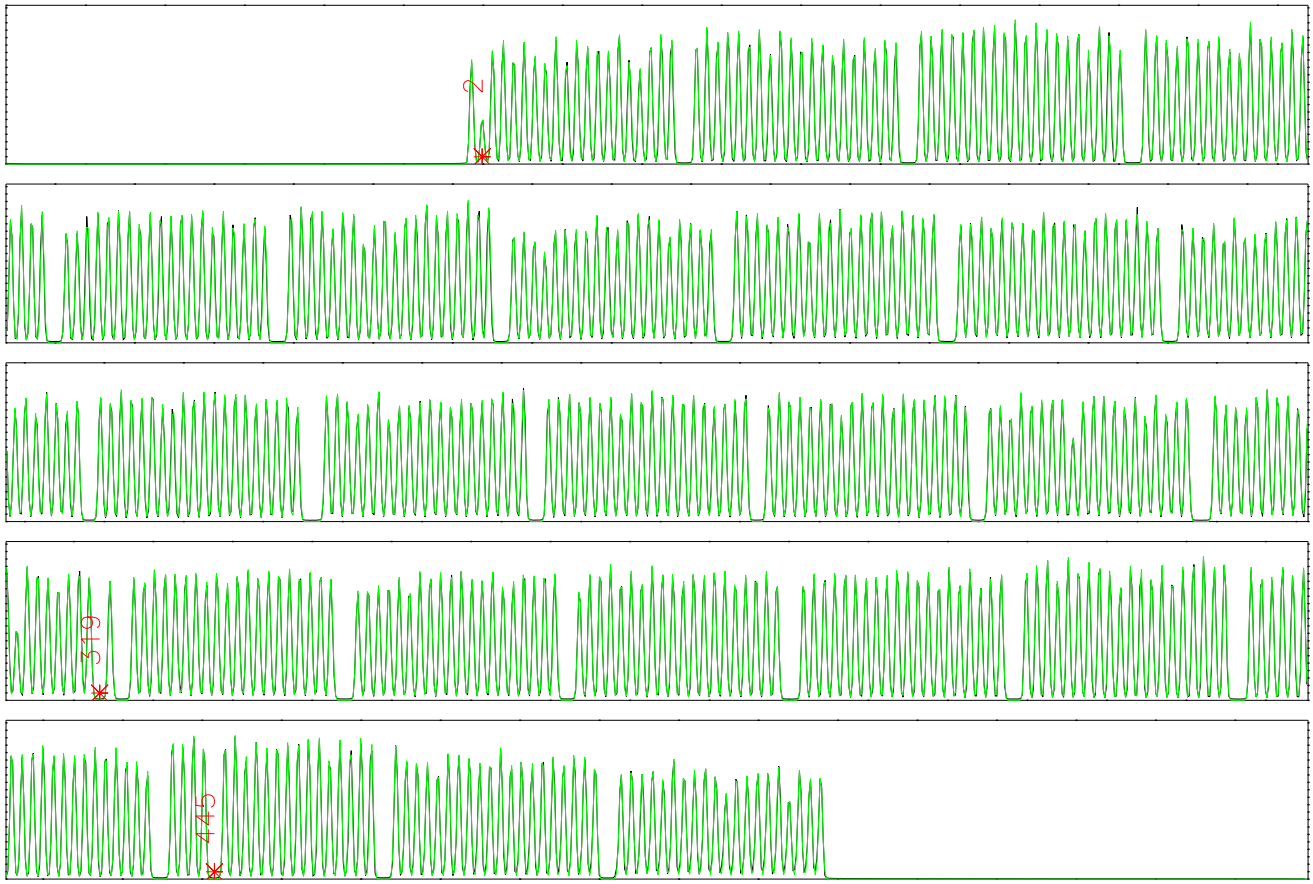
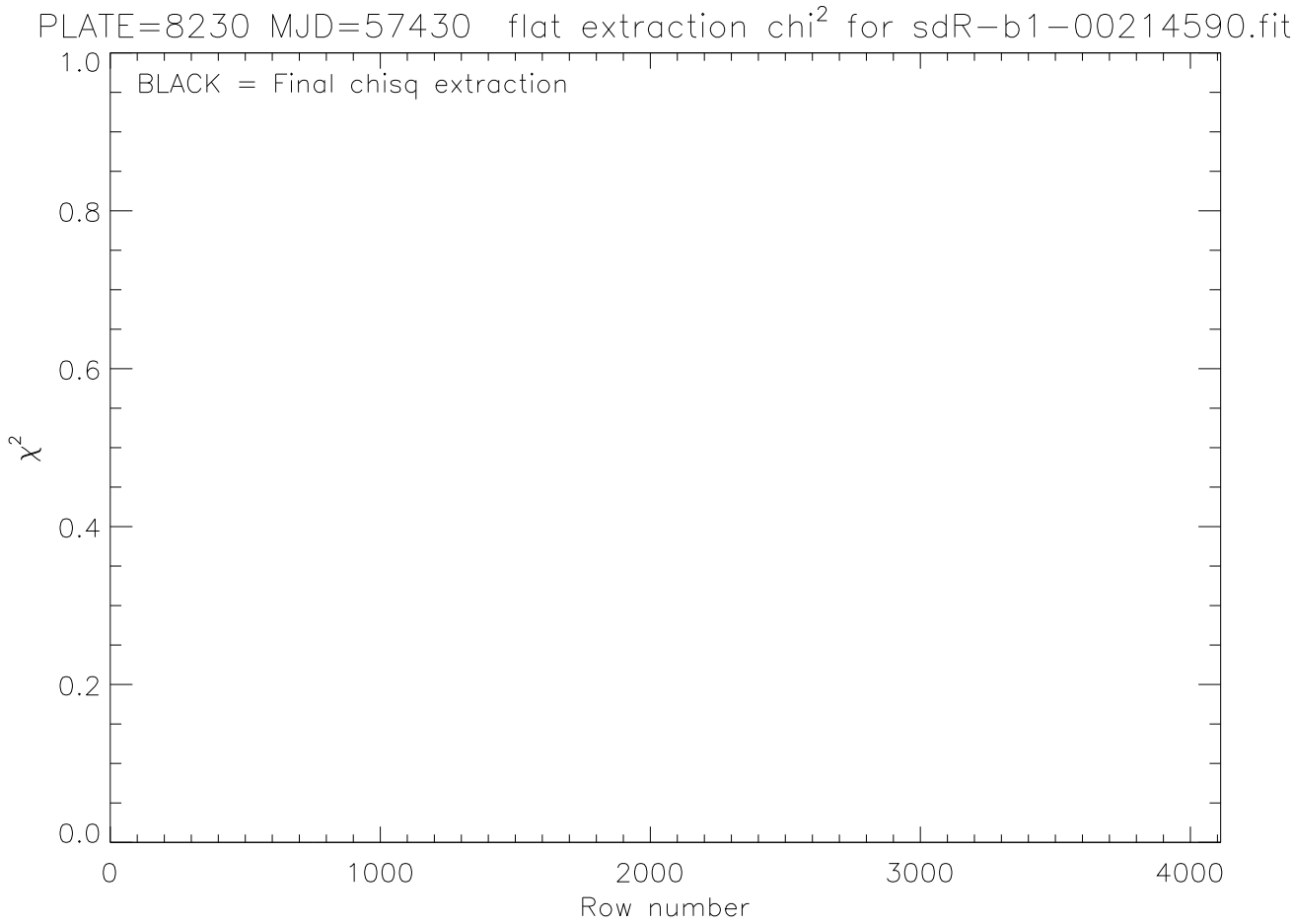
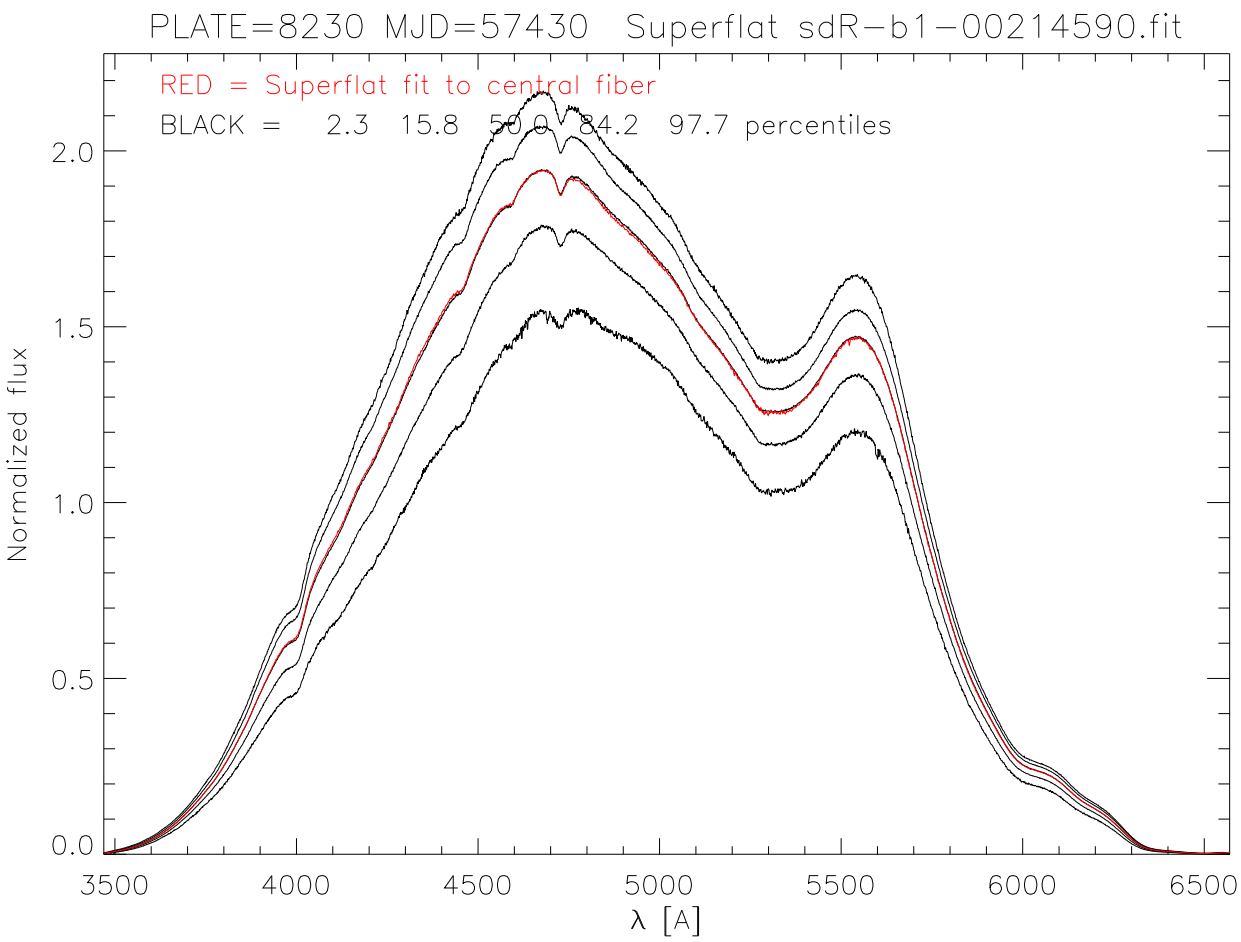
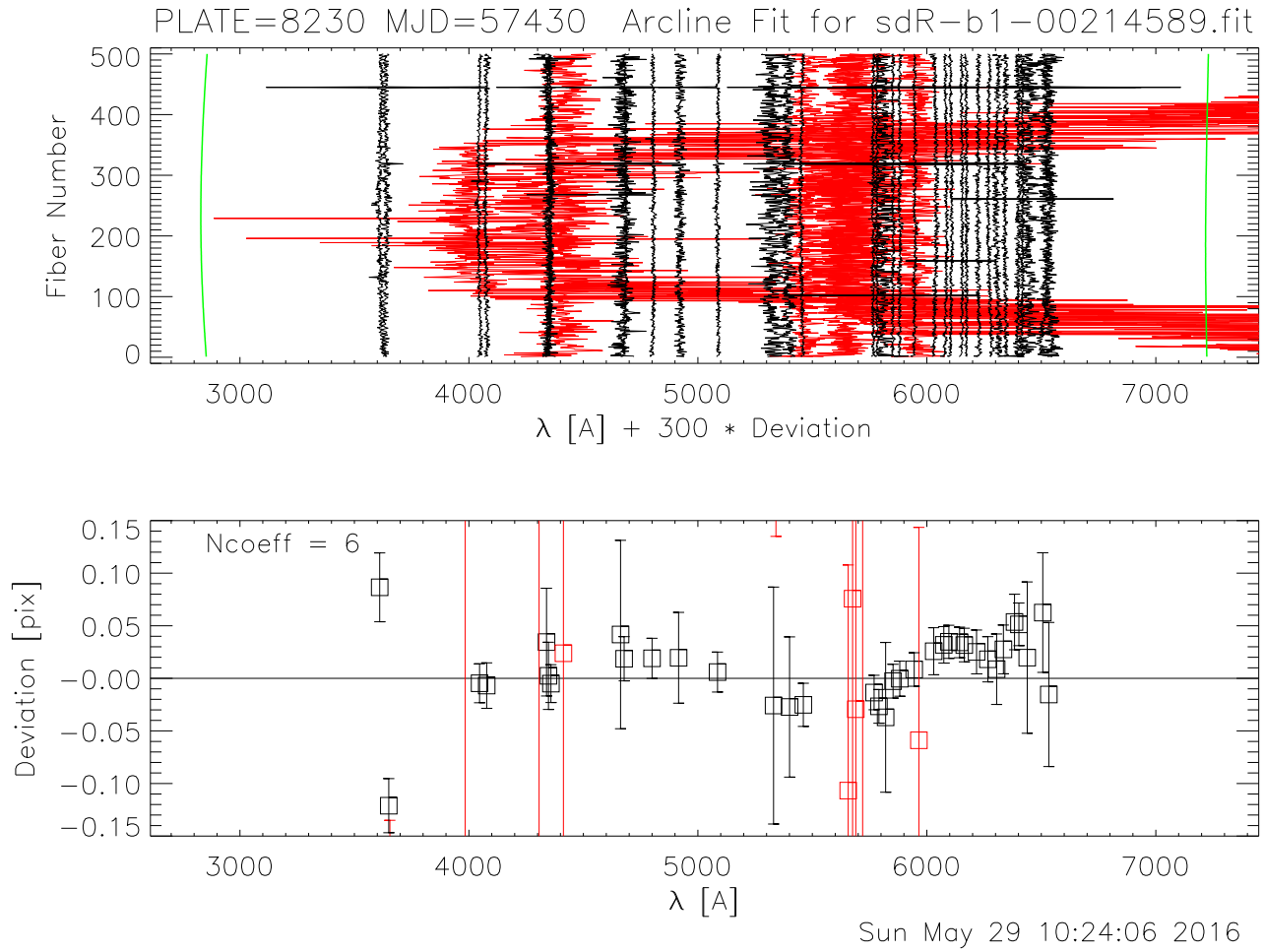
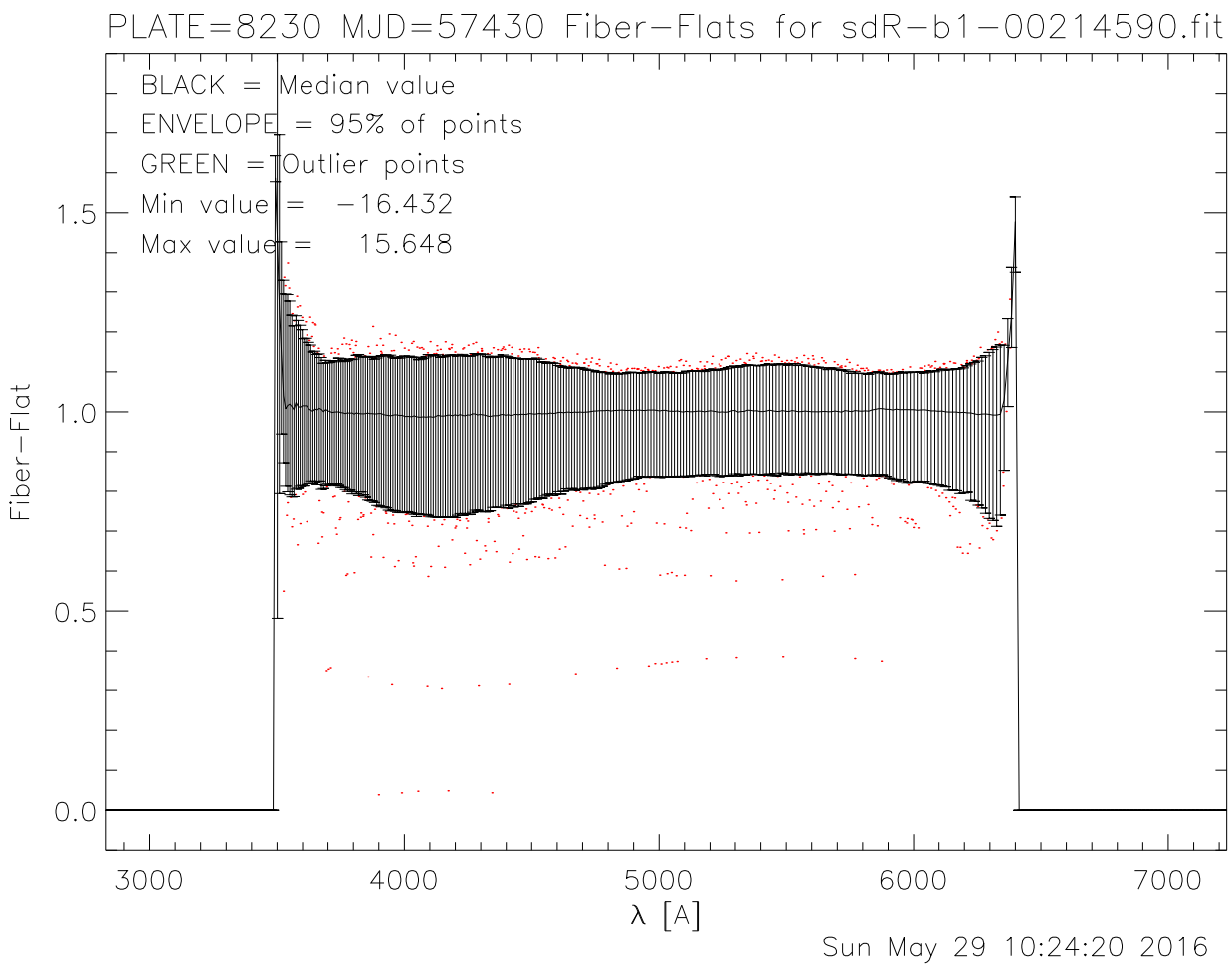
PLATE=8230 MJD=57430 Traces sdR-b1-00214590.fit

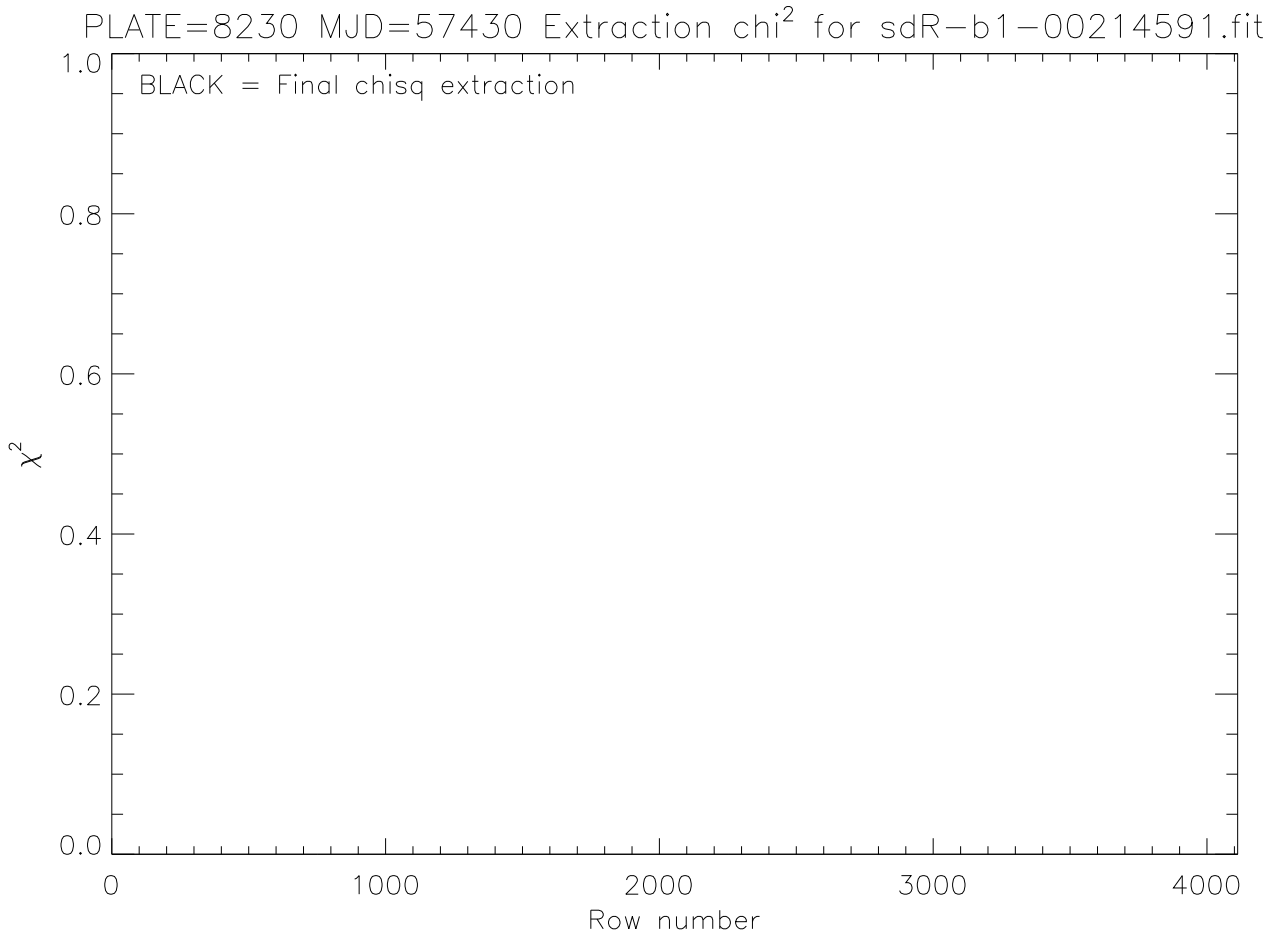


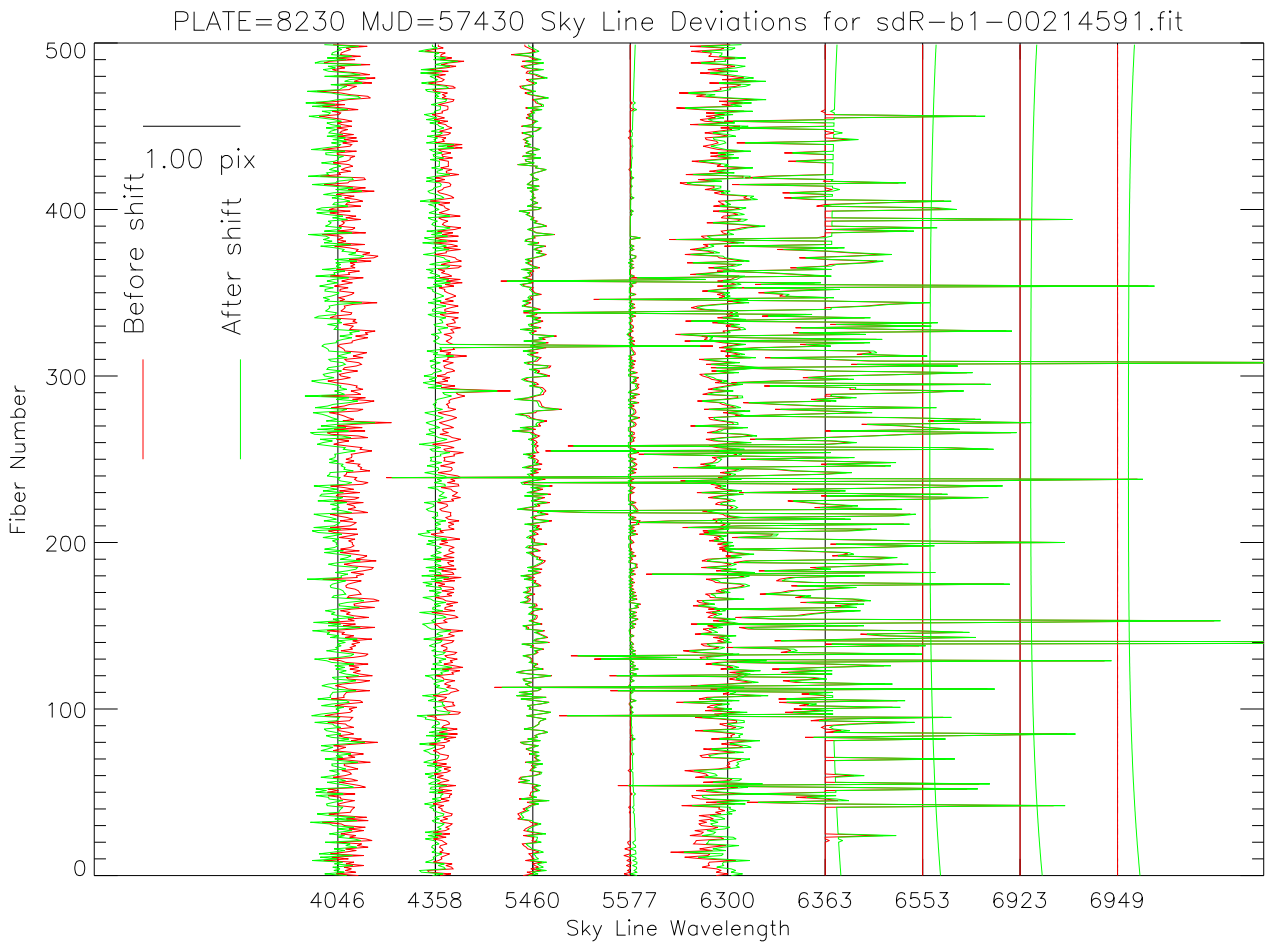

PLATE=8230 MJD=57430 flat extraction chi^2 for sdR−b1−00214590.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number

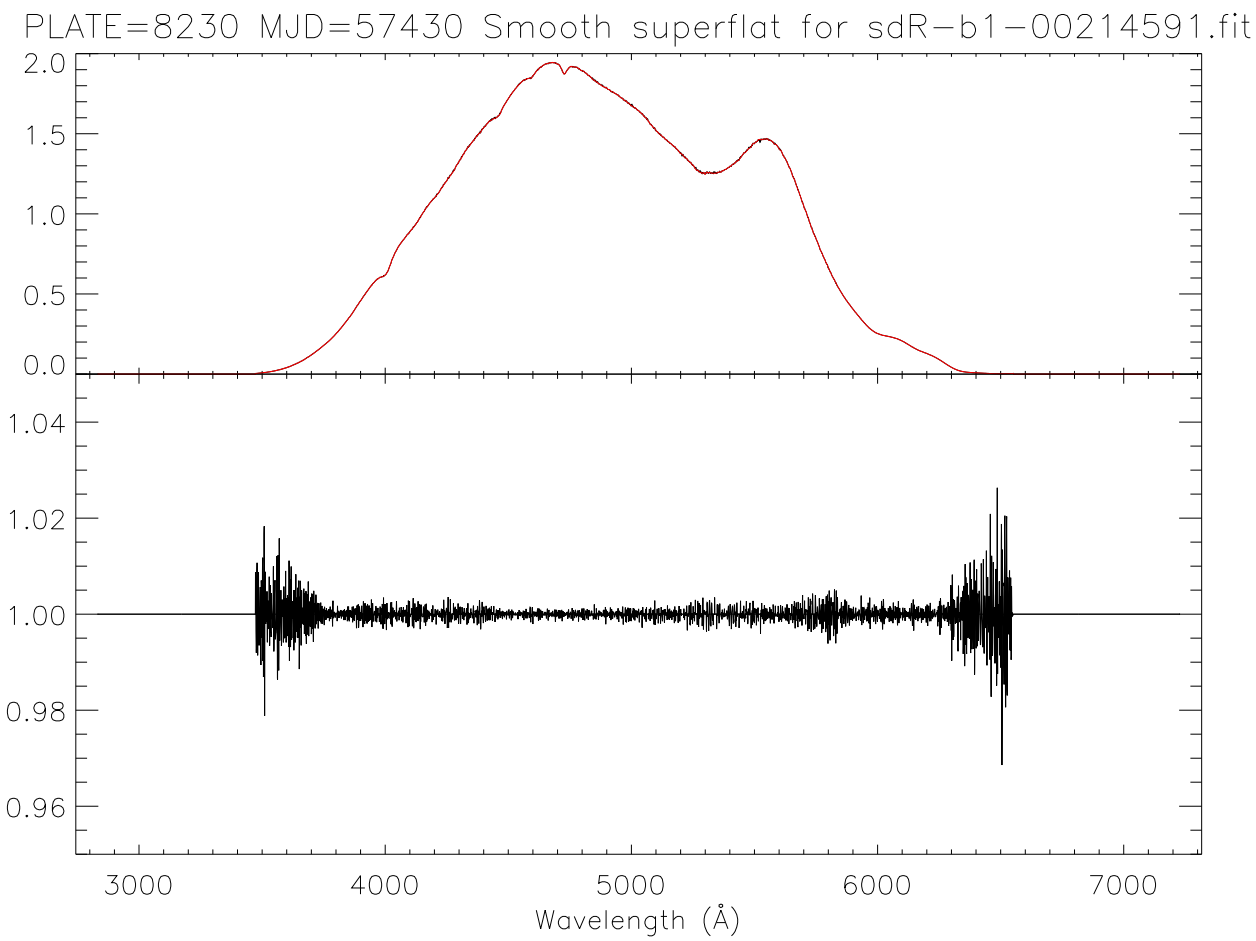

PLATE=8230 MJD=57430 Superflat sdR-b1-00214590.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
3500
4000
4500
5000
5500
6000
6500

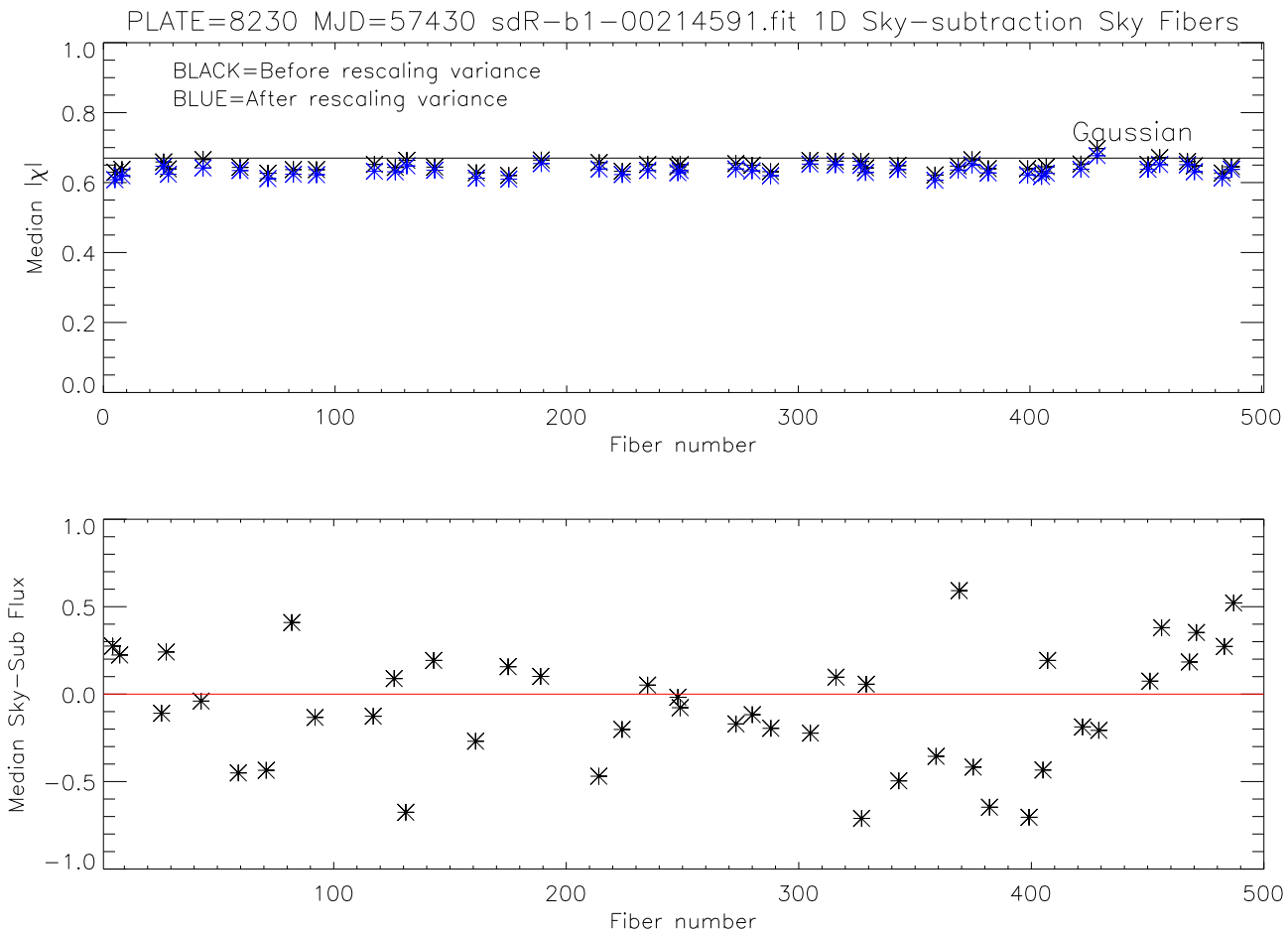

PLATE=8230 MJD=57430 Arcline Fit for sdR-b1-00214589.fit
Fiber Number
500
400
300
200
100
0
3000
4000
5000
6000
7000
λ [A] + 300 * Deviation
Ncoeff = 6
Deviation [pix]
0.15
0.10
0.05
−0.00
−0.05
−0.10
−0.15
3000
4000
5000
6000
7000
λ [A]
Sun May 29 10:24:06 2016

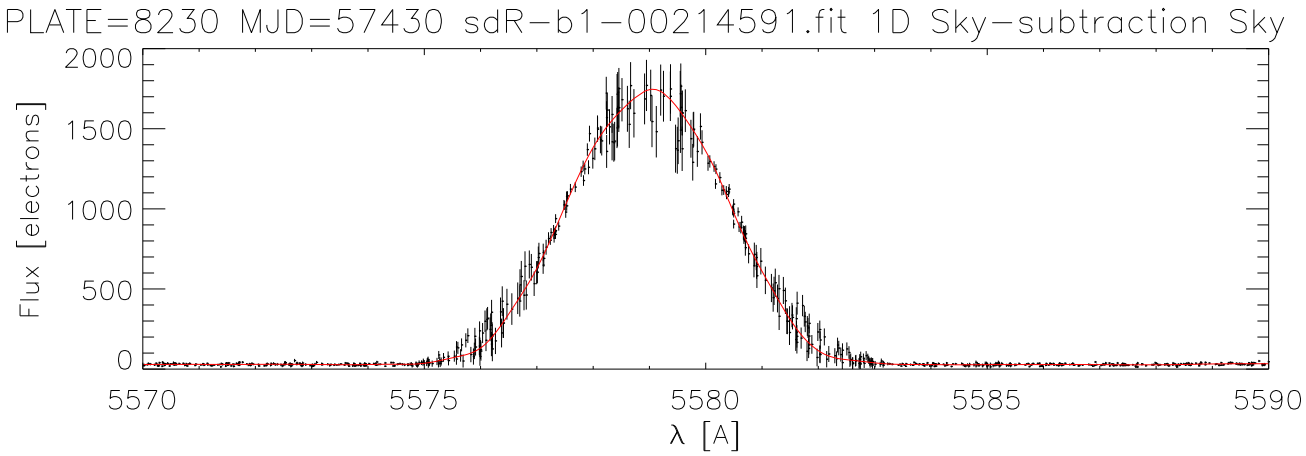

PLATE=8230 MJD=57430 Fiber-Flats for sdR-b1-00214590.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = -16.432
Max value = 15.648
Fiber-Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sun May 29 10:24:20 2016

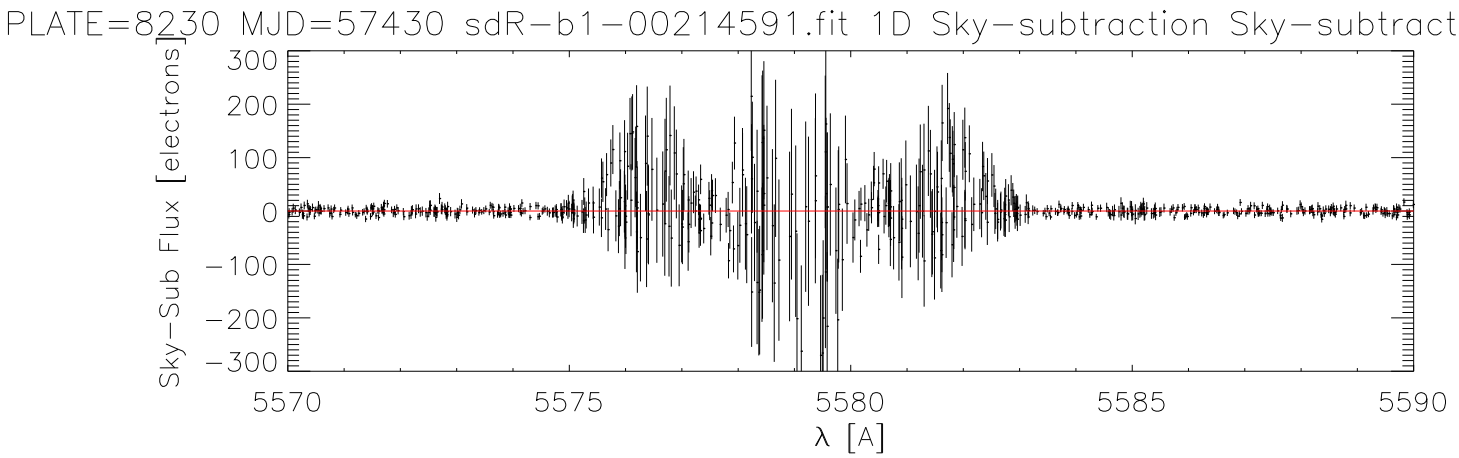

PLATE=8230 MJD=57430 Extraction chi^2 for sdR−b1−00214591.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=8230 MJD=57430 Sky Line Deviations for sdR-b1-00214591.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

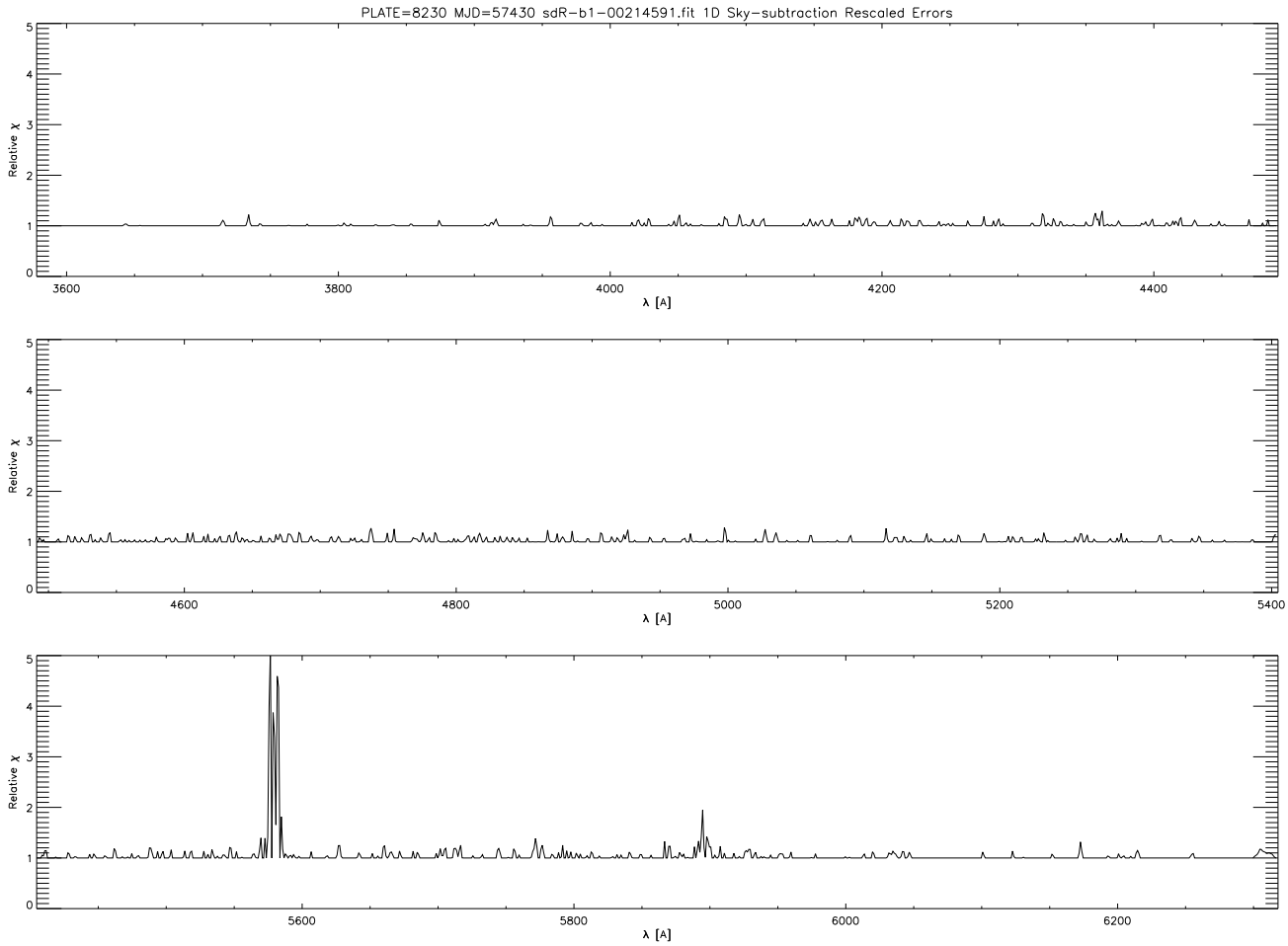

PLATE=8230 MJD=57430 Smooth superflat for sdR-b1-00214591.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

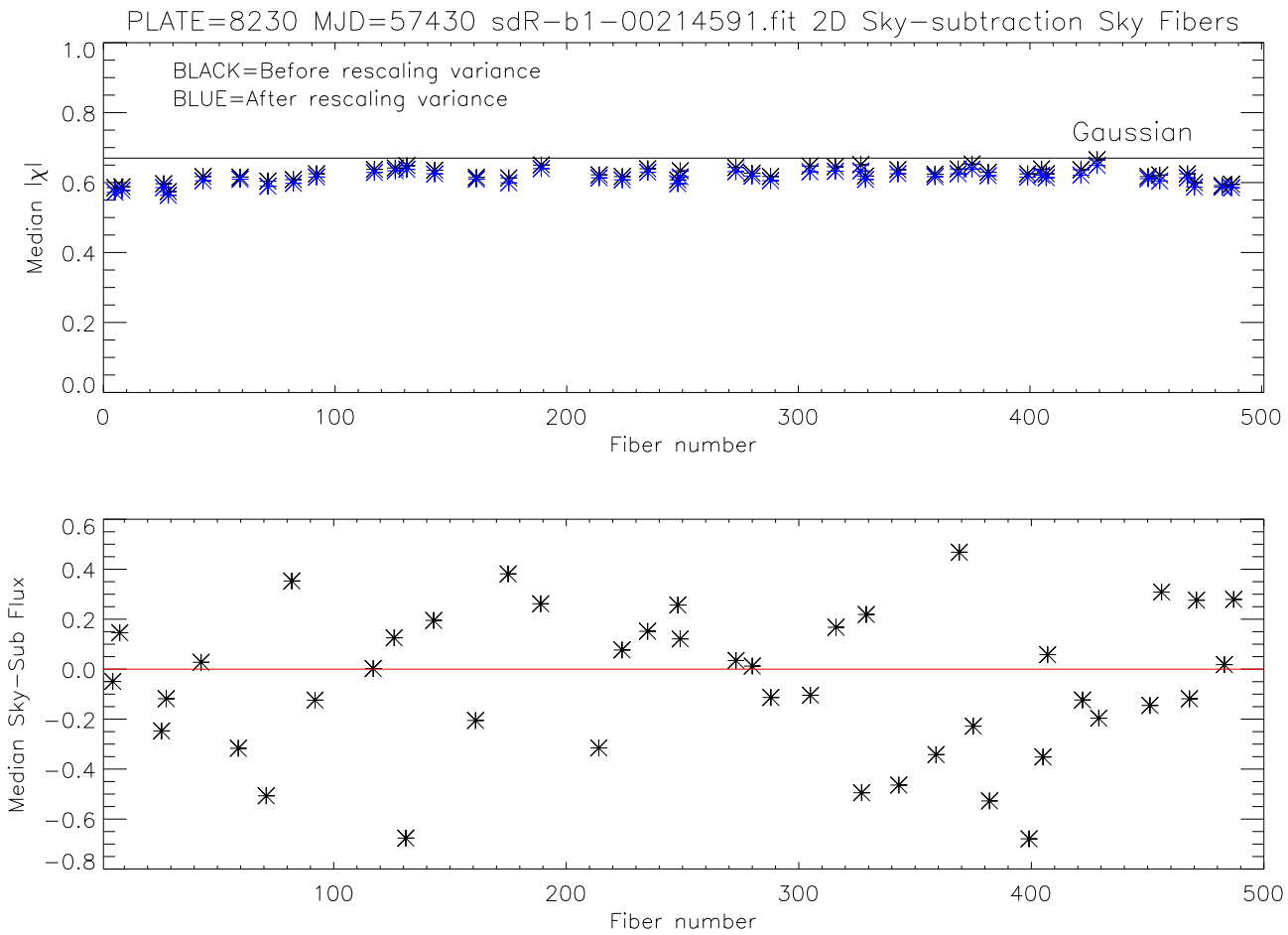

PLATE=8230 MJD=57430 sdR-b1-00214591.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

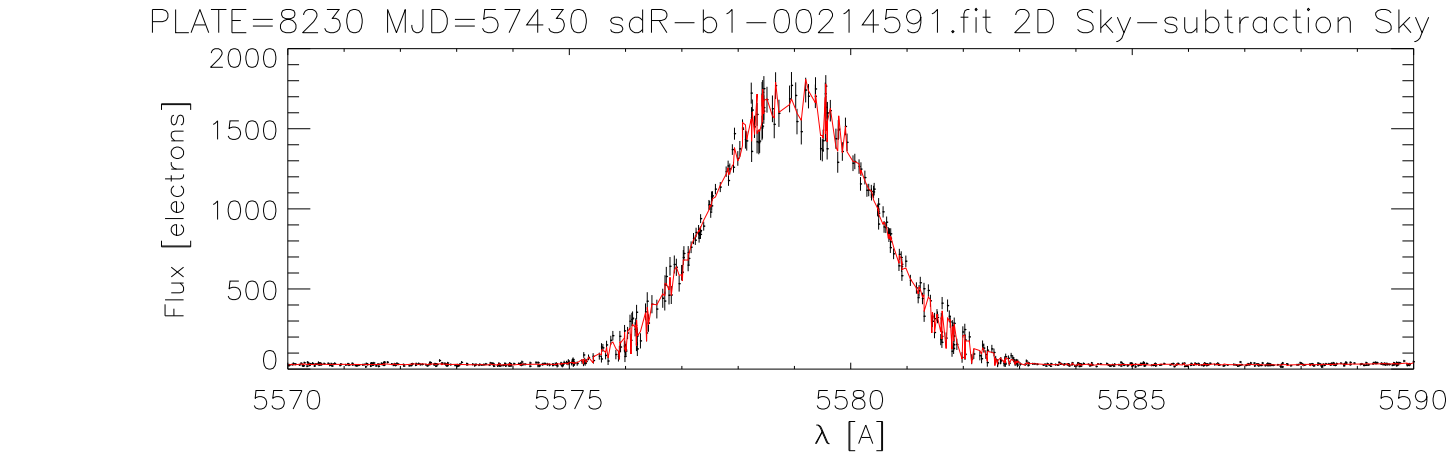

PLATE=8230 MJD=57430 sdR-b1-00214591.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

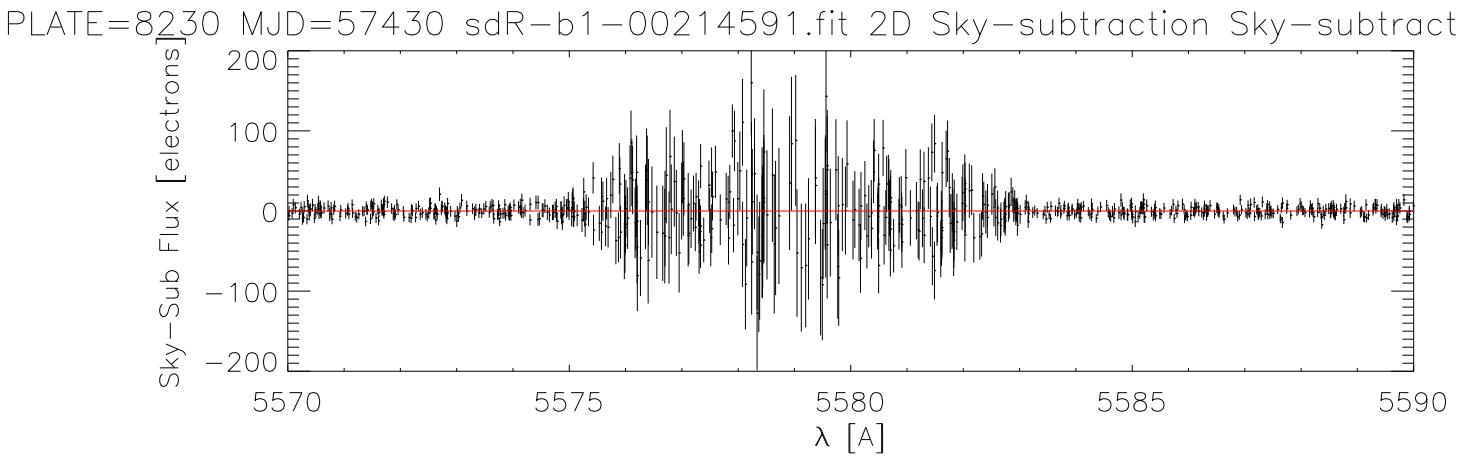

PLATE=8230 MJD=57430 sdR-b1-00214591.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 44

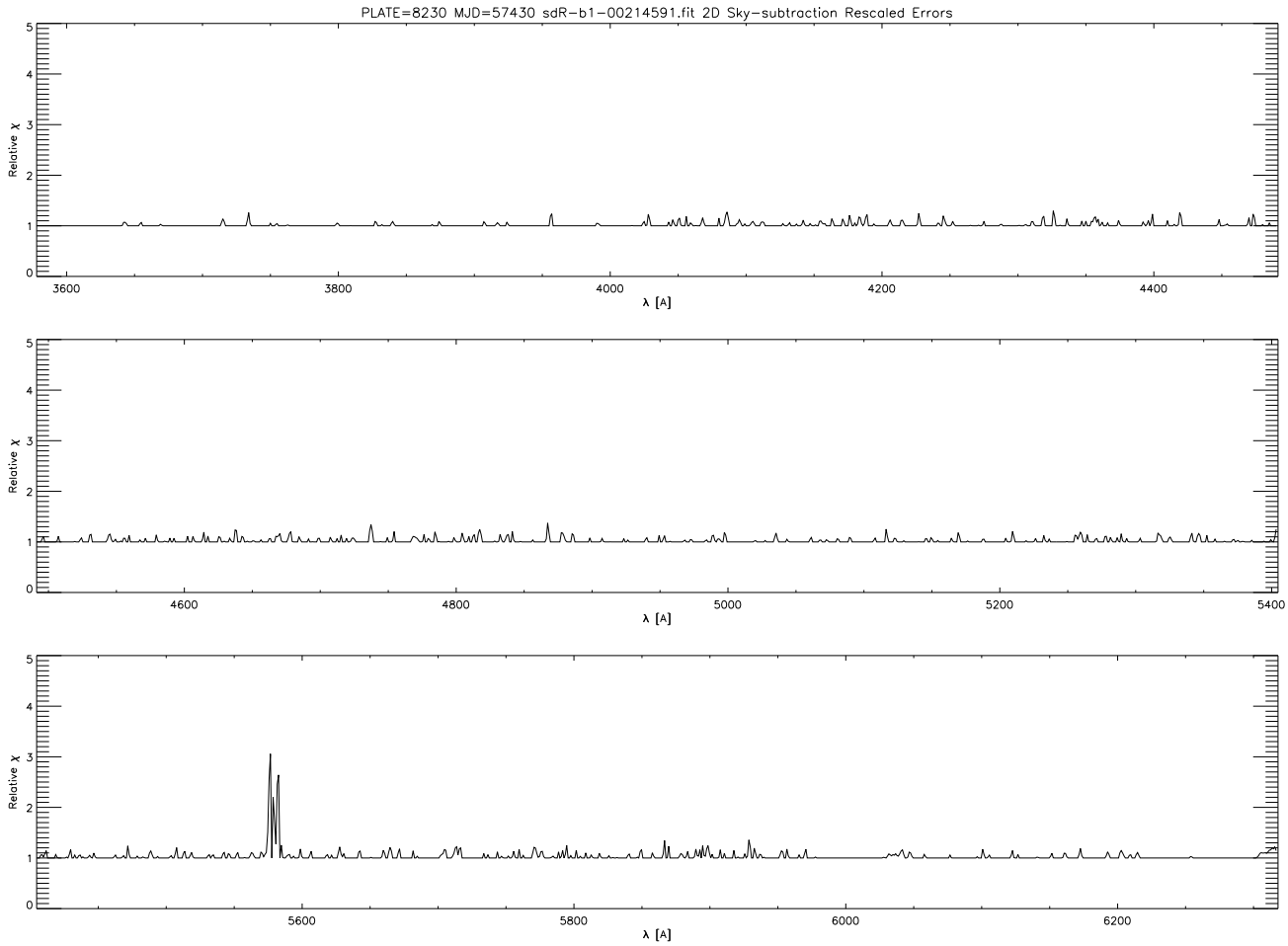


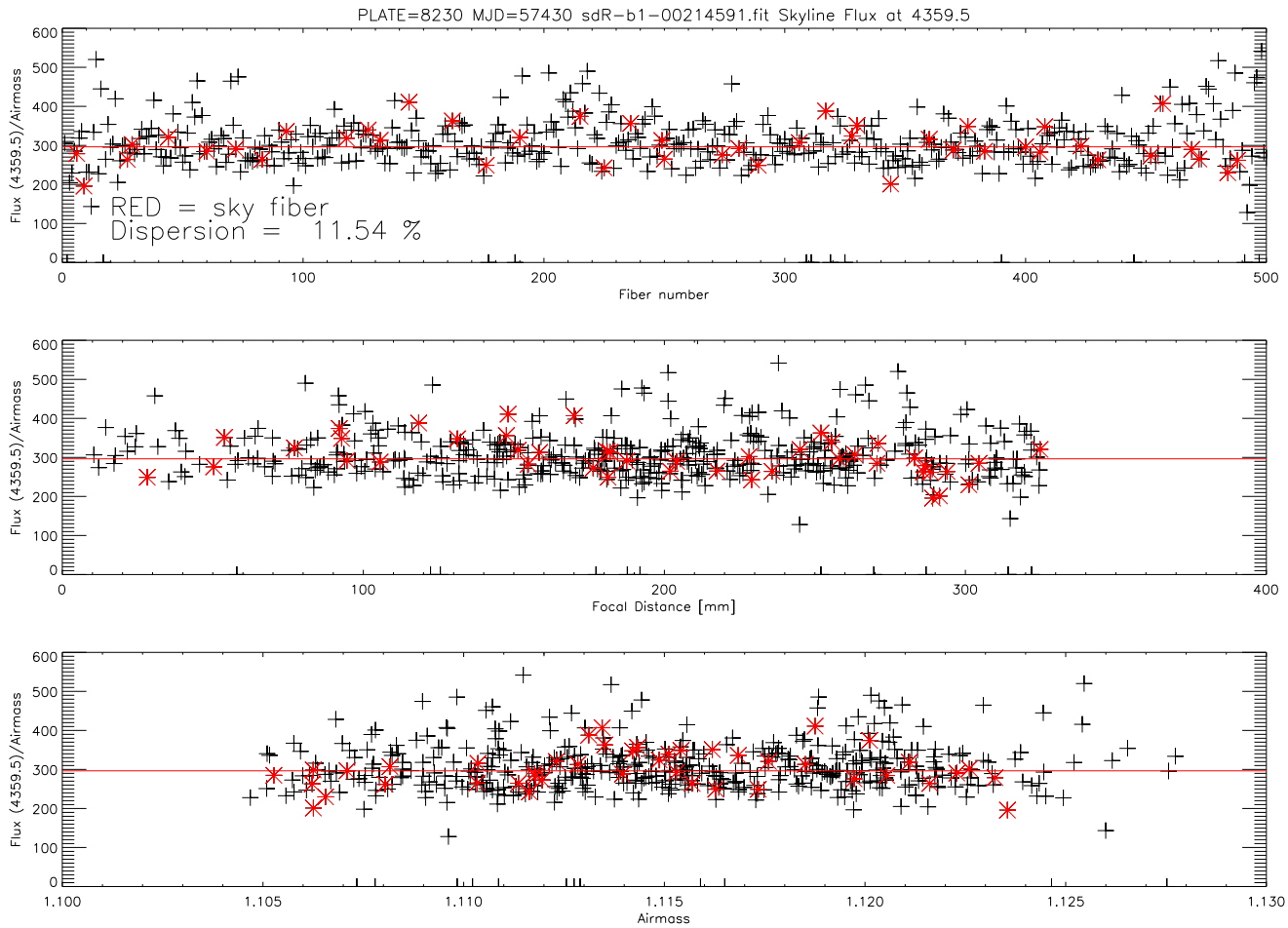

PLATE=8230 MJD=57430 sdR-b1-00214591.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

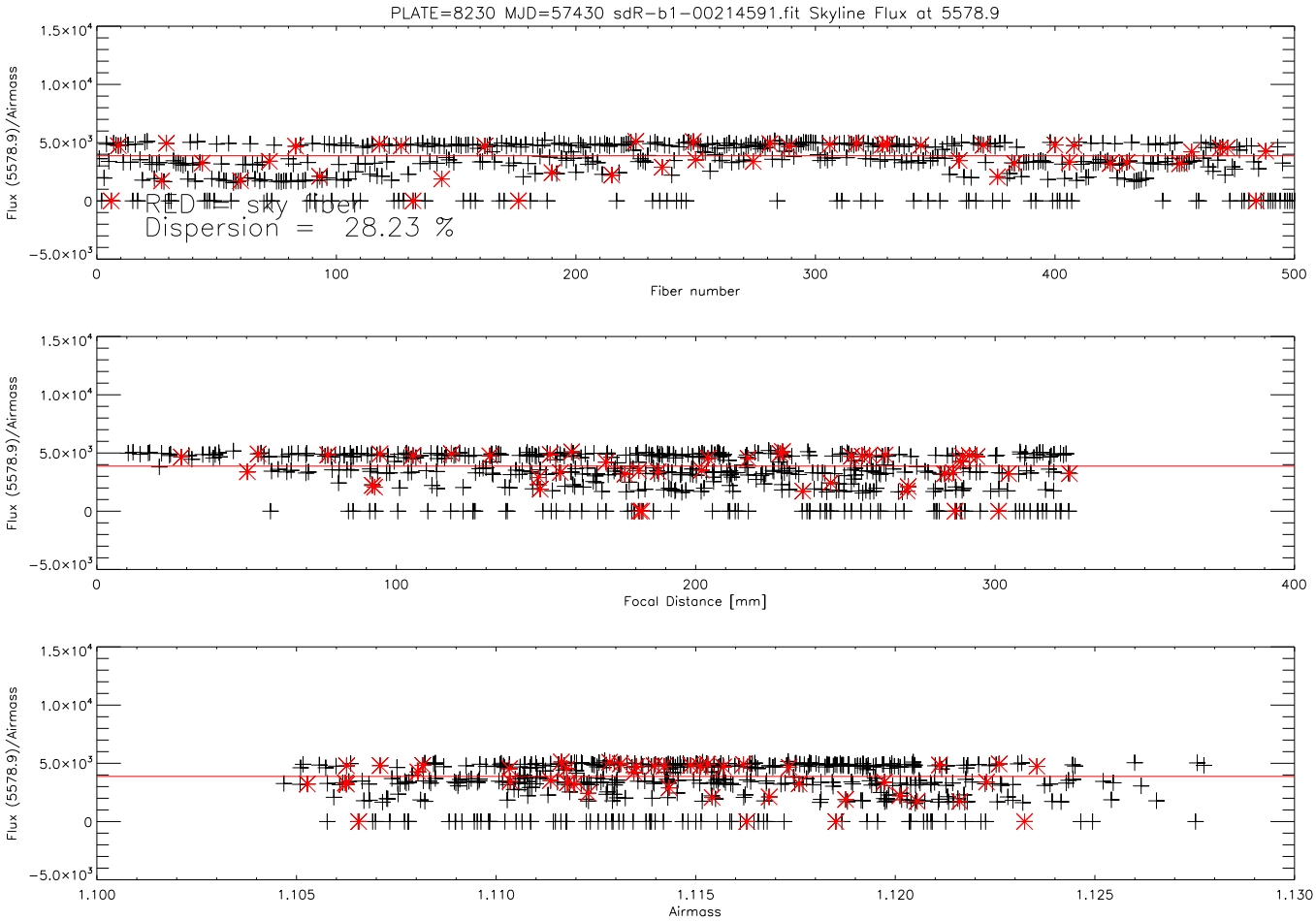

PLATE=8230 MJD=57430 sdR-b1-00214591.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

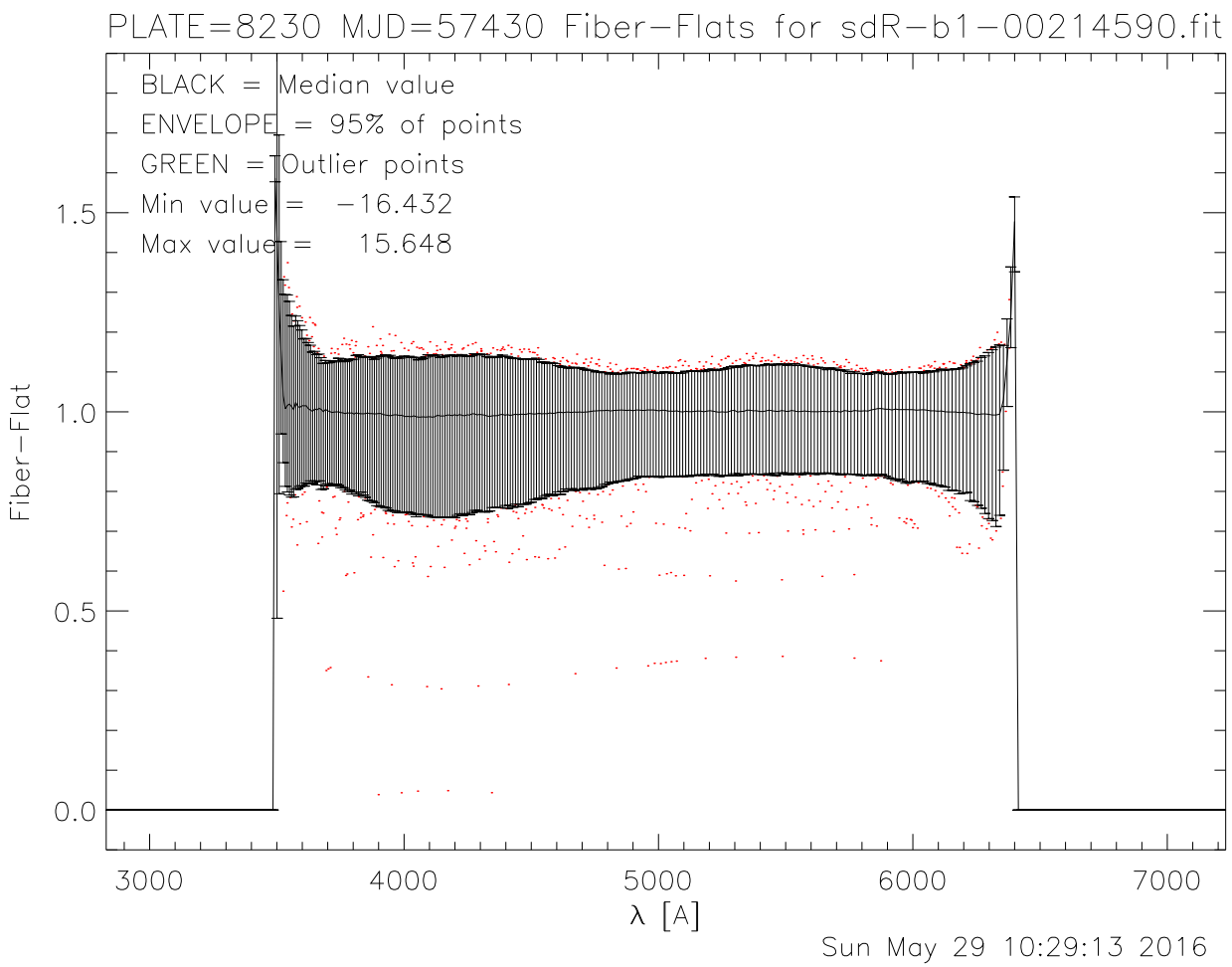

PLATE=8230 MJD=57430 sdR-b1-00214591.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

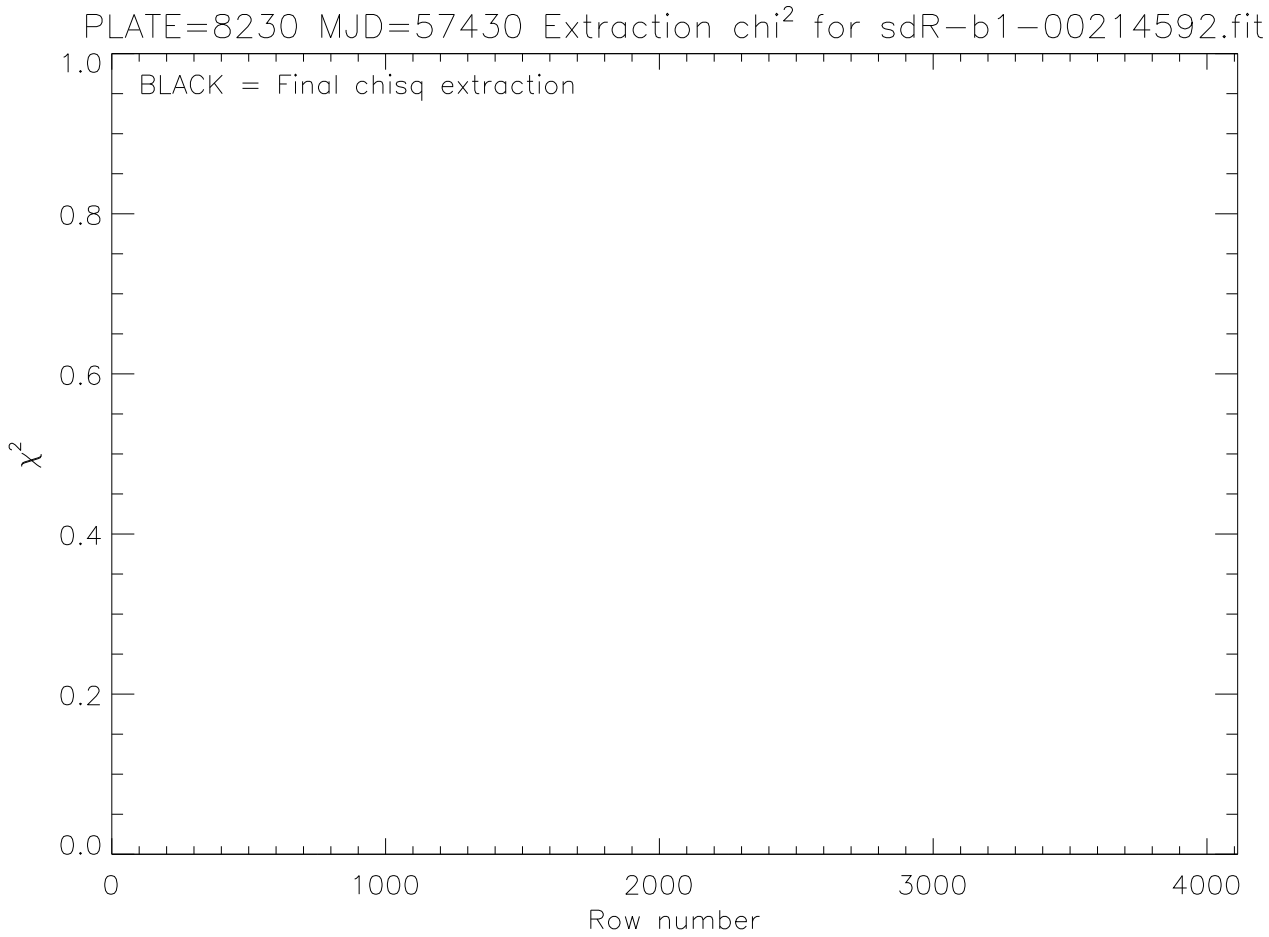
Number of sky fibers = 44

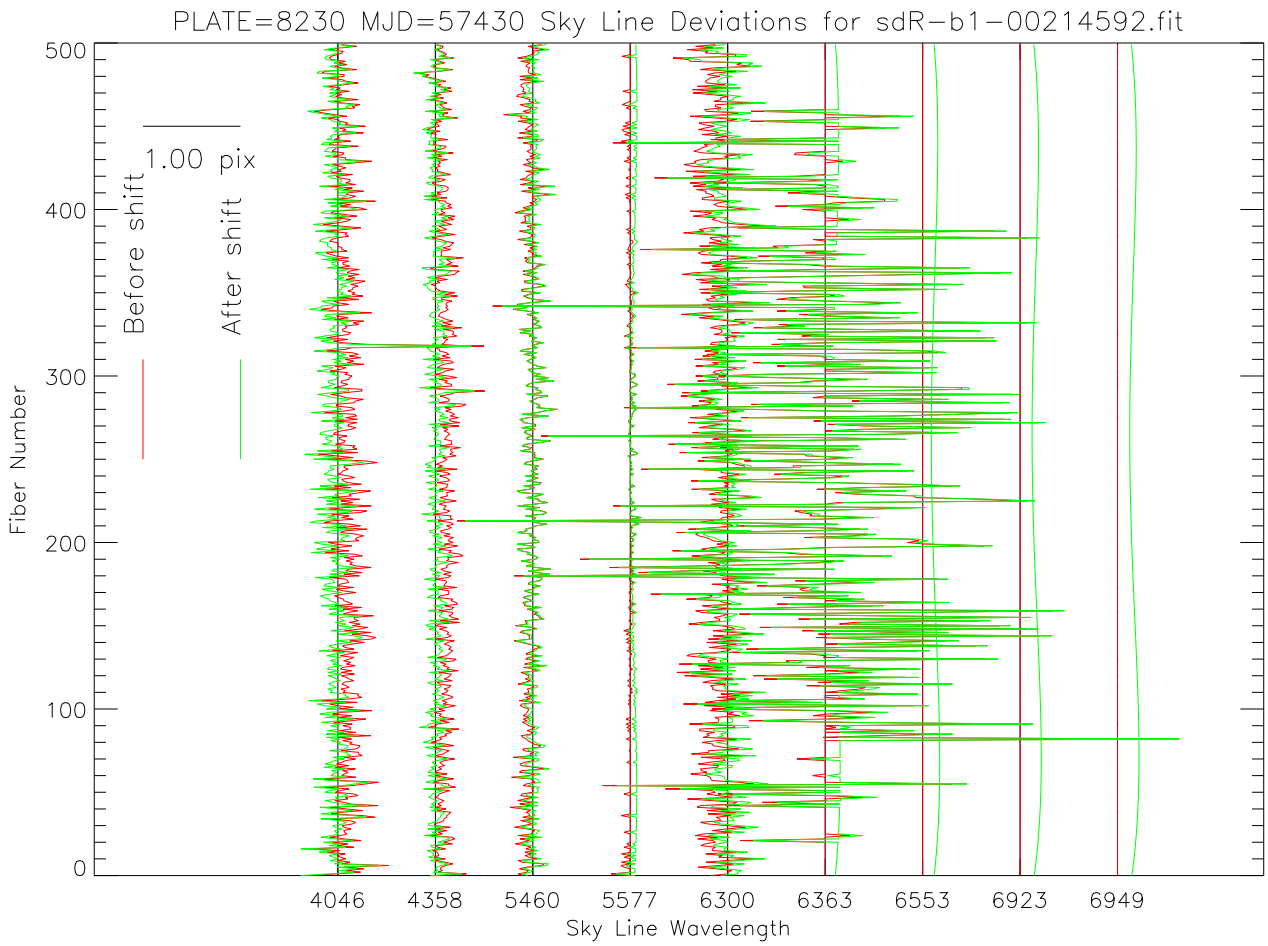


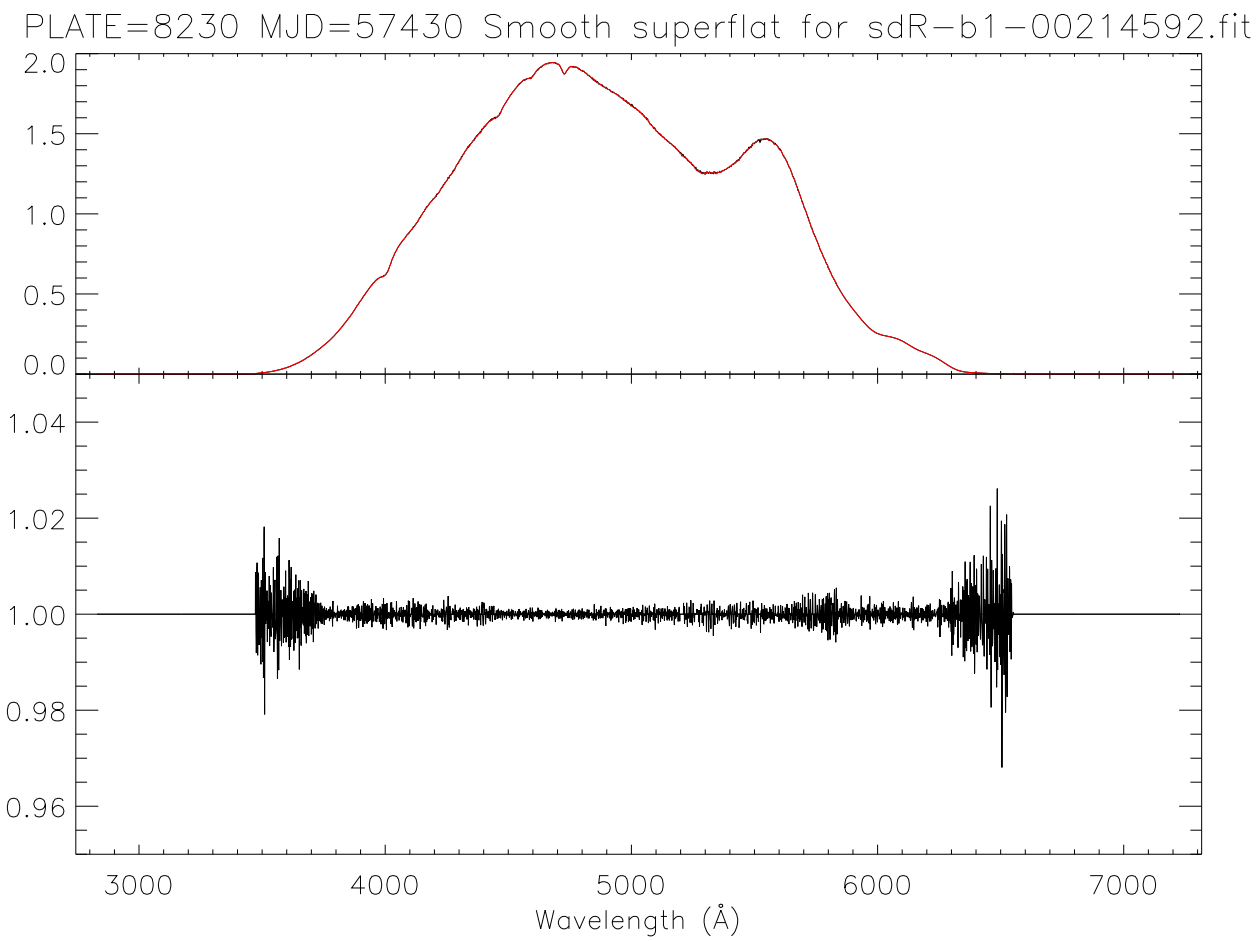

PLATE=8230 MJD=57430 sdR-b1-00214591.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 11.54 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

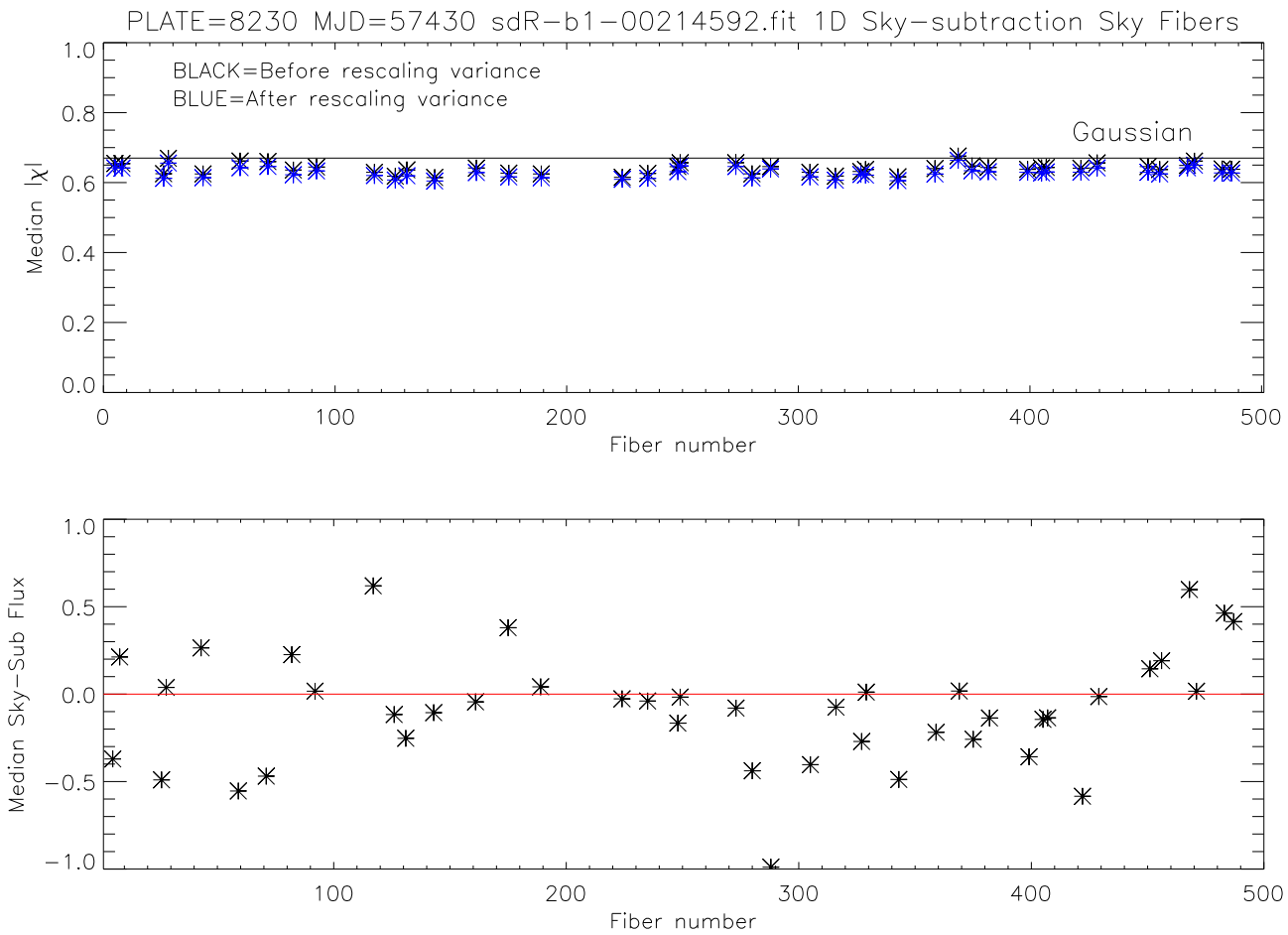

PLATE=8230 MJD=57430 sdR-b1-00214591.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
1.5×10⁴
1.0×10⁴
5.0×10³
0
−5.0×10³
RED = sky fiber
Dispersion = 28.23 %
0
100
200
300
400
500
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
1.100
1.105
1.110
1.115
1.120
1.125
1.130
Airmass

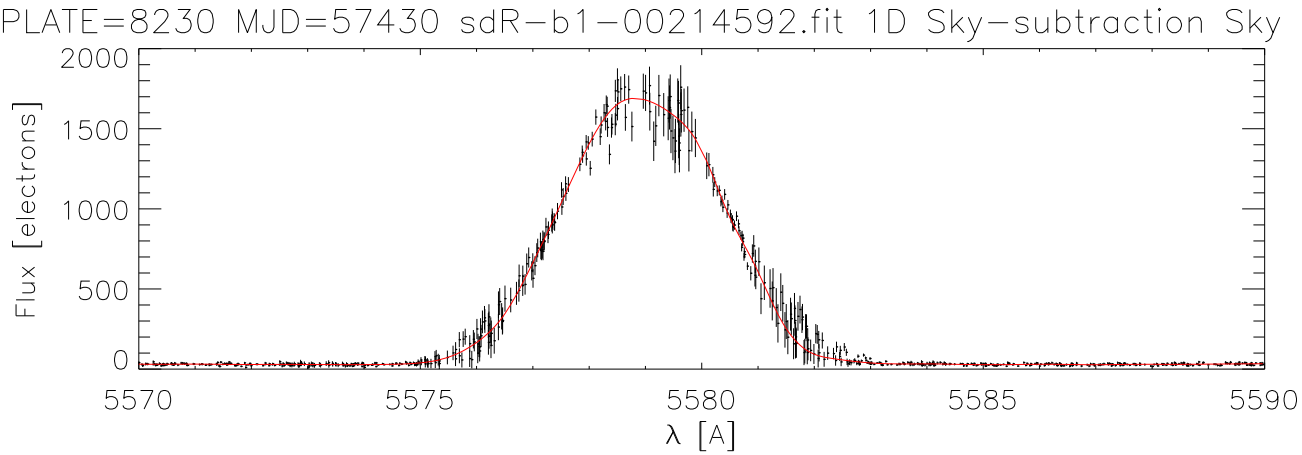

PLATE=8230 MJD=57430 Fiber-Flats for sdR-b1-00214590.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = -16.432
Max value = 15.648
Fiber-Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sun May 29 10:29:13 2016

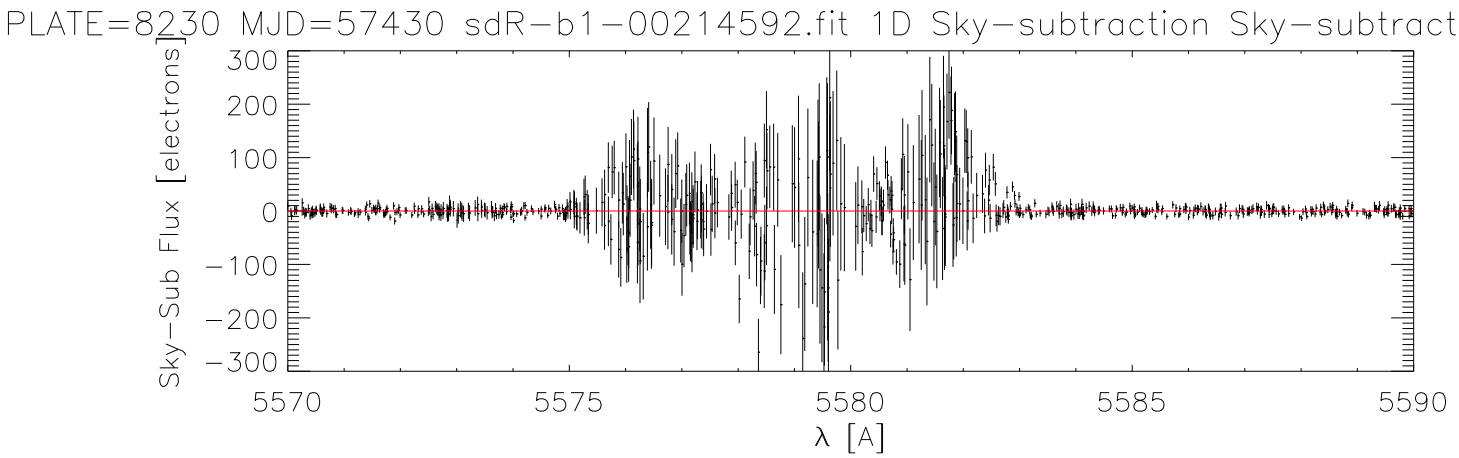

PLATE=8230 MJD=57430 Extraction chi^2 for sdR−b1−00214592.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=8230 MJD=57430 Sky Line Deviations for sdR-b1-00214592.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

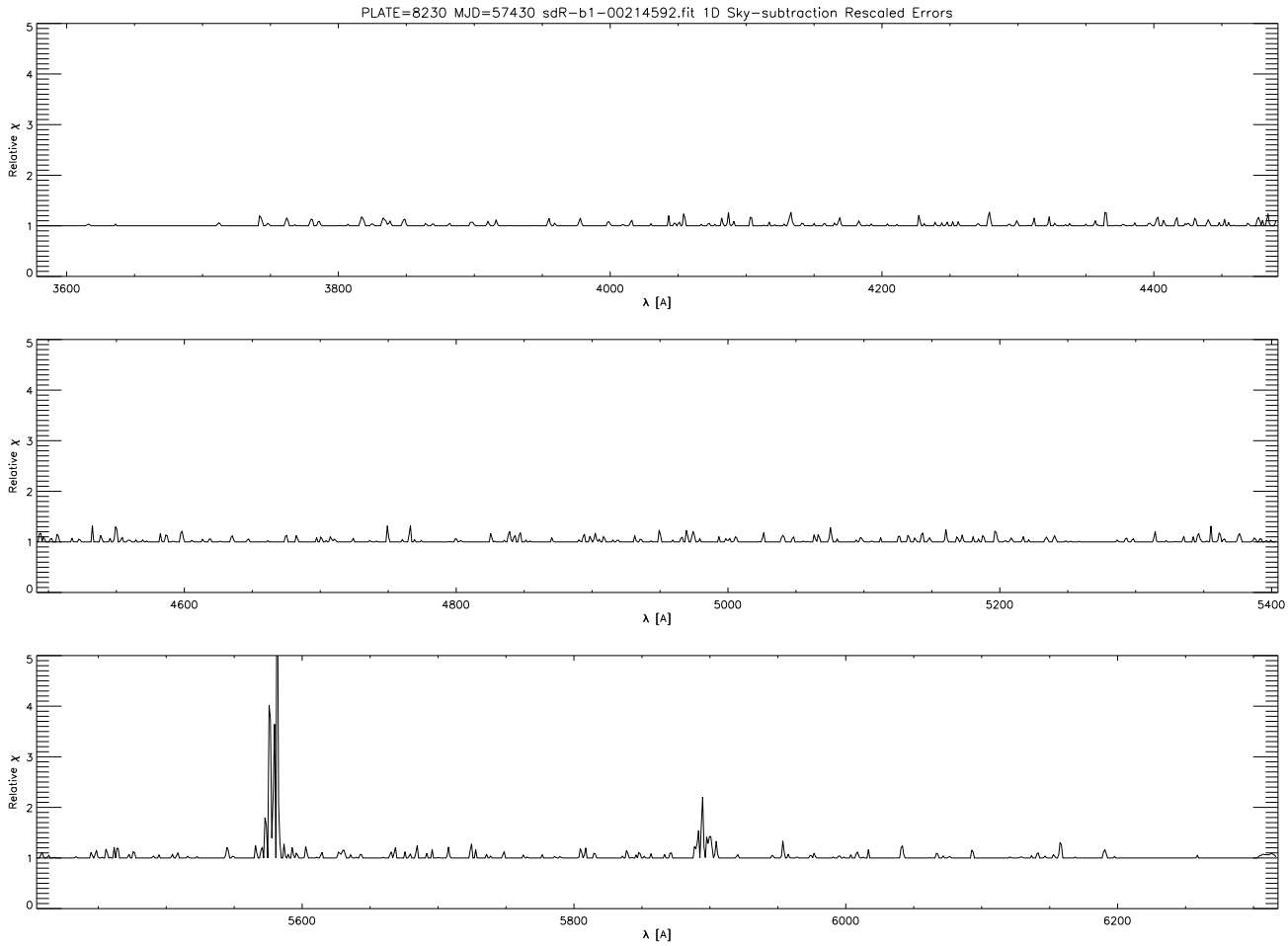

PLATE=8230 MJD=57430 Smooth superflat for sdR-b1-00214592.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

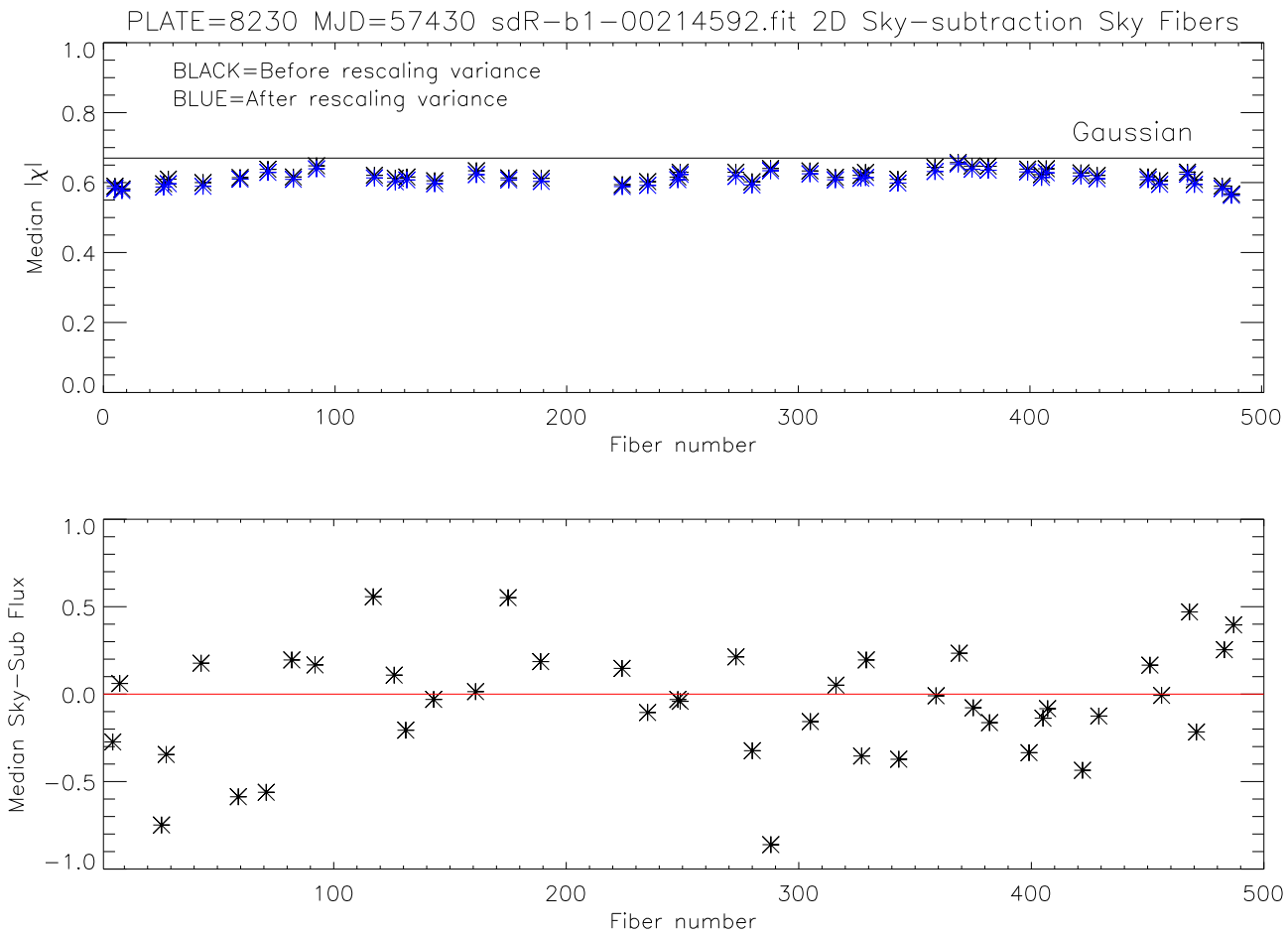

PLATE=8230 MJD=57430 sdR-b1-00214592.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

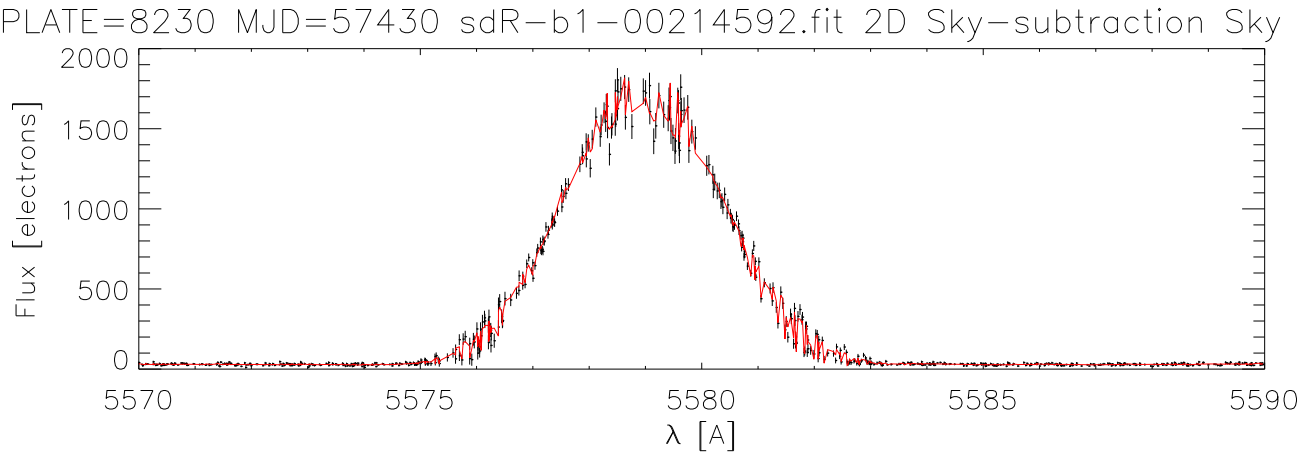

PLATE=8230 MJD=57430 sdR-b1-00214592.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

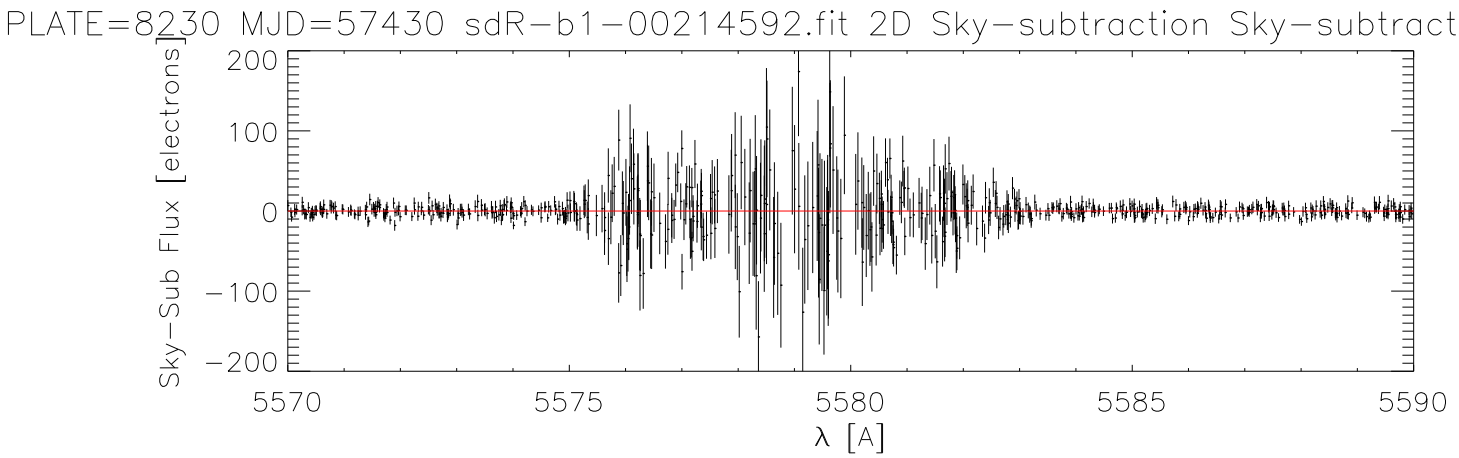

PLATE=8230 MJD=57430 sdR-b1-00214592.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 43

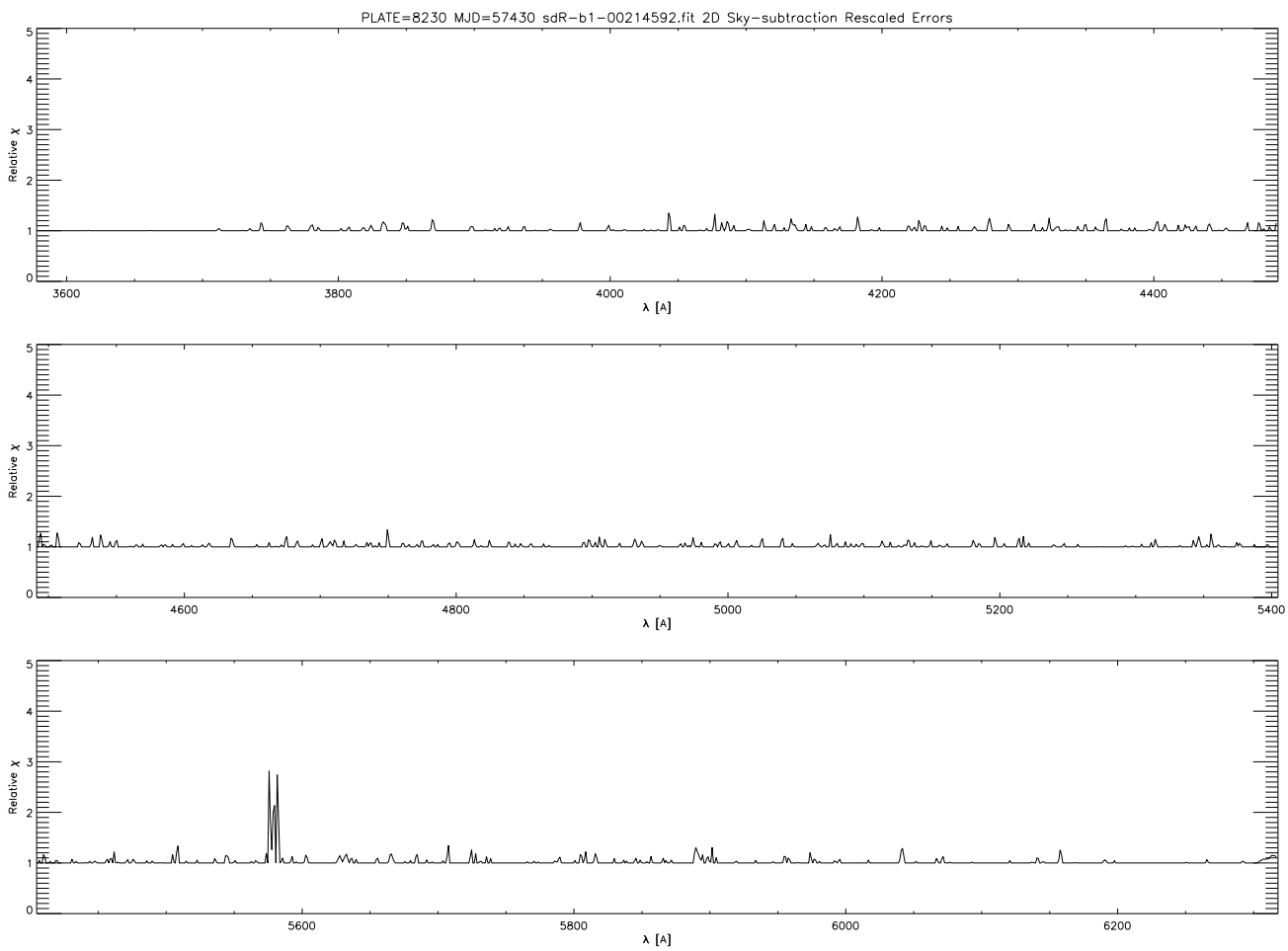


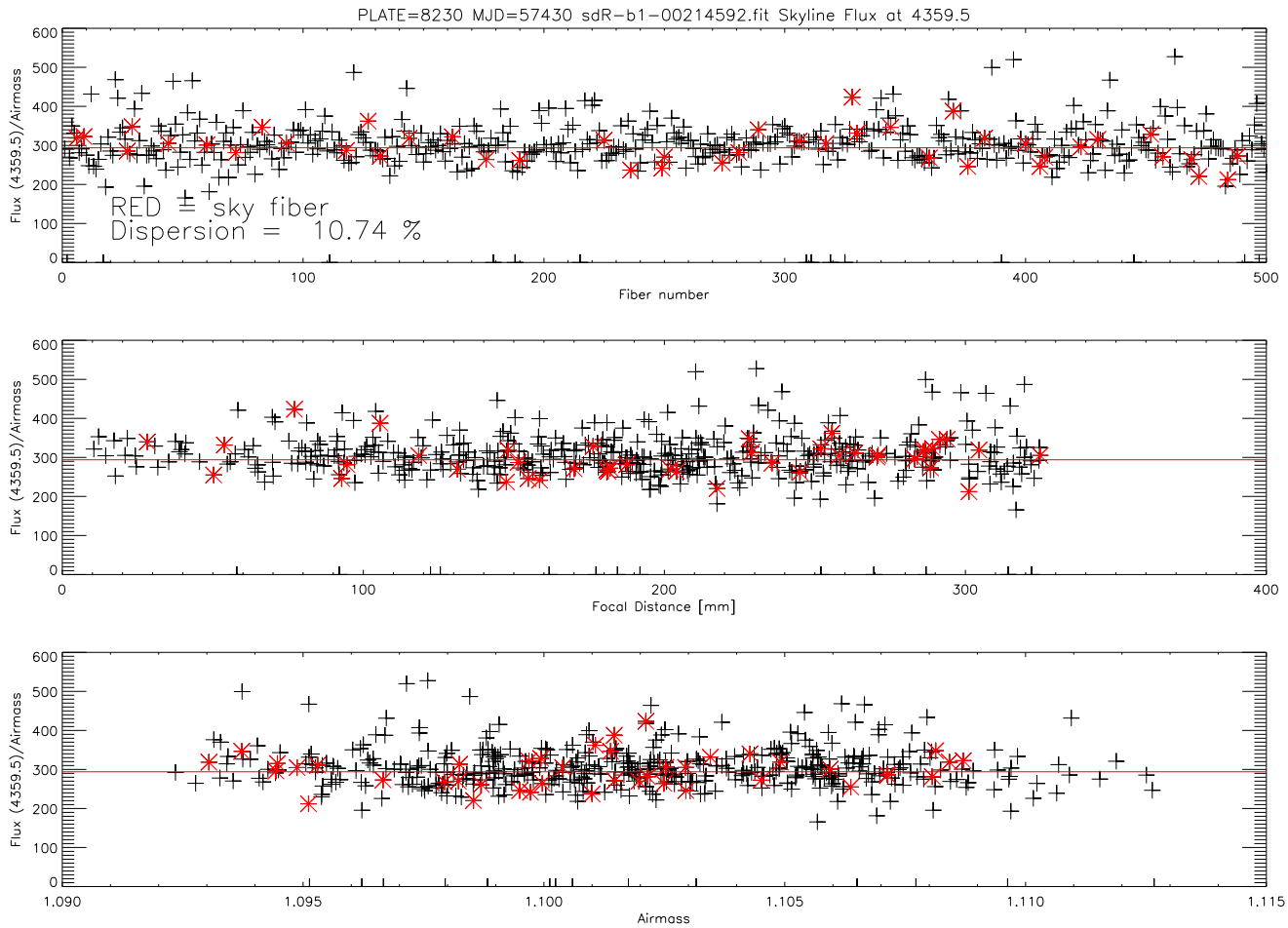

PLATE=8230 MJD=57430 sdR-b1-00214592.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

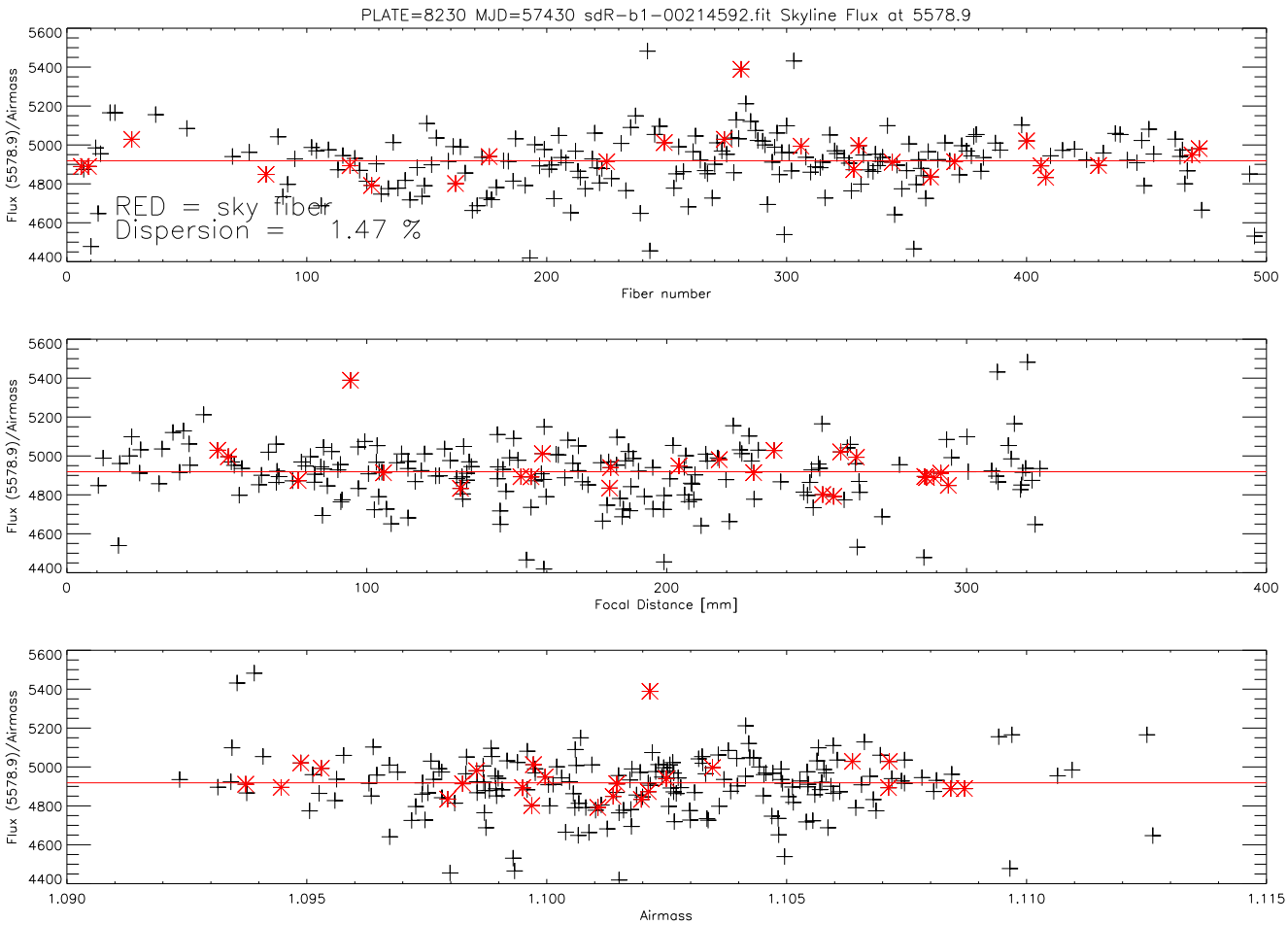

PLATE=8230 MJD=57430 sdR-b1-00214592.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

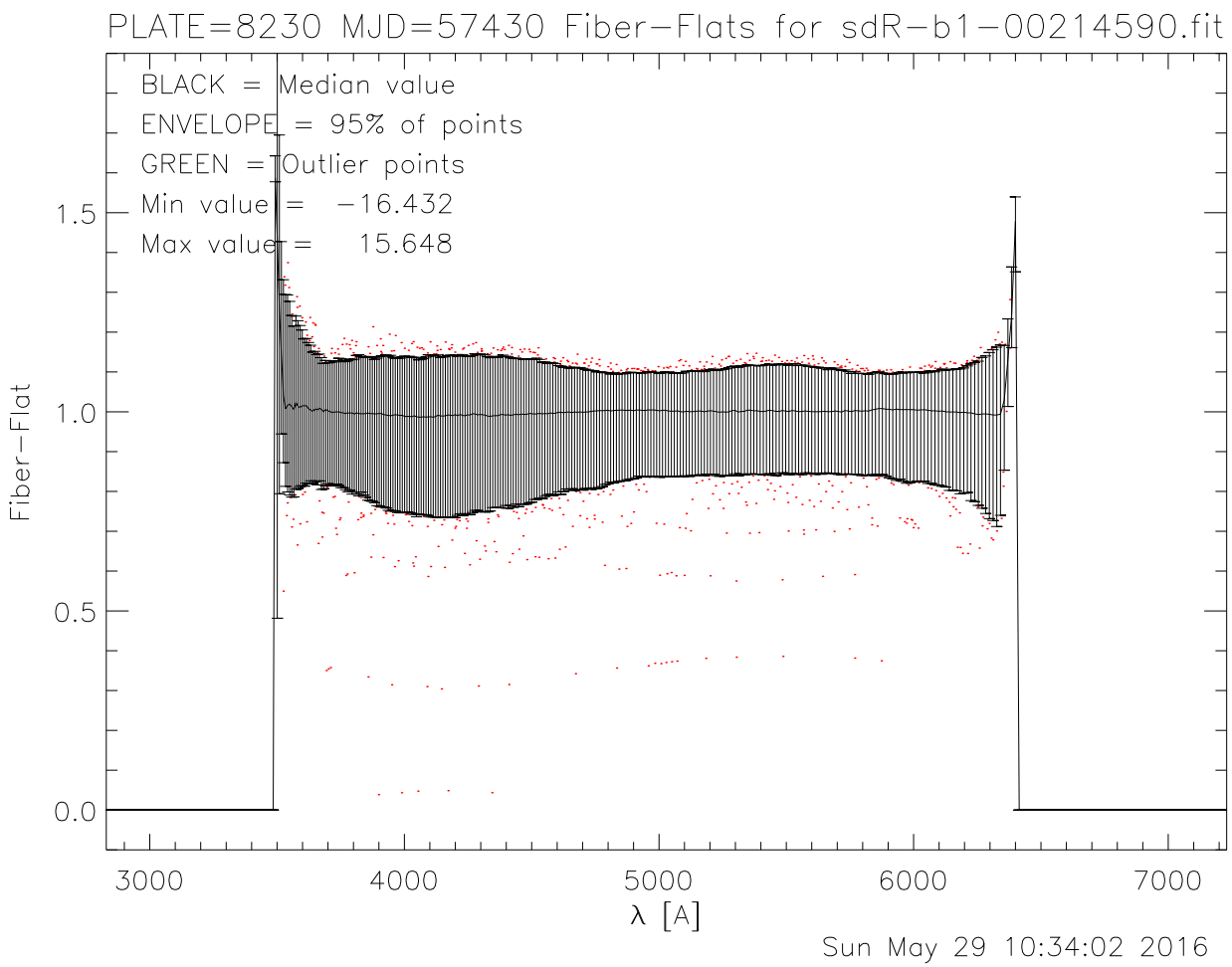

PLATE=8230 MJD=57430 sdR-b1-00214592.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

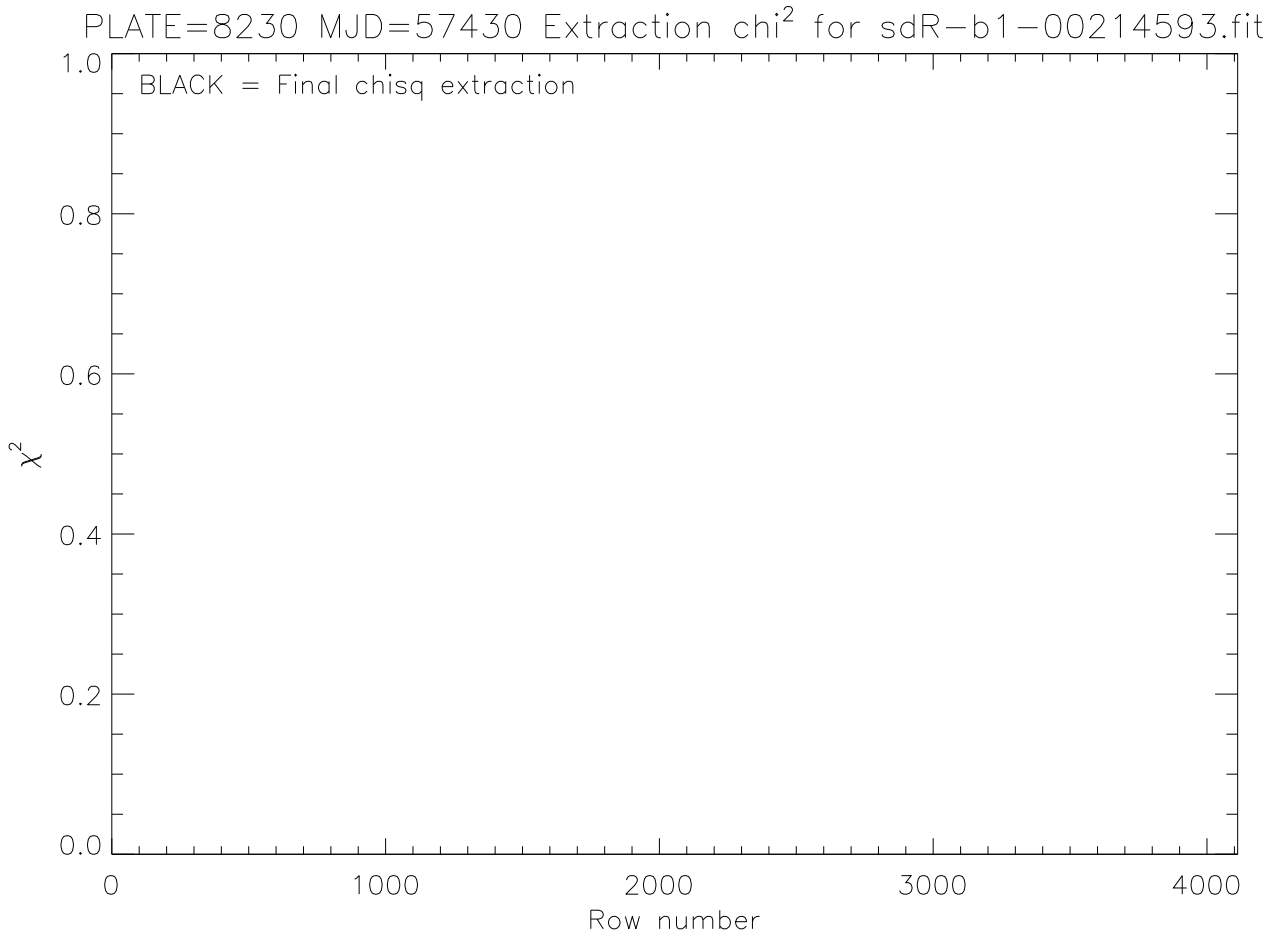
Number of sky fibers = 43

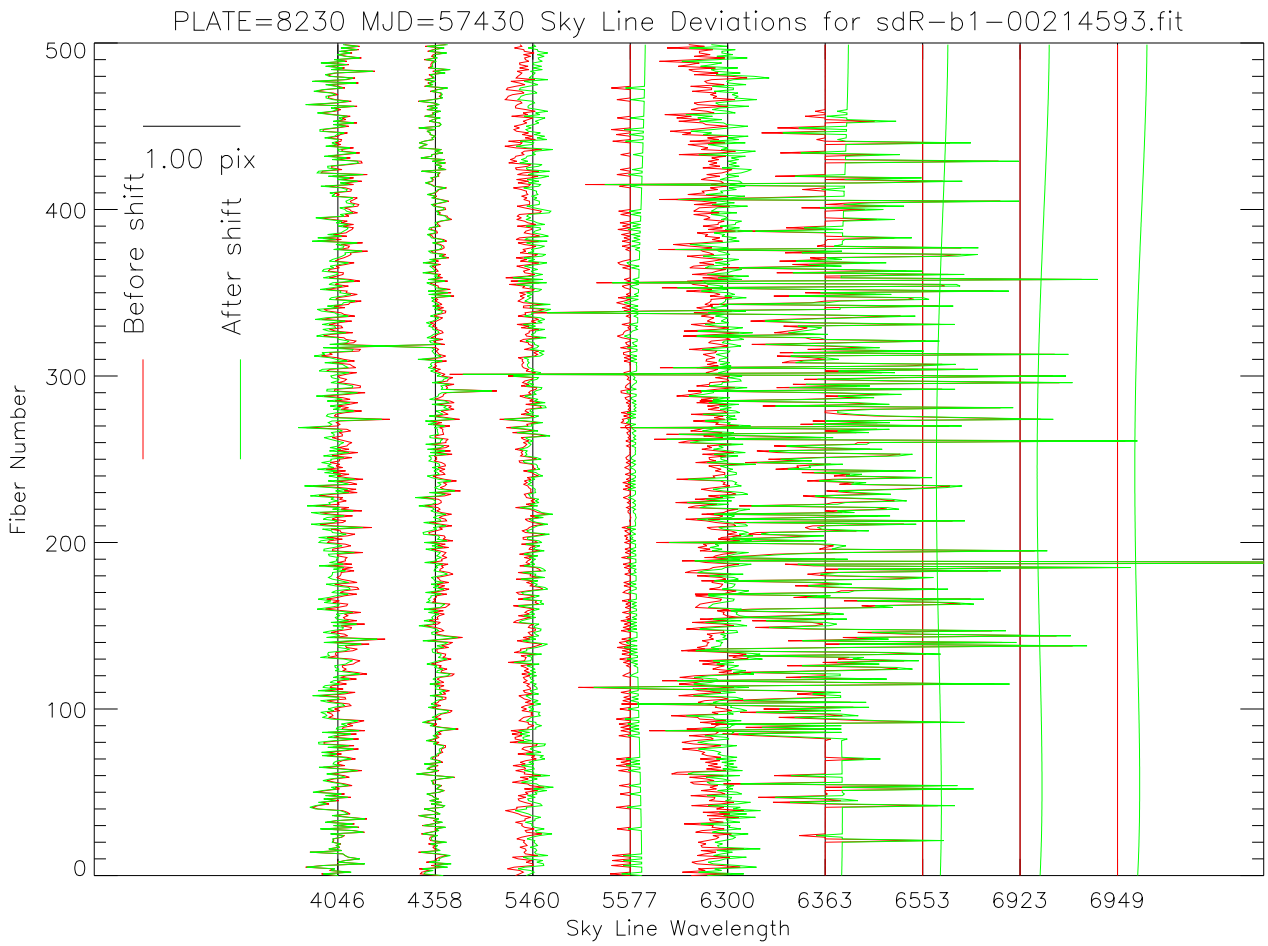


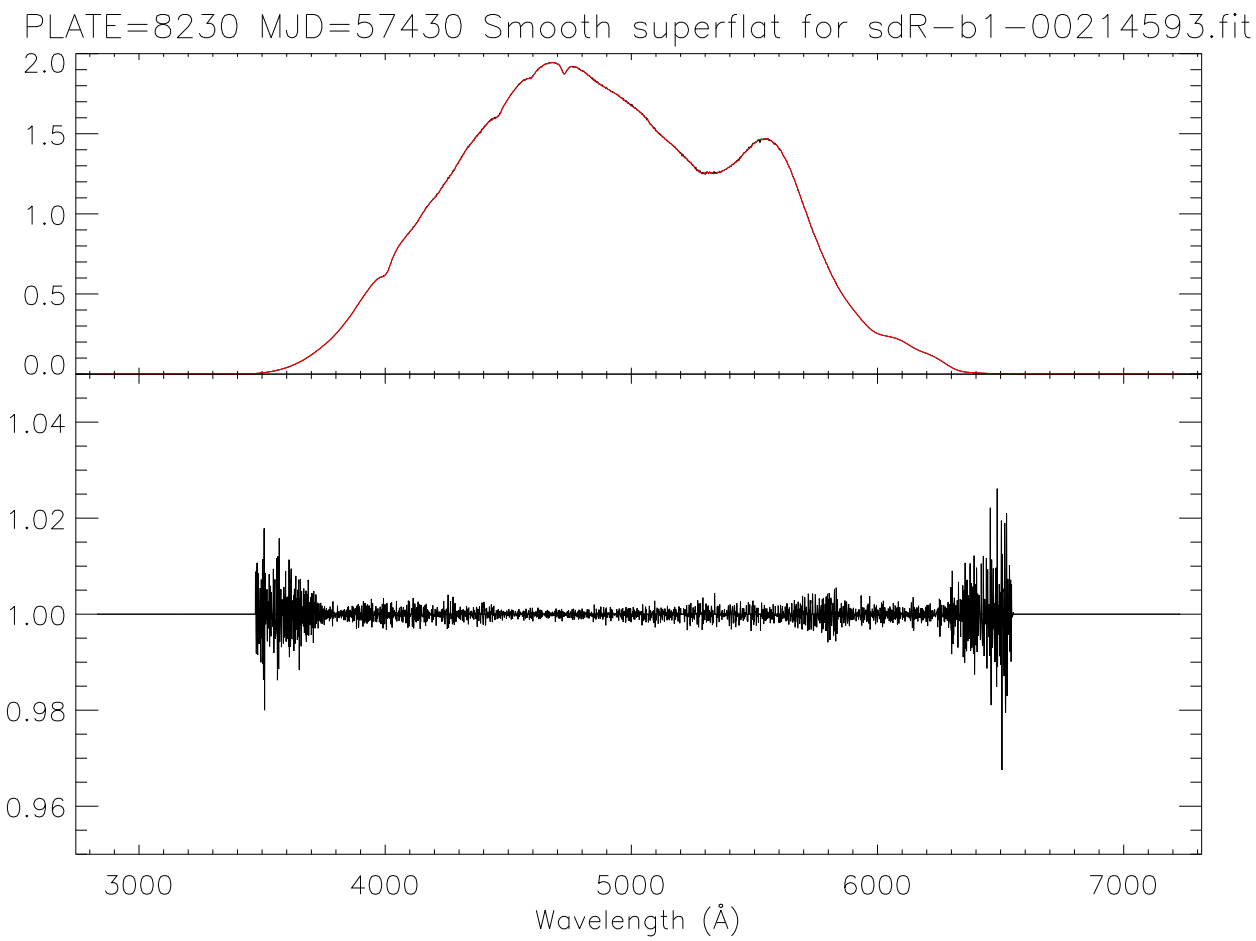

PLATE=8230 MJD=57430 sdR-b1-00214592.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 10.74 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

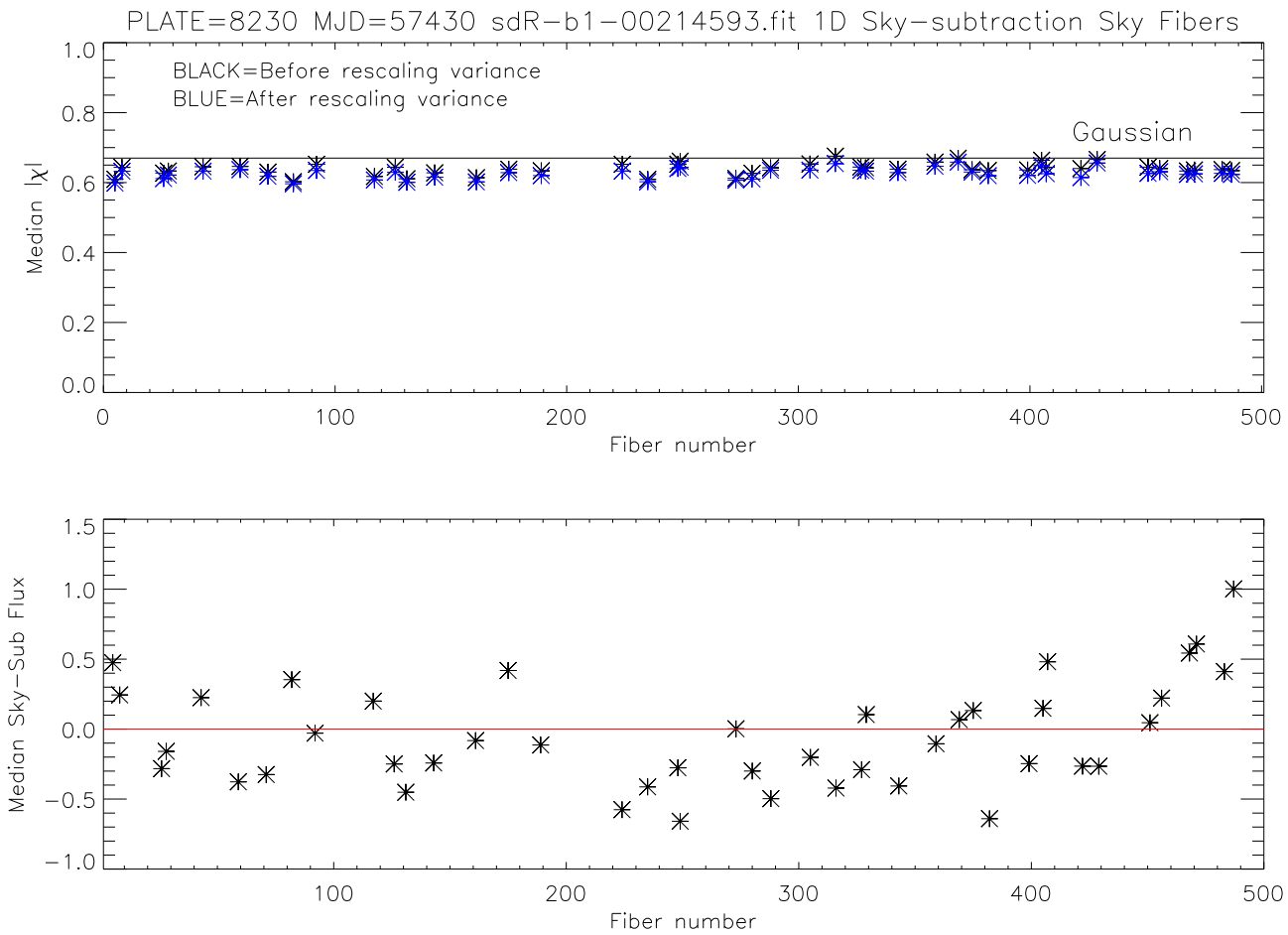

PLATE=8230 MJD=57430 sdR-b1-00214592.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.47 %
Fiber number
Focal Distance [mm]
Airmass

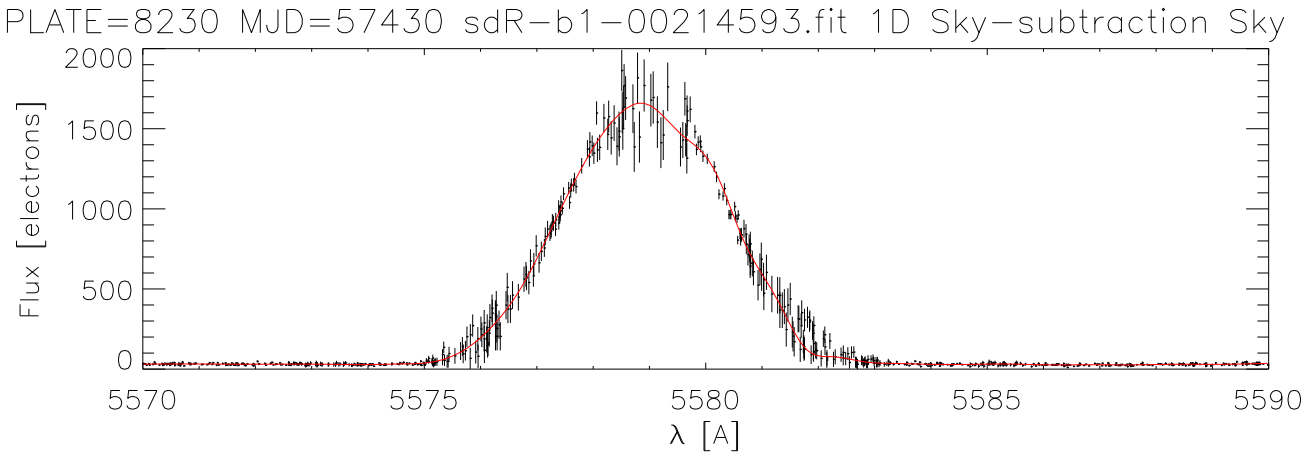

PLATE=8230 MJD=57430 Fiber−Flats for sdR−b1−00214590.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −16.432
Max value = 15.648
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sun May 29 10:34:02 2016

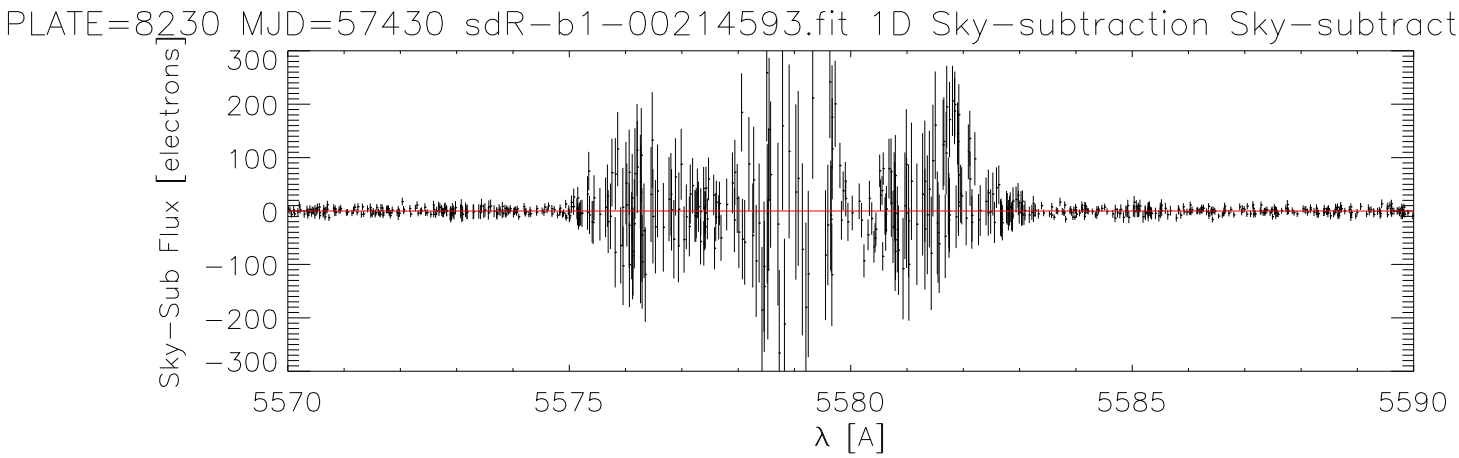

PLATE=8230 MJD=57430 Extraction chi^2 for sdR−b1−00214593.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=8230 MJD=57430 Sky Line Deviations for sdR-b1-00214593.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

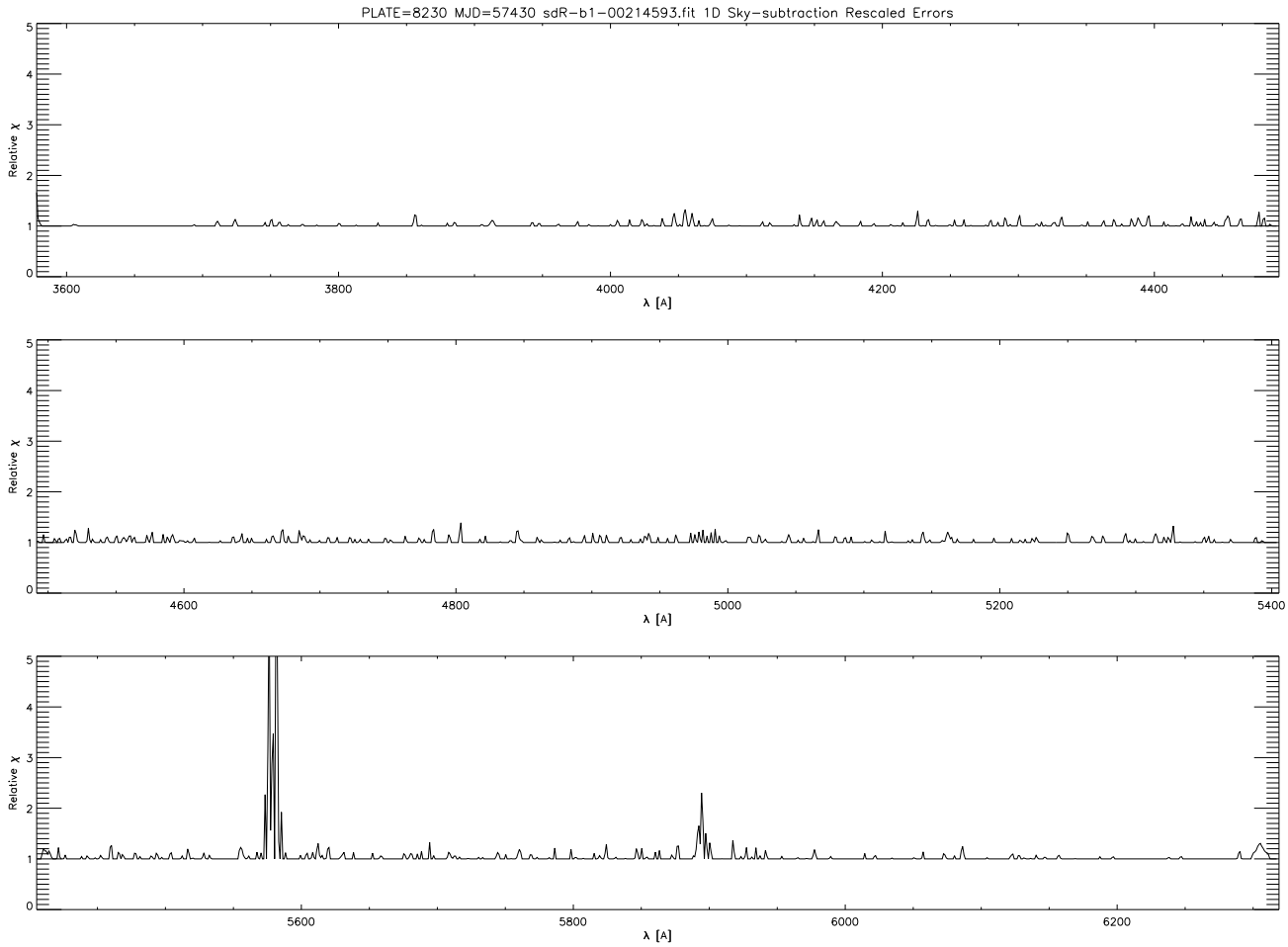

PLATE=8230 MJD=57430 Smooth superflat for sdR-b1-00214593.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

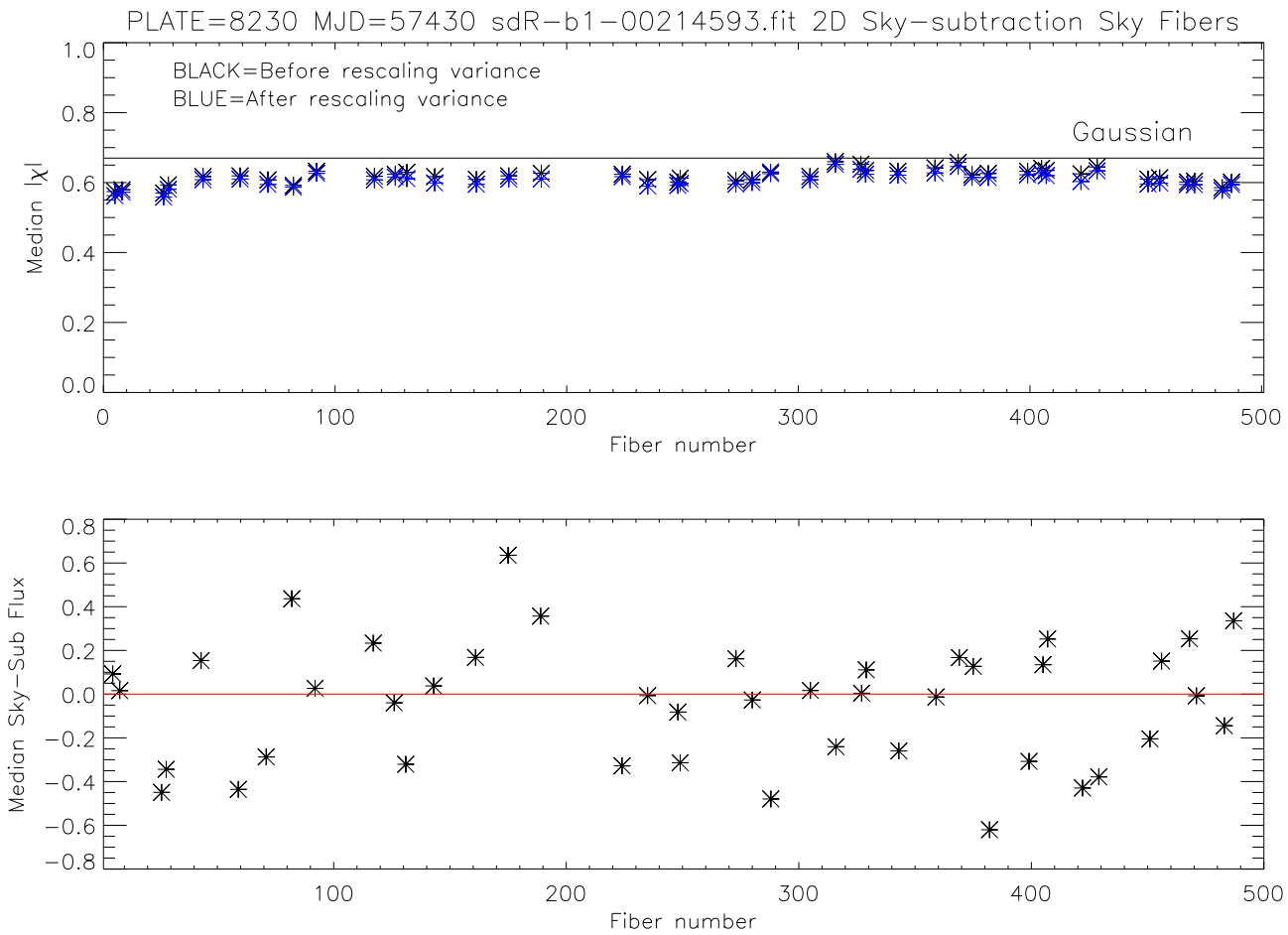

PLATE=8230 MJD=57430 sdR-b1-00214593.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

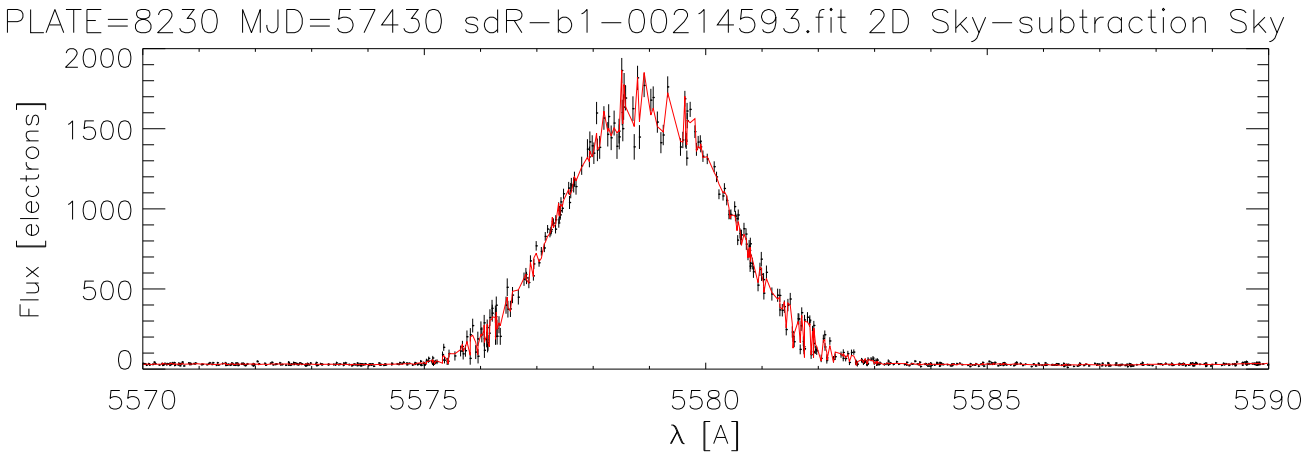

PLATE=8230 MJD=57430 sdR-b1-00214593.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

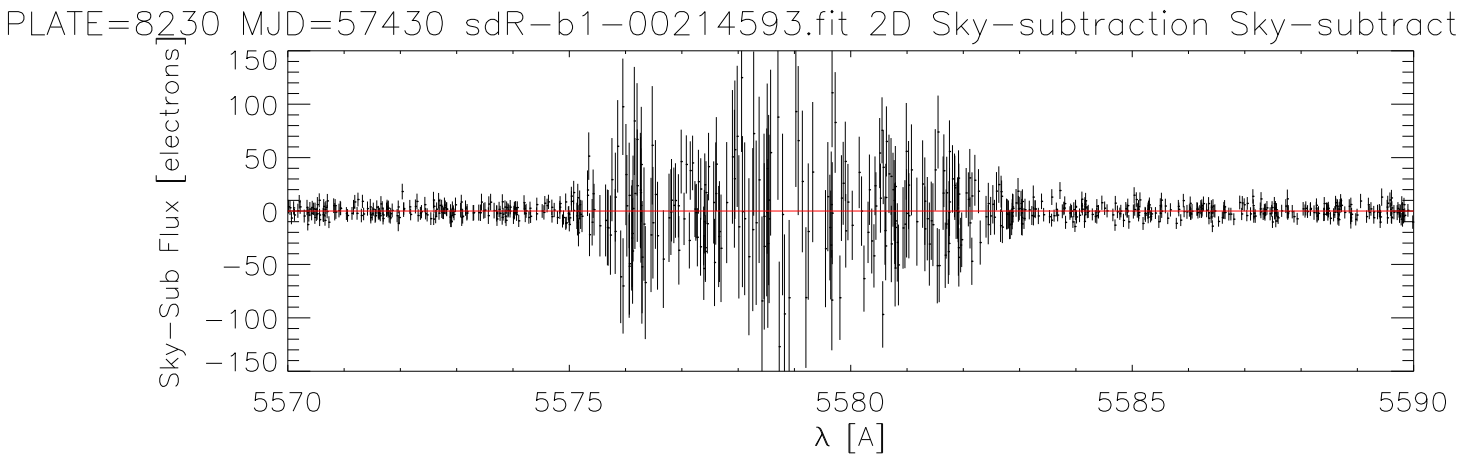

PLATE=8230 MJD=57430 sdR-b1-00214593.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 43

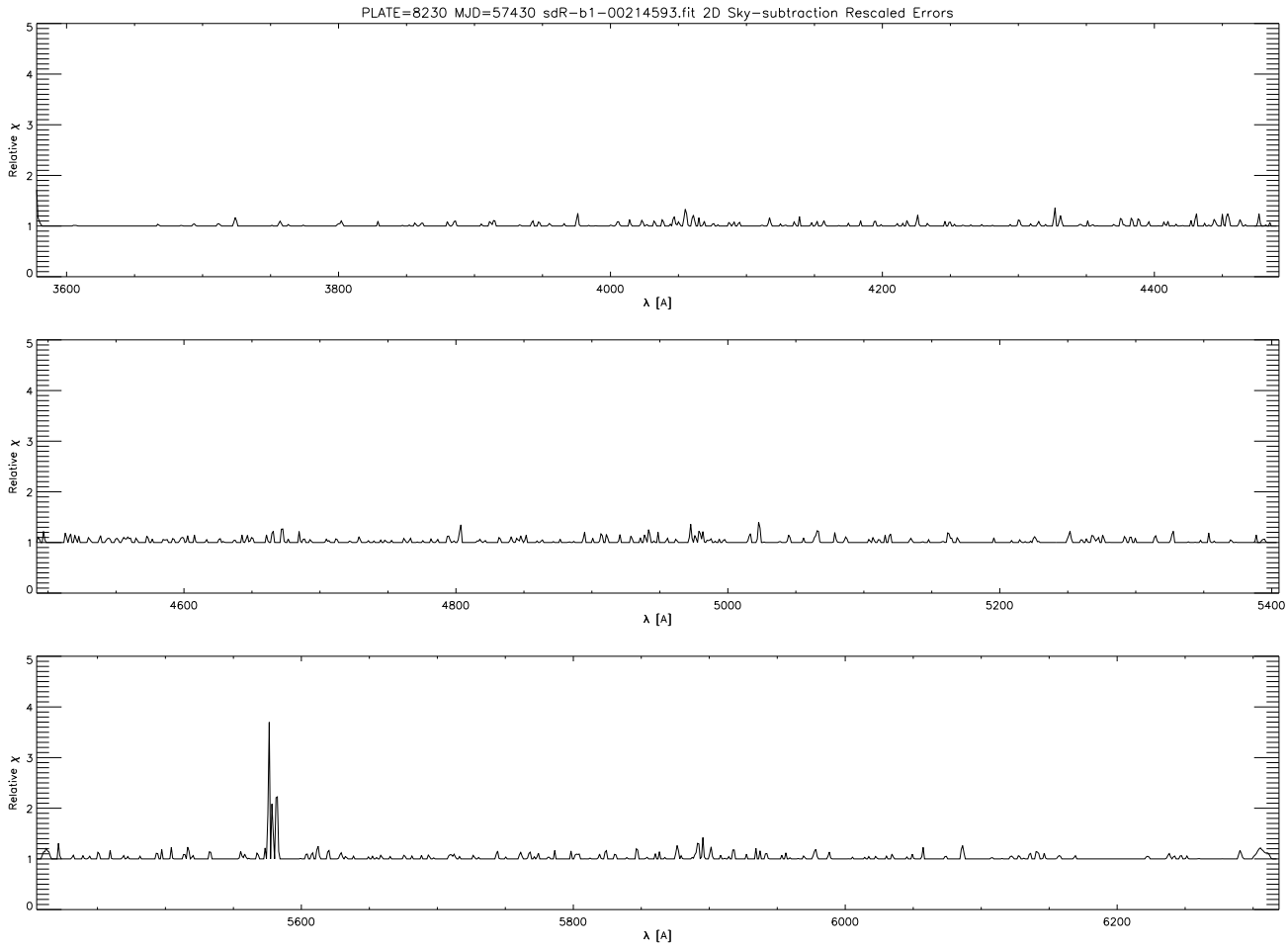


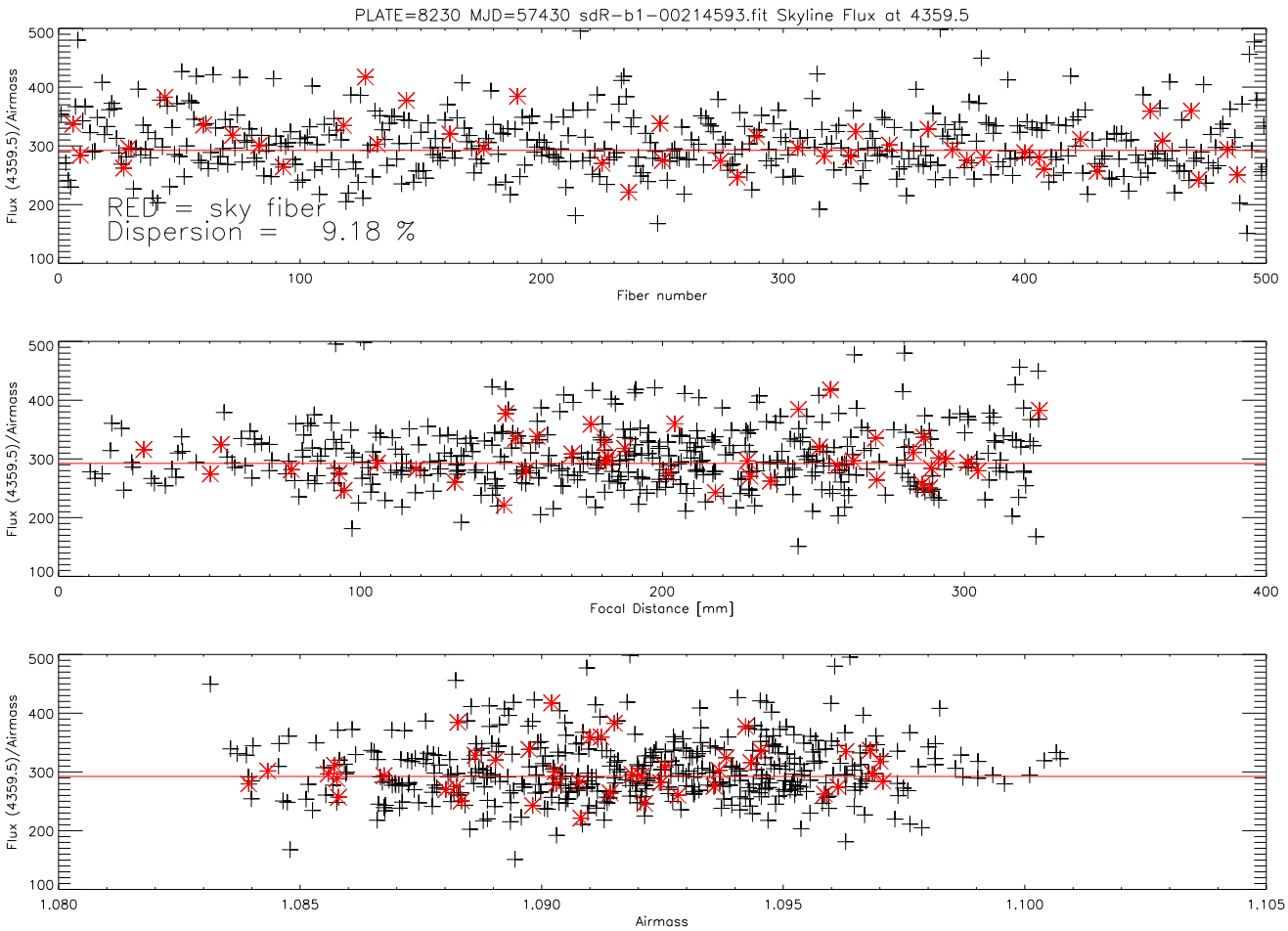

PLATE=8230 MJD=57430 sdR-b1-00214593.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

