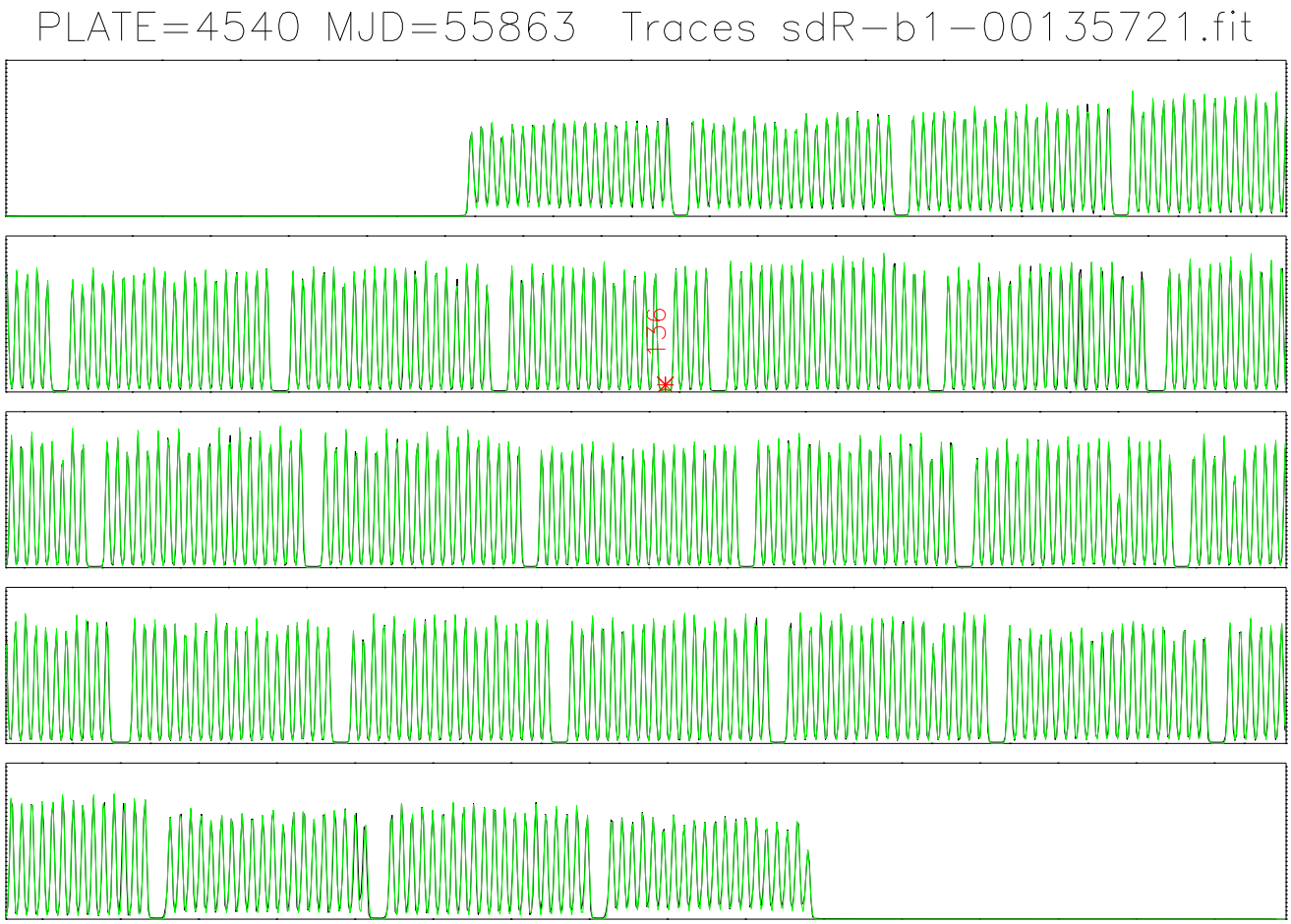
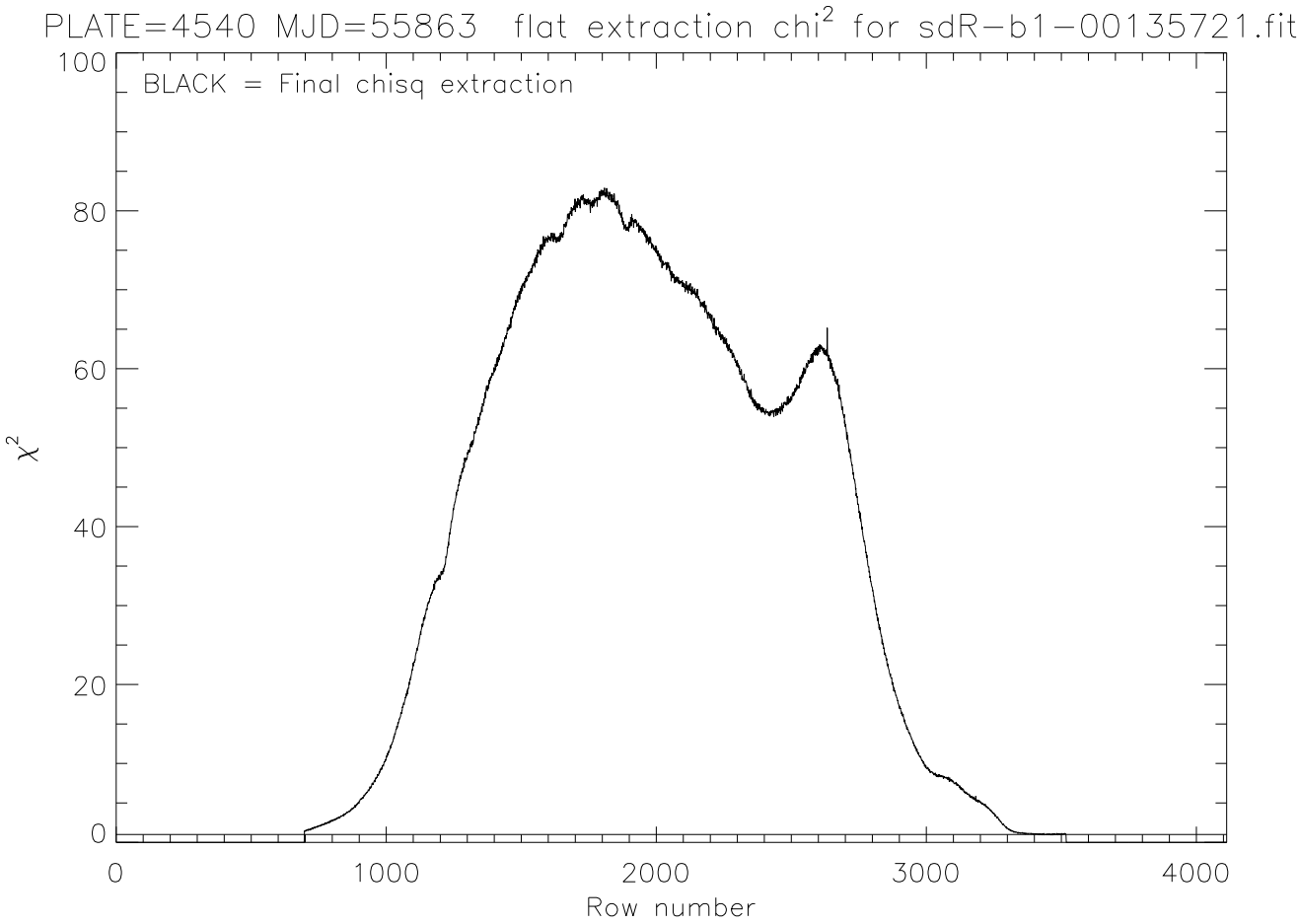
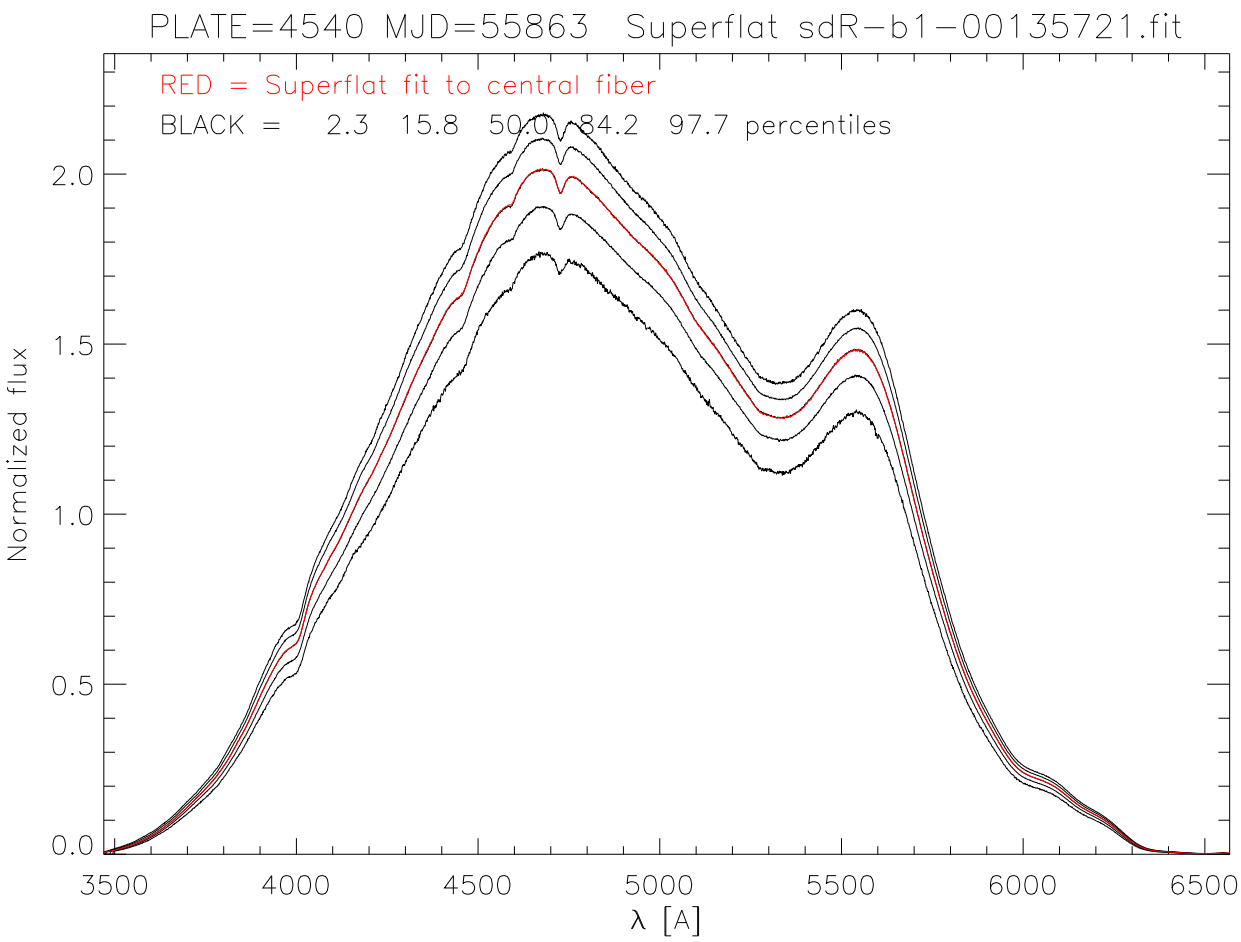
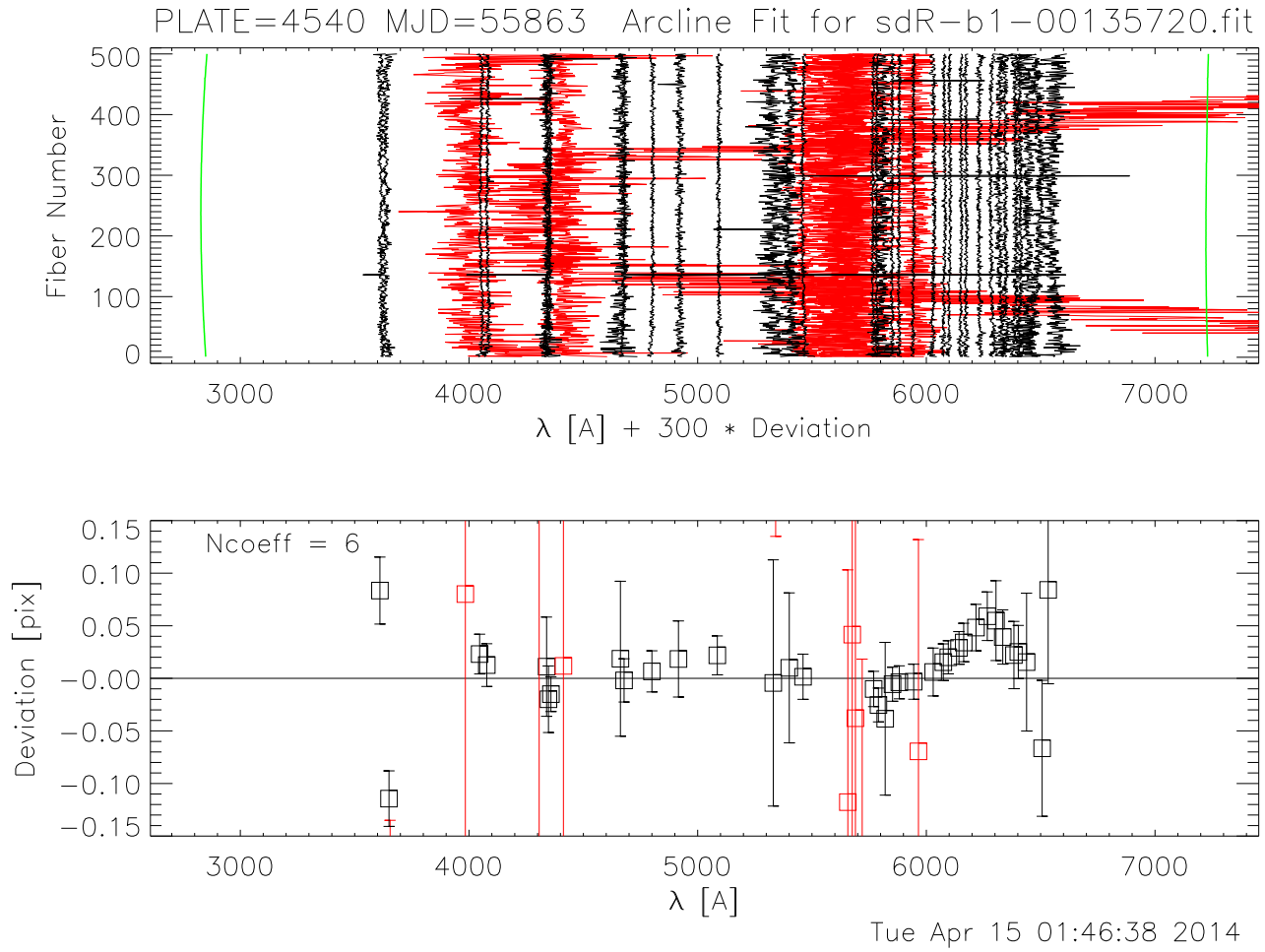
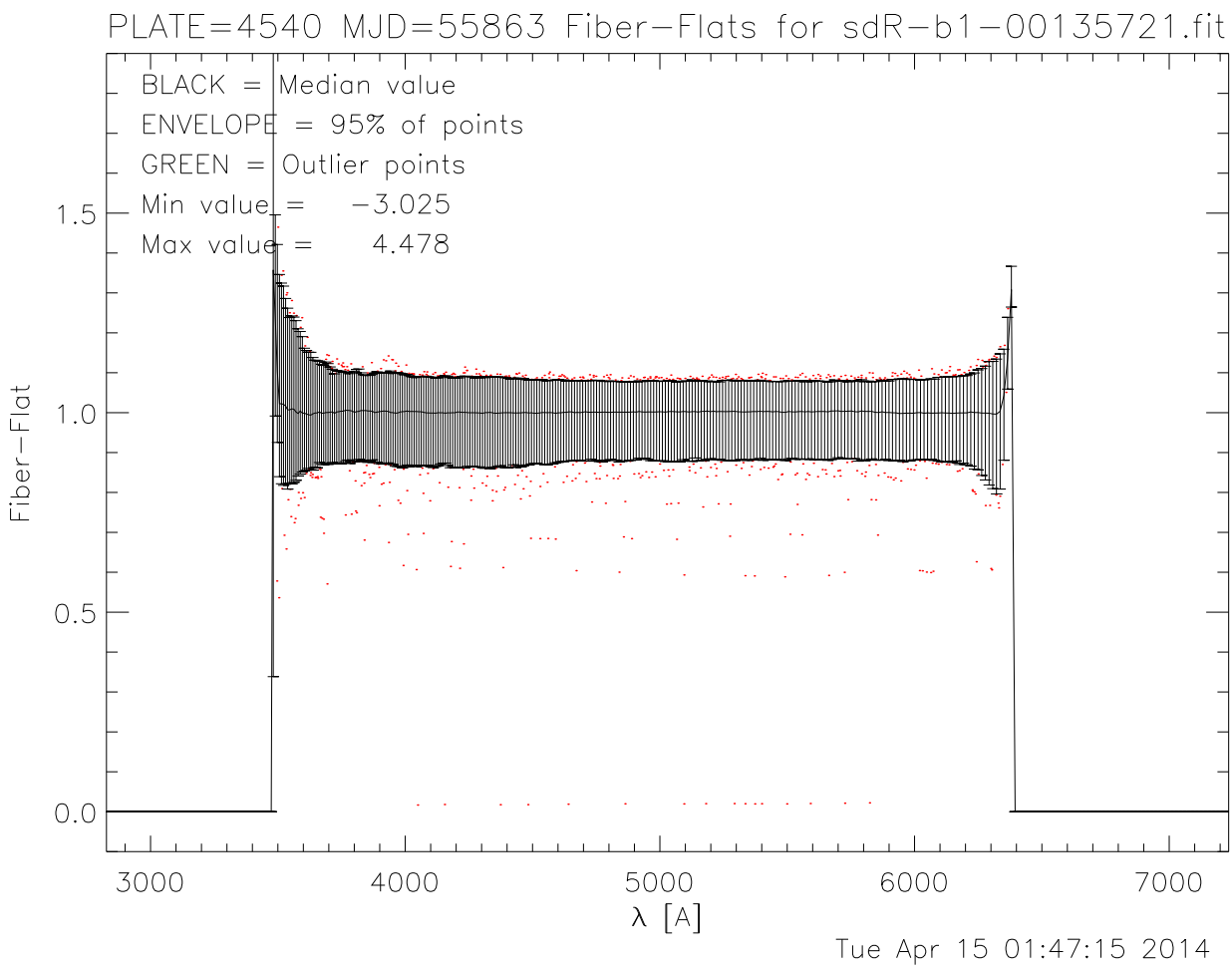
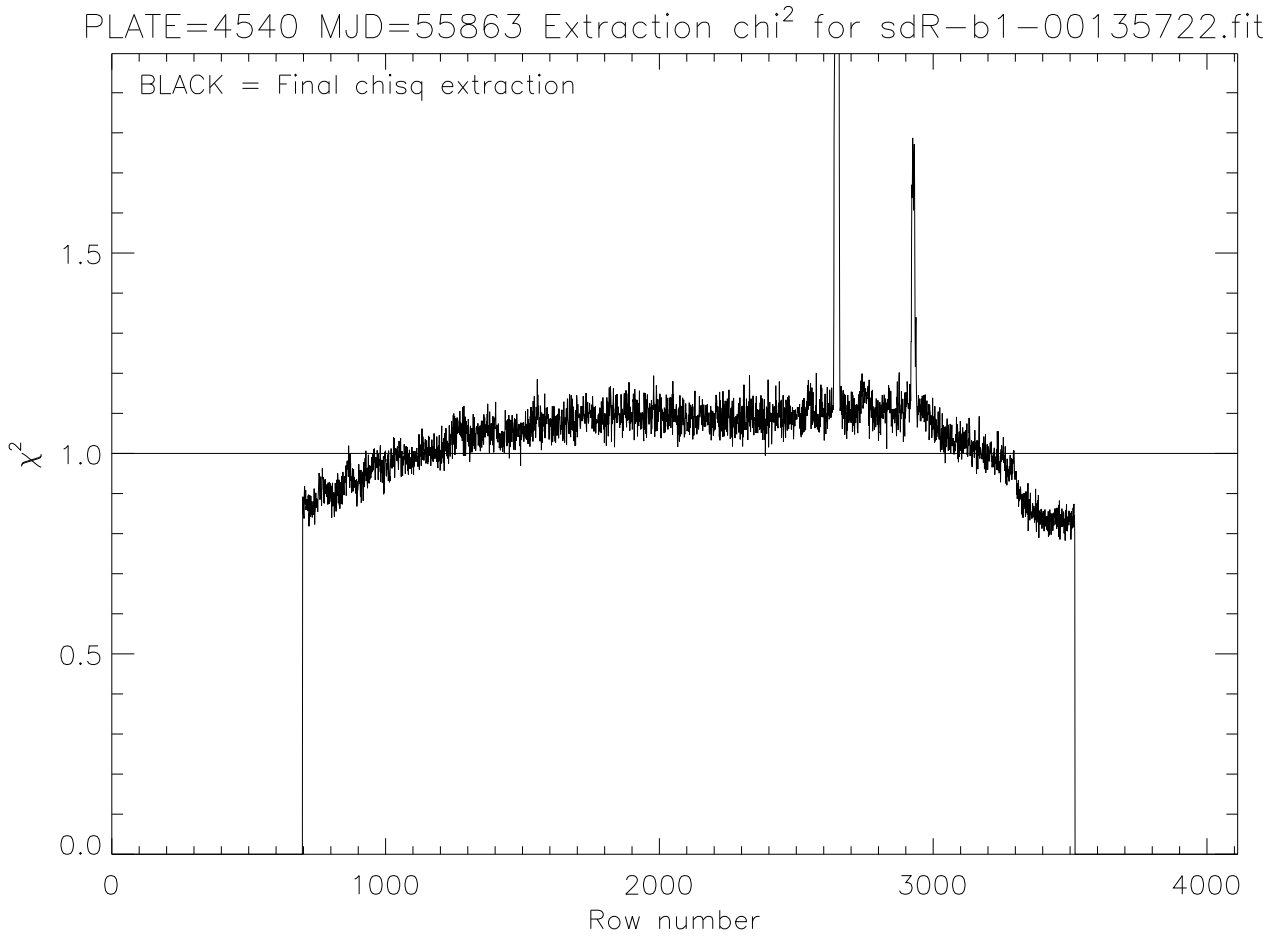

PLATE=4540 MJD=55863 Traces sdR-b1-00135721.fit
156

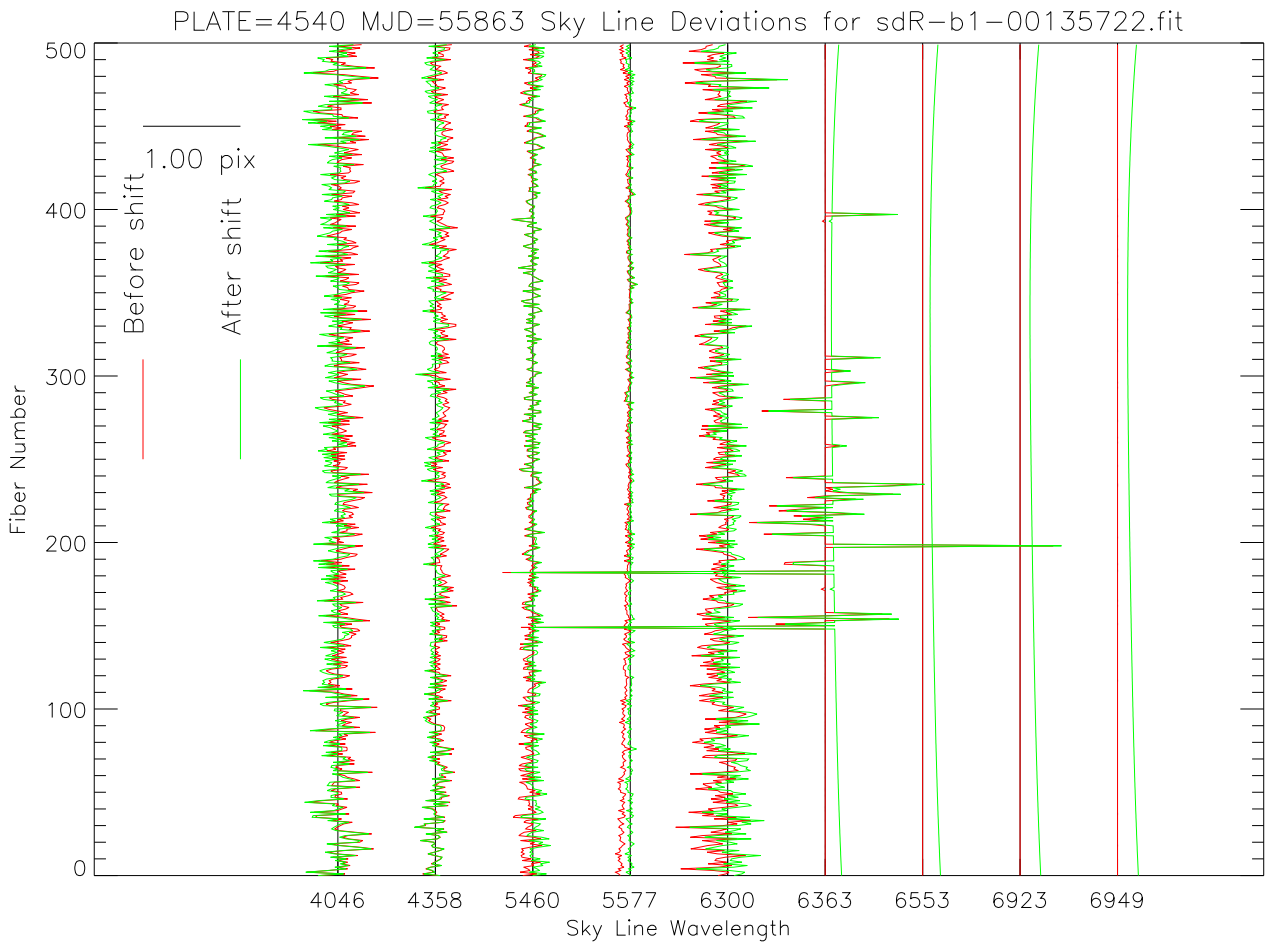

PLATE=4540 MJD=55863 flat extraction chi^2 for sdR−b1−00135721.fit
BLACK = Final chisq extraction
χ^2
Row number
0
20
40
60
80
100
0
1000
2000
3000
4000

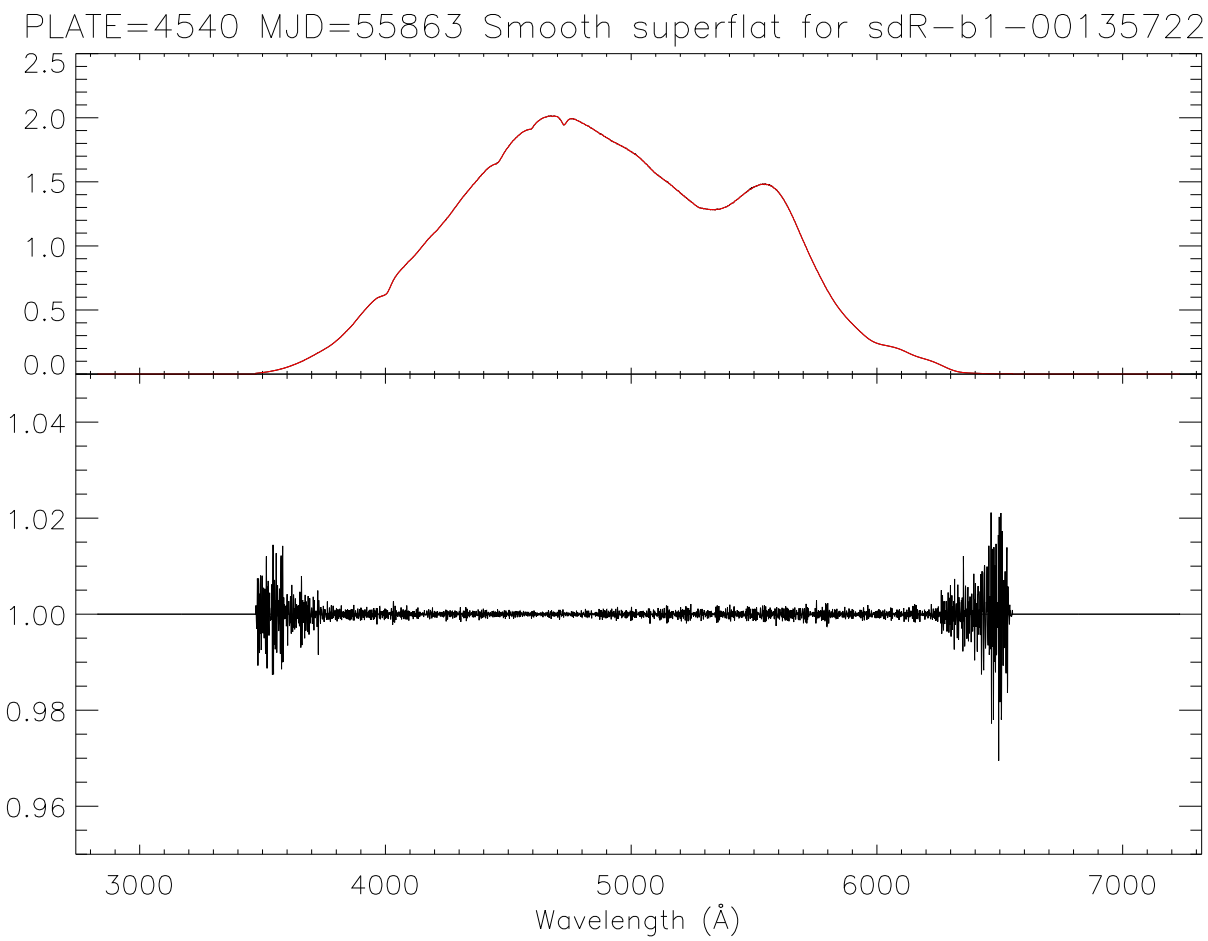

PLATE=4540 MJD=55863 Superflat sdR-b1-00135721.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
0.0
0.5
1.0
1.5
2.0
3500
4000
4500
5000
5500
6000
6500
λ [A]

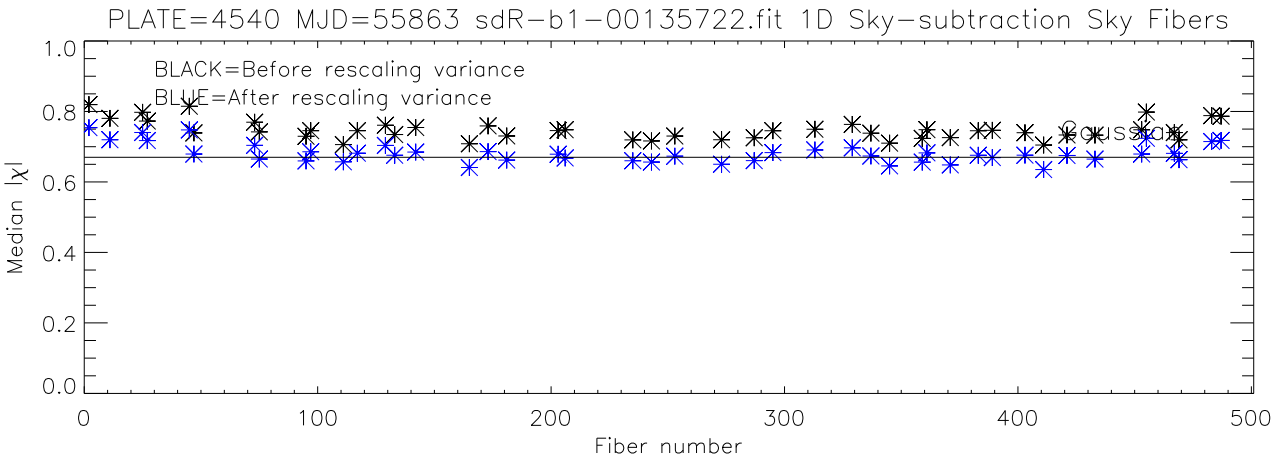

PLATE=4540 MJD=55863 Arcline Fit for sdR-b1-00135720.fit
Fiber Number
500
400
300
200
100
0
3000
4000
5000
6000
7000
λ [A] + 300 * Deviation
Ncoeff = 6
Deviation [pix]
0.15
0.10
0.05
−0.00
−0.05
−0.10
−0.15
3000
4000
5000
6000
7000
λ [A]
Tue Apr 15 01:46:38 2014

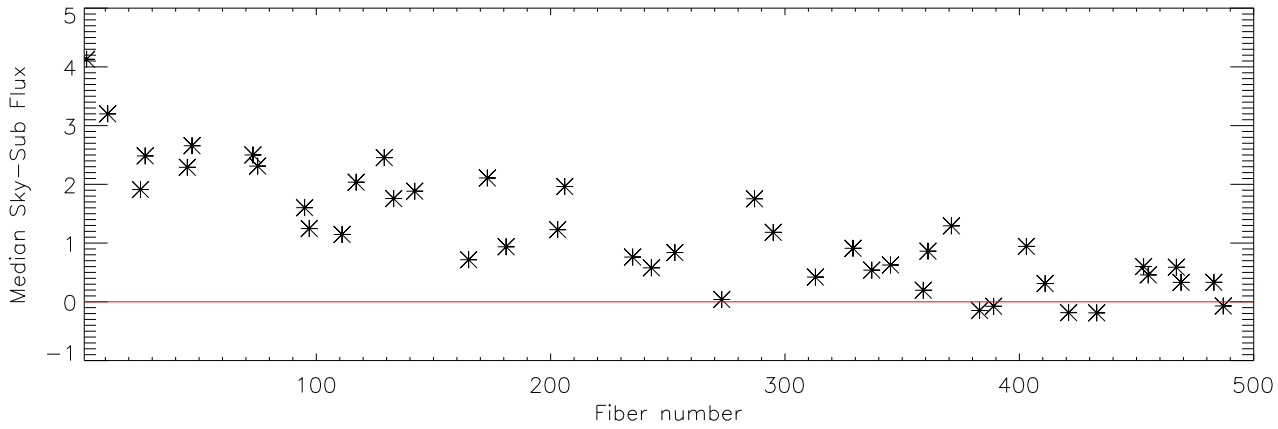

PLATE=4540 MJD=55863 Fiber−Flats for sdR−b1−00135721.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −3.025
Max value = 4.478
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Tue Apr 15 01:47:15 2014

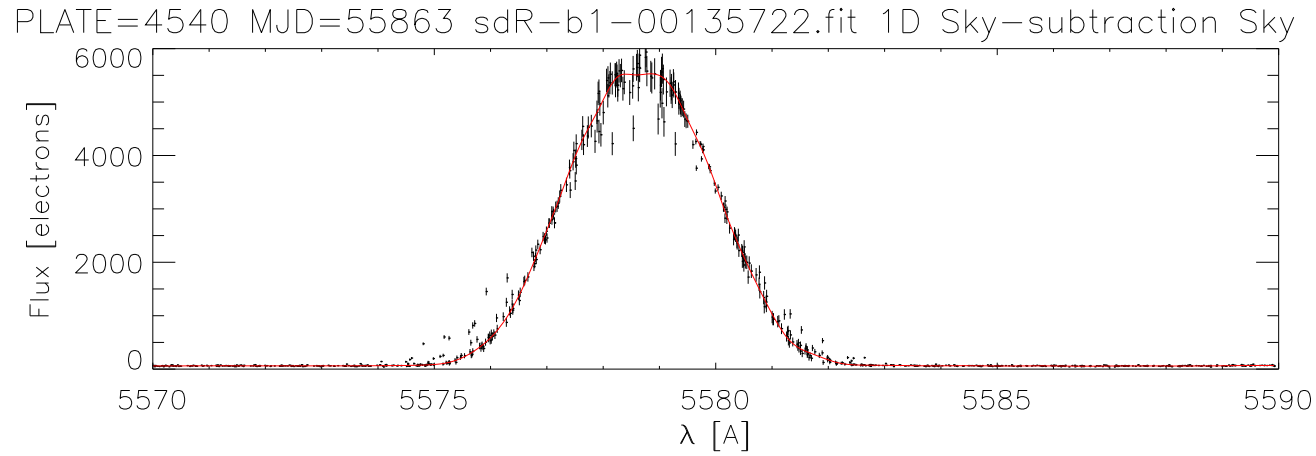

PLATE=4540 MJD=55863 Extraction chi^2 for sdR−b1−00135722.fit
BLACK = Final chisq extraction
χ^2
0.0
0.5
1.0
1.5
0
1000
2000
3000
4000
Row number

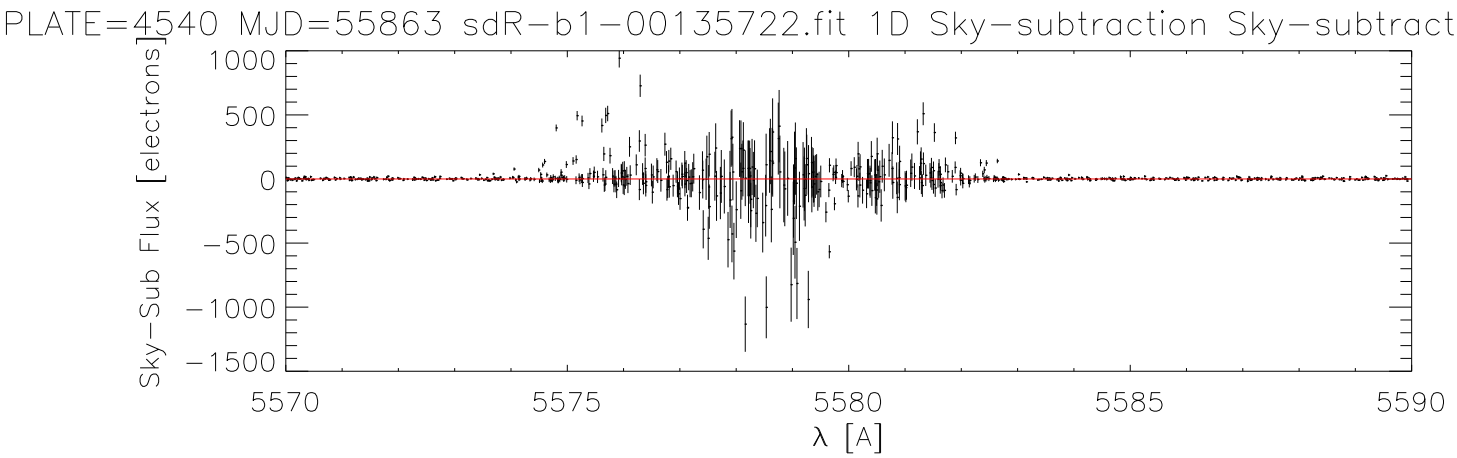

PLATE=4540 MJD=55863 Sky Line Deviations for sdR-b1-00135722.fit
1.00 pix
Before shift
After shift
Fiber Number
0
100
200
300
400
500
4046
4358
5460
5577
6300
6363
6553
6923
6949
Sky Line Wavelength


PLATE=4540 MJD=55863 Smooth superflat for sdR-b1-00135722.fit
2.5
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

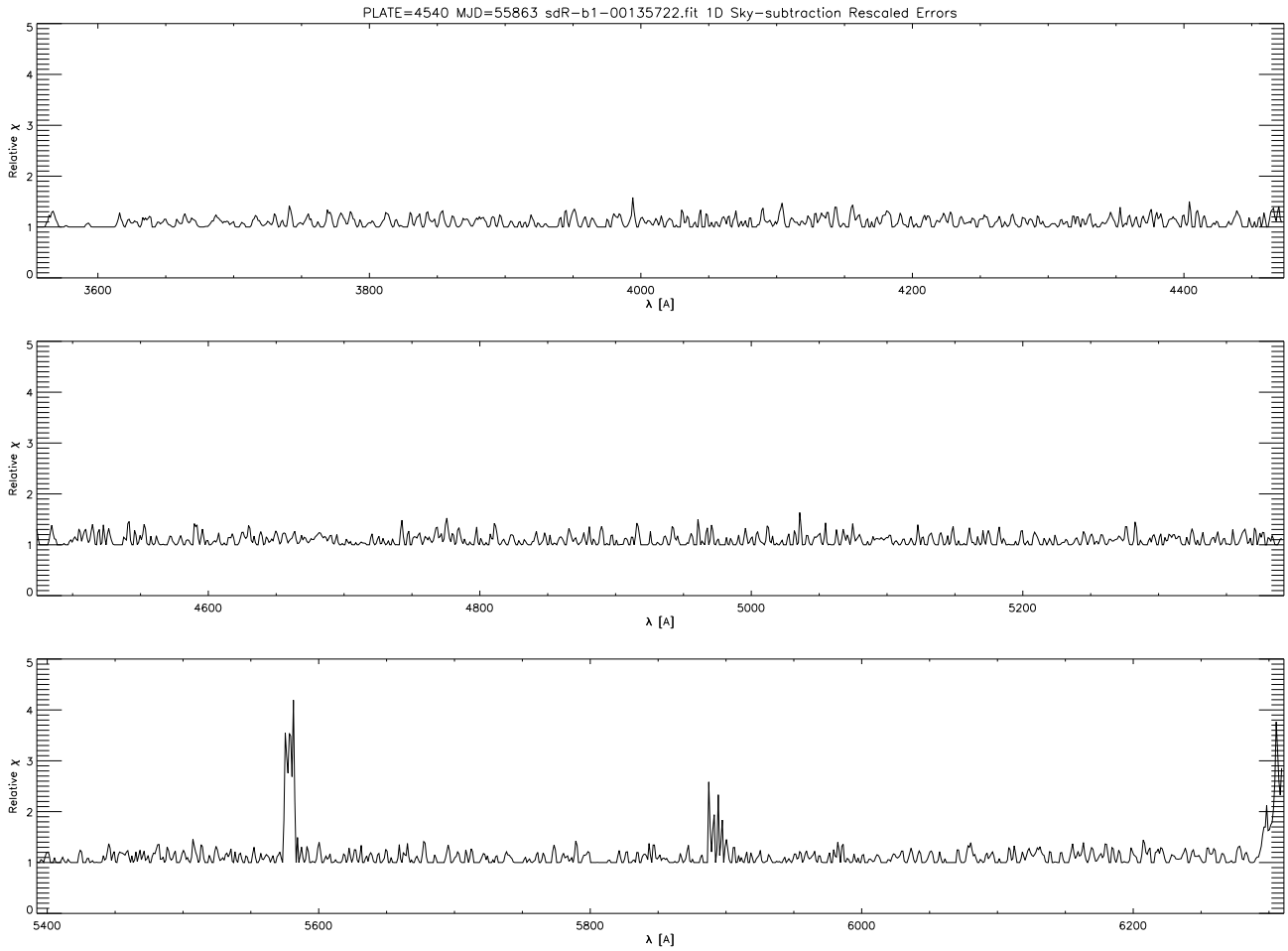

PLATE=4540 MJD=55863 sdR-b1-00135722.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Median |χ|
Fiber number

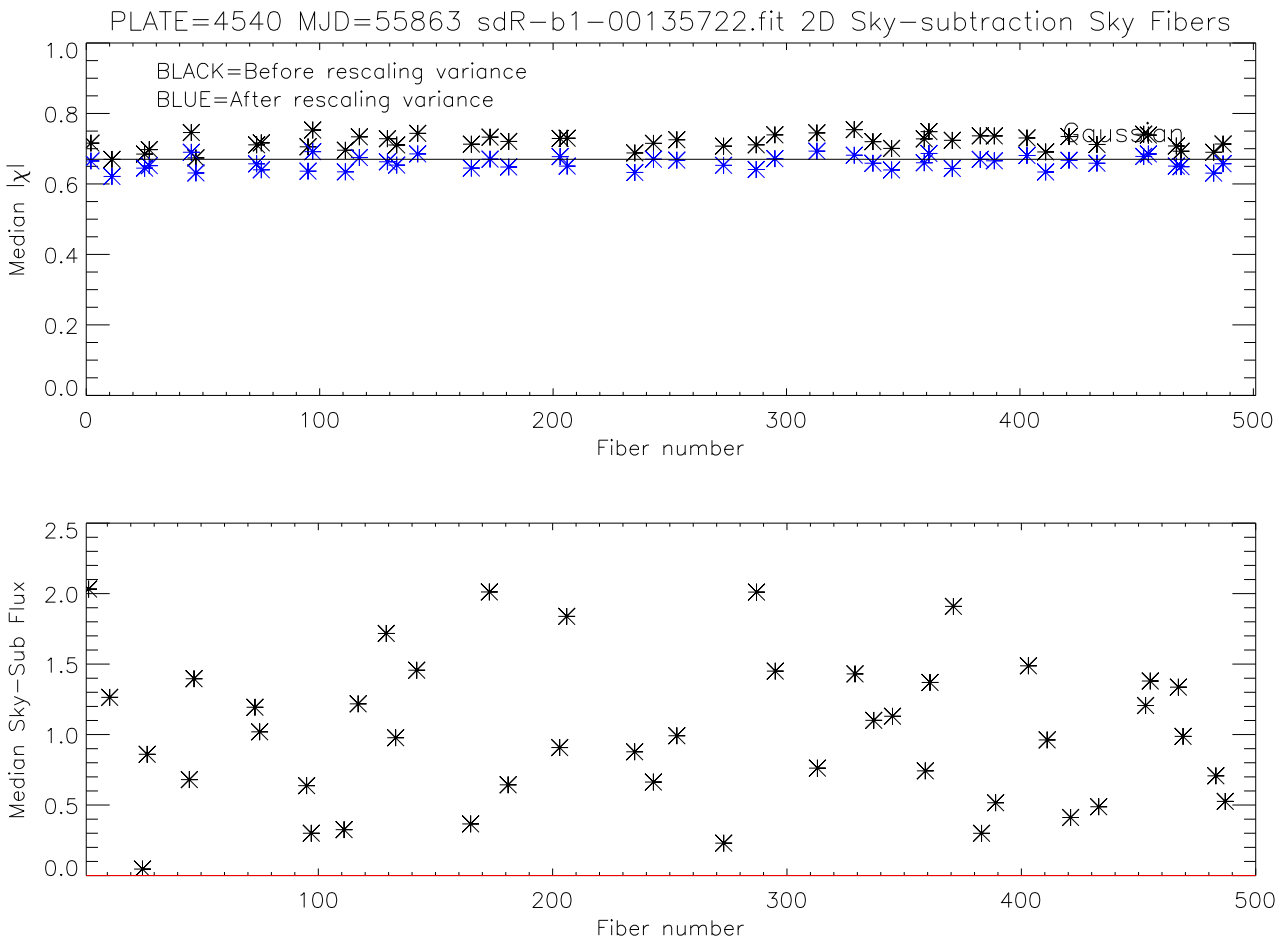

Median Sky-Sub Flux
Fiber number

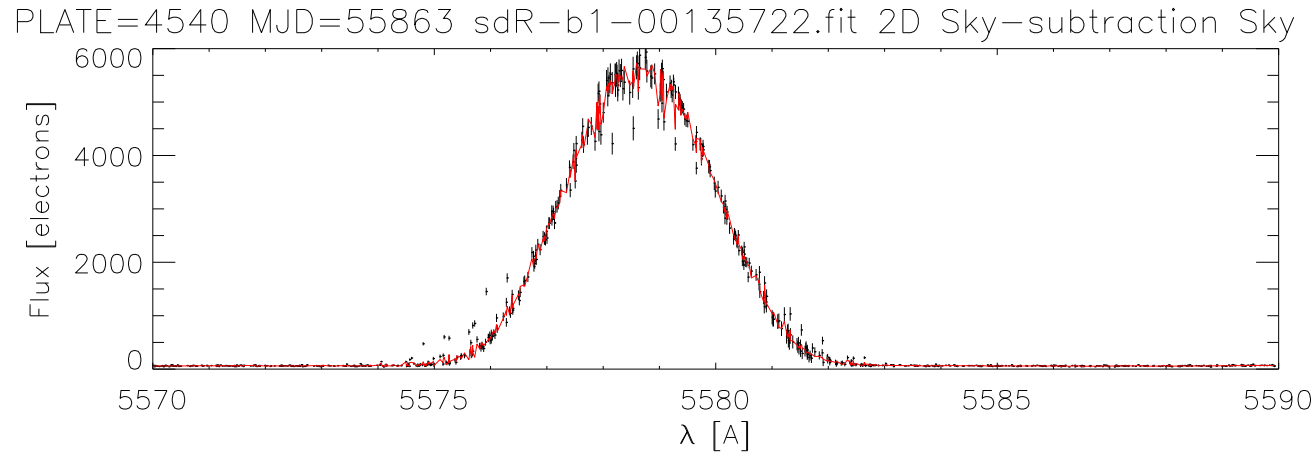

PLATE=4540 MJD=55863 sdR-b1-00135722.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

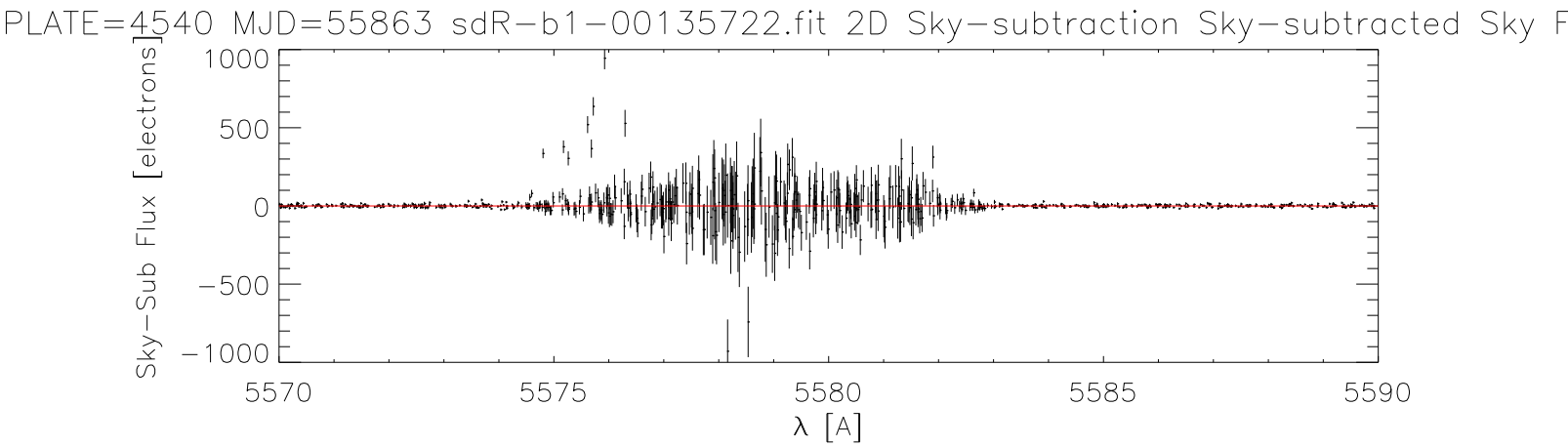

PLATE=4540 MJD=55863 sdR-b1-00135722.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
500
0
-500
-1000
-1500
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 45

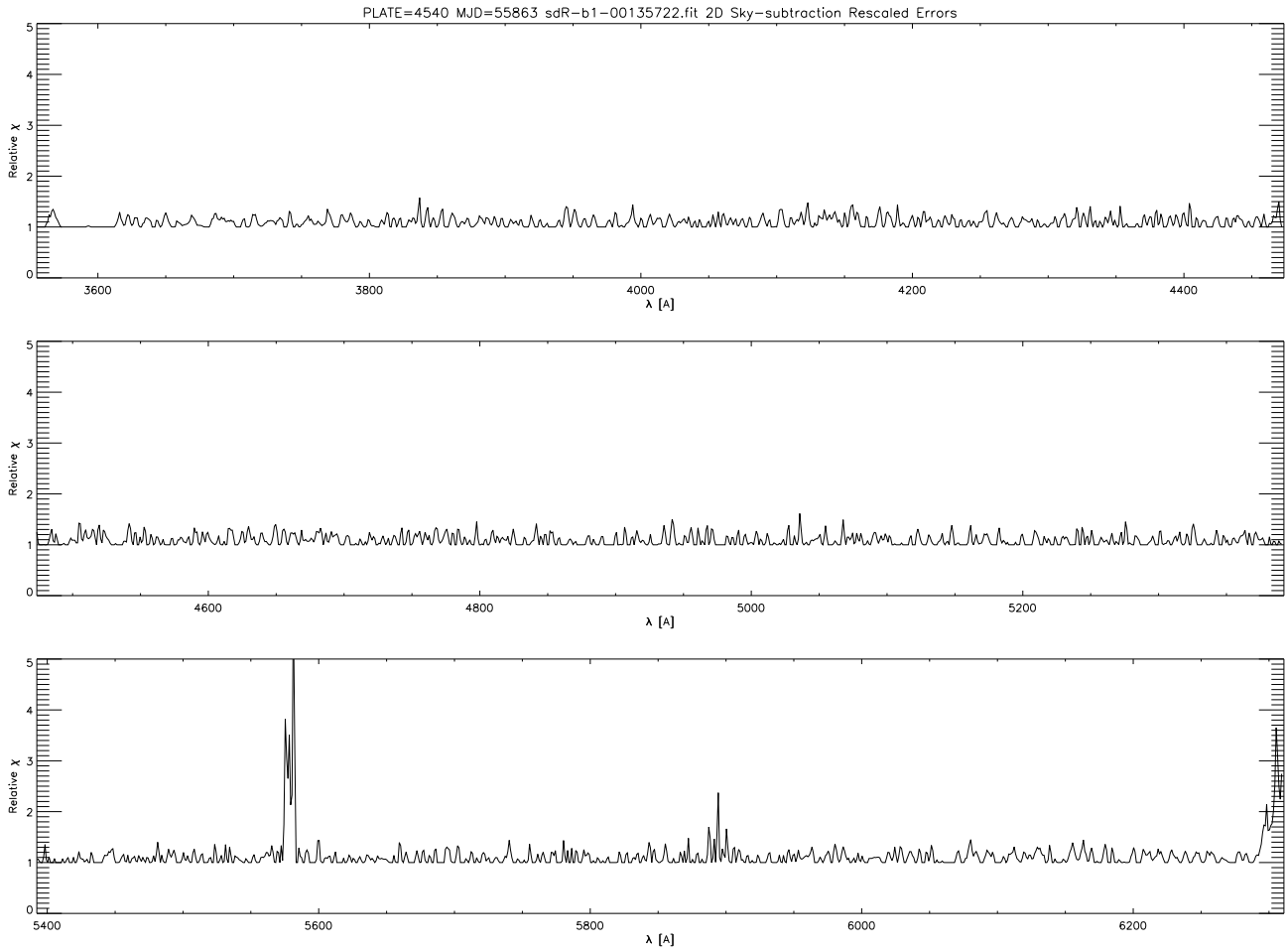


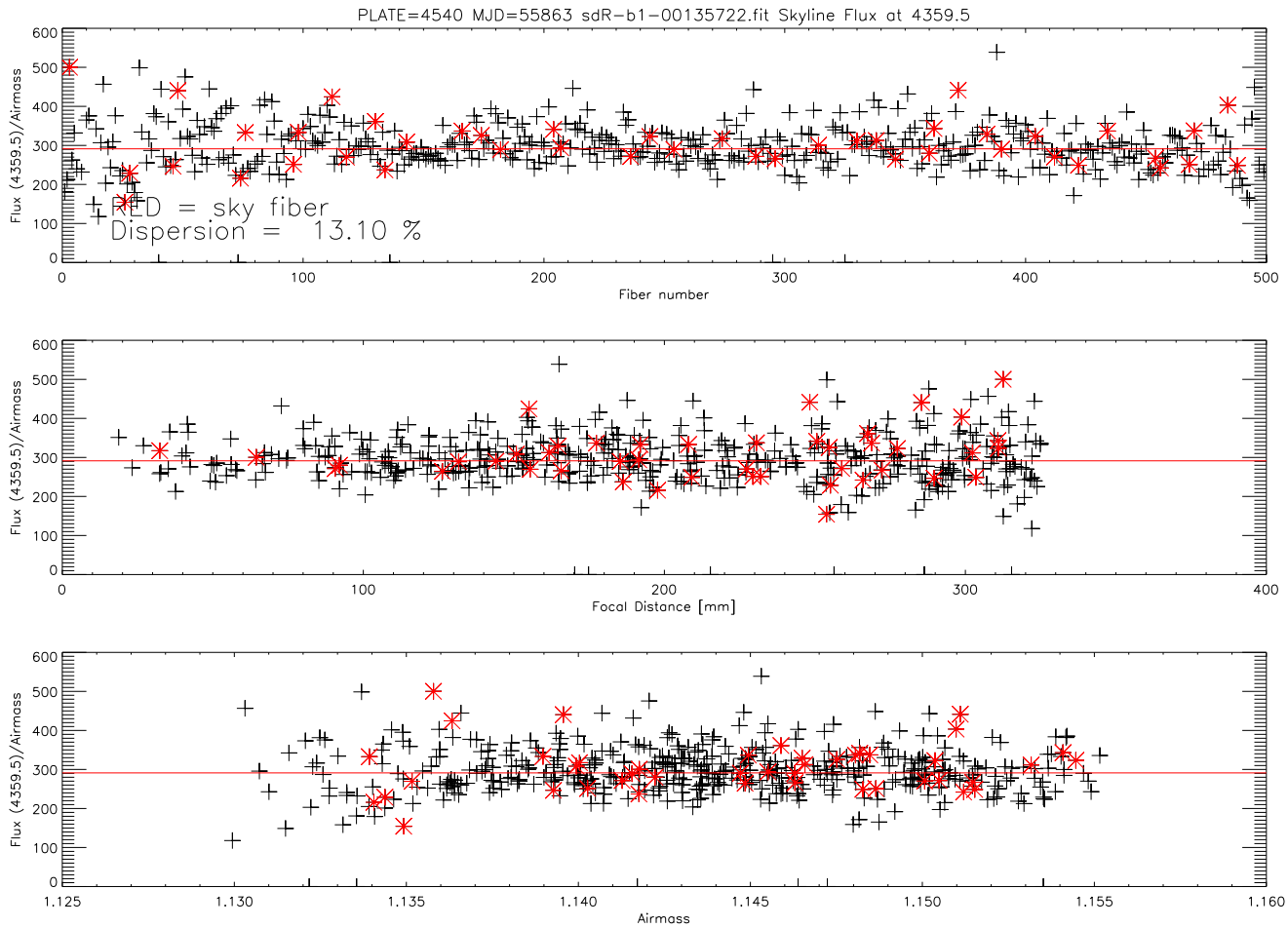

PLATE=4540 MJD=55863 sdR-b1-00135722.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

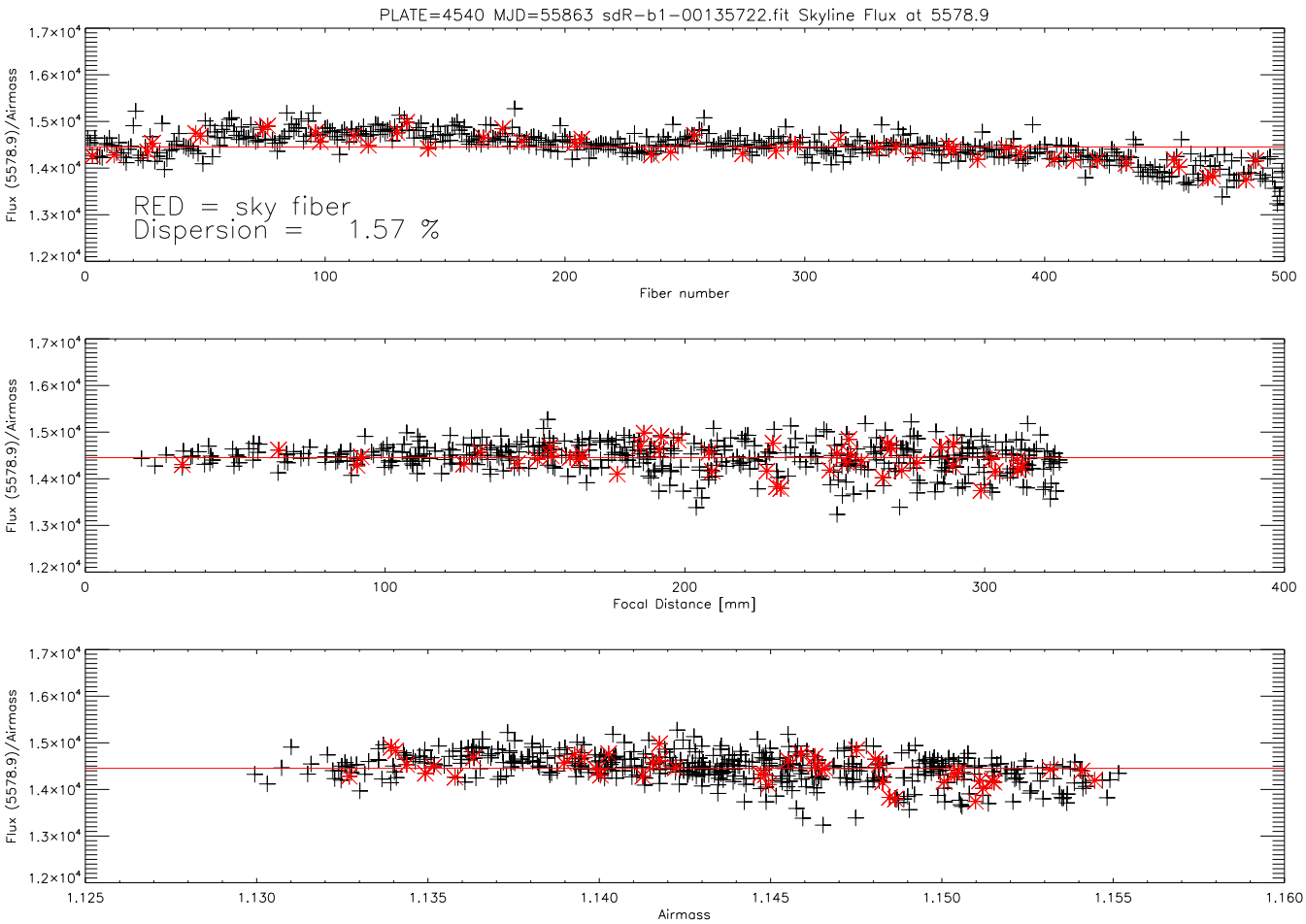

PLATE=4540 MJD=55863 sdR-b1-00135722.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

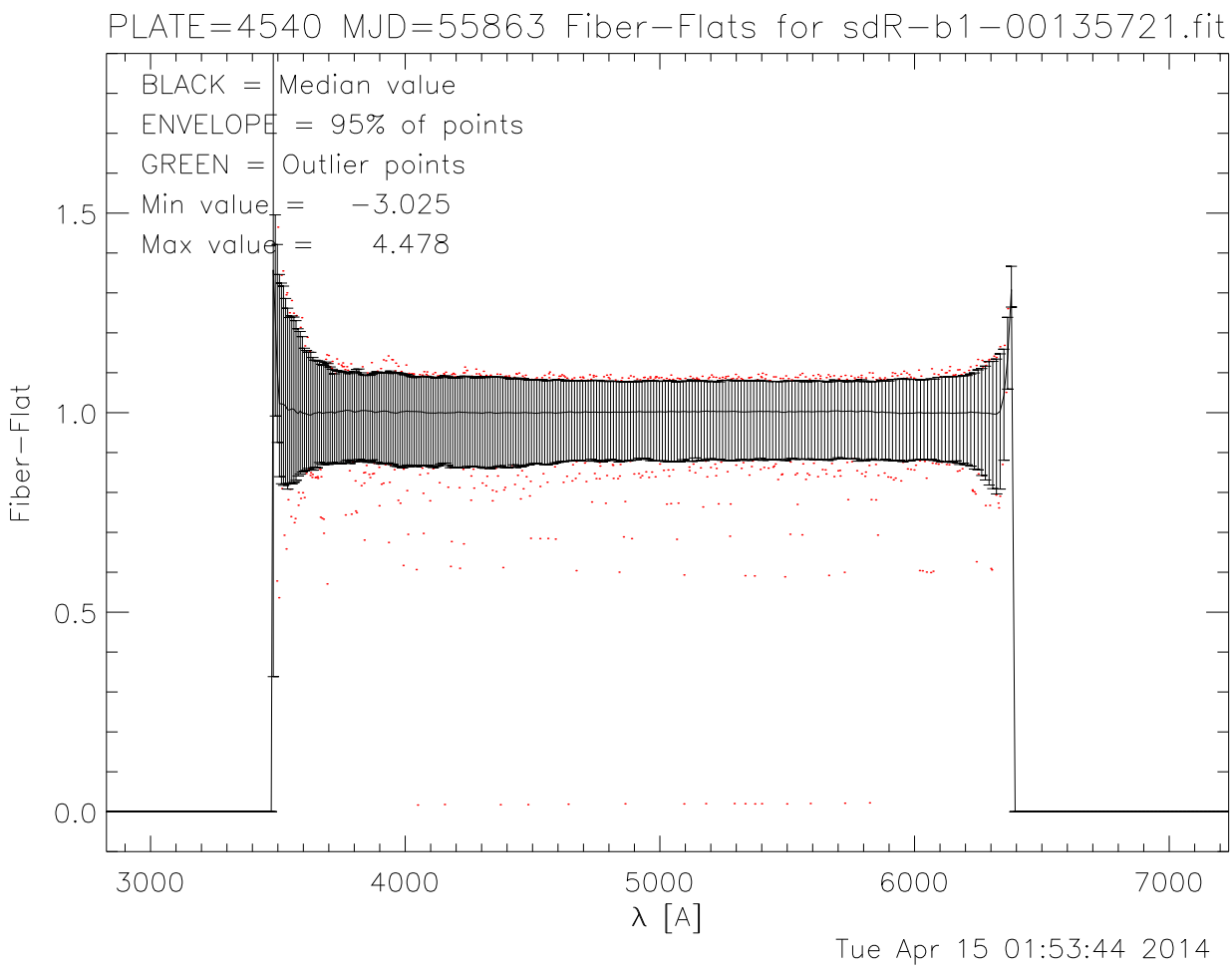

PLATE=4540 MJD=55863 sdR-b1-00135722.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
500
0
-500
-1000
5570
5575
5580
5585
5590
λ [A]

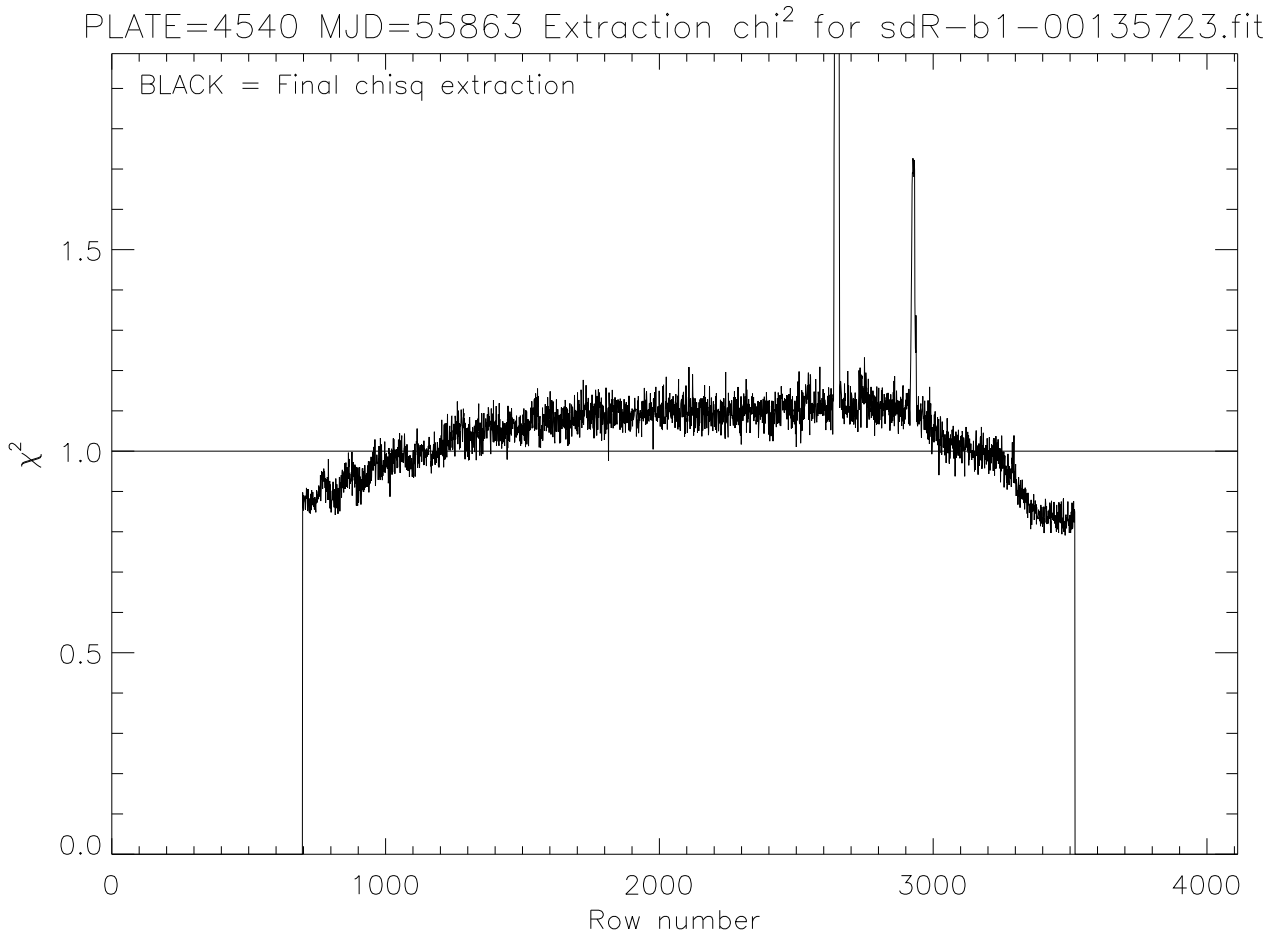
Number of sky fibers = 45

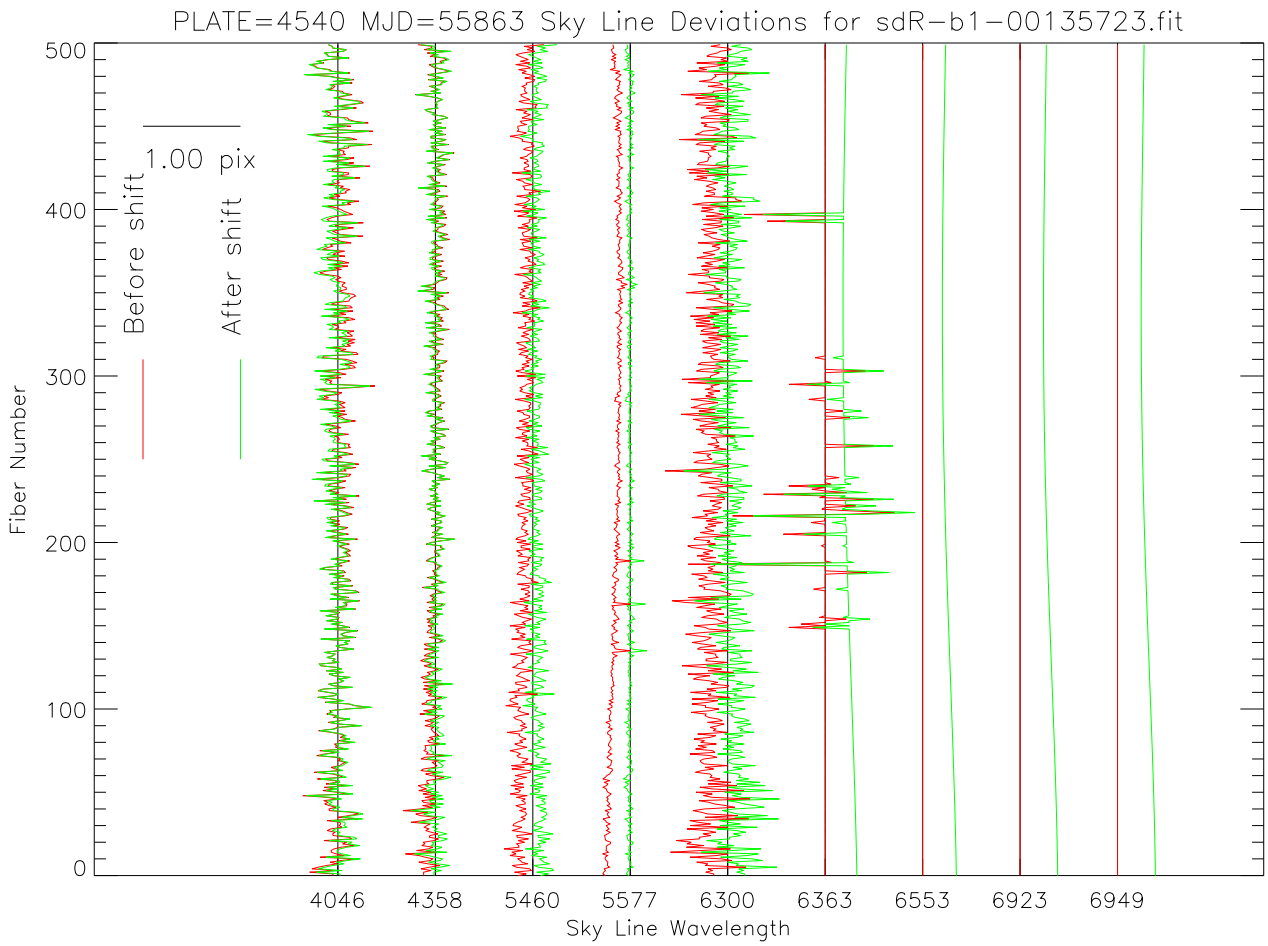


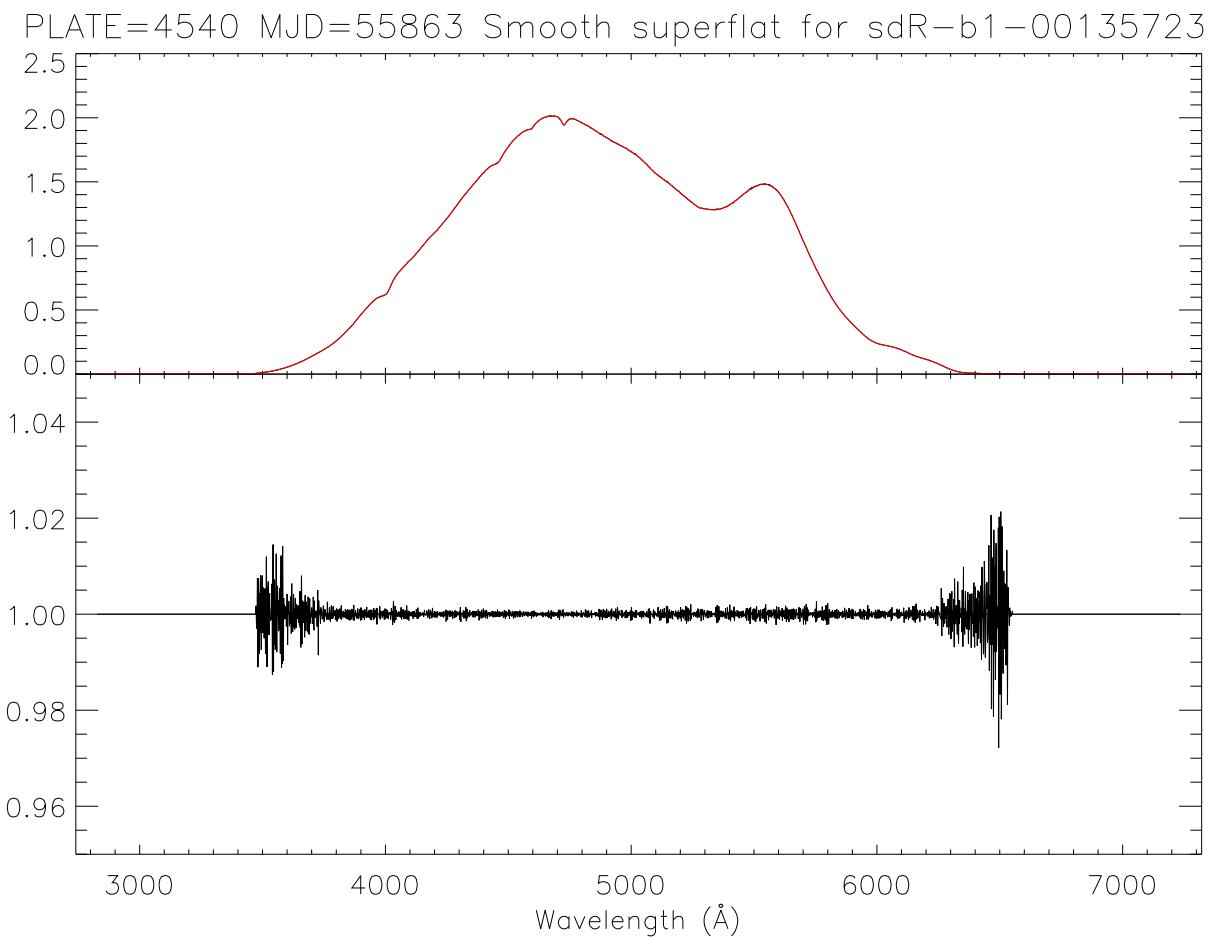

PLATE=4540 MJD=55863 sdR-b1-00135722.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 13.10 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

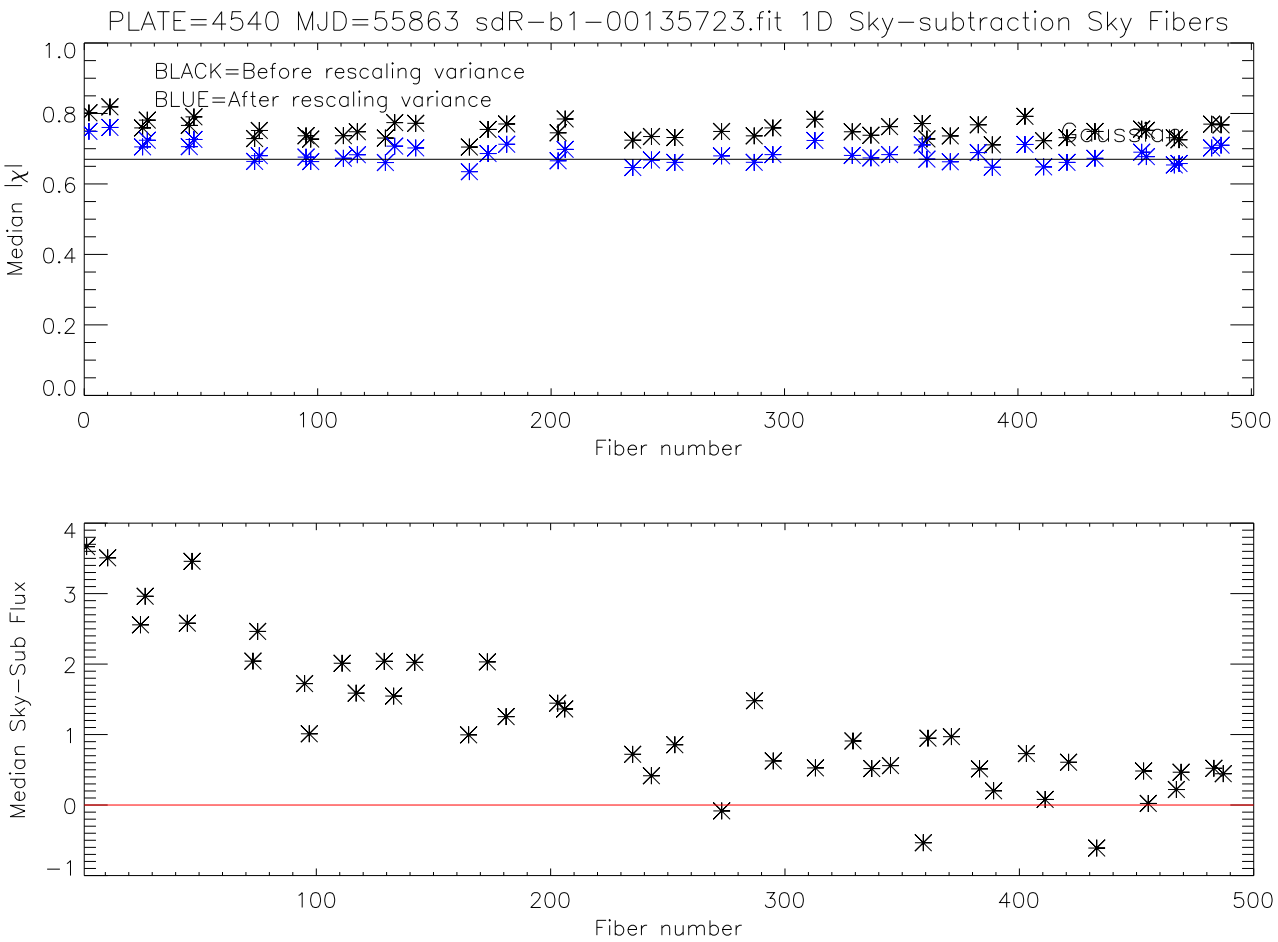

PLATE=4540 MJD=55863 sdR-b1-00135722.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.57 %
Fiber number
Focal Distance [mm]
Airmass

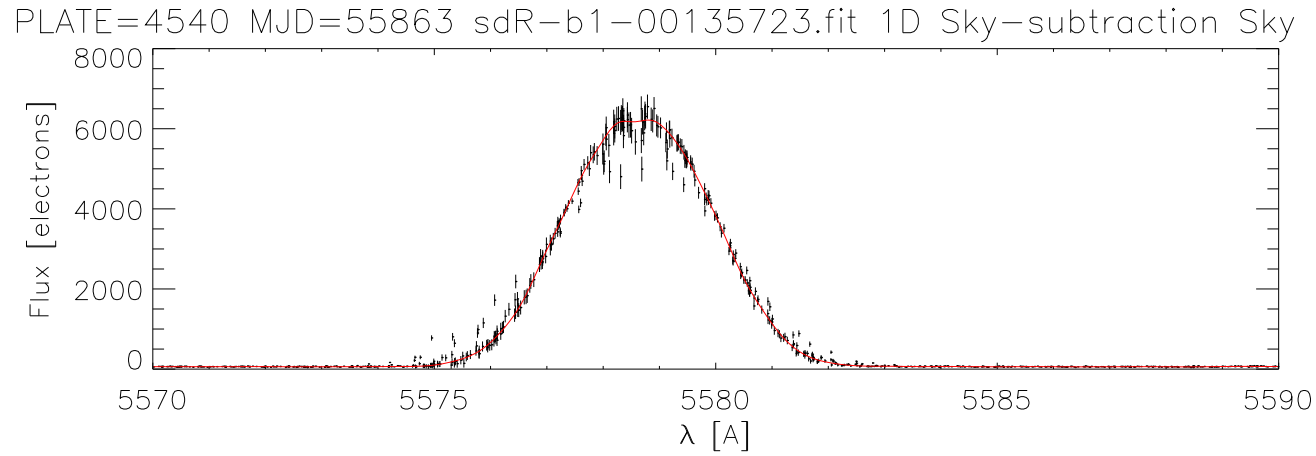

PLATE=4540 MJD=55863 Fiber−Flats for sdR−b1−00135721.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −3.025
Max value = 4.478
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Tue Apr 15 01:53:44 2014

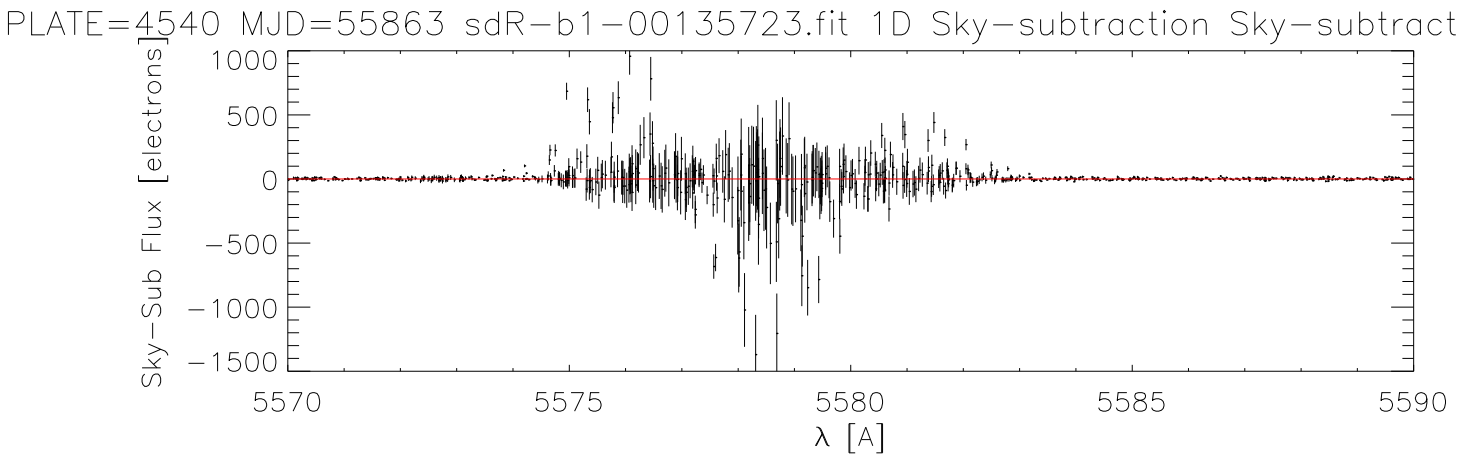

PLATE=4540 MJD=55863 Extraction chi^2 for sdR−b1−00135723.fit
BLACK = Final chisq extraction
χ^2
0.0
0.5
1.0
1.5
0
1000
2000
3000
4000
Row number


PLATE=4540 MJD=55863 Sky Line Deviations for sdR-b1-00135723.fit
1.00 pix
Before shift
After shift
Fiber Number
0
100
200
300
400
500
4046
4358
5460
5577
6300
6363
6553
6923
6949
Sky Line Wavelength

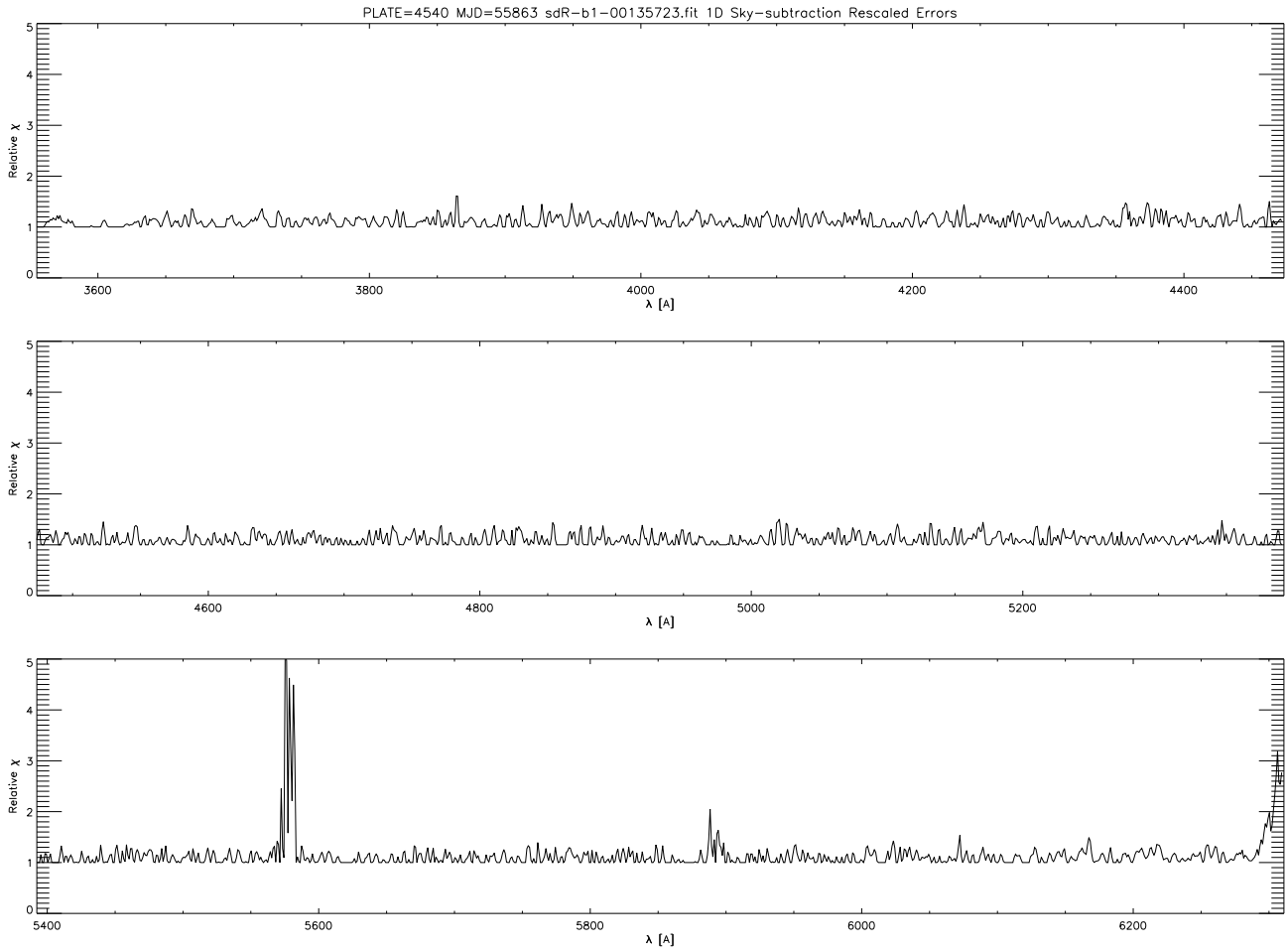

PLATE=4540 MJD=55863 Smooth superflat for sdR-b1-00135723.fit
2.5
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

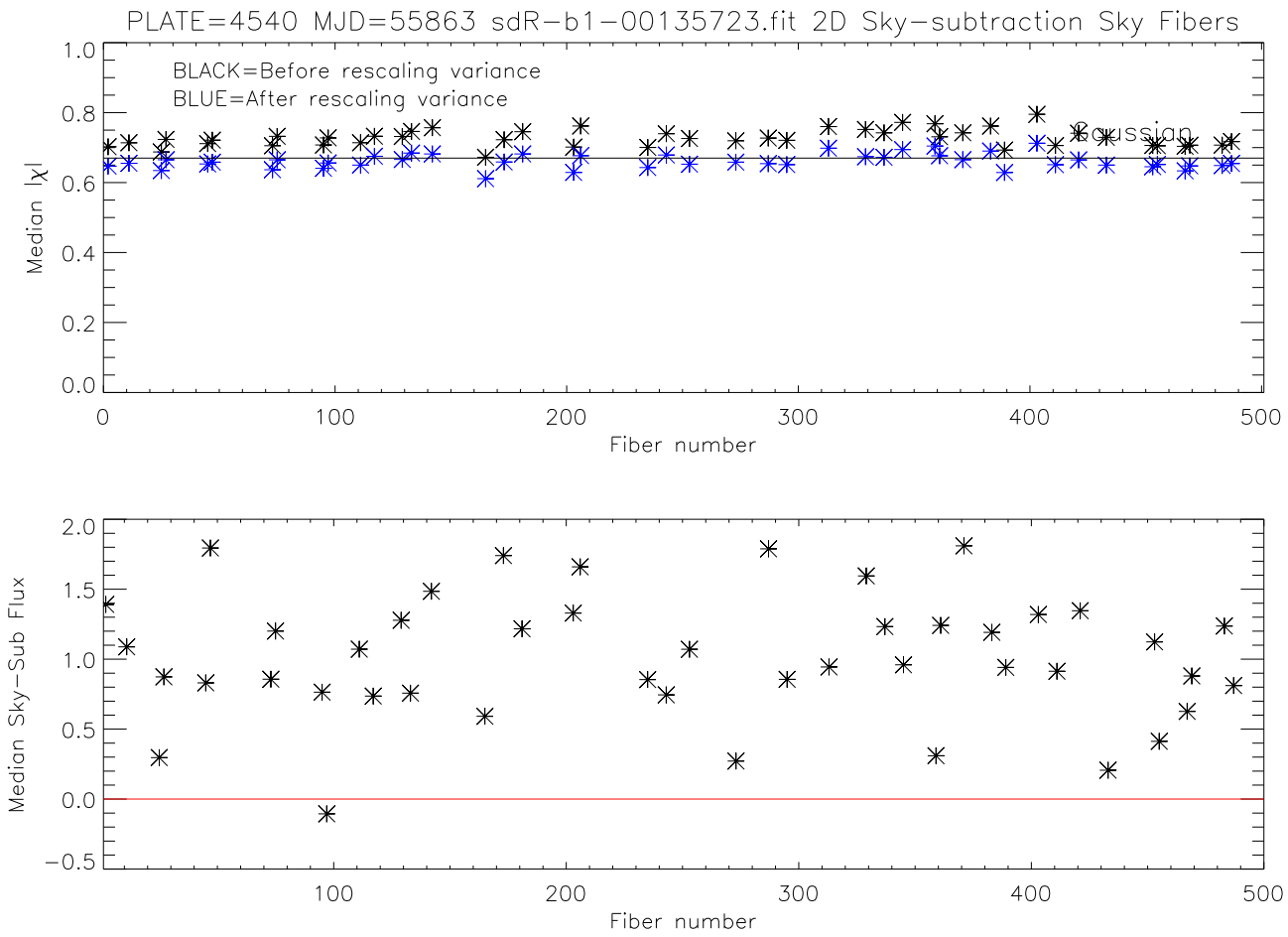

PLATE=4540 MJD=55863 sdR-b1-00135723.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

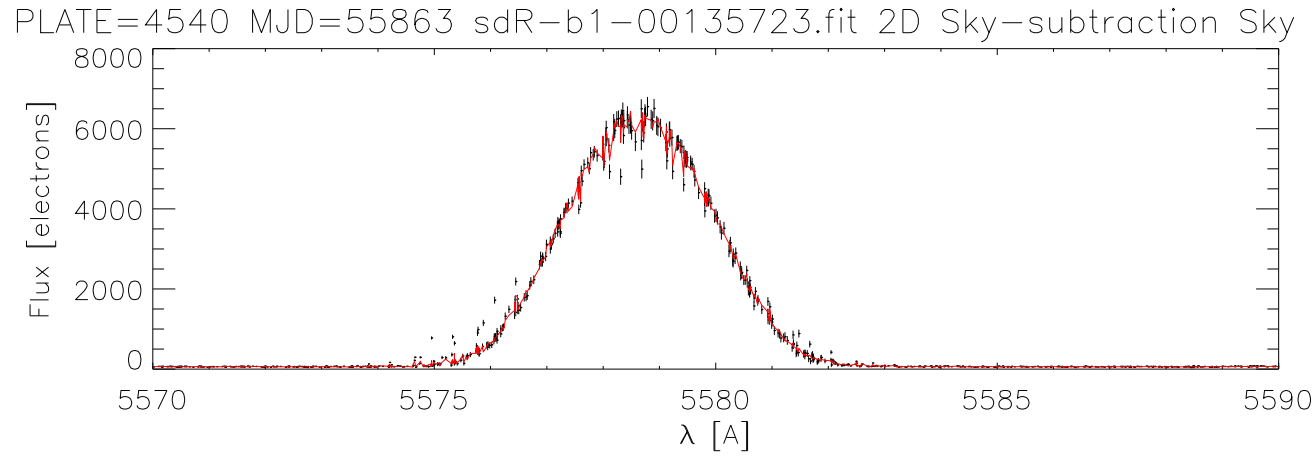

PLATE=4540 MJD=55863 sdR-b1-00135723.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

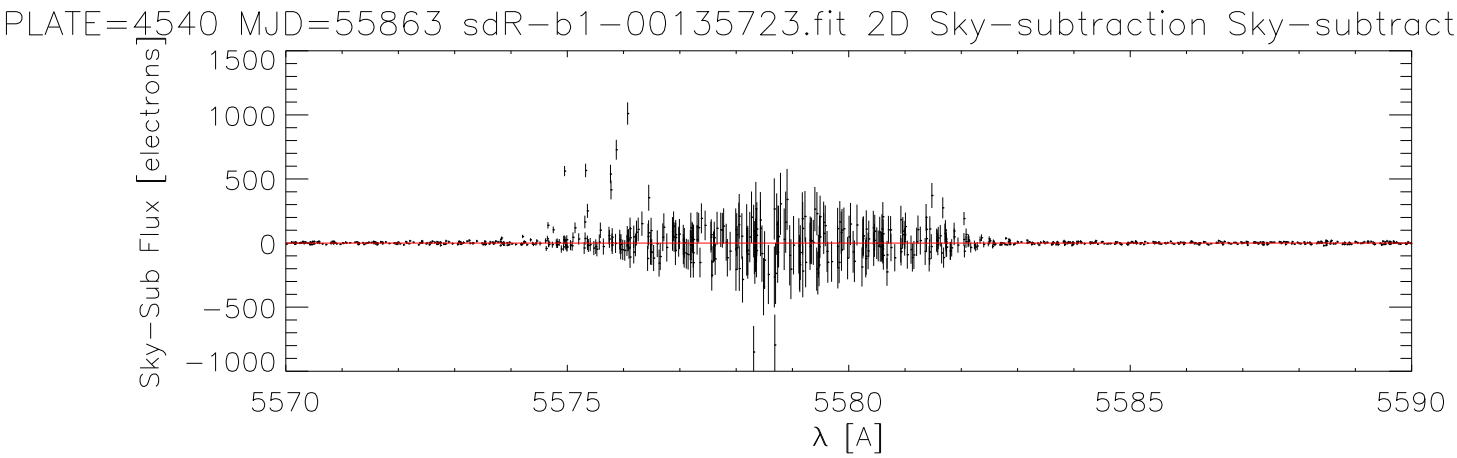

PLATE=4540 MJD=55863 sdR-b1-00135723.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
500
0
-500
-1000
-1500
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 45

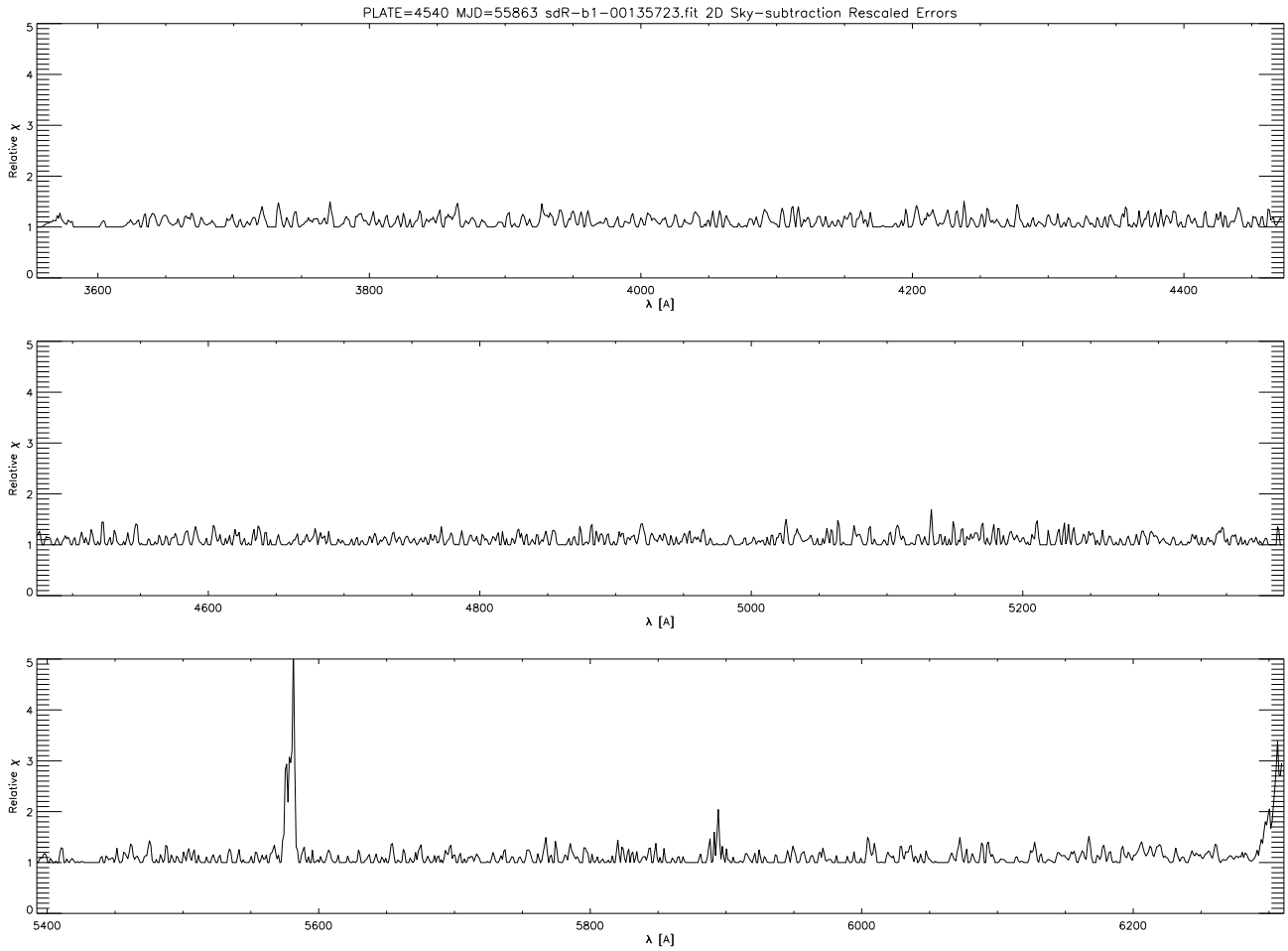


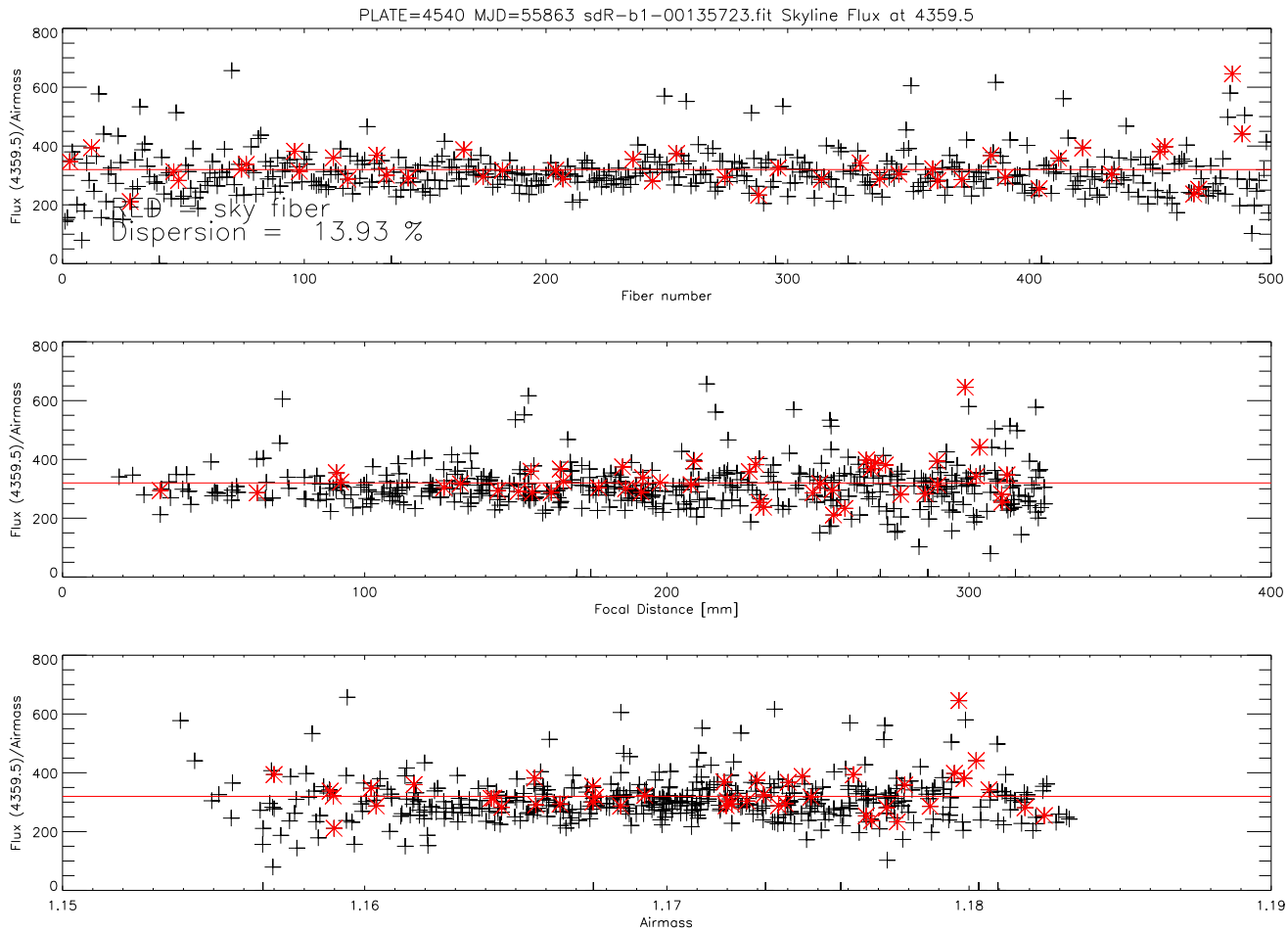

PLATE=4540 MJD=55863 sdR-b1-00135723.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

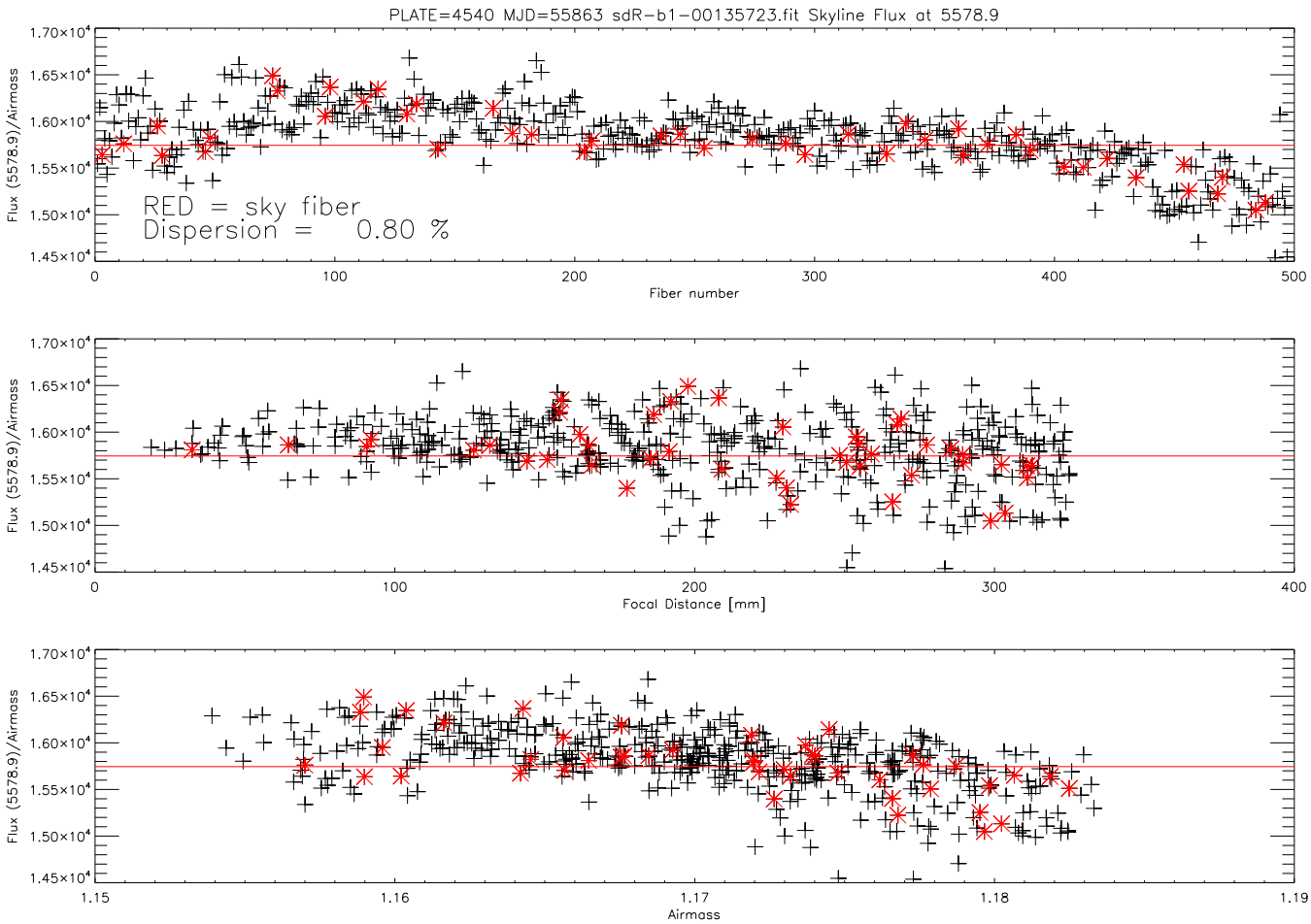

PLATE=4540 MJD=55863 sdR-b1-00135723.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]


PLATE=4540 MJD=55863 sdR-b1-00135723.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
-1000
5570
5575
5580
5585
5590
λ [A]

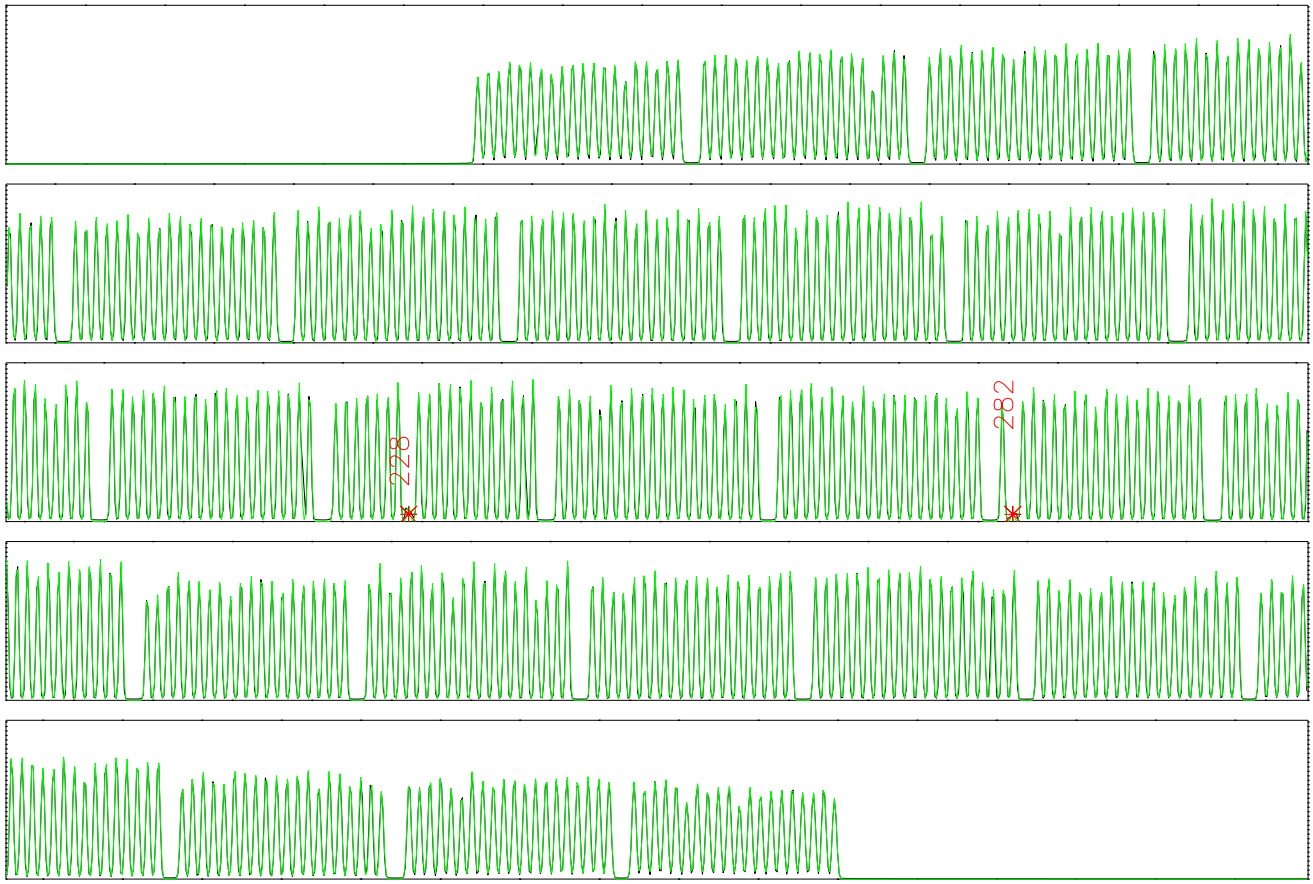
Number of sky fibers = 45

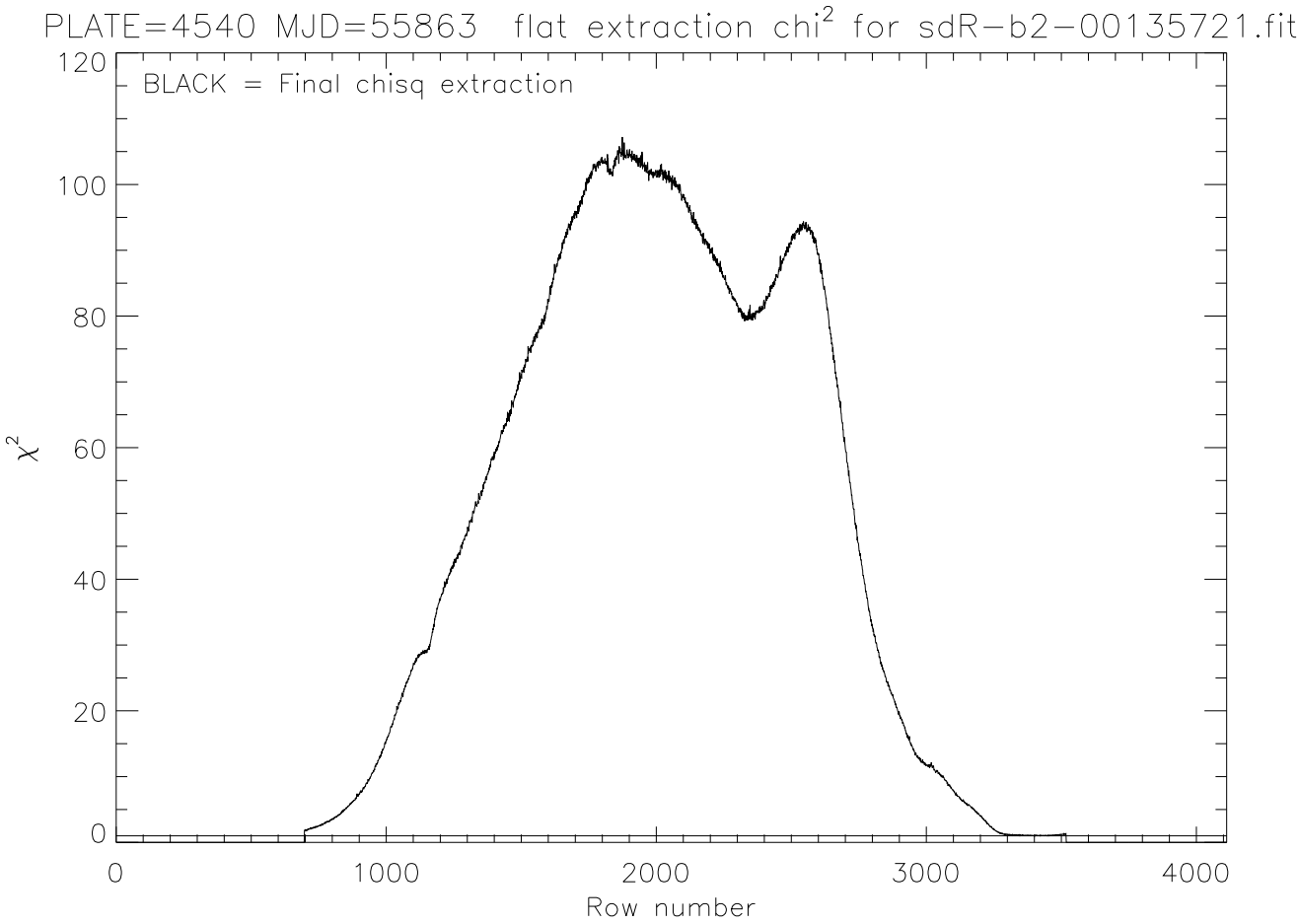


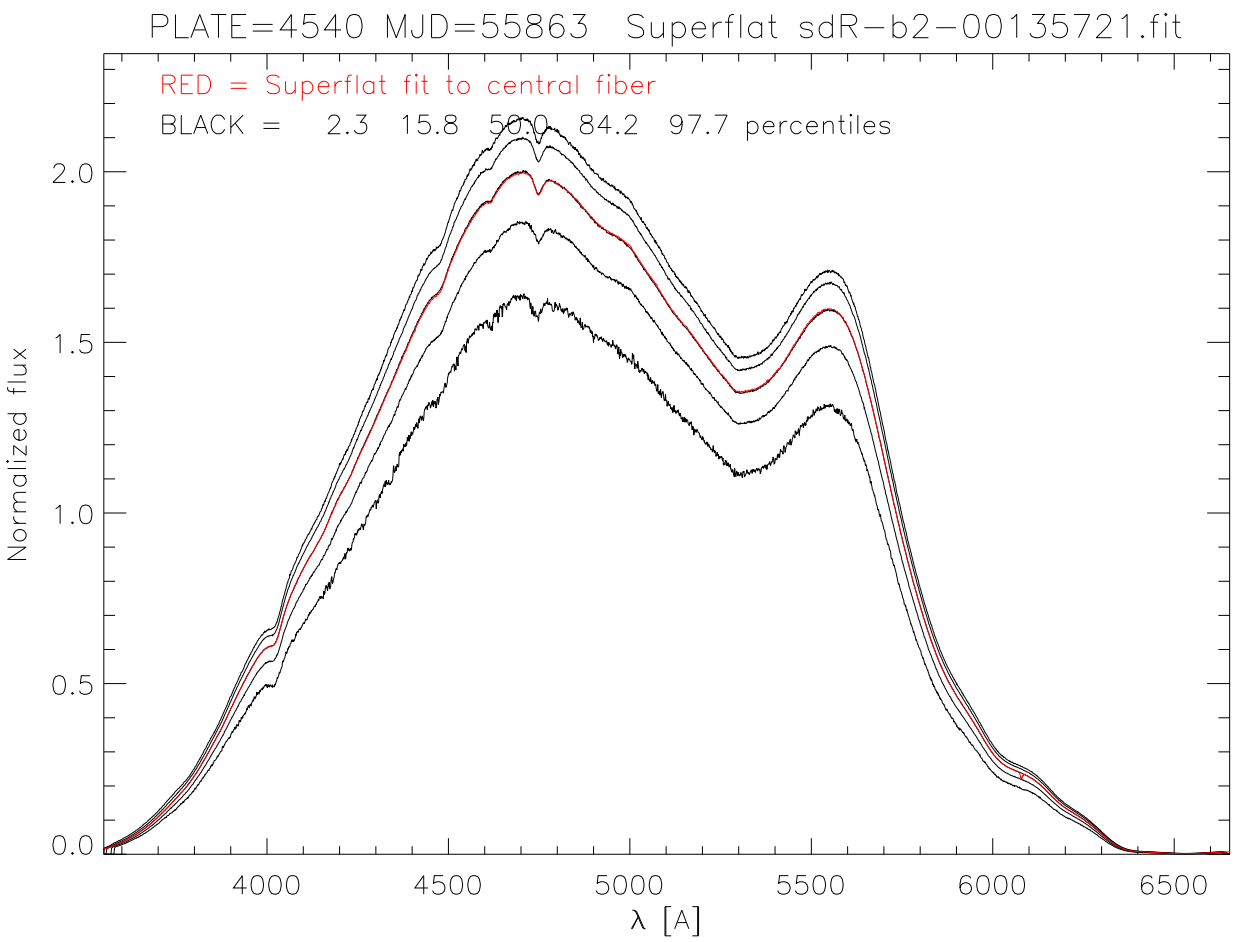

PLATE=4540 MJD=55863 sdR-b1-00135723.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
Red = sky fiber
Dispersion = 13.93 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

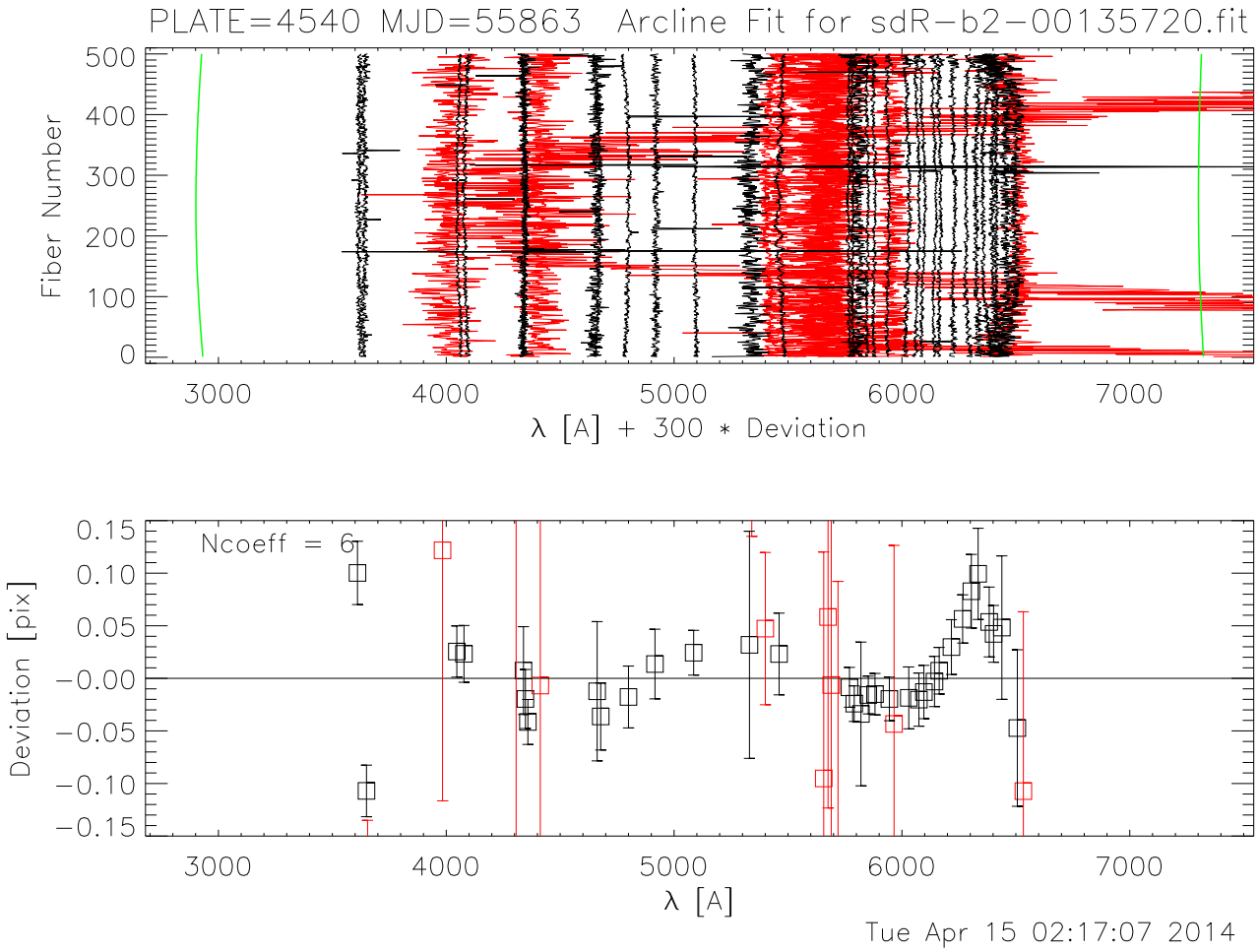

PLATE=4540 MJD=55863 sdR-b1-00135723.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 0.80 %
Fiber number
Focal Distance [mm]
Airmass

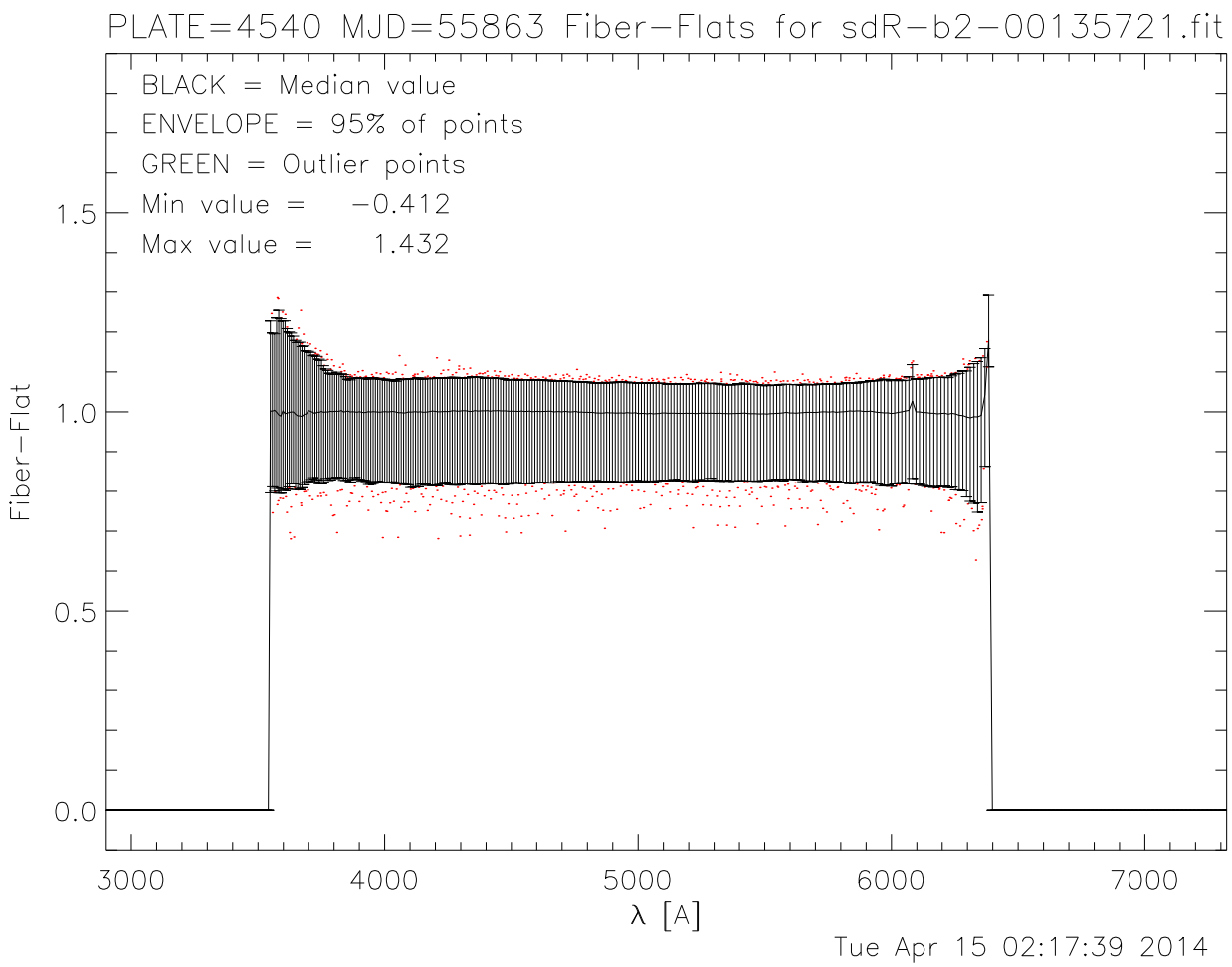
PLATE=4540 MJD=55863 Traces sdR-b2-00135721.fit

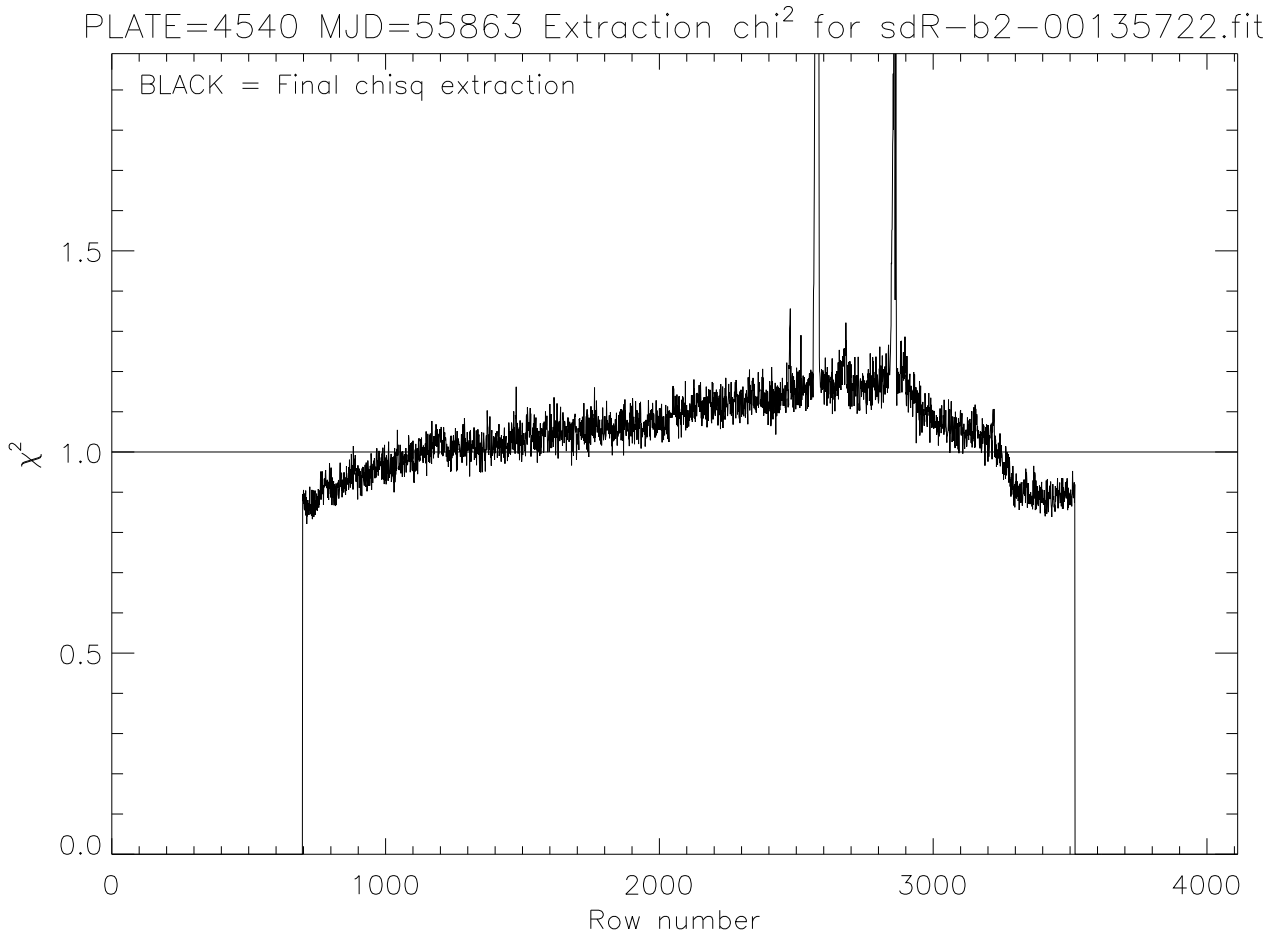


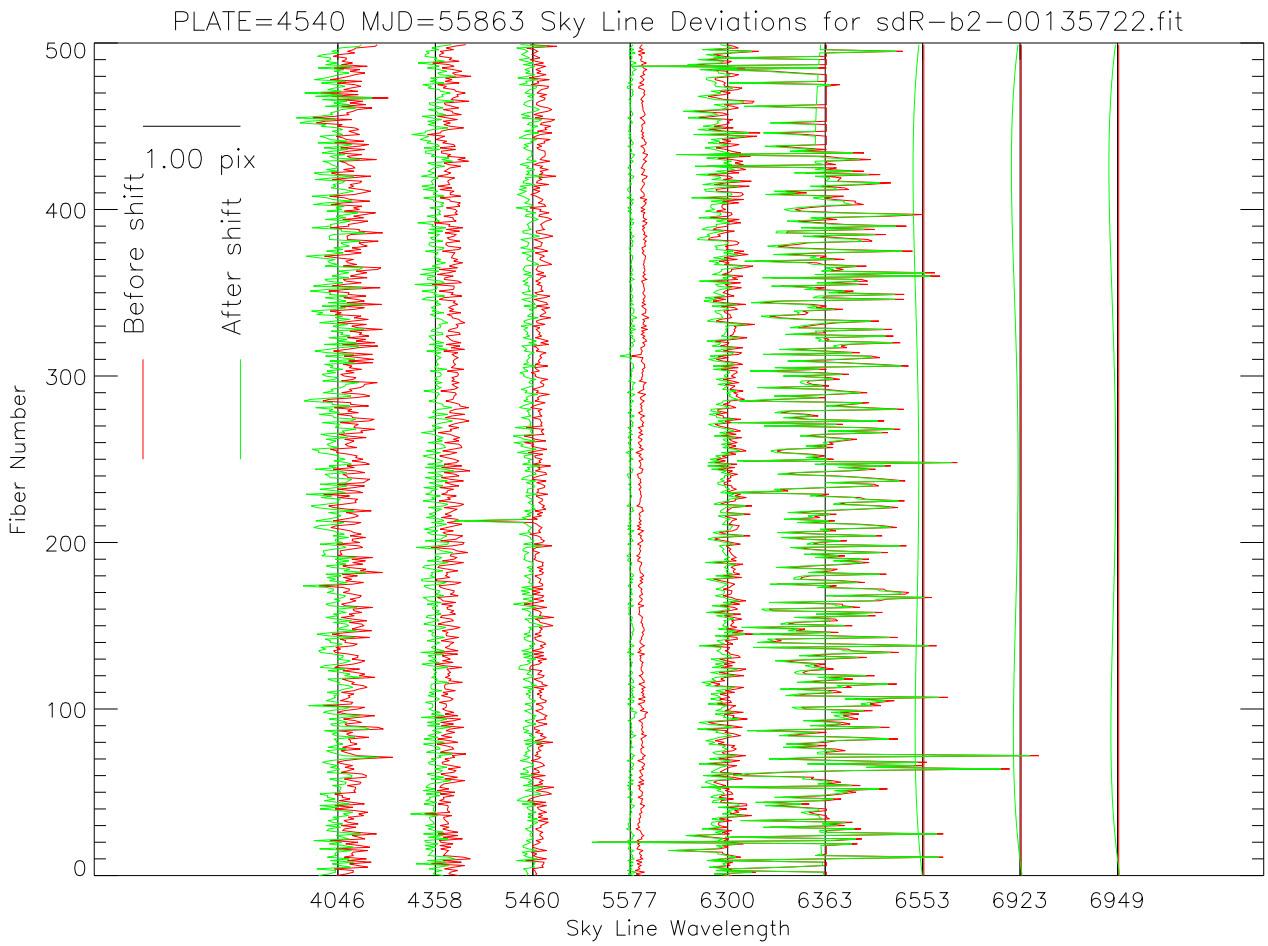

PLATE=4540 MJD=55863 flat extraction chi^2 for sdR−b2−00135721.fit
BLACK = Final chisq extraction
χ^2
Row number
0
20
40
60
80
100
120
0
1000
2000
3000
4000

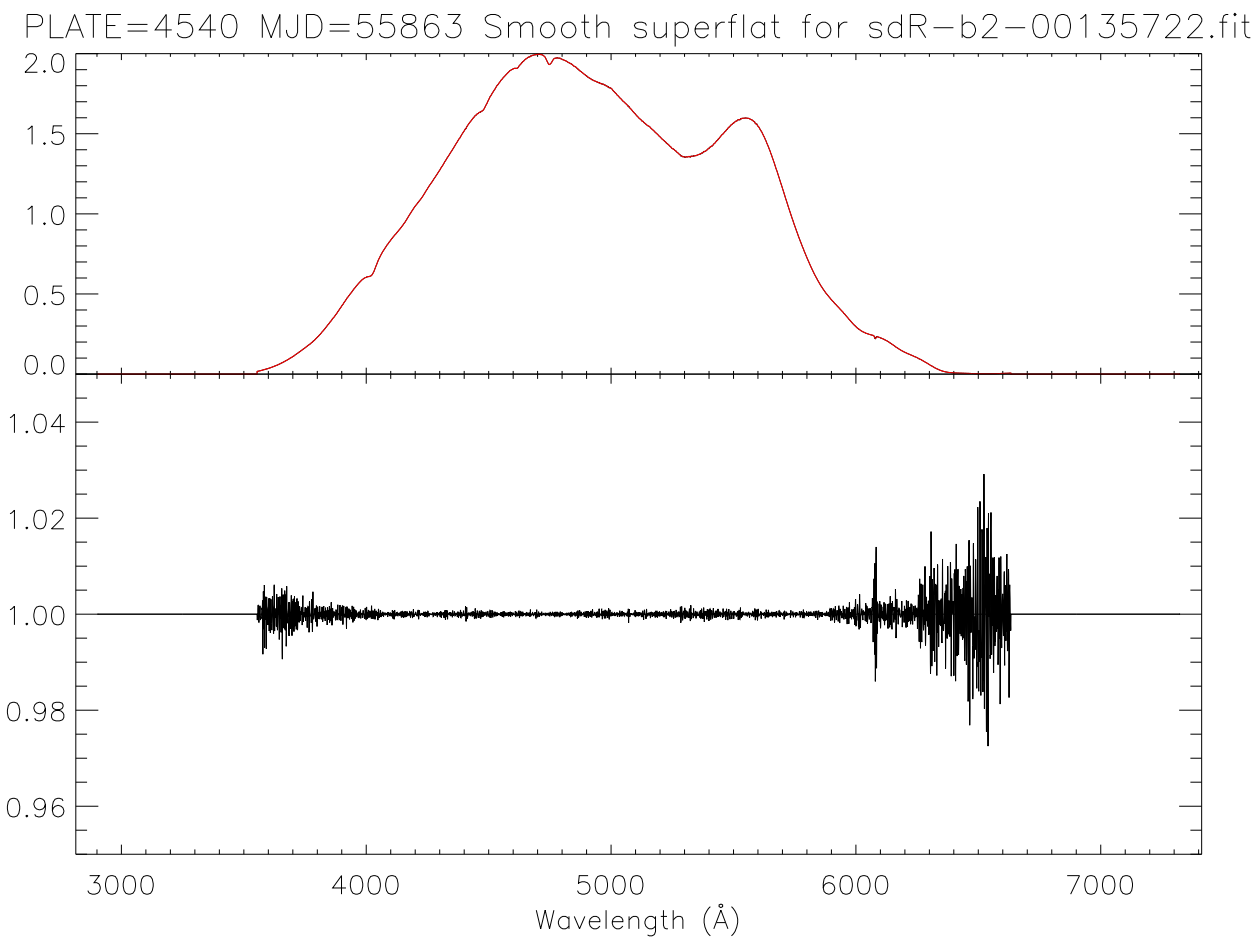

PLATE=4540 MJD=55863 Superflat sdR-b2-00135721.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
0.0
0.5
1.0
1.5
2.0
4000
4500
5000
5500
6000
6500
λ [A]

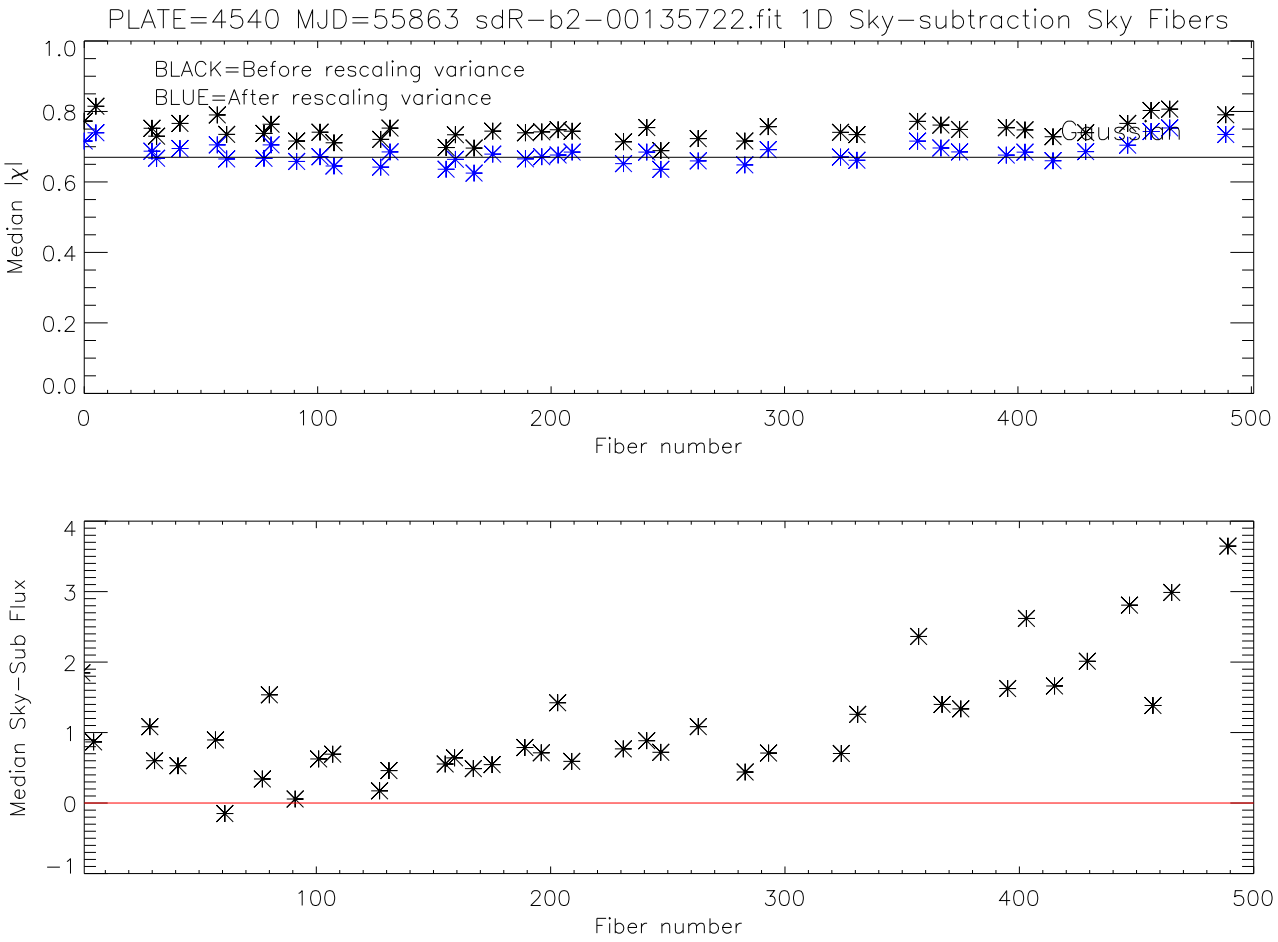

PLATE=4540 MJD=55863 Arcline Fit for sdR-b2-00135720.fit
Fiber Number
500
400
300
200
100
0
3000
4000
5000
6000
7000
λ [A] + 300 * Deviation
Ncoeff = 6
Deviation [pix]
0.15
0.10
0.05
−0.00
−0.05
−0.10
−0.15
3000
4000
5000
6000
7000
λ [A]
Tue Apr 15 02:17:07 2014

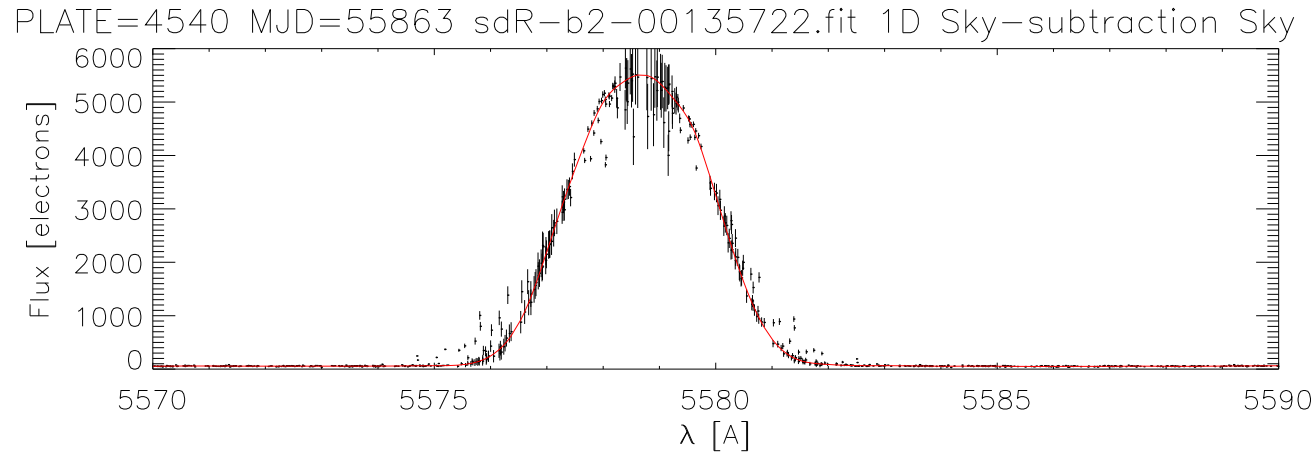

PLATE=4540 MJD=55863 Fiber−Flats for sdR−b2−00135721.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −0.412
Max value = 1.432
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Tue Apr 15 02:17:39 2014

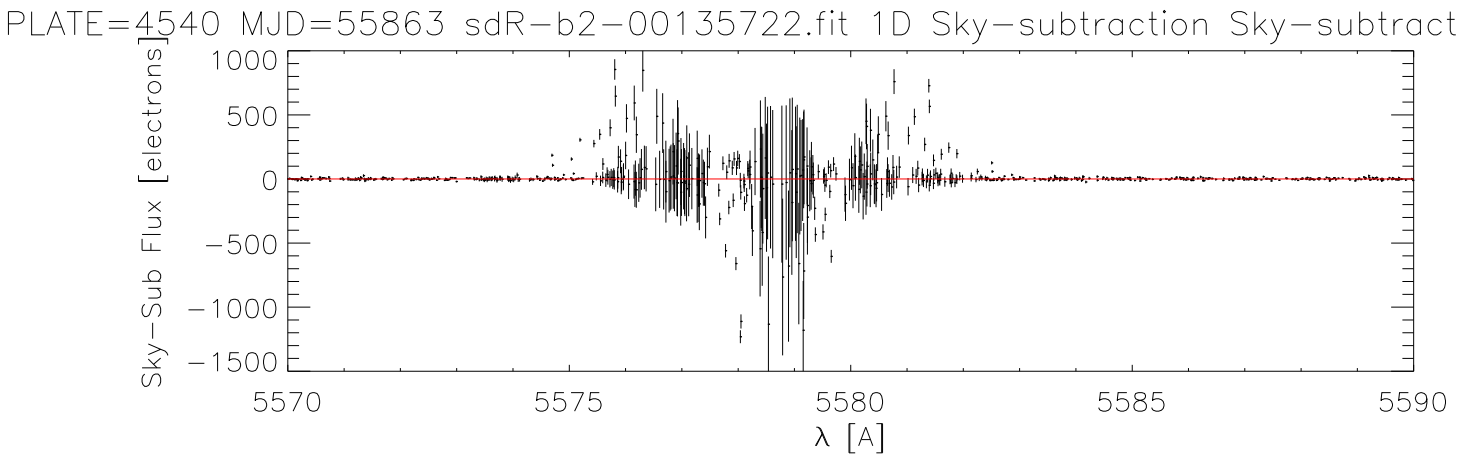

PLATE=4540 MJD=55863 Extraction chi^2 for sdR-b2-00135722.fit
BLACK = Final chisq extraction
χ^2
0.0
0.5
1.0
1.5
0
1000
2000
3000
4000
Row number


PLATE=4540 MJD=55863 Sky Line Deviations for sdR-b2-00135722.fit
1.00 pix
Before shift
After shift
Fiber Number
500
400
300
200
100
0
4046
4358
5460
5577
6300
6363
6553
6923
6949
Sky Line Wavelength

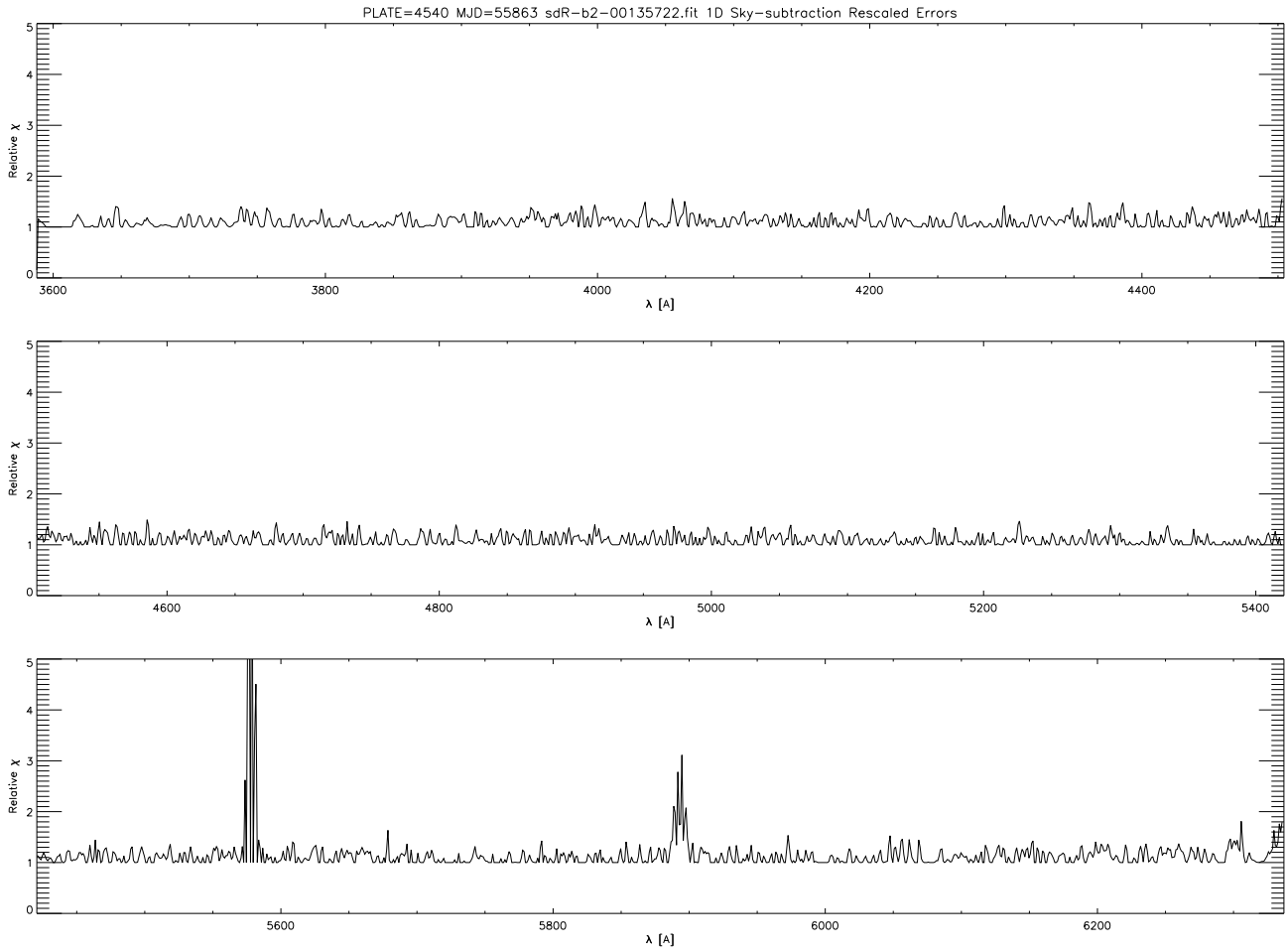

PLATE=4540 MJD=55863 Smooth superflat for sdR-b2-00135722.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

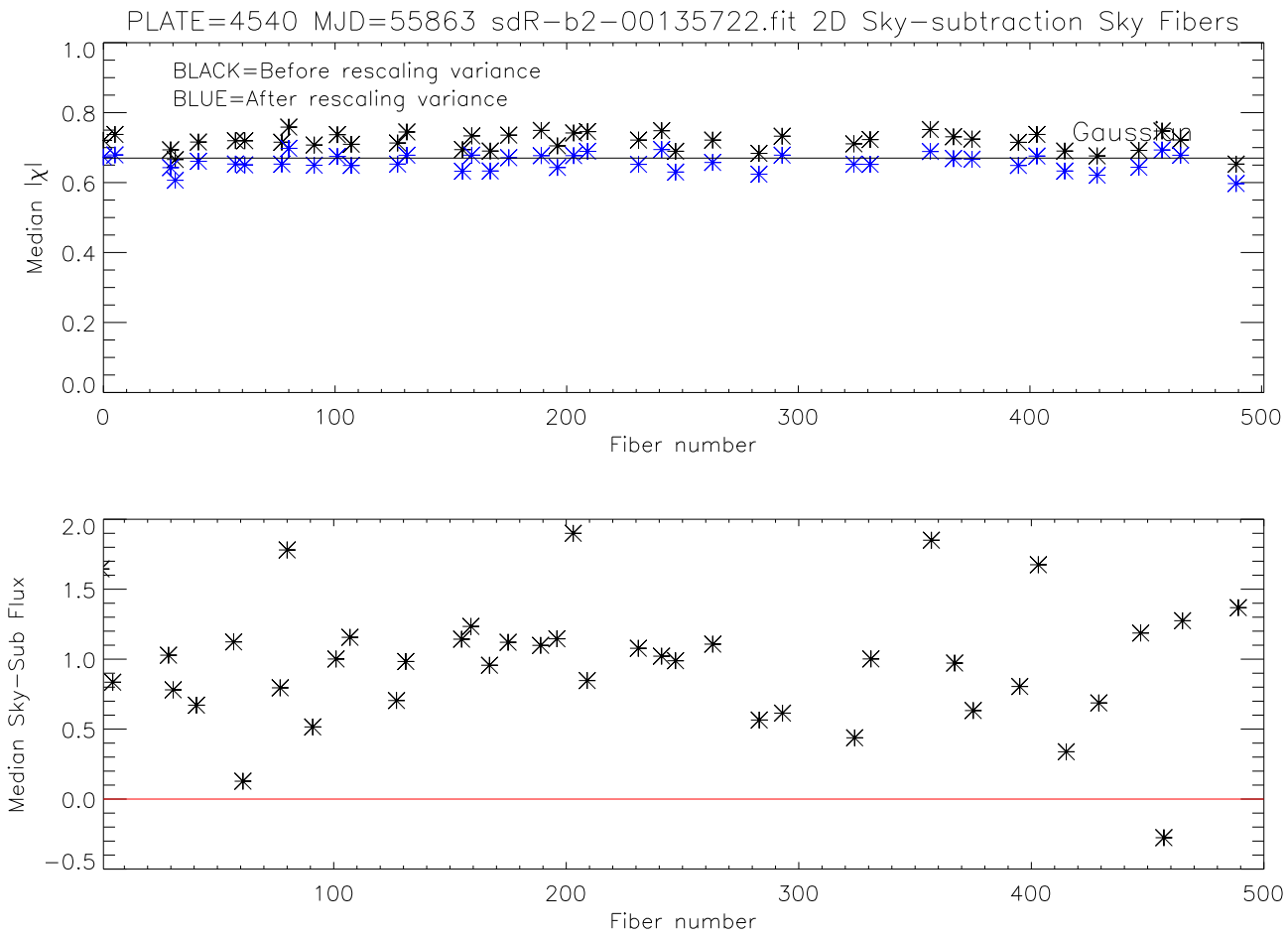

PLATE=4540 MJD=55863 sdR-b2-00135722.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number


PLATE=4540 MJD=55863 sdR-b2-00135722.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

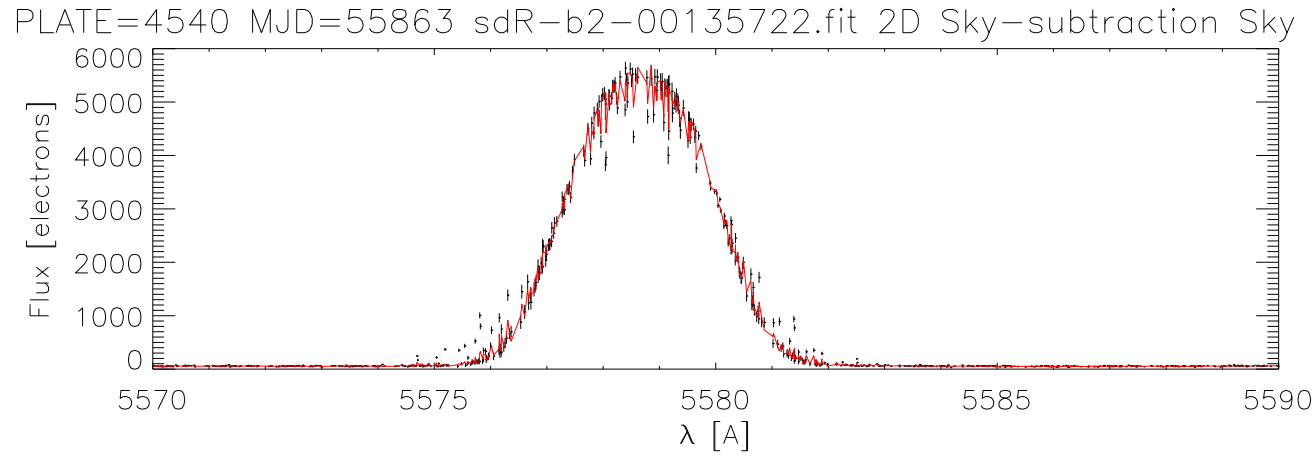

PLATE=4540 MJD=55863 sdR-b2-00135722.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
500
0
-500
-1000
-1500
5570
5575
5580
5585
5590
λ [A]

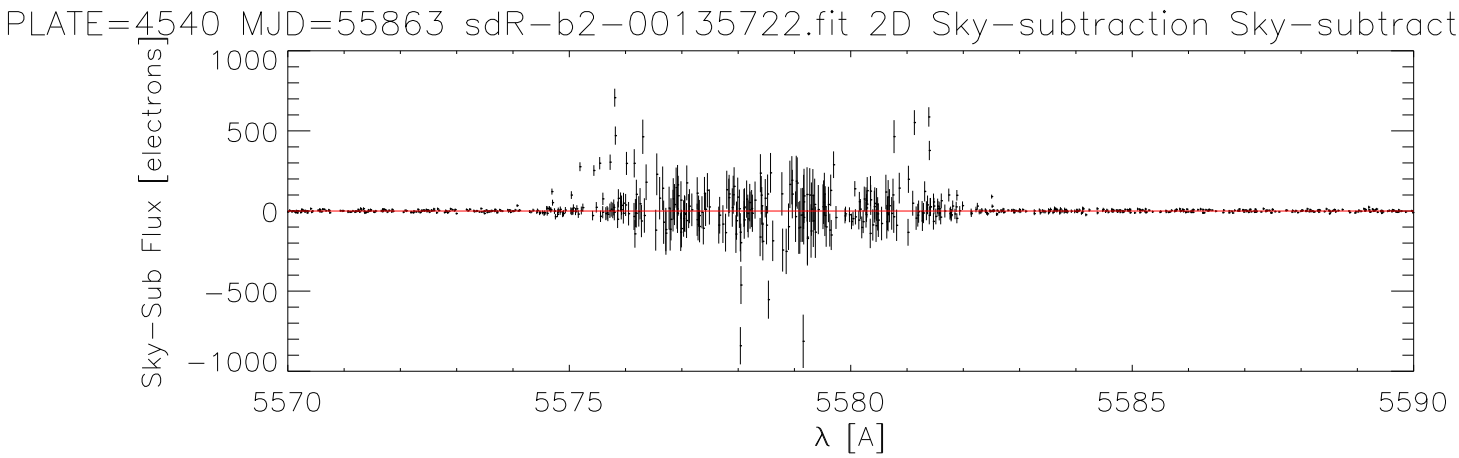
Number of sky fibers = 41



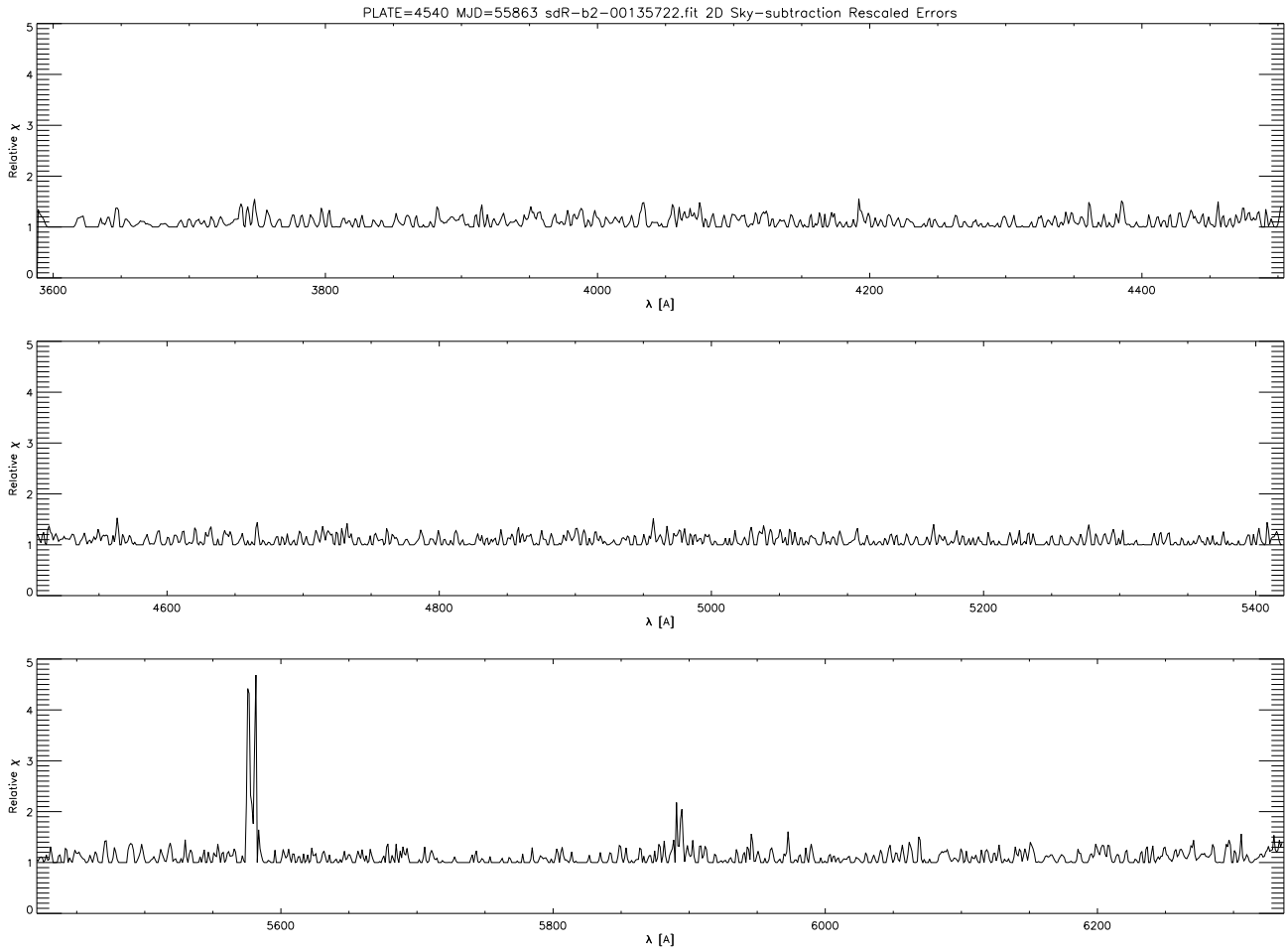

PLATE=4540 MJD=55863 sdR-b2-00135722.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number

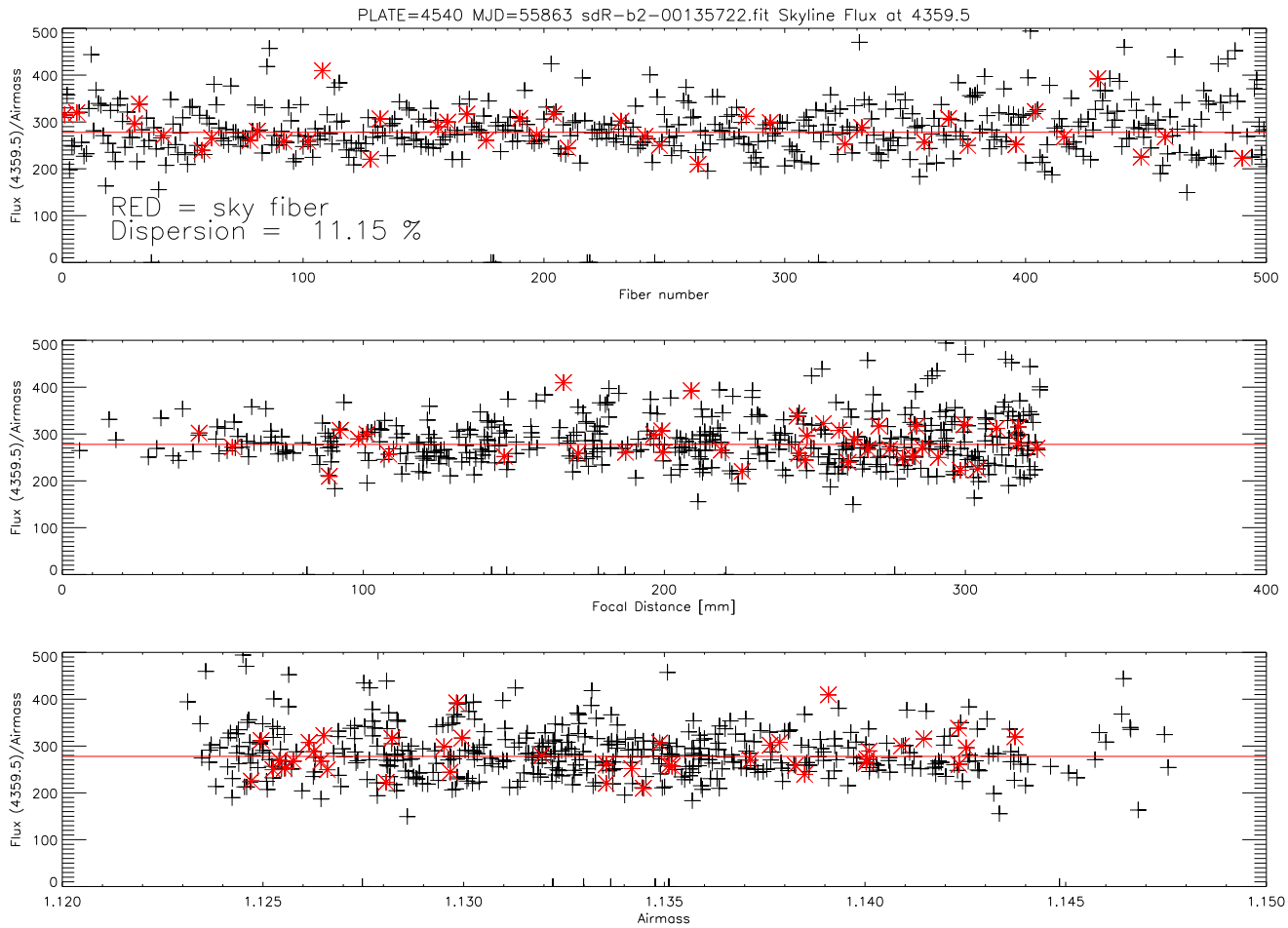
Median Sky-Sub Flux
Fiber number

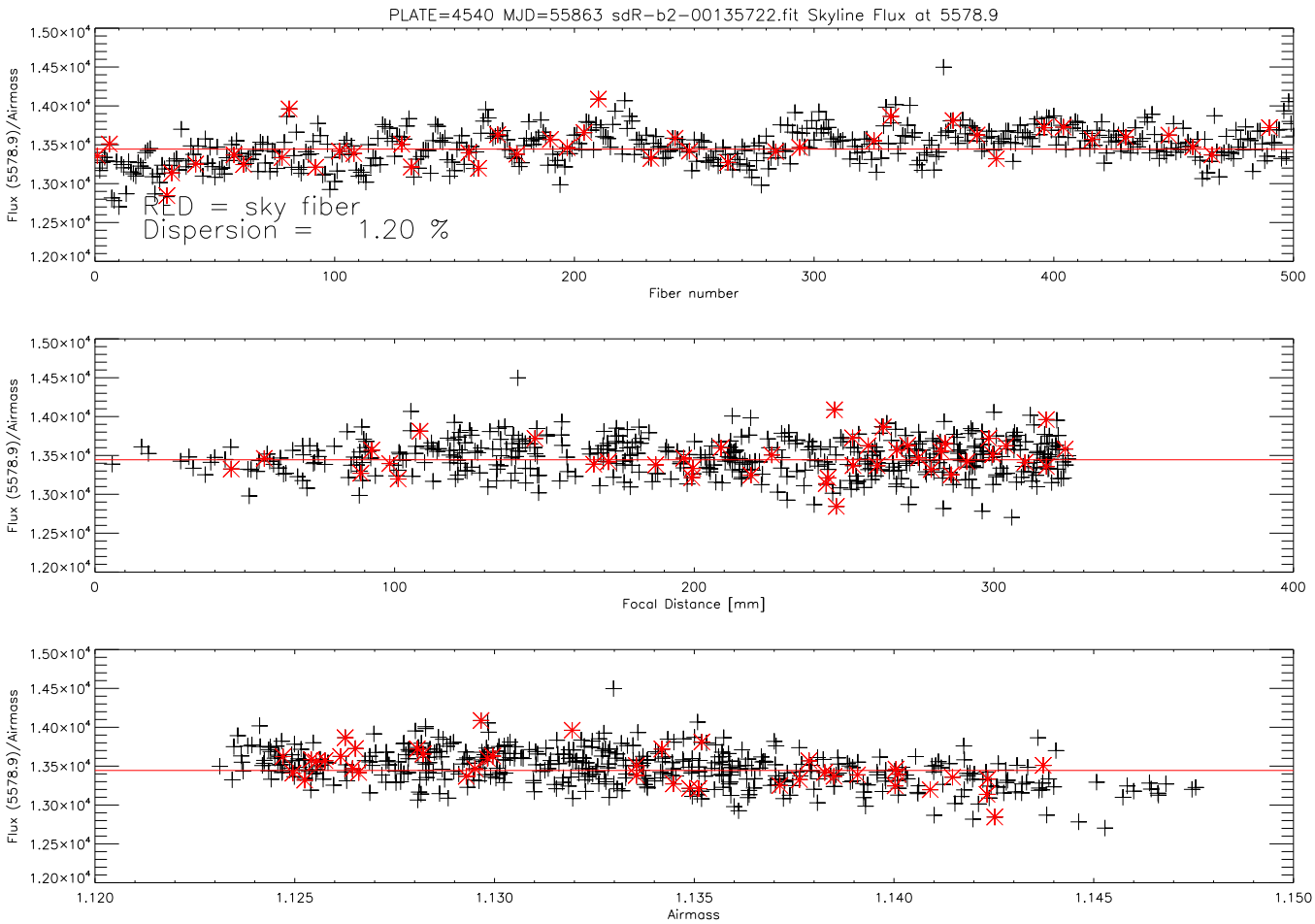

PLATE=4540 MJD=55863 sdR-b2-00135722.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

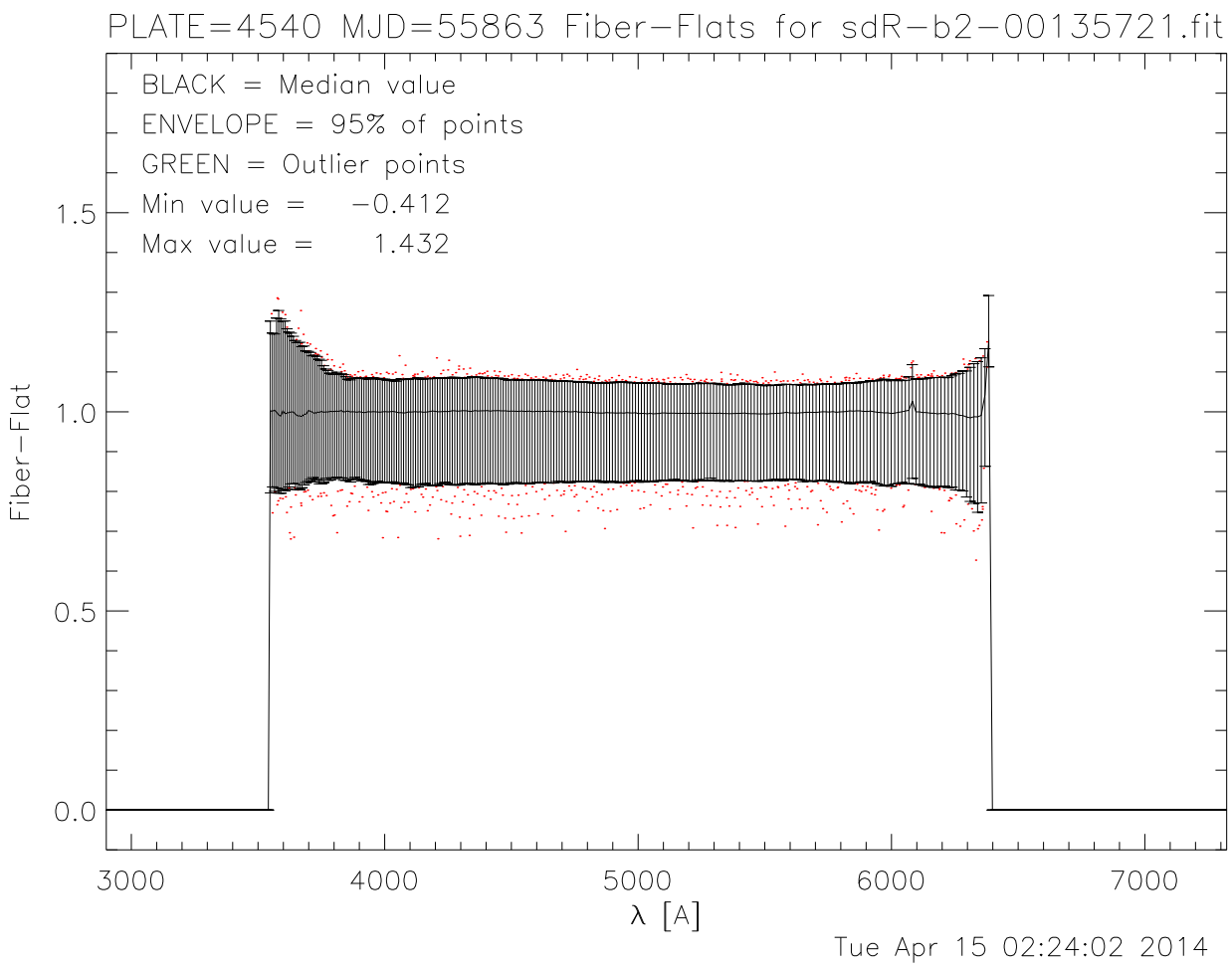

PLATE=4540 MJD=55863 sdR-b2-00135722.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
500
0
-500
-1000
5570
5575
5580
5585
5590
λ [A]

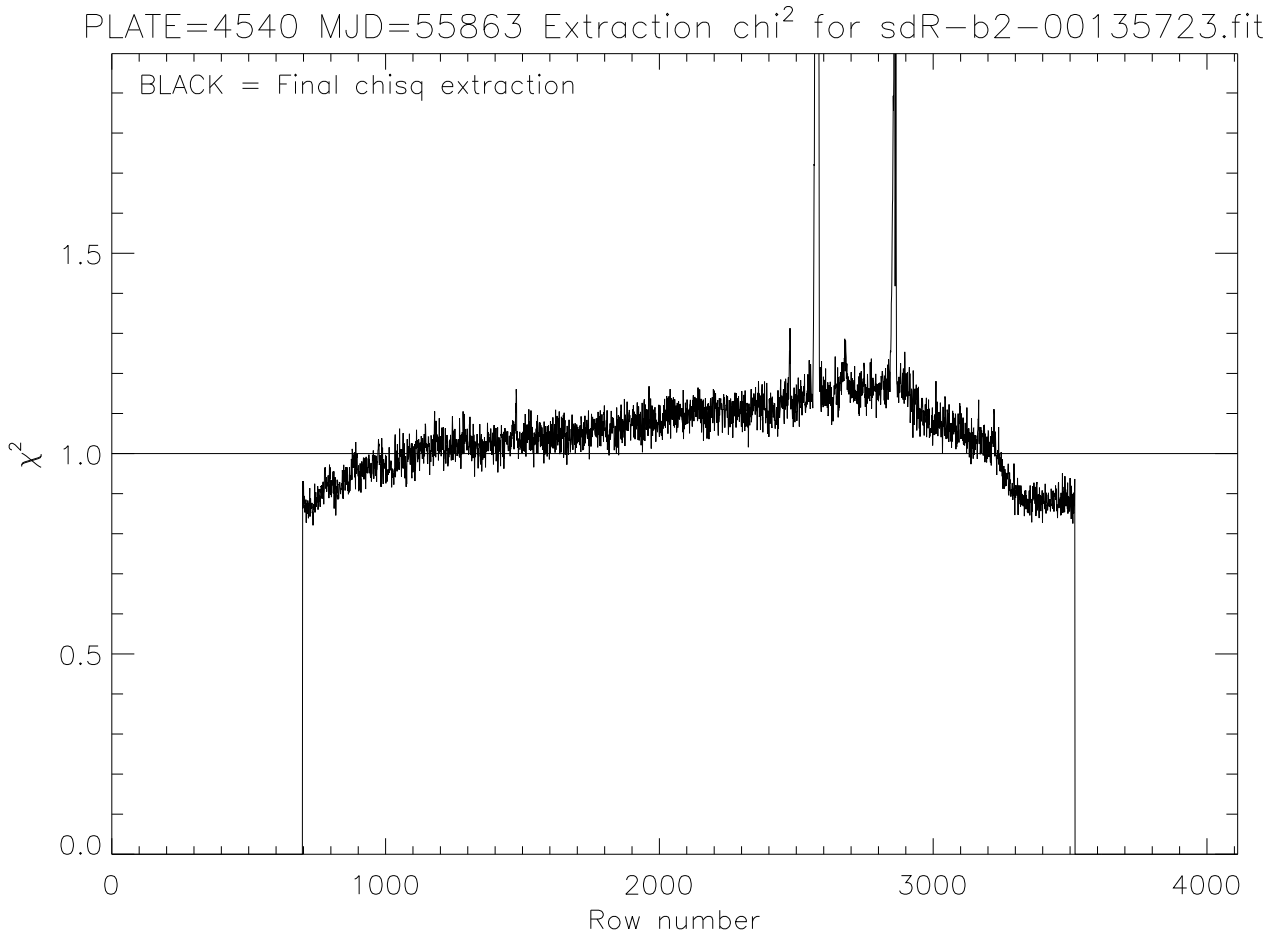
Number of sky fibers = 41

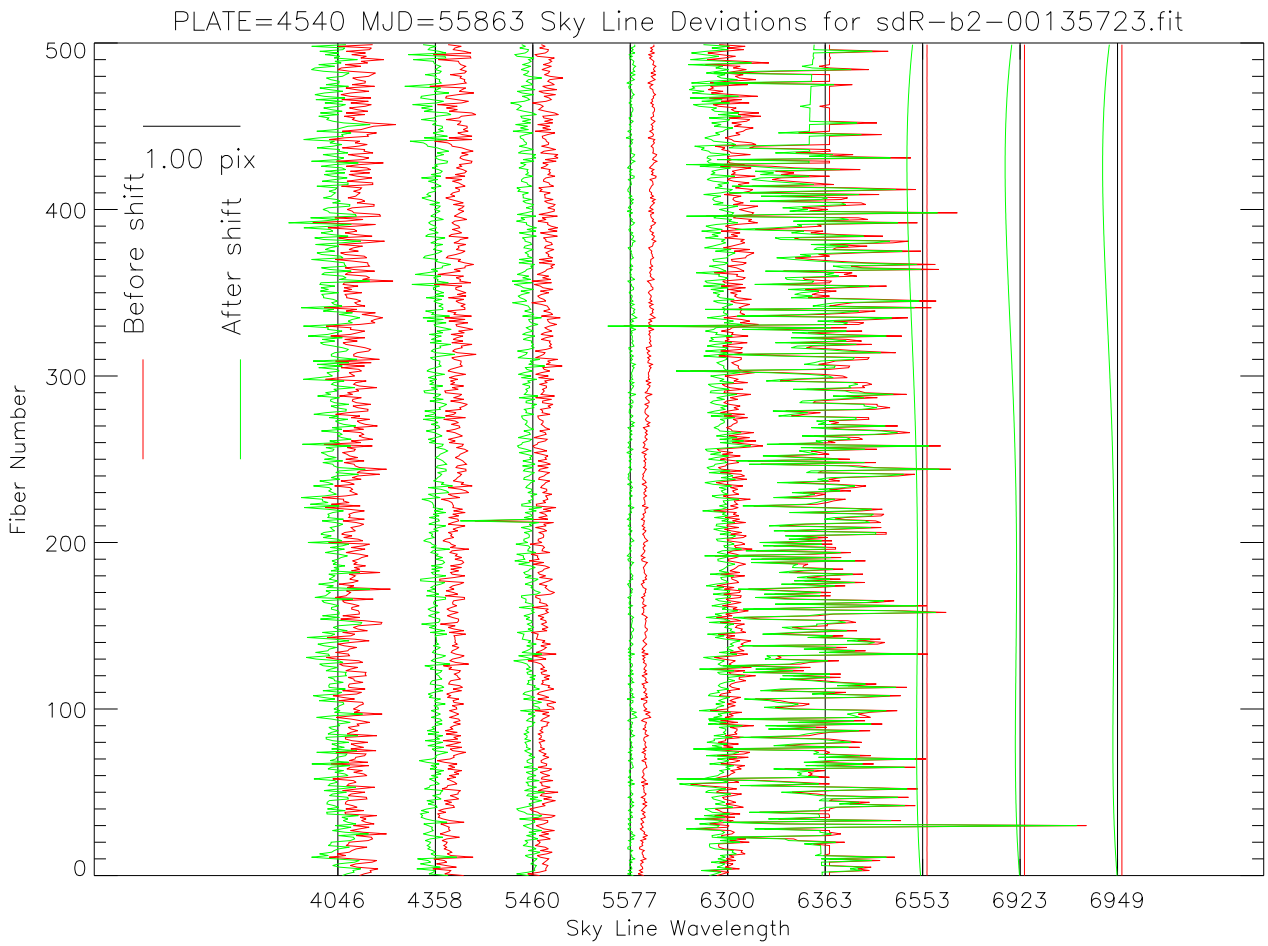


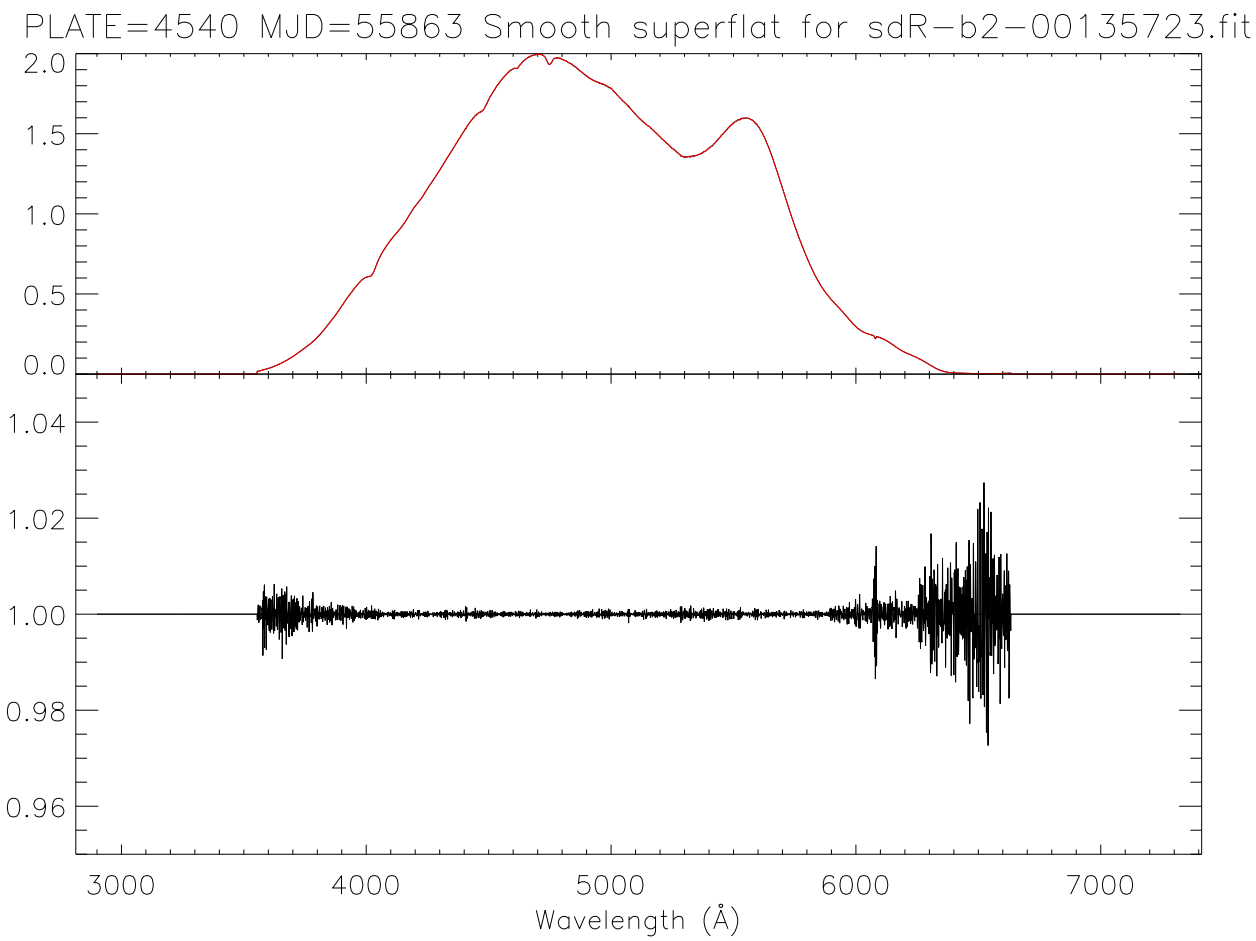

PLATE=4540 MJD=55863 sdR-b2-00135722.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 11.15 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

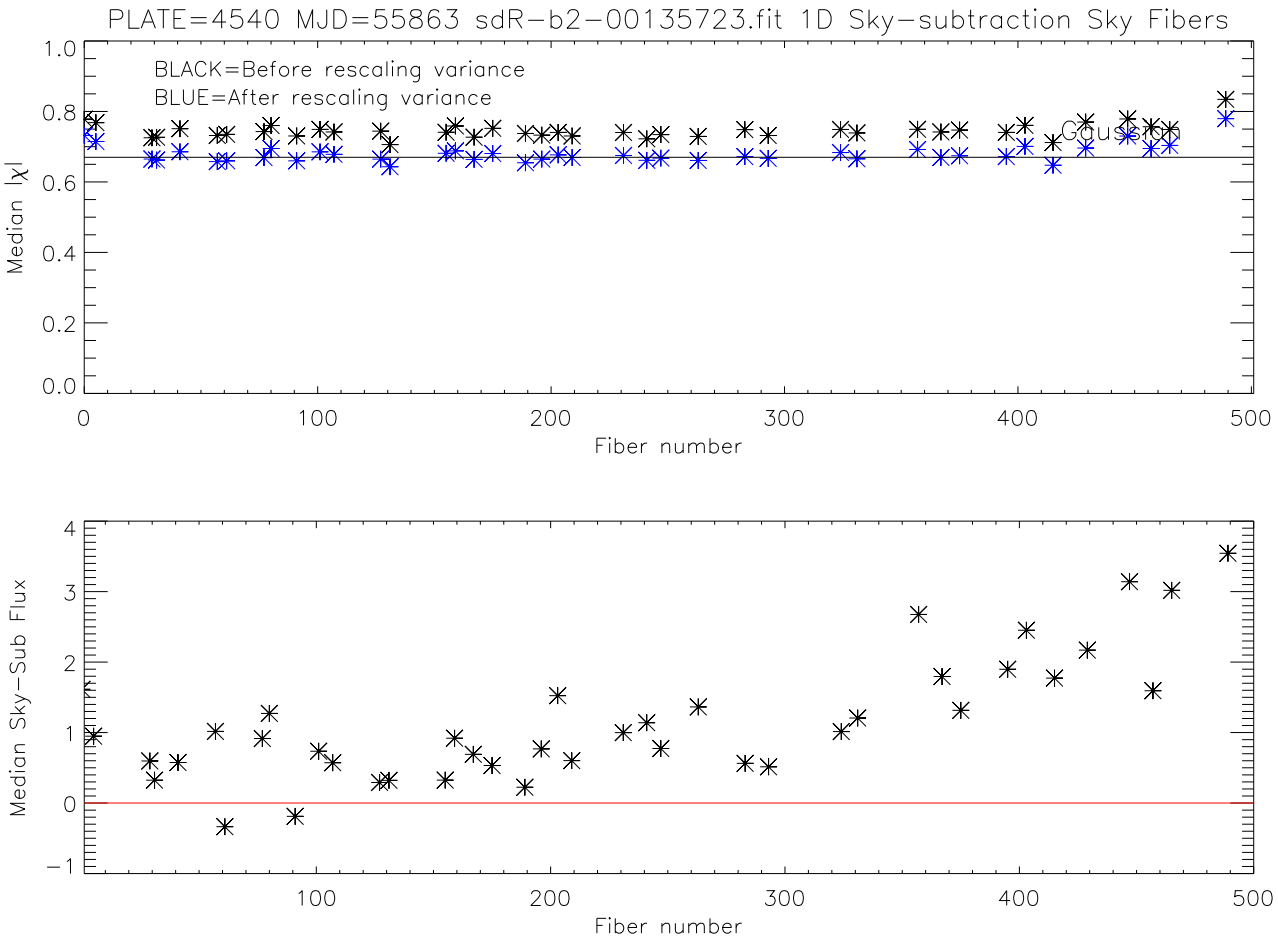

PLATE=4540 MJD=55863 sdR-b2-00135722.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
1.50×10^4
1.45×10^4
1.40×10^4
1.35×10^4
1.30×10^4
1.25×10^4
1.20×10^4
RED = sky fiber
Dispersion = 1.20 %
0
100
200
300
400
500
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
1.120
1.125
1.130
1.135
1.140
1.145
1.150
Airmass

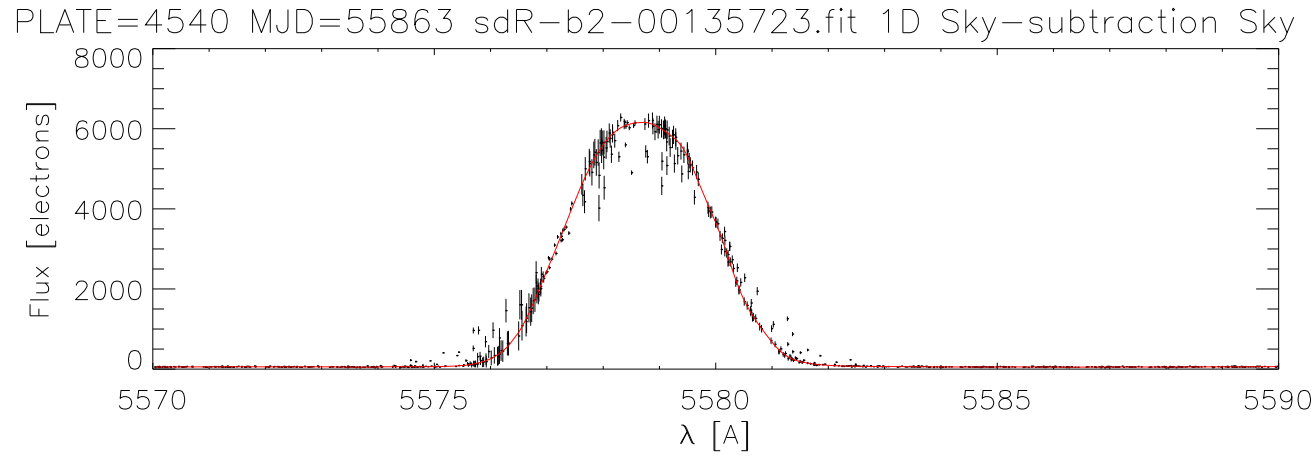

PLATE=4540 MJD=55863 Fiber−Flats for sdR−b2−00135721.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −0.412
Max value = 1.432
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Tue Apr 15 02:24:02 2014

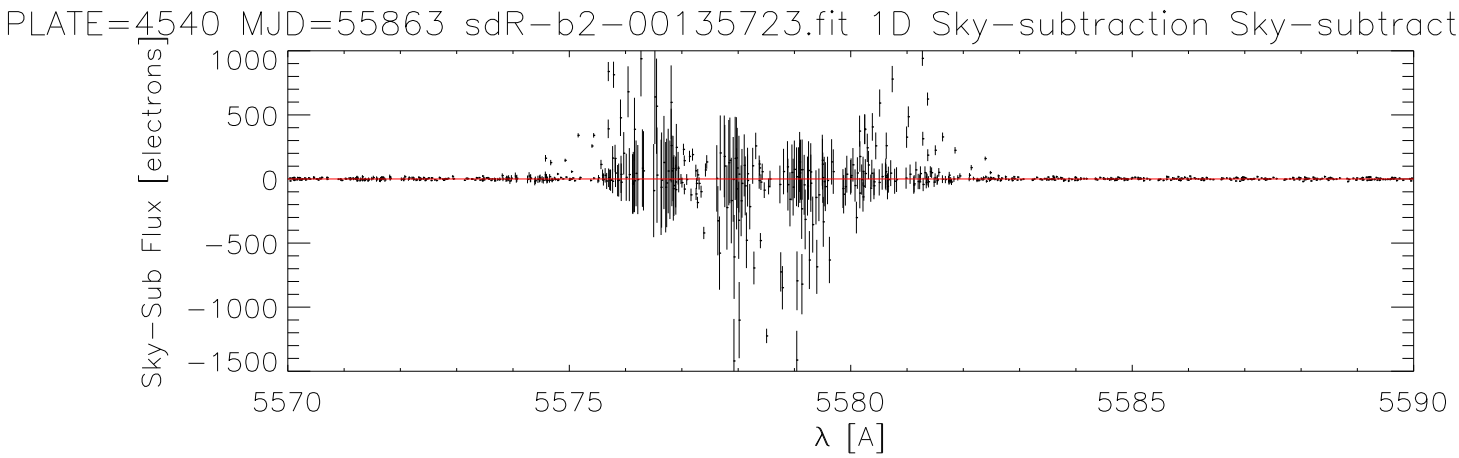

PLATE=4540 MJD=55863 Extraction chi^2 for sdR-b2-00135723.fit
BLACK = Final chisq extraction
χ^2
0.0
0.5
1.0
1.5
0
1000
2000
3000
4000
Row number


PLATE=4540 MJD=55863 Sky Line Deviations for sdR-b2-00135723.fit
1.00 pix
Before shift
After shift
Fiber Number
0
100
200
300
400
500
4046
4358
5460
5577
6300
6363
6553
6923
6949
Sky Line Wavelength

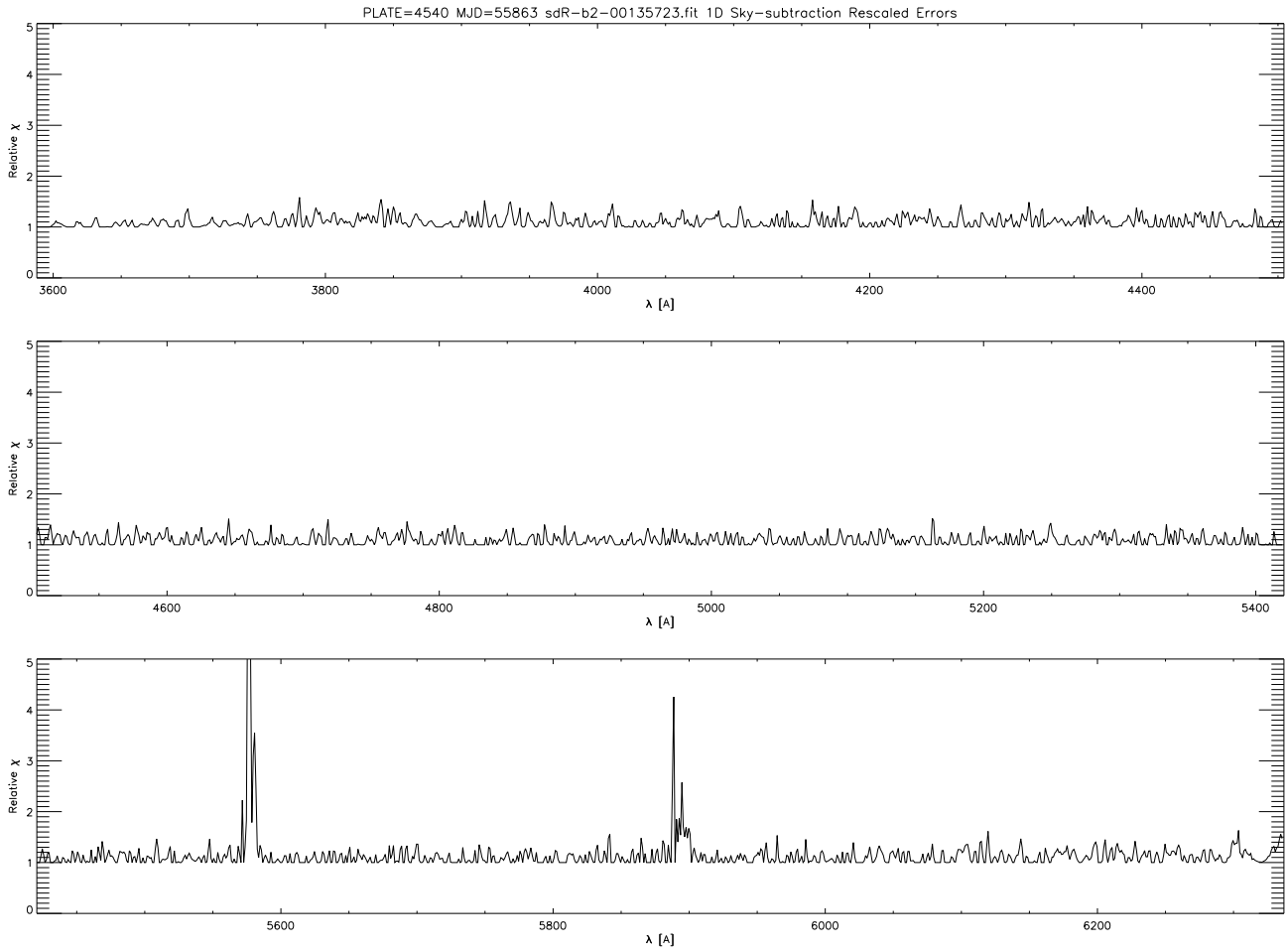

PLATE=4540 MJD=55863 Smooth superflat for sdR-b2-00135723.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

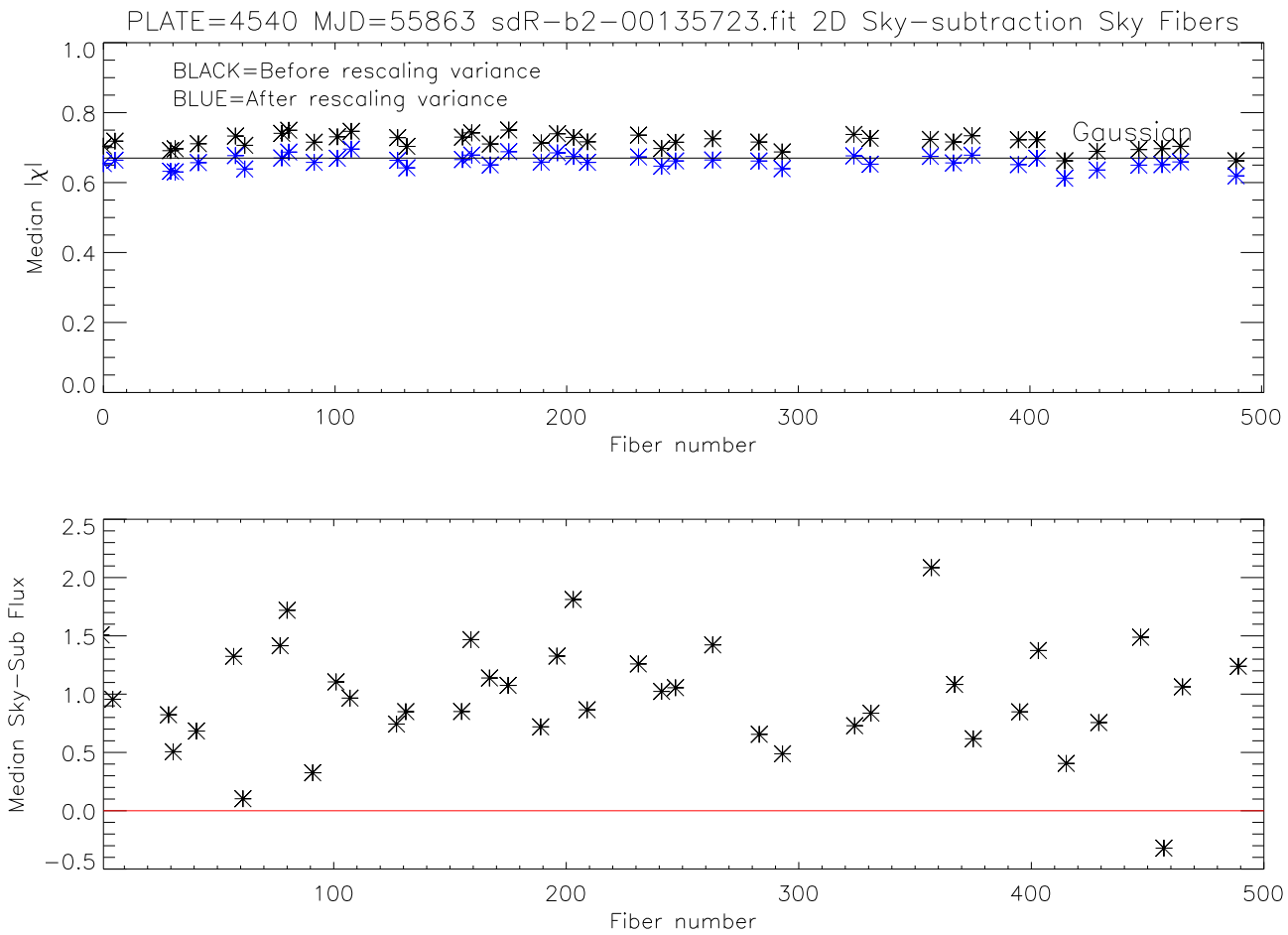

PLATE=4540 MJD=55863 sdR-b2-00135723.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

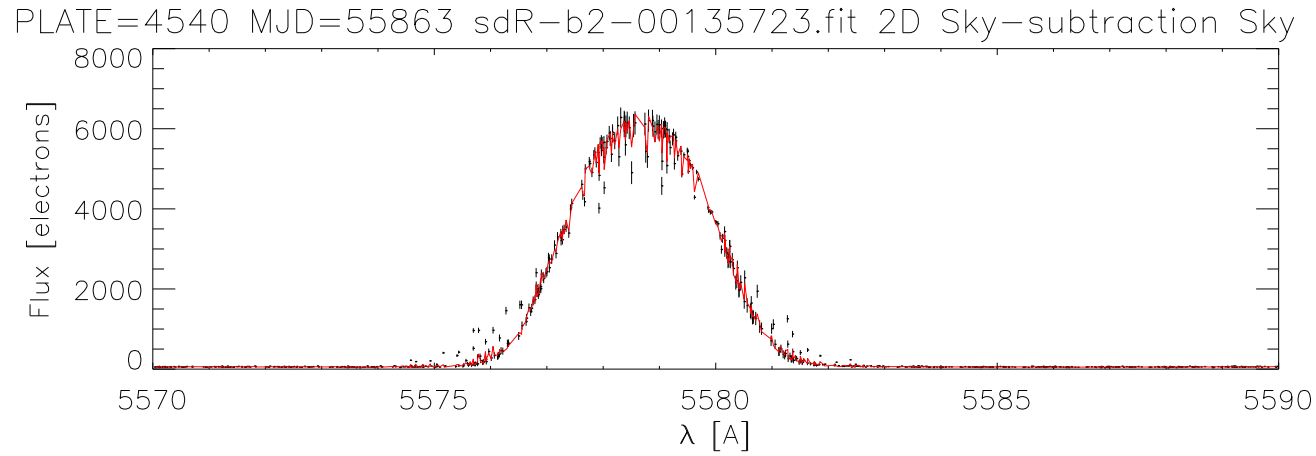

PLATE=4540 MJD=55863 sdR-b2-00135723.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

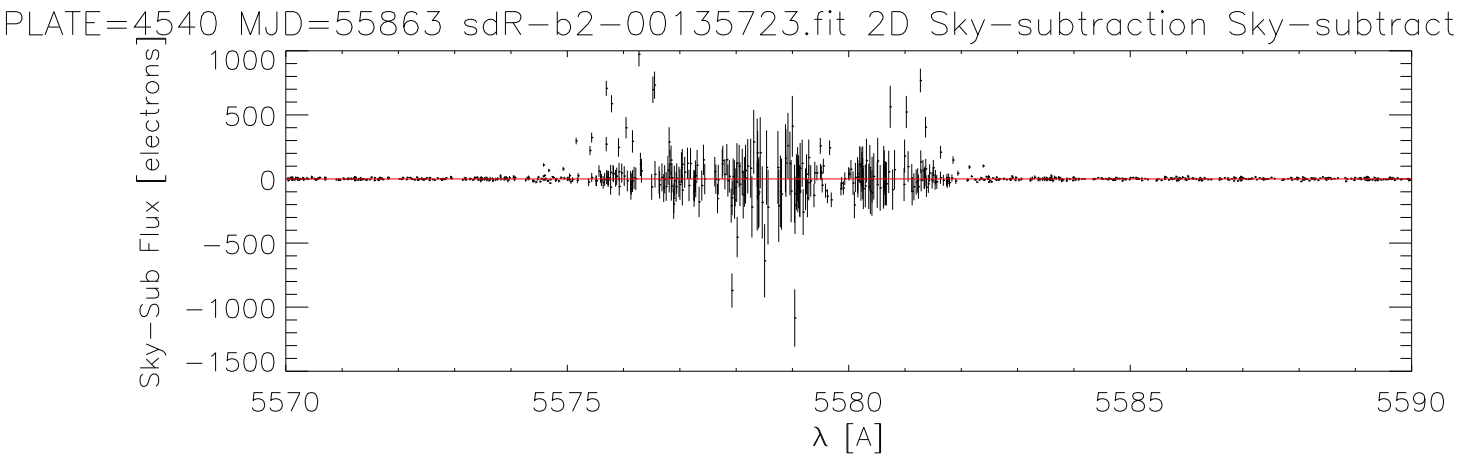

PLATE=4540 MJD=55863 sdR-b2-00135723.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
500
0
-500
-1000
-1500
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 41

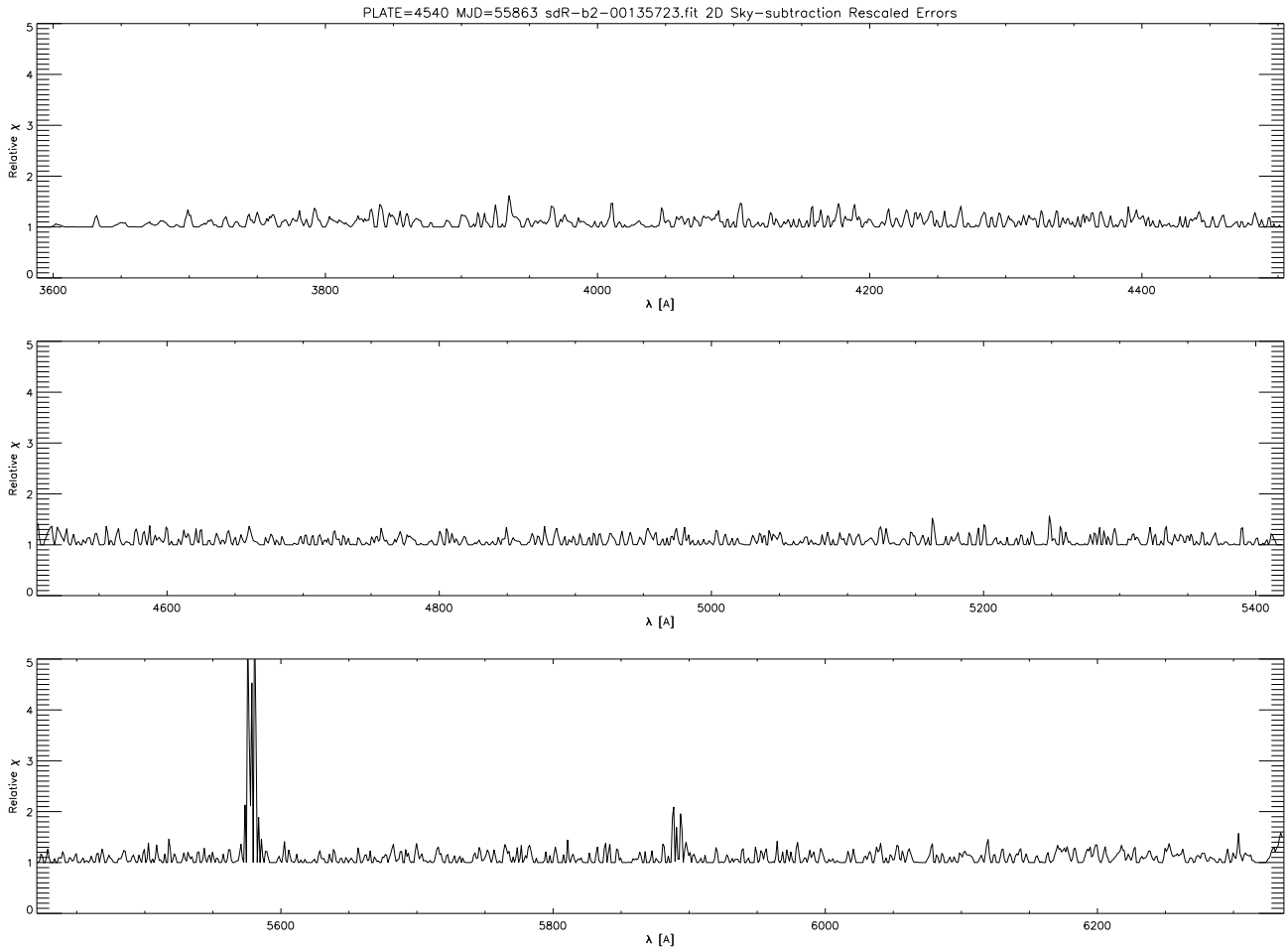


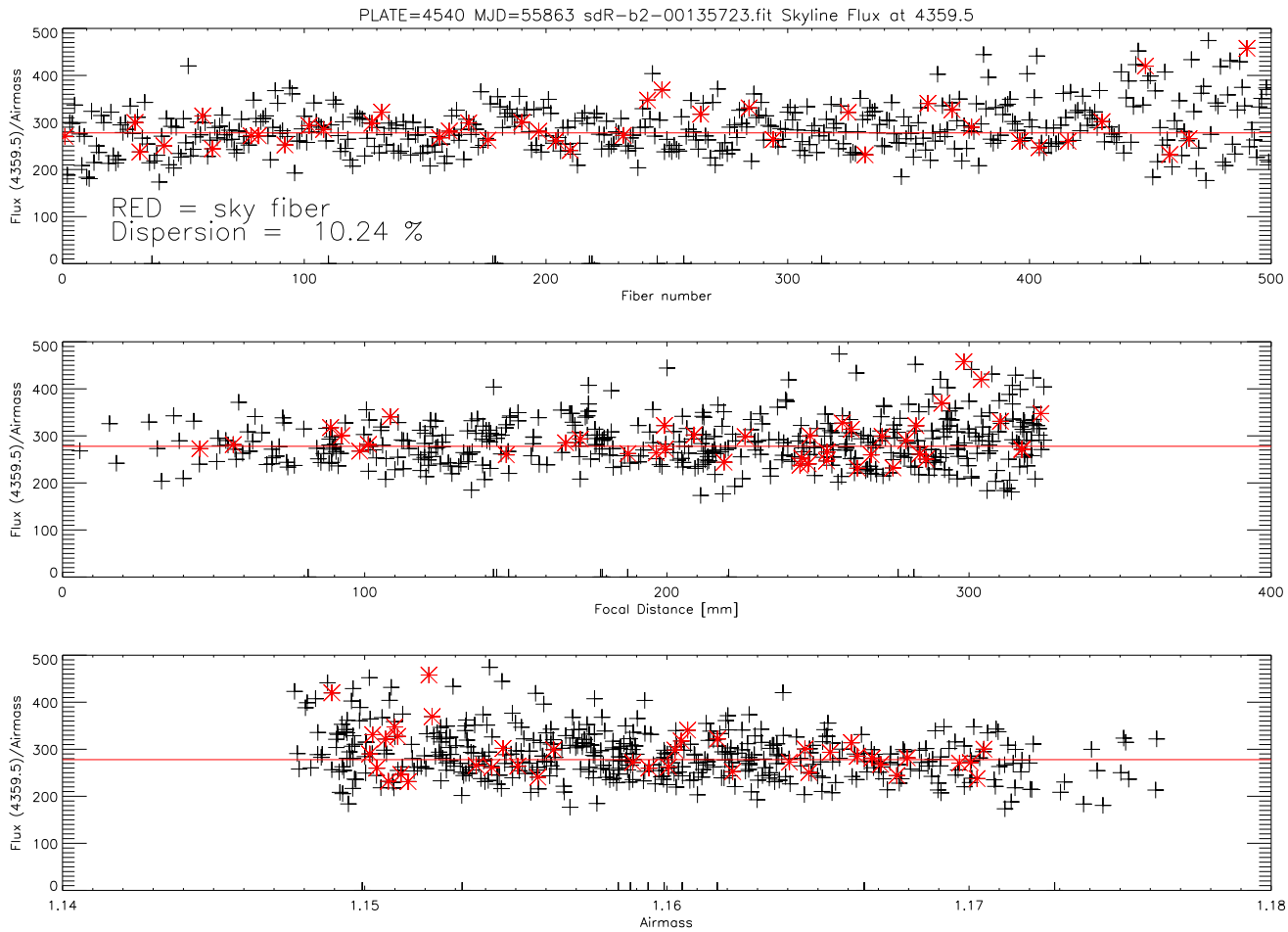

PLATE=4540 MJD=55863 sdR-b2-00135723.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

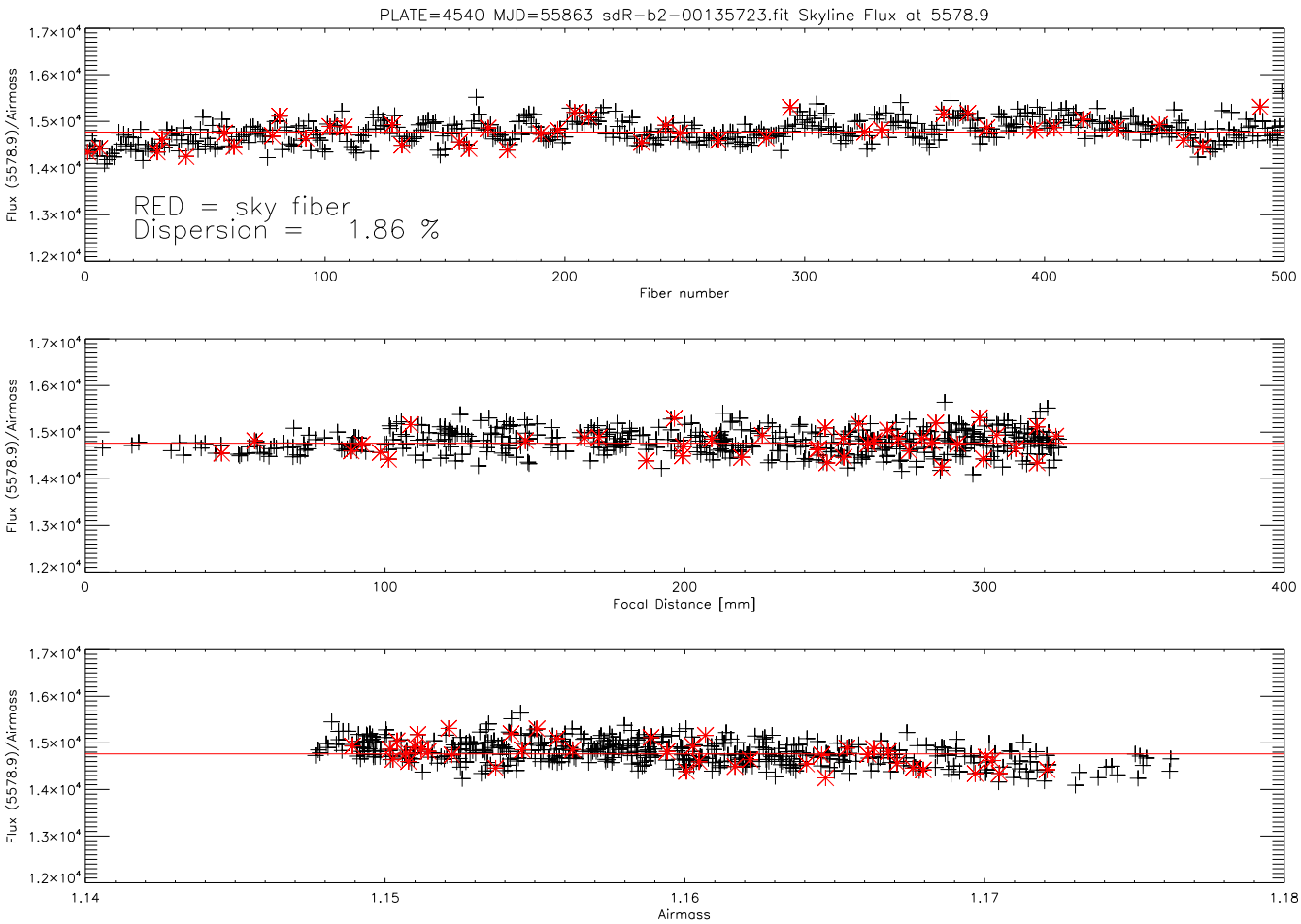

PLATE=4540 MJD=55863 sdR-b2-00135723.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]


PLATE=4540 MJD=55863 sdR-b2-00135723.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
500
0
-500
-1000
-1500
5570
5575
5580
5585
5590
λ [A]

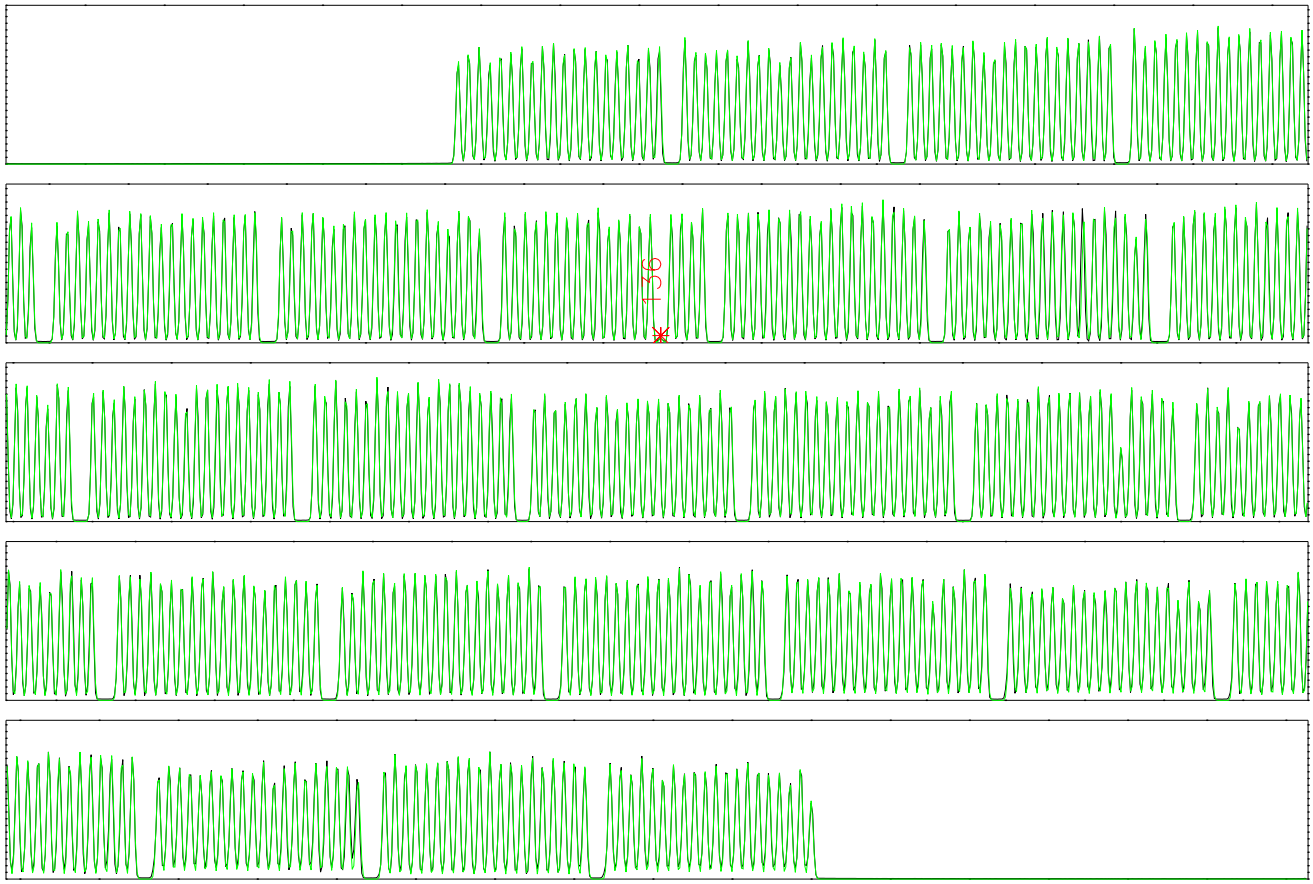
Number of sky fibers = 41

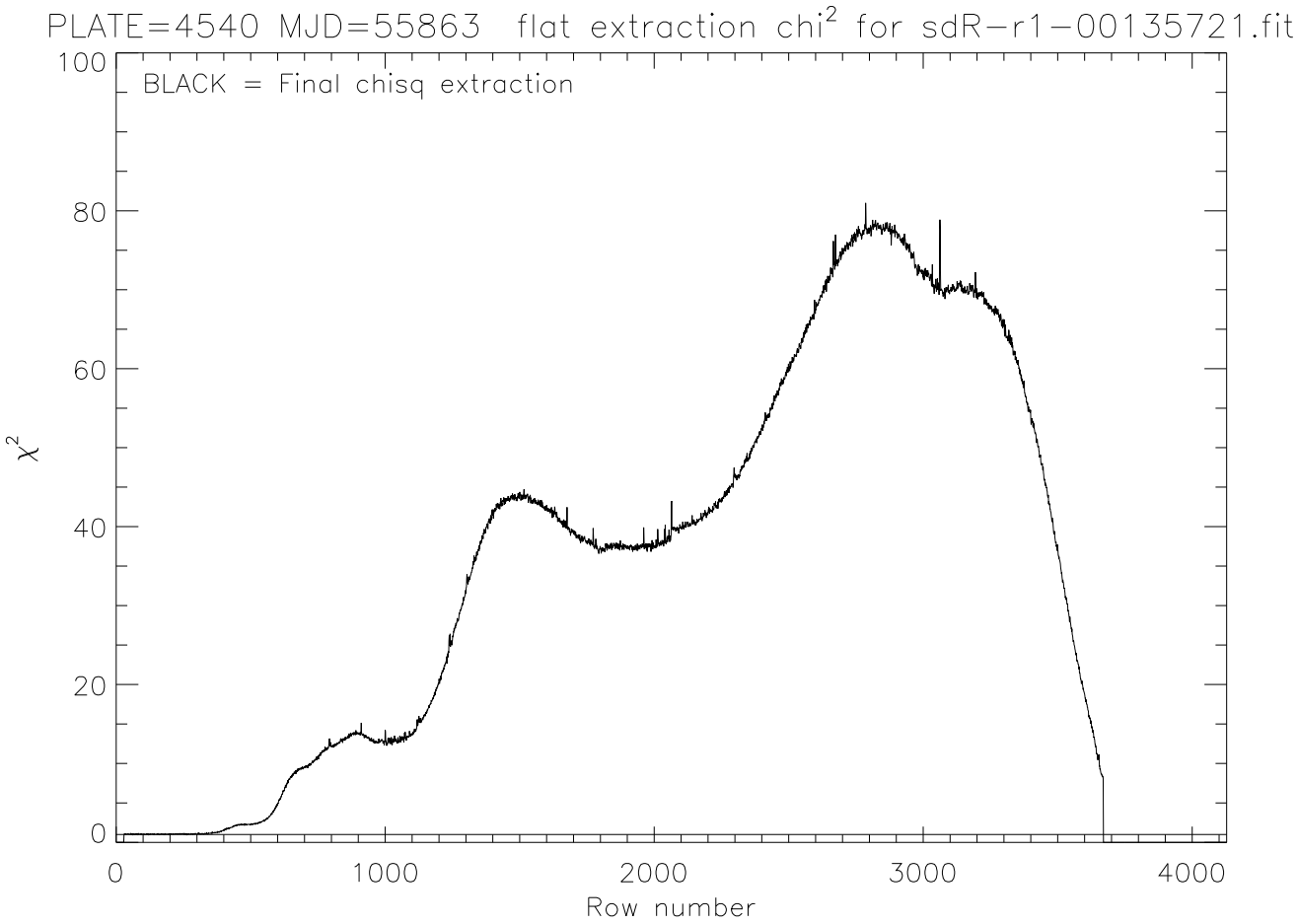


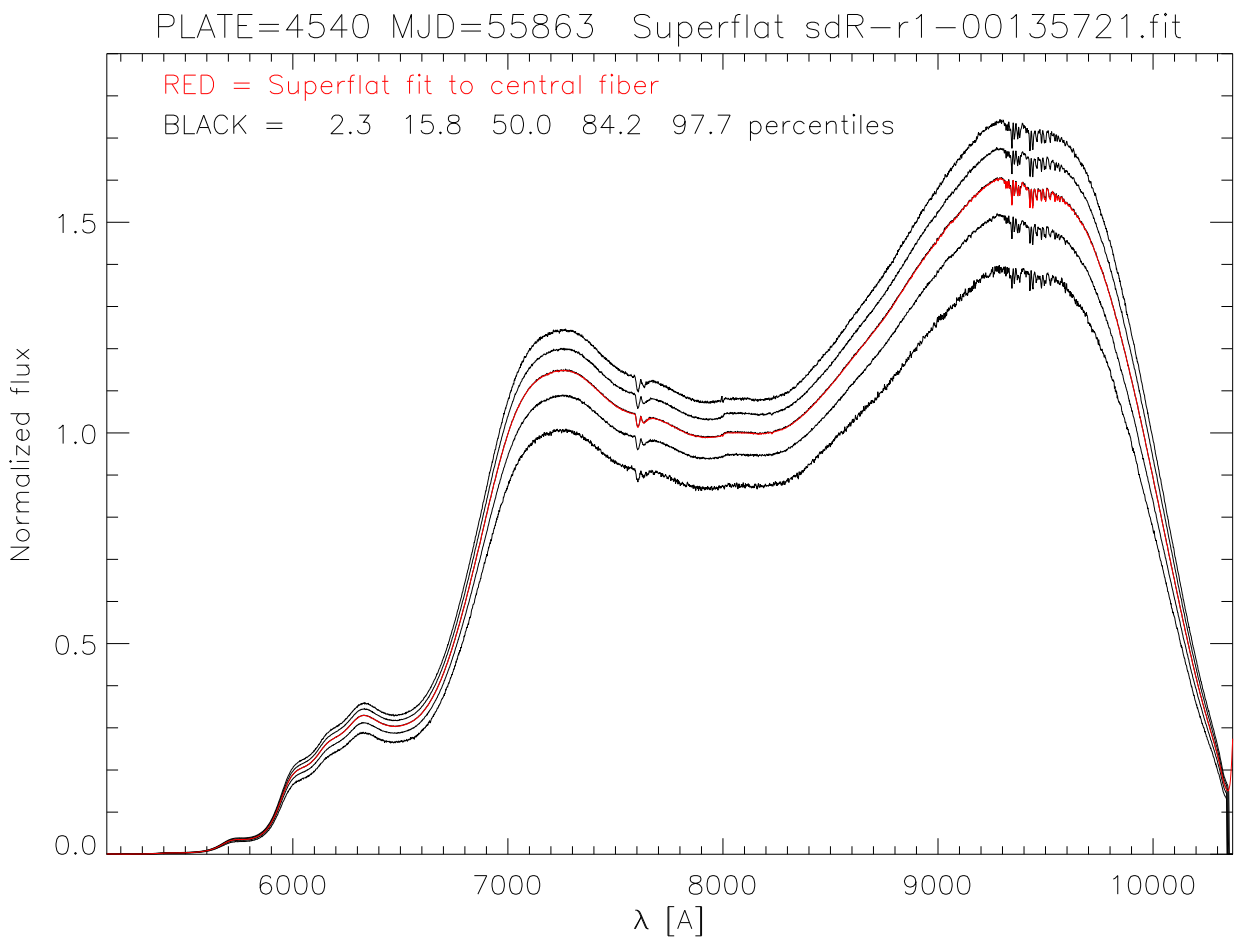

PLATE=4540 MJD=55863 sdR-b2-00135723.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 10.24 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

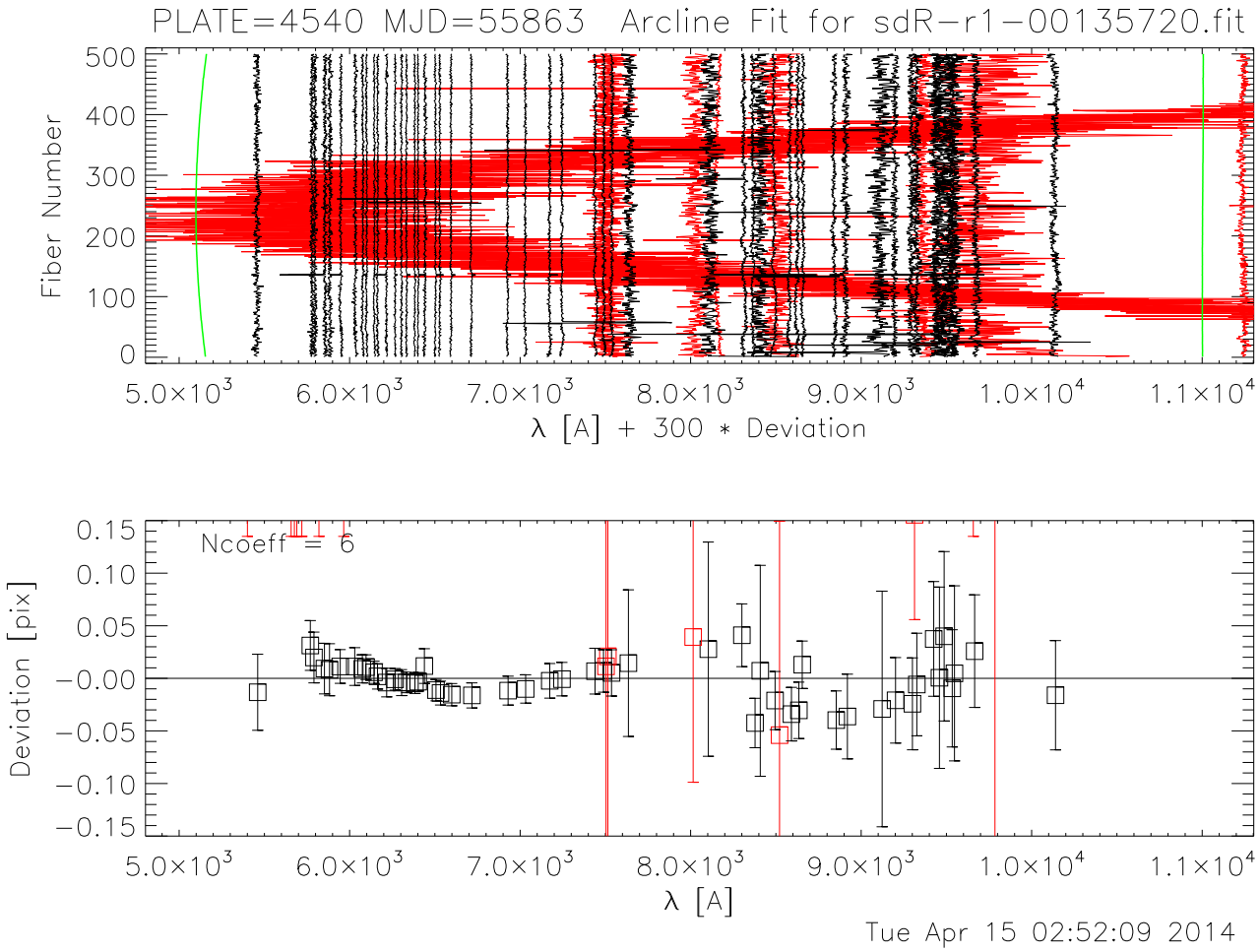

PLATE=4540 MJD=55863 sdR-b2-00135723.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.86 %
Fiber number
Focal Distance [mm]
Airmass

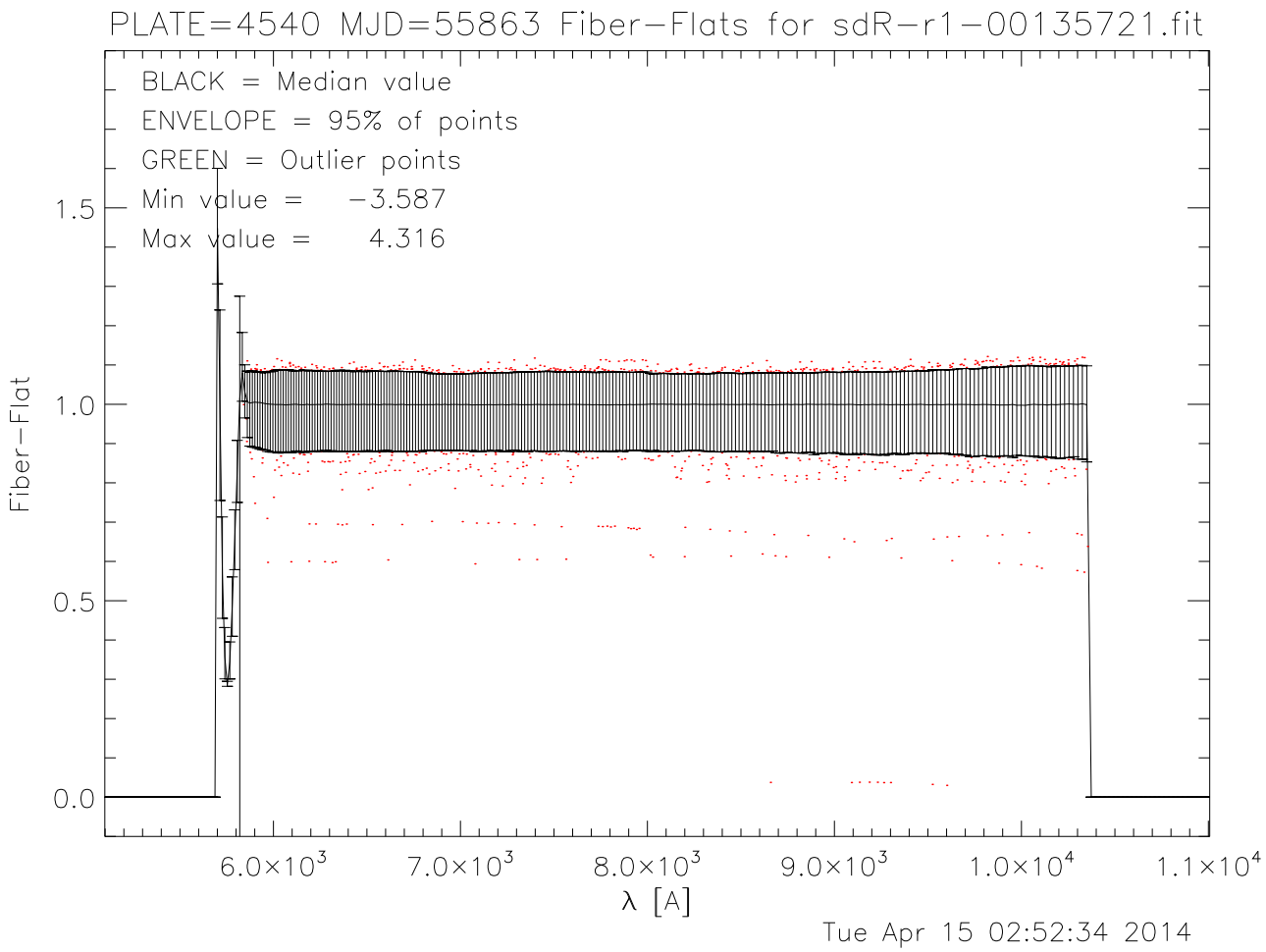
PLATE=4540 MJD=55863 Traces sdR-r1-00135721.fit

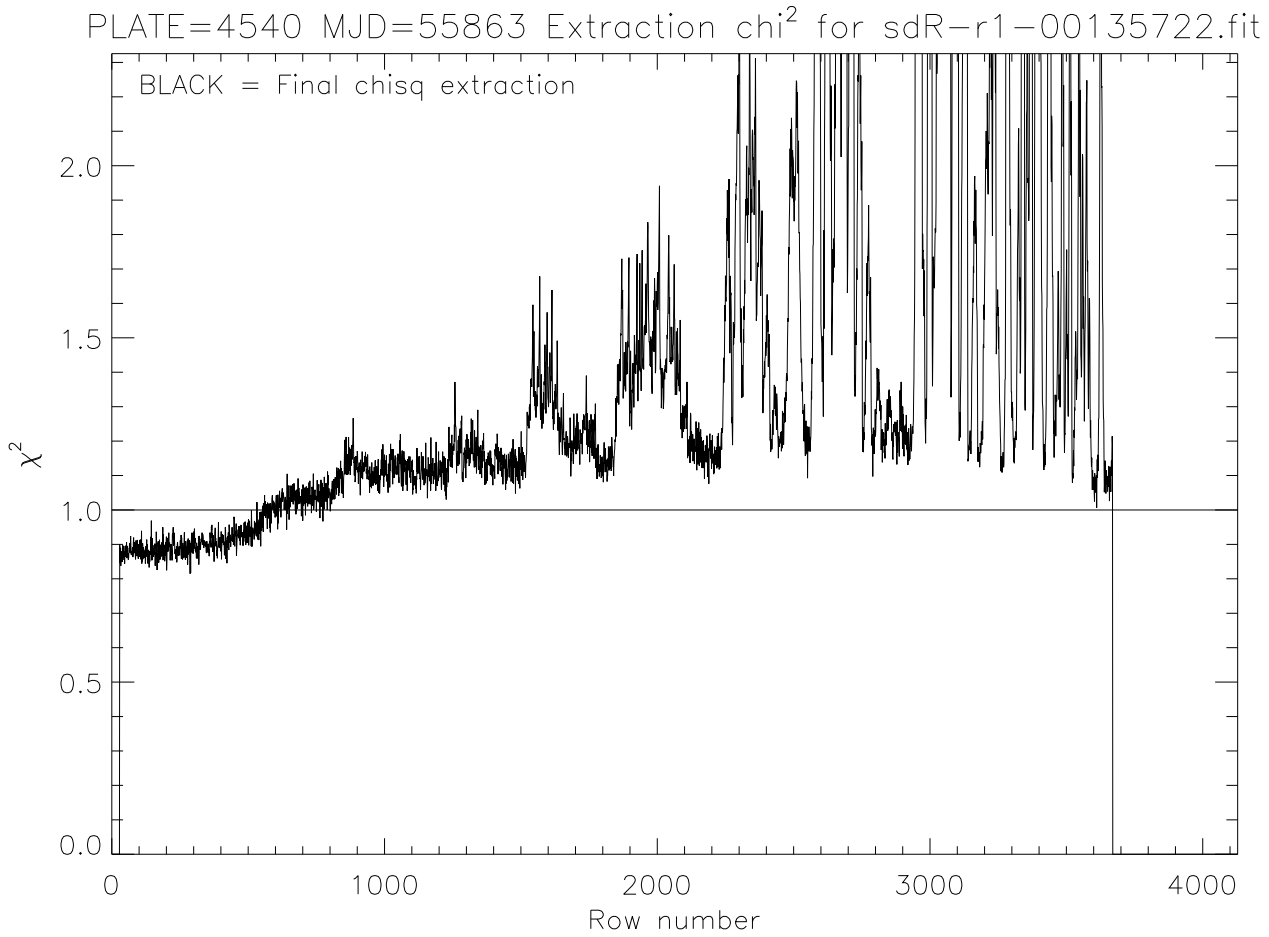


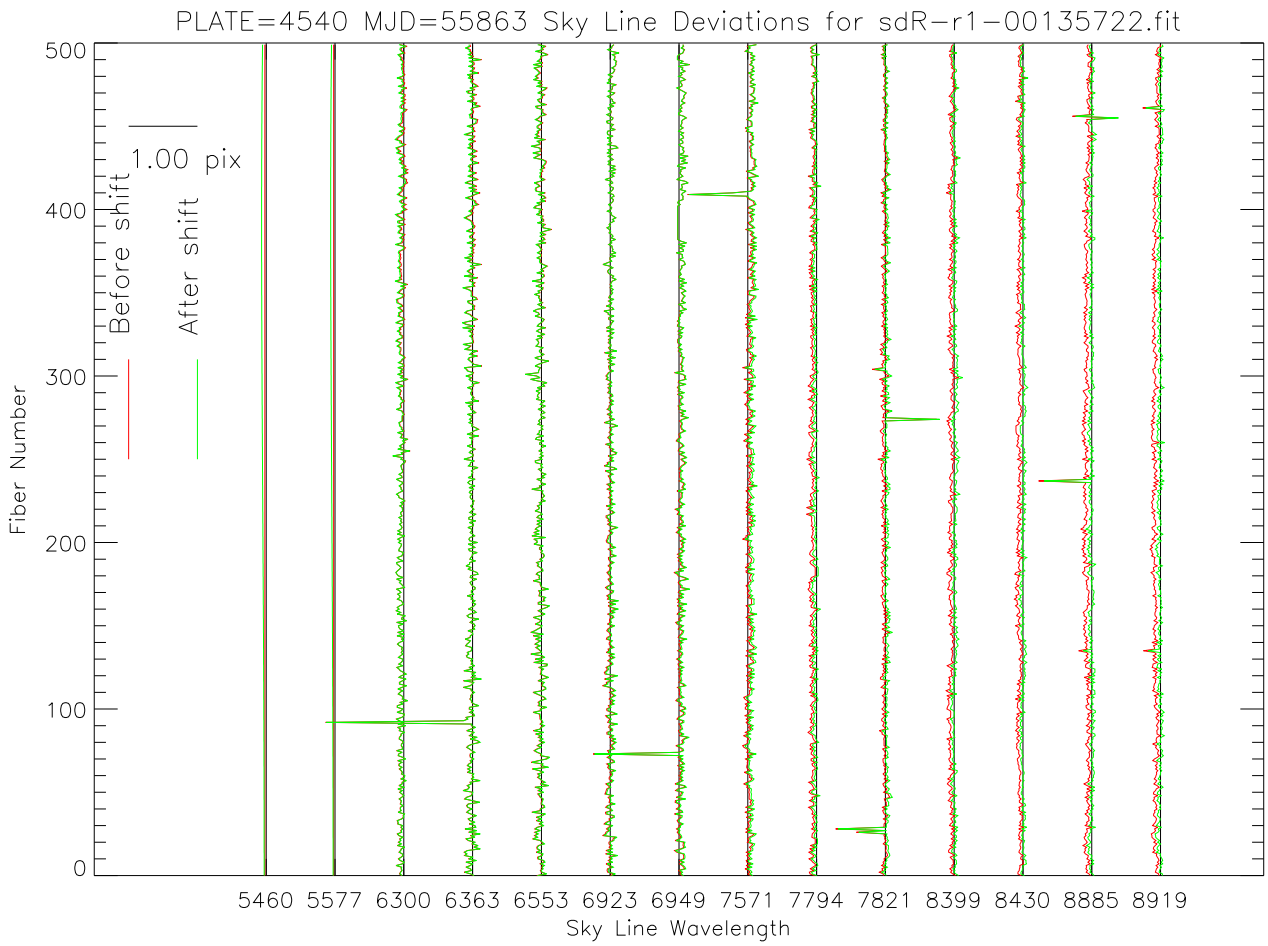

PLATE=4540 MJD=55863 flat extraction chi^2 for sdR−r1−00135721.fit
BLACK = Final chisq extraction
χ^2
Row number
0
20
40
60
80
100
0
1000
2000
3000
4000

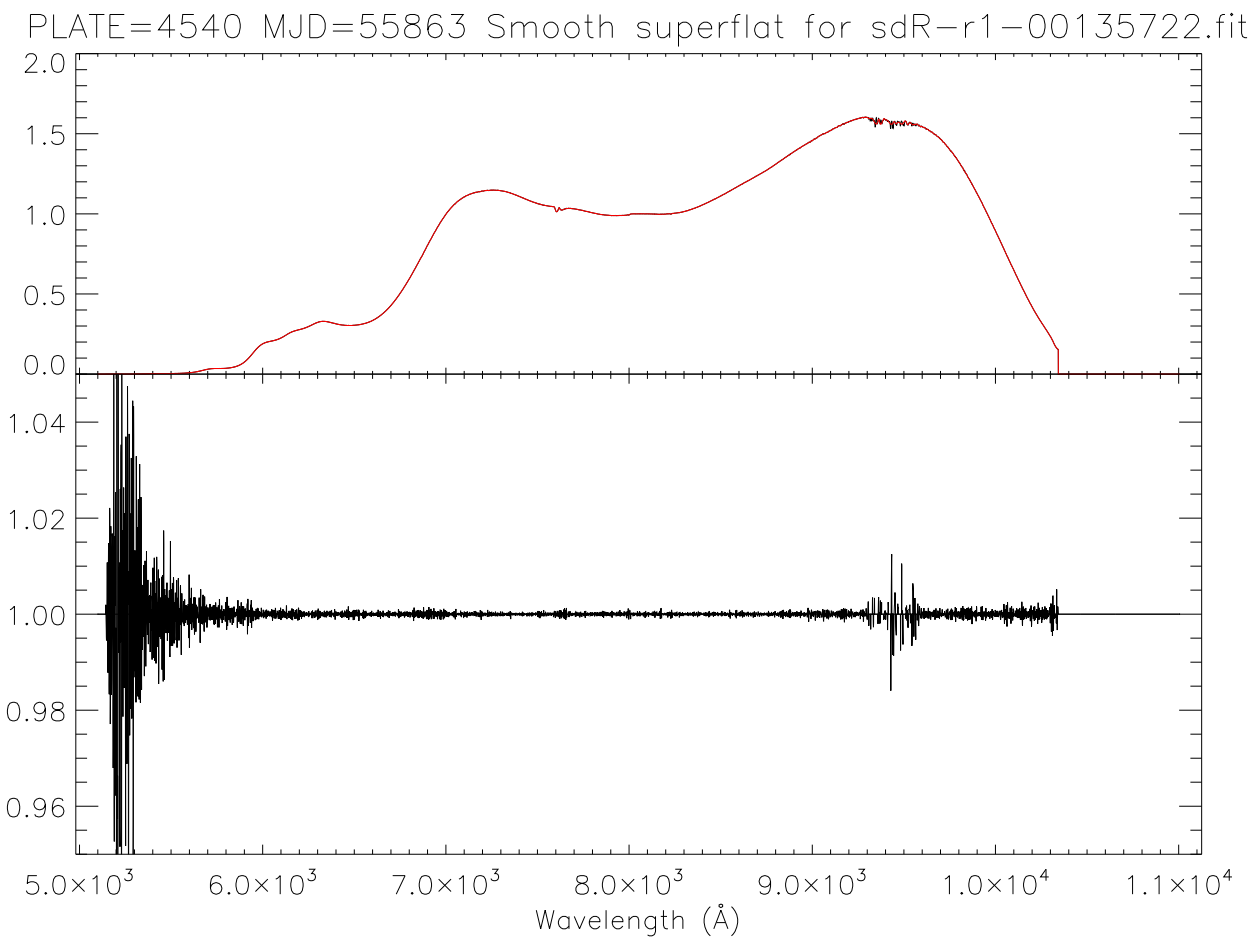

PLATE=4540 MJD=55863 Superflat sdR-r1-00135721.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
0.0
0.5
1.0
1.5
6000
7000
8000
9000
10000
λ [A]

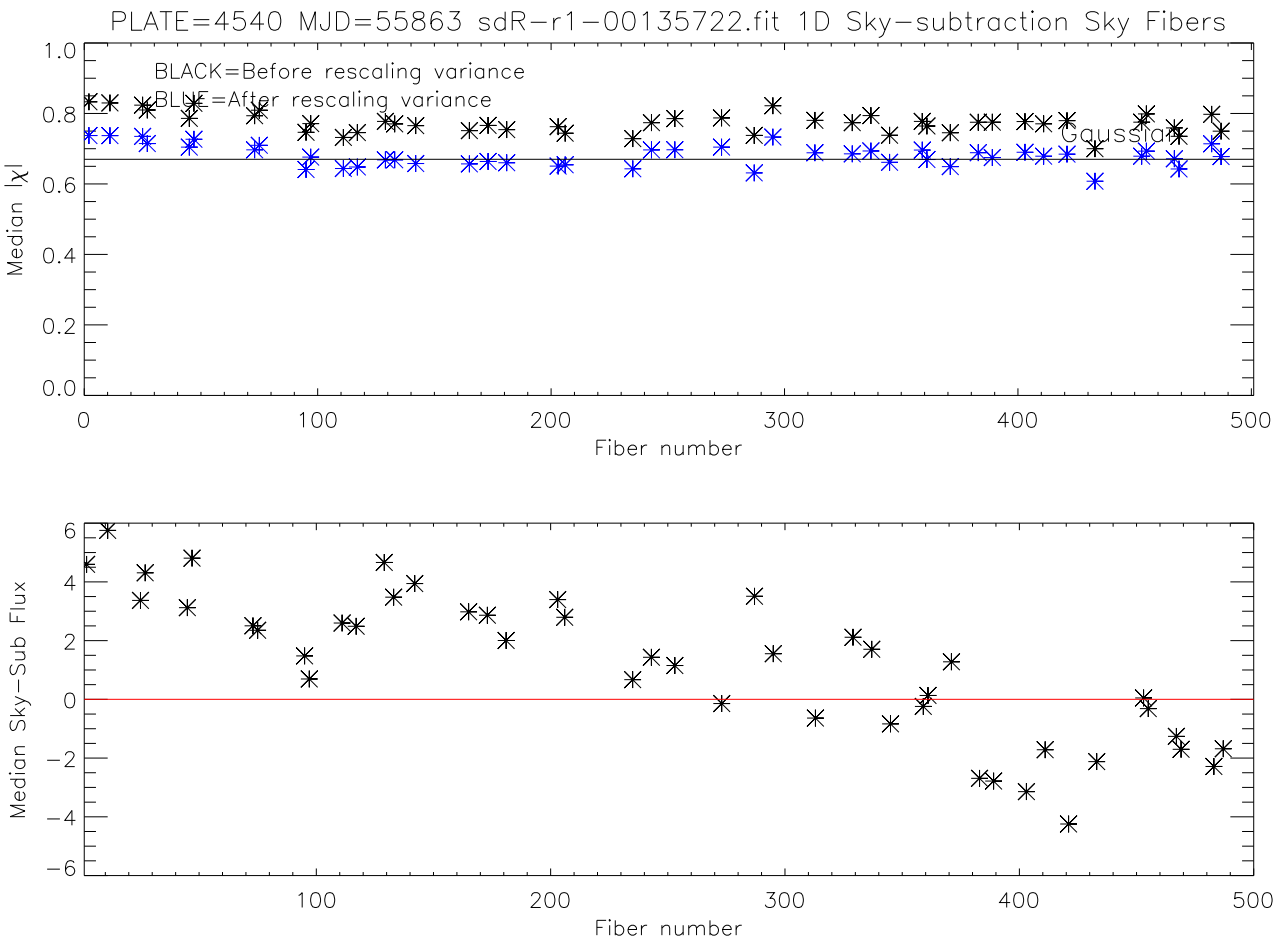

PLATE=4540 MJD=55863 Arcline Fit for sdR-r1-00135720.fit
Fiber Number
500
400
300
200
100
0
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A] + 300 * Deviation
Ncoeff = 6
Deviation [pix]
0.15
0.10
0.05
−0.00
−0.05
−0.10
−0.15
λ [A]
Tue Apr 15 02:52:09 2014

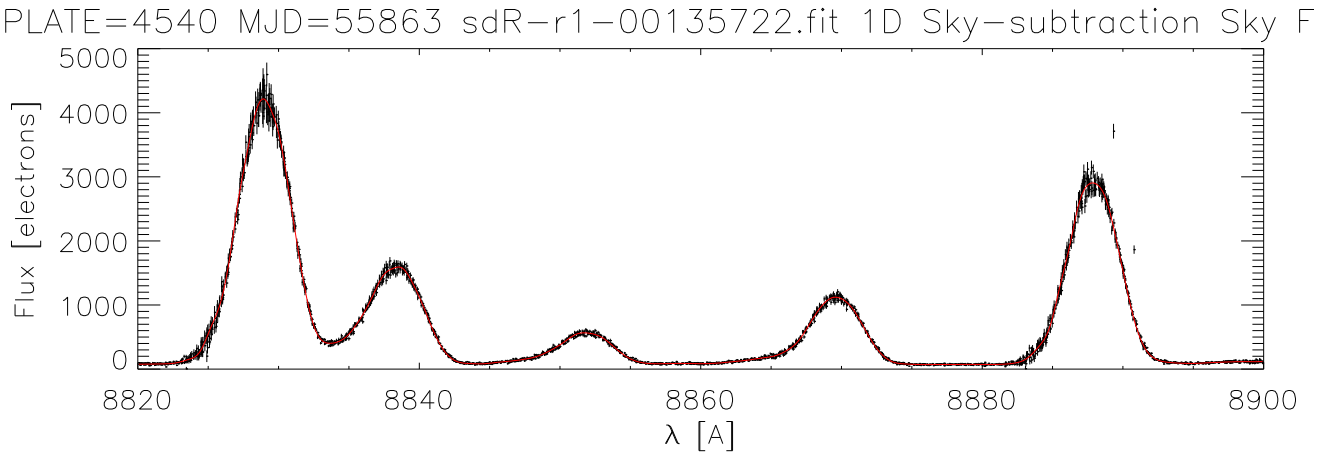

PLATE=4540 MJD=55863 Fiber−Flats for sdR−r1−00135721.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −3.587
Max value = 4.316
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Tue Apr 15 02:52:34 2014

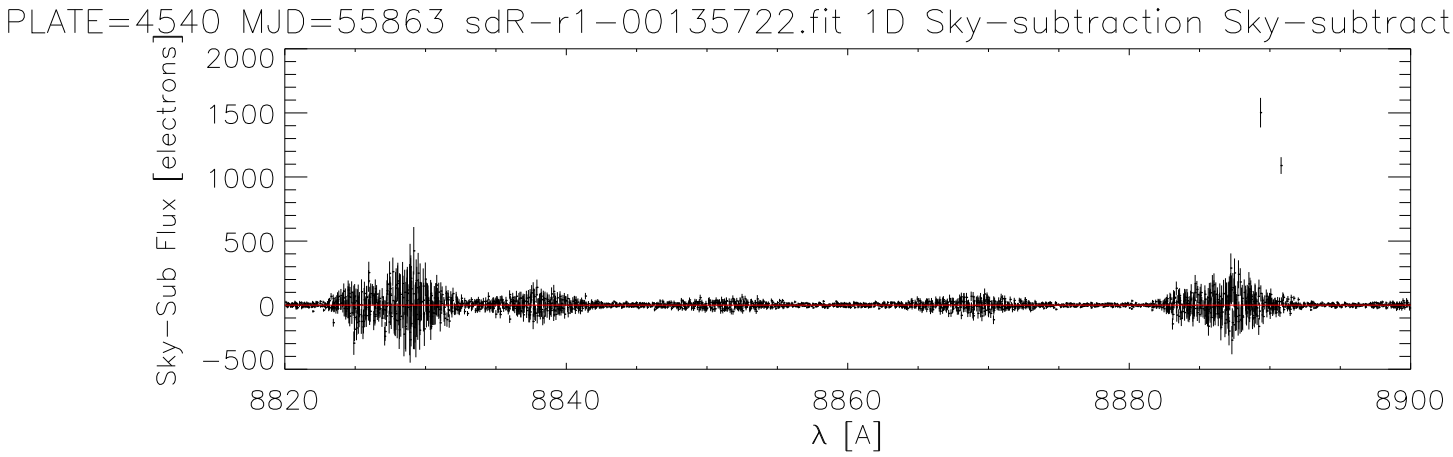

PLATE=4540 MJD=55863 Extraction chi^2 for sdR−r1−00135722.fit
BLACK = Final chisq extraction
χ^2
2.0
1.5
1.0
0.5
0.0
0
1000
2000
3000
4000
Row number


PLATE=4540 MJD=55863 Sky Line Deviations for sdR-r1-00135722.fit
Before shift
After shift
1.00 pix
Fiber Number
0
100
200
300
400
500
5460 5577 6300 6363 6553 6923 6949 7571 7794 7821 8399 8430 8885 8919
Sky Line Wavelength

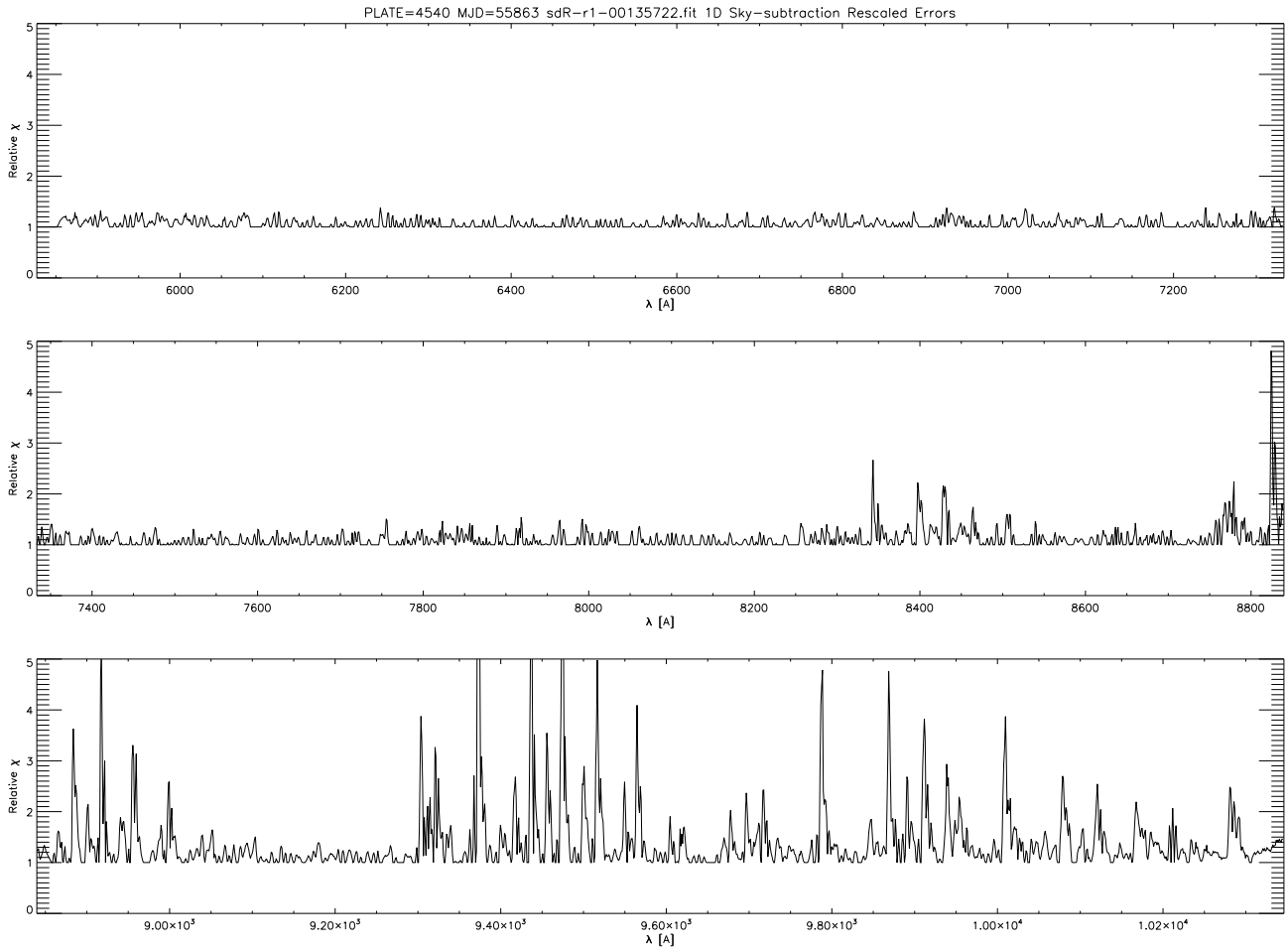

PLATE=4540 MJD=55863 Smooth superflat for sdR-r1-00135722.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

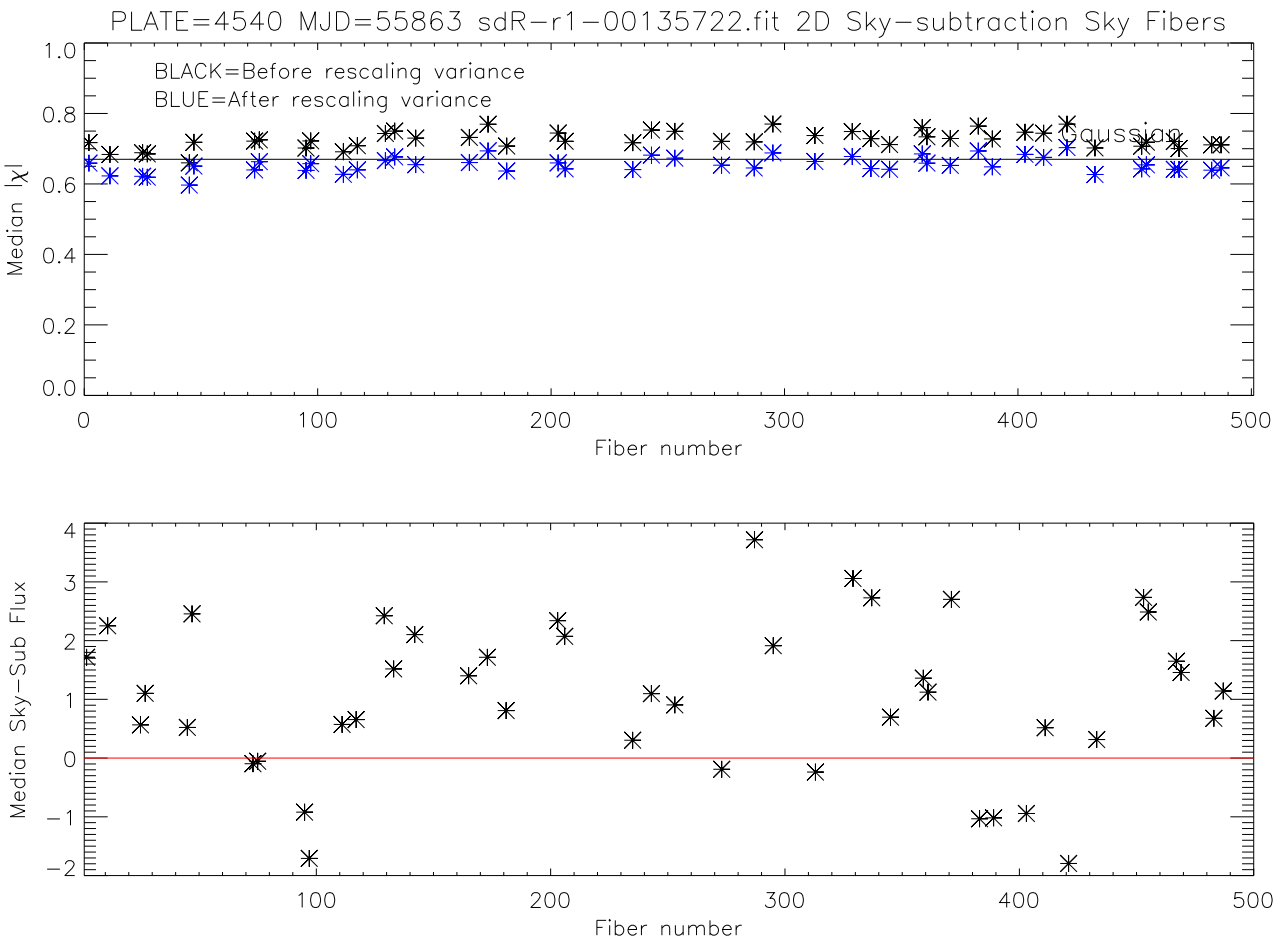

PLATE=4540 MJD=55863 sdR-r1-00135722.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

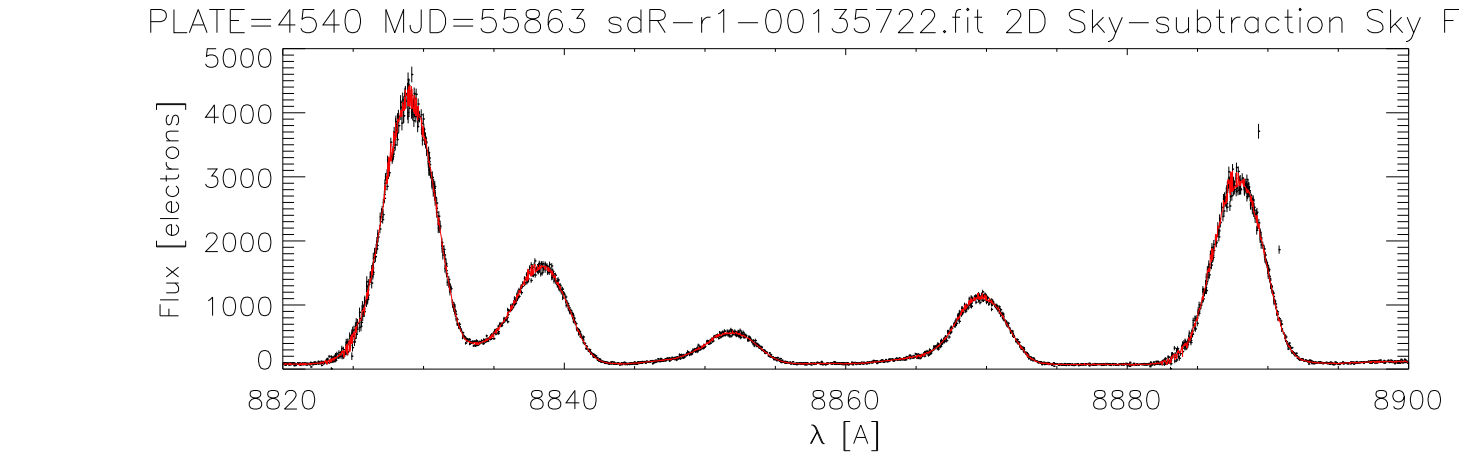

PLATE=4540 MJD=55863 sdR-r1-00135722.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

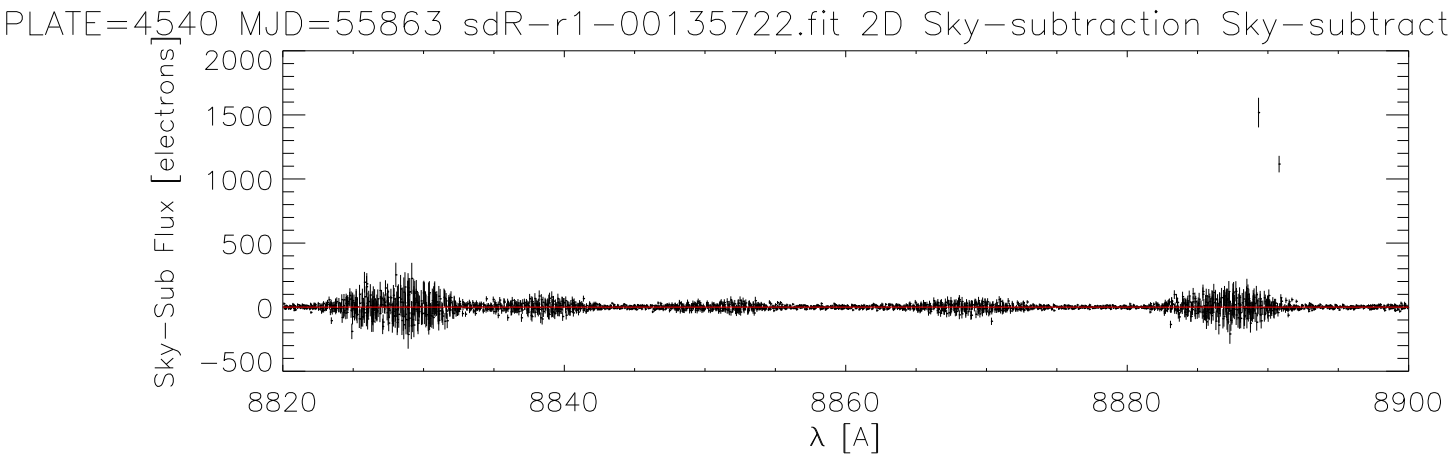

PLATE=4540 MJD=55863 sdR-r1-00135722.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 45

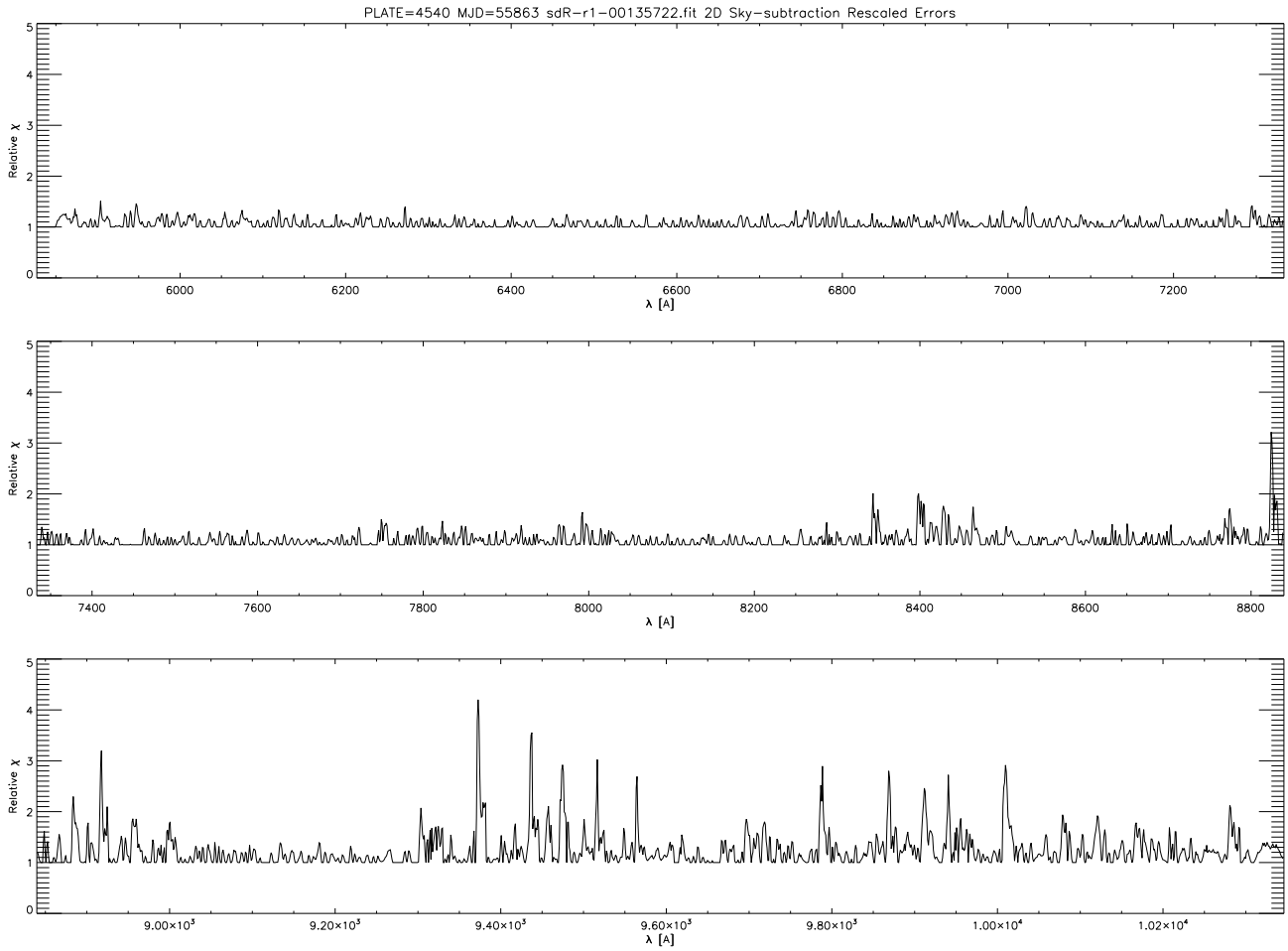


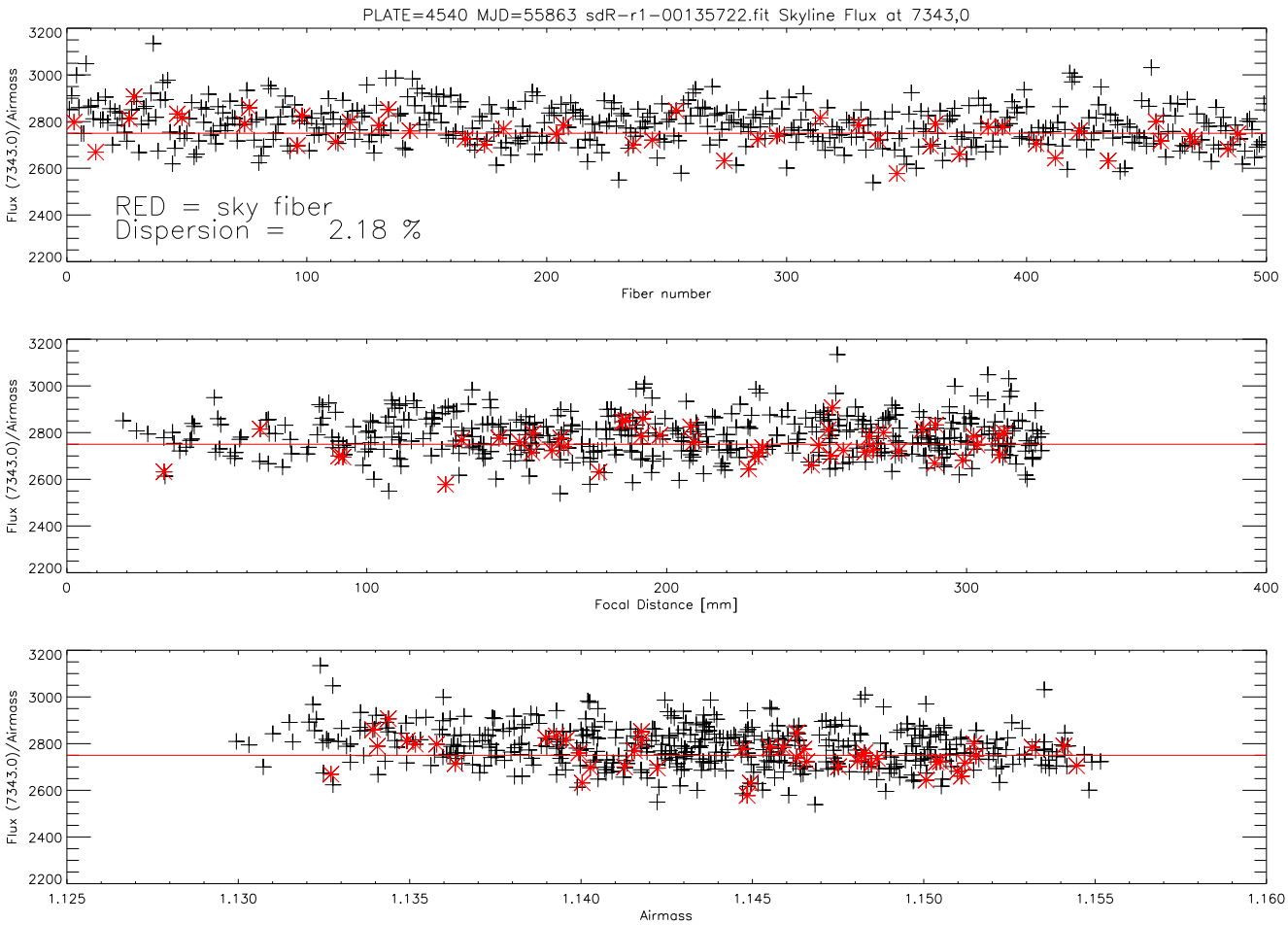

PLATE=4540 MJD=55863 sdR-r1-00135722.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

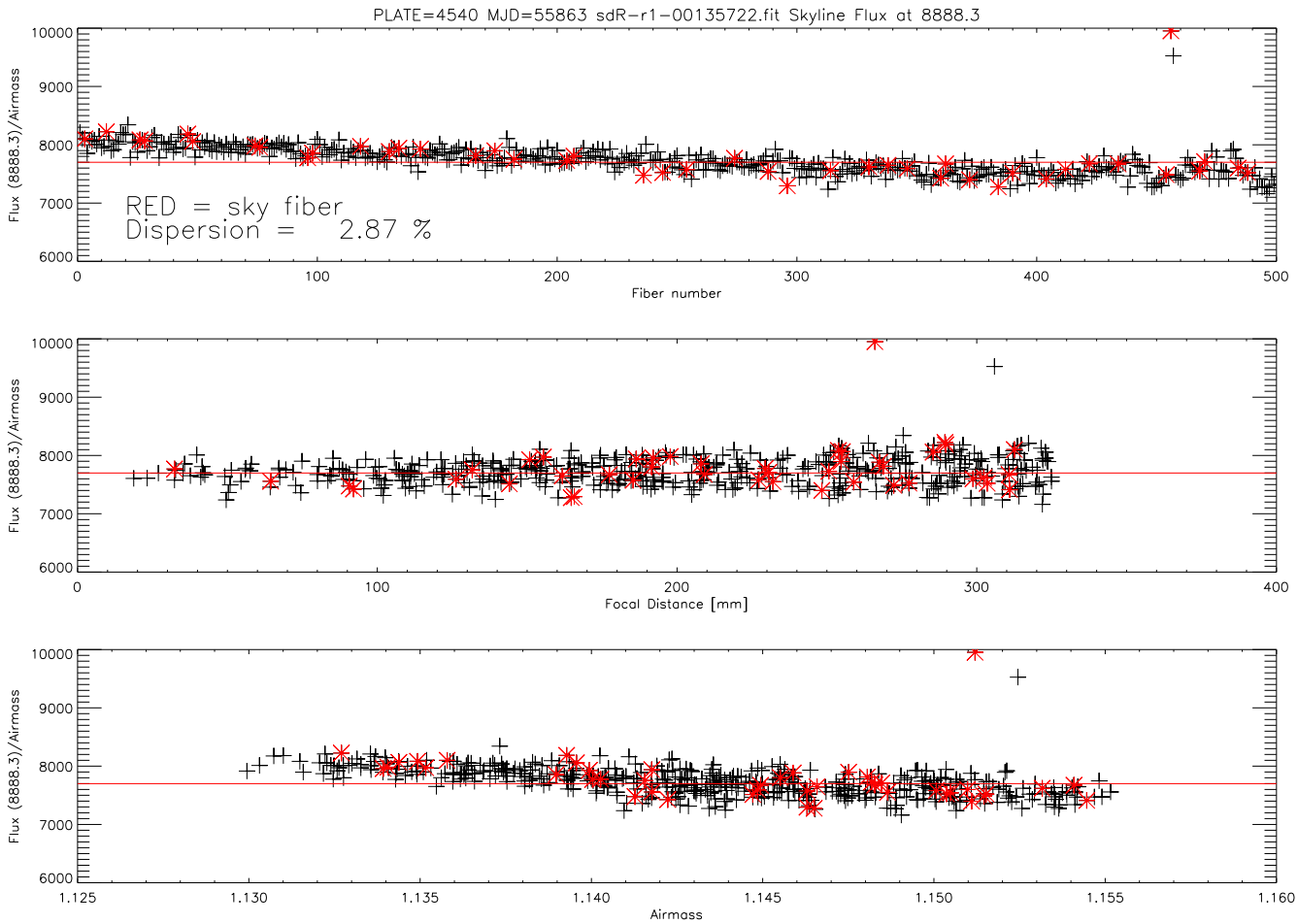

PLATE=4540 MJD=55863 sdR-r1-00135722.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

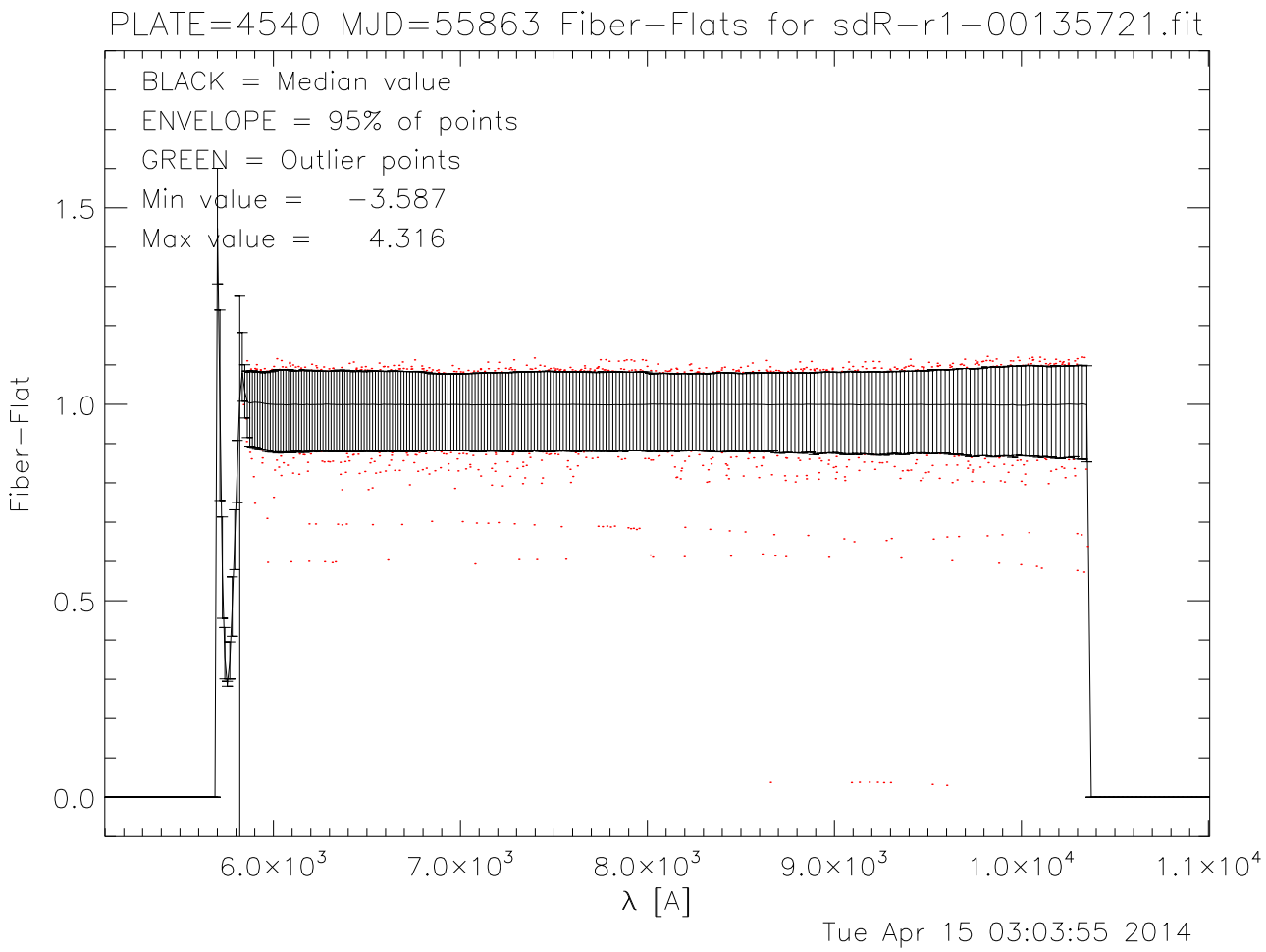

PLATE=4540 MJD=55863 sdR-r1-00135722.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

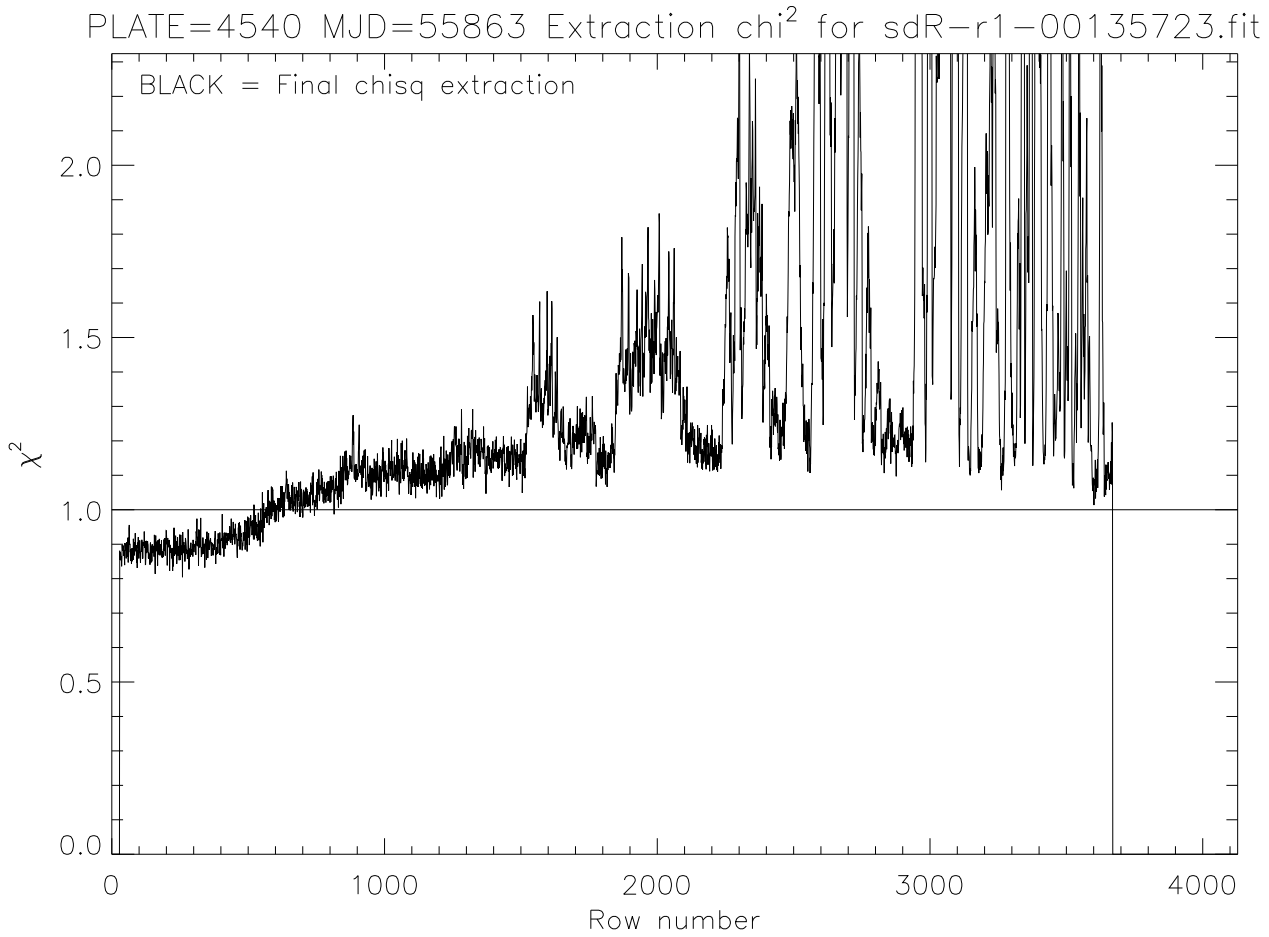
Number of sky fibers = 45

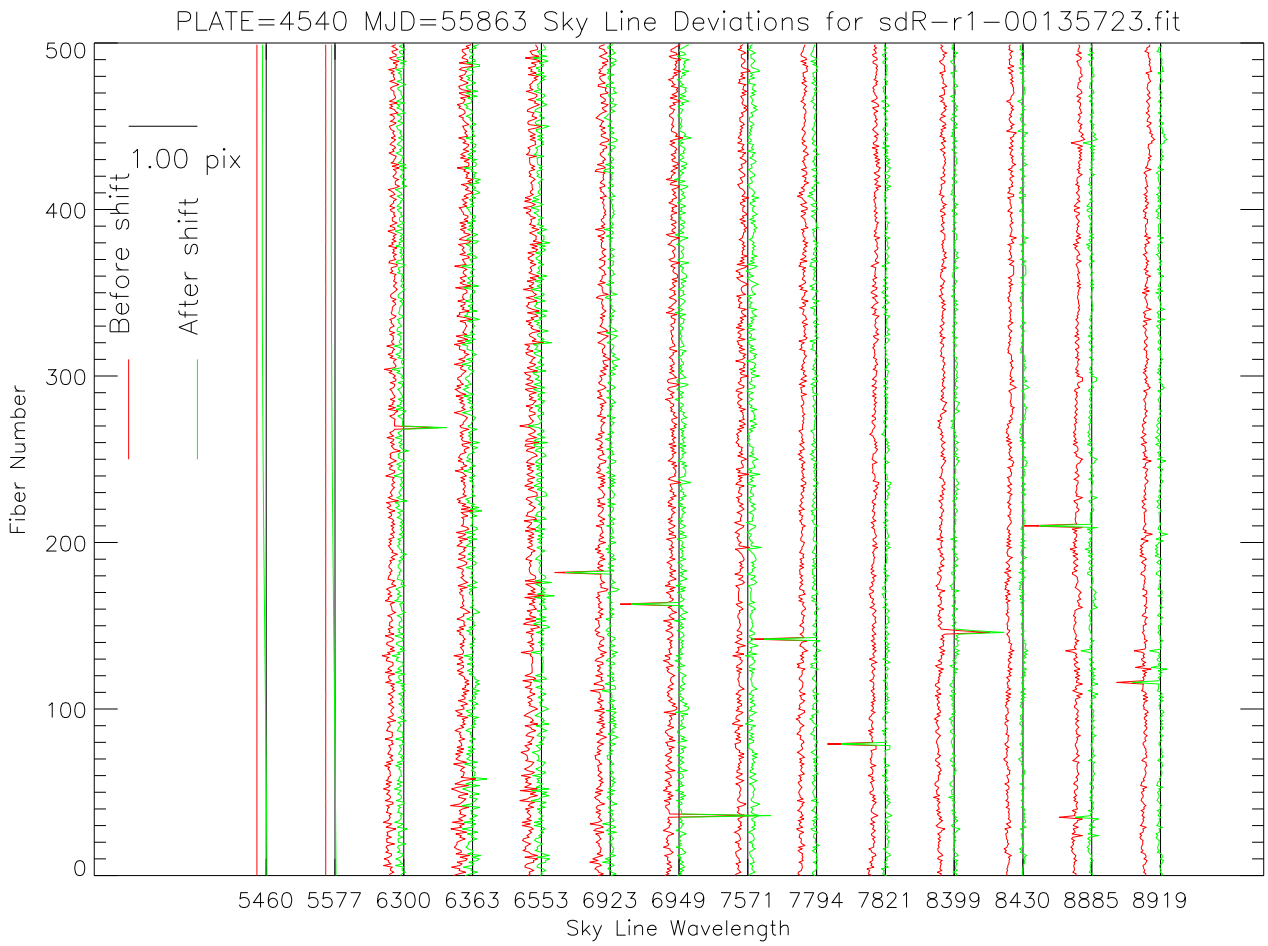


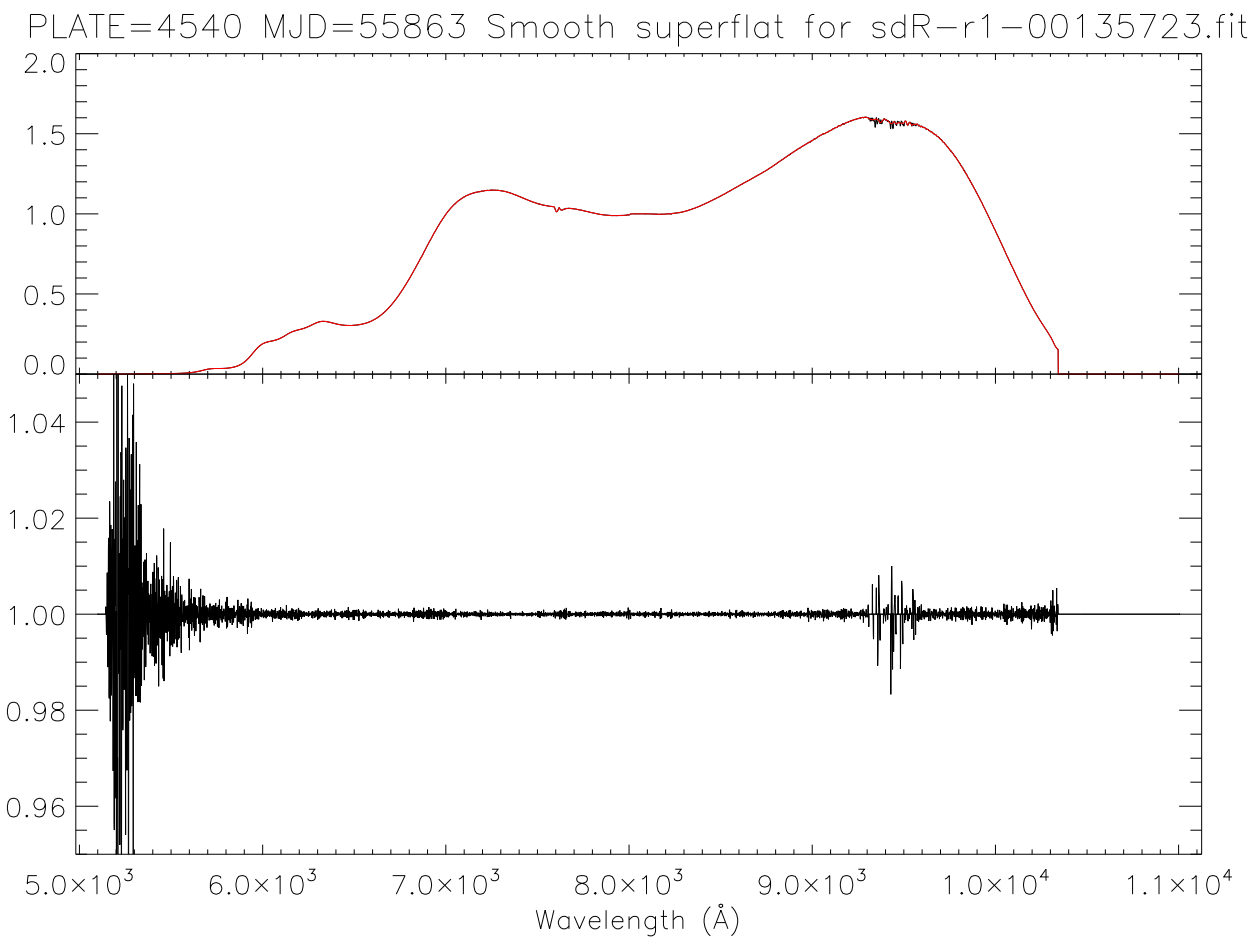

PLATE=4540 MJD=55863 sdR-r1-00135722.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.18 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

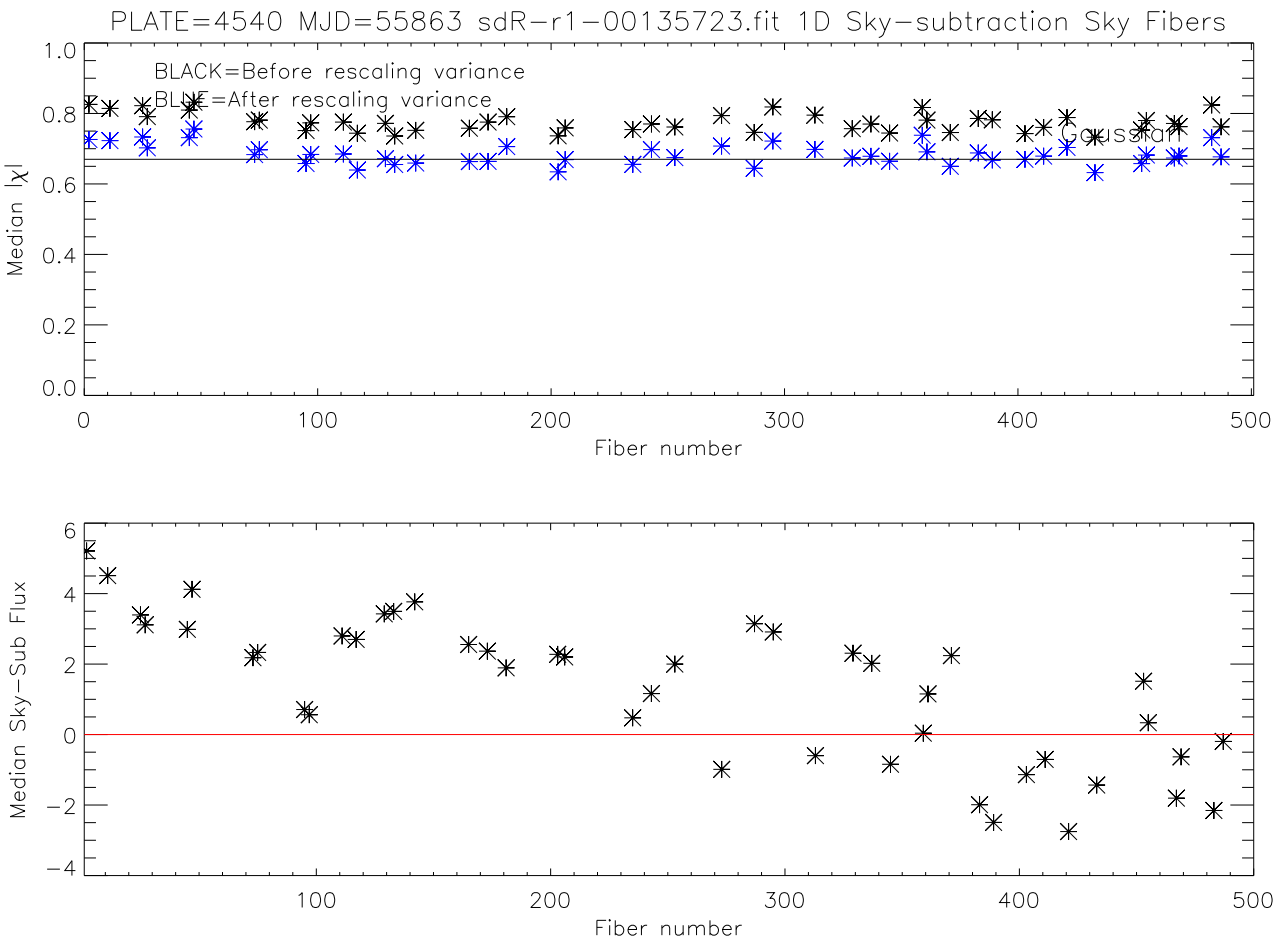

PLATE=4540 MJD=55863 sdR-r1-00135722.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.87 %
Fiber number
Focal Distance [mm]
Airmass

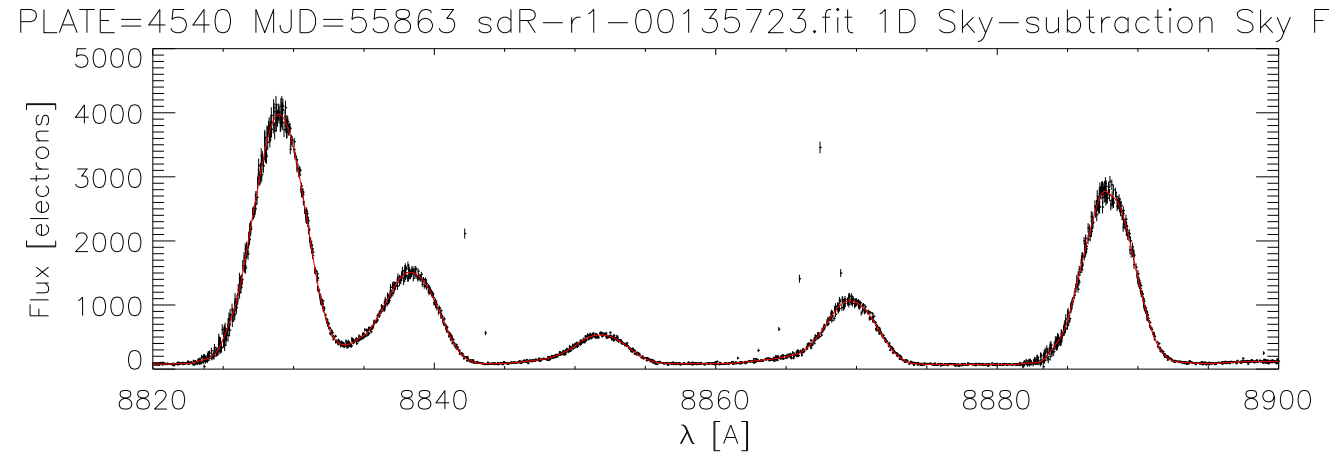

PLATE=4540 MJD=55863 Fiber−Flats for sdR−r1−00135721.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −3.587
Max value = 4.316
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Tue Apr 15 03:03:55 2014

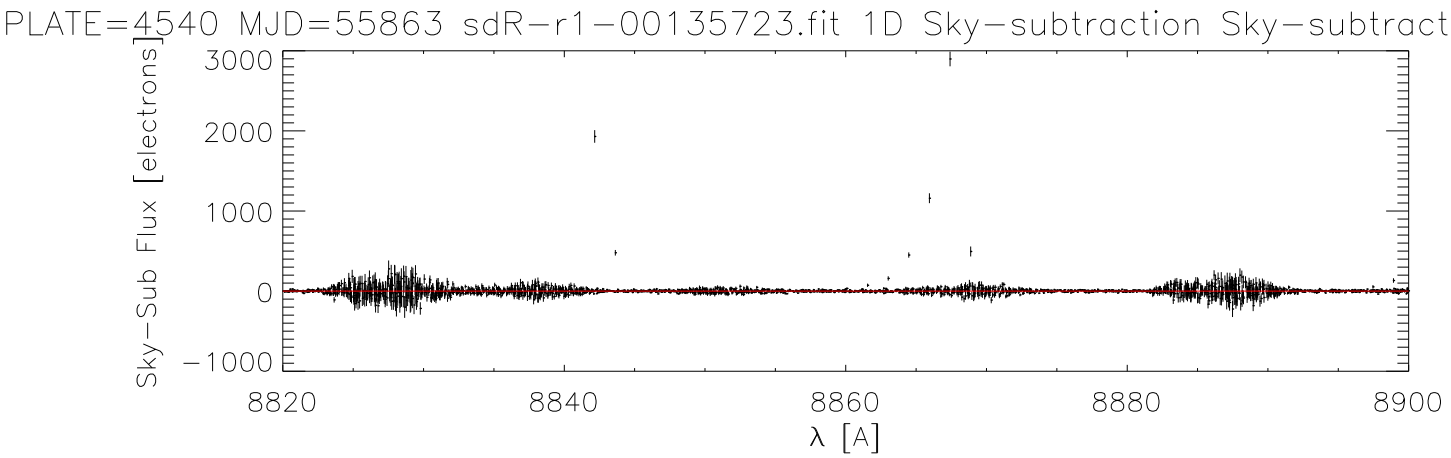

PLATE=4540 MJD=55863 Extraction chi^2 for sdR−r1−00135723.fit
BLACK = Final chisq extraction
χ^2
0.0
0.5
1.0
1.5
2.0
0
1000
2000
3000
4000
Row number


PLATE=4540 MJD=55863 Sky Line Deviations for sdR-r1-00135723.fit
Before shift
After shift
1.00 pix
Fiber Number
0
100
200
300
400
500
5460 5577 6300 6363 6553 6923 6949 7571 7794 7821 8399 8430 8885 8919
Sky Line Wavelength

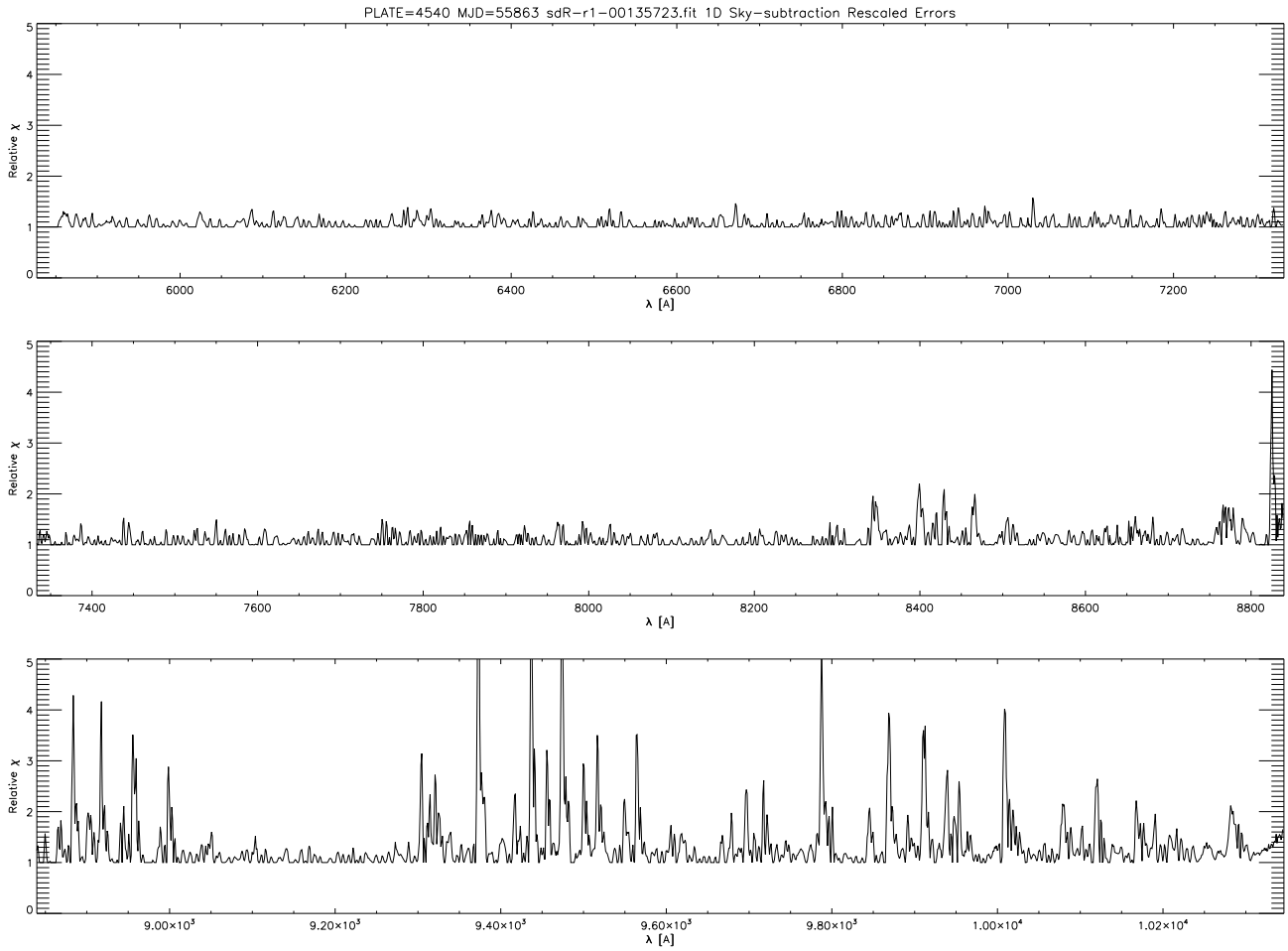

PLATE=4540 MJD=55863 Smooth superflat for sdR-r1-00135723.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

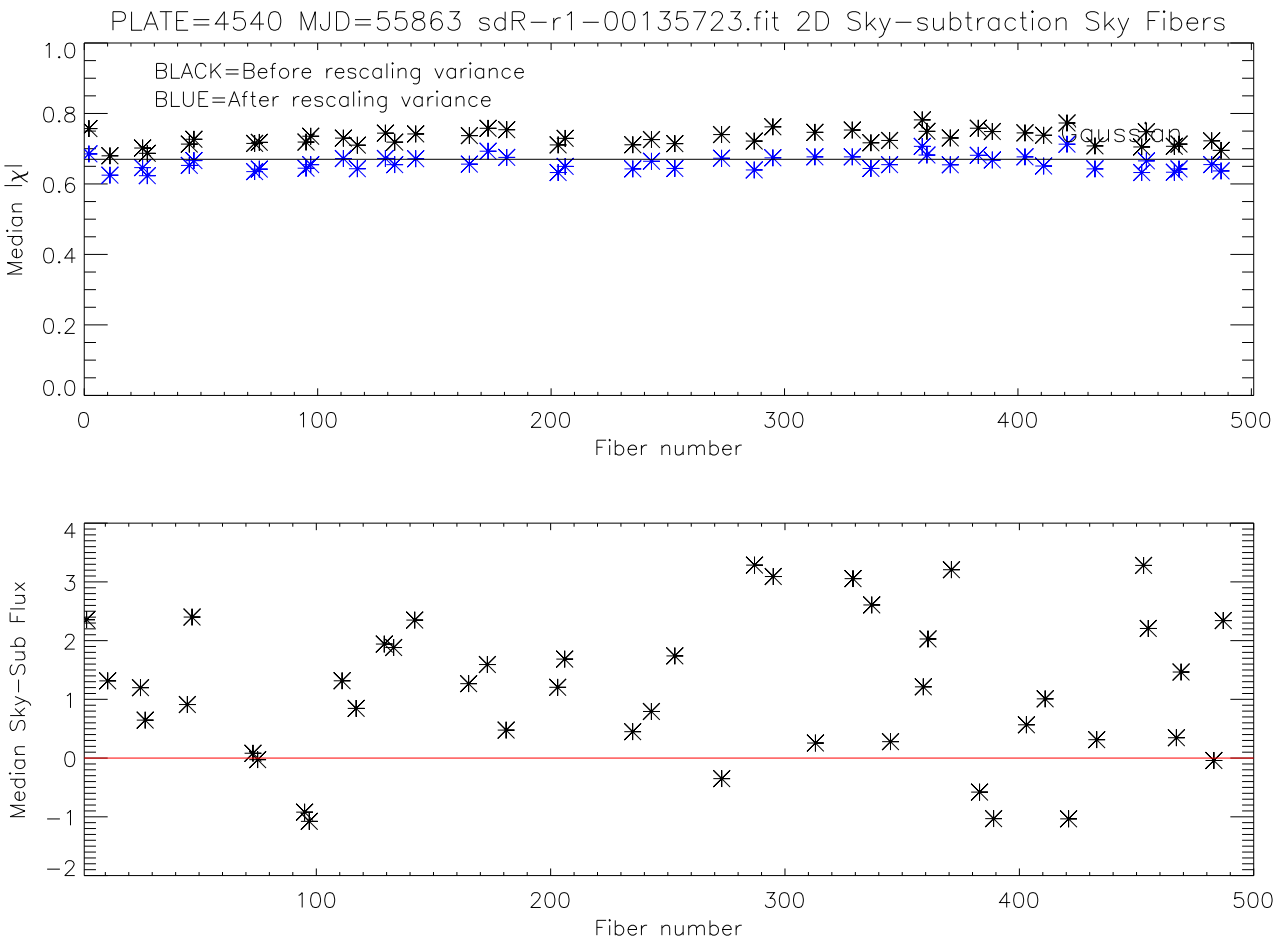

PLATE=4540 MJD=55863 sdR-r1-00135723.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

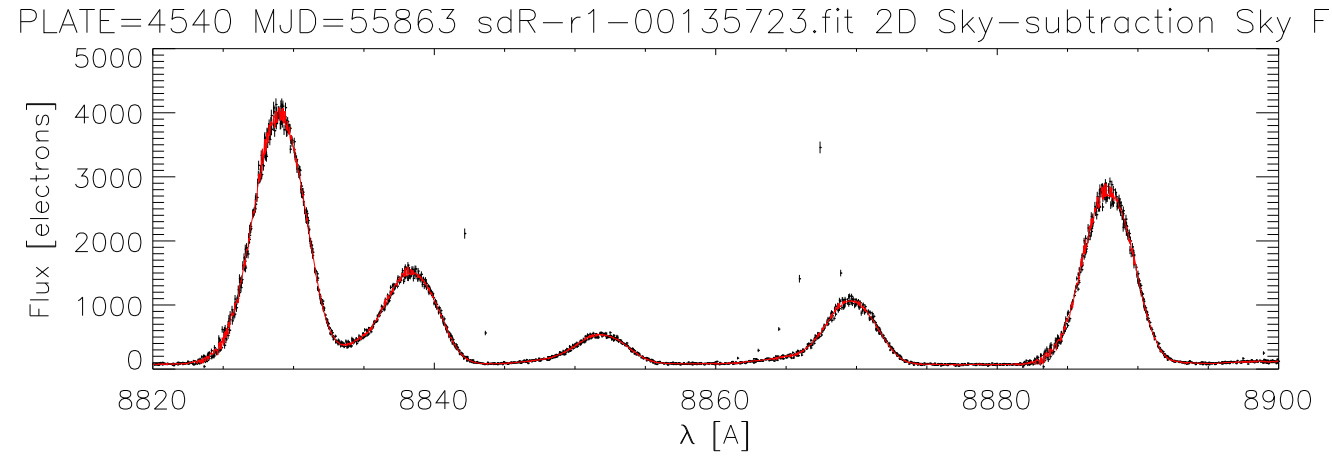

PLATE=4540 MJD=55863 sdR-r1-00135723.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

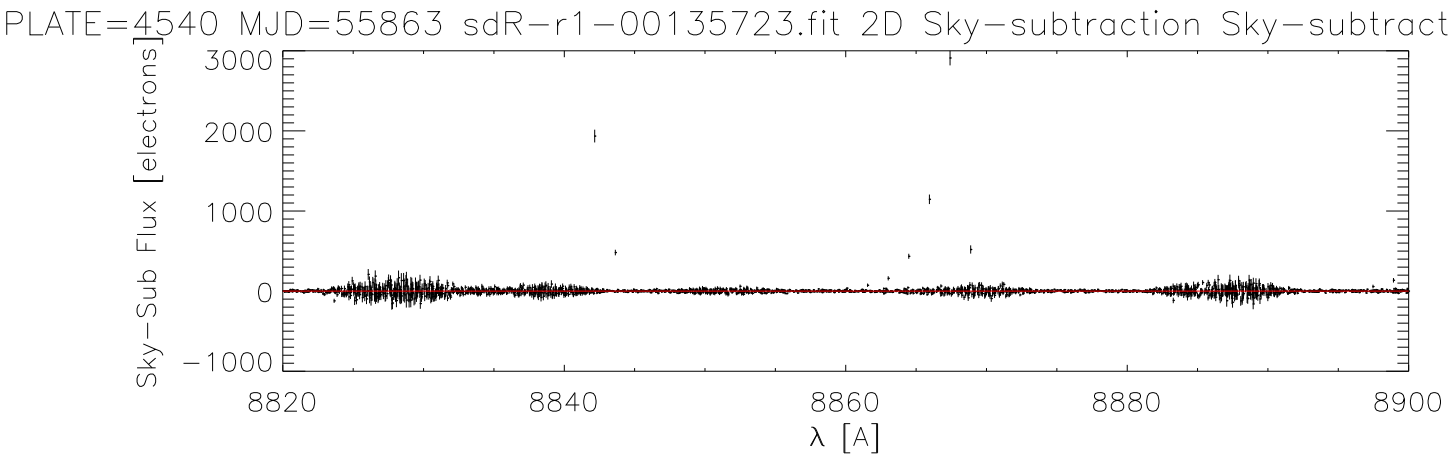

PLATE=4540 MJD=55863 sdR-r1-00135723.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 45

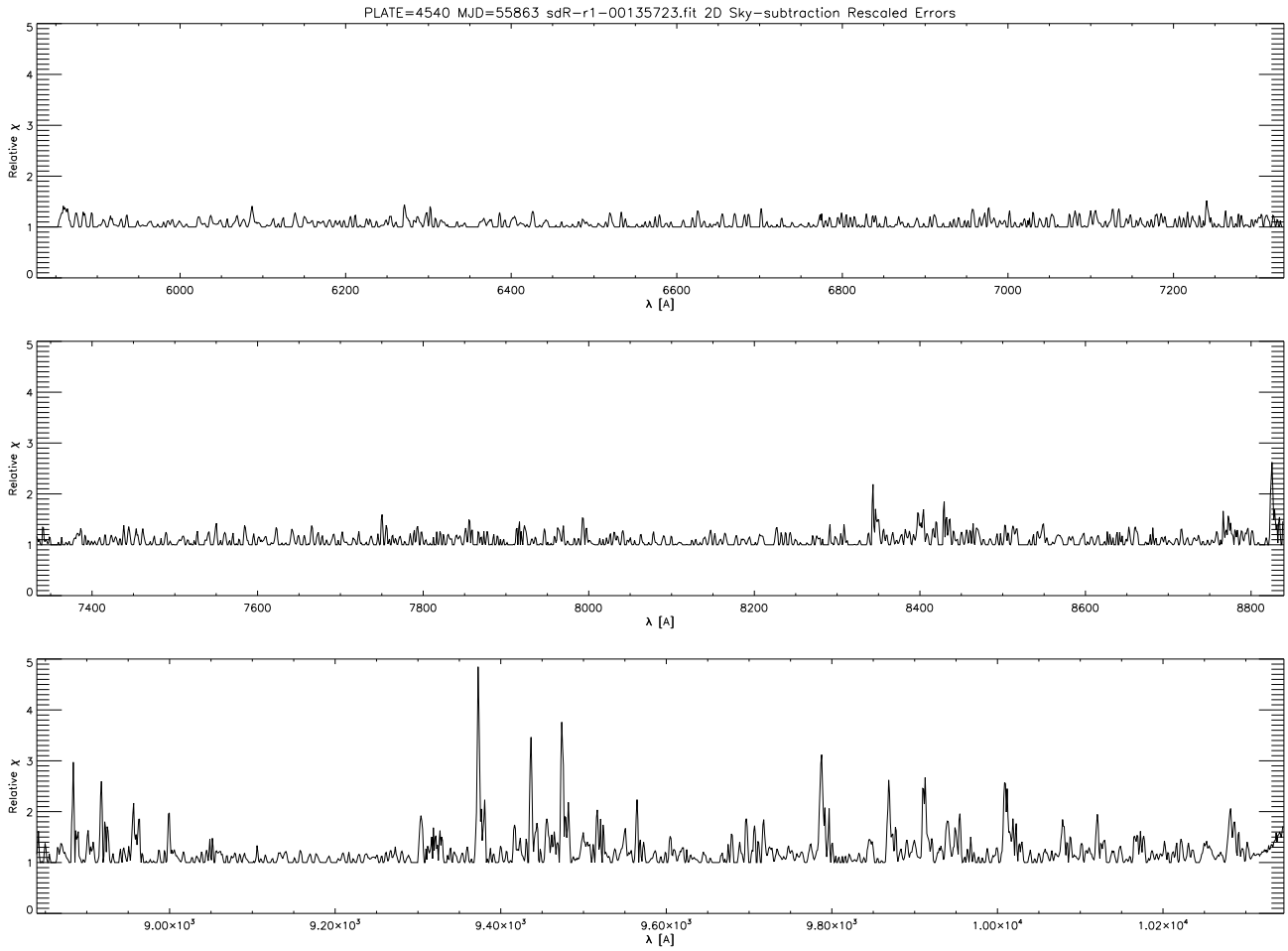


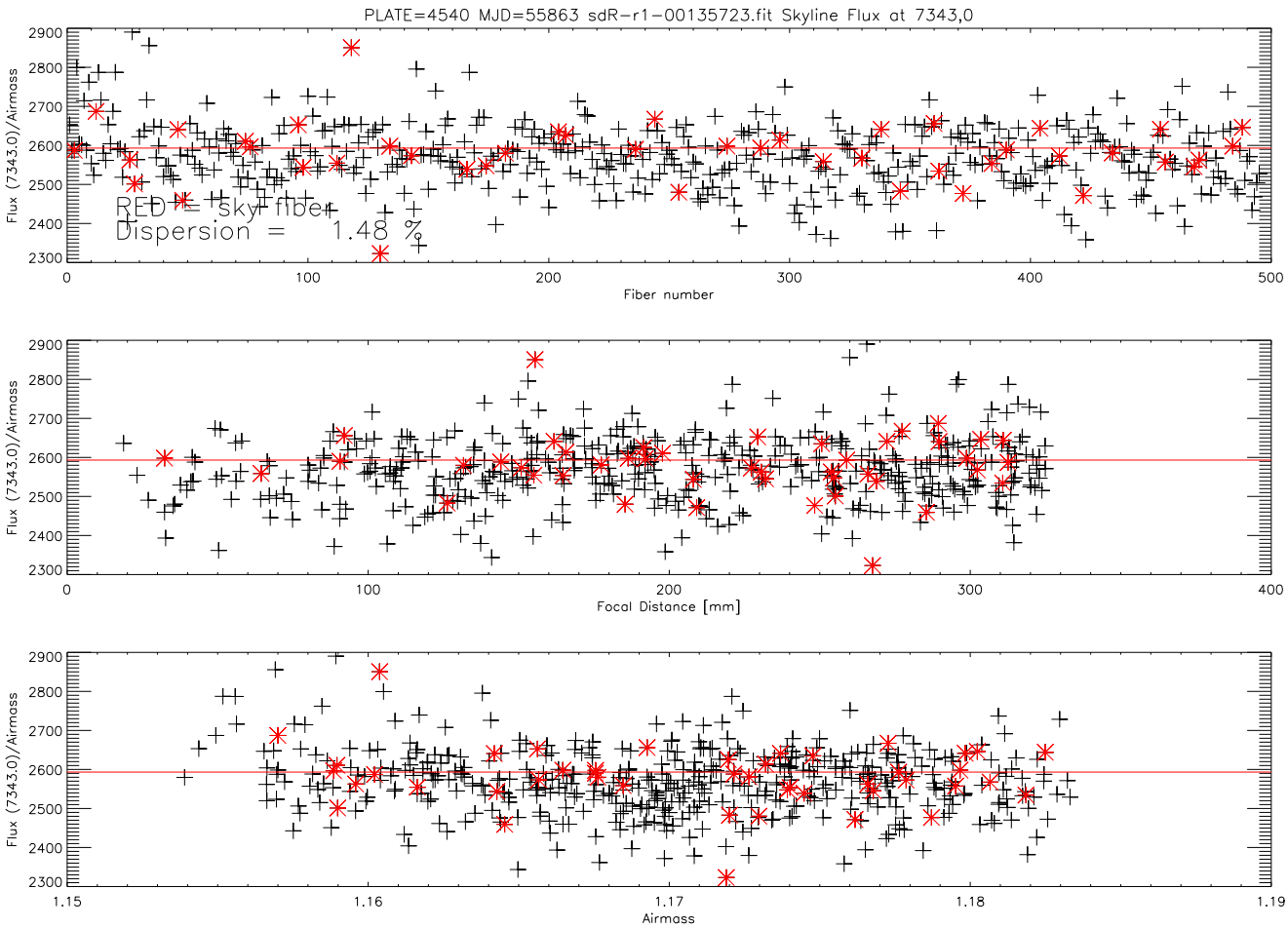

PLATE=4540 MJD=55863 sdR-r1-00135723.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

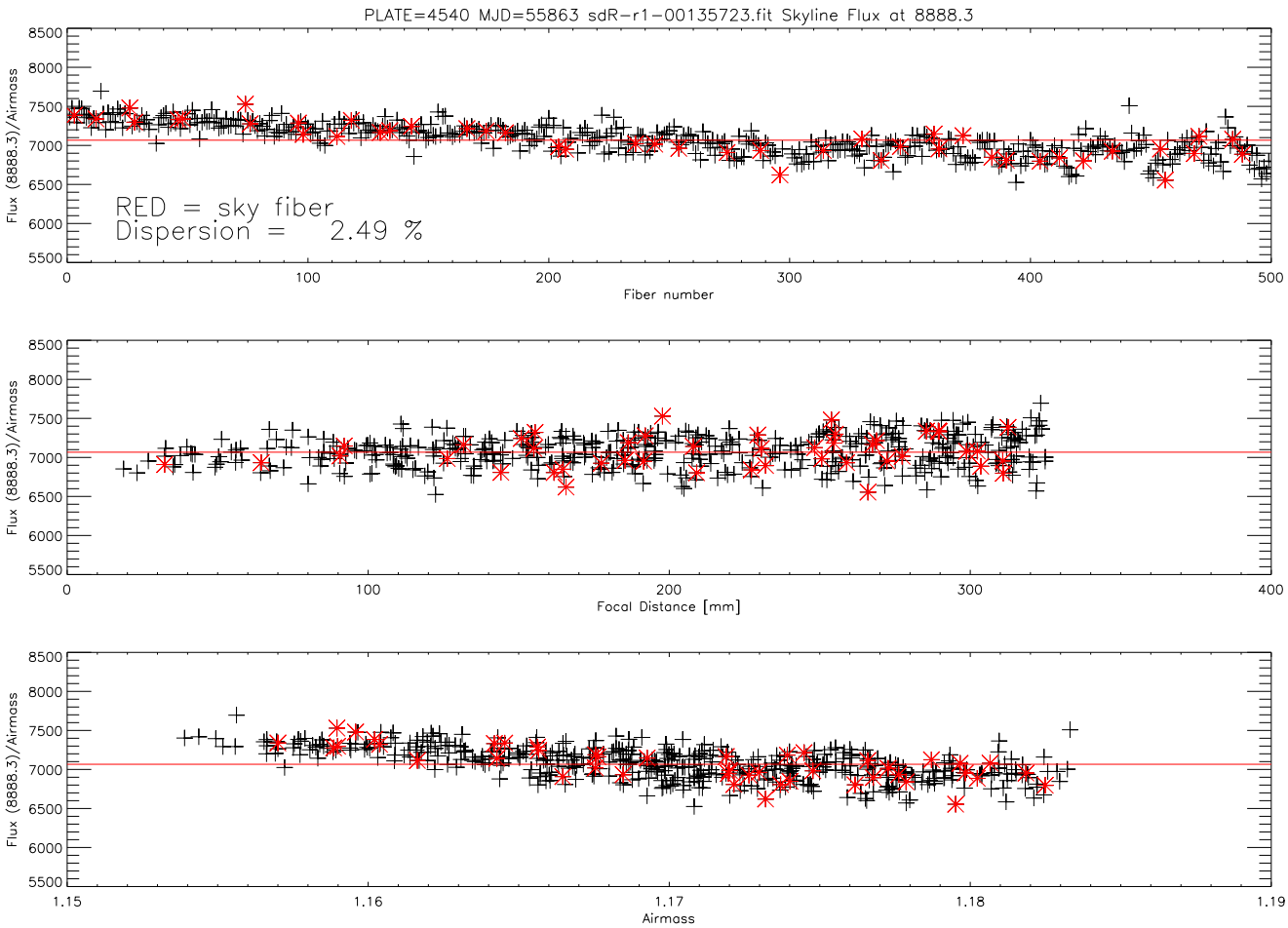

PLATE=4540 MJD=55863 sdR-r1-00135723.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]


PLATE=4540 MJD=55863 sdR-r1-00135723.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

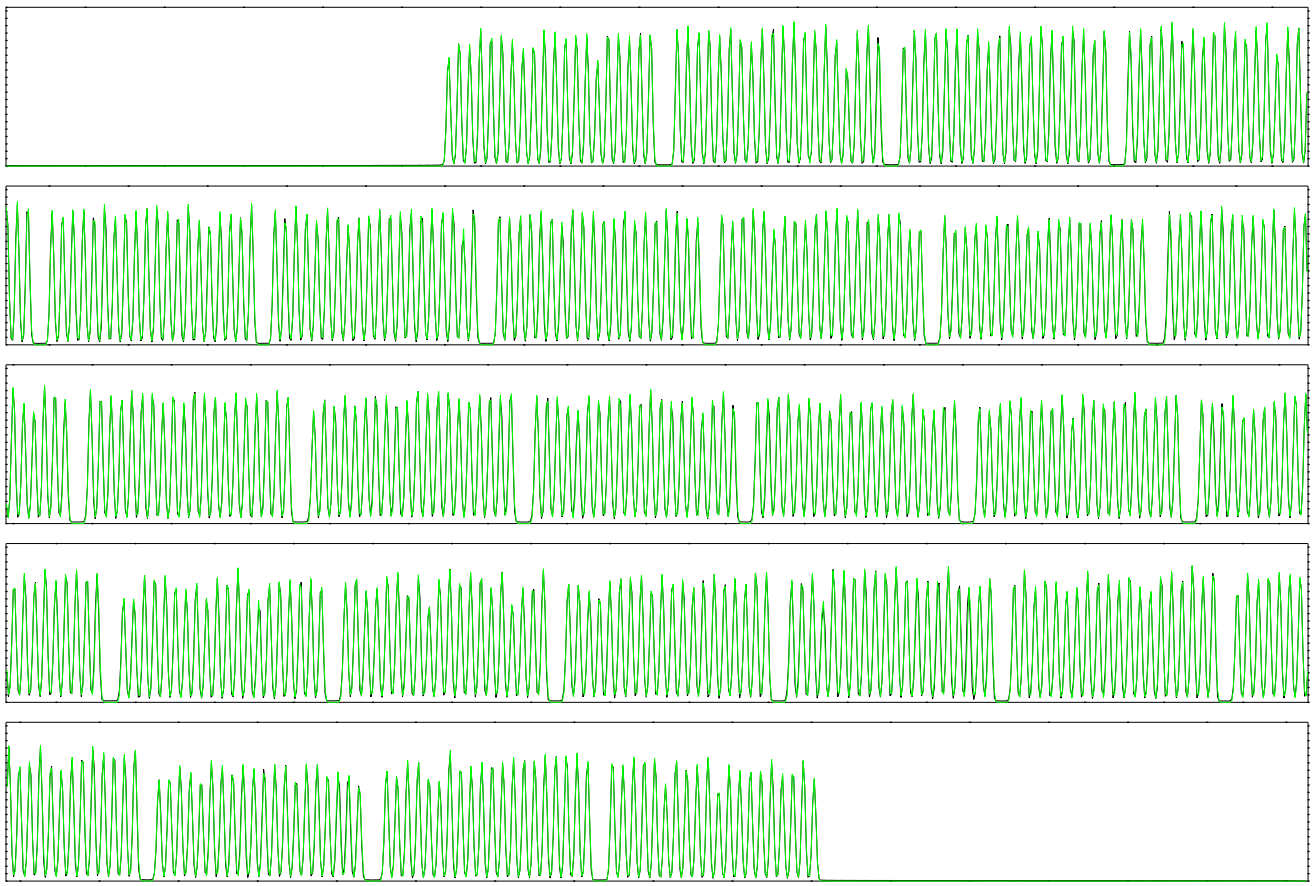
Number of sky fibers = 45

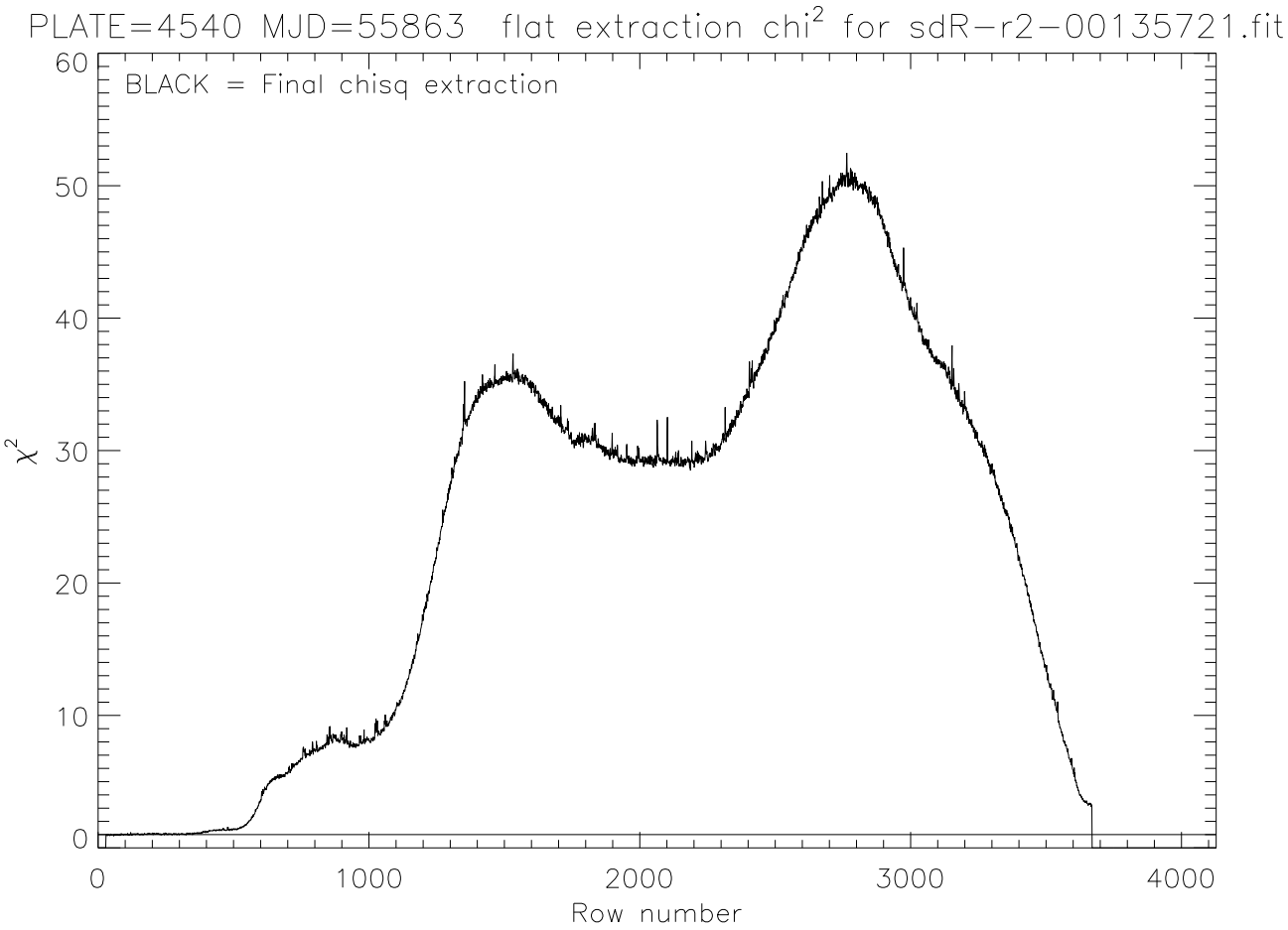


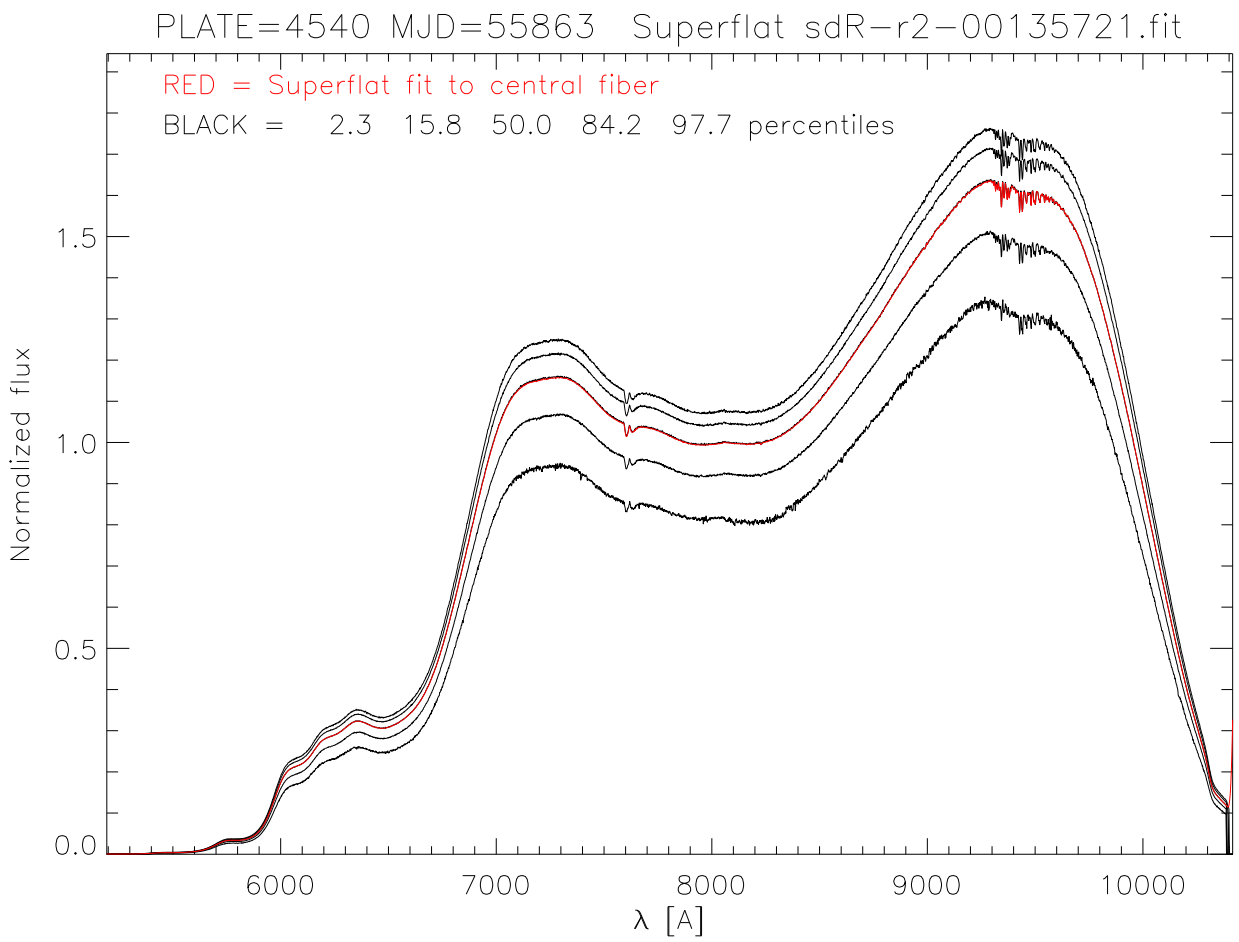

PLATE=4540 MJD=55863 sdR-r1-00135723.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.48 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

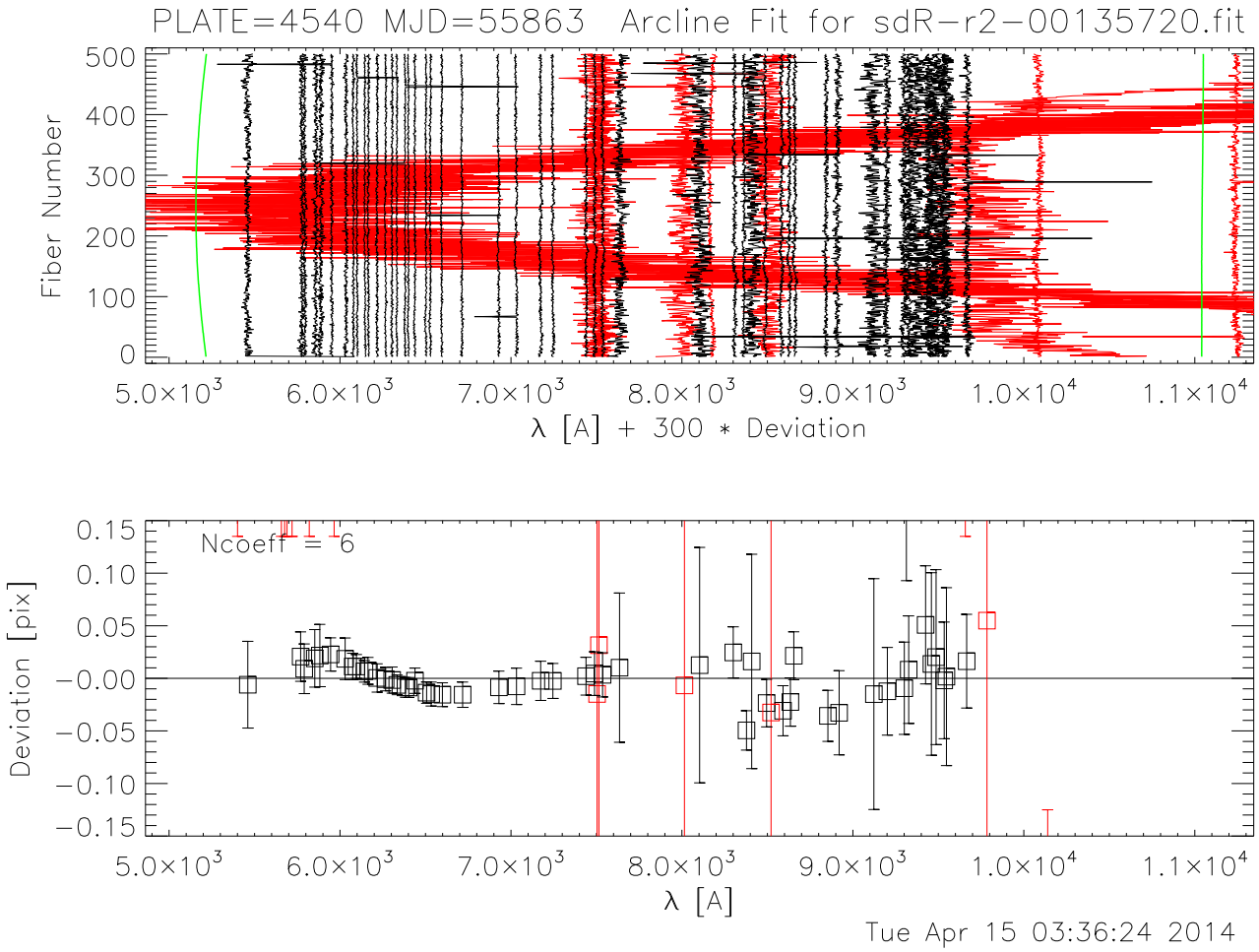

PLATE=4540 MJD=55863 sdR-r1-00135723.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.49 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

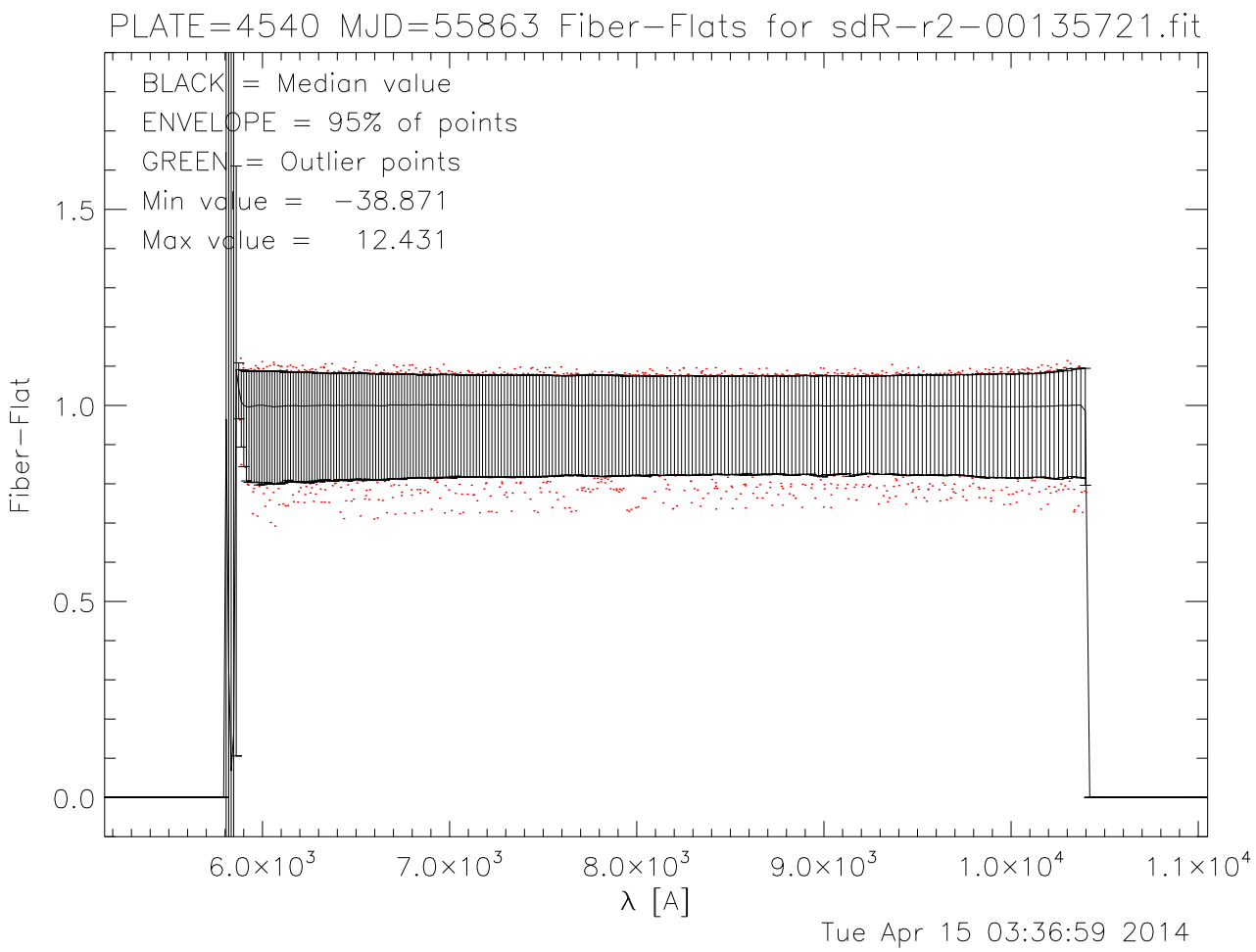
PLATE=4540 MJD=55863 Traces sdR-r2-00135721.fit

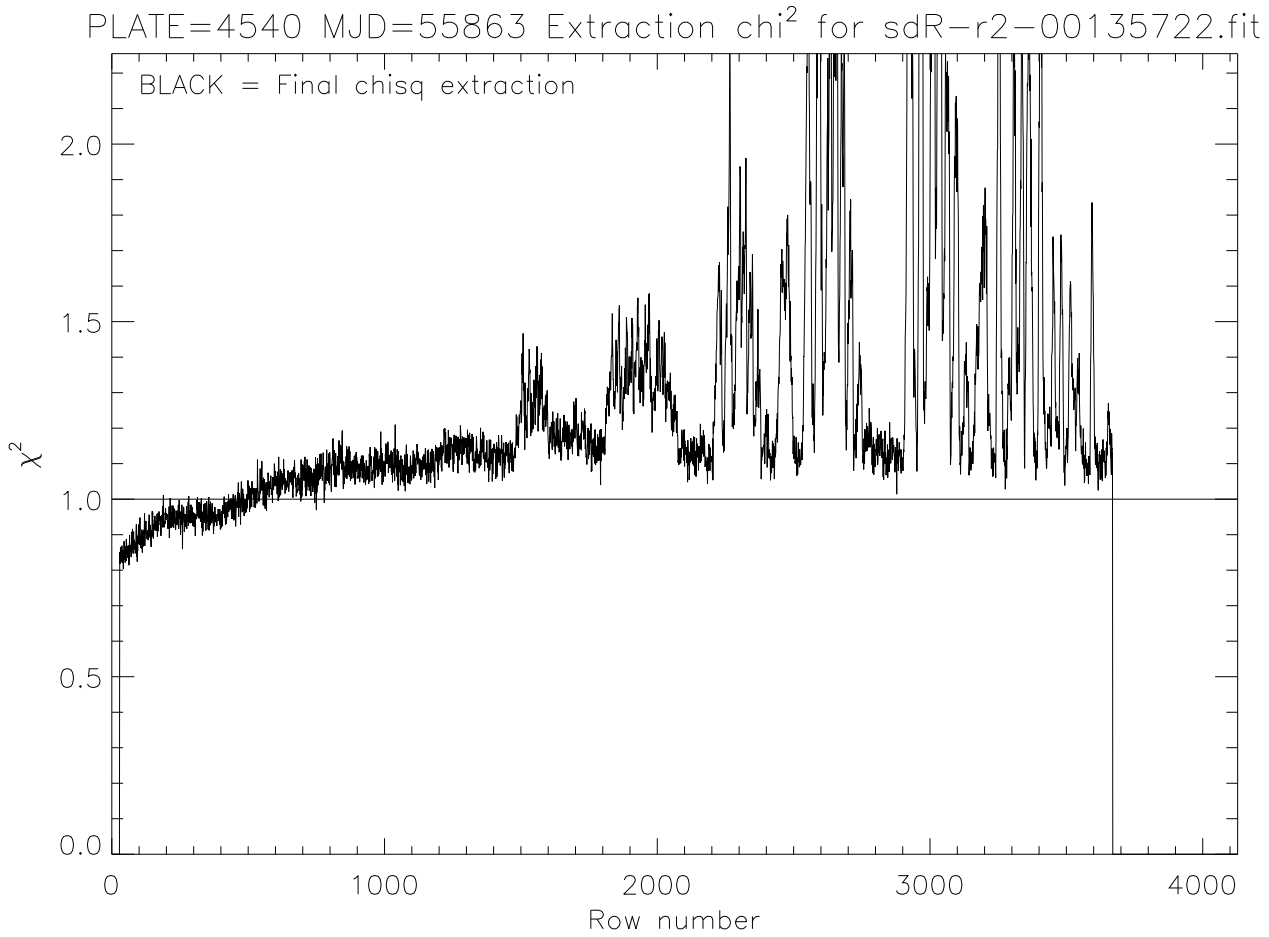


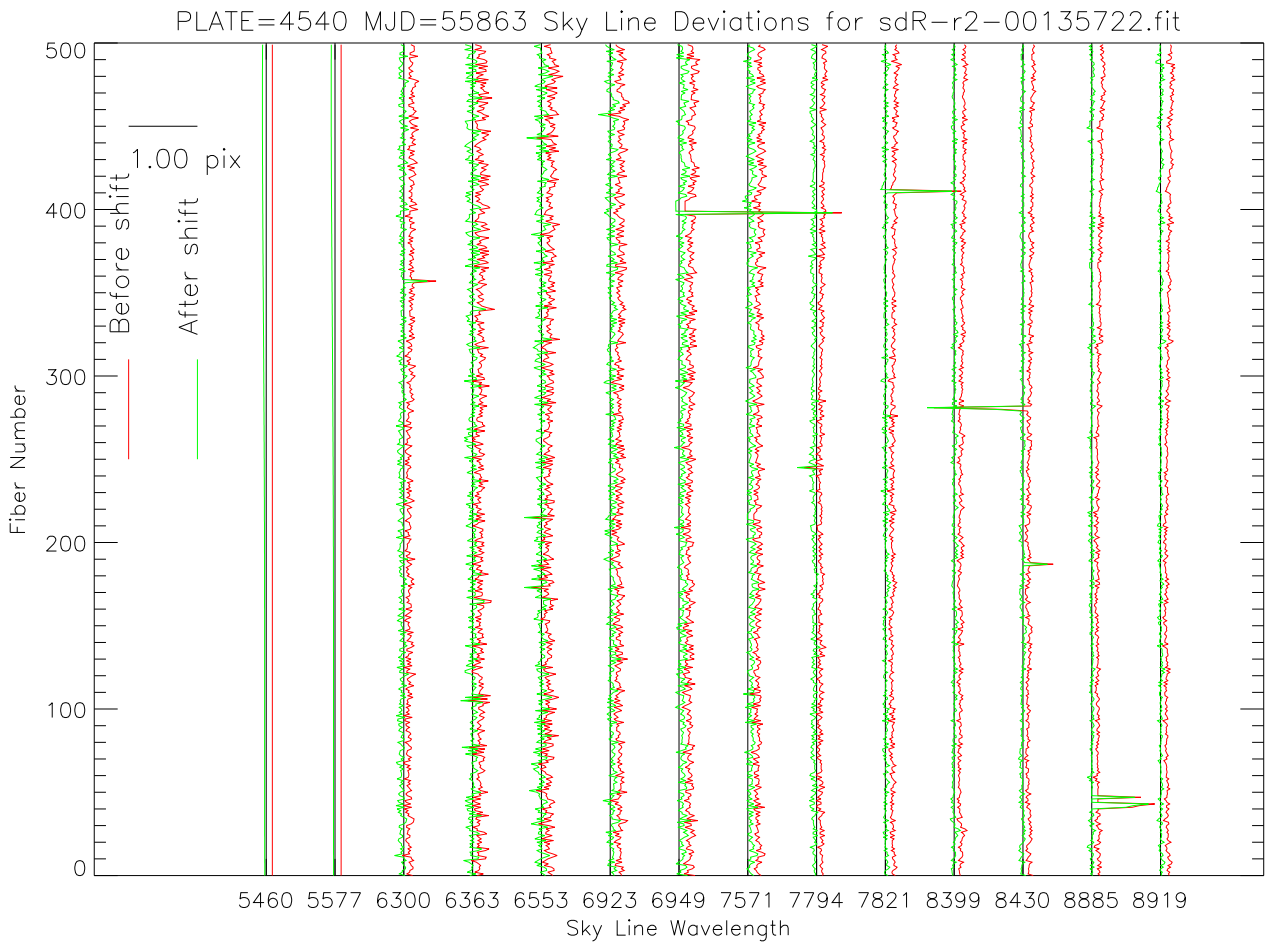

PLATE=4540 MJD=55863 flat extraction chi^2 for sdR-r2-00135721.fit
BLACK = Final chisq extraction
χ^2
Row number
0
10
20
30
40
50
60
0
1000
2000
3000
4000

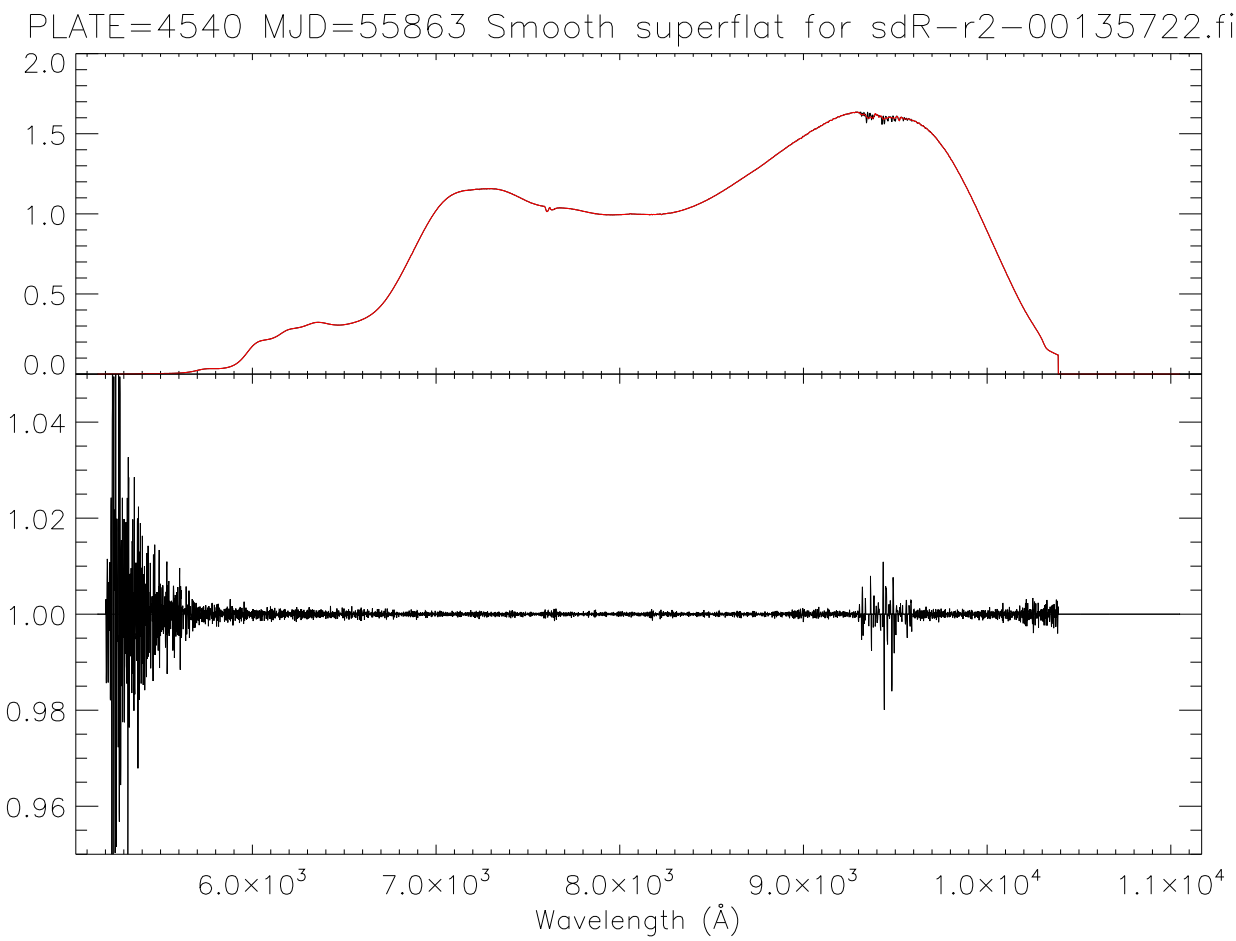

PLATE=4540 MJD=55863 Superflat sdR-r2-00135721.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
0.0
0.5
1.0
1.5
6000
7000
8000
9000
10000
λ [A]

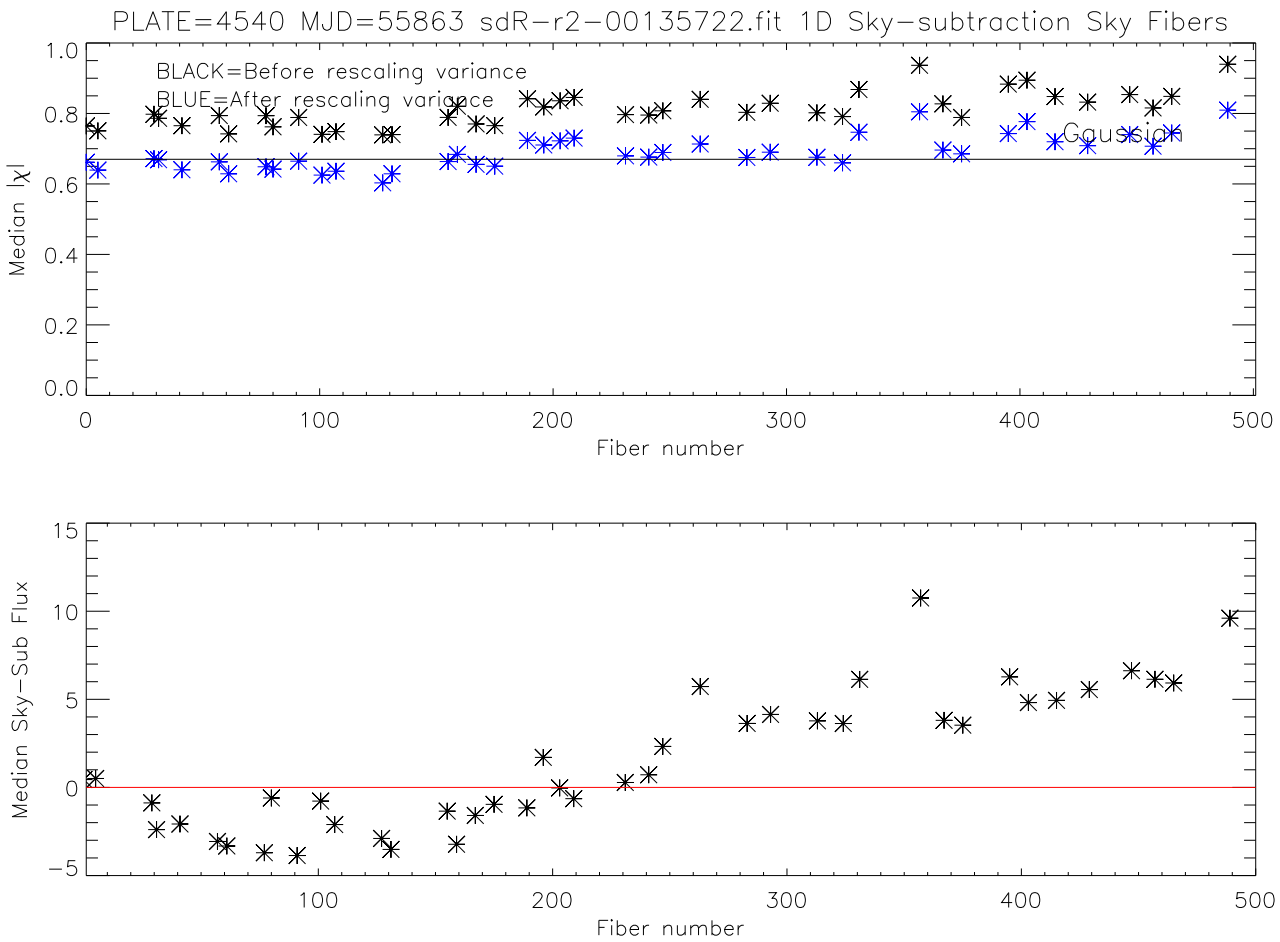

PLATE=4540 MJD=55863 Arcline Fit for sdR-r2-00135720.fit
Fiber Number
500
400
300
200
100
0
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A] + 300 * Deviation
Ncoeff = 6
Deviation [pix]
0.15
0.10
0.05
−0.00
−0.05
−0.10
−0.15
λ [A]
Tue Apr 15 03:36:24 2014

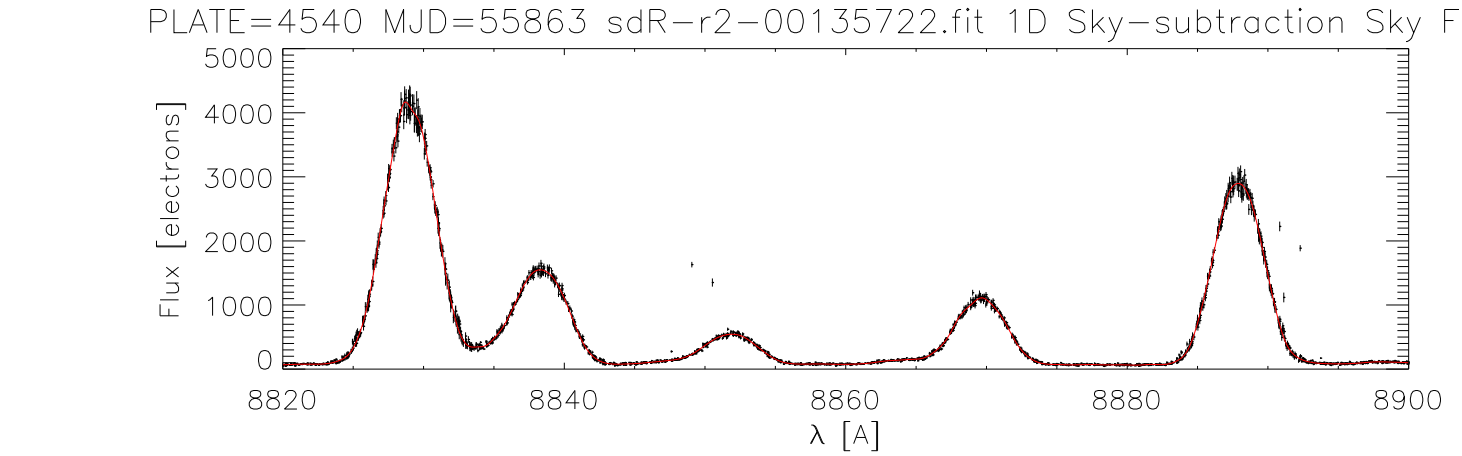

PLATE=4540 MJD=55863 Fiber−Flats for sdR−r2−00135721.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −38.871
Max value = 12.431
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Tue Apr 15 03:36:59 2014

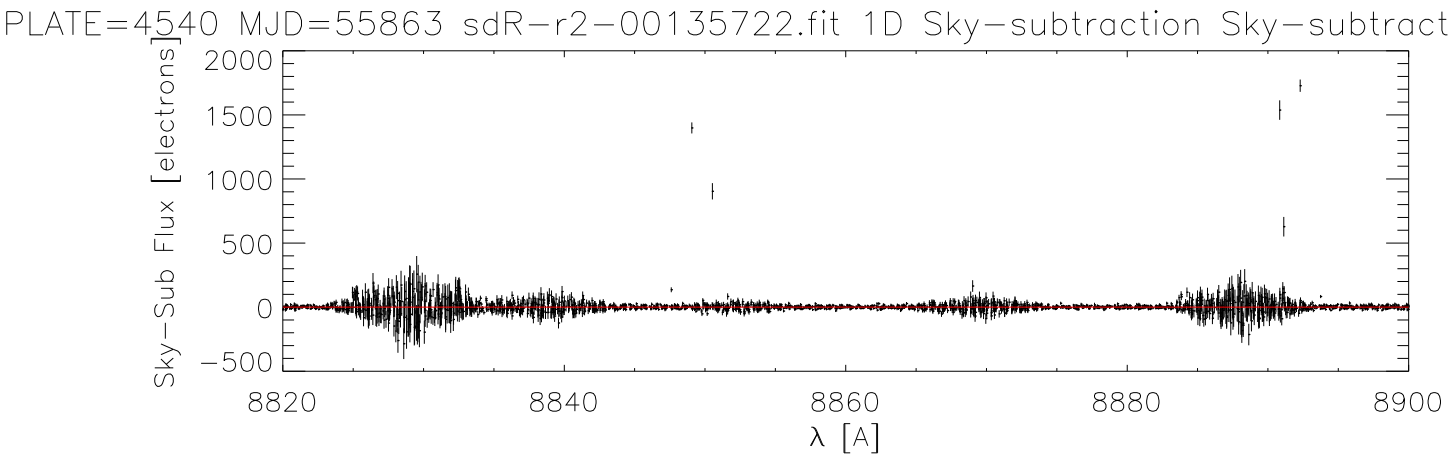

PLATE=4540 MJD=55863 Extraction chi^2 for sdR−r2−00135722.fit
BLACK = Final chisq extraction
2.0
1.5
1.0
0.5
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=4540 MJD=55863 Sky Line Deviations for sdR-r2-00135722.fit
1.00 pix
Before shift
After shift
Fiber Number
0
100
200
300
400
500
5460 5577 6300 6363 6553 6923 6949 7571 7794 7821 8399 8430 8885 8919
Sky Line Wavelength

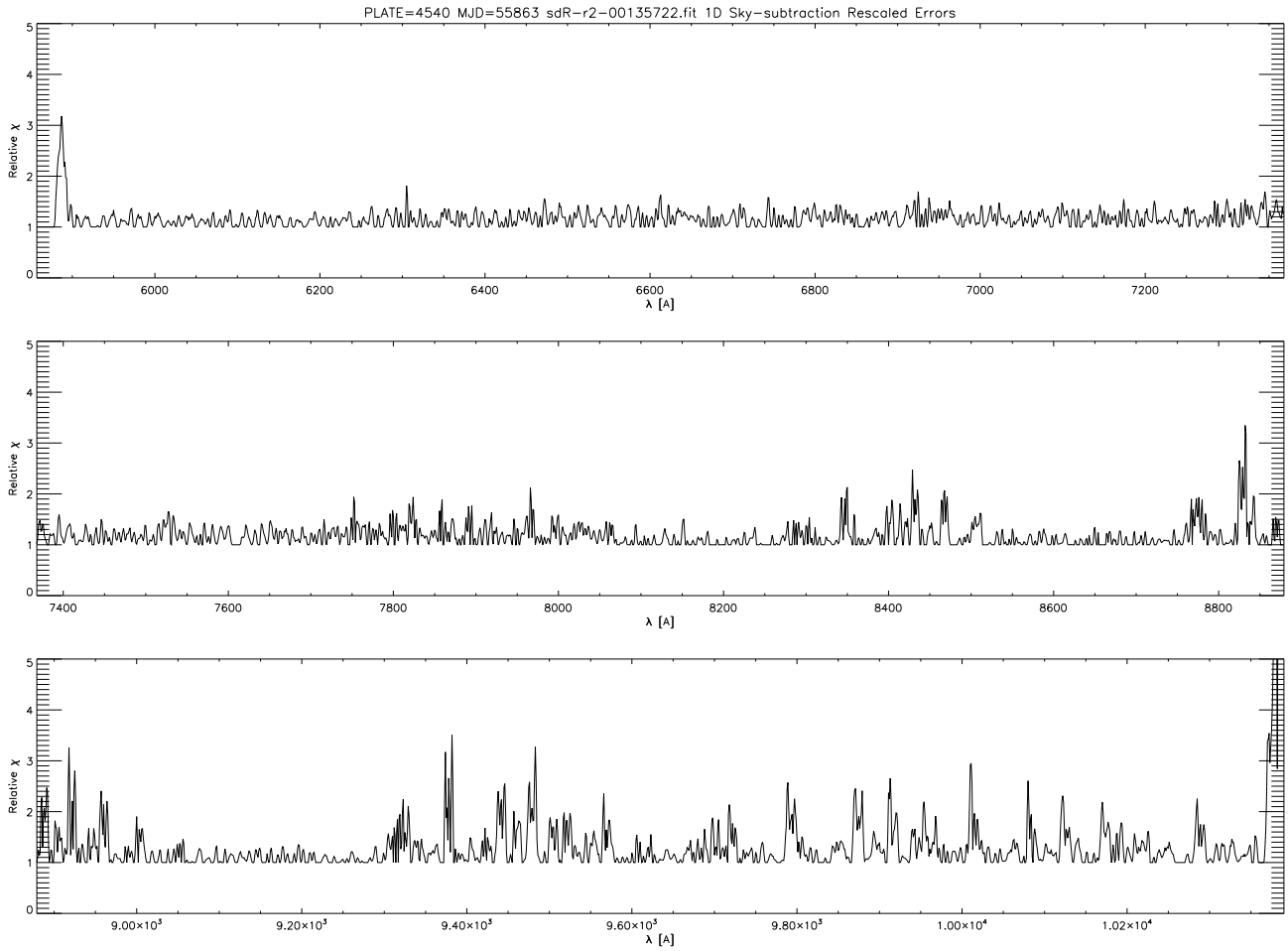

PLATE=4540 MJD=55863 Smooth superflat for sdR-r2-00135722.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

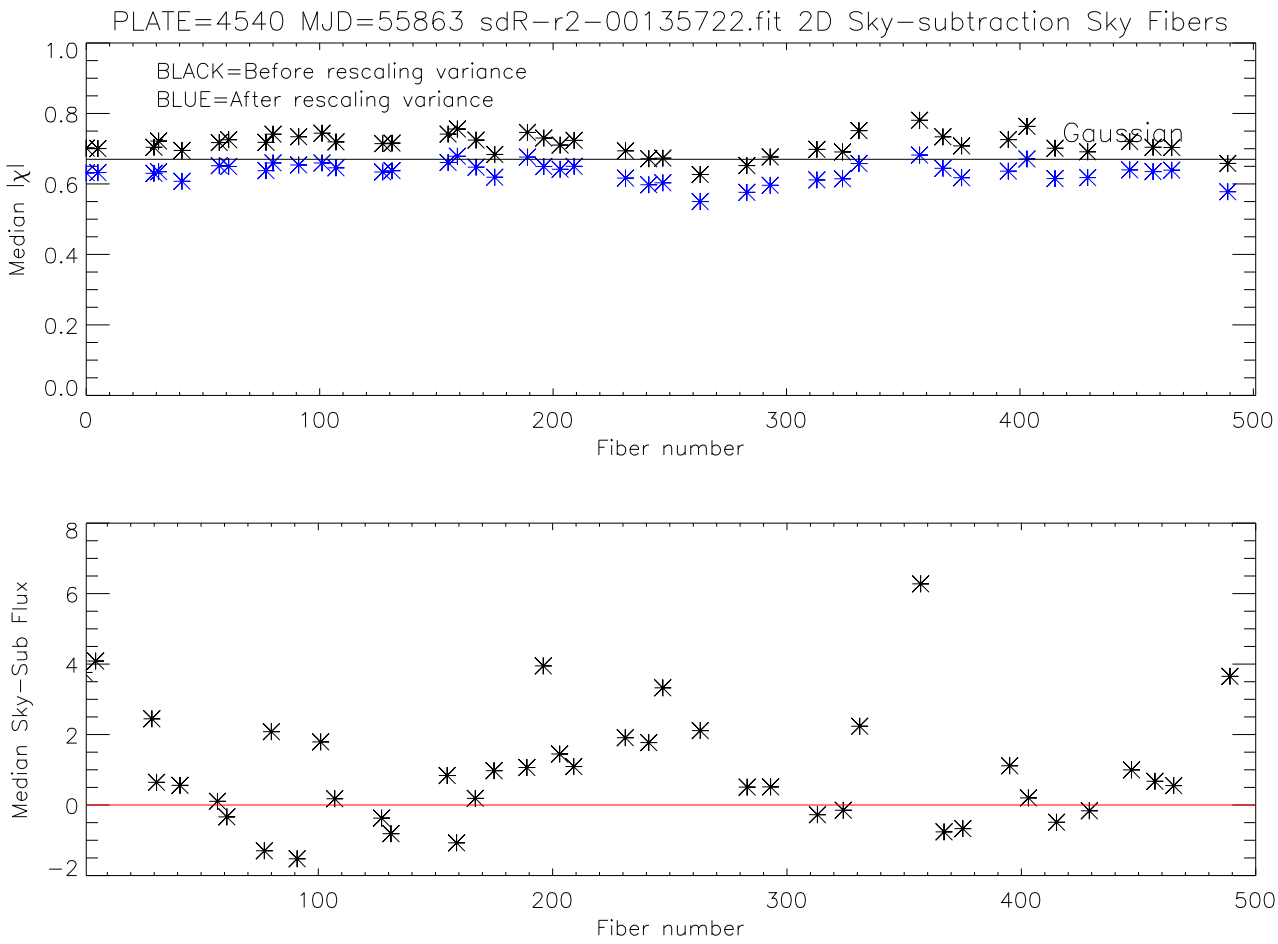

PLATE=4540 MJD=55863 sdR-r2-00135722.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number


PLATE=4540 MJD=55863 sdR-r2-00135722.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

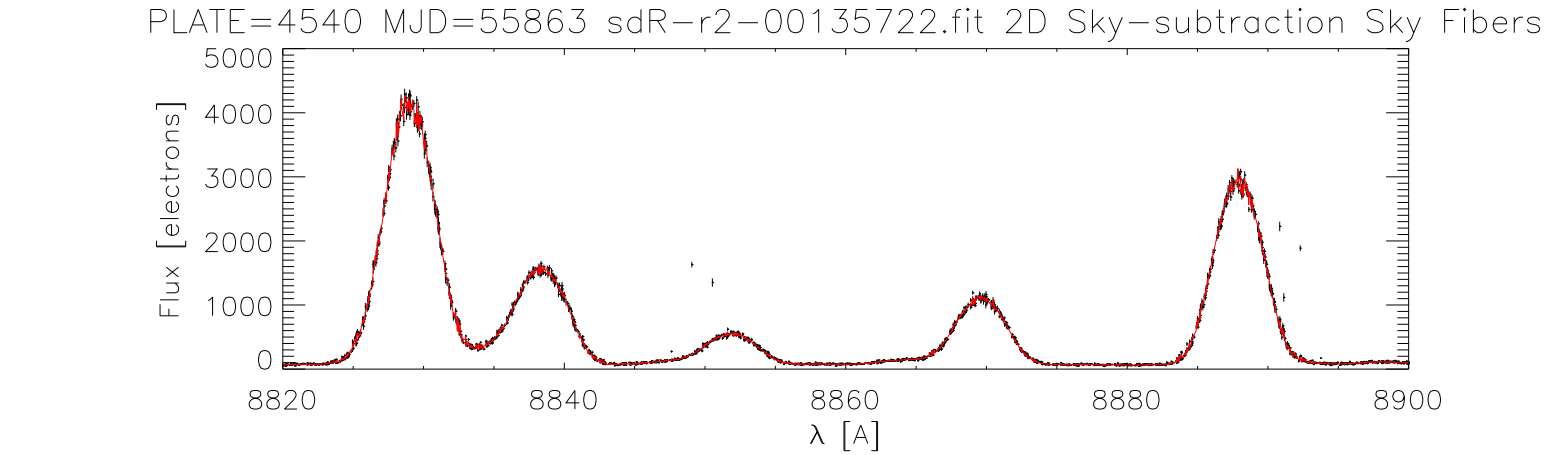

PLATE=4540 MJD=55863 sdR-r2-00135722.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

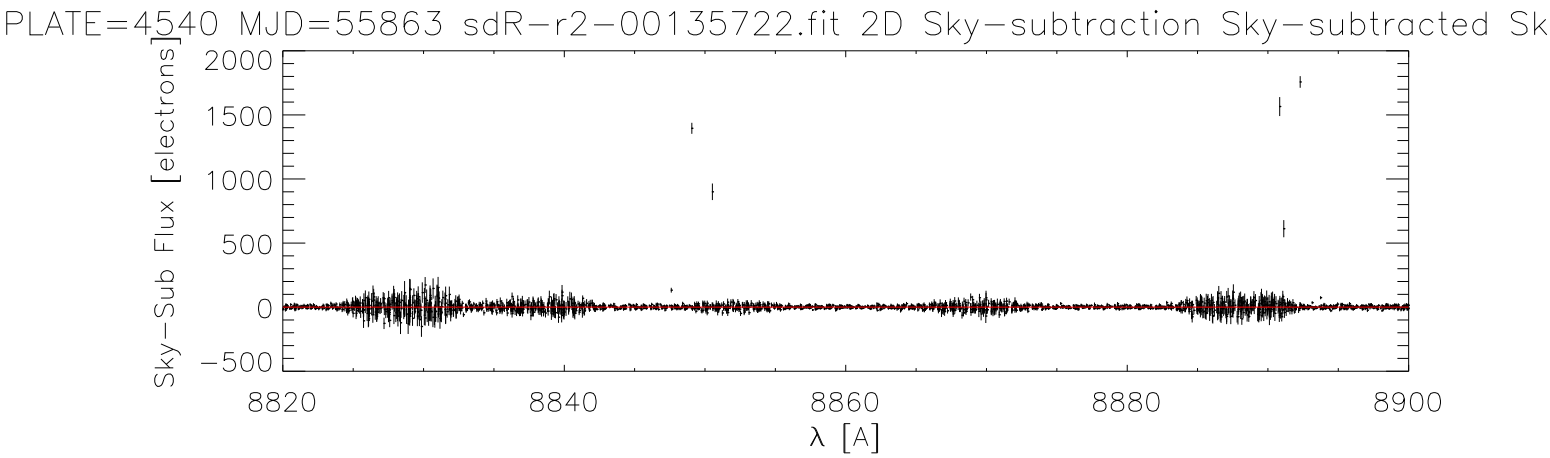
Number of sky fibers = 42



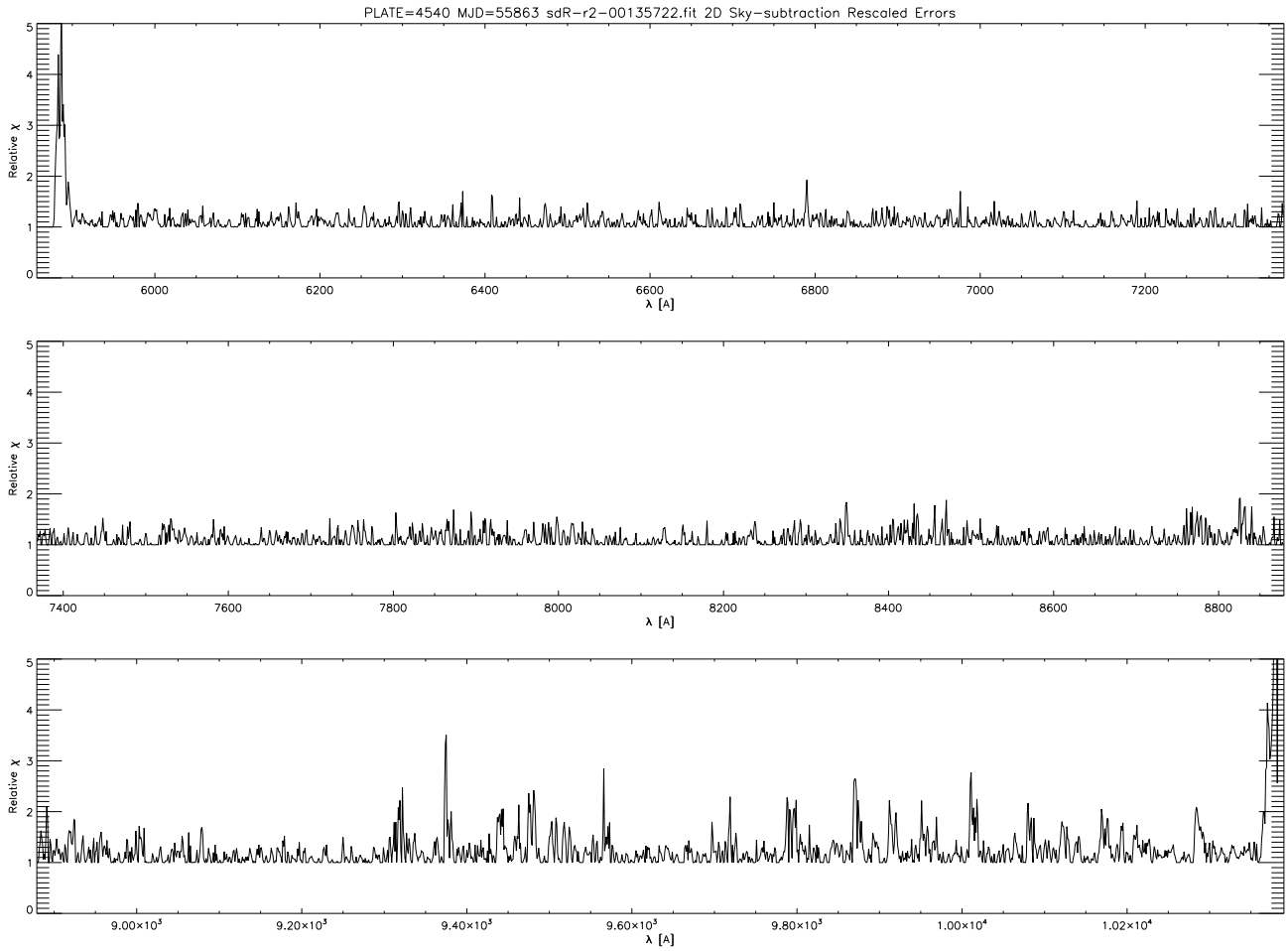

PLATE=4540 MJD=55863 sdR-r2-00135722.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
1.0
0.8
0.6
0.4
0.2
0.0
0
100
200
300
400
500

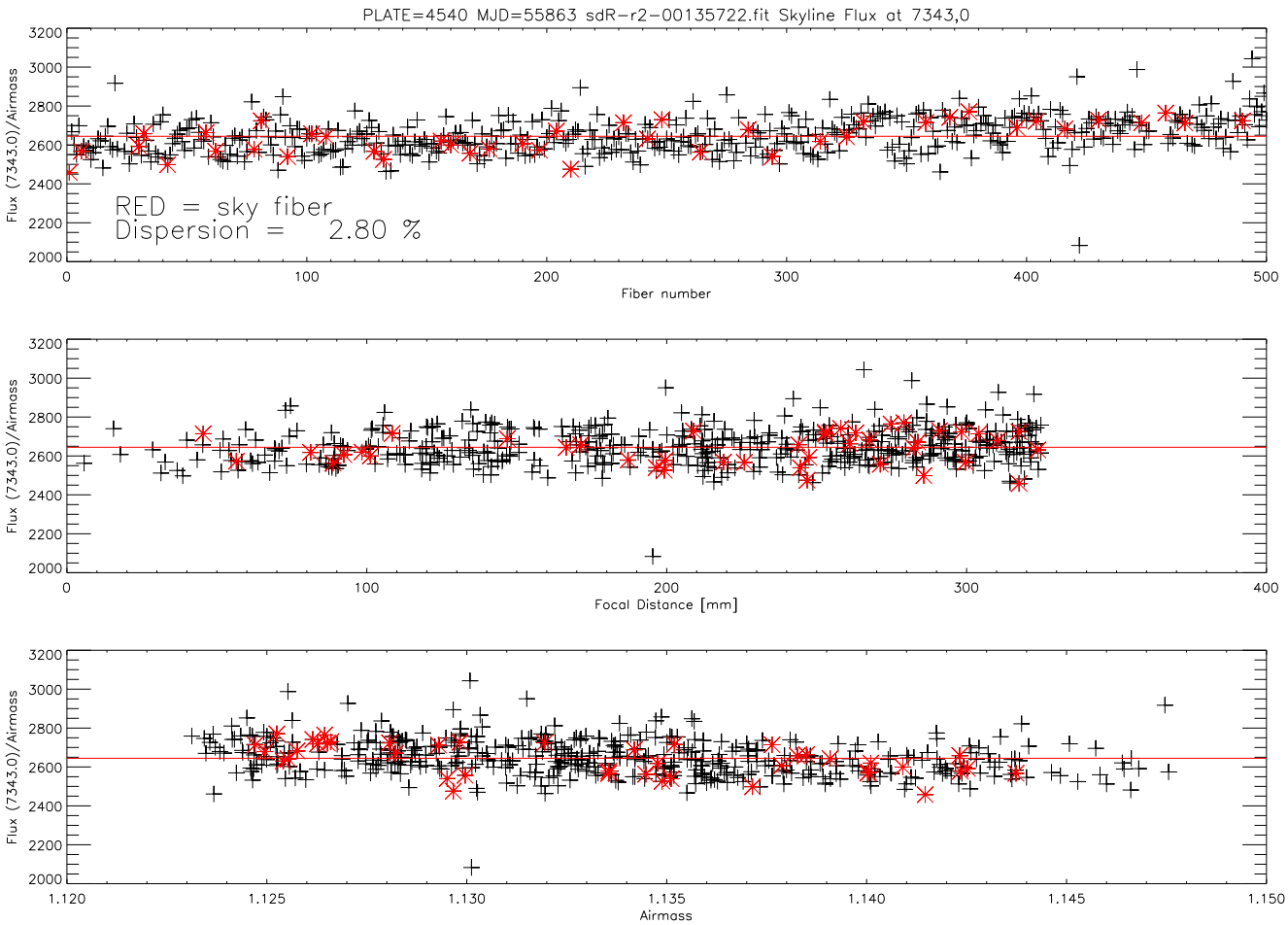
Median Sky-Sub Flux
Fiber number
8
6
4
2
0
−2
100
200
300
400
500

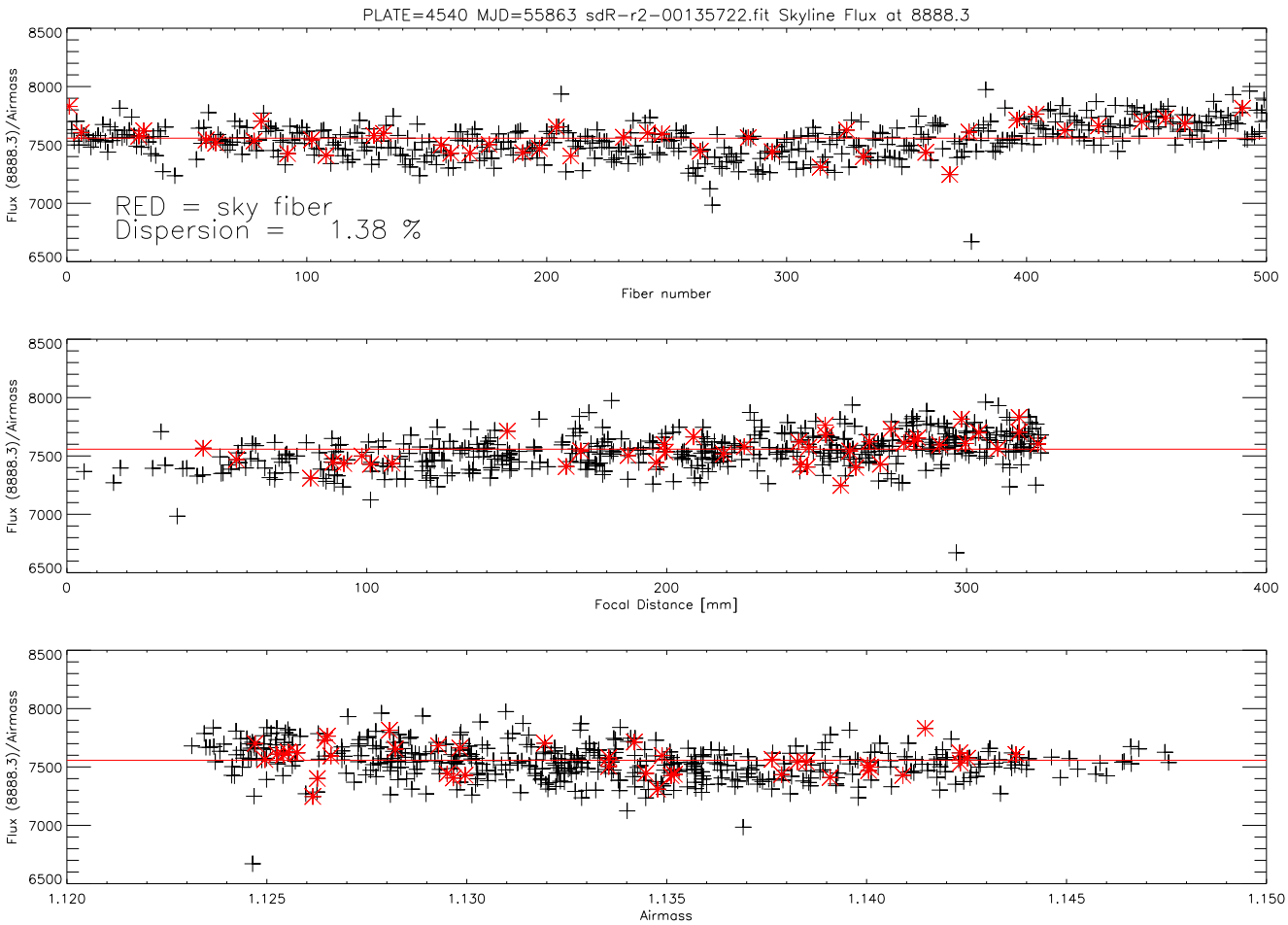

PLATE=4540 MJD=55863 sdR-r2-00135722.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

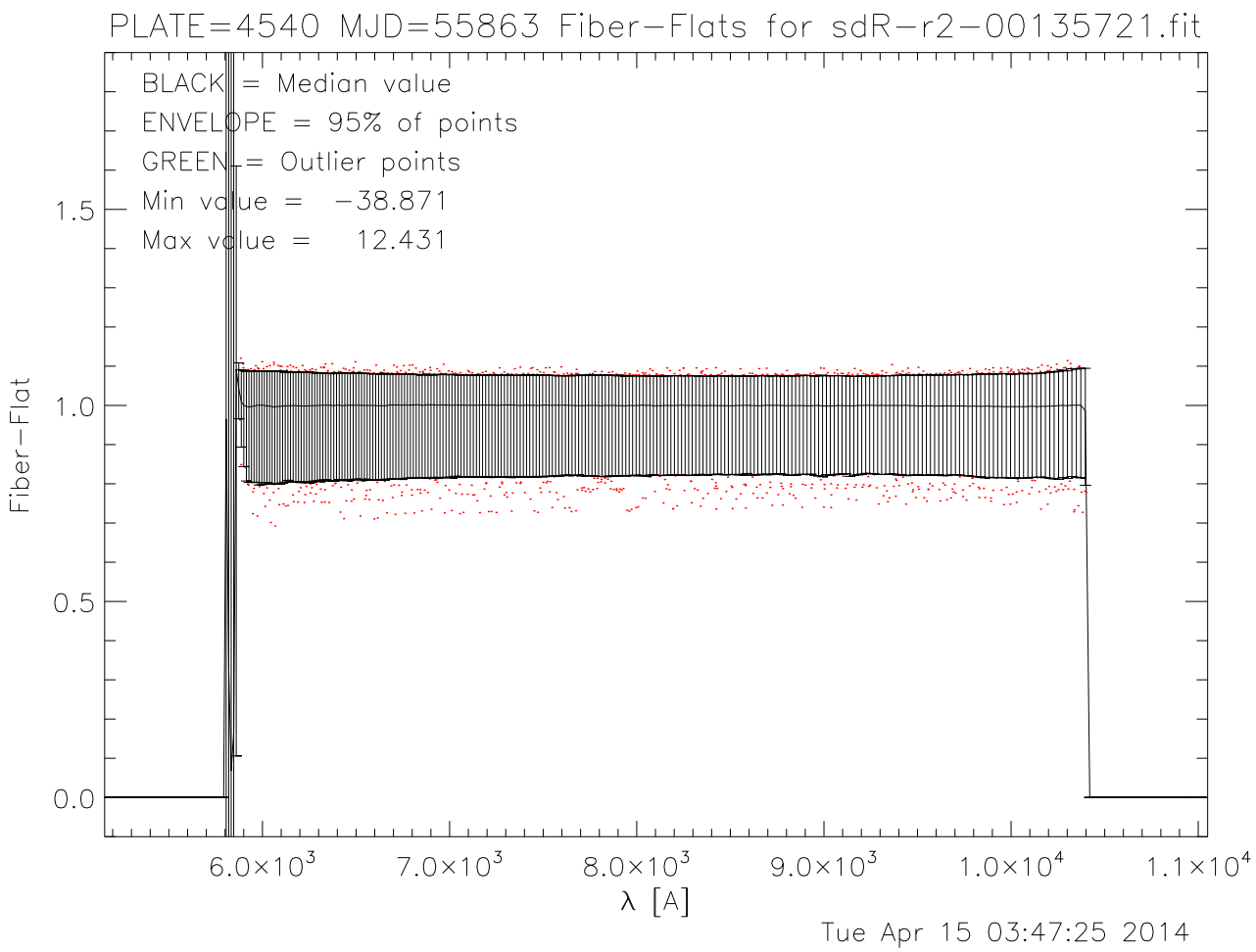

PLATE=4540 MJD=55863 sdR-r2-00135722.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

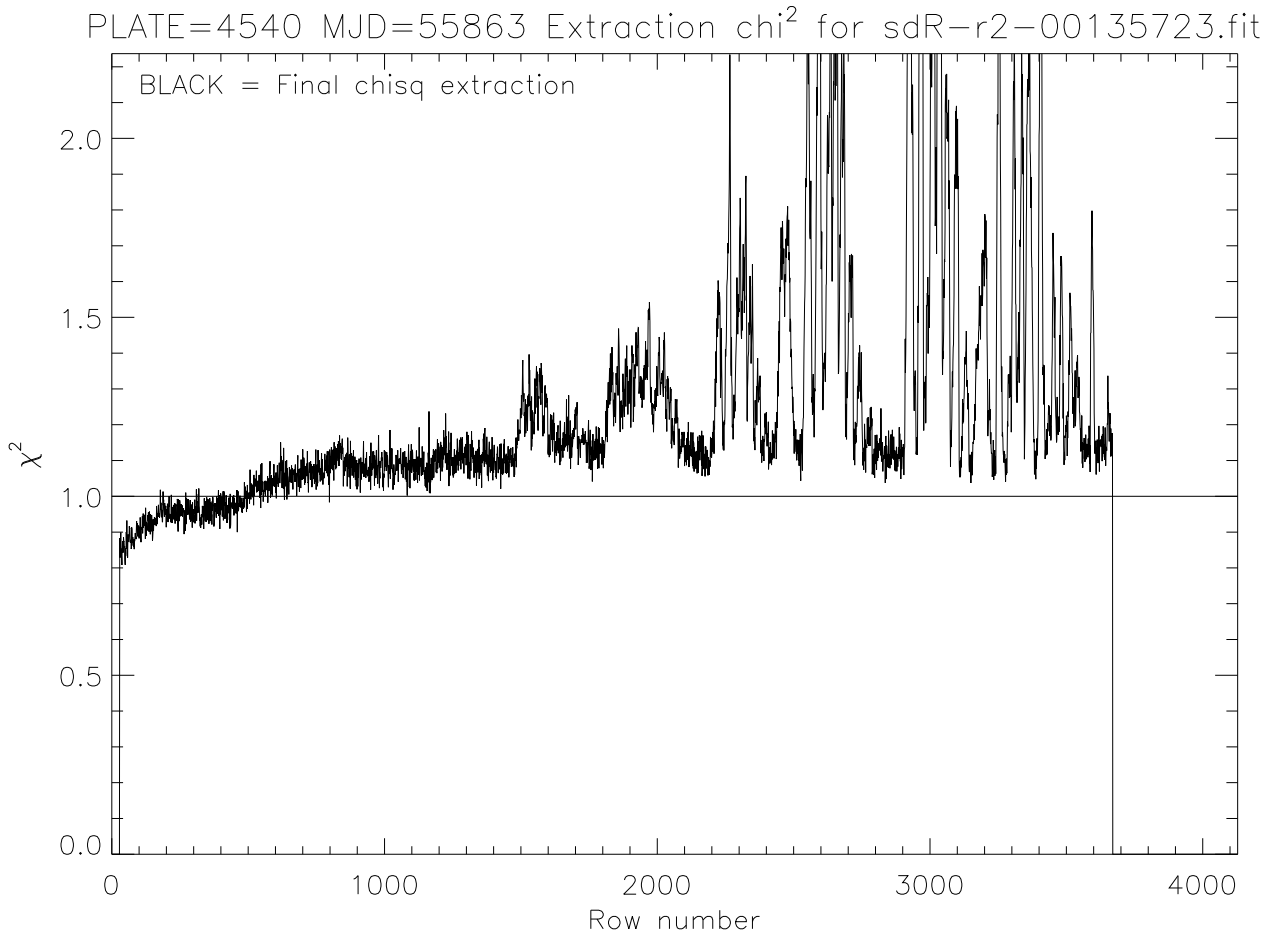
Number of sky fibers = 42

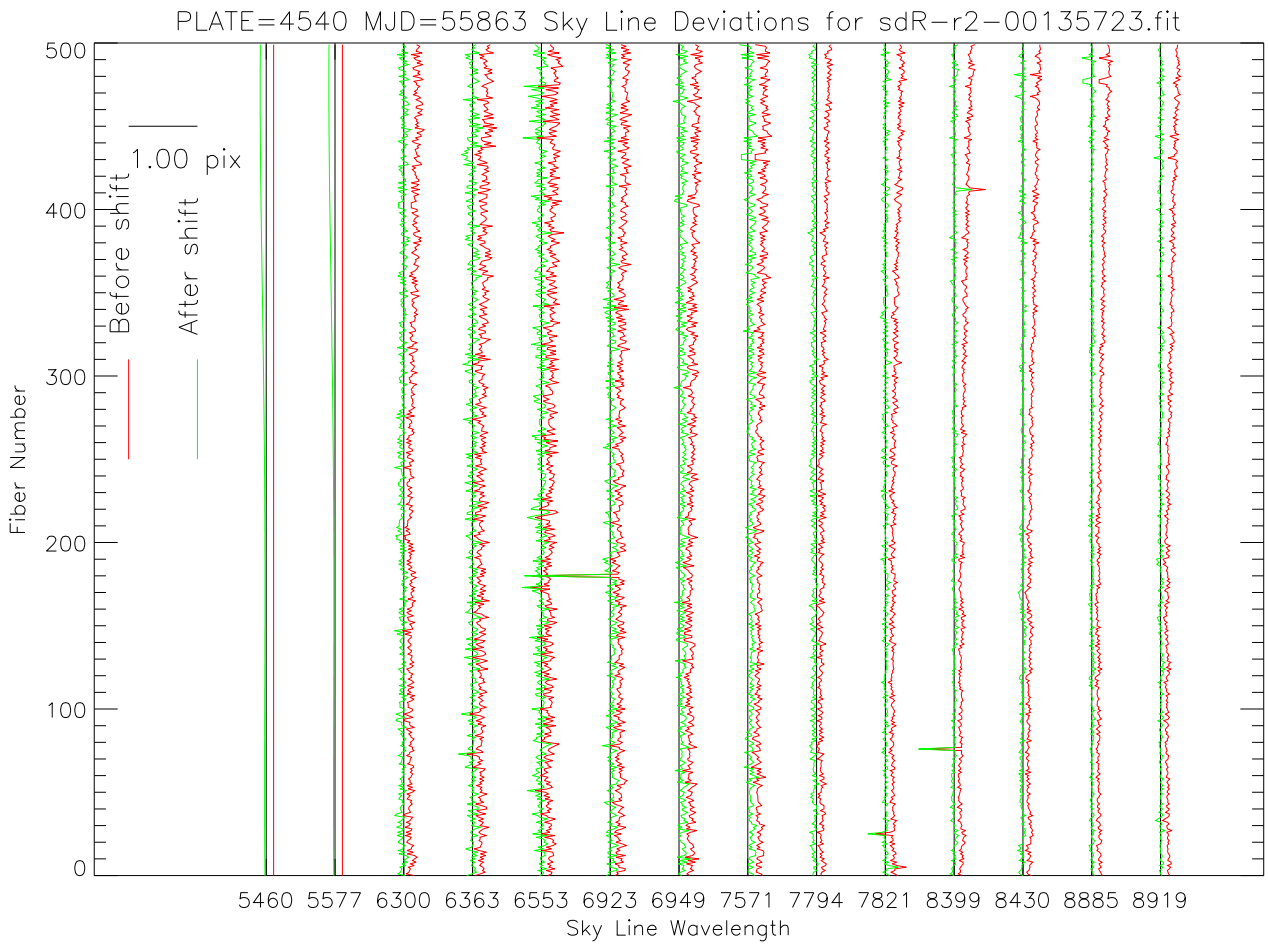


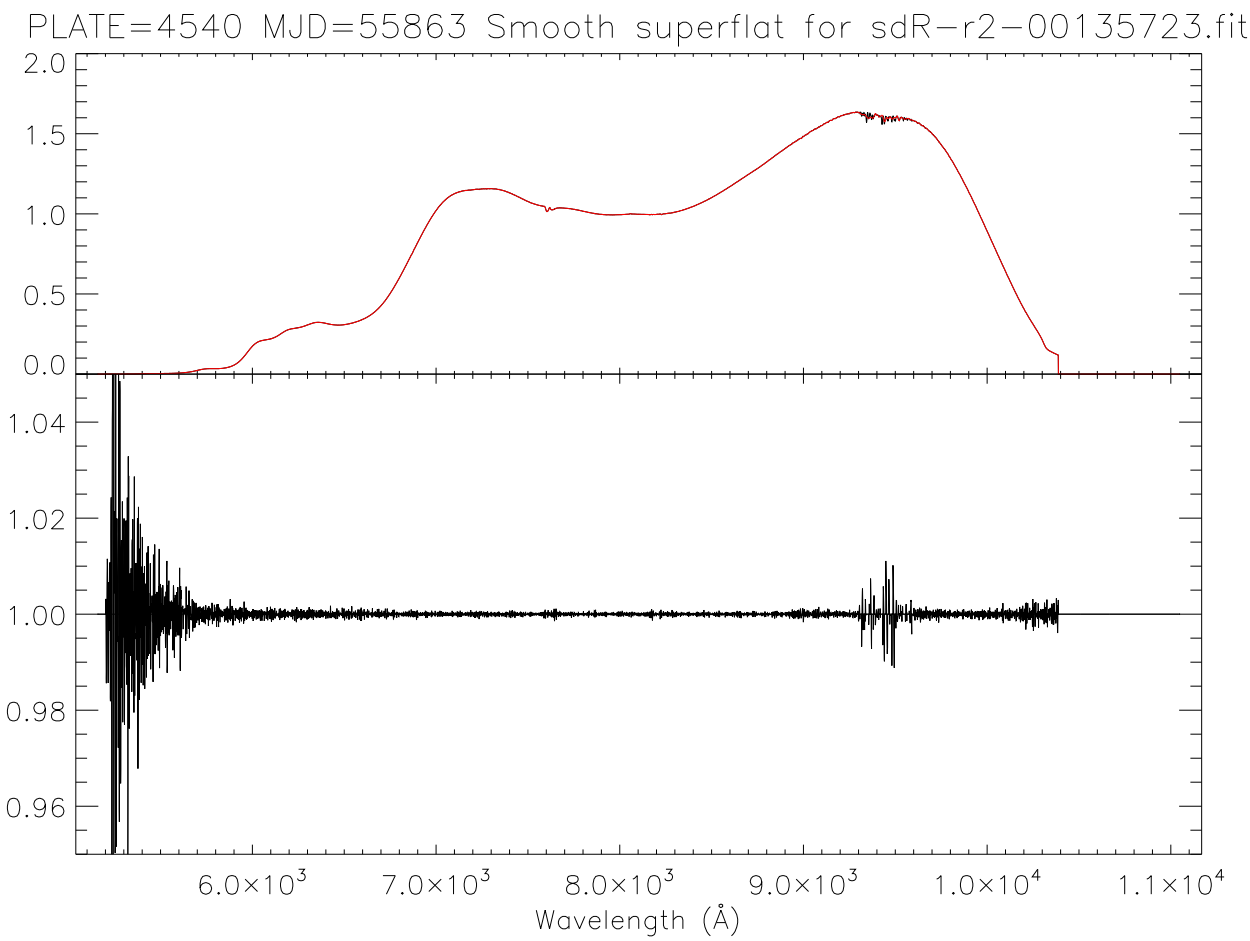

PLATE=4540 MJD=55863 sdR-r2-00135722.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.80 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

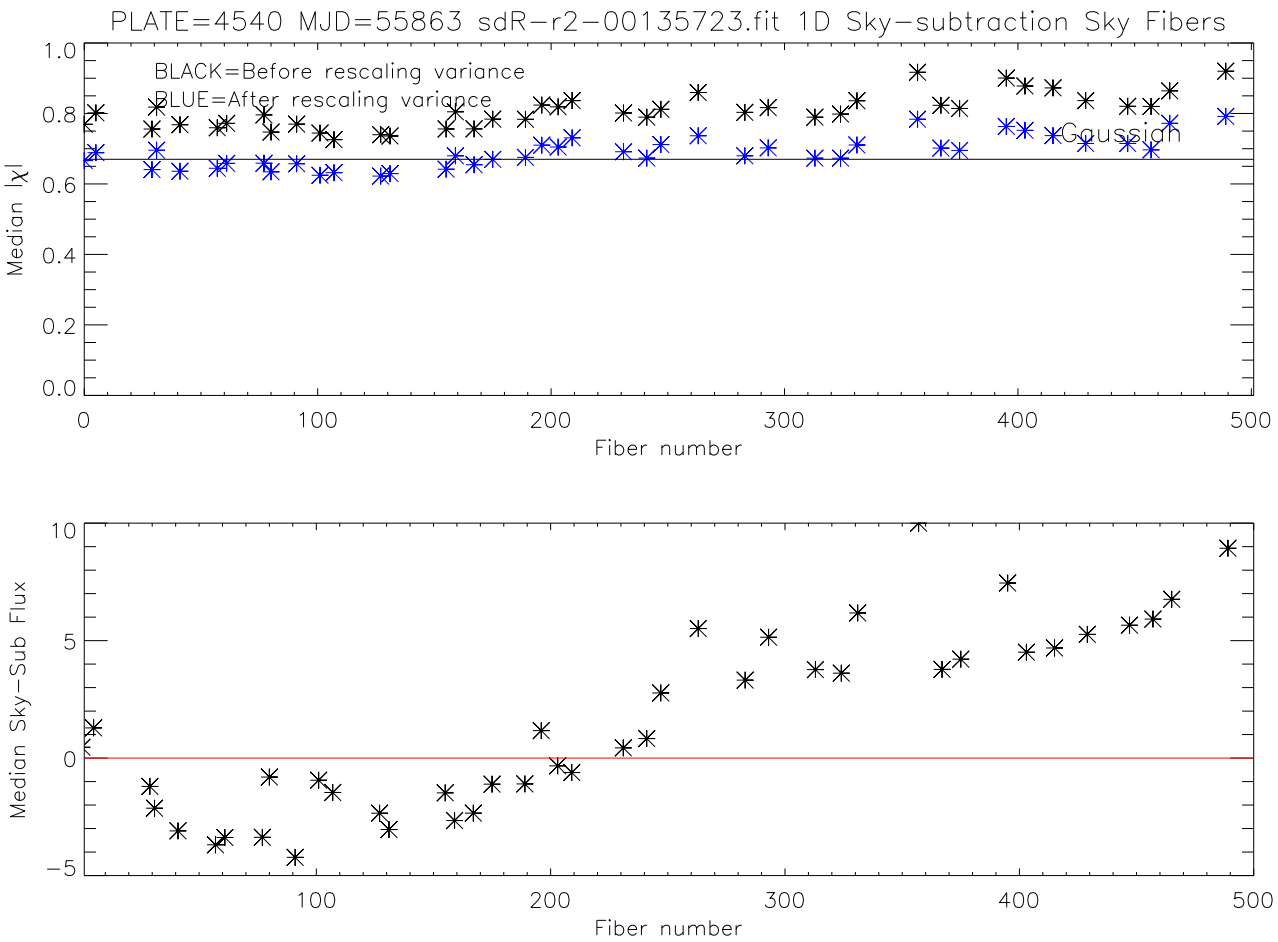

PLATE=4540 MJD=55863 sdR-r2-00135722.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.38 %
Fiber number
Focal Distance [mm]
Airmass

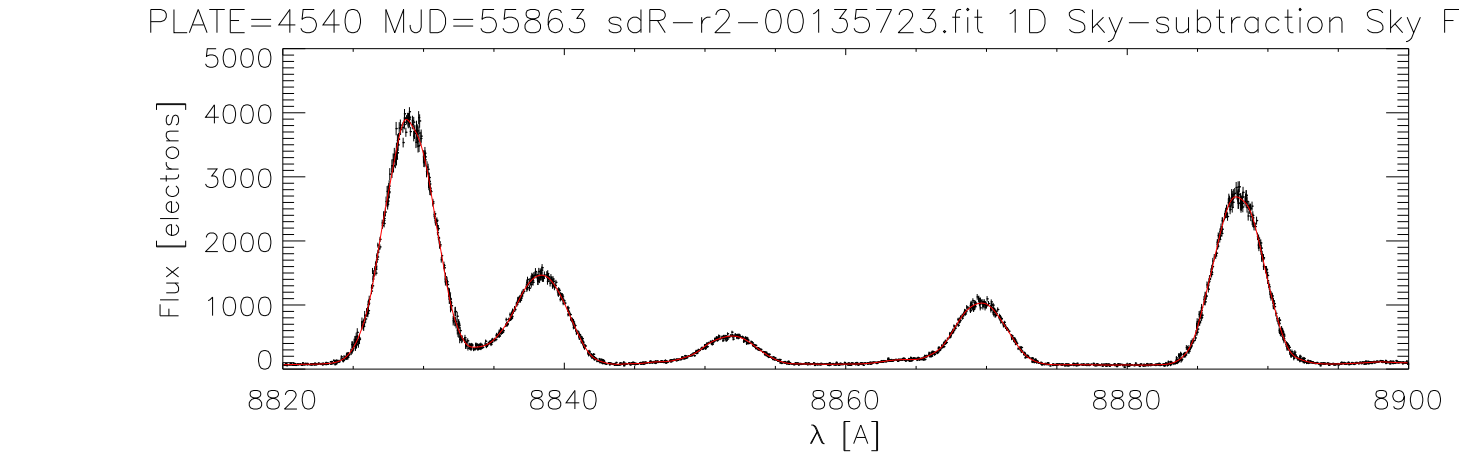

PLATE=4540 MJD=55863 Fiber−Flats for sdR−r2−00135721.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −38.871
Max value = 12.431
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Tue Apr 15 03:47:25 2014

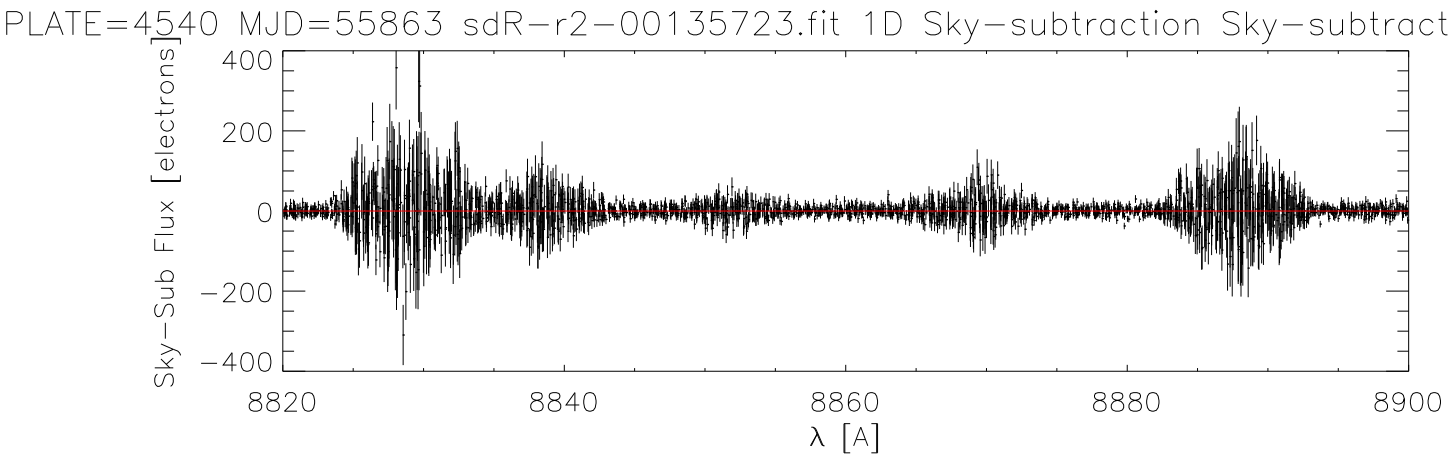

PLATE=4540 MJD=55863 Extraction chi^2 for sdR−r2−00135723.fit
BLACK = Final chisq extraction
χ^2
2.0
1.5
1.0
0.5
0.0
0
1000
2000
3000
4000
Row number


PLATE=4540 MJD=55863 Sky Line Deviations for sdR-r2-00135723.fit
Before shift
After shift
1.00 pix
Fiber Number
0
100
200
300
400
500
5460 5577 6300 6363 6553 6923 6949 7571 7794 7821 8399 8430 8885 8919
Sky Line Wavelength

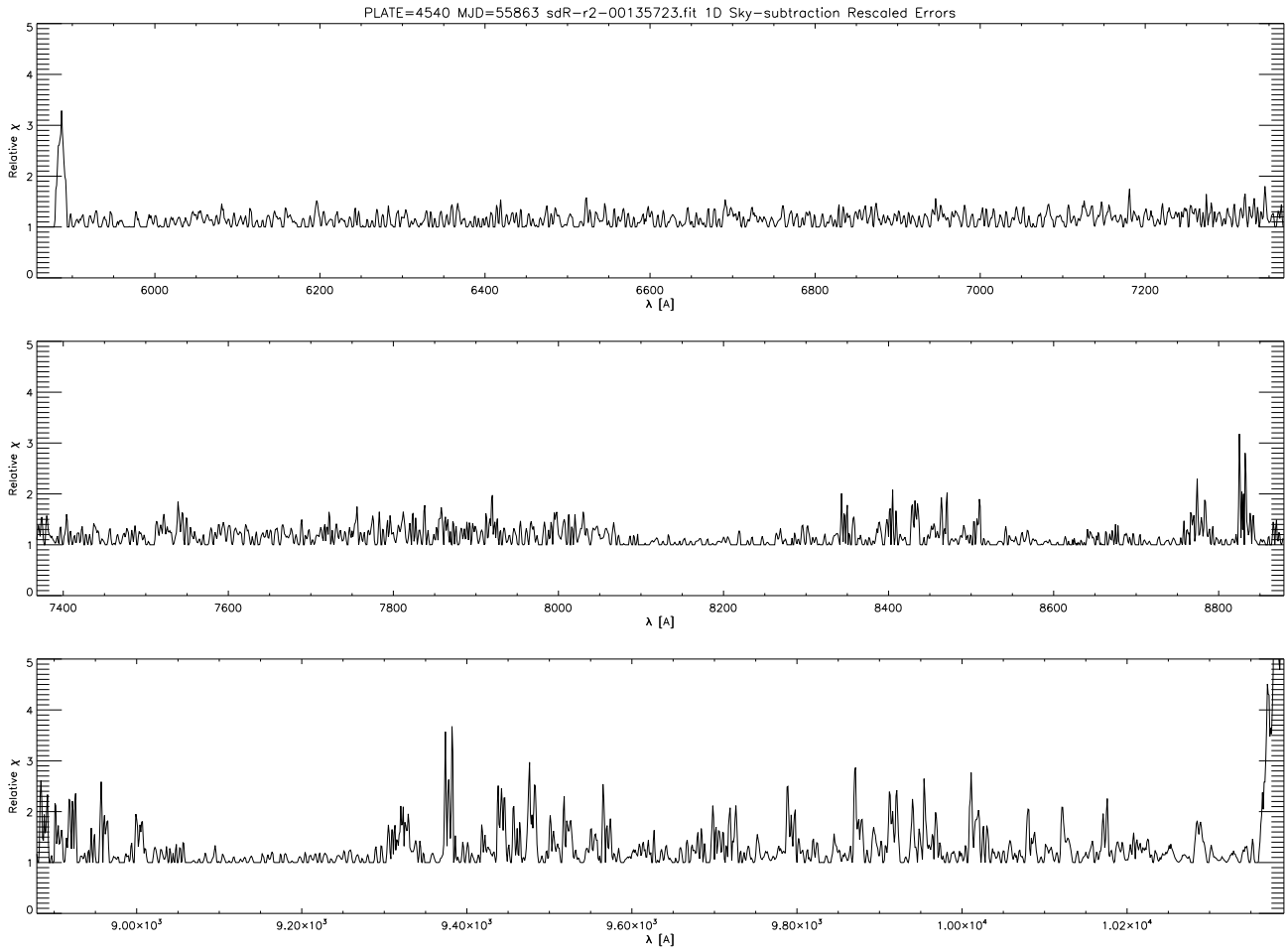

PLATE=4540 MJD=55863 Smooth superflat for sdR-r2-00135723.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

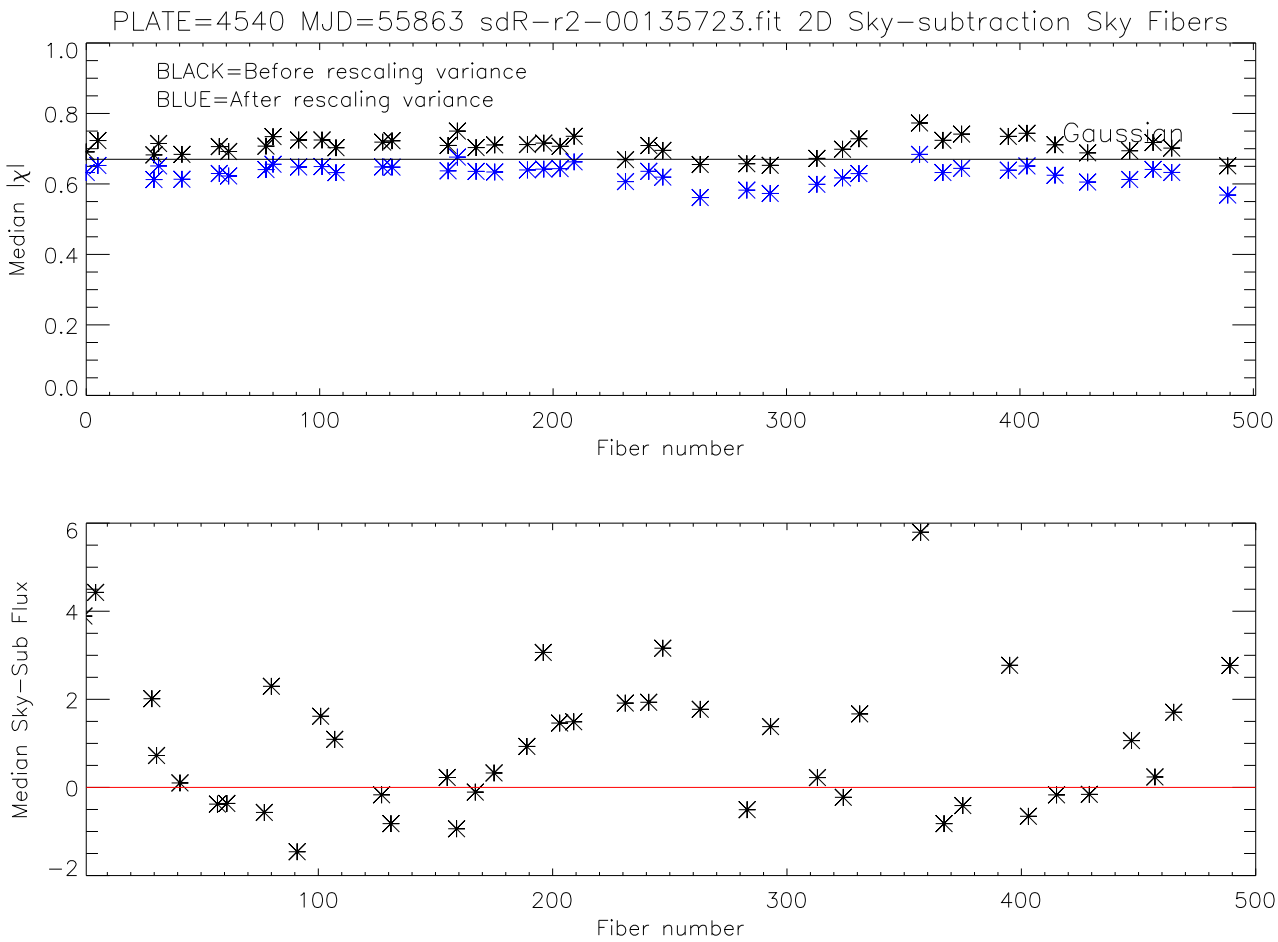

PLATE=4540 MJD=55863 sdR-r2-00135723.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number


PLATE=4540 MJD=55863 sdR-r2-00135723.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

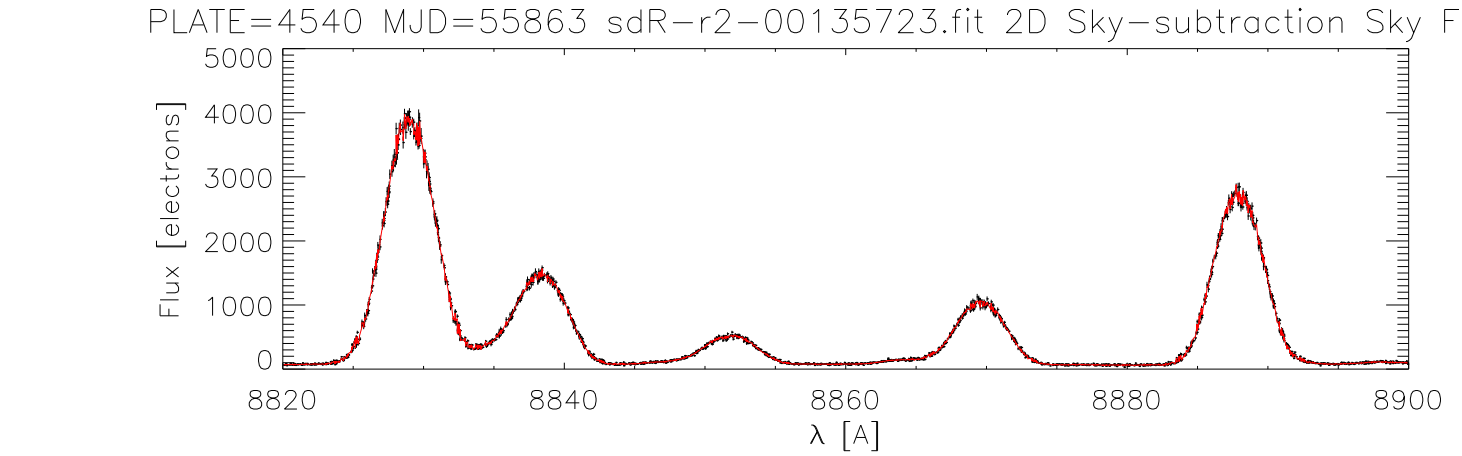

PLATE=4540 MJD=55863 sdR-r2-00135723.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

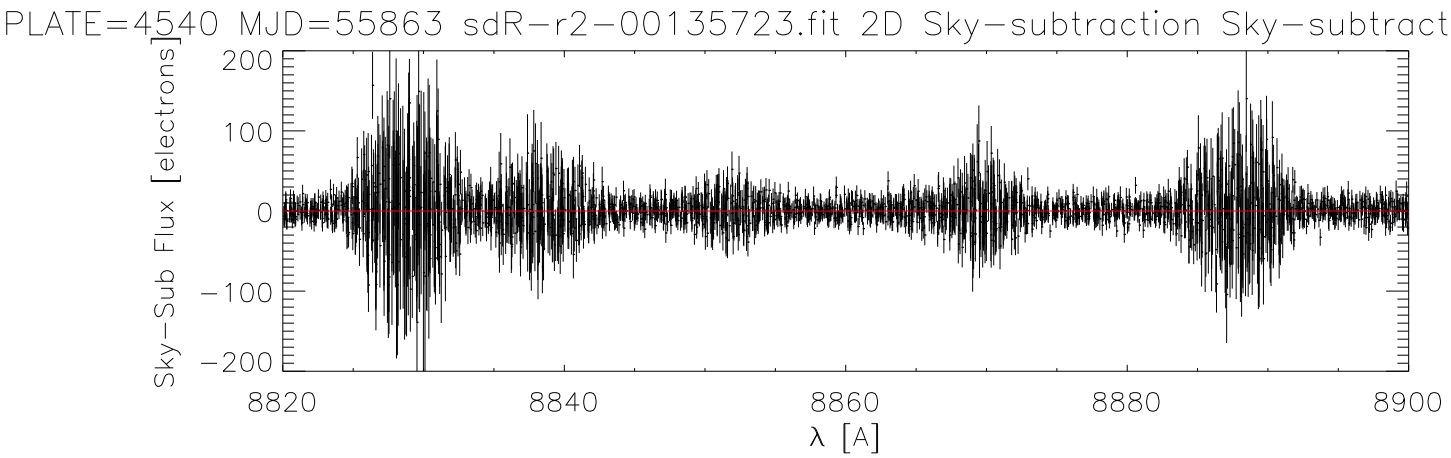
Number of sky fibers = 42



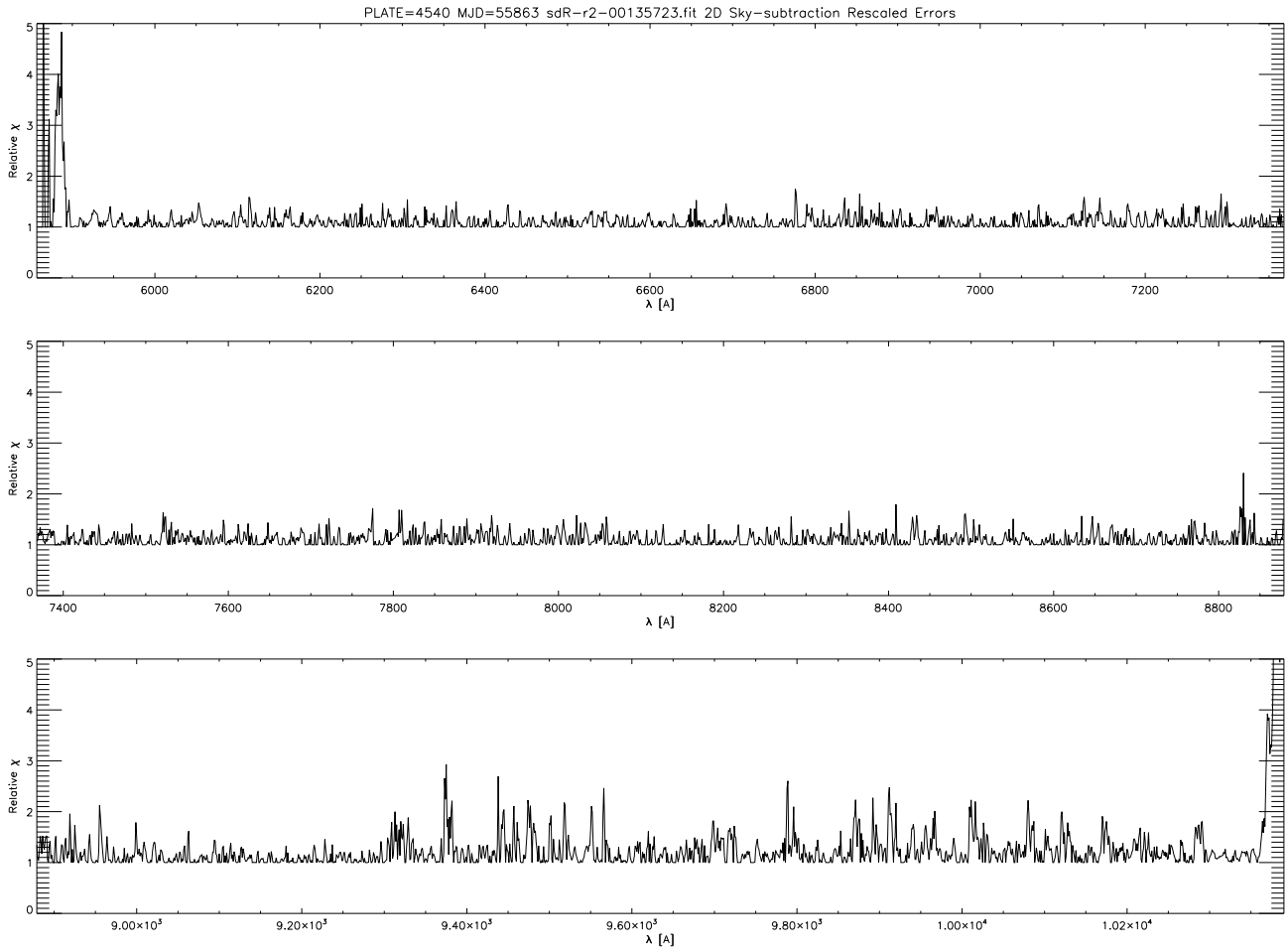

PLATE=4540 MJD=55863 sdR-r2-00135723.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
1.0
0.8
0.6
0.4
0.2
0.0
0
100
200
300
400
500

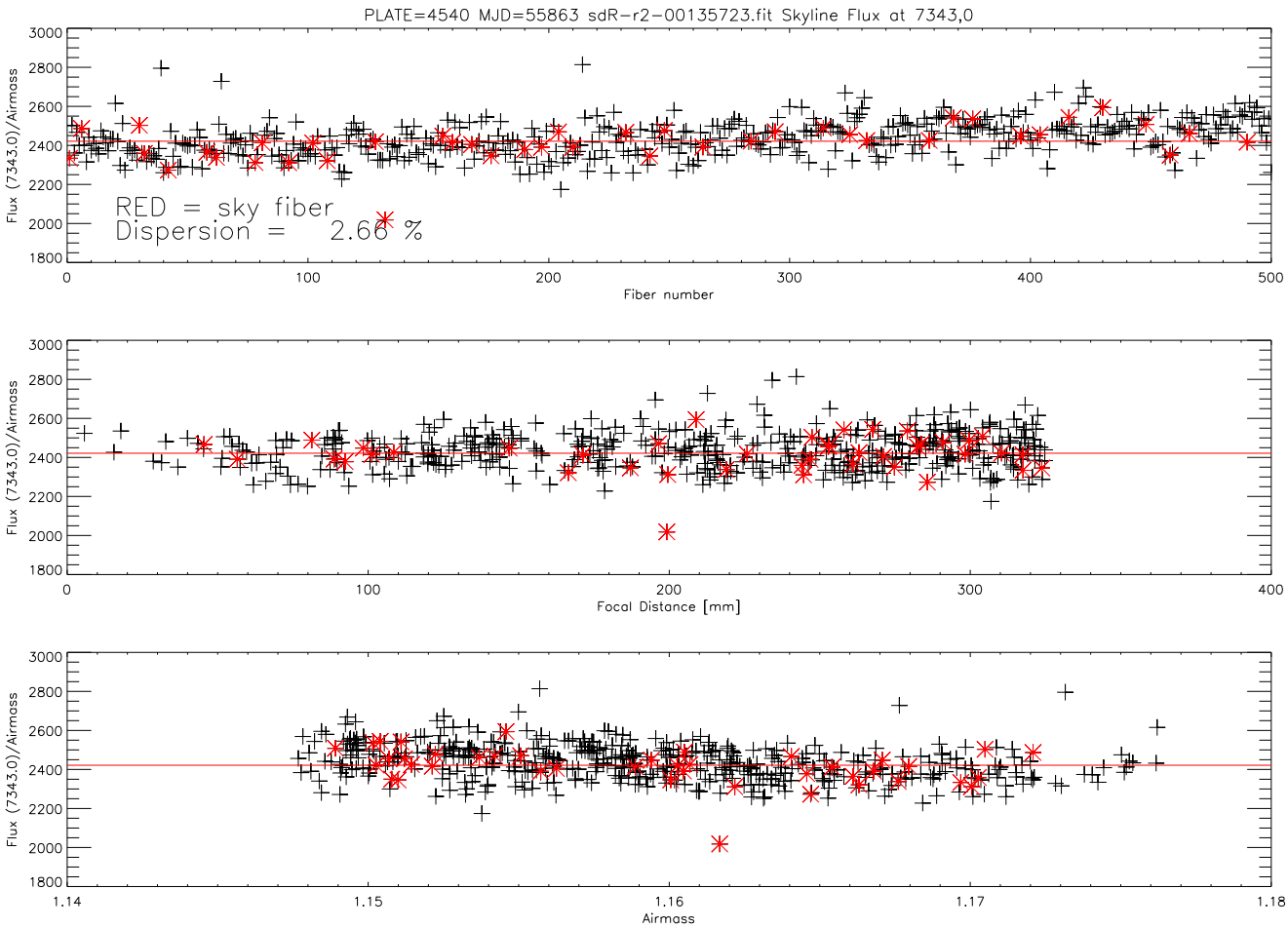
Median Sky-Sub Flux
Fiber number
6
4
2
0
−2
100
200
300
400
500

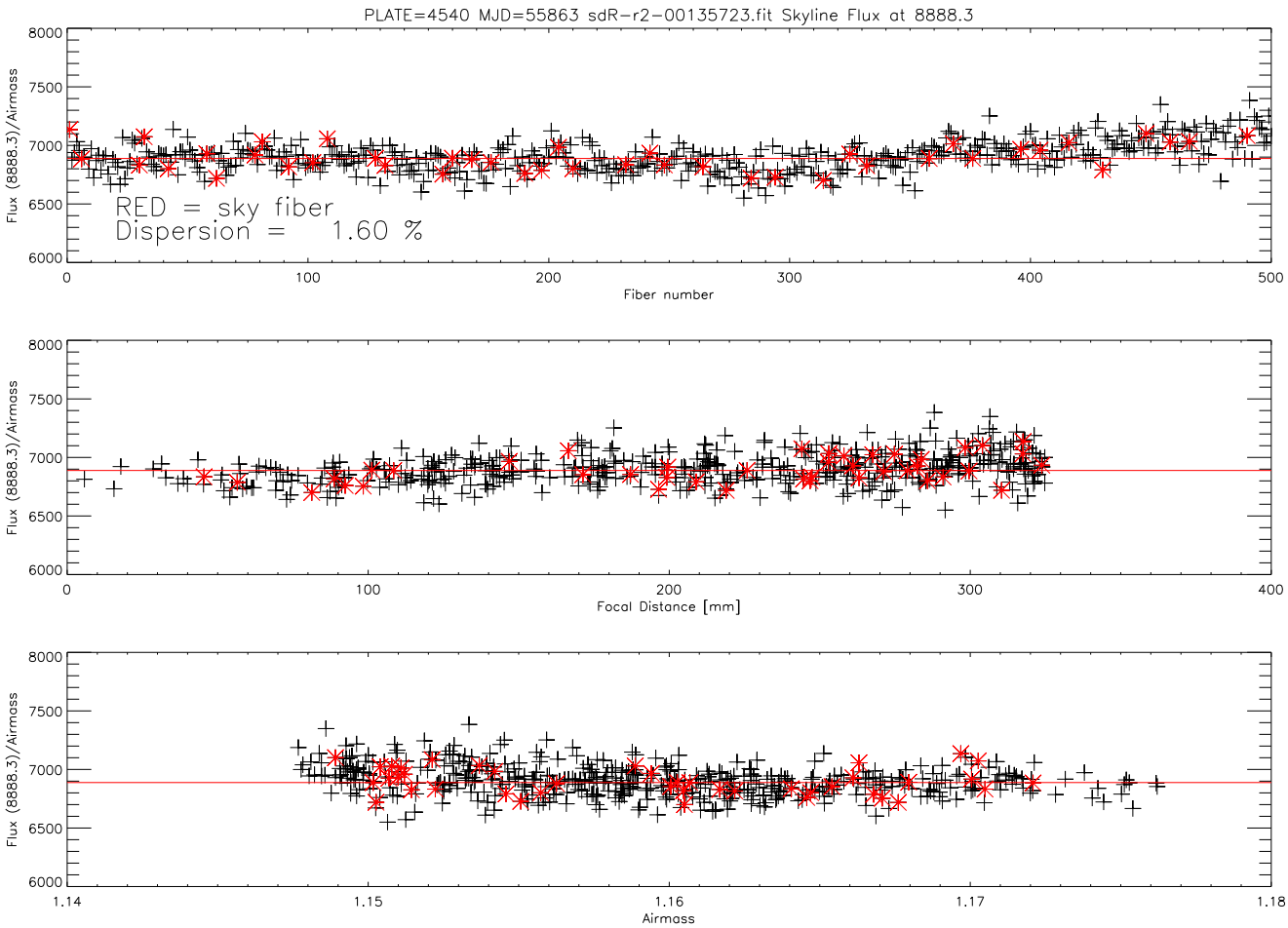

PLATE=4540 MJD=55863 sdR-r2-00135723.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]


PLATE=4540 MJD=55863 sdR-r2-00135723.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 42




PLATE=4540 MJD=55863 sdR-r2-00135723.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.66 %
Fiber number
Focal Distance [mm]
Airmass


PLATE=4540 MJD=55863 sdR-r2-00135723.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.60 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass