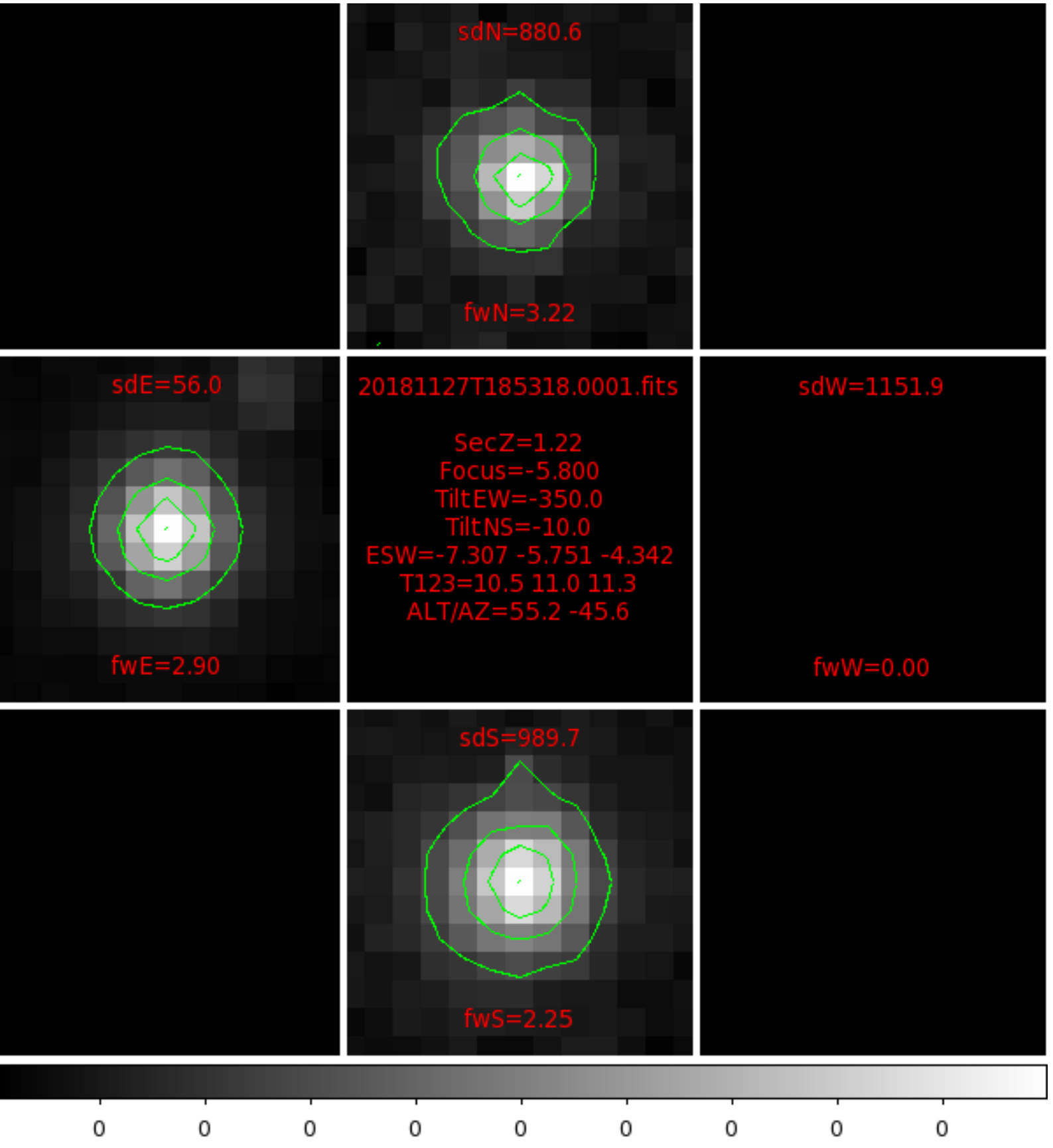
sdN=880.6
fwN=3.22
sdE=56.0
fwE=2.90
20181127T185318.0001.fits
SecZ=1.22
Focus=-5.800
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.307 -5.751 -4.342
T123=10.5 11.0 11.3
ALT/AZ=55.2 -45.6
sdW=1151.9
fwW=0.00
sdS=989.7
fwS=2.25
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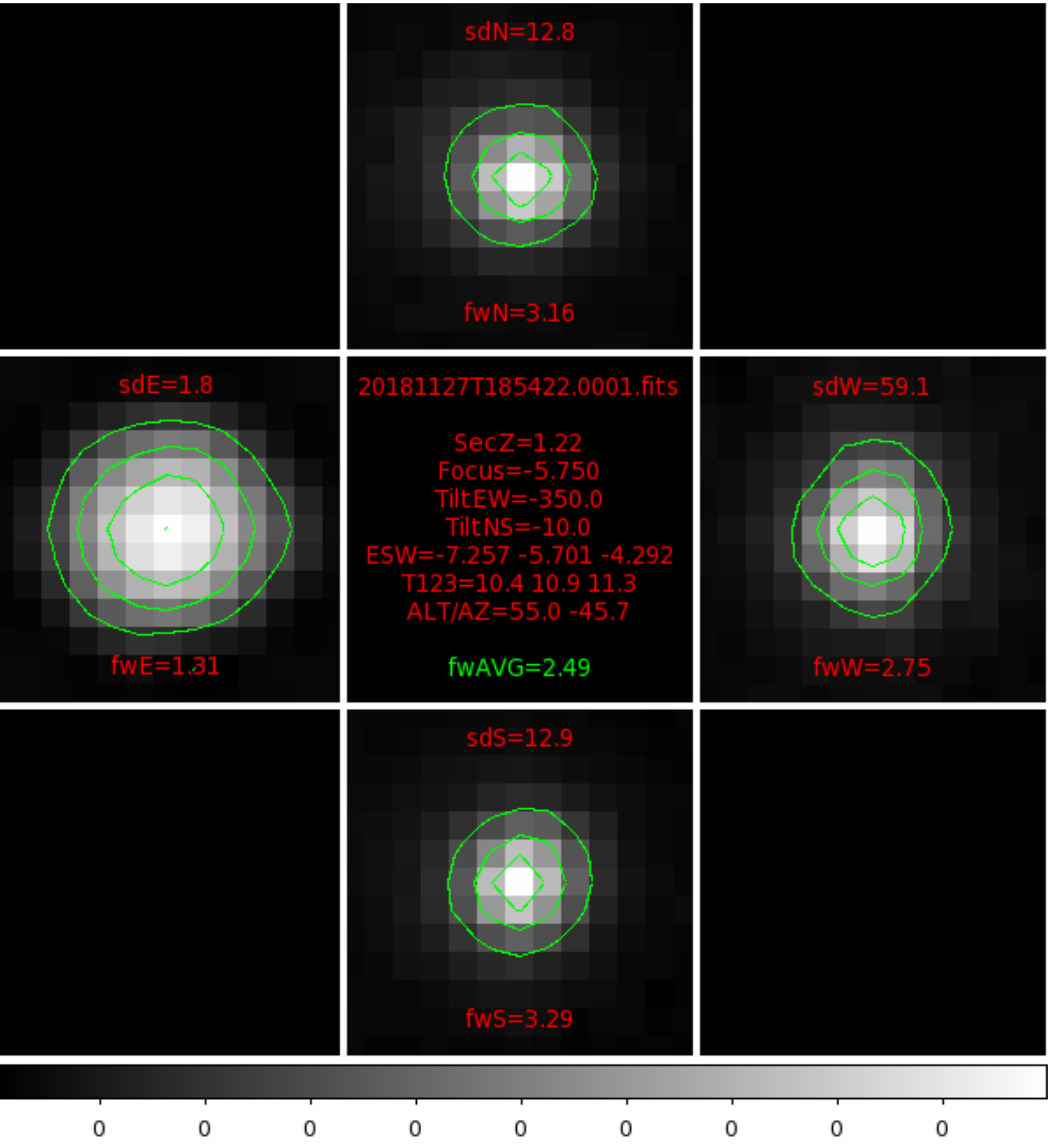
sdN=12.8
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sdE=1.8
fwE=1.31
20181127T185422.0001.fits
SecZ=1.22
Focus=-5.750
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.257 -5.701 -4.292
T123=10.4 10.9 11.3
ALT/AZ=55.0 -45.7
fwAVG=2.49
sdW=59.1
fwW=2.75
sdS=12.9
fwS=3.29
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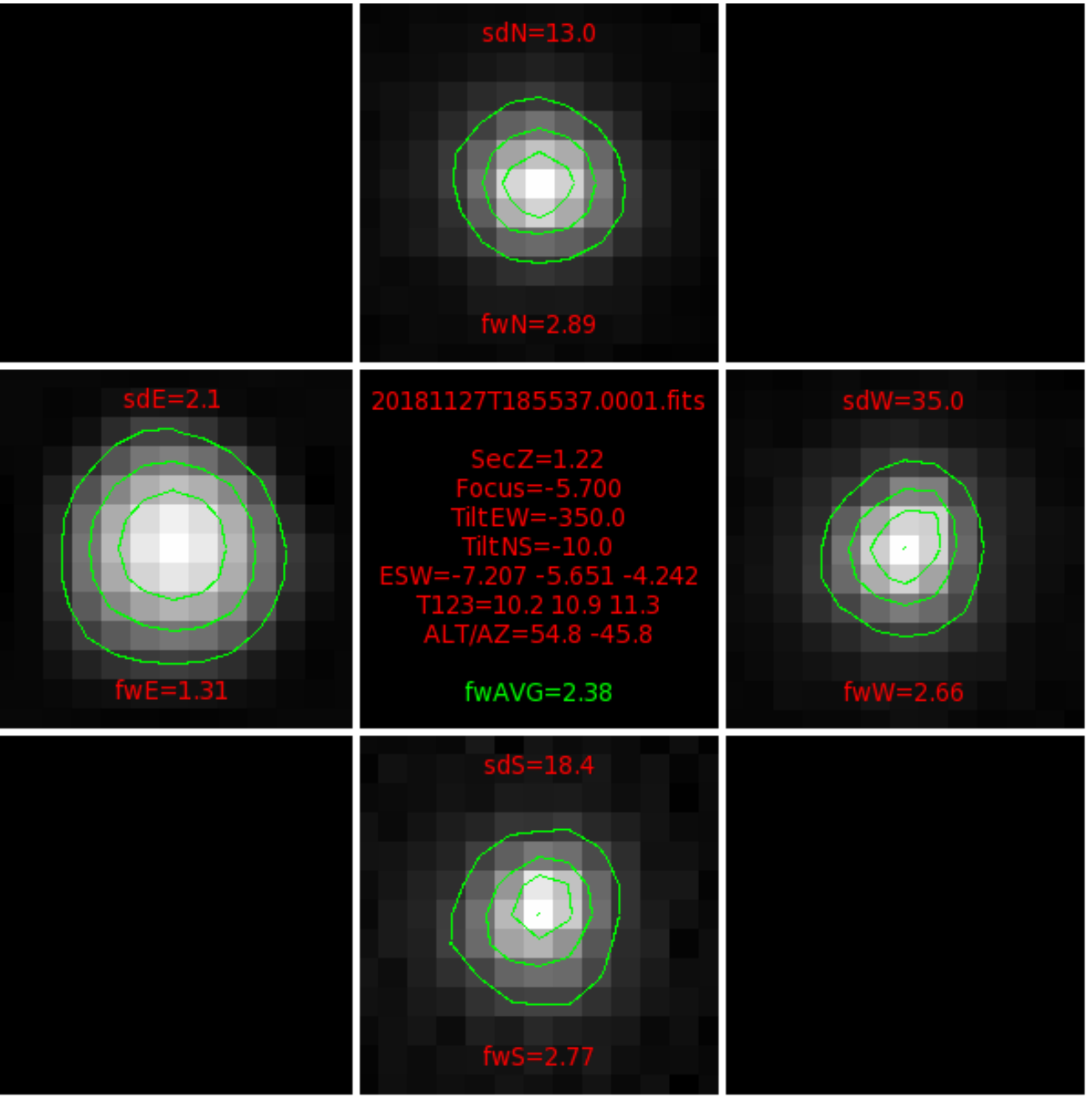
sdN=13.0
fwN=2.89
sdE=2.1
fwE=1.31
20181127T185537.0001.fits
SecZ=1.22
Focus=-5.700
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.207 -5.651 -4.242
T123=10.2 10.9 11.3
ALT/AZ=54.8 -45.8
fwAVG=2.38
sdW=35.0
fwW=2.66
sdS=18.4
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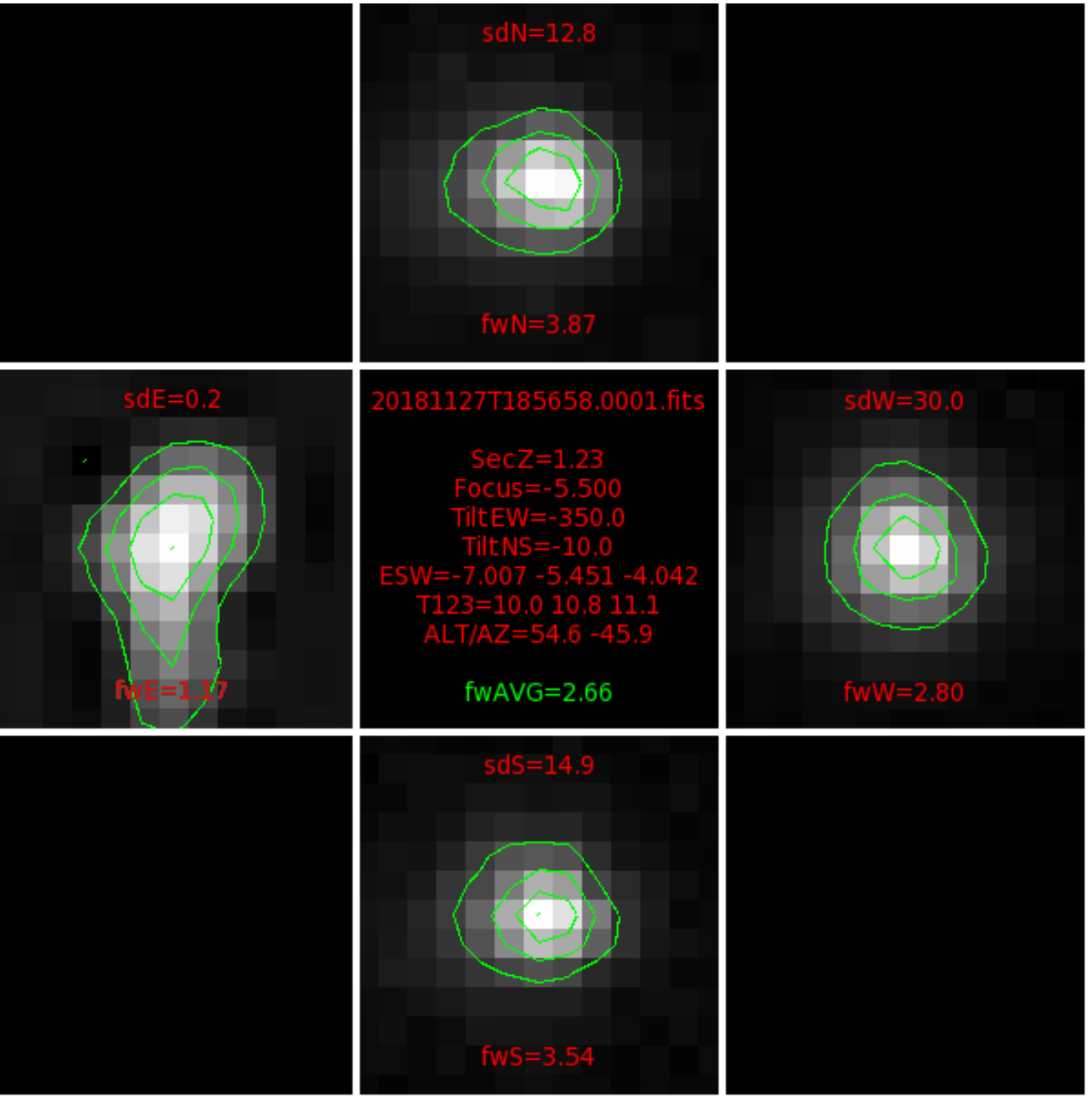
sdN=12.8
fwN=3.87
sdE=0.2
fwE=1.17
20181127T185658.0001.fits
SecZ=1.23
Focus=-5.500
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.007 -5.451 -4.042
T123=10.0 10.8 11.1
ALT/AZ=54.6 -45.9
fwAVG=2.66
sdW=30.0
fwW=2.80
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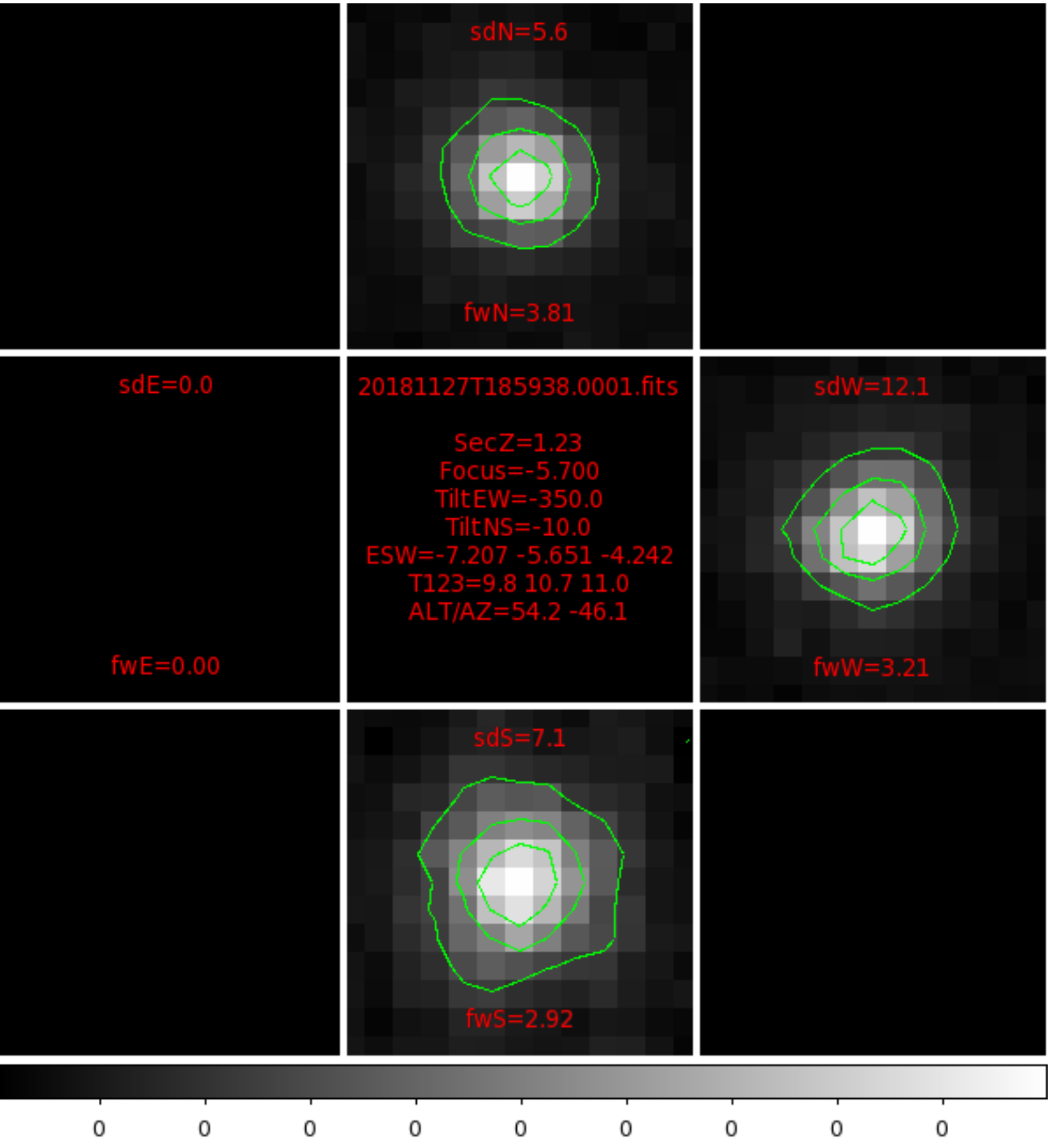
sdN=5.6
fwN=3.81
sdE=0.0
fwE=0.00
20181127T185938.0001.fits
SecZ=1.23
Focus=-5.700
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.207 -5.651 -4.242
T123=9.8 10.7 11.0
ALT/AZ=54.2 -46.1
sdW=12.1
fwW=3.21
sdS=7.1
fwS=2.92
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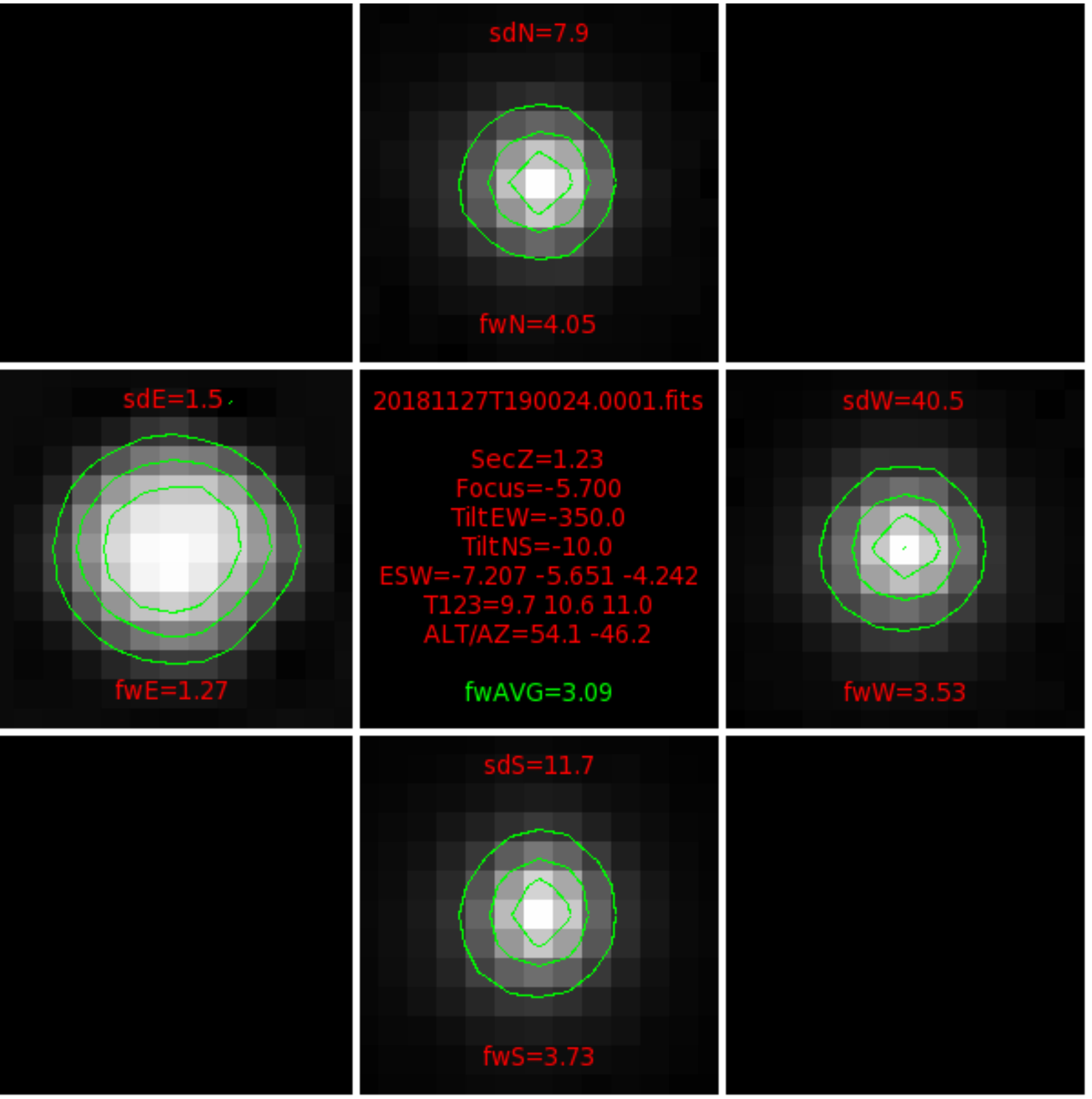
sdN=7.9
fwN=4.05
sdE=1.5
fwE=1.27
20181127T190024.0001.fits
SecZ=1.23
Focus=-5.700
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.207 -5.651 -4.242
T123=9.7 10.6 11.0
ALT/AZ=54.1 -46.2
fwAVG=3.09
sdW=40.5
fwW=3.53
sdS=11.7
fwS=3.73
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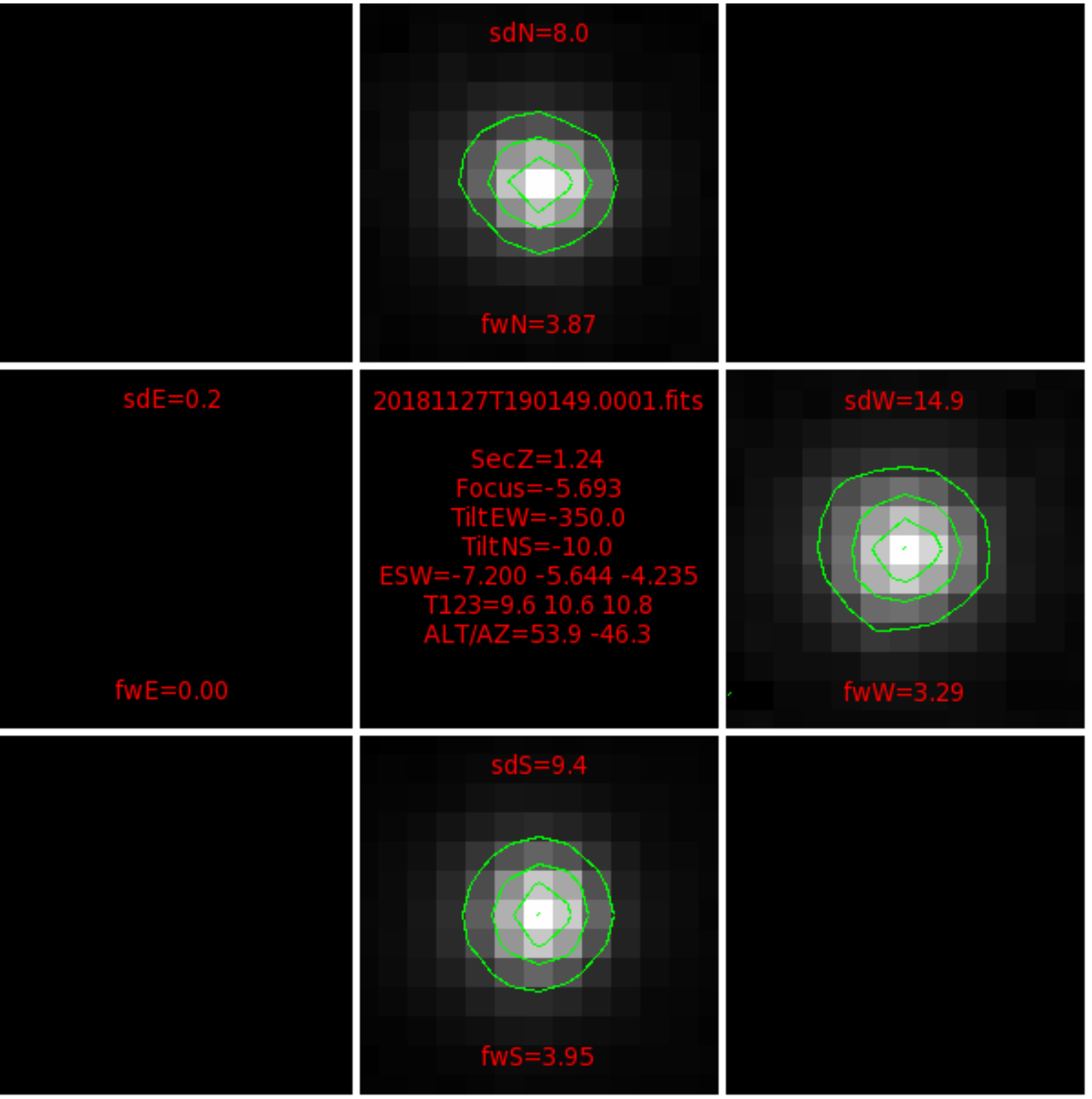
sdN=8.0
fwN=3.87
sdE=0.2
fwE=0.00
20181127T190149.0001.fits
SecZ=1.24
Focus=-5.693
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.200 -5.644 -4.235
T123=9.6 10.6 10.8
ALT/AZ=53.9 -46.3
sdW=14.9
fwW=3.29
sdS=9.4
fwS=3.95
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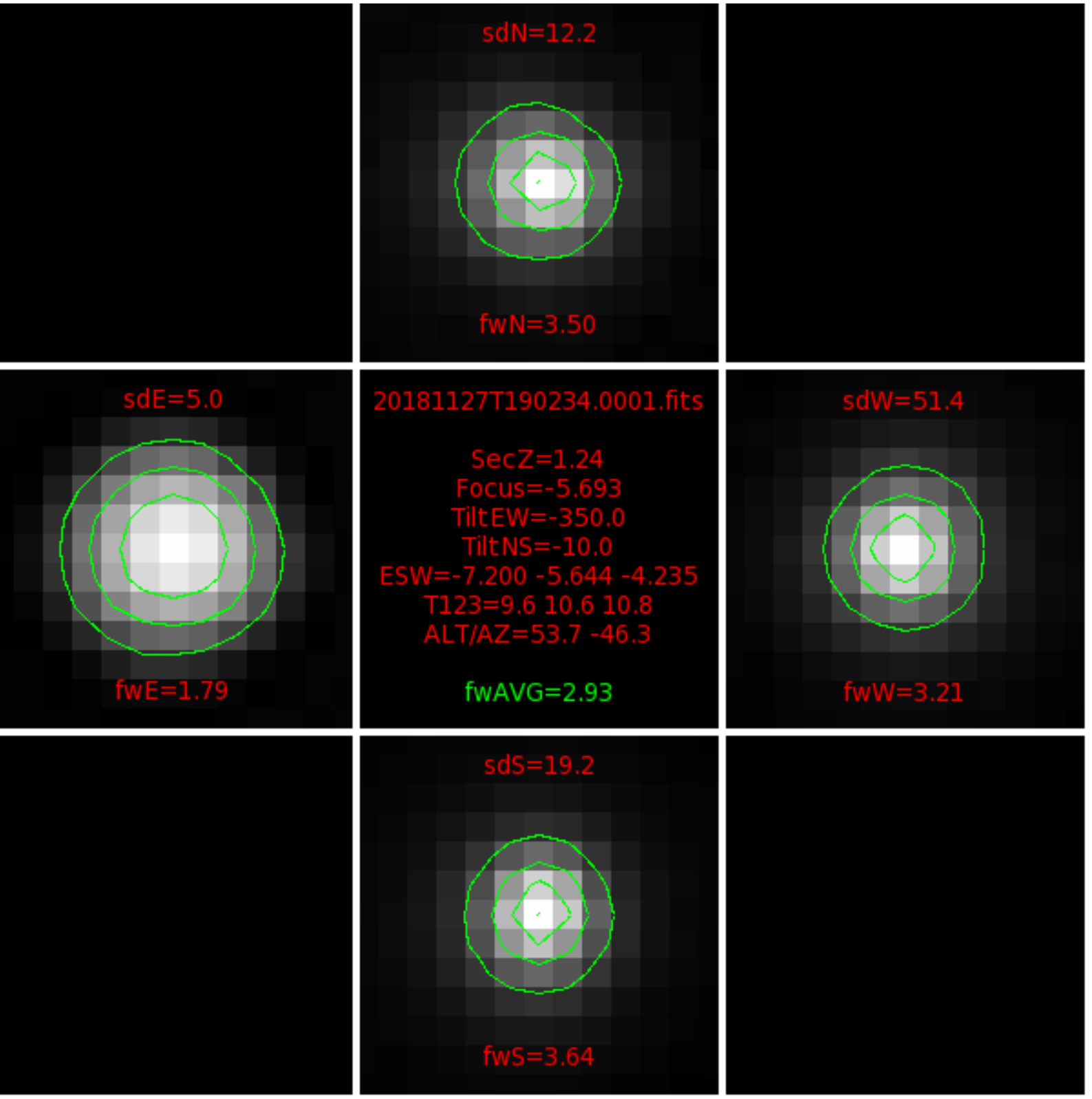
sdN=12.2
fwN=3.50
sdE=5.0
fwE=1.79
20181127T190234.0001.fits
SecZ=1.24
Focus=-5.693
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.200 -5.644 -4.235
T123=9.6 10.6 10.8
ALT/AZ=53.7 -46.3
fwAVG=2.93
sdW=51.4
fwW=3.21
sdS=19.2
fwS=3.64
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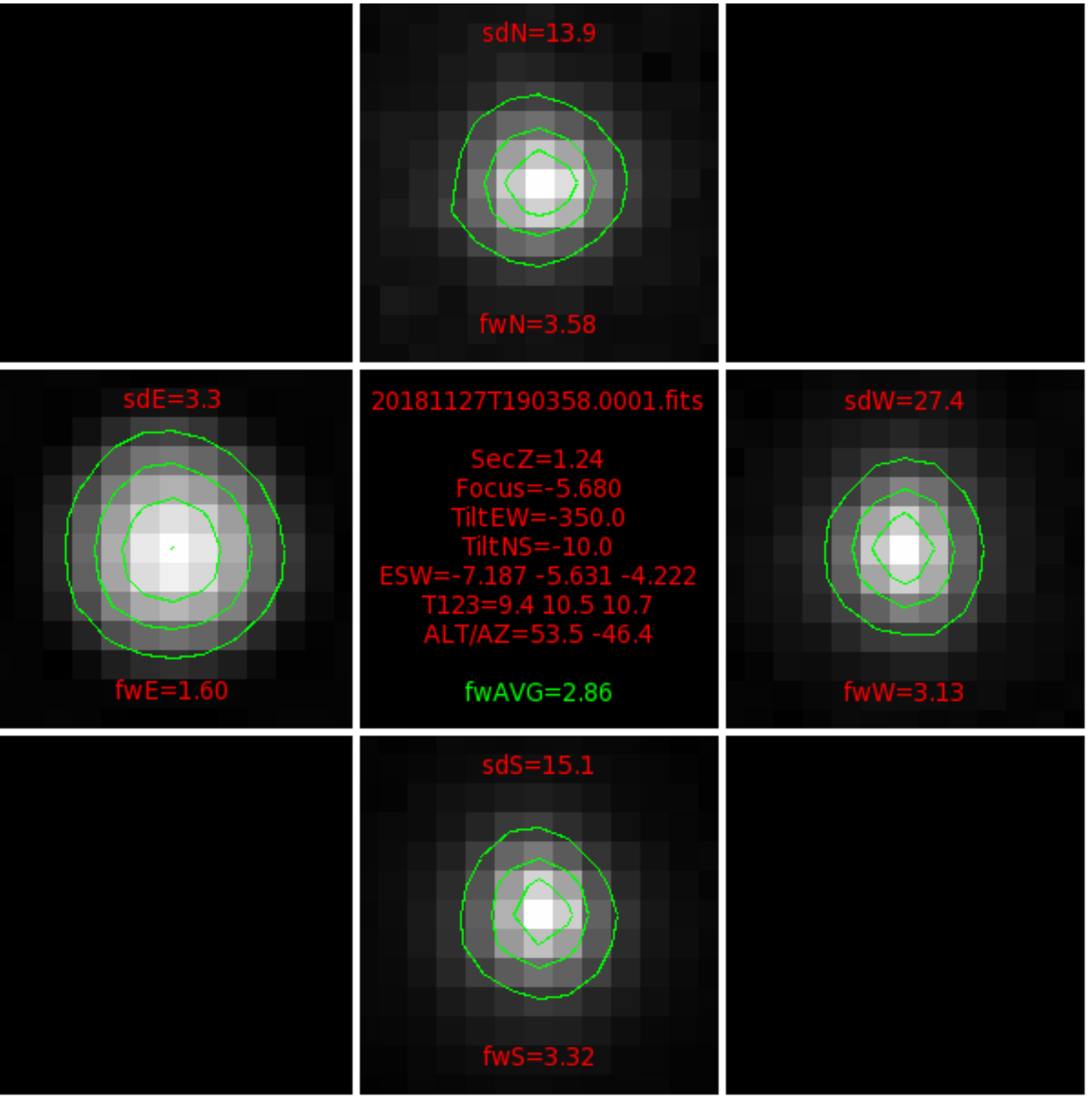
sdN=13.9
fwN=3.58
sdE=3.3
fwE=1.60
20181127T190358.0001.fits
SecZ=1.24
Focus=-5.680
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.187 -5.631 -4.222
T123=9.4 10.5 10.7
ALT/AZ=53.5 -46.4
fwAVG=2.86
sdW=27.4
fwW=3.13
sdS=15.1
fwS=3.32
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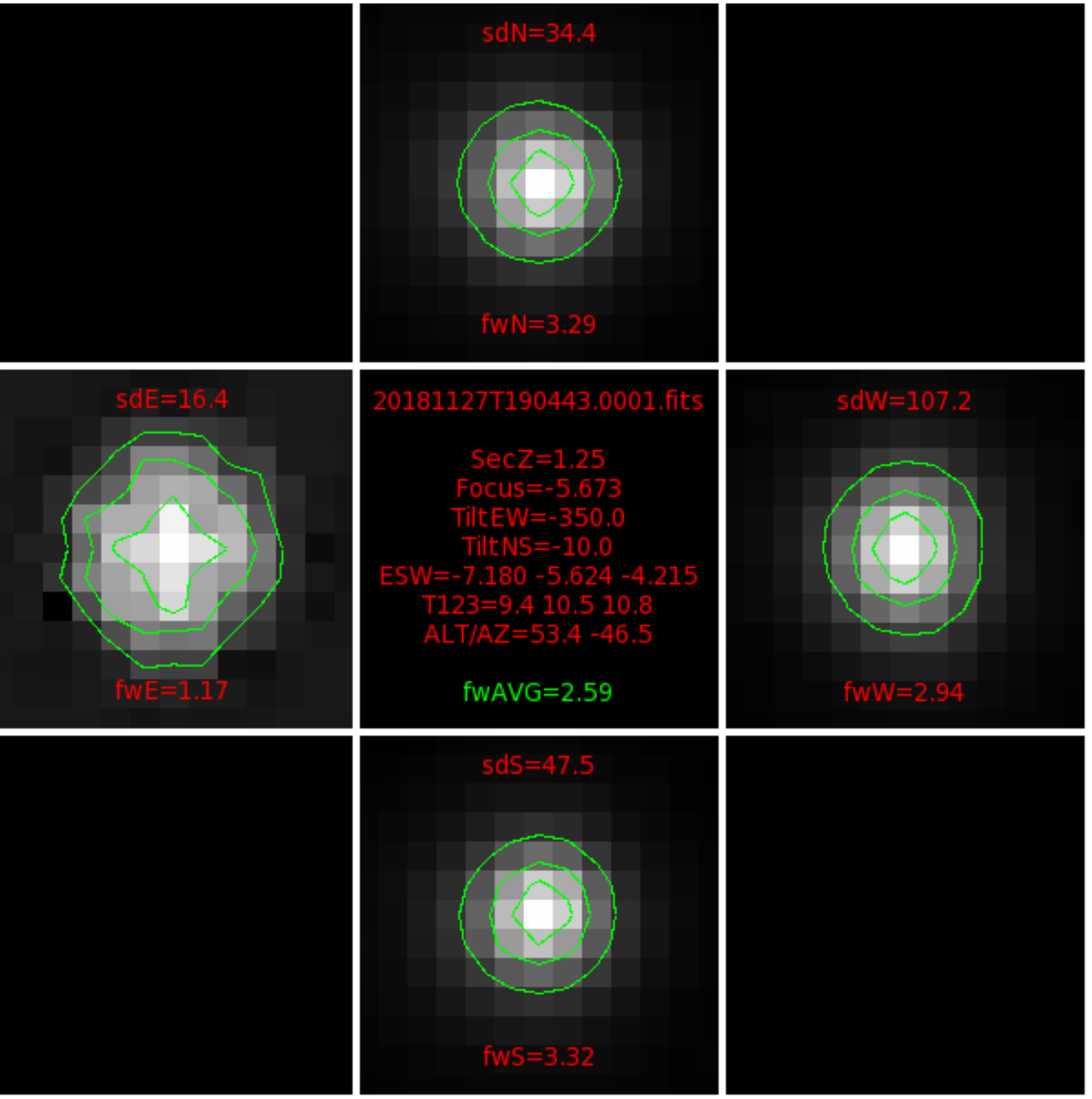
sdN=34.4
fwN=3.29
sdE=16.4
fwE=1.17
20181127T190443.0001.fits
SecZ=1.25
Focus=-5.673
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.180 -5.624 -4.215
T123=9.4 10.5 10.8
ALT/AZ=53.4 -46.5
fwAVG=2.59
sdW=107.2
fwW=2.94
sdS=47.5
fwS=3.32
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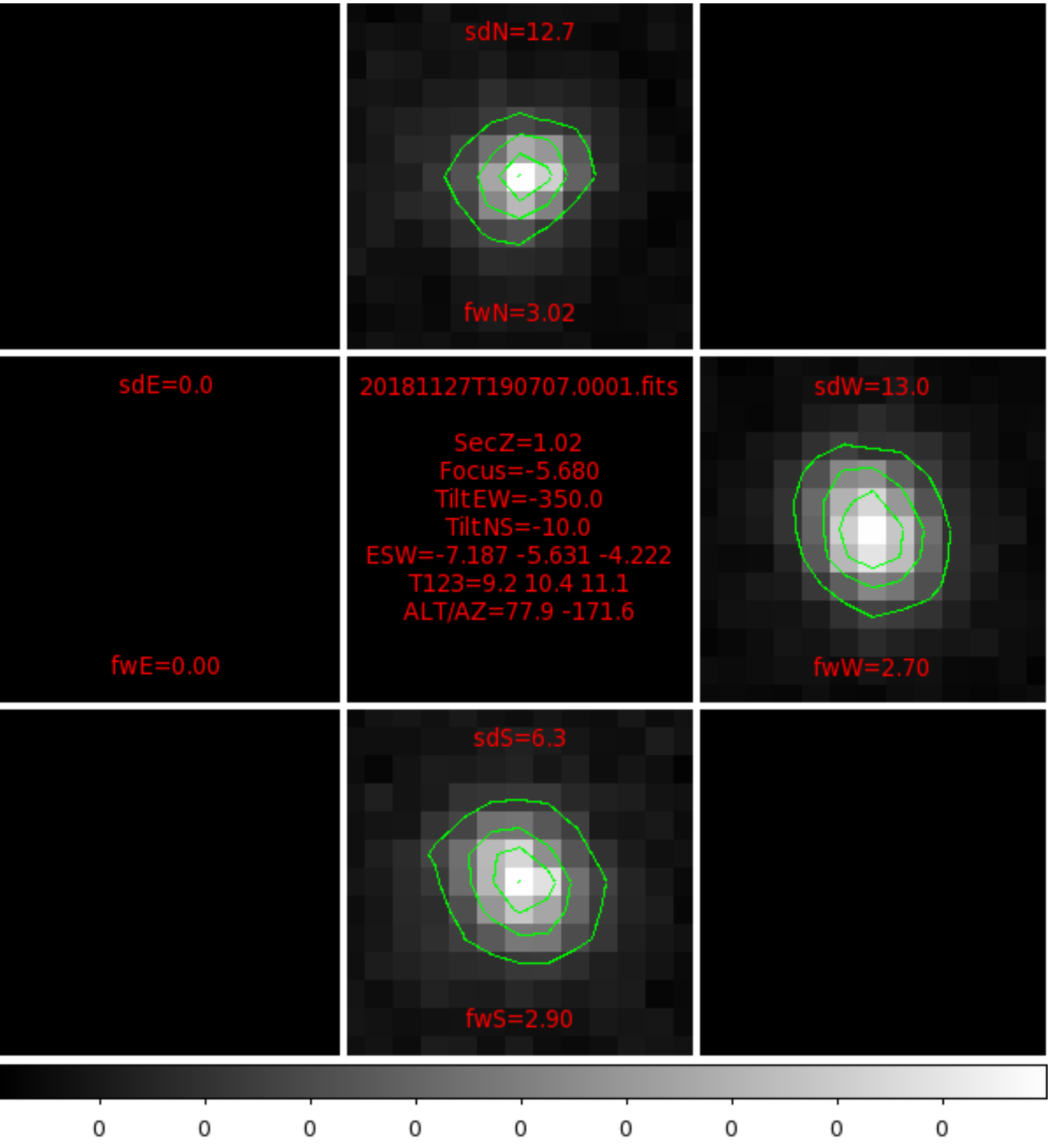
sdN=12.7
fwN=3.02
sdE=0.0
fwE=0.00
20181127T190707.0001.fits
SecZ=1.02
Focus=-5.680
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.187 -5.631 -4.222
T123=9.2 10.4 11.1
ALT/AZ=77.9 -171.6
sdW=13.0
fwW=2.70
sdS=6.3
fwS=2.90
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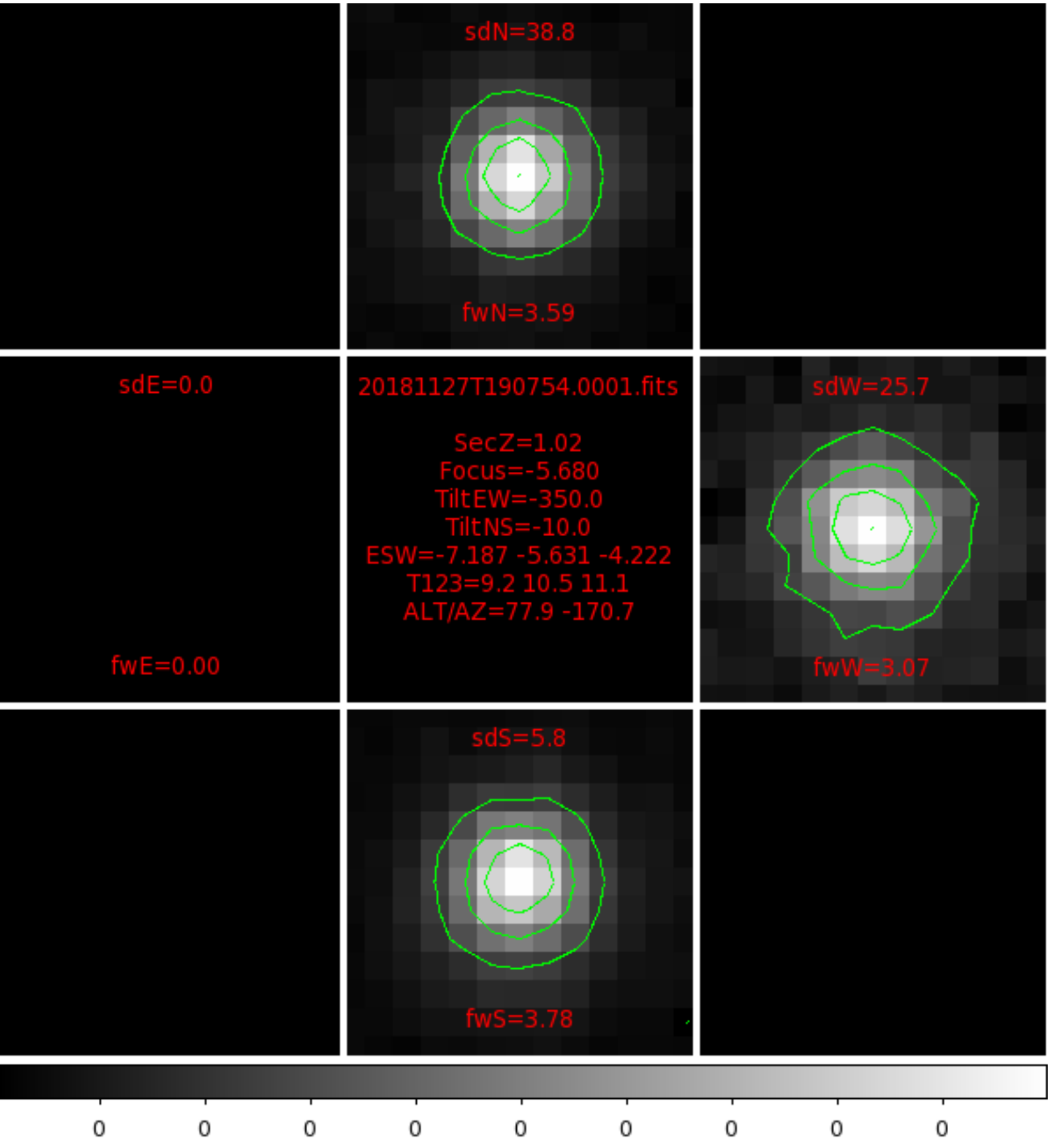
sdN=38.8
fwN=3.59
sdE=0.0
fwE=0.00
20181127T190754.0001.fits
SecZ=1.02
Focus=-5.680
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.187 -5.631 -4.222
T123=9.2 10.5 11.1
ALT/AZ=77.9 -170.7
sdW=25.7
fwW=3.07
sdS=5.8
fwS=3.78
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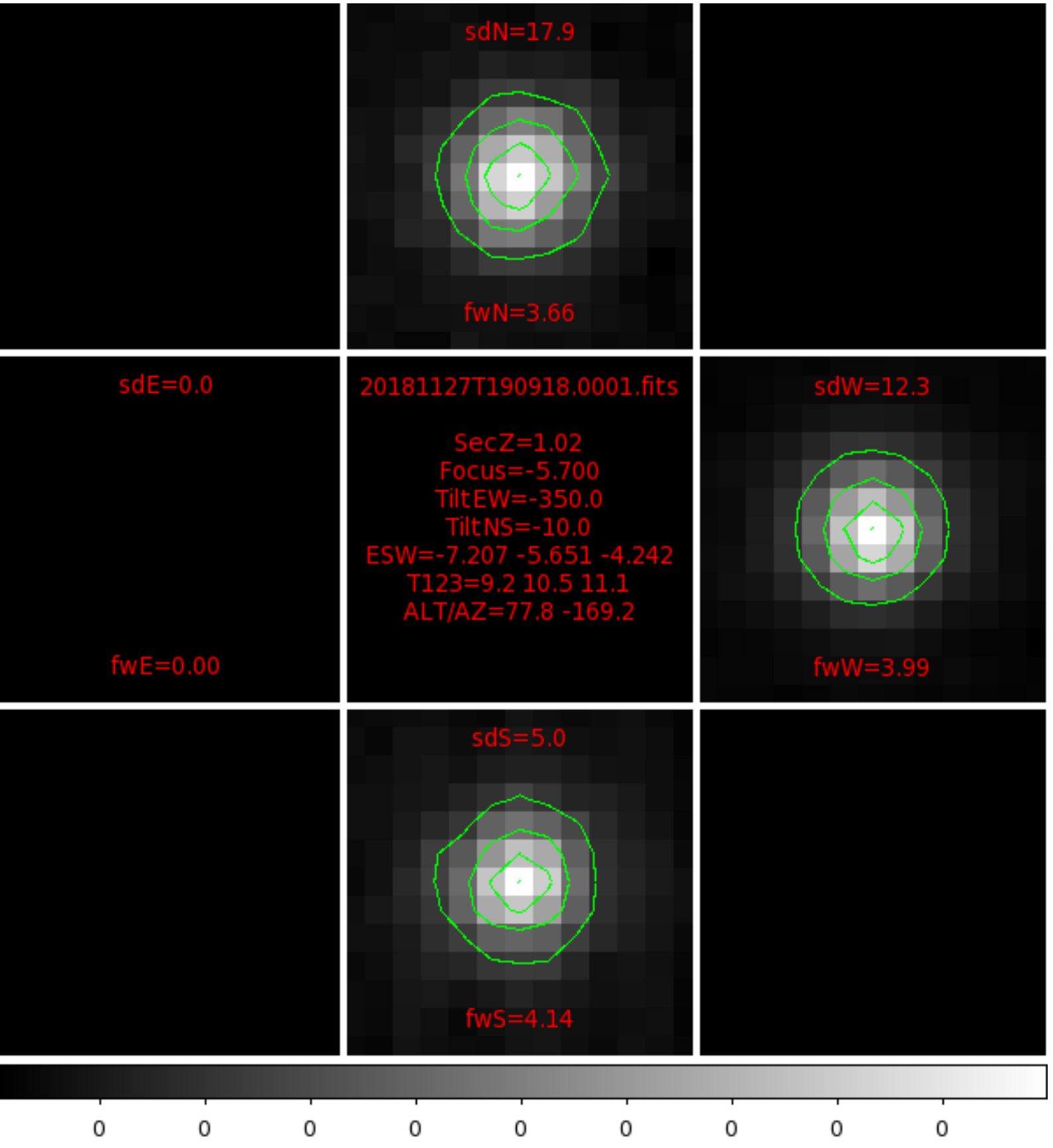
sdN=17.9
fwN=3.66
sdE=0.0
fwE=0.00
20181127T190918.0001.fits
SecZ=1.02
Focus=-5.700
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.207 -5.651 -4.242
T123=9.2 10.5 11.1
ALT/AZ=77.8 -169.2
sdW=12.3
fwW=3.99
sdS=5.0
fwS=4.14
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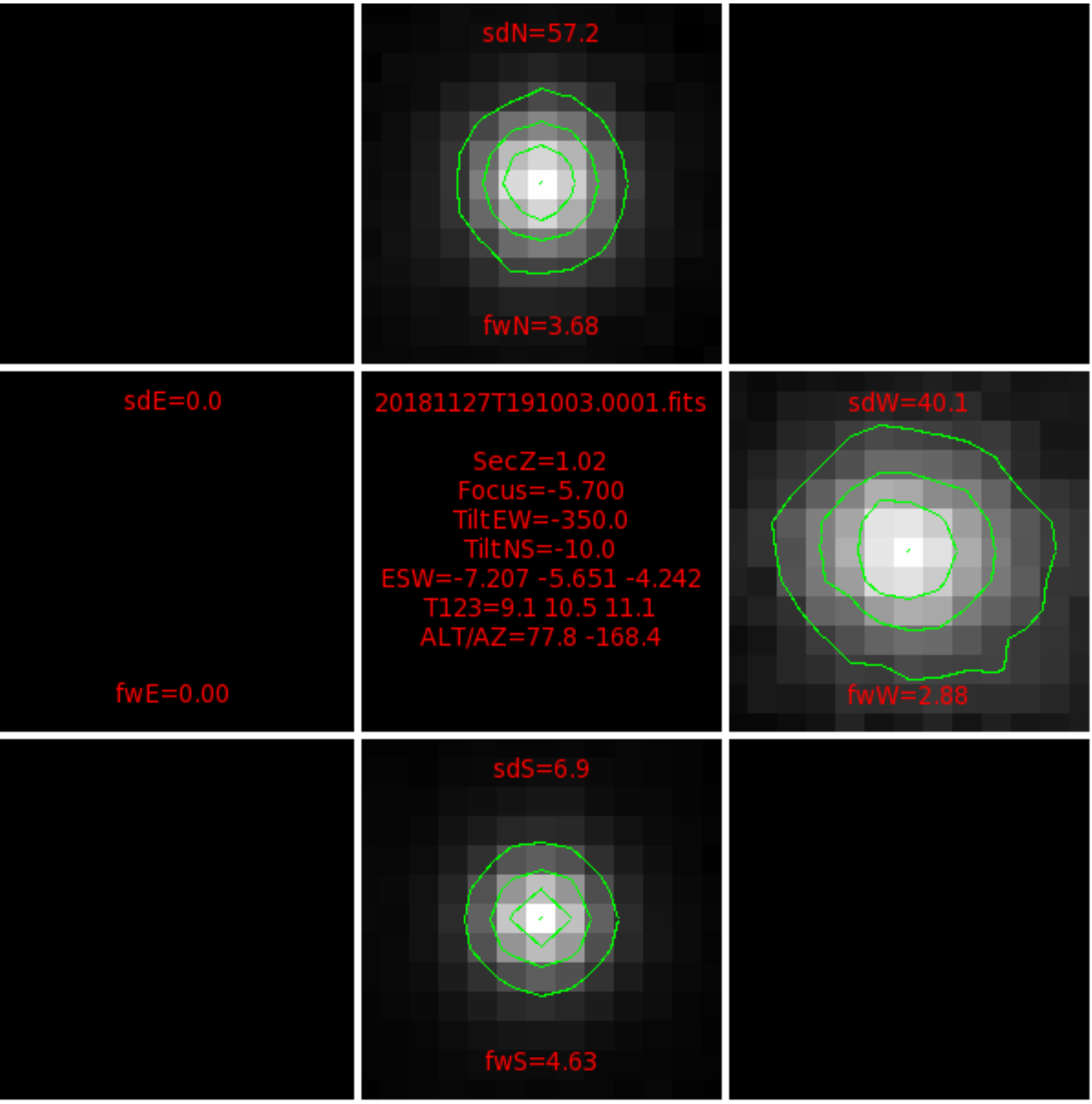
sdN=57.2
fwN=3.68
sdE=0.0
fwE=0.00
20181127T191003.0001.fits
SecZ=1.02
Focus=-5.700
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.207 -5.651 -4.242
T123=9.1 10.5 11.1
ALT/AZ=77.8 -168.4
sdW=40.1
fwW=2.88
sdS=6.9
fwS=4.63
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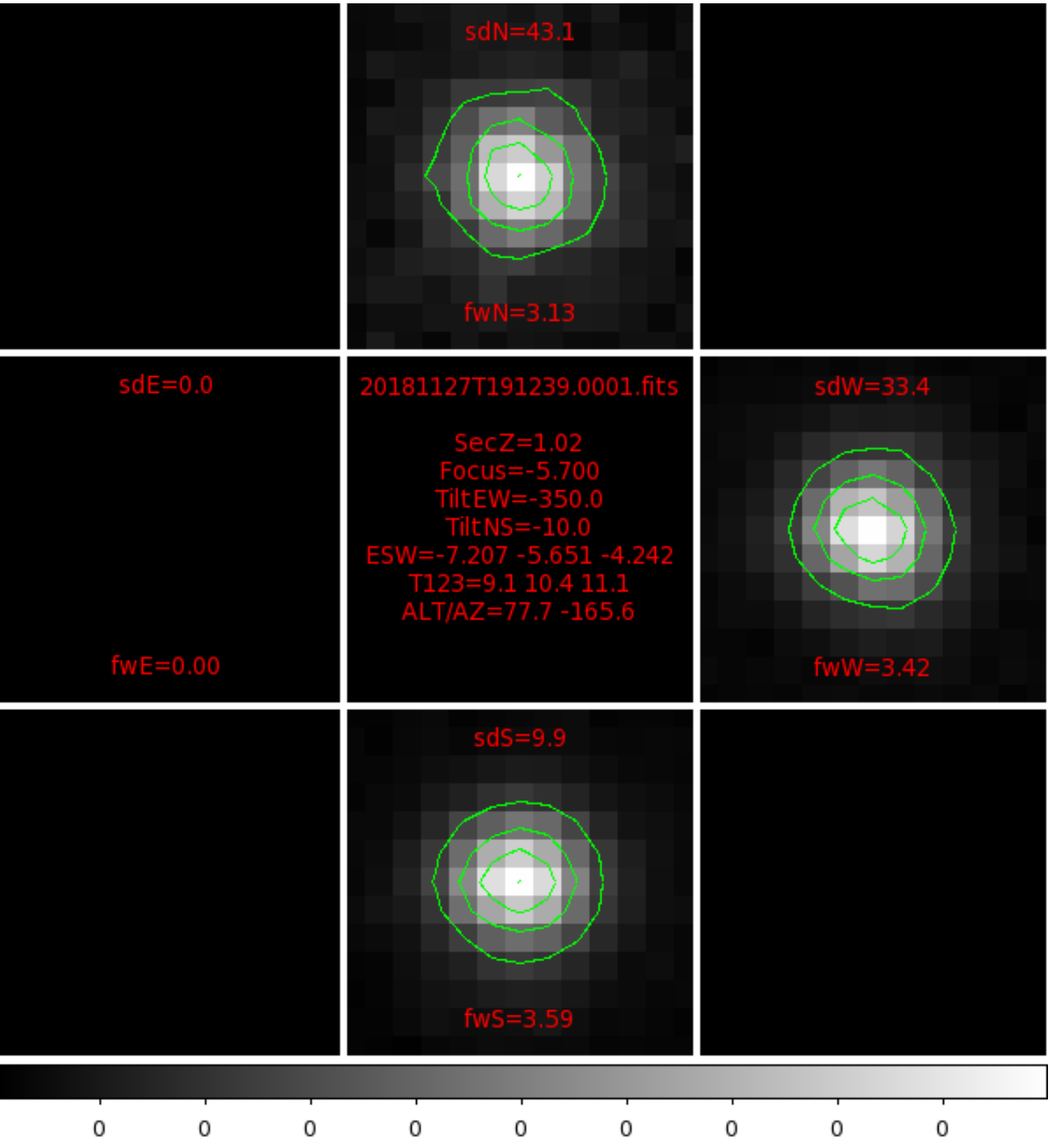
sdN=43.1
fwN=3.13
sdE=0.0
fwE=0.00
20181127T191239.0001.fits
SecZ=1.02
Focus=-5.700
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.207 -5.651 -4.242
T123=9.1 10.4 11.1
ALT/AZ=77.7 -165.6
sdW=33.4
fwW=3.42
sdS=9.9
fwS=3.59
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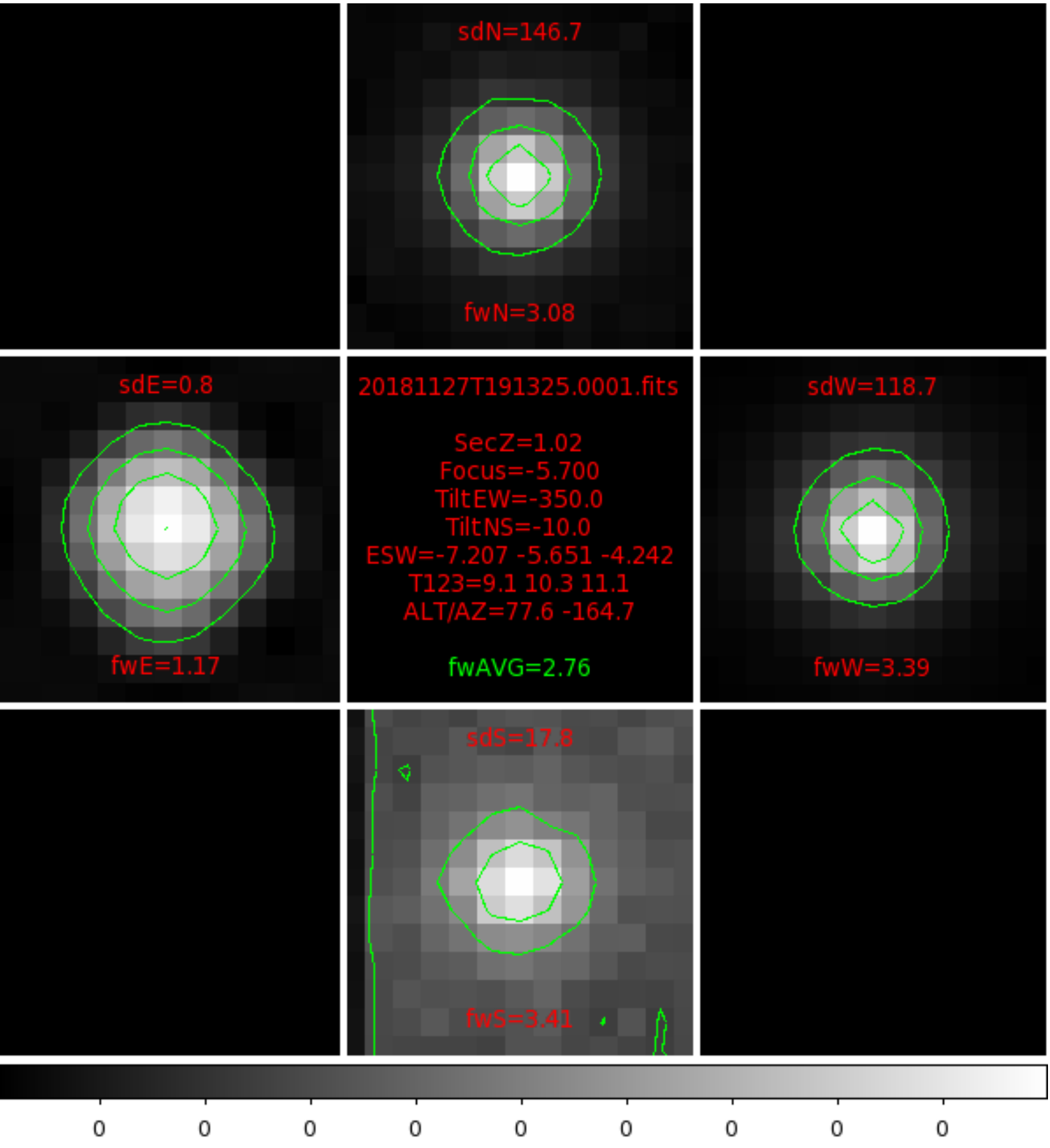
sdN=146.7
fwN=3.08
sdE=0.8
fwE=1.17
20181127T191325.0001.fits
SecZ=1.02
Focus=-5.700
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.207 -5.651 -4.242
T123=9.1 10.3 11.1
ALT/AZ=77.6 -164.7
fwAVG=2.76
sdW=118.7
fwW=3.39
sdS=17.8
fwS=3.41
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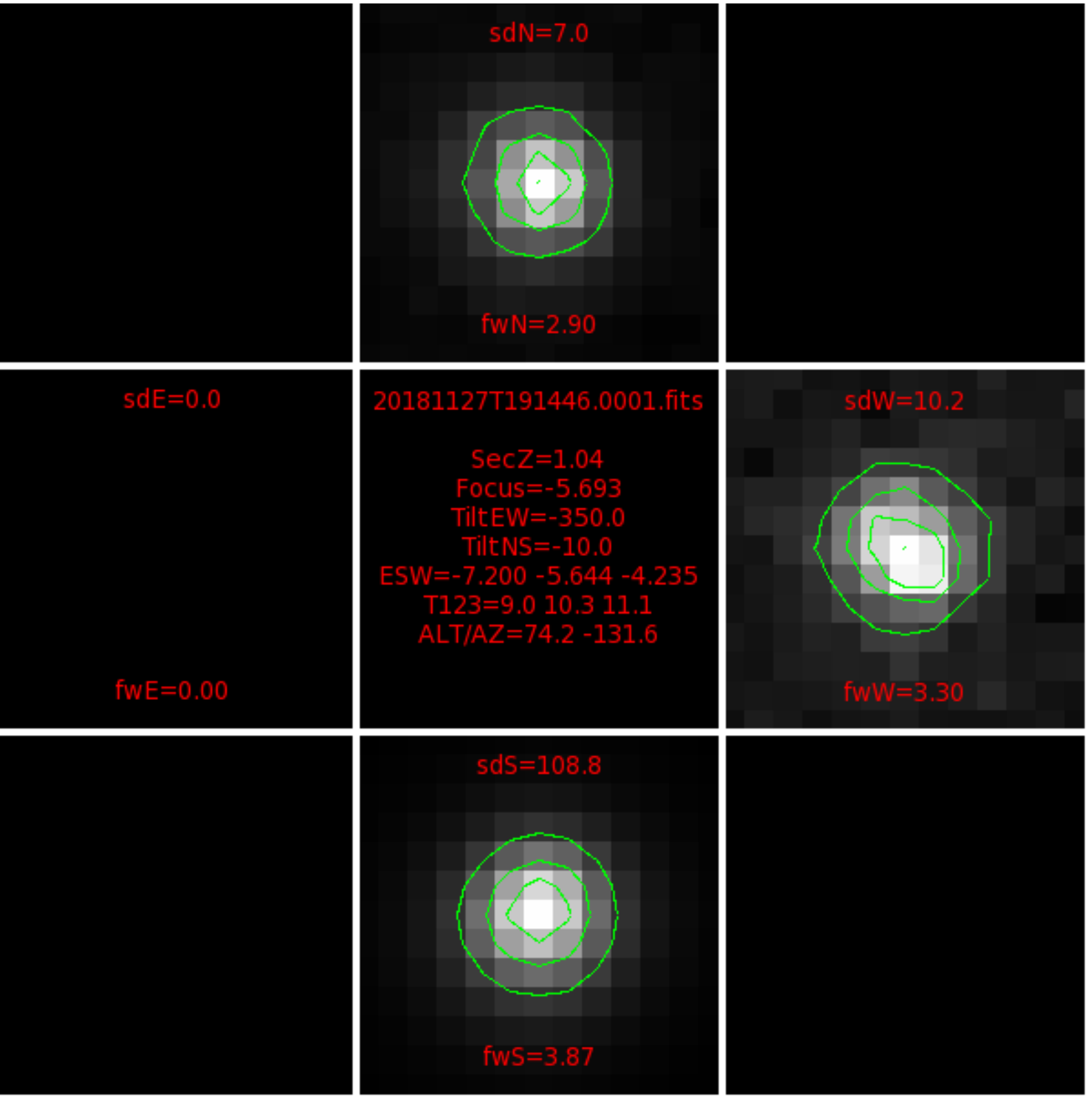
sdN=7.0
fwN=2.90
sdE=0.0
fwE=0.00
20181127T191446.0001.fits
SecZ=1.04
Focus=-5.693
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.200 -5.644 -4.235
T123=9.0 10.3 11.1
ALT/AZ=74.2 -131.6
sdW=10.2
fwW=3.30
sdS=108.8
fwS=3.87
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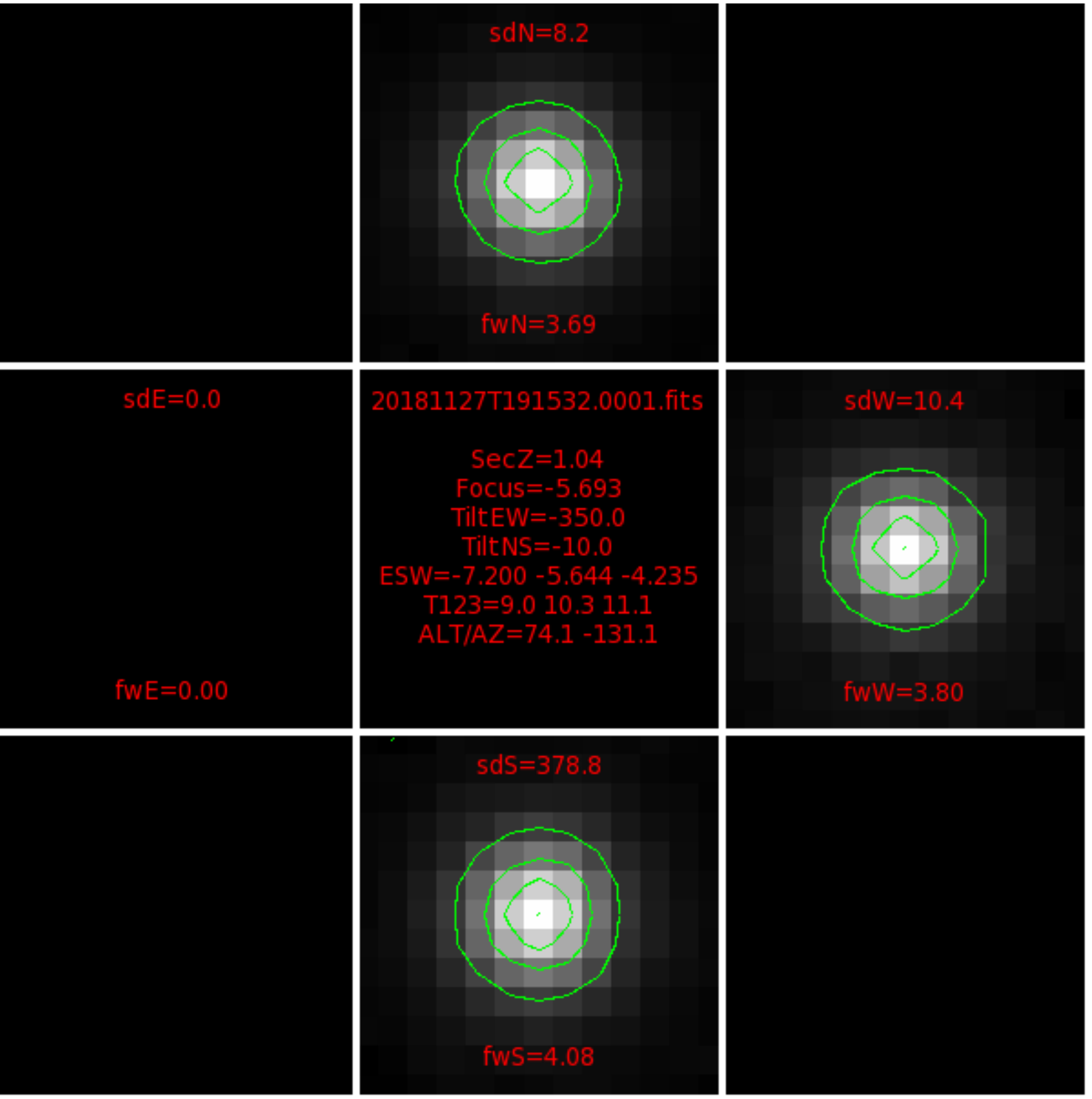
sdN=8.2
fwN=3.69
sdE=0.0
fwE=0.00
20181127T191532.0001.fits
SecZ=1.04
Focus=-5.693
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.200 -5.644 -4.235
T123=9.0 10.3 11.1
ALT/AZ=74.1 -131.1
sdW=10.4
fwW=3.80
sdS=378.8
fwS=4.08
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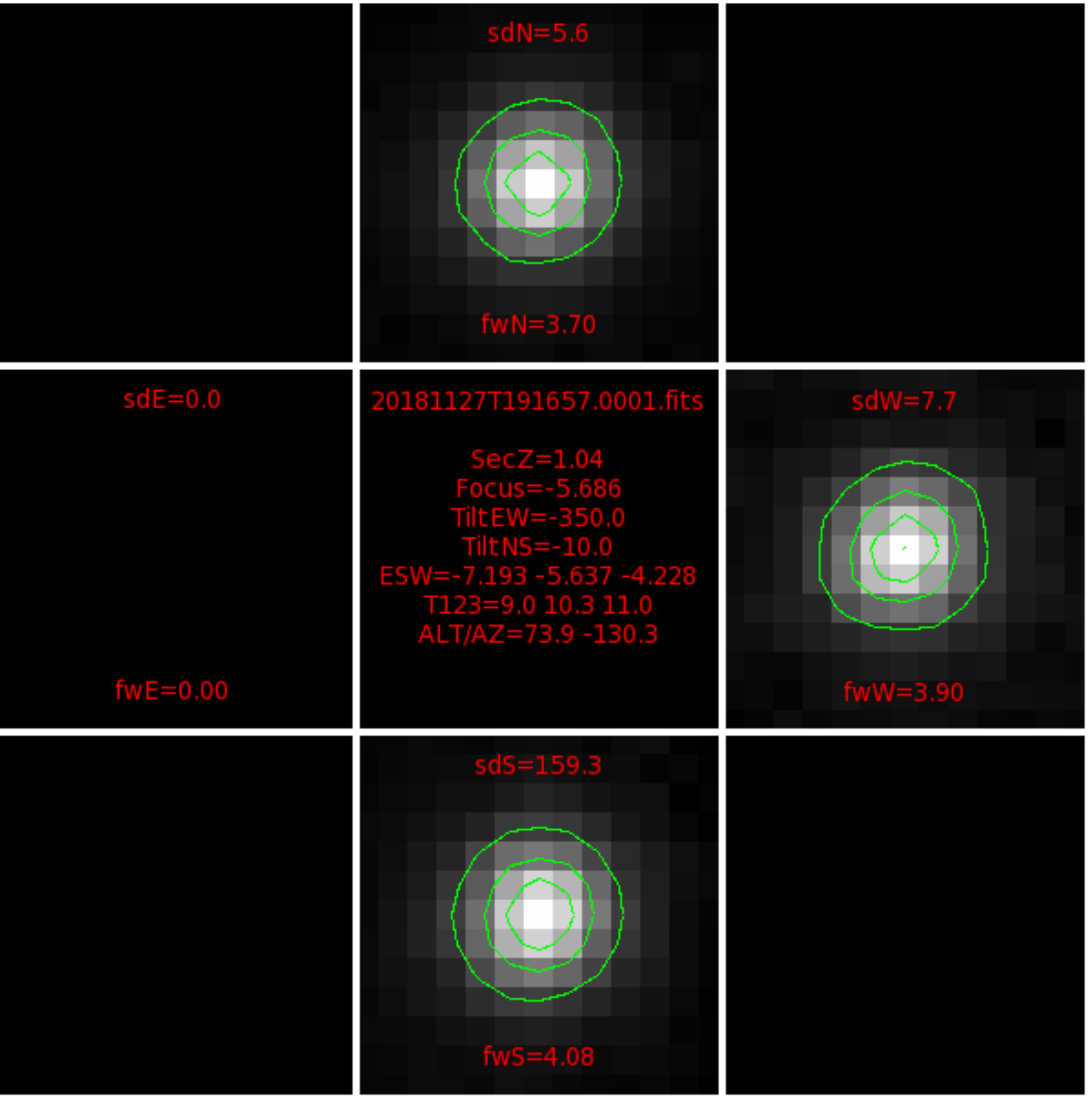
sdN=5.6
fwN=3.70
sdE=0.0
fwE=0.00
20181127T191657.0001.fits
SecZ=1.04
Focus=-5.686
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.193 -5.637 -4.228
T123=9.0 10.3 11.0
ALT/AZ=73.9 -130.3
sdW=7.7
fwW=3.90
sdS=159.3
fwS=4.08
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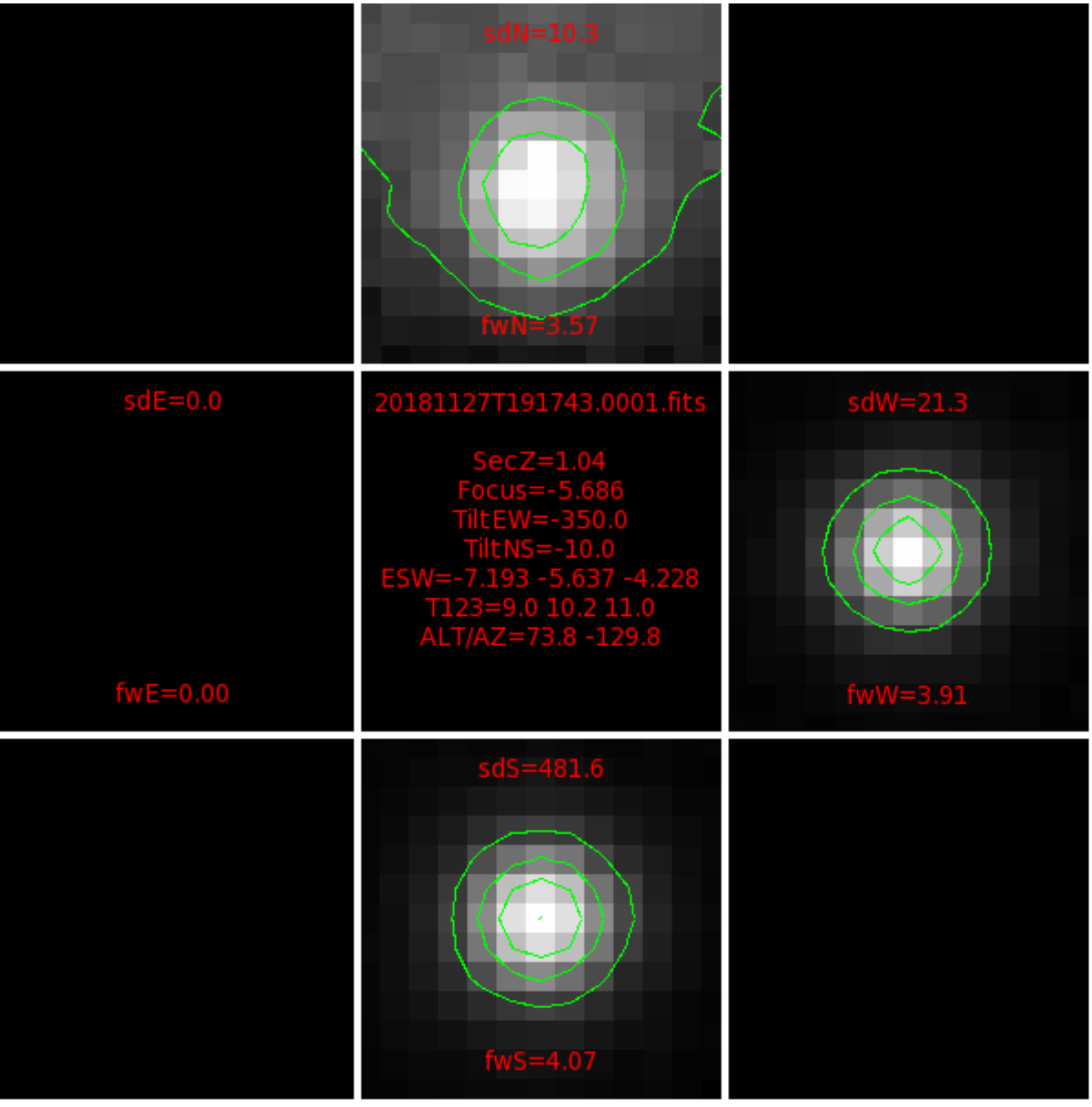
sdN=10.3
fwN=3.57
sdE=0.0
fwE=0.00
20181127T191743.0001.fits
SecZ=1.04
Focus=-5.686
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.193 -5.637 -4.228
T123=9.0 10.2 11.0
ALT/AZ=73.8 -129.8
sdW=21.3
fwW=3.91
sdS=481.6
fwS=4.07
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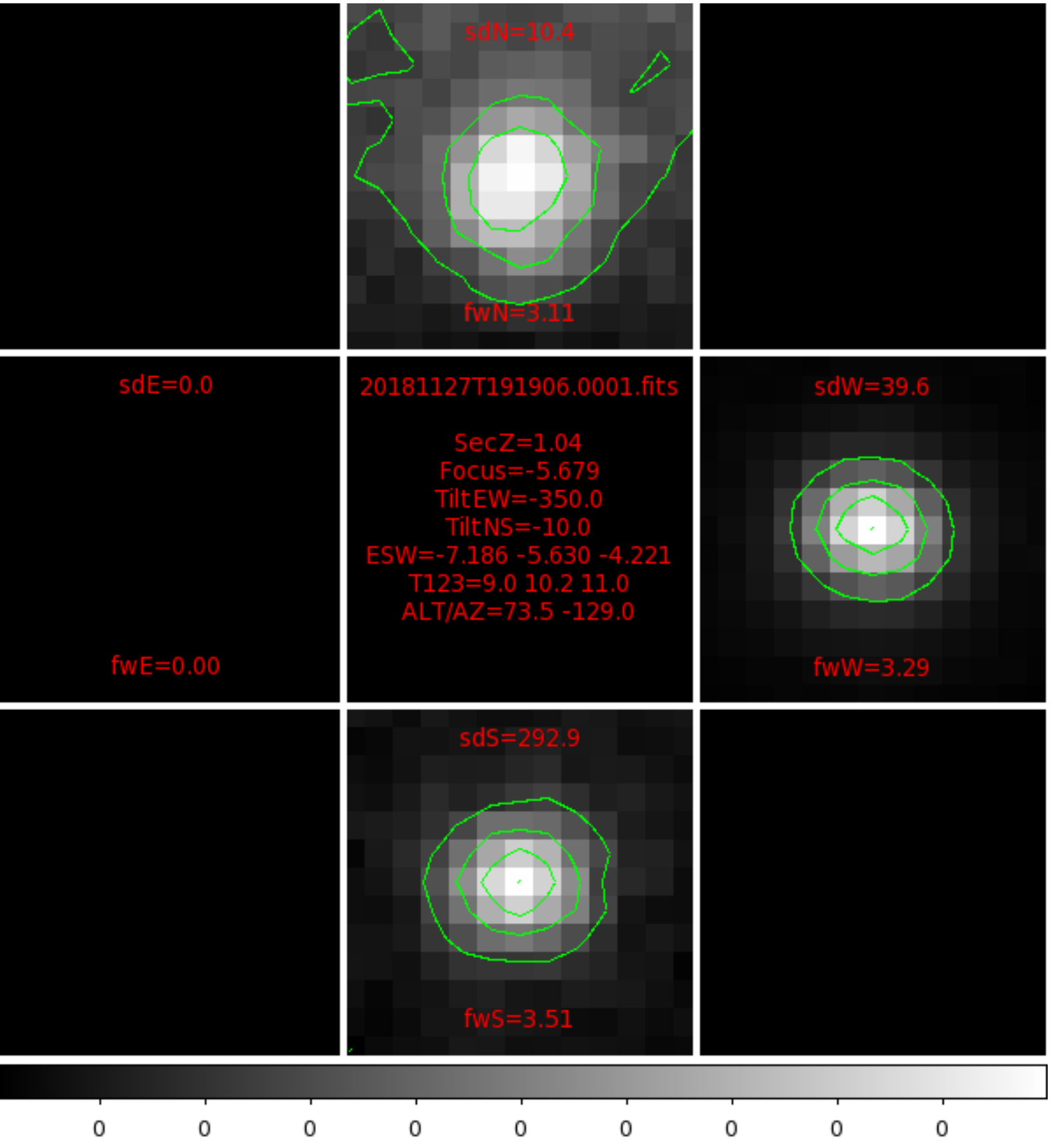
sdN=10.4
fwN=3.11
sdE=0.0
20181127T191906.0001.fits
SecZ=1.04
Focus=-5.679
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.186 -5.630 -4.221
T123=9.0 10.2 11.0
ALT/AZ=73.5 -129.0
sdW=39.6
fwE=0.00
fwW=3.29
sdS=292.9
fwS=3.51
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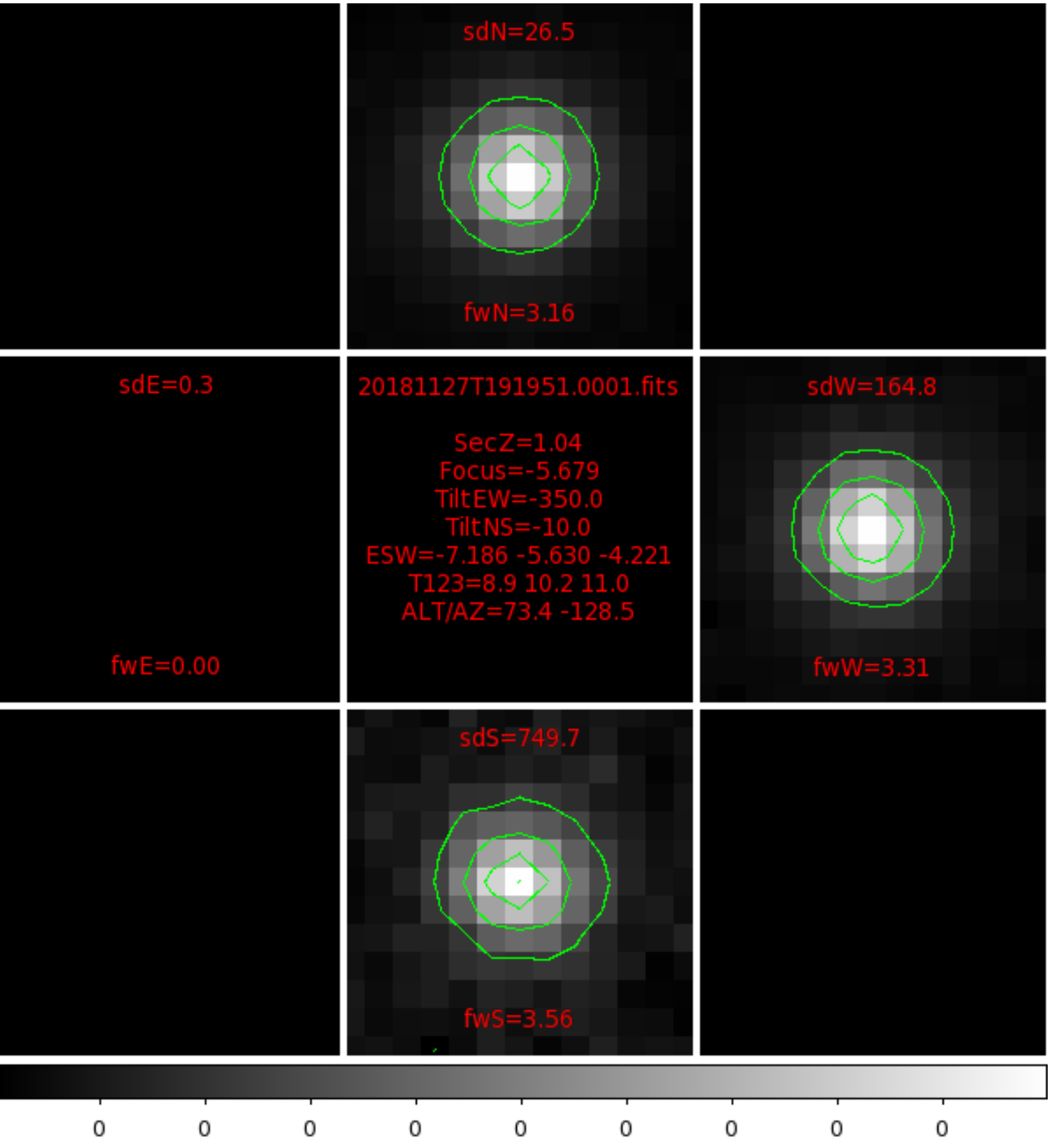
sdN=26.5
fwN=3.16
sdE=0.3
fwE=0.00
20181127T191951.0001.fits
SecZ=1.04
Focus=-5.679
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.186 -5.630 -4.221
T123=8.9 10.2 11.0
ALT/AZ=73.4 -128.5
sdW=164.8
fwW=3.31
sdS=749.7
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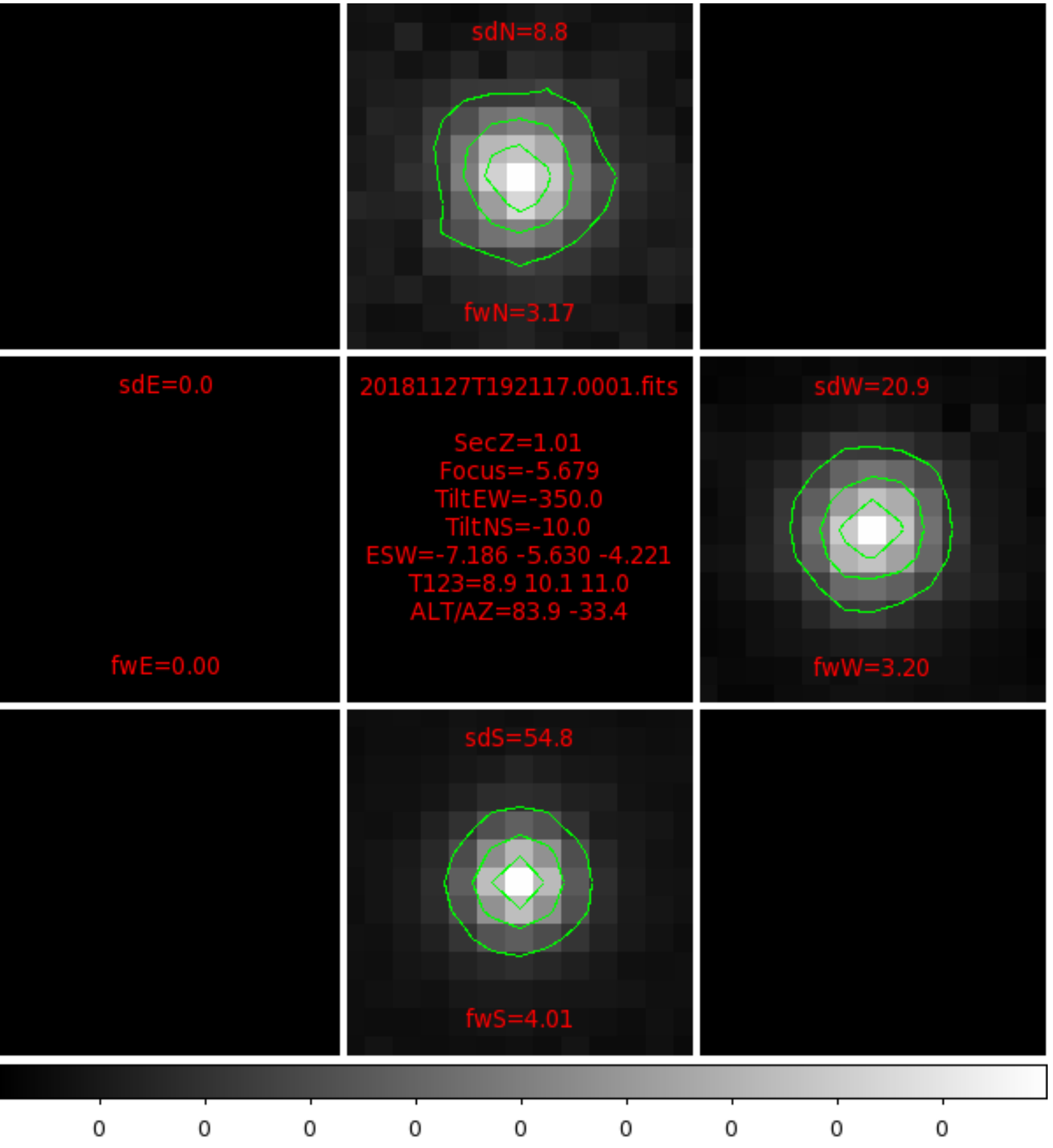