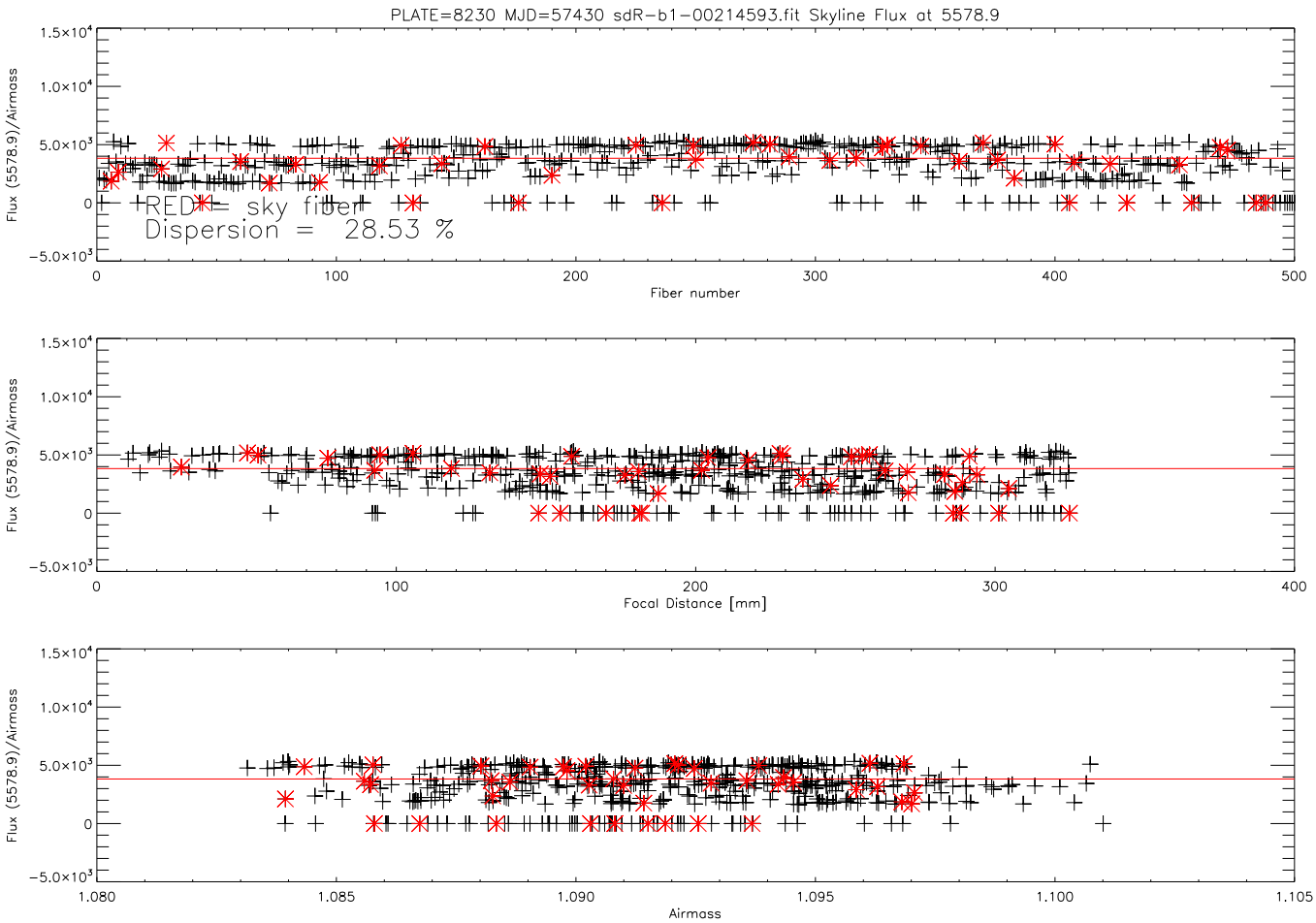

PLATE=8230 MJD=57430 sdR-b1-00214593.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

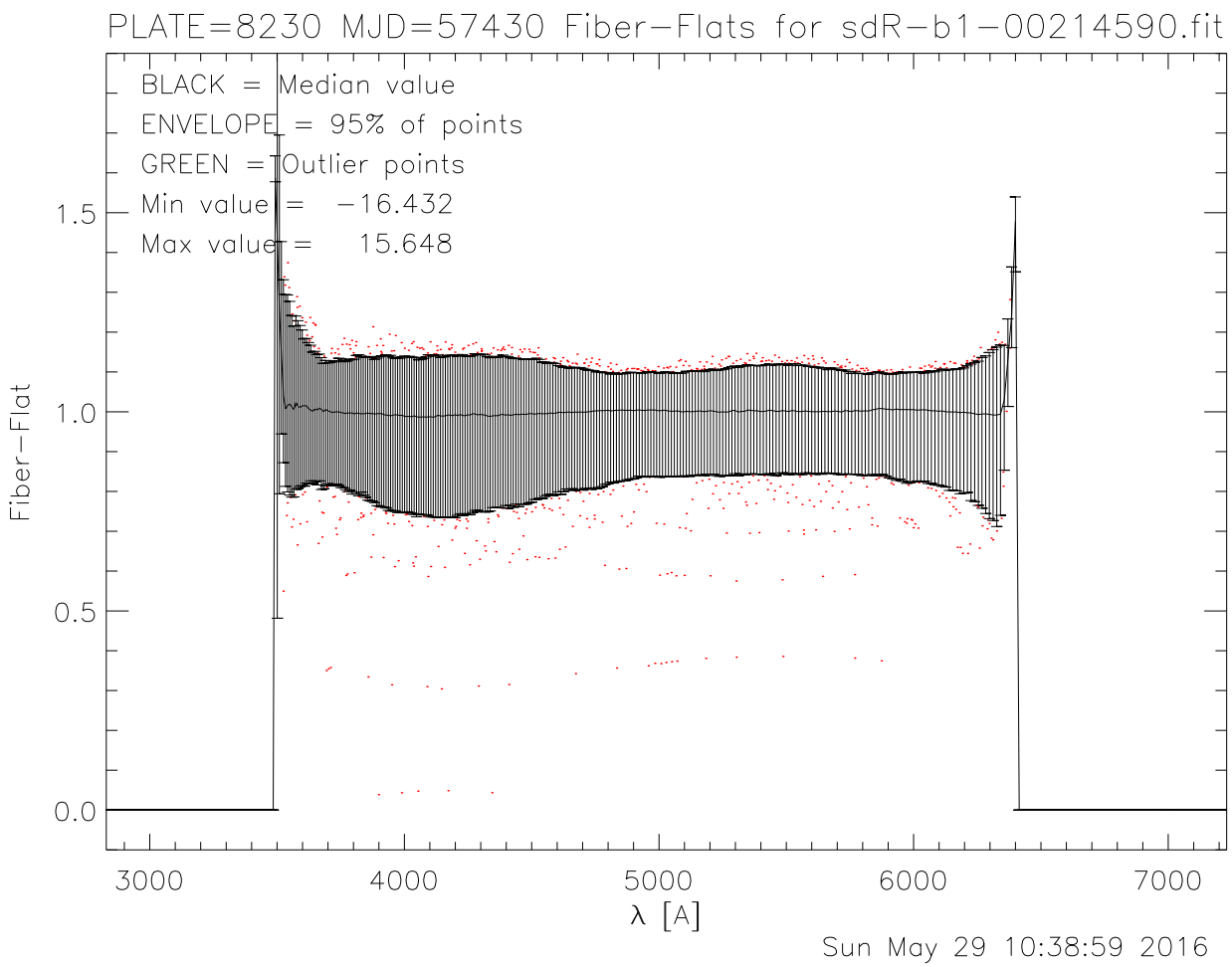

PLATE=8230 MJD=57430 sdR-b1-00214593.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
5570
5575
5580
5585
5590
λ [A]

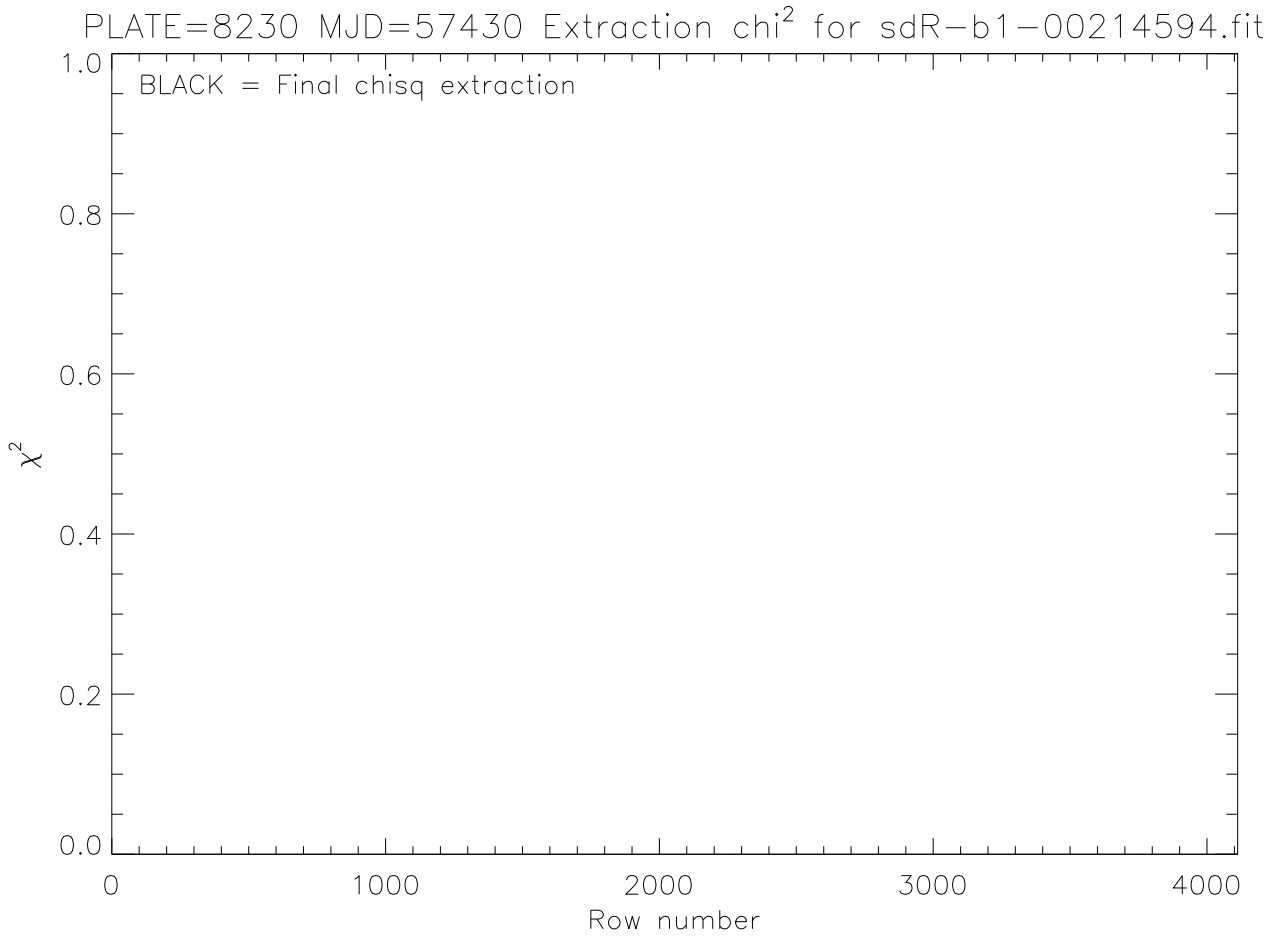
Number of sky fibers = 43

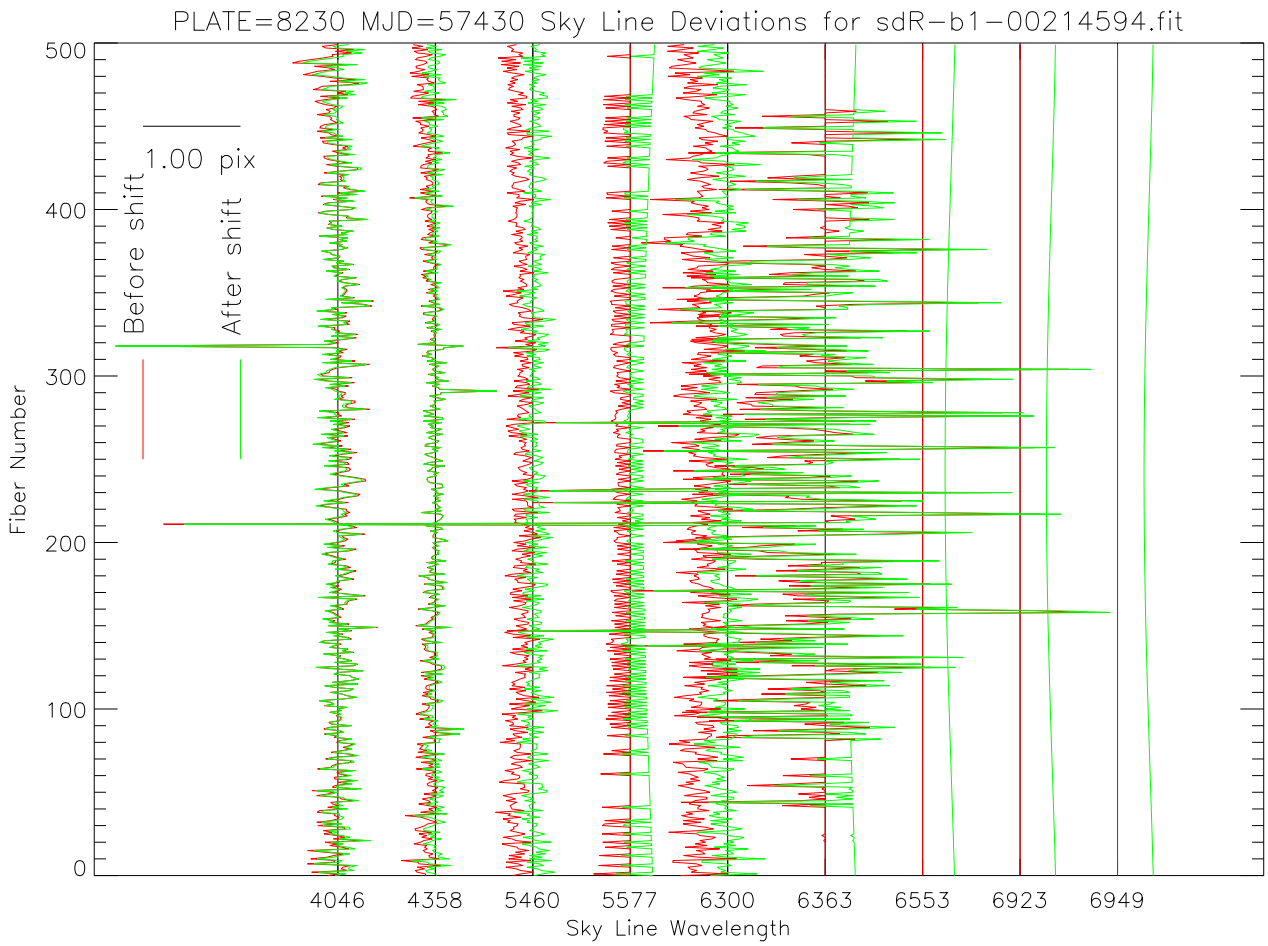


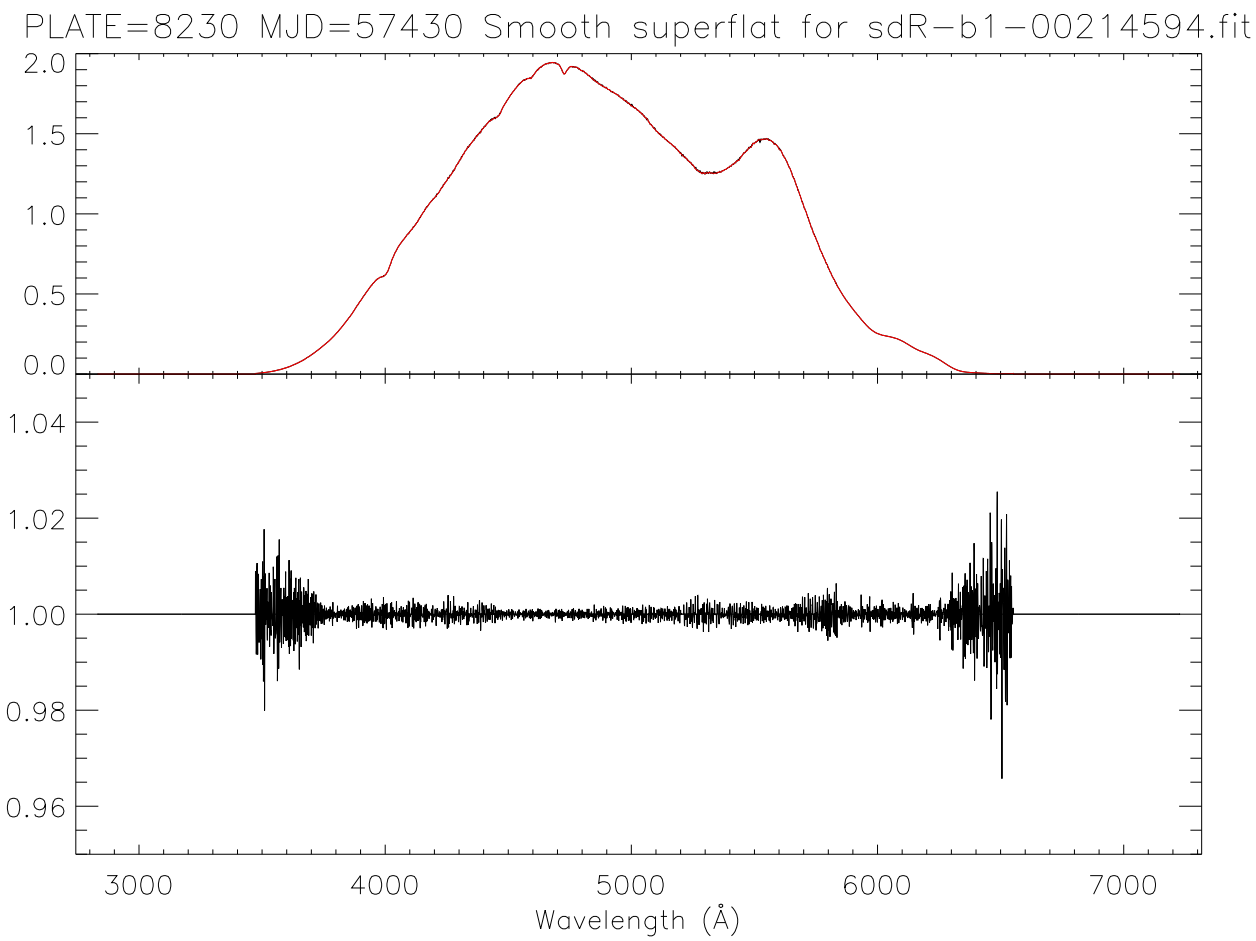

PLATE=8230 MJD=57430 sdR-b1-00214593.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 9.18 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

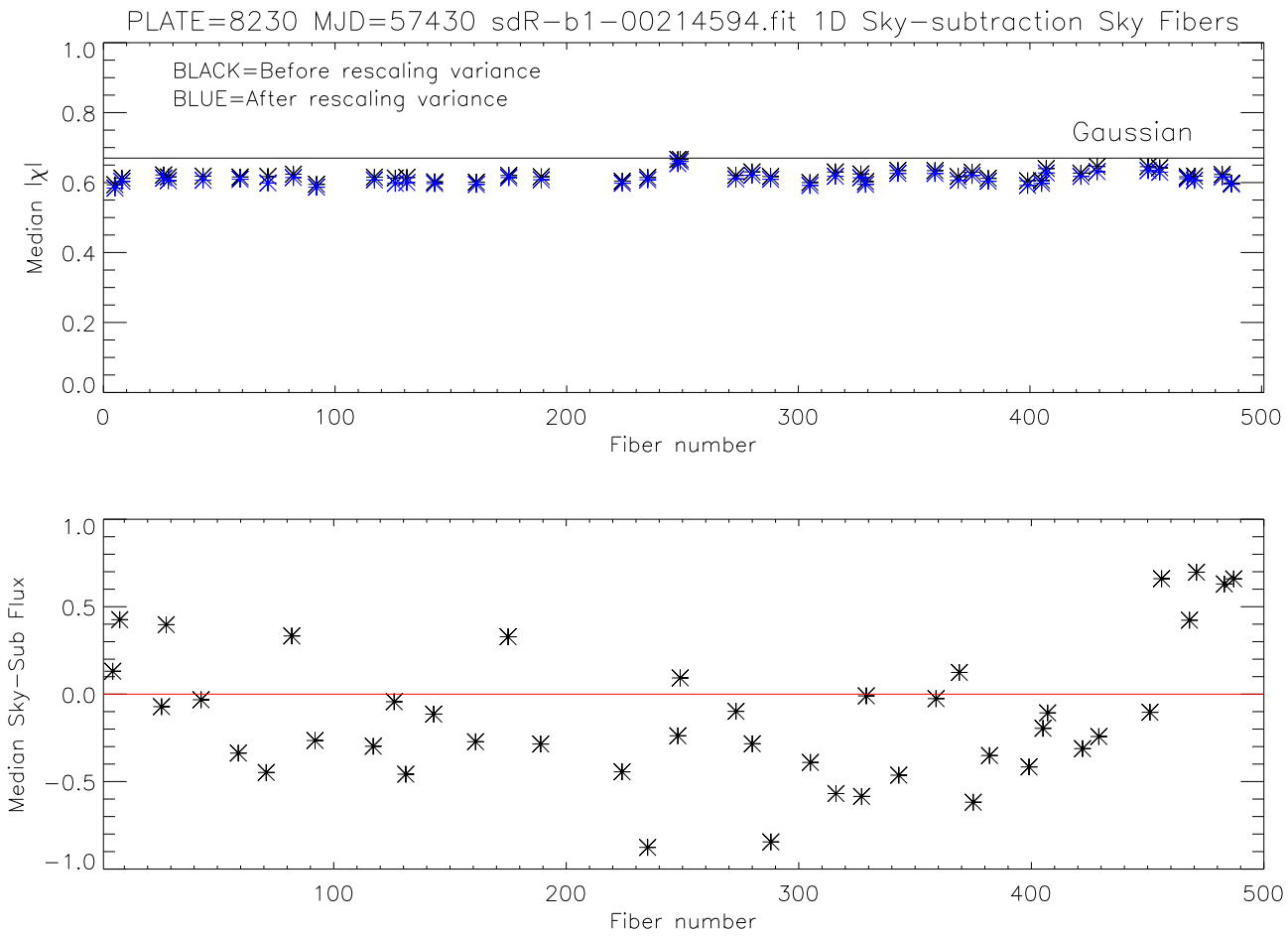

PLATE=8230 MJD=57430 sdR-b1-00214593.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
1.5×10⁴
1.0×10⁴
5.0×10³
0
−5.0×10³
RED = sky fiber
Dispersion = 28.53 %
0
100
200
300
400
500
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
1.080
1.085
1.090
1.095
1.100
1.105
Airmass

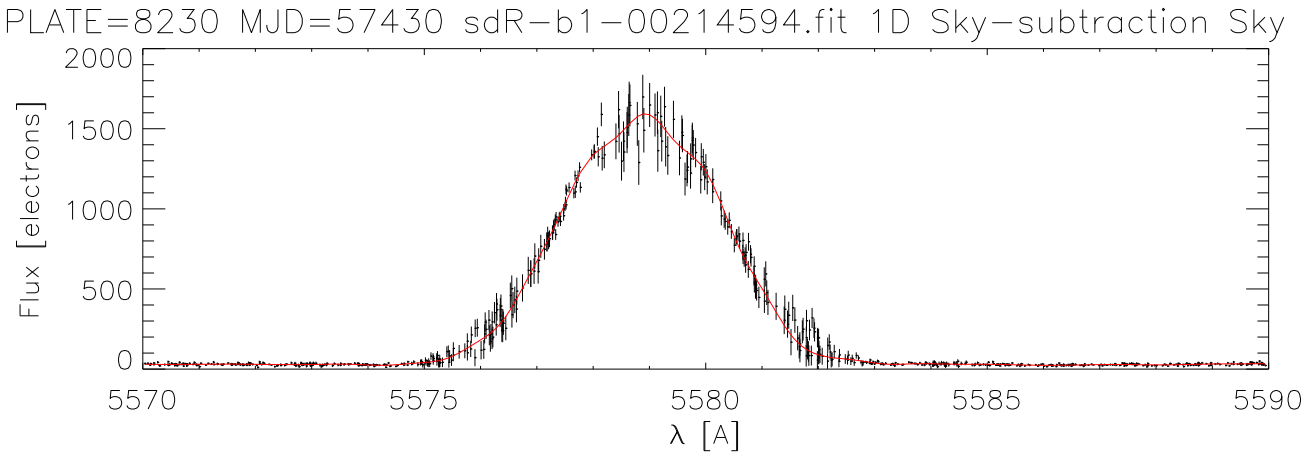

PLATE=8230 MJD=57430 Fiber-Flats for sdR-b1-00214590.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = -16.432
Max value = 15.648
Fiber-Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sun May 29 10:38:59 2016

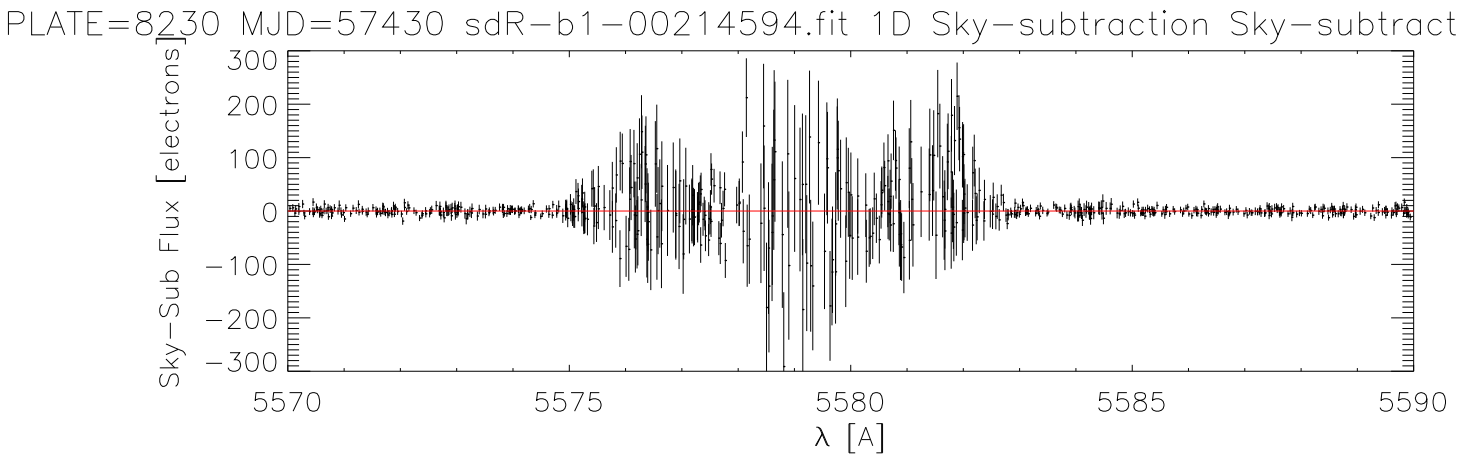

PLATE=8230 MJD=57430 Extraction chi^2 for sdR−b1−00214594.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=8230 MJD=57430 Sky Line Deviations for sdR-b1-00214594.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

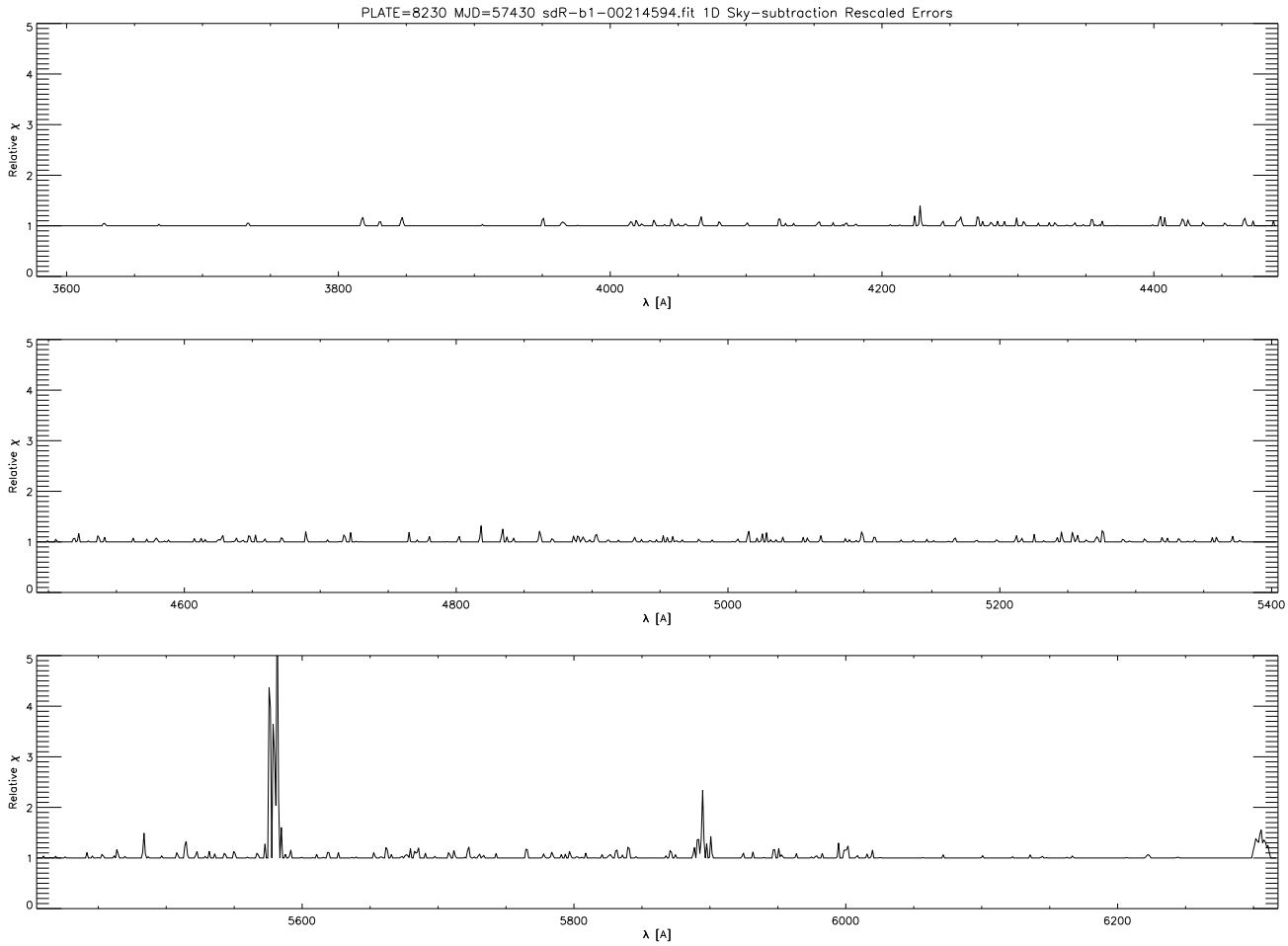

PLATE=8230 MJD=57430 Smooth superflat for sdR-b1-00214594.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

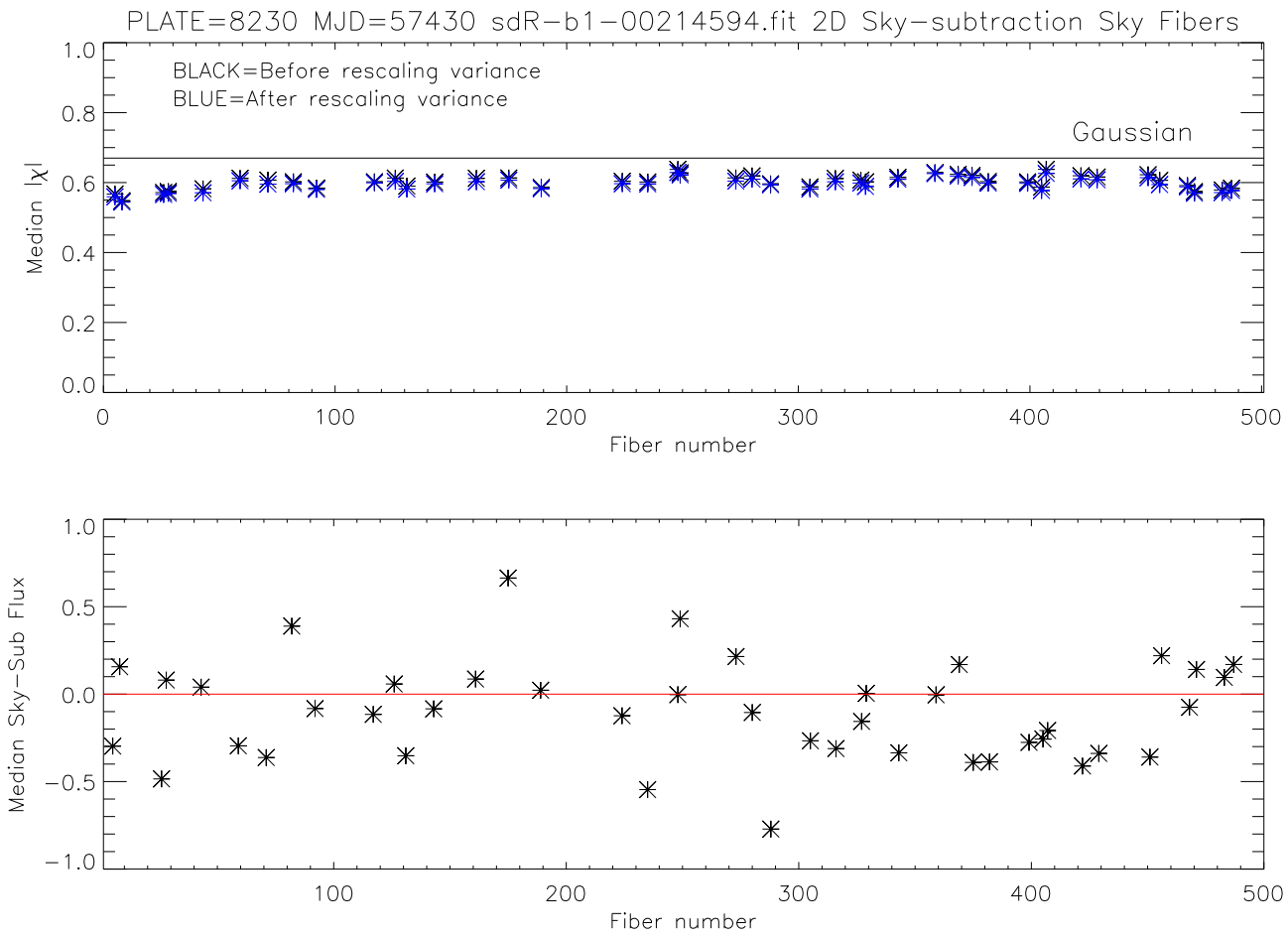

PLATE=8230 MJD=57430 sdR-b1-00214594.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

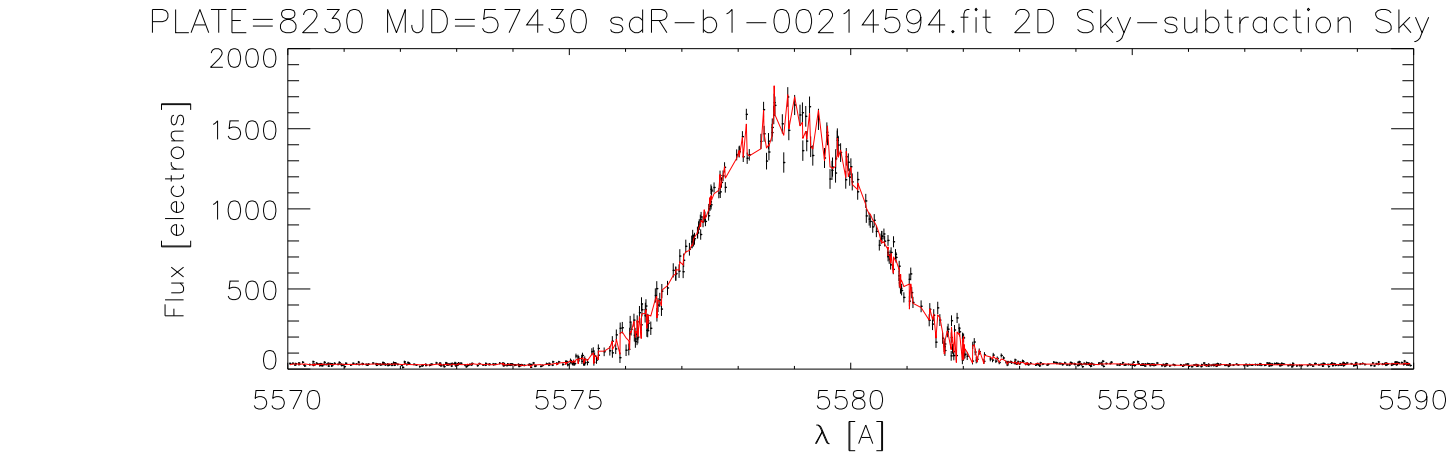

PLATE=8230 MJD=57430 sdR-b1-00214594.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

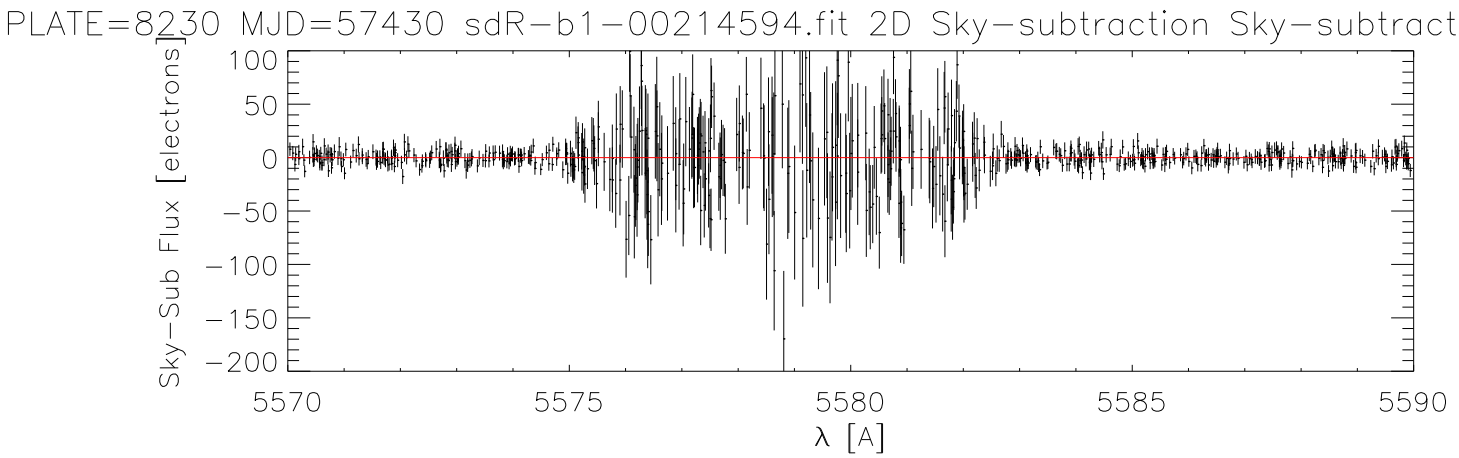

PLATE=8230 MJD=57430 sdR-b1-00214594.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 43

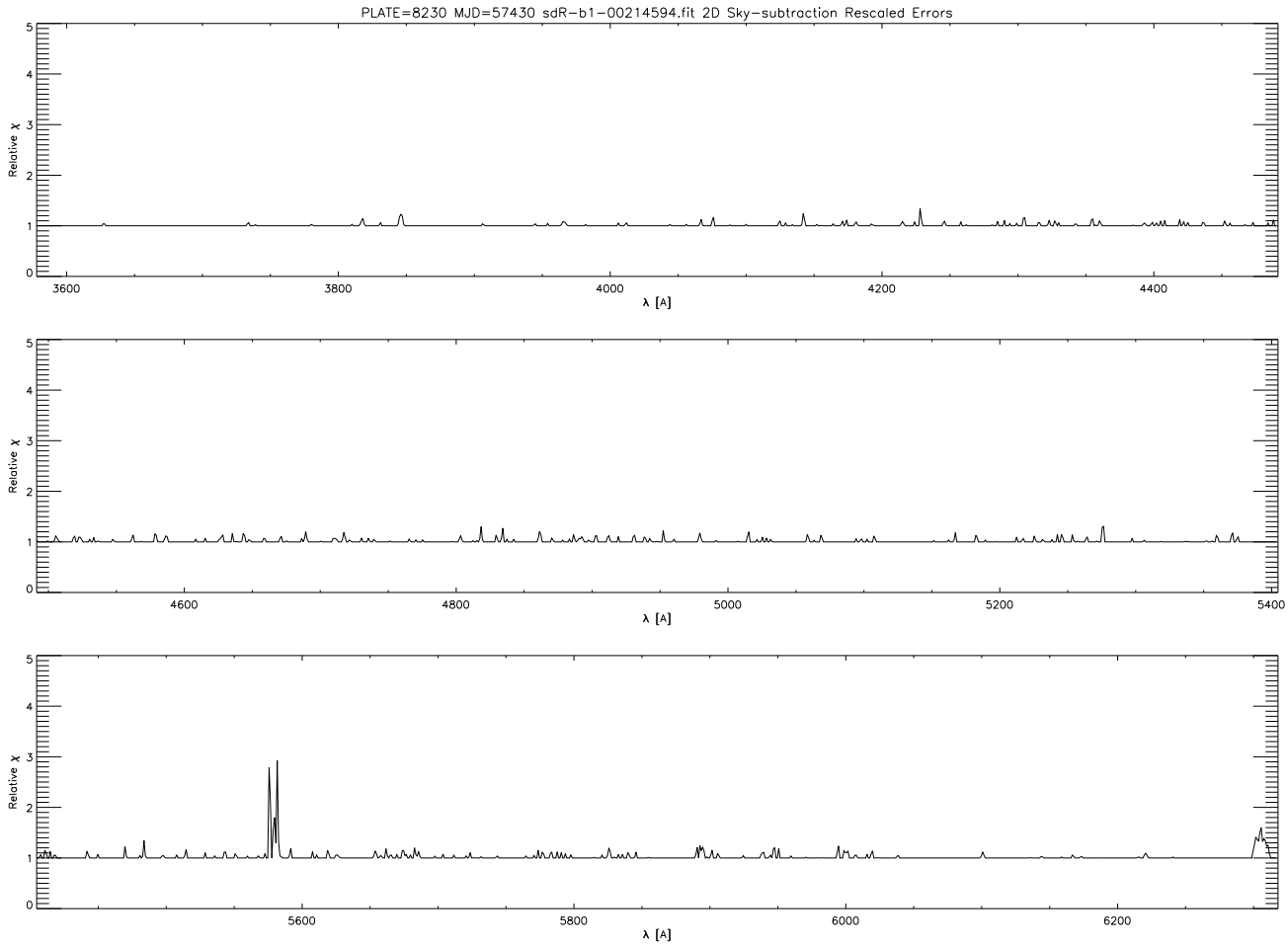


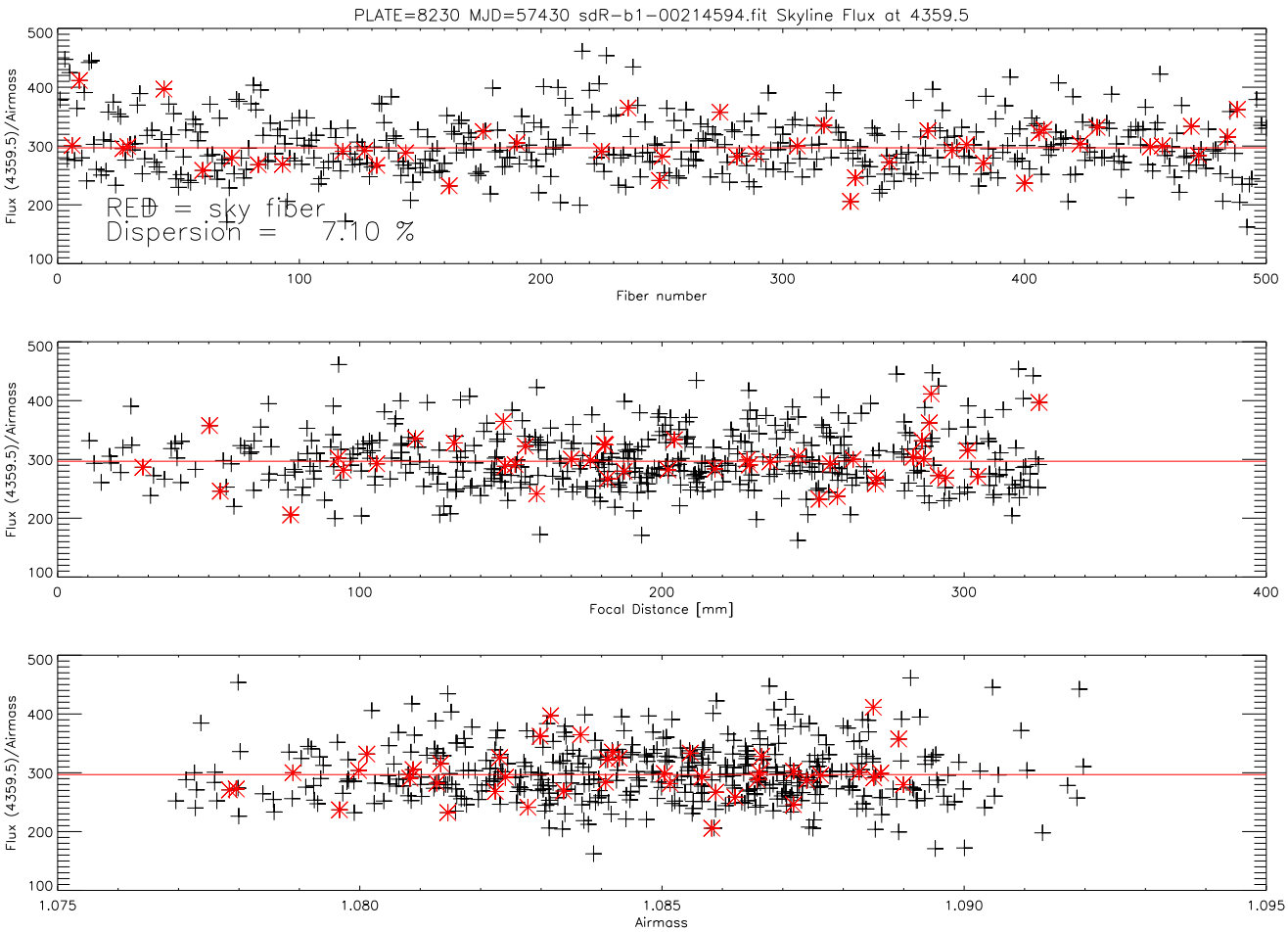

PLATE=8230 MJD=57430 sdR-b1-00214594.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

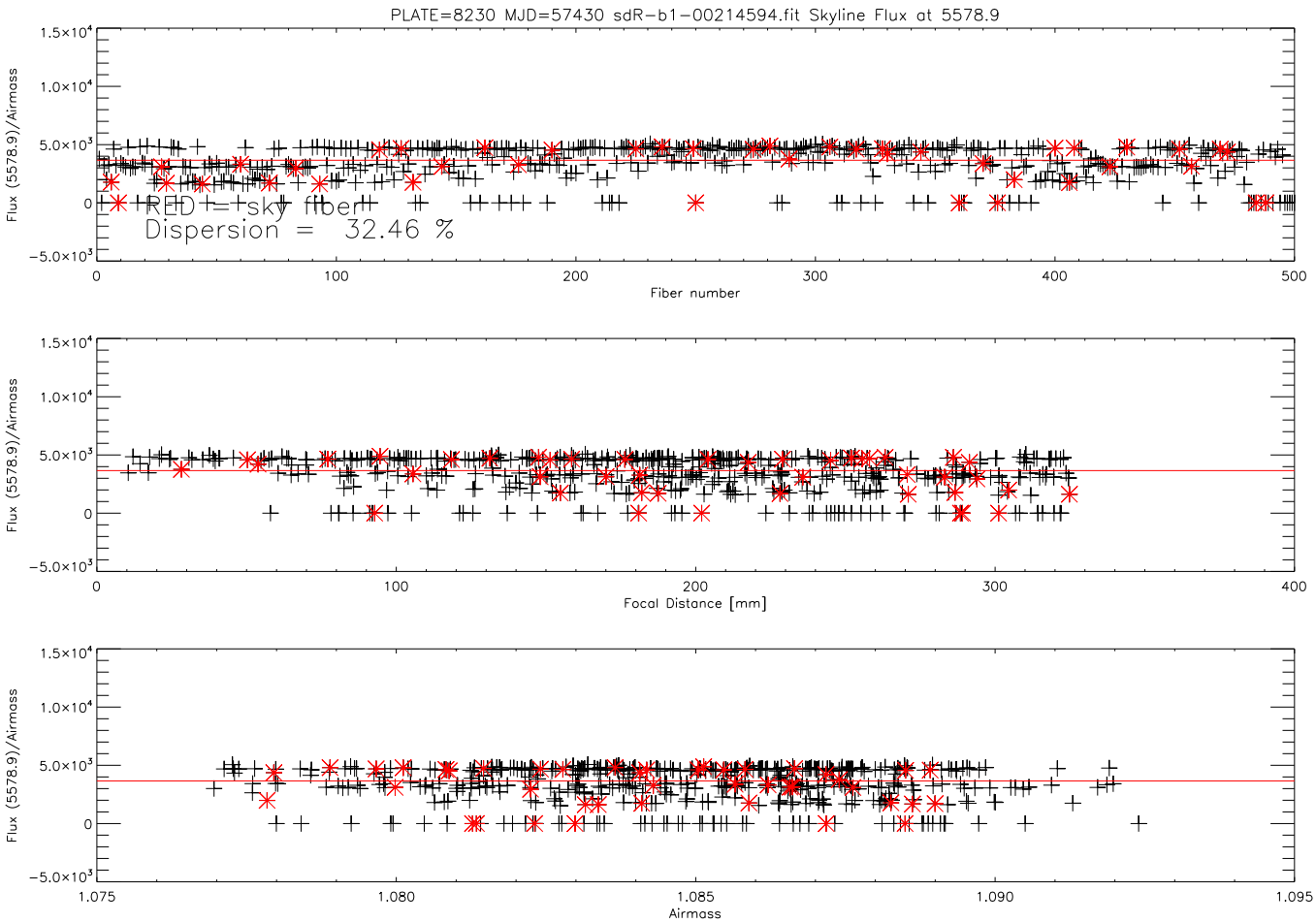

PLATE=8230 MJD=57430 sdR-b1-00214594.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

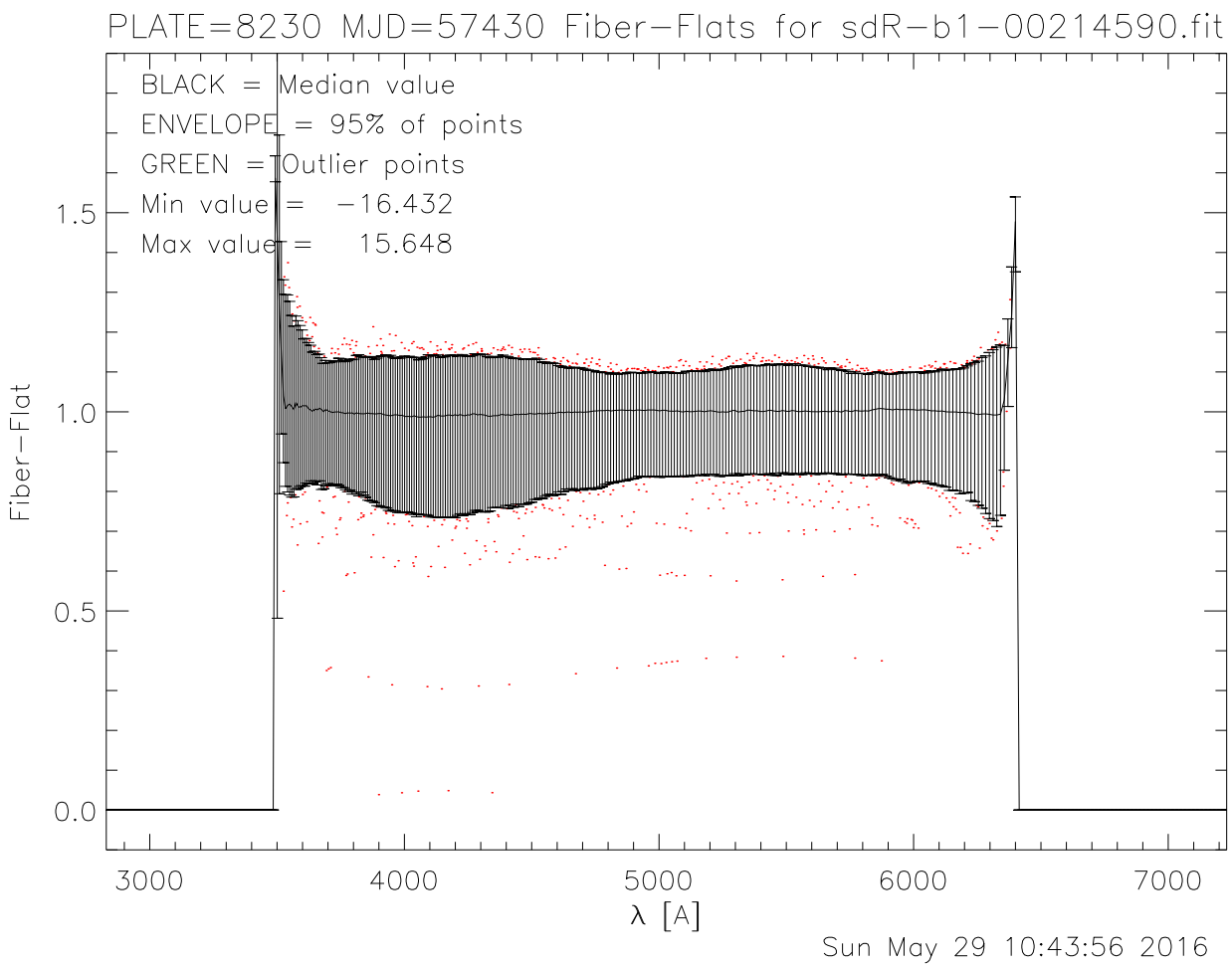

PLATE=8230 MJD=57430 sdR-b1-00214594.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
-150
-200
5570
5575
5580
5585
5590
λ [A]

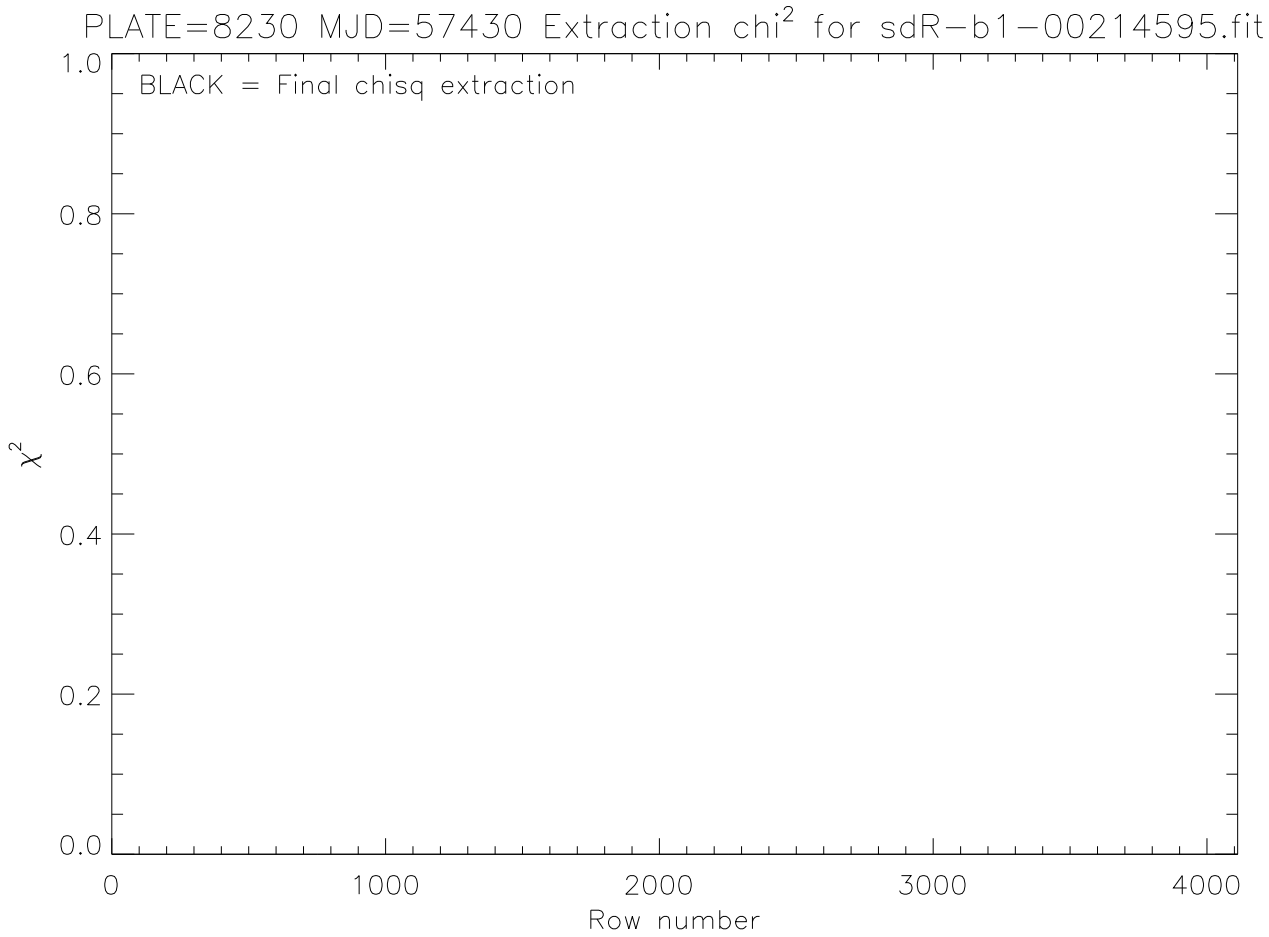
Number of sky fibers = 43

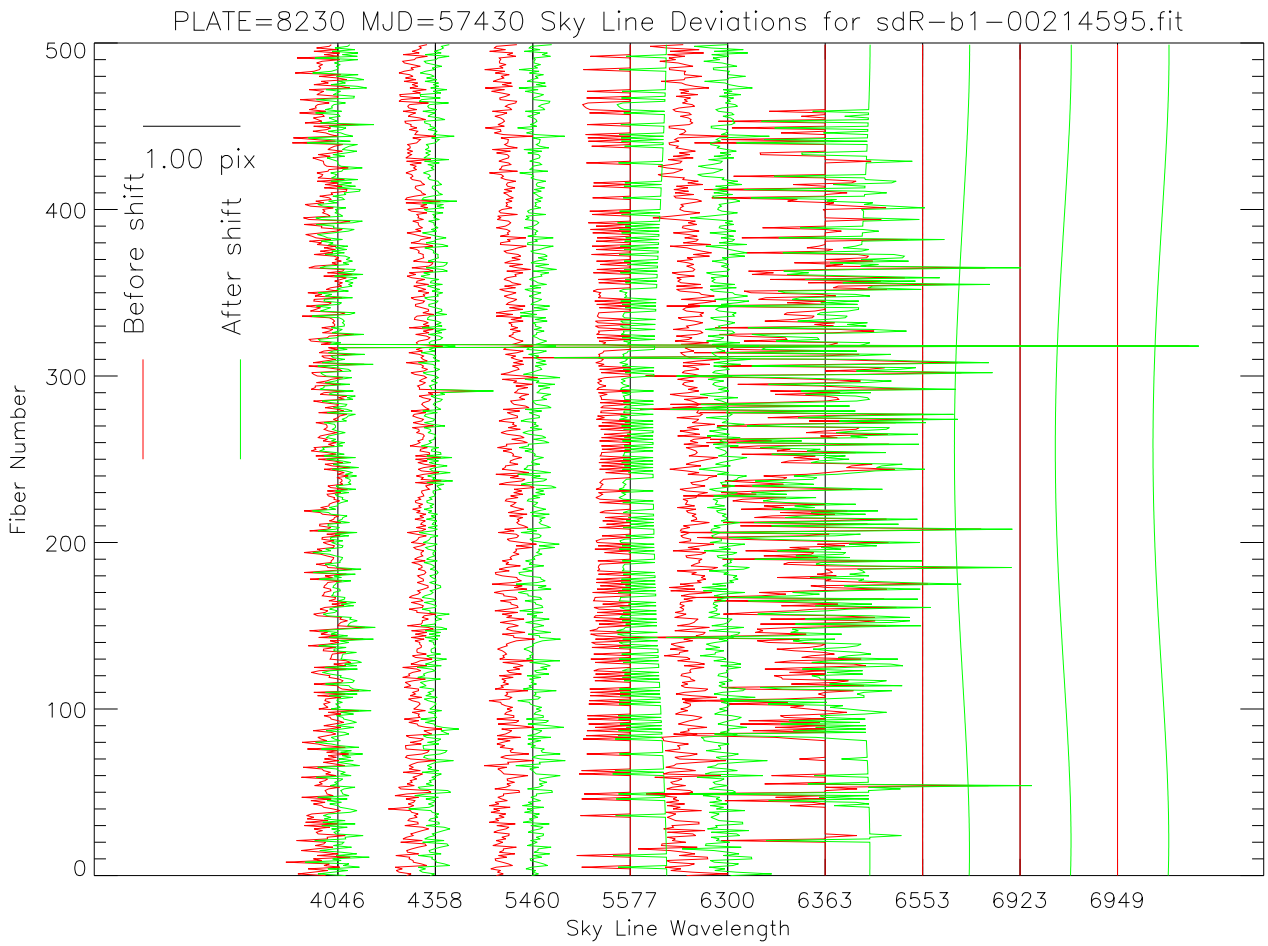


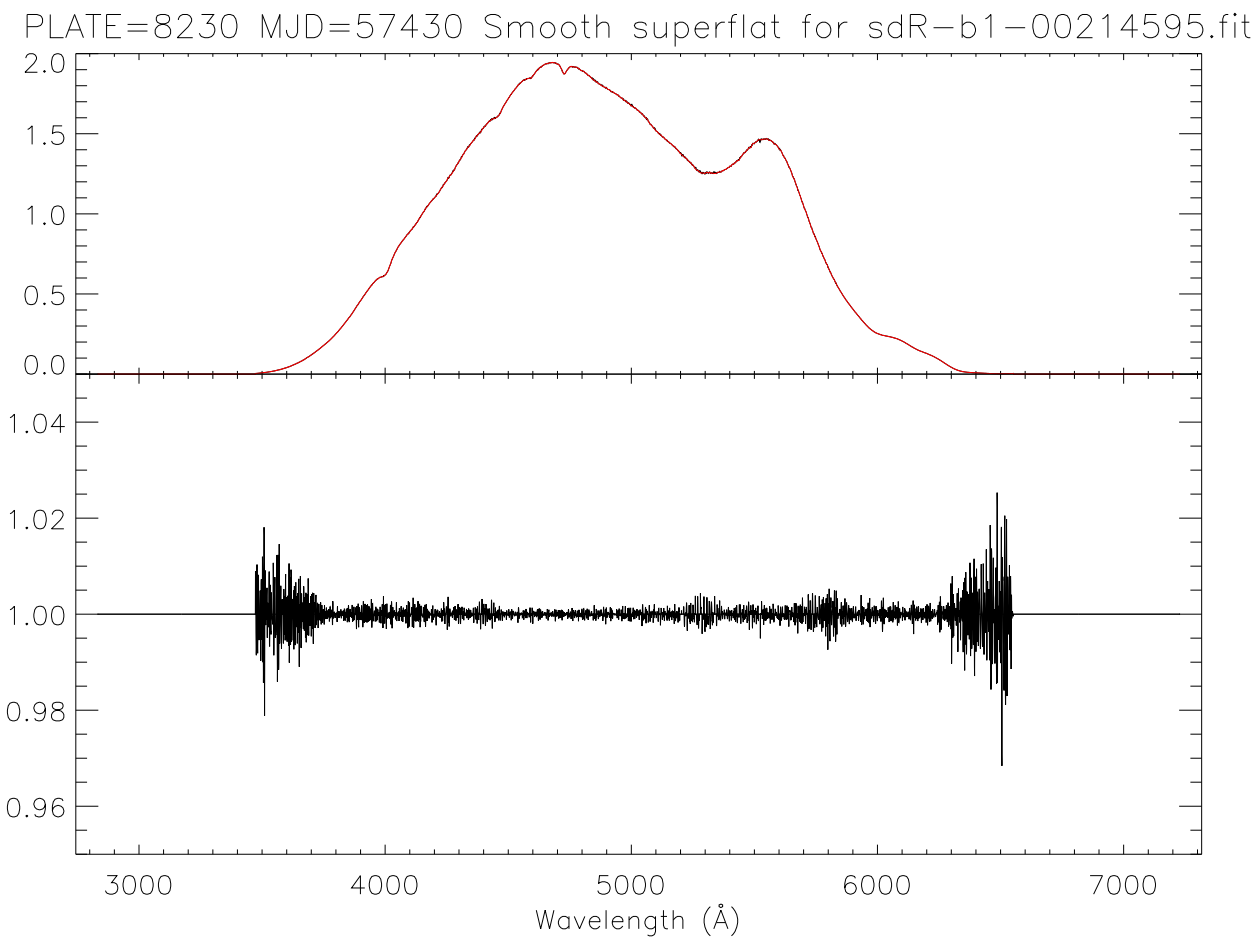

PLATE=8230 MJD=57430 sdR-b1-00214594.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 7.10 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

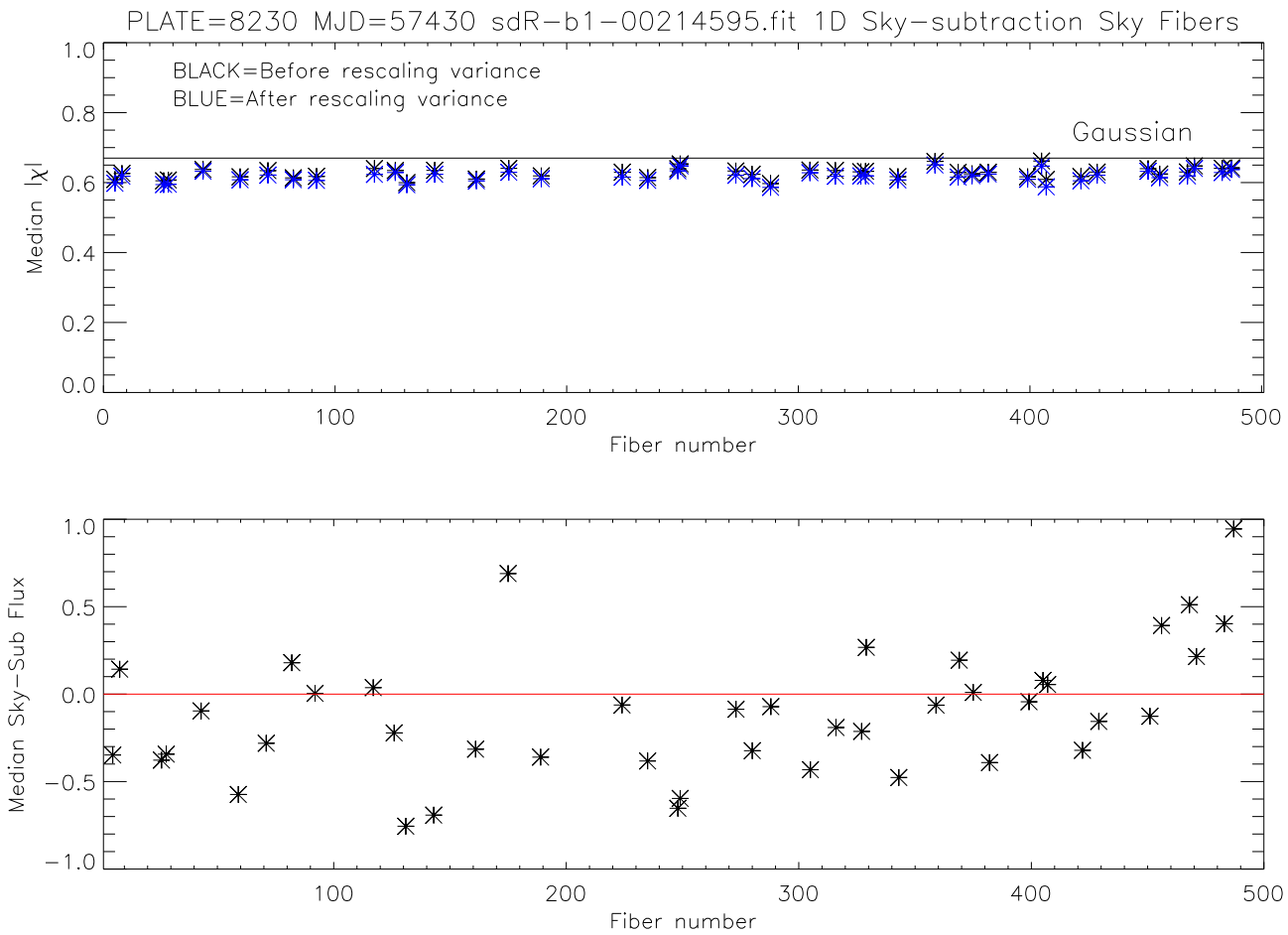

PLATE=8230 MJD=57430 sdR-b1-00214594.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED=sky fiber
Dispersion = 32.46 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

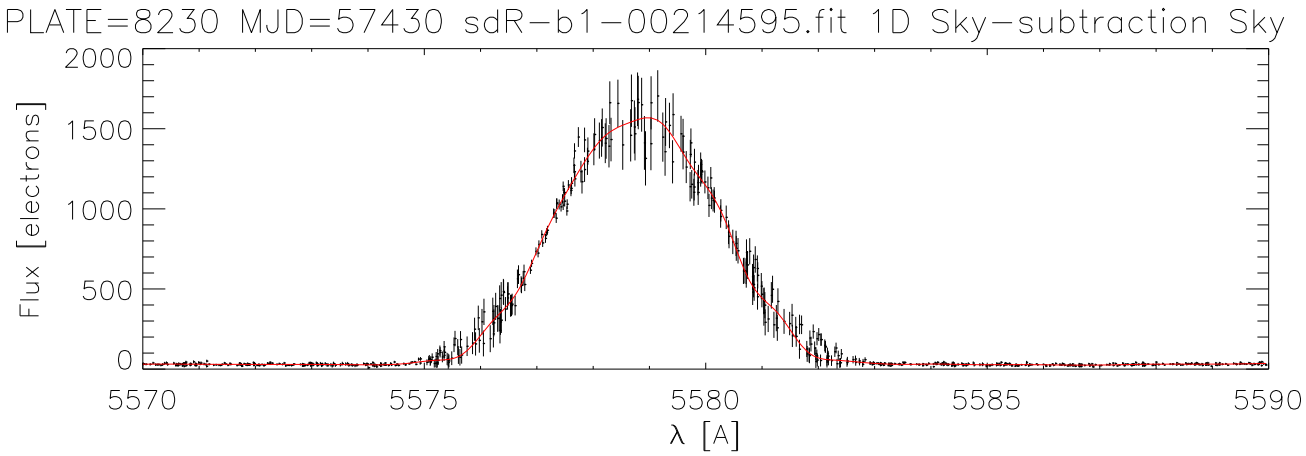

PLATE=8230 MJD=57430 Fiber-Flats for sdR-b1-00214590.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = -16.432
Max value = 15.648
Fiber-Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sun May 29 10:43:56 2016

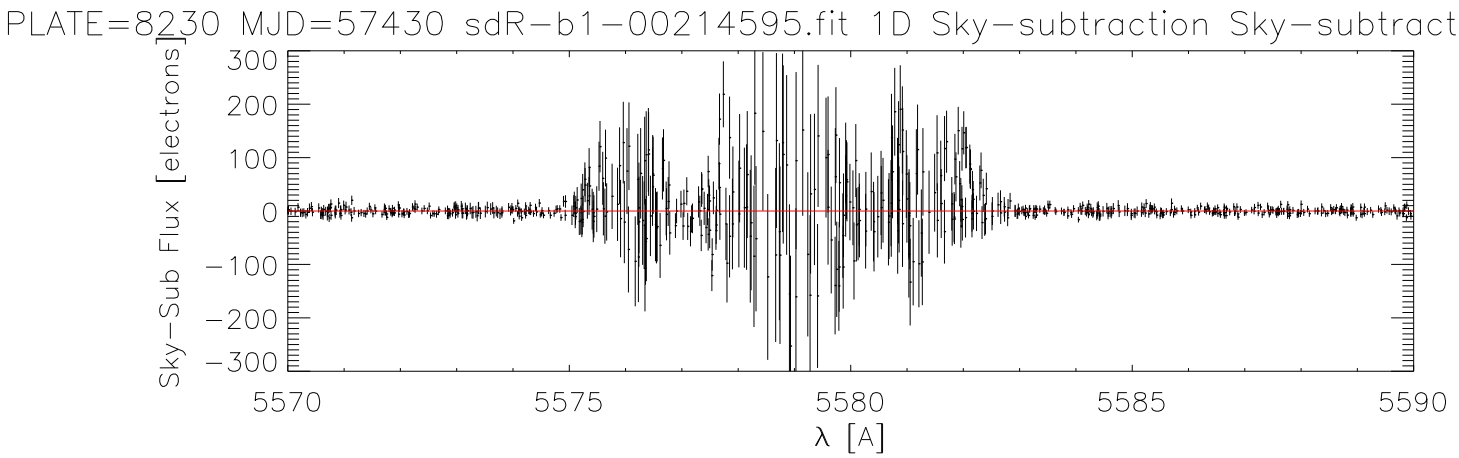

PLATE=8230 MJD=57430 Extraction chi^2 for sdR−b1−00214595.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=8230 MJD=57430 Sky Line Deviations for sdR-b1-00214595.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

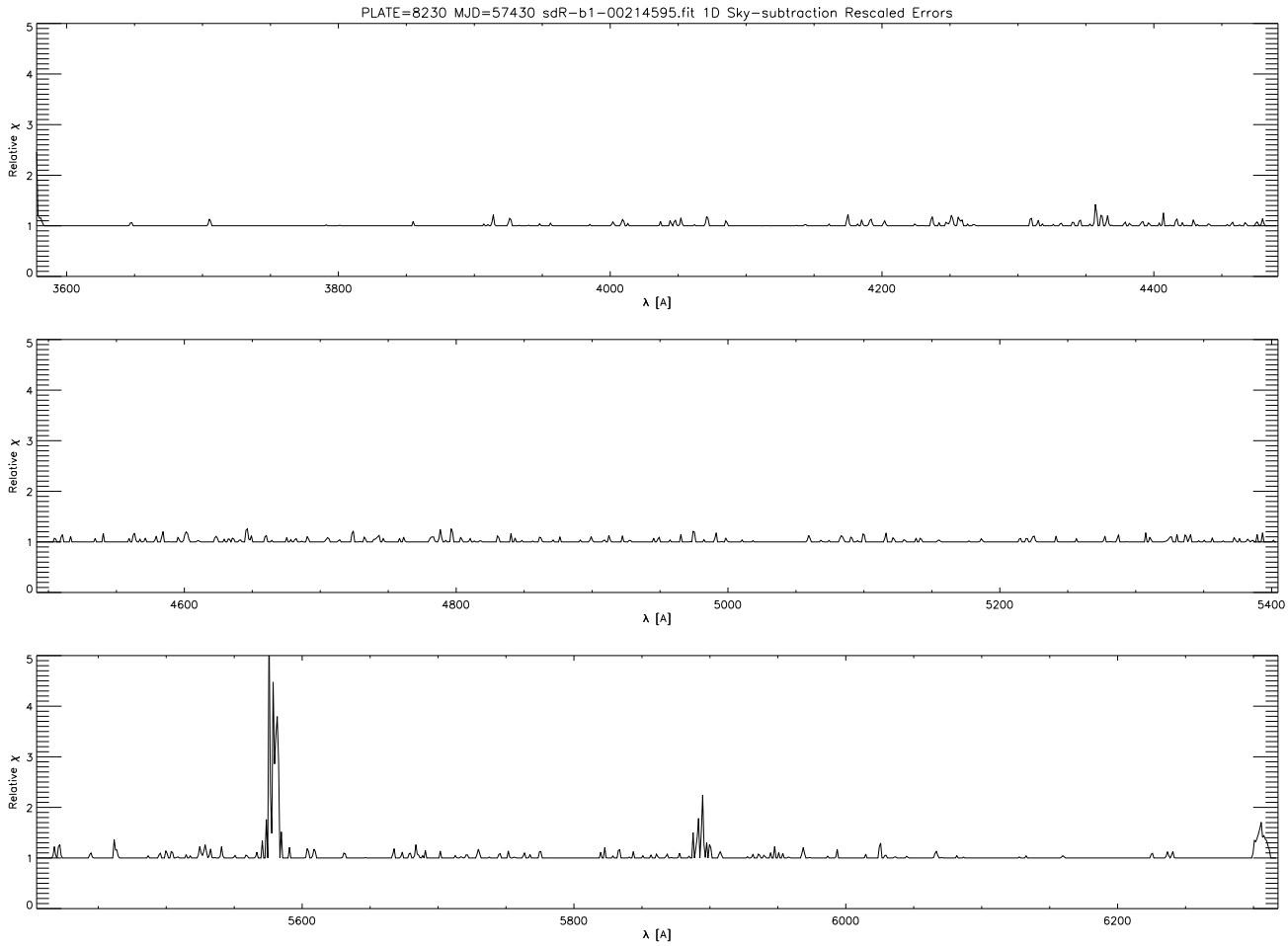

PLATE=8230 MJD=57430 Smooth superflat for sdR-b1-00214595.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

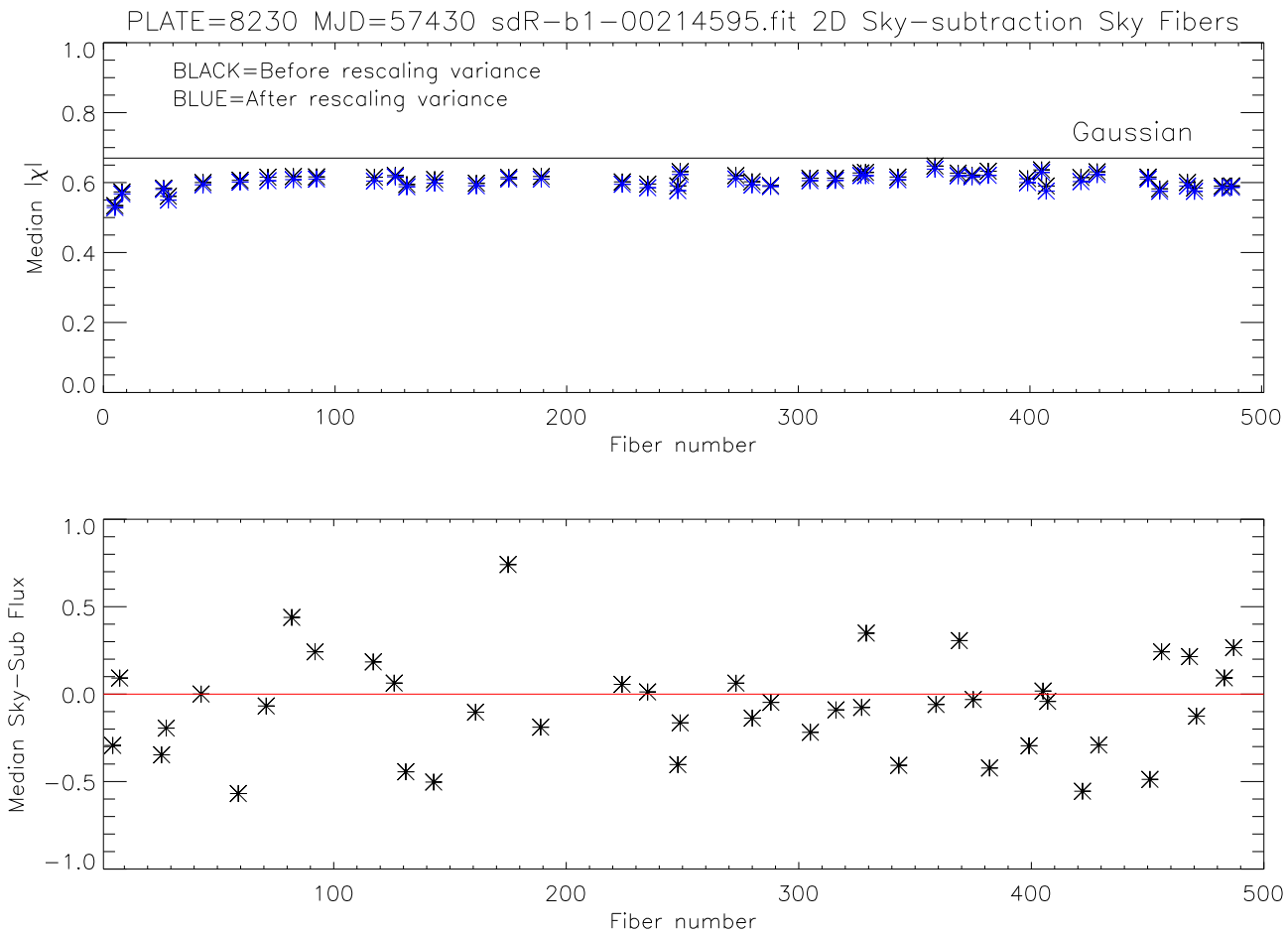

PLATE=8230 MJD=57430 sdR-b1-00214595.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

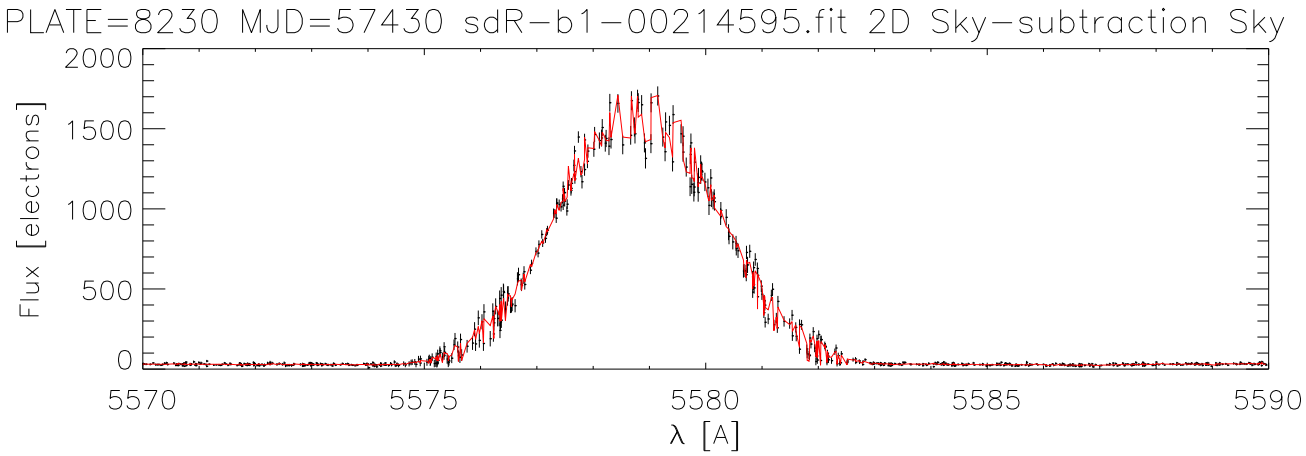

PLATE=8230 MJD=57430 sdR-b1-00214595.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

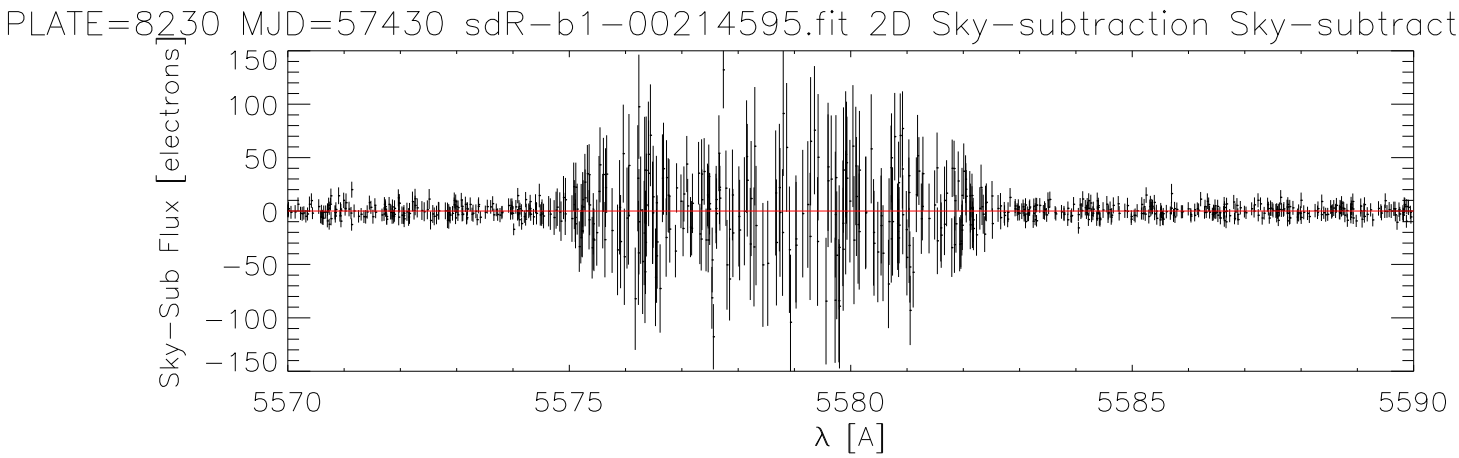

PLATE=8230 MJD=57430 sdR-b1-00214595.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 43

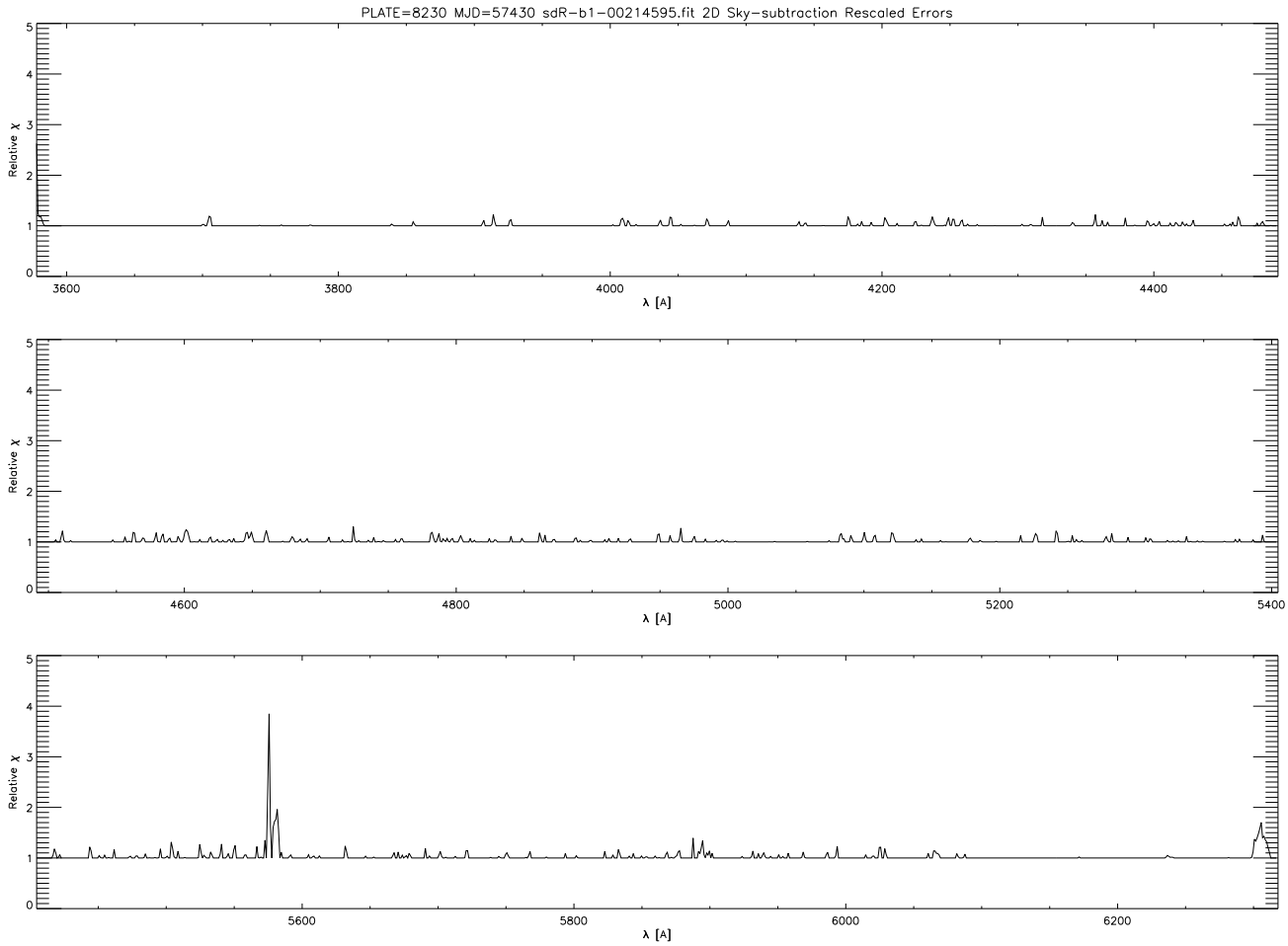


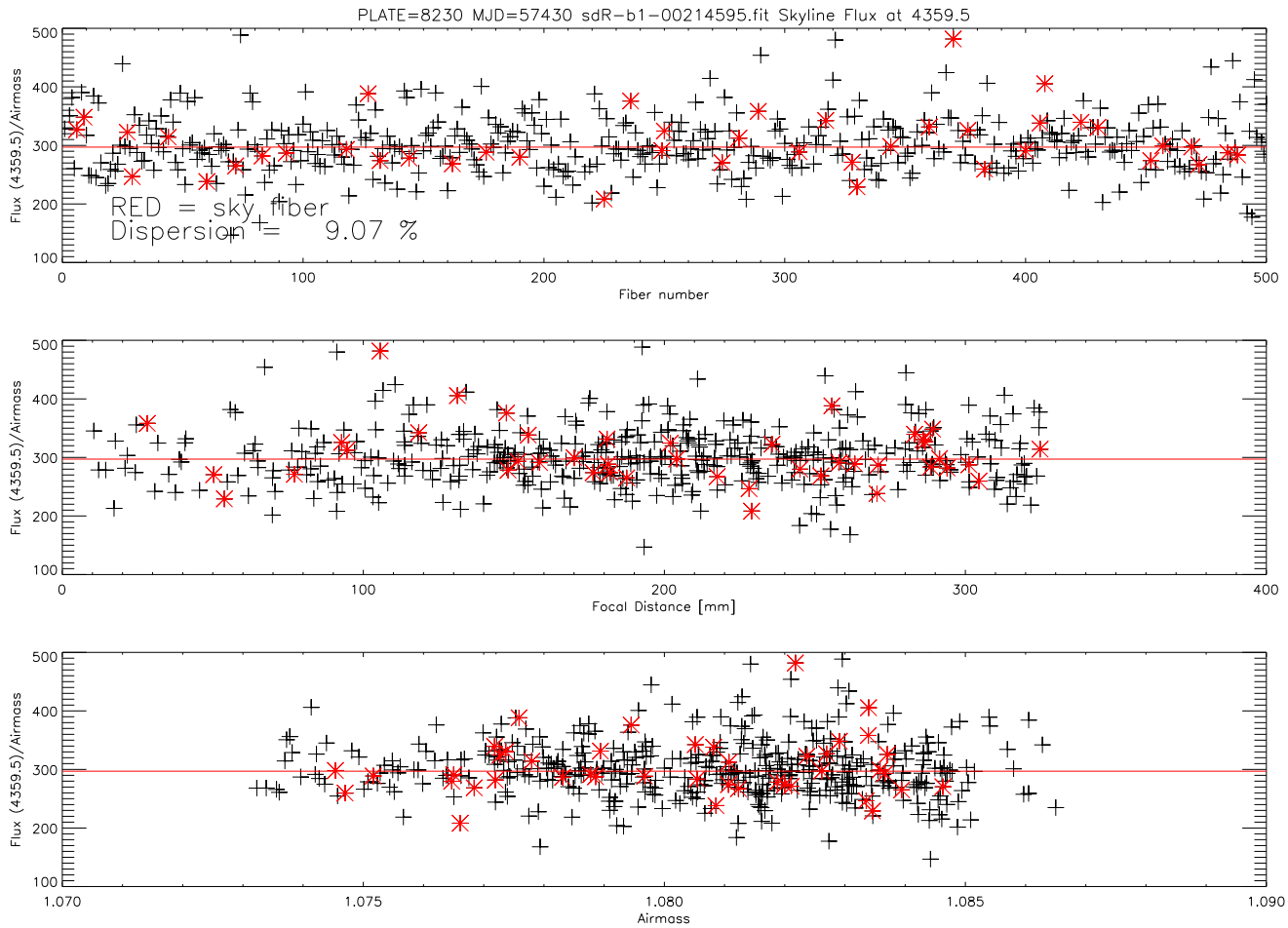

PLATE=8230 MJD=57430 sdR-b1-00214595.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

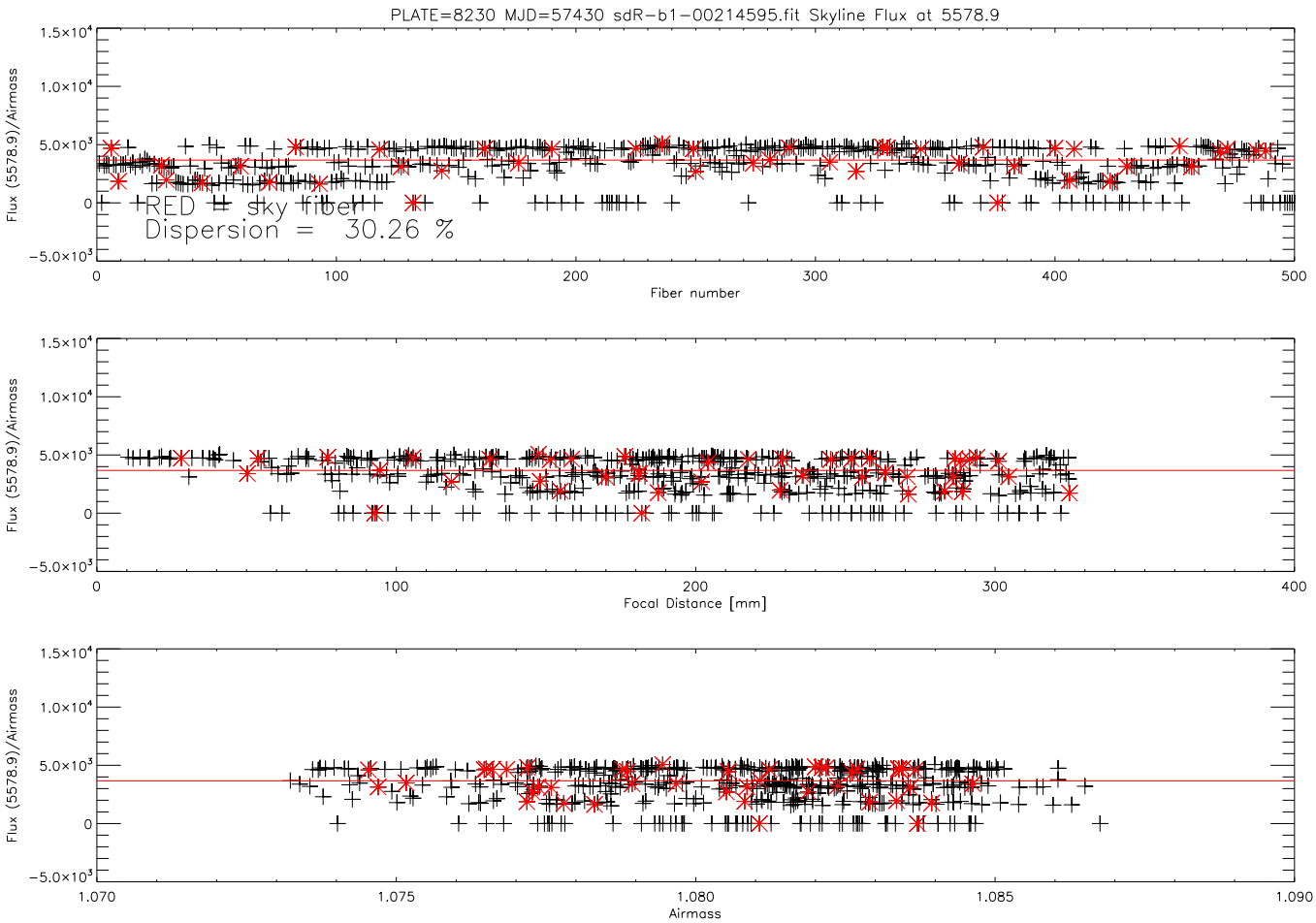

PLATE=8230 MJD=57430 sdR-b1-00214595.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

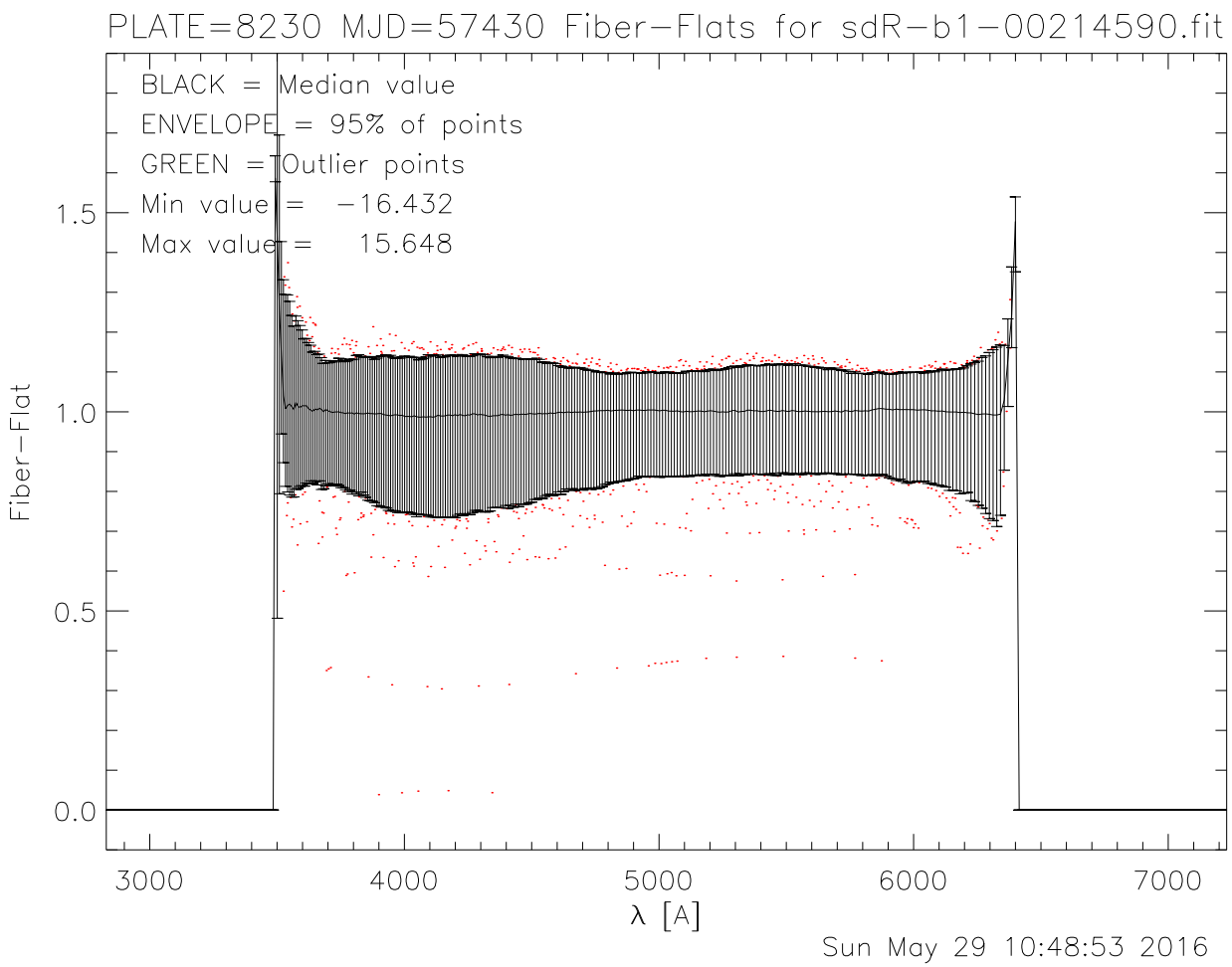

PLATE=8230 MJD=57430 sdR-b1-00214595.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
5570
5575
5580
5585
5590
λ [A]

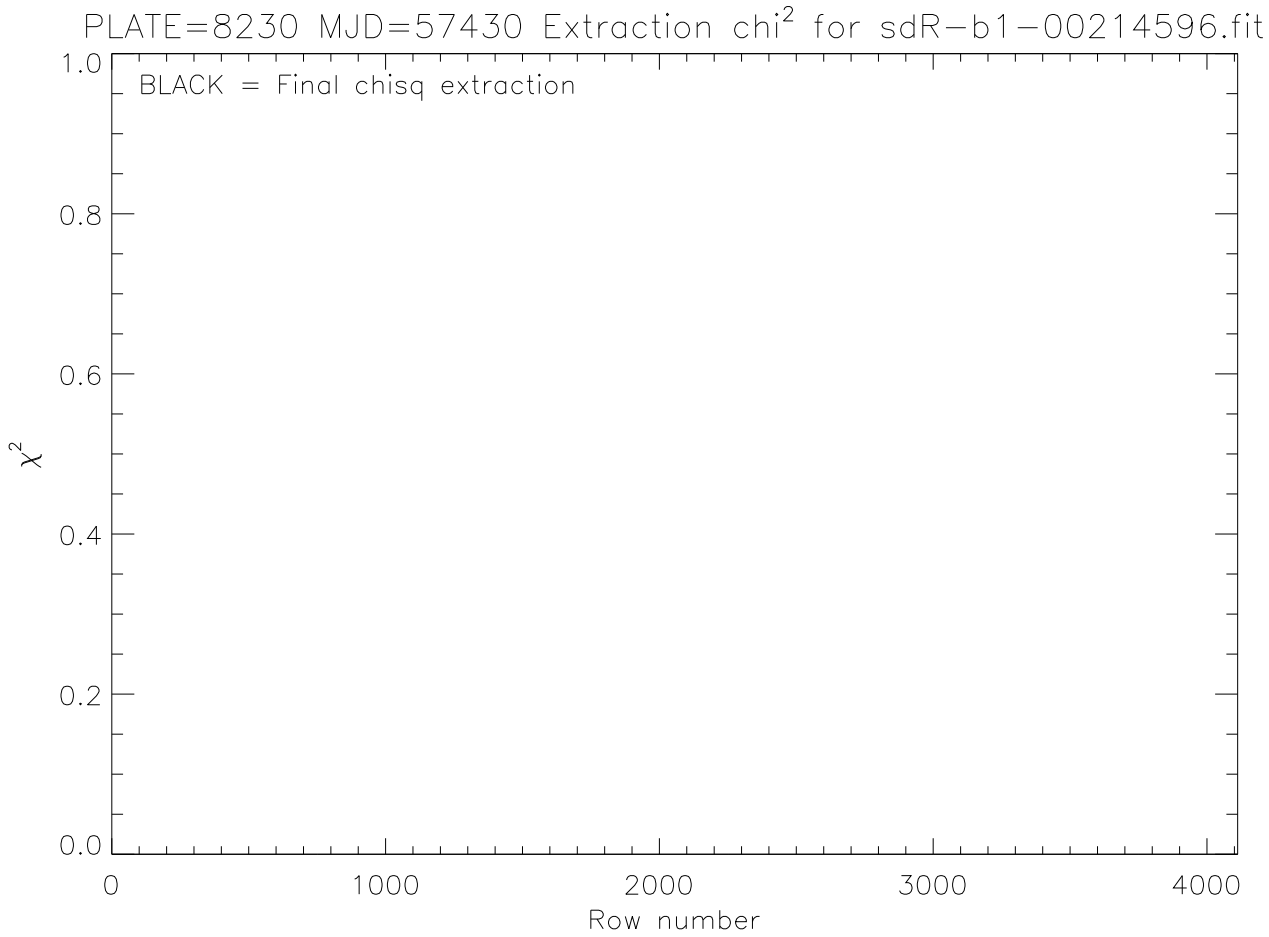
Number of sky fibers = 43

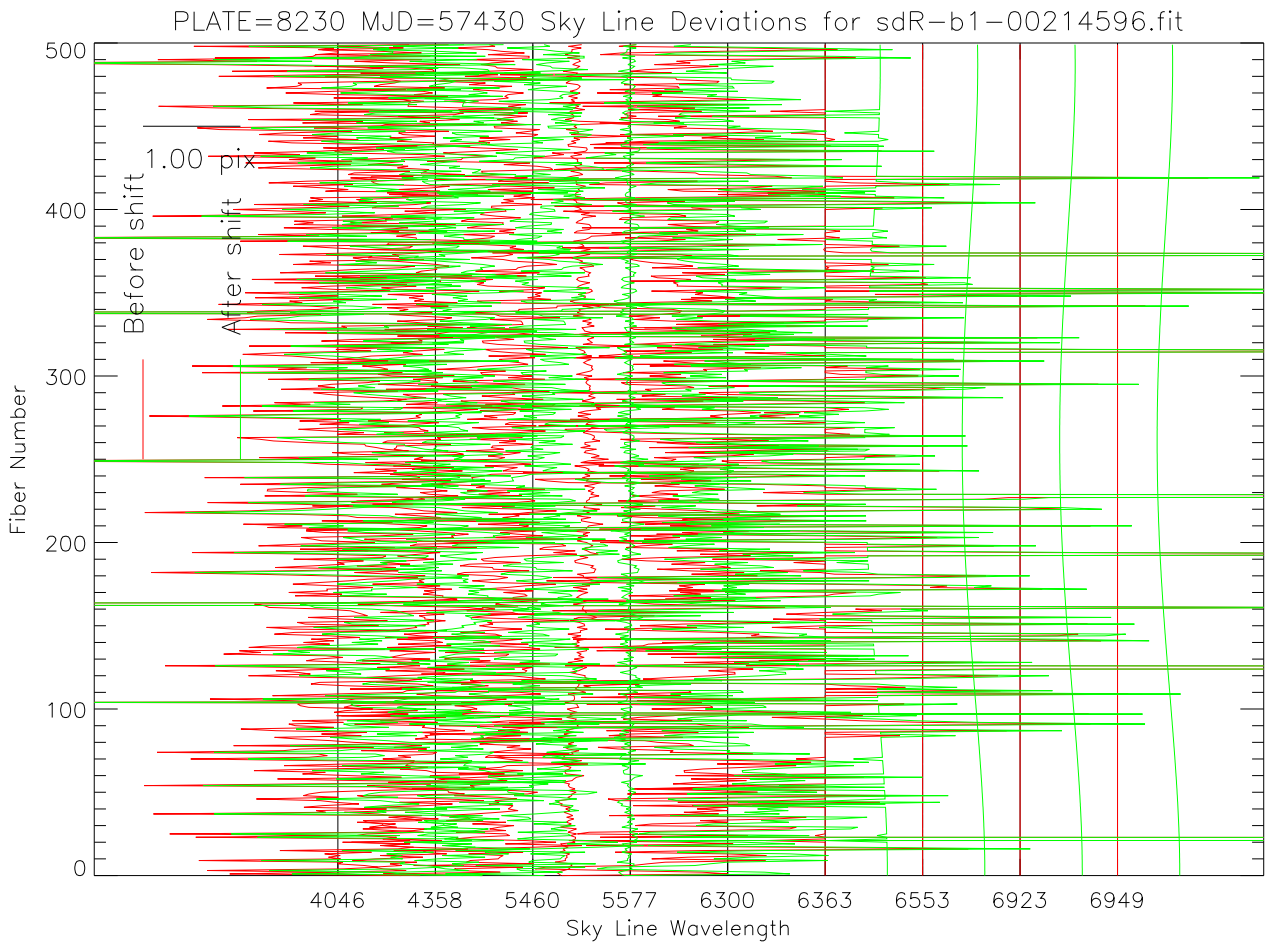


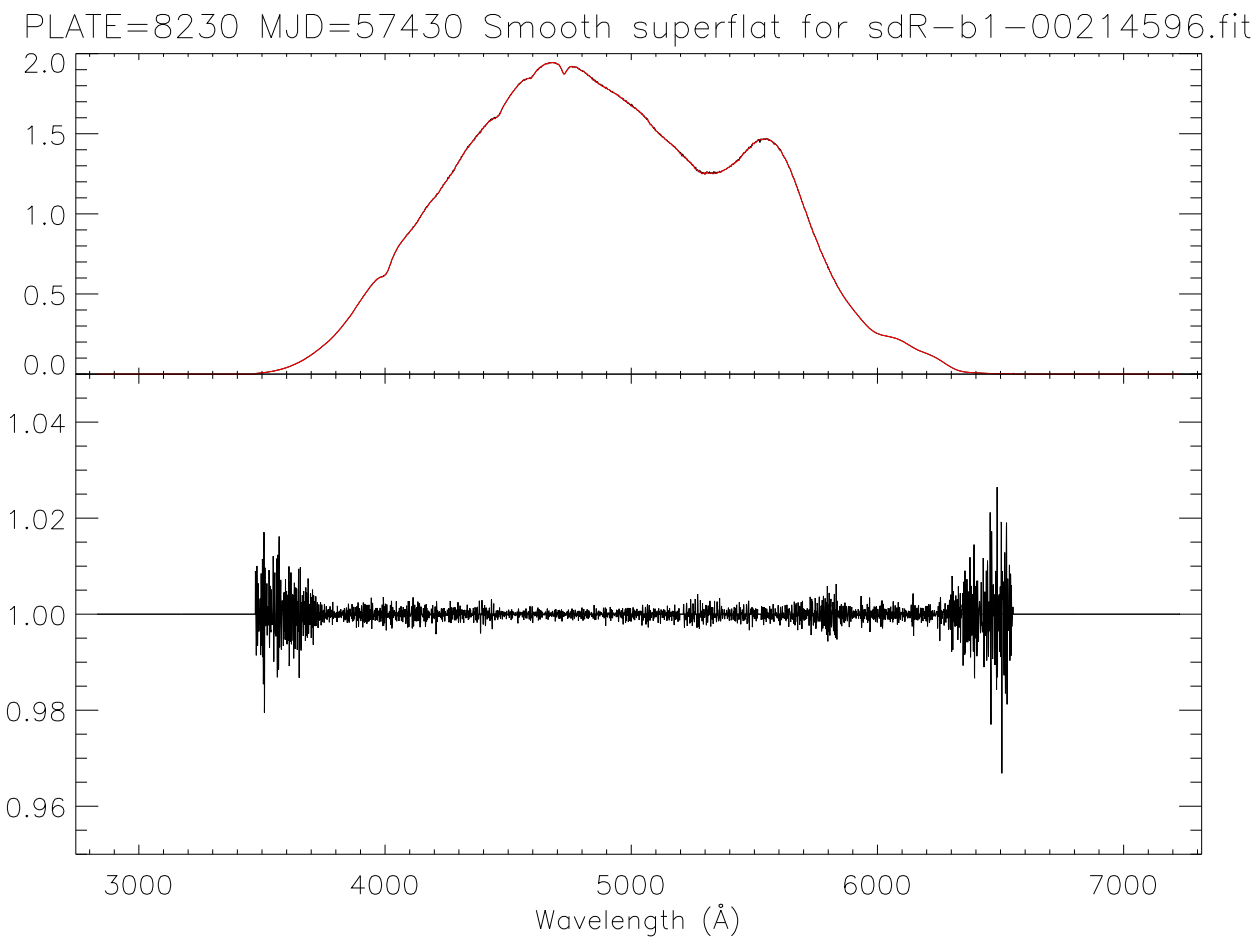

PLATE=8230 MJD=57430 sdR-b1-00214595.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 9.07 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

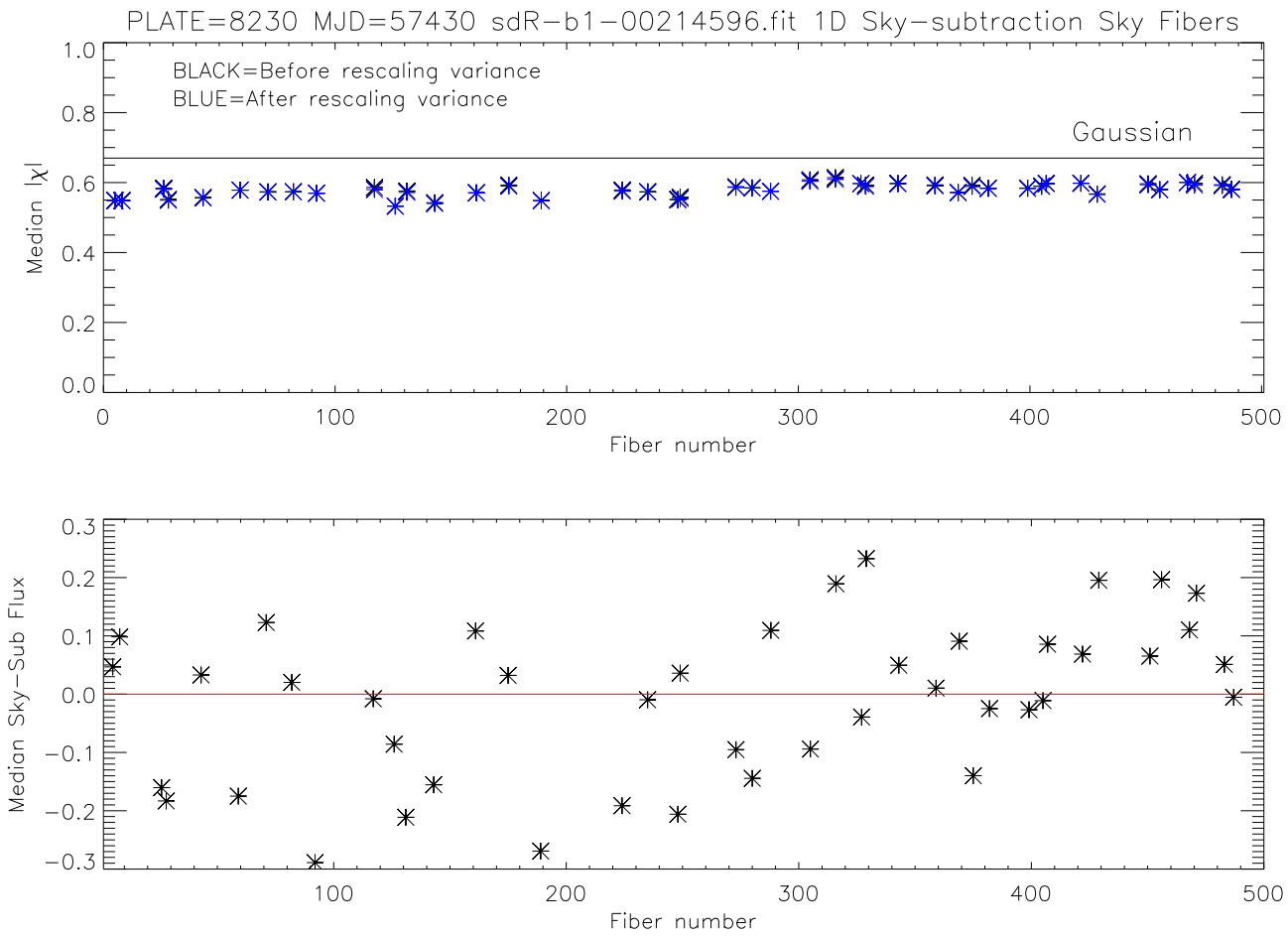

PLATE=8230 MJD=57430 sdR-b1-00214595.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
1.5×10⁴
1.0×10⁴
5.0×10³
0
−5.0×10³
RED = sky fiber
Dispersion = 30.26 %
0
100
200
300
400
500
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
1.070
1.075
1.080
1.085
1.090
Airmass

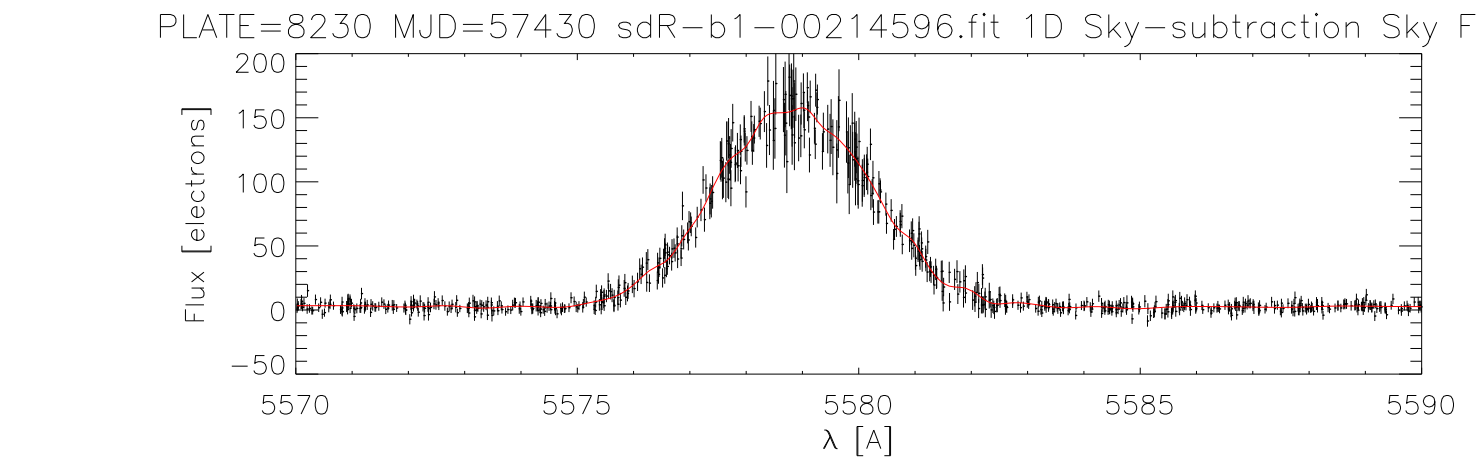

PLATE=8230 MJD=57430 Fiber-Flats for sdR-b1-00214590.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = -16.432
Max value = 15.648
Fiber-Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sun May 29 10:48:53 2016

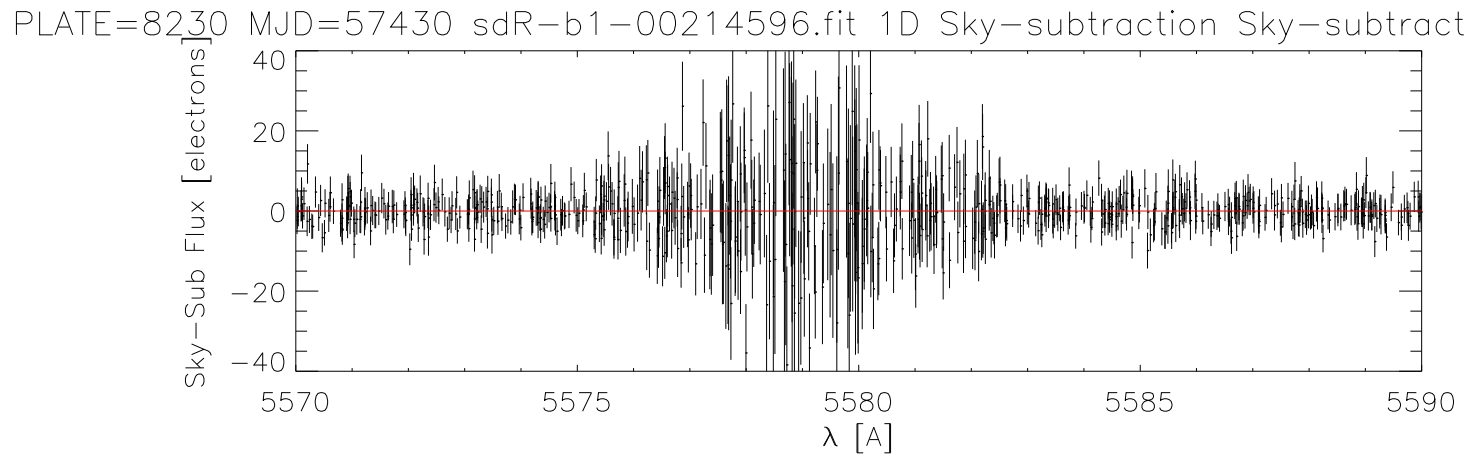

PLATE=8230 MJD=57430 Extraction chi^2 for sdR−b1−00214596.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=8230 MJD=57430 Sky Line Deviations for sdR-b1-00214596.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

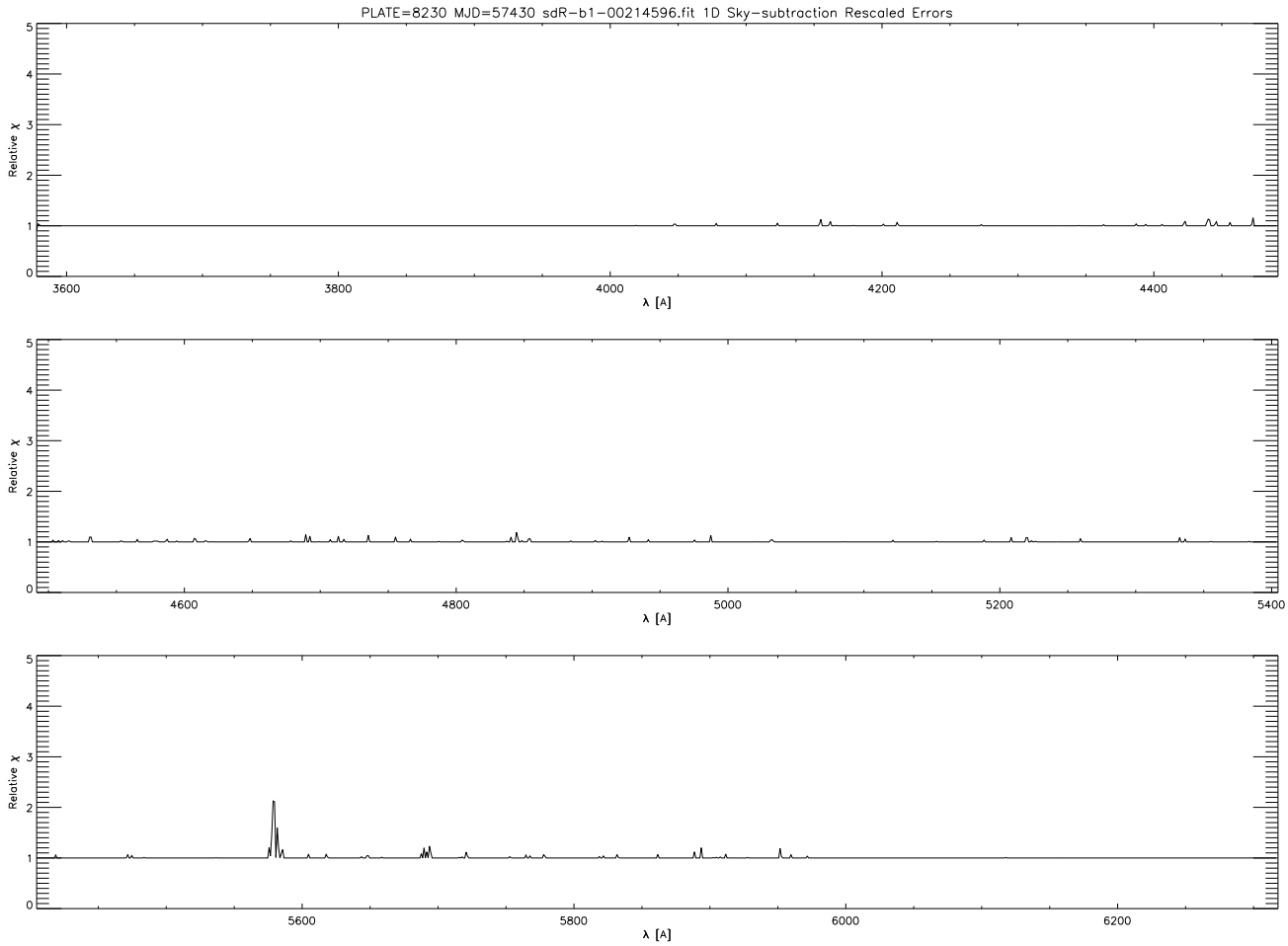

PLATE=8230 MJD=57430 Smooth superflat for sdR-b1-00214596.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

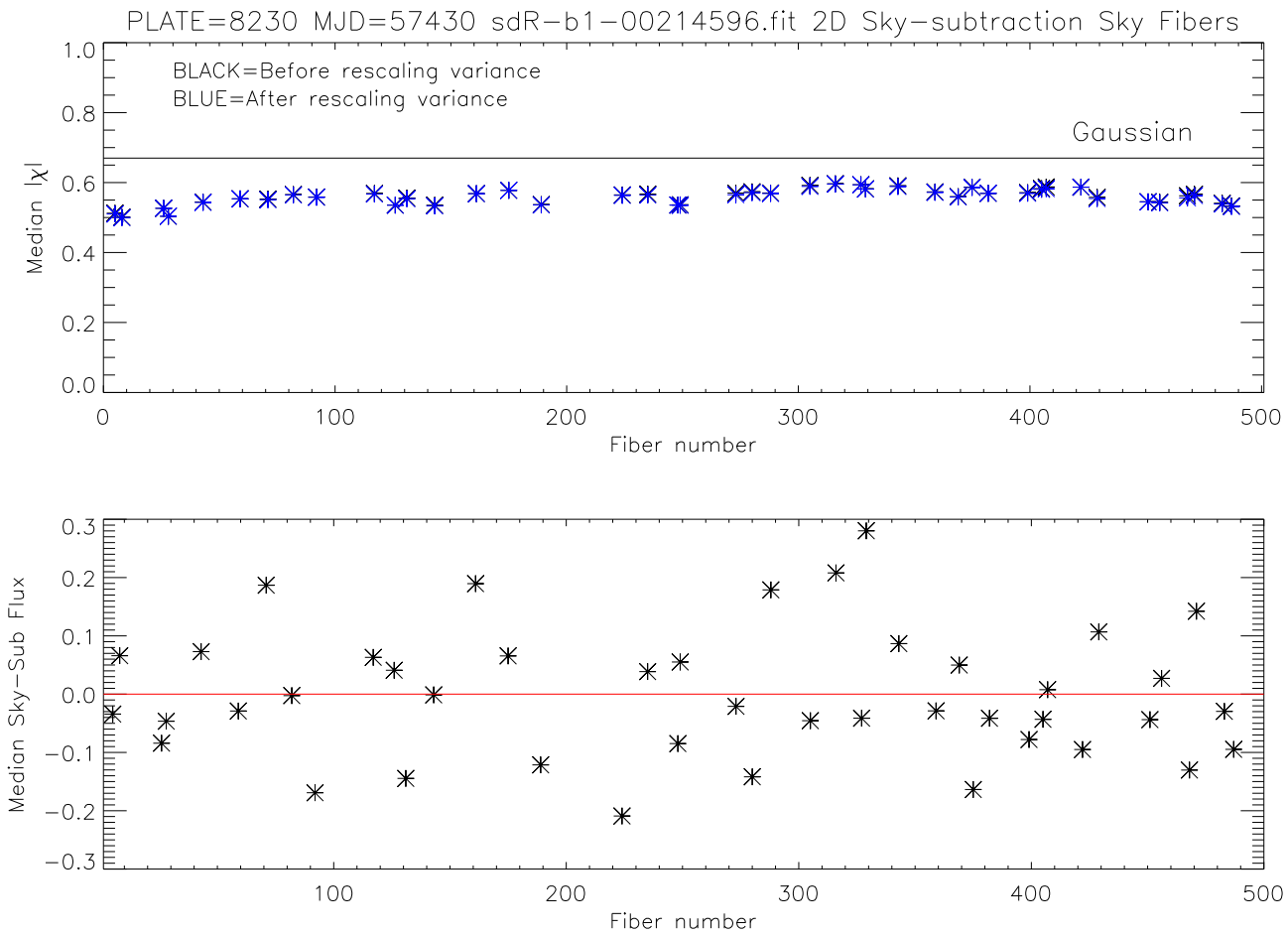

PLATE=8230 MJD=57430 sdR-b1-00214596.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

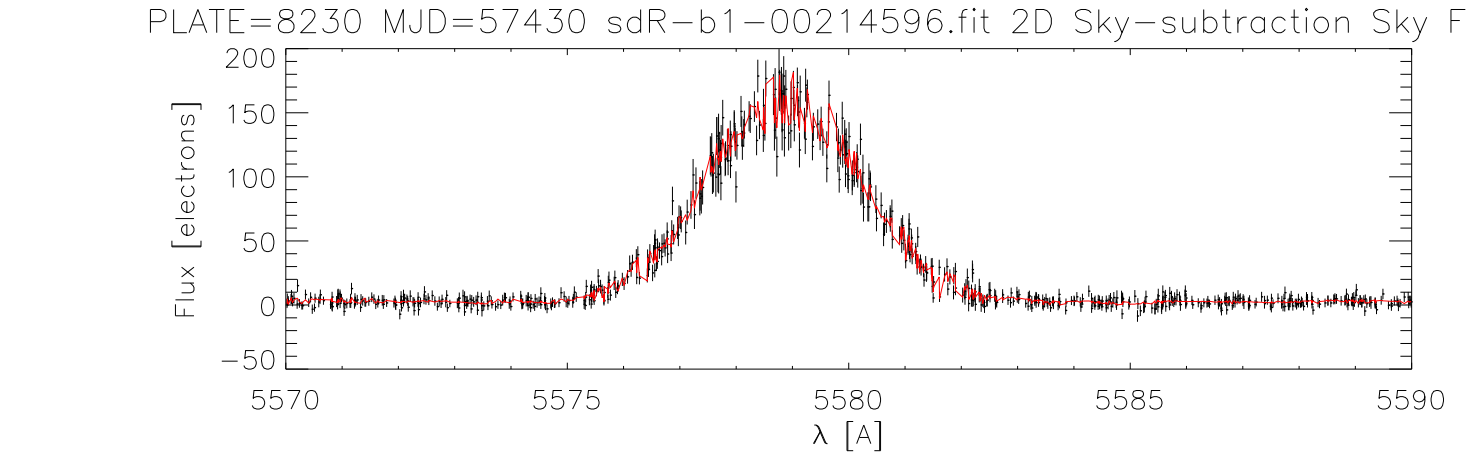

PLATE=8230 MJD=57430 sdR-b1-00214596.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
200
150
100
50
0
−50
5570
5575
5580
5585
5590
λ [A]

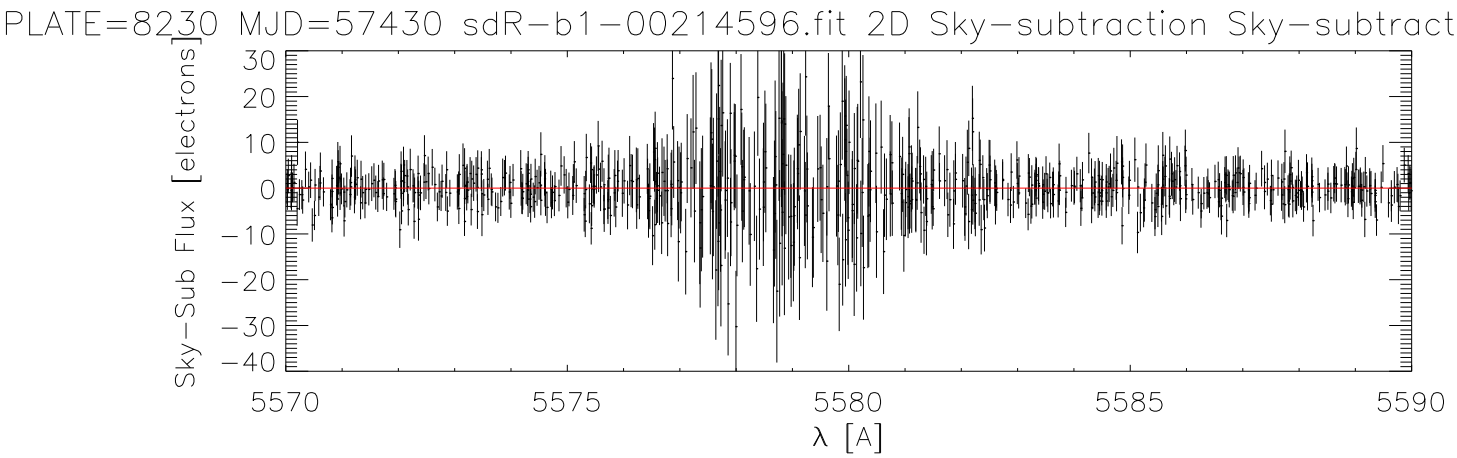

PLATE=8230 MJD=57430 sdR-b1-00214596.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
40
20
0
−20
−40
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 43

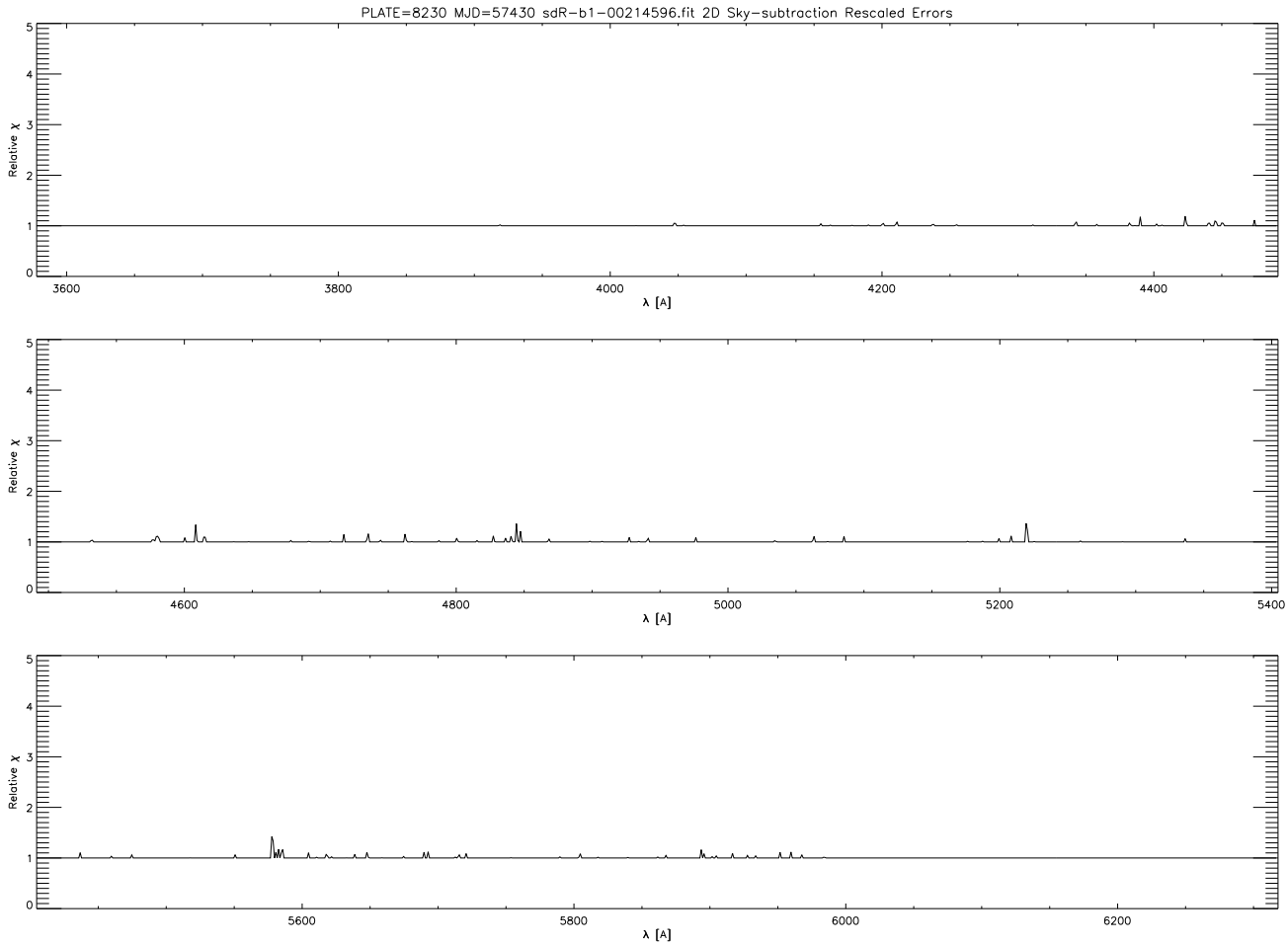


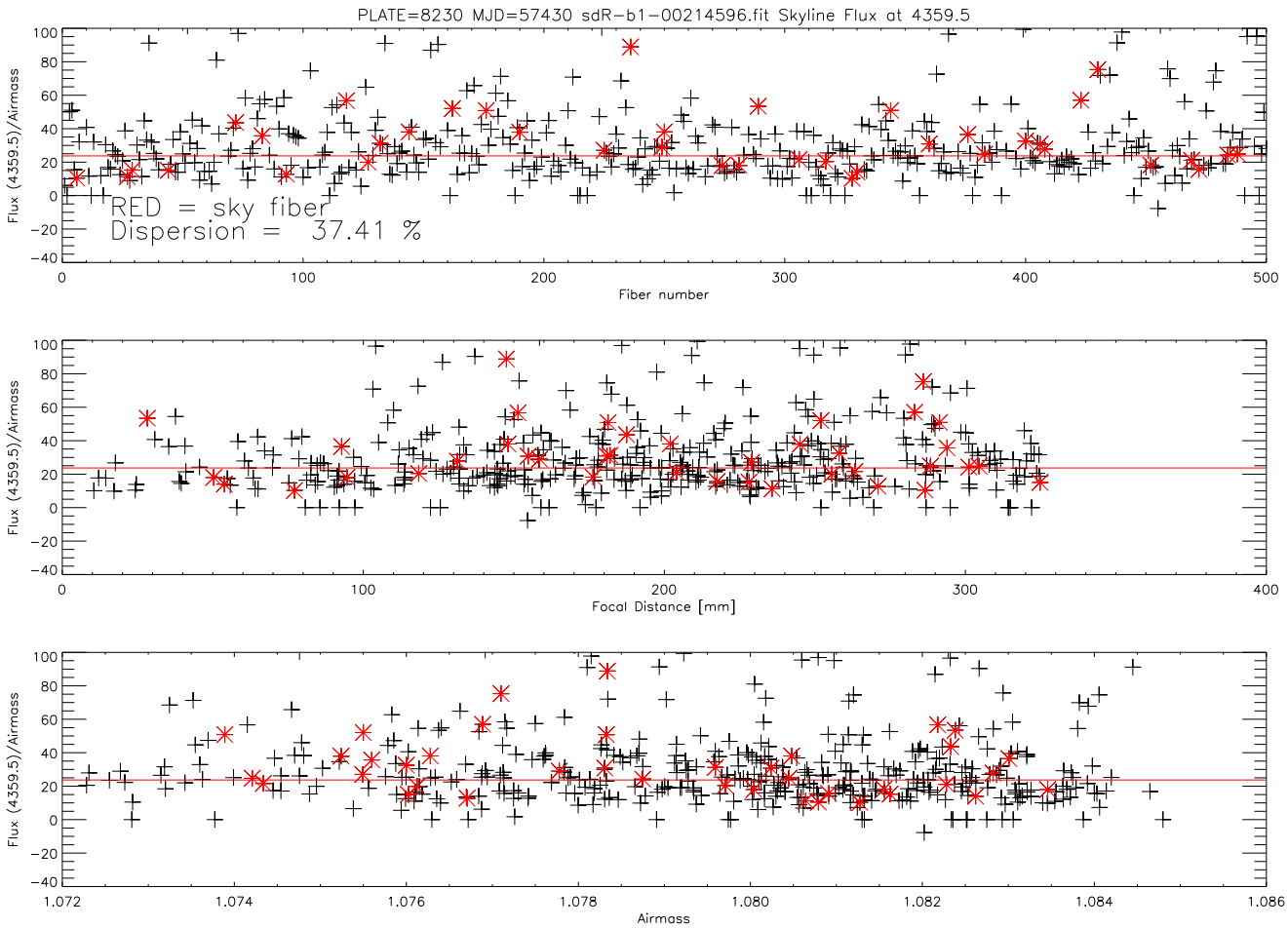

PLATE=8230 MJD=57430 sdR-b1-00214596.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

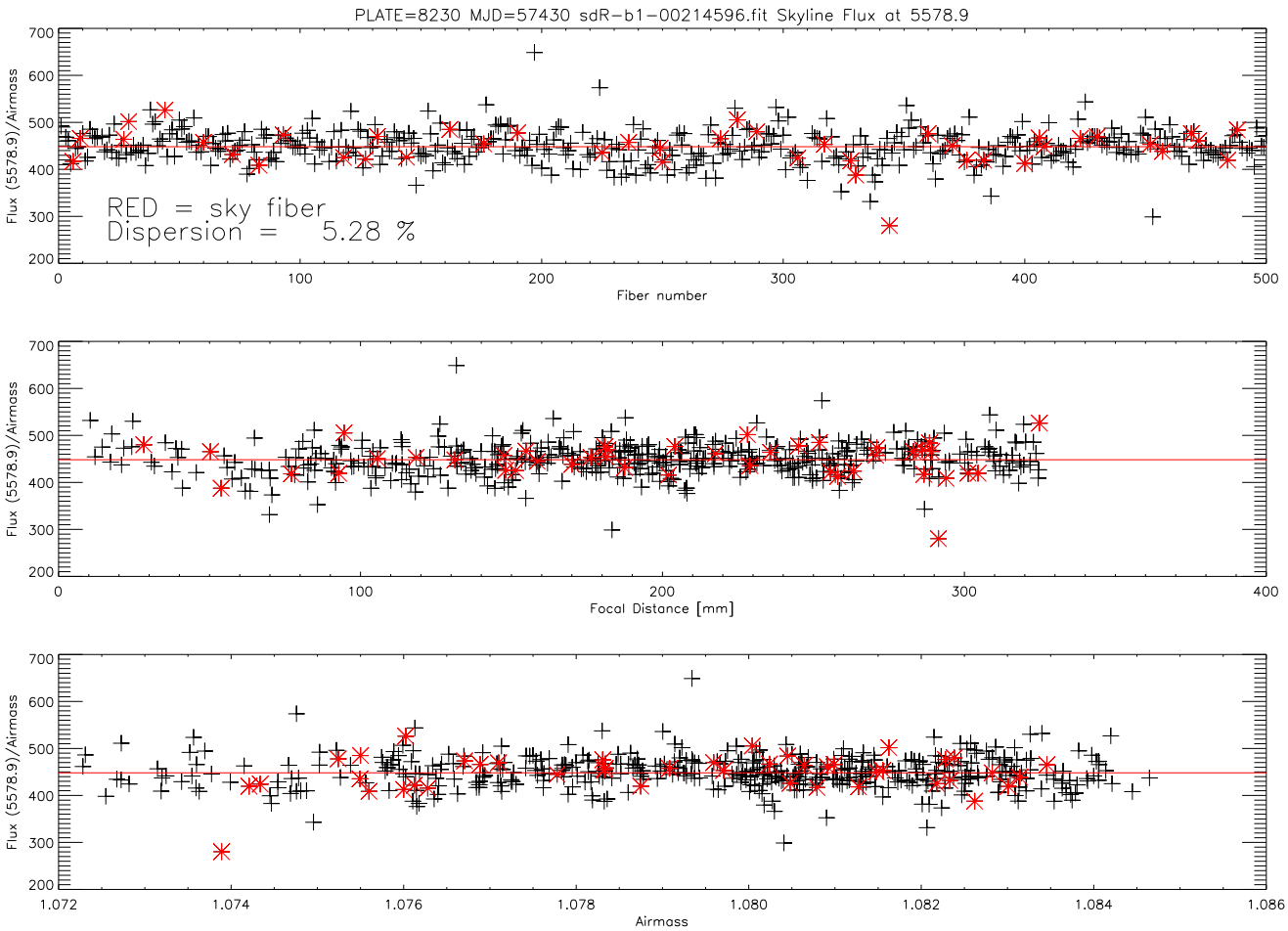

PLATE=8230 MJD=57430 sdR-b1-00214596.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
200
150
100
50
0
−50
5570
5575
5580
5585
5590
λ [A]


PLATE=8230 MJD=57430 sdR-b1-00214596.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
30
20
10
0
−10
−20
−30
−40
5570
5575
5580
5585
5590
λ [A]

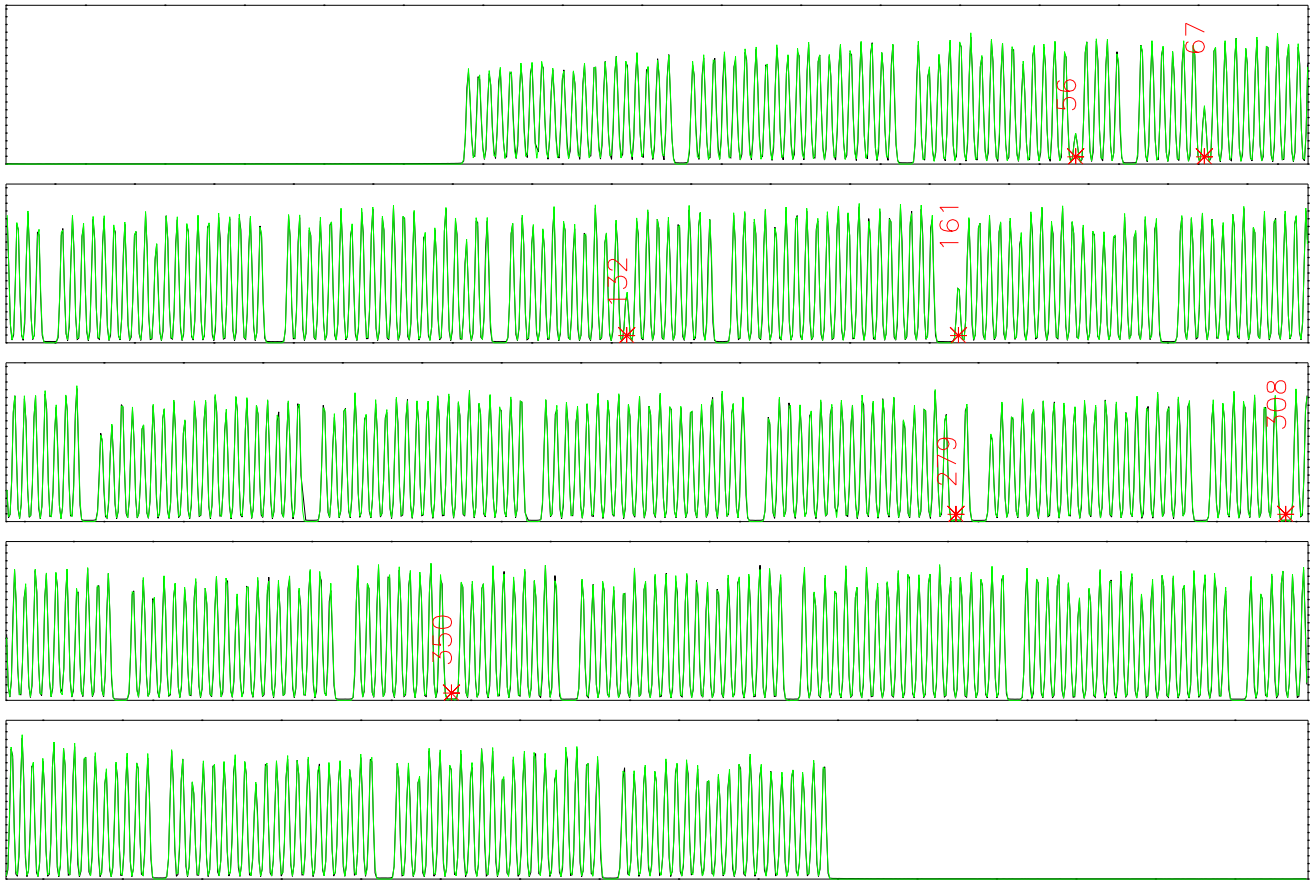
Number of sky fibers = 43

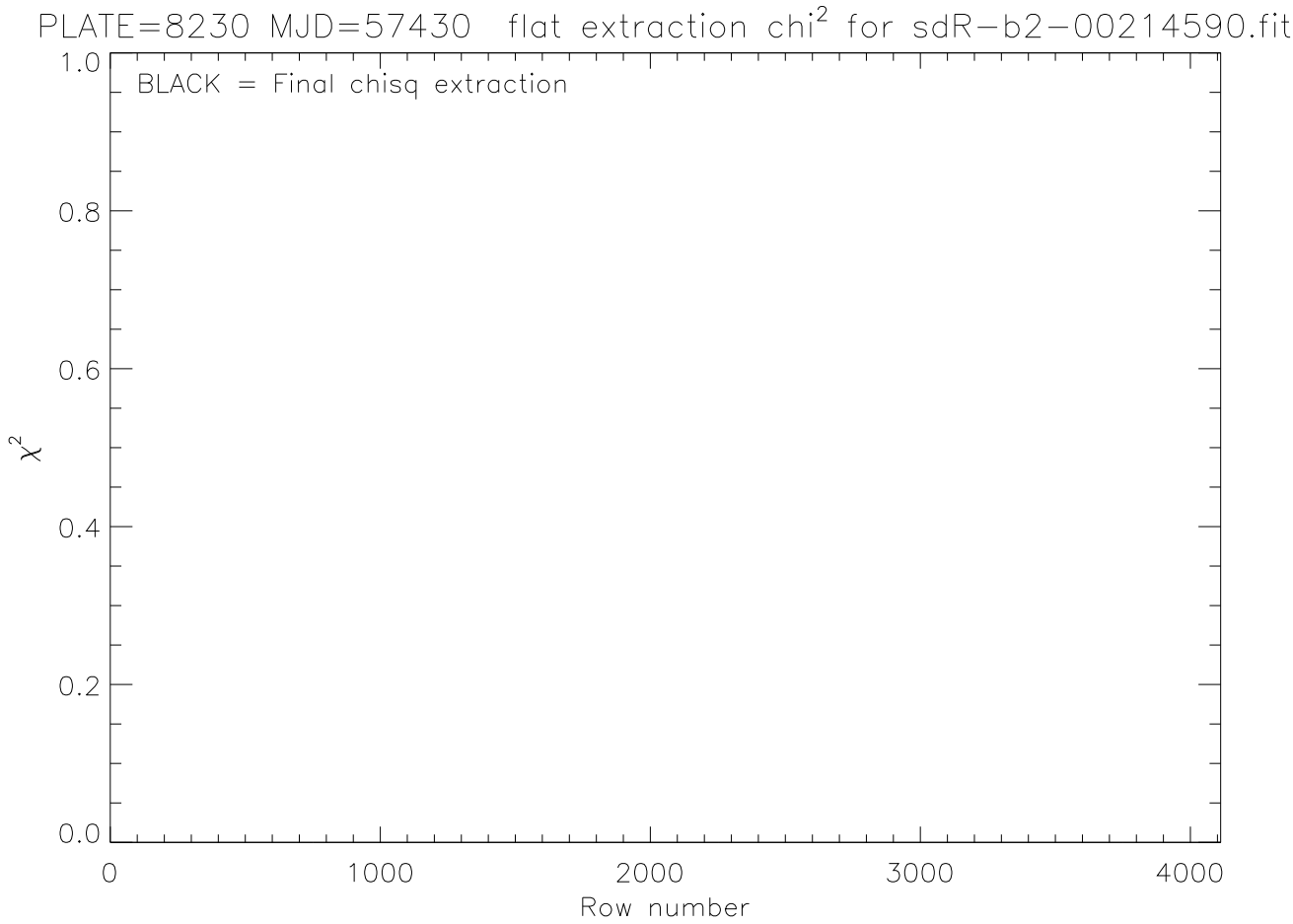


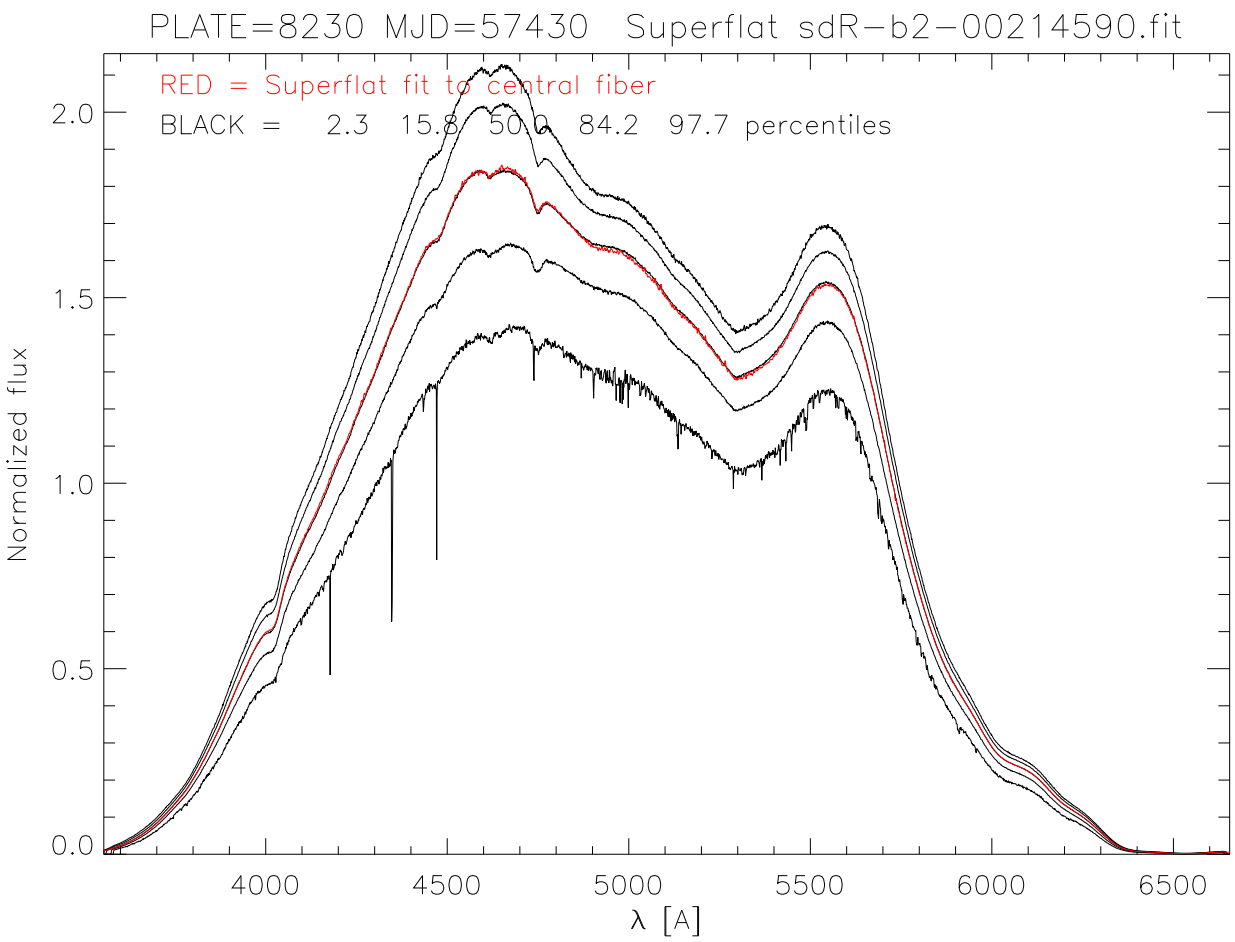

PLATE=8230 MJD=57430 sdR-b1-00214596.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 37.41 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

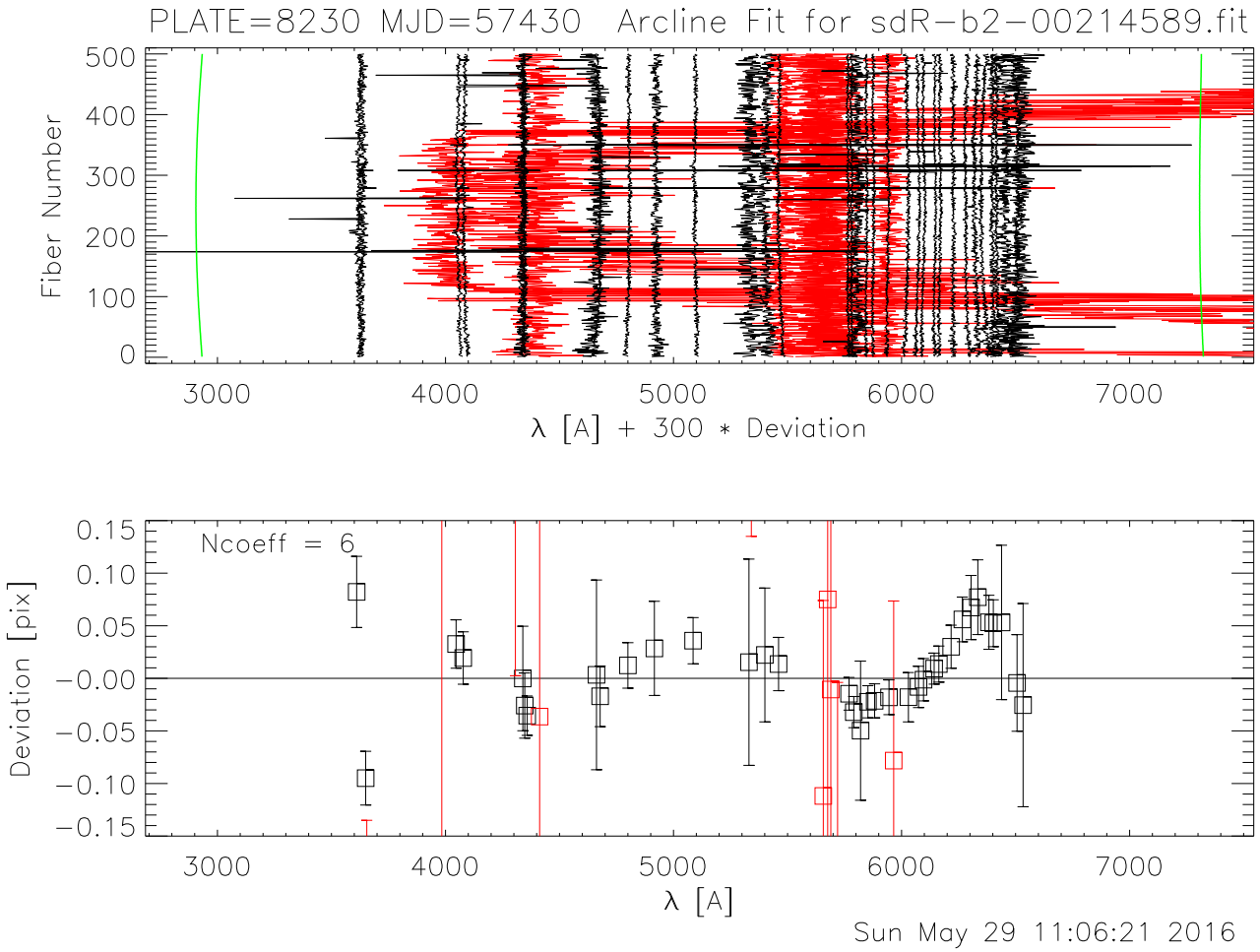

PLATE=8230 MJD=57430 sdR-b1-00214596.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 5.28 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

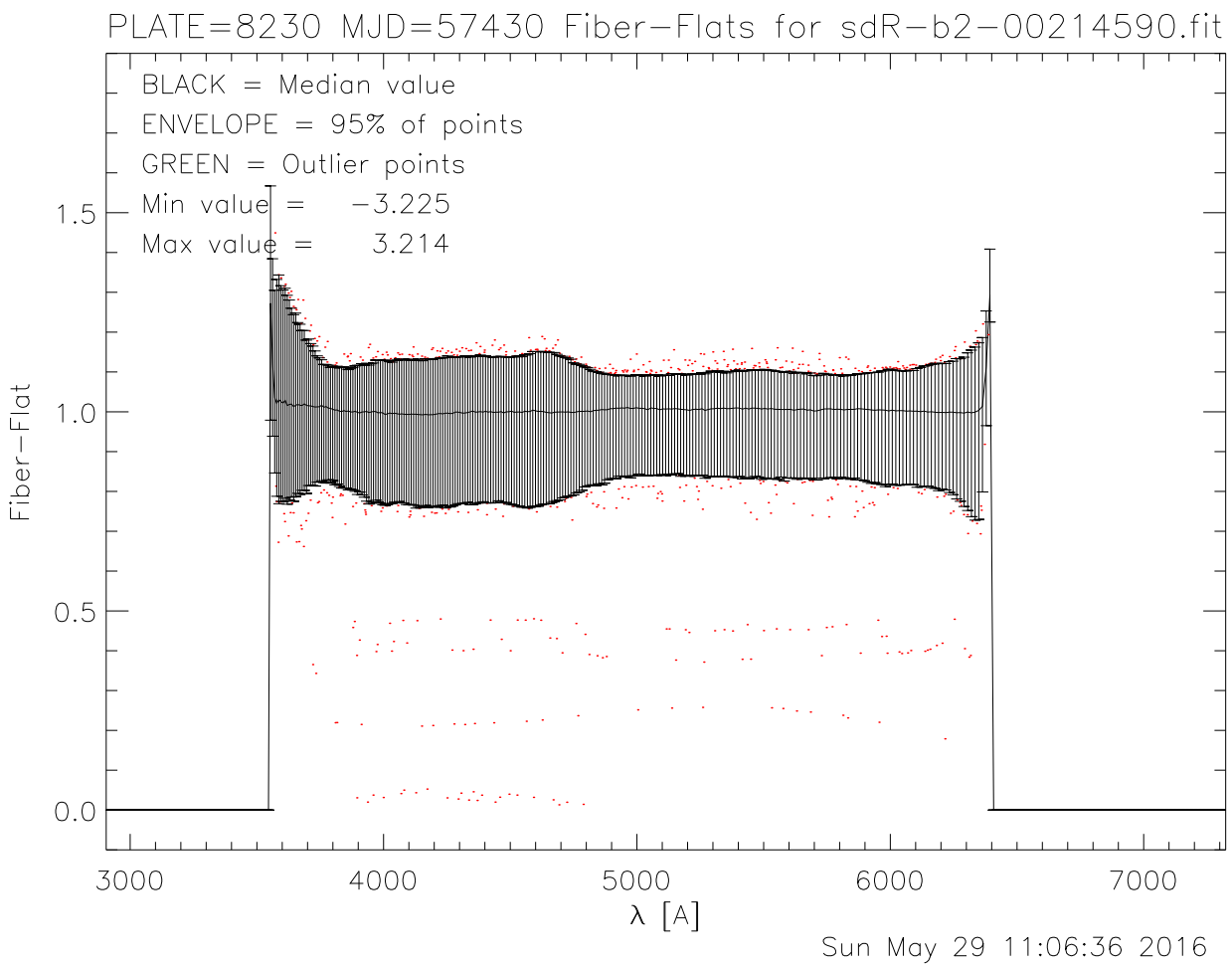
PLATE=8230 MJD=57430 Traces sdR-b2-00214590.fit

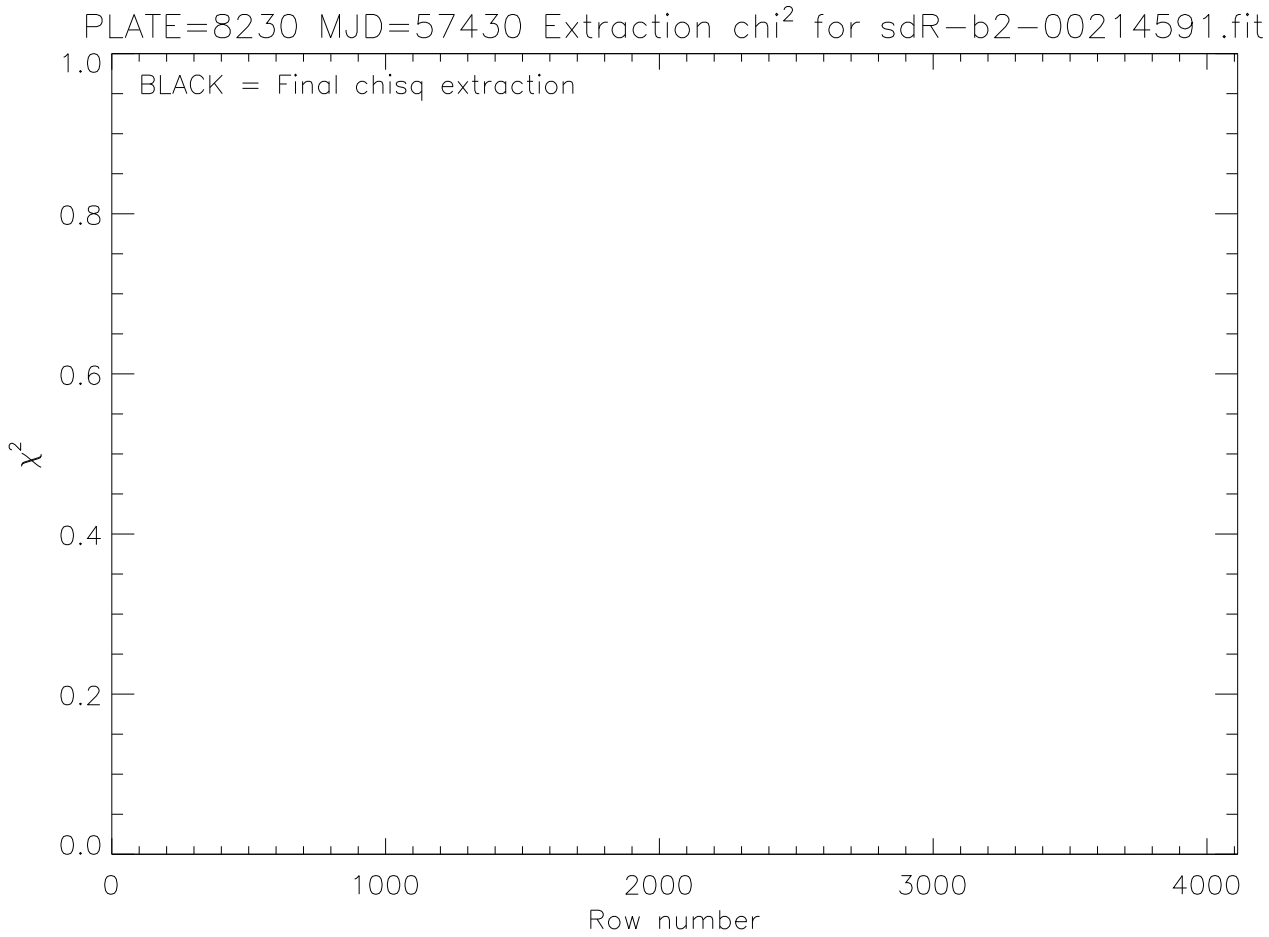


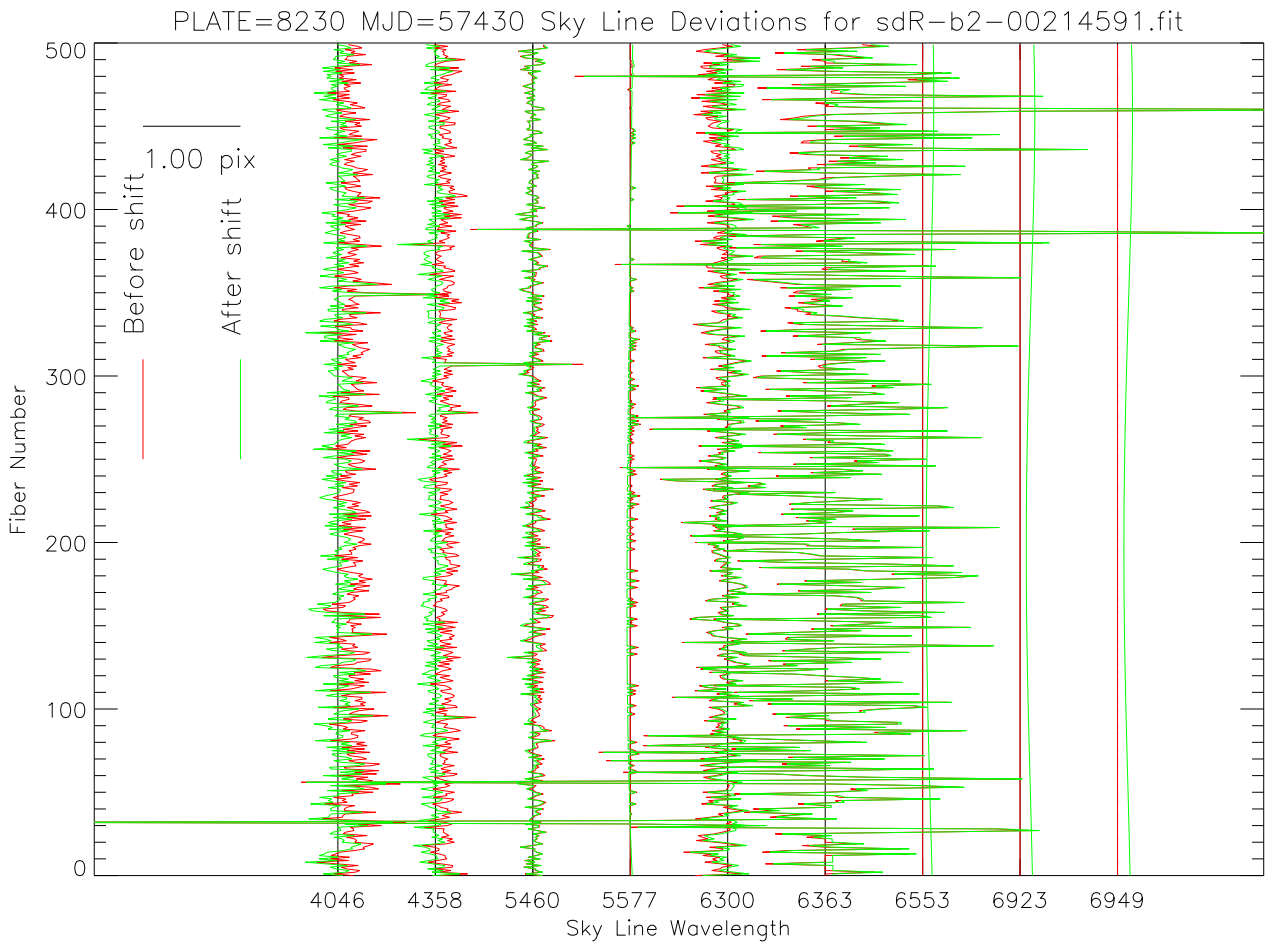

PLATE=8230 MJD=57430 flat extraction chi^2 for sdR−b2−00214590.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number

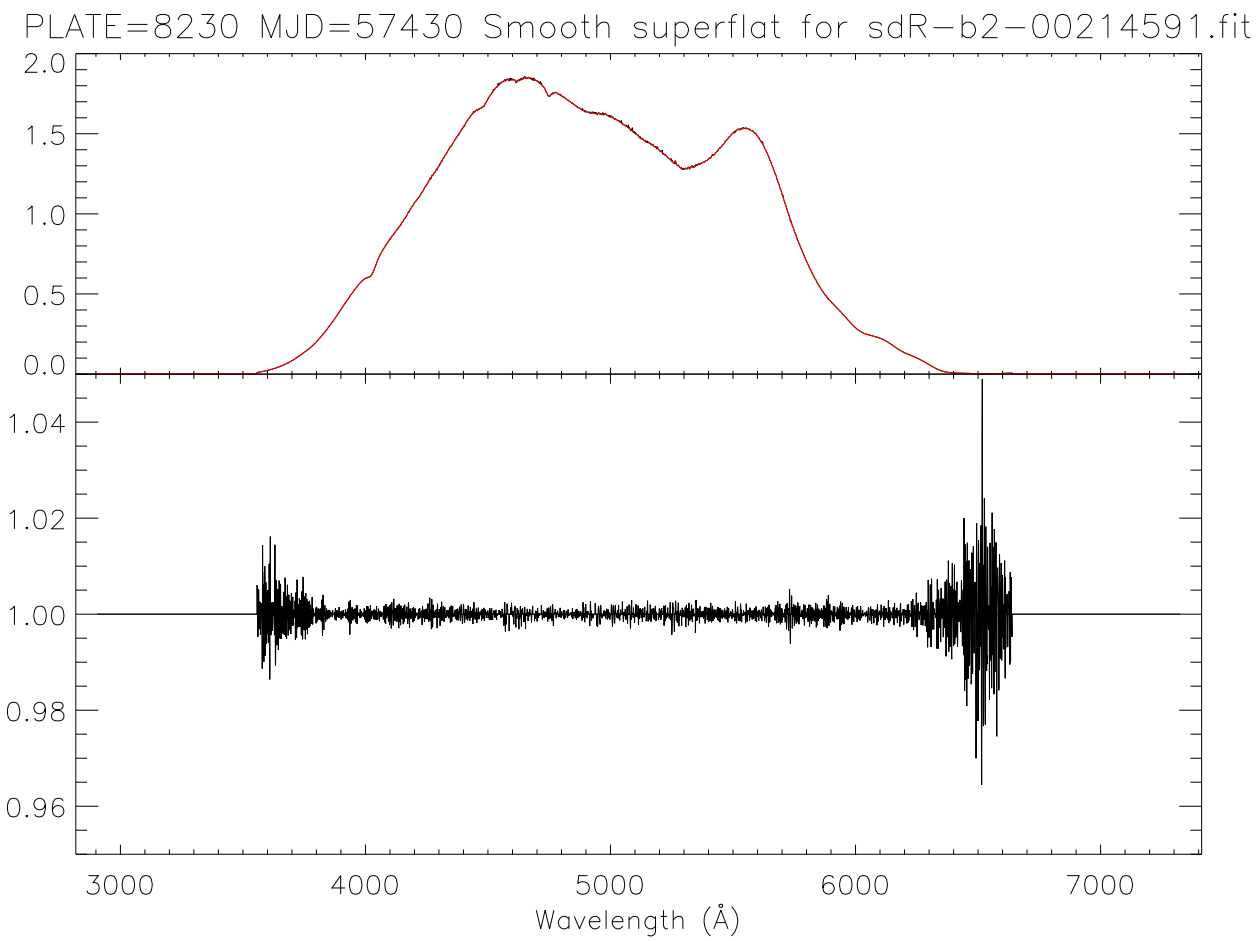

PLATE=8230 MJD=57430 Superflat sdR-b2-00214590.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
4000
4500
5000
5500
6000
6500

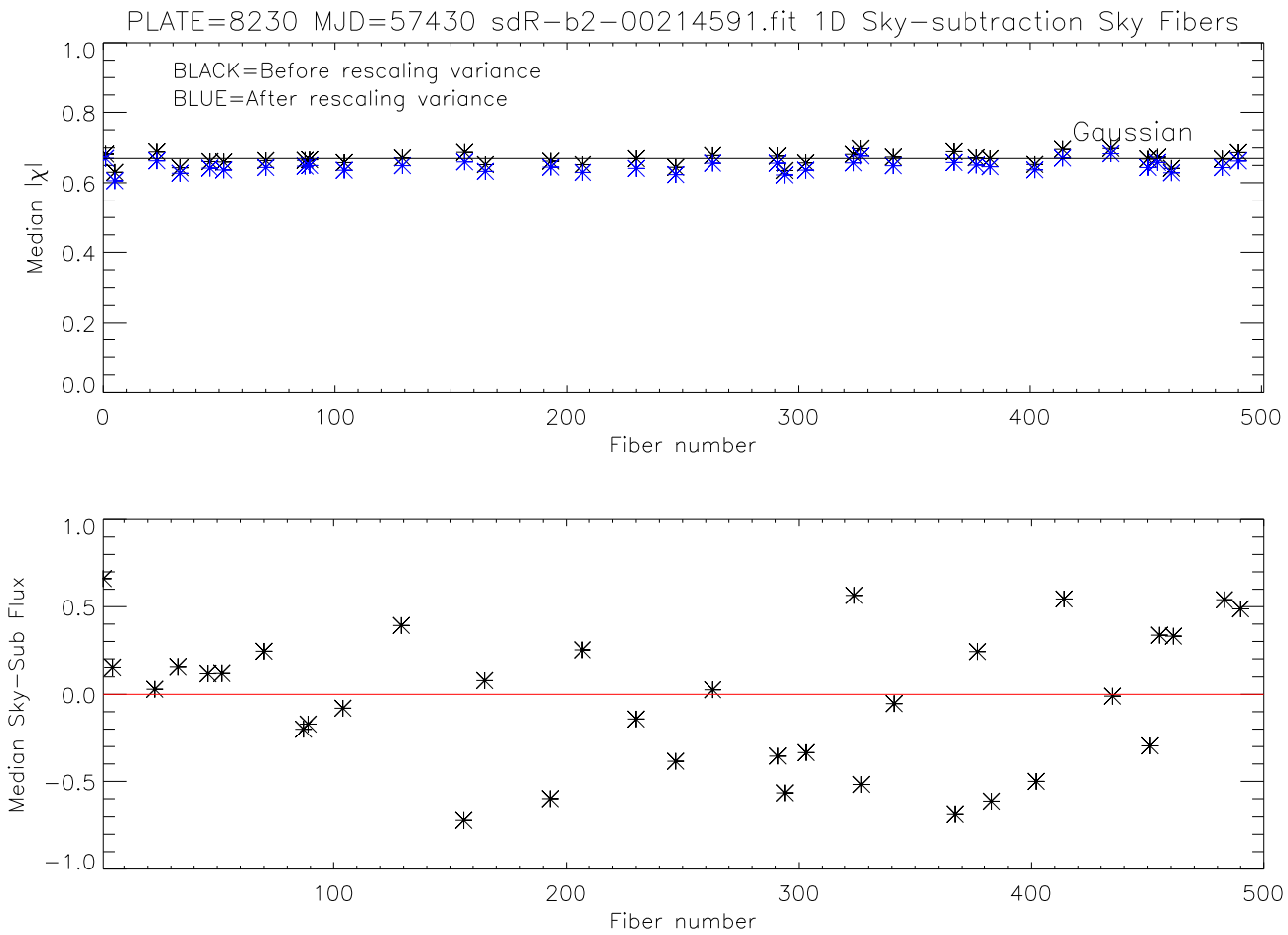

PLATE=8230 MJD=57430 Arcline Fit for sdR-b2-00214589.fit
Fiber Number
500
400
300
200
100
0
3000
4000
5000
6000
7000
λ [A] + 300 * Deviation
Ncoeff = 6
Deviation [pix]
0.15
0.10
0.05
−0.00
−0.05
−0.10
−0.15
3000
4000
5000
6000
7000
λ [A]
Sun May 29 11:06:21 2016

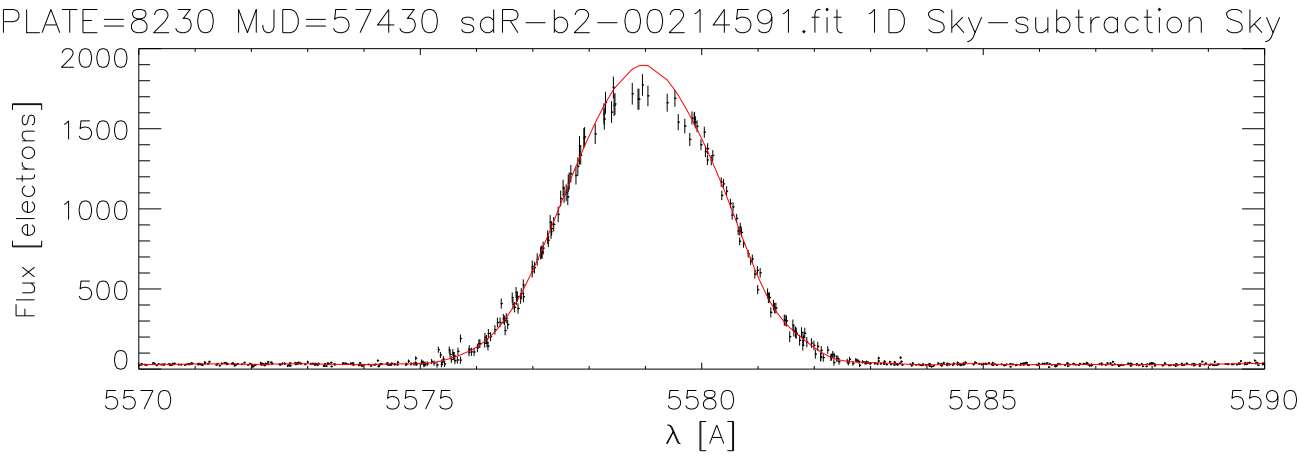

PLATE=8230 MJD=57430 Fiber−Flats for sdR−b2−00214590.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −3.225
Max value = 3.214
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sun May 29 11:06:36 2016

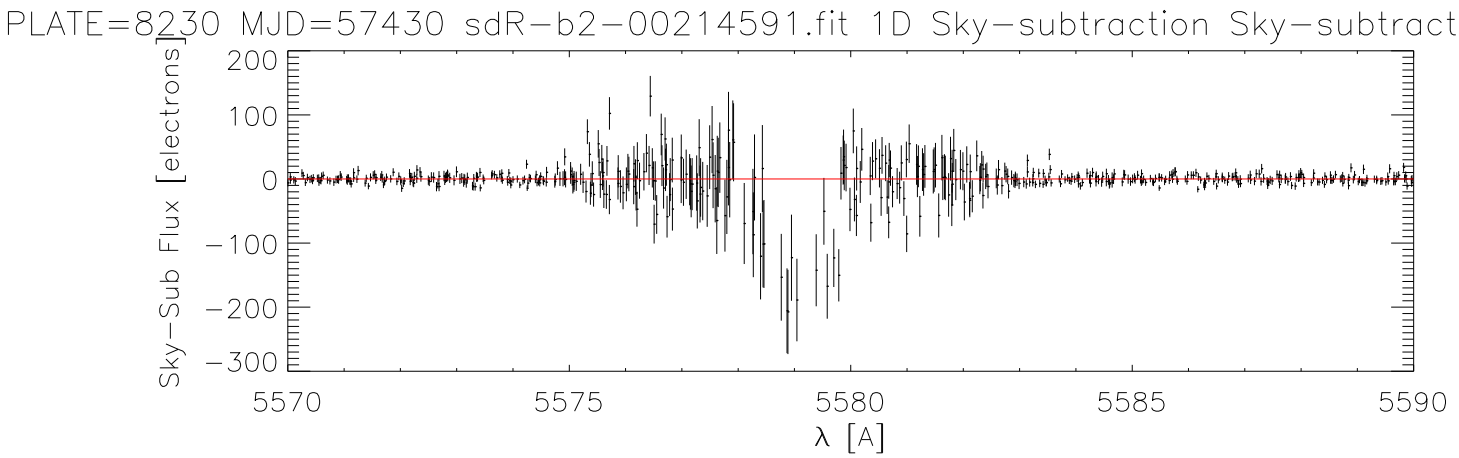

PLATE=8230 MJD=57430 Extraction chi^2 for sdR-b2-00214591.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=8230 MJD=57430 Sky Line Deviations for sdR-b2-00214591.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

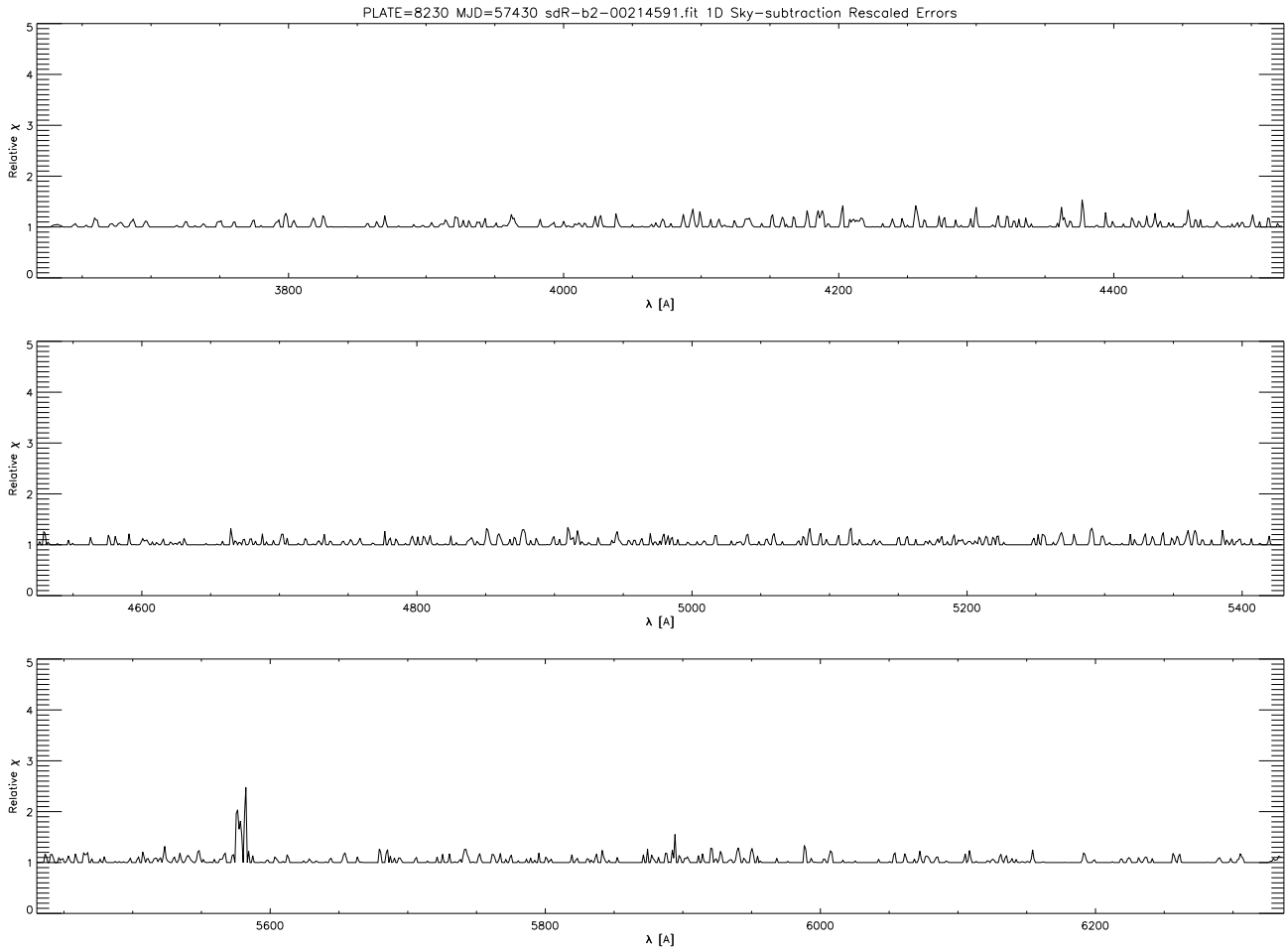

PLATE=8230 MJD=57430 Smooth superflat for sdR-b2-00214591.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

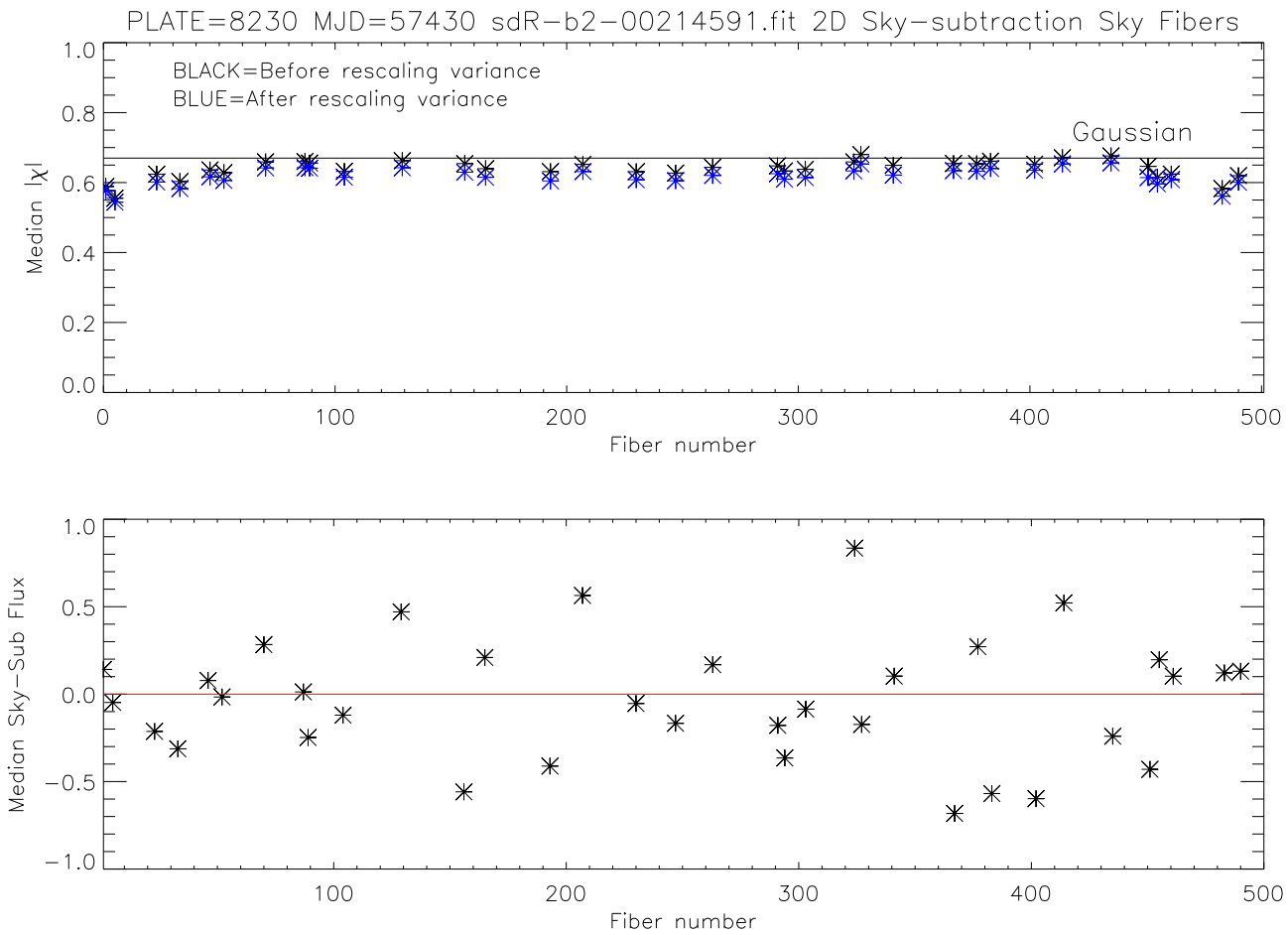

PLATE=8230 MJD=57430 sdR-b2-00214591.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

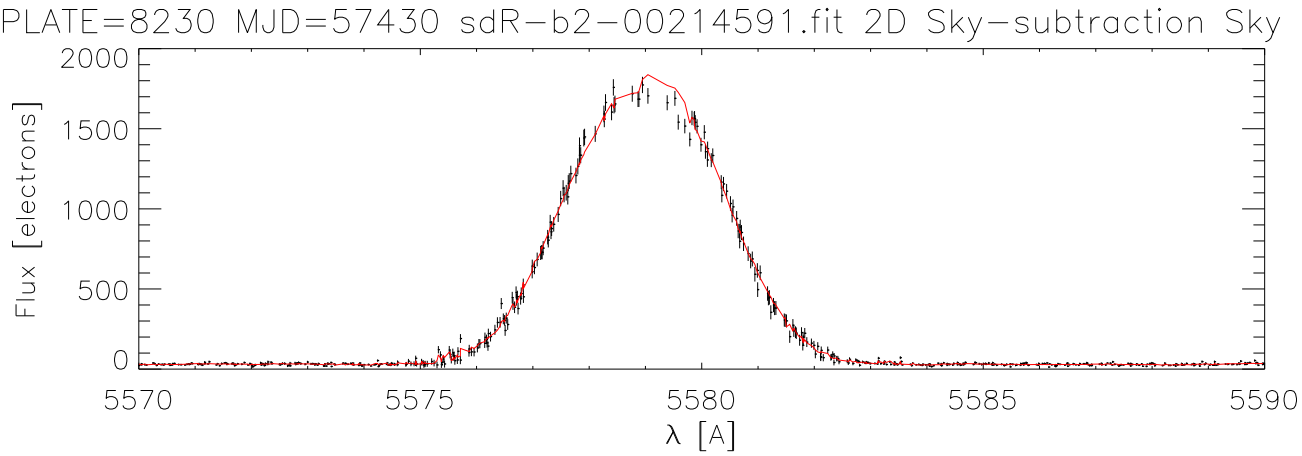

PLATE=8230 MJD=57430 sdR-b2-00214591.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

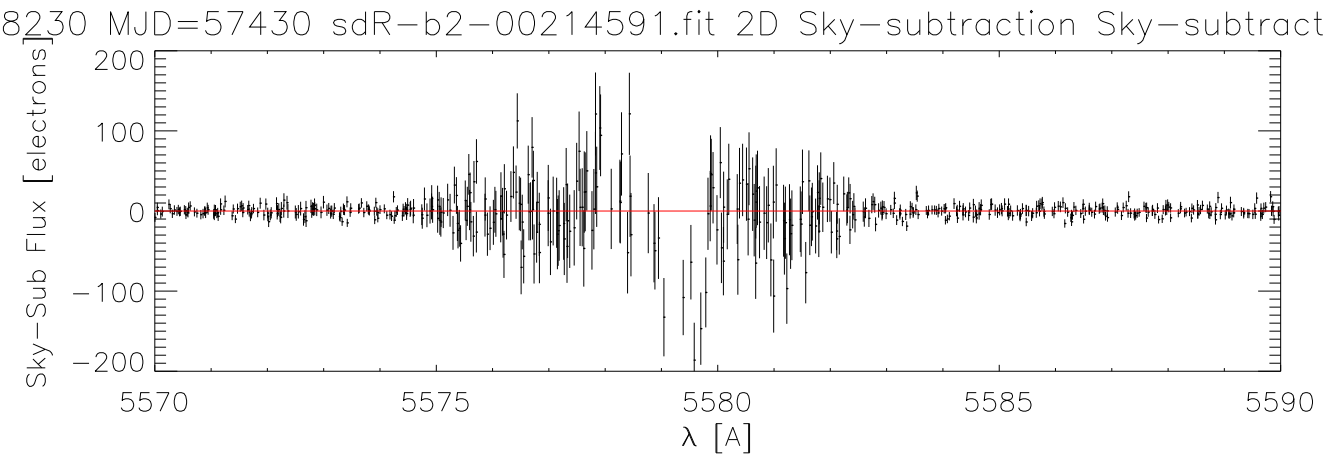

PLATE=8230 MJD=57430 sdR-b2-00214591.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 35

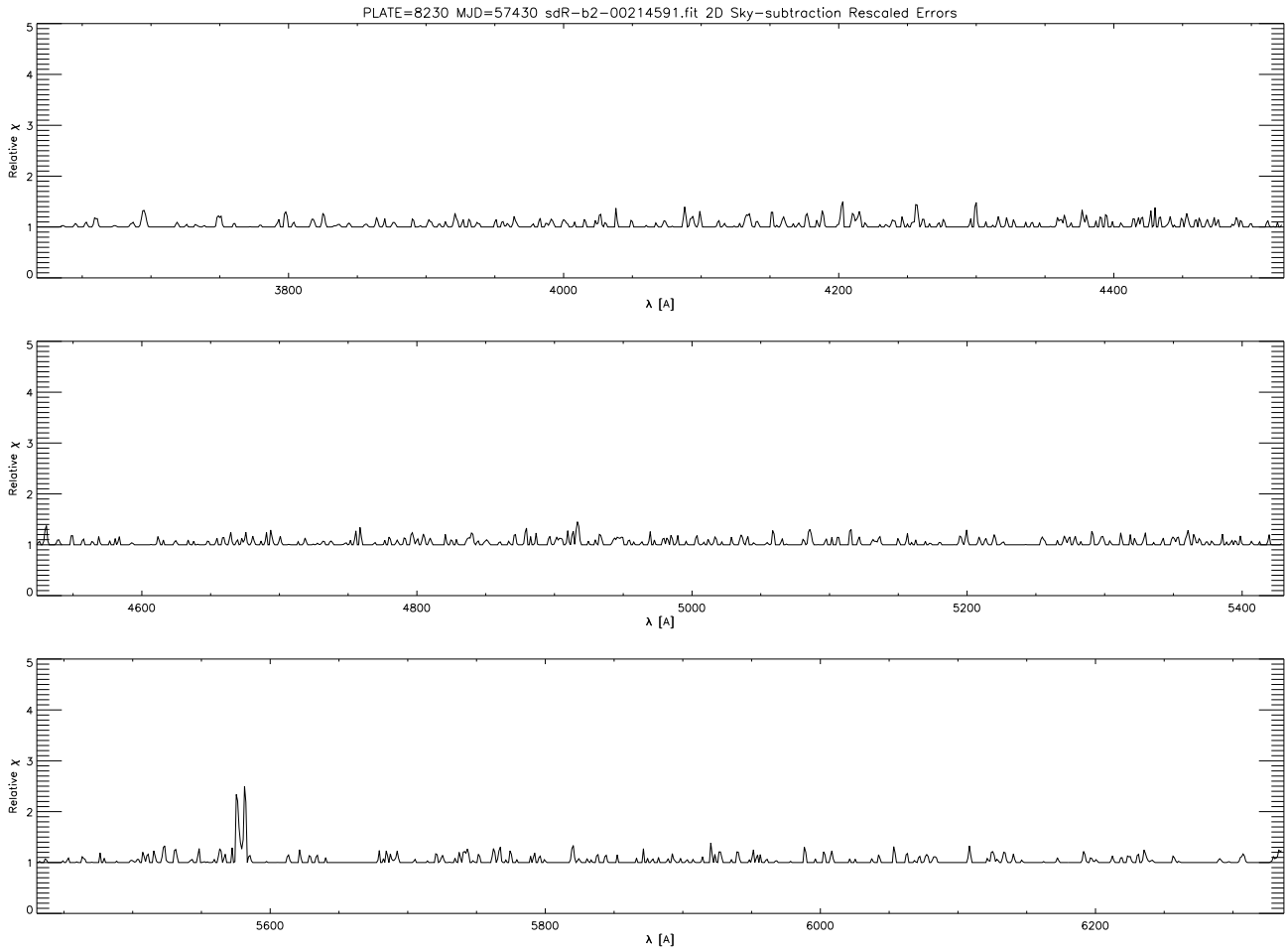


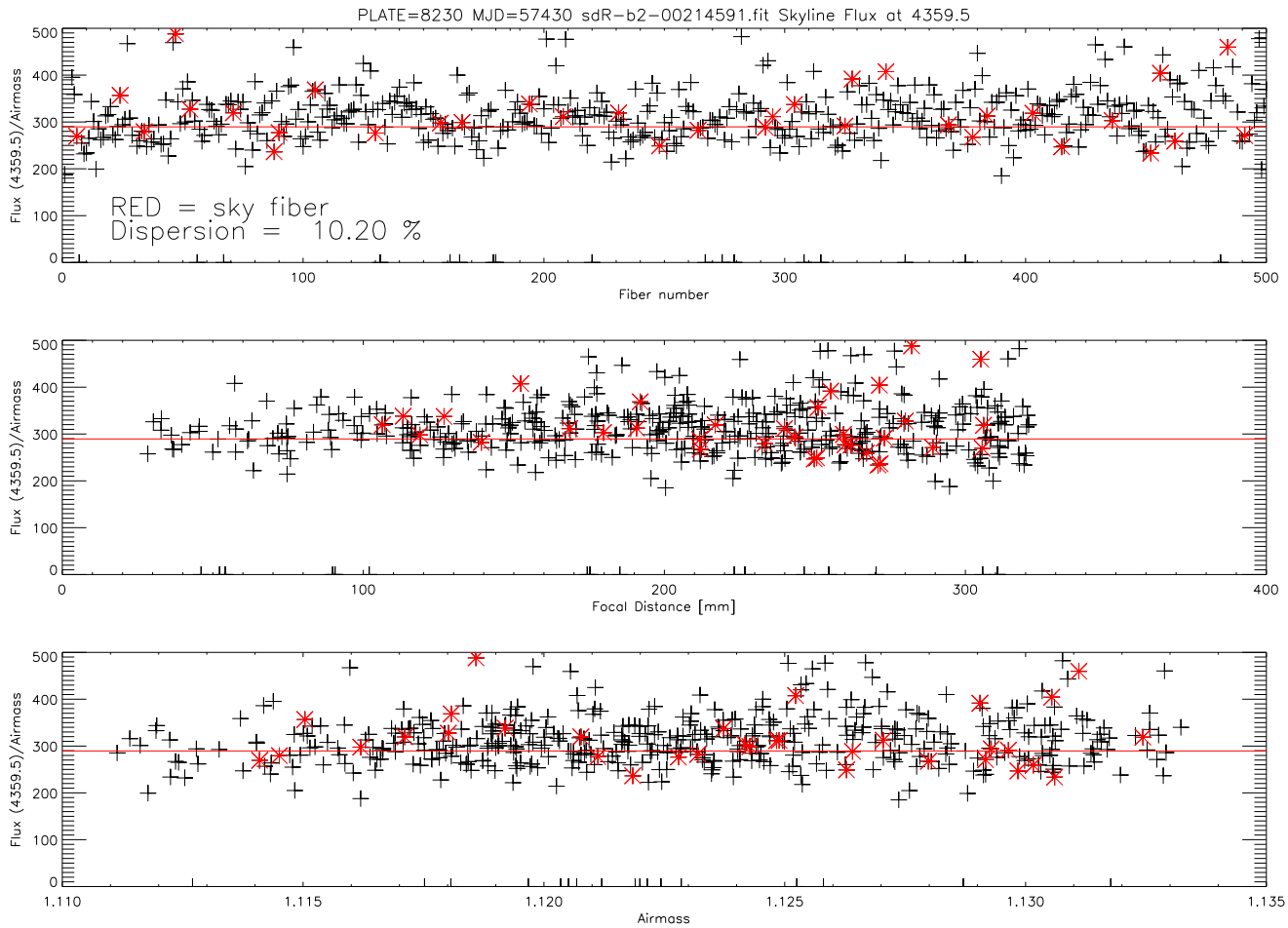

PLATE=8230 MJD=57430 sdR-b2-00214591.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

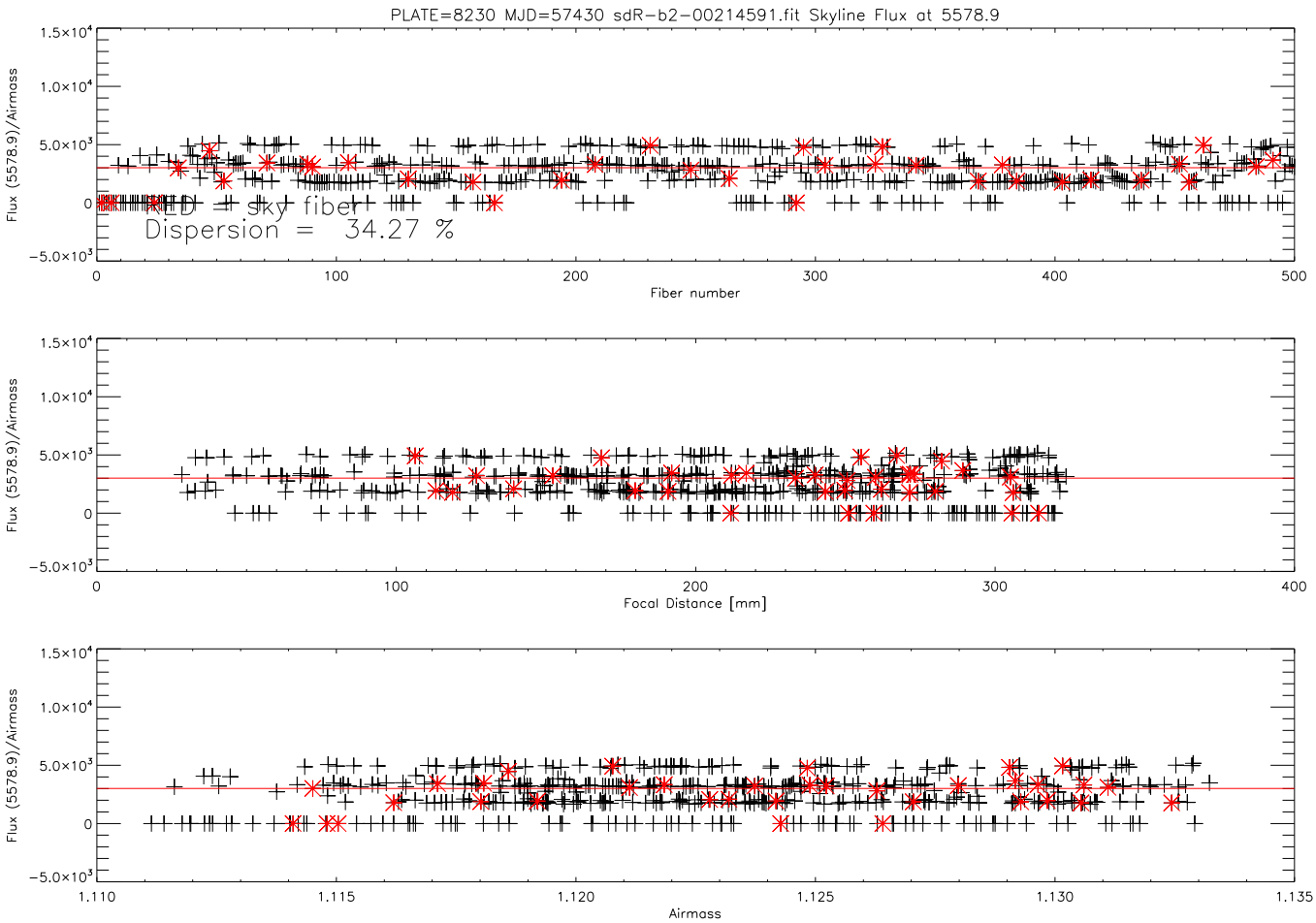

PLATE=8230 MJD=57430 sdR-b2-00214591.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

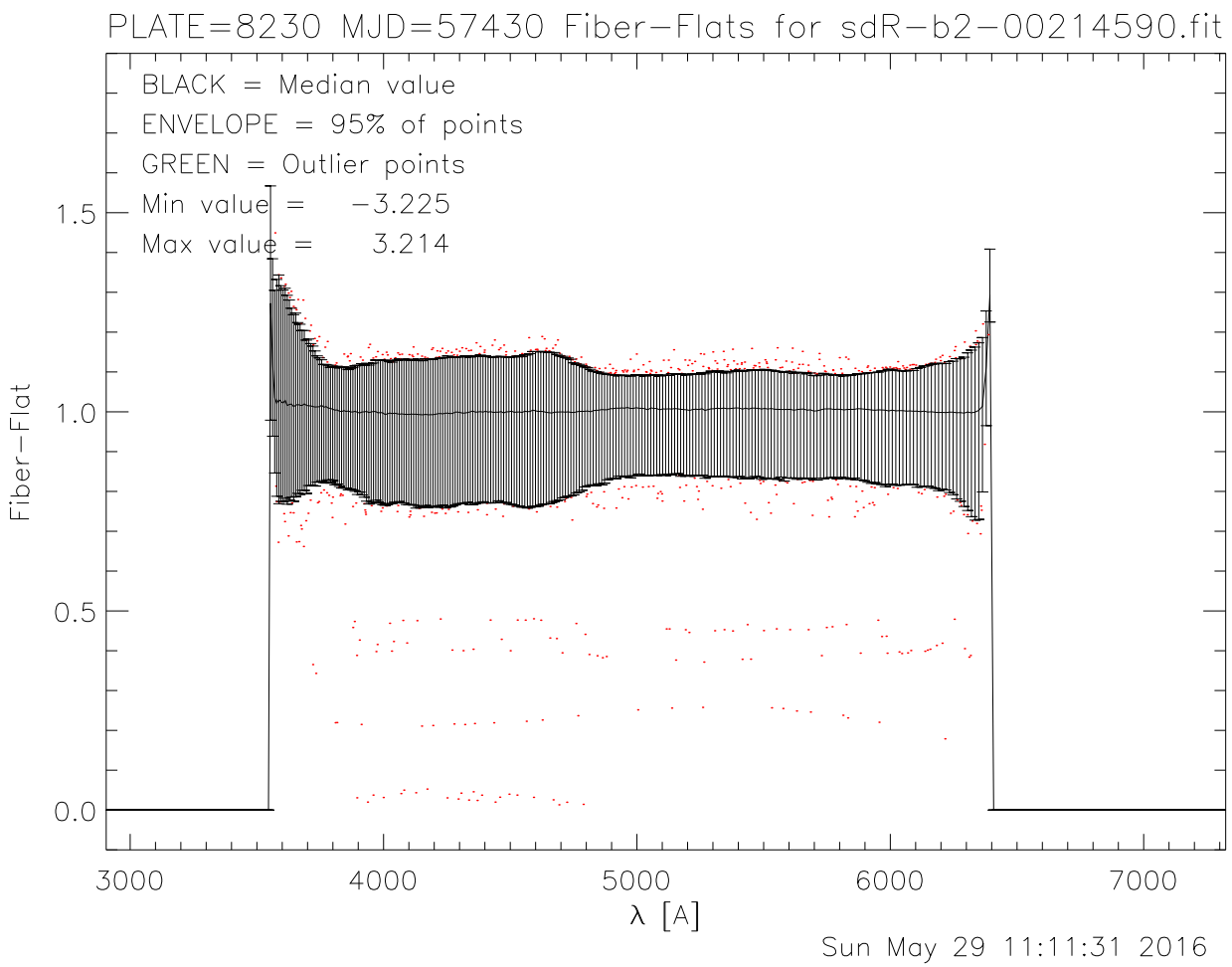

PLATE=8230 MJD=57430 sdR-b2-00214591.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

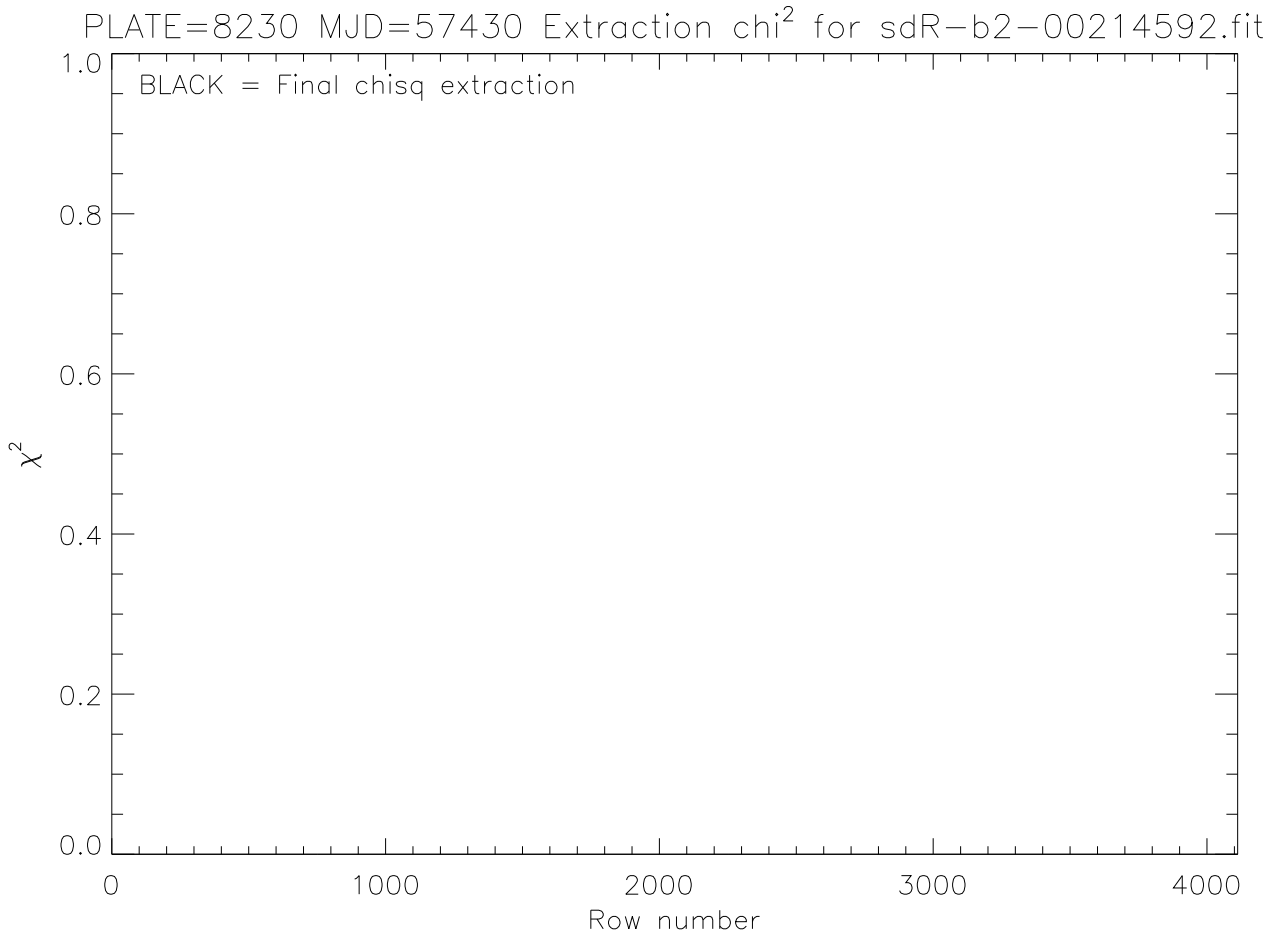
Number of sky fibers = 35

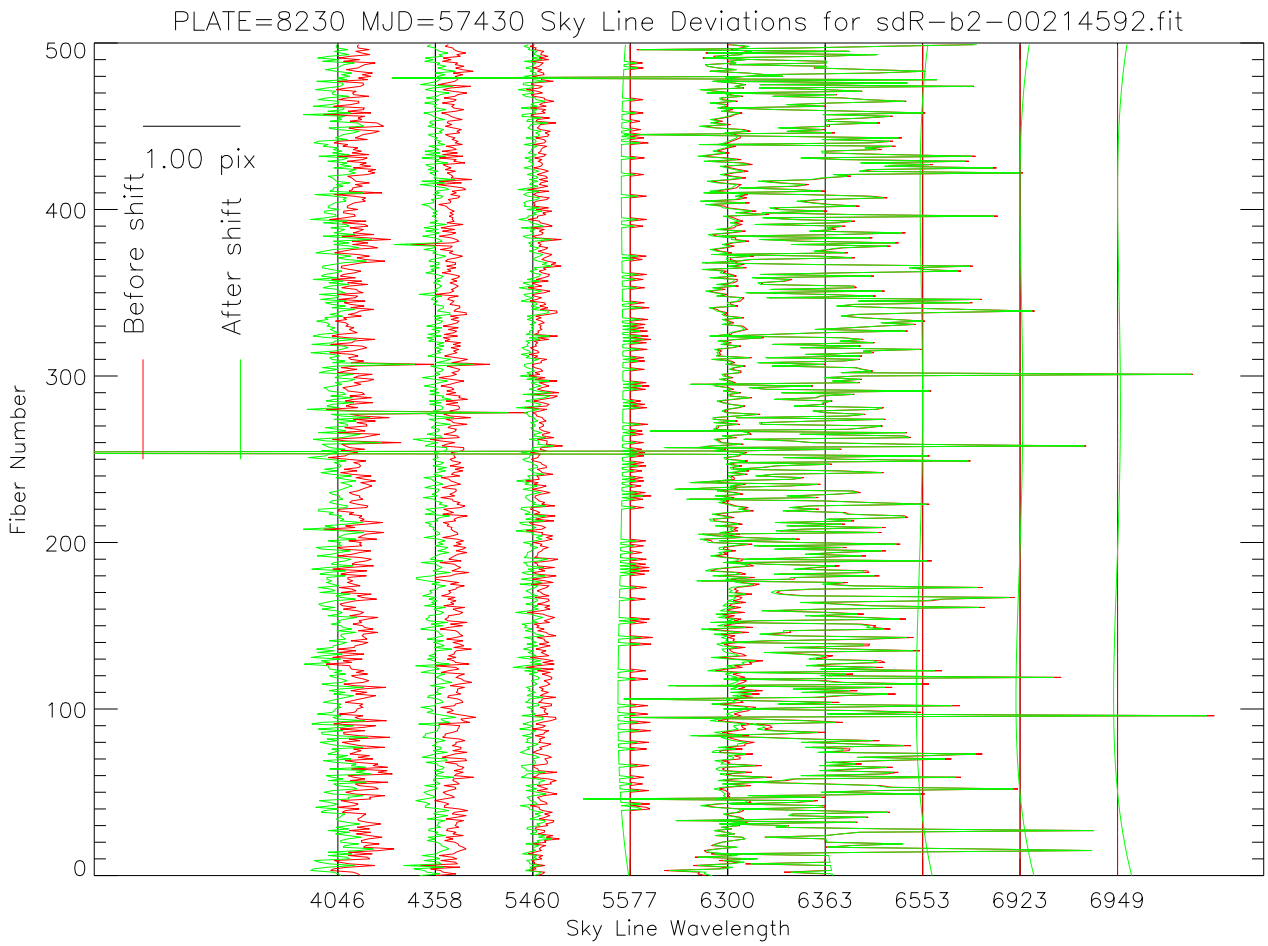


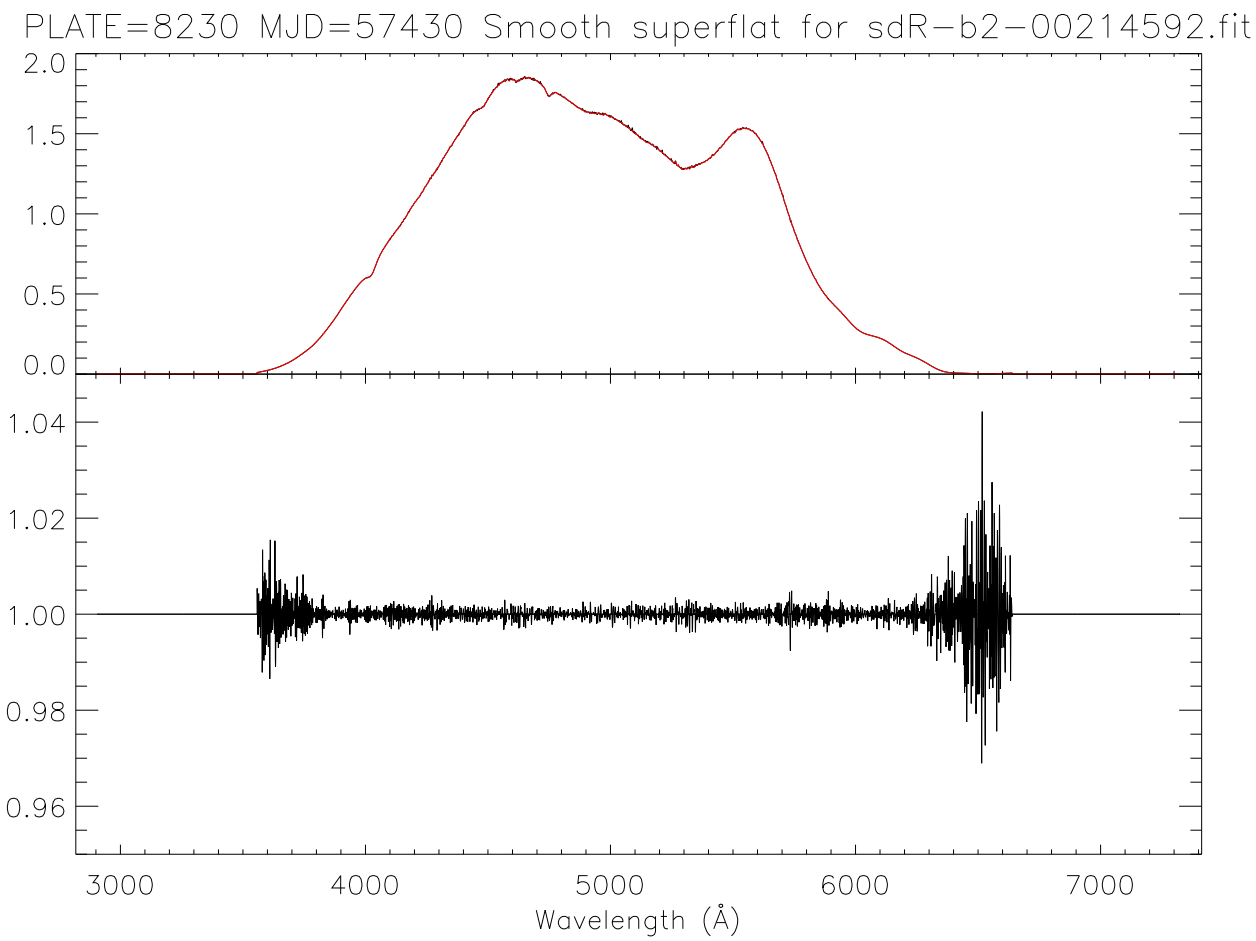

PLATE=8230 MJD=57430 sdR-b2-00214591.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 10.20 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

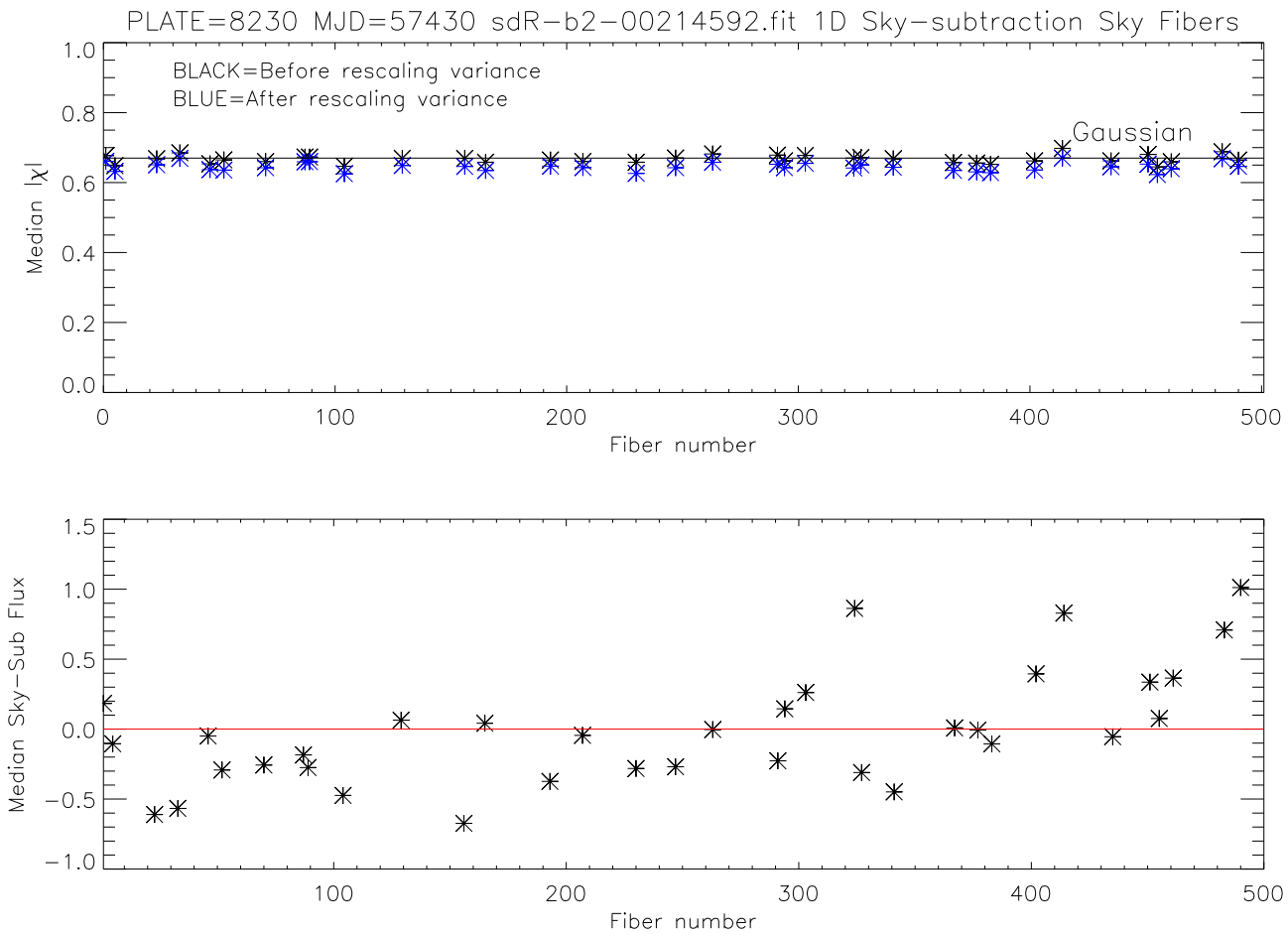

PLATE=8230 MJD=57430 sdR-b2-00214591.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
1.5×10⁴
1.0×10⁴
5.0×10³
0
−5.0×10³
0
100
200
300
400
500
Fiber number
MJD = sky fiber
Dispersion = 34.27 %
Flux (5578.9)/Airmass
1.5×10⁴
1.0×10⁴
5.0×10³
0
−5.0×10³
0
100
200
300
400
Focal Distance [mm]
Flux (5578.9)/Airmass
1.5×10⁴
1.0×10⁴
5.0×10³
0
−5.0×10³
1.110
1.115
1.120
1.125
1.130
1.135
Airmass

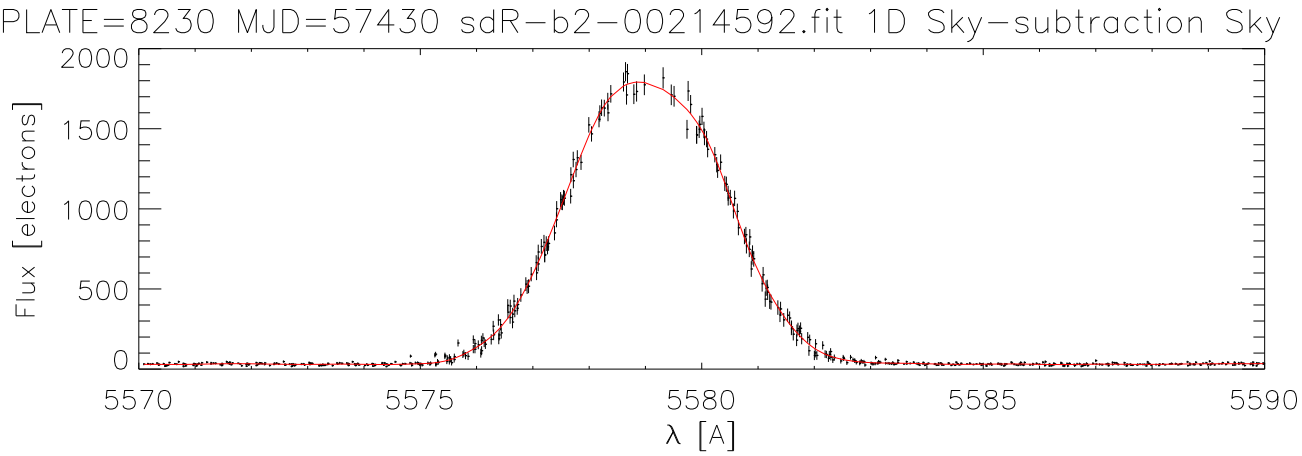

PLATE=8230 MJD=57430 Fiber−Flats for sdR−b2−00214590.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −3.225
Max value = 3.214
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sun May 29 11:11:31 2016

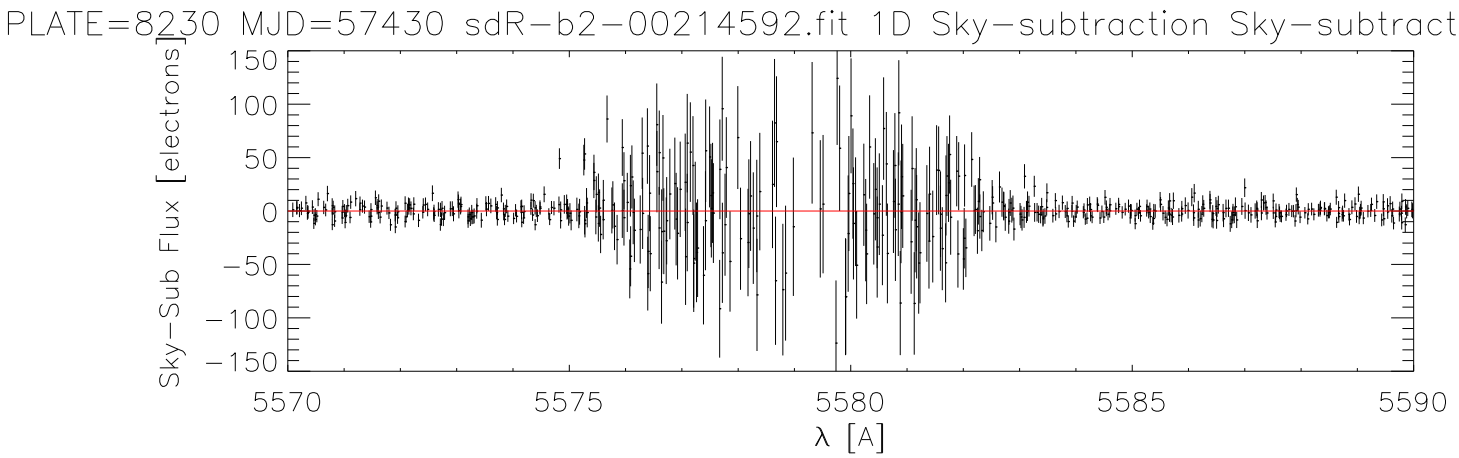

PLATE=8230 MJD=57430 Extraction chi^2 for sdR-b2-00214592.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=8230 MJD=57430 Sky Line Deviations for sdR-b2-00214592.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

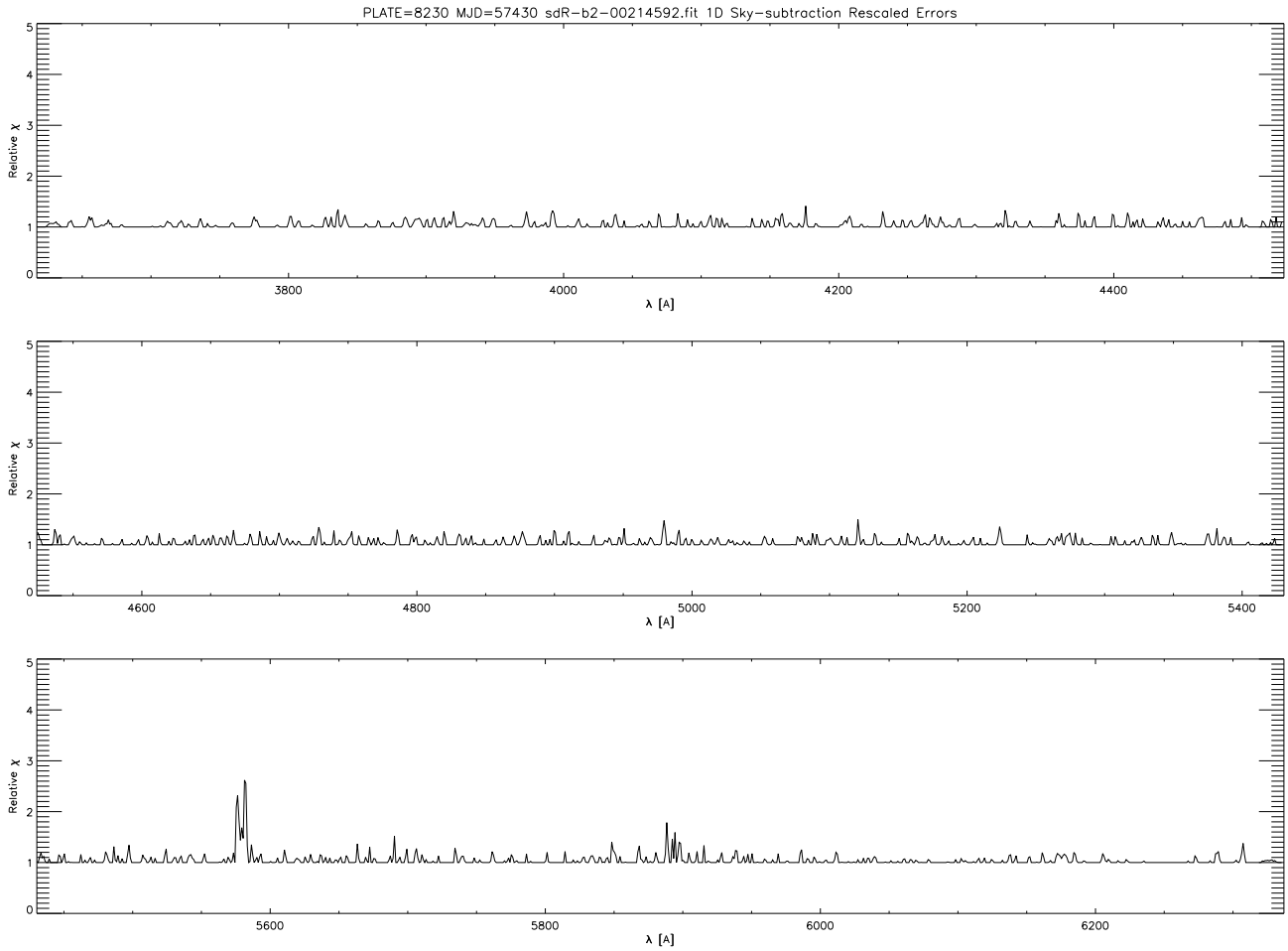

PLATE=8230 MJD=57430 Smooth superflat for sdR-b2-00214592.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

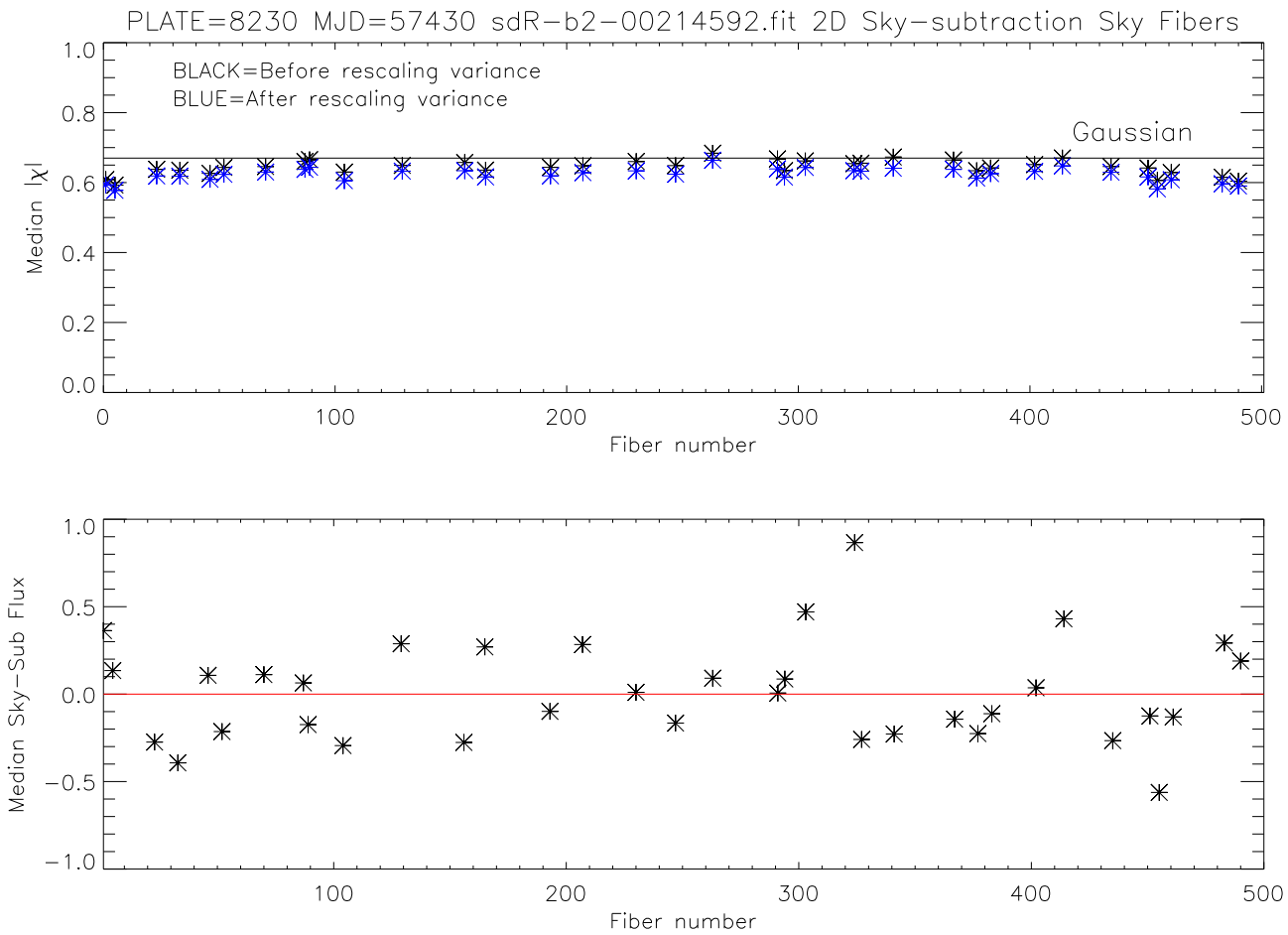

PLATE=8230 MJD=57430 sdR-b2-00214592.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number


PLATE=8230 MJD=57430 sdR-b2-00214592.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

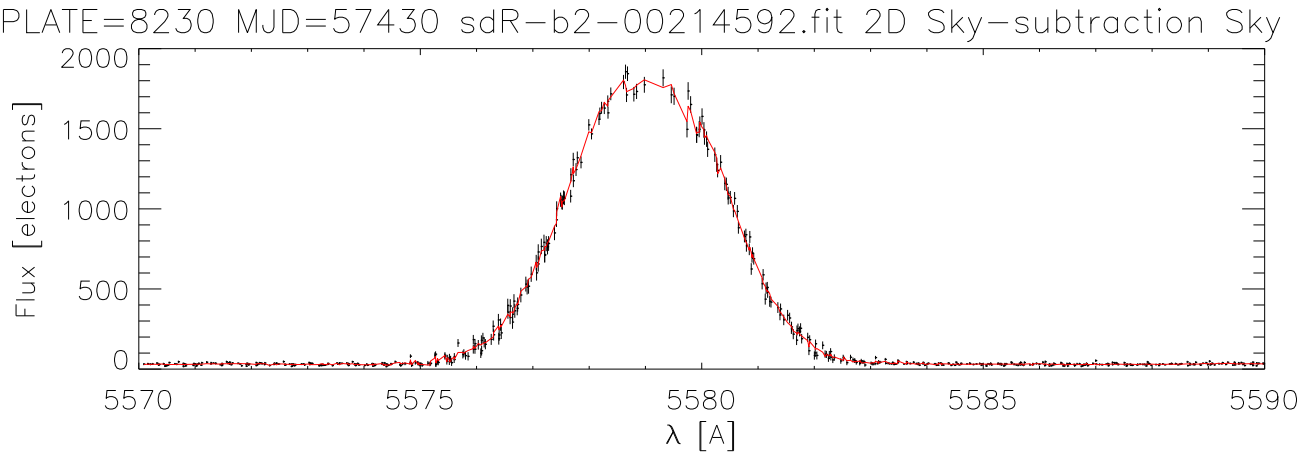

PLATE=8230 MJD=57430 sdR-b2-00214592.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
5570
5575
5580
5585
5590
λ [A]

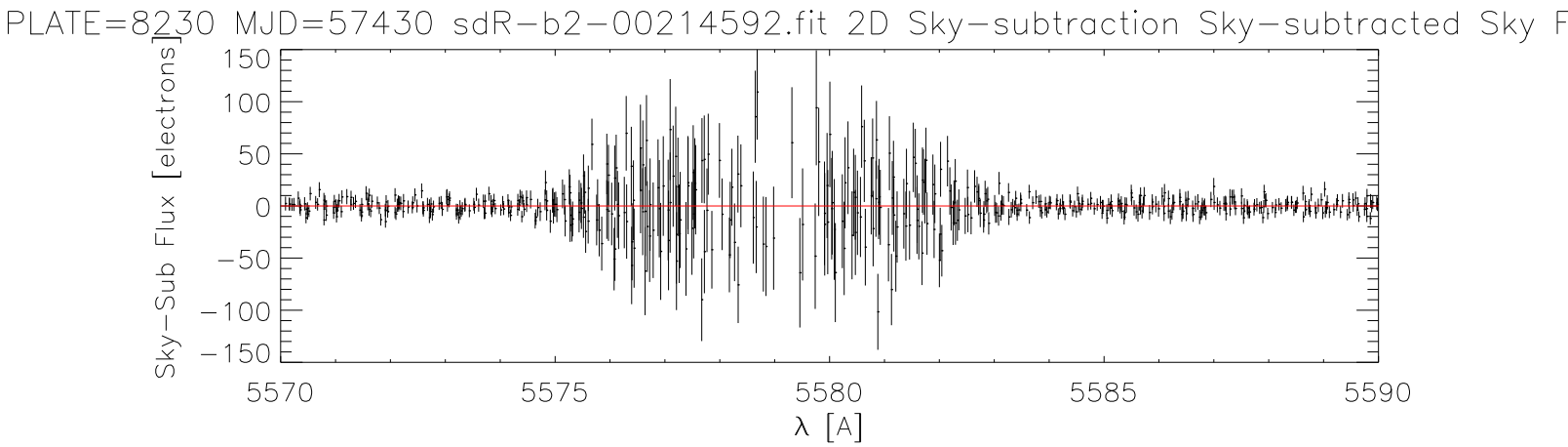
Number of sky fibers = 35



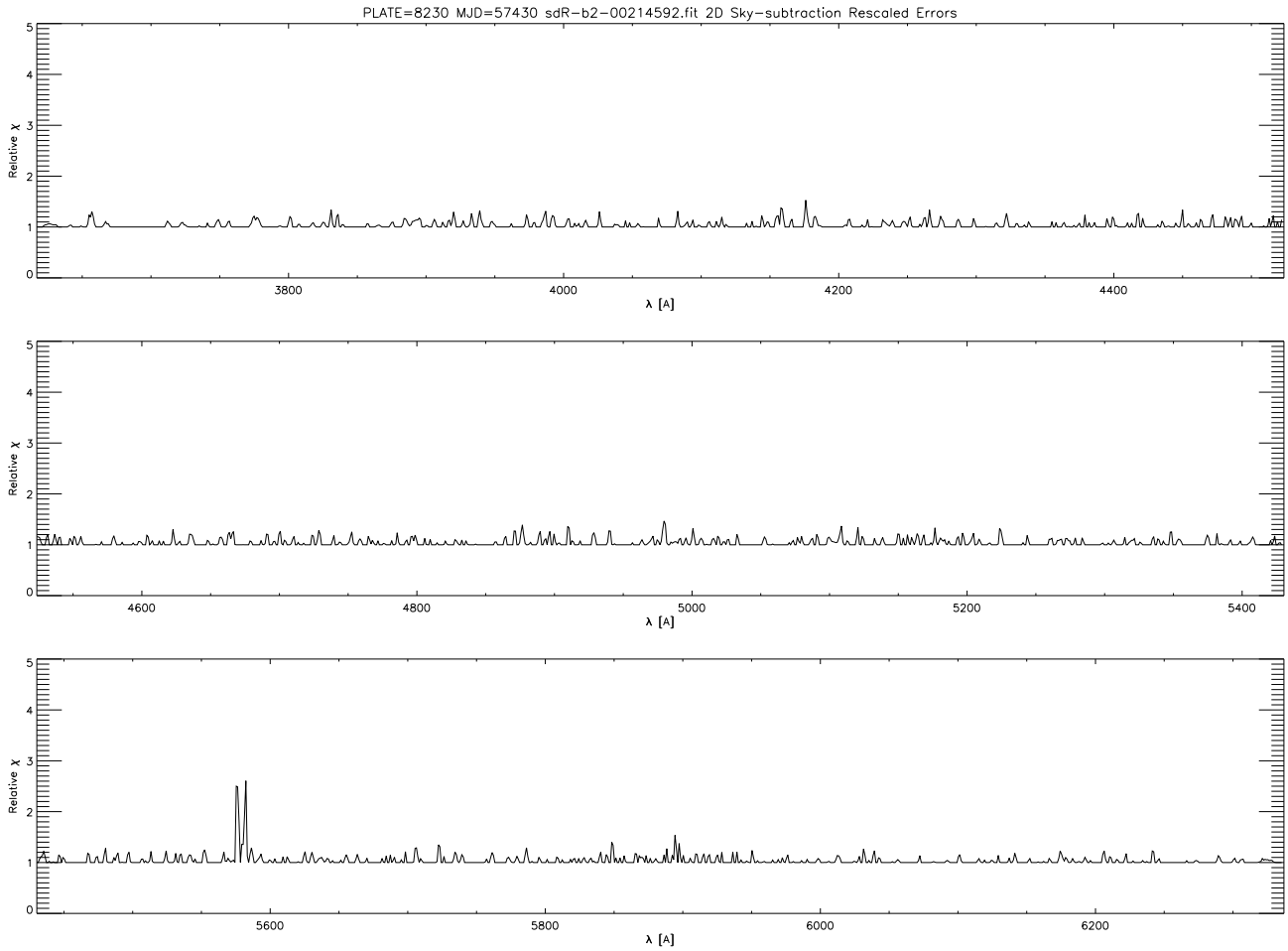

PLATE=8230 MJD=57430 sdR-b2-00214592.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
1.0
0.8
0.6
0.4
0.2
0.0
0
100
200
300
400
500

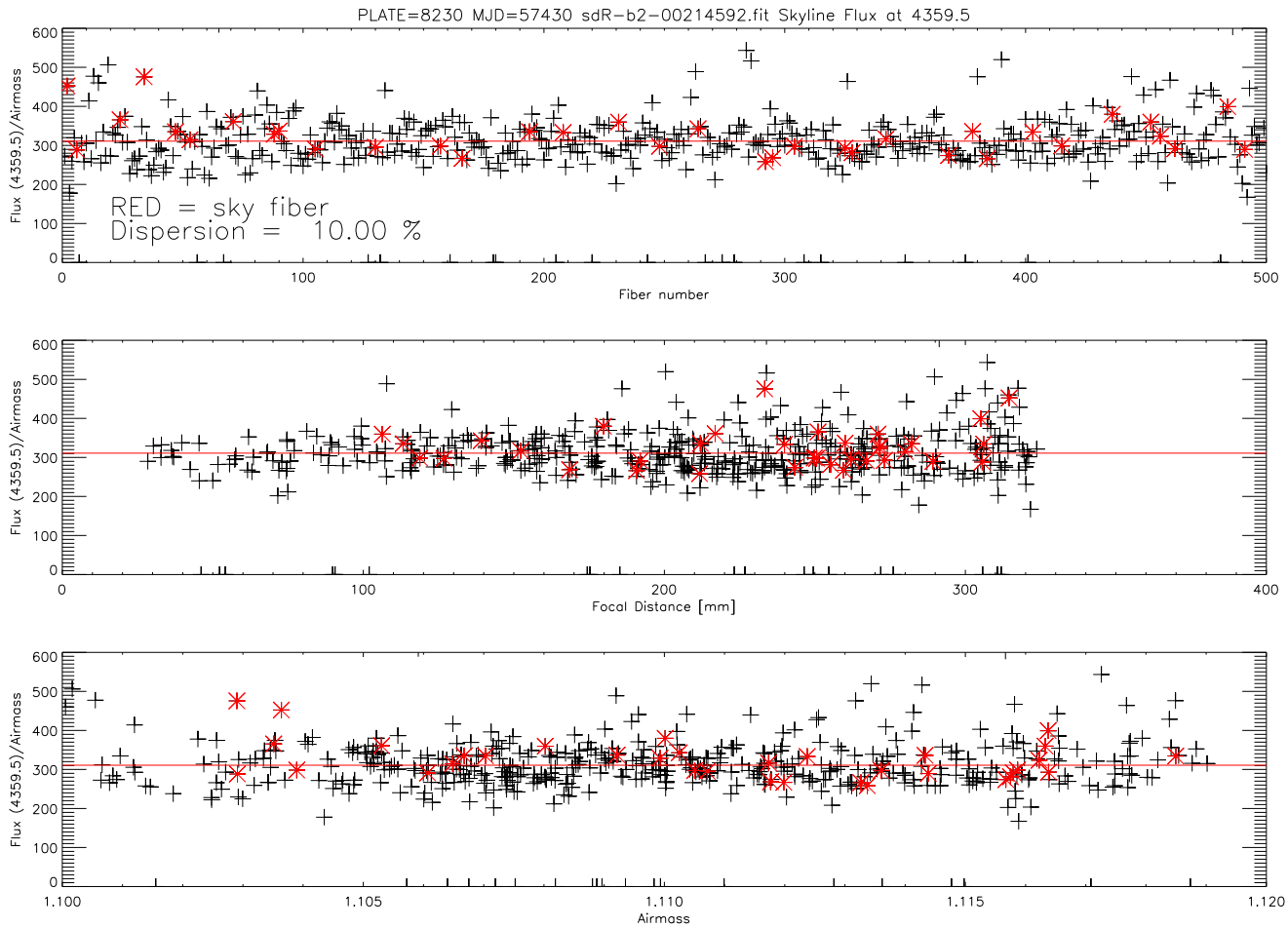
Median Sky-Sub Flux
Fiber number
1.0
0.5
0.0
−0.5
−1.0
100
200
300
400
500

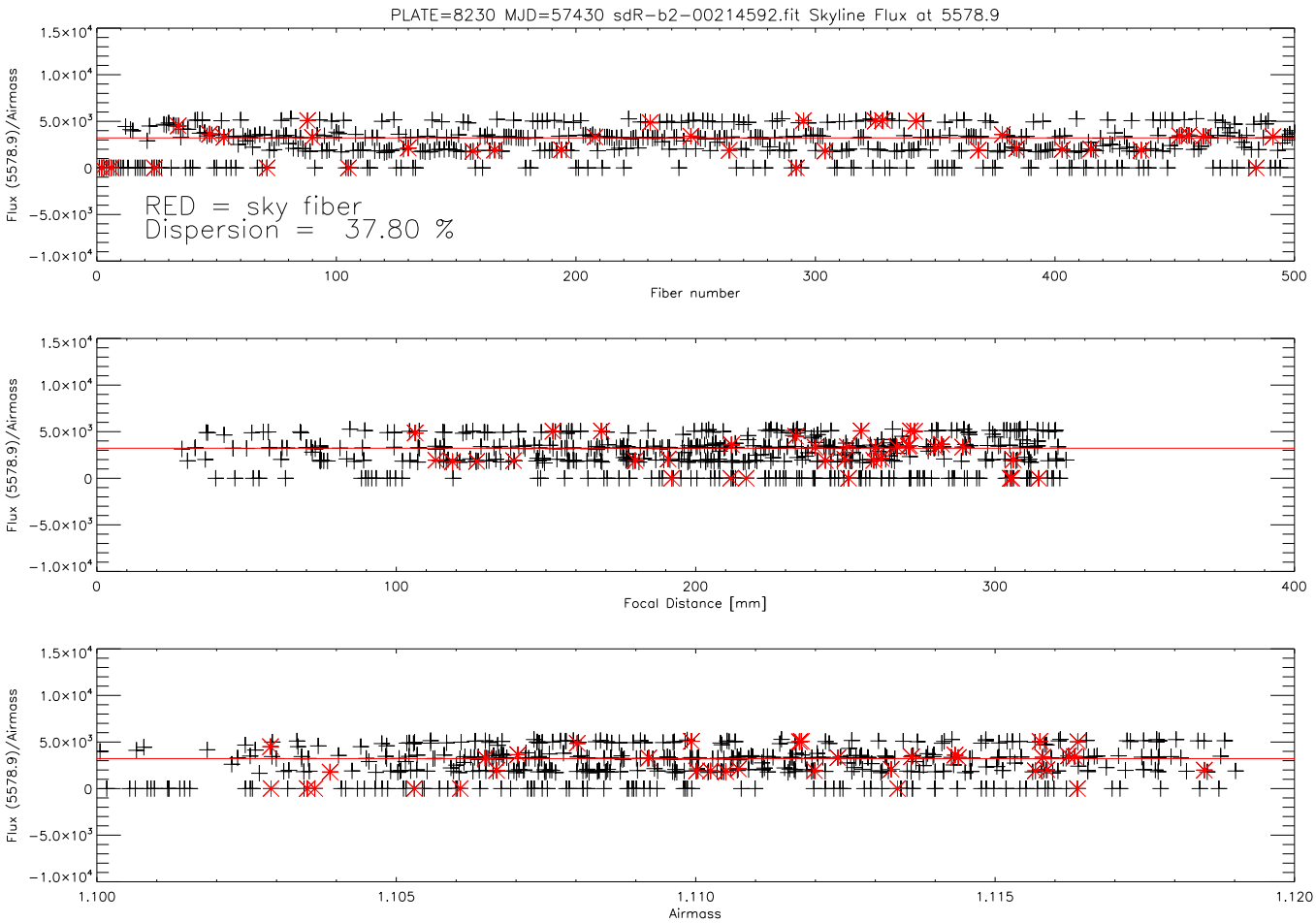

PLATE=8230 MJD=57430 sdR-b2-00214592.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

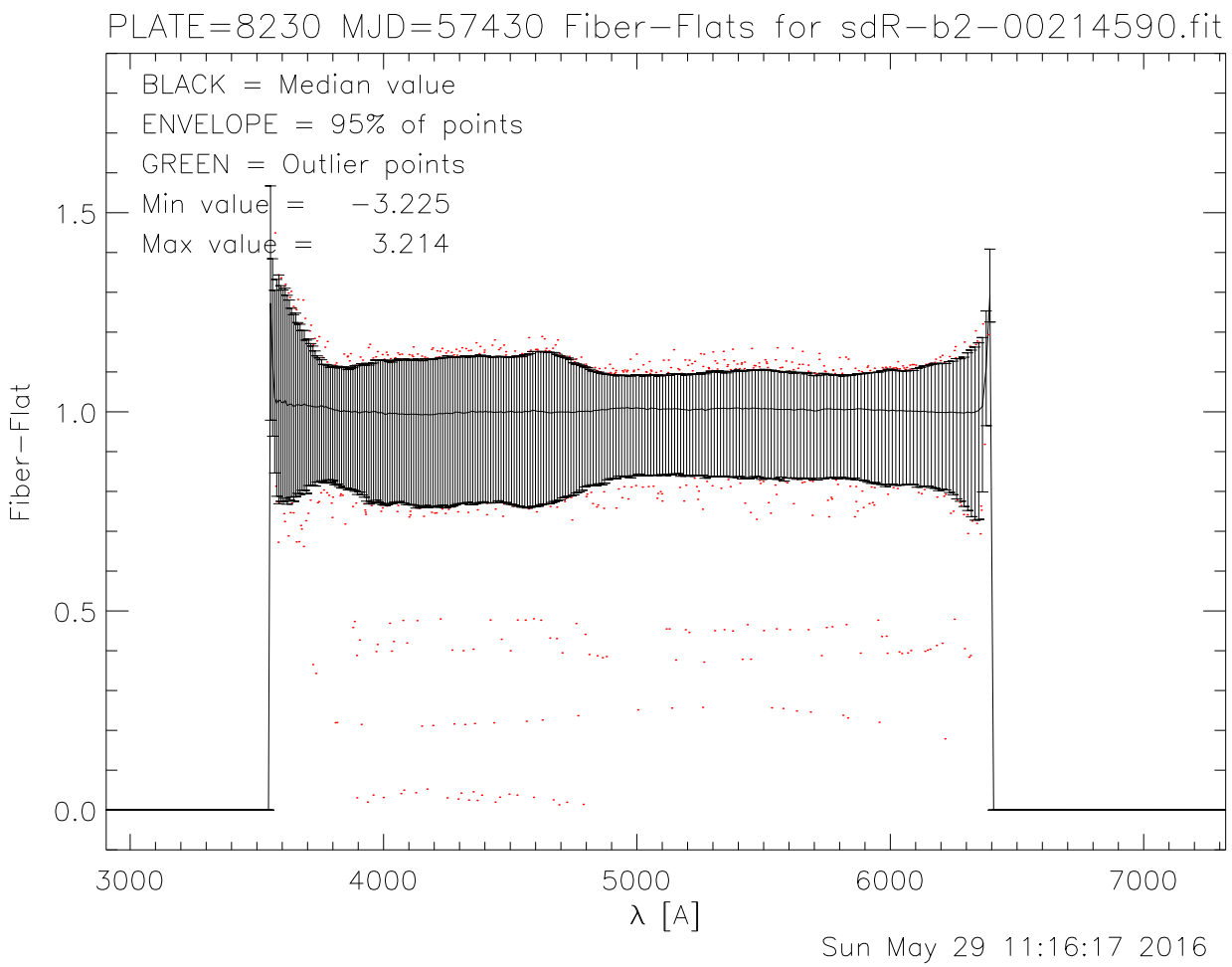

PLATE=8230 MJD=57430 sdR-b2-00214592.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
5570
5575
5580
5585
5590
λ [A]

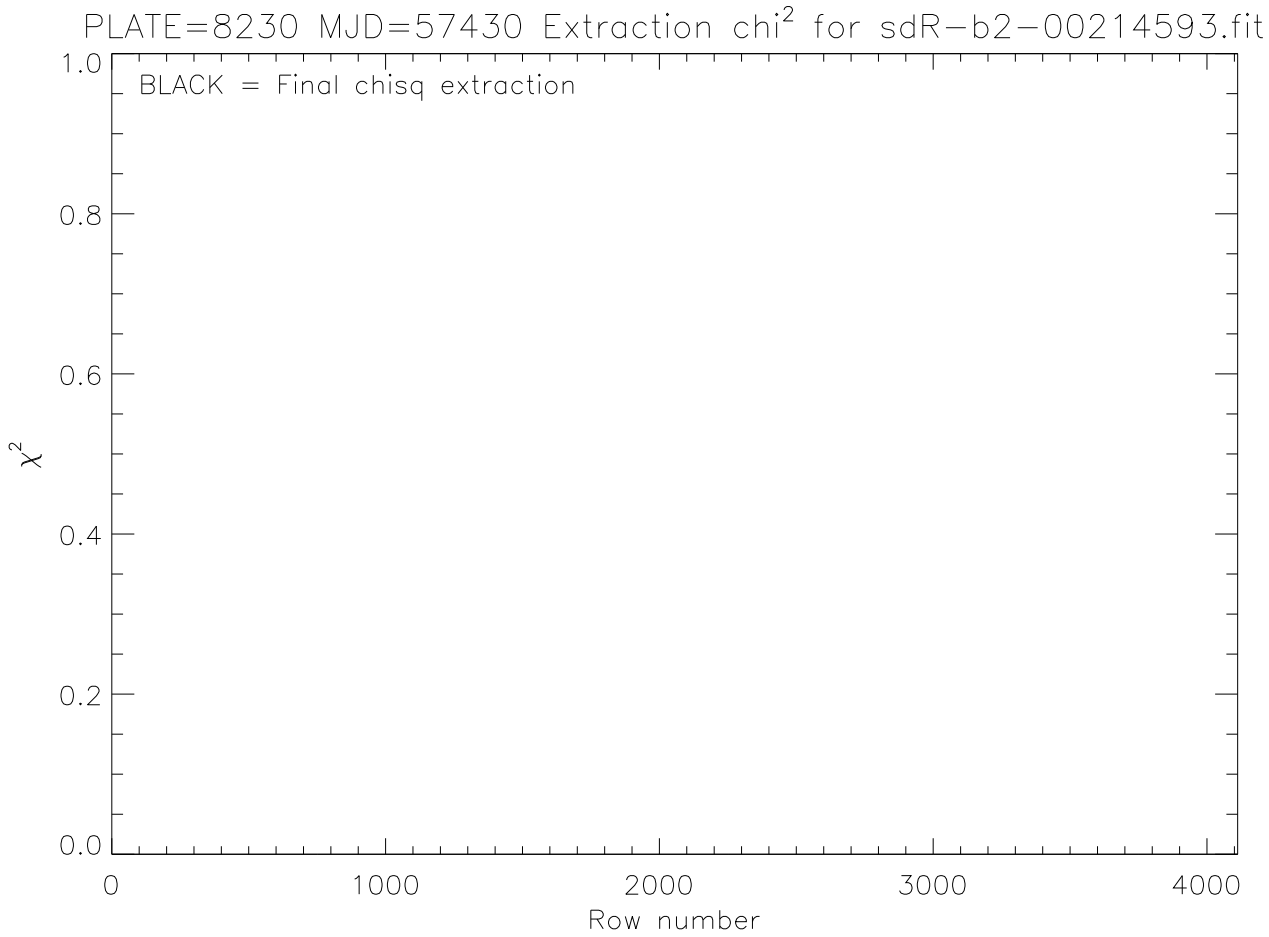
Number of sky fibers = 35

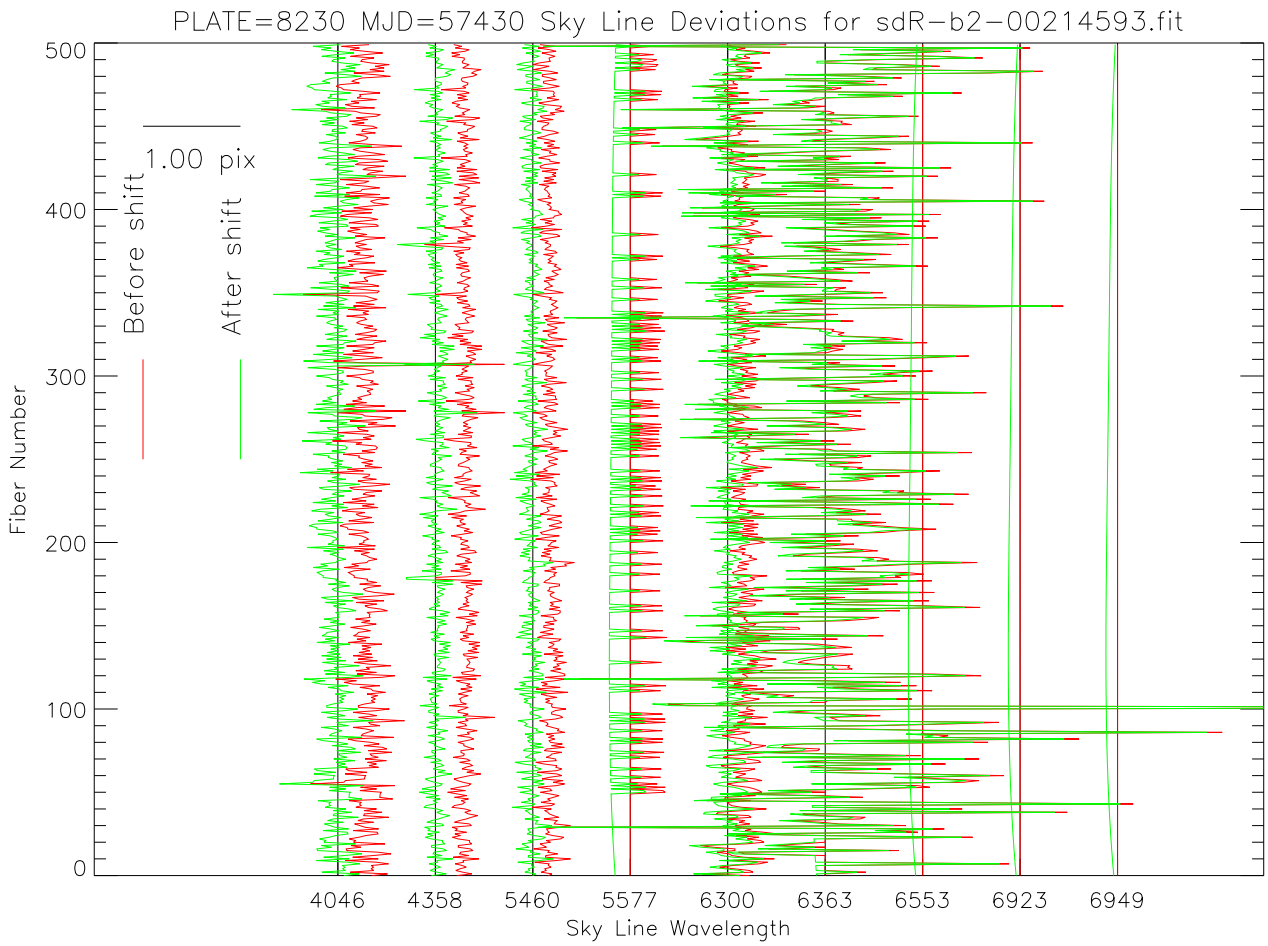


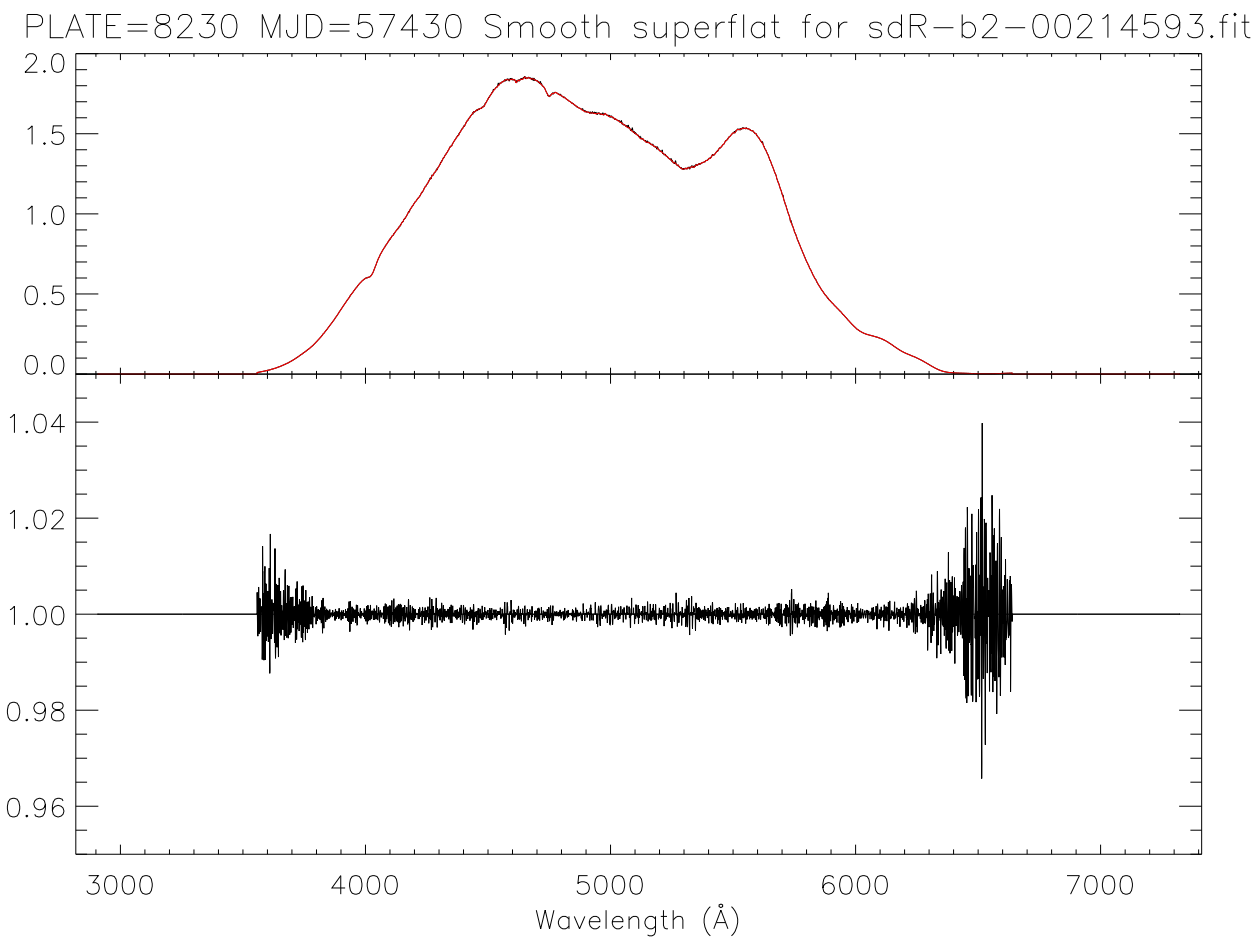

PLATE=8230 MJD=57430 sdR-b2-00214592.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 10.00 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

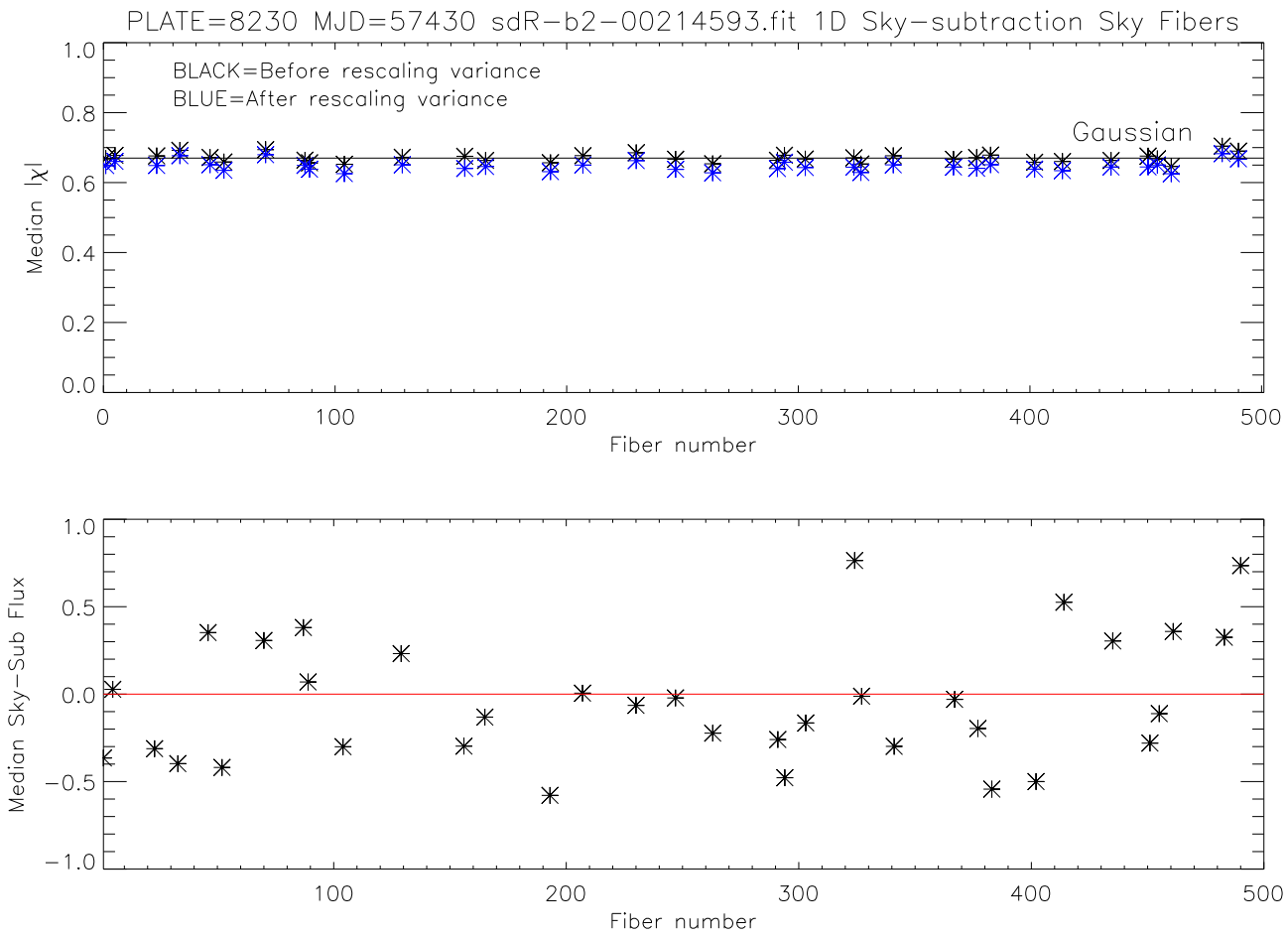

PLATE=8230 MJD=57430 sdR-b2-00214592.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 37.80 %
Fiber number
Focal Distance [mm]
Airmass

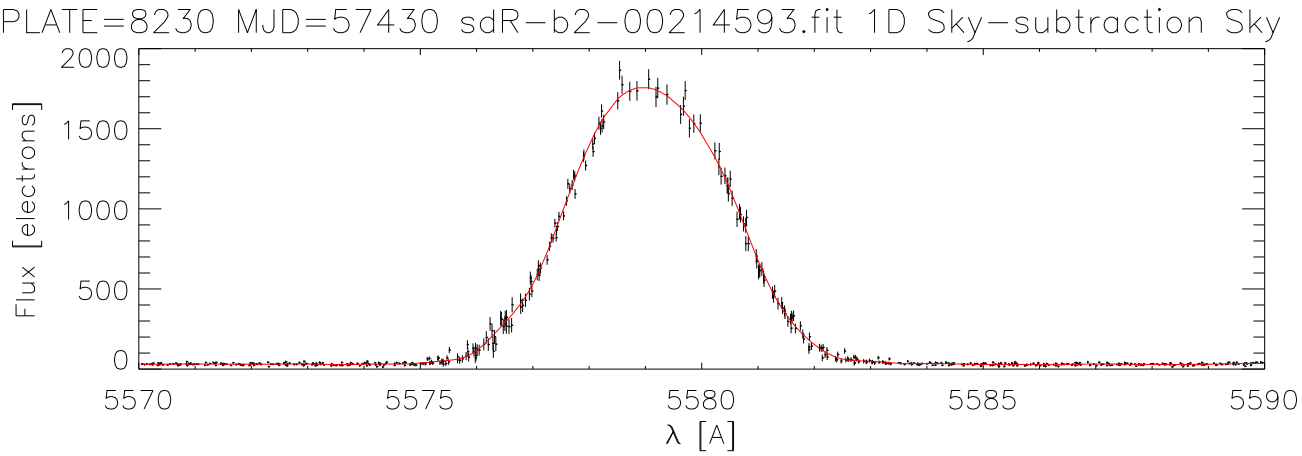

PLATE=8230 MJD=57430 Fiber−Flats for sdR−b2−00214590.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −3.225
Max value = 3.214
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sun May 29 11:16:17 2016

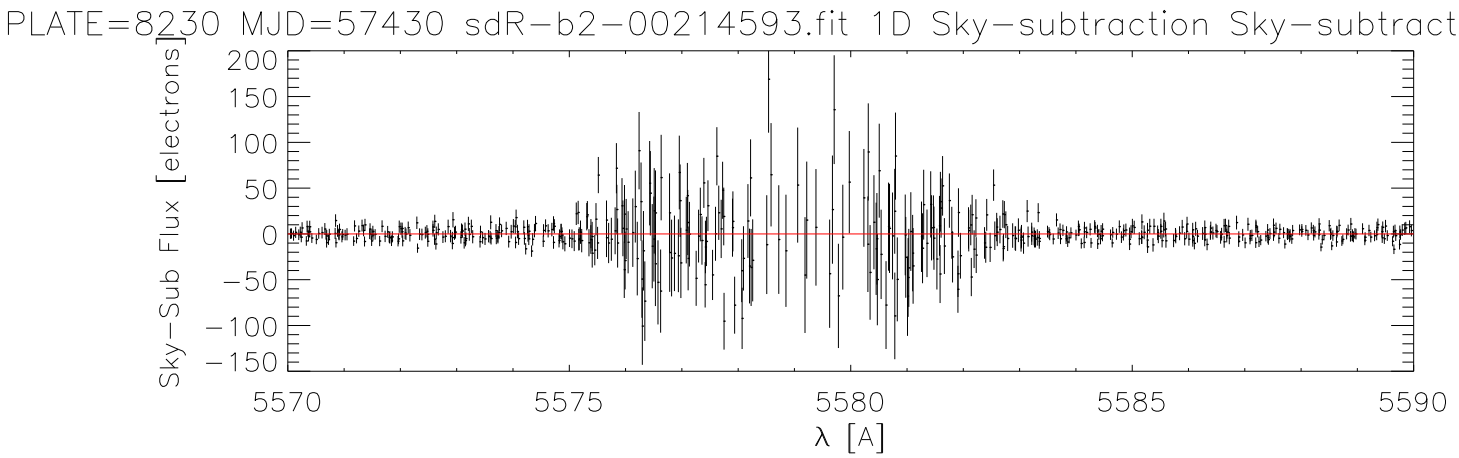

PLATE=8230 MJD=57430 Extraction chi^2 for sdR-b2-00214593.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=8230 MJD=57430 Sky Line Deviations for sdR-b2-00214593.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

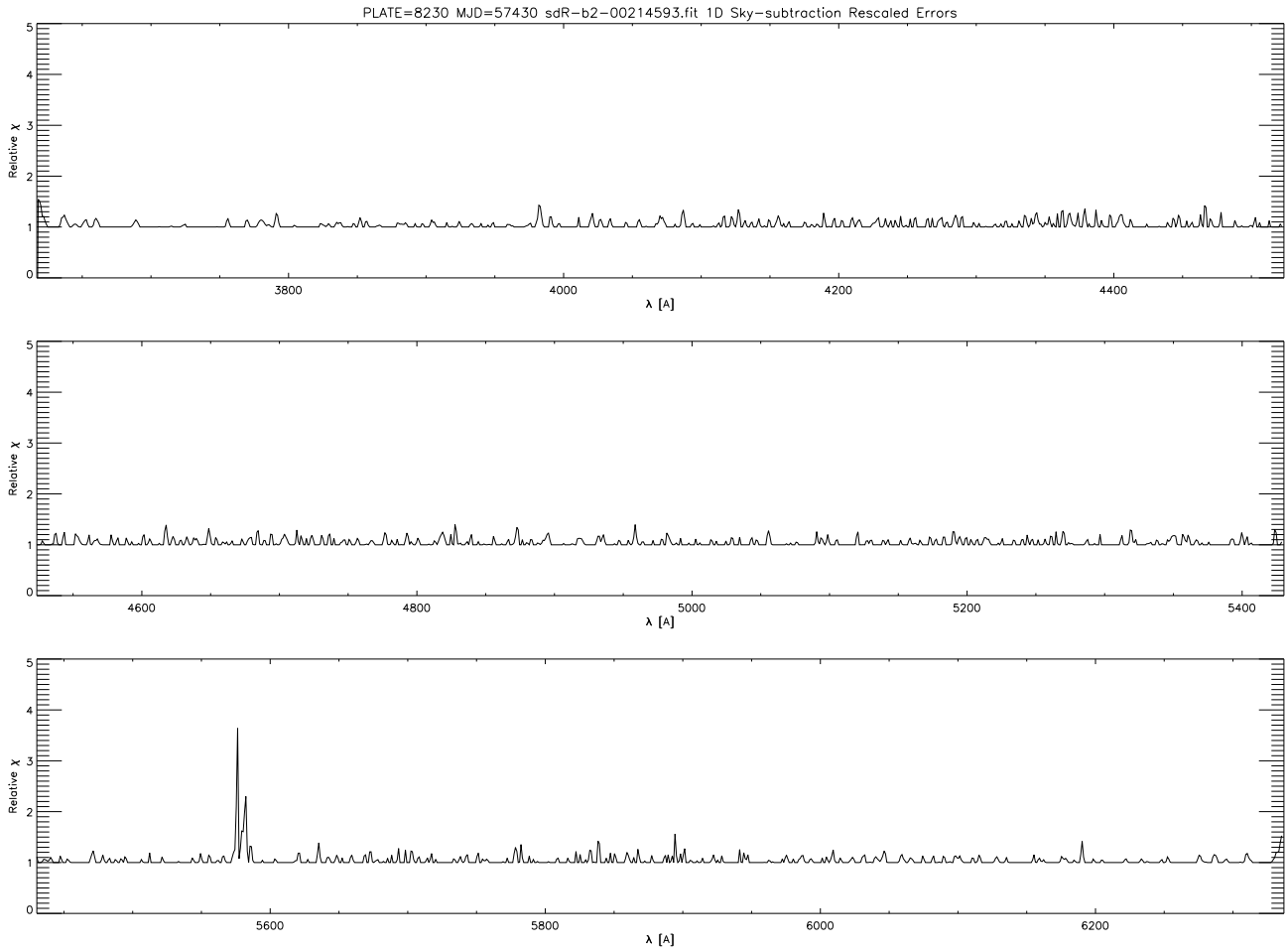

PLATE=8230 MJD=57430 Smooth superflat for sdR-b2-00214593.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

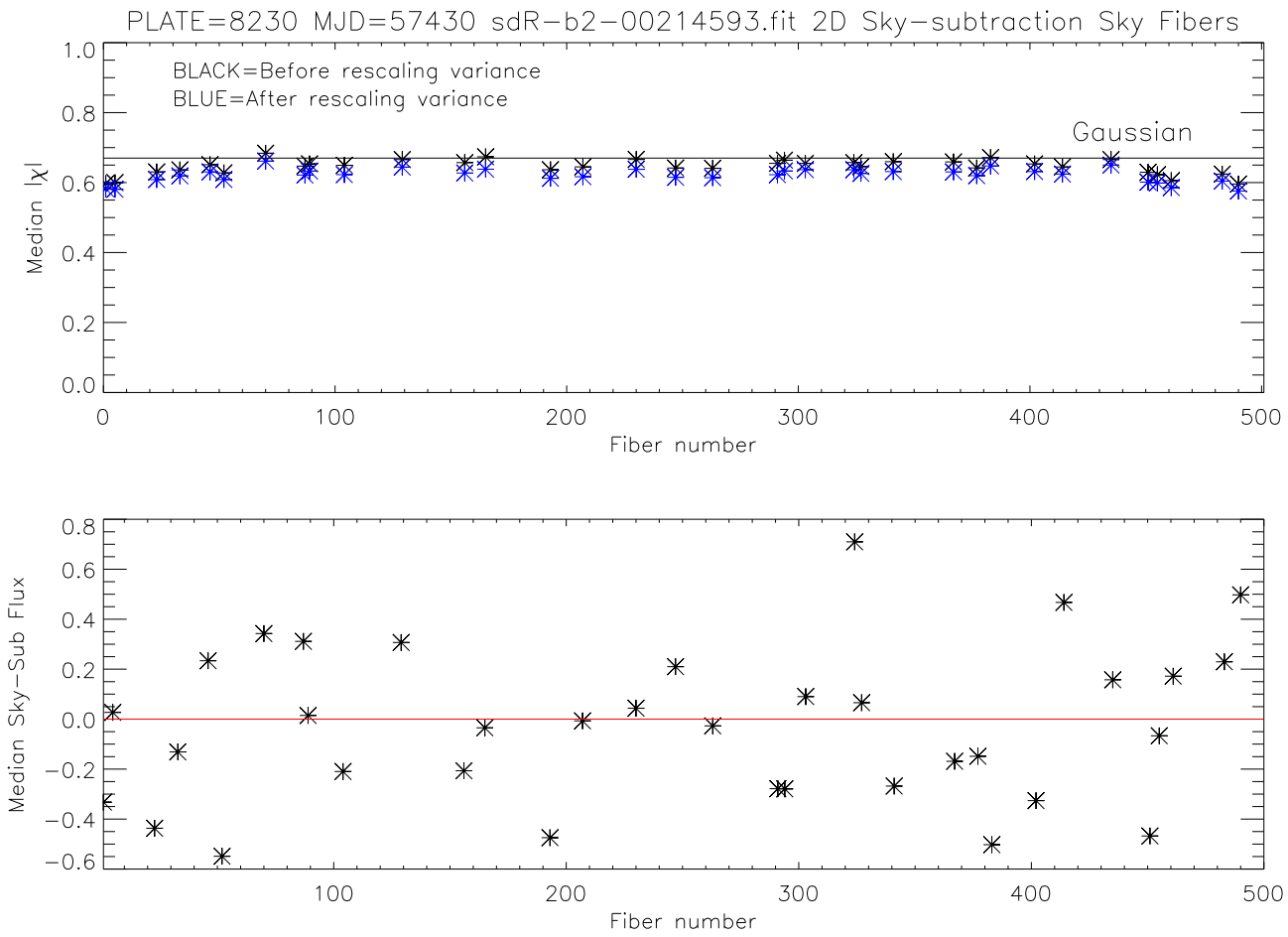

PLATE=8230 MJD=57430 sdR-b2-00214593.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

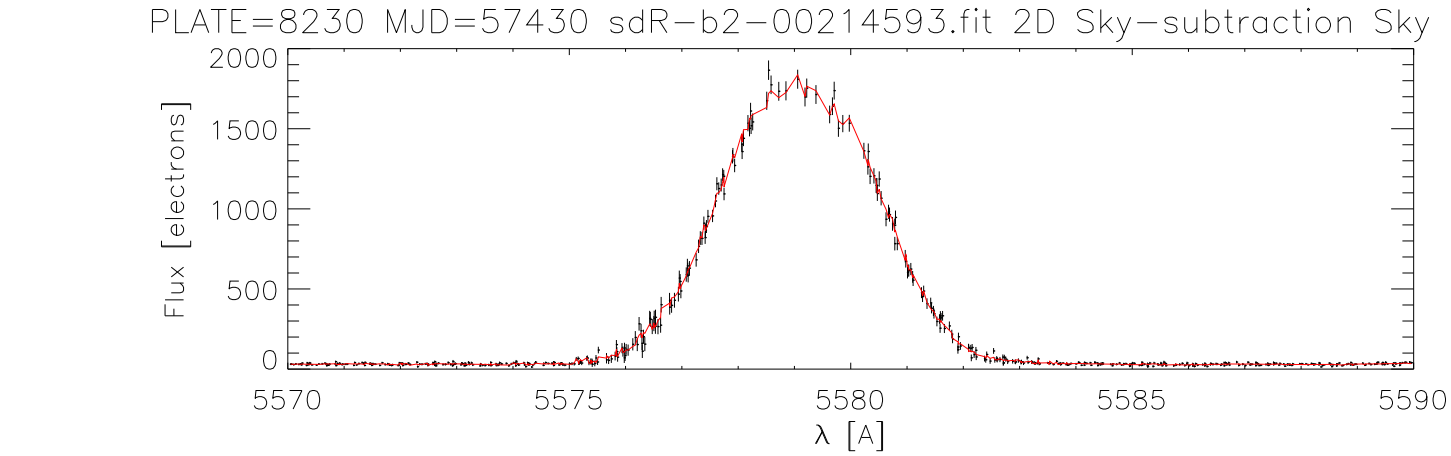

PLATE=8230 MJD=57430 sdR-b2-00214593.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

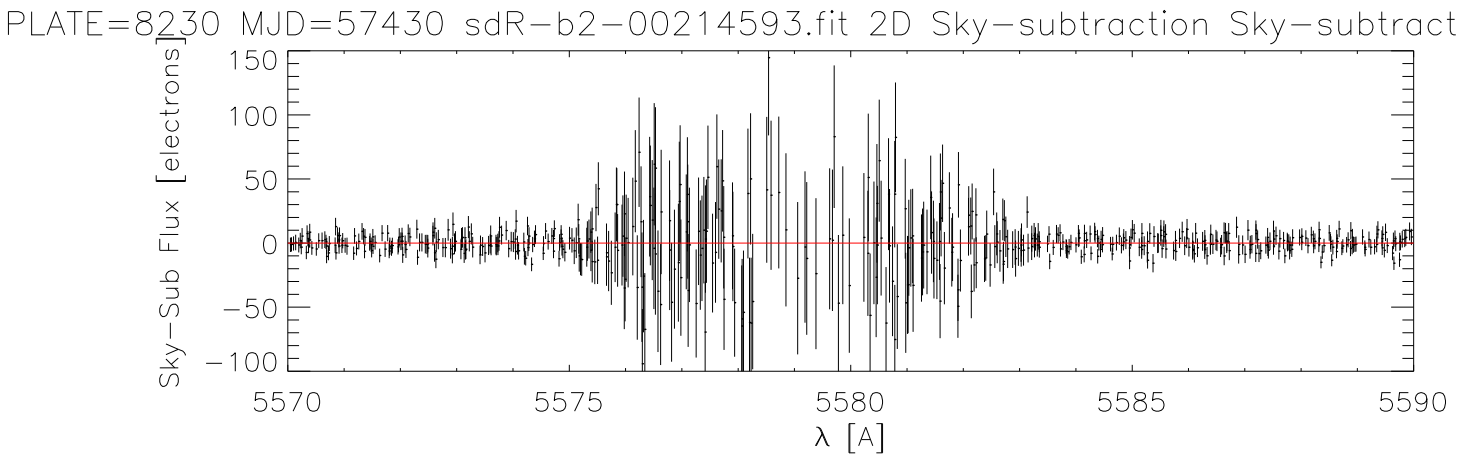

PLATE=8230 MJD=57430 sdR-b2-00214593.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
150
100
50
0
-50
-100
-150
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 35

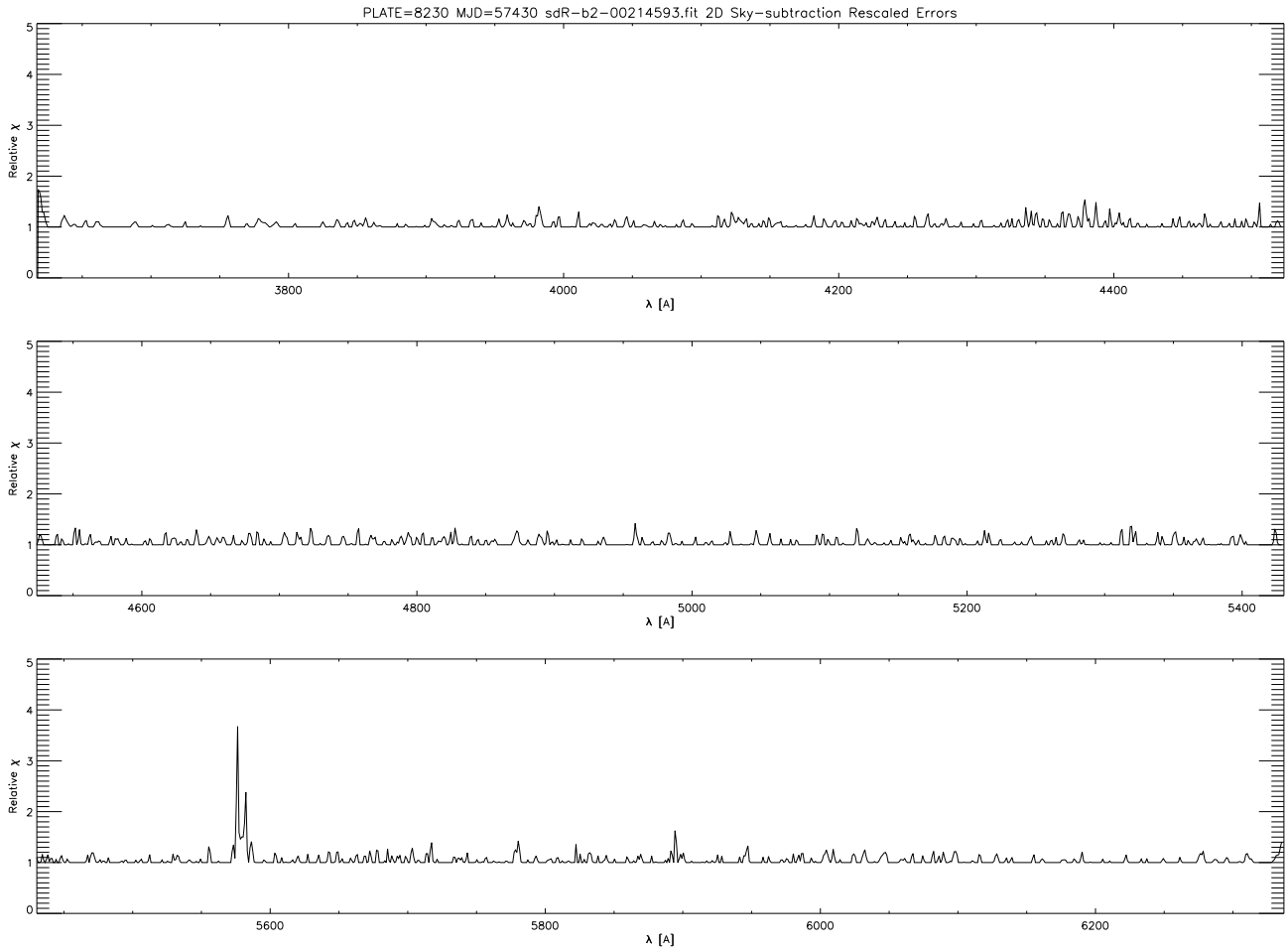


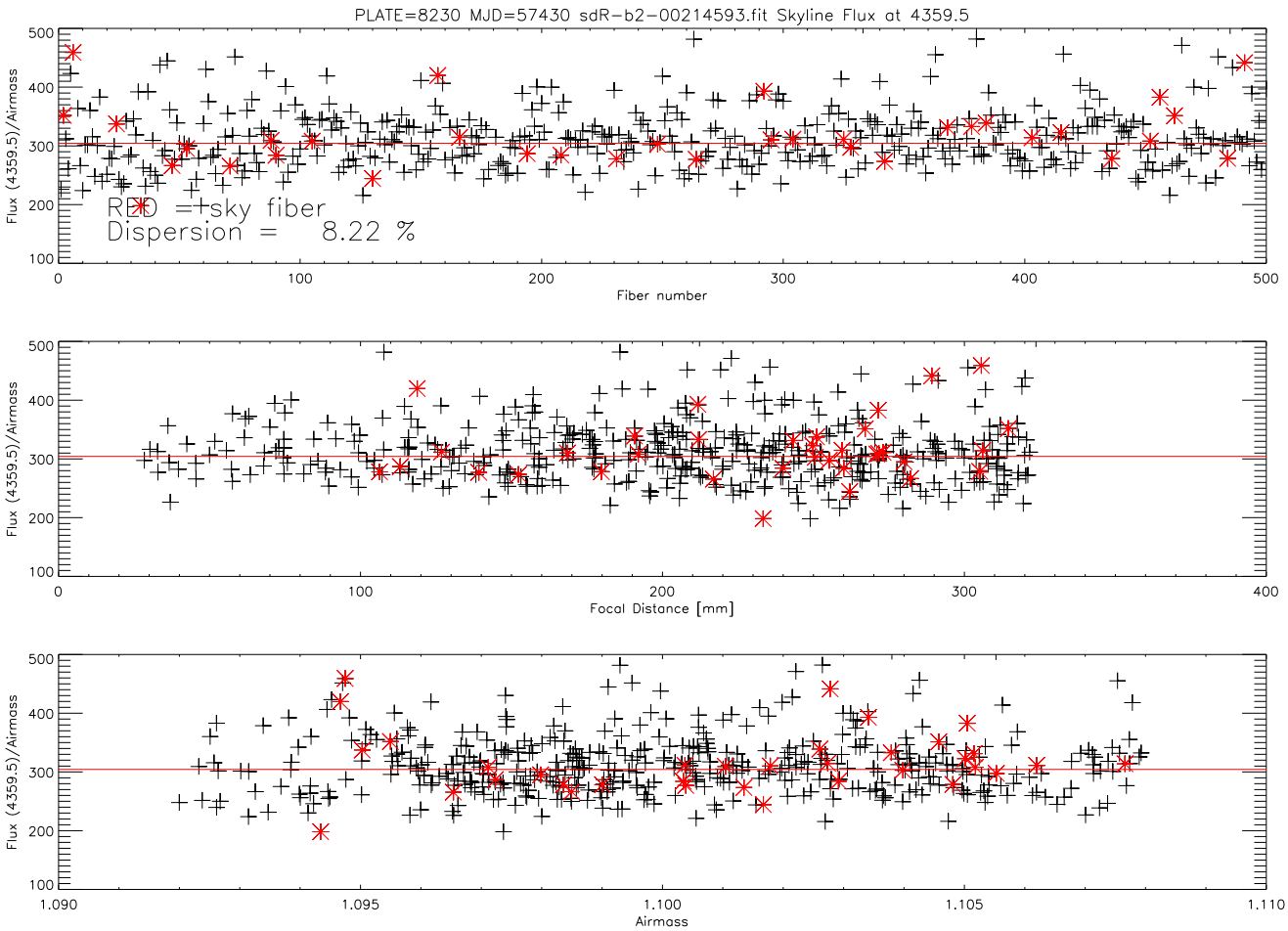

PLATE=8230 MJD=57430 sdR-b2-00214593.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

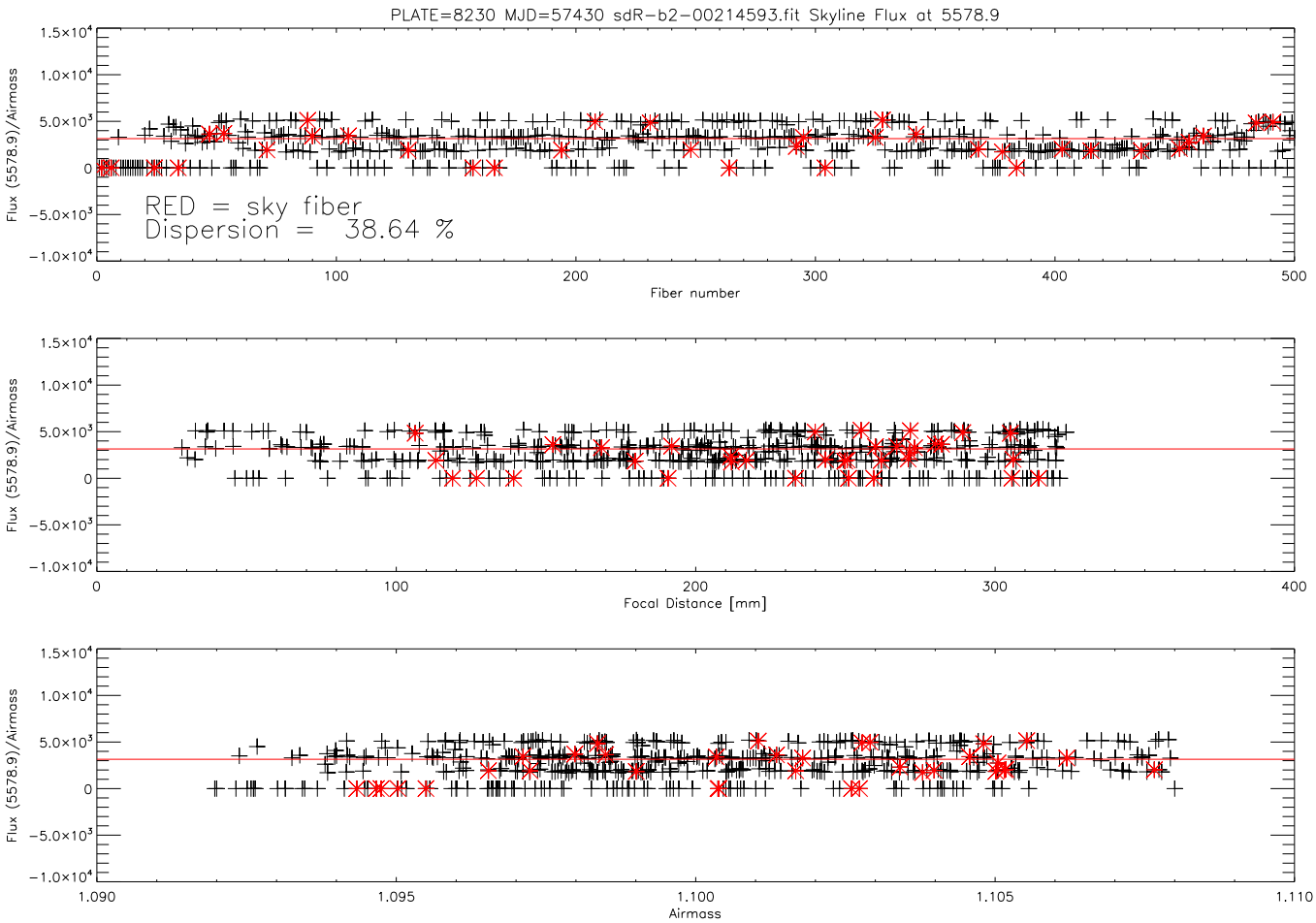

PLATE=8230 MJD=57430 sdR-b2-00214593.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

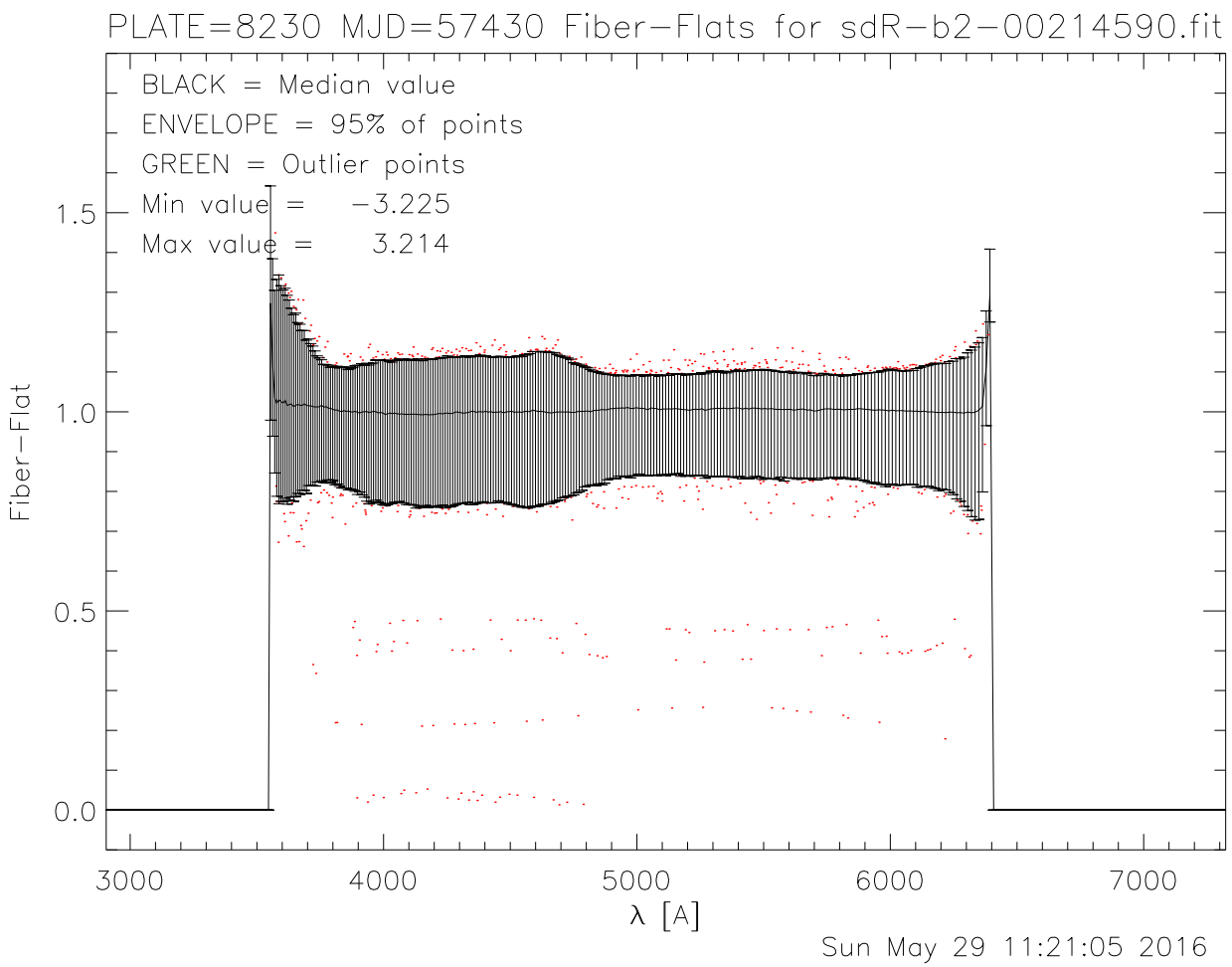

PLATE=8230 MJD=57430 sdR-b2-00214593.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
5570
5575
5580
5585
5590
λ [A]

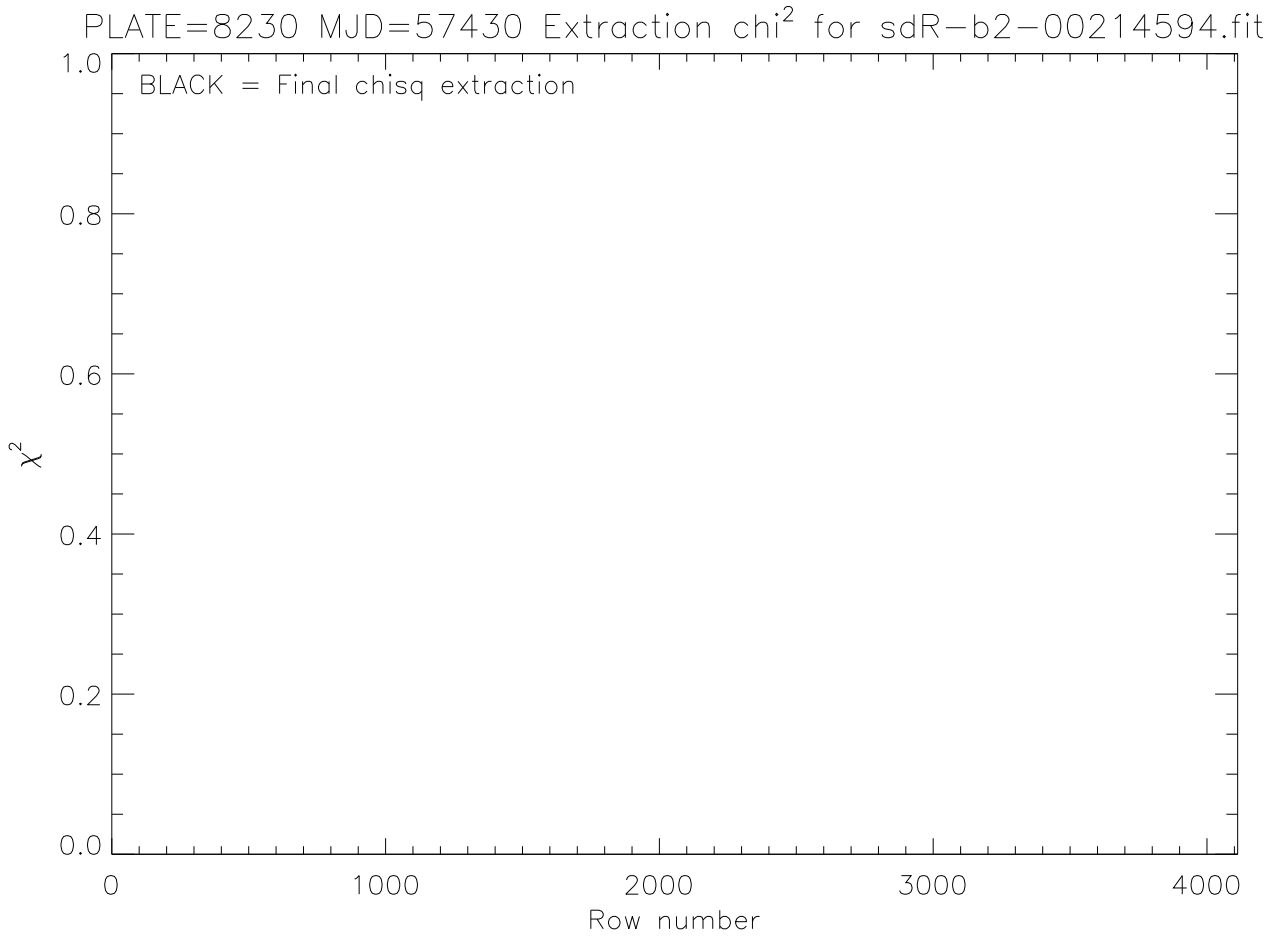
Number of sky fibers = 35

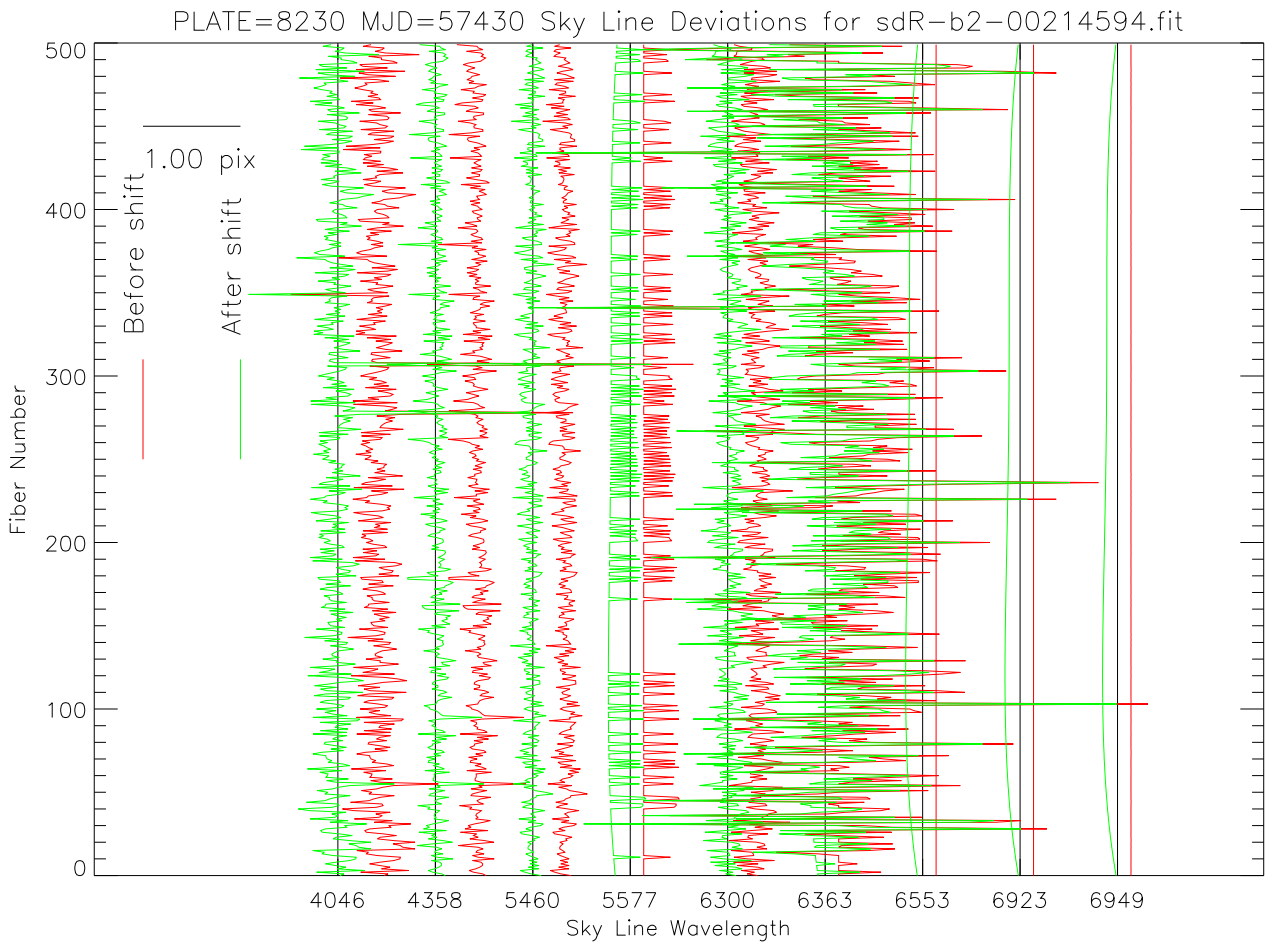


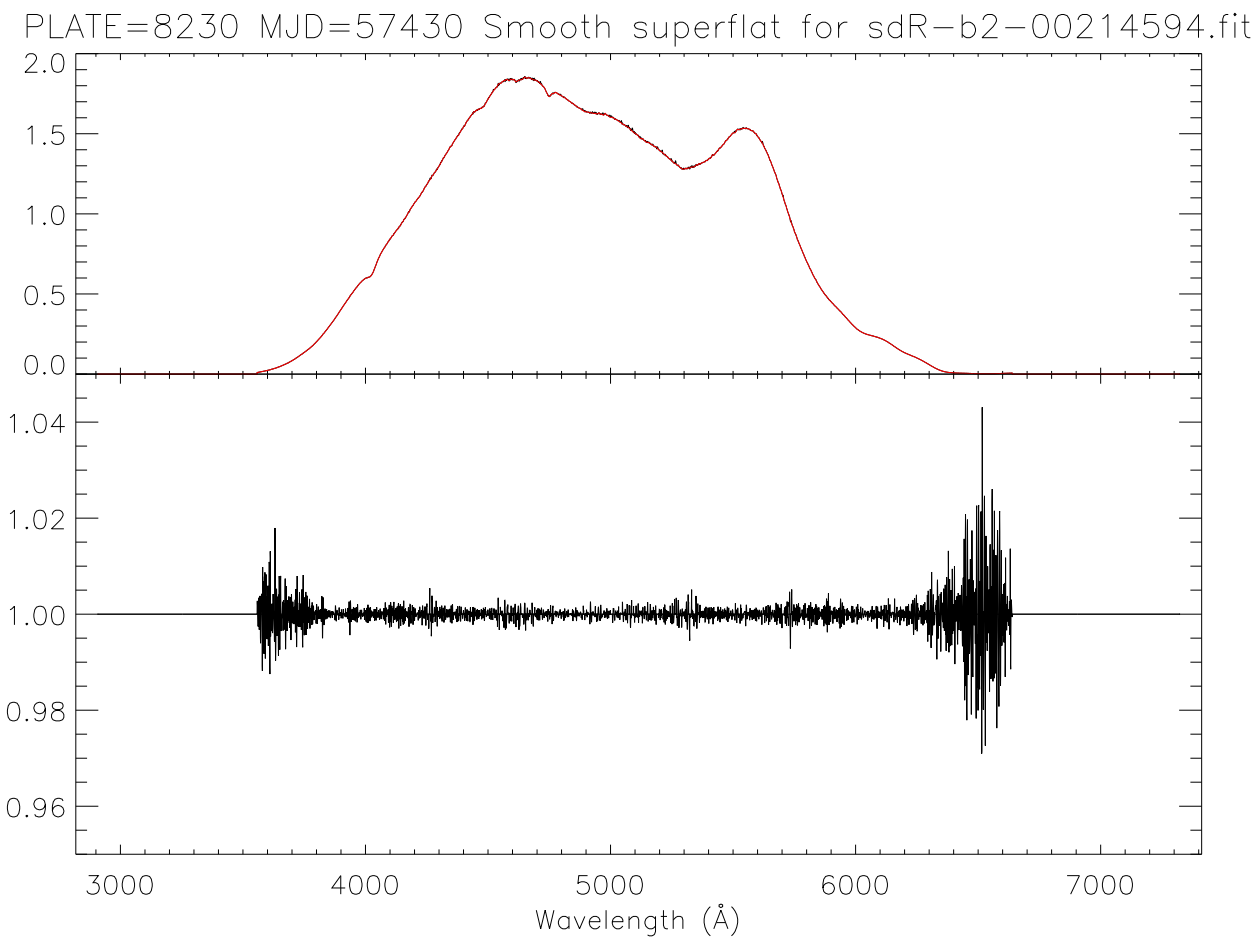

PLATE=8230 MJD=57430 sdR-b2-00214593.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED =+sky fiber
Dispersion = 8.22 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

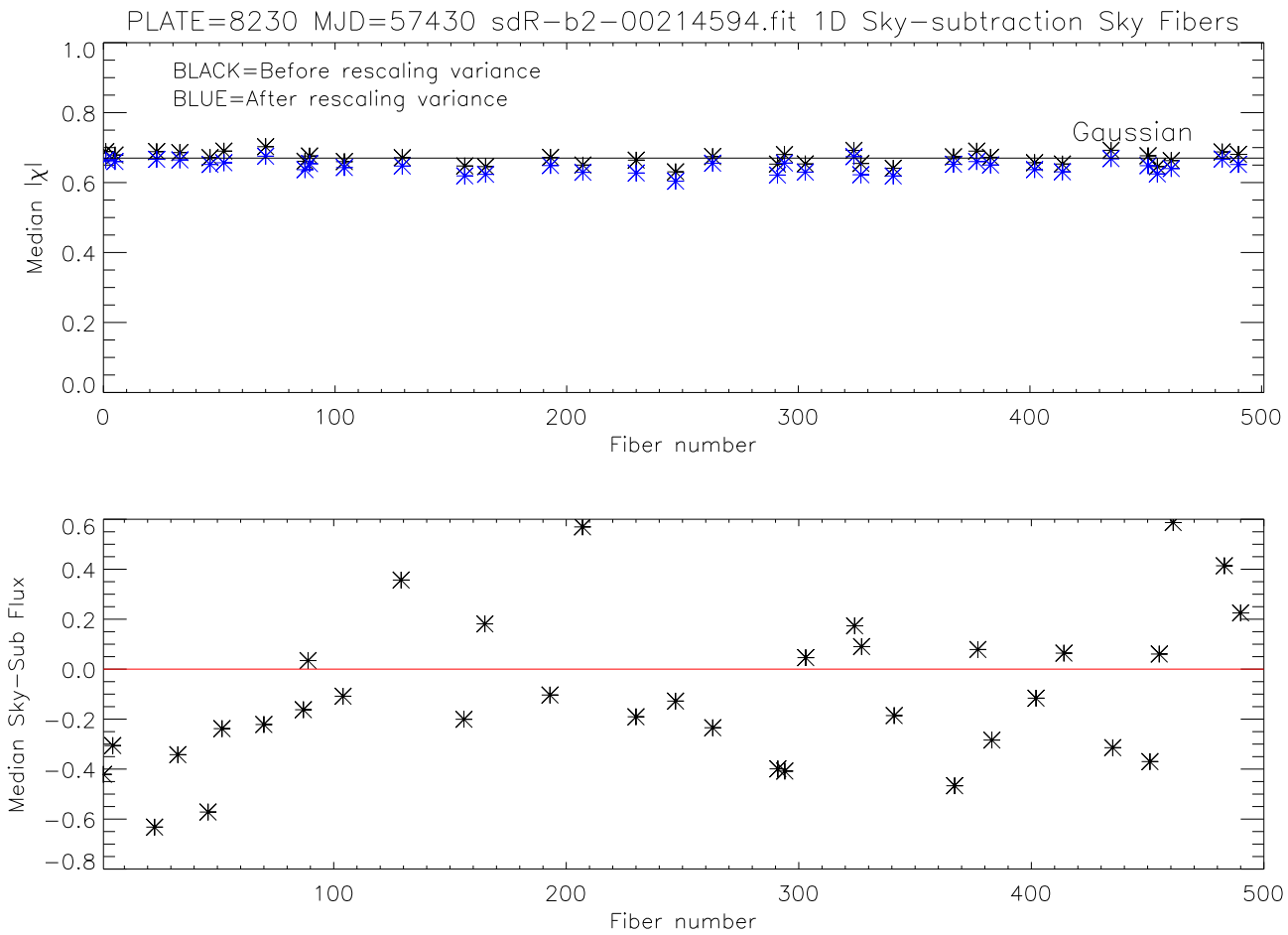

PLATE=8230 MJD=57430 sdR-b2-00214593.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 38.64 %
Fiber number
Focal Distance [mm]
Airmass

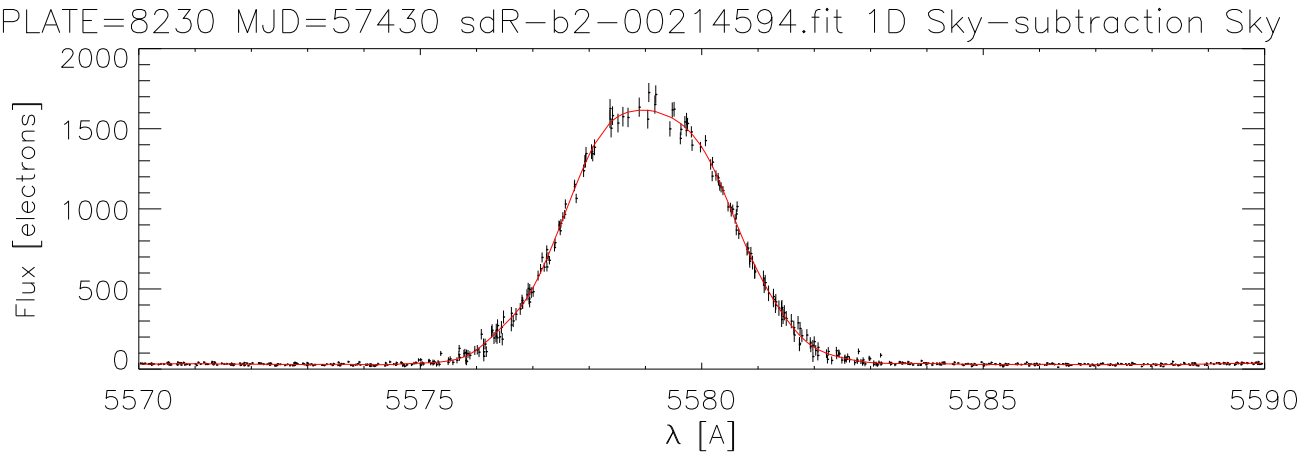

PLATE=8230 MJD=57430 Fiber−Flats for sdR−b2−00214590.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −3.225
Max value = 3.214
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sun May 29 11:21:05 2016

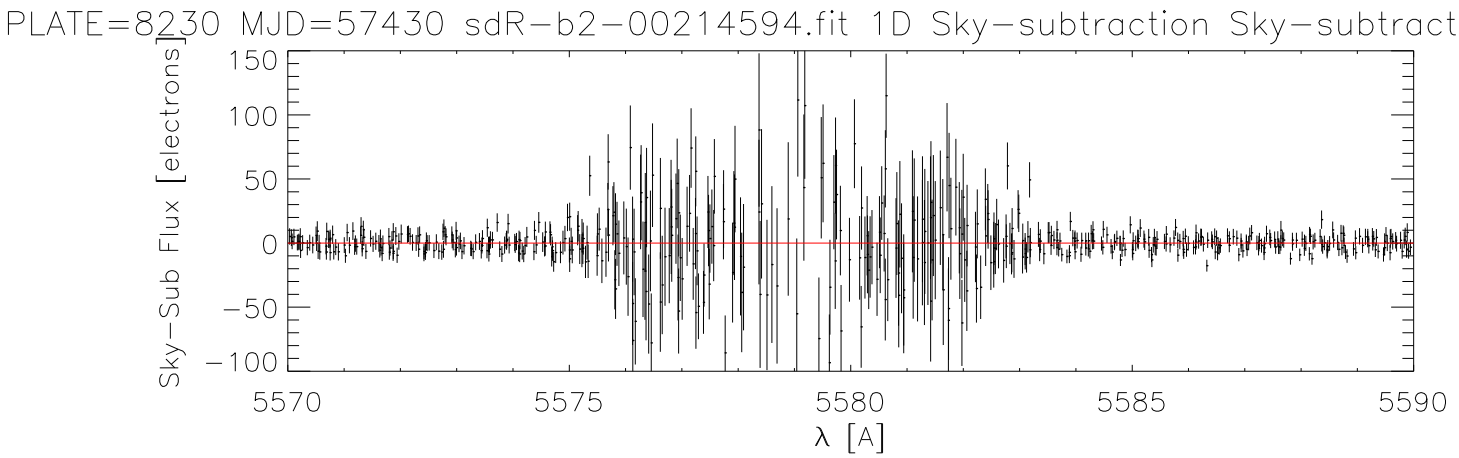

PLATE=8230 MJD=57430 Extraction chi^2 for sdR−b2−00214594.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=8230 MJD=57430 Sky Line Deviations for sdR-b2-00214594.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

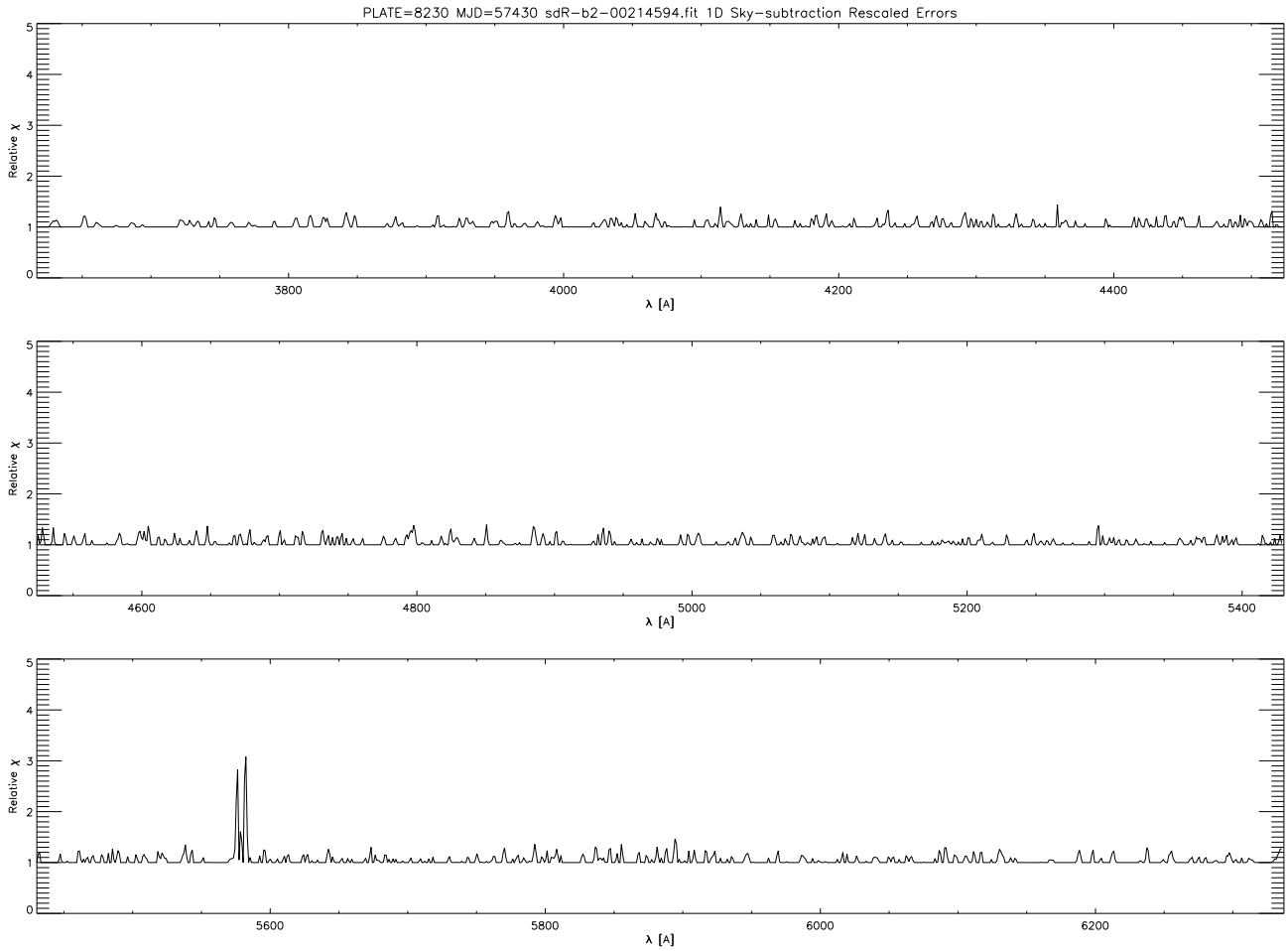

PLATE=8230 MJD=57430 Smooth superflat for sdR-b2-00214594.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

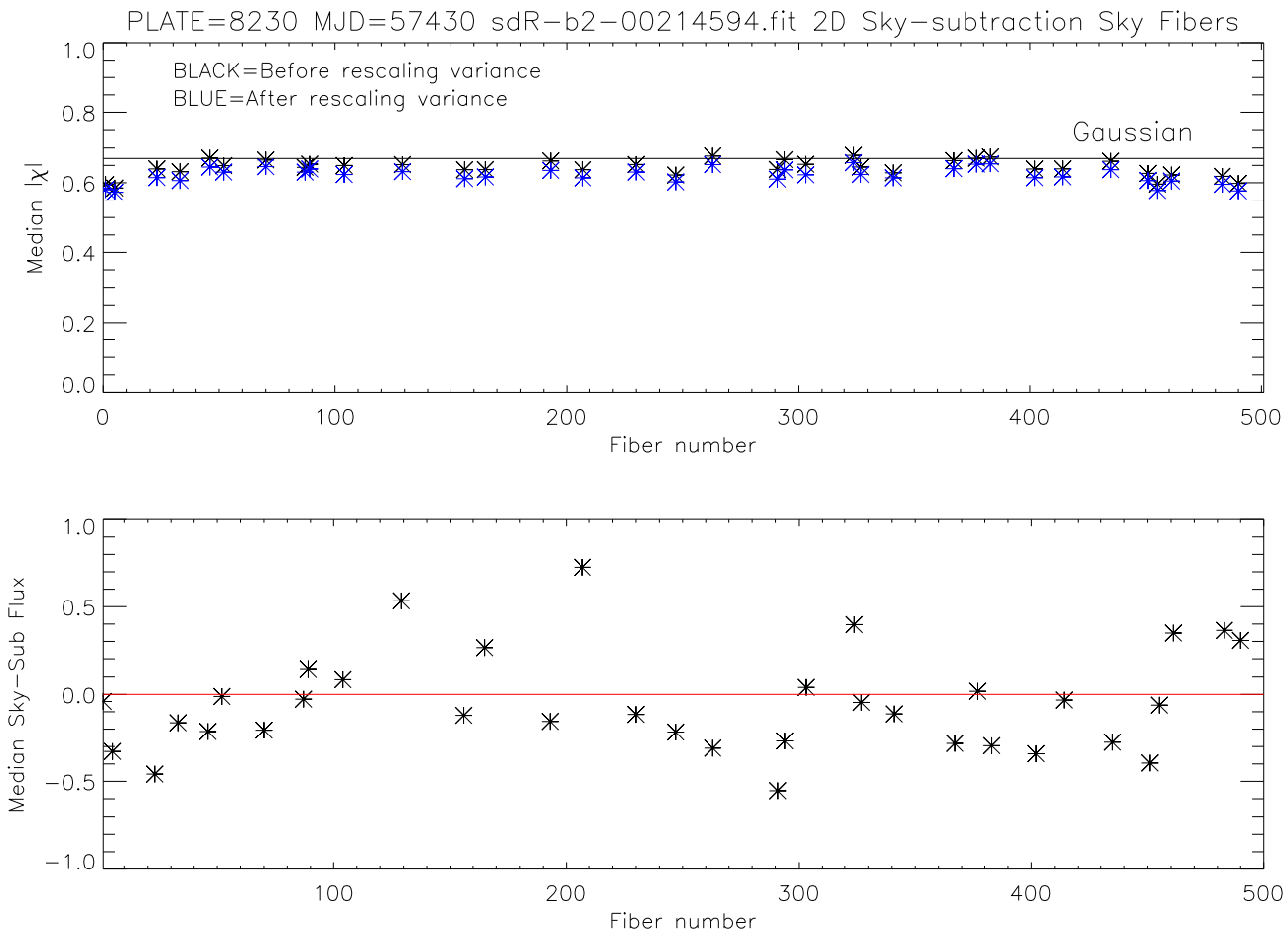

PLATE=8230 MJD=57430 sdR-b2-00214594.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

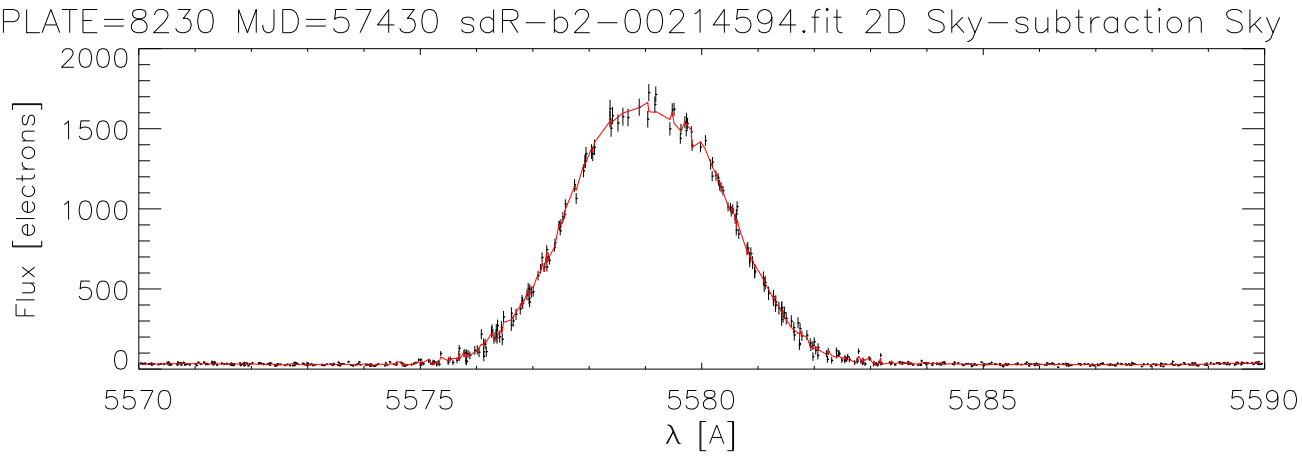

PLATE=8230 MJD=57430 sdR-b2-00214594.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

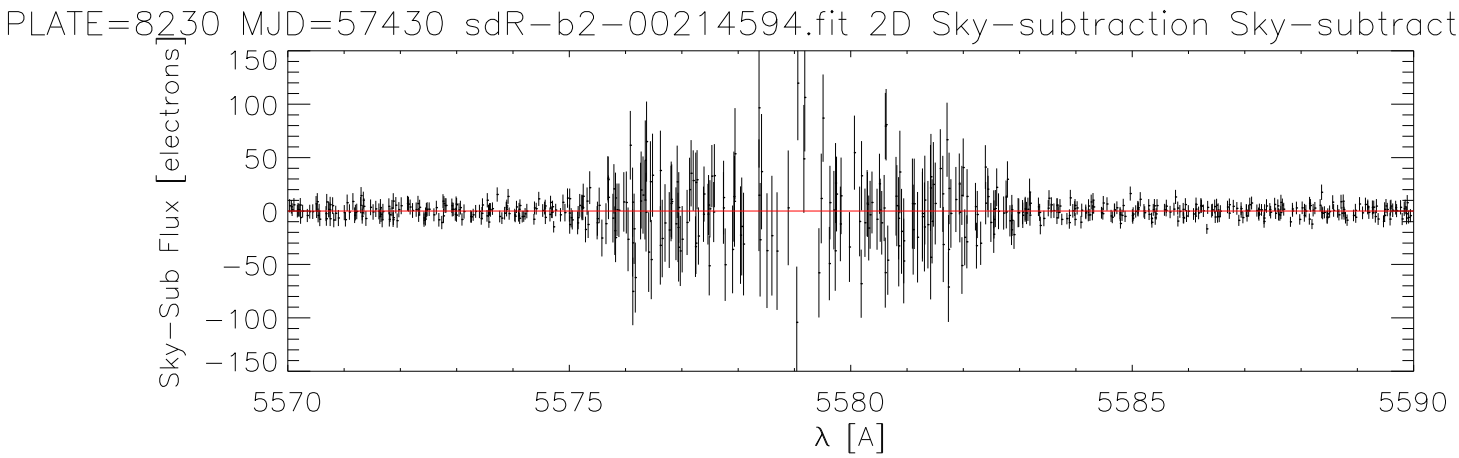

PLATE=8230 MJD=57430 sdR-b2-00214594.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 35

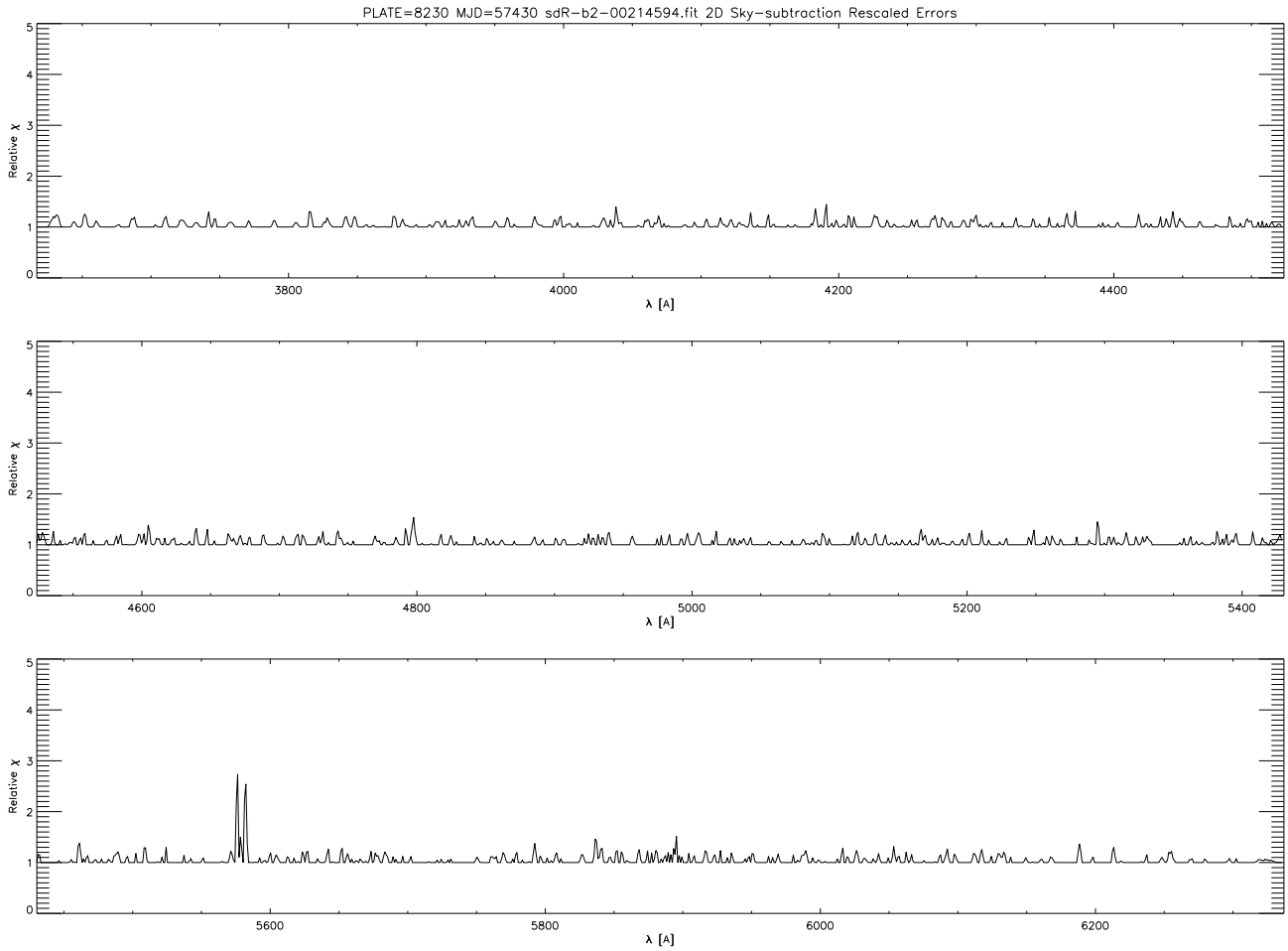


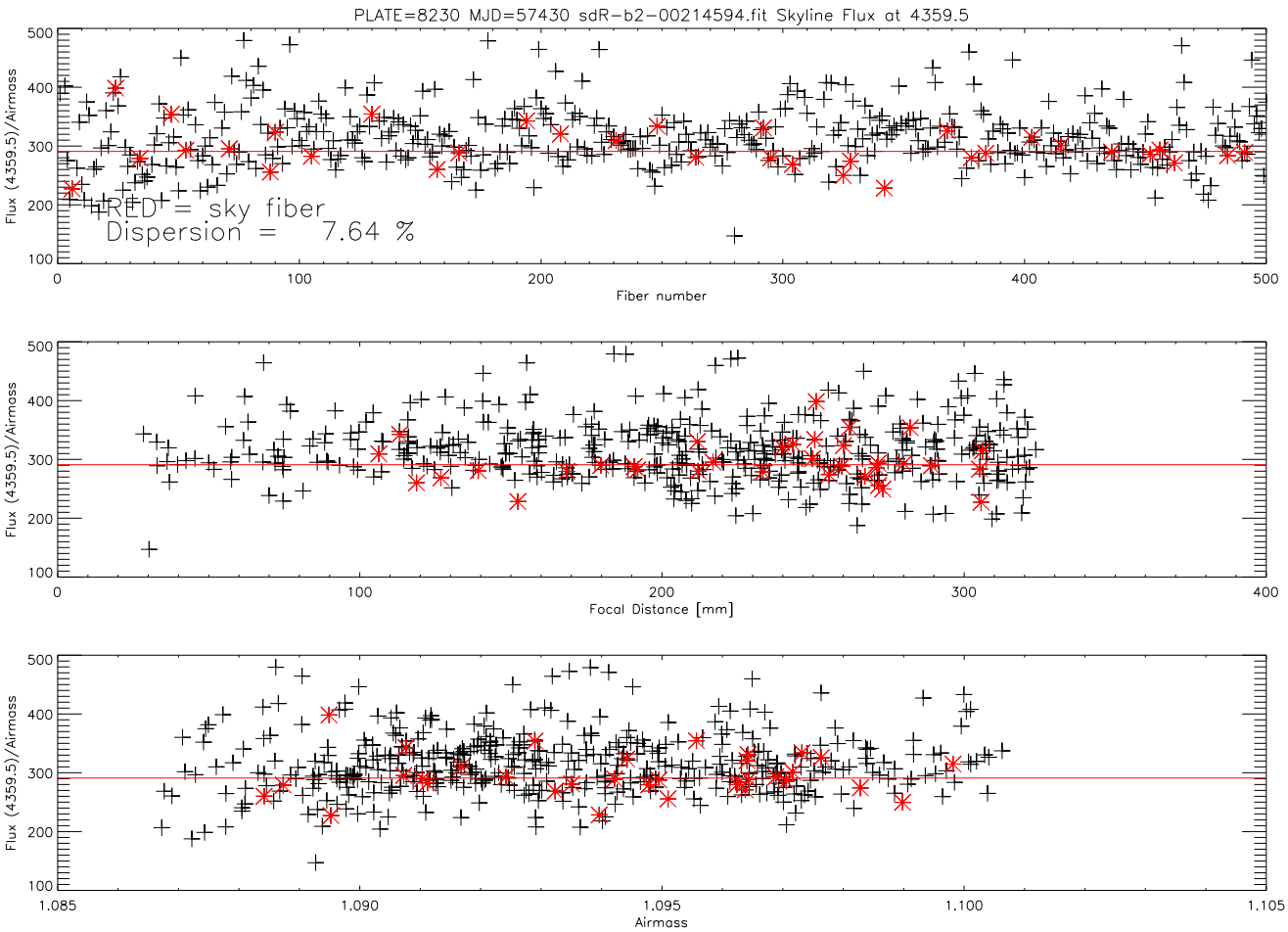

PLATE=8230 MJD=57430 sdR-b2-00214594.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

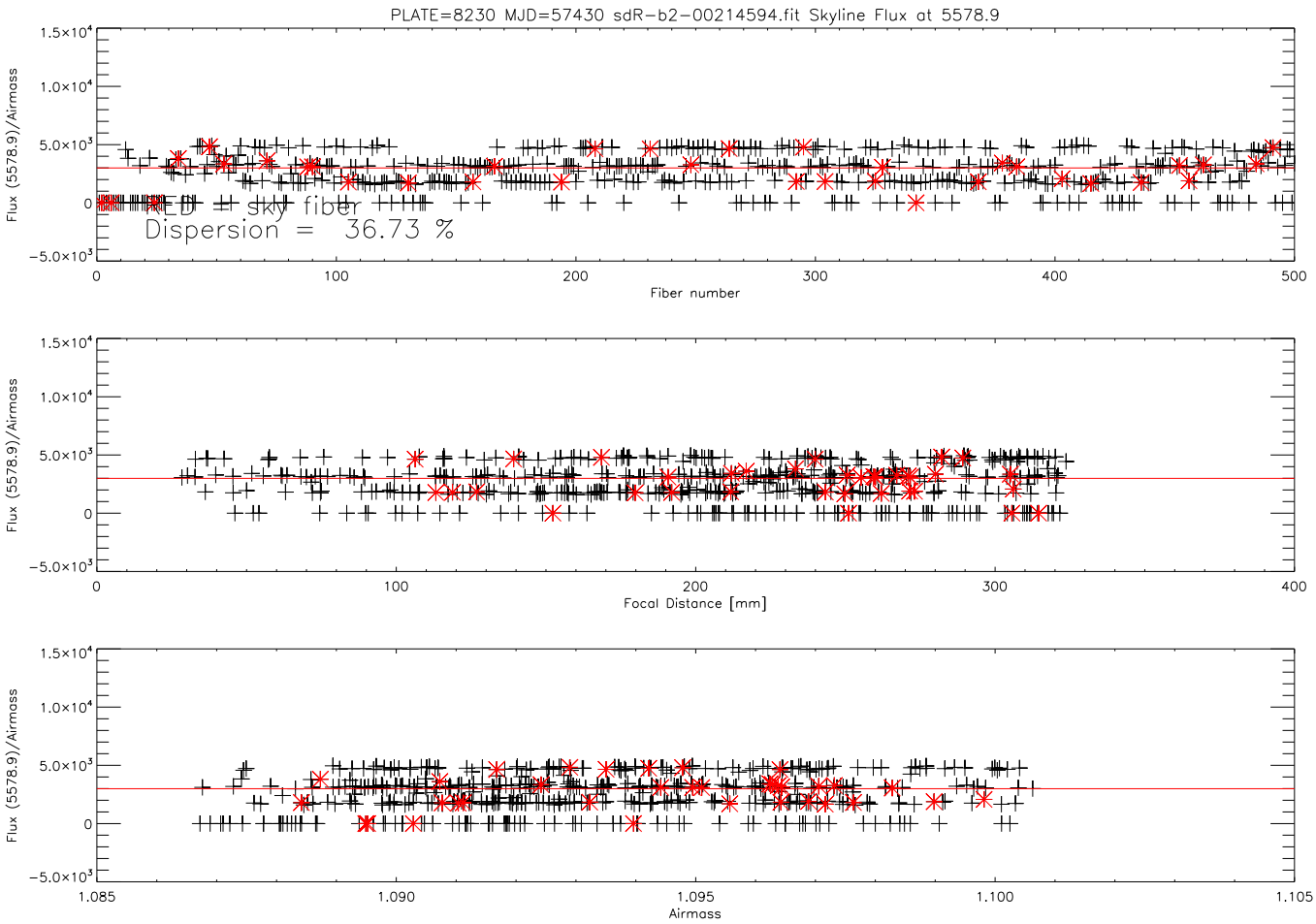

PLATE=8230 MJD=57430 sdR-b2-00214594.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

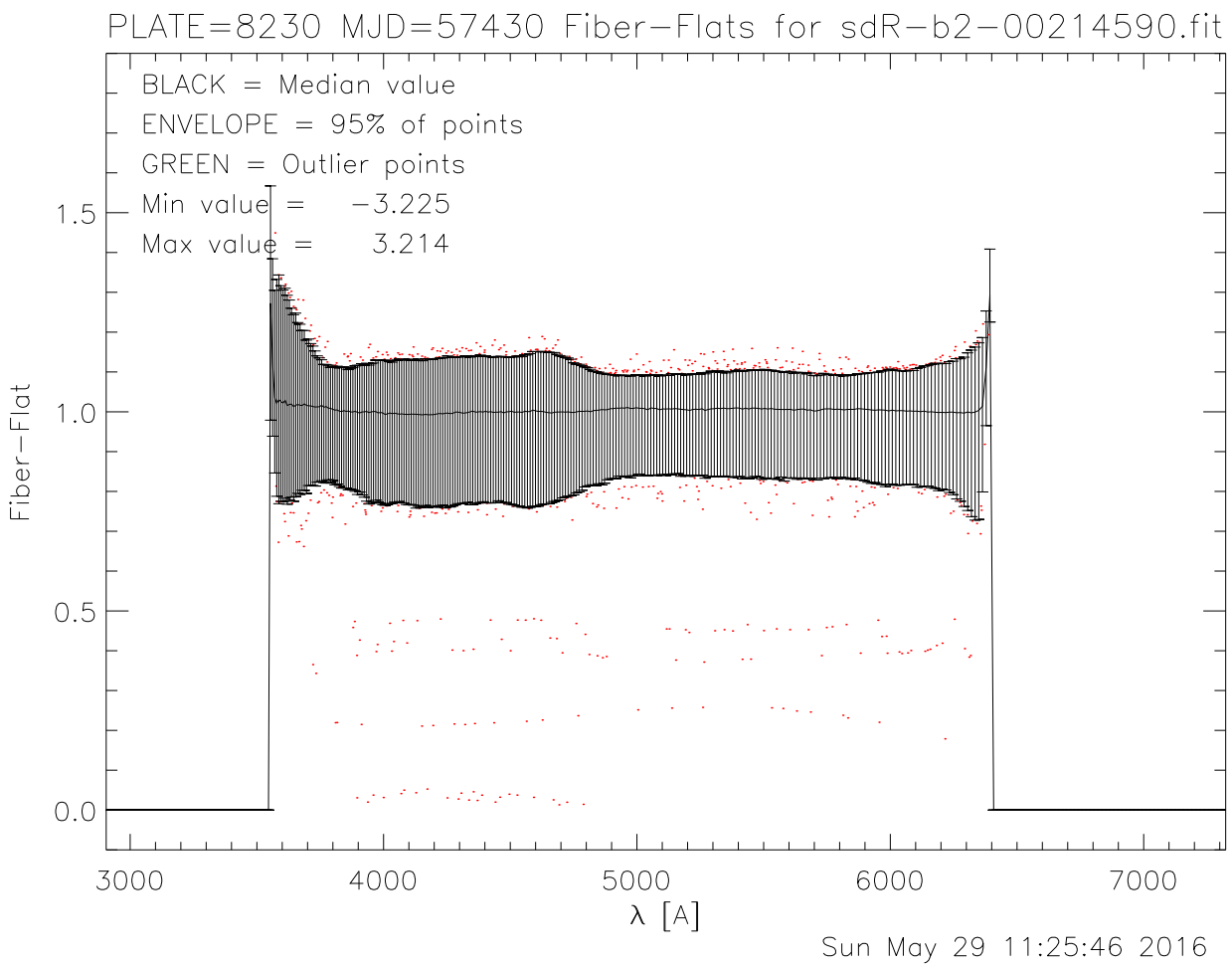

PLATE=8230 MJD=57430 sdR-b2-00214594.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
5570
5575
5580
5585
5590
λ [A]

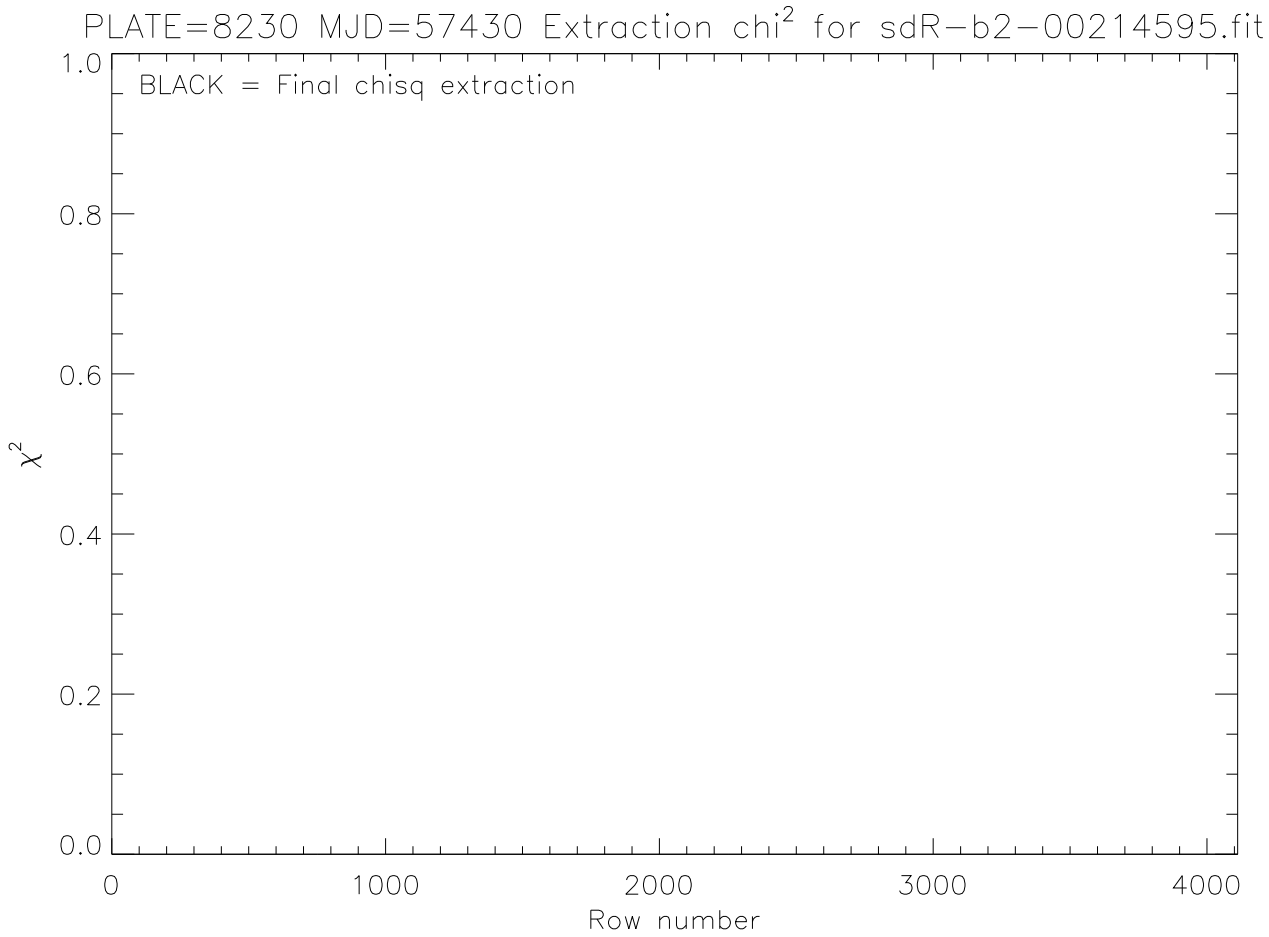
Number of sky fibers = 35

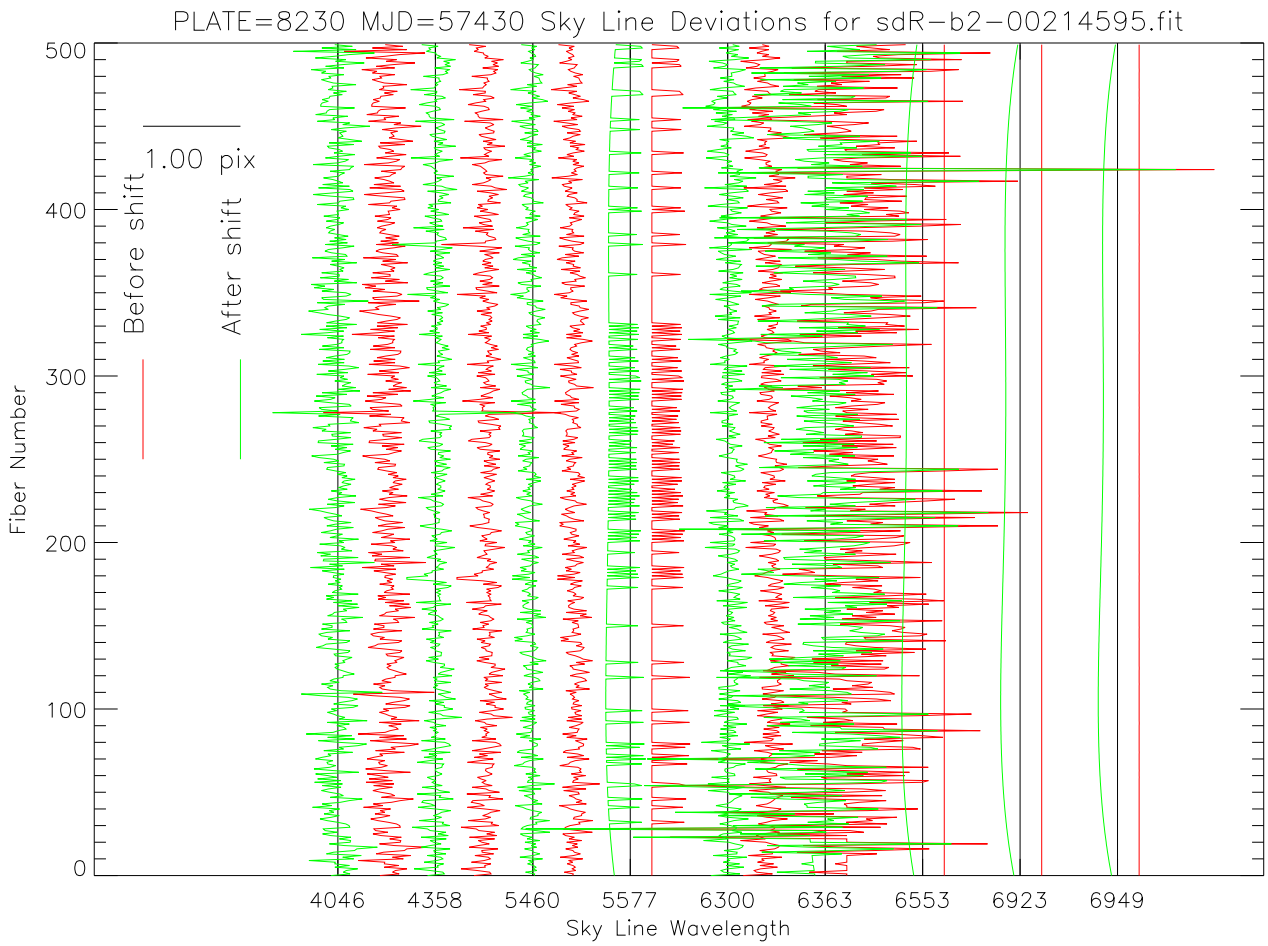


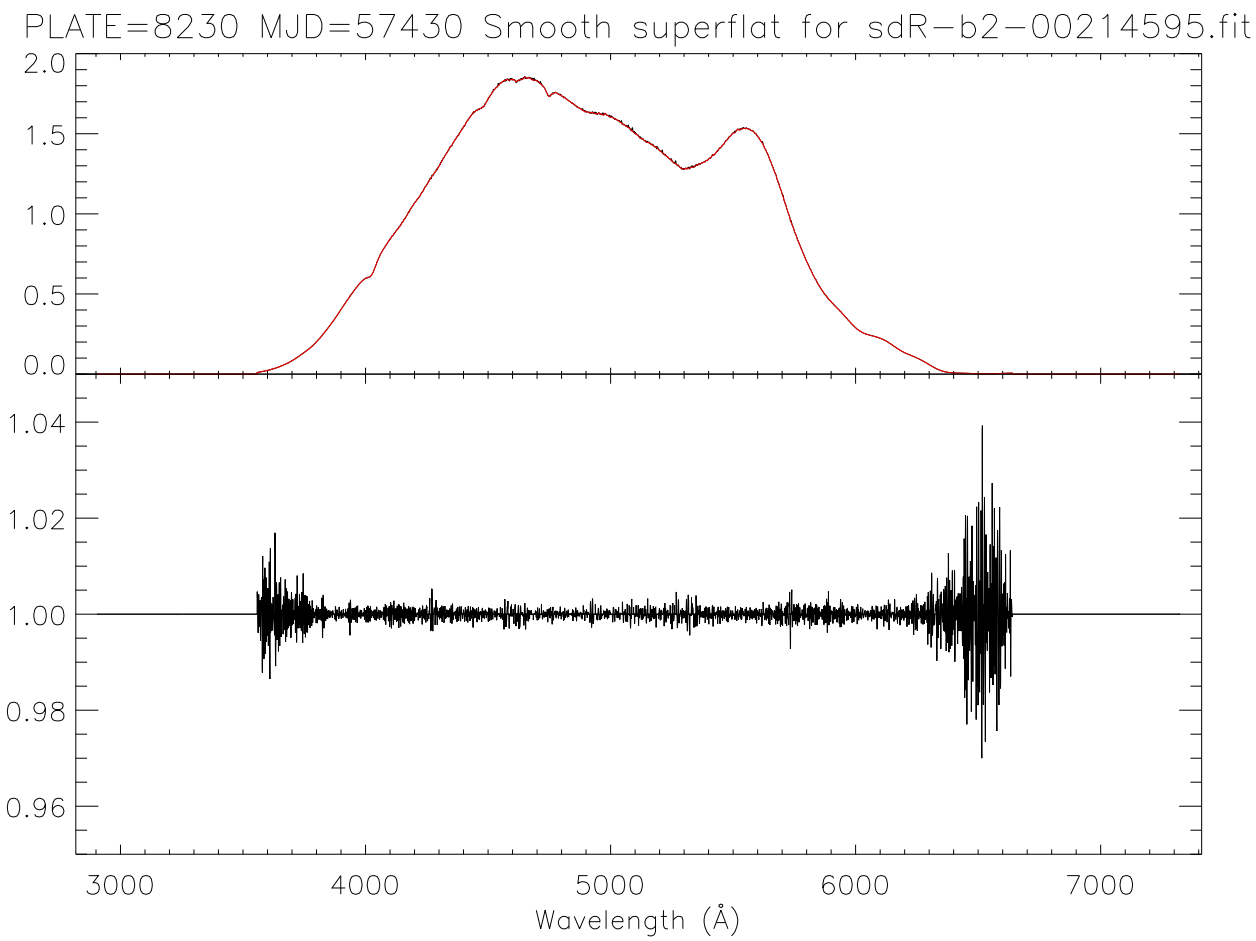

PLATE=8230 MJD=57430 sdR-b2-00214594.fit Skyline Flux at 4359.5
RED = sky fiber
Dispersion = 7.64 %
Flux (4359.5)/Airmass
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

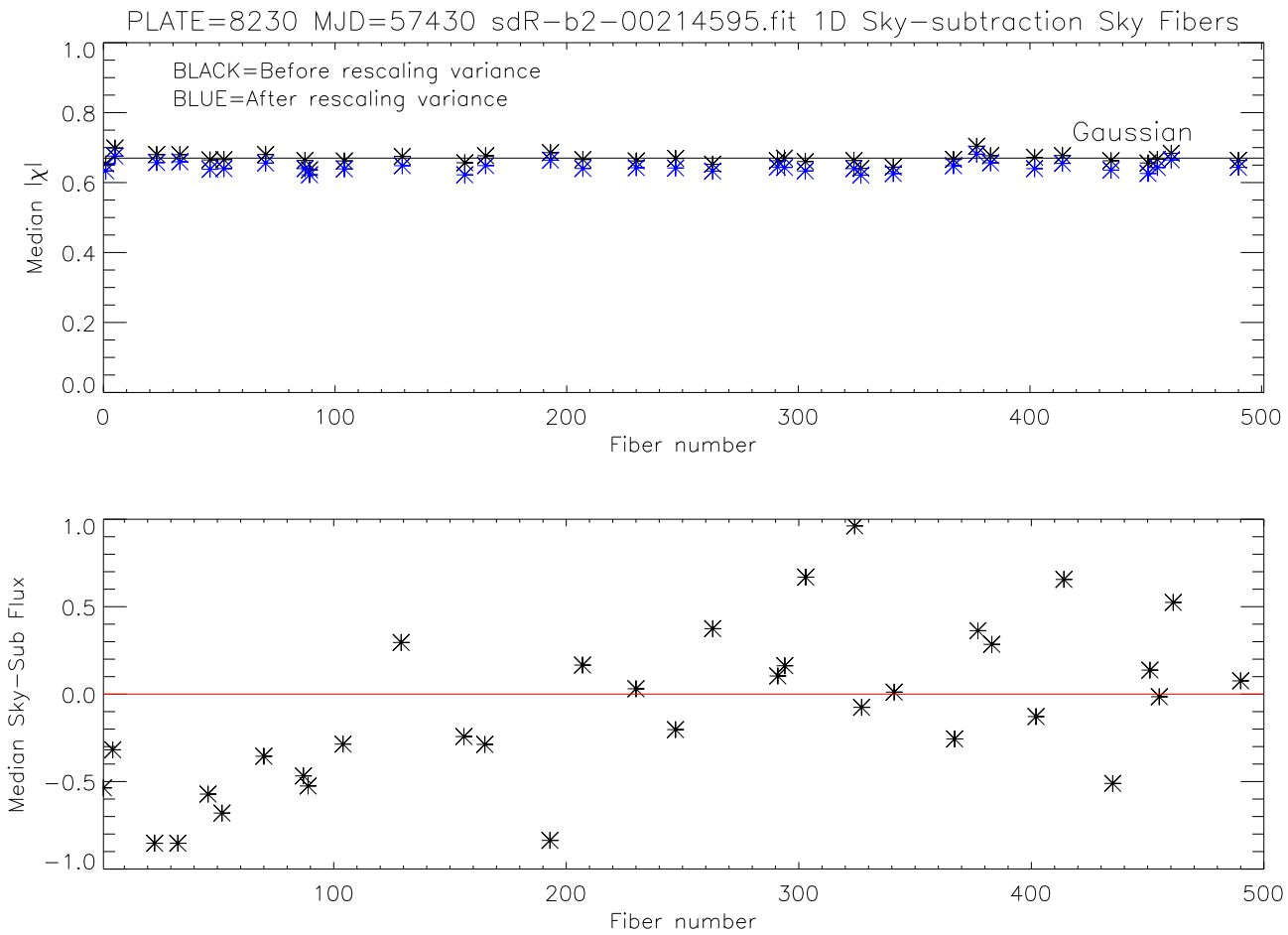

PLATE=8230 MJD=57430 sdR-b2-00214594.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
1.5×10⁴
1.0×10⁴
5.0×10³
0
−5.0×10³
0
100
200
300
400
500
Fiber number
LCO sky fiber
Dispersion = 36.73 %
Flux (5578.9)/Airmass
1.5×10⁴
1.0×10⁴
5.0×10³
0
−5.0×10³
0
100
200
300
400
Focal Distance [mm]
Flux (5578.9)/Airmass
1.5×10⁴
1.0×10⁴
5.0×10³
0
−5.0×10³
1.085
1.090
1.095
1.100
1.105
Airmass

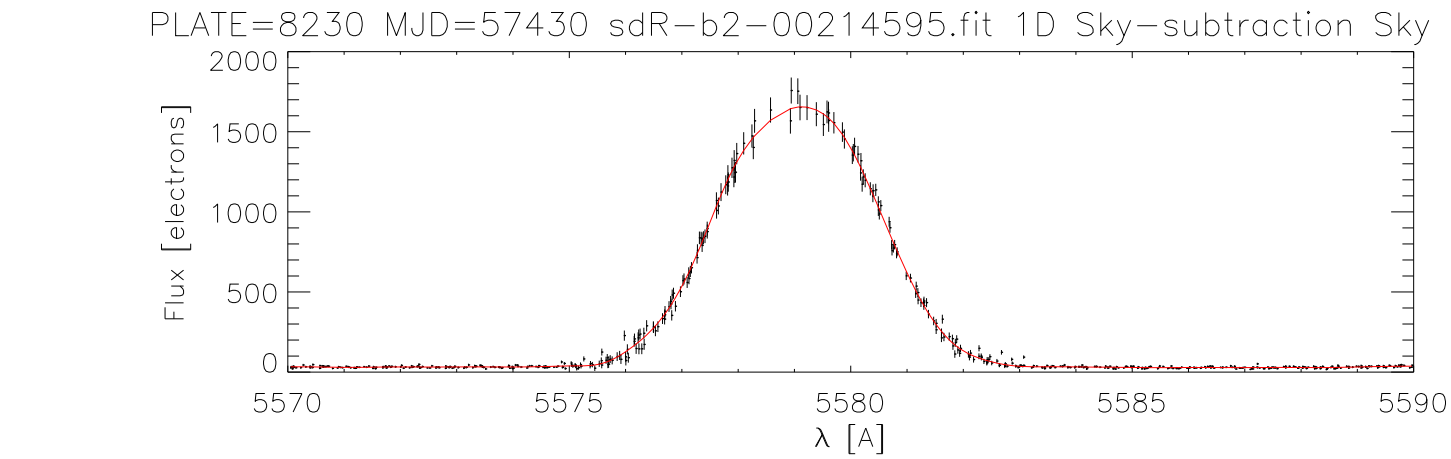

PLATE=8230 MJD=57430 Fiber−Flats for sdR−b2−00214590.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −3.225
Max value = 3.214
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sun May 29 11:25:46 2016

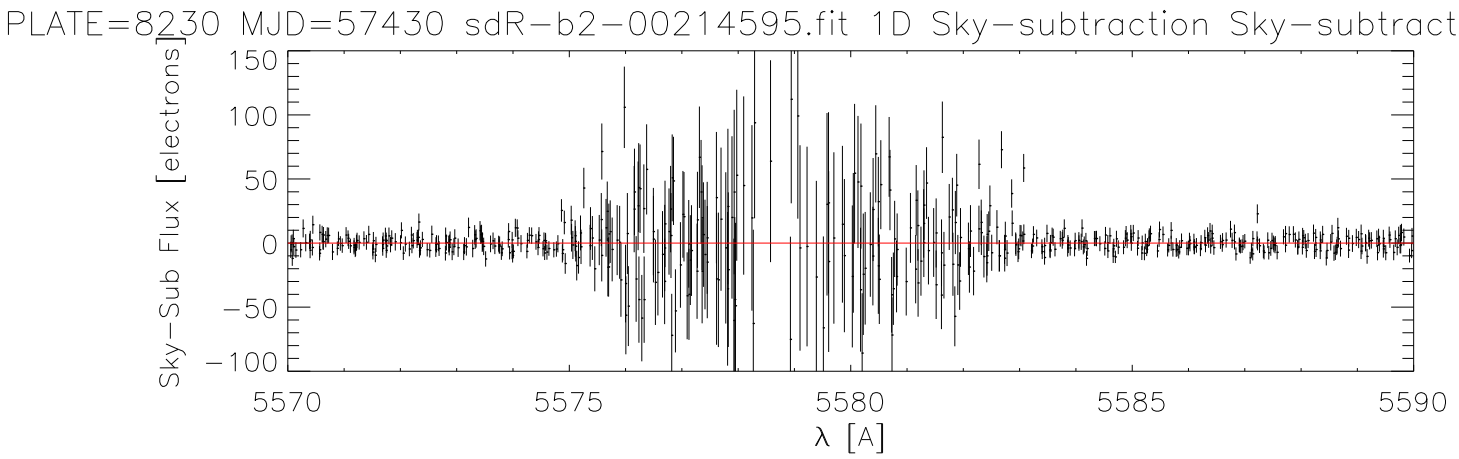

PLATE=8230 MJD=57430 Extraction chi^2 for sdR−b2−00214595.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=8230 MJD=57430 Sky Line Deviations for sdR-b2-00214595.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

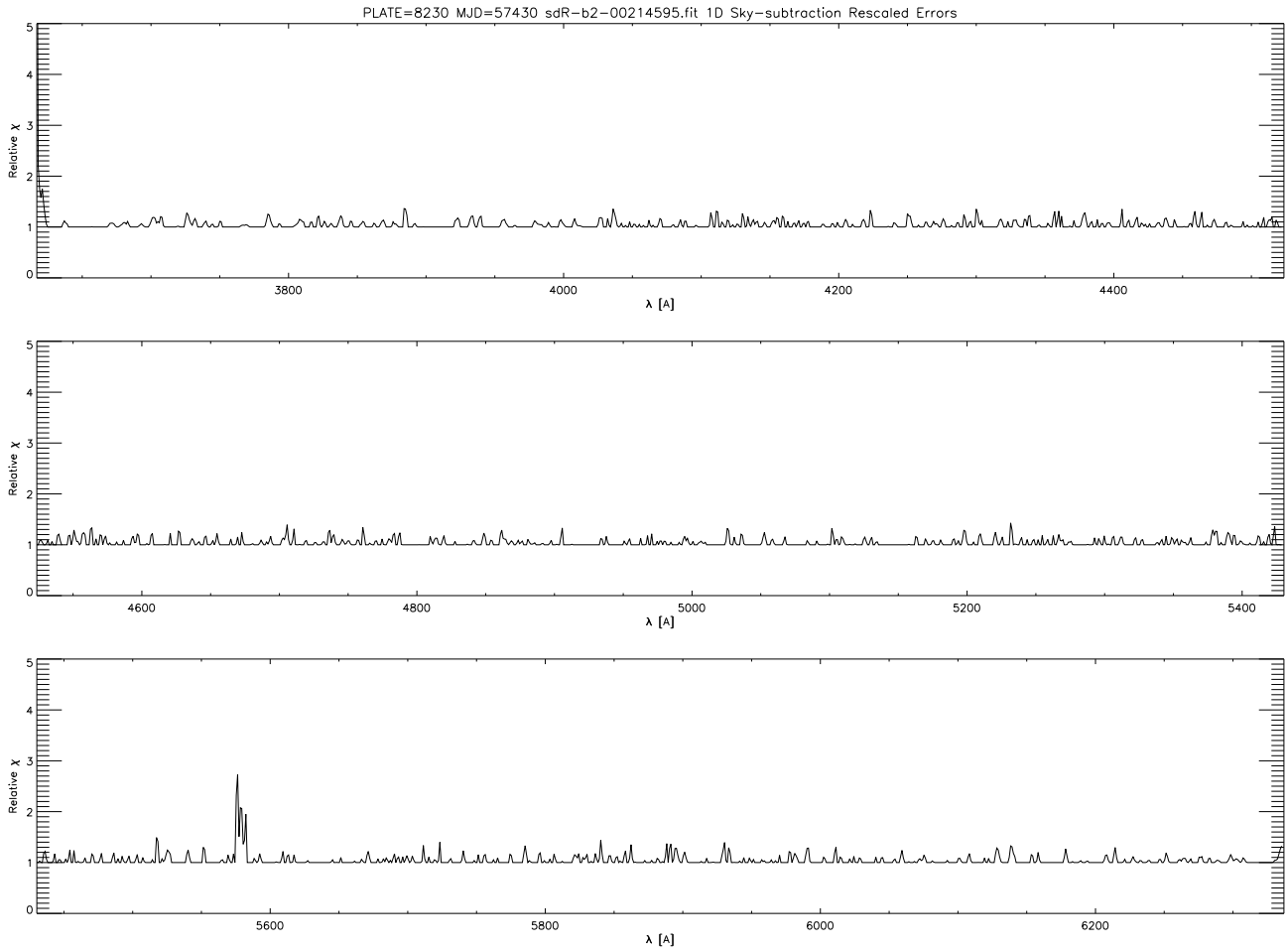

PLATE=8230 MJD=57430 Smooth superflat for sdR-b2-00214595.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

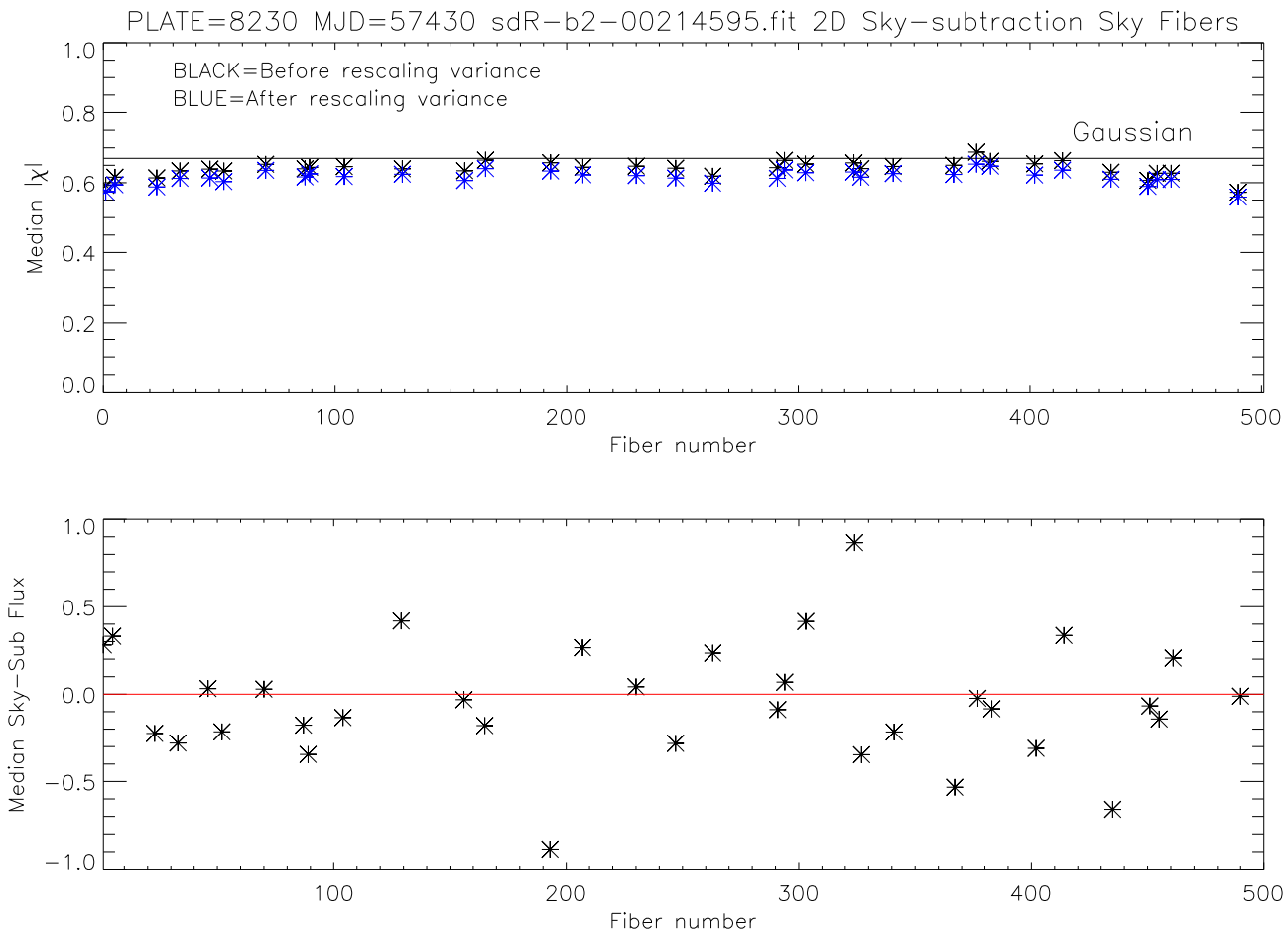

PLATE=8230 MJD=57430 sdR-b2-00214595.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

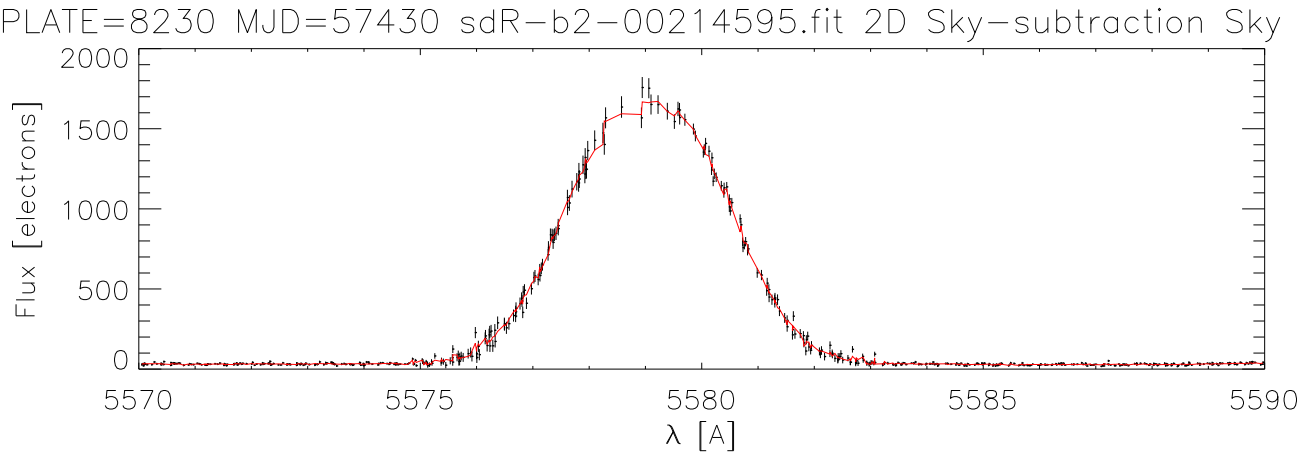

PLATE=8230 MJD=57430 sdR-b2-00214595.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

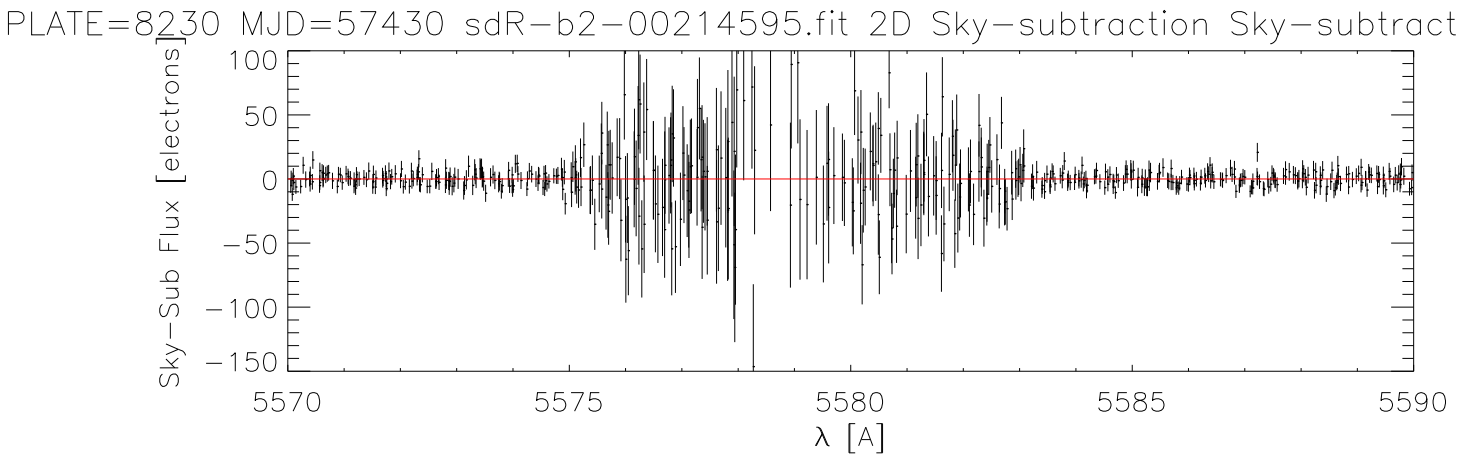

PLATE=8230 MJD=57430 sdR-b2-00214595.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 34

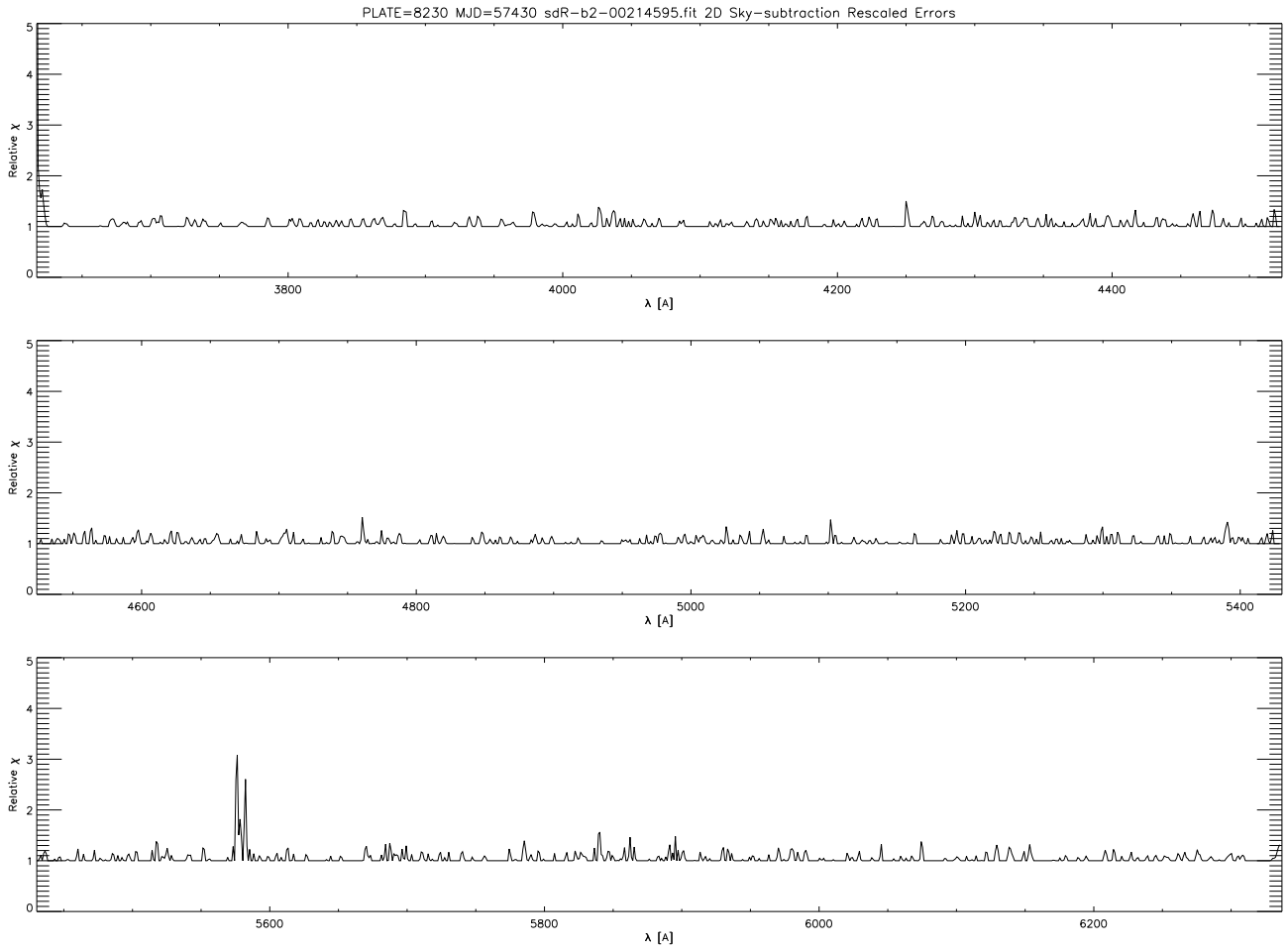


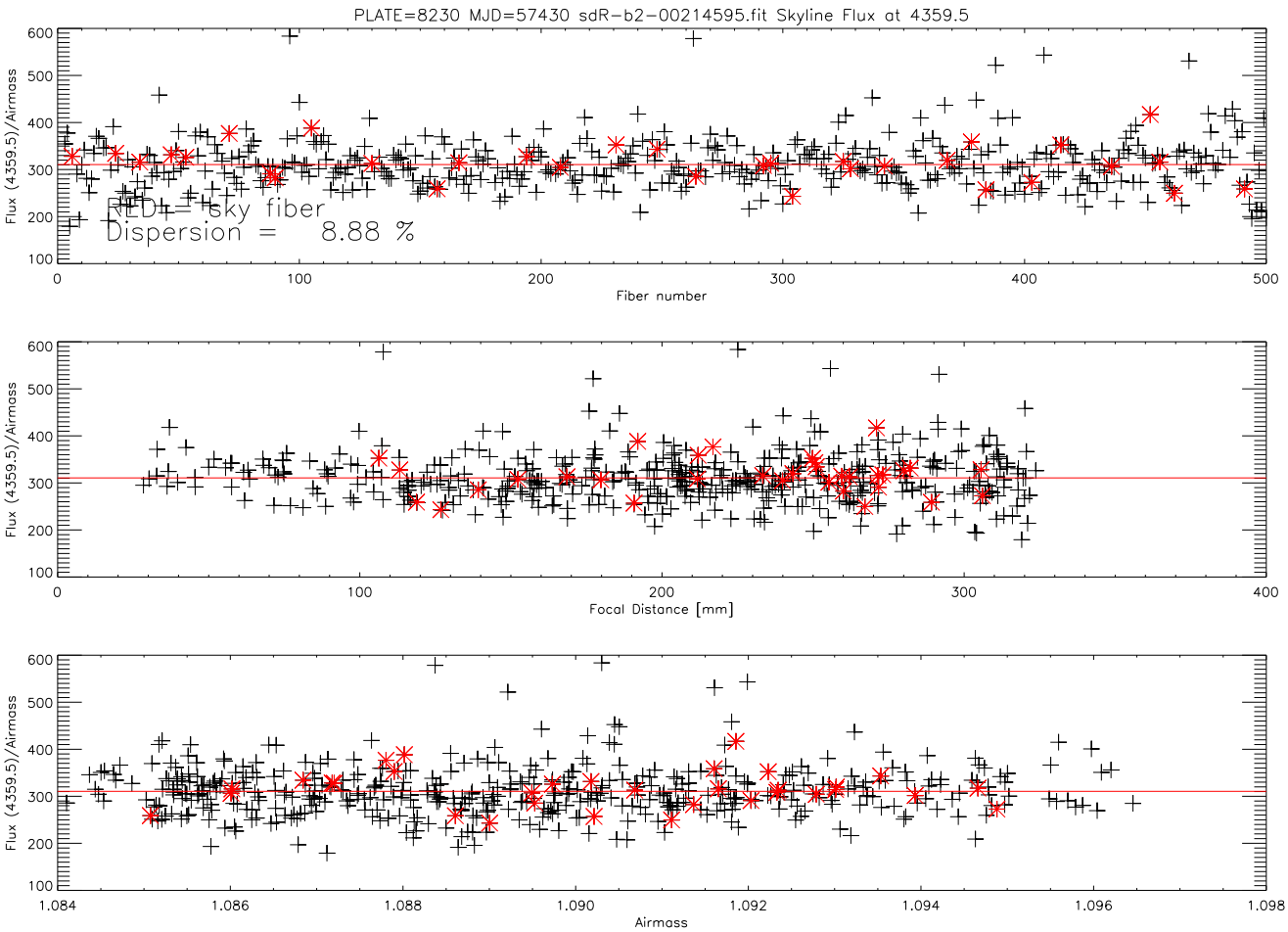

PLATE=8230 MJD=57430 sdR-b2-00214595.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

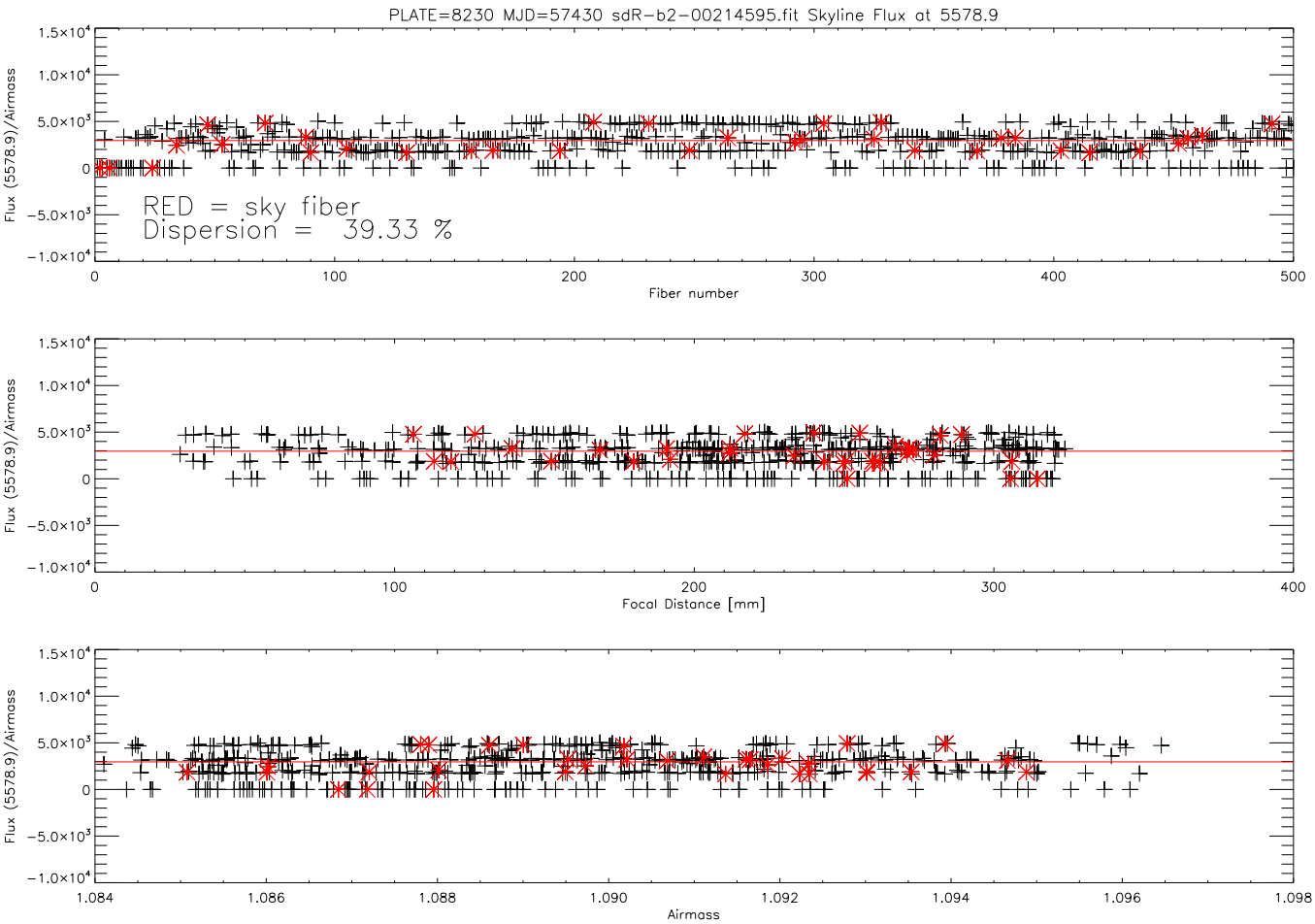

PLATE=8230 MJD=57430 sdR-b2-00214595.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

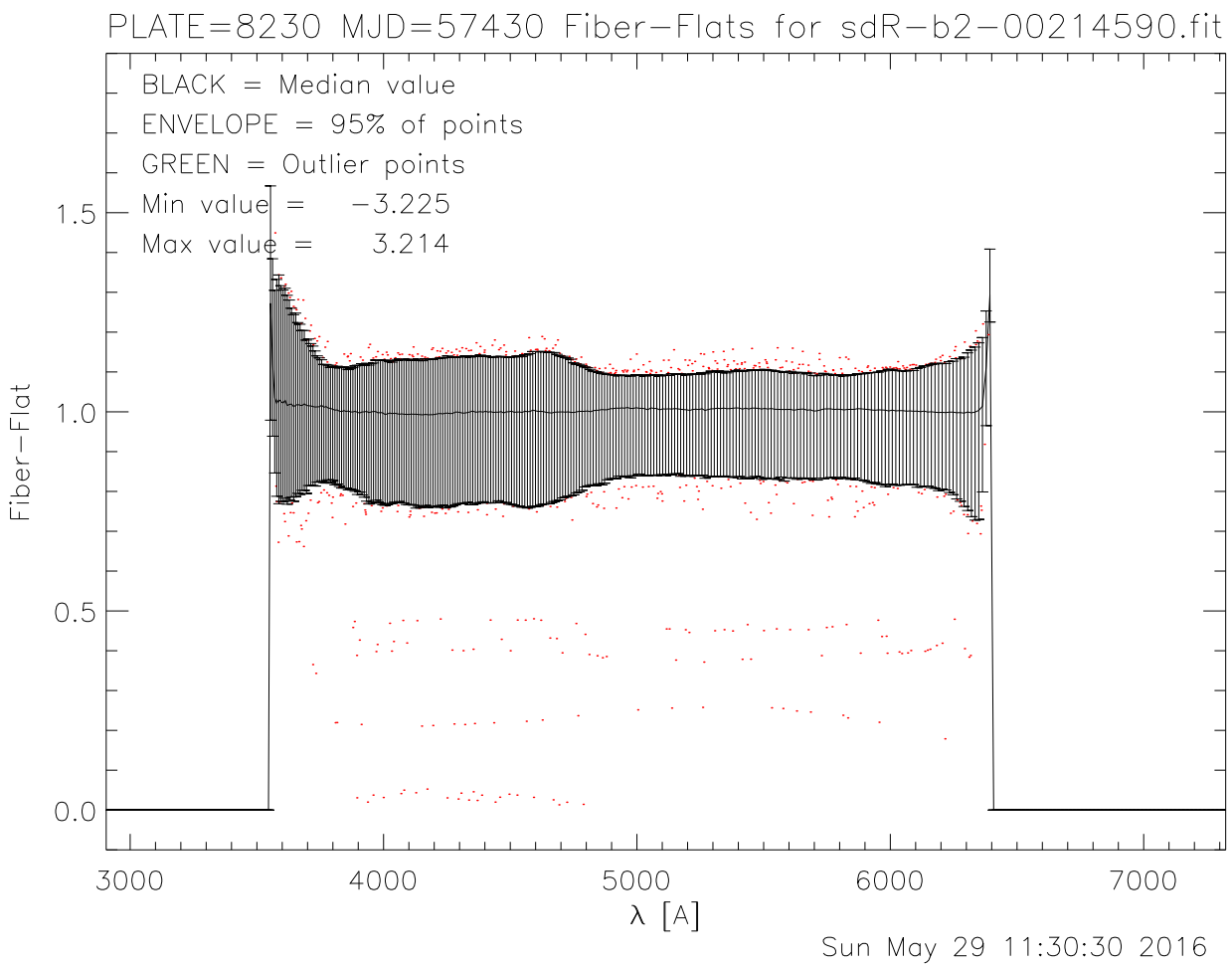

PLATE=8230 MJD=57430 sdR-b2-00214595.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
-150
5570
5575
5580
5585
5590
λ [A]

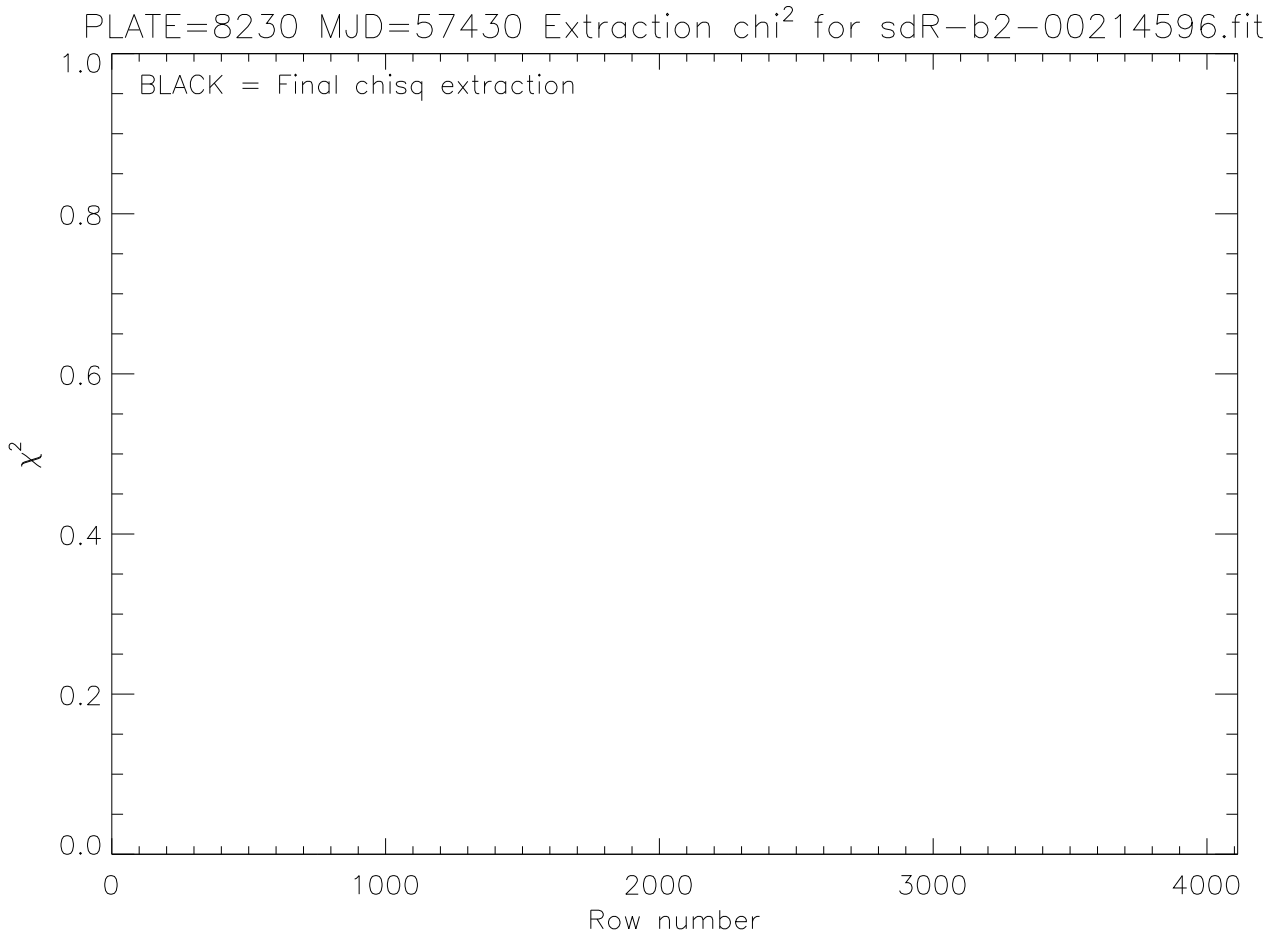
Number of sky fibers = 34

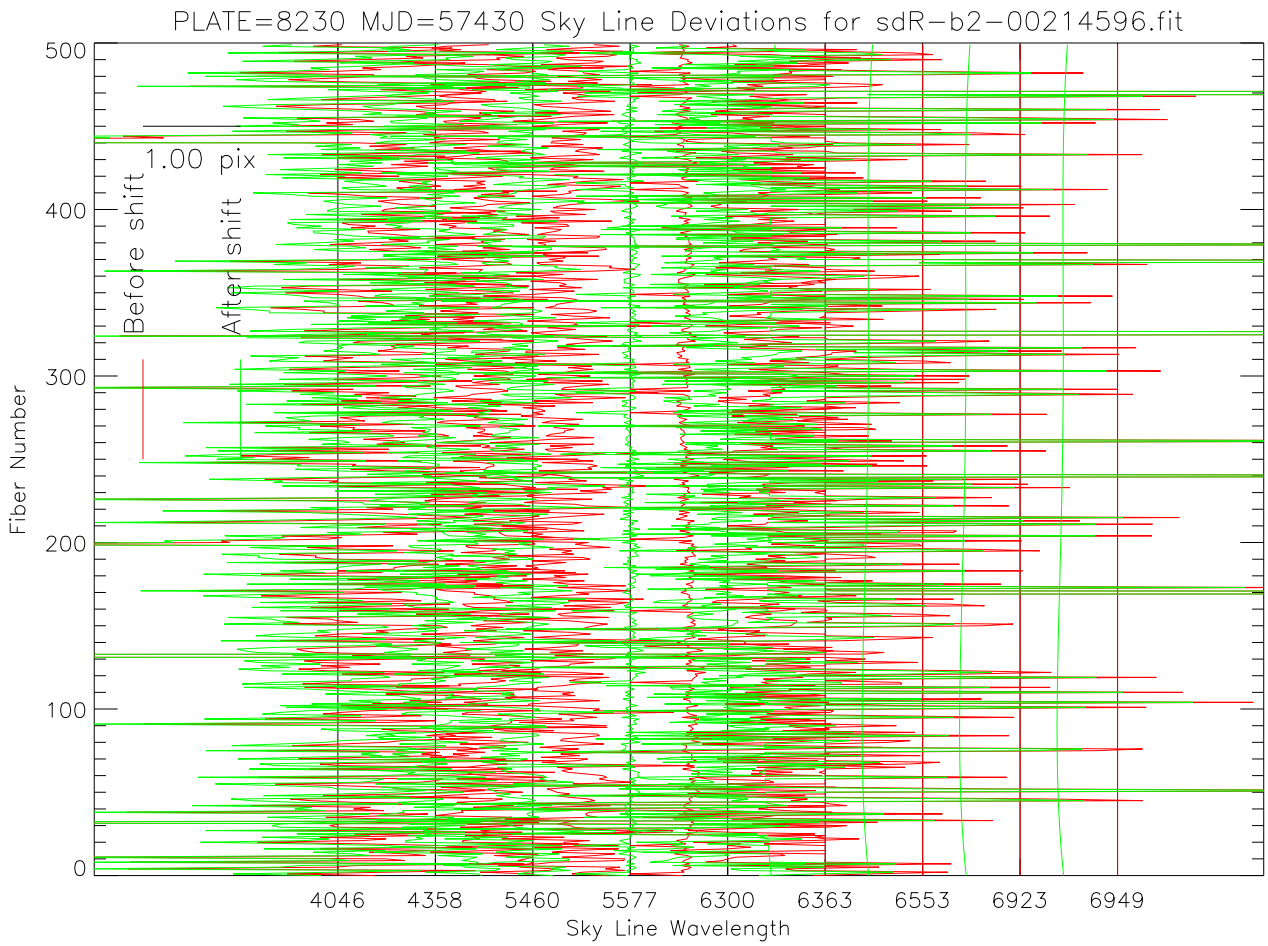


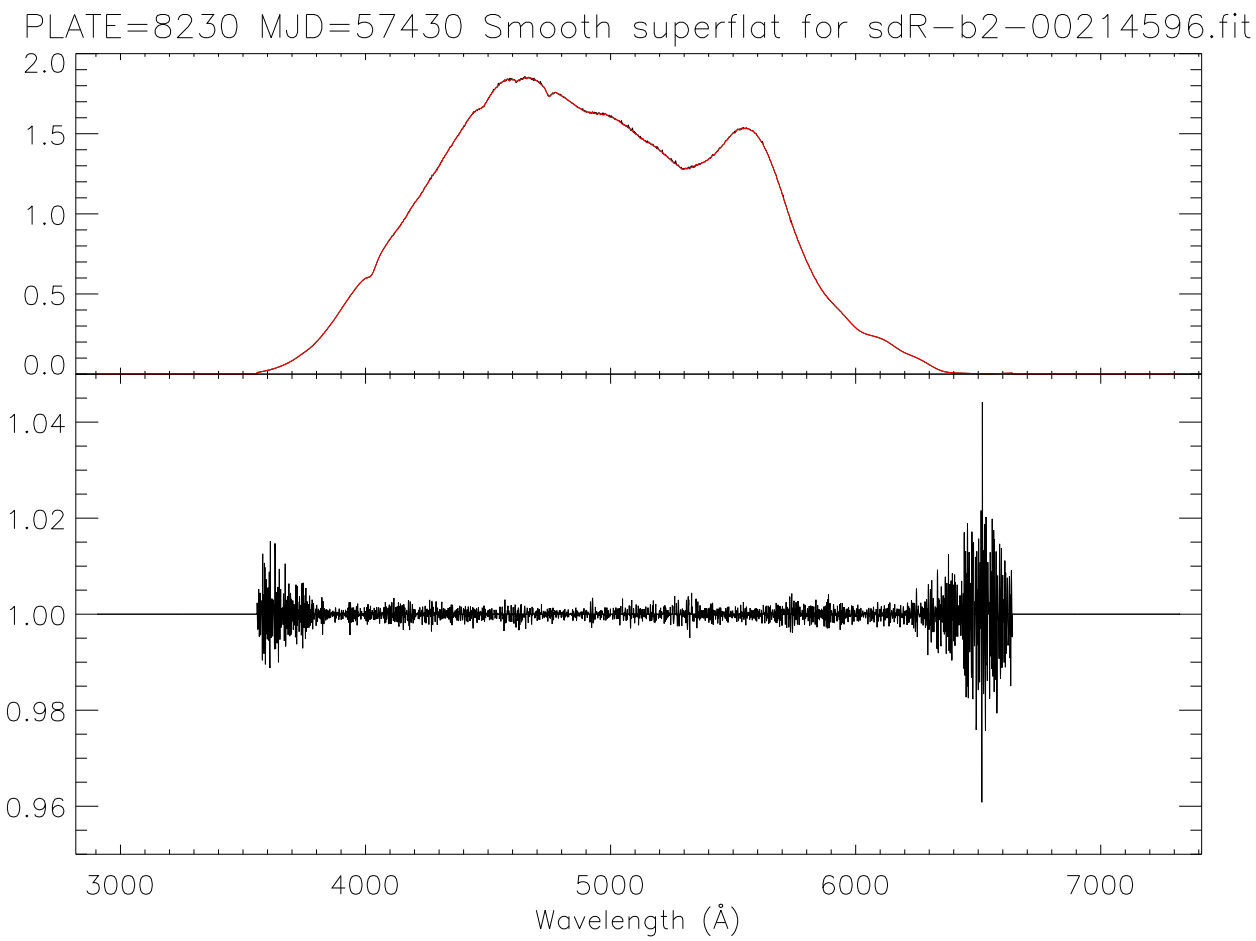

PLATE=8230 MJD=57430 sdR-b2-00214595.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED= sky fiber
Dispersion = 8.88 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

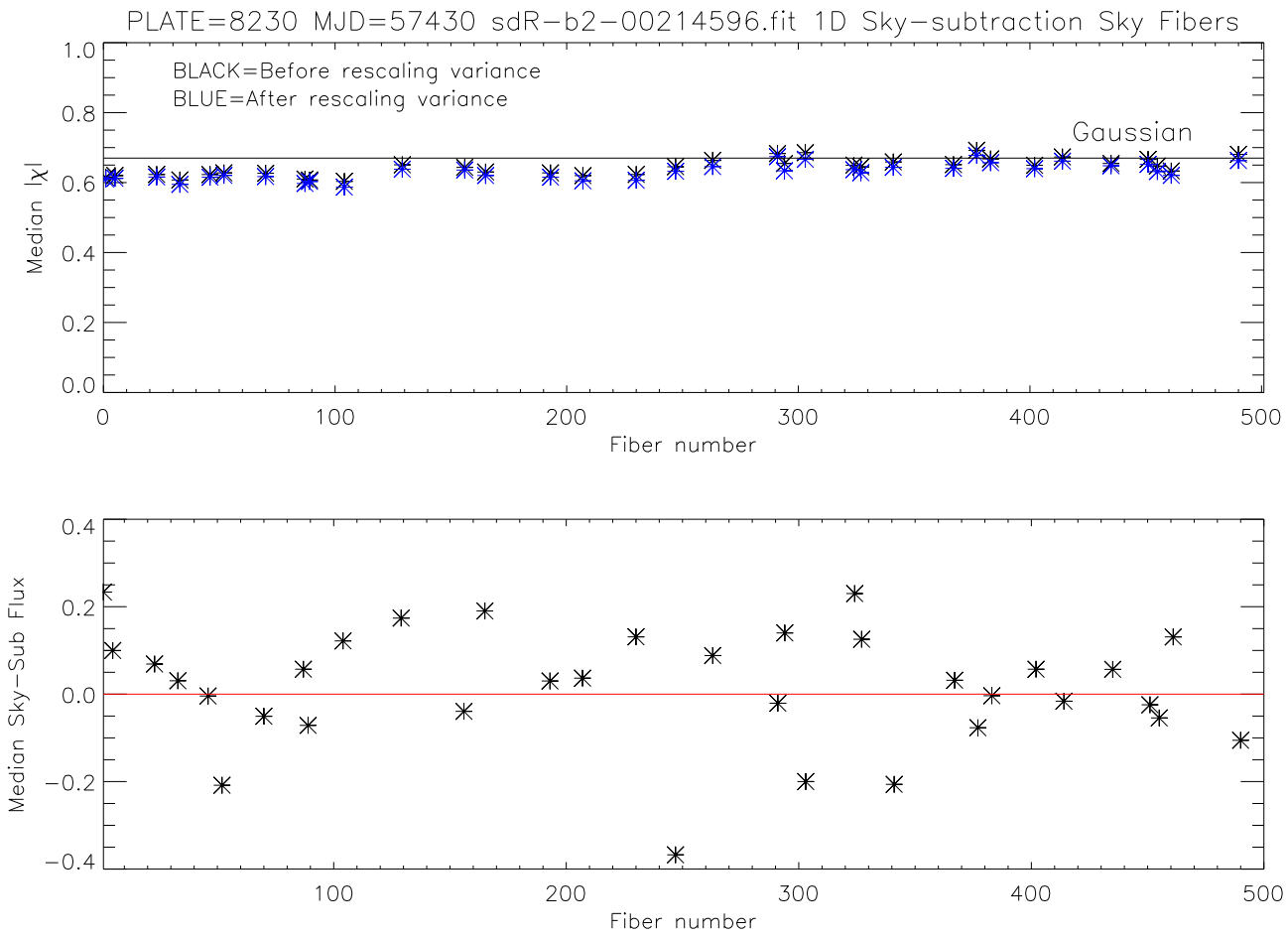

PLATE=8230 MJD=57430 sdR-b2-00214595.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 39.33 %
Fiber number
Focal Distance [mm]
Airmass

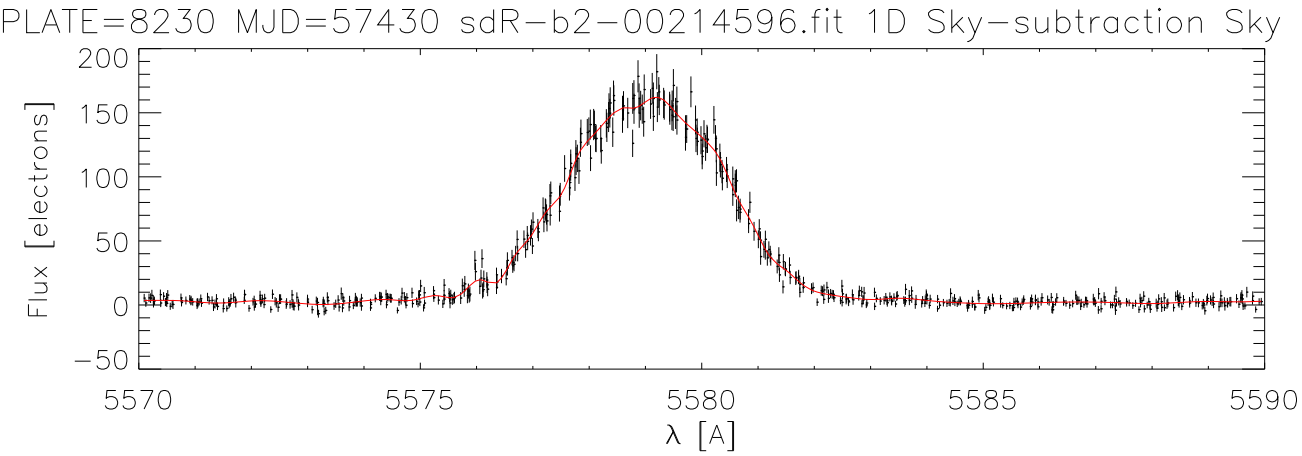

PLATE=8230 MJD=57430 Fiber−Flats for sdR−b2−00214590.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −3.225
Max value = 3.214
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sun May 29 11:30:30 2016

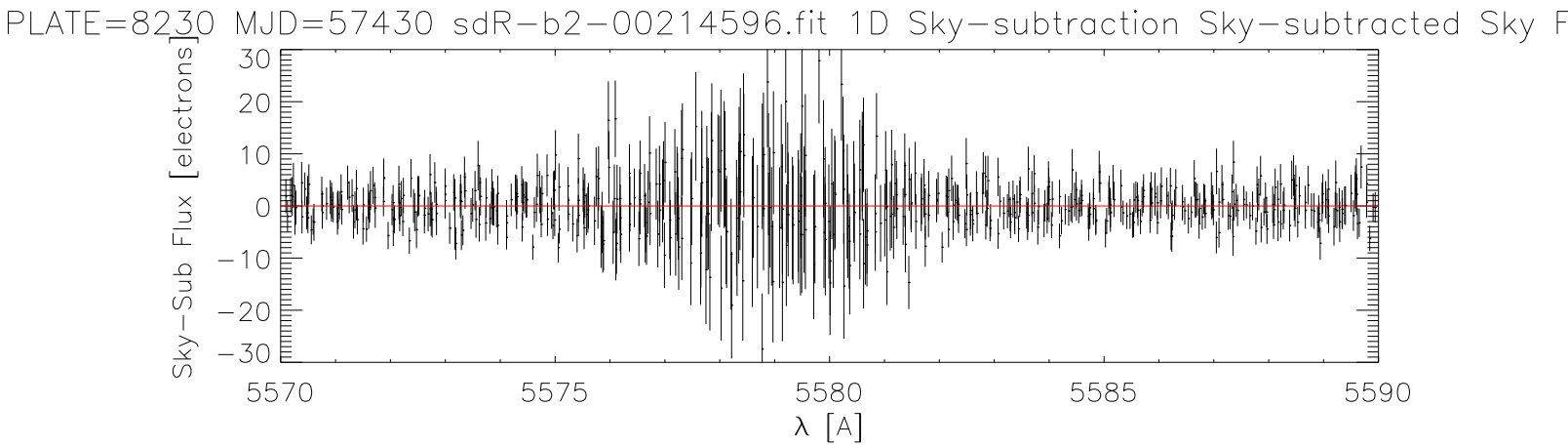

PLATE=8230 MJD=57430 Extraction chi^2 for sdR-b2-00214596.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=8230 MJD=57430 Sky Line Deviations for sdR-b2-00214596.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

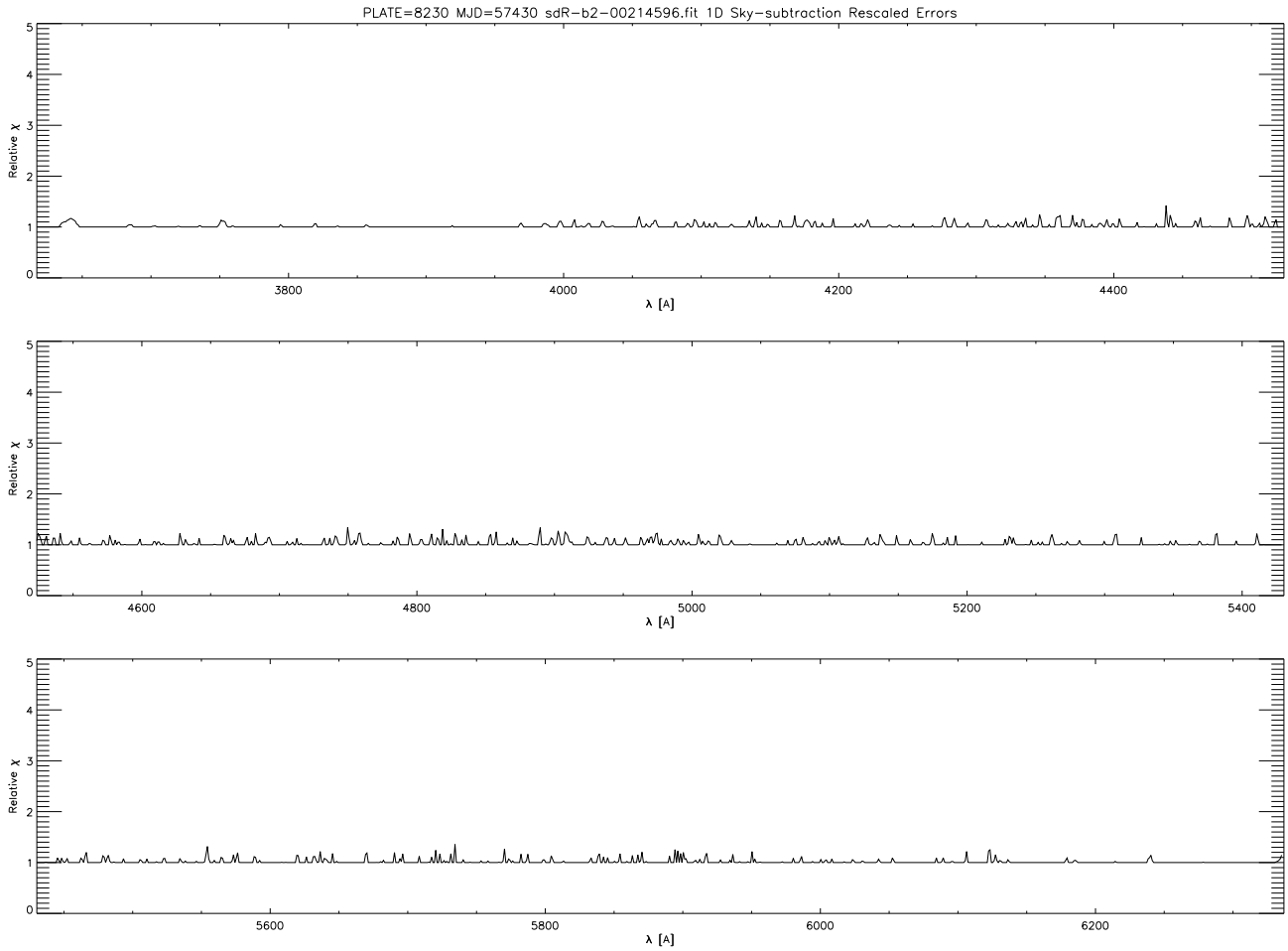

PLATE=8230 MJD=57430 Smooth superflat for sdR-b2-00214596.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

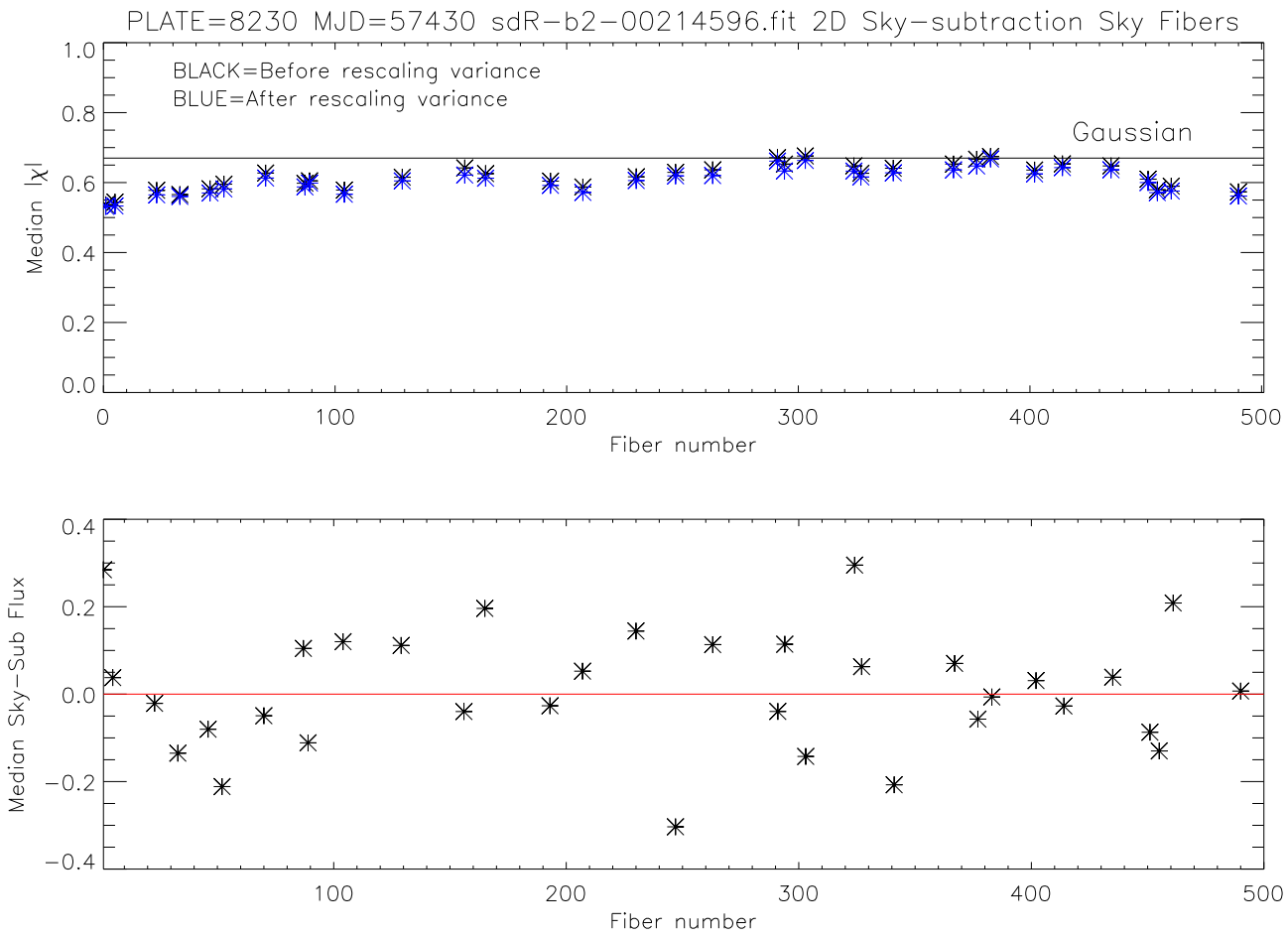

PLATE=8230 MJD=57430 sdR-b2-00214596.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

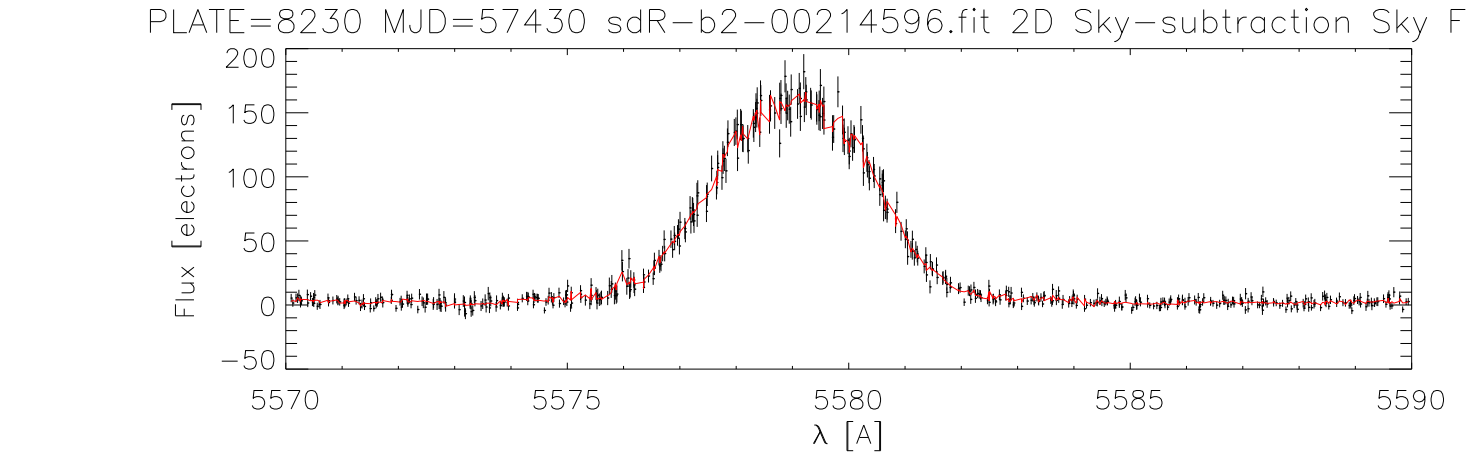

PLATE=8230 MJD=57430 sdR-b2-00214596.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
200
150
100
50
0
-50
5570
5575
5580
5585
5590
λ [A]

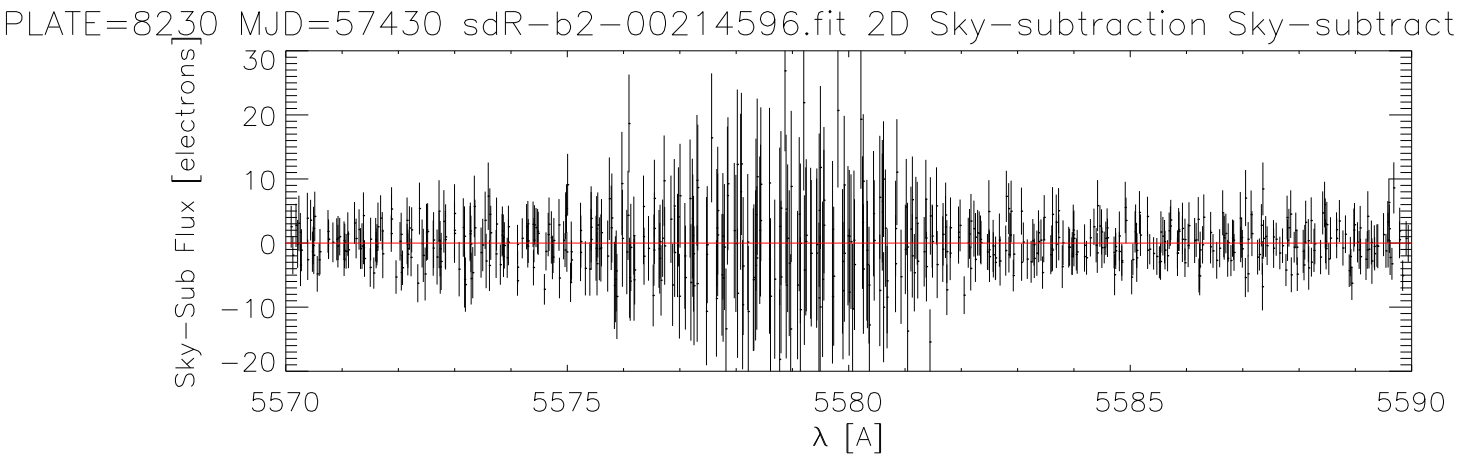

PLATE=8230 MJD=57430 sdR-b2-00214596.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
30
20
10
0
-10
-20
-30
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 34

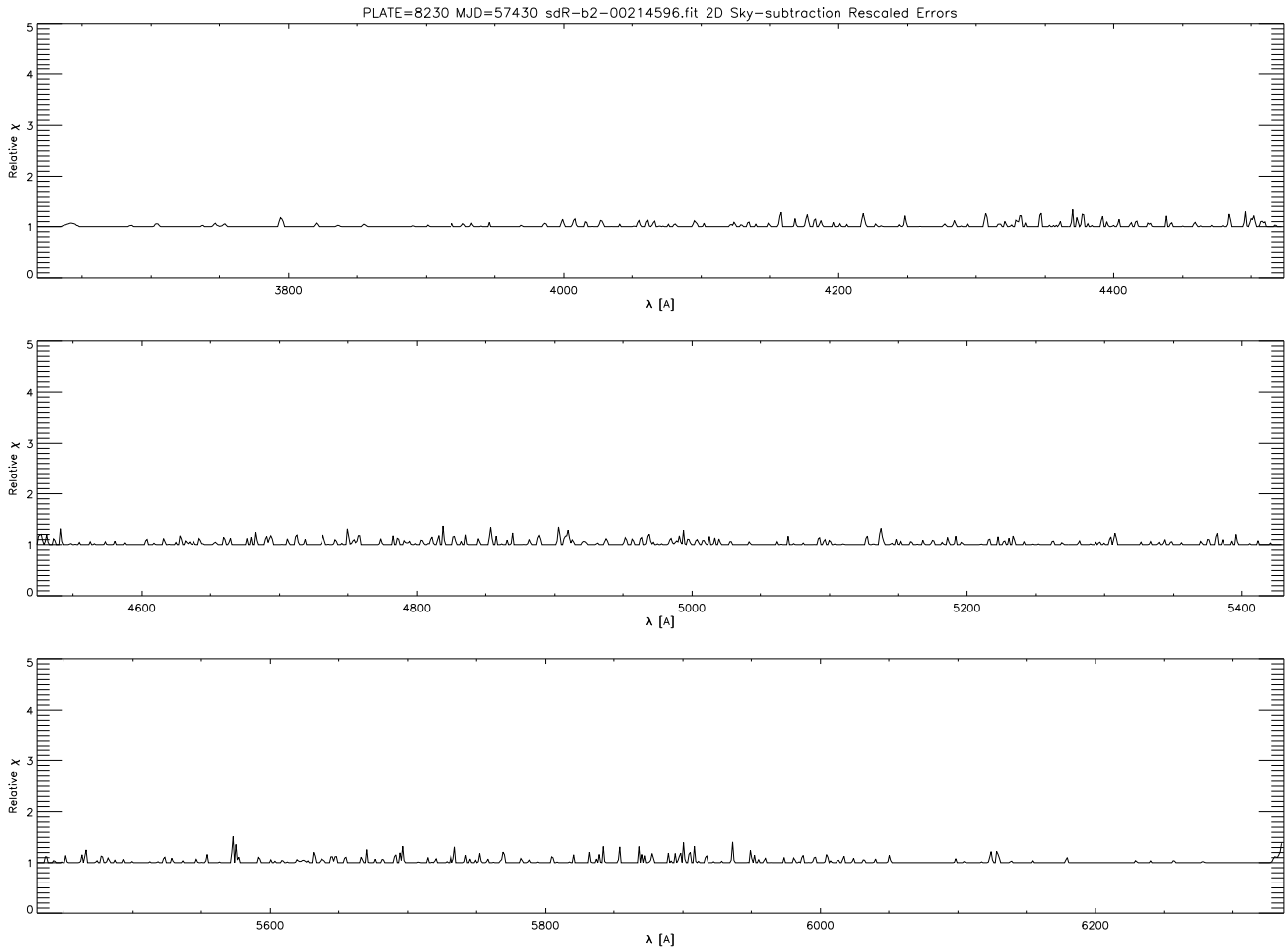


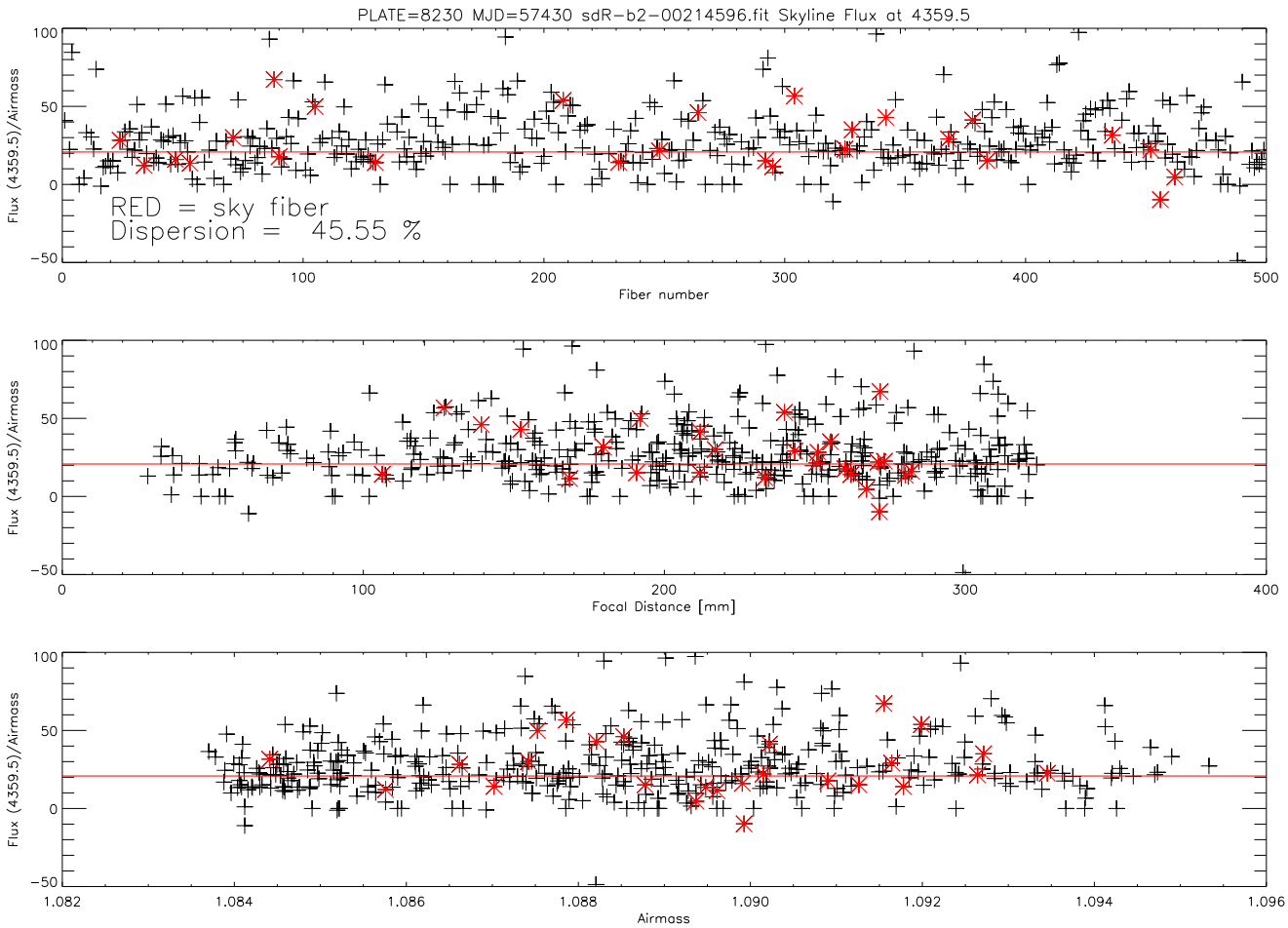

PLATE=8230 MJD=57430 sdR-b2-00214596.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

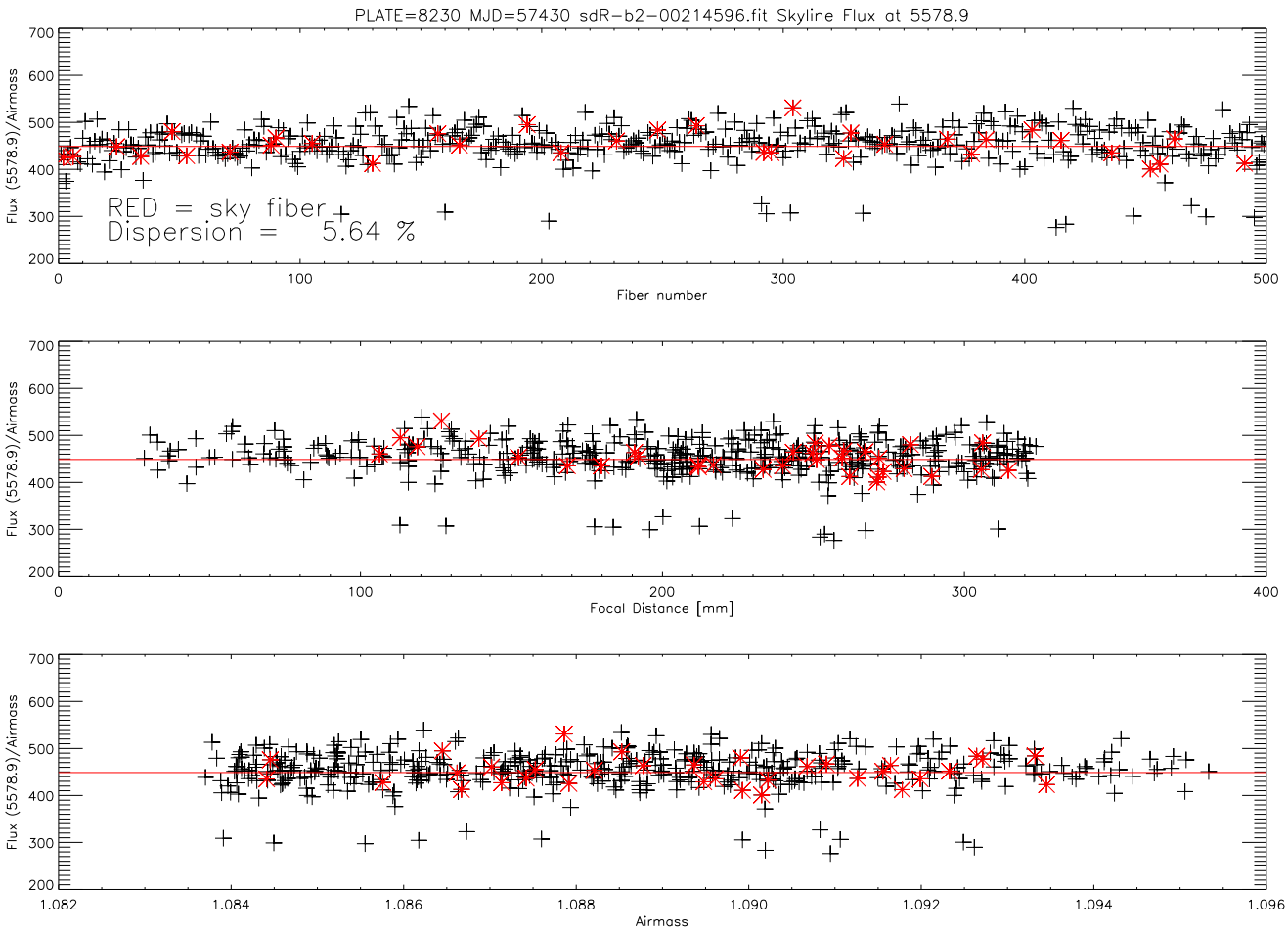

PLATE=8230 MJD=57430 sdR-b2-00214596.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
200
150
100
50
0
−50
5570
5575
5580
5585
5590
λ [A]


PLATE=8230 MJD=57430 sdR-b2-00214596.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
30
20
10
0
−10
−20
5570
5575
5580
5585
5590
λ [A]

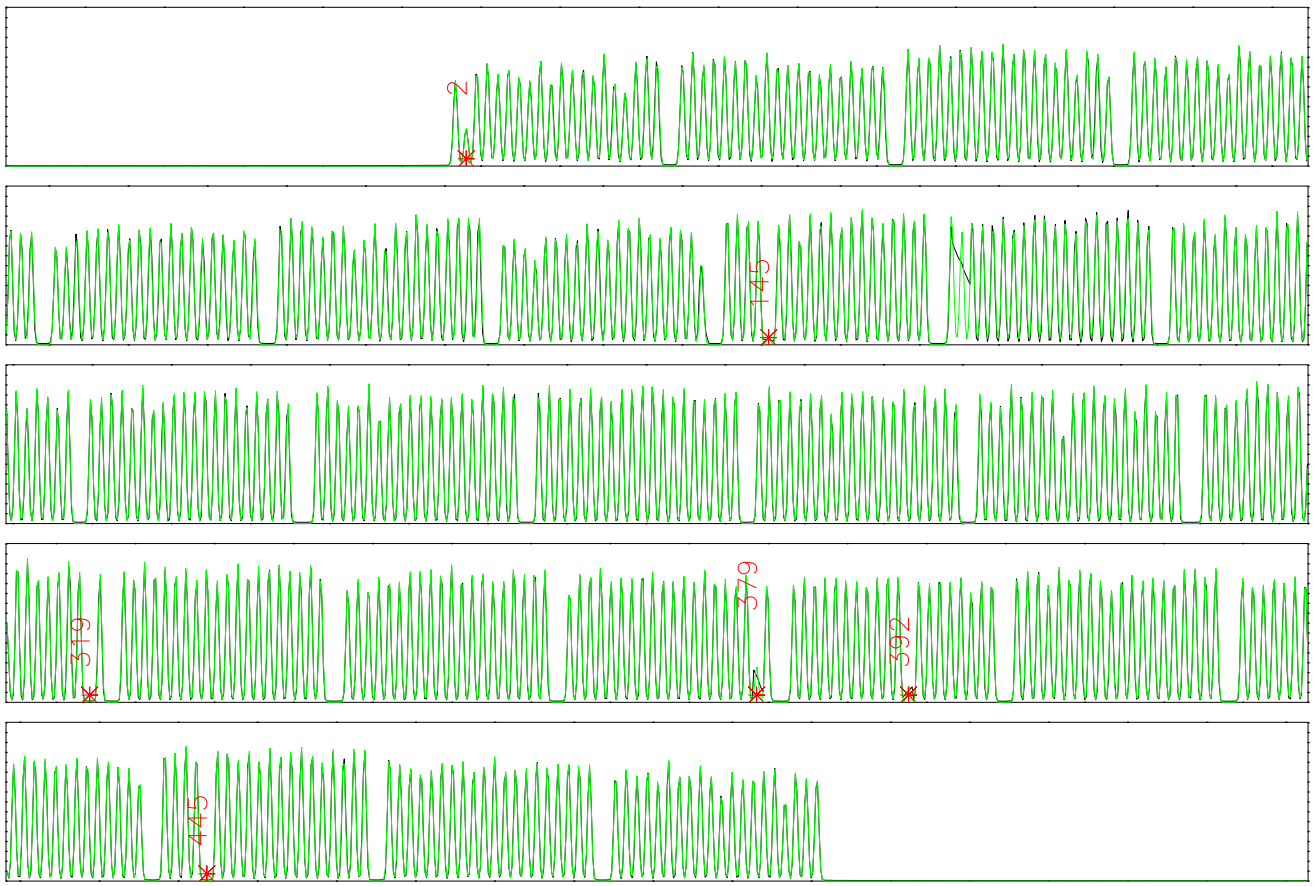
Number of sky fibers = 34

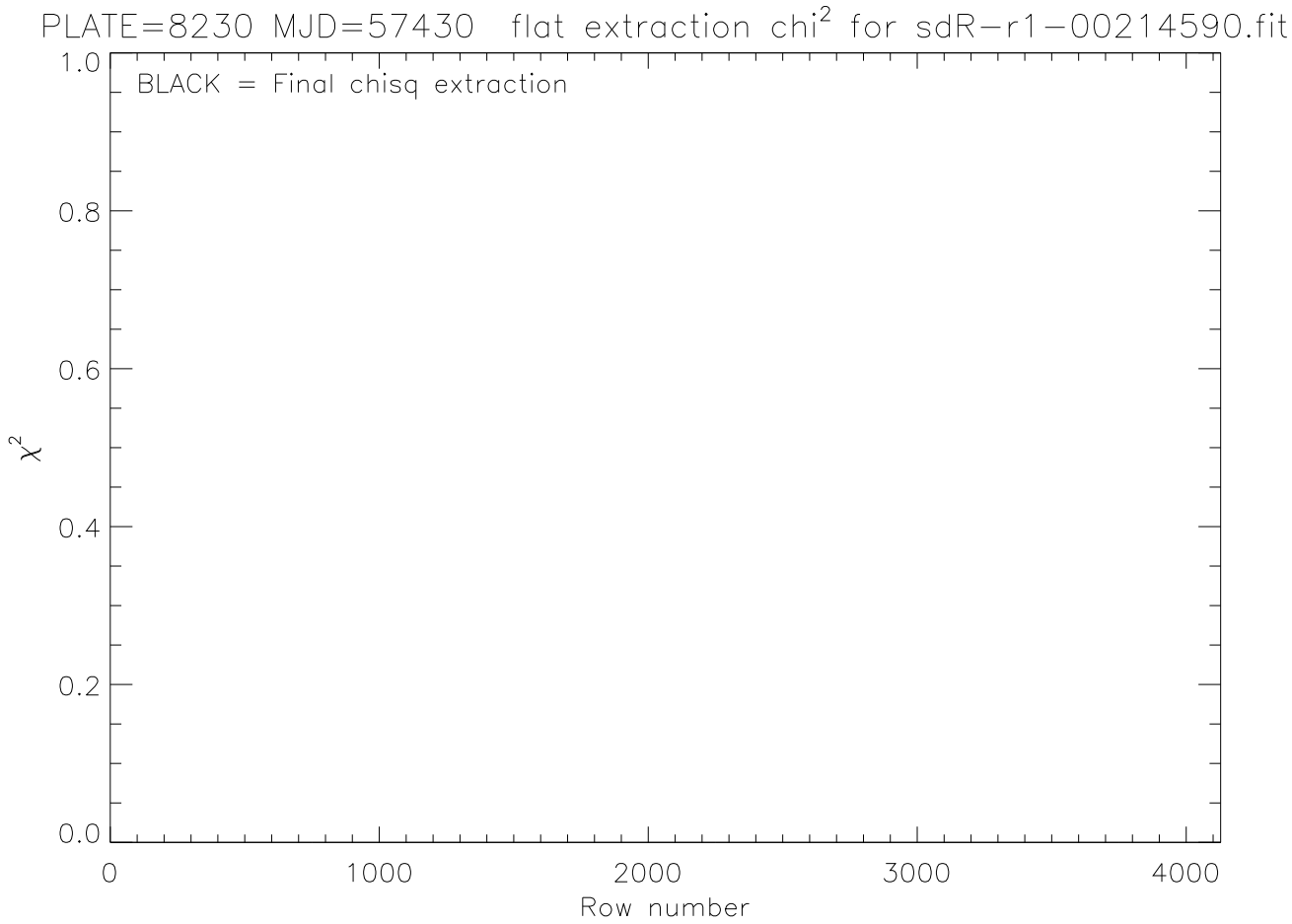


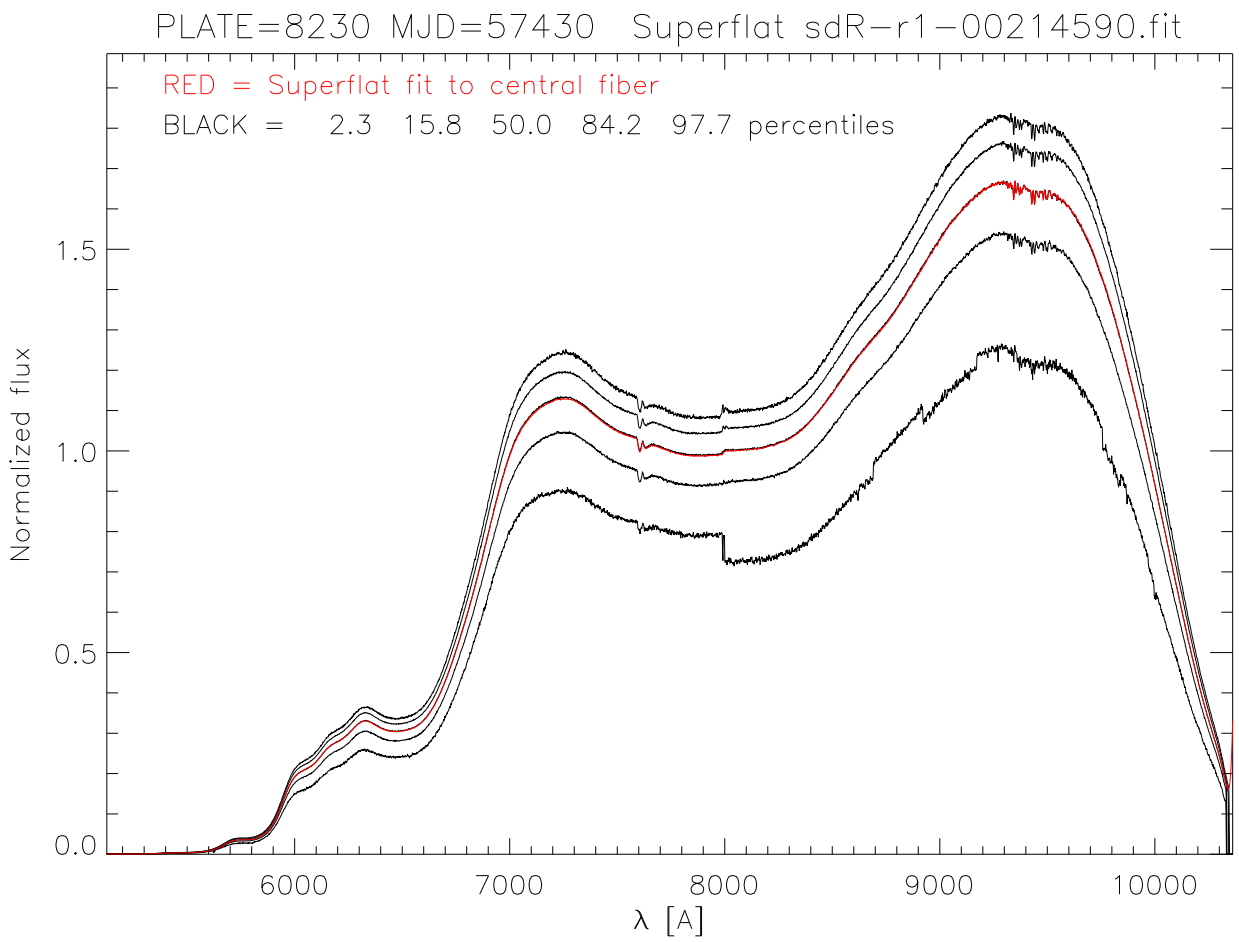

PLATE=8230 MJD=57430 sdR-b2-00214596.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 45.55 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

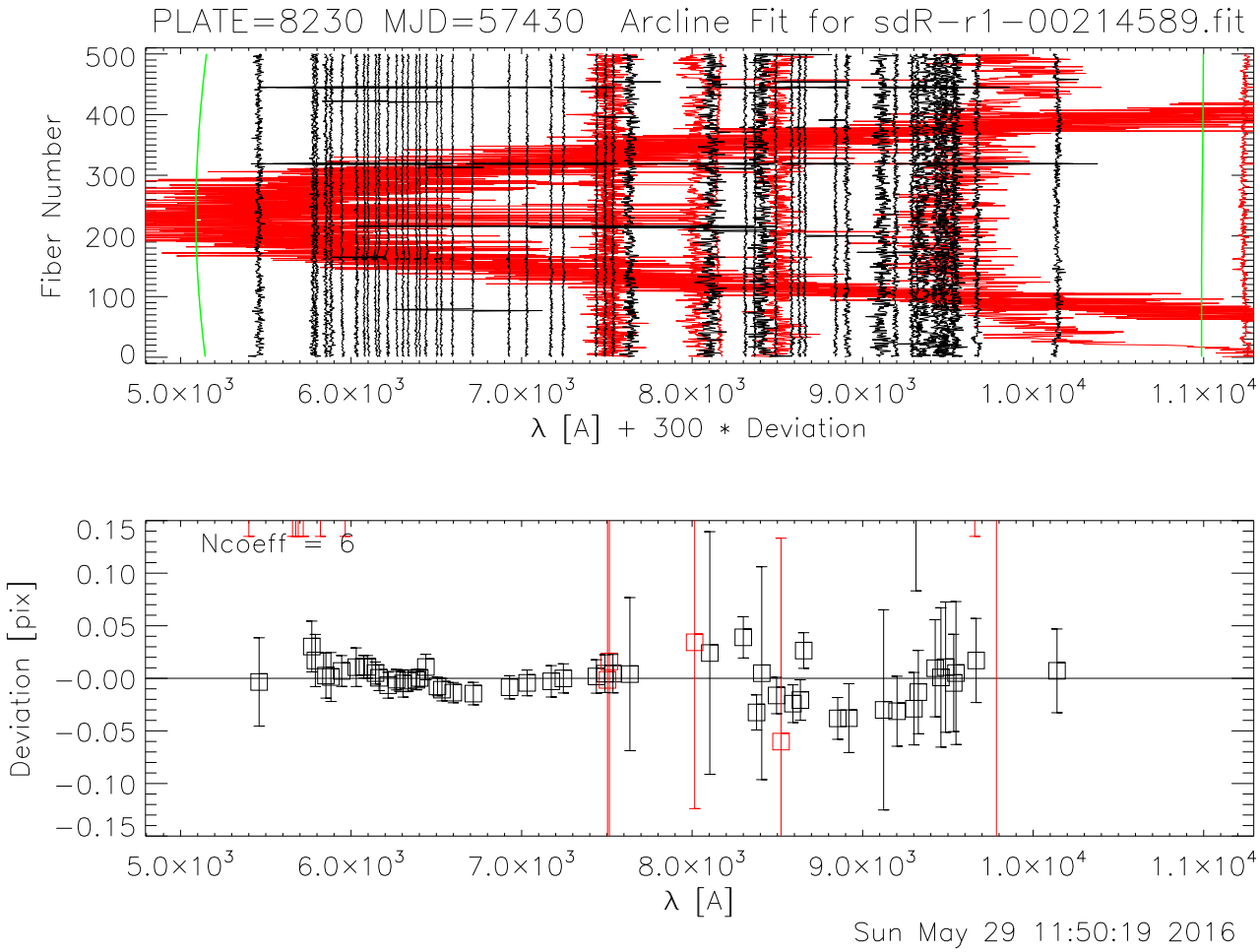

PLATE=8230 MJD=57430 sdR-b2-00214596.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 5.64 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

PLATE=8230 MJD=57430 Traces sdR-r1-00214590.fit

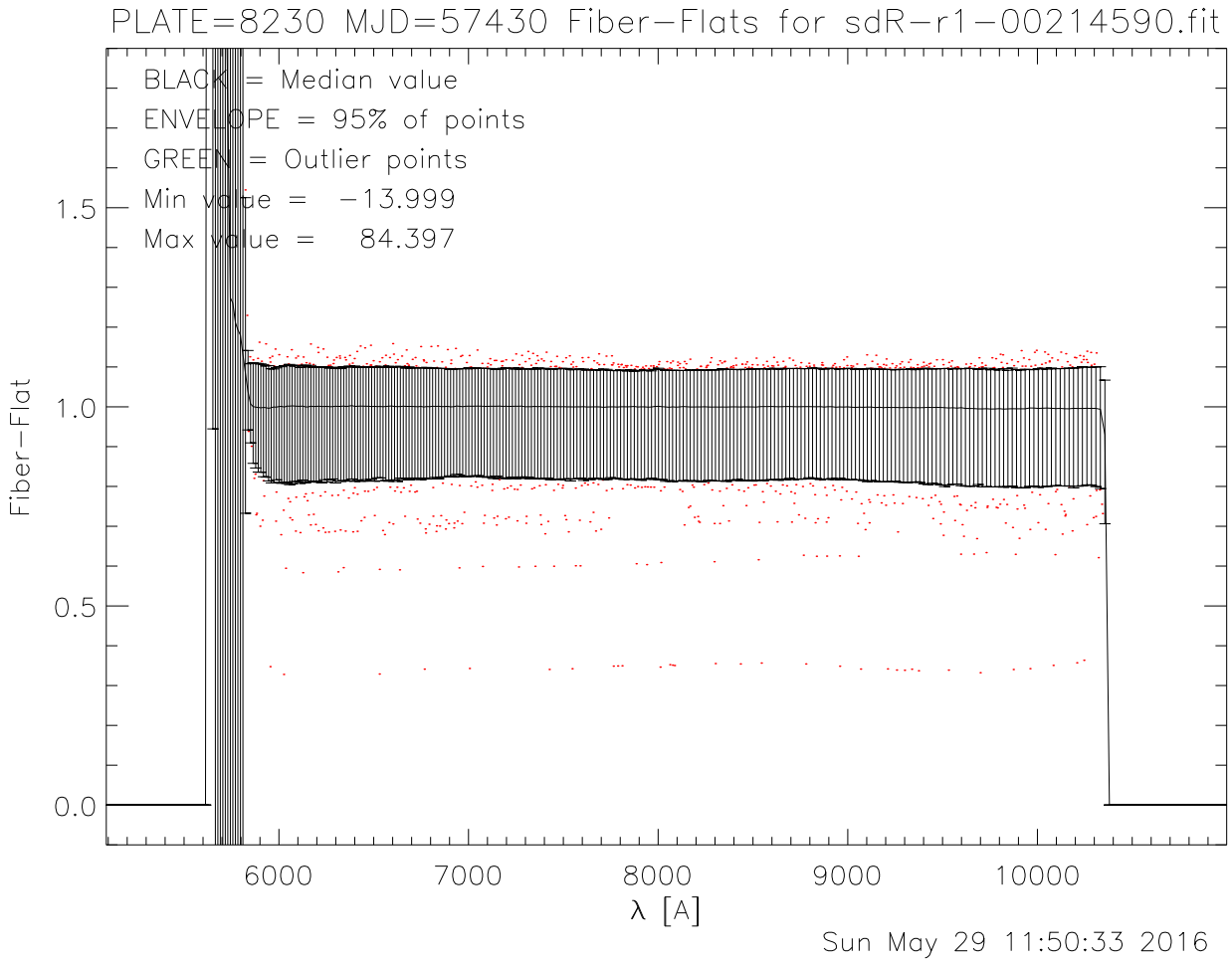


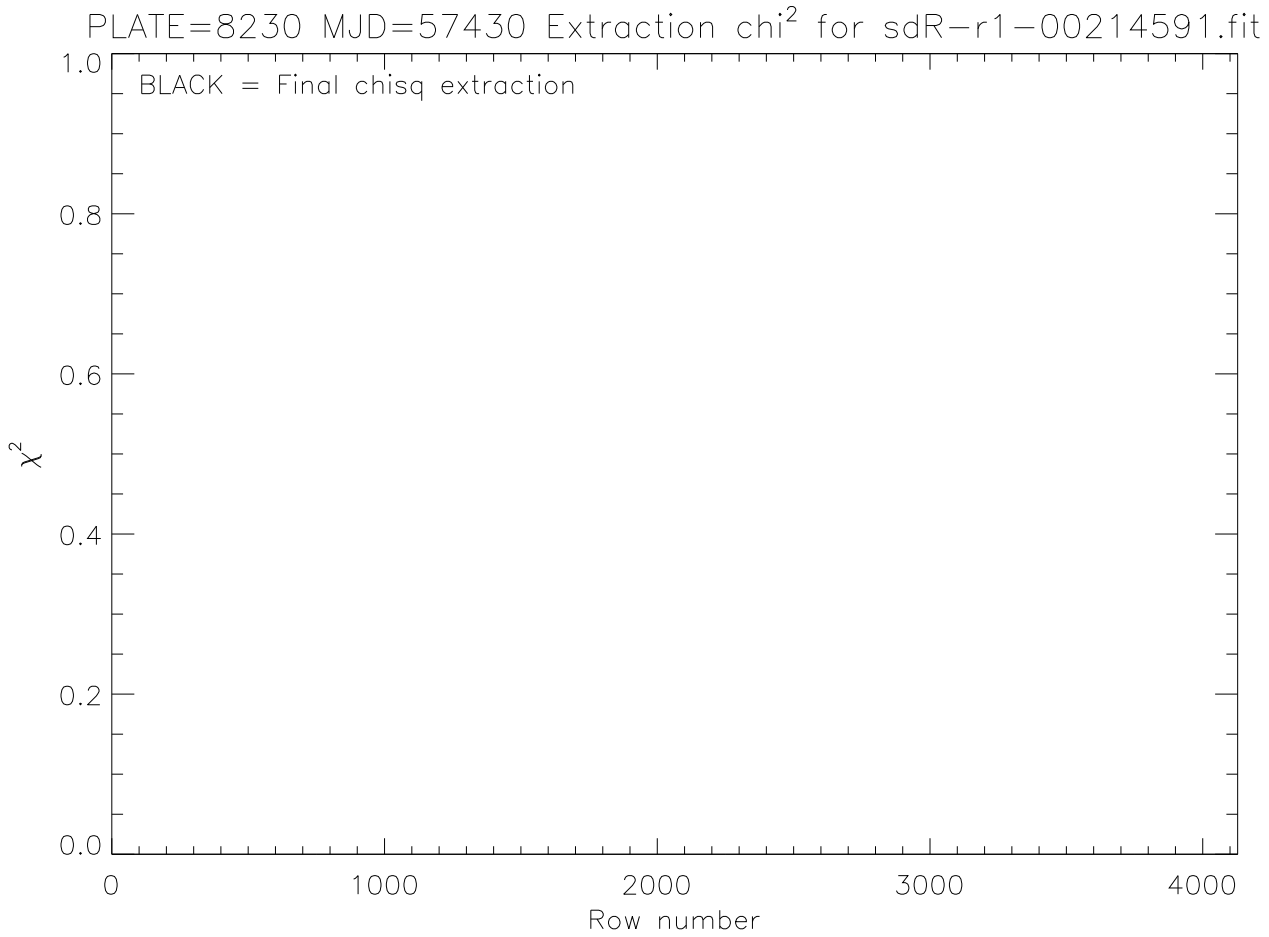

PLATE=8230 MJD=57430 flat extraction chi^2 for sdR−r1−00214590.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number

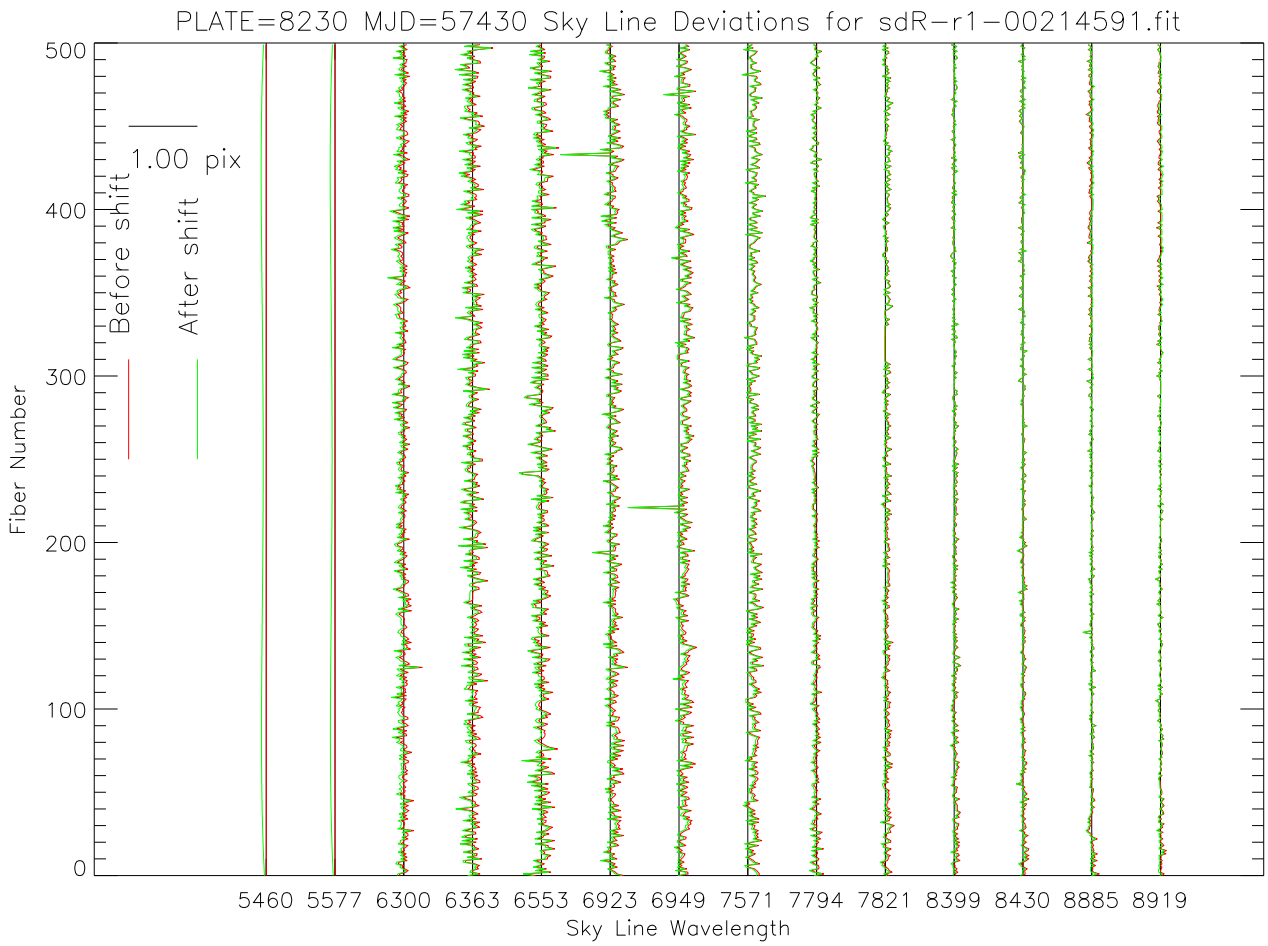

PLATE=8230 MJD=57430 Superflat sdR-r1-00214590.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
0.0
0.5
1.0
1.5
6000
7000
8000
9000
10000
λ [A]

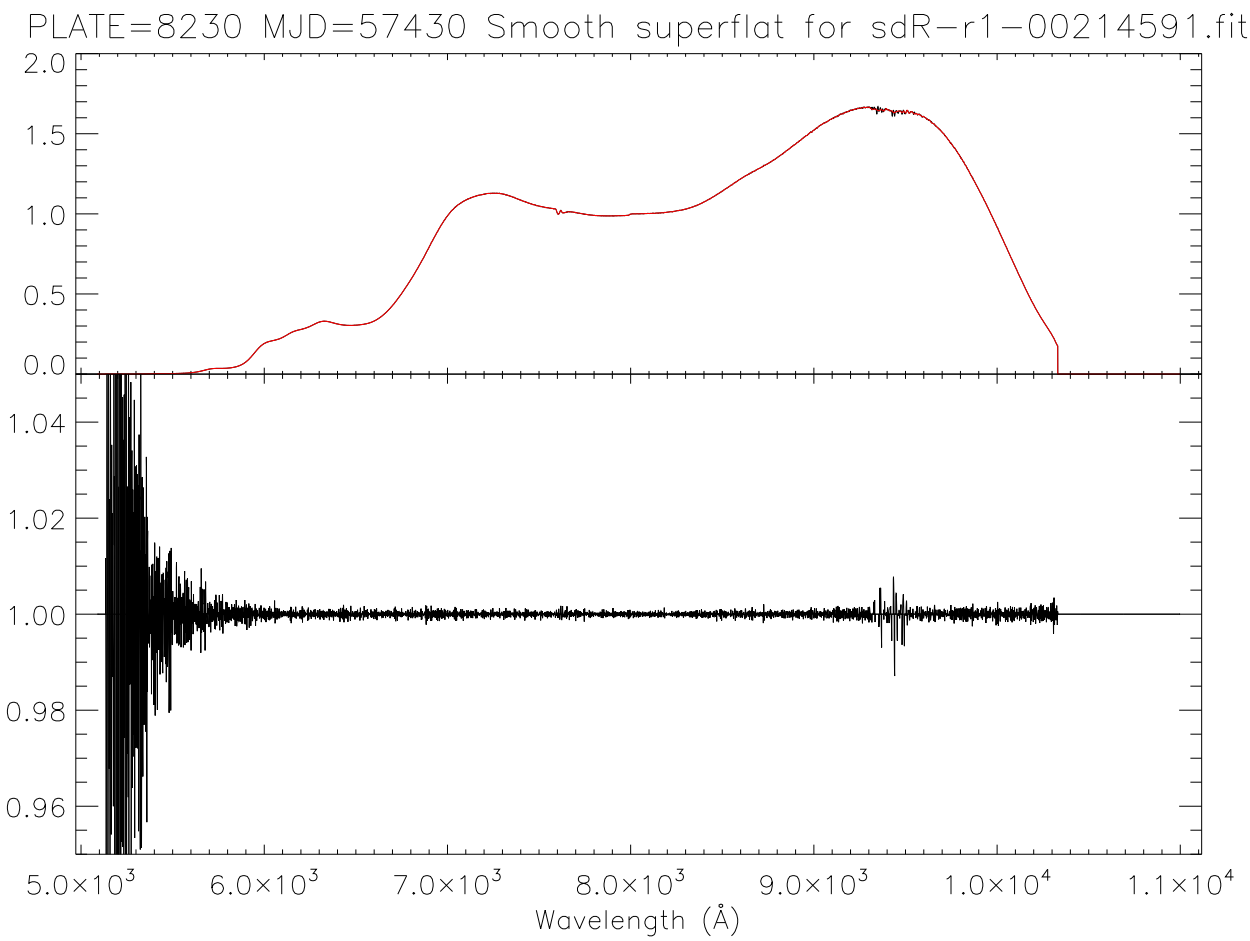

PLATE=8230 MJD=57430 Arcline Fit for sdR-r1-00214589.fit
Fiber Number
500
400
300
200
100
0
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A] + 300 * Deviation

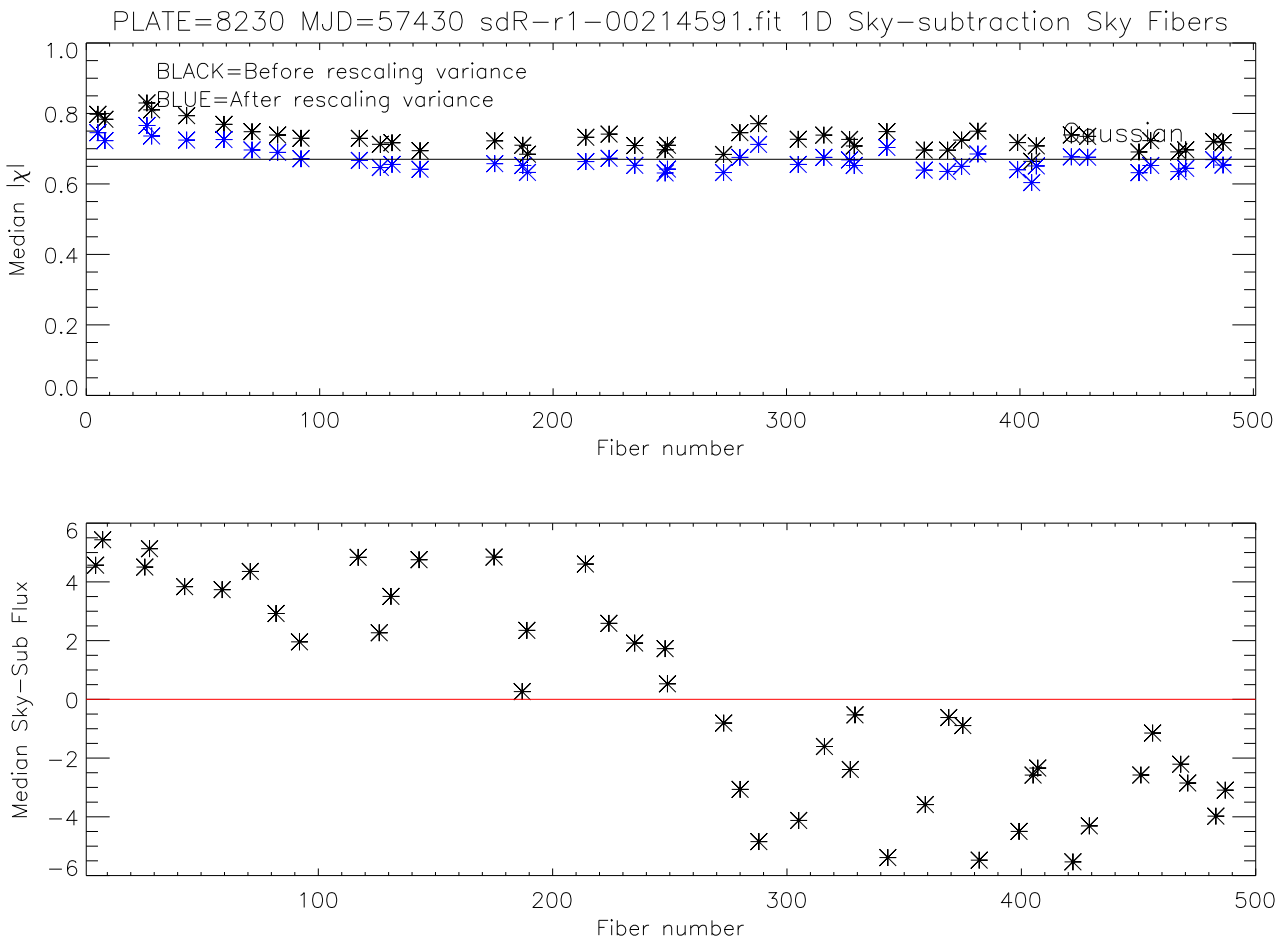
Ncoeff = 6
Deviation [pix]
0.15
0.10
0.05
−0.00
−0.05
−0.10
−0.15
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Sun May 29 11:50:19 2016

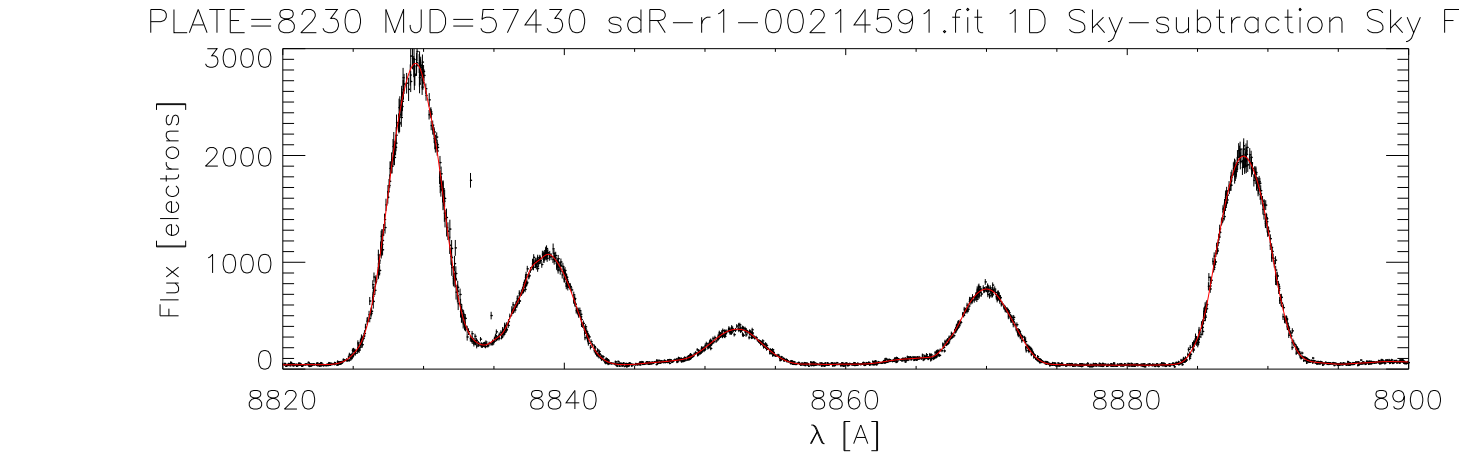

PLATE=8230 MJD=57430 Fiber−Flats for sdR−r1−00214590.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −13.999
Max value = 84.397
Fiber−Flat
1.5
1.0
0.5
0.0
6000
7000
8000
9000
10000
λ [A]
Sun May 29 11:50:33 2016

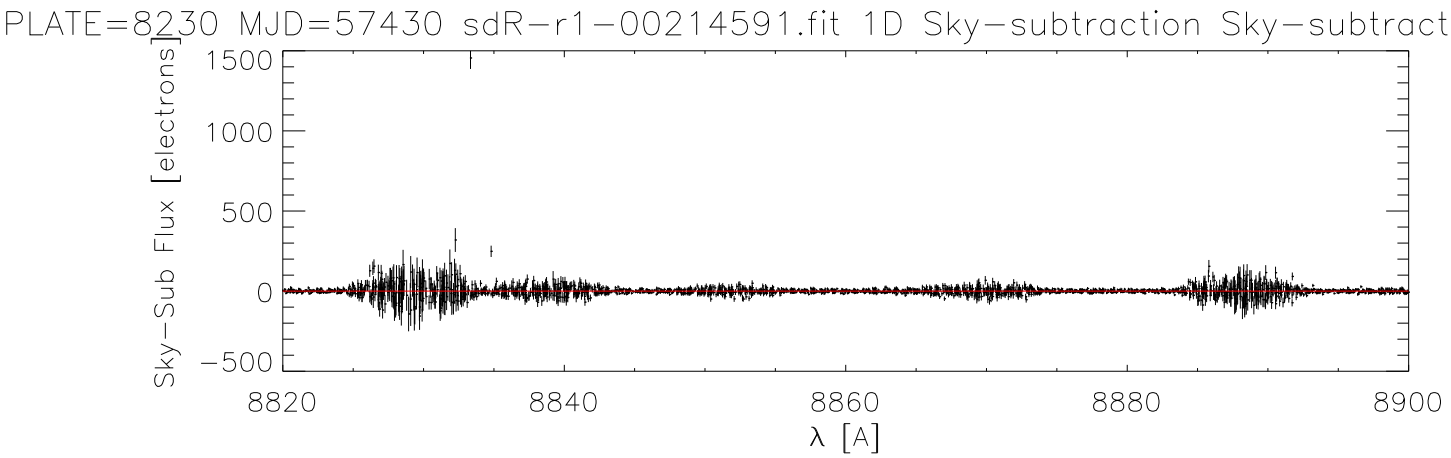

PLATE=8230 MJD=57430 Extraction chi^2 for sdR−r1−00214591.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=8230 MJD=57430 Sky Line Deviations for sdR-r1-00214591.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

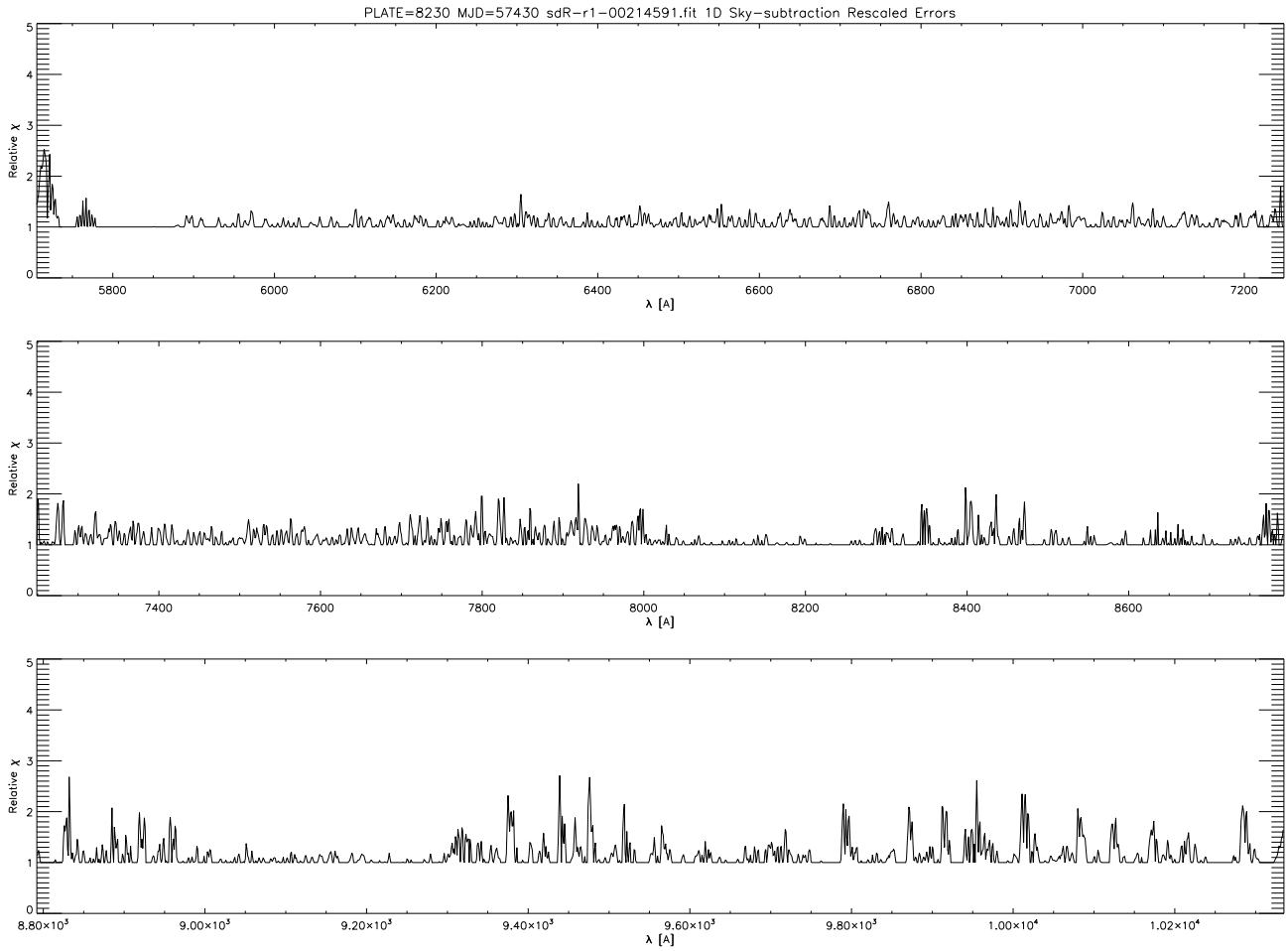

PLATE=8230 MJD=57430 Smooth superflat for sdR-r1-00214591.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

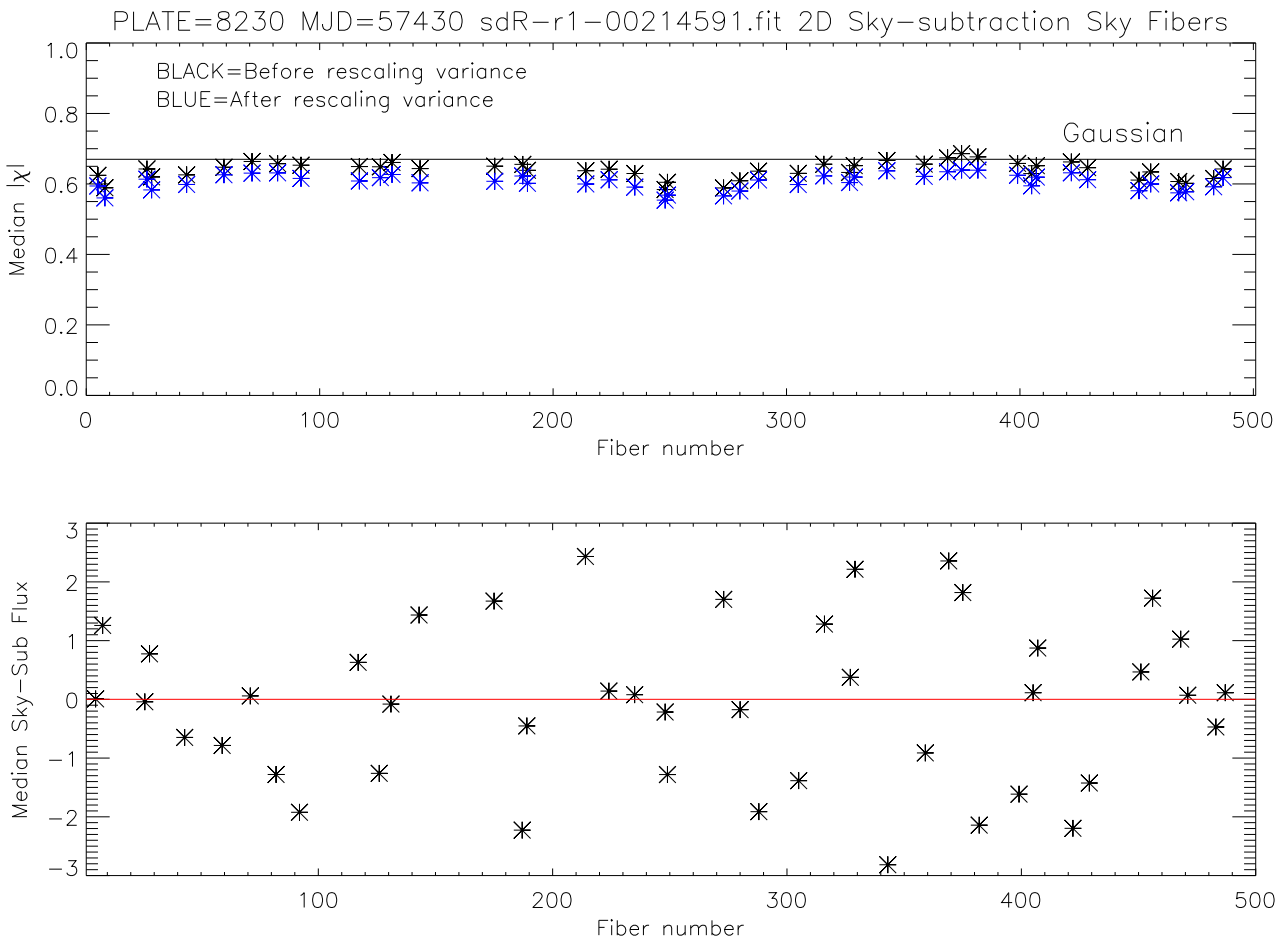

PLATE=8230 MJD=57430 sdR-r1-00214591.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

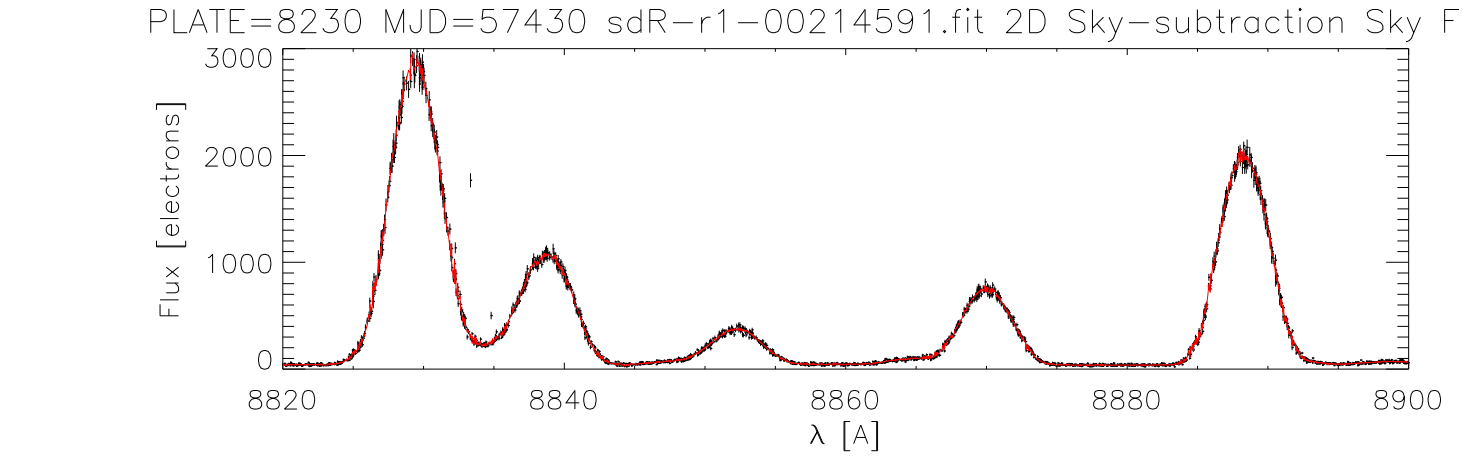

PLATE=8230 MJD=57430 sdR-r1-00214591.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

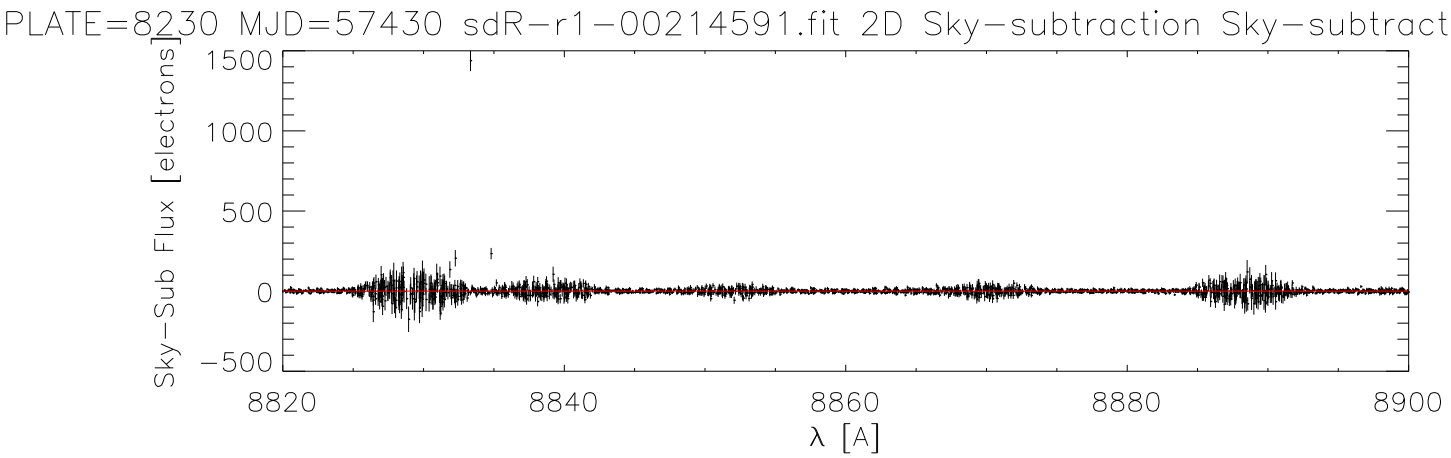

PLATE=8230 MJD=57430 sdR-r1-00214591.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 44

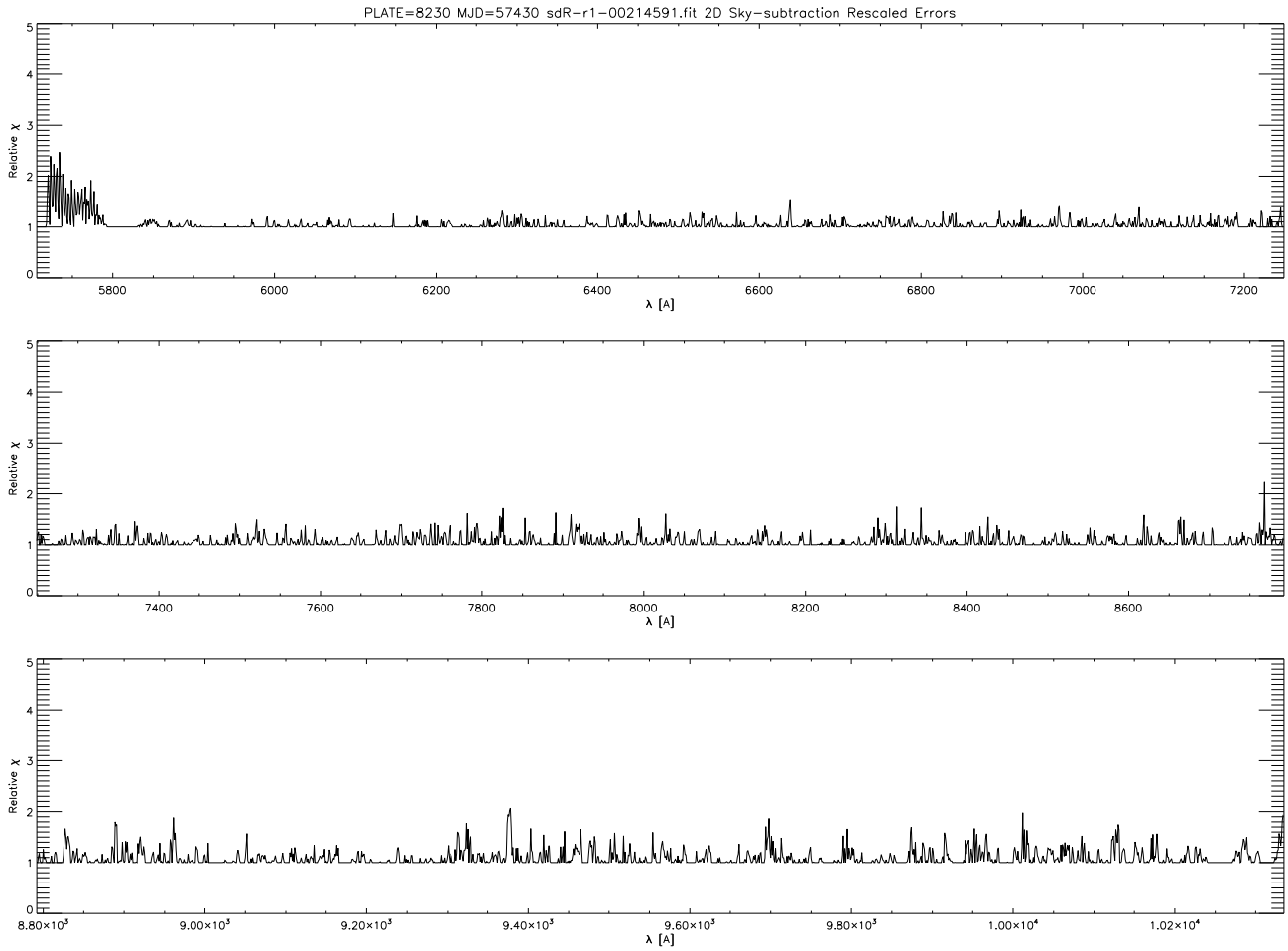


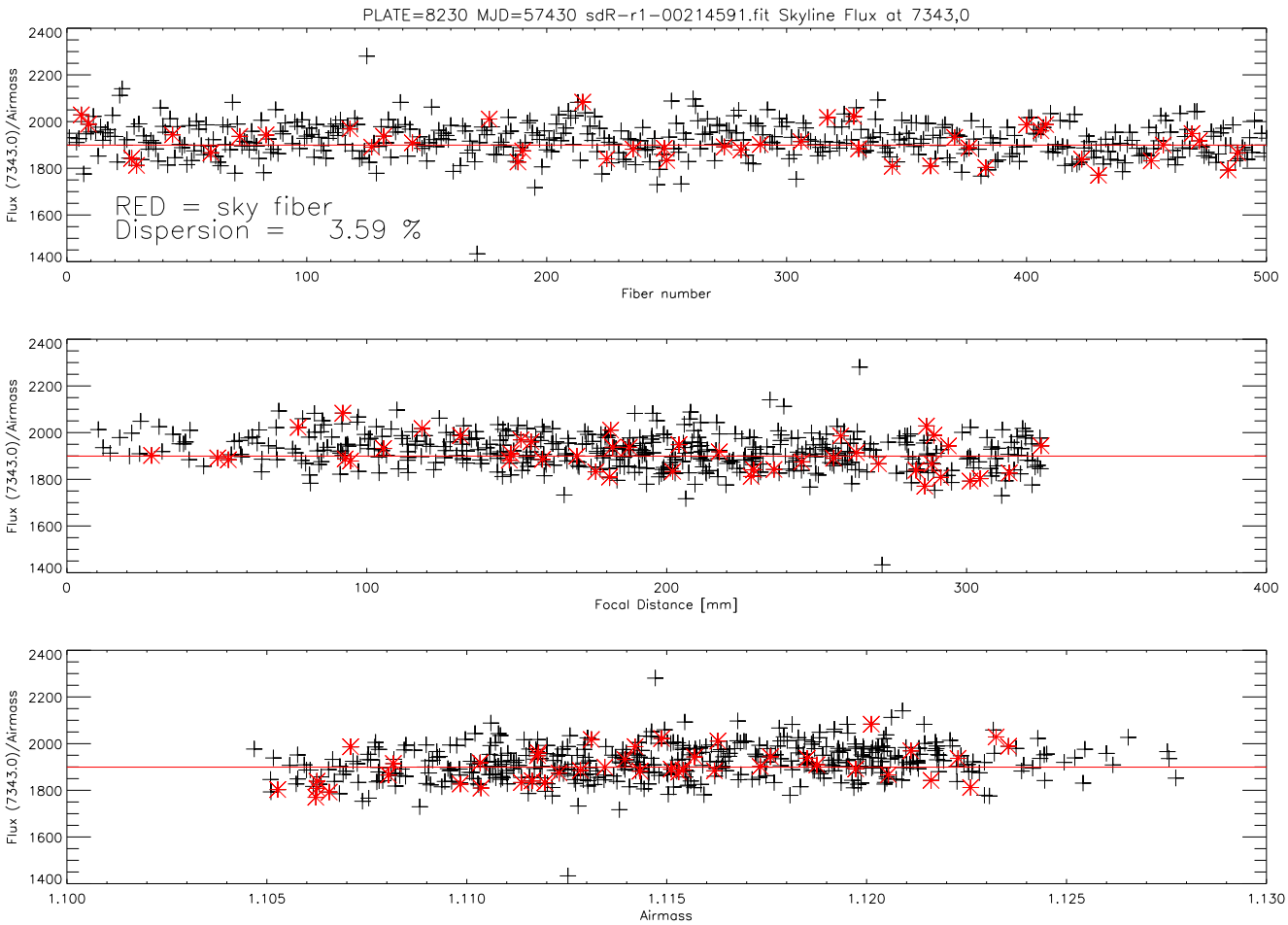

PLATE=8230 MJD=57430 sdR-r1-00214591.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

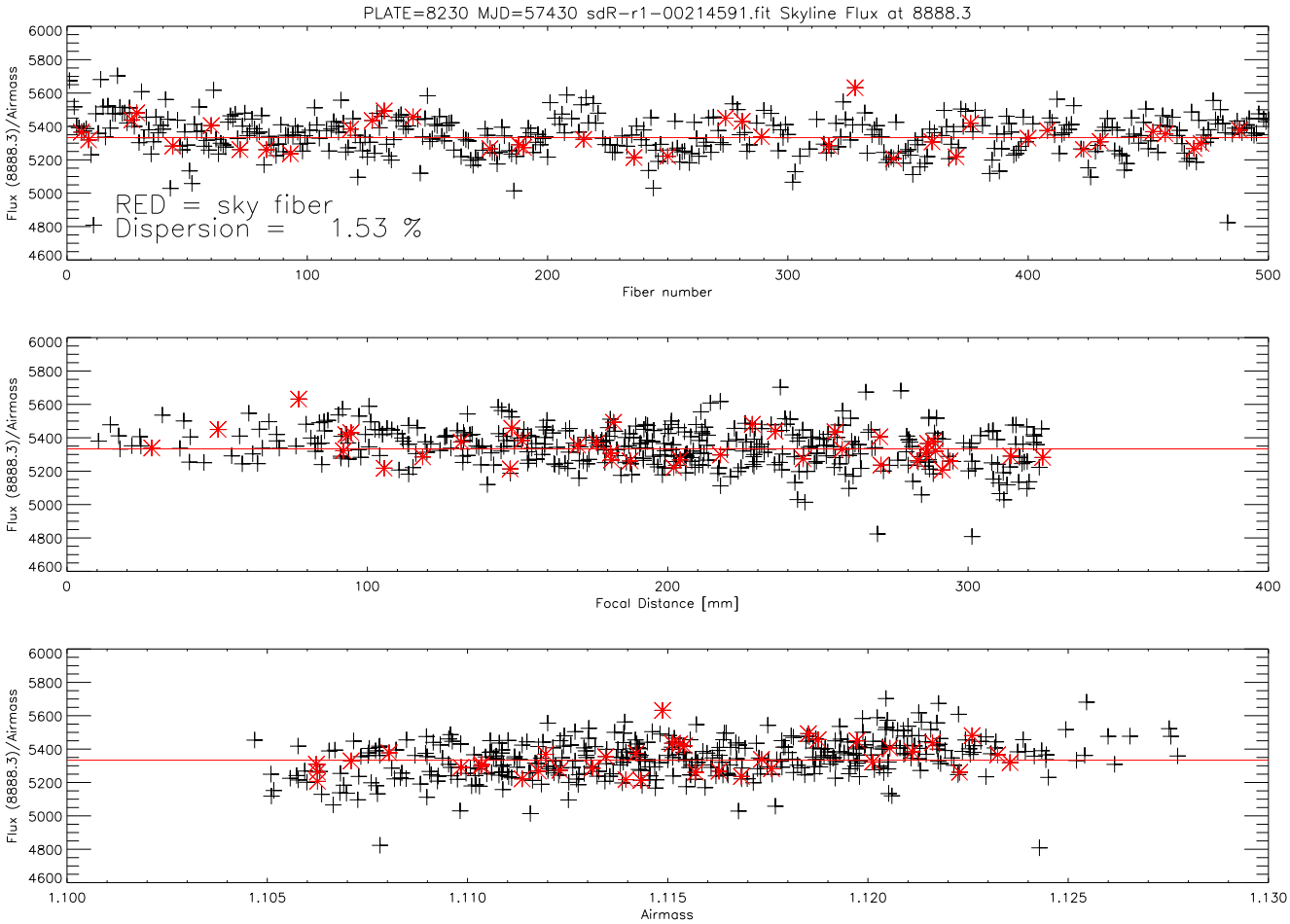

PLATE=8230 MJD=57430 sdR-r1-00214591.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

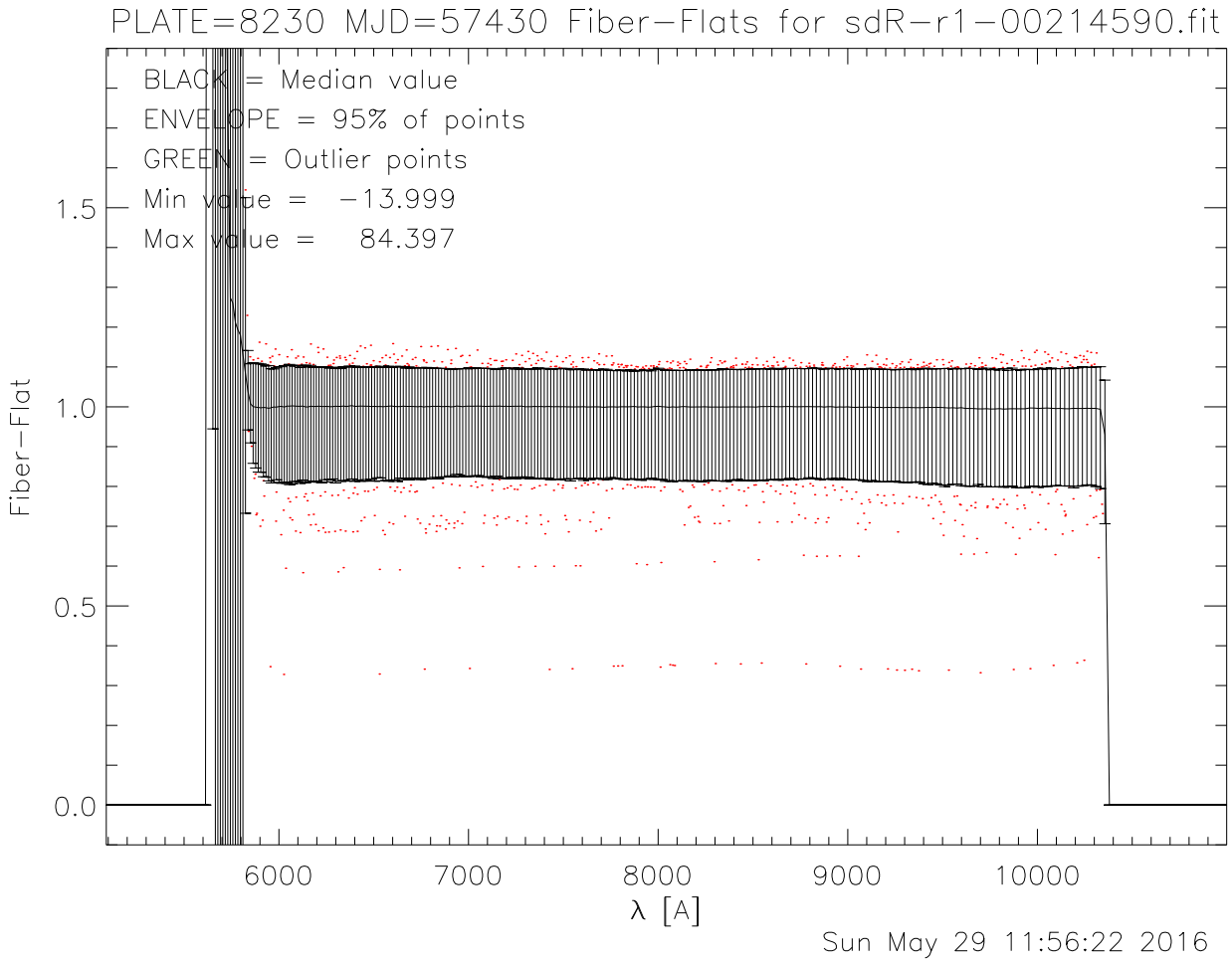

PLATE=8230 MJD=57430 sdR-r1-00214591.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

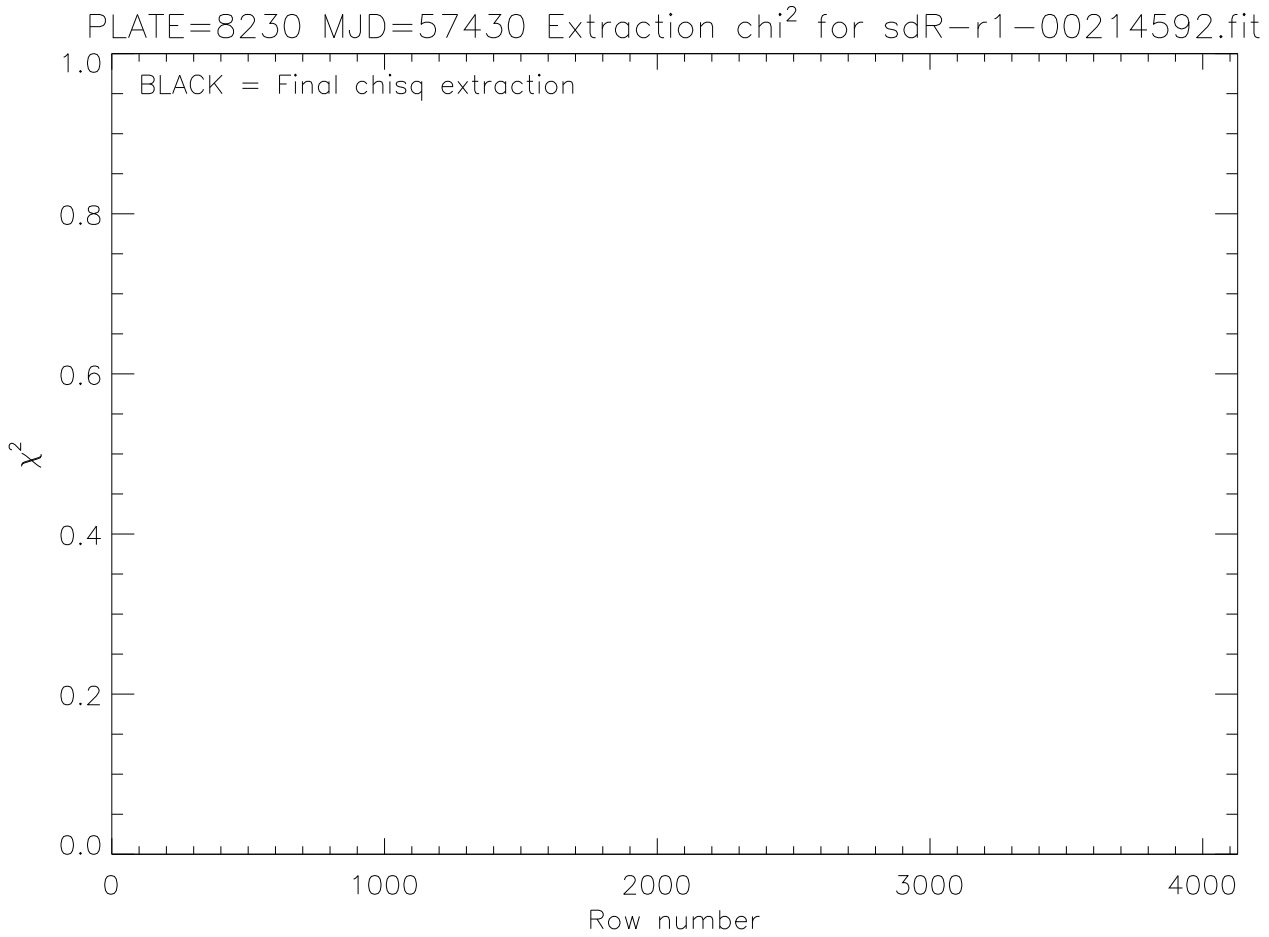
Number of sky fibers = 44

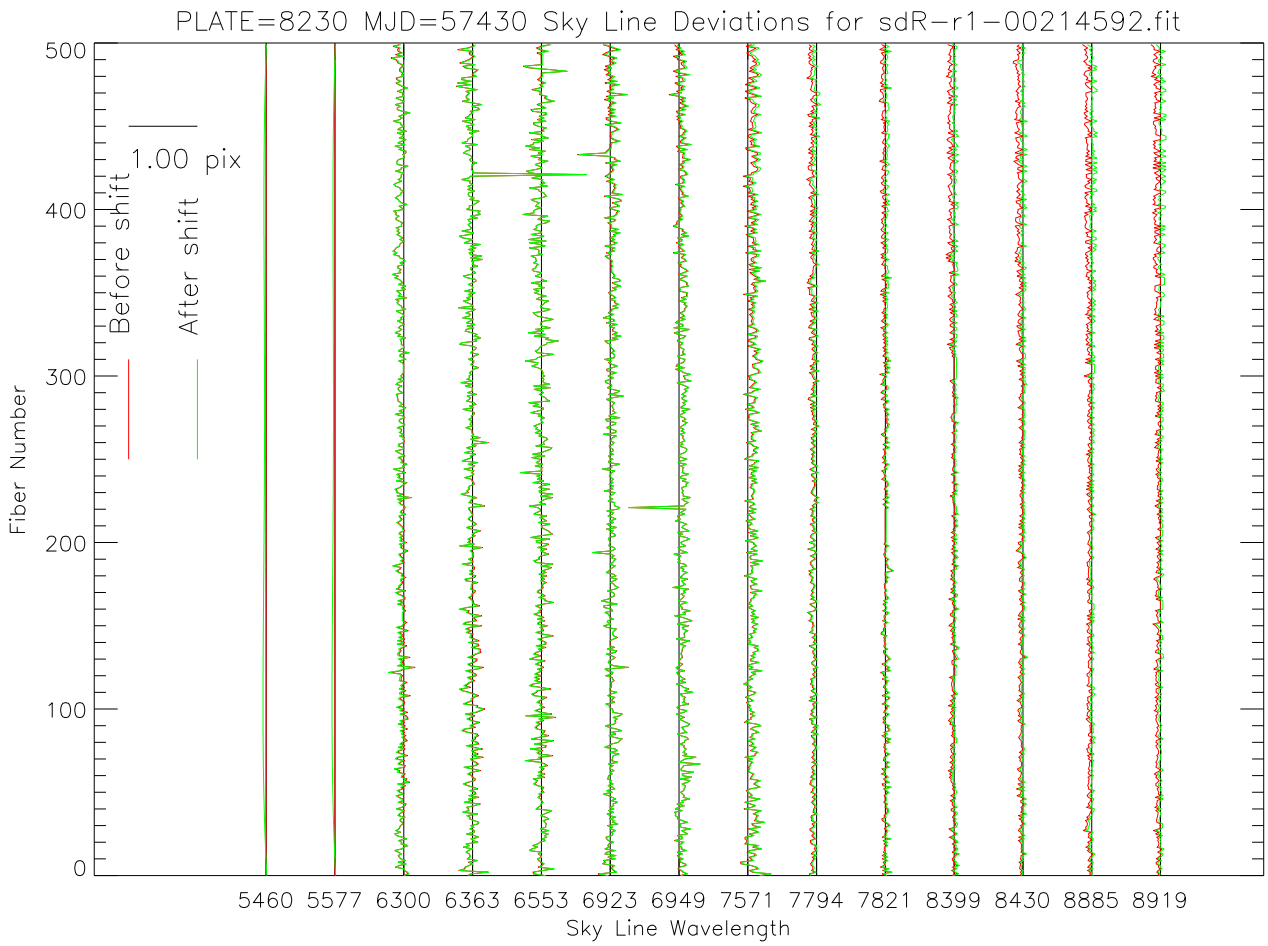


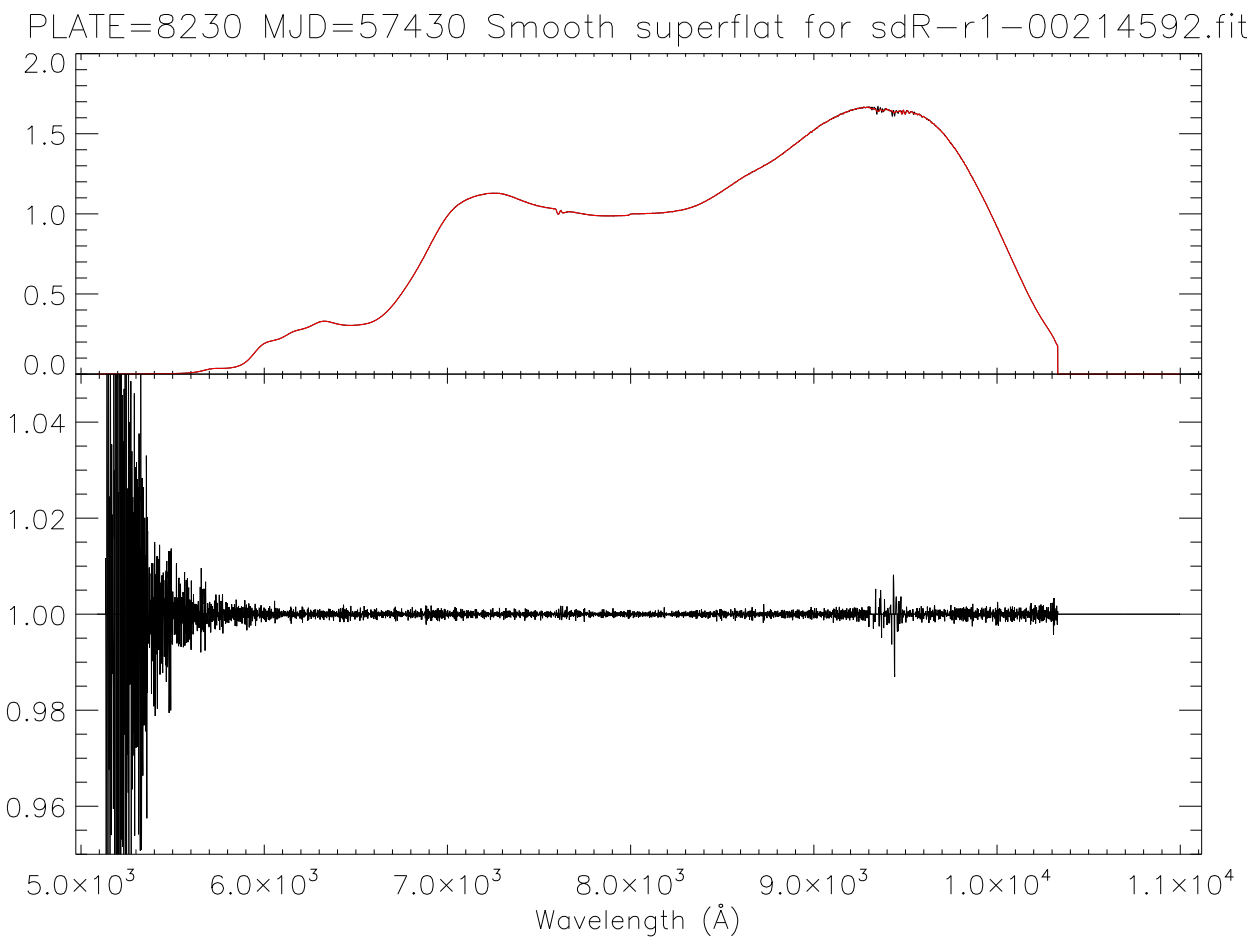

PLATE=8230 MJD=57430 sdR-r1-00214591.fit Skyline Flux at 7343.0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.59 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

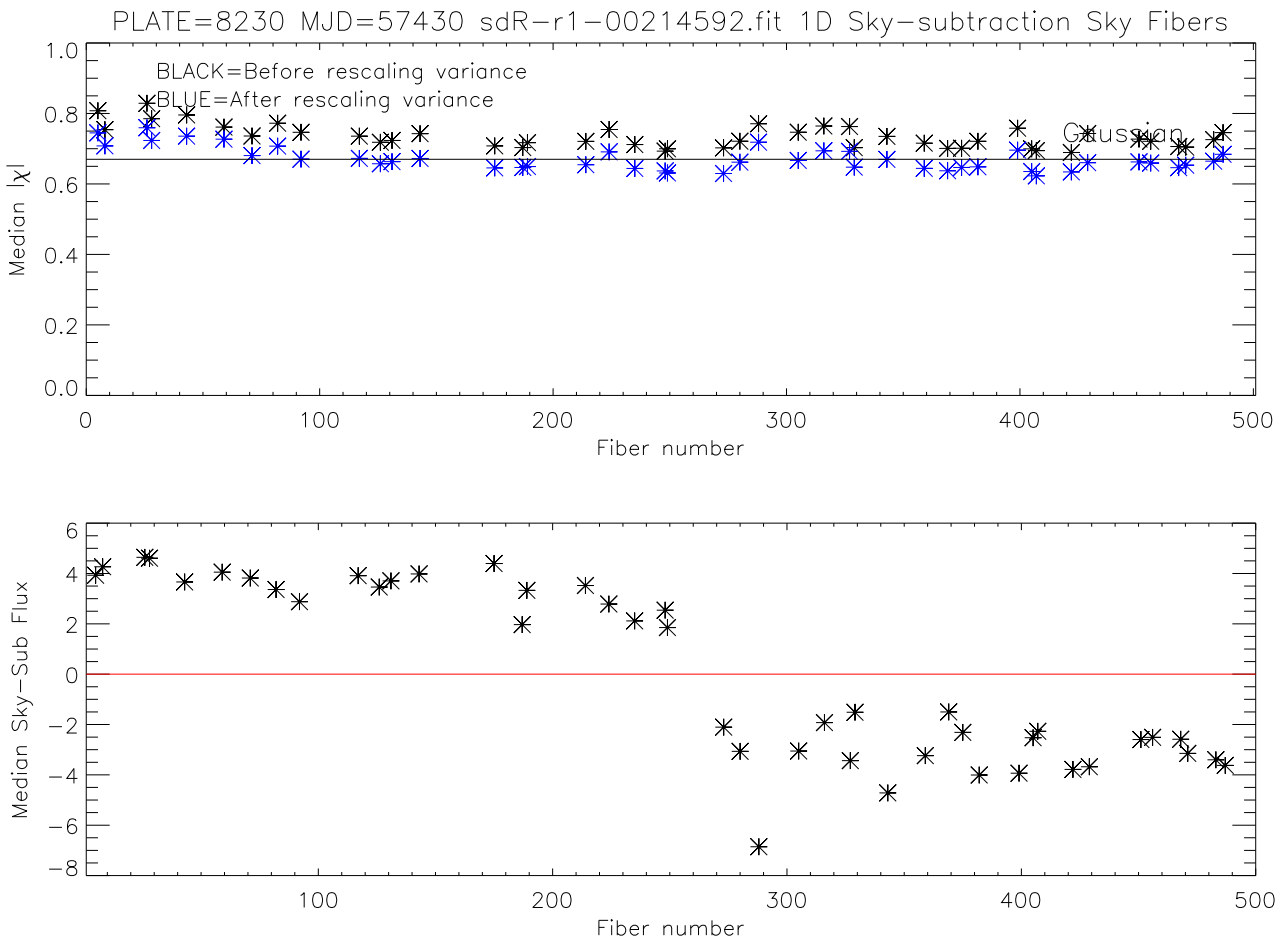

PLATE=8230 MJD=57430 sdR-r1-00214591.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.53 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

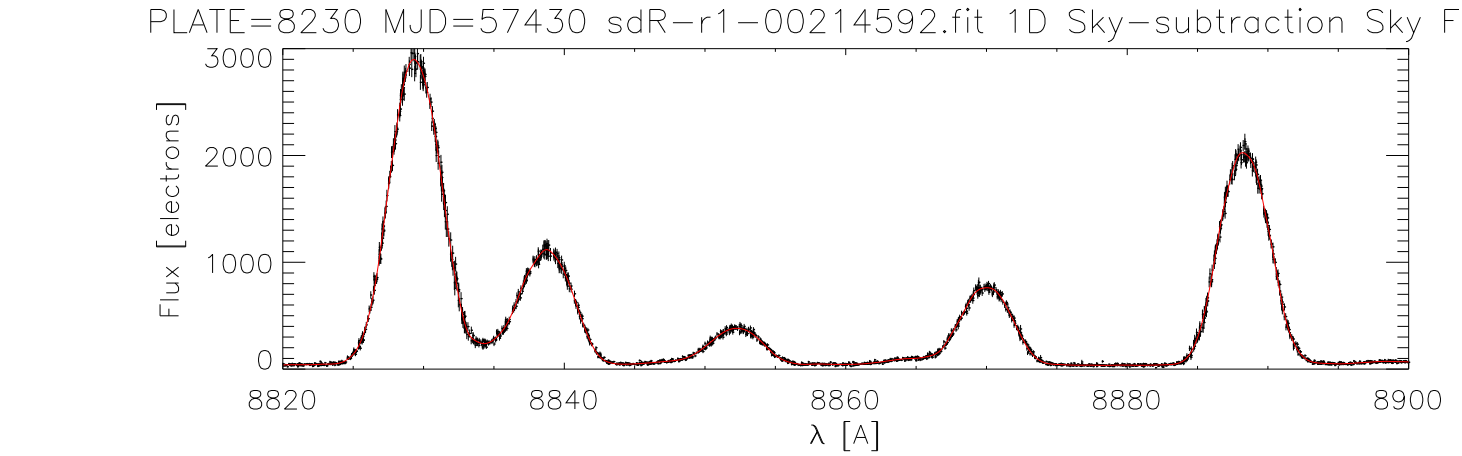

PLATE=8230 MJD=57430 Fiber−Flats for sdR−r1−00214590.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −13.999
Max value = 84.397
Fiber−Flat
1.5
1.0
0.5
0.0
6000
7000
8000
9000
10000
λ [A]
Sun May 29 11:56:22 2016

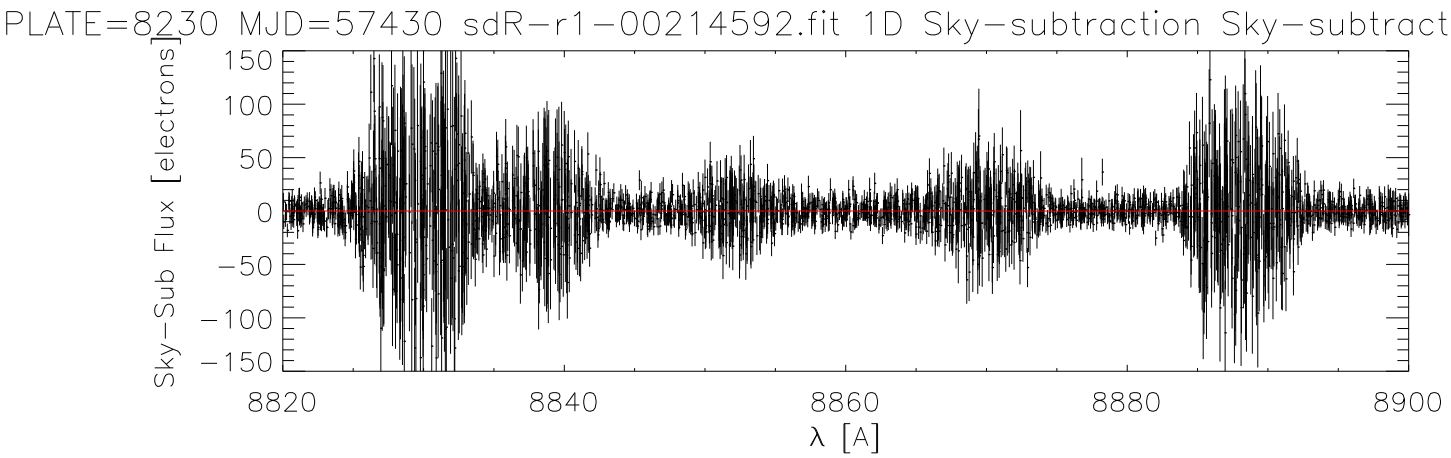

PLATE=8230 MJD=57430 Extraction chi^2 for sdR−r1−00214592.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=8230 MJD=57430 Sky Line Deviations for sdR-r1-00214592.fit
Fiber Number
Sky Line Wavelength
Before shift
After shift
1.00 pix
0
100
200
300
400
500
5460 5577 6300 6363 6553 6923 6949 7571 7794 7821 8399 8430 8885 8919

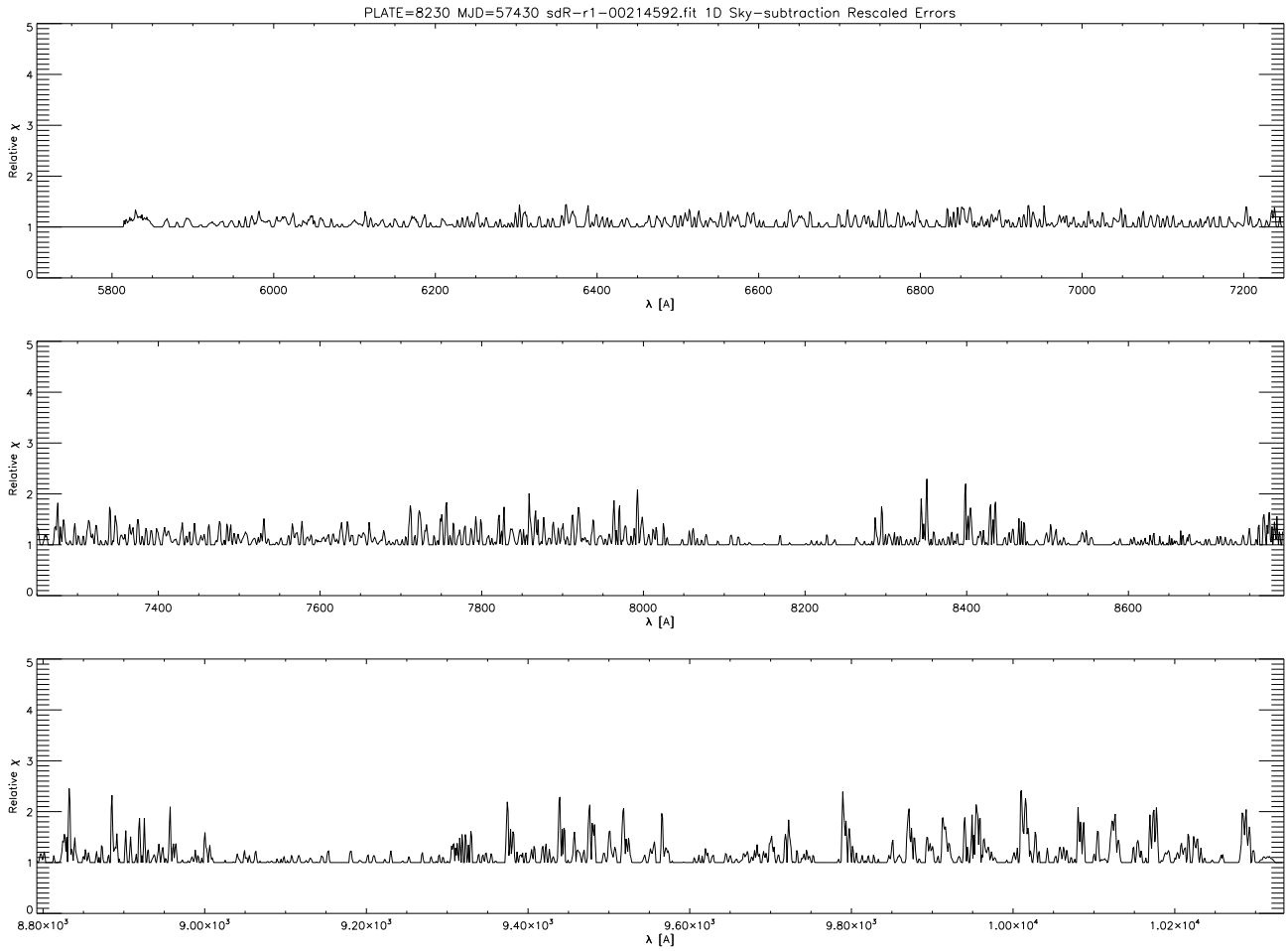

PLATE=8230 MJD=57430 Smooth superflat for sdR-r1-00214592.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

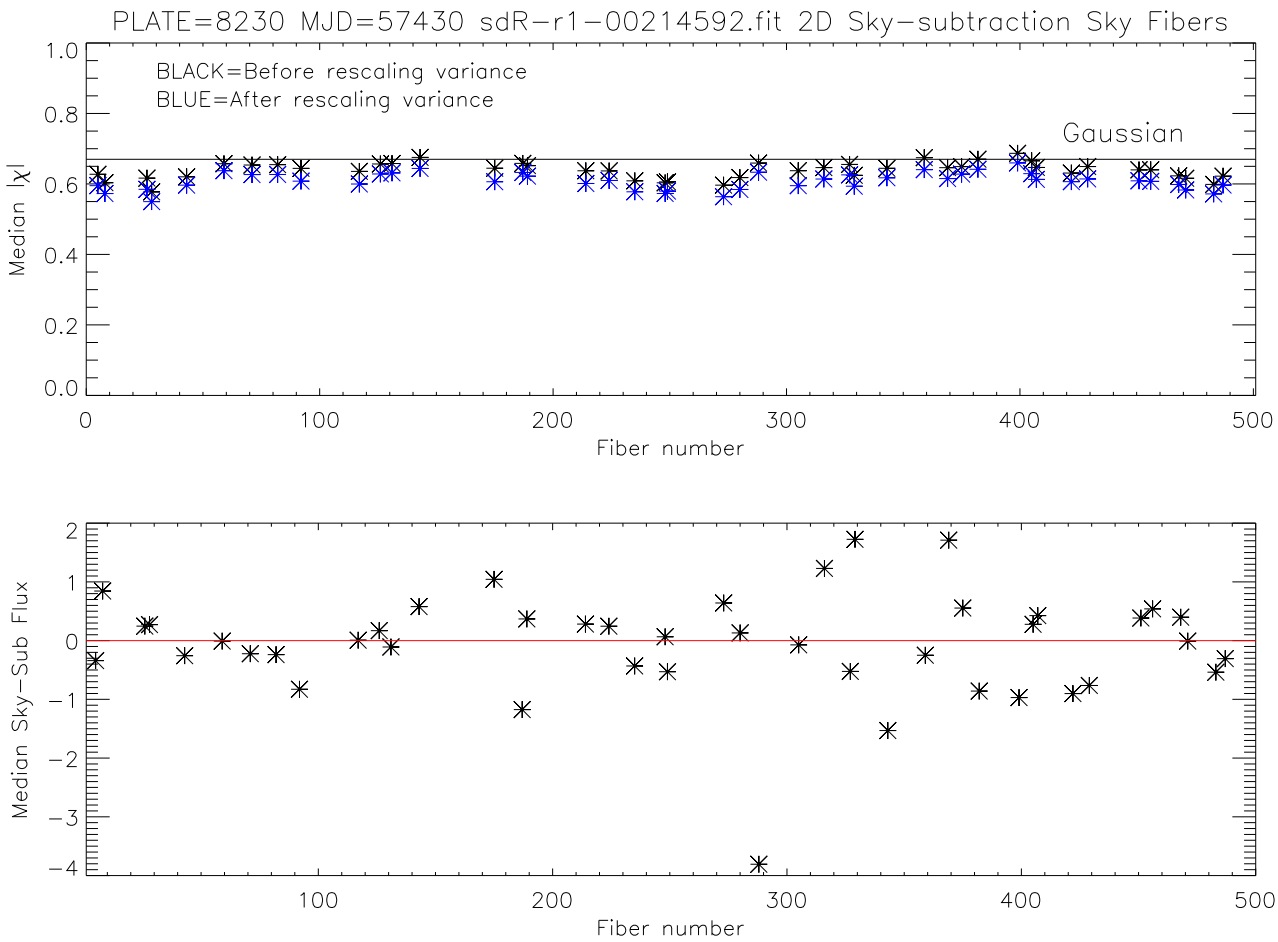

PLATE=8230 MJD=57430 sdR-r1-00214592.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

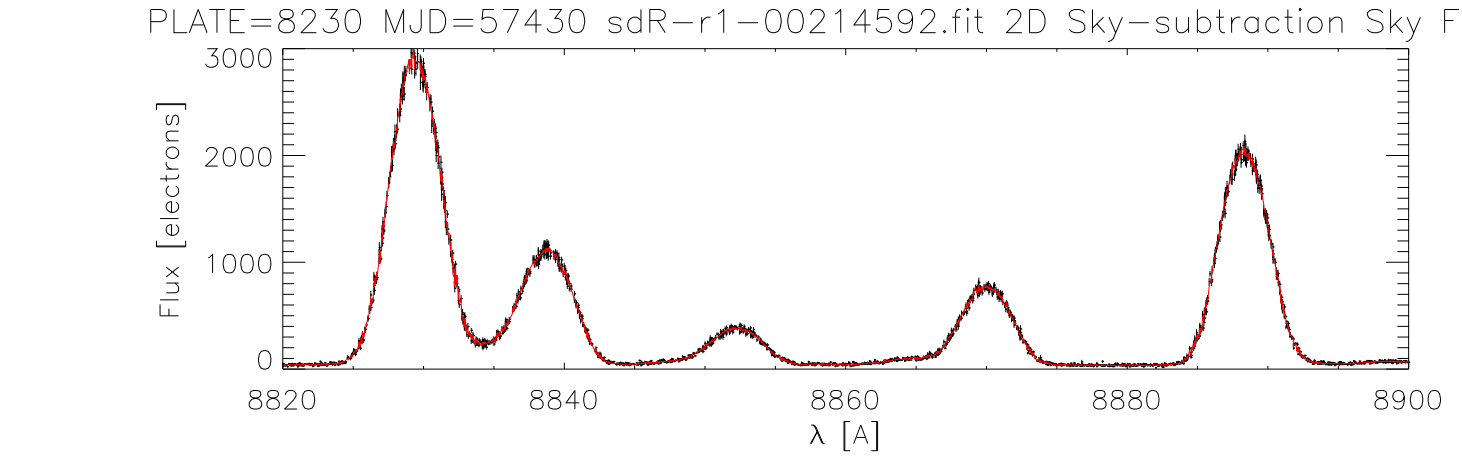

PLATE=8230 MJD=57430 sdR-r1-00214592.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

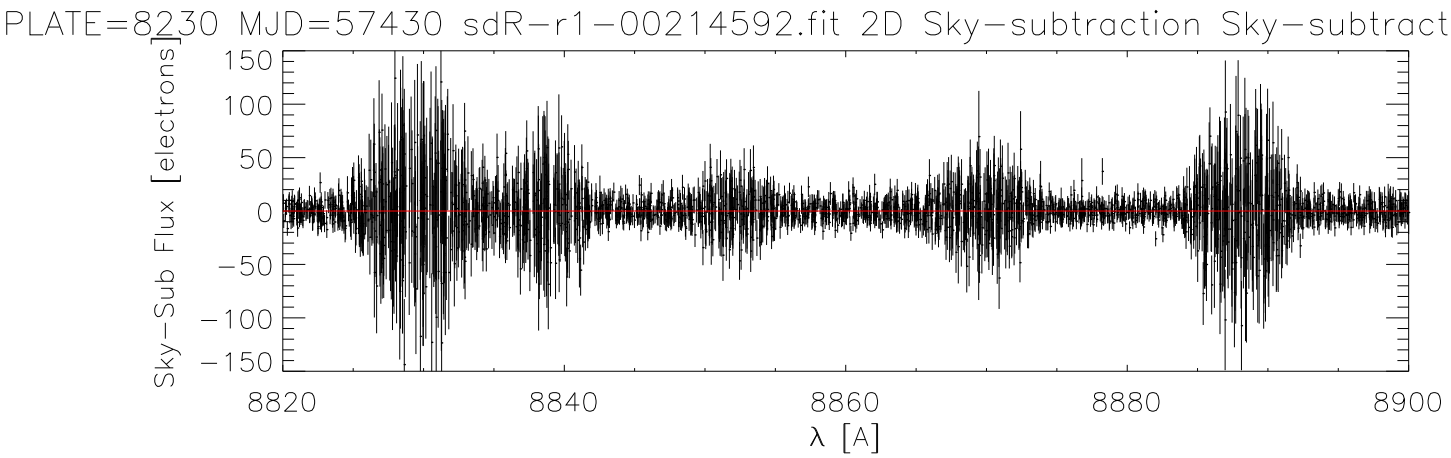

PLATE=8230 MJD=57430 sdR-r1-00214592.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 44

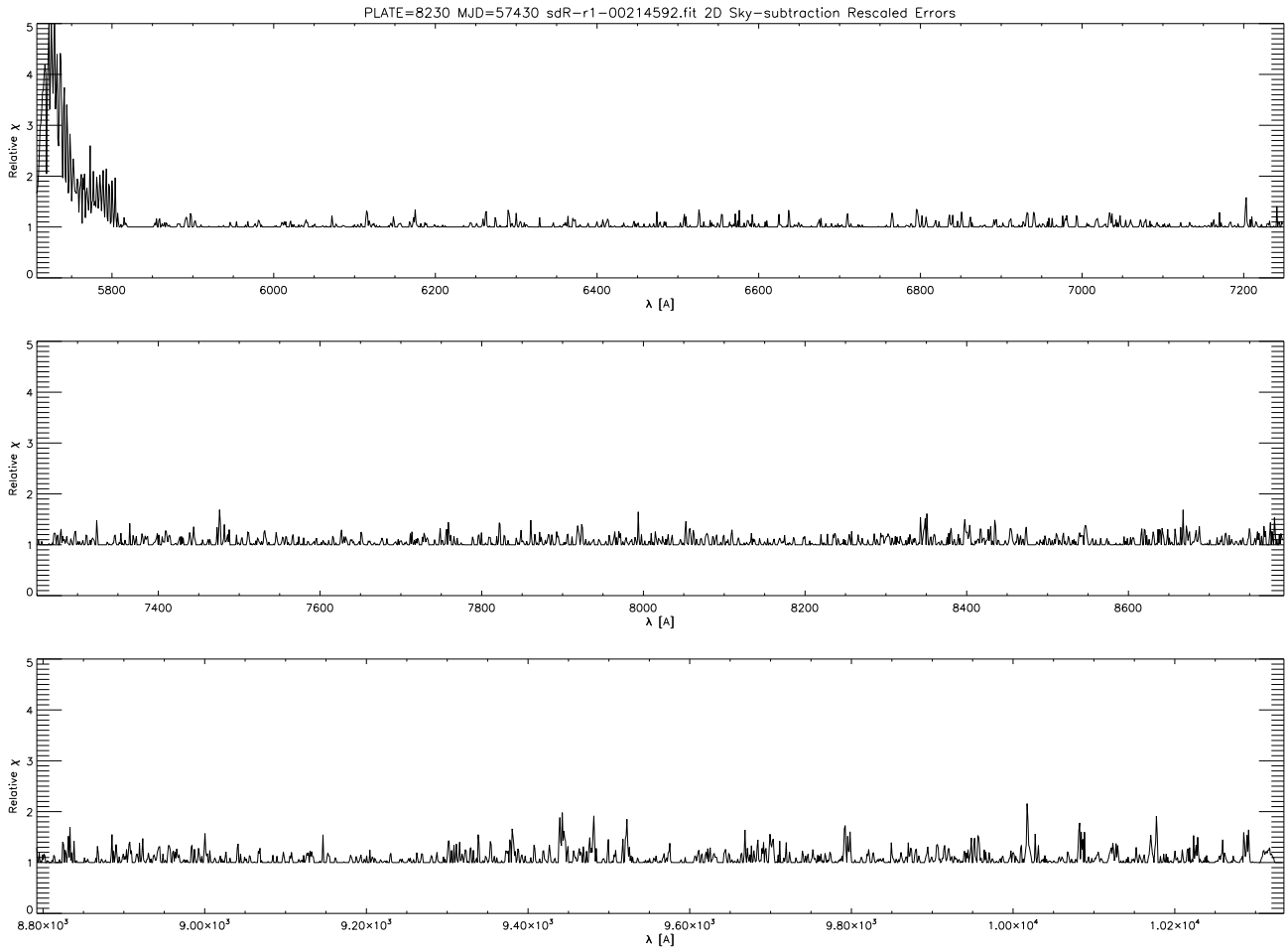


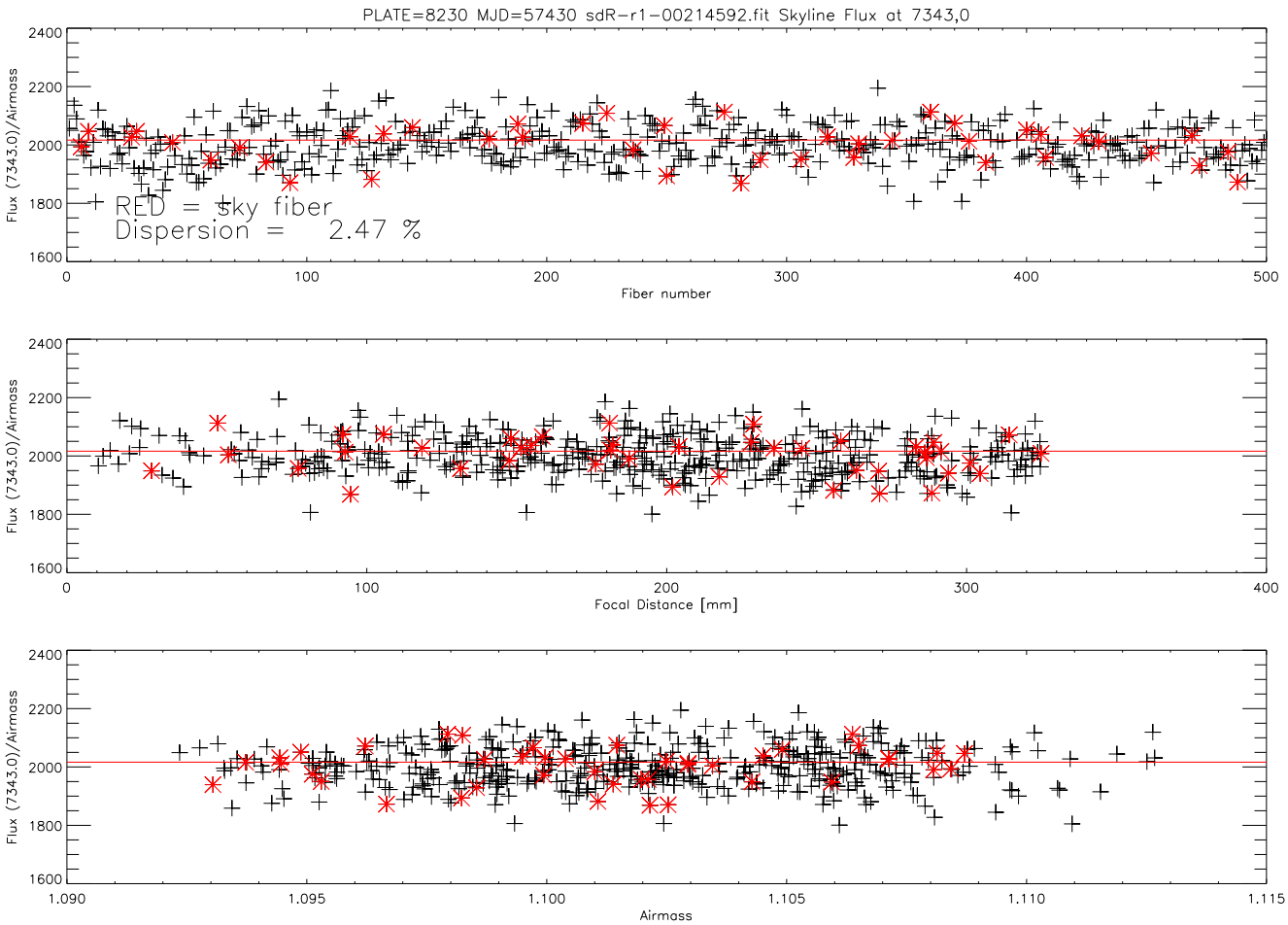

PLATE=8230 MJD=57430 sdR-r1-00214592.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

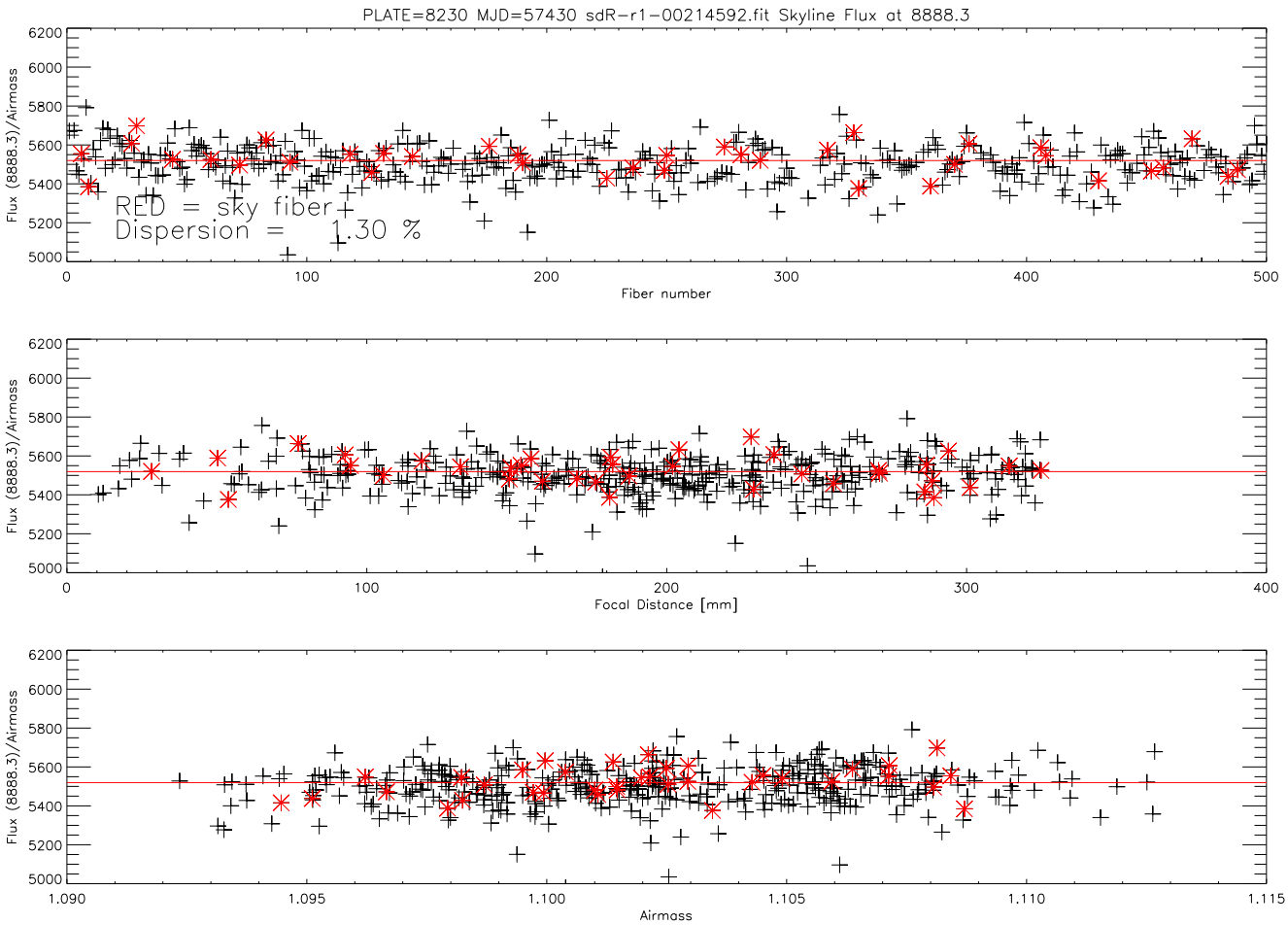

PLATE=8230 MJD=57430 sdR-r1-00214592.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

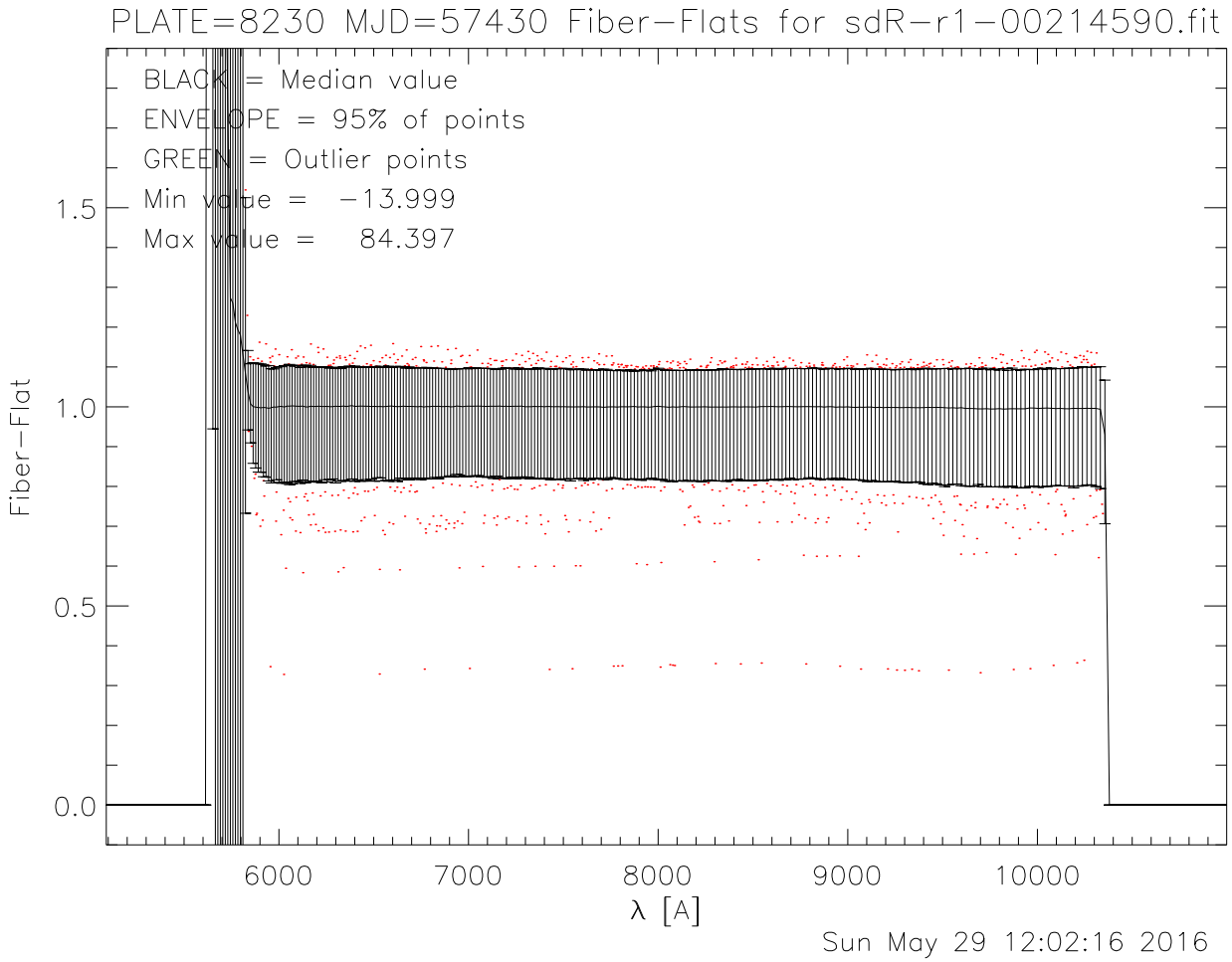

PLATE=8230 MJD=57430 sdR-r1-00214592.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
8820
8840
8860
8880
8900
λ [A]

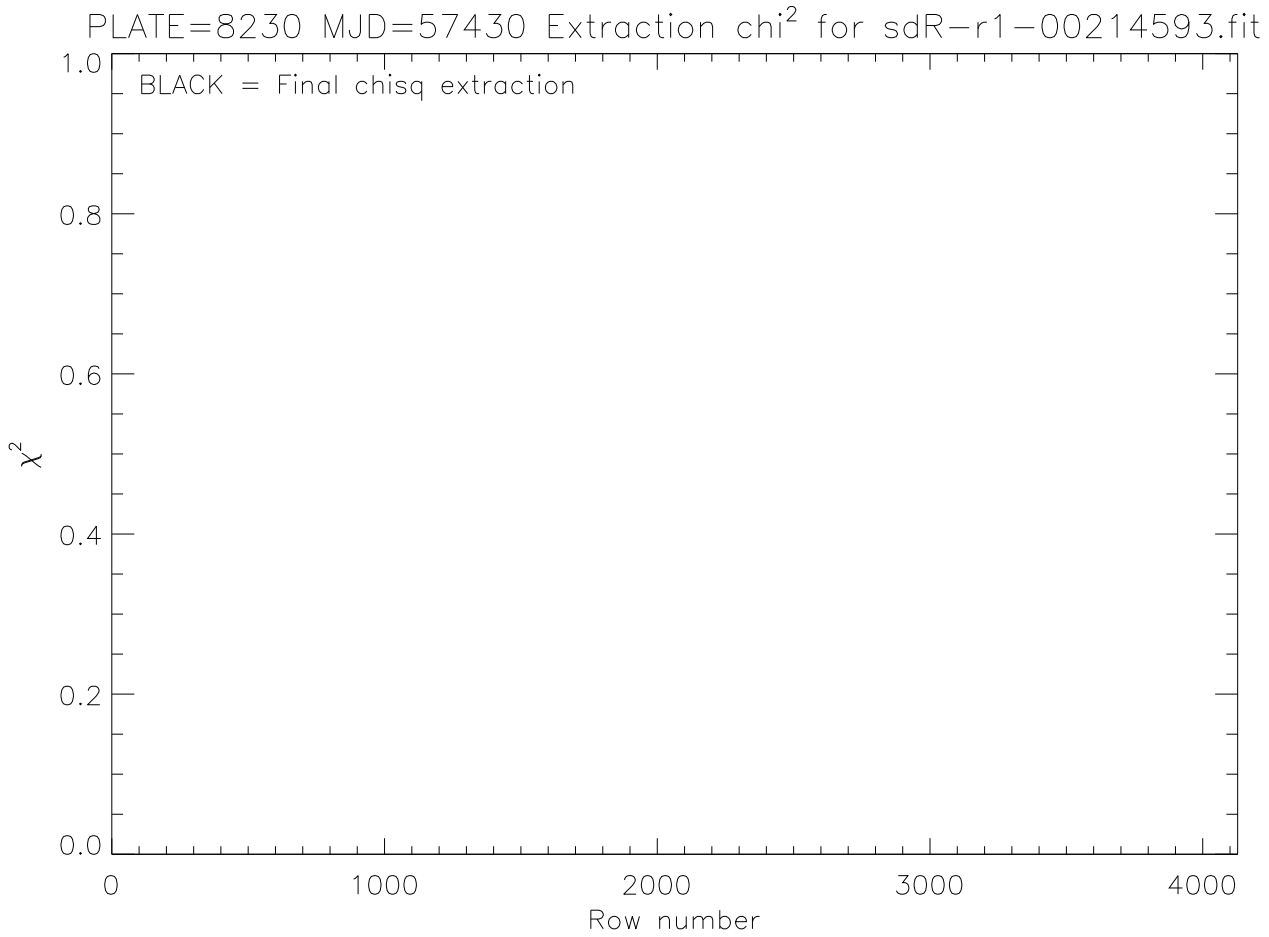
Number of sky fibers = 44

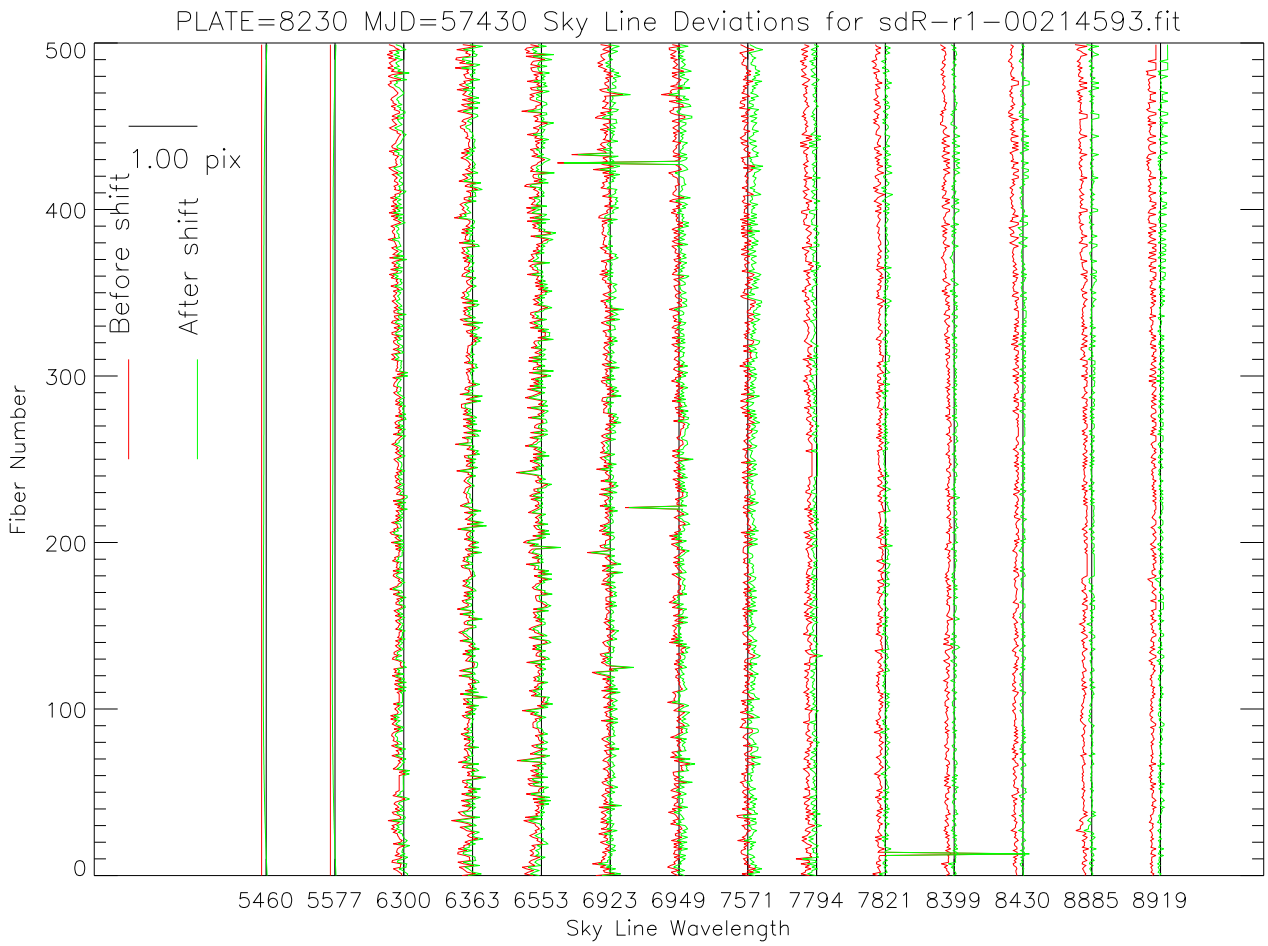


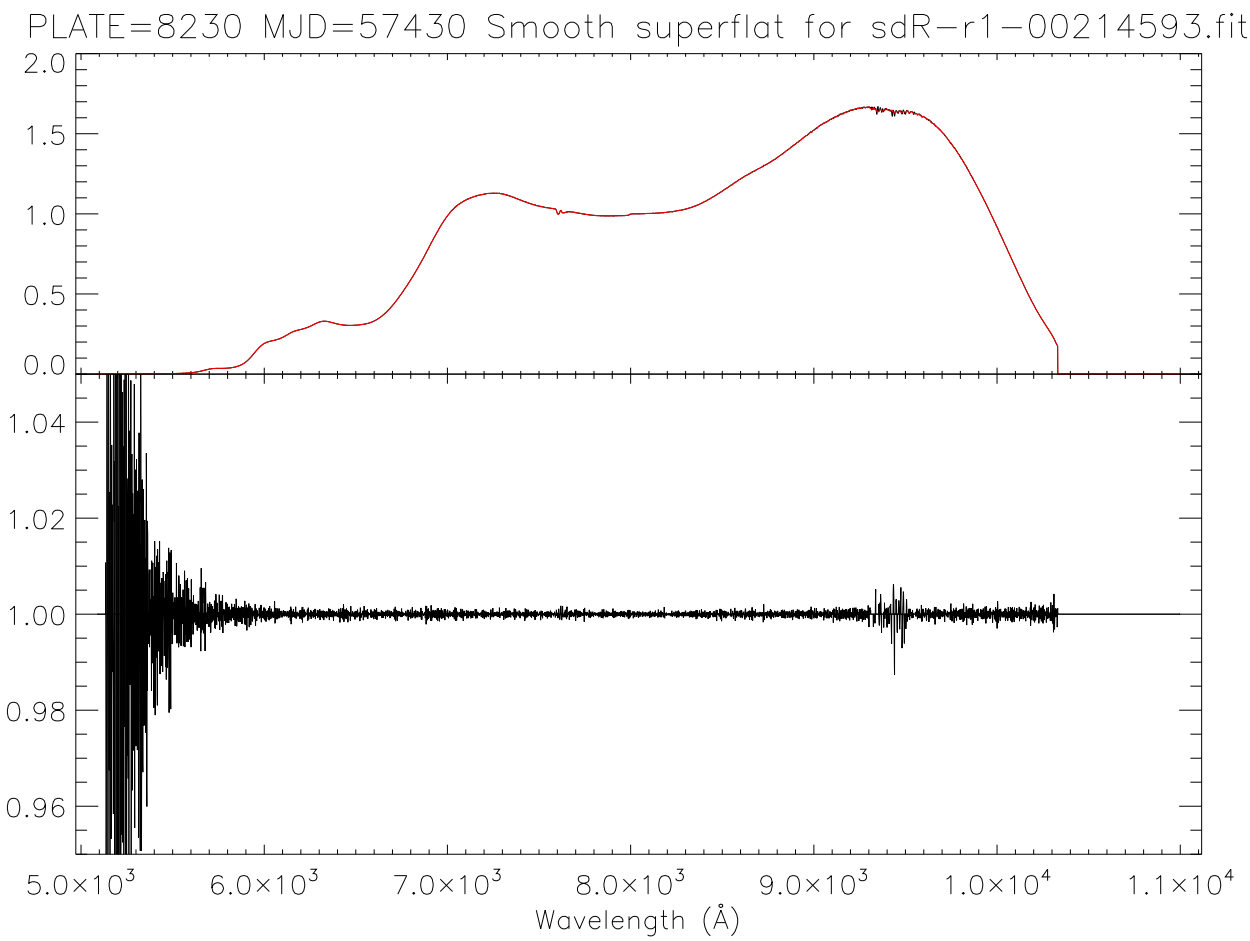

PLATE=8230 MJD=57430 sdR-r1-00214592.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.47 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

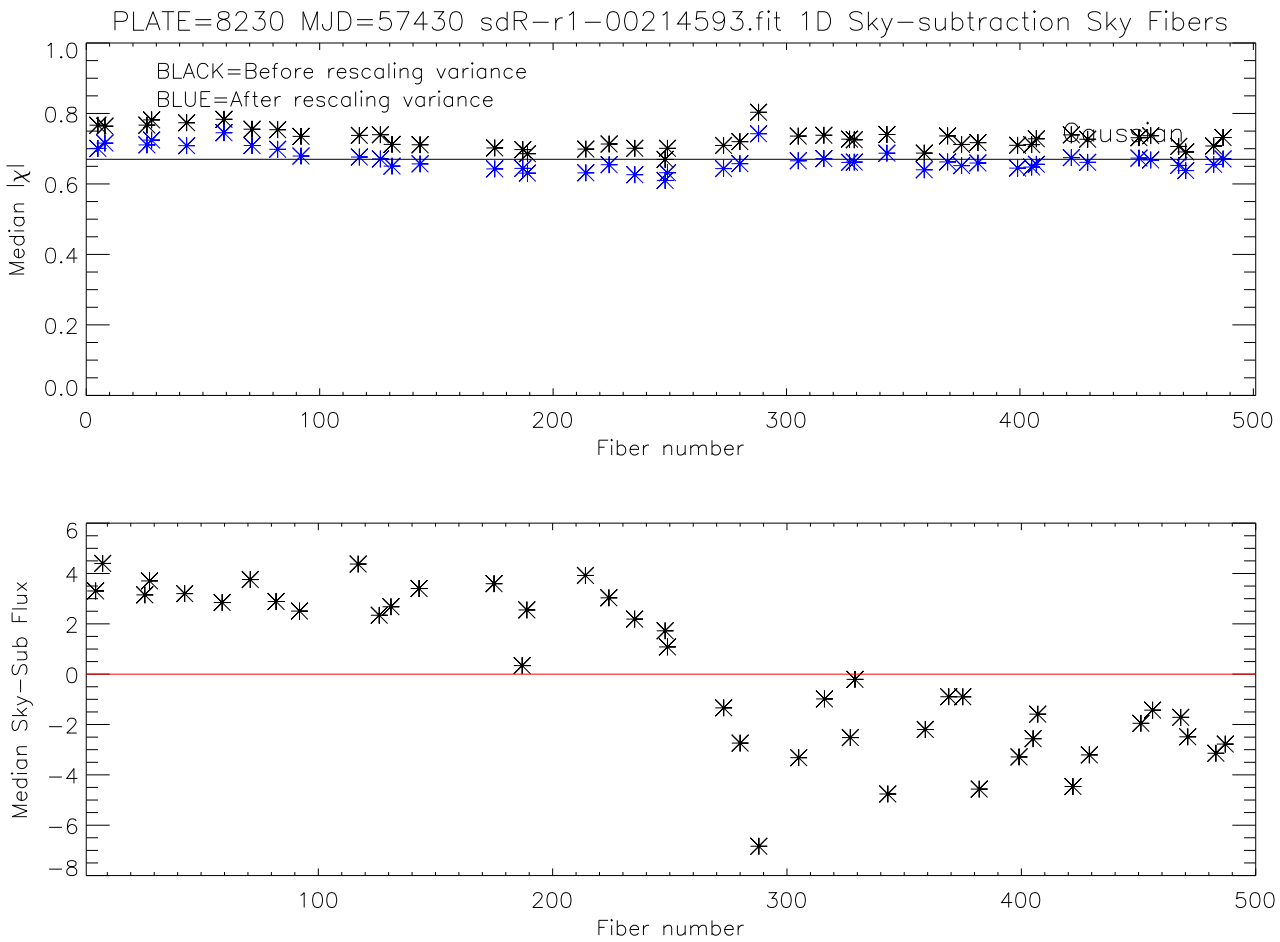

PLATE=8230 MJD=57430 sdR-r1-00214592.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.30 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

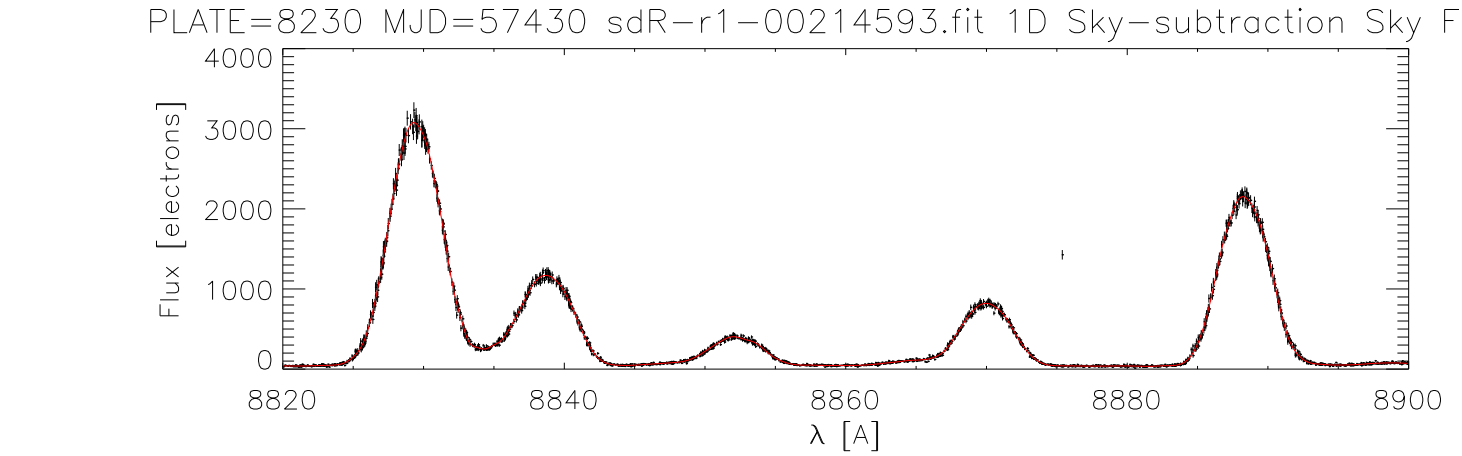

PLATE=8230 MJD=57430 Fiber-Flats for sdR-r1-00214590.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = -13.999
Max value = 84.397
Fiber-Flat
1.5
1.0
0.5
0.0
6000
7000
8000
9000
10000
λ [A]
Sun May 29 12:02:16 2016

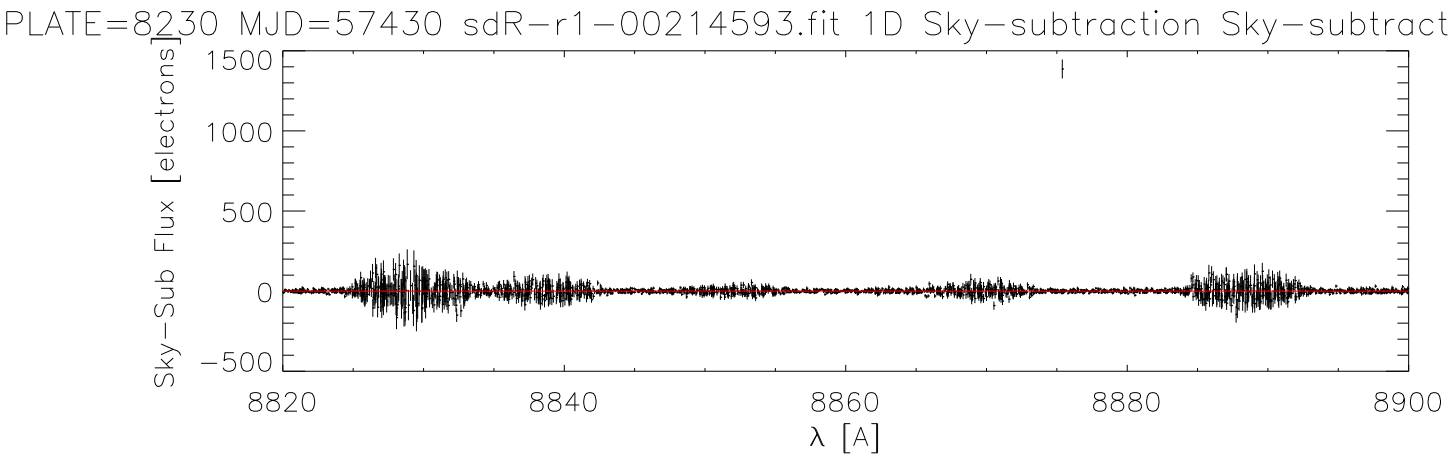

PLATE=8230 MJD=57430 Extraction chi^2 for sdR−r1−00214593.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=8230 MJD=57430 Sky Line Deviations for sdR-r1-00214593.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

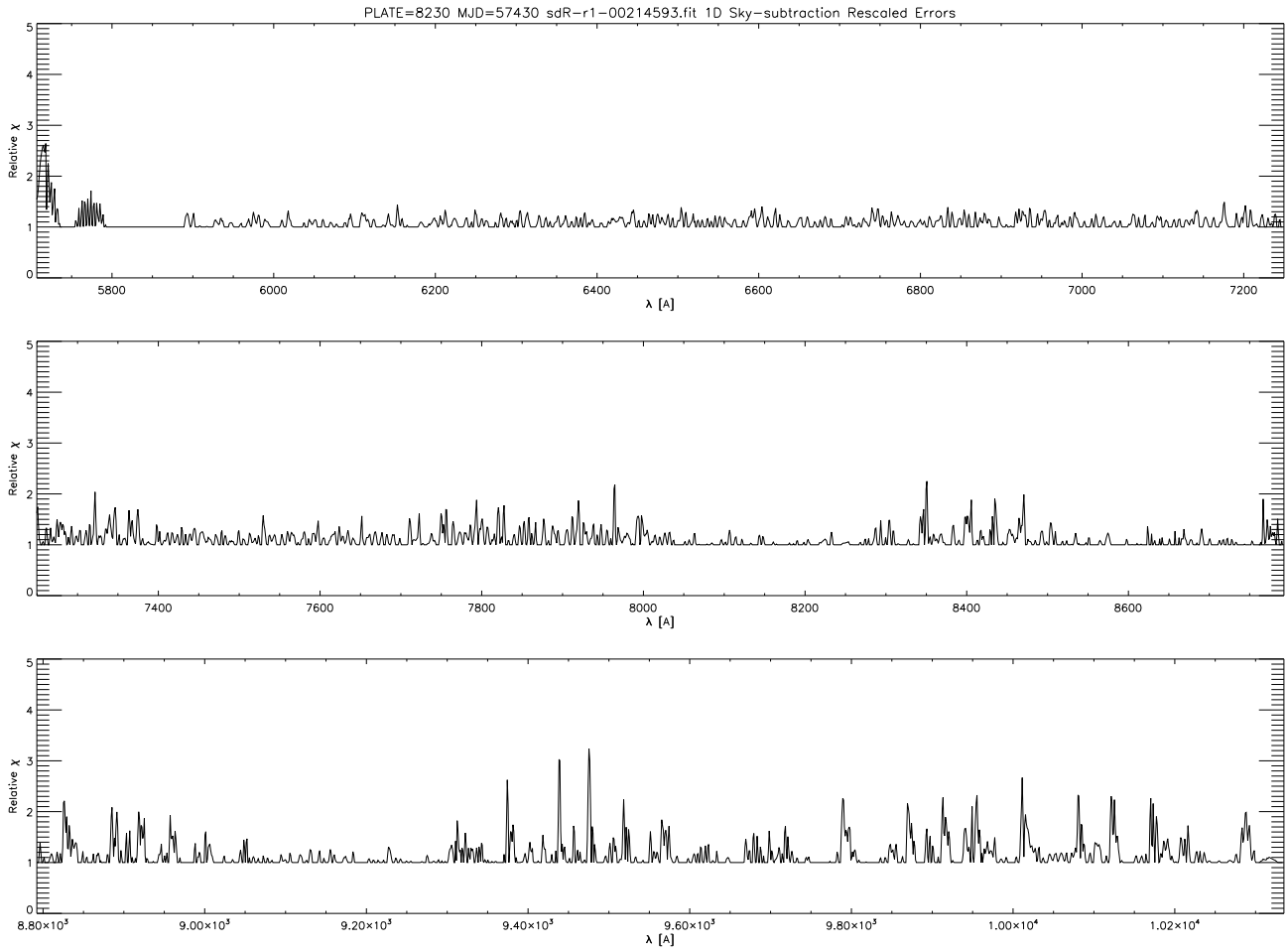

PLATE=8230 MJD=57430 Smooth superflat for sdR-r1-00214593.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

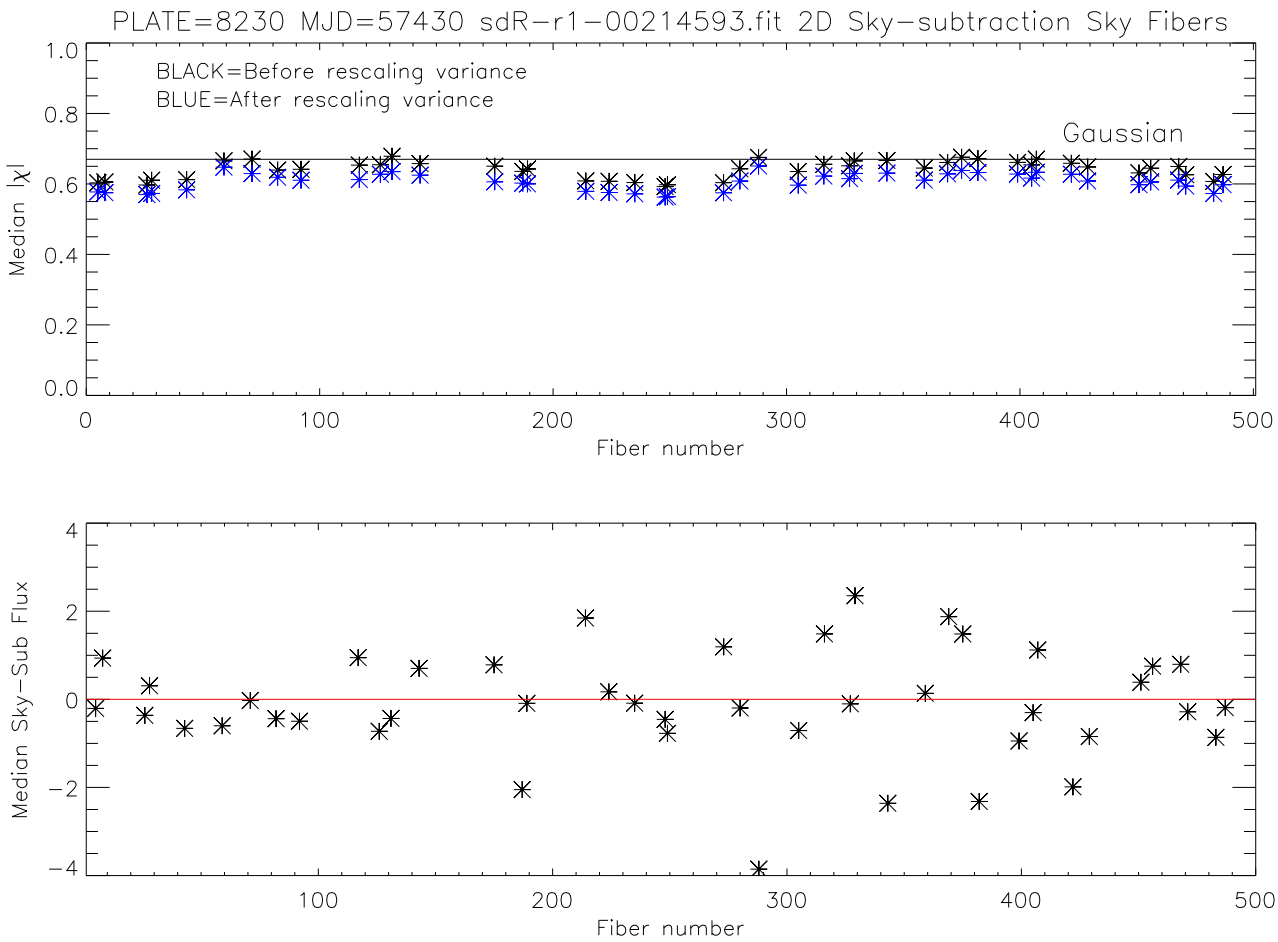

PLATE=8230 MJD=57430 sdR-r1-00214593.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

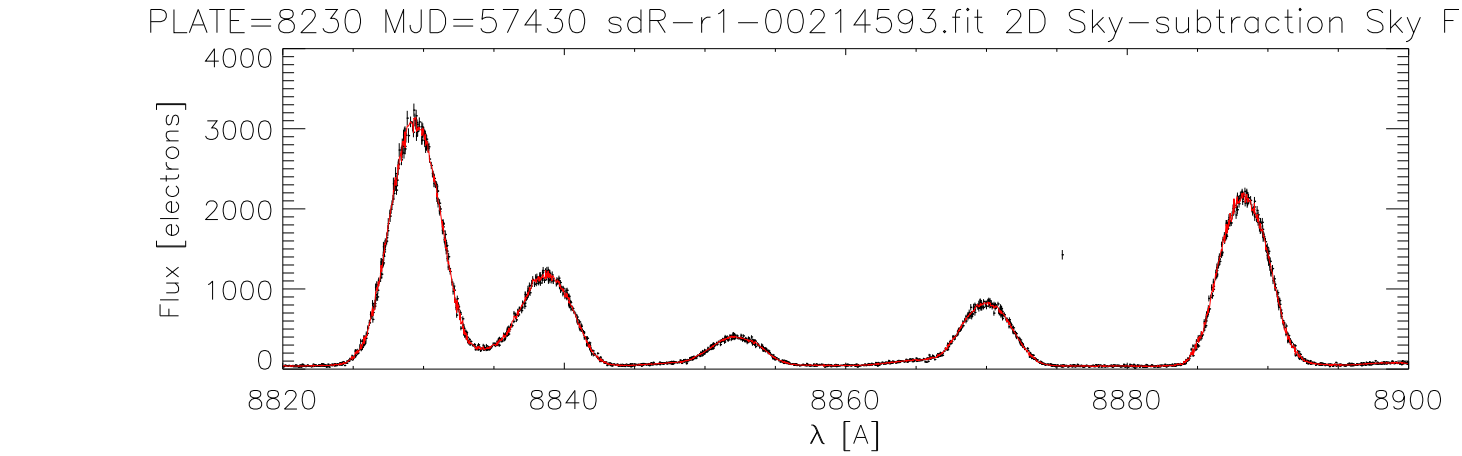

PLATE=8230 MJD=57430 sdR-r1-00214593.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

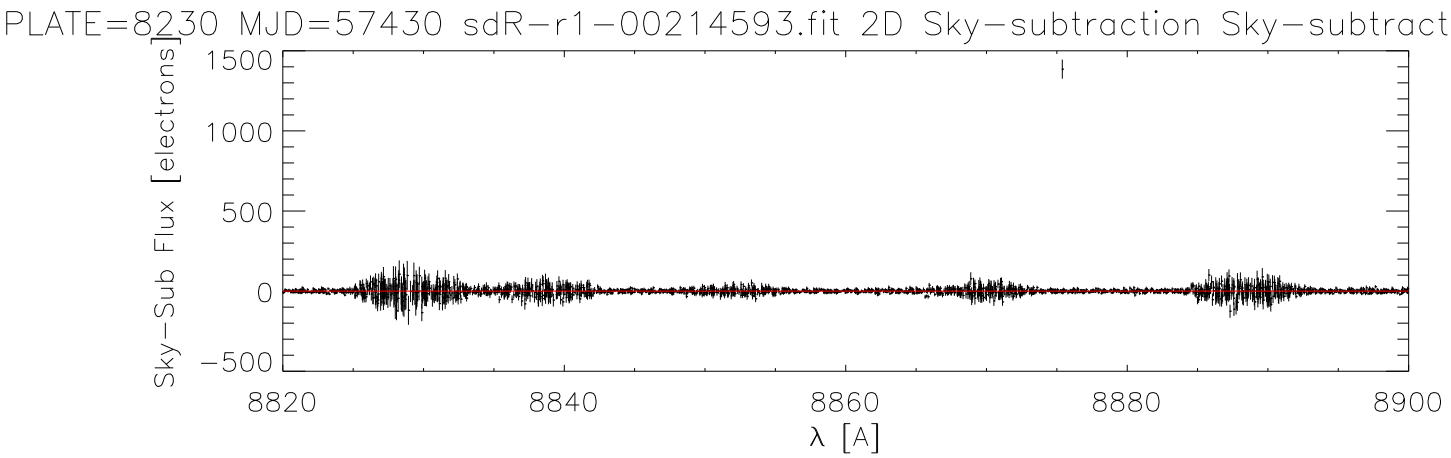

PLATE=8230 MJD=57430 sdR-r1-00214593.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 44

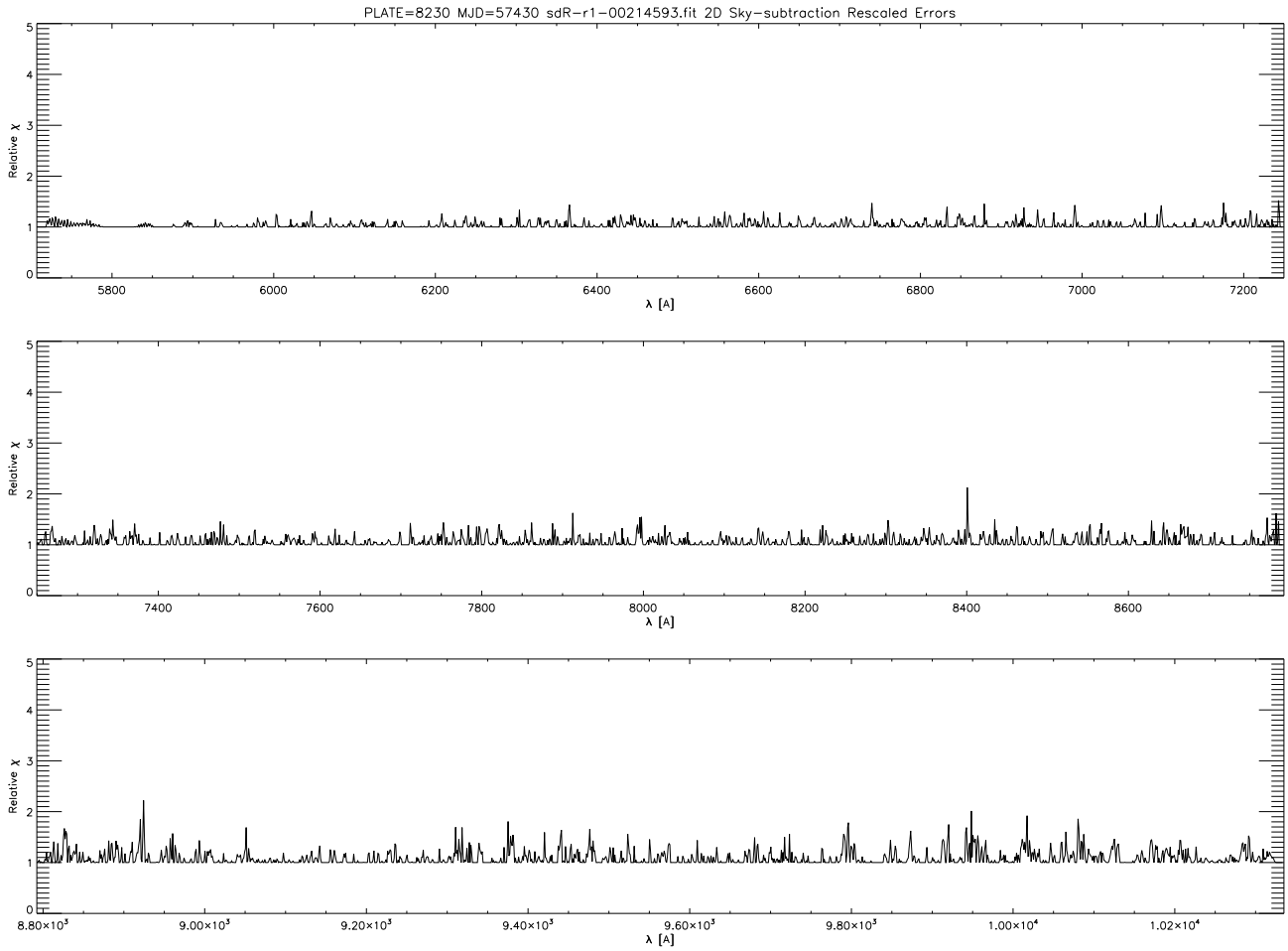


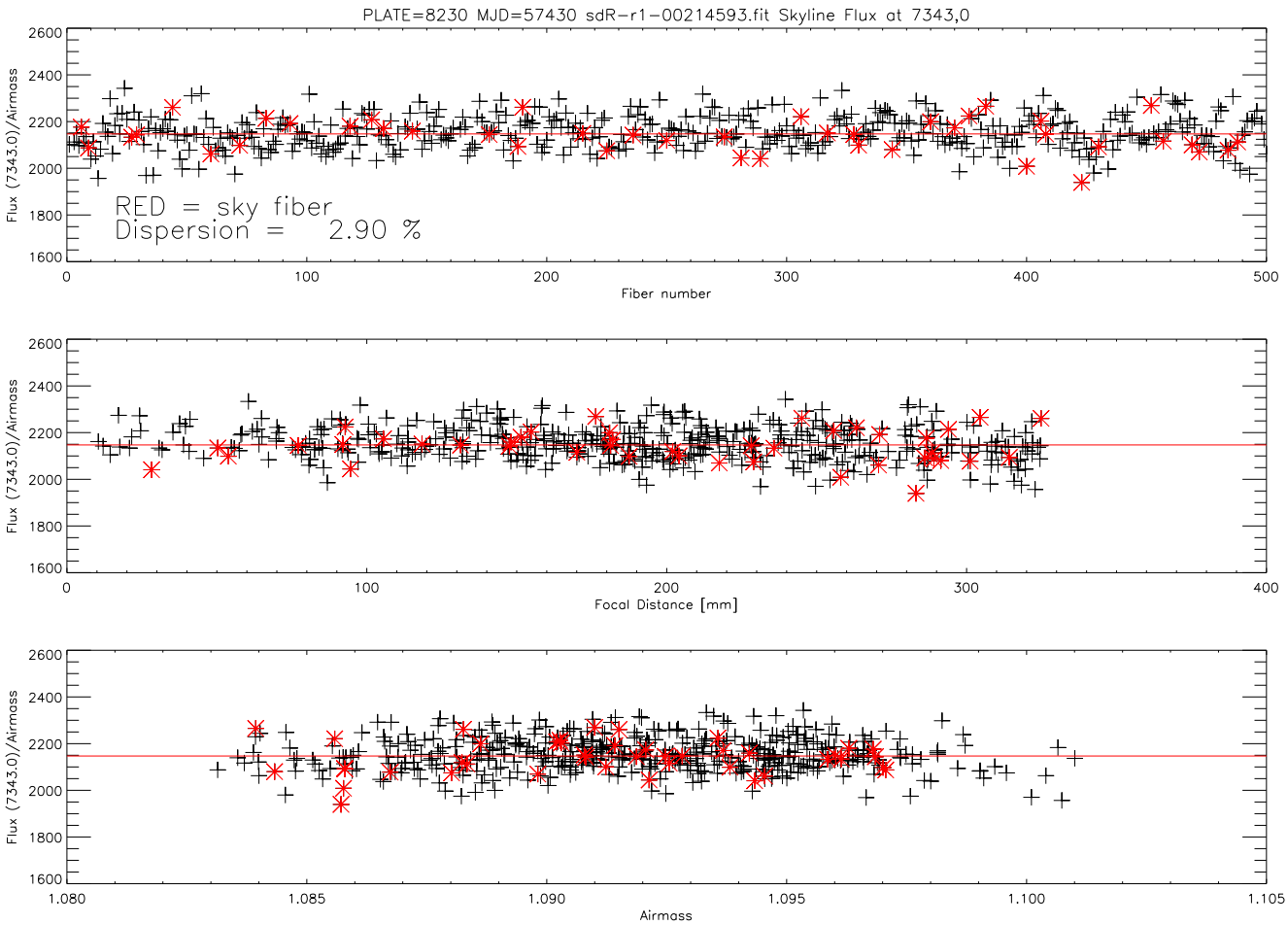

PLATE=8230 MJD=57430 sdR-r1-00214593.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

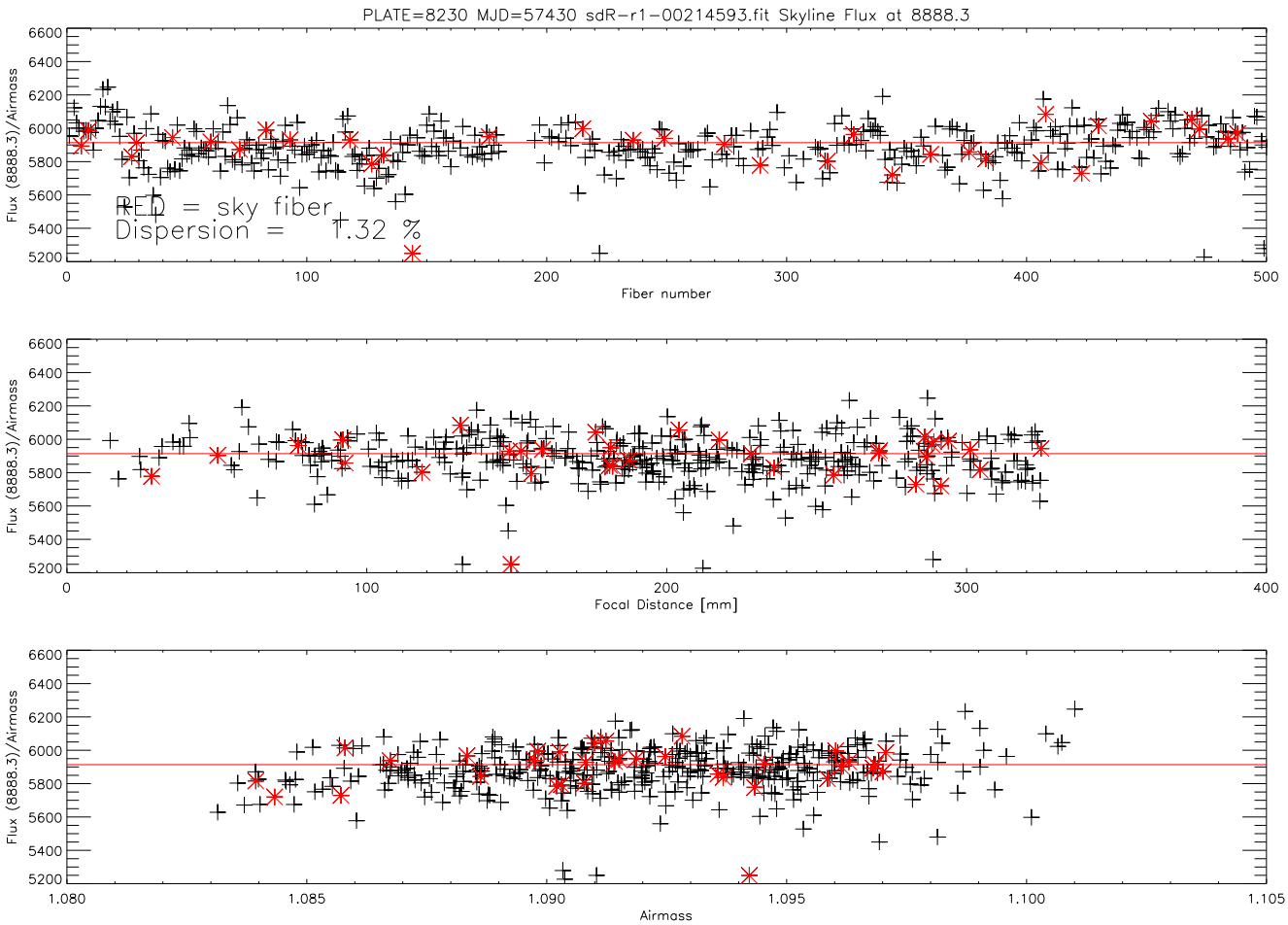

PLATE=8230 MJD=57430 sdR-r1-00214593.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

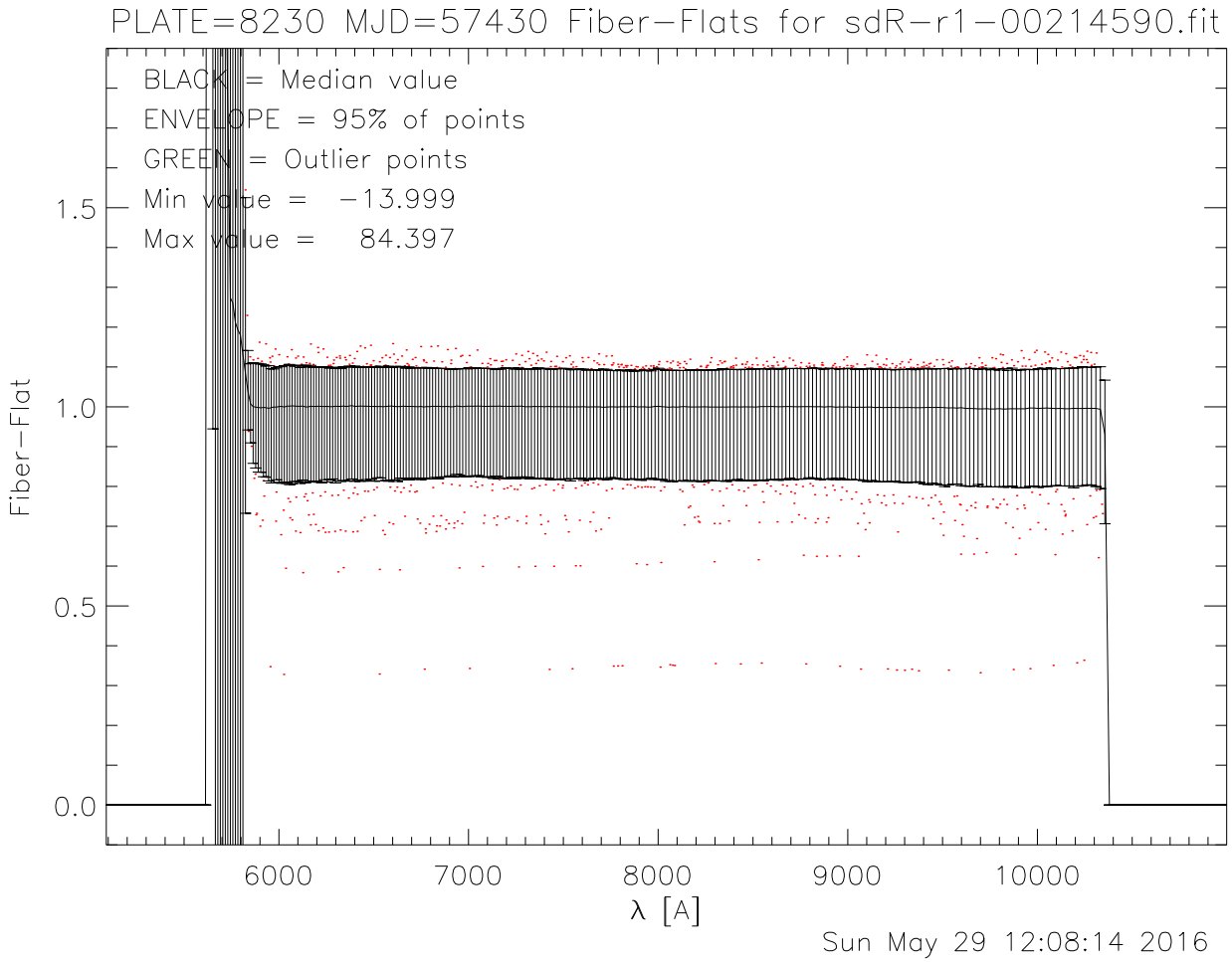

PLATE=8230 MJD=57430 sdR-r1-00214593.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

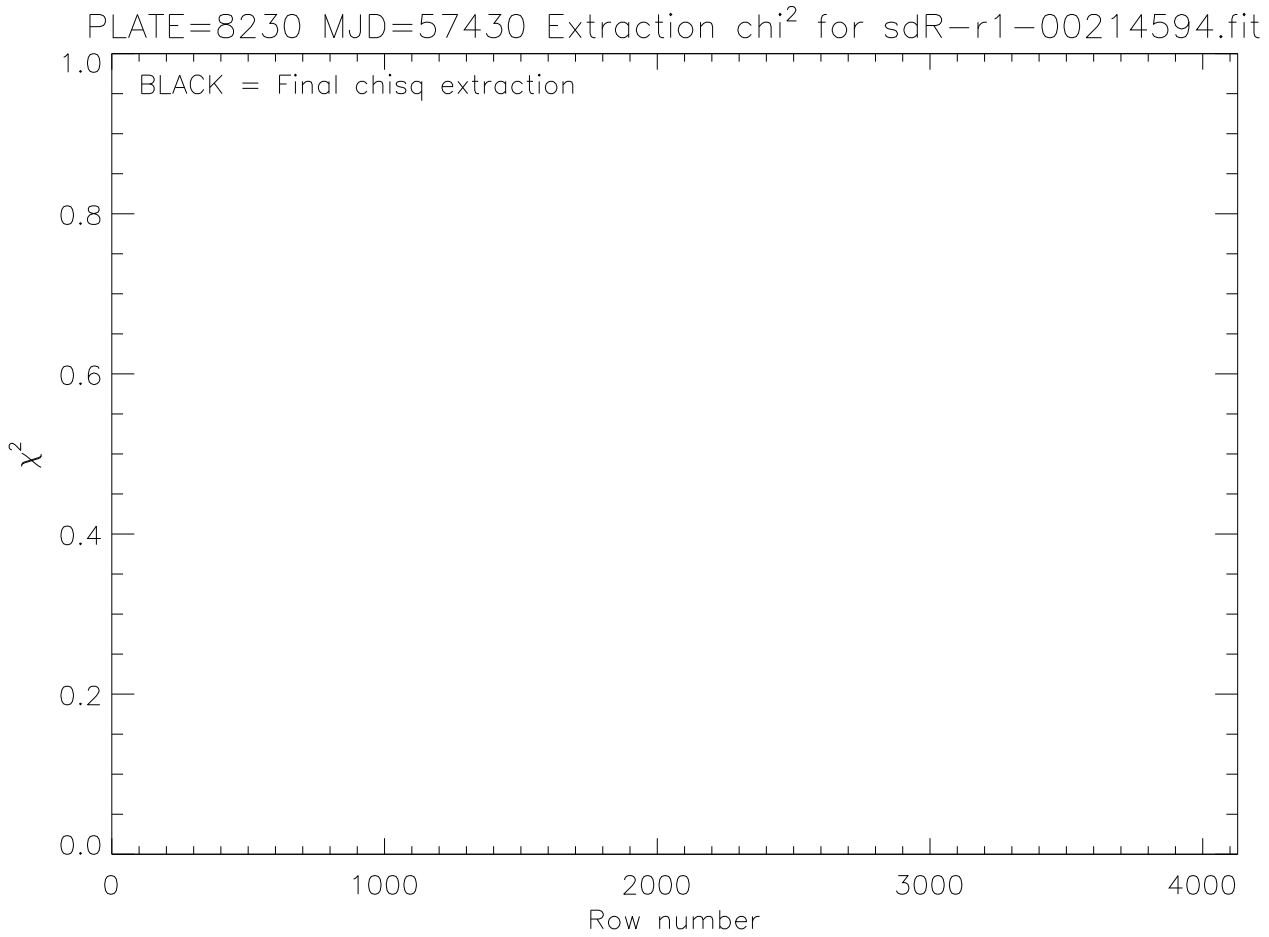
Number of sky fibers = 44

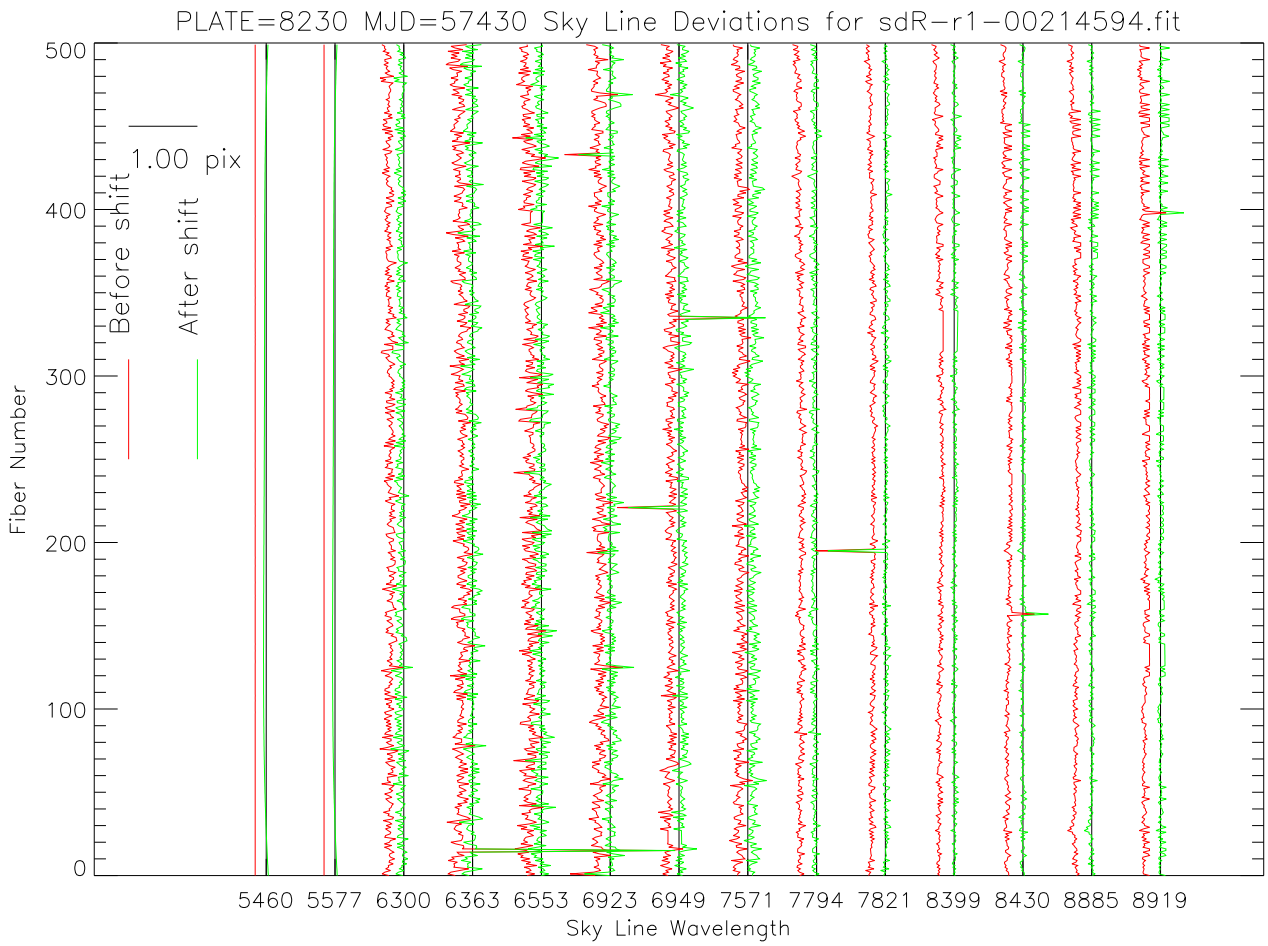


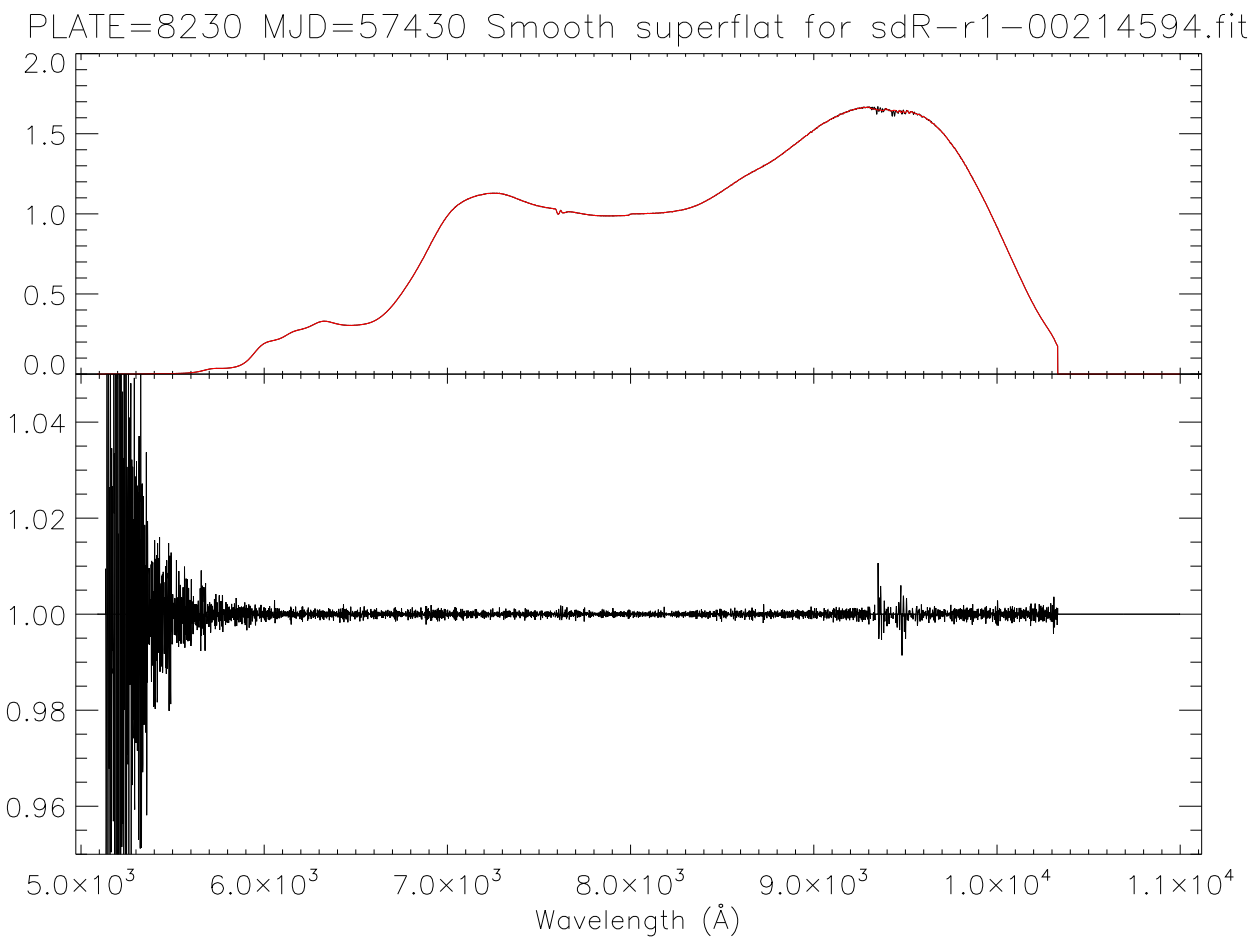

PLATE=8230 MJD=57430 sdR-r1-00214593.fit Skyline Flux at 7343.0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.90 %
Fiber number
Focal Distance [mm]
Airmass

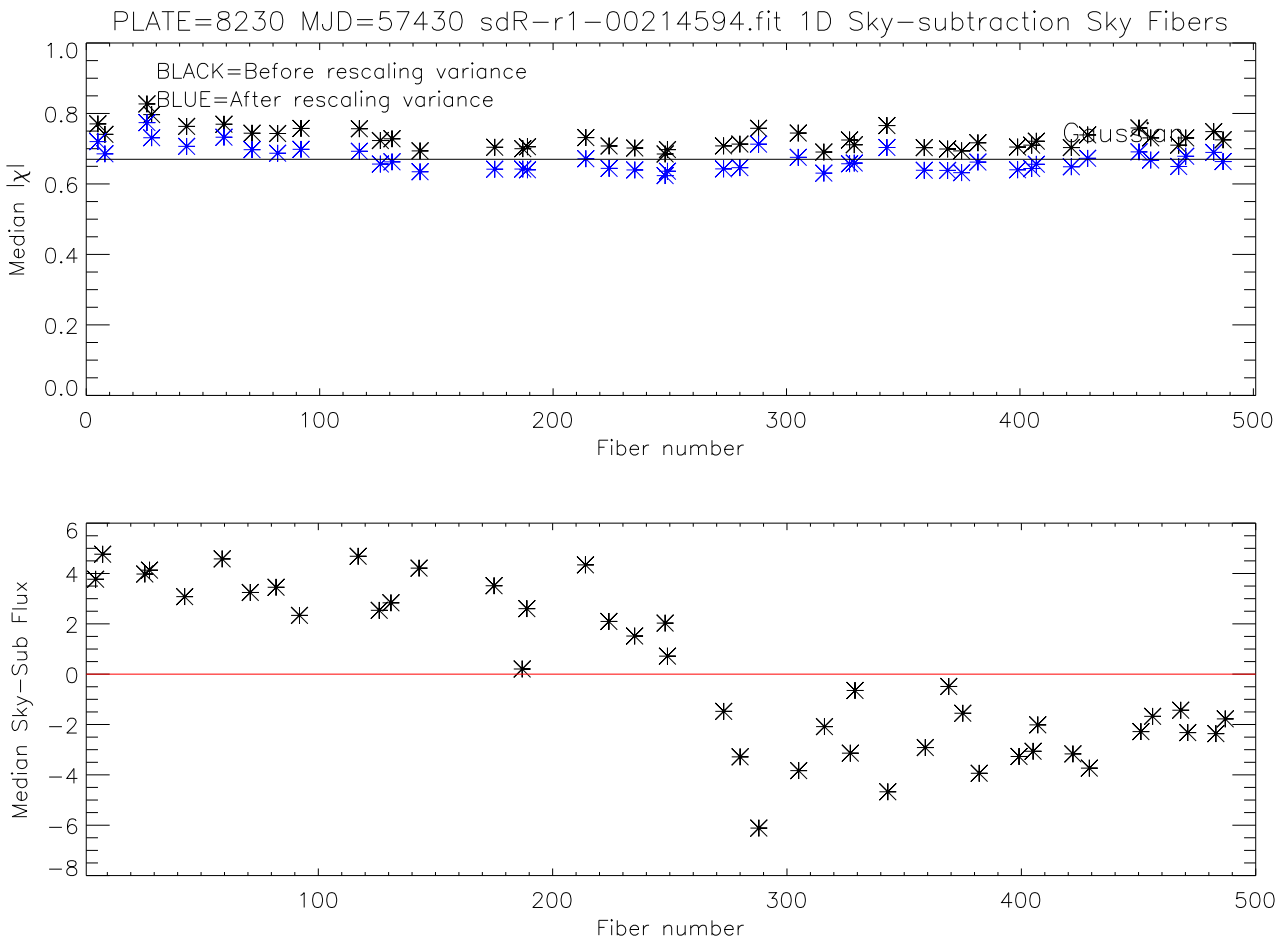

PLATE=8230 MJD=57430 sdR-r1-00214593.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 7.32 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

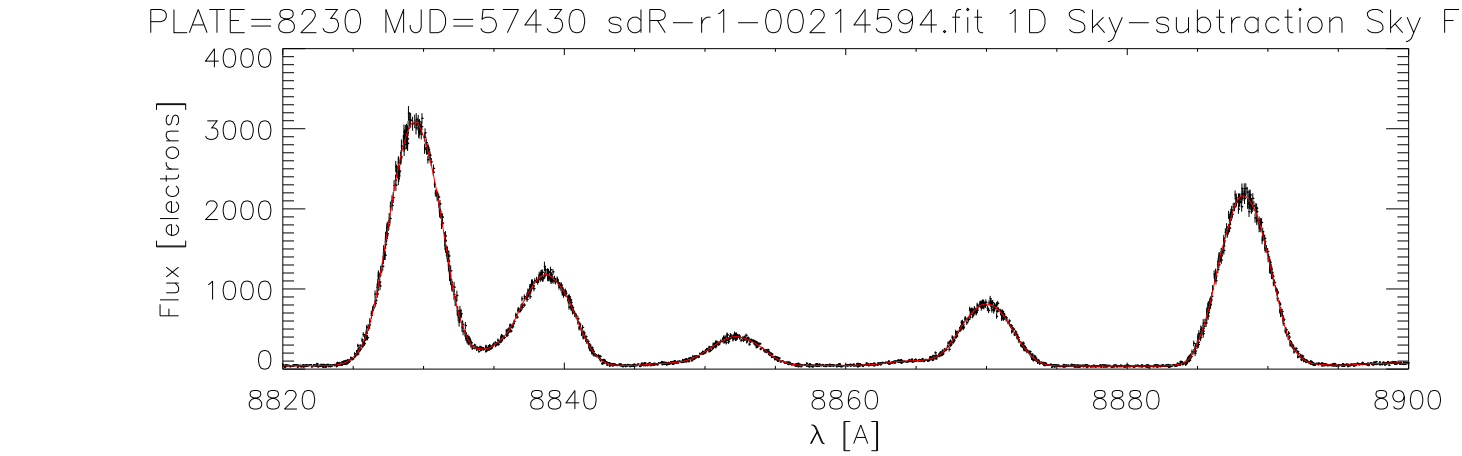

PLATE=8230 MJD=57430 Fiber−Flats for sdR−r1−00214590.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −13.999
Max value = 84.397
Fiber−Flat
1.5
1.0
0.5
0.0
6000
7000
8000
9000
10000
λ [A]
Sun May 29 12:08:14 2016

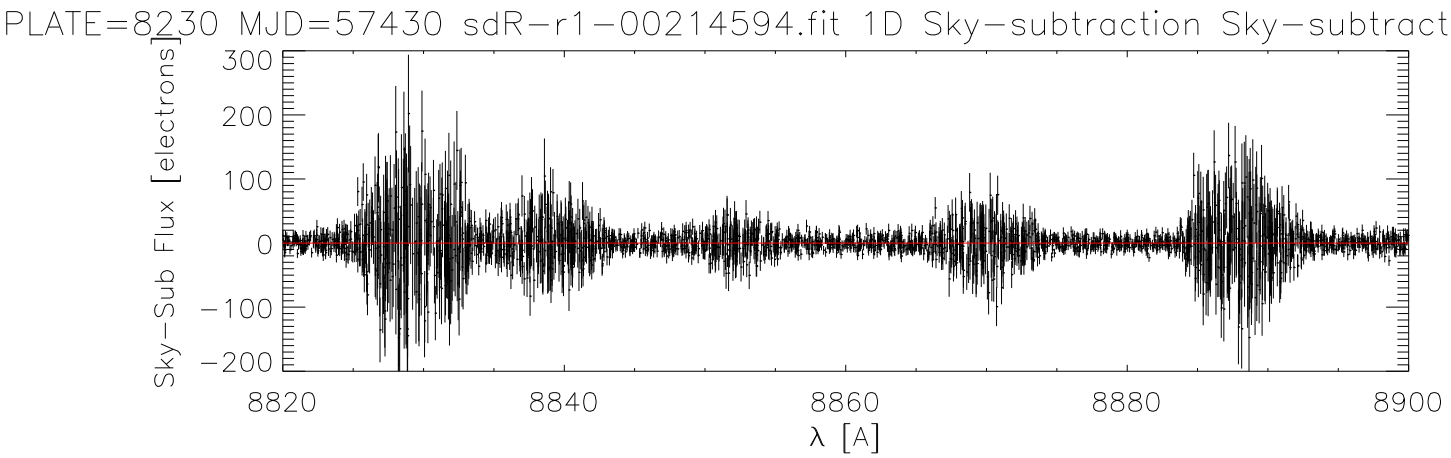

PLATE=8230 MJD=57430 Extraction chi^2 for sdR−r1−00214594.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=8230 MJD=57430 Sky Line Deviations for sdR-r1-00214594.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

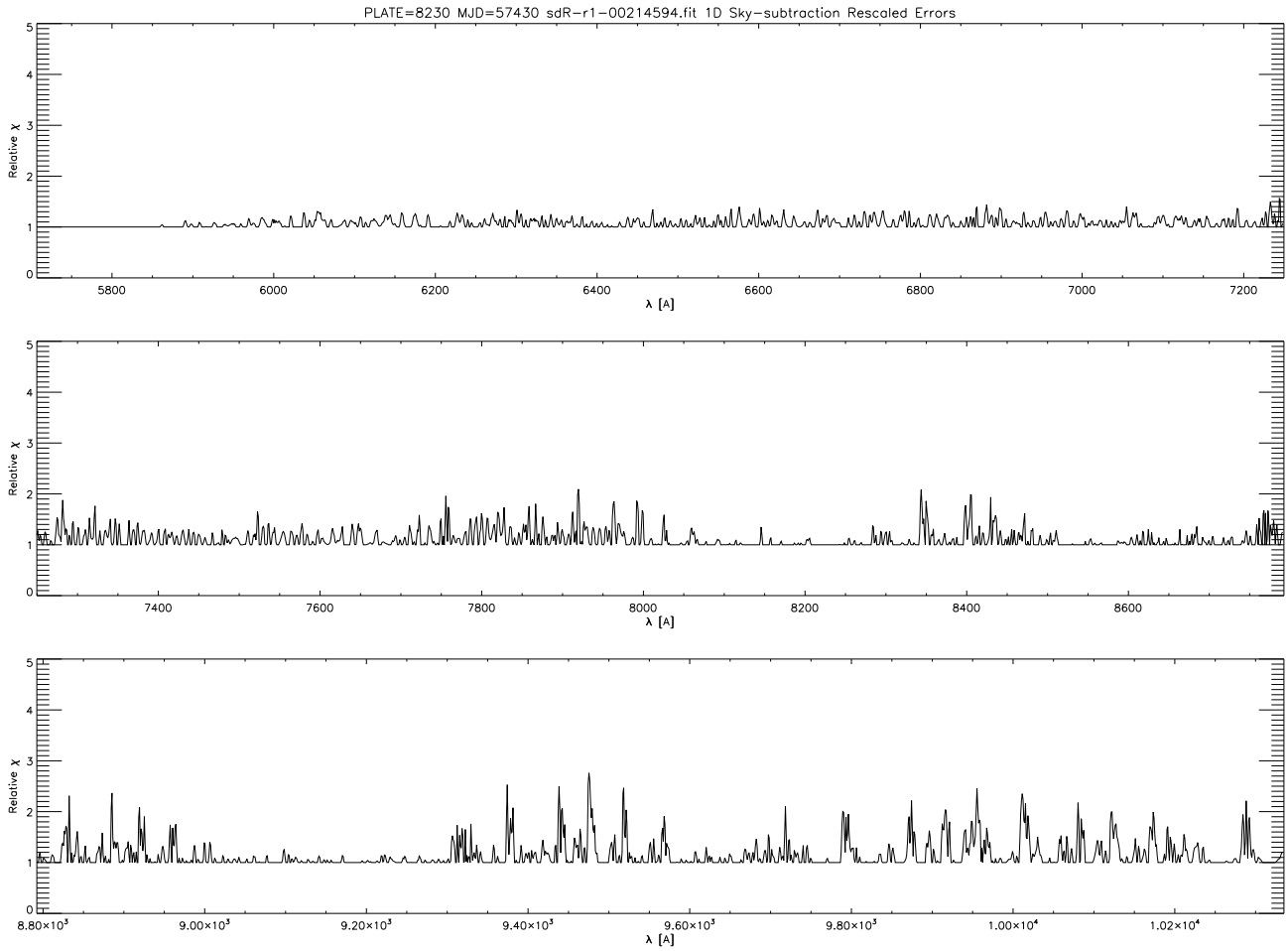

PLATE=8230 MJD=57430 Smooth superflat for sdR-r1-00214594.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

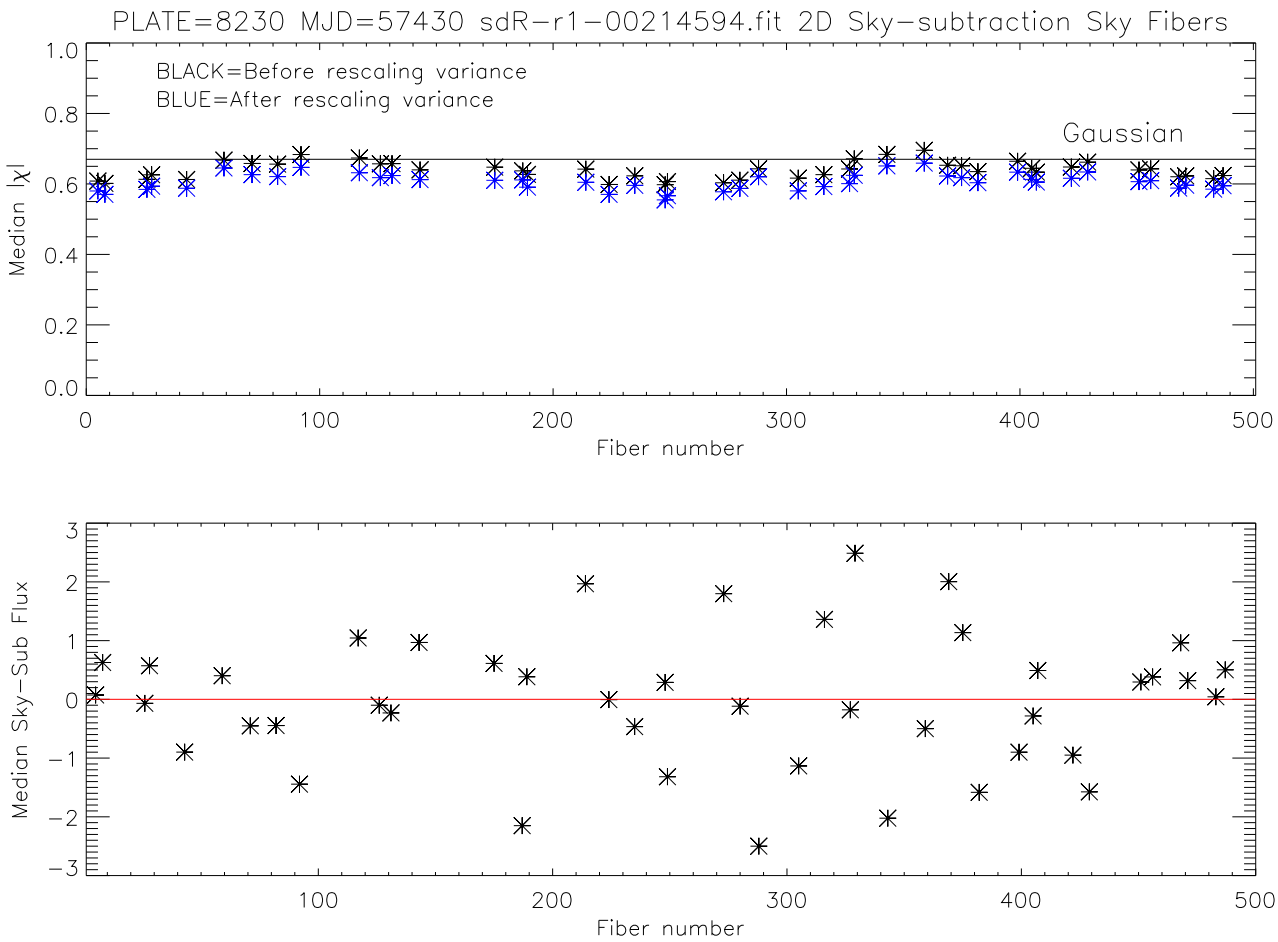

PLATE=8230 MJD=57430 sdR-r1-00214594.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

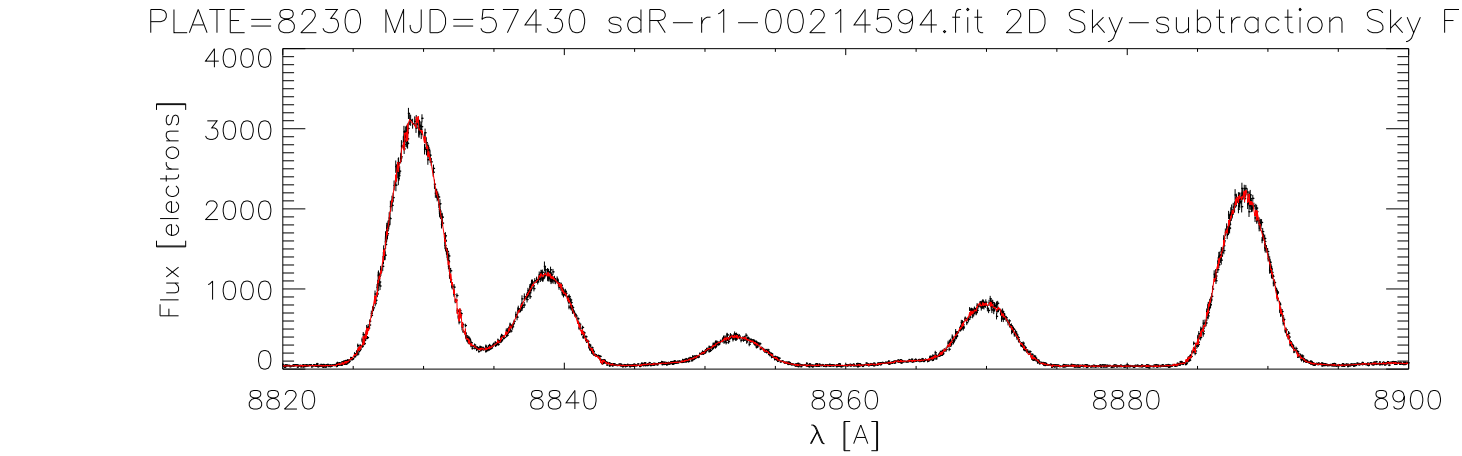

PLATE=8230 MJD=57430 sdR-r1-00214594.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

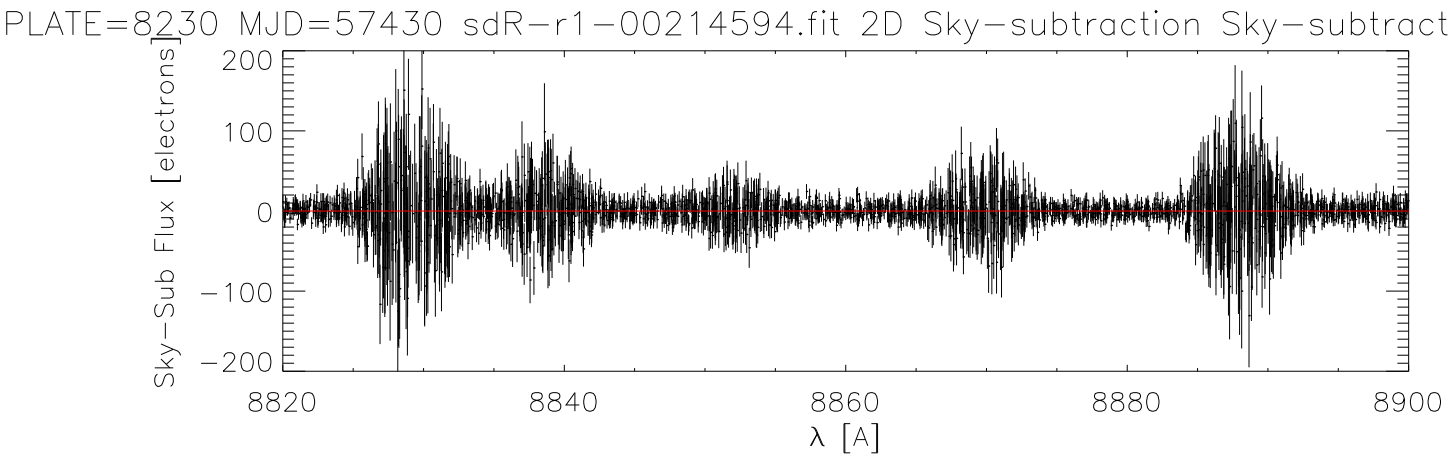

PLATE=8230 MJD=57430 sdR-r1-00214594.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 44

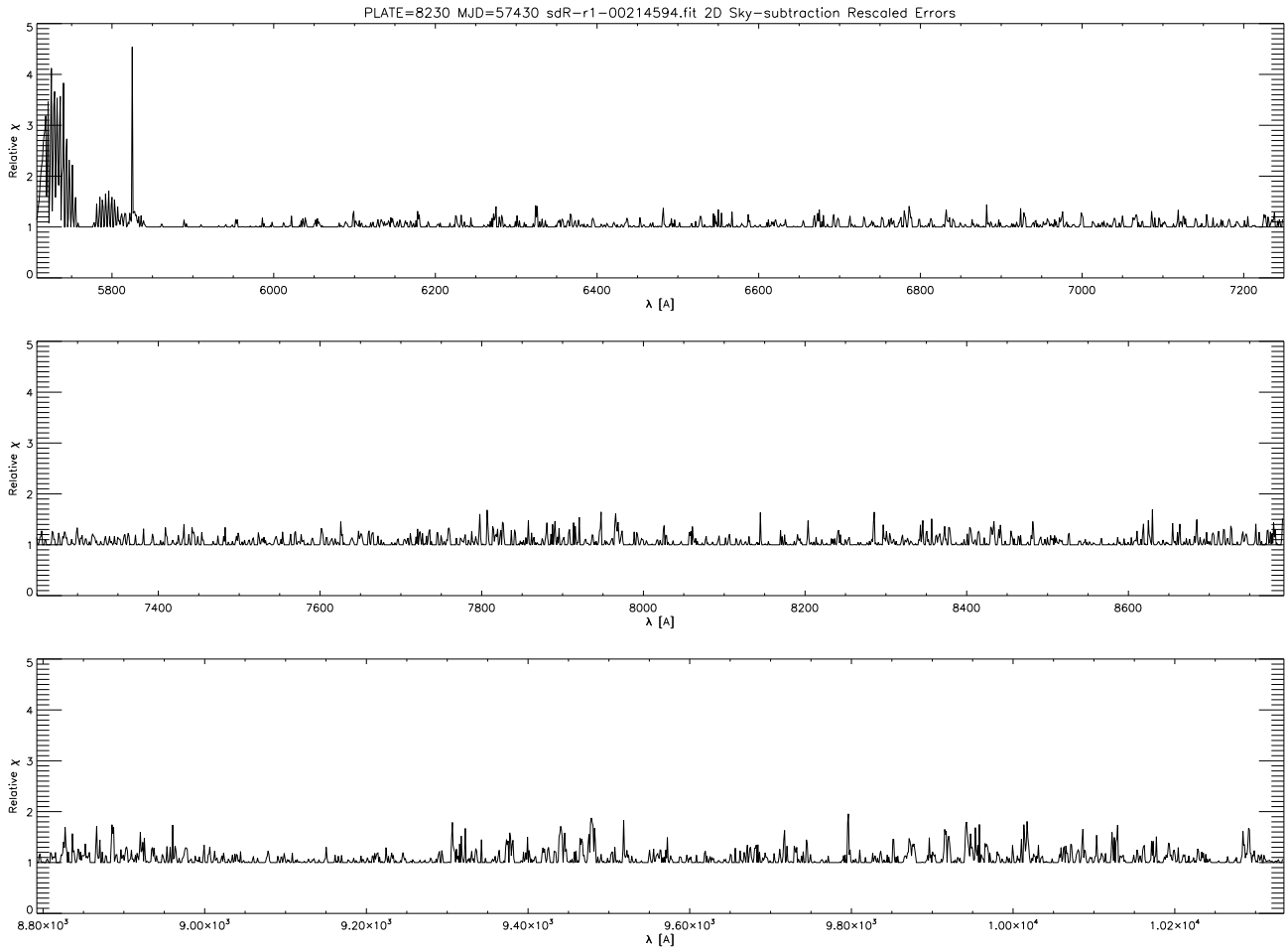


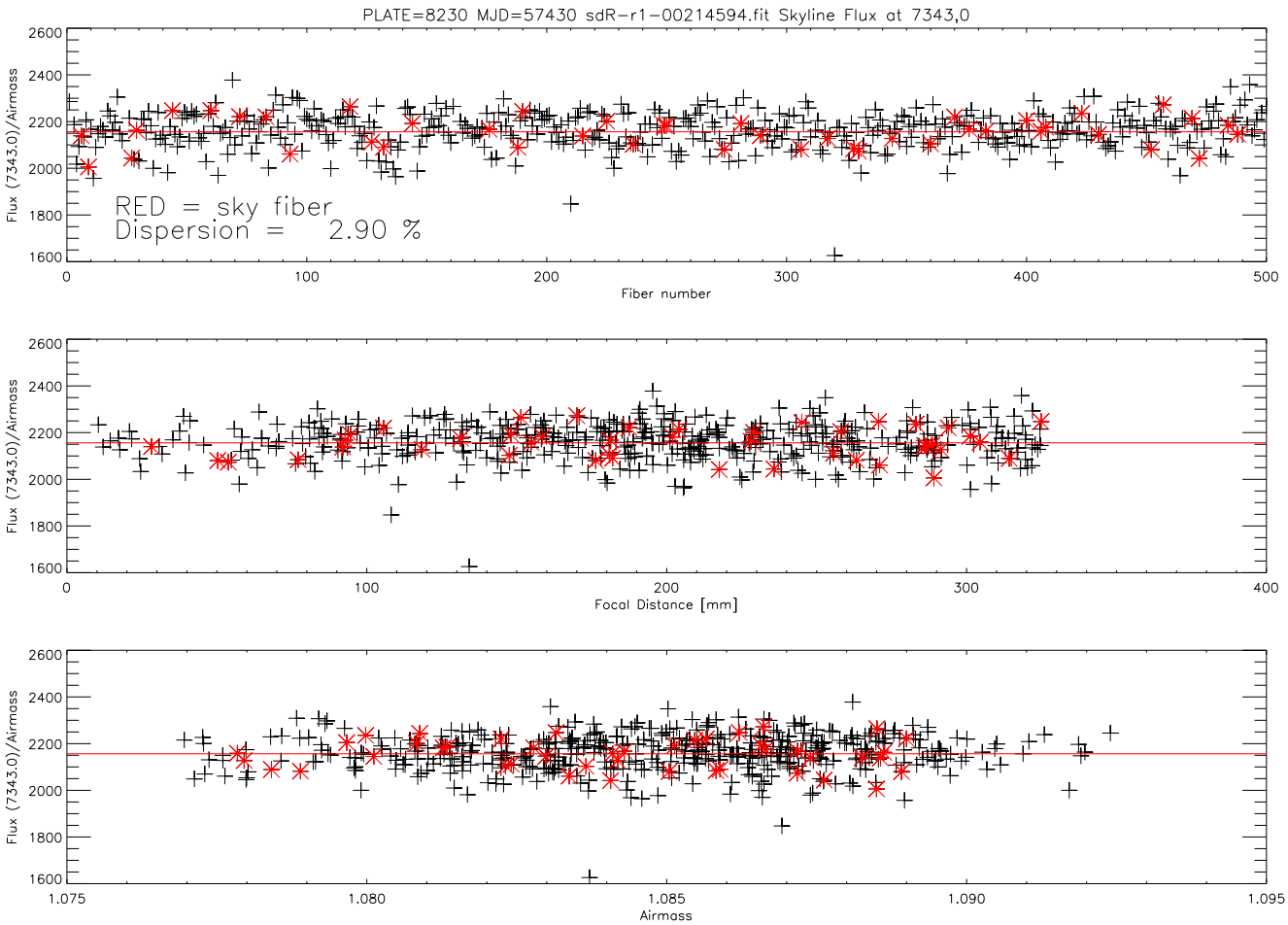

PLATE=8230 MJD=57430 sdR-r1-00214594.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

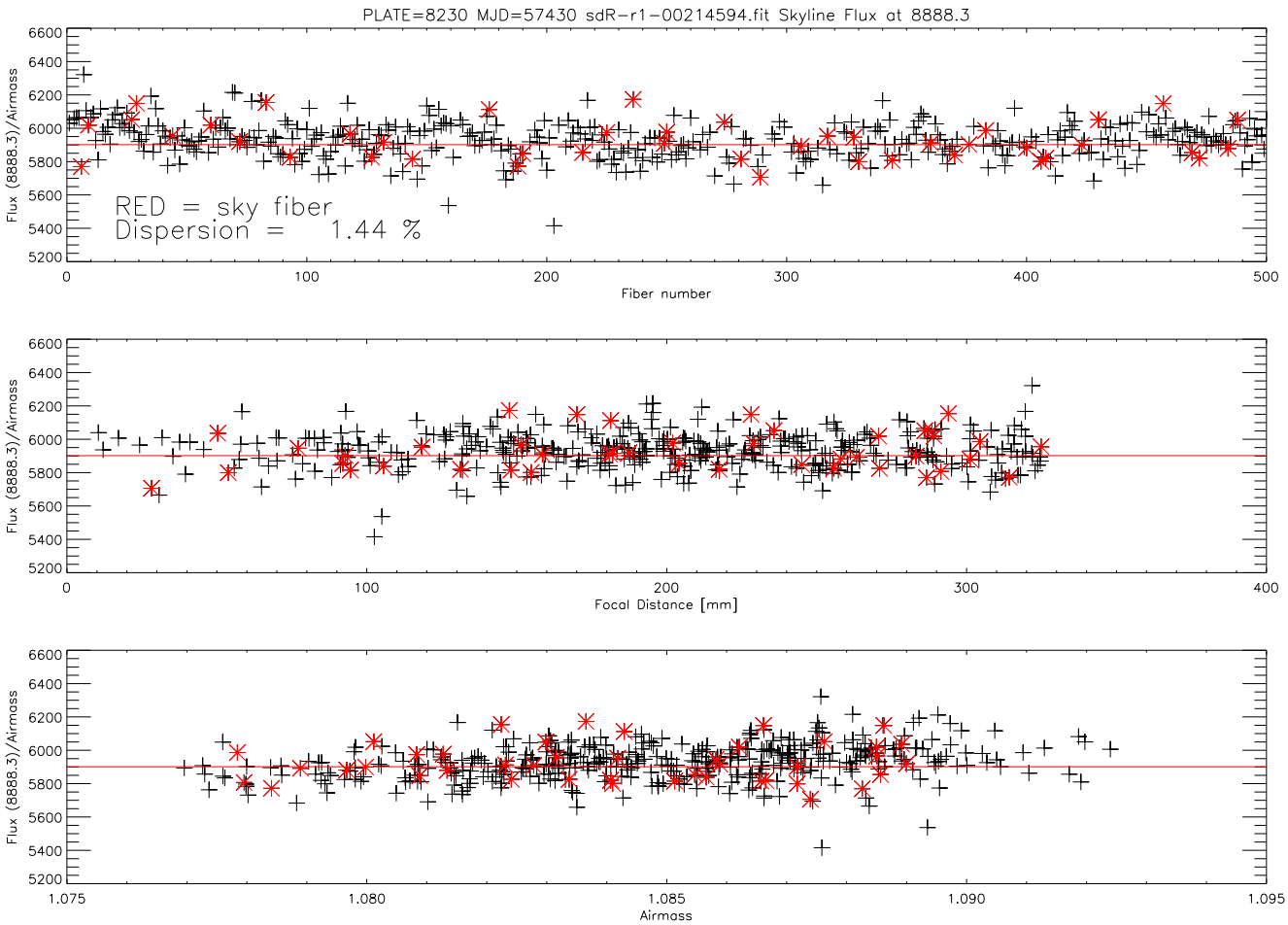

PLATE=8230 MJD=57430 sdR-r1-00214594.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

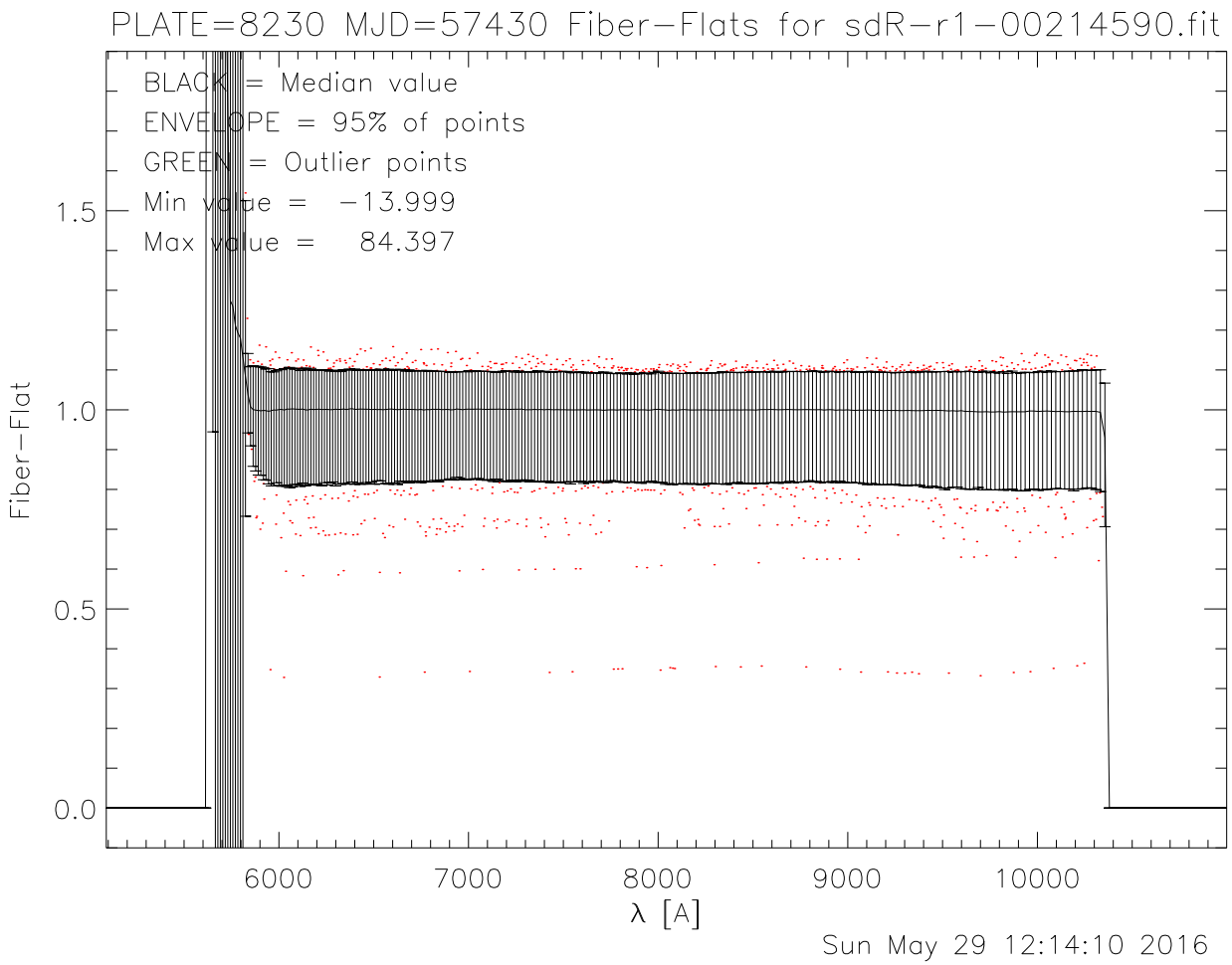

PLATE=8230 MJD=57430 sdR-r1-00214594.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

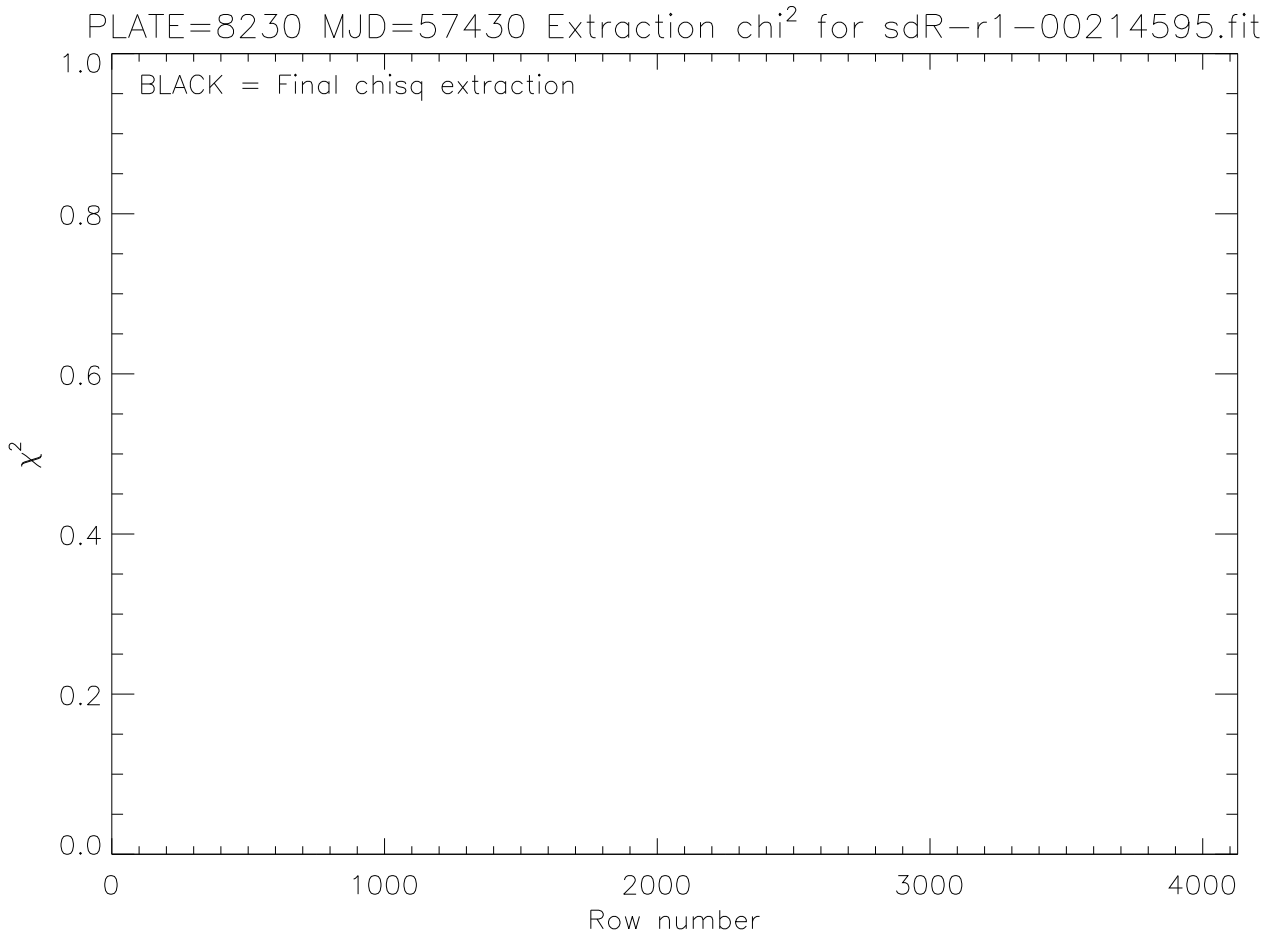
Number of sky fibers = 44

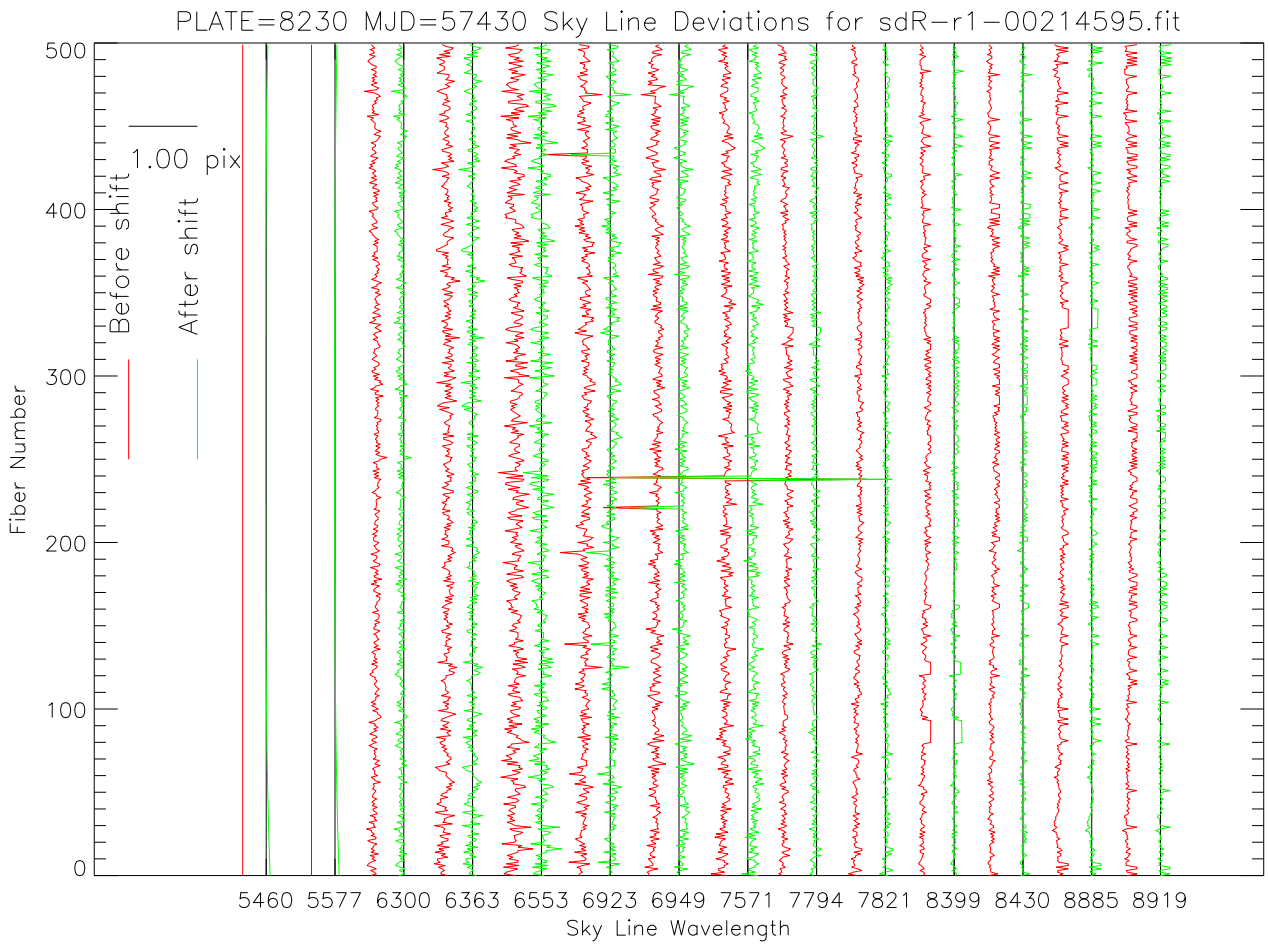


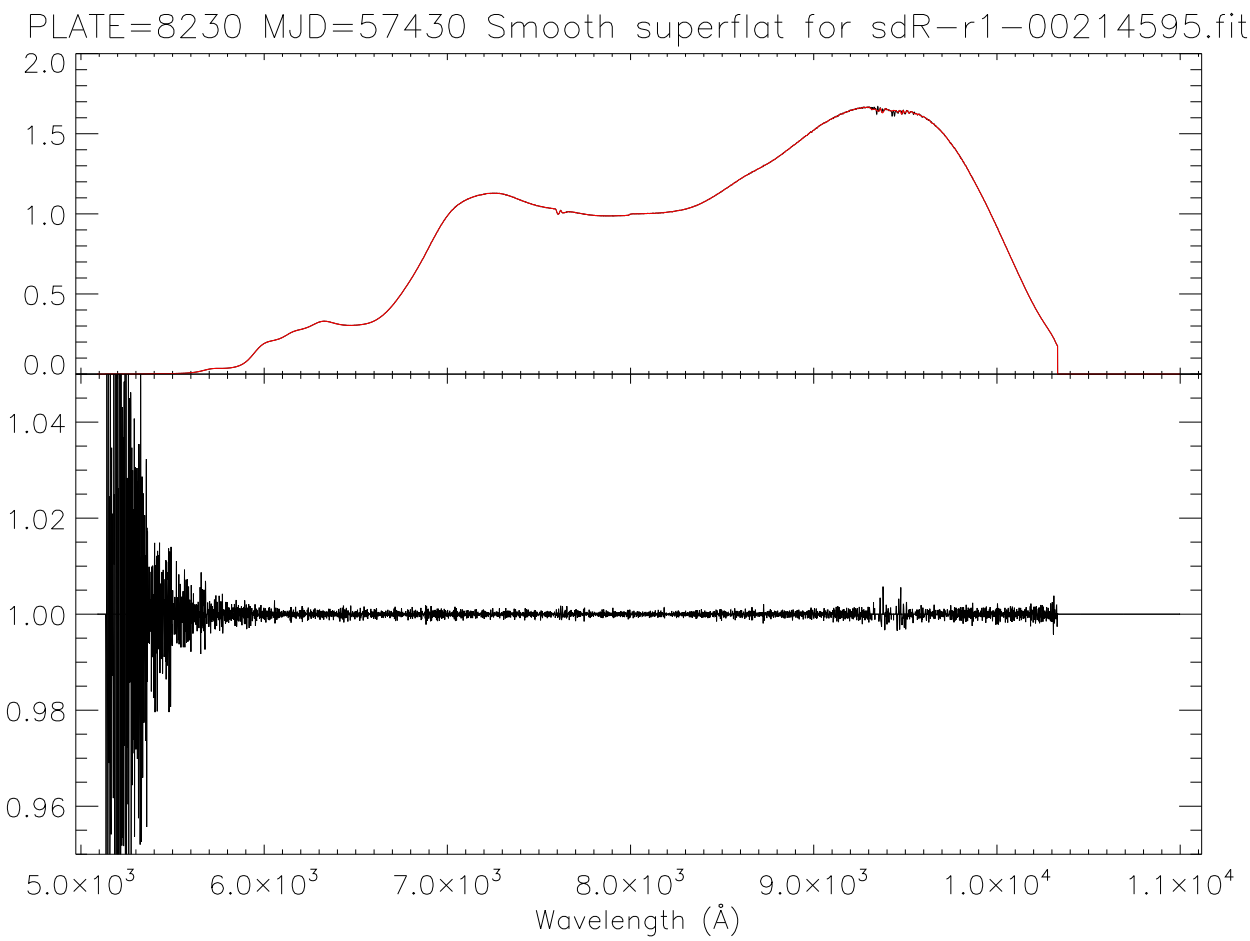

PLATE=8230 MJD=57430 sdR-r1-00214594.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.90 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

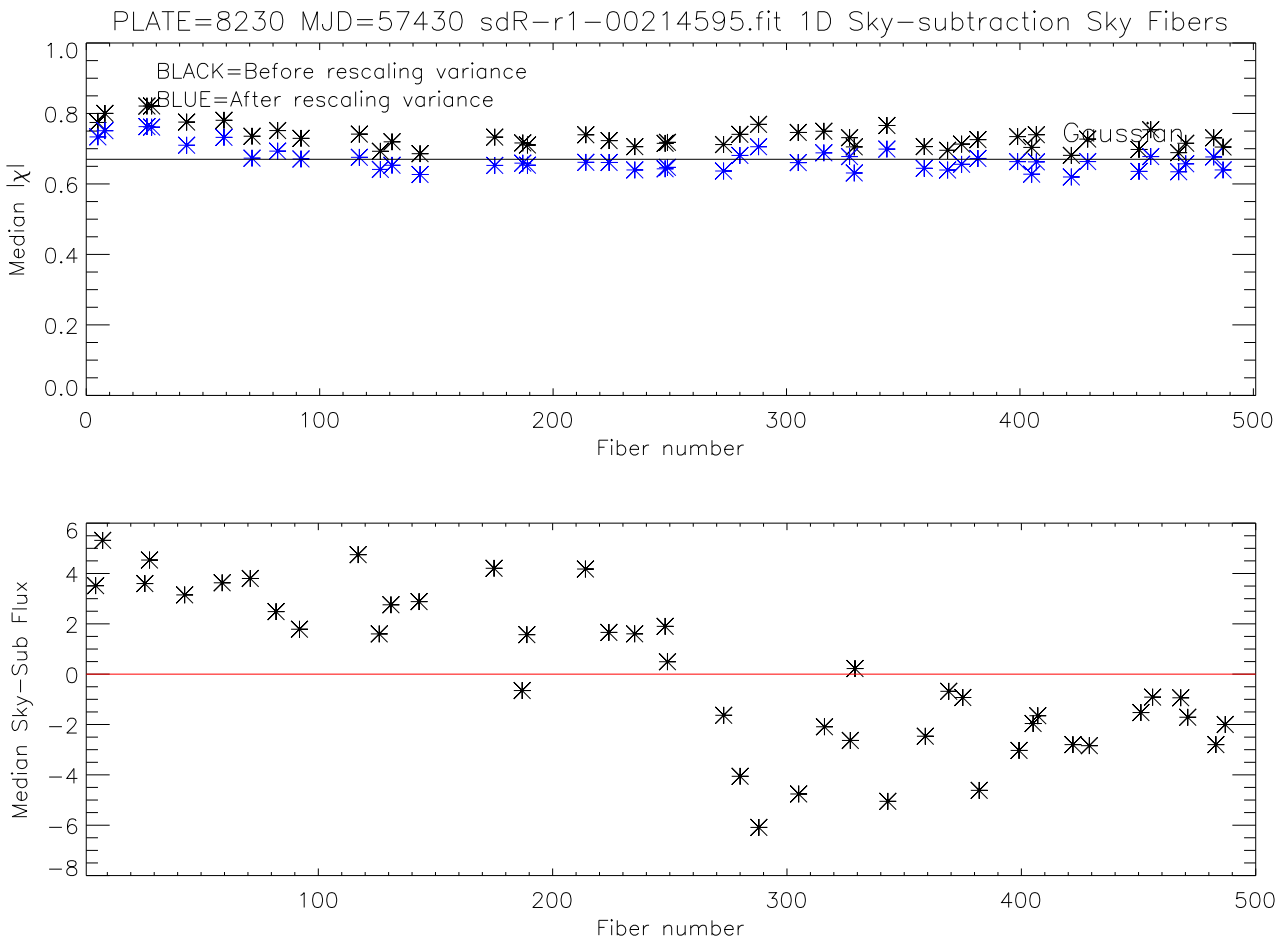

PLATE=8230 MJD=57430 sdR-r1-00214594.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.44 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

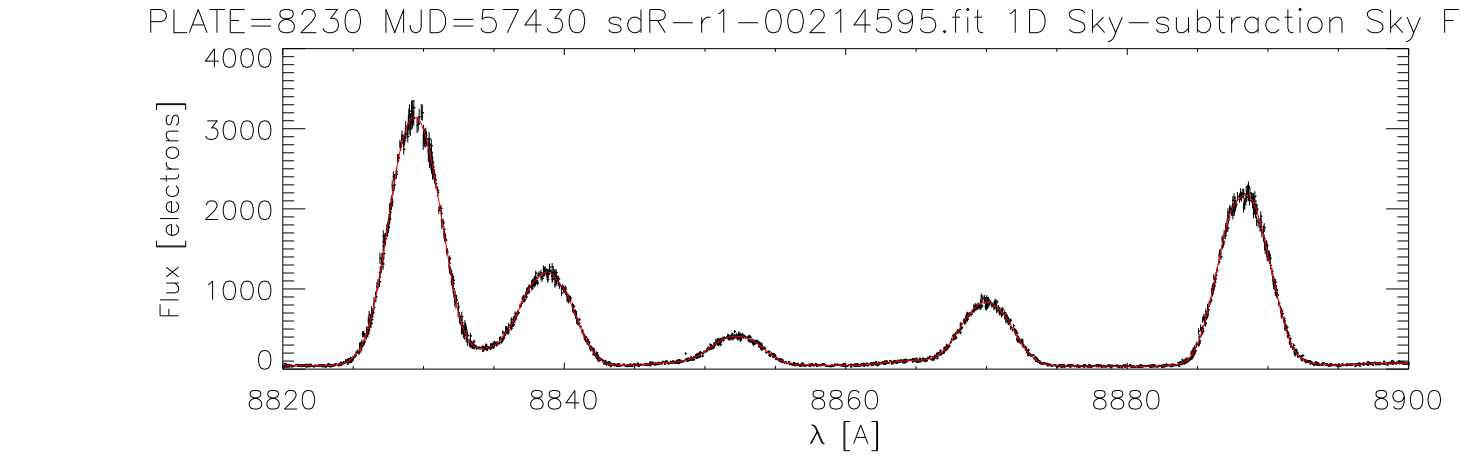

PLATE=8230 MJD=57430 Fiber−Flats for sdR−r1−00214590.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −13.999
Max value = 84.397
Fiber−Flat
1.5
1.0
0.5
0.0
6000
7000
8000
9000
10000
λ [A]
Sun May 29 12:14:10 2016

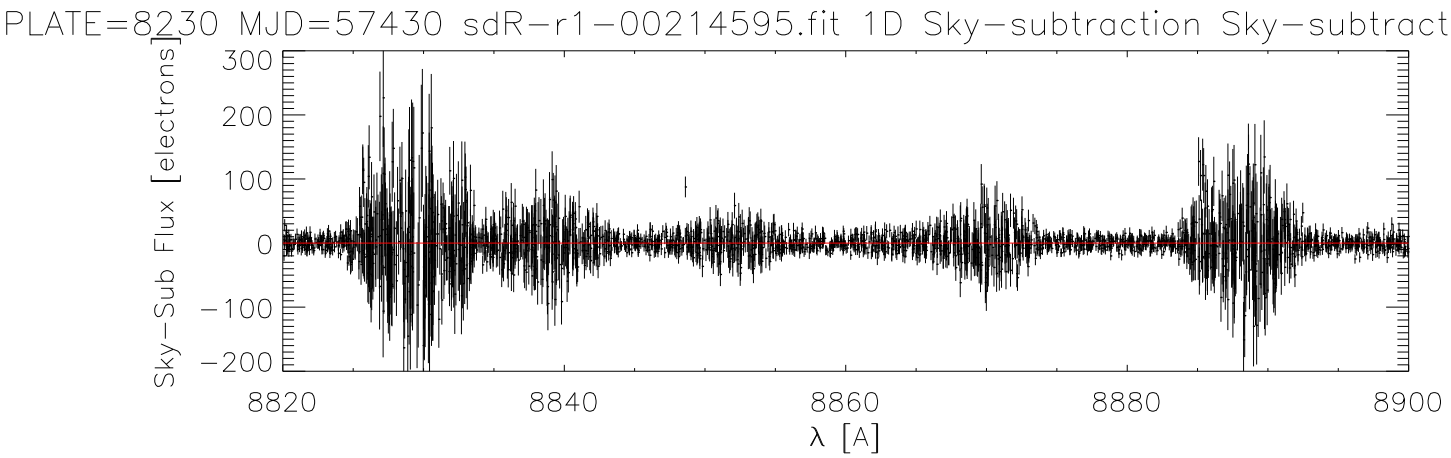

PLATE=8230 MJD=57430 Extraction chi^2 for sdR−r1−00214595.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=8230 MJD=57430 Sky Line Deviations for sdR-r1-00214595.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

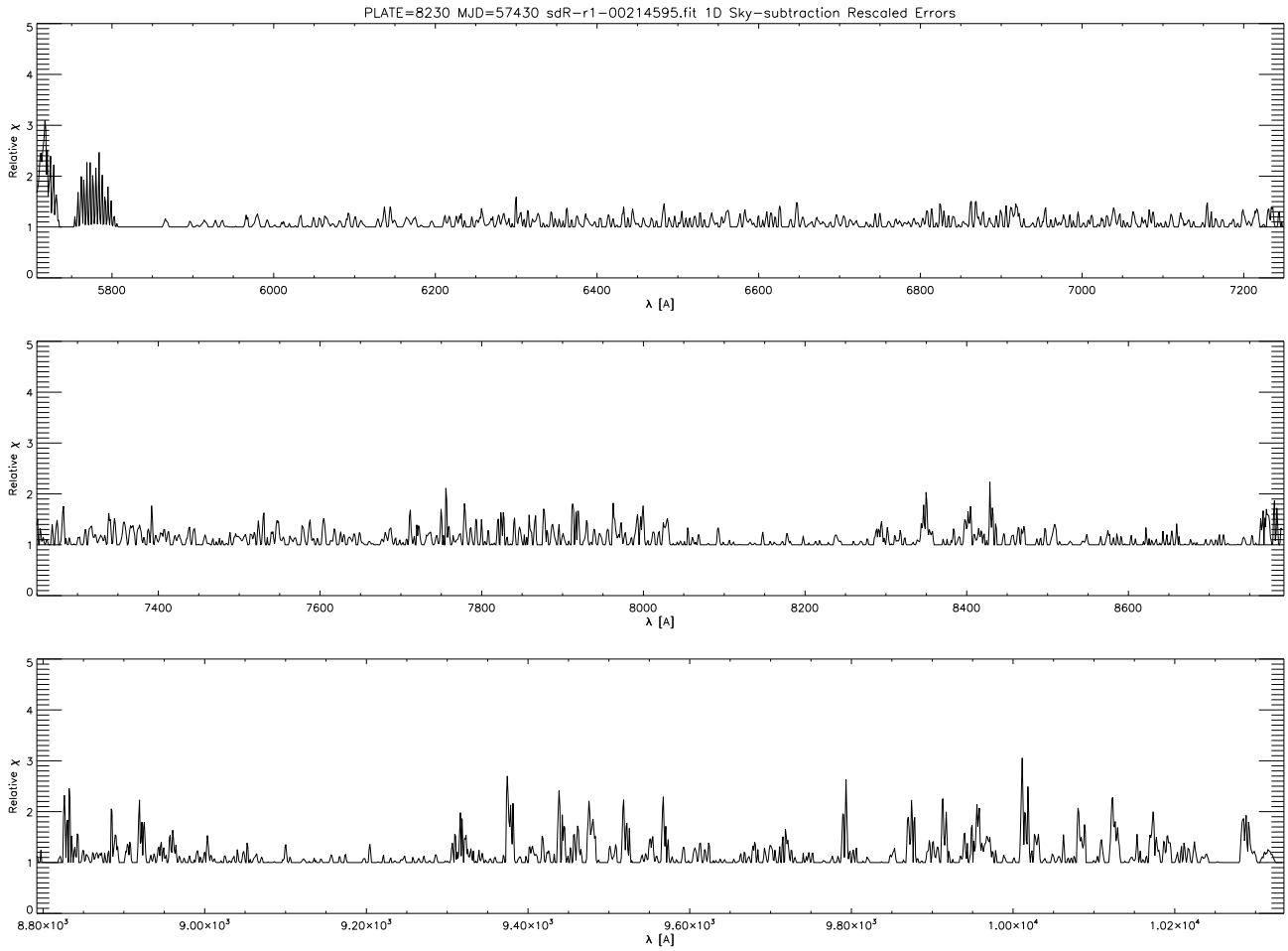

PLATE=8230 MJD=57430 Smooth superflat for sdR-r1-00214595.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

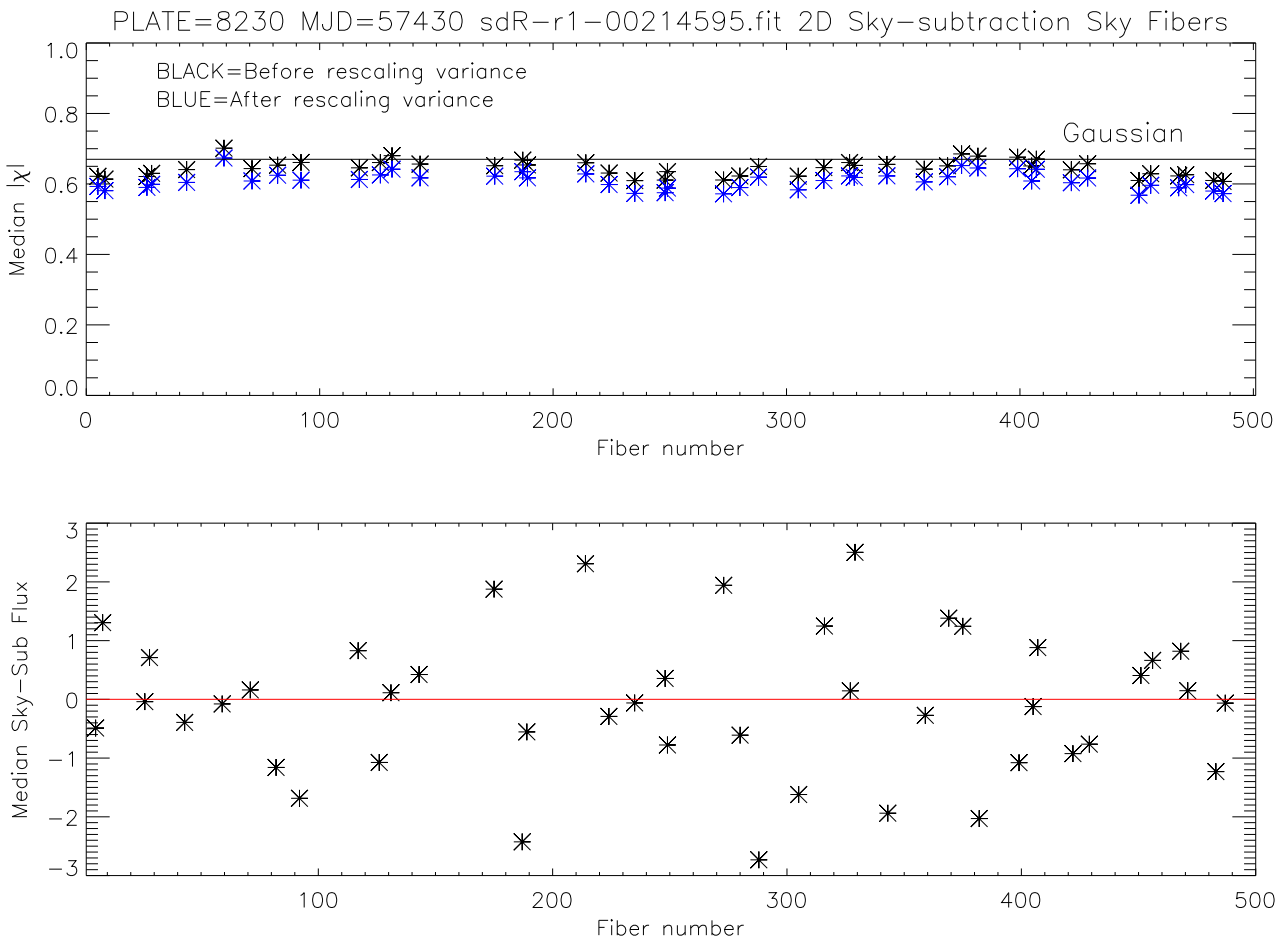

PLATE=8230 MJD=57430 sdR-r1-00214595.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

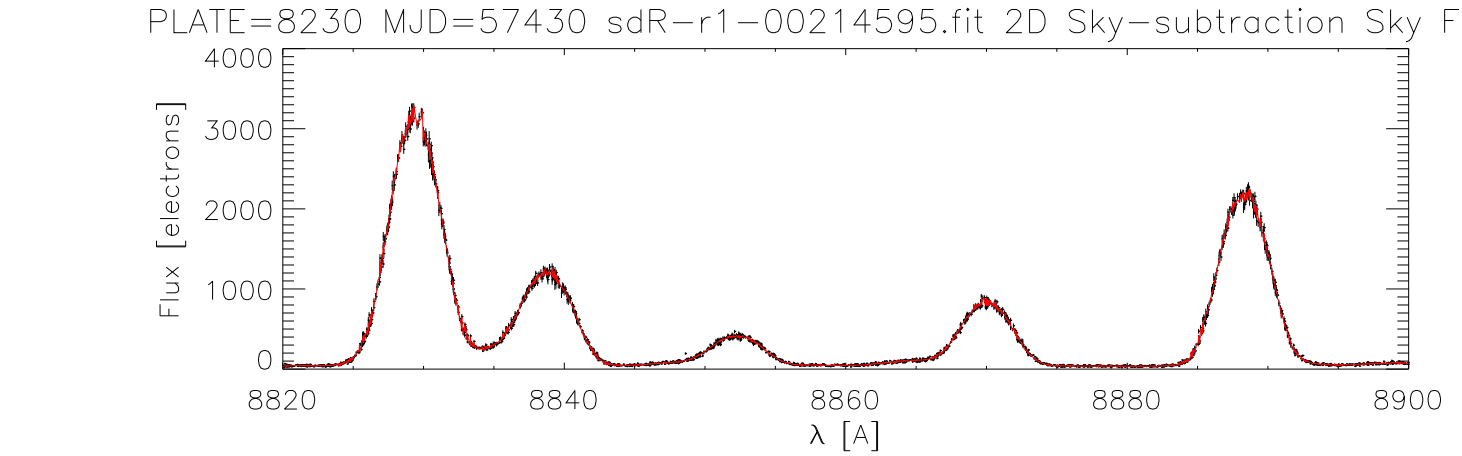

PLATE=8230 MJD=57430 sdR-r1-00214595.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

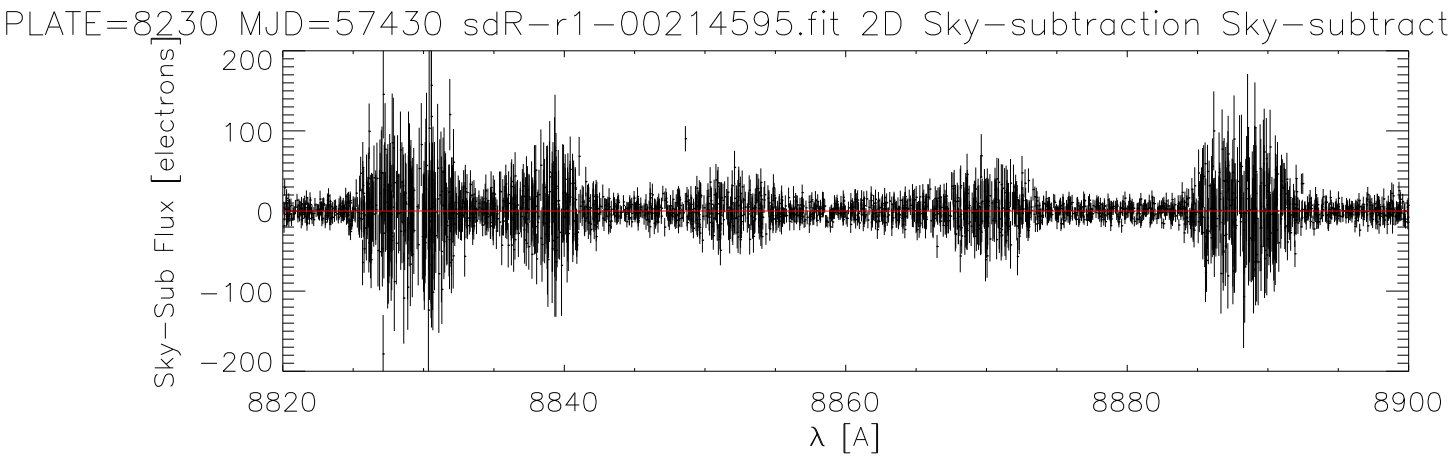

PLATE=8230 MJD=57430 sdR-r1-00214595.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 44

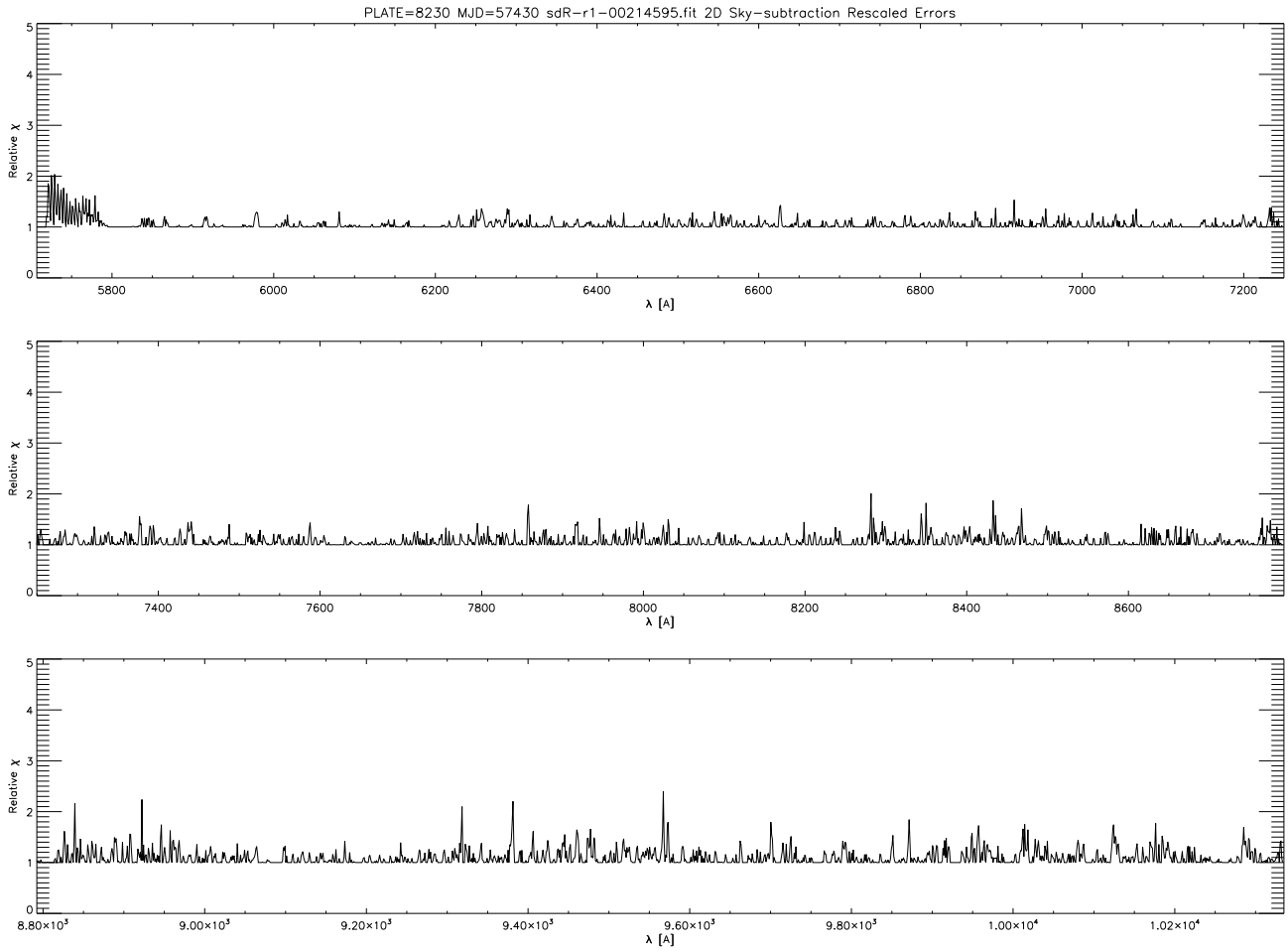


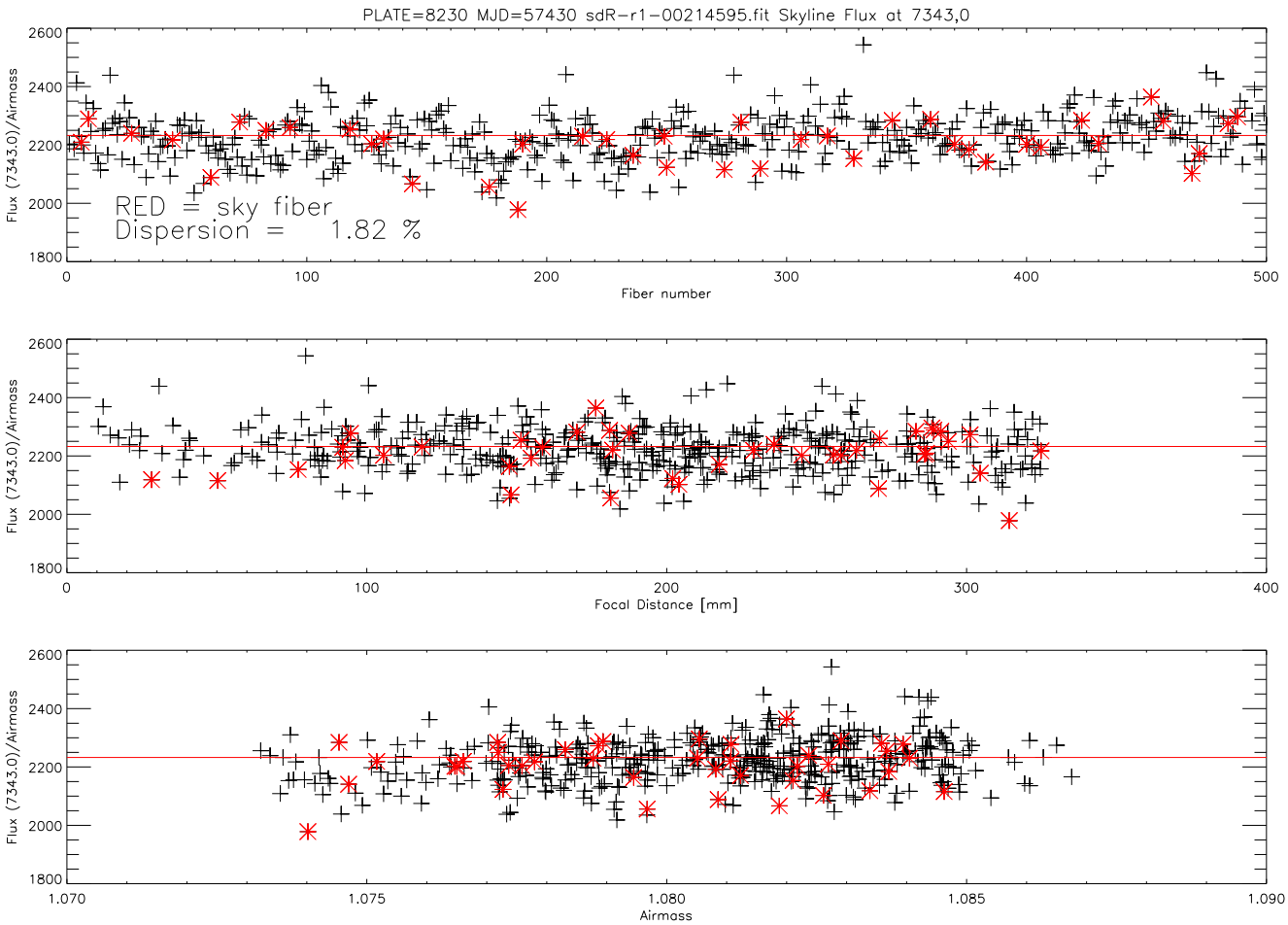

PLATE=8230 MJD=57430 sdR-r1-00214595.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

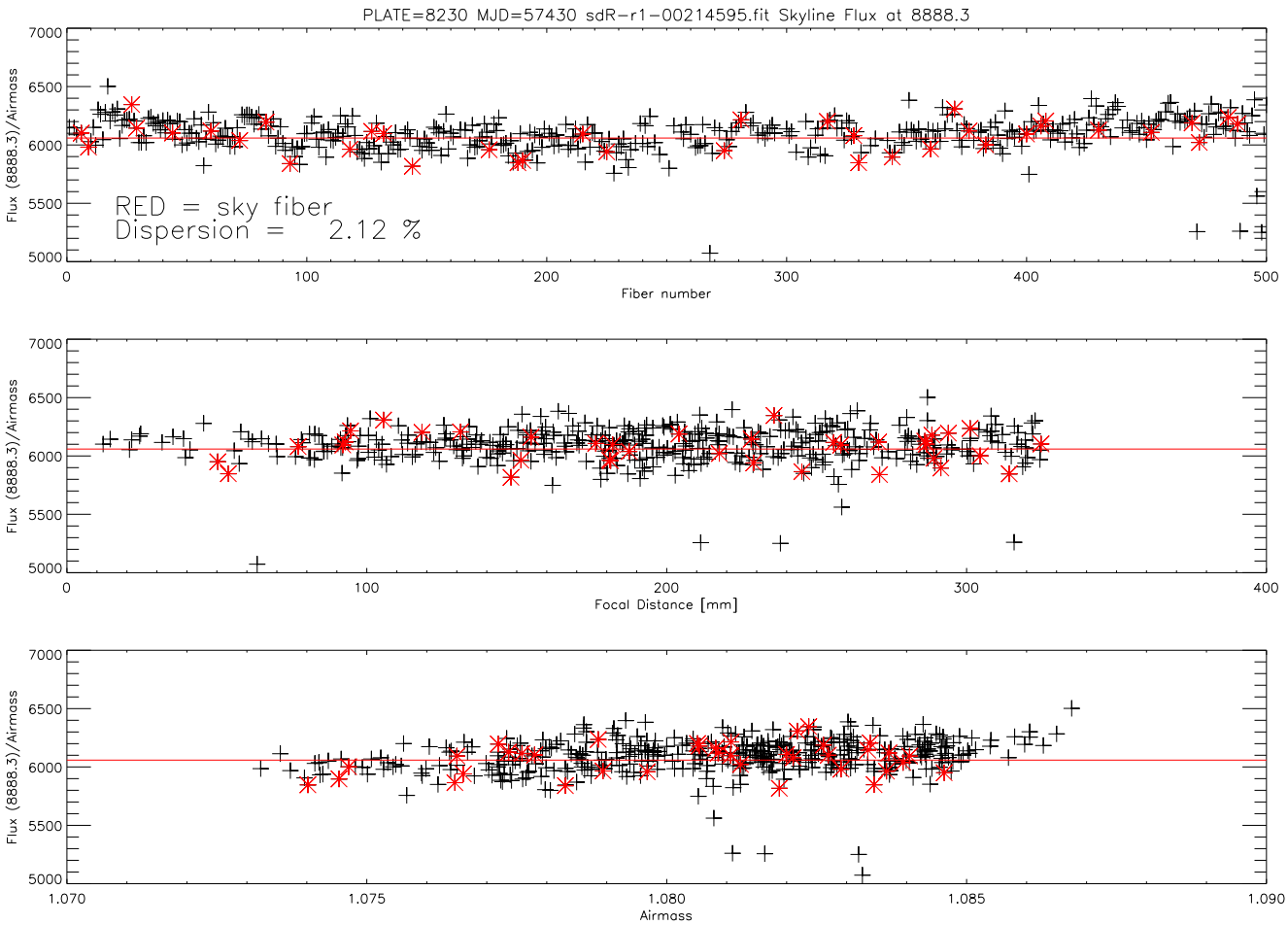

PLATE=8230 MJD=57430 sdR-r1-00214595.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

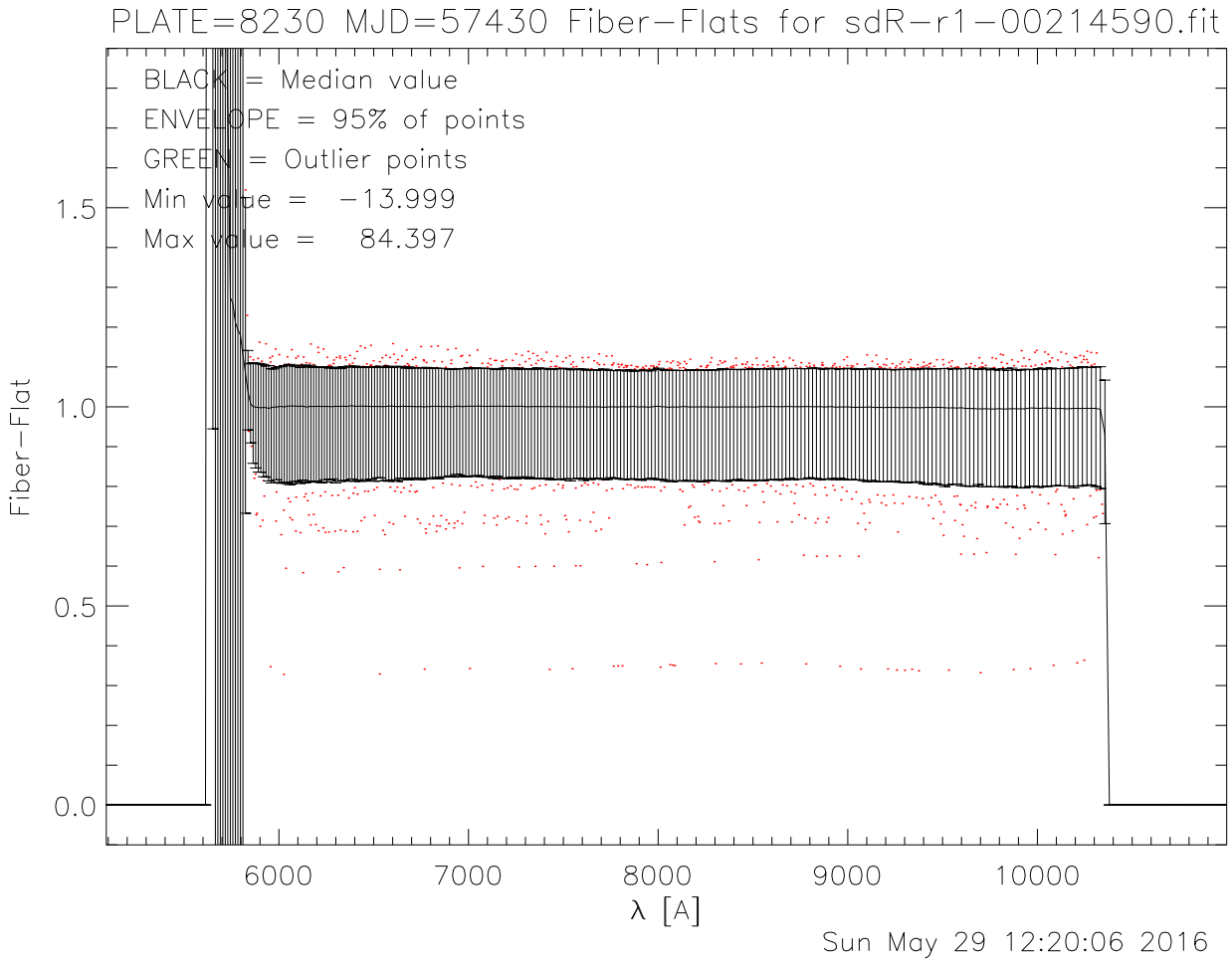

PLATE=8230 MJD=57430 sdR-r1-00214595.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

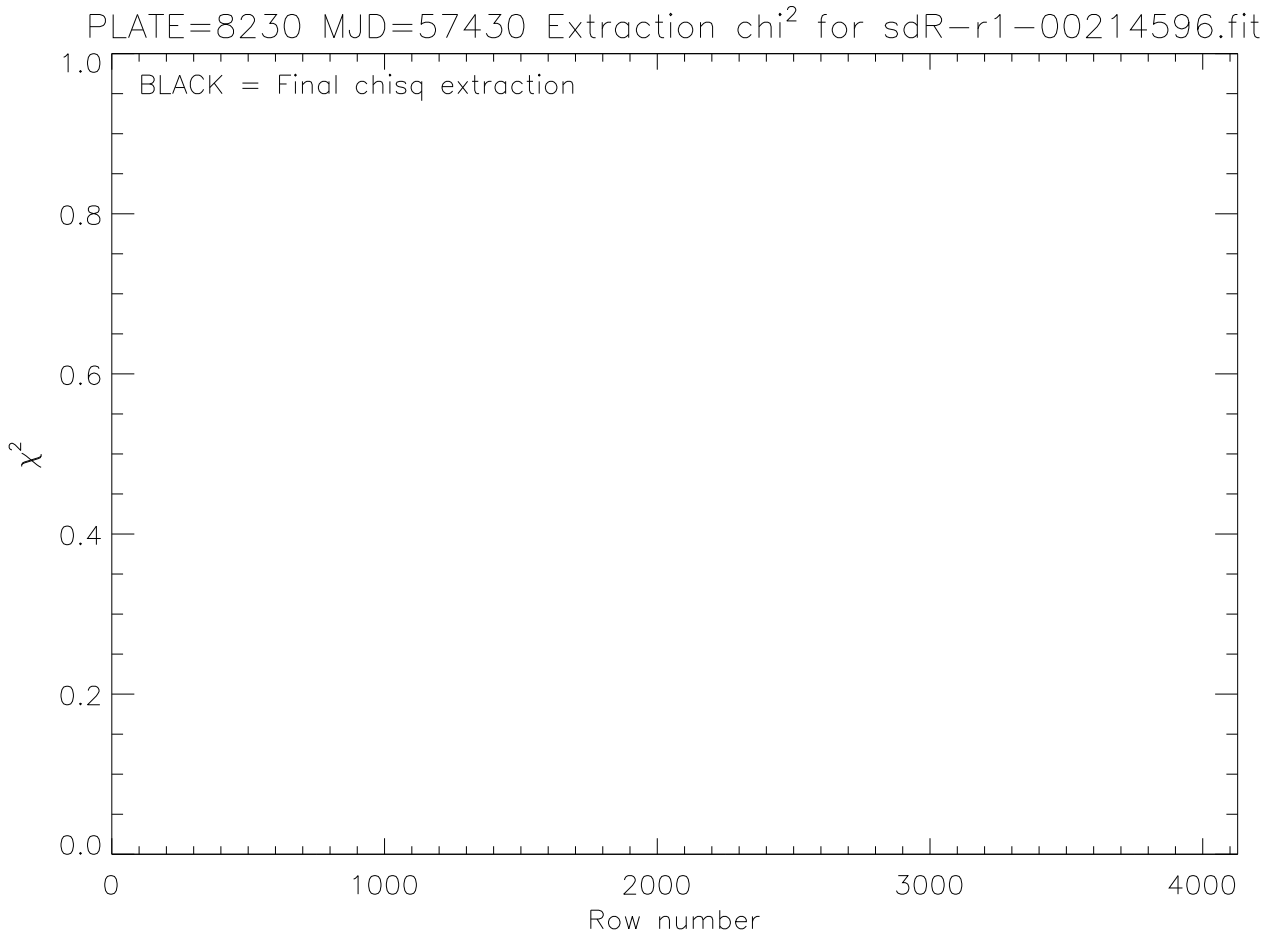
Number of sky fibers = 44

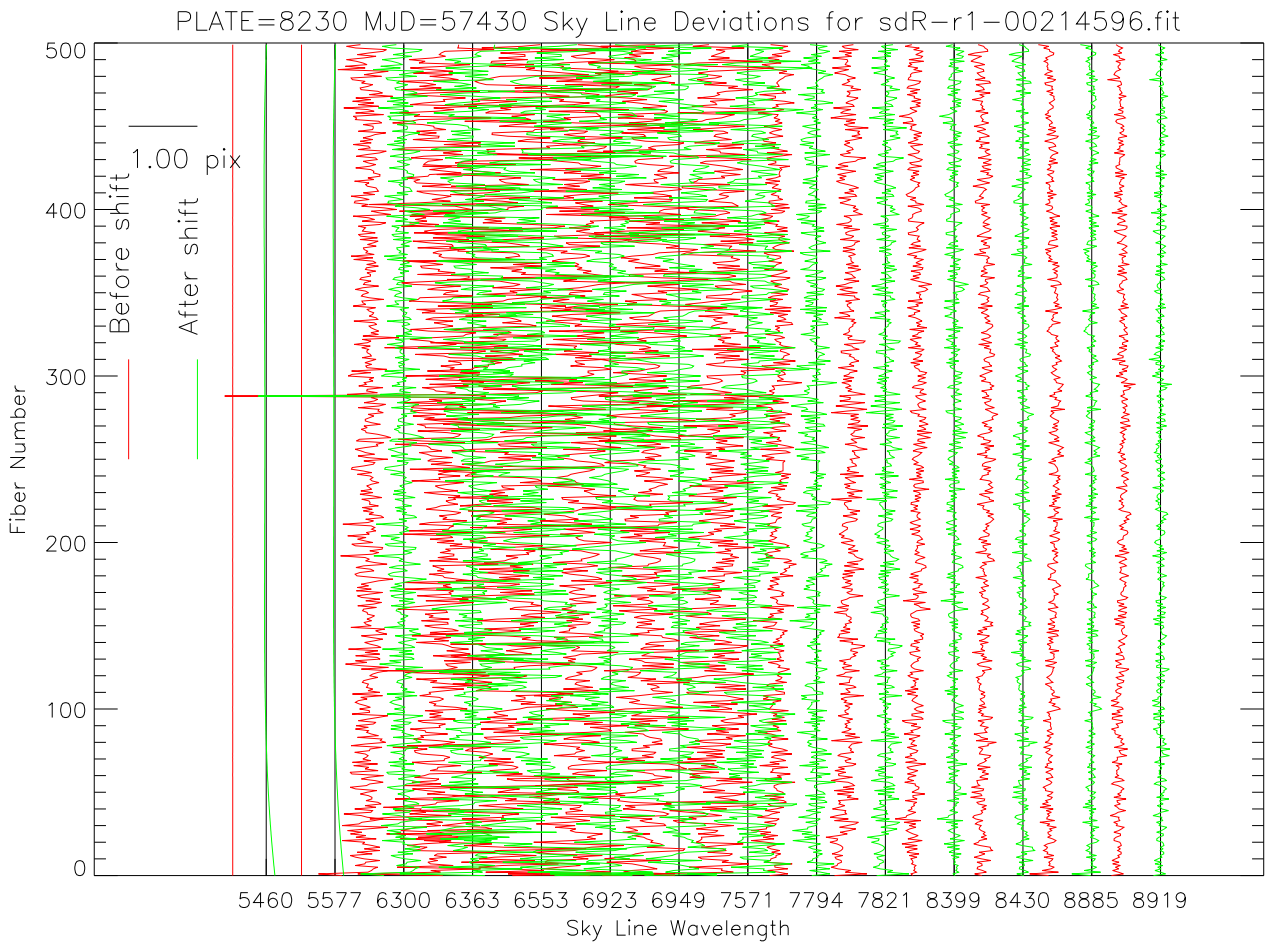


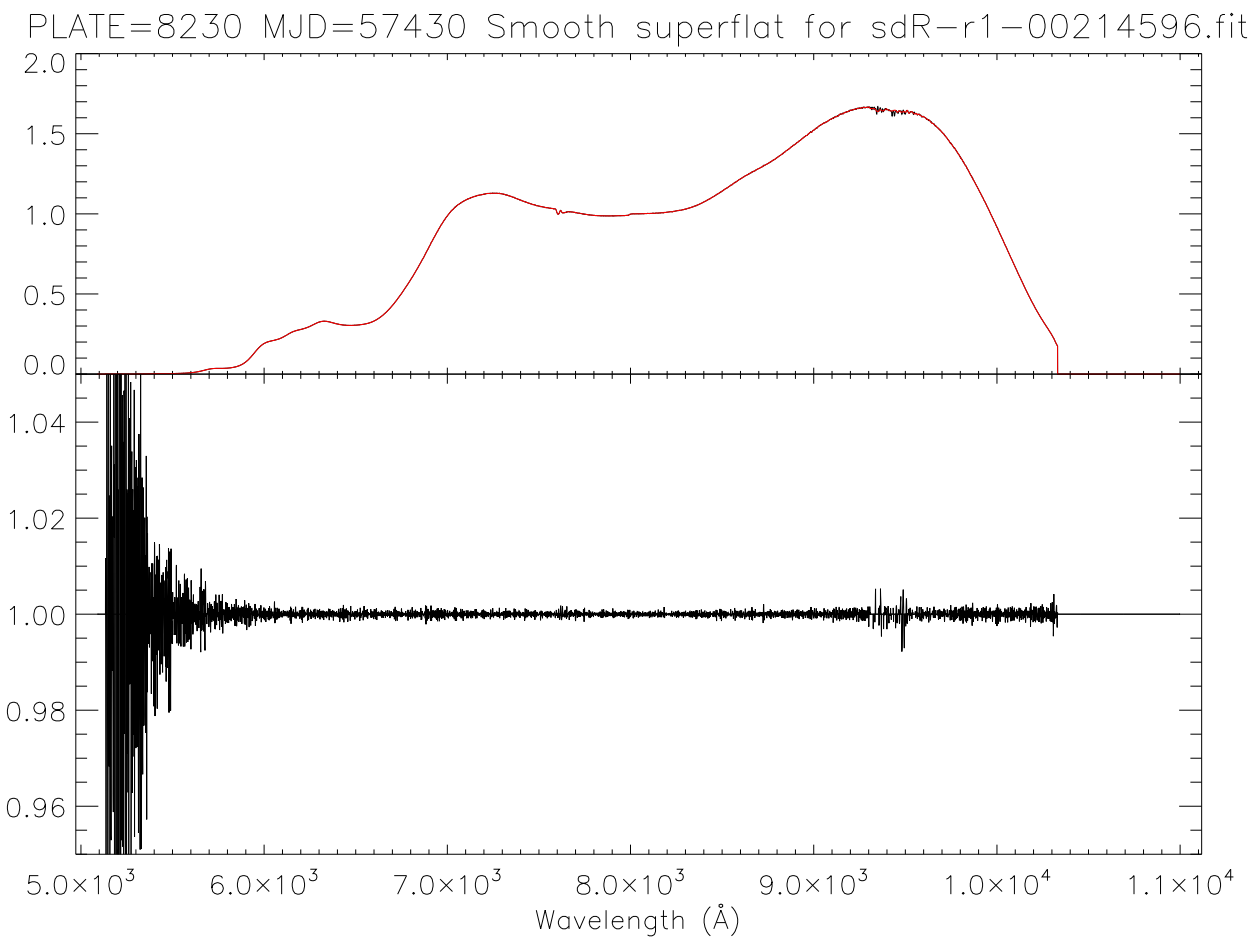

PLATE=8230 MJD=57430 sdR-r1-00214595.fit Skyline Flux at 7343.0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 1.82 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

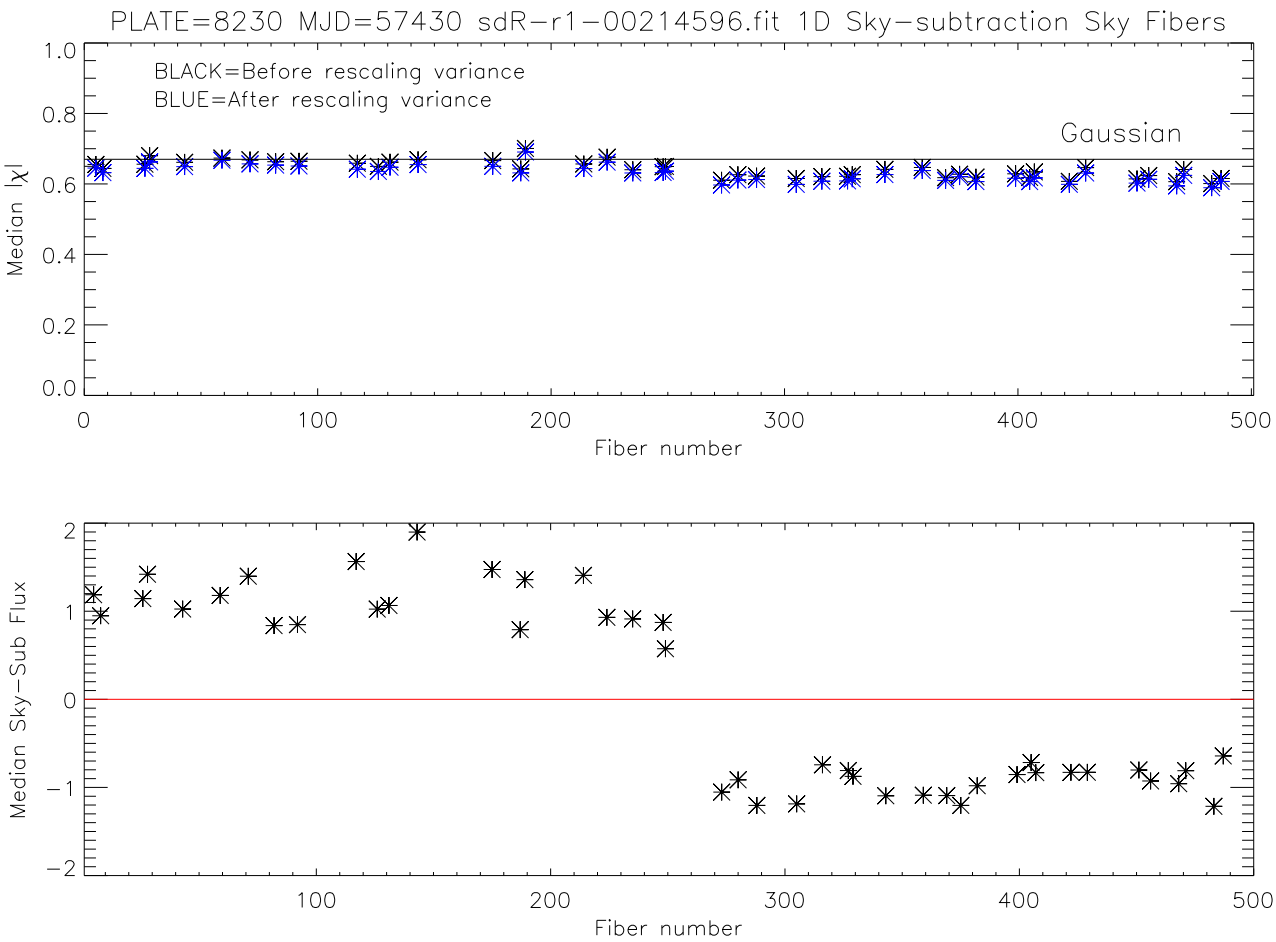

PLATE=8230 MJD=57430 sdR-r1-00214595.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.12 %
Fiber number
Focal Distance [mm]
Airmass

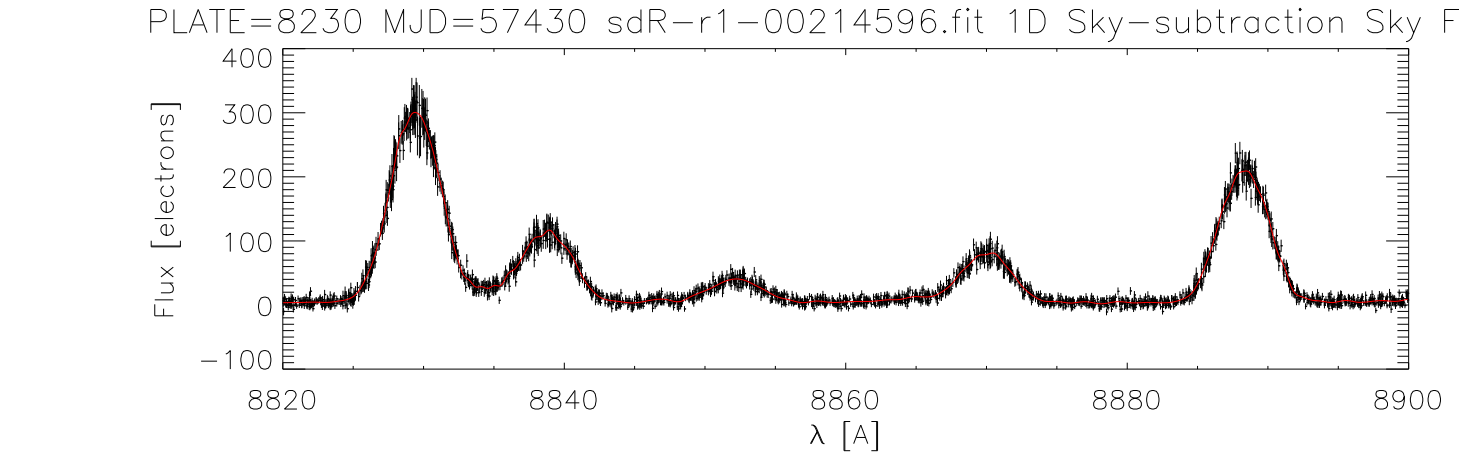

PLATE=8230 MJD=57430 Fiber−Flats for sdR−r1−00214590.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −13.999
Max value = 84.397
Fiber−Flat
1.5
1.0
0.5
0.0
6000
7000
8000
9000
10000
λ [A]
Sun May 29 12:20:06 2016

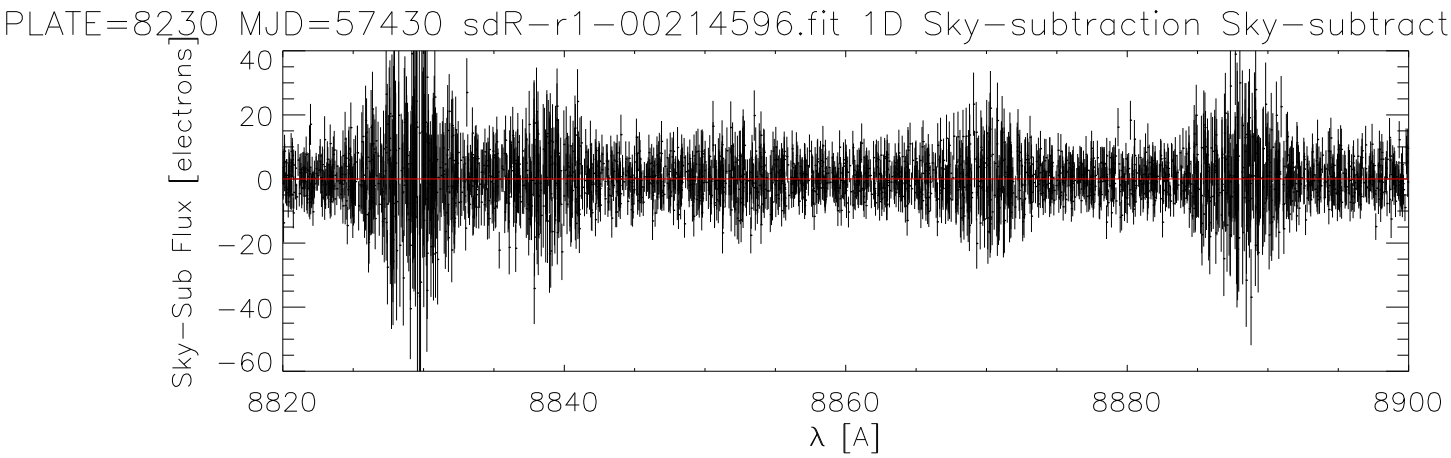

PLATE=8230 MJD=57430 Extraction chi^2 for sdR−r1−00214596.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=8230 MJD=57430 Sky Line Deviations for sdR-r1-00214596.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

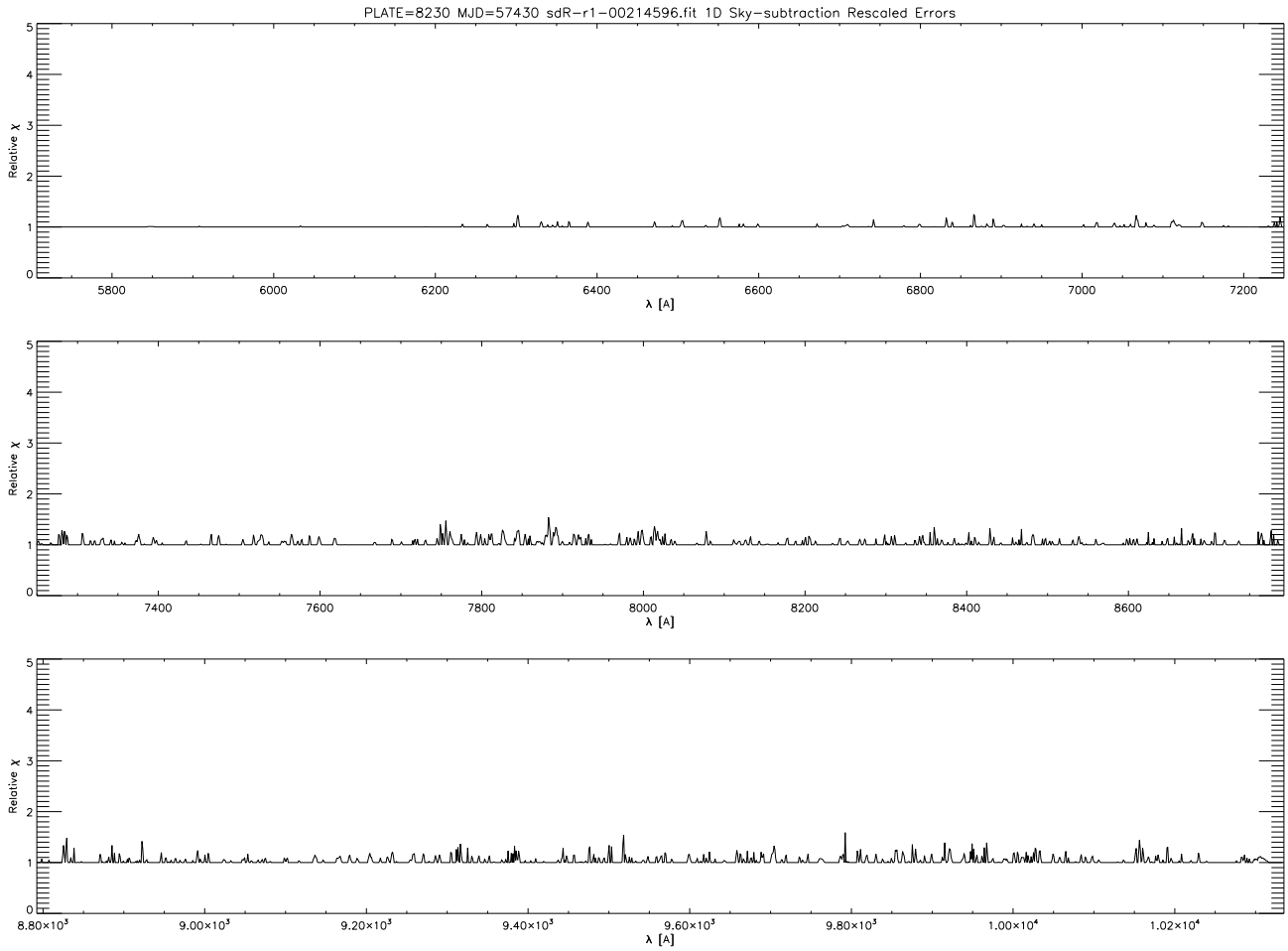

PLATE=8230 MJD=57430 Smooth superflat for sdR-r1-00214596.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

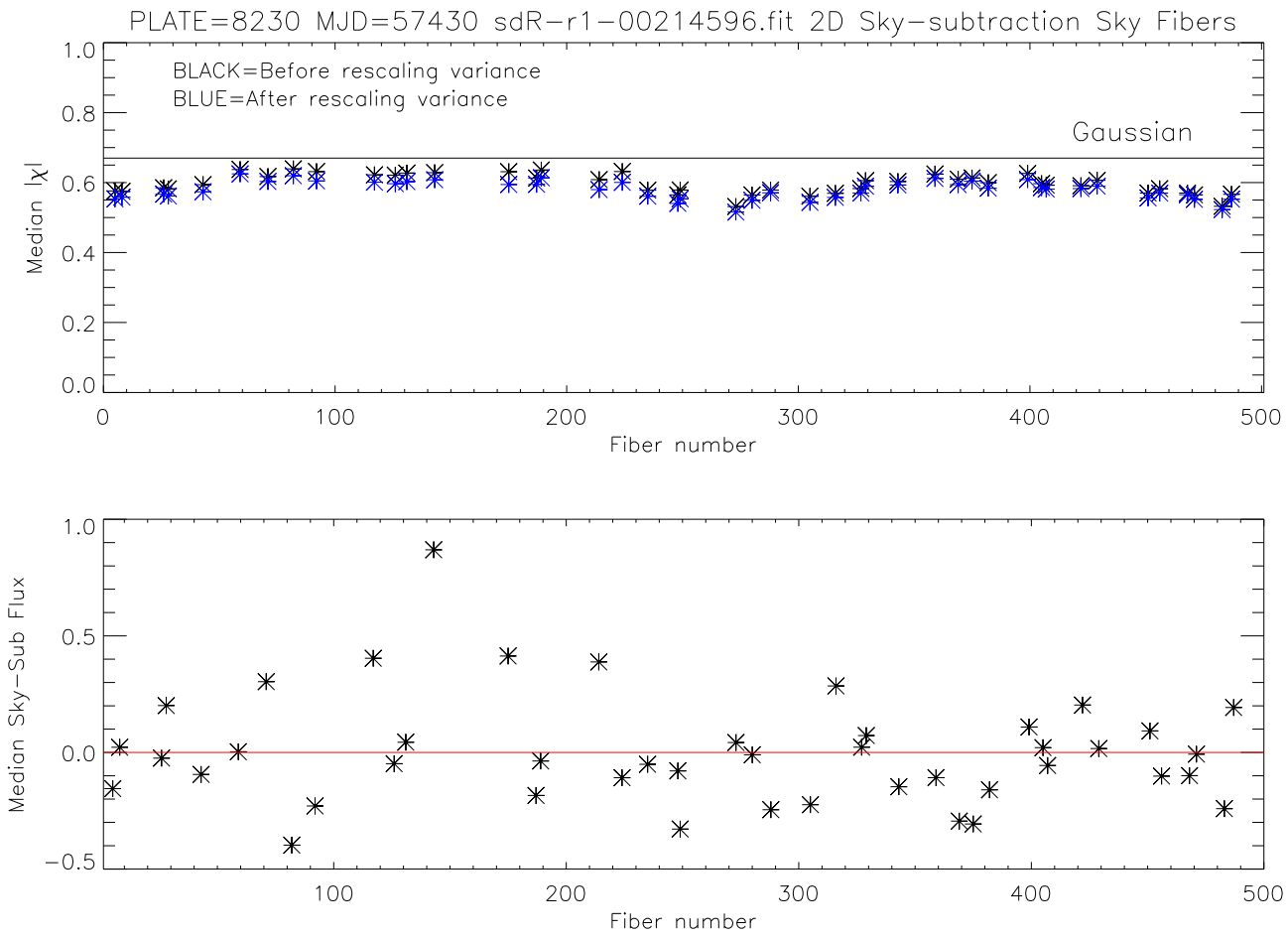

PLATE=8230 MJD=57430 sdR-r1-00214596.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

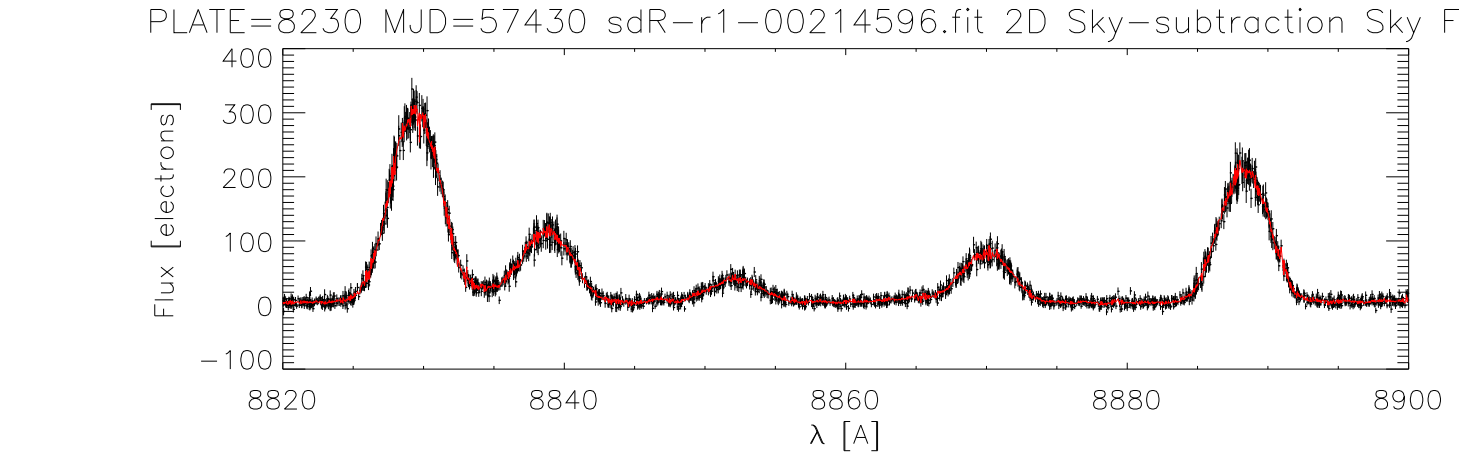

PLATE=8230 MJD=57430 sdR-r1-00214596.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
400
300
200
100
0
-100
8820
8840
8860
8880
8900
λ [A]

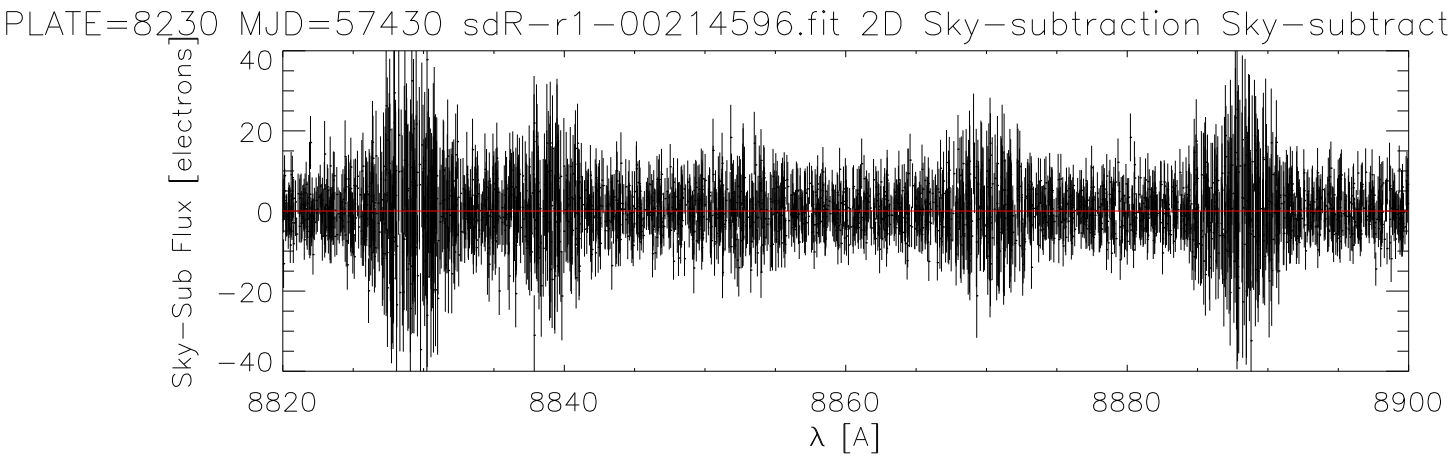

PLATE=8230 MJD=57430 sdR-r1-00214596.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
40
20
0
-20
-40
-60
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 44

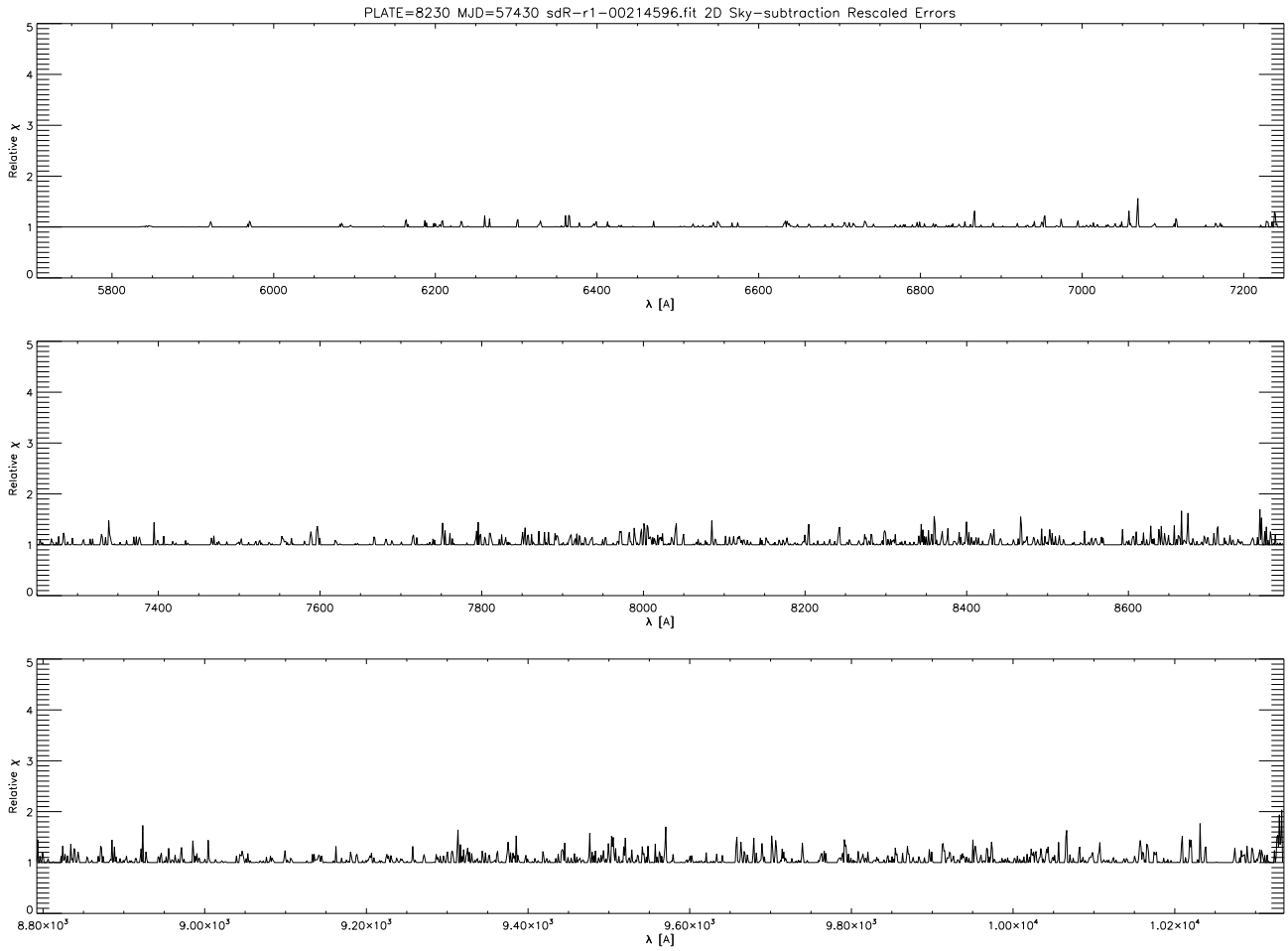


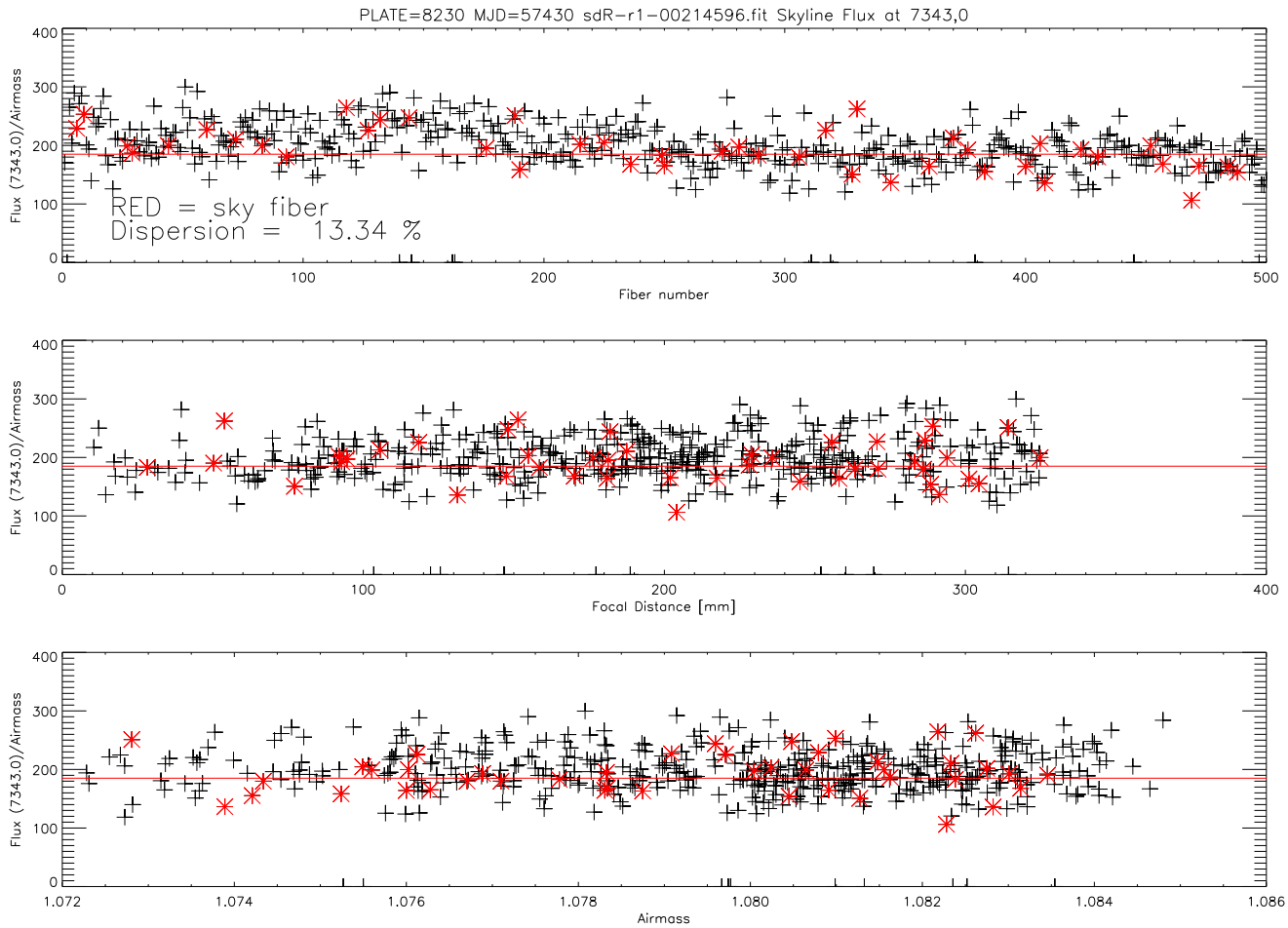

PLATE=8230 MJD=57430 sdR-r1-00214596.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

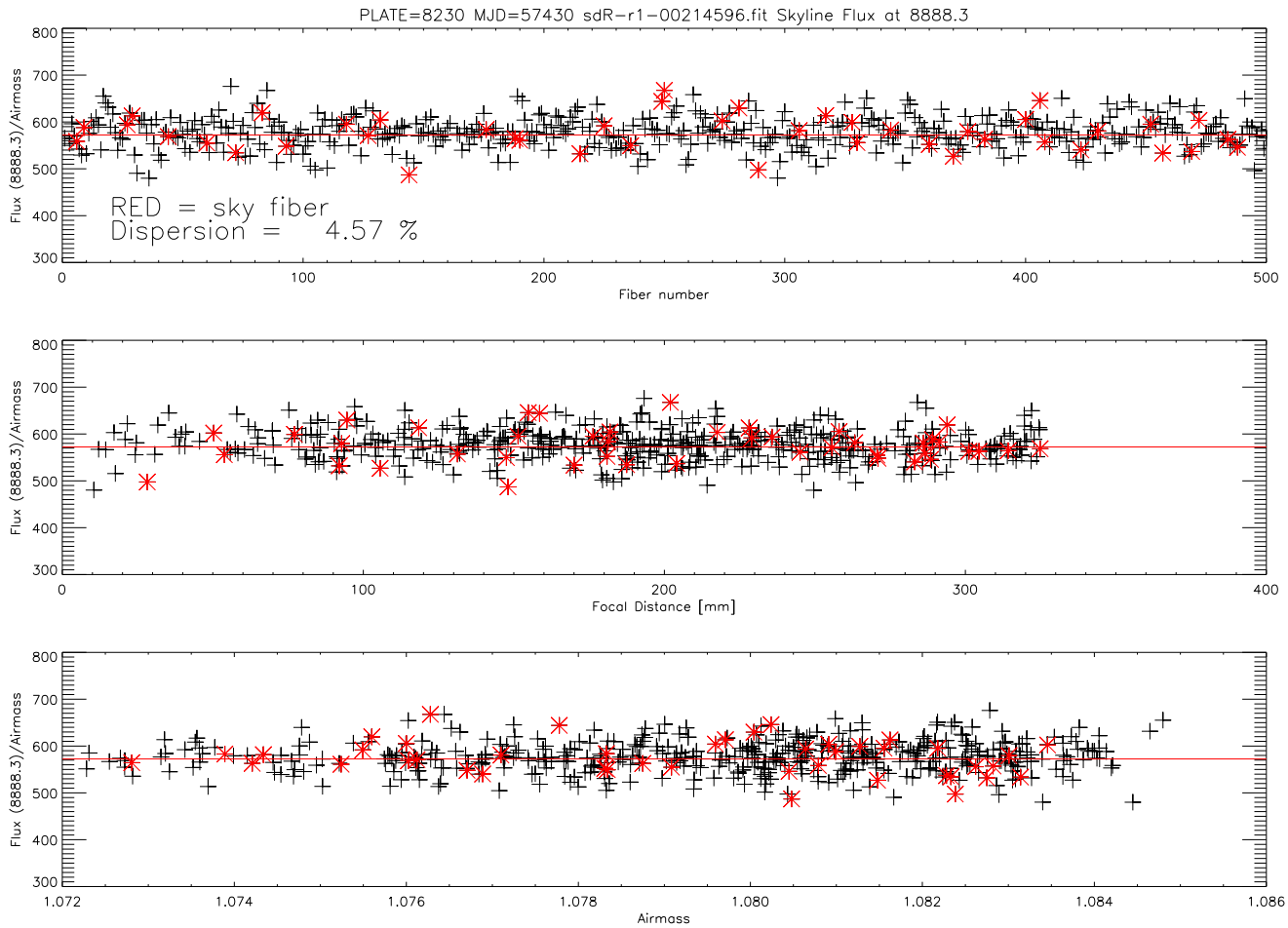

PLATE=8230 MJD=57430 sdR-r1-00214596.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
400
300
200
100
0
−100
8820
8840
8860
8880
8900
λ [A]


PLATE=8230 MJD=57430 sdR-r1-00214596.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
40
20
0
−20
−40
8820
8840
8860
8880
8900
λ [A]

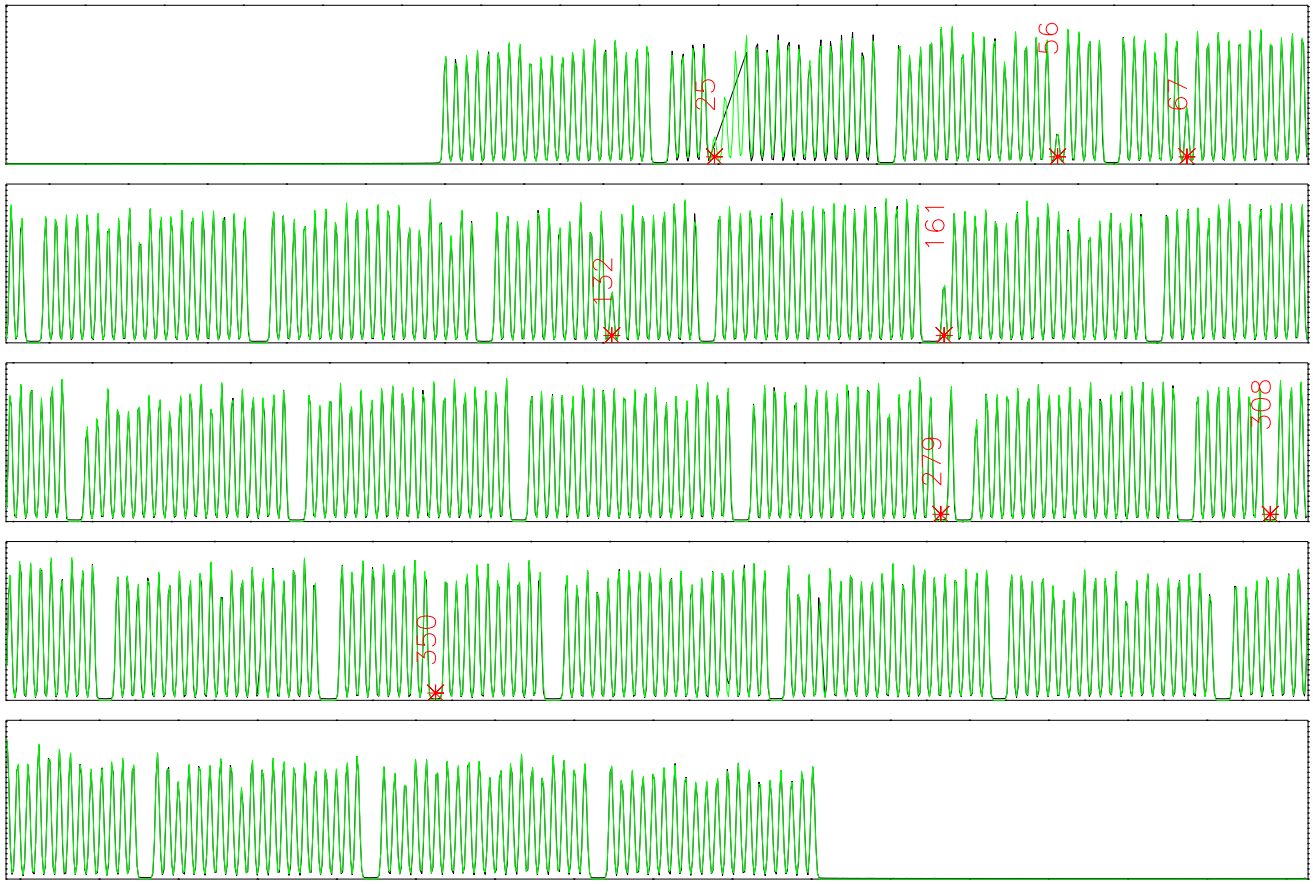
Number of sky fibers = 44

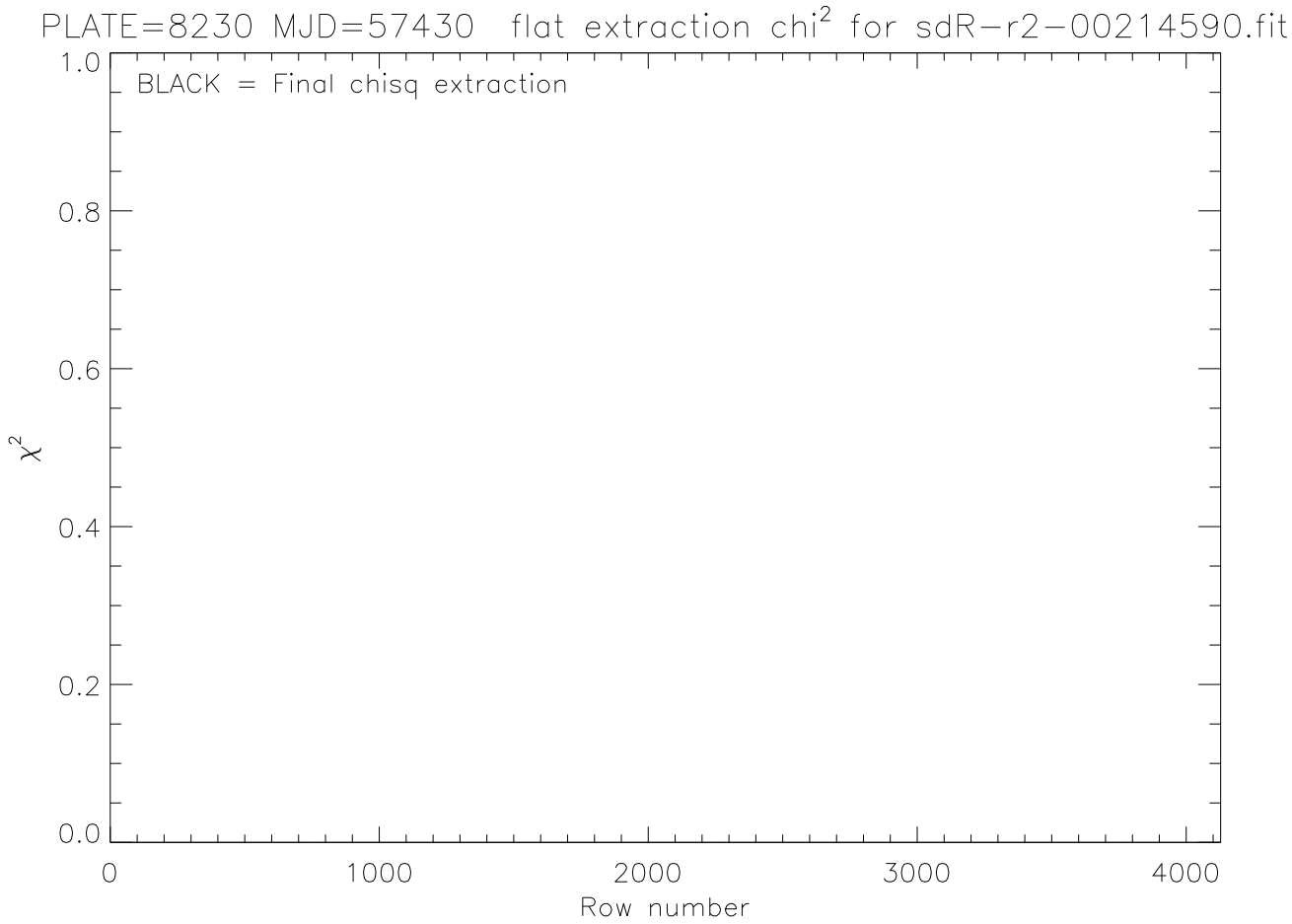


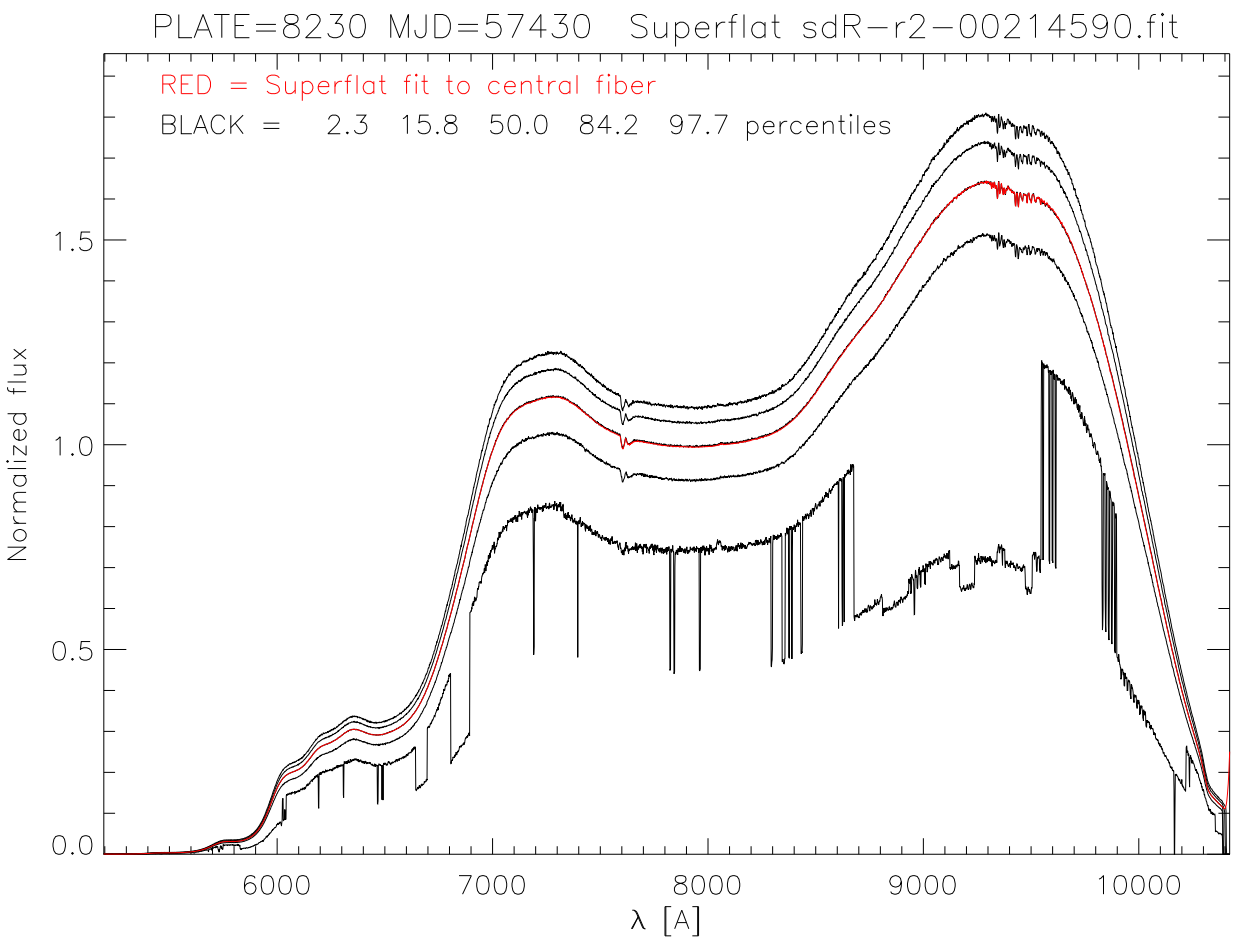

PLATE=8230 MJD=57430 sdR-r1-00214596.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 13.34 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

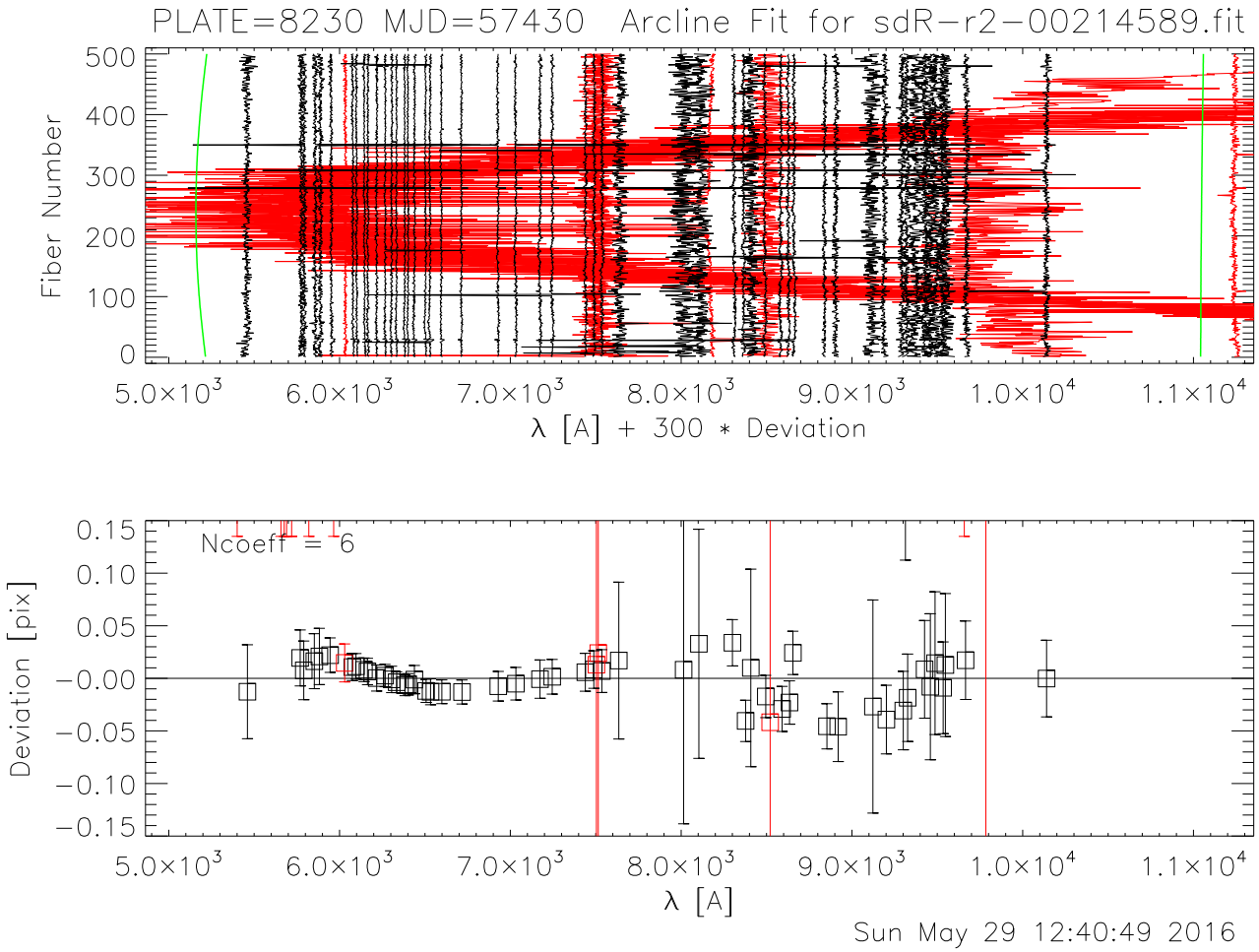

PLATE=8230 MJD=57430 sdR-r1-00214596.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 4.57 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

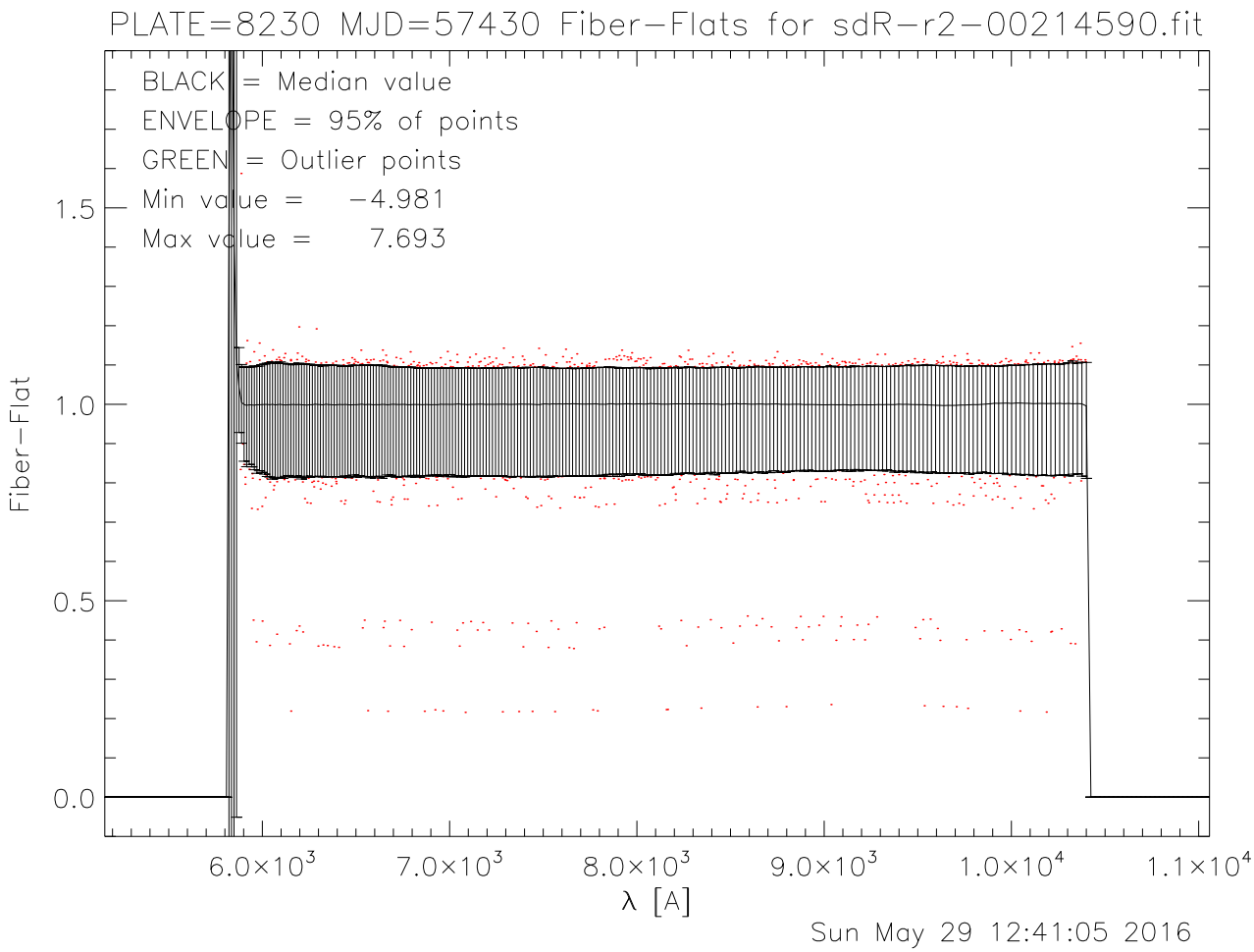
PLATE=8230 MJD=57430 Traces sdR-r2-00214590.fit

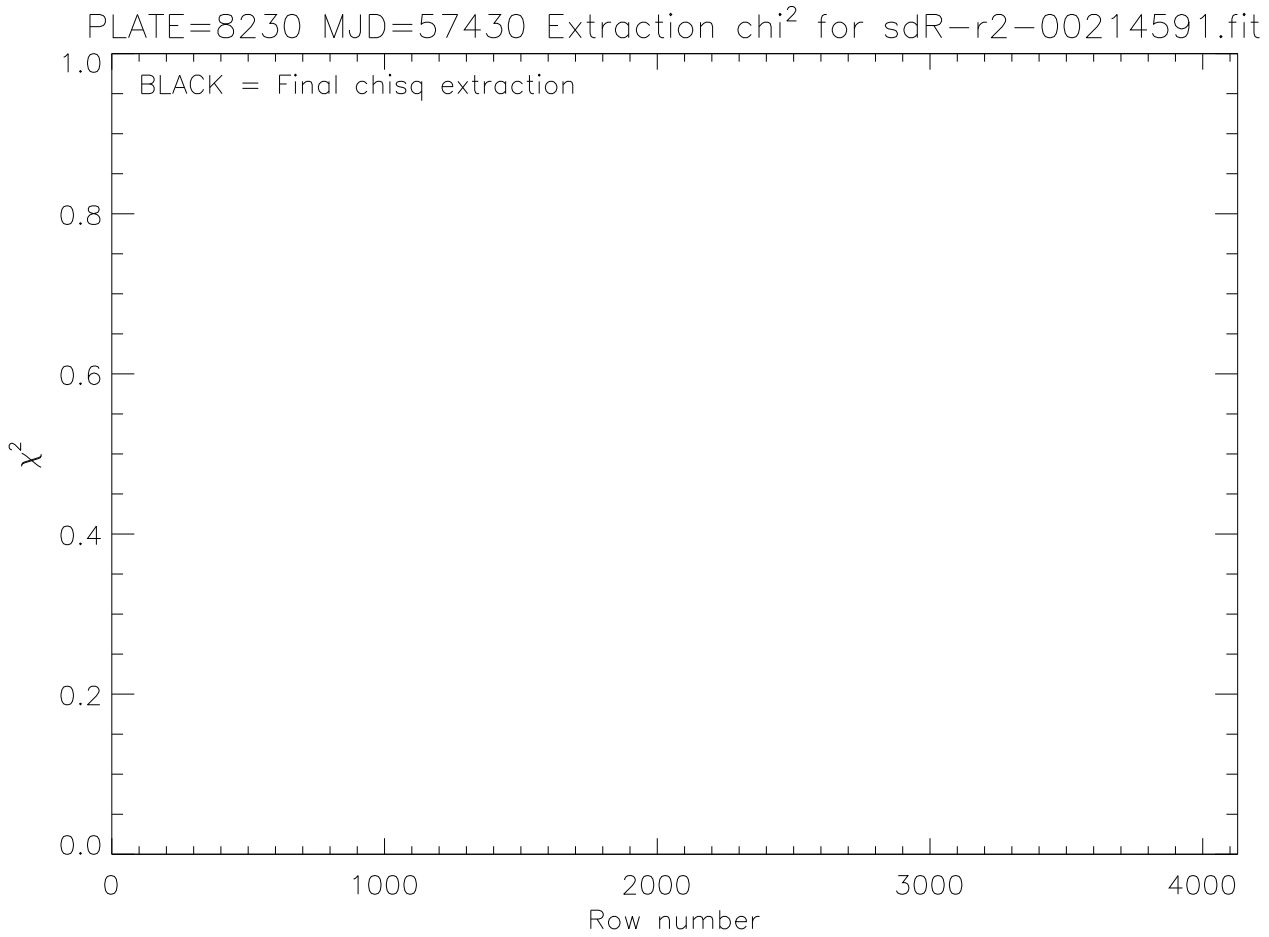


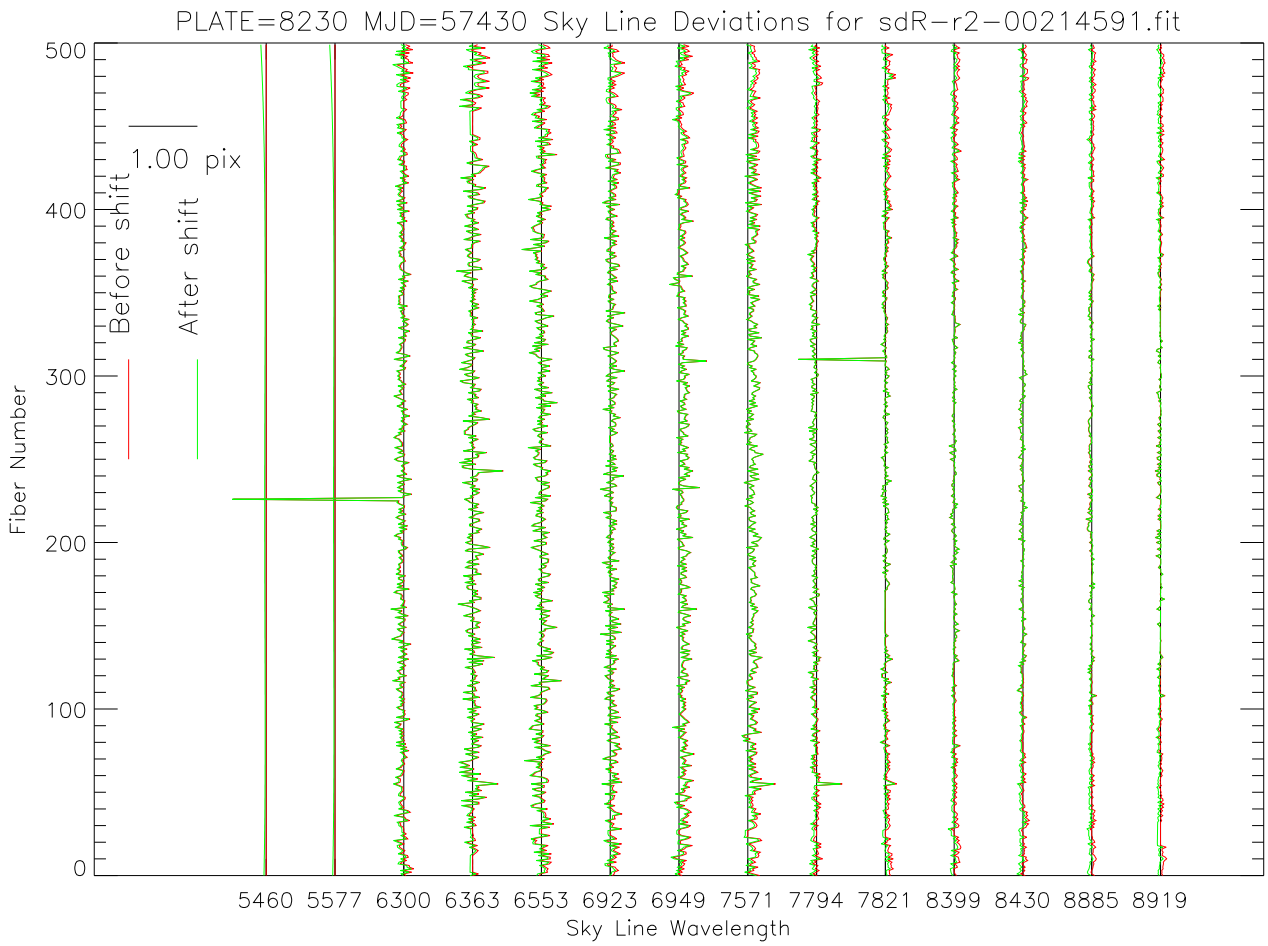

PLATE=8230 MJD=57430 flat extraction chi^2 for sdR−r2−00214590.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number

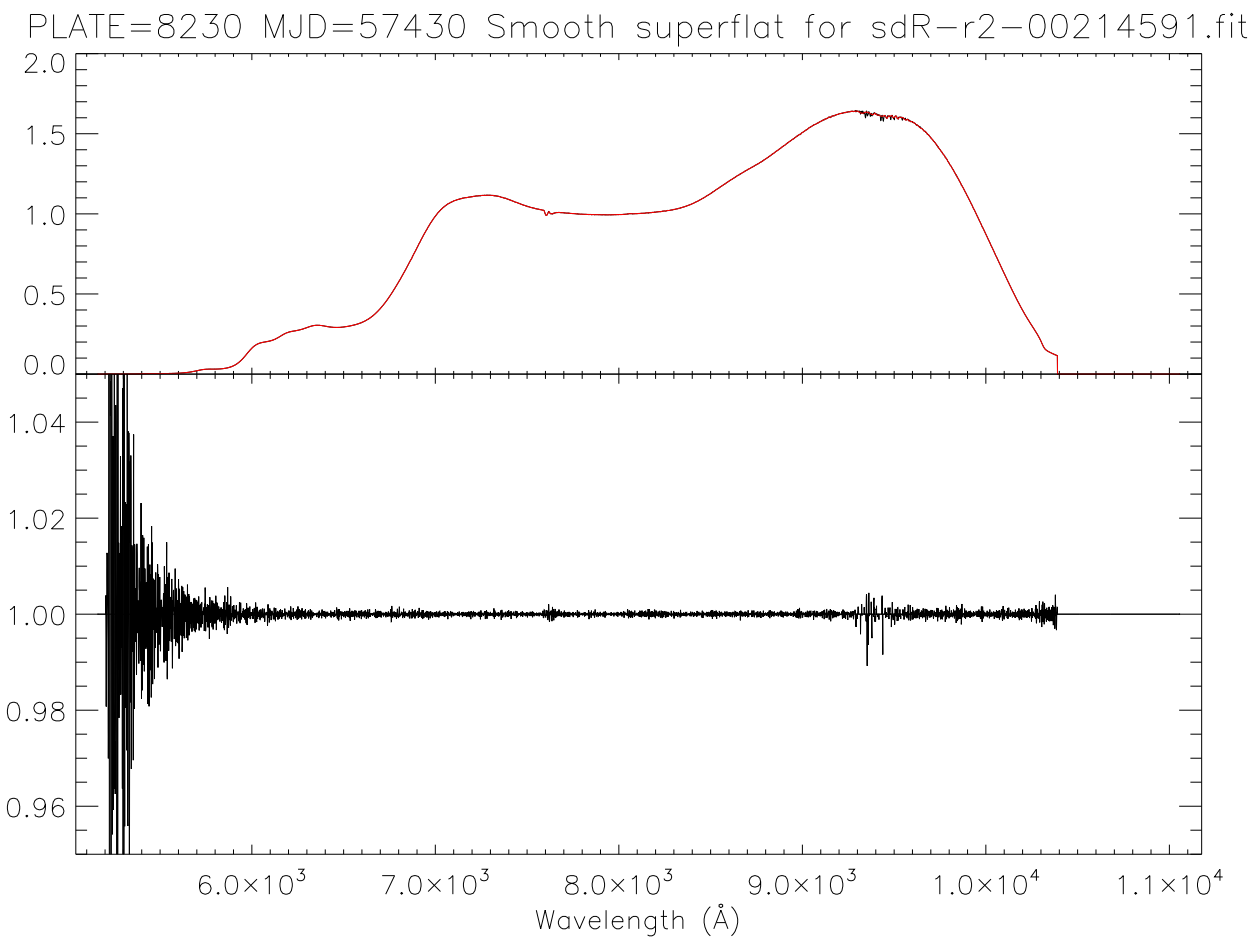

PLATE=8230 MJD=57430 Superflat sdR-r2-00214590.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
0.0
0.5
1.0
1.5
6000
7000
8000
9000
10000
λ [A]

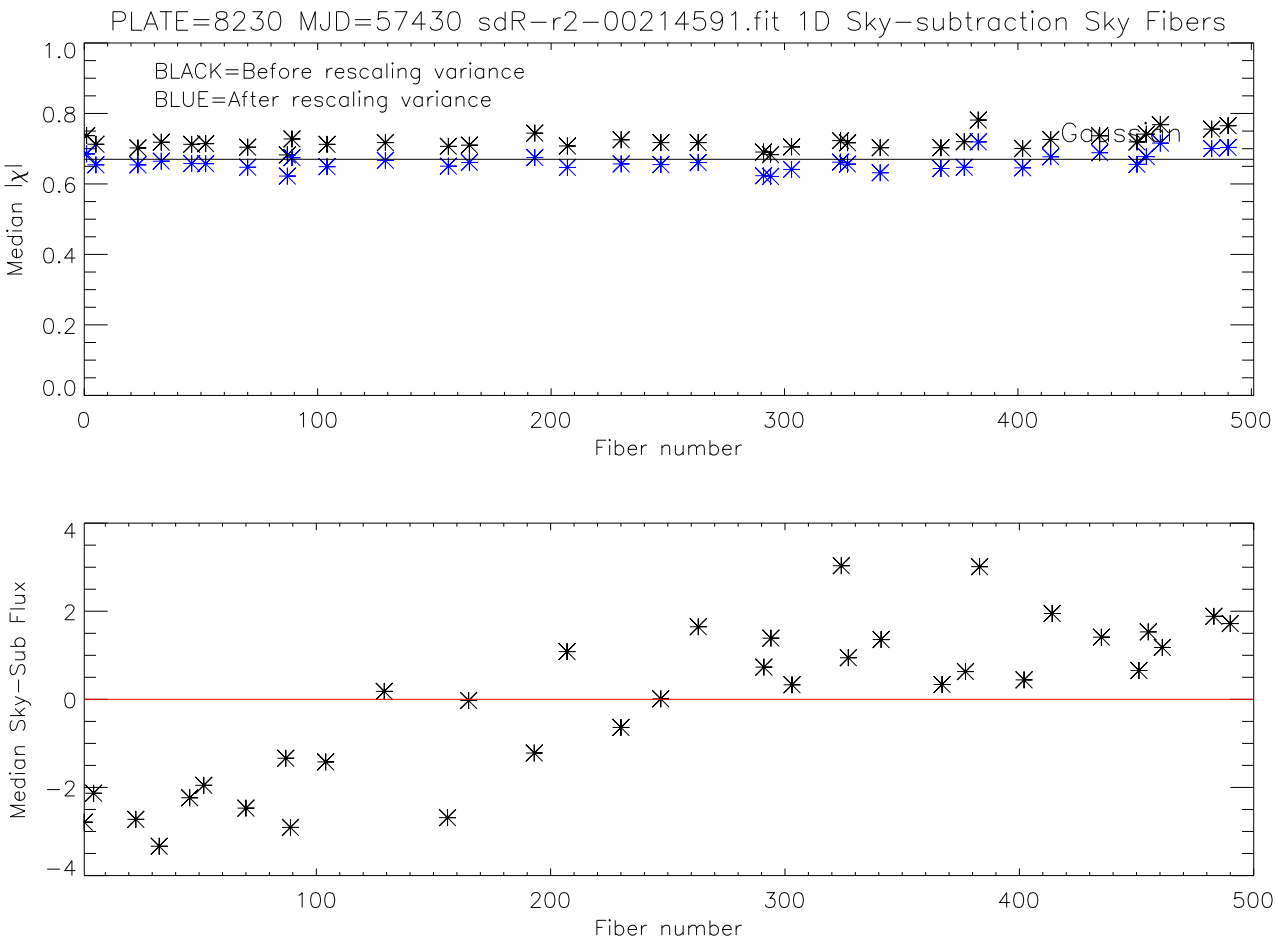

PLATE=8230 MJD=57430 Arcline Fit for sdR-r2-00214589.fit
Fiber Number
500
400
300
200
100
0
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A] + 300 * Deviation
Ncoeff = 6
Deviation [pix]
0.15
0.10
0.05
−0.00
−0.05
−0.10
−0.15
λ [A]
Sun May 29 12:40:49 2016

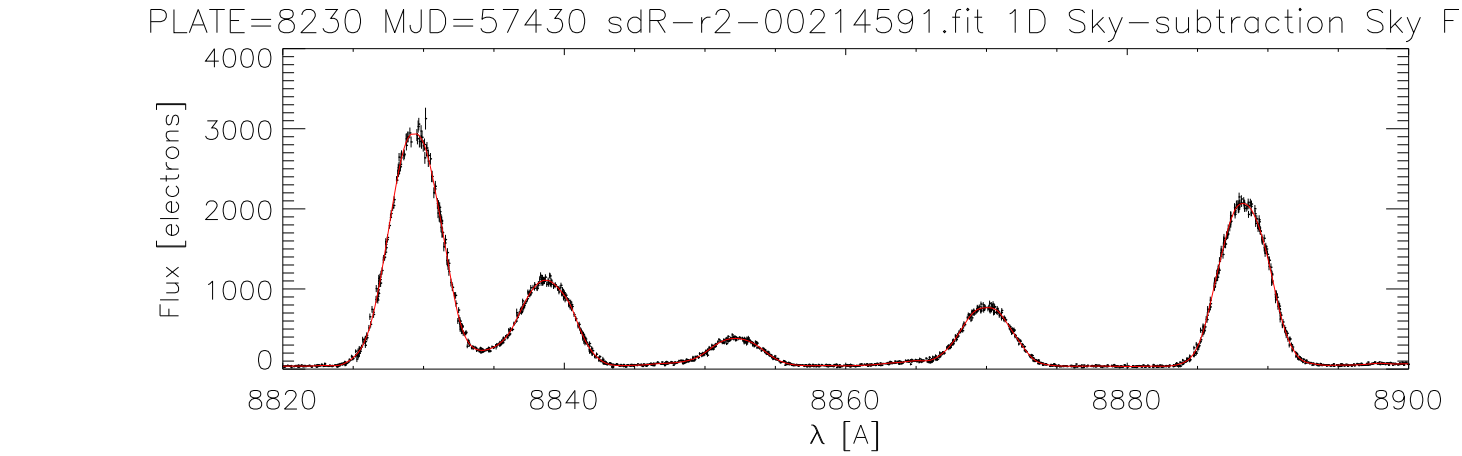

PLATE=8230 MJD=57430 Fiber−Flats for sdR−r2−00214590.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −4.981
Max value = 7.693
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Sun May 29 12:41:05 2016

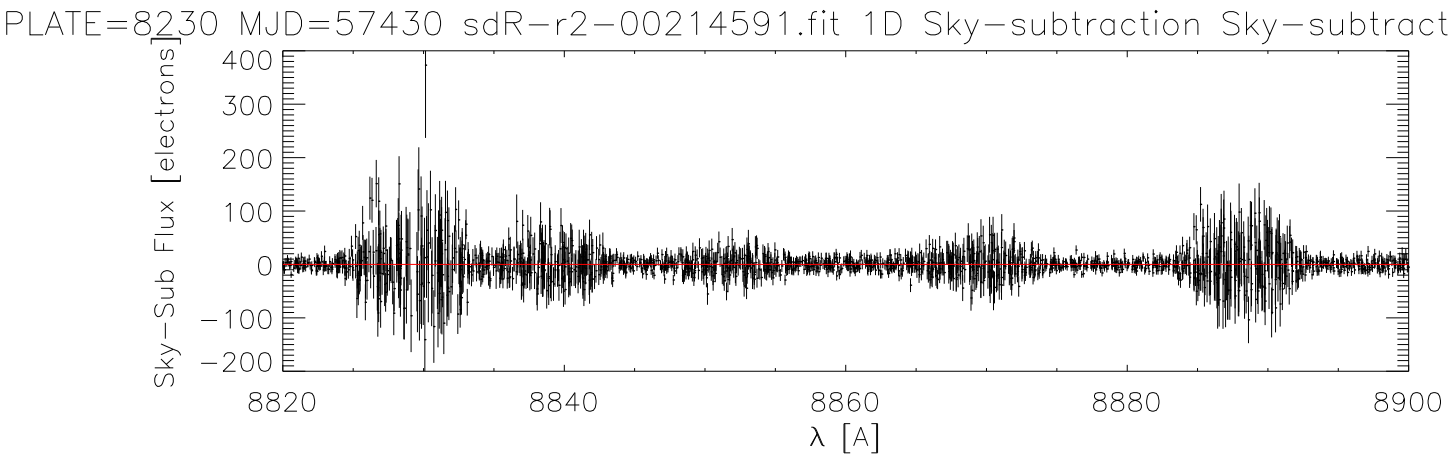

PLATE=8230 MJD=57430 Extraction chi^2 for sdR−r2−00214591.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=8230 MJD=57430 Sky Line Deviations for sdR-r2-00214591.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

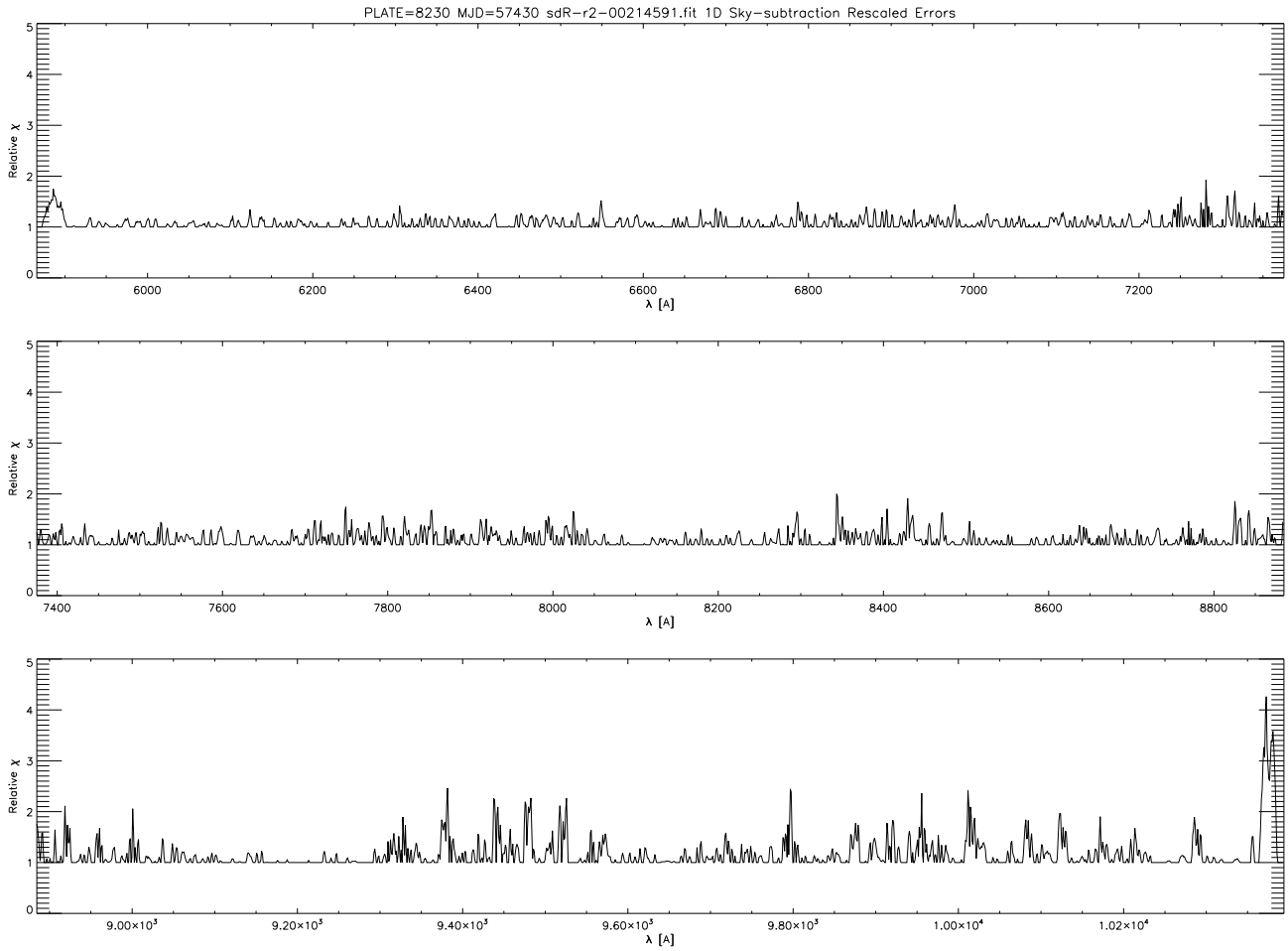

PLATE=8230 MJD=57430 Smooth superflat for sdR-r2-00214591.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

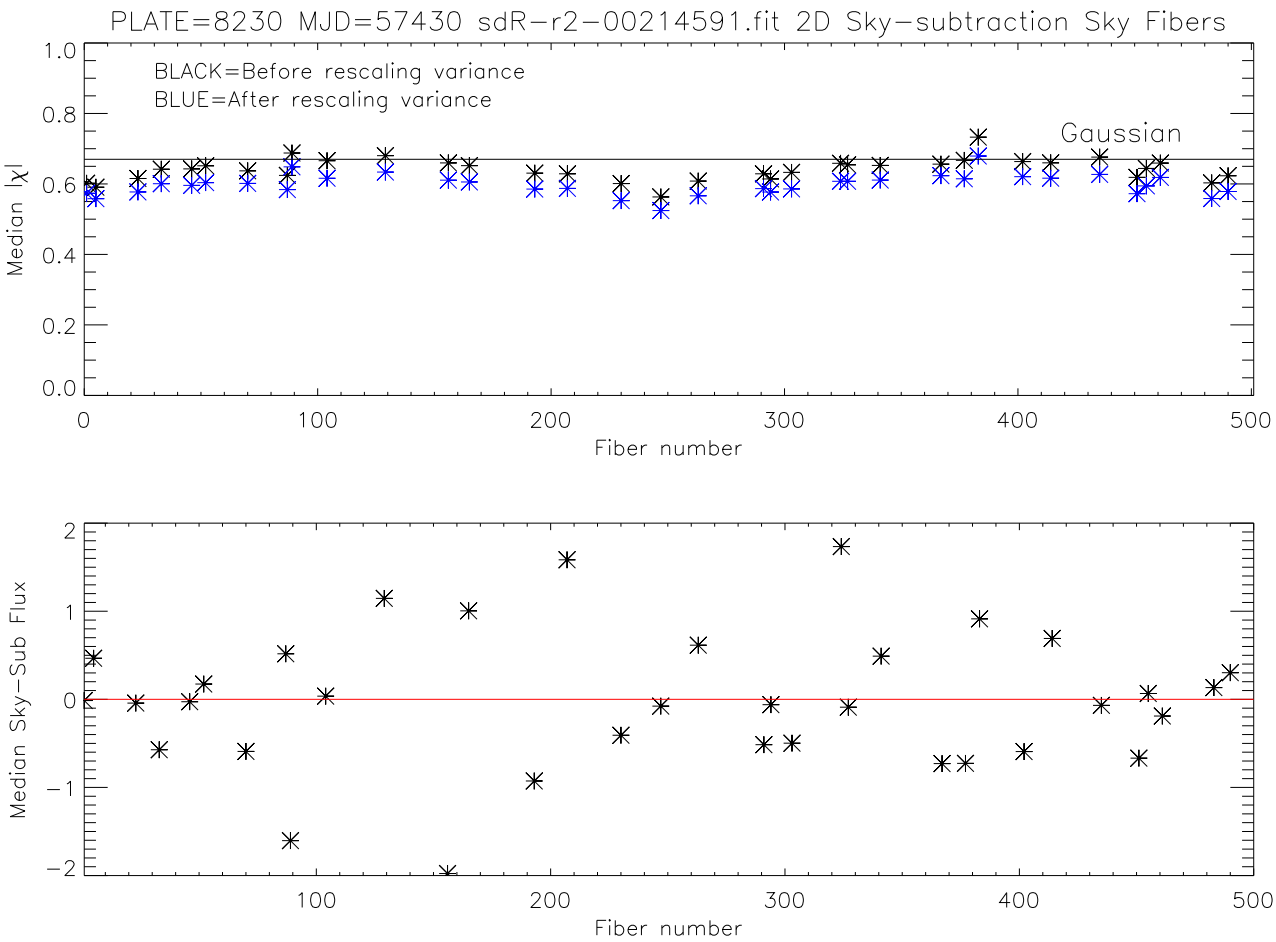

PLATE=8230 MJD=57430 sdR-r2-00214591.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

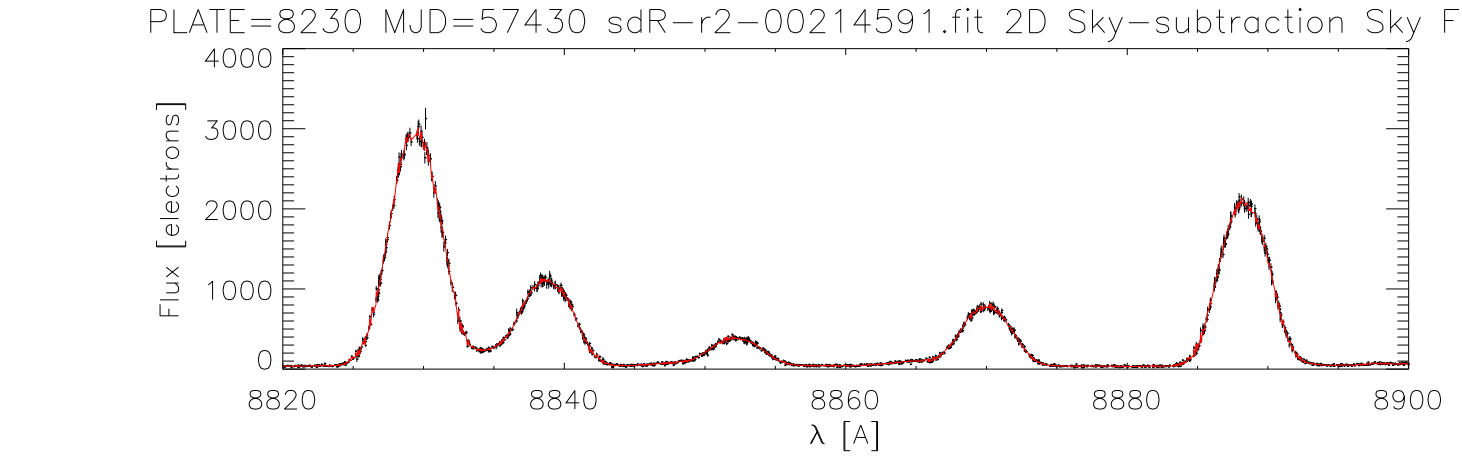

PLATE=8230 MJD=57430 sdR-r2-00214591.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

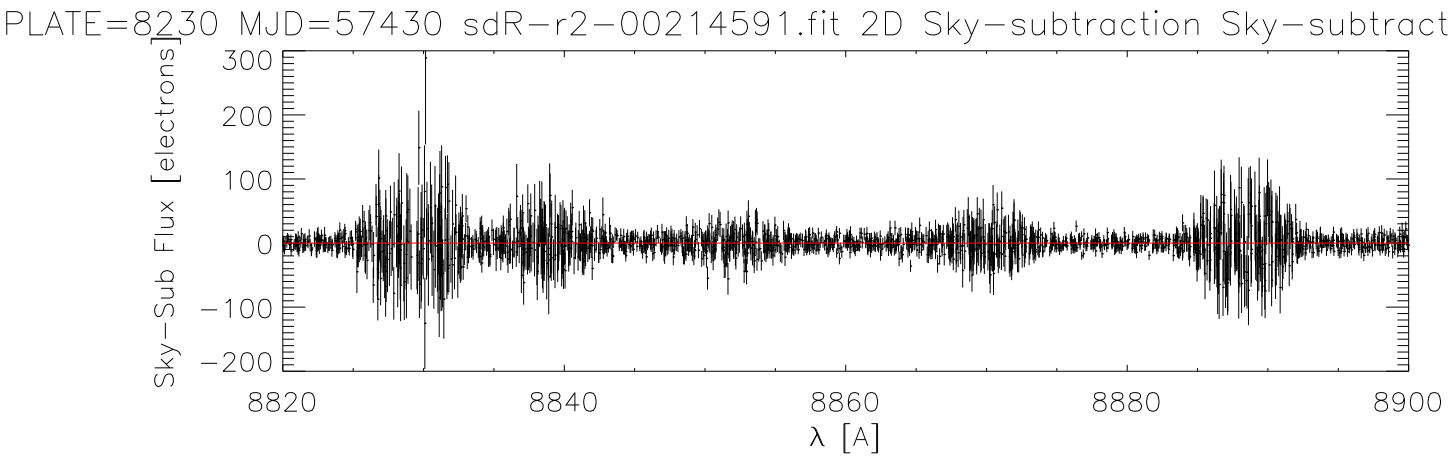

PLATE=8230 MJD=57430 sdR-r2-00214591.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 35

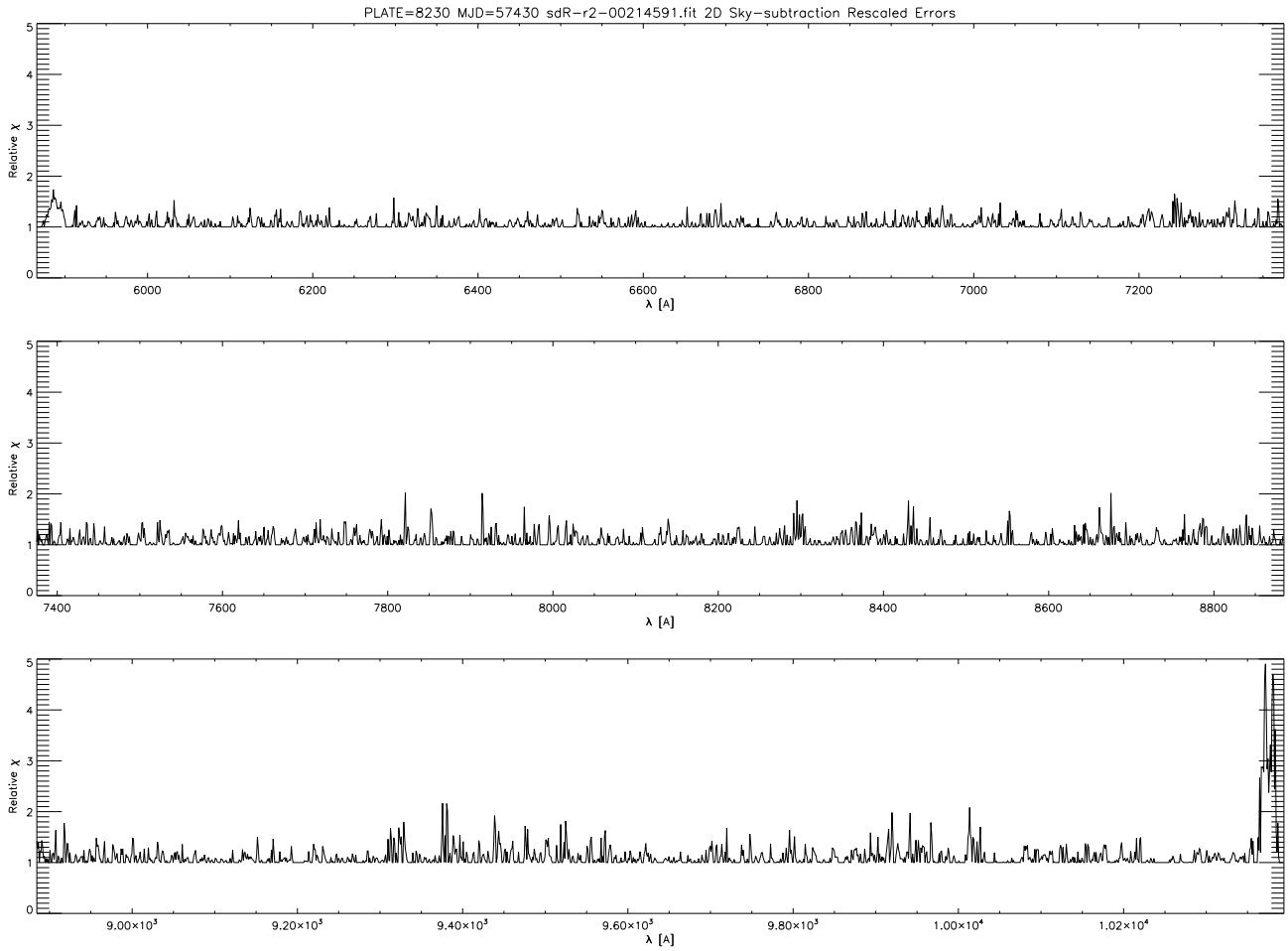


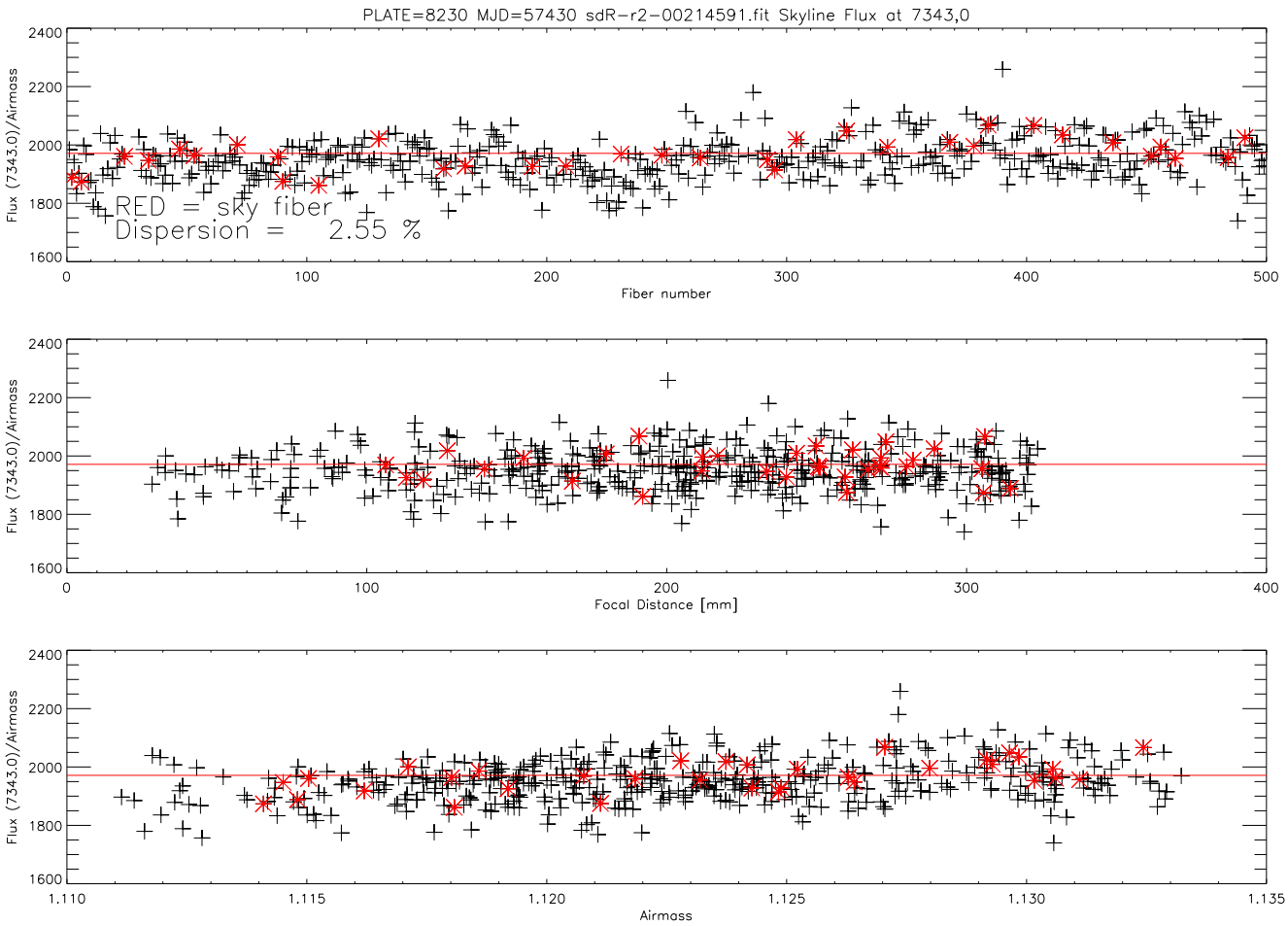

PLATE=8230 MJD=57430 sdR-r2-00214591.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

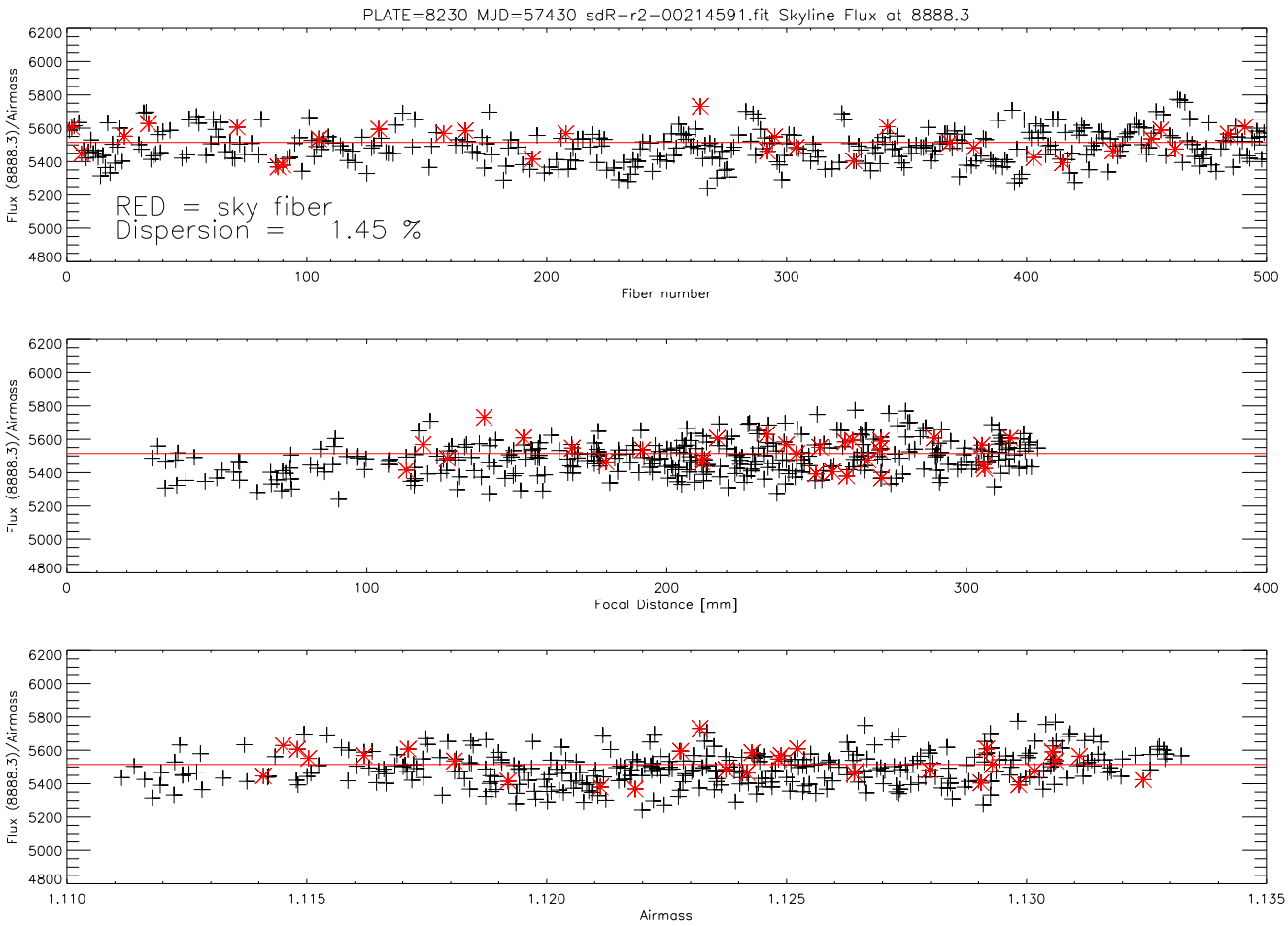

PLATE=8230 MJD=57430 sdR-r2-00214591.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

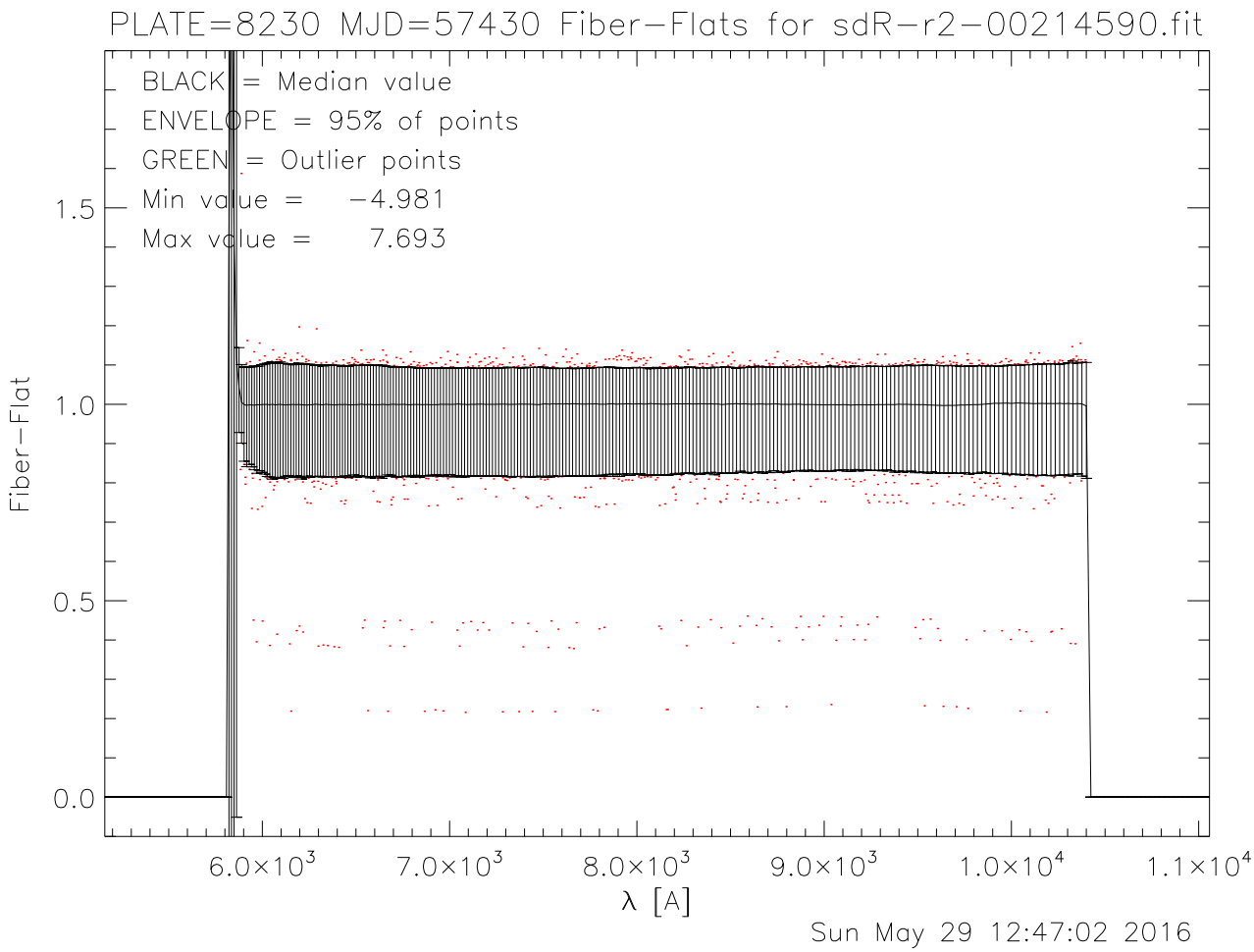

PLATE=8230 MJD=57430 sdR-r2-00214591.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

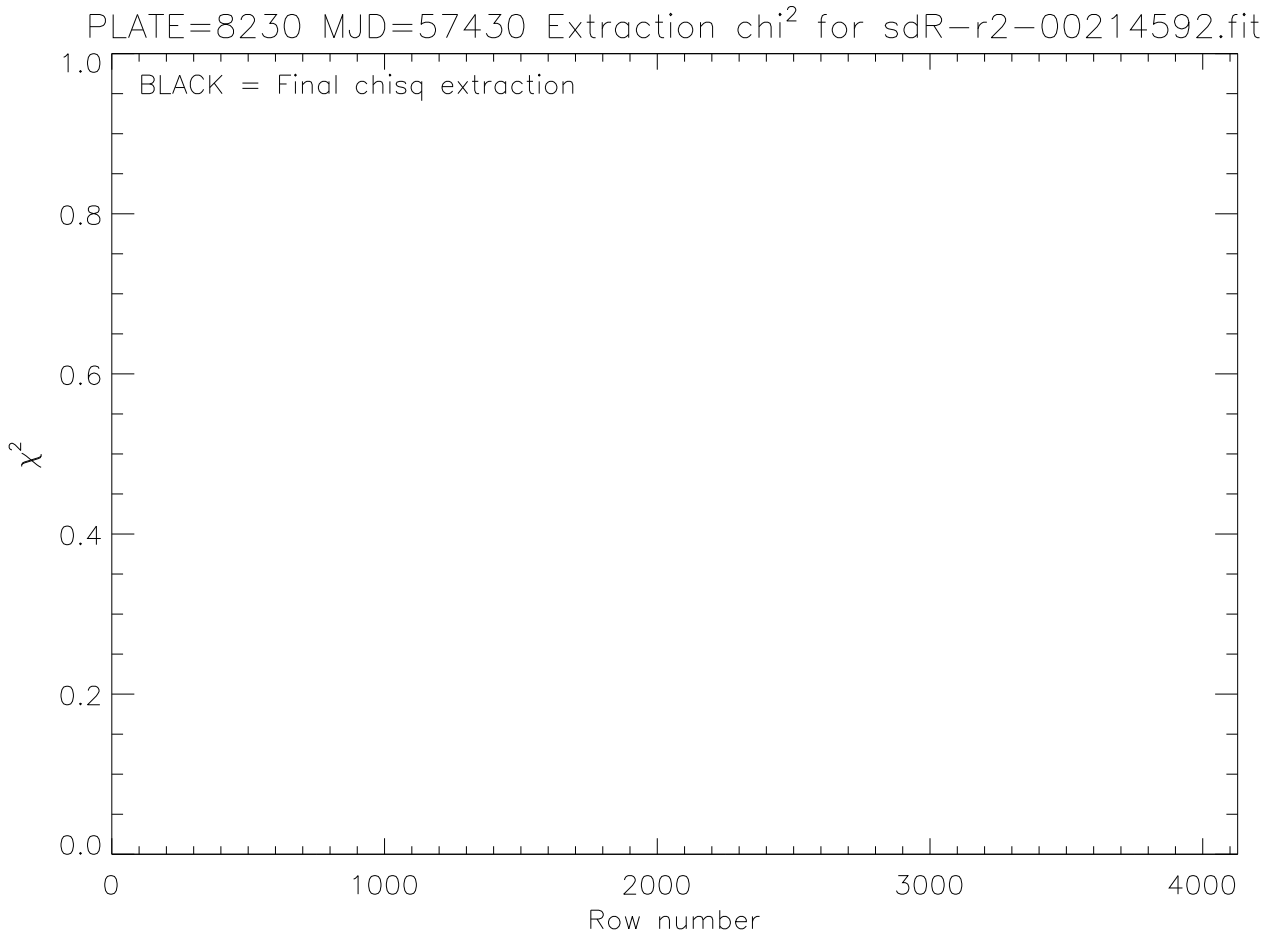
Number of sky fibers = 35

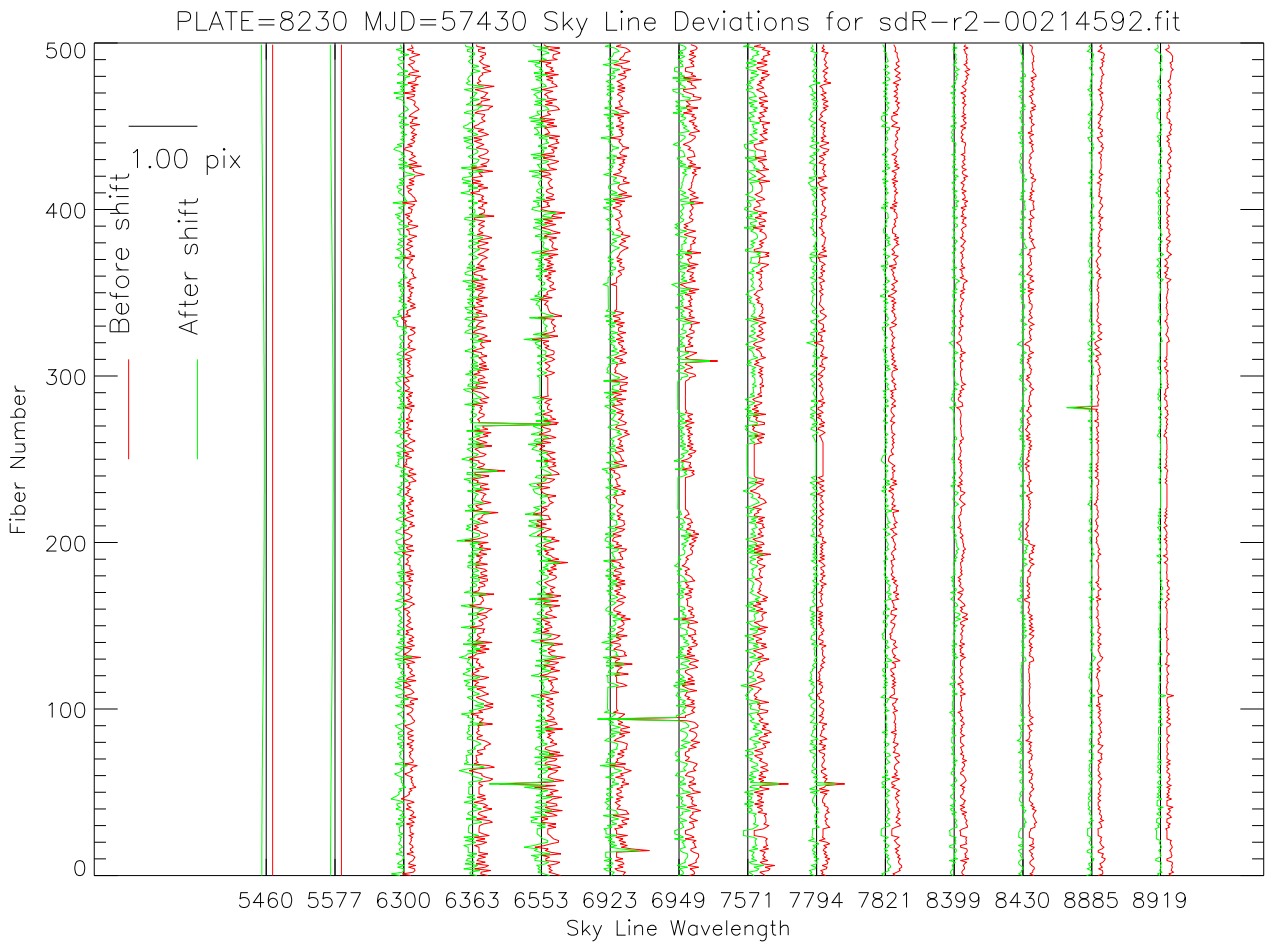


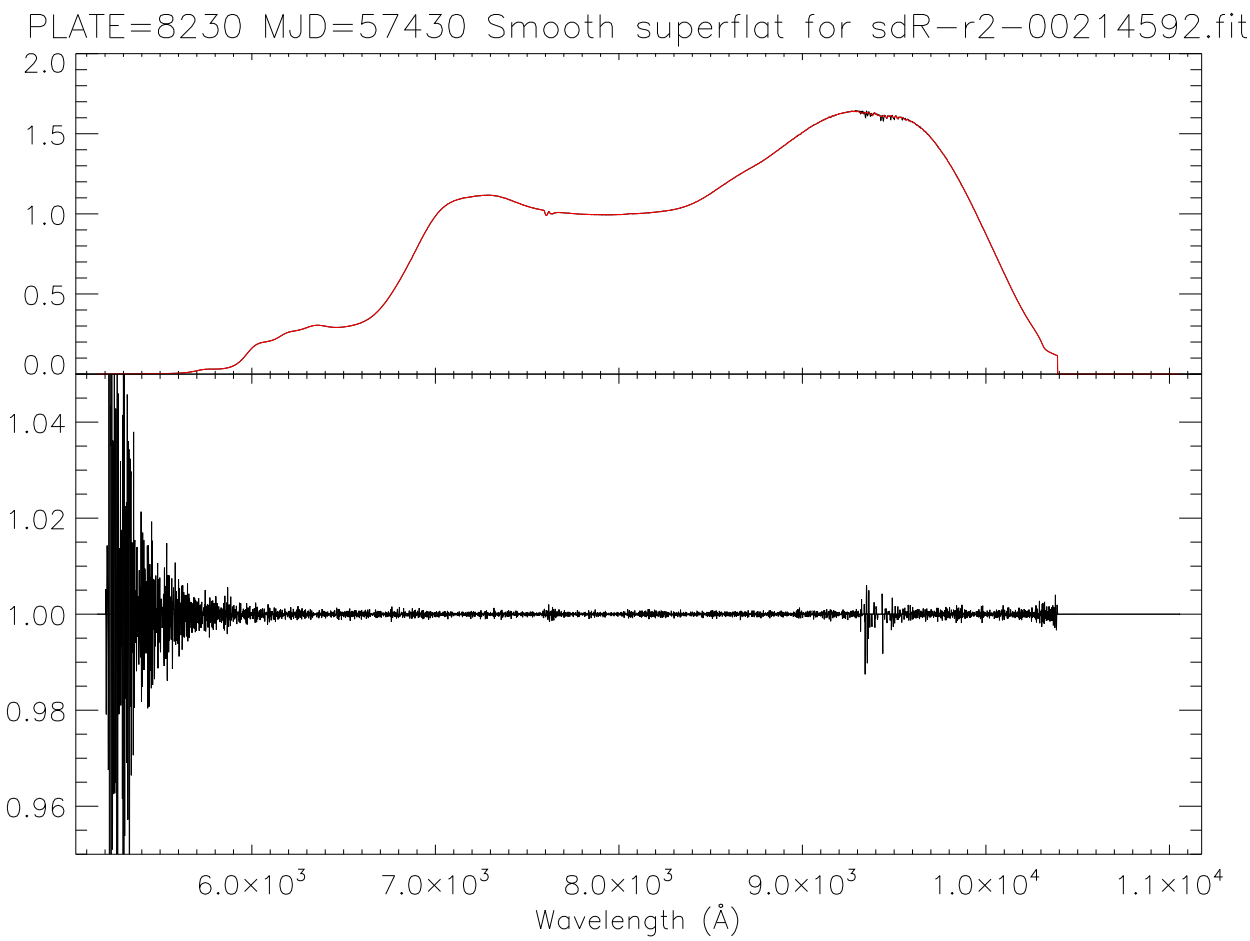

PLATE=8230 MJD=57430 sdR-r2-00214591.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.55 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

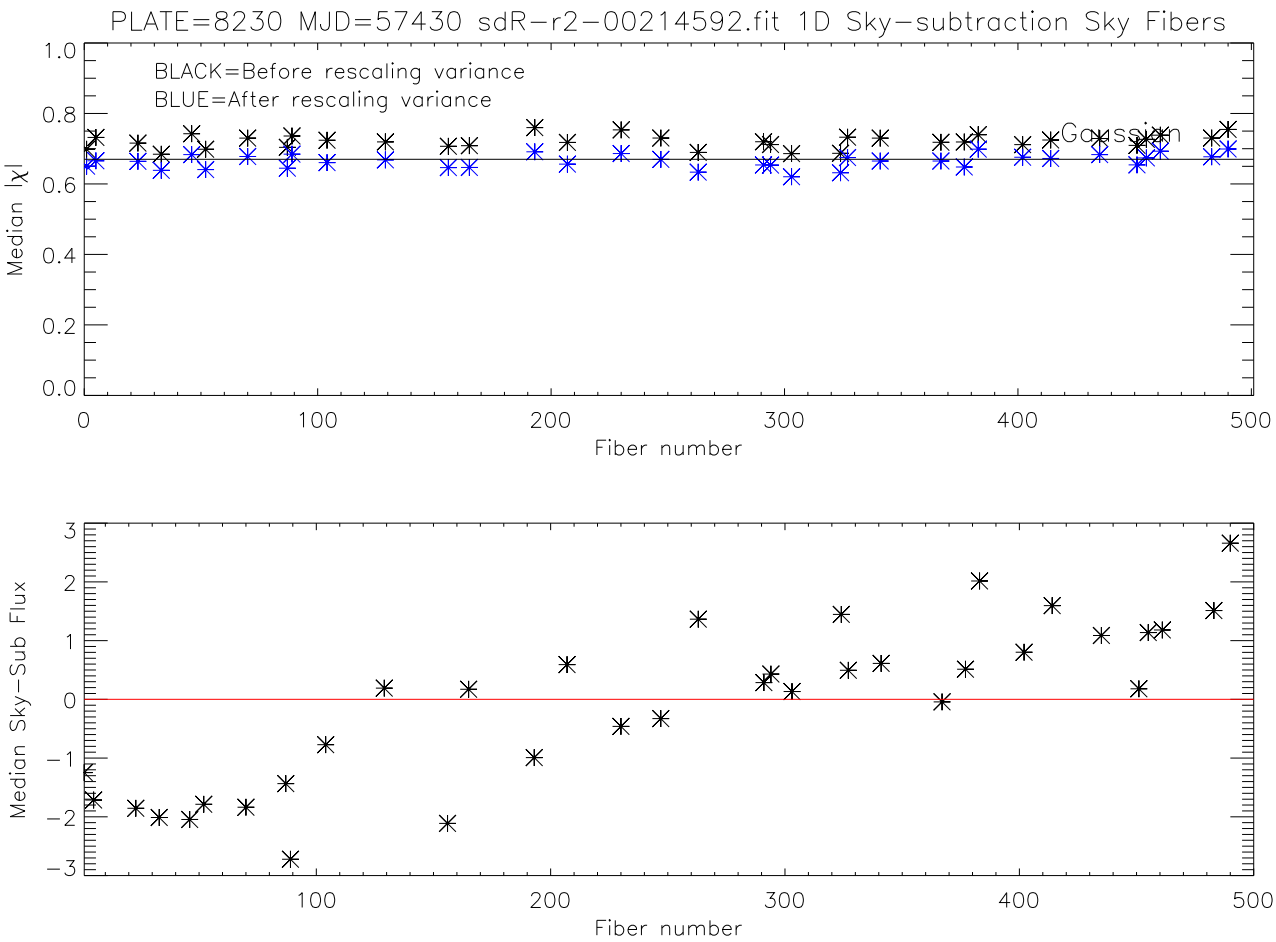

PLATE=8230 MJD=57430 sdR-r2-00214591.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.45 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

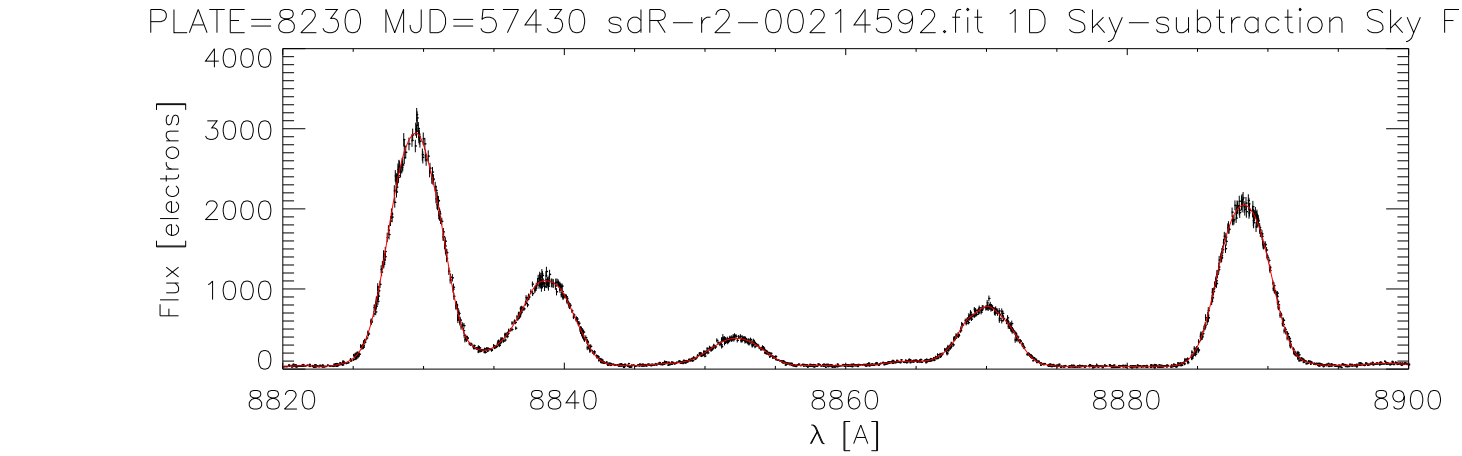

PLATE=8230 MJD=57430 Fiber−Flats for sdR−r2−00214590.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −4.981
Max value = 7.693
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Sun May 29 12:47:02 2016

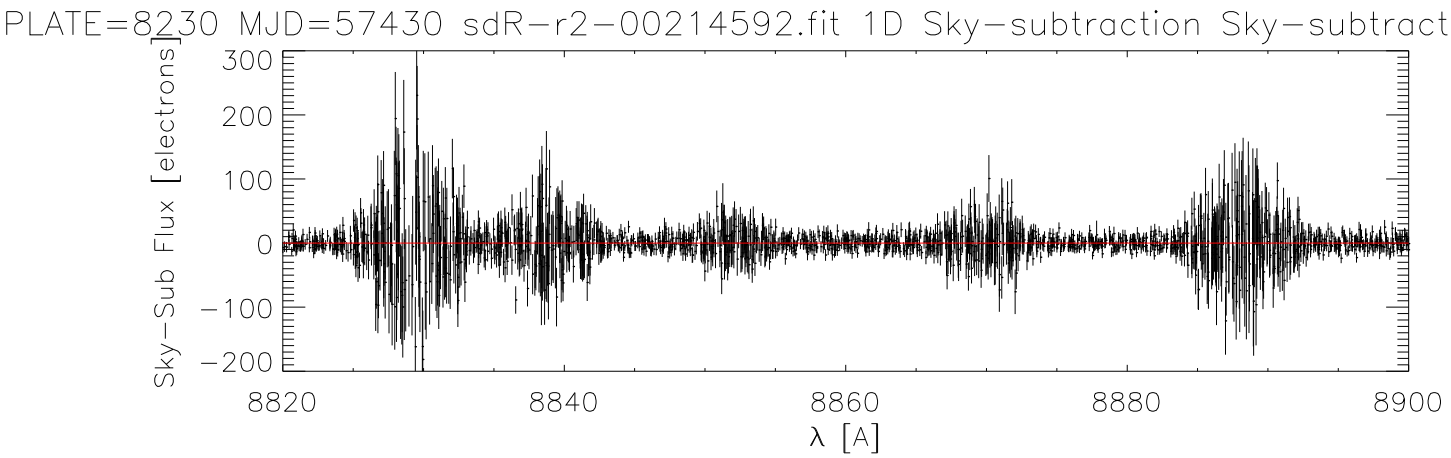

PLATE=8230 MJD=57430 Extraction chi^2 for sdR−r2−00214592.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=8230 MJD=57430 Sky Line Deviations for sdR-r2-00214592.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

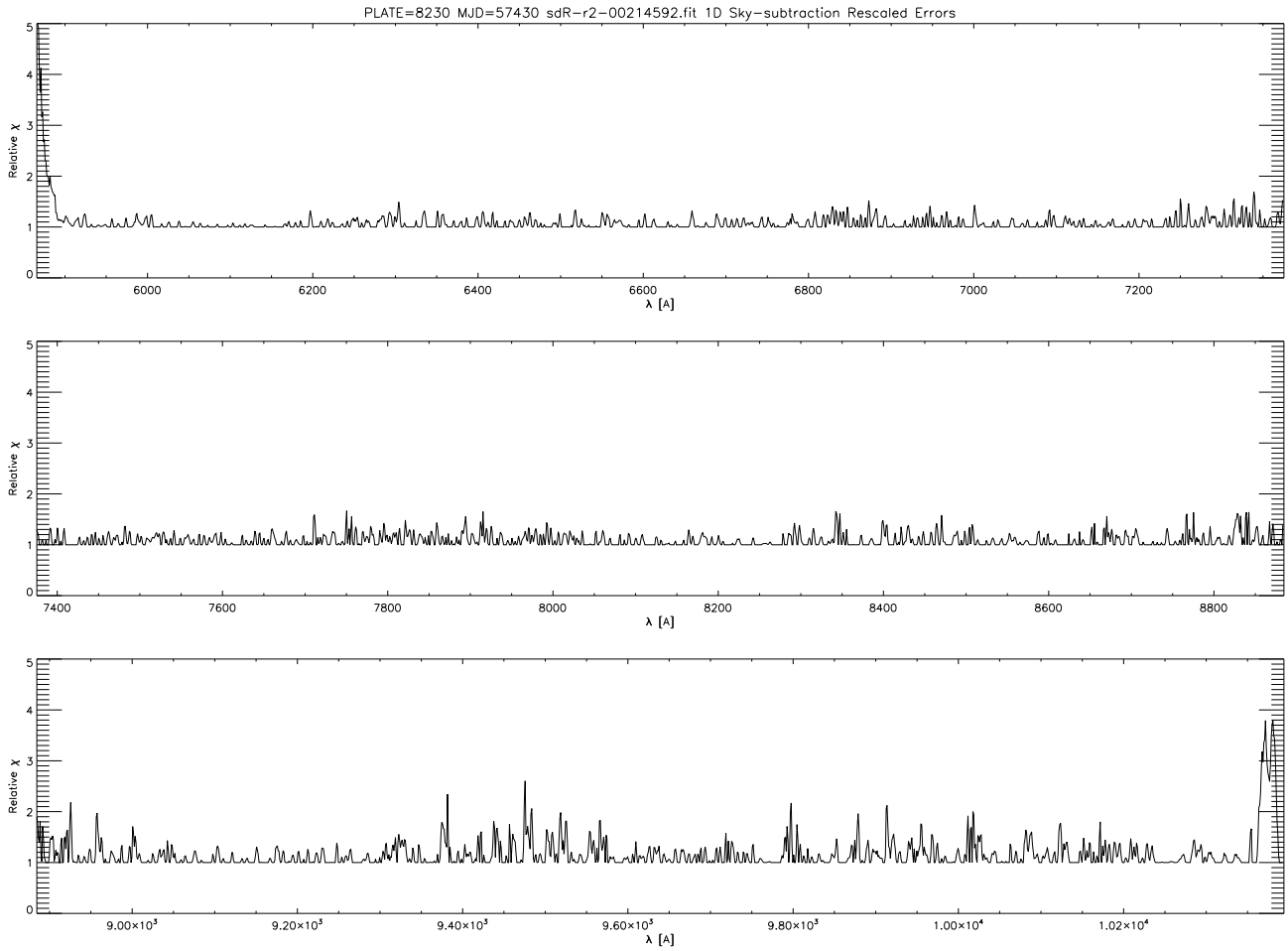

PLATE=8230 MJD=57430 Smooth superflat for sdR-r2-00214592.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

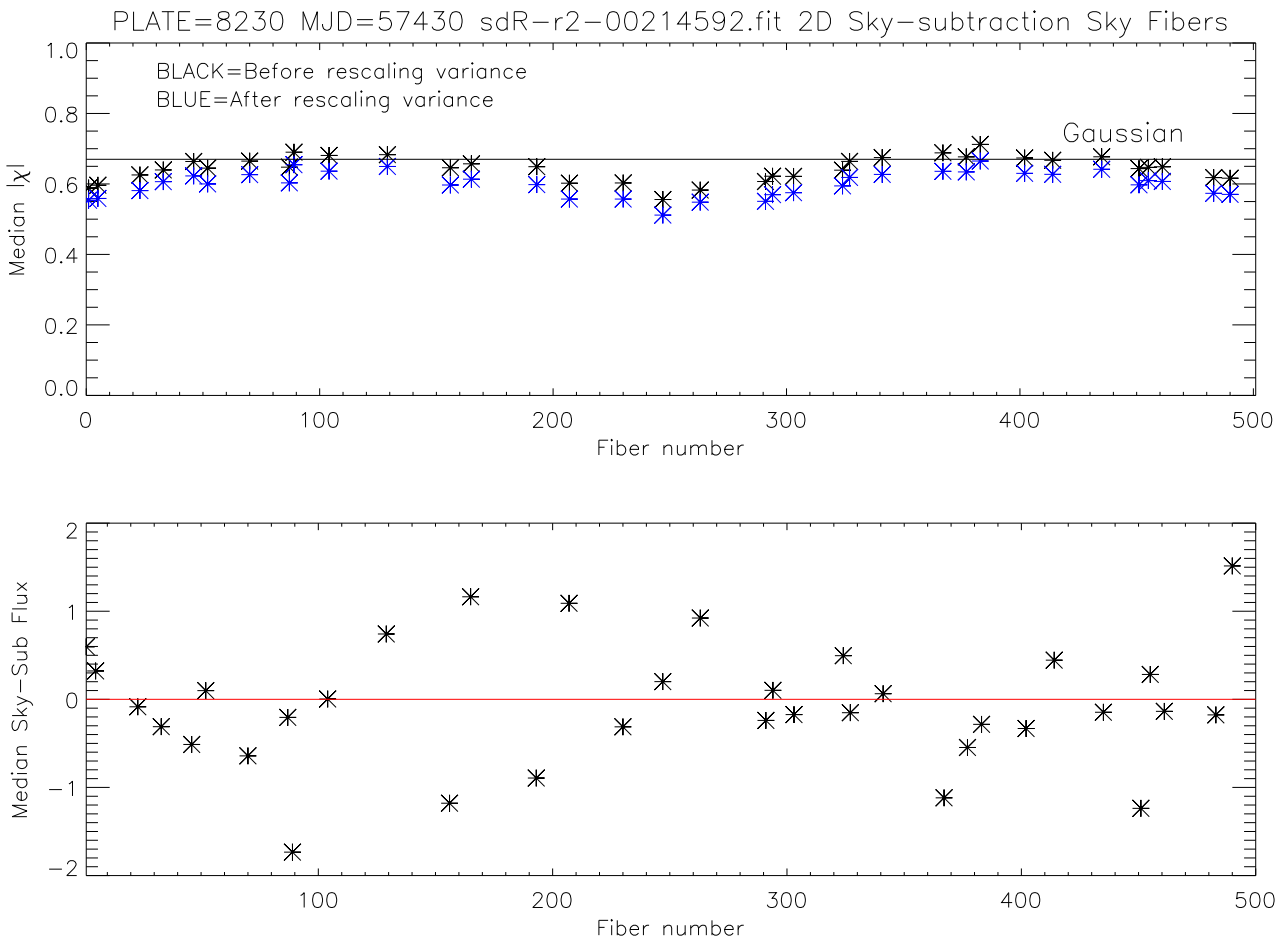

PLATE=8230 MJD=57430 sdR-r2-00214592.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

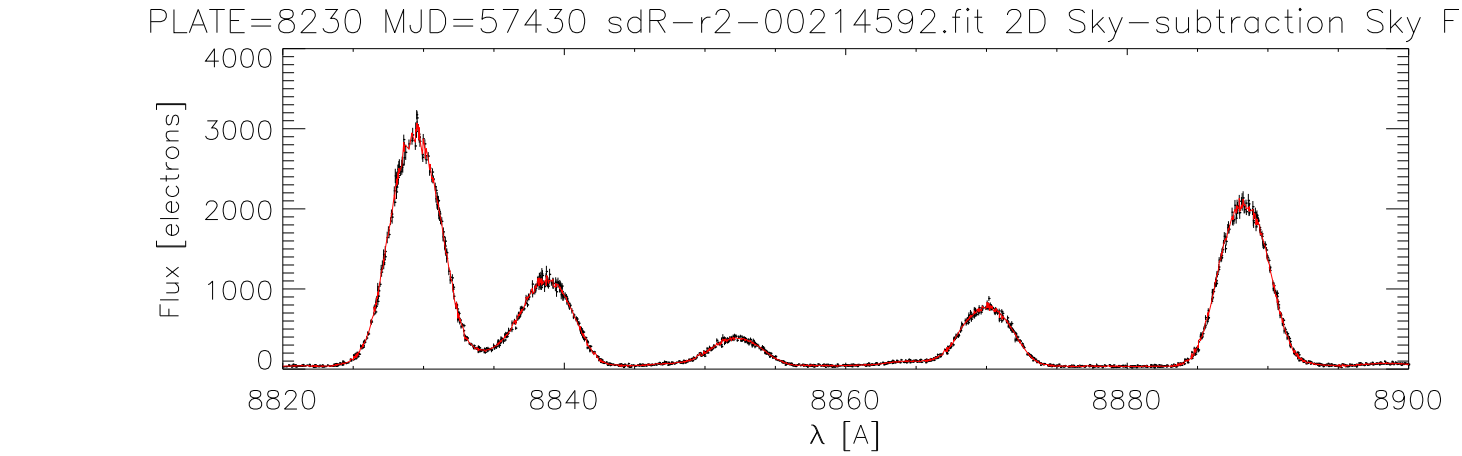

PLATE=8230 MJD=57430 sdR-r2-00214592.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

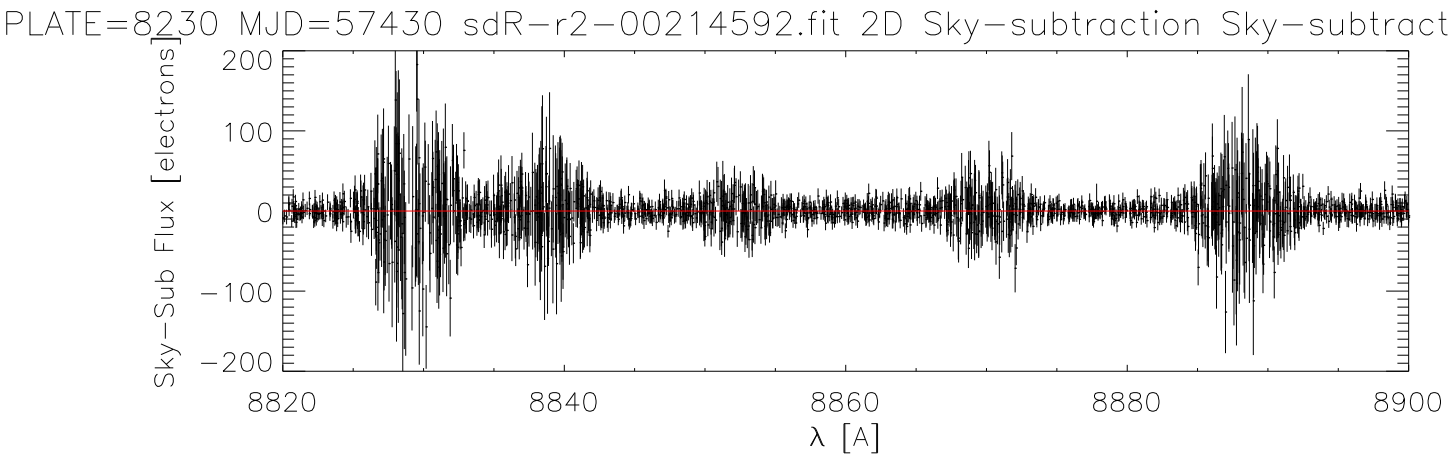

PLATE=8230 MJD=57430 sdR-r2-00214592.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 35

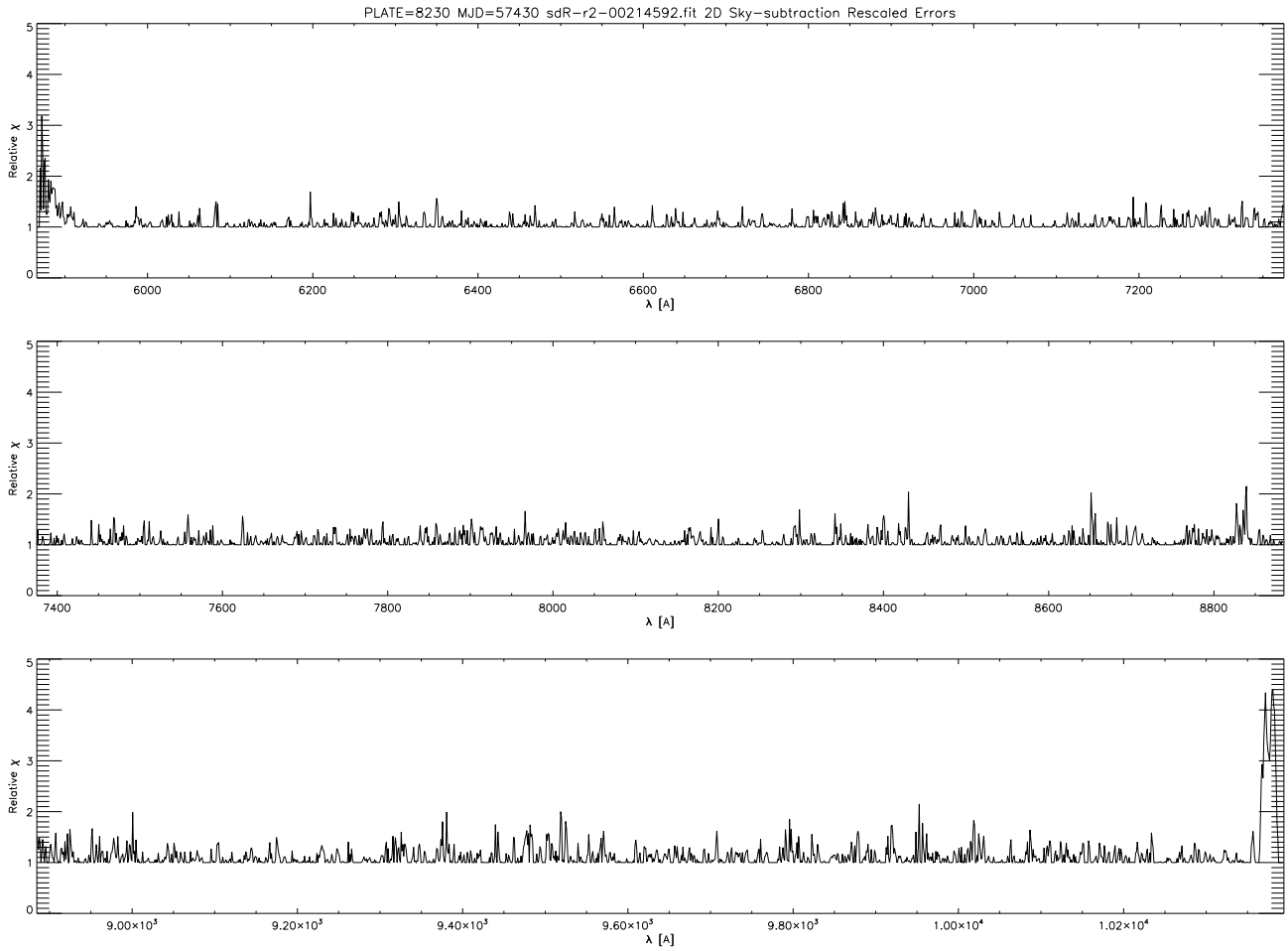


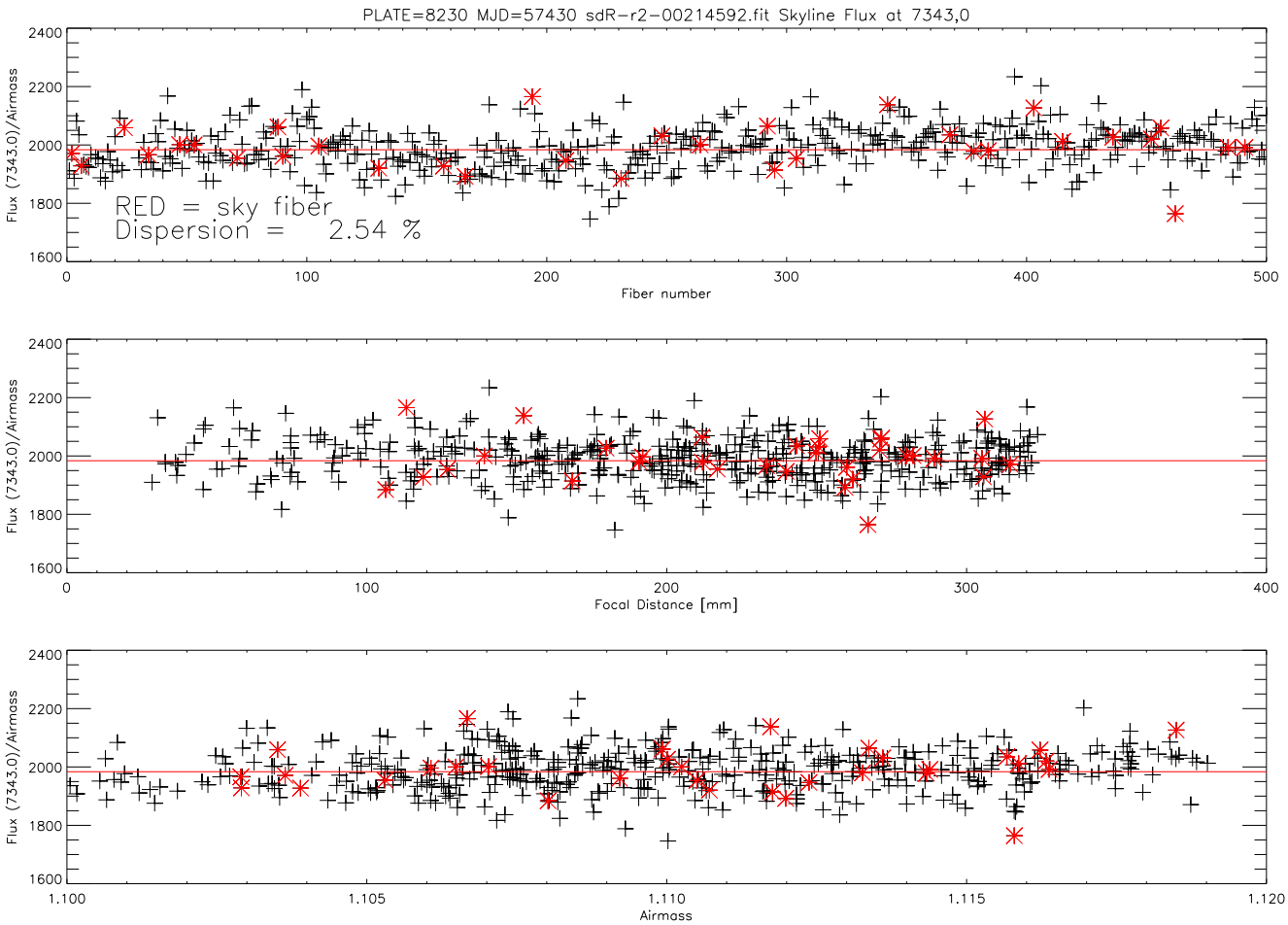

PLATE=8230 MJD=57430 sdR-r2-00214592.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

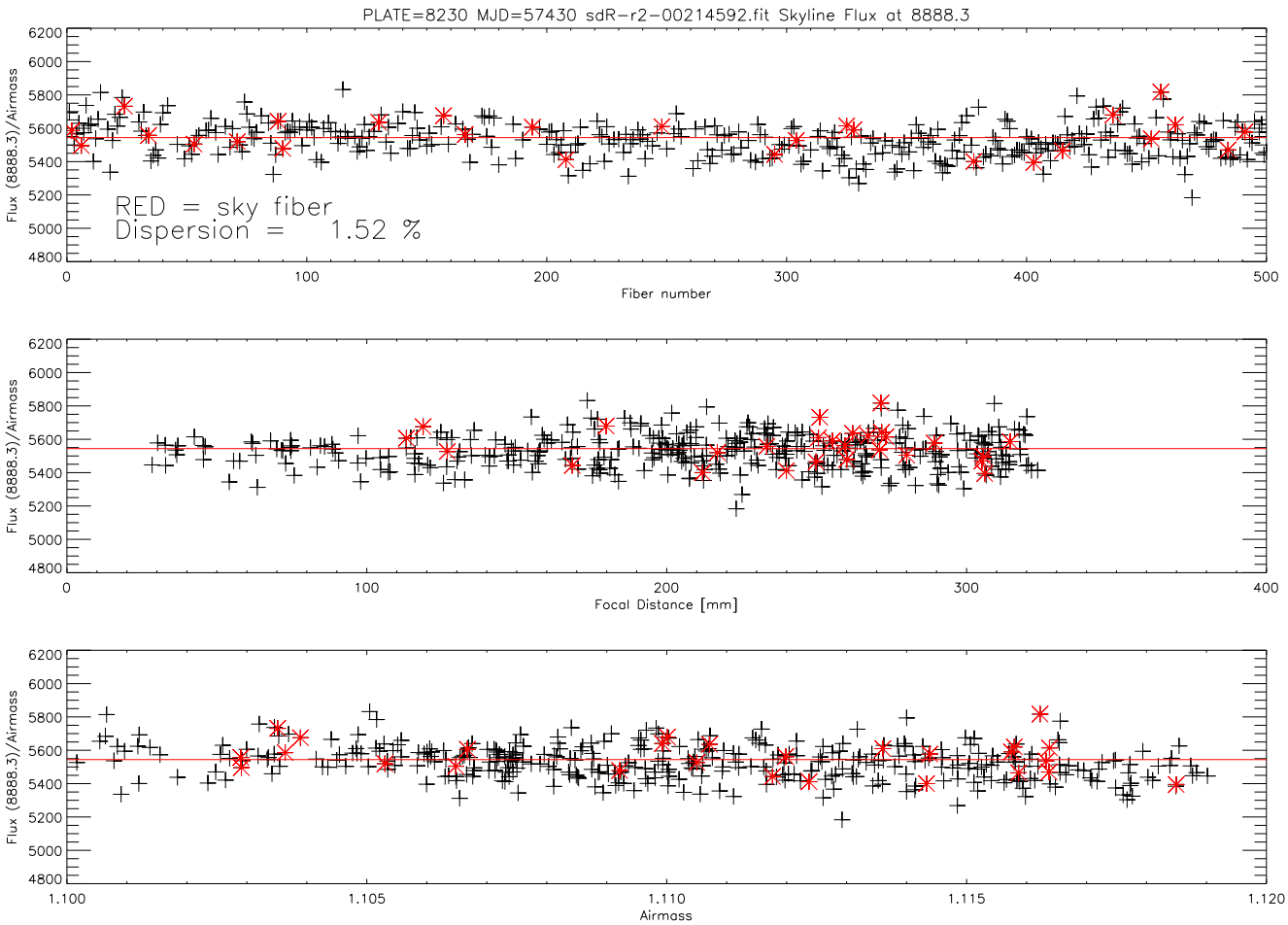

PLATE=8230 MJD=57430 sdR-r2-00214592.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

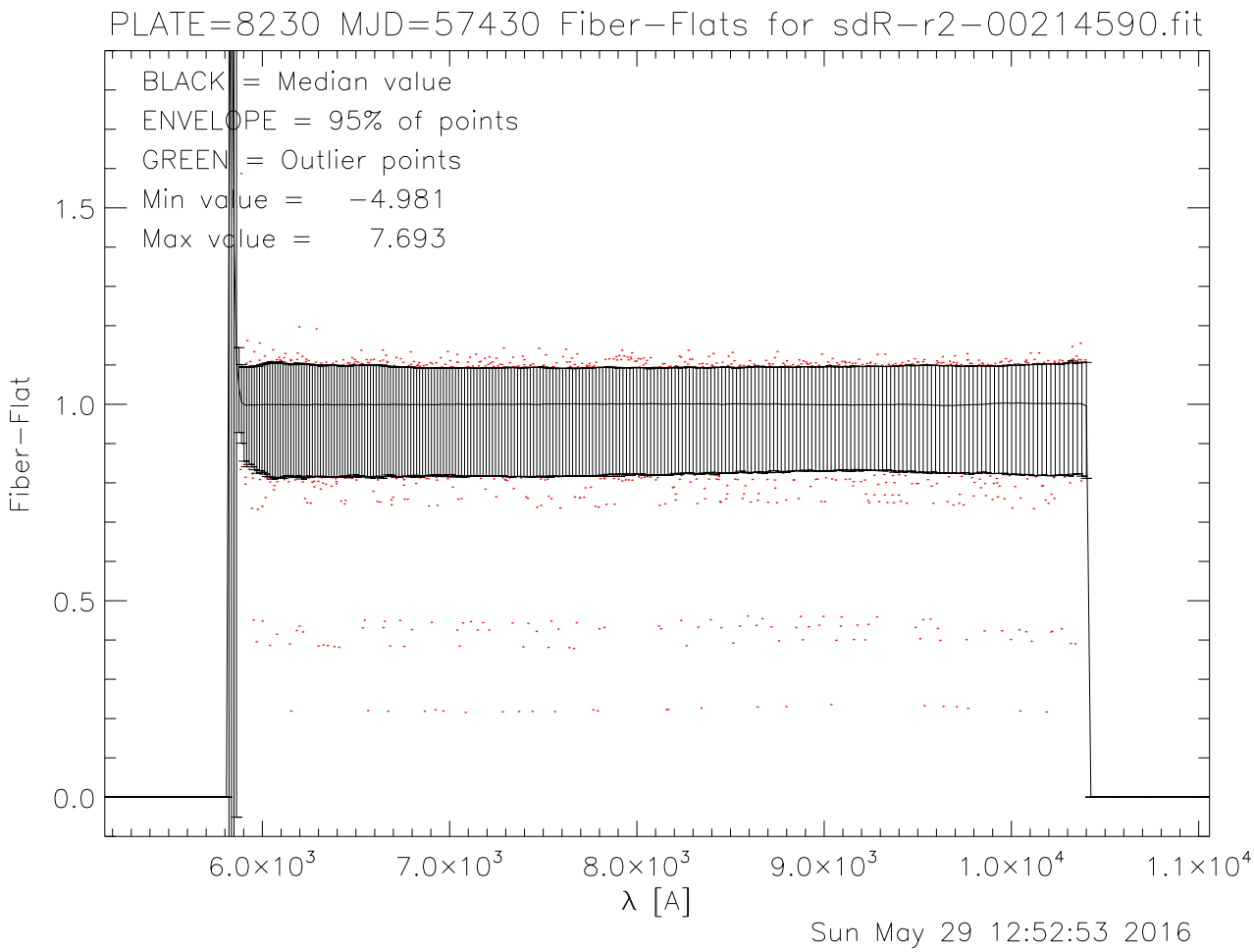

PLATE=8230 MJD=57430 sdR-r2-00214592.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

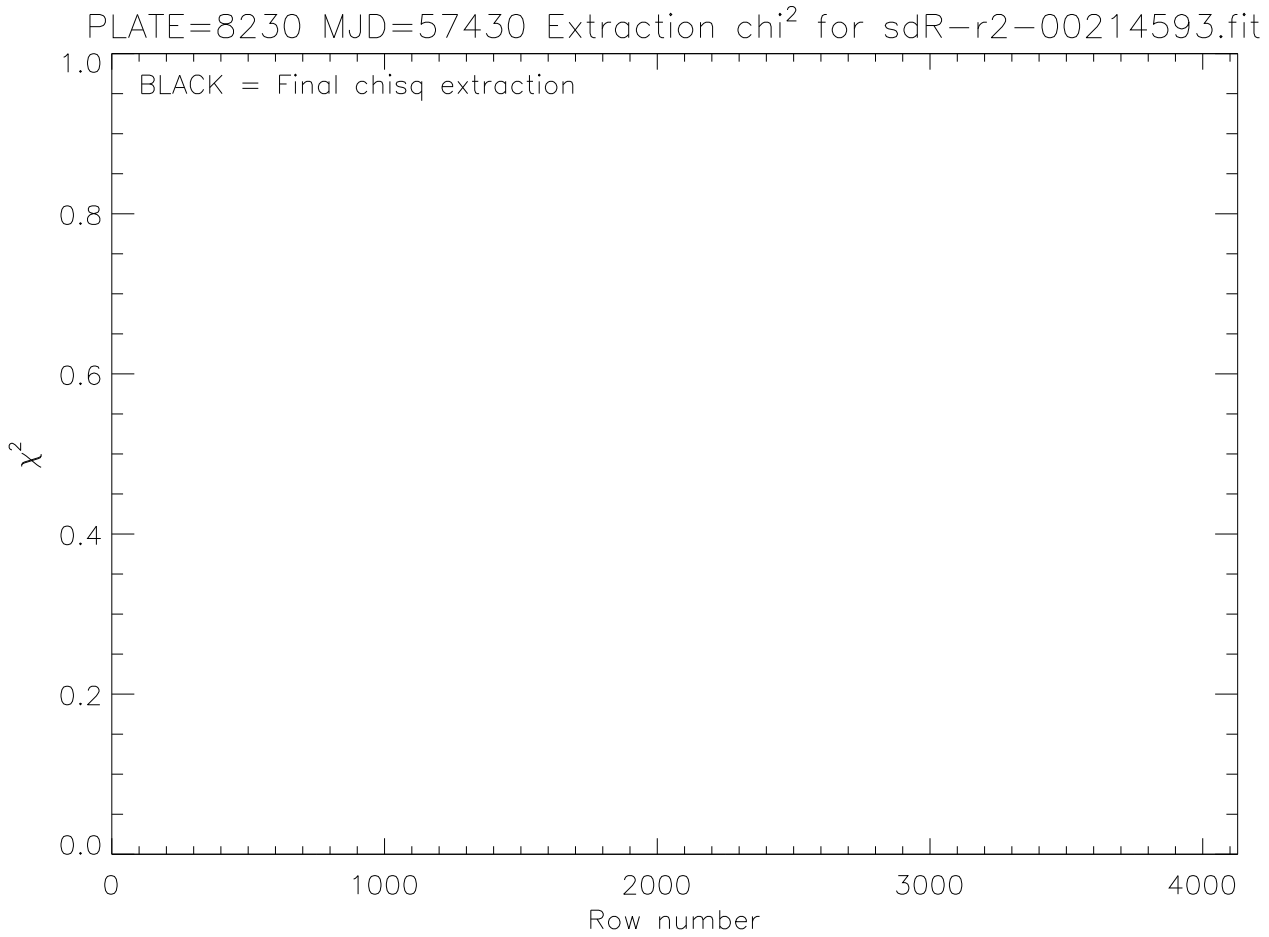
Number of sky fibers = 35

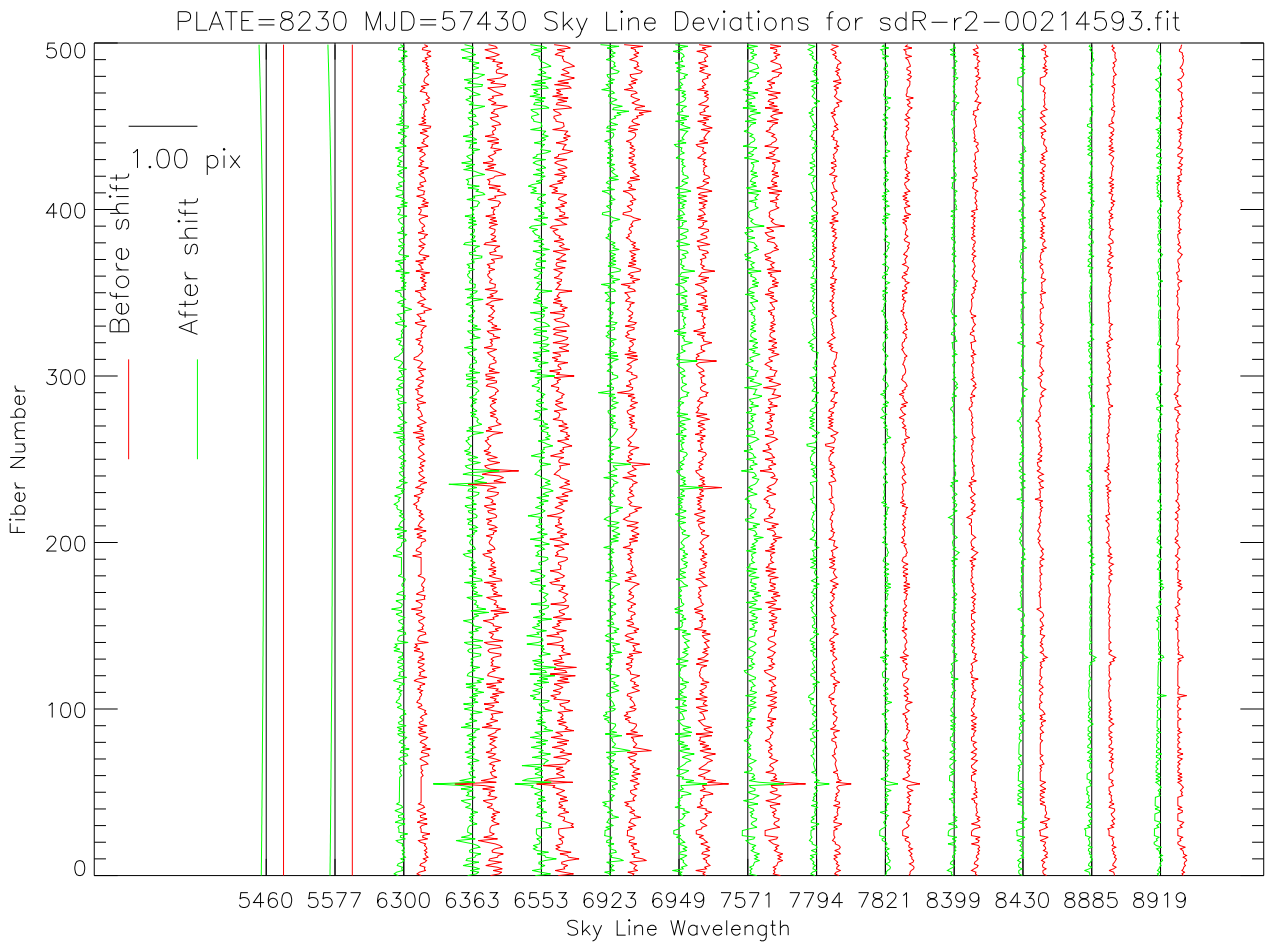


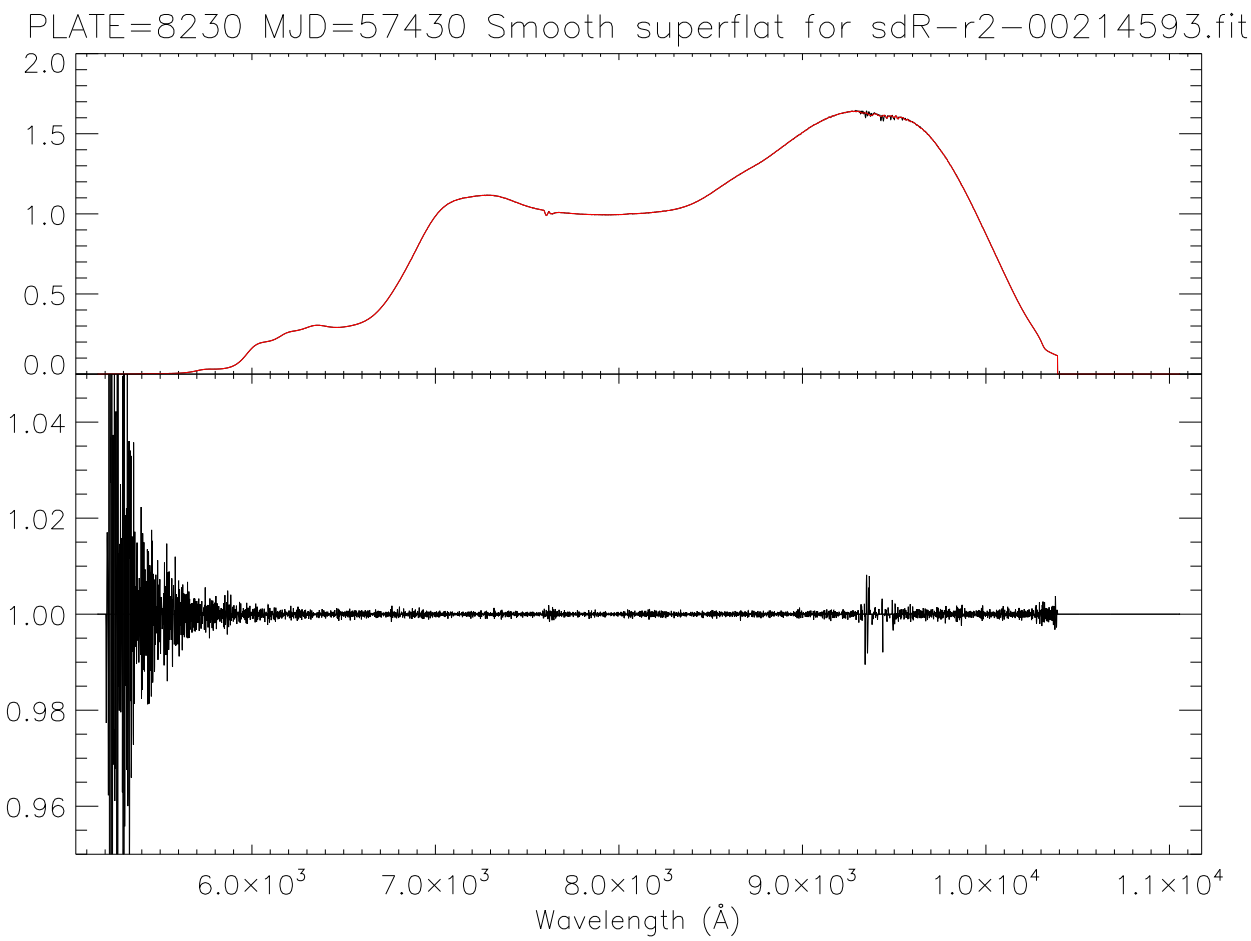

PLATE=8230 MJD=57430 sdR-r2-00214592.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.54 %
Fiber number
Focal Distance [mm]
Airmass

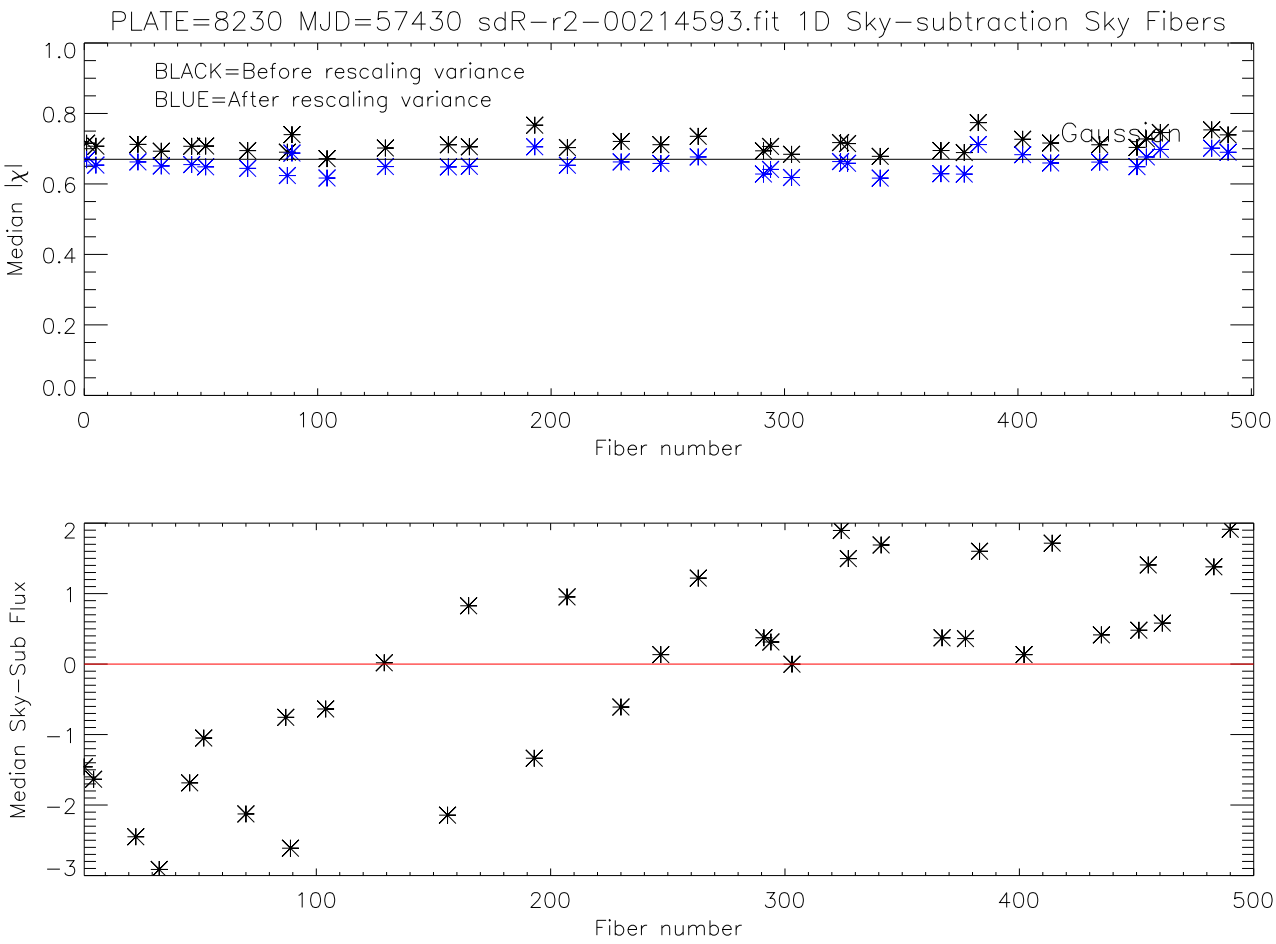

PLATE=8230 MJD=57430 sdR-r2-00214592.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.52 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

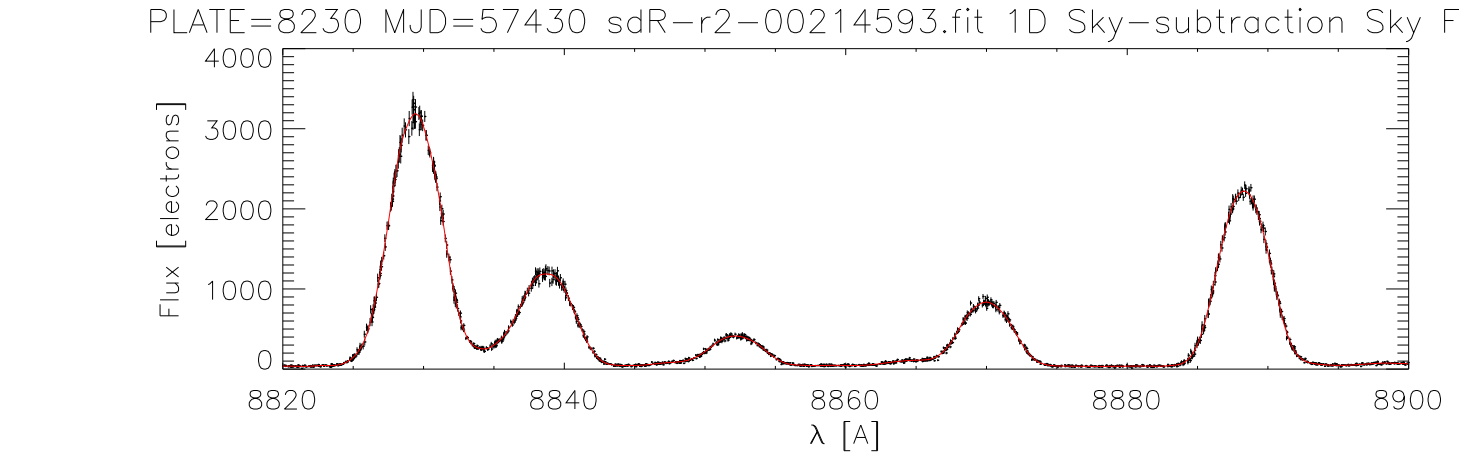

PLATE=8230 MJD=57430 Fiber−Flats for sdR−r2−00214590.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −4.981
Max value = 7.693
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Sun May 29 12:52:53 2016

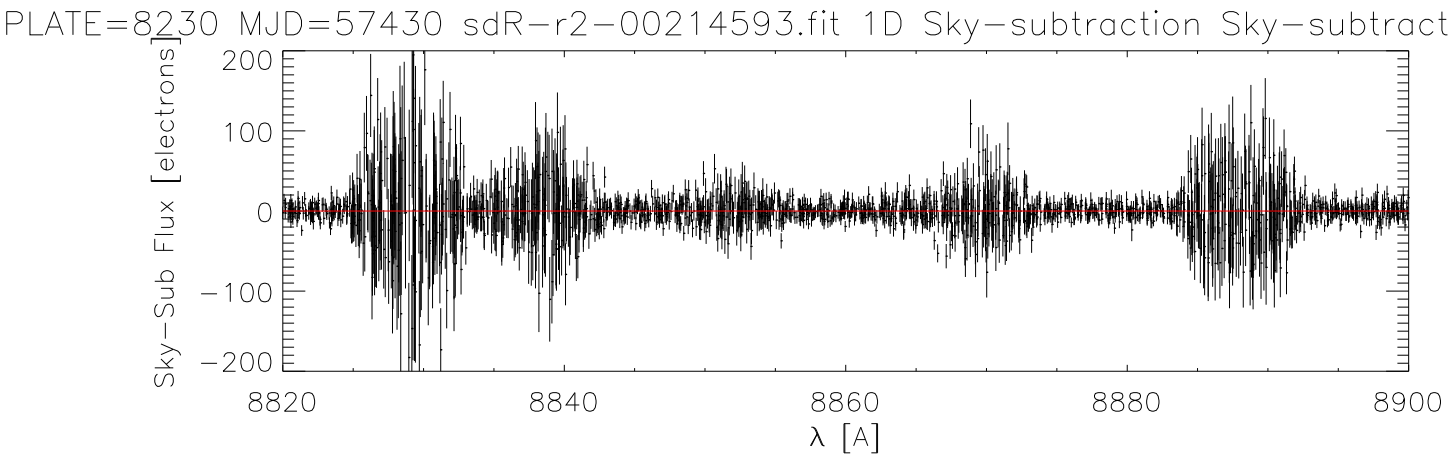

PLATE=8230 MJD=57430 Extraction chi^2 for sdR−r2−00214593.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=8230 MJD=57430 Sky Line Deviations for sdR-r2-00214593.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

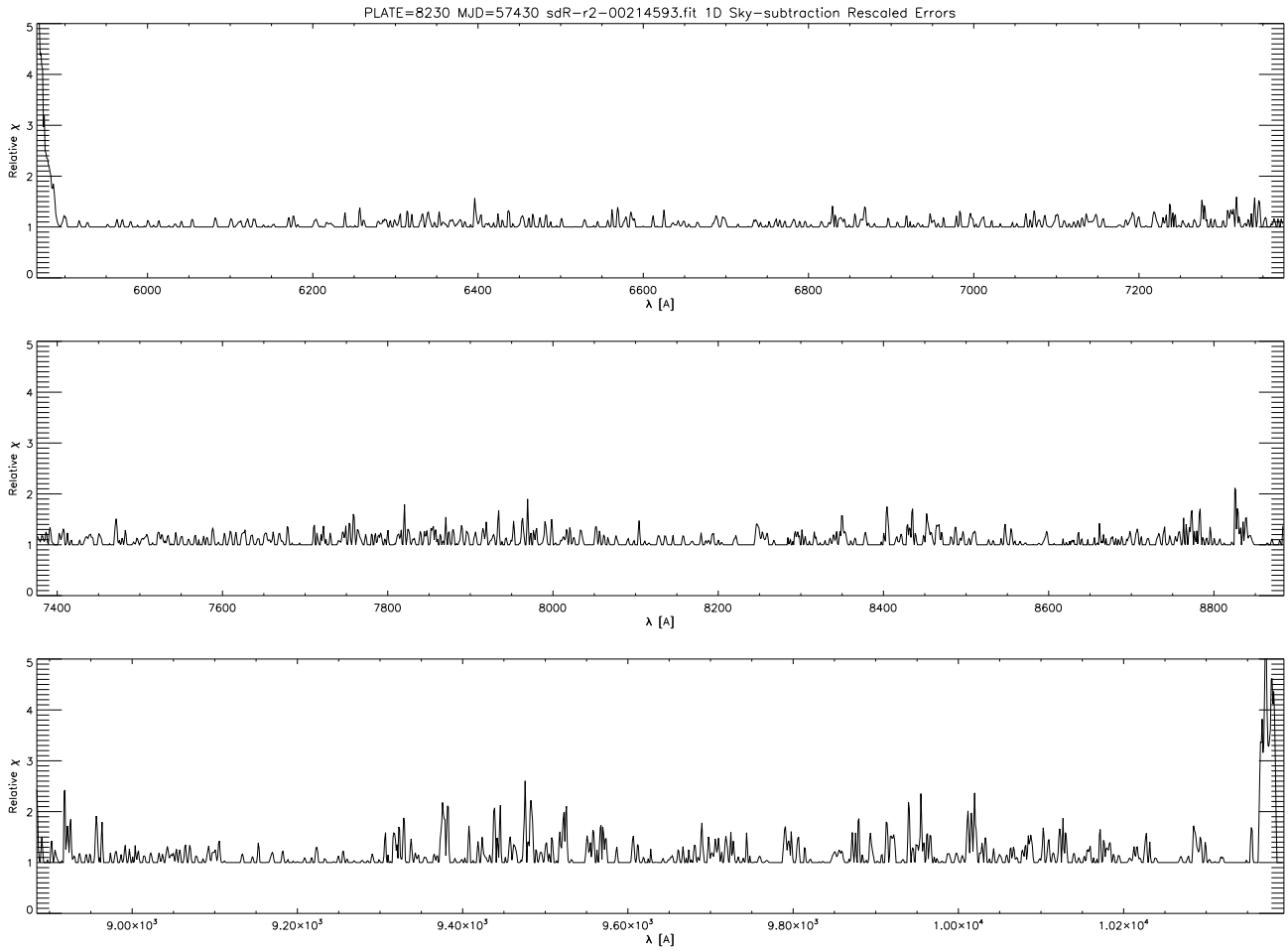

PLATE=8230 MJD=57430 Smooth superflat for sdR-r2-00214593.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

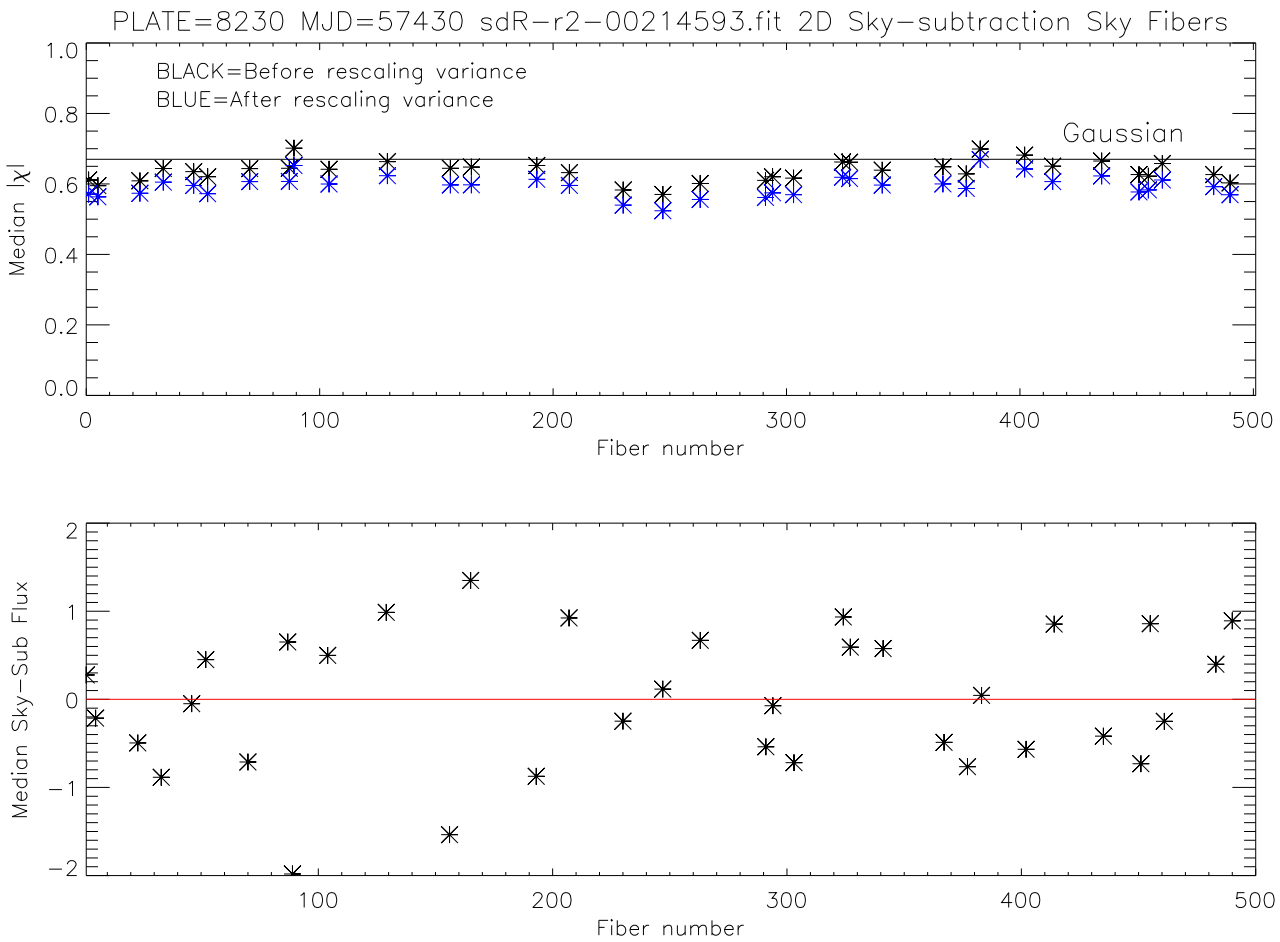

PLATE=8230 MJD=57430 sdR-r2-00214593.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

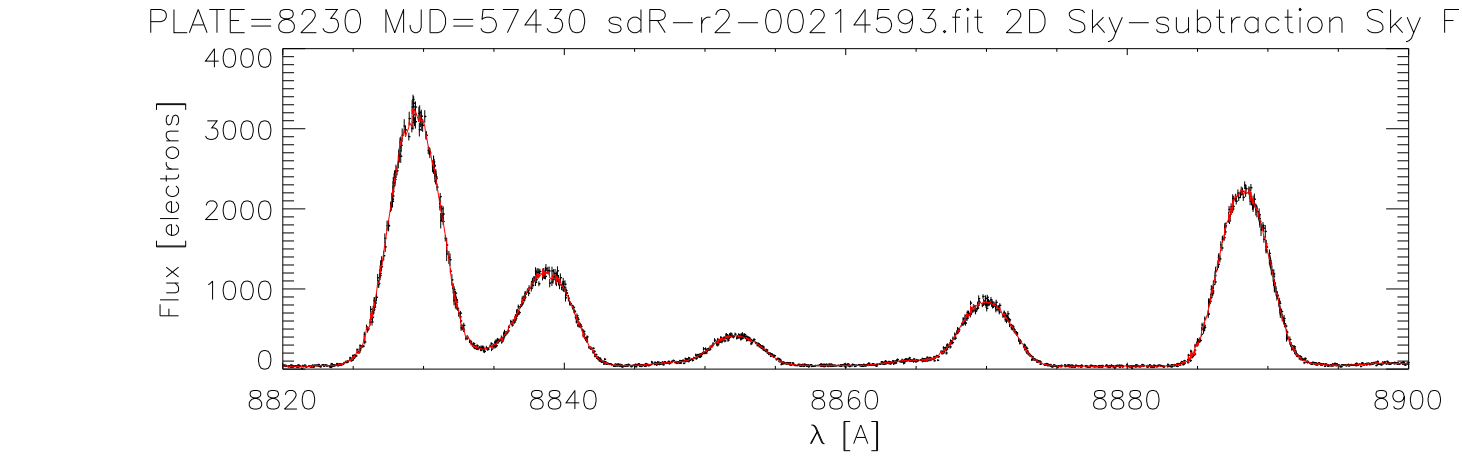

PLATE=8230 MJD=57430 sdR-r2-00214593.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

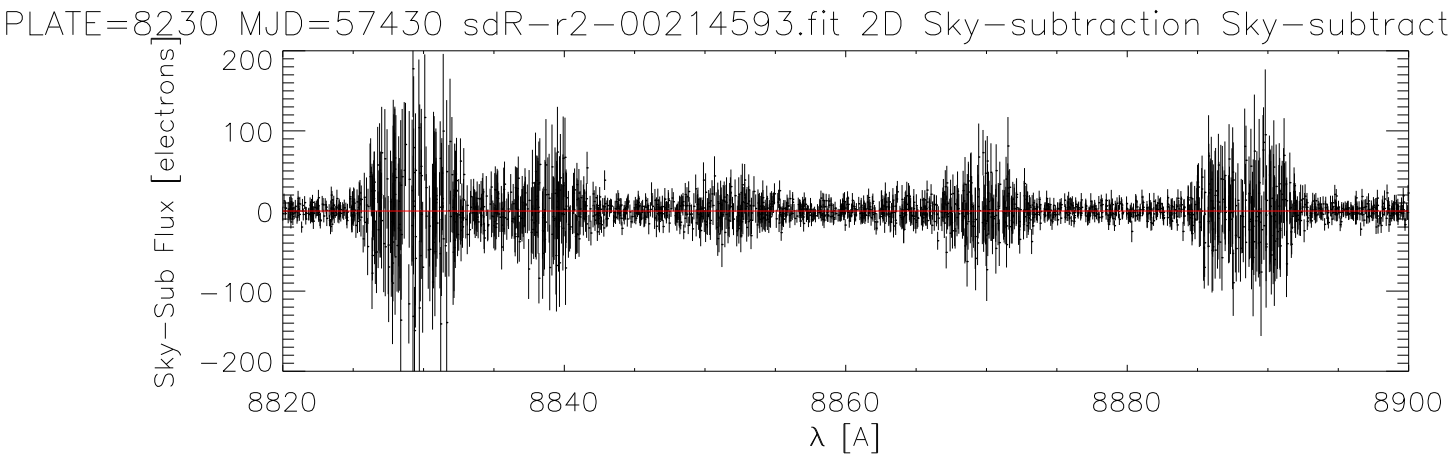

PLATE=8230 MJD=57430 sdR-r2-00214593.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 35

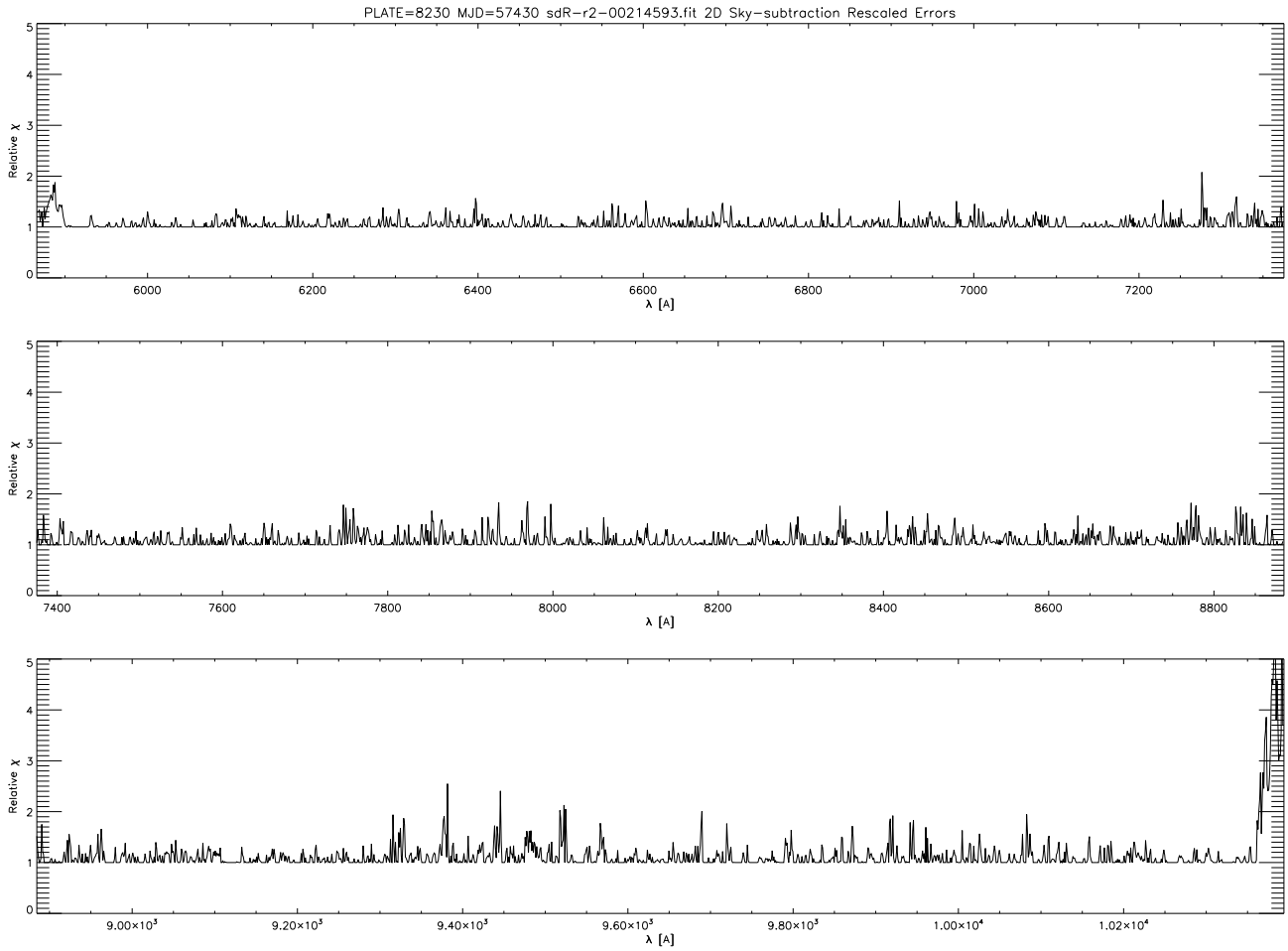


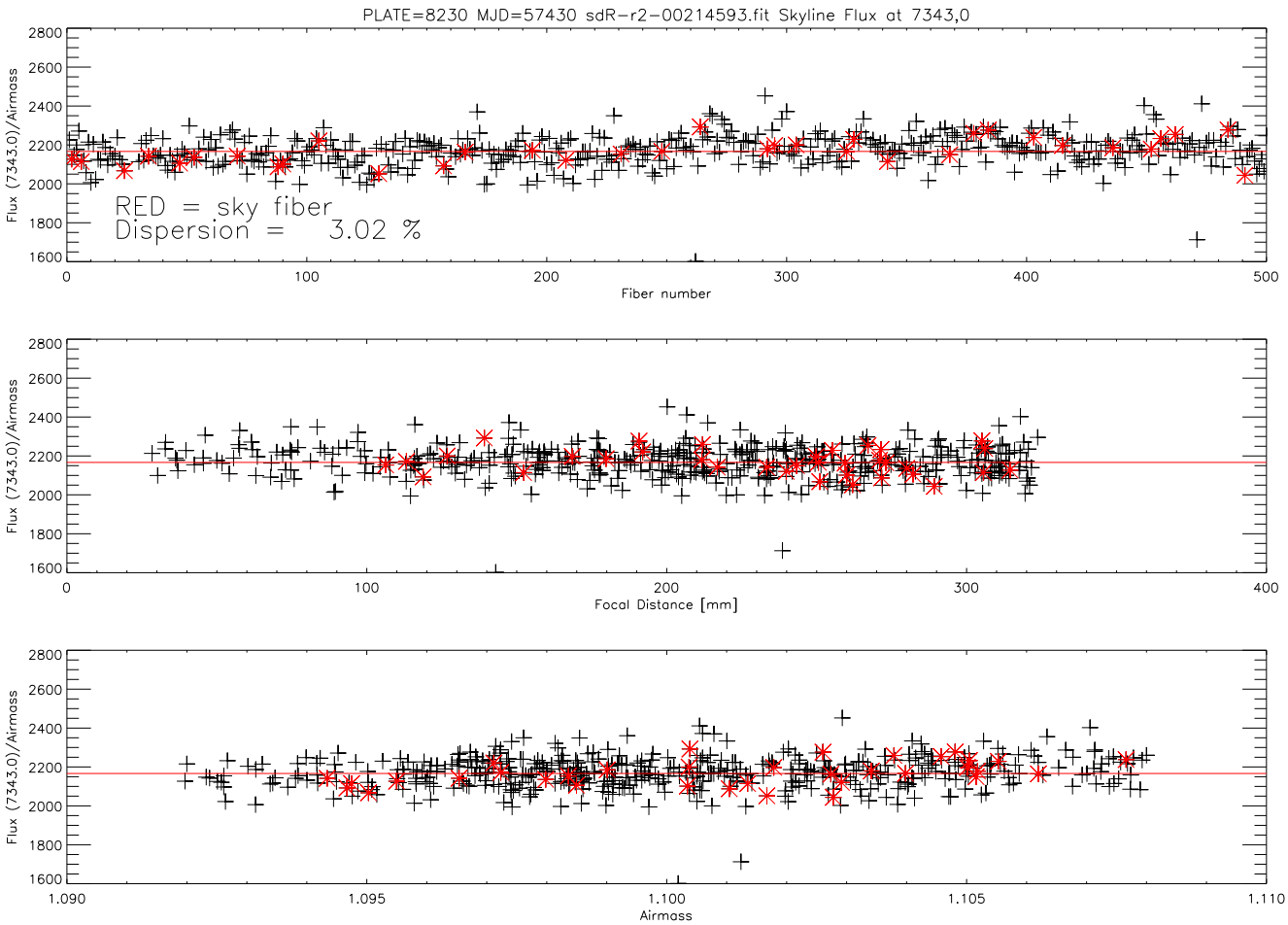

PLATE=8230 MJD=57430 sdR-r2-00214593.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

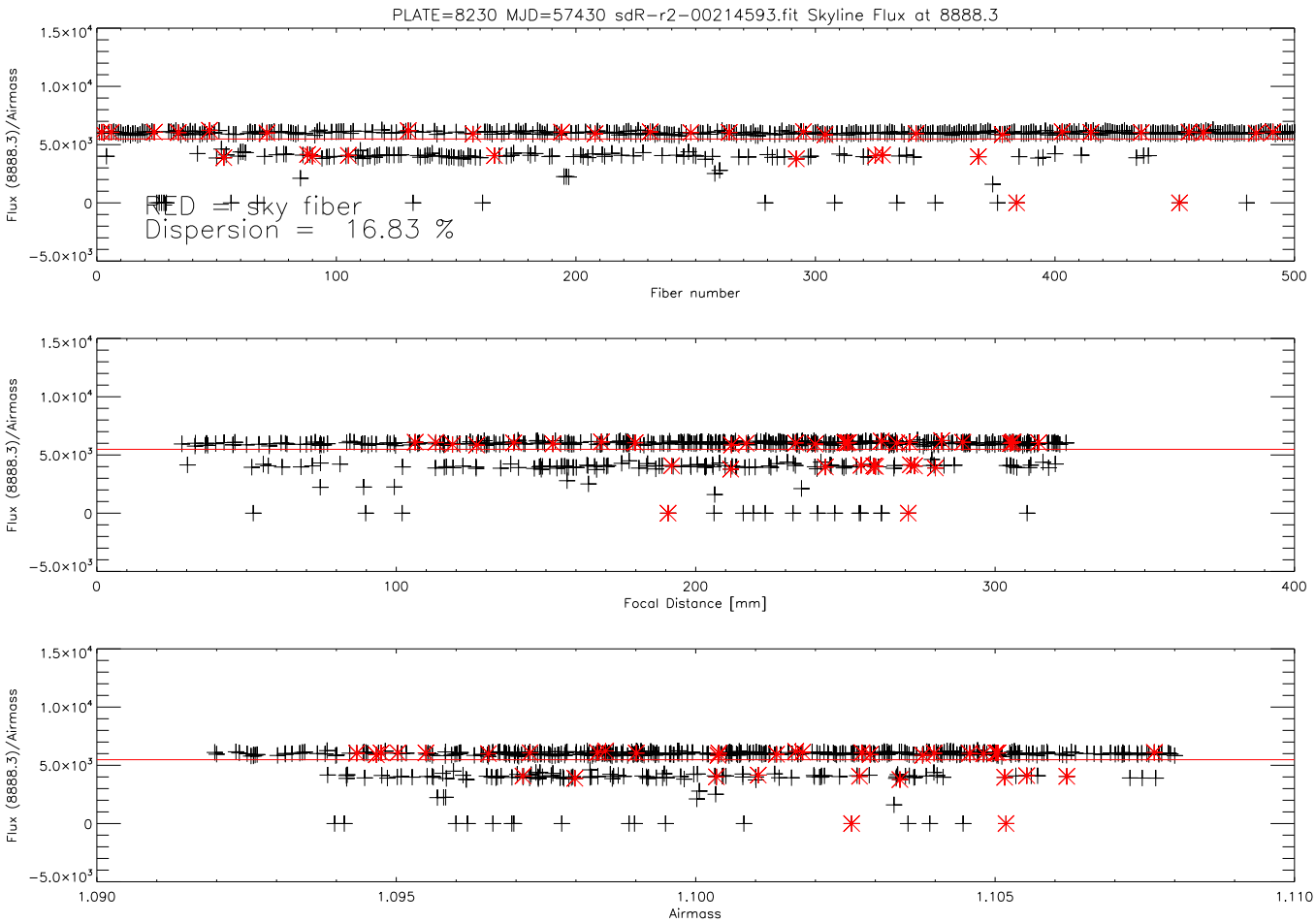

PLATE=8230 MJD=57430 sdR-r2-00214593.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

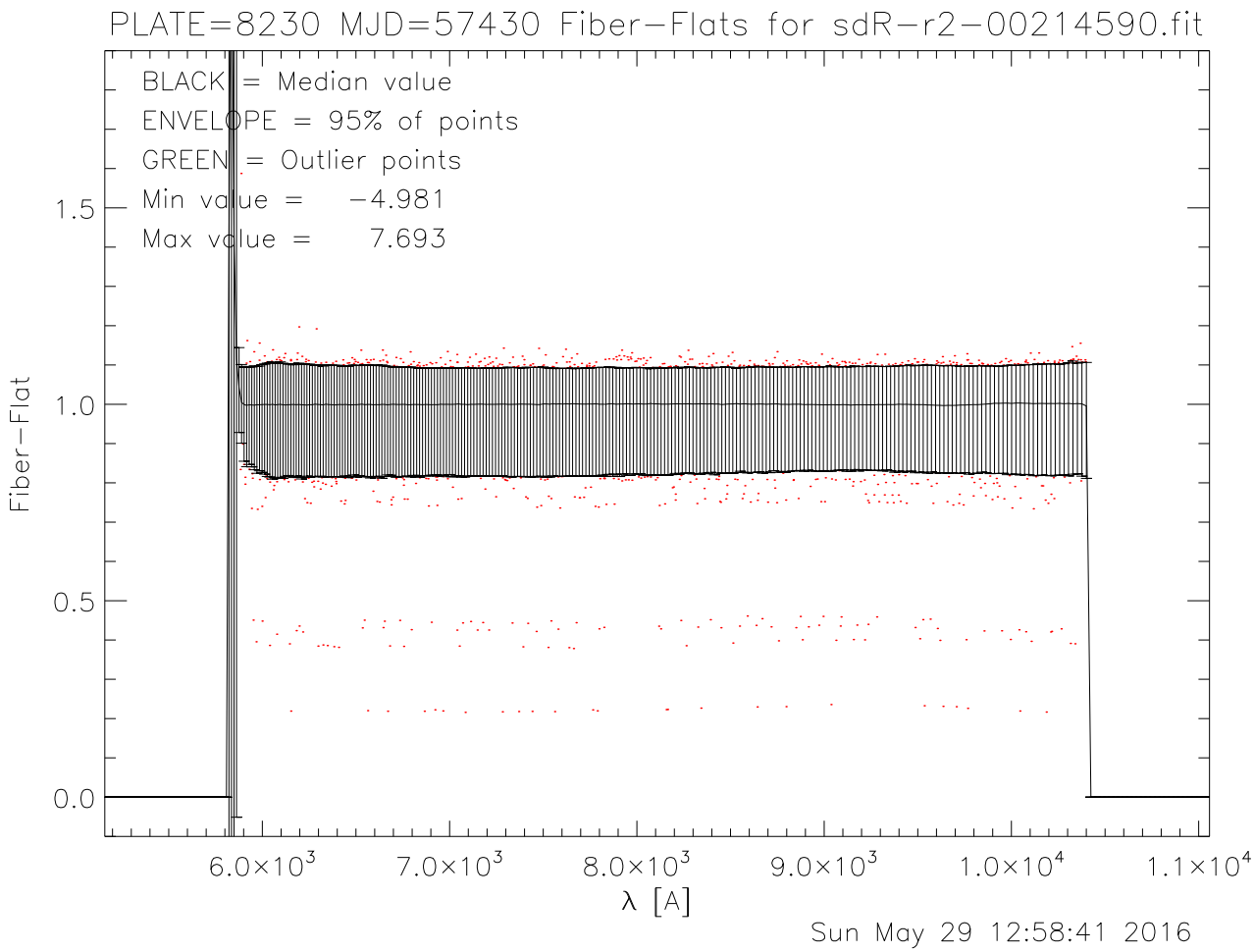

PLATE=8230 MJD=57430 sdR-r2-00214593.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

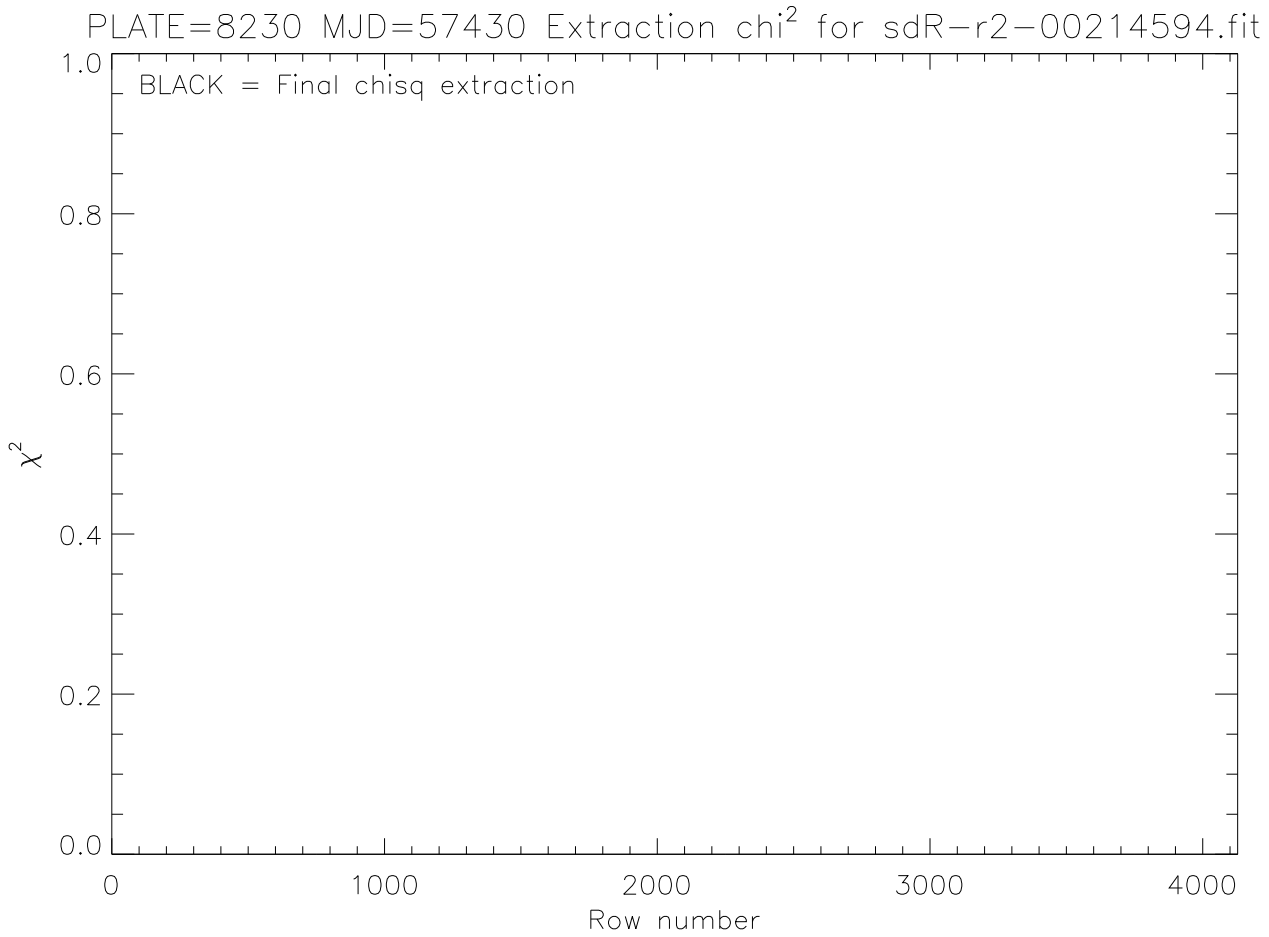
Number of sky fibers = 35

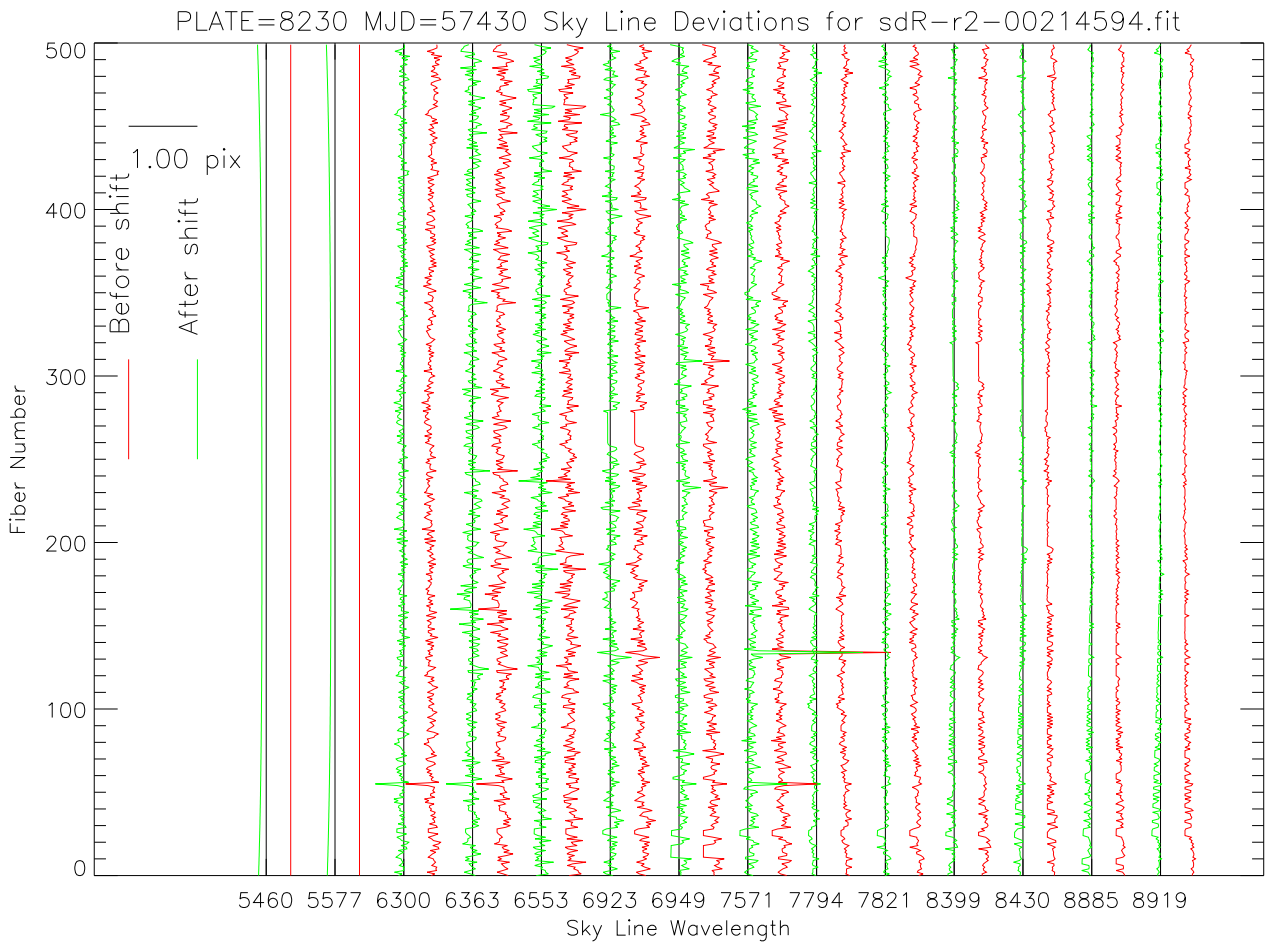


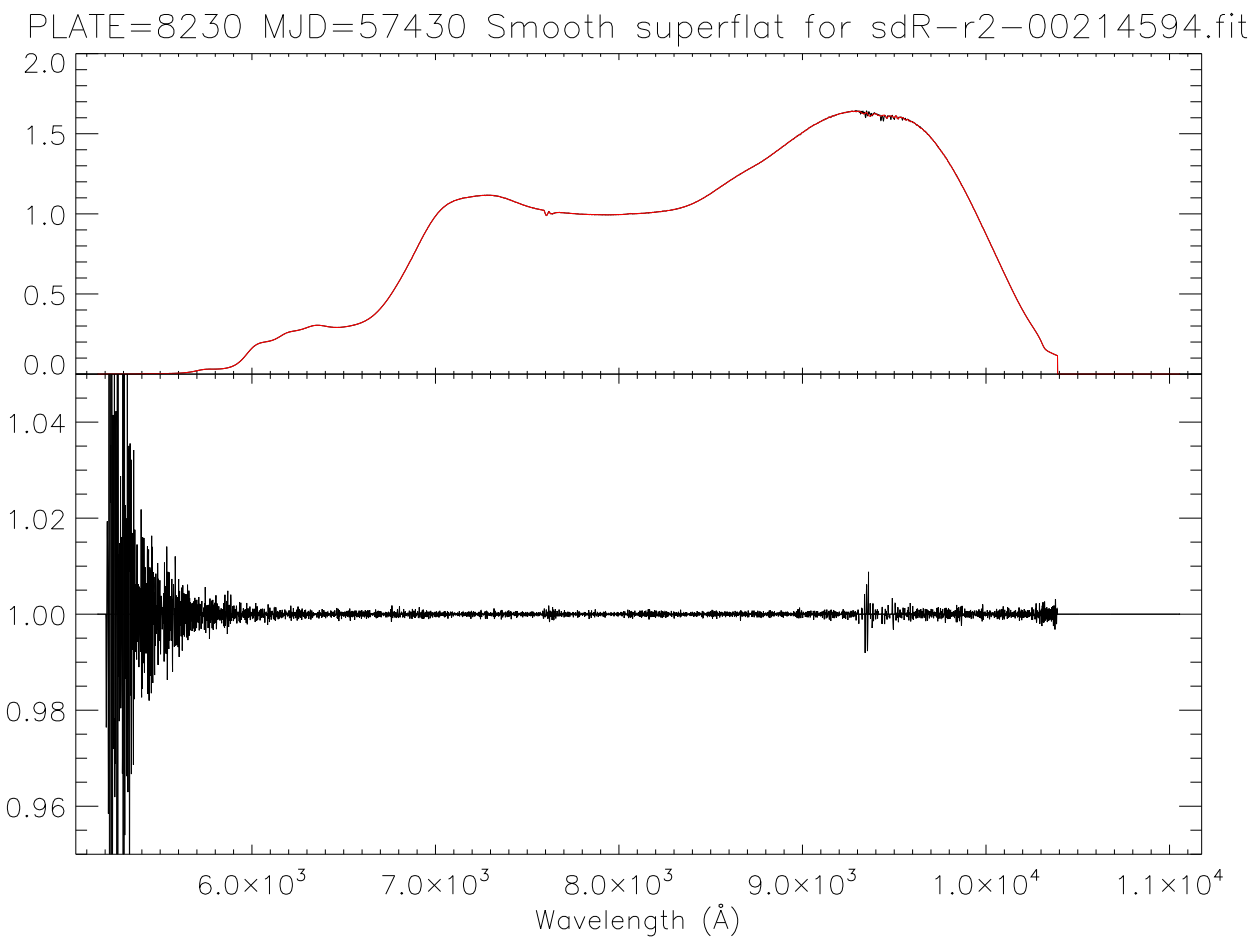

PLATE=8230 MJD=57430 sdR-r2-00214593.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.02 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

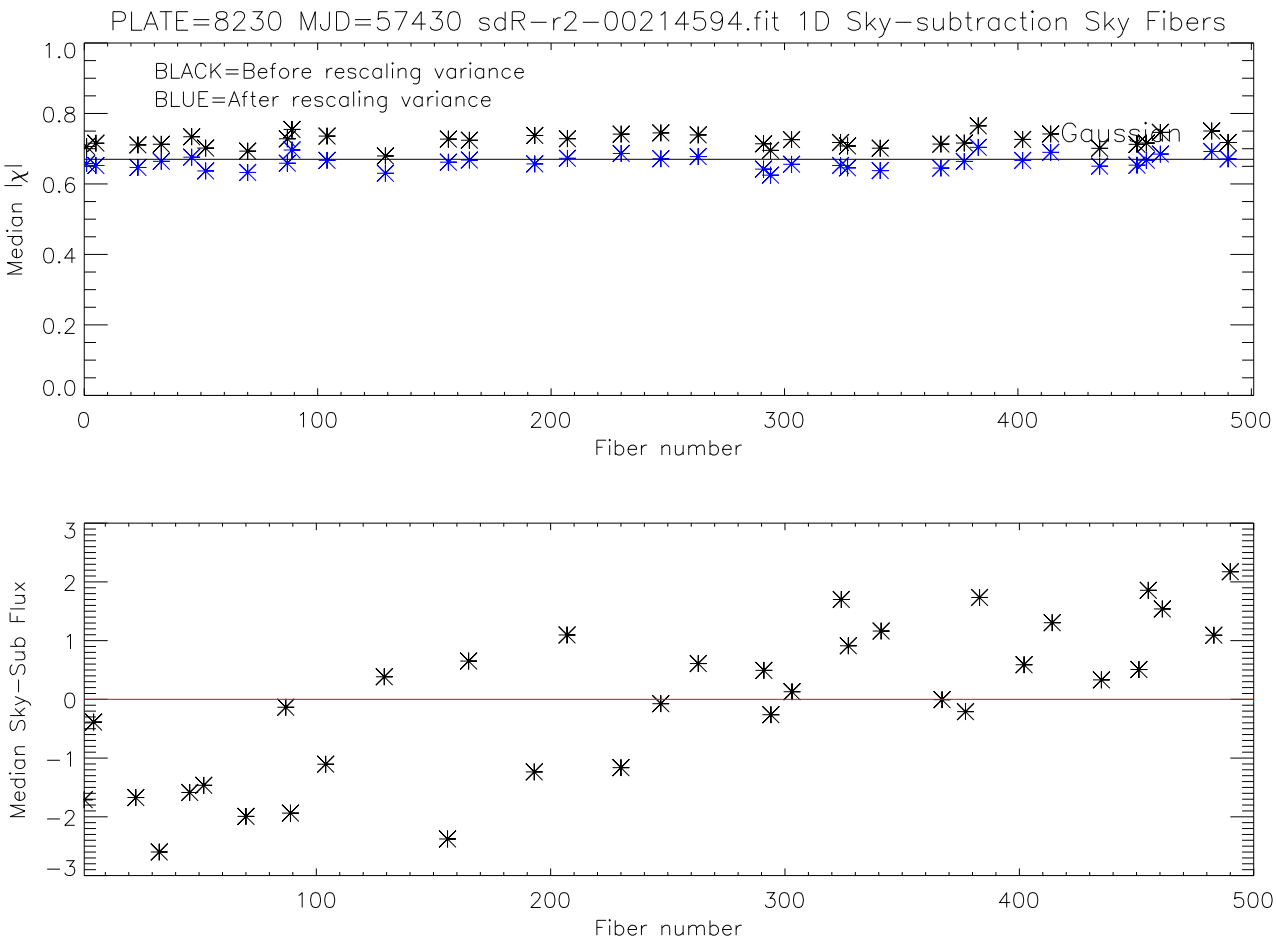

PLATE=8230 MJD=57430 sdR-r2-00214593.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
1.5×10⁴
1.0×10⁴
5.0×10³
0
−5.0×10³
RED = sky fiber
Dispersion = 16.83 %
0
100
200
300
400
500
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
1.090
1.095
1.100
1.105
1.110
Airmass


PLATE=8230 MJD=57430 Fiber−Flats for sdR−r2−00214590.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −4.981
Max value = 7.693
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]
Sun May 29 12:58:41 2016

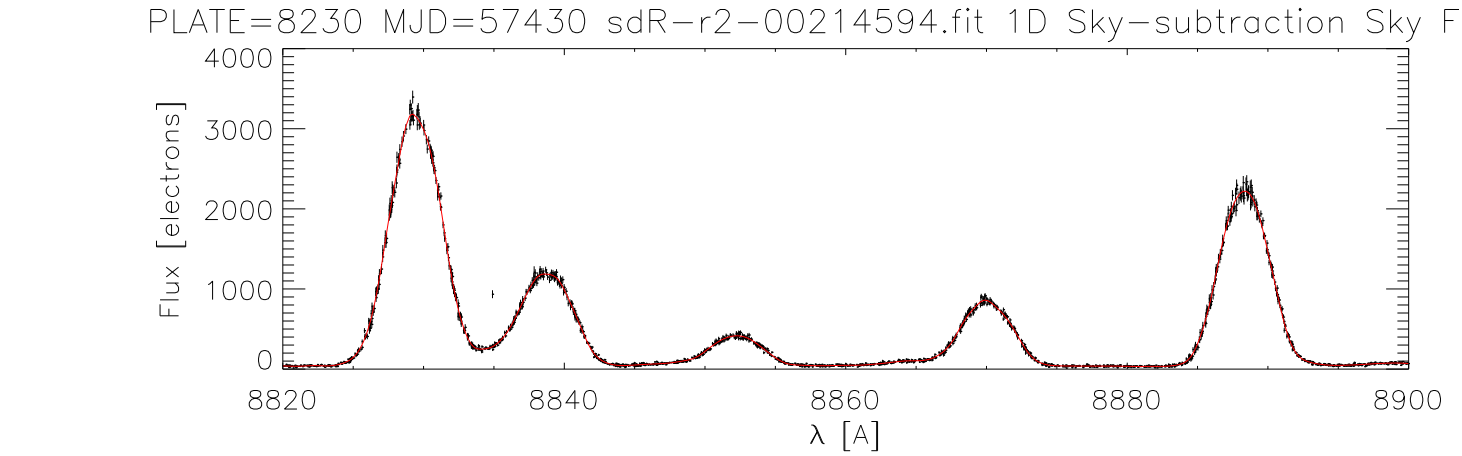

PLATE=8230 MJD=57430 Extraction chi^2 for sdR−r2−00214594.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number

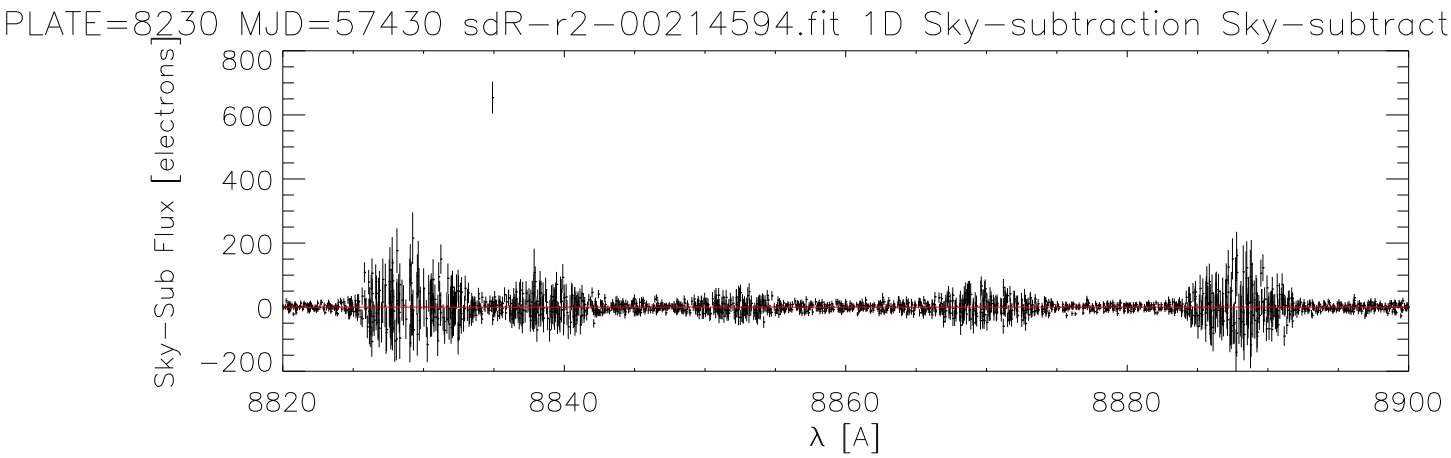

PLATE=8230 MJD=57430 Sky Line Deviations for sdR-r2-00214594.fit
Before shift
After shift
1.00 pix
Fiber Number
0
100
200
300
400
500
5460 5577 6300 6363 6553 6923 6949 7571 7794 7821 8399 8430 8885 8919
Sky Line Wavelength


PLATE=8230 MJD=57430 Smooth superflat for sdR-r2-00214594.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)

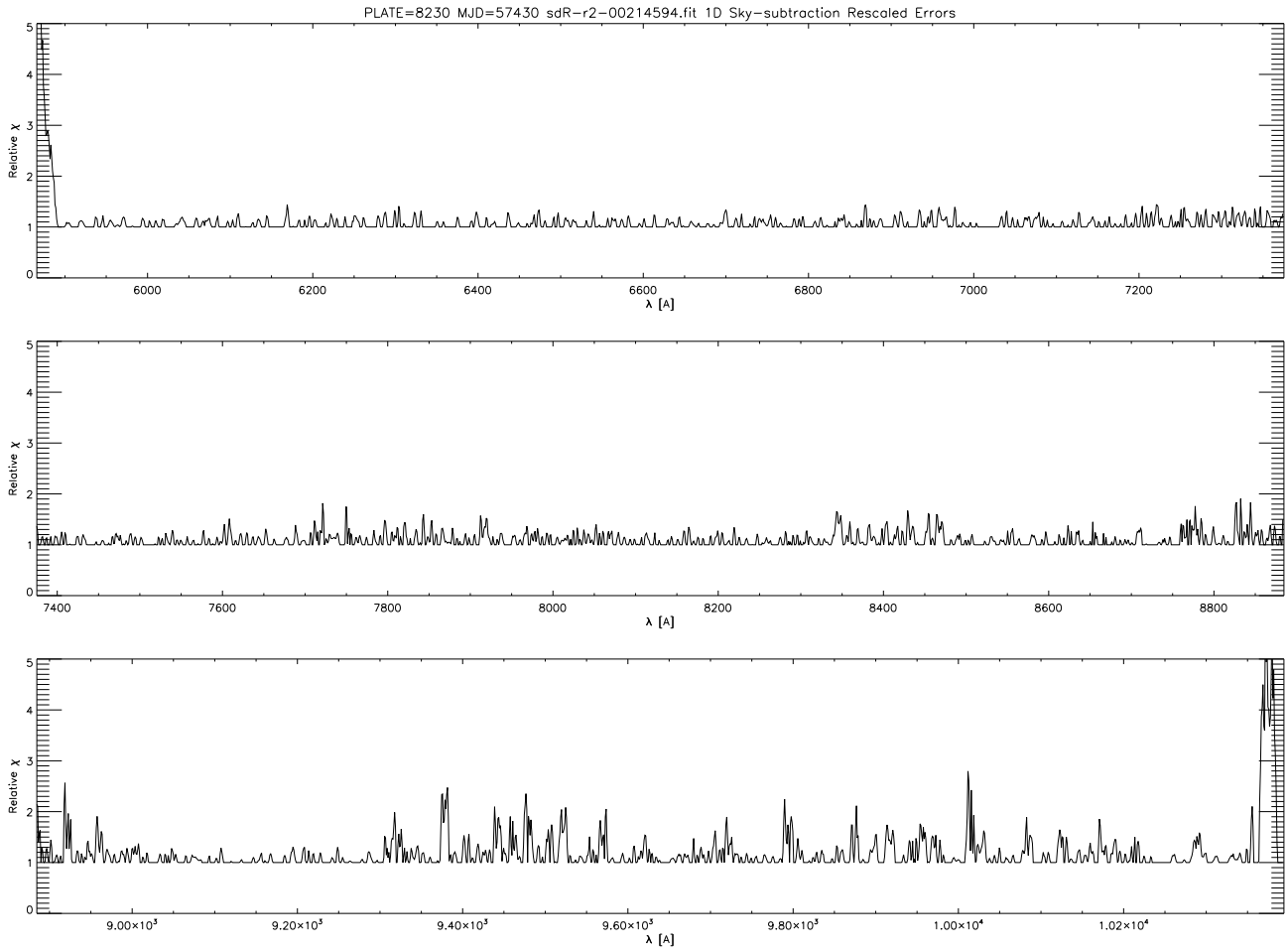

PLATE=8230 MJD=57430 sdR-r2-00214594.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number

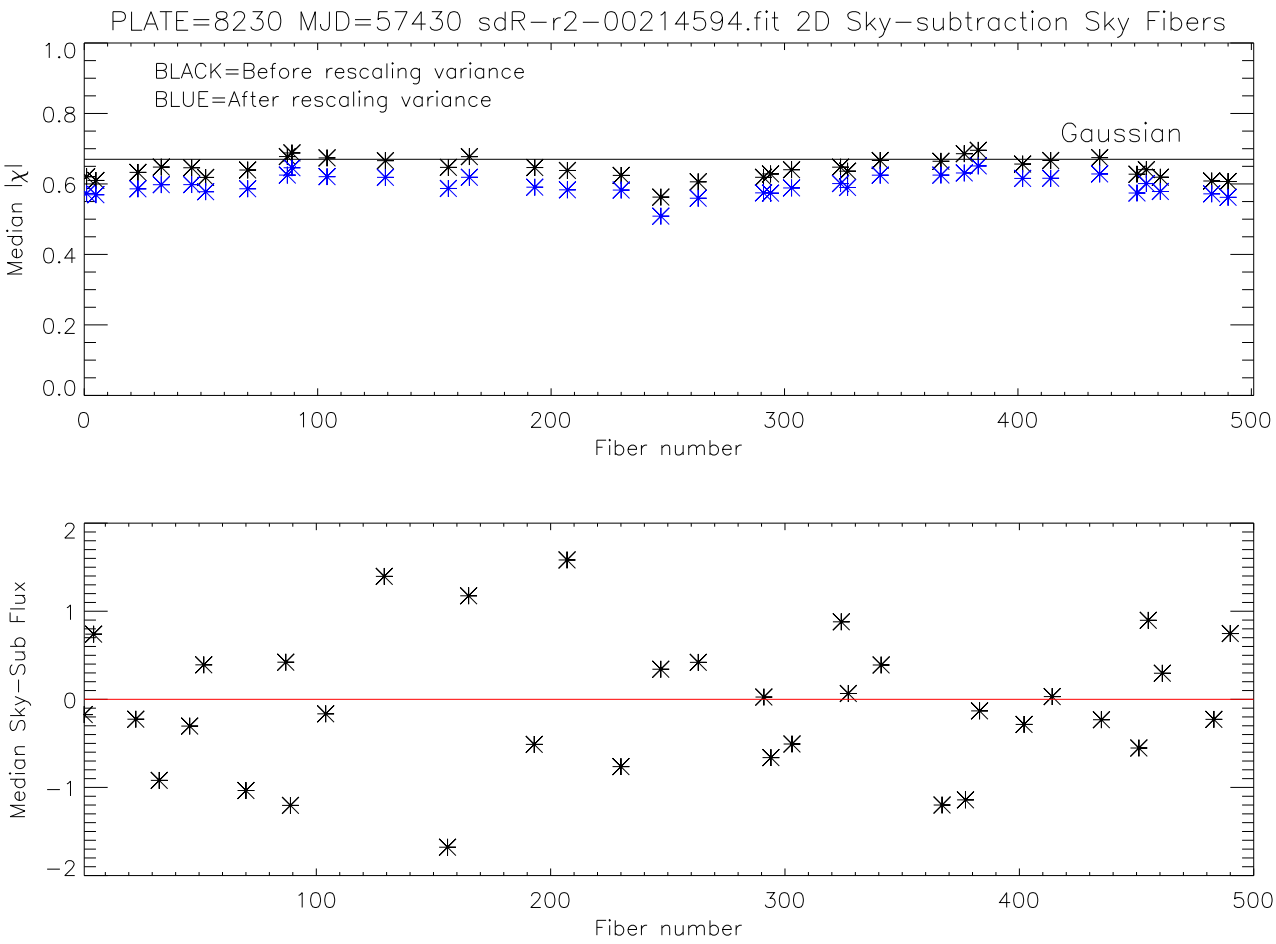
Median Sky-Sub Flux
Fiber number

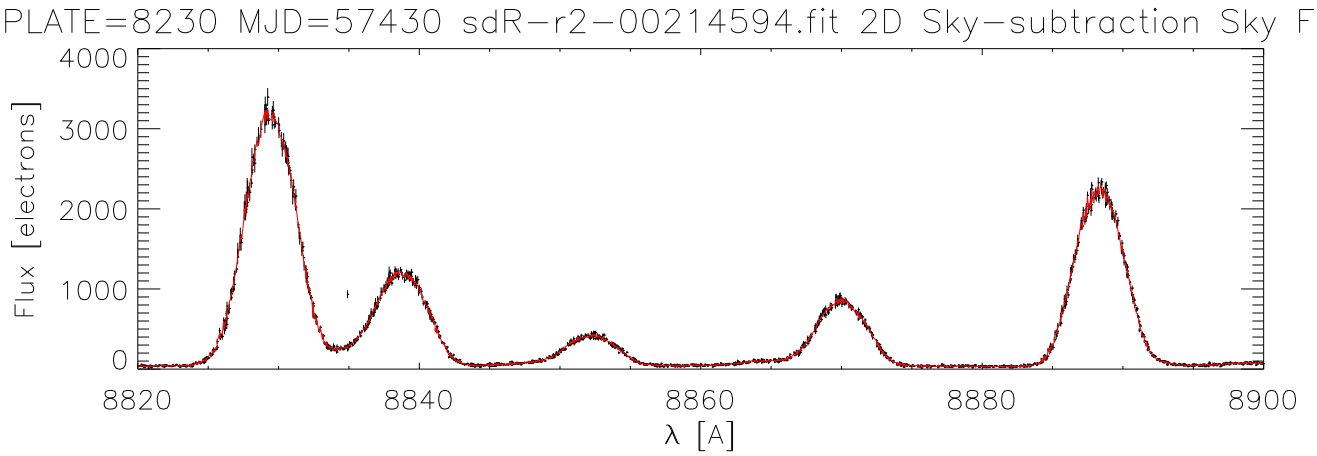

PLATE=8230 MJD=57430 sdR-r2-00214594.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

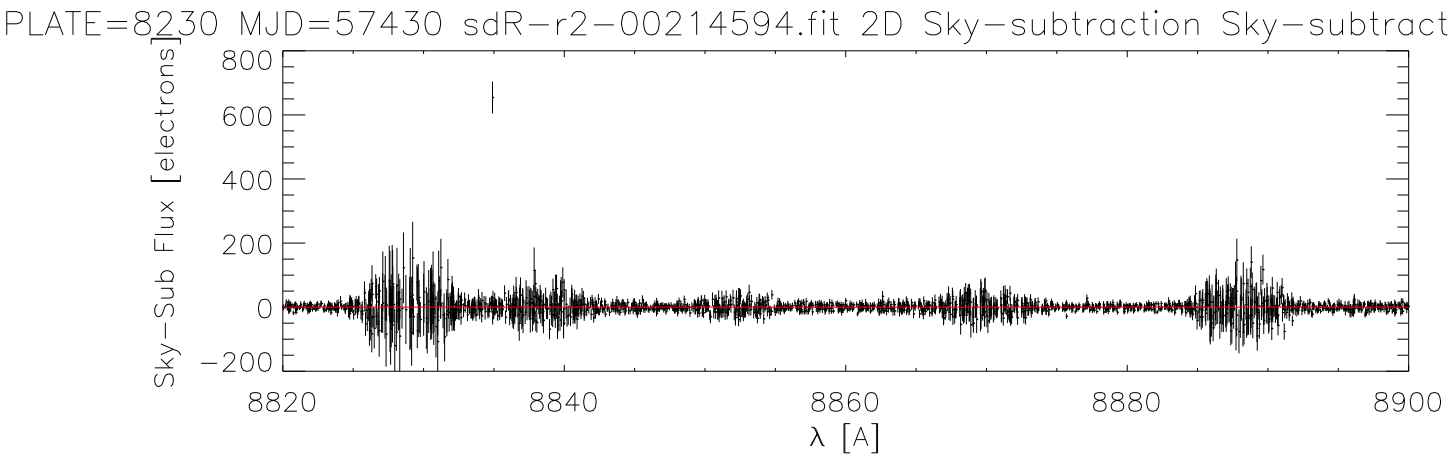

PLATE=8230 MJD=57430 sdR-r2-00214594.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 35

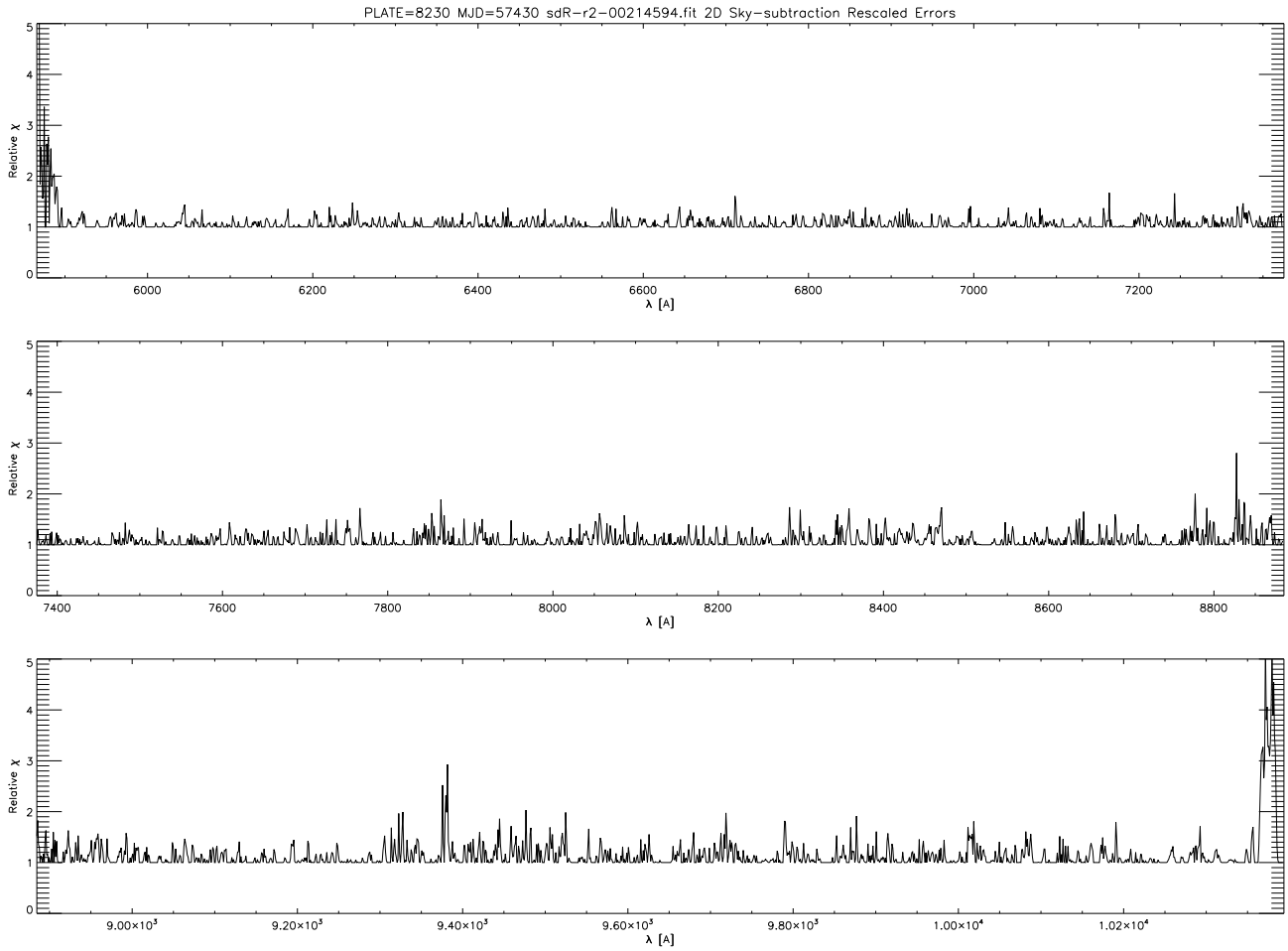


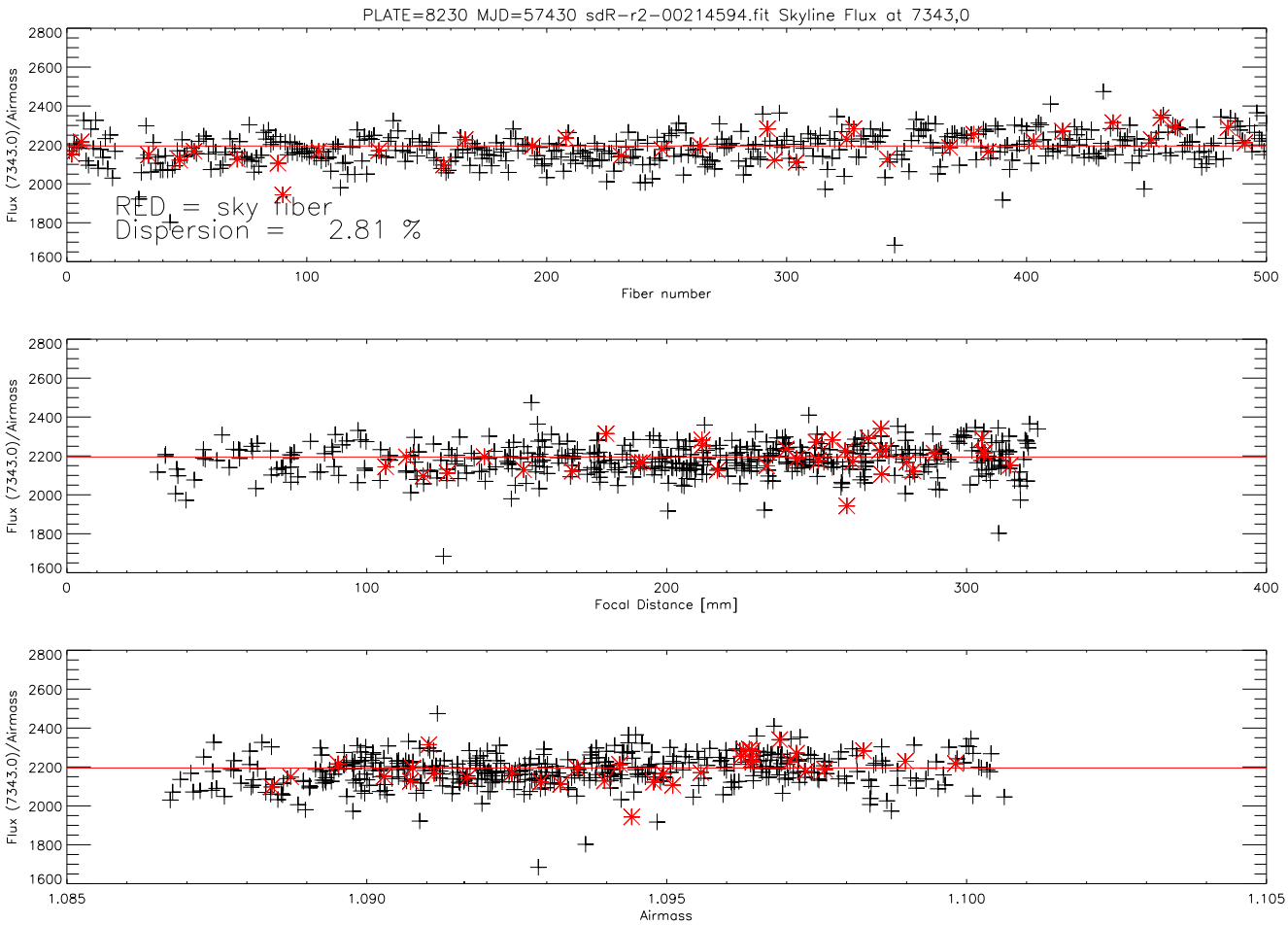

PLATE=8230 MJD=57430 sdR-r2-00214594.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

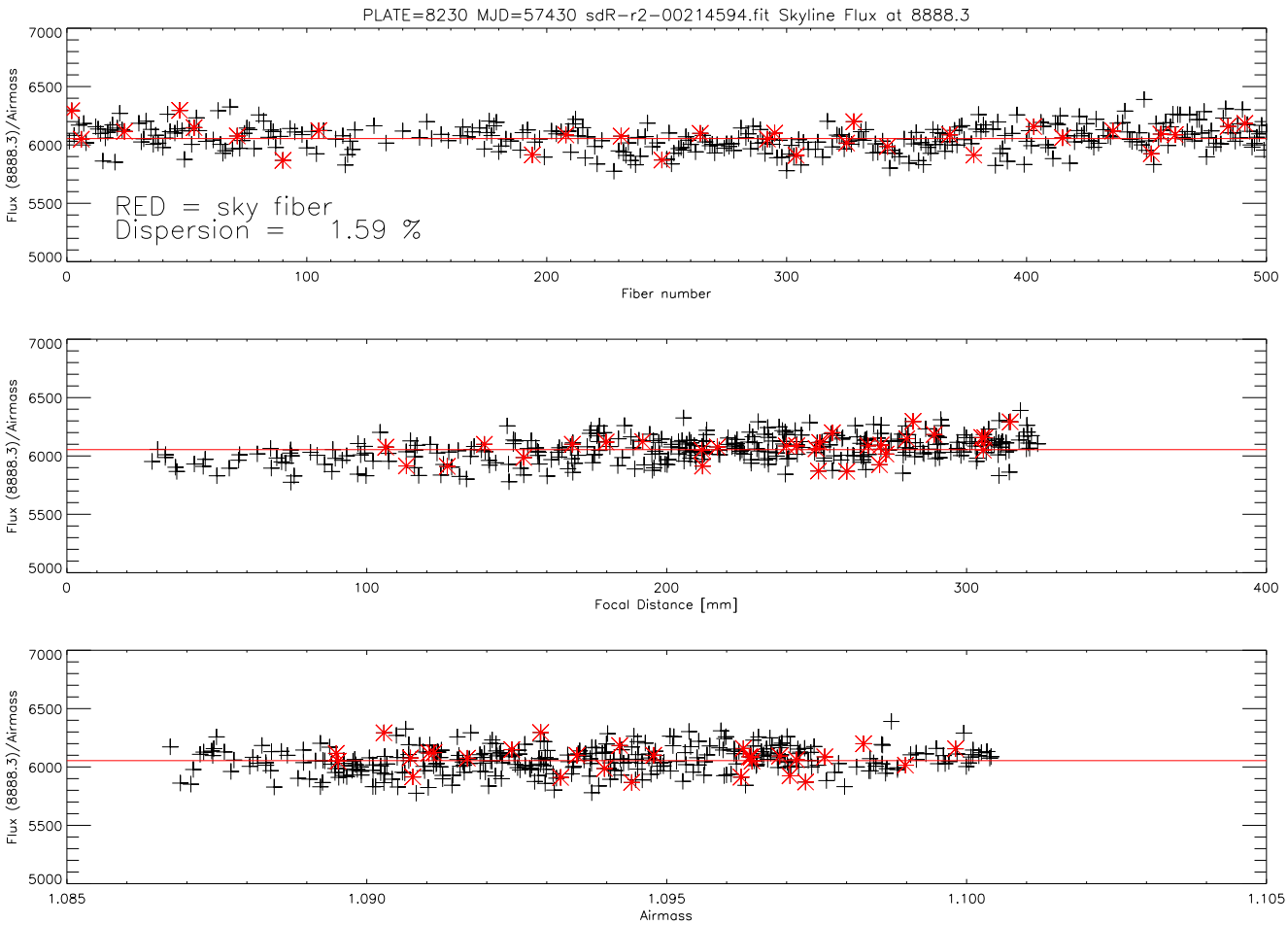

PLATE=8230 MJD=57430 sdR-r2-00214594.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

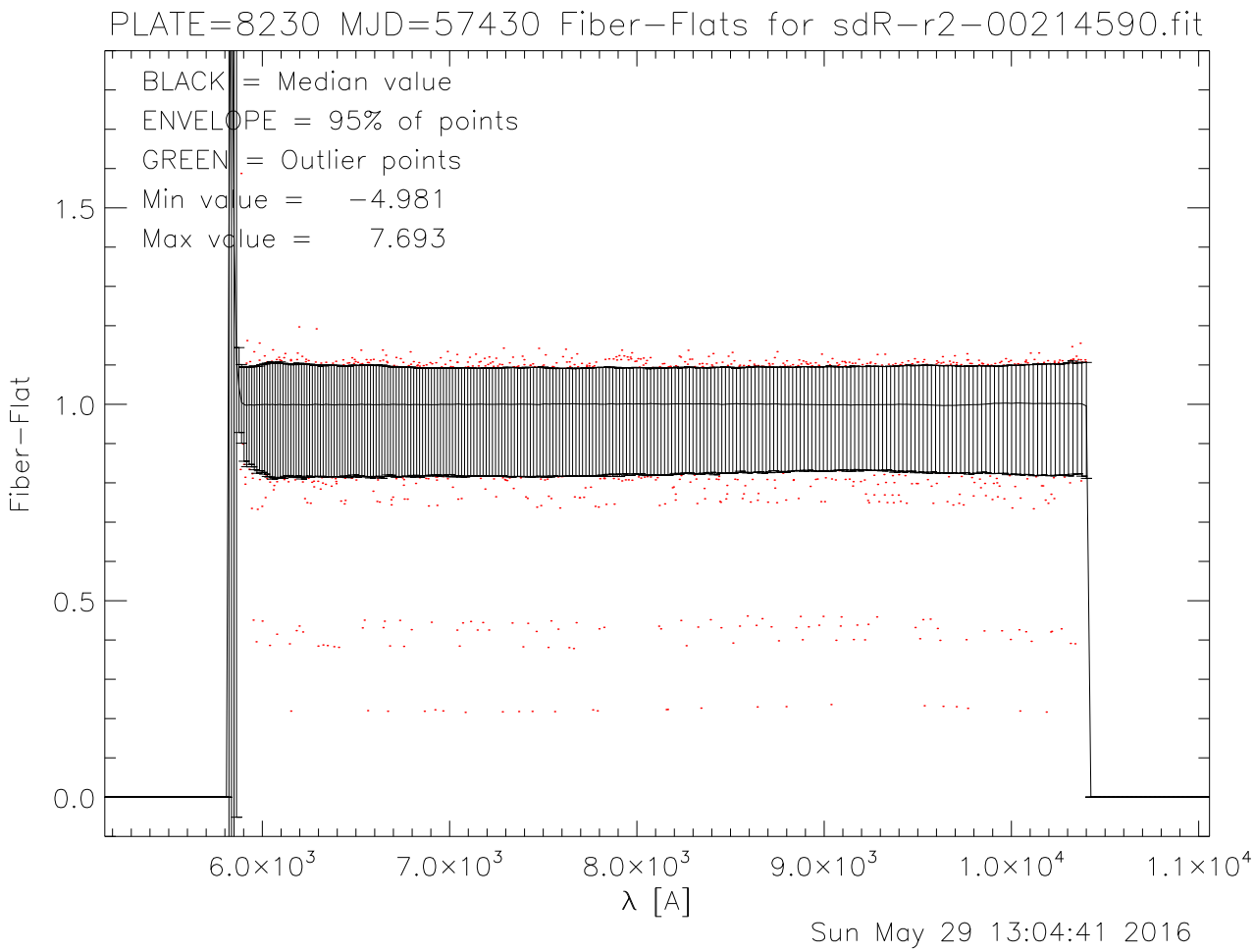

PLATE=8230 MJD=57430 sdR-r2-00214594.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

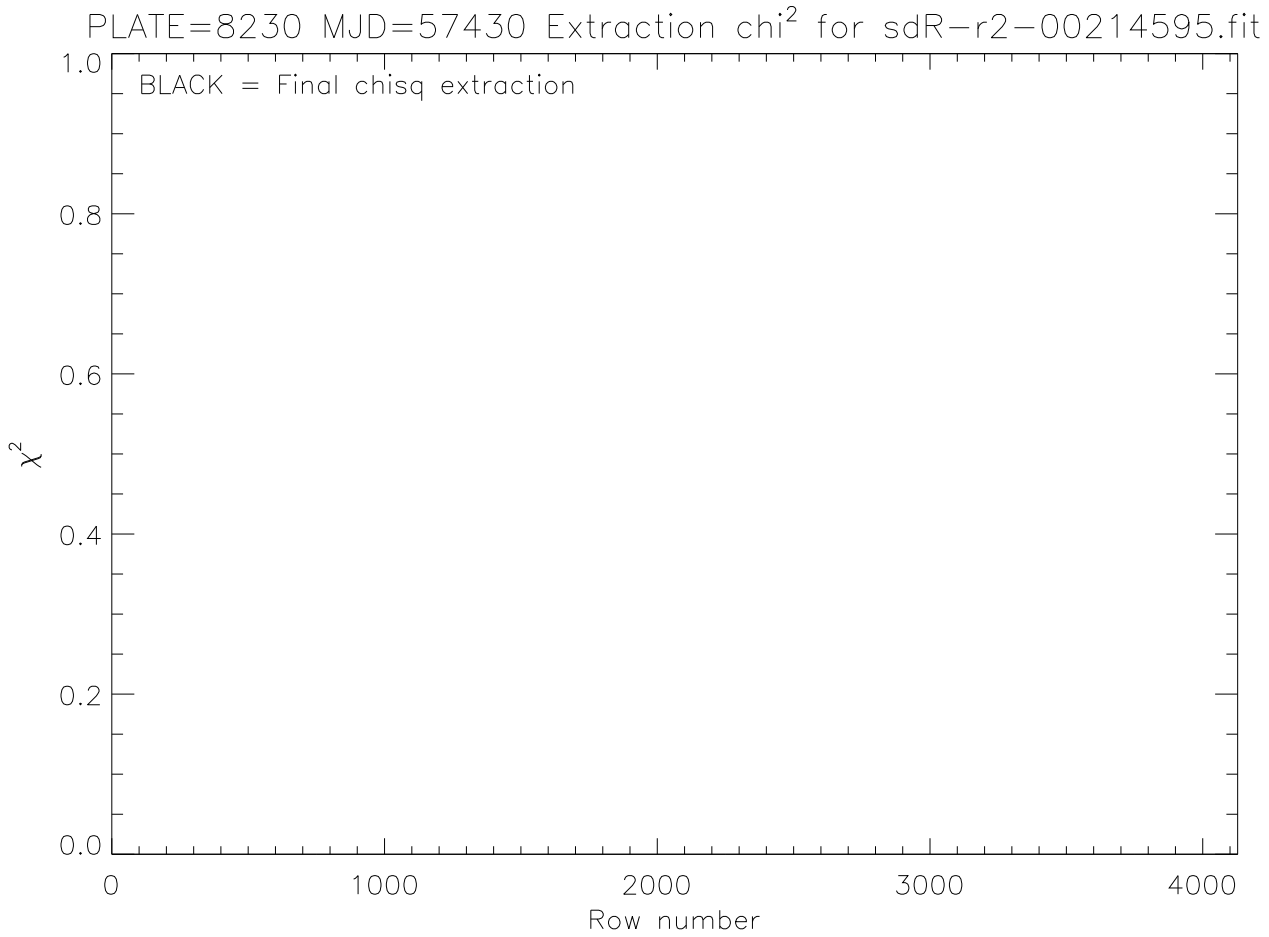
Number of sky fibers = 35

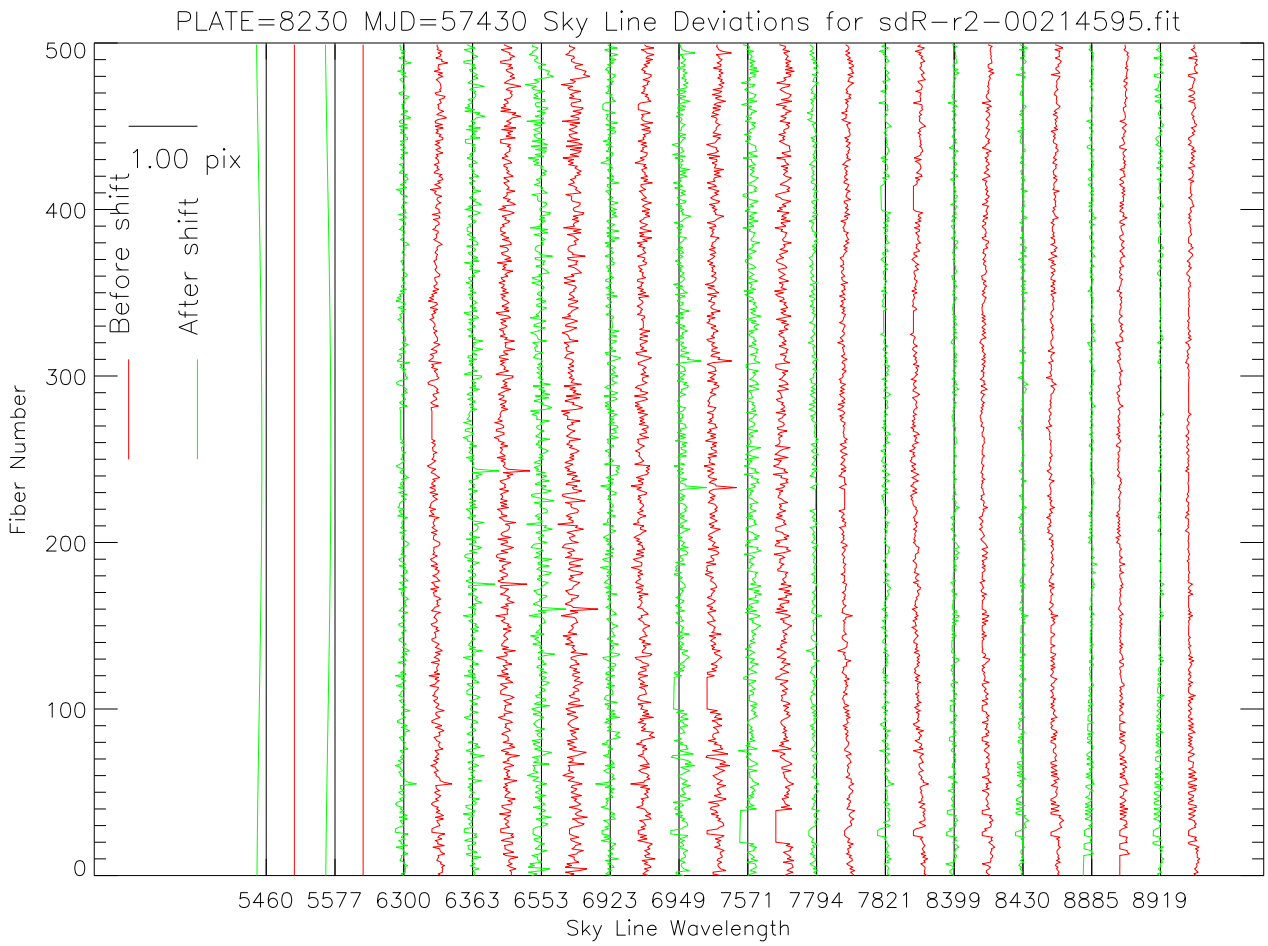


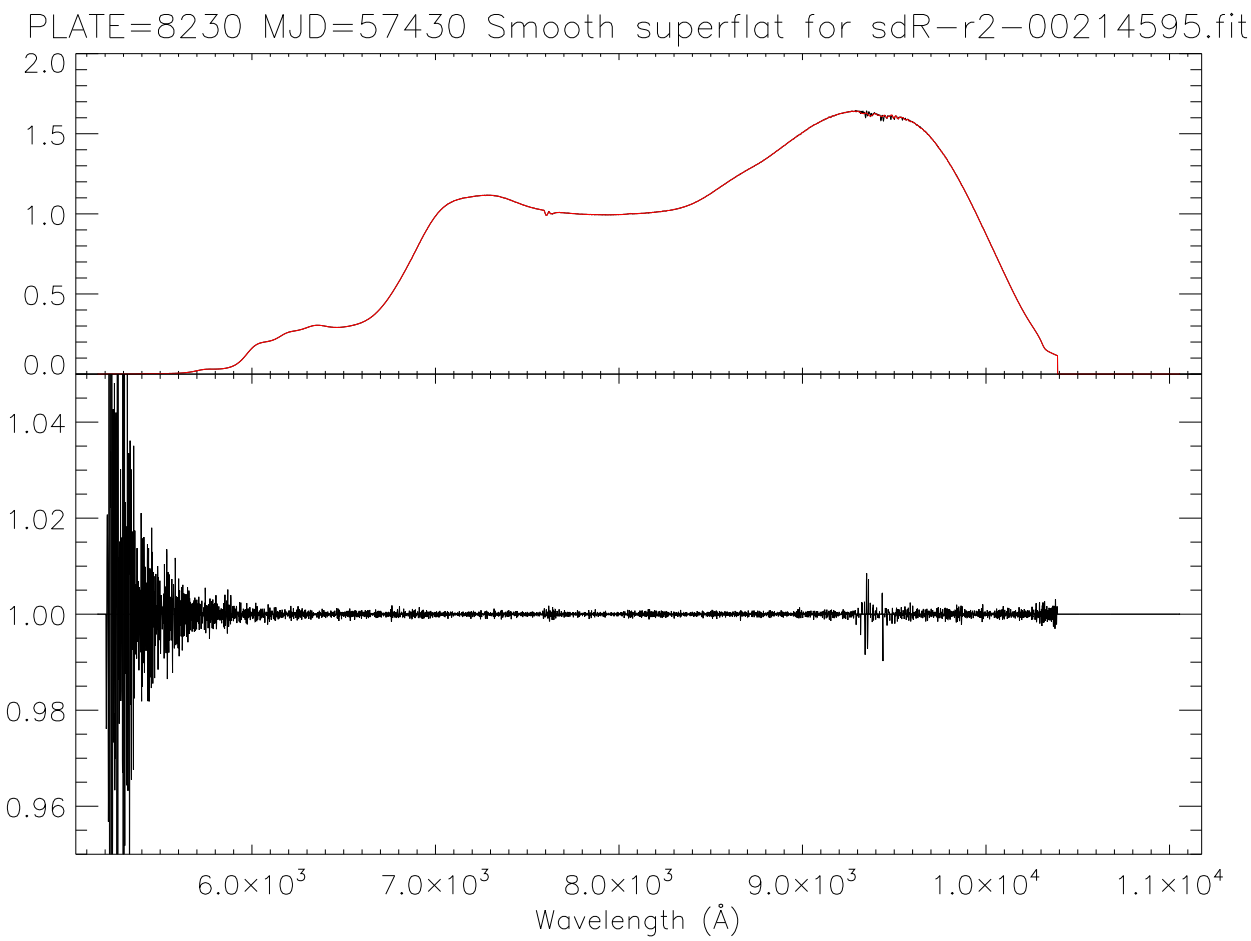

PLATE=8230 MJD=57430 sdR-r2-00214594.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.81 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

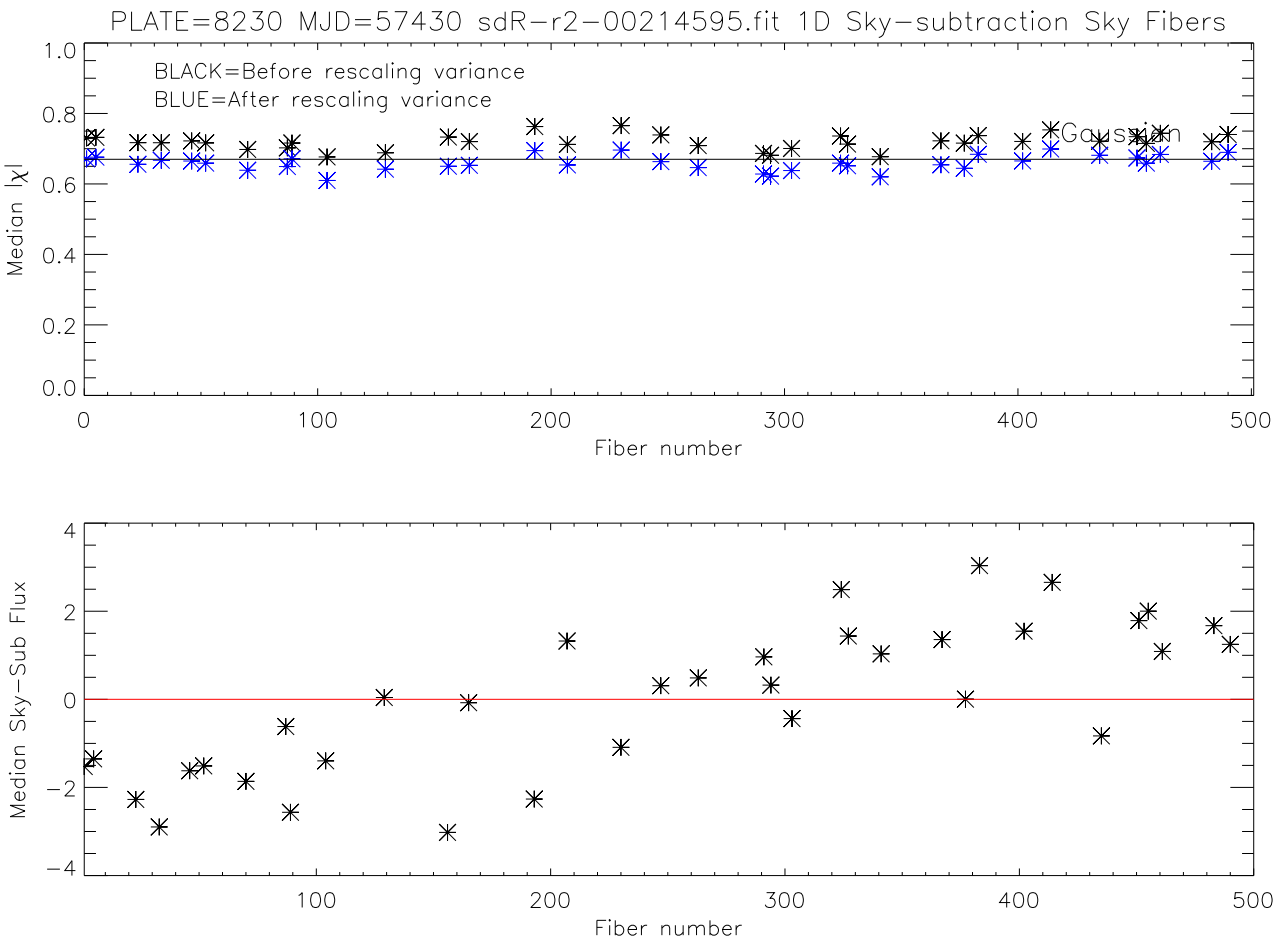

PLATE=8230 MJD=57430 sdR-r2-00214594.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.59 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

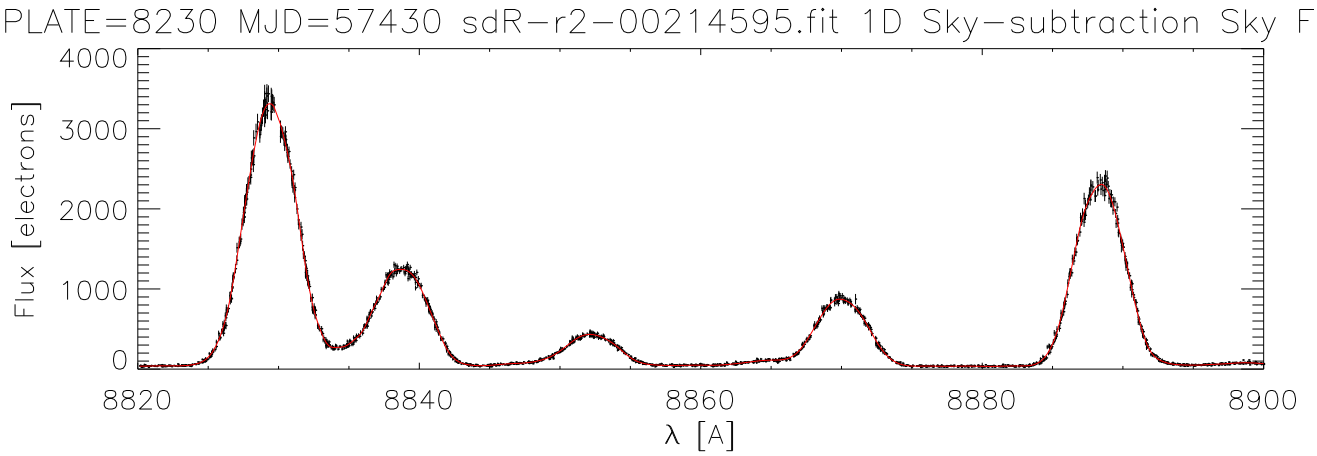

PLATE=8230 MJD=57430 Fiber−Flats for sdR−r2−00214590.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −4.981
Max value = 7.693
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Sun May 29 13:04:41 2016

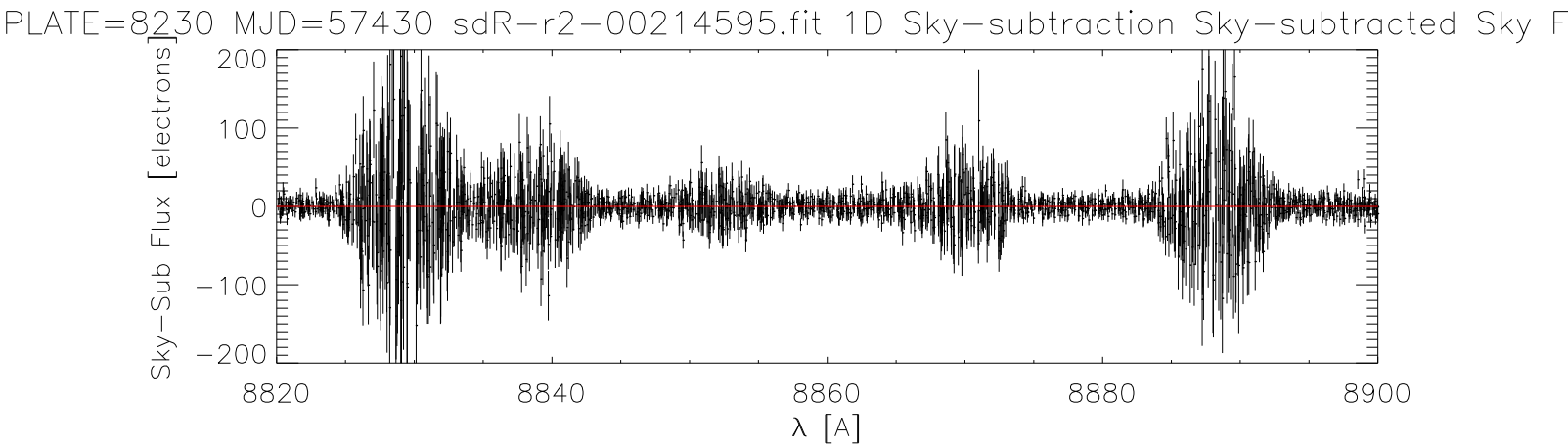

PLATE=8230 MJD=57430 Extraction chi^2 for sdR−r2−00214595.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=8230 MJD=57430 Sky Line Deviations for sdR-r2-00214595.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

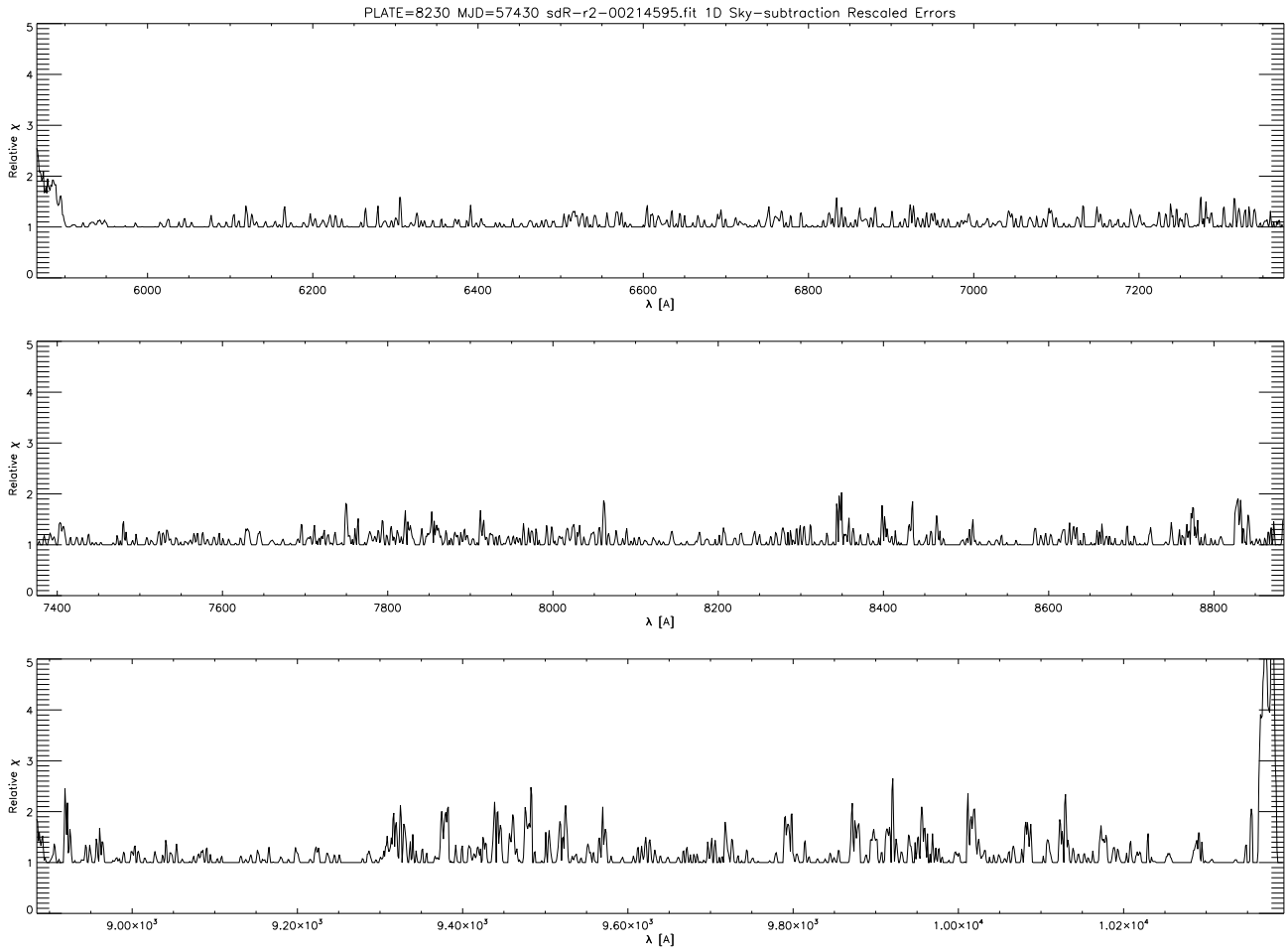

PLATE=8230 MJD=57430 Smooth superflat for sdR-r2-00214595.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

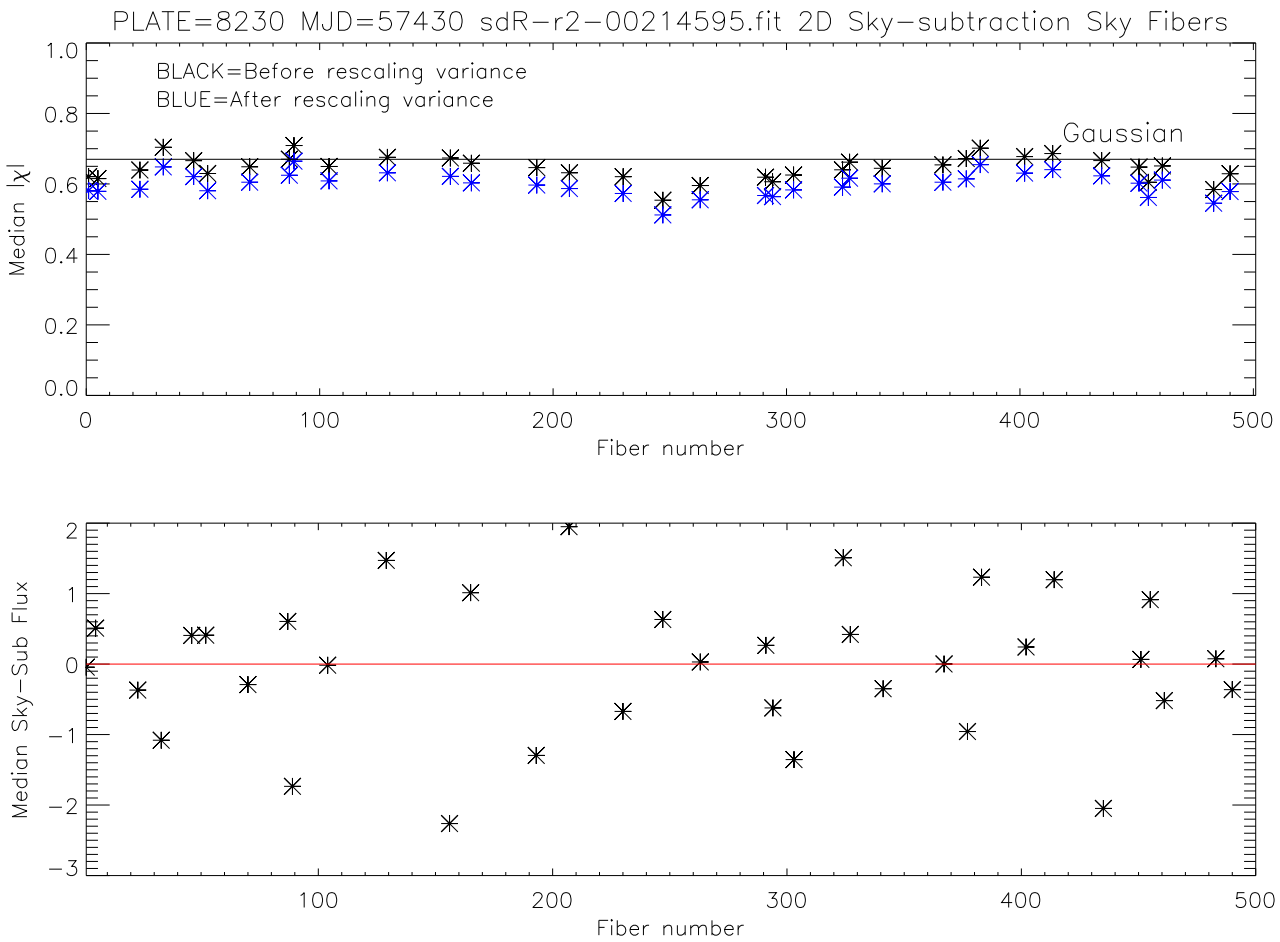

PLATE=8230 MJD=57430 sdR-r2-00214595.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number


PLATE=8230 MJD=57430 sdR-r2-00214595.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

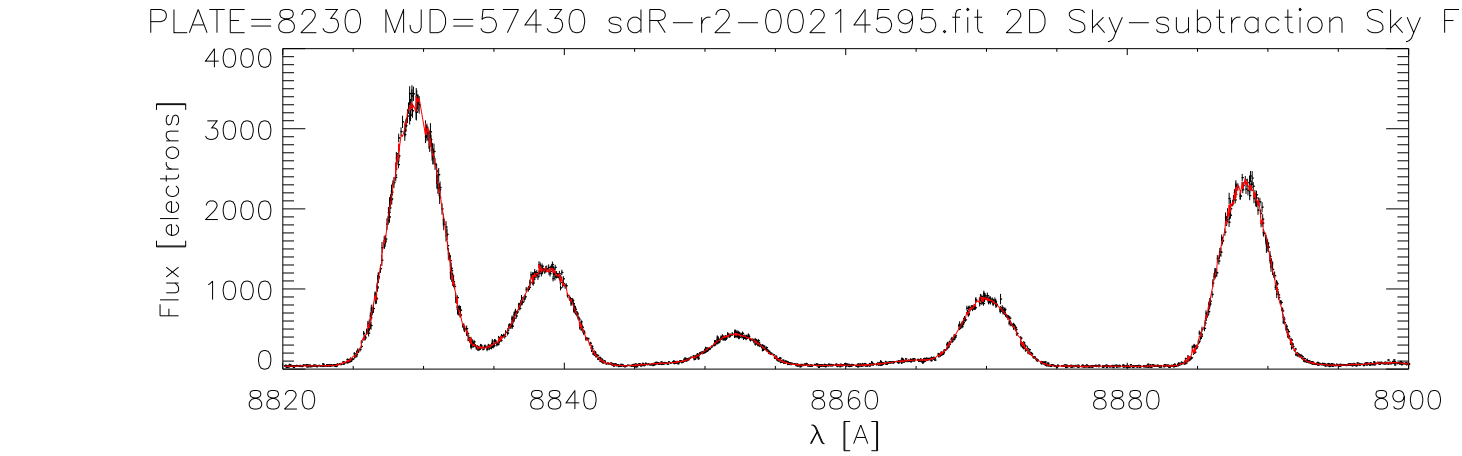

PLATE=8230 MJD=57430 sdR-r2-00214595.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

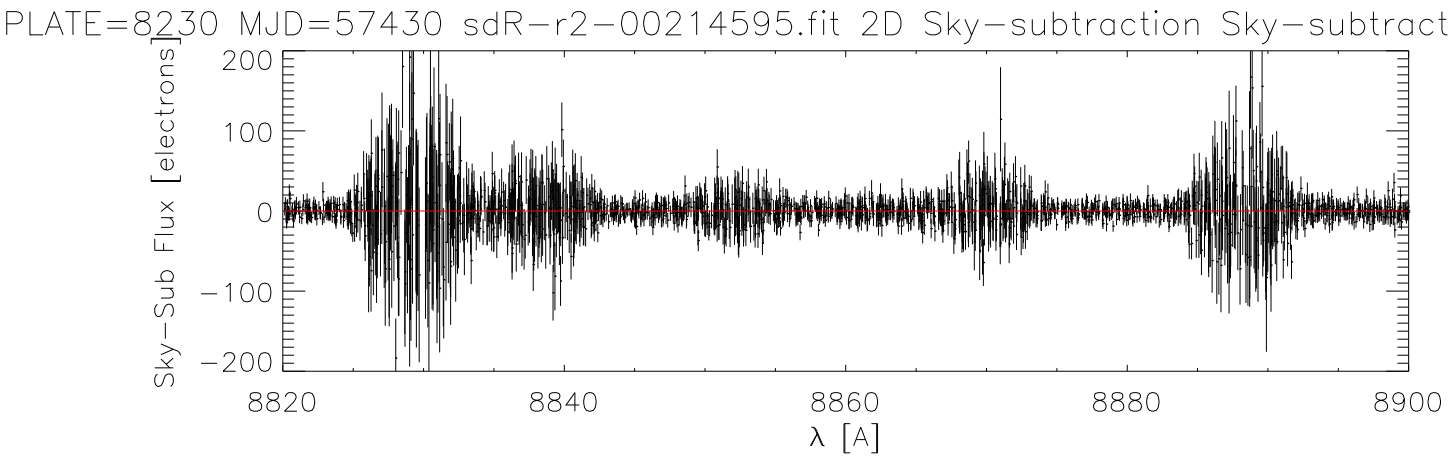
Number of sky fibers = 35



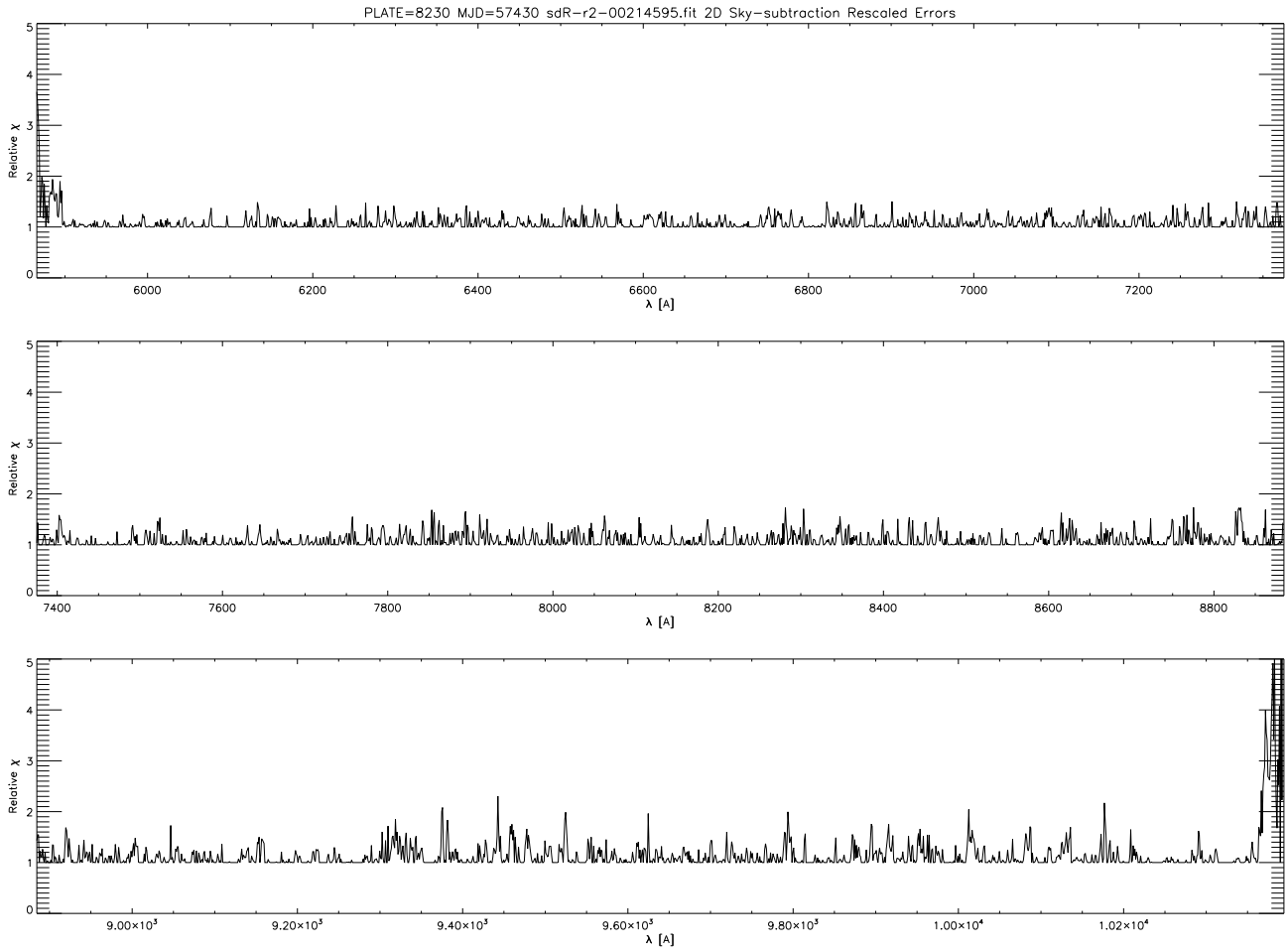

PLATE=8230 MJD=57430 sdR-r2-00214595.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number

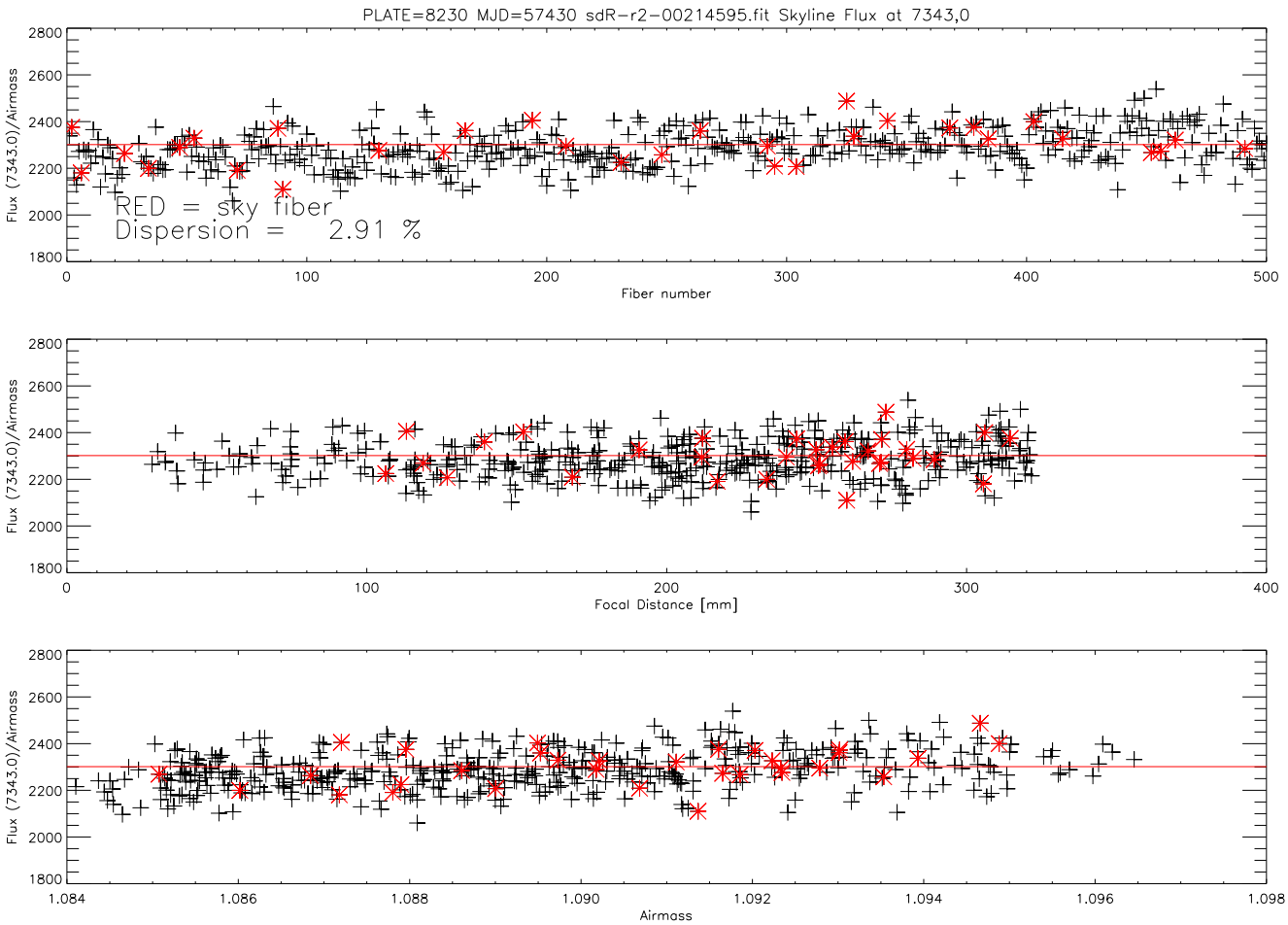
Median Sky-Sub Flux
Fiber number

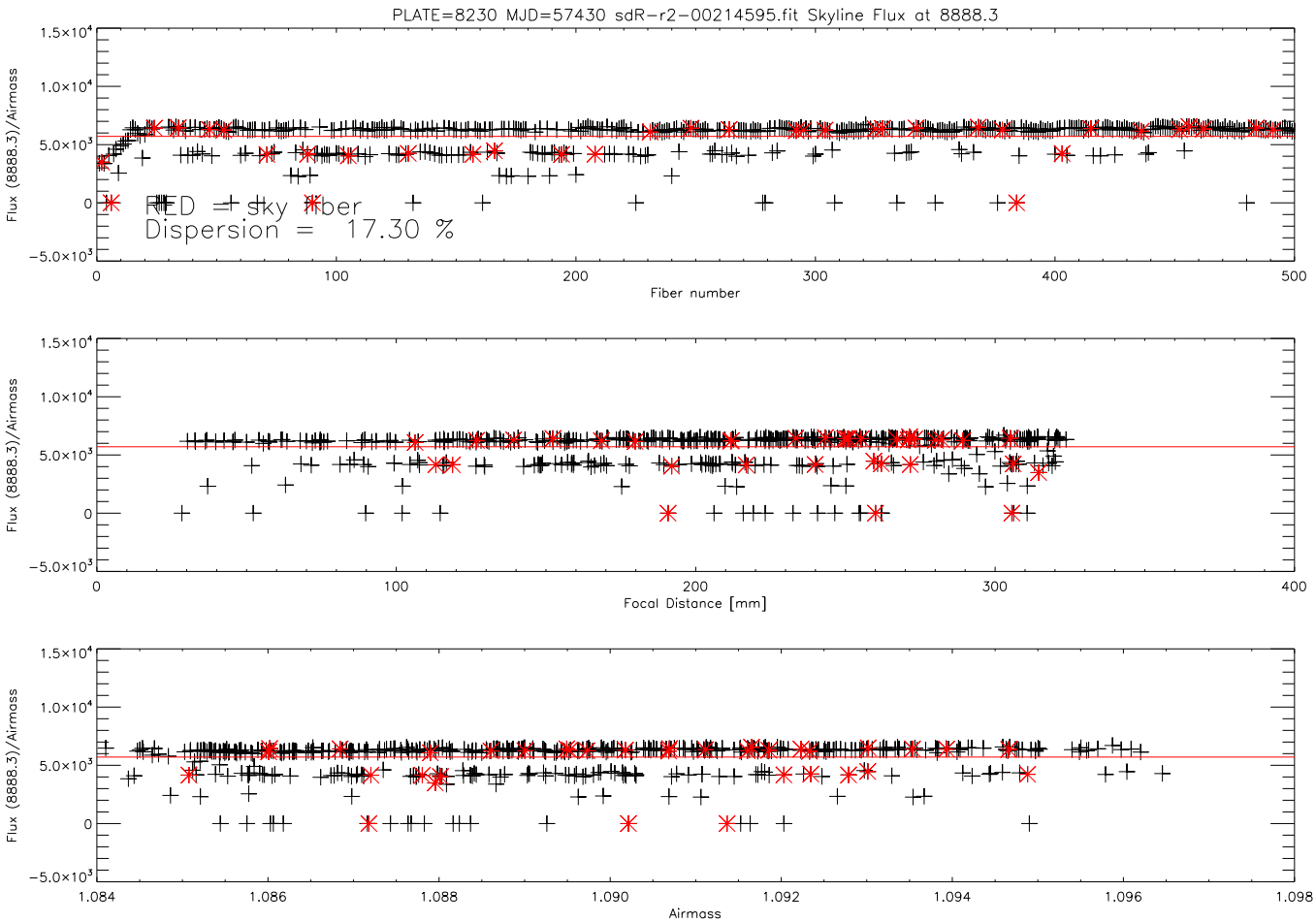

PLATE=8230 MJD=57430 sdR-r2-00214595.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

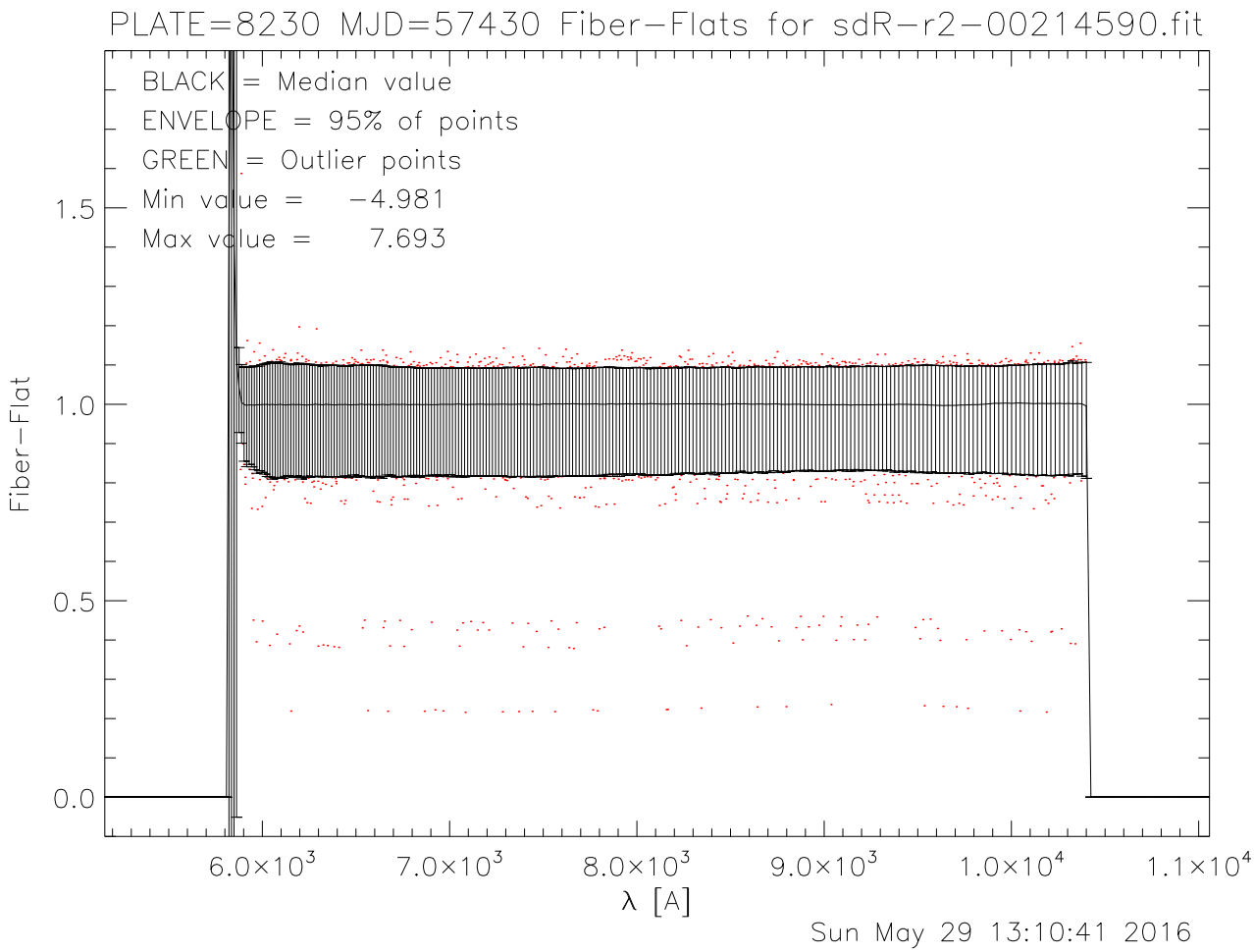

PLATE=8230 MJD=57430 sdR-r2-00214595.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

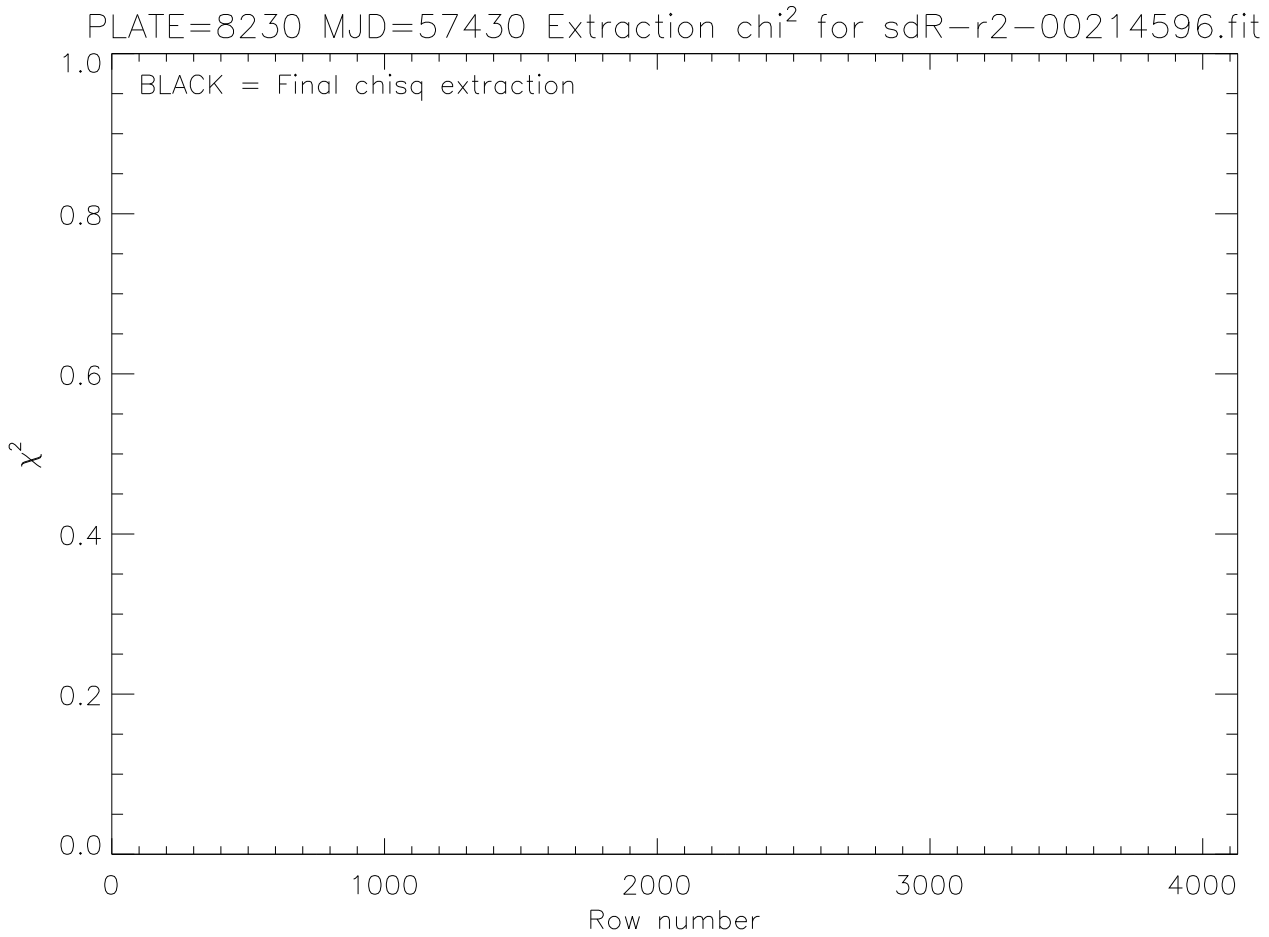
Number of sky fibers = 35

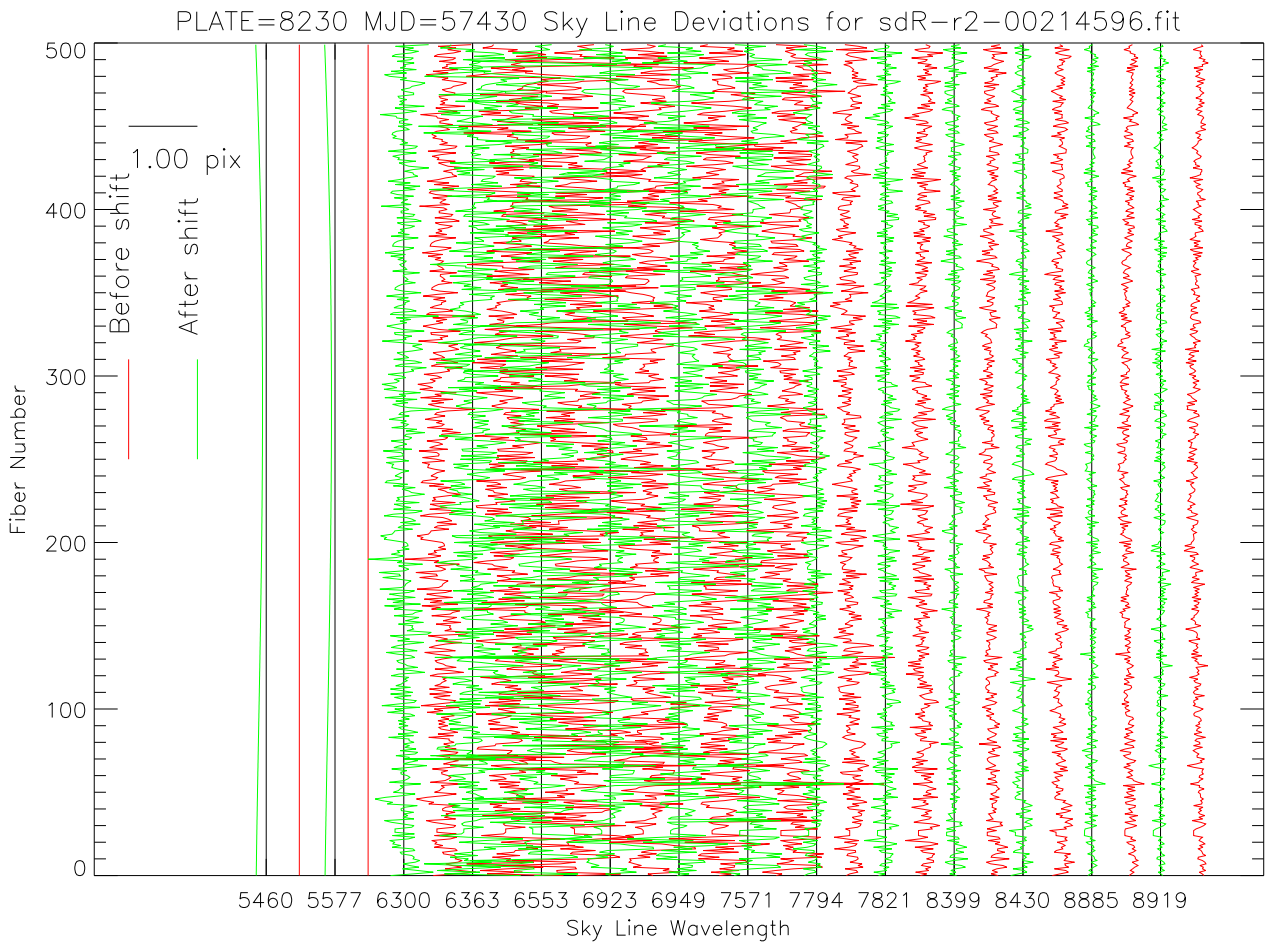


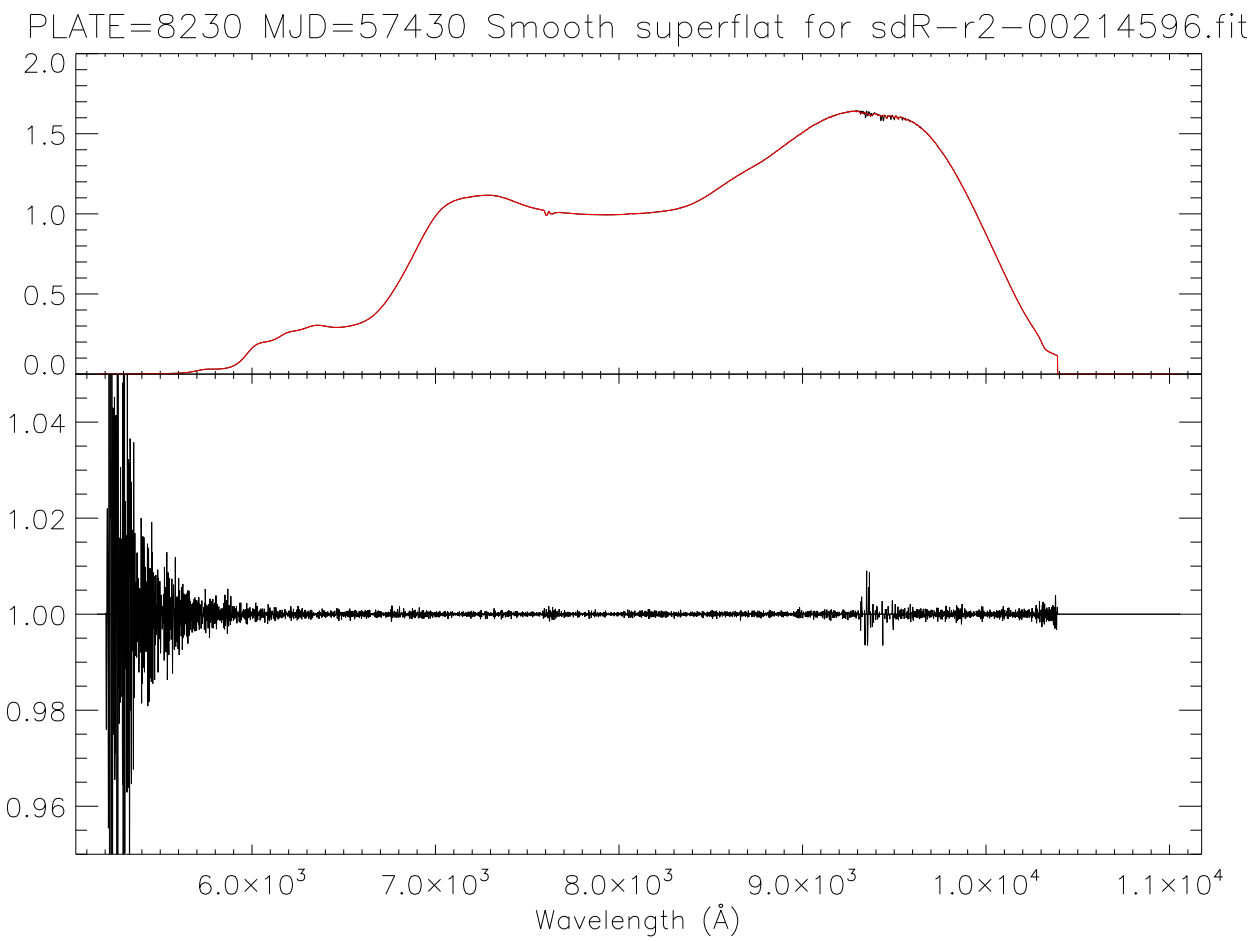

PLATE=8230 MJD=57430 sdR-r2-00214595.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.91 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

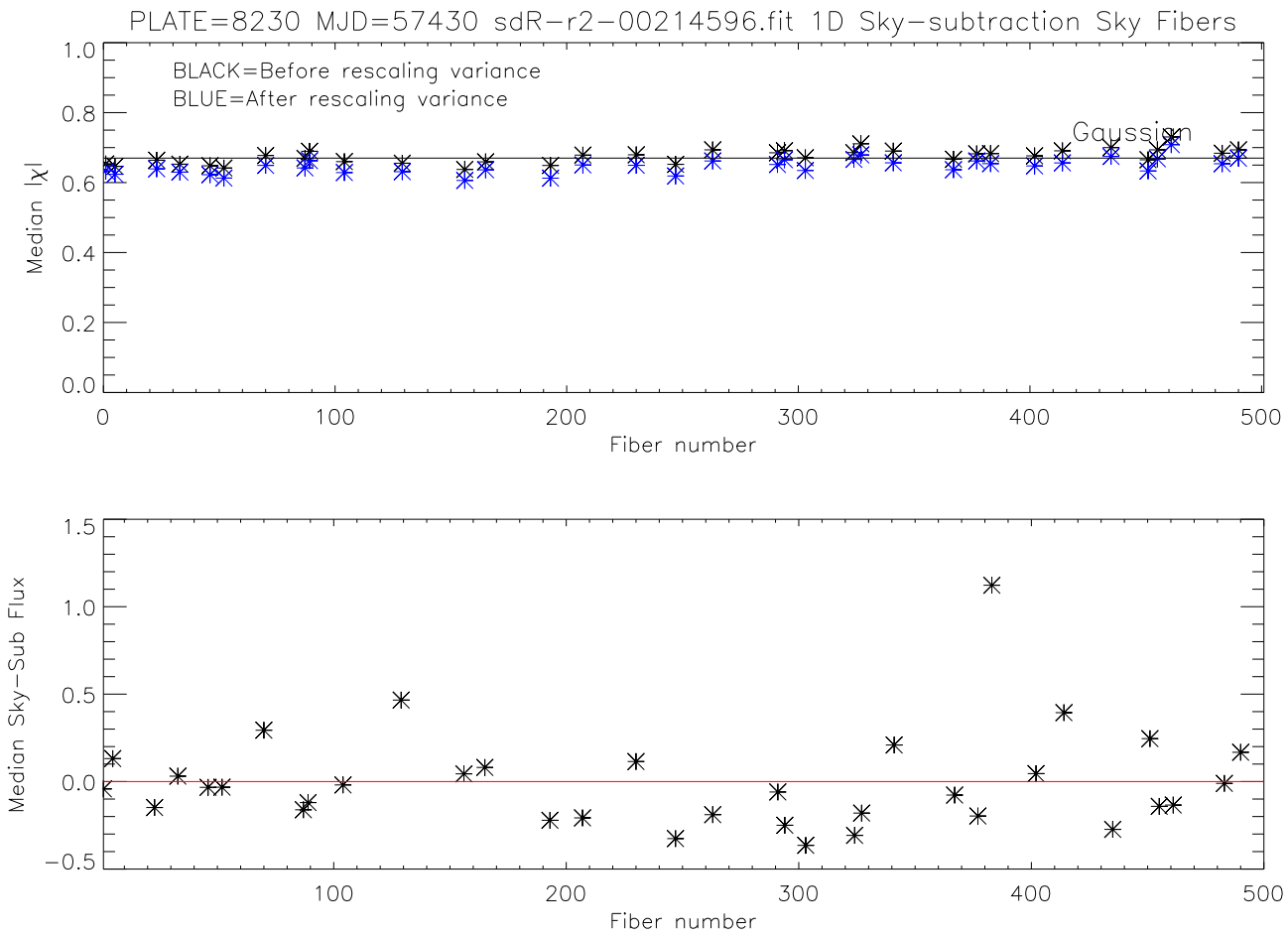

PLATE=8230 MJD=57430 sdR-r2-00214595.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 17.30 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

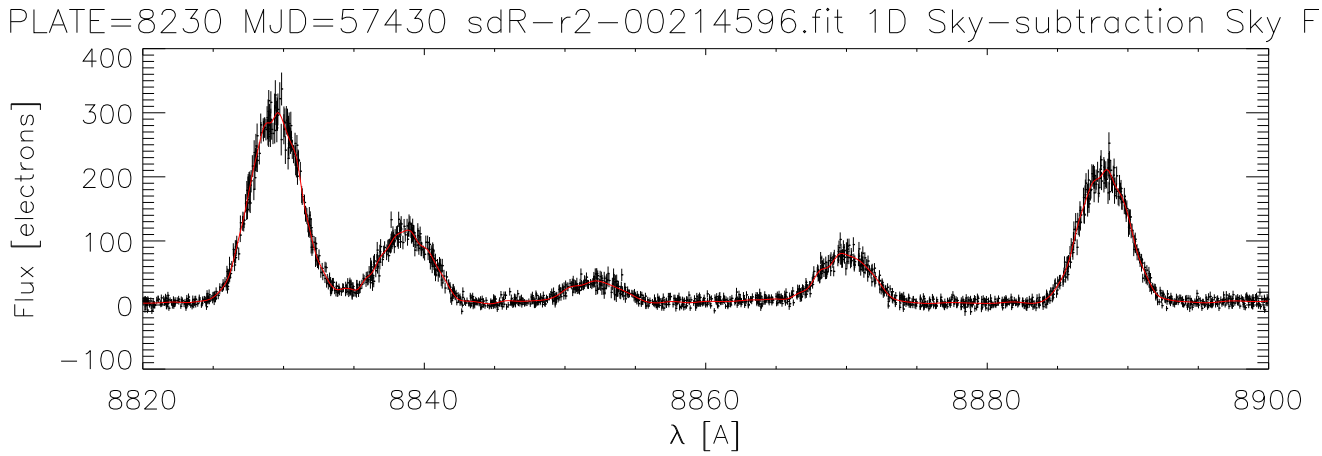

PLATE=8230 MJD=57430 Fiber−Flats for sdR−r2−00214590.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −4.981
Max value = 7.693
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Sun May 29 13:10:41 2016

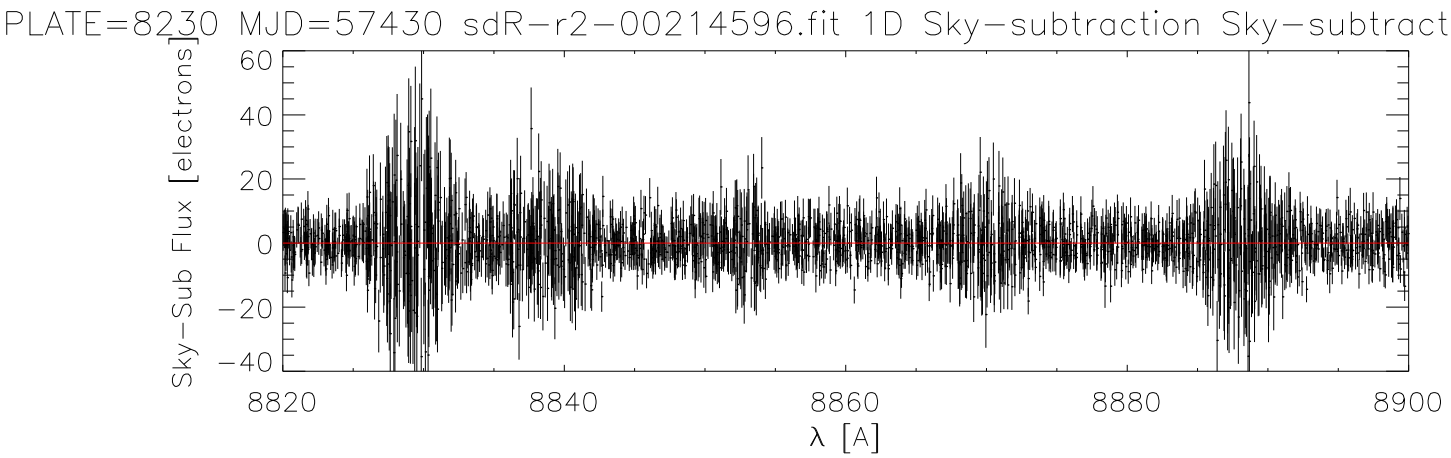

PLATE=8230 MJD=57430 Extraction chi^2 for sdR−r2−00214596.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=8230 MJD=57430 Sky Line Deviations for sdR-r2-00214596.fit
Fiber Number
Sky Line Wavelength
Before shift
After shift
1.00 pix
0
100
200
300
400
500
5460 5577 6300 6363 6553 6923 6949 7571 7794 7821 8399 8430 8885 8919

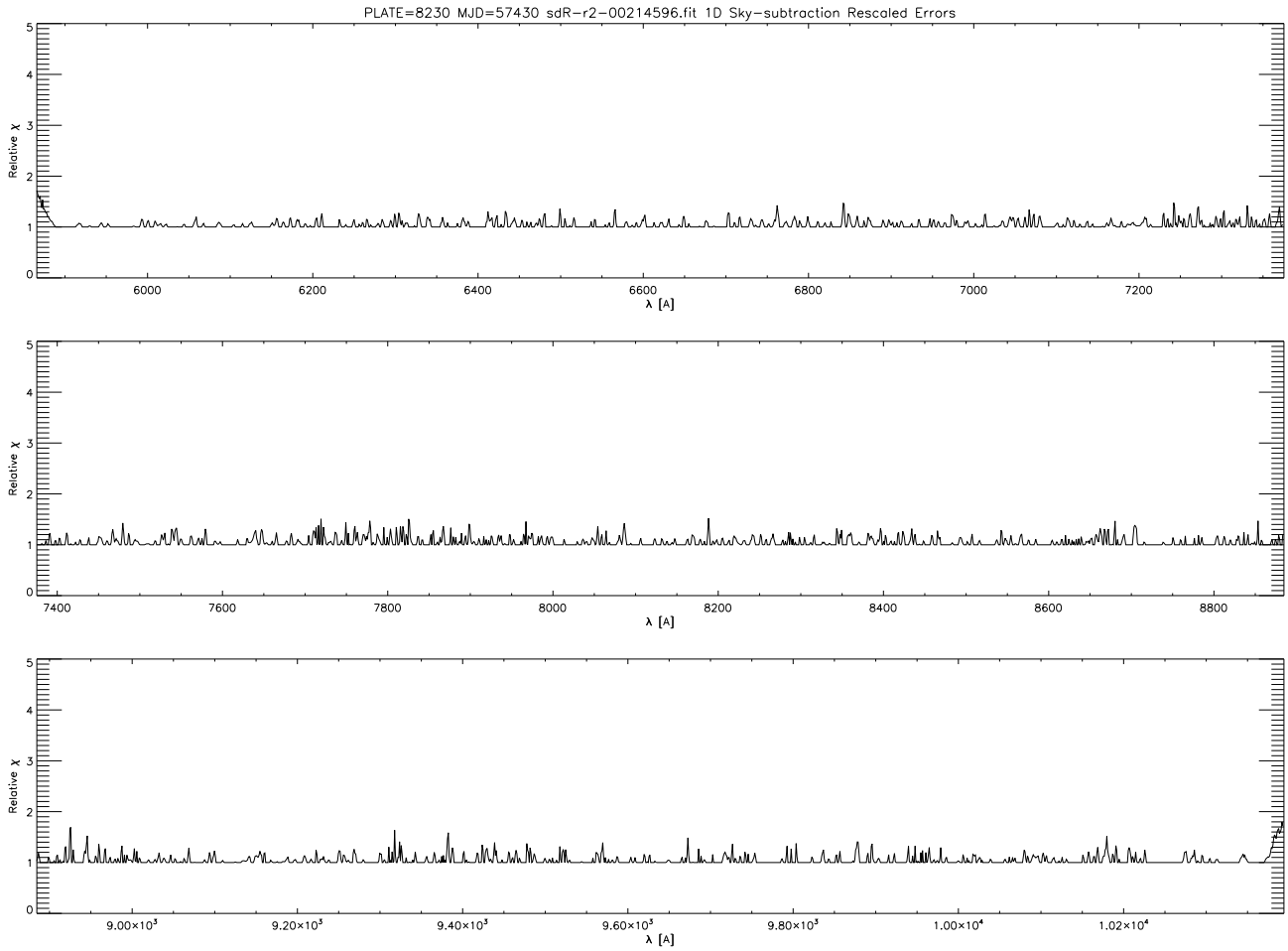

PLATE=8230 MJD=57430 Smooth superflat for sdR-r2-00214596.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

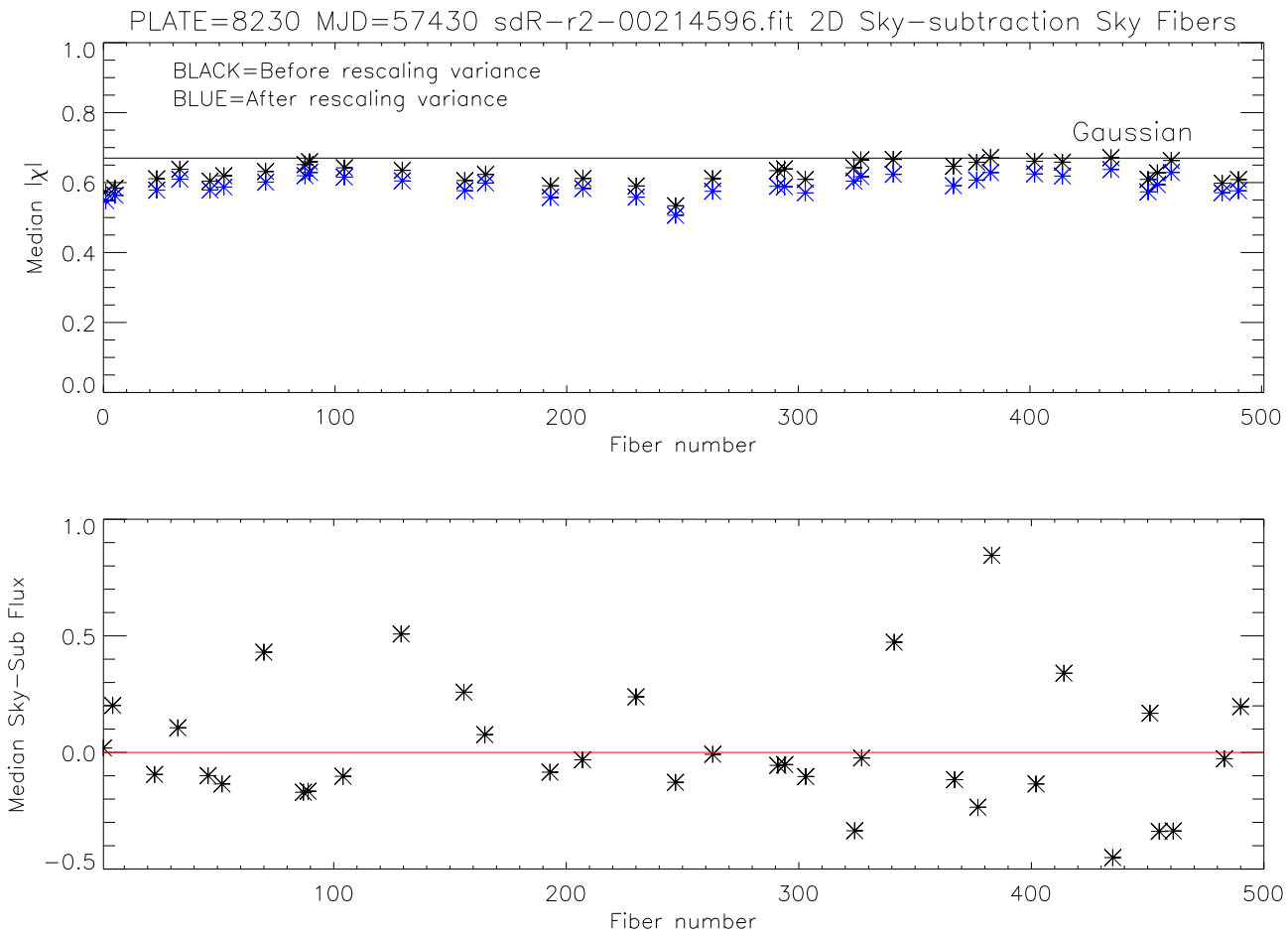

PLATE=8230 MJD=57430 sdR-r2-00214596.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number


PLATE=8230 MJD=57430 sdR-r2-00214596.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
400
300
200
100
0
-100
8820
8840
8860
8880
8900
λ [A]

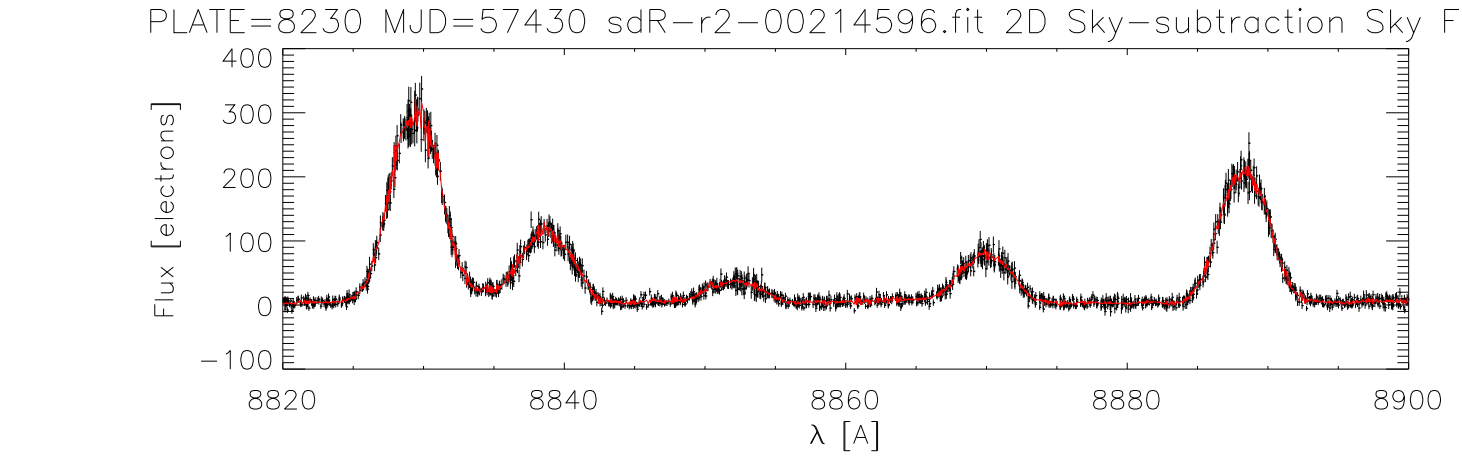

PLATE=8230 MJD=57430 sdR-r2-00214596.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
60
40
20
0
-20
-40
8820
8840
8860
8880
8900
λ [A]

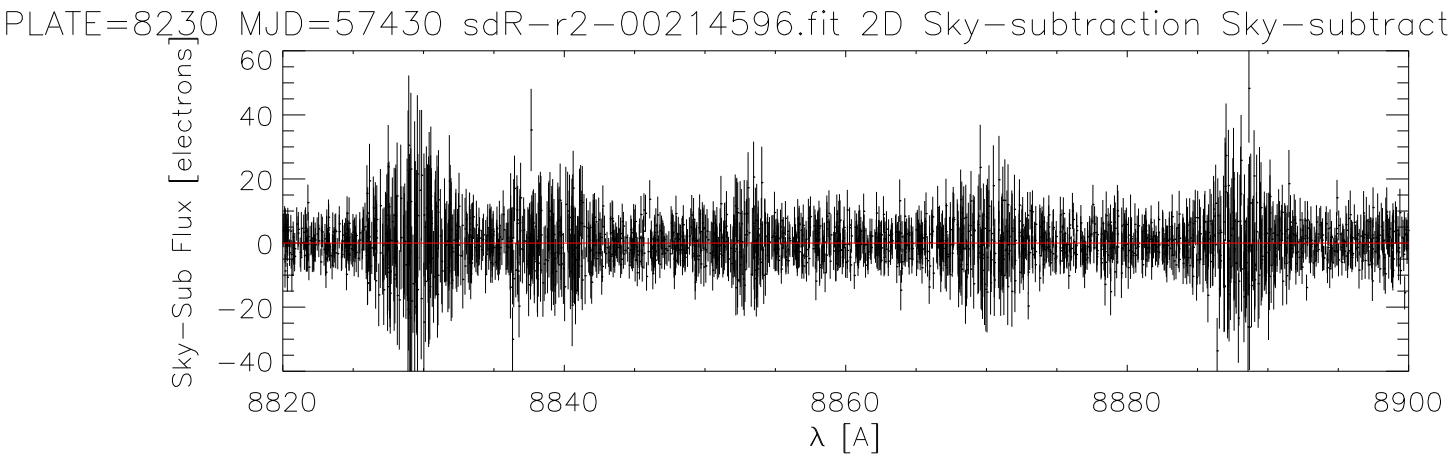
Number of sky fibers = 35



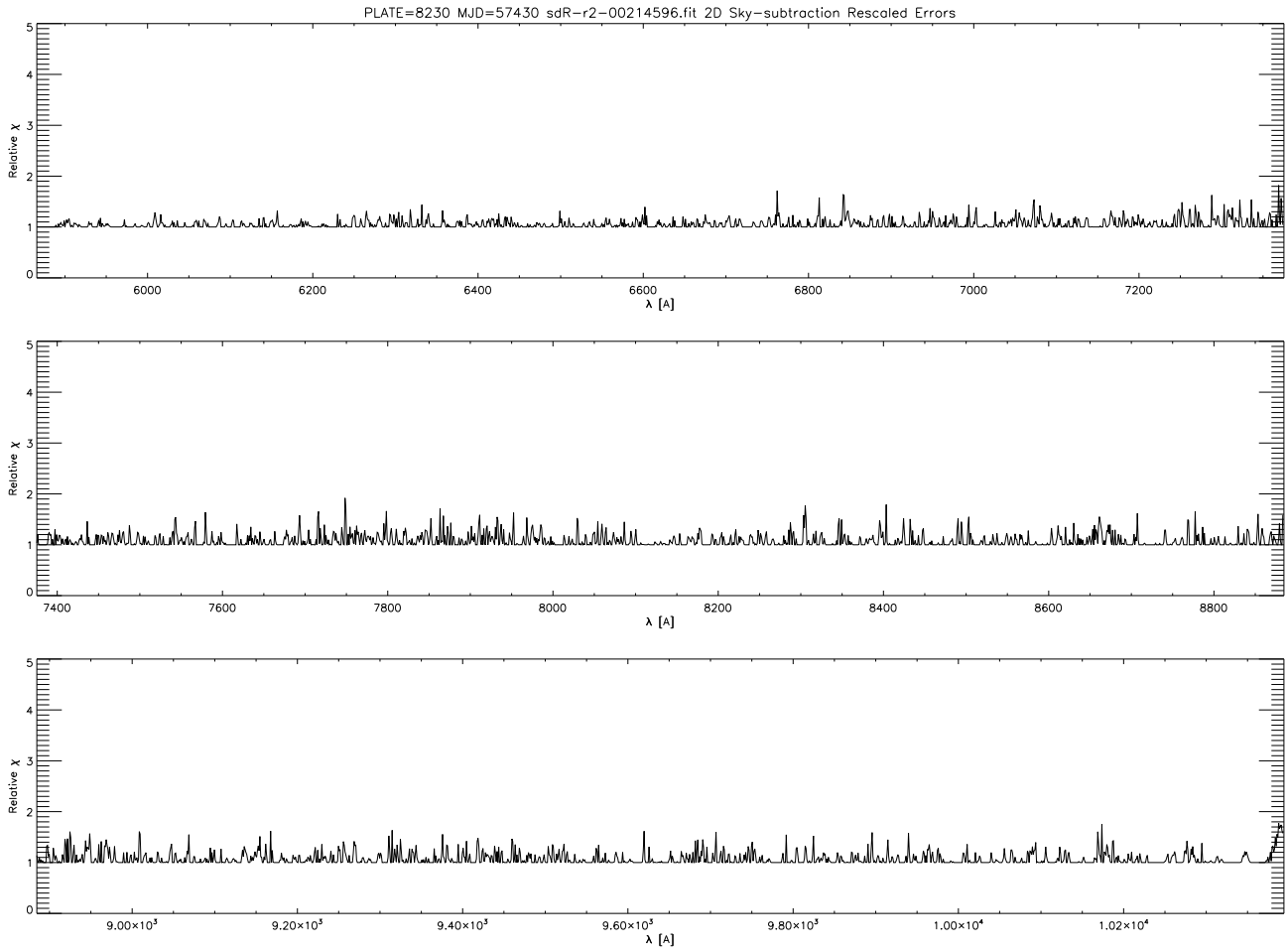

PLATE=8230 MJD=57430 sdR-r2-00214596.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
1.0
0.8
0.6
0.4
0.2
0.0
0
100
200
300
400
500

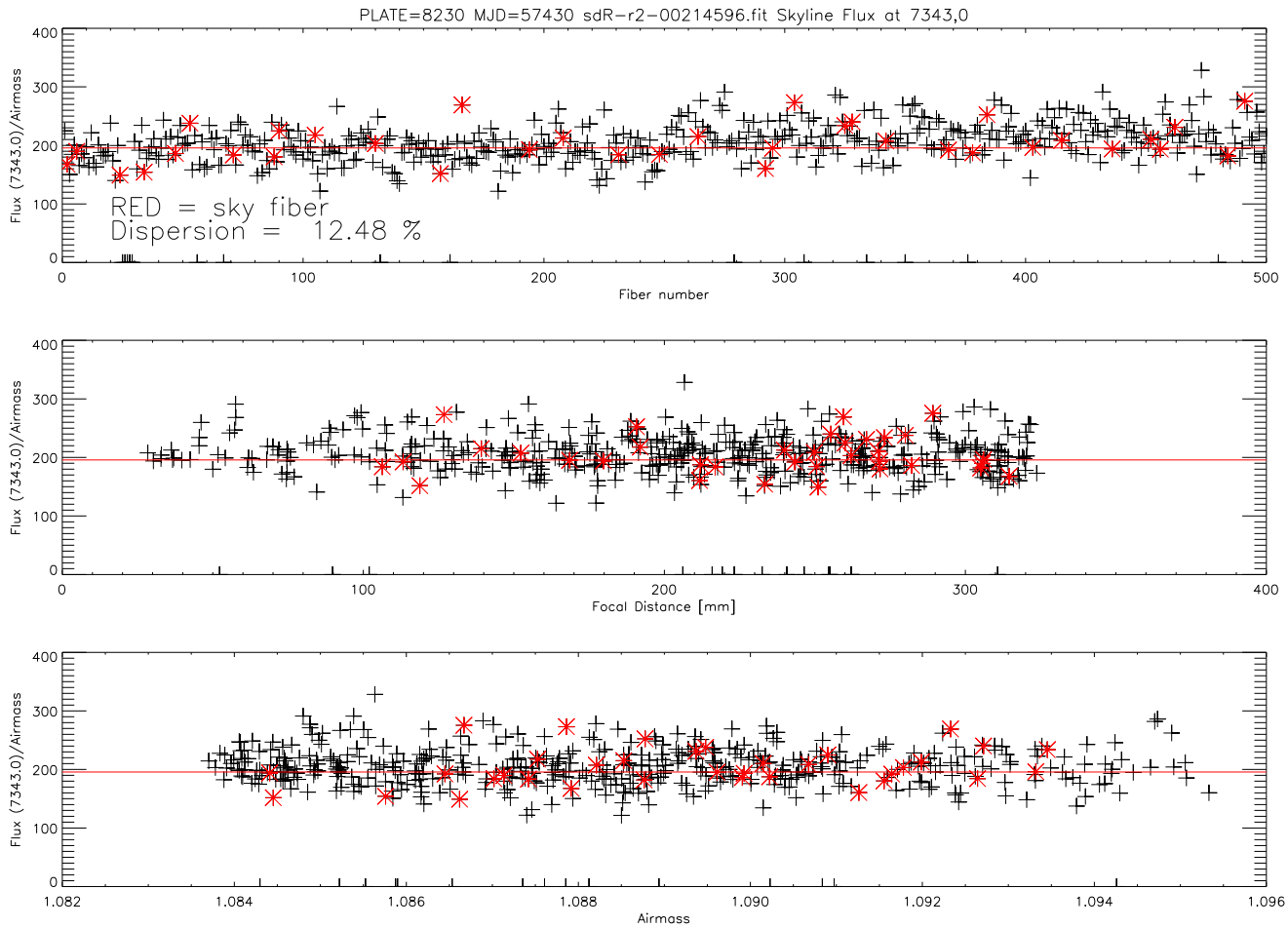
Median Sky-Sub Flux
Fiber number
1.0
0.5
0.0
−0.5
100
200
300
400
500

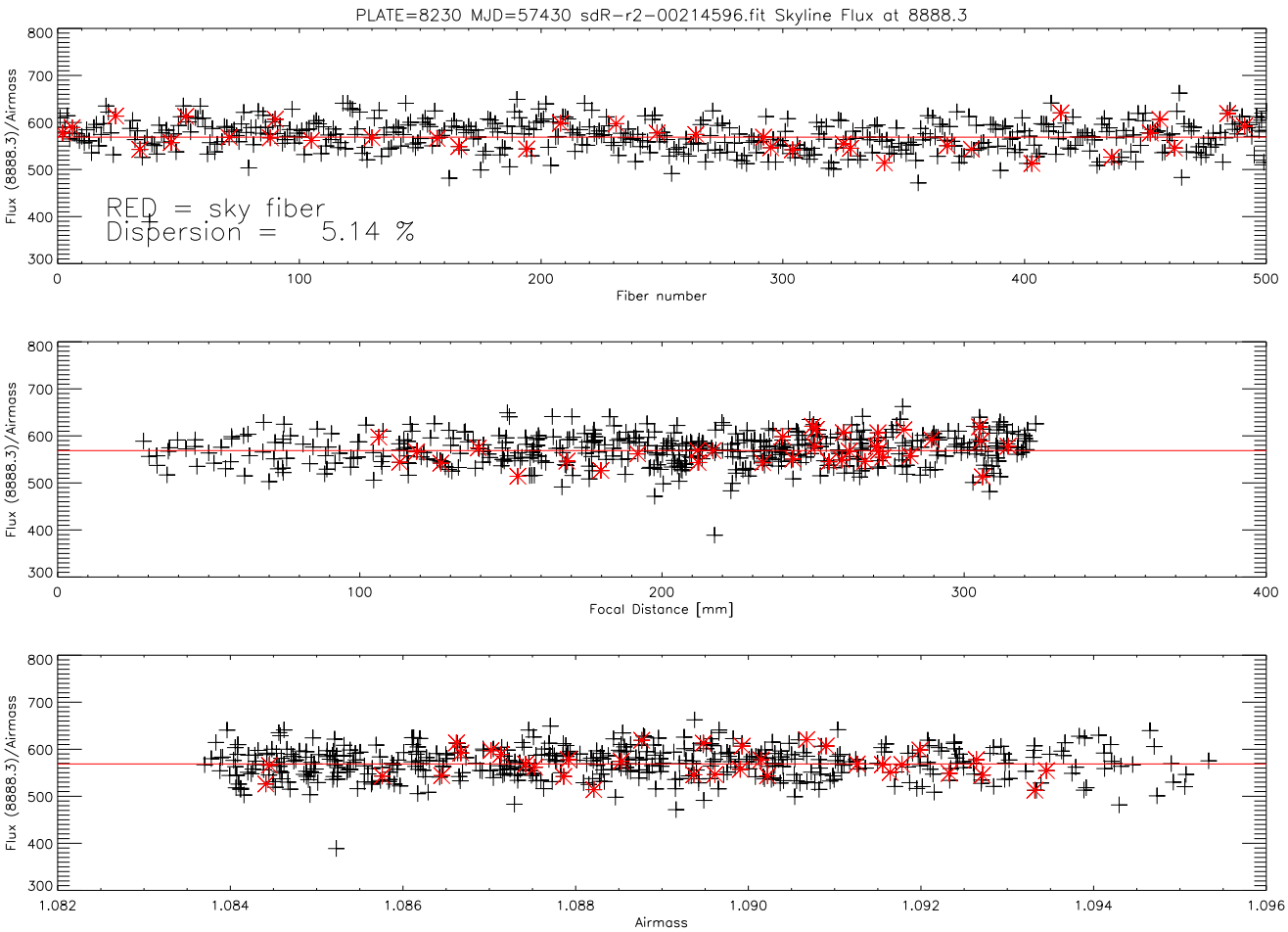

PLATE=8230 MJD=57430 sdR-r2-00214596.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
400
300
200
100
0
−100
8820
8840
8860
8880
8900
λ [A]


PLATE=8230 MJD=57430 sdR-r2-00214596.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
60
40
20
0
−20
−40
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 35




PLATE=8230 MJD=57430 sdR-r2-00214596.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 12.48 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass


PLATE=8230 MJD=57430 sdR-r2-00214596.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 5.14 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass