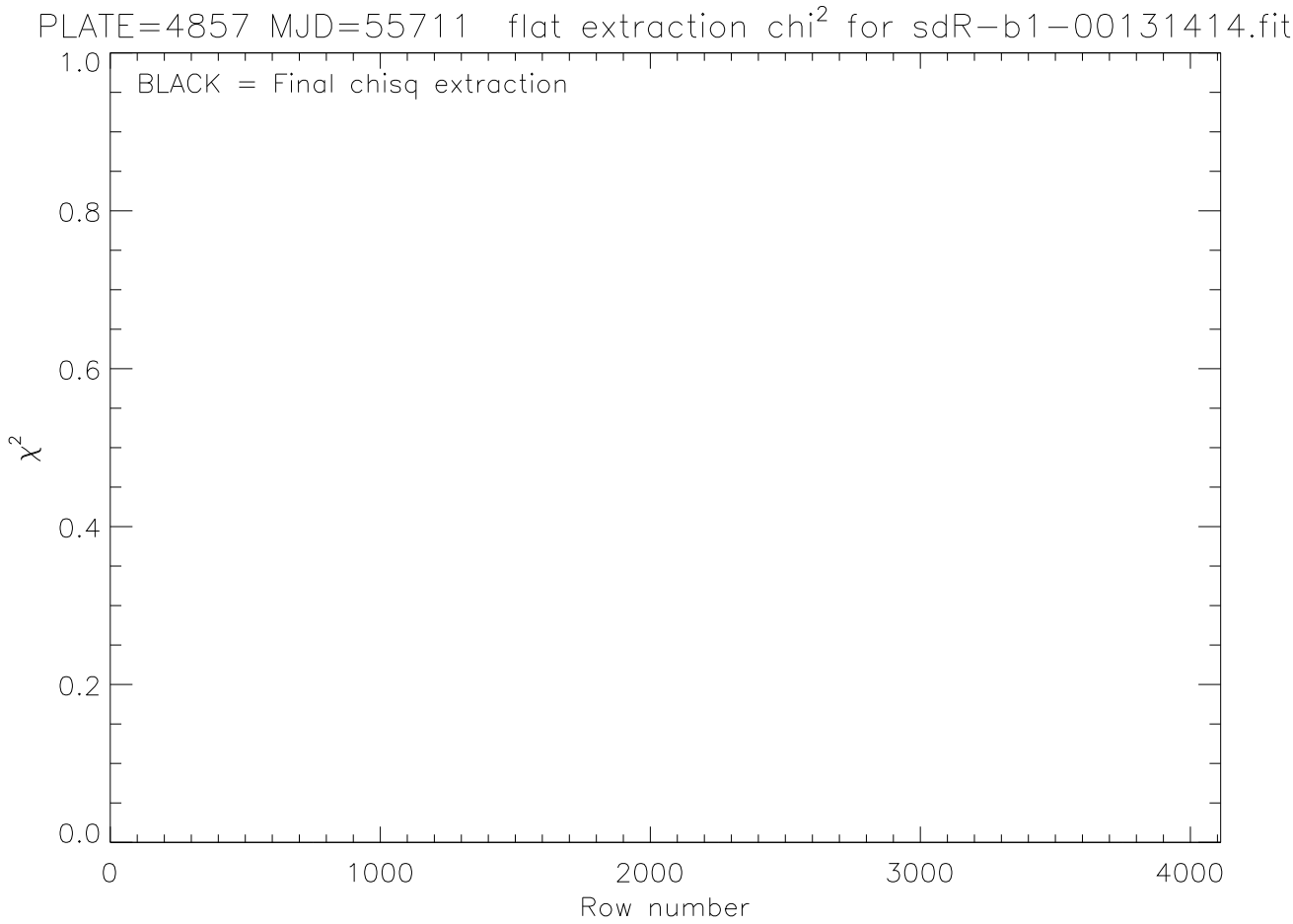
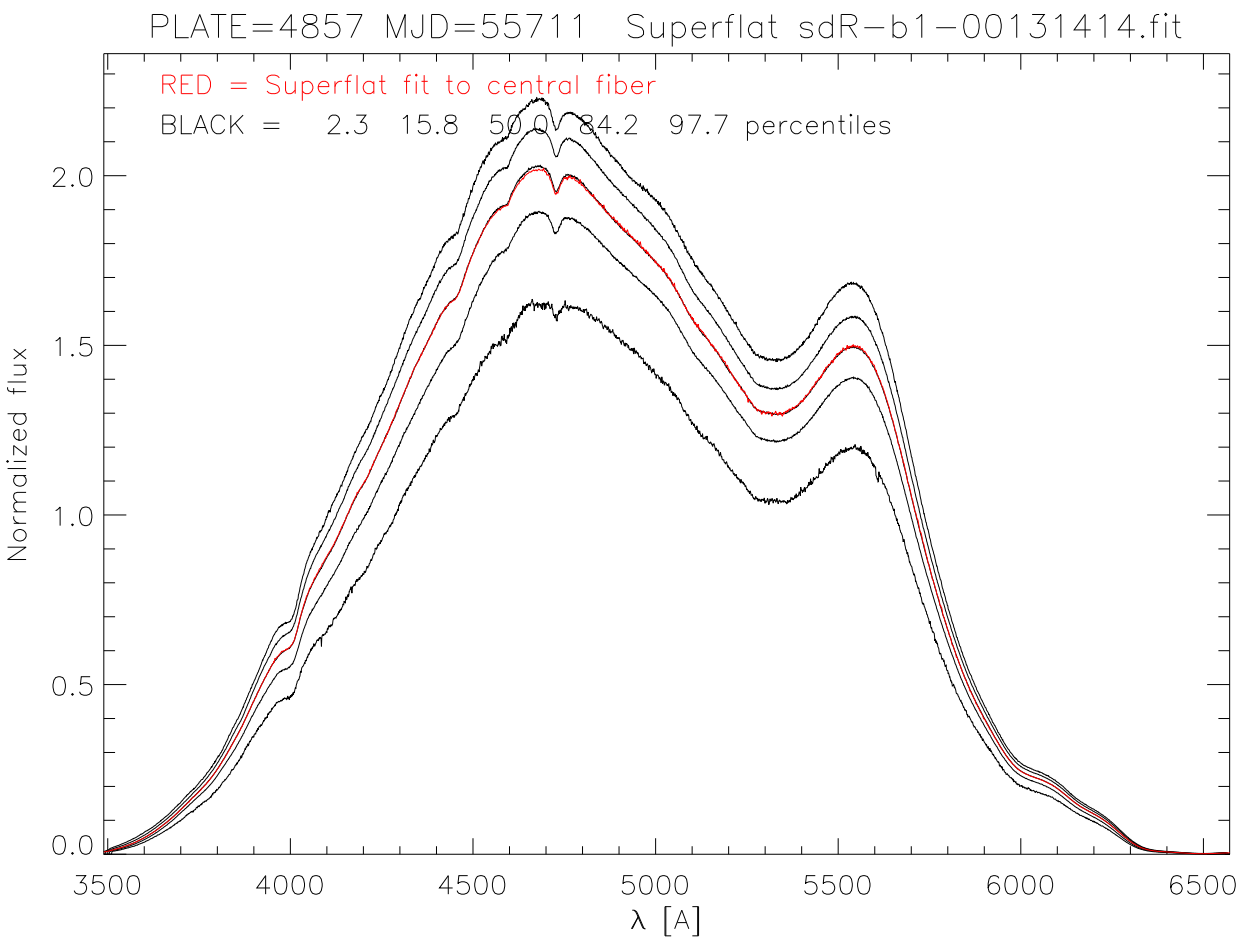
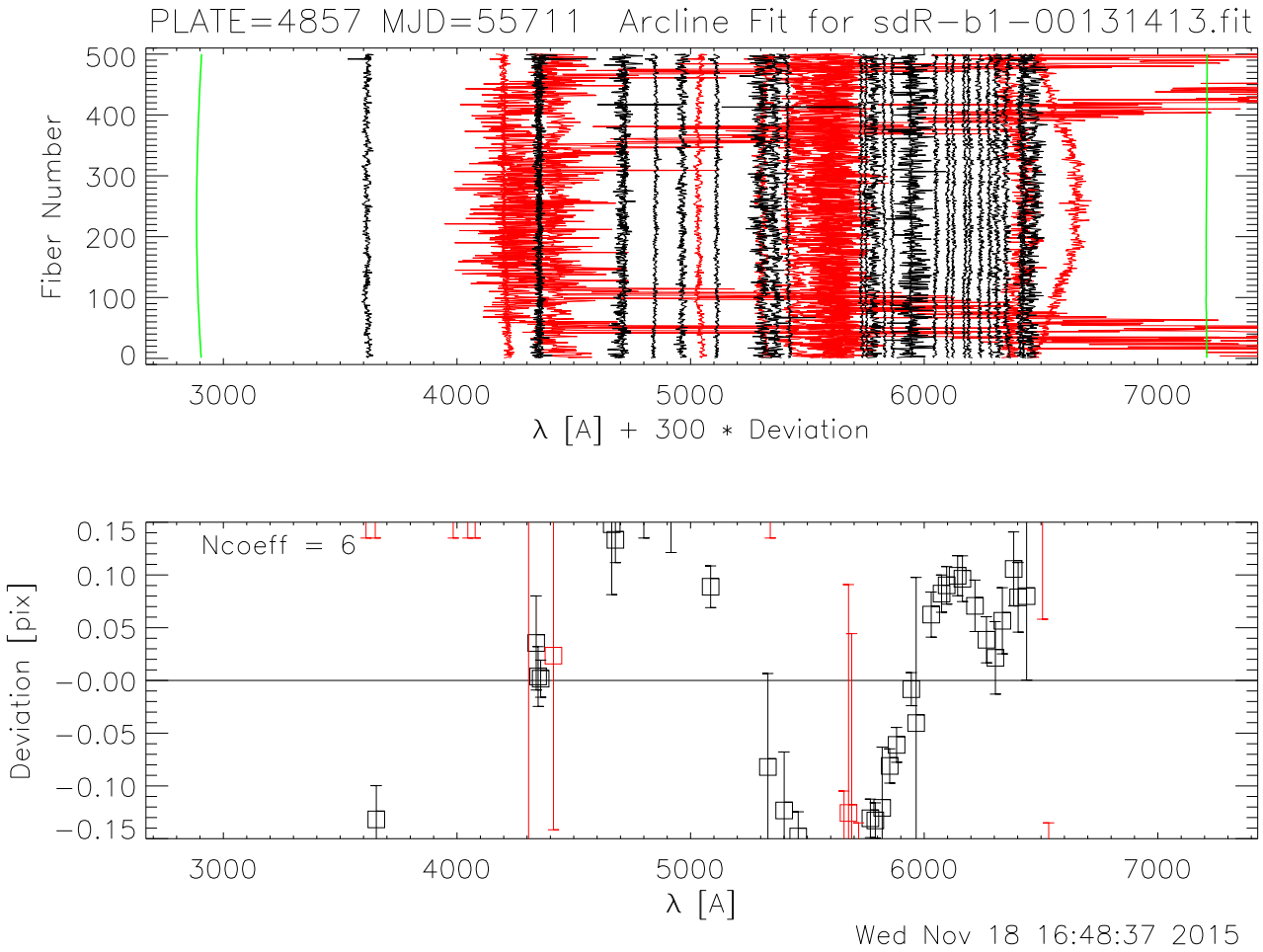
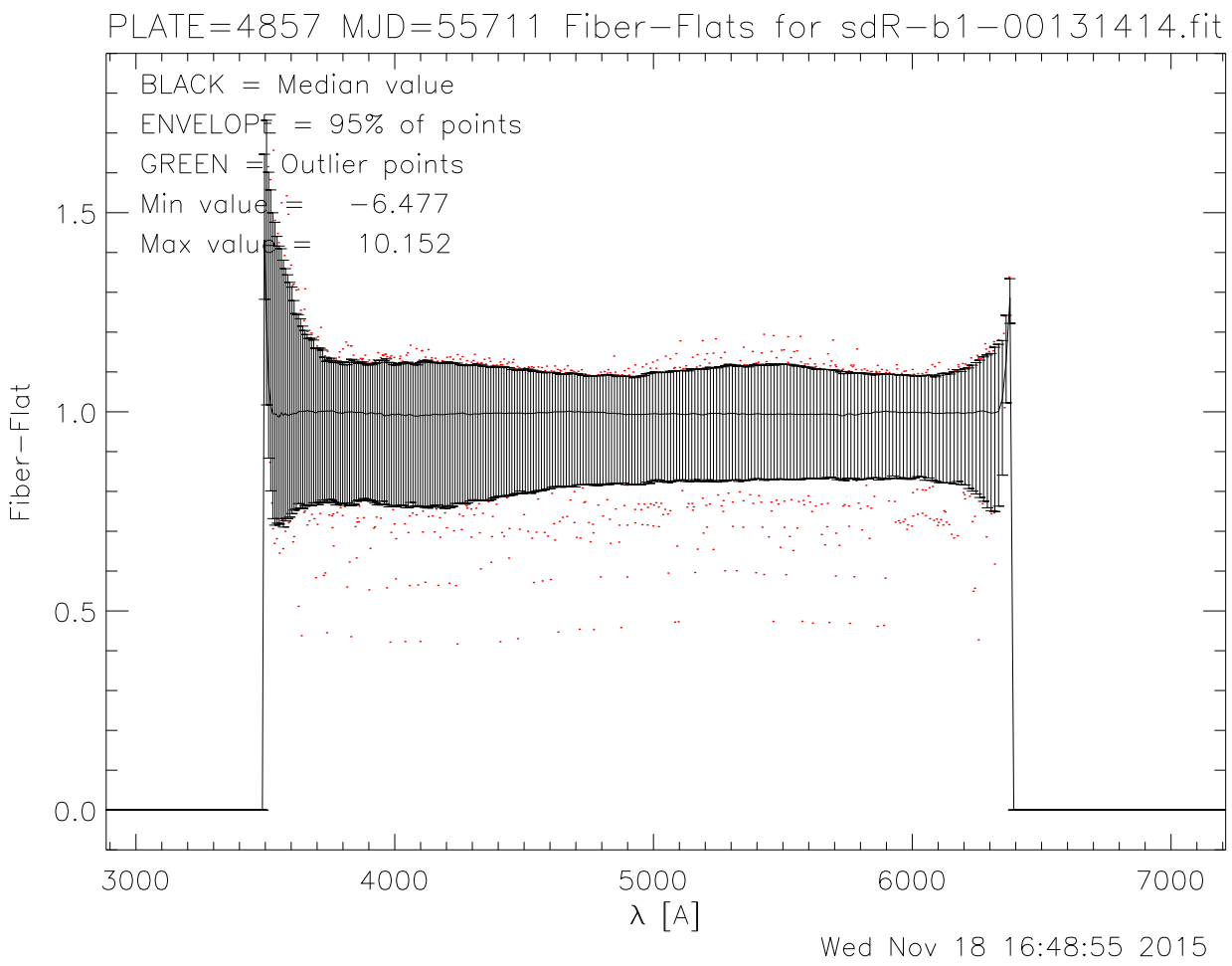
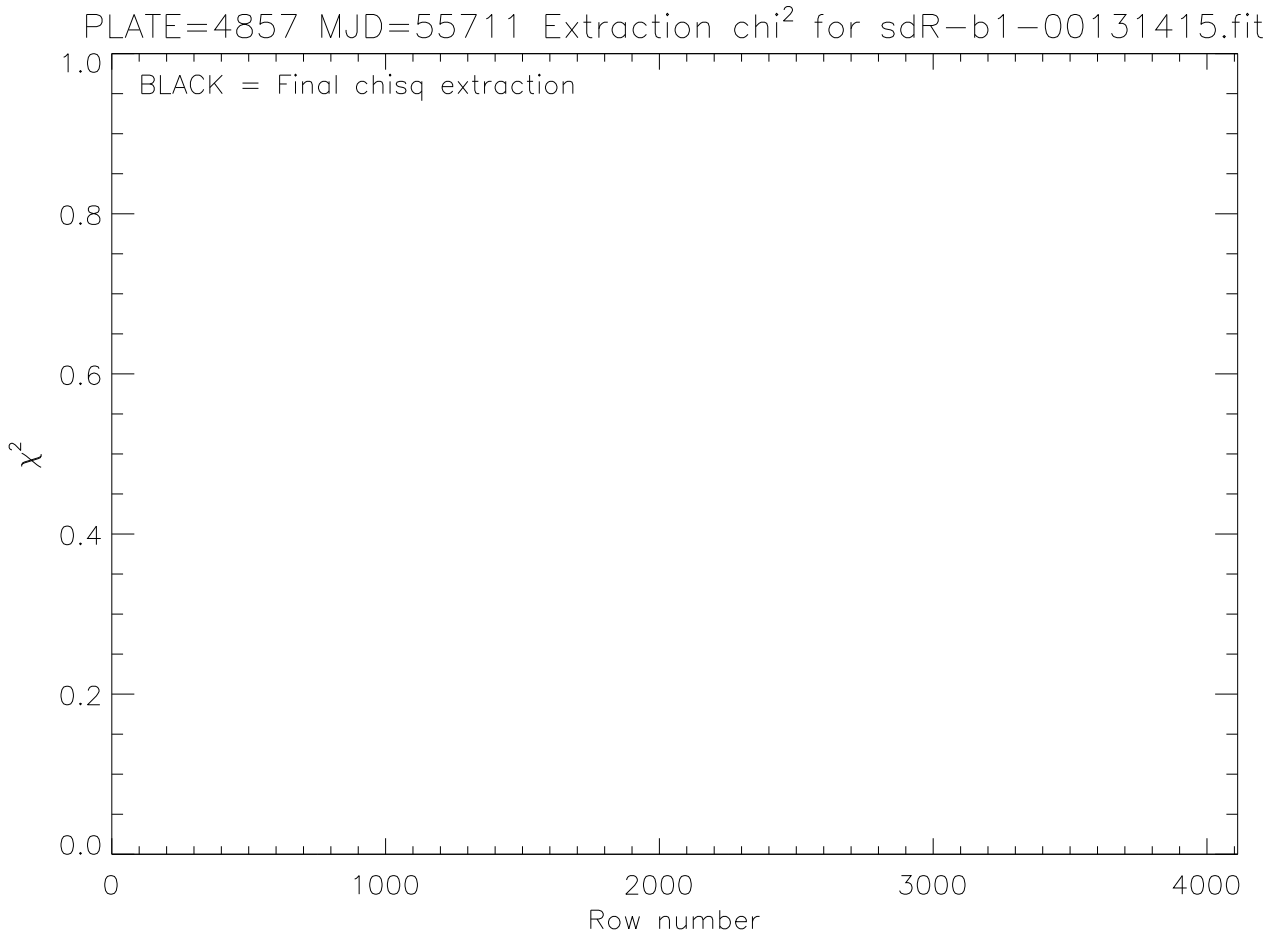
PLATE=4857 MJD=55711 Traces sdR-b1-00131414.fit

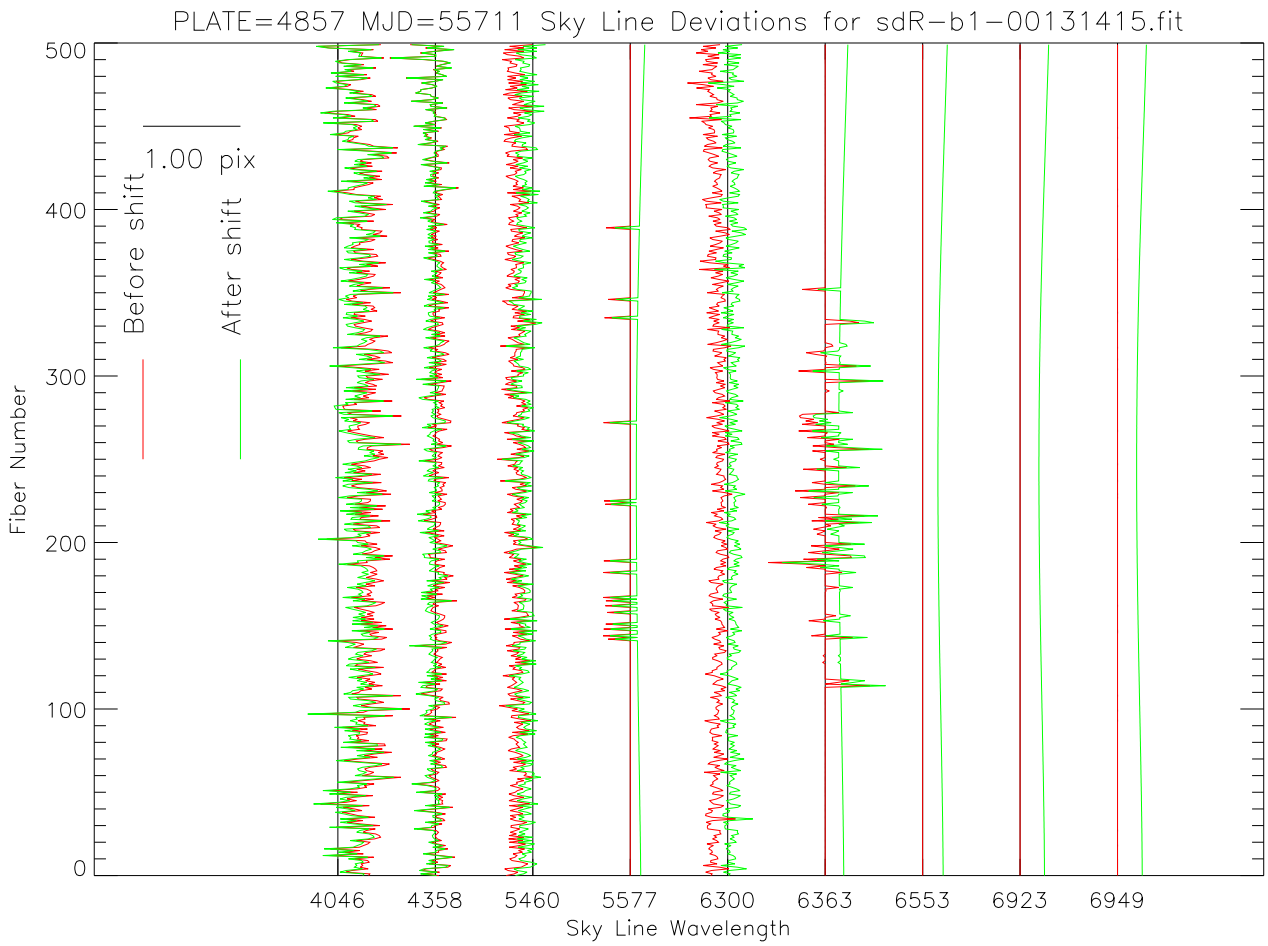

PLATE=4857 MJD=55711 flat extraction chi$^2$ for sdR−b1−00131414.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
$\chi^2$
0
1000
2000
3000
4000
Row number

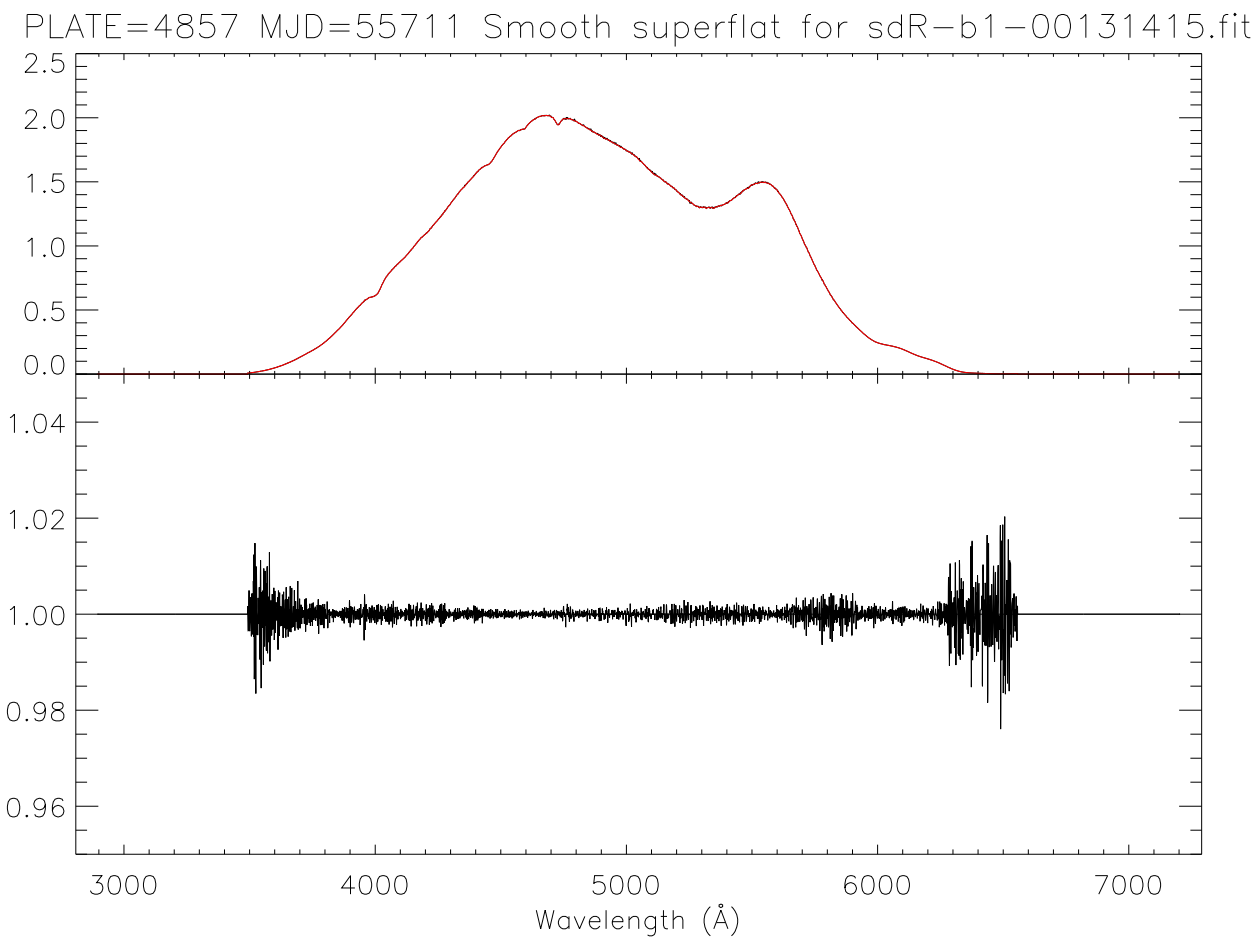

PLATE=4857 MJD=55711 Superflat sdR-b1-00131414.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
0.0
0.5
1.0
1.5
2.0
3500
4000
4500
5000
5500
6000
6500
λ [A]

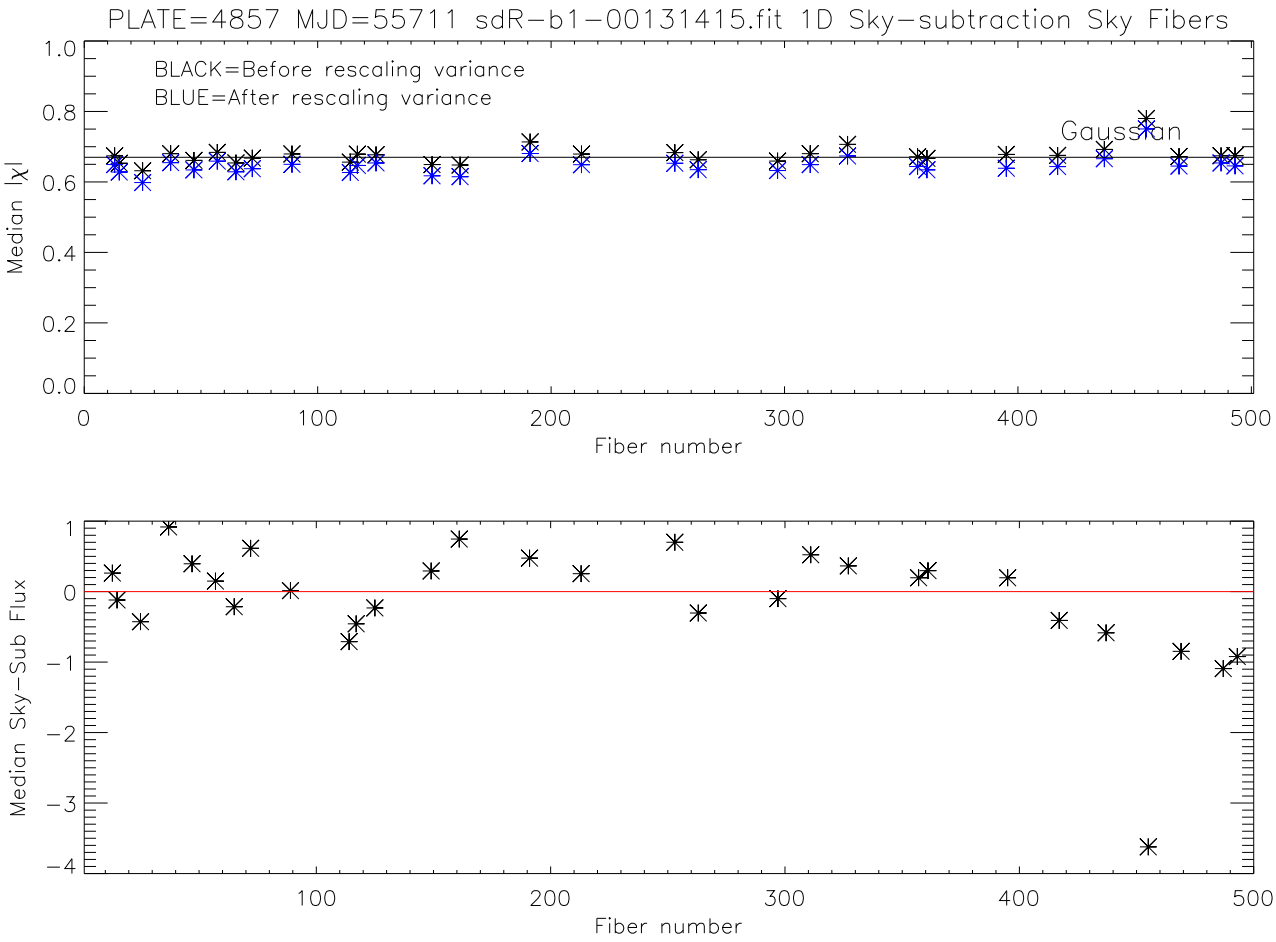

PLATE=4857 MJD=55711 Arcline Fit for sdR-b1-00131413.fit
Fiber Number
500
400
300
200
100
0
3000
4000
5000
6000
7000
λ [A] + 300 * Deviation
Ncoeff = 6
Deviation [pix]
0.15
0.10
0.05
−0.00
−0.05
−0.10
−0.15
3000
4000
5000
6000
7000
λ [A]
Wed Nov 18 16:48:37 2015

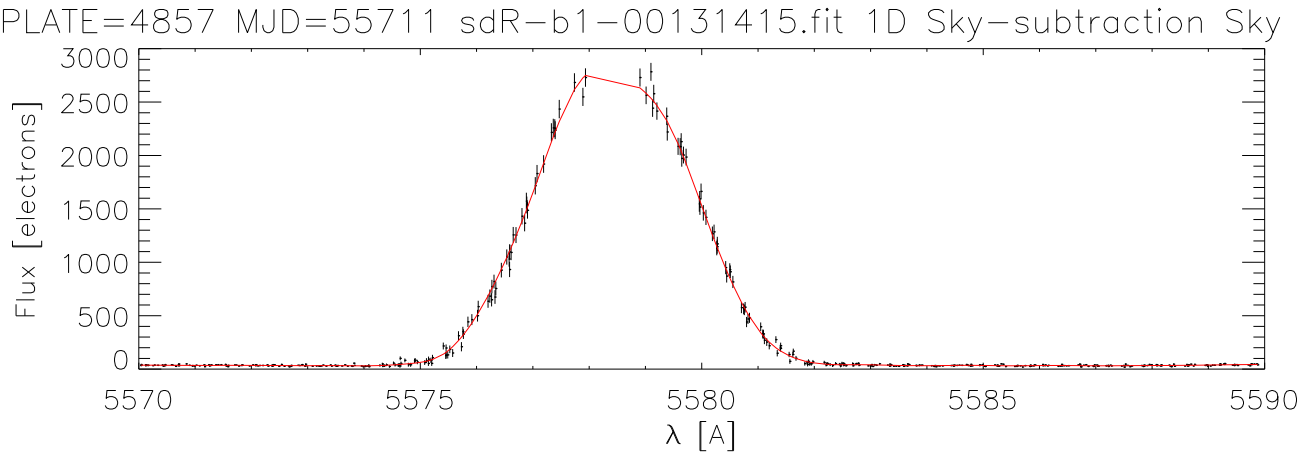

PLATE=4857 MJD=55711 Fiber-Flats for sdR-b1-00131414.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = -6.477
Max value = 10.152
Fiber-Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Wed Nov 18 16:48:55 2015

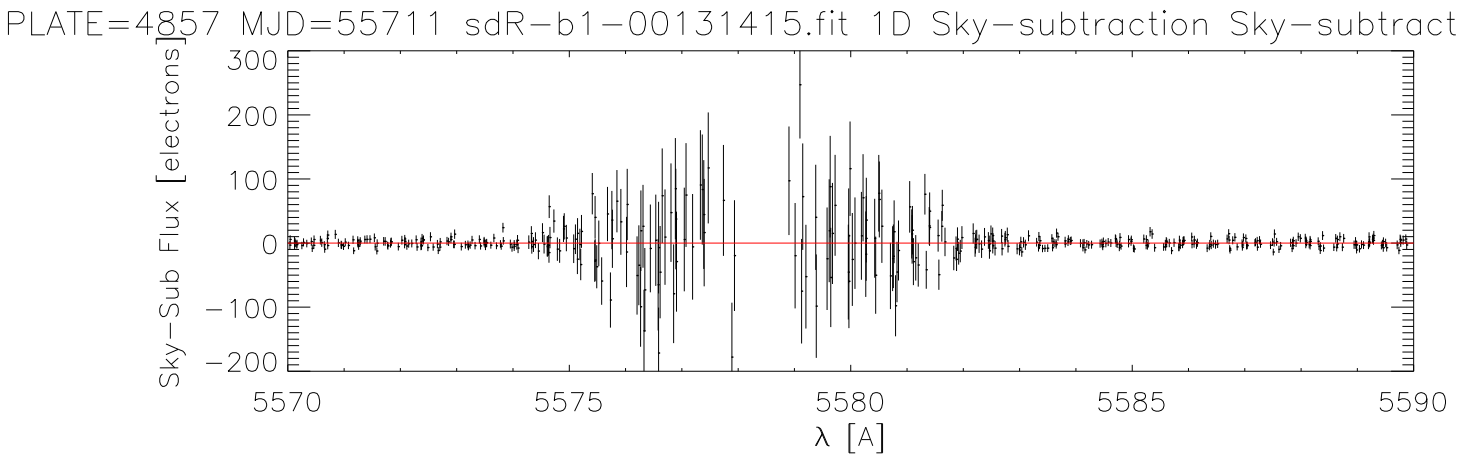

PLATE=4857 MJD=55711 Extraction chi$^2$ for sdR−b1−00131415.fit
BLACK = Final chisq extraction
$\chi^2$
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=4857 MJD=55711 Sky Line Deviations for sdR-b1-00131415.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

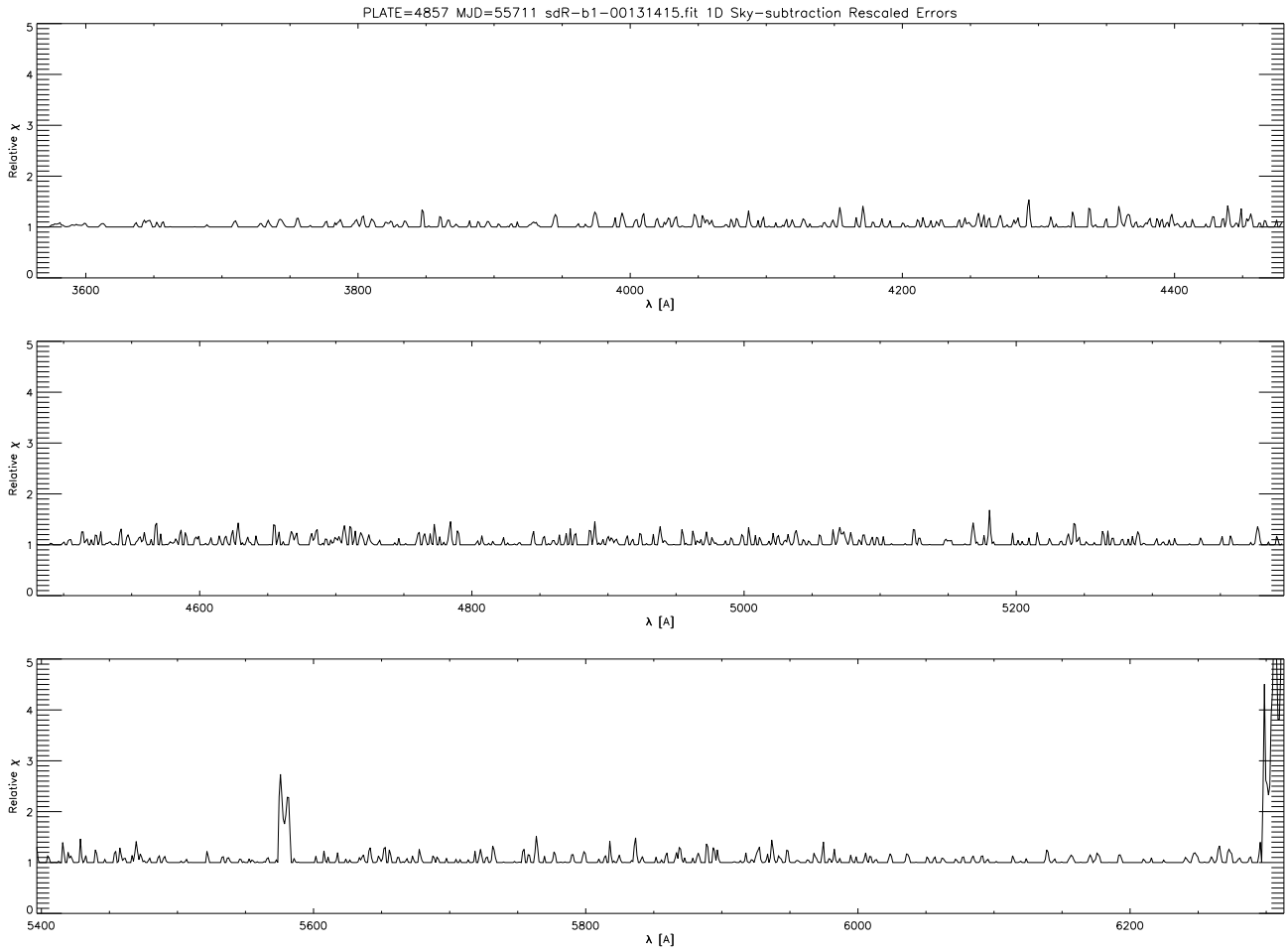

PLATE=4857 MJD=55711 Smooth superflat for sdR-b1-00131415.fit
2.5
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

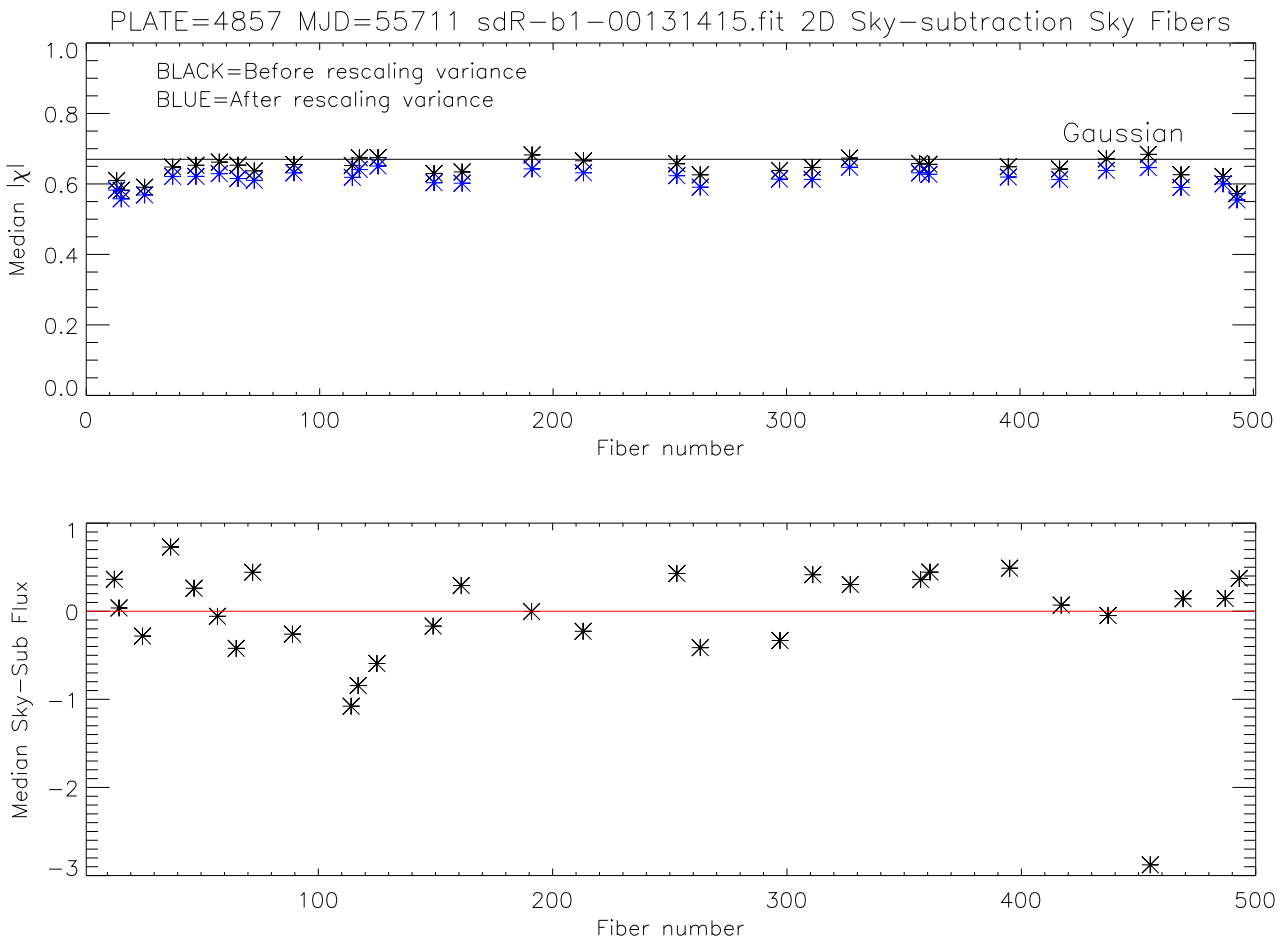

PLATE=4857 MJD=55711 sdR-b1-00131415.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

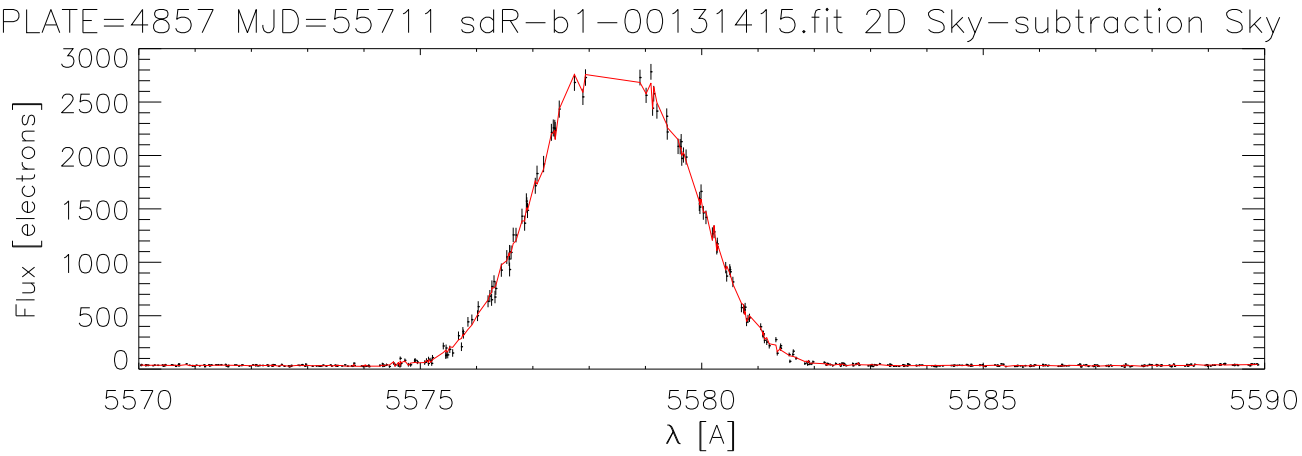

PLATE=4857 MJD=55711 sdR-b1-00131415.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

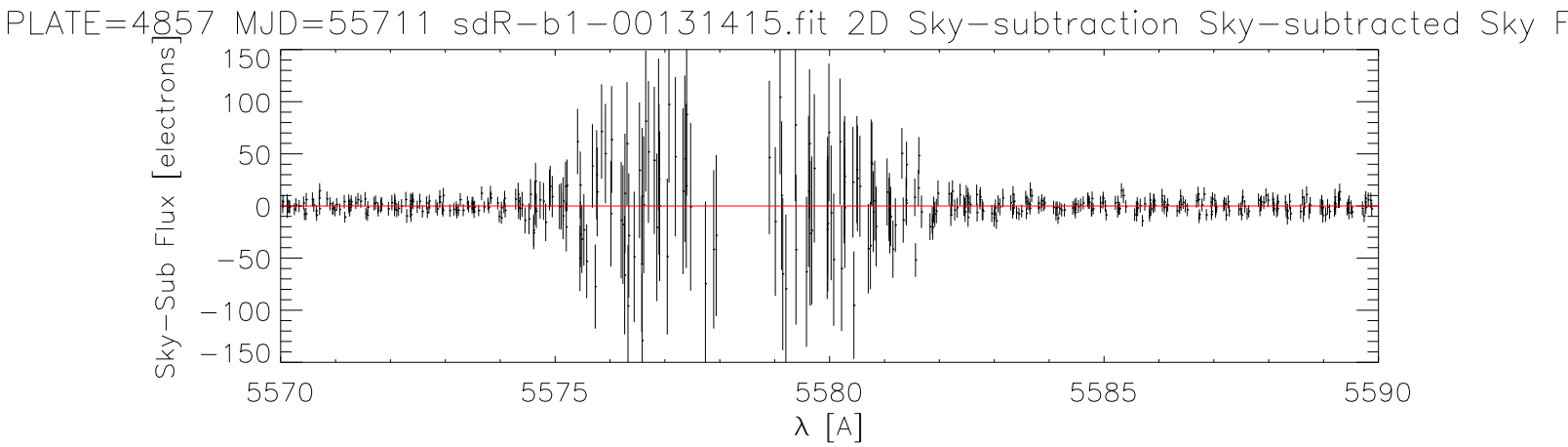

PLATE=4857 MJD=55711 sdR-b1-00131415.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 30

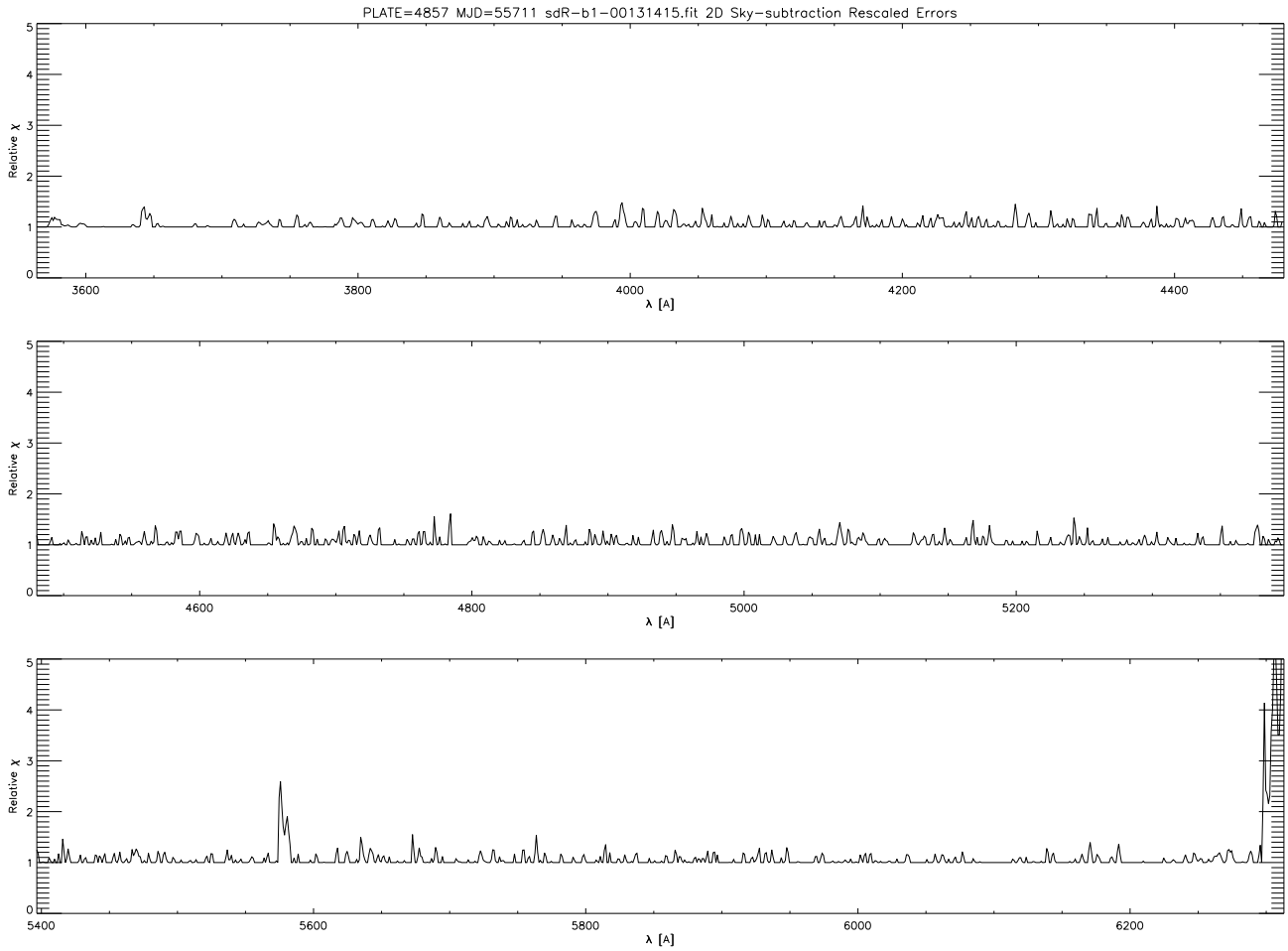


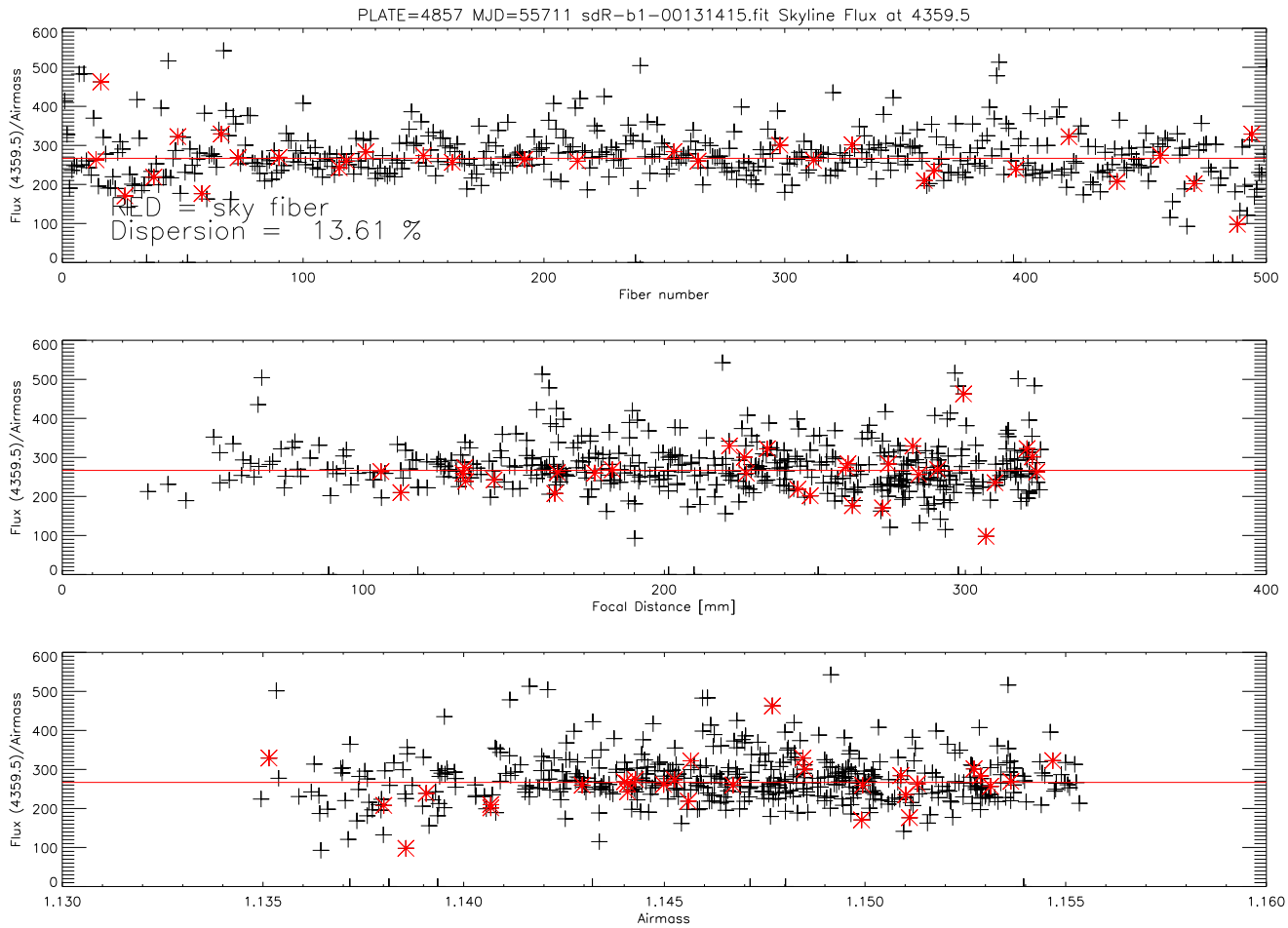

PLATE=4857 MJD=55711 sdR-b1-00131415.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

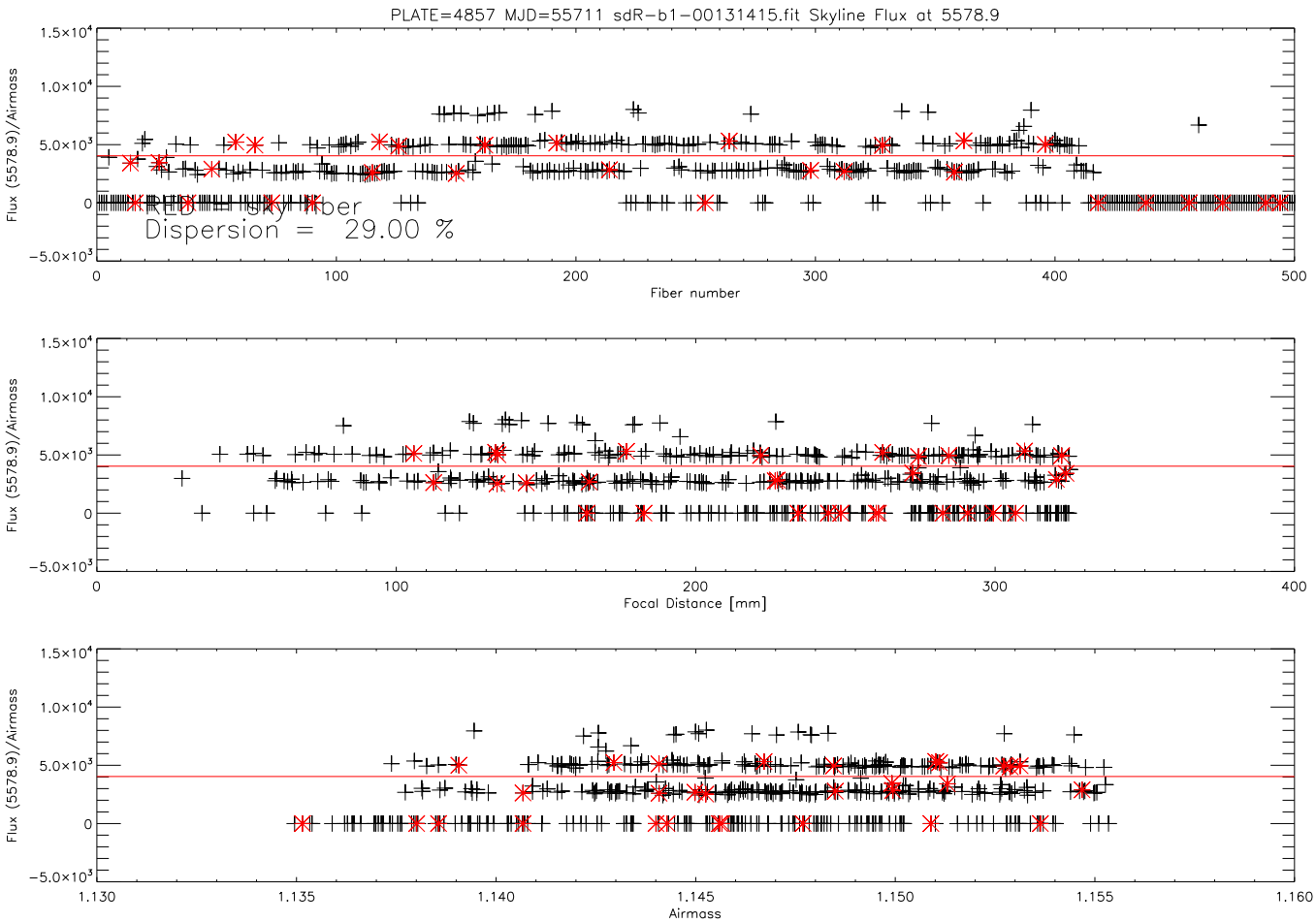

PLATE=4857 MJD=55711 sdR-b1-00131415.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

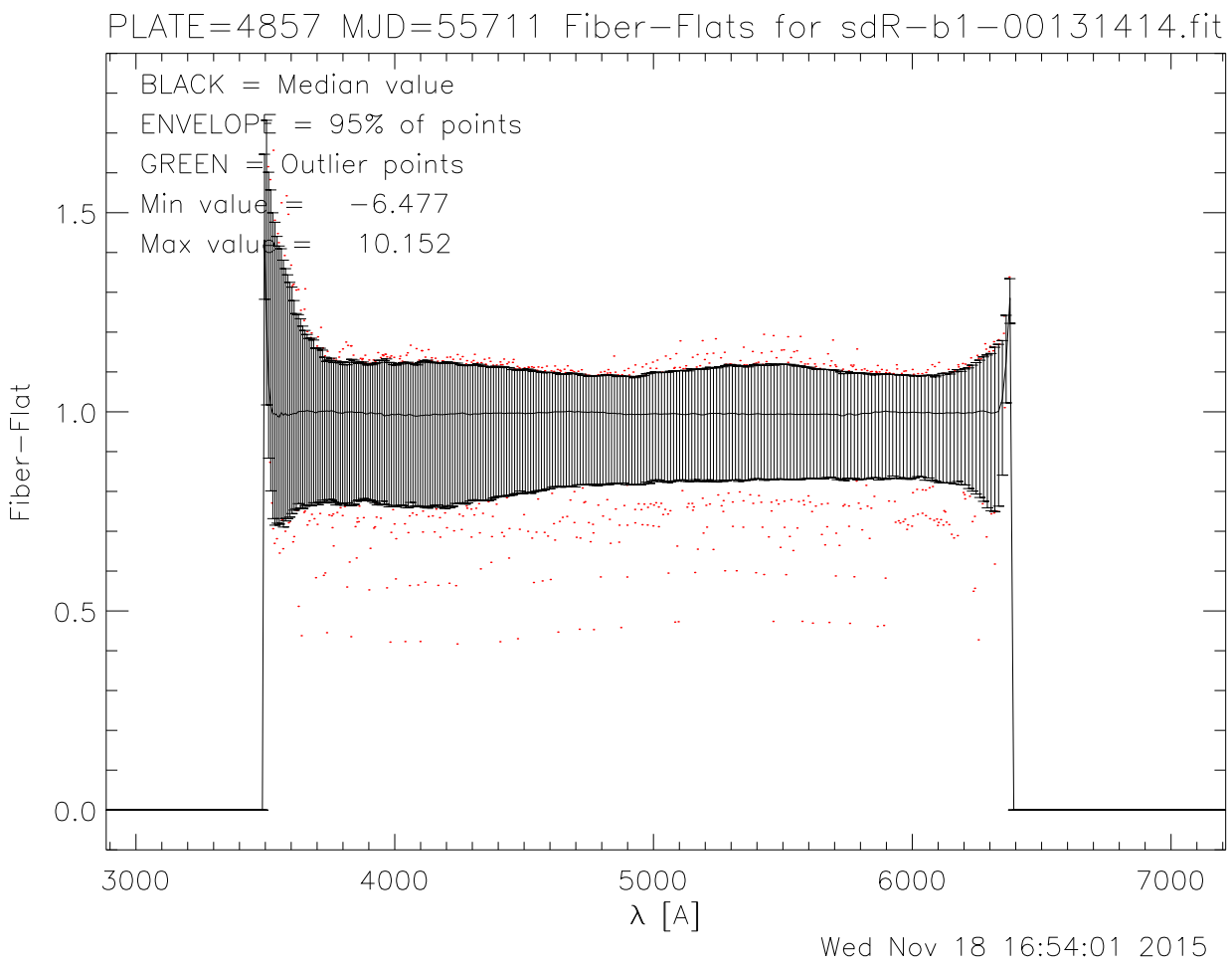

PLATE=4857 MJD=55711 sdR-b1-00131415.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
5570
5575
5580
5585
5590
λ [A]

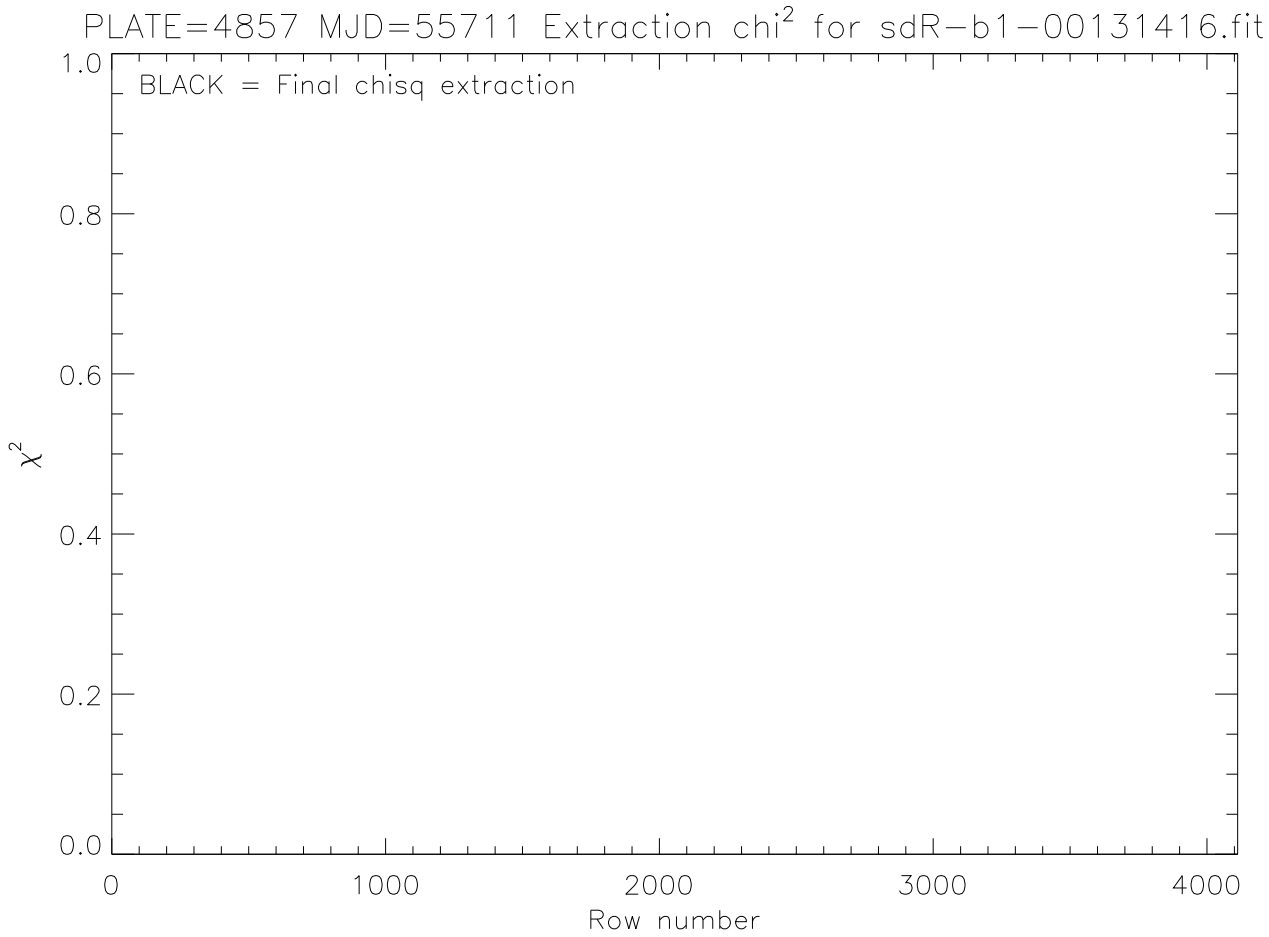
Number of sky fibers = 30

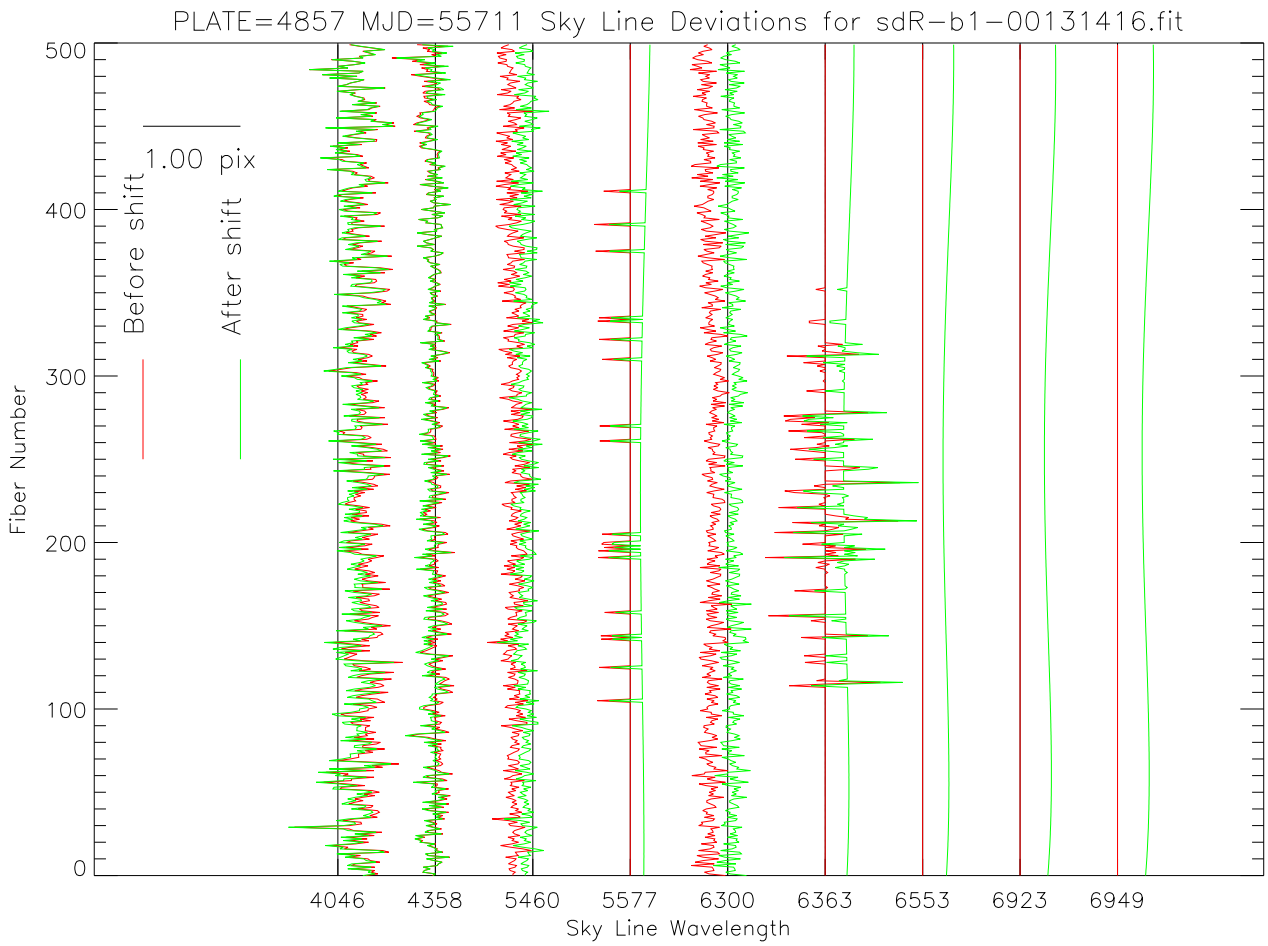


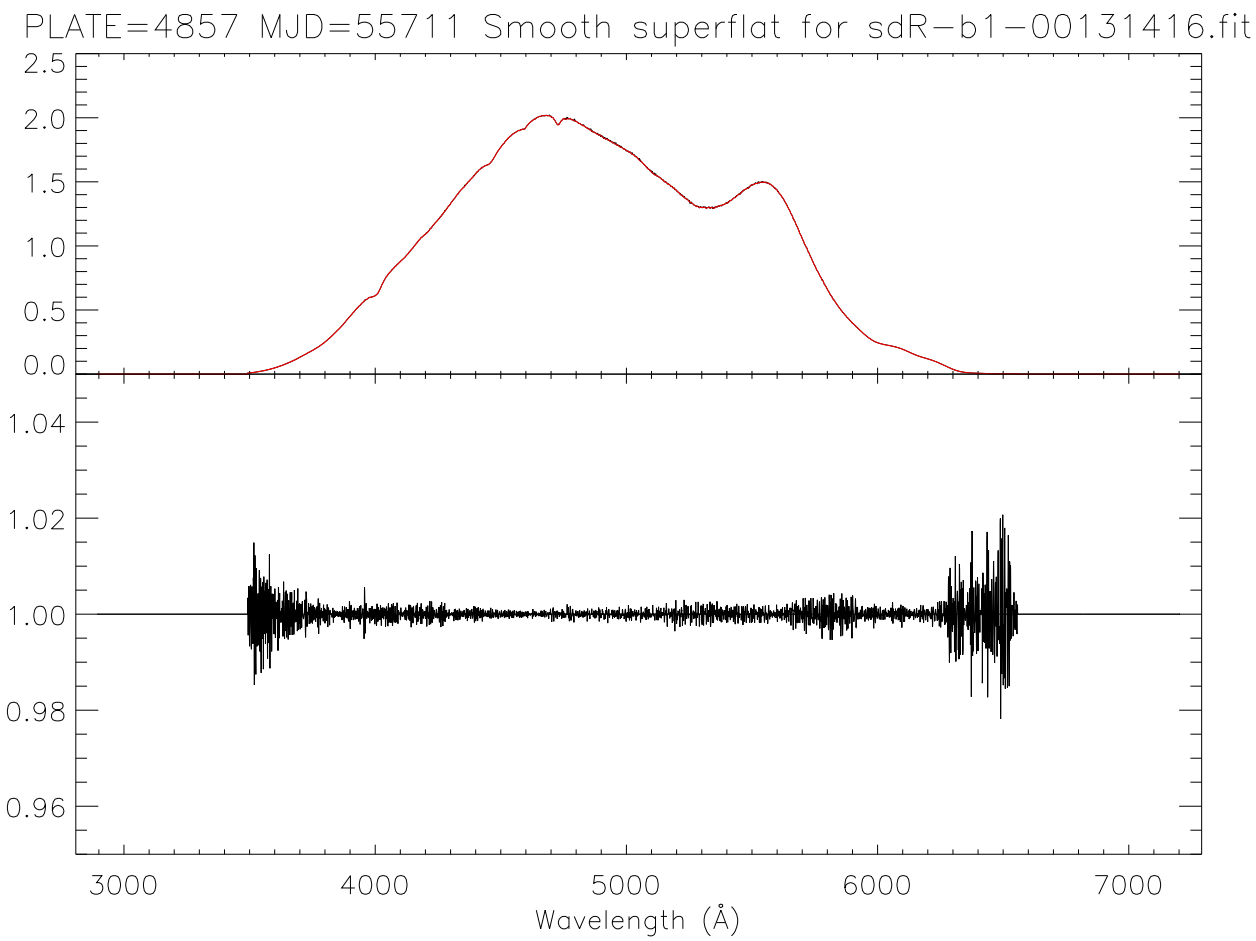

PLATE=4857 MJD=55711 sdR-b1-00131415.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 13.61 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

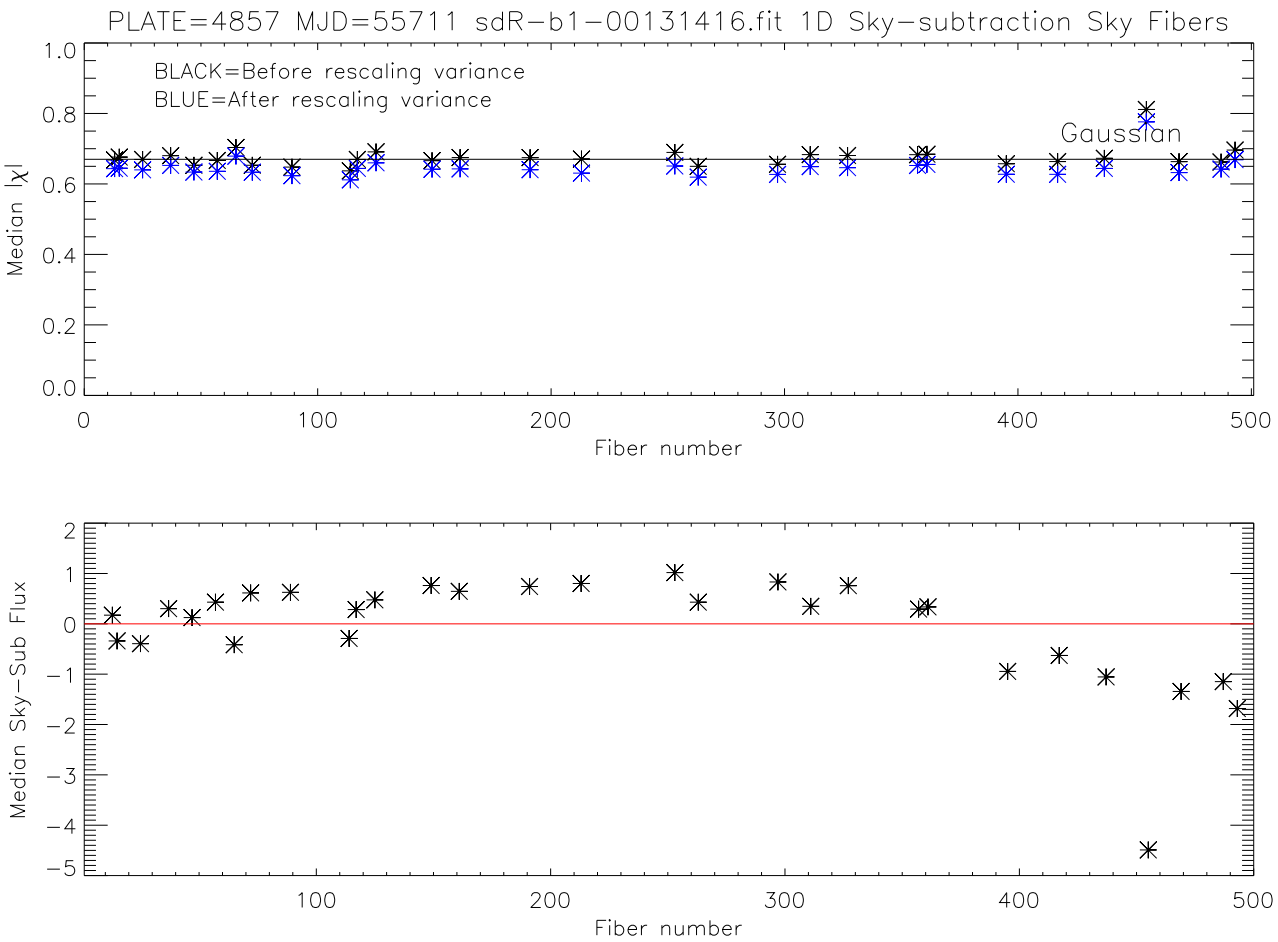

PLATE=4857 MJD=55711 sdR-b1-00131415.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
Red Sky Fiber
Dispersion = 29.00 %
Focal Distance [mm]
Airmass

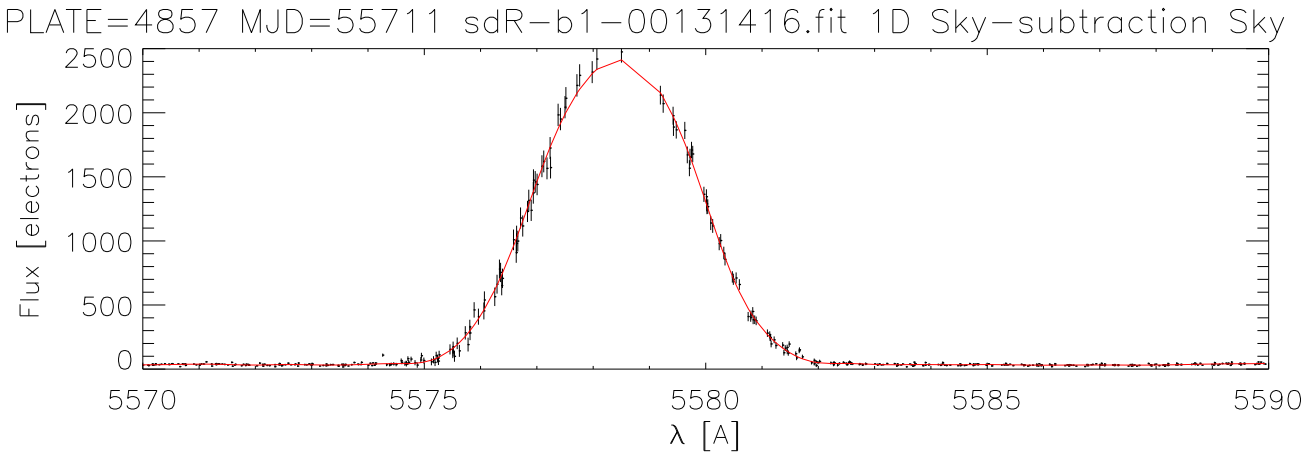

PLATE=4857 MJD=55711 Fiber−Flats for sdR−b1−00131414.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −6.477
Max value = 10.152
Fiber−Flat
0.0
0.5
1.0
1.5
3000
4000
5000
6000
7000
λ [A]
Wed Nov 18 16:54:01 2015

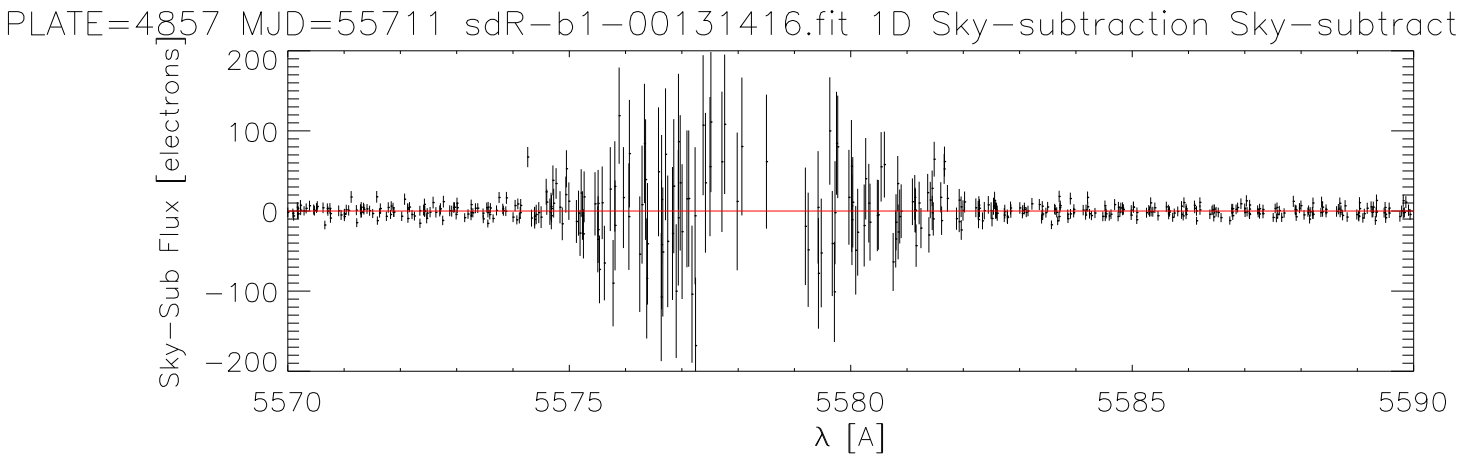

PLATE=4857 MJD=55711 Extraction chi$^2$ for sdR−b1−00131416.fit
BLACK = Final chisq extraction
$\chi^2$
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=4857 MJD=55711 Sky Line Deviations for sdR-b1-00131416.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

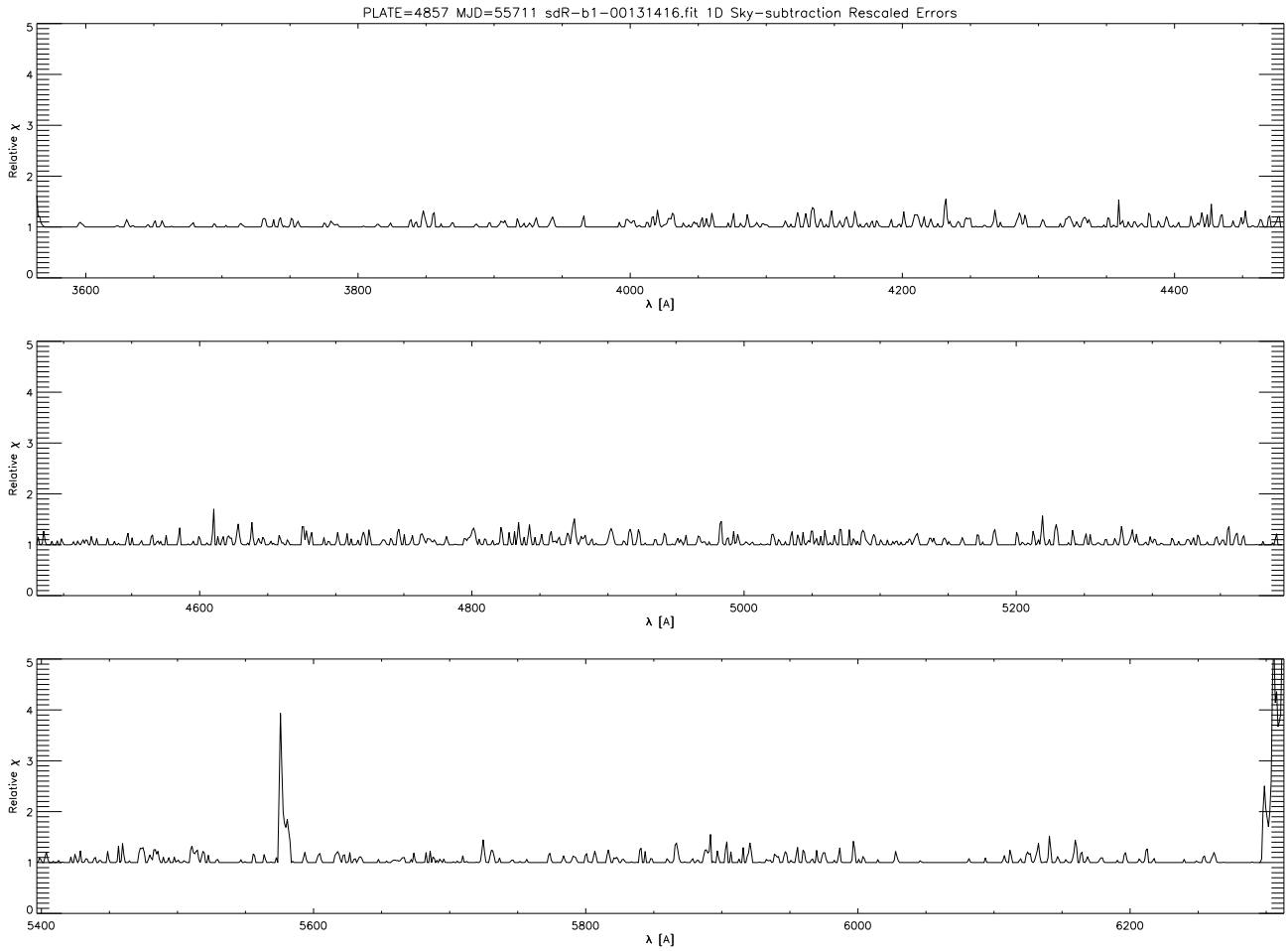

PLATE=4857 MJD=55711 Smooth superflat for sdR-b1-00131416.fit
2.5
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

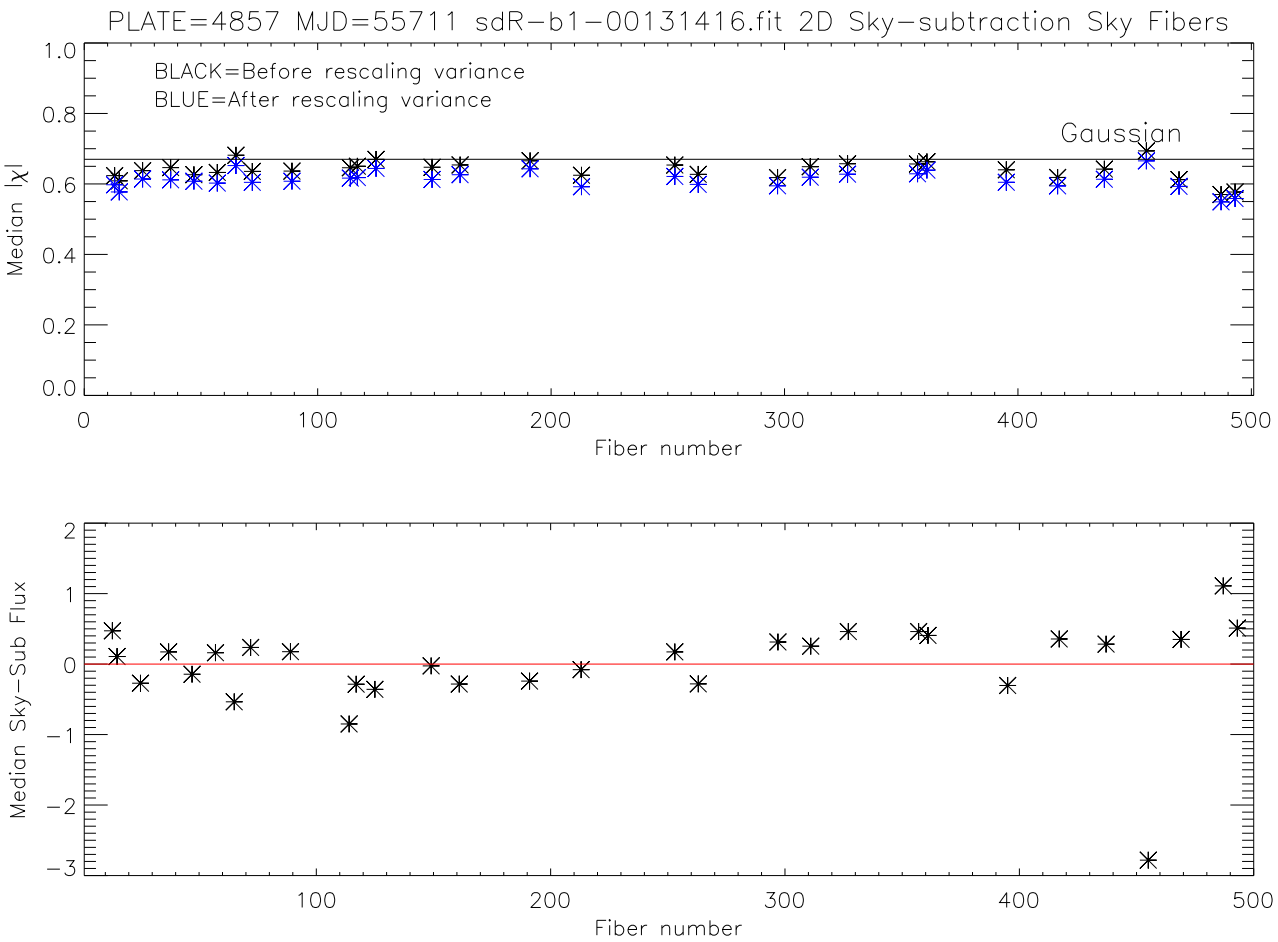

PLATE=4857 MJD=55711 sdR-b1-00131416.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

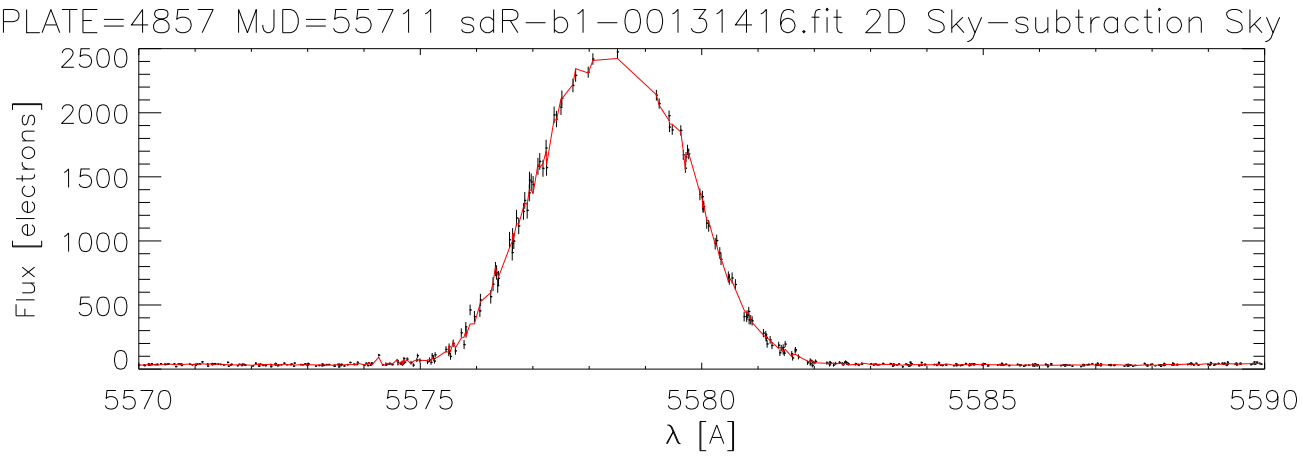

PLATE=4857 MJD=55711 sdR-b1-00131416.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

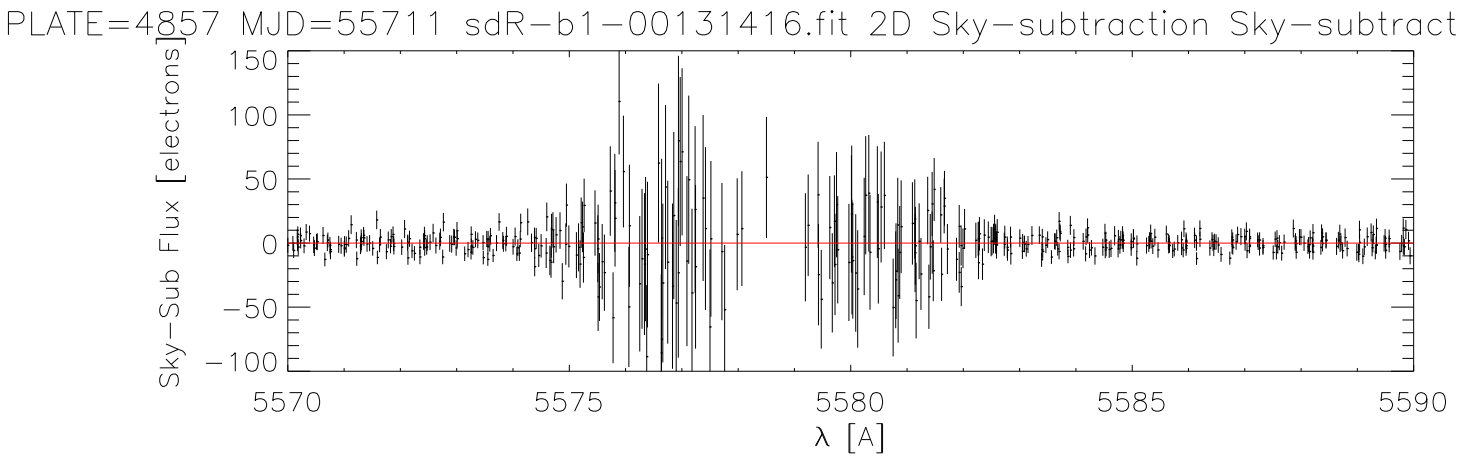

PLATE=4857 MJD=55711 sdR-b1-00131416.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 30

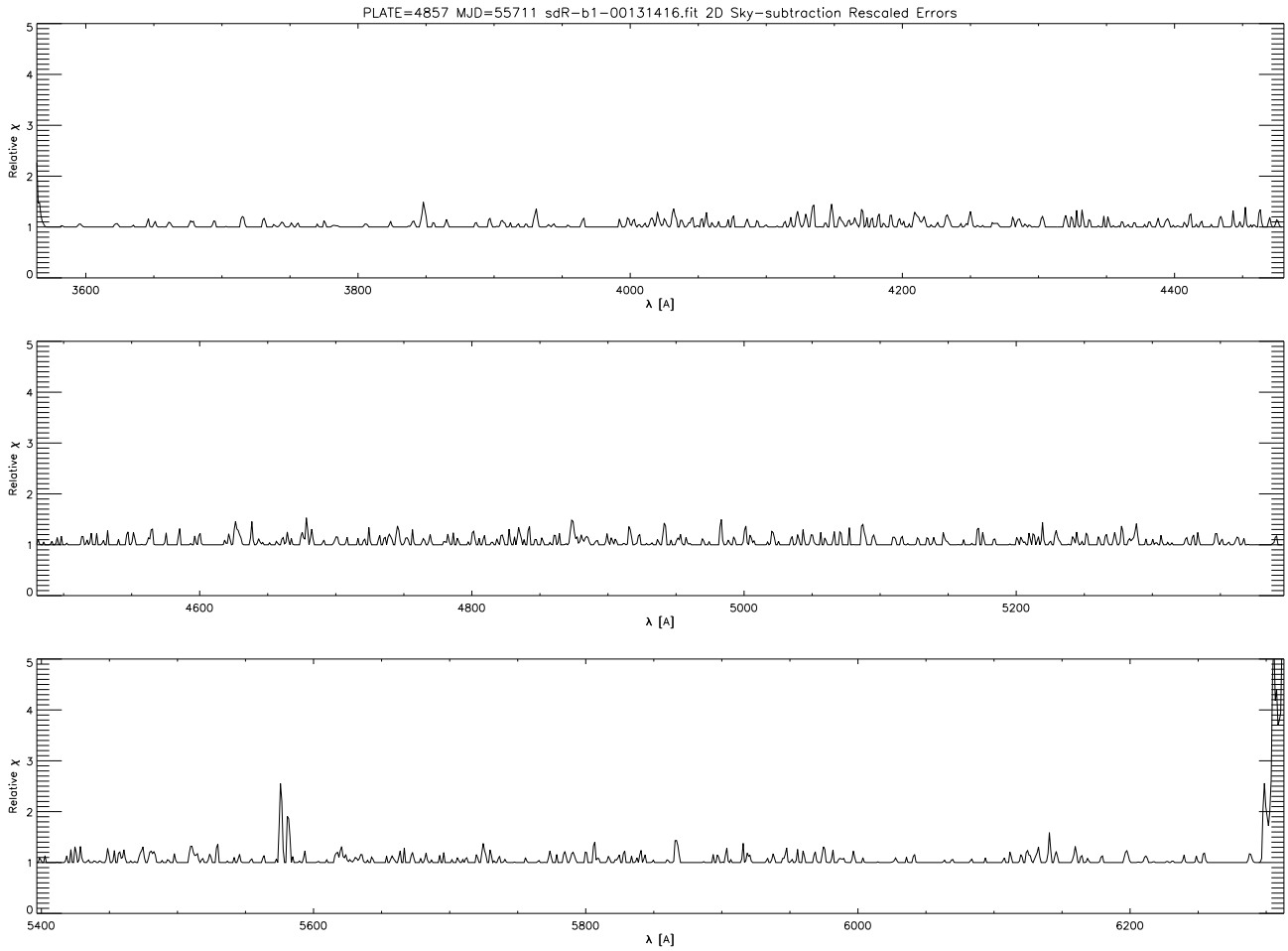


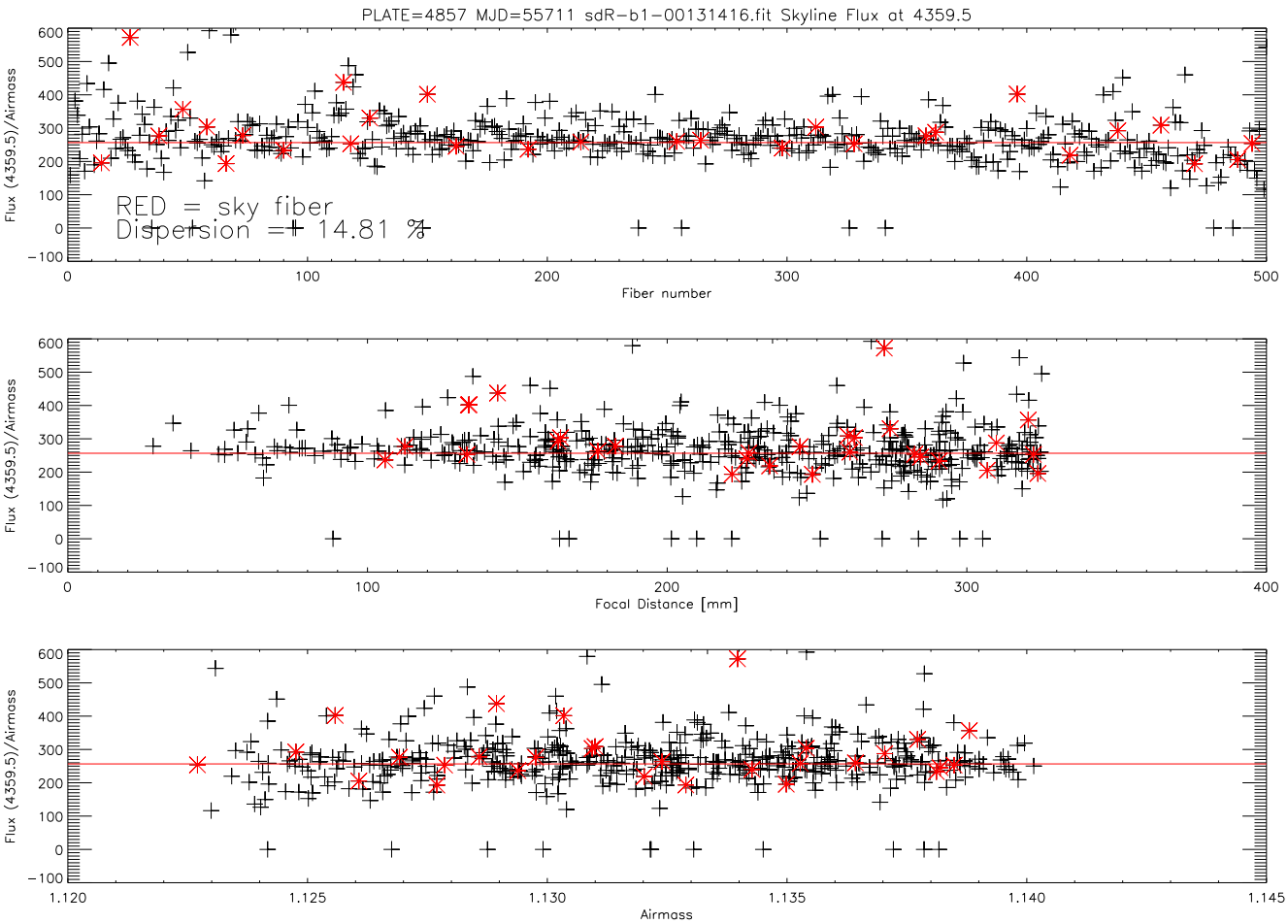

PLATE=4857 MJD=55711 sdR-b1-00131416.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

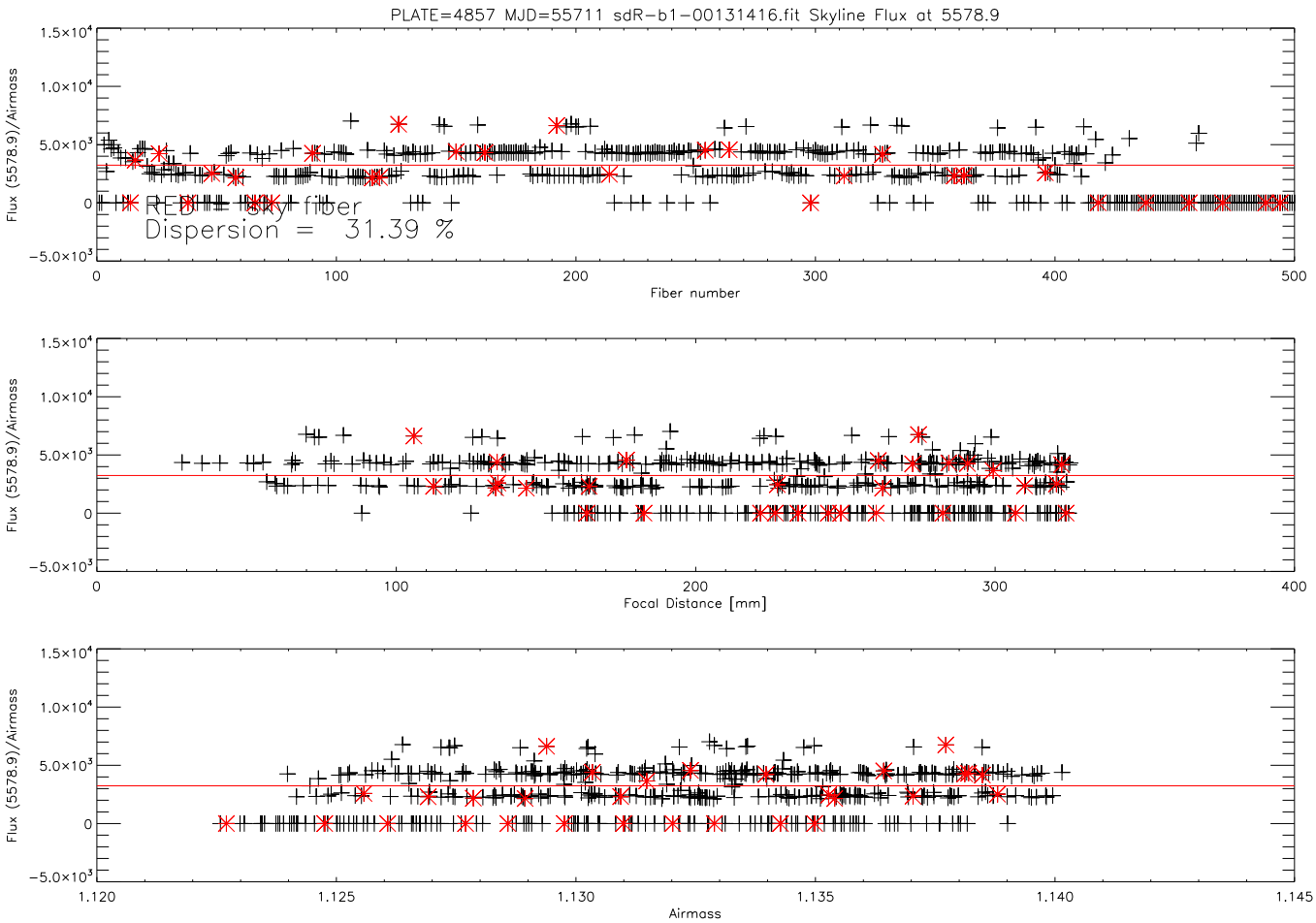

PLATE=4857 MJD=55711 sdR-b1-00131416.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

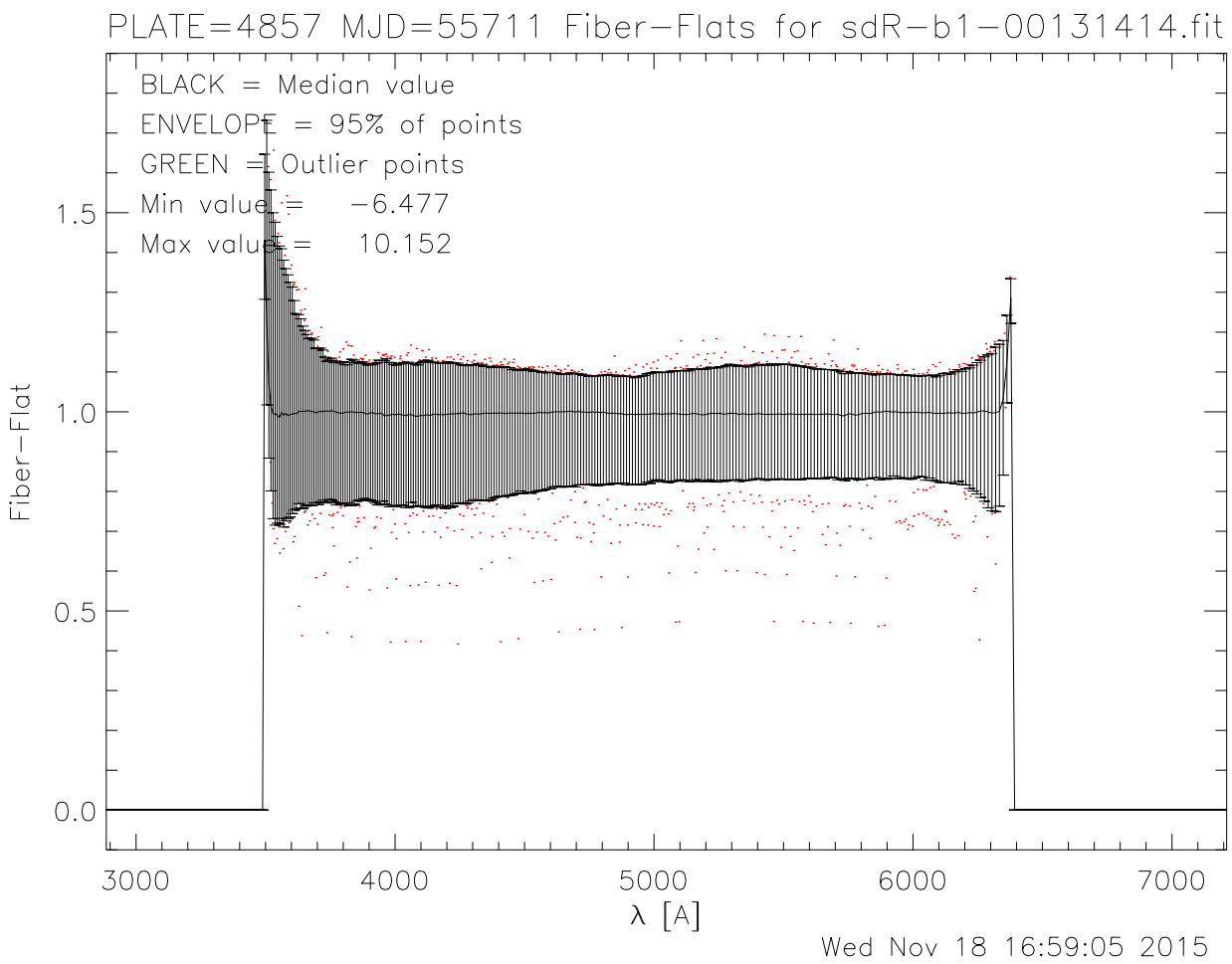

PLATE=4857 MJD=55711 sdR-b1-00131416.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
5570
5575
5580
5585
5590
λ [A]

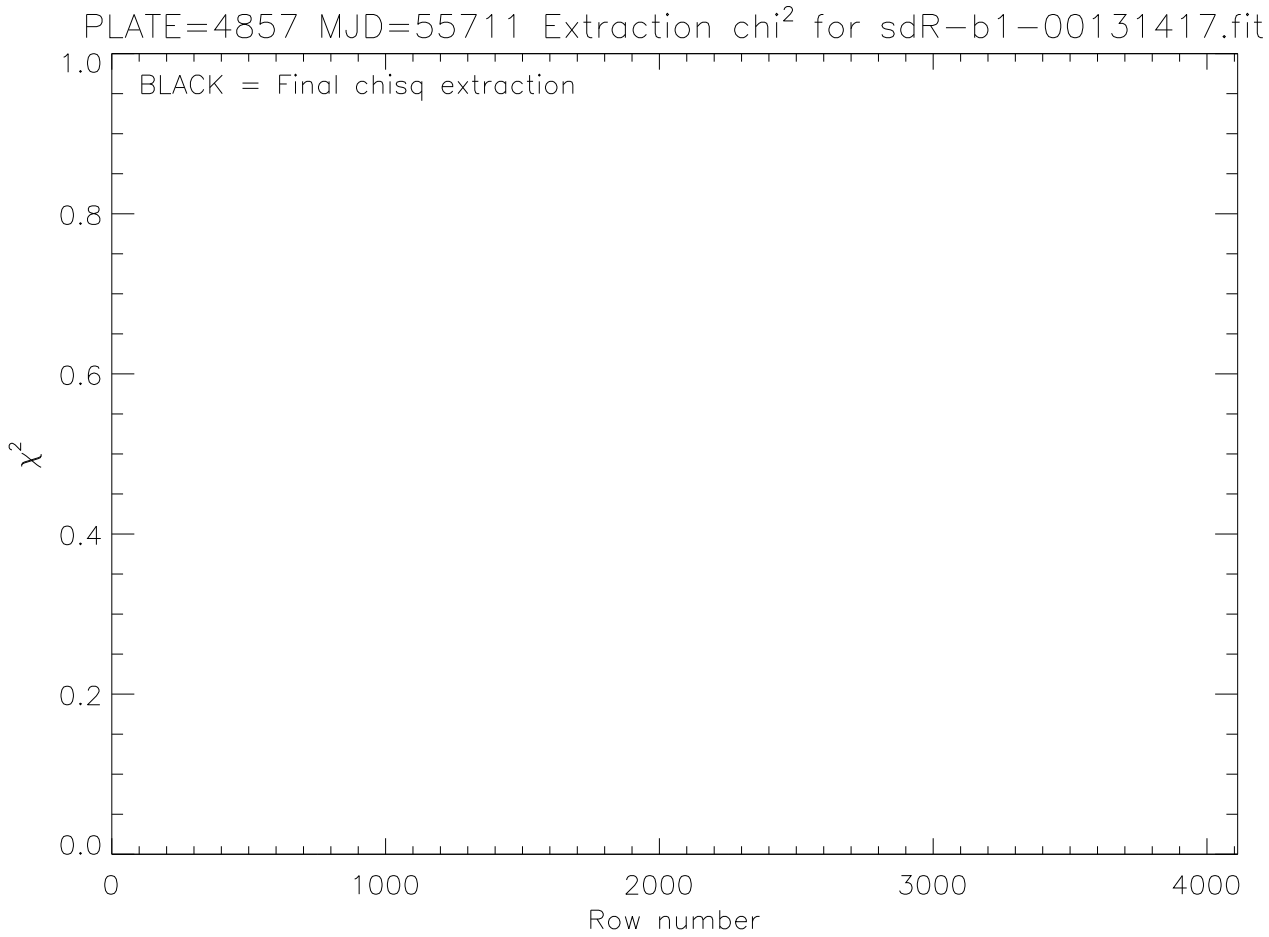
Number of sky fibers = 30

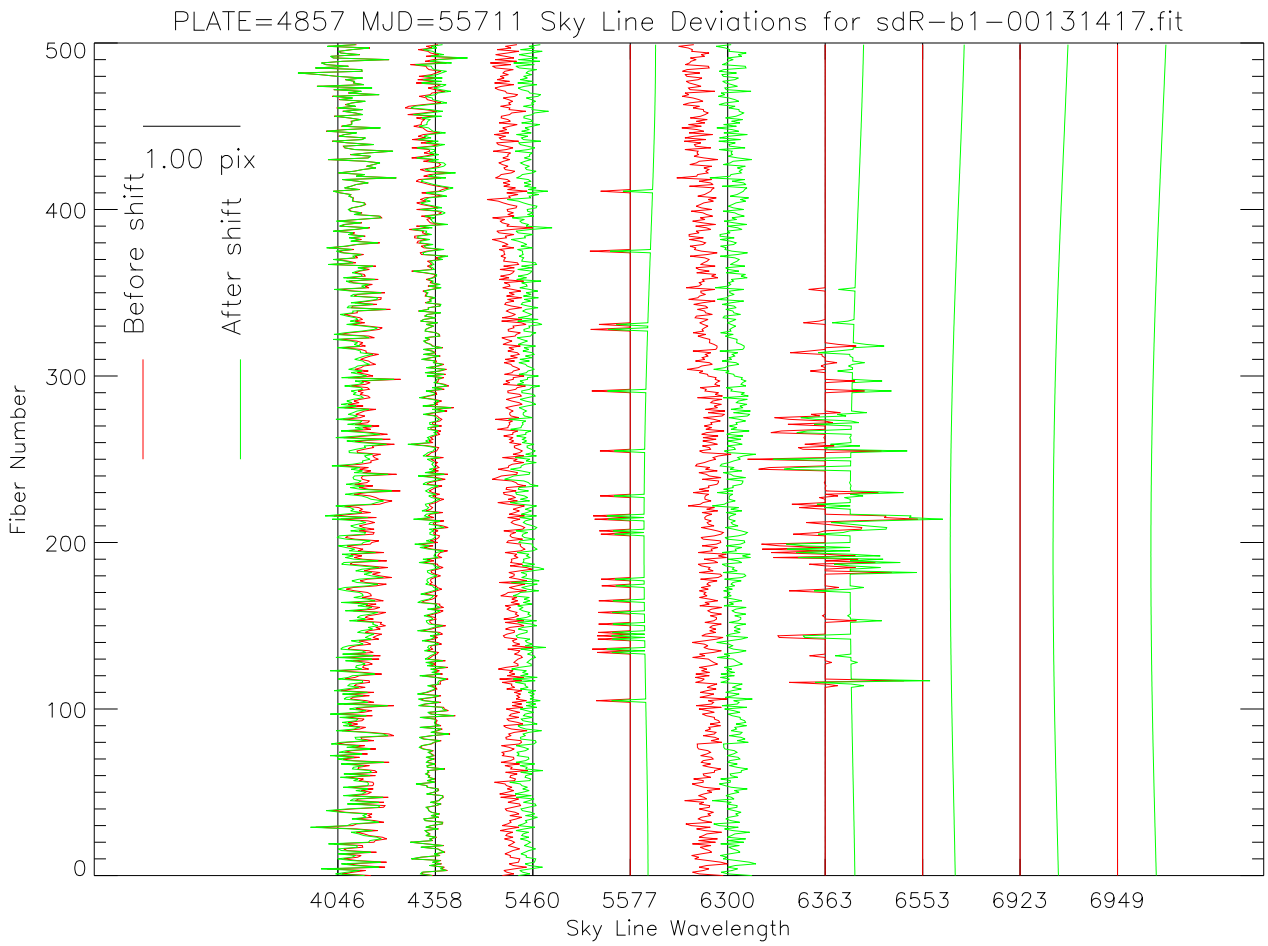


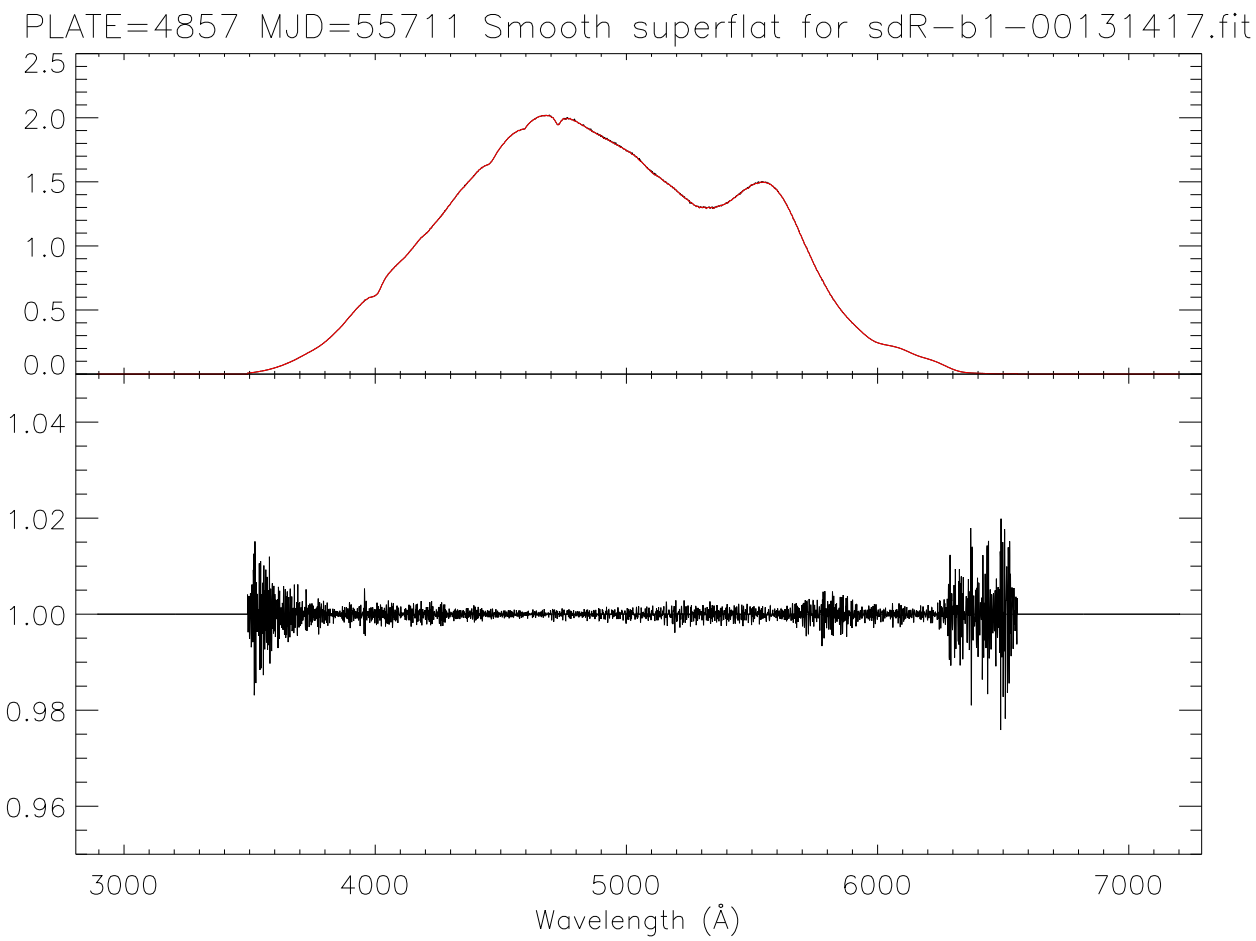

PLATE=4857 MJD=55711 sdR-b1-00131416.fit Skyline Flux at 4359.5
RED = sky fiber
Dispersion = 14.81 %
Flux (4359.5)/Airmass
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

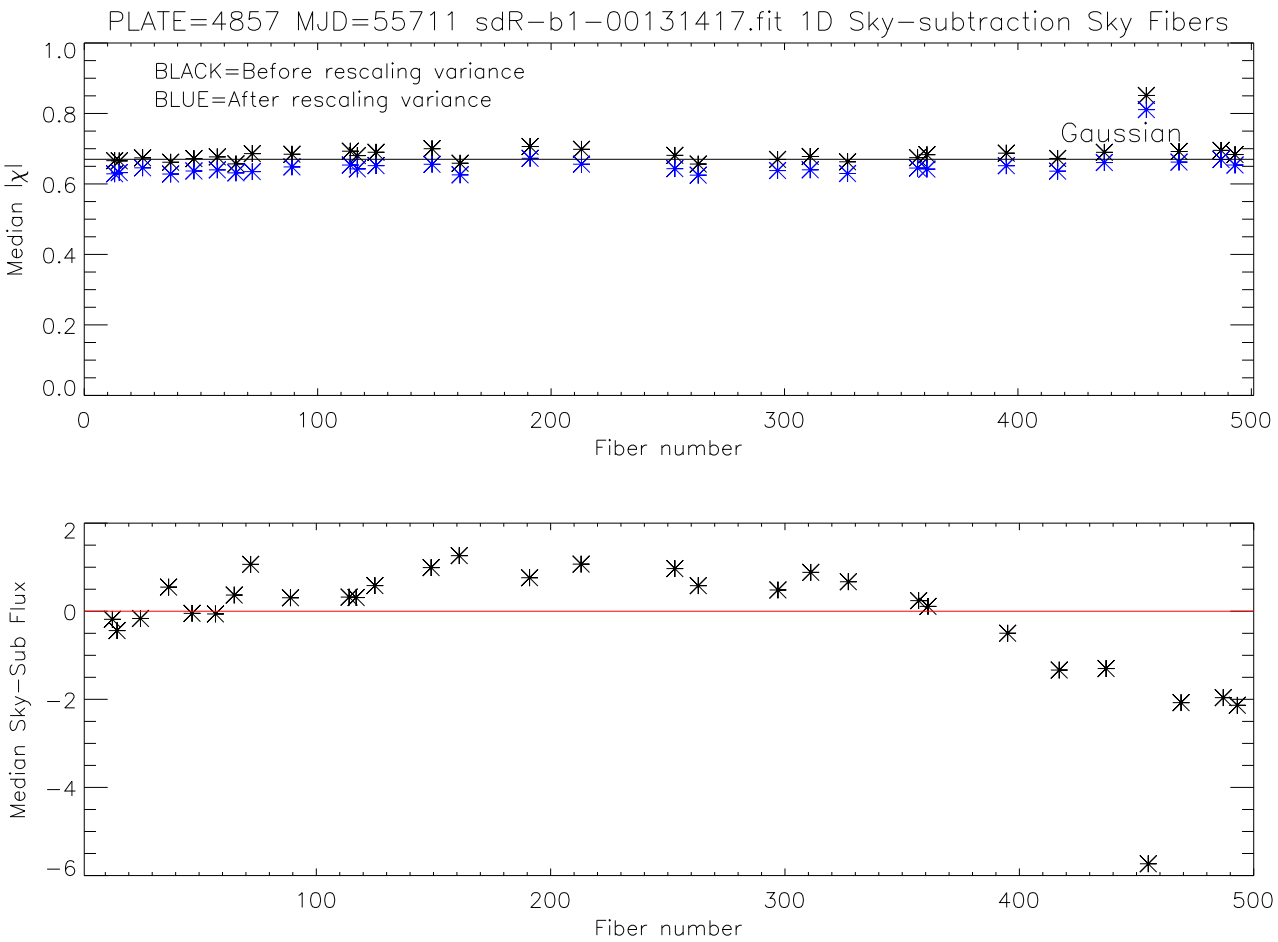

PLATE=4857 MJD=55711 sdR-b1-00131416.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
Red sky fiber
Dispersion = 31.39 %
Focal Distance [mm]
Airmass

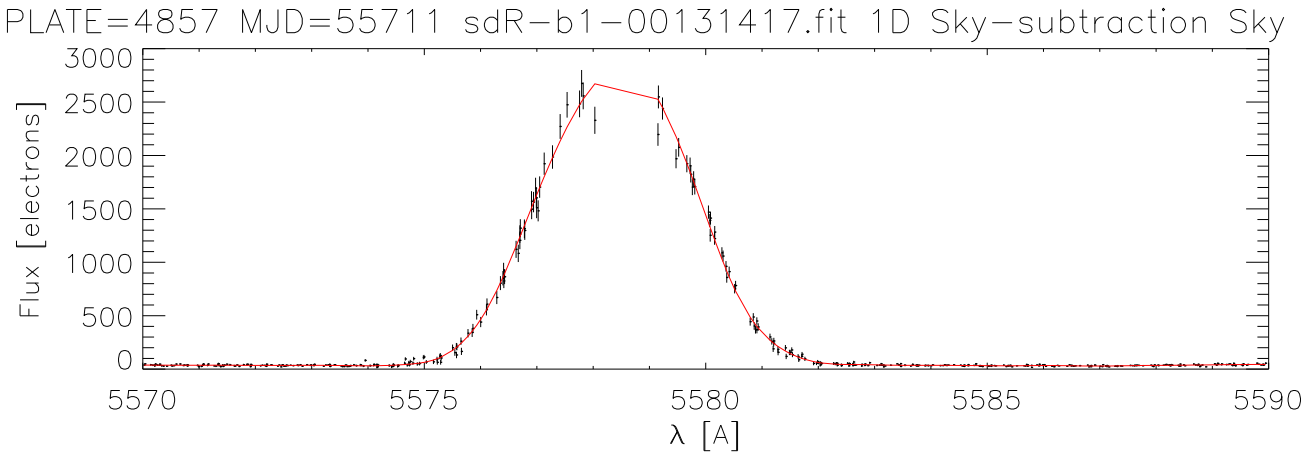

PLATE=4857 MJD=55711 Fiber−Flats for sdR−b1−00131414.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −6.477
Max value = 10.152
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Wed Nov 18 16:59:05 2015

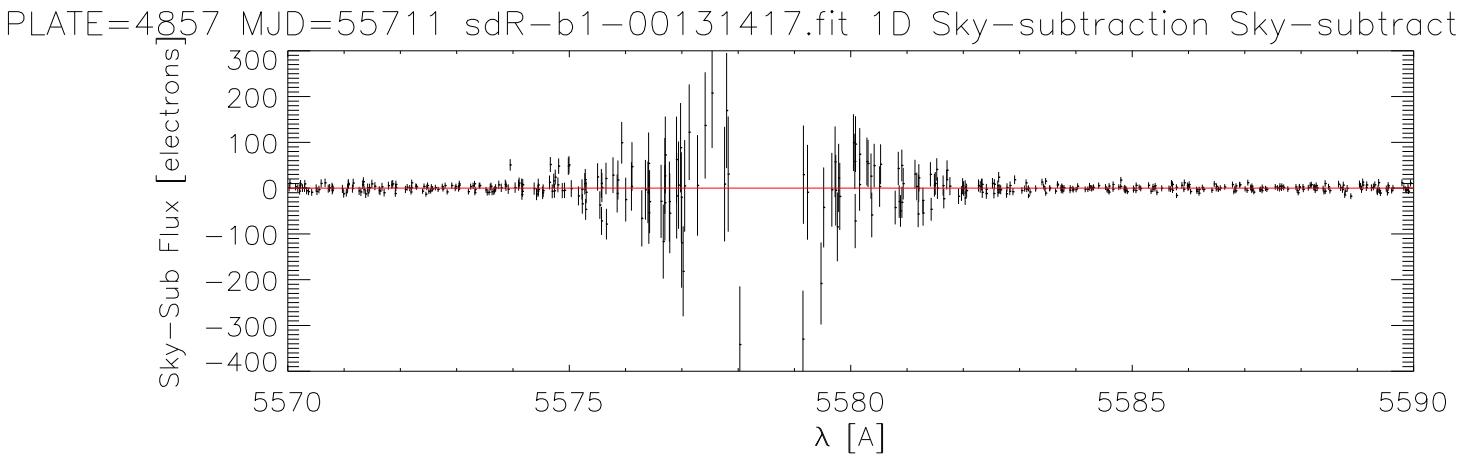

PLATE=4857 MJD=55711 Extraction chi$^2$ for sdR-b1-00131417.fit
BLACK = Final chisq extraction
$\chi^2$
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=4857 MJD=55711 Sky Line Deviations for sdR-b1-00131417.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

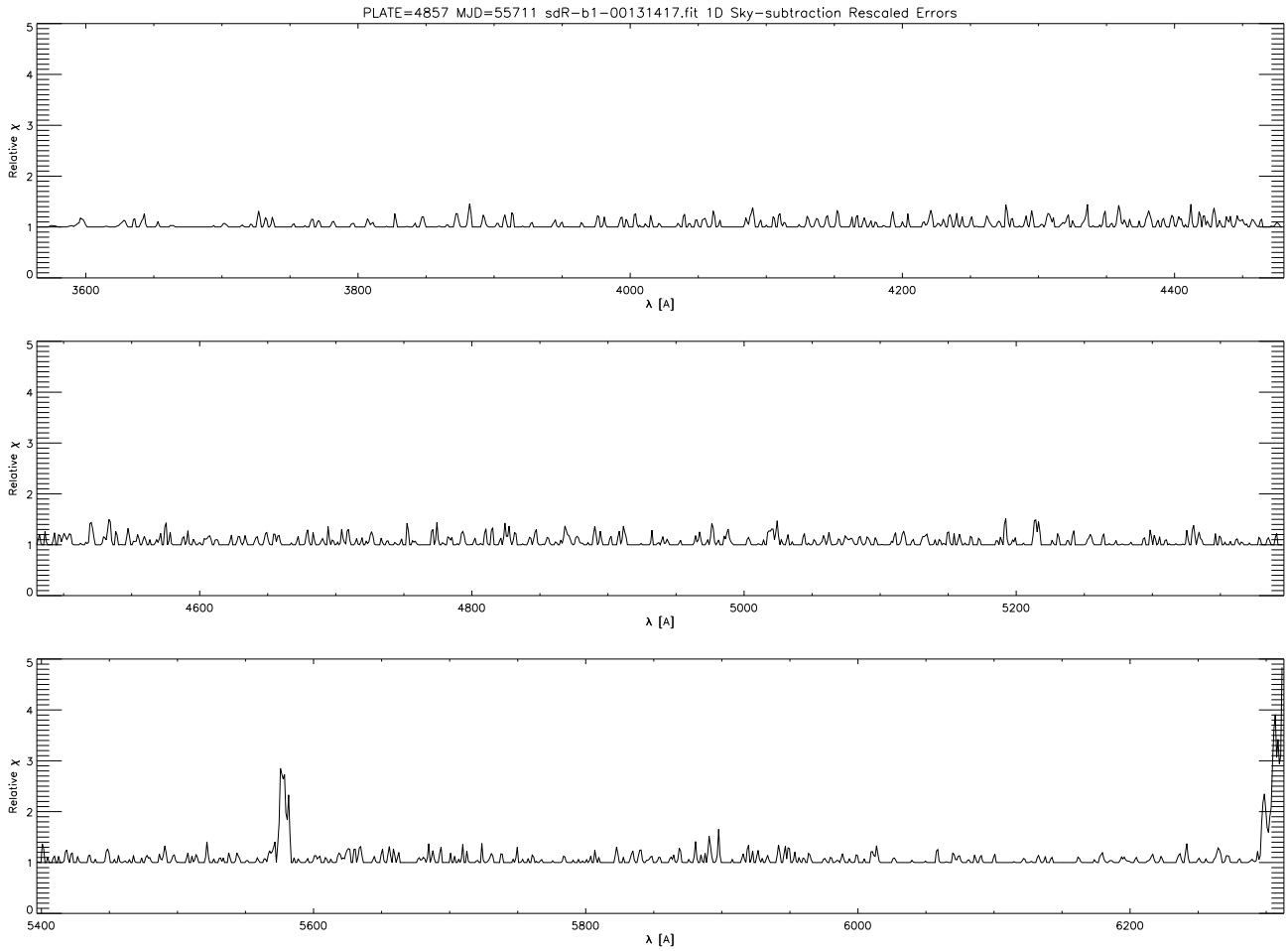

PLATE=4857 MJD=55711 Smooth superflat for sdR-b1-00131417.fit
2.5
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

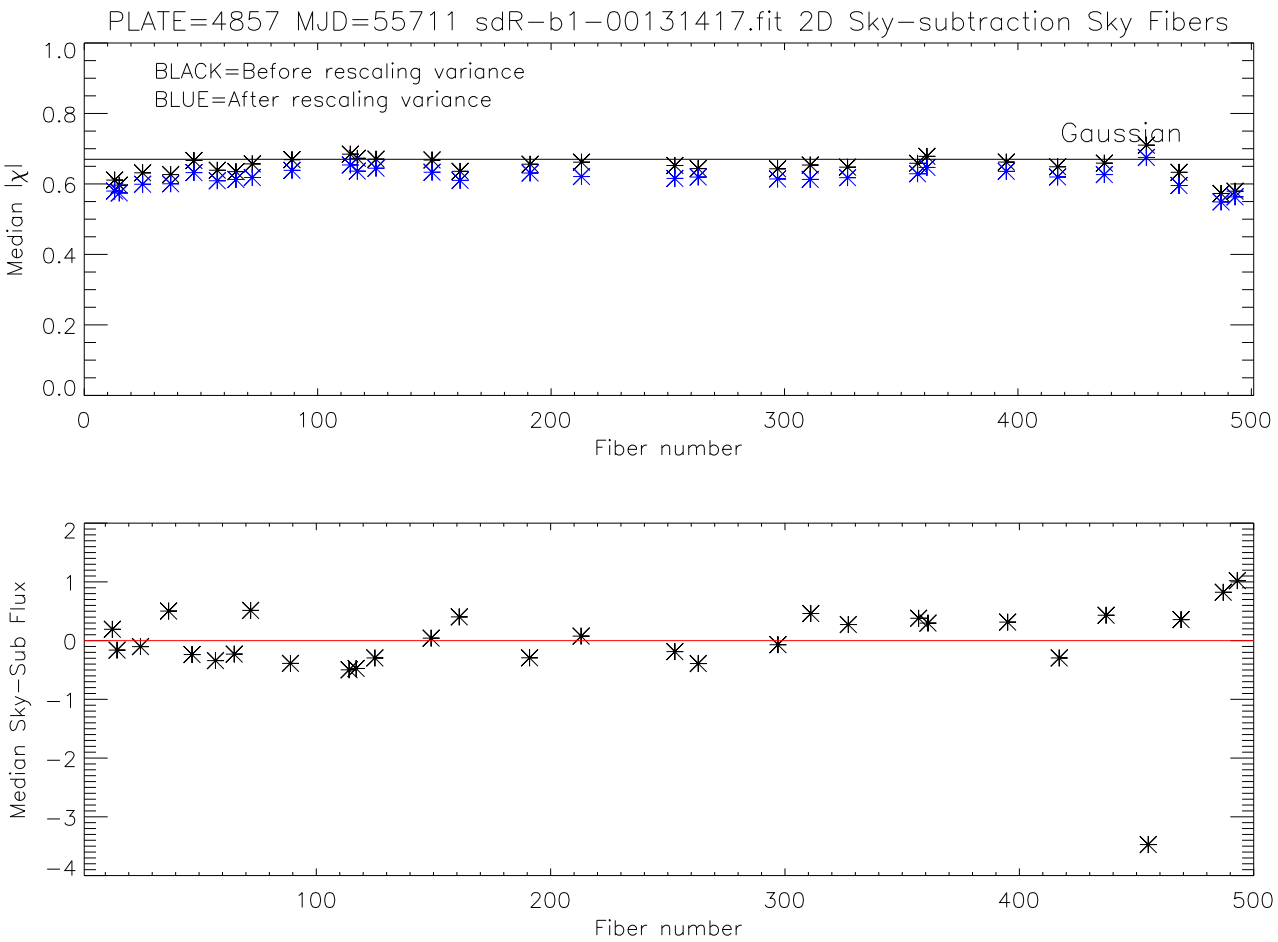

PLATE=4857 MJD=55711 sdR-b1-00131417.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

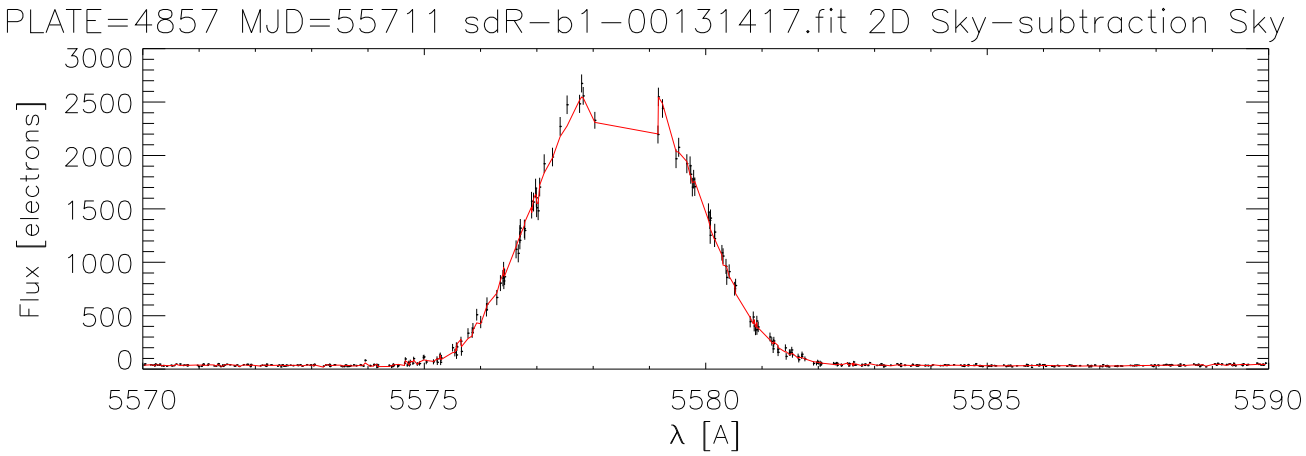

PLATE=4857 MJD=55711 sdR-b1-00131417.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

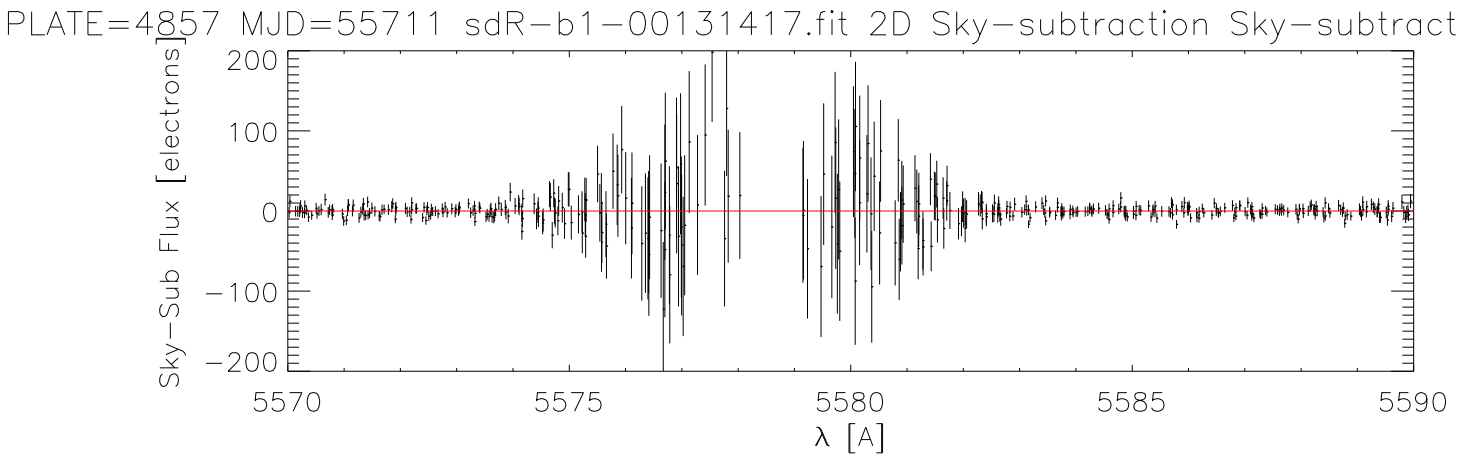

PLATE=4857 MJD=55711 sdR-b1-00131417.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
-400
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 30

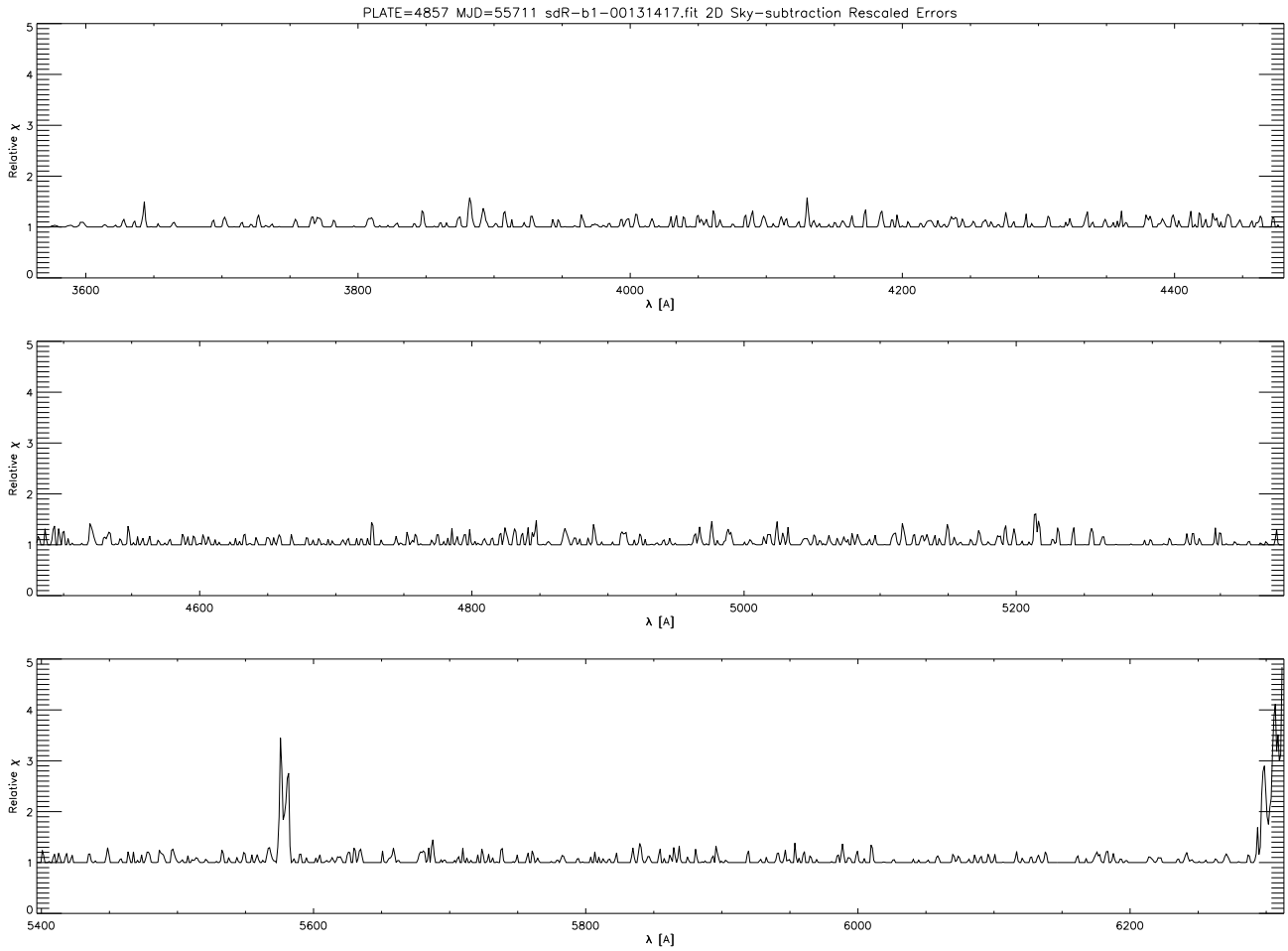


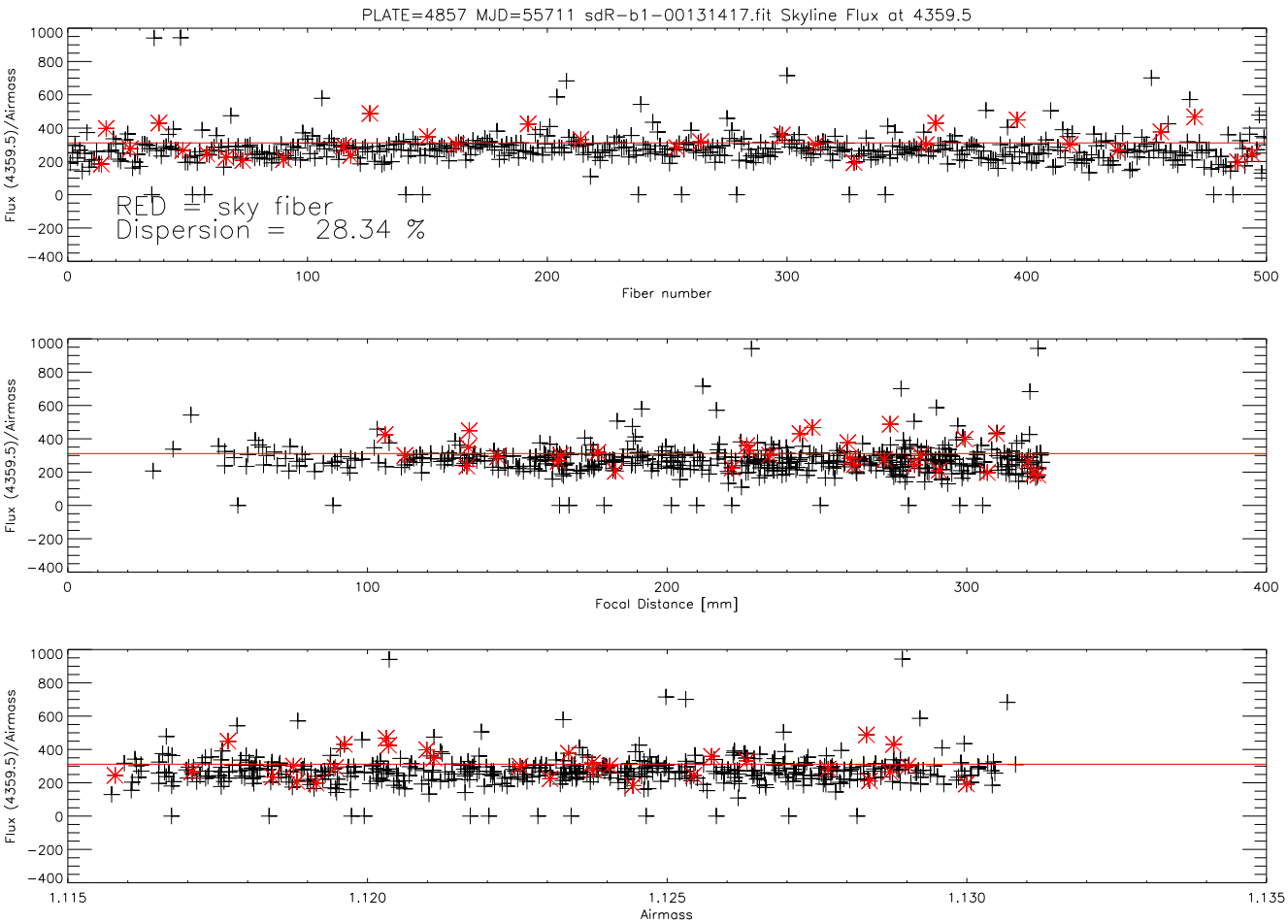

PLATE=4857 MJD=55711 sdR-b1-00131417.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

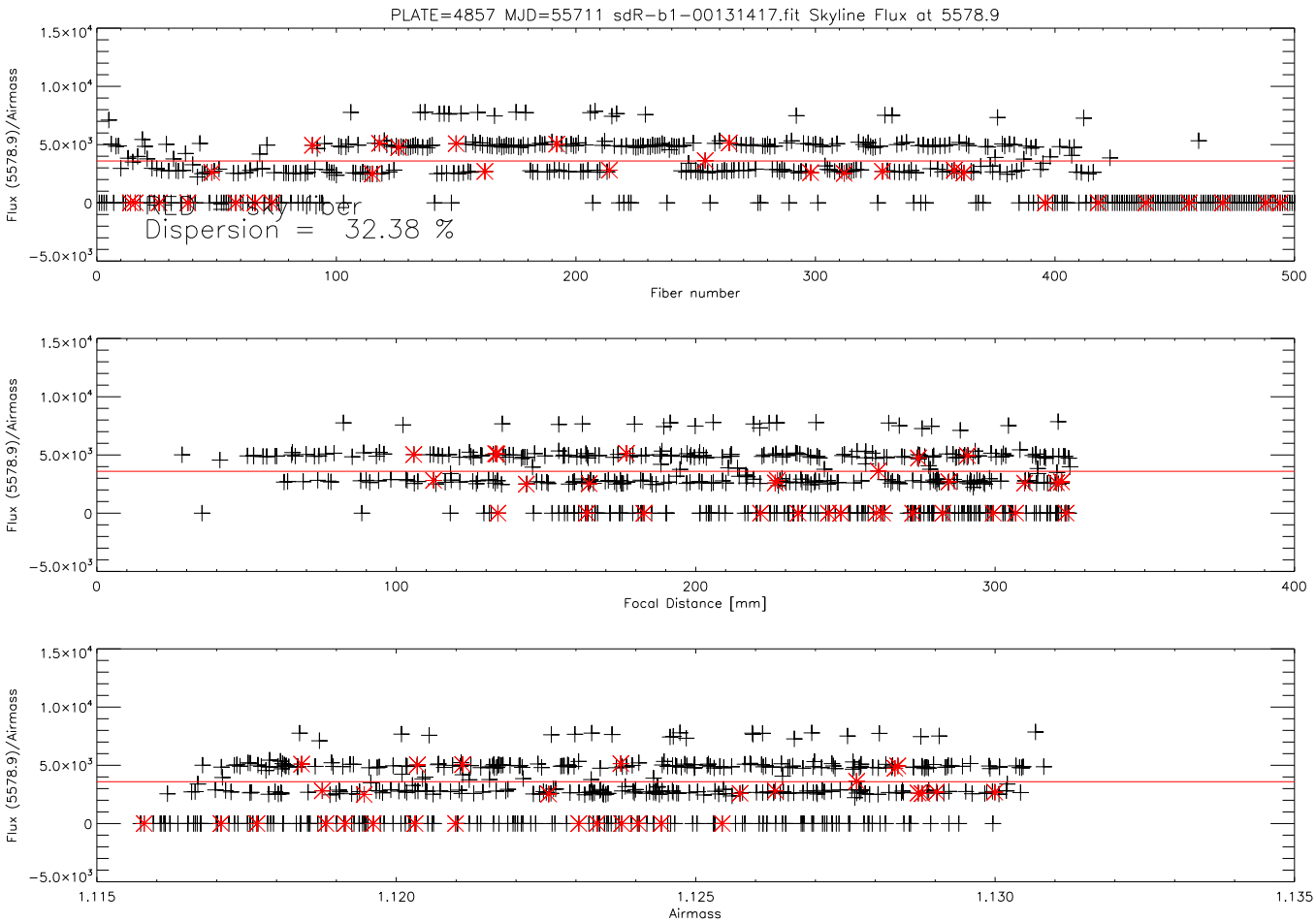

PLATE=4857 MJD=55711 sdR-b1-00131417.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

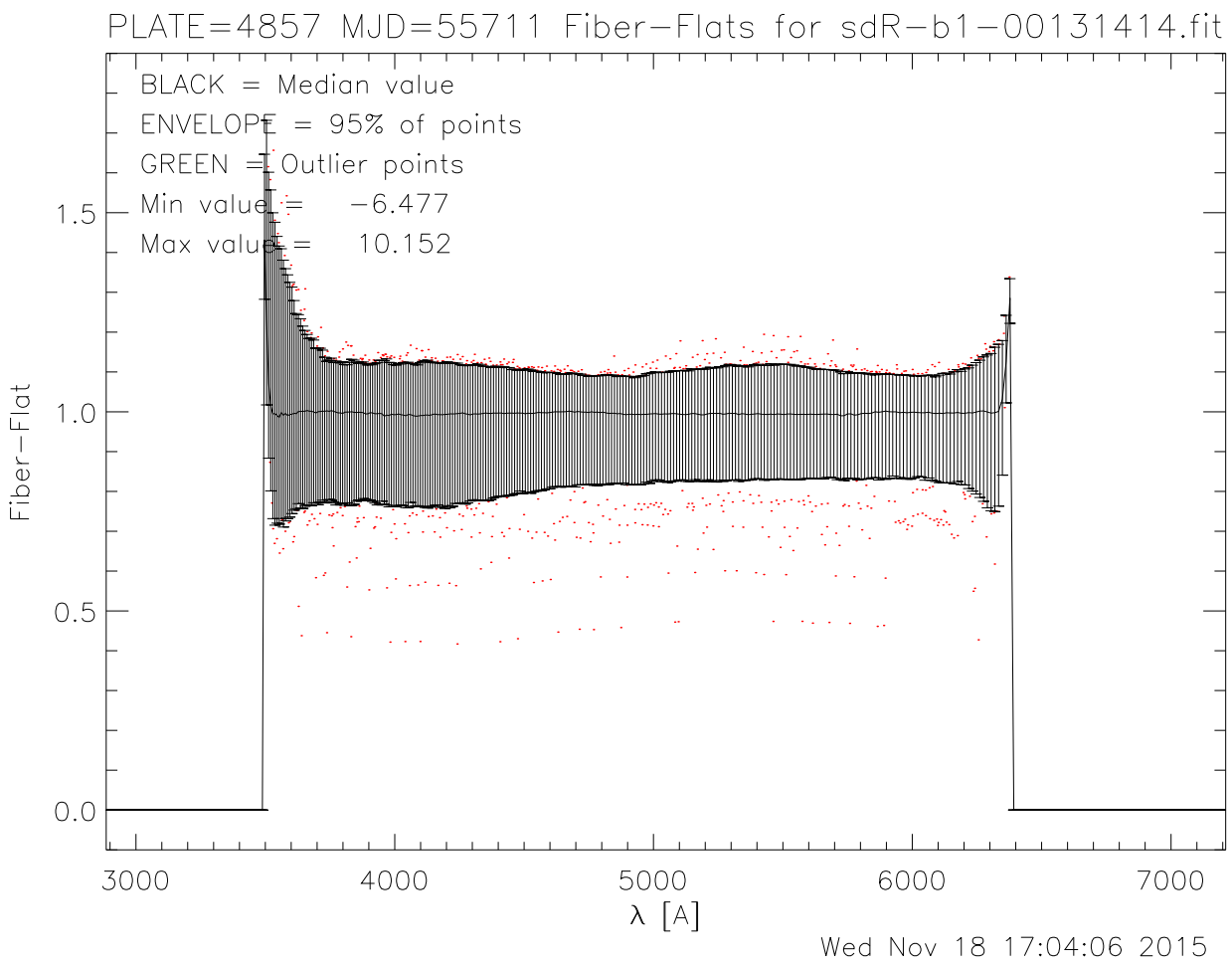

PLATE=4857 MJD=55711 sdR-b1-00131417.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

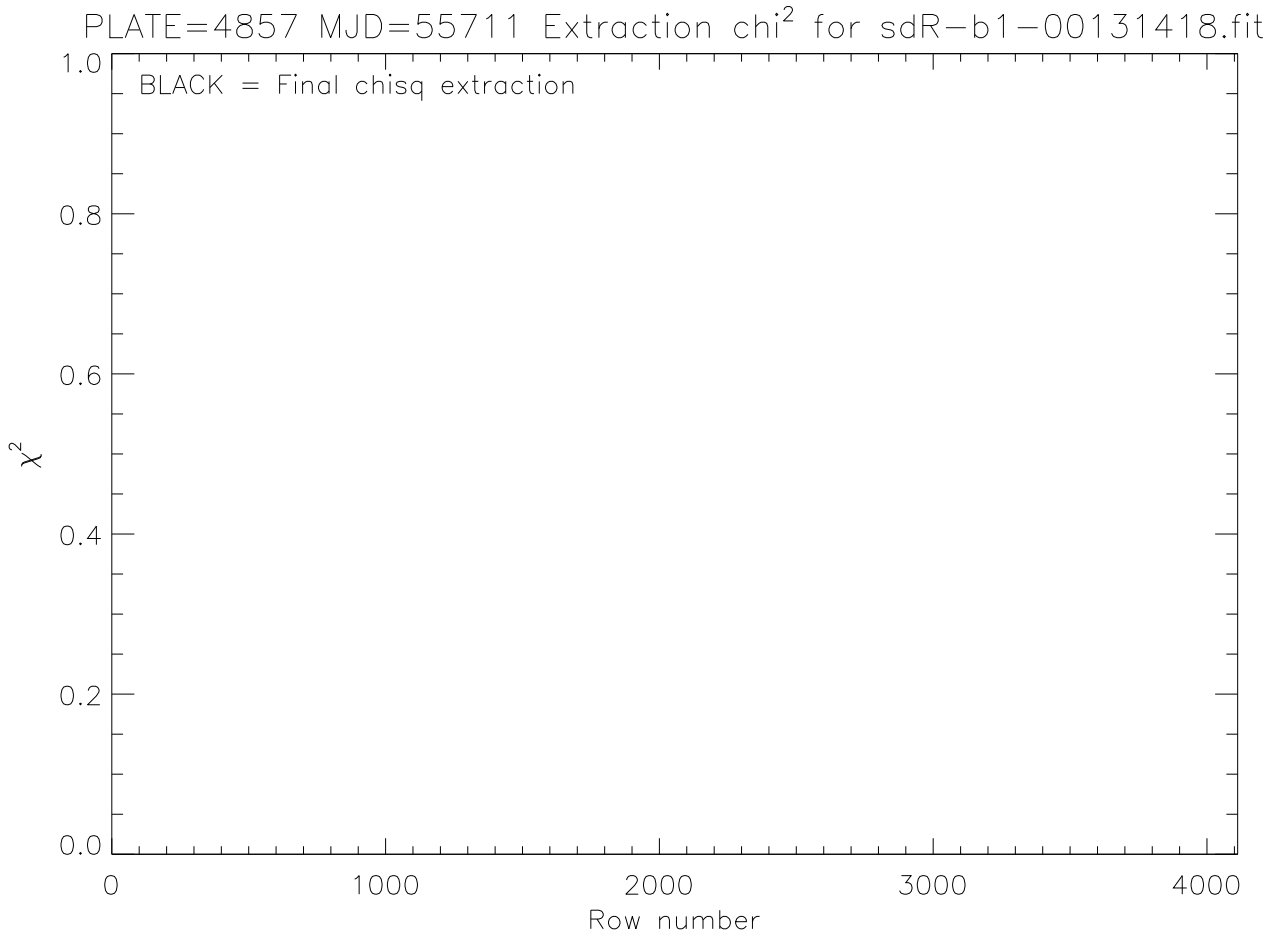
Number of sky fibers = 30

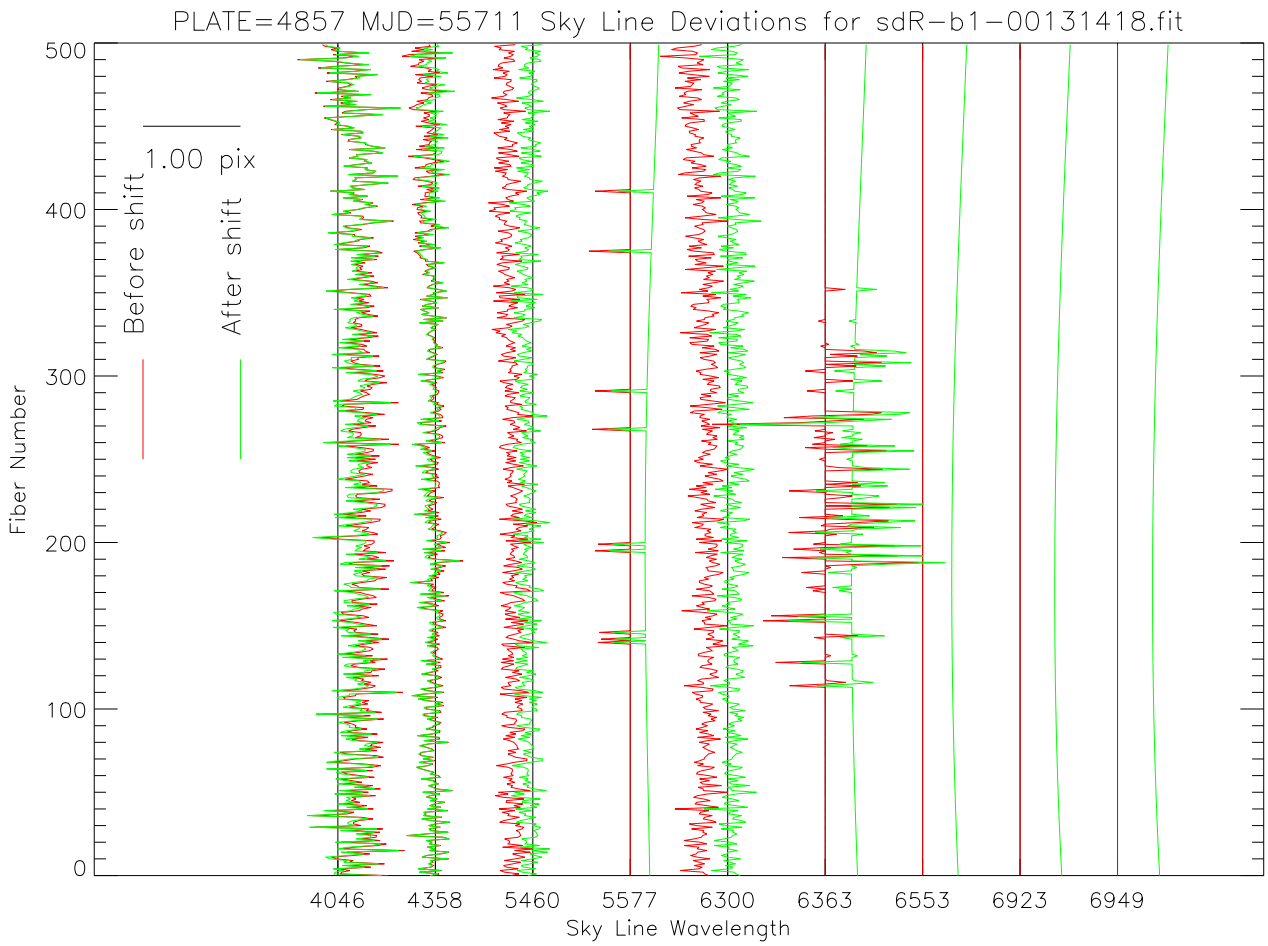


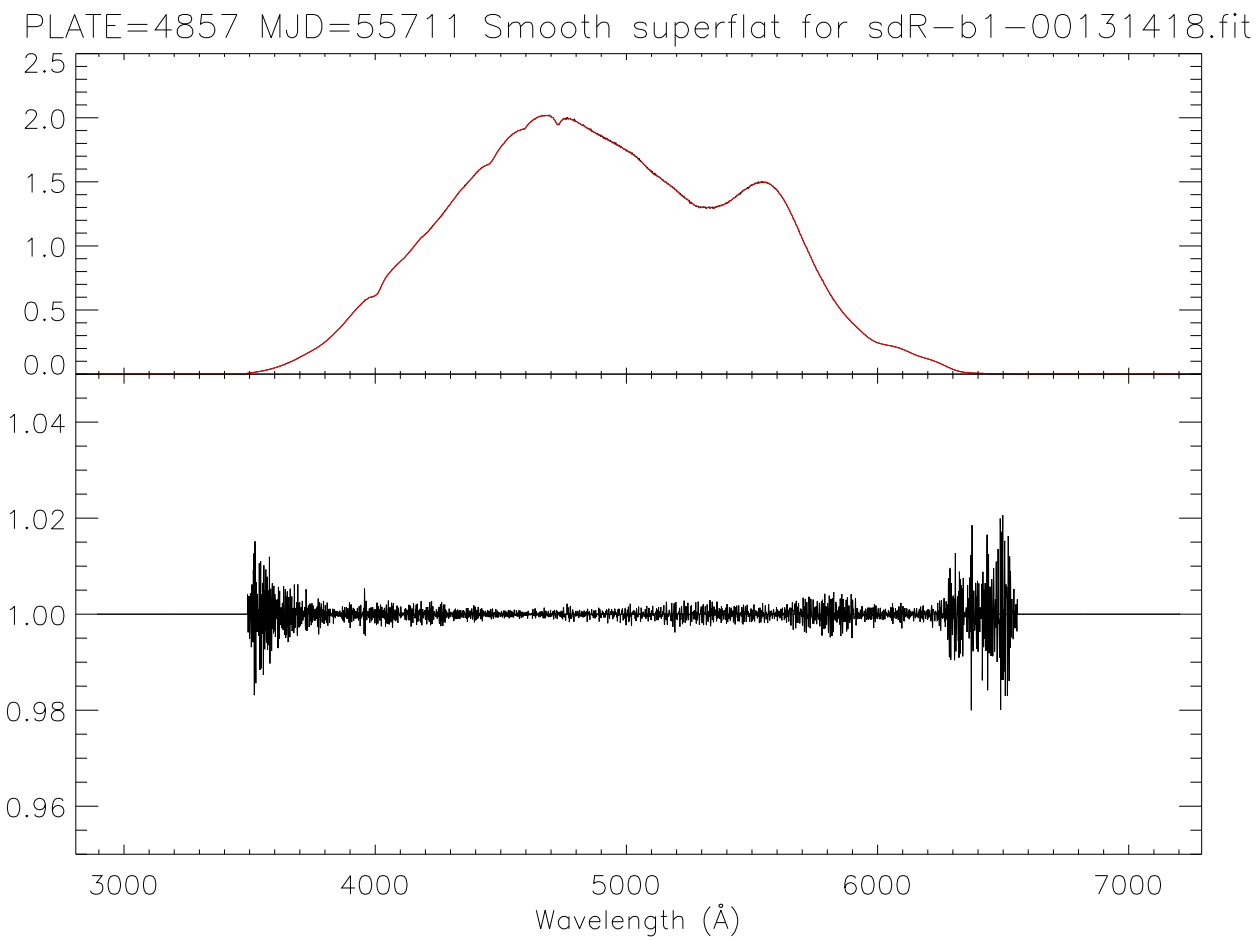

PLATE=4857 MJD=55711 sdR-b1-00131417.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 28.34 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

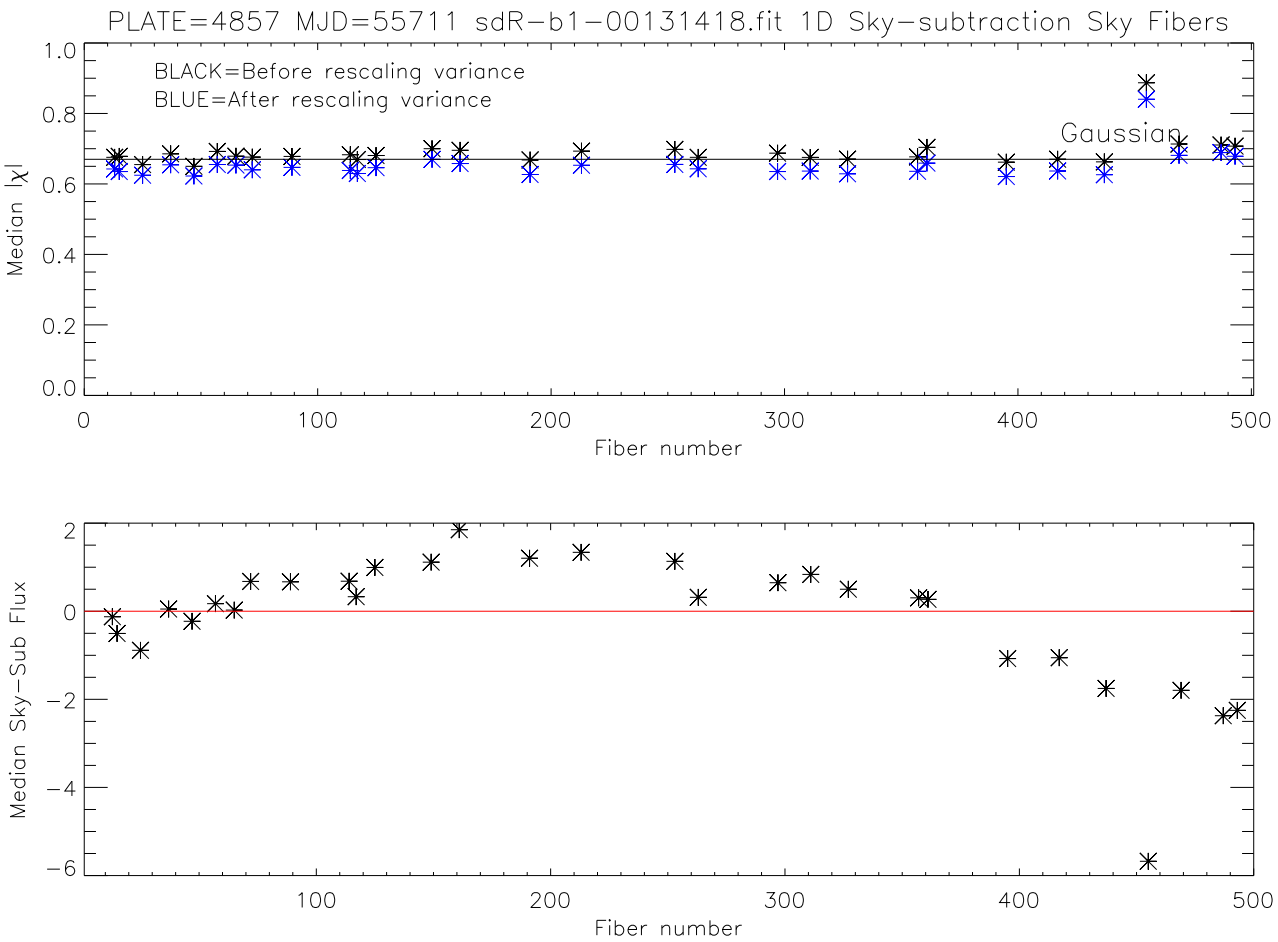

PLATE=4857 MJD=55711 sdR-b1-00131417.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
1.5×10⁴
1.0×10⁴
5.0×10³
0
−5.0×10³
0
100
200
300
400
500
Fiber number
Red Sky Fiber
Dispersion = 32.38 %
Flux (5578.9)/Airmass
1.5×10⁴
1.0×10⁴
5.0×10³
0
−5.0×10³
0
100
200
300
400
Focal Distance [mm]
Flux (5578.9)/Airmass
1.5×10⁴
1.0×10⁴
5.0×10³
0
−5.0×10³
1.115
1.120
1.125
1.130
1.135
Airmass

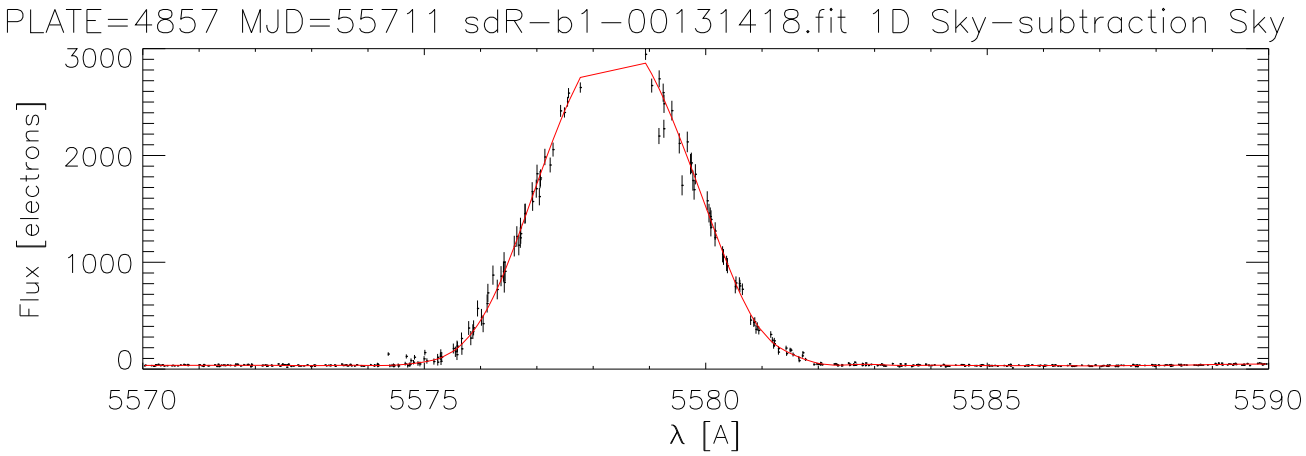

PLATE=4857 MJD=55711 Fiber−Flats for sdR−b1−00131414.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −6.477
Max value = 10.152
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Wed Nov 18 17:04:06 2015

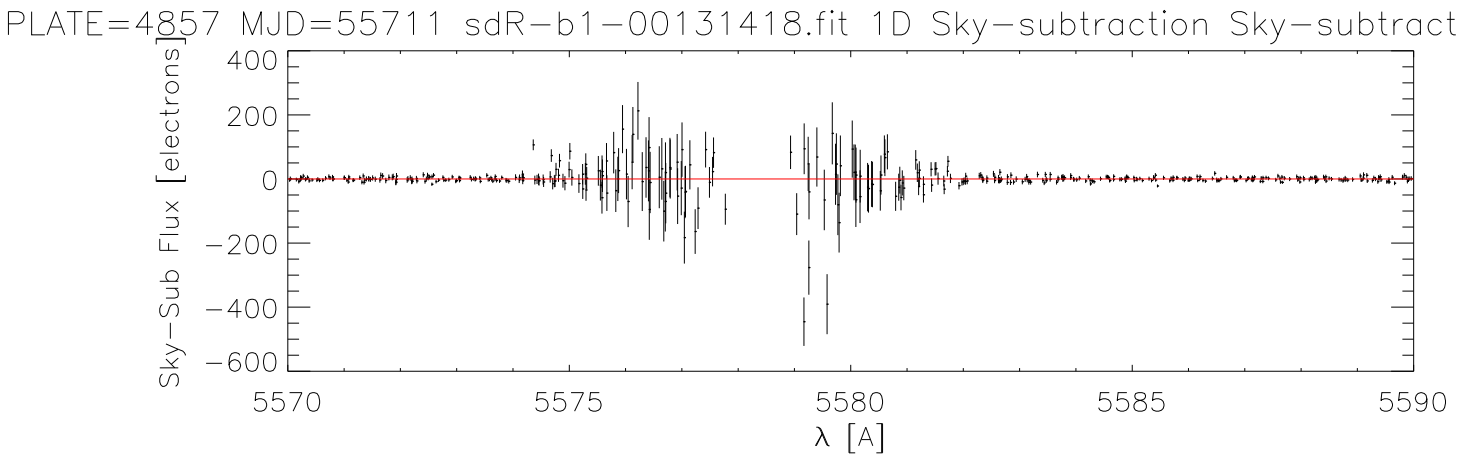

PLATE=4857 MJD=55711 Extraction chi$^2$ for sdR-b1-00131418.fit
BLACK = Final chisq extraction
$\chi^2$
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=4857 MJD=55711 Sky Line Deviations for sdR-b1-00131418.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

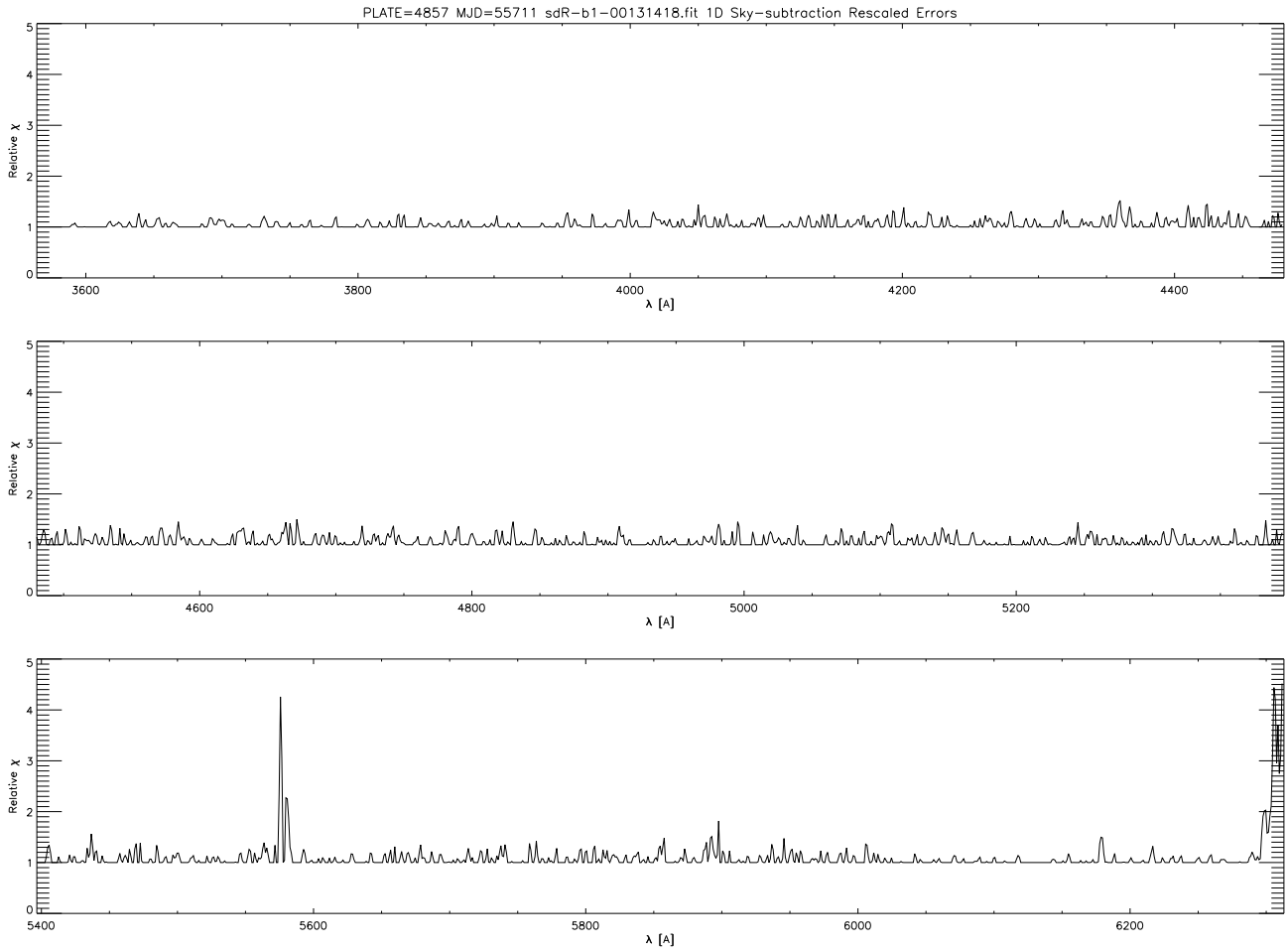

PLATE=4857 MJD=55711 Smooth superflat for sdR-b1-00131418.fit
2.5
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

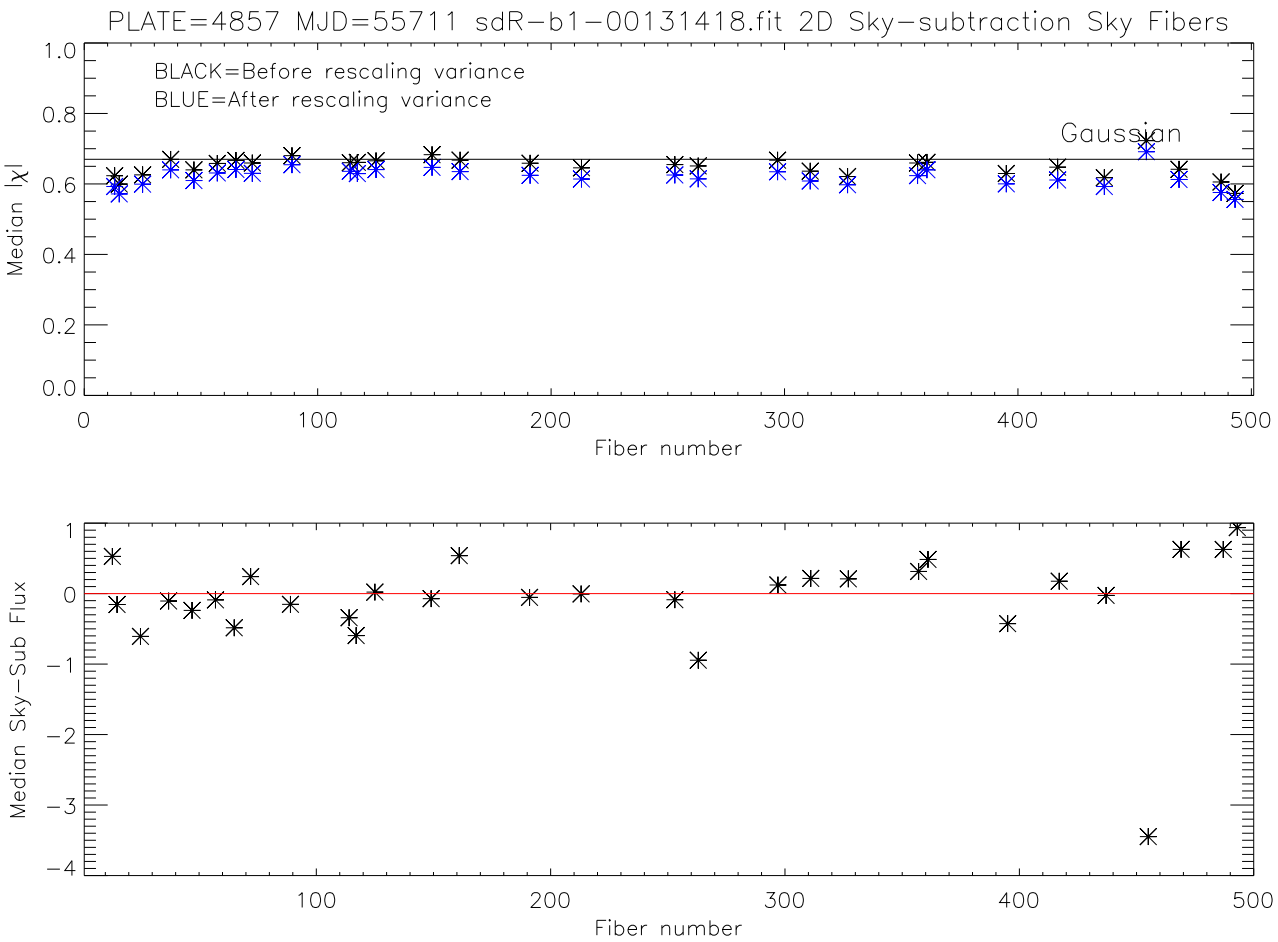

PLATE=4857 MJD=55711 sdR-b1-00131418.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

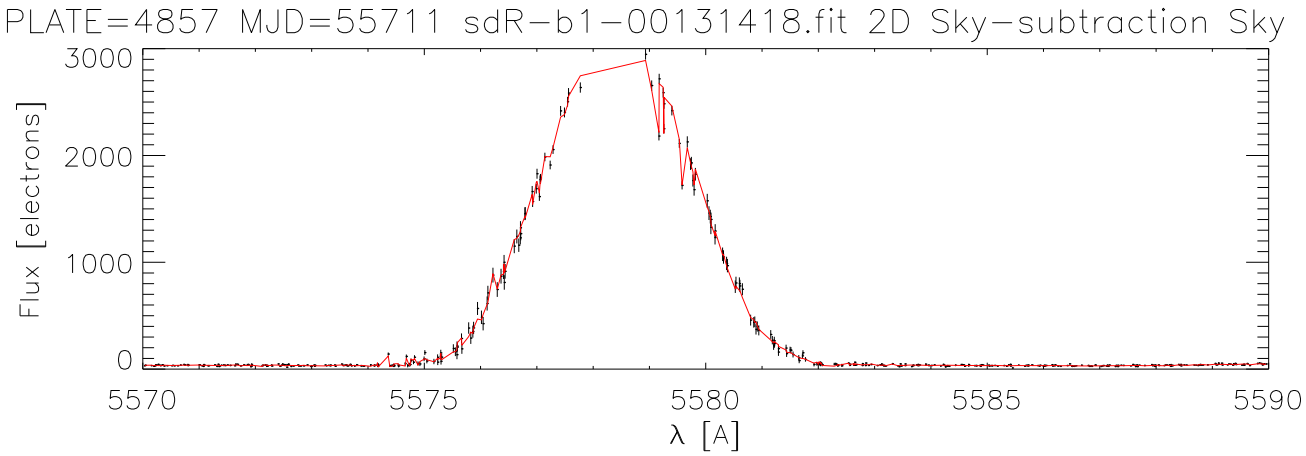

PLATE=4857 MJD=55711 sdR-b1-00131418.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

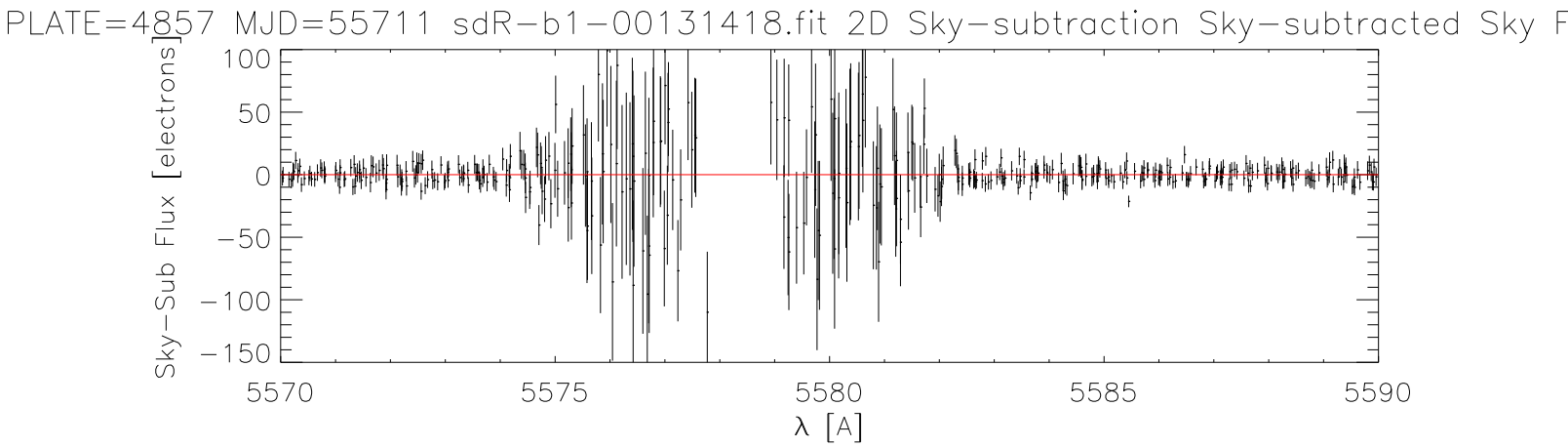

PLATE=4857 MJD=55711 sdR-b1-00131418.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 30

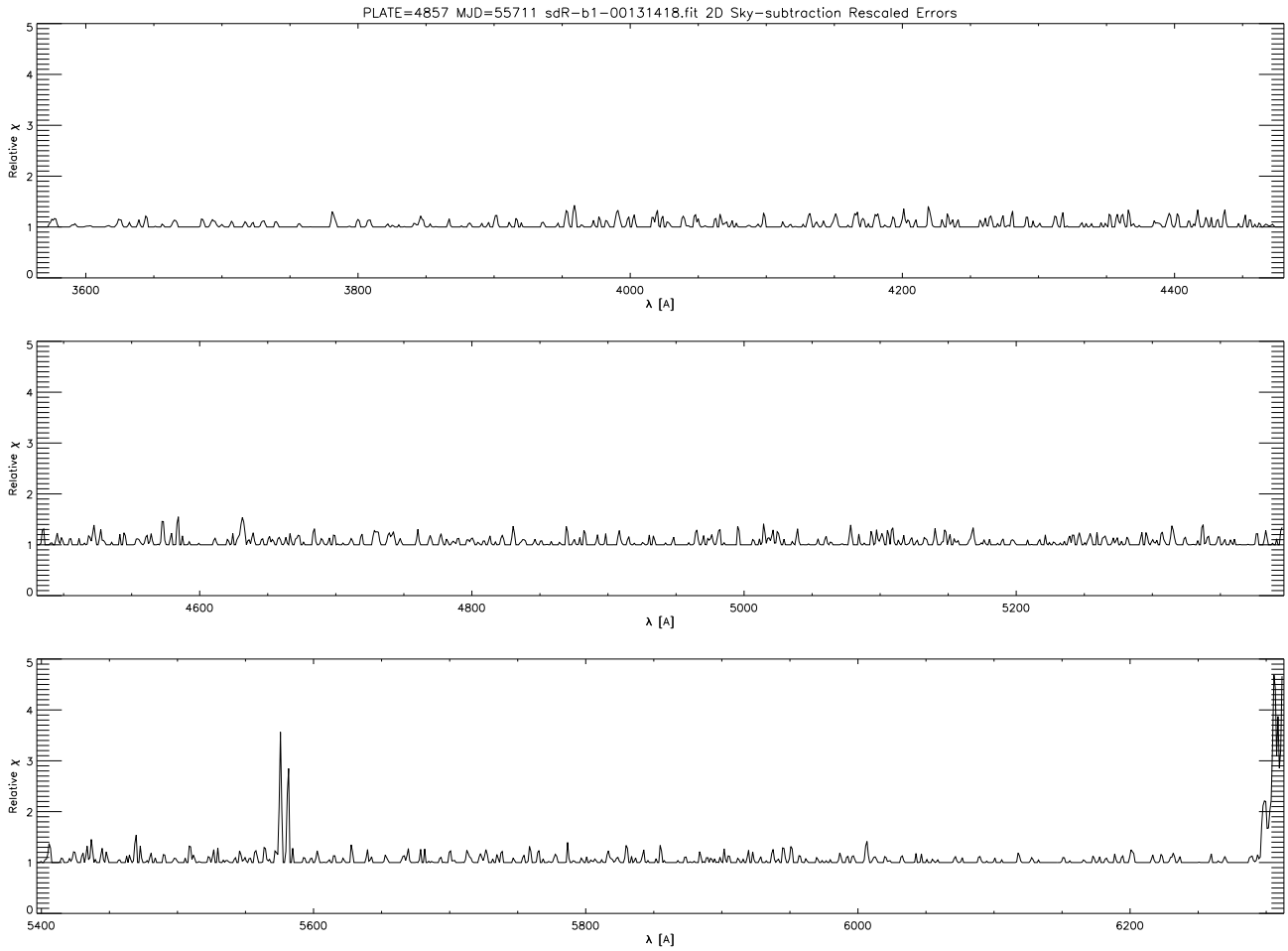


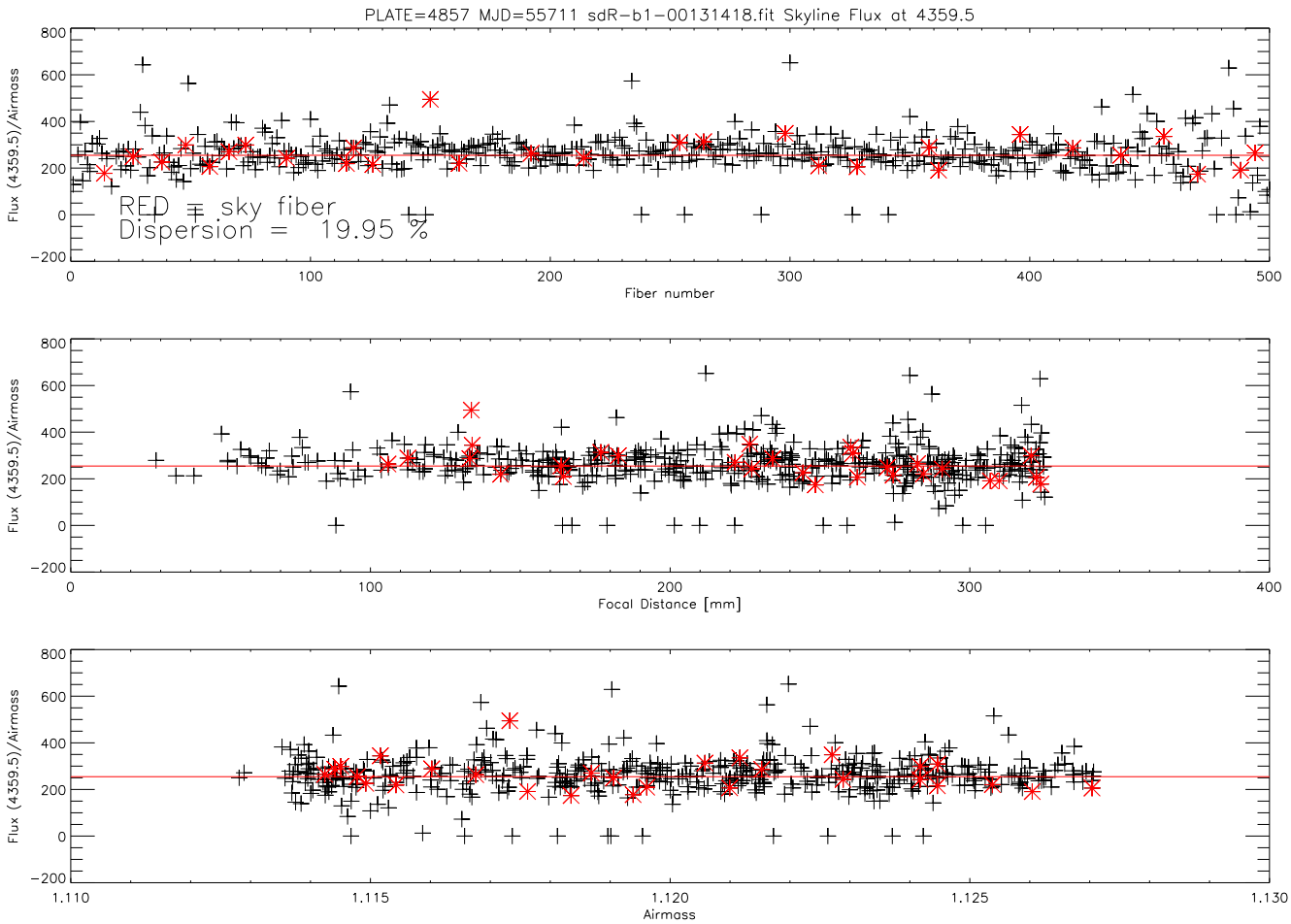

PLATE=4857 MJD=55711 sdR-b1-00131418.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

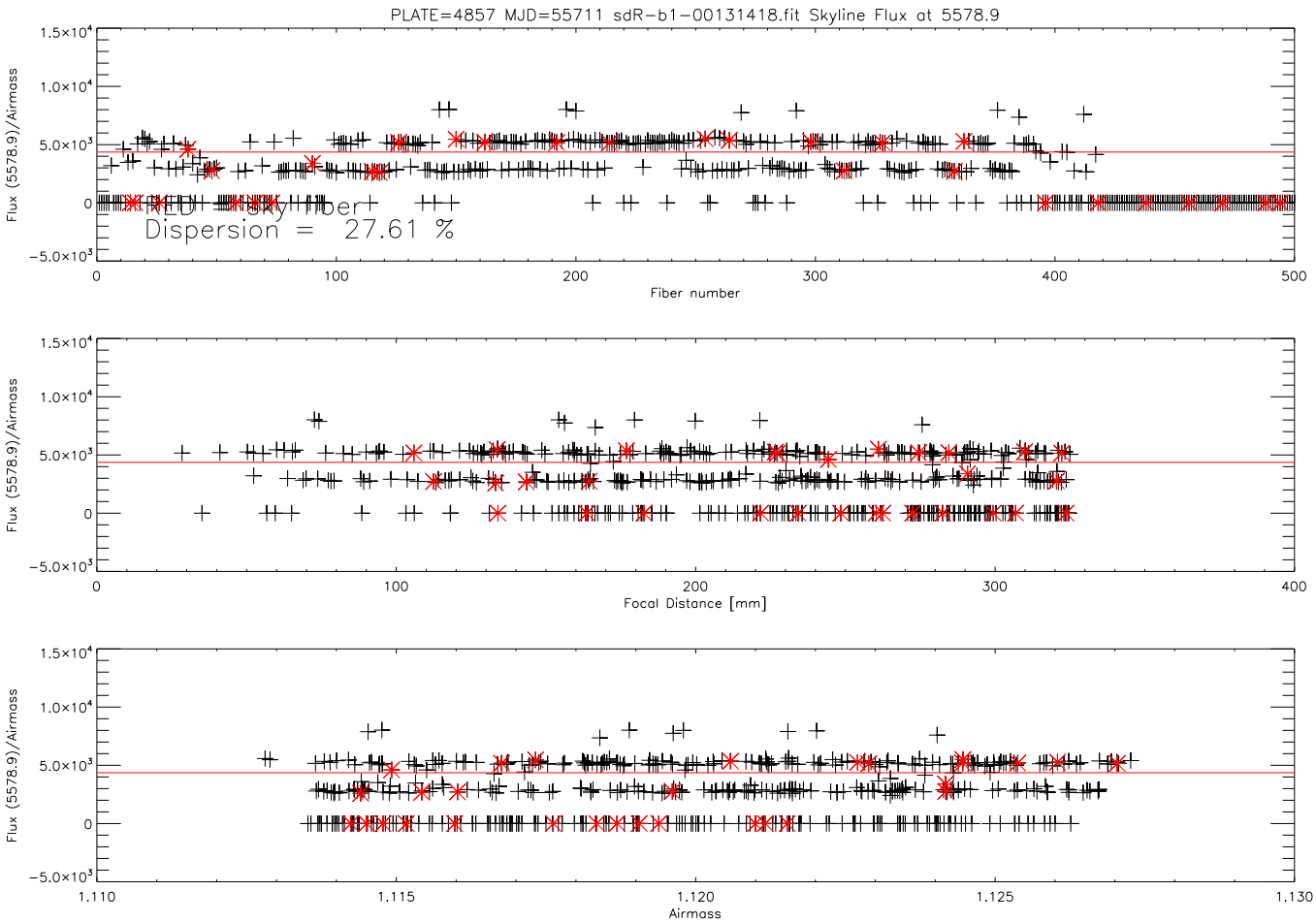

PLATE=4857 MJD=55711 sdR-b1-00131418.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

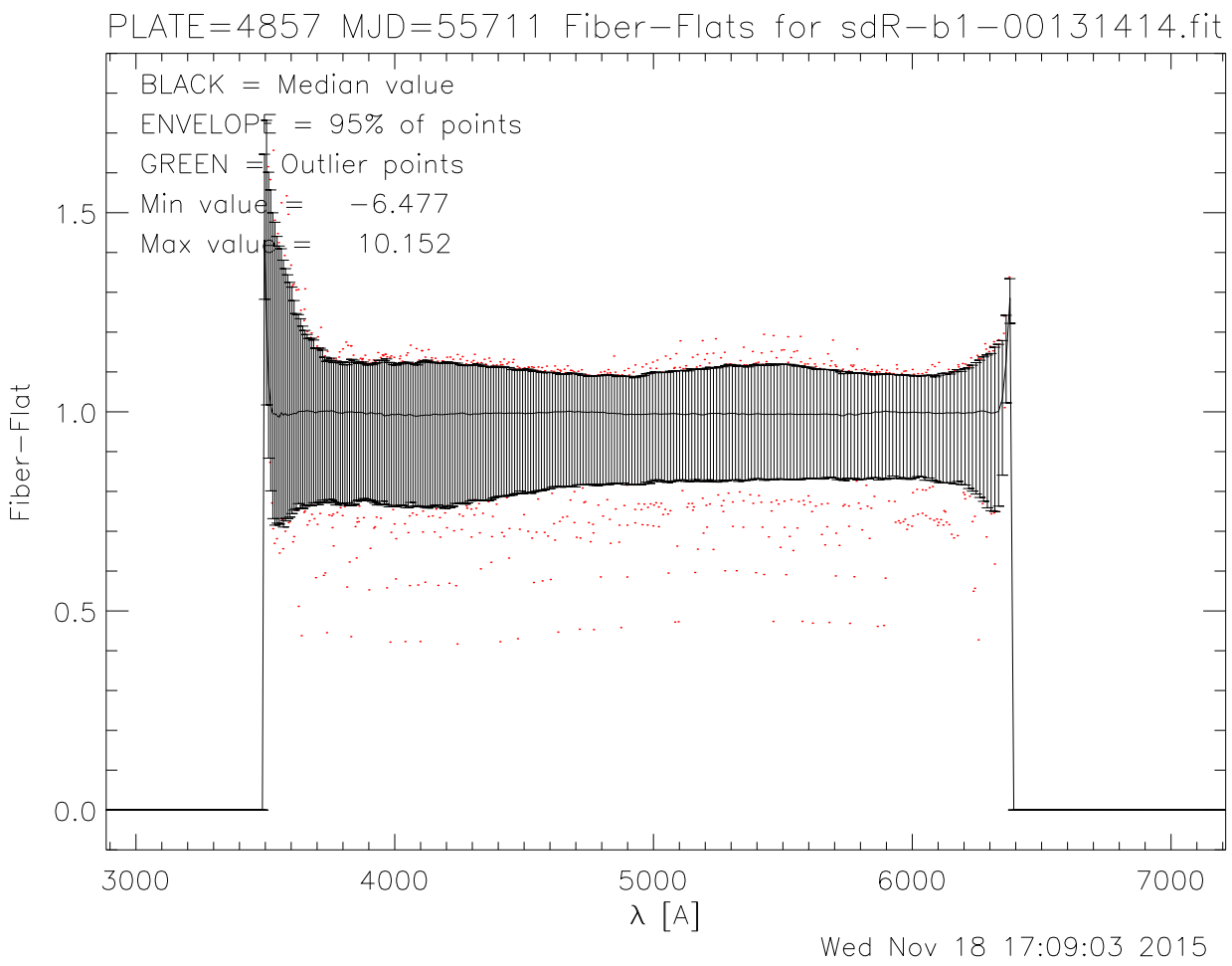

PLATE=4857 MJD=55711 sdR-b1-00131418.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
-150
5570
5575
5580
5585
5590
λ [A]

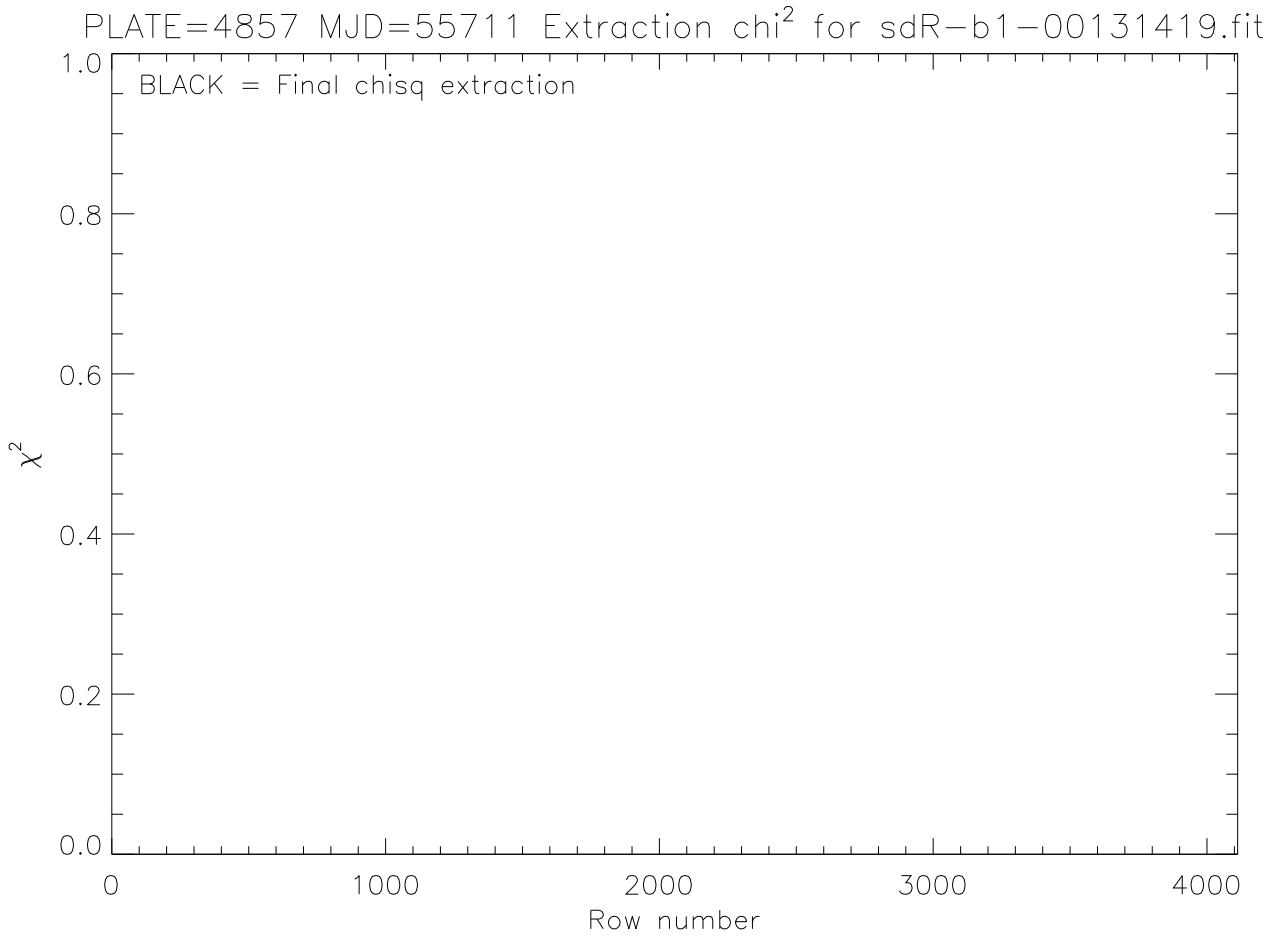
Number of sky fibers = 30

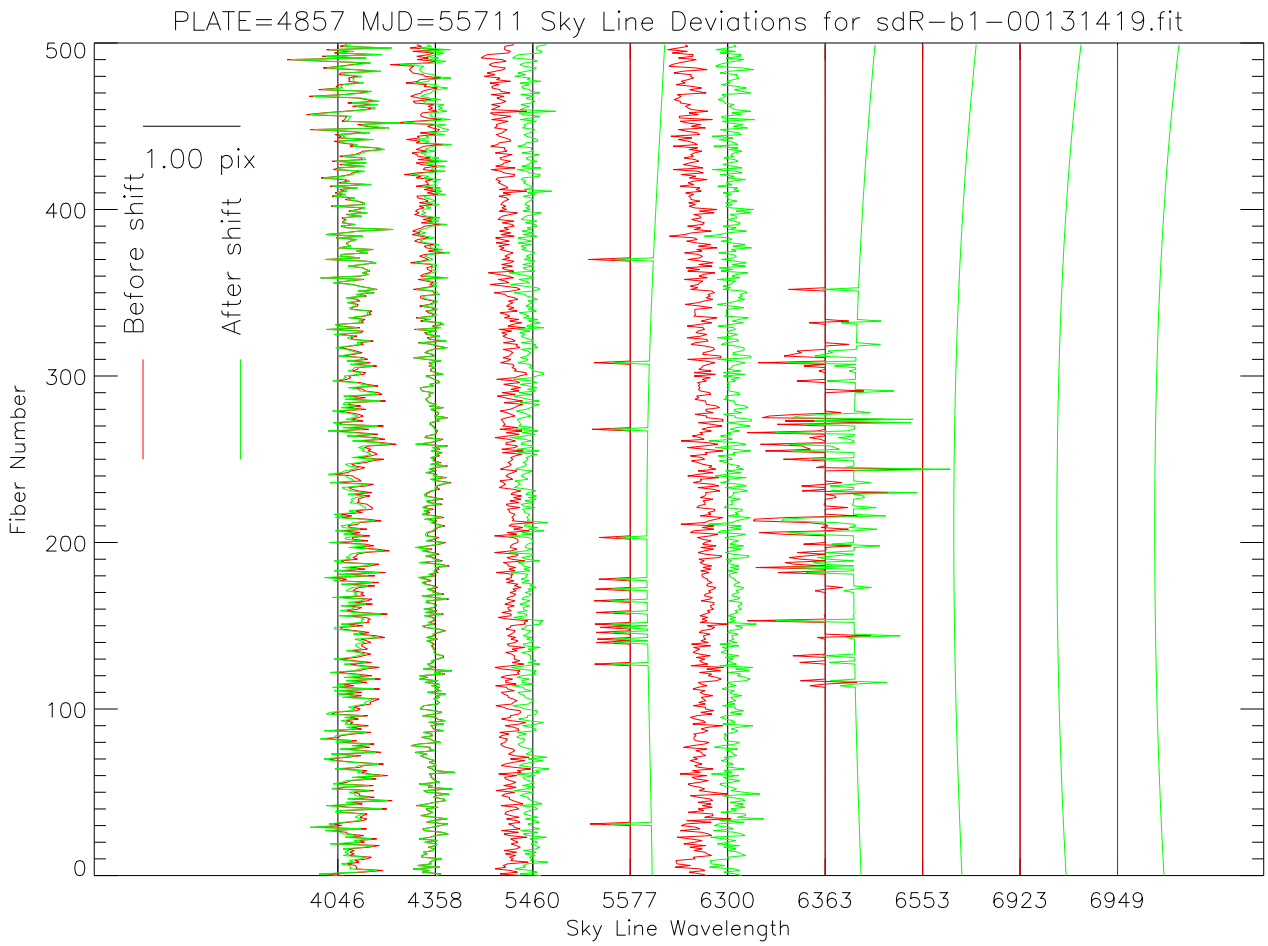


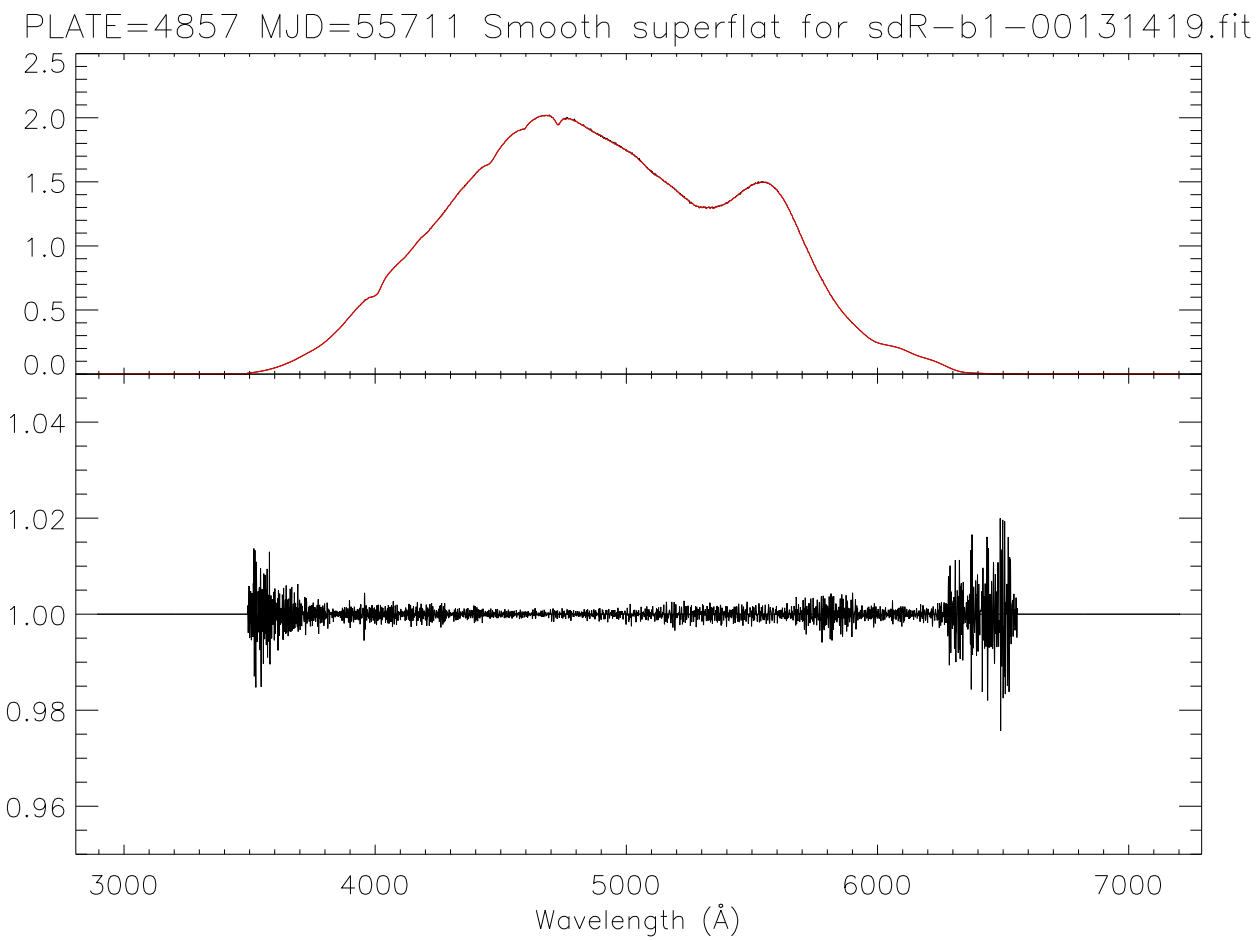

PLATE=4857 MJD=55711 sdR-b1-00131418.fit Skyline Flux at 4359.5
RED = sky fiber
Dispersion = 19.95 %
Flux (4359.5)/Airmass
Fiber number
Focal Distance [mm]
Airmass

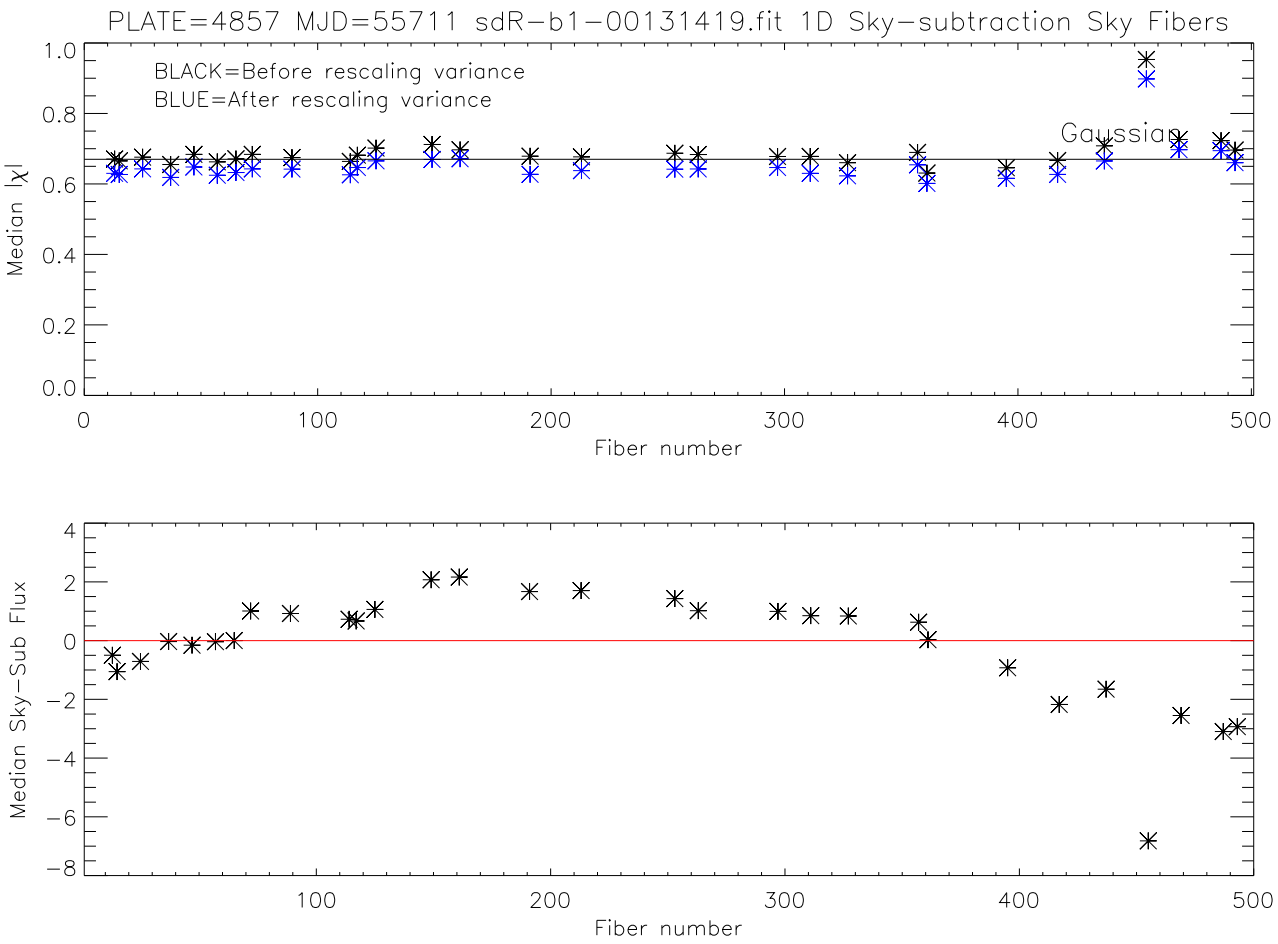

PLATE=4857 MJD=55711 sdR-b1-00131418.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
Dispersion = 27.61 %
Focal Distance [mm]
Airmass

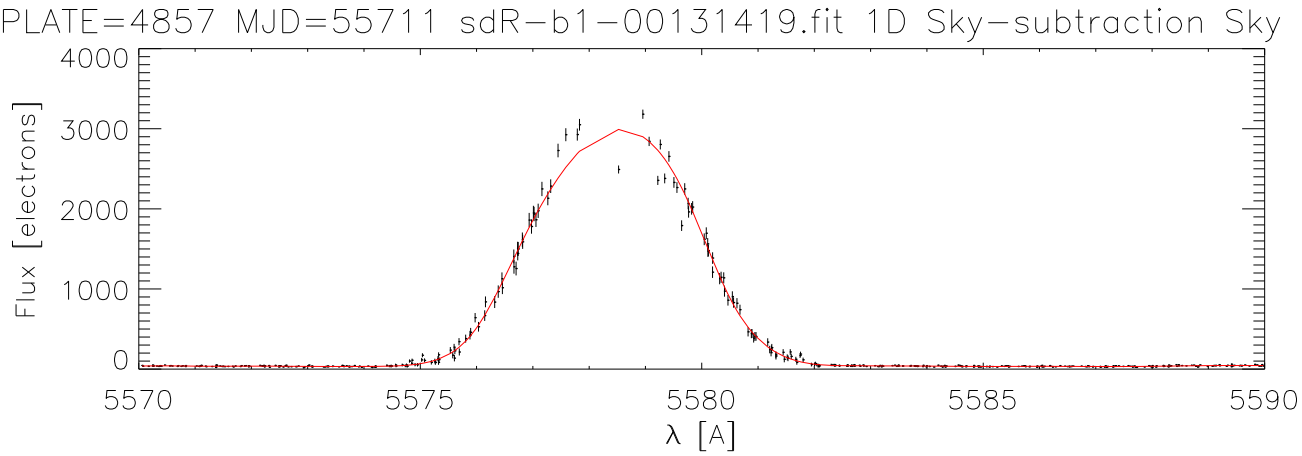

PLATE=4857 MJD=55711 Fiber−Flats for sdR−b1−00131414.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −6.477
Max value = 10.152
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Wed Nov 18 17:09:03 2015

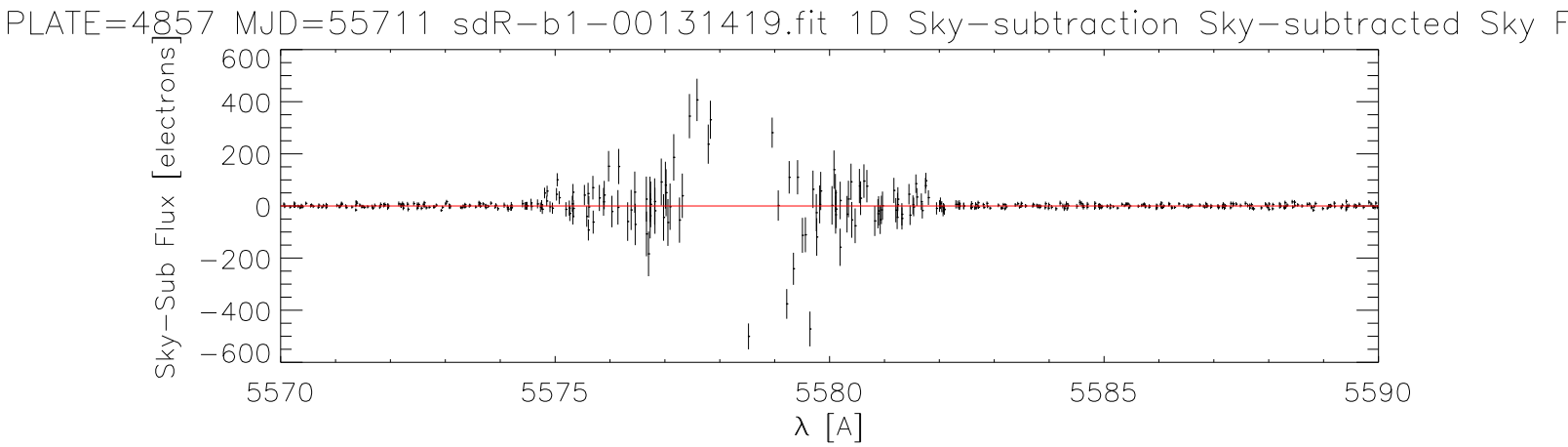

PLATE=4857 MJD=55711 Extraction chi$^2$ for sdR-b1-00131419.fit
BLACK = Final chisq extraction
$\chi^2$
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=4857 MJD=55711 Sky Line Deviations for sdR-b1-00131419.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

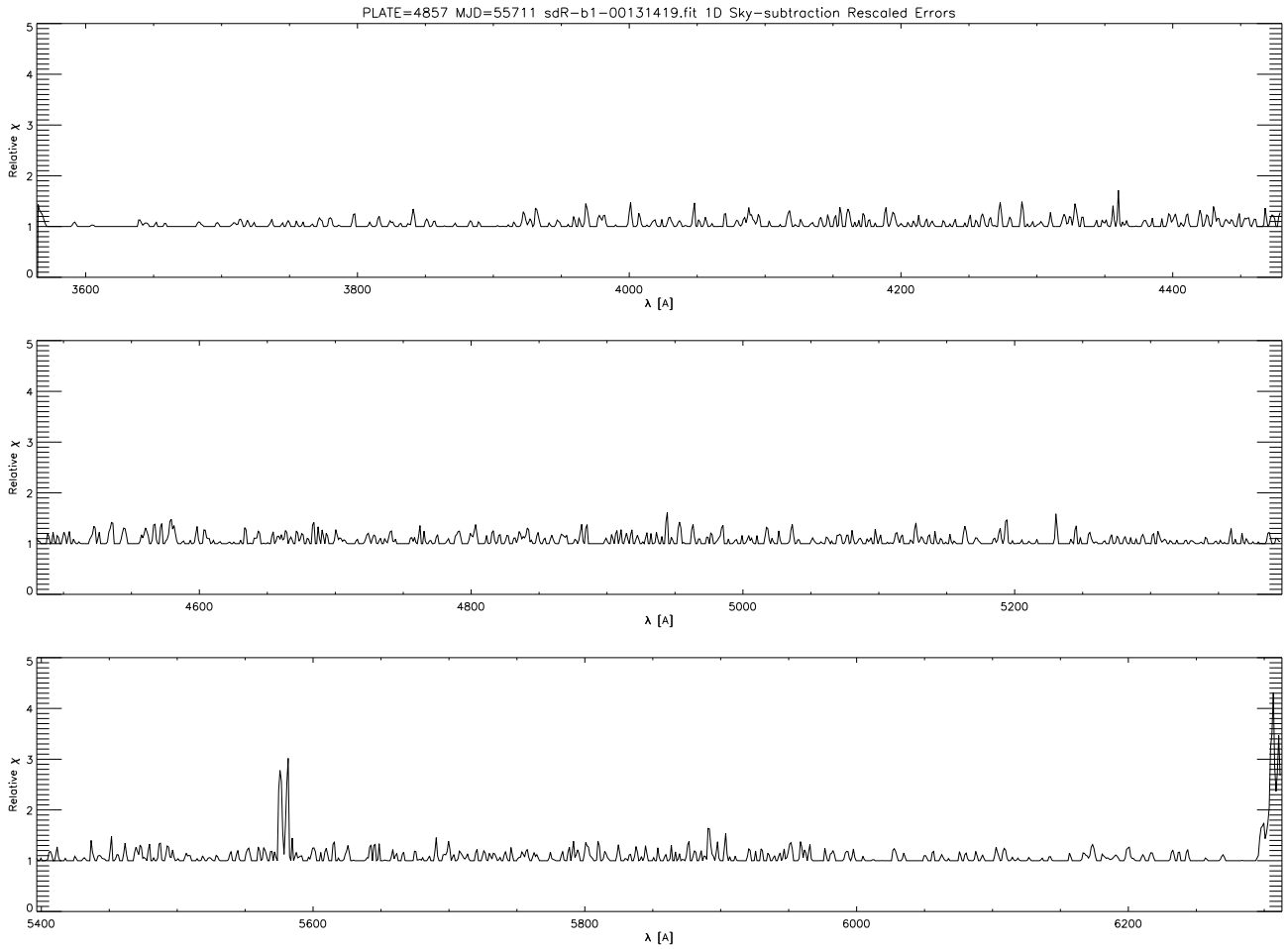

PLATE=4857 MJD=55711 Smooth superflat for sdR-b1-00131419.fit
2.5
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

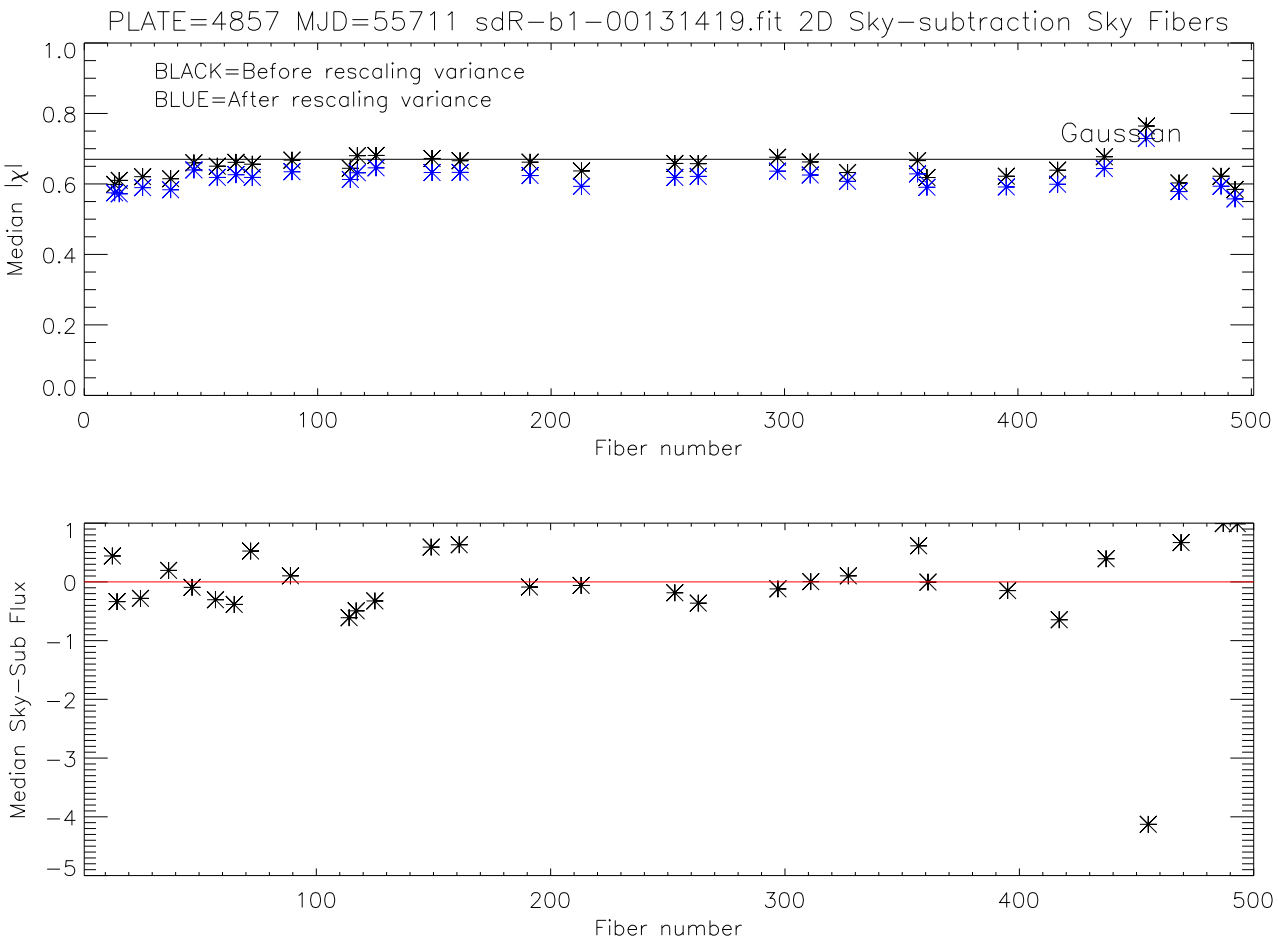

PLATE=4857 MJD=55711 sdR-b1-00131419.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

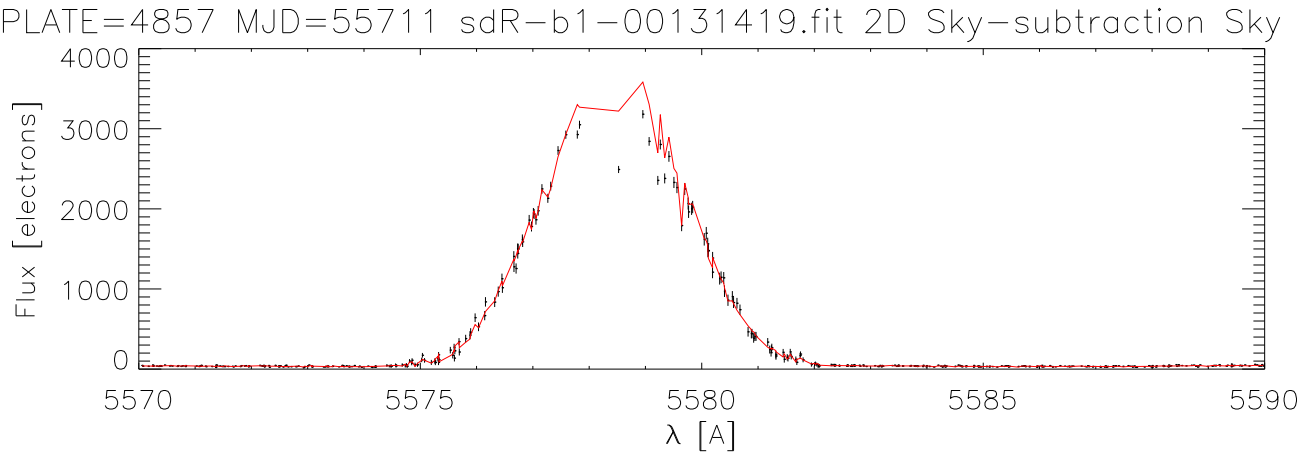

PLATE=4857 MJD=55711 sdR-b1-00131419.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

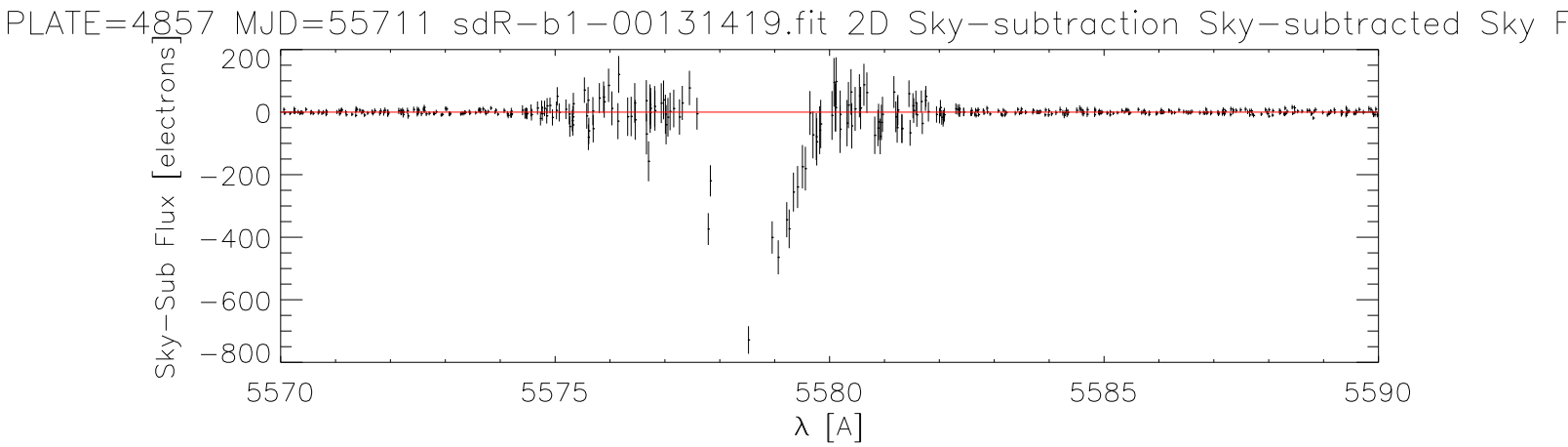

PLATE=4857 MJD=55711 sdR-b1-00131419.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 30

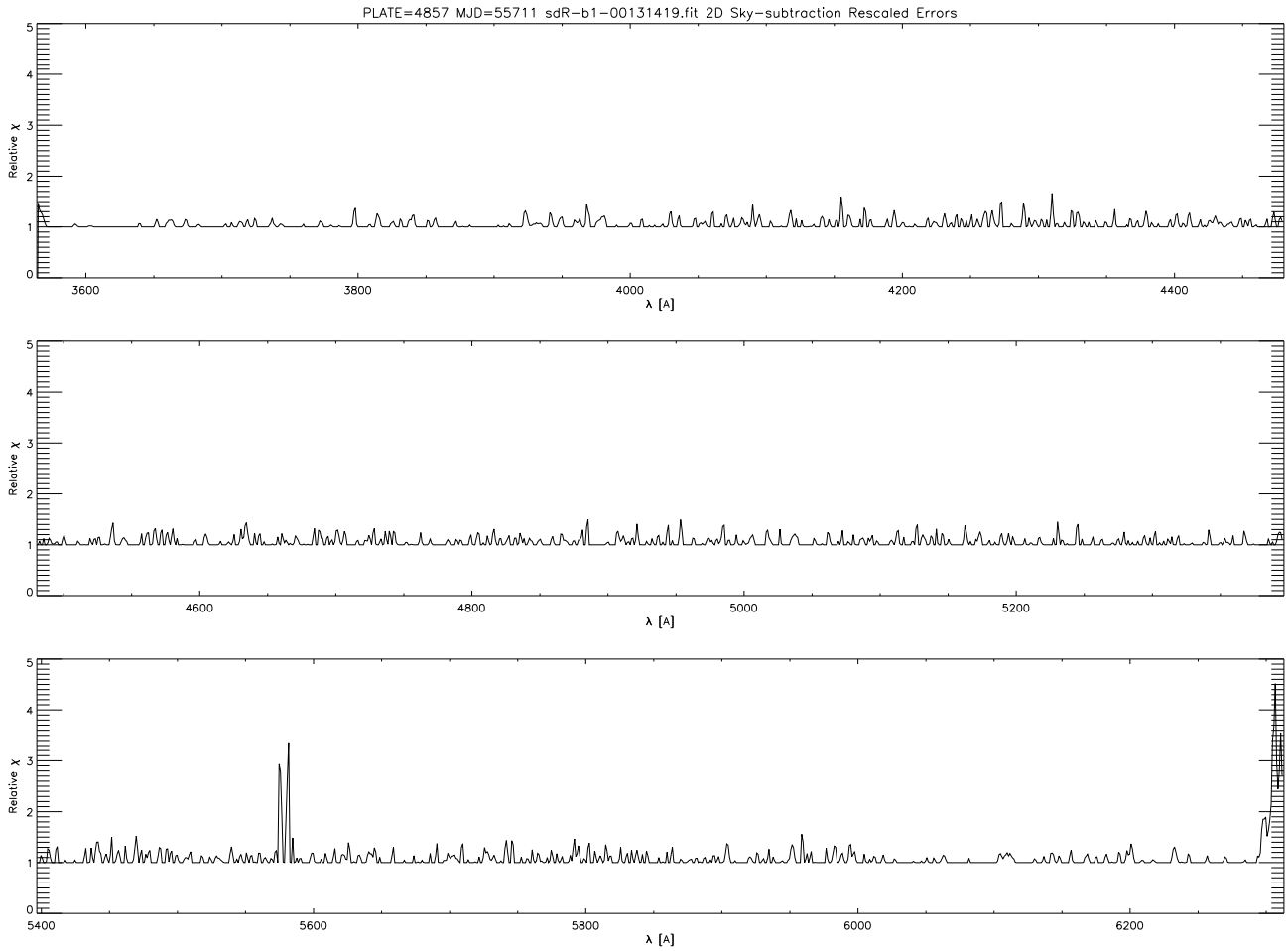


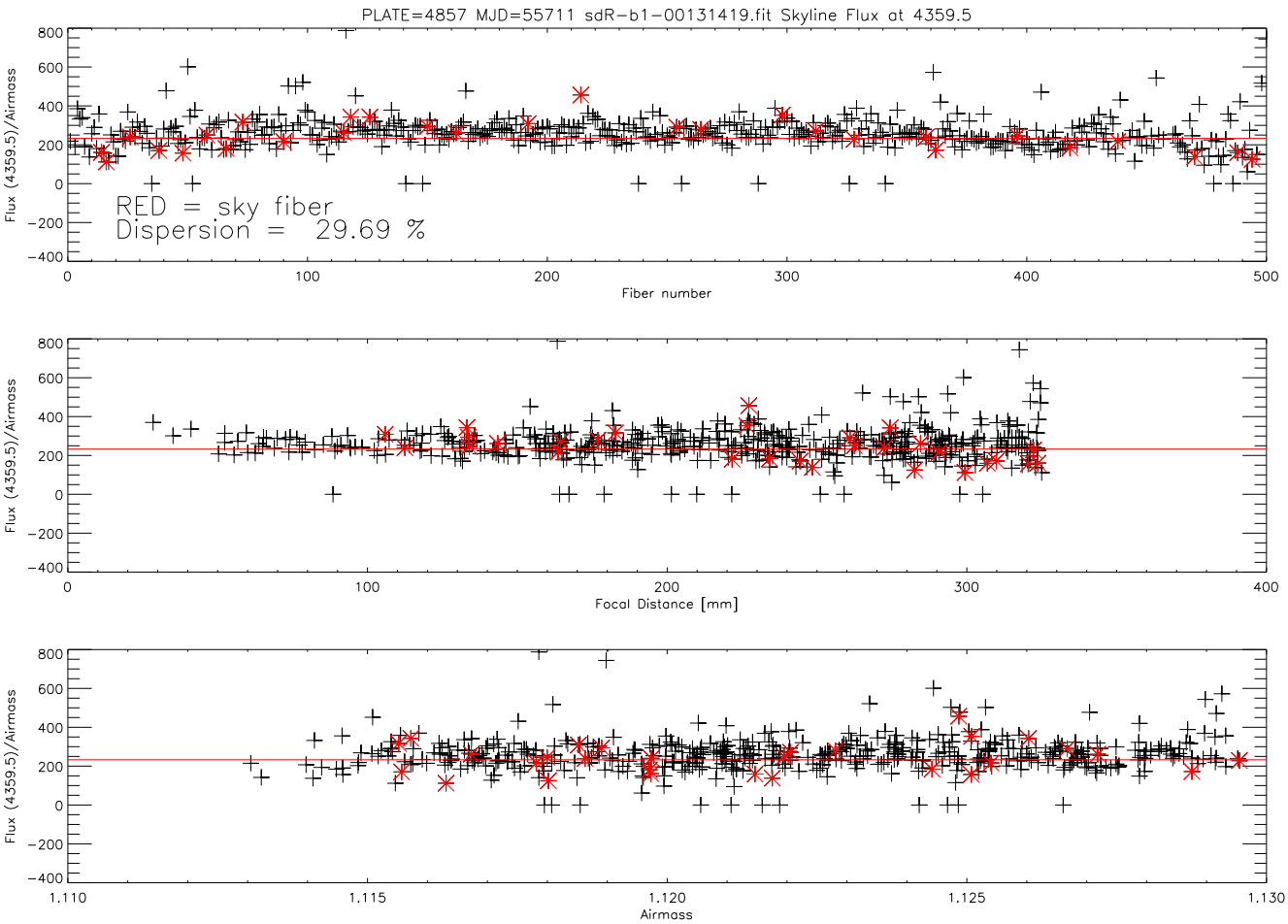

PLATE=4857 MJD=55711 sdR-b1-00131419.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

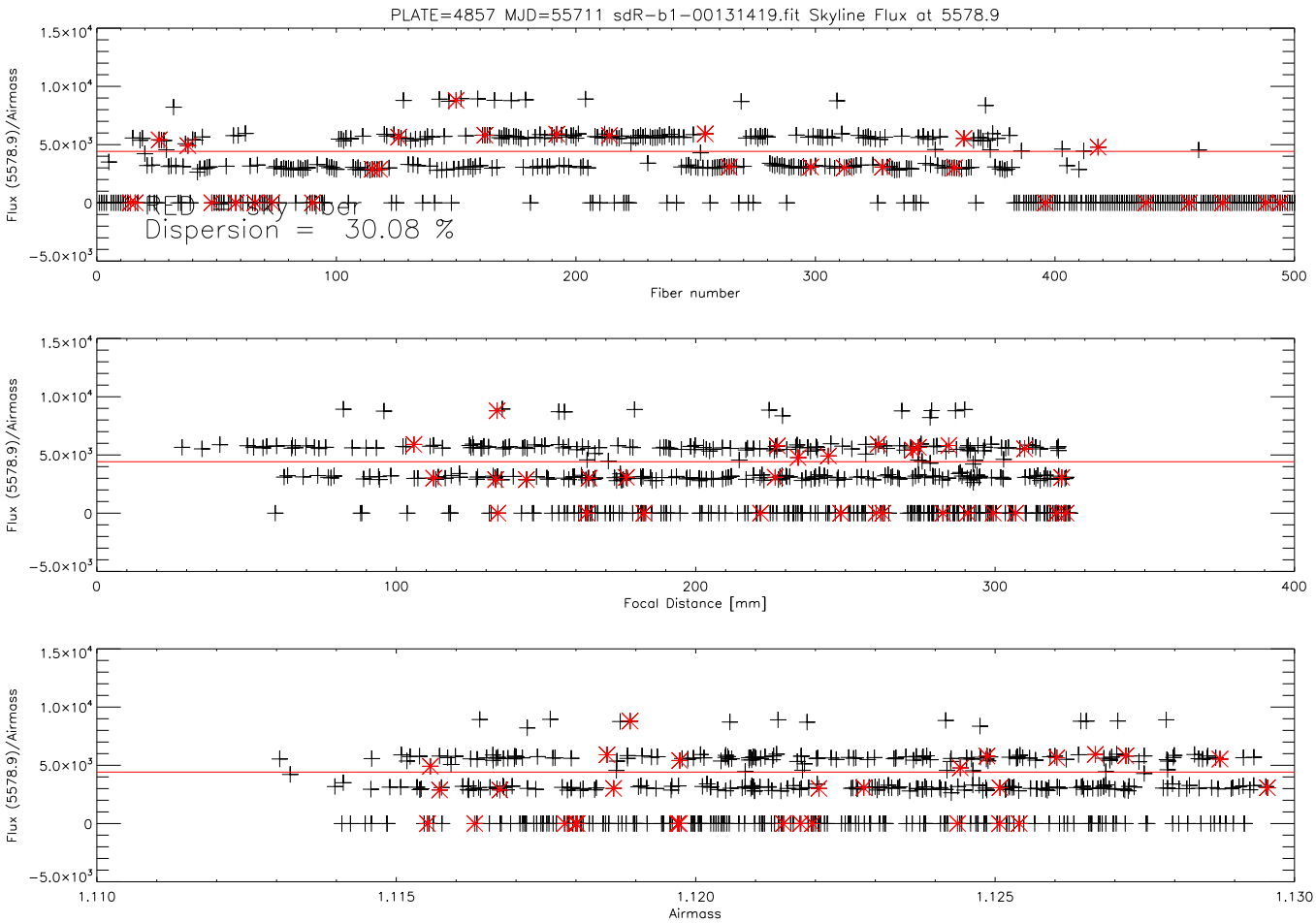

PLATE=4857 MJD=55711 sdR-b1-00131419.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]


PLATE=4857 MJD=55711 sdR-b1-00131419.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
0
-200
-400
-600
-800
5570
5575
5580
5585
5590
λ [A]

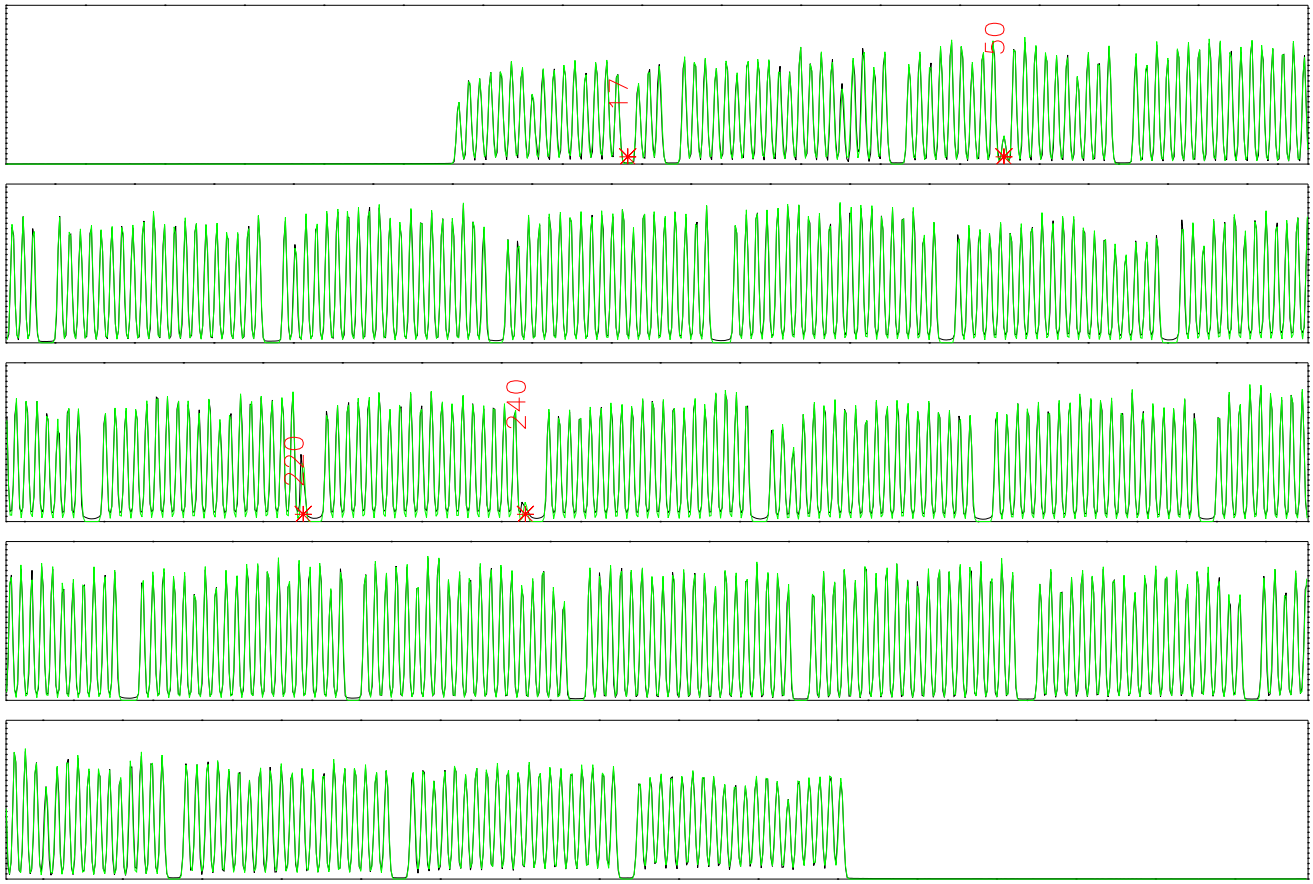
Number of sky fibers = 30

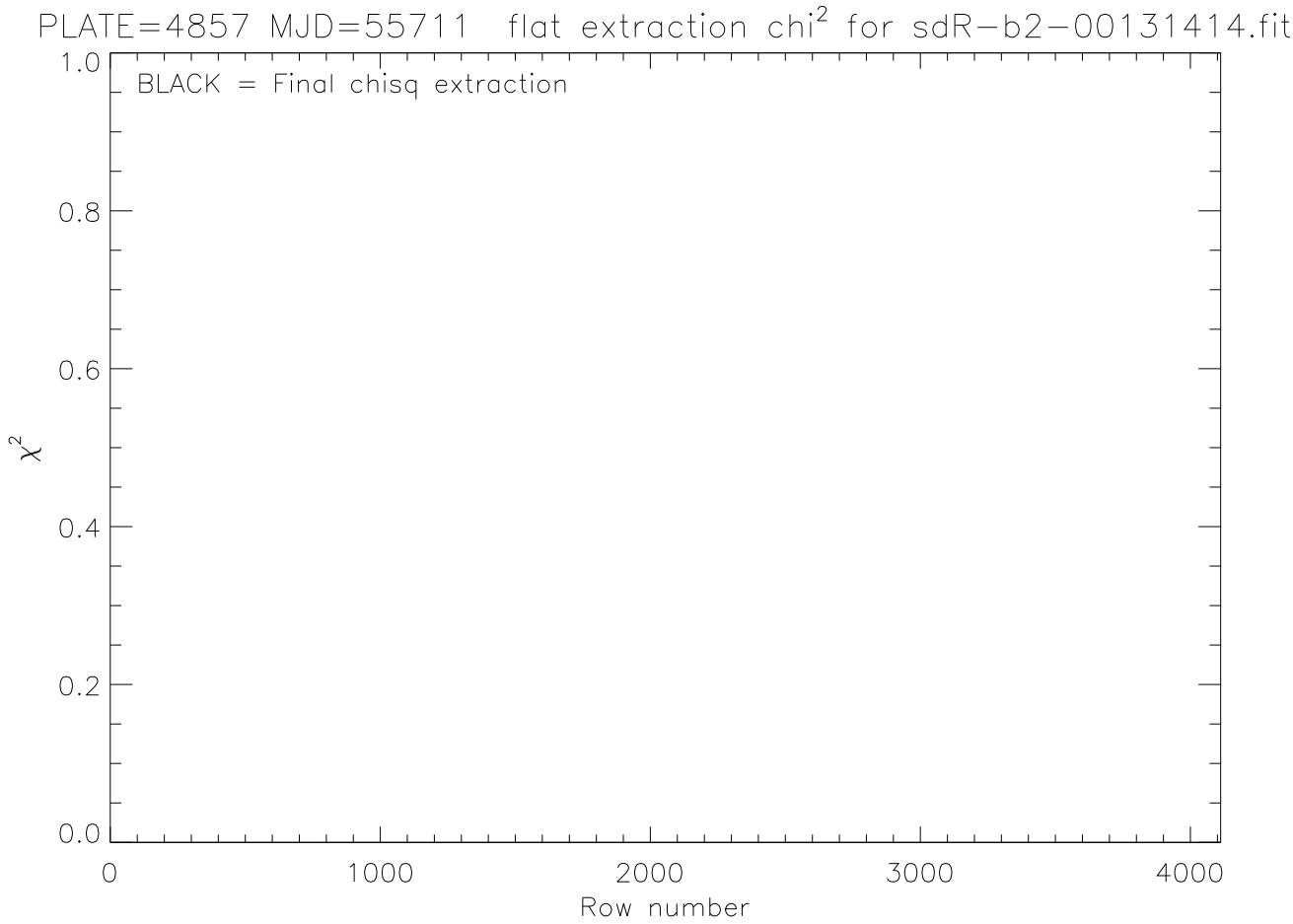


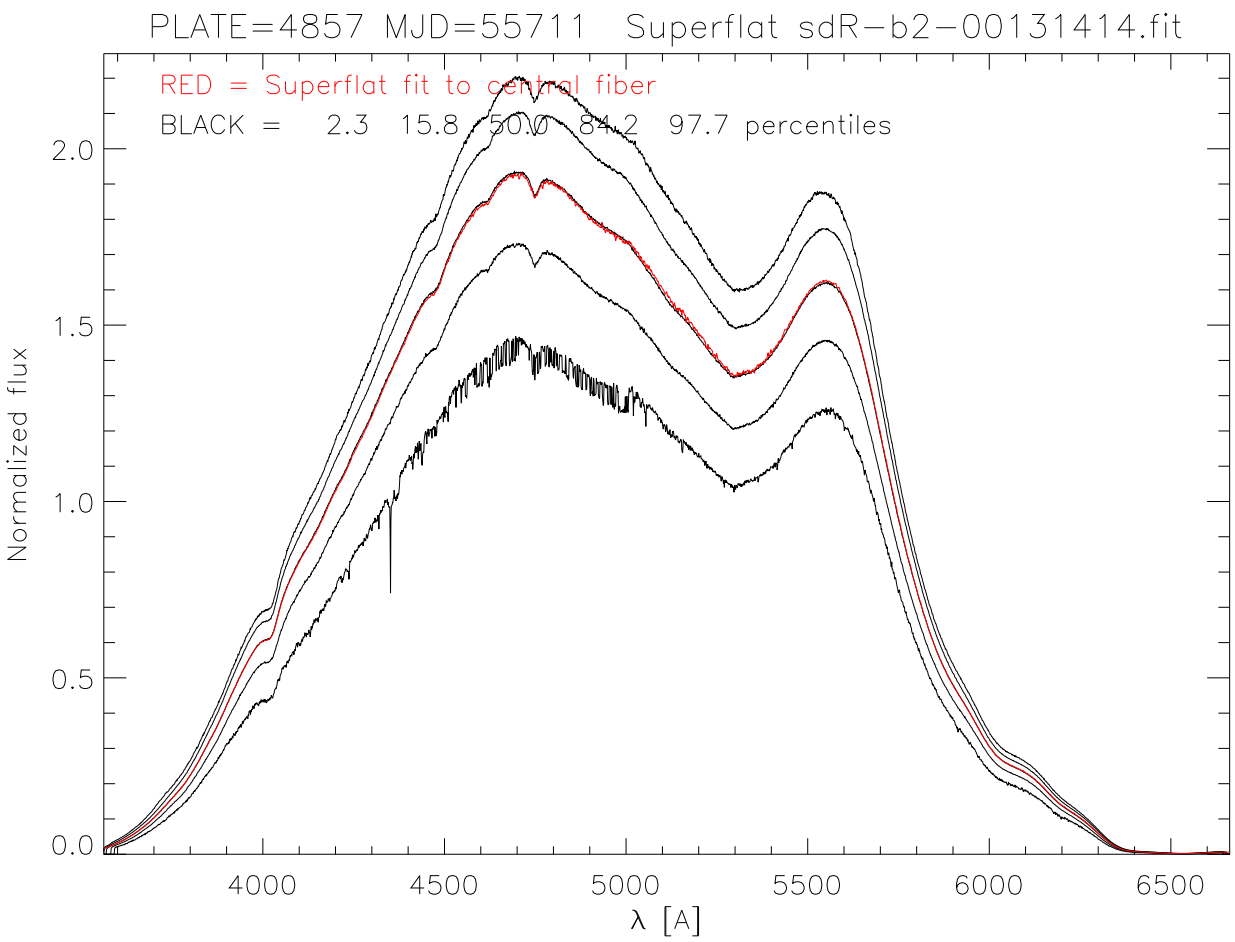

PLATE=4857 MJD=55711 sdR-b1-00131419.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 29.69 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

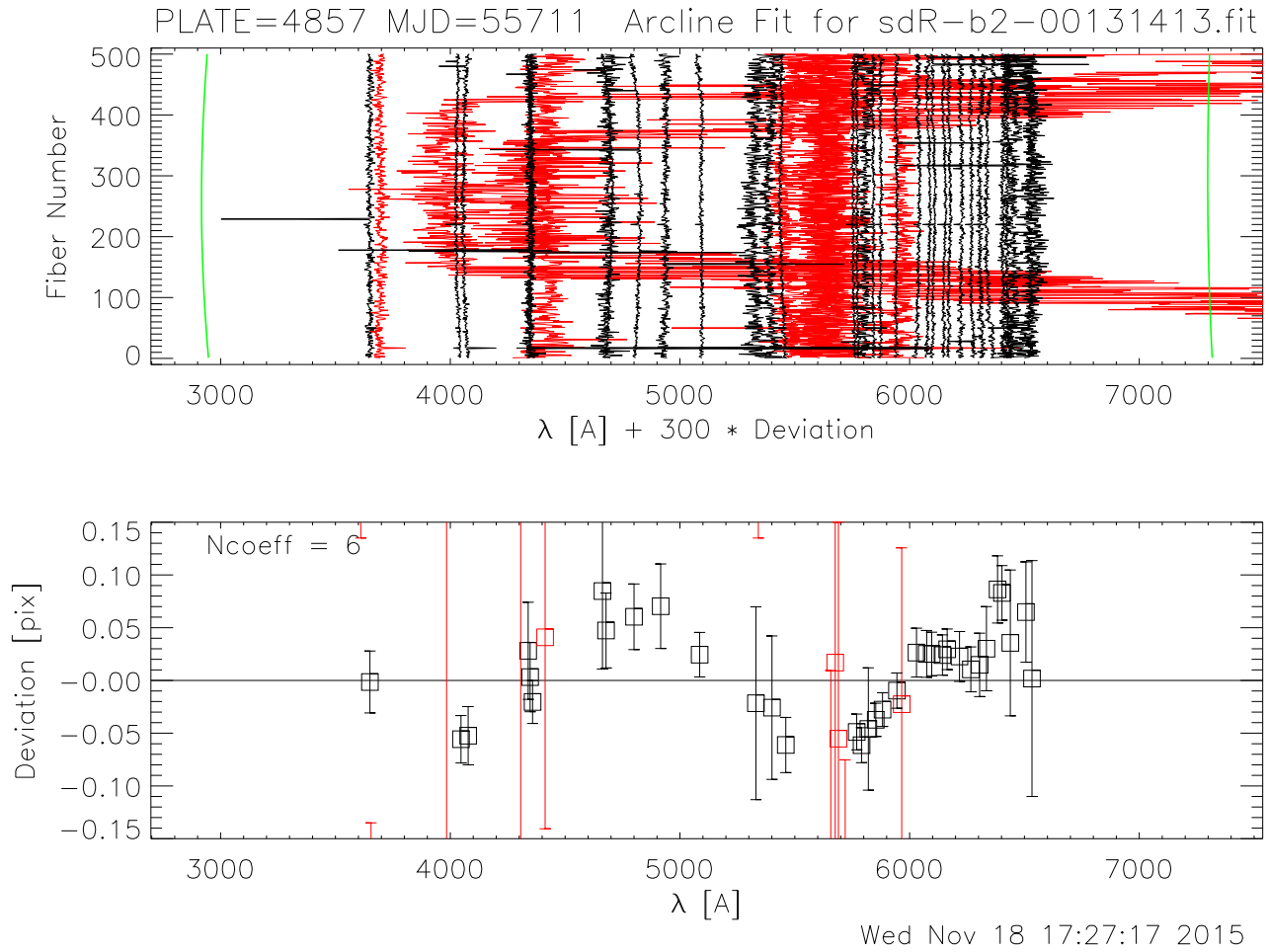

PLATE=4857 MJD=55711 sdR-b1-00131419.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Red sky fiber
Dispersion = 30.08 %
Fiber number
Focal Distance [mm]
Airmass

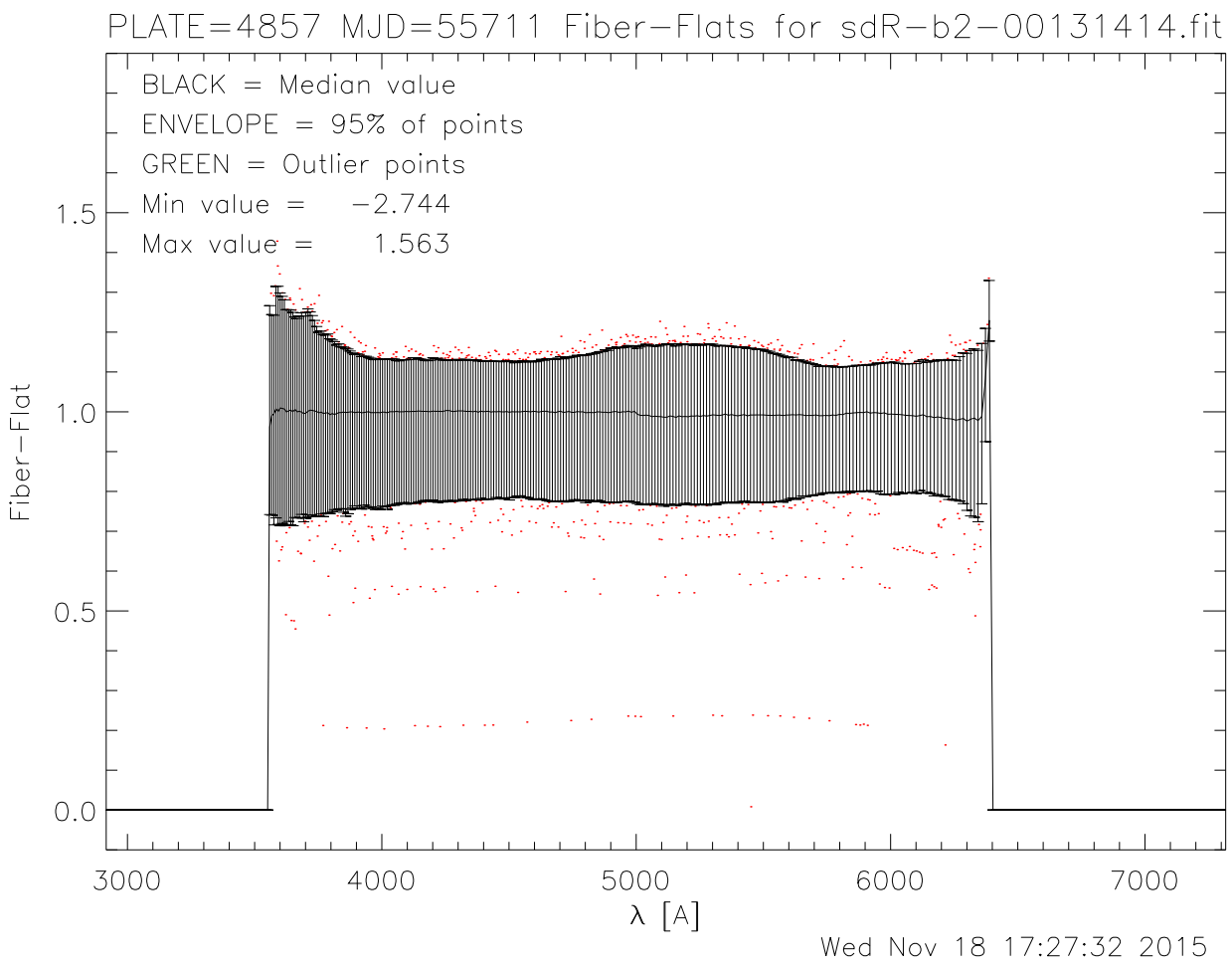
PLATE=4857 MJD=55711 Traces sdR-b2-00131414.fit

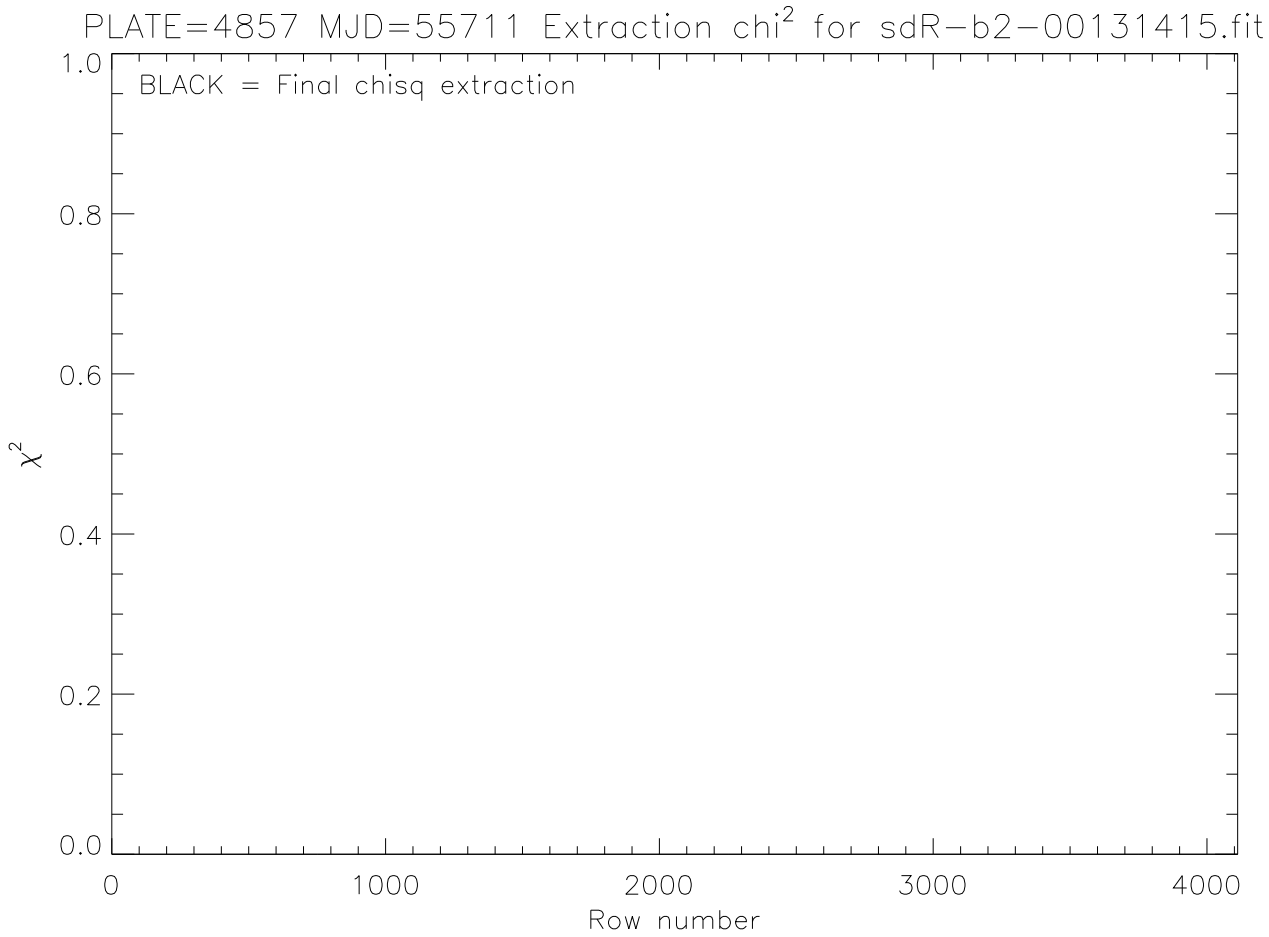


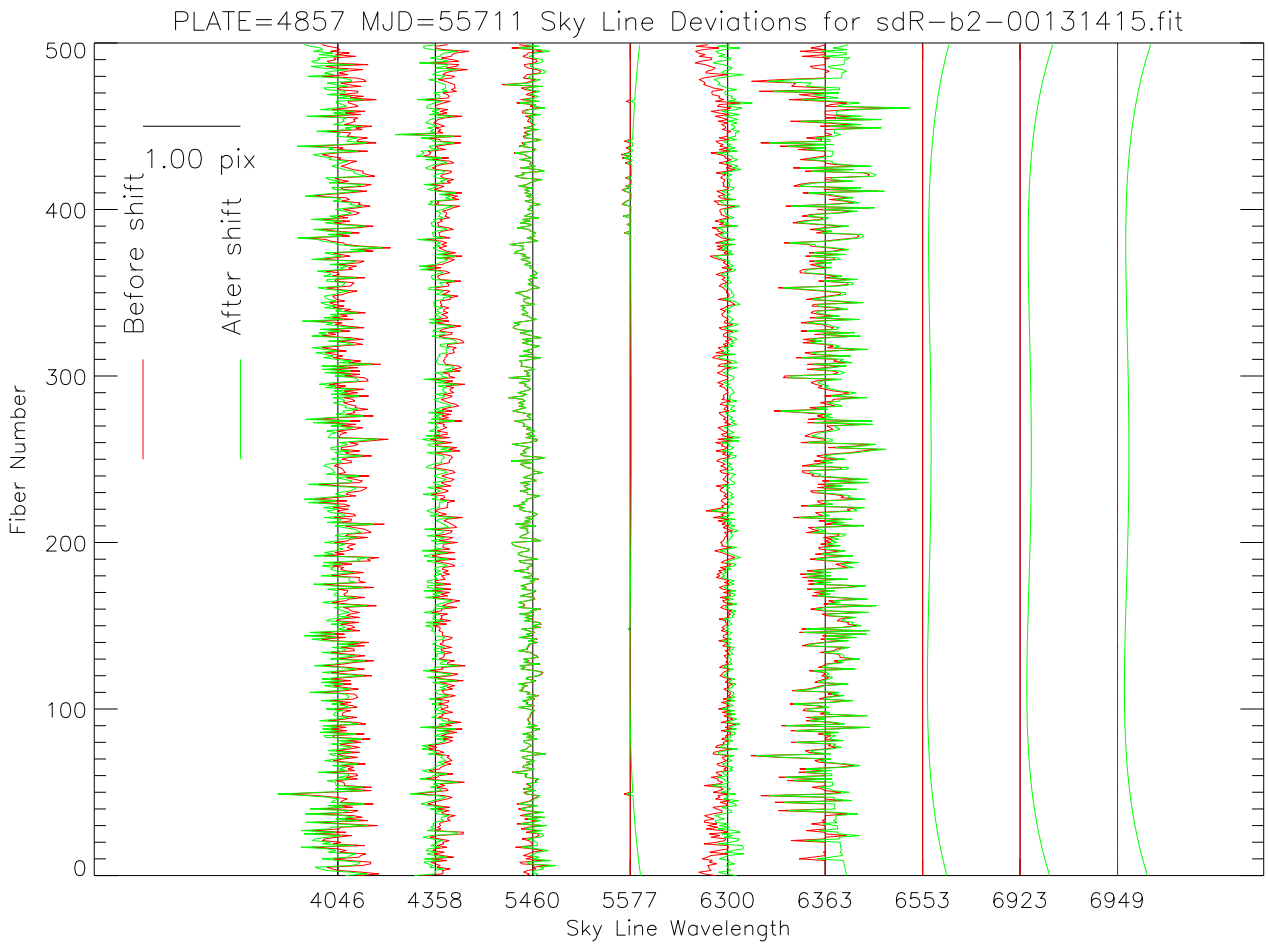

PLATE=4857 MJD=55711 flat extraction chi$^2$ for sdR−b2−00131414.fit
BLACK = Final chisq extraction
$\chi^2$
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number

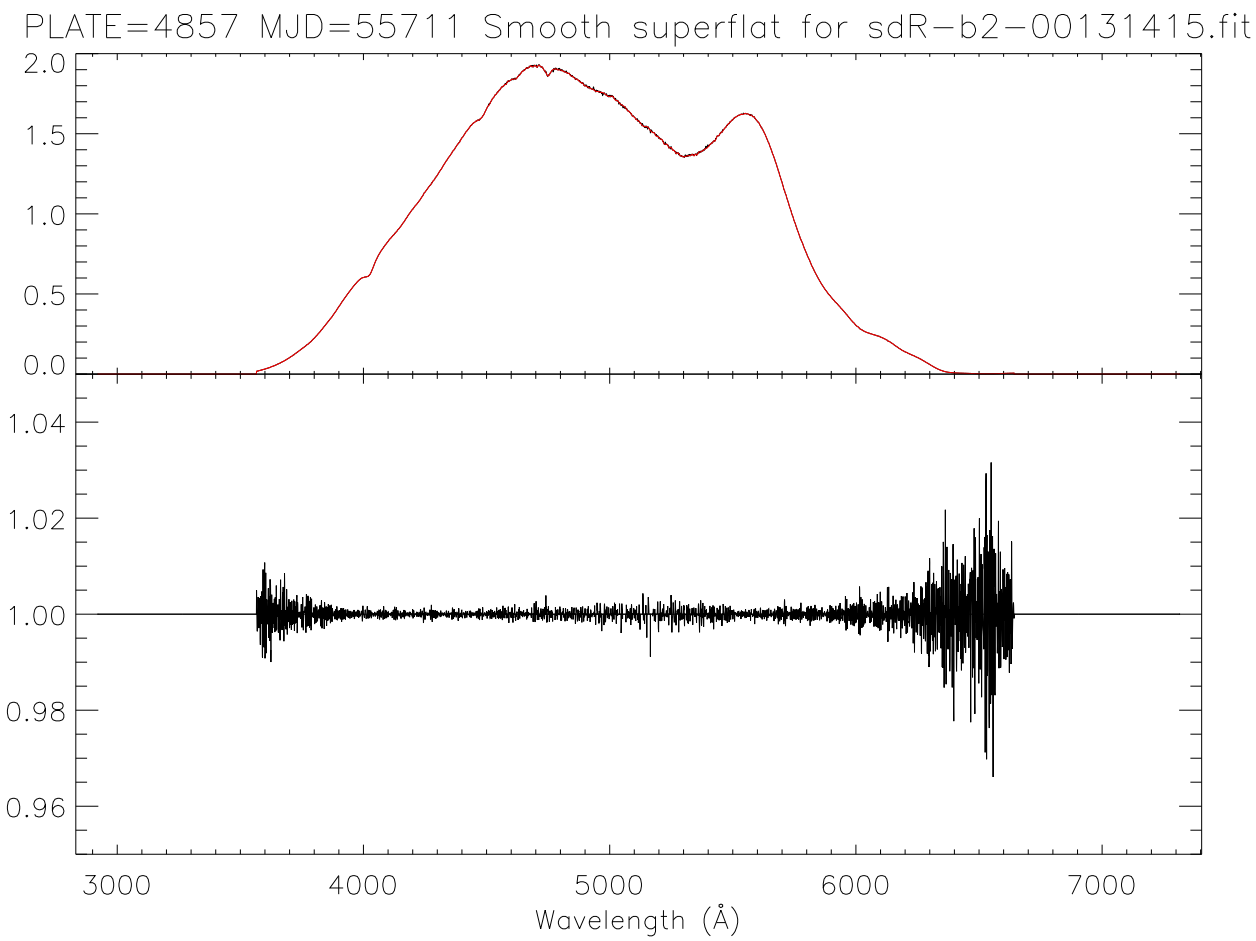

PLATE=4857 MJD=55711 Superflat sdR-b2-00131414.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
4000
4500
5000
5500
6000
6500

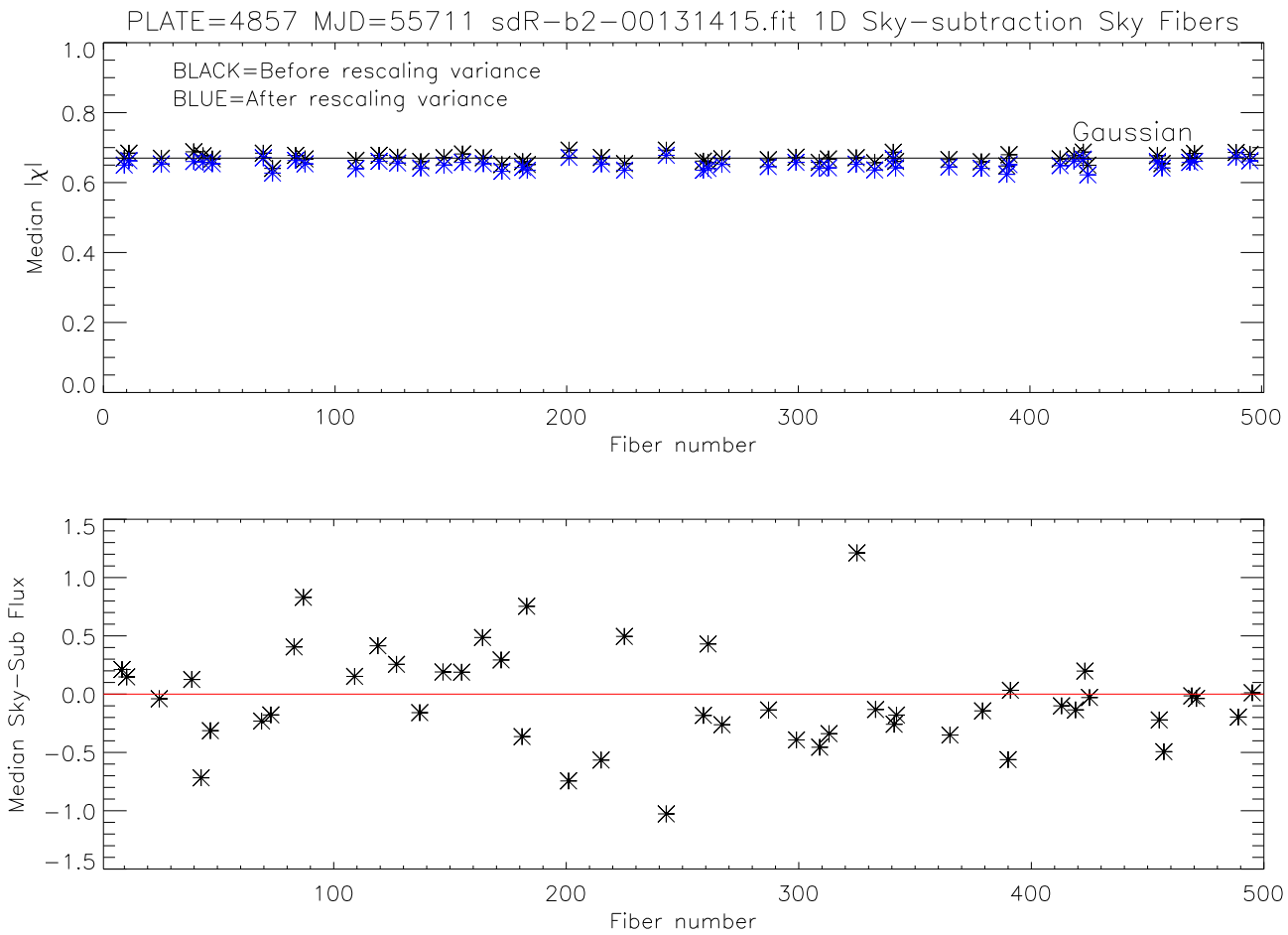

PLATE=4857 MJD=55711 Arcline Fit for sdR-b2-00131413.fit
Fiber Number
500
400
300
200
100
0
3000
4000
5000
6000
7000
λ [A] + 300 * Deviation
Ncoeff = 6
Deviation [pix]
0.15
0.10
0.05
−0.00
−0.05
−0.10
−0.15
3000
4000
5000
6000
7000
λ [A]
Wed Nov 18 17:27:17 2015

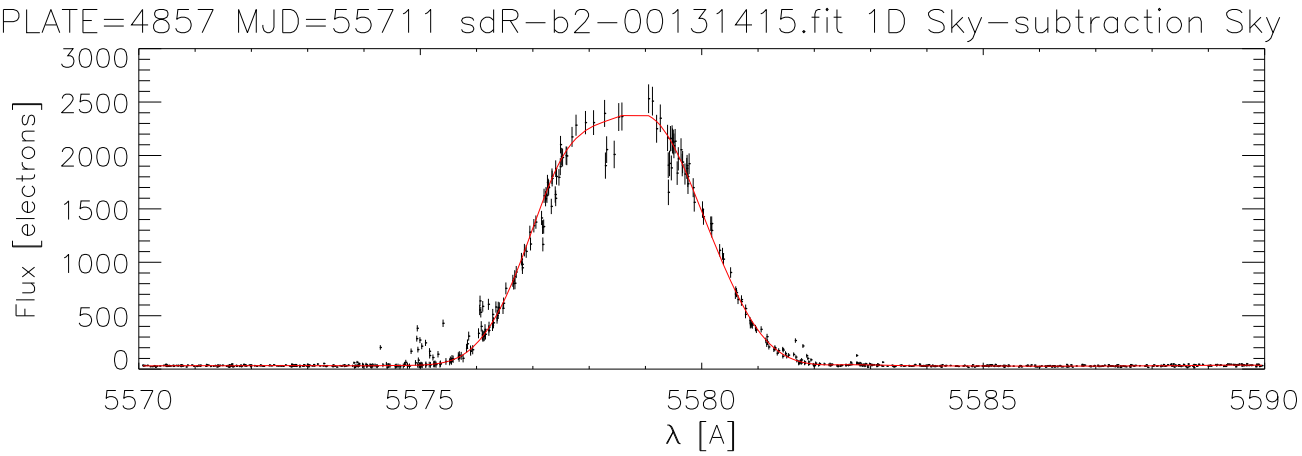

PLATE=4857 MJD=55711 Fiber−Flats for sdR−b2−00131414.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −2.744
Max value = 1.563
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Wed Nov 18 17:27:32 2015

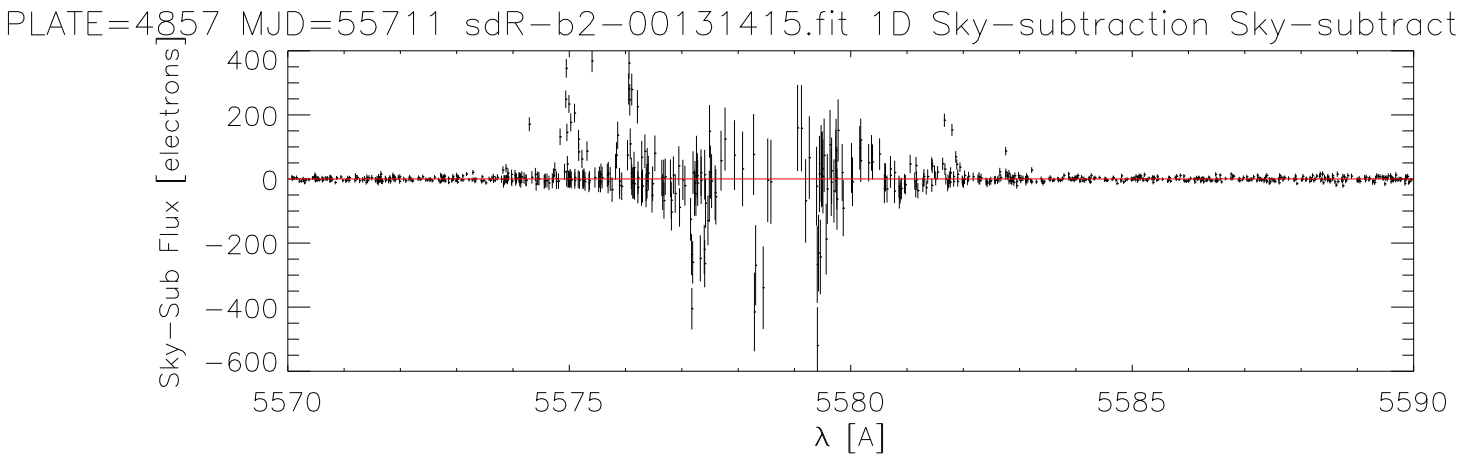

PLATE=4857 MJD=55711 Extraction chi$^2$ for sdR-b2-00131415.fit
BLACK = Final chisq extraction
$\chi^2$
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=4857 MJD=55711 Sky Line Deviations for sdR-b2-00131415.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

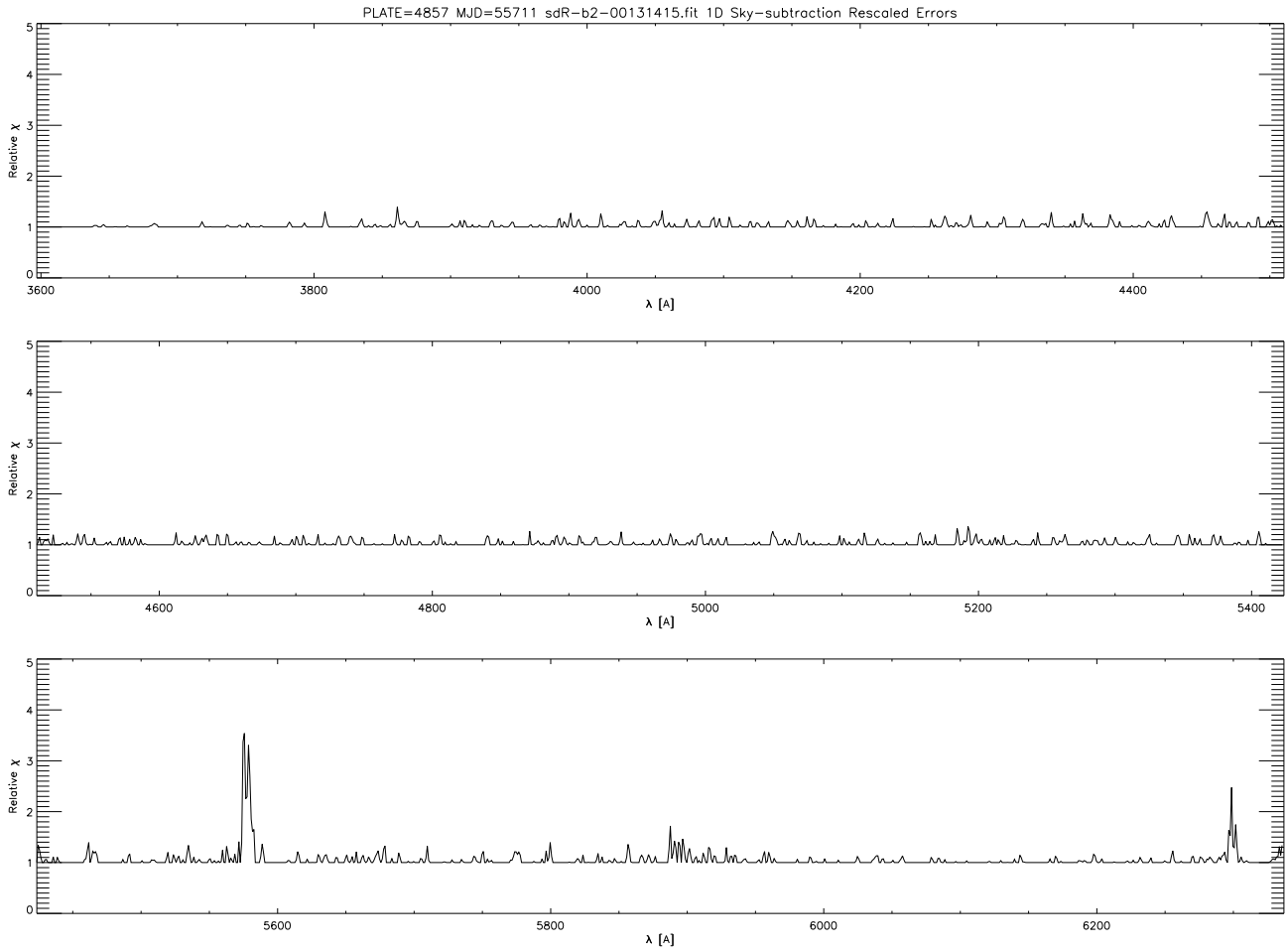

PLATE=4857 MJD=55711 Smooth superflat for sdR-b2-00131415.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

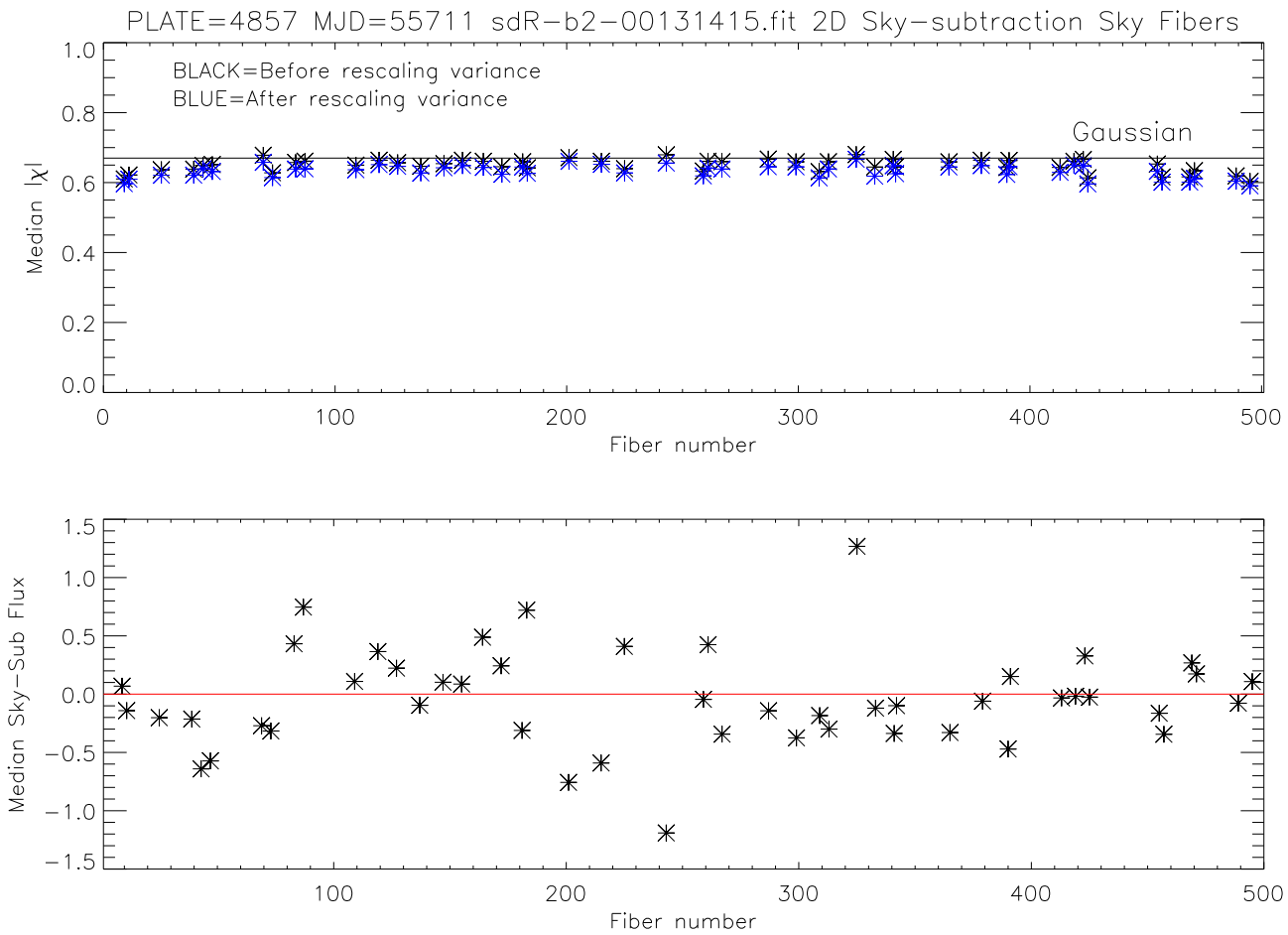

PLATE=4857 MJD=55711 sdR-b2-00131415.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

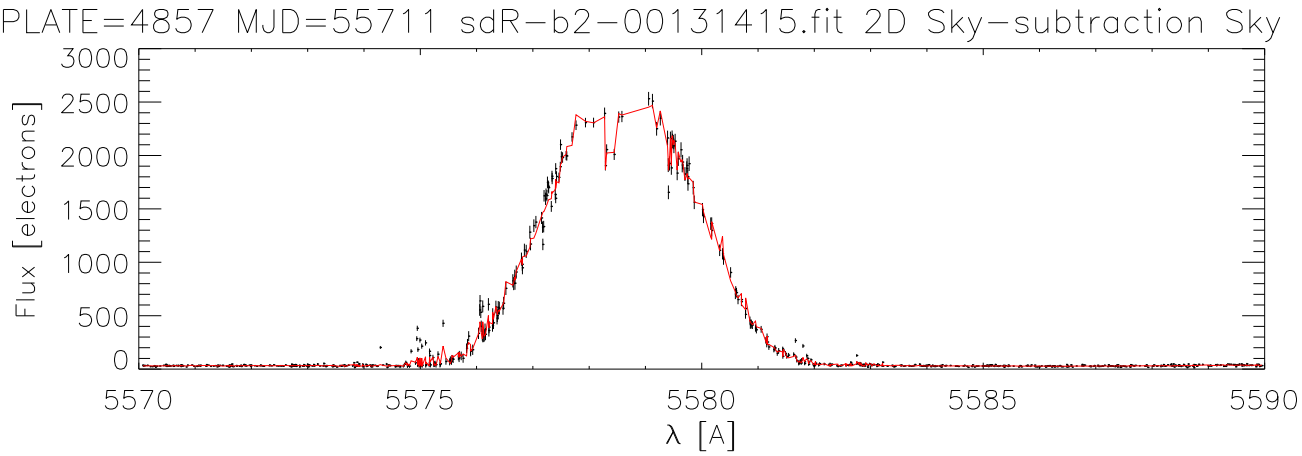

PLATE=4857 MJD=55711 sdR-b2-00131415.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

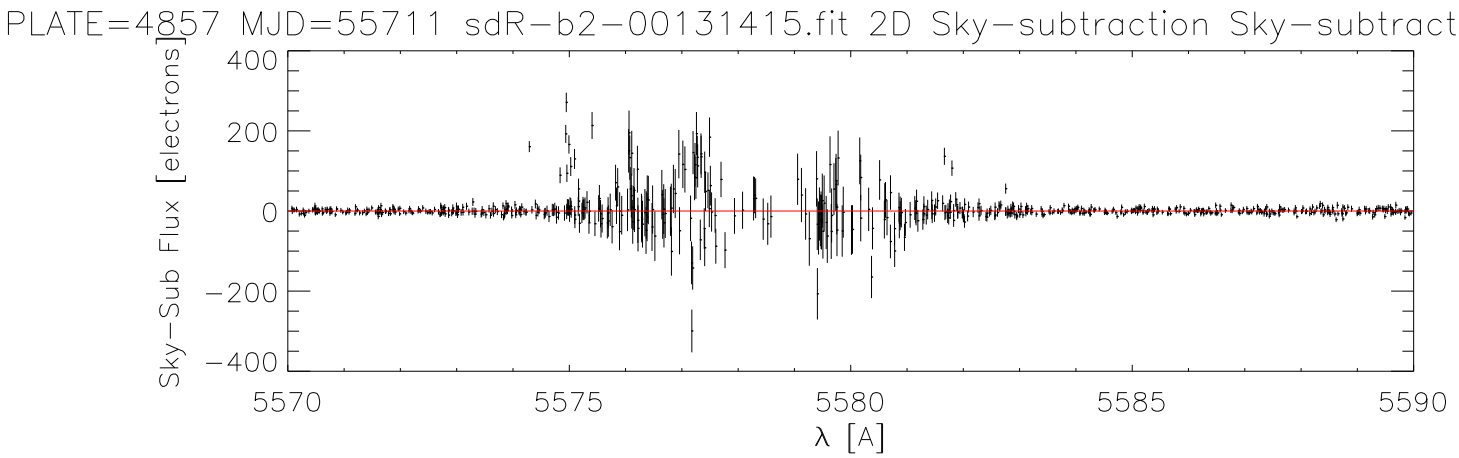

PLATE=4857 MJD=55711 sdR-b2-00131415.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 49

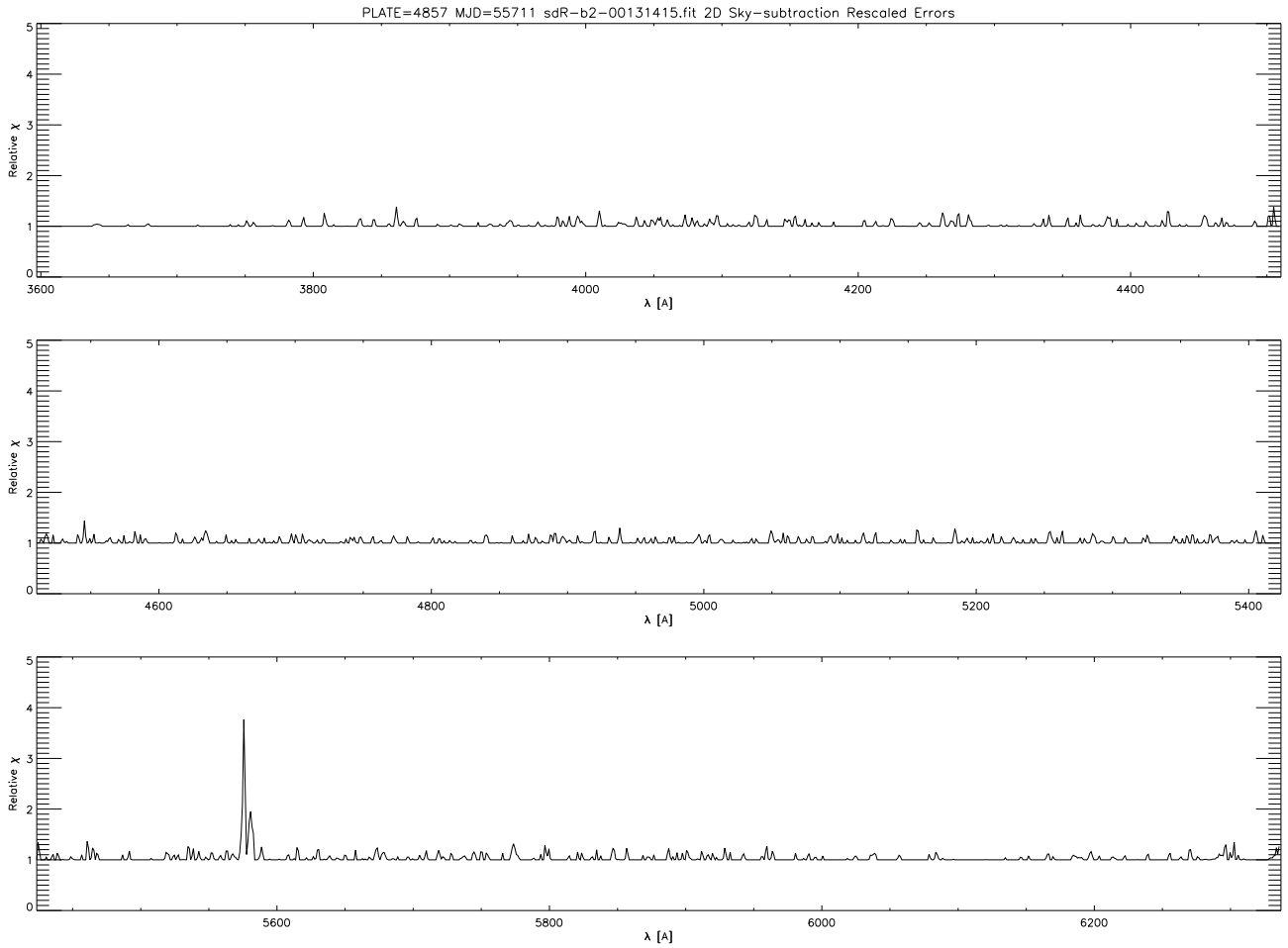


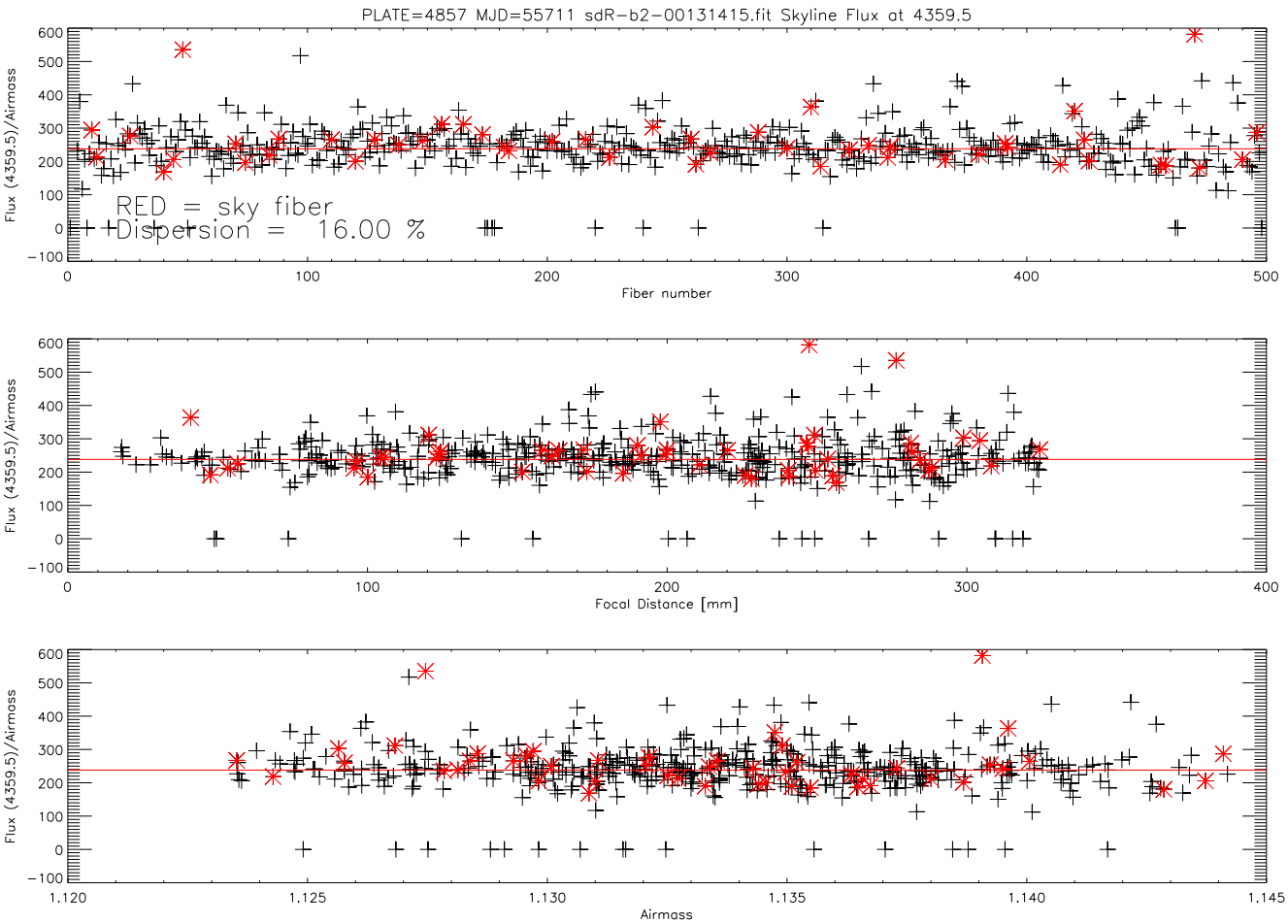

PLATE=4857 MJD=55711 sdR-b2-00131415.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

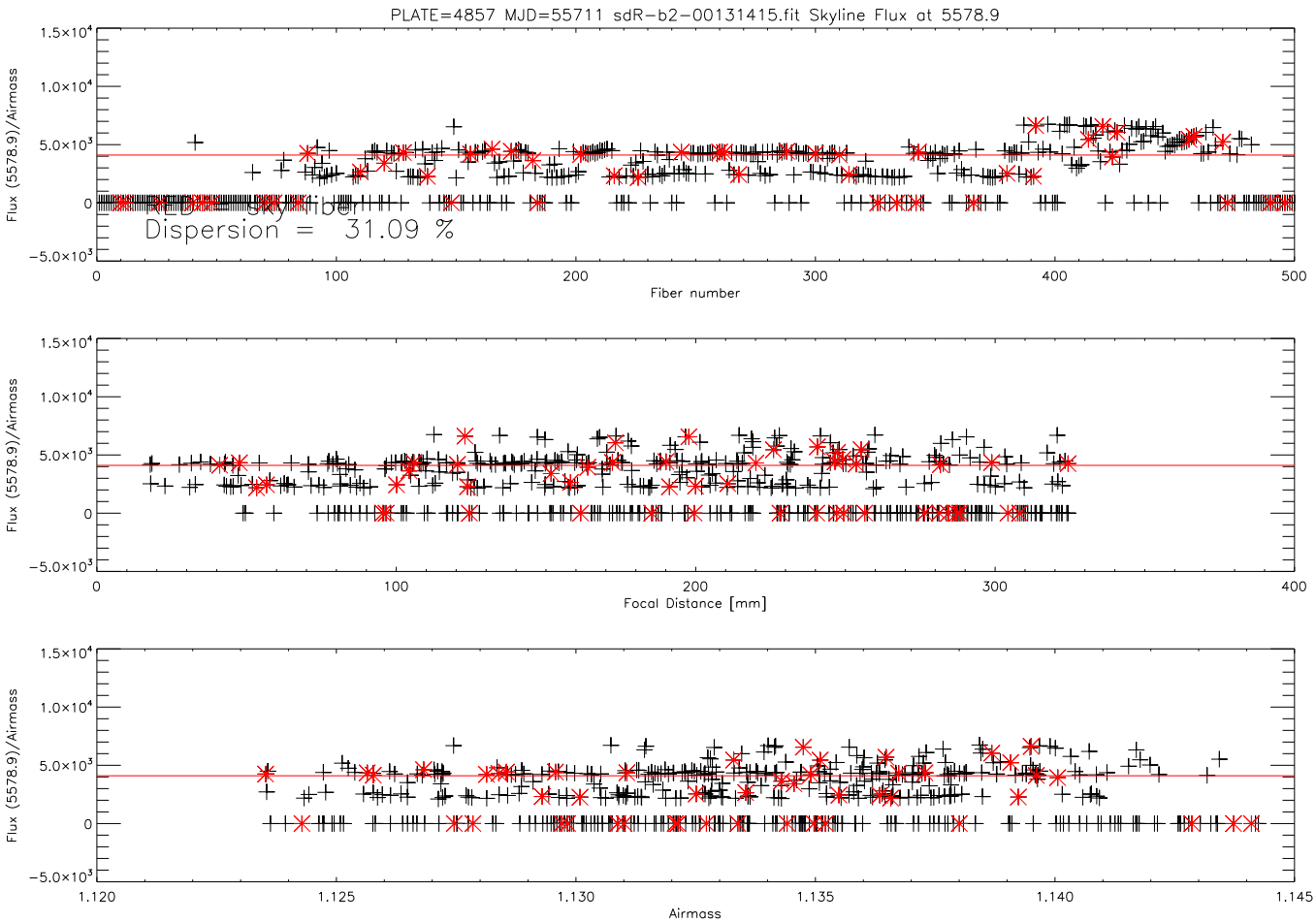

PLATE=4857 MJD=55711 sdR-b2-00131415.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

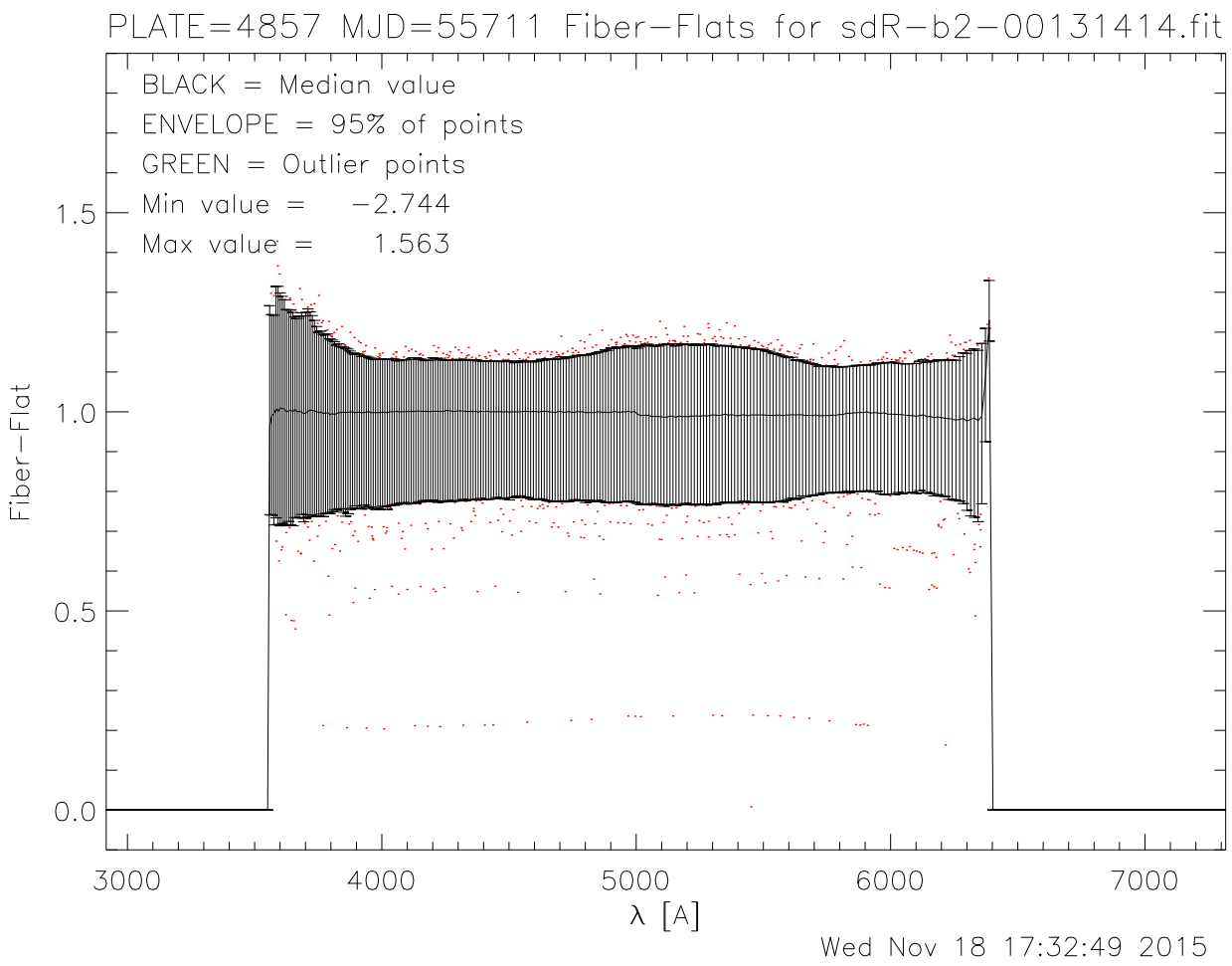

PLATE=4857 MJD=55711 sdR-b2-00131415.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

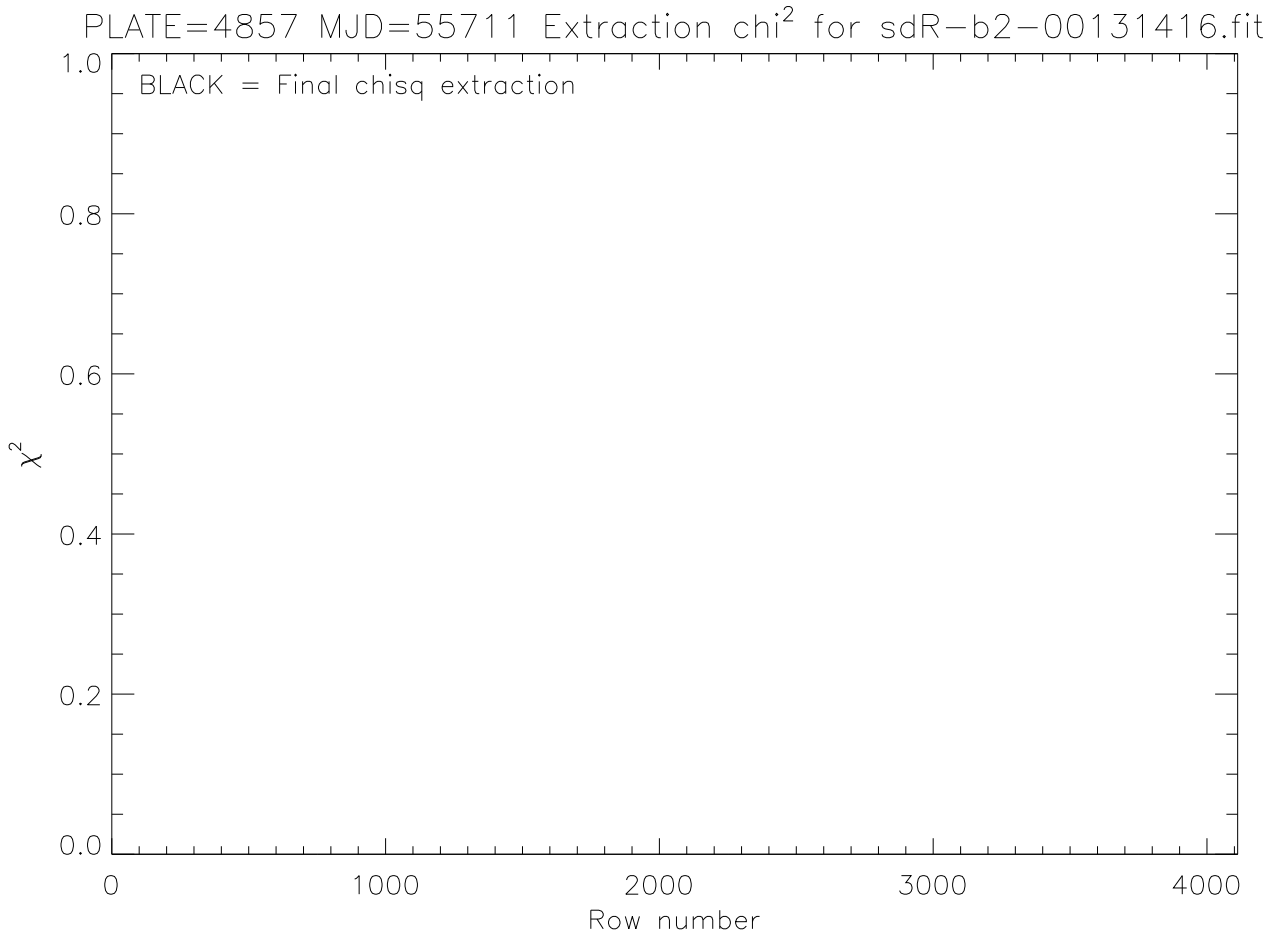
Number of sky fibers = 49

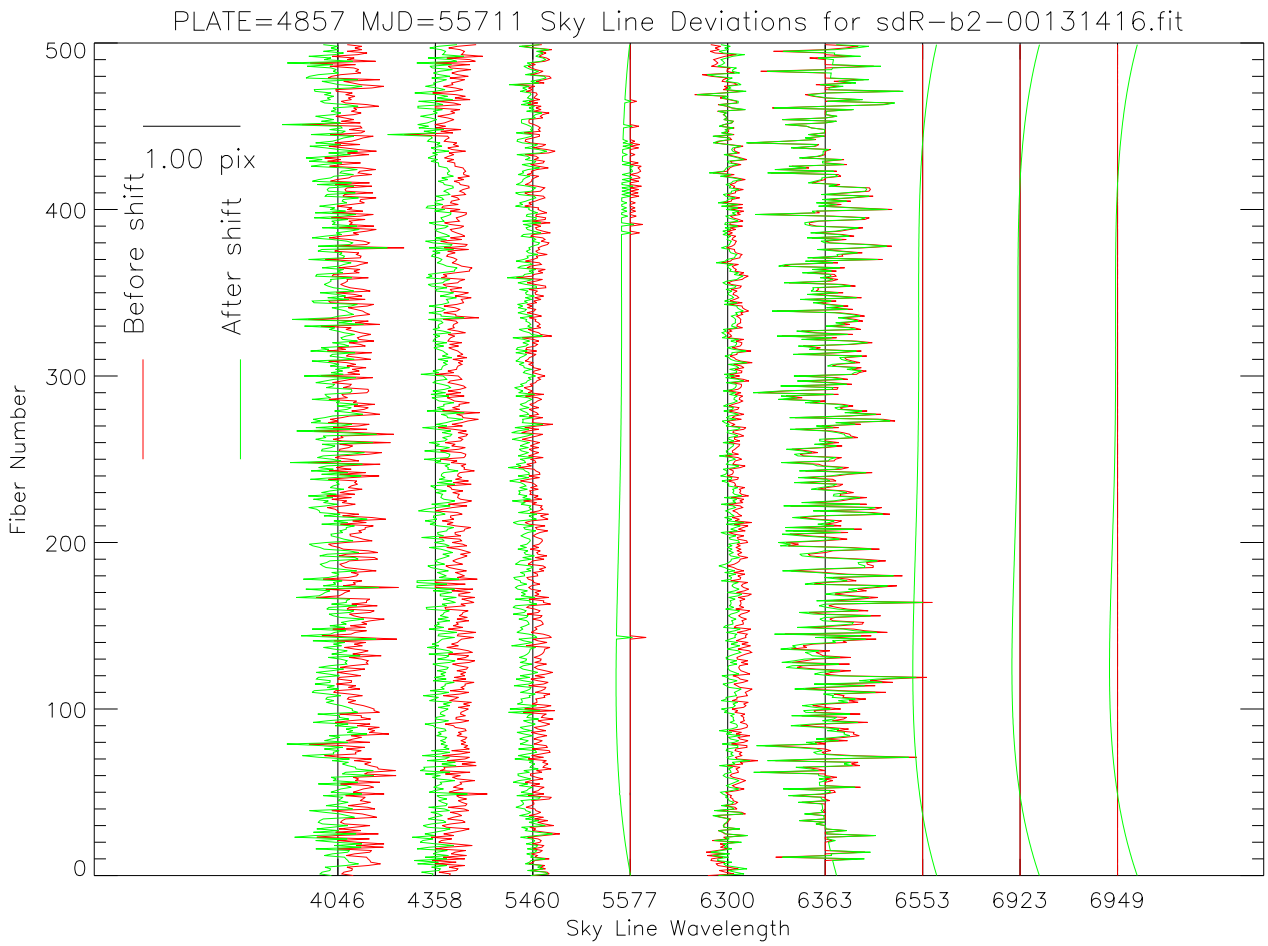


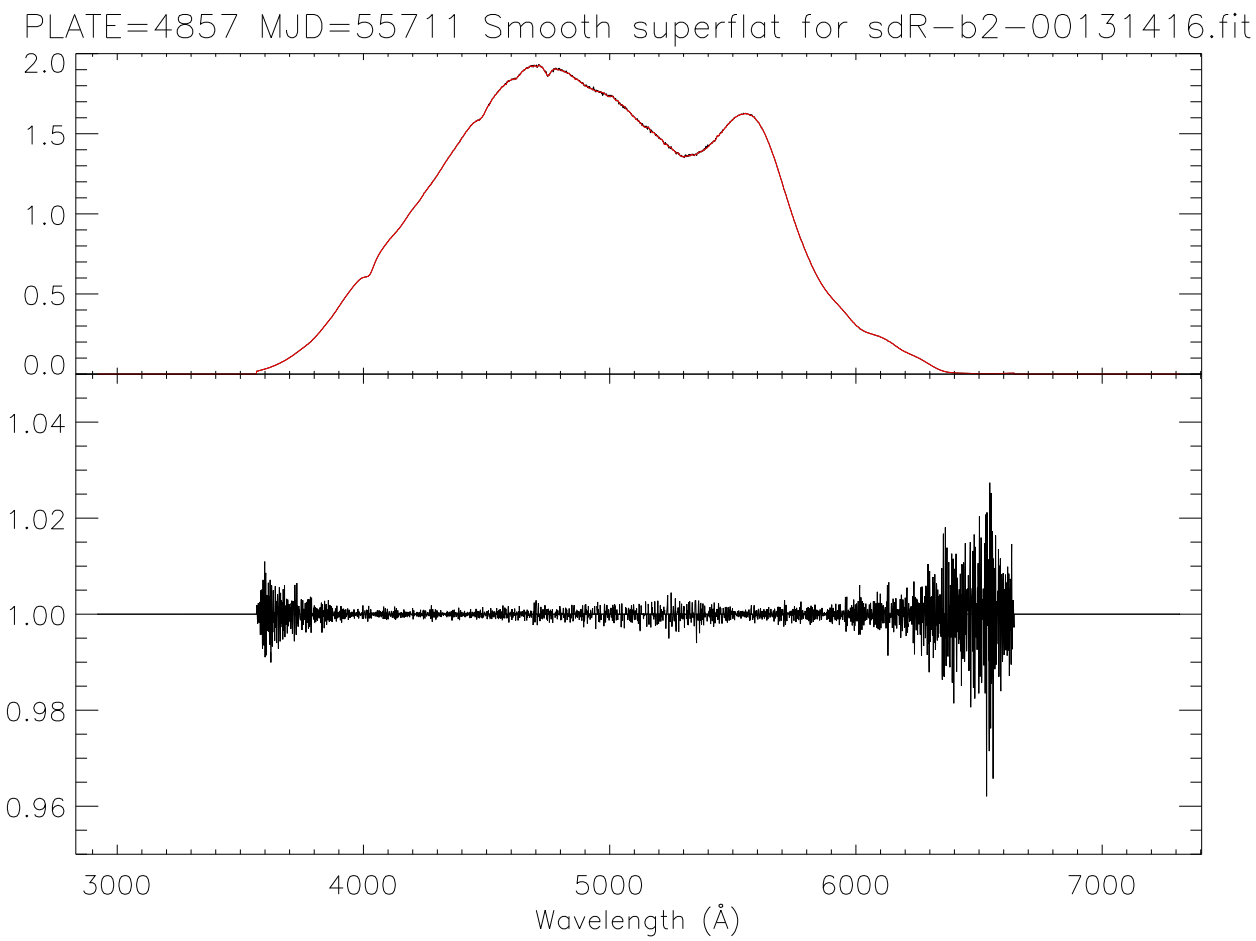

PLATE=4857 MJD=55711 sdR-b2-00131415.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 16.00 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

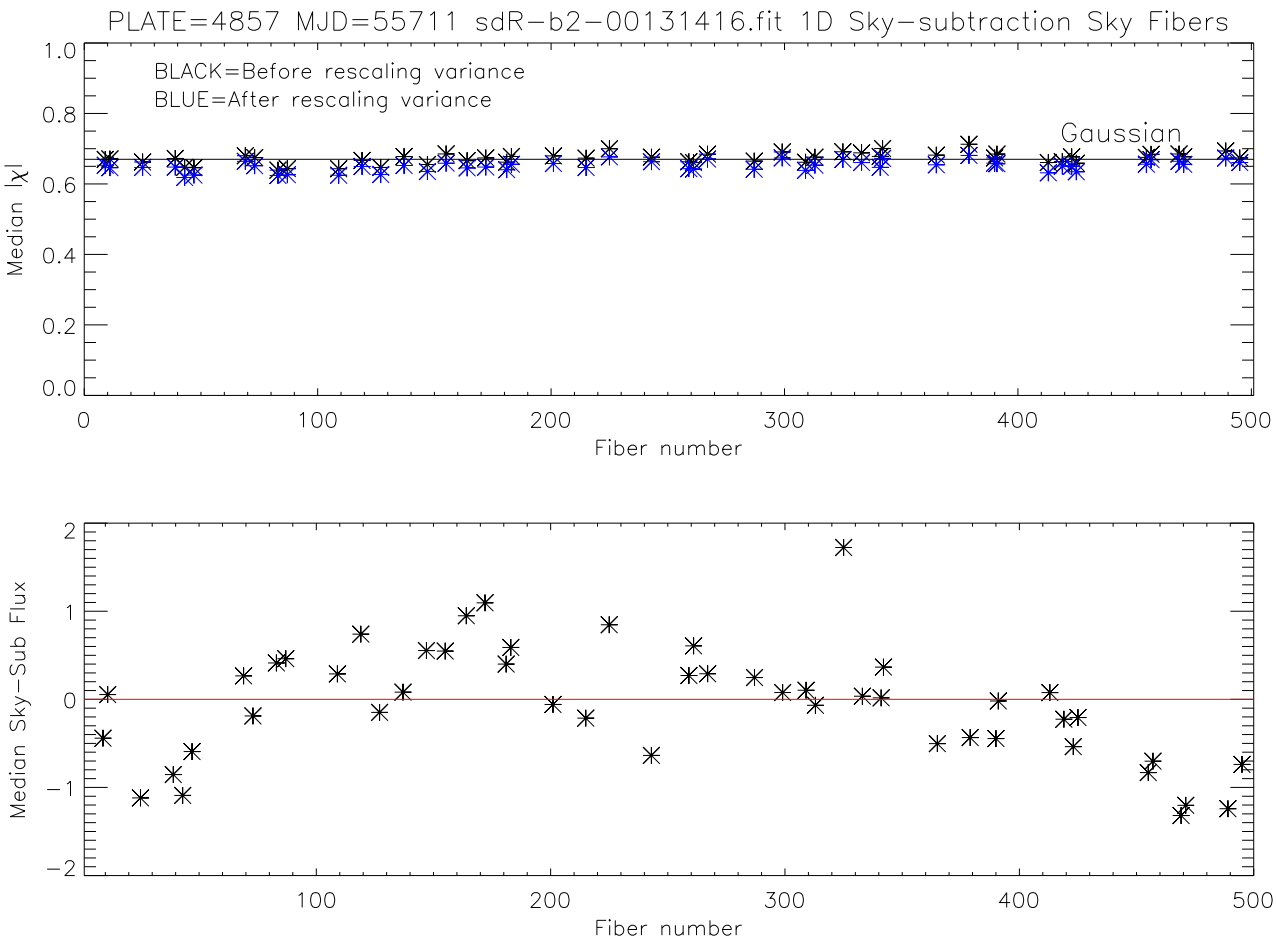

PLATE=4857 MJD=55711 sdR-b2-00131415.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
Dispersion = 31.09 %
Focal Distance [mm]
Airmass

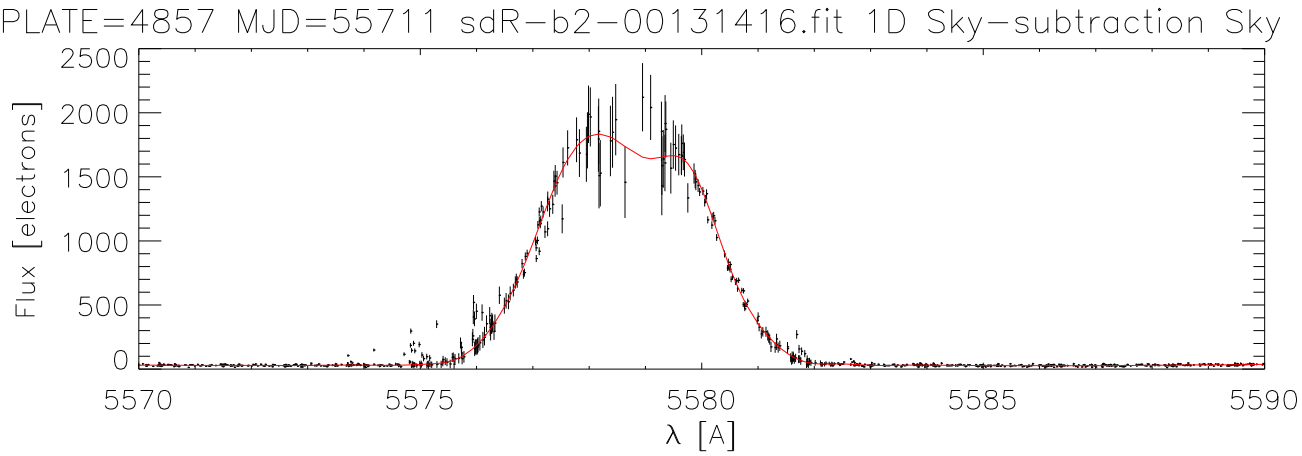

PLATE=4857 MJD=55711 Fiber−Flats for sdR−b2−00131414.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −2.744
Max value = 1.563
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Wed Nov 18 17:32:49 2015

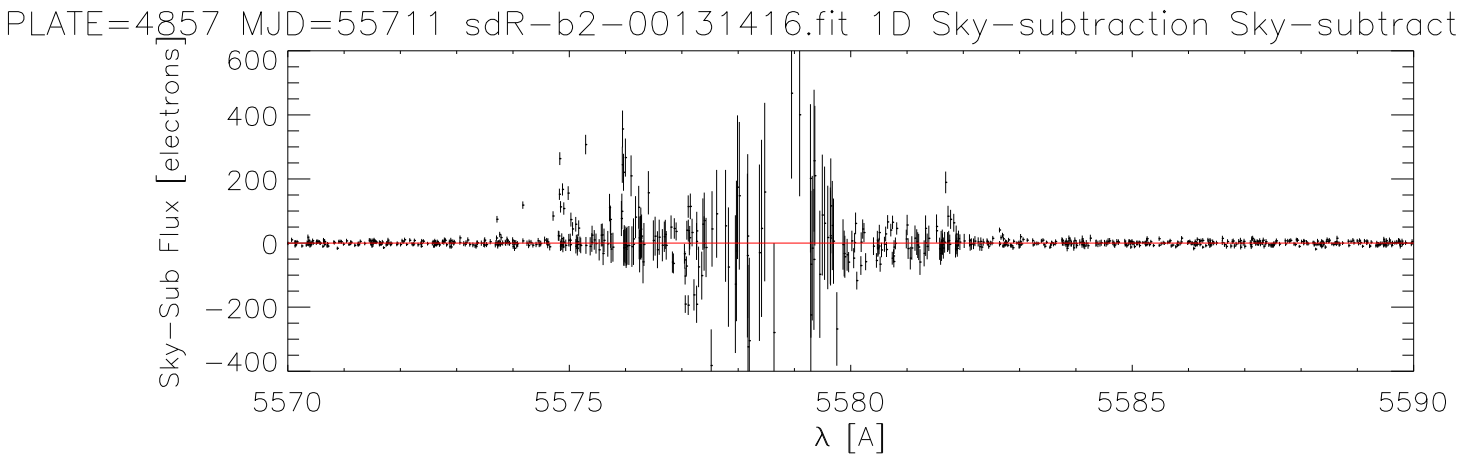

PLATE=4857 MJD=55711 Extraction chi$^2$ for sdR-b2-00131416.fit
BLACK = Final chisq extraction
$\chi^2$
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=4857 MJD=55711 Sky Line Deviations for sdR-b2-00131416.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

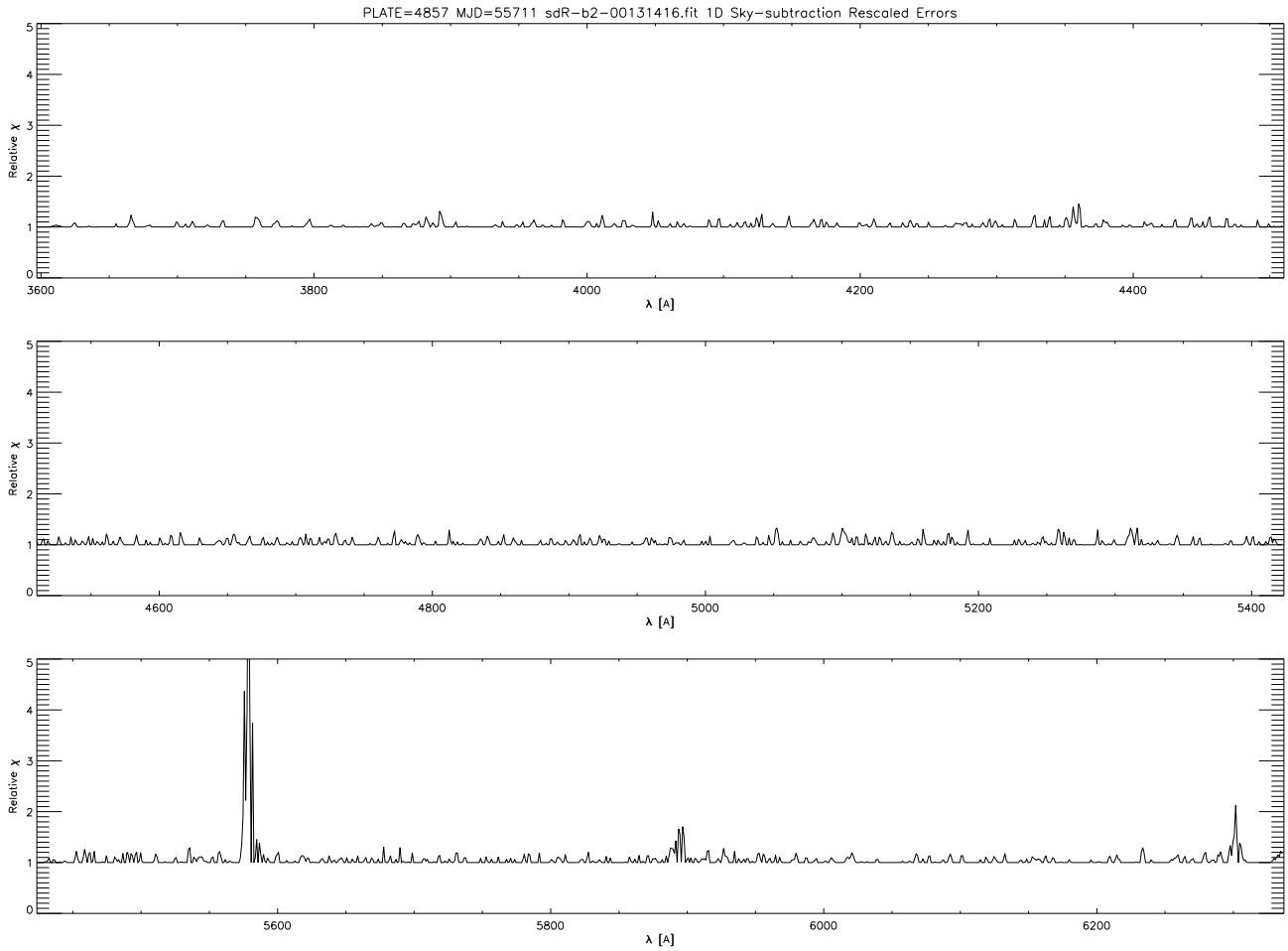

PLATE=4857 MJD=55711 Smooth superflat for sdR-b2-00131416.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

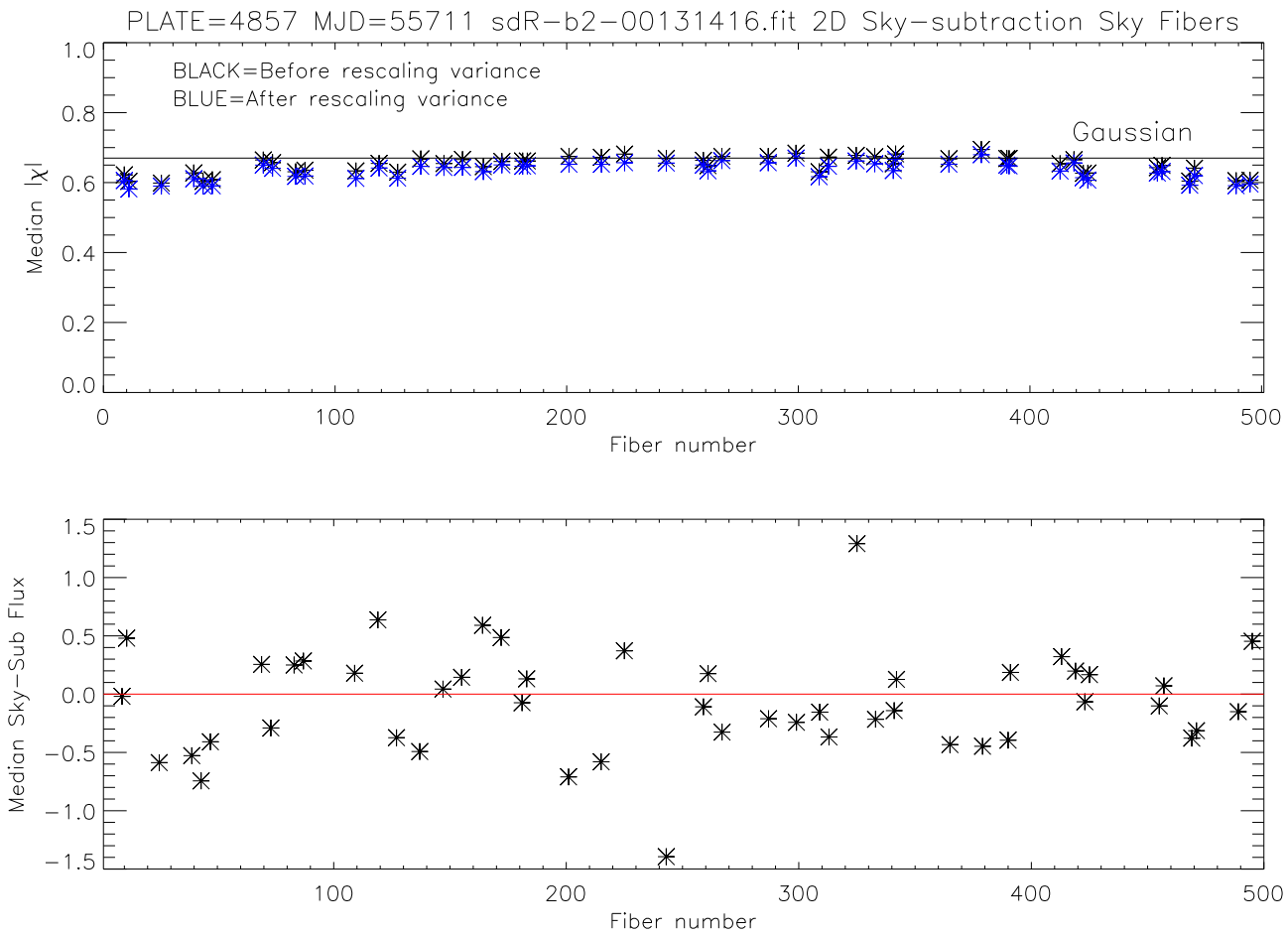

PLATE=4857 MJD=55711 sdR-b2-00131416.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

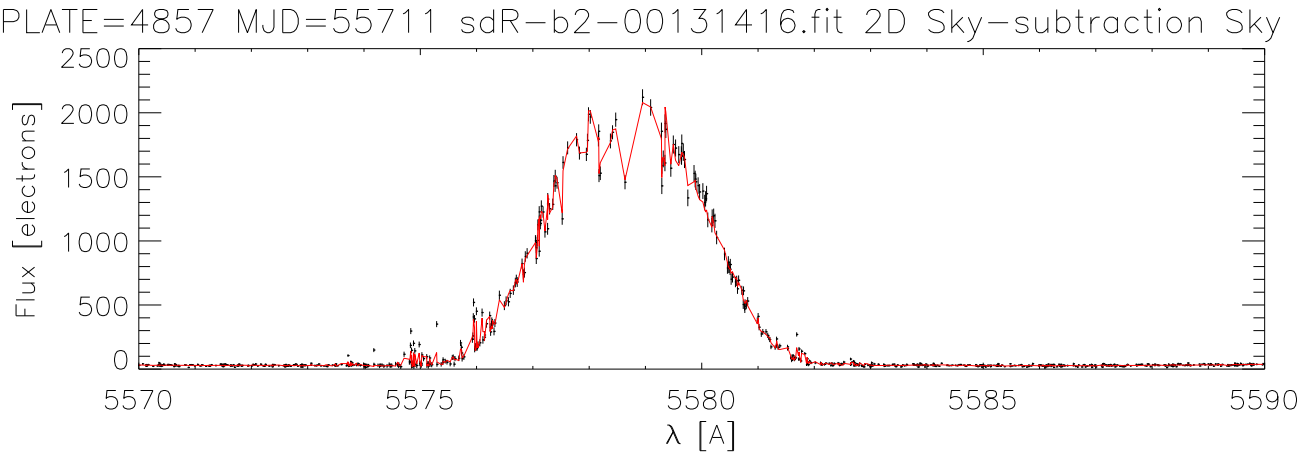

PLATE=4857 MJD=55711 sdR-b2-00131416.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

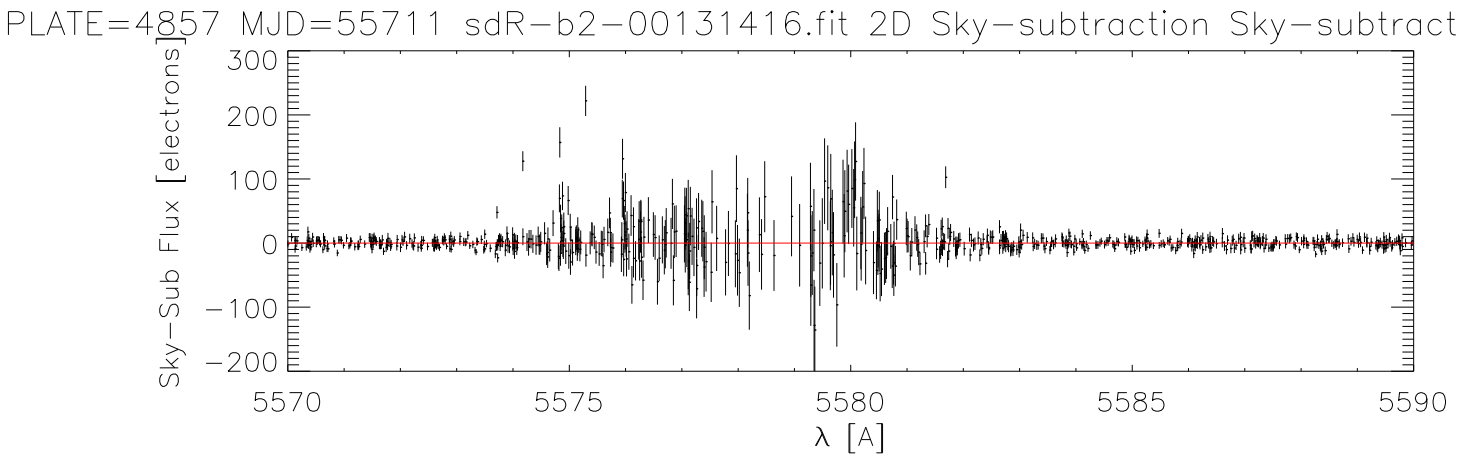

PLATE=4857 MJD=55711 sdR-b2-00131416.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 49

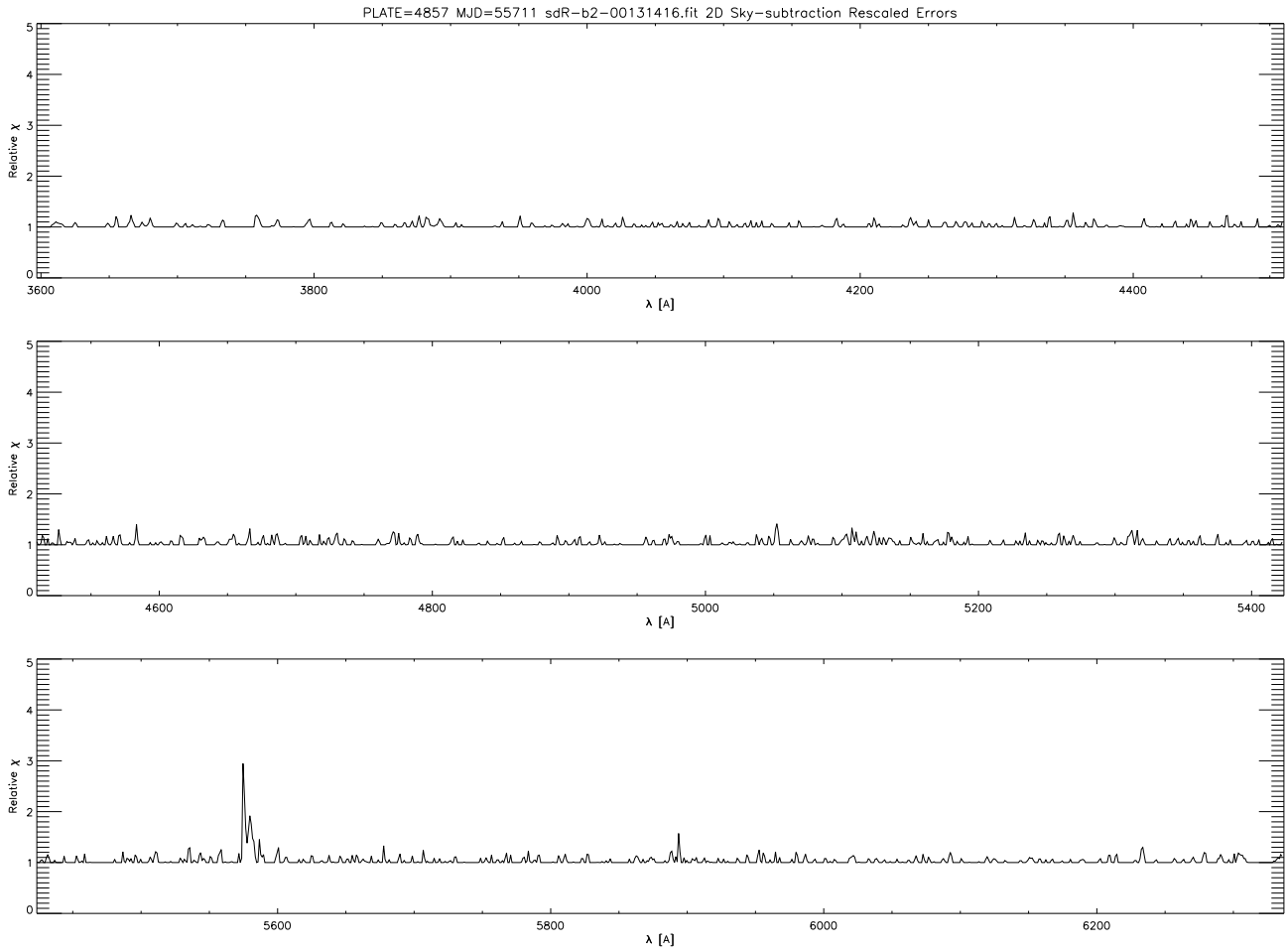


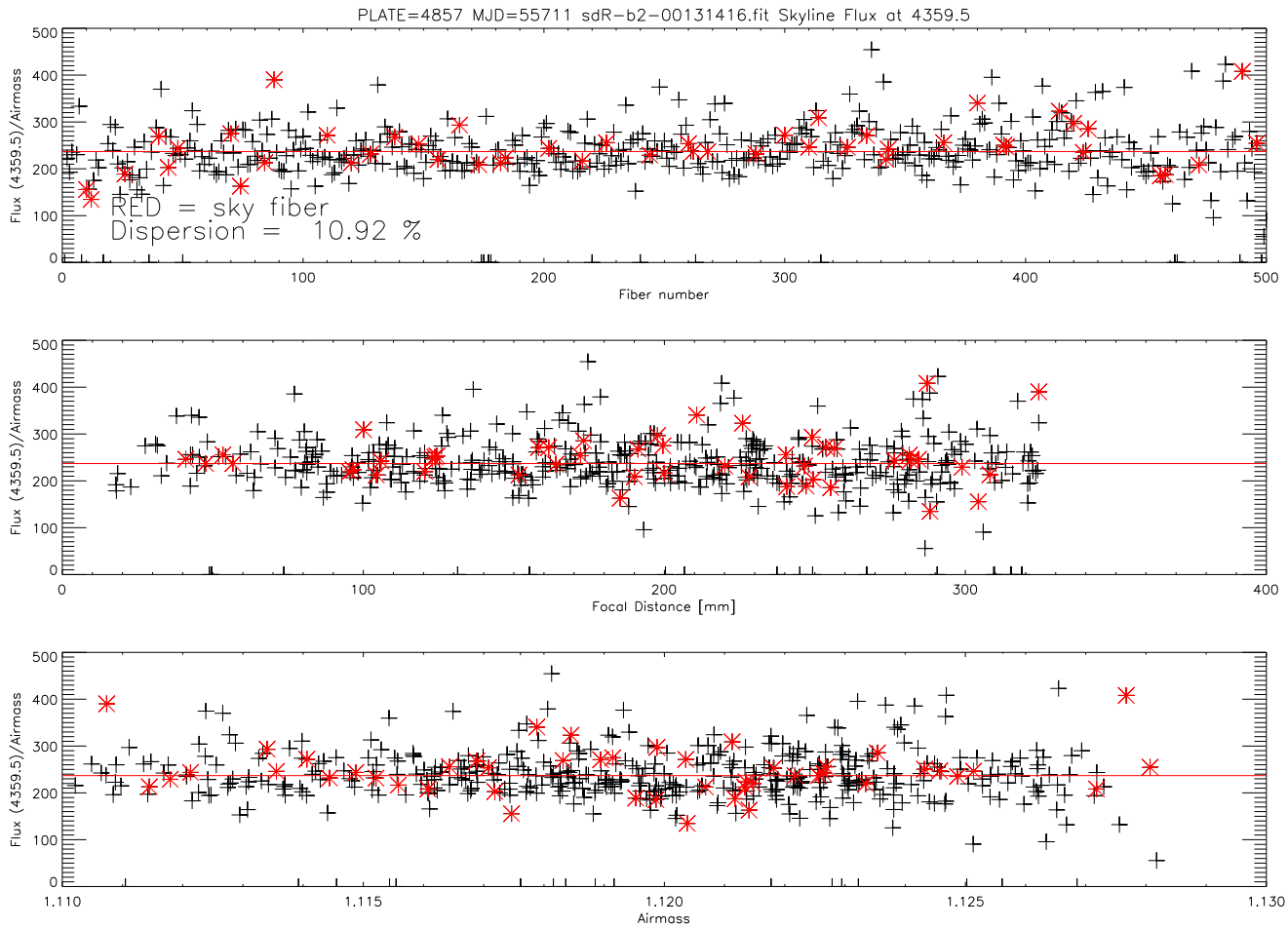

PLATE=4857 MJD=55711 sdR-b2-00131416.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

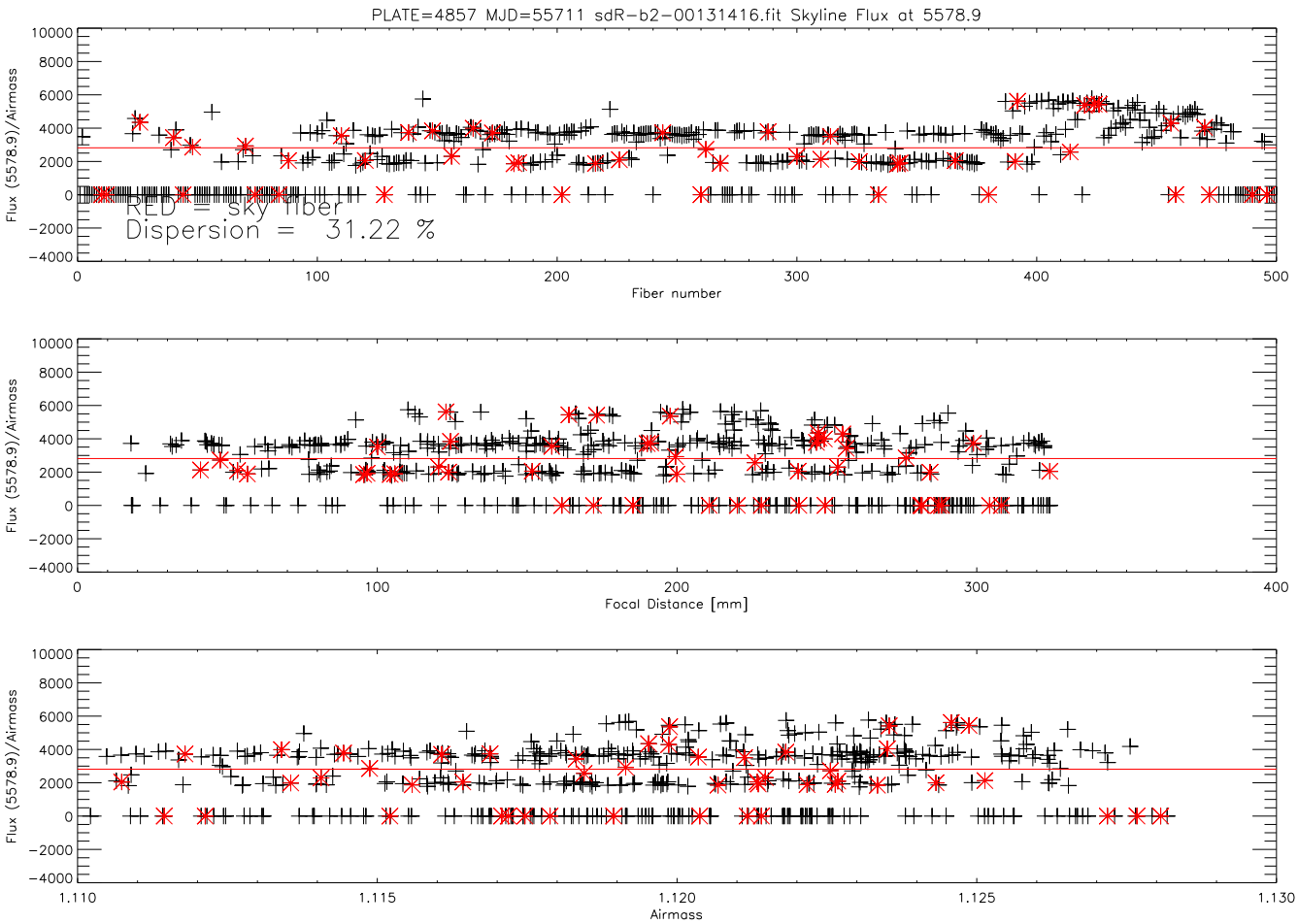

PLATE=4857 MJD=55711 sdR-b2-00131416.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

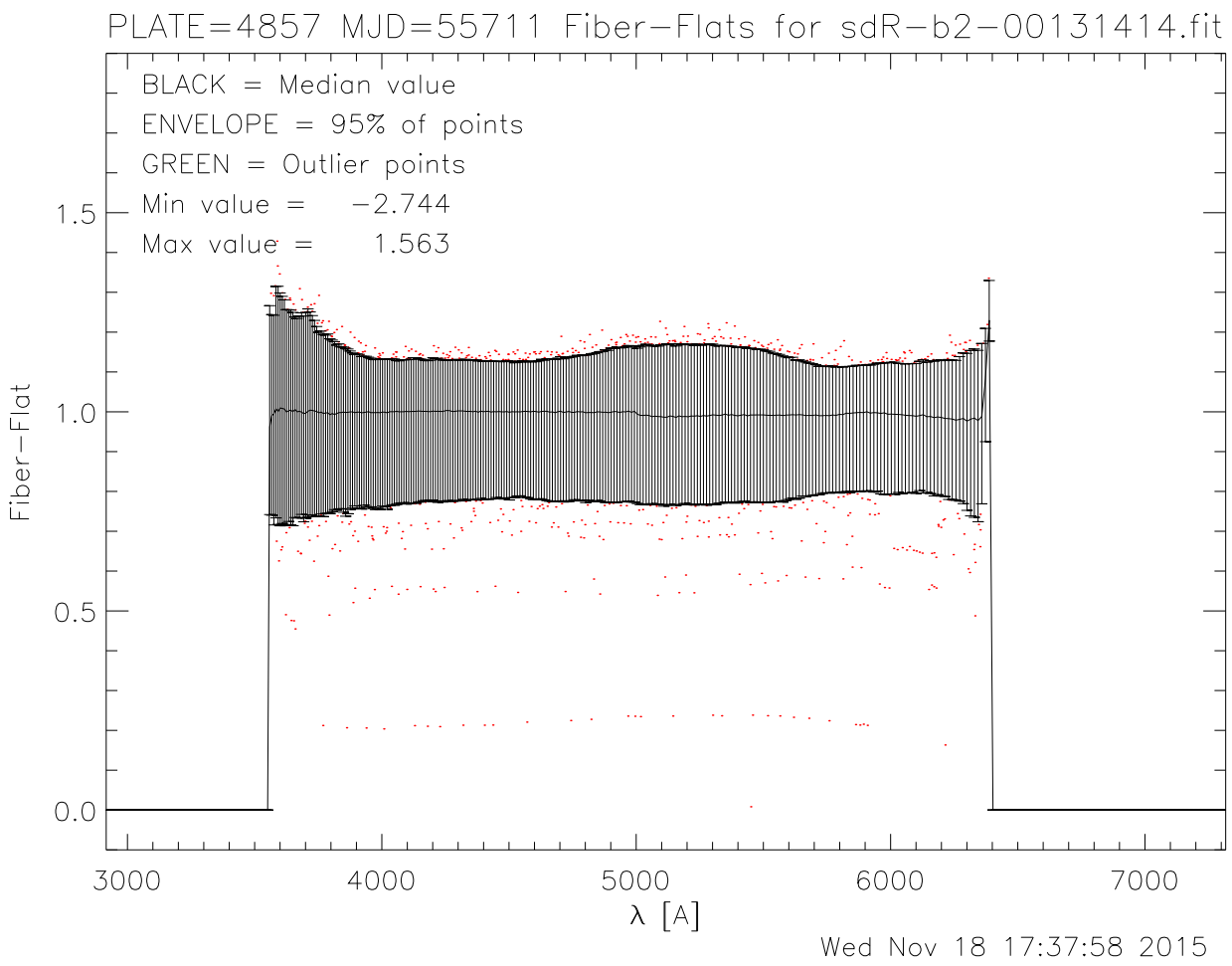

PLATE=4857 MJD=55711 sdR-b2-00131416.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

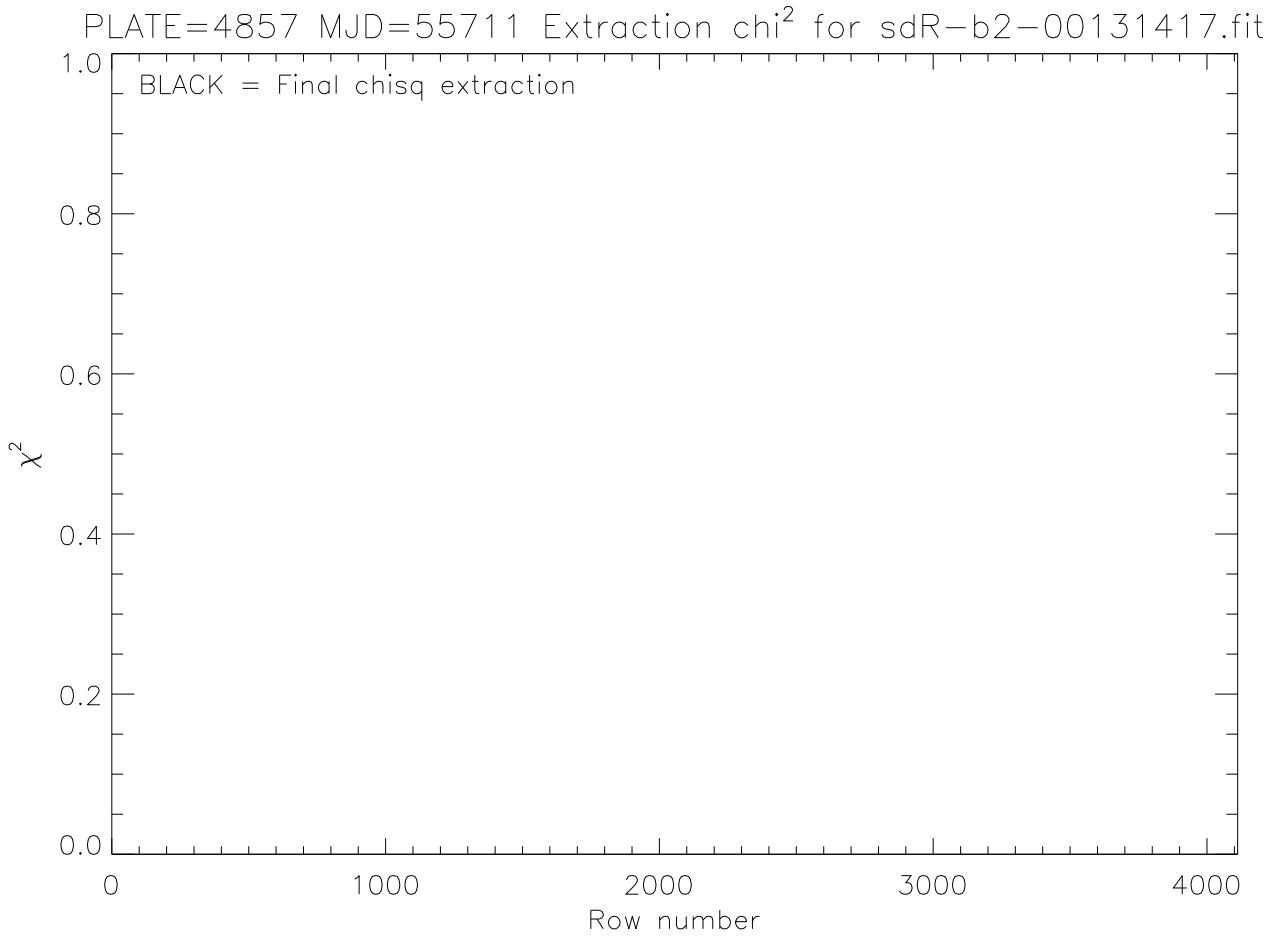
Number of sky fibers = 49

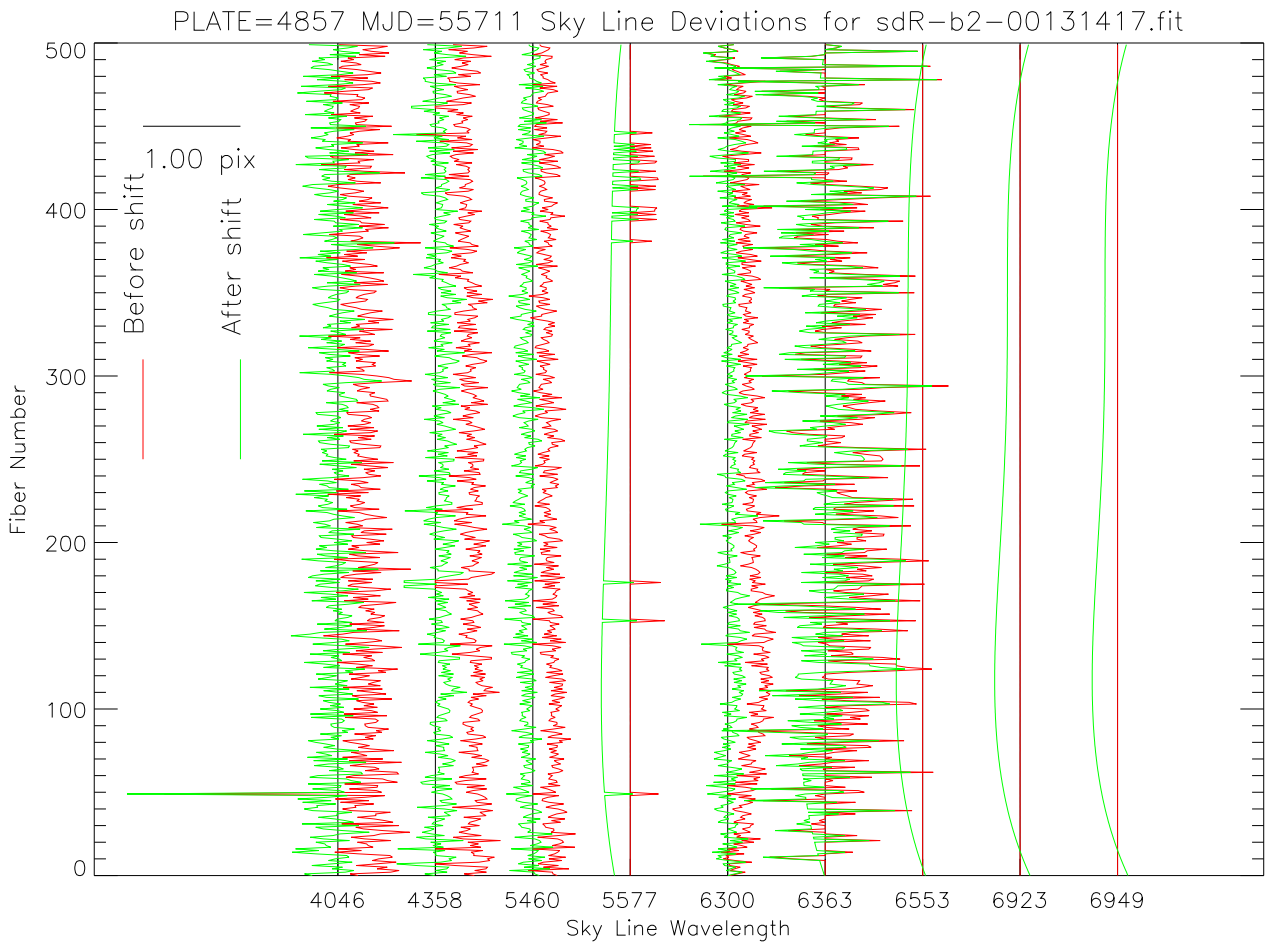


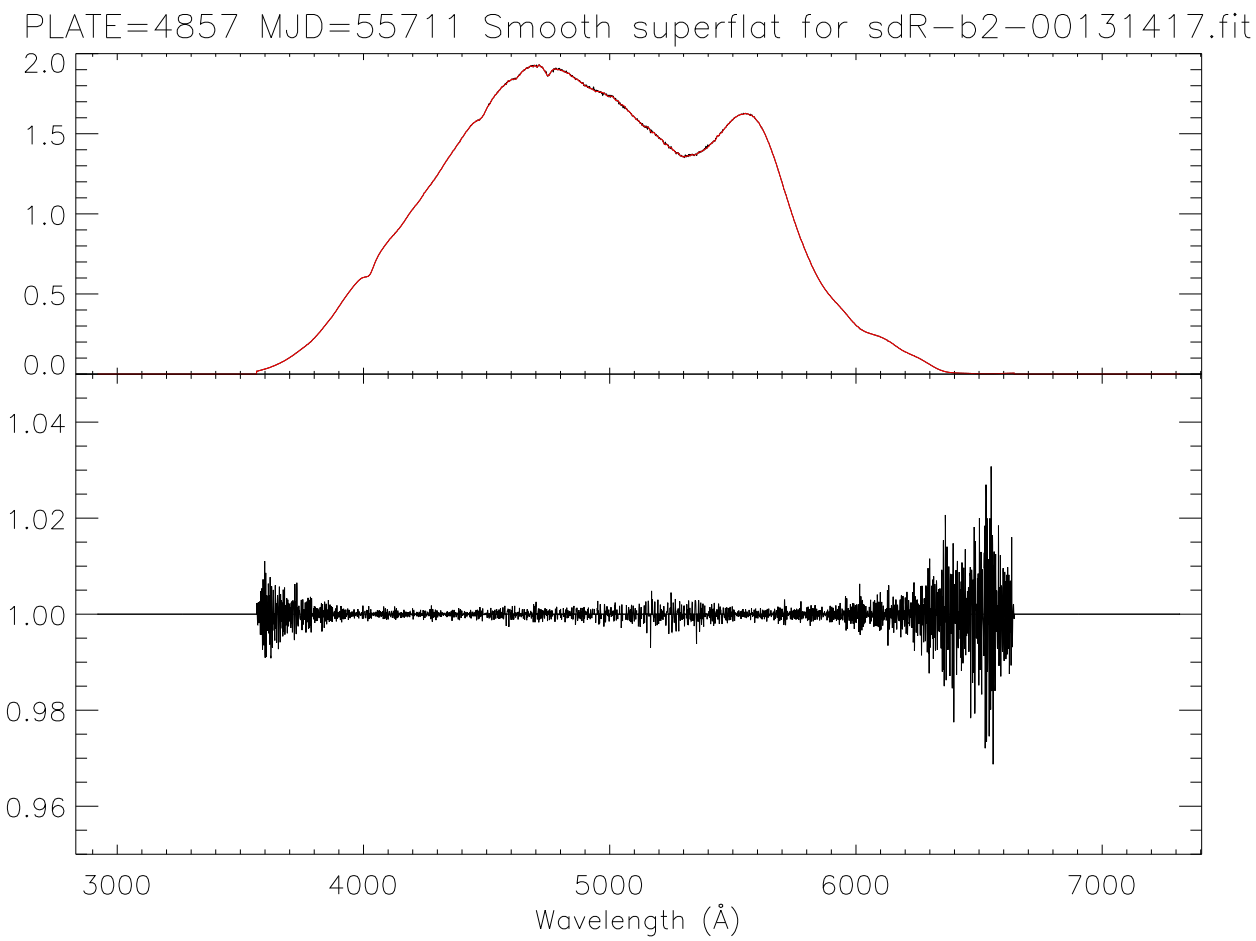

PLATE=4857 MJD=55711 sdR-b2-00131416.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 10.92 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

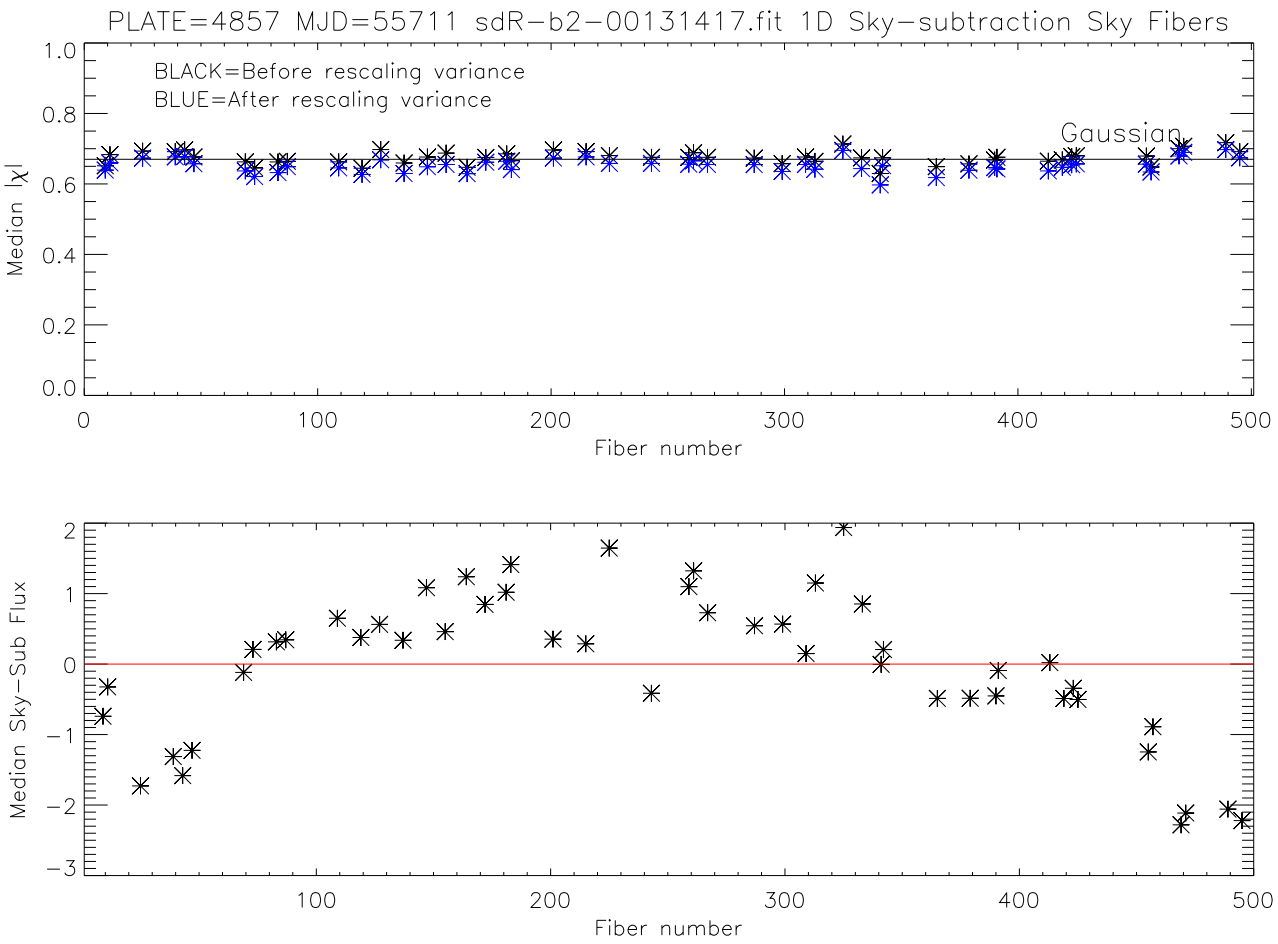

PLATE=4857 MJD=55711 sdR-b2-00131416.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 31.22 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

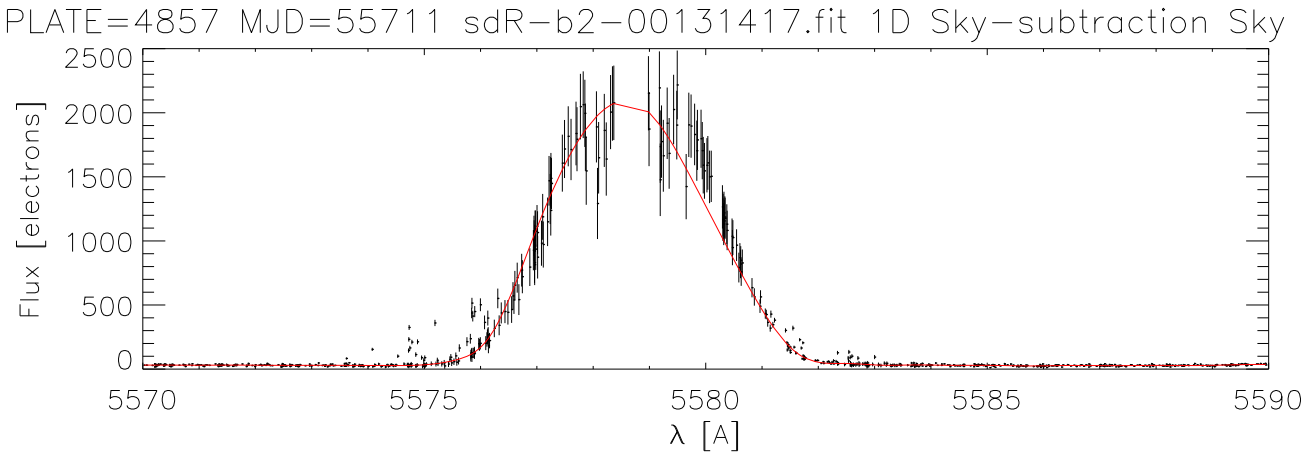

PLATE=4857 MJD=55711 Fiber−Flats for sdR−b2−00131414.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −2.744
Max value = 1.563
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Wed Nov 18 17:37:58 2015

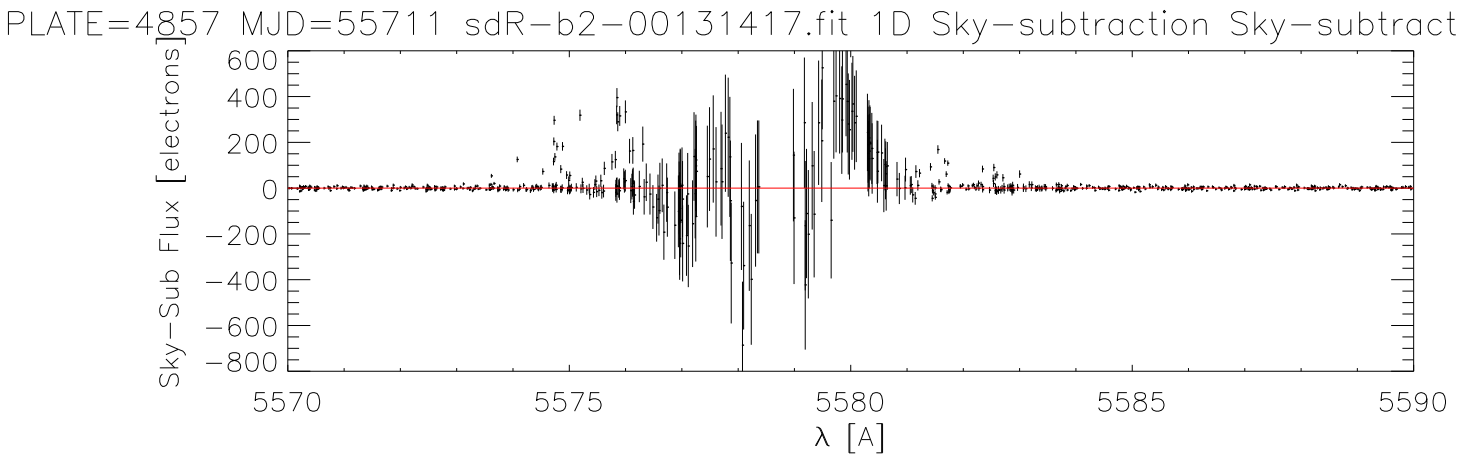

PLATE=4857 MJD=55711 Extraction chi$^2$ for sdR-b2-00131417.fit
BLACK = Final chisq extraction
$\chi^2$
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=4857 MJD=55711 Sky Line Deviations for sdR-b2-00131417.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

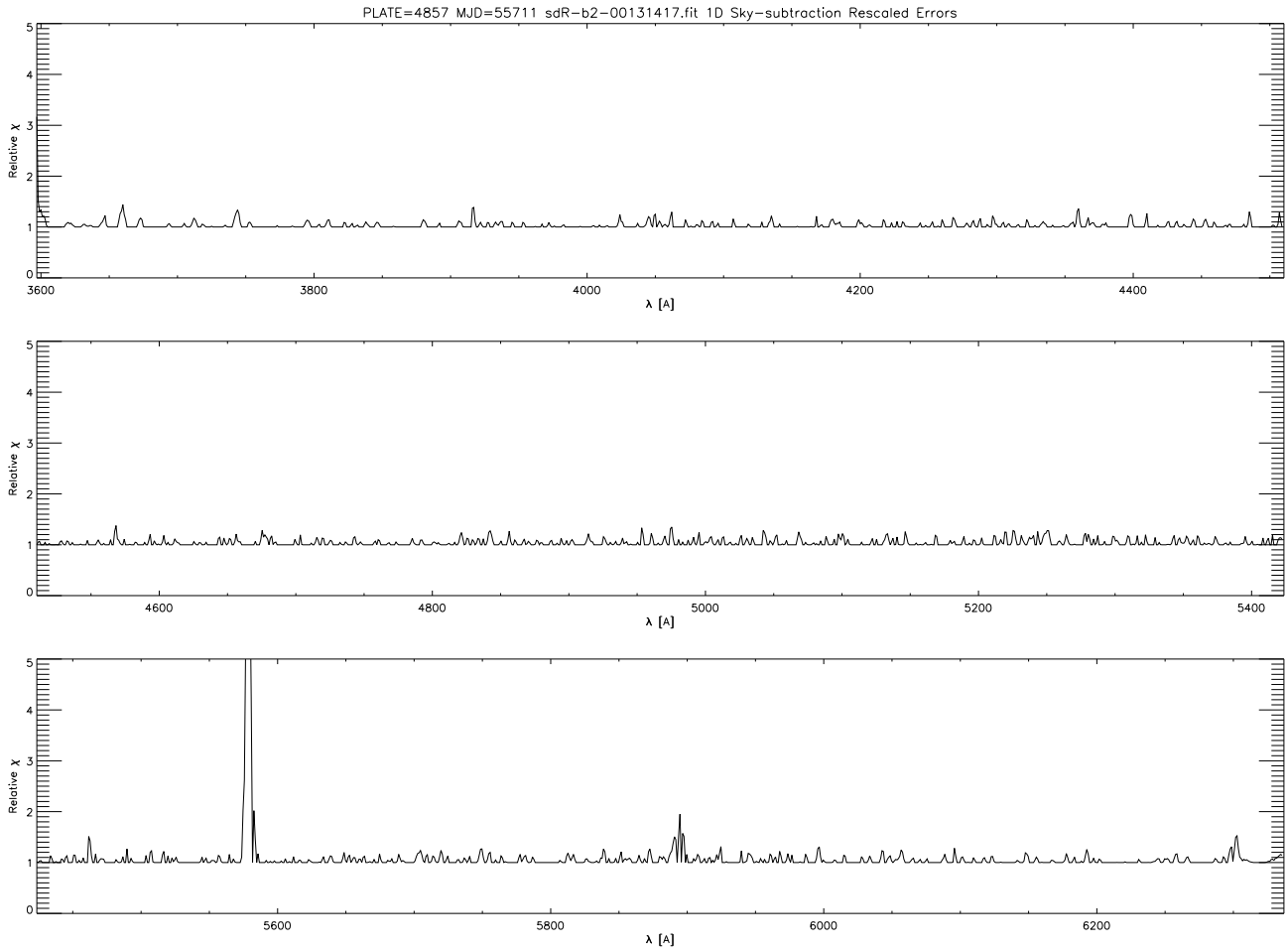

PLATE=4857 MJD=55711 Smooth superflat for sdR-b2-00131417.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

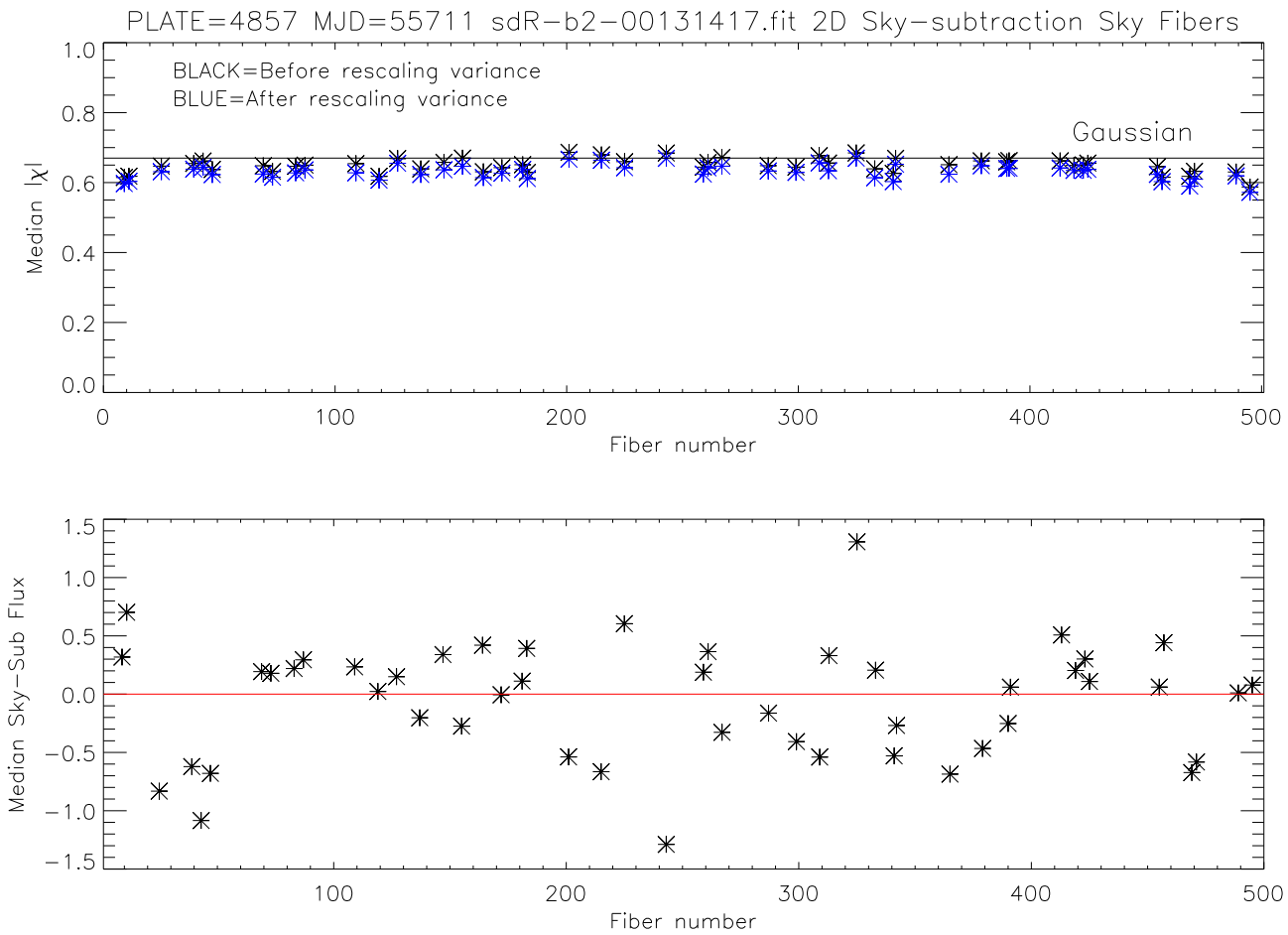

PLATE=4857 MJD=55711 sdR-b2-00131417.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

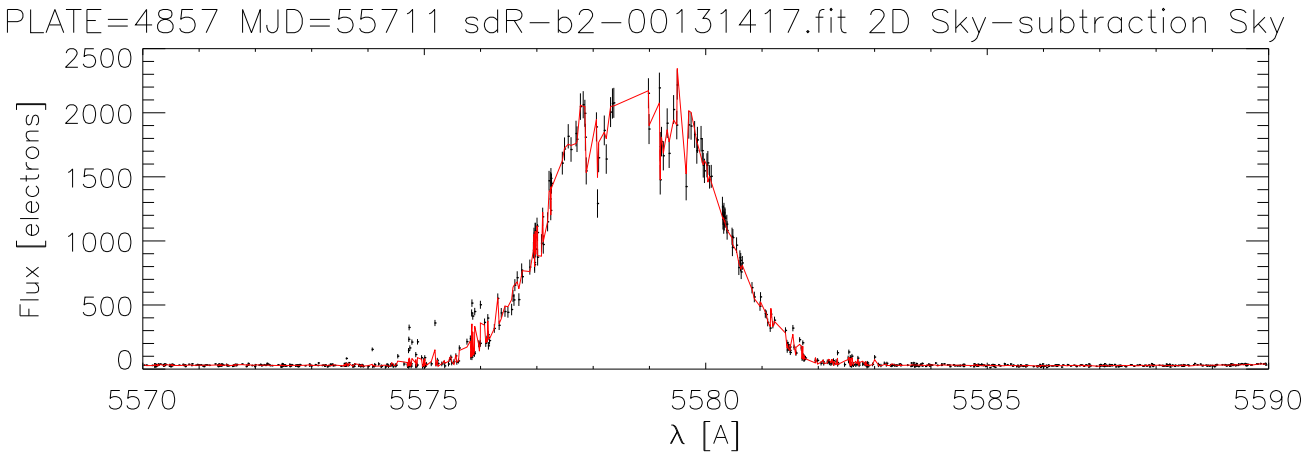

PLATE=4857 MJD=55711 sdR-b2-00131417.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

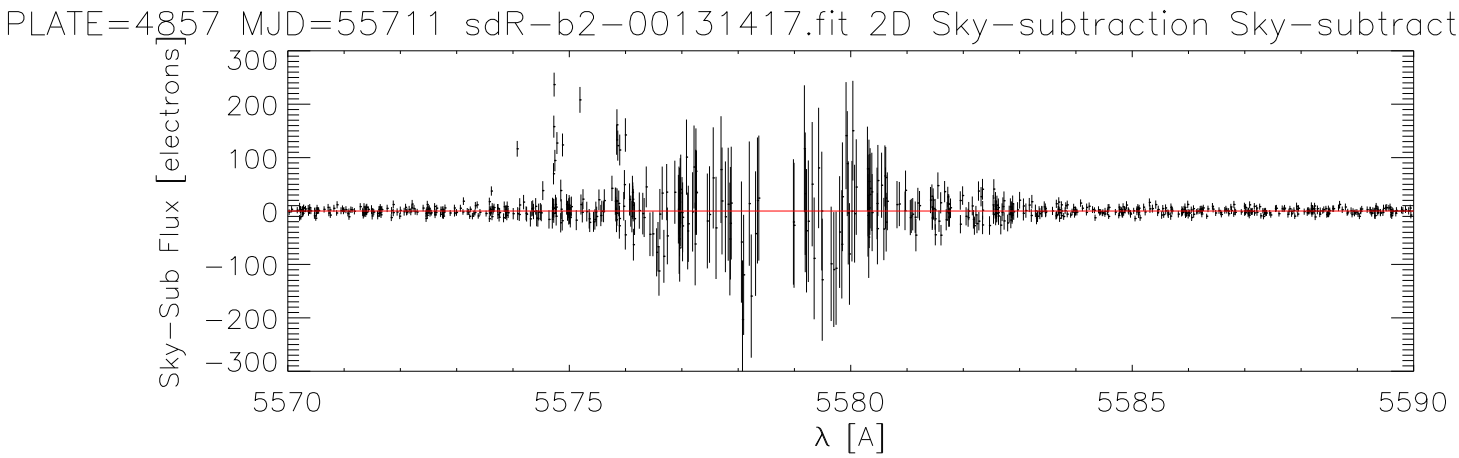

PLATE=4857 MJD=55711 sdR-b2-00131417.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
-600
-800
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 49

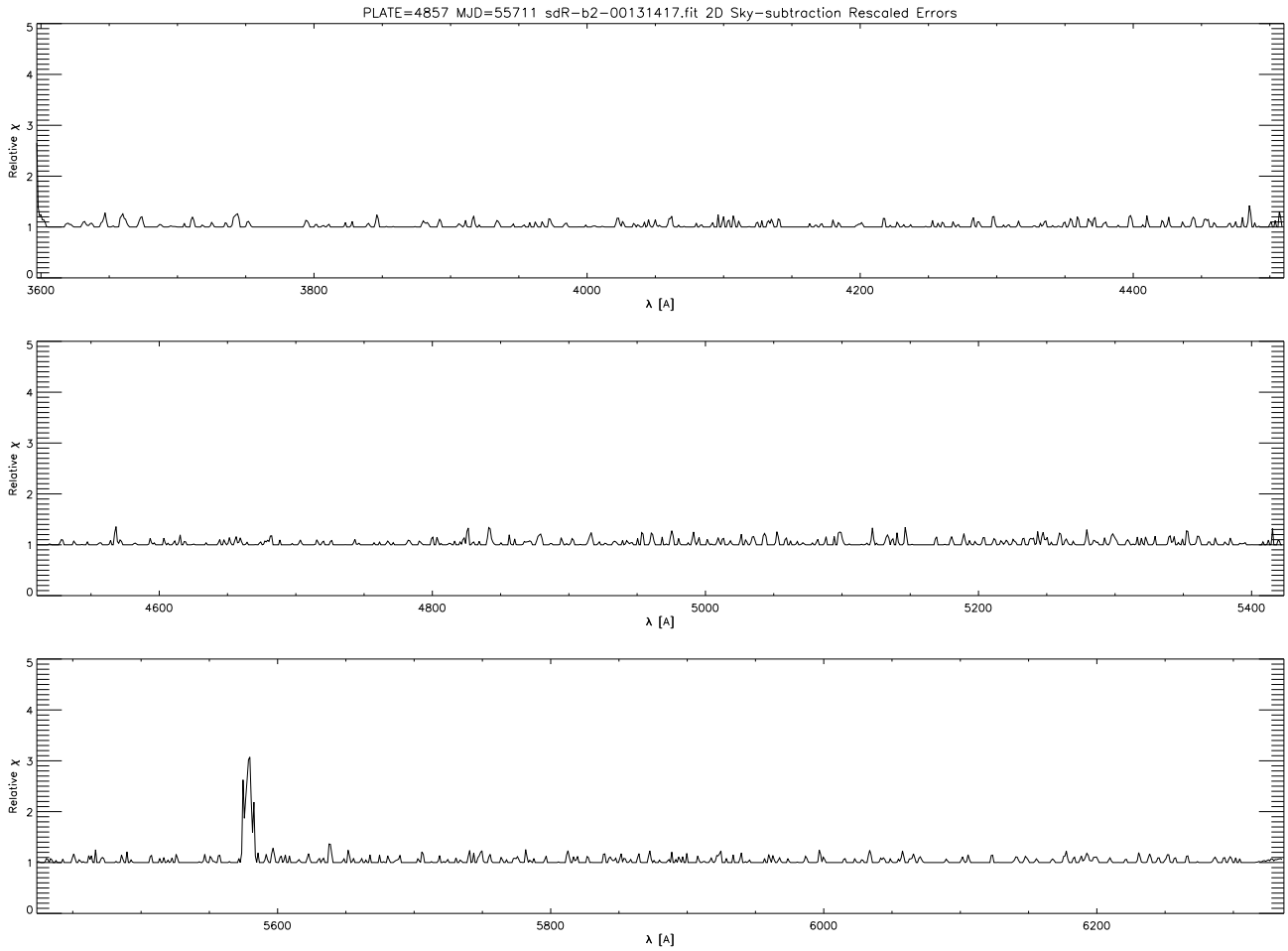


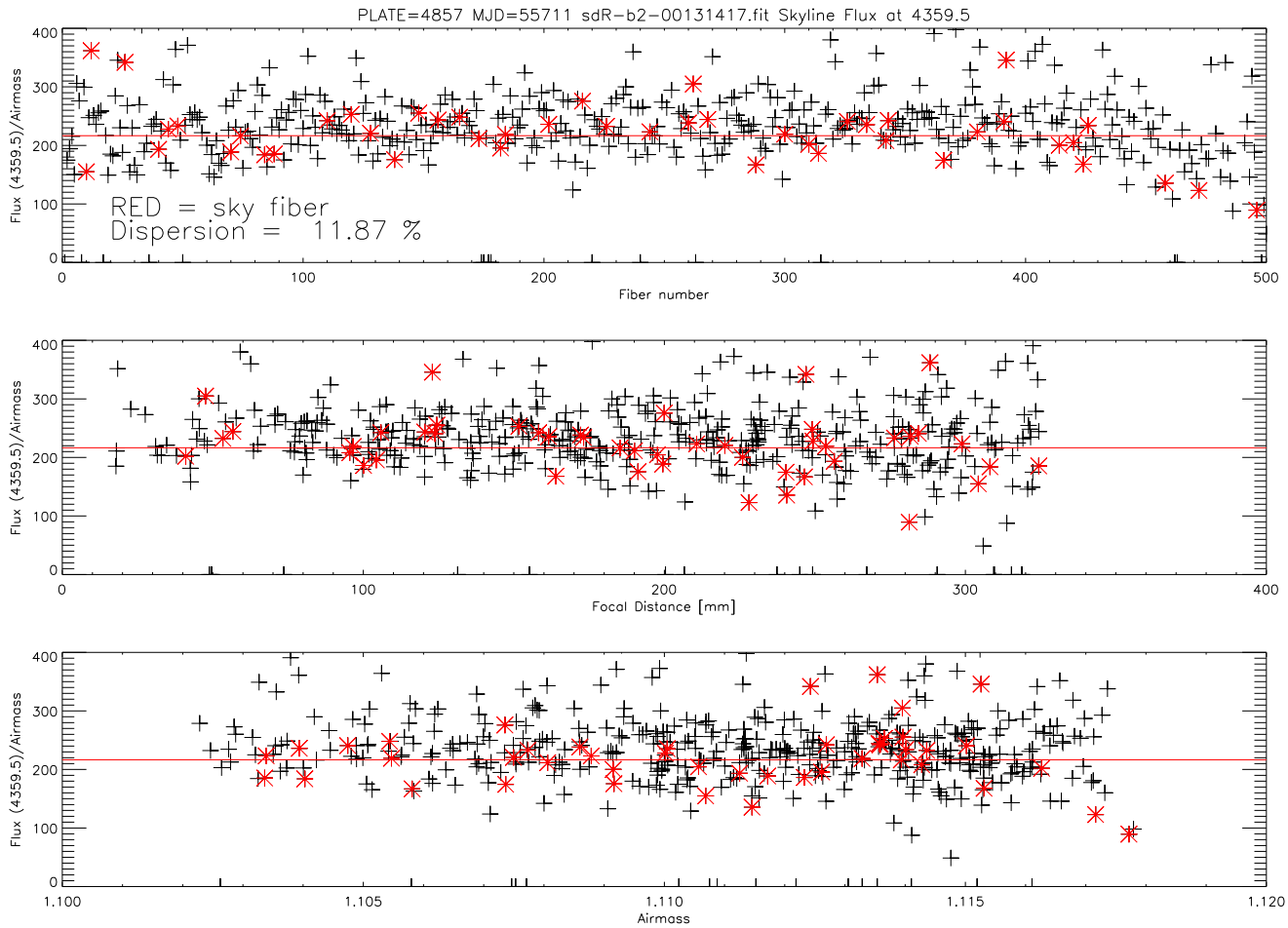

PLATE=4857 MJD=55711 sdR-b2-00131417.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

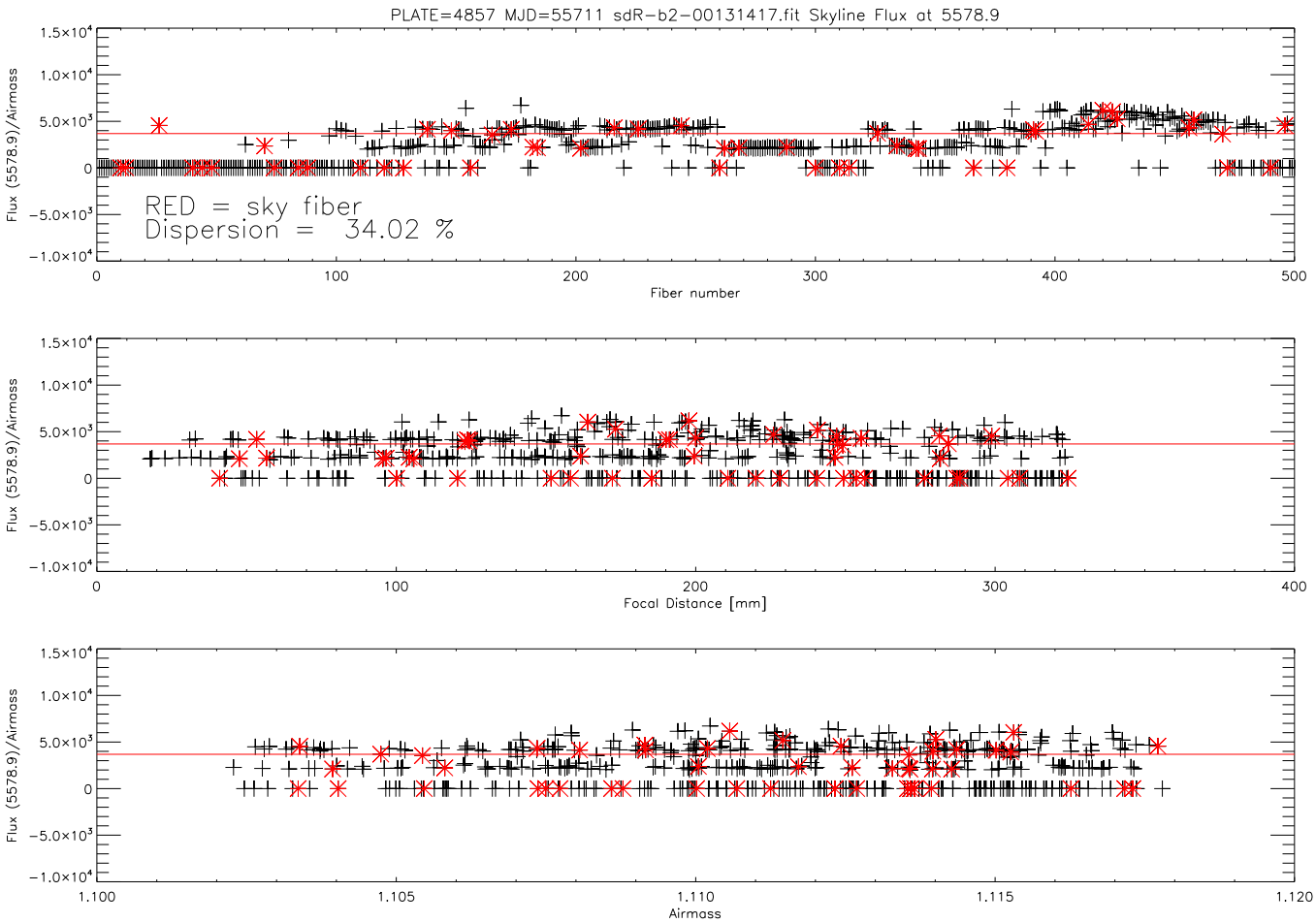

PLATE=4857 MJD=55711 sdR-b2-00131417.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

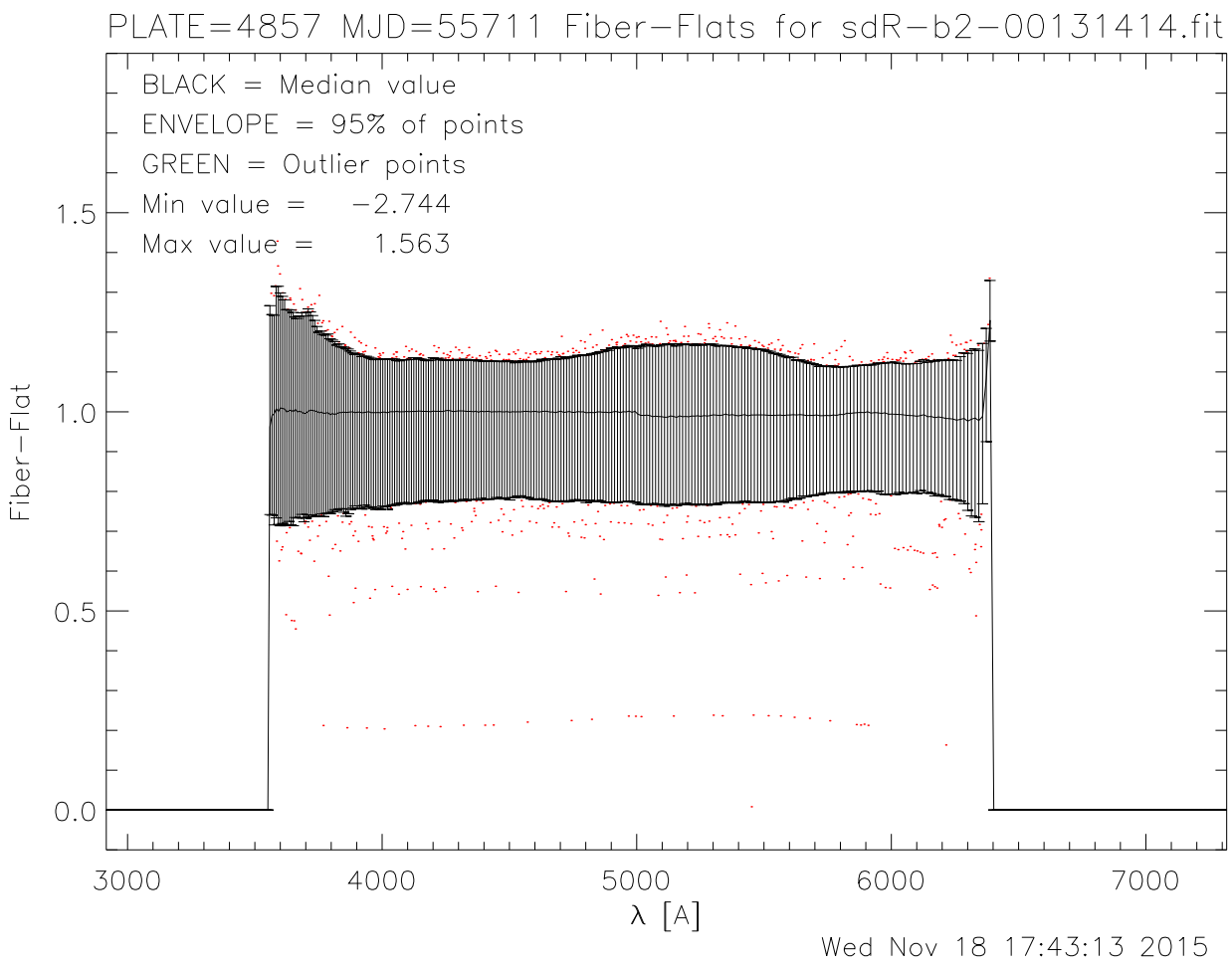

PLATE=4857 MJD=55711 sdR-b2-00131417.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

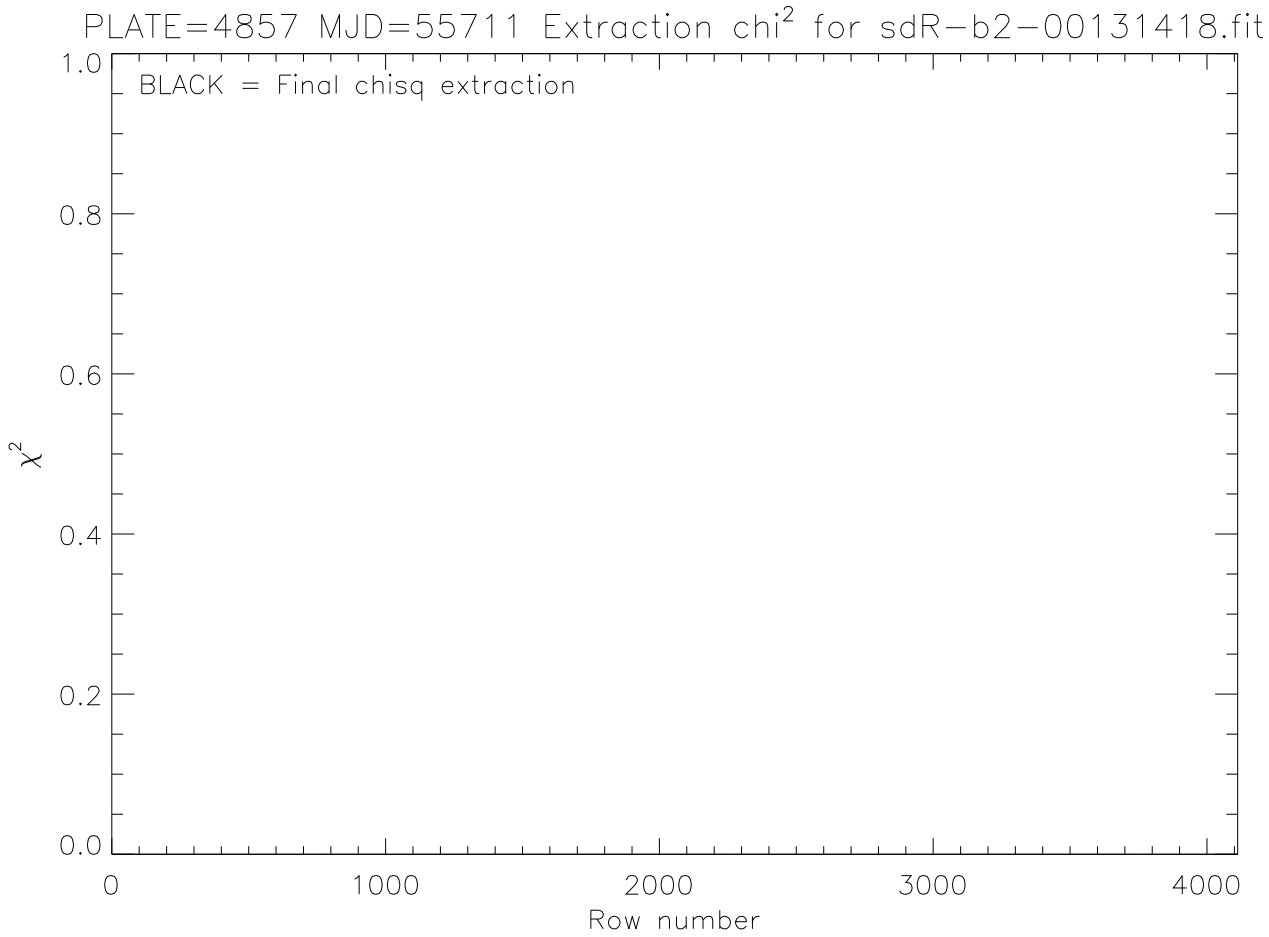
Number of sky fibers = 49

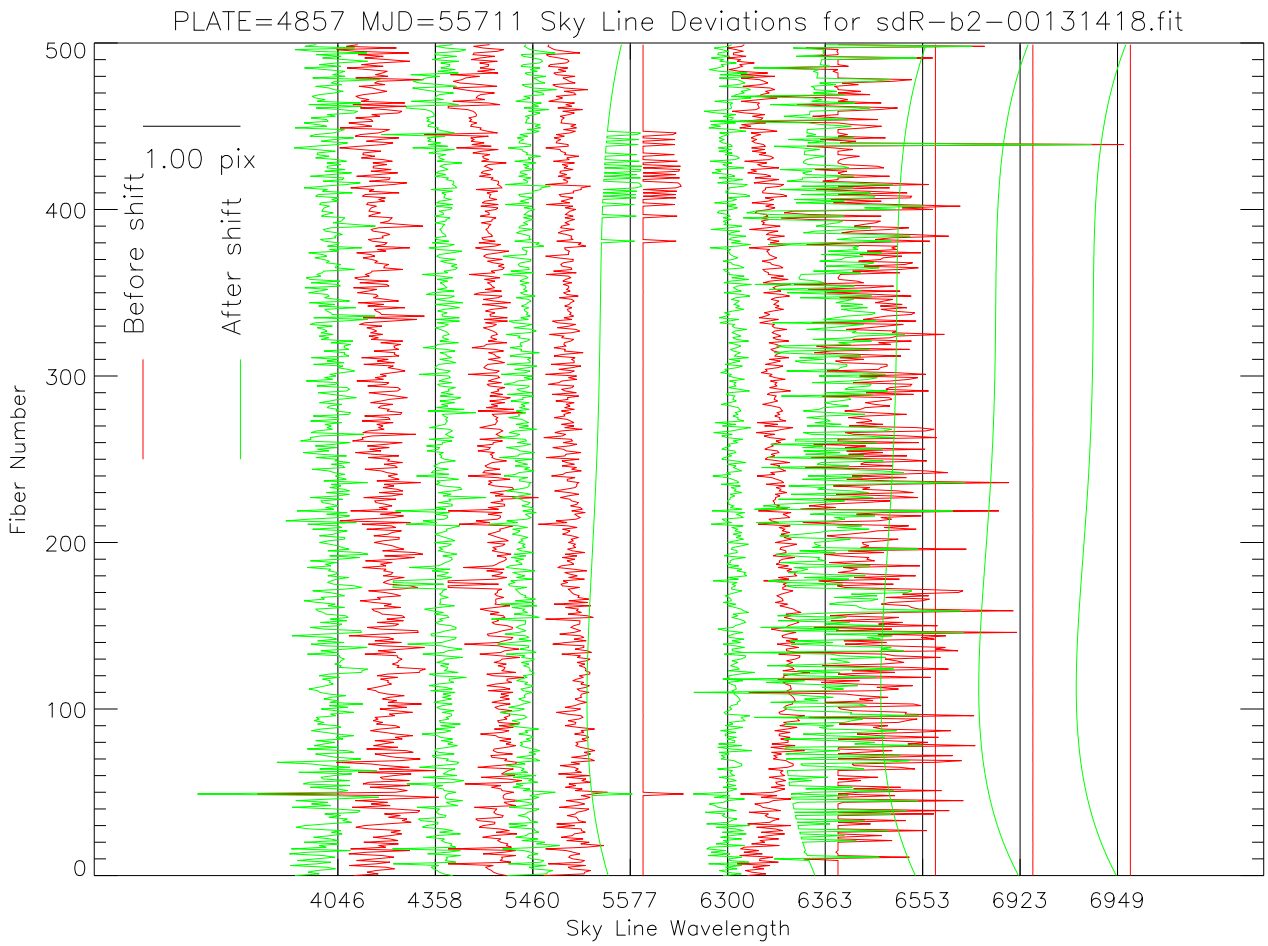


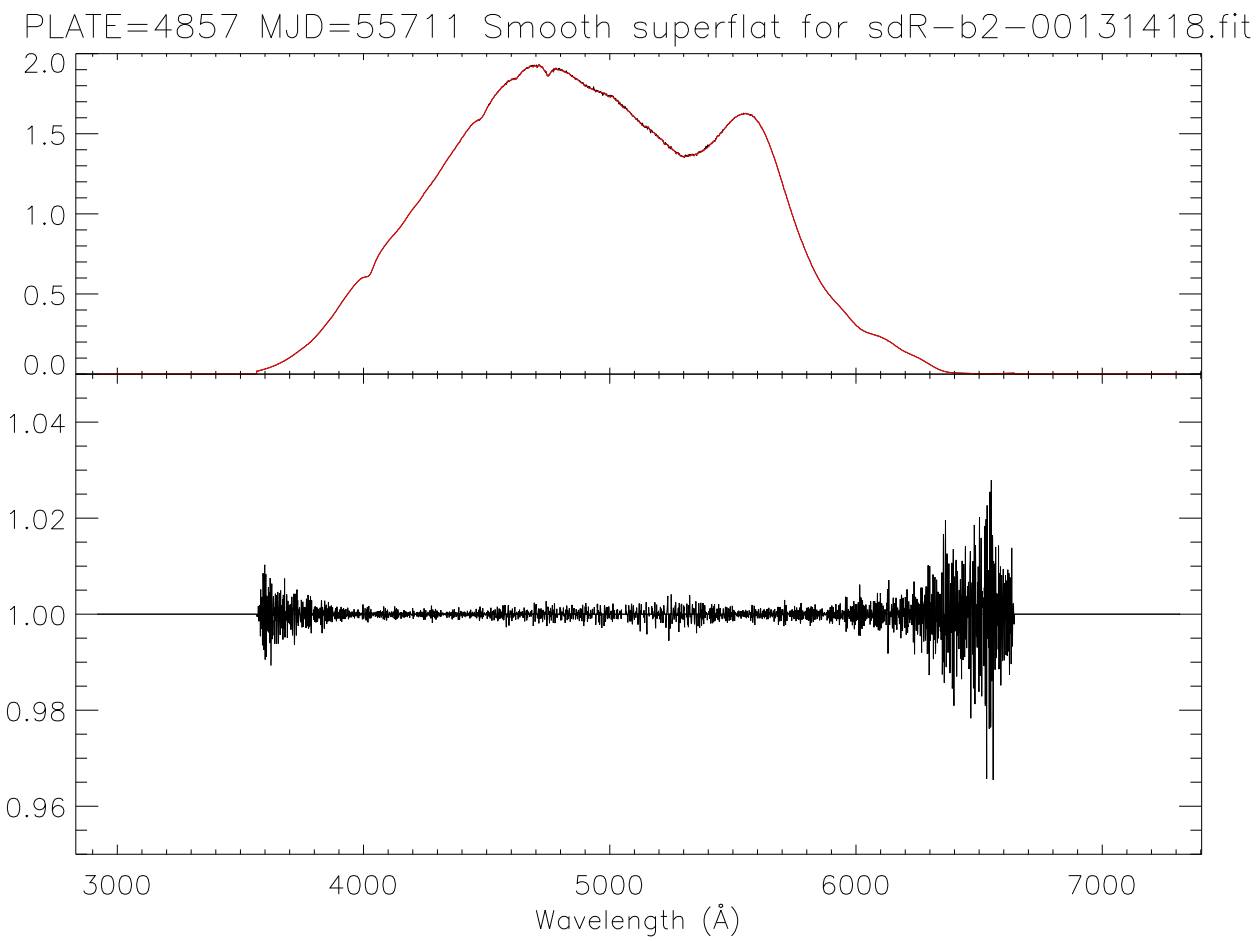

PLATE=4857 MJD=55711 sdR-b2-00131417.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 11.87 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

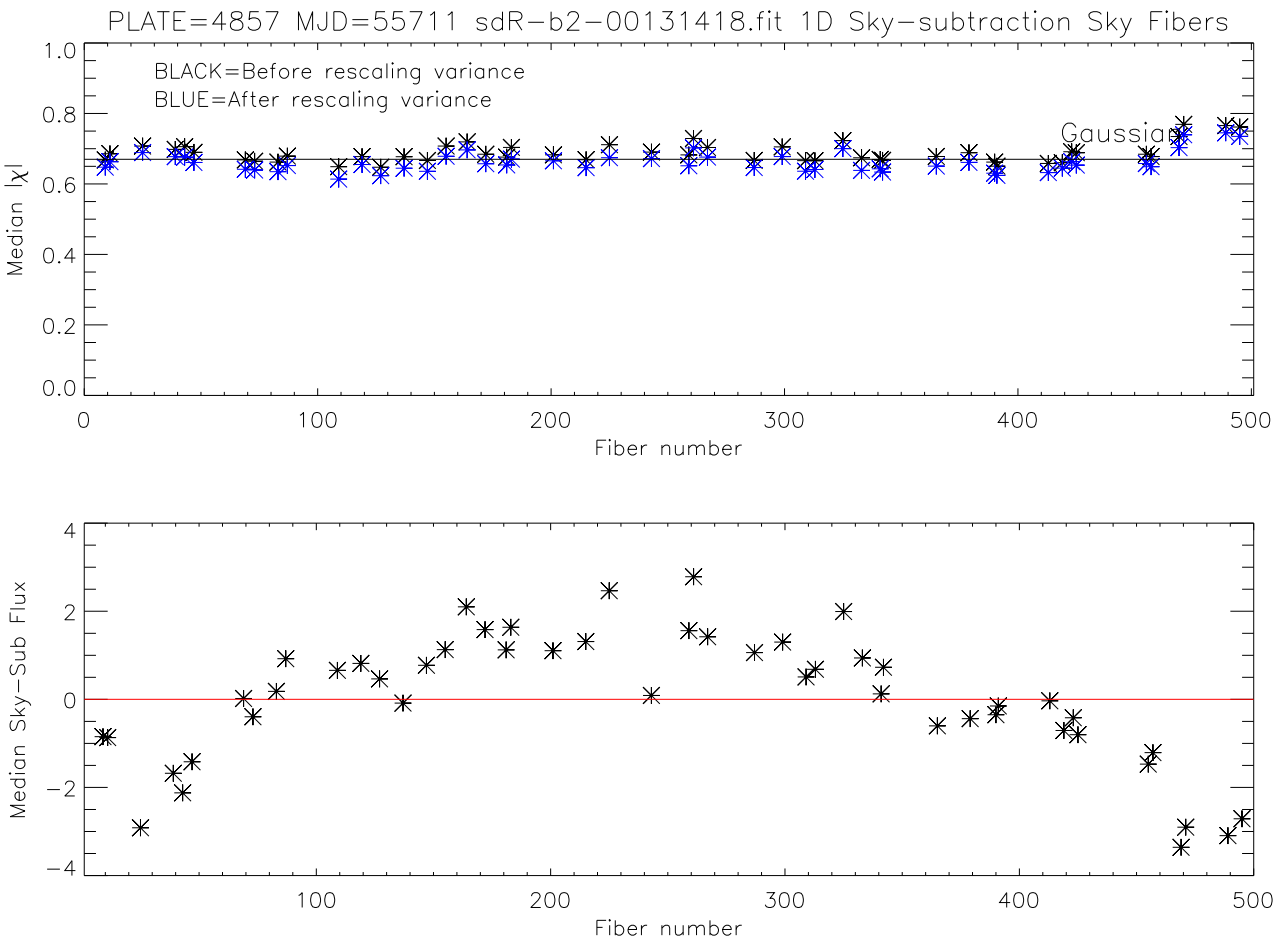

PLATE=4857 MJD=55711 sdR-b2-00131417.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 34.02 %
Fiber number
Focal Distance [mm]
Airmass

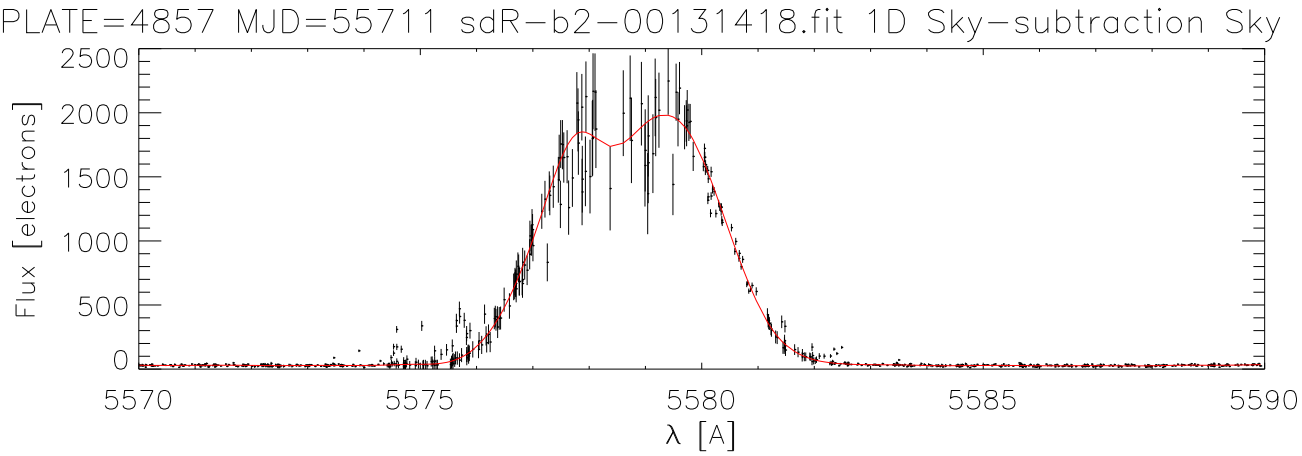

PLATE=4857 MJD=55711 Fiber−Flats for sdR−b2−00131414.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −2.744
Max value = 1.563
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Wed Nov 18 17:43:13 2015

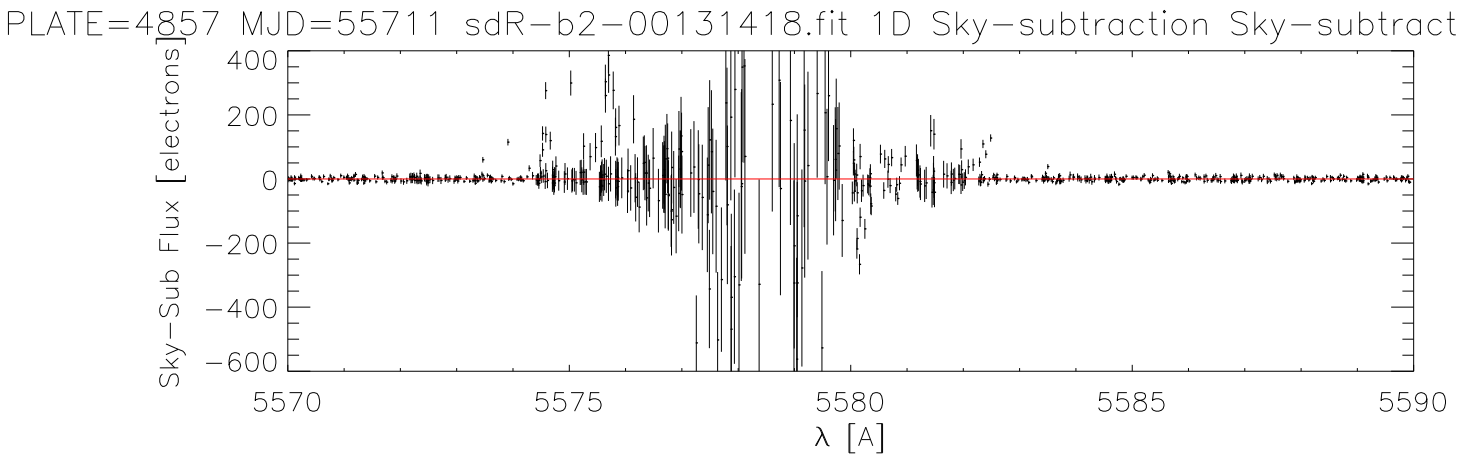

PLATE=4857 MJD=55711 Extraction chi$^2$ for sdR-b2-00131418.fit
BLACK = Final chisq extraction
$\chi^2$
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=4857 MJD=55711 Sky Line Deviations for sdR-b2-00131418.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

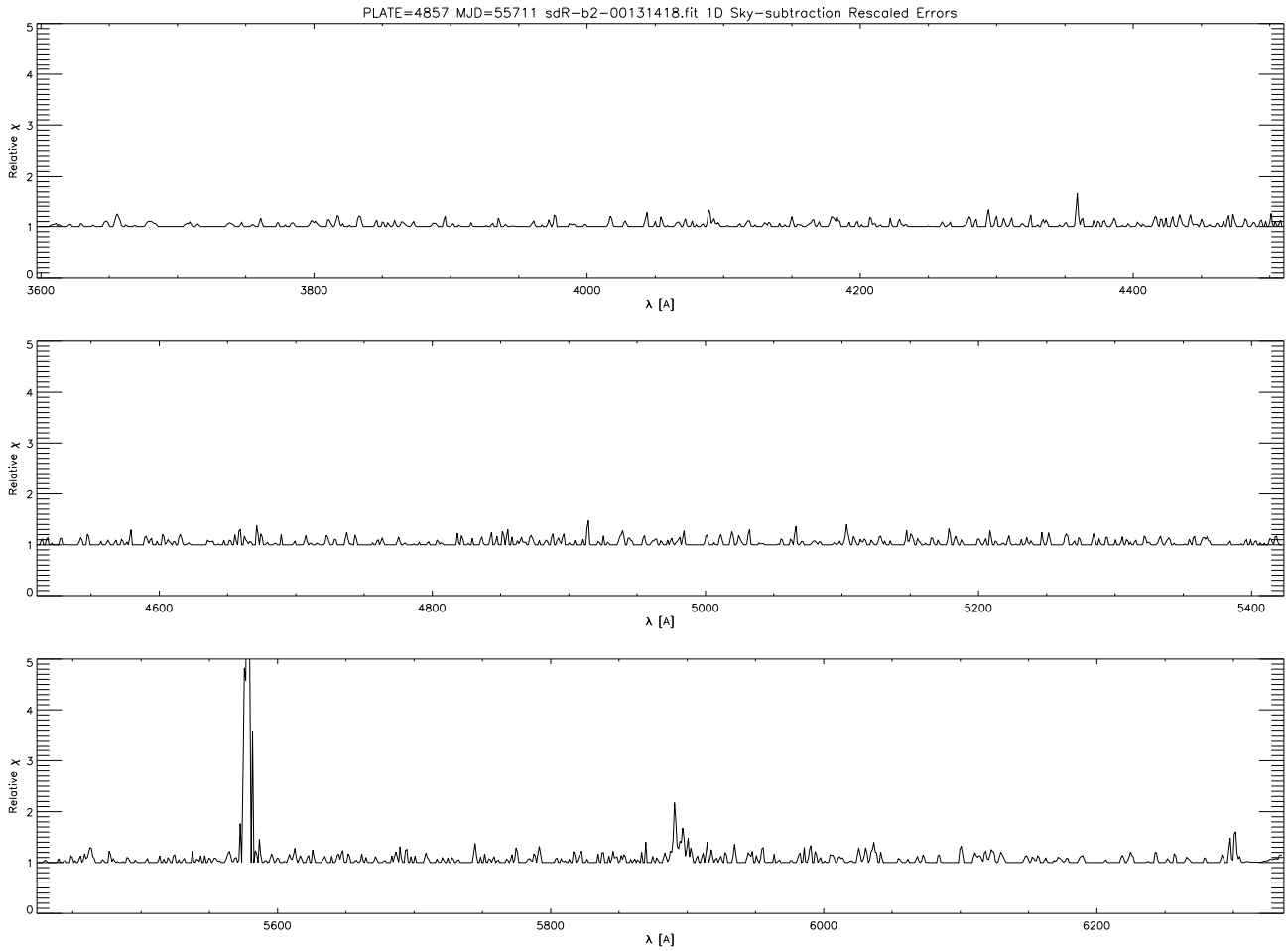

PLATE=4857 MJD=55711 Smooth superflat for sdR-b2-00131418.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

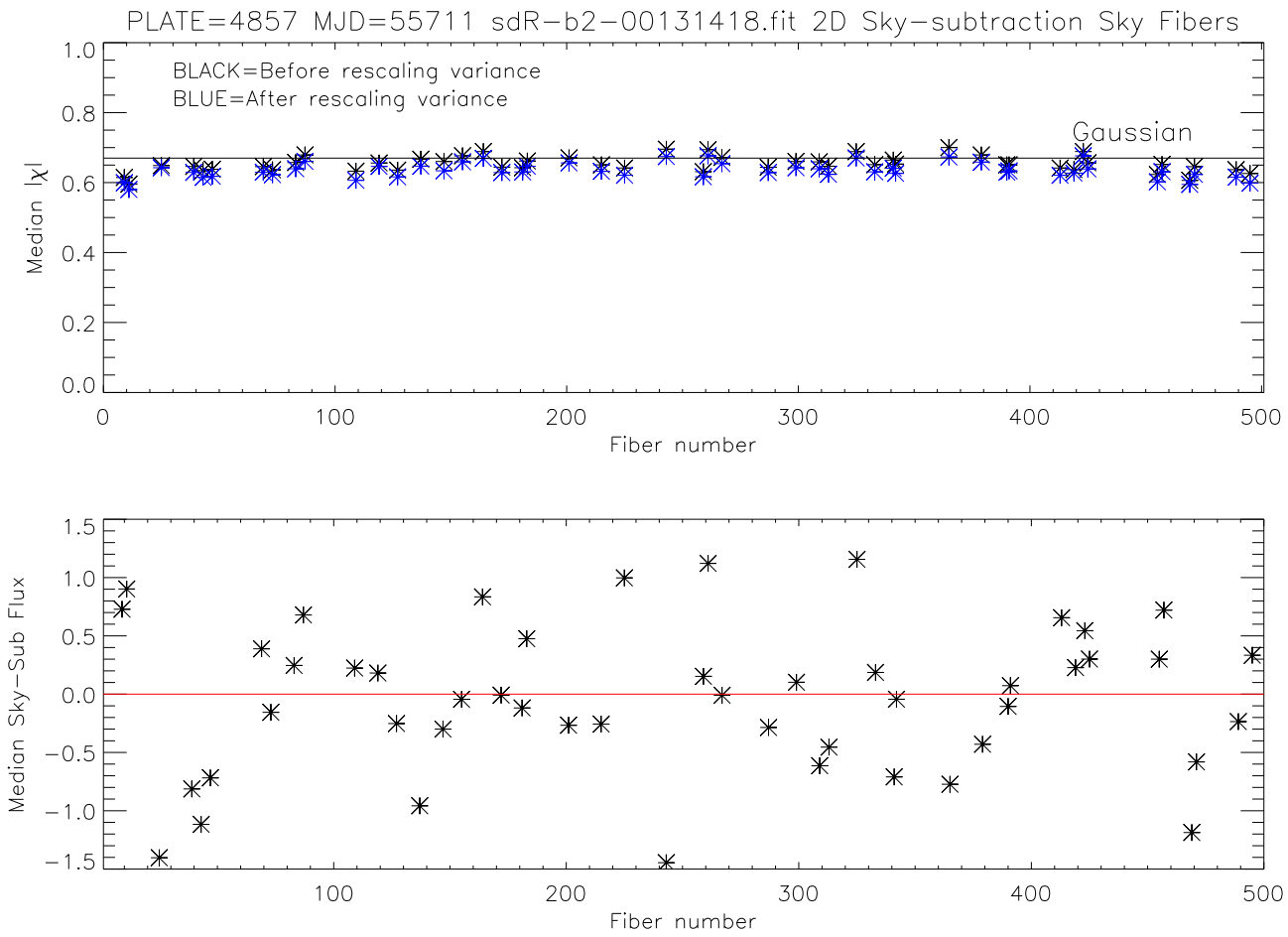

PLATE=4857 MJD=55711 sdR-b2-00131418.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

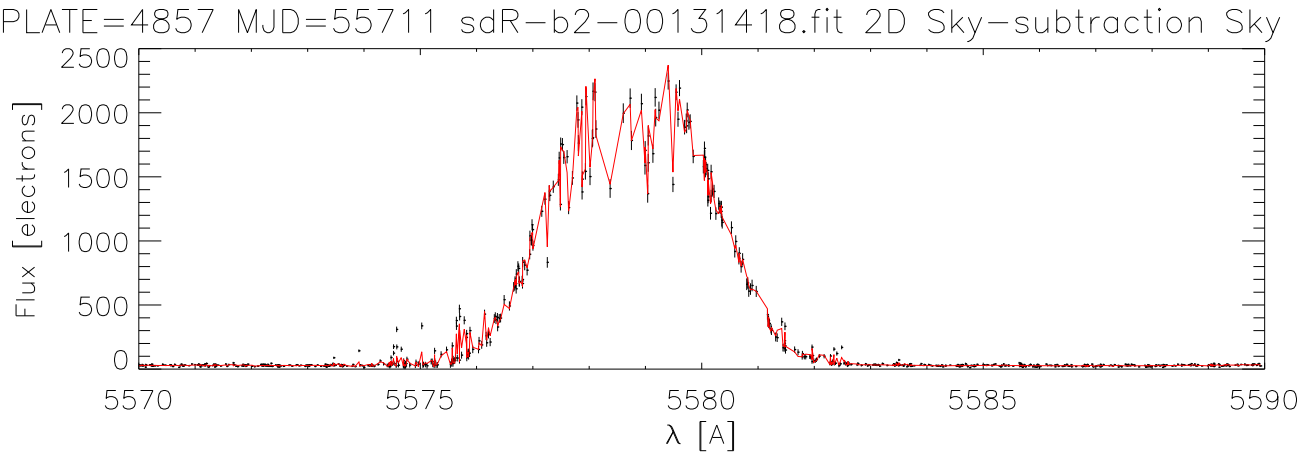

PLATE=4857 MJD=55711 sdR-b2-00131418.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

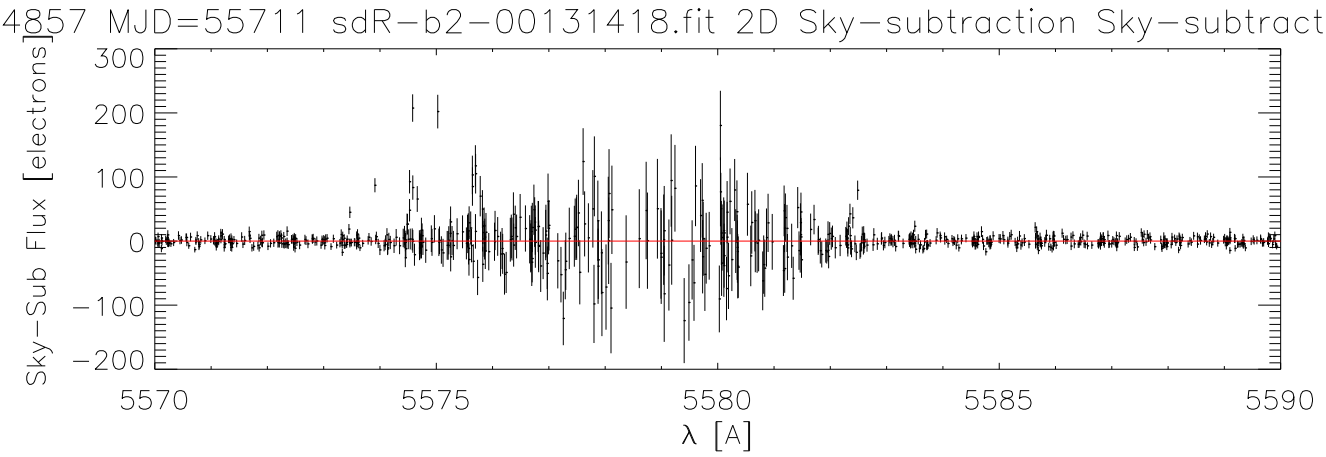

PLATE=4857 MJD=55711 sdR-b2-00131418.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 49

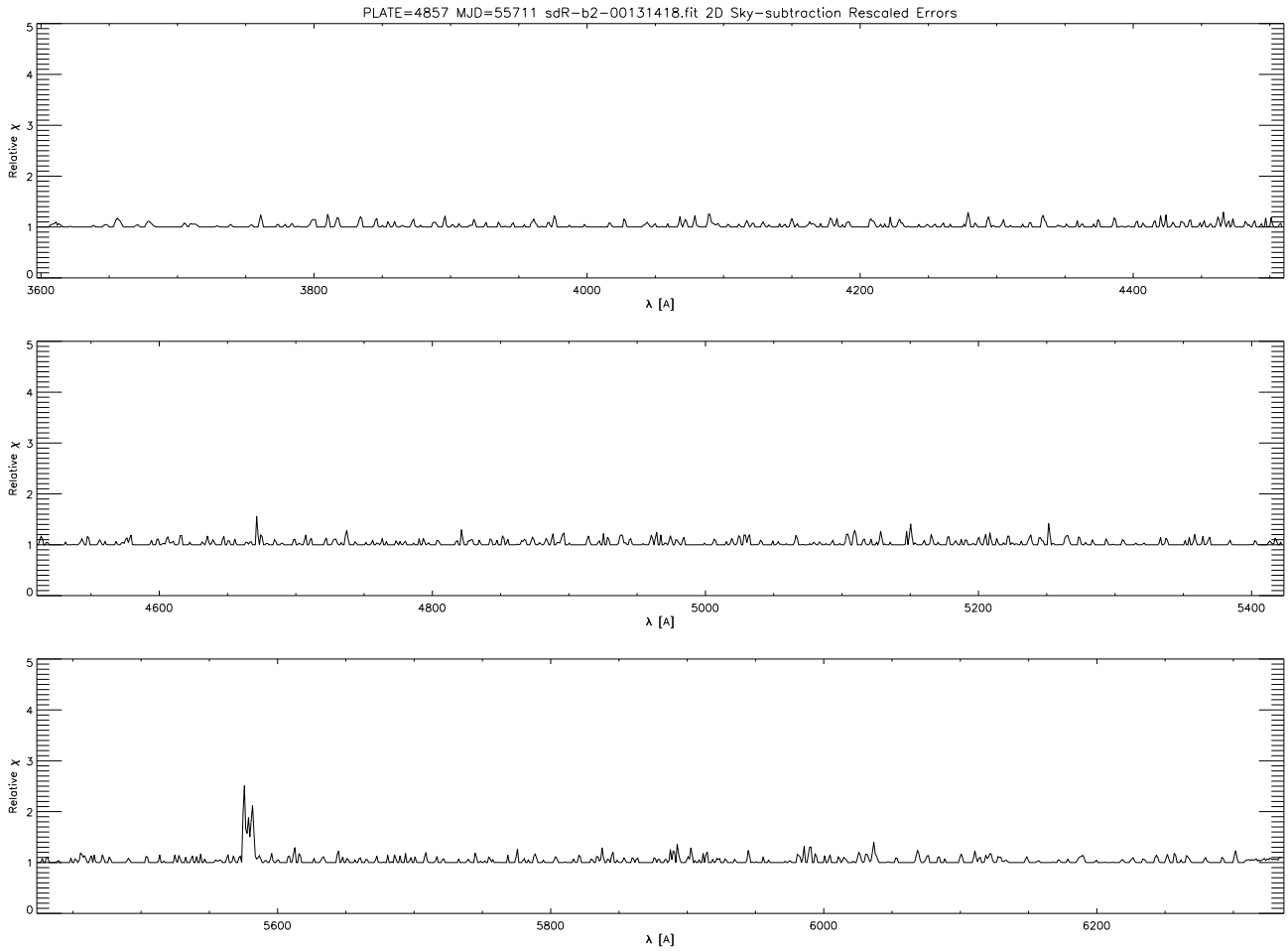


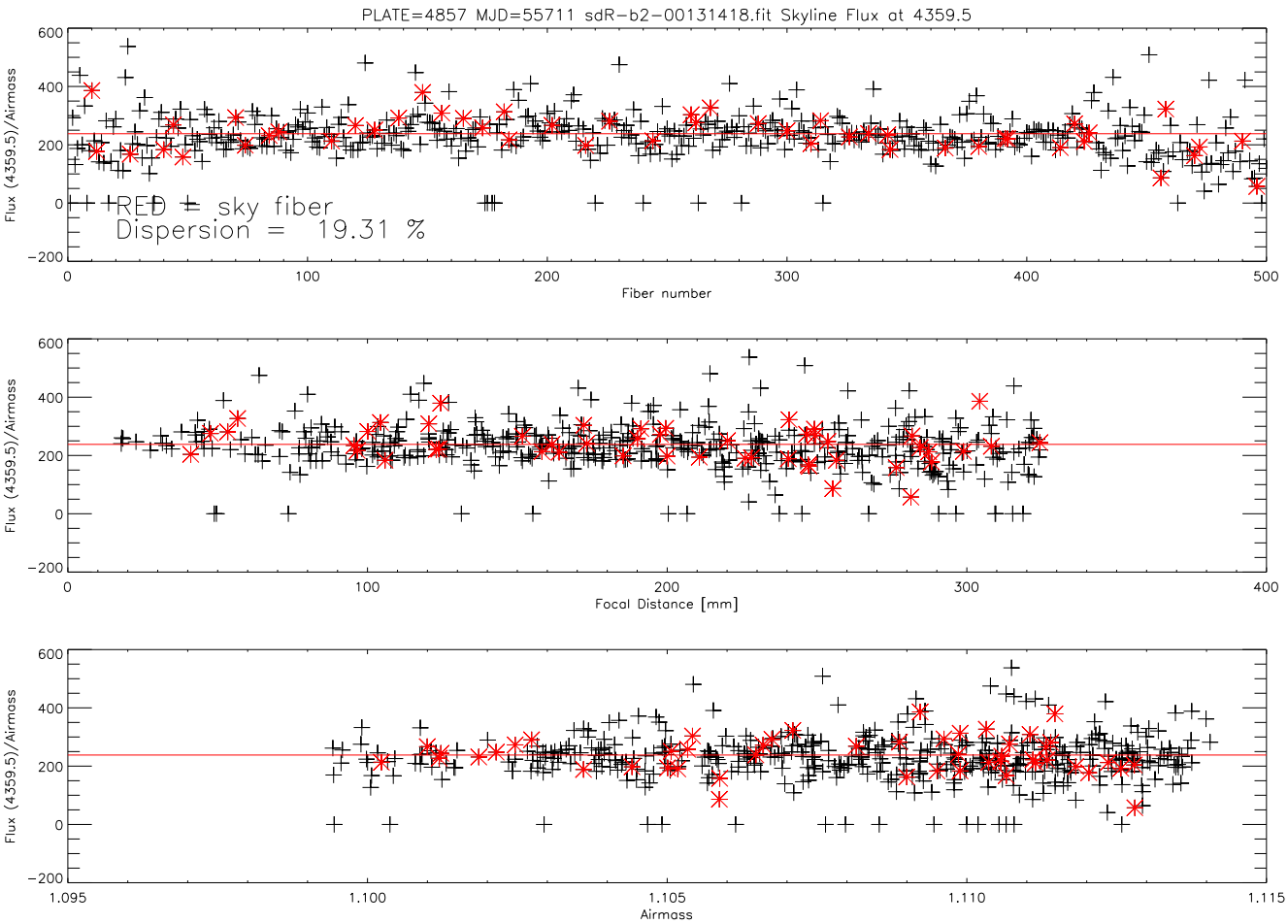

PLATE=4857 MJD=55711 sdR-b2-00131418.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

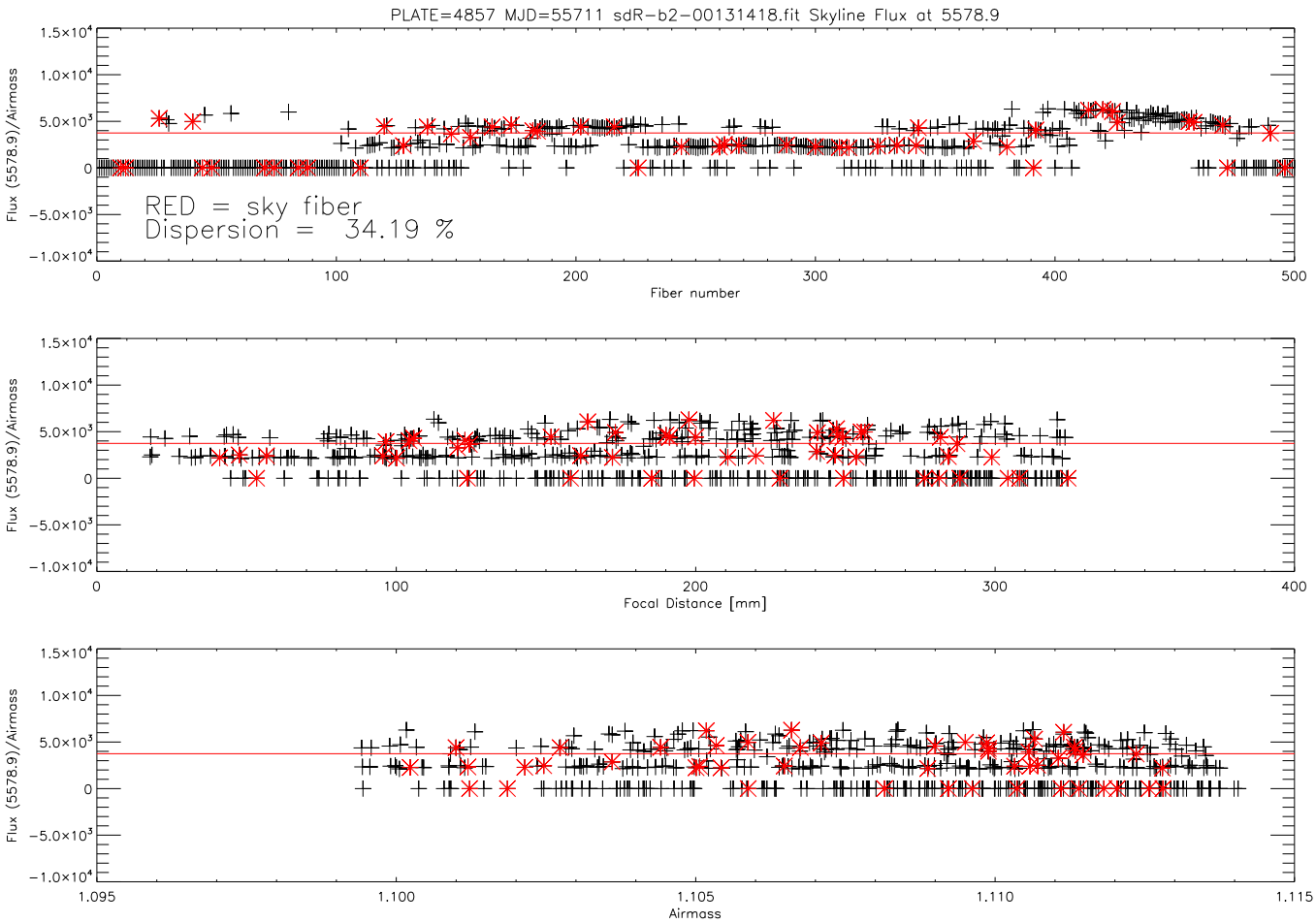

PLATE=4857 MJD=55711 sdR-b2-00131418.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

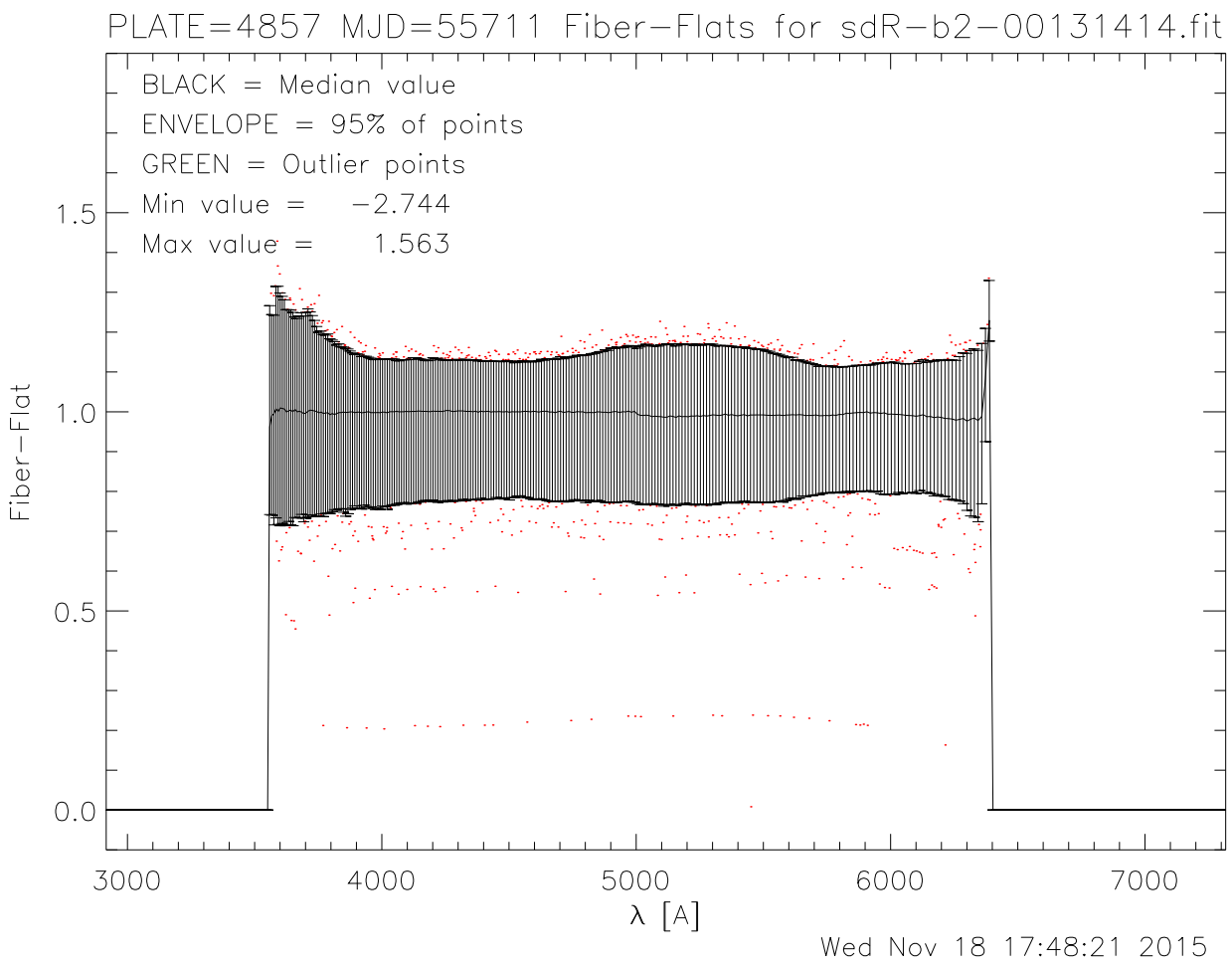

PLATE=4857 MJD=55711 sdR-b2-00131418.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

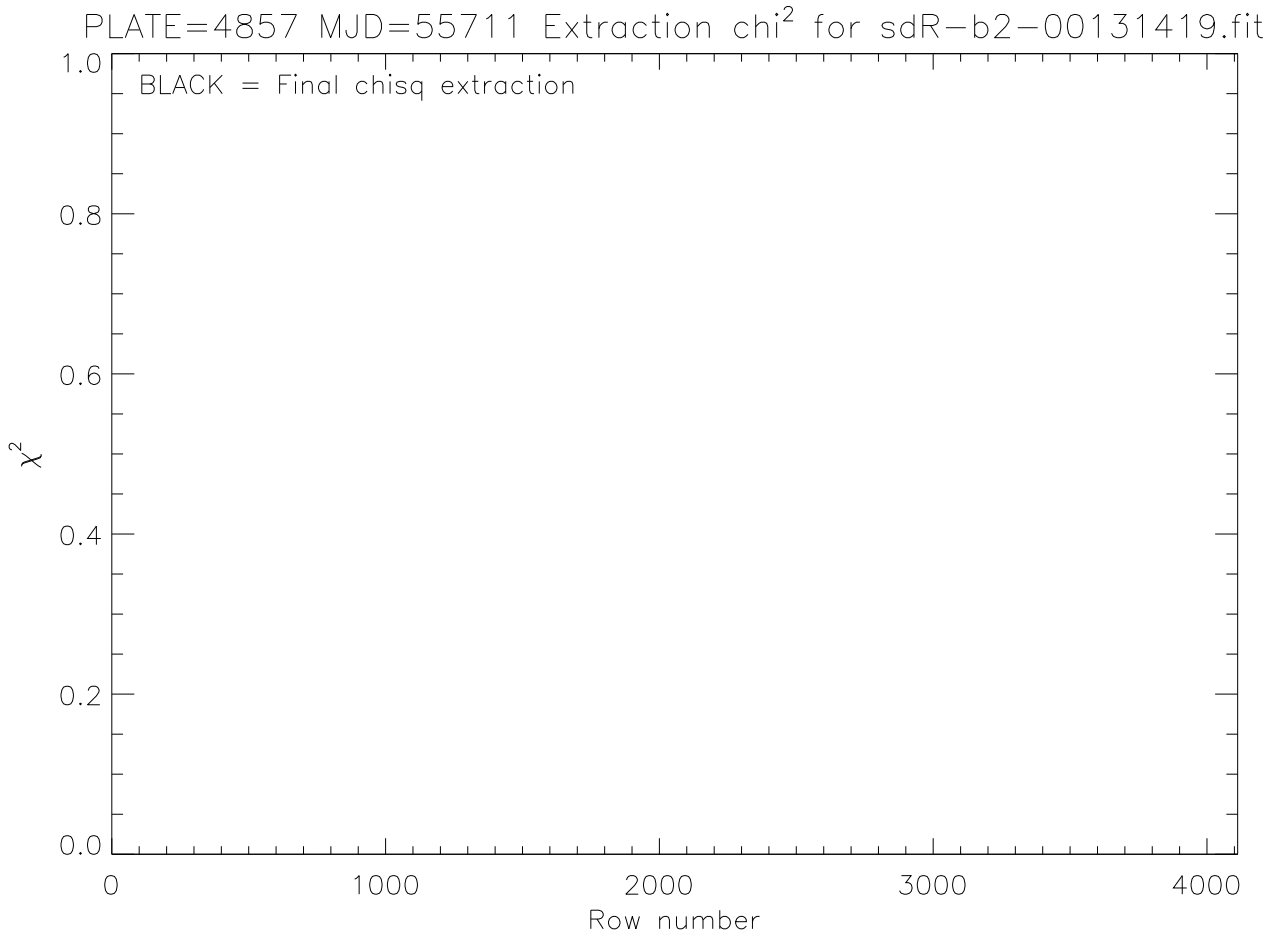
Number of sky fibers = 49

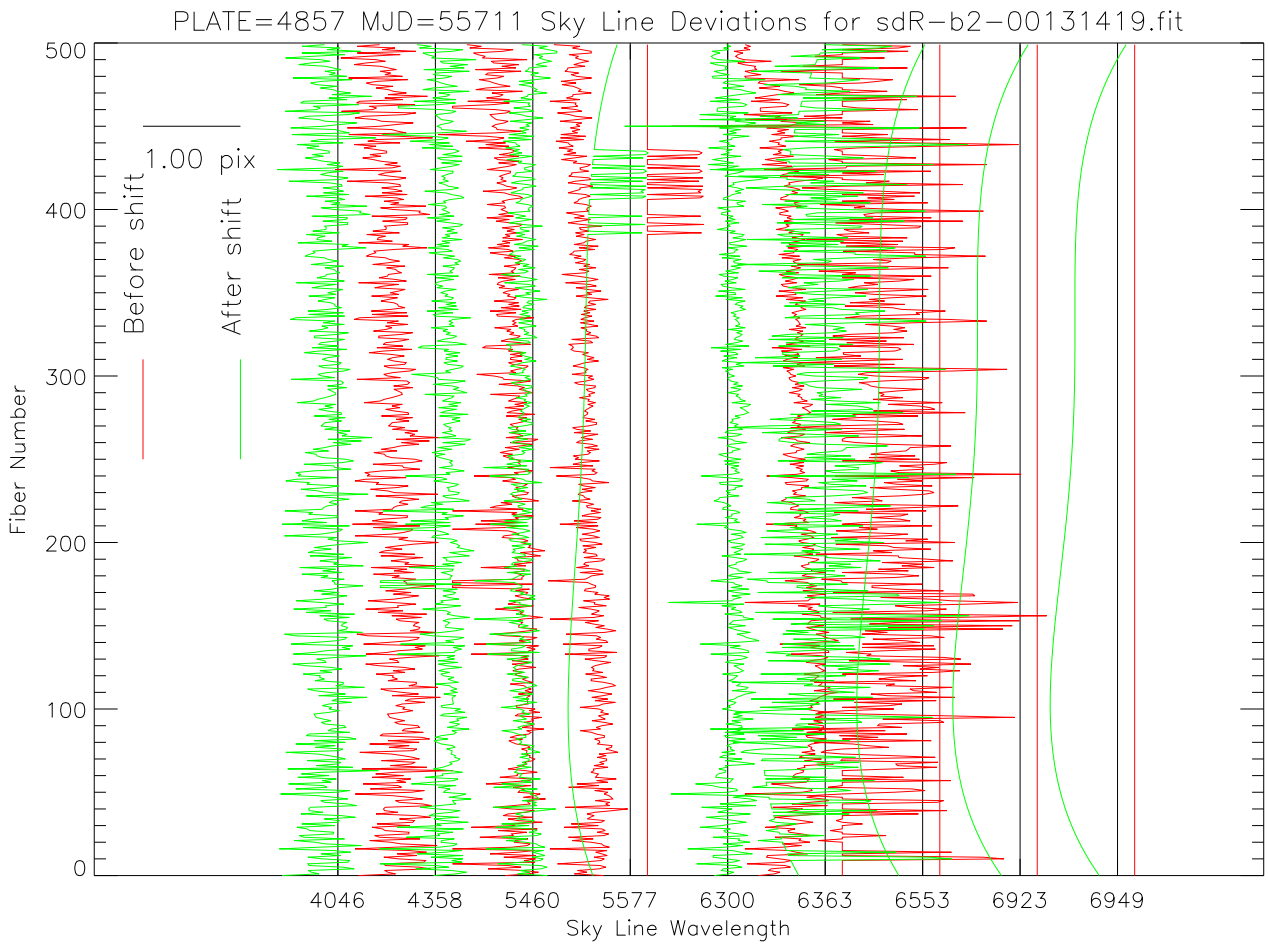


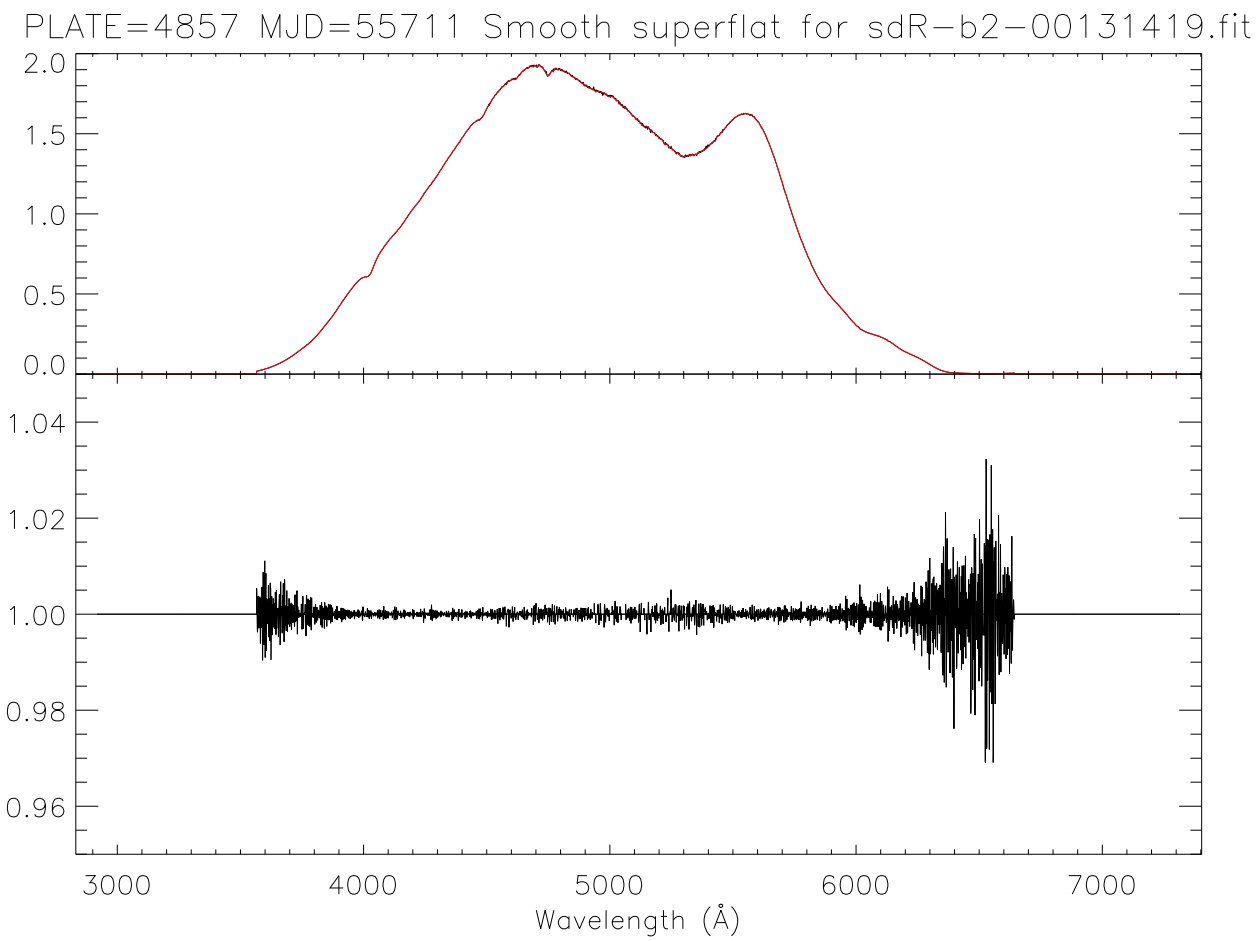

PLATE=4857 MJD=55711 sdR-b2-00131418.fit Skyline Flux at 4359.5
RED = sky fiber
Dispersion = 19.31 %
Flux (4359.5)/Airmass
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

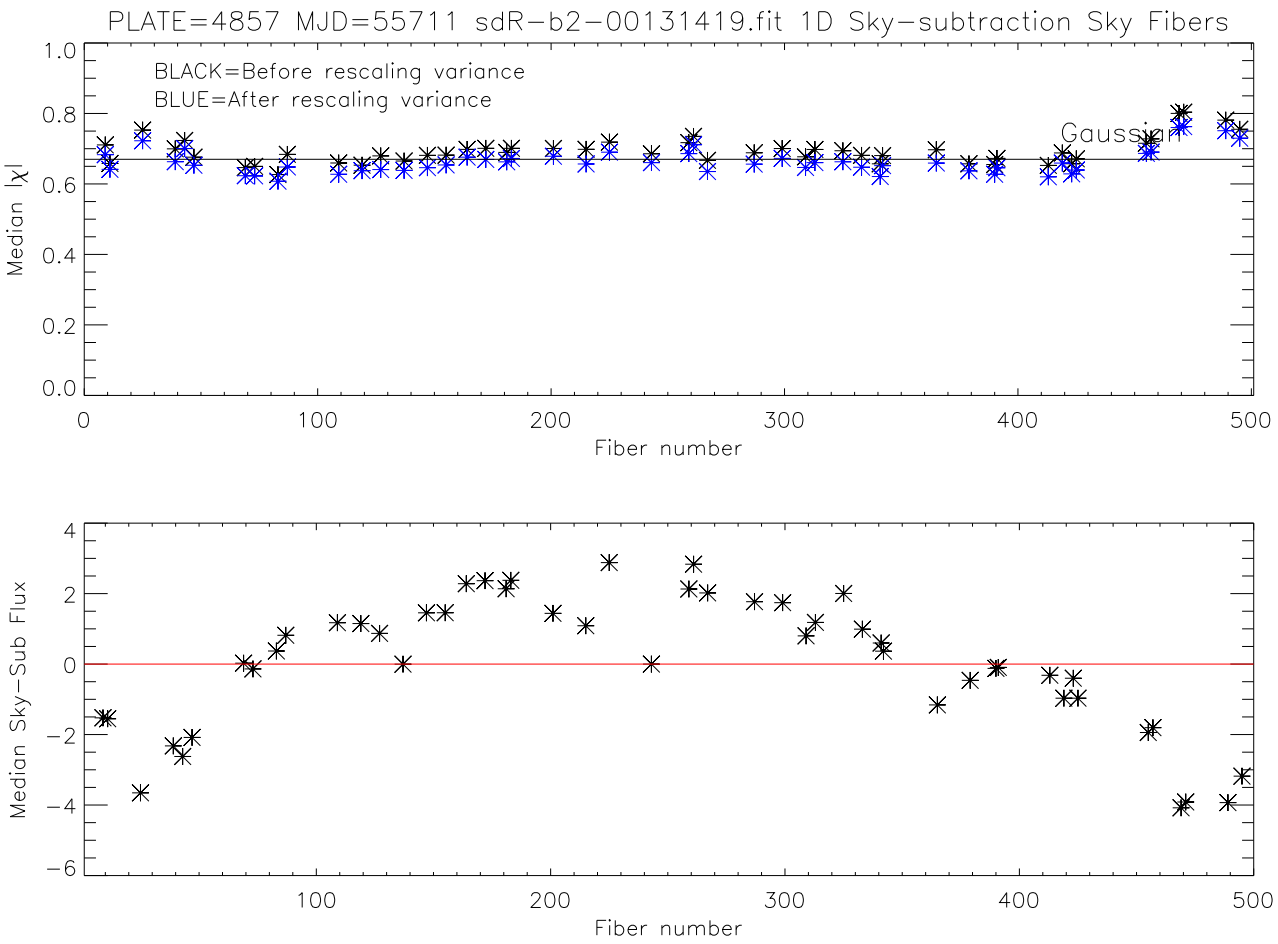

PLATE=4857 MJD=55711 sdR-b2-00131418.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 34.19 %
Fiber number
Focal Distance [mm]
Airmass

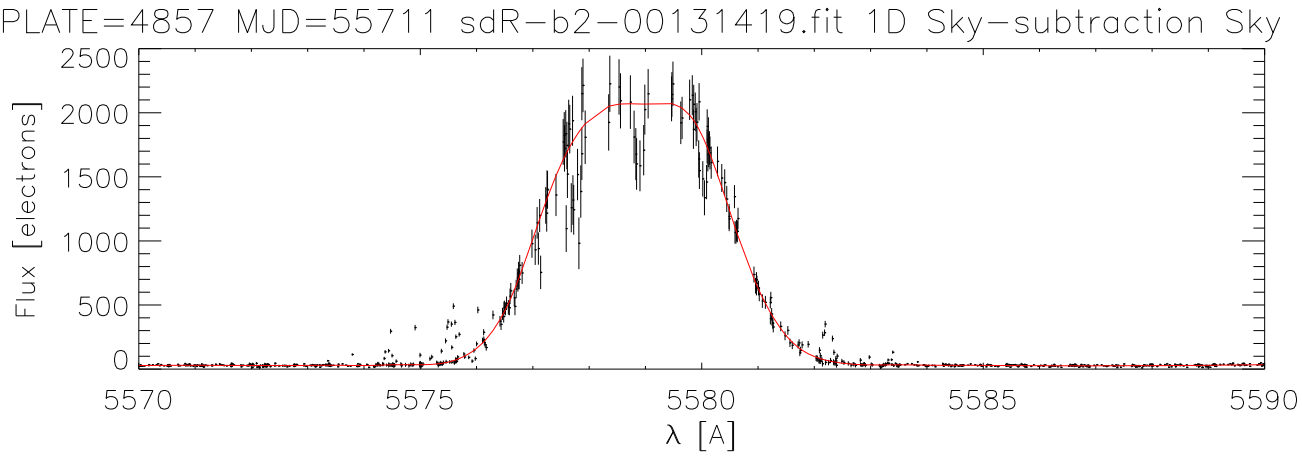

PLATE=4857 MJD=55711 Fiber−Flats for sdR−b2−00131414.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −2.744
Max value = 1.563
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Wed Nov 18 17:48:21 2015

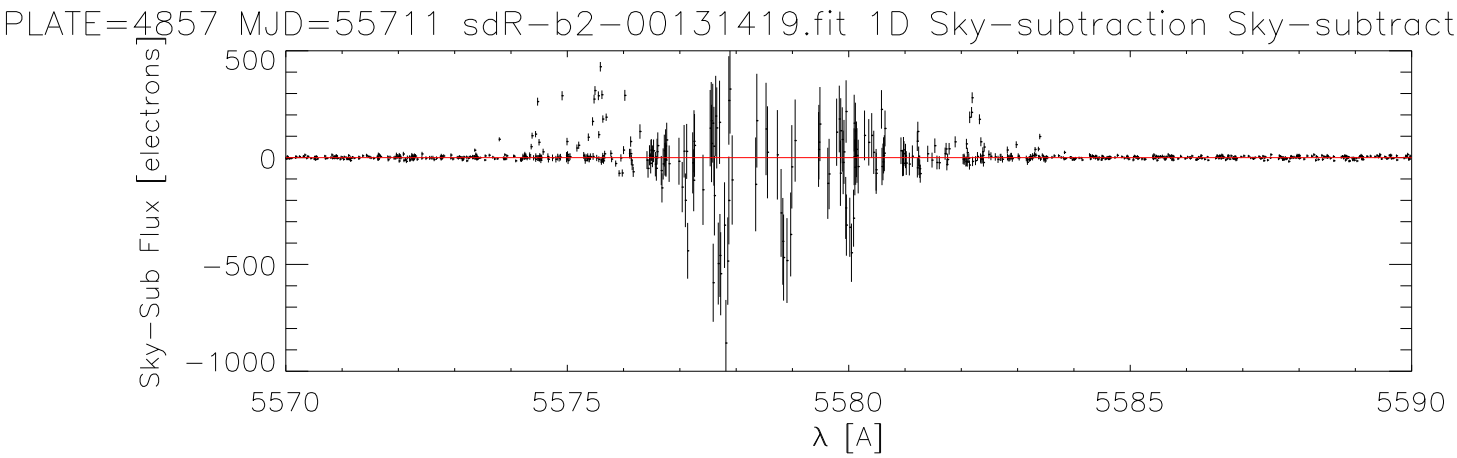

PLATE=4857 MJD=55711 Extraction chi$^2$ for sdR-b2-00131419.fit
BLACK = Final chisq extraction
$\chi^2$
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=4857 MJD=55711 Sky Line Deviations for sdR-b2-00131419.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

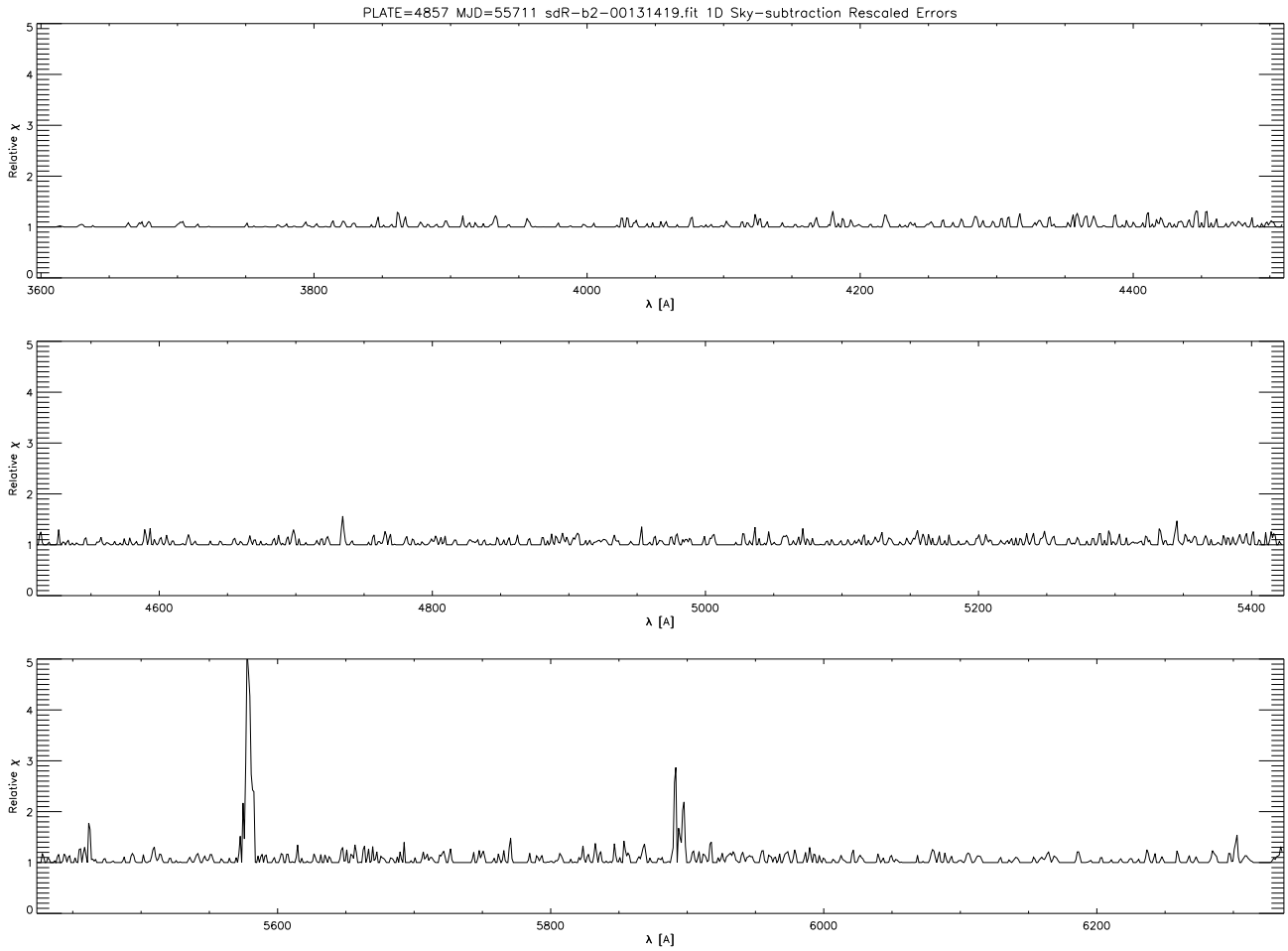

PLATE=4857 MJD=55711 Smooth superflat for sdR-b2-00131419.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

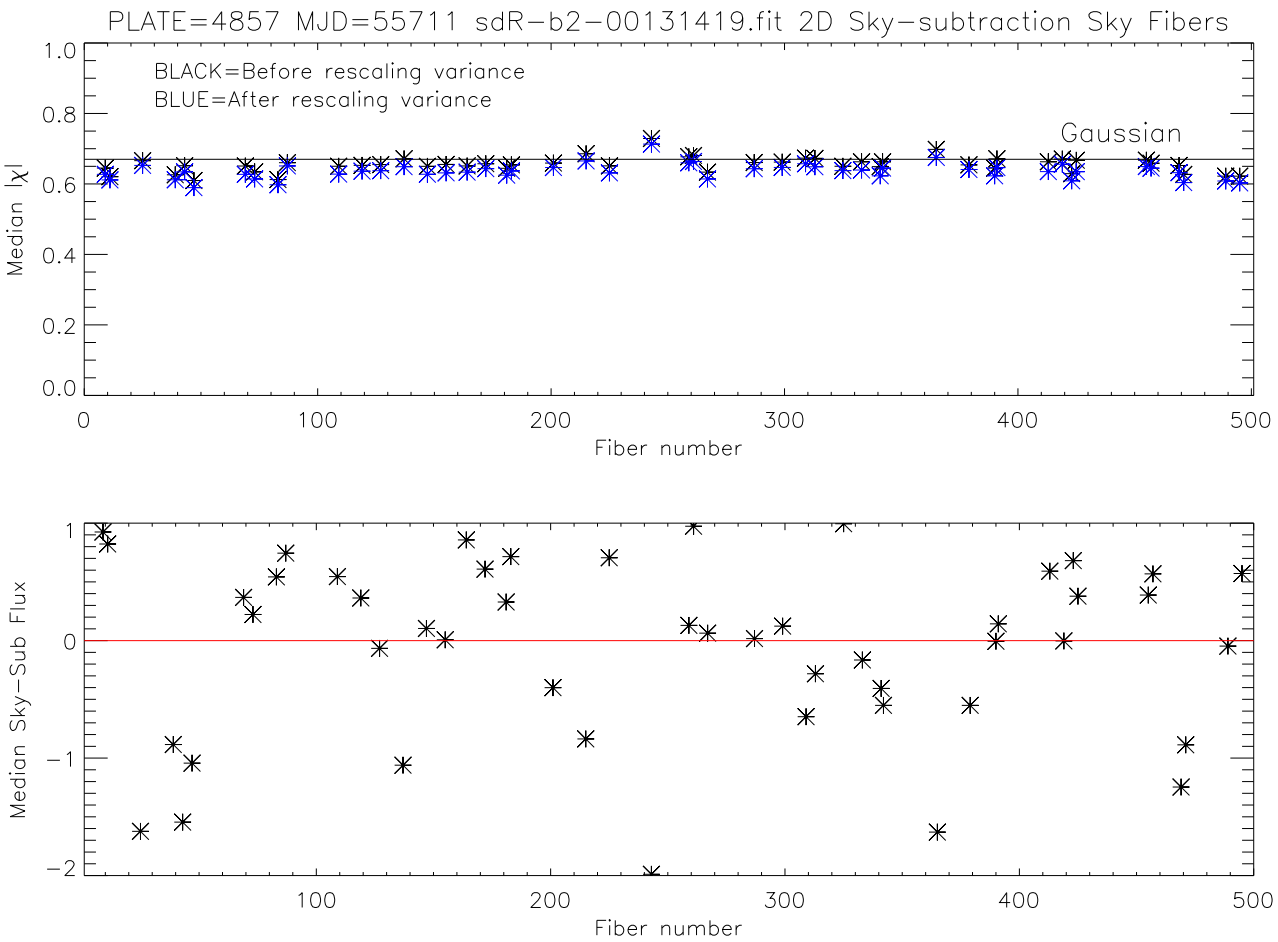

PLATE=4857 MJD=55711 sdR-b2-00131419.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

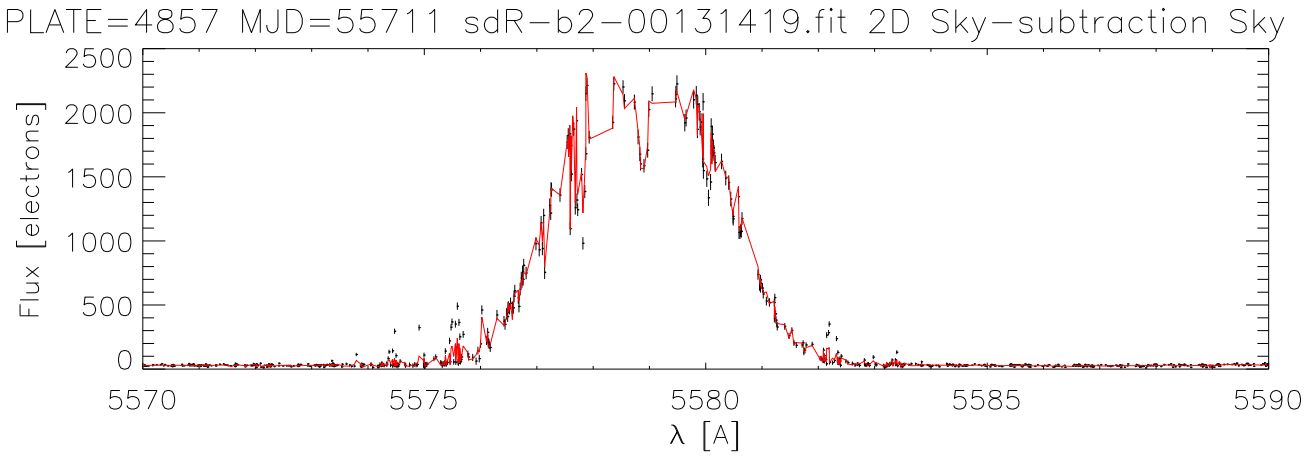

PLATE=4857 MJD=55711 sdR-b2-00131419.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

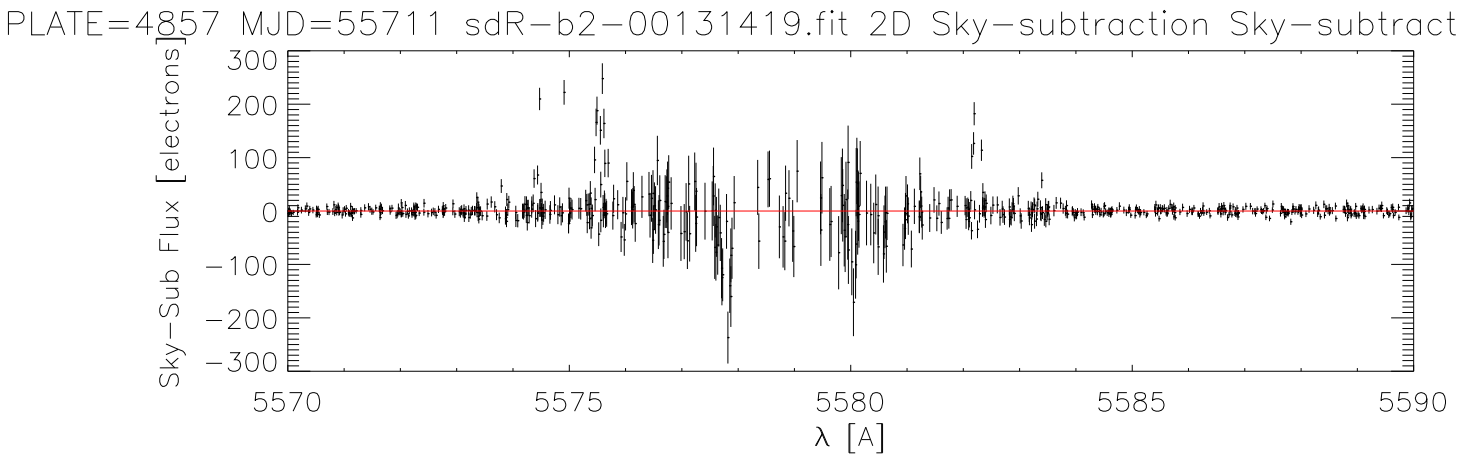

PLATE=4857 MJD=55711 sdR-b2-00131419.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
500
0
-500
-1000
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 49

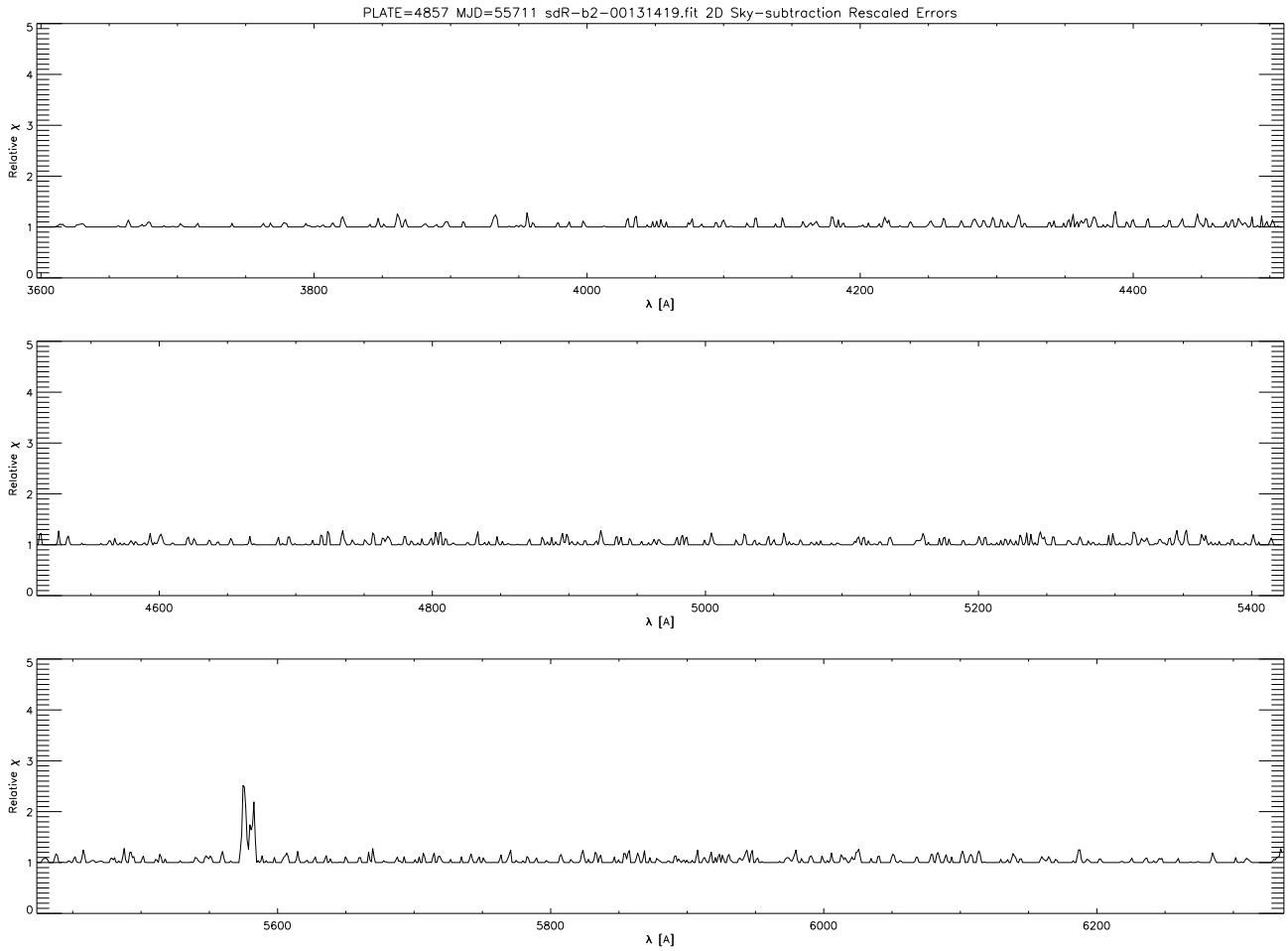


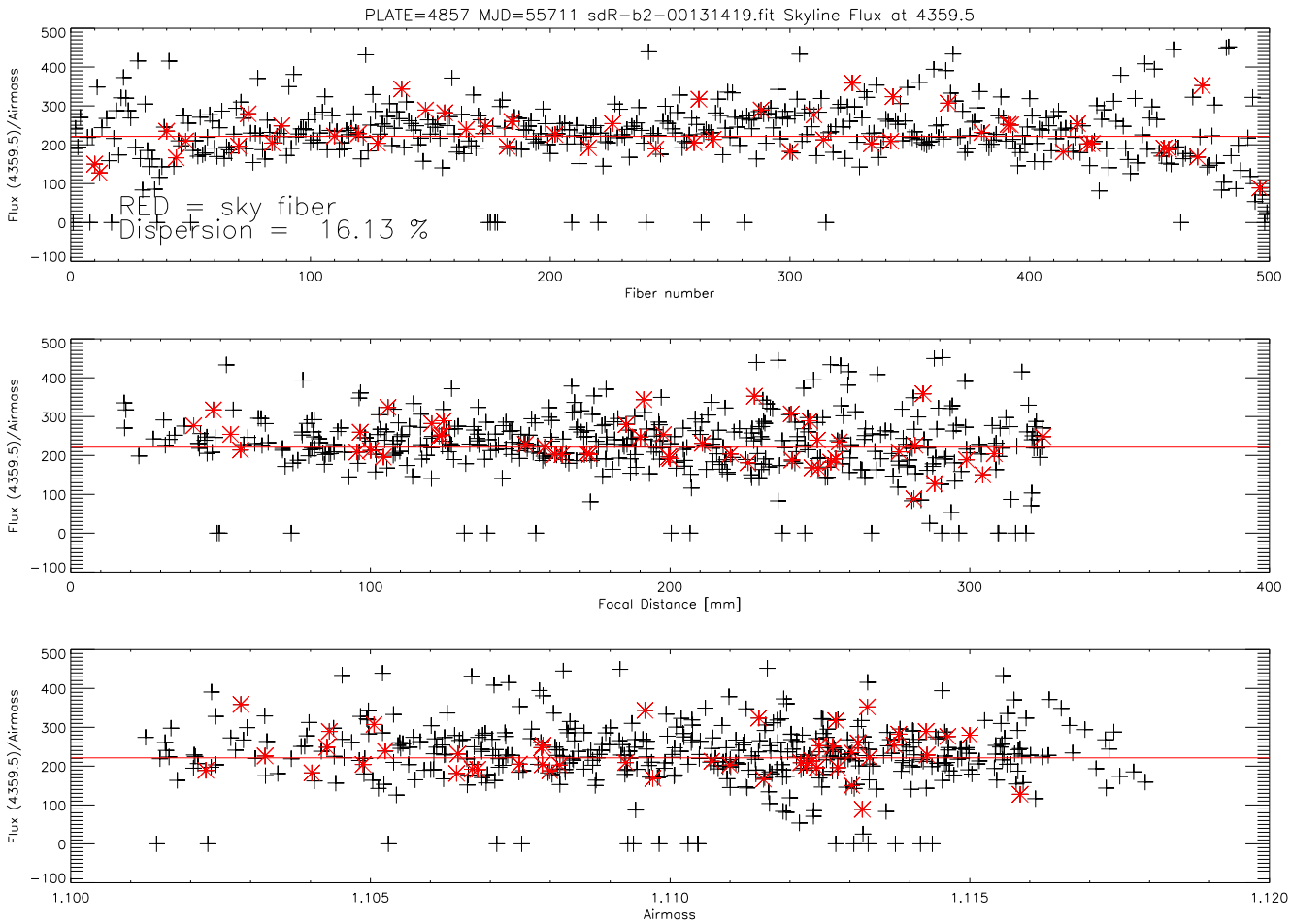

PLATE=4857 MJD=55711 sdR-b2-00131419.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

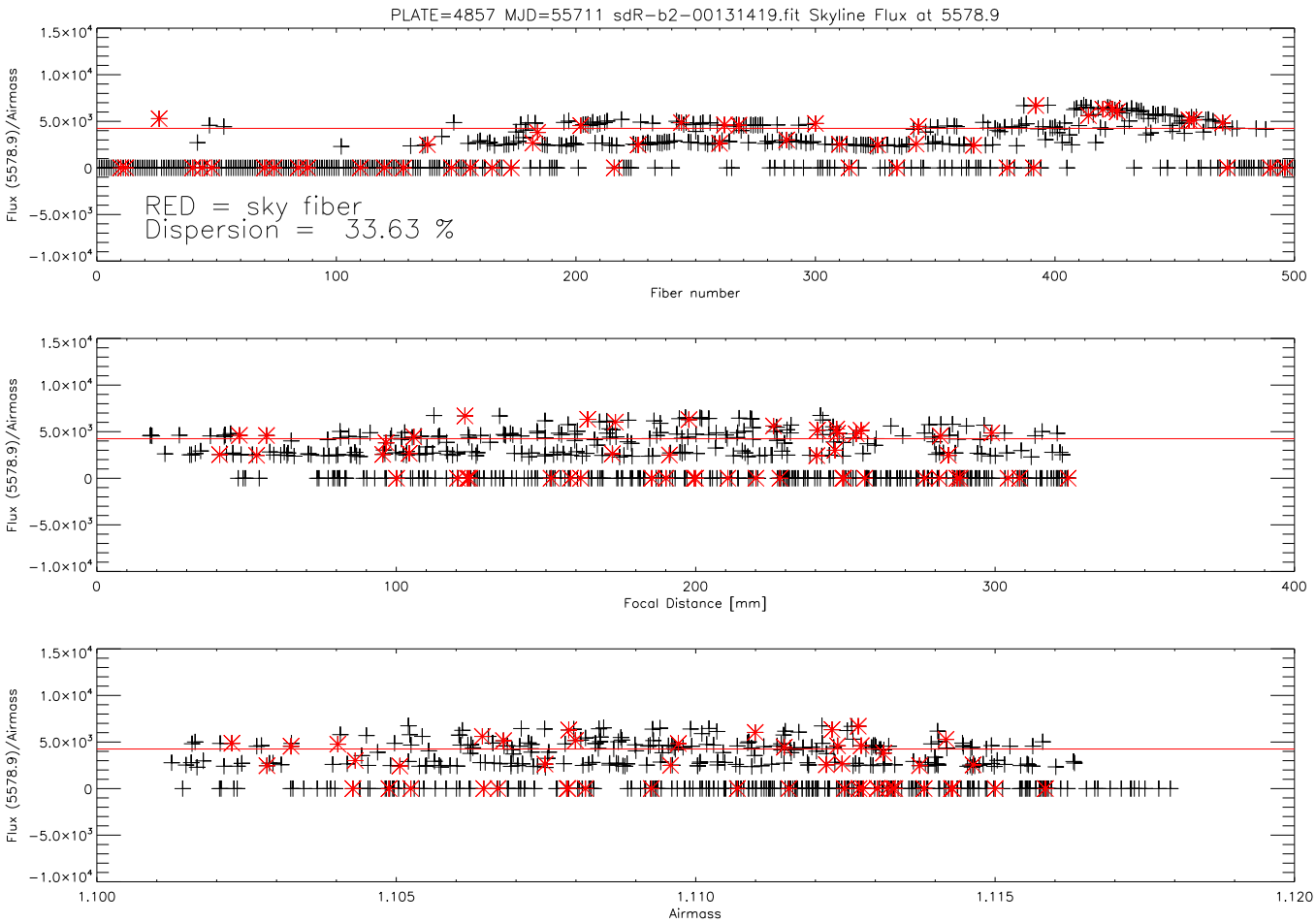

PLATE=4857 MJD=55711 sdR-b2-00131419.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]


PLATE=4857 MJD=55711 sdR-b2-00131419.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

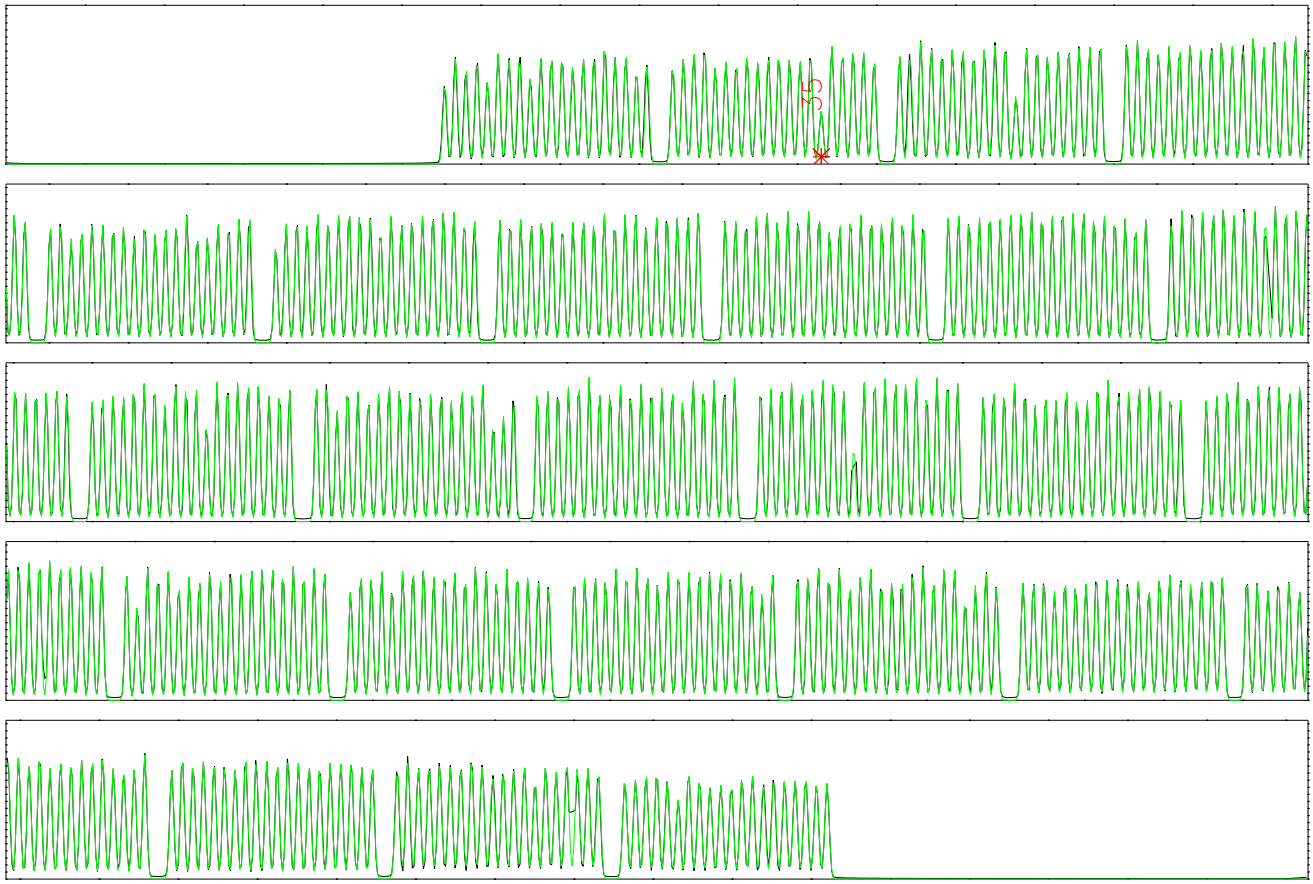
Number of sky fibers = 49

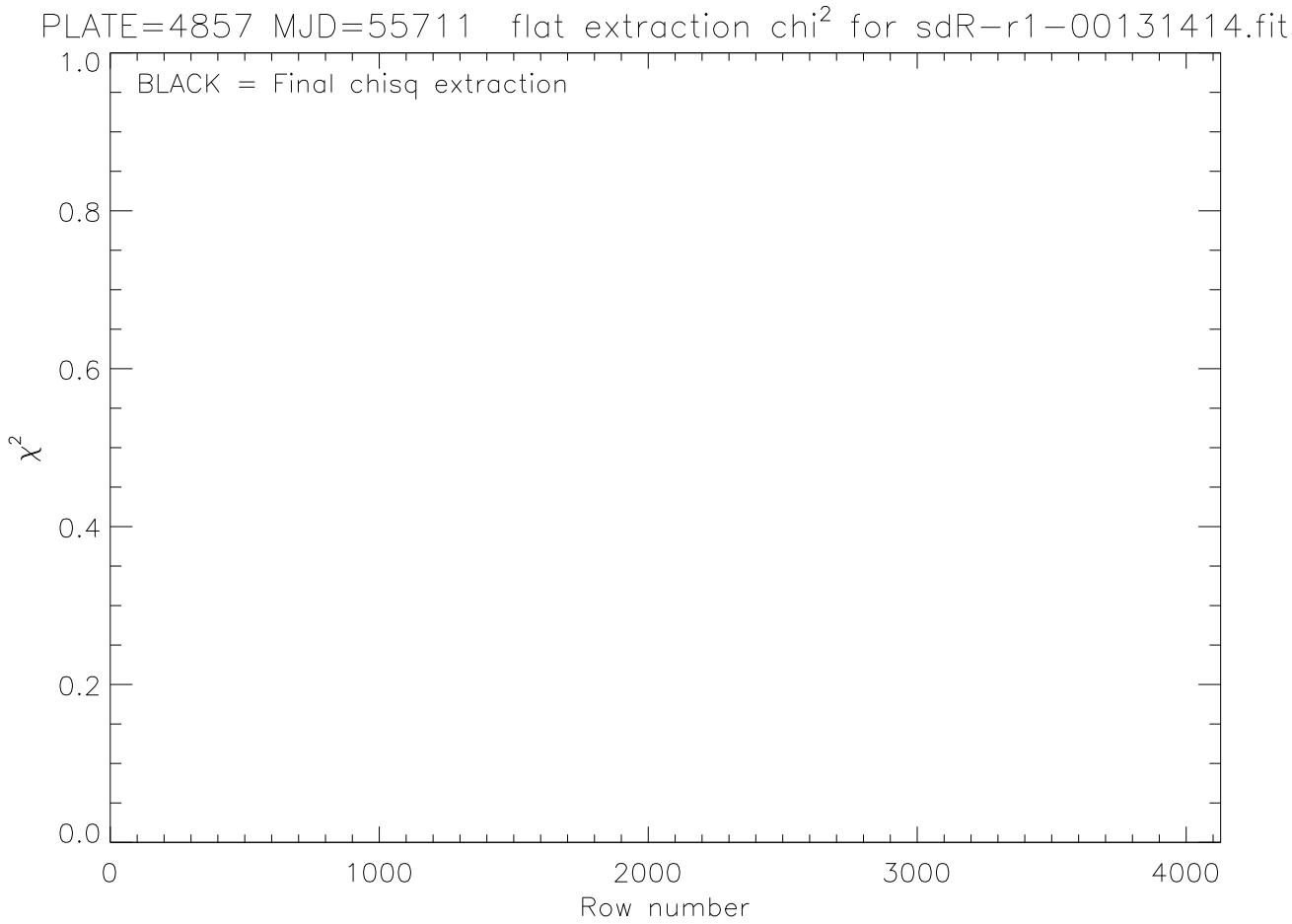


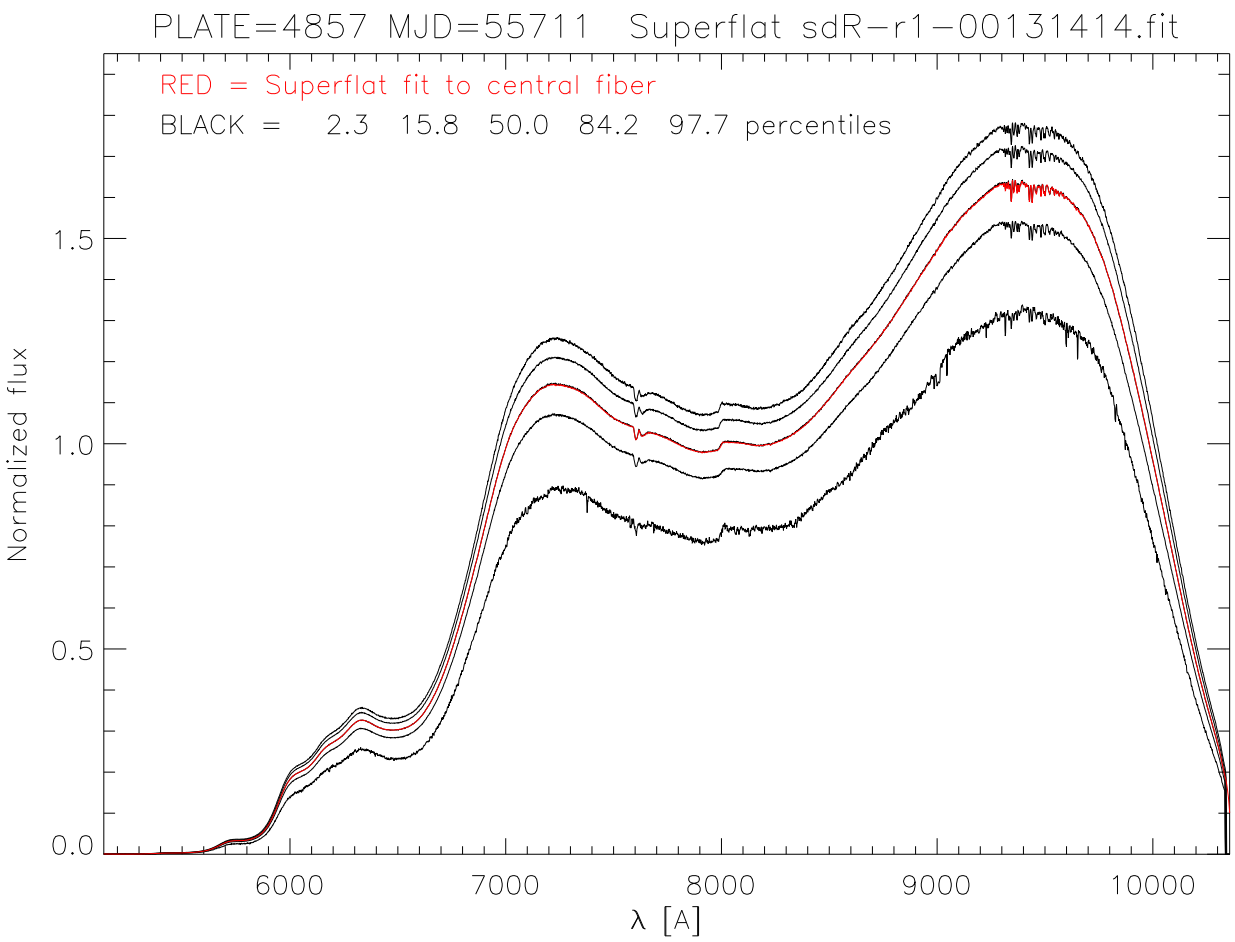

PLATE=4857 MJD=55711 sdR-b2-00131419.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 16.13 %
Fiber number
Focal Distance [mm]
Airmass

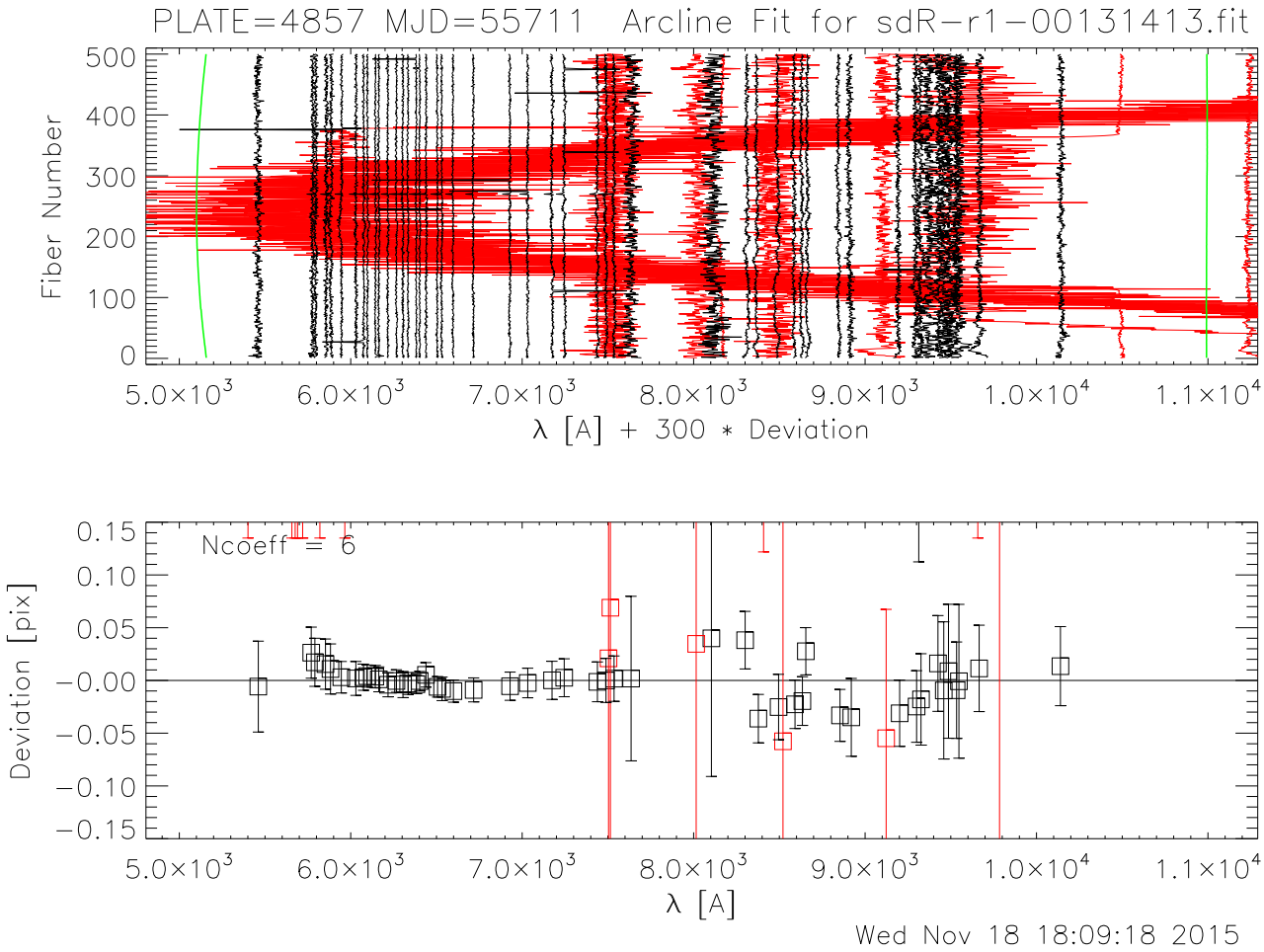

PLATE=4857 MJD=55711 sdR-b2-00131419.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 33.63 %
Fiber number
Focal Distance [mm]
Airmass

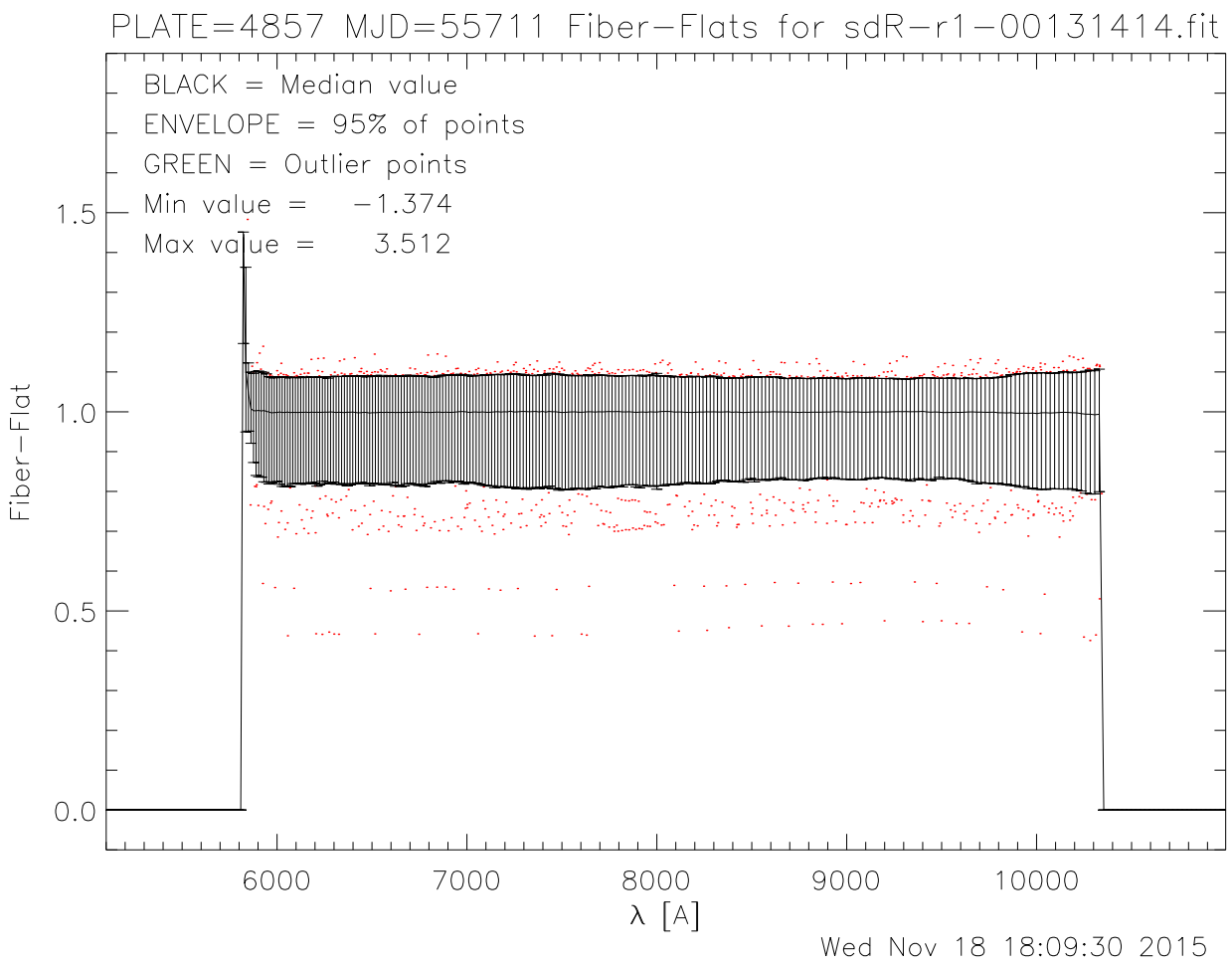
PLATE=4857 MJD=55711 Traces sdR-r1-00131414.fit

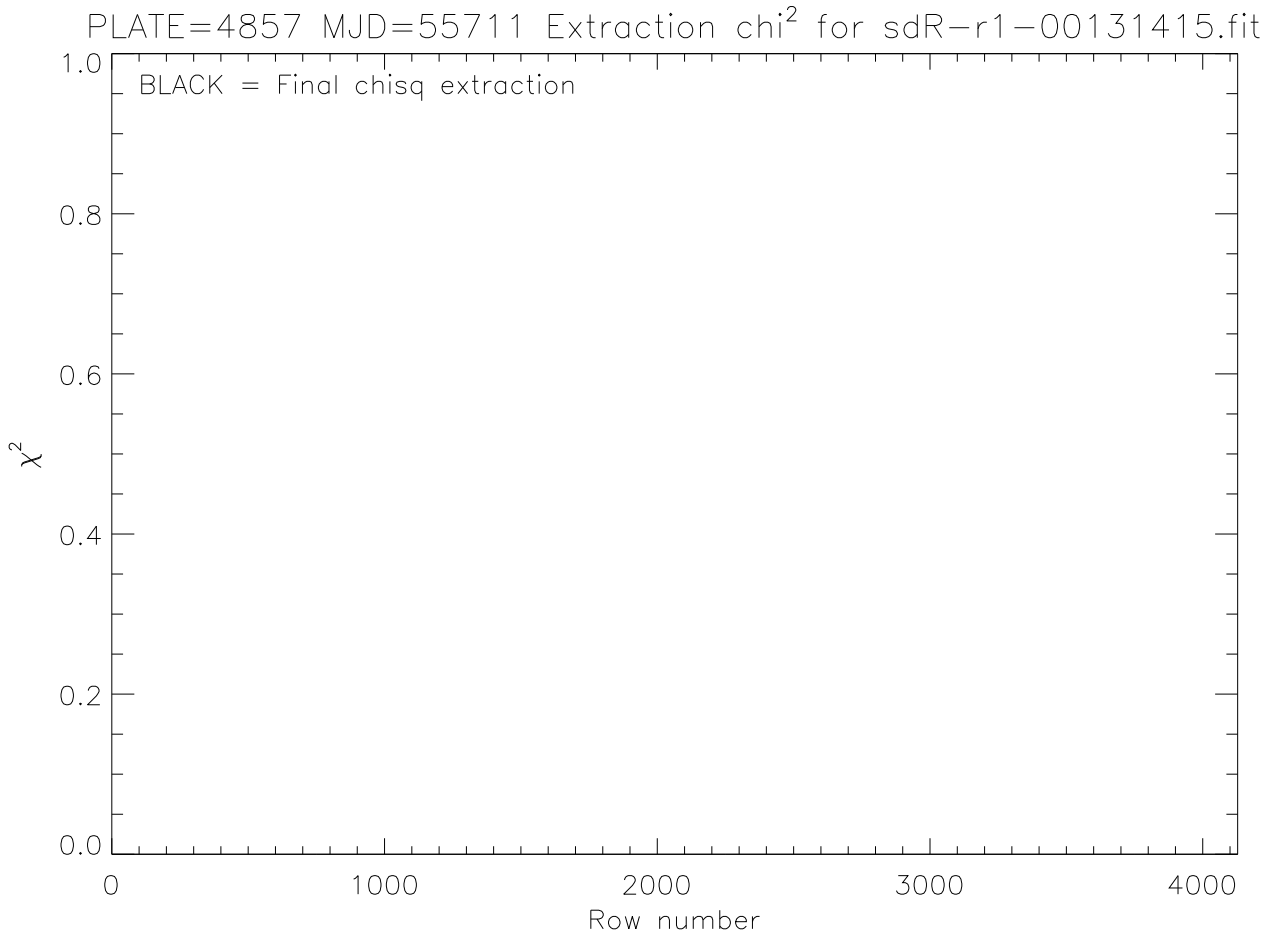


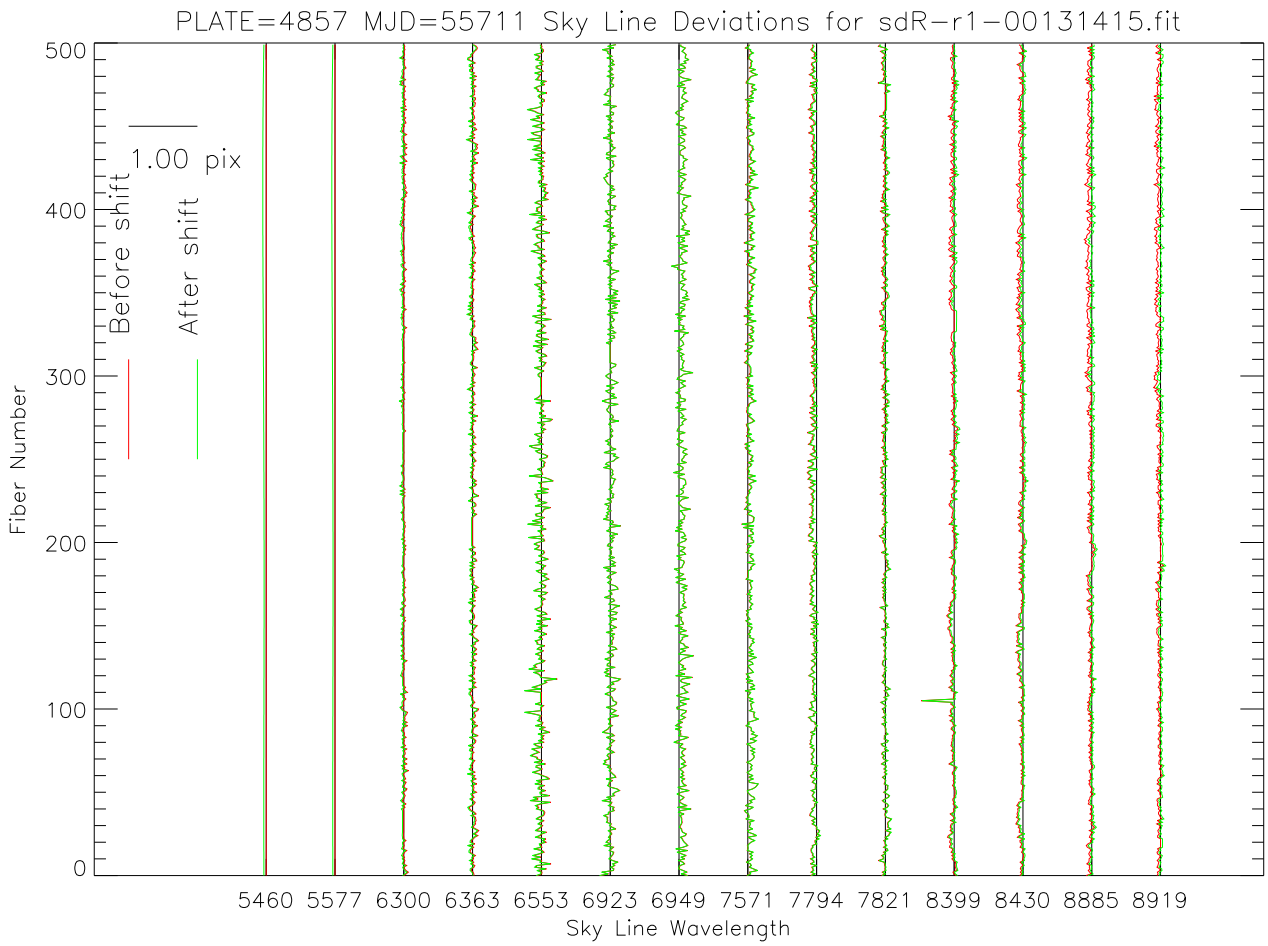

PLATE=4857 MJD=55711 flat extraction chi$^2$ for sdR-r1-00131414.fit
BLACK = Final chisq extraction
$\chi^2$
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number

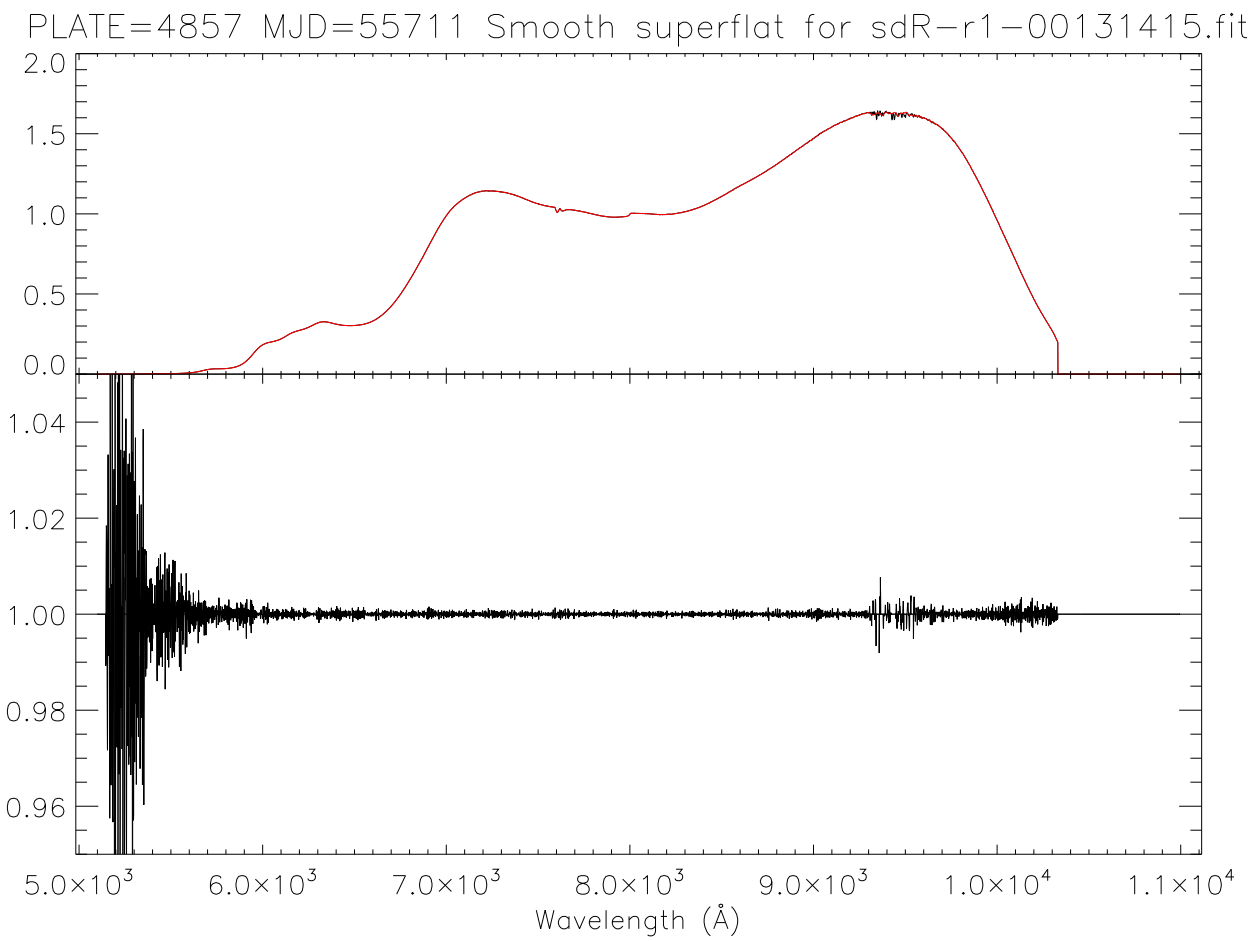

PLATE=4857 MJD=55711 Superflat sdR-r1-00131414.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
0.0
0.5
1.0
1.5
6000
7000
8000
9000
10000
λ [A]

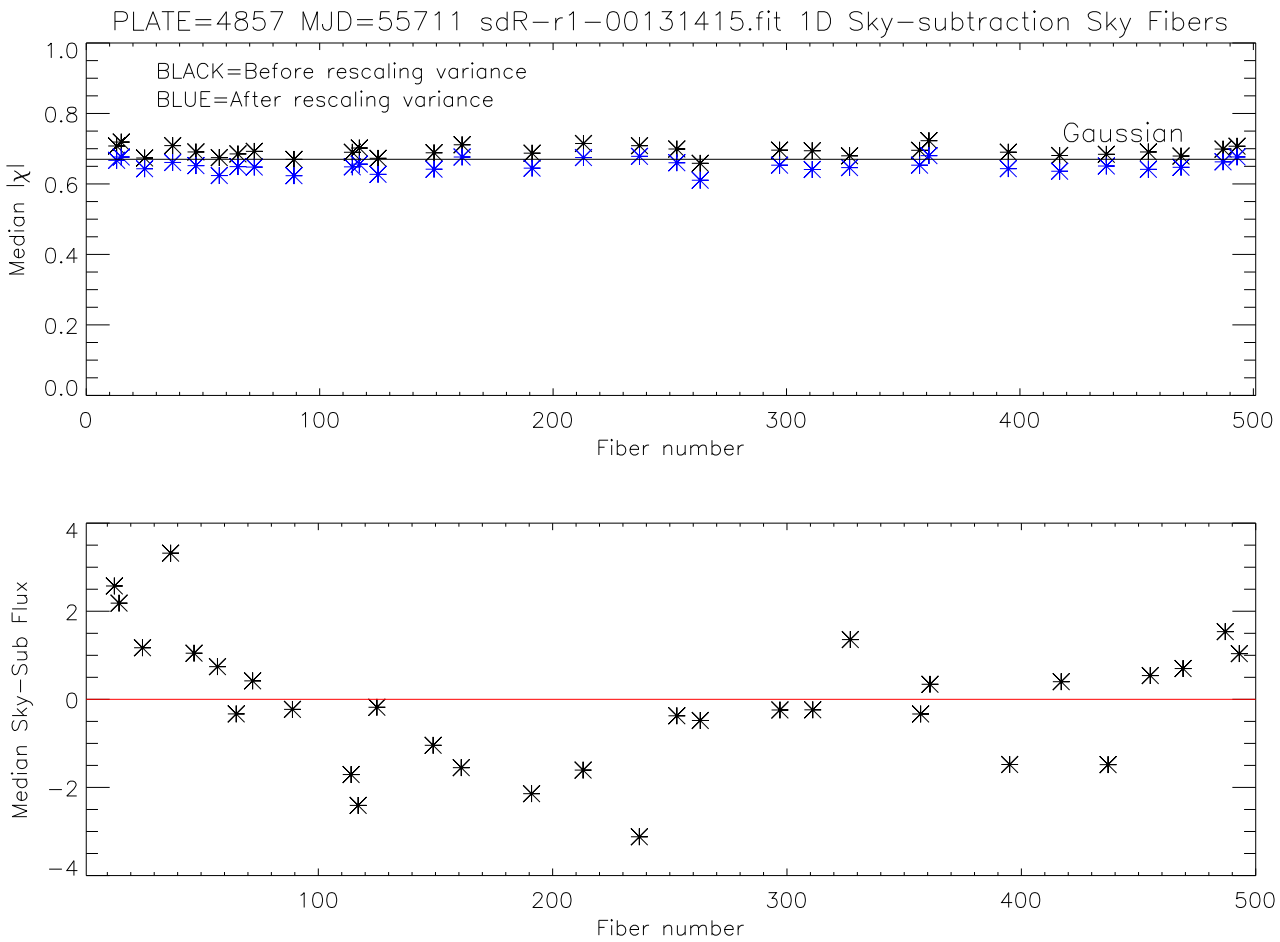

PLATE=4857 MJD=55711 Arcline Fit for sdR-r1-00131413.fit
Fiber Number
500
400
300
200
100
0
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A] + 300 * Deviation
Ncoeff = 6
Deviation [pix]
0.15
0.10
0.05
−0.00
−0.05
−0.10
−0.15
λ [A]
Wed Nov 18 18:09:18 2015

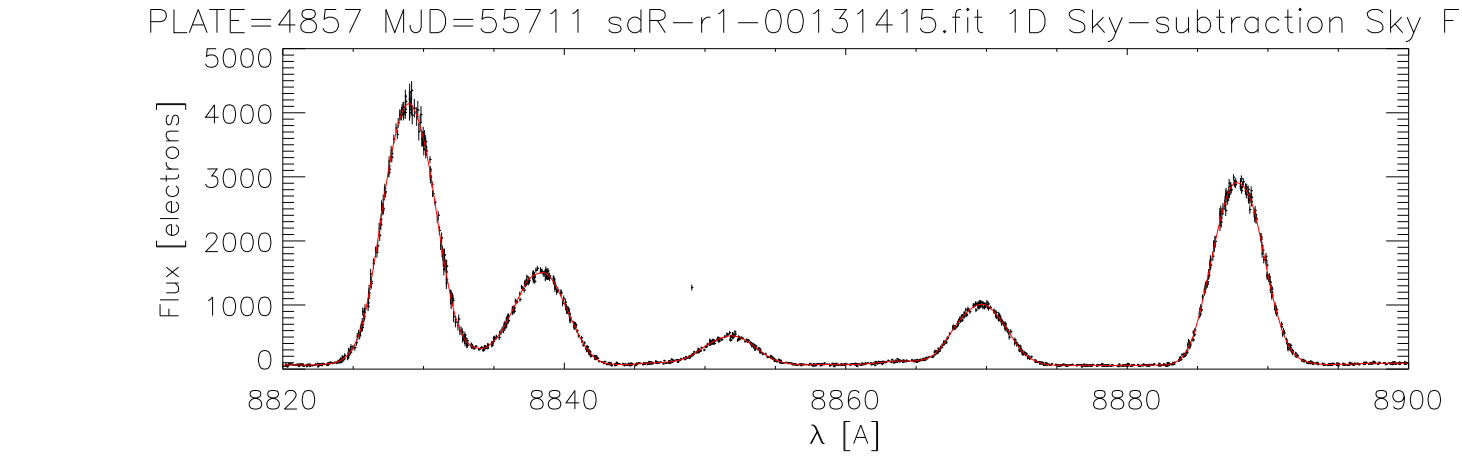

PLATE=4857 MJD=55711 Fiber−Flats for sdR−r1−00131414.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −1.374
Max value = 3.512
Fiber−Flat
1.5
1.0
0.5
0.0
6000
7000
8000
9000
10000
λ [A]
Wed Nov 18 18:09:30 2015

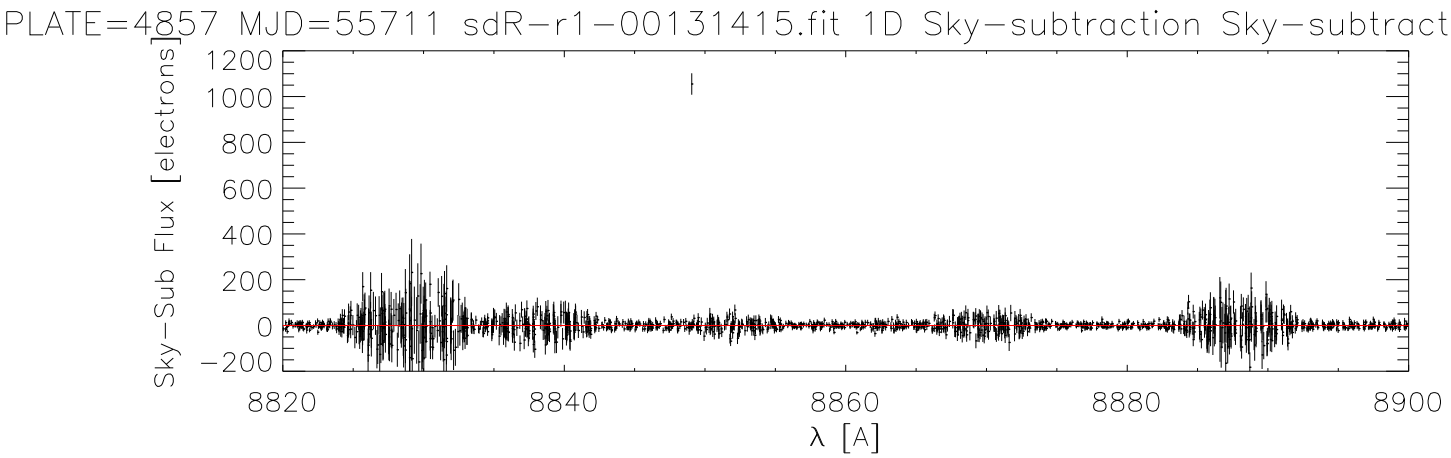

PLATE=4857 MJD=55711 Extraction chi$^2$ for sdR−r1−00131415.fit
BLACK = Final chisq extraction
$\chi^2$
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=4857 MJD=55711 Sky Line Deviations for sdR-r1-00131415.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

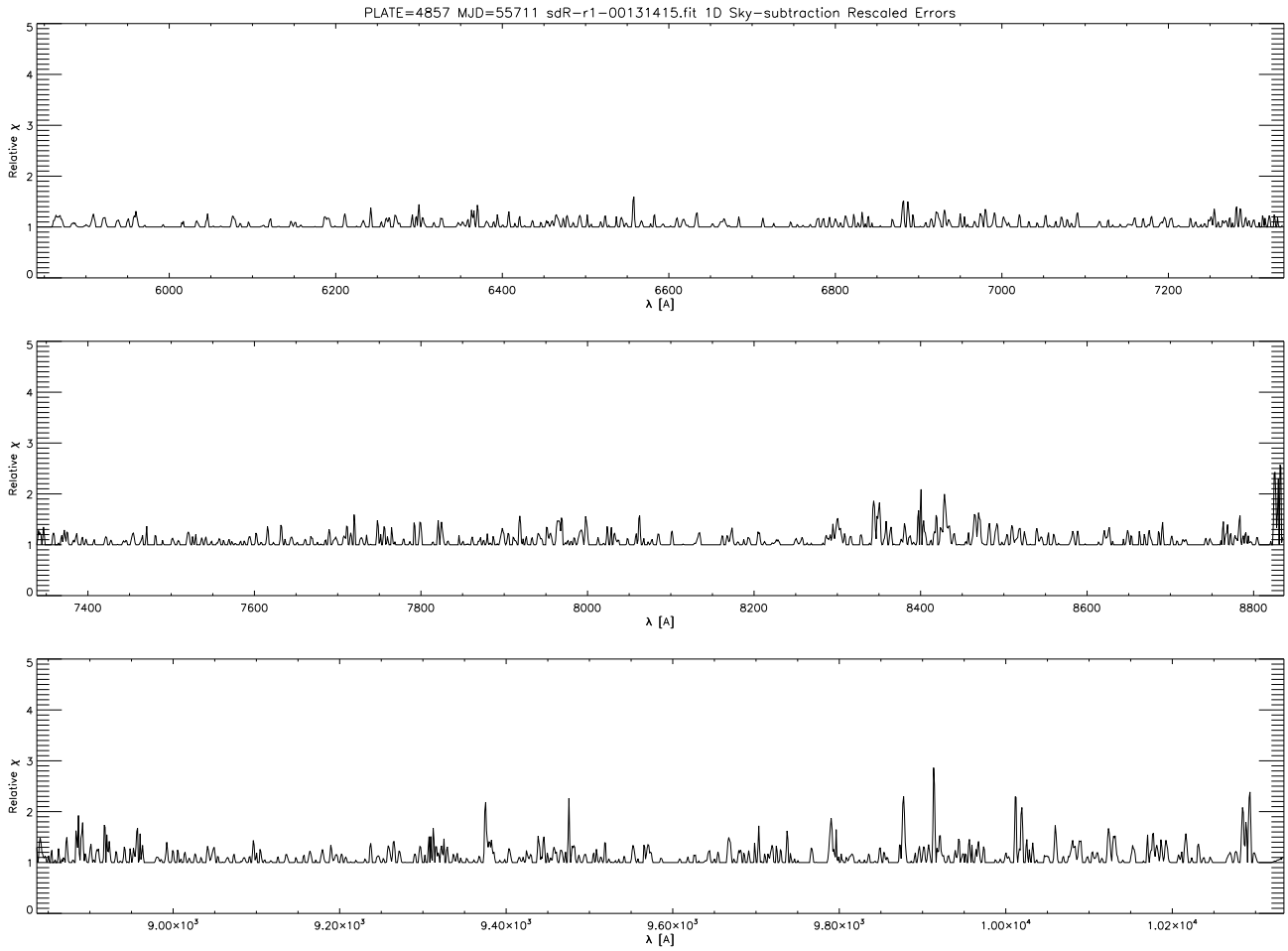

PLATE=4857 MJD=55711 Smooth superflat for sdR-r1-00131415.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

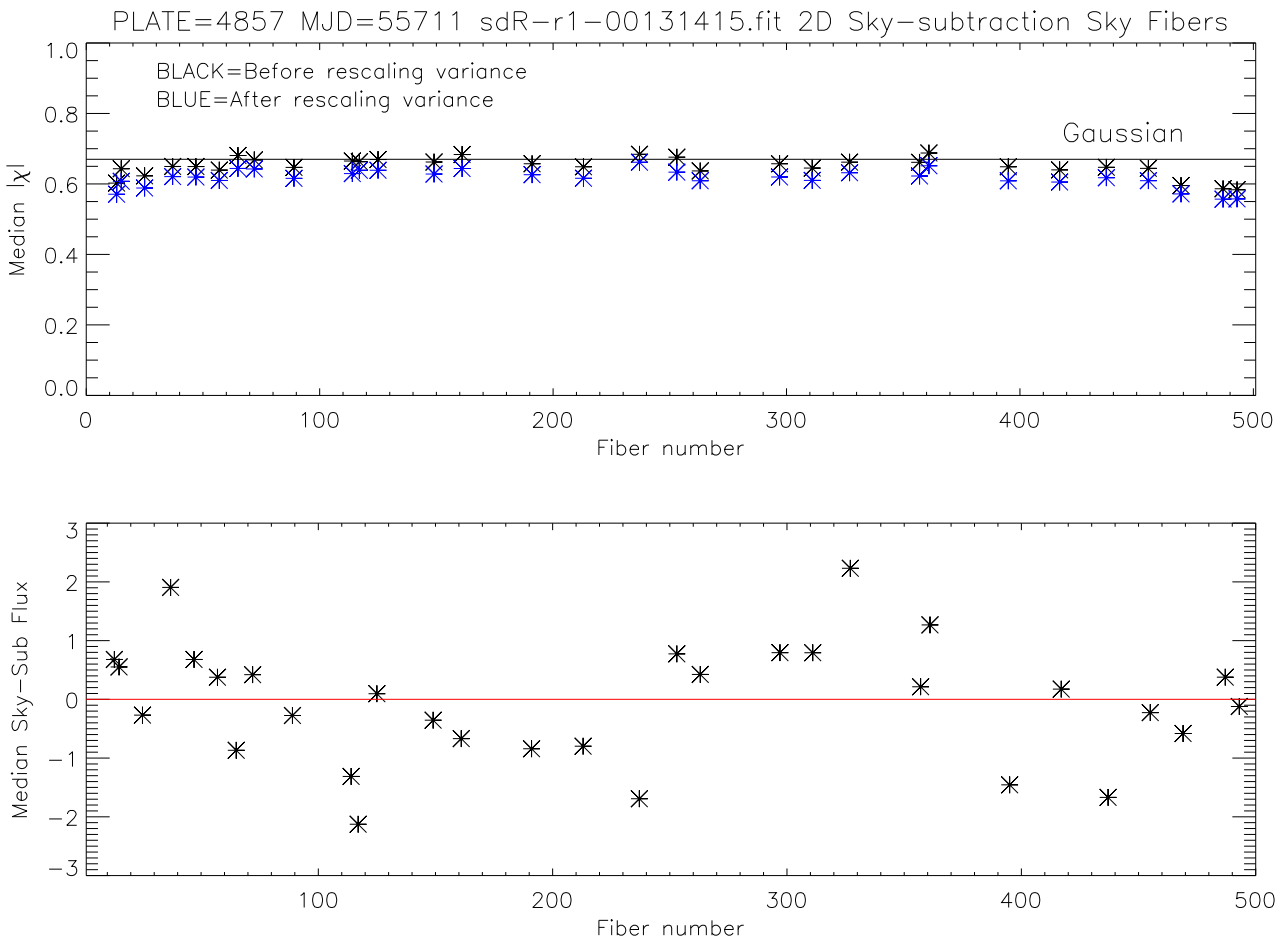

PLATE=4857 MJD=55711 sdR-r1-00131415.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

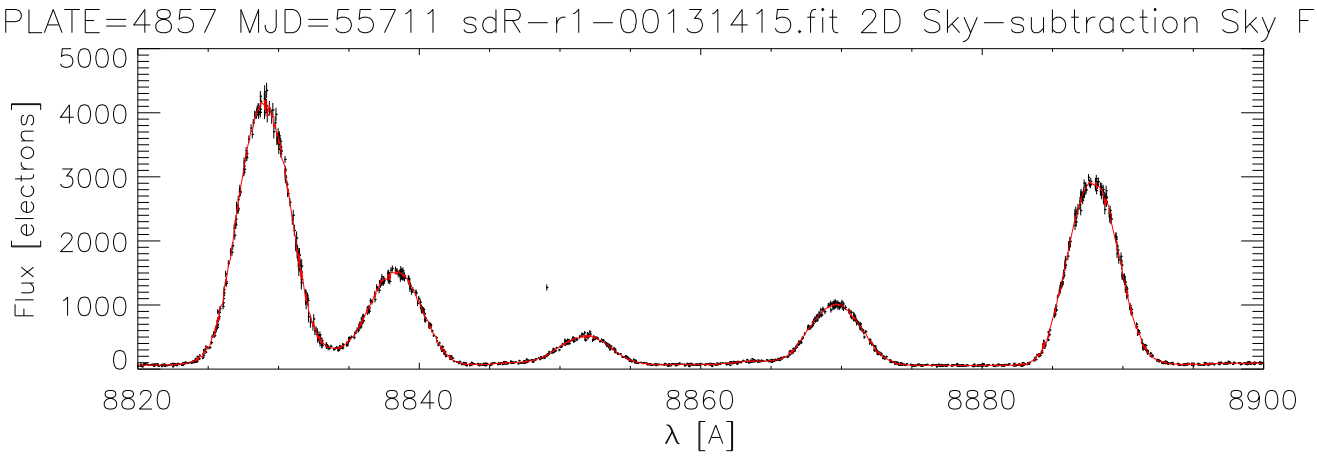

PLATE=4857 MJD=55711 sdR-r1-00131415.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

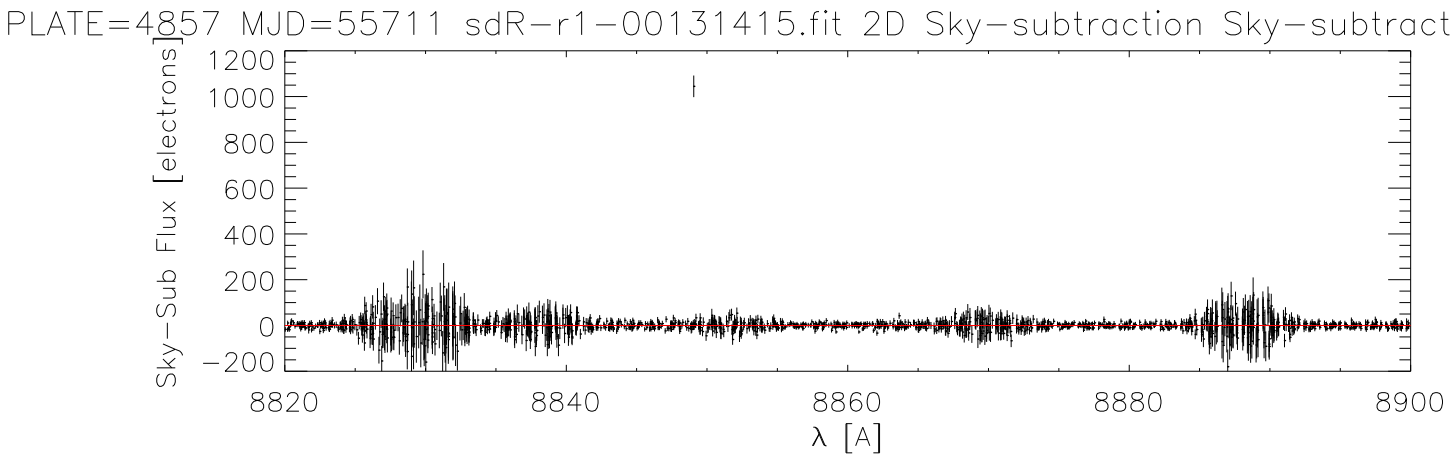

PLATE=4857 MJD=55711 sdR-r1-00131415.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1200
1000
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 31

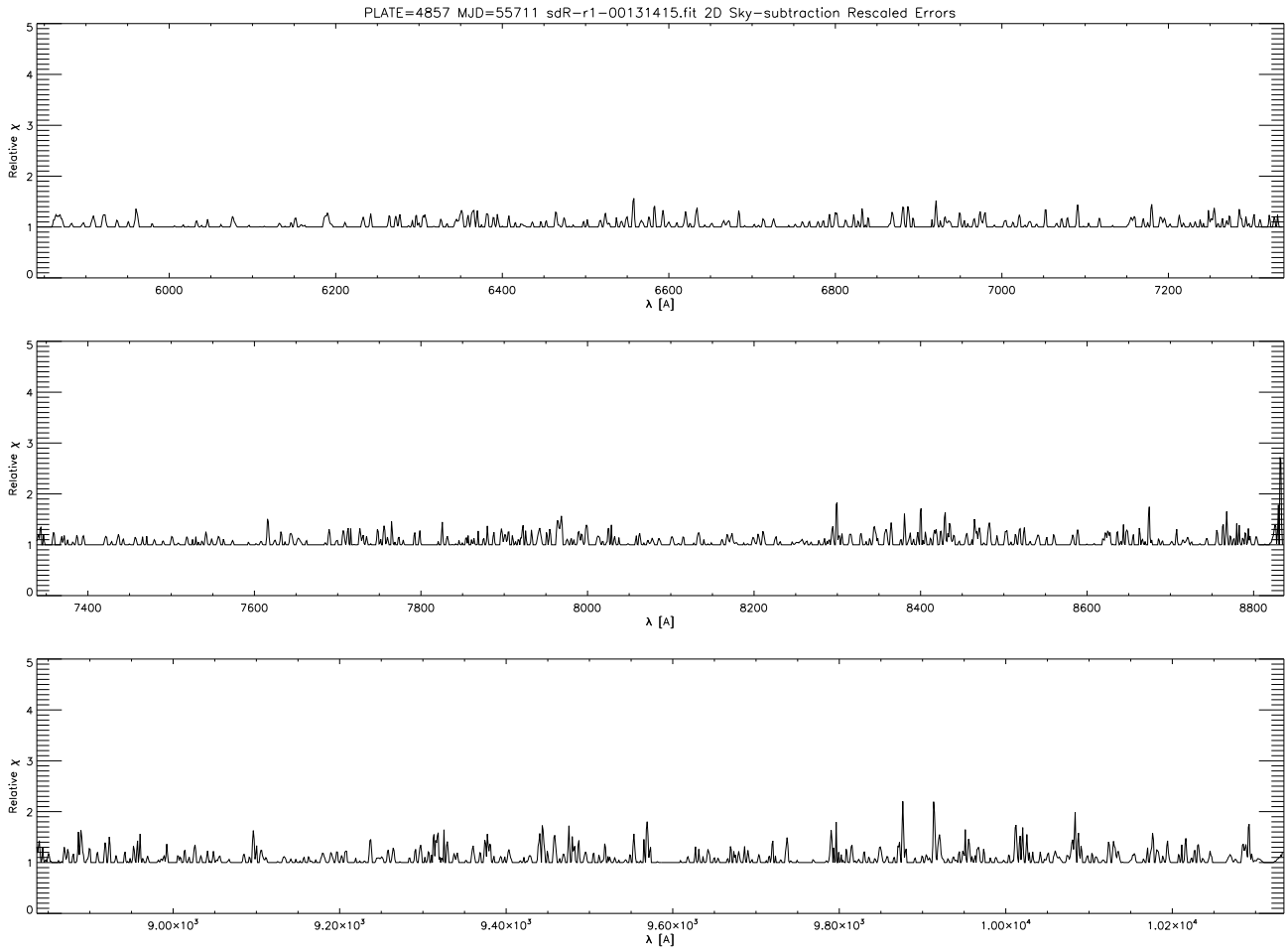


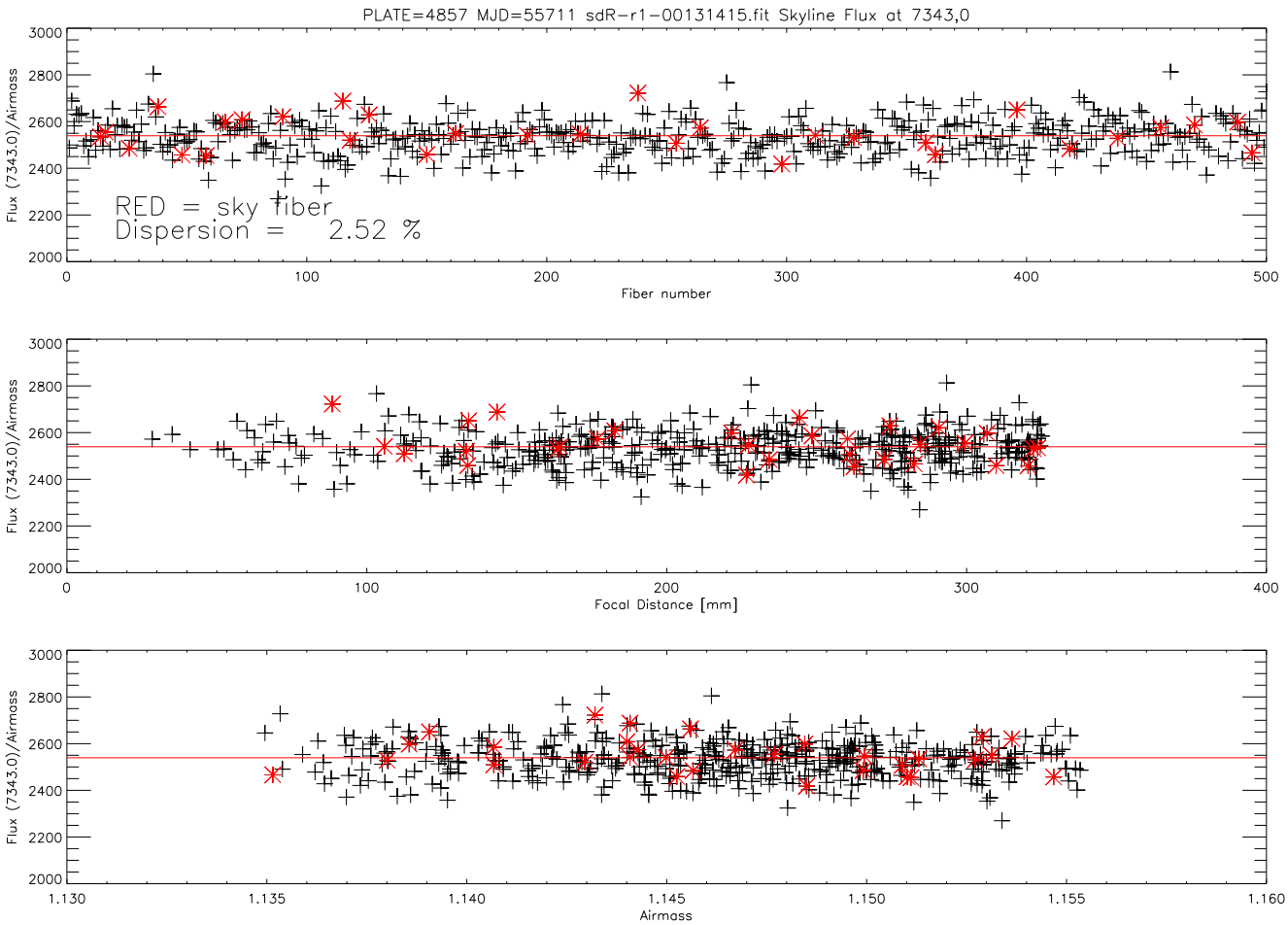

PLATE=4857 MJD=55711 sdR-r1-00131415.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

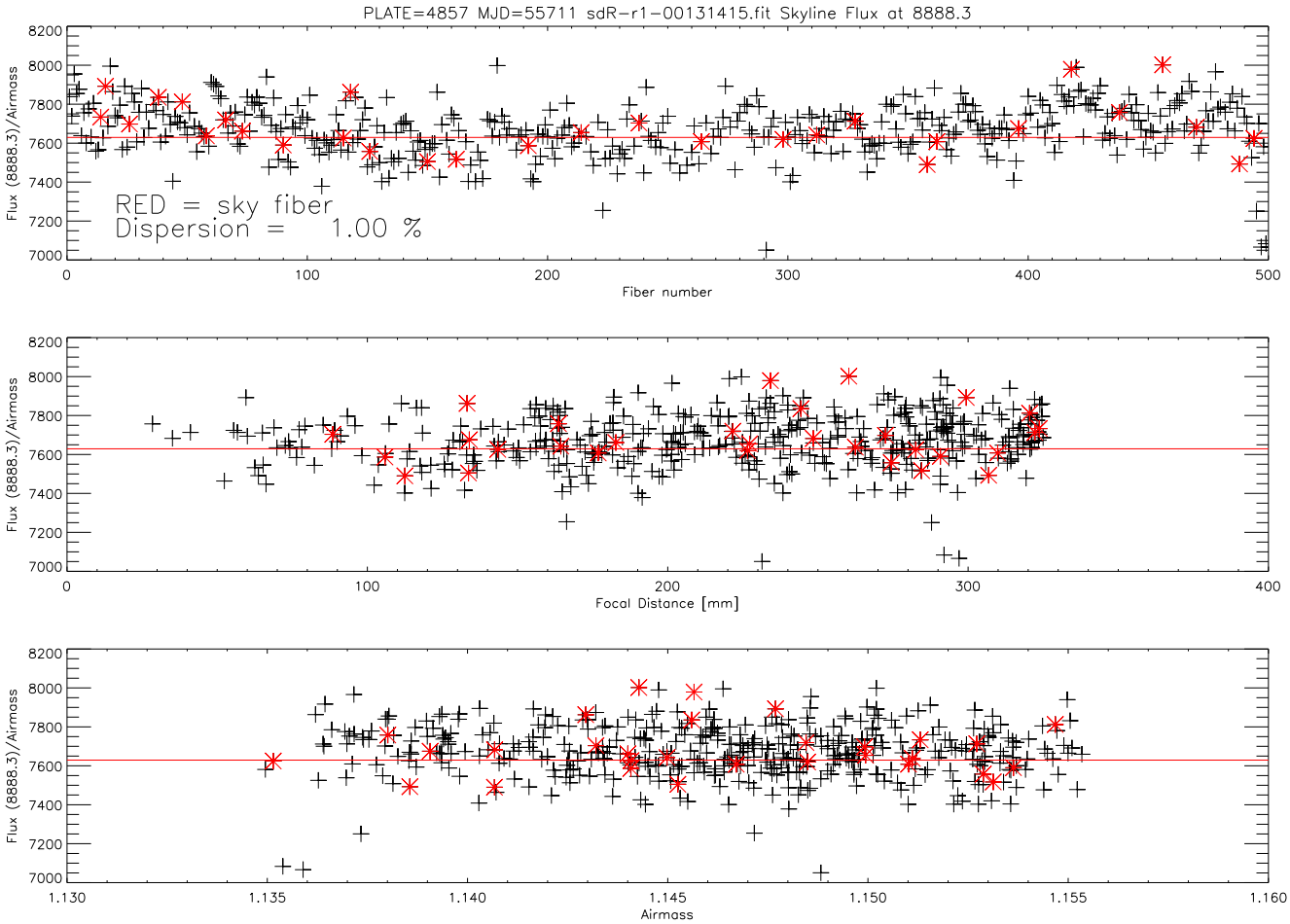

PLATE=4857 MJD=55711 sdR-r1-00131415.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

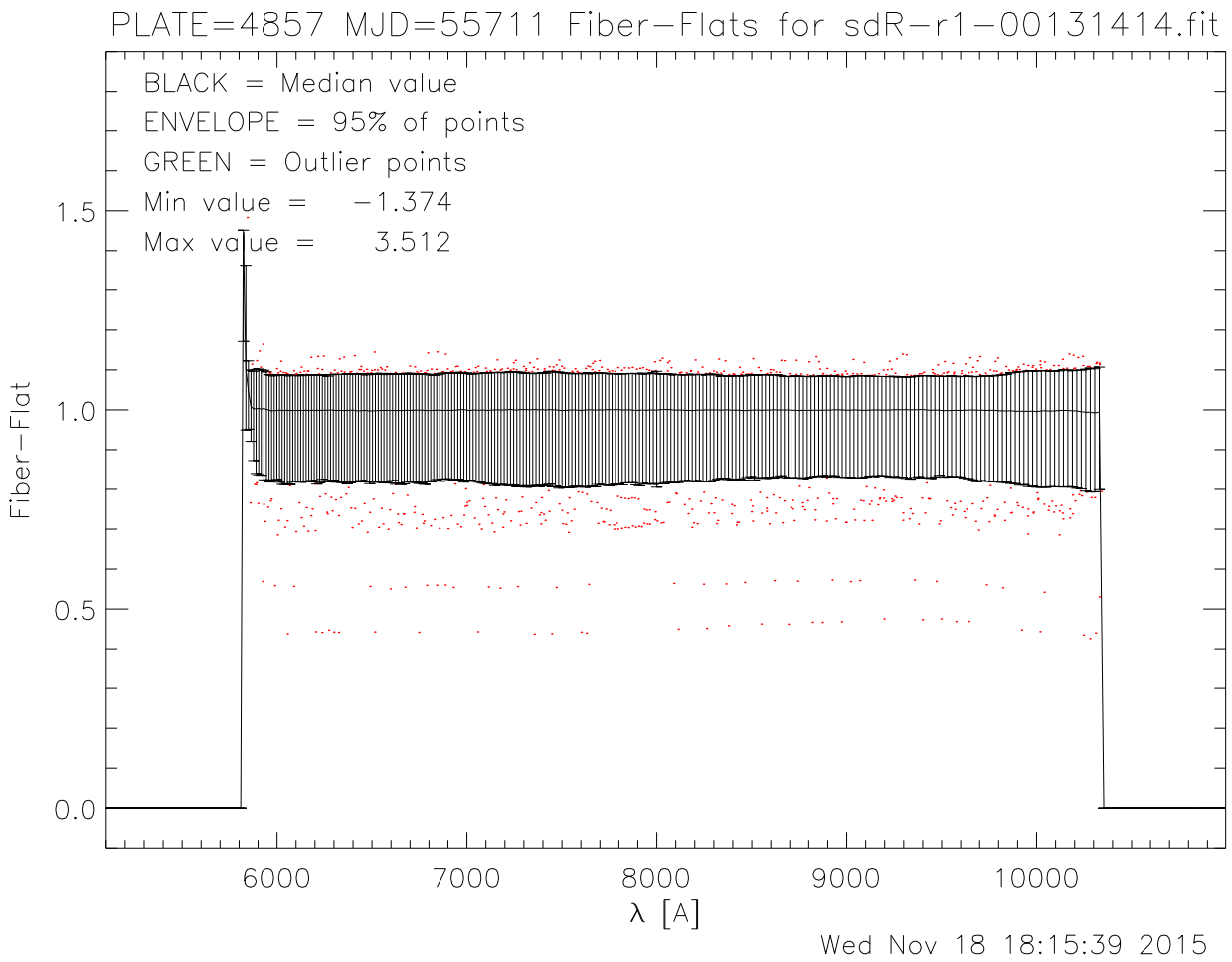

PLATE=4857 MJD=55711 sdR-r1-00131415.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1200
1000
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

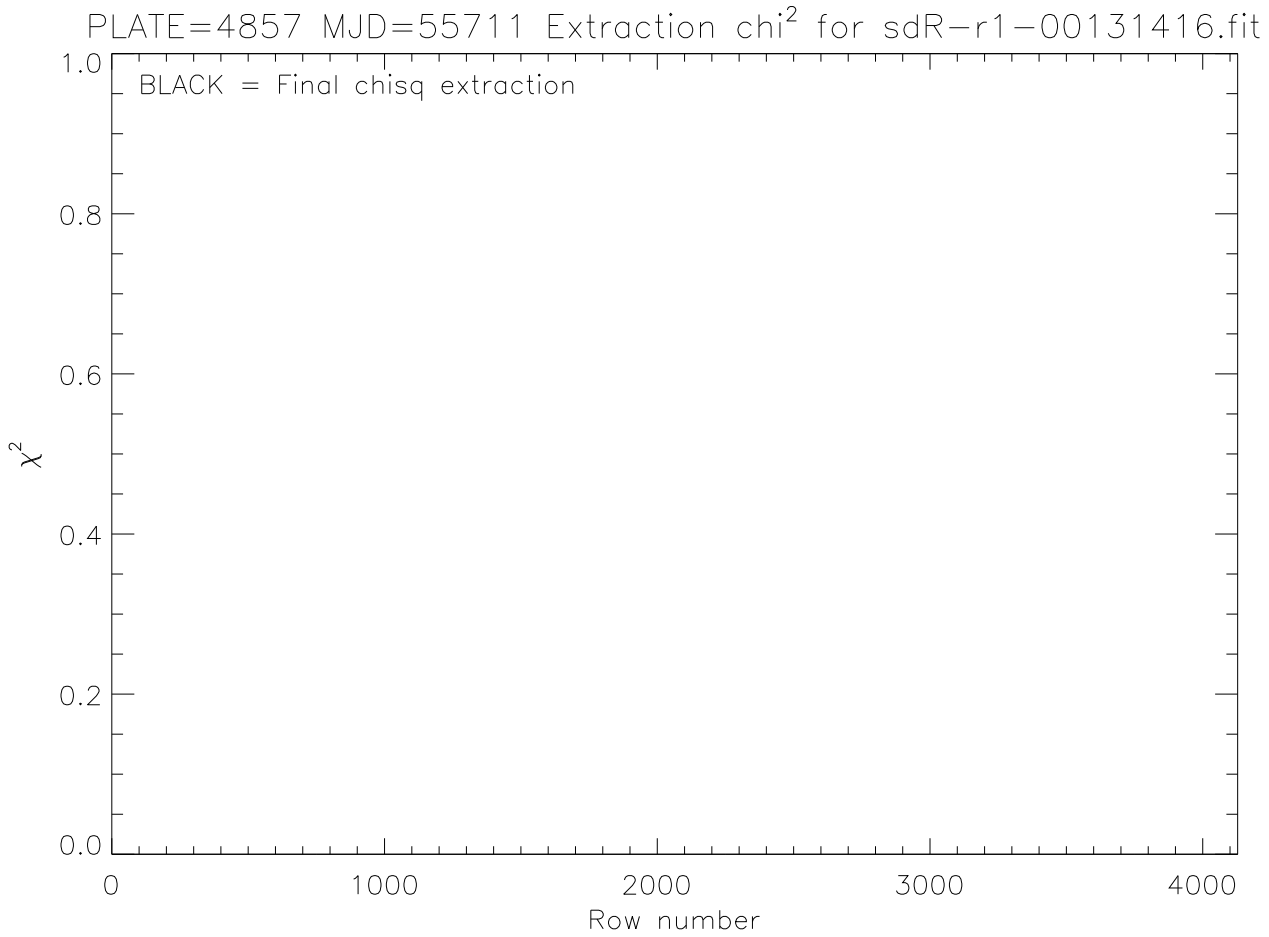
Number of sky fibers = 31

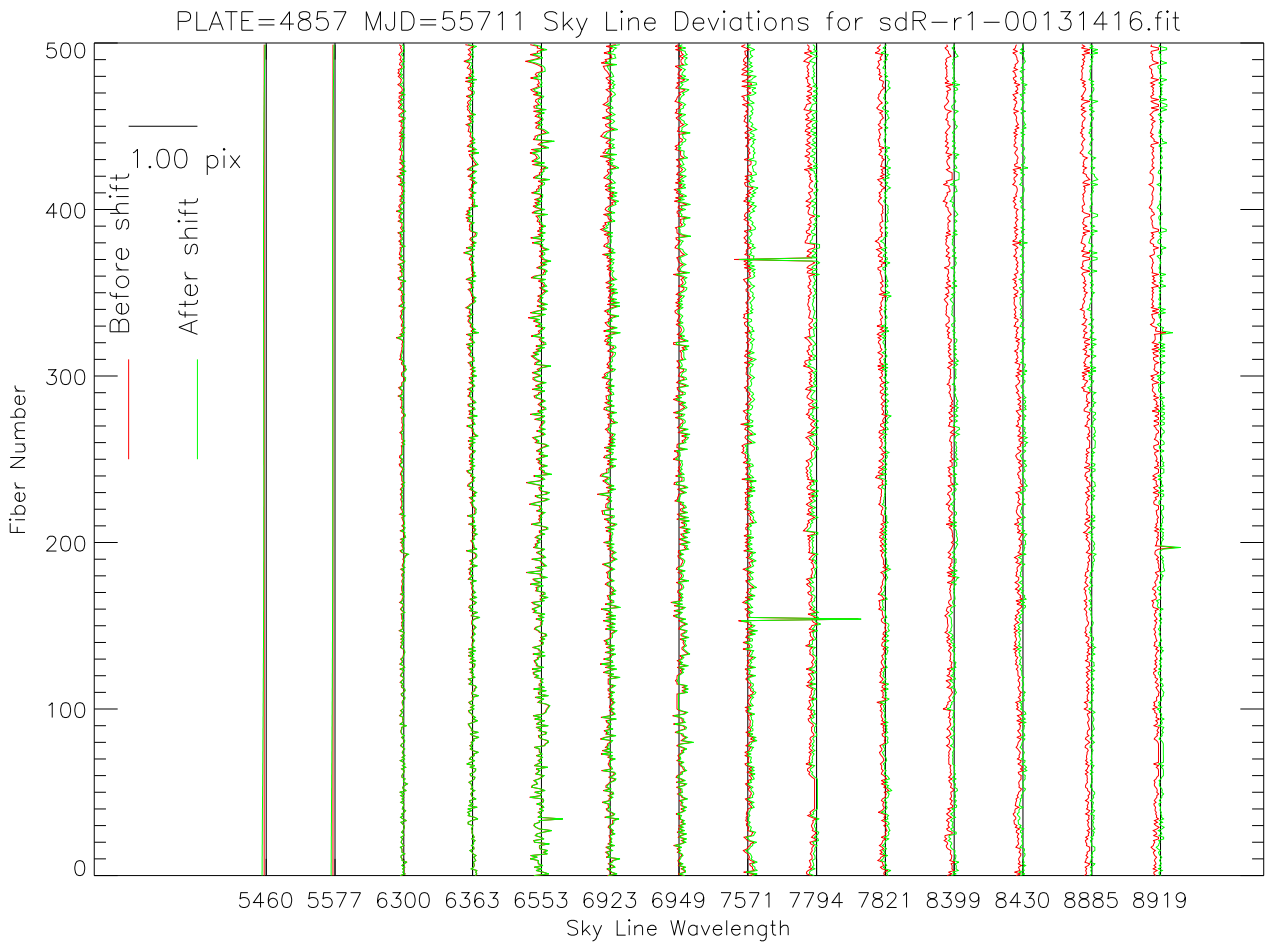


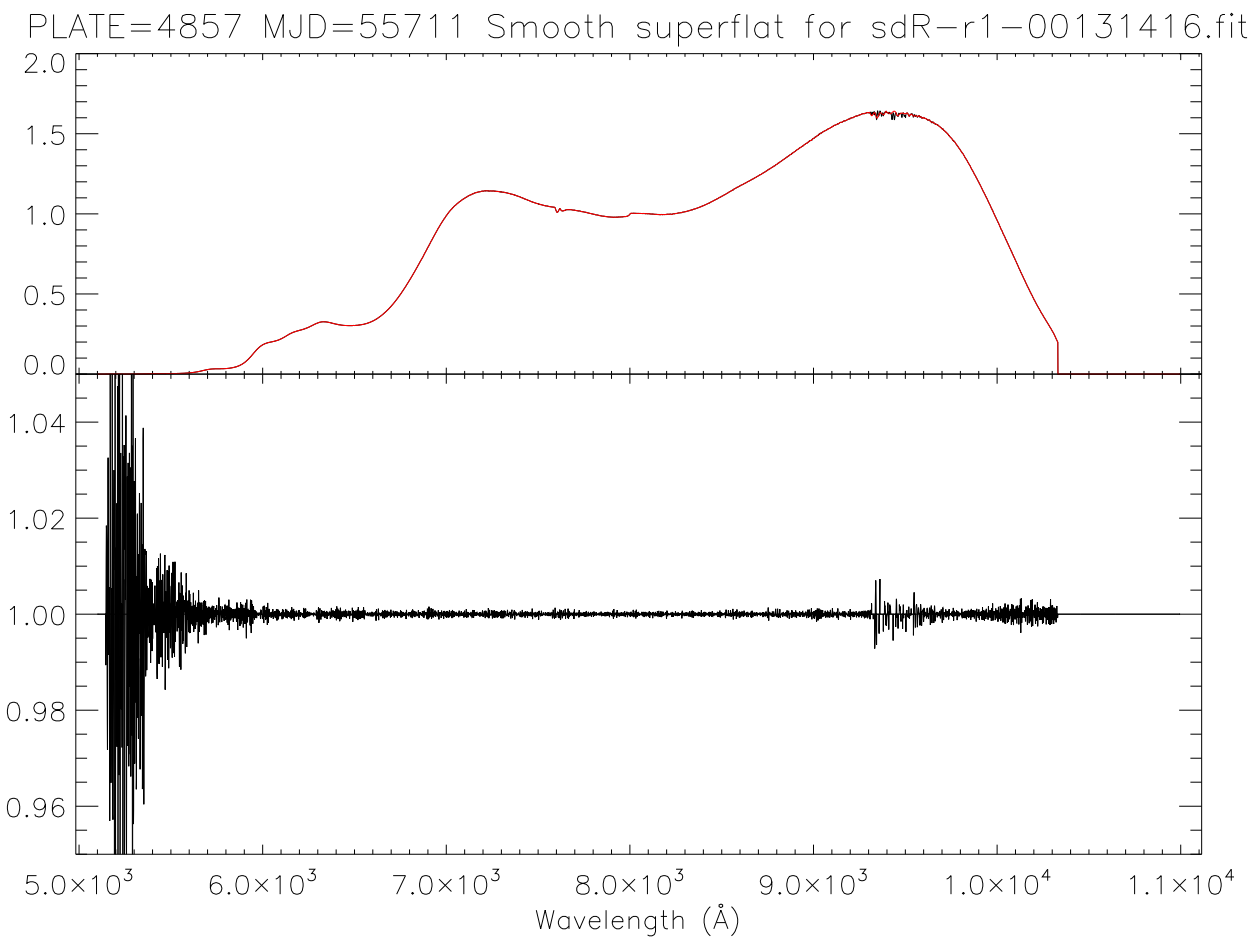

PLATE=4857 MJD=55711 sdR-r1-00131415.fit Skyline Flux at 7343.0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.52 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

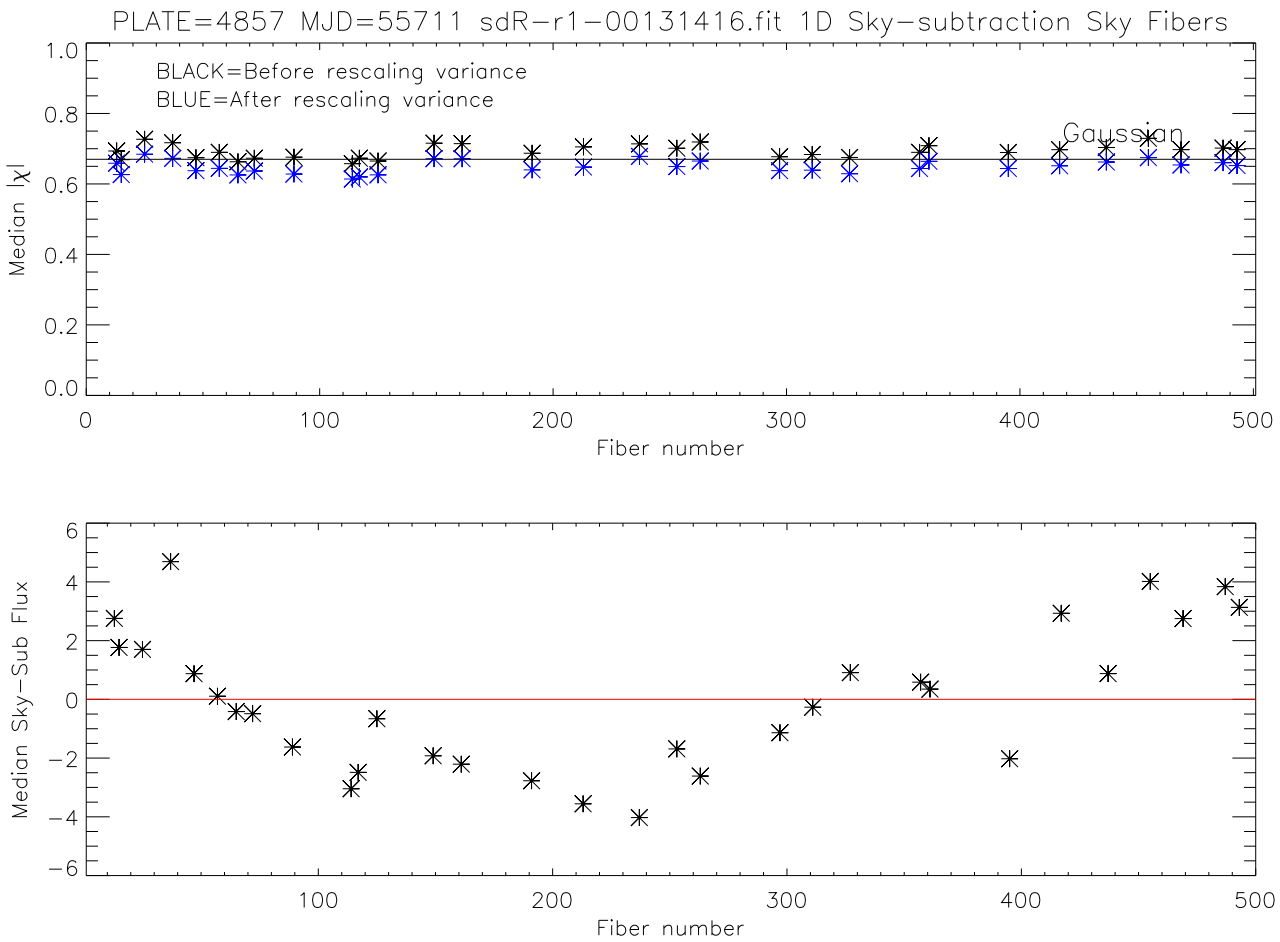

PLATE=4857 MJD=55711 sdR-r1-00131415.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.00 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

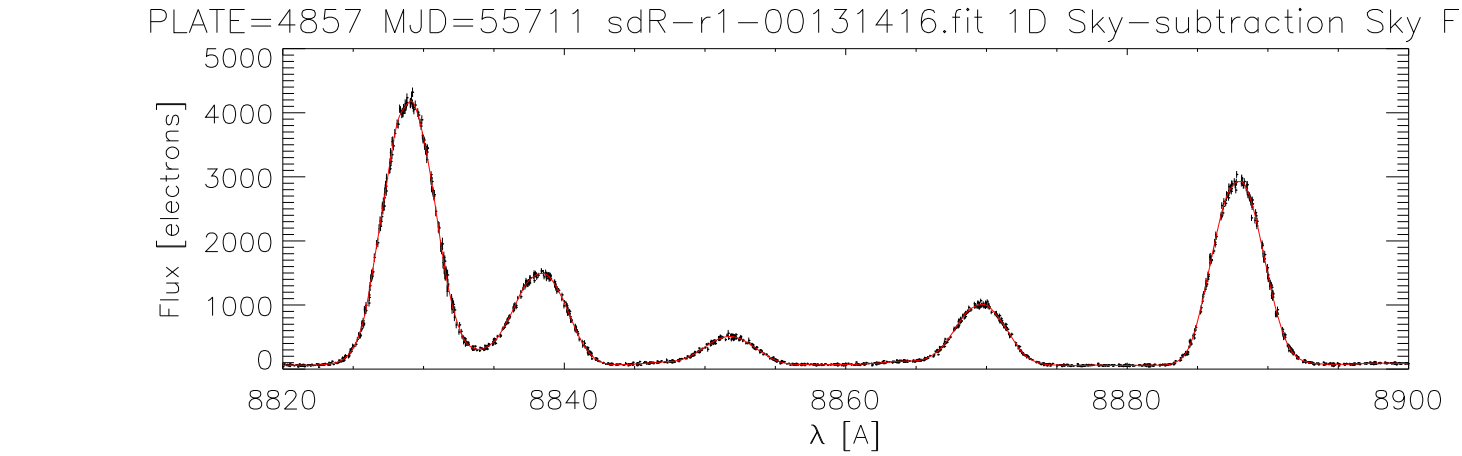

PLATE=4857 MJD=55711 Fiber−Flats for sdR−r1−00131414.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −1.374
Max value = 3.512
Fiber−Flat
1.5
1.0
0.5
0.0
6000
7000
8000
9000
10000
λ [A]
Wed Nov 18 18:15:39 2015

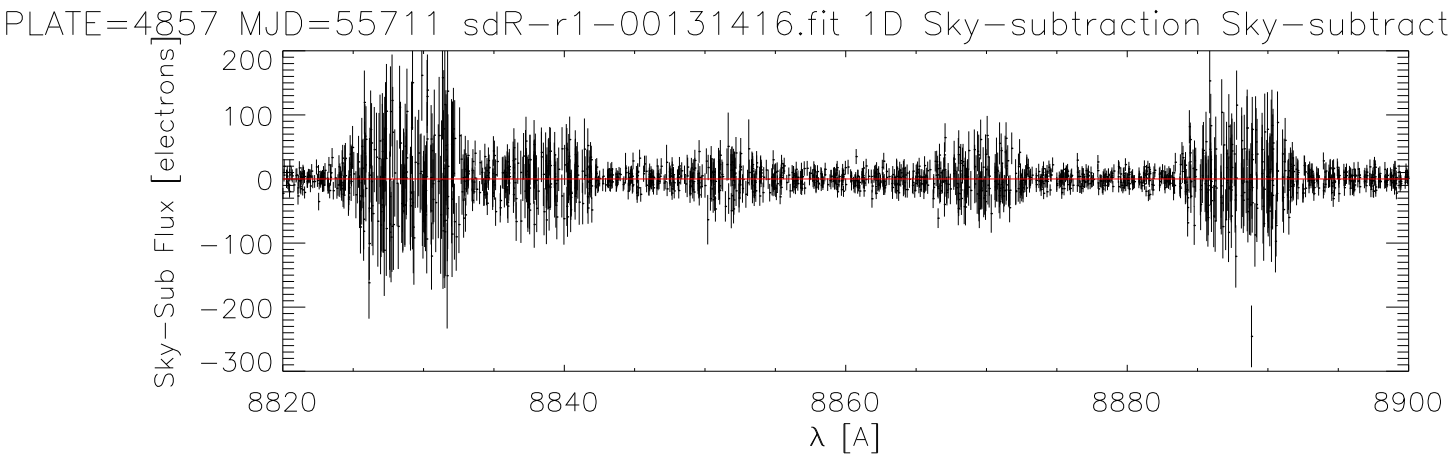

PLATE=4857 MJD=55711 Extraction chi$^2$ for sdR−r1−00131416.fit
BLACK = Final chisq extraction
$\chi^2$
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=4857 MJD=55711 Sky Line Deviations for sdR-r1-00131416.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

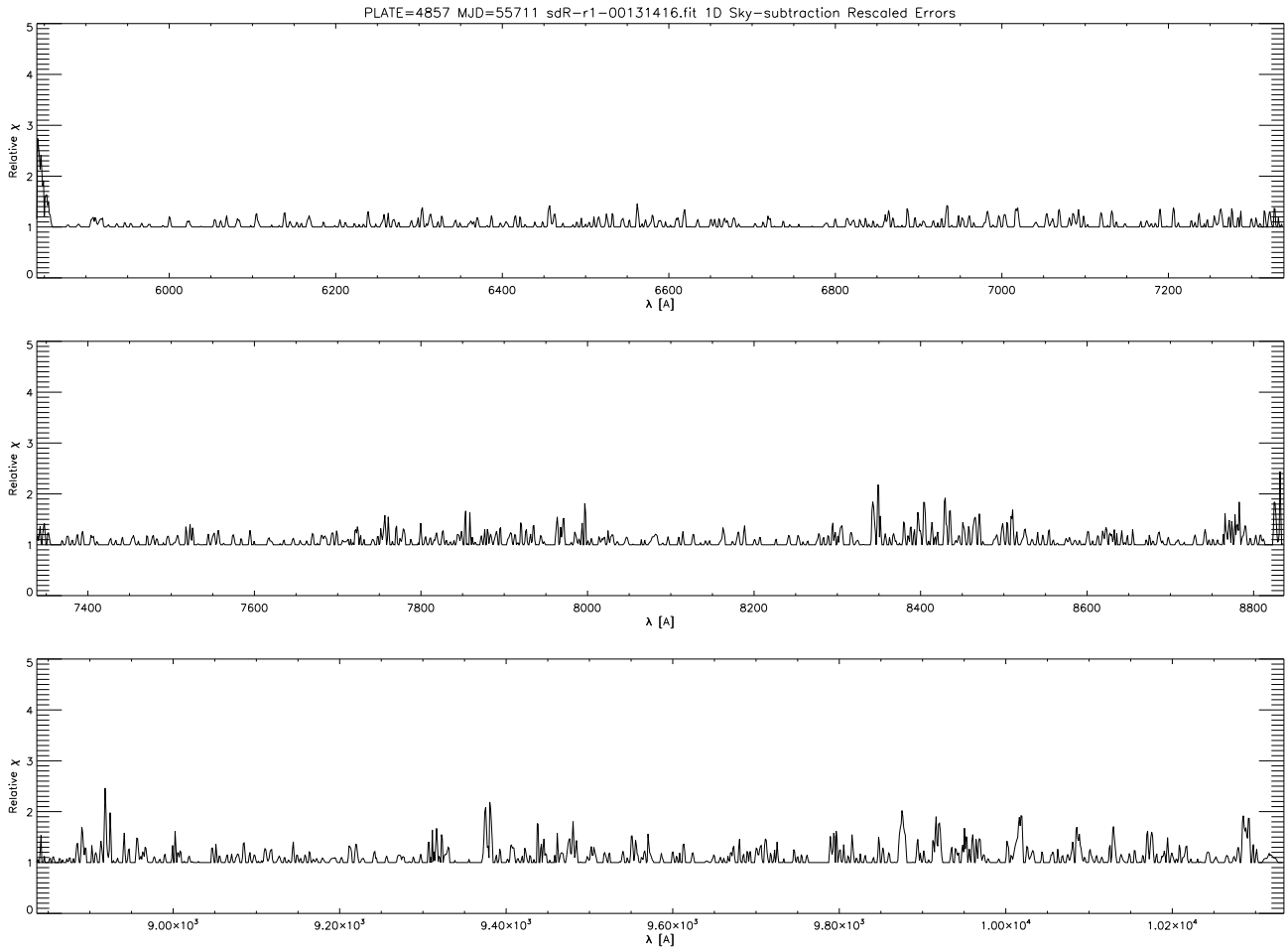

PLATE=4857 MJD=55711 Smooth superflat for sdR-r1-00131416.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

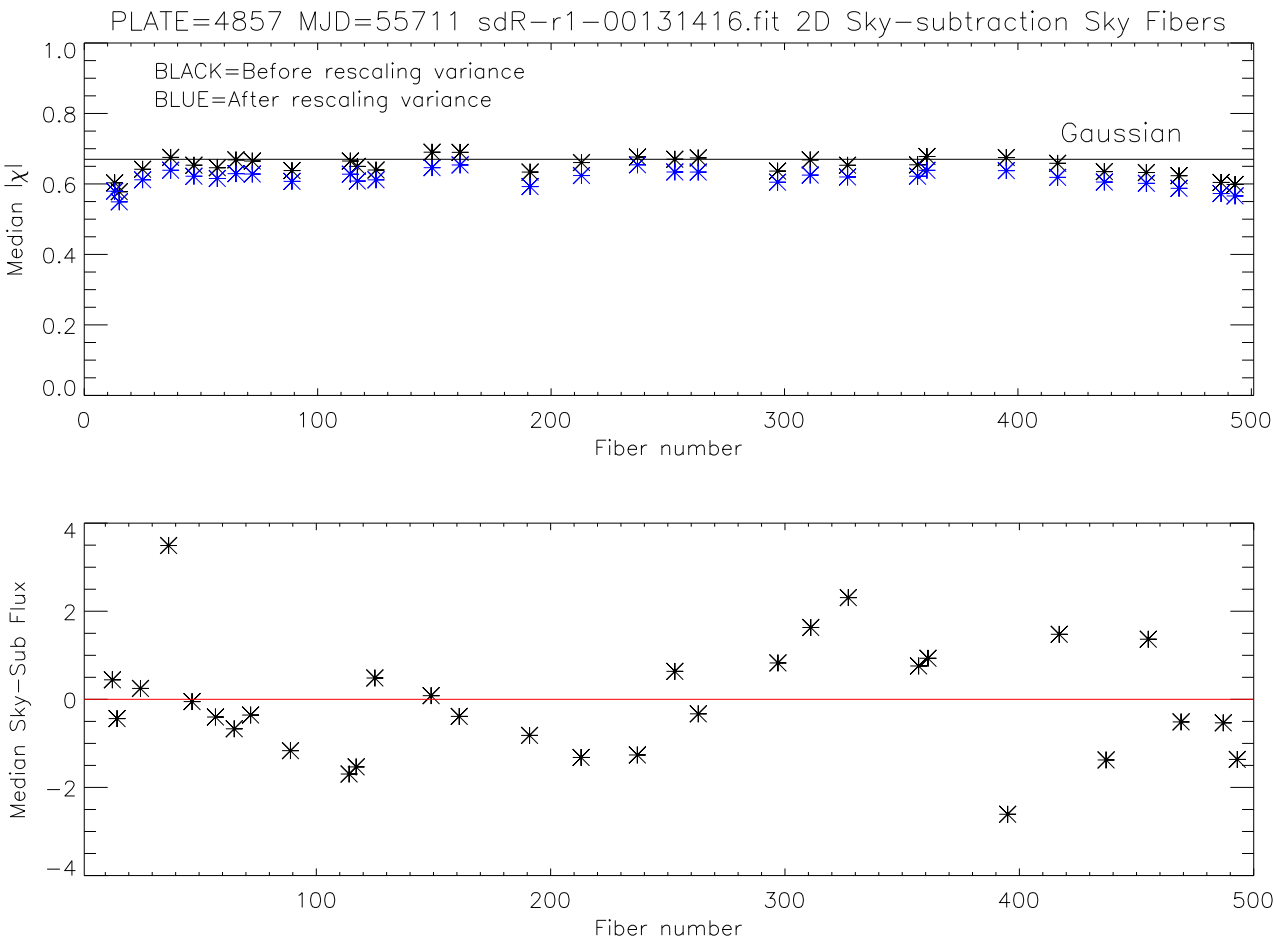

PLATE=4857 MJD=55711 sdR-r1-00131416.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

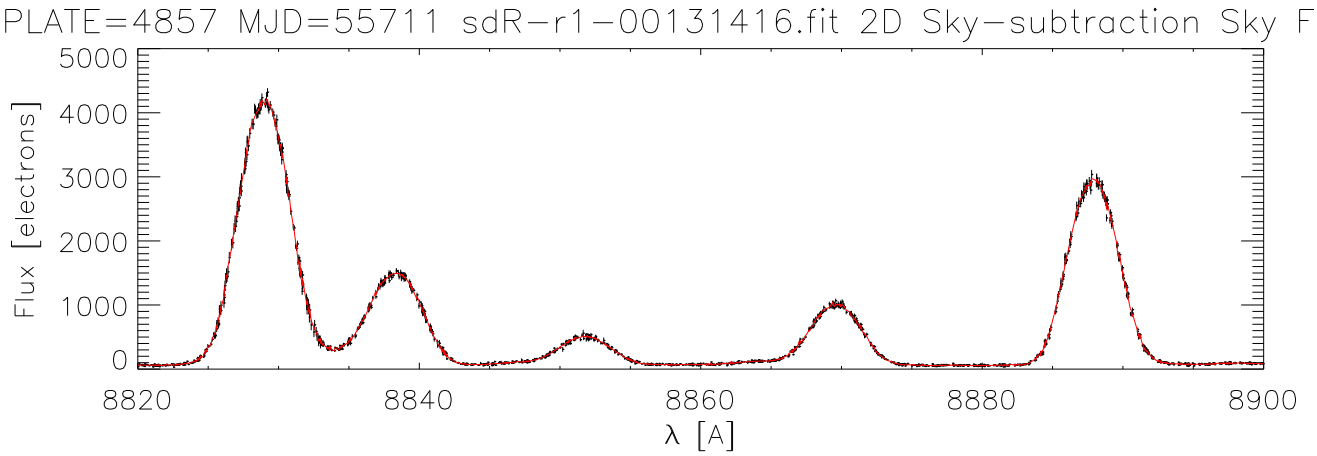

PLATE=4857 MJD=55711 sdR-r1-00131416.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

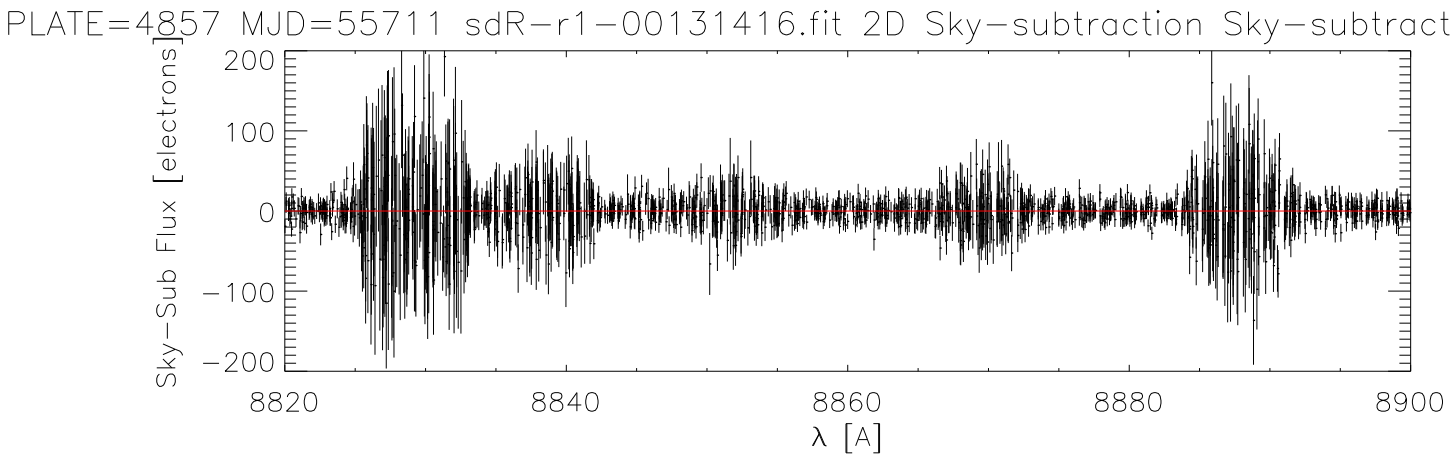

PLATE=4857 MJD=55711 sdR-r1-00131416.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 31

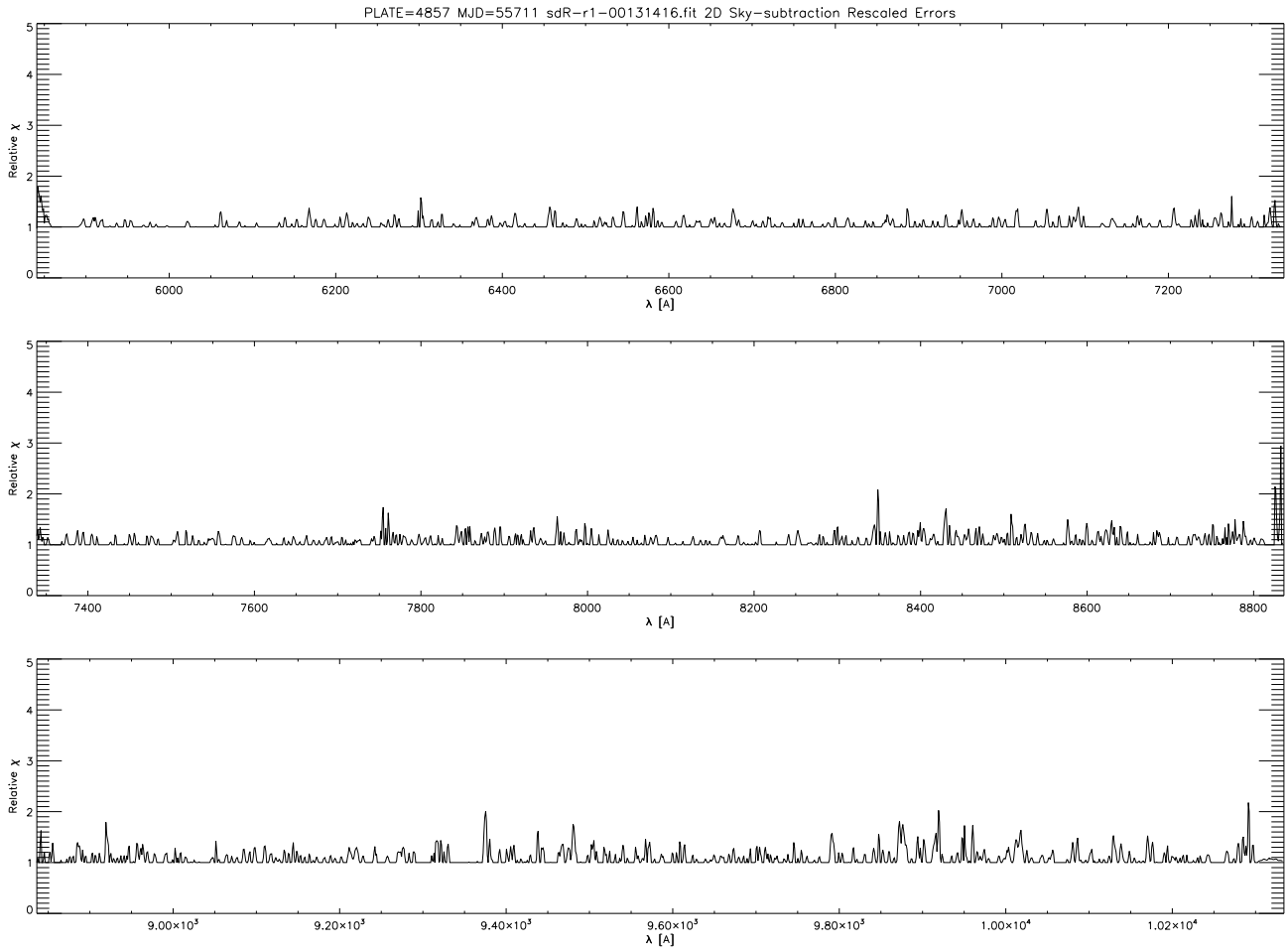


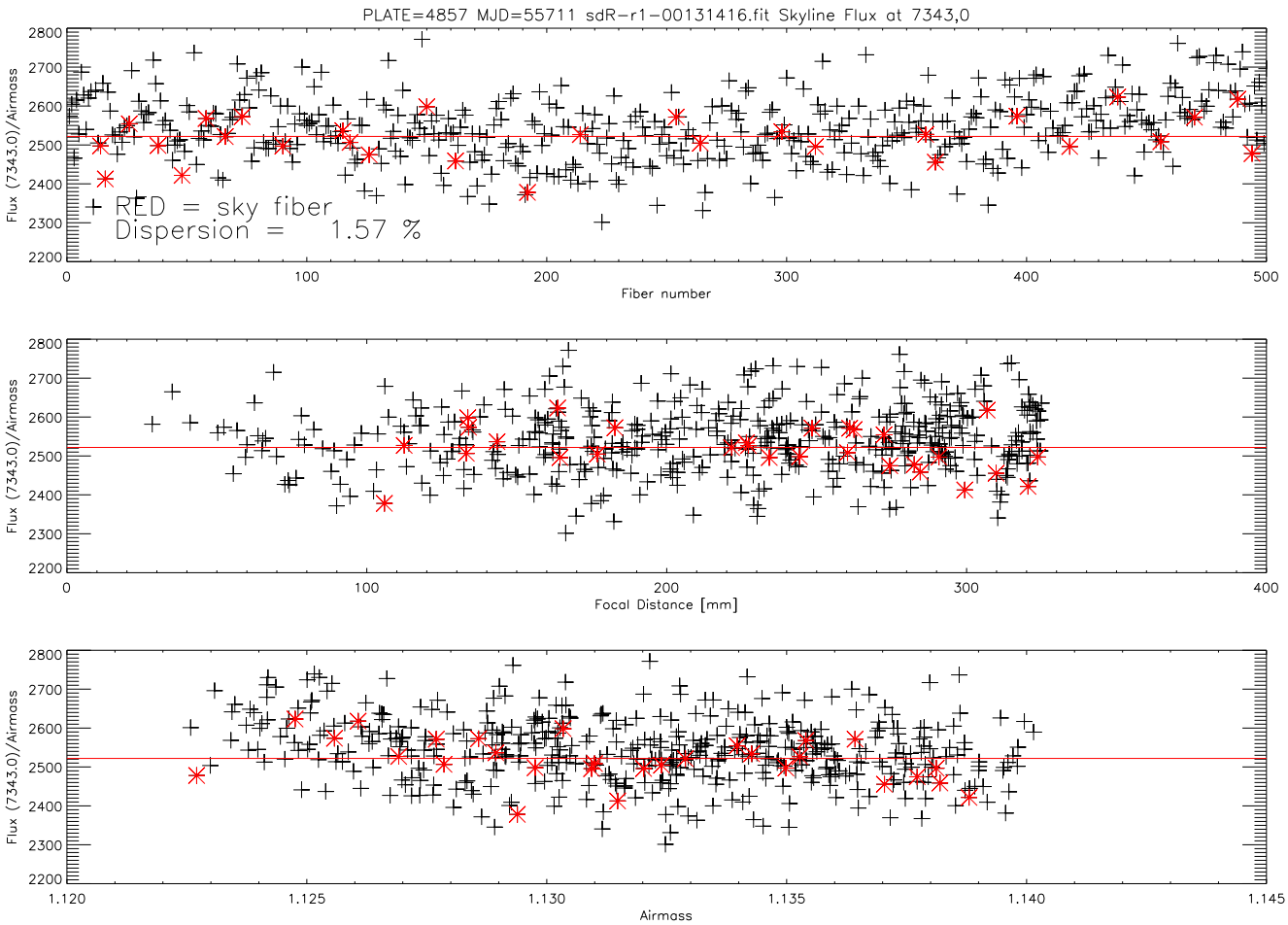

PLATE=4857 MJD=55711 sdR-r1-00131416.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

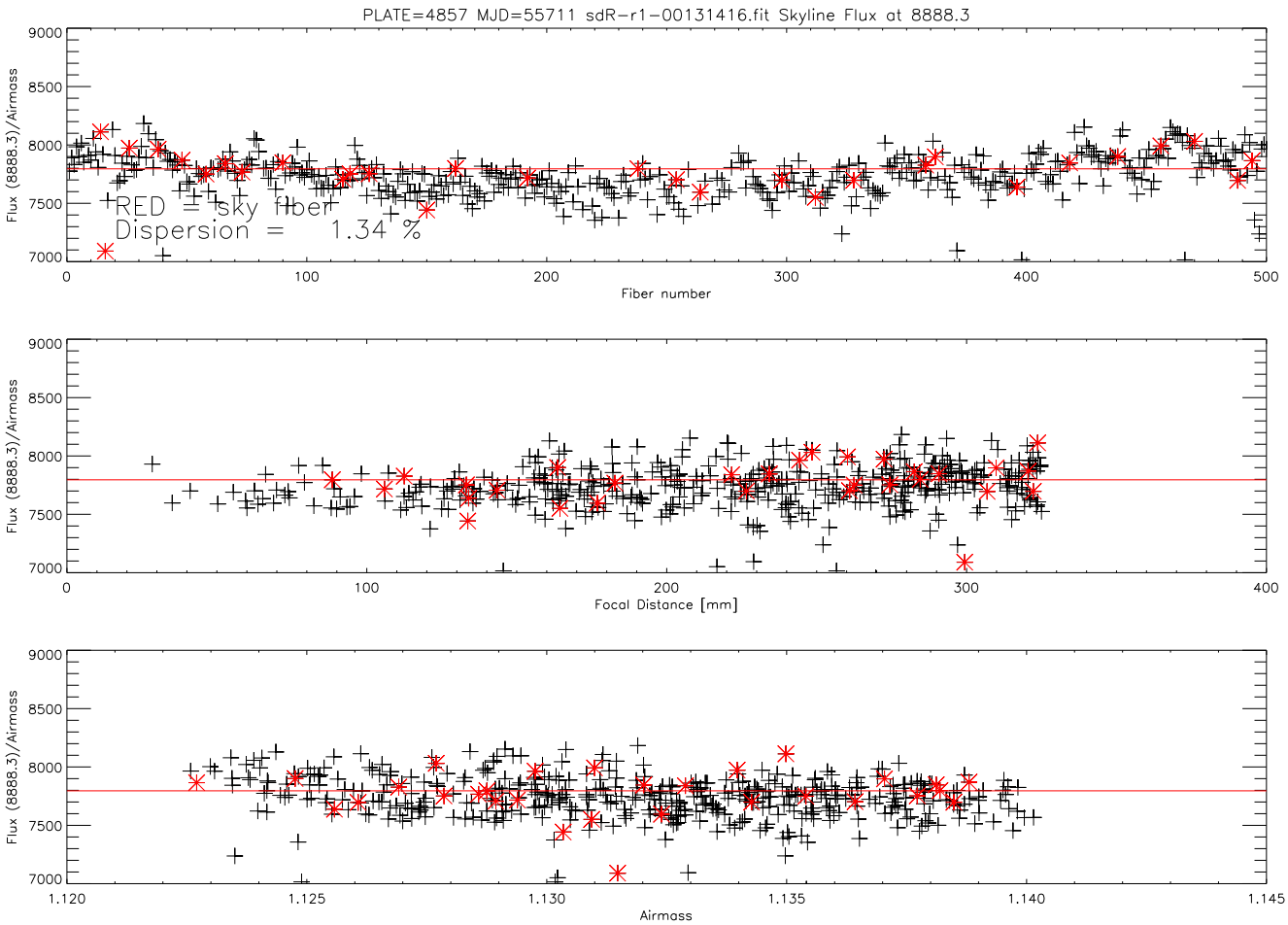

PLATE=4857 MJD=55711 sdR-r1-00131416.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

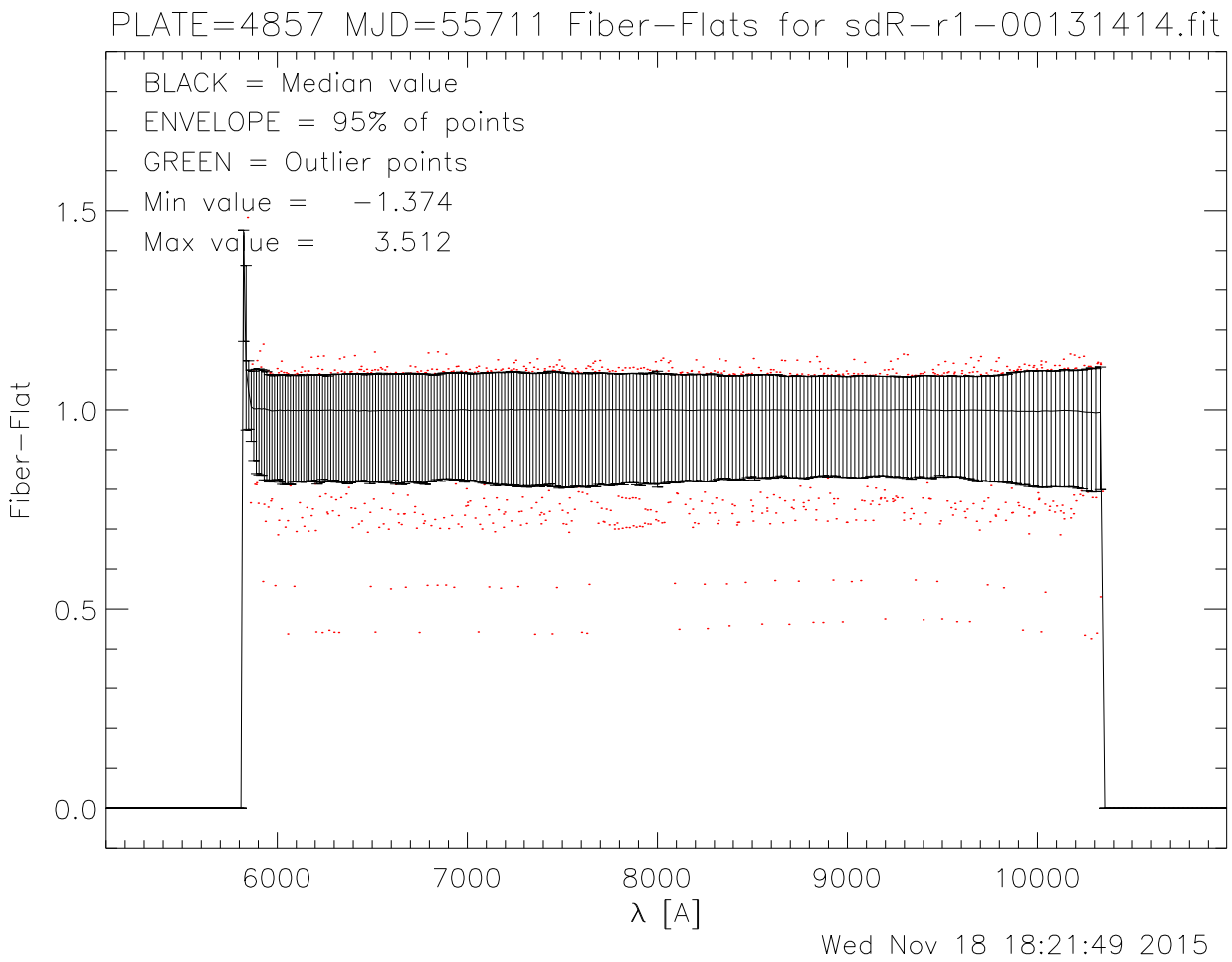

PLATE=4857 MJD=55711 sdR-r1-00131416.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

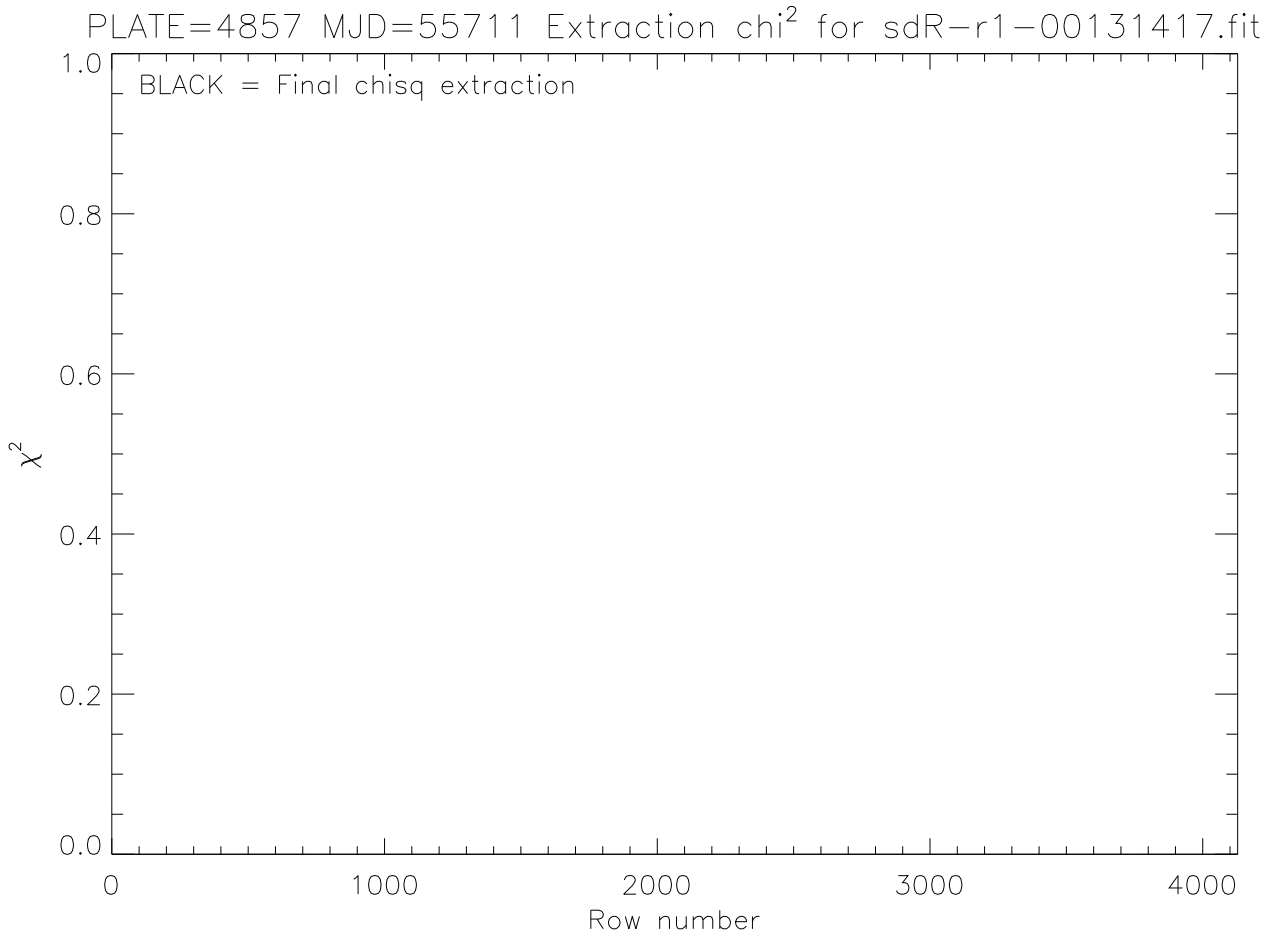
Number of sky fibers = 31

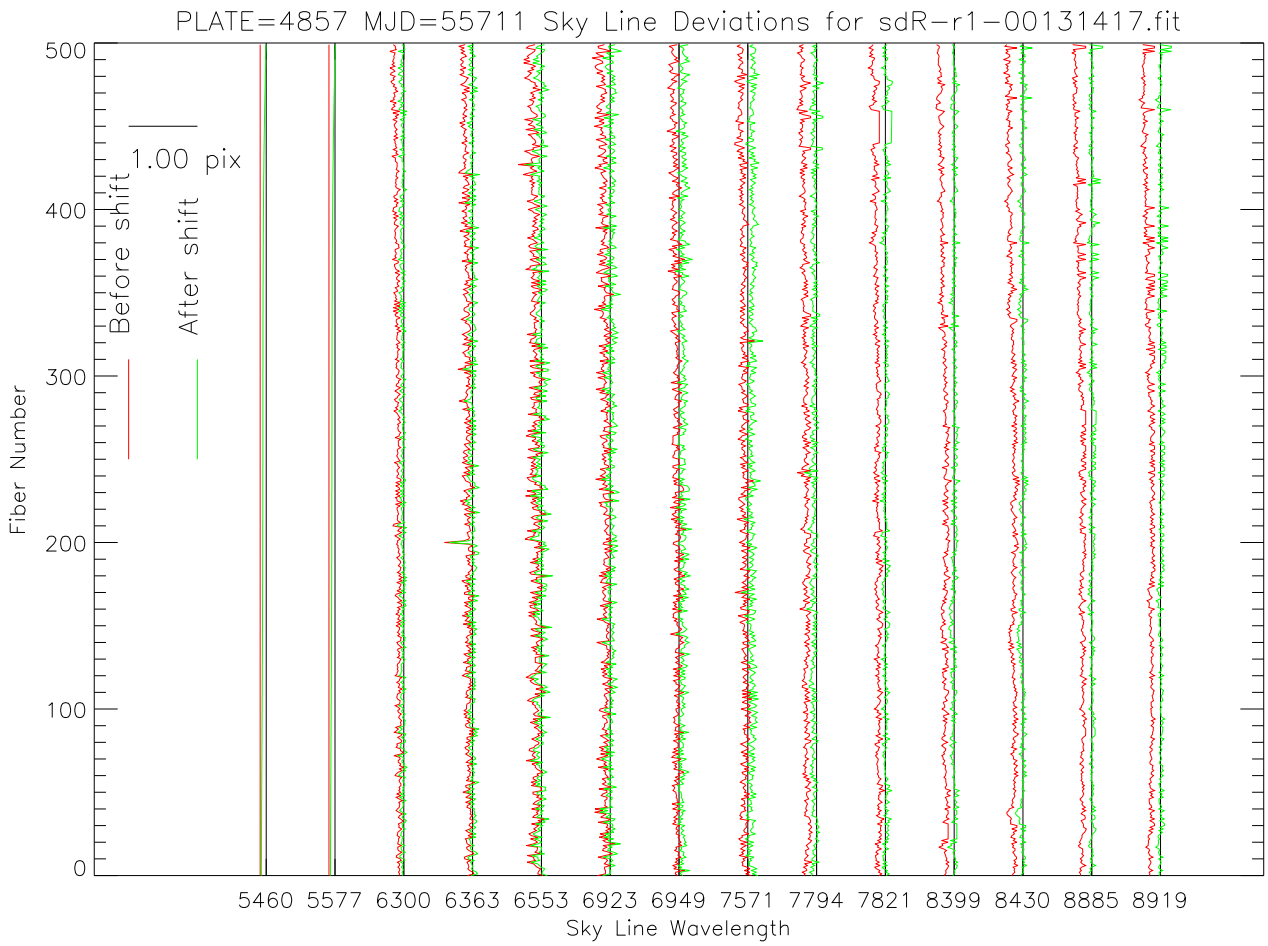


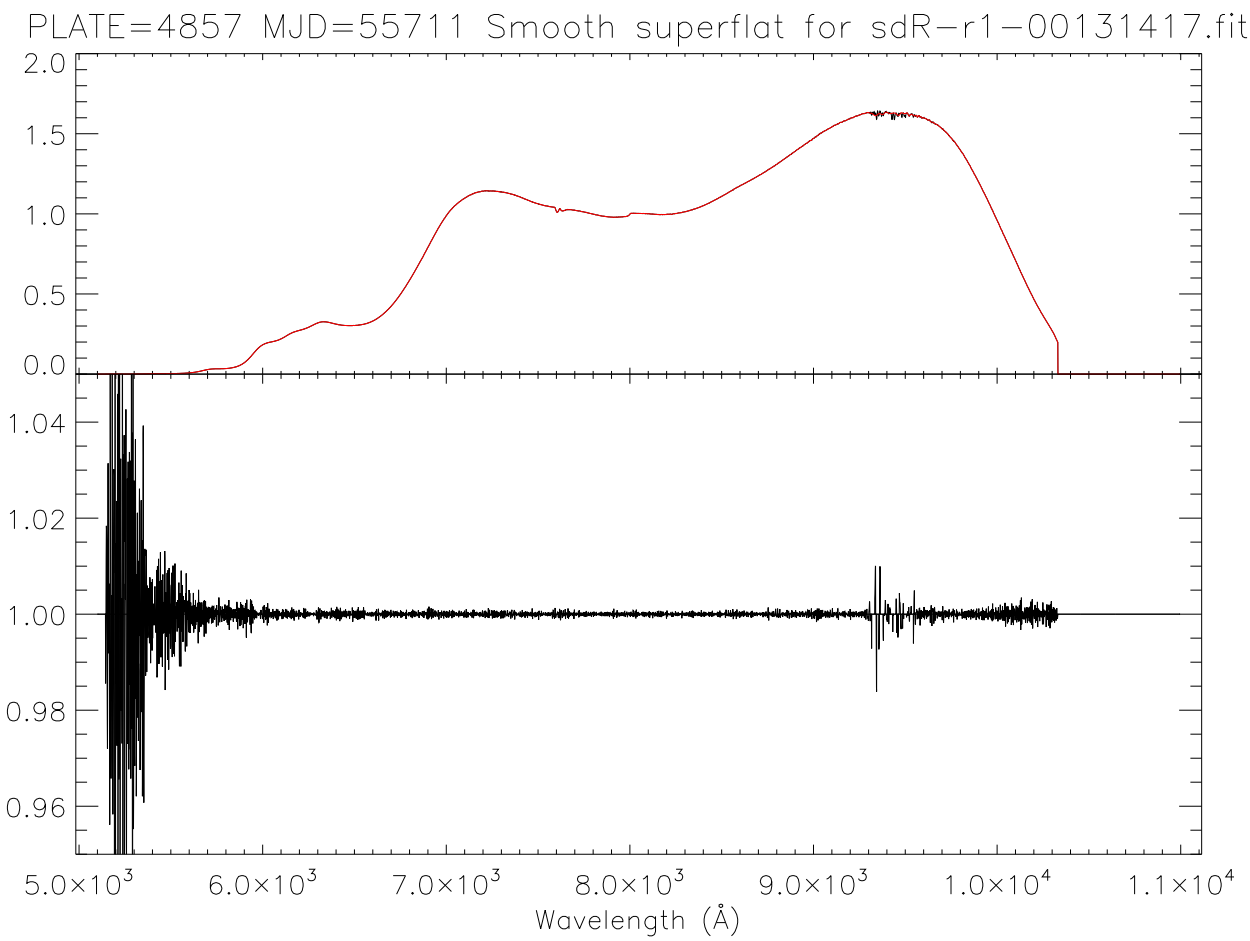

PLATE=4857 MJD=55711 sdR-r1-00131416.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.57 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

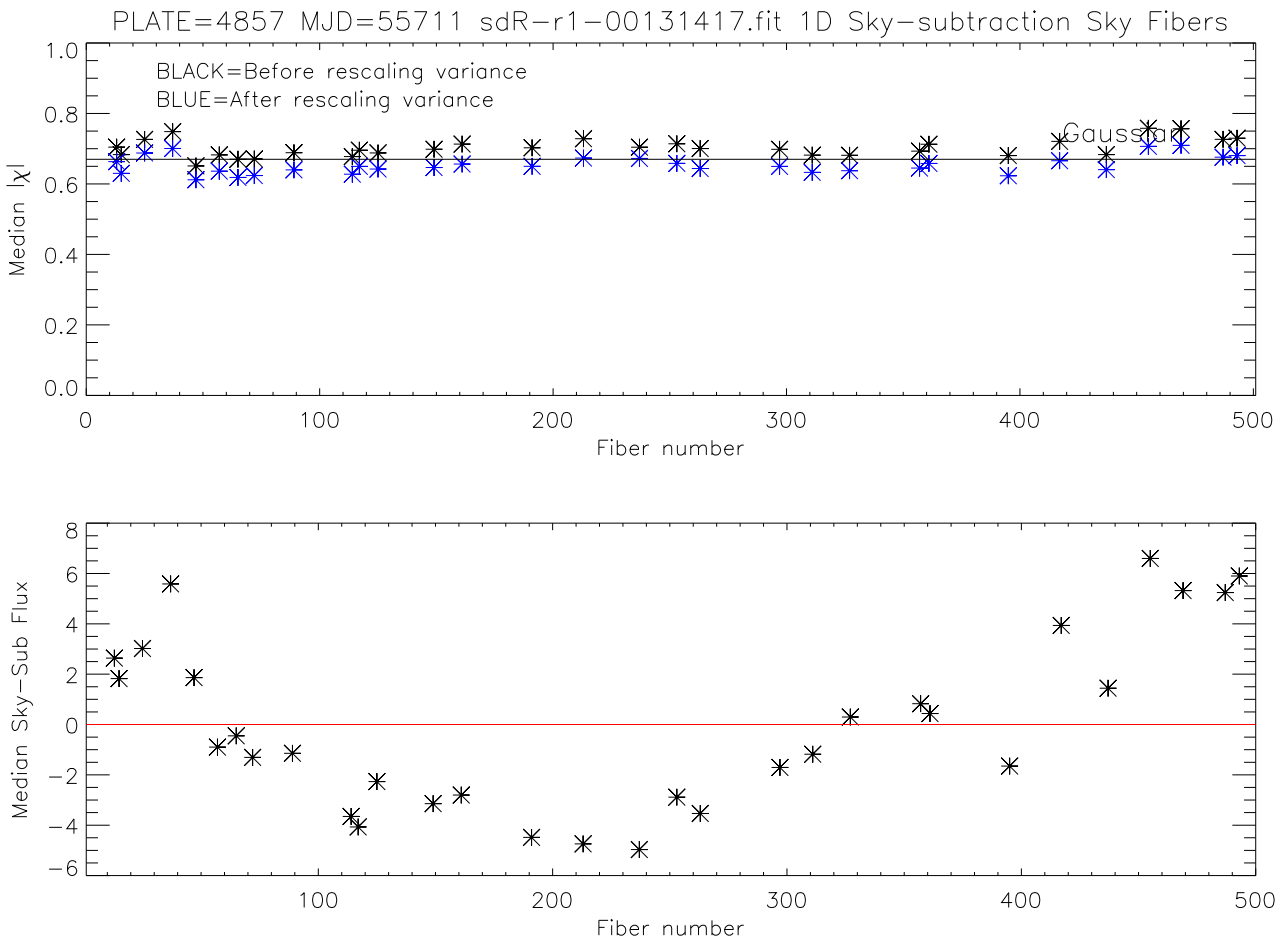

PLATE=4857 MJD=55711 sdR-r1-00131416.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.34 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

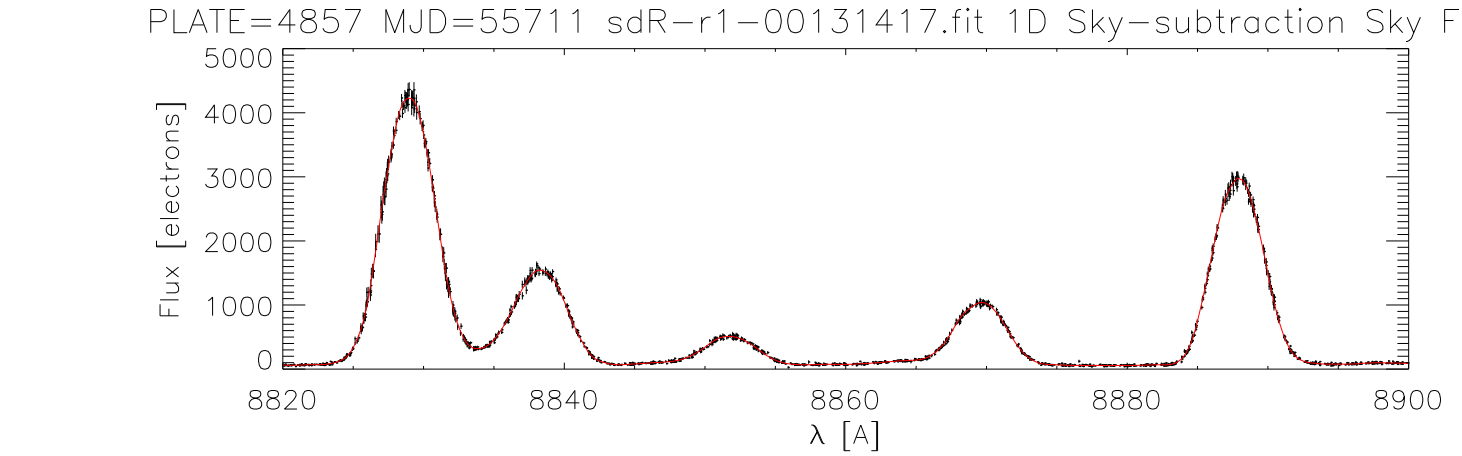

PLATE=4857 MJD=55711 Fiber−Flats for sdR−r1−00131414.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −1.374
Max value = 3.512
Fiber−Flat
1.5
1.0
0.5
0.0
6000
7000
8000
9000
10000
λ [A]
Wed Nov 18 18:21:49 2015

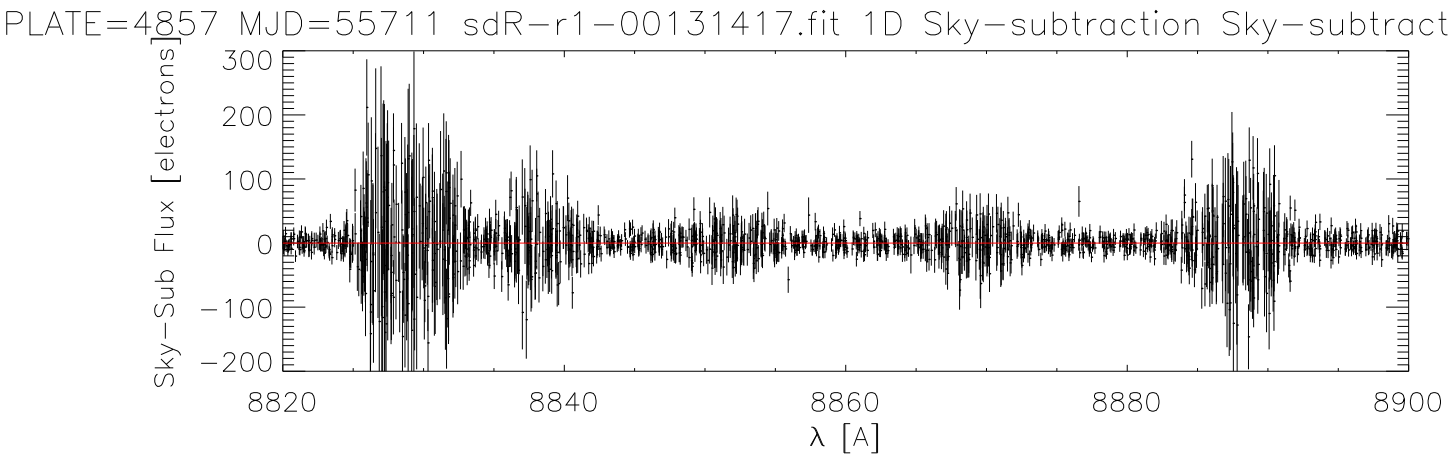

PLATE=4857 MJD=55711 Extraction chi$^2$ for sdR−r1−00131417.fit
BLACK = Final chisq extraction
$\chi^2$
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=4857 MJD=55711 Sky Line Deviations for sdR-r1-00131417.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

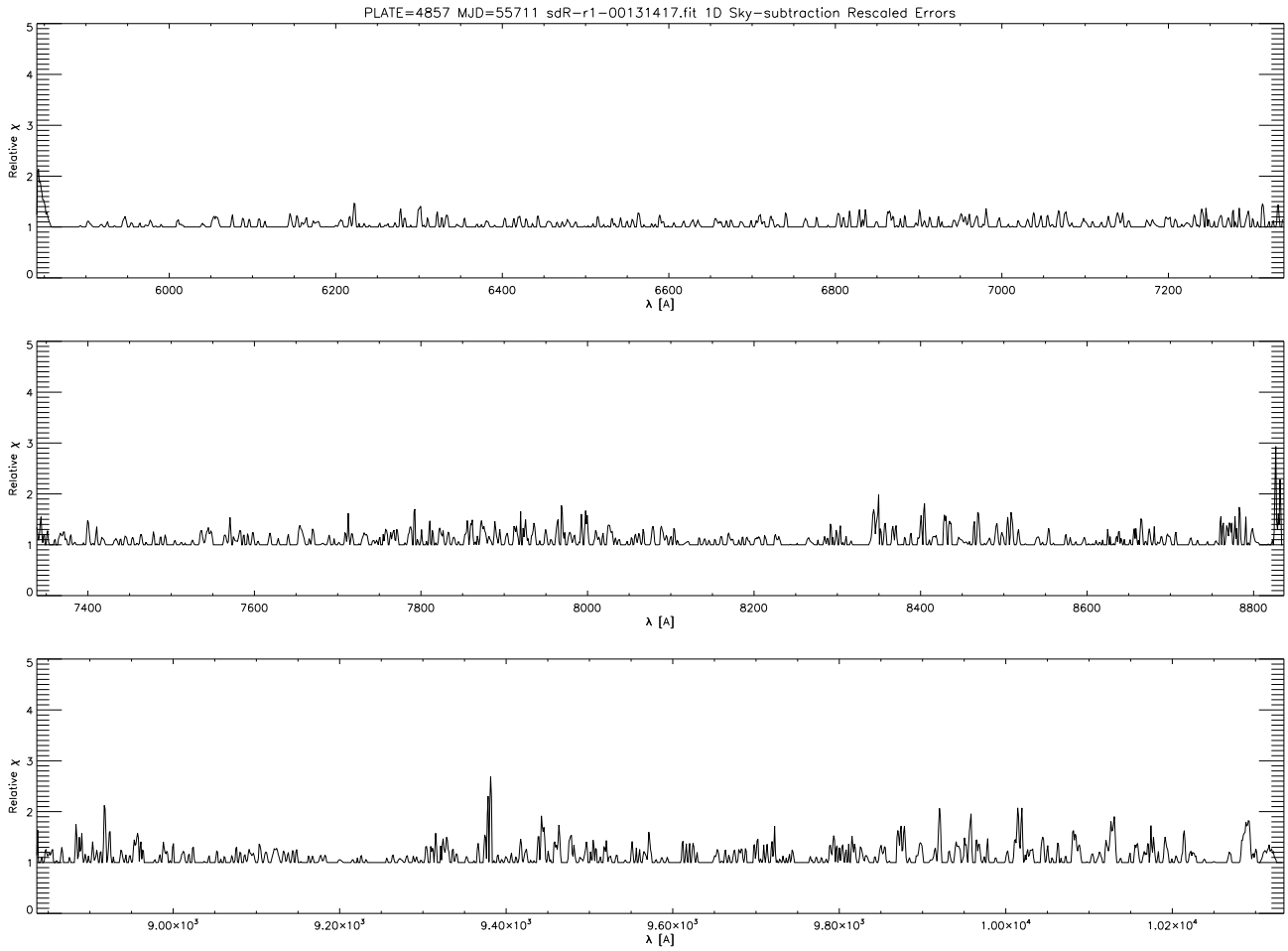

PLATE=4857 MJD=55711 Smooth superflat for sdR-r1-00131417.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

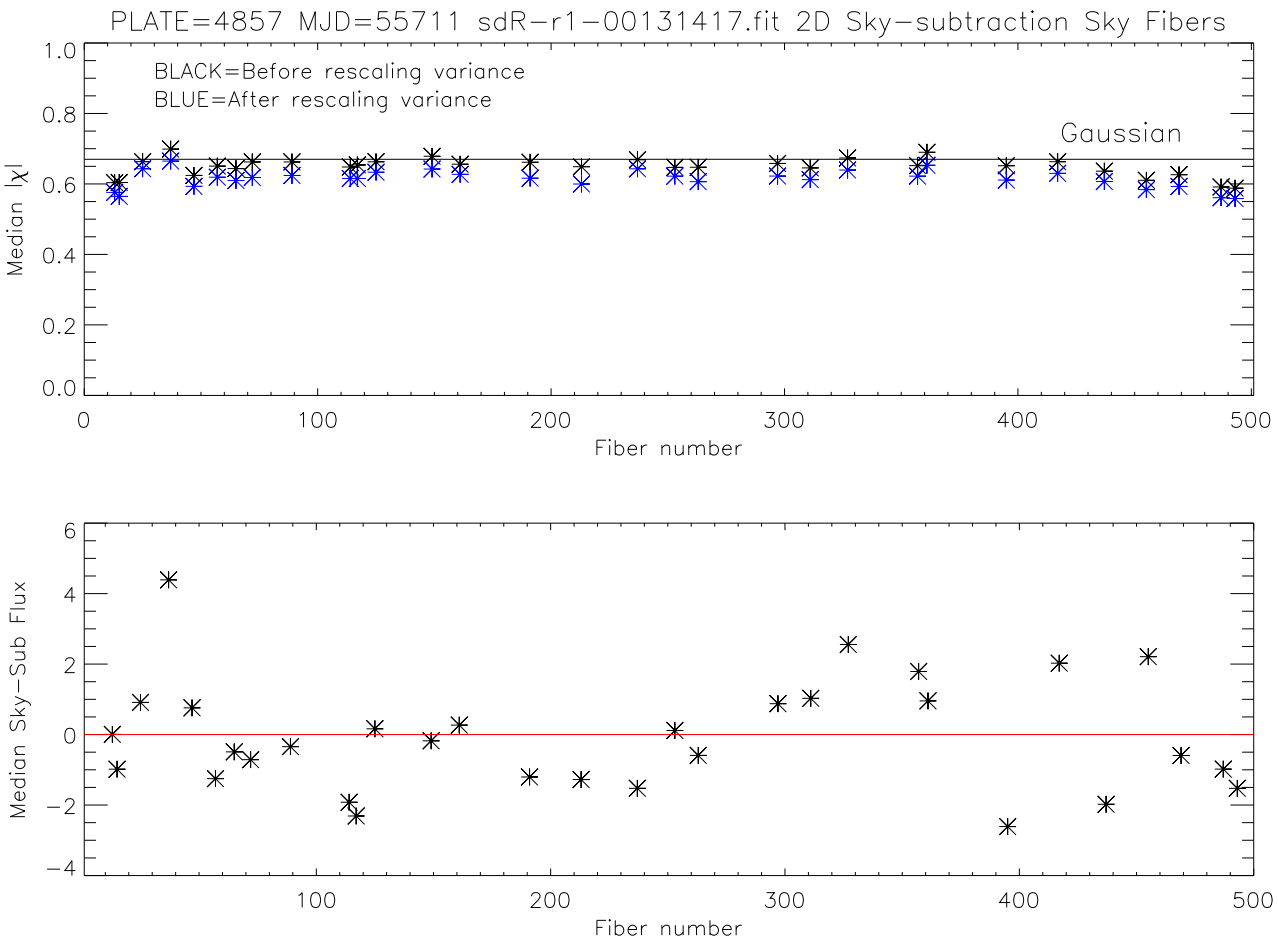

PLATE=4857 MJD=55711 sdR-r1-00131417.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

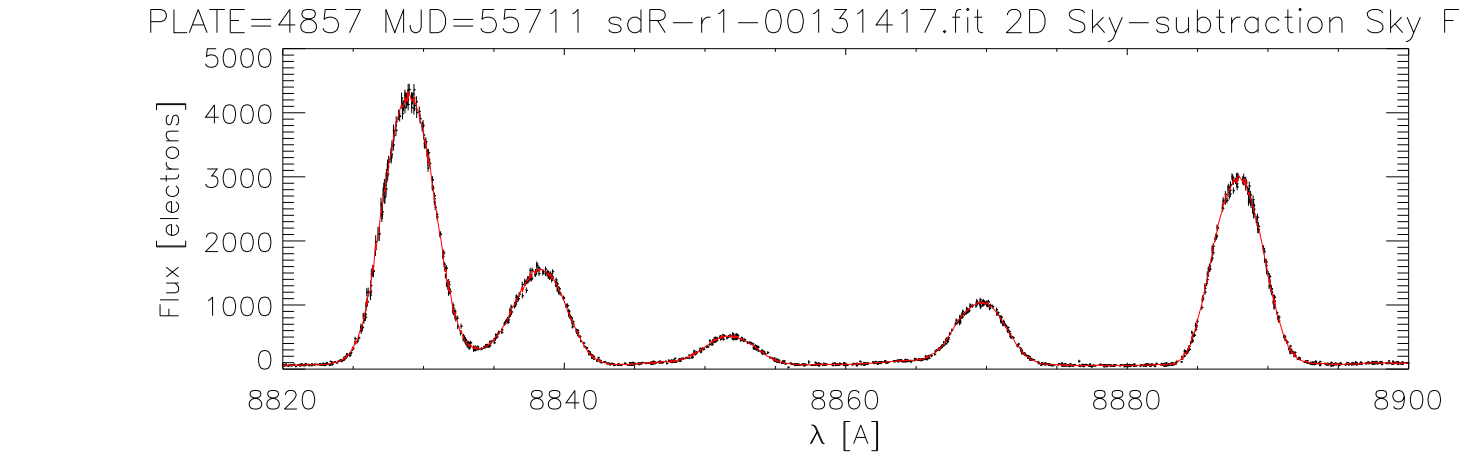

PLATE=4857 MJD=55711 sdR-r1-00131417.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

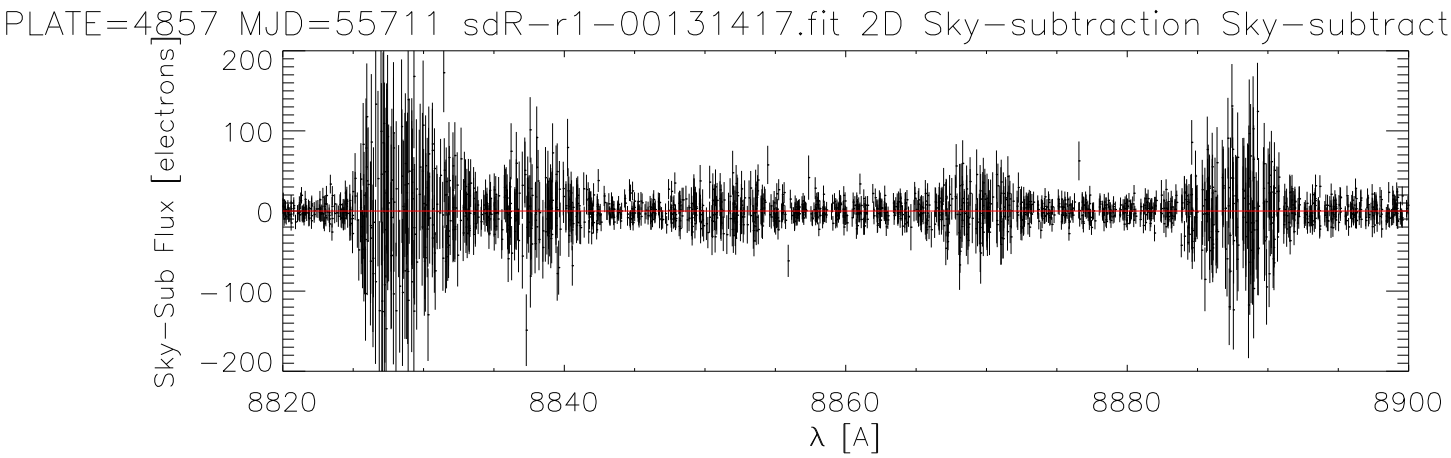

PLATE=4857 MJD=55711 sdR-r1-00131417.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 31

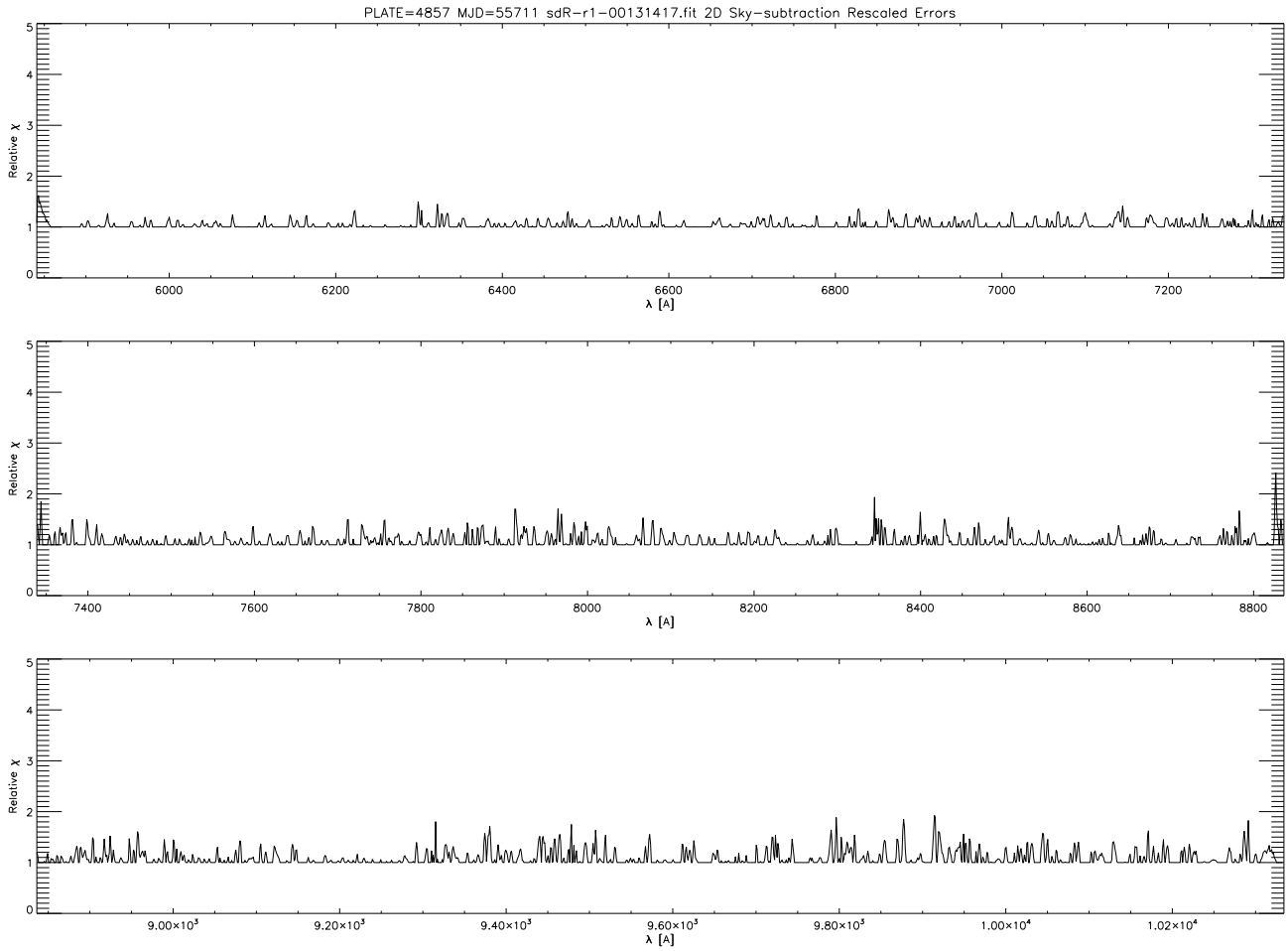


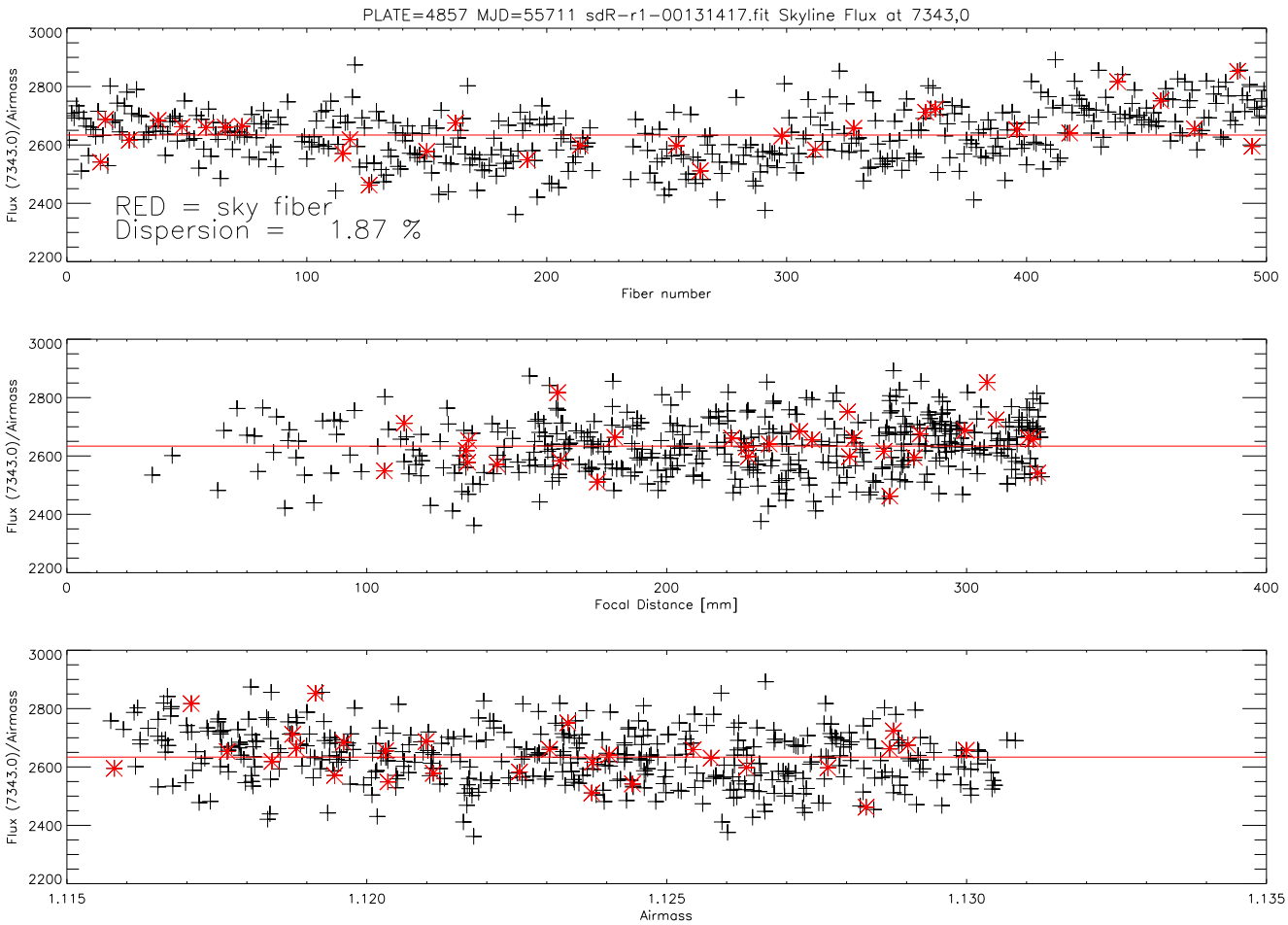

PLATE=4857 MJD=55711 sdR-r1-00131417.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

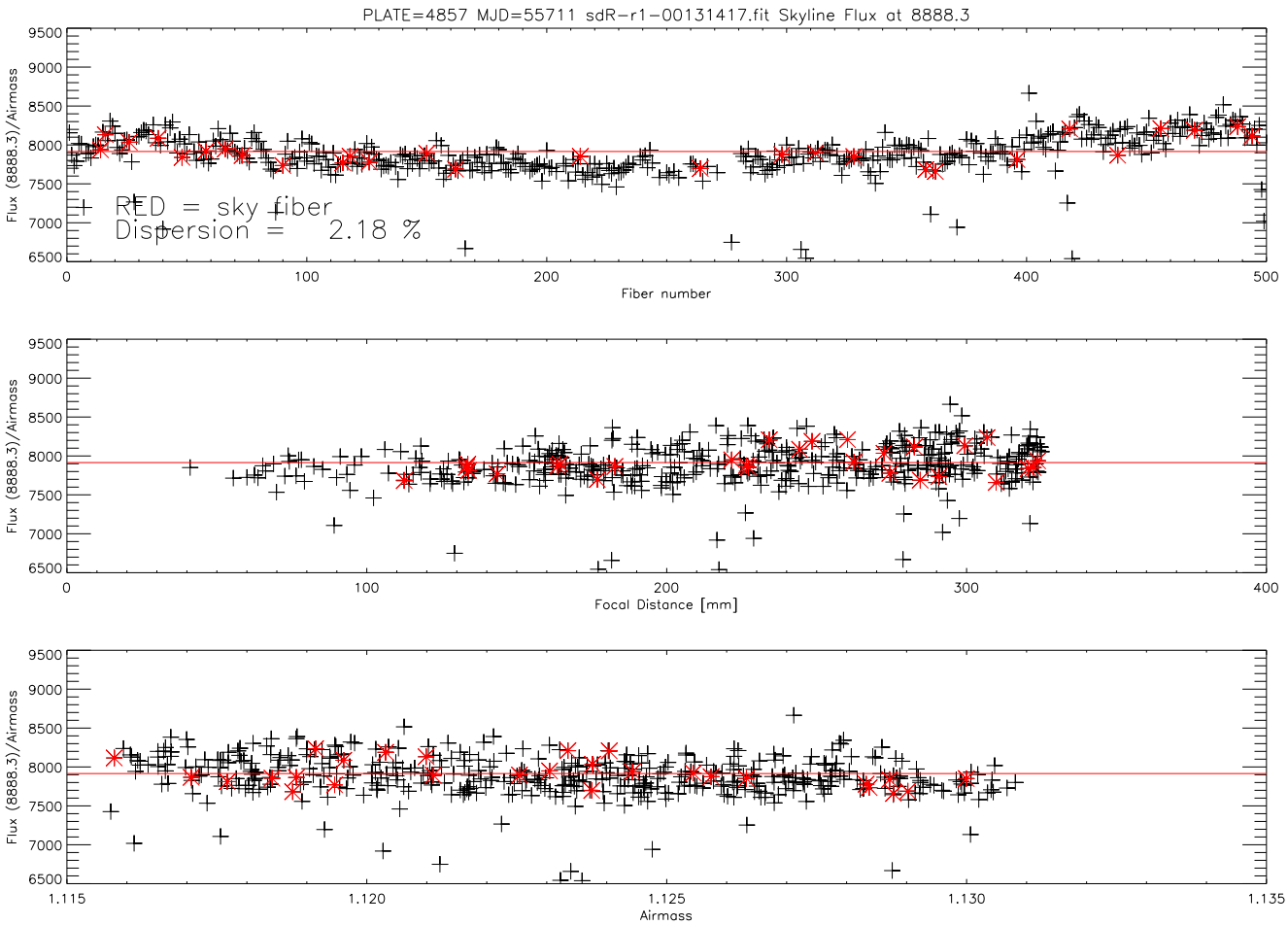

PLATE=4857 MJD=55711 sdR-r1-00131417.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

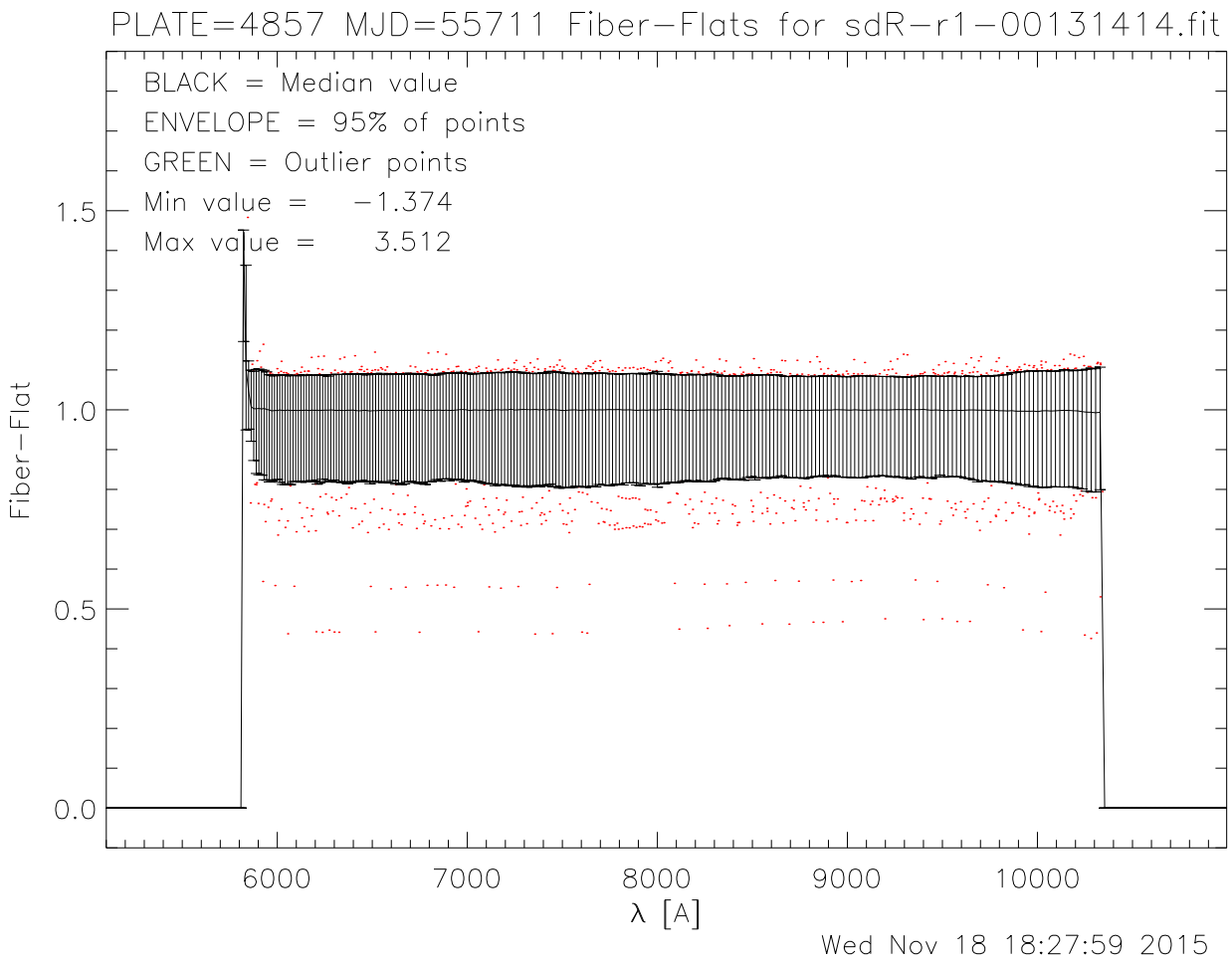

PLATE=4857 MJD=55711 sdR-r1-00131417.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

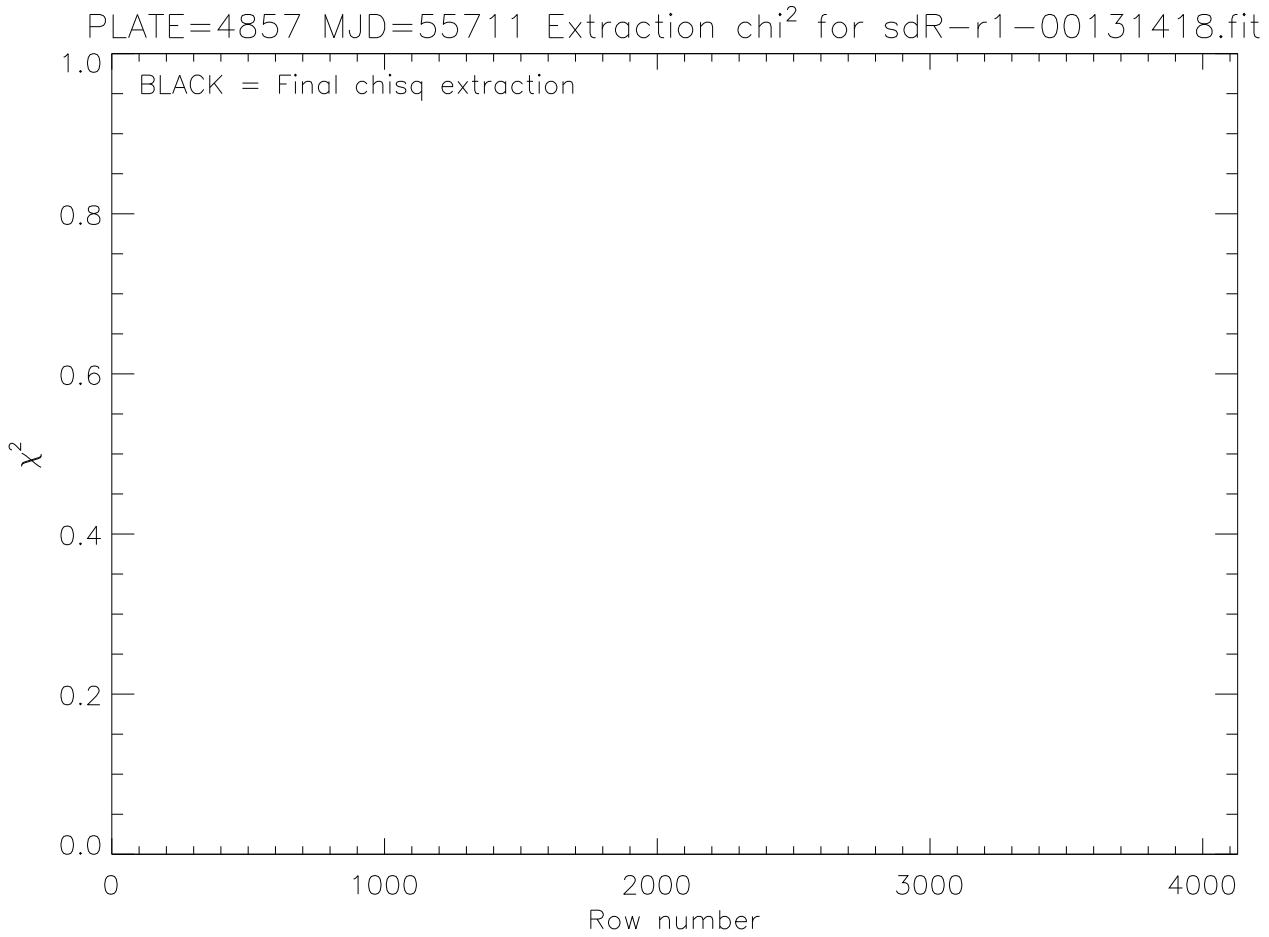
Number of sky fibers = 31

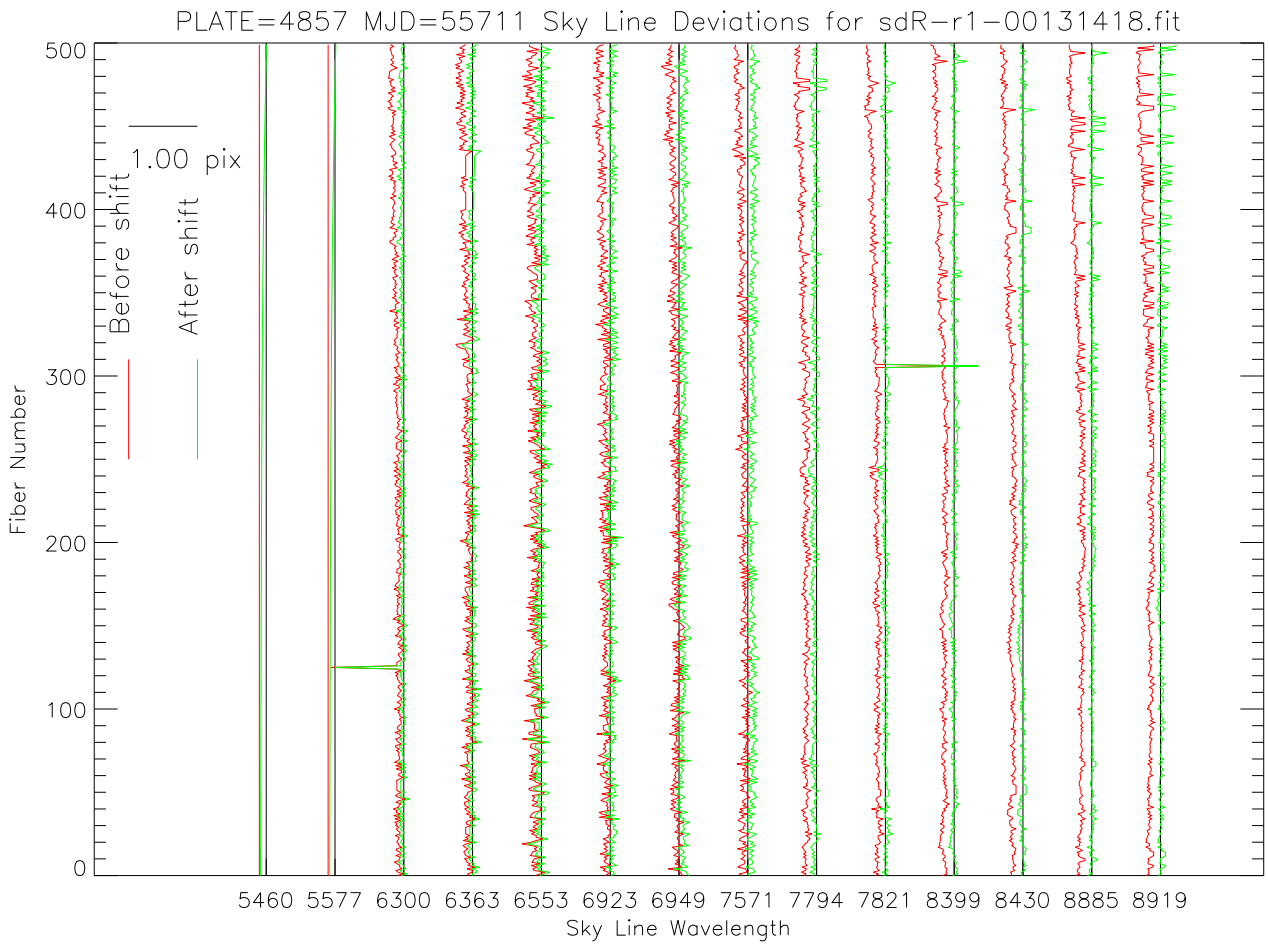


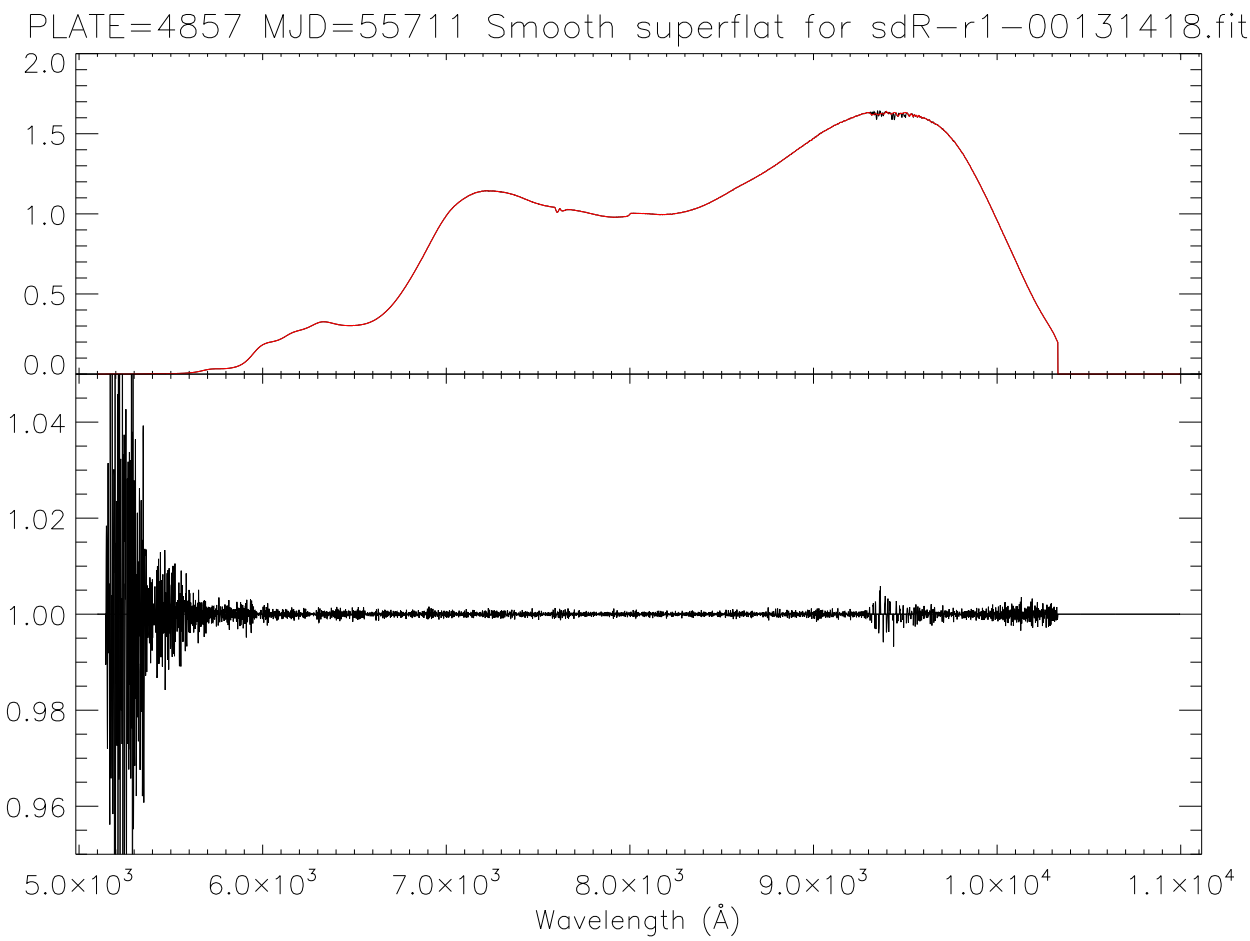

PLATE=4857 MJD=55711 sdR-r1-00131417.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 1.87 %
Fiber number
Focal Distance [mm]
Airmass

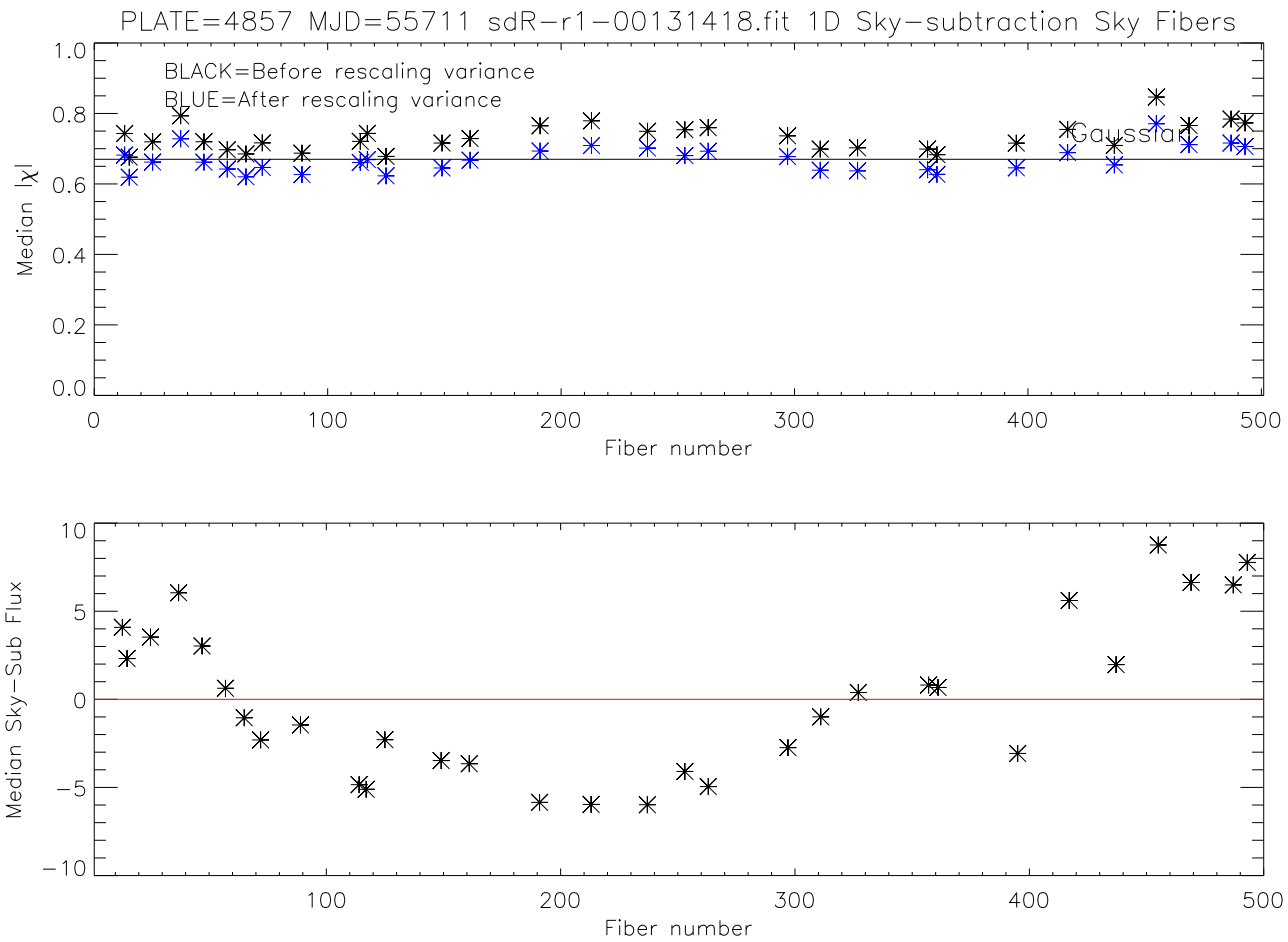

PLATE=4857 MJD=55711 sdR-r1-00131417.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.18 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

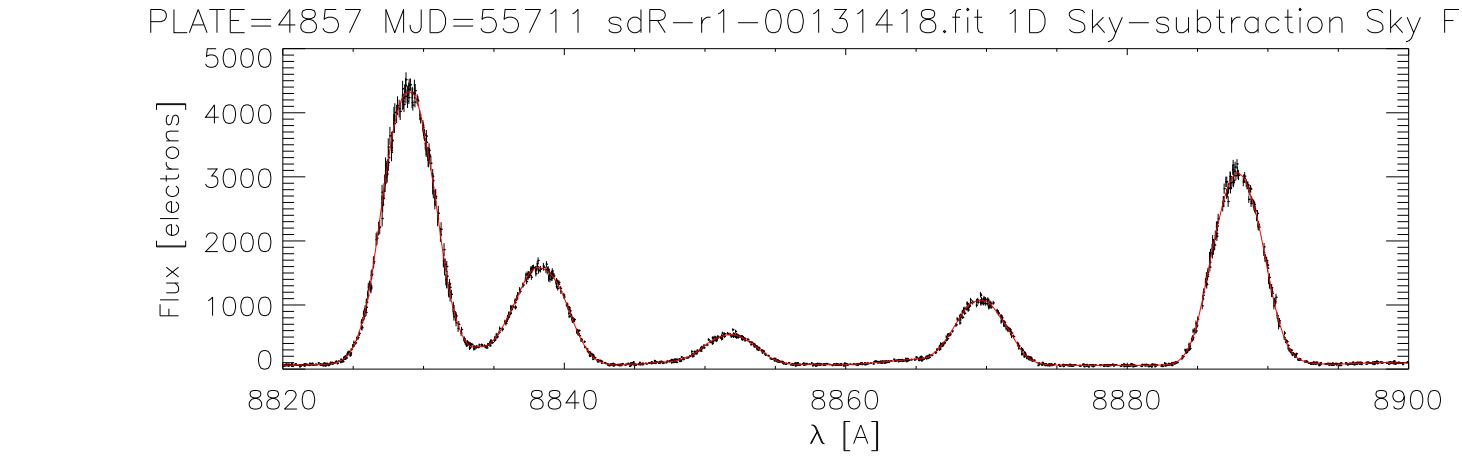

PLATE=4857 MJD=55711 Fiber−Flats for sdR−r1−00131414.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −1.374
Max value = 3.512
Fiber−Flat
1.5
1.0
0.5
0.0
6000
7000
8000
9000
10000
λ [A]
Wed Nov 18 18:27:59 2015

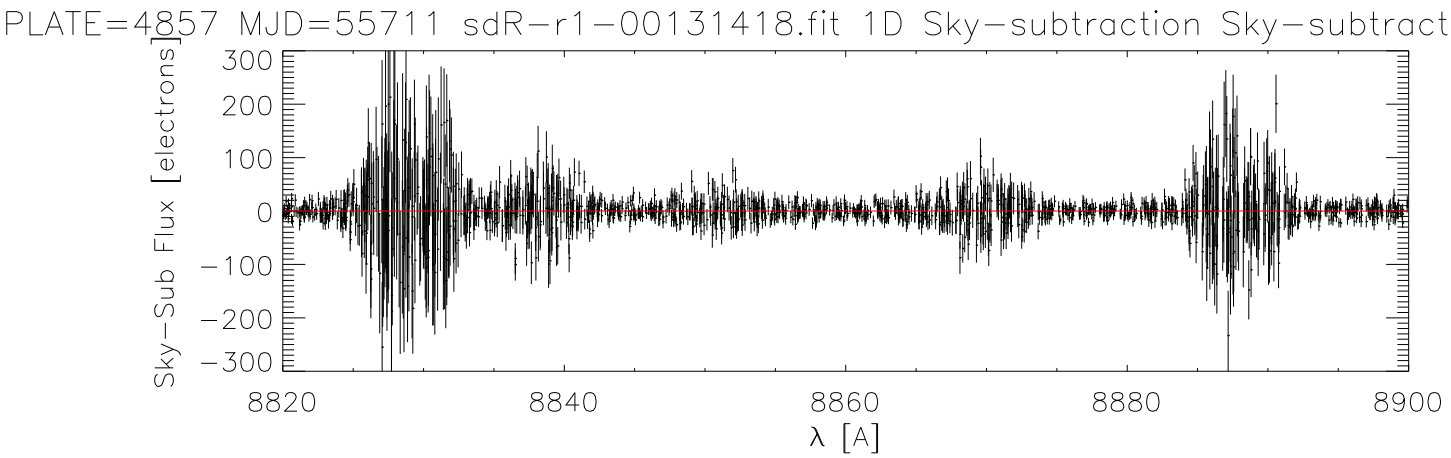

PLATE=4857 MJD=55711 Extraction chi$^2$ for sdR−r1−00131418.fit
BLACK = Final chisq extraction
$\chi^2$
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=4857 MJD=55711 Sky Line Deviations for sdR-r1-00131418.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

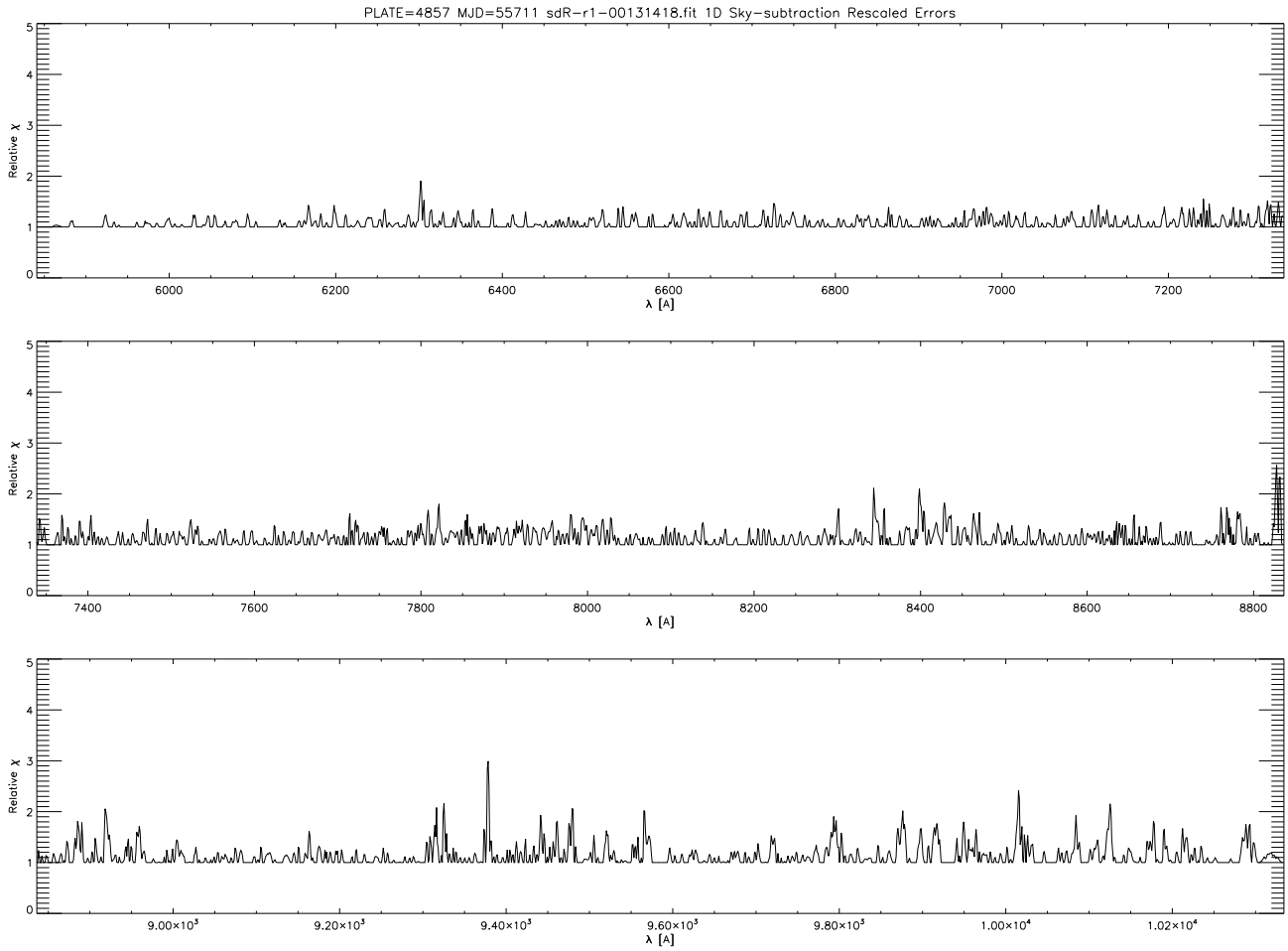

PLATE=4857 MJD=55711 Smooth superflat for sdR-r1-00131418.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

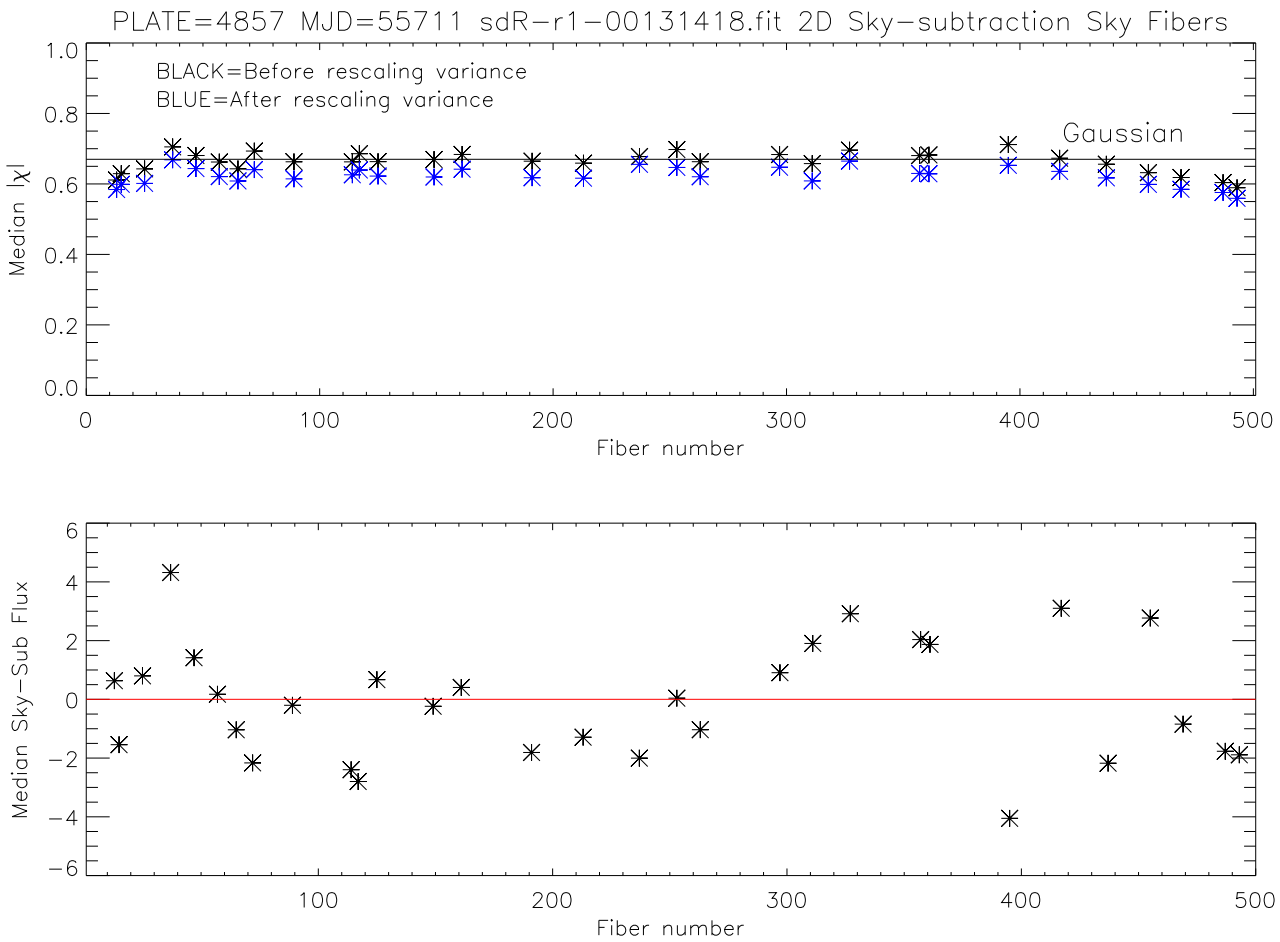

PLATE=4857 MJD=55711 sdR-r1-00131418.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

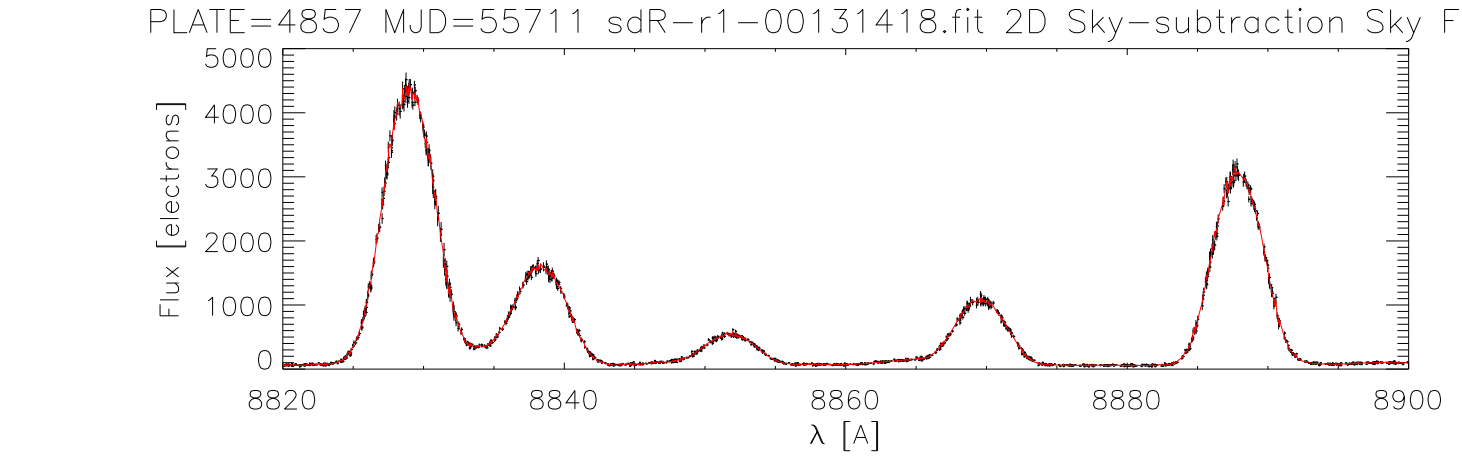

PLATE=4857 MJD=55711 sdR-r1-00131418.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

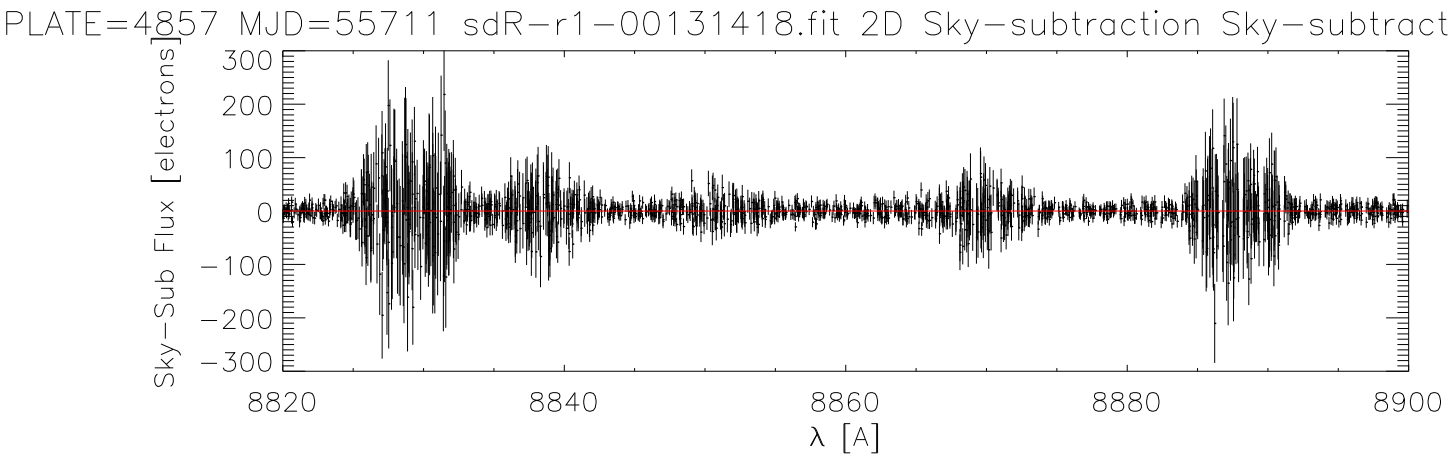

PLATE=4857 MJD=55711 sdR-r1-00131418.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 31

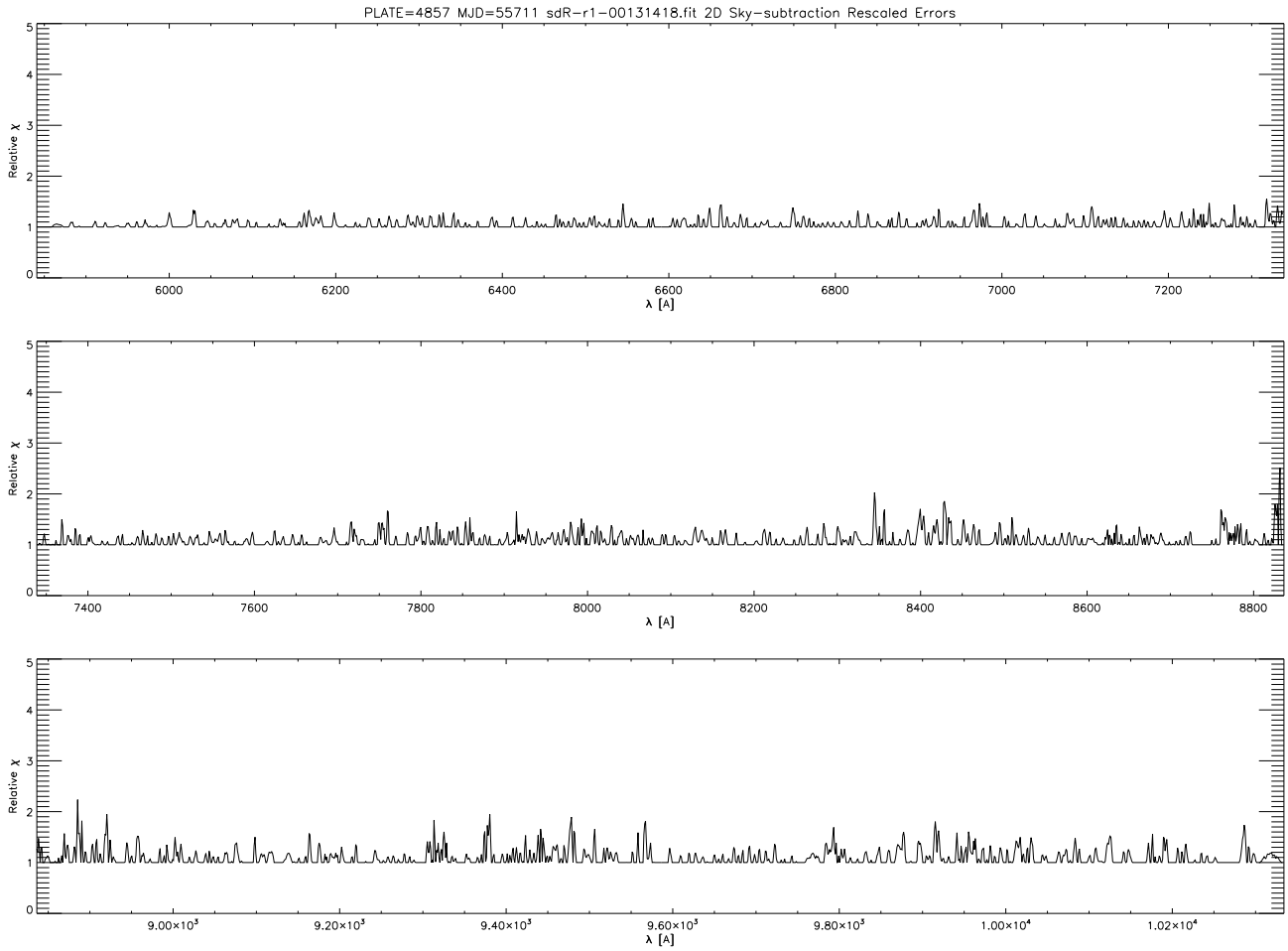


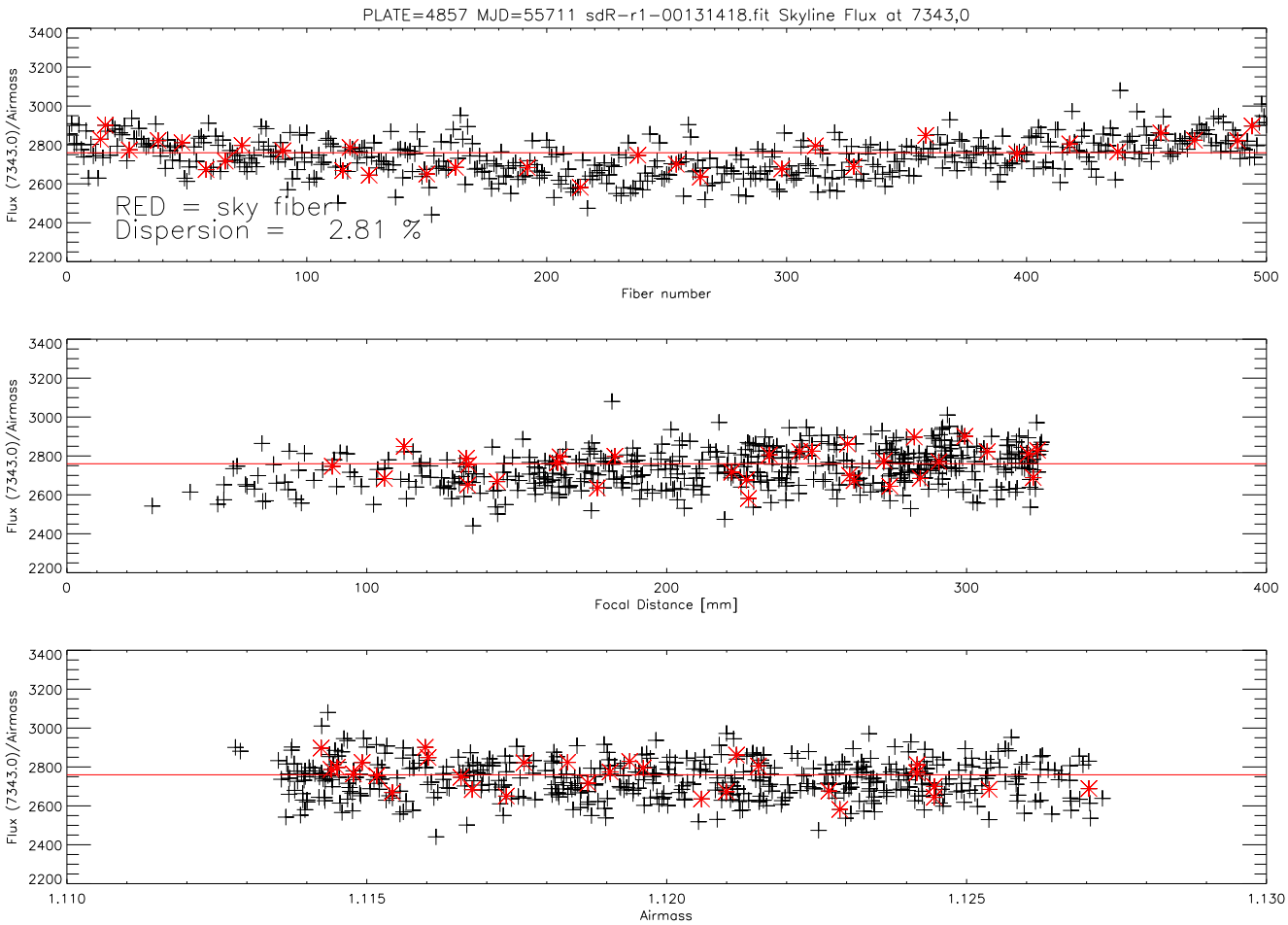

PLATE=4857 MJD=55711 sdR-r1-00131418.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

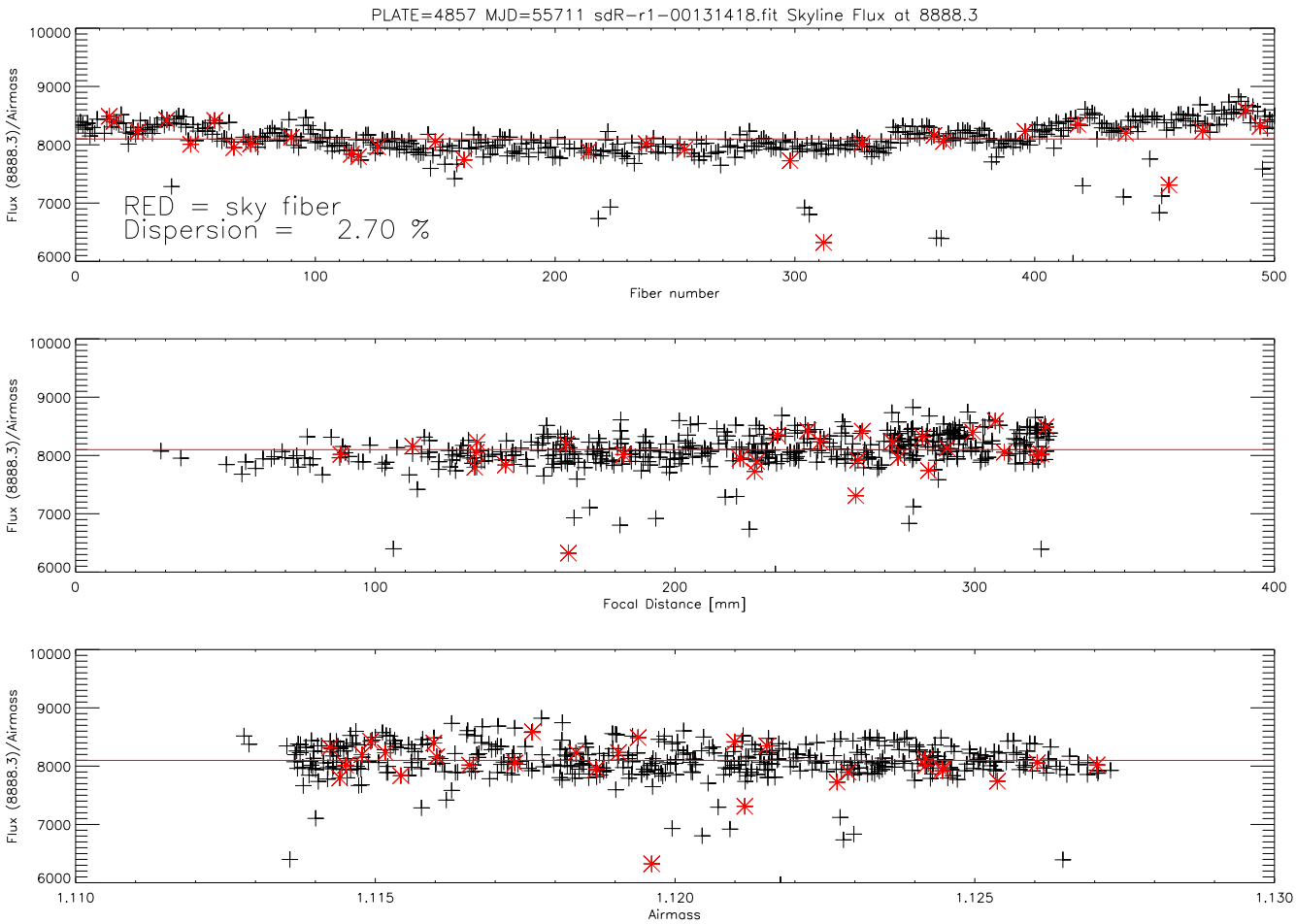

PLATE=4857 MJD=55711 sdR-r1-00131418.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

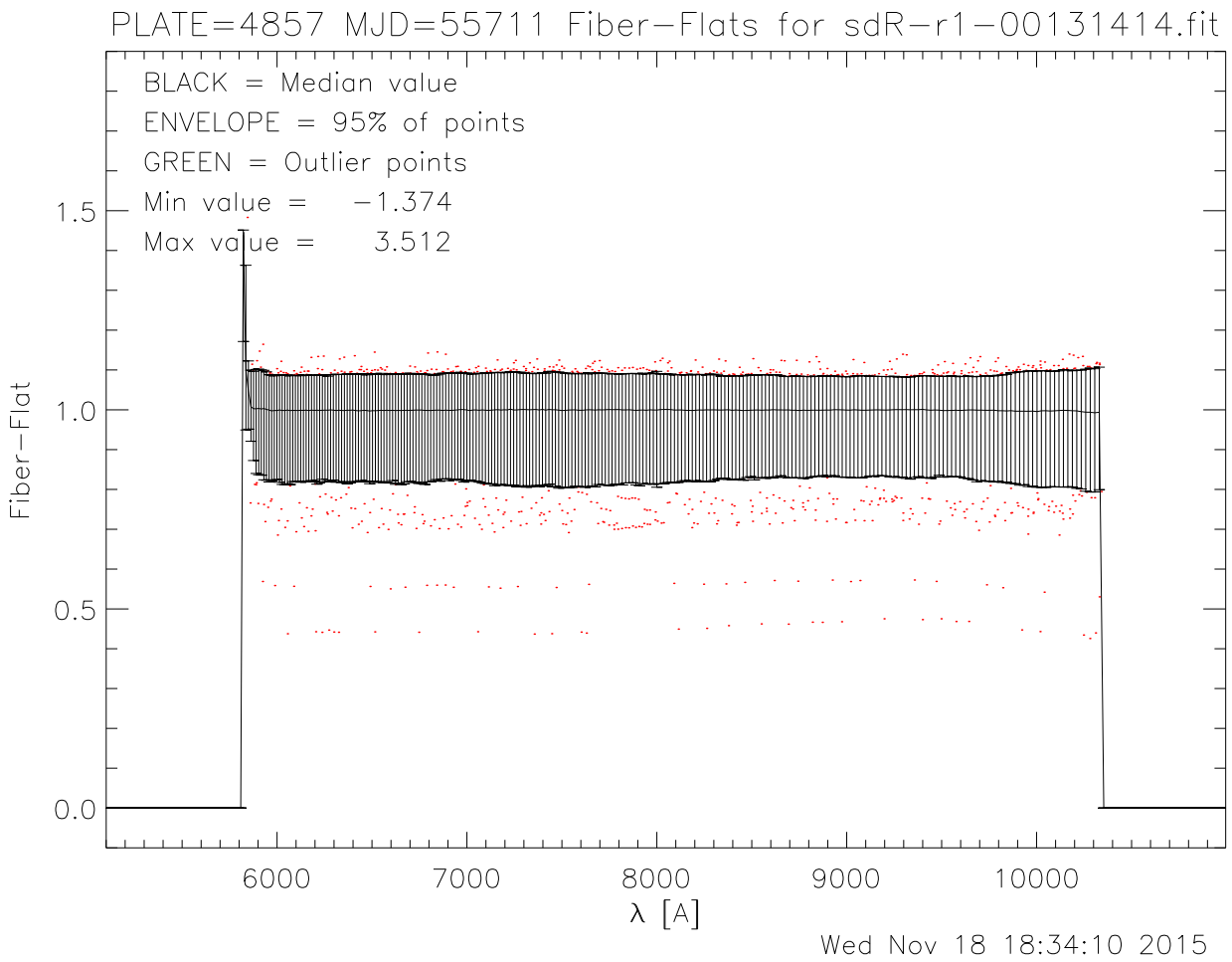

PLATE=4857 MJD=55711 sdR-r1-00131418.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

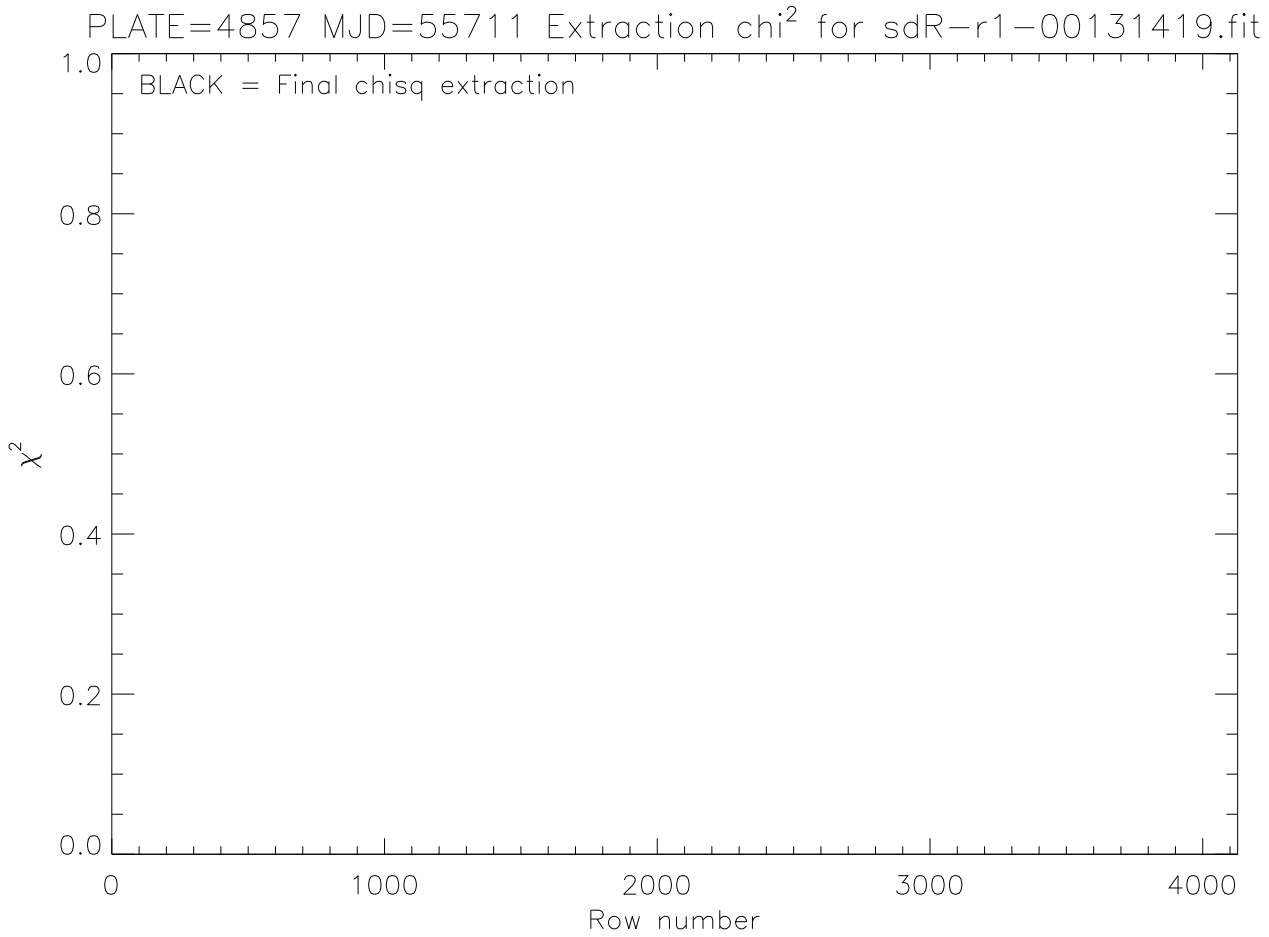
Number of sky fibers = 31

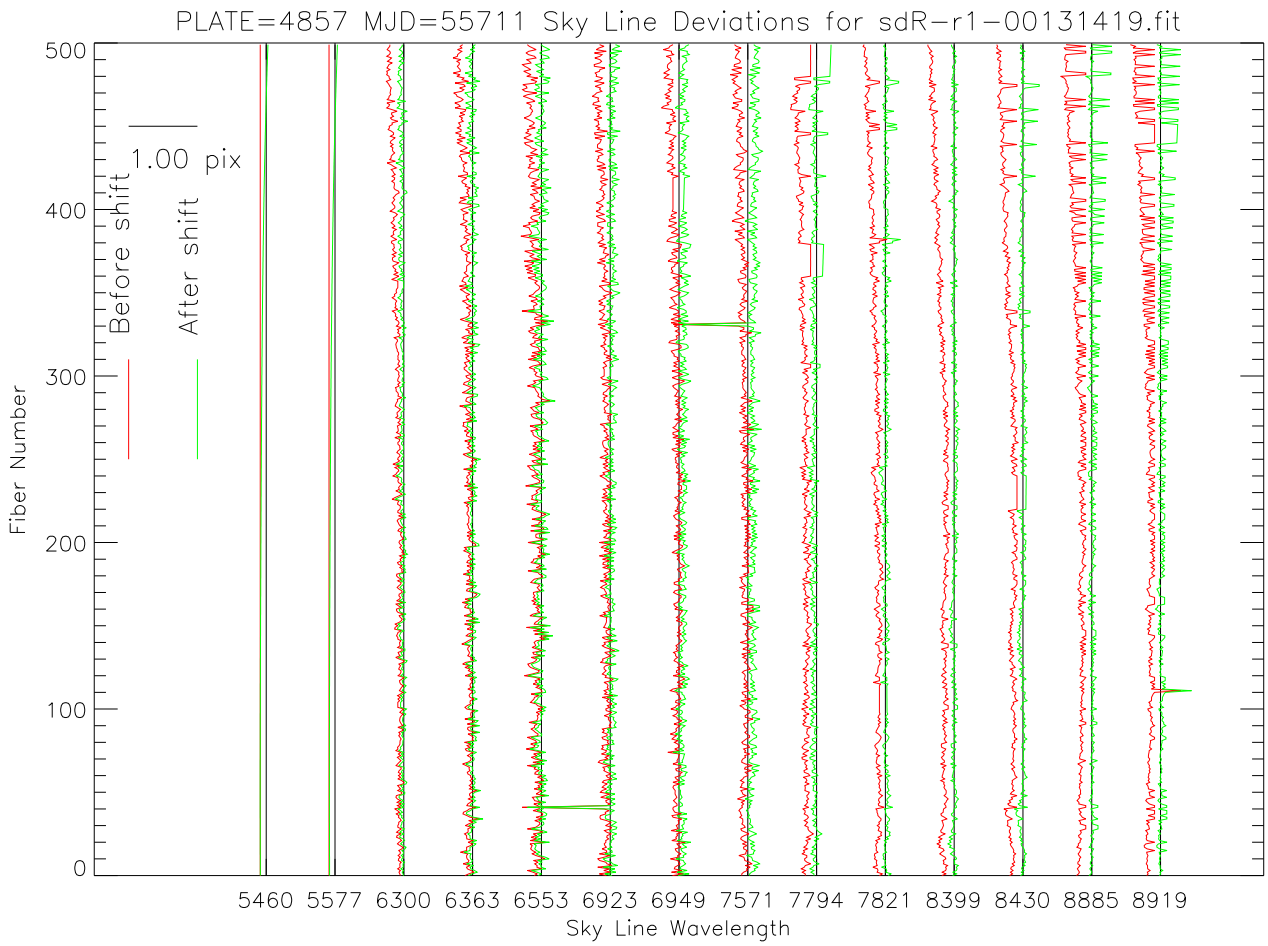


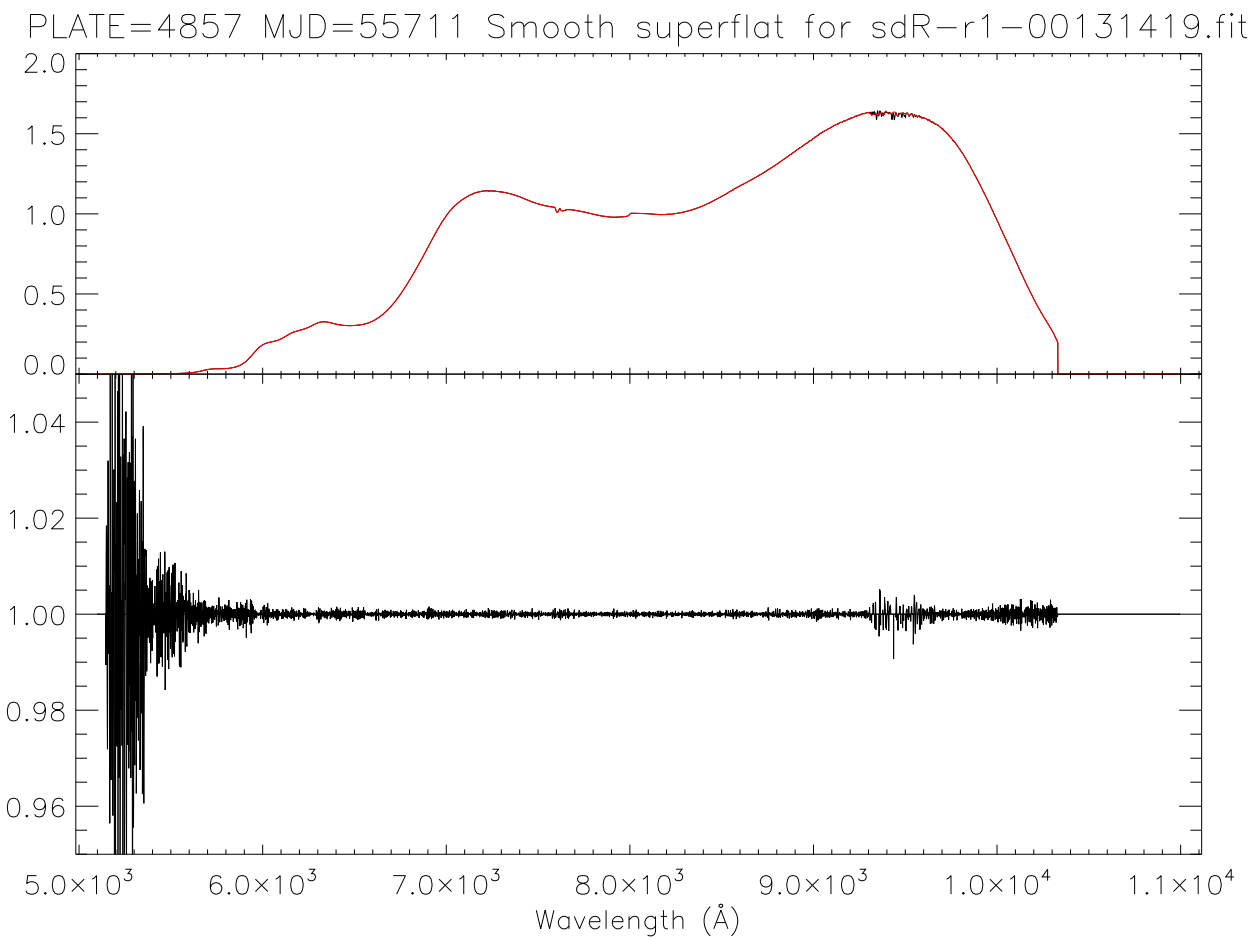

PLATE=4857 MJD=55711 sdR-r1-00131418.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.81 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

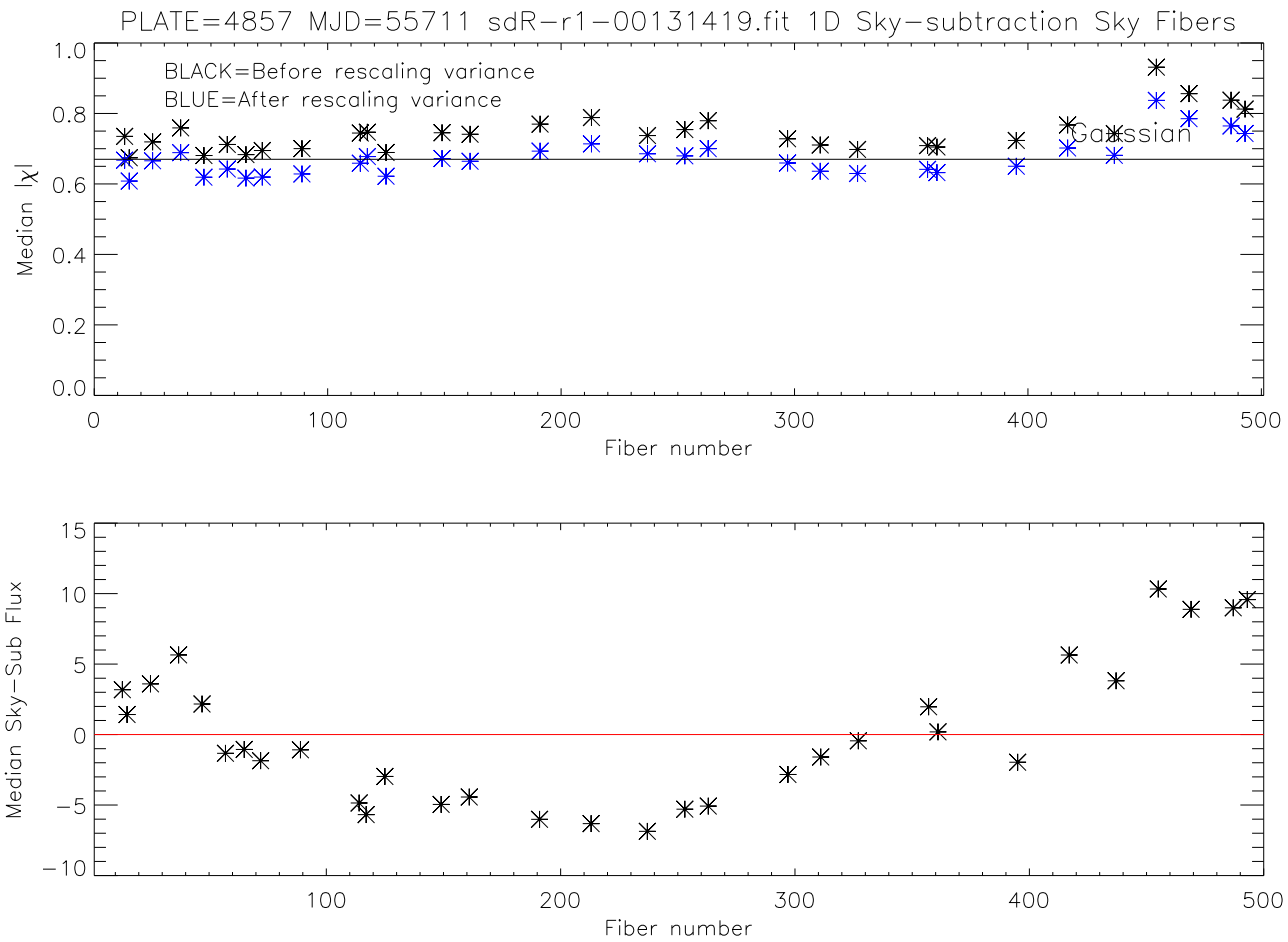

PLATE=4857 MJD=55711 sdR-r1-00131418.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.70 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

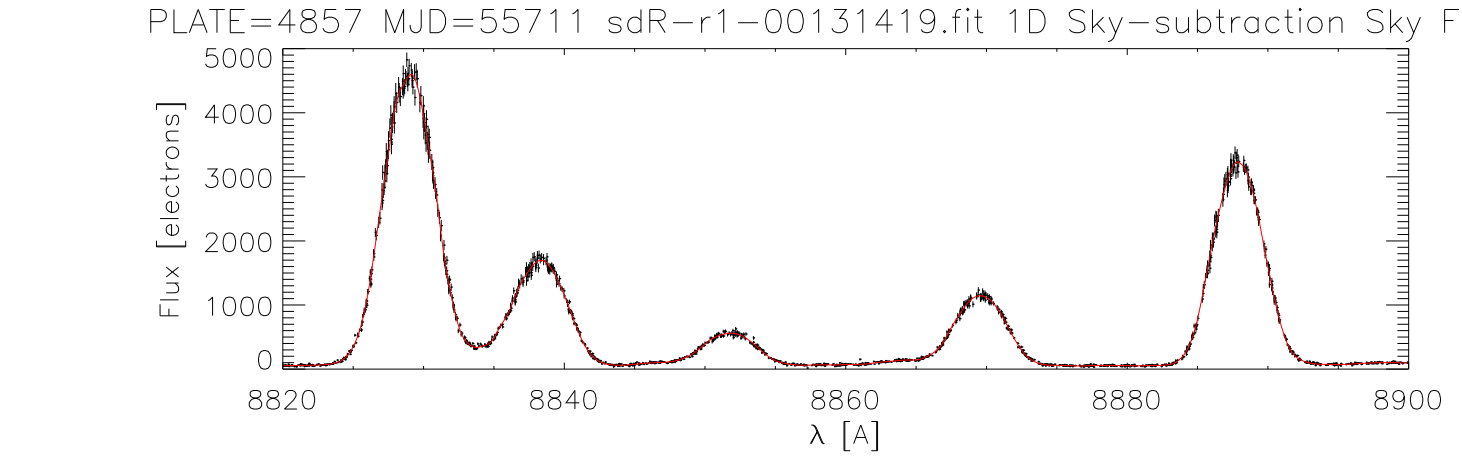

PLATE=4857 MJD=55711 Fiber−Flats for sdR−r1−00131414.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −1.374
Max value = 3.512
Fiber−Flat
1.5
1.0
0.5
0.0
6000
7000
8000
9000
10000
λ [A]
Wed Nov 18 18:34:10 2015

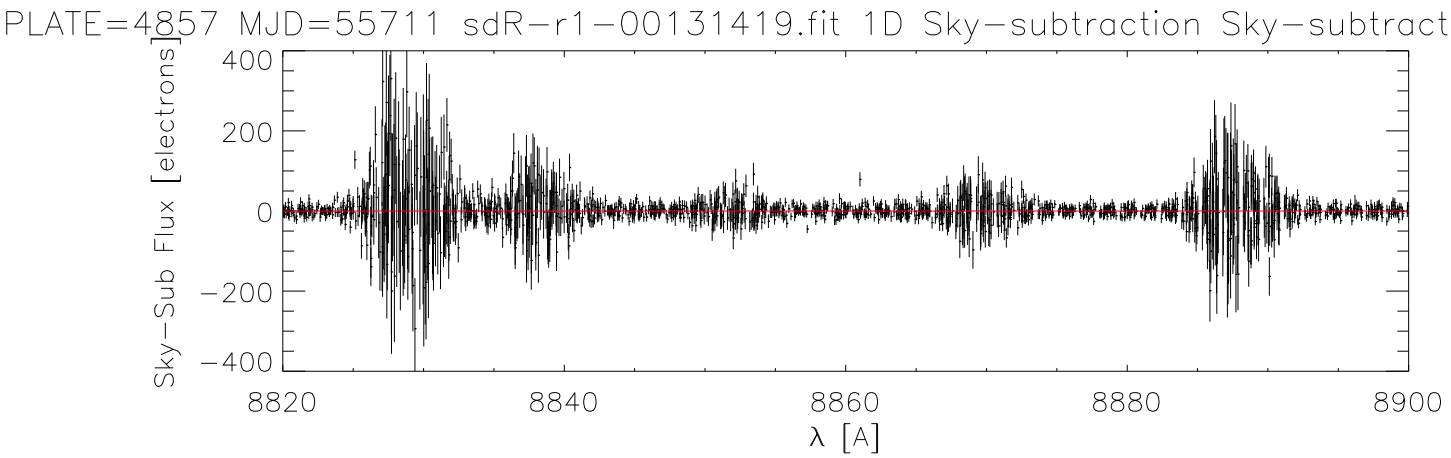

PLATE=4857 MJD=55711 Extraction chi$^2$ for sdR−r1−00131419.fit
BLACK = Final chisq extraction
$\chi^2$
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=4857 MJD=55711 Sky Line Deviations for sdR-r1-00131419.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

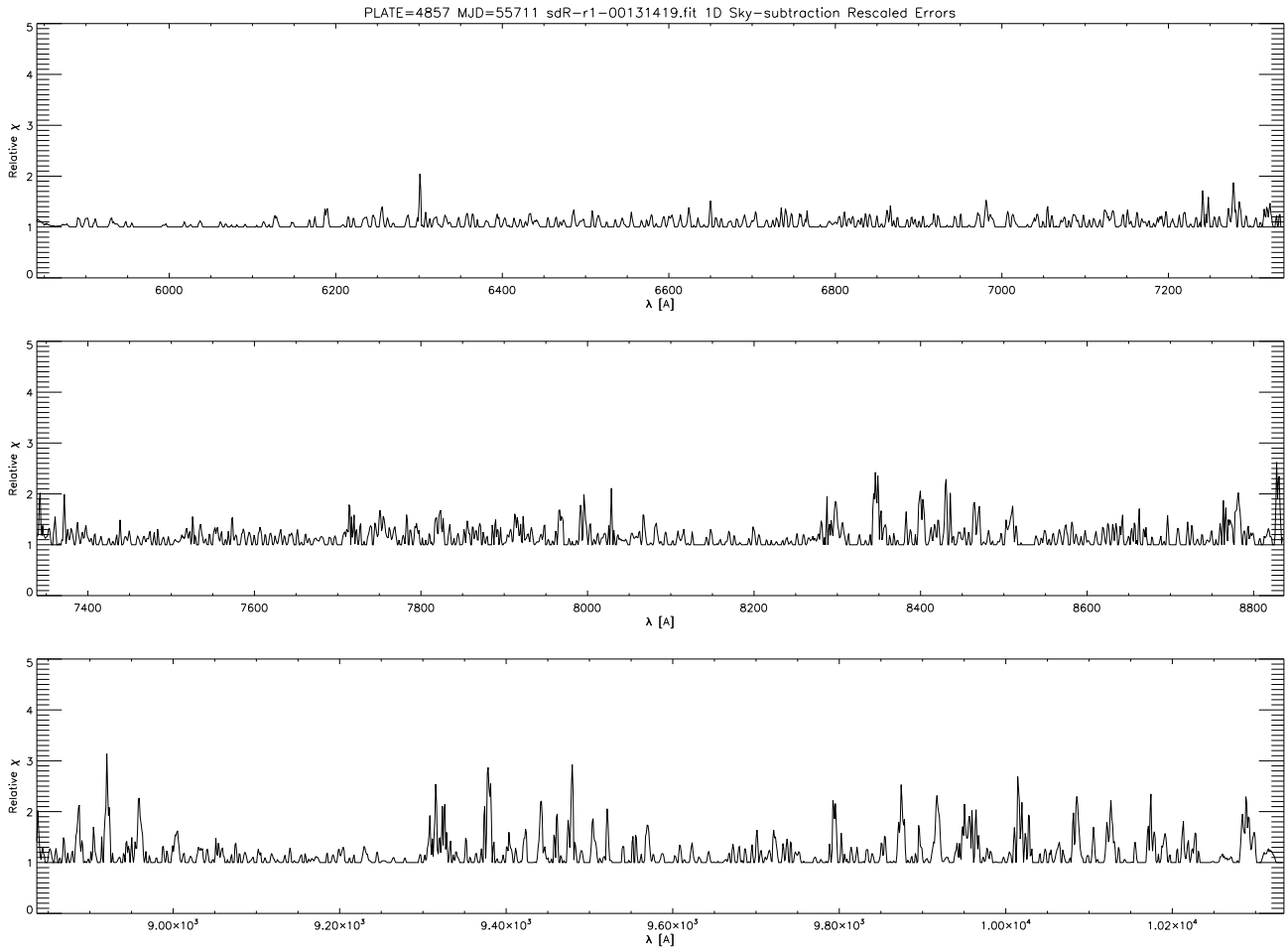

PLATE=4857 MJD=55711 Smooth superflat for sdR-r1-00131419.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

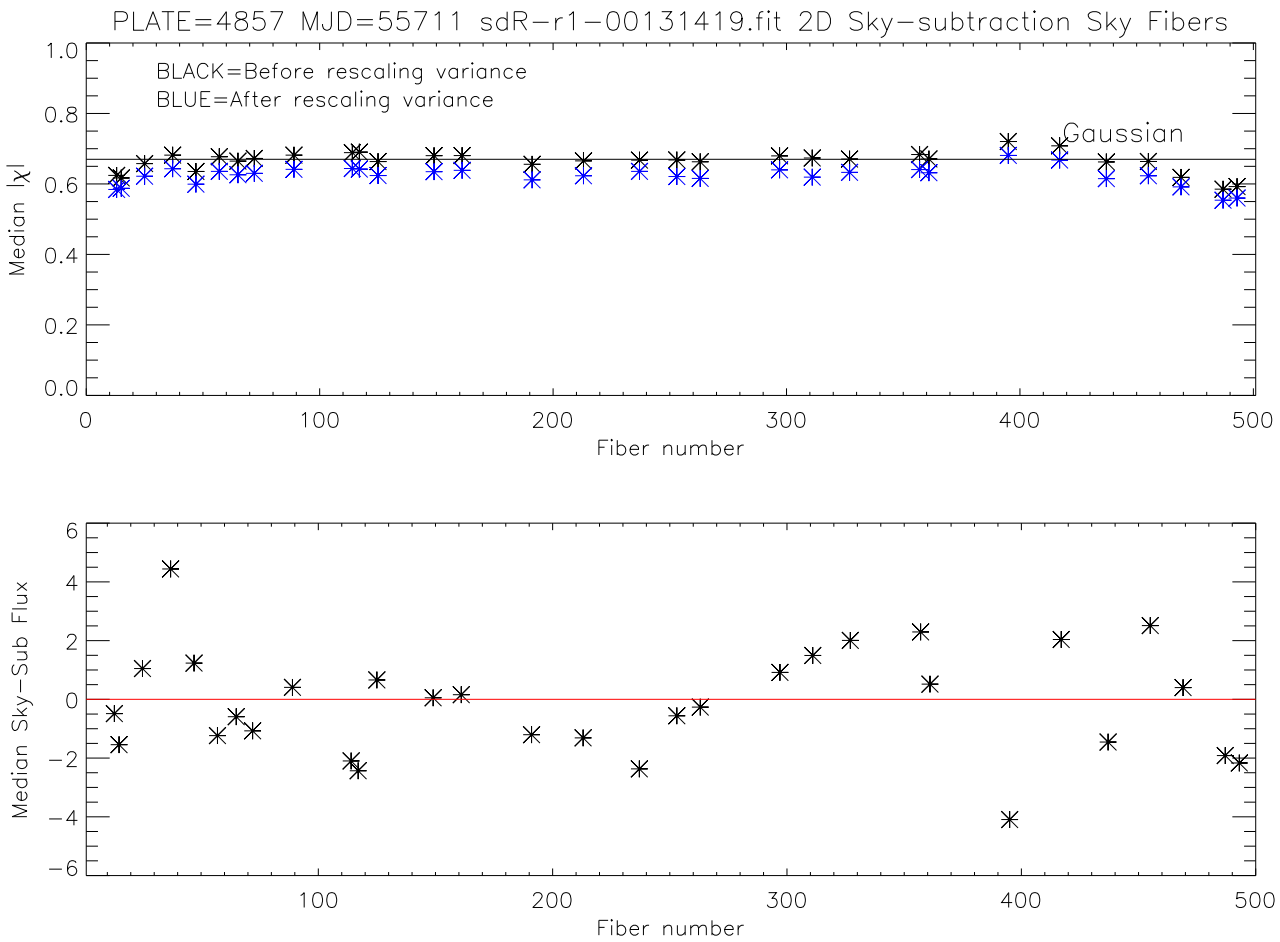

PLATE=4857 MJD=55711 sdR-r1-00131419.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

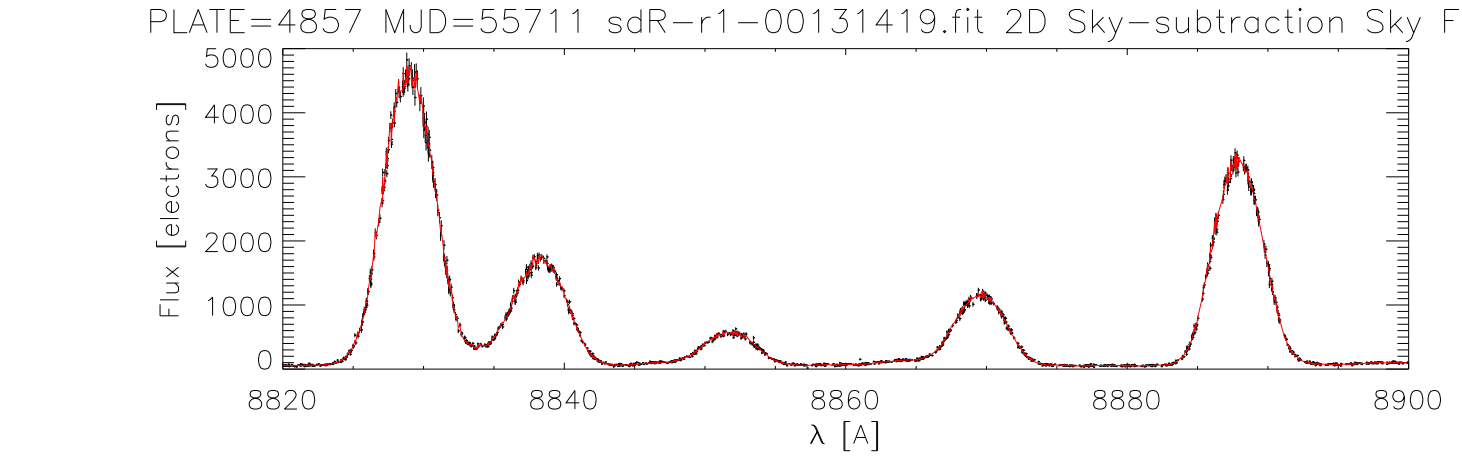

PLATE=4857 MJD=55711 sdR-r1-00131419.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

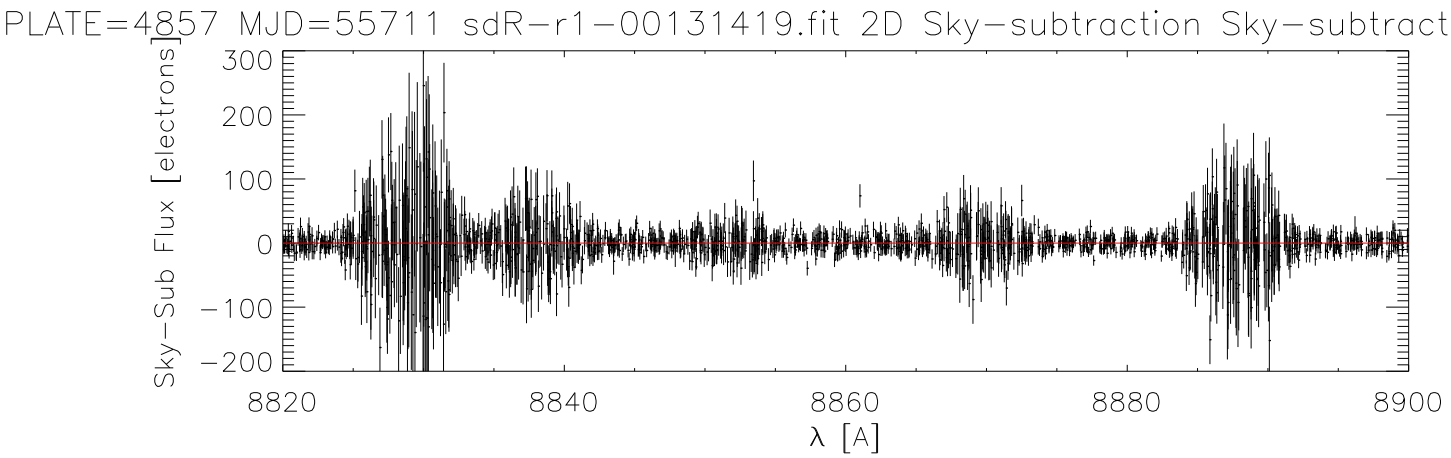

PLATE=4857 MJD=55711 sdR-r1-00131419.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 31

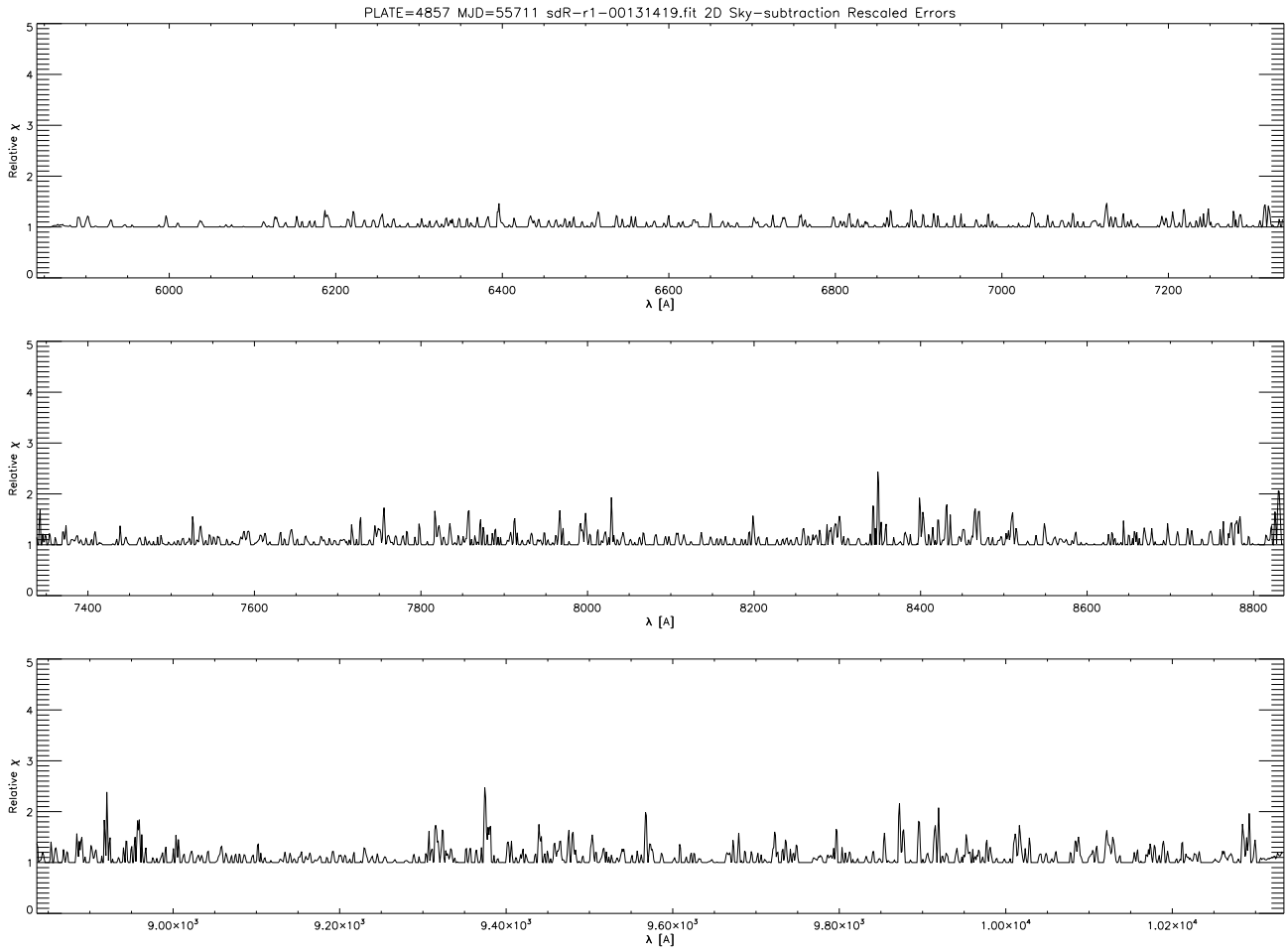


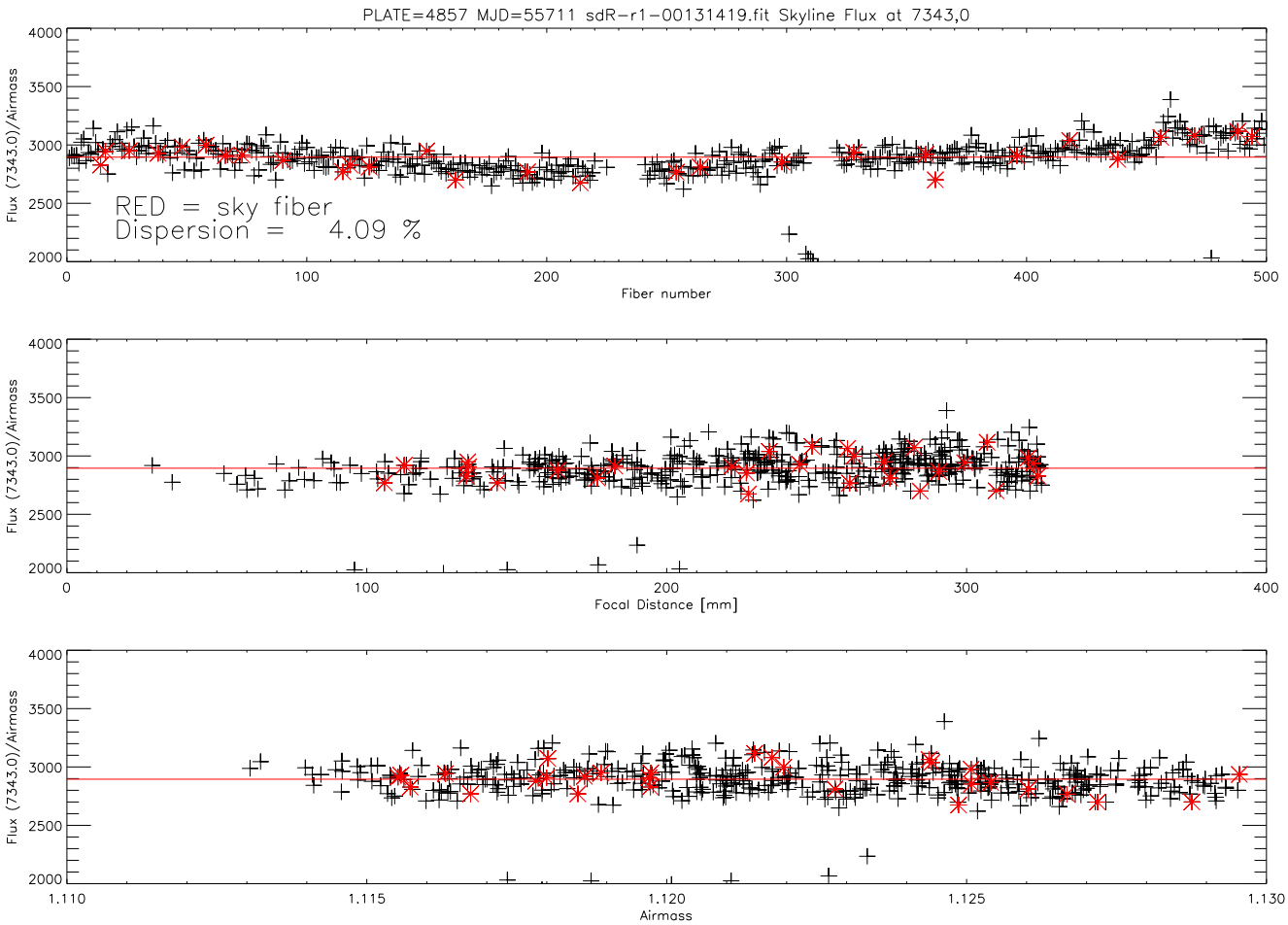

PLATE=4857 MJD=55711 sdR-r1-00131419.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

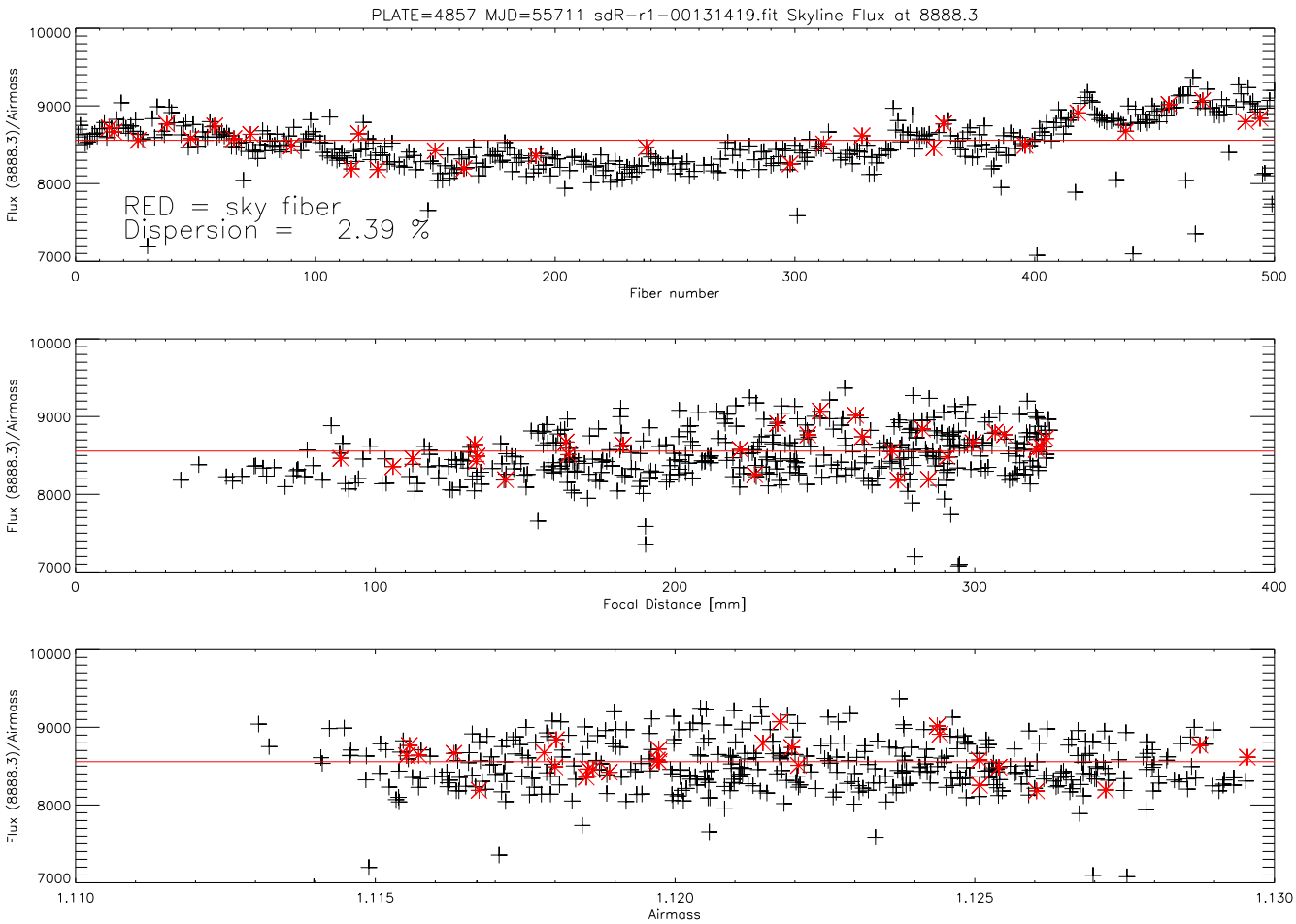

PLATE=4857 MJD=55711 sdR-r1-00131419.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]


PLATE=4857 MJD=55711 sdR-r1-00131419.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]

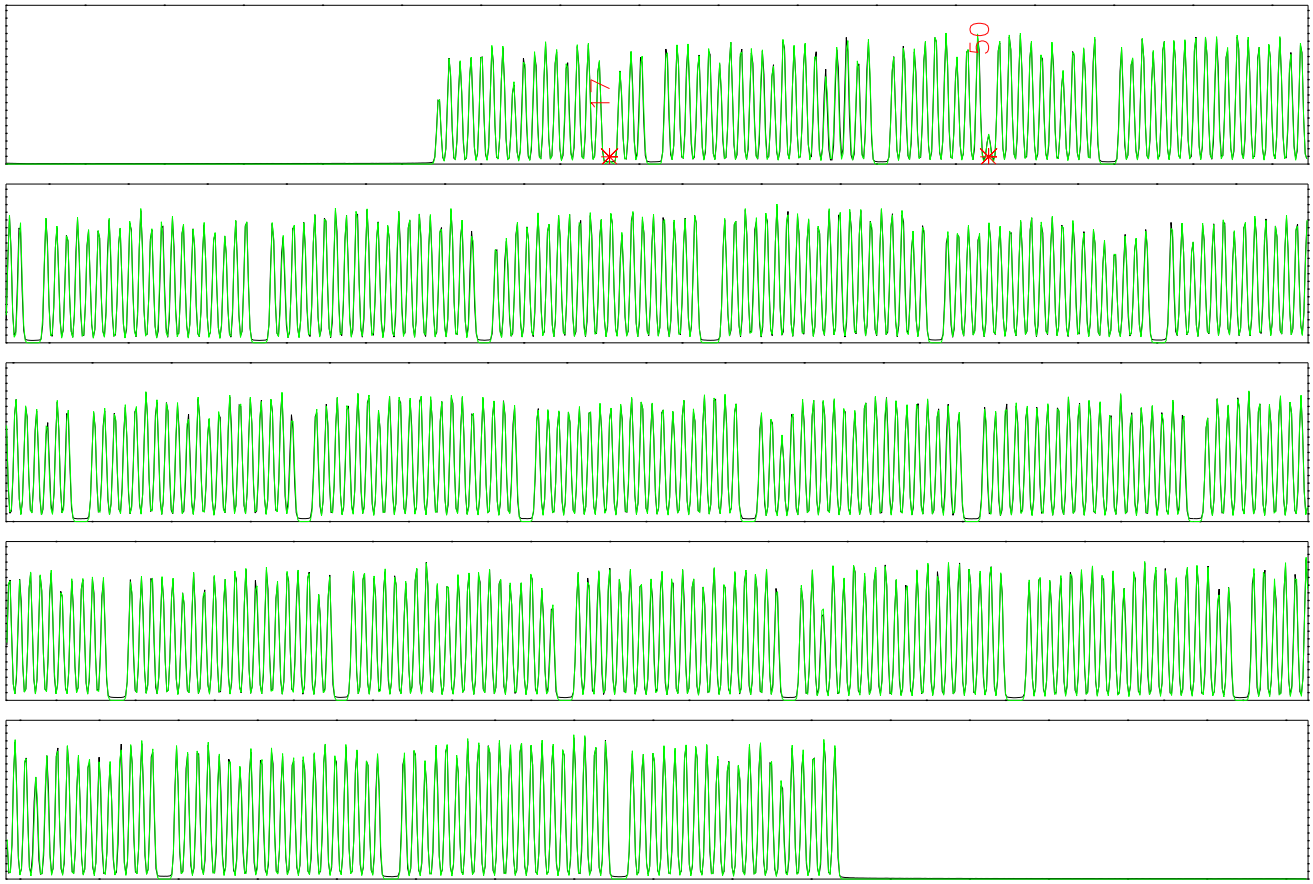
Number of sky fibers = 31

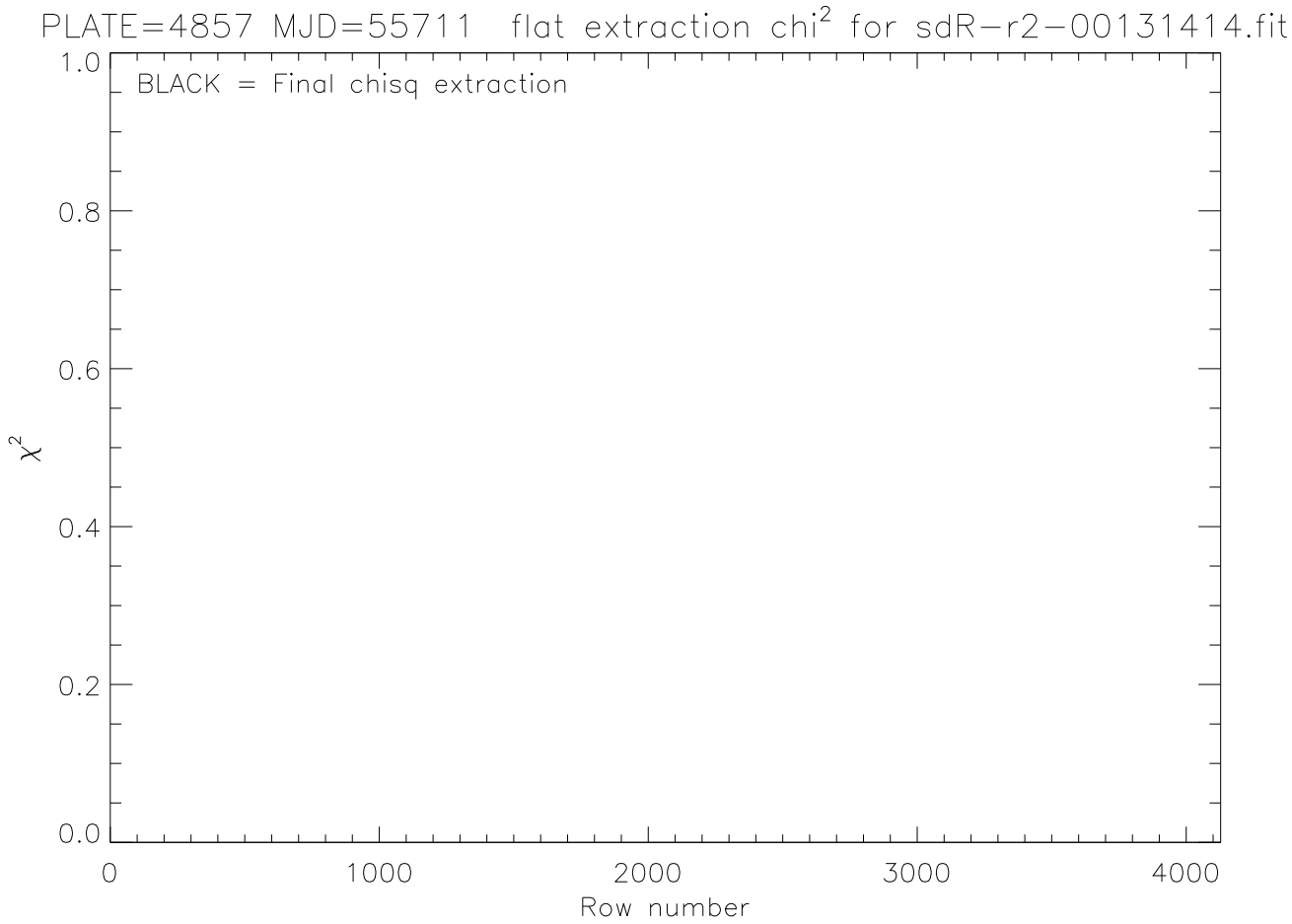


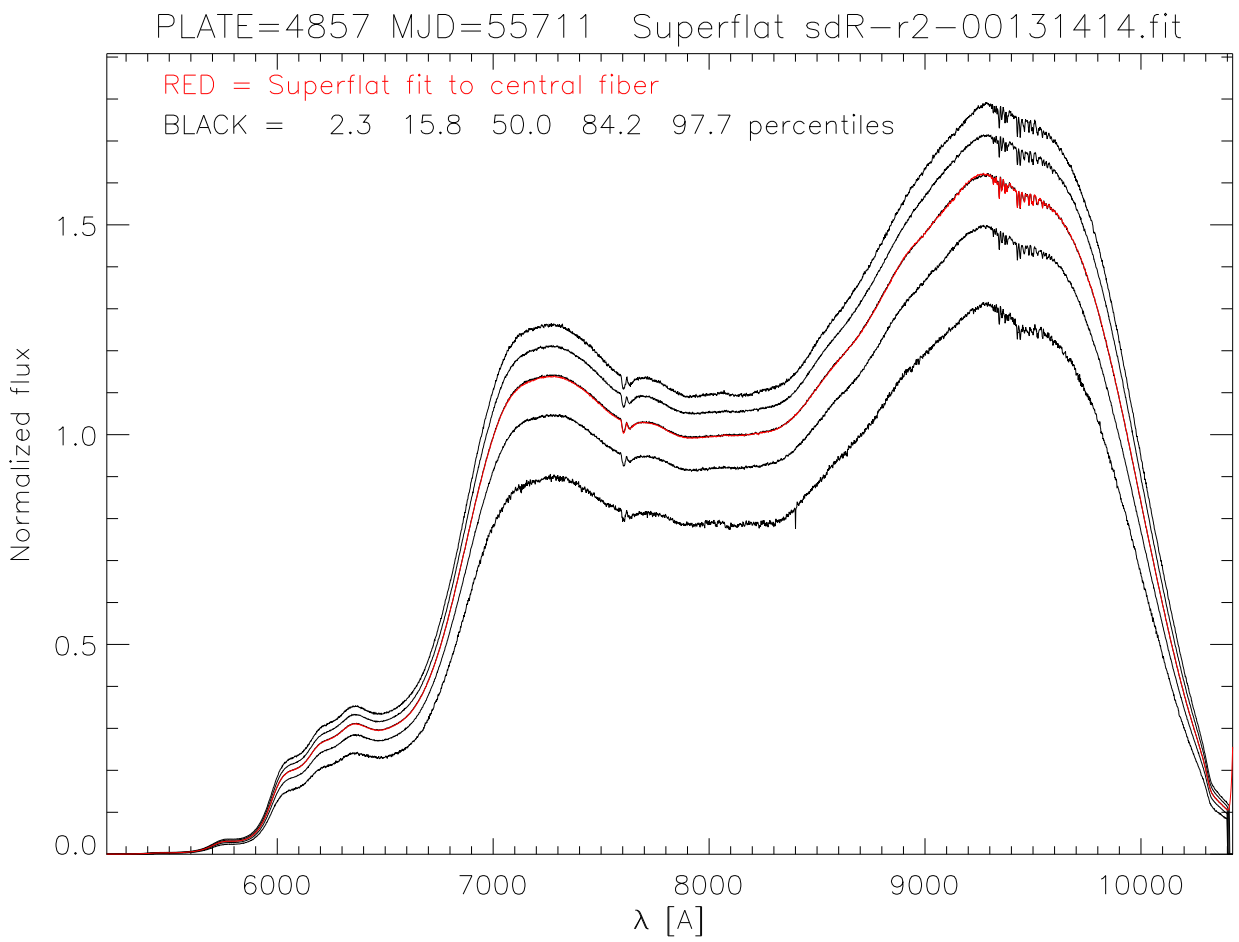

PLATE=4857 MJD=55711 sdR-r1-00131419.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 4.09 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

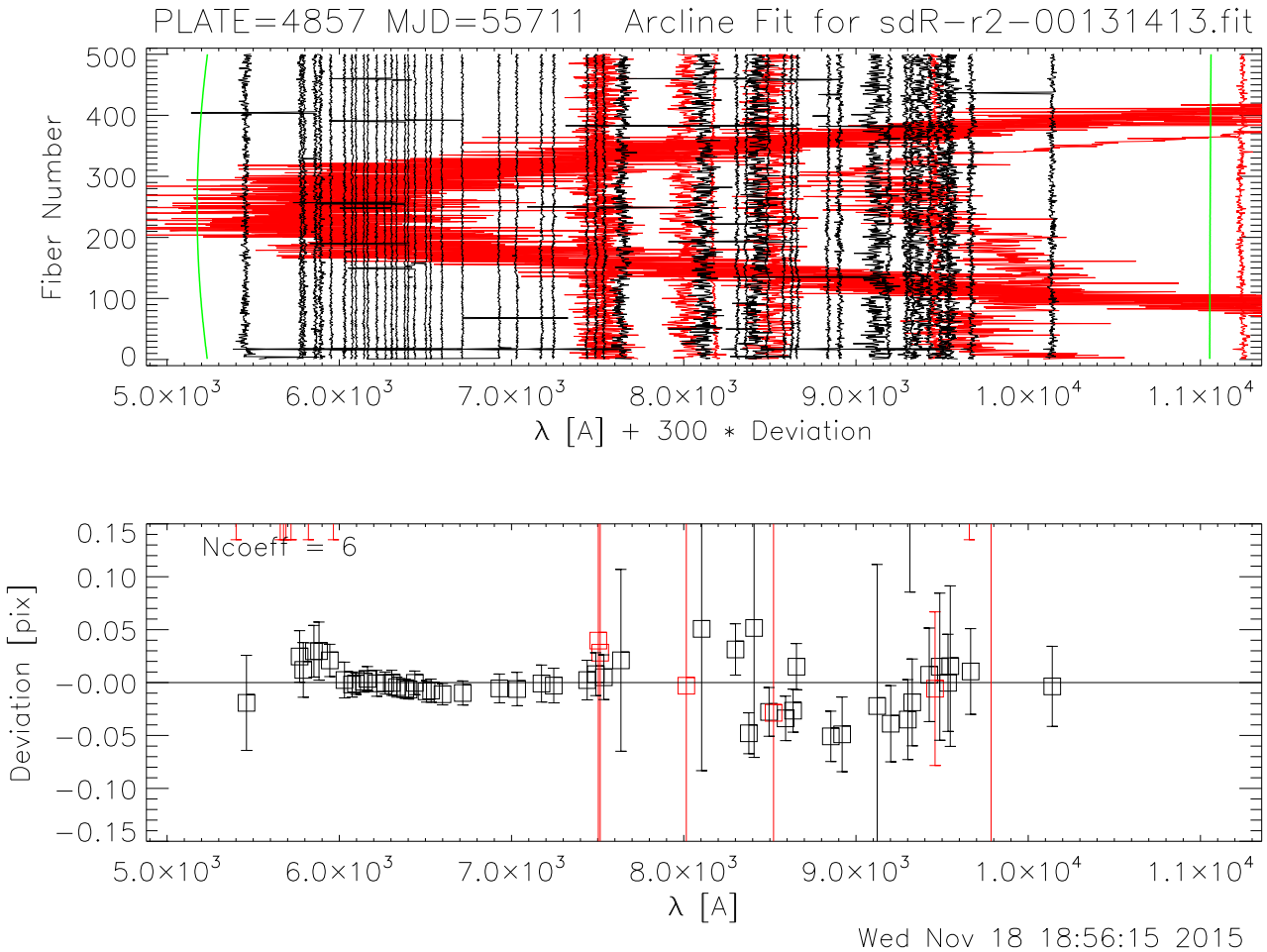

PLATE=4857 MJD=55711 sdR-r1-00131419.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.39 %
Fiber number
Focal Distance [mm]
Airmass

PLATE=4857 MJD=55711 Traces sdR-r2-00131414.fit

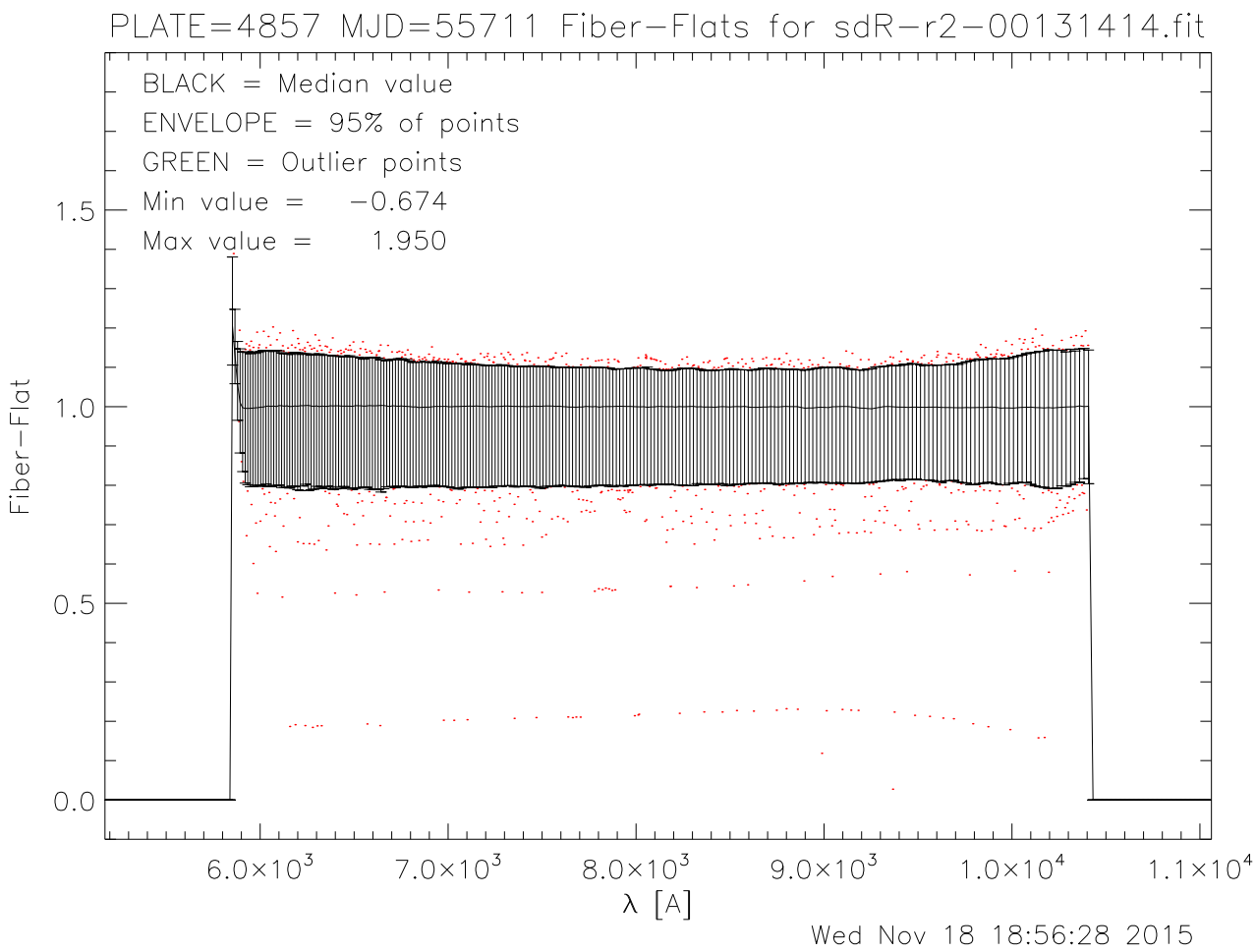


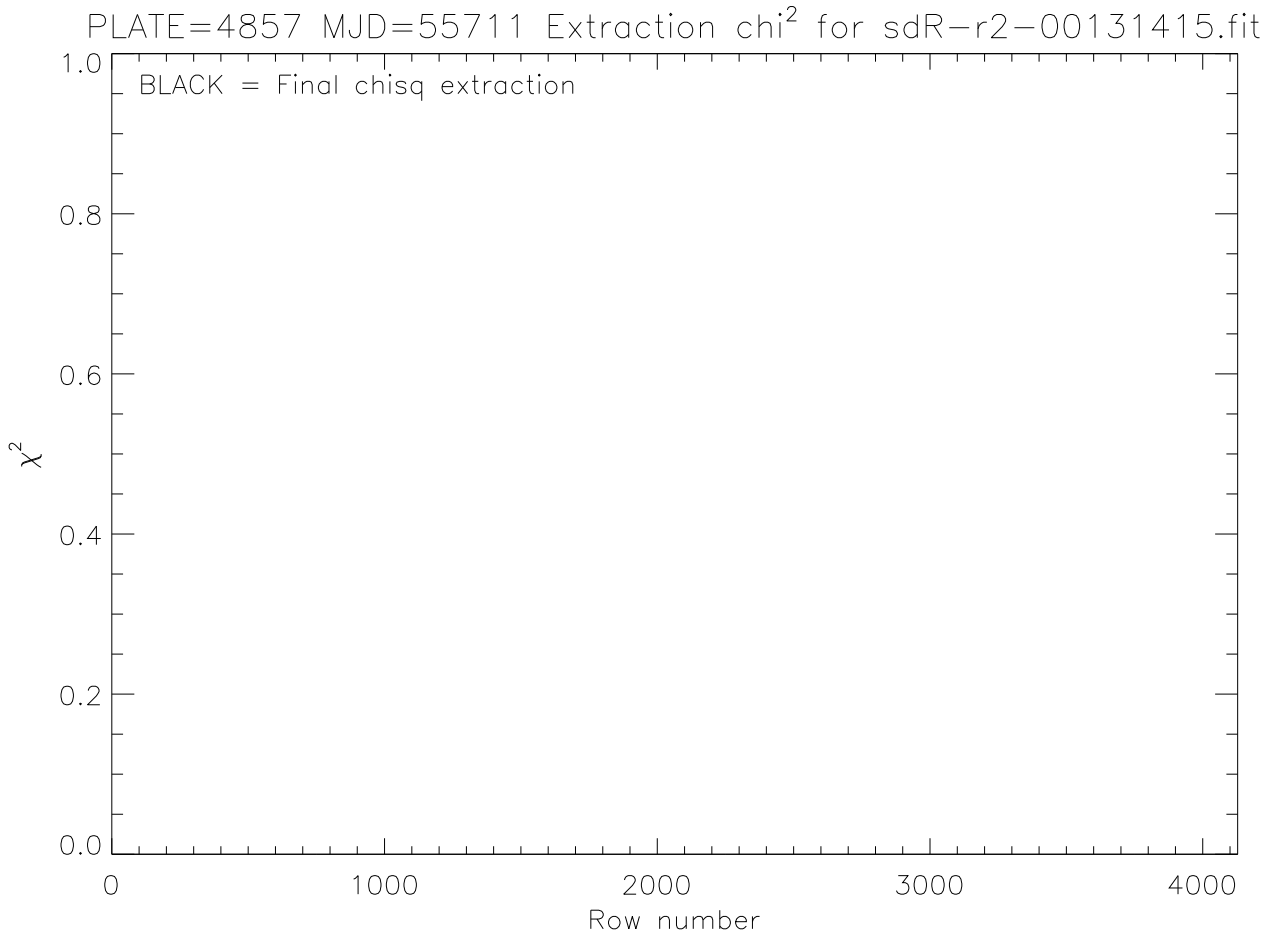

PLATE=4857 MJD=55711 flat extraction chi$^2$ for sdR-r2-00131414.fit
BLACK = Final chisq extraction
$\chi^2$
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number

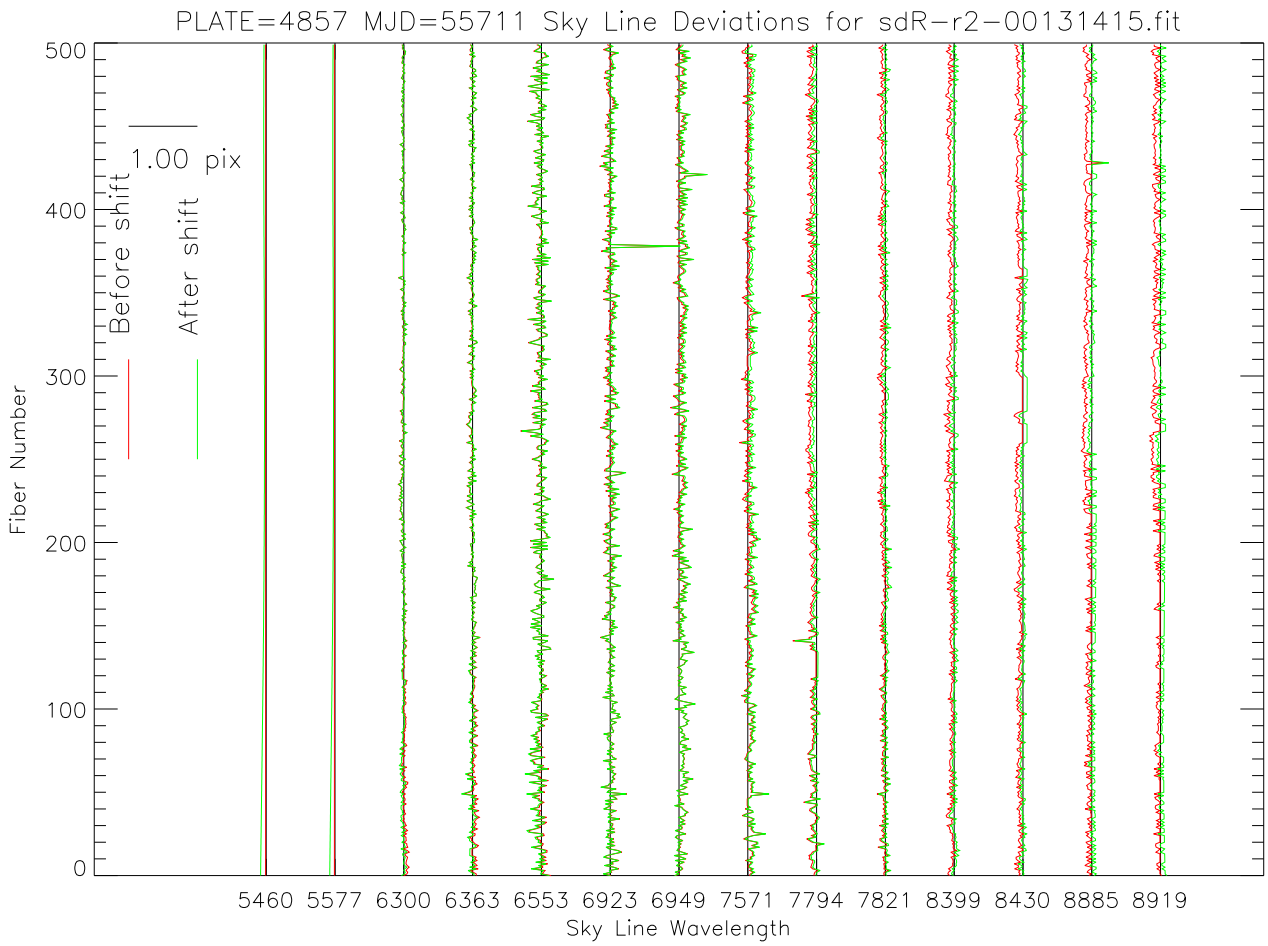

PLATE=4857 MJD=55711 Superflat sdR-r2-00131414.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
0.0
0.5
1.0
1.5
6000
7000
8000
9000
10000
λ [A]

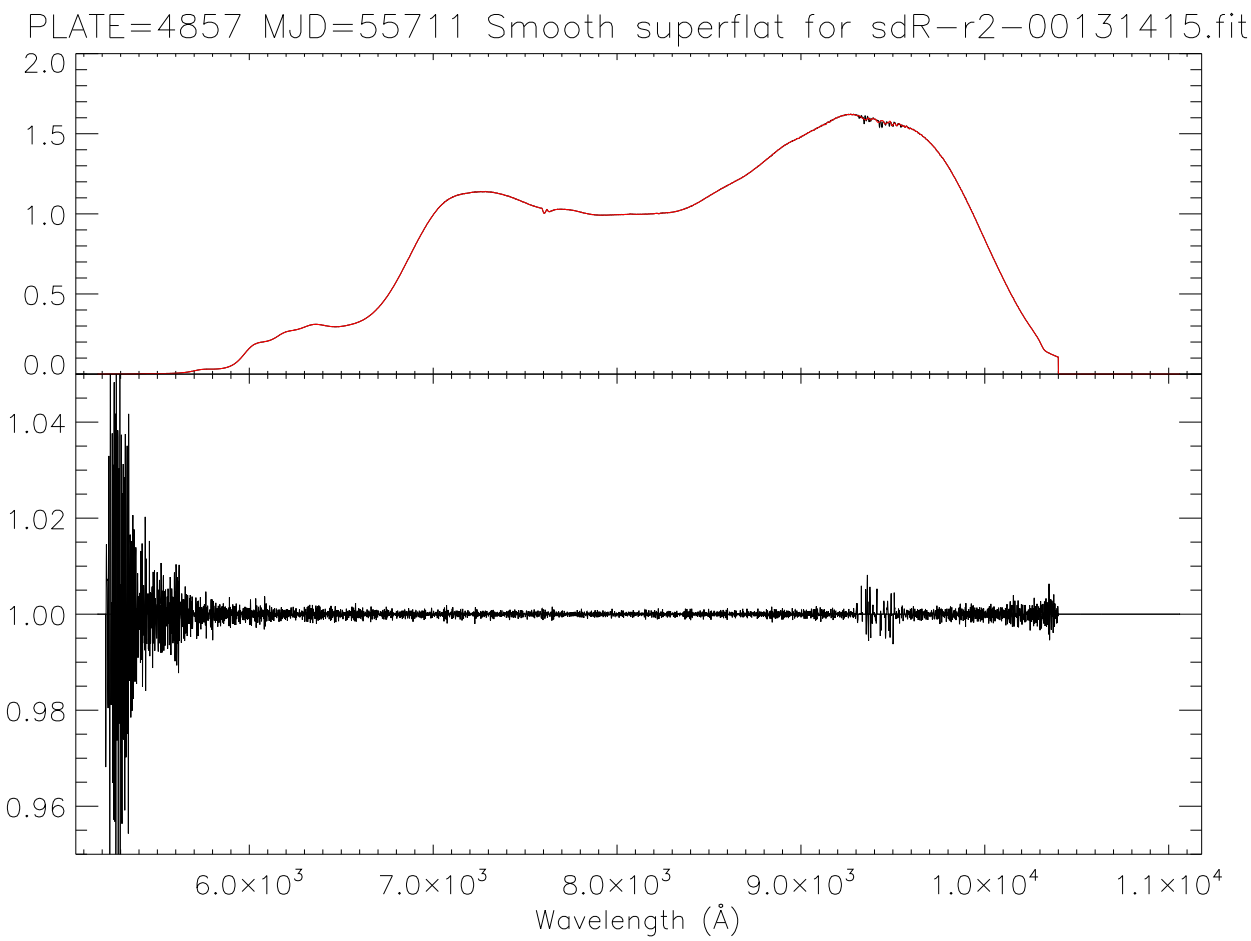

PLATE=4857 MJD=55711 Arcline Fit for sdR-r2-00131413.fit
Fiber Number
500
400
300
200
100
0
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A] + 300 * Deviation

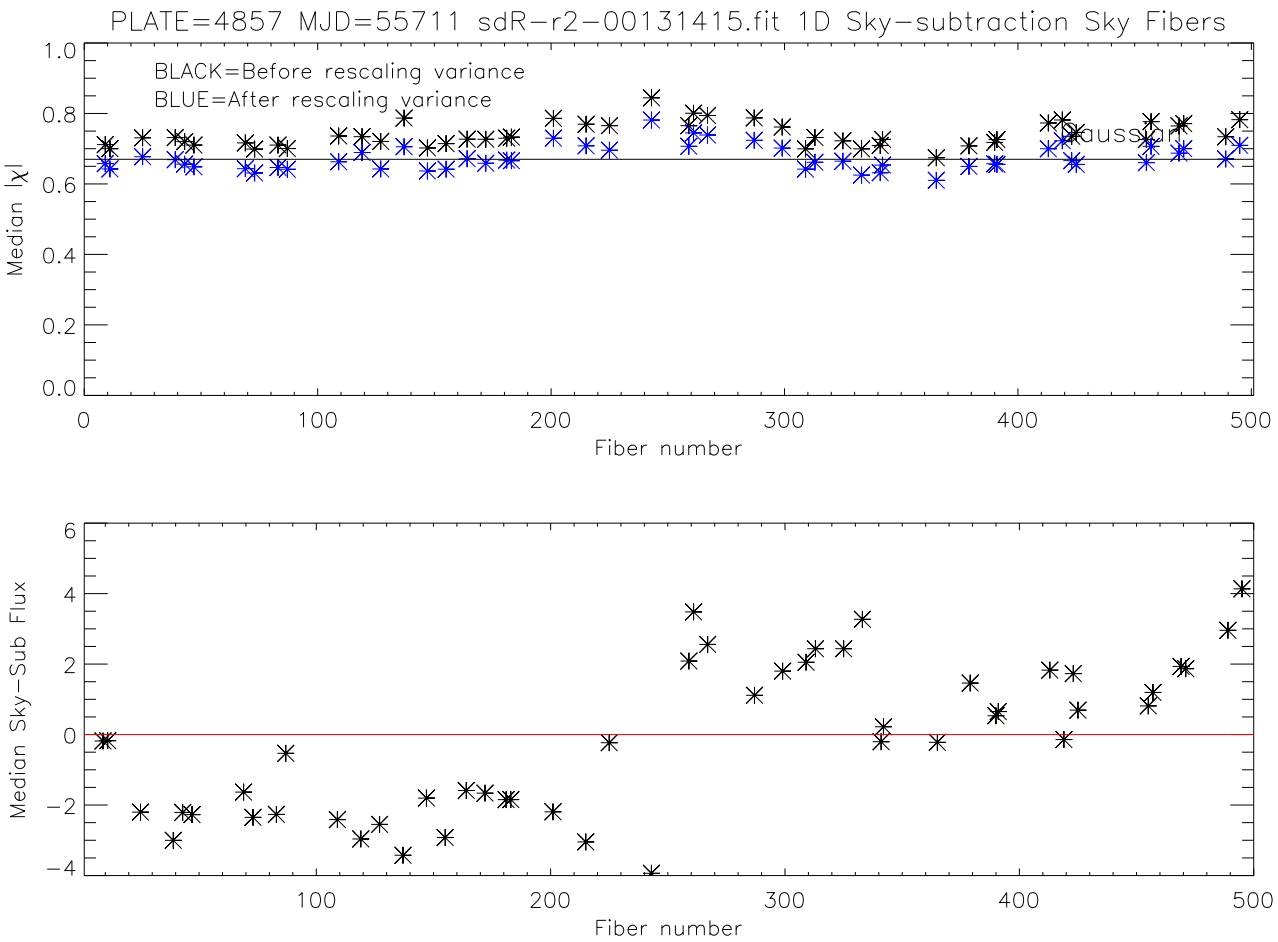

Ncoeff = 6
Deviation [pix]
0.15
0.10
0.05
−0.00
−0.05
−0.10
−0.15
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Wed Nov 18 18:56:15 2015

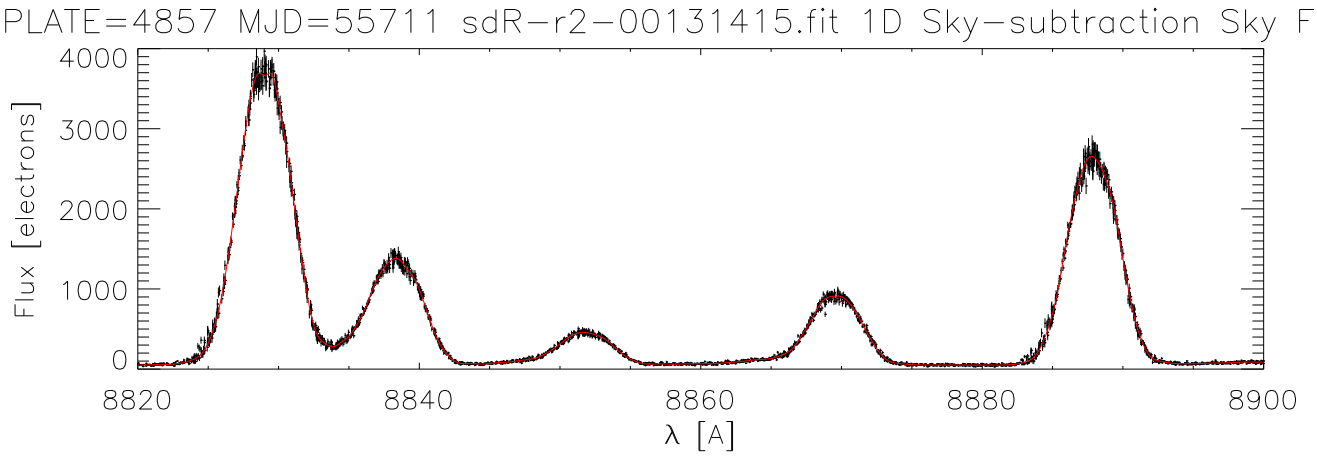

PLATE=4857 MJD=55711 Fiber−Flats for sdR−r2−00131414.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −0.674
Max value = 1.950
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Wed Nov 18 18:56:28 2015

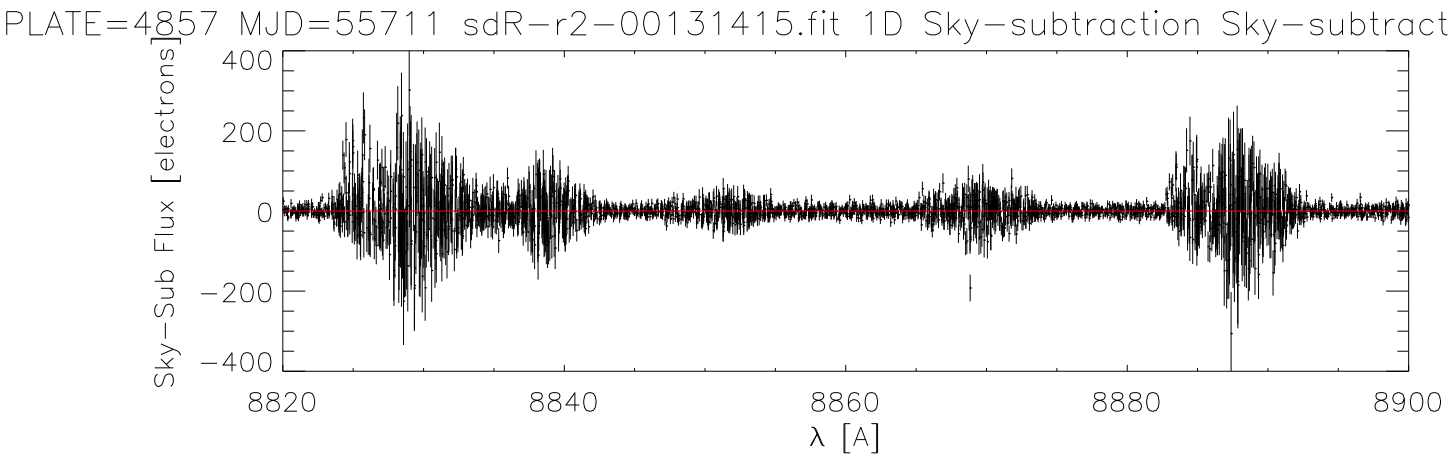

PLATE=4857 MJD=55711 Extraction chi$^2$ for sdR−r2−00131415.fit
BLACK = Final chisq extraction
$\chi^2$
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=4857 MJD=55711 Sky Line Deviations for sdR-r2-00131415.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

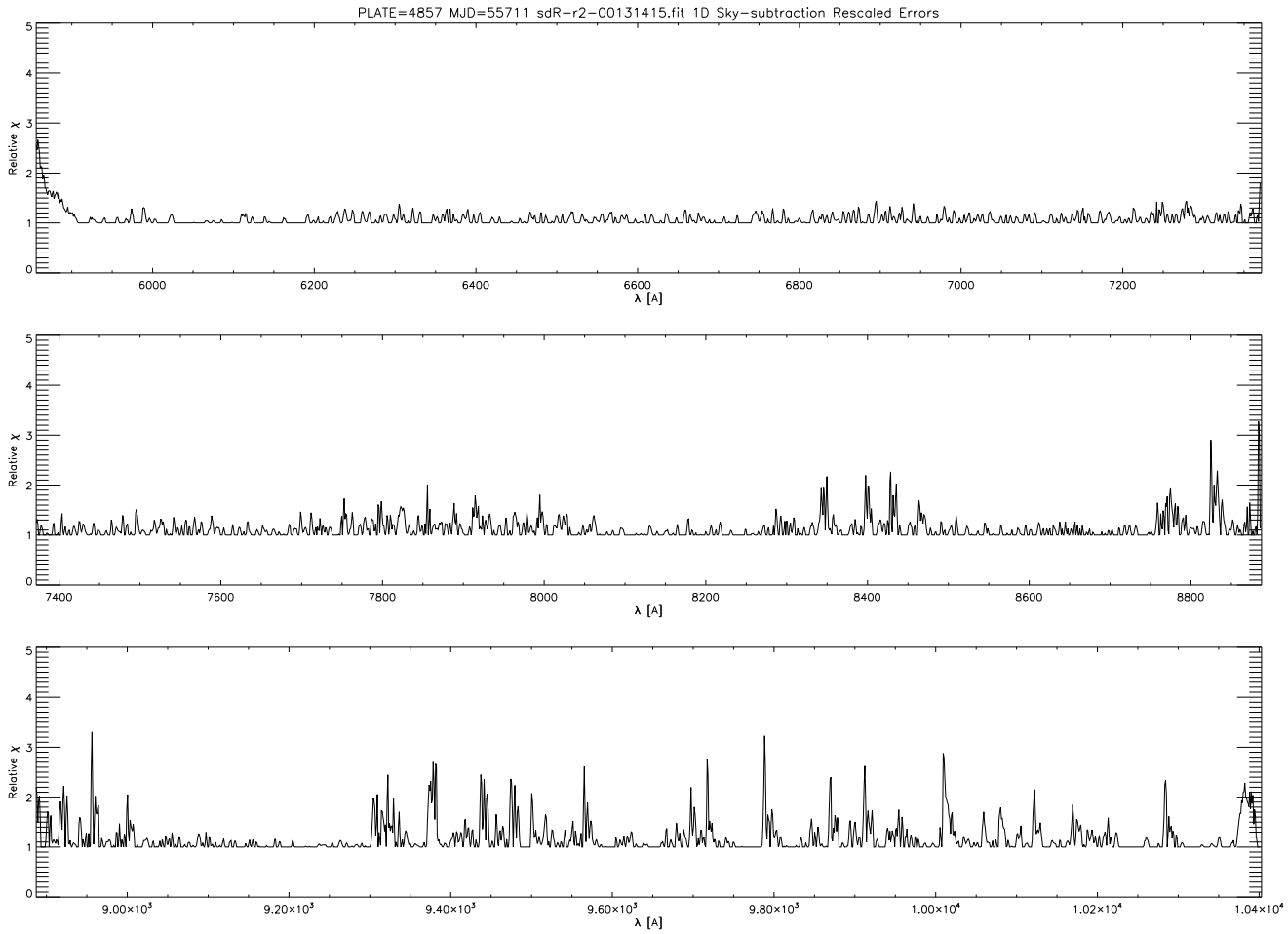

PLATE=4857 MJD=55711 Smooth superflat for sdR-r2-00131415.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

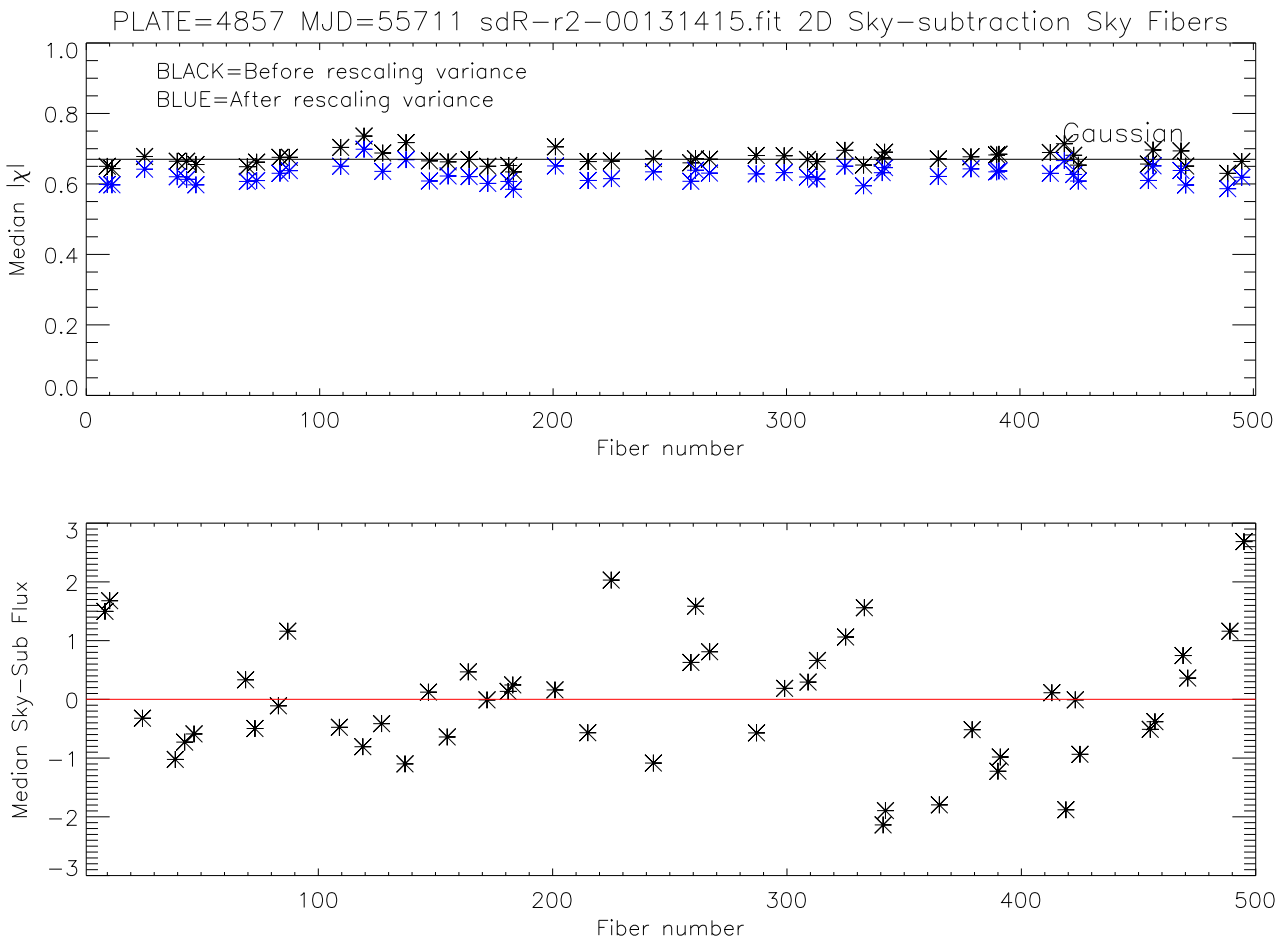

PLATE=4857 MJD=55711 sdR-r2-00131415.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

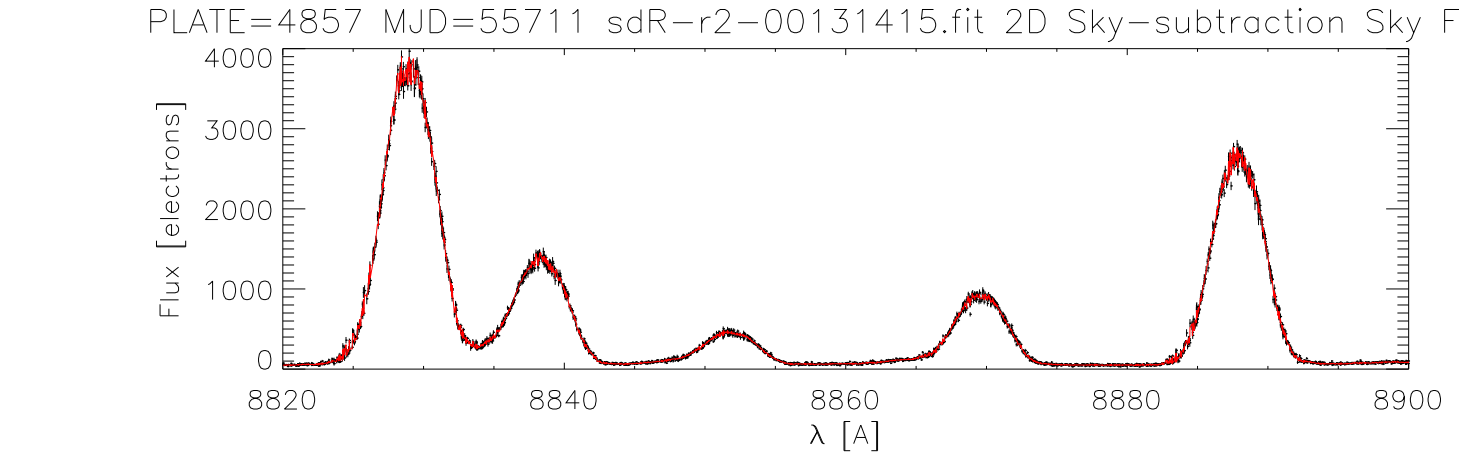

PLATE=4857 MJD=55711 sdR-r2-00131415.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

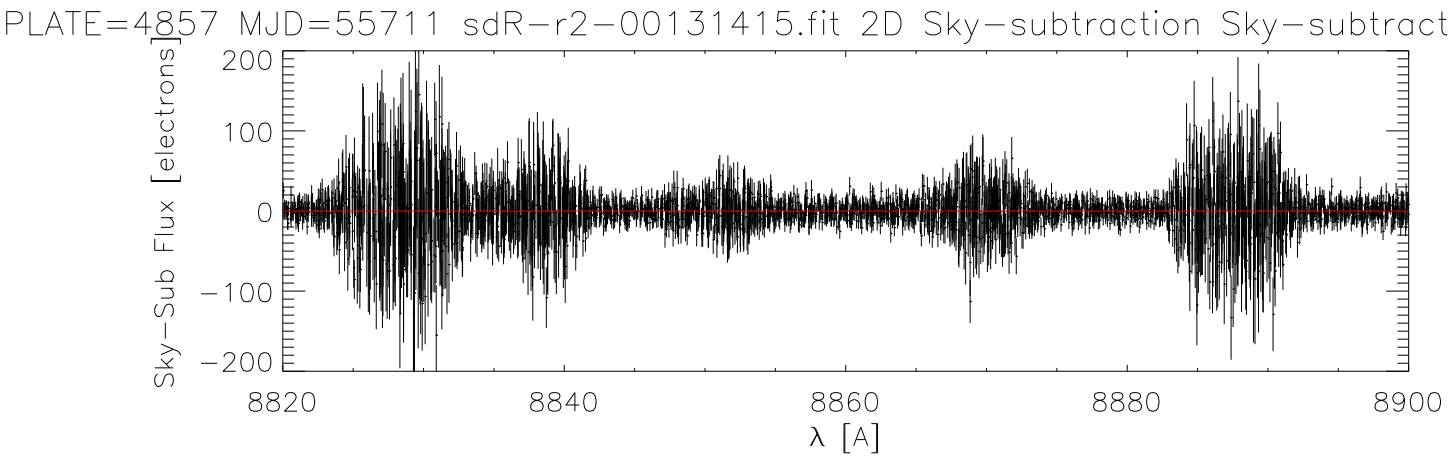

PLATE=4857 MJD=55711 sdR-r2-00131415.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 49

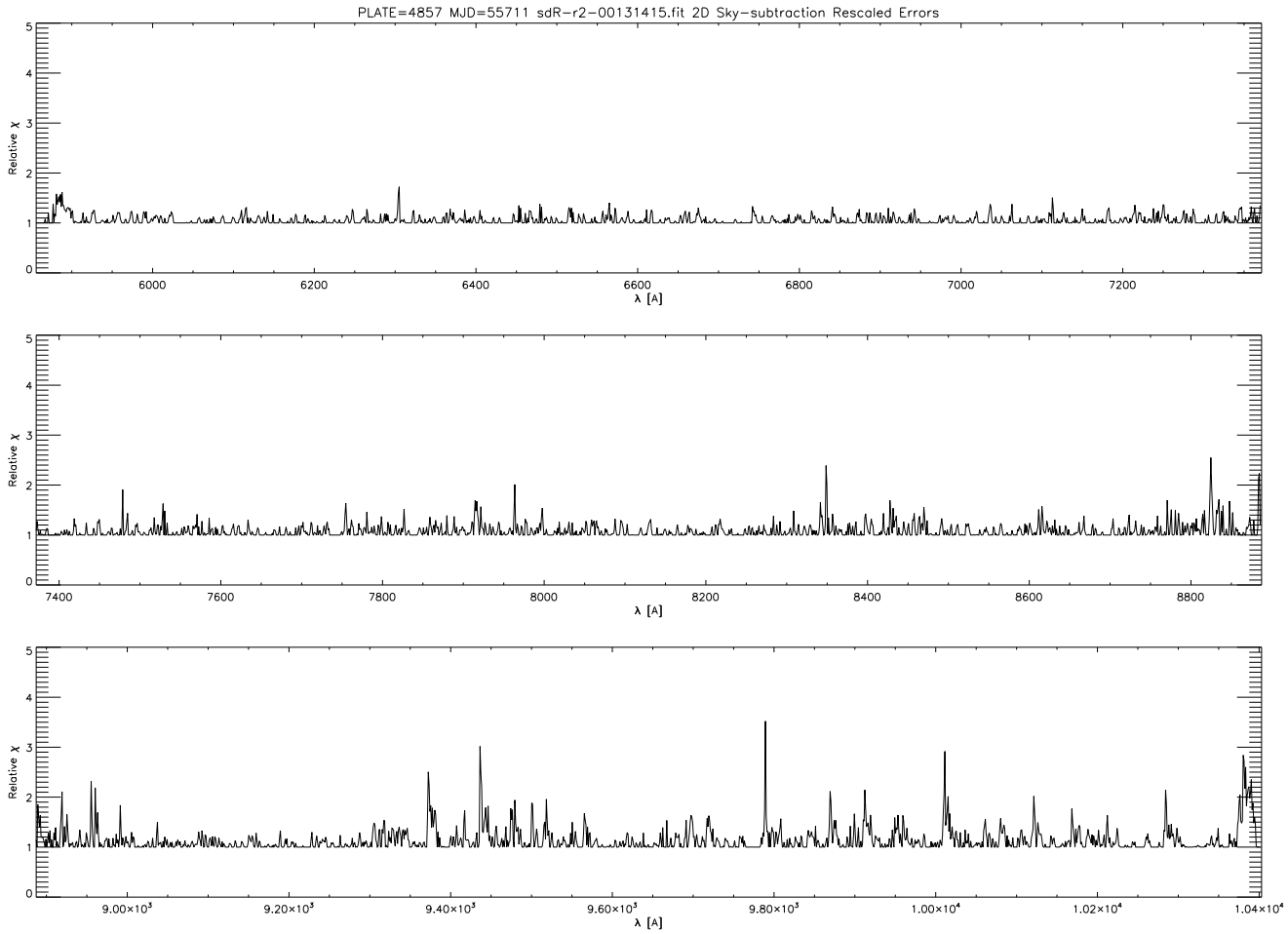


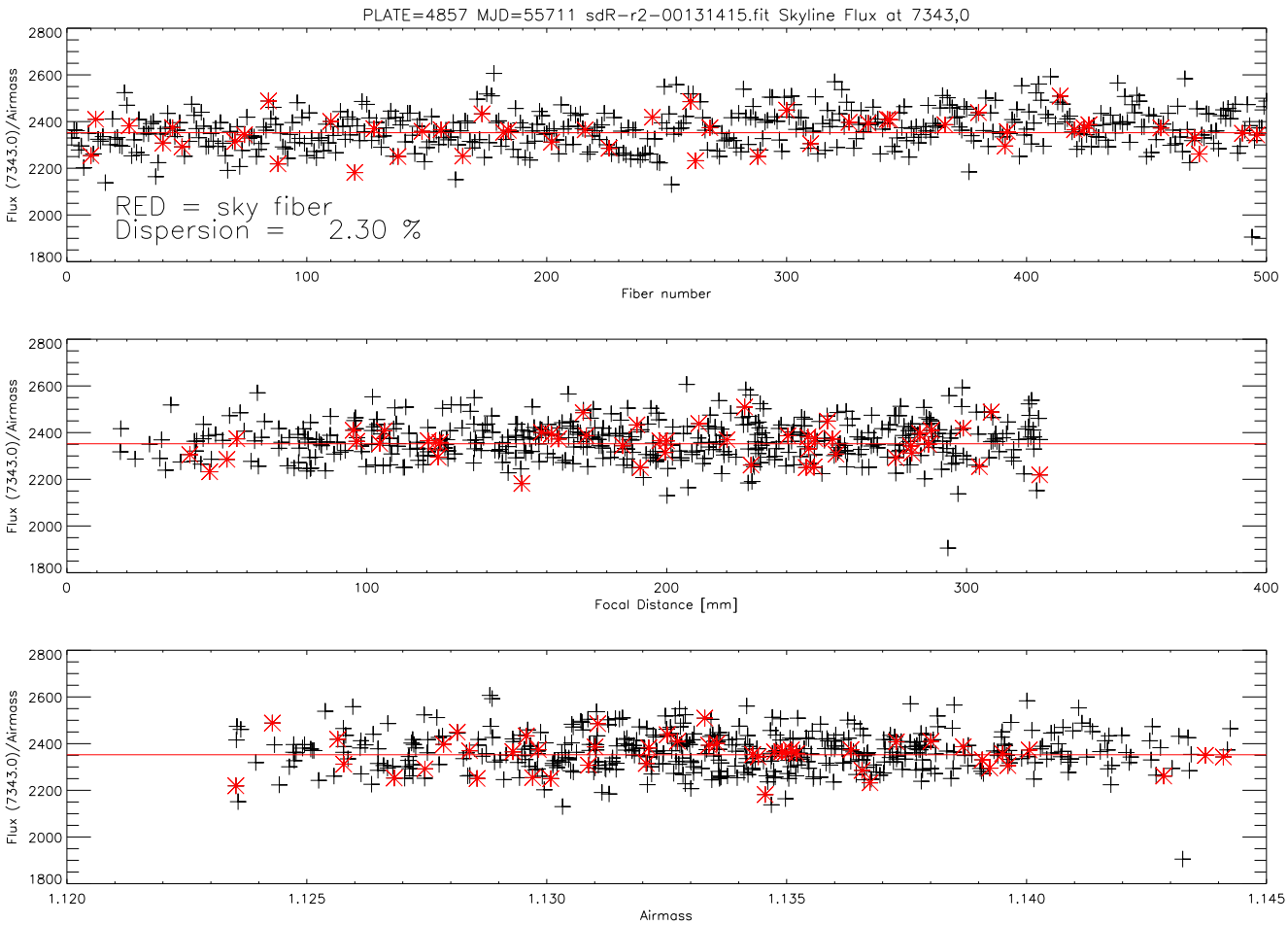

PLATE=4857 MJD=55711 sdR-r2-00131415.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

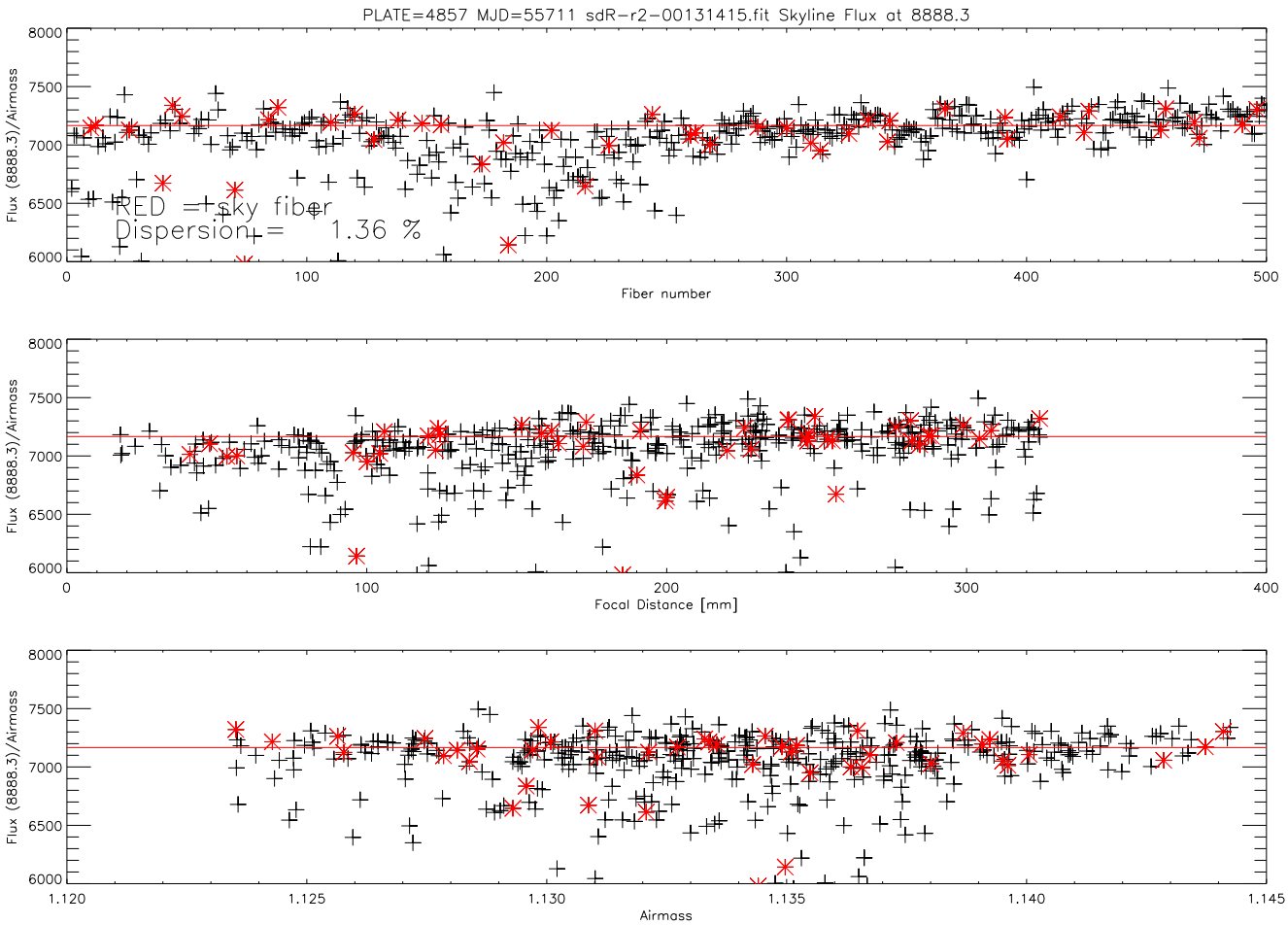

PLATE=4857 MJD=55711 sdR-r2-00131415.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

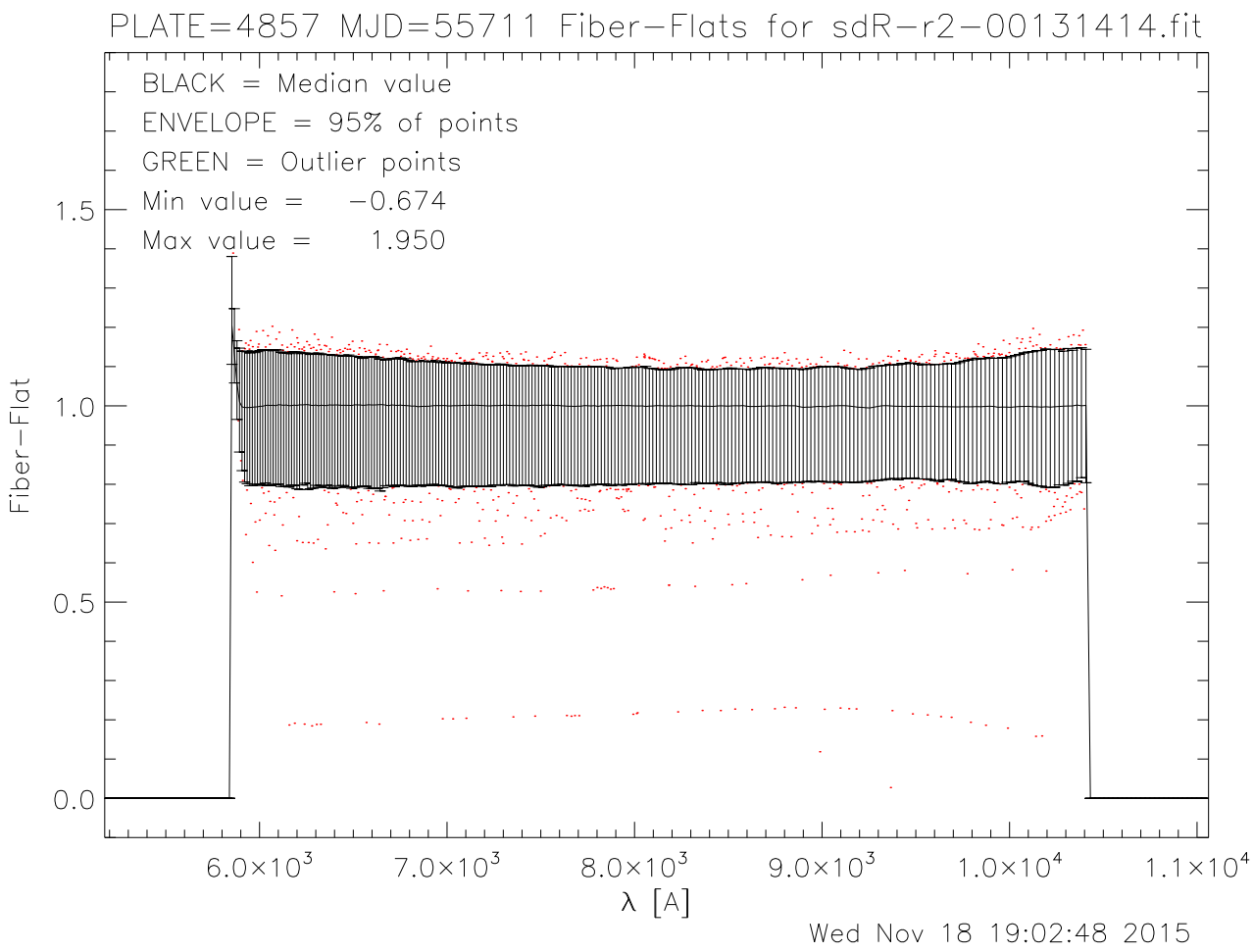

PLATE=4857 MJD=55711 sdR-r2-00131415.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

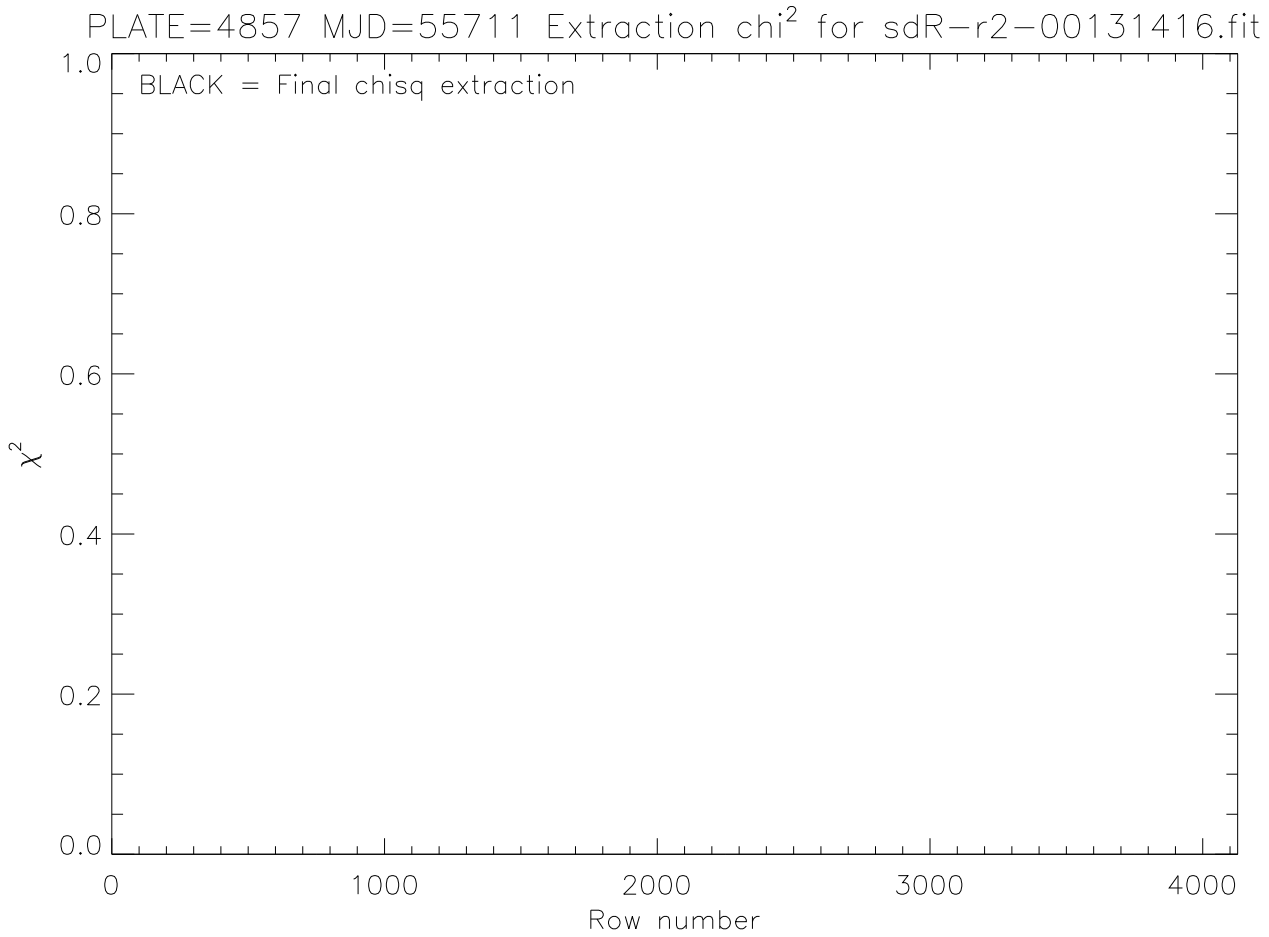
Number of sky fibers = 49

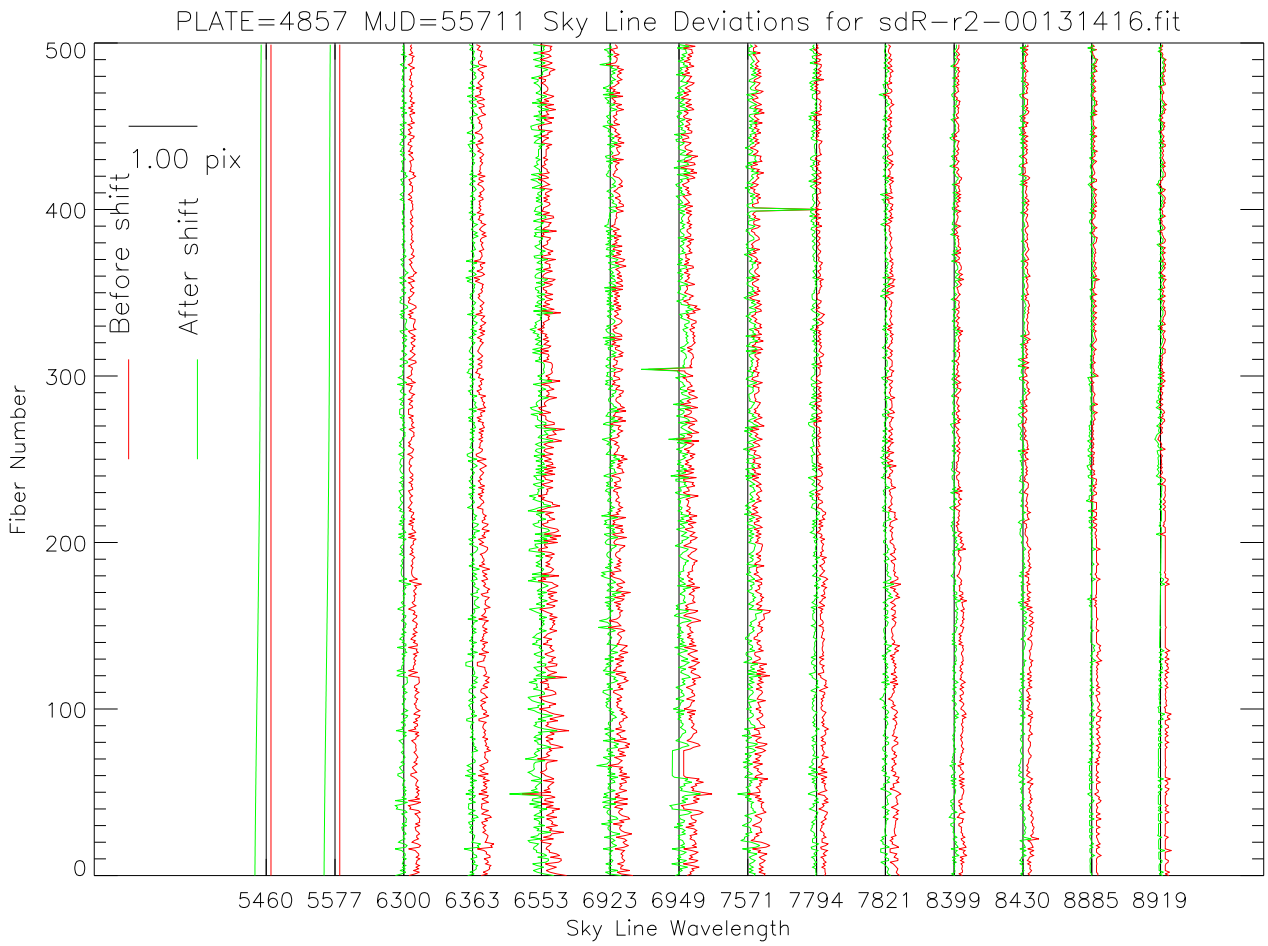


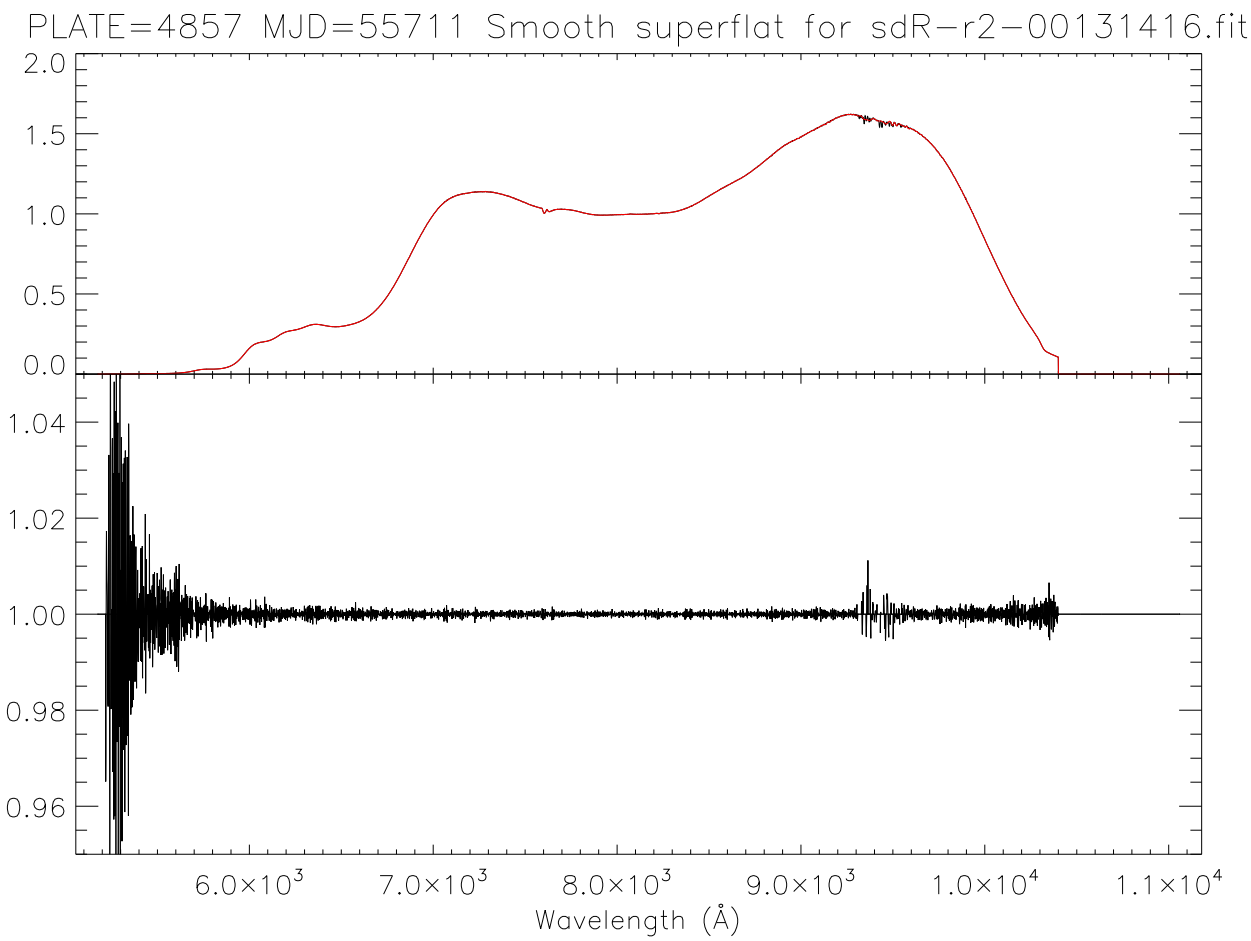

PLATE=4857 MJD=55711 sdR-r2-00131415.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.30 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

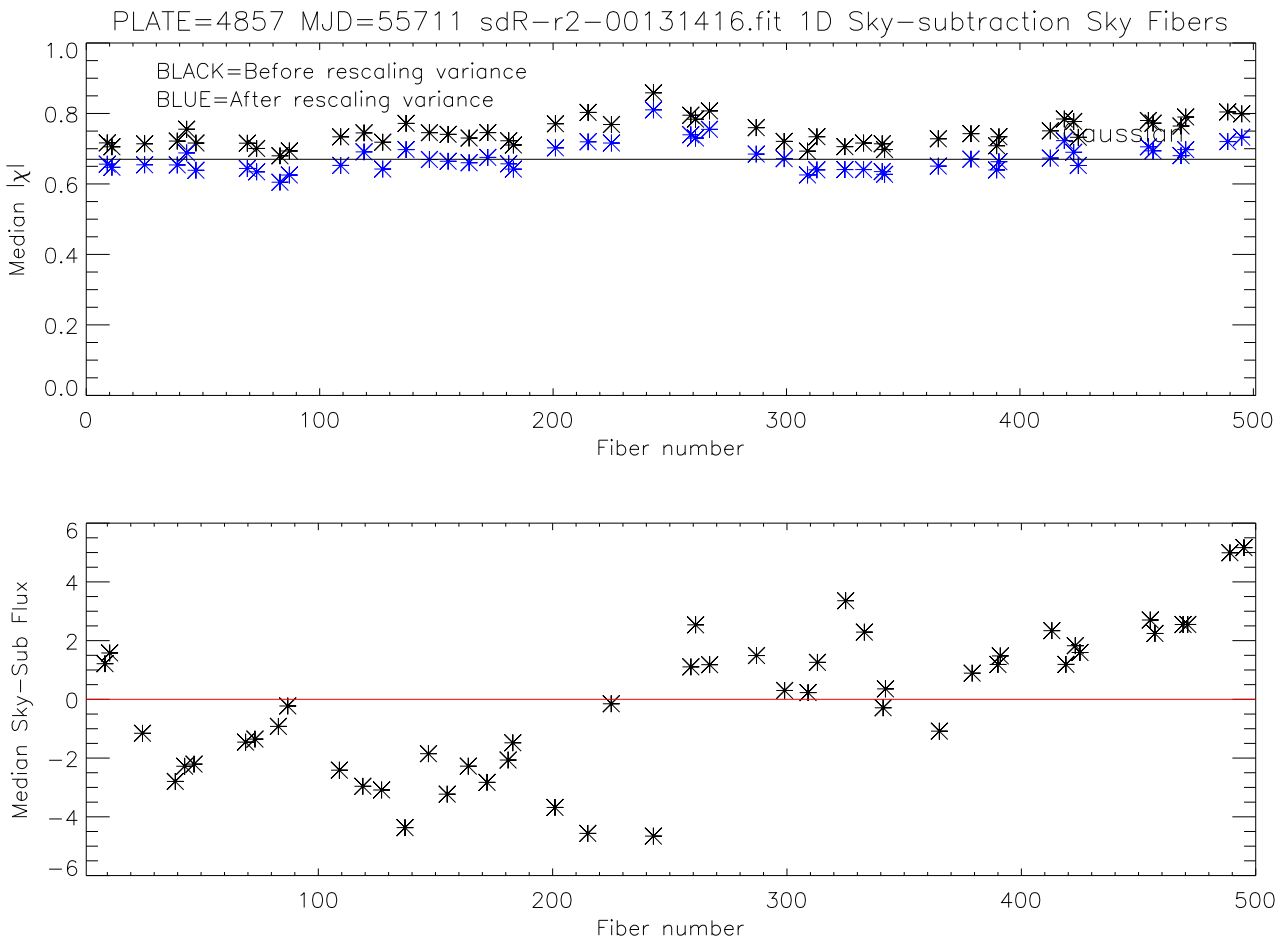

PLATE=4857 MJD=55711 sdR-r2-00131415.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.36 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

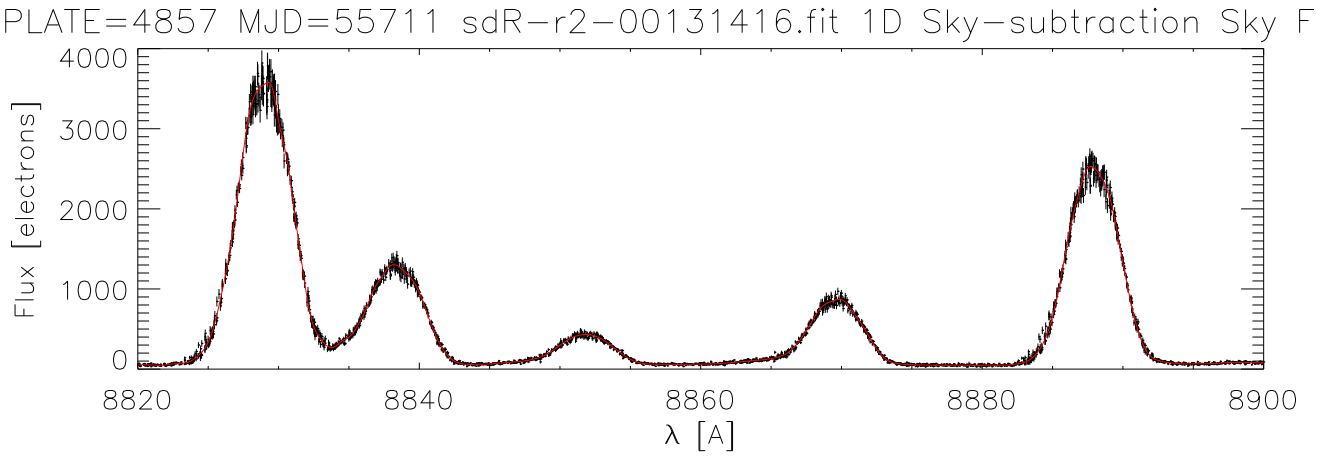

PLATE=4857 MJD=55711 Fiber−Flats for sdR−r2−00131414.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −0.674
Max value = 1.950
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Wed Nov 18 19:02:48 2015

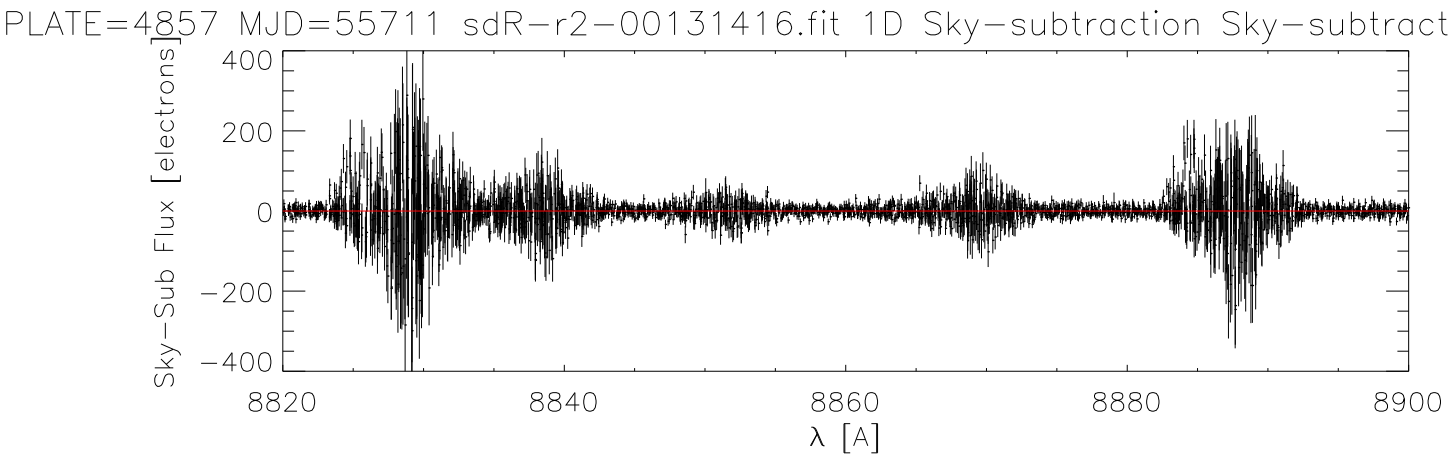

PLATE=4857 MJD=55711 Extraction chi$^2$ for sdR−r2−00131416.fit
BLACK = Final chisq extraction
$\chi^2$
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=4857 MJD=55711 Sky Line Deviations for sdR-r2-00131416.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

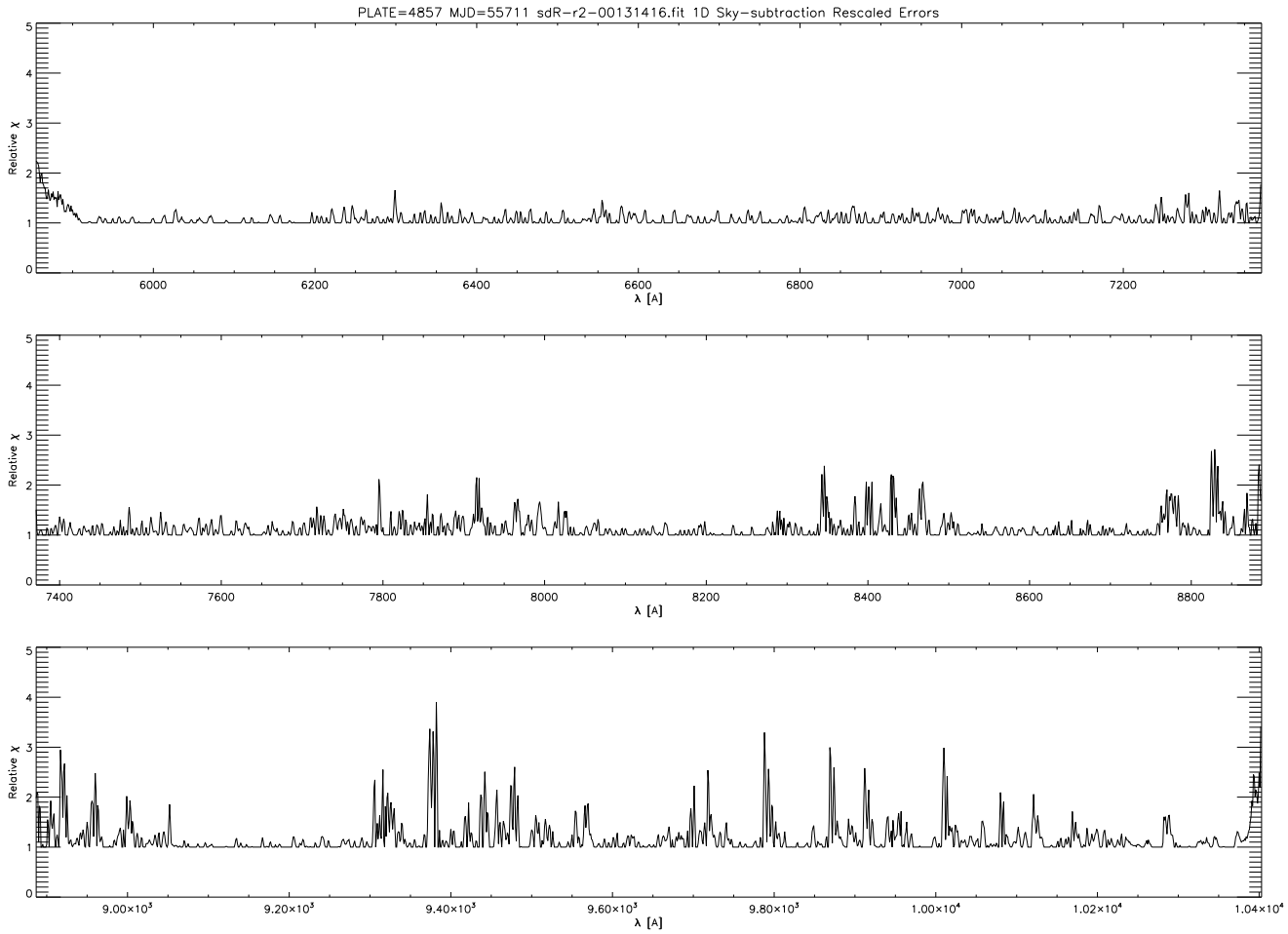

PLATE=4857 MJD=55711 Smooth superflat for sdR-r2-00131416.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

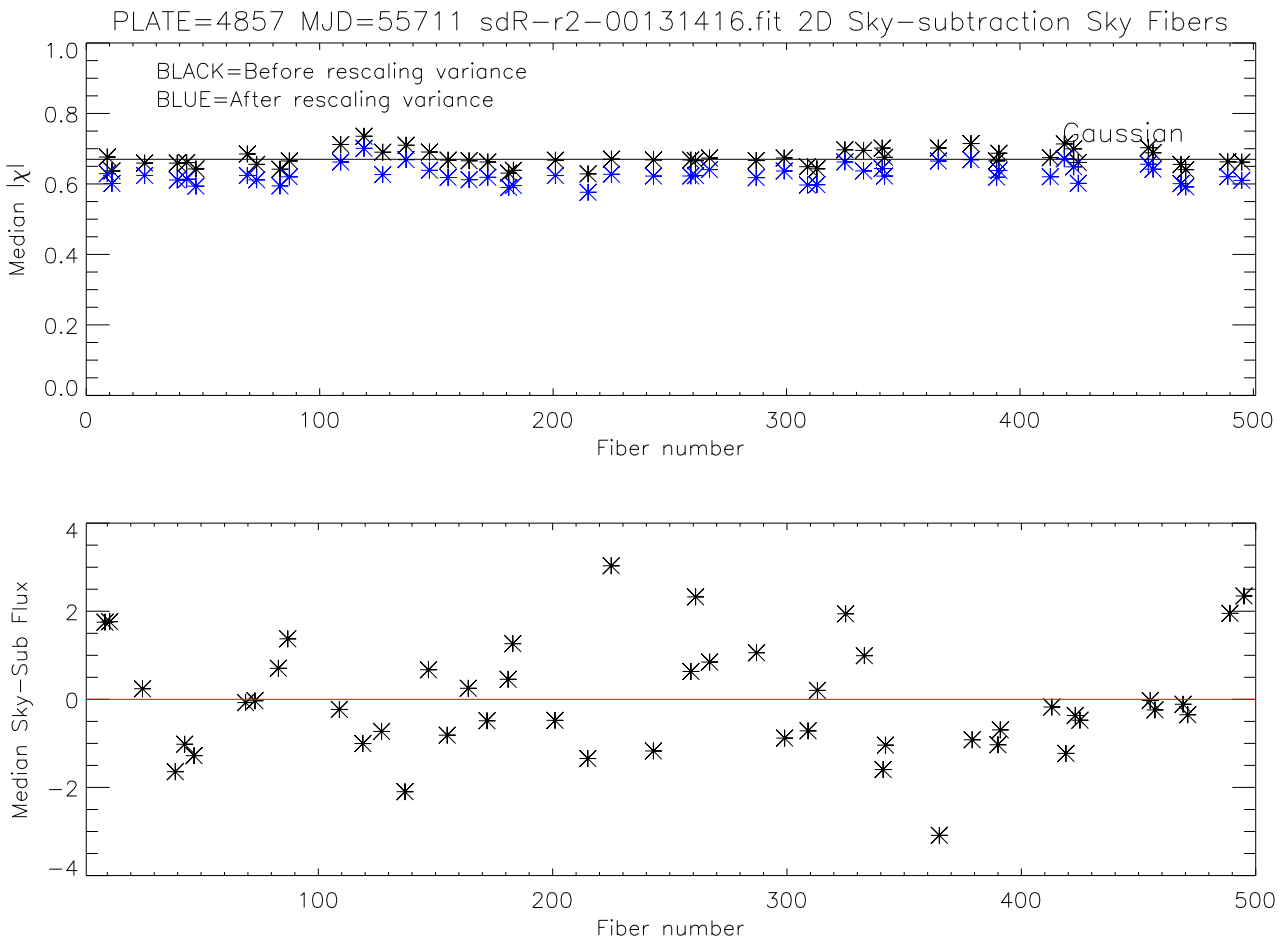

PLATE=4857 MJD=55711 sdR-r2-00131416.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

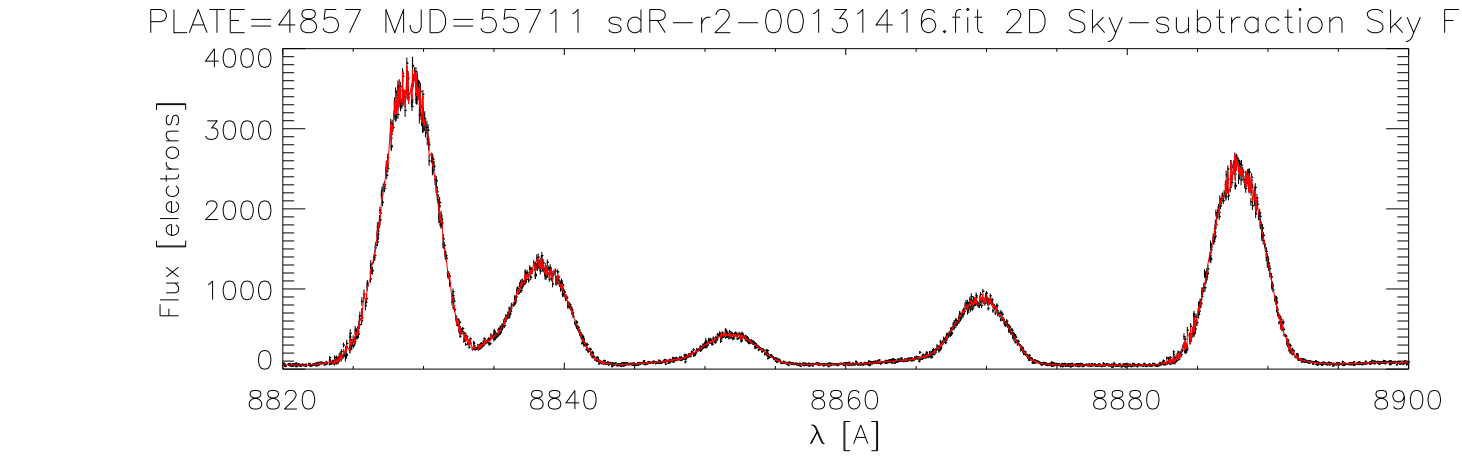

PLATE=4857 MJD=55711 sdR-r2-00131416.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

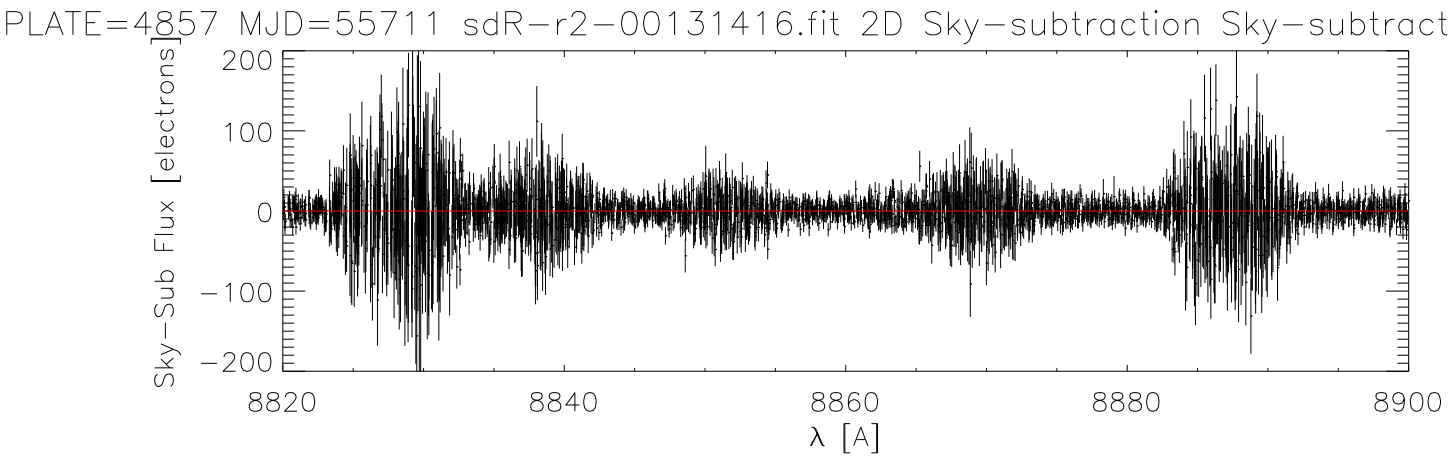

PLATE=4857 MJD=55711 sdR-r2-00131416.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 49

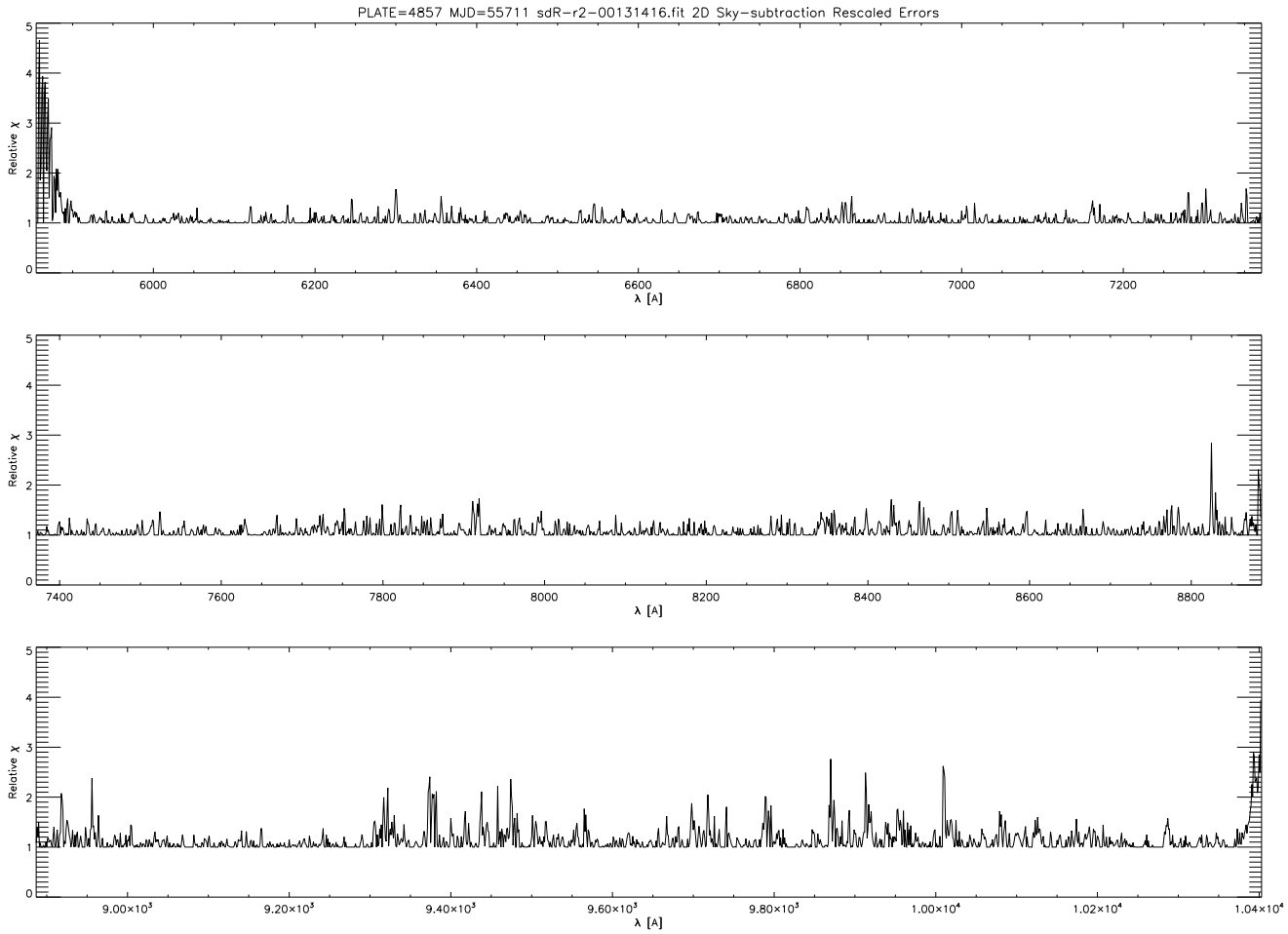


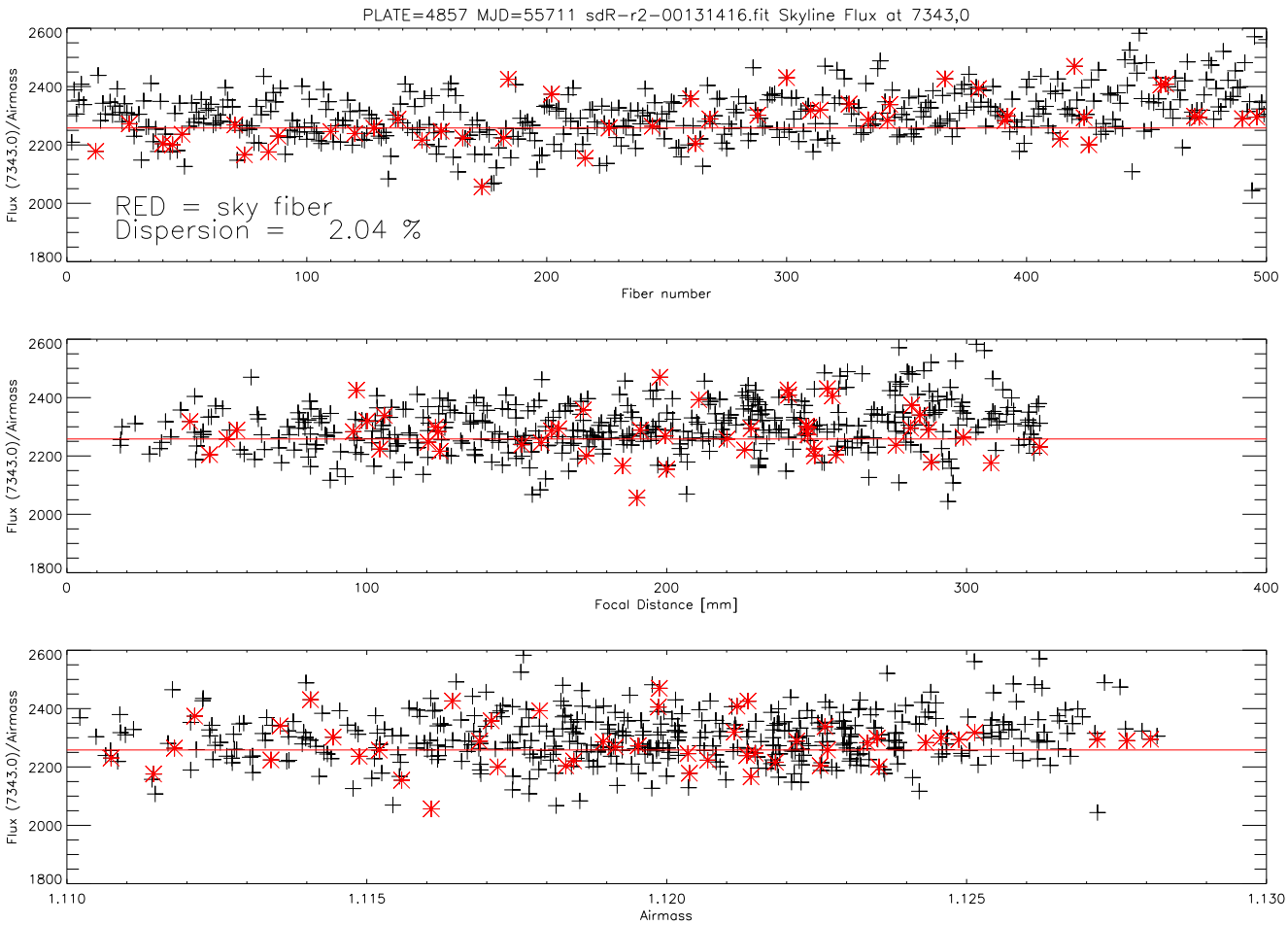

PLATE=4857 MJD=55711 sdR-r2-00131416.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

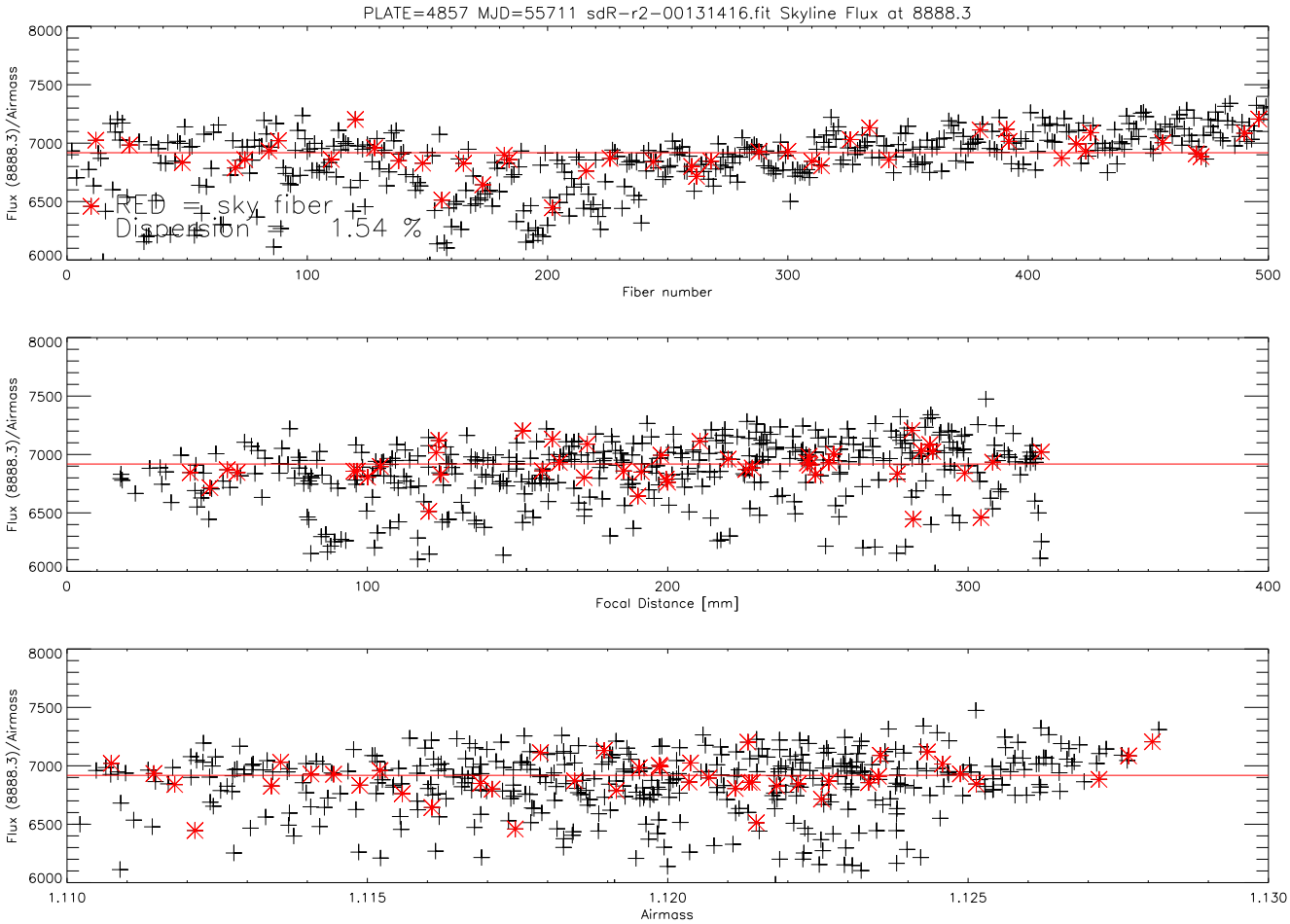

PLATE=4857 MJD=55711 sdR-r2-00131416.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

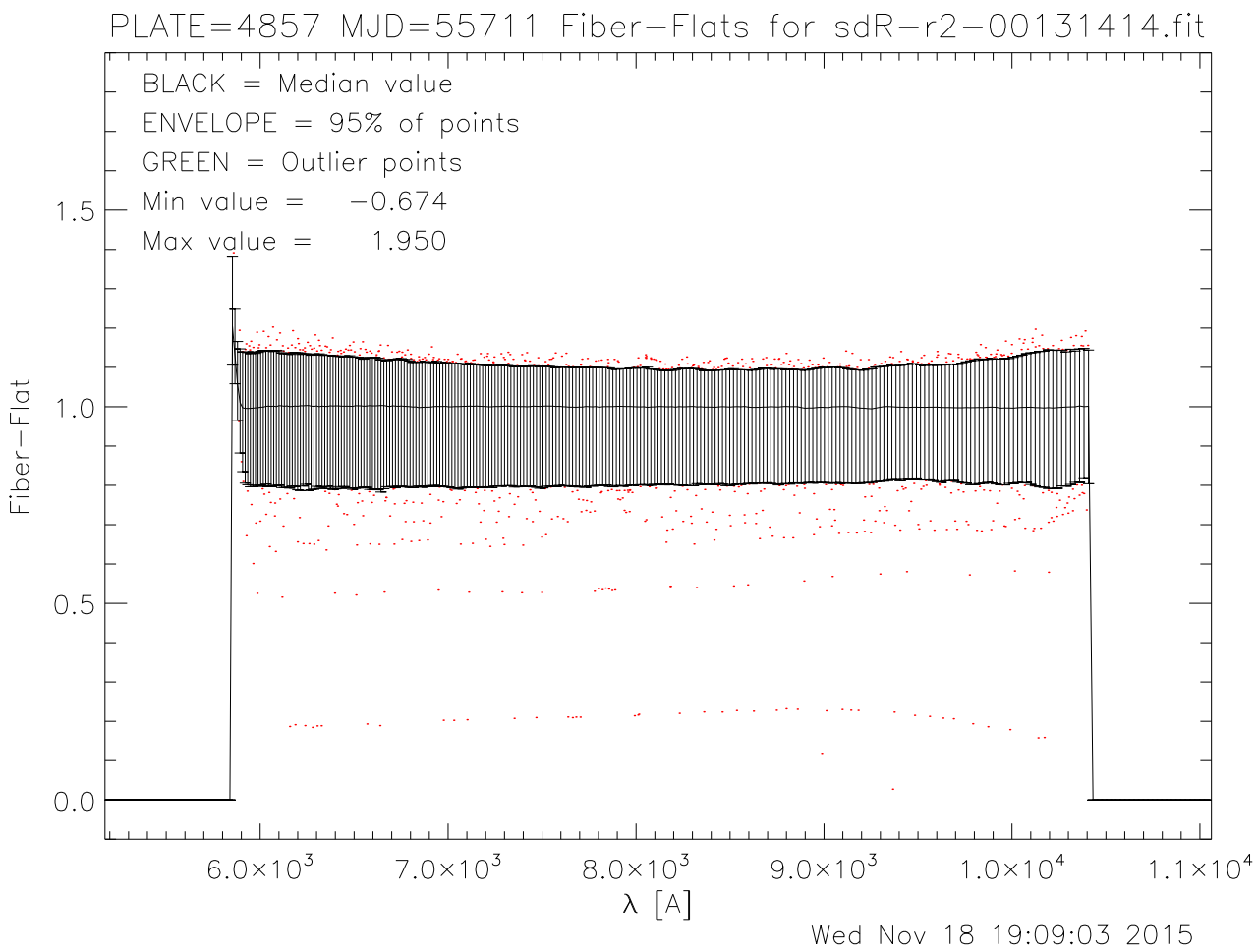

PLATE=4857 MJD=55711 sdR-r2-00131416.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

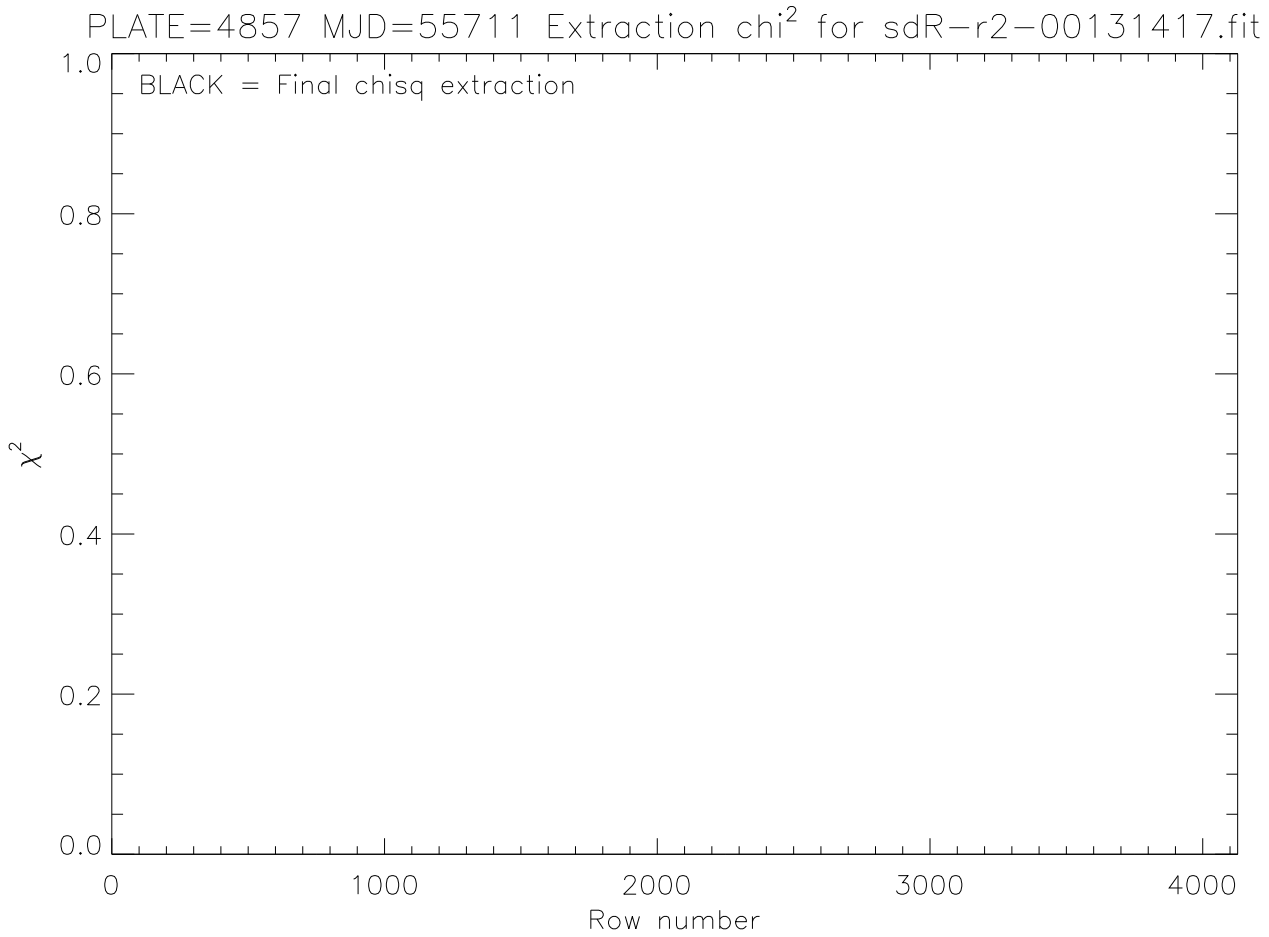
Number of sky fibers = 49

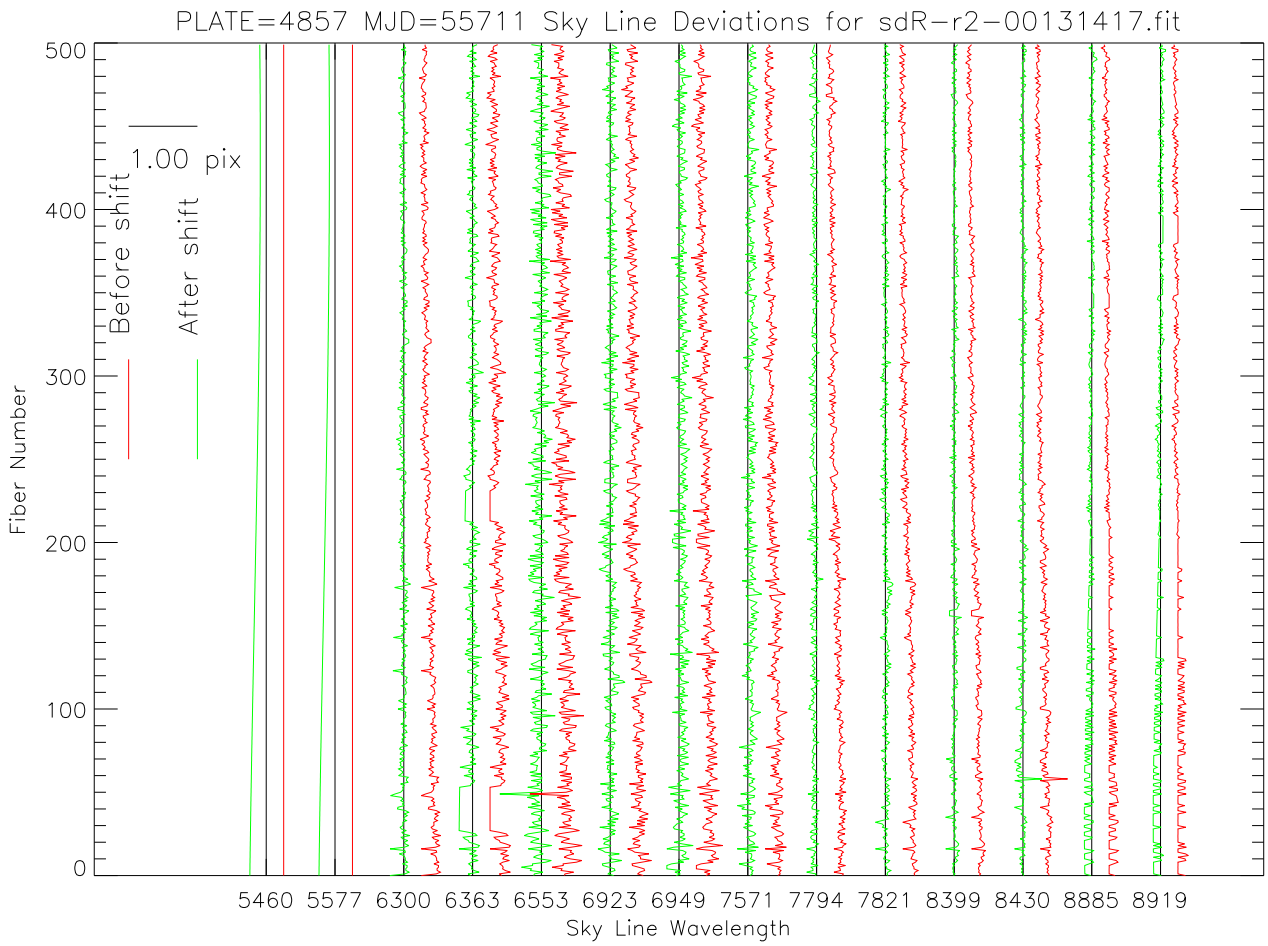


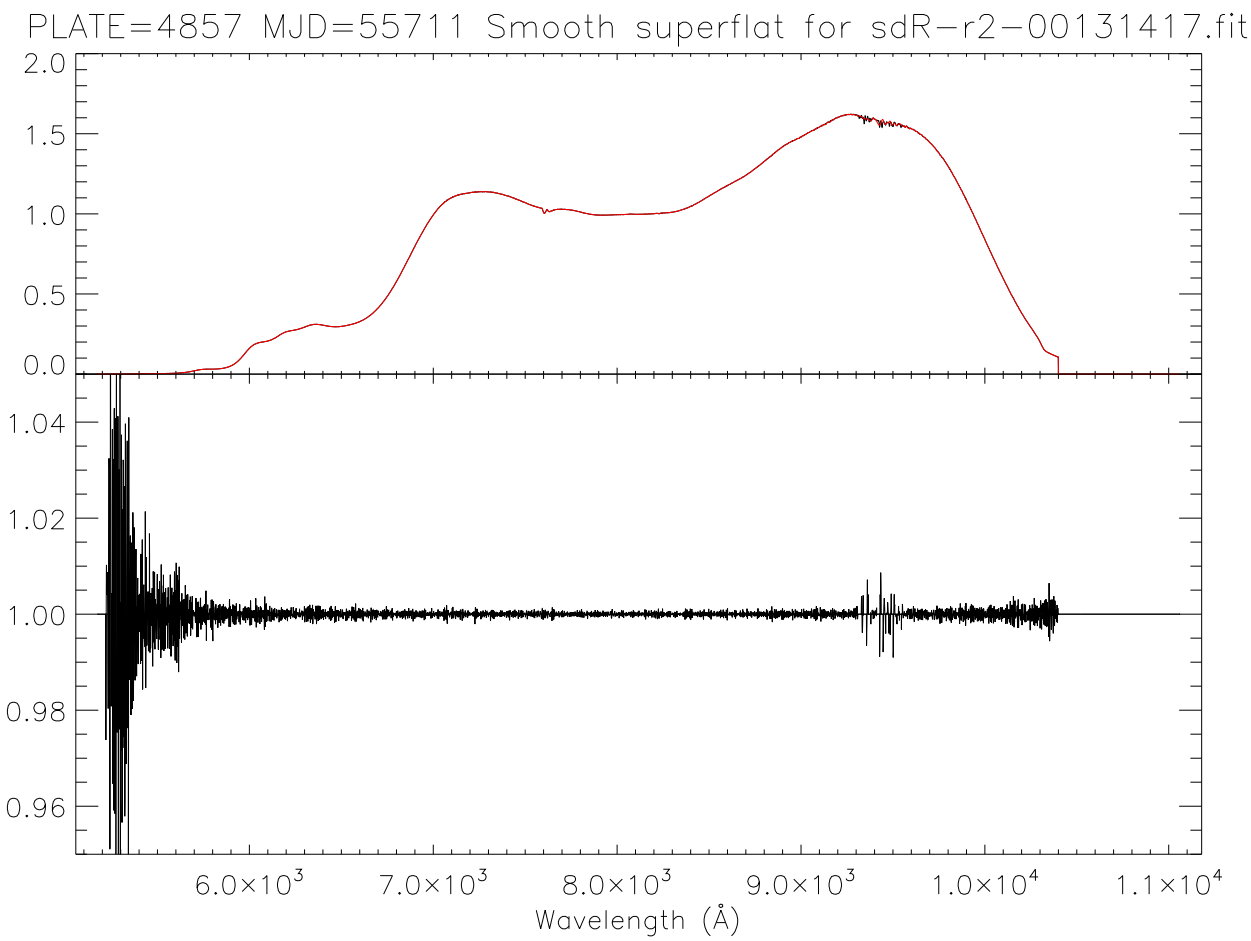

PLATE=4857 MJD=55711 sdR-r2-00131416.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.04 %
Fiber number
Focal Distance [mm]
Airmass

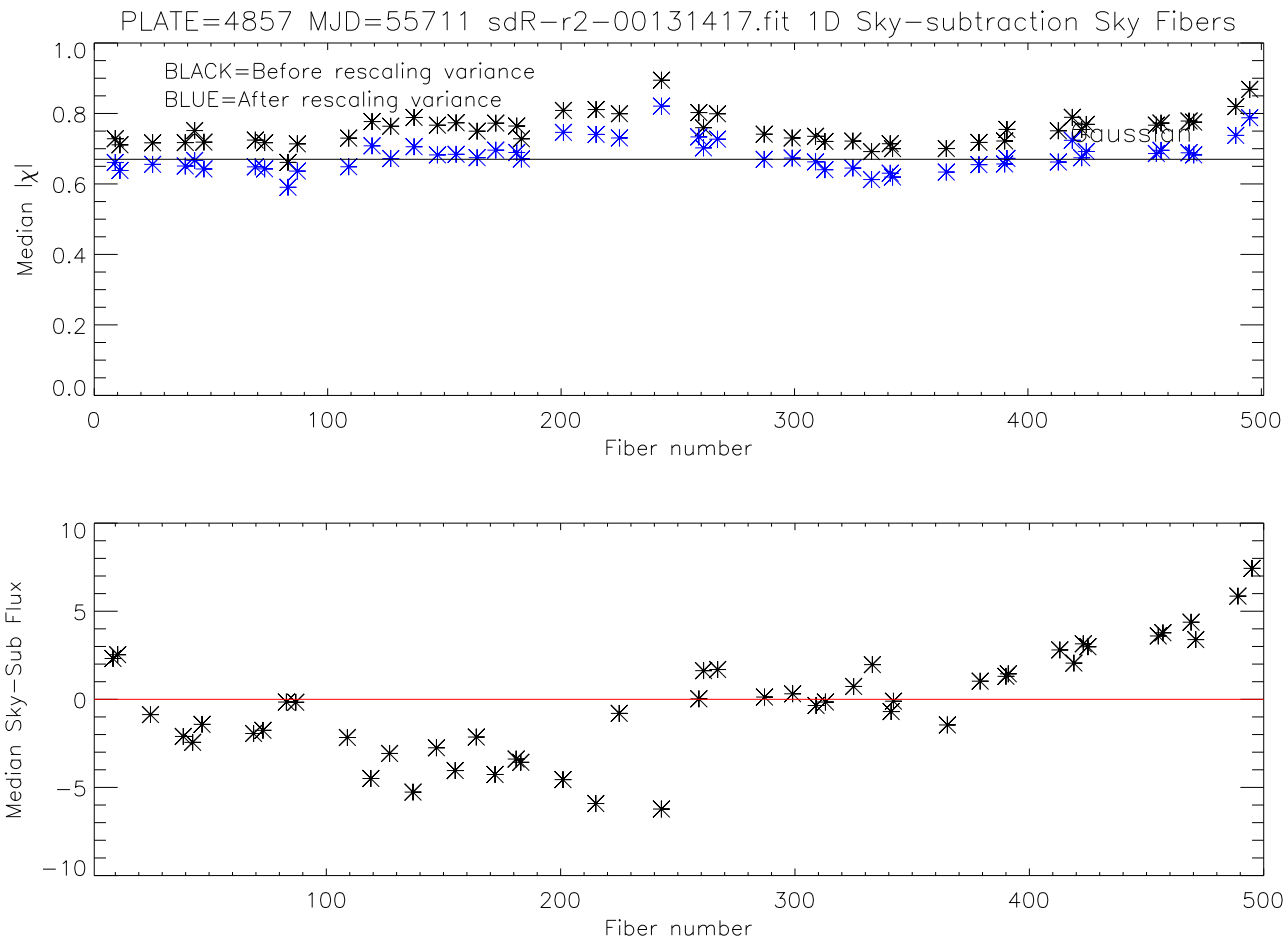

PLATE=4857 MJD=55711 sdR-r2-00131416.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.54 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

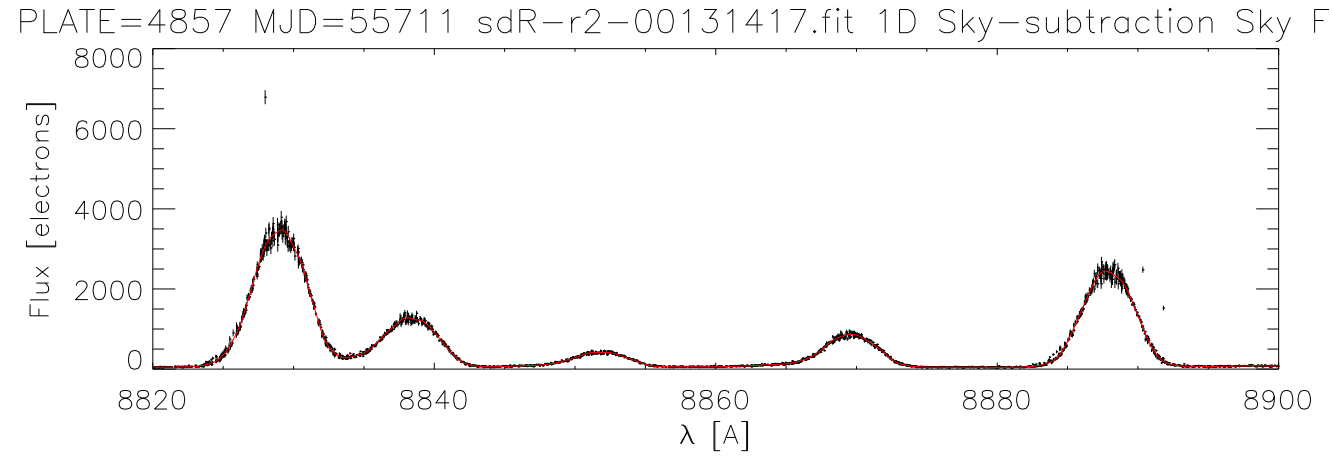

PLATE=4857 MJD=55711 Fiber−Flats for sdR−r2−00131414.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −0.674
Max value = 1.950
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Wed Nov 18 19:09:03 2015

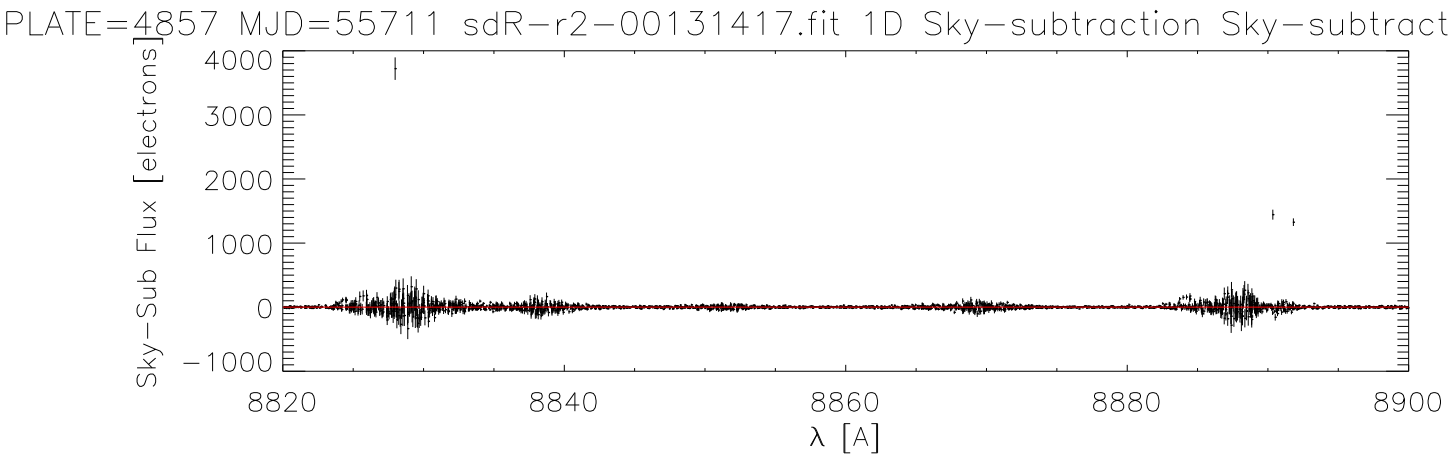

PLATE=4857 MJD=55711 Extraction chi$^2$ for sdR−r2−00131417.fit
BLACK = Final chisq extraction
$\chi^2$
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=4857 MJD=55711 Sky Line Deviations for sdR-r2-00131417.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

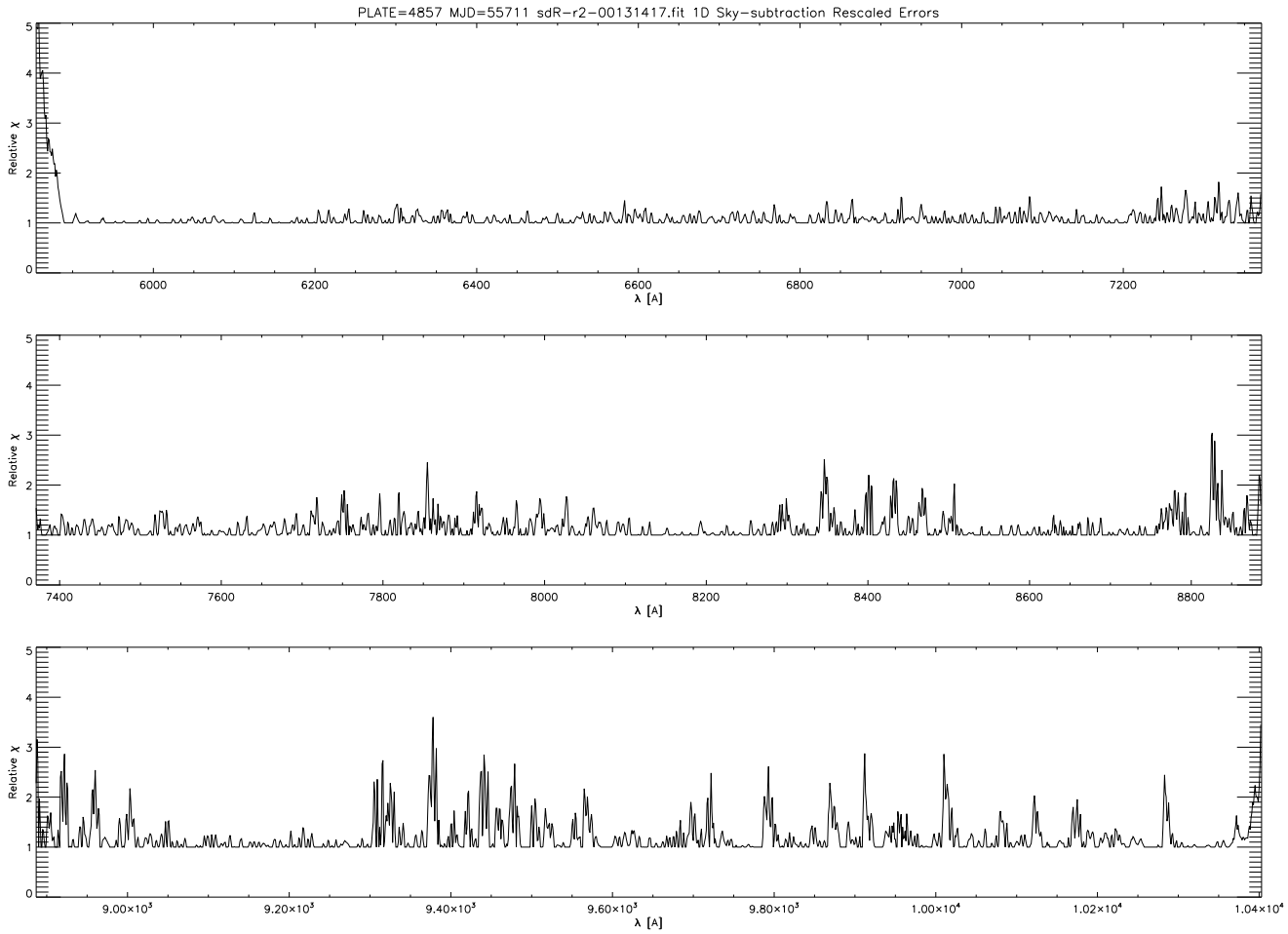

PLATE=4857 MJD=55711 Smooth superflat for sdR-r2-00131417.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

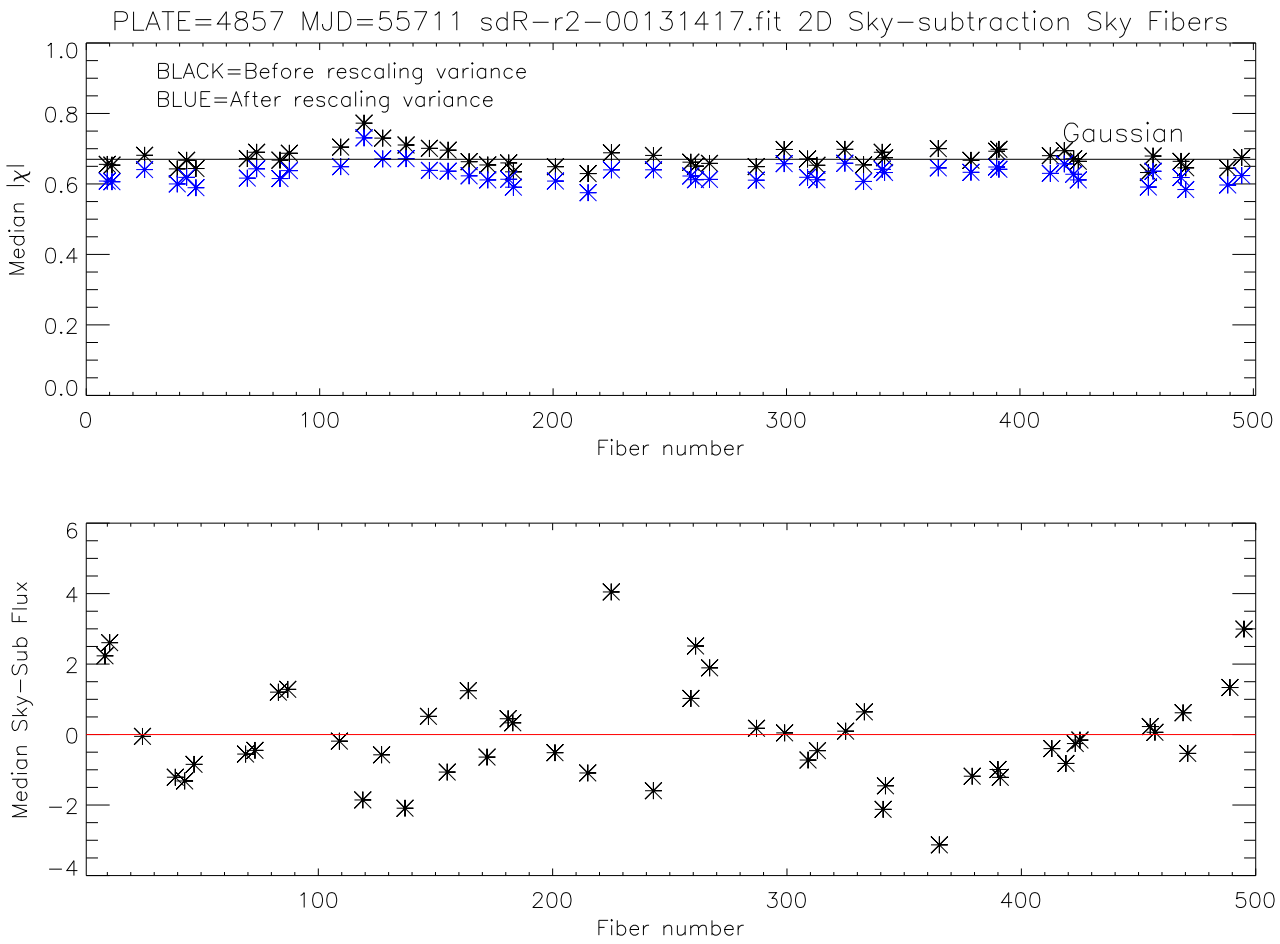

PLATE=4857 MJD=55711 sdR-r2-00131417.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

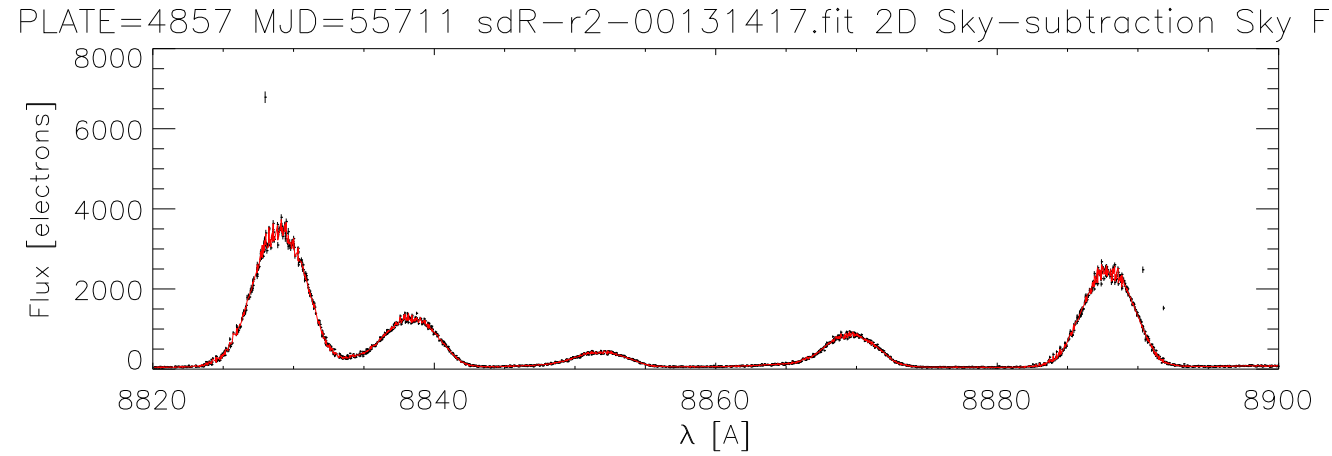

PLATE=4857 MJD=55711 sdR-r2-00131417.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

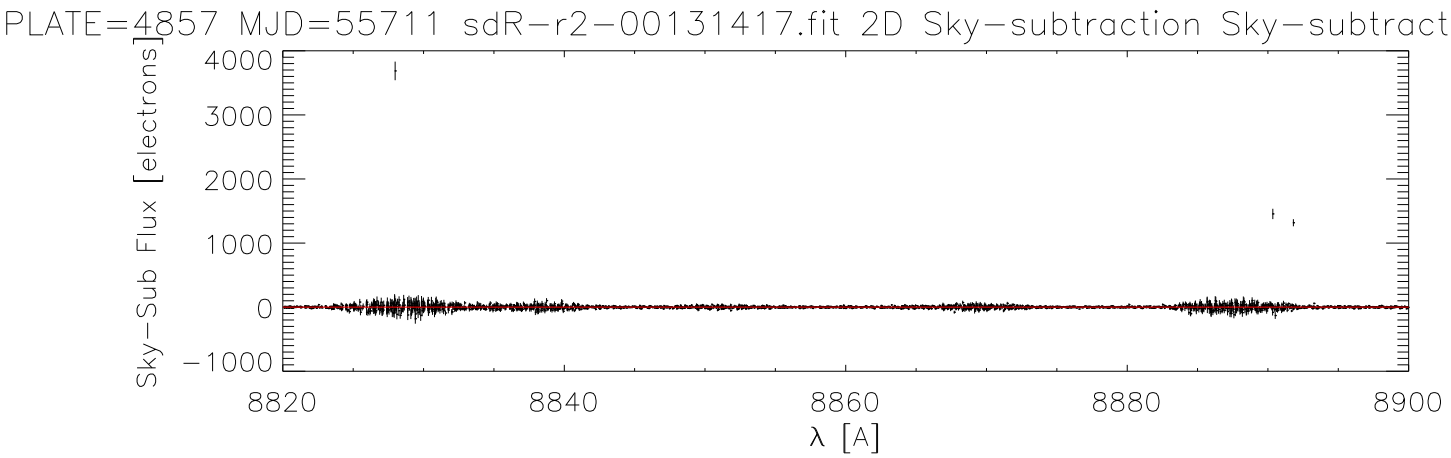

PLATE=4857 MJD=55711 sdR-r2-00131417.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 49

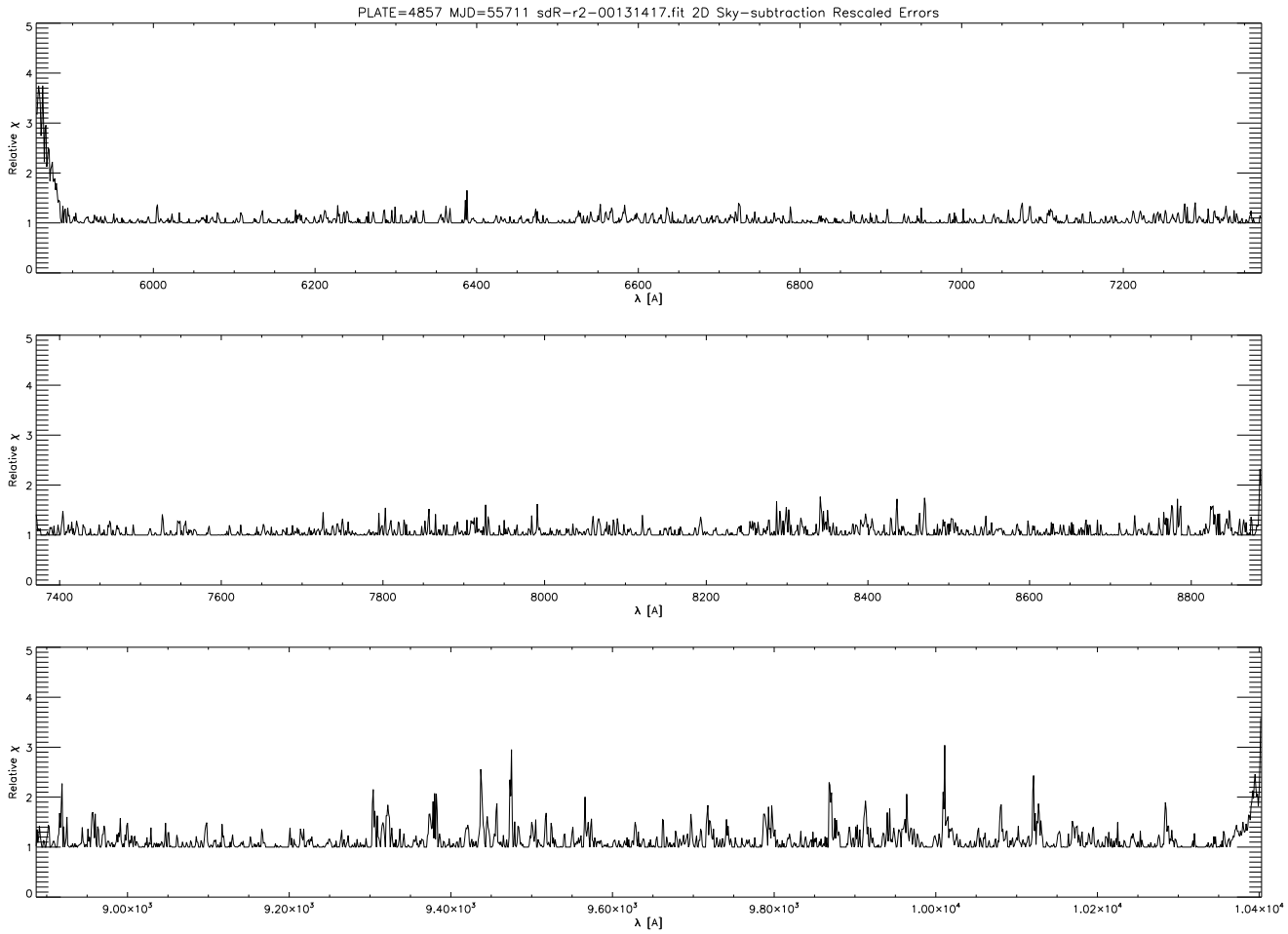


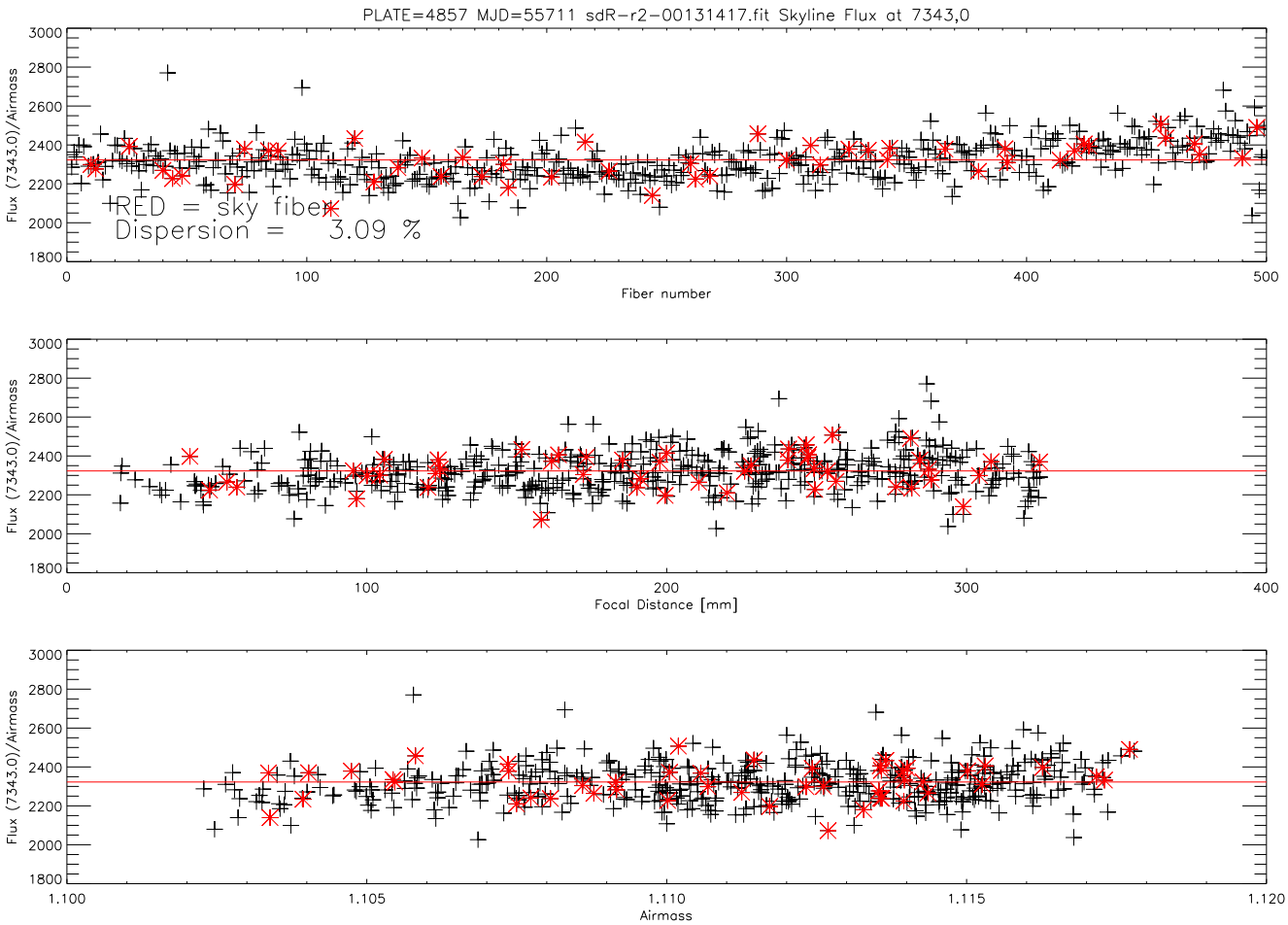

PLATE=4857 MJD=55711 sdR-r2-00131417.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

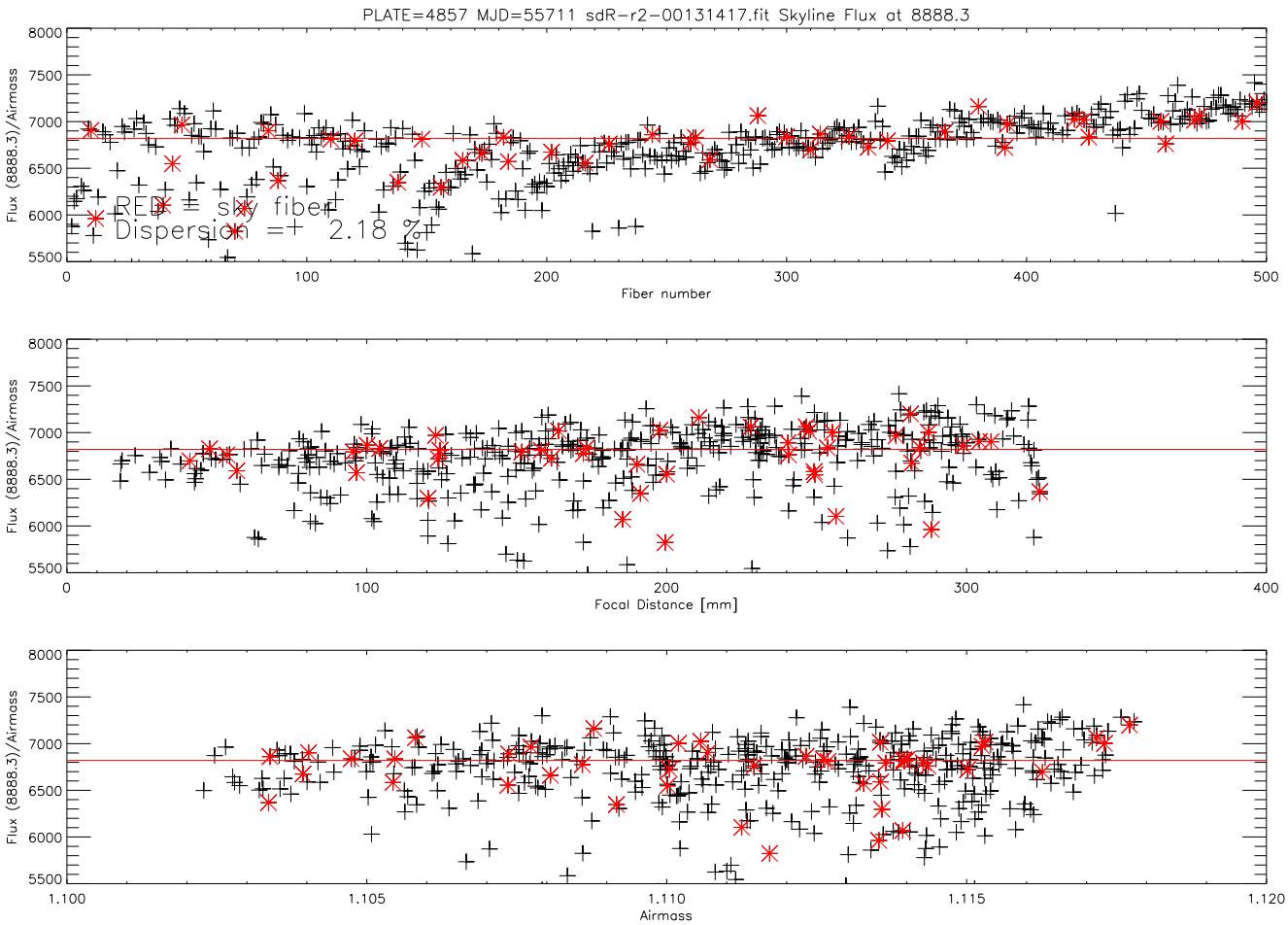

PLATE=4857 MJD=55711 sdR-r2-00131417.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

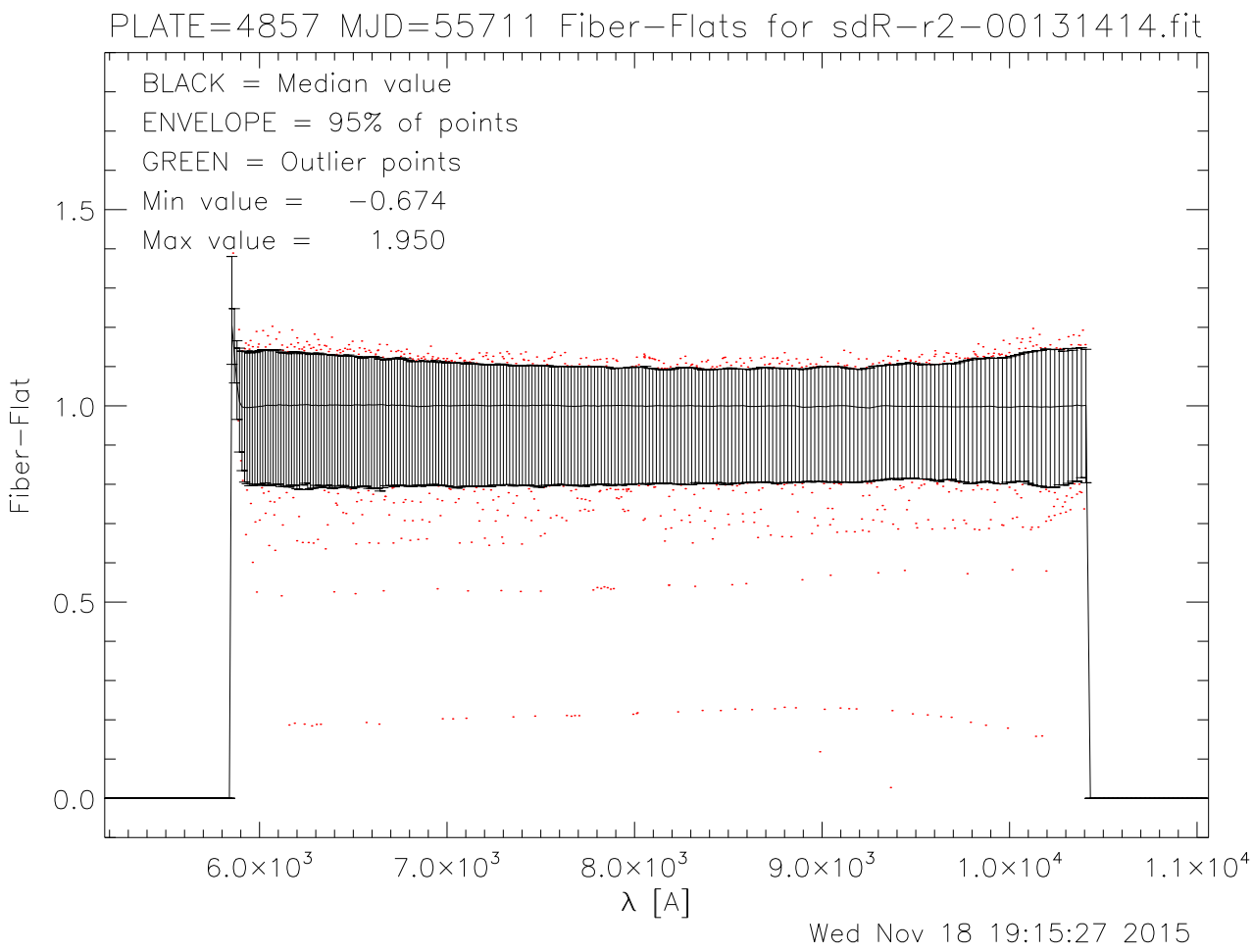

PLATE=4857 MJD=55711 sdR-r2-00131417.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

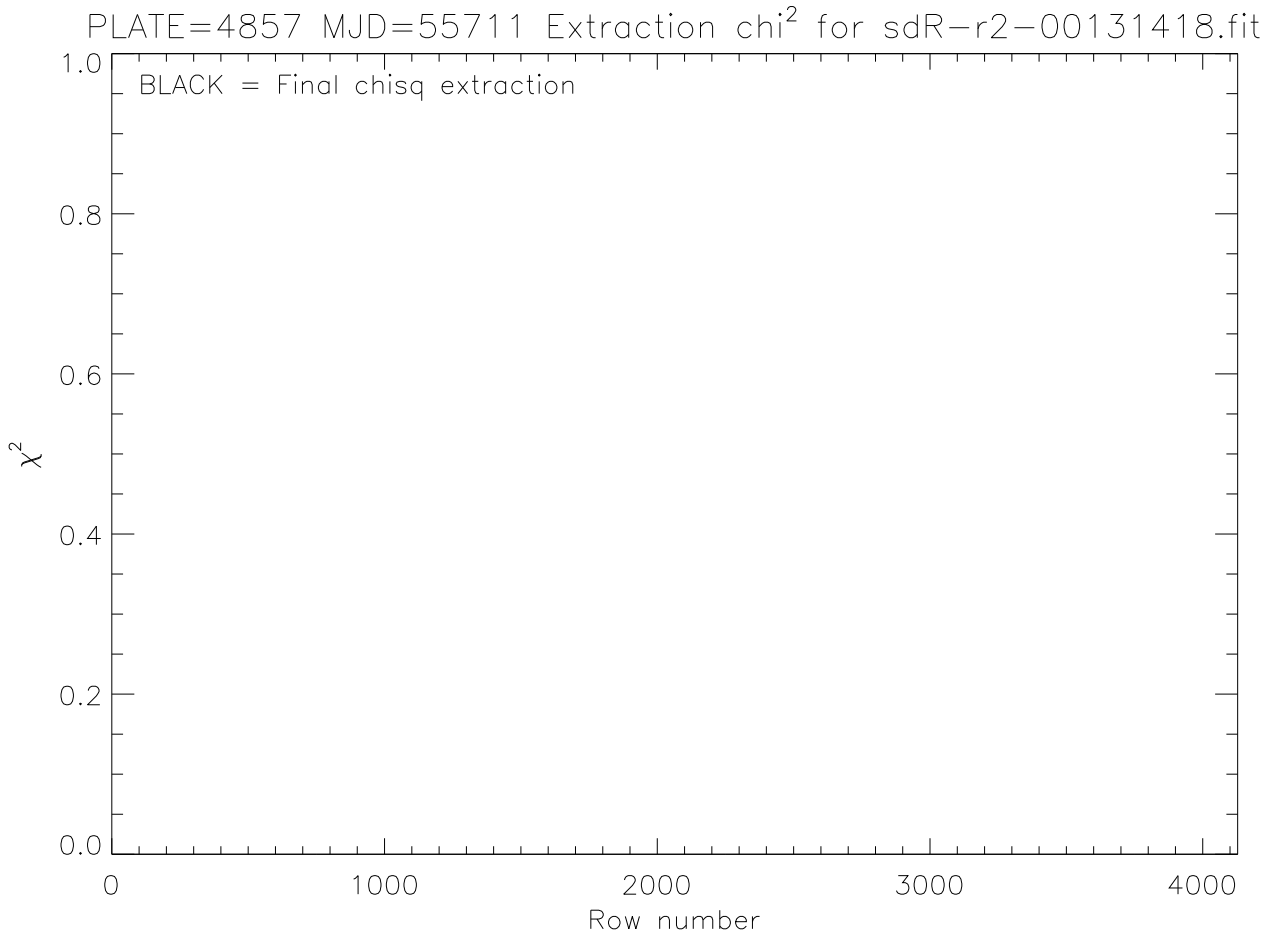
Number of sky fibers = 49

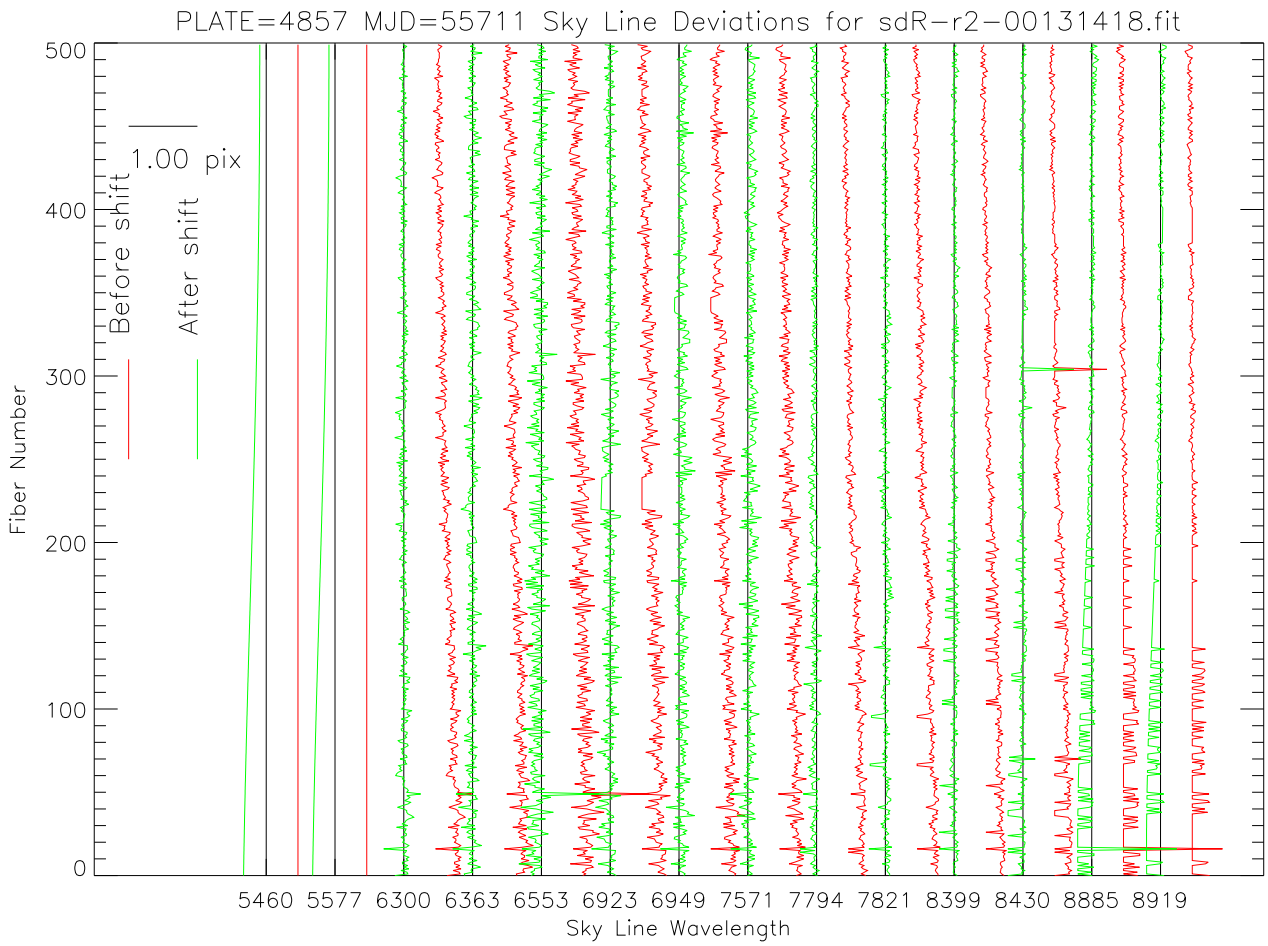


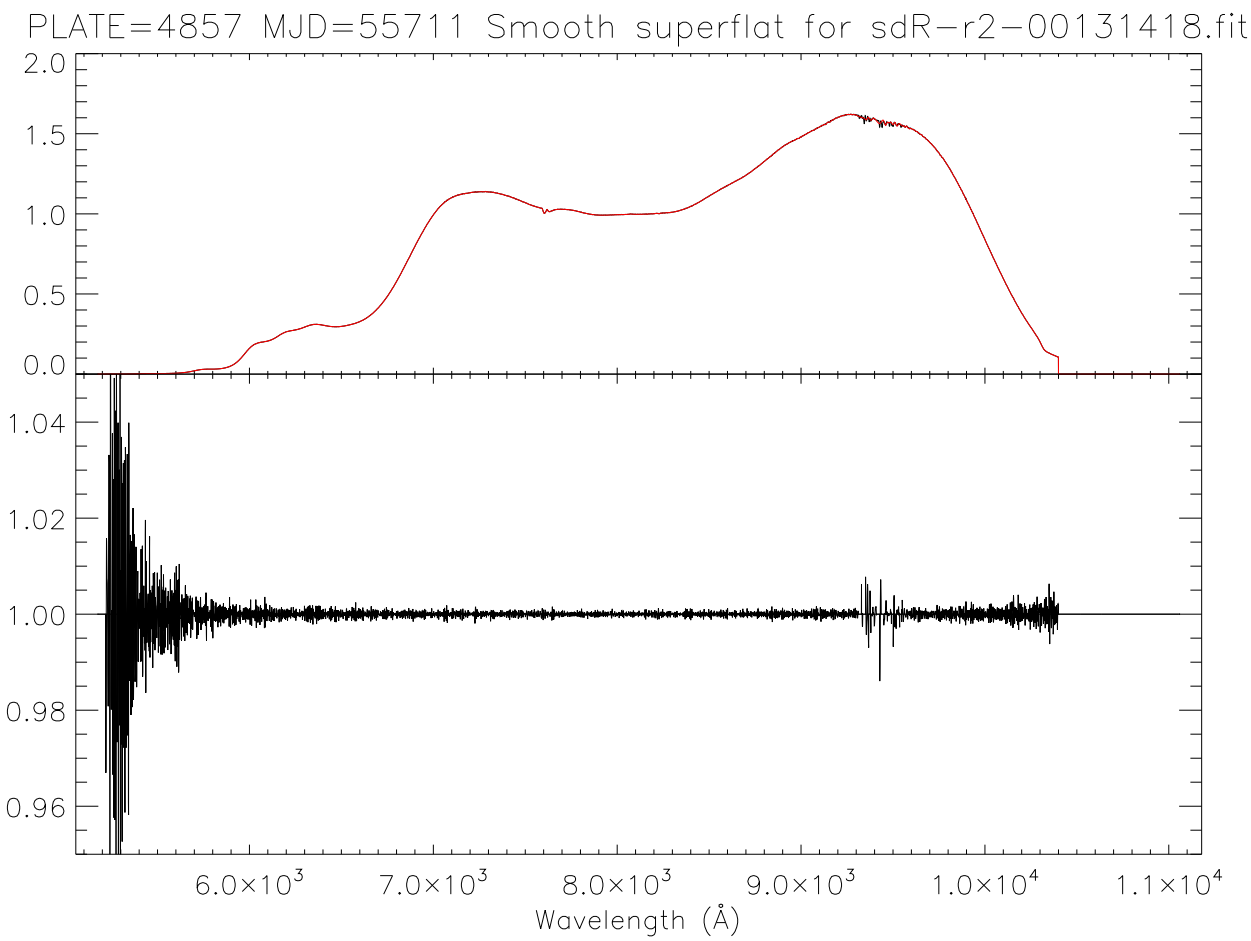

PLATE=4857 MJD=55711 sdR-r2-00131417.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 3.09 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

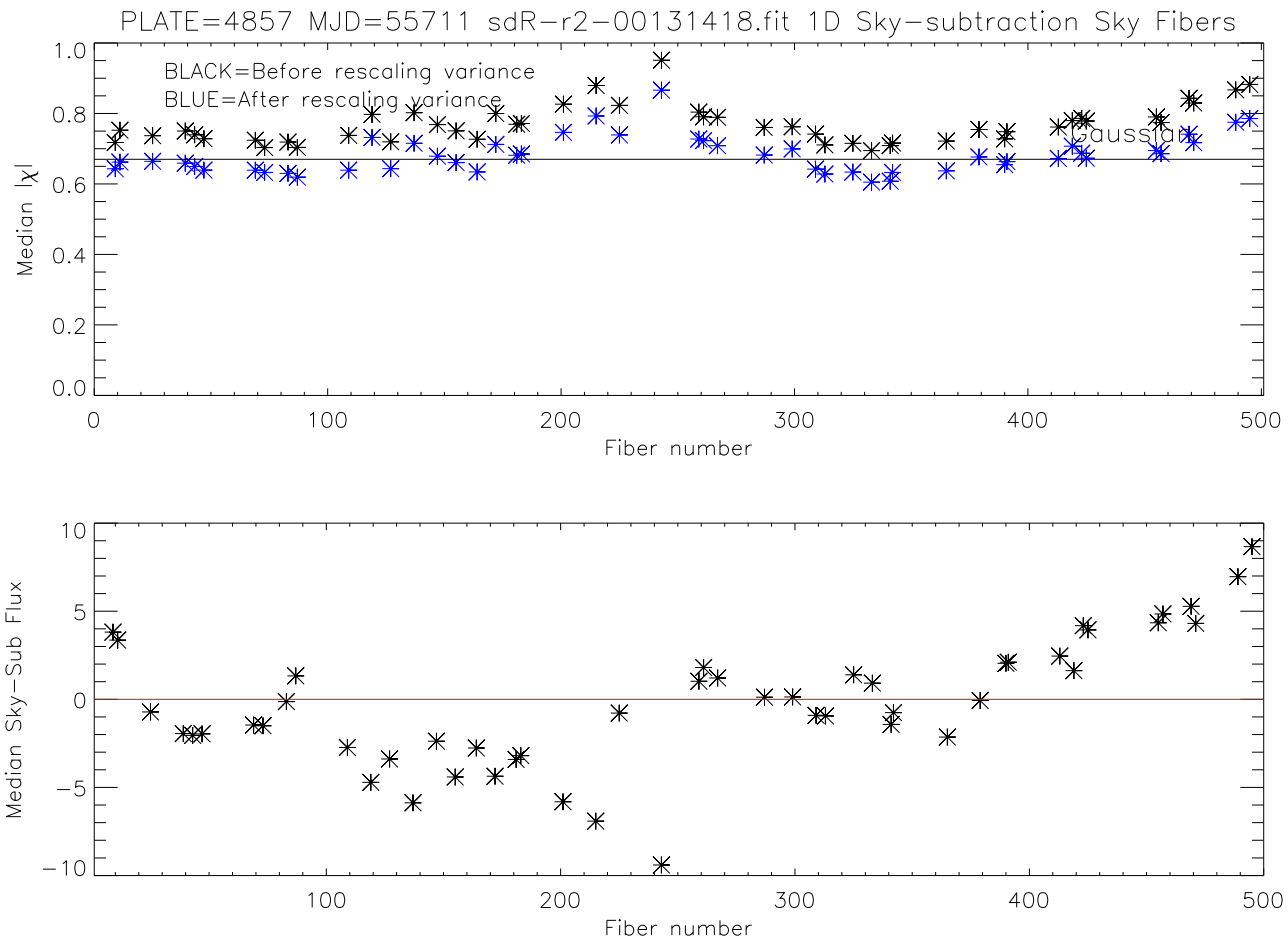

PLATE=4857 MJD=55711 sdR-r2-00131417.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
Focal Distance [mm]
Airmass
RED = sky fiber
Dispersion = 2.18 %

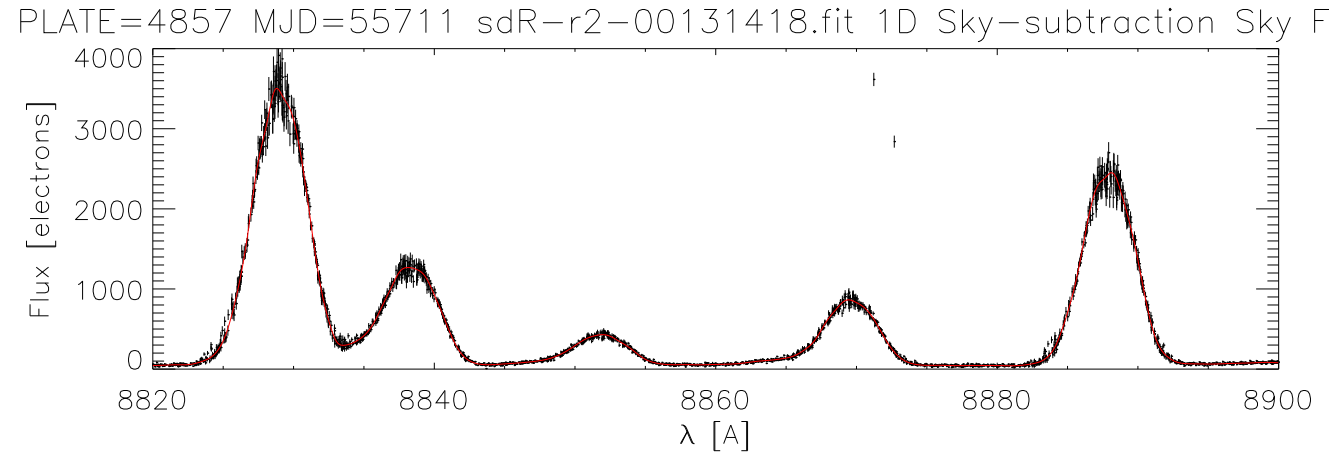

PLATE=4857 MJD=55711 Fiber−Flats for sdR−r2−00131414.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −0.674
Max value = 1.950
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Wed Nov 18 19:15:27 2015

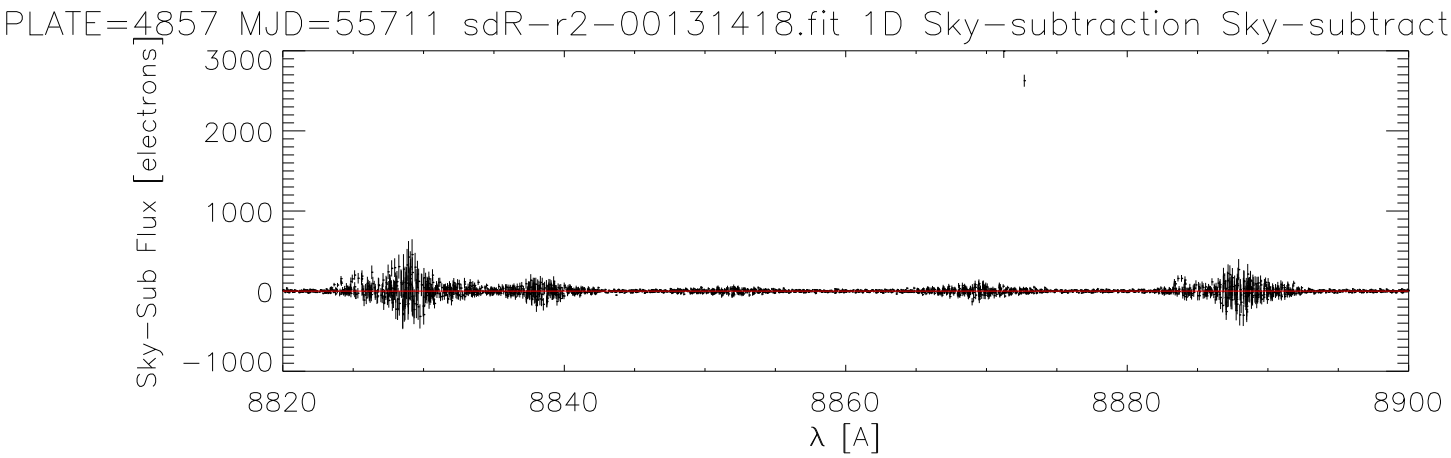

PLATE=4857 MJD=55711 Extraction chi$^2$ for sdR−r2−00131418.fit
BLACK = Final chisq extraction
$\chi^2$
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=4857 MJD=55711 Sky Line Deviations for sdR-r2-00131418.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

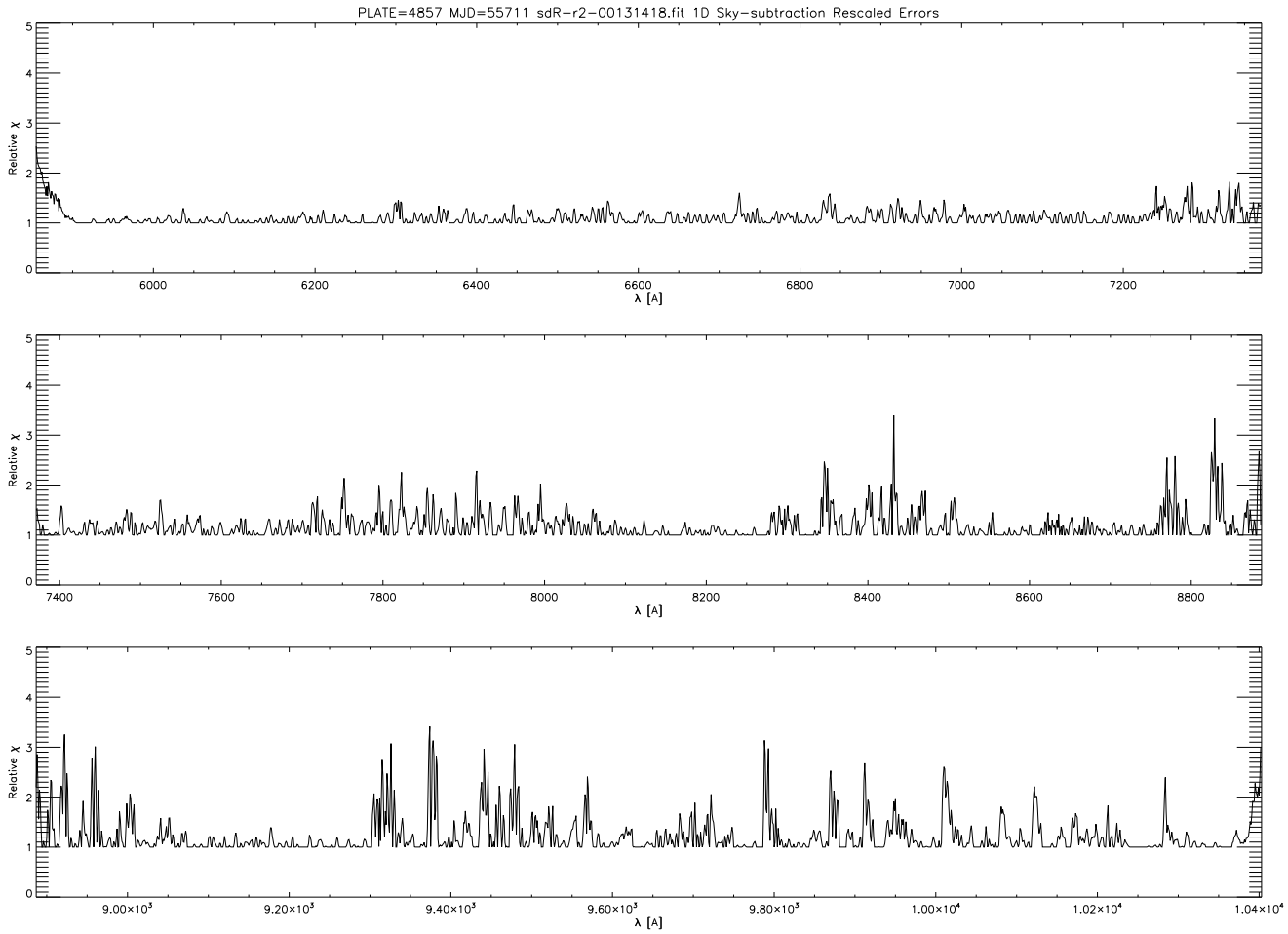

PLATE=4857 MJD=55711 Smooth superflat for sdR-r2-00131418.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

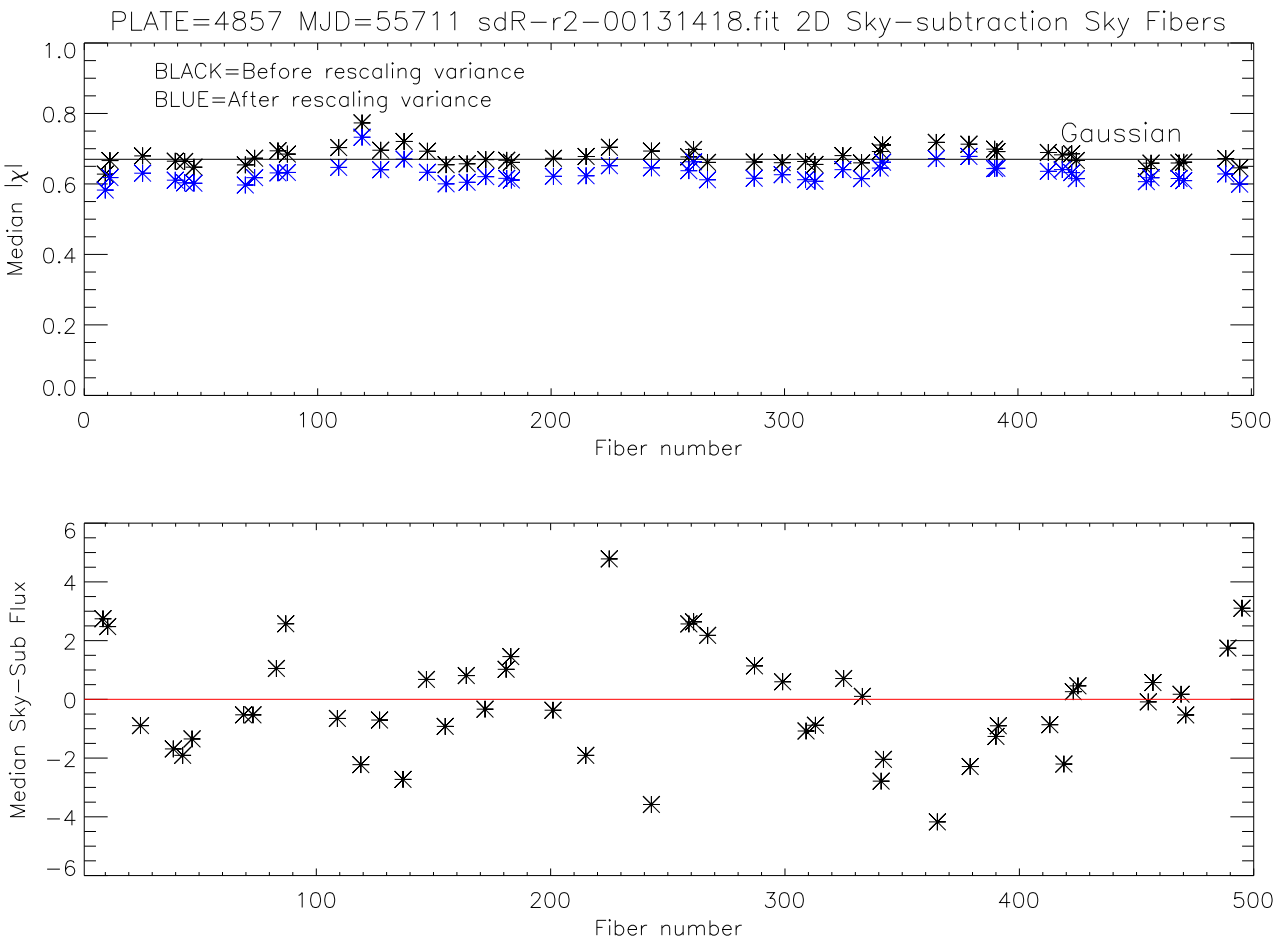

PLATE=4857 MJD=55711 sdR-r2-00131418.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

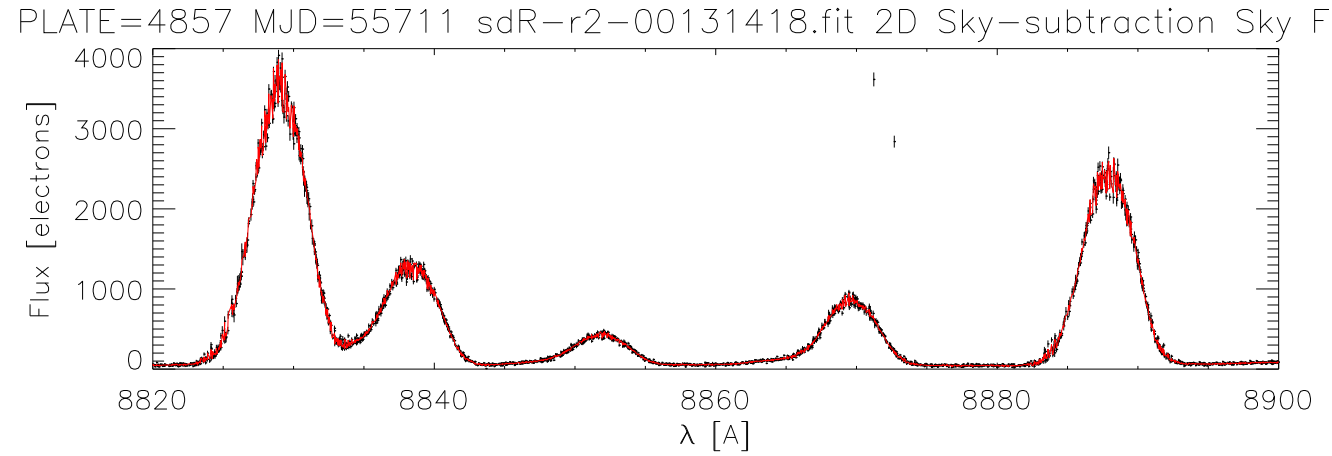

PLATE=4857 MJD=55711 sdR-r2-00131418.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

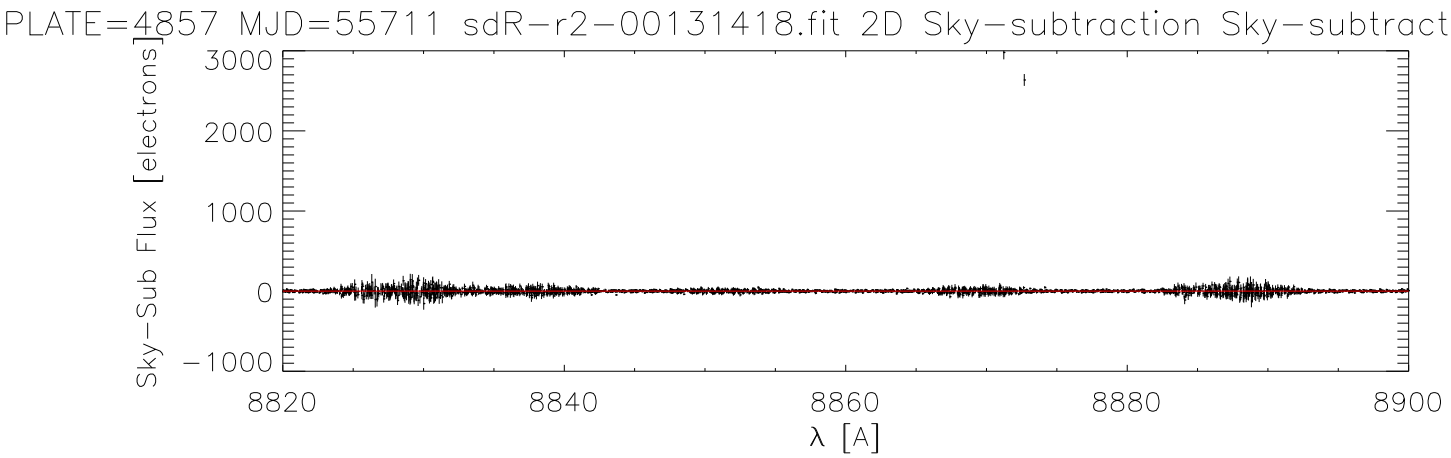

PLATE=4857 MJD=55711 sdR-r2-00131418.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 49

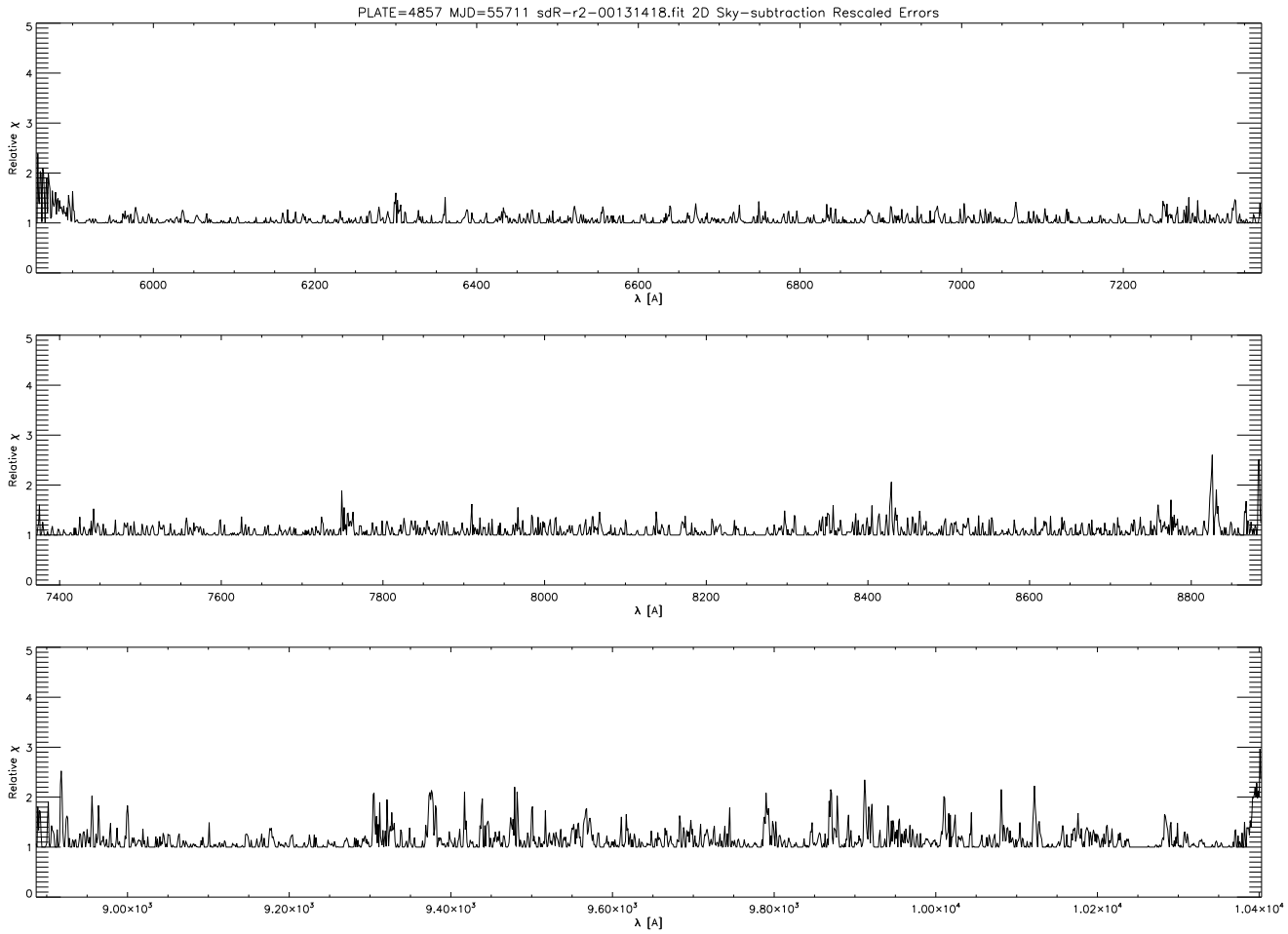


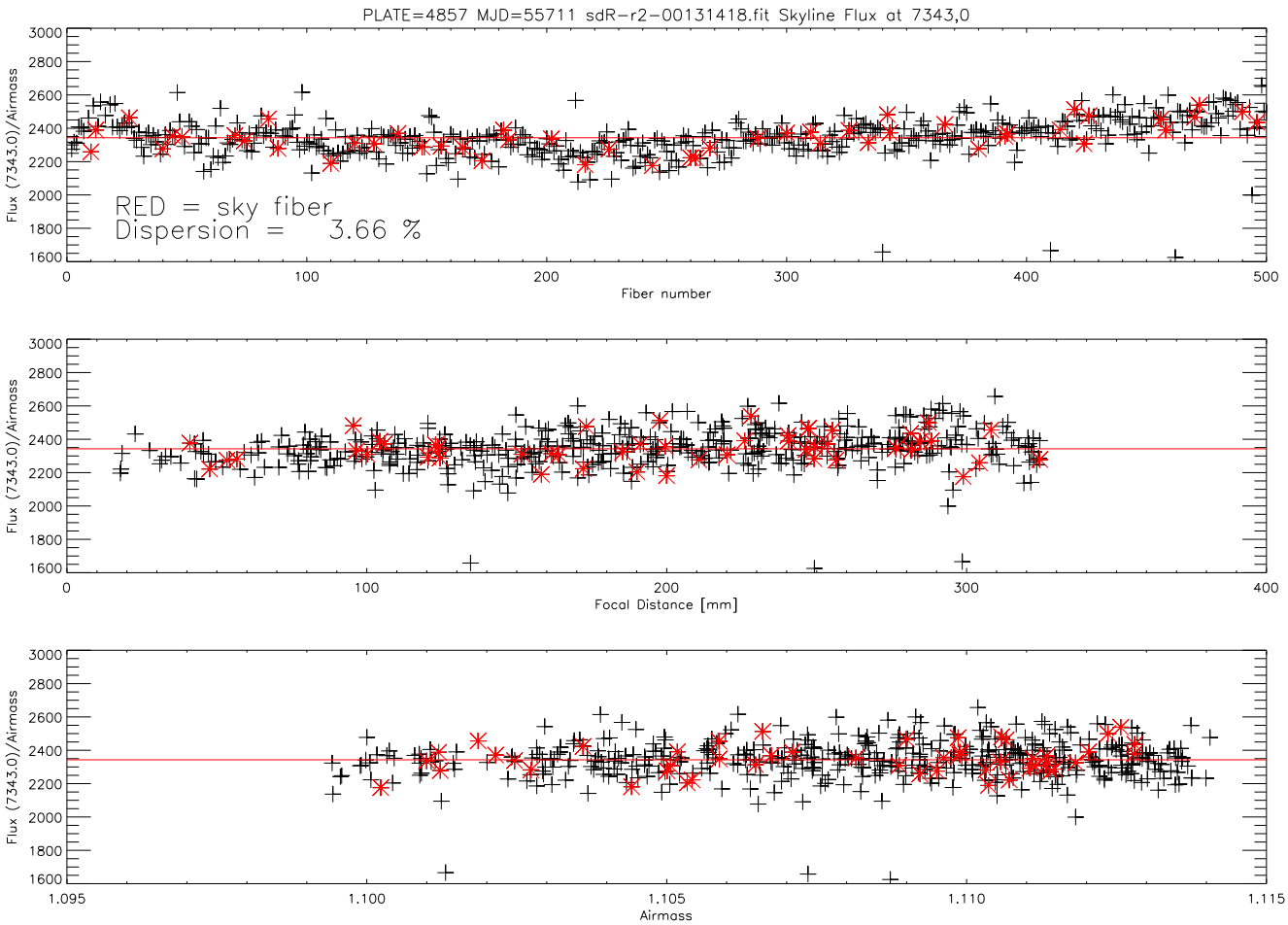

PLATE=4857 MJD=55711 sdR-r2-00131418.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

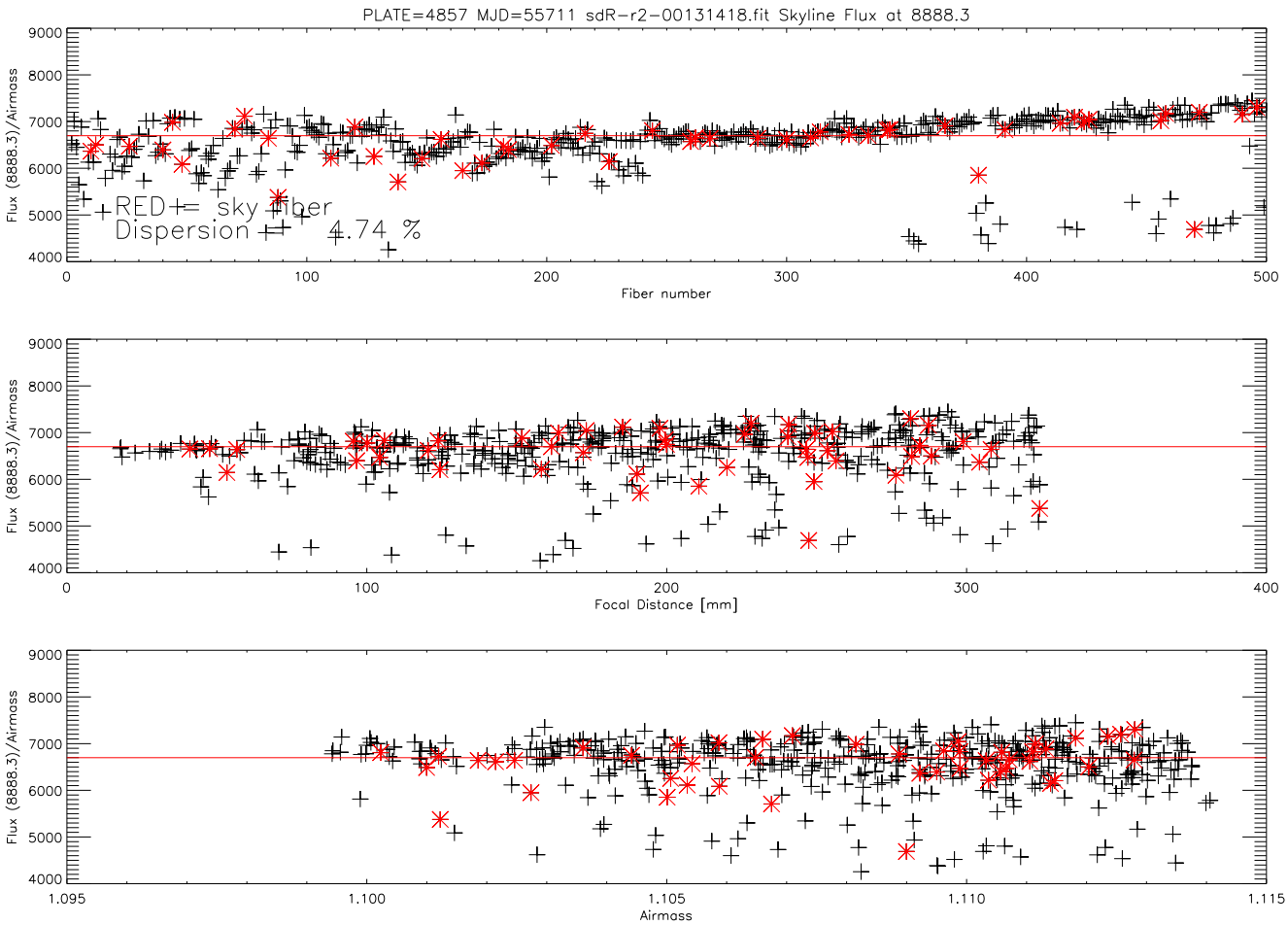

PLATE=4857 MJD=55711 sdR-r2-00131418.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

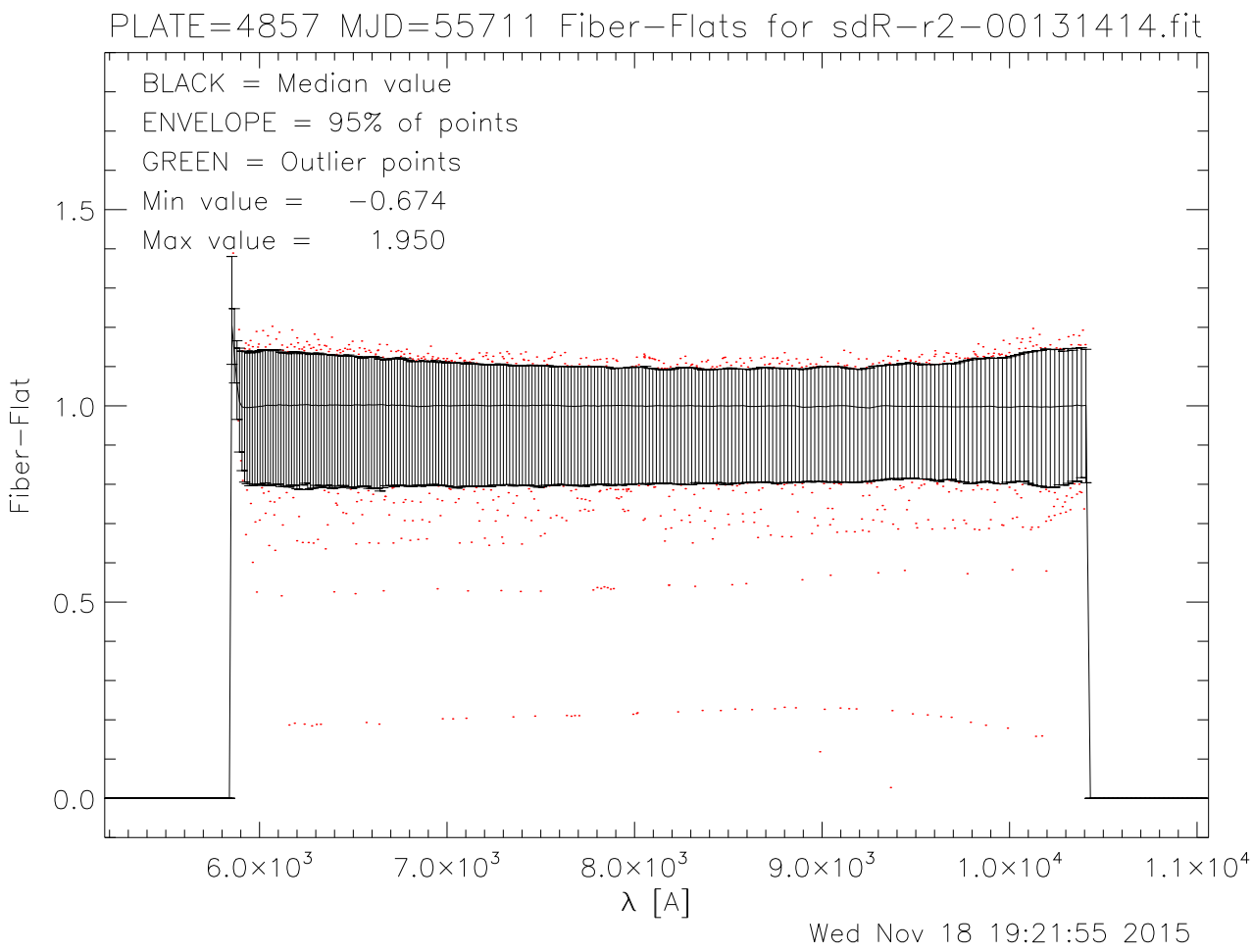

PLATE=4857 MJD=55711 sdR-r2-00131418.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

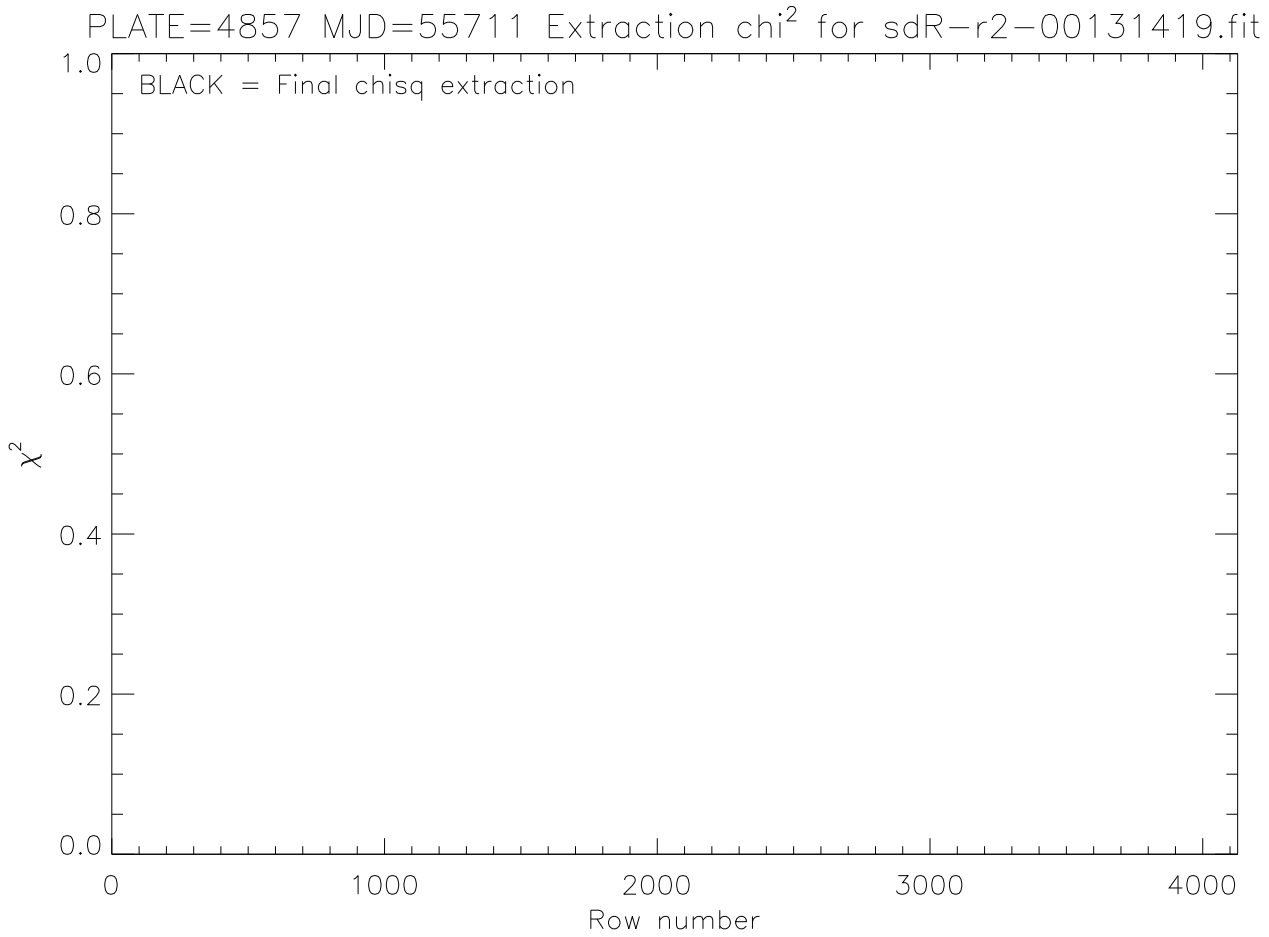
Number of sky fibers = 49

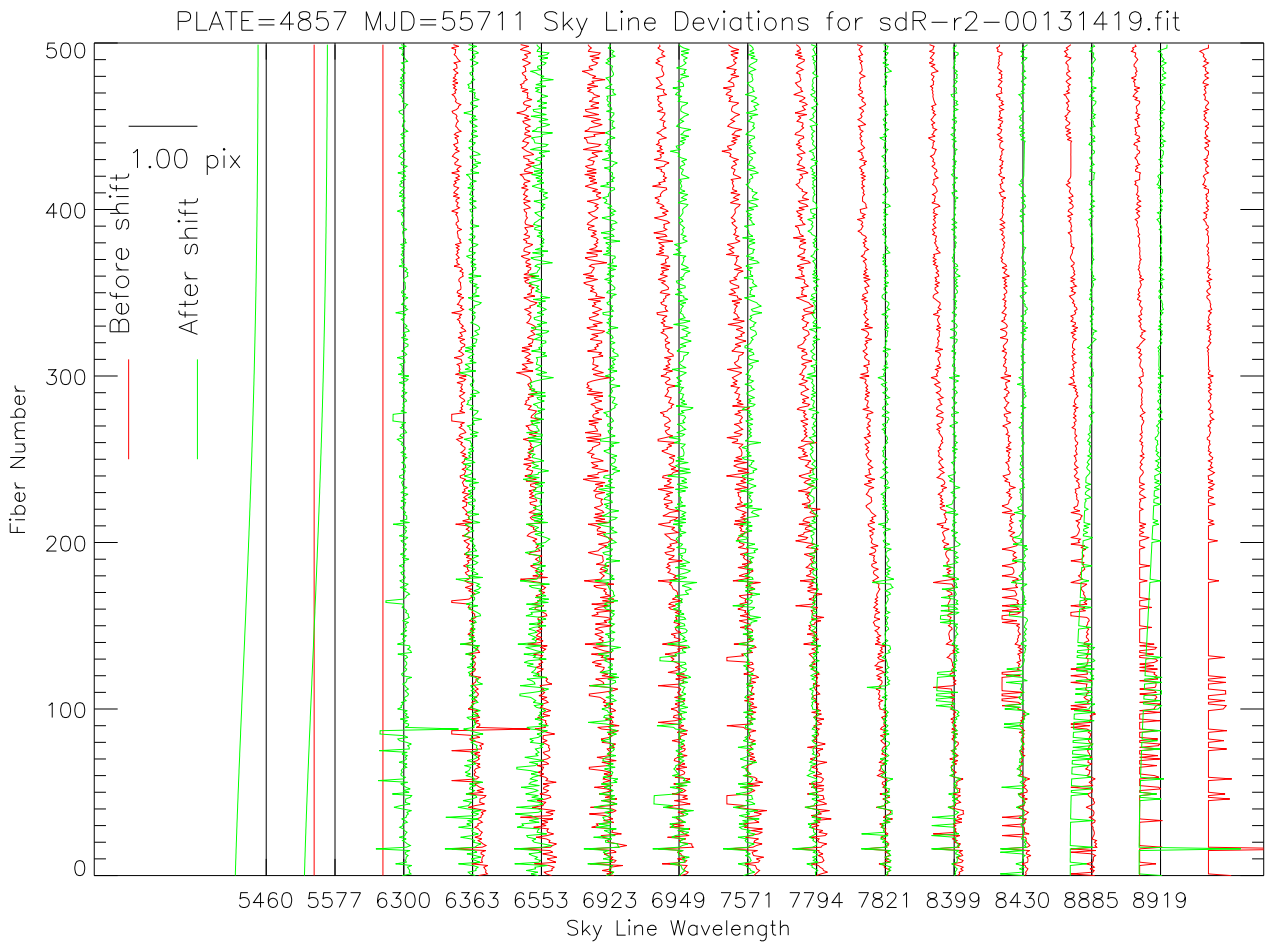


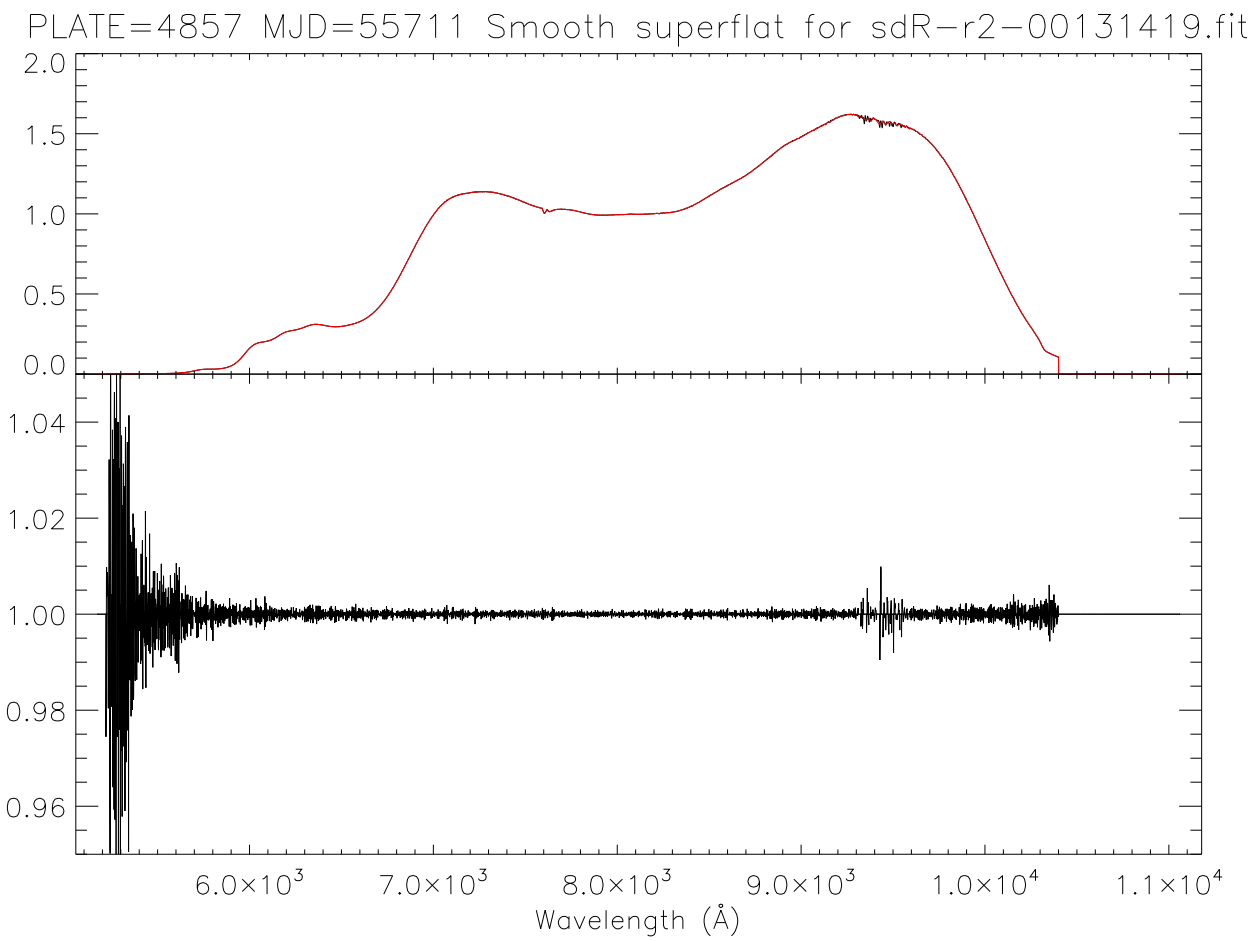

PLATE=4857 MJD=55711 sdR-r2-00131418.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.66 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

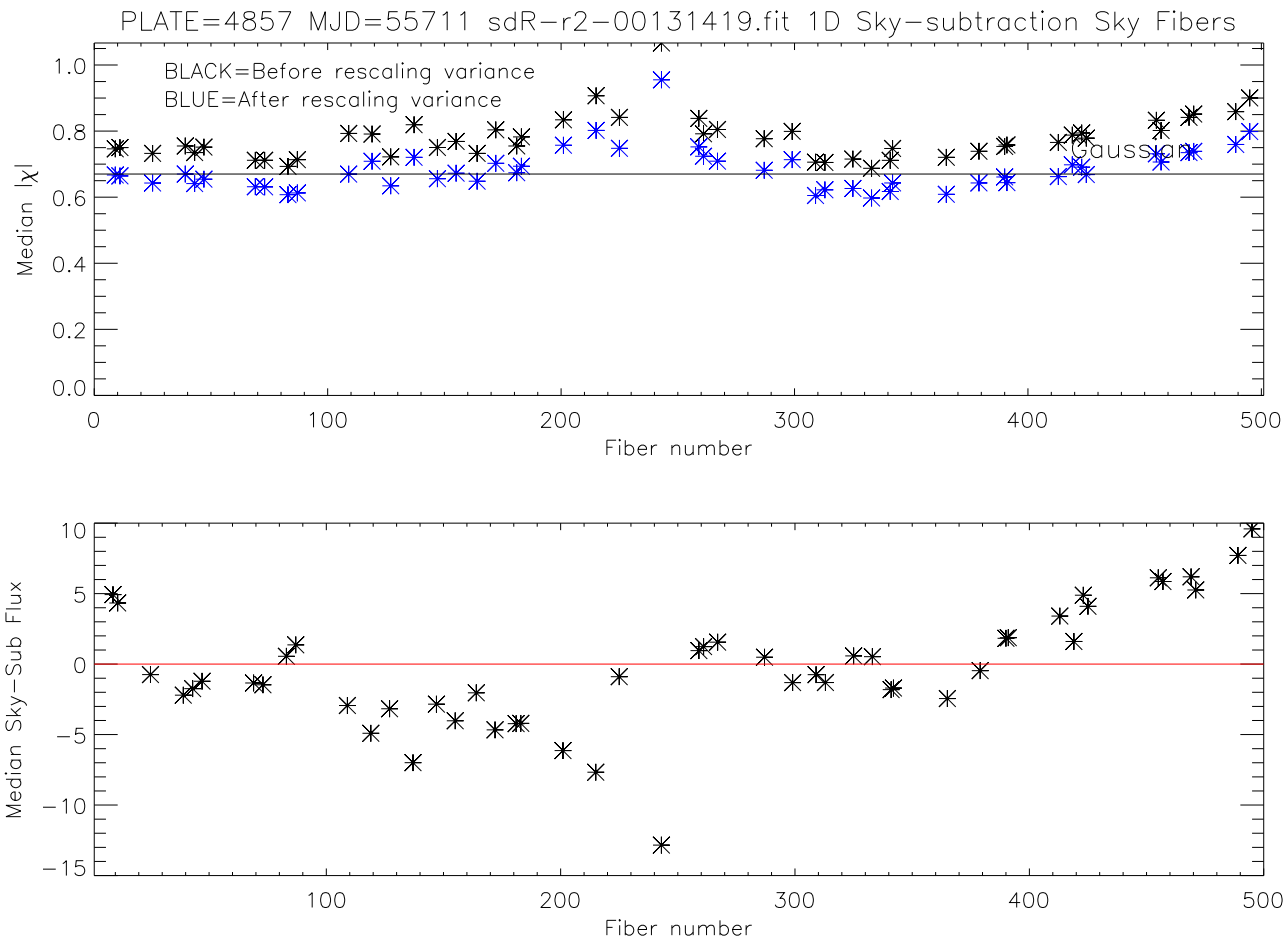

PLATE=4857 MJD=55711 sdR-r2-00131418.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED= sky fiber
Dispersion = 4.74 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

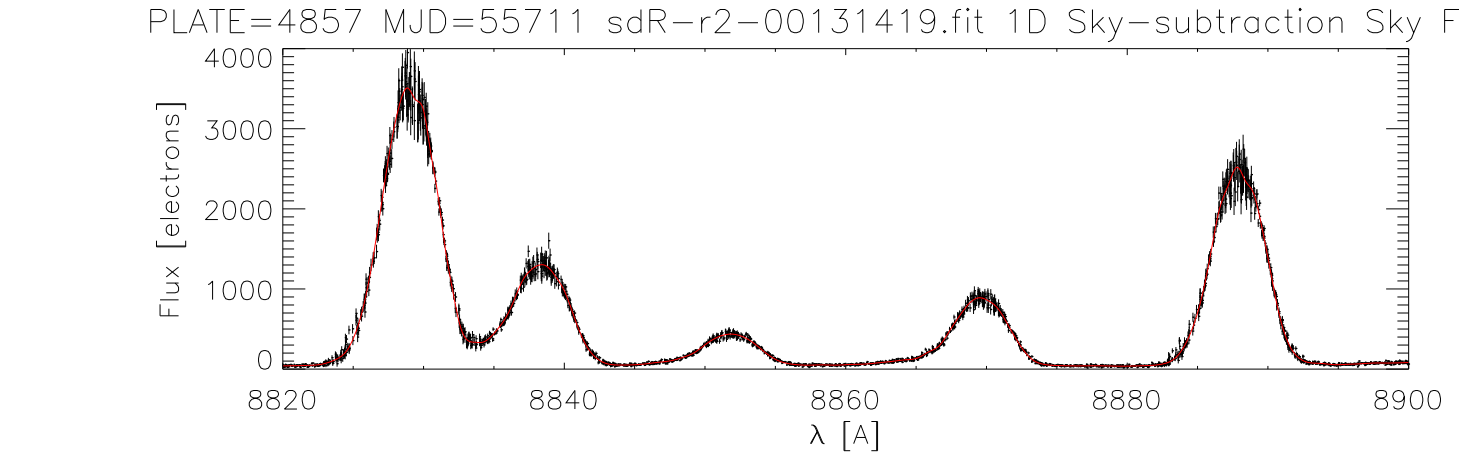

PLATE=4857 MJD=55711 Fiber−Flats for sdR−r2−00131414.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −0.674
Max value = 1.950
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Wed Nov 18 19:21:55 2015

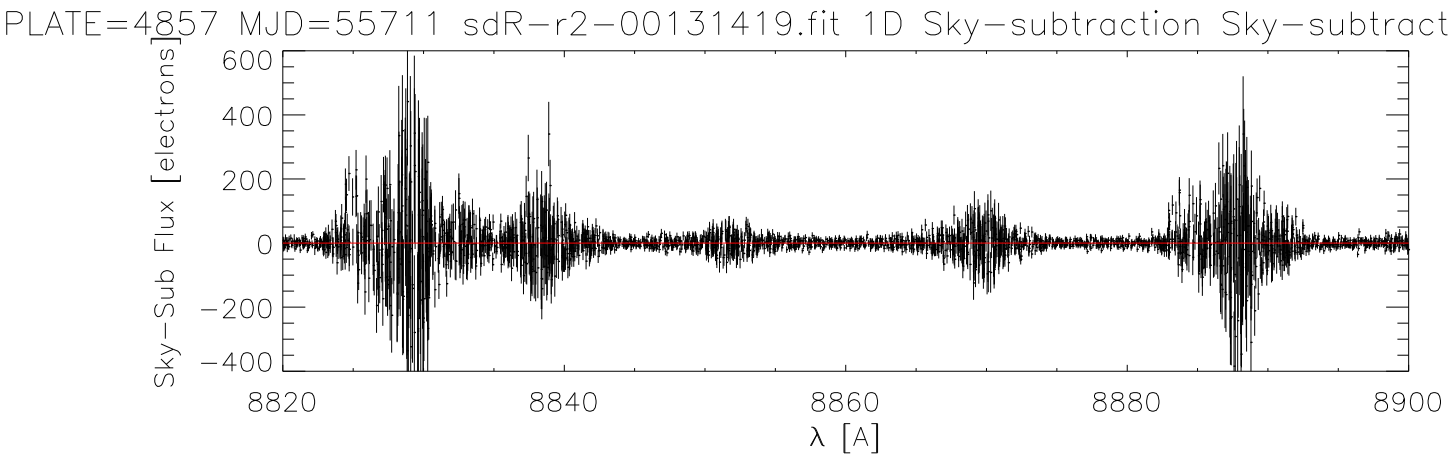

PLATE=4857 MJD=55711 Extraction chi$^2$ for sdR−r2−00131419.fit
BLACK = Final chisq extraction
$\chi^2$
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=4857 MJD=55711 Sky Line Deviations for sdR-r2-00131419.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

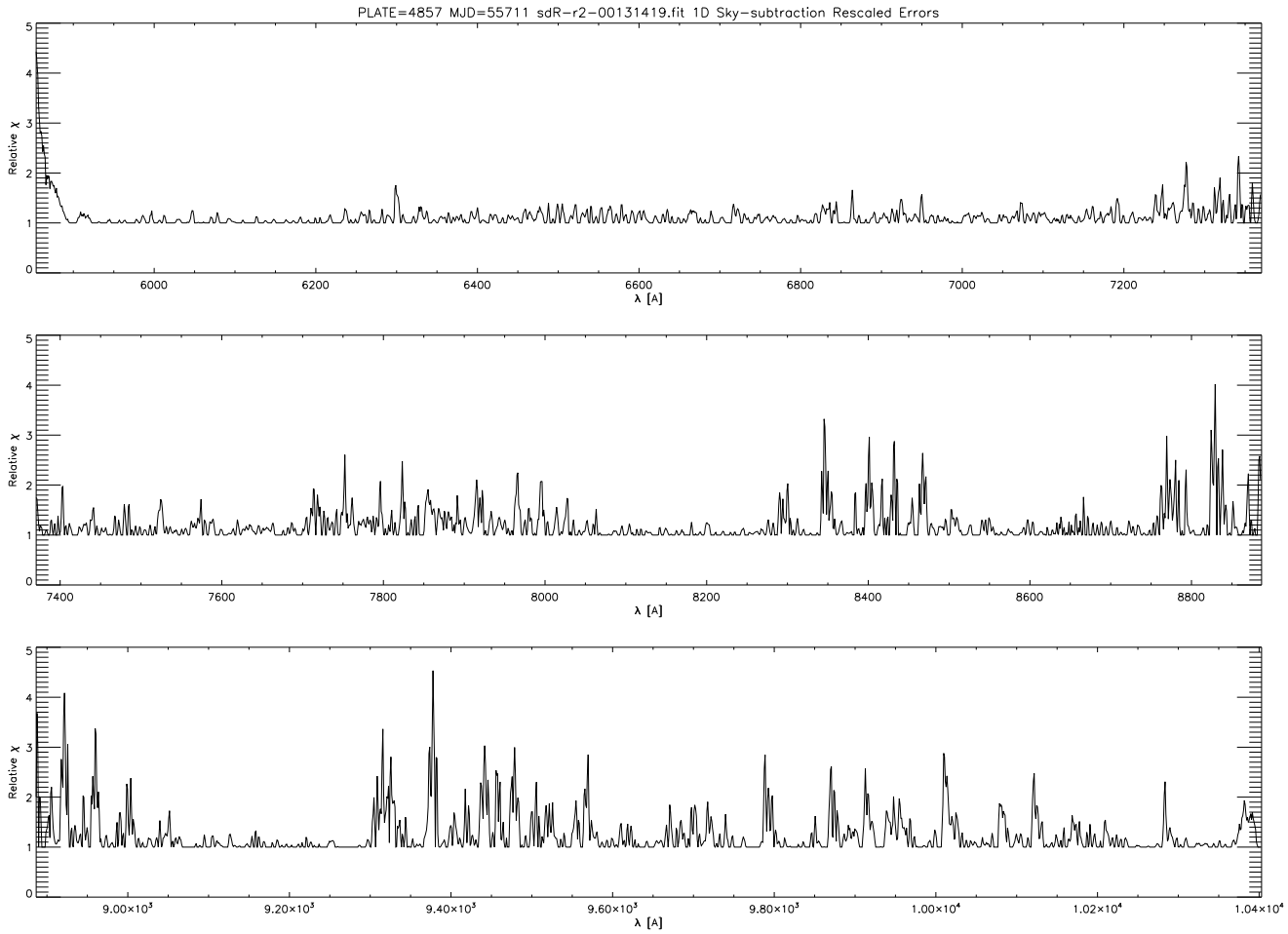

PLATE=4857 MJD=55711 Smooth superflat for sdR-r2-00131419.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

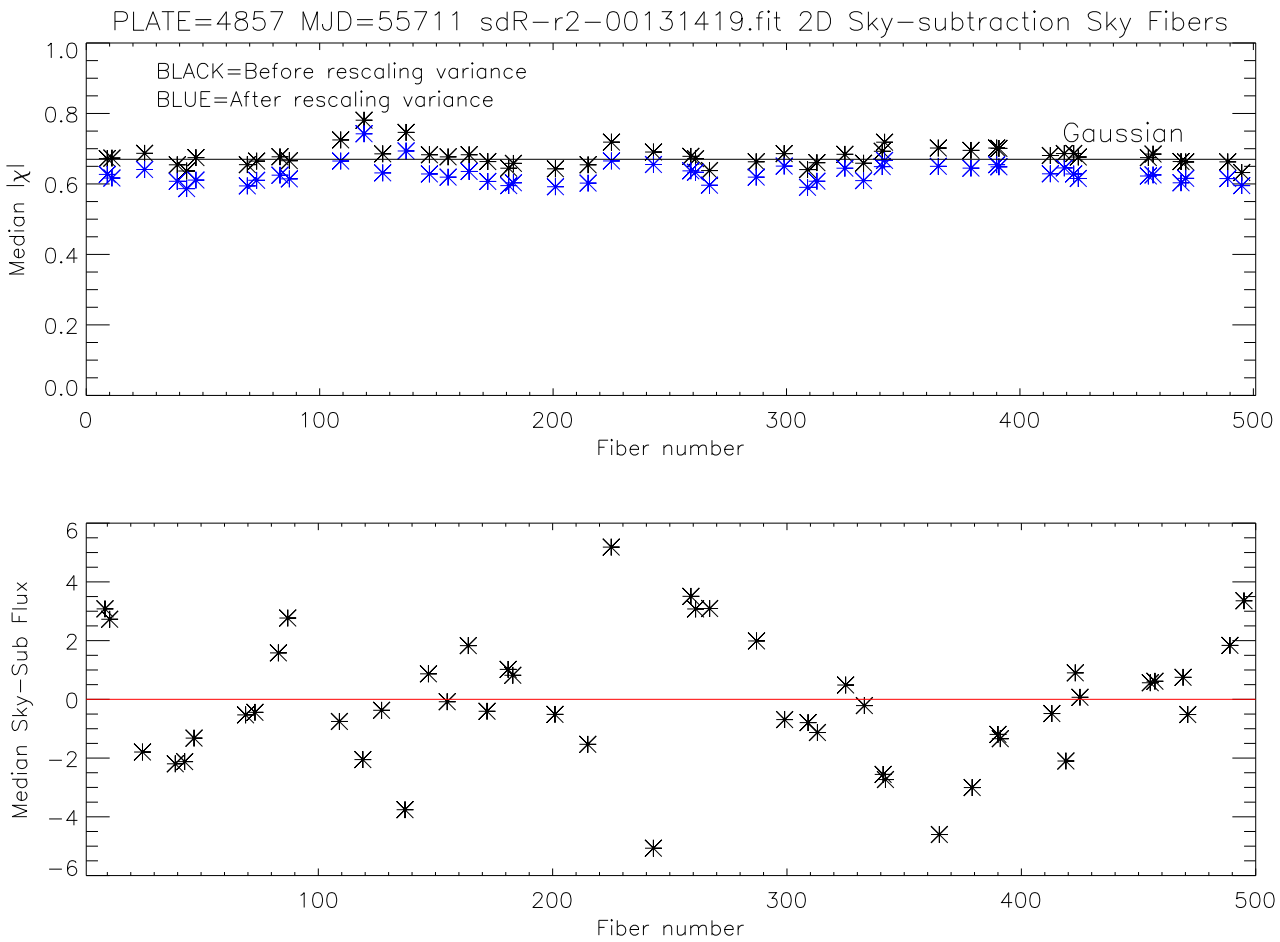

PLATE=4857 MJD=55711 sdR-r2-00131419.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

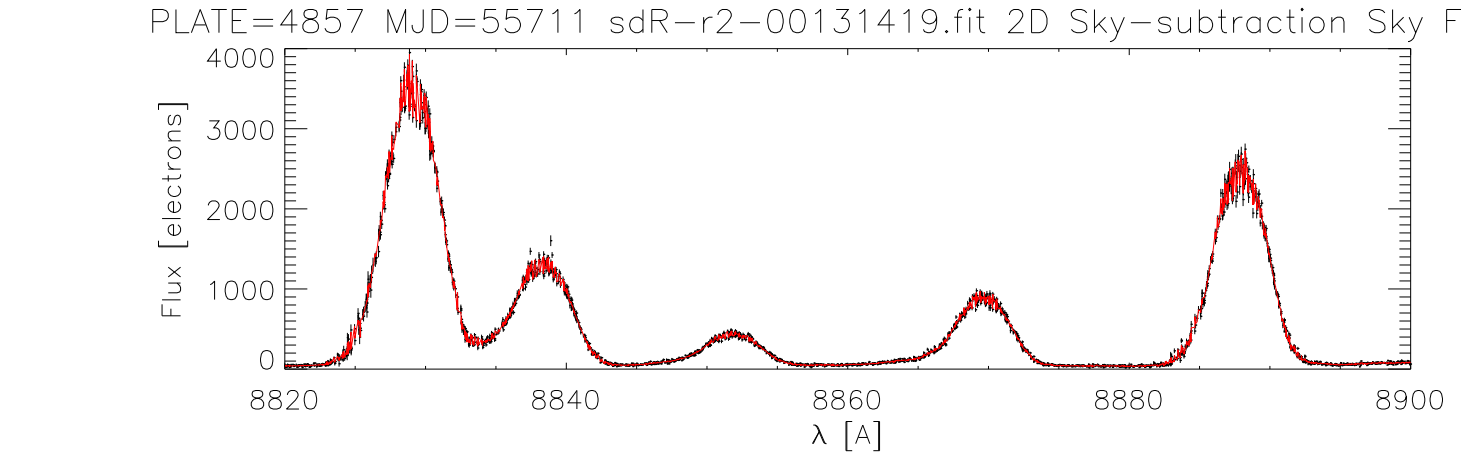

PLATE=4857 MJD=55711 sdR-r2-00131419.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

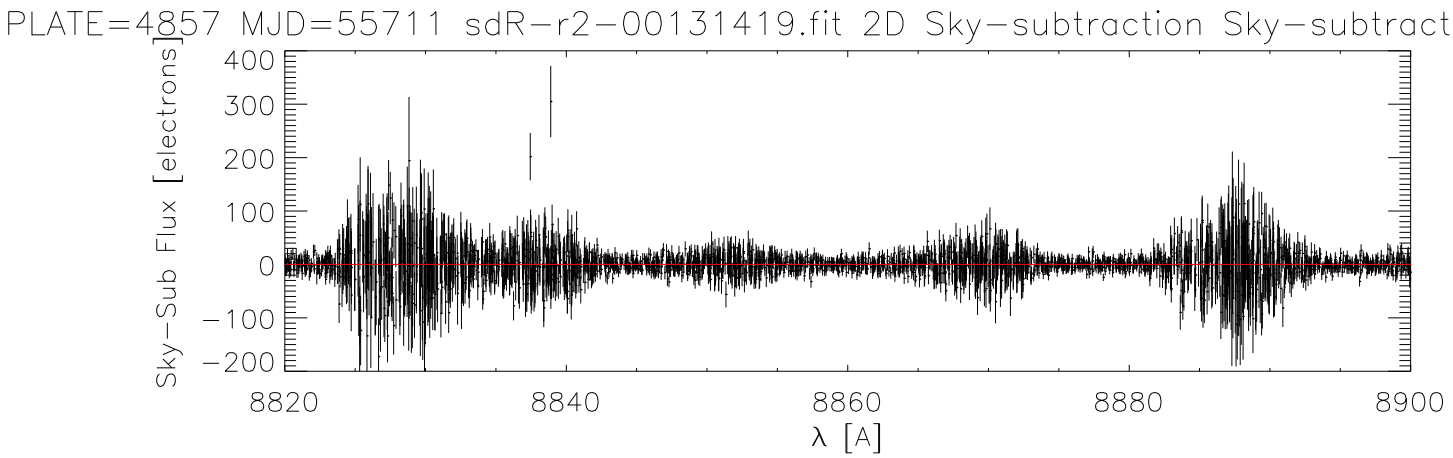

PLATE=4857 MJD=55711 sdR-r2-00131419.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 49

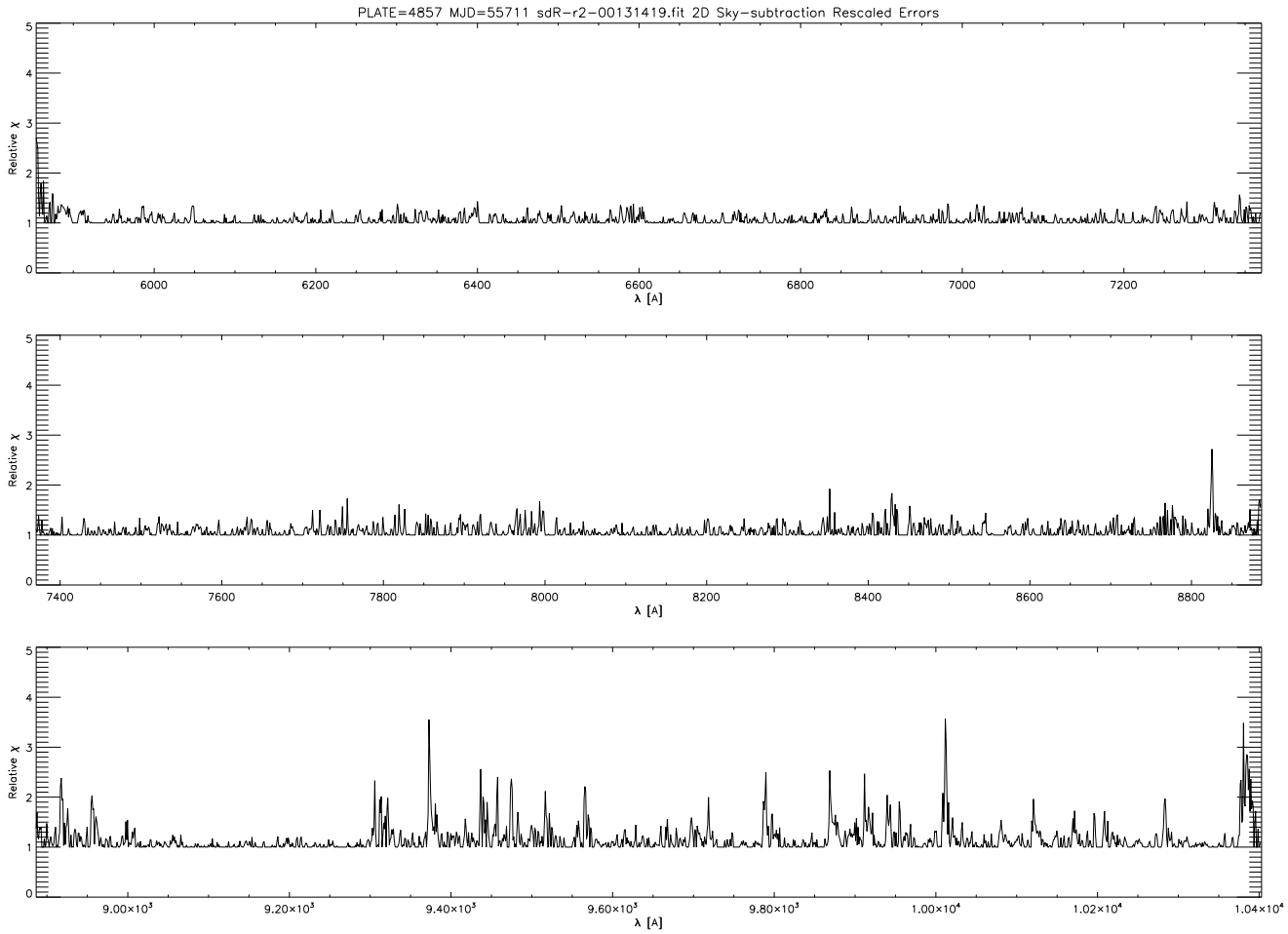


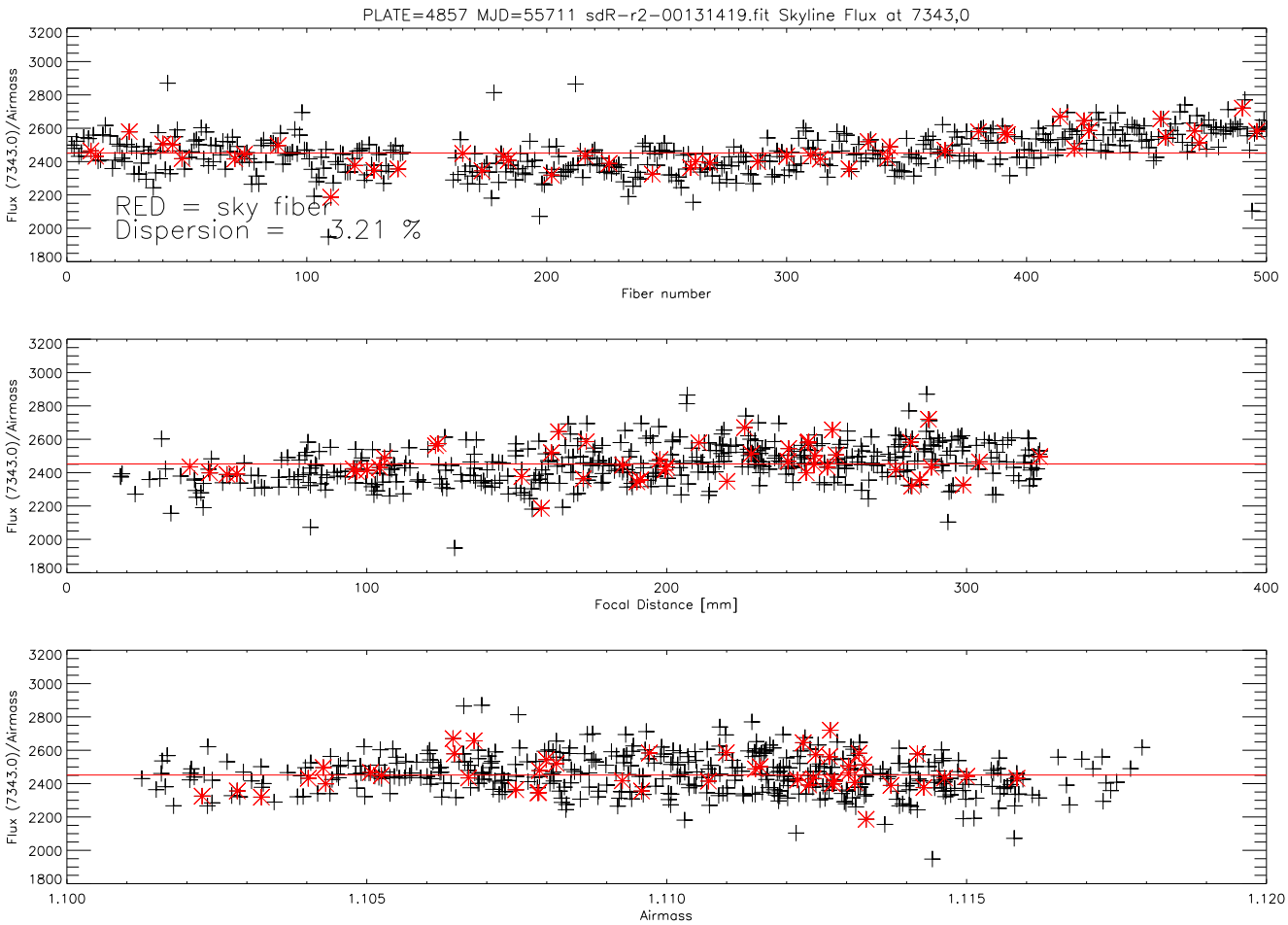

PLATE=4857 MJD=55711 sdR-r2-00131419.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

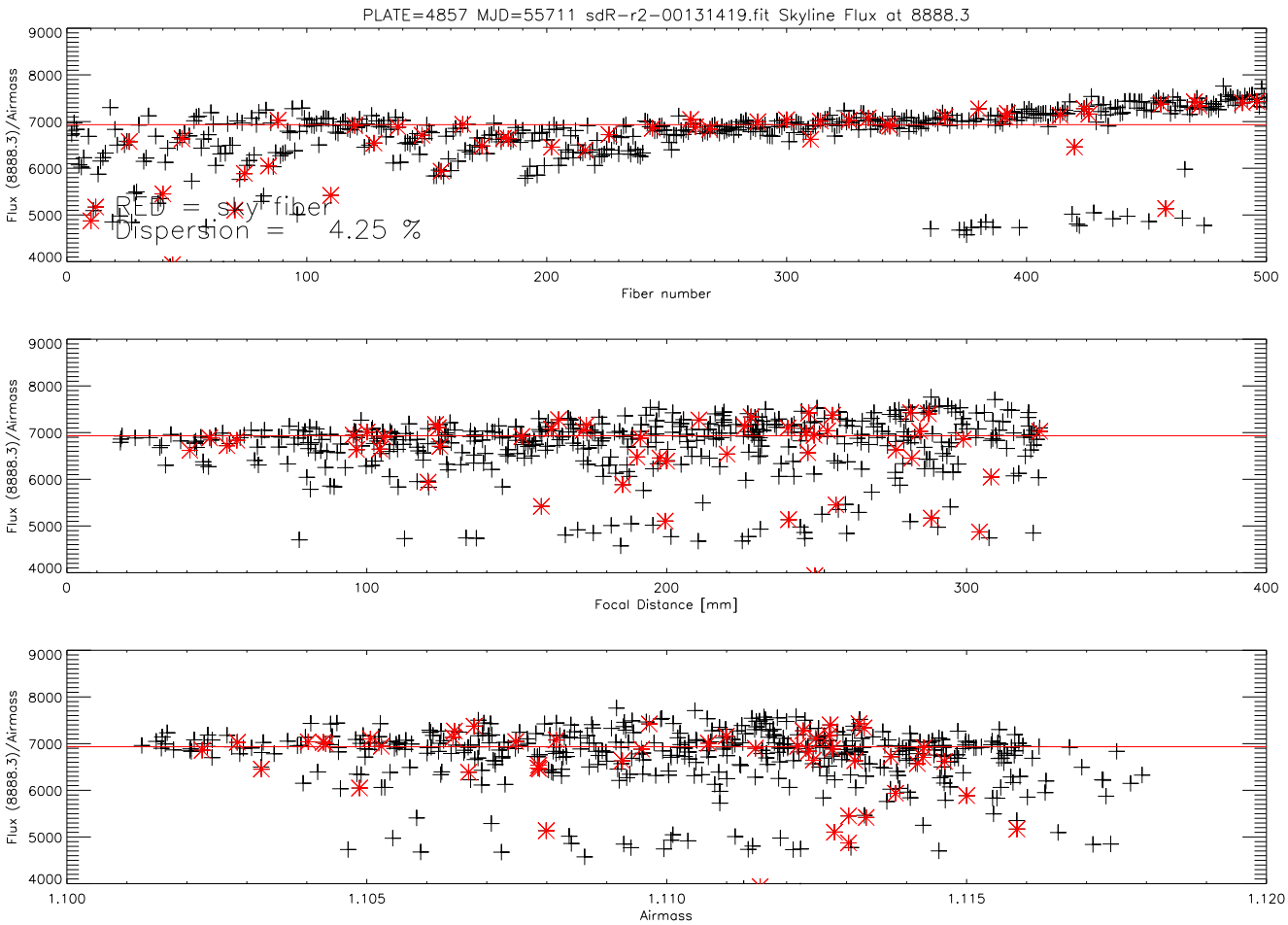

PLATE=4857 MJD=55711 sdR-r2-00131419.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]


PLATE=4857 MJD=55711 sdR-r2-00131419.fit 2D 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 = 49




PLATE=4857 MJD=55711 sdR-r2-00131419.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 3.21 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass


PLATE=4857 MJD=55711 sdR-r2-00131419.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 4.25 %
Focal Distance [mm]
Airmass