sdN=8.8
fwN=3.17
sdE=0.0
fwE=0.00
20181127T192117.0001.fits
SecZ=1.01
Focus=-5.679
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.186 -5.630 -4.221
T123=8.9 10.1 11.0
ALT/AZ=83.9 -33.4
sdW=20.9
fwW=3.20
sdS=54.8
fwS=4.01
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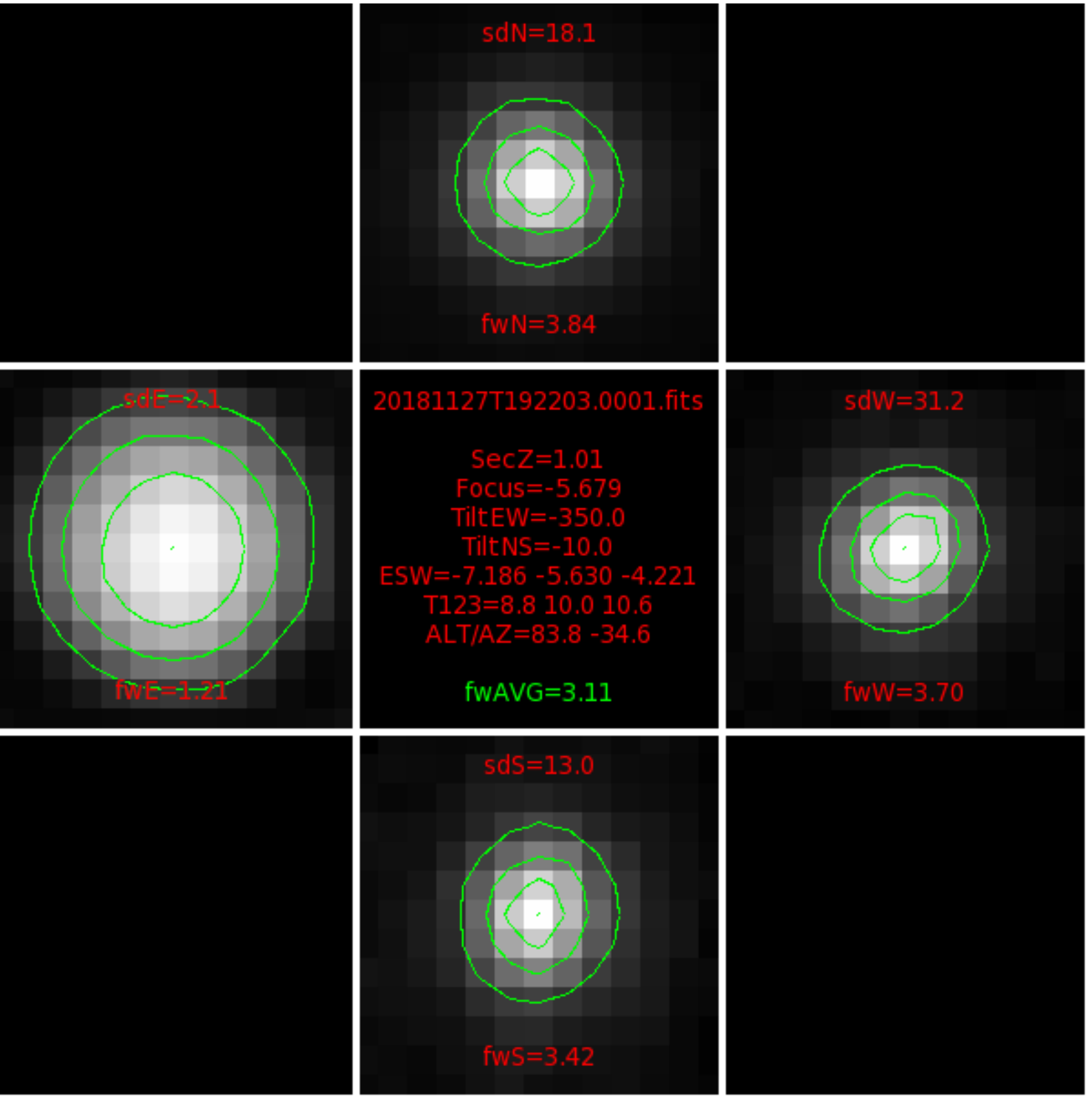
sdN=18.1
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sdE=2.1
fwE=1.21
20181127T192203.0001.fits
SecZ=1.01
Focus=-5.679
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.186 -5.630 -4.221
T123=8.8 10.0 10.6
ALT/AZ=83.8 -34.6
fwAVG=3.11
sdW=31.2
fwW=3.70
sdS=13.0
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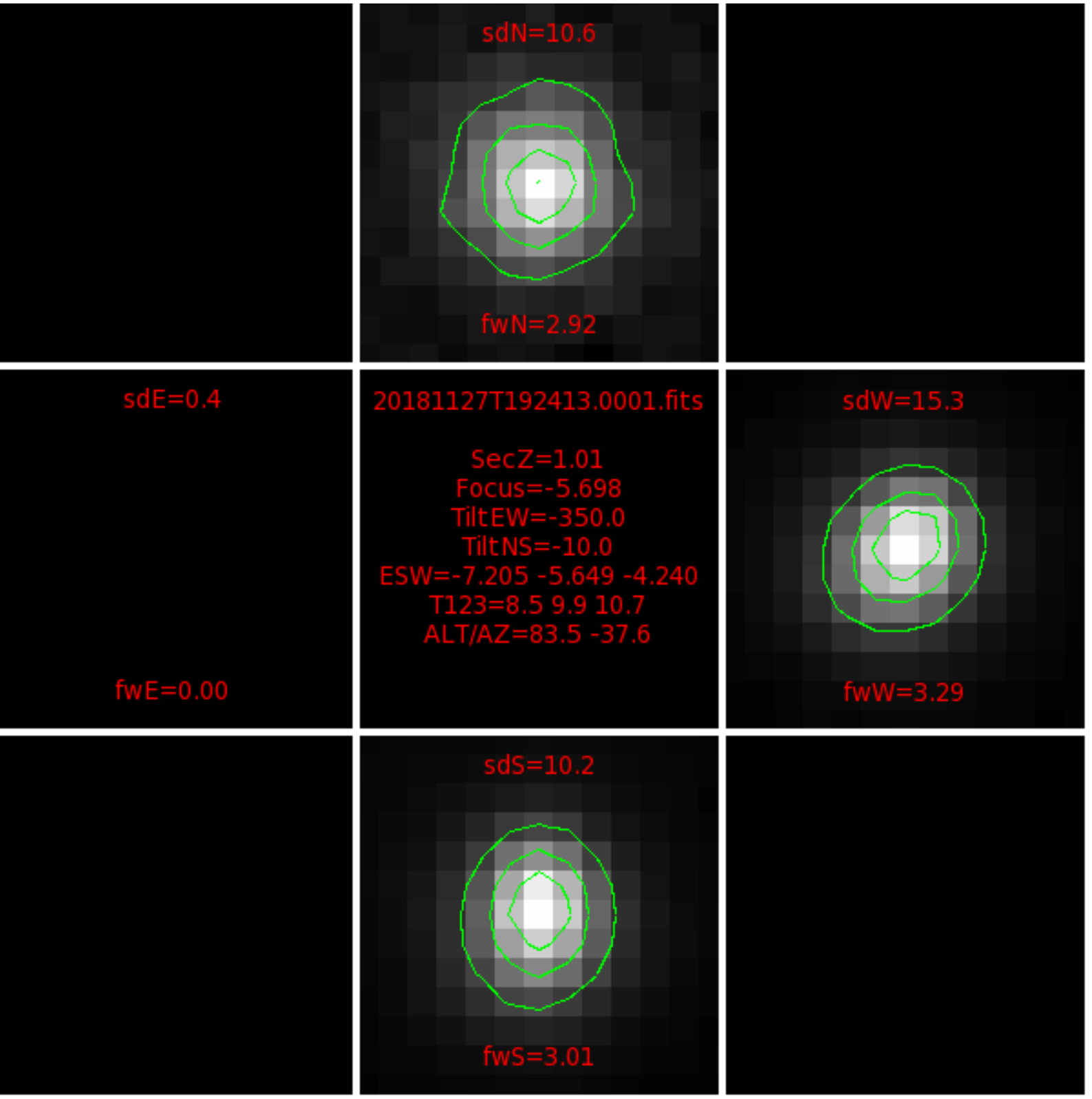
sdN=10.6
fwN=2.92
sdE=0.4
fwE=0.00
20181127T192413.0001.fits
SecZ=1.01
Focus=-5.698
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.205 -5.649 -4.240
T123=8.5 9.9 10.7
ALT/AZ=83.5 -37.6
sdW=15.3
fwW=3.29
sdS=10.2
fwS=3.01
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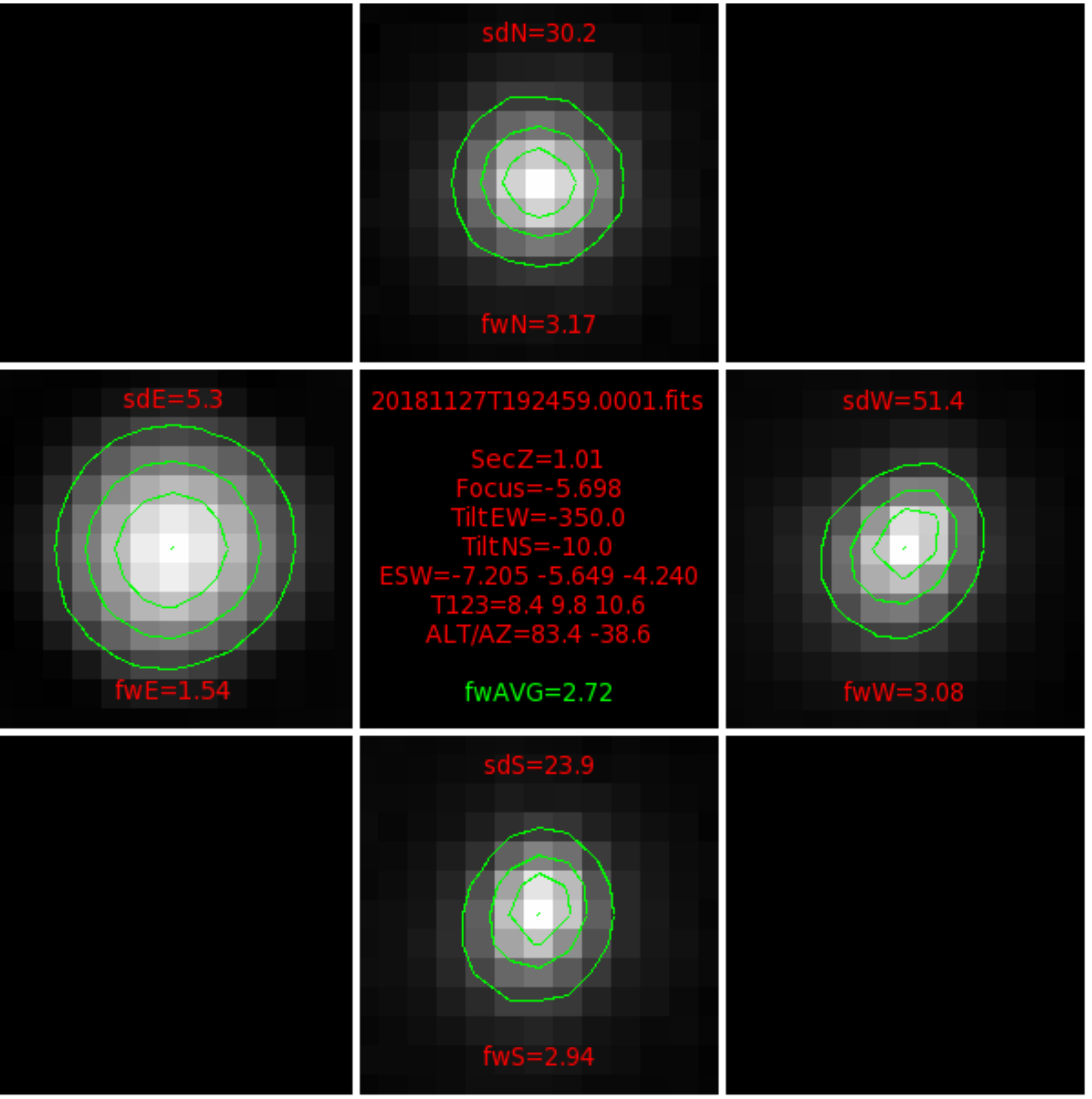
sdN=30.2
fwN=3.17
sdE=5.3
fwE=1.54
20181127T192459.0001.fits
SecZ=1.01
Focus=-5.698
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.205 -5.649 -4.240
T123=8.4 9.8 10.6
ALT/AZ=83.4 -38.6
fwAVG=2.72
sdW=51.4
fwW=3.08
sdS=23.9
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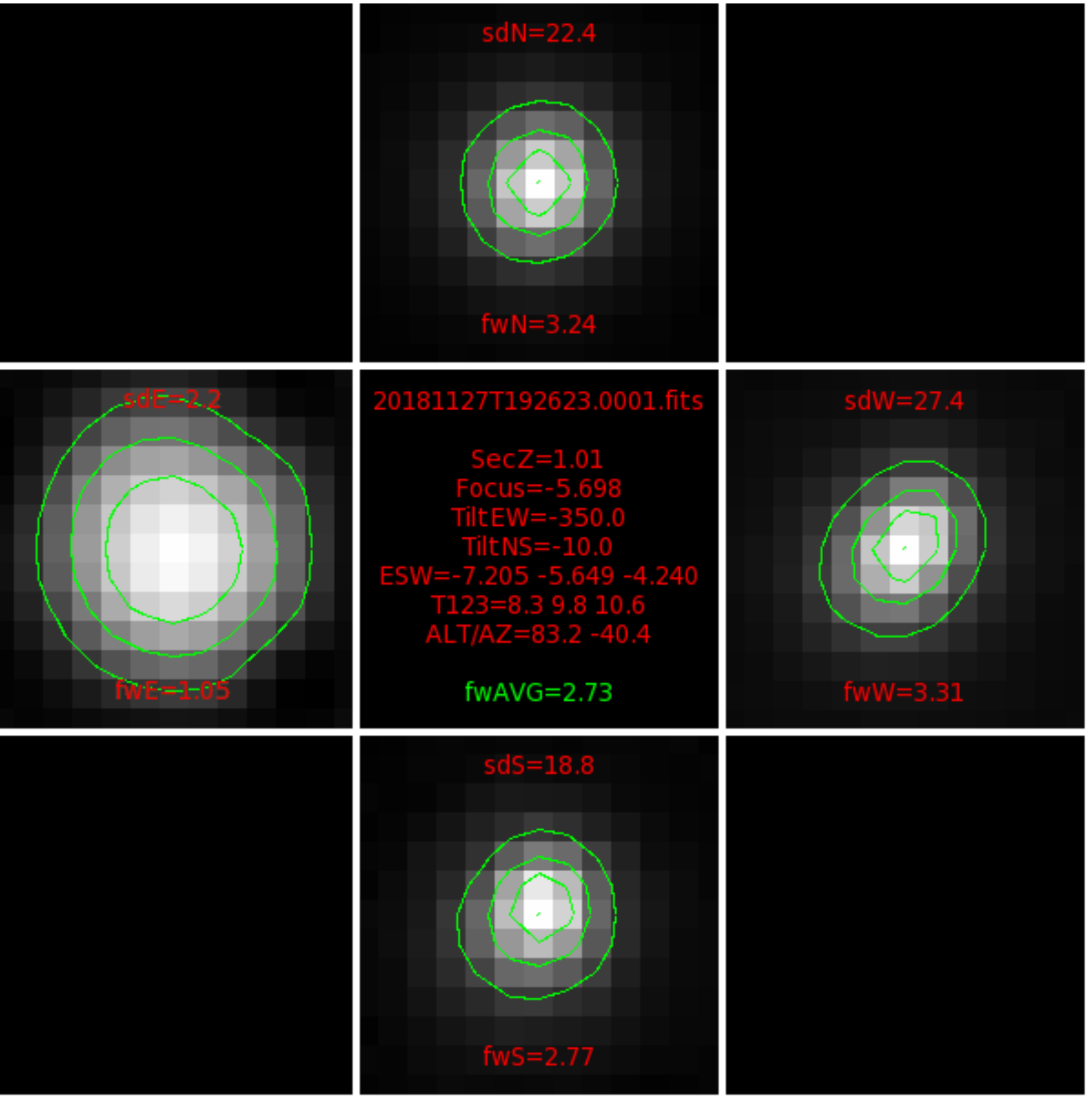
sdN=22.4
fwN=3.24
sdE=2.2
fwE=1.05
20181127T192623.0001.fits
SecZ=1.01
Focus=-5.698
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.205 -5.649 -4.240
T123=8.3 9.8 10.6
ALT/AZ=83.2 -40.4
fwAVG=2.73
sdW=27.4
fwW=3.31
sdS=18.8
fwS=2.77
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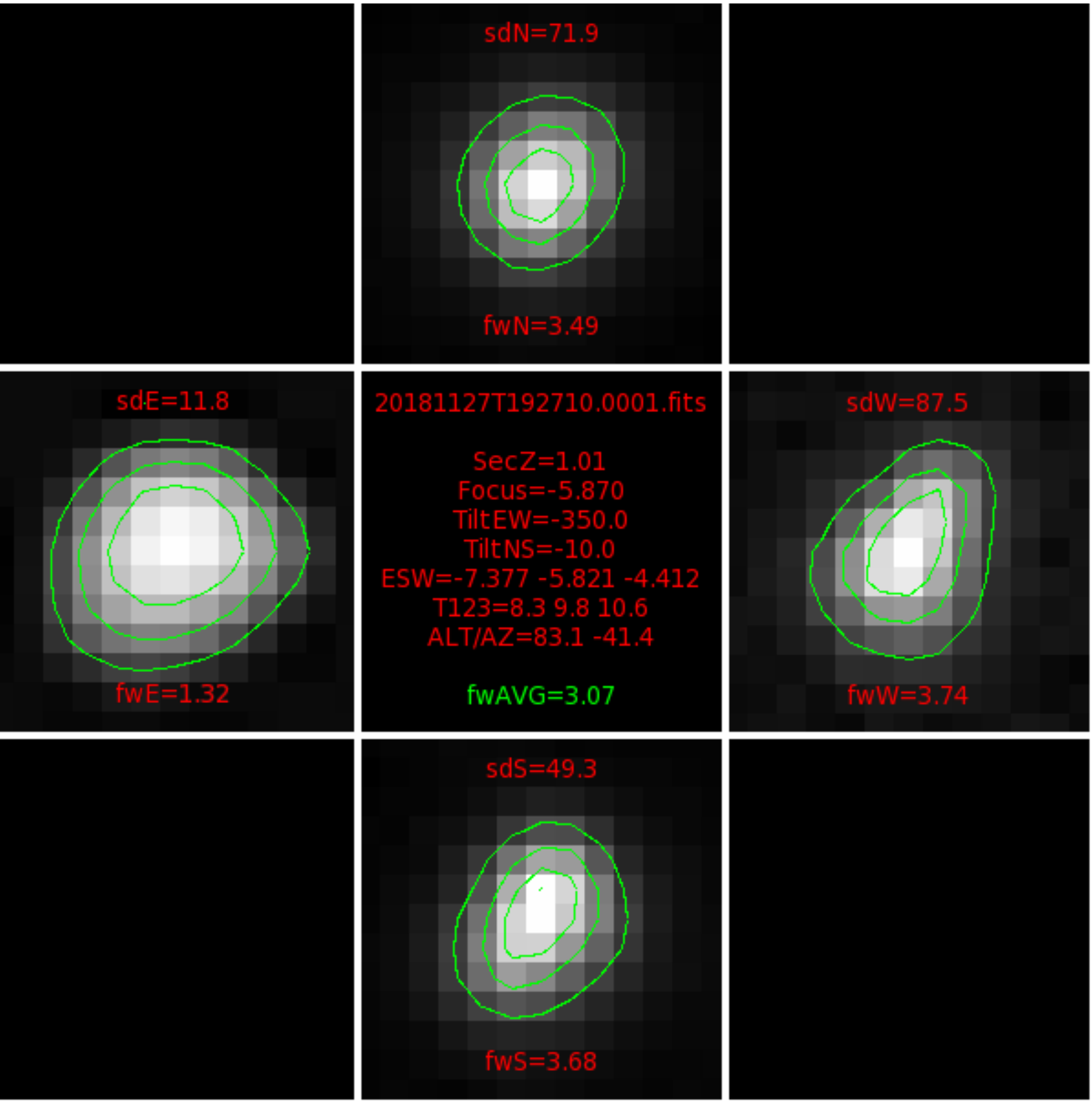
sdN=71.9
fwN=3.49
sdE=11.8
fwE=1.32
20181127T192710.0001.fits
SecZ=1.01
Focus=-5.870
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.377 -5.821 -4.412
T123=8.3 9.8 10.6
ALT/AZ=83.1 -41.4
fwAVG=3.07
sdW=87.5
fwW=3.74
sdS=49.3
fwS=3.68
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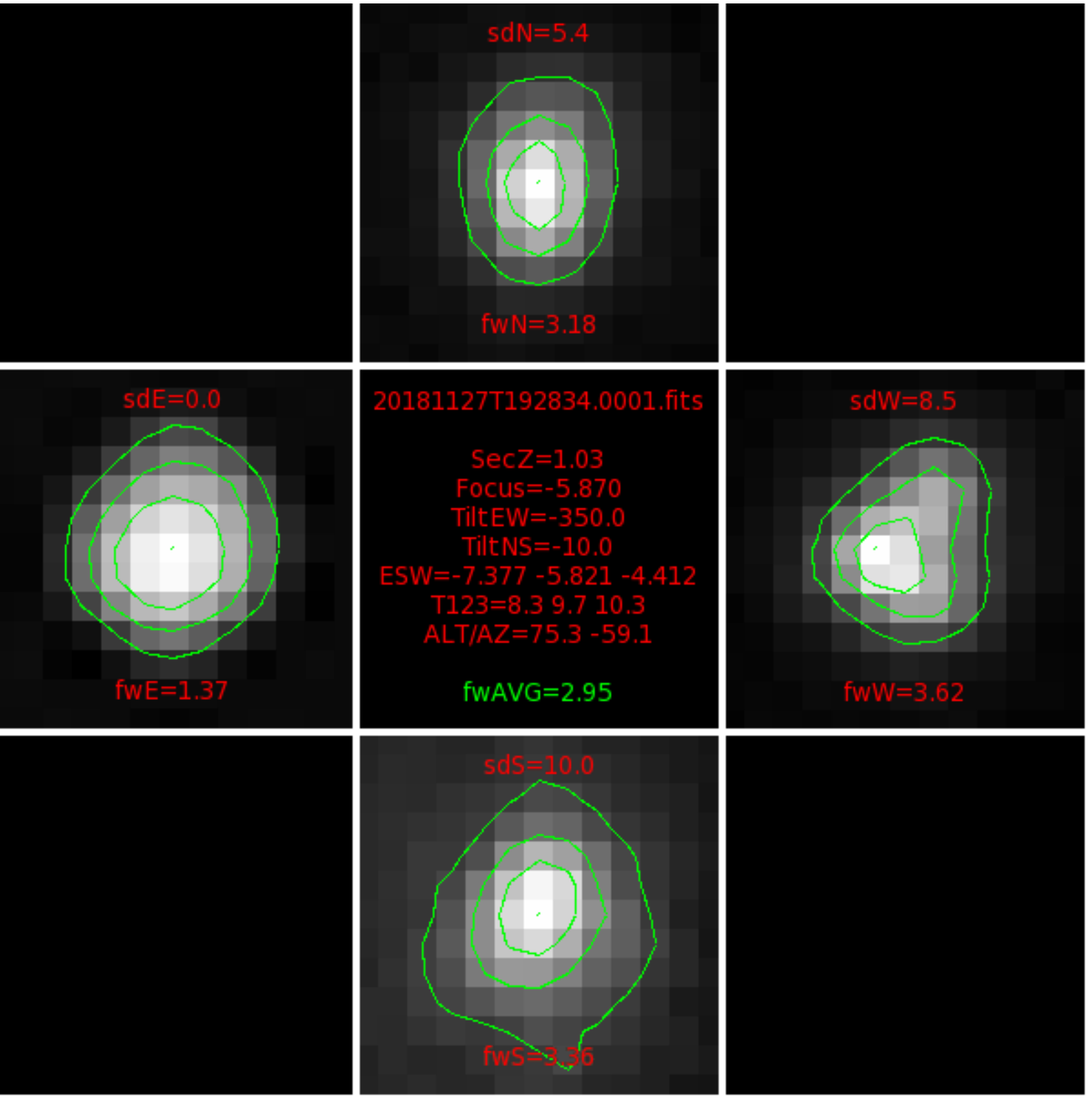
sdN=5.4
fwN=3.18
sdE=0.0
fwE=1.37
20181127T192834.0001.fits
SecZ=1.03
Focus=-5.870
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.377 -5.821 -4.412
T123=8.3 9.7 10.3
ALT/AZ=75.3 -59.1
fwAVG=2.95
sdW=8.5
fwW=3.62
sdS=10.0
fwS=3.36
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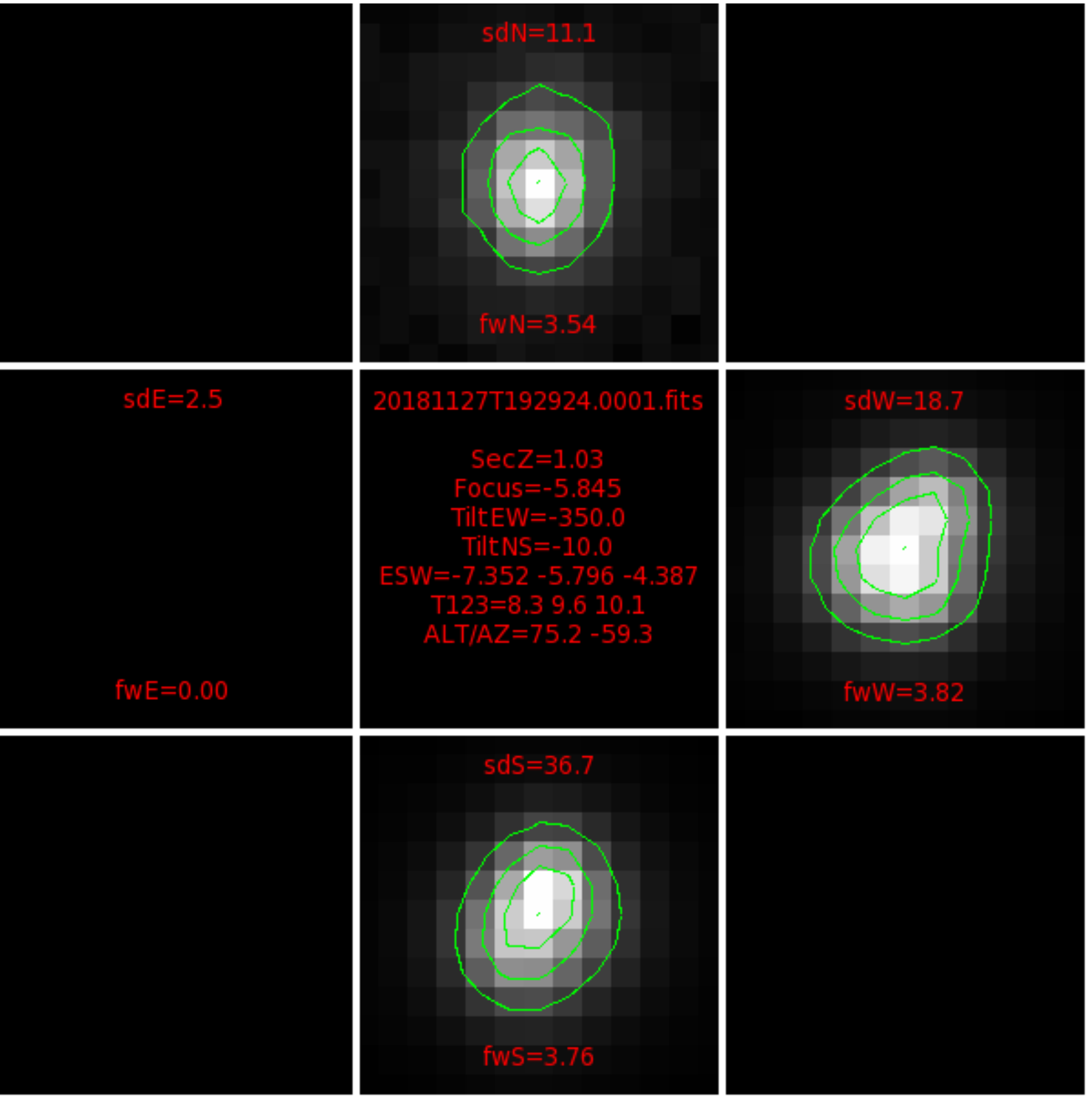
sdN=11.1
fwN=3.54
sdE=2.5
fwE=0.00
20181127T192924.0001.fits
SecZ=1.03
Focus=-5.845
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.352 -5.796 -4.387
T123=8.3 9.6 10.1
ALT/AZ=75.2 -59.3
sdW=18.7
fwW=3.82
sdS=36.7
fwS=3.76
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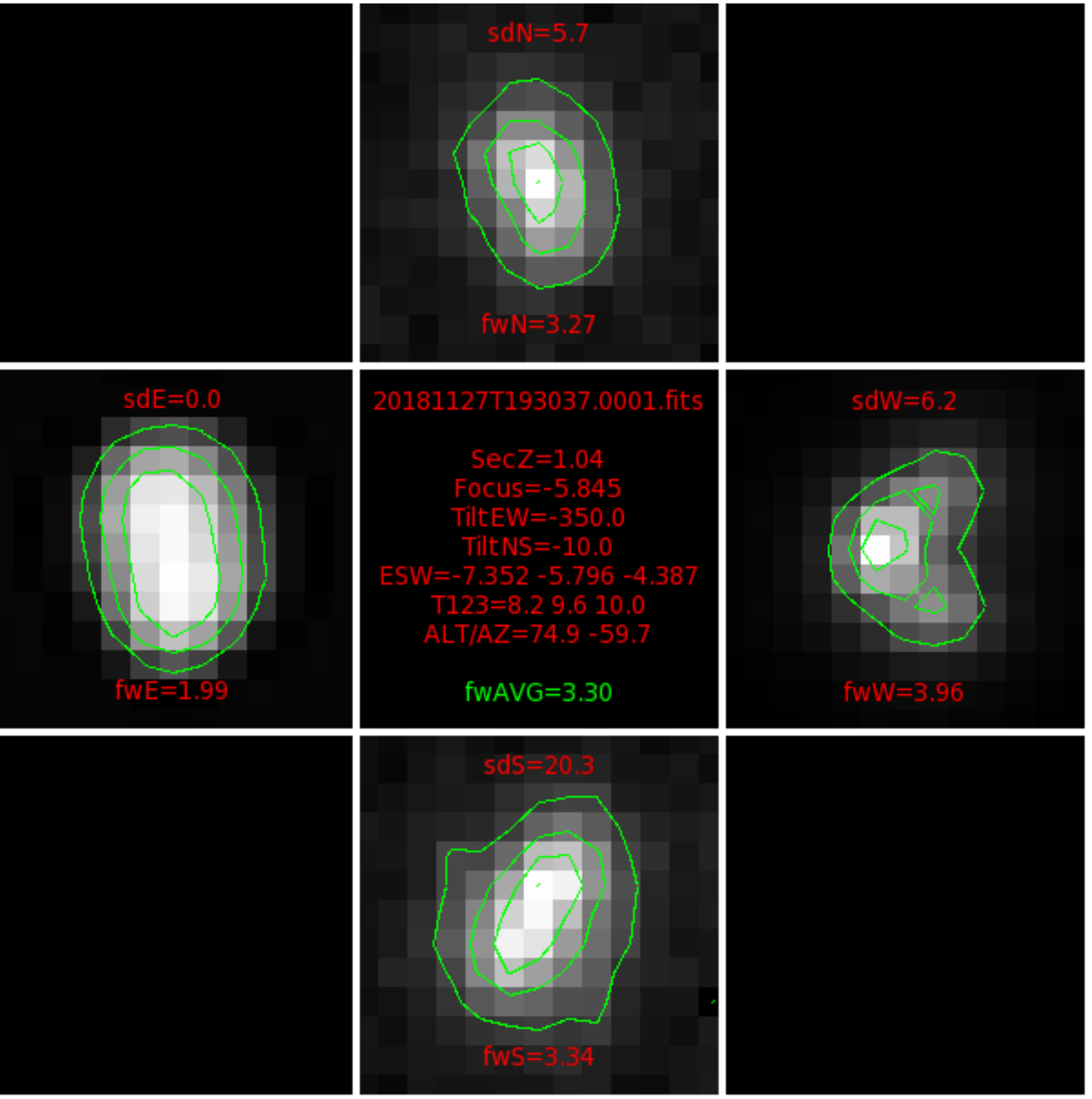
sdN=5.7
fwN=3.27
sdE=0.0
fwE=1.99
20181127T193037.0001.fits
SecZ=1.04
Focus=-5.845
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.352 -5.796 -4.387
T123=8.2 9.6 10.0
ALT/AZ=74.9 -59.7
fwAVG=3.30
sdW=6.2
fwW=3.96
sdS=20.3
fwS=3.34
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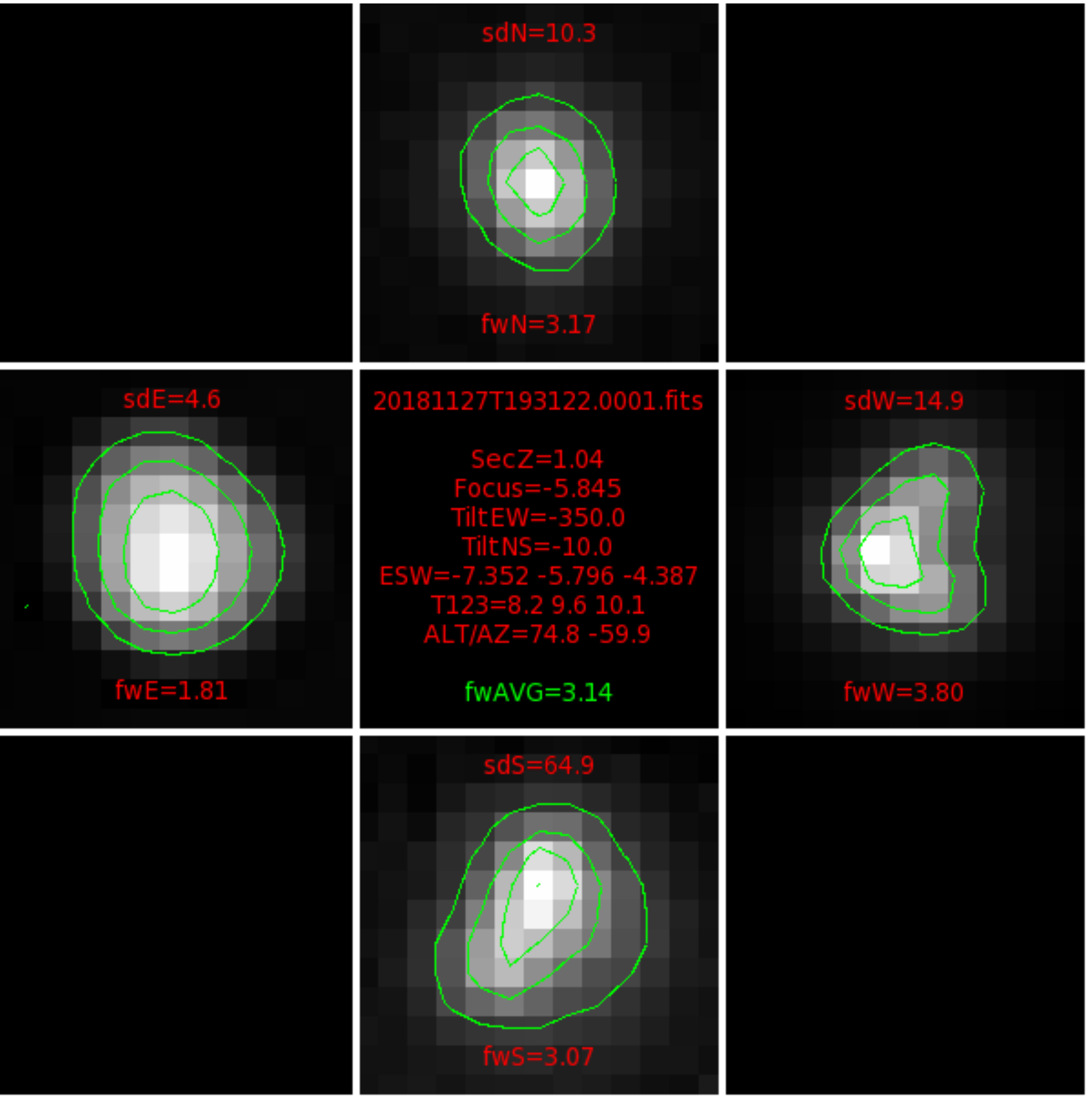
sdN=10.3
fwN=3.17
sdE=4.6
fwE=1.81
20181127T193122.0001.fits
SecZ=1.04
Focus=-5.845
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.352 -5.796 -4.387
T123=8.2 9.6 10.1
ALT/AZ=74.8 -59.9
fwAVG=3.14
sdW=14.9
fwW=3.80
sdS=64.9
fwS=3.07
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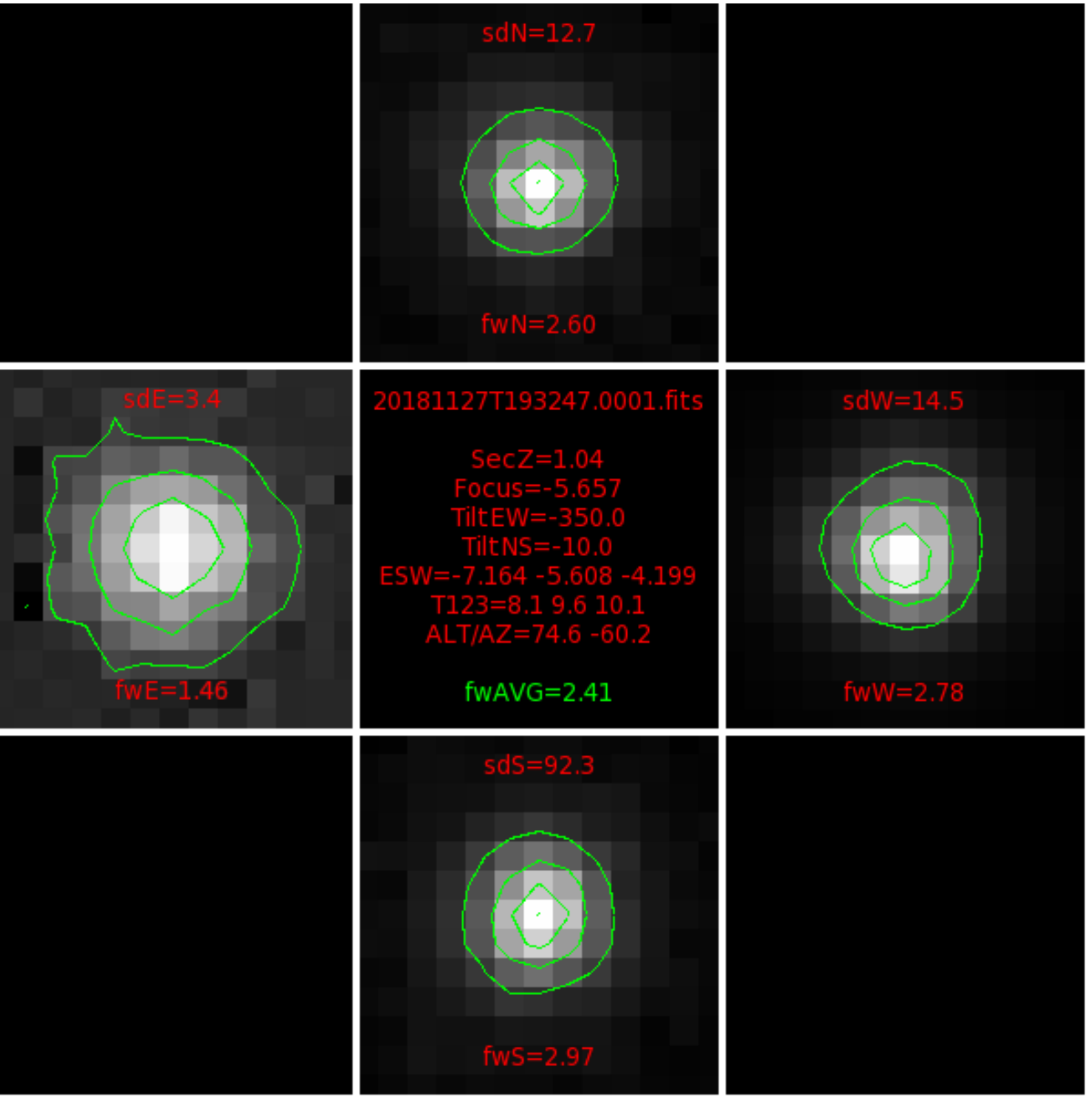
sdN=12.7
fwN=2.60
sdE=3.4
fwE=1.46
20181127T193247.0001.fits
SecZ=1.04
Focus=-5.657
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.164 -5.608 -4.199
T123=8.1 9.6 10.1
ALT/AZ=74.6 -60.2
fwAVG=2.41
sdW=14.5
fwW=2.78
sdS=92.3
fwS=2.97
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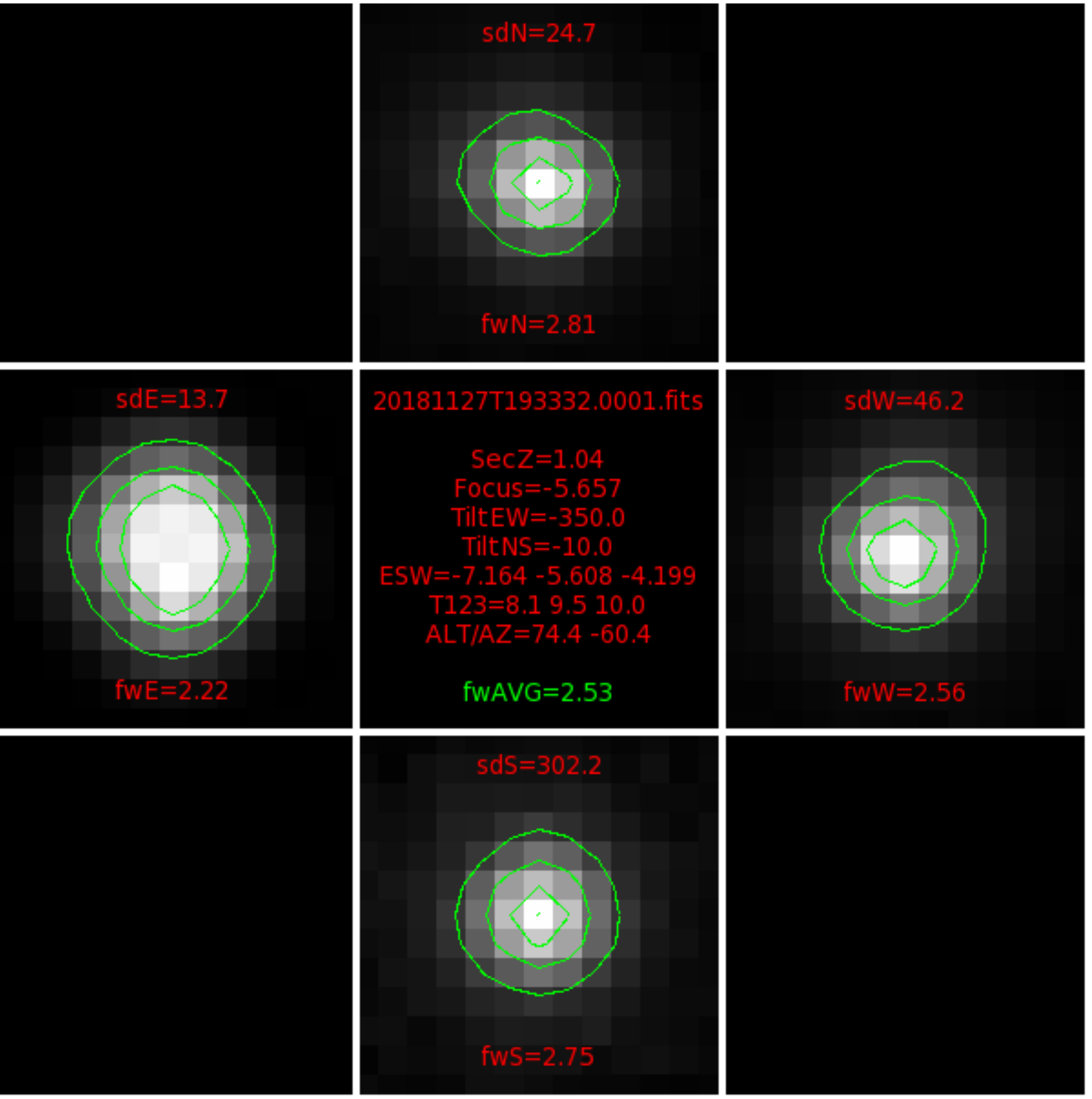
sdN=24.7
fwN=2.81
sdE=13.7
fwE=2.22
20181127T193332.0001.fits
SecZ=1.04
Focus=-5.657
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.164 -5.608 -4.199
T123=8.1 9.5 10.0
ALT/AZ=74.4 -60.4
fwAVG=2.53
sdW=46.2
fwW=2.56
sdS=302.2
fwS=2.75
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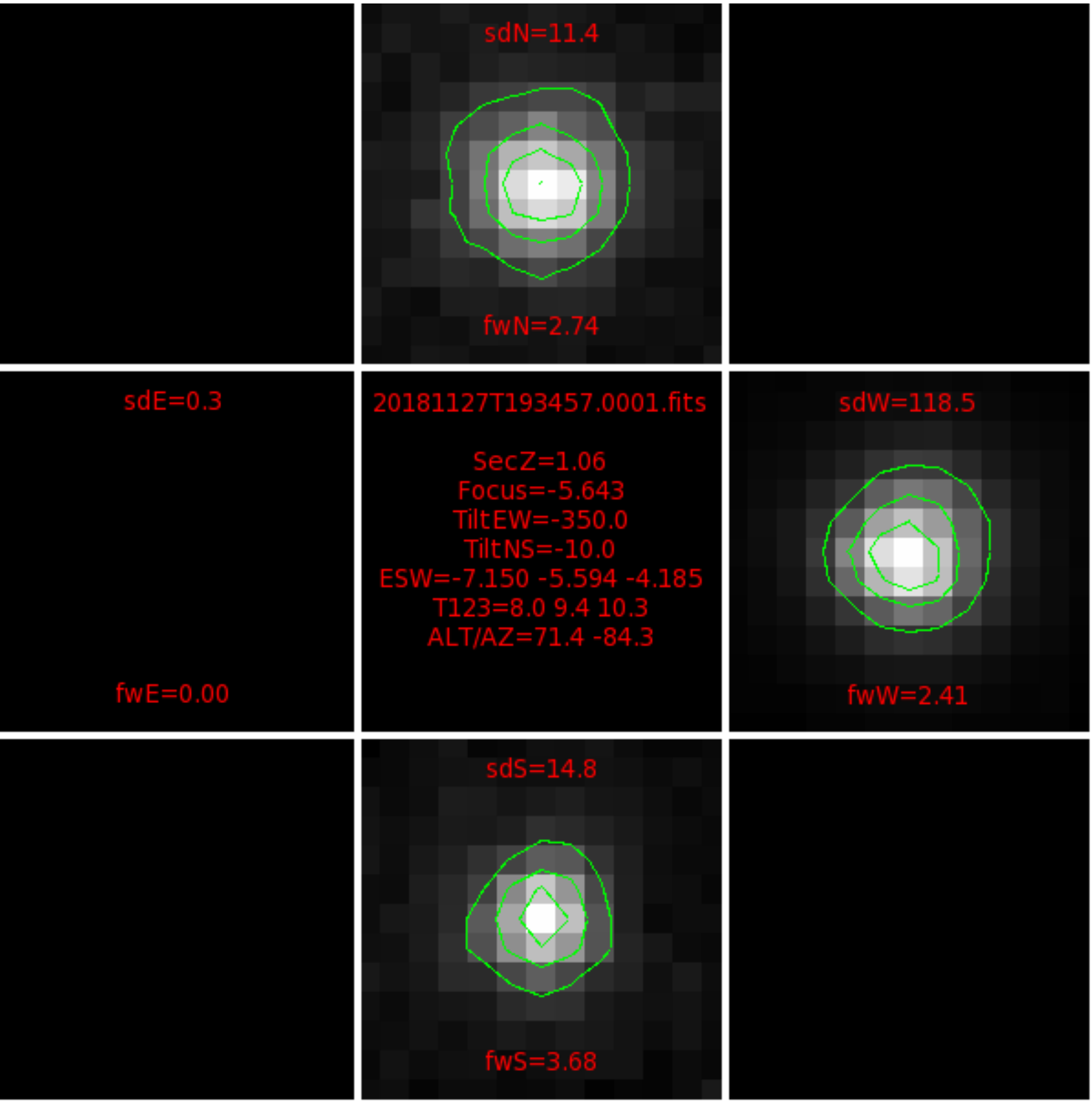
sdN=11.4
fwN=2.74
sdE=0.3
fwE=0.00
20181127T193457.0001.fits
SecZ=1.06
Focus=-5.643
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.150 -5.594 -4.185
T123=8.0 9.4 10.3
ALT/AZ=71.4 -84.3
sdW=118.5
fwW=2.41
sdS=14.8
fwS=3.68
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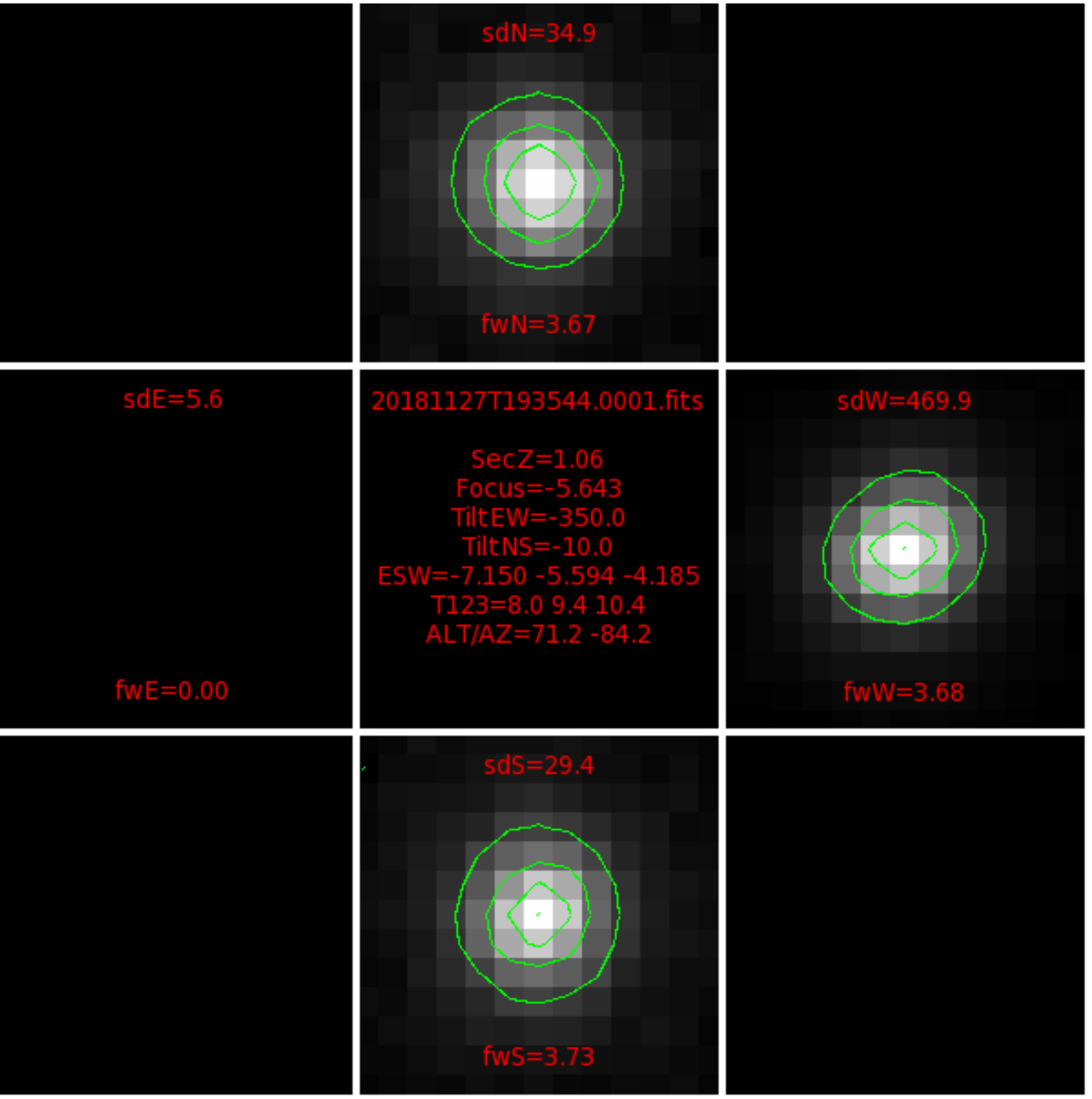
sdN=34.9
fwN=3.67
sdE=5.6
fwE=0.00
20181127T193544.0001.fits
SecZ=1.06
Focus=-5.643
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.150 -5.594 -4.185
T123=8.0 9.4 10.4
ALT/AZ=71.2 -84.2
sdW=469.9
fwW=3.68
sdS=29.4
fwS=3.73
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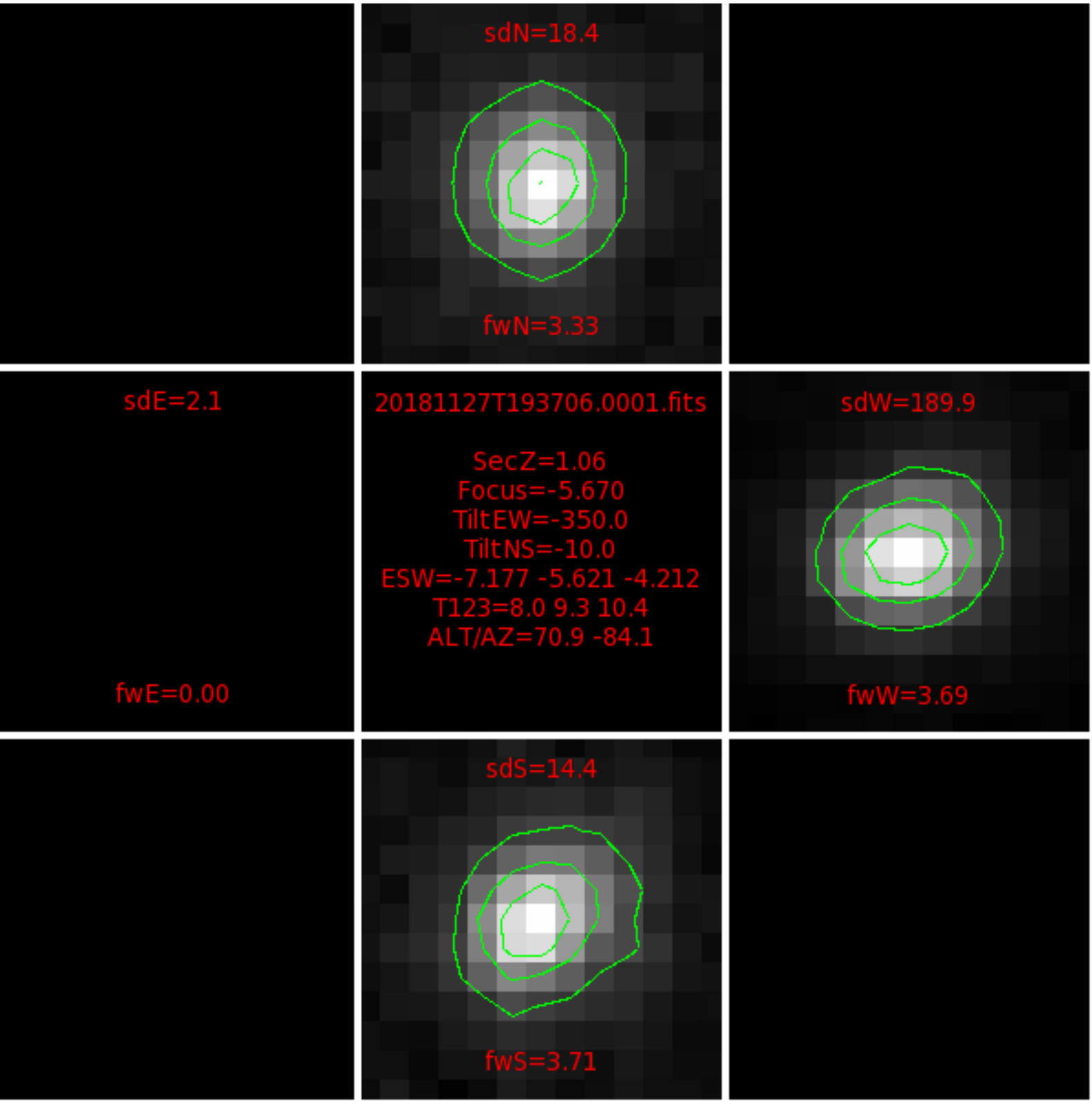
sdN=18.4
fwN=3.33
sdE=2.1
fwE=0.00
20181127T193706.0001.fits
SecZ=1.06
Focus=-5.670
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.177 -5.621 -4.212
T123=8.0 9.3 10.4
ALT/AZ=70.9 -84.1
sdW=189.9
fwW=3.69
sdS=14.4
fwS=3.71
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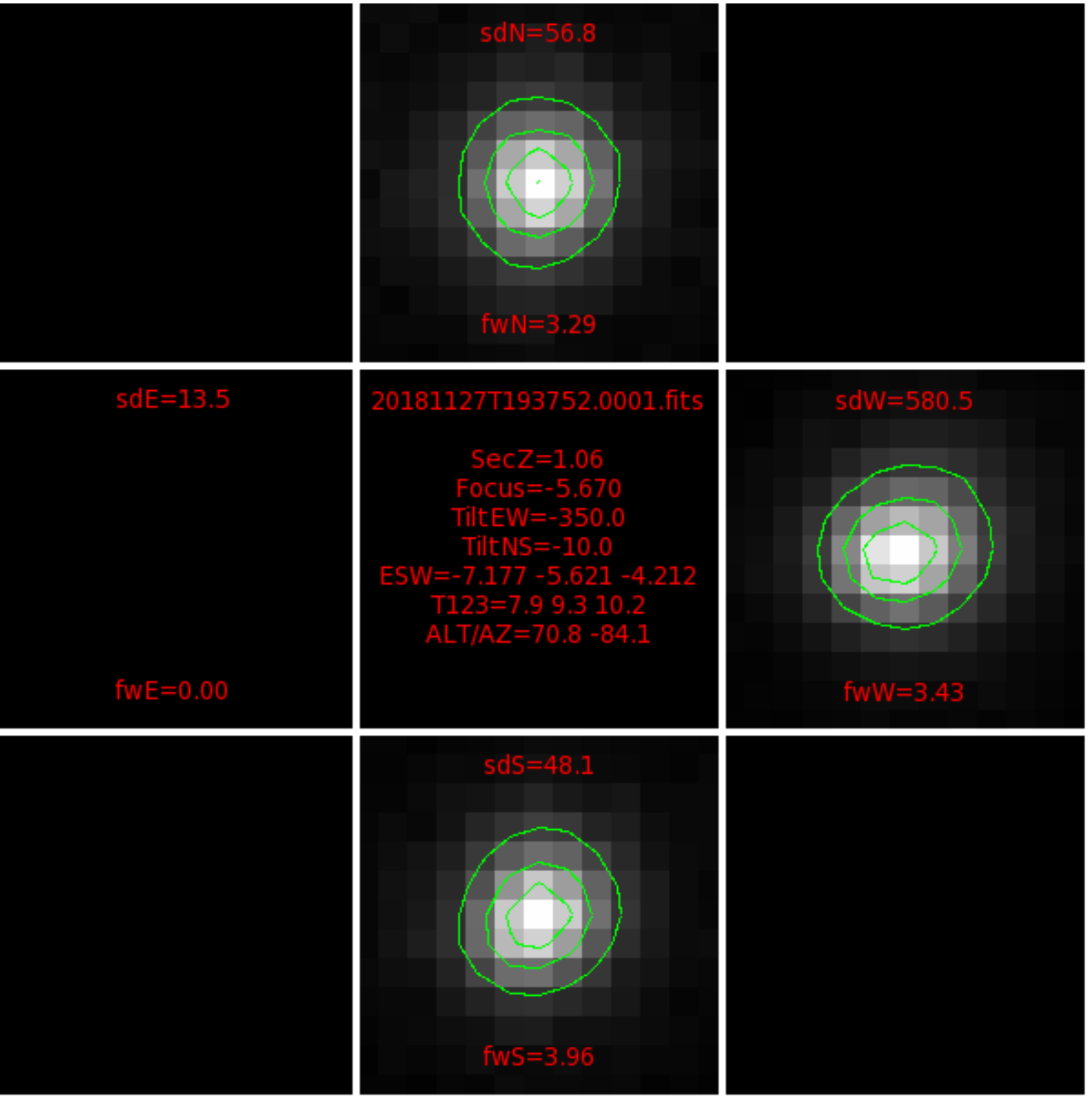
sdN=56.8
fwN=3.29
sdE=13.5
fwE=0.00
20181127T193752.0001.fits
SecZ=1.06
Focus=-5.670
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.177 -5.621 -4.212
T123=7.9 9.3 10.2
ALT/AZ=70.8 -84.1
sdW=580.5
fwW=3.43
sdS=48.1
fwS=3.96
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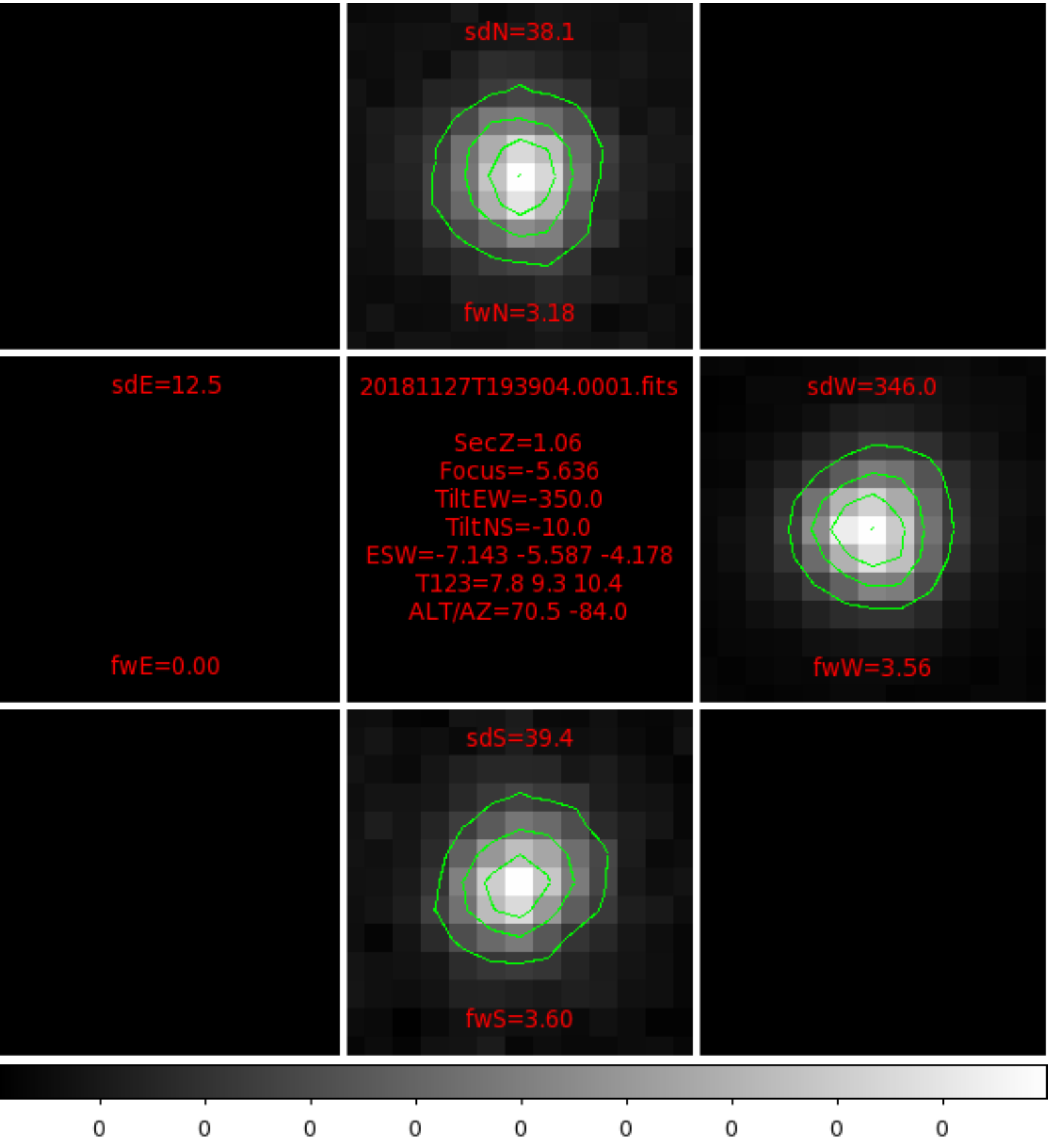
sdN=38.1
fwN=3.18
sdE=12.5
fwE=0.00
20181127T193904.0001.fits
SecZ=1.06
Focus=-5.636
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.143 -5.587 -4.178
T123=7.8 9.3 10.4
ALT/AZ=70.5 -84.0
sdW=346.0
fwW=3.56
sdS=39.4
fwS=3.60
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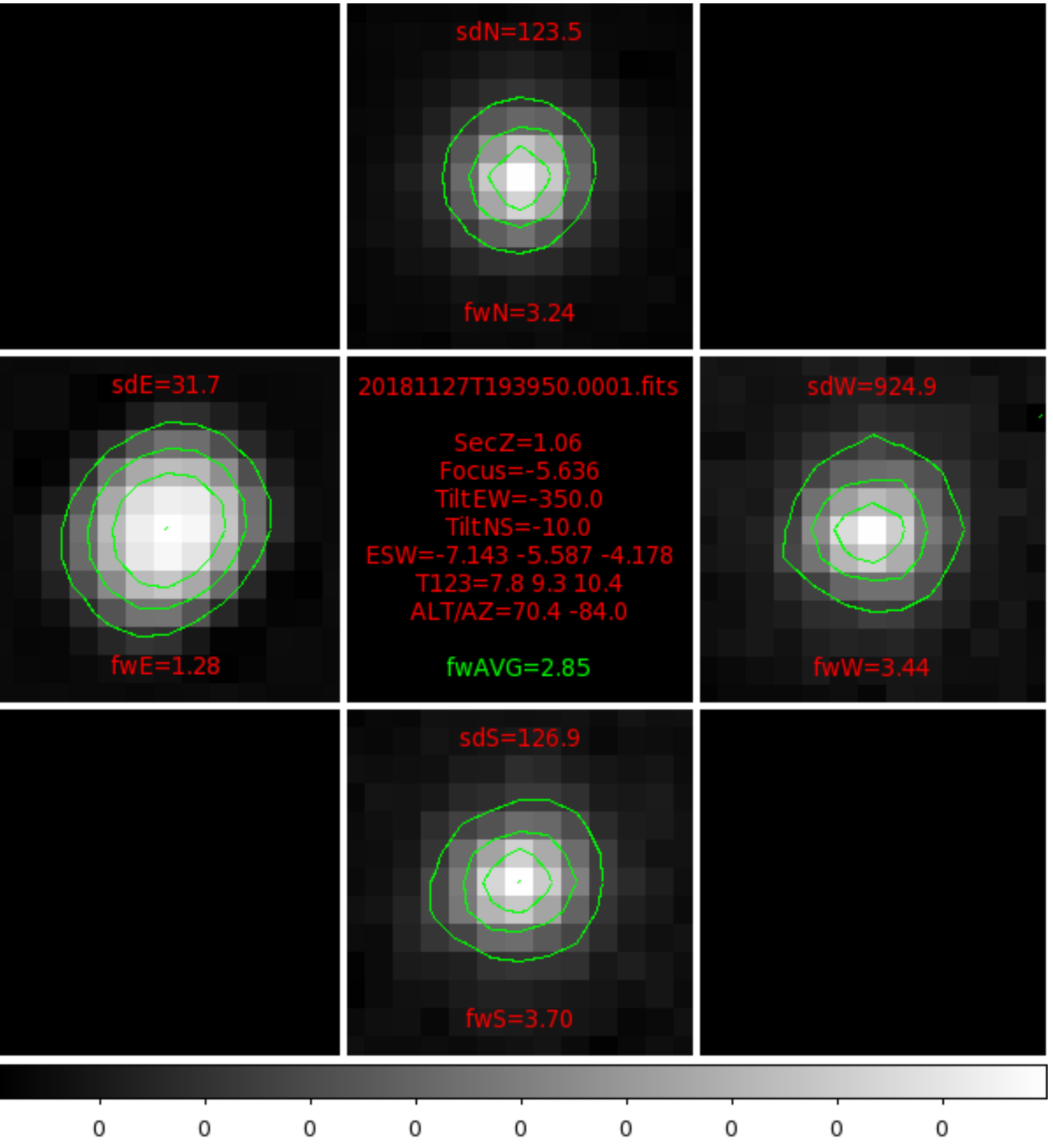
sdN=123.5
fwN=3.24
sdE=31.7
fwE=1.28
20181127T193950.0001.fits
SecZ=1.06
Focus=-5.636
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.143 -5.587 -4.178
T123=7.8 9.3 10.4
ALT/AZ=70.4 -84.0
fwAVG=2.85
sdW=924.9
fwW=3.44
sdS=126.9
fwS=3.70
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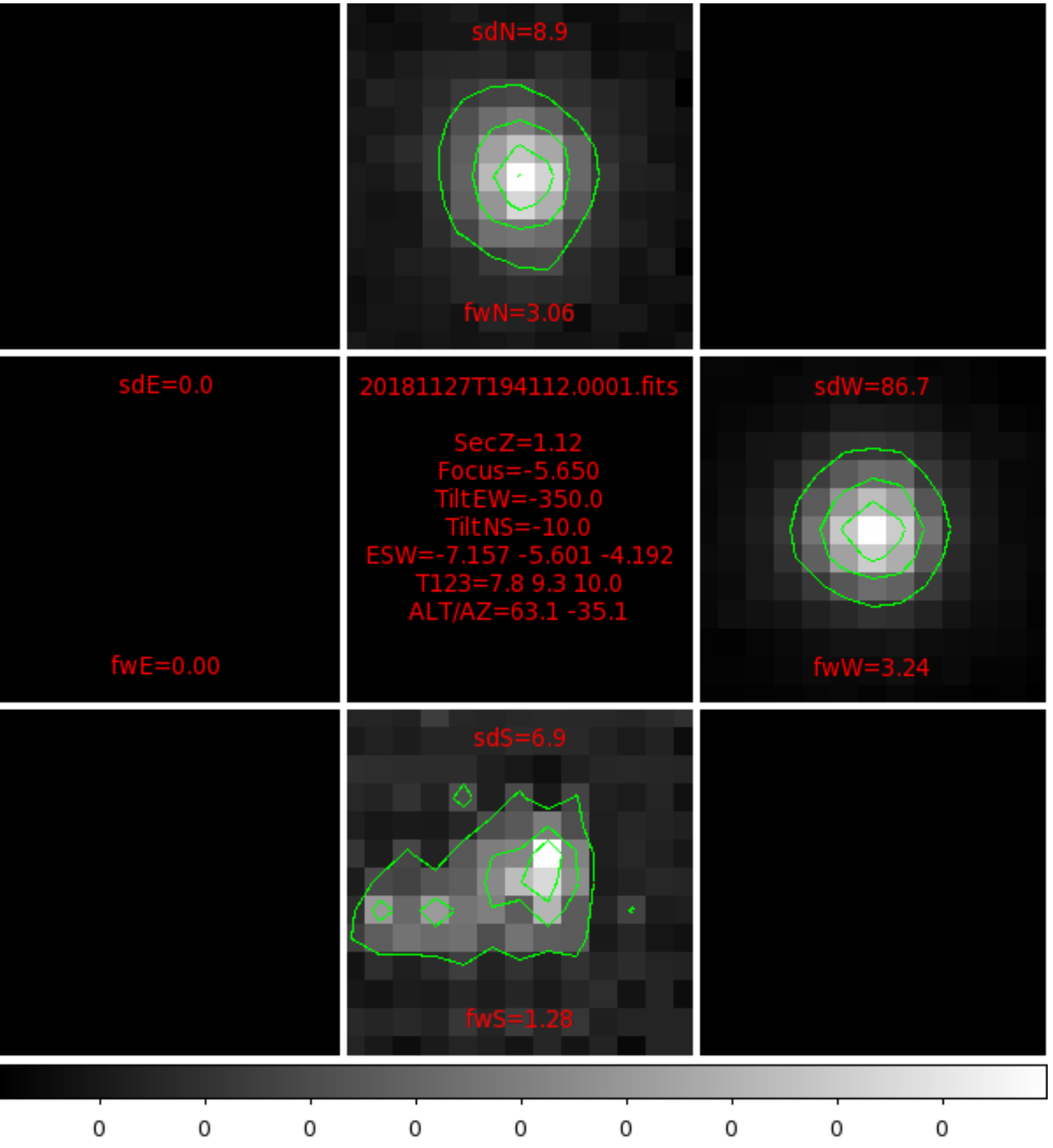
sdN=8.9
fwN=3.06
sdE=0.0
fwE=0.00
20181127T194112.0001.fits
SecZ=1.12
Focus=-5.650
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.157 -5.601 -4.192
T123=7.8 9.3 10.0
ALT/AZ=63.1 -35.1
sdW=86.7
fwW=3.24
sdS=6.9
fwS=1.28
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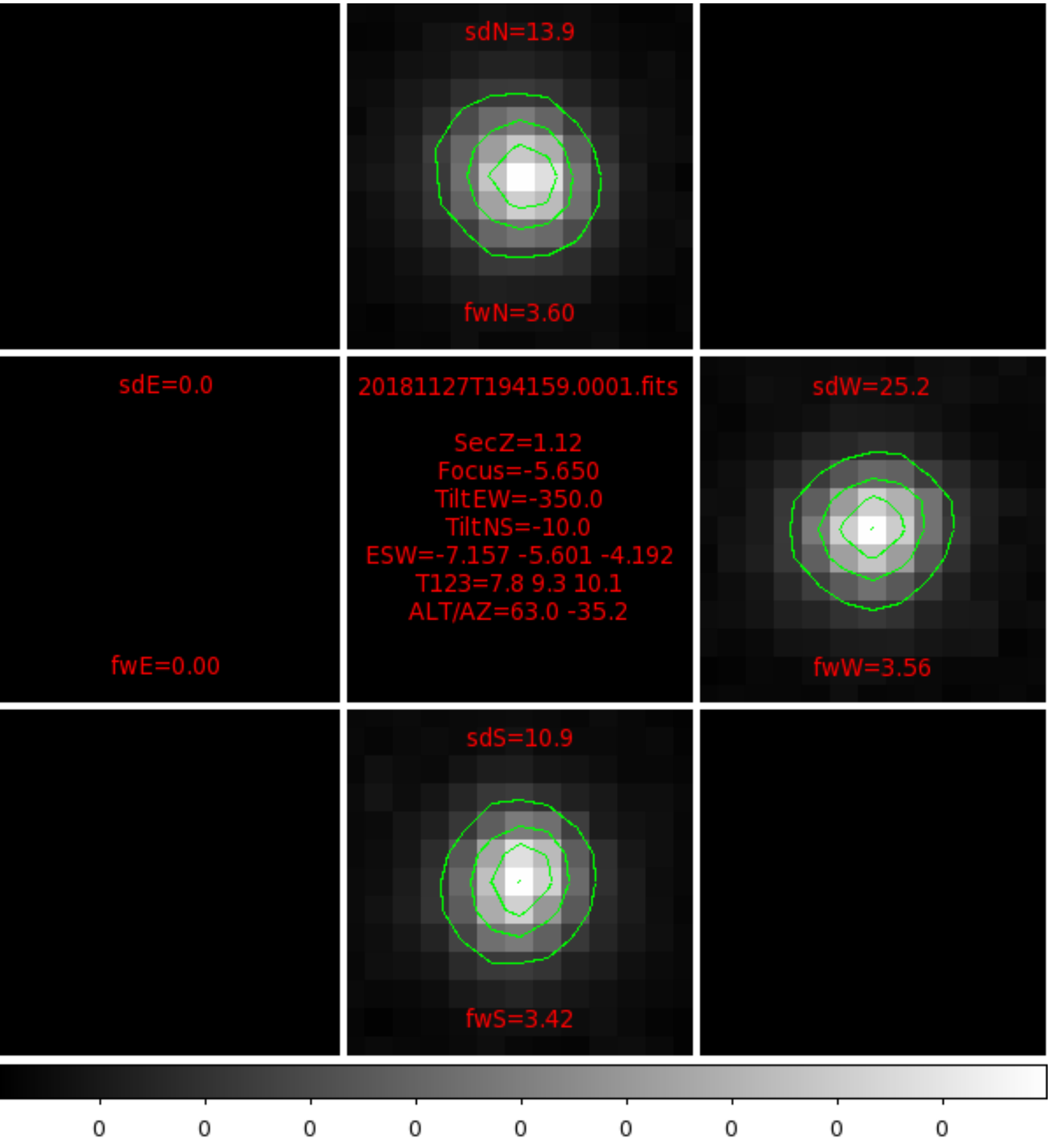
sdN=13.9
fwN=3.60
sdE=0.0
fwE=0.00
20181127T194159.0001.fits
SecZ=1.12
Focus=-5.650
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.157 -5.601 -4.192
T123=7.8 9.3 10.1
ALT/AZ=63.0 -35.2
sdW=25.2
fwW=3.56
sdS=10.9
fwS=3.42
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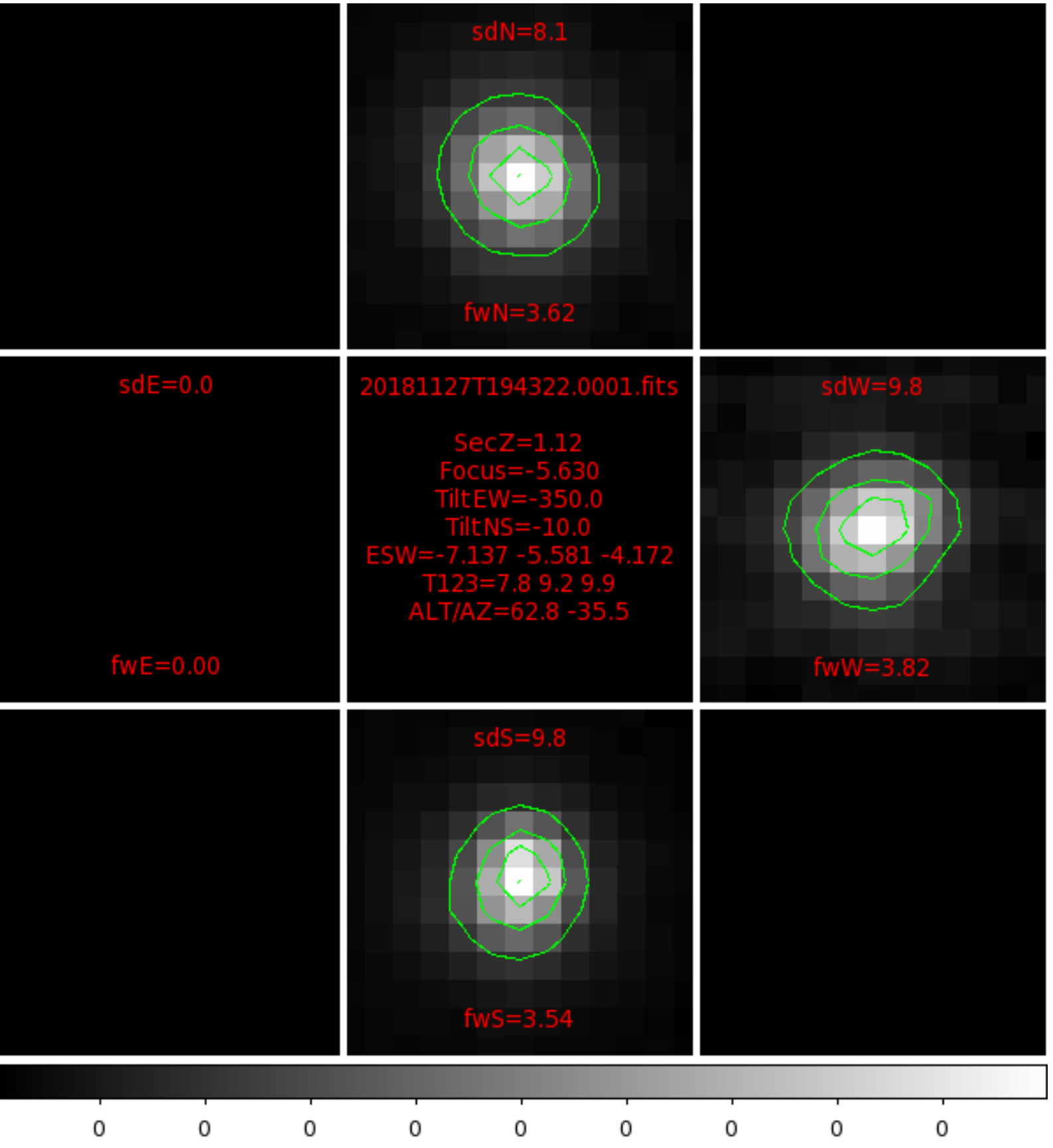
sdN=8.1
fwN=3.62
sdE=0.0
fwE=0.00
20181127T194322.0001.fits
SecZ=1.12
Focus=-5.630
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.137 -5.581 -4.172
T123=7.8 9.2 9.9
ALT/AZ=62.8 -35.5
sdW=9.8
fwW=3.82
sdS=9.8
fwS=3.54
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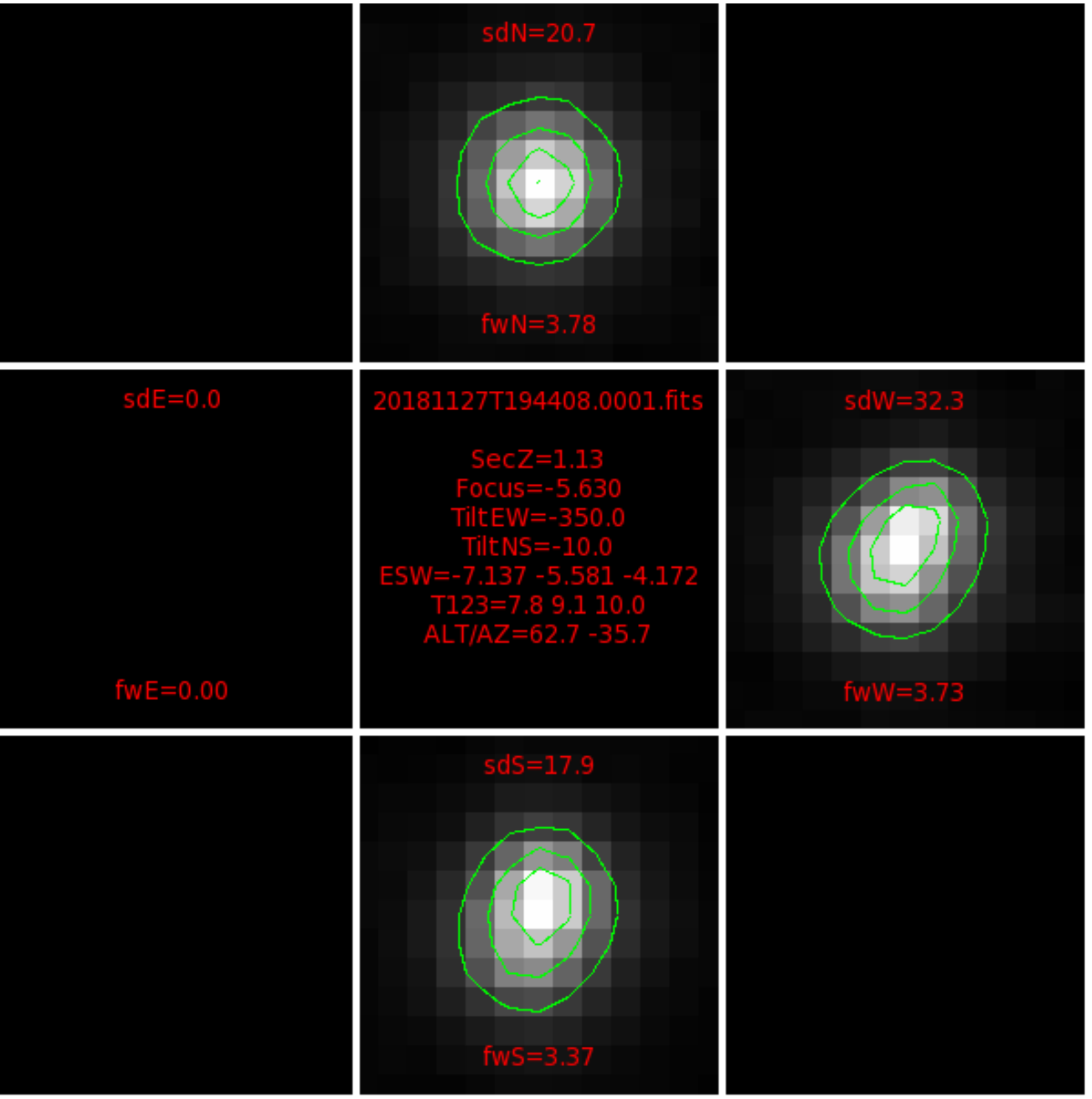
sdN=20.7
fwN=3.78
sdE=0.0
fwE=0.00
20181127T194408.0001.fits
SecZ=1.13
Focus=-5.630
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.137 -5.581 -4.172
T123=7.8 9.1 10.0
ALT/AZ=62.7 -35.7
sdW=32.3
fwW=3.73
sdS=17.9
fwS=3.37
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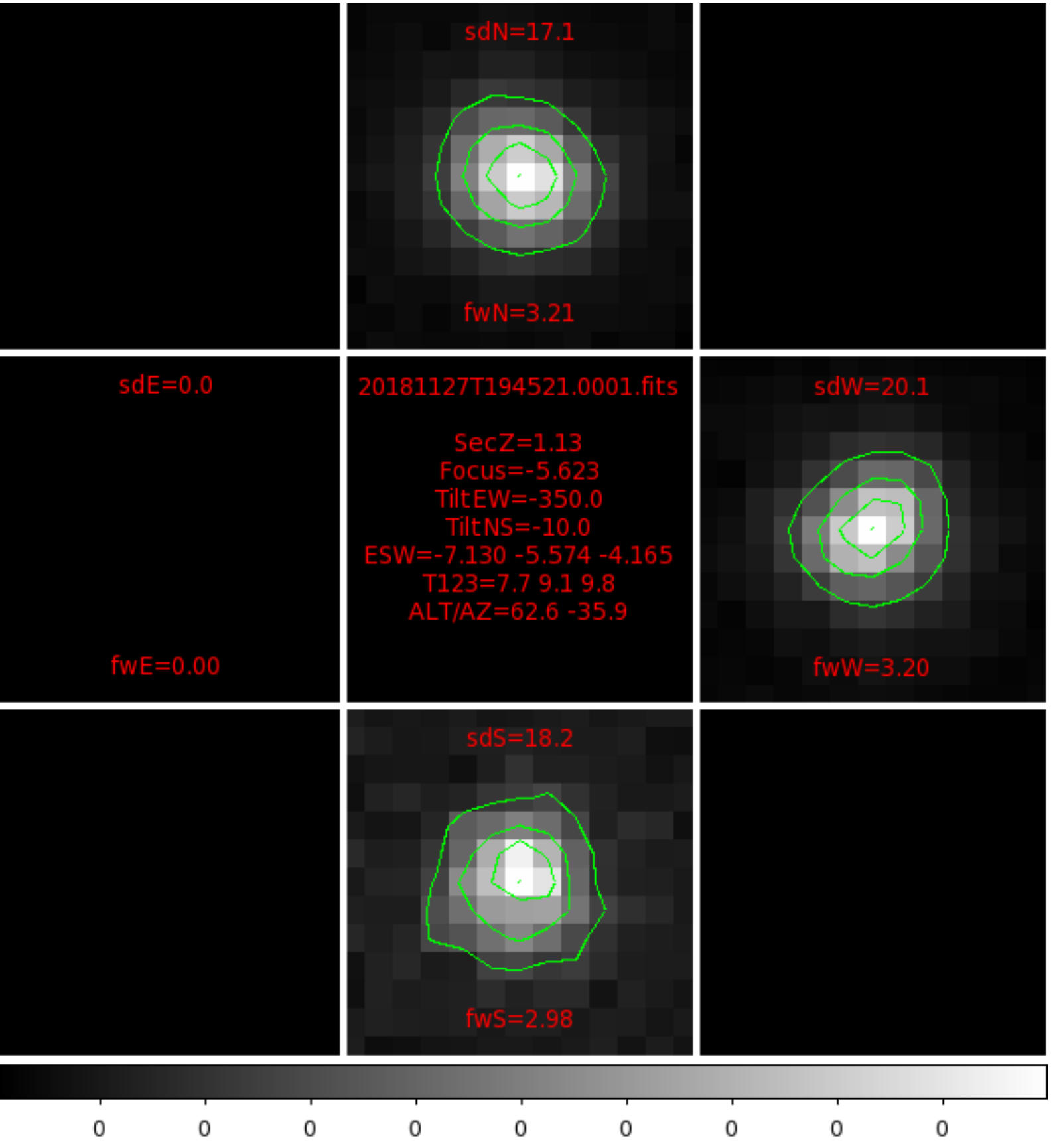
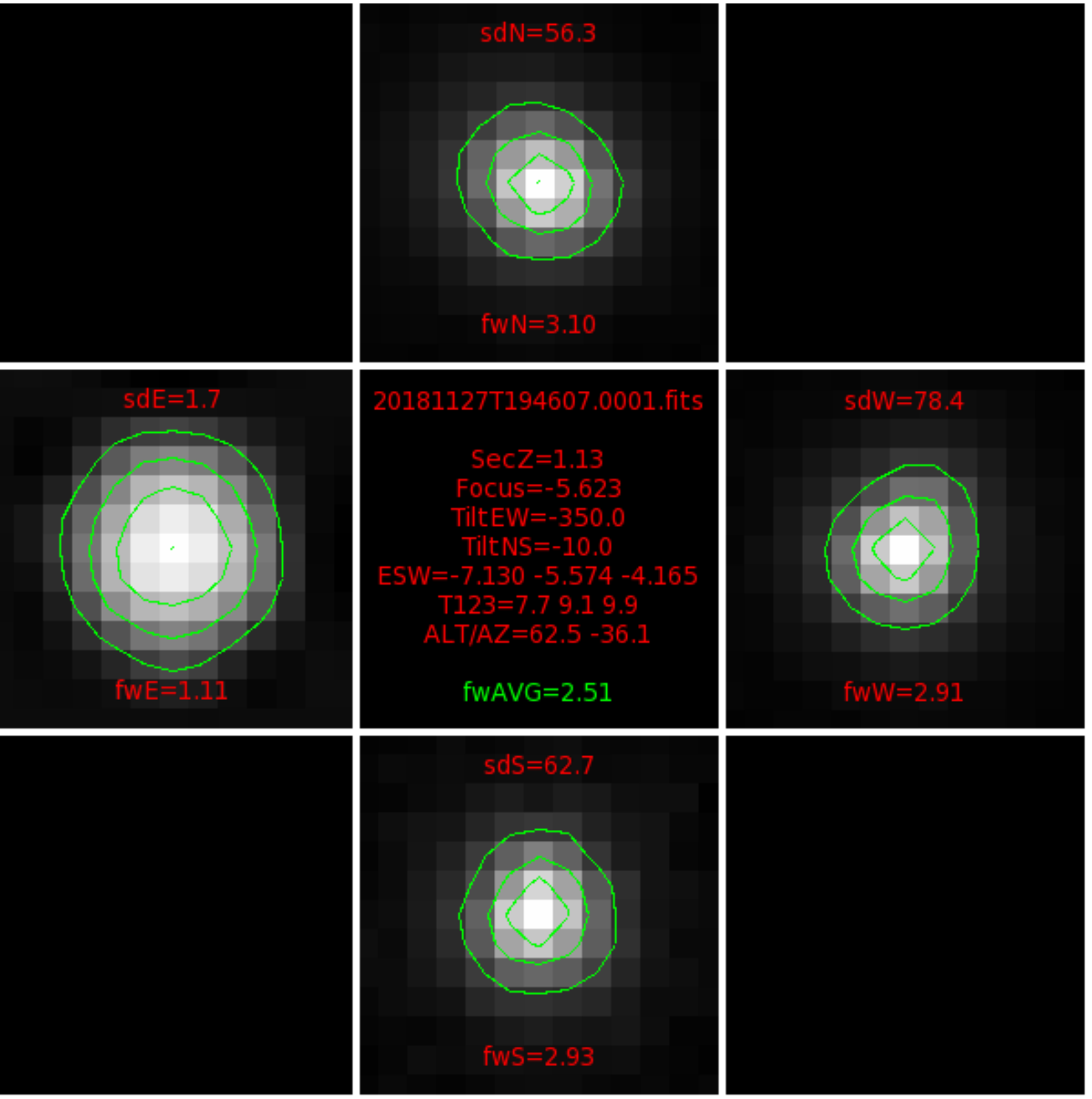

sdN=17.1
fwN=3.21
sdE=0.0
fwE=0.00
20181127T194521.0001.fits
SecZ=1.13
Focus=-5.623
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.130 -5.574 -4.165
T123=7.7 9.1 9.8
ALT/AZ=62.6 -35.9
sdW=20.1
fwW=3.20
sdS=18.2
fwS=2.98
0 0 0 0 0 0 0 0 0


sdN=56.3
fwN=3.10
sdE=1.7
fwE=1.11
20181127T194607.0001.fits
SecZ=1.13
Focus=-5.623
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.130 -5.574 -4.165
T123=7.7 9.1 9.9
ALT/AZ=62.5 -36.1
fwAVG=2.51
sdW=78.4
fwW=2.91
sdS=62.7
fwS=2.93
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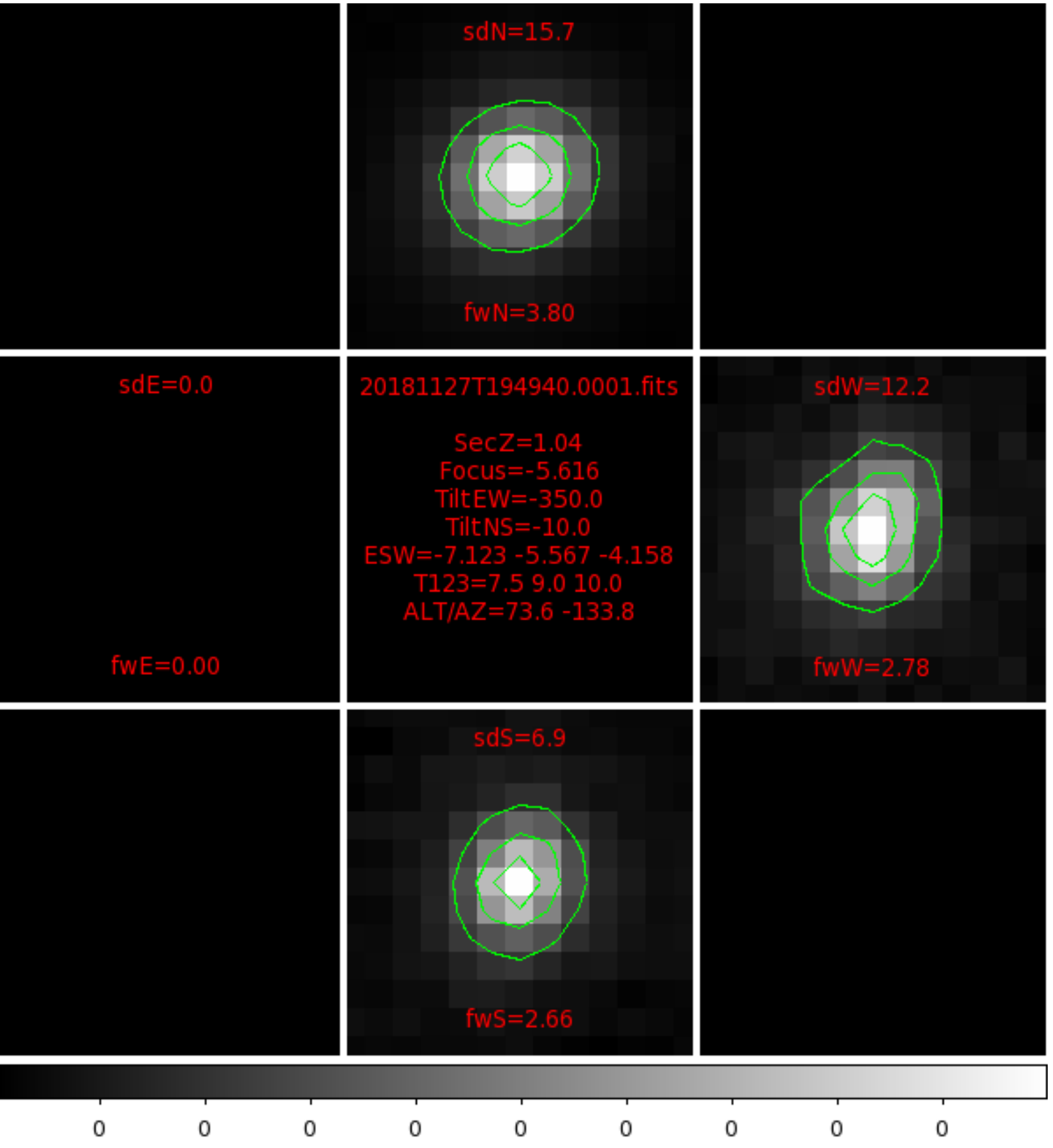
sdN=15.7
fwN=3.80
sdE=0.0
fwE=0.00
20181127T194940.0001.fits
SecZ=1.04
Focus=-5.616
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.123 -5.567 -4.158
T123=7.5 9.0 10.0
ALT/AZ=73.6 -133.8
sdW=12.2
fwW=2.78
sdS=6.9
fwS=2.66
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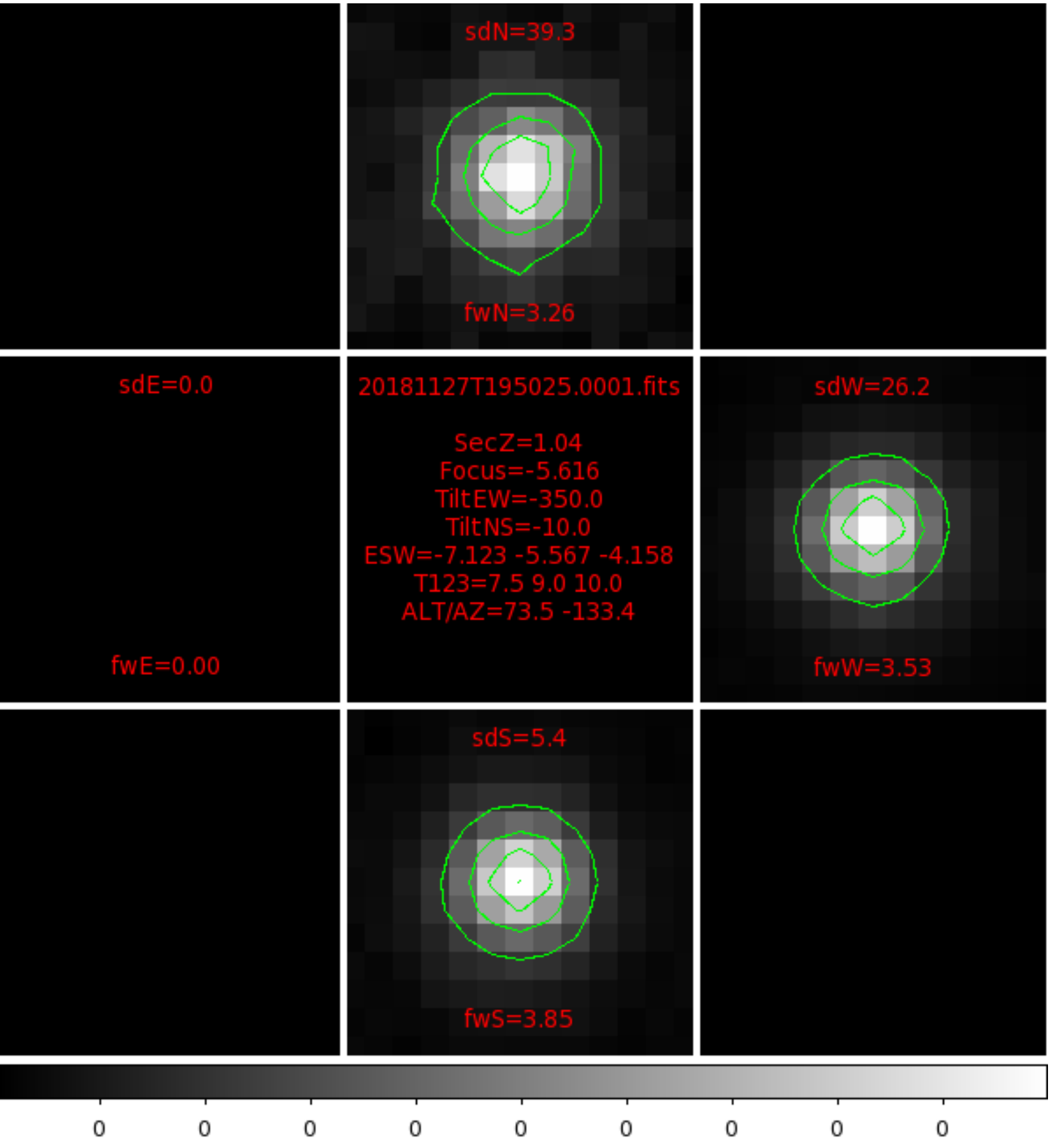
sdN=39.3
fwN=3.26
sdE=0.0
fwE=0.00
20181127T195025.0001.fits
SecZ=1.04
Focus=-5.616
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.123 -5.567 -4.158
T123=7.5 9.0 10.0
ALT/AZ=73.5 -133.4
sdW=26.2
fwW=3.53
sdS=5.4
fwS=3.85
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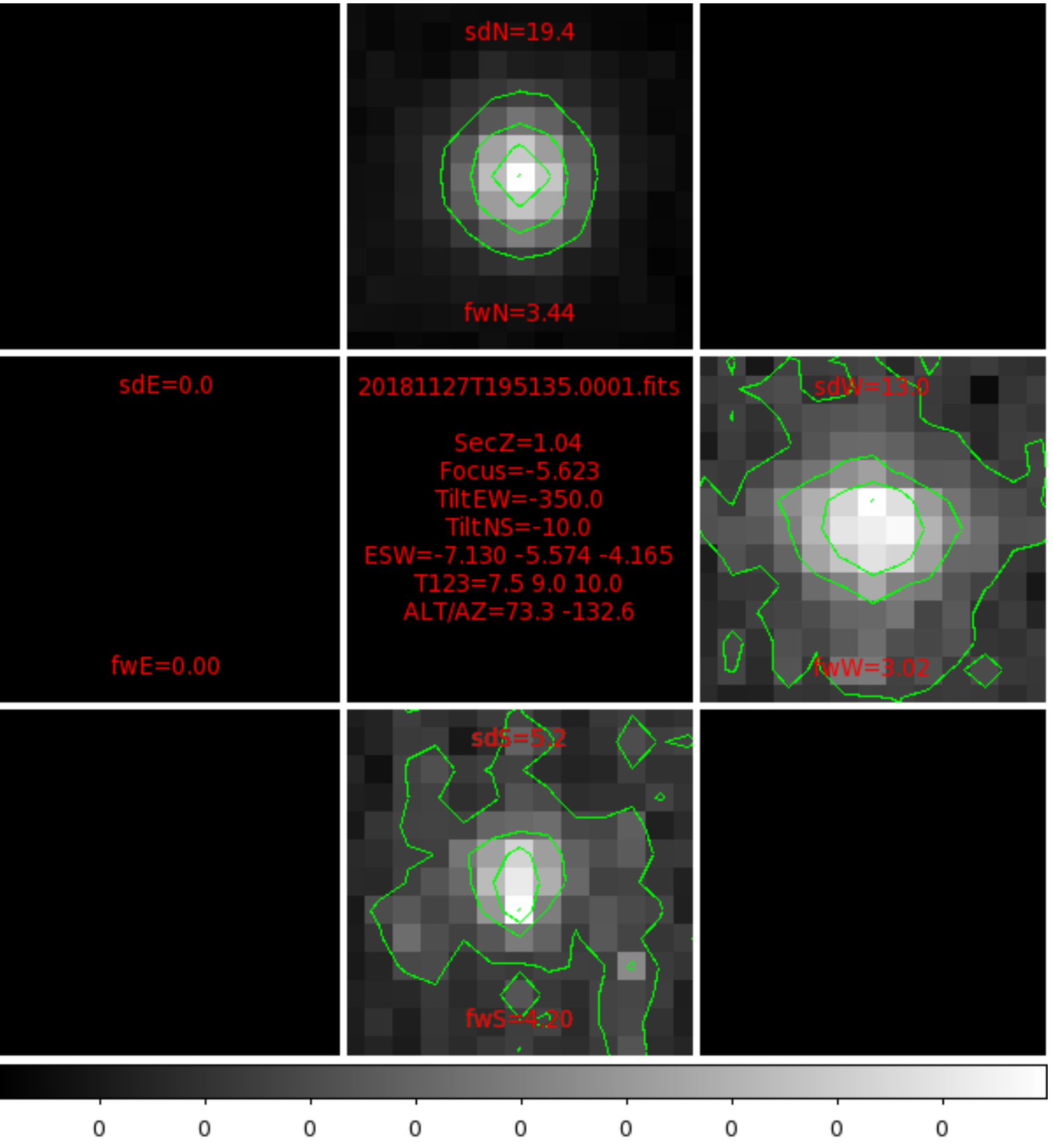
sdN=19.4
fwN=3.44
sdE=0.0
fwE=0.00
20181127T195135.0001.fits
SecZ=1.04
Focus=-5.623
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.130 -5.574 -4.165
T123=7.5 9.0 10.0
ALT/AZ=73.3 -132.6
sdW=13.0
fwW=3.02
sdS=5.2
fwS=4.20
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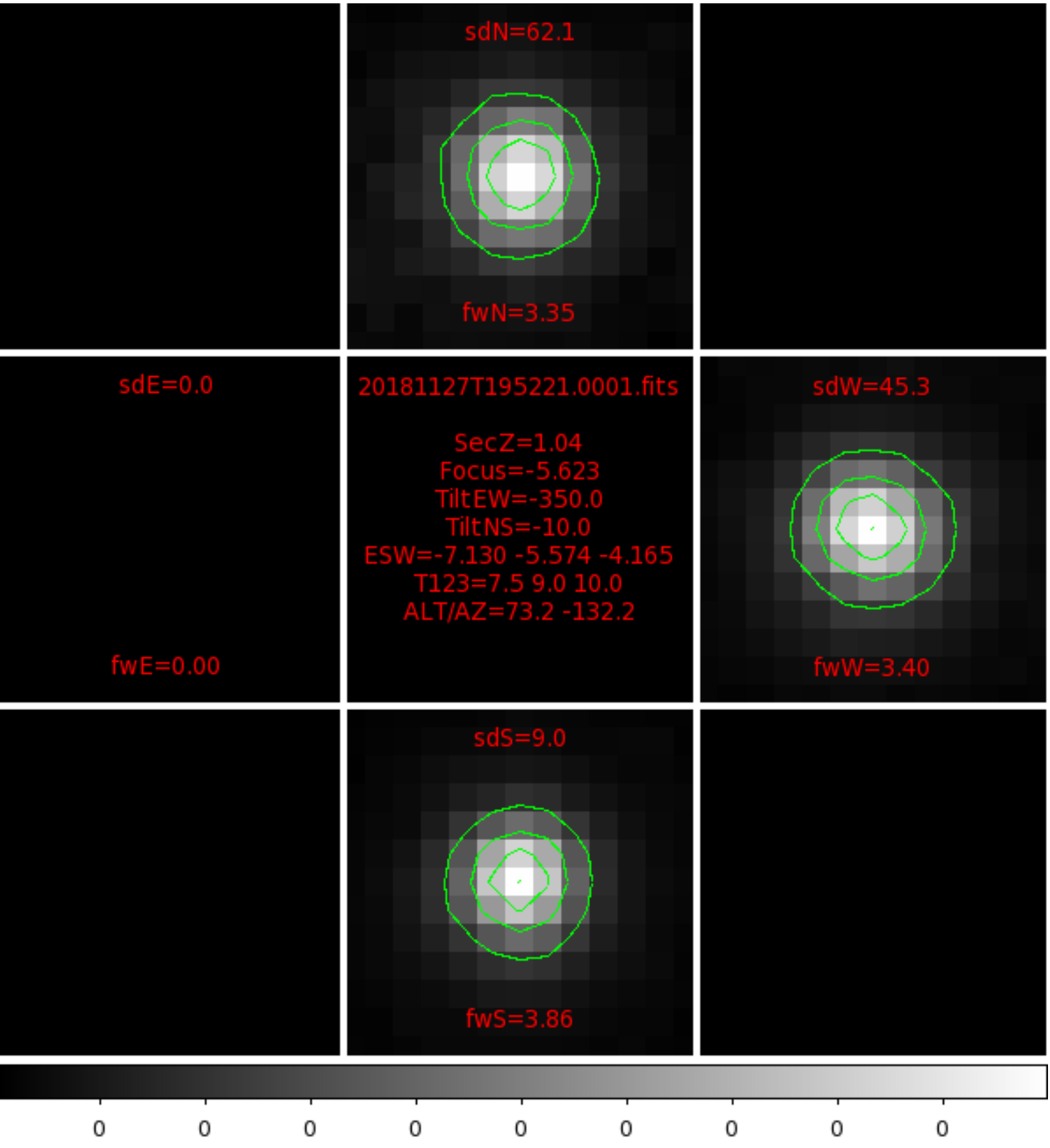
sdN=62.1
fwN=3.35
sdE=0.0
fwE=0.00
20181127T195221.0001.fits
SecZ=1.04
Focus=-5.623
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.130 -5.574 -4.165
T123=7.5 9.0 10.0
ALT/AZ=73.2 -132.2
sdW=45.3
fwW=3.40
sdS=9.0
fwS=3.86
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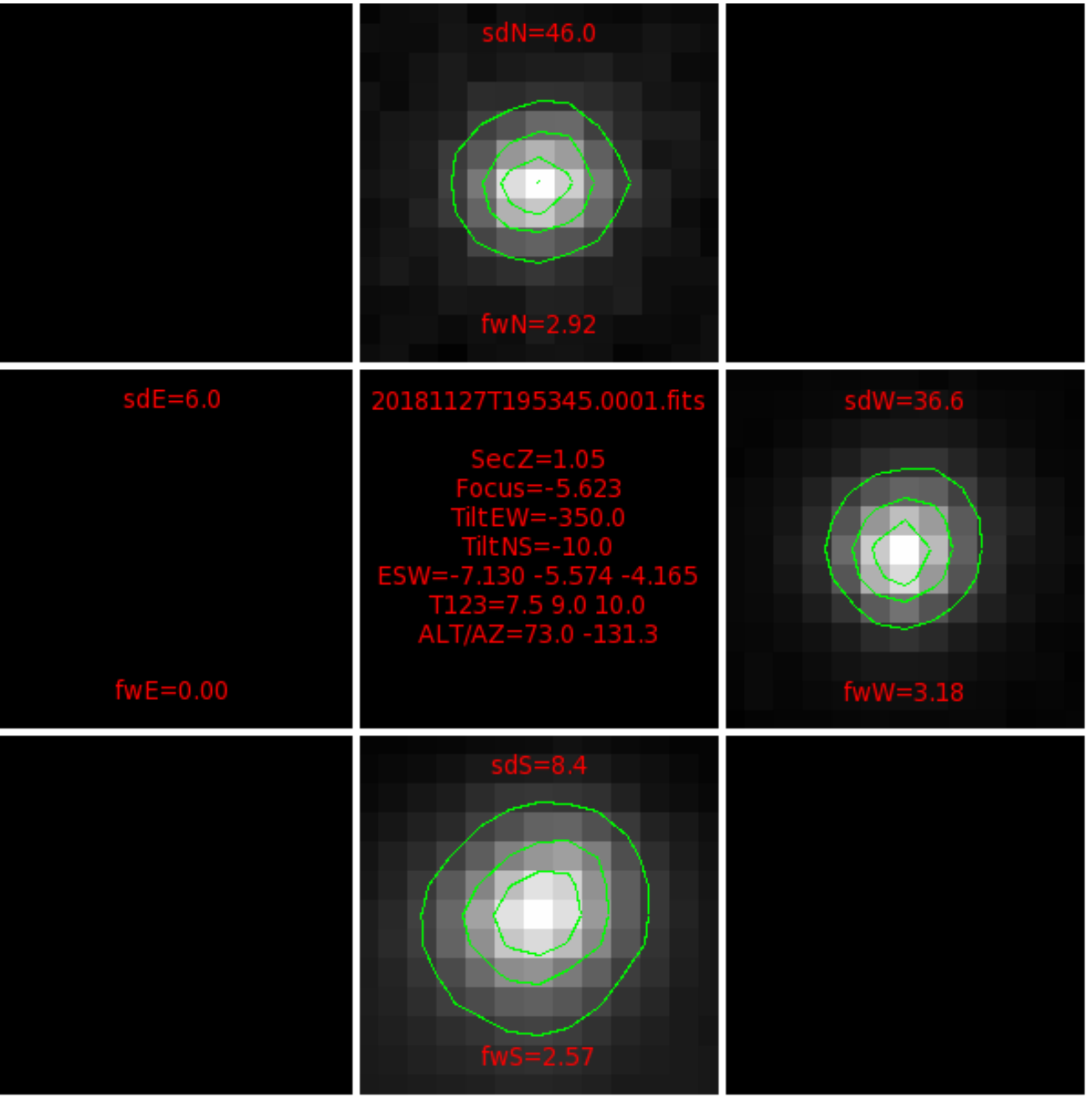
sdN=46.0
fwN=2.92
sdE=6.0
fwE=0.00
20181127T195345.0001.fits
SecZ=1.05
Focus=-5.623
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.130 -5.574 -4.165
T123=7.5 9.0 10.0
ALT/AZ=73.0 -131.3
sdW=36.6
fwW=3.18
sdS=8.4
fwS=2.57
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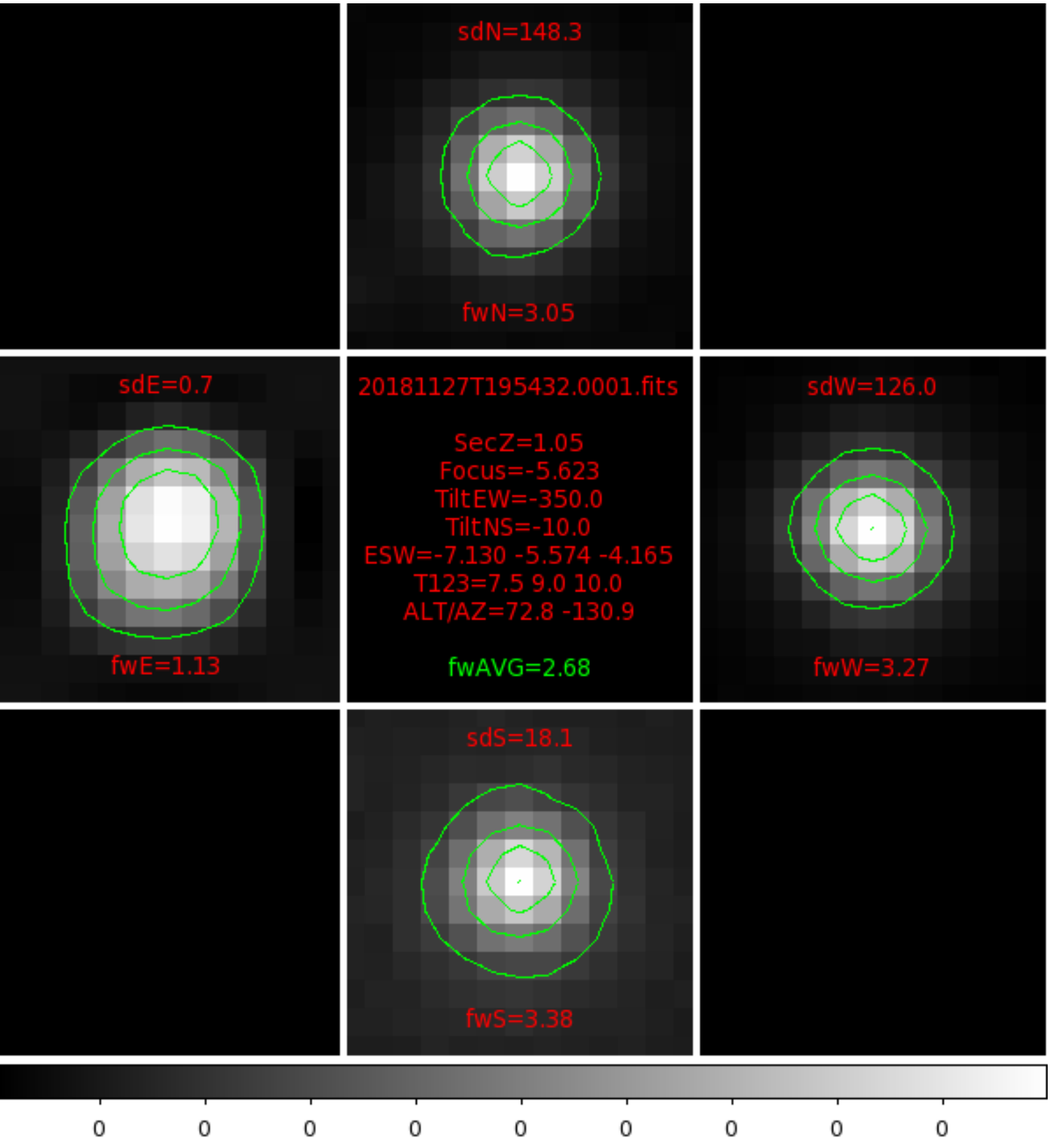
sdN=148.3
fwN=3.05
sdE=0.7
fwE=1.13
20181127T195432.0001.fits
SecZ=1.05
Focus=-5.623
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.130 -5.574 -4.165
T123=7.5 9.0 10.0
ALT/AZ=72.8 -130.9
fwAVG=2.68
sdW=126.0
fwW=3.27
sdS=18.1
fwS=3.38
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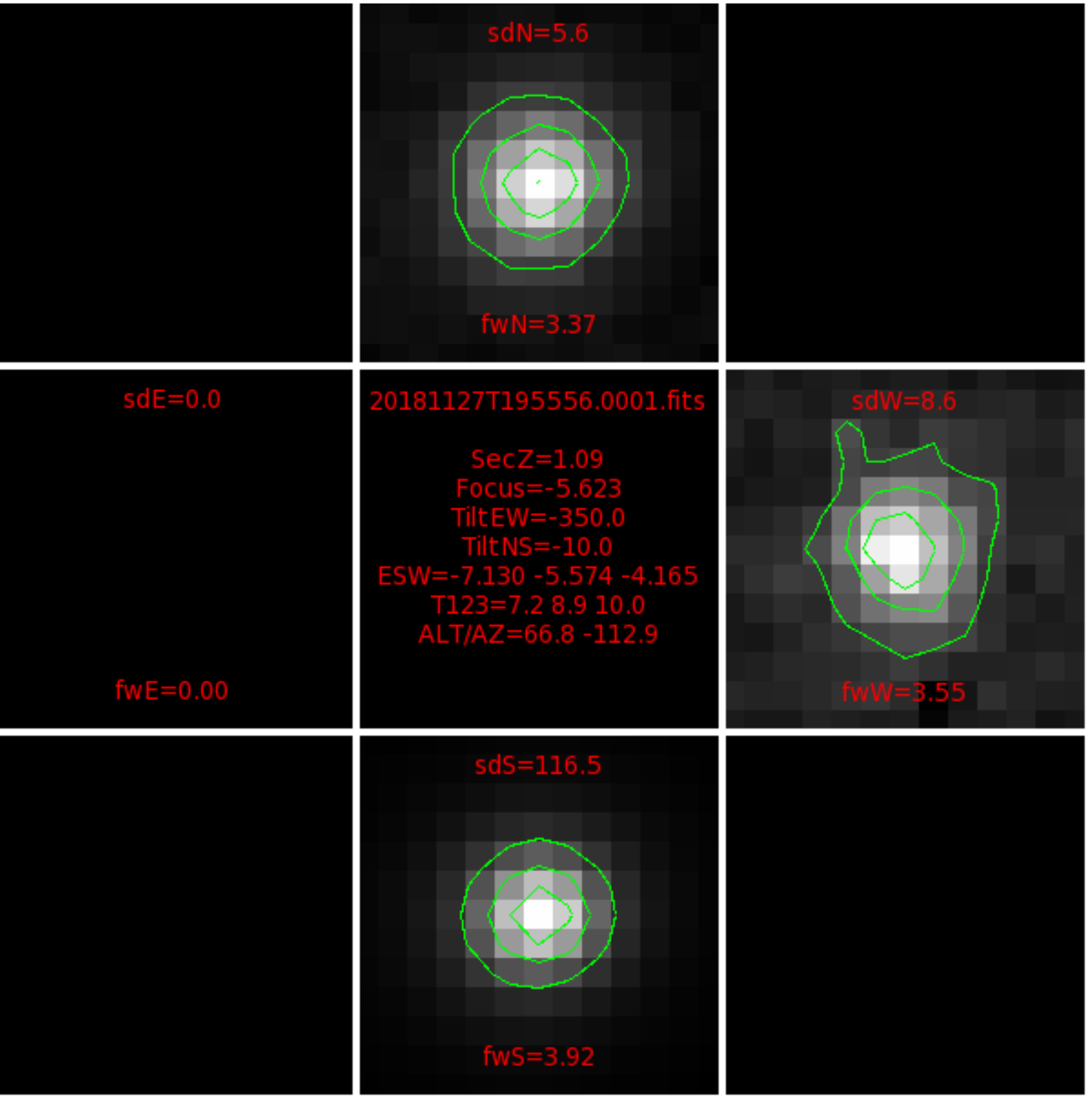
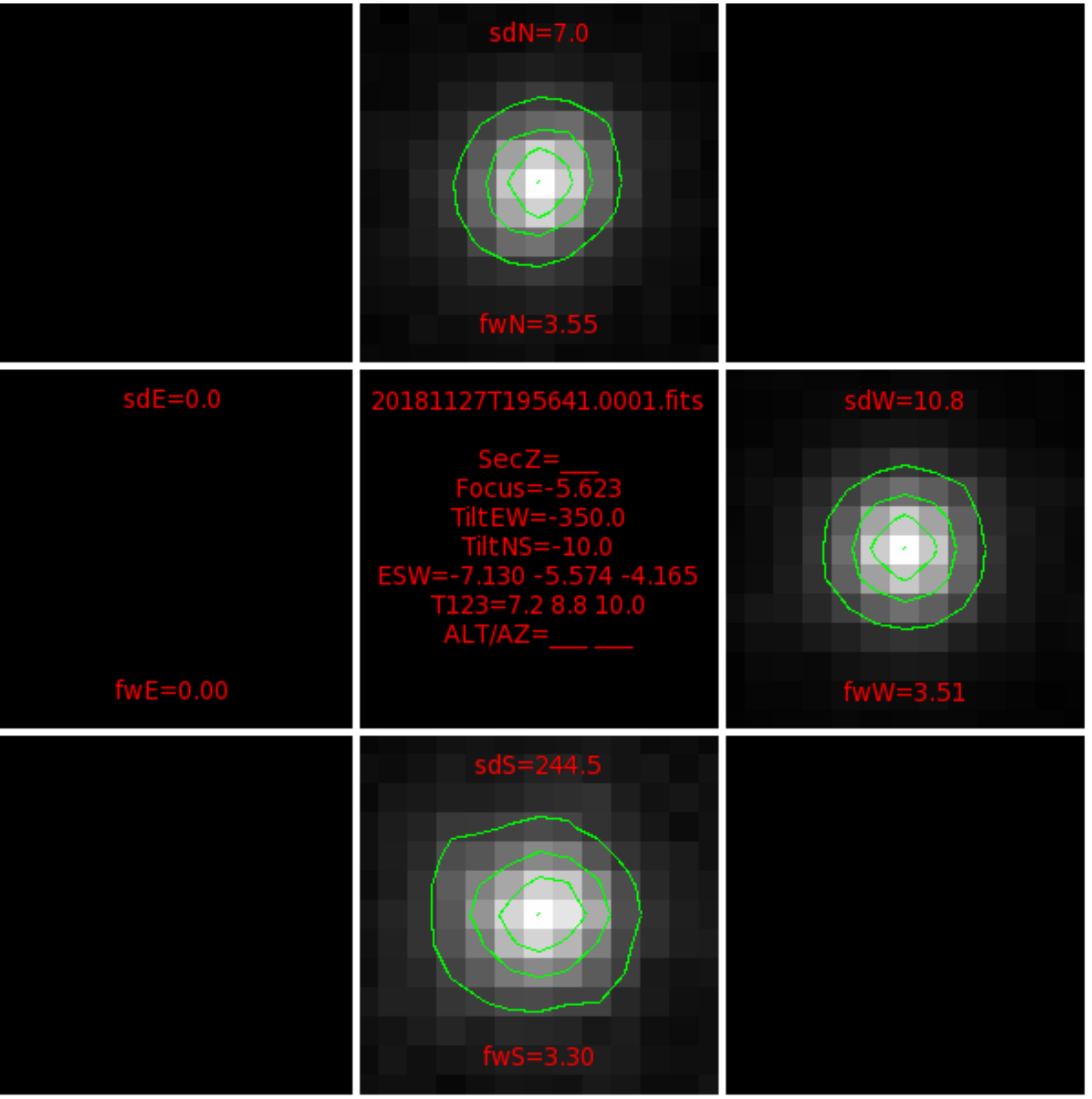

sdN=5.6
fwN=3.37
sdE=0.0
fwE=0.00
20181127T195556.0001.fits
SecZ=1.09
Focus=-5.623
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.130 -5.574 -4.165
T123=7.2 8.9 10.0
ALT/AZ=66.8 -112.9
sdW=8.6
fwW=3.55
sdS=116.5
fwS=3.92
0 0 0 0 0 0 0 0 0


sdN=7.0
fwN=3.55
sdE=0.0
fwE=0.00
20181127T195641.0001.fits
SecZ=___
Focus=-5.623
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.130 -5.574 -4.165
T123=7.2 8.8 10.0
ALT/AZ=___ ___
sdW=10.8
fwW=3.51
sdS=244.5
fwS=3.30
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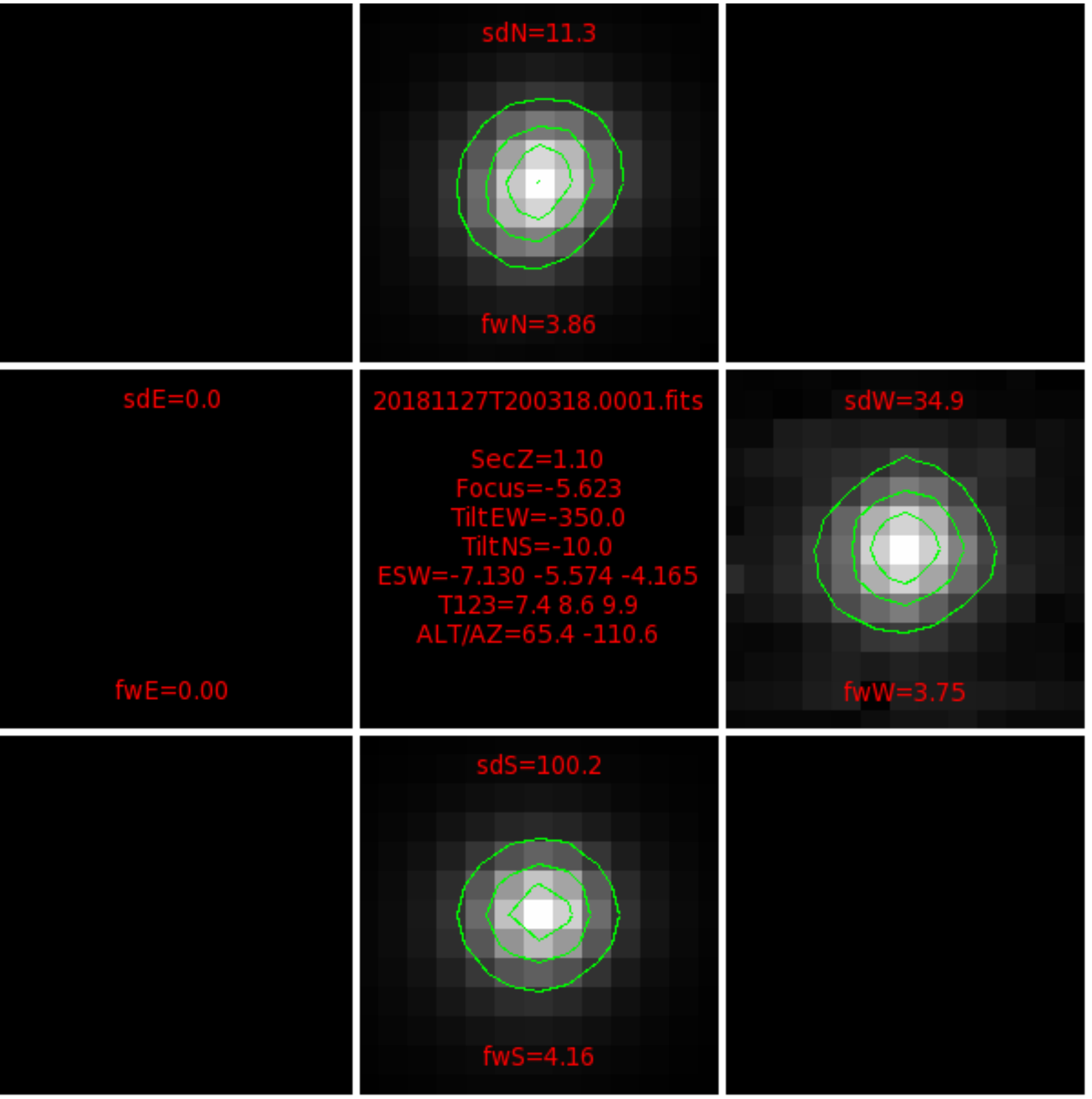
sdN=11.3
fwN=3.86
sdE=0.0
fwE=0.00
20181127T200318.0001.fits
SecZ=1.10
Focus=-5.623
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.130 -5.574 -4.165
T123=7.4 8.6 9.9
ALT/AZ=65.4 -110.6
sdW=34.9
fwW=3.75
sdS=100.2
fwS=4.16
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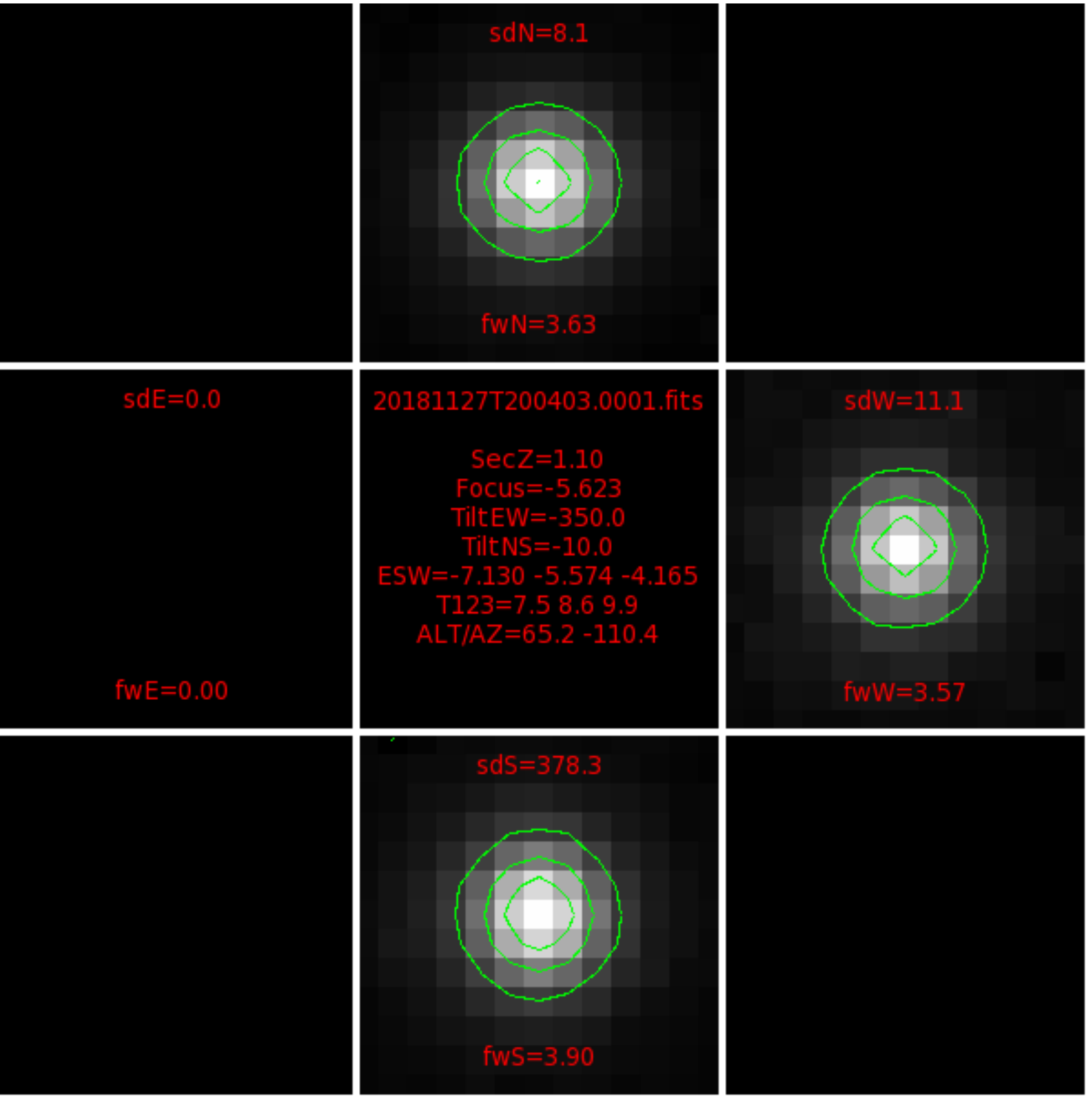
sdN=8.1
fwN=3.63
sdE=0.0
fwE=0.00
20181127T200403.0001.fits
SecZ=1.10
Focus=-5.623
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.130 -5.574 -4.165
T123=7.5 8.6 9.9
ALT/AZ=65.2 -110.4
sdW=11.1
fwW=3.57
sdS=378.3
fwS=3.90
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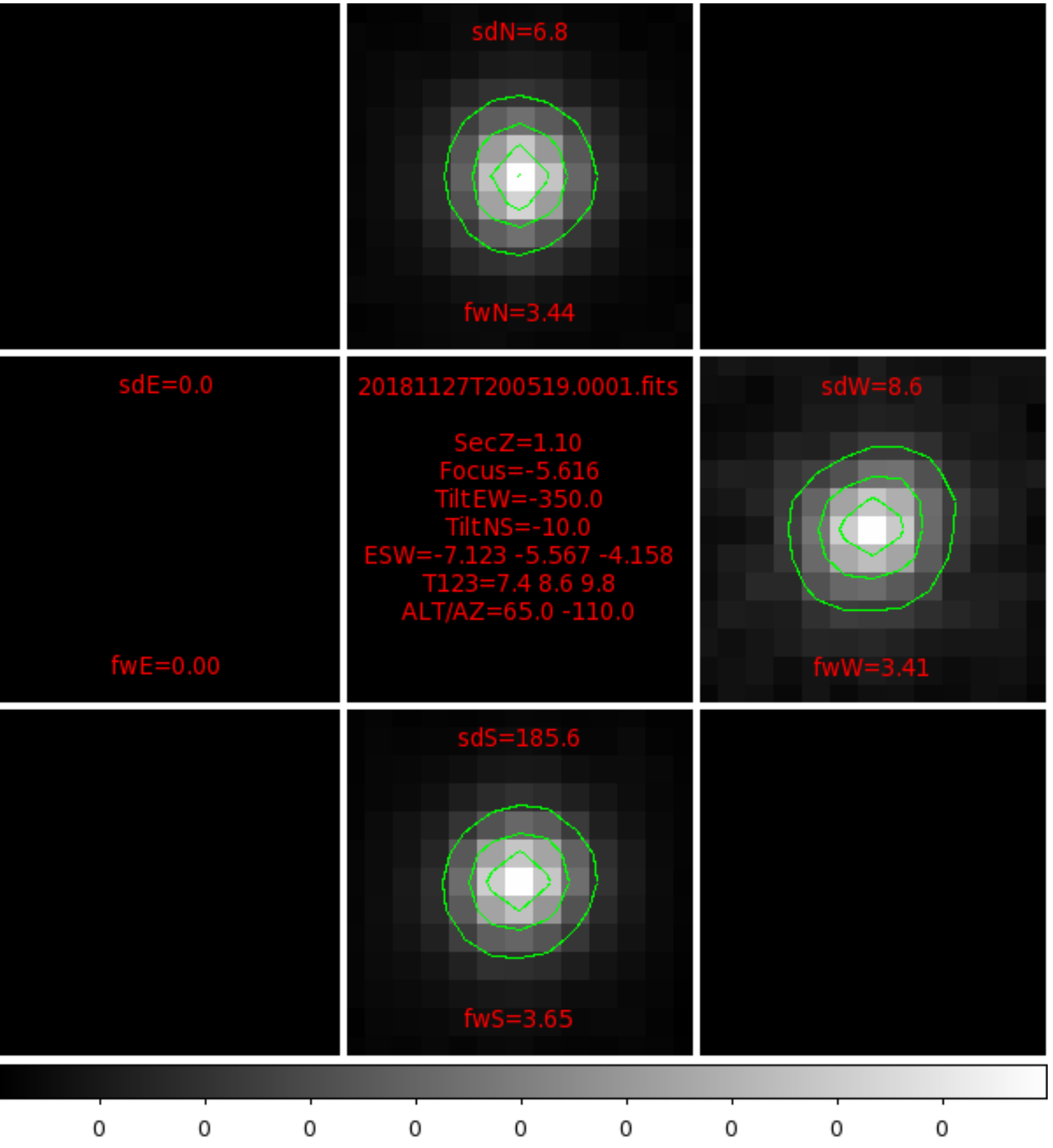
sdN=6.8
fwN=3.44
sdE=0.0
fwE=0.00
20181127T200519.0001.fits
SecZ=1.10
Focus=-5.616
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.123 -5.567 -4.158
T123=7.4 8.6 9.8
ALT/AZ=65.0 -110.0
sdW=8.6
fwW=3.41
sdS=185.6
fwS=3.65
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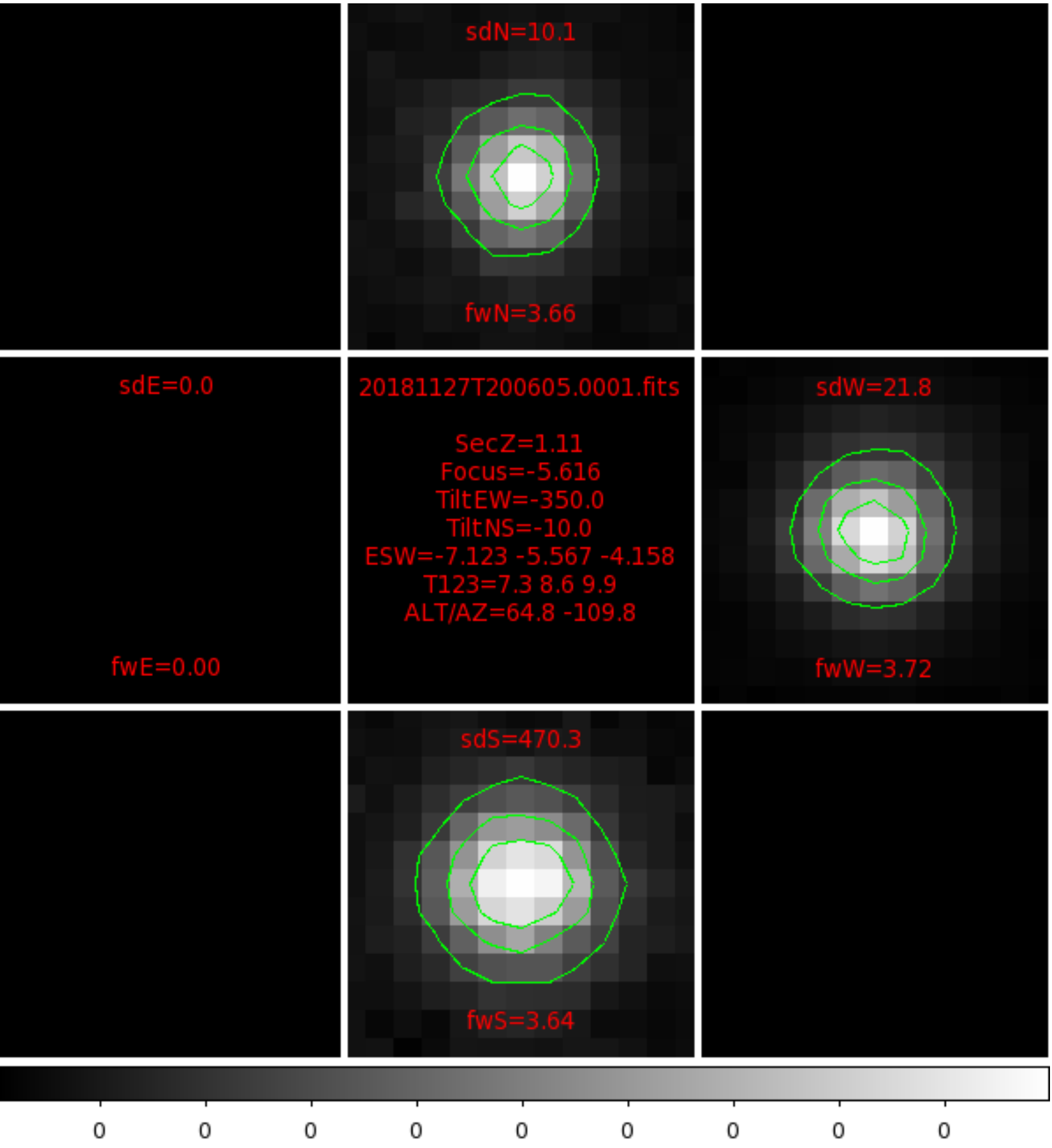
sdN=10.1
fwN=3.66
sdE=0.0
fwE=0.00
20181127T200605.0001.fits
SecZ=1.11
Focus=-5.616
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.123 -5.567 -4.158
T123=7.3 8.6 9.9
ALT/AZ=64.8 -109.8
sdW=21.8
fwW=3.72
sdS=470.3
fwS=3.64
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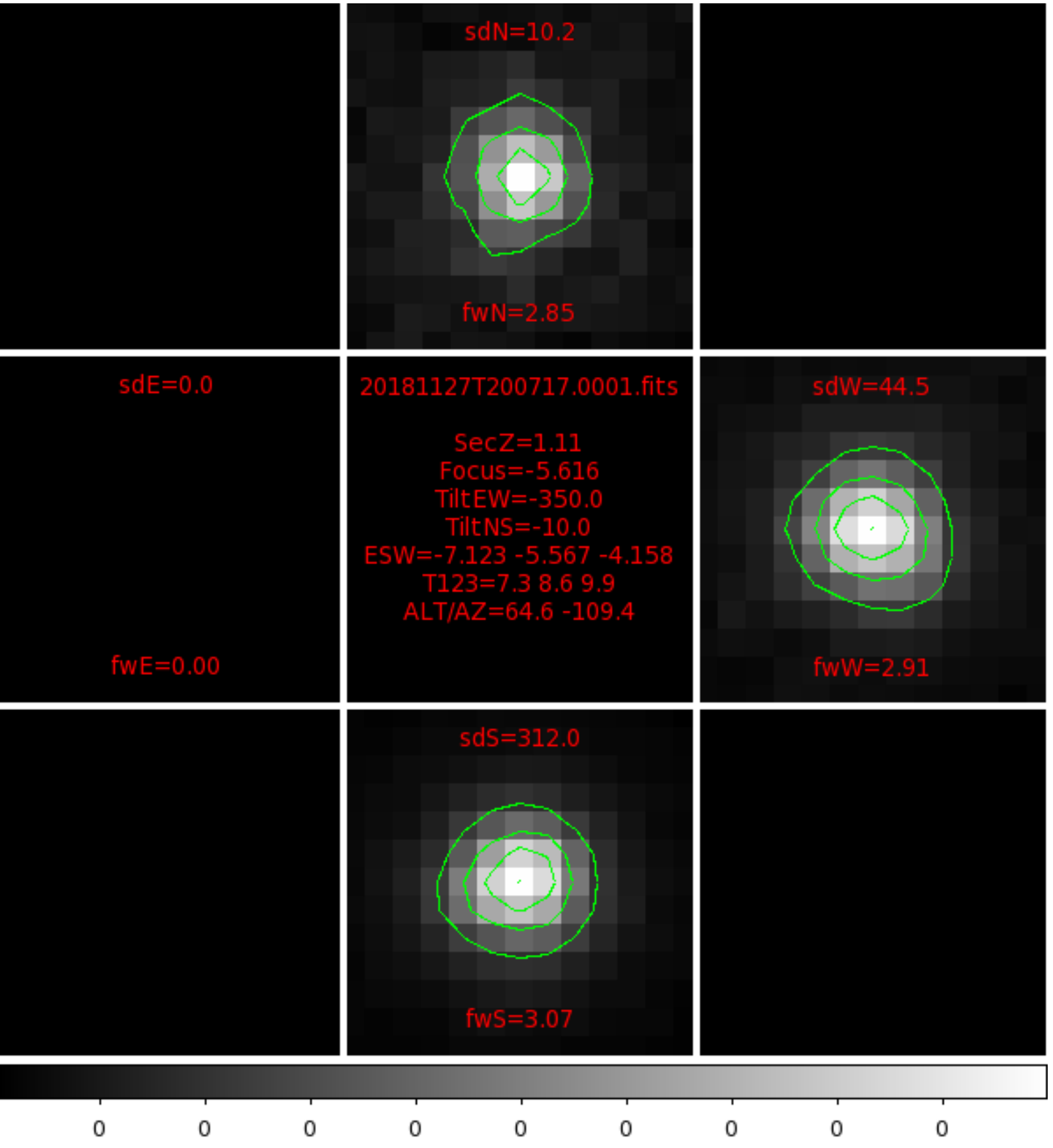
sdN=10.2
fwN=2.85
sdE=0.0
fwE=0.00
20181127T200717.0001.fits
SecZ=1.11
Focus=-5.616
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.123 -5.567 -4.158
T123=7.3 8.6 9.9
ALT/AZ=64.6 -109.4
sdW=44.5
fwW=2.91
sdS=312.0
fwS=3.07
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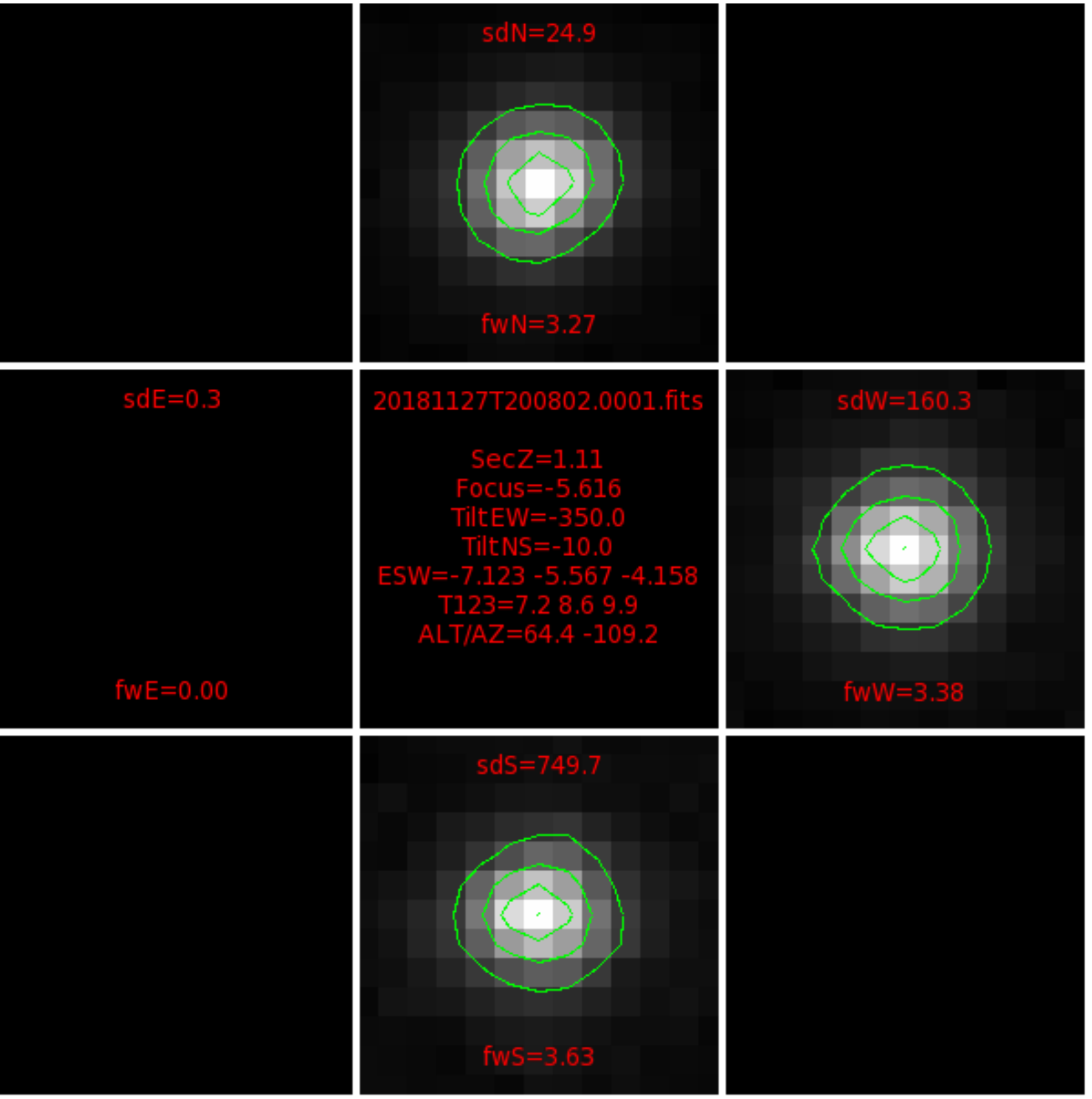
sdN=24.9
fwN=3.27
sdE=0.3
fwE=0.00
20181127T200802.0001.fits
SecZ=1.11
Focus=-5.616
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.123 -5.567 -4.158
T123=7.2 8.6 9.9
ALT/AZ=64.4 -109.2
sdW=160.3
fwW=3.38
sdS=749.7
fwS=3.63
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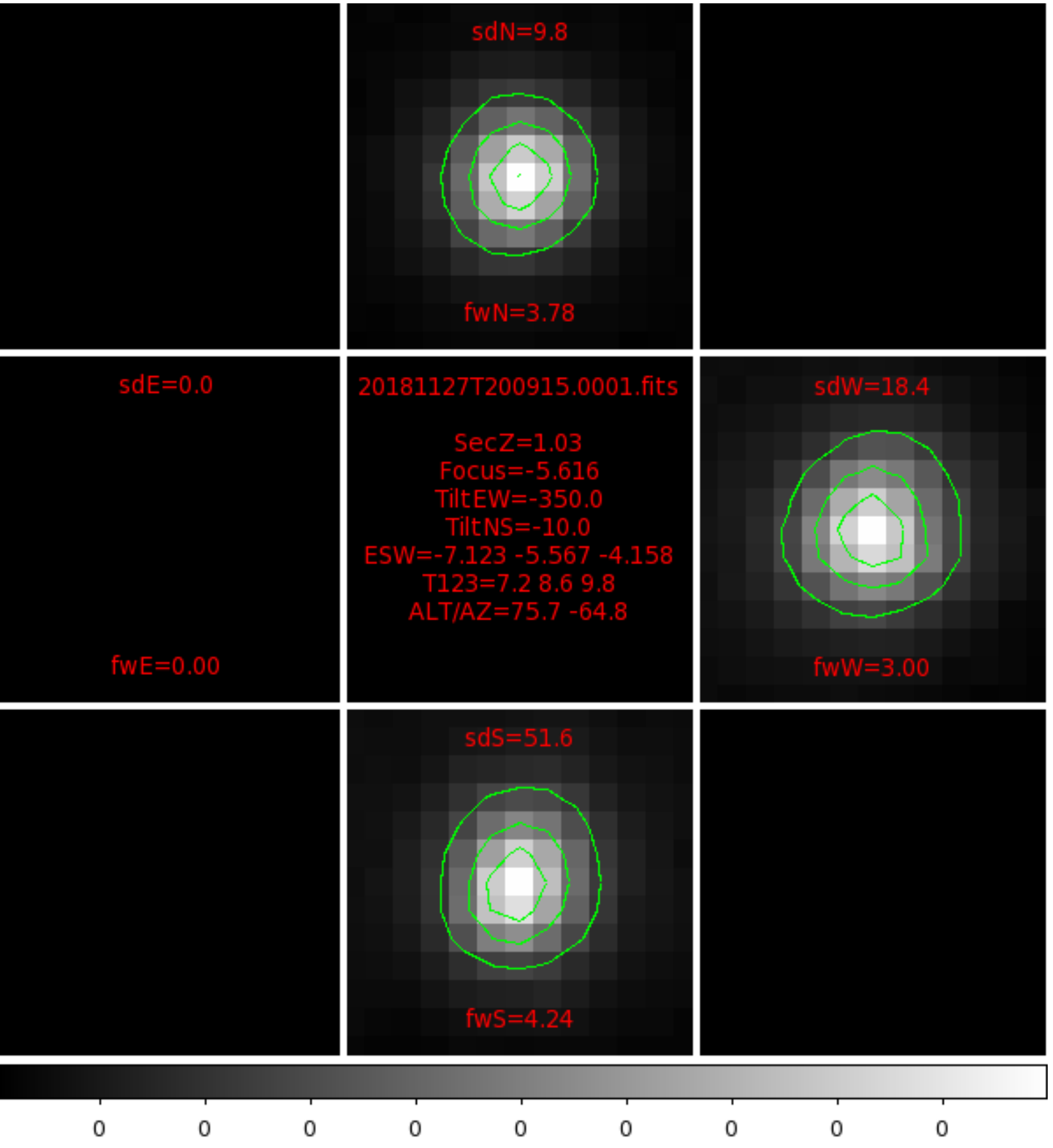
sdN=9.8
fwN=3.78
sdE=0.0
fwE=0.00
20181127T200915.0001.fits
SecZ=1.03
Focus=-5.616
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.123 -5.567 -4.158
T123=7.2 8.6 9.8
ALT/AZ=75.7 -64.8
sdW=18.4
fwW=3.00
sdS=51.6
fwS=4.24
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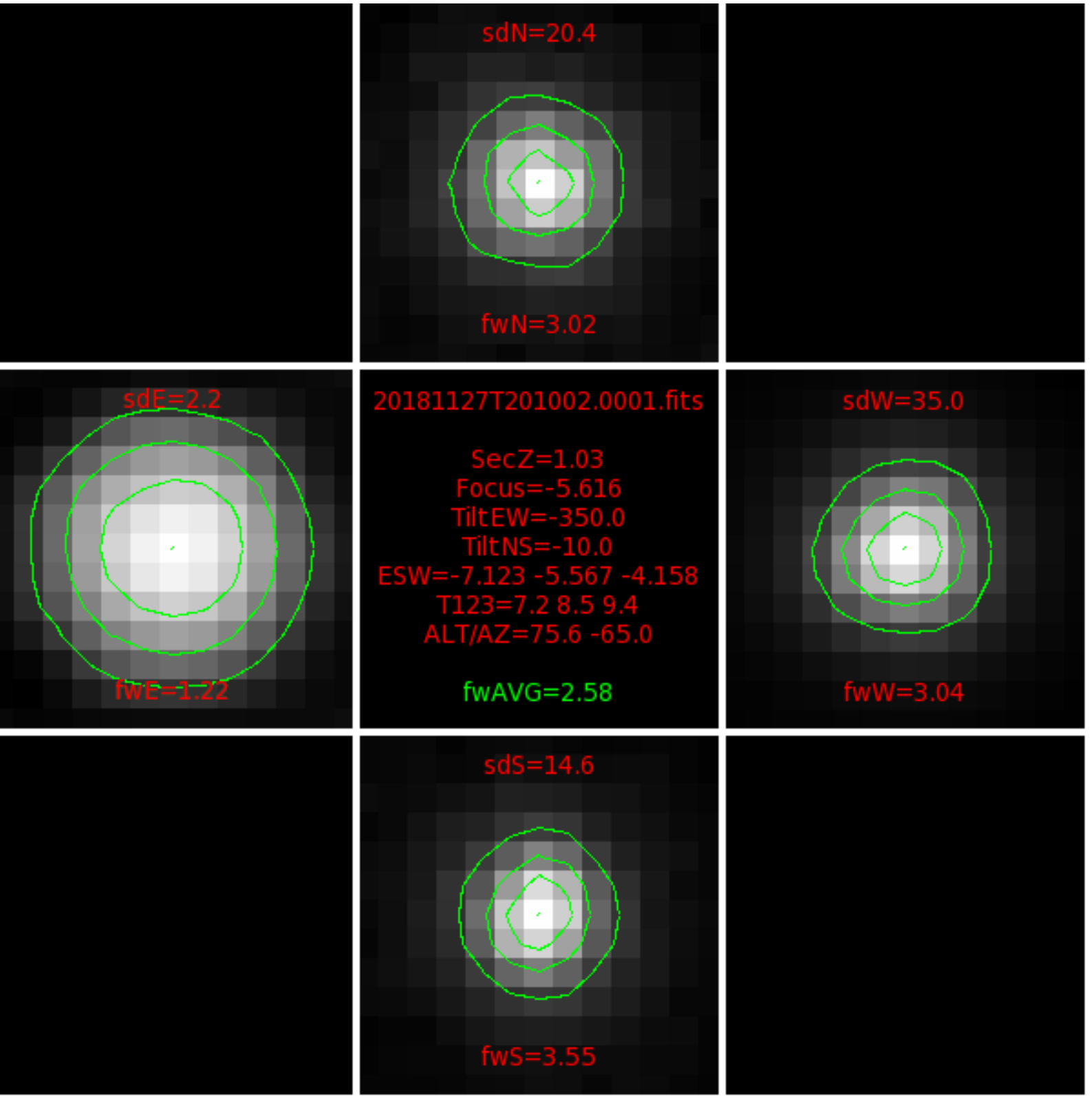
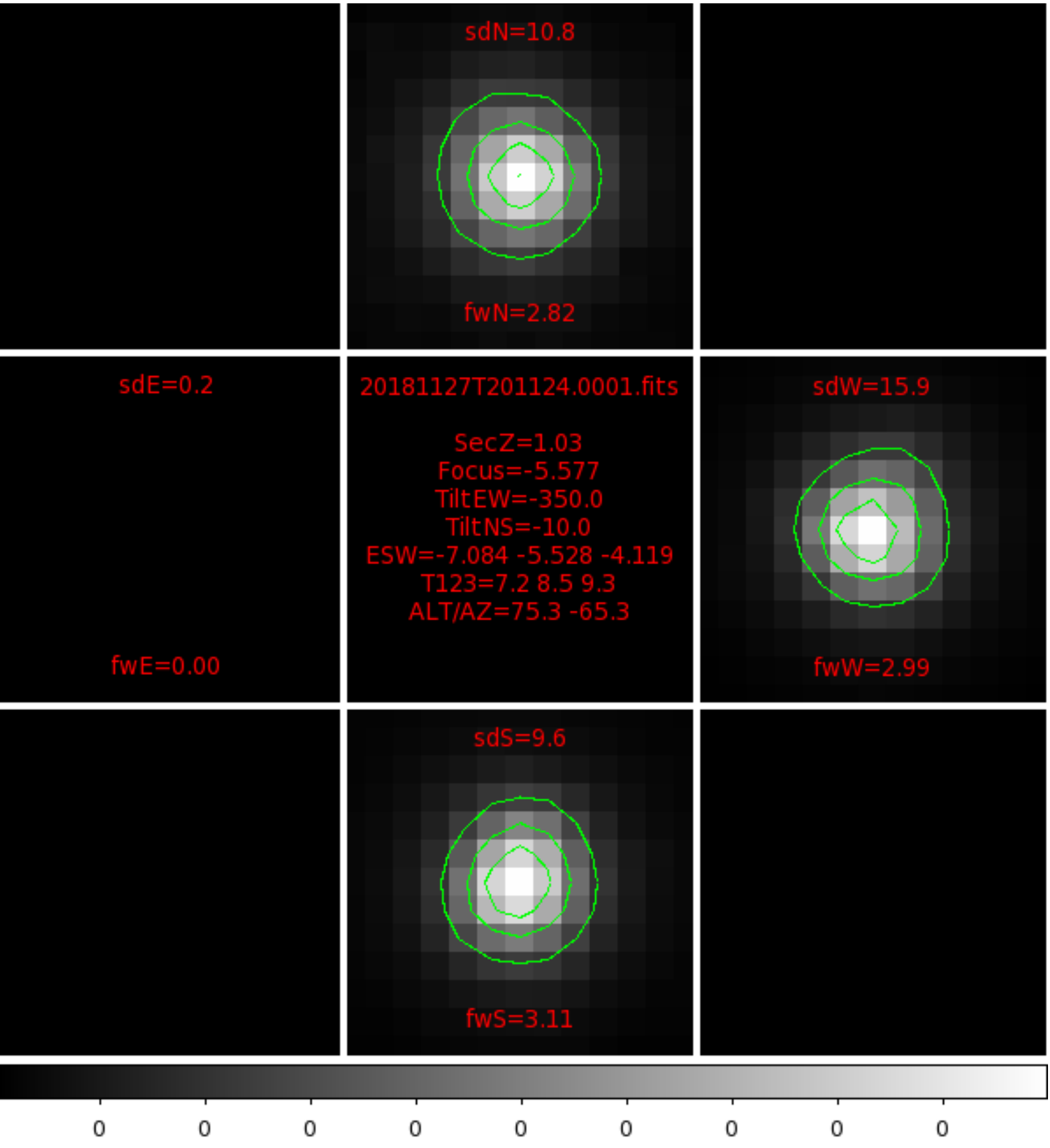
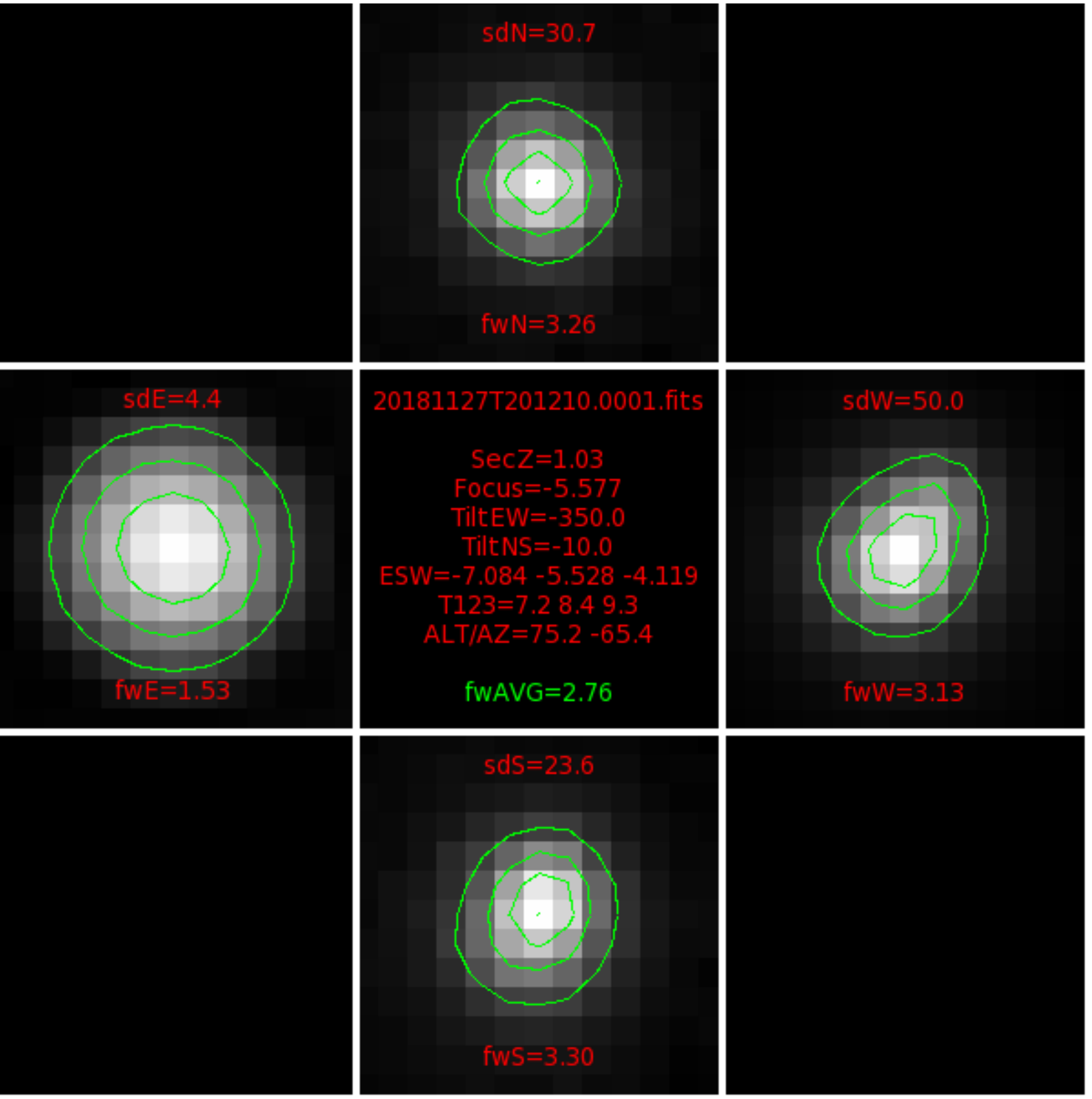
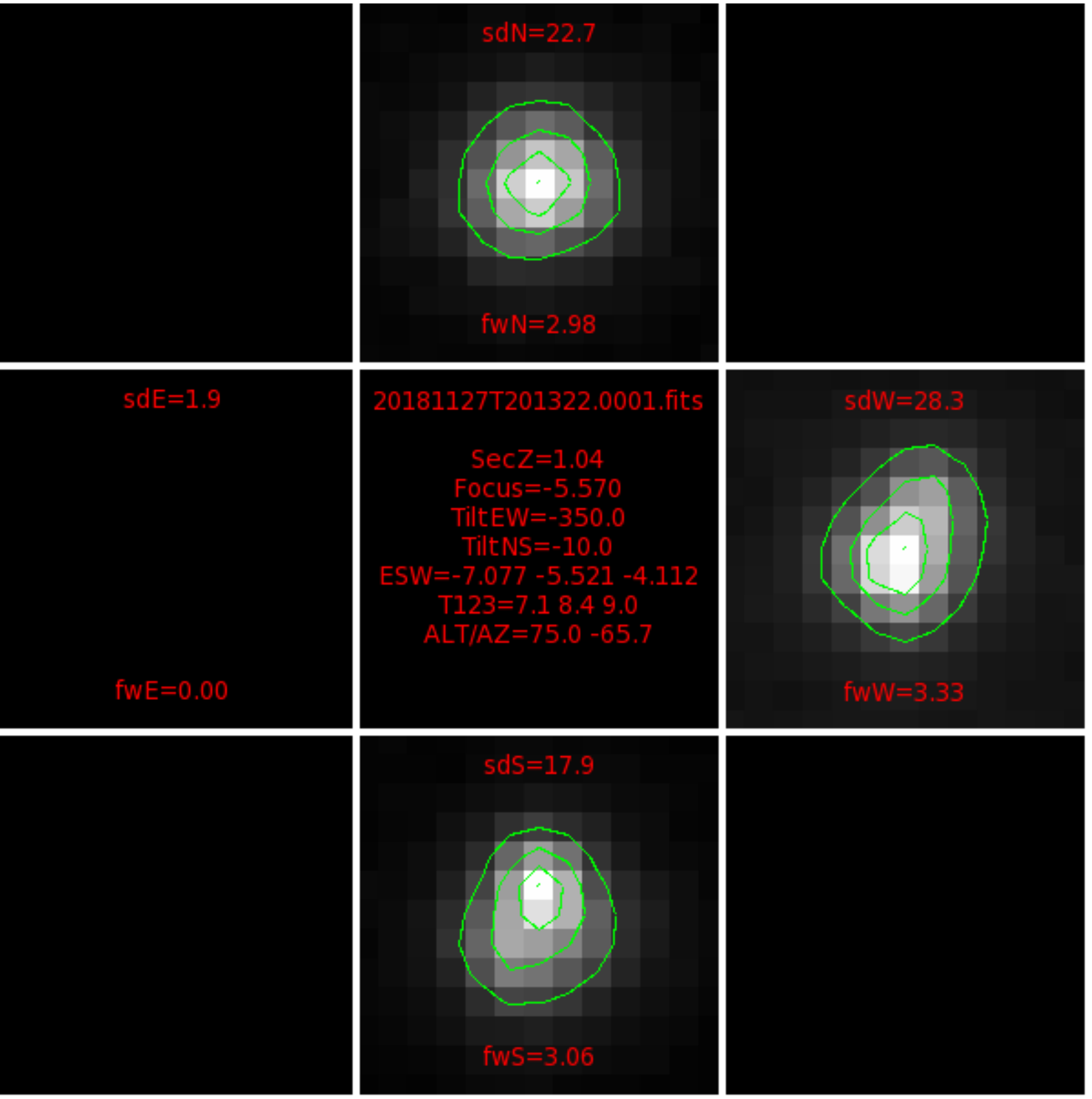

sdN=20.4
fwN=3.02
sdE=2.2
fwE=1.22
20181127T201002.0001.fits
SecZ=1.03
Focus=-5.616
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.123 -5.567 -4.158
T123=7.2 8.5 9.4
ALT/AZ=75.6 -65.0
fwAVG=2.58
sdW=35.0
fwW=3.04
sdS=14.6
fwS=3.55
0 0 0 0 0 0 0 0 0


sdN=10.8
fwN=2.82
sdE=0.2
fwE=0.00
20181127T201124.0001.fits
SecZ=1.03
Focus=-5.577
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.084 -5.528 -4.119
T123=7.2 8.5 9.3
ALT/AZ=75.3 -65.3
sdW=15.9
fwW=2.99
sdS=9.6
fwS=3.11
0 0 0 0 0 0 0 0 0


sdN=30.7
fwN=3.26
sdE=4.4
fwE=1.53
20181127T201210.0001.fits
SecZ=1.03
Focus=-5.577
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.084 -5.528 -4.119
T123=7.2 8.4 9.3
ALT/AZ=75.2 -65.4
fwAVG=2.76
sdW=50.0
fwW=3.13
sdS=23.6
fwS=3.30
0 0 0 0 0 0 0 0 0


sdN=22.7
fwN=2.98
sdE=1.9
fwE=0.00
20181127T201322.0001.fits
SecZ=1.04
Focus=-5.570
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.077 -5.521 -4.112
T123=7.1 8.4 9.0
ALT/AZ=75.0 -65.7
sdW=28.3
fwW=3.33
sdS=17.9
fwS=3.06
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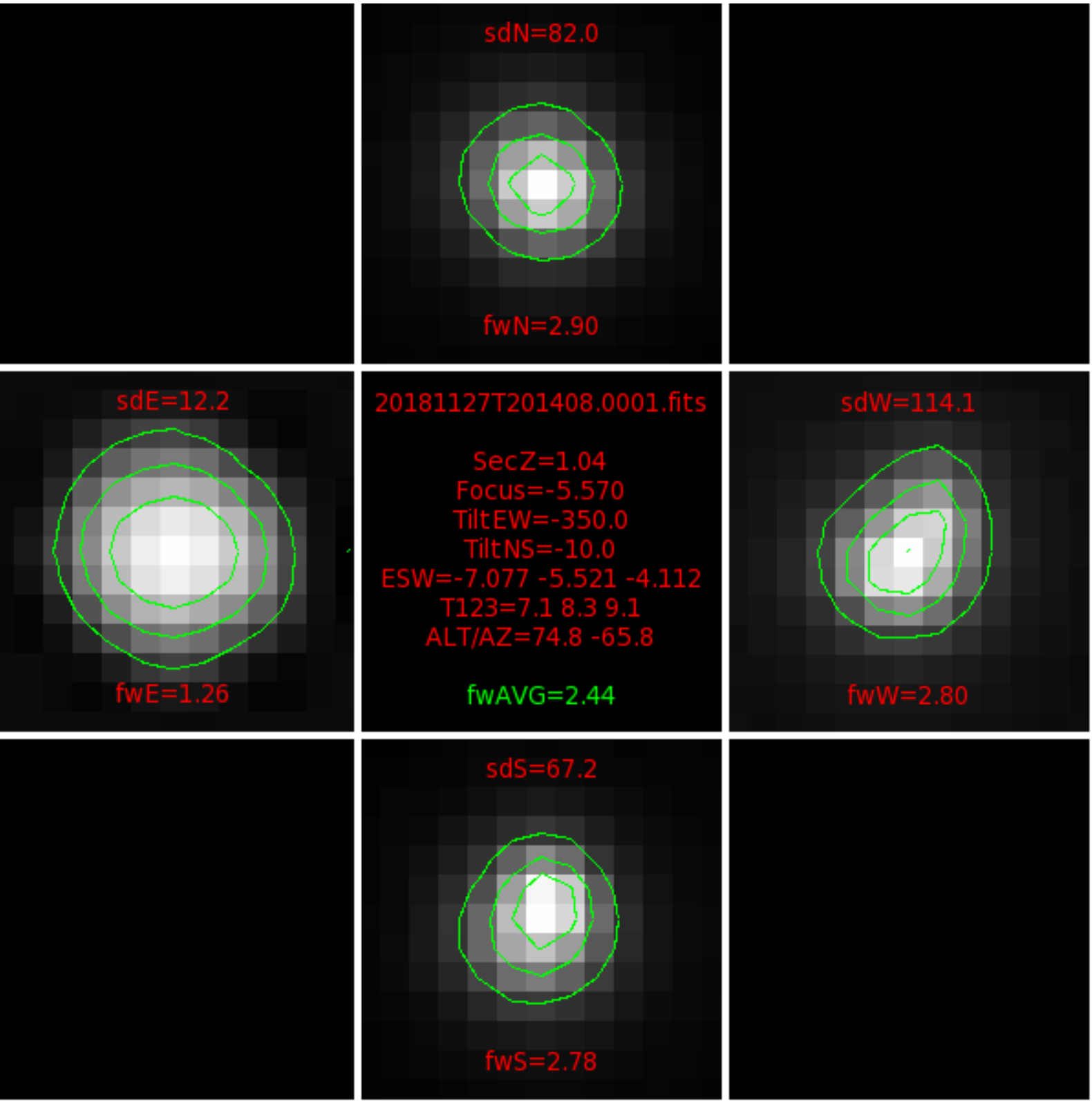
sdN=82.0
fwN=2.90
sdE=12.2
fwE=1.26
20181127T201408.0001.fits
SecZ=1.04
Focus=-5.570
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.077 -5.521 -4.112
T123=7.1 8.3 9.1
ALT/AZ=74.8 -65.8
fwAVG=2.44
sdW=114.1
fwW=2.80
sdS=67.2
fwS=2.78
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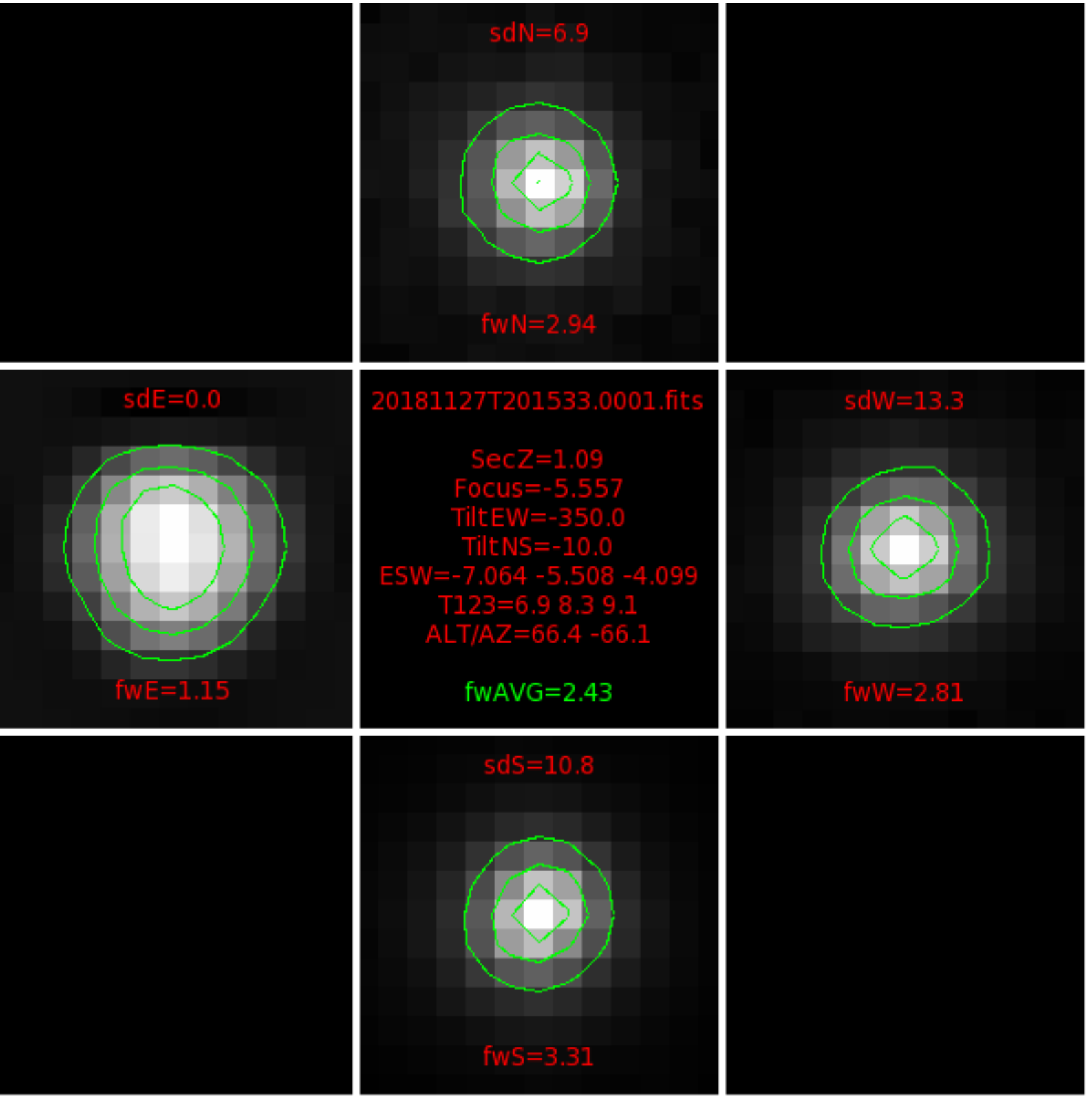
sdN=6.9
fwN=2.94
sdE=0.0
fwE=1.15
20181127T201533.0001.fits
SecZ=1.09
Focus=-5.557
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.064 -5.508 -4.099
T123=6.9 8.3 9.1
ALT/AZ=66.4 -66.1
fwAVG=2.43
sdW=13.3
fwW=2.81
sdS=10.8
fwS=3.31
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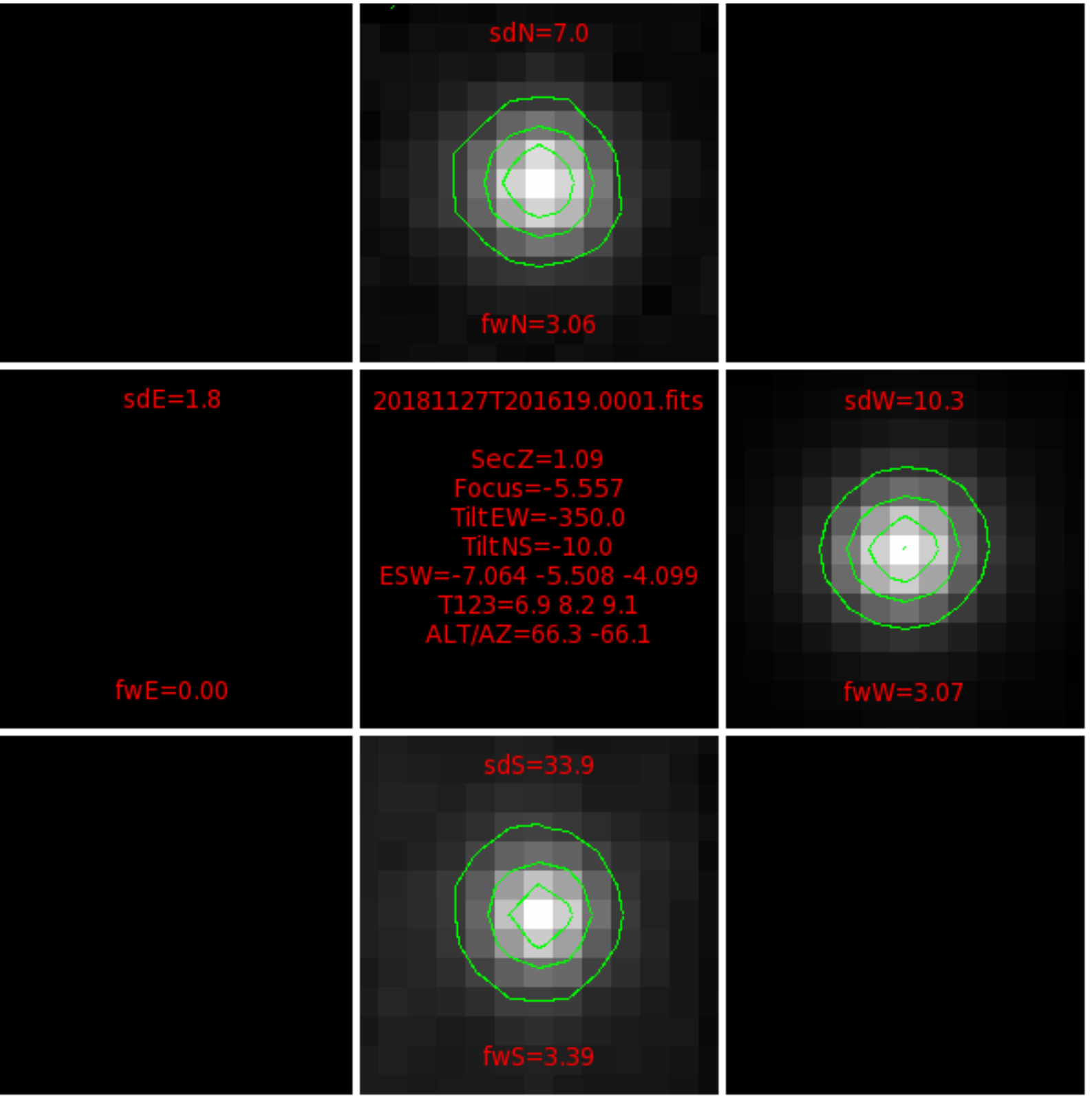
sdN=7.0
fwN=3.06
sdE=1.8
fwE=0.00
20181127T201619.0001.fits
SecZ=1.09
Focus=-5.557
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.064 -5.508 -4.099
T123=6.9 8.2 9.1
ALT/AZ=66.3 -66.1
sdW=10.3
fwW=3.07
sdS=33.9
fwS=3.39
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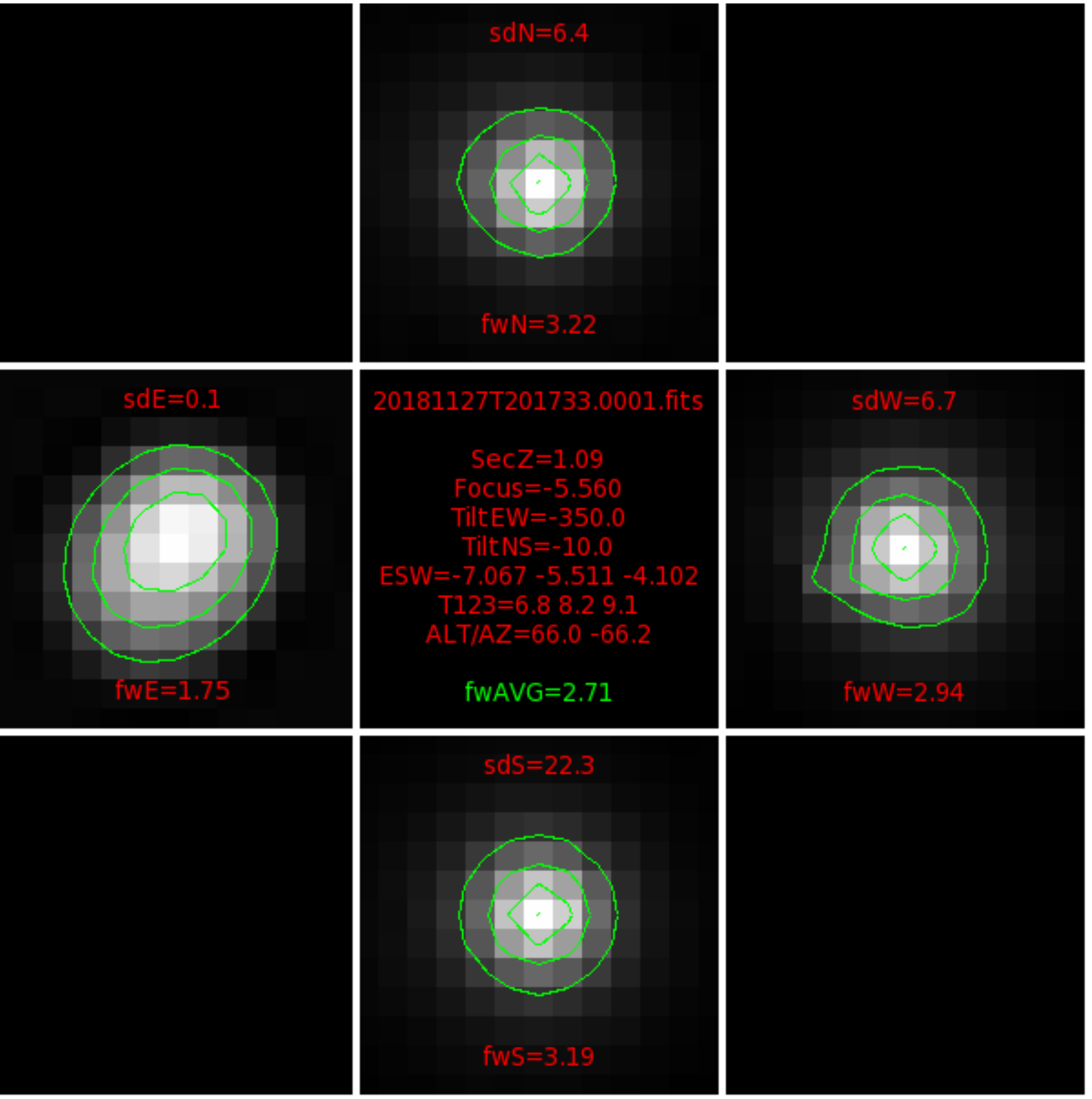
sdN=6.4
fwN=3.22
sdE=0.1
fwE=1.75
20181127T201733.0001.fits
SecZ=1.09
Focus=-5.560
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.067 -5.511 -4.102
T123=6.8 8.2 9.1
ALT/AZ=66.0 -66.2
fwAVG=2.71
sdW=6.7
fwW=2.94
sdS=22.3
fwS=3.19
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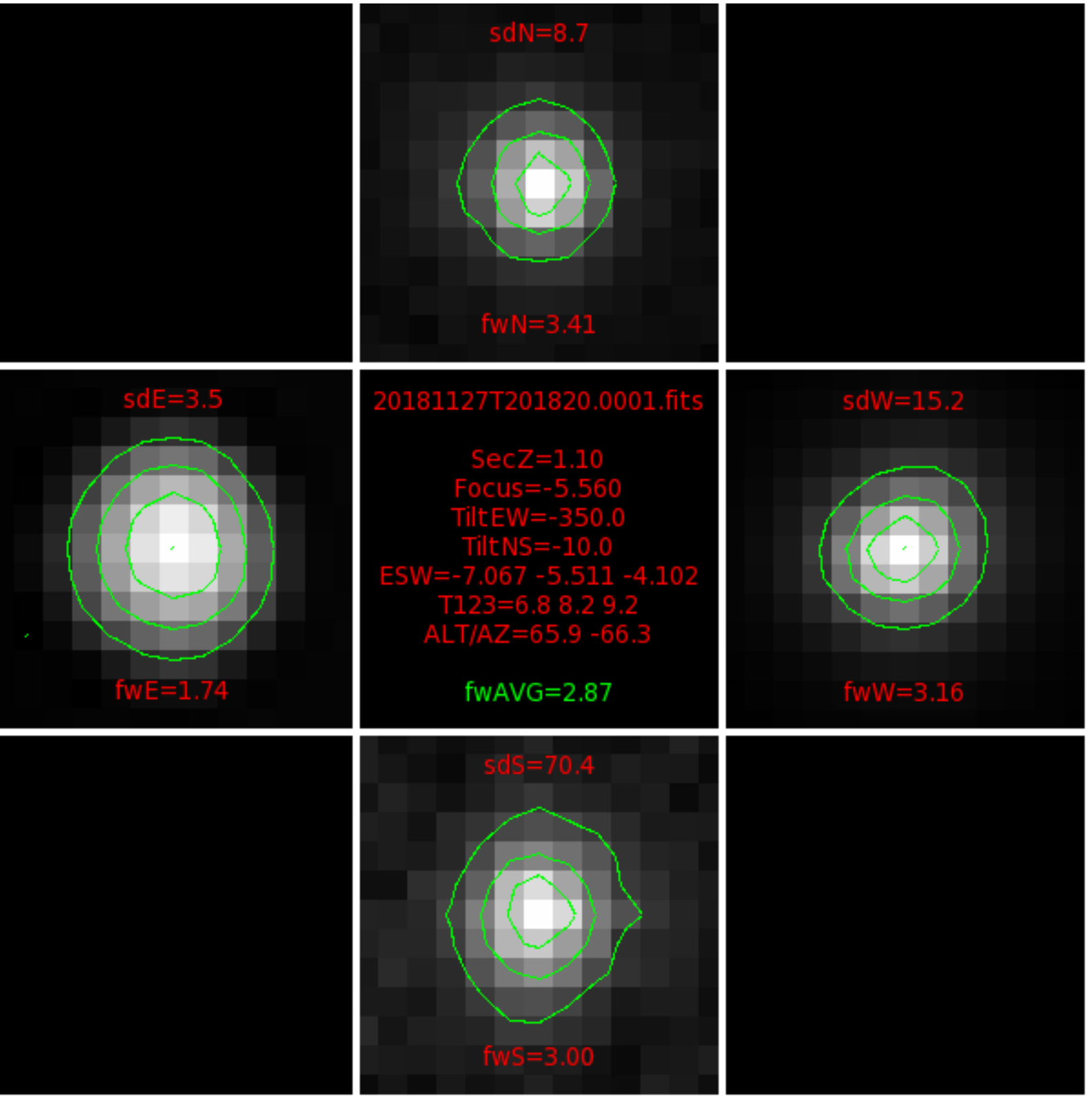
sdN=8.7
fwN=3.41
sdE=3.5
fwE=1.74
20181127T201820.0001.fits
SecZ=1.10
Focus=-5.560
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.067 -5.511 -4.102
T123=6.8 8.2 9.2
ALT/AZ=65.9 -66.3
fwAVG=2.87
sdW=15.2
fwW=3.16
sdS=70.4
fwS=3.00
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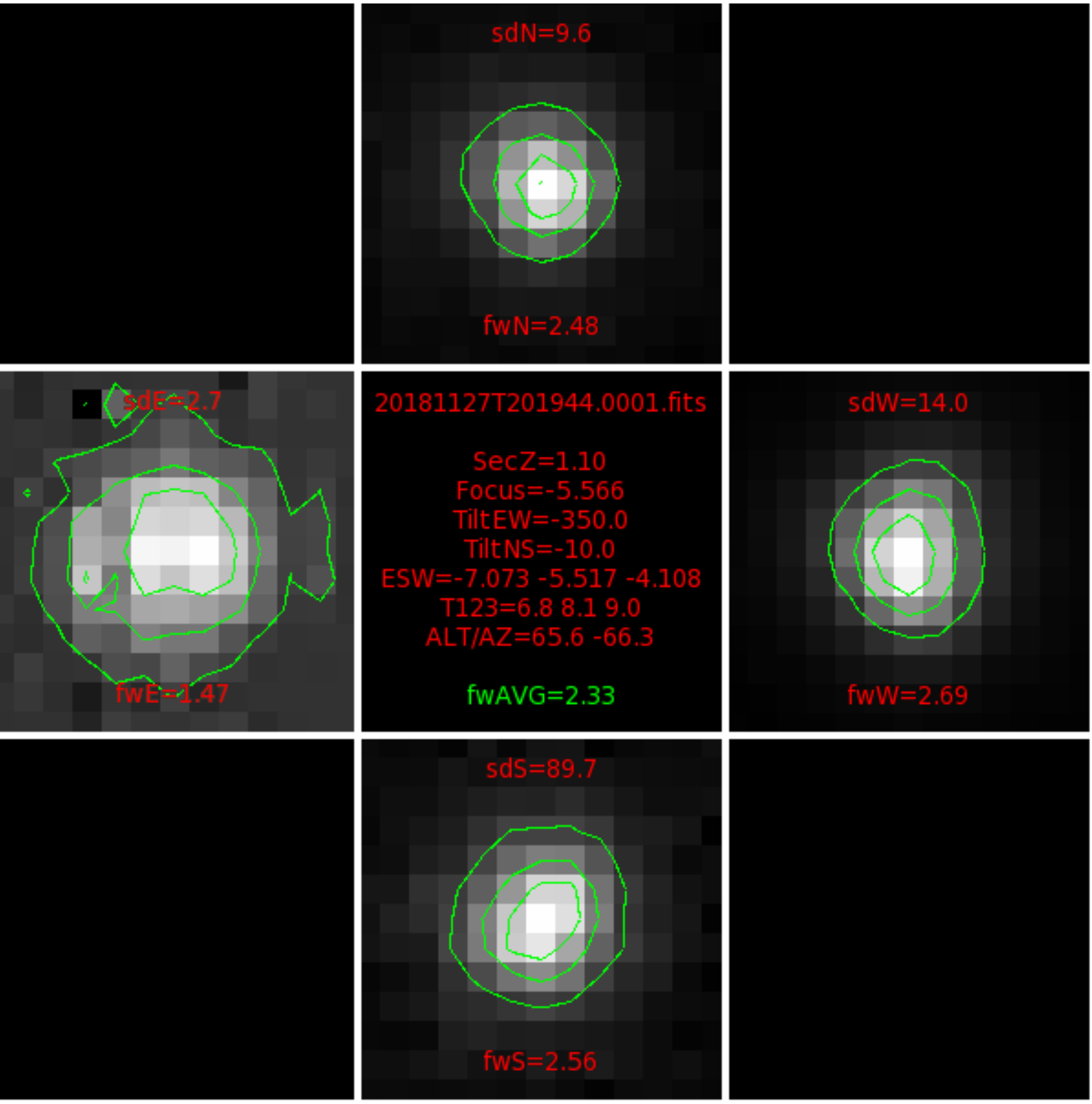
sdN=9.6
fwN=2.48
sdE=2.7
fwE=1.47
20181127T201944.0001.fits
SecZ=1.10
Focus=-5.566
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.073 -5.517 -4.108
T123=6.8 8.1 9.0
ALT/AZ=65.6 -66.3
fwAVG=2.33
sdW=14.0
fwW=2.69
sdS=89.7
fwS=2.56
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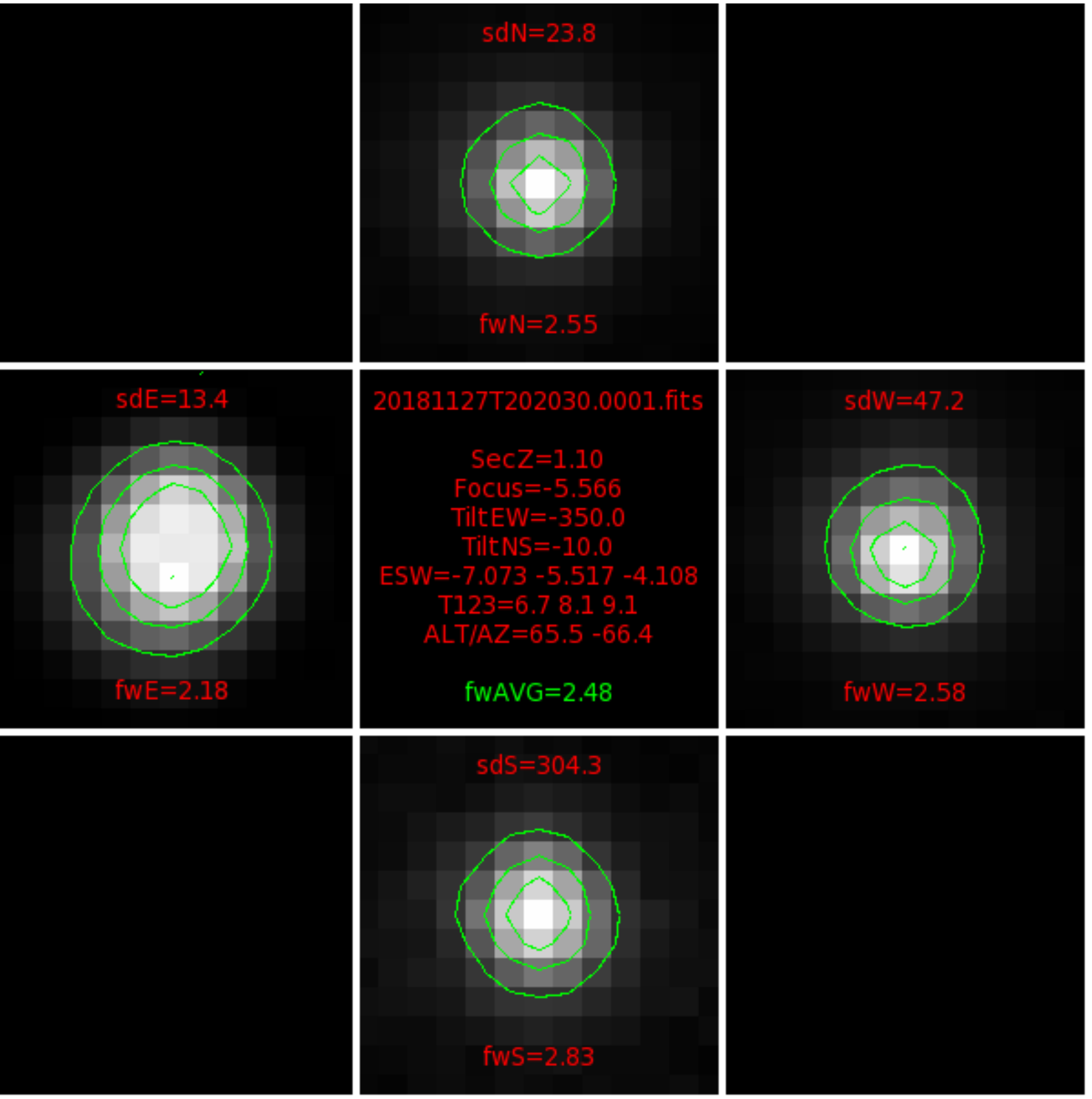
sdN=23.8
fwN=2.55
sdE=13.4
fwE=2.18
20181127T202030.0001.fits
SecZ=1.10
Focus=-5.566
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.073 -5.517 -4.108
T123=6.7 8.1 9.1
ALT/AZ=65.5 -66.4
fwAVG=2.48
sdW=47.2
fwW=2.58
sdS=304.3
fwS=2.83
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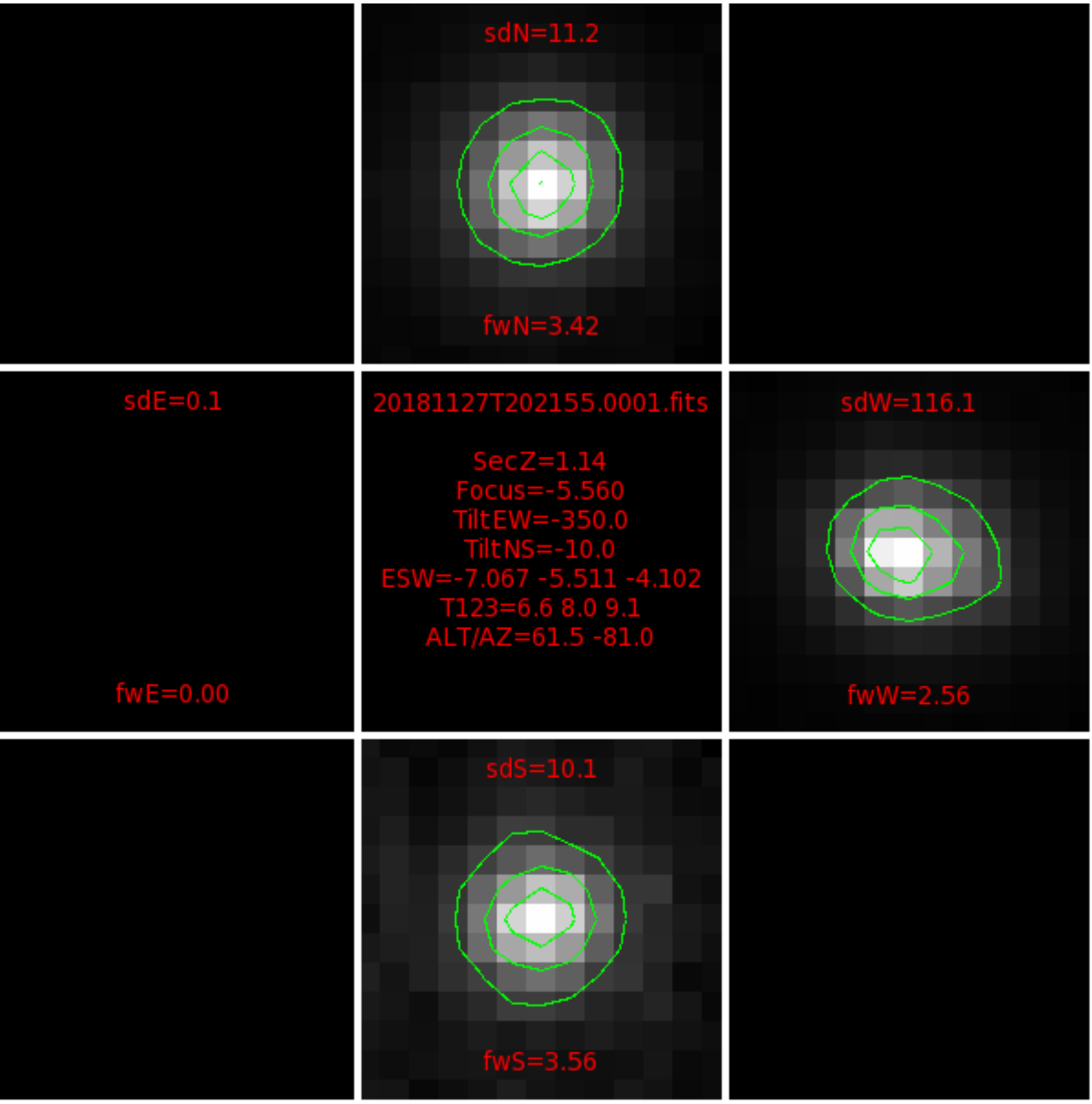
sdN=11.2
fwN=3.42
sdE=0.1
fwE=0.00
20181127T202155.0001.fits
SecZ=1.14
Focus=-5.560
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.067 -5.511 -4.102
T123=6.6 8.0 9.1
ALT/AZ=61.5 -81.0
sdW=116.1
fwW=2.56
sdS=10.1
fwS=3.56
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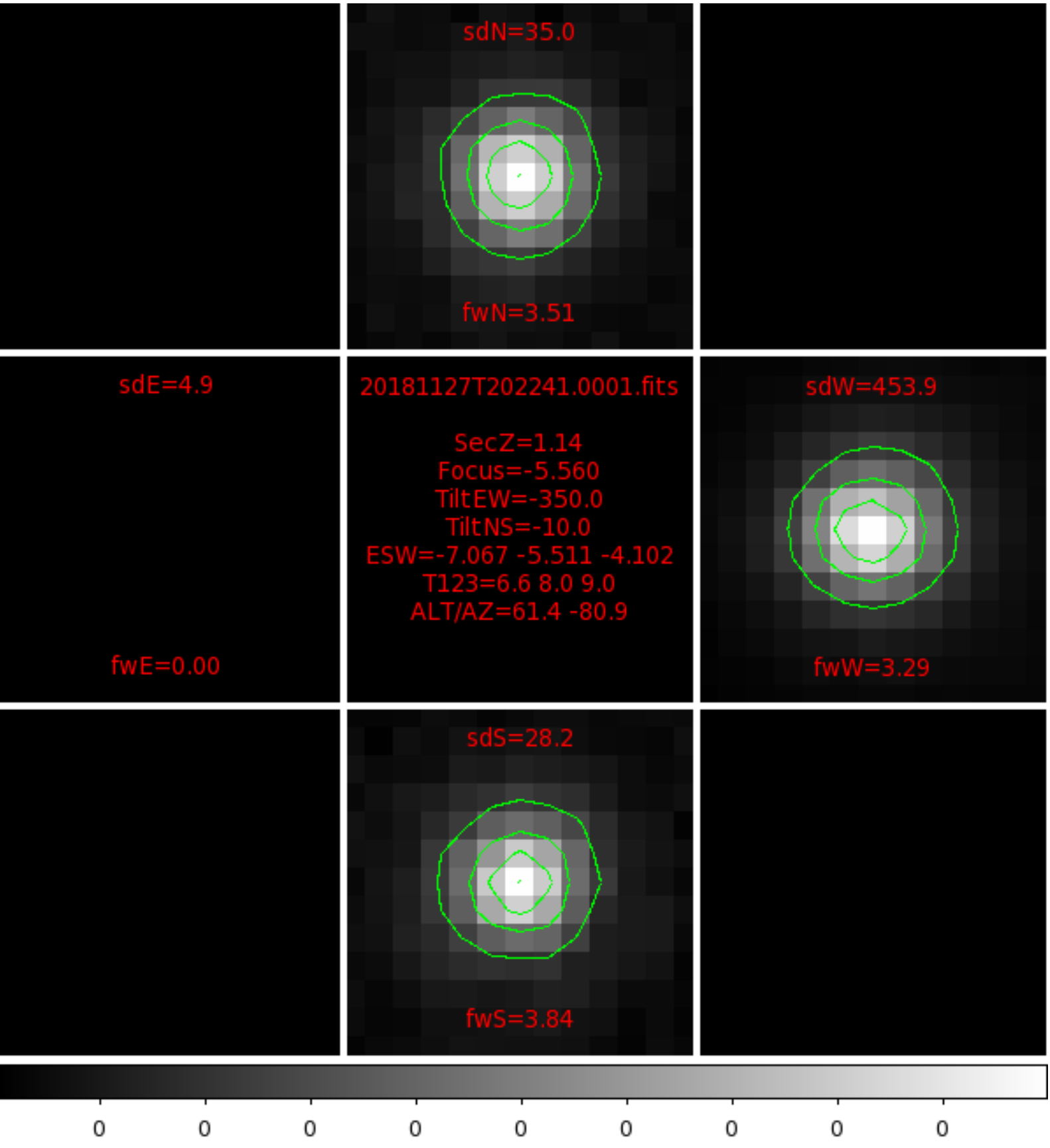
sdN=35.0
fwN=3.51
sdE=4.9
fwE=0.00
20181127T202241.0001.fits
SecZ=1.14
Focus=-5.560
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.067 -5.511 -4.102
T123=6.6 8.0 9.0
ALT/AZ=61.4 -80.9
sdW=453.9
fwW=3.29
sdS=28.2
fwS=3.84
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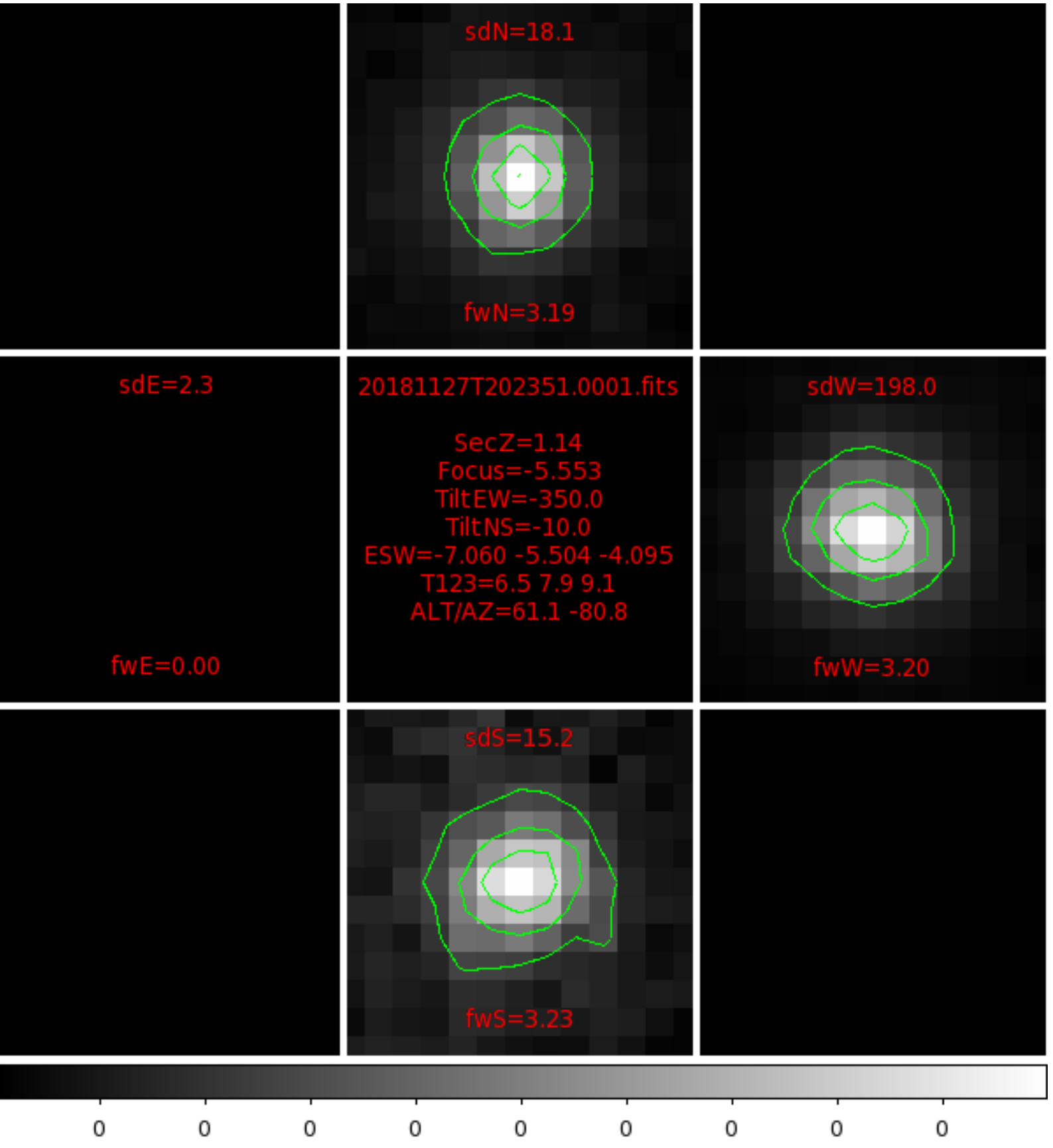
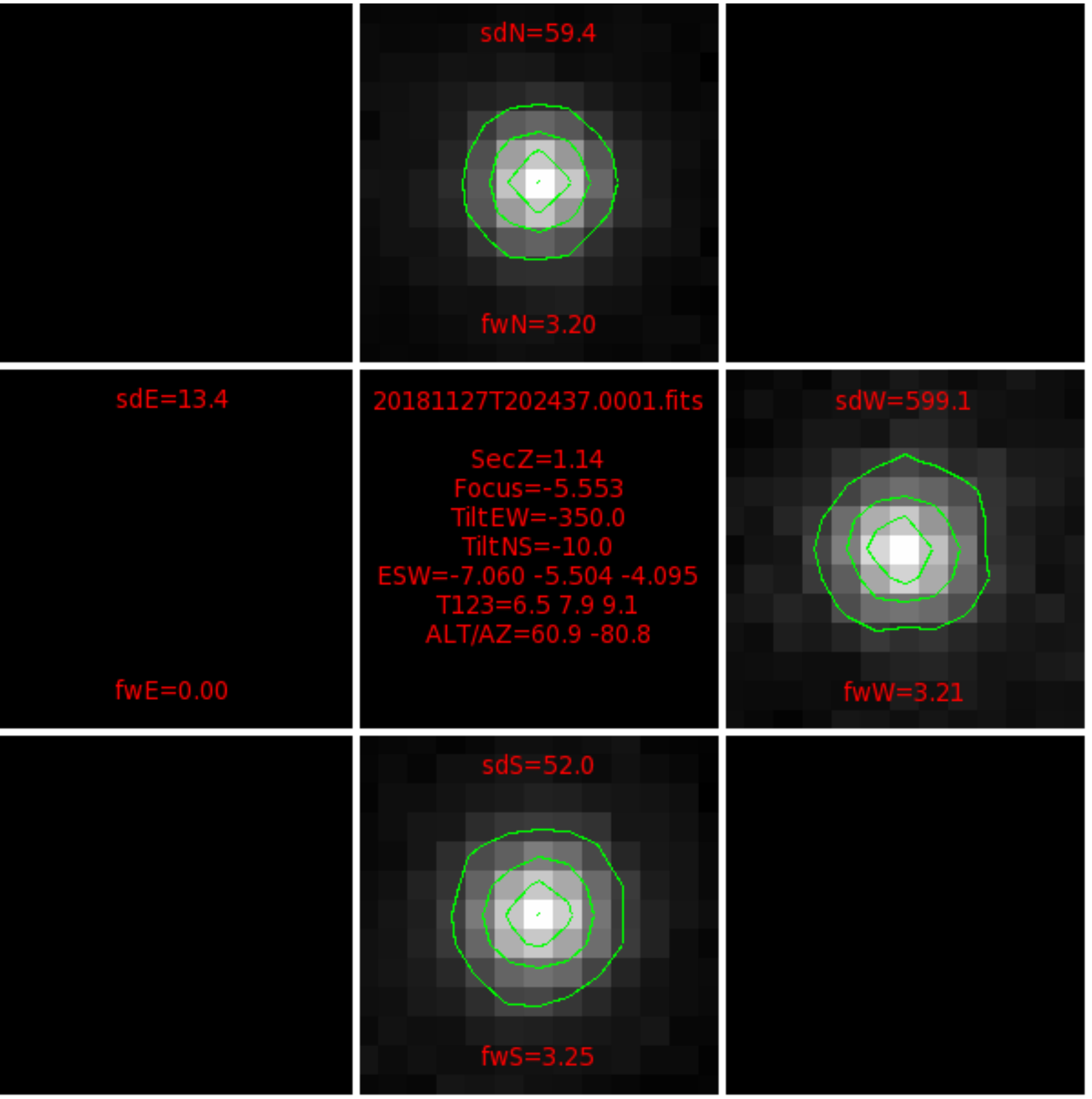

sdN=18.1
fwN=3.19
sdE=2.3
fwE=0.00
20181127T202351.0001.fits
SecZ=1.14
Focus=-5.553
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.060 -5.504 -4.095
T123=6.5 7.9 9.1
ALT/AZ=61.1 -80.8
sdW=198.0
fwW=3.20
sdS=15.2
fwS=3.23
0 0 0 0 0 0 0 0 0


sdN=59.4
fwN=3.20
sdE=13.4
fwE=0.00
20181127T202437.0001.fits
SecZ=1.14
Focus=-5.553
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.060 -5.504 -4.095
T123=6.5 7.9 9.1
ALT/AZ=60.9 -80.8
sdW=599.1
fwW=3.21
sdS=52.0
fwS=3.25
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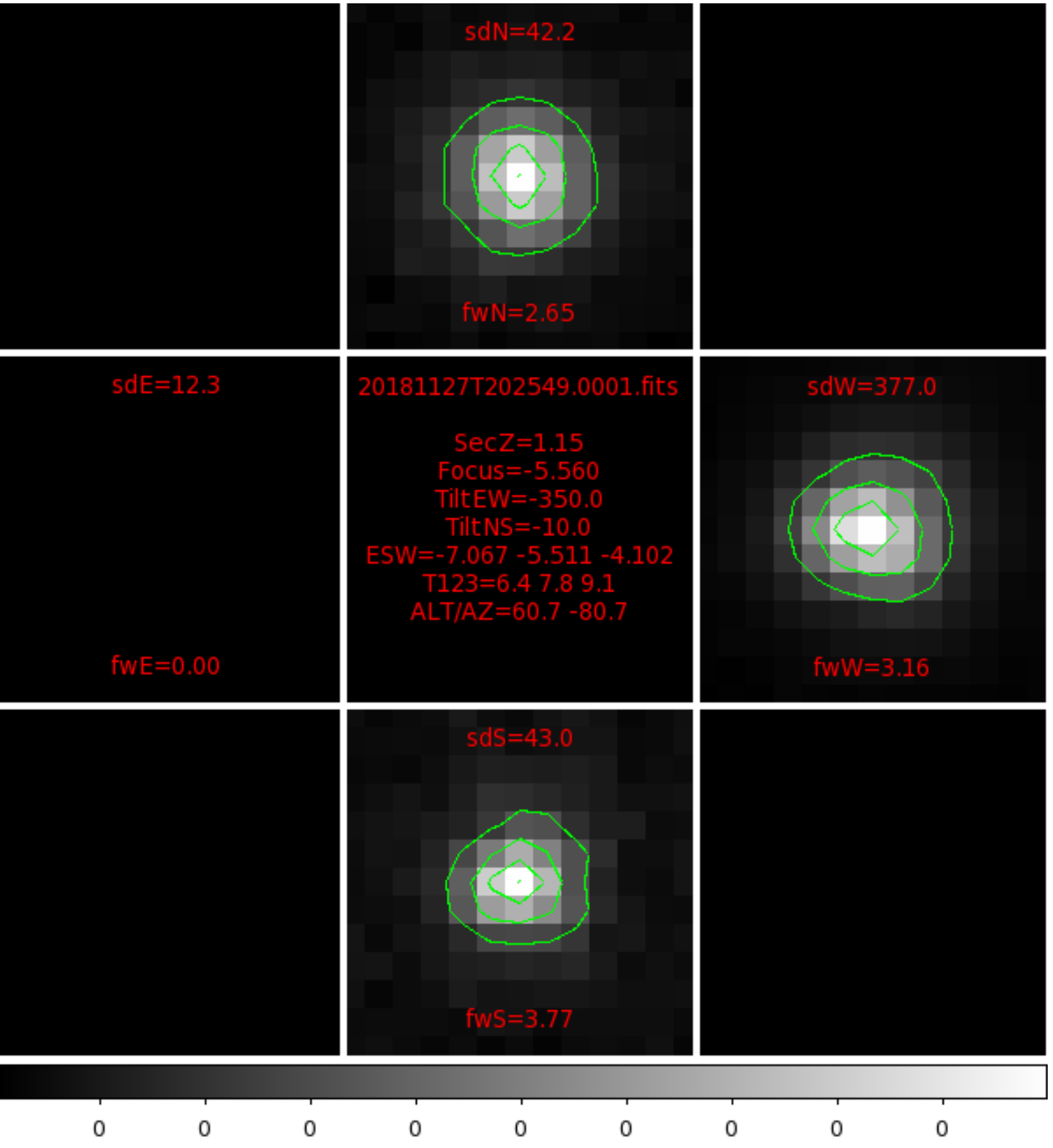
sdN=42.2
fwN=2.65
sdE=12.3
fwE=0.00
20181127T202549.0001.fits
SecZ=1.15
Focus=-5.560
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.067 -5.511 -4.102
T123=6.4 7.8 9.1
ALT/AZ=60.7 -80.7
sdW=377.0
fwW=3.16
sdS=43.0
fwS=3.77
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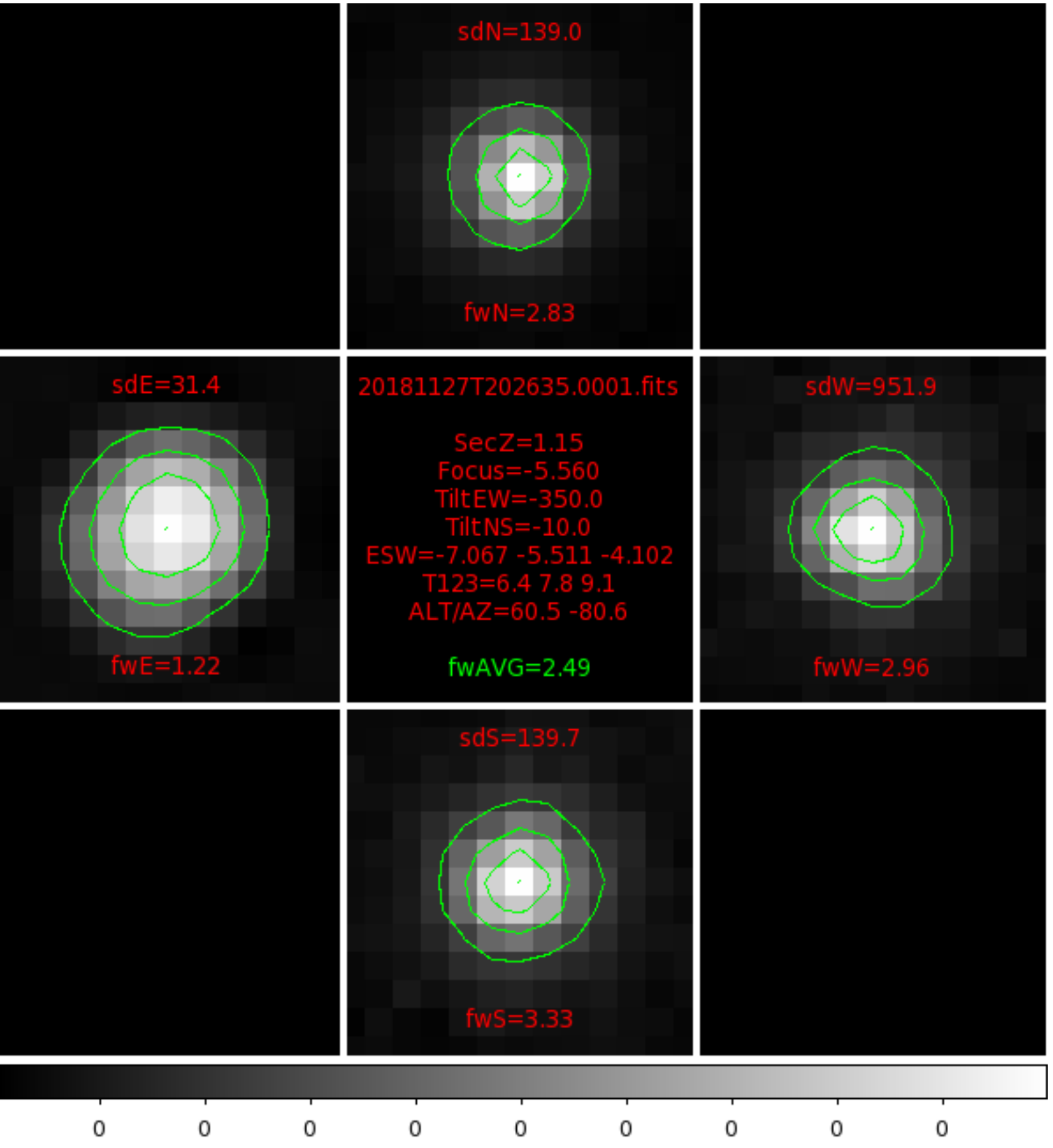
sdN=139.0
fwN=2.83
sdE=31.4
fwE=1.22
20181127T202635.0001.fits
SecZ=1.15
Focus=-5.560
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.067 -5.511 -4.102
T123=6.4 7.8 9.1
ALT/AZ=60.5 -80.6
fwAVG=2.49
sdW=951.9
fwW=2.96
sdS=139.7
fwS=3.33
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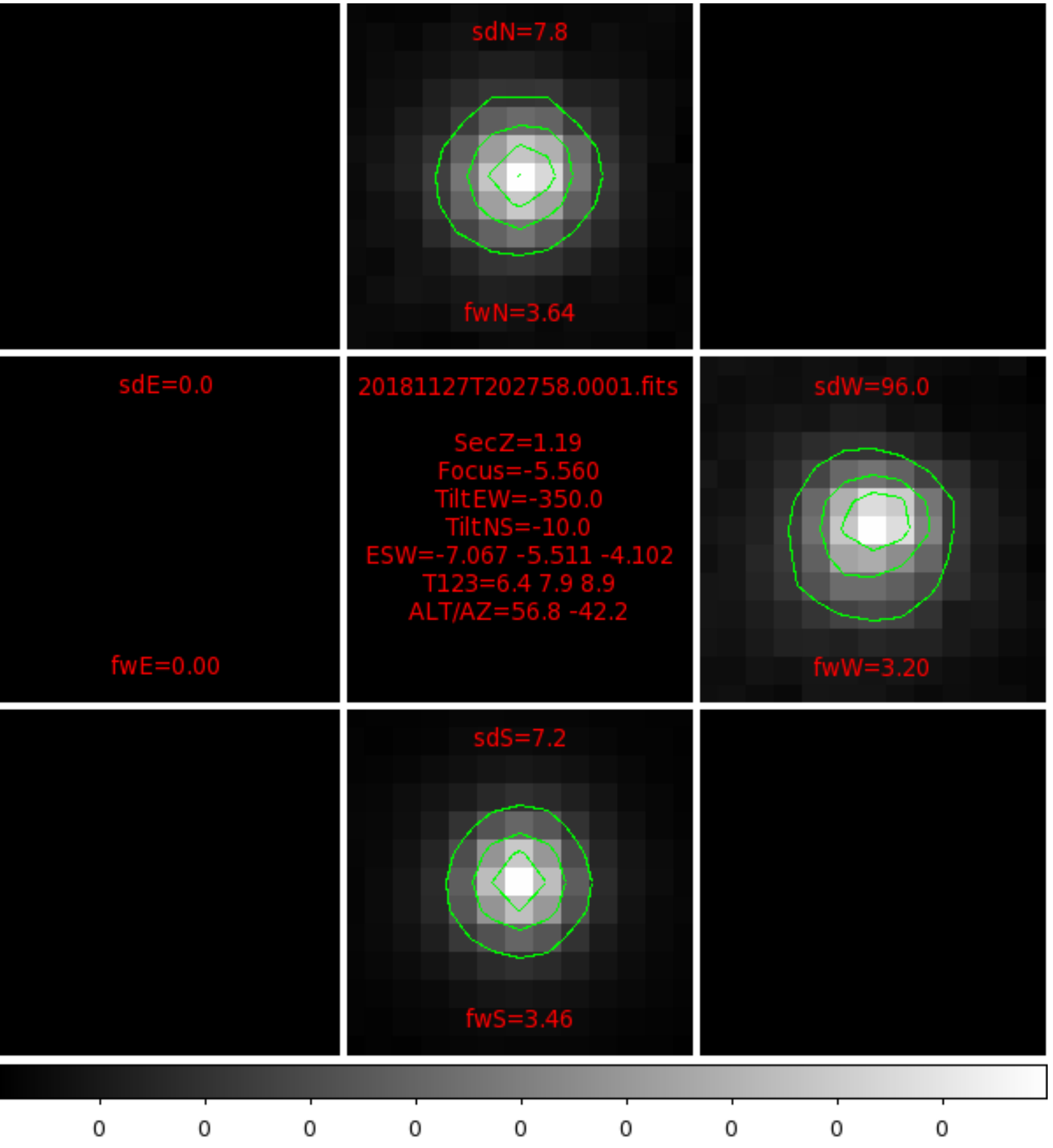
sdN=7.8
fwN=3.64
sdE=0.0
fwE=0.00
20181127T202758.0001.fits
SecZ=1.19
Focus=-5.560
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.067 -5.511 -4.102
T123=6.4 7.9 8.9
ALT/AZ=56.8 -42.2
sdW=96.0
fwW=3.20
sdS=7.2
fwS=3.46
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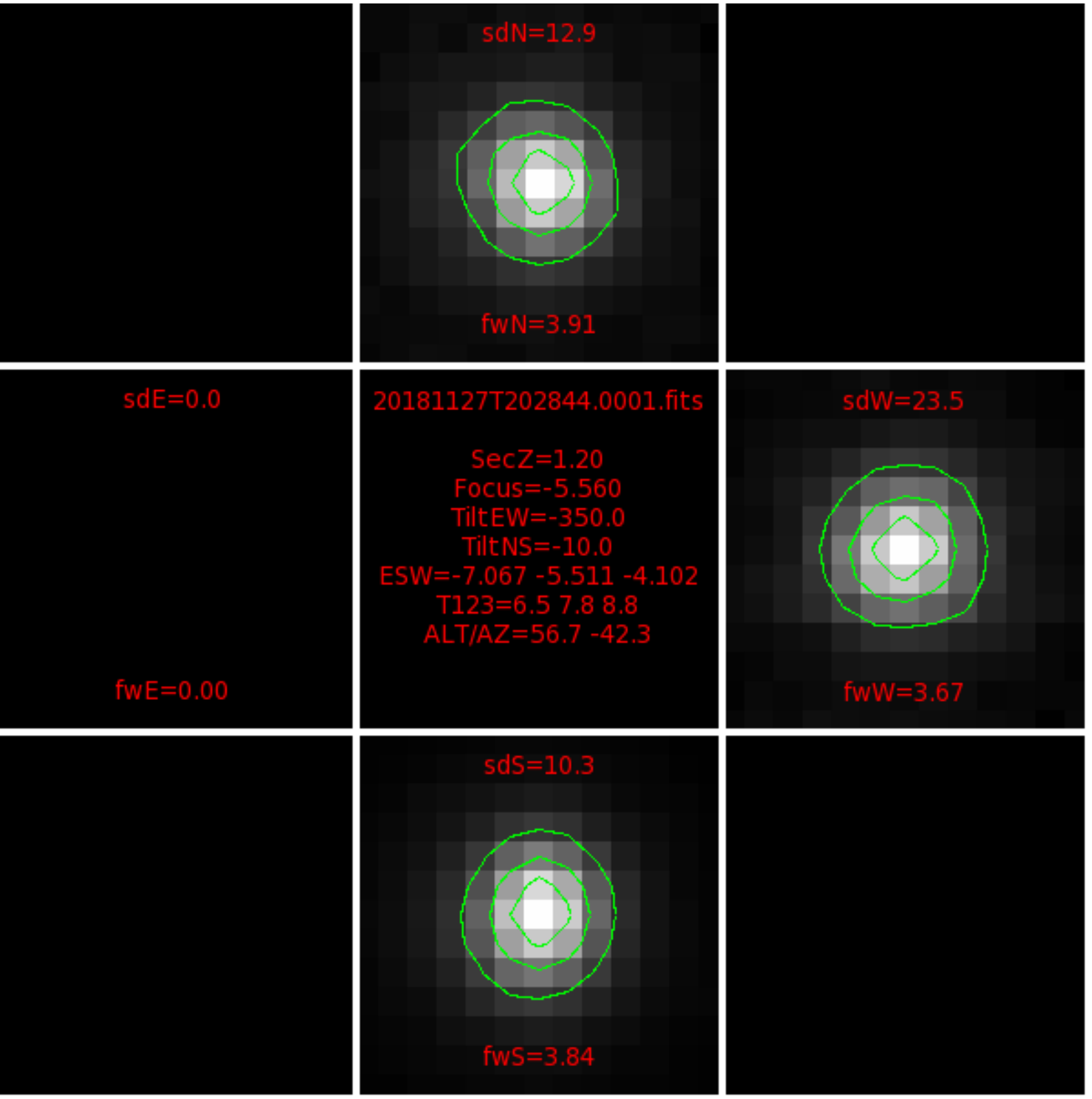
sdN=12.9
fwN=3.91
sdE=0.0
fwE=0.00
20181127T202844.0001.fits
SecZ=1.20
Focus=-5.560
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.067 -5.511 -4.102
T123=6.5 7.8 8.8
ALT/AZ=56.7 -42.3
sdW=23.5
fwW=3.67
sdS=10.3
fwS=3.84
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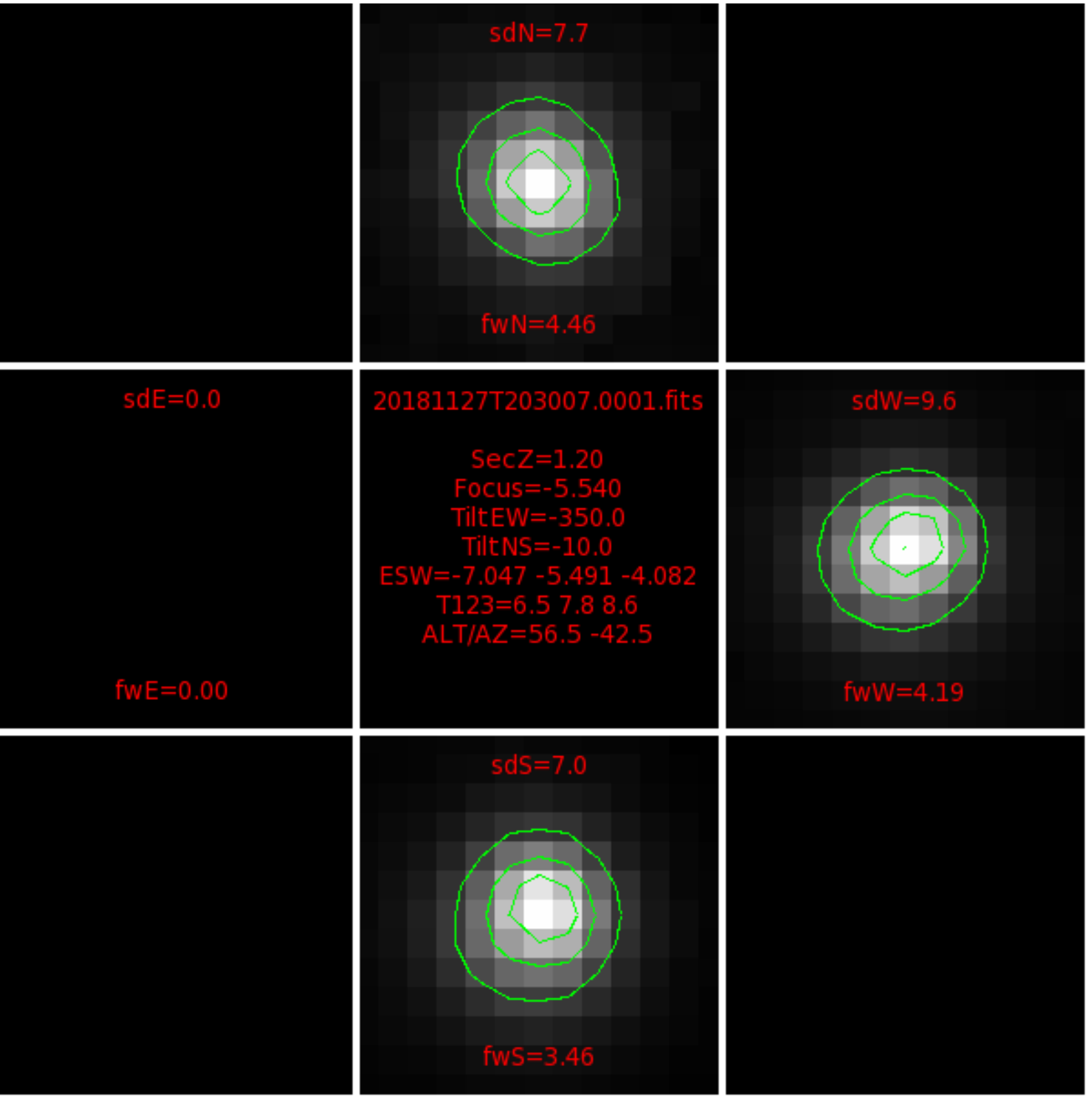
sdN=7.7
fwN=4.46
sdE=0.0
fwE=0.00
20181127T203007.0001.fits
SecZ=1.20
Focus=-5.540
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.047 -5.491 -4.082
T123=6.5 7.8 8.6
ALT/AZ=56.5 -42.5
sdW=9.6
fwW=4.19
sdS=7.0
fwS=3.46
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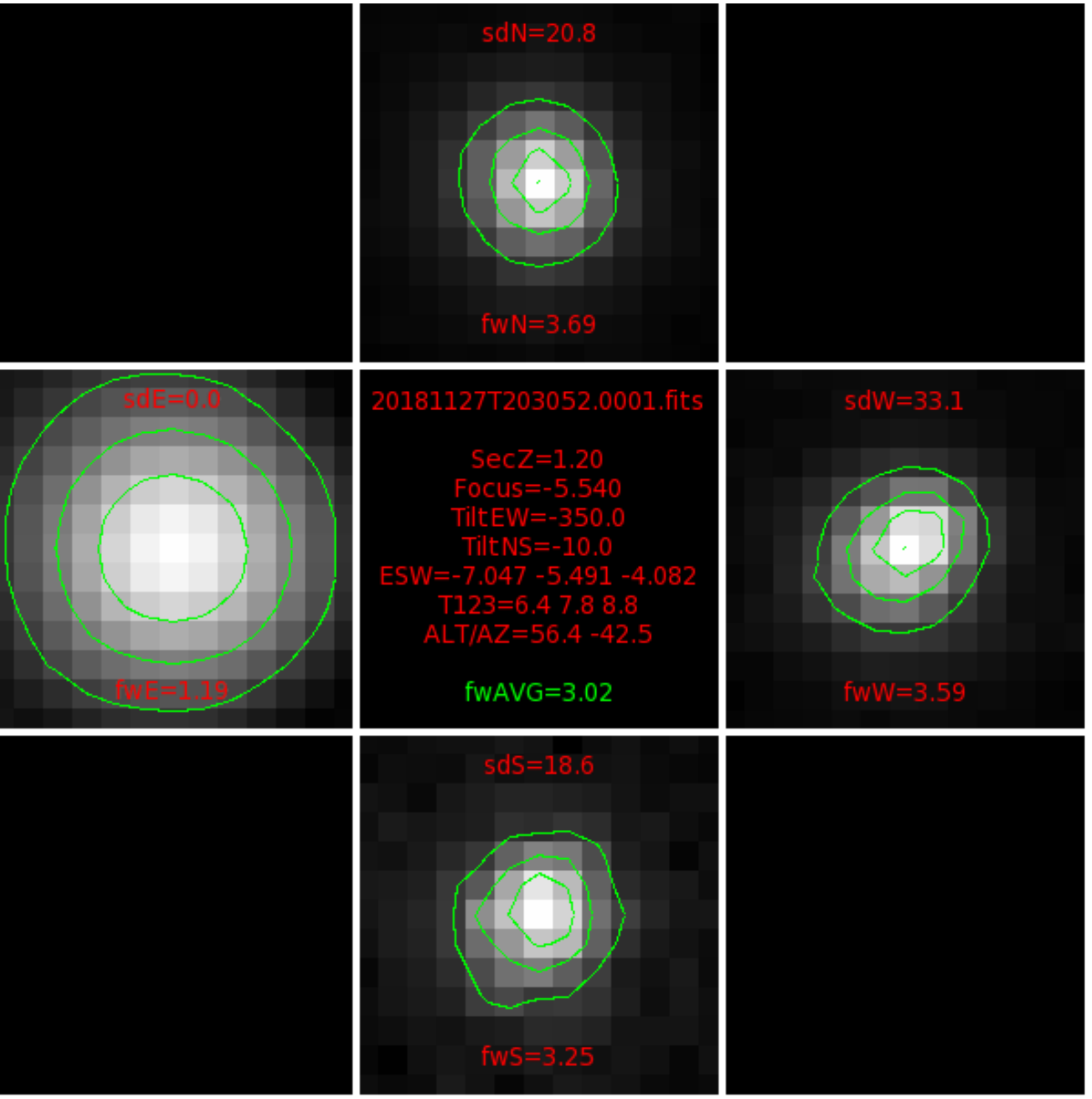
sdN=20.8
fwN=3.69
sdE=0.0
fwE=1.19
20181127T203052.0001.fits
SecZ=1.20
Focus=-5.540
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.047 -5.491 -4.082
T123=6.4 7.8 8.8
ALT/AZ=56.4 -42.5
fwAVG=3.02
sdW=33.1
fwW=3.59
sdS=18.6
fwS=3.25
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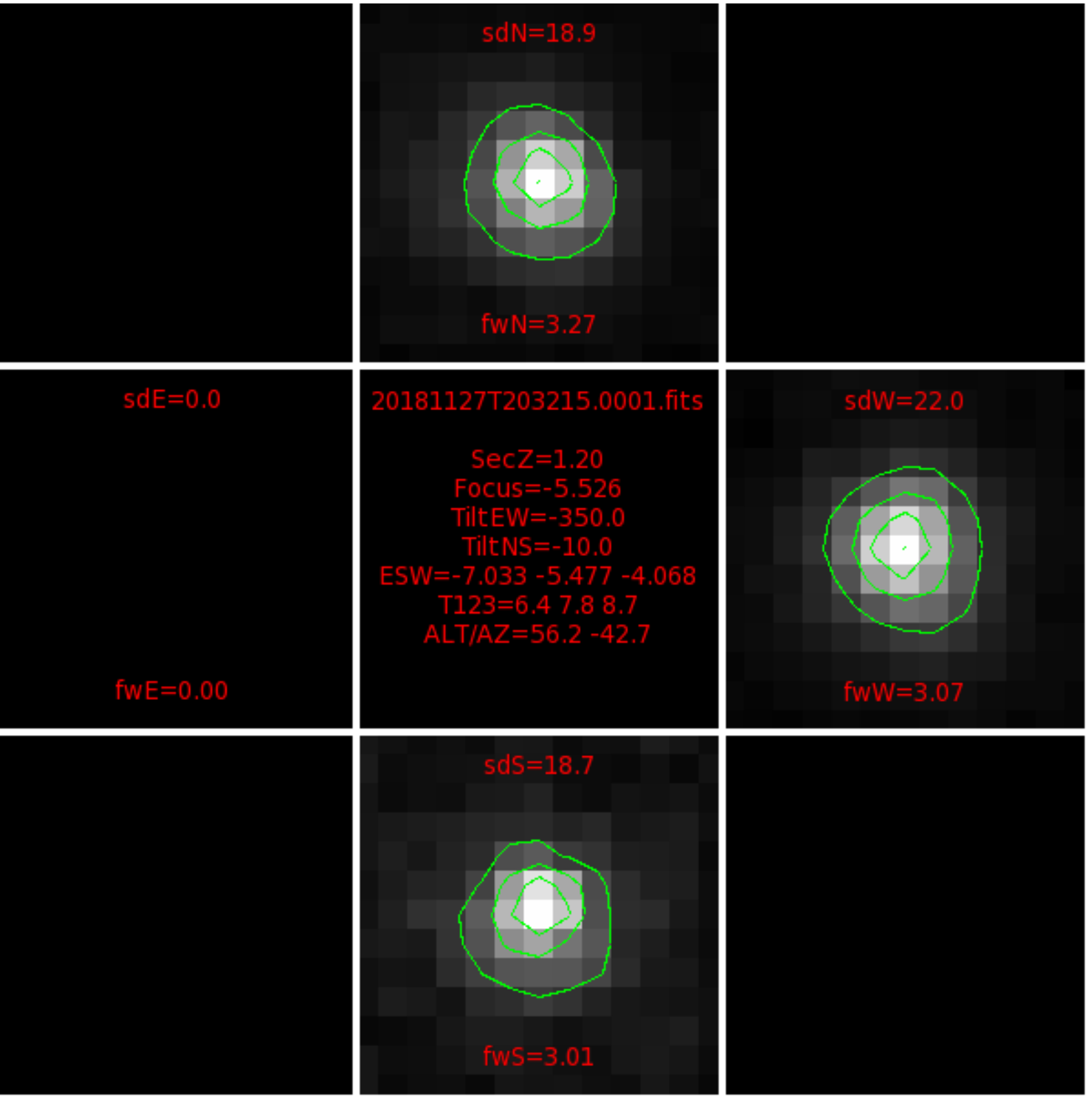
sdN=18.9
fwN=3.27
sdE=0.0
fwE=0.00
20181127T203215.0001.fits
SecZ=1.20
Focus=-5.526
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.033 -5.477 -4.068
T123=6.4 7.8 8.7
ALT/AZ=56.2 -42.7
sdW=22.0
fwW=3.07
sdS=18.7
fwS=3.01
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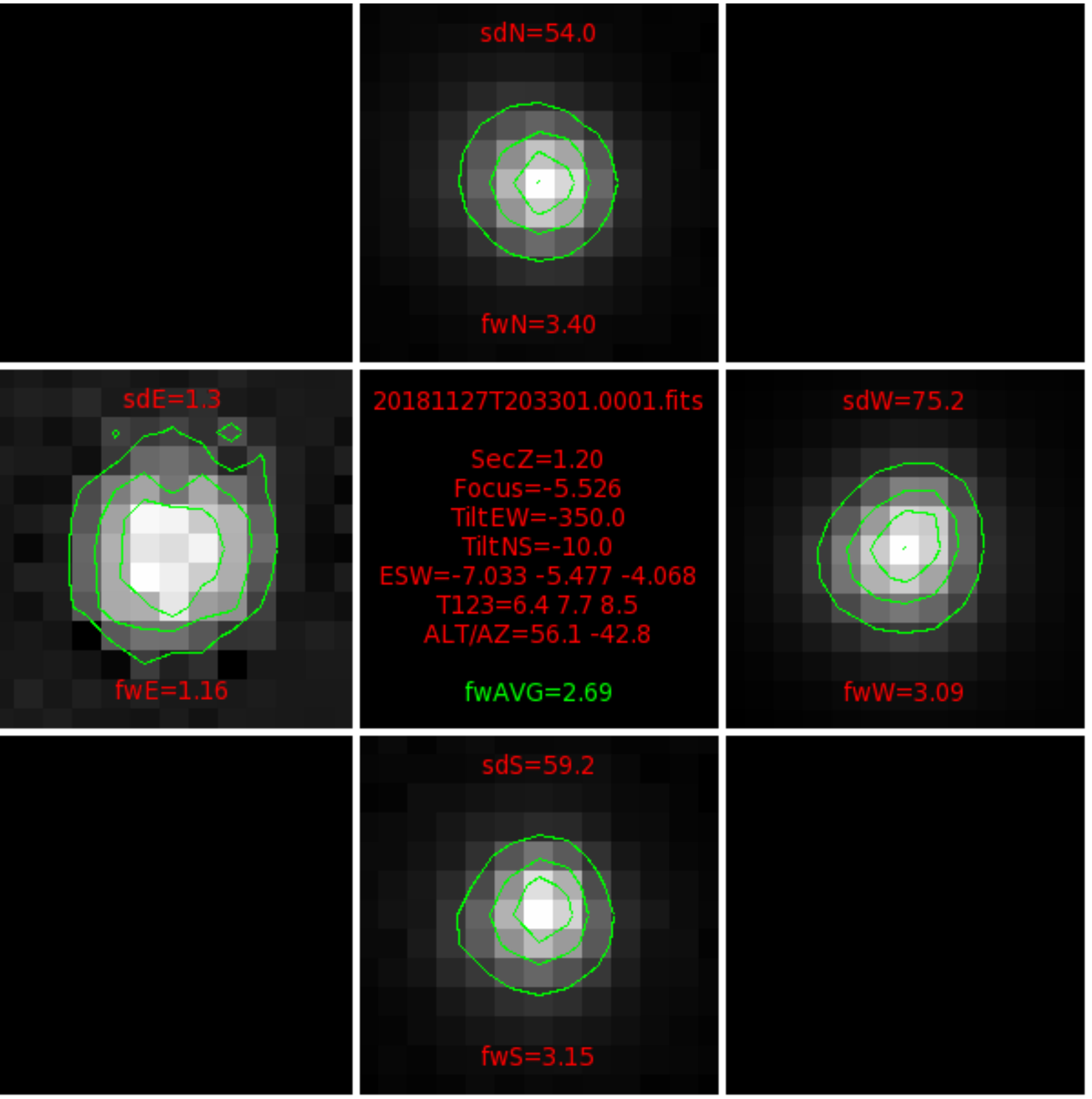
sdN=54.0
fwN=3.40
sdE=1.3
fwE=1.16
20181127T203301.0001.fits
SecZ=1.20
Focus=-5.526
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.033 -5.477 -4.068
T123=6.4 7.7 8.5
ALT/AZ=56.1 -42.8
fwAVG=2.69
sdW=75.2
fwW=3.09
sdS=59.2
fwS=3.15
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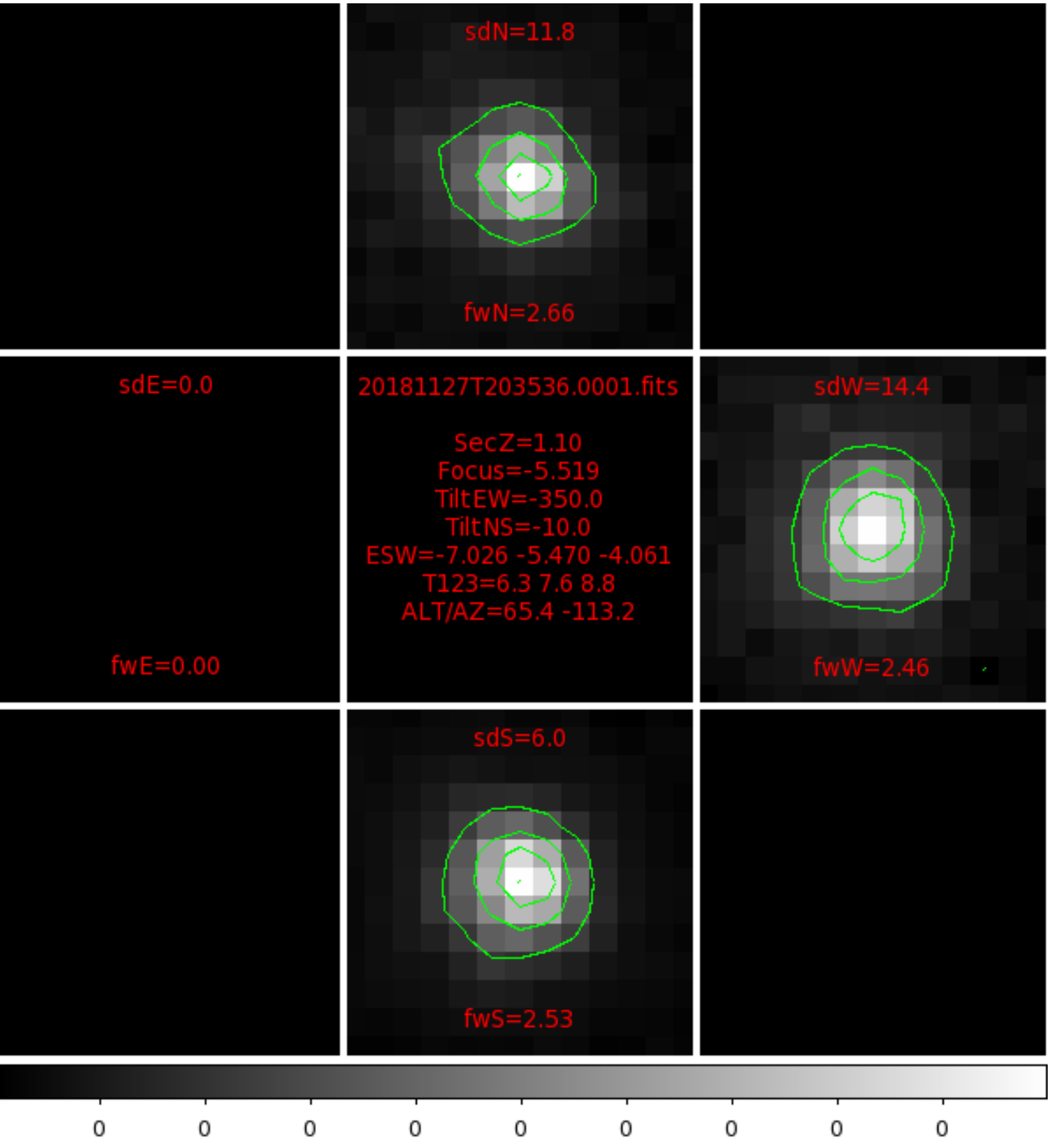
sdN=11.8
fwN=2.66
sdE=0.0
fwE=0.00
20181127T203536.0001.fits
SecZ=1.10
Focus=-5.519
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.026 -5.470 -4.061
T123=6.3 7.6 8.8
ALT/AZ=65.4 -113.2
sdW=14.4
fwW=2.46
sdS=6.0
fwS=2.53
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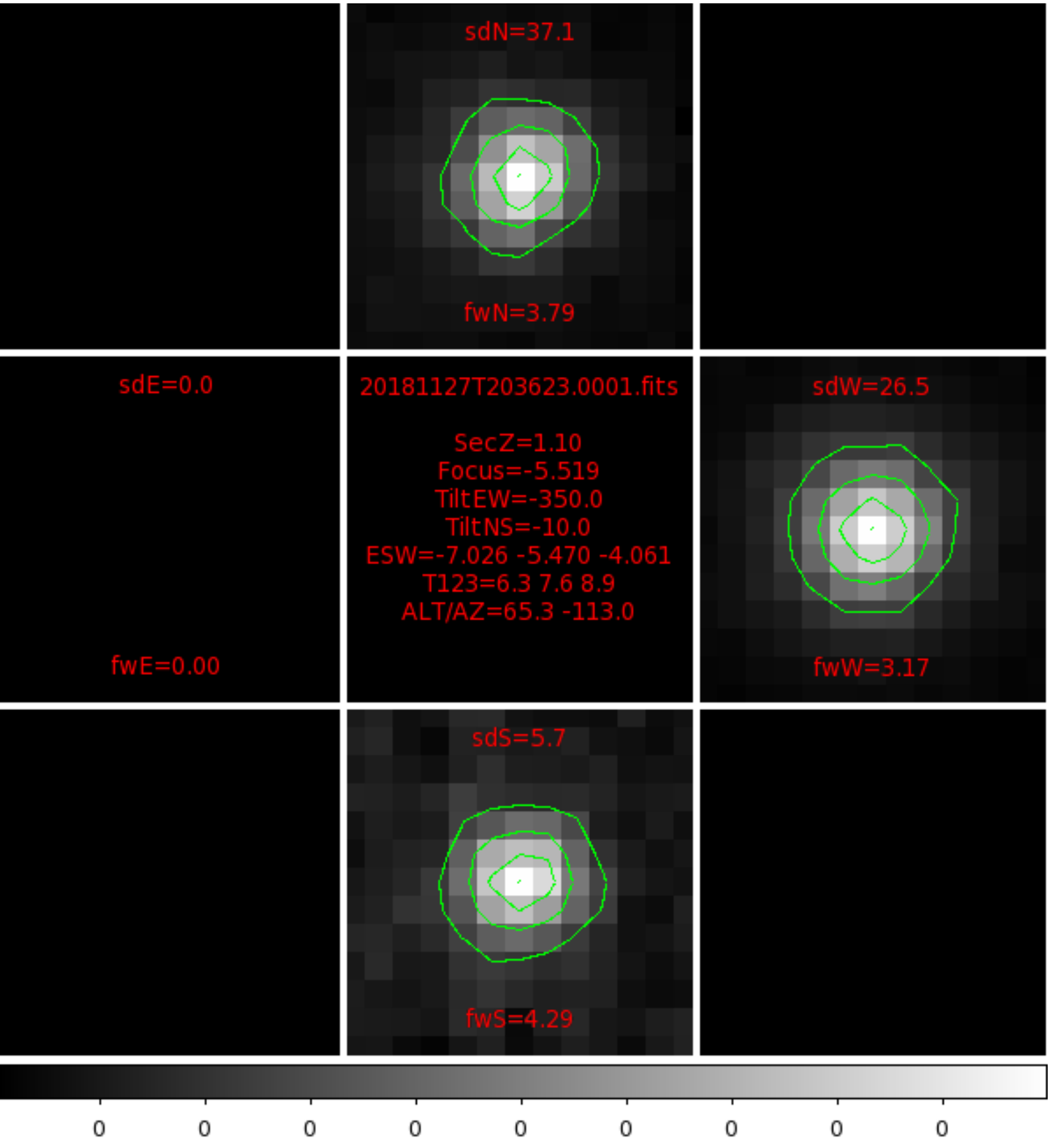
sdN=37.1
fwN=3.79
sdE=0.0
fwE=0.00
20181127T203623.0001.fits
SecZ=1.10
Focus=-5.519
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.026 -5.470 -4.061
T123=6.3 7.6 8.9
ALT/AZ=65.3 -113.0
sdW=26.5
fwW=3.17
sdS=5.7
fwS=4.29
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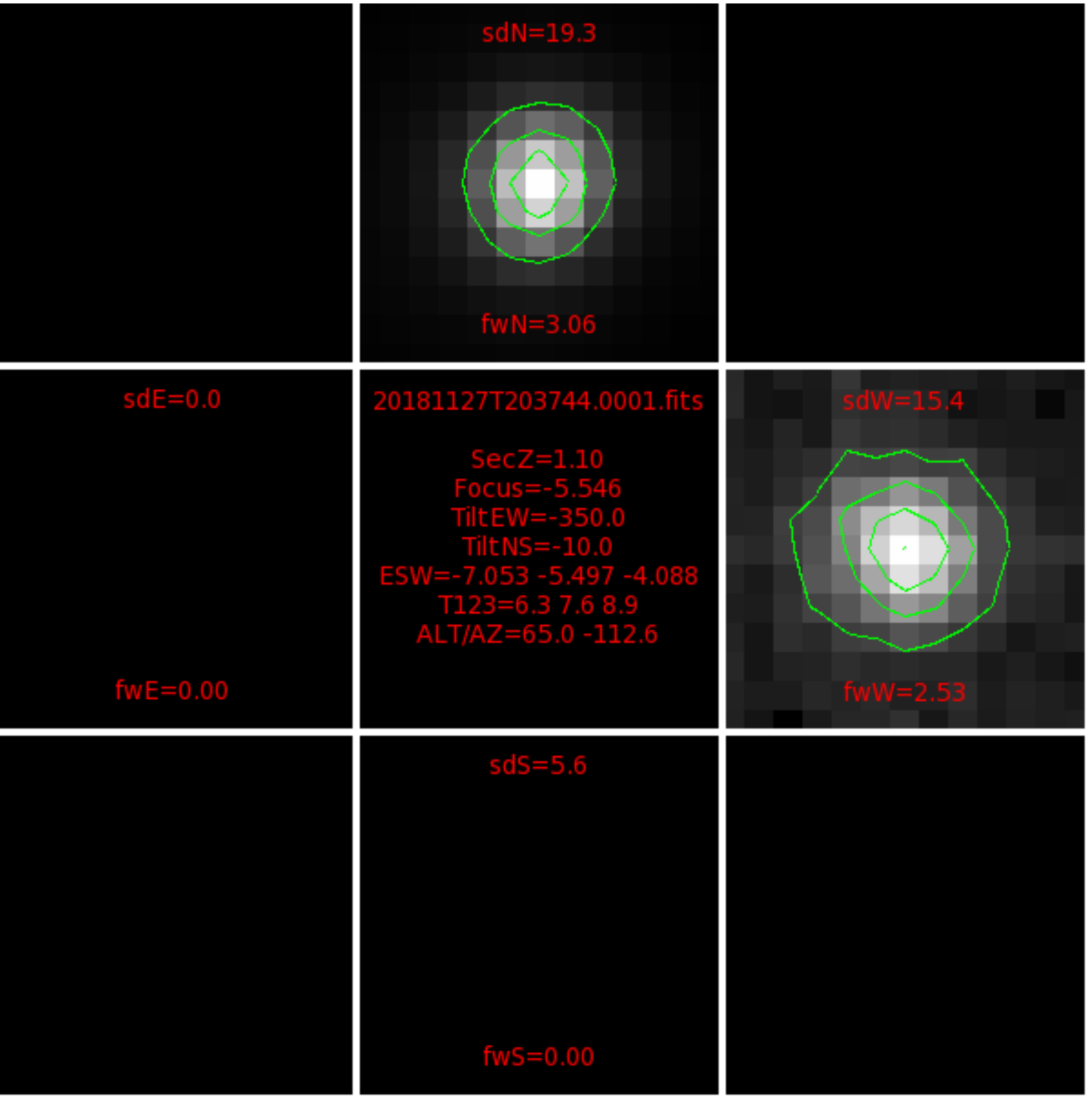
sdN=19.3
fwN=3.06
sdE=0.0
fwE=0.00
20181127T203744.0001.fits
SecZ=1.10
Focus=-5.546
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.053 -5.497 -4.088
T123=6.3 7.6 8.9
ALT/AZ=65.0 -112.6
sdW=15.4
fwW=2.53
sdS=5.6
fwS=0.00
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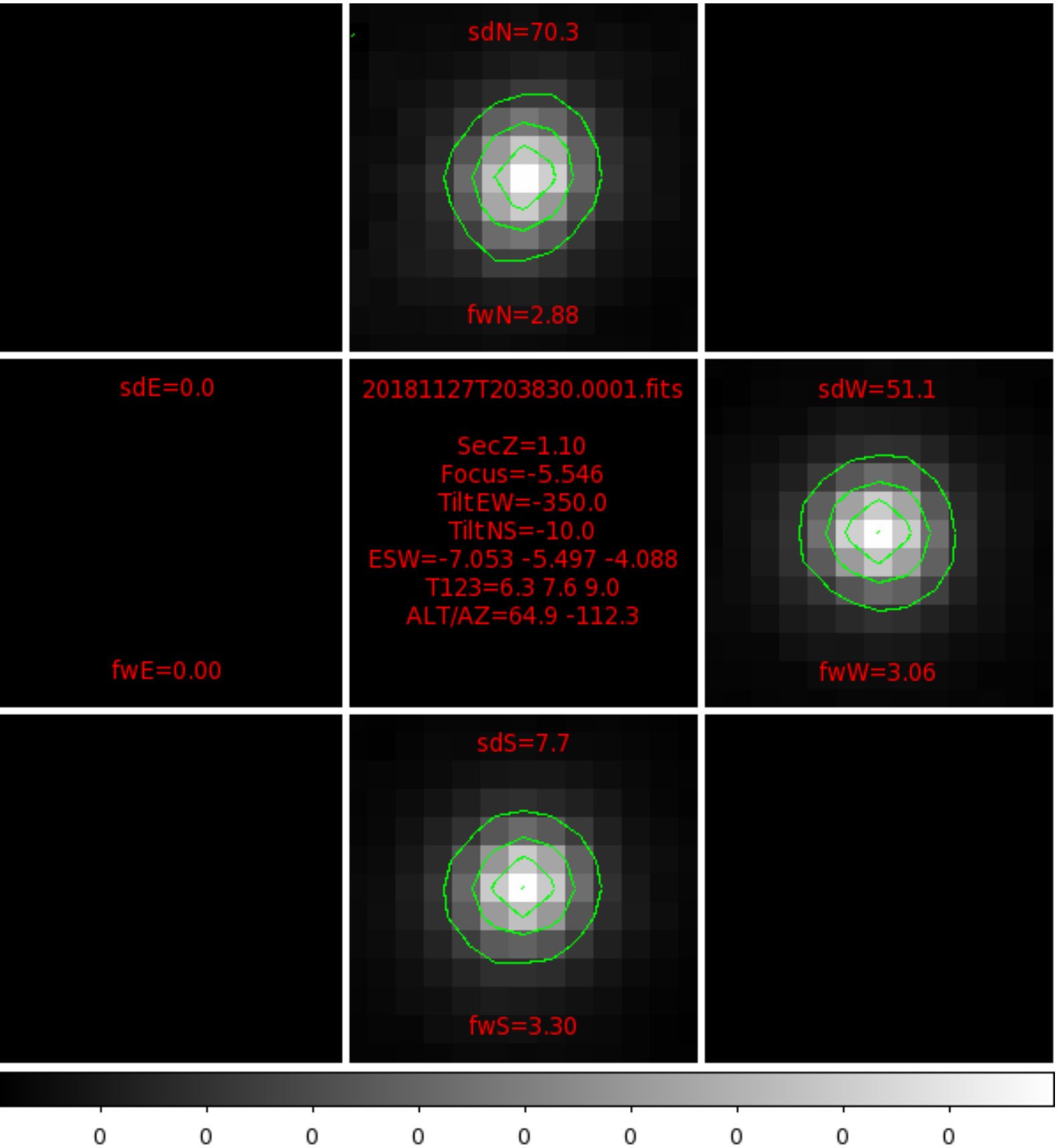
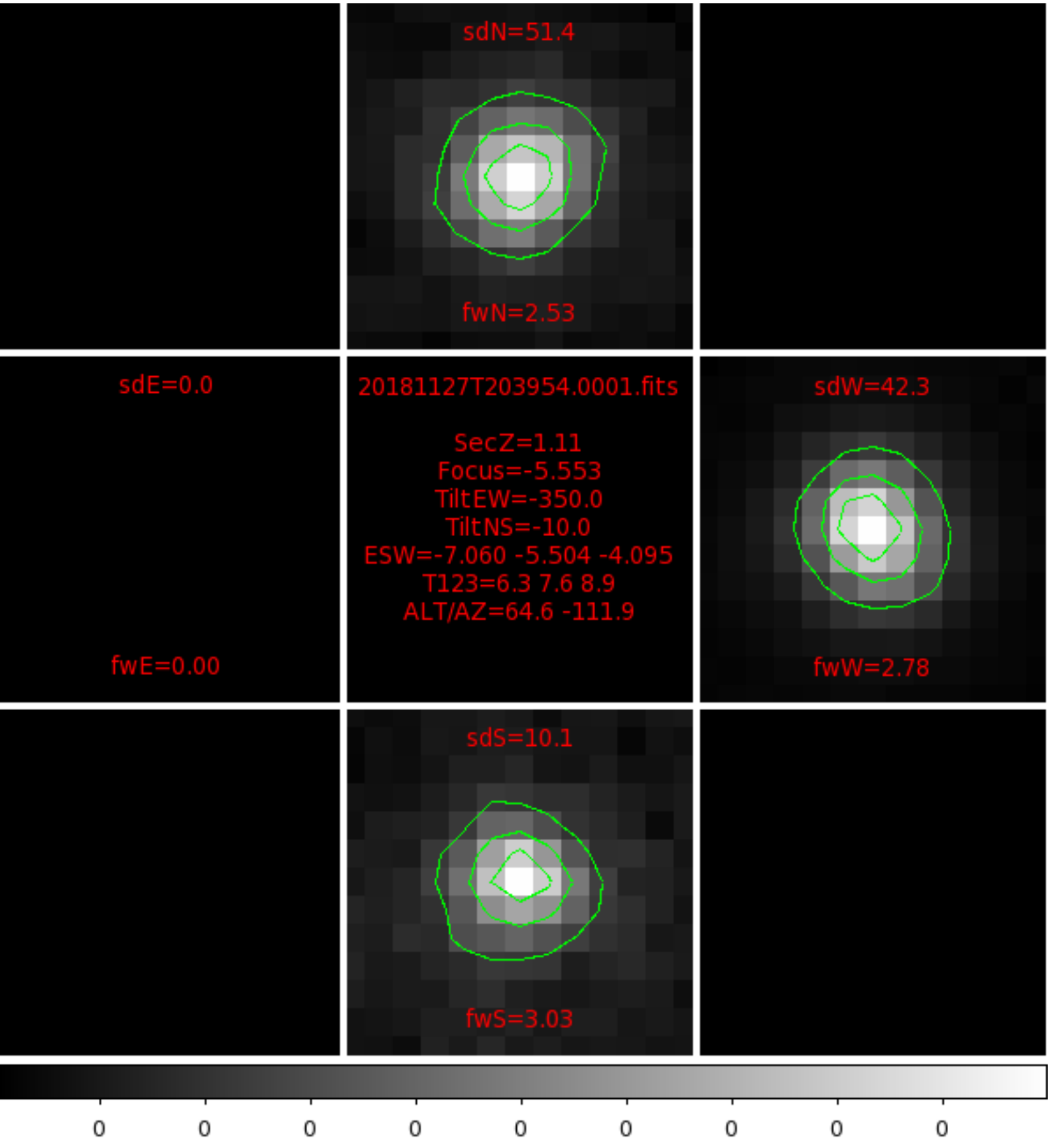

sdN=70.3
fwN=2.88
sdE=0.0
fwE=0.00
20181127T203830.0001.fits
SecZ=1.10
Focus=-5.546
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.053 -5.497 -4.088
T123=6.3 7.6 9.0
ALT/AZ=64.9 -112.3
sdW=51.1
fwW=3.06
sdS=7.7
fwS=3.30
0 0 0 0 0 0 0 0 0


sdN=51.4
fwN=2.53
sdE=0.0
fwE=0.00
20181127T203954.0001.fits
SecZ=1.11
Focus=-5.553
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.060 -5.504 -4.095
T123=6.3 7.6 8.9
ALT/AZ=64.6 -111.9
sdW=42.3
fwW=2.78
sdS=10.1
fwS=3.03
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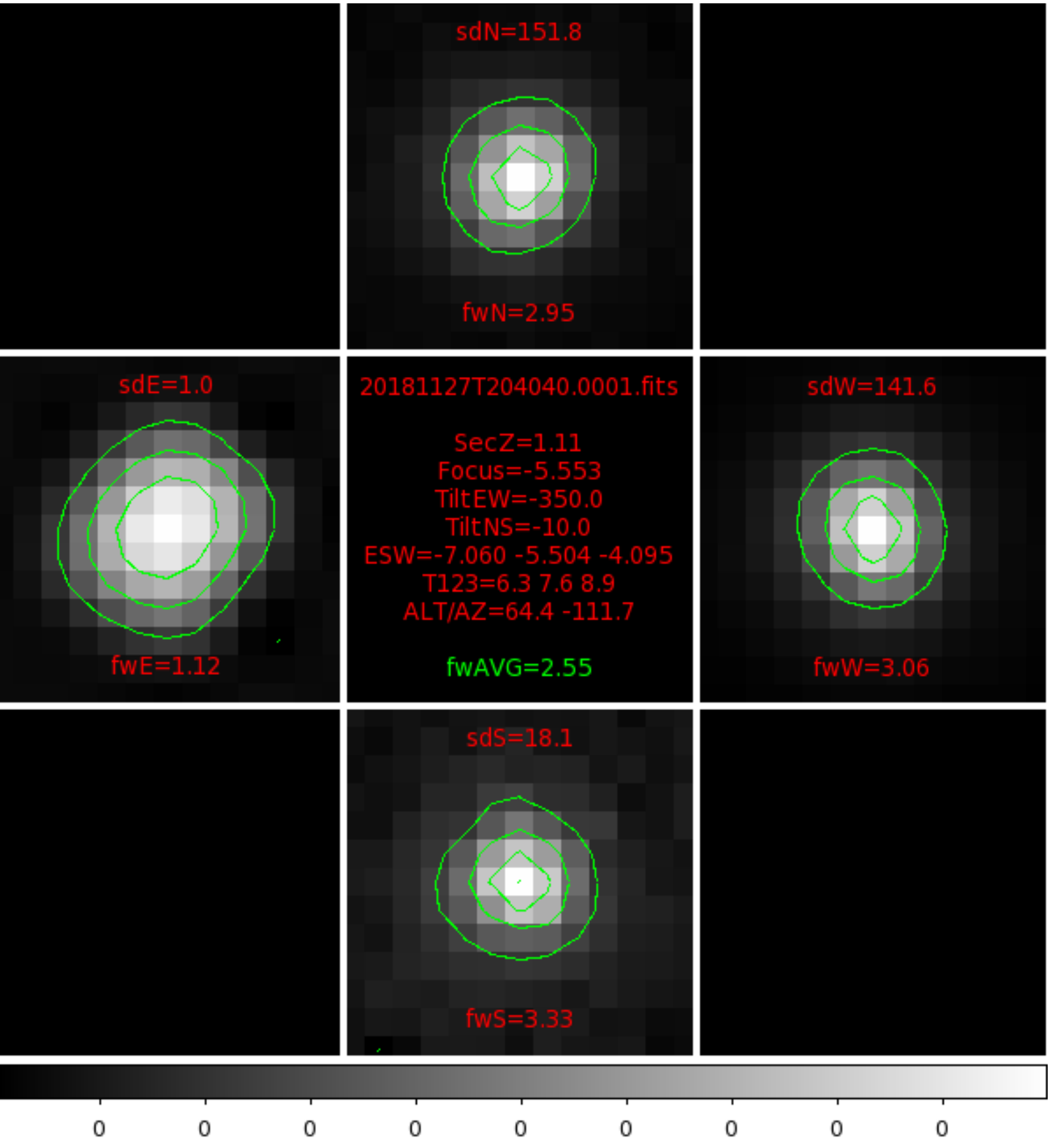
sdN=151.8
fwN=2.95
sdE=1.0
fwE=1.12
20181127T204040.0001.fits
SecZ=1.11
Focus=-5.553
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.060 -5.504 -4.095
T123=6.3 7.6 8.9
ALT/AZ=64.4 -111.7
fwAVG=2.55
sdW=141.6
fwW=3.06
sdS=18.1
fwS=3.33
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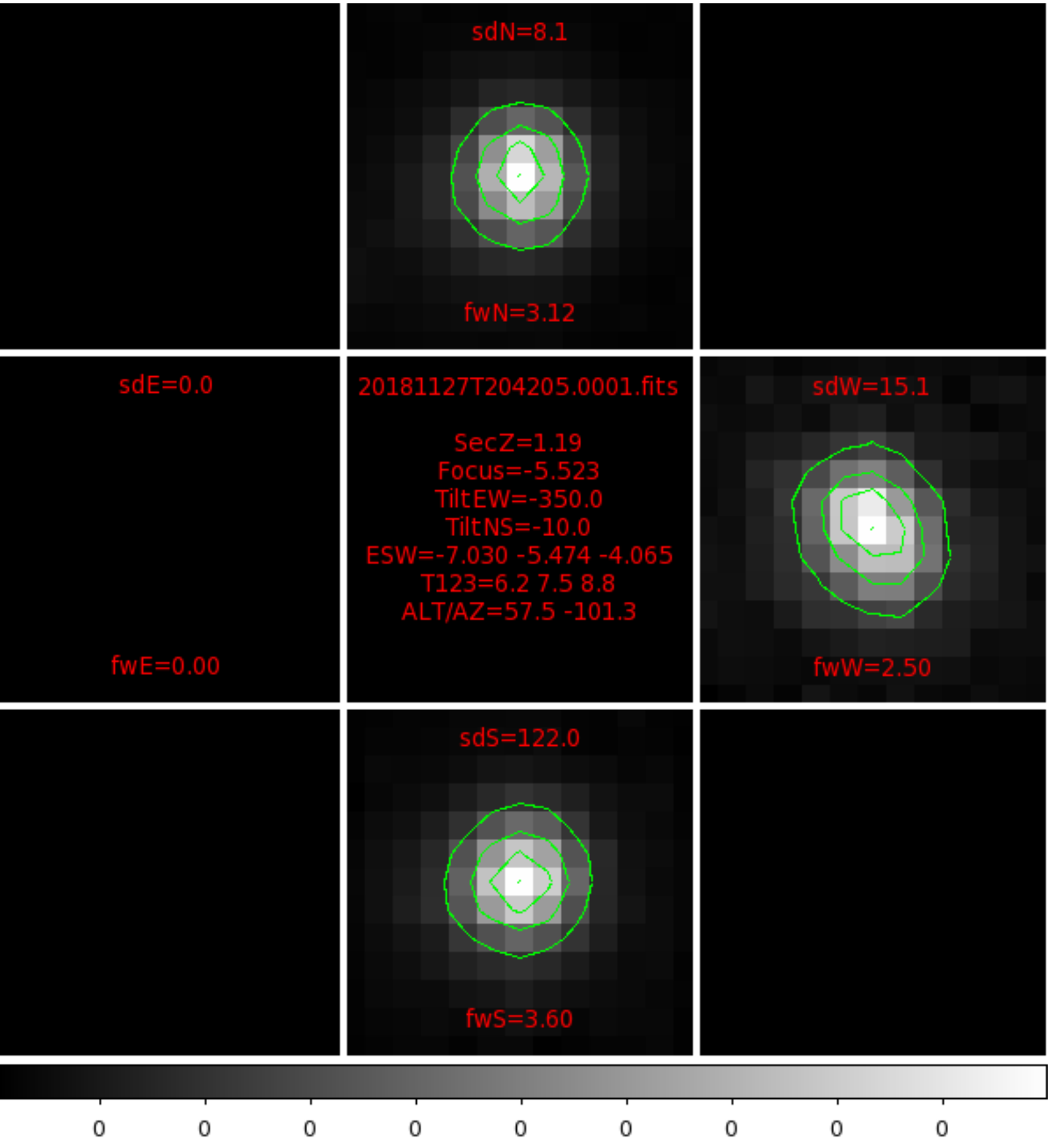
sdN=8.1
fwN=3.12
sdE=0.0
fwE=0.00
20181127T204205.0001.fits
SecZ=1.19
Focus=-5.523
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.030 -5.474 -4.065
T123=6.2 7.5 8.8
ALT/AZ=57.5 -101.3
sdW=15.1
fwW=2.50
sdS=122.0
fwS=3.60
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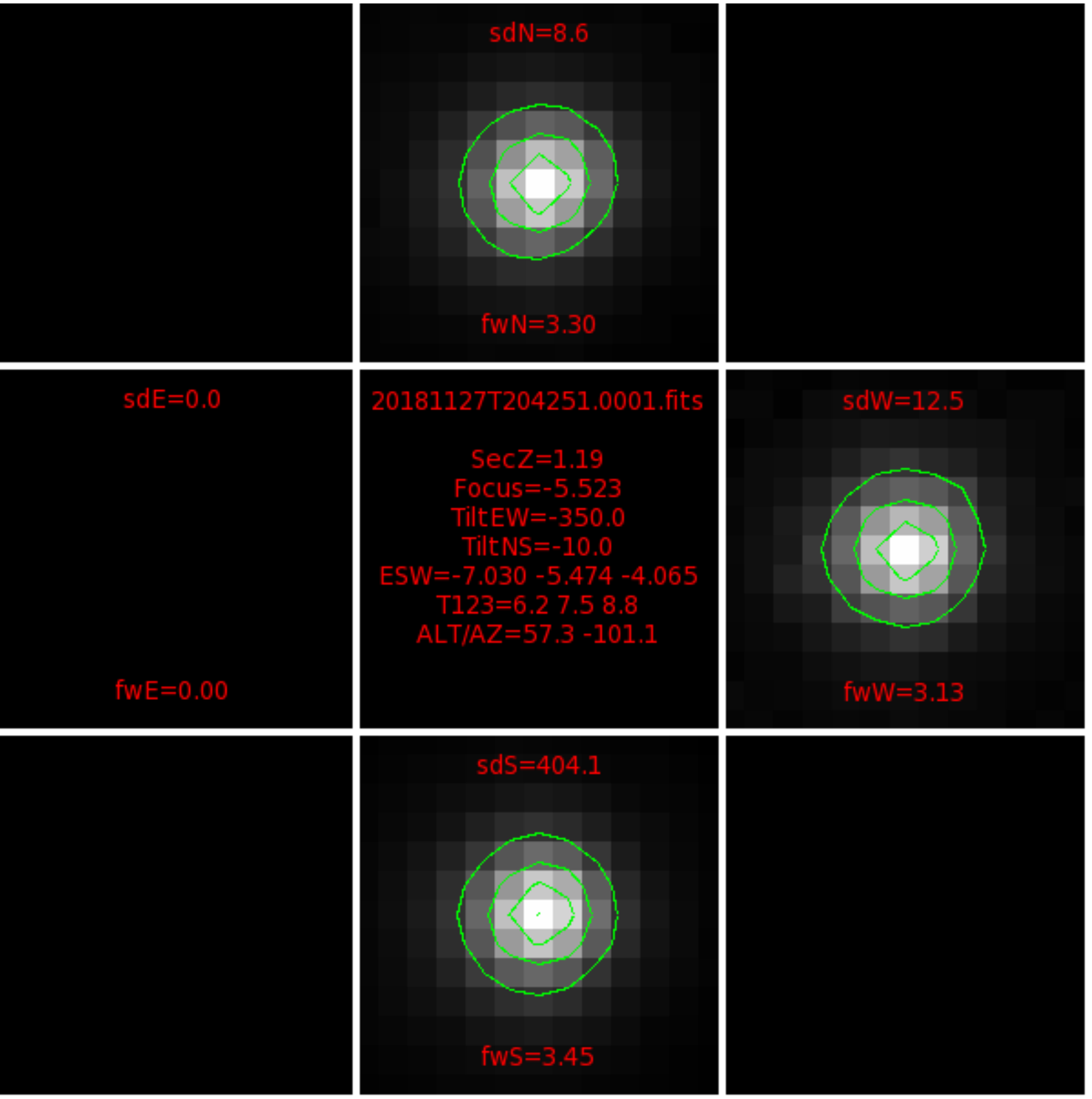
sdN=8.6
fwN=3.30
sdE=0.0
fwE=0.00
20181127T204251.0001.fits
SecZ=1.19
Focus=-5.523
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.030 -5.474 -4.065
T123=6.2 7.5 8.8
ALT/AZ=57.3 -101.1
sdW=12.5
fwW=3.13
sdS=404.1
fwS=3.45
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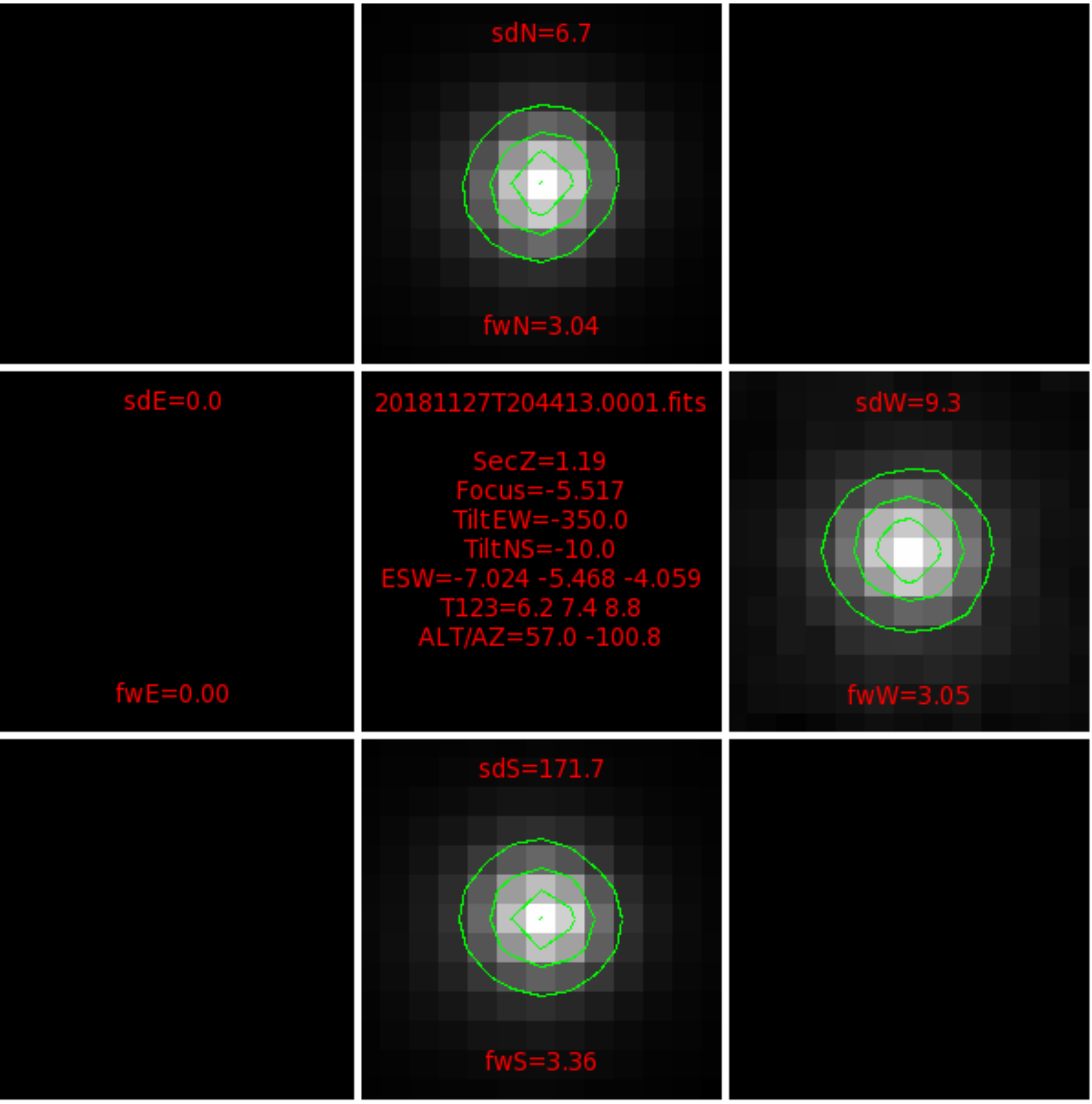
sdN=6.7
fwN=3.04
sdE=0.0
fwE=0.00
20181127T204413.0001.fits
SecZ=1.19
Focus=-5.517
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.024 -5.468 -4.059
T123=6.2 7.4 8.8
ALT/AZ=57.0 -100.8
sdW=9.3
fwW=3.05
sdS=171.7
fwS=3.36
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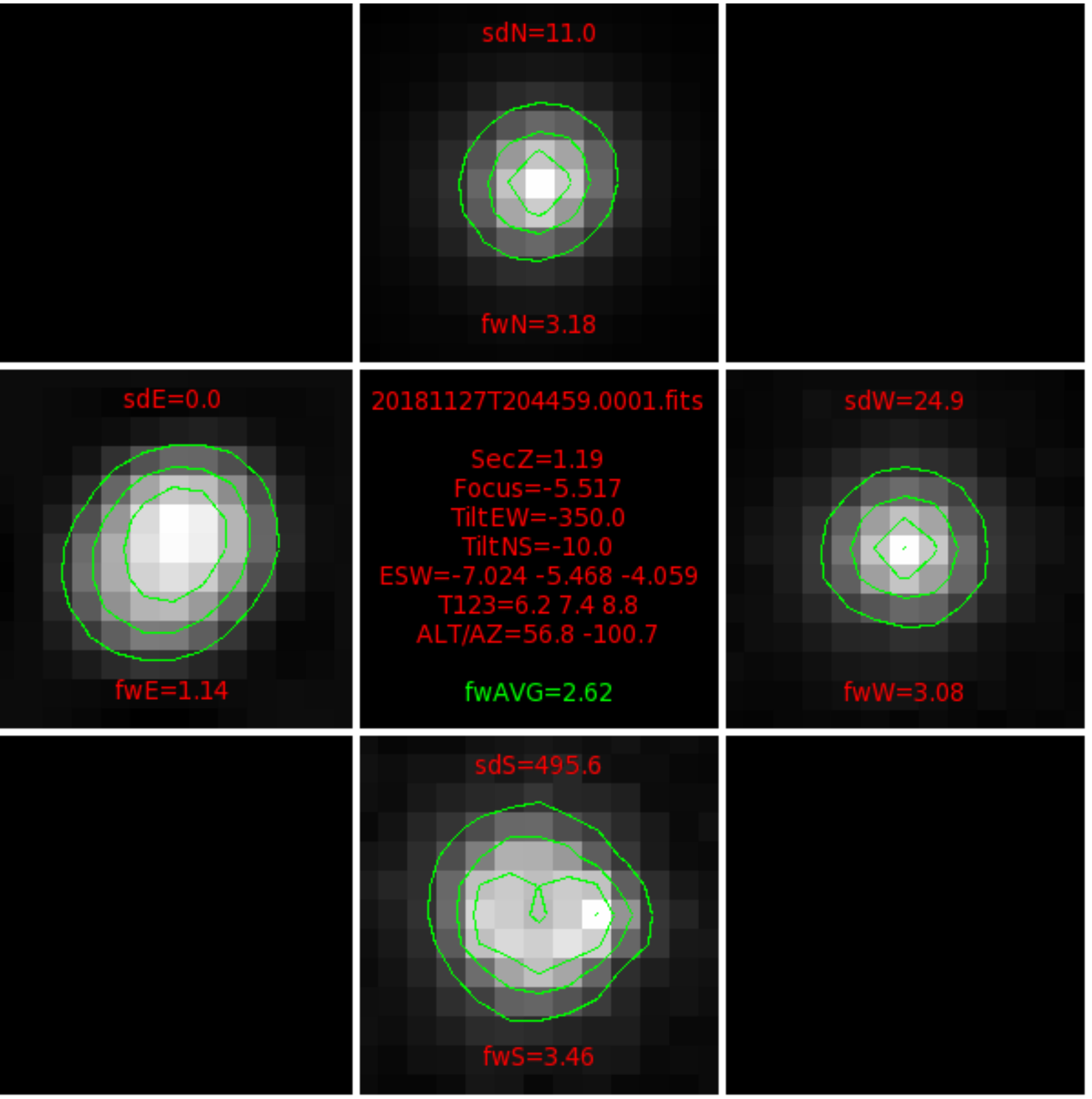
sdN=11.0
fwN=3.18
sdE=0.0
fwE=1.14
20181127T204459.0001.fits
SecZ=1.19
Focus=-5.517
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.024 -5.468 -4.059
T123=6.2 7.4 8.8
ALT/AZ=56.8 -100.7
fwAVG=2.62
sdW=24.9
fwW=3.08
sdS=495.6
fwS=3.46
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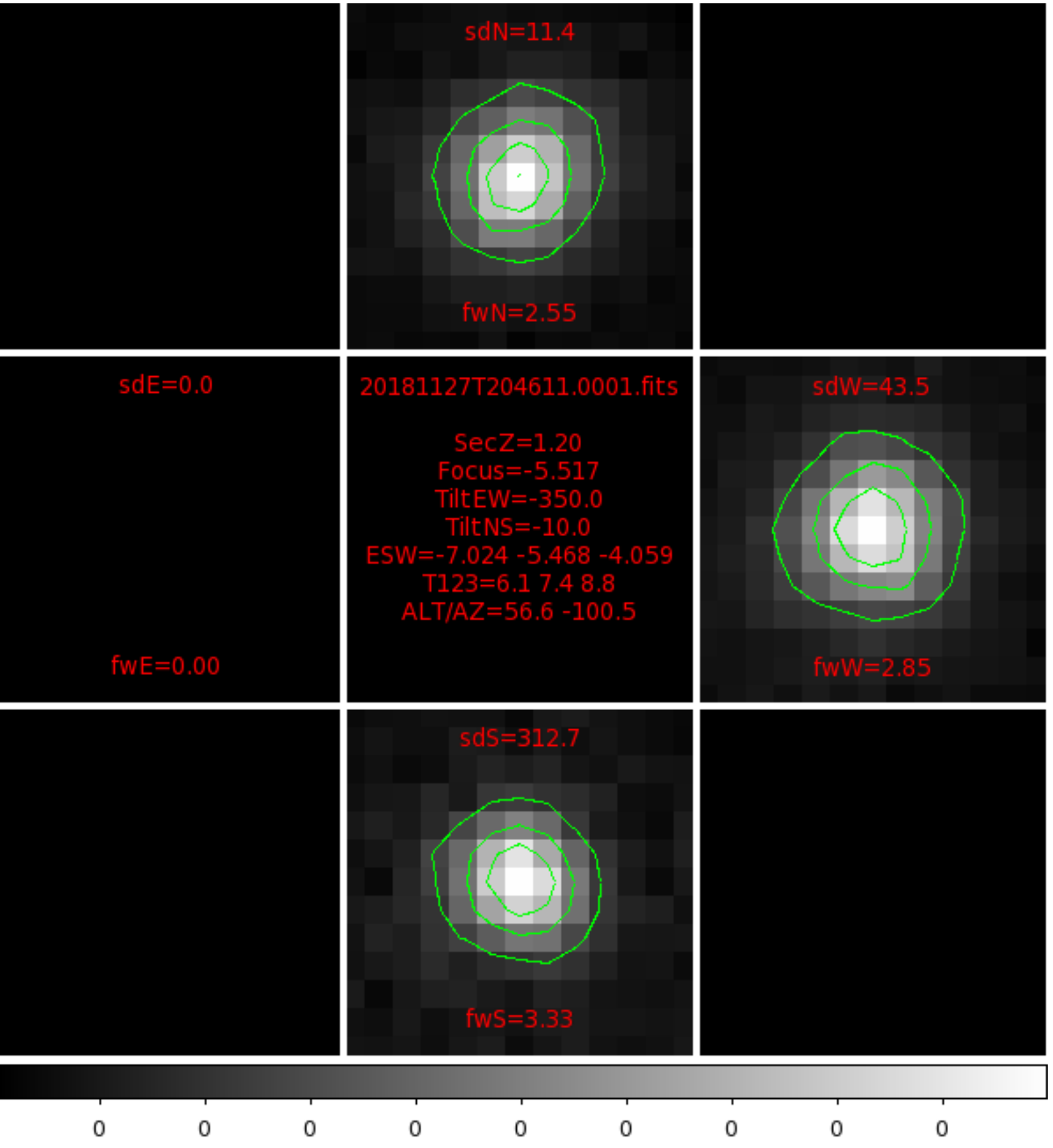
sdN=11.4
fwN=2.55
sdE=0.0
fwE=0.00
20181127T204611.0001.fits
SecZ=1.20
Focus=-5.517
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.024 -5.468 -4.059
T123=6.1 7.4 8.8
ALT/AZ=56.6 -100.5
sdW=43.5
fwW=2.85
sdS=312.7
fwS=3.33
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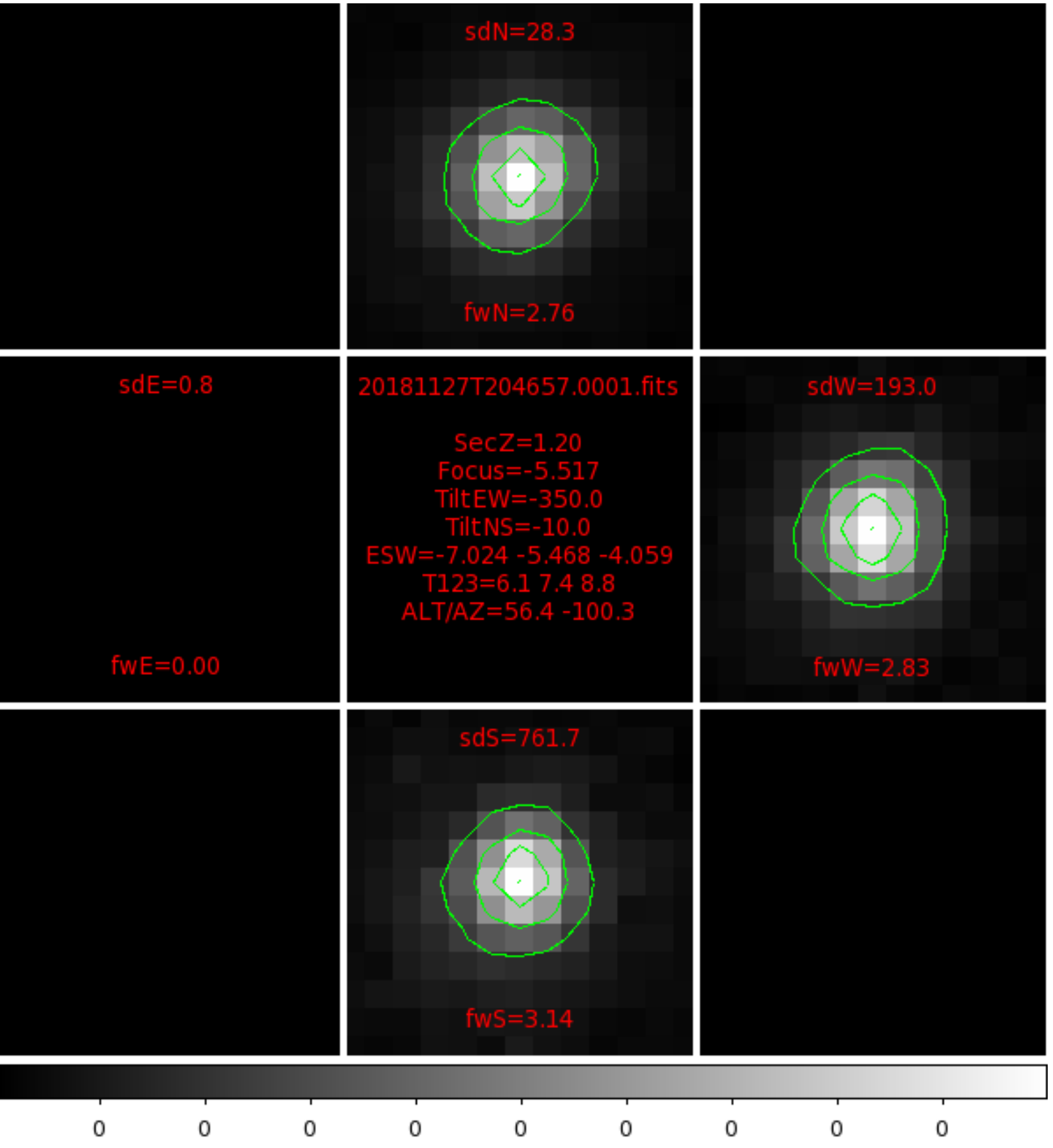
sdN=28.3
fwN=2.76
sdE=0.8
fwE=0.00
20181127T204657.0001.fits
SecZ=1.20
Focus=-5.517
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.024 -5.468 -4.059
T123=6.1 7.4 8.8
ALT/AZ=56.4 -100.3
sdW=193.0
fwW=2.83
sdS=761.7
fwS=3.14
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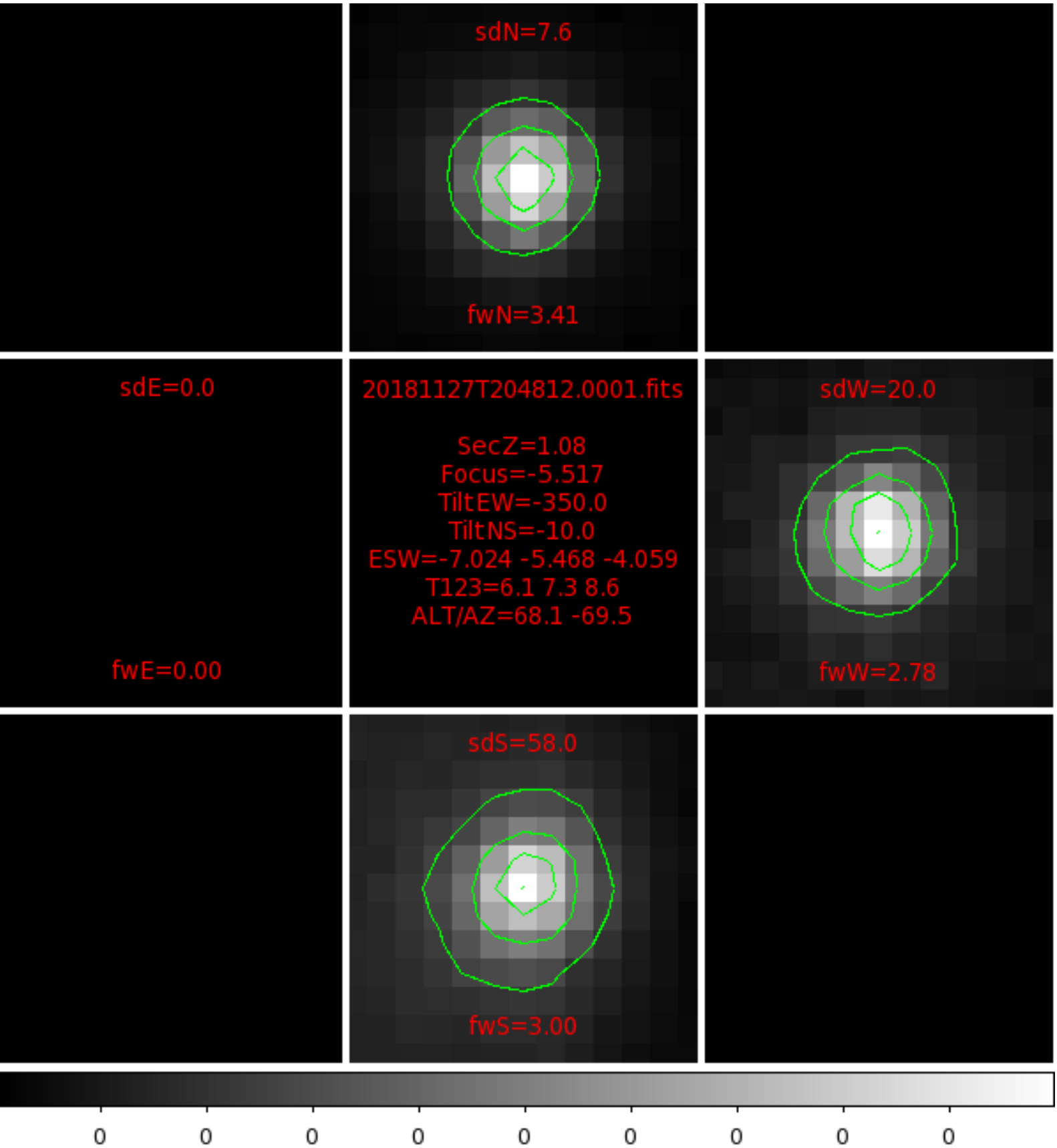
sdN=7.6
fwN=3.41
sdE=0.0
fwE=0.00
20181127T204812.0001.fits
SecZ=1.08
Focus=-5.517
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.024 -5.468 -4.059
T123=6.1 7.3 8.6
ALT/AZ=68.1 -69.5
sdW=20.0
fwW=2.78
sdS=58.0
fwS=3.00
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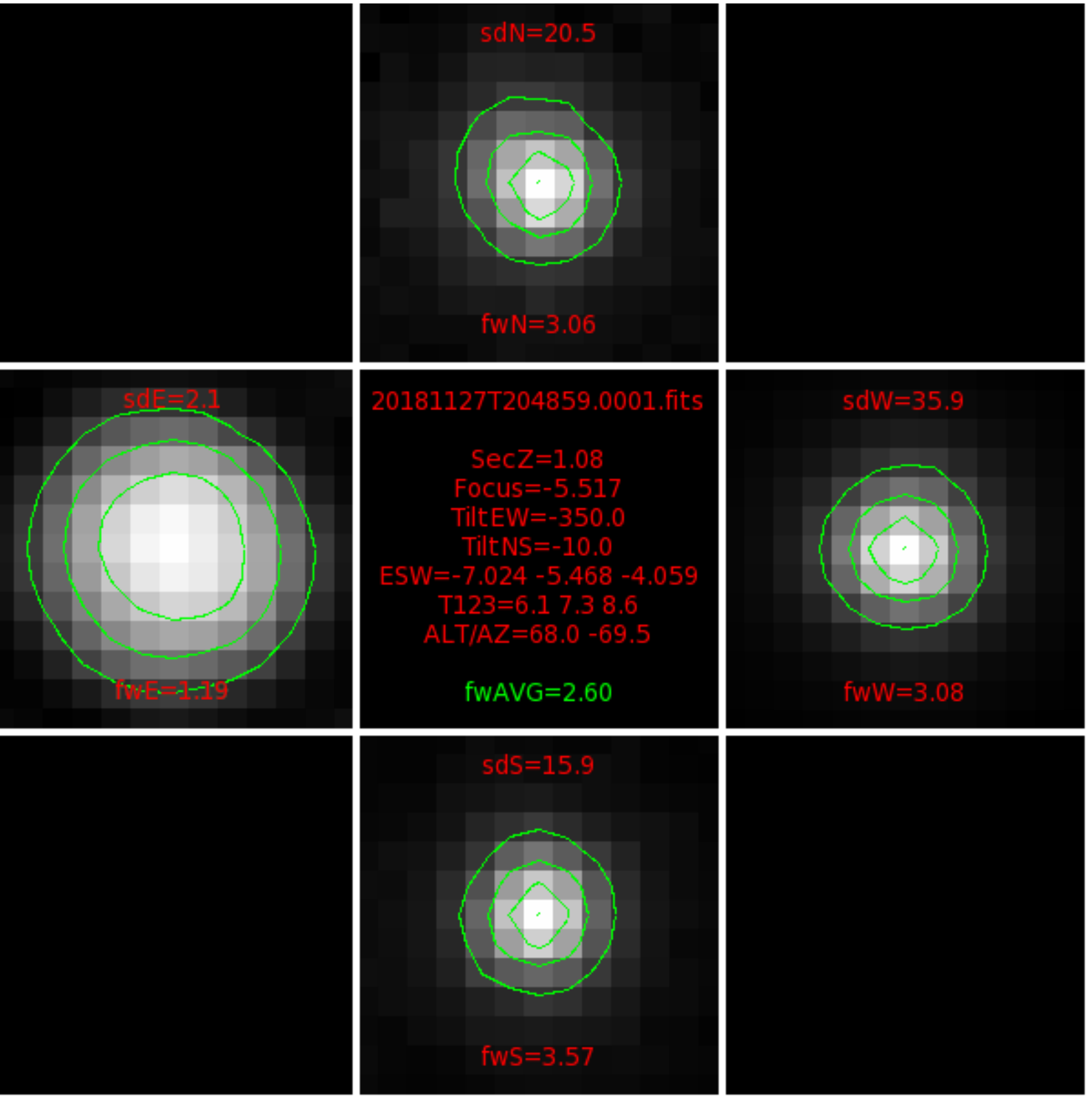
sdN=20.5
fwN=3.06
sdE=2.1
fwE=1.19
20181127T204859.0001.fits
SecZ=1.08
Focus=-5.517
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.024 -5.468 -4.059
T123=6.1 7.3 8.6
ALT/AZ=68.0 -69.5
fwAVG=2.60
sdW=35.9
fwW=3.08
sdS=15.9
fwS=3.57
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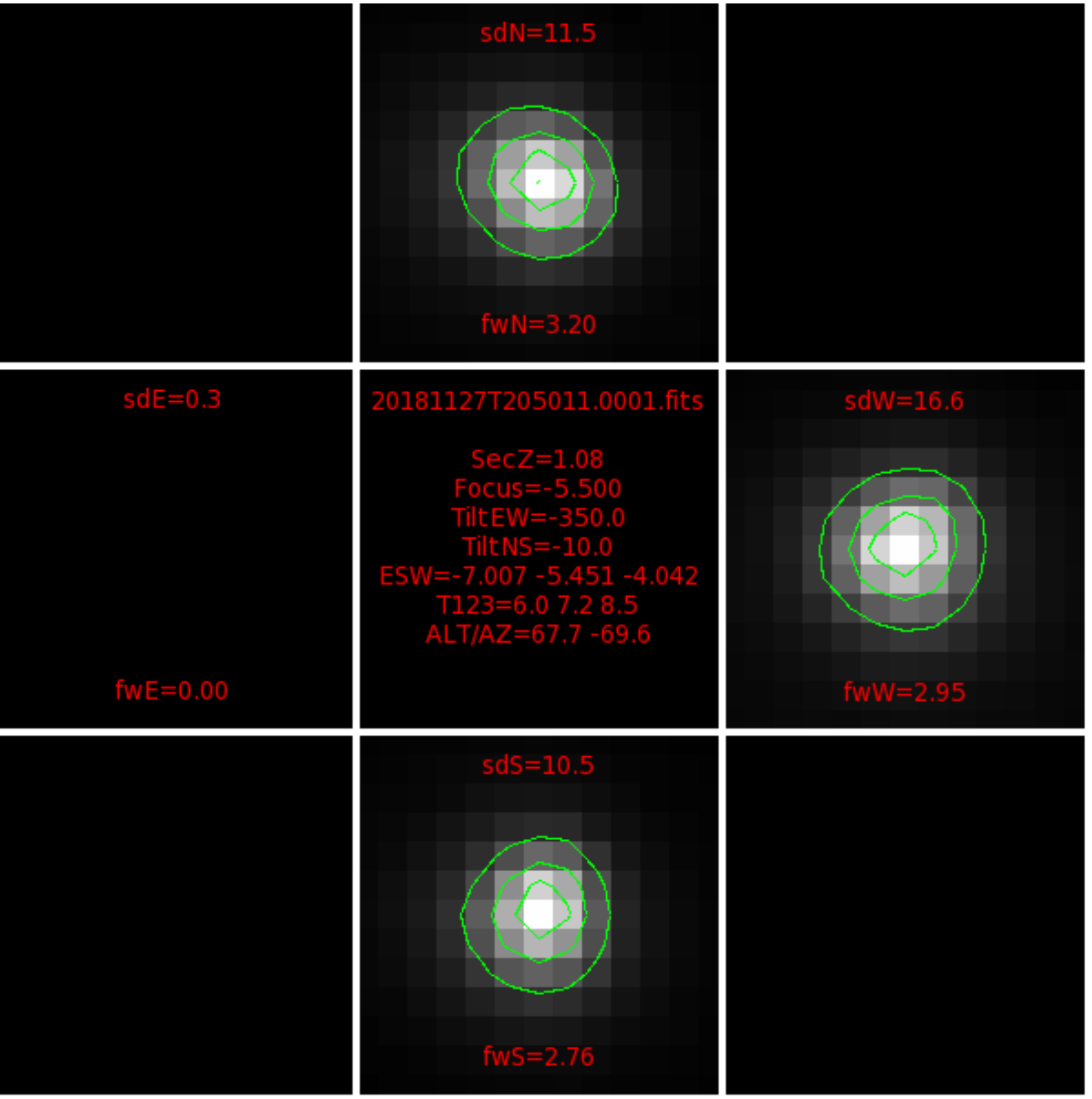
sdN=11.5
fwN=3.20
sdE=0.3
fwE=0.00
20181127T205011.0001.fits
SecZ=1.08
Focus=-5.500
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.007 -5.451 -4.042
T123=6.0 7.2 8.5
ALT/AZ=67.7 -69.6
sdW=16.6
fwW=2.95
sdS=10.5
fwS=2.76
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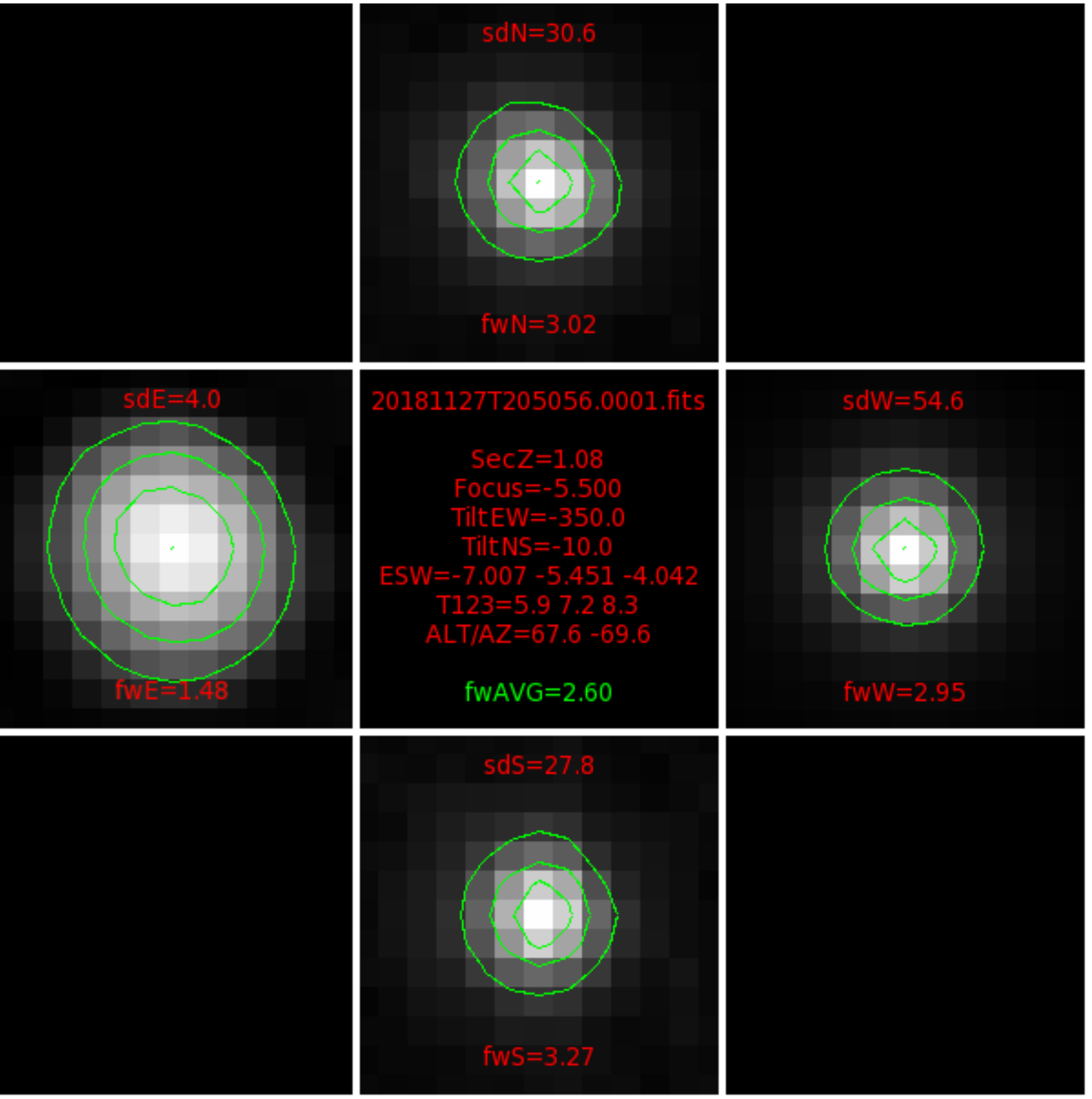
sdN=30.6
fwN=3.02
sdE=4.0
fwE=1.48
20181127T205056.0001.fits
SecZ=1.08
Focus=-5.500
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.007 -5.451 -4.042
T123=5.9 7.2 8.3
ALT/AZ=67.6 -69.6
fwAVG=2.60
sdW=54.6
fwW=2.95
sdS=27.8
fwS=3.27
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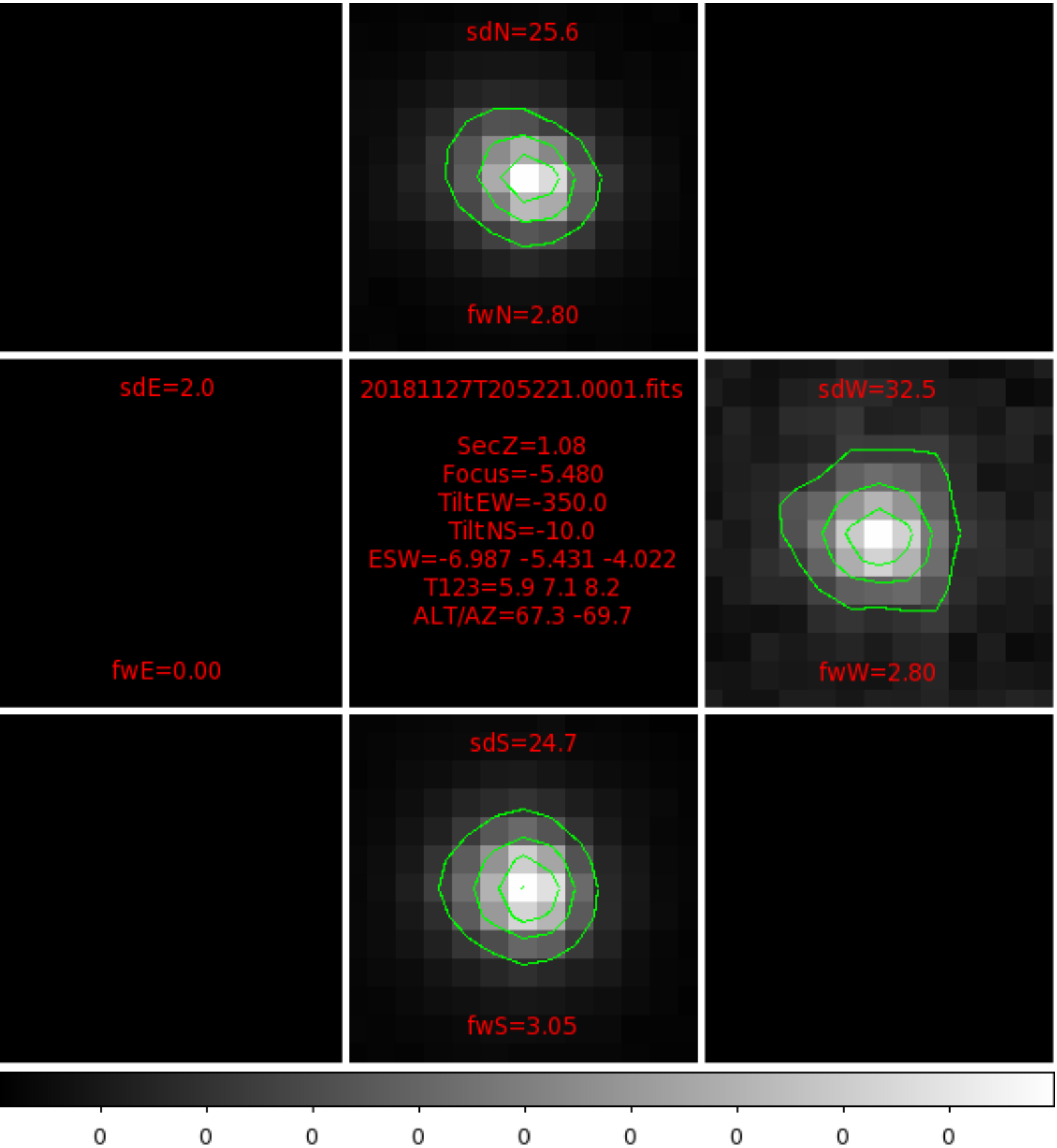
sdN=25.6
fwN=2.80
sdE=2.0
fwE=0.00
20181127T205221.0001.fits
SecZ=1.08
Focus=-5.480
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.987 -5.431 -4.022
T123=5.9 7.1 8.2
ALT/AZ=67.3 -69.7
sdW=32.5
fwW=2.80
sdS=24.7
fwS=3.05
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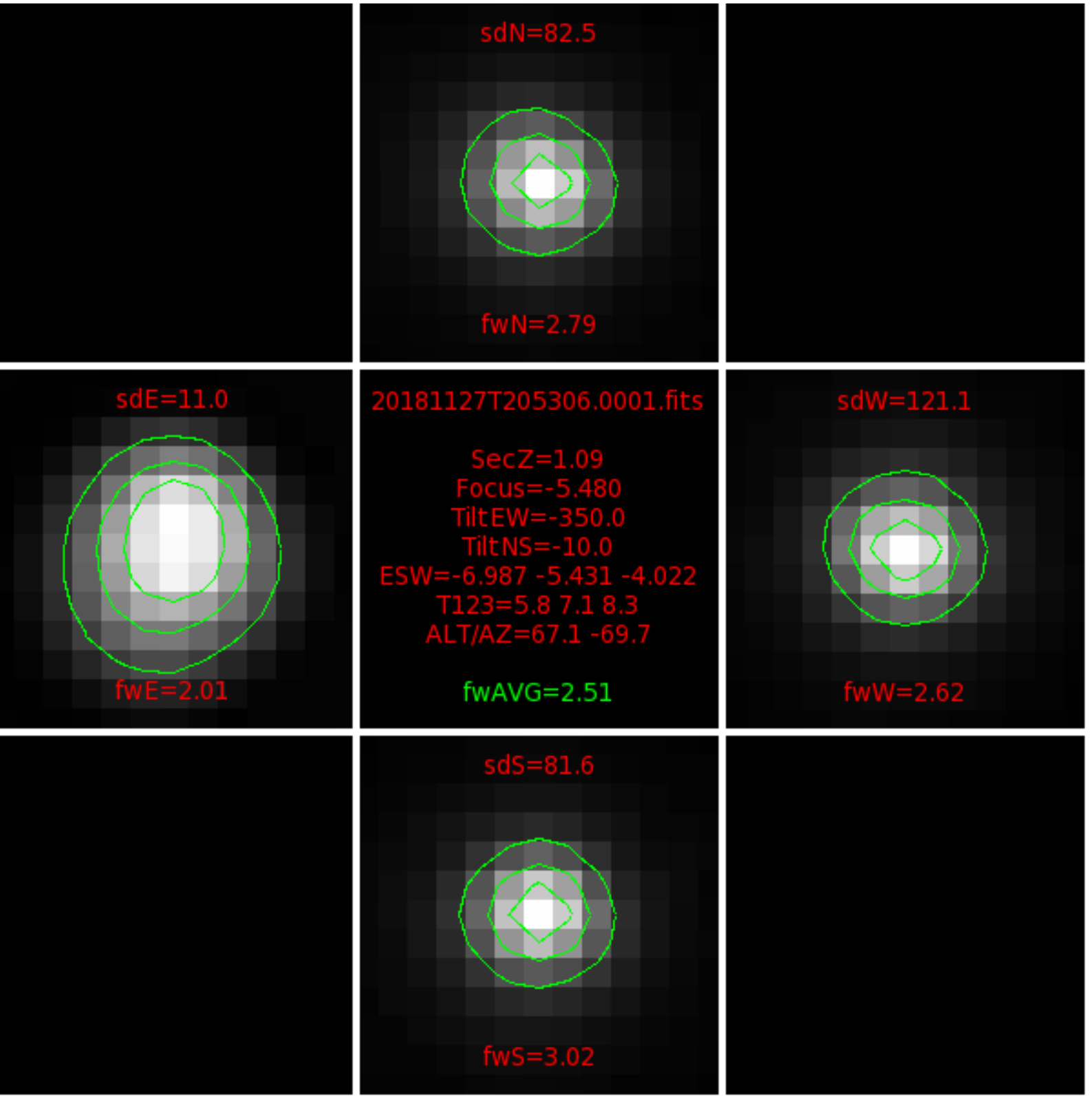
sdN=82.5
fwN=2.79
sdE=11.0
fwE=2.01
20181127T205306.0001.fits
SecZ=1.09
Focus=-5.480
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.987 -5.431 -4.022
T123=5.8 7.1 8.3
ALT/AZ=67.1 -69.7
fwAVG=2.51
sdW=121.1
fwW=2.62
sdS=81.6
fwS=3.02
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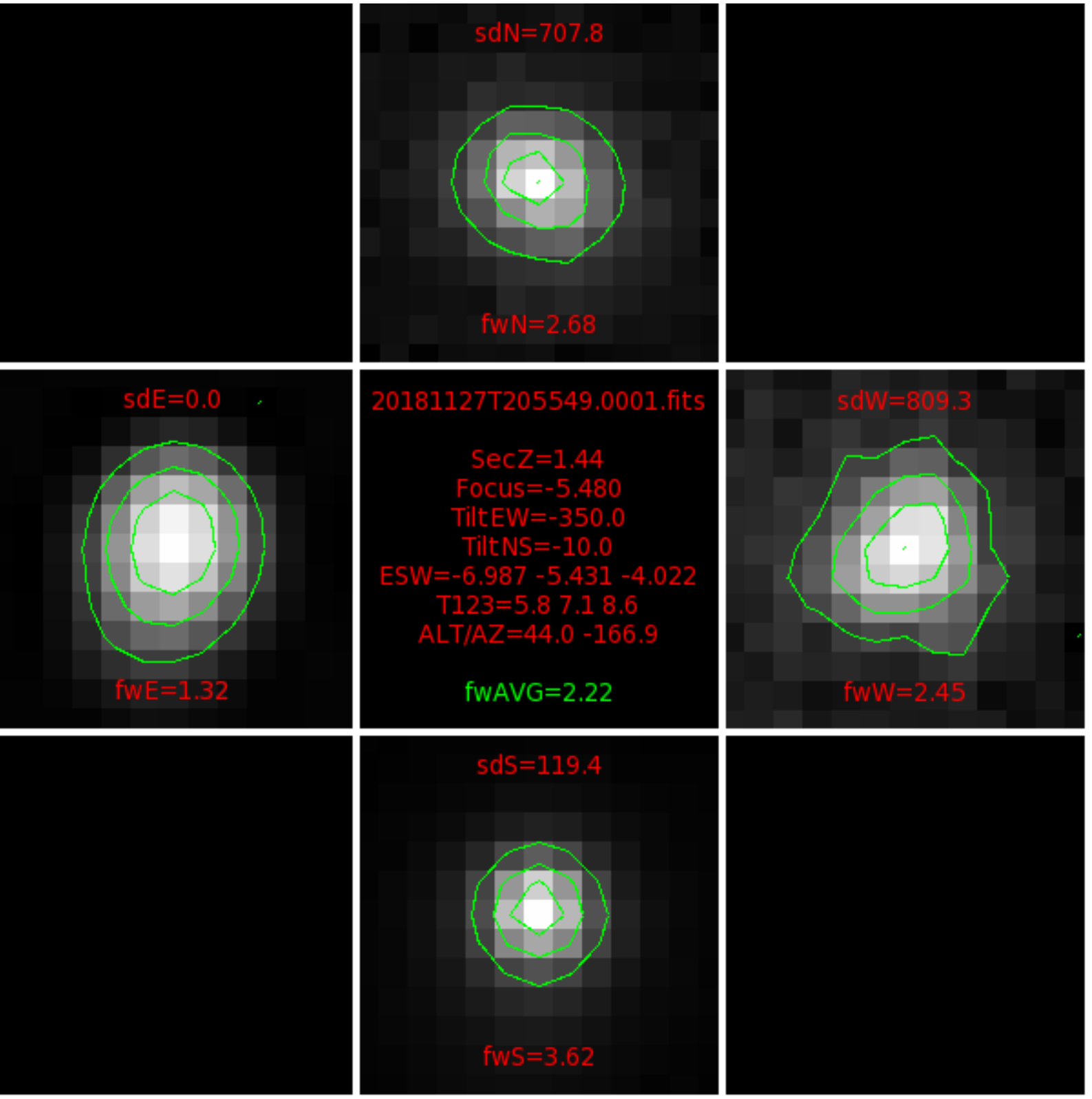
sdN=707.8
fwN=2.68
sdE=0.0
fwE=1.32
20181127T205549.0001.fits
SecZ=1.44
Focus=-5.480
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.987 -5.431 -4.022
T123=5.8 7.1 8.6
ALT/AZ=44.0 -166.9
fwAVG=2.22
sdW=809.3
fwW=2.45
sdS=119.4
fwS=3.62
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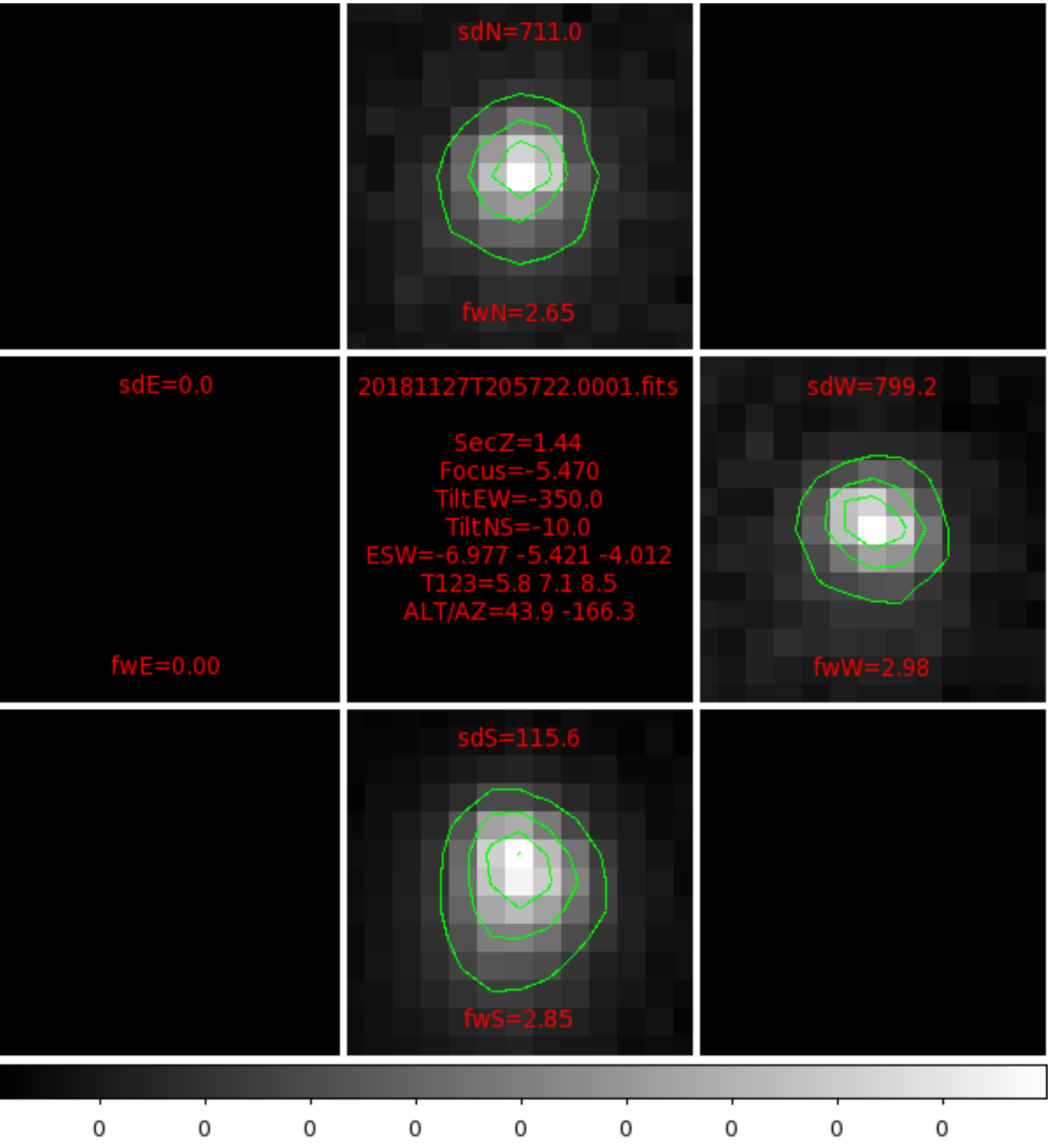
sdN=711.0
fwN=2.65
sdE=0.0
fwE=0.00
20181127T205722.0001.fits
SecZ=1.44
Focus=-5.470
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.977 -5.421 -4.012
T123=5.8 7.1 8.5
ALT/AZ=43.9 -166.3
sdW=799.2
fwW=2.98
sdS=115.6
fwS=2.85
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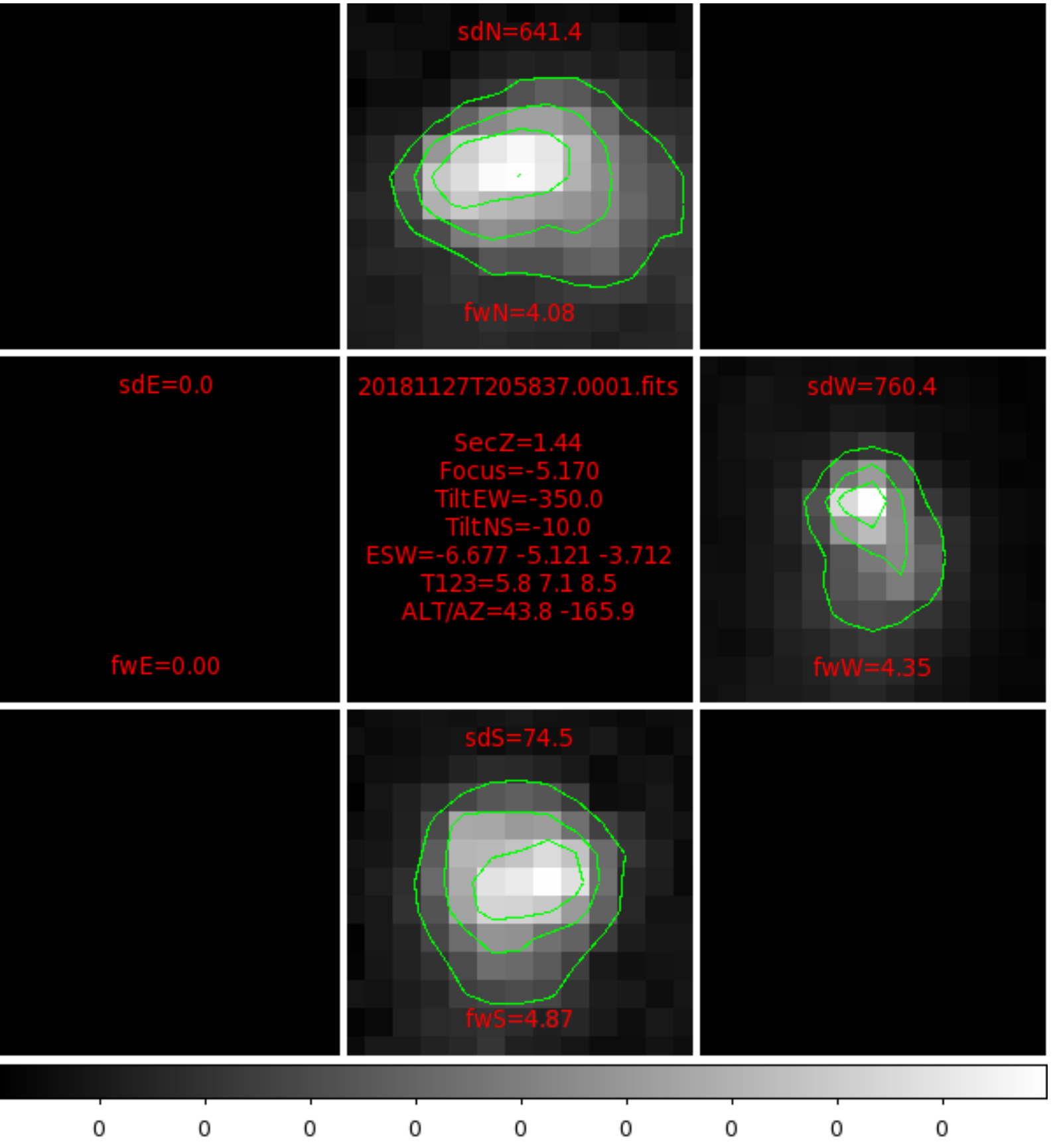
sdN=641.4
fwN=4.08
sdE=0.0
fwE=0.00
20181127T205837.0001.fits
SecZ=1.44
Focus=-5.170
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.677 -5.121 -3.712
T123=5.8 7.1 8.5
ALT/AZ=43.8 -165.9
sdW=760.4
fwW=4.35
sdS=74.5
fwS=4.87
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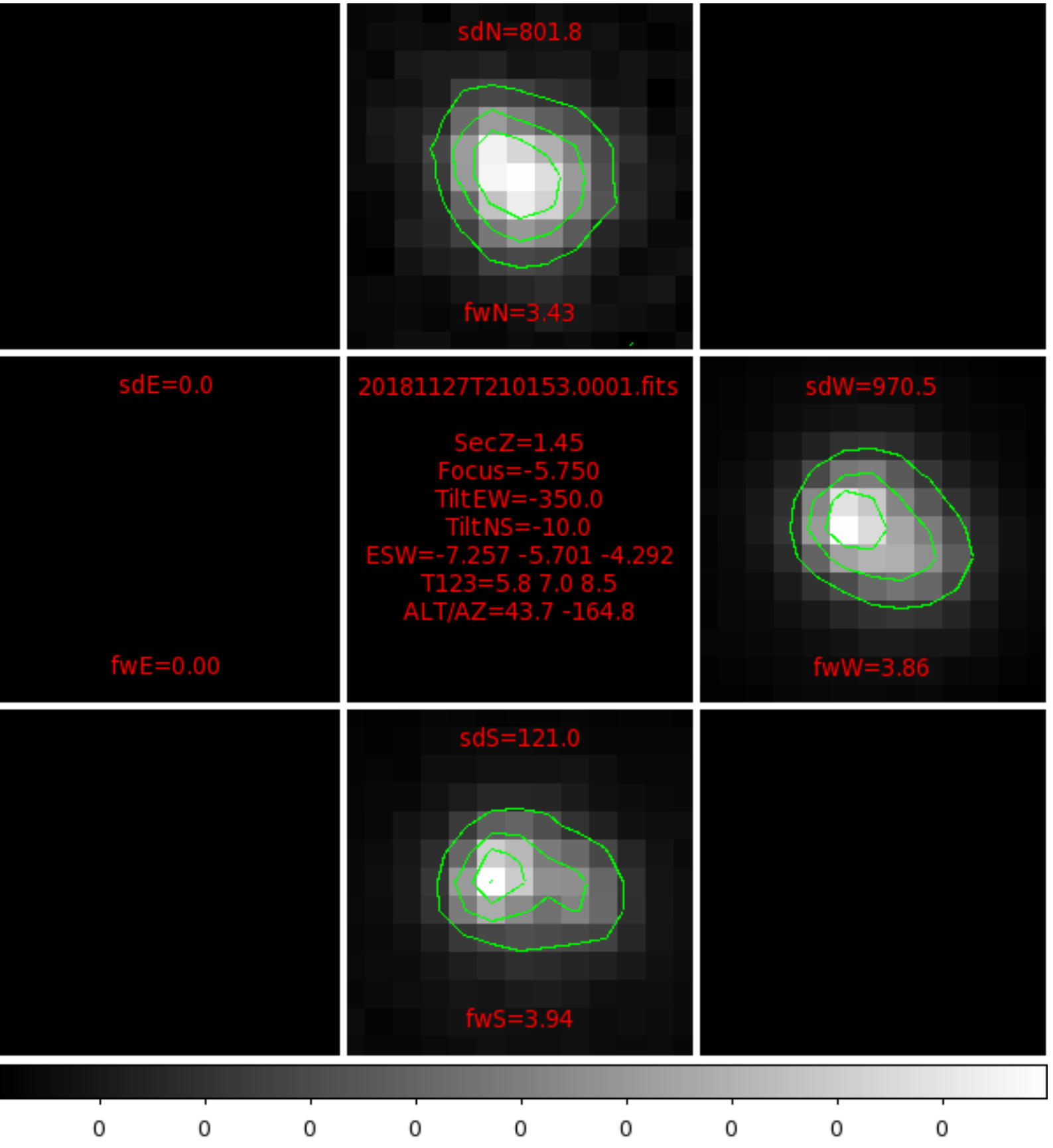
sdN=801.8
fwN=3.43
sdE=0.0
fwE=0.00
20181127T210153.0001.fits
SecZ=1.45
Focus=-5.750
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.257 -5.701 -4.292
T123=5.8 7.0 8.5
ALT/AZ=43.7 -164.8
sdW=970.5
fwW=3.86
sdS=121.0
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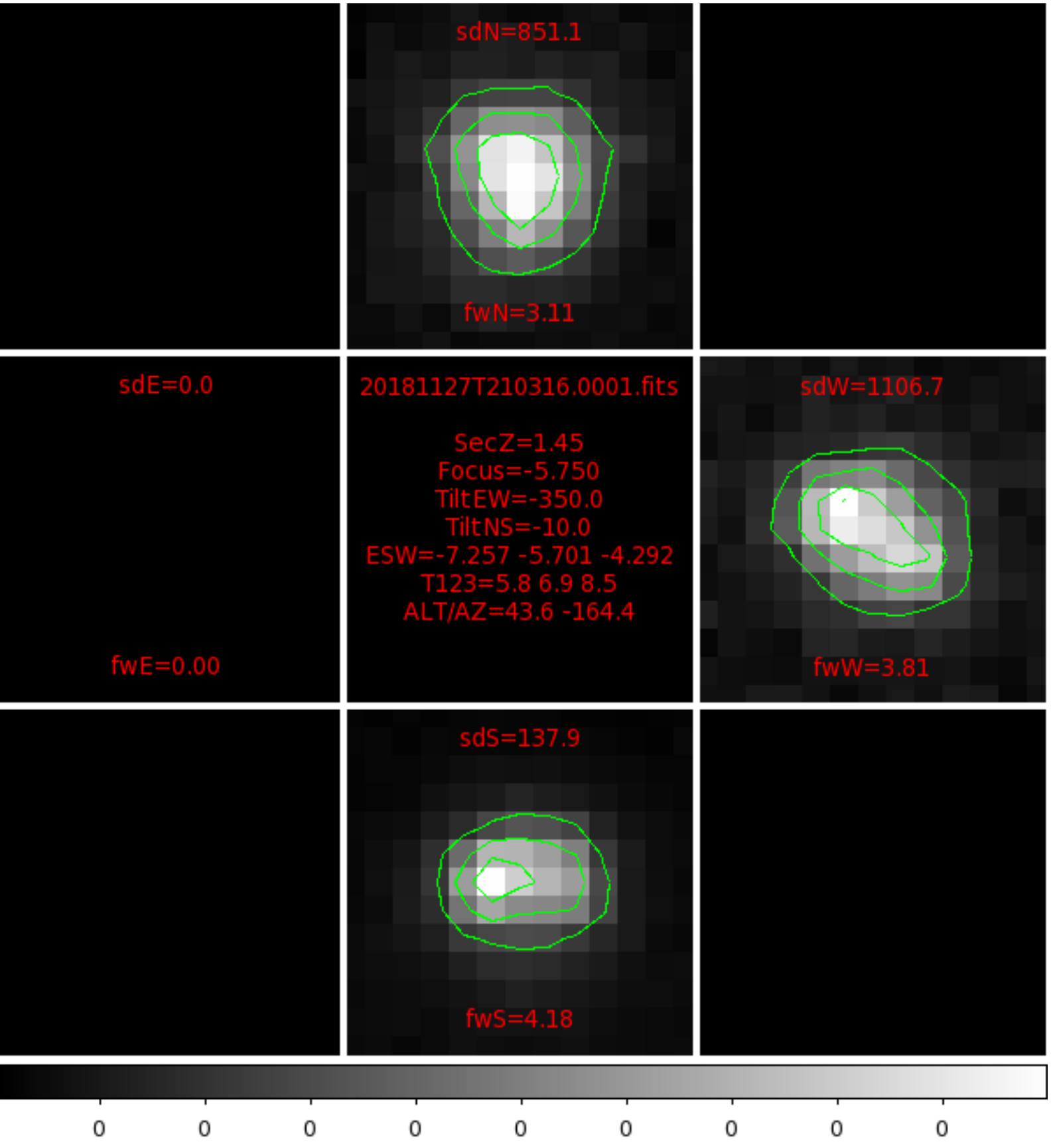
sdN=851.1
fwN=3.11
sdE=0.0
fwE=0.00
20181127T210316.0001.fits
SecZ=1.45
Focus=-5.750
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.257 -5.701 -4.292
T123=5.8 6.9 8.5
ALT/AZ=43.6 -164.4
sdW=1106.7
fwW=3.81
sdS=137.9
fwS=4.18
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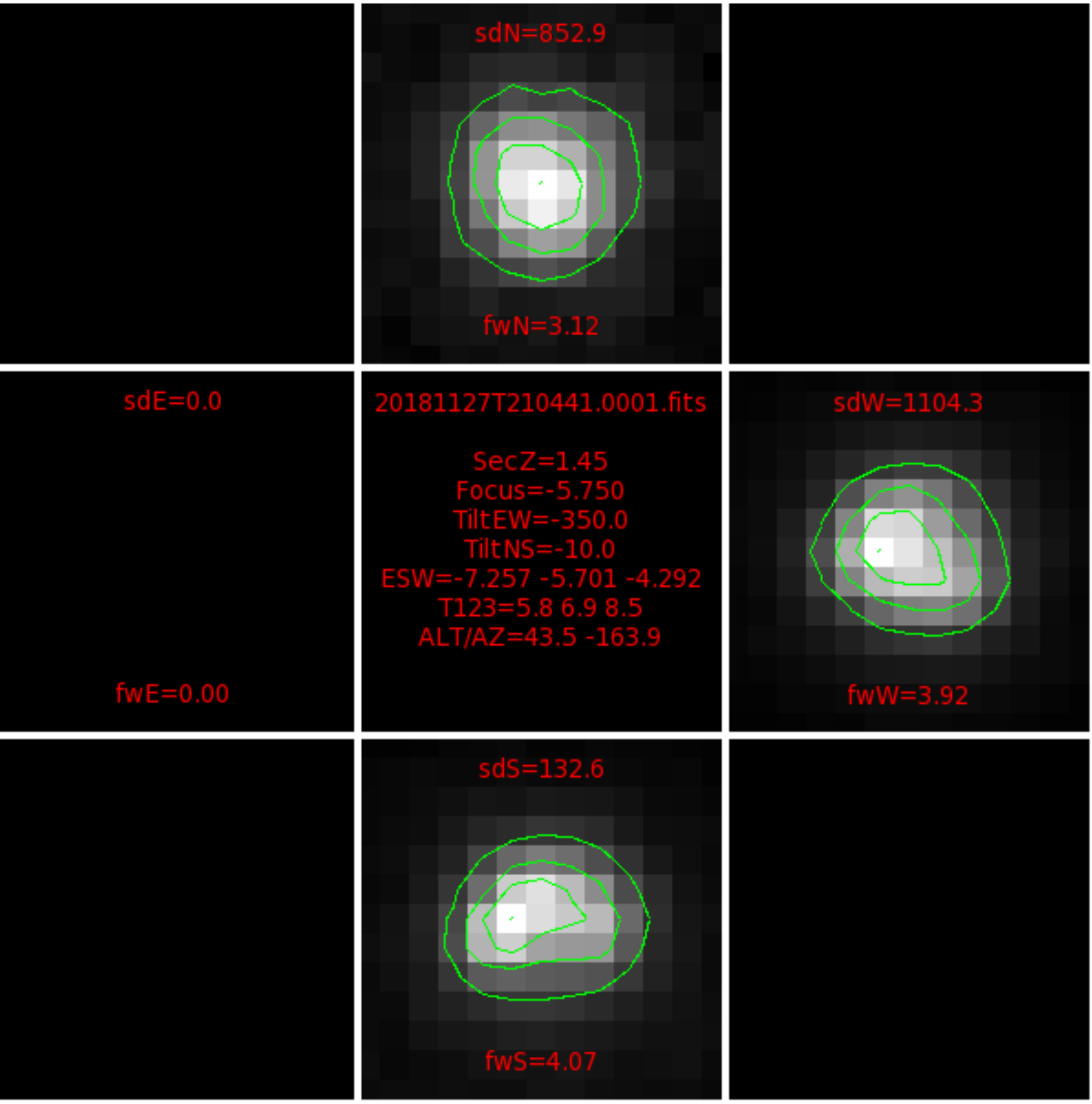
sdN=852.9
fwN=3.12
sdE=0.0
fwE=0.00
20181127T210441.0001.fits
SecZ=1.45
Focus=-5.750
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.257 -5.701 -4.292
T123=5.8 6.9 8.5
ALT/AZ=43.5 -163.9
sdW=1104.3
fwW=3.92
sdS=132.6
fwS=4.07
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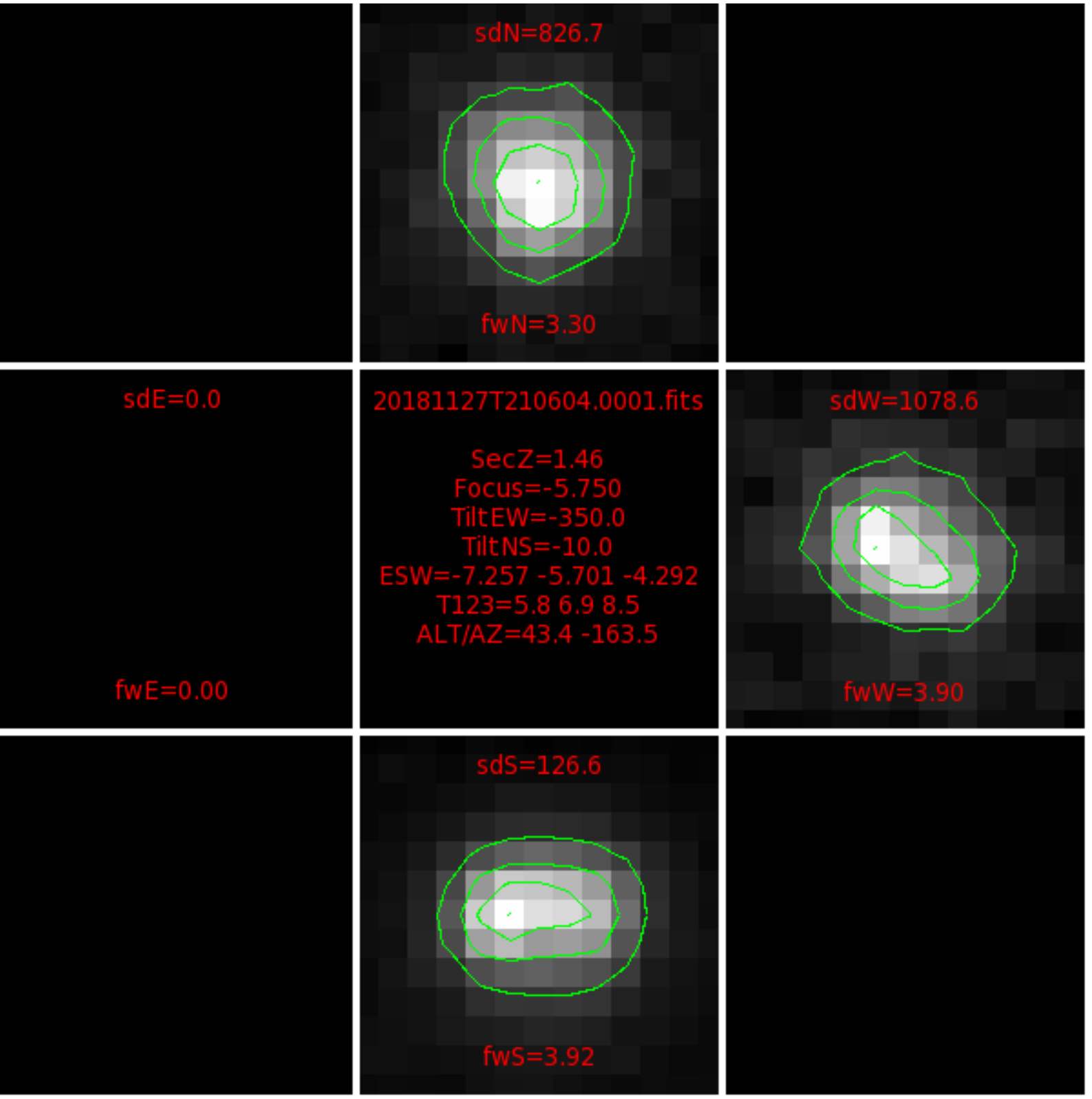
sdN=826.7
fwN=3.30
sdE=0.0
fwE=0.00
20181127T210604.0001.fits
SecZ=1.46
Focus=-5.750
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.257 -5.701 -4.292
T123=5.8 6.9 8.5
ALT/AZ=43.4 -163.5
sdW=1078.6
fwW=3.90
sdS=126.6
fwS=3.92
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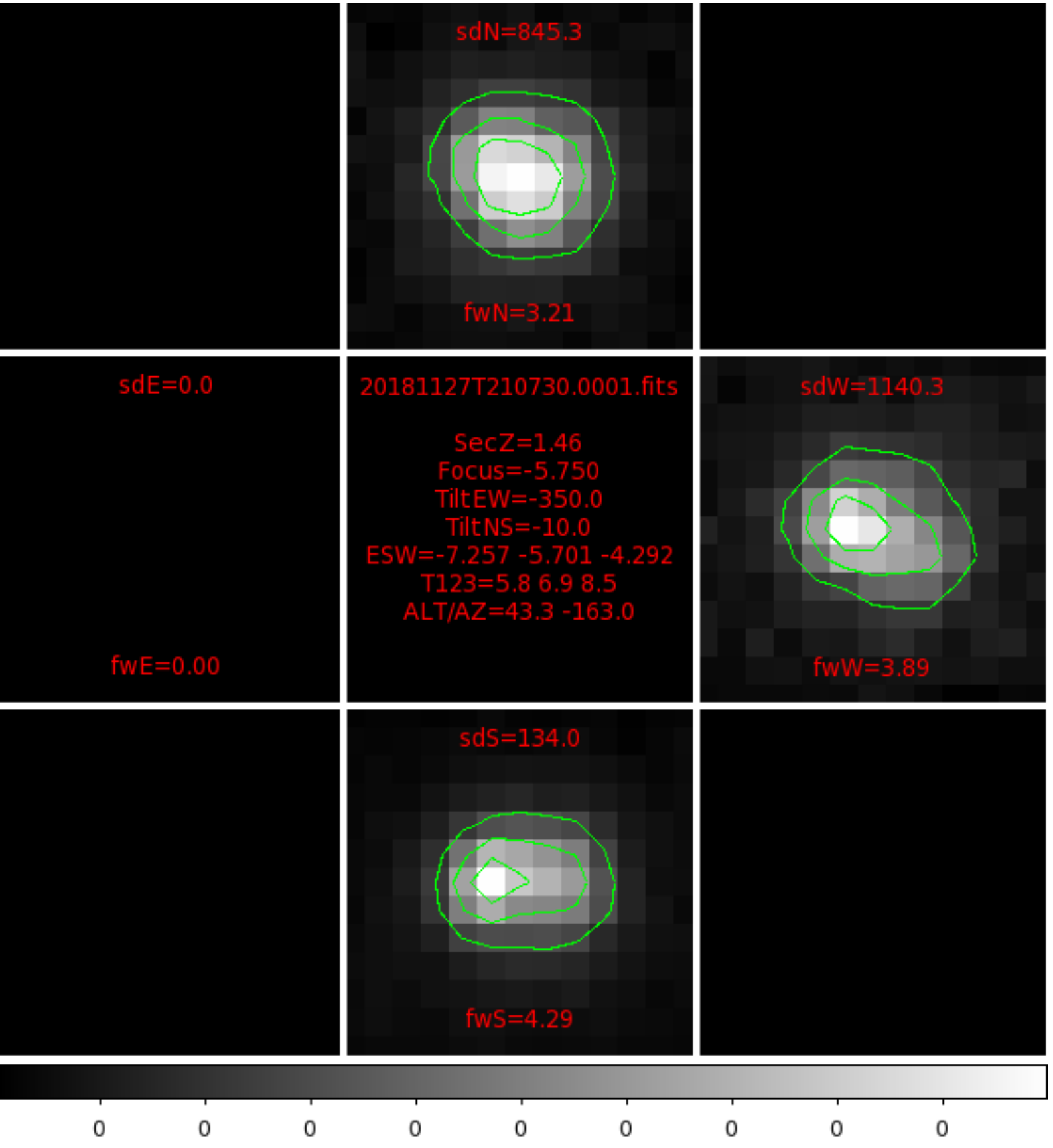
sdN=845.3
fwN=3.21
sdE=0.0
fwE=0.00
20181127T210730.0001.fits
SecZ=1.46
Focus=-5.750
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.257 -5.701 -4.292
T123=5.8 6.9 8.5
ALT/AZ=43.3 -163.0
sdW=1140.3
fwW=3.89
sdS=134.0
fwS=4.29
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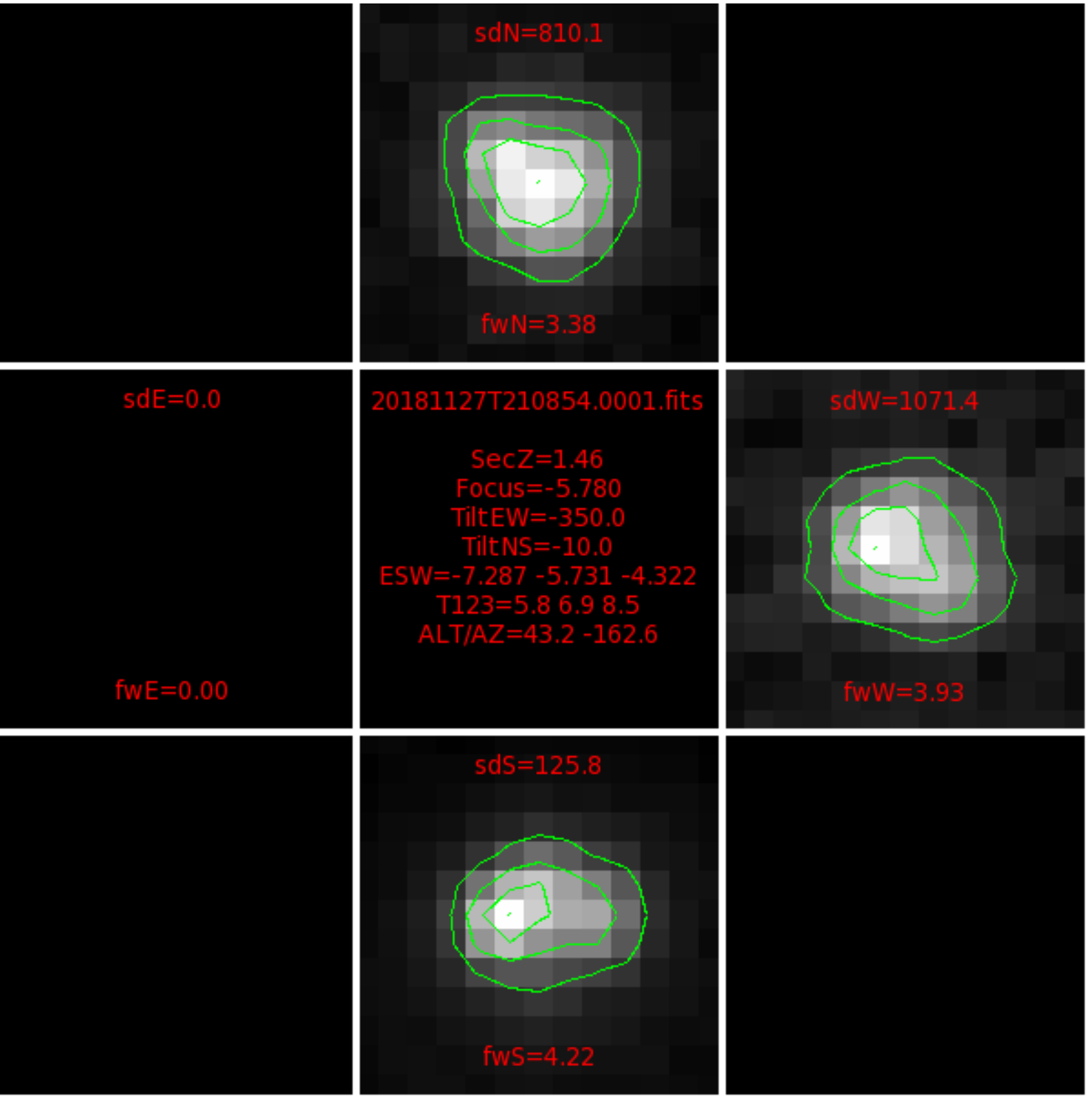
sdN=810.1
fwN=3.38
sdE=0.0
fwE=0.00
20181127T210854.0001.fits
SecZ=1.46
Focus=-5.780
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.287 -5.731 -4.322
T123=5.8 6.9 8.5
ALT/AZ=43.2 -162.6
sdW=1071.4
fwW=3.93
sdS=125.8
fwS=4.22
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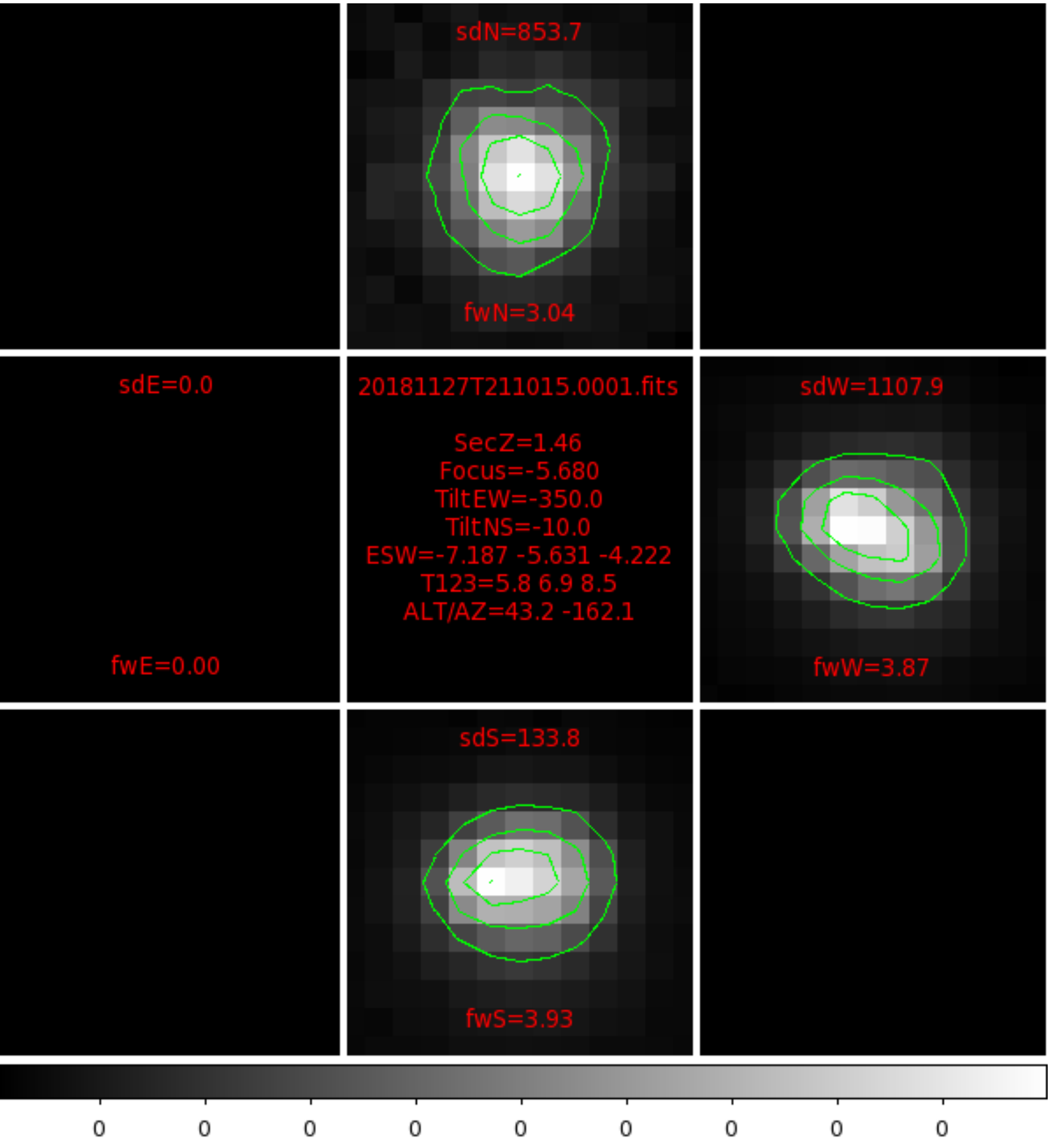
sdN=853.7
fwN=3.04
sdE=0.0
fwE=0.00
20181127T211015.0001.fits
SecZ=1.46
Focus=-5.680
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.187 -5.631 -4.222
T123=5.8 6.9 8.5
ALT/AZ=43.2 -162.1
sdW=1107.9
fwW=3.87
sdS=133.8
fwS=3.93
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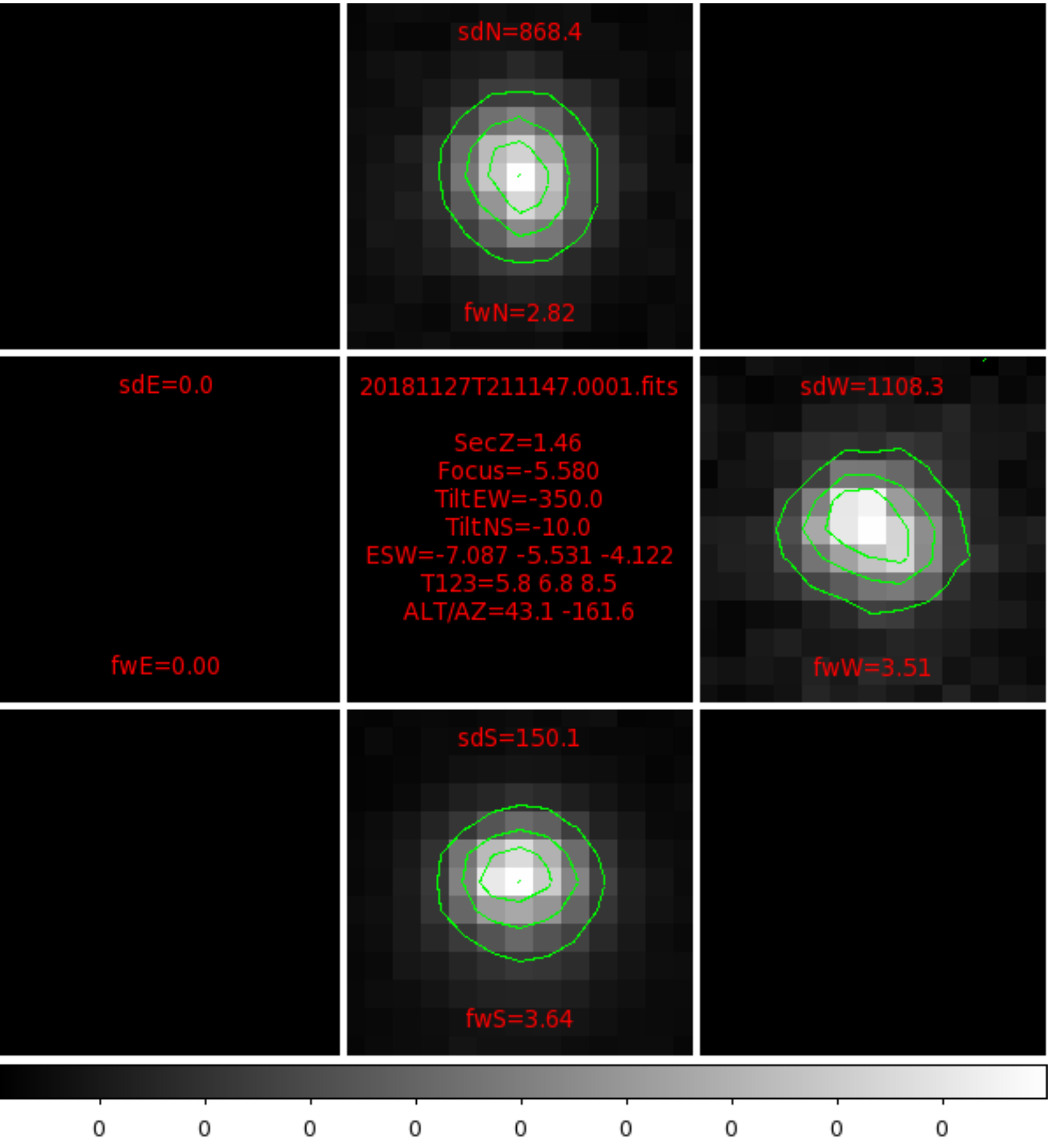
sdN=868.4
fwN=2.82
sdE=0.0
fwE=0.00
20181127T211147.0001.fits
SecZ=1.46
Focus=-5.580
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.087 -5.531 -4.122
T123=5.8 6.8 8.5
ALT/AZ=43.1 -161.6
sdW=1108.3
fwW=3.51
sdS=150.1
fwS=3.64
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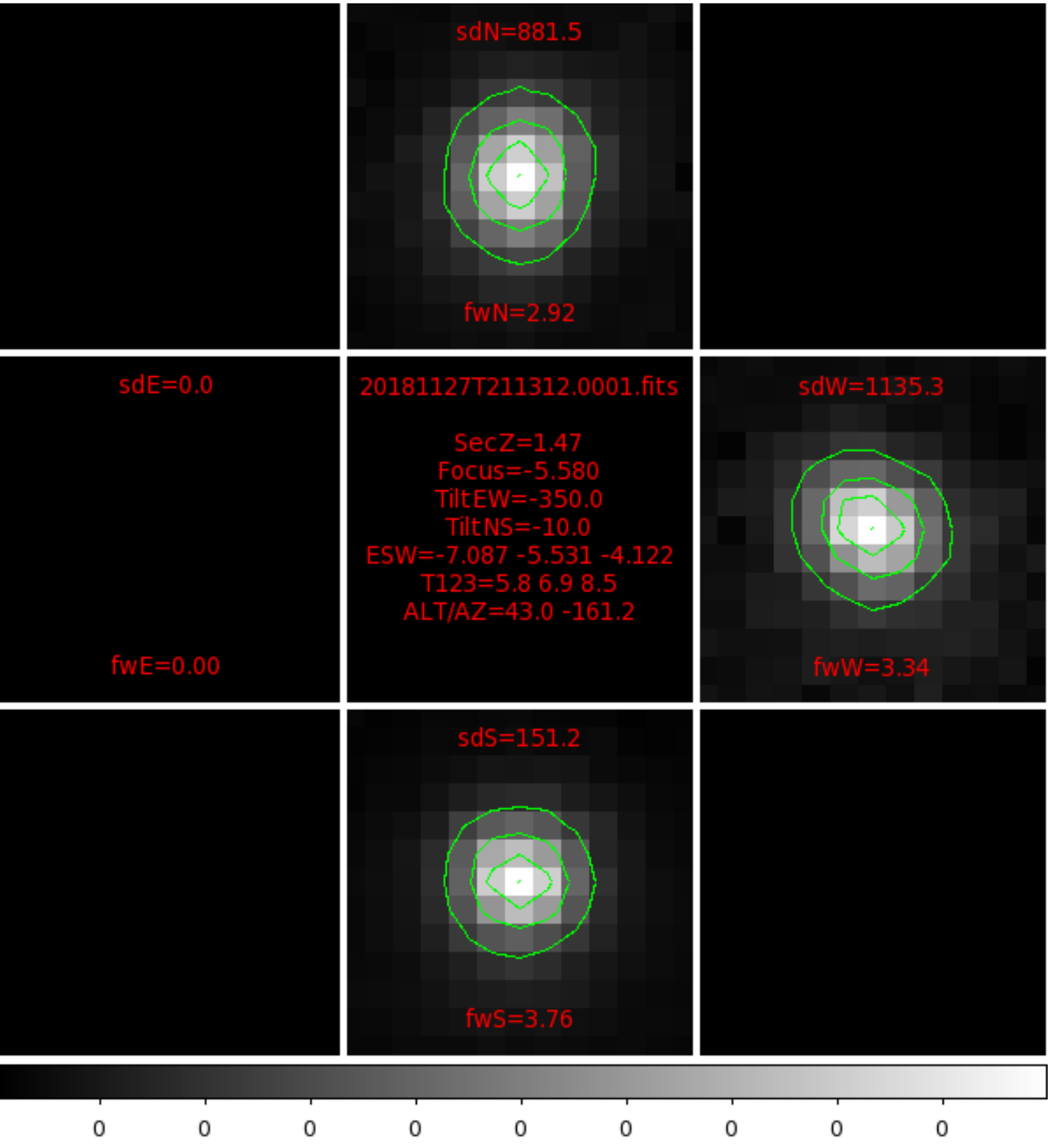
sdN=881.5
fwN=2.92
sdE=0.0
fwE=0.00
20181127T211312.0001.fits
SecZ=1.47
Focus=-5.580
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.087 -5.531 -4.122
T123=5.8 6.9 8.5
ALT/AZ=43.0 -161.2
sdW=1135.3
fwW=3.34
sdS=151.2
fwS=3.76
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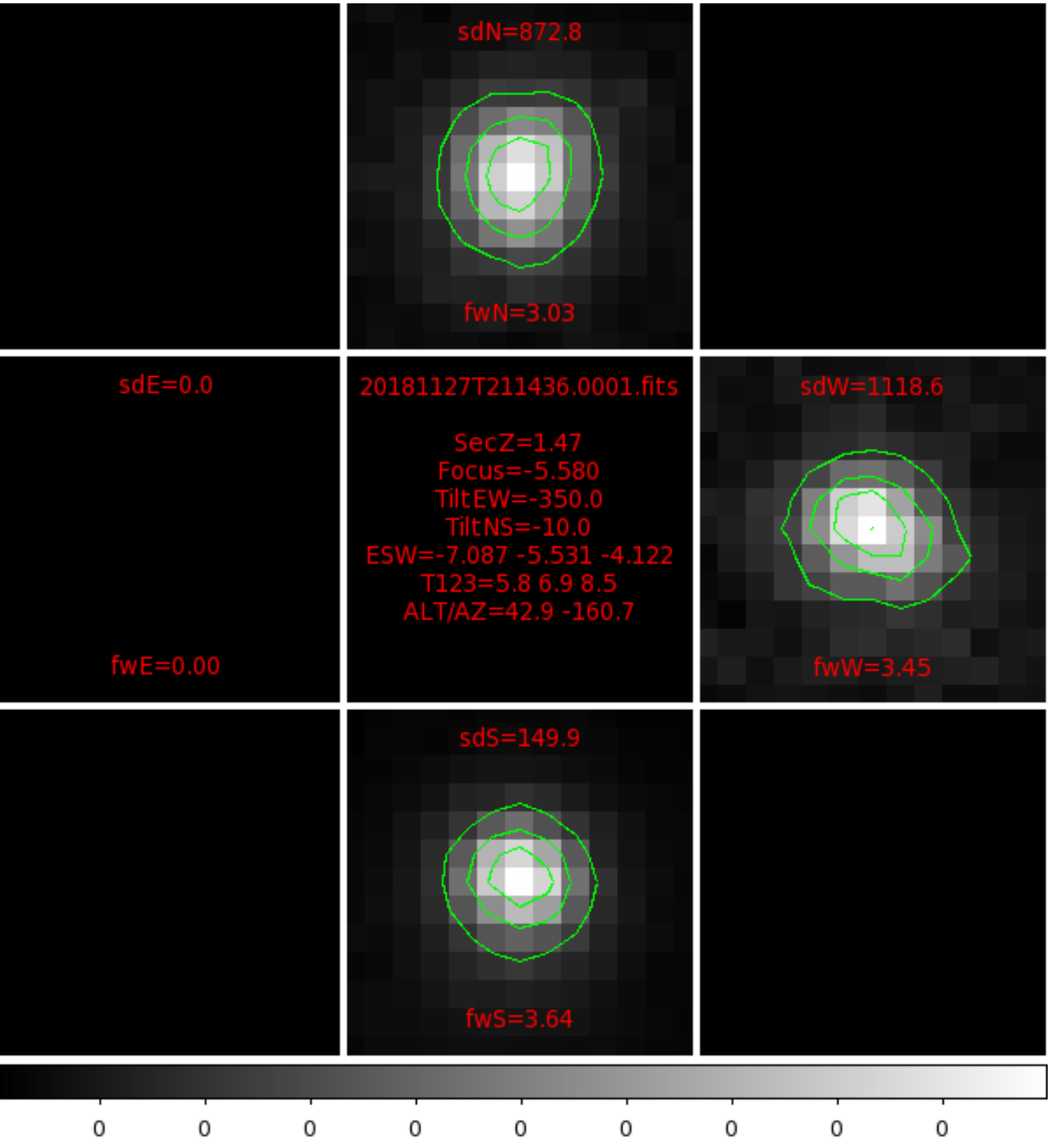
sdN=872.8
fwN=3.03
sdE=0.0
fwE=0.00
20181127T211436.0001.fits
SecZ=1.47
Focus=-5.580
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.087 -5.531 -4.122
T123=5.8 6.9 8.5
ALT/AZ=42.9 -160.7
sdW=1118.6
fwW=3.45
sdS=149.9
fwS=3.64
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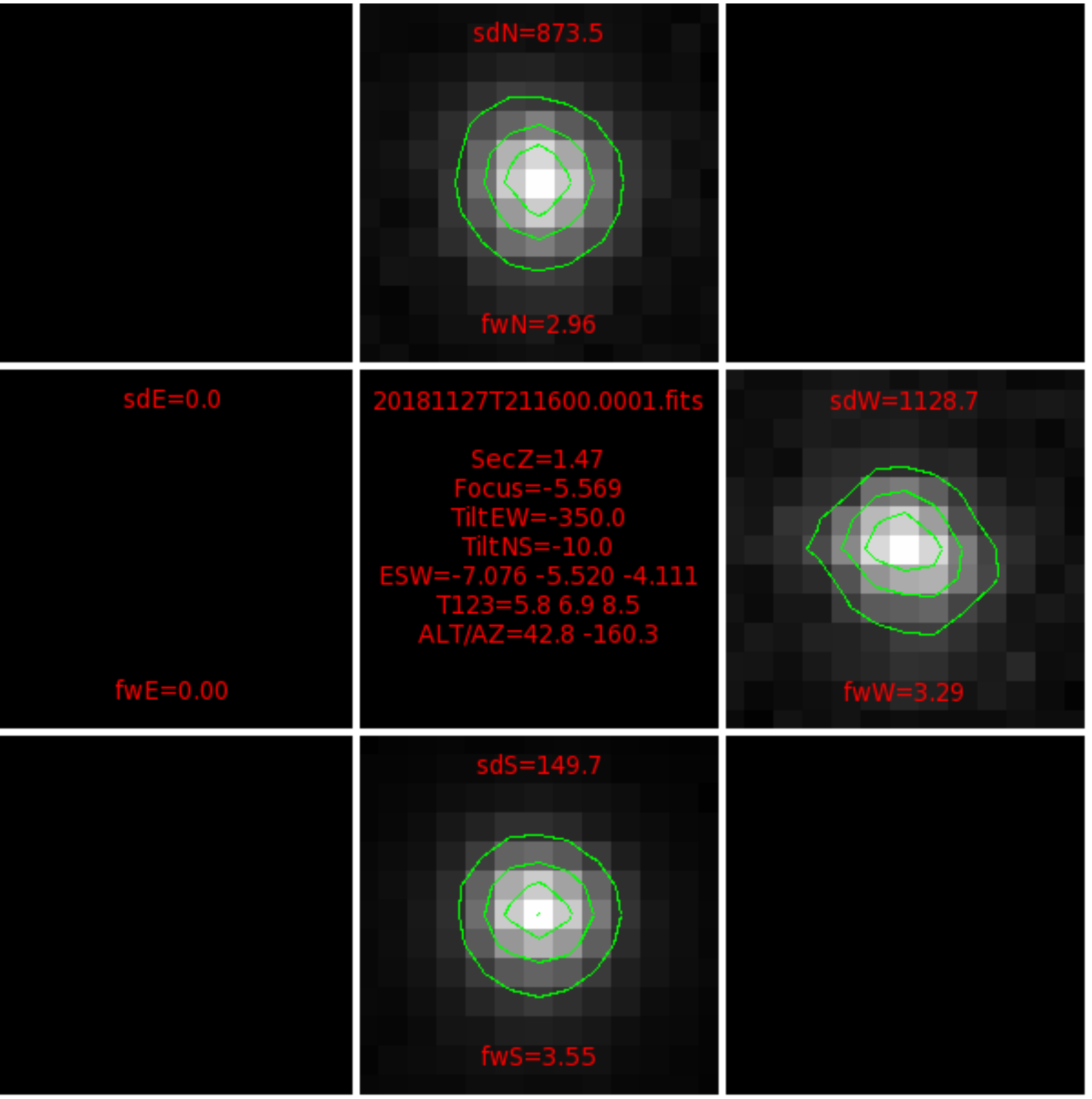
sdN=873.5
fwN=2.96
sdE=0.0
fwE=0.00
20181127T211600.0001.fits
SecZ=1.47
Focus=-5.569
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.076 -5.520 -4.111
T123=5.8 6.9 8.5
ALT/AZ=42.8 -160.3
sdW=1128.7
fwW=3.29
sdS=149.7
fwS=3.55
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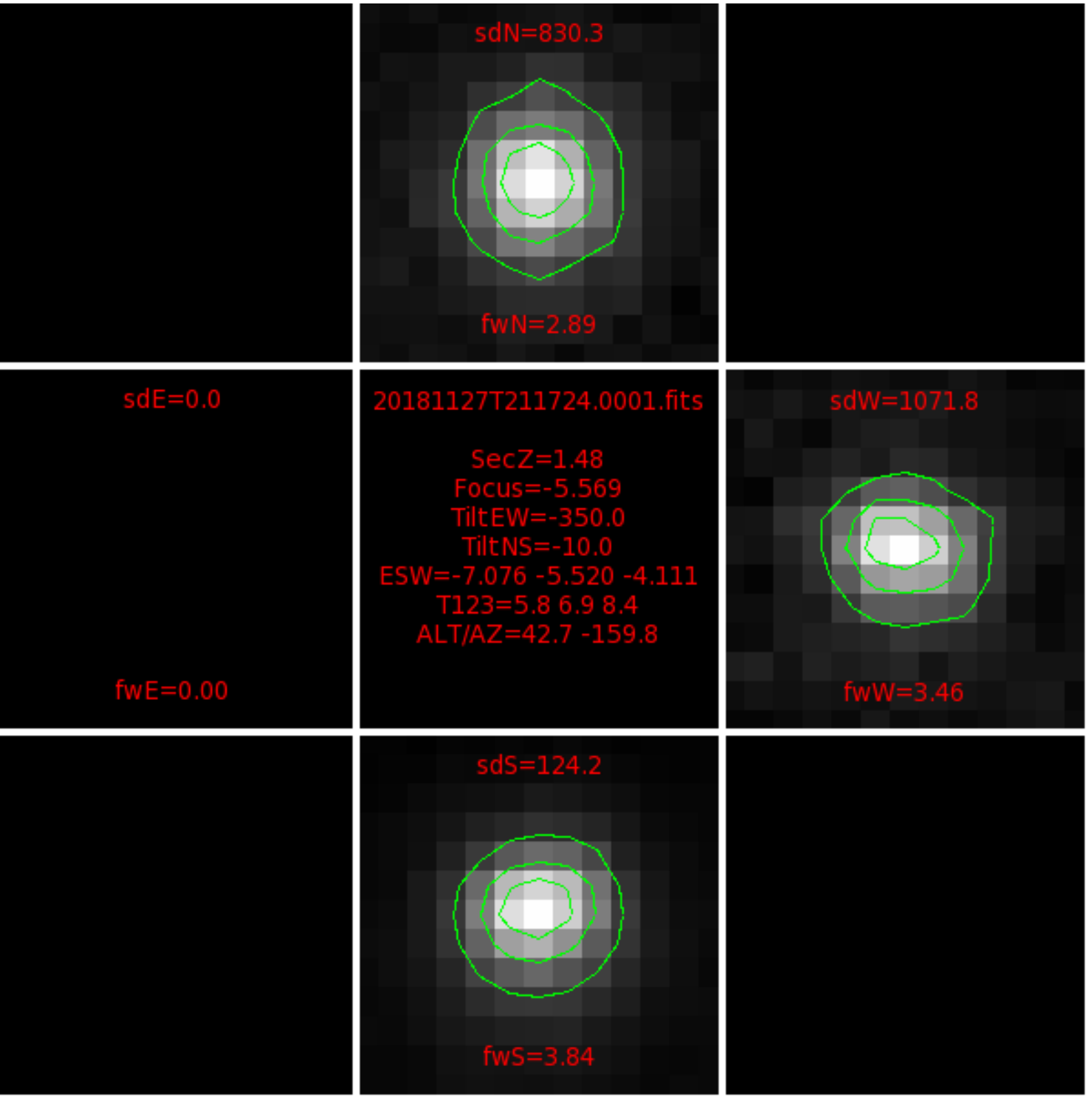
sdN=830.3
fwN=2.89
sdE=0.0
fwE=0.00
20181127T211724.0001.fits
SecZ=1.48
Focus=-5.569
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.076 -5.520 -4.111
T123=5.8 6.9 8.4
ALT/AZ=42.7 -159.8
sdW=1071.8
fwW=3.46
sdS=124.2
fwS=3.84
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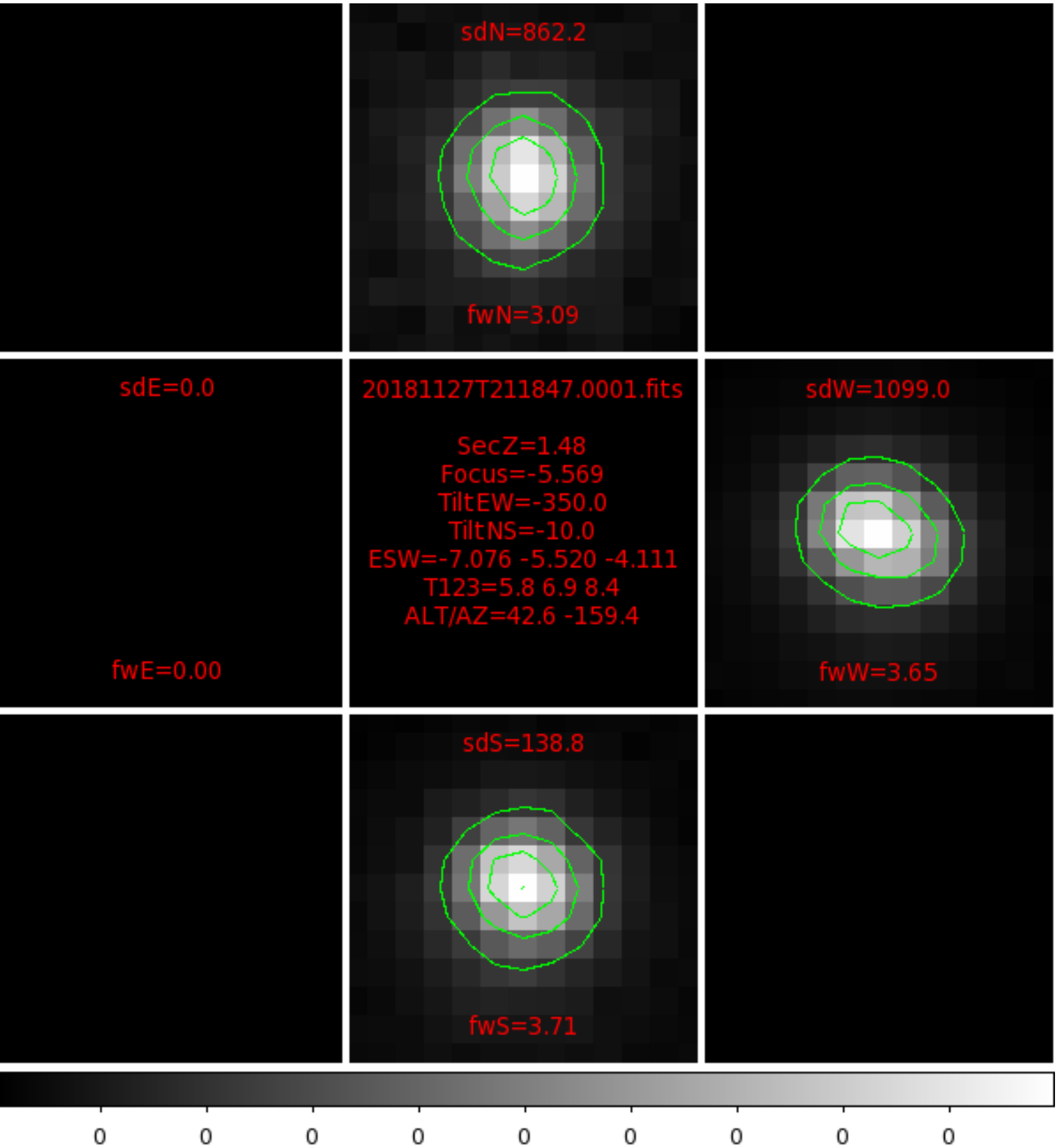
sdN=862.2
fwN=3.09
sdE=0.0
fwE=0.00
20181127T211847.0001.fits
SecZ=1.48
Focus=-5.569
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.076 -5.520 -4.111
T123=5.8 6.9 8.4
ALT/AZ=42.6 -159.4
sdW=1099.0
fwW=3.65
sdS=138.8
fwS=3.71
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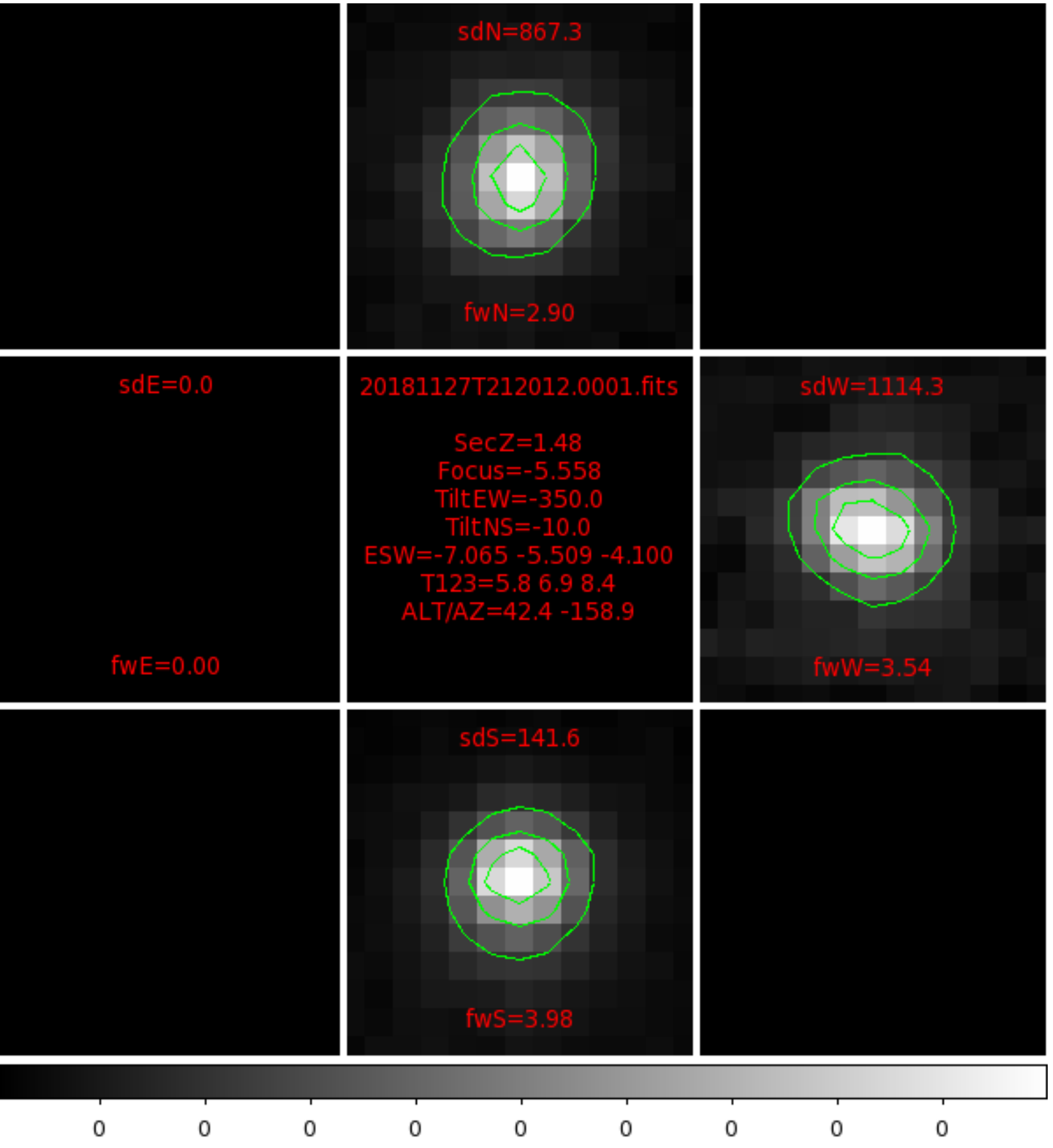
sdN=867.3
fwN=2.90
sdE=0.0
fwE=0.00
20181127T212012.0001.fits
SecZ=1.48
Focus=-5.558
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.065 -5.509 -4.100
T123=5.8 6.9 8.4
ALT/AZ=42.4 -158.9
sdW=1114.3
fwW=3.54
sdS=141.6
fwS=3.98
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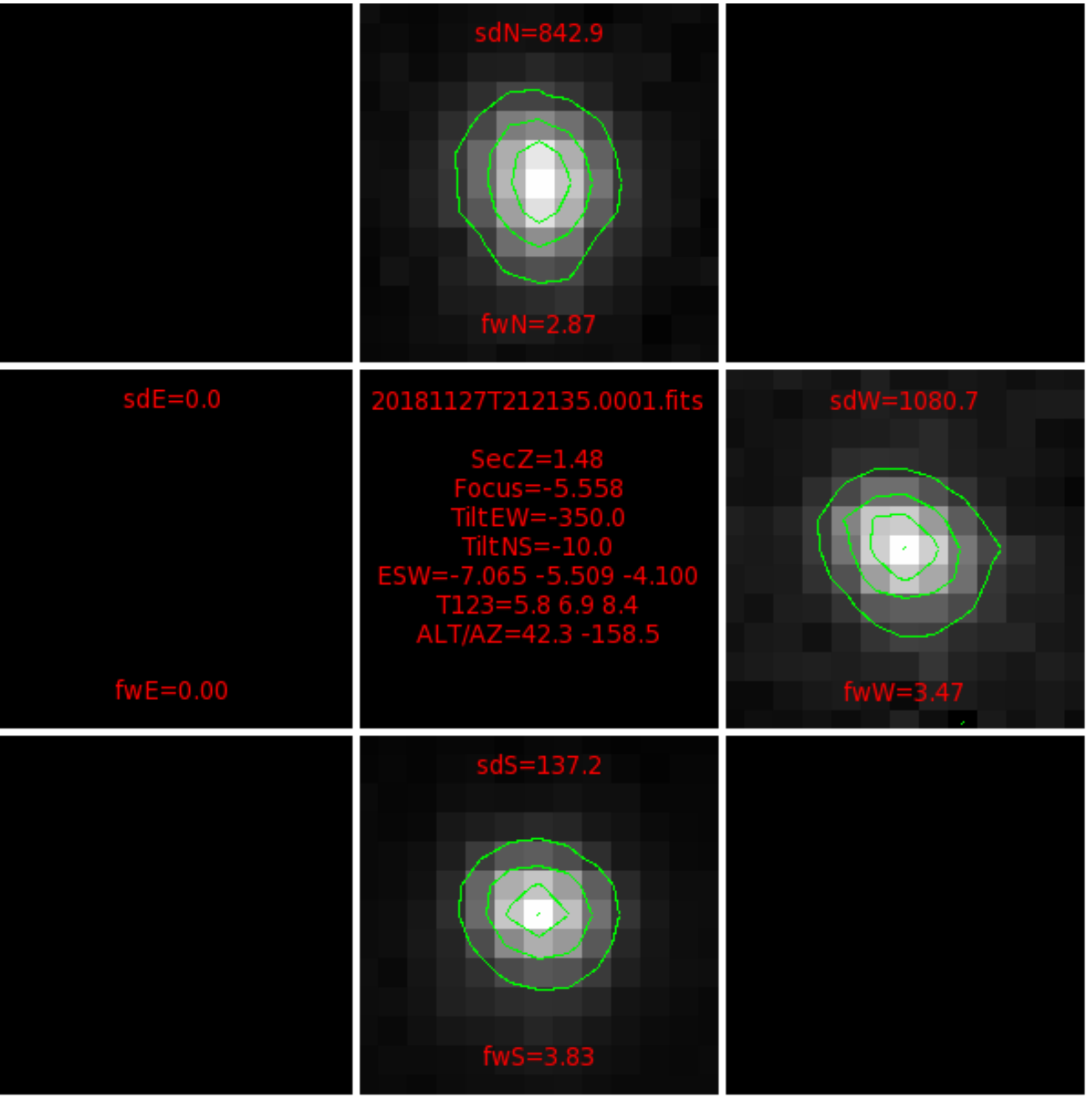
sdN=842.9
fwN=2.87
sdE=0.0
fwE=0.00
20181127T212135.0001.fits
SecZ=1.48
Focus=-5.558
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.065 -5.509 -4.100
T123=5.8 6.9 8.4
ALT/AZ=42.3 -158.5
sdW=1080.7
fwW=3.47
sdS=137.2
fwS=3.83
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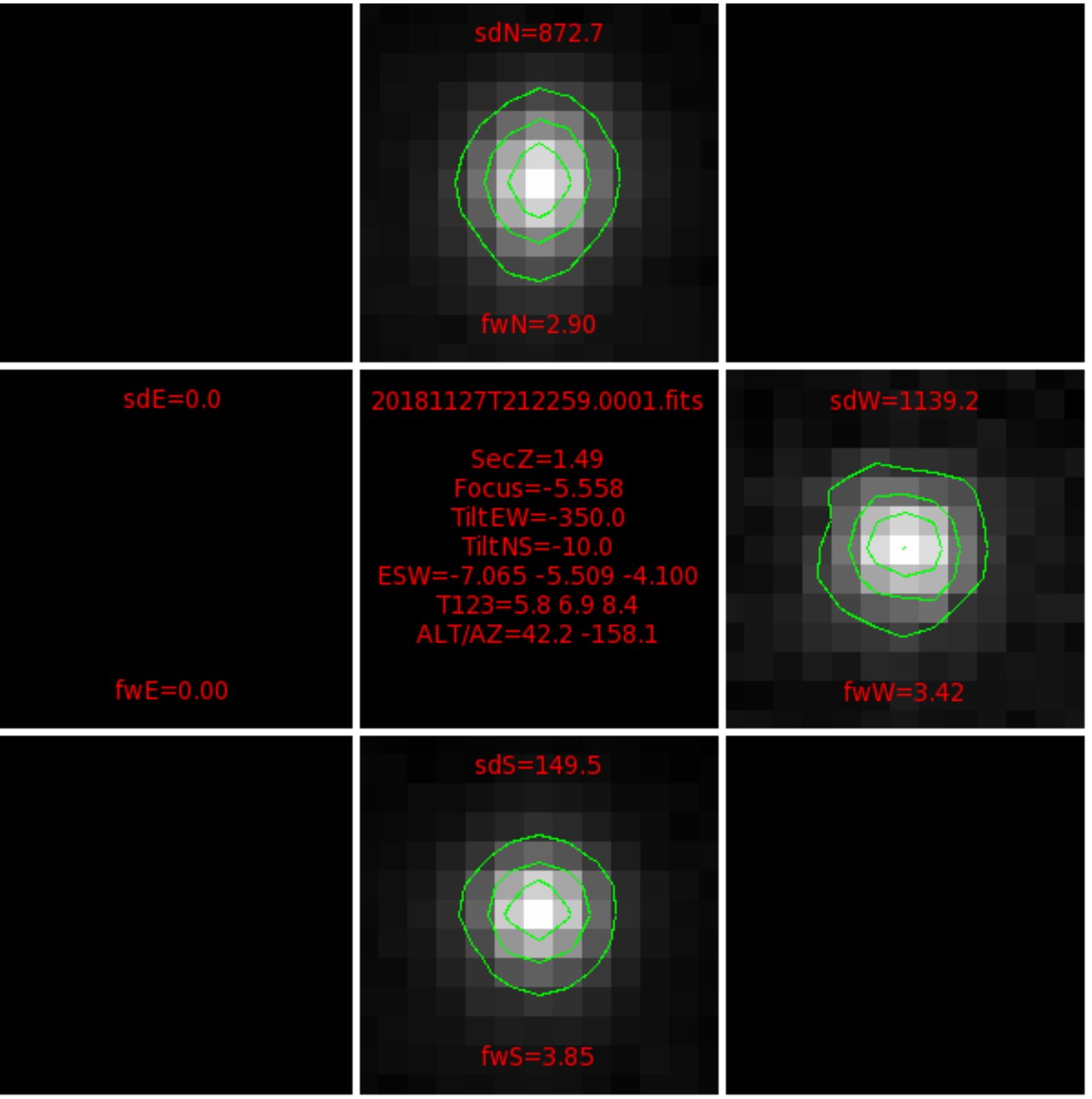
sdN=872.7
fwN=2.90
sdE=0.0
fwE=0.00
20181127T212259.0001.fits
SecZ=1.49
Focus=-5.558
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.065 -5.509 -4.100
T123=5.8 6.9 8.4
ALT/AZ=42.2 -158.1
sdW=1139.2
fwW=3.42
sdS=149.5
fwS=3.85
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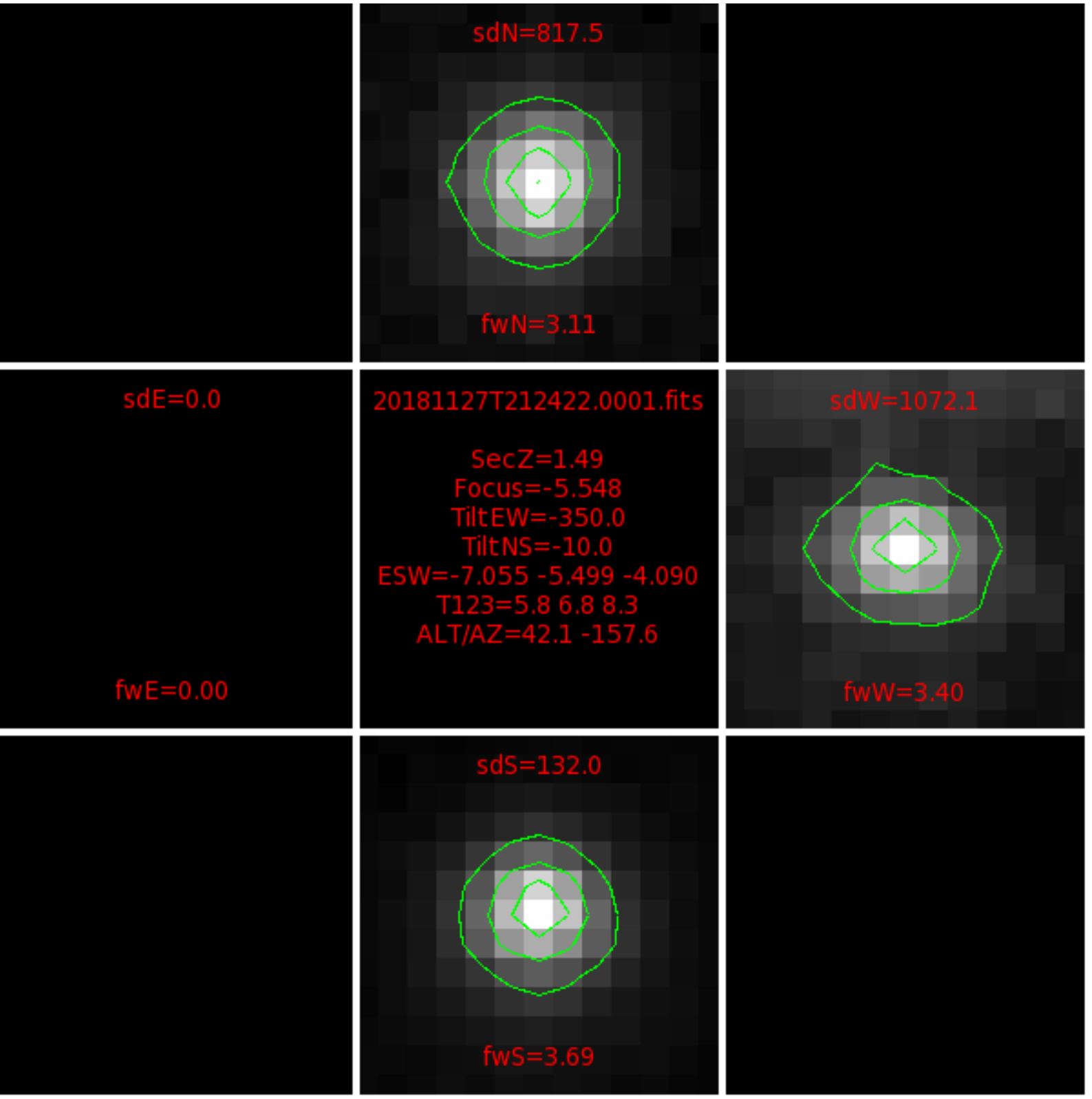
sdN=817.5
fwN=3.11
sdE=0.0
fwE=0.00
20181127T212422.0001.fits
SecZ=1.49
Focus=-5.548
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.055 -5.499 -4.090
T123=5.8 6.8 8.3
ALT/AZ=42.1 -157.6
sdW=1072.1
fwW=3.40
sdS=132.0
fwS=3.69
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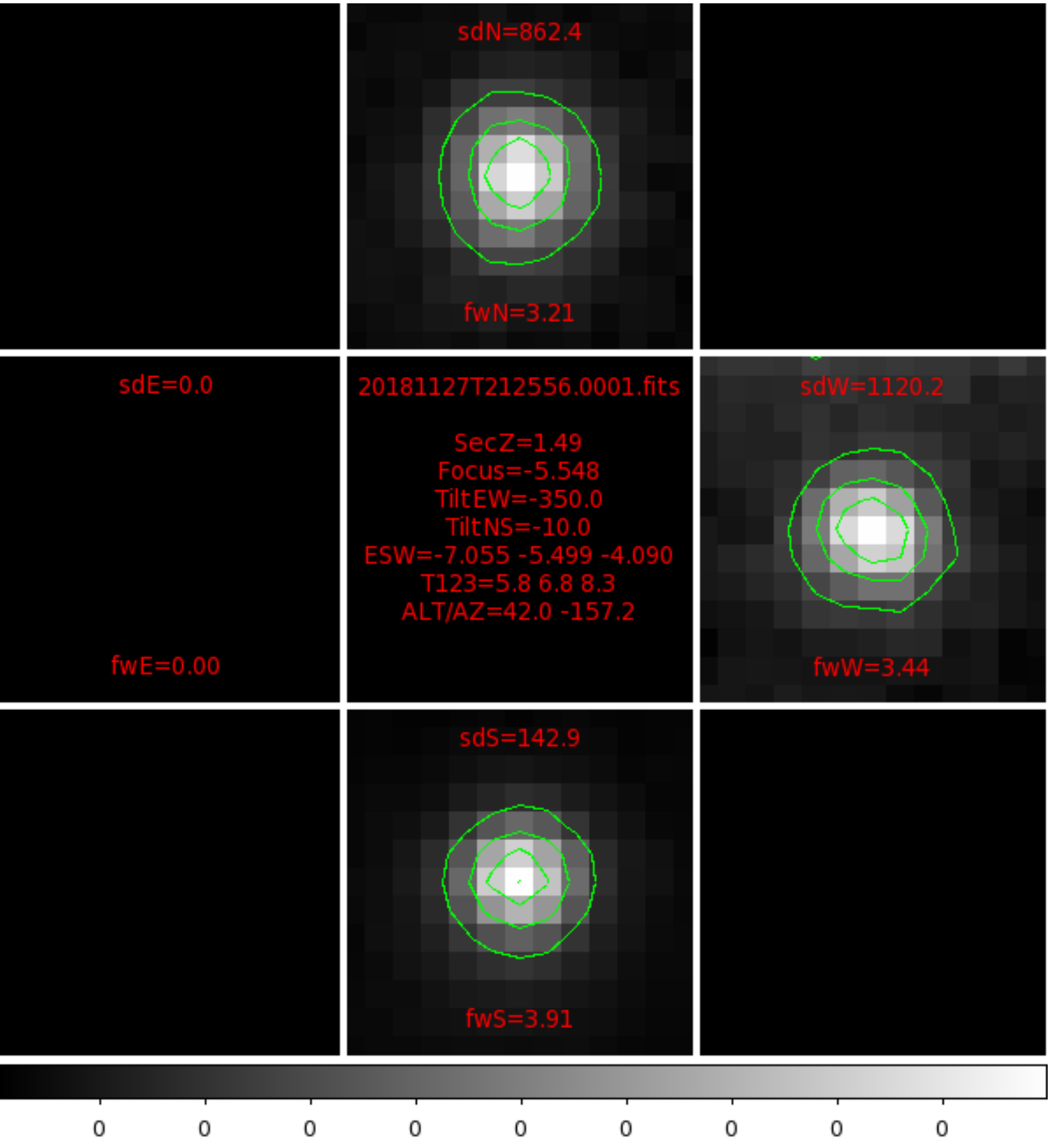
sdN=862.4
fwN=3.21
sdE=0.0
fwE=0.00
20181127T212556.0001.fits
SecZ=1.49
Focus=-5.548
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.055 -5.499 -4.090
T123=5.8 6.8 8.3
ALT/AZ=42.0 -157.2
sdW=1120.2
fwW=3.44
sdS=142.9
fwS=3.91
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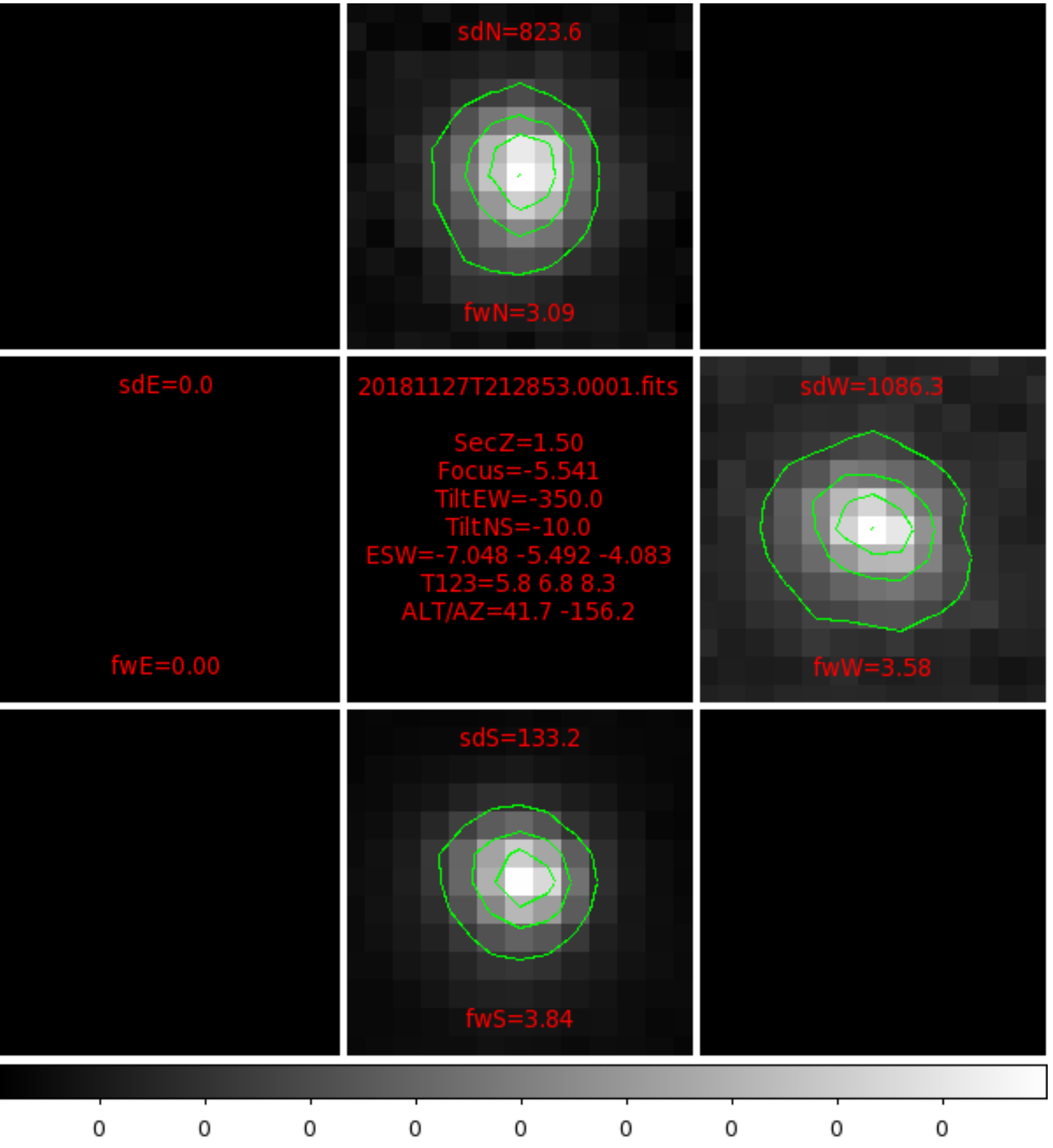
sdN=823.6
fwN=3.09
sdE=0.0
fwE=0.00
20181127T212853.0001.fits
SecZ=1.50
Focus=-5.541
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.048 -5.492 -4.083
T123=5.8 6.8 8.3
ALT/AZ=41.7 -156.2
sdW=1086.3
fwW=3.58
sdS=133.2
fwS=3.84
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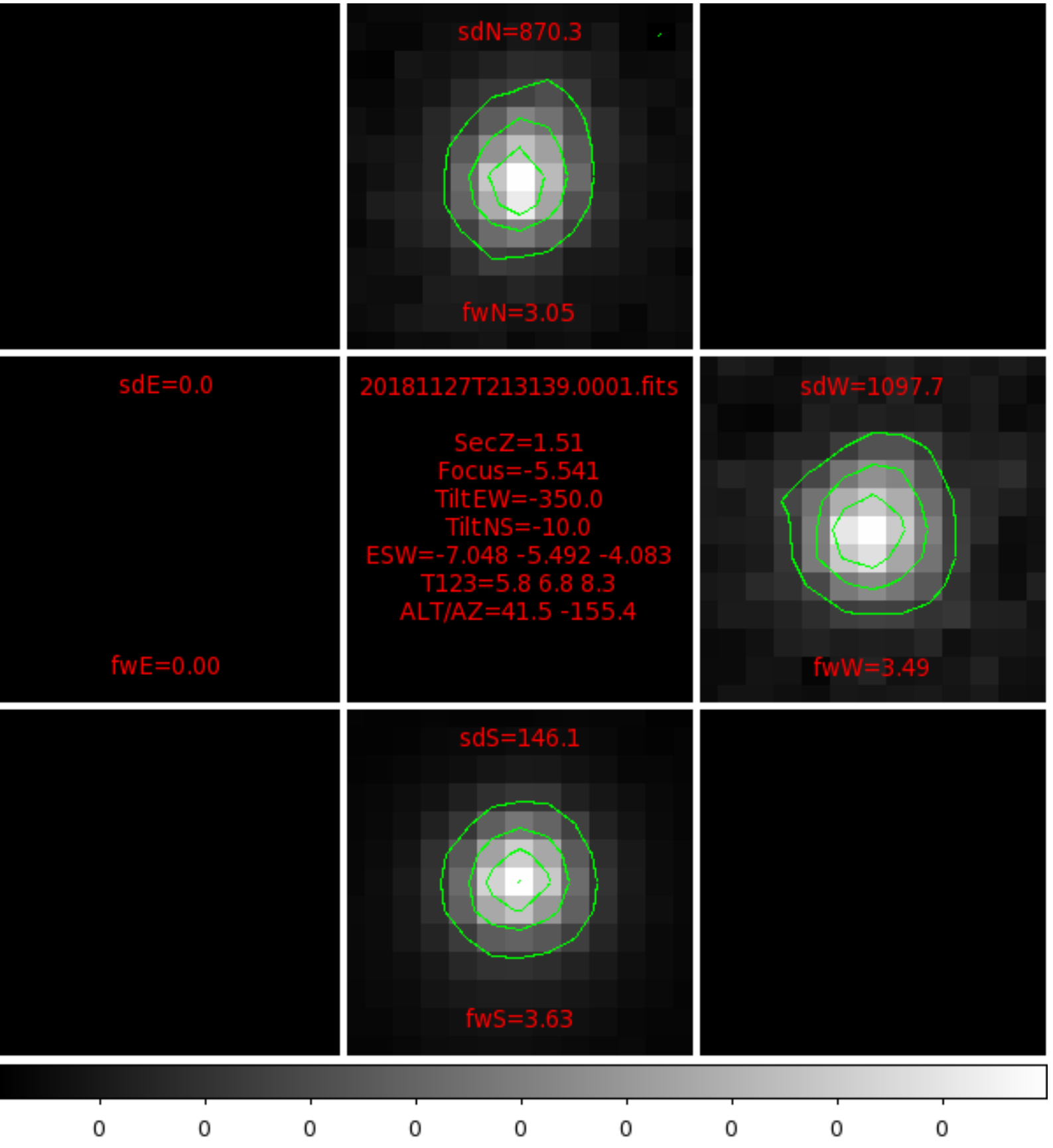
sdN=870.3
fwN=3.05
sdE=0.0
fwE=0.00
20181127T213139.0001.fits
SecZ=1.51
Focus=-5.541
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.048 -5.492 -4.083
T123=5.8 6.8 8.3
ALT/AZ=41.5 -155.4
sdW=1097.7
fwW=3.49
sdS=146.1
fwS=3.63
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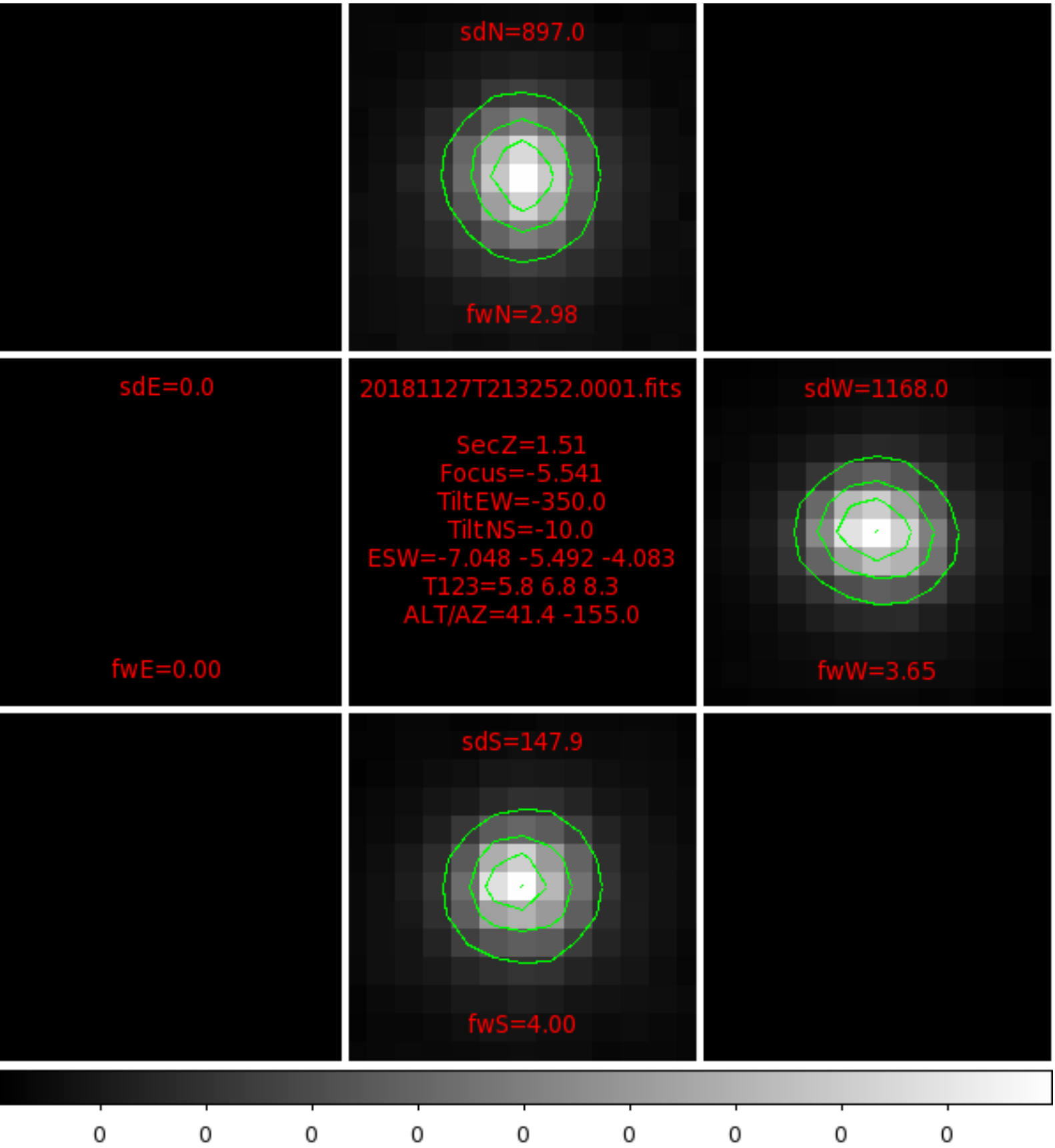
sdN=897.0
fwN=2.98
sdE=0.0
fwE=0.00
20181127T213252.0001.fits
SecZ=1.51
Focus=-5.541
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.048 -5.492 -4.083
T123=5.8 6.8 8.3
ALT/AZ=41.4 -155.0
sdW=1168.0
fwW=3.65
sdS=147.9
fwS=4.00
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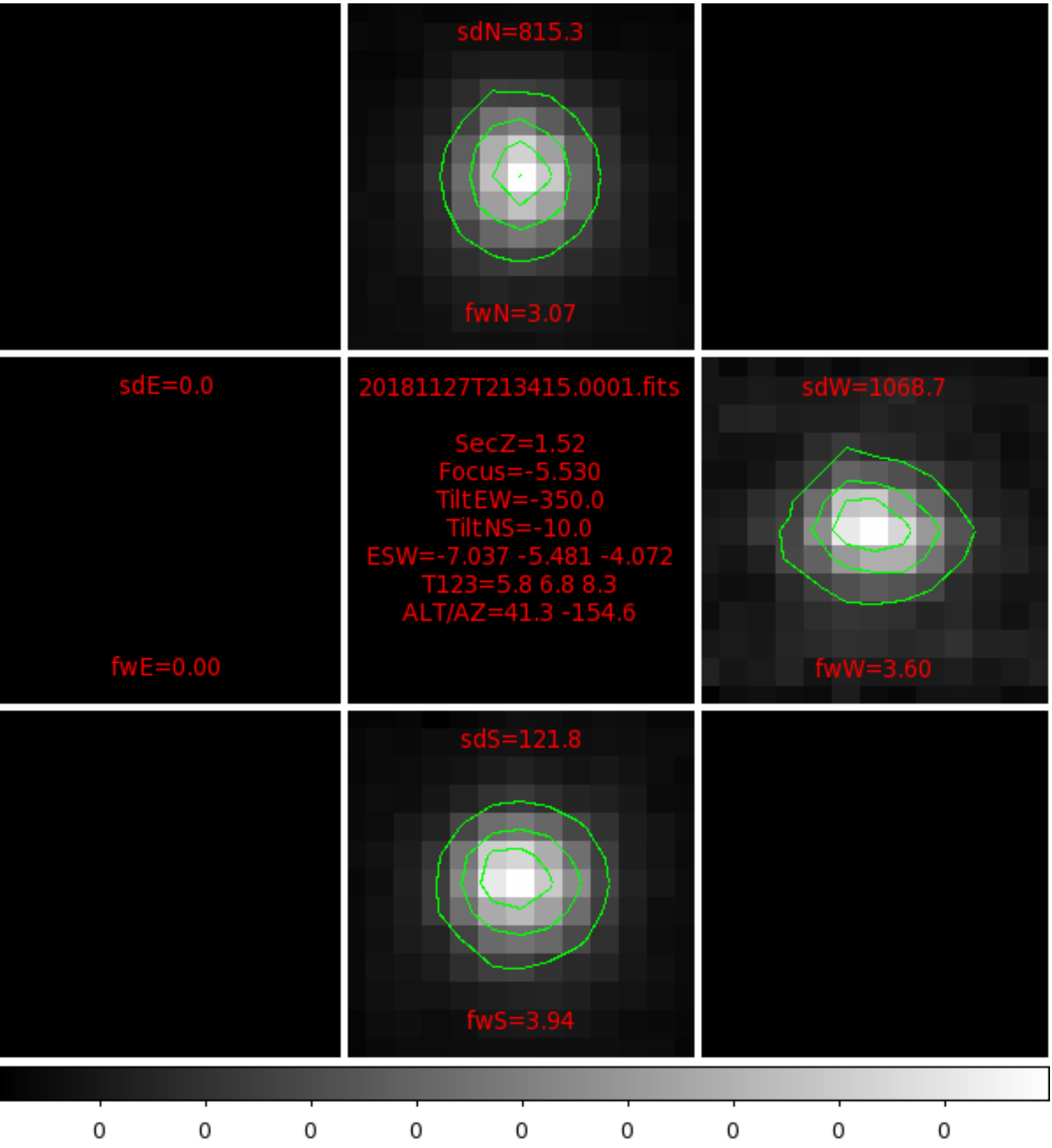
sdN=815.3
fwN=3.07
sdE=0.0
fwE=0.00
20181127T213415.0001.fits
SecZ=1.52
Focus=-5.530
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.037 -5.481 -4.072
T123=5.8 6.8 8.3
ALT/AZ=41.3 -154.6
sdW=1068.7
fwW=3.60
sdS=121.8
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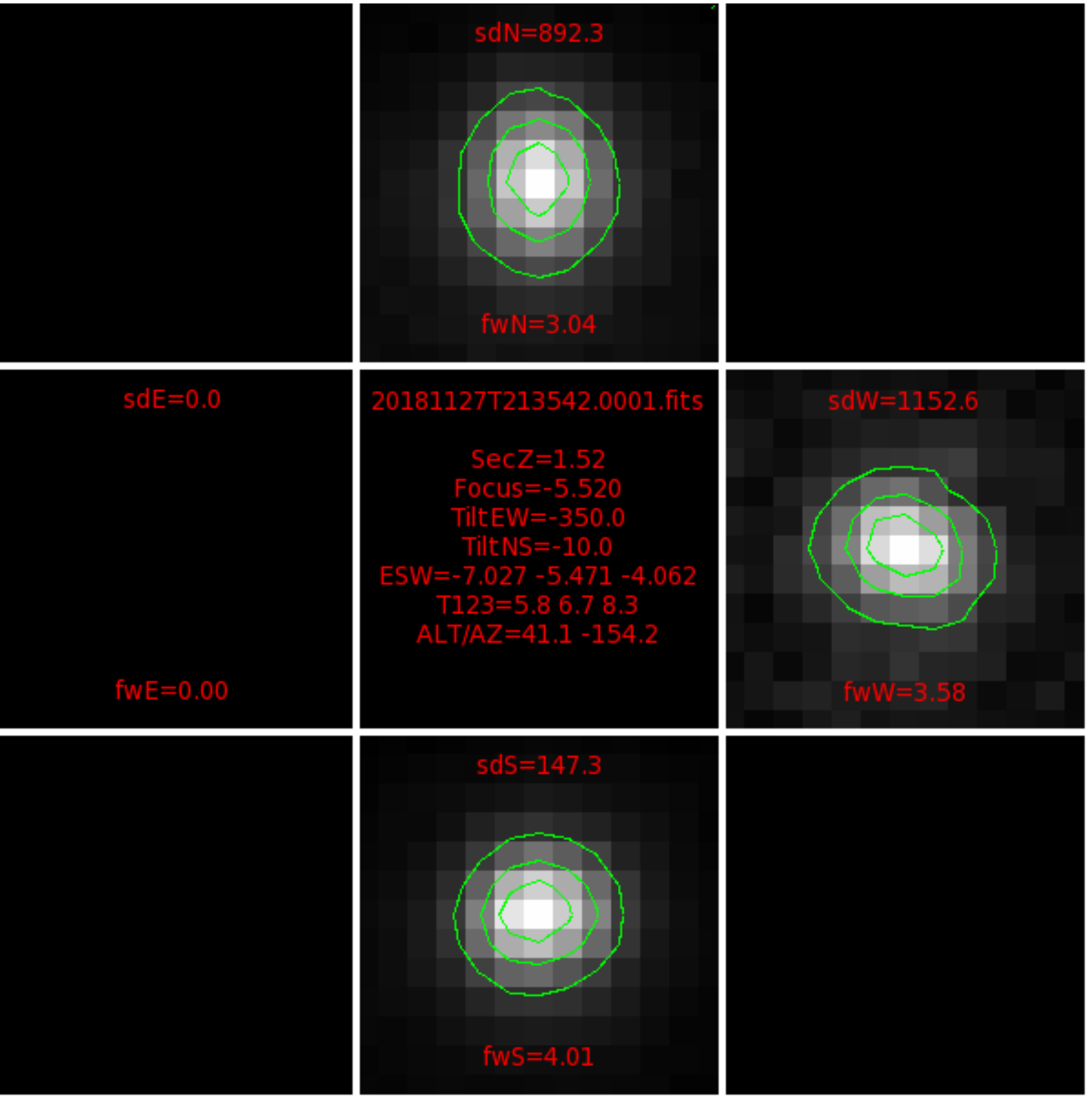
sdN=892.3
fwN=3.04
sdE=0.0
fwE=0.00
20181127T213542.0001.fits
SecZ=1.52
Focus=-5.520
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.027 -5.471 -4.062
T123=5.8 6.7 8.3
ALT/AZ=41.1 -154.2
sdW=1152.6
fwW=3.58
sdS=147.3
fwS=4.01
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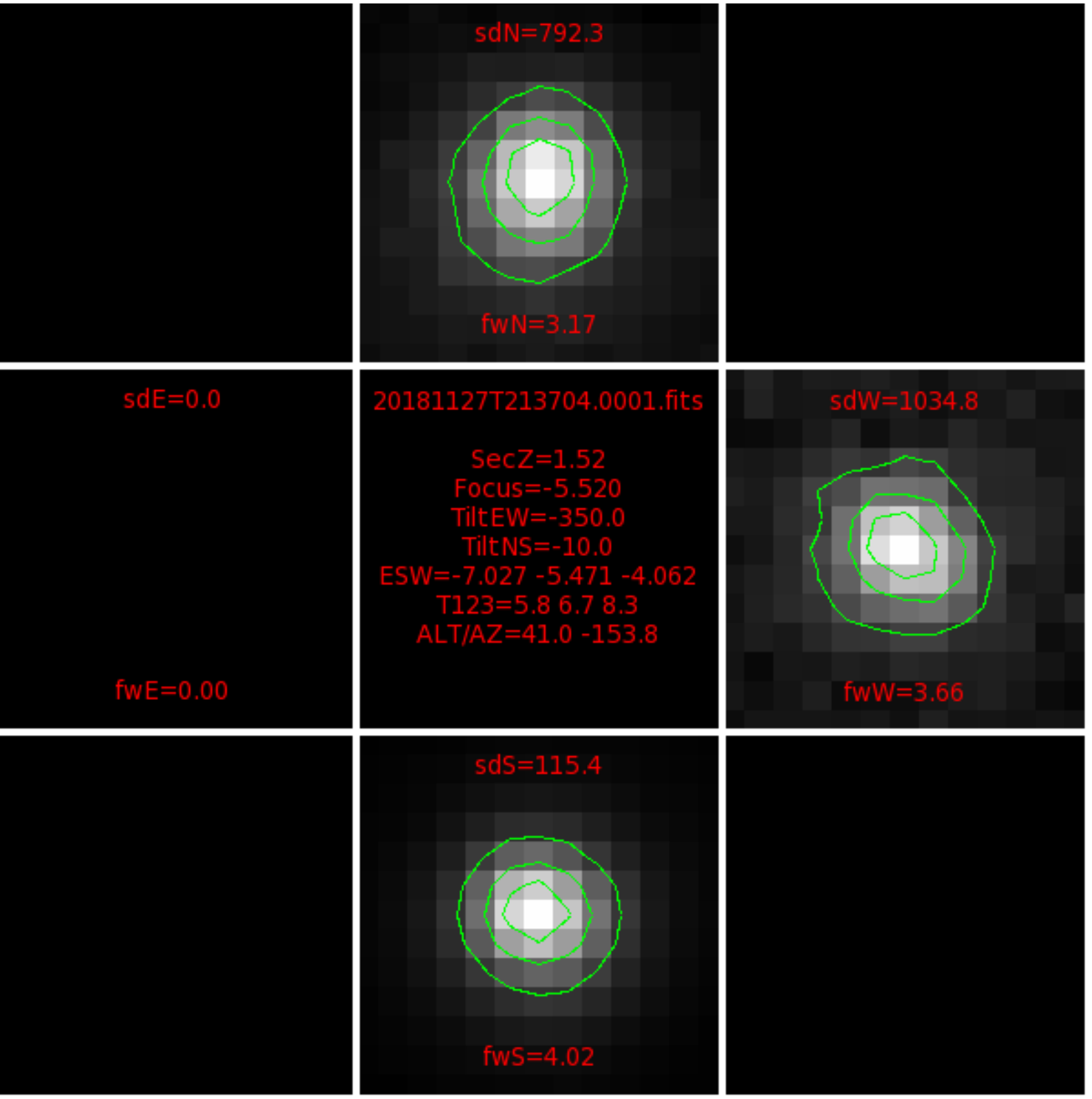
sdN=792.3
fwN=3.17
sdE=0.0
fwE=0.00
20181127T213704.0001.fits
SecZ=1.52
Focus=-5.520
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.027 -5.471 -4.062
T123=5.8 6.7 8.3
ALT/AZ=41.0 -153.8
sdW=1034.8
fwW=3.66
sdS=115.4
fwS=4.02
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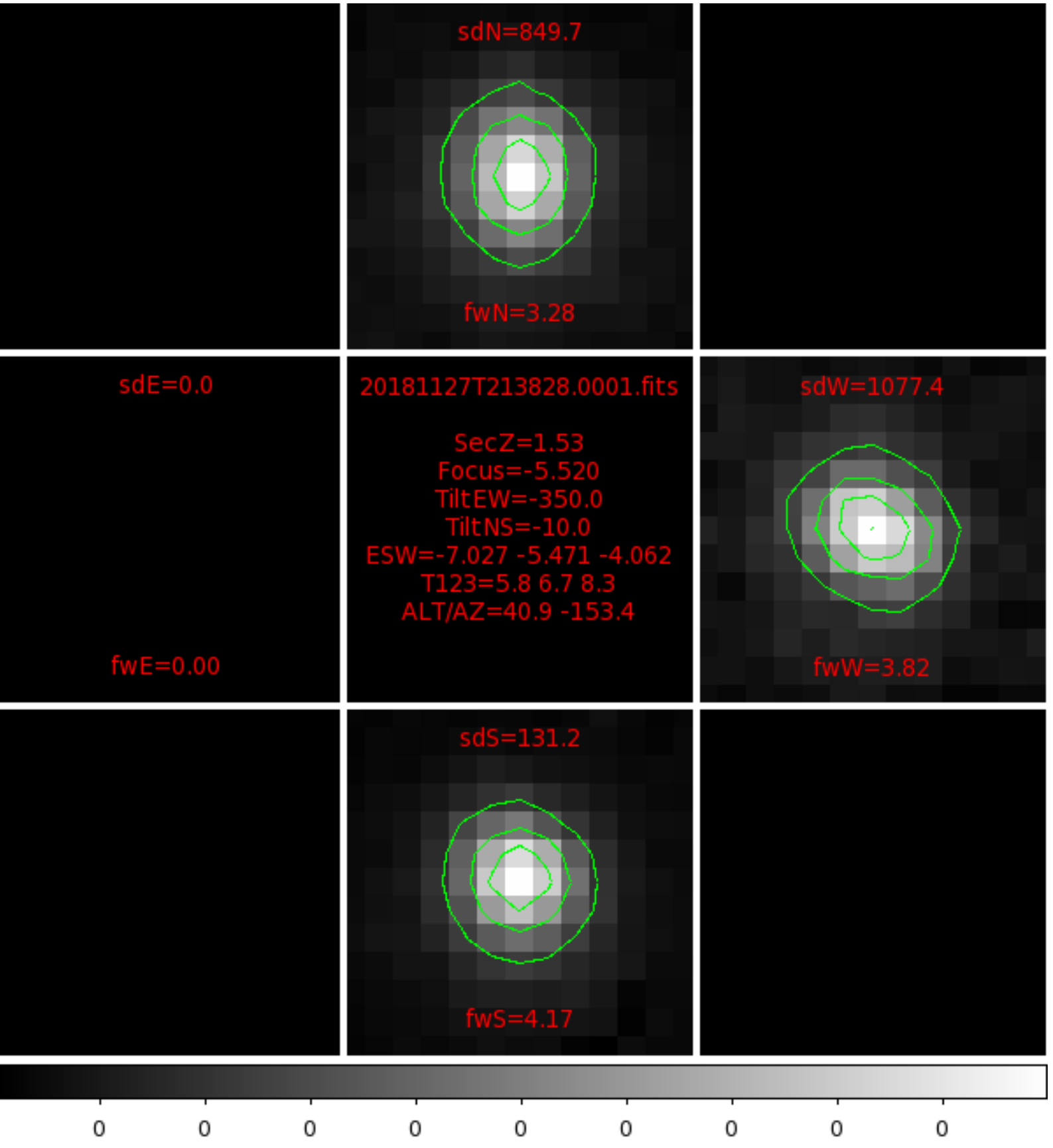
sdN=849.7
fwN=3.28
sdE=0.0
fwE=0.00
20181127T213828.0001.fits
SecZ=1.53
Focus=-5.520
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.027 -5.471 -4.062
T123=5.8 6.7 8.3
ALT/AZ=40.9 -153.4
sdW=1077.4
fwW=3.82
sdS=131.2
fwS=4.17
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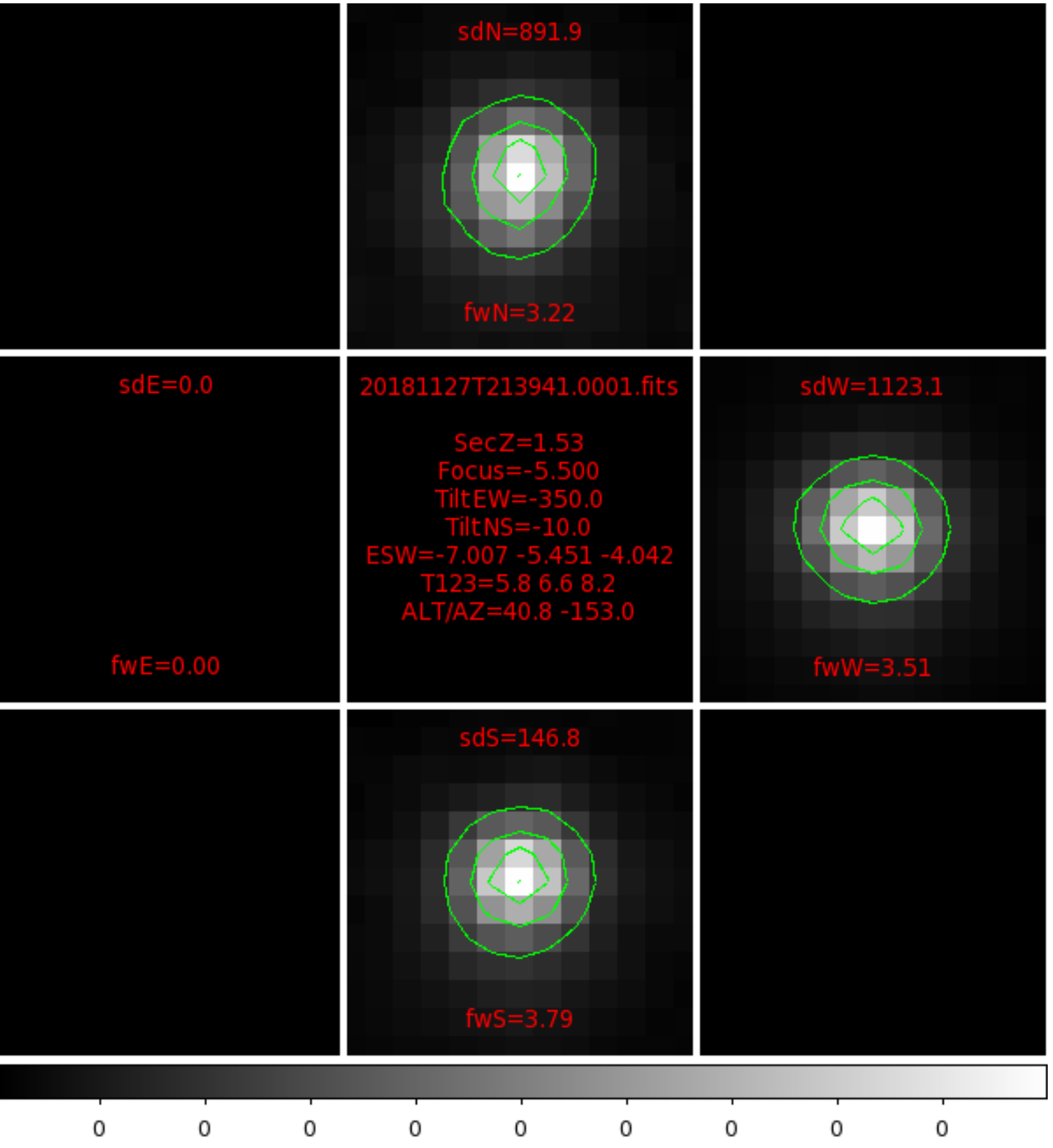
sdN=891.9
fwN=3.22
sdE=0.0
fwE=0.00
20181127T213941.0001.fits
SecZ=1.53
Focus=-5.500
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.007 -5.451 -4.042
T123=5.8 6.6 8.2
ALT/AZ=40.8 -153.0
sdW=1123.1
fwW=3.51
sdS=146.8
fwS=3.79
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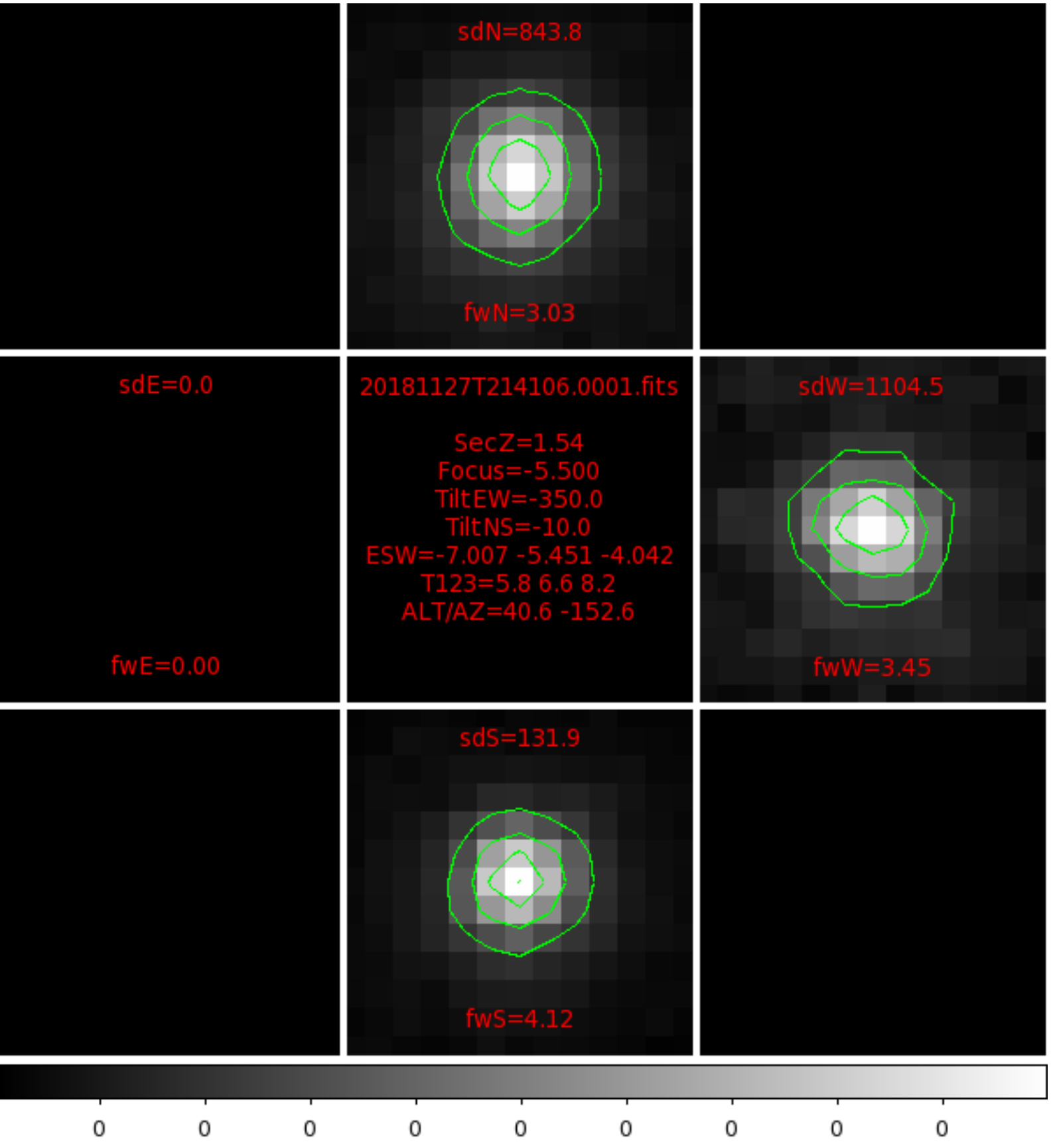
sdN=843.8
fwN=3.03
sdE=0.0
fwE=0.00
20181127T214106.0001.fits
SecZ=1.54
Focus=-5.500
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.007 -5.451 -4.042
T123=5.8 6.6 8.2
ALT/AZ=40.6 -152.6
sdW=1104.5
fwW=3.45
sdS=131.9
fwS=4.12
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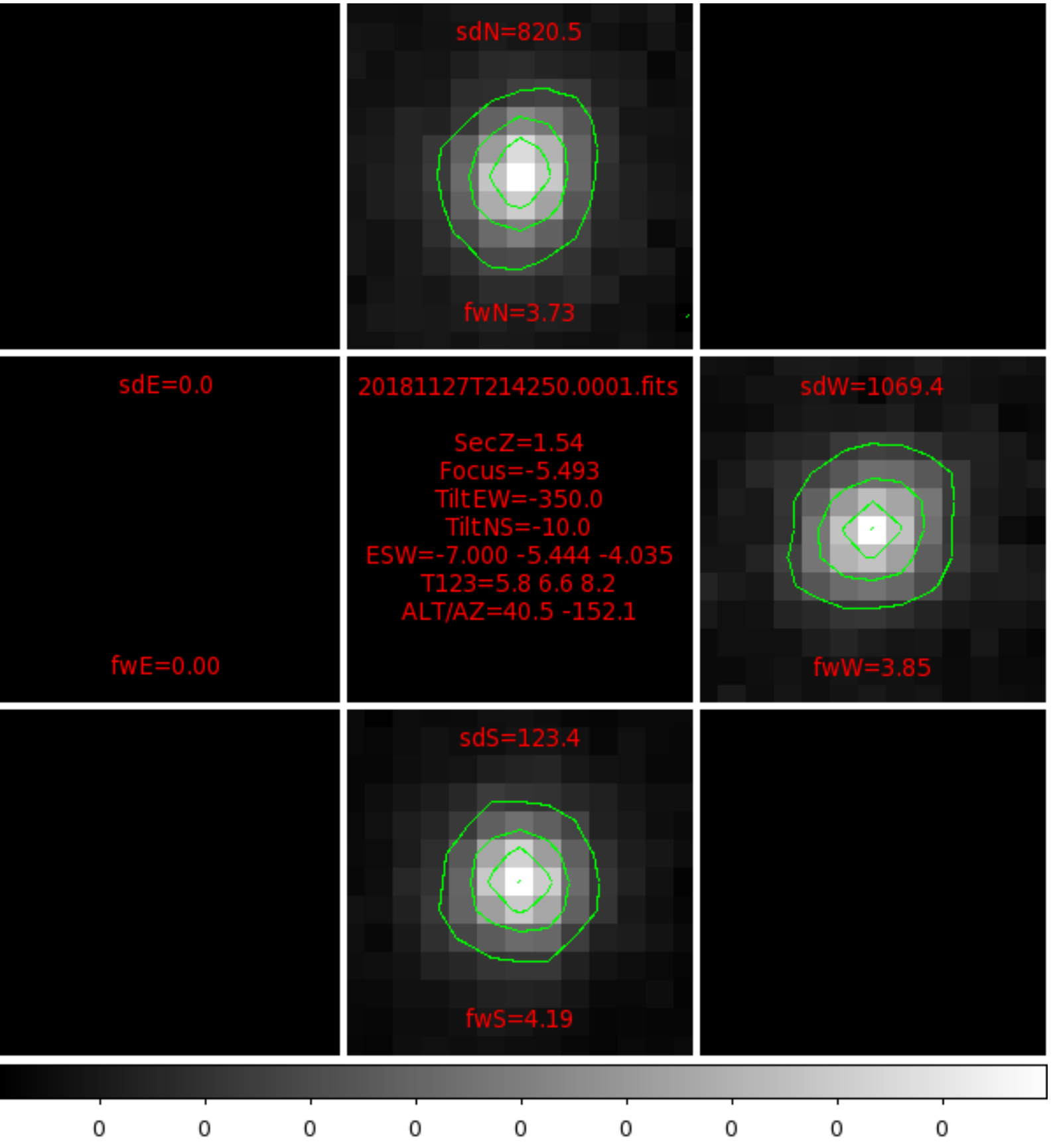
sdN=820.5
fwN=3.73
sdE=0.0
fwE=0.00
20181127T214250.0001.fits
SecZ=1.54
Focus=-5.493
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.000 -5.444 -4.035
T123=5.8 6.6 8.2
ALT/AZ=40.5 -152.1
sdW=1069.4
fwW=3.85
sdS=123.4
fwS=4.19
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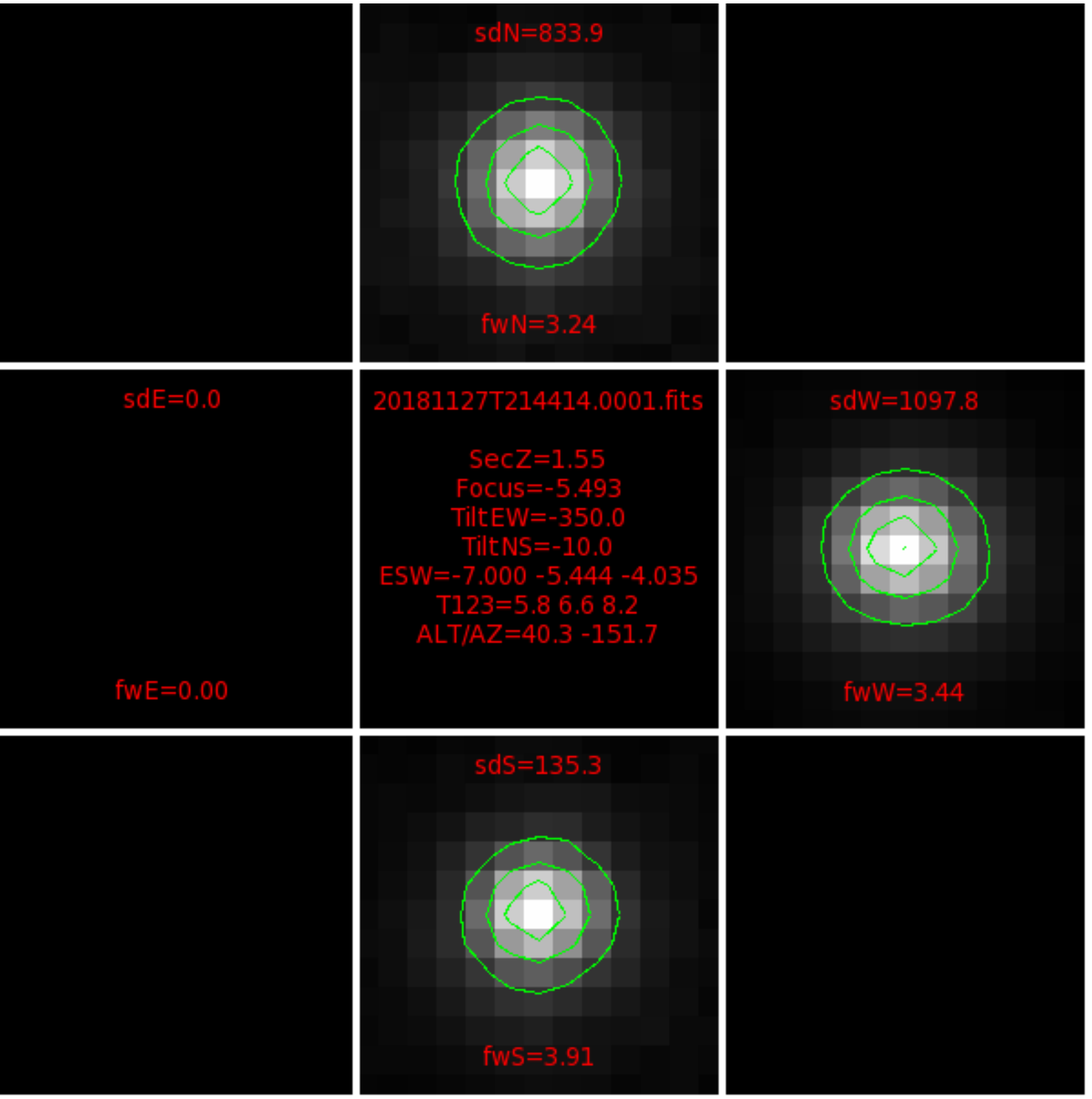
sdN=833.9
fwN=3.24
sdE=0.0
fwE=0.00
20181127T214414.0001.fits
SecZ=1.55
Focus=-5.493
TiltEW=-350.0
TiltNS=-10.0
ESW=-7.000 -5.444 -4.035
T123=5.8 6.6 8.2
ALT/AZ=40.3 -151.7
sdW=1097.8
fwW=3.44
sdS=135.3
fwS=3.91
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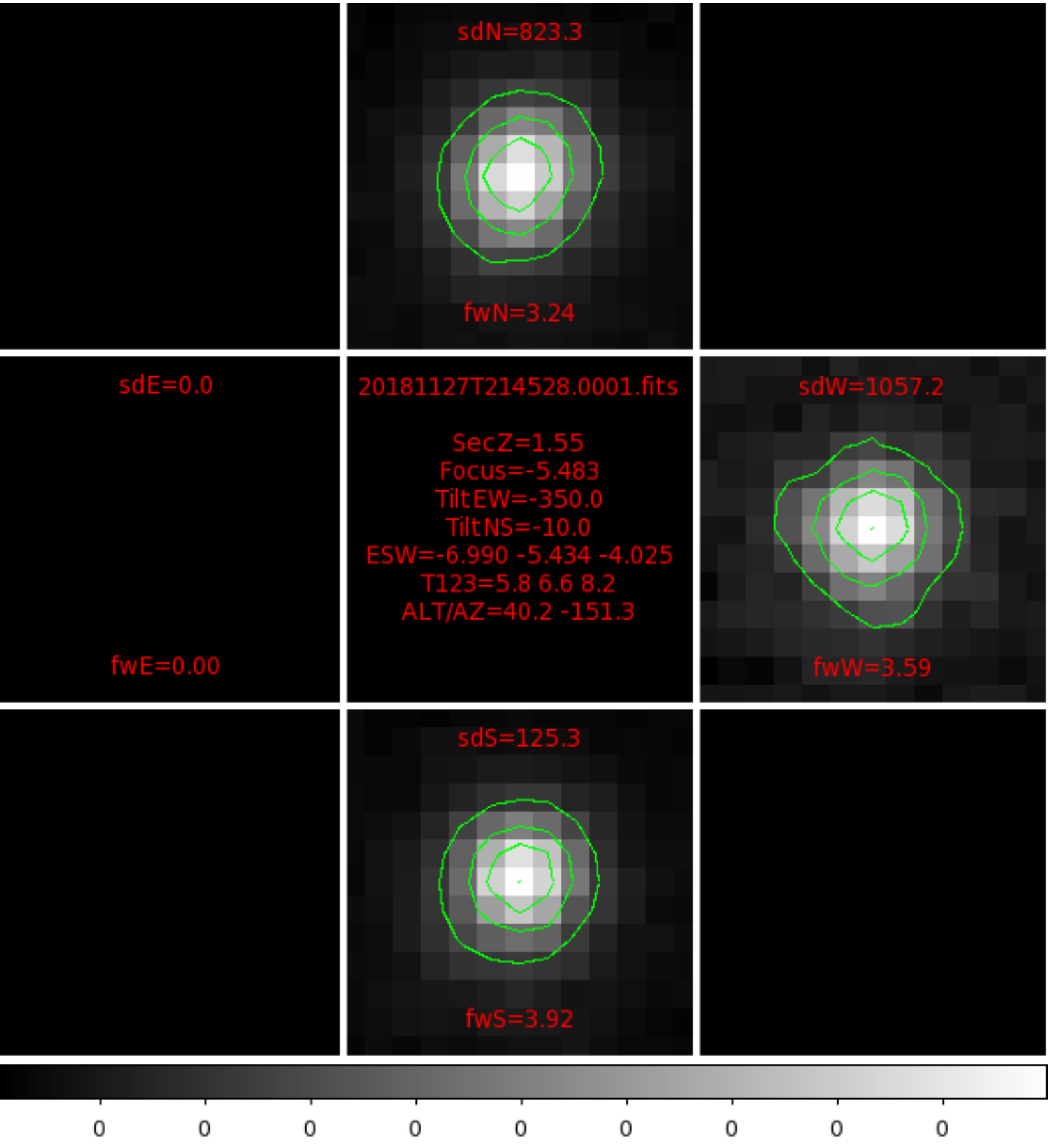
sdN=823.3
fwN=3.24
sdE=0.0
fwE=0.00
20181127T214528.0001.fits
SecZ=1.55
Focus=-5.483
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.990 -5.434 -4.025
T123=5.8 6.6 8.2
ALT/AZ=40.2 -151.3
sdW=1057.2
fwW=3.59
sdS=125.3
fwS=3.92
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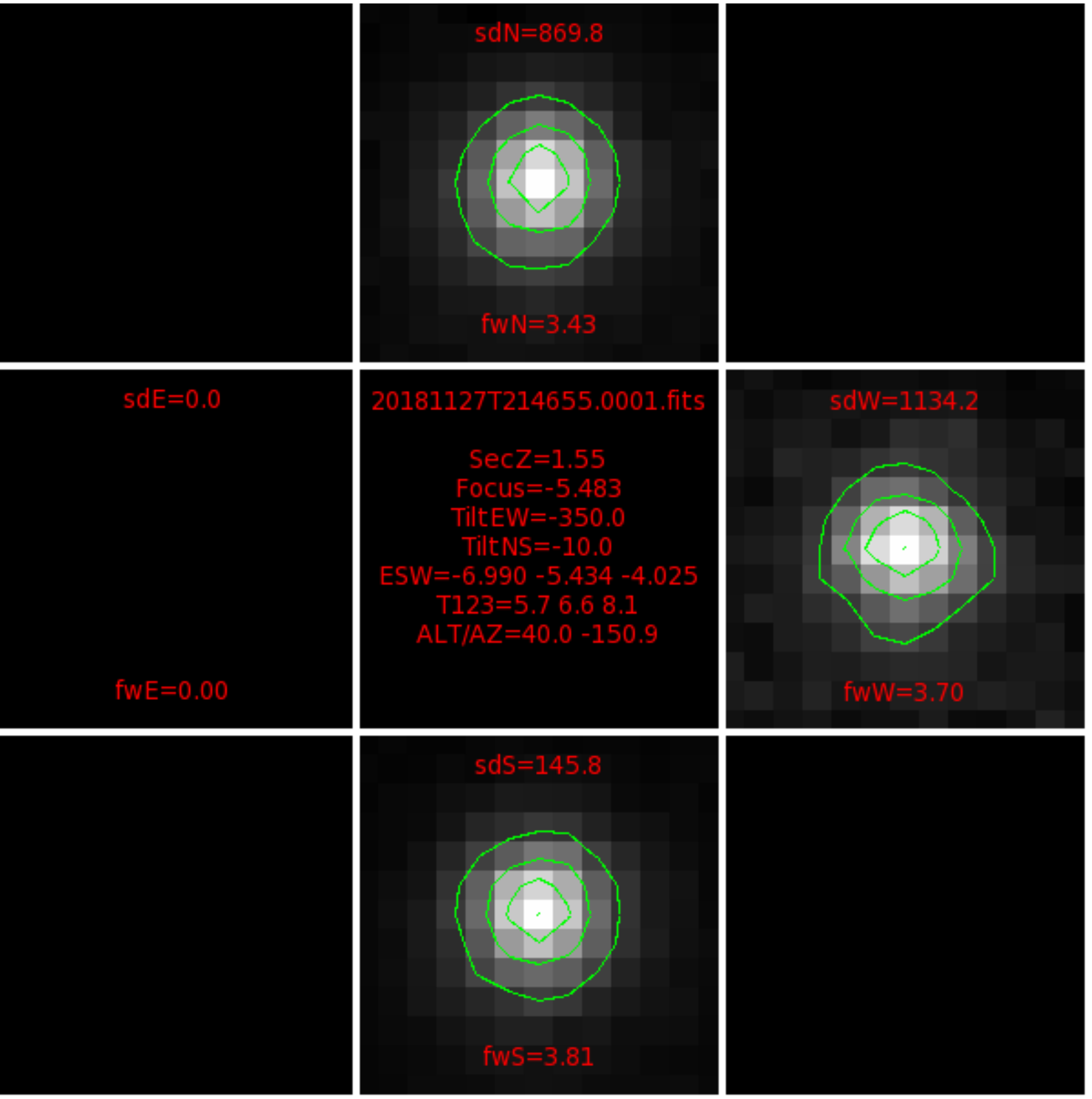
sdN=869.8
fwN=3.43
sdE=0.0
fwE=0.00
20181127T214655.0001.fits
SecZ=1.55
Focus=-5.483
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.990 -5.434 -4.025
T123=5.7 6.6 8.1
ALT/AZ=40.0 -150.9
sdW=1134.2
fwW=3.70
sdS=145.8
fwS=3.81
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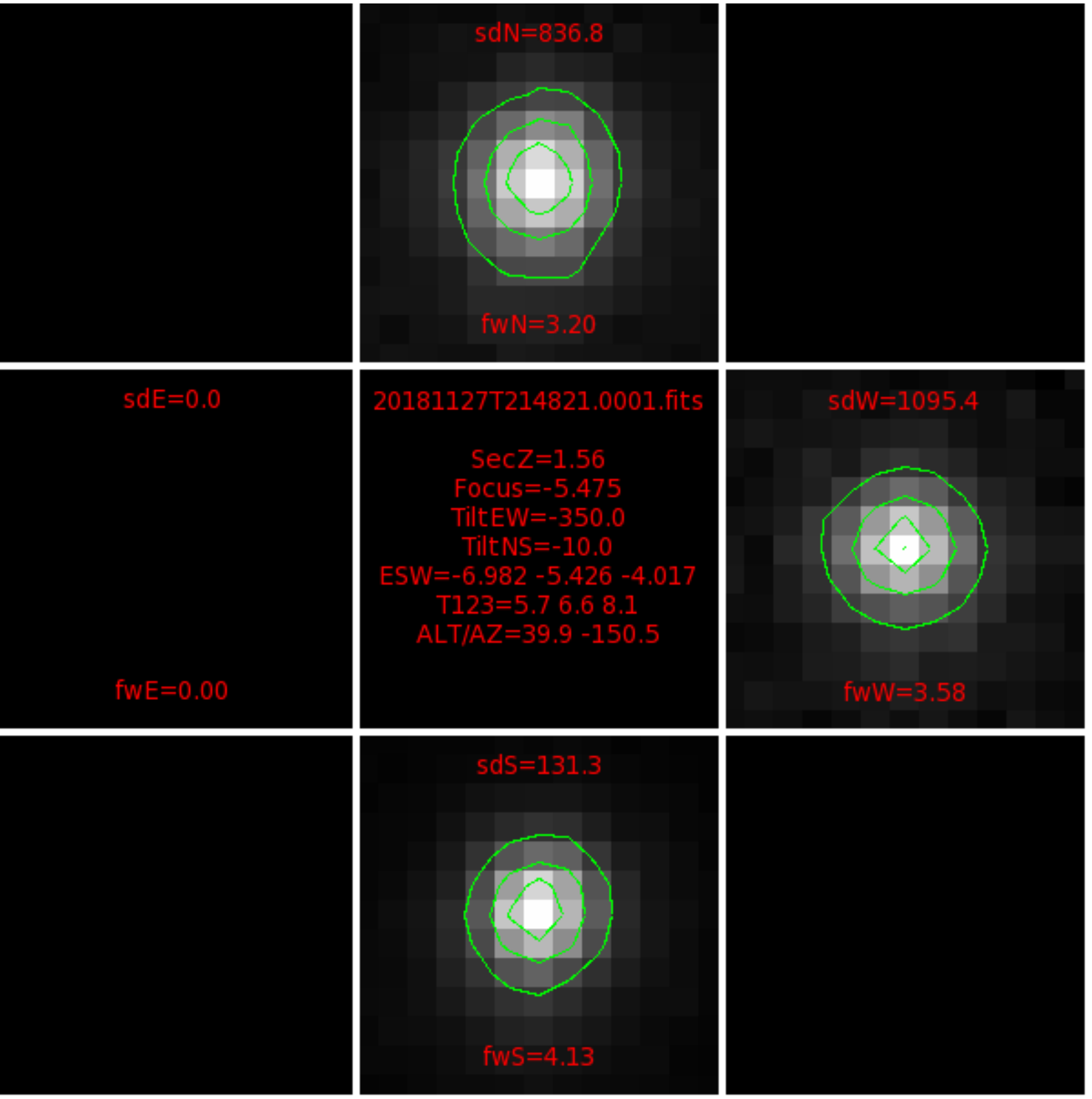
sdN=836.8
fwN=3.20
sdE=0.0
fwE=0.00
20181127T214821.0001.fits
SecZ=1.56
Focus=-5.475
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.982 -5.426 -4.017
T123=5.7 6.6 8.1
ALT/AZ=39.9 -150.5
sdW=1095.4
fwW=3.58
sdS=131.3
fwS=4.13
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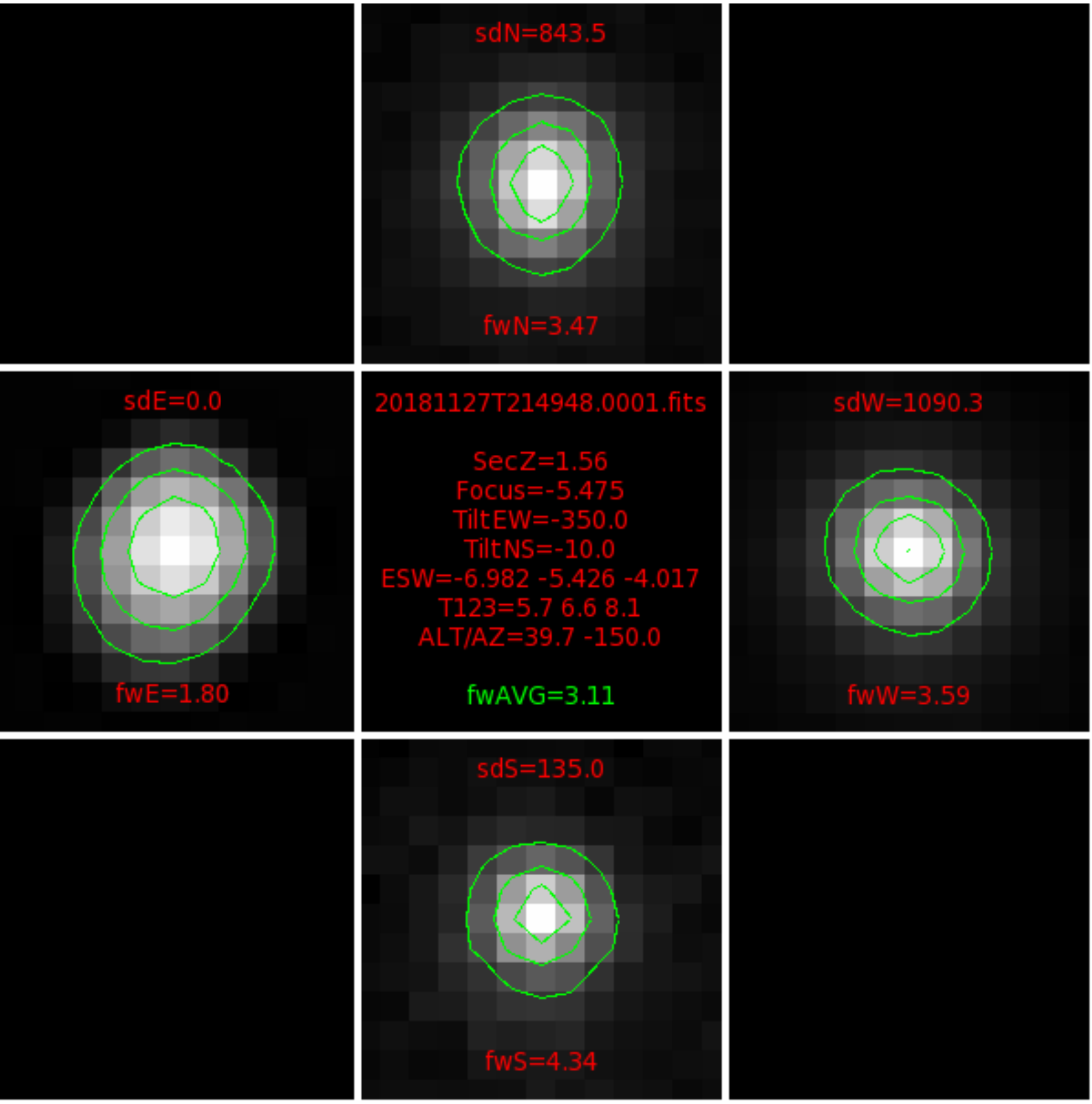
sdN=843.5
fwN=3.47
sdE=0.0
fwE=1.80
20181127T214948.0001.fits
SecZ=1.56
Focus=-5.475
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.982 -5.426 -4.017
T123=5.7 6.6 8.1
ALT/AZ=39.7 -150.0
fwAVG=3.11
sdW=1090.3
fwW=3.59
sdS=135.0
fwS=4.34
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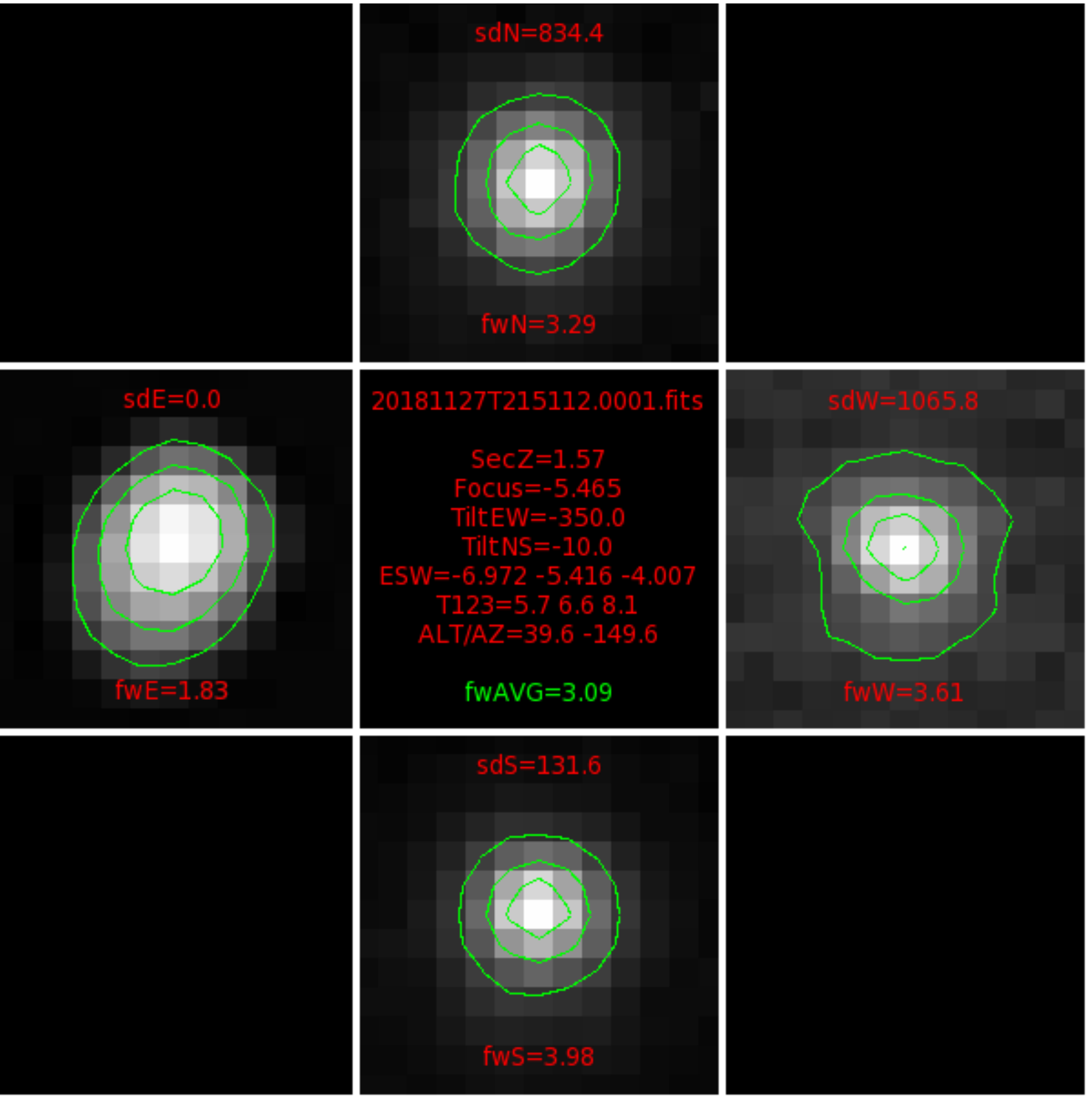
sdN=834.4
fwN=3.29
sdE=0.0
fwE=1.83
20181127T215112.0001.fits
SecZ=1.57
Focus=-5.465
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.972 -5.416 -4.007
T123=5.7 6.6 8.1
ALT/AZ=39.6 -149.6
fwAVG=3.09
sdW=1065.8
fwW=3.61
sdS=131.6
fwS=3.98
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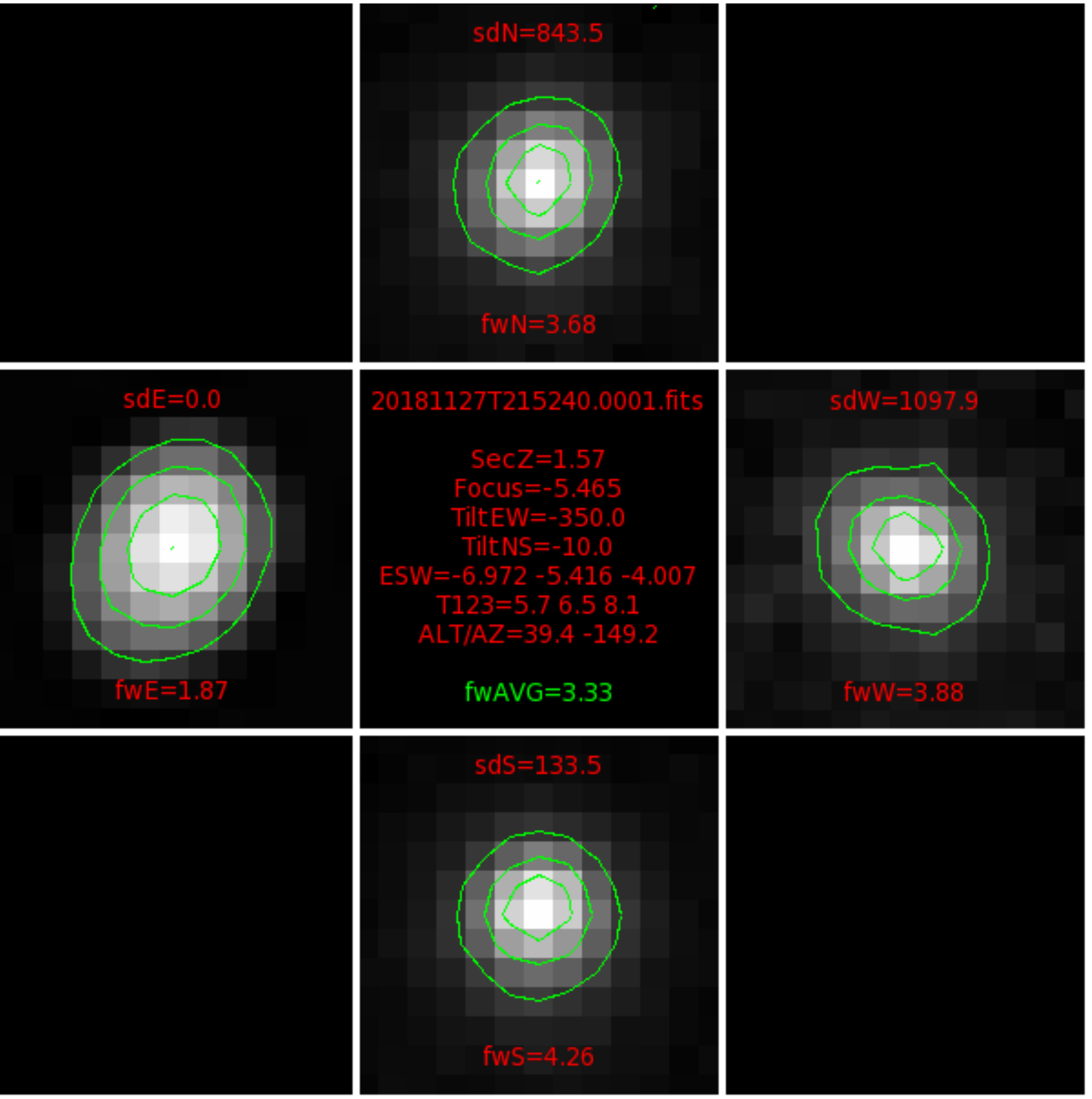
sdN=843.5
fwN=3.68
sdE=0.0
fwE=1.87
20181127T215240.0001.fits
SecZ=1.57
Focus=-5.465
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.972 -5.416 -4.007
T123=5.7 6.5 8.1
ALT/AZ=39.4 -149.2
fwAVG=3.33
sdW=1097.9
fwW=3.88
sdS=133.5
fwS=4.26
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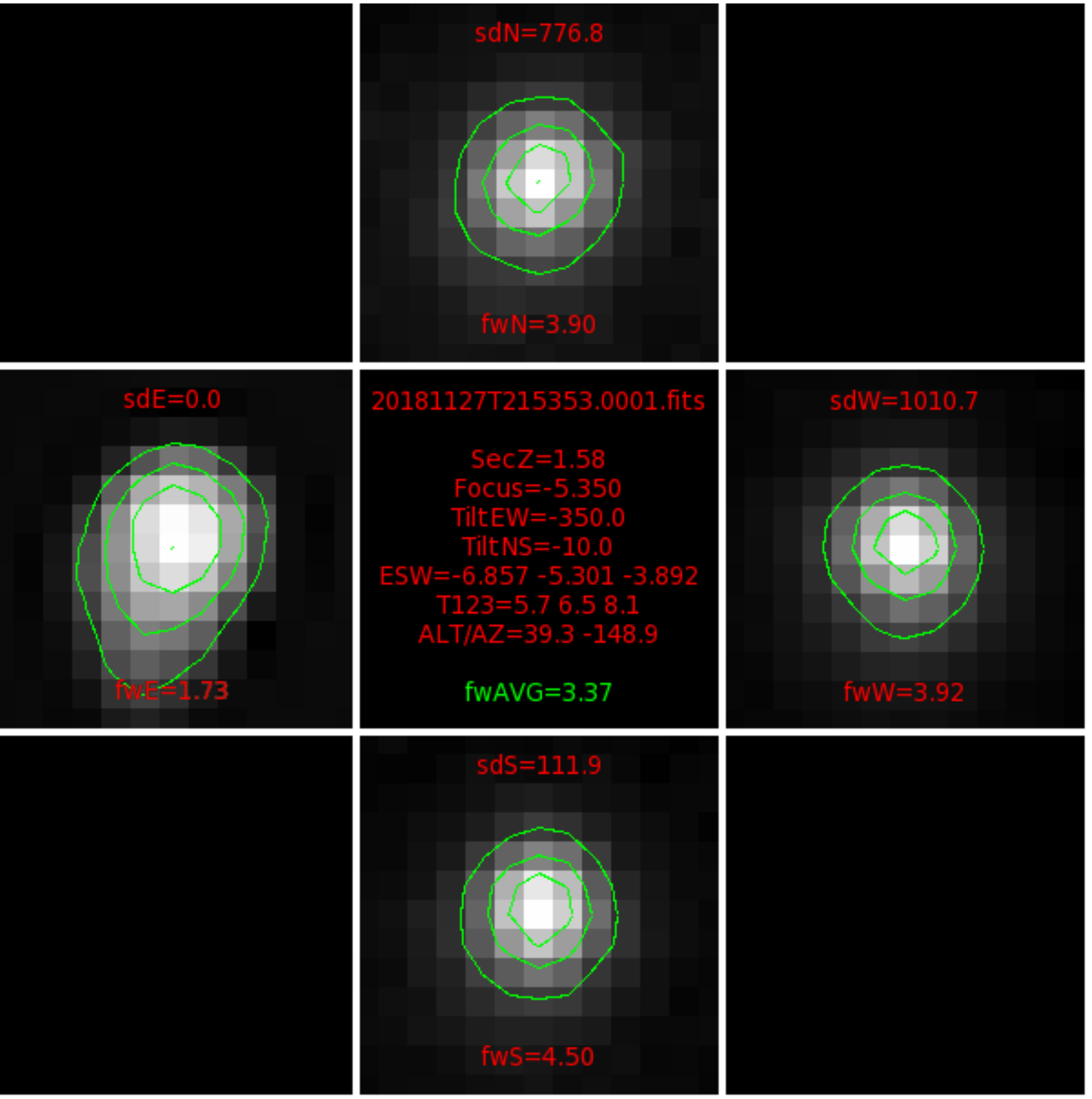
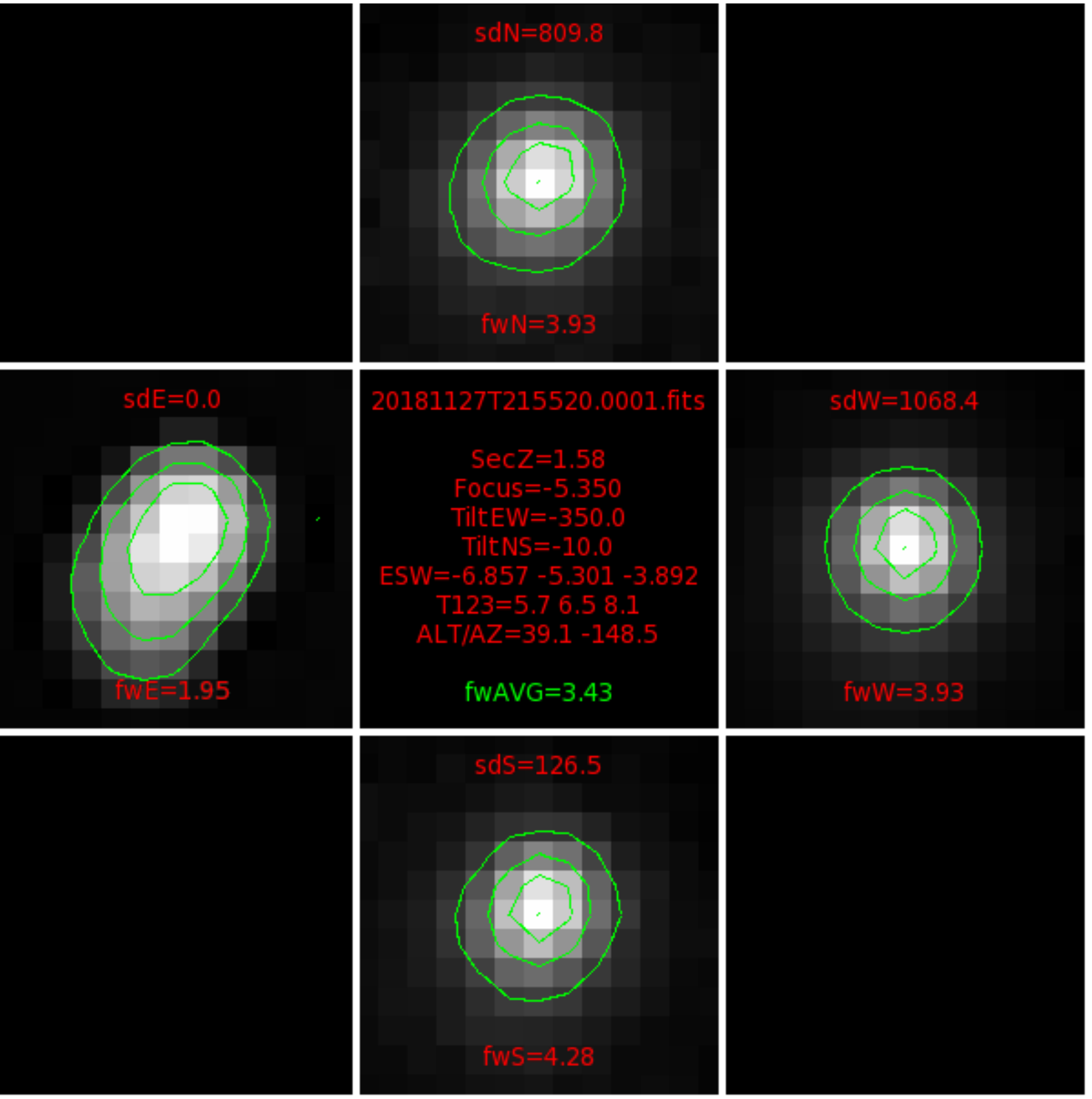

sdN=776.8
fwN=3.90
sdE=0.0
fwE=1.73
20181127T215353.0001.fits
SecZ=1.58
Focus=-5.350
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.857 -5.301 -3.892
T123=5.7 6.5 8.1
ALT/AZ=39.3 -148.9
fwAVG=3.37
sdW=1010.7
fwW=3.92
sdS=111.9
fwS=4.50
0 0 0 0 0 0 0 0 0


sdN=809.8
fwN=3.93
sdE=0.0
fwE=1.95
20181127T215520.0001.fits
SecZ=1.58
Focus=-5.350
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.857 -5.301 -3.892
T123=5.7 6.5 8.1
ALT/AZ=39.1 -148.5
fwAVG=3.43
sdW=1068.4
fwW=3.93
sdS=126.5
fwS=4.28
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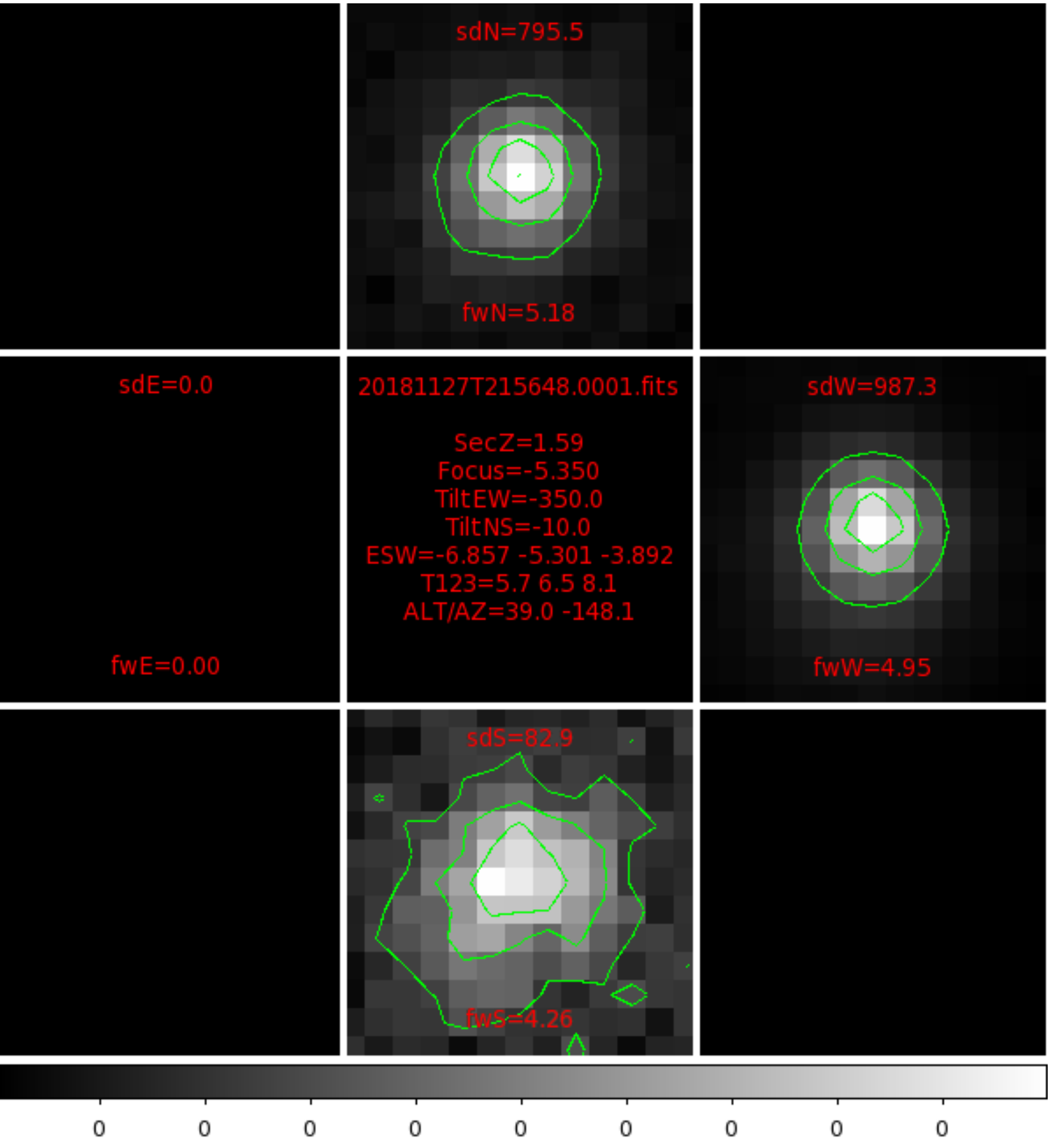
sdN=795.5
fwN=5.18
sdE=0.0
fwE=0.00
20181127T215648.0001.fits
SecZ=1.59
Focus=-5.350
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.857 -5.301 -3.892
T123=5.7 6.5 8.1
ALT/AZ=39.0 -148.1
sdW=987.3
fwW=4.95
sdS=82.9
fwS=4.26
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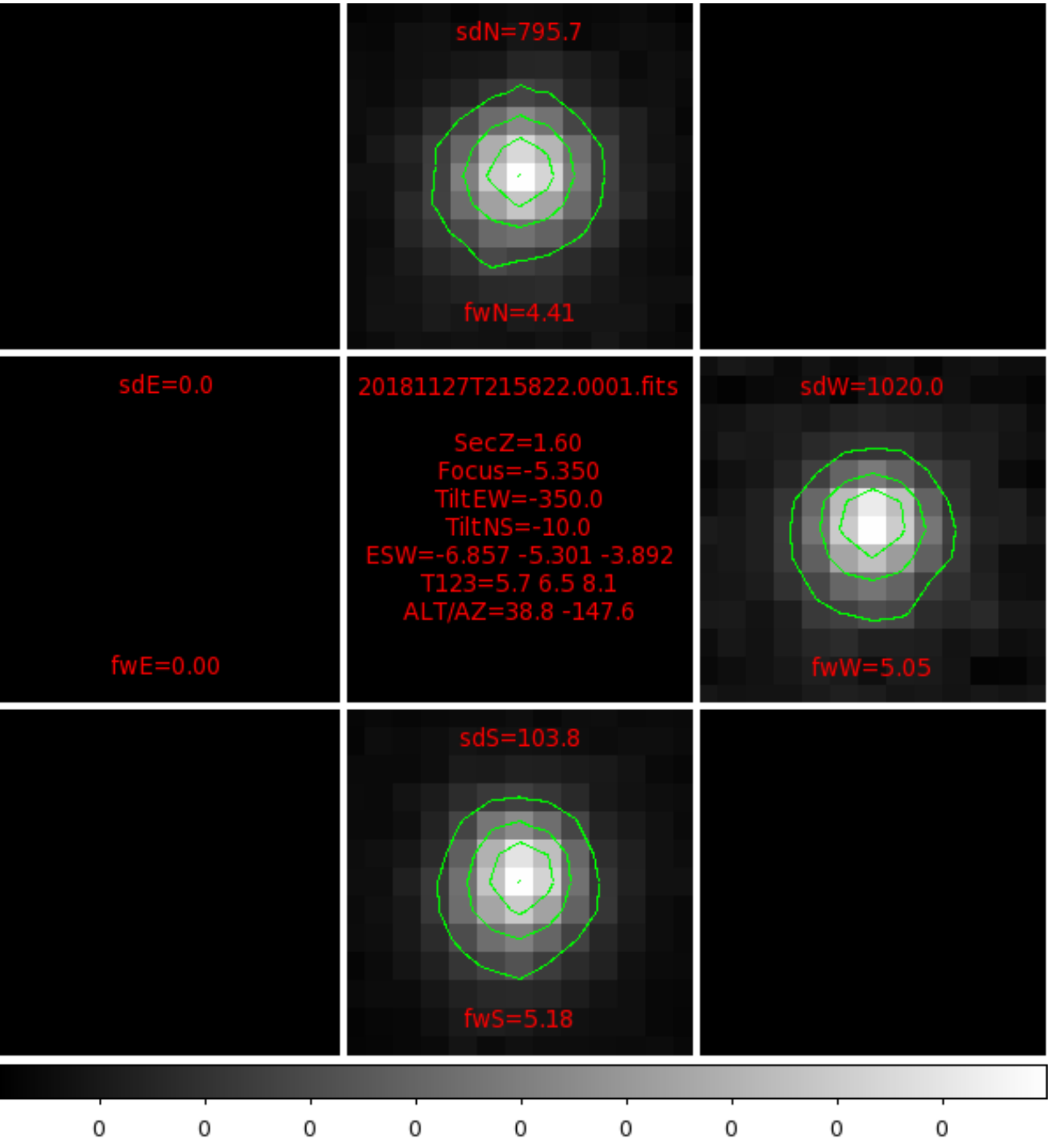
sdN=795.7
fwN=4.41
sdE=0.0
fwE=0.00
20181127T215822.0001.fits
SecZ=1.60
Focus=-5.350
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.857 -5.301 -3.892
T123=5.7 6.5 8.1
ALT/AZ=38.8 -147.6
sdW=1020.0
fwW=5.05
sdS=103.8
fwS=5.18
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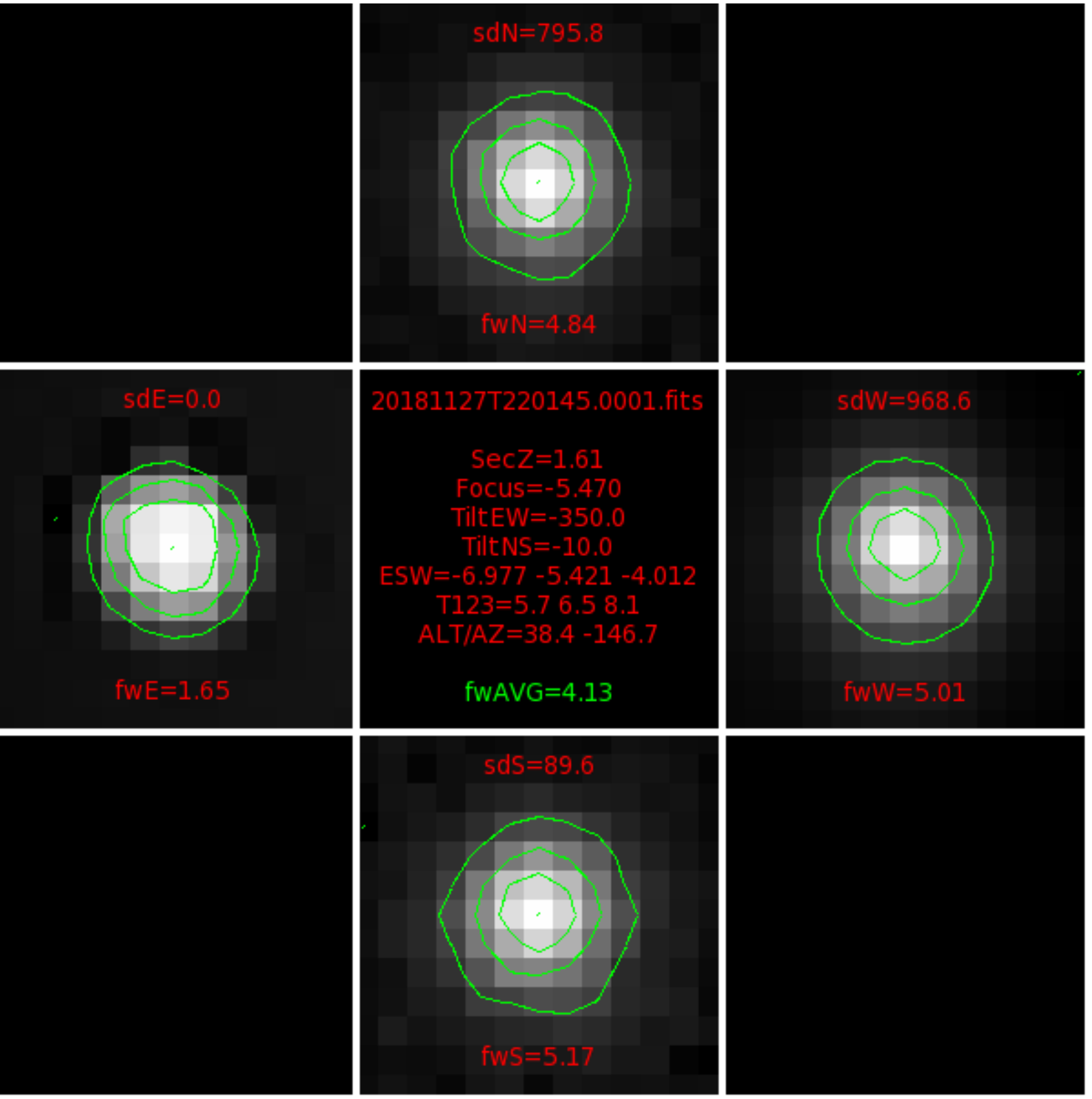
sdN=795.8
fwN=4.84
sdE=0.0
fwE=1.65
20181127T220145.0001.fits
SecZ=1.61
Focus=-5.470
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.977 -5.421 -4.012
T123=5.7 6.5 8.1
ALT/AZ=38.4 -146.7
fwAVG=4.13
sdW=968.6
fwW=5.01
sdS=89.6
fwS=5.17
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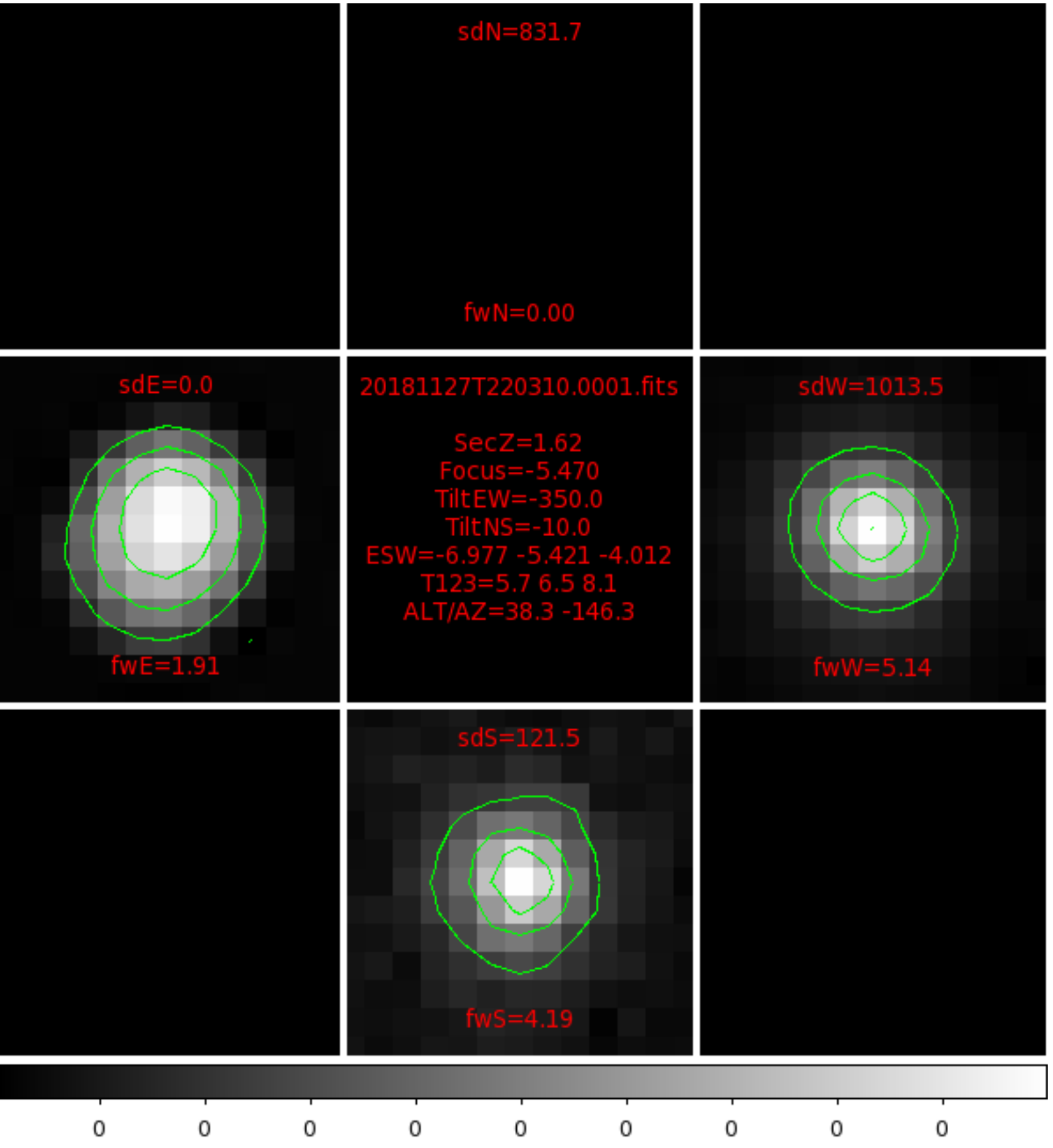
sdN=831.7
fwN=0.00
sdE=0.0
fwE=1.91
20181127T220310.0001.fits
SecZ=1.62
Focus=-5.470
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.977 -5.421 -4.012
T123=5.7 6.5 8.1
ALT/AZ=38.3 -146.3
sdW=1013.5
fwW=5.14
sdS=121.5
fwS=4.19
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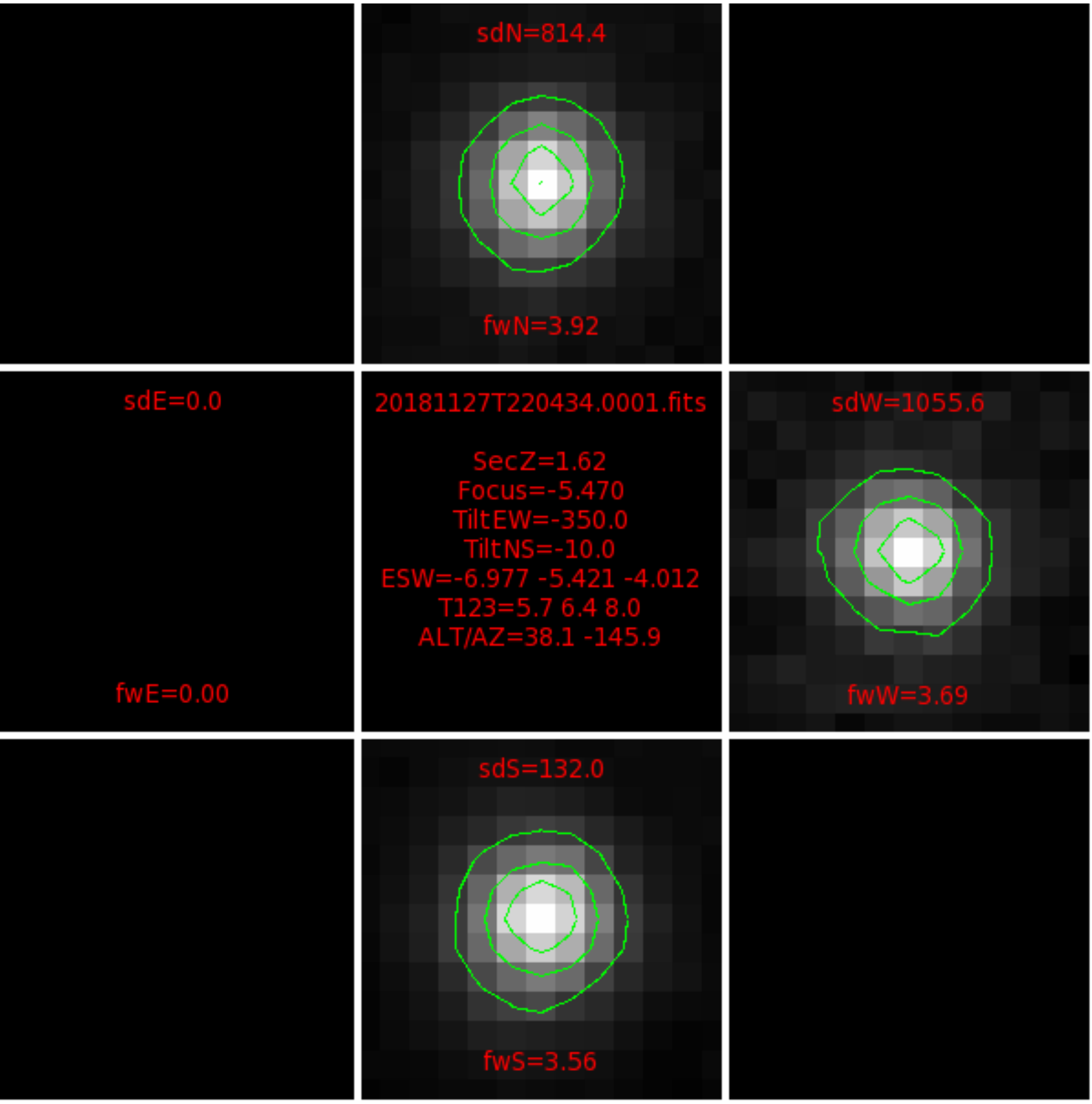
sdN=814.4
fwN=3.92
sdE=0.0
fwE=0.00
20181127T220434.0001.fits
SecZ=1.62
Focus=-5.470
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.977 -5.421 -4.012
T123=5.7 6.4 8.0
ALT/AZ=38.1 -145.9
sdW=1055.6
fwW=3.69
sdS=132.0
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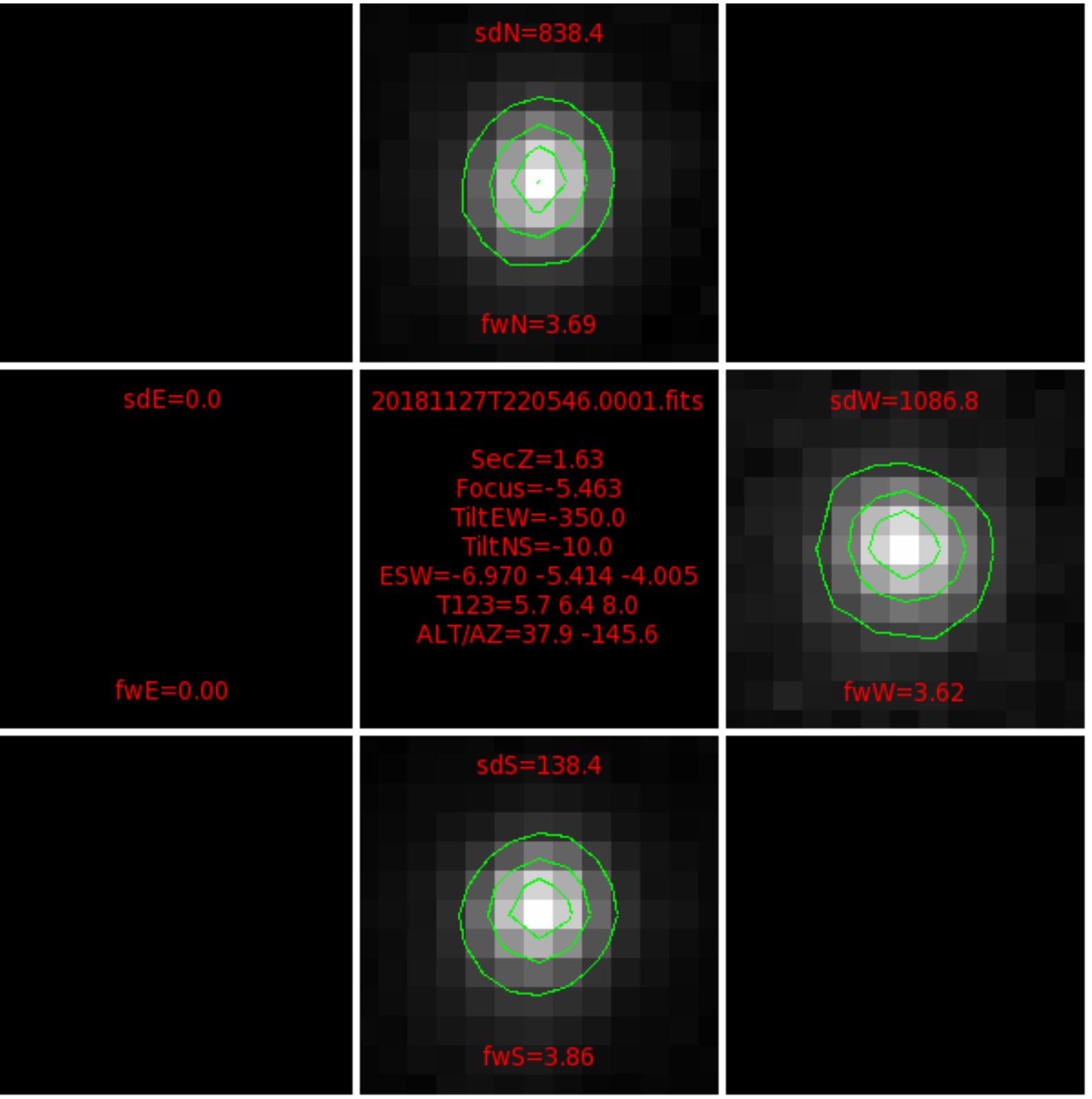
sdN=838.4
fwN=3.69
sdE=0.0
fwE=0.00
20181127T220546.0001.fits
SecZ=1.63
Focus=-5.463
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.970 -5.414 -4.005
T123=5.7 6.4 8.0
ALT/AZ=37.9 -145.6
sdW=1086.8
fwW=3.62
sdS=138.4
fwS=3.86
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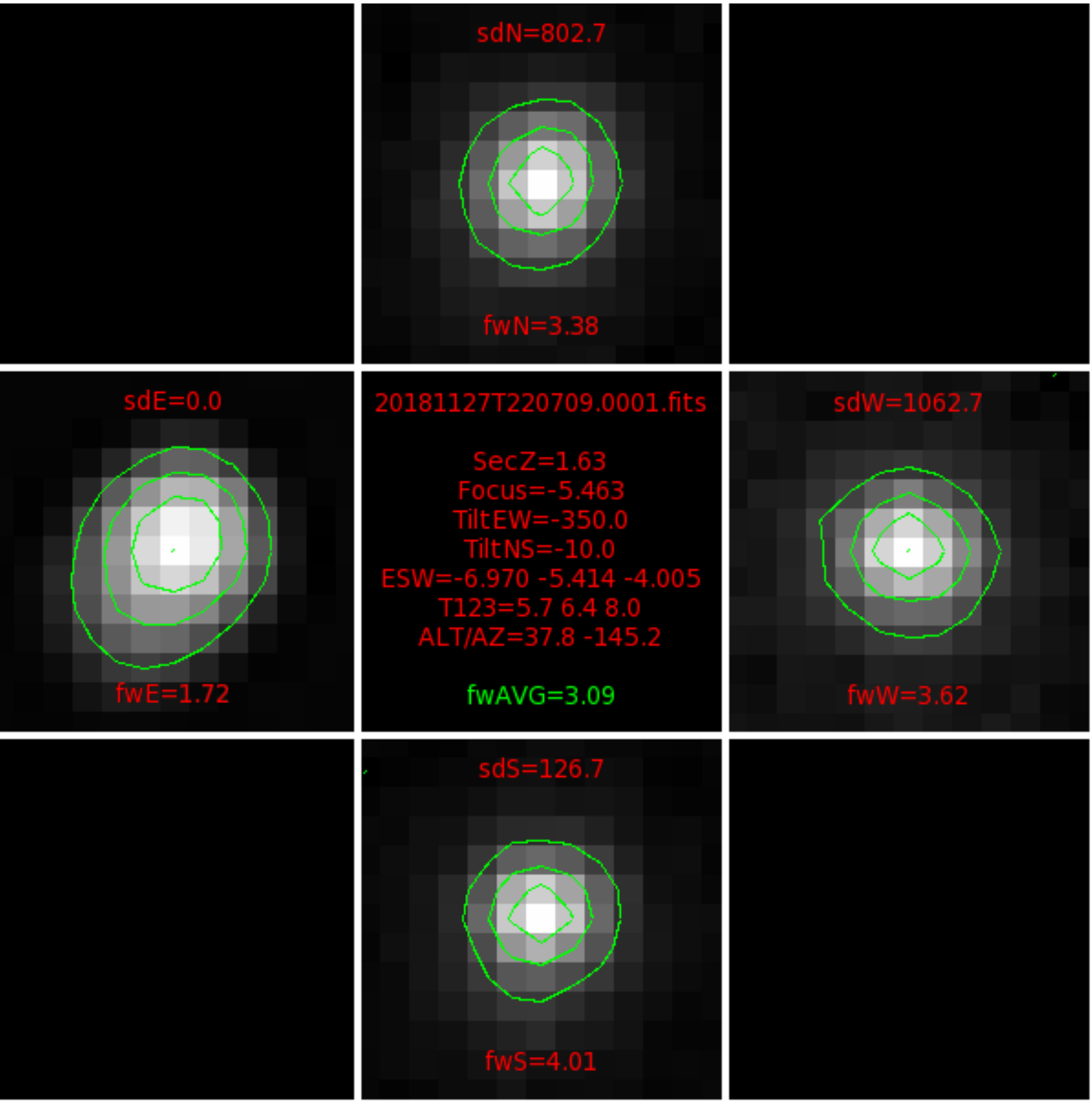
sdN=802.7
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sdE=0.0
fwE=1.72
20181127T220709.0001.fits
SecZ=1.63
Focus=-5.463
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.970 -5.414 -4.005
T123=5.7 6.4 8.0
ALT/AZ=37.8 -145.2
fwAVG=3.09
sdW=1062.7
fwW=3.62
sdS=126.7
fwS=4.01
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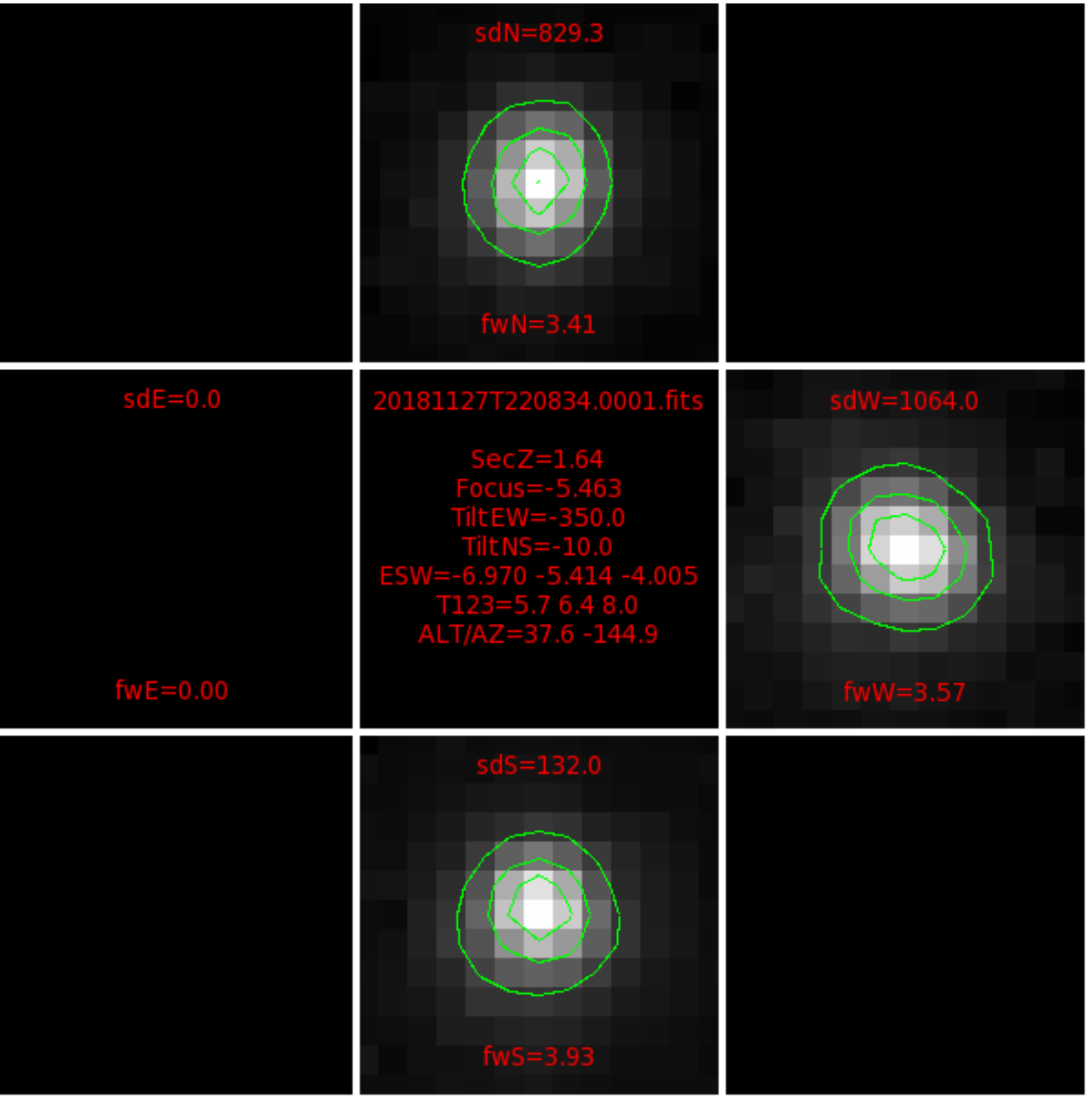
sdN=829.3
fwN=3.41
sdE=0.0
fwE=0.00
20181127T220834.0001.fits
SecZ=1.64
Focus=-5.463
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.970 -5.414 -4.005
T123=5.7 6.4 8.0
ALT/AZ=37.6 -144.9
sdW=1064.0
fwW=3.57
sdS=132.0
fwS=3.93
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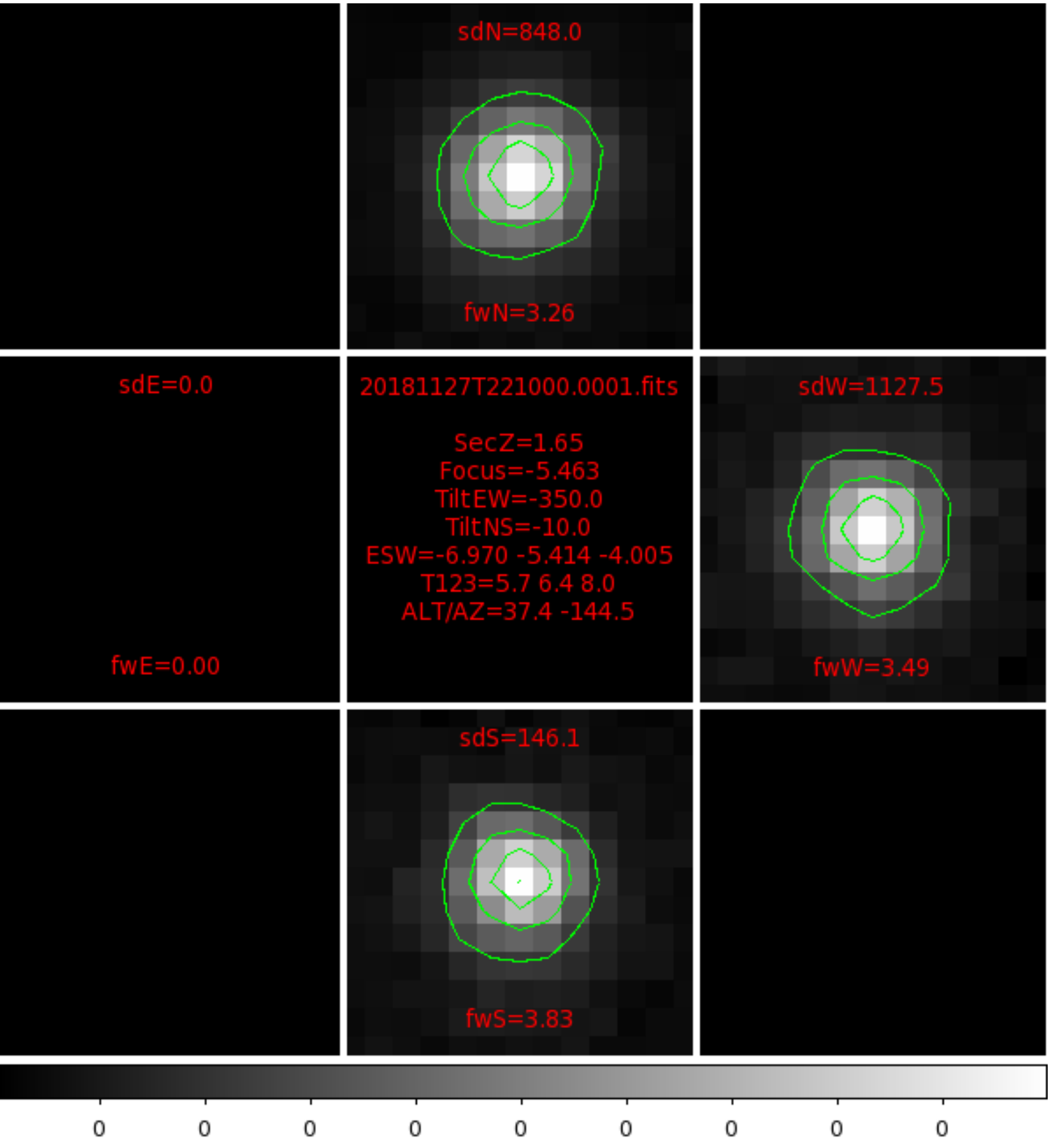
sdN=848.0
fwN=3.26
sdE=0.0
fwE=0.00
20181127T221000.0001.fits
SecZ=1.65
Focus=-5.463
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.970 -5.414 -4.005
T123=5.7 6.4 8.0
ALT/AZ=37.4 -144.5
sdW=1127.5
fwW=3.49
sdS=146.1
fwS=3.83
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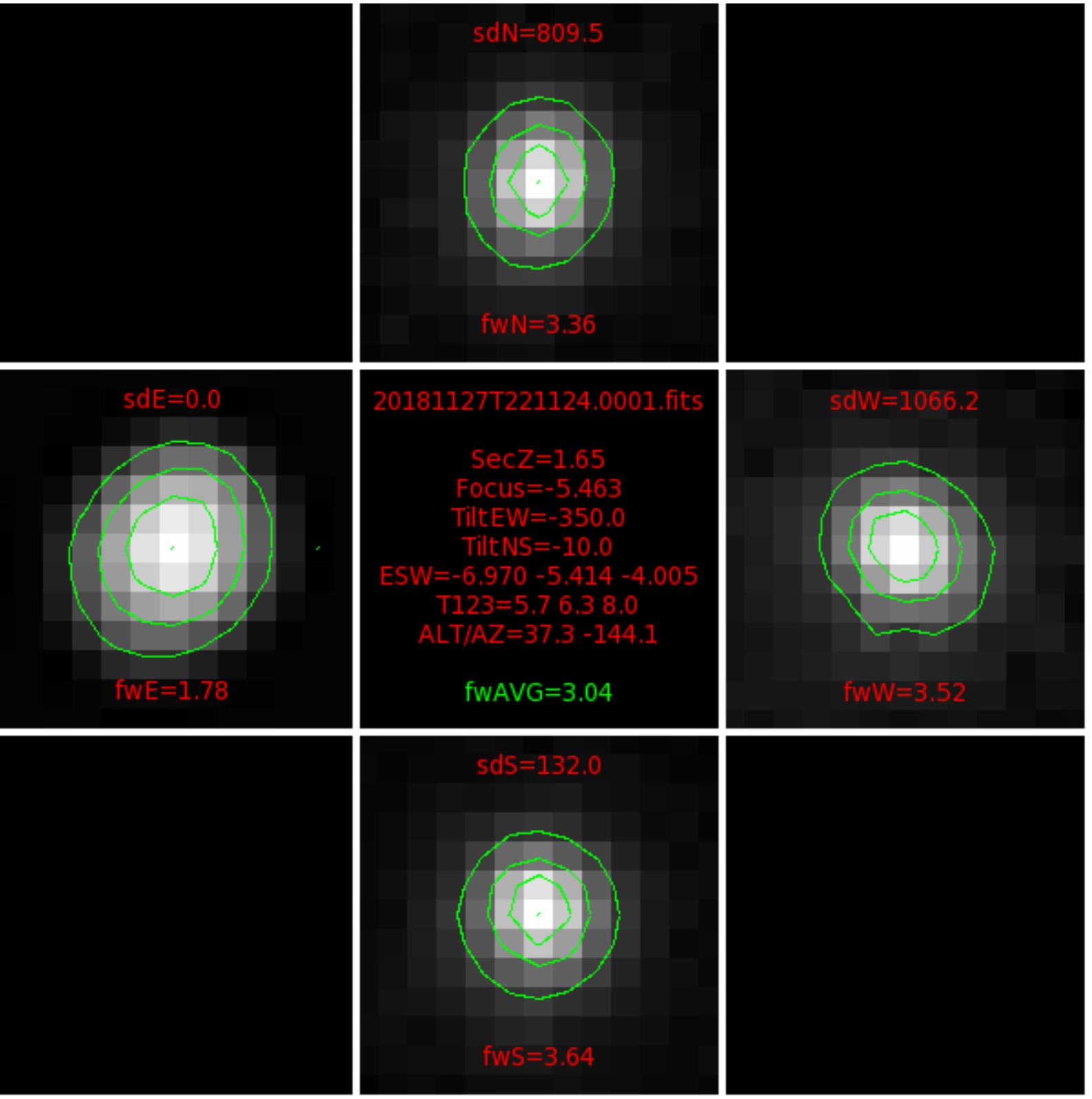
sdN=809.5
fwN=3.36
sdE=0.0
fwE=1.78
20181127T221124.0001.fits
SecZ=1.65
Focus=-5.463
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.970 -5.414 -4.005
T123=5.7 6.3 8.0
ALT/AZ=37.3 -144.1
fwAVG=3.04
sdW=1066.2
fwW=3.52
sdS=132.0
fwS=3.64
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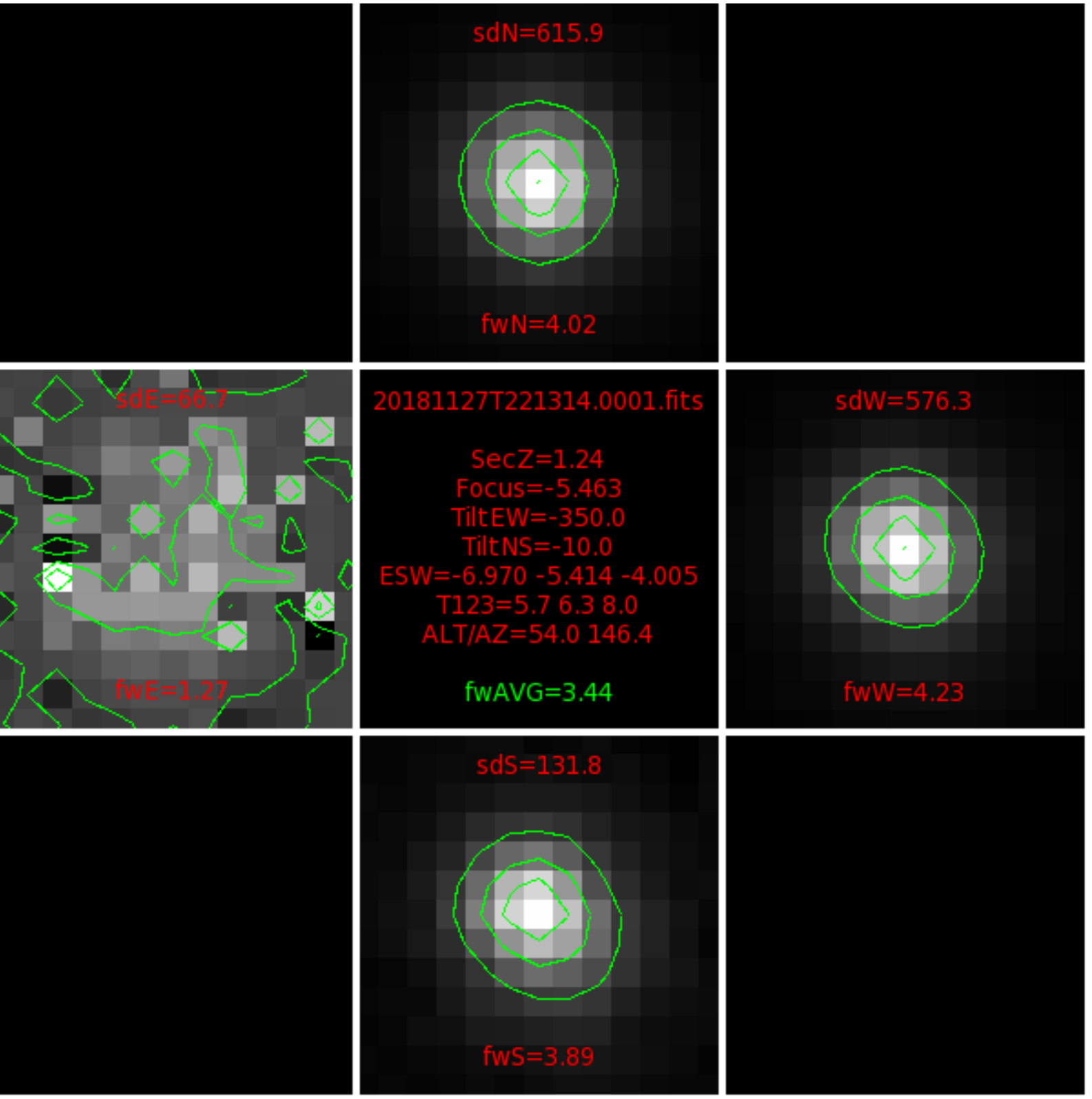
sdN=615.9
fwN=4.02
sdE=66.7
fwE=1.27
20181127T221314.0001.fits
SecZ=1.24
Focus=-5.463
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.970 -5.414 -4.005
T123=5.7 6.3 8.0
ALT/AZ=54.0 146.4
fwAVG=3.44
sdW=576.3
fwW=4.23
sdS=131.8
fwS=3.89
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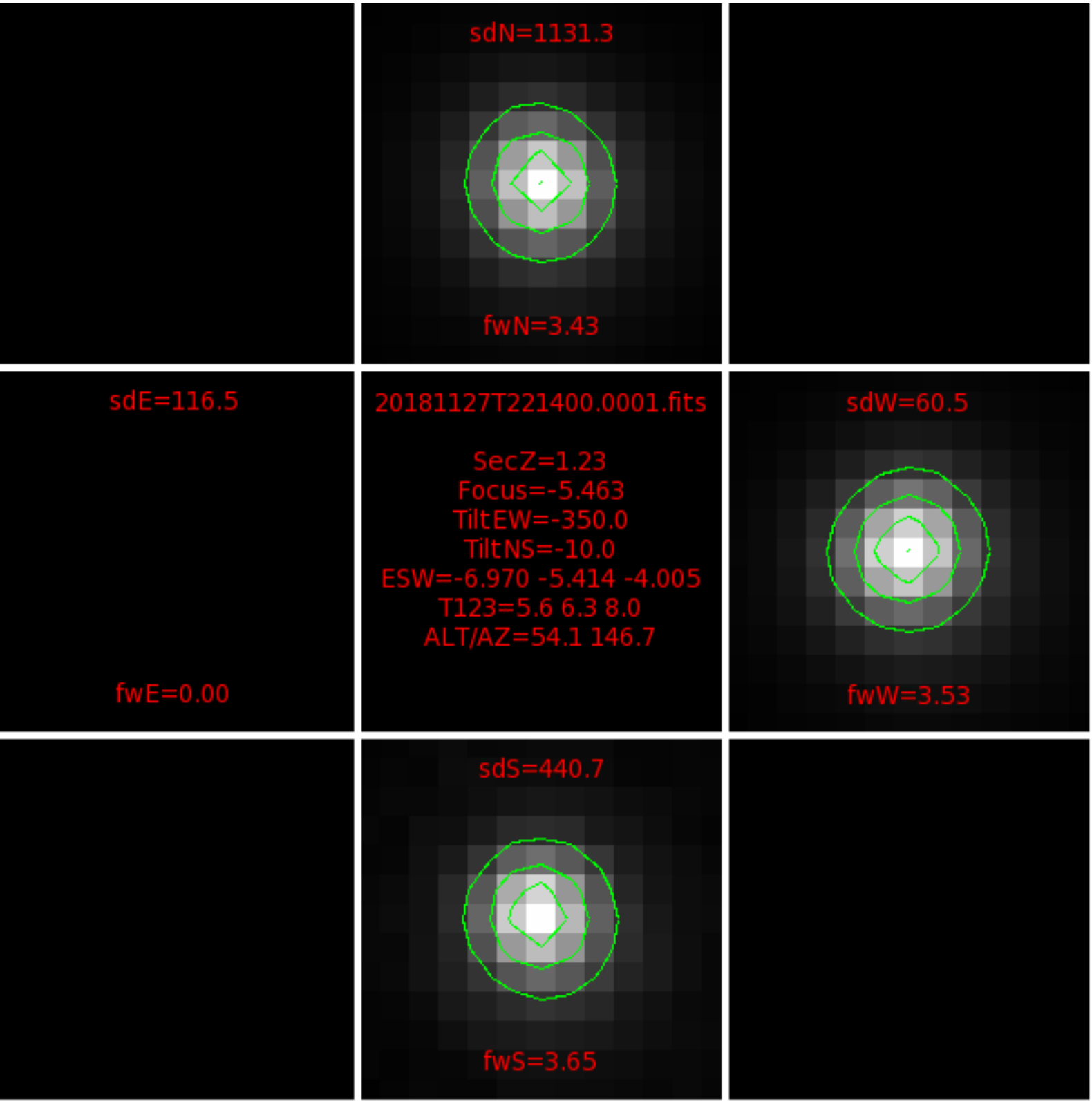
sdN=1131.3
fwN=3.43
sdE=116.5
fwE=0.00
20181127T221400.0001.fits
SecZ=1.23
Focus=-5.463
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.970 -5.414 -4.005
T123=5.6 6.3 8.0
ALT/AZ=54.1 146.7
sdW=60.5
fwW=3.53
sdS=440.7
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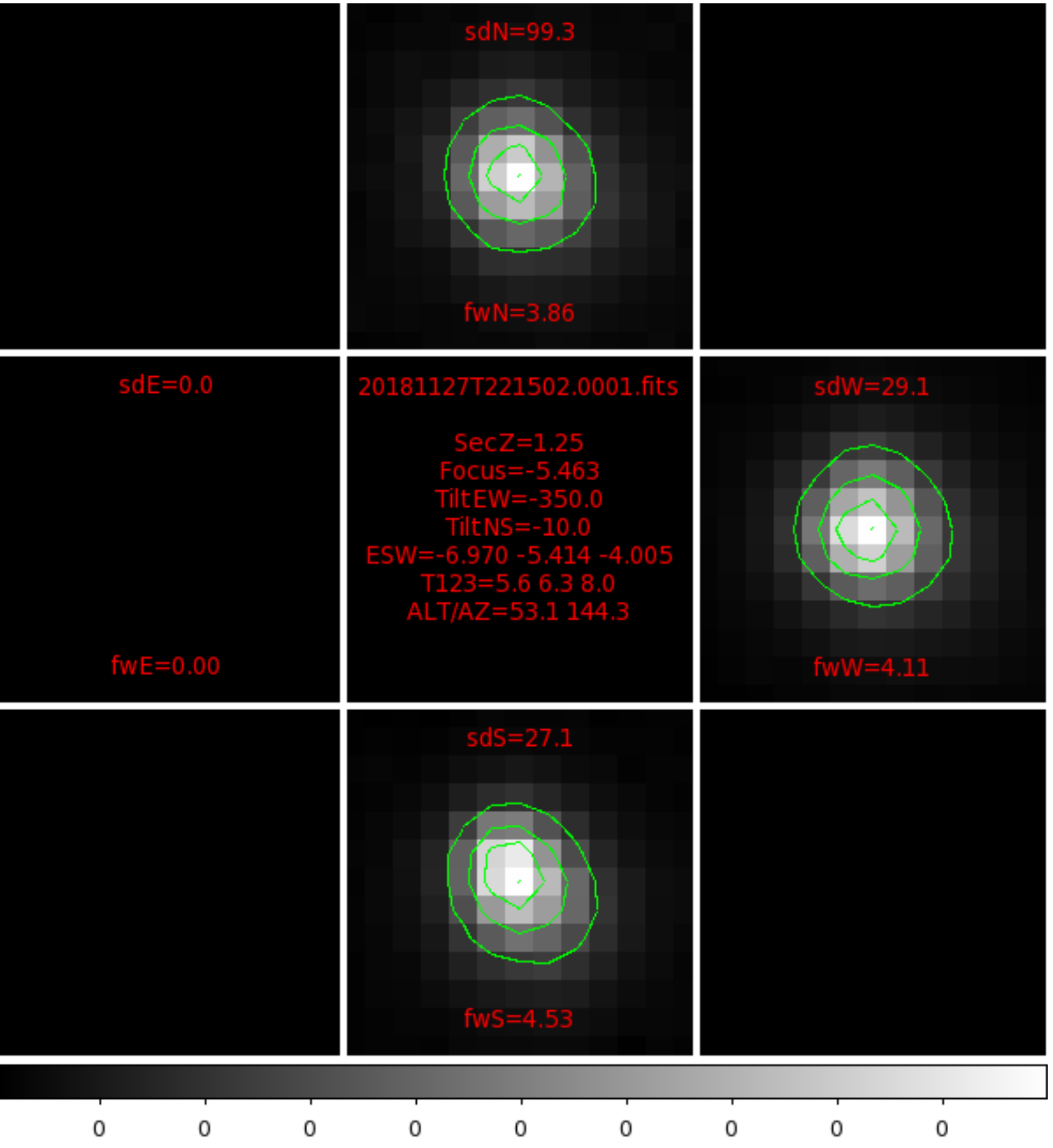
sdN=99.3
fwN=3.86
sdE=0.0
fwE=0.00
20181127T221502.0001.fits
SecZ=1.25
Focus=-5.463
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.970 -5.414 -4.005
T123=5.6 6.3 8.0
ALT/AZ=53.1 144.3
sdW=29.1
fwW=4.11
sdS=27.1
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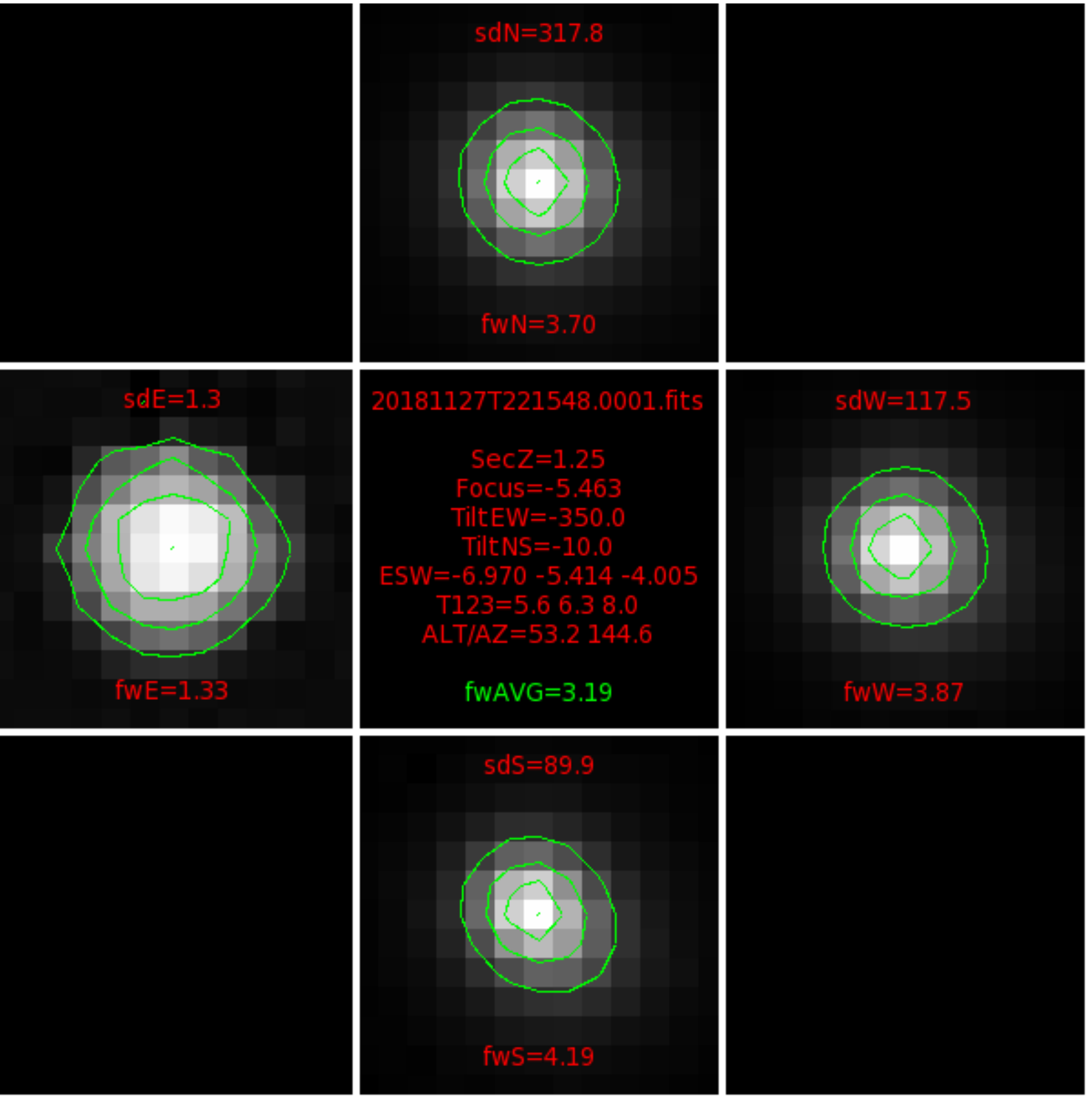
sdN=317.8
fwN=3.70
sdE=1.3
fwE=1.33
20181127T221548.0001.fits
SecZ=1.25
Focus=-5.463
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.970 -5.414 -4.005
T123=5.6 6.3 8.0
ALT/AZ=53.2 144.6
fwAVG=3.19
sdW=117.5
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sdS=89.9
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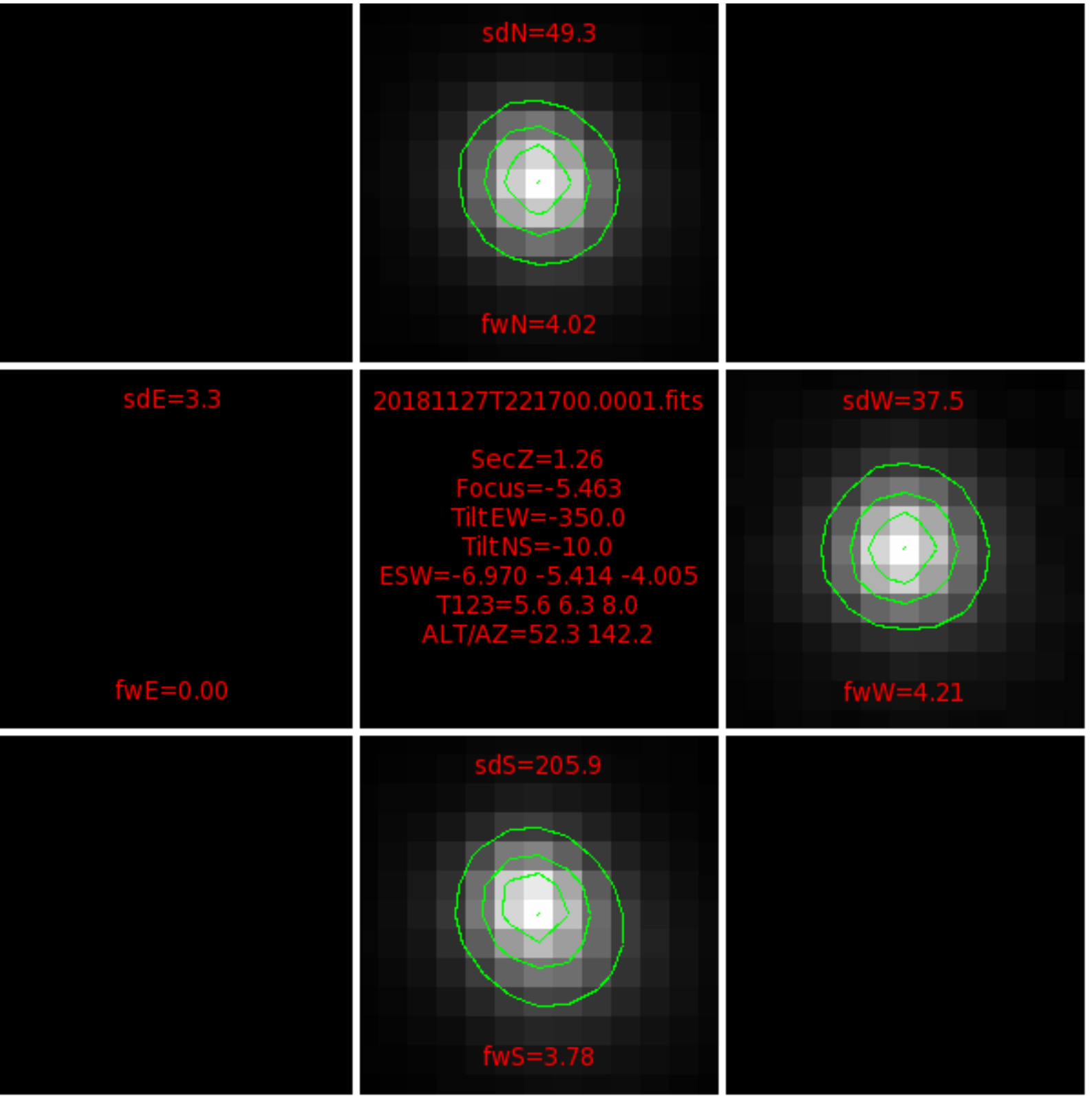
sdN=49.3
fwN=4.02
sdE=3.3
fwE=0.00
20181127T221700.0001.fits
SecZ=1.26
Focus=-5.463
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.970 -5.414 -4.005
T123=5.6 6.3 8.0
ALT/AZ=52.3 142.2
sdW=37.5
fwW=4.21
sdS=205.9
fwS=3.78
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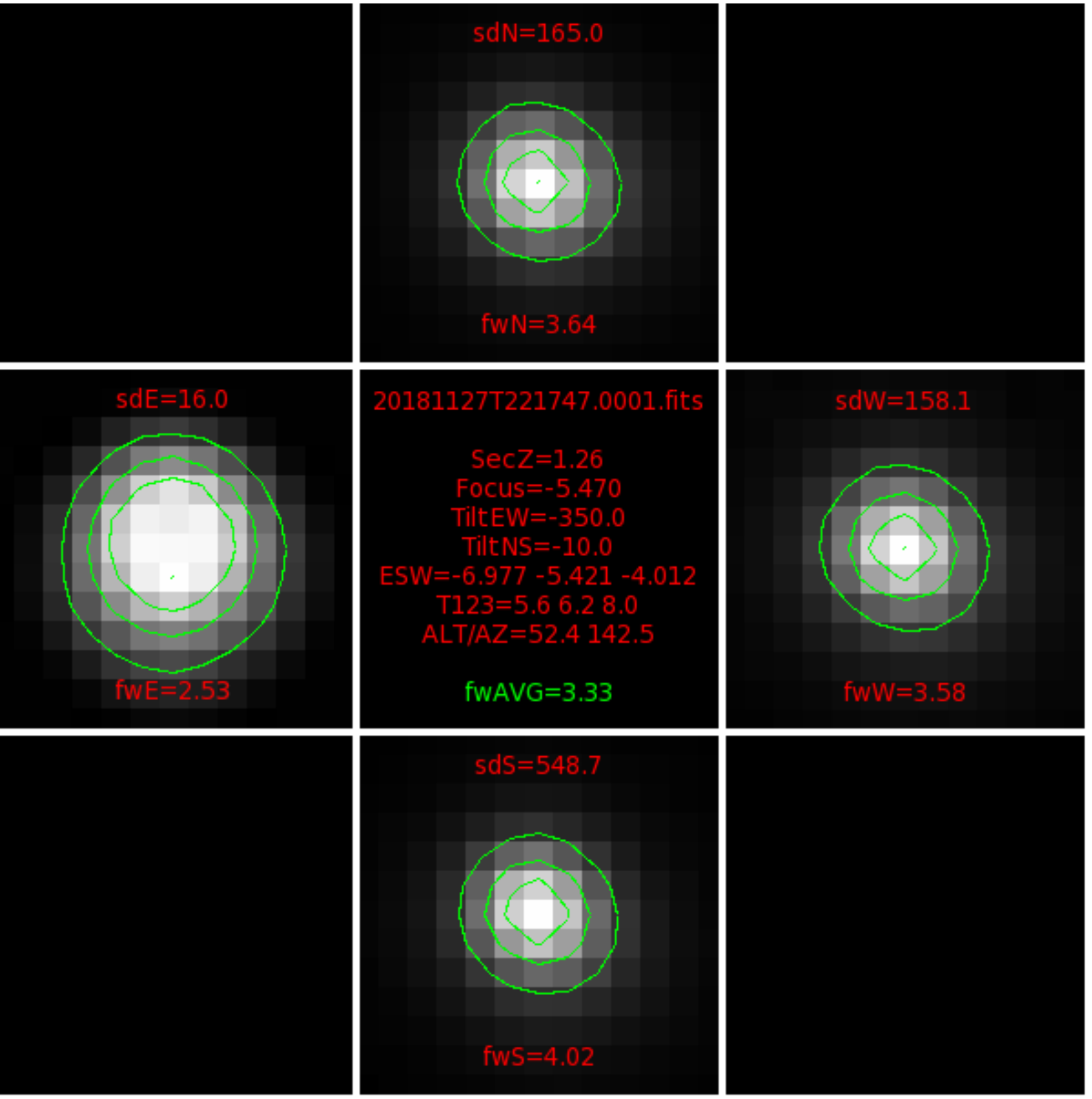
sdN=165.0
fwN=3.64
sdE=16.0
fwE=2.53
20181127T221747.0001.fits
SecZ=1.26
Focus=-5.470
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.977 -5.421 -4.012
T123=5.6 6.2 8.0
ALT/AZ=52.4 142.5
fwAVG=3.33
sdW=158.1
fwW=3.58
sdS=548.7
fwS=4.02
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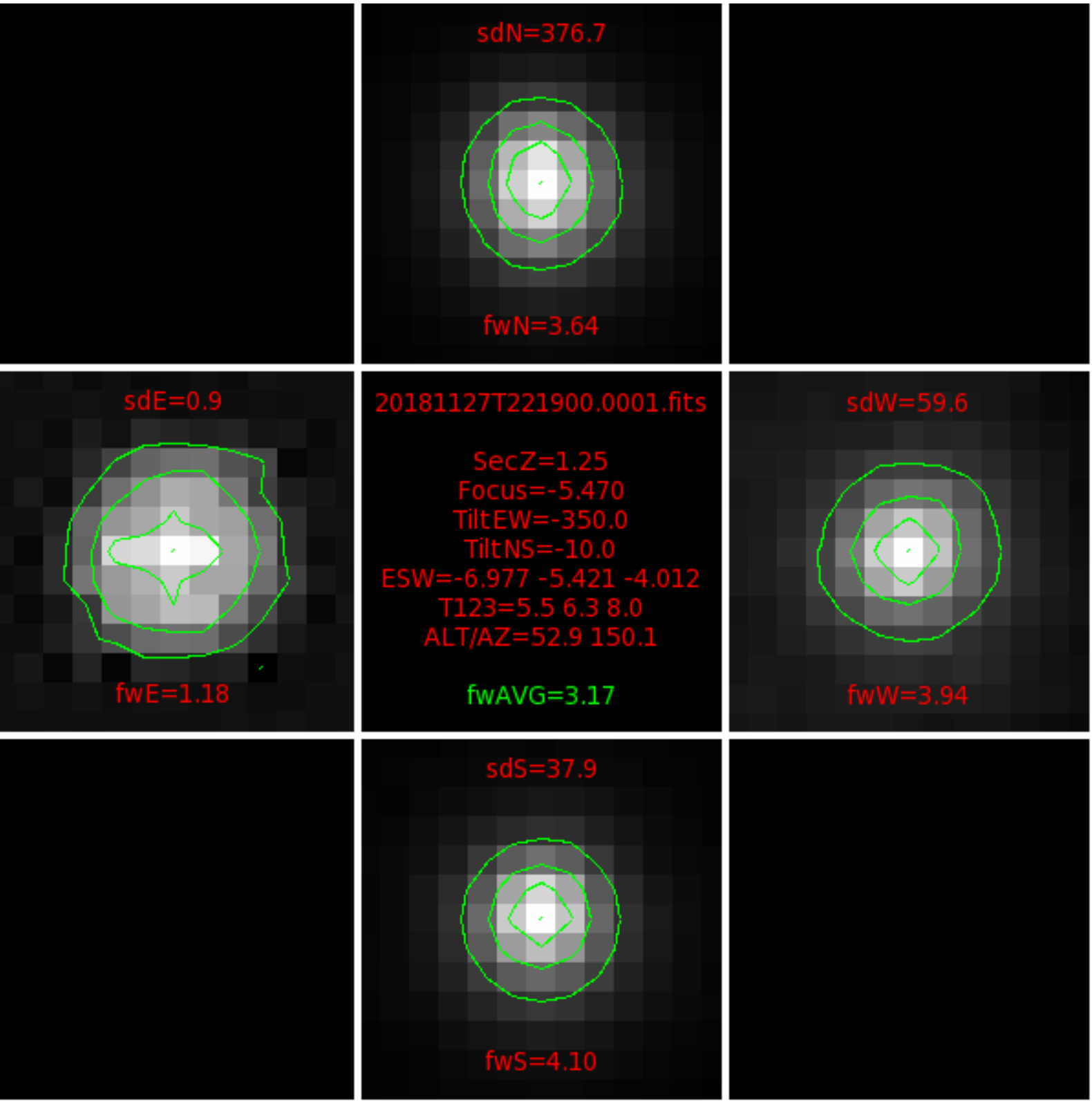
sdN=376.7
fwN=3.64
sdE=0.9
fwE=1.18
20181127T221900.0001.fits
SecZ=1.25
Focus=-5.470
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.977 -5.421 -4.012
T123=5.5 6.3 8.0
ALT/AZ=52.9 150.1
fwAVG=3.17
sdW=59.6
fwW=3.94
sdS=37.9
fwS=4.10
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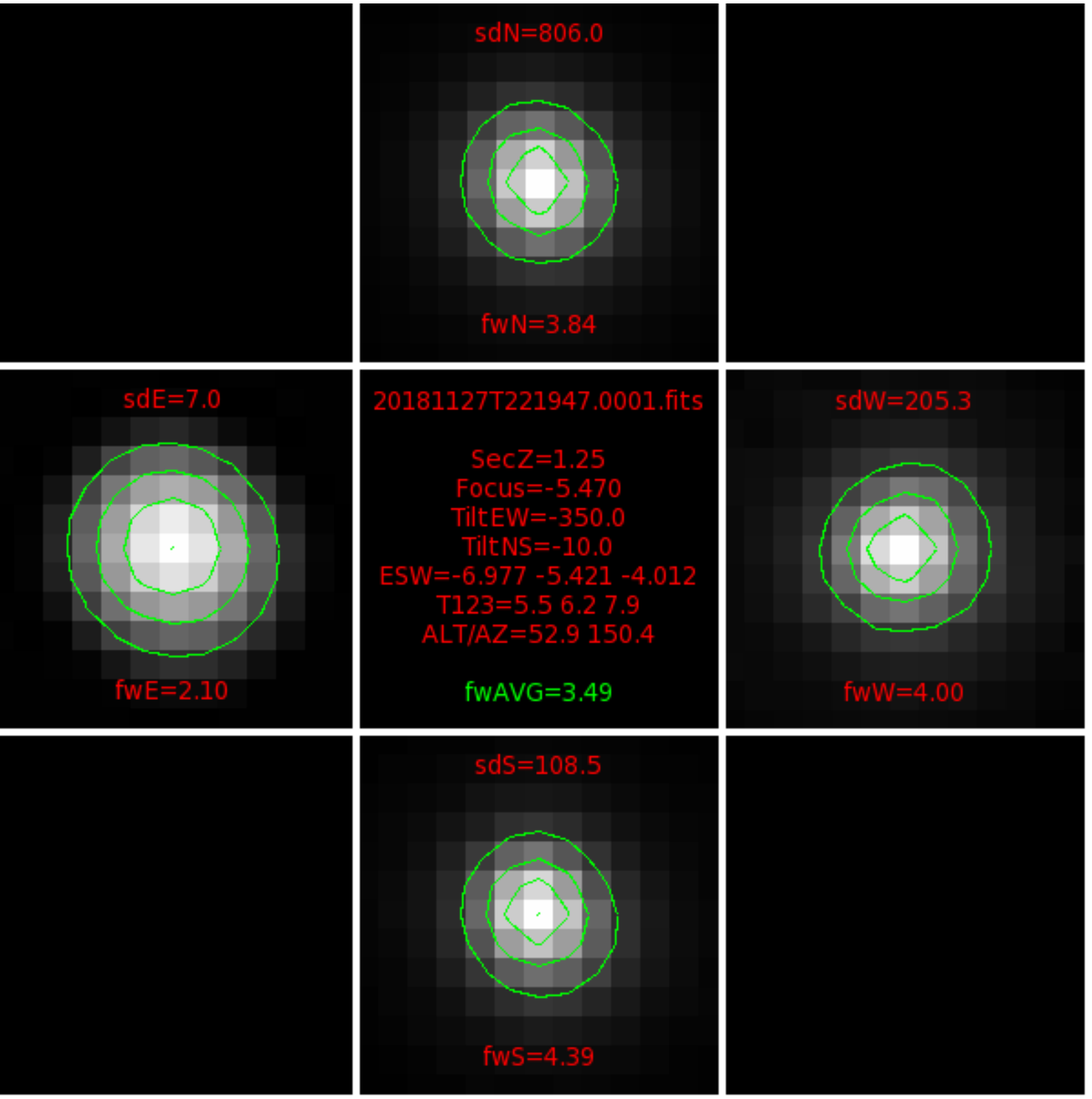
sdN=806.0
fwN=3.84
sdE=7.0
fwE=2.10
20181127T221947.0001.fits
SecZ=1.25
Focus=-5.470
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.977 -5.421 -4.012
T123=5.5 6.2 7.9
ALT/AZ=52.9 150.4
fwAVG=3.49
sdW=205.3
fwW=4.00
sdS=108.5
fwS=4.39
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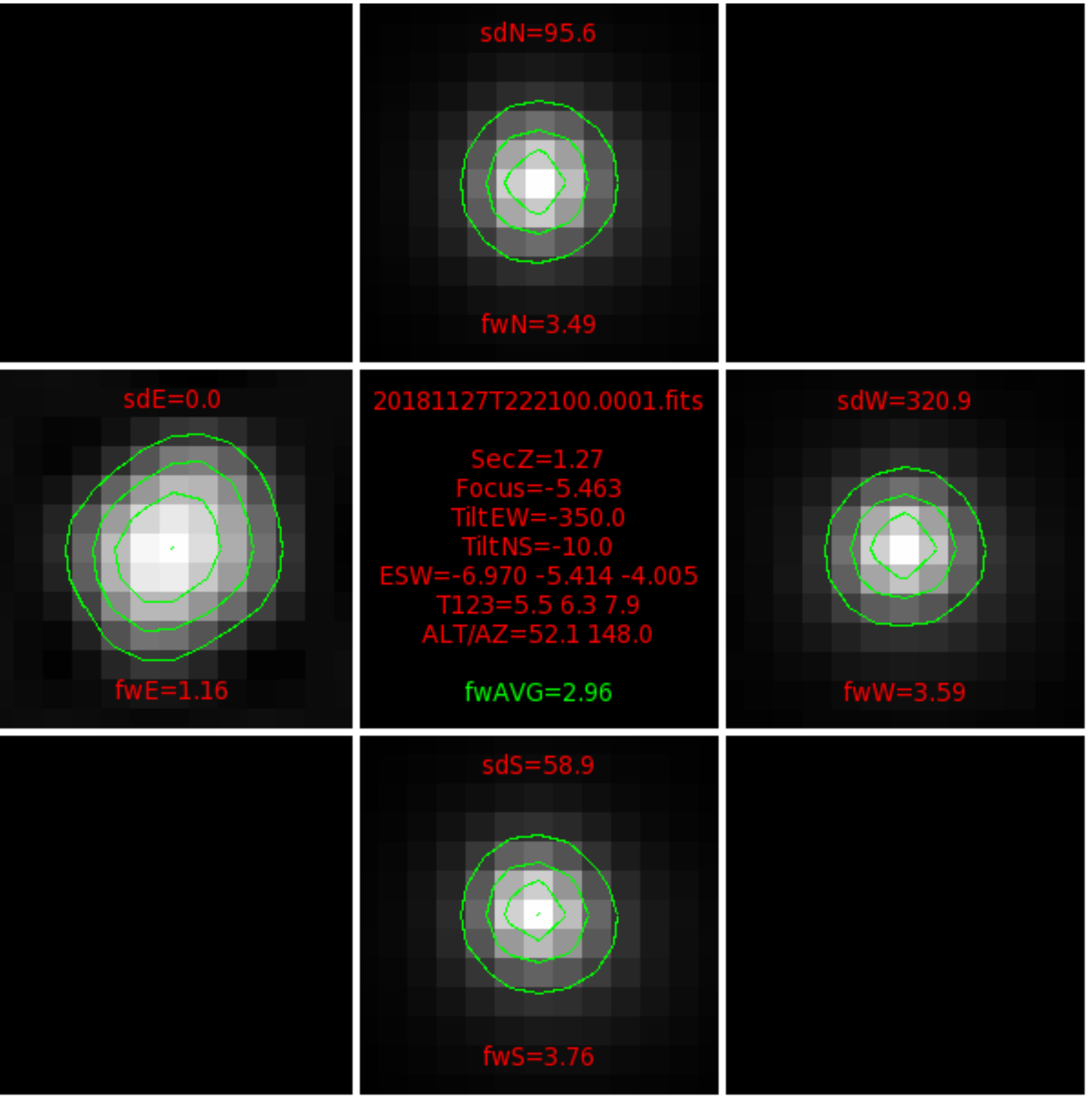
sdN=95.6
fwN=3.49
sdE=0.0
fwE=1.16
20181127T222100.0001.fits
SecZ=1.27
Focus=-5.463
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.970 -5.414 -4.005
T123=5.5 6.3 7.9
ALT/AZ=52.1 148.0
fwAVG=2.96
sdW=320.9
fwW=3.59
sdS=58.9
fwS=3.76
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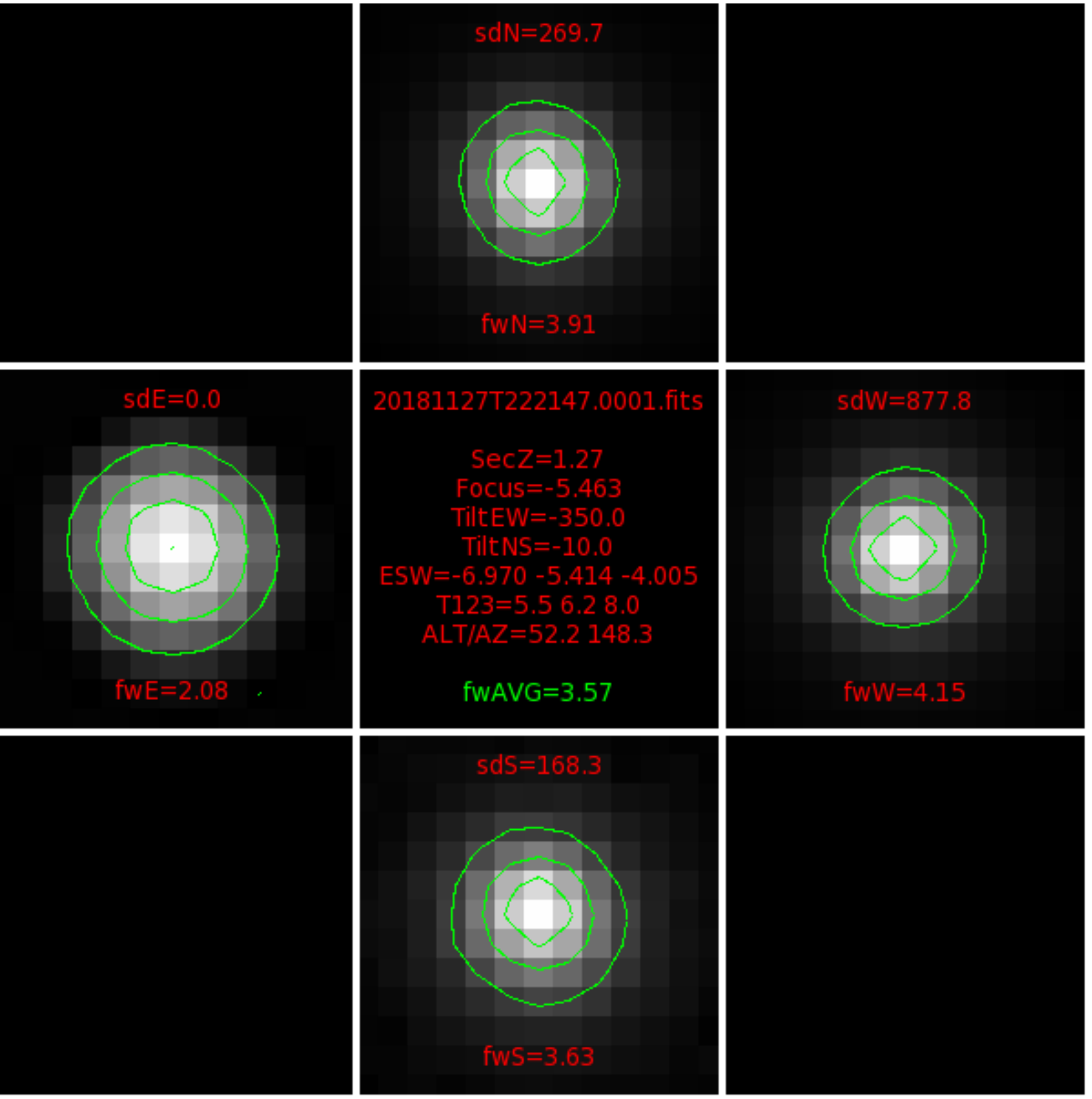
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sdE=0.0
fwE=2.08
20181127T222147.0001.fits
SecZ=1.27
Focus=-5.463
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.970 -5.414 -4.005
T123=5.5 6.2 8.0
ALT/AZ=52.2 148.3
fwAVG=3.57
sdW=877.8
fwW=4.15
sdS=168.3
fwS=3.63
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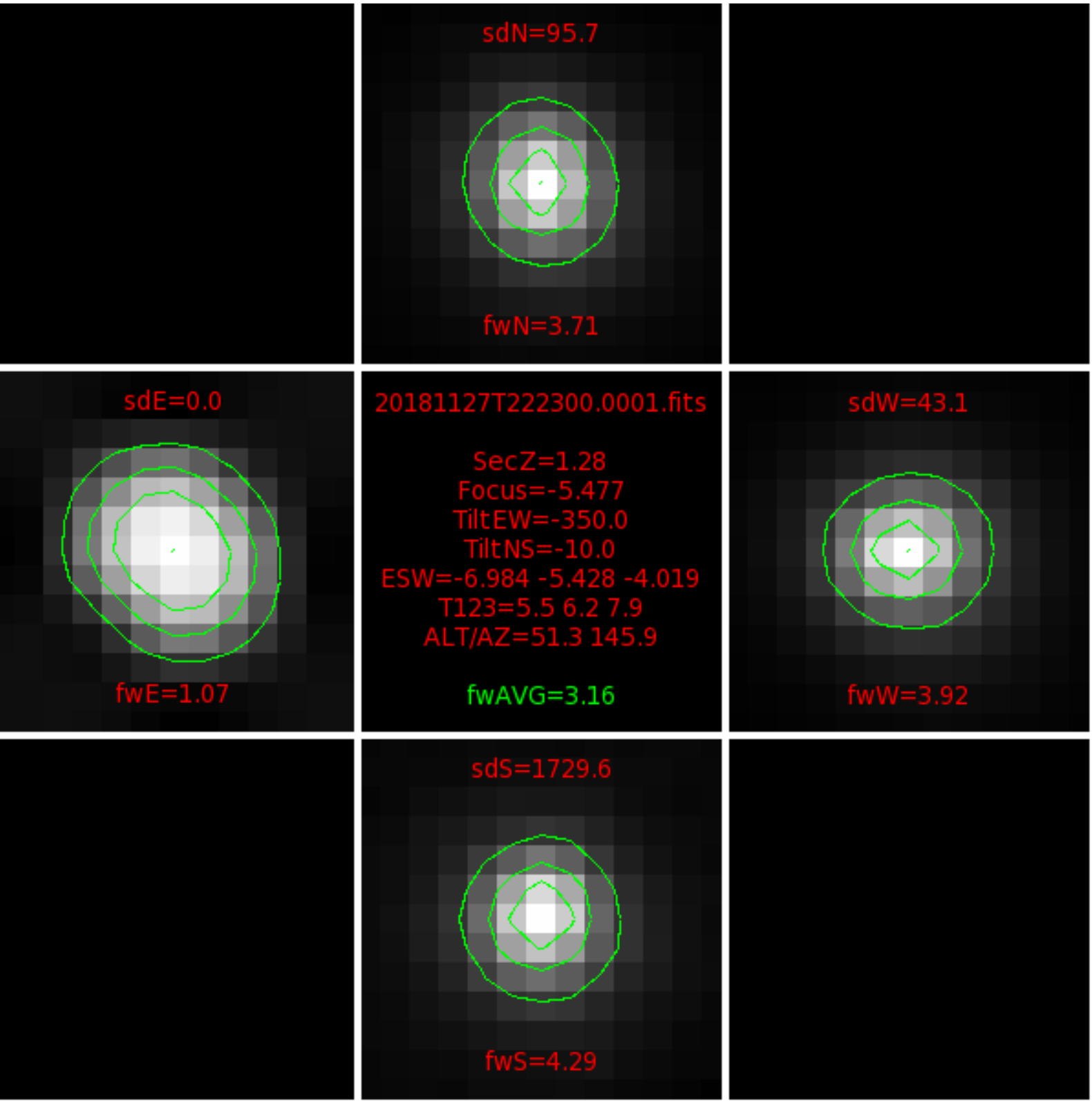
sdN=95.7
fwN=3.71
sdE=0.0
fwE=1.07
20181127T222300.0001.fits
SecZ=1.28
Focus=-5.477
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.984 -5.428 -4.019
T123=5.5 6.2 7.9
ALT/AZ=51.3 145.9
fwAVG=3.16
sdW=43.1
fwW=3.92
sdS=1729.6
fwS=4.29
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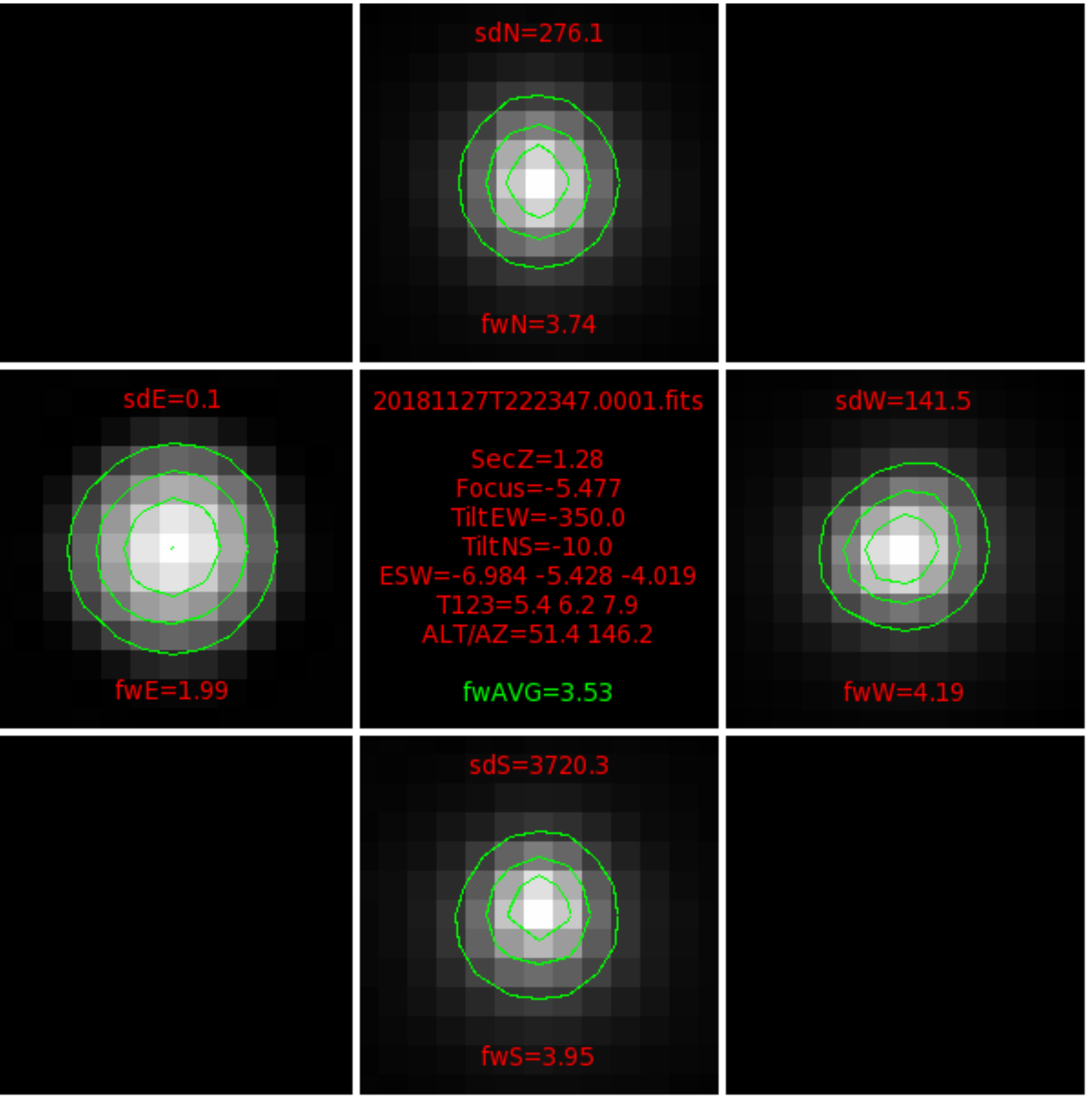
sdN=276.1
fwN=3.74
sdE=0.1
fwE=1.99
20181127T222347.0001.fits
SecZ=1.28
Focus=-5.477
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.984 -5.428 -4.019
T123=5.4 6.2 7.9
ALT/AZ=51.4 146.2
fwAVG=3.53
sdW=141.5
fwW=4.19
sdS=3720.3
fwS=3.95
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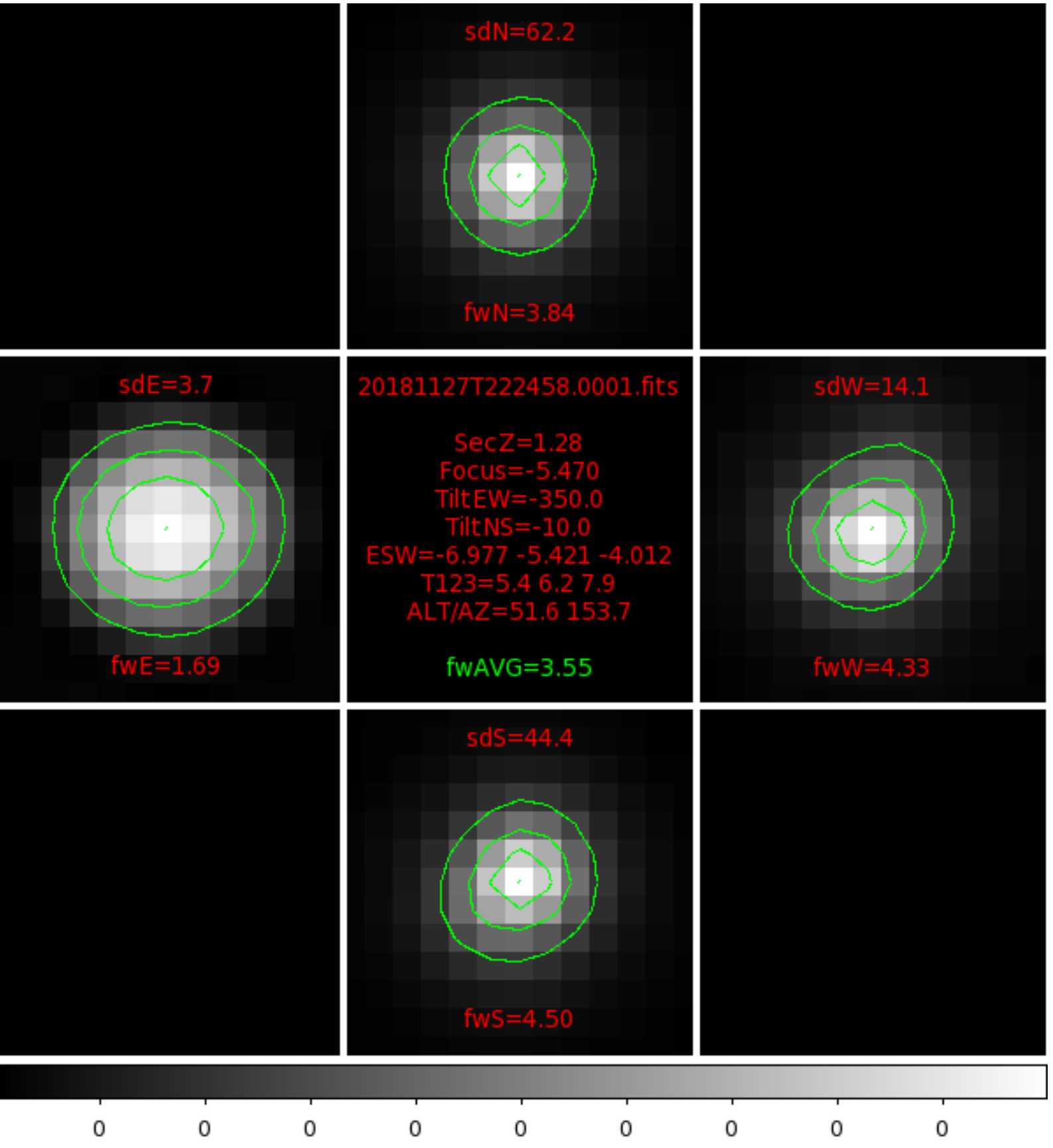
sdN=62.2
fwN=3.84
sdE=3.7
fwE=1.69
20181127T222458.0001.fits
SecZ=1.28
Focus=-5.470
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.977 -5.421 -4.012
T123=5.4 6.2 7.9
ALT/AZ=51.6 153.7
fwAVG=3.55
sdW=14.1
fwW=4.33
sdS=44.4
fwS=4.50
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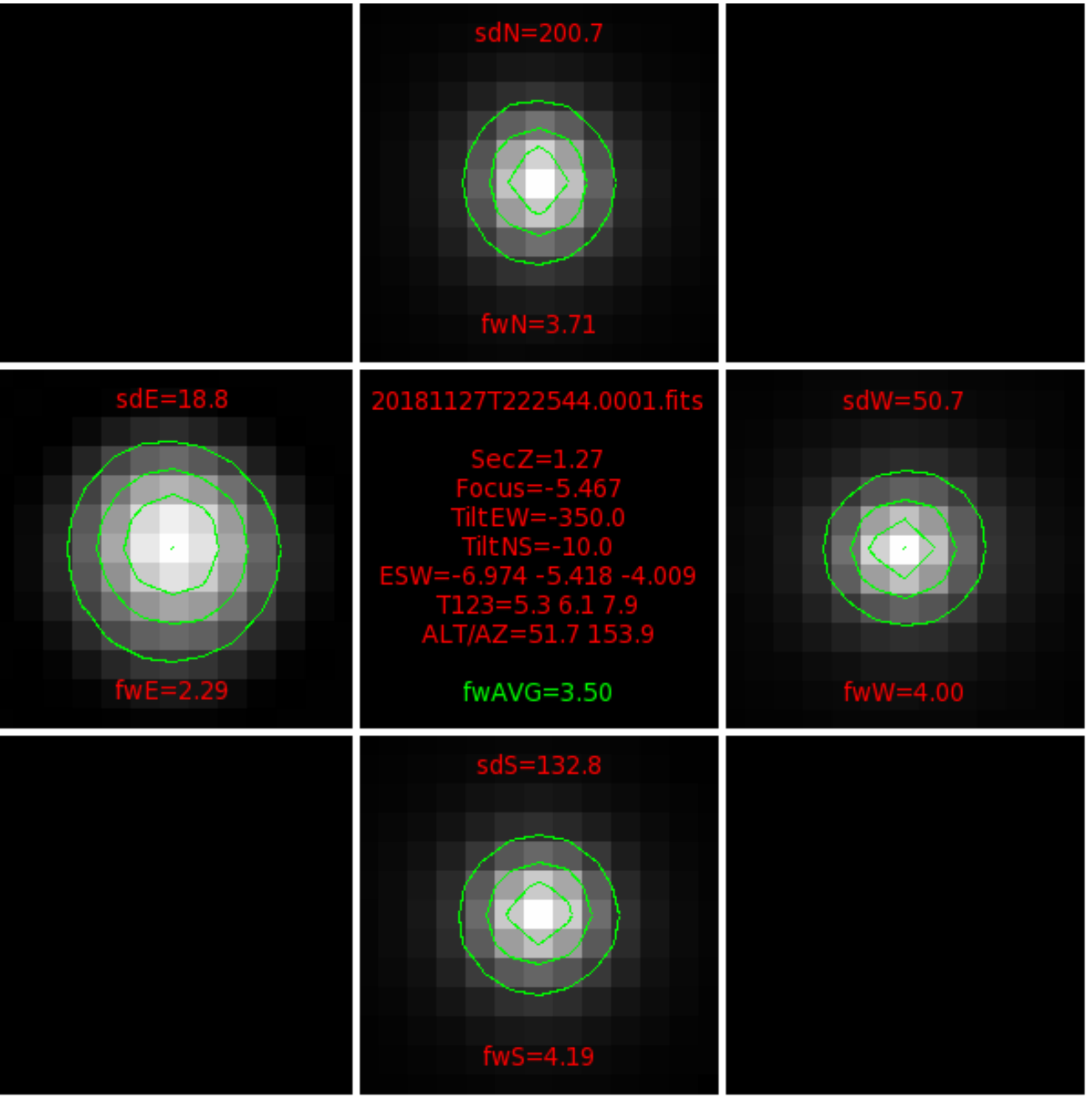
sdN=200.7
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sdE=18.8
fwE=2.29
20181127T222544.0001.fits
SecZ=1.27
Focus=-5.467
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.974 -5.418 -4.009
T123=5.3 6.1 7.9
ALT/AZ=51.7 153.9
fwAVG=3.50
sdW=50.7
fwW=4.00
sdS=132.8
fwS=4.19
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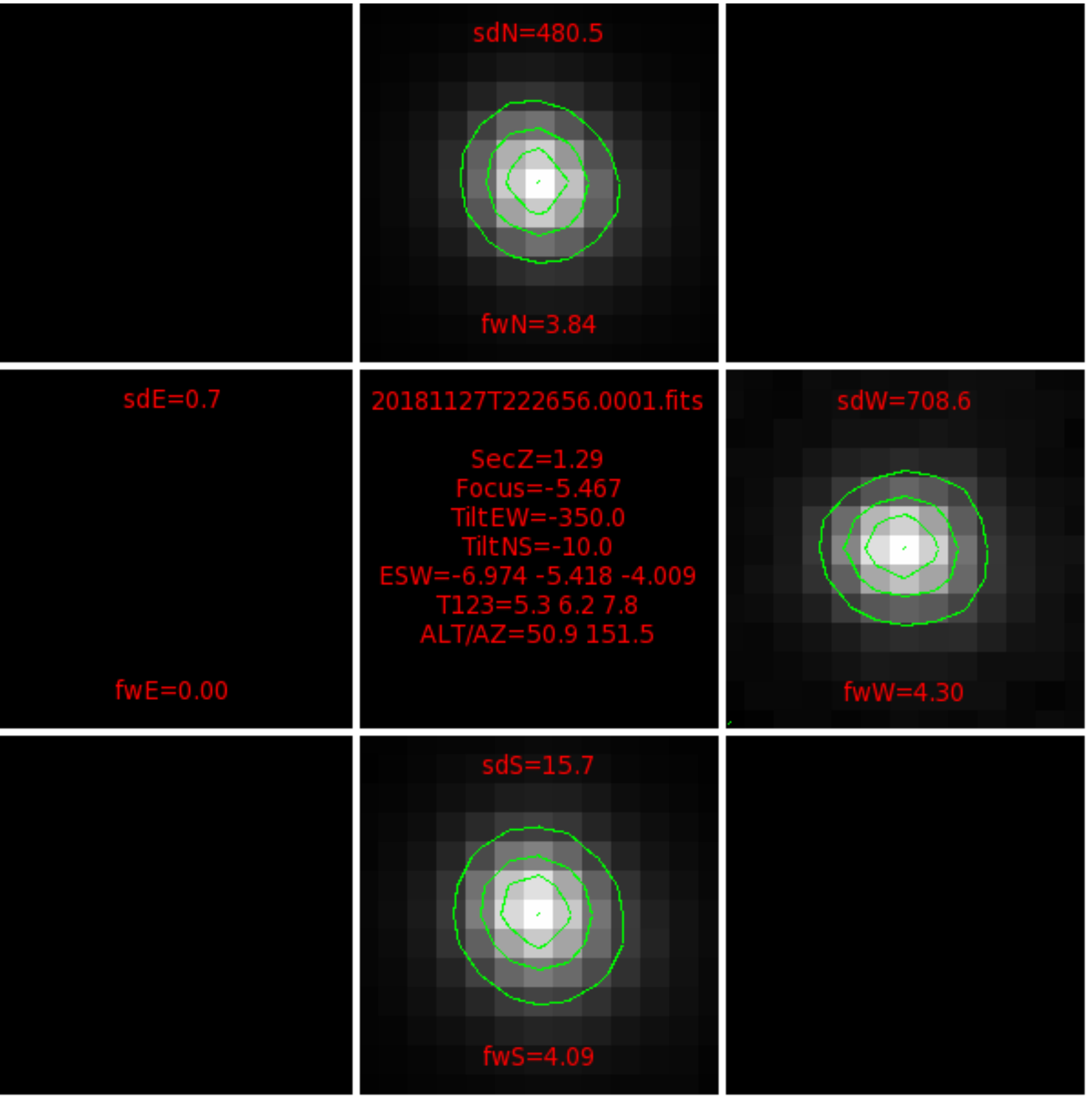
sdN=480.5
fwN=3.84
sdE=0.7
fwE=0.00
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SecZ=1.29
Focus=-5.467
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.974 -5.418 -4.009
T123=5.3 6.2 7.8
ALT/AZ=50.9 151.5
sdW=708.6
fwW=4.30
sdS=15.7
fwS=4.09
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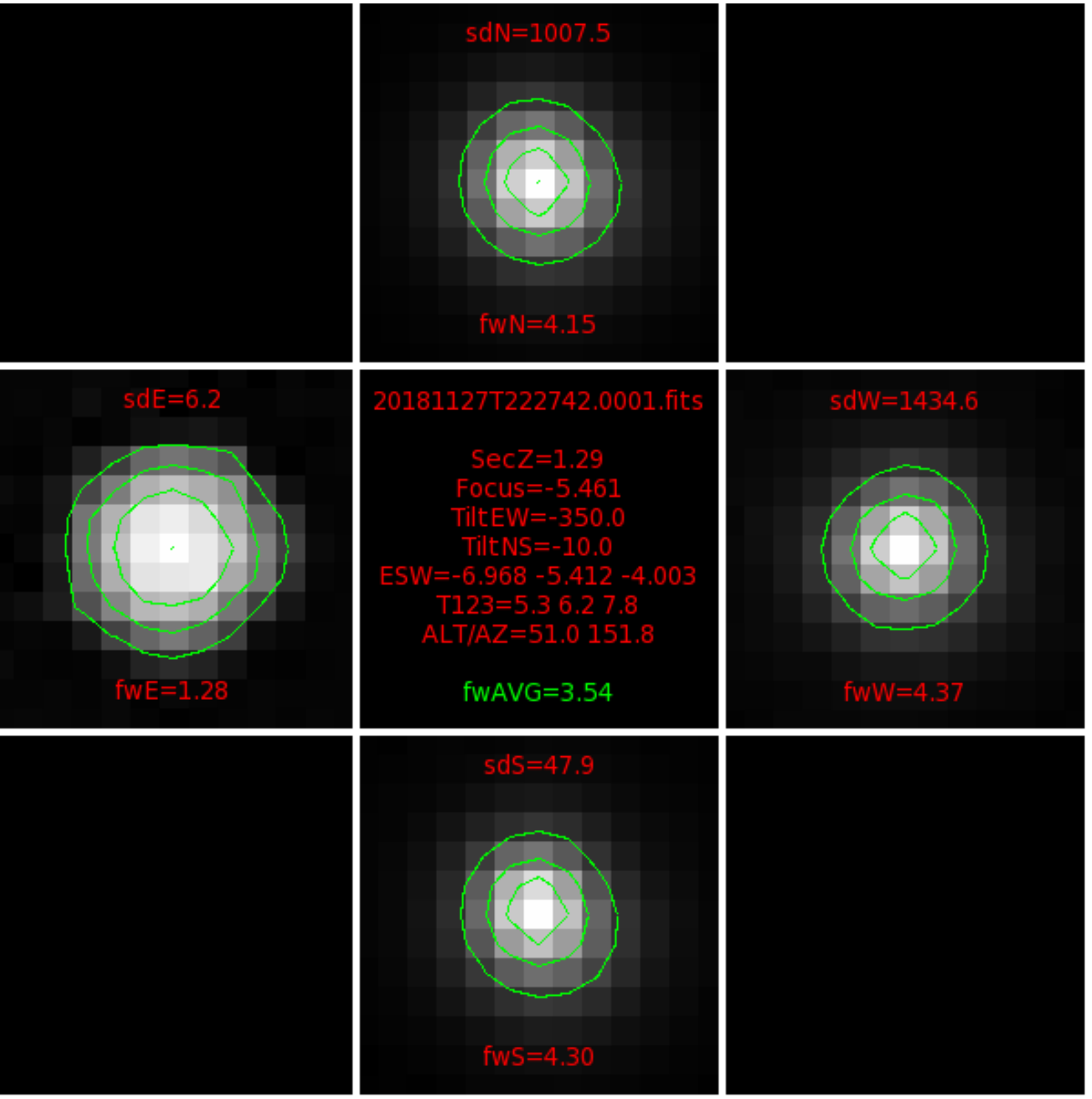
sdN=1007.5
fwN=4.15
sdE=6.2
fwE=1.28
20181127T222742.0001.fits
SecZ=1.29
Focus=-5.461
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.968 -5.412 -4.003
T123=5.3 6.2 7.8
ALT/AZ=51.0 151.8
fwAVG=3.54
sdW=1434.6
fwW=4.37
sdS=47.9
fwS=4.30
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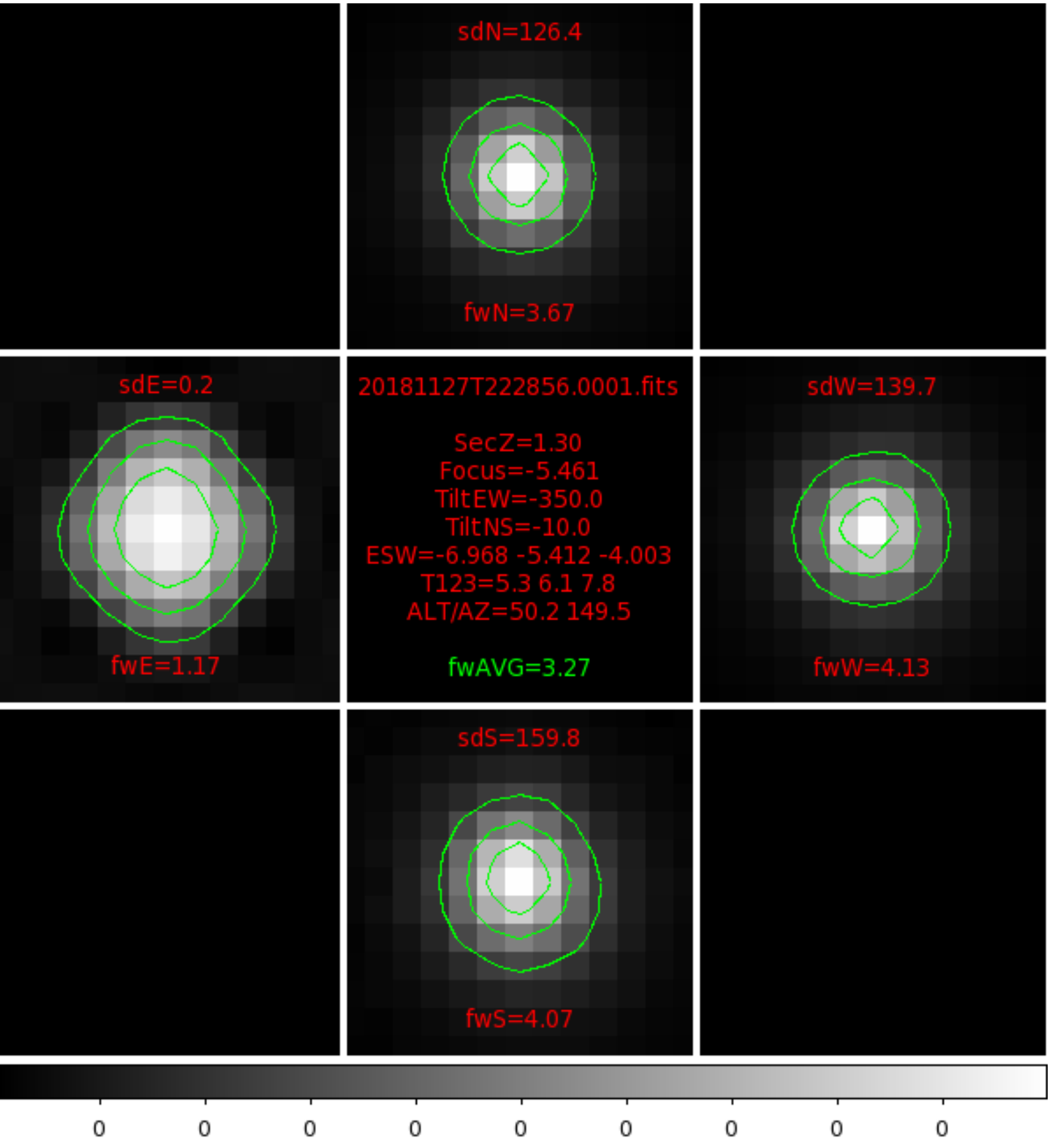
sdN=126.4
fwN=3.67
sdE=0.2
fwE=1.17
20181127T222856.0001.fits
SecZ=1.30
Focus=-5.461
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.968 -5.412 -4.003
T123=5.3 6.1 7.8
ALT/AZ=50.2 149.5
fwAVG=3.27
sdW=139.7
fwW=4.13
sdS=159.8
fwS=4.07
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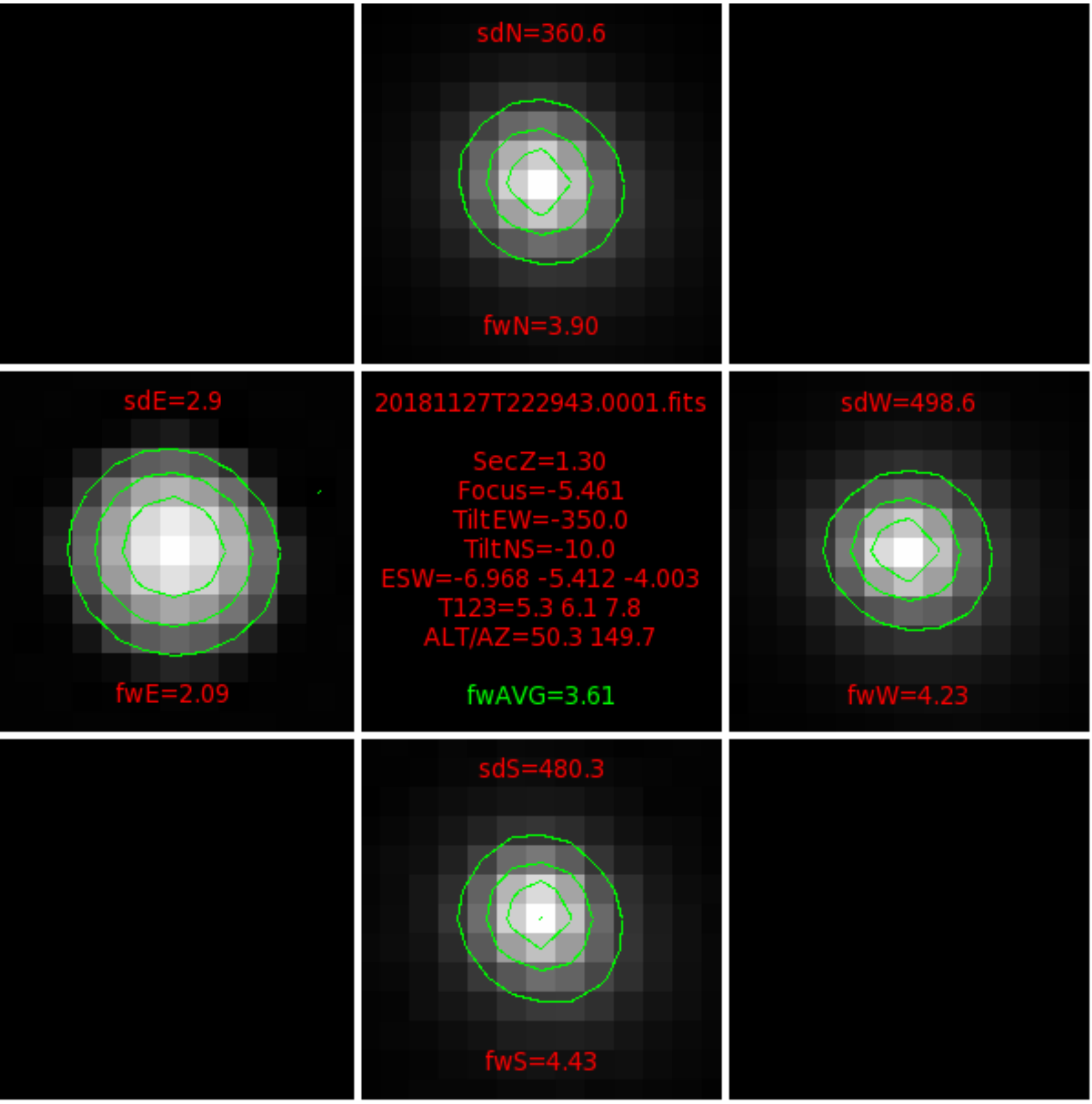
sdN=360.6
fwN=3.90
sdE=2.9
fwE=2.09
20181127T222943.0001.fits
SecZ=1.30
Focus=-5.461
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.968 -5.412 -4.003
T123=5.3 6.1 7.8
ALT/AZ=50.3 149.7
fwAVG=3.61
sdW=498.6
fwW=4.23
sdS=480.3
fwS=4.43
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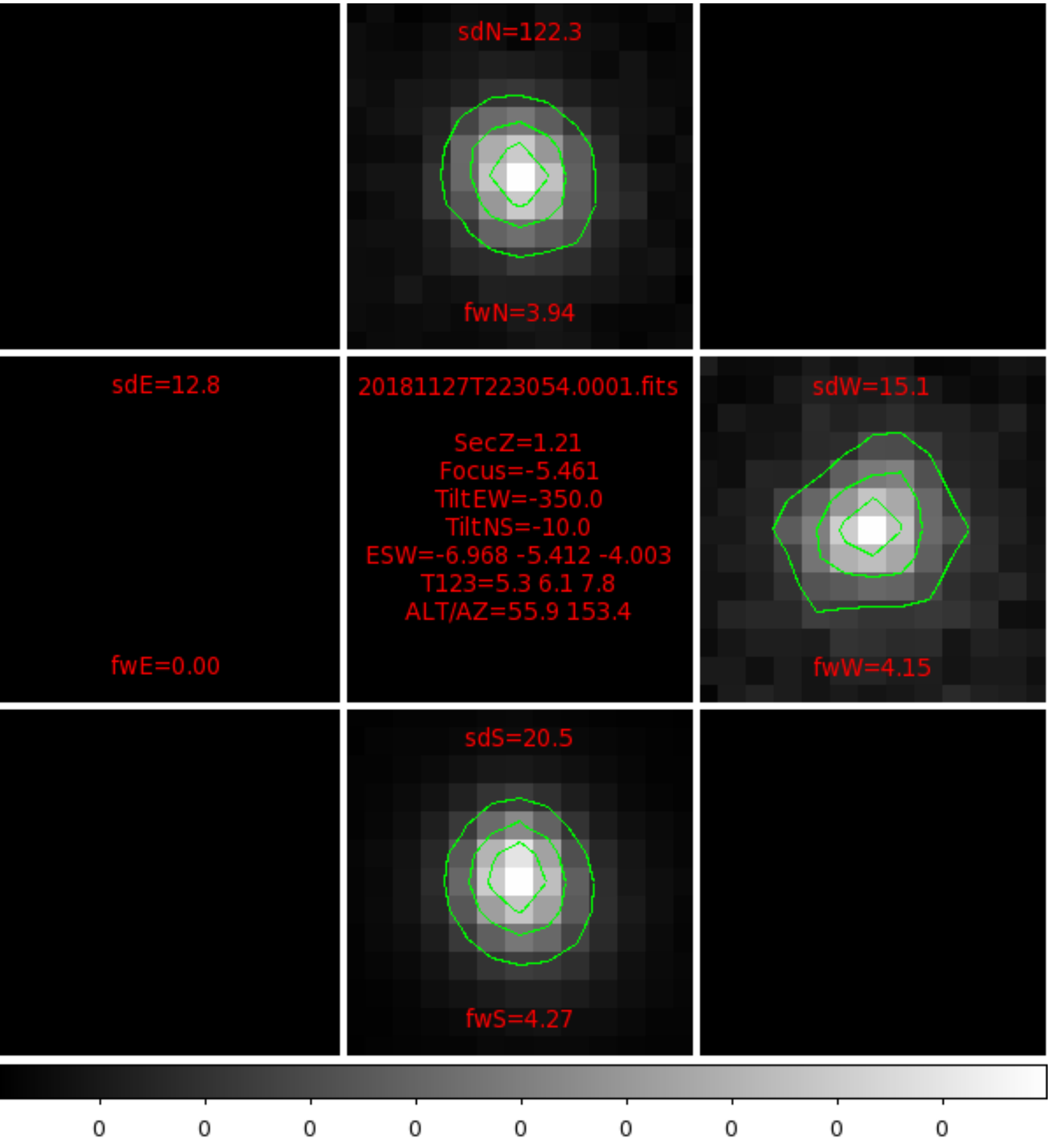
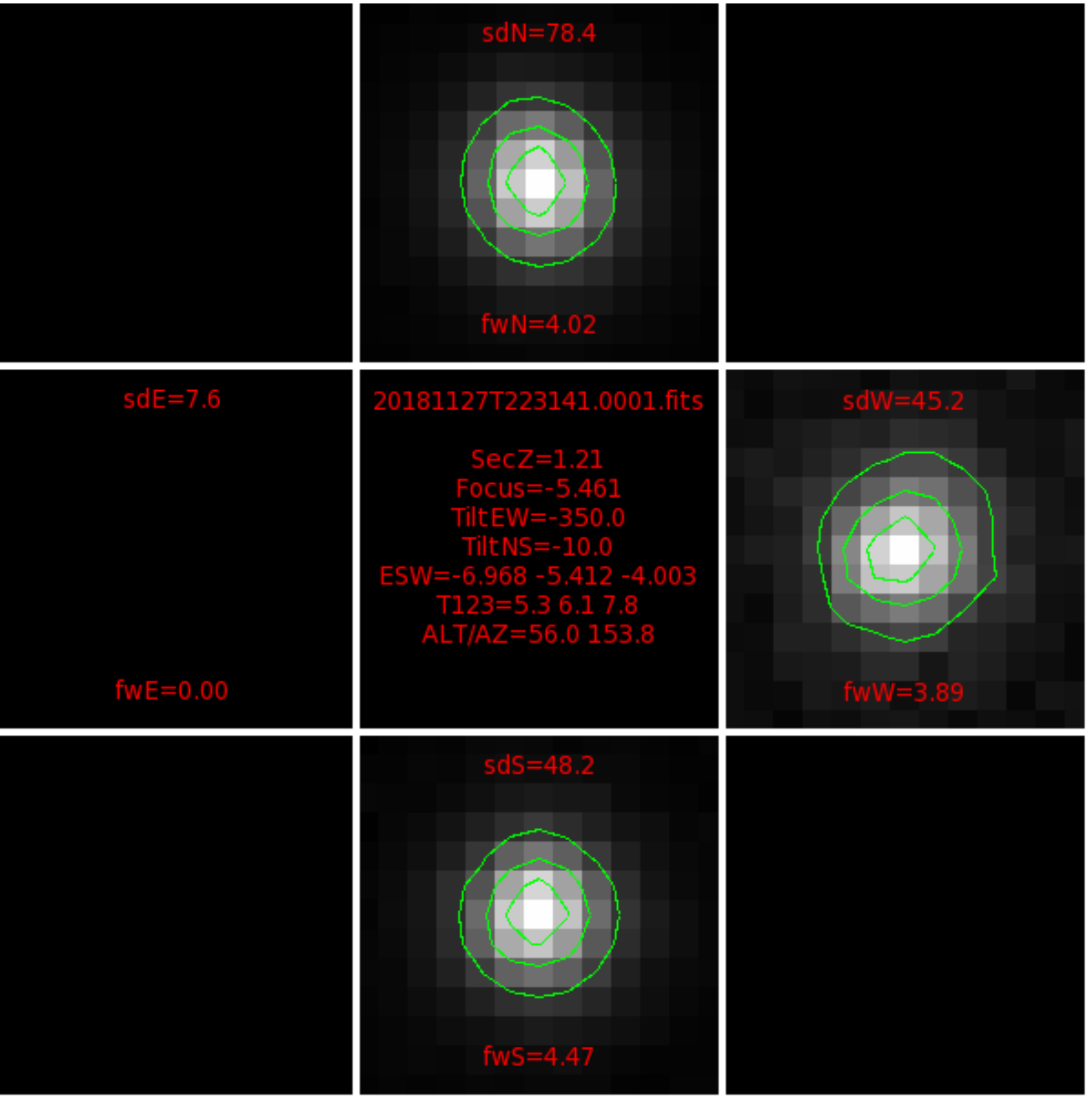

sdN=122.3
fwN=3.94
sdE=12.8
fwE=0.00
20181127T223054.0001.fits
SecZ=1.21
Focus=-5.461
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.968 -5.412 -4.003
T123=5.3 6.1 7.8
ALT/AZ=55.9 153.4
sdW=15.1
fwW=4.15
sdS=20.5
fwS=4.27
0 0 0 0 0 0 0 0 0


sdN=78.4
fwN=4.02
sdE=7.6
fwE=0.00
20181127T223141.0001.fits
SecZ=1.21
Focus=-5.461
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.968 -5.412 -4.003
T123=5.3 6.1 7.8
ALT/AZ=56.0 153.8
sdW=45.2
fwW=3.89
sdS=48.2
fwS=4.47
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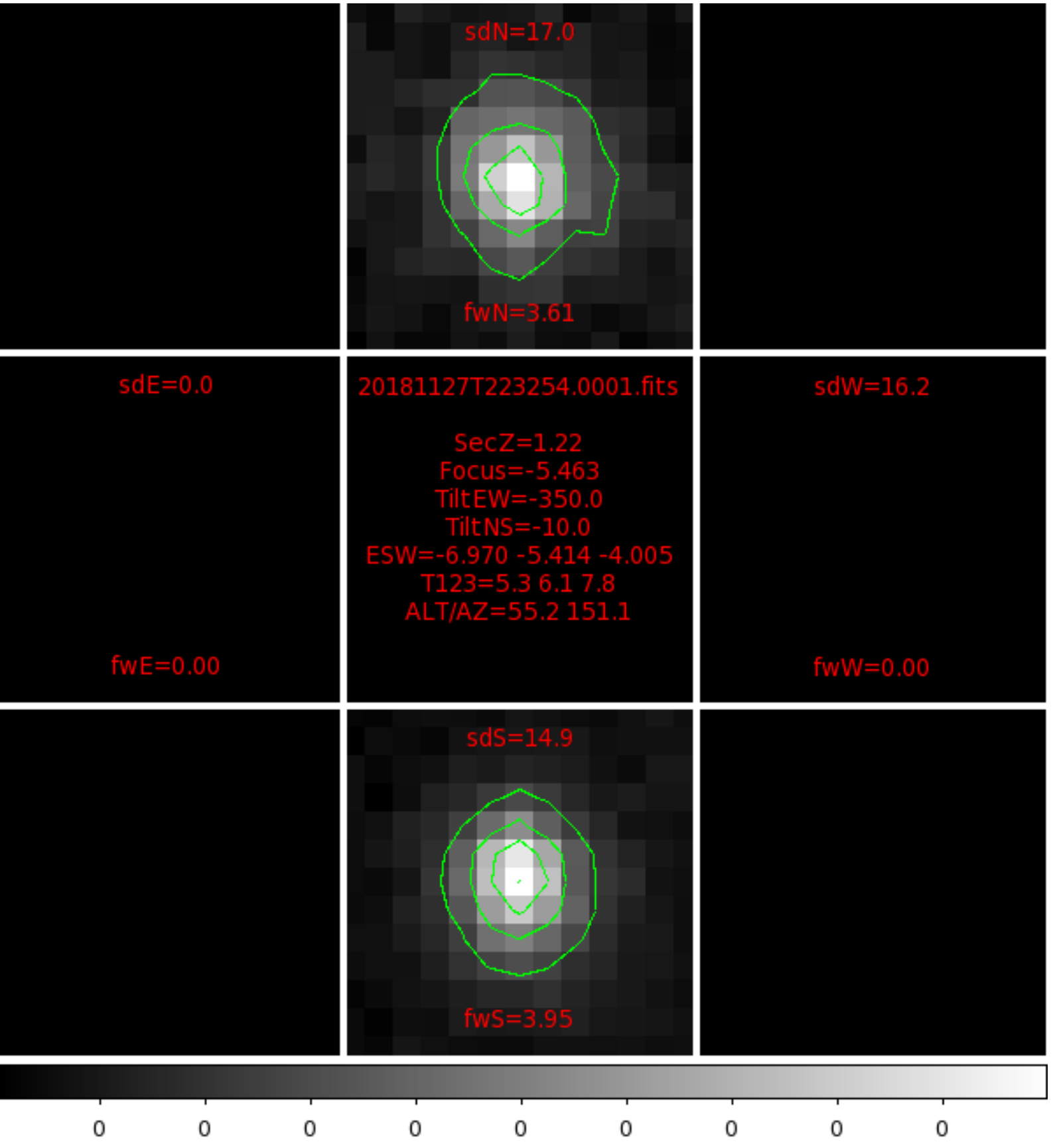
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fwN=3.61
sdE=0.0
fwE=0.00
20181127T223254.0001.fits
SecZ=1.22
Focus=-5.463
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.970 -5.414 -4.005
T123=5.3 6.1 7.8
ALT/AZ=55.2 151.1
sdW=16.2
fwW=0.00
sdS=14.9
fwS=3.95
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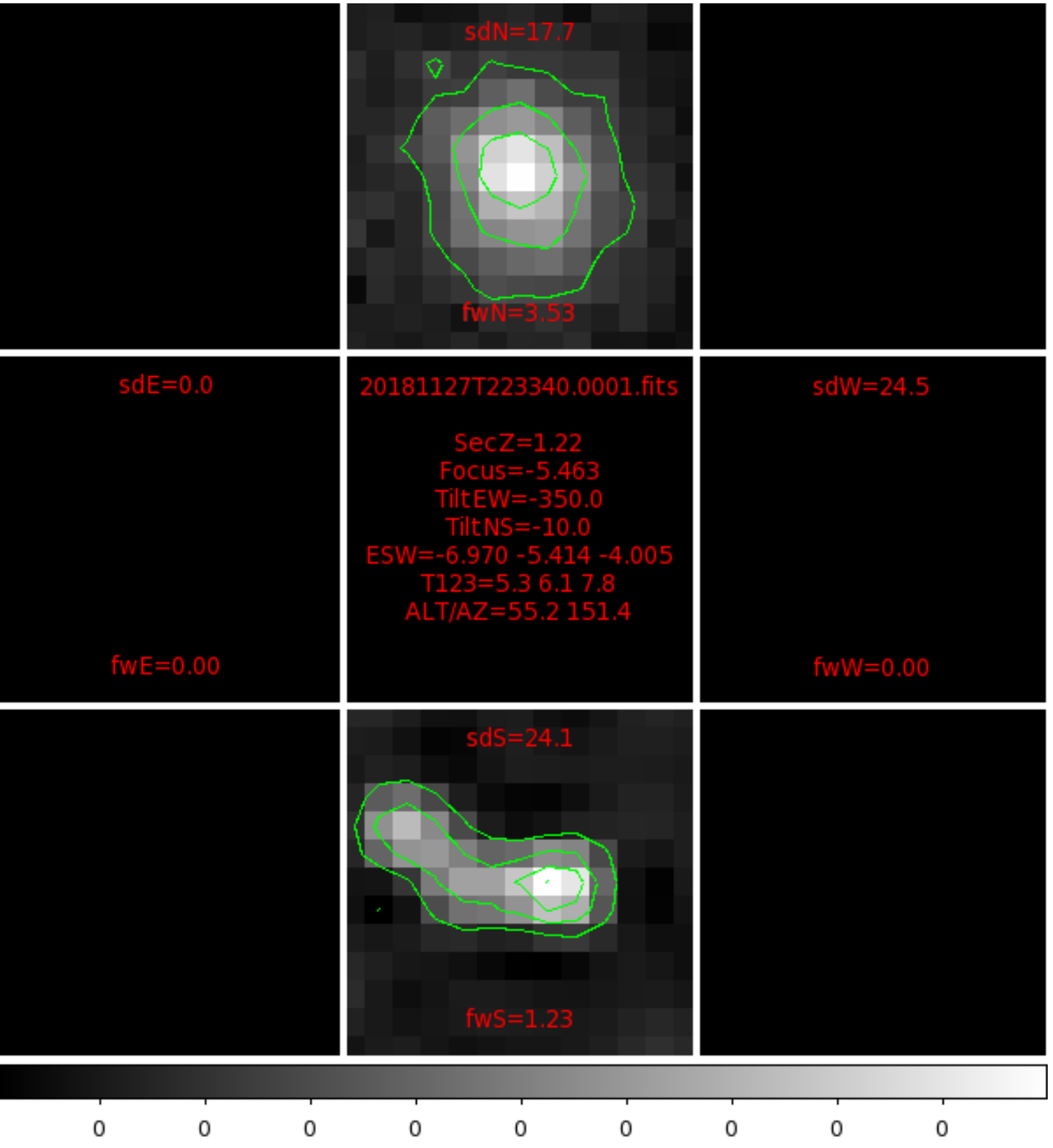
sdN=17.7
fwN=3.53
sdE=0.0
20181127T223340.0001.fits
SecZ=1.22
Focus=-5.463
TiltEW=-350.0
TiltNS=-10.0
ESW=-6.970 -5.414 -4.005
T123=5.3 6.1 7.8
ALT/AZ=55.2 151.4
sdW=24.5
fwE=0.00
fwW=0.00
sdS=24.1
fwS=1.23
0 0 0 0 0 0 0 0 0