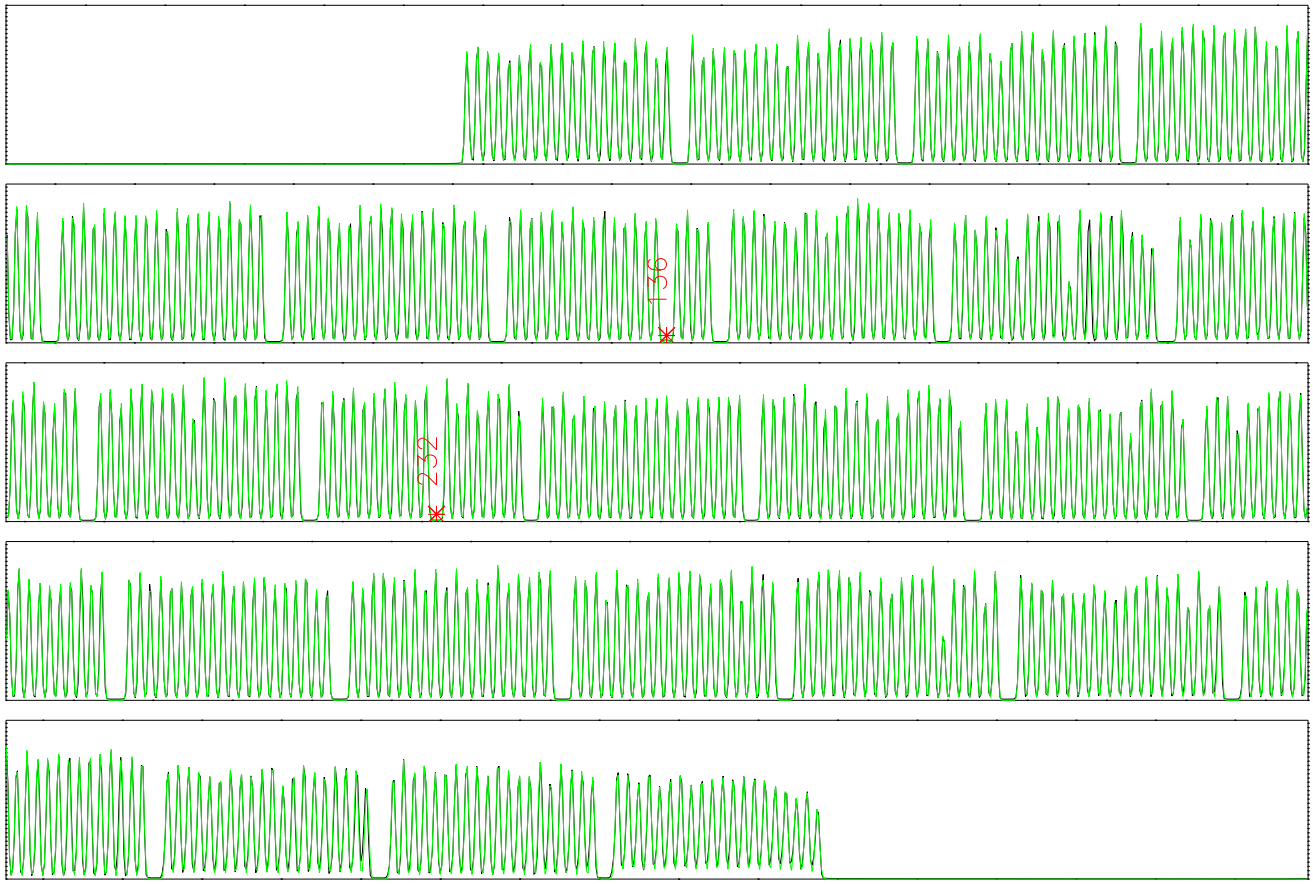
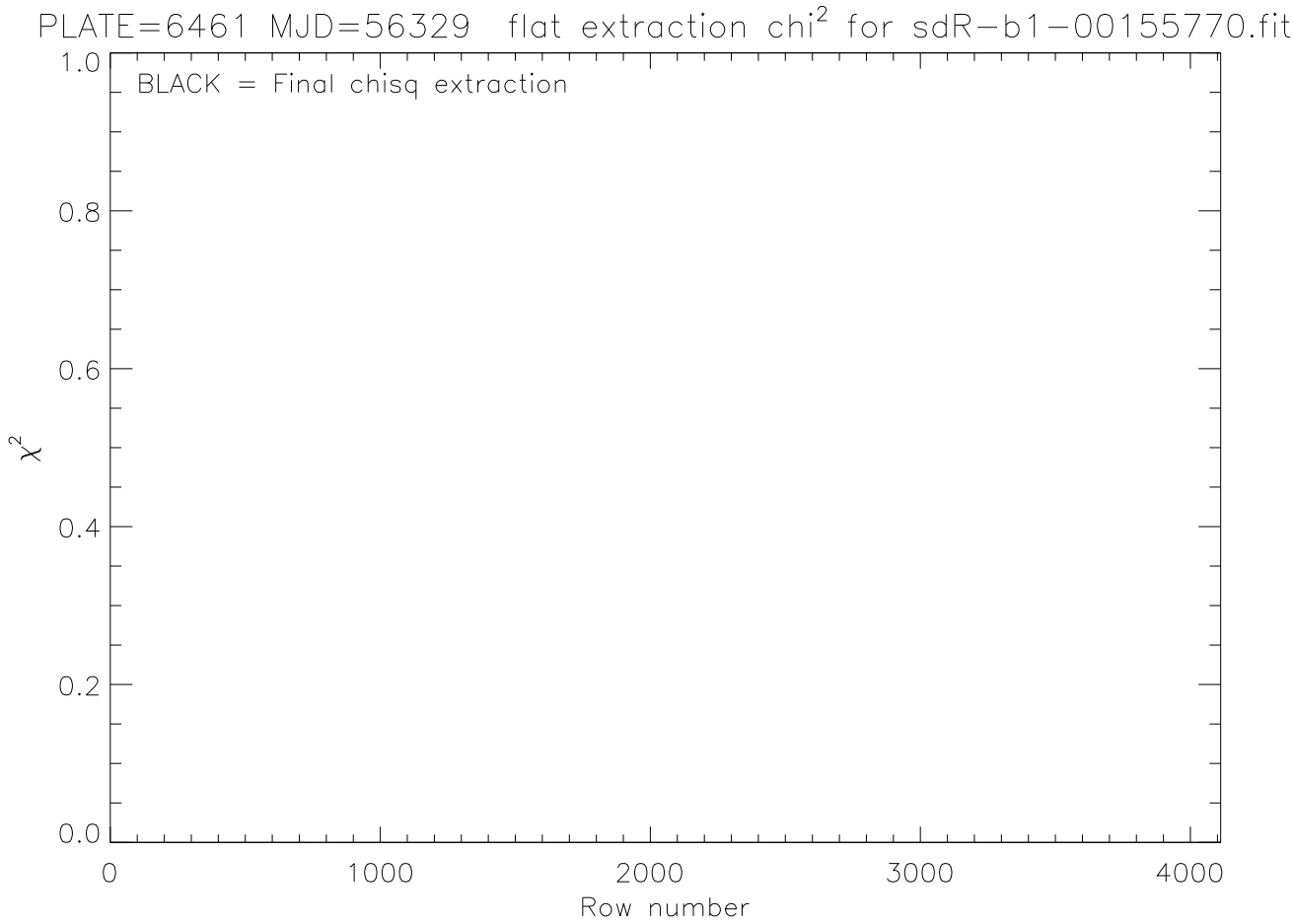
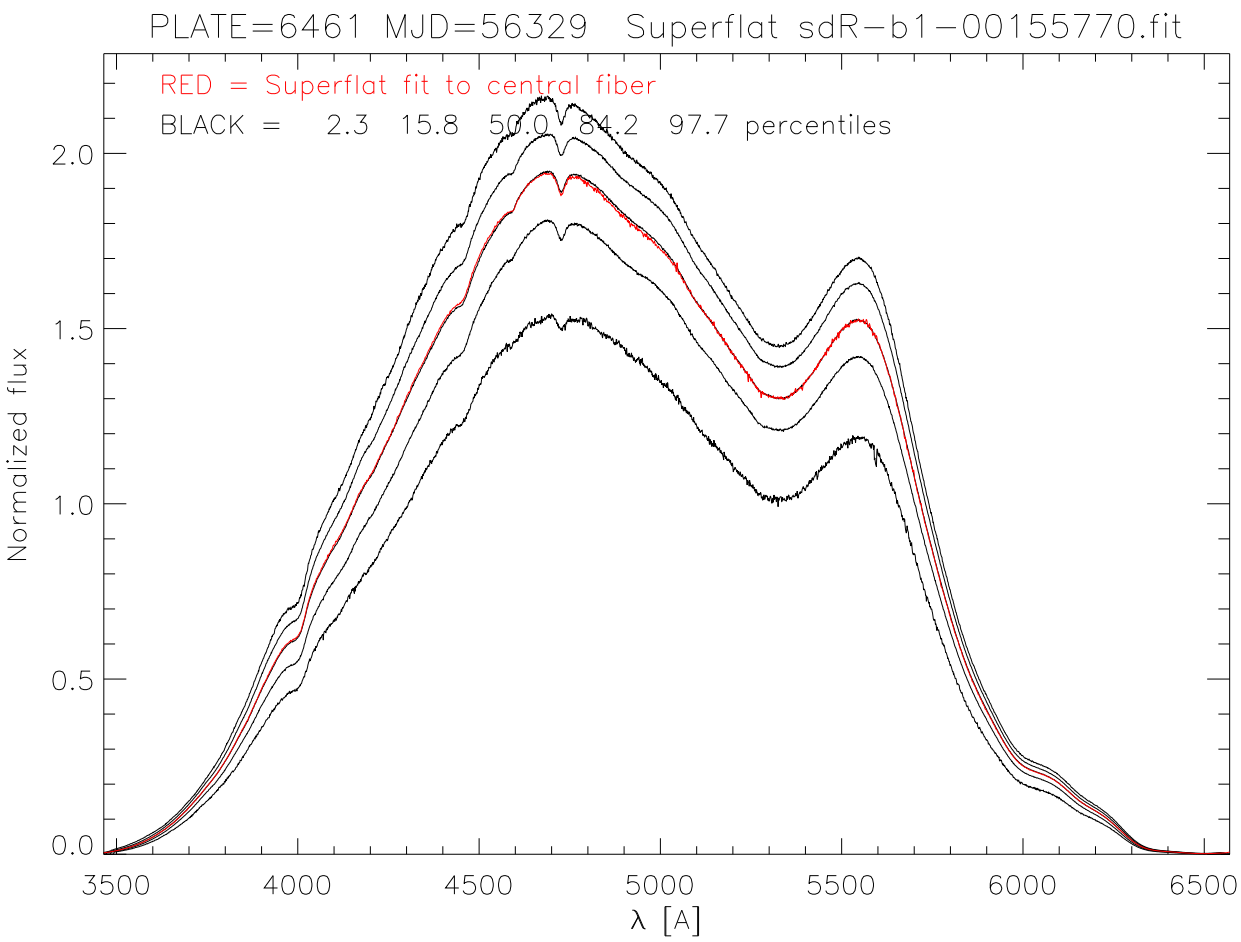
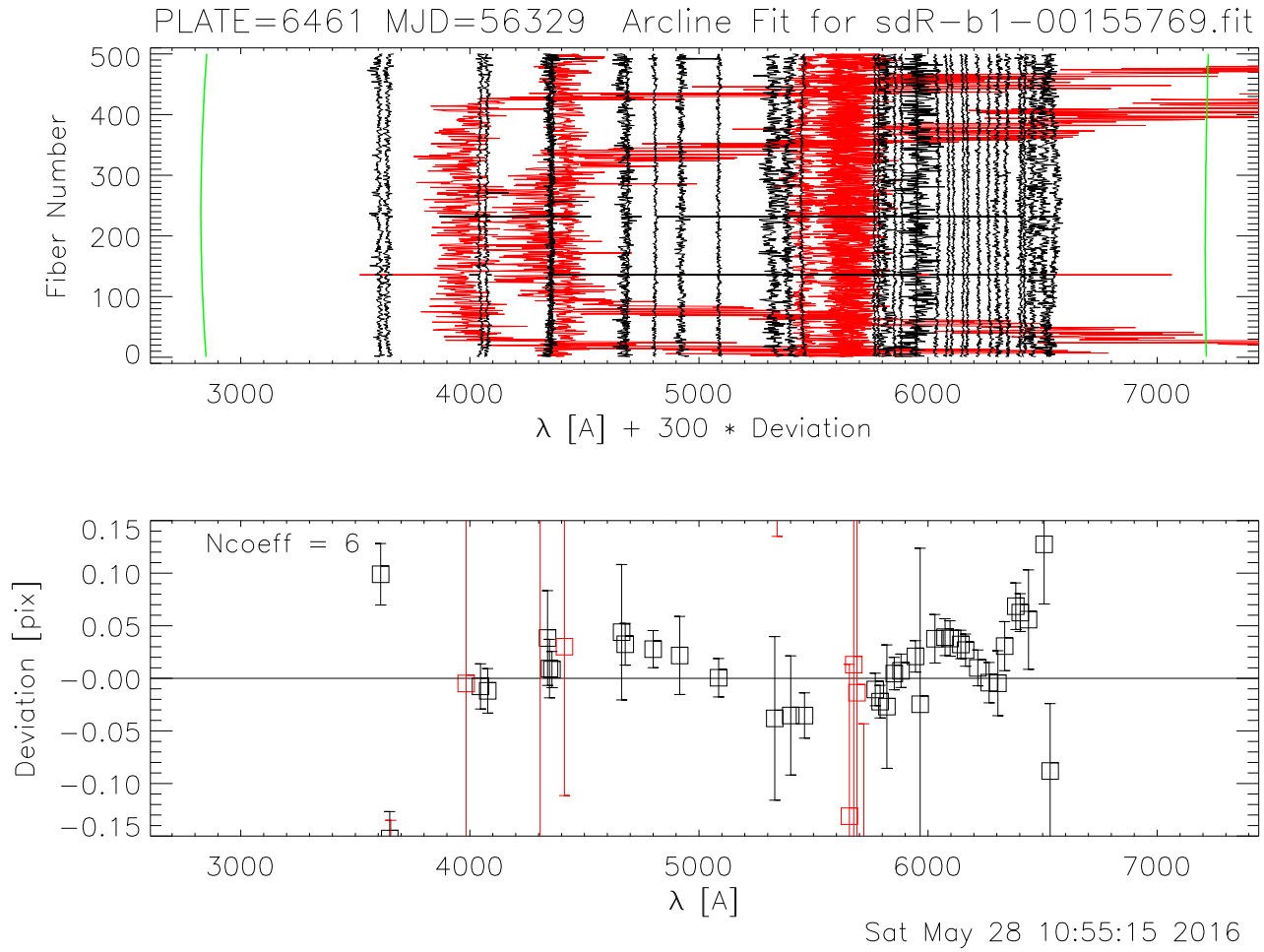
PLATE=6461 MJD=56329 Traces sdR-b1-00155770.fit

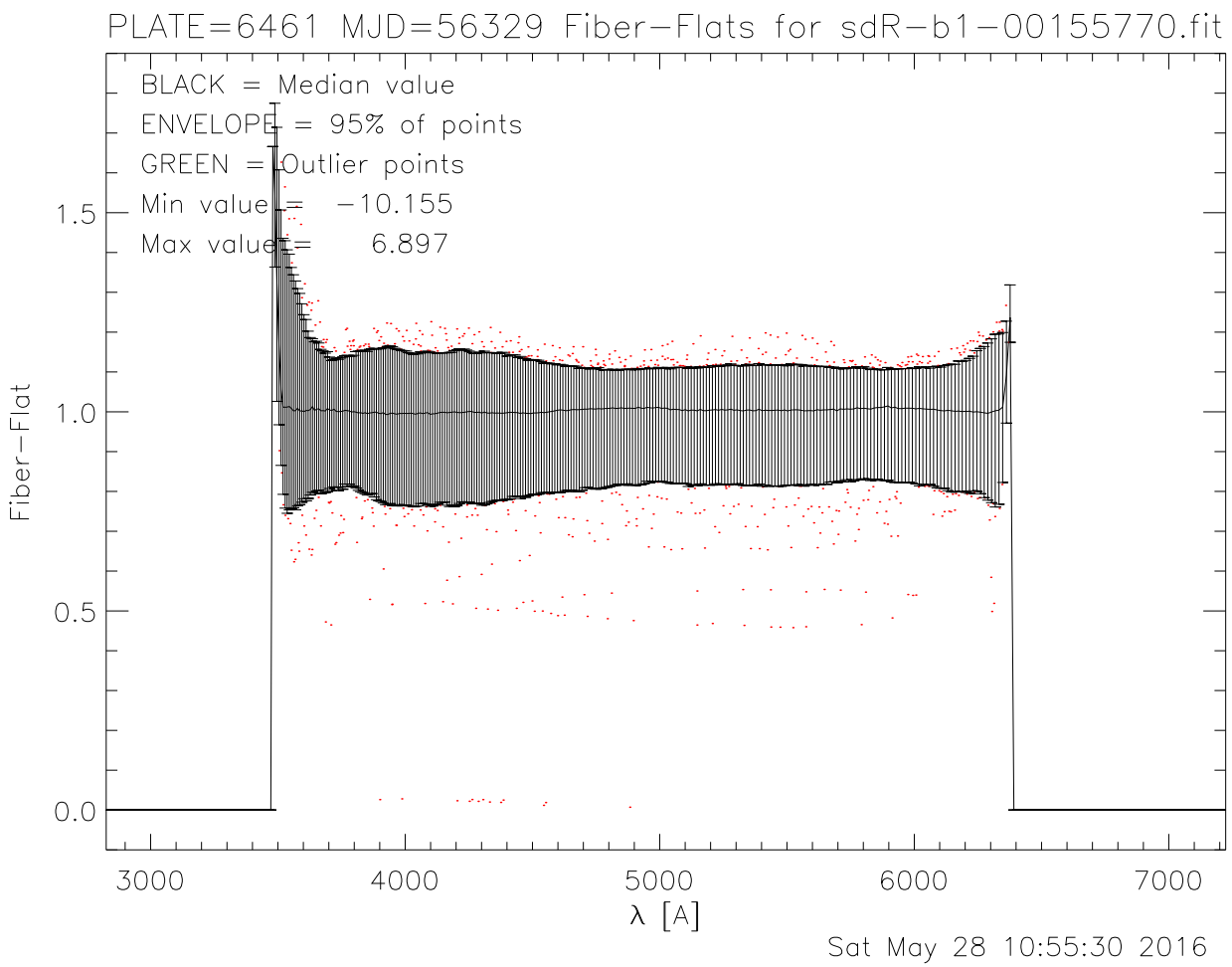


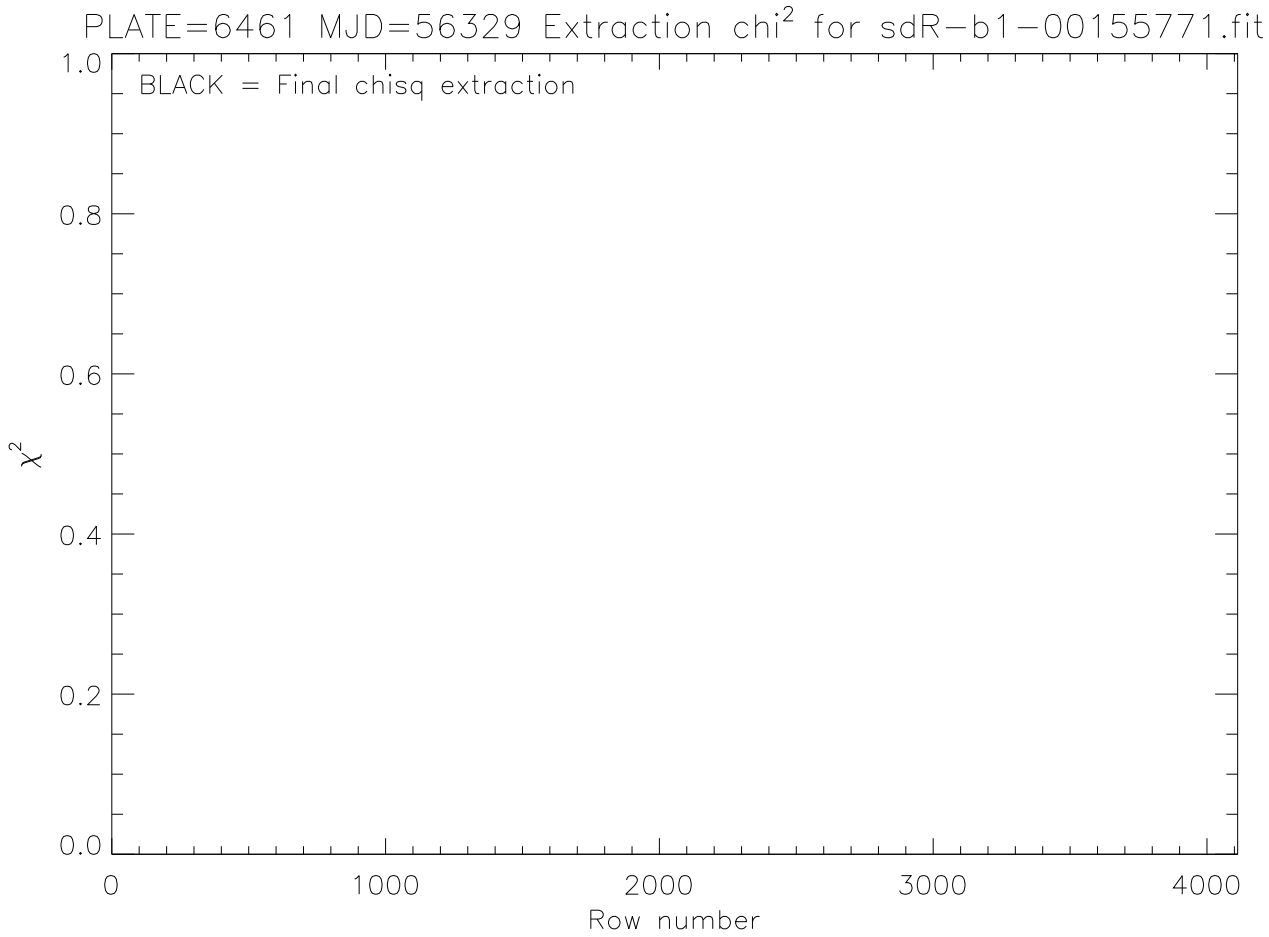

PLATE=6461 MJD=56329 flat extraction chi^2 for sdR−b1−00155770.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number

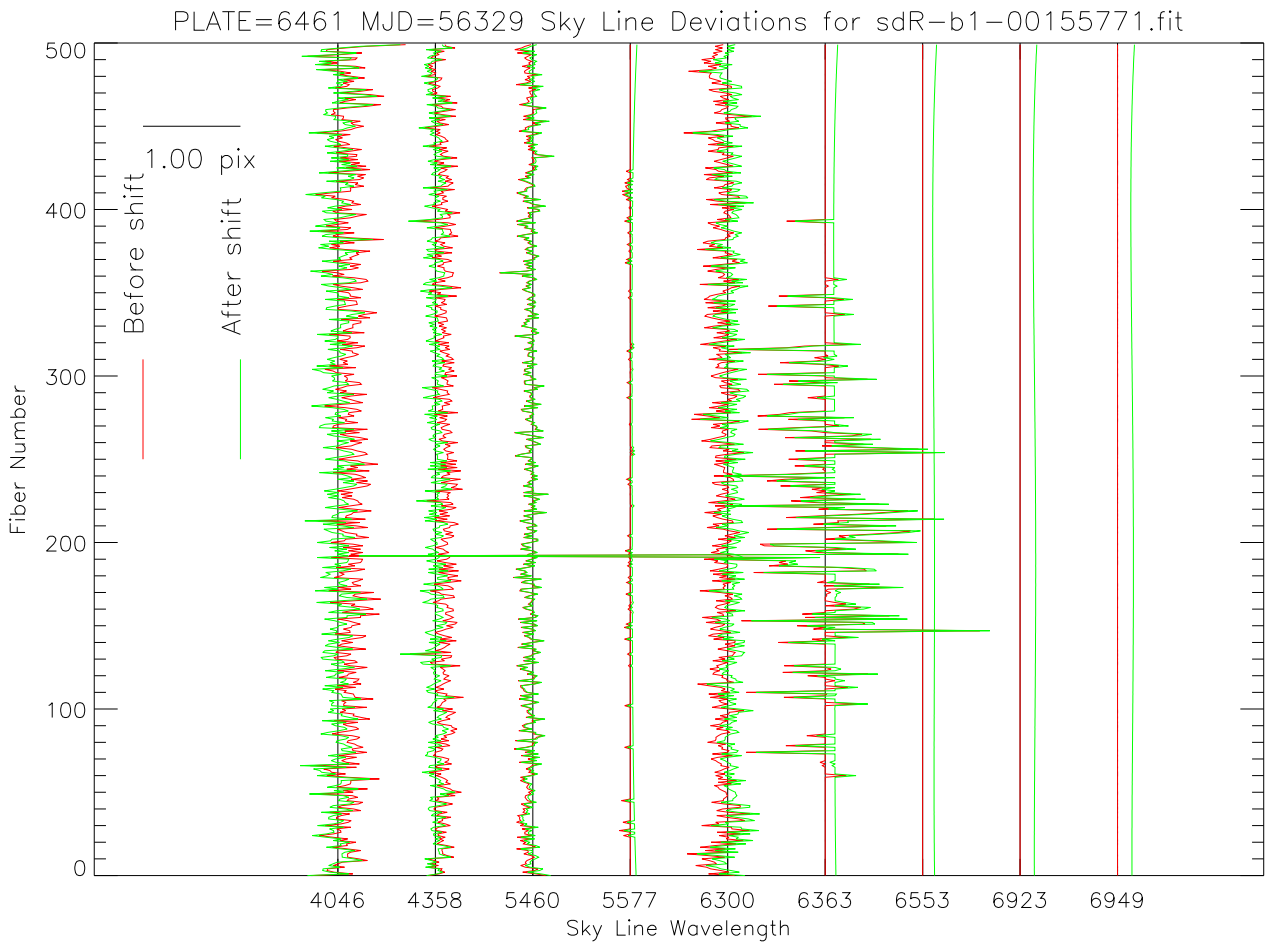

PLATE=6461 MJD=56329 Superflat sdR-b1-00155770.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
3500
4000
4500
5000
5500
6000
6500

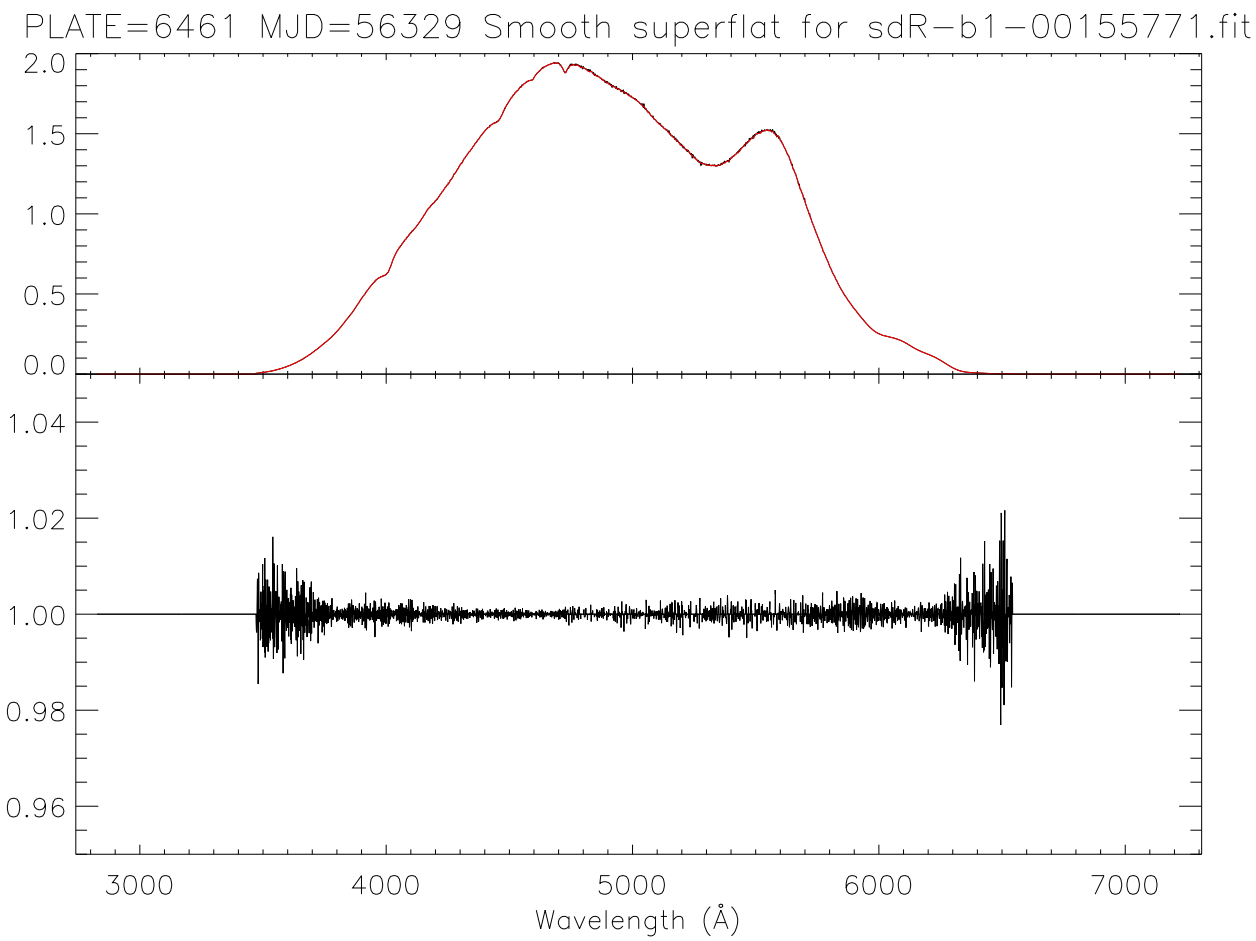

PLATE=6461 MJD=56329 Arcline Fit for sdR-b1-00155769.fit
Fiber Number
500
400
300
200
100
0
3000
4000
5000
6000
7000
λ [A] + 300 * Deviation

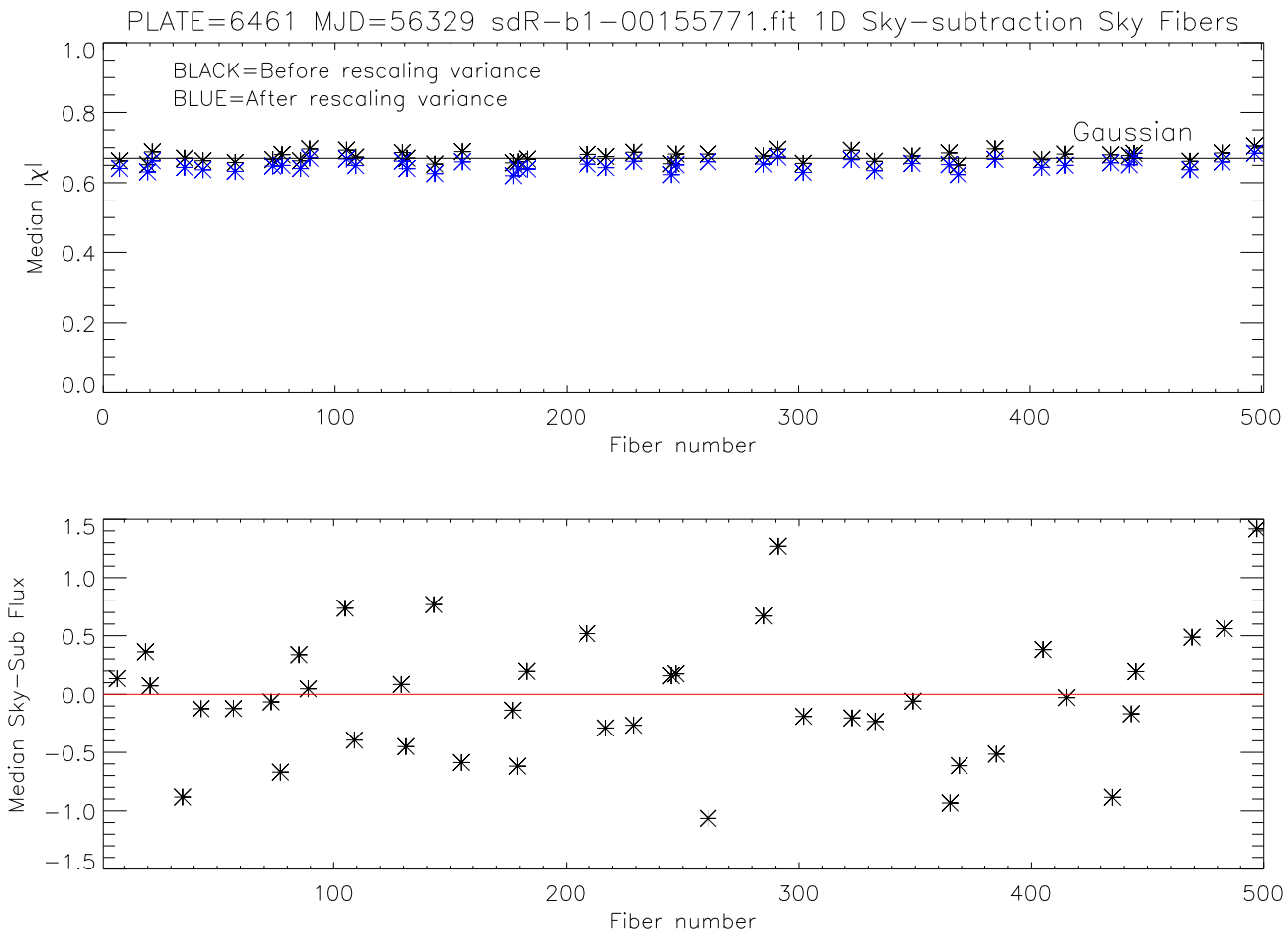
Ncoeff = 6
Deviation [pix]
0.15
0.10
0.05
−0.00
−0.05
−0.10
−0.15
3000
4000
5000
6000
7000
λ [A]
Sat May 28 10:55:15 2016

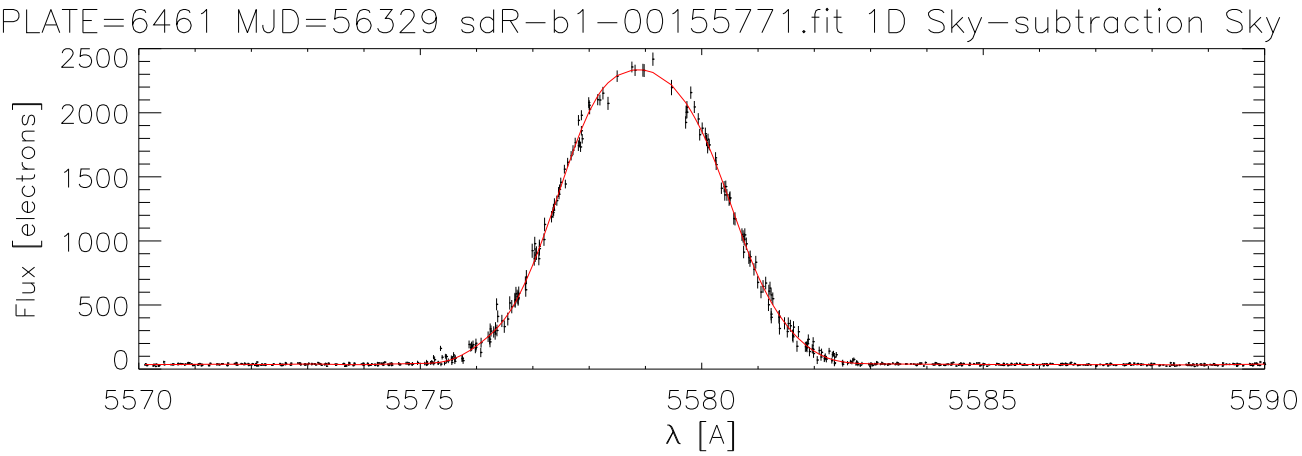

PLATE=6461 MJD=56329 Fiber-Flats for sdR-b1-00155770.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = -10.155
Max value = 6.897
Fiber-Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sat May 28 10:55:30 2016

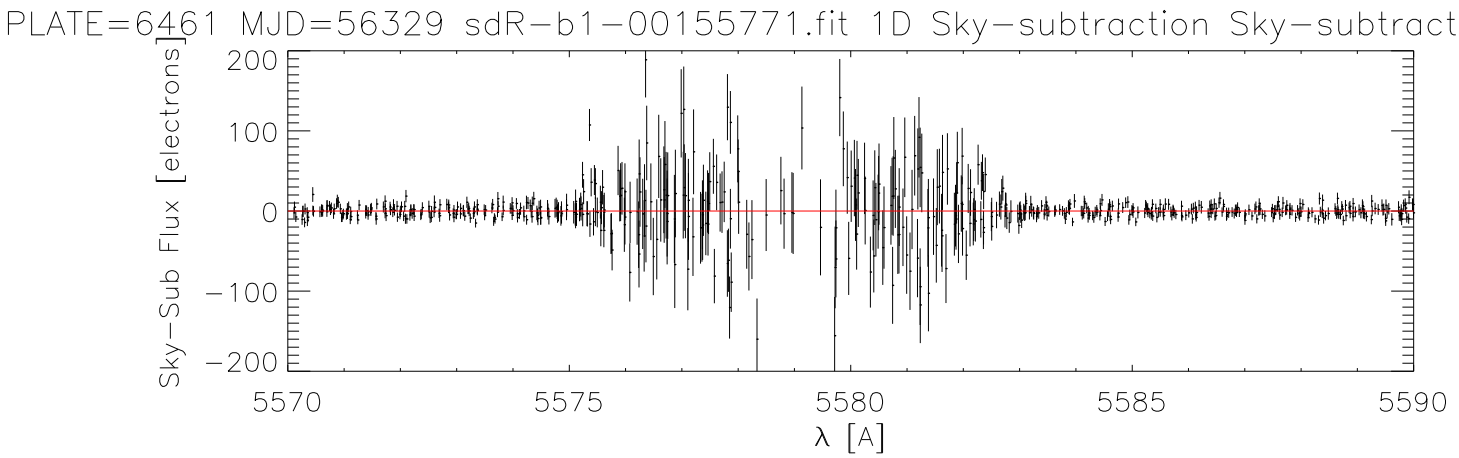

PLATE=6461 MJD=56329 Extraction chi^2 for sdR-b1-00155771.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=6461 MJD=56329 Sky Line Deviations for sdR-b1-00155771.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

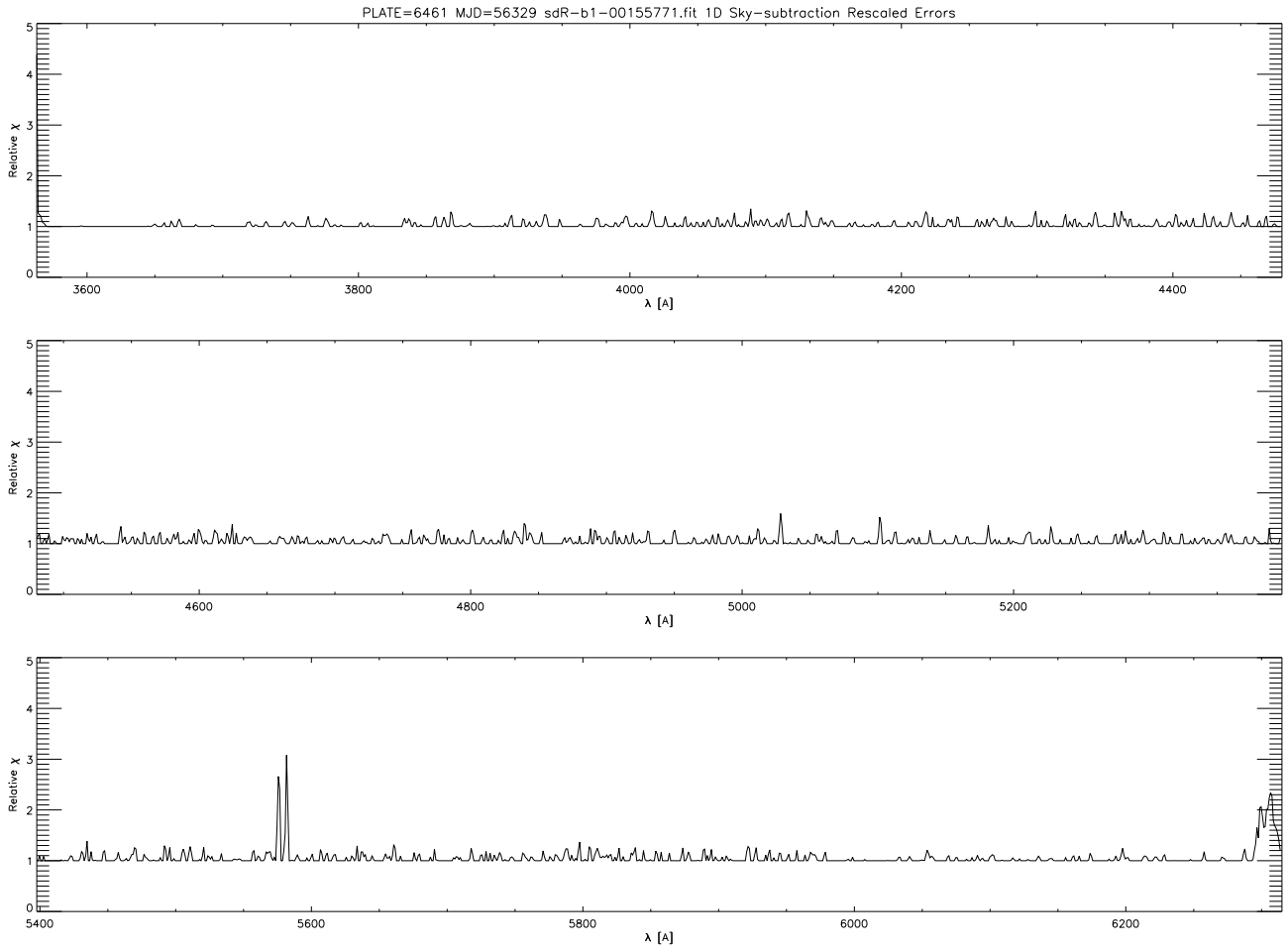

PLATE=6461 MJD=56329 Smooth superflat for sdR-b1-00155771.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

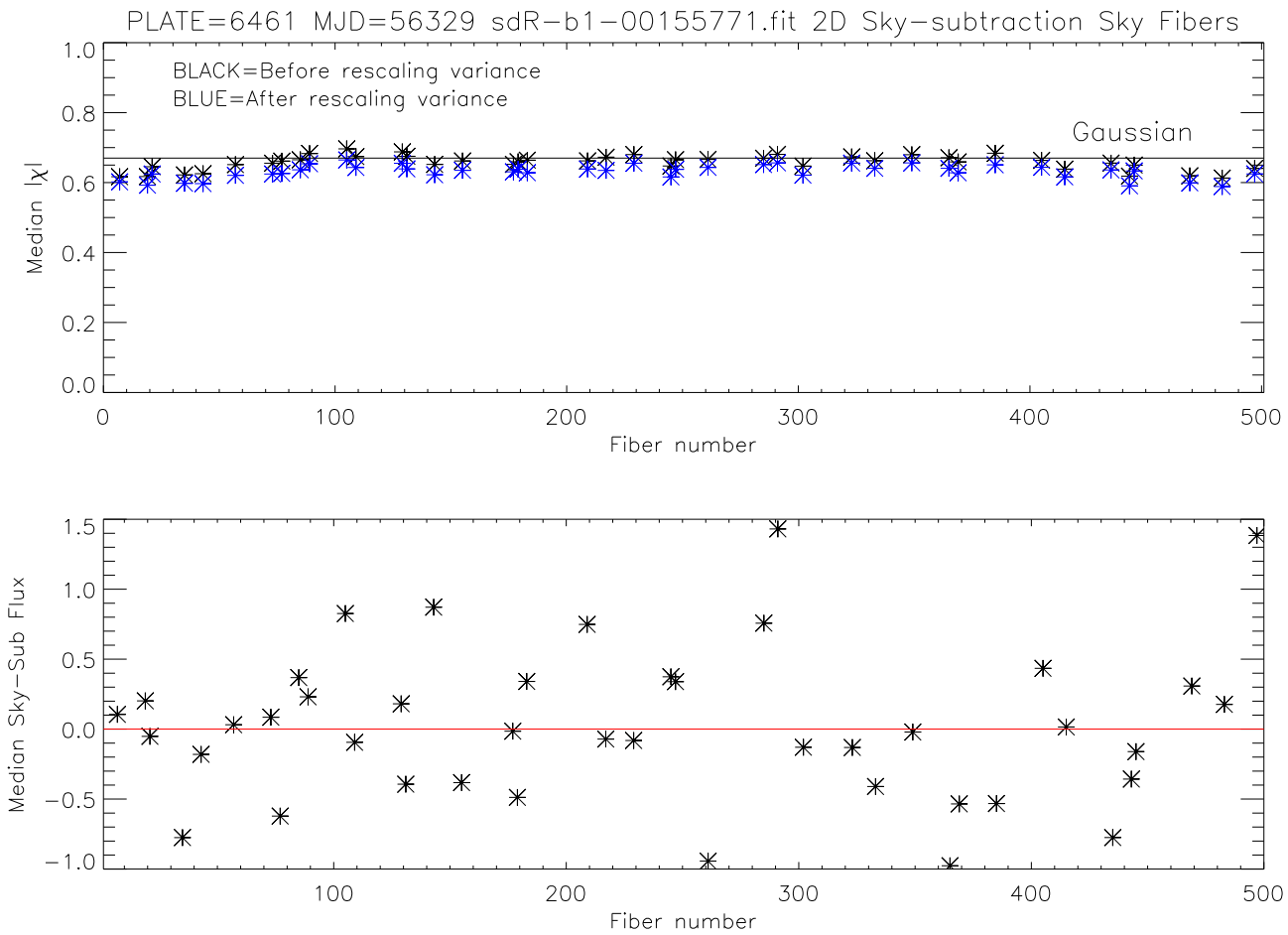

PLATE=6461 MJD=56329 sdR-b1-00155771.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

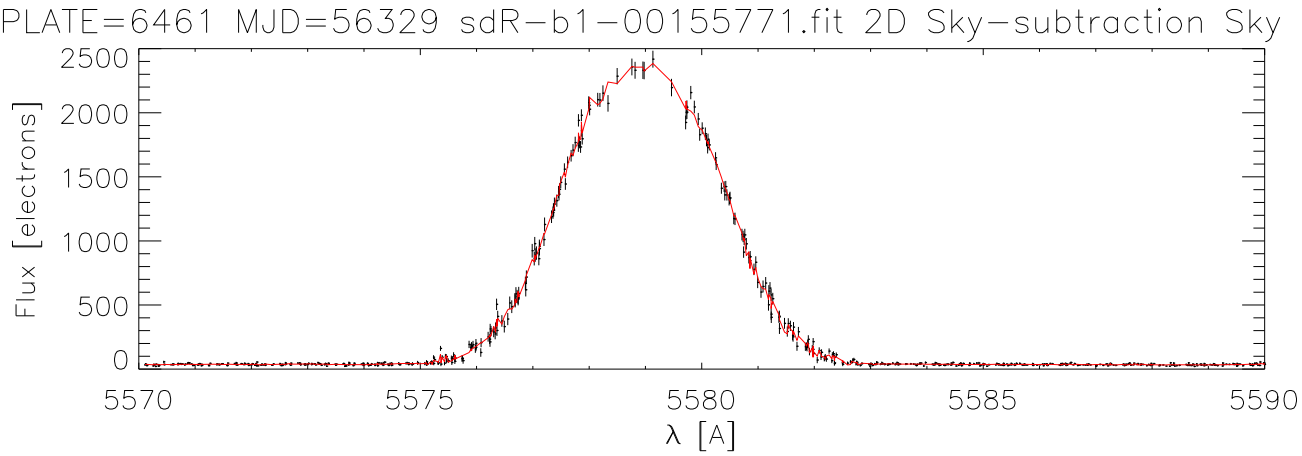

PLATE=6461 MJD=56329 sdR-b1-00155771.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

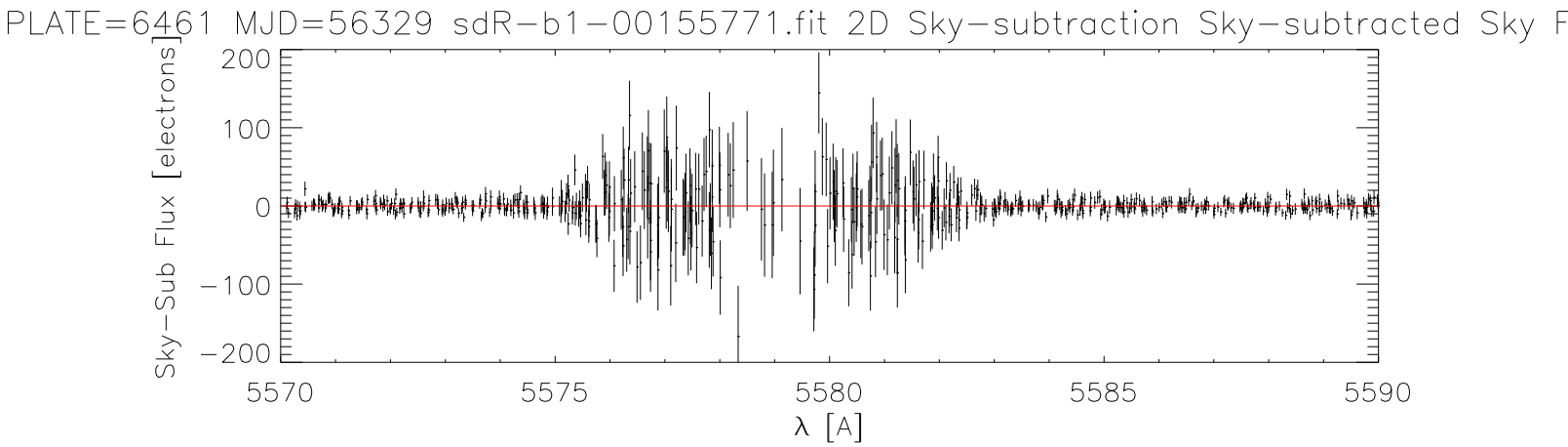

PLATE=6461 MJD=56329 sdR-b1-00155771.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 42

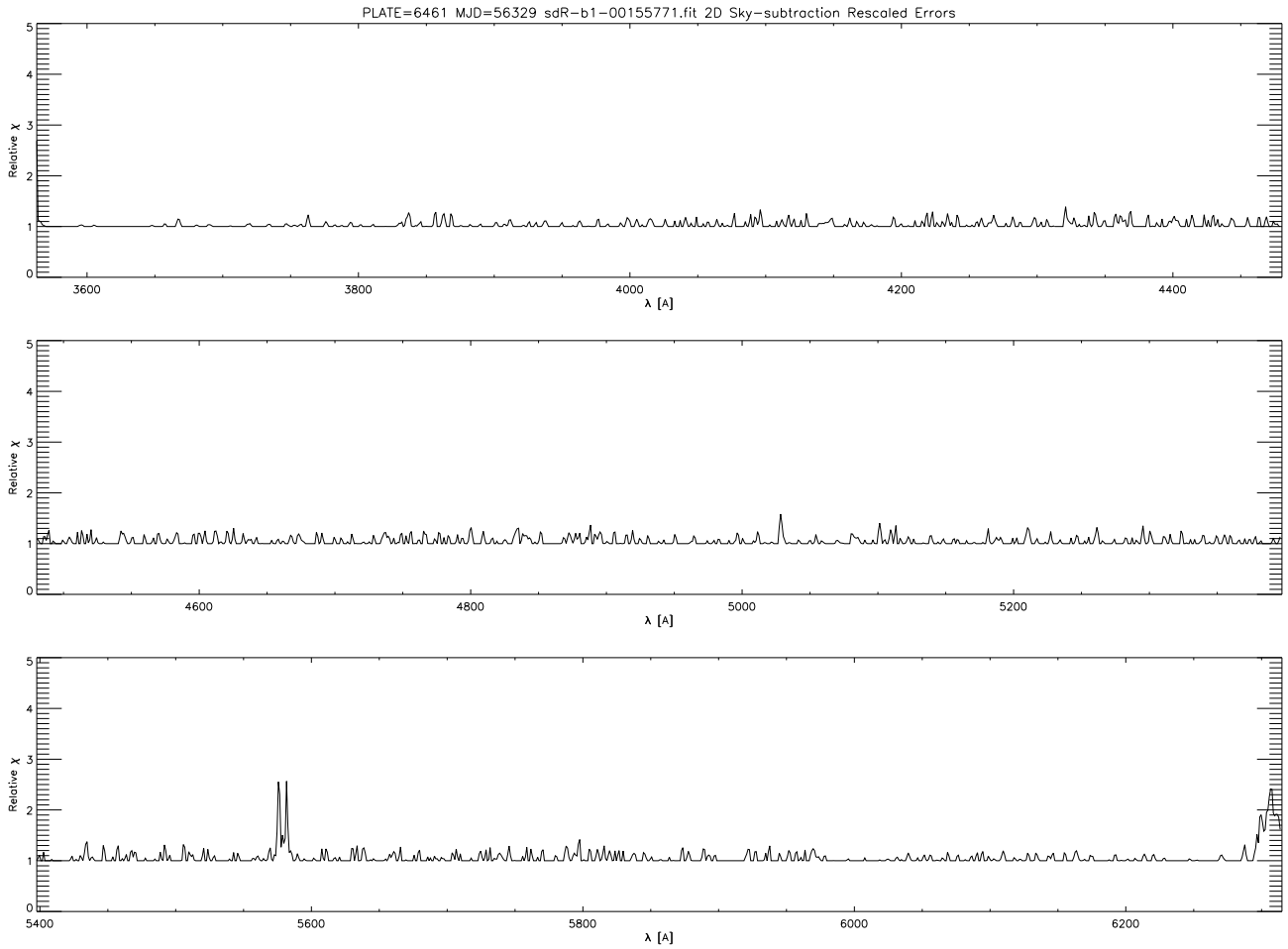


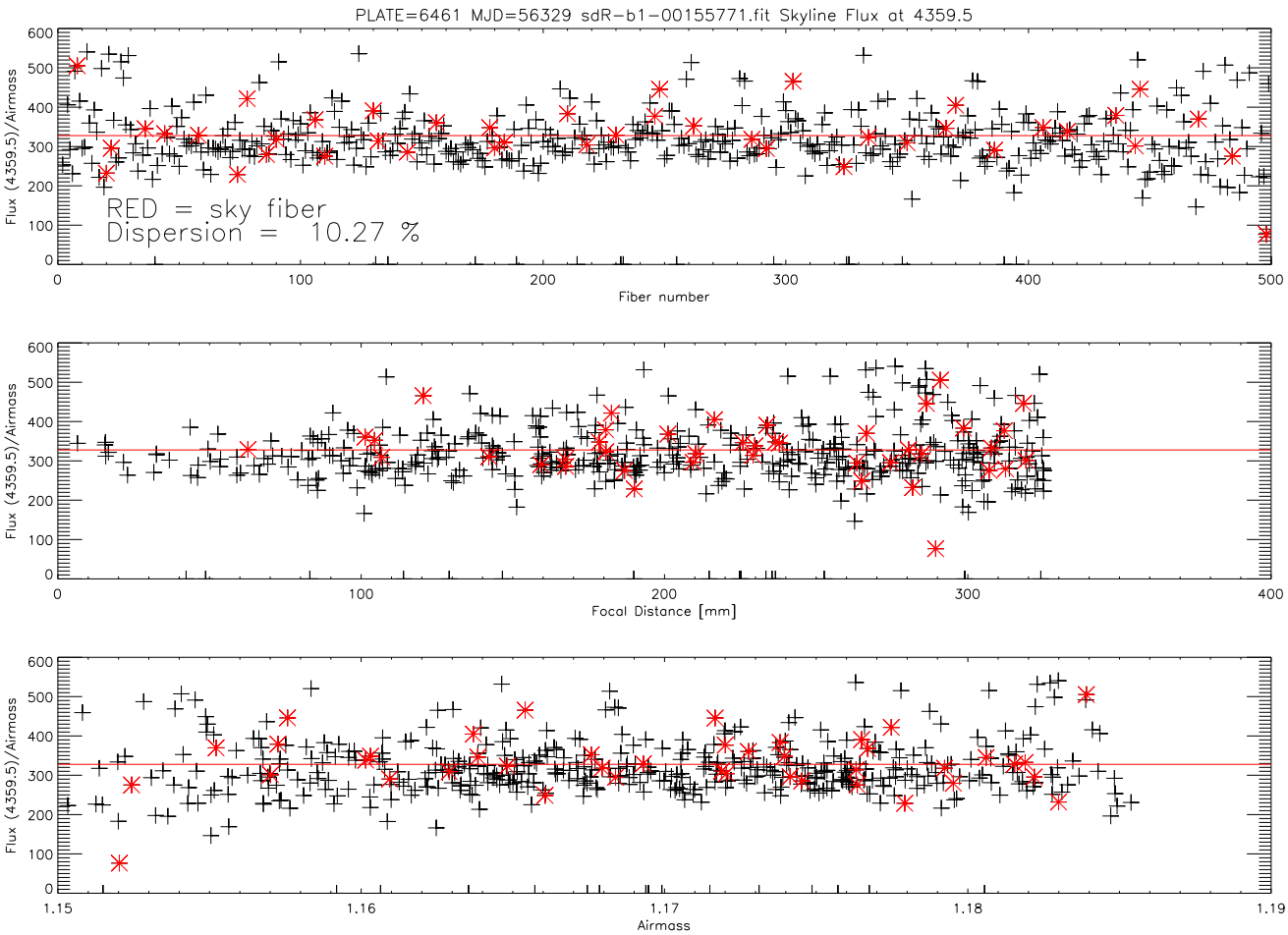

PLATE=6461 MJD=56329 sdR-b1-00155771.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

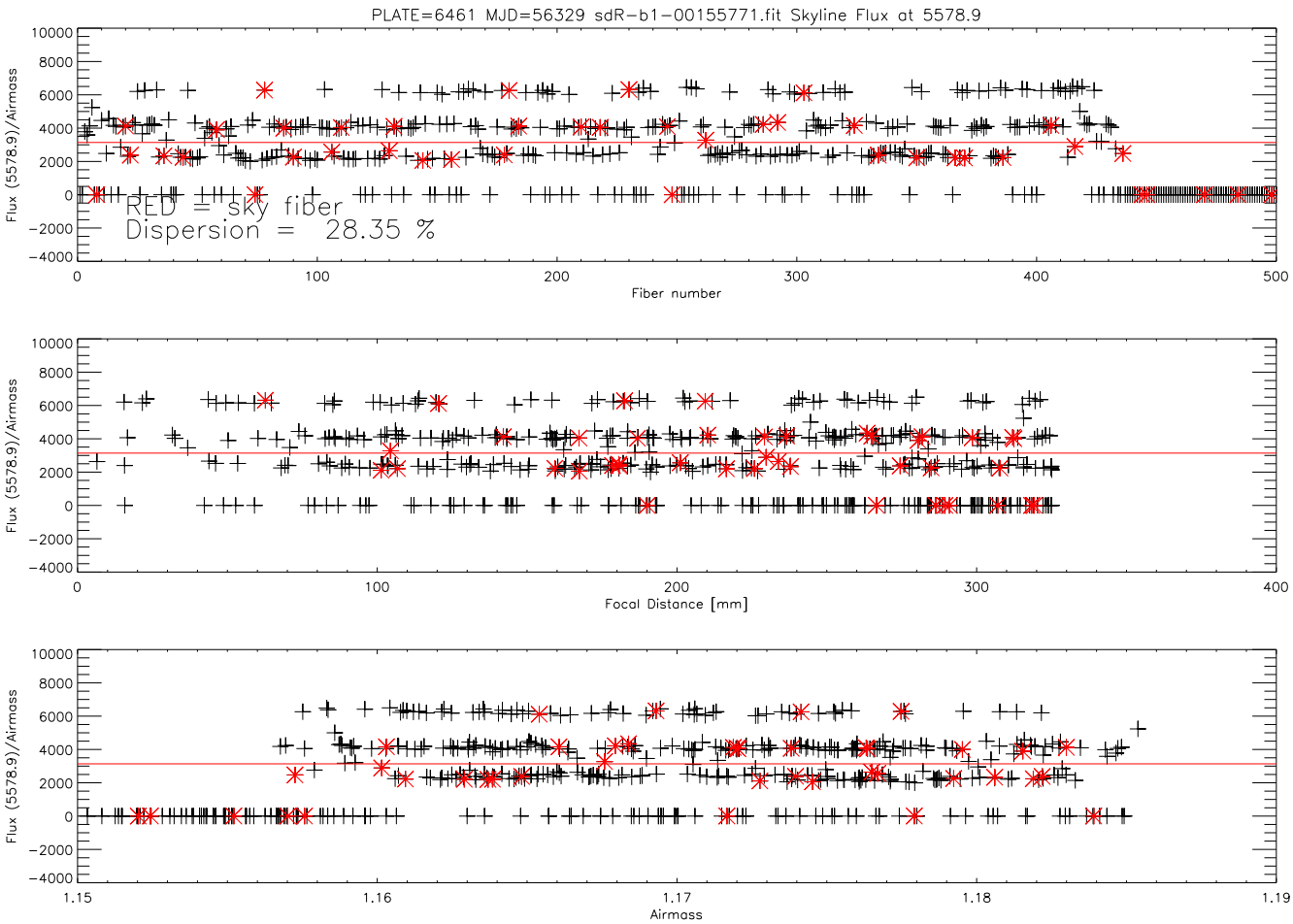

PLATE=6461 MJD=56329 sdR-b1-00155771.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

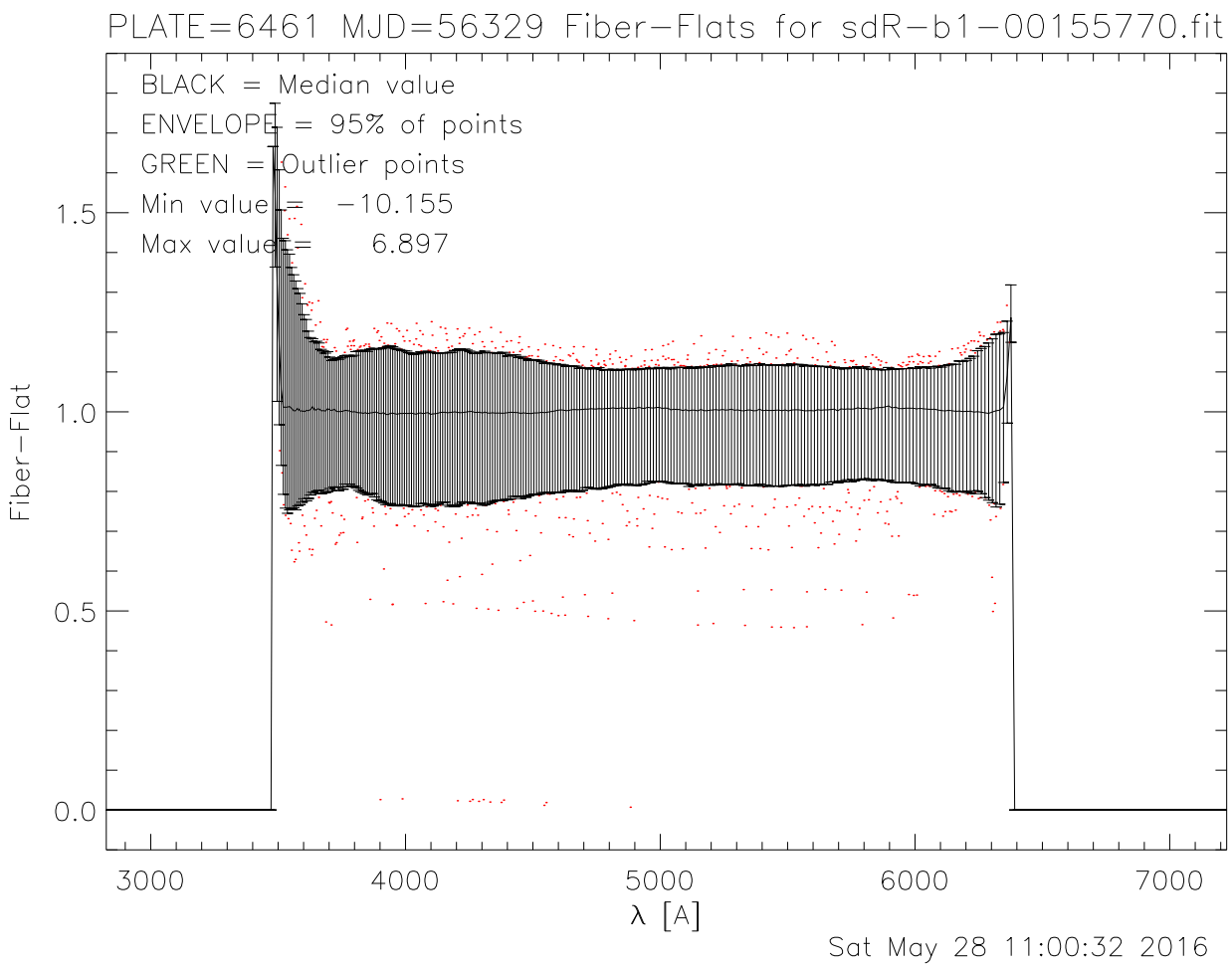

PLATE=6461 MJD=56329 sdR-b1-00155771.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

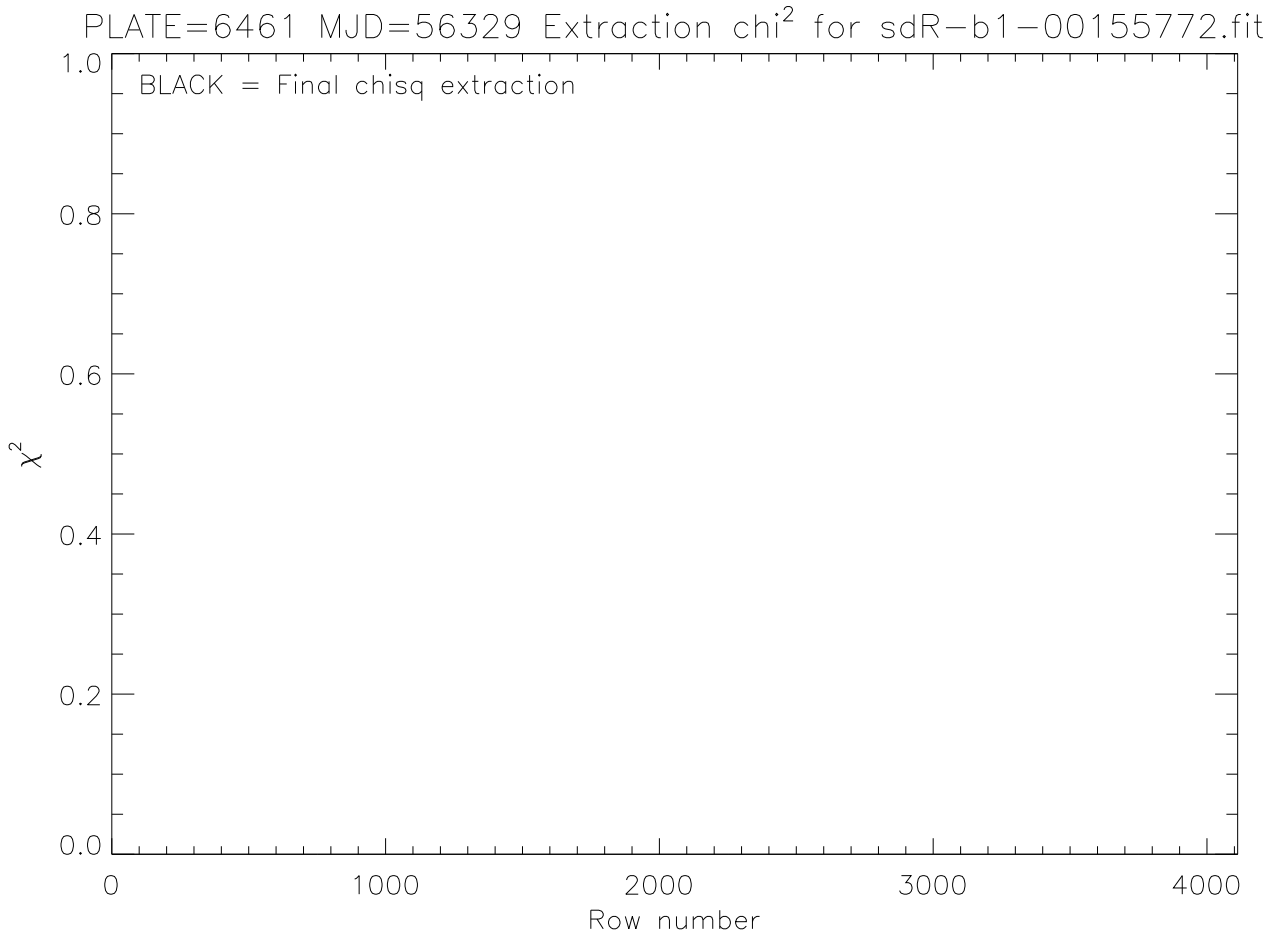
Number of sky fibers = 42

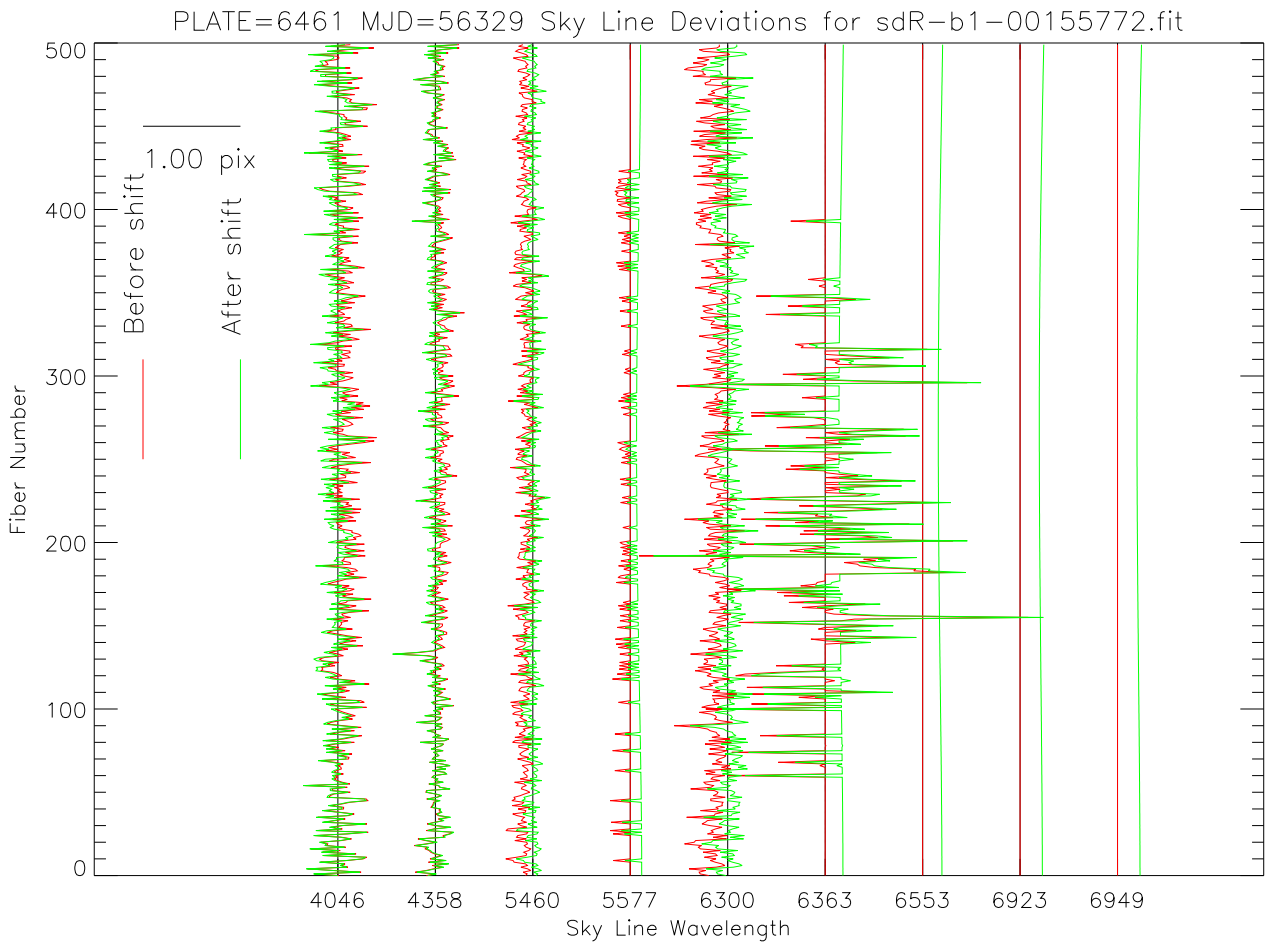


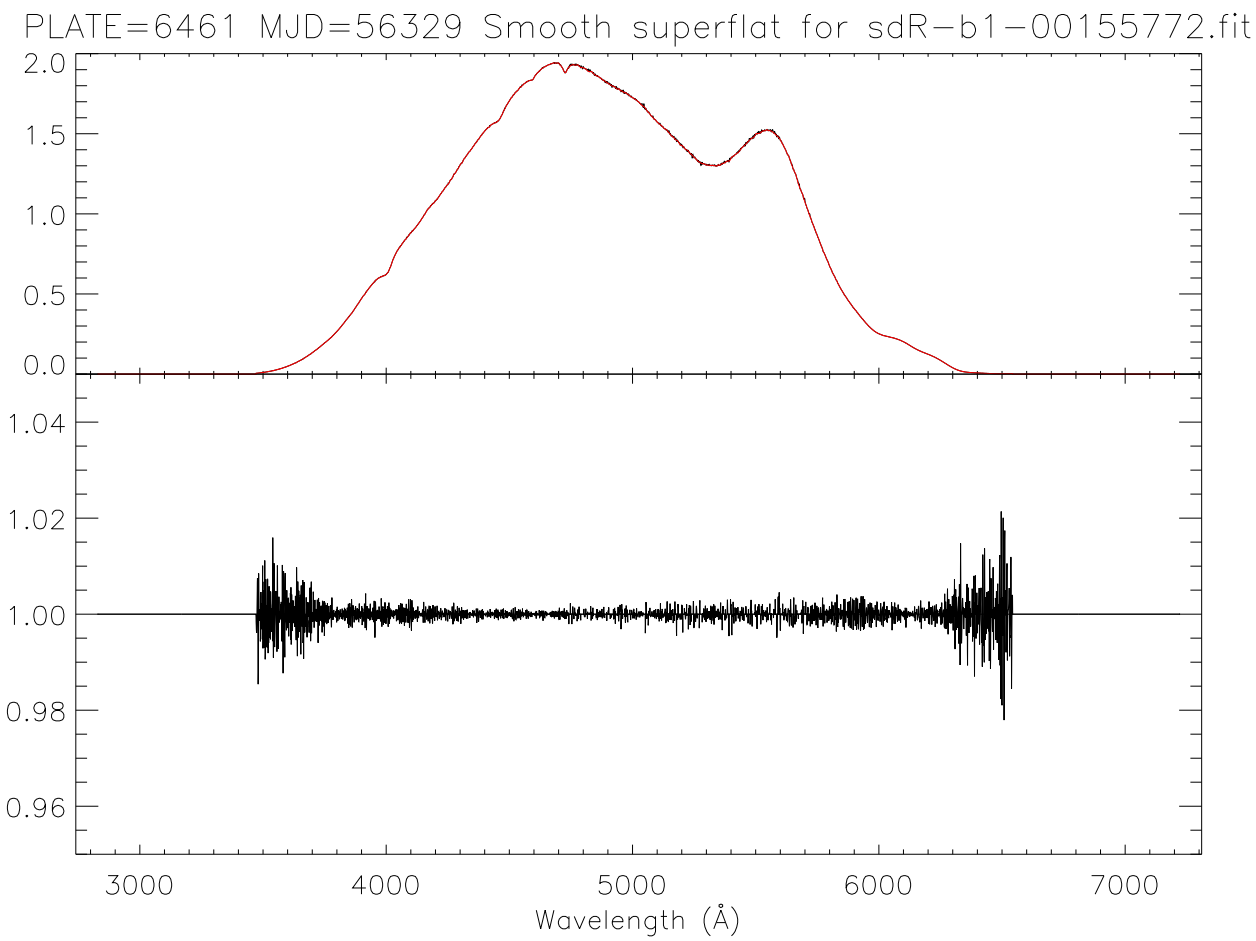

PLATE=6461 MJD=56329 sdR-b1-00155771.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 10.27 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

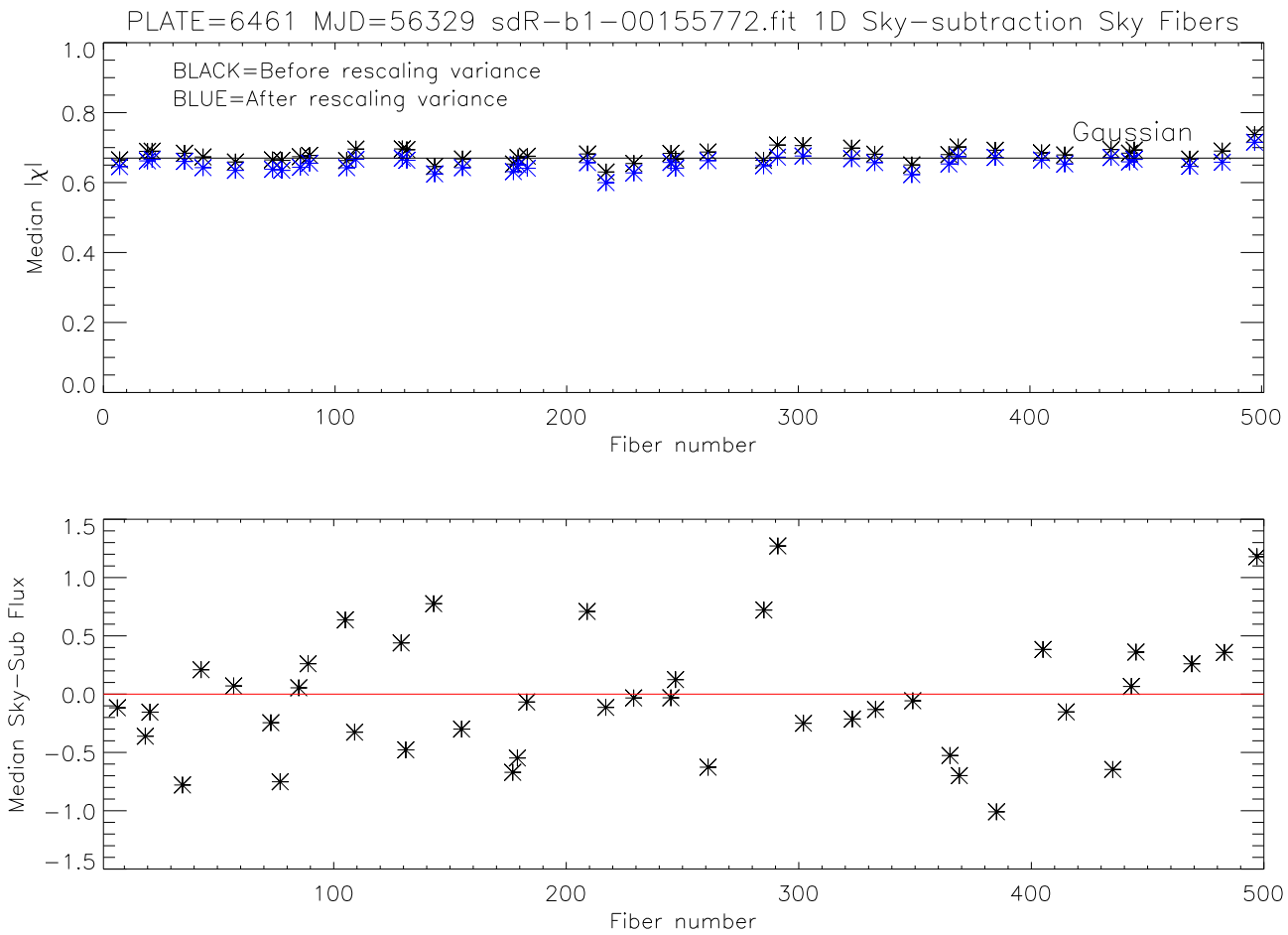

PLATE=6461 MJD=56329 sdR-b1-00155771.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 28.35 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

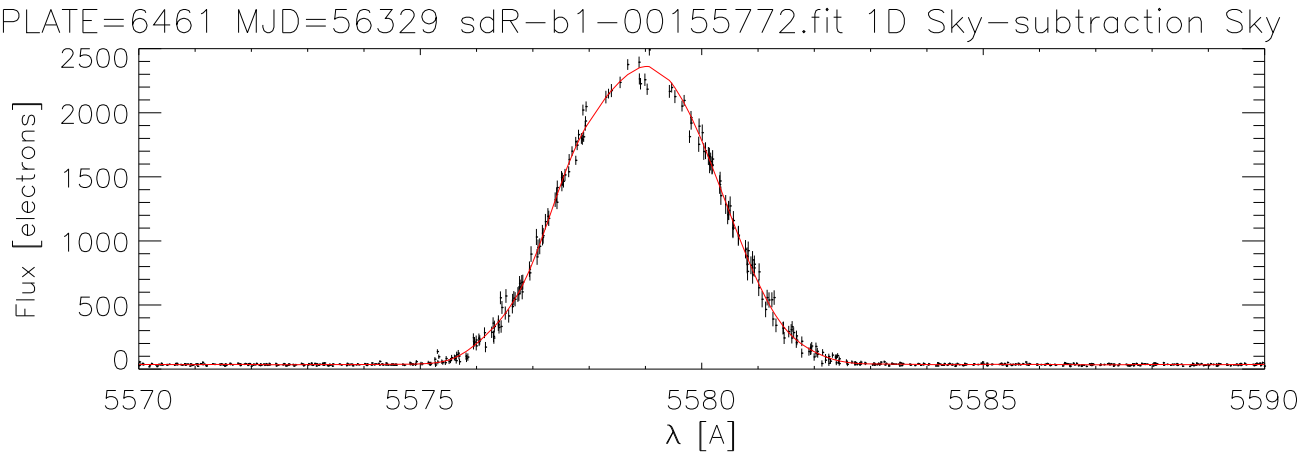

PLATE=6461 MJD=56329 Fiber−Flats for sdR−b1−00155770.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −10.155
Max value = 6.897
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sat May 28 11:00:32 2016

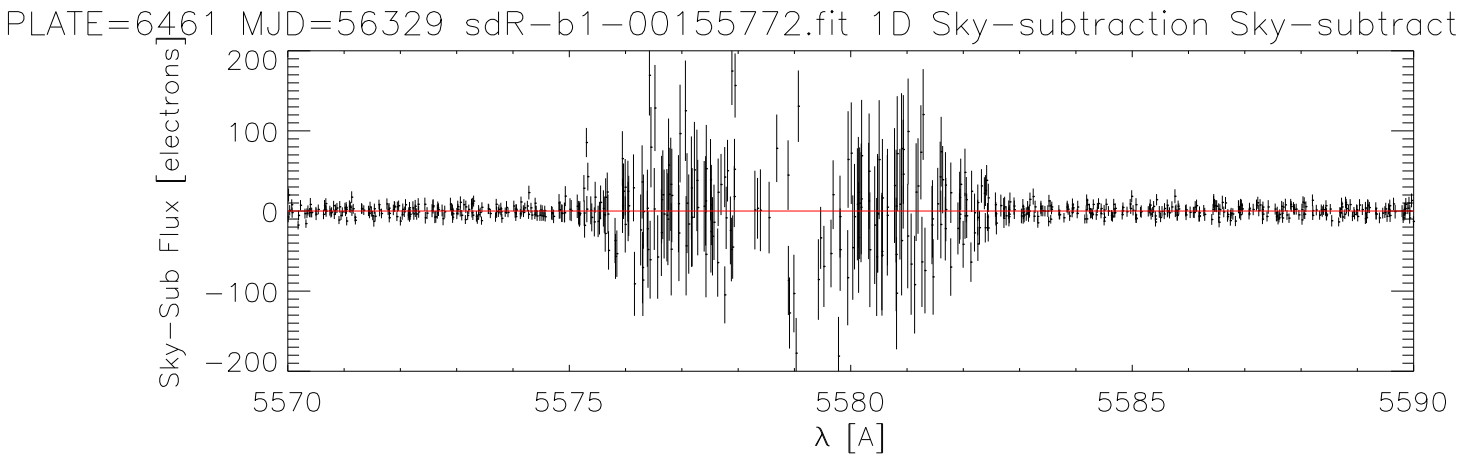

PLATE=6461 MJD=56329 Extraction chi^2 for sdR-b1-00155772.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=6461 MJD=56329 Sky Line Deviations for sdR-b1-00155772.fit
Before shift
After shift
1.00 pix
Fiber Number
0
100
200
300
400
500
4046
4358
5460
5577
6300
6363
6553
6923
6949
Sky Line Wavelength

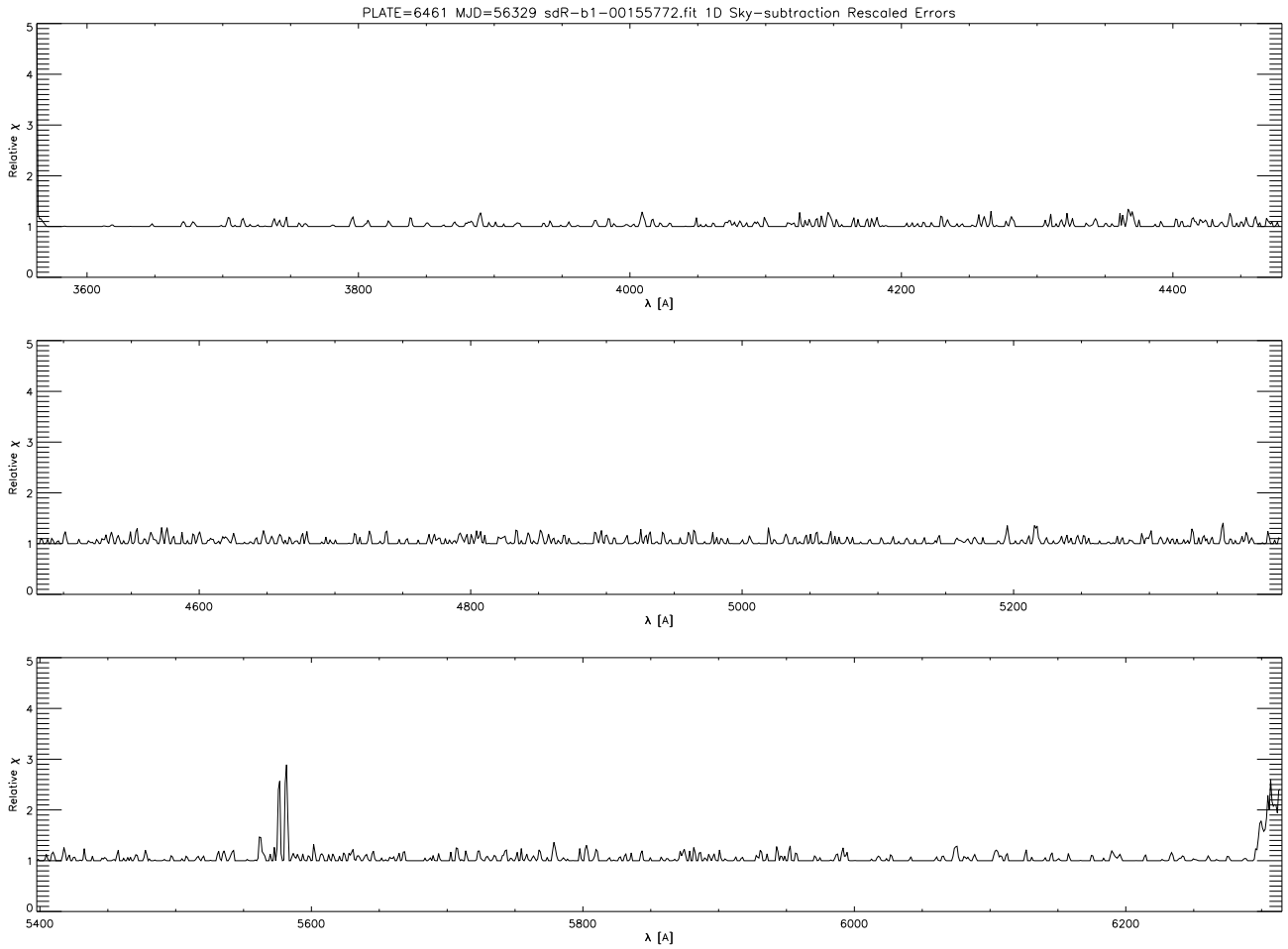

PLATE=6461 MJD=56329 Smooth superflat for sdR-b1-00155772.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

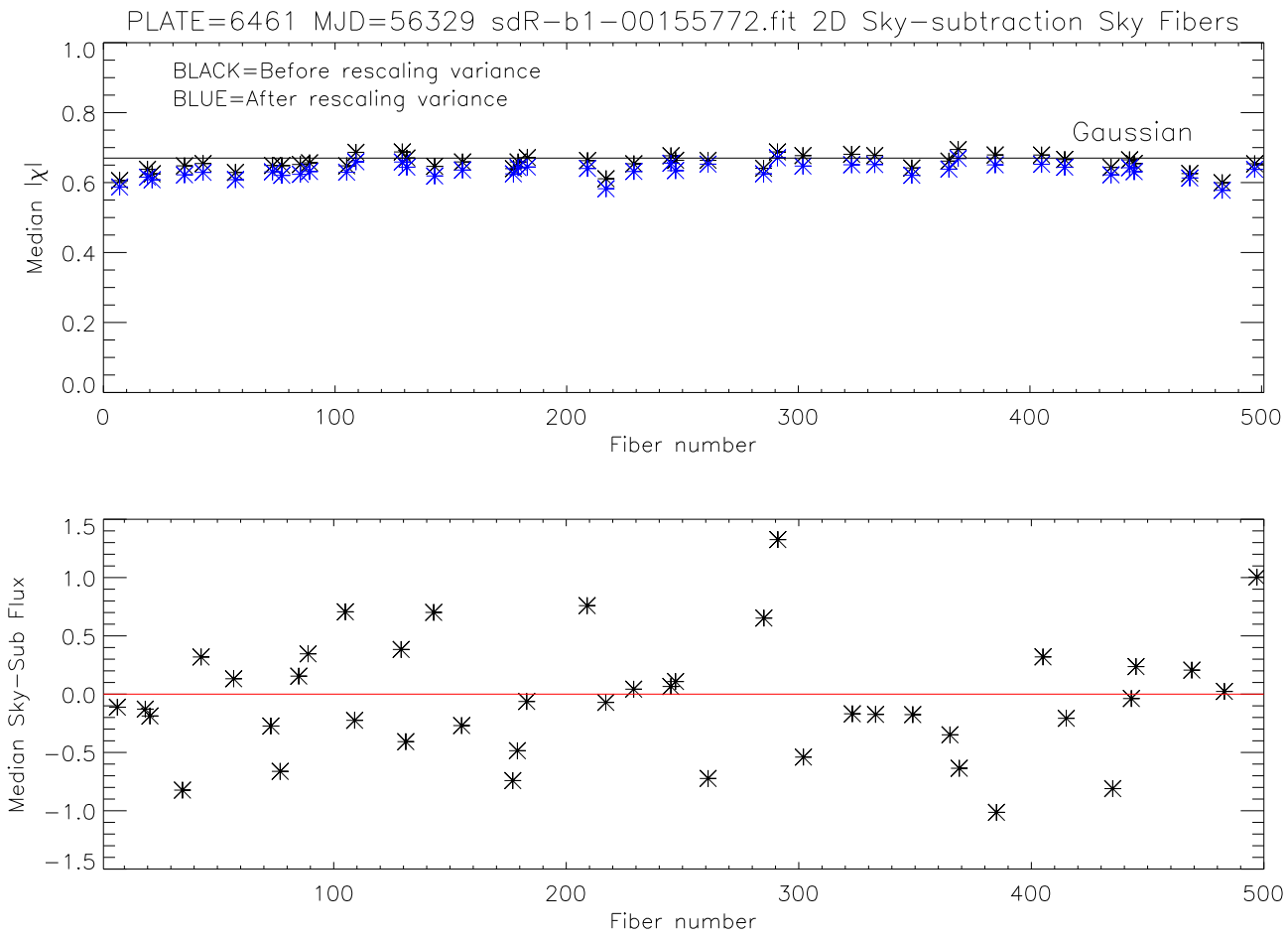

PLATE=6461 MJD=56329 sdR-b1-00155772.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

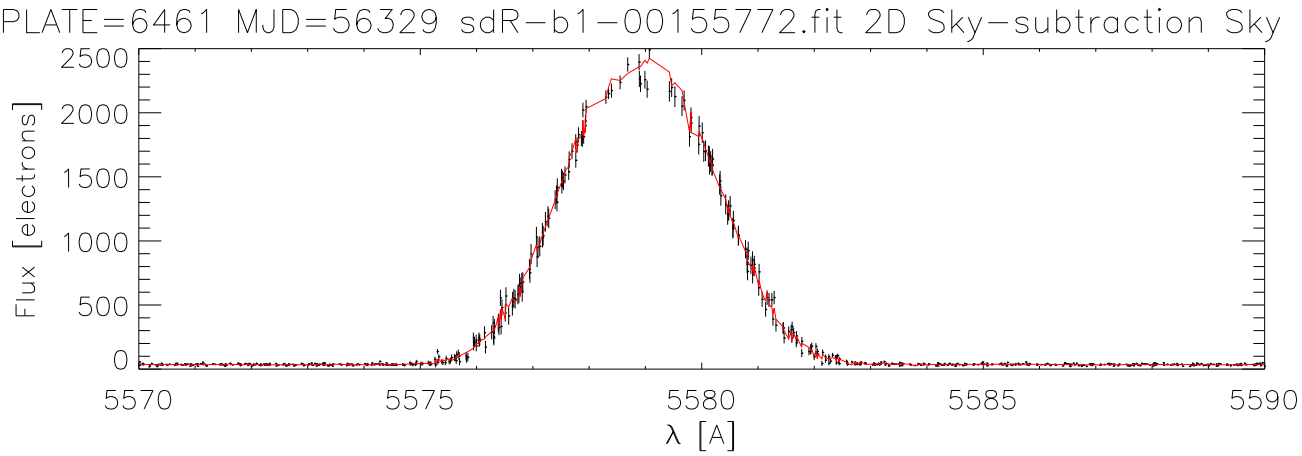

PLATE=6461 MJD=56329 sdR-b1-00155772.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

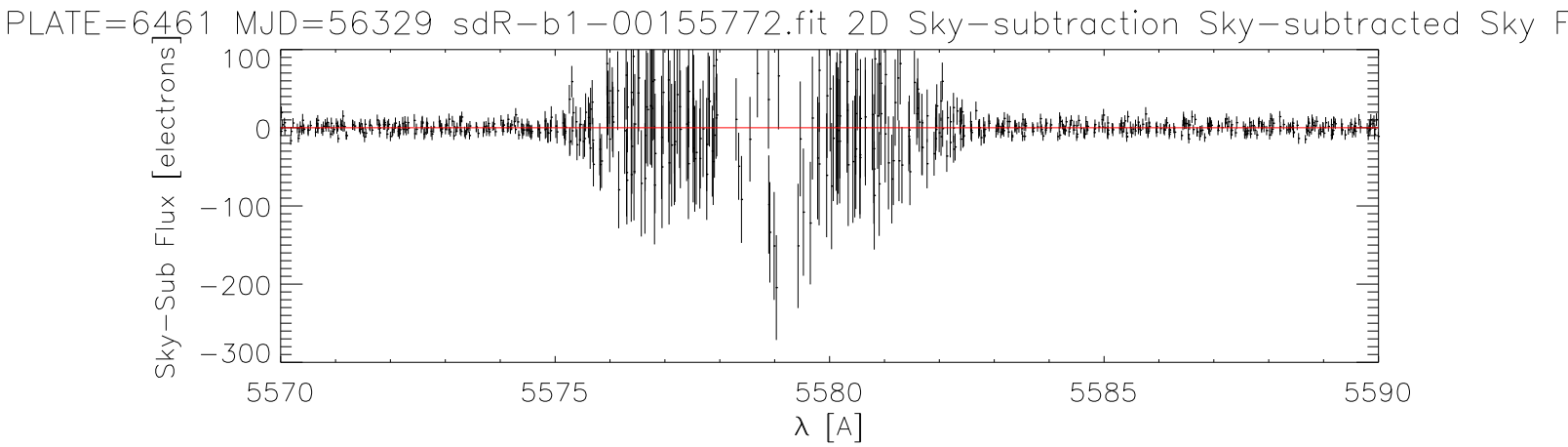

PLATE=6461 MJD=56329 sdR-b1-00155772.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 42

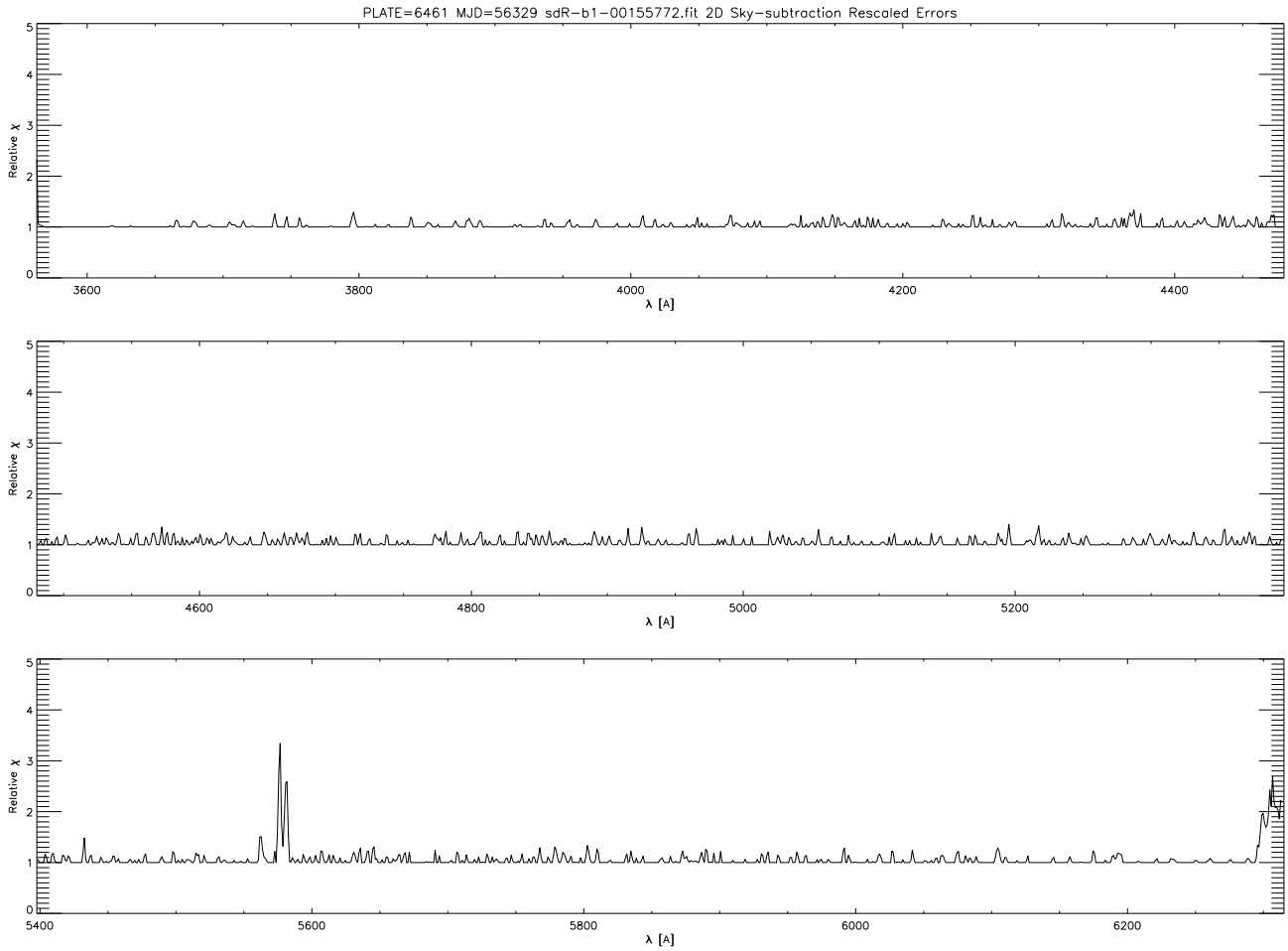


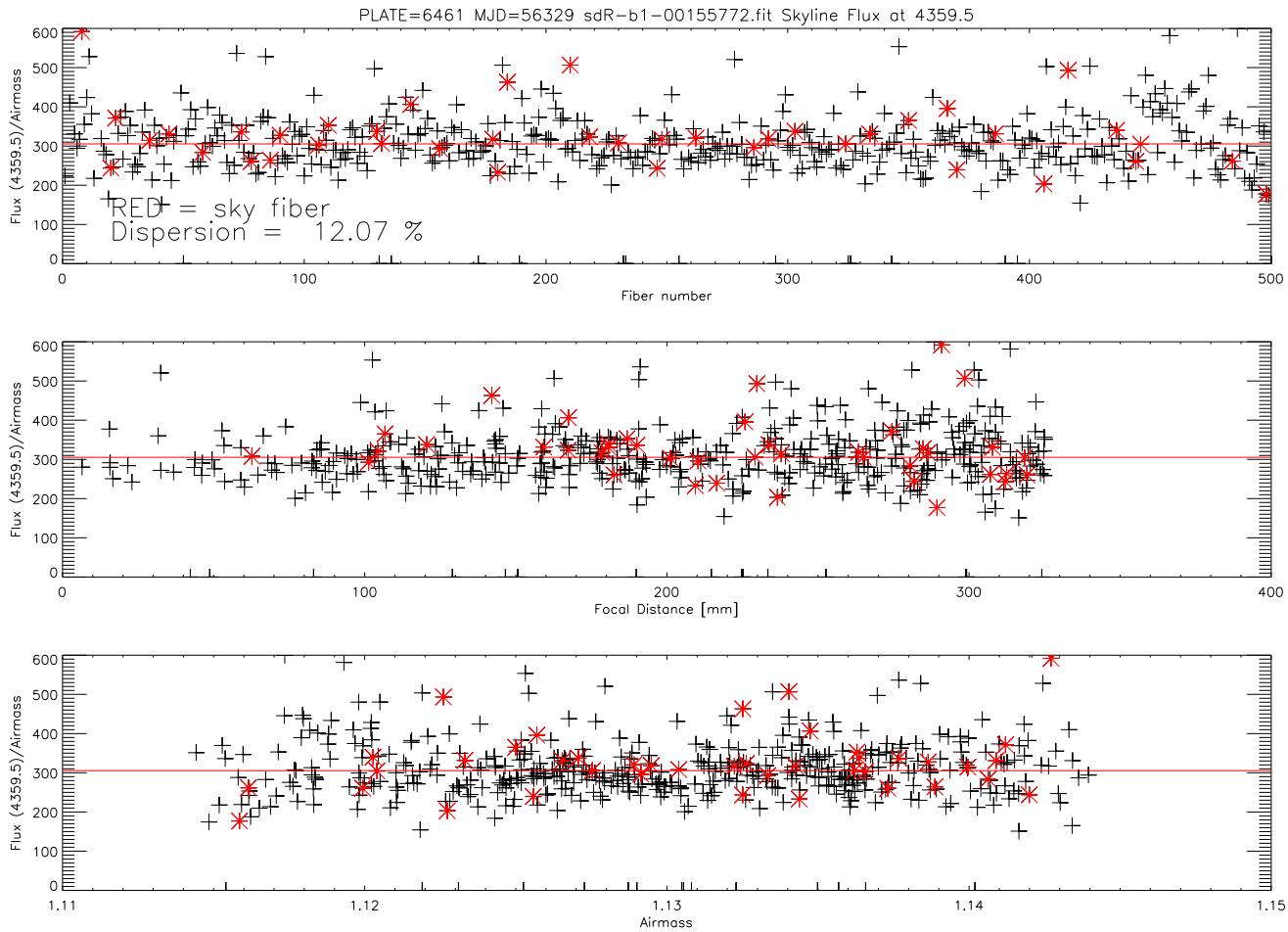

PLATE=6461 MJD=56329 sdR-b1-00155772.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

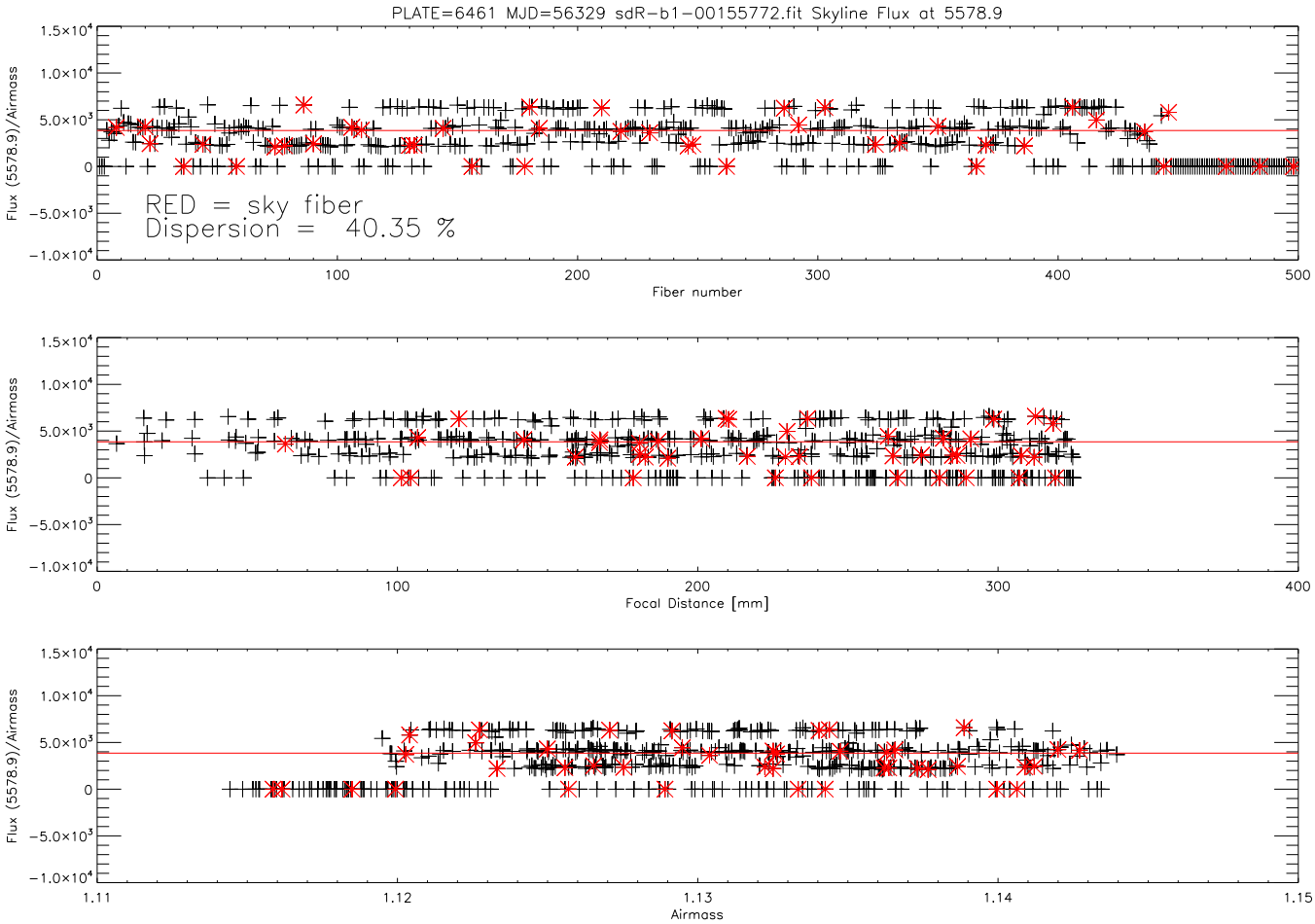

PLATE=6461 MJD=56329 sdR-b1-00155772.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

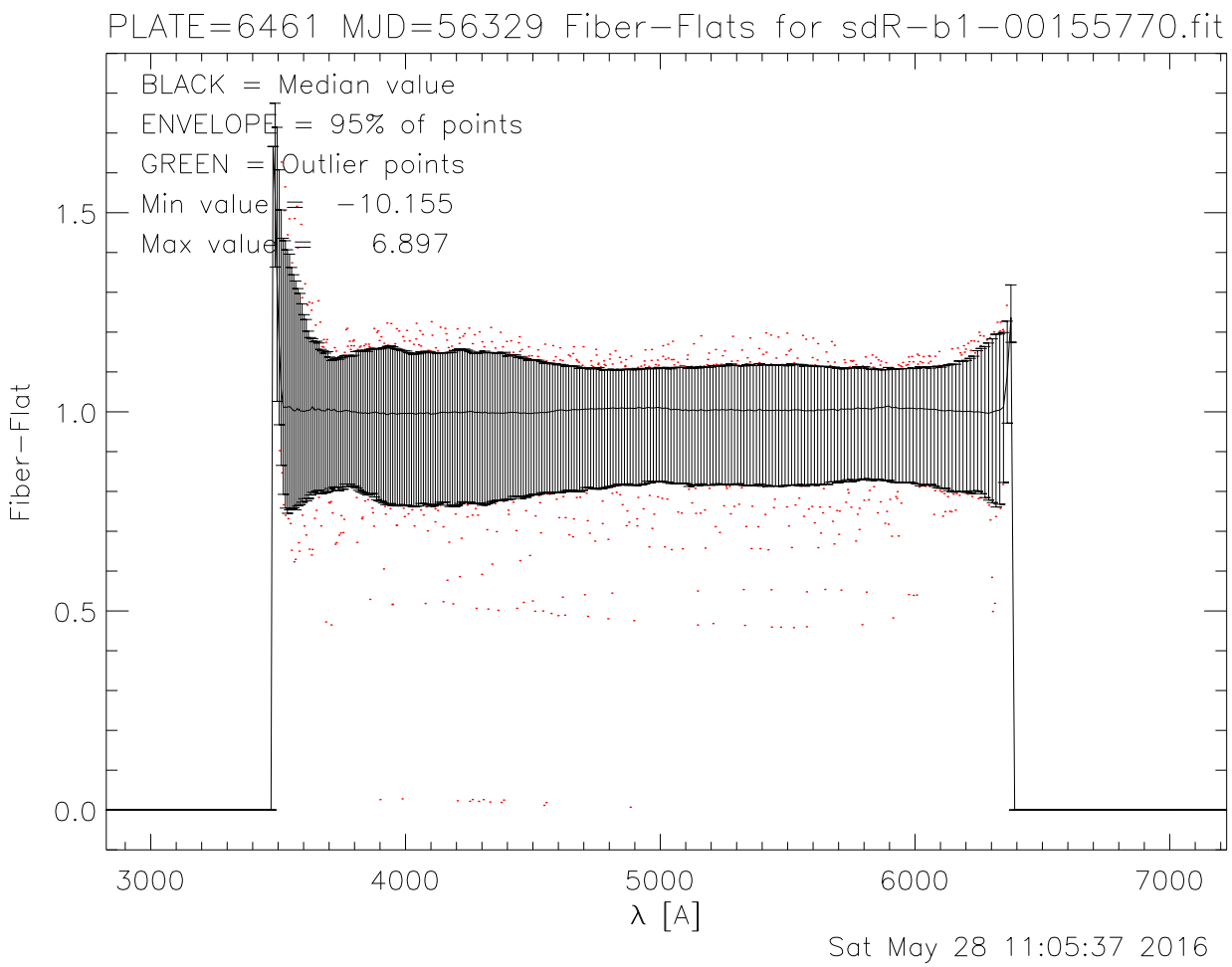

PLATE=6461 MJD=56329 sdR-b1-00155772.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

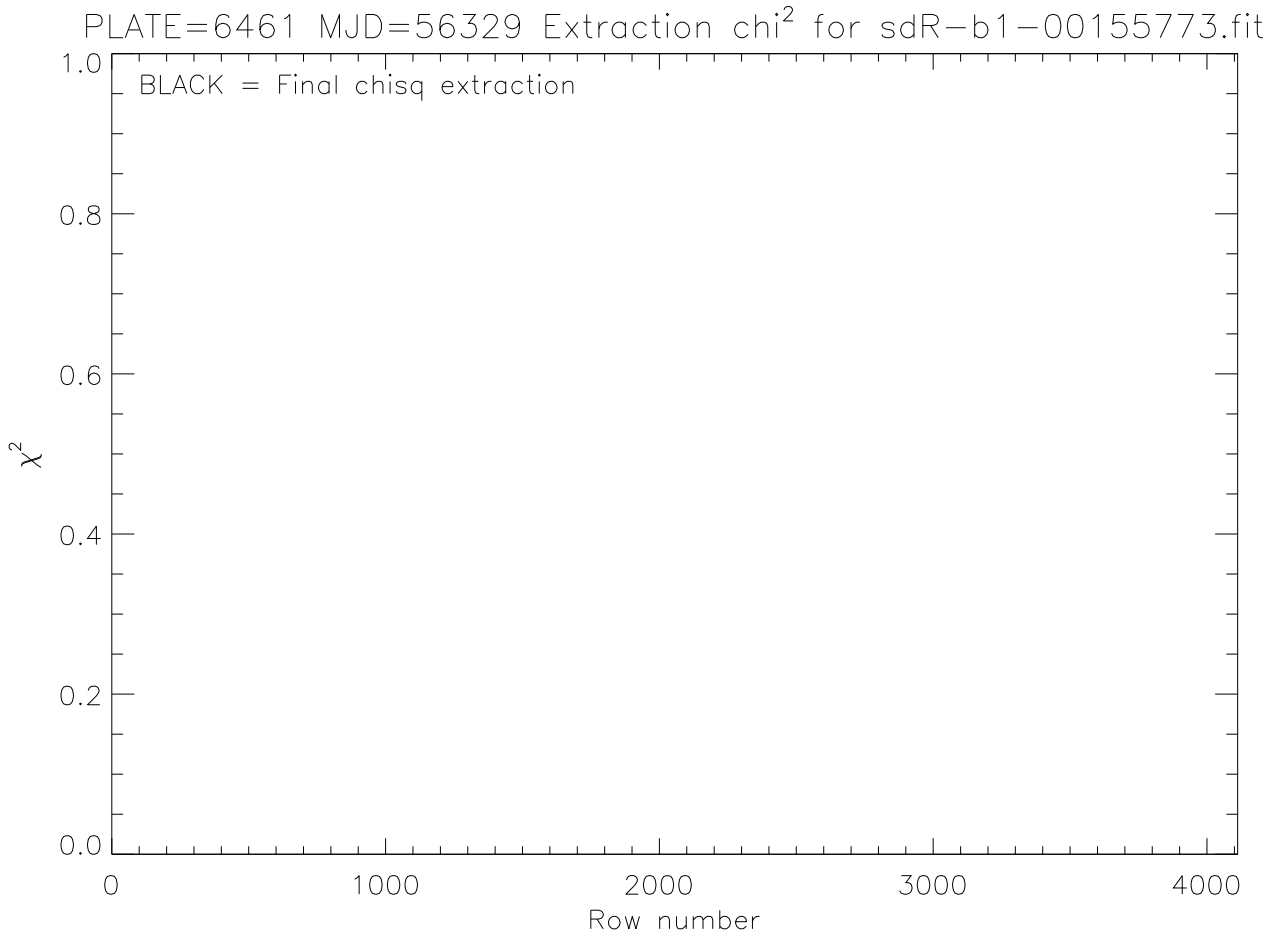
Number of sky fibers = 42

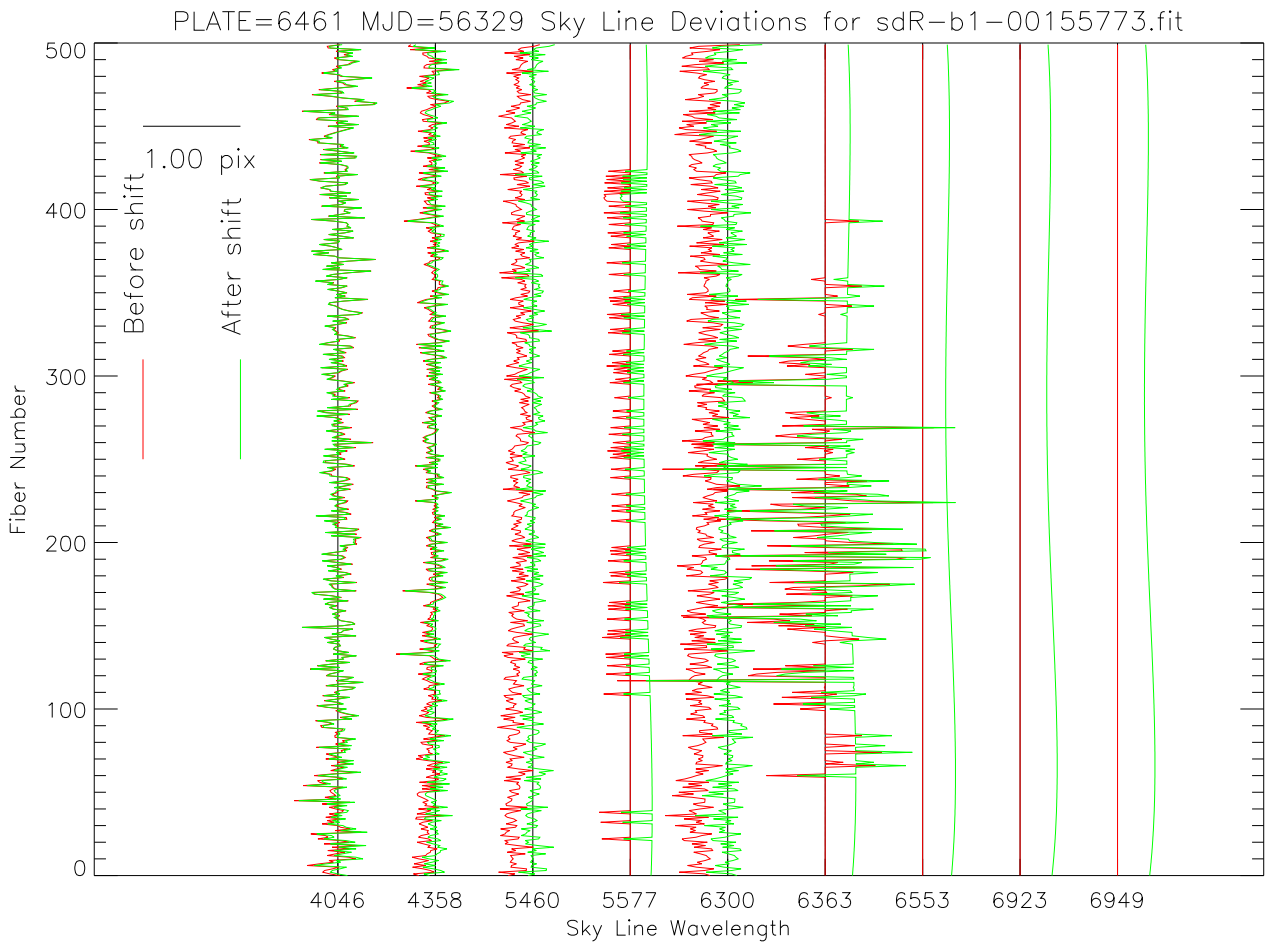


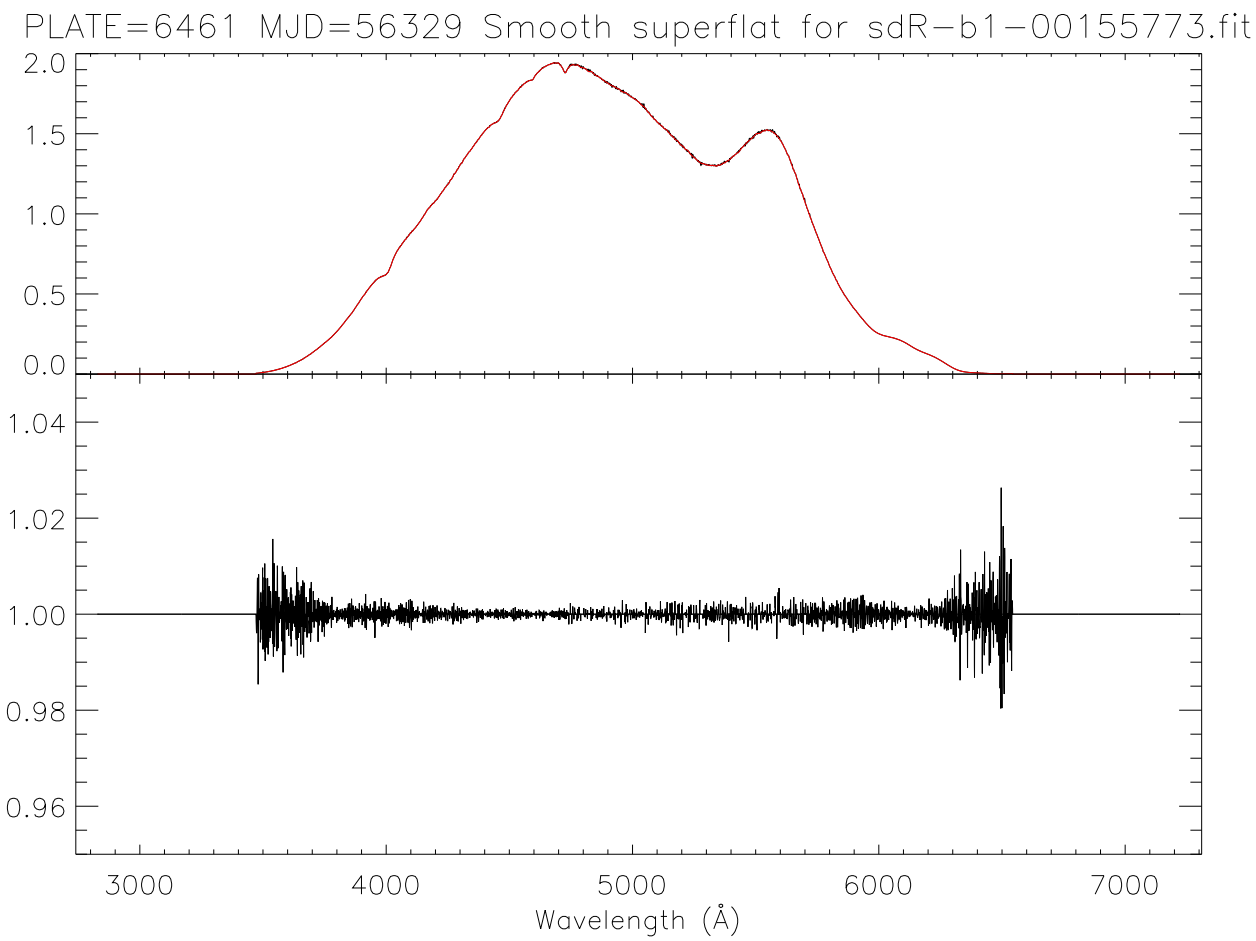

PLATE=6461 MJD=56329 sdR-b1-00155772.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 12.07 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

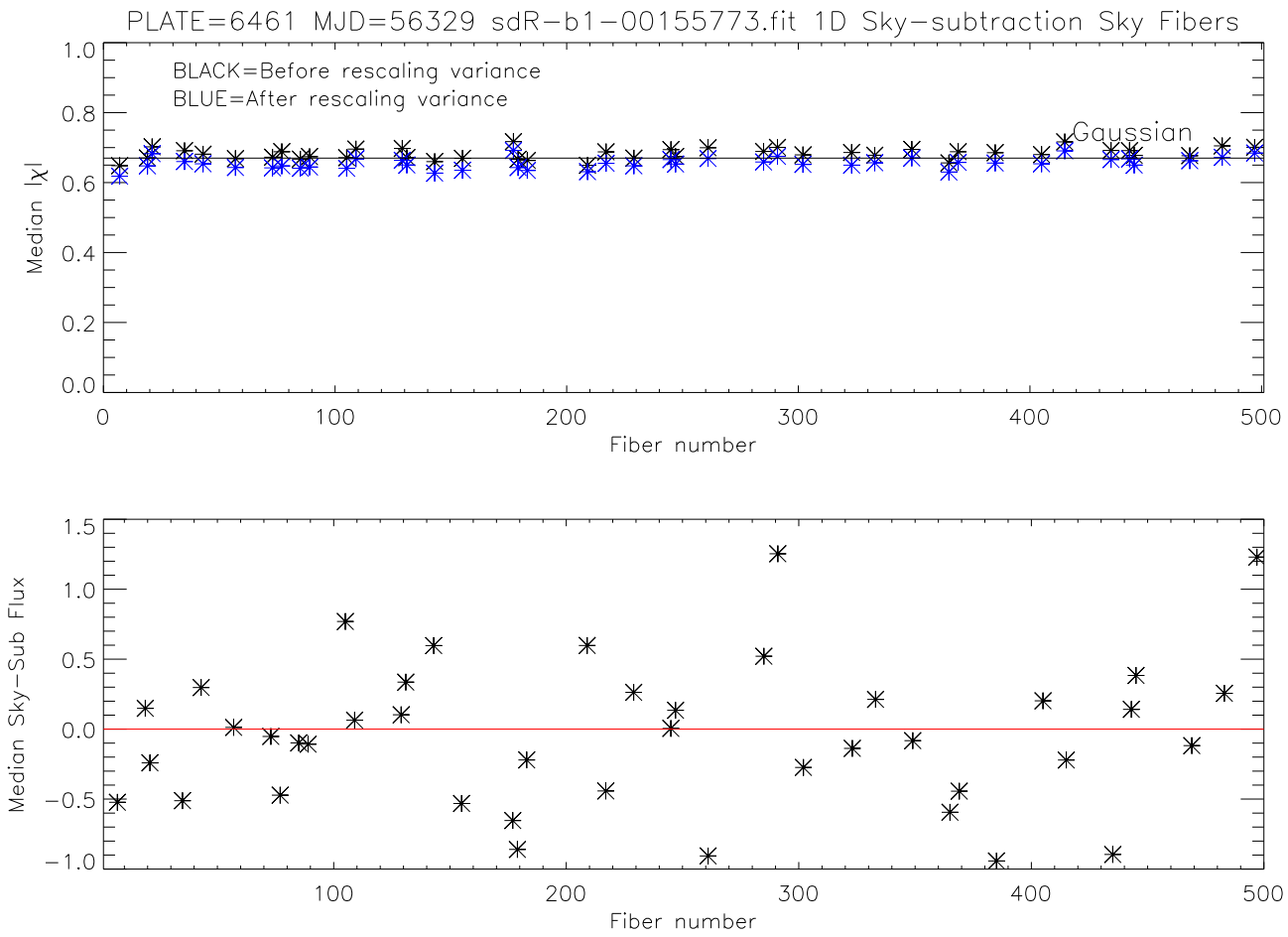

PLATE=6461 MJD=56329 sdR-b1-00155772.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 40.35 %
Fiber number
Focal Distance [mm]
Airmass

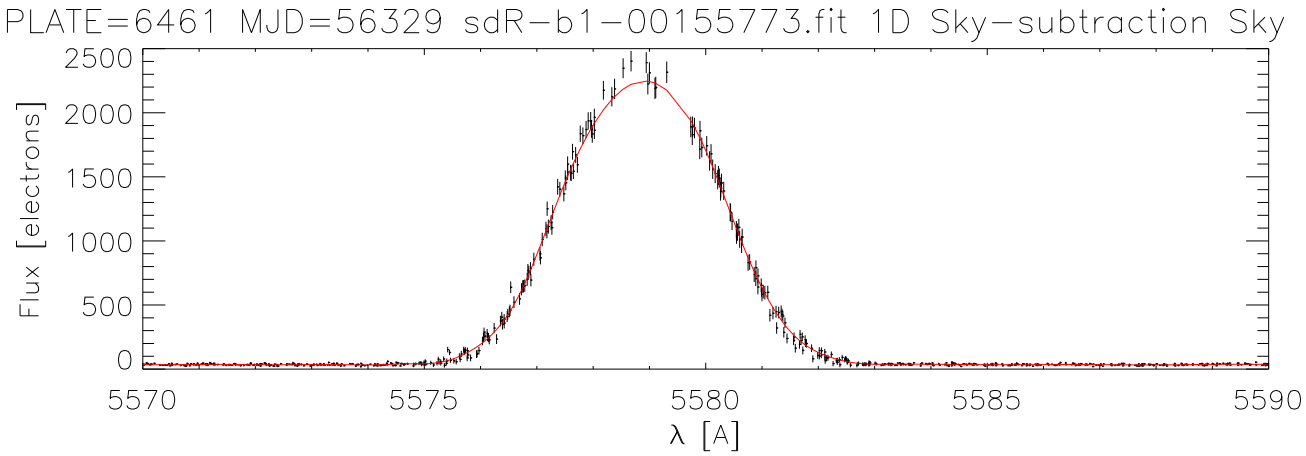

PLATE=6461 MJD=56329 Fiber−Flats for sdR−b1−00155770.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −10.155
Max value = 6.897
Fiber−Flat
0.0
0.5
1.0
1.5
3000
4000
5000
6000
7000
λ [A]
Sat May 28 11:05:37 2016

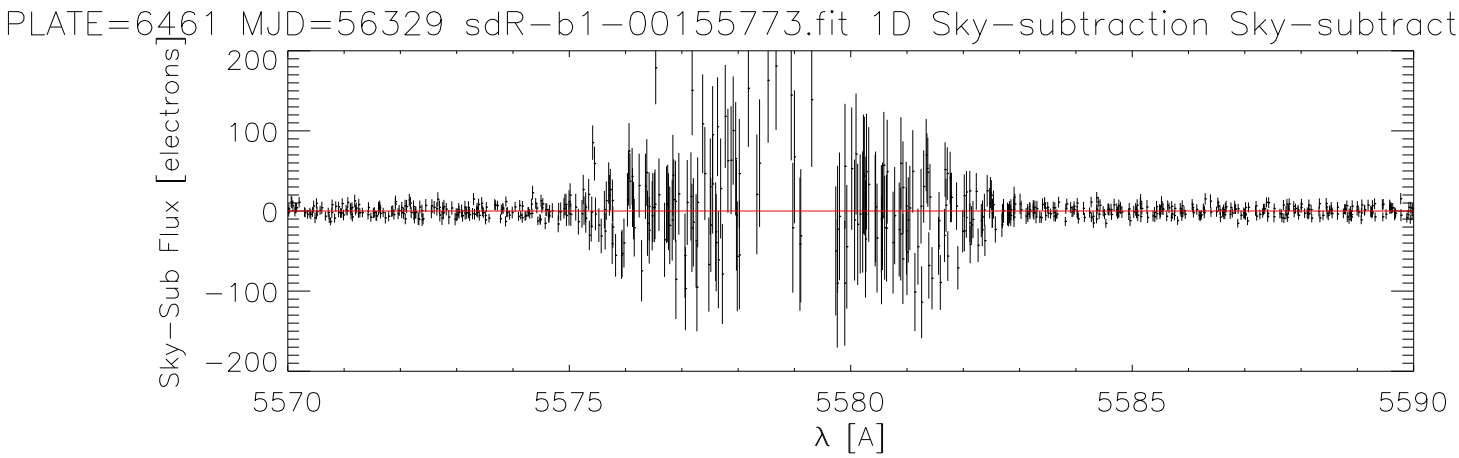

PLATE=6461 MJD=56329 Extraction chi^2 for sdR-b1-00155773.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=6461 MJD=56329 Sky Line Deviations for sdR-b1-00155773.fit
Before shift
After shift
1.00 pix
Fiber Number
0
100
200
300
400
500
4046
4358
5460
5577
6300
6363
6553
6923
6949
Sky Line Wavelength

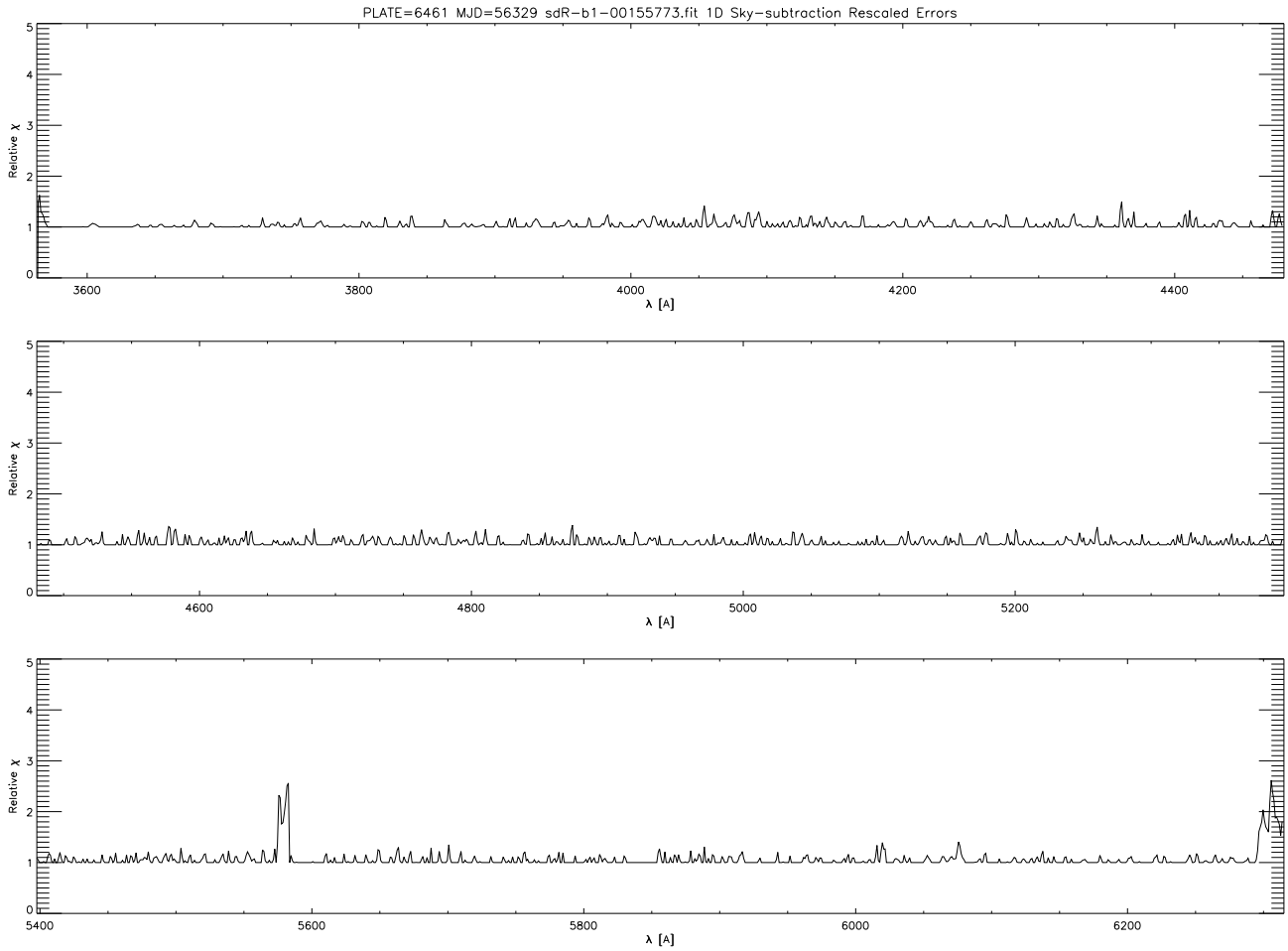

PLATE=6461 MJD=56329 Smooth superflat for sdR-b1-00155773.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

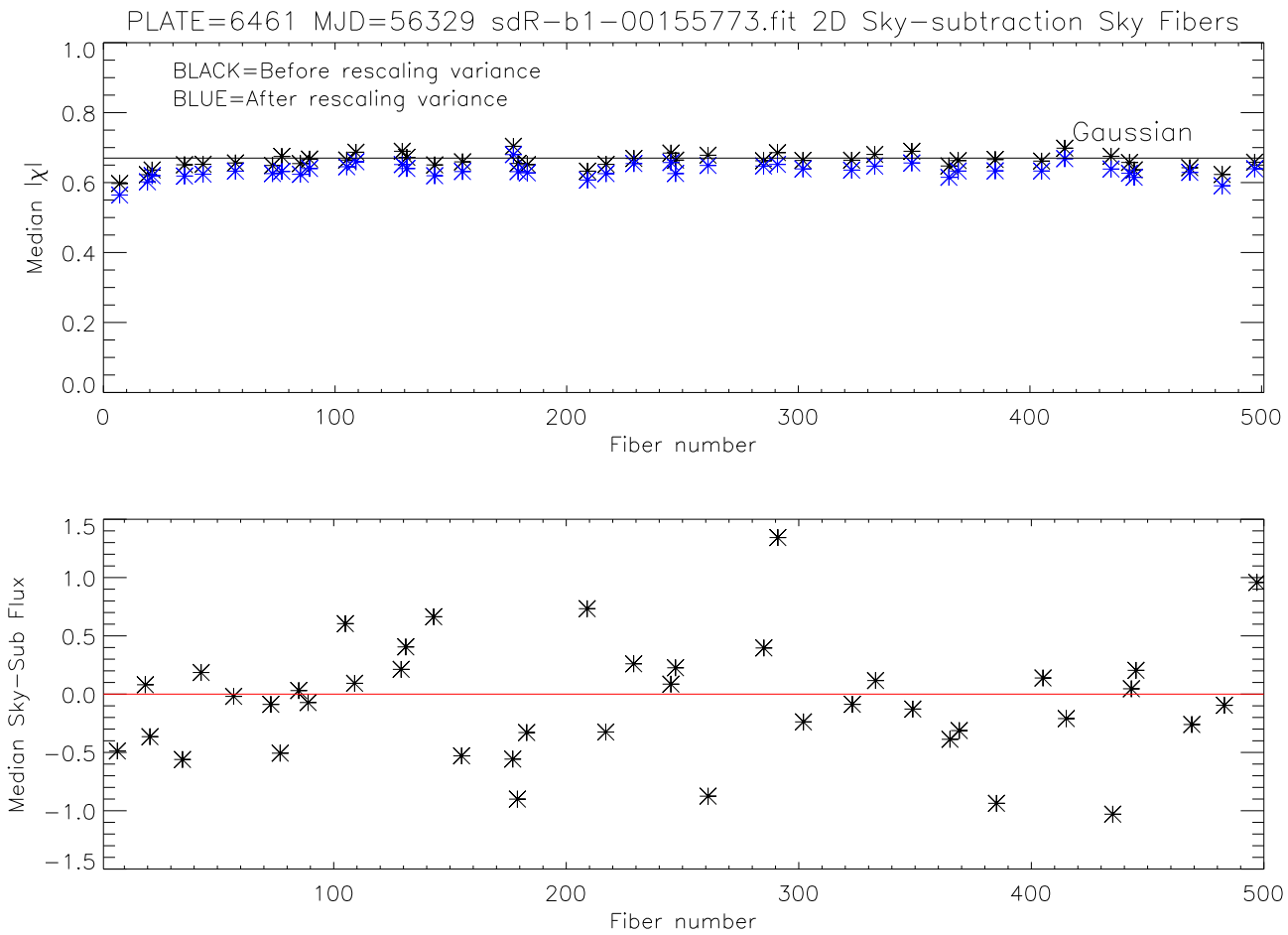

PLATE=6461 MJD=56329 sdR-b1-00155773.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

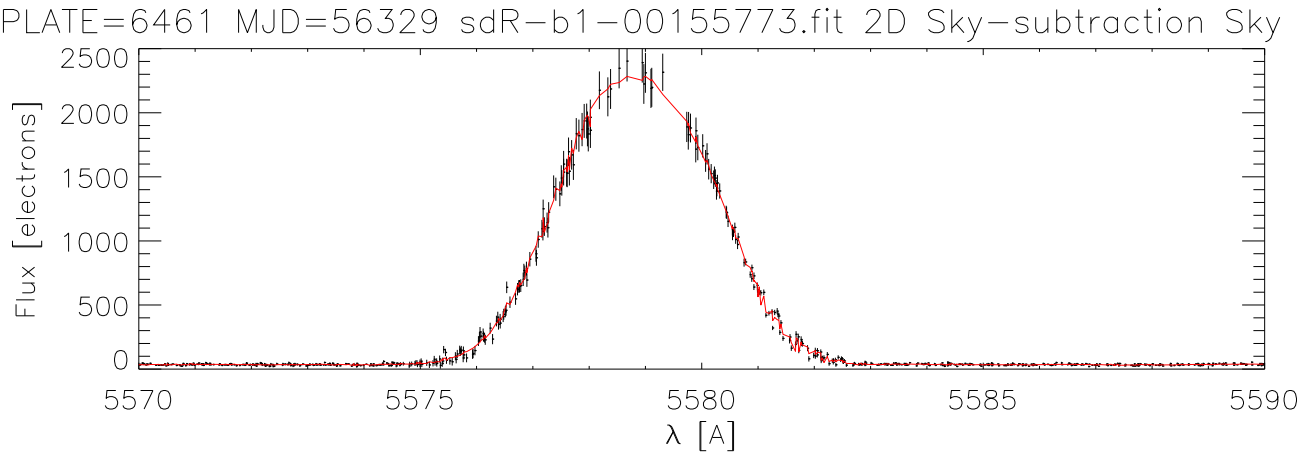

PLATE=6461 MJD=56329 sdR-b1-00155773.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

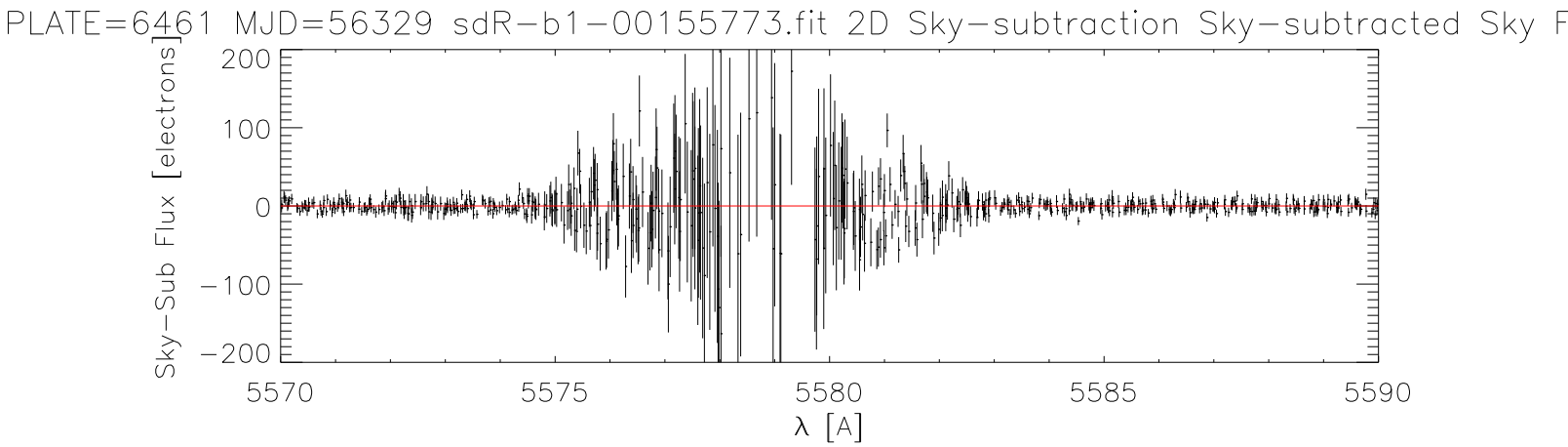

PLATE=6461 MJD=56329 sdR-b1-00155773.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 42

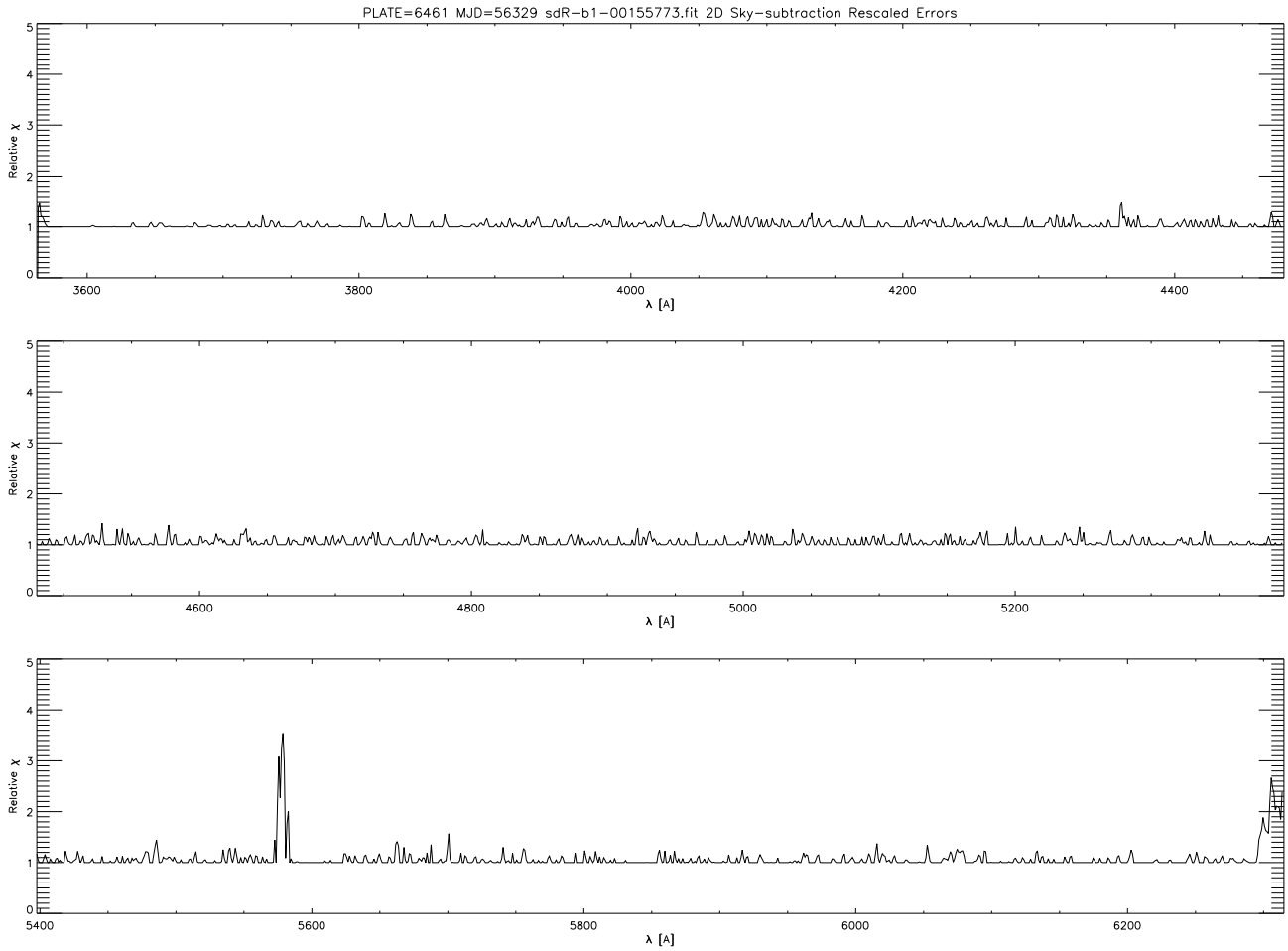


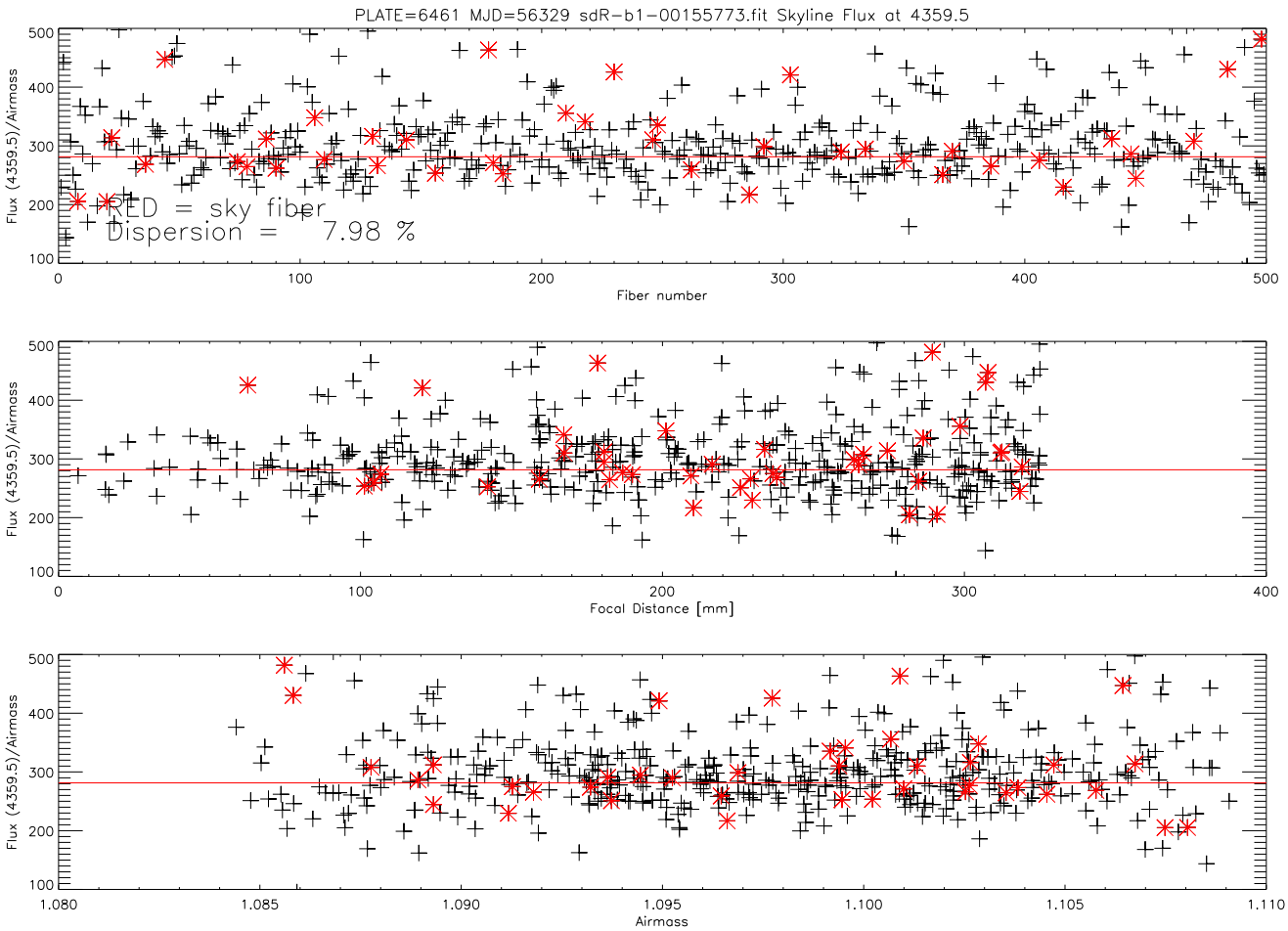

PLATE=6461 MJD=56329 sdR-b1-00155773.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

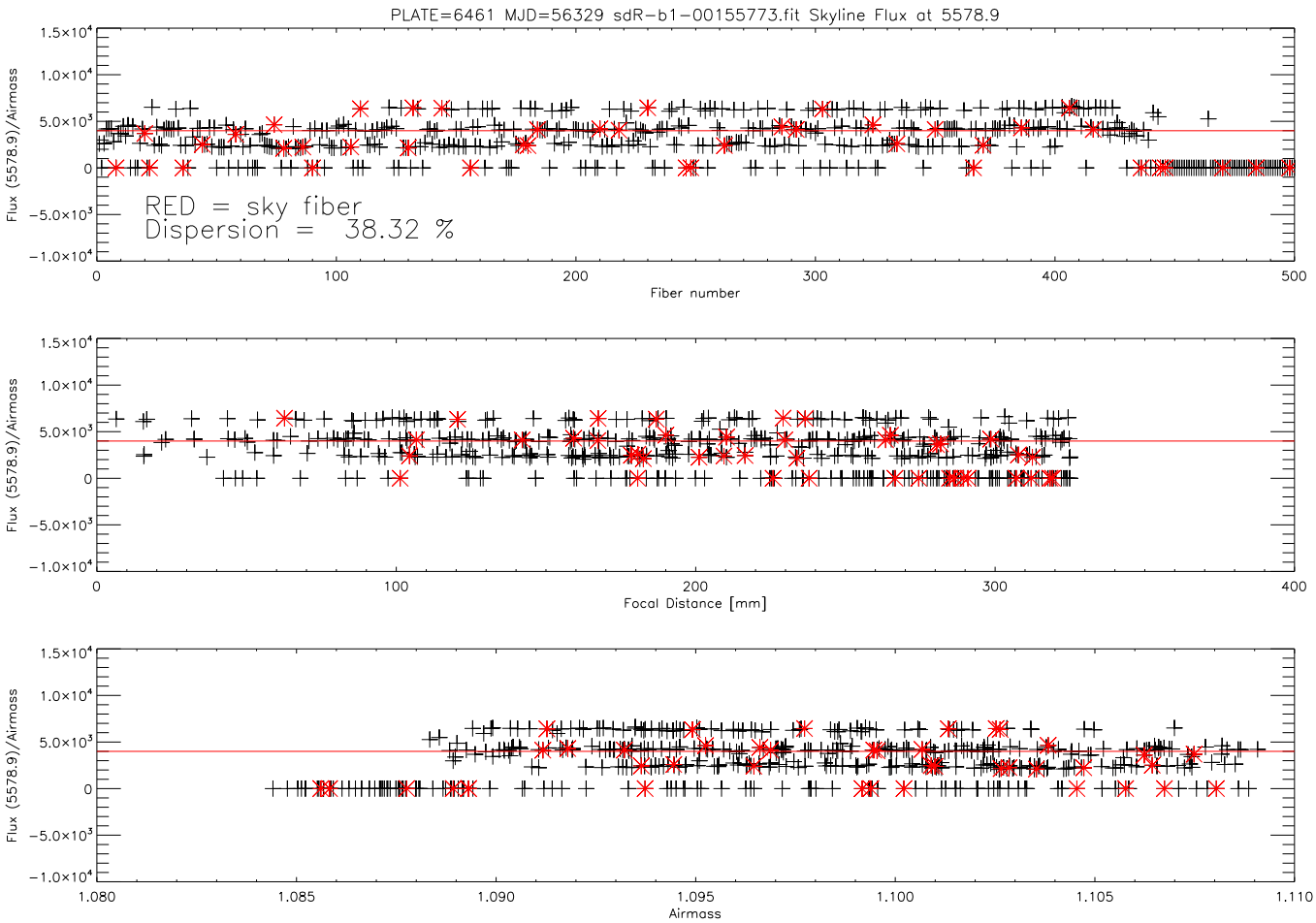

PLATE=6461 MJD=56329 sdR-b1-00155773.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]


PLATE=6461 MJD=56329 sdR-b1-00155773.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

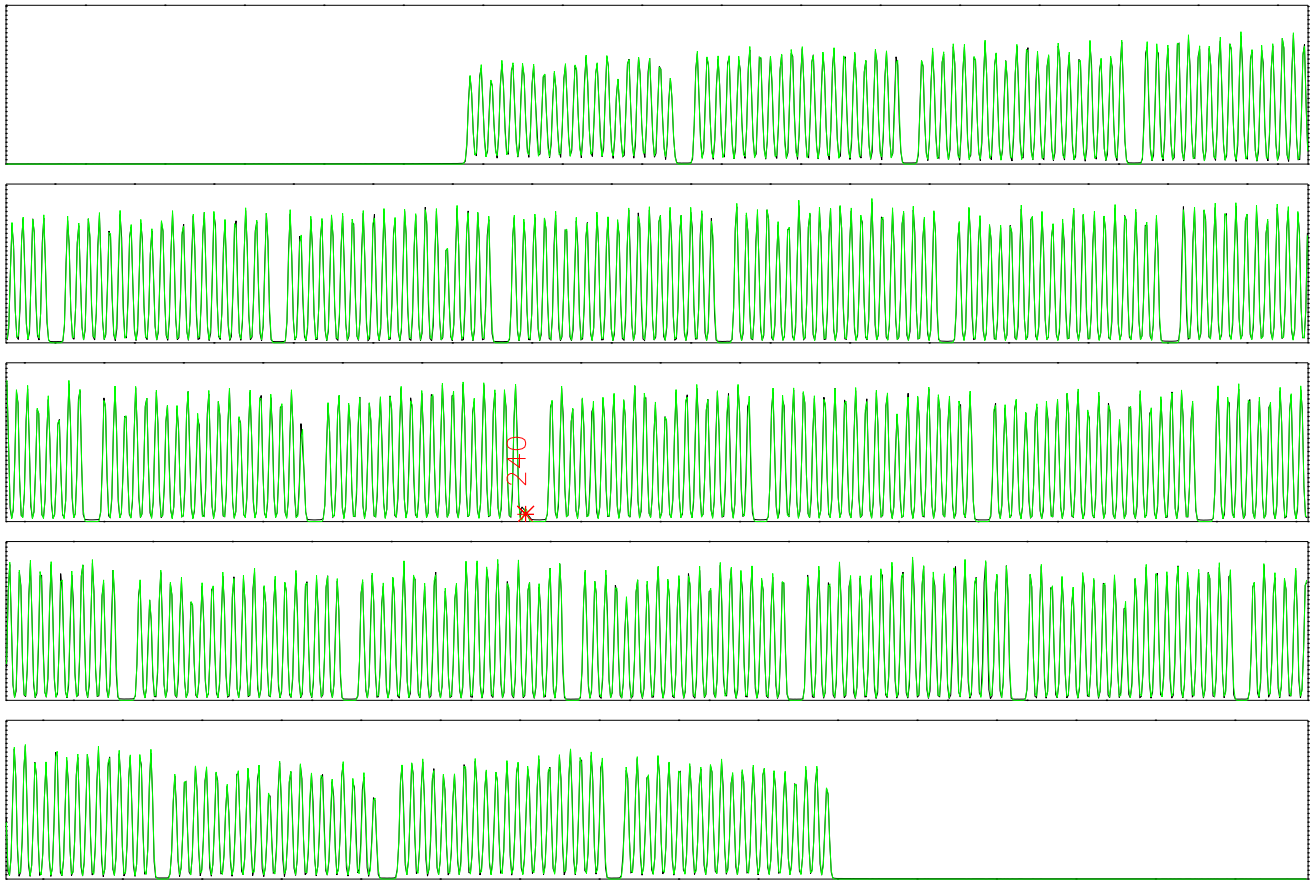
Number of sky fibers = 42

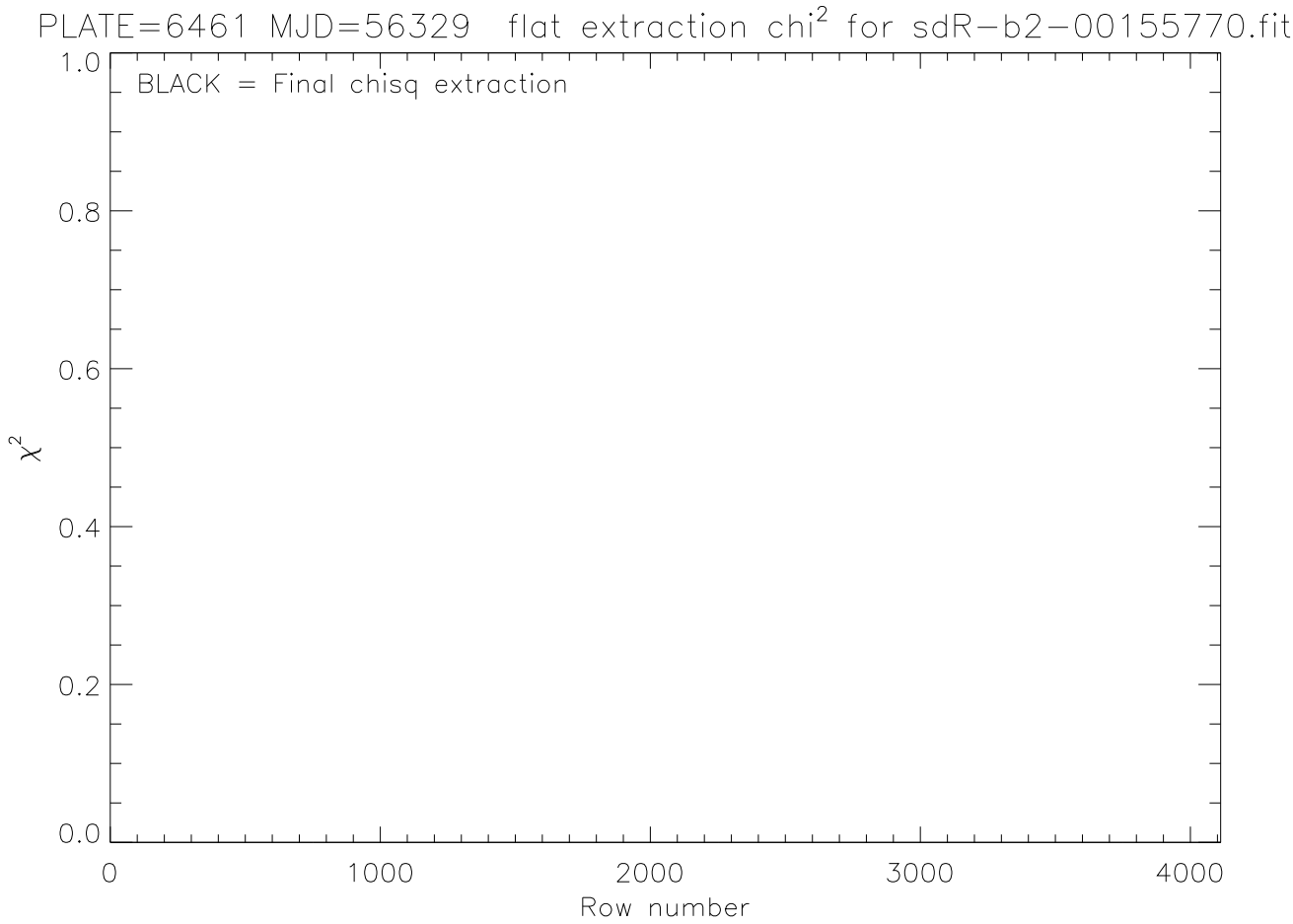


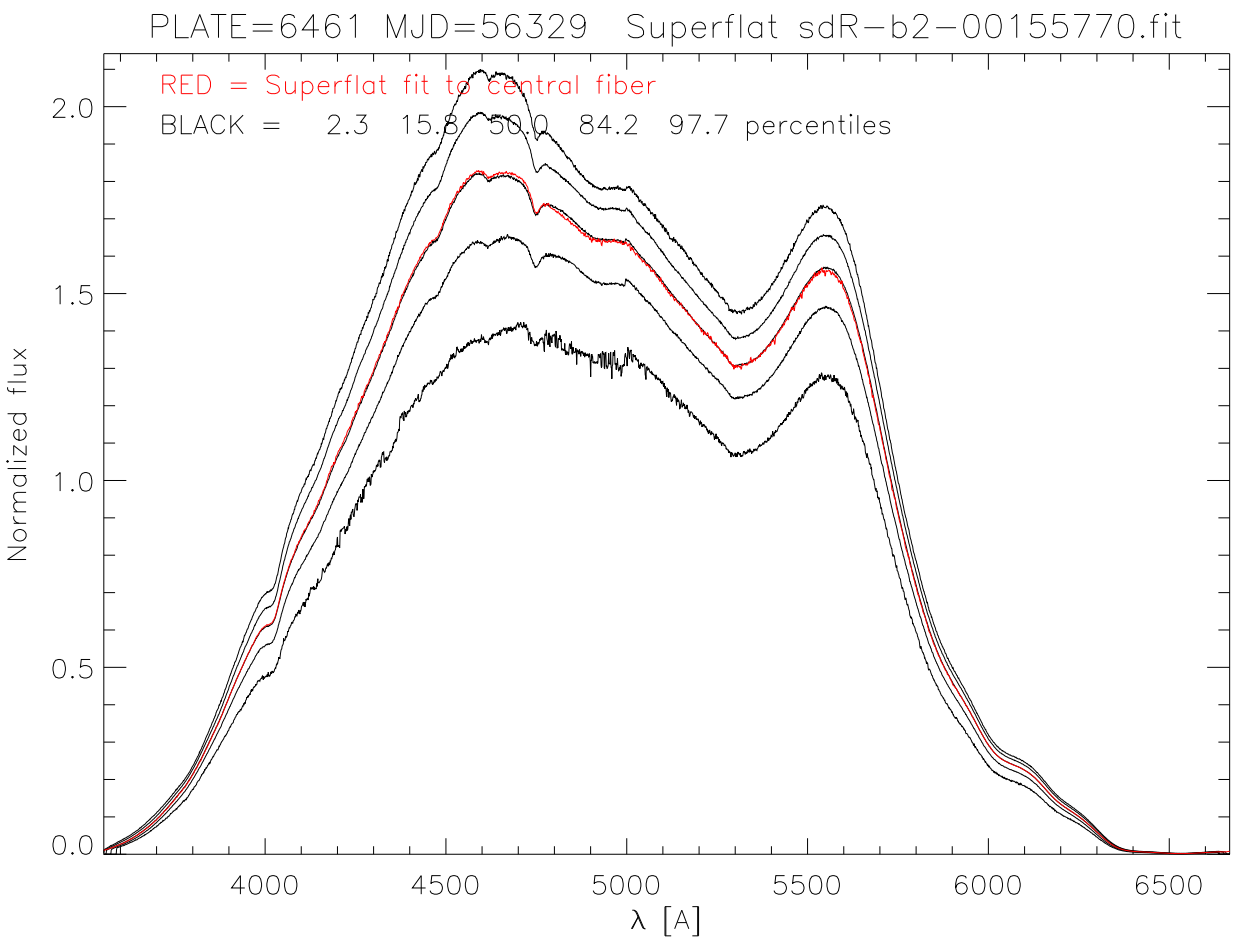

PLATE=6461 MJD=56329 sdR-b1-00155773.fit Skyline Flux at 4359.5
RED = sky fiber
Dispersion = 7.98 %
Flux (4359.5)/Airmass
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

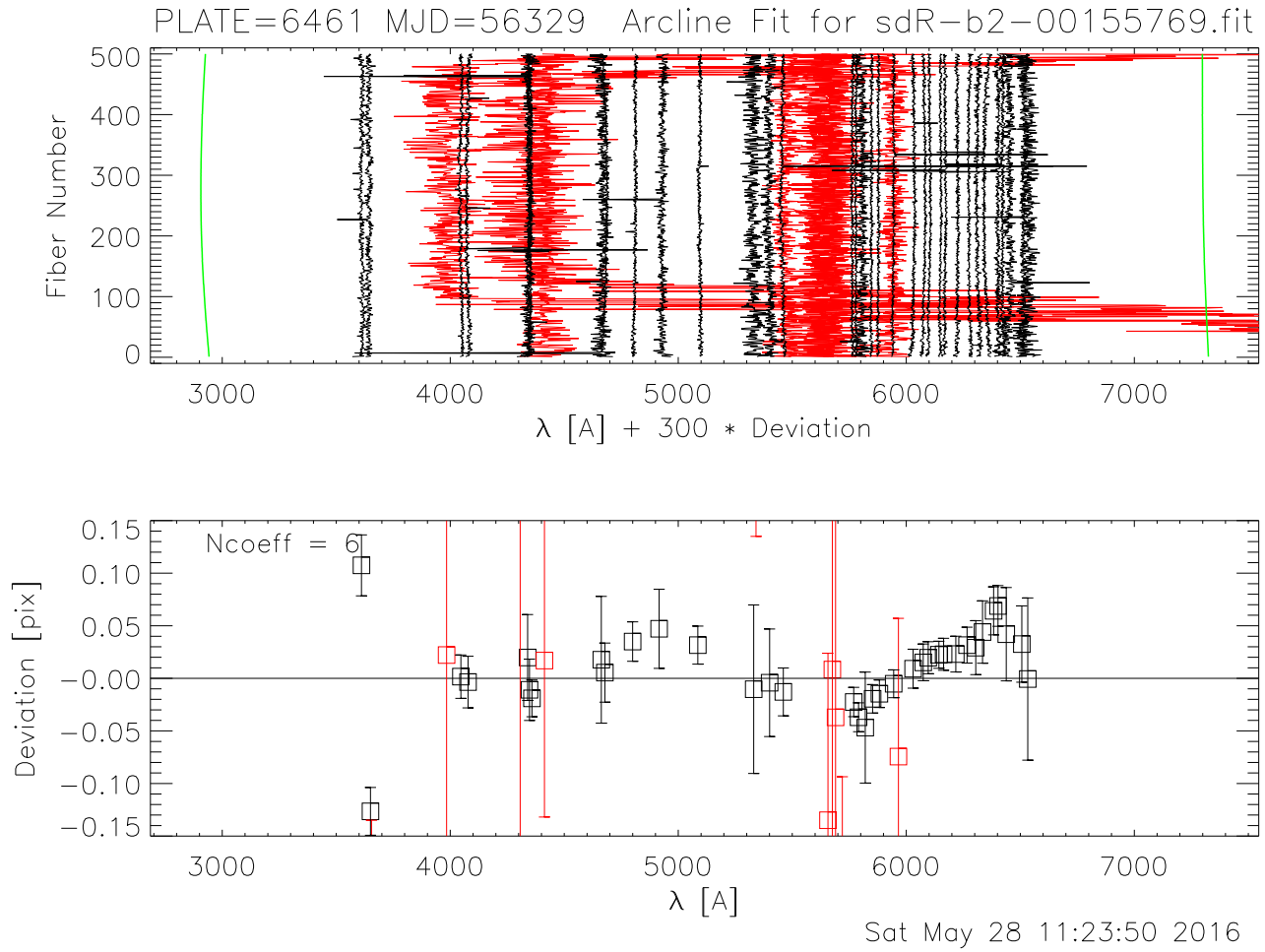

PLATE=6461 MJD=56329 sdR-b1-00155773.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 38.32 %
Fiber number
Focal Distance [mm]
Airmass

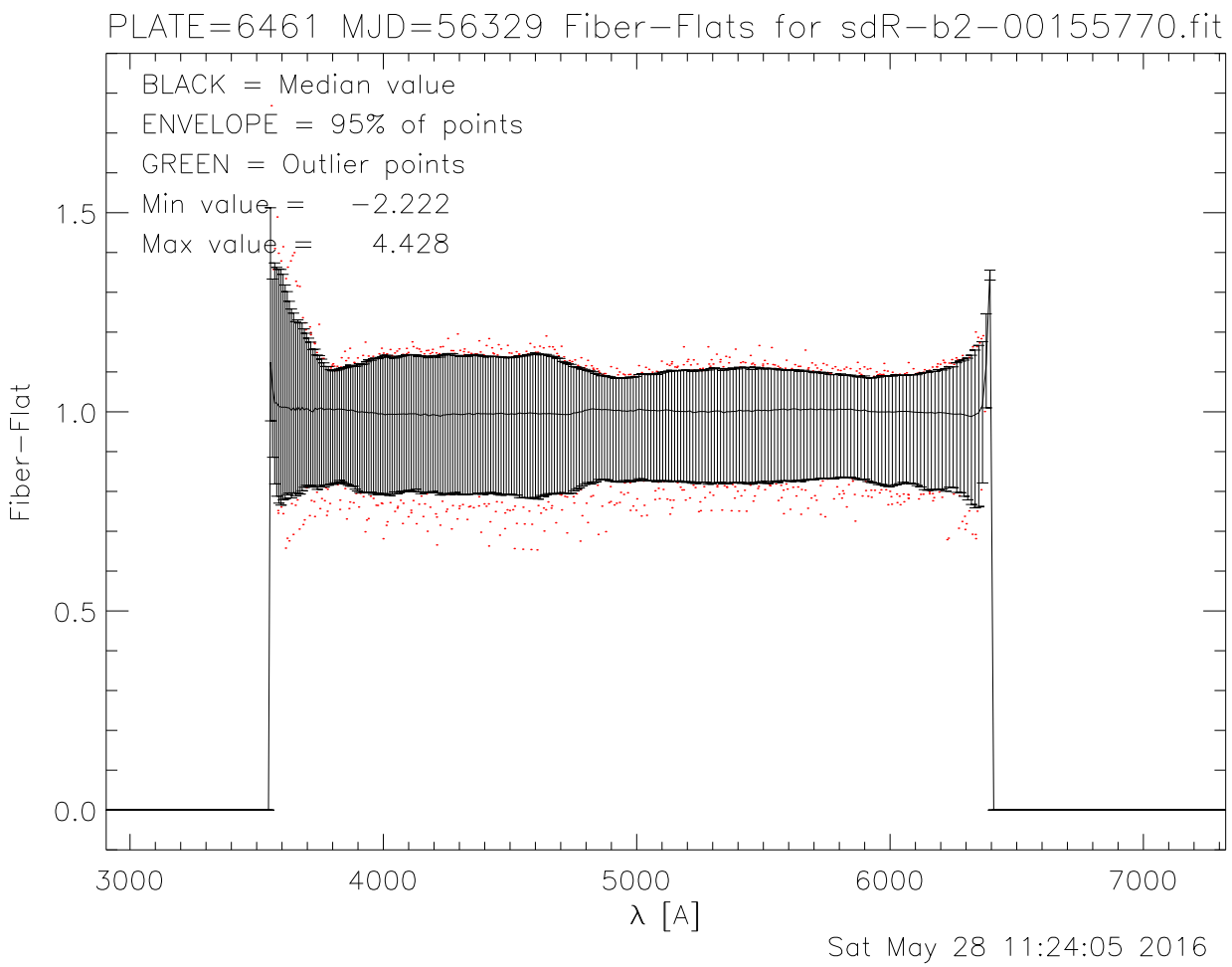
PLATE=6461 MJD=56329 Traces sdR-b2-00155770.fit

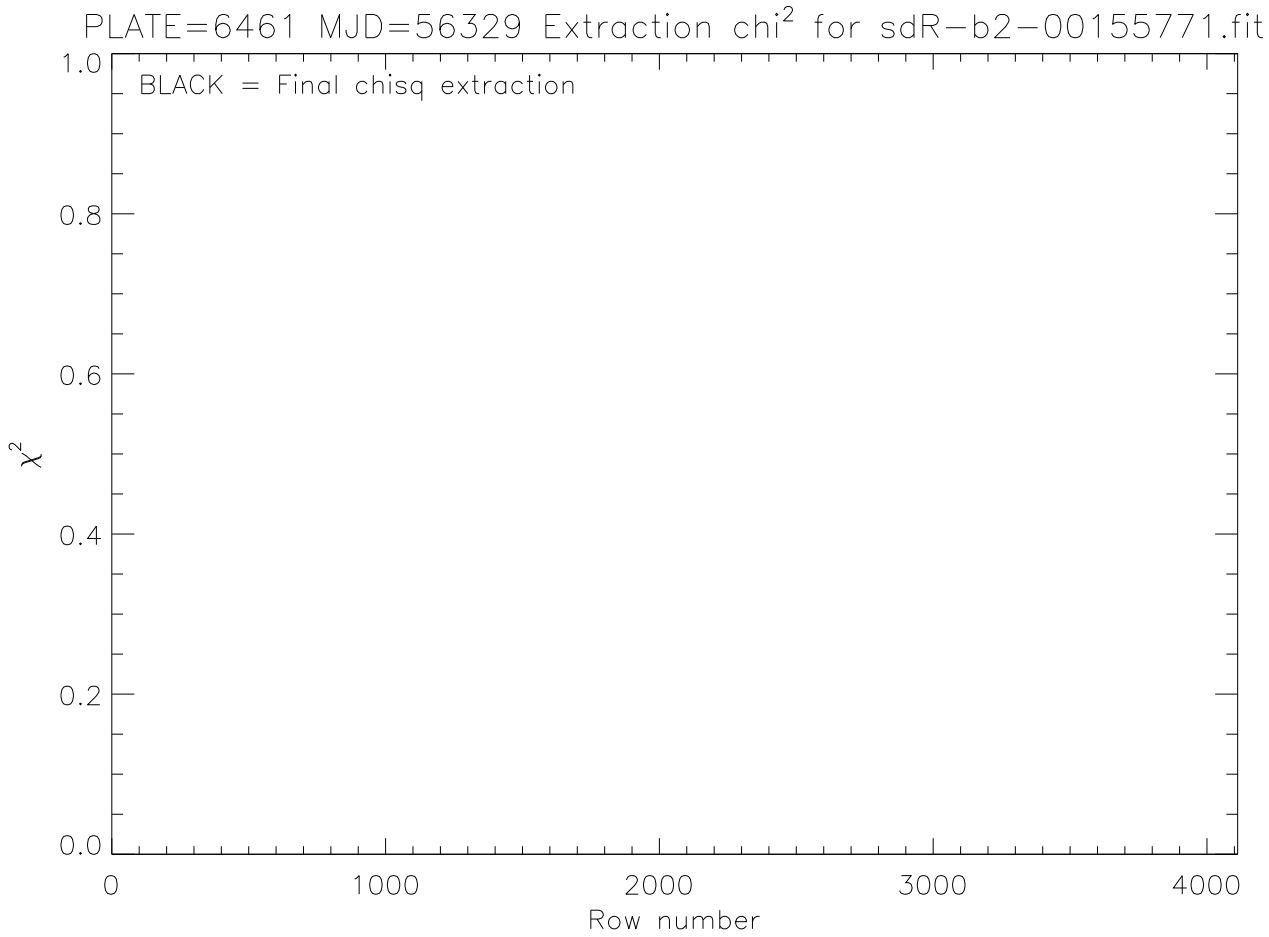


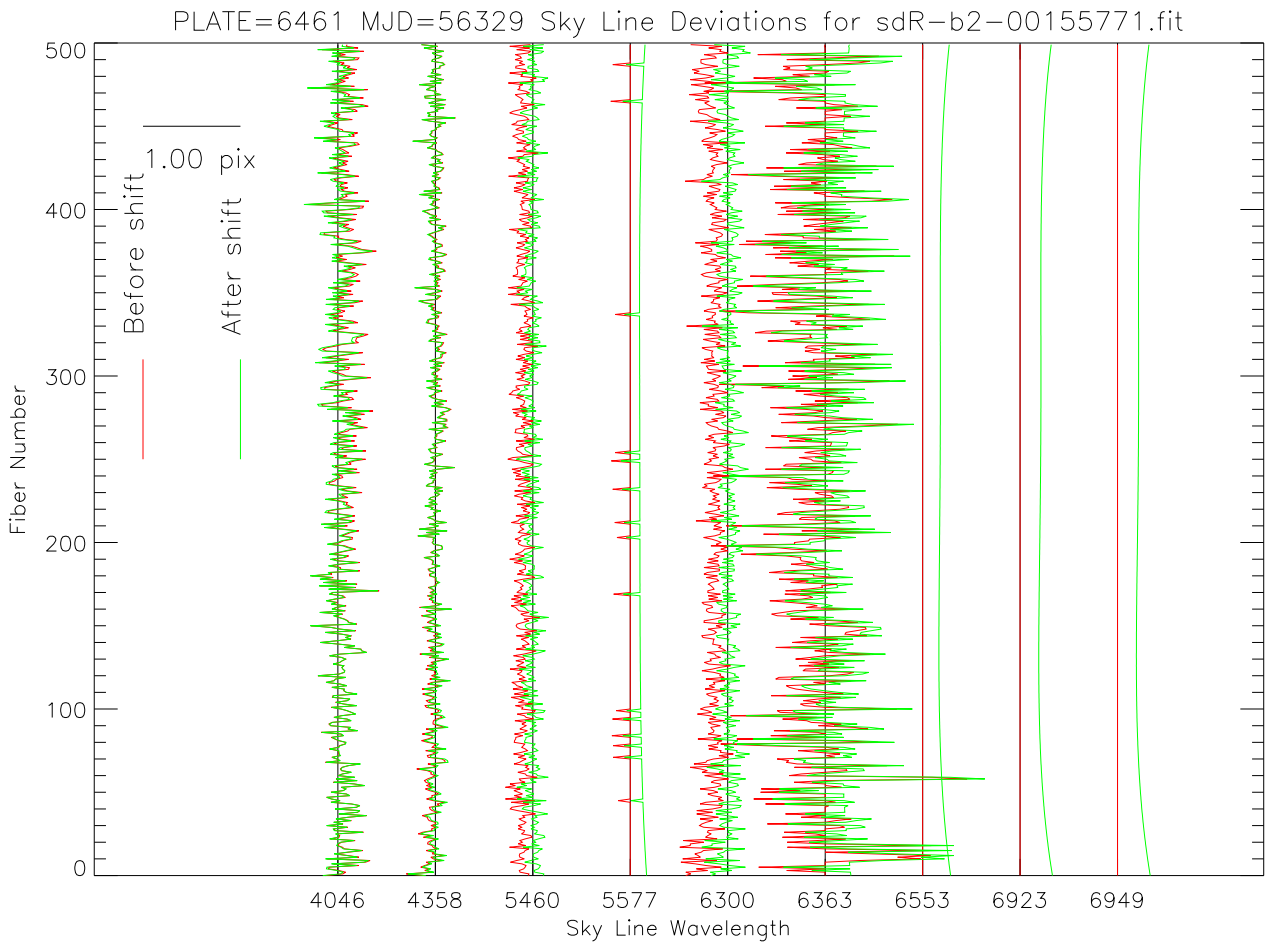

PLATE=6461 MJD=56329 flat extraction chi^2 for sdR−b2−00155770.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number

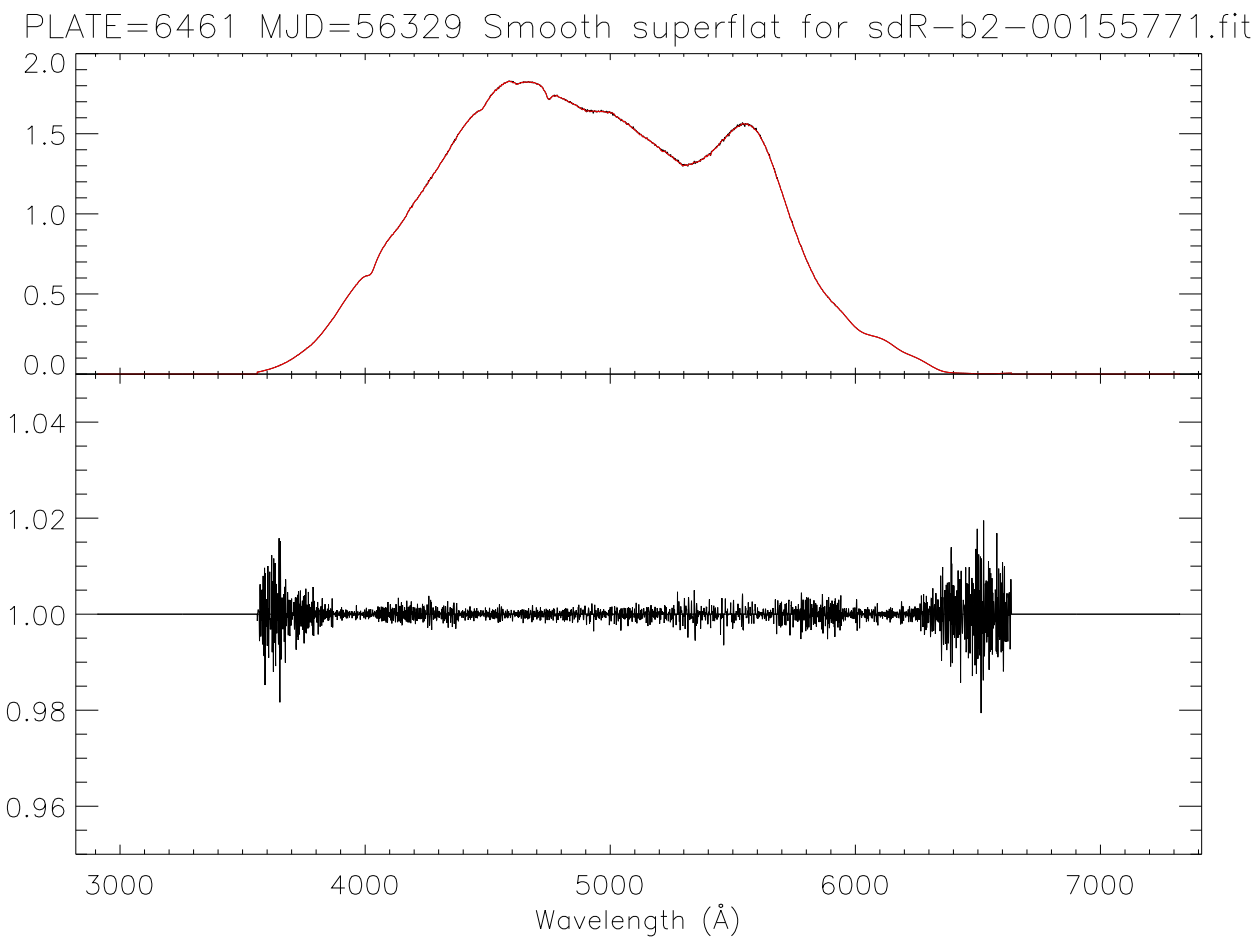

PLATE=6461 MJD=56329 Superflat sdR-b2-00155770.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
4000
4500
5000
5500
6000
6500

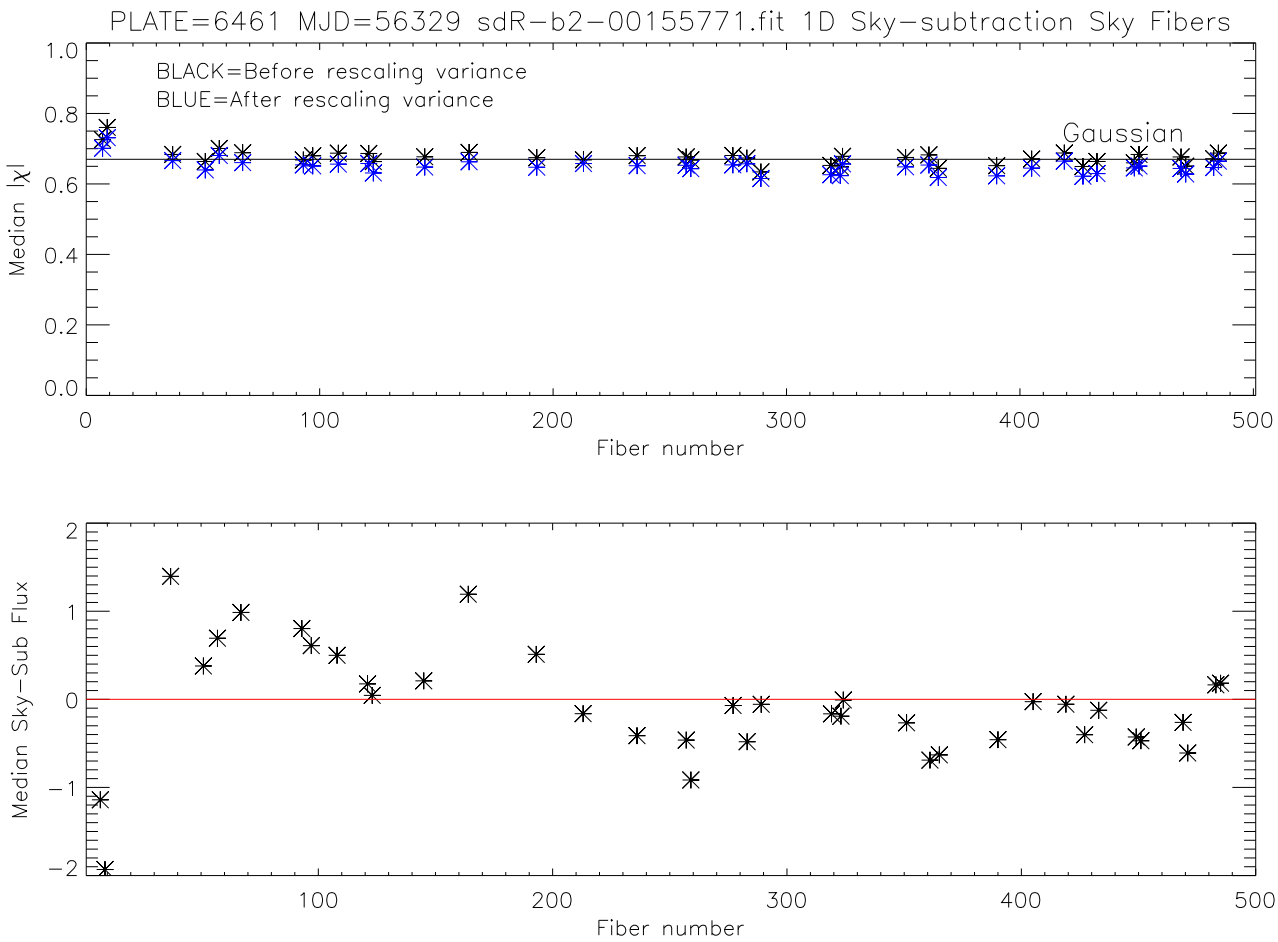

PLATE=6461 MJD=56329 Arcline Fit for sdR-b2-00155769.fit
Fiber Number
500
400
300
200
100
0
3000
4000
5000
6000
7000
λ [A] + 300 * Deviation
Ncoeff = 6
Deviation [pix]
0.15
0.10
0.05
−0.00
−0.05
−0.10
−0.15
3000
4000
5000
6000
7000
λ [A]
Sat May 28 11:23:50 2016

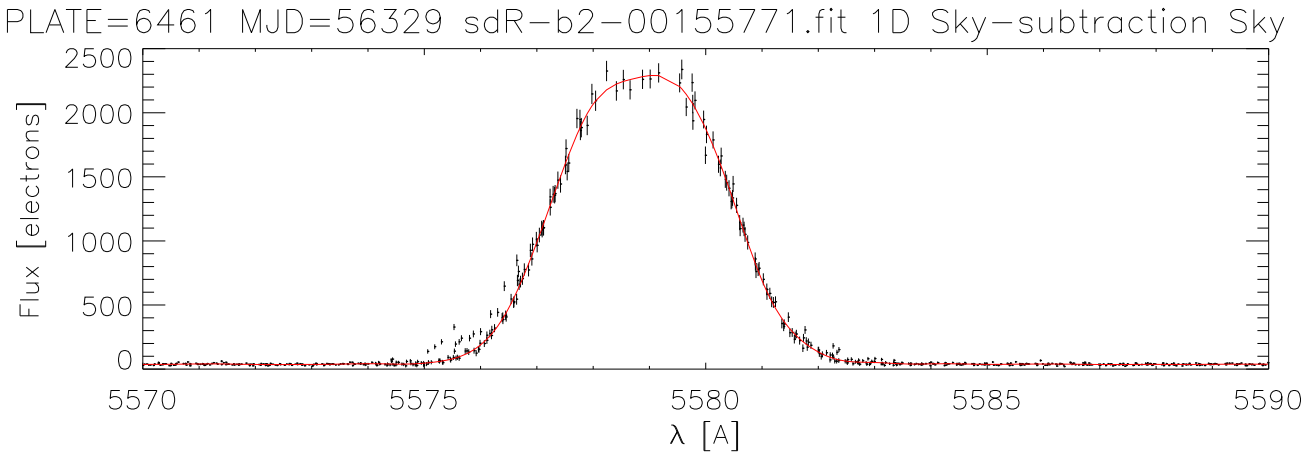

PLATE=6461 MJD=56329 Fiber−Flats for sdR−b2−00155770.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −2.222
Max value = 4.428
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sat May 28 11:24:05 2016

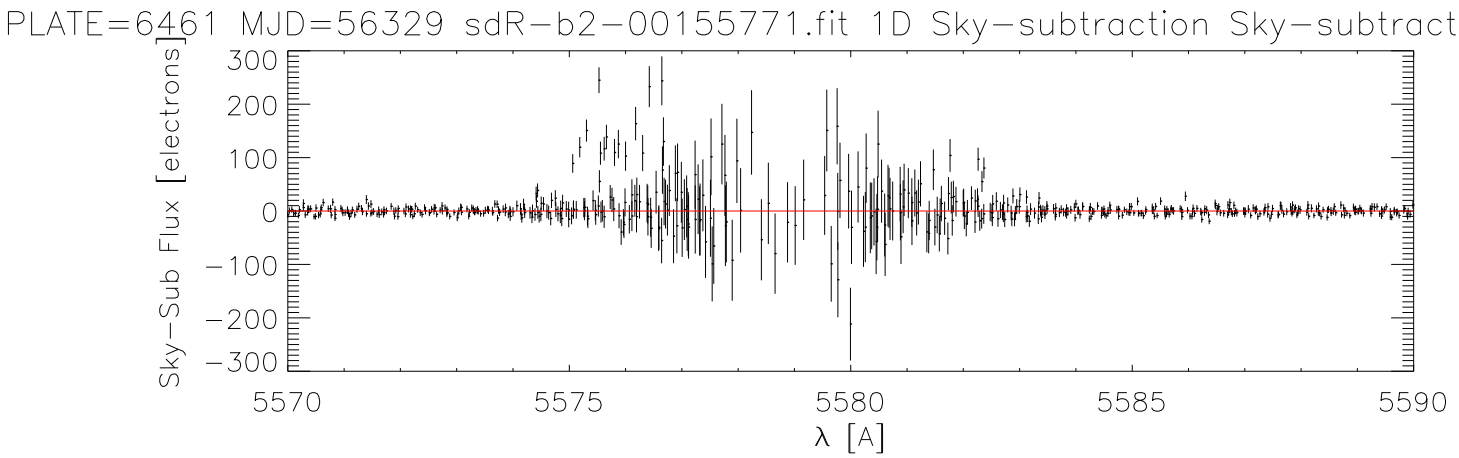

PLATE=6461 MJD=56329 Extraction chi^2 for sdR-b2-00155771.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=6461 MJD=56329 Sky Line Deviations for sdR-b2-00155771.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

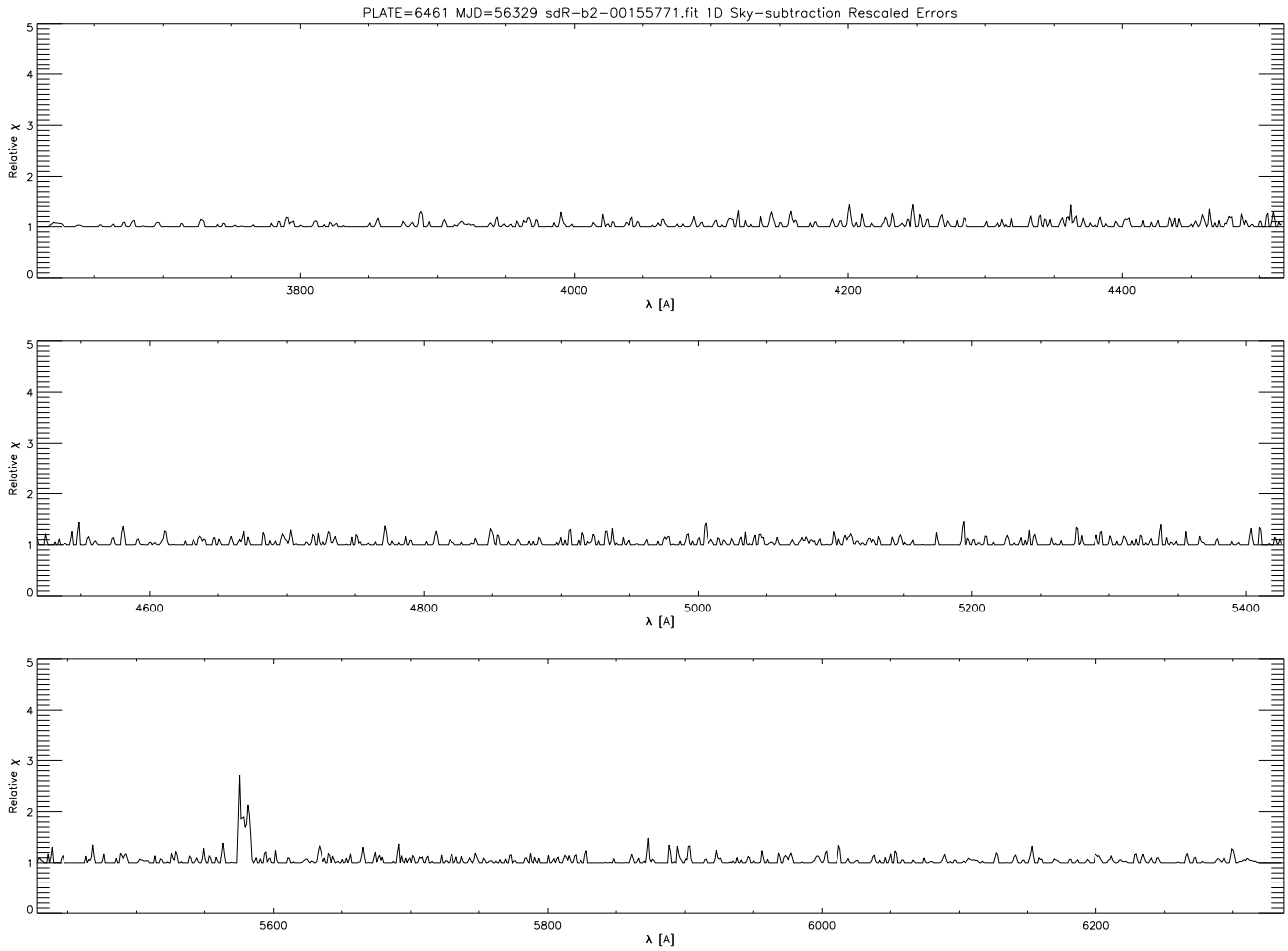

PLATE=6461 MJD=56329 Smooth superflat for sdR-b2-00155771.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

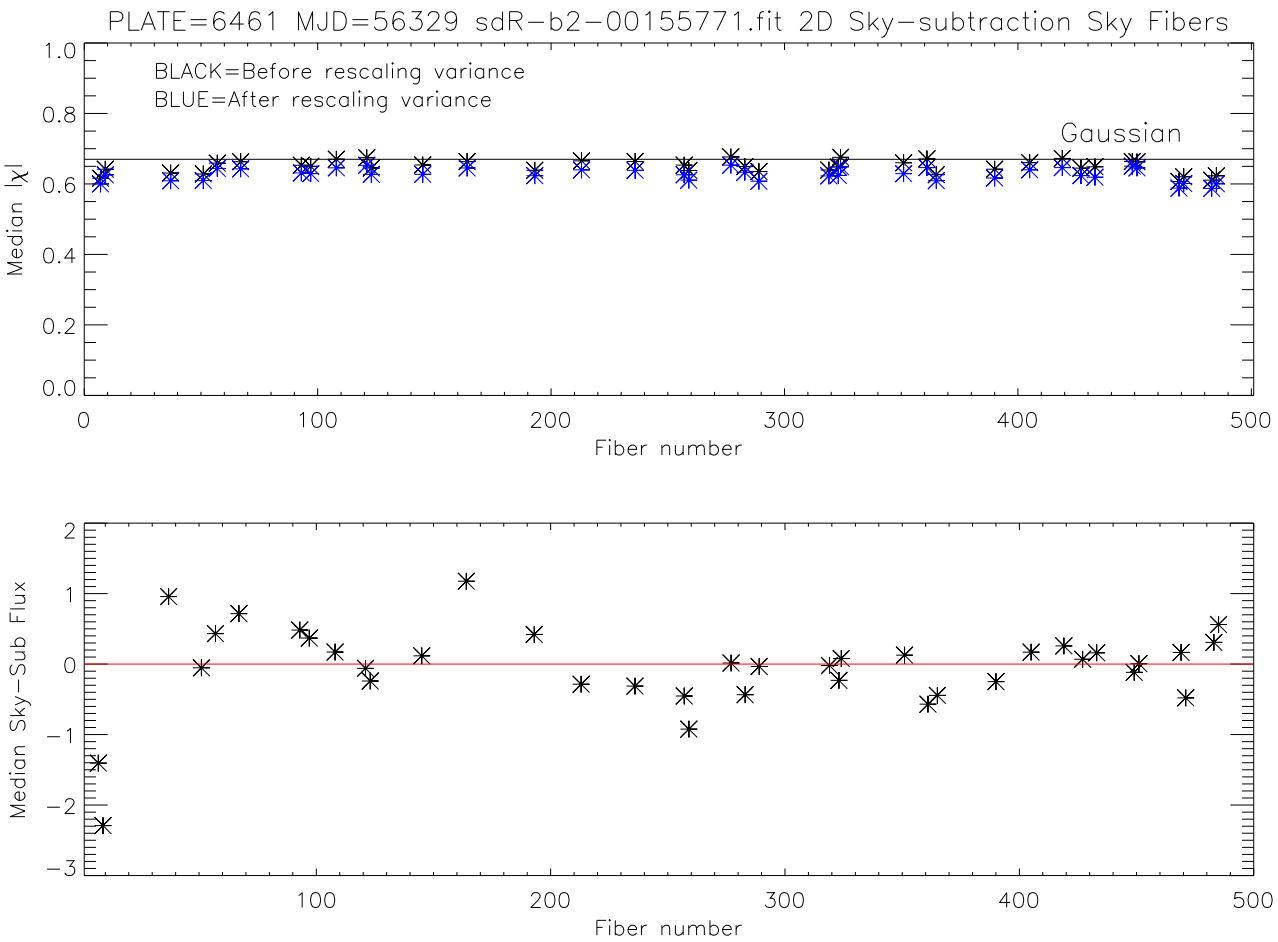

PLATE=6461 MJD=56329 sdR-b2-00155771.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

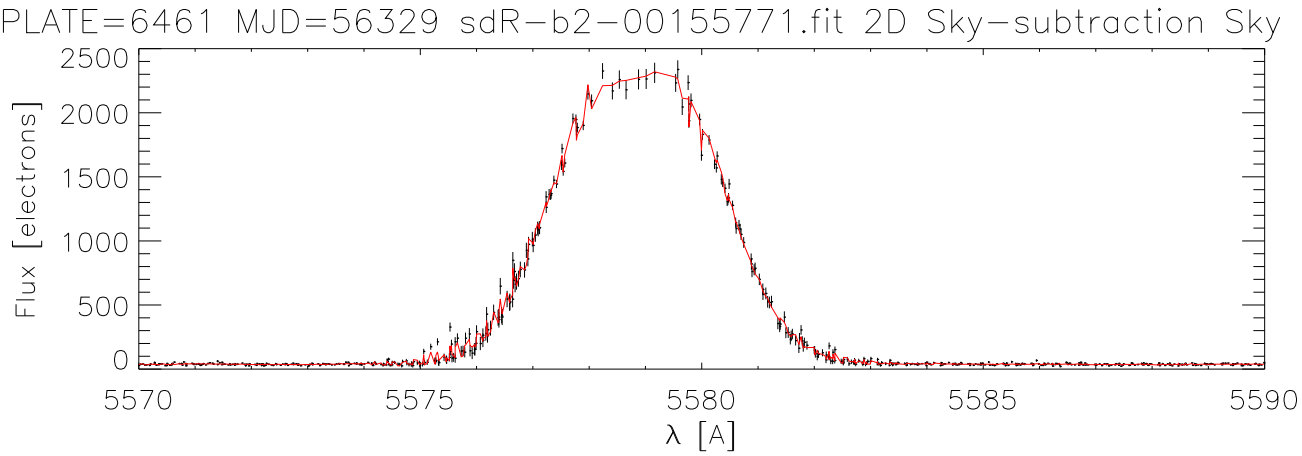

PLATE=6461 MJD=56329 sdR-b2-00155771.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

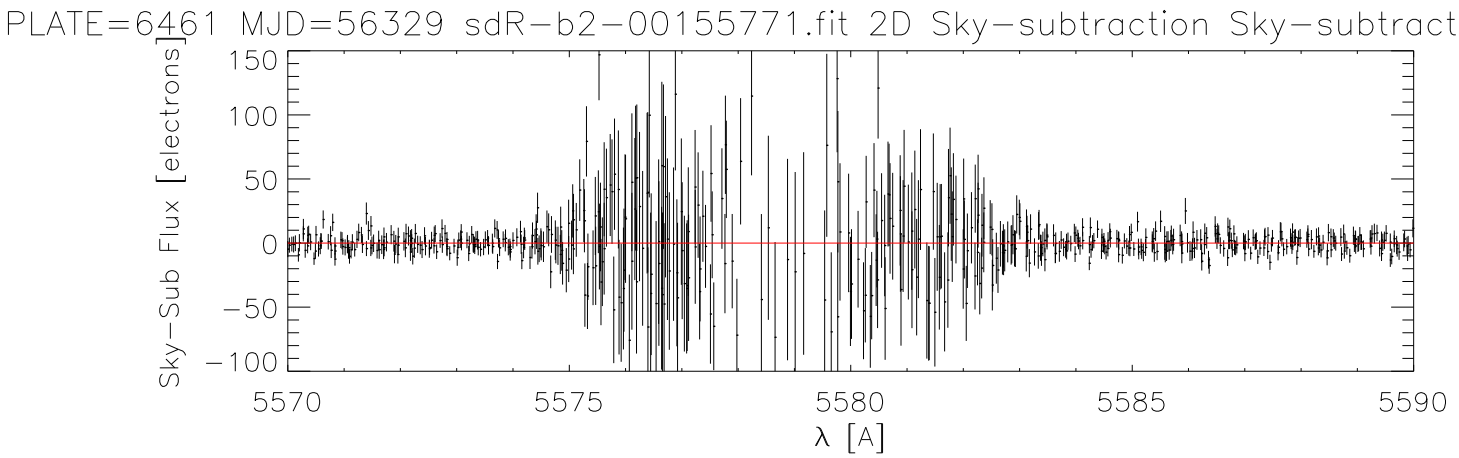

PLATE=6461 MJD=56329 sdR-b2-00155771.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 38

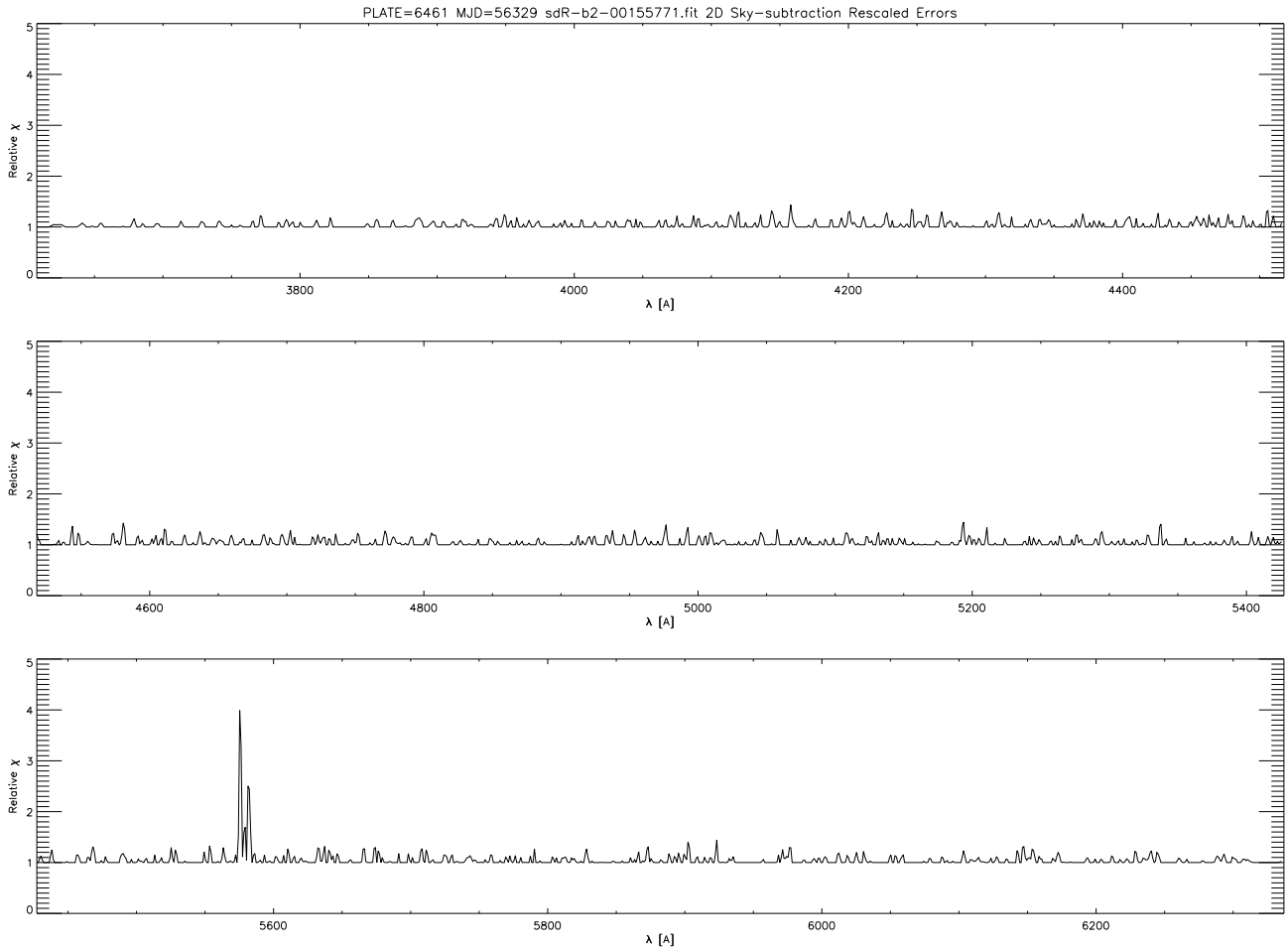


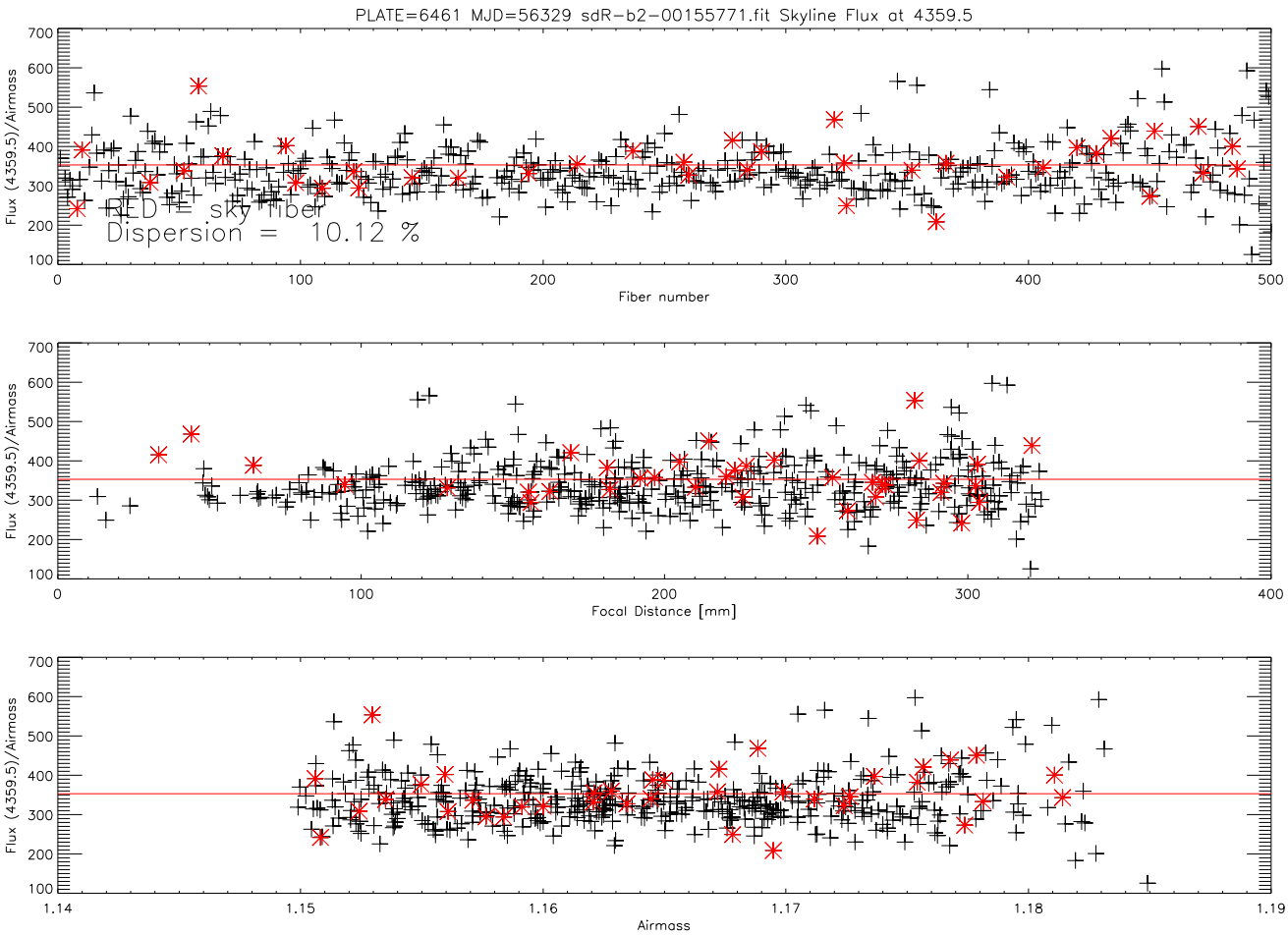

PLATE=6461 MJD=56329 sdR-b2-00155771.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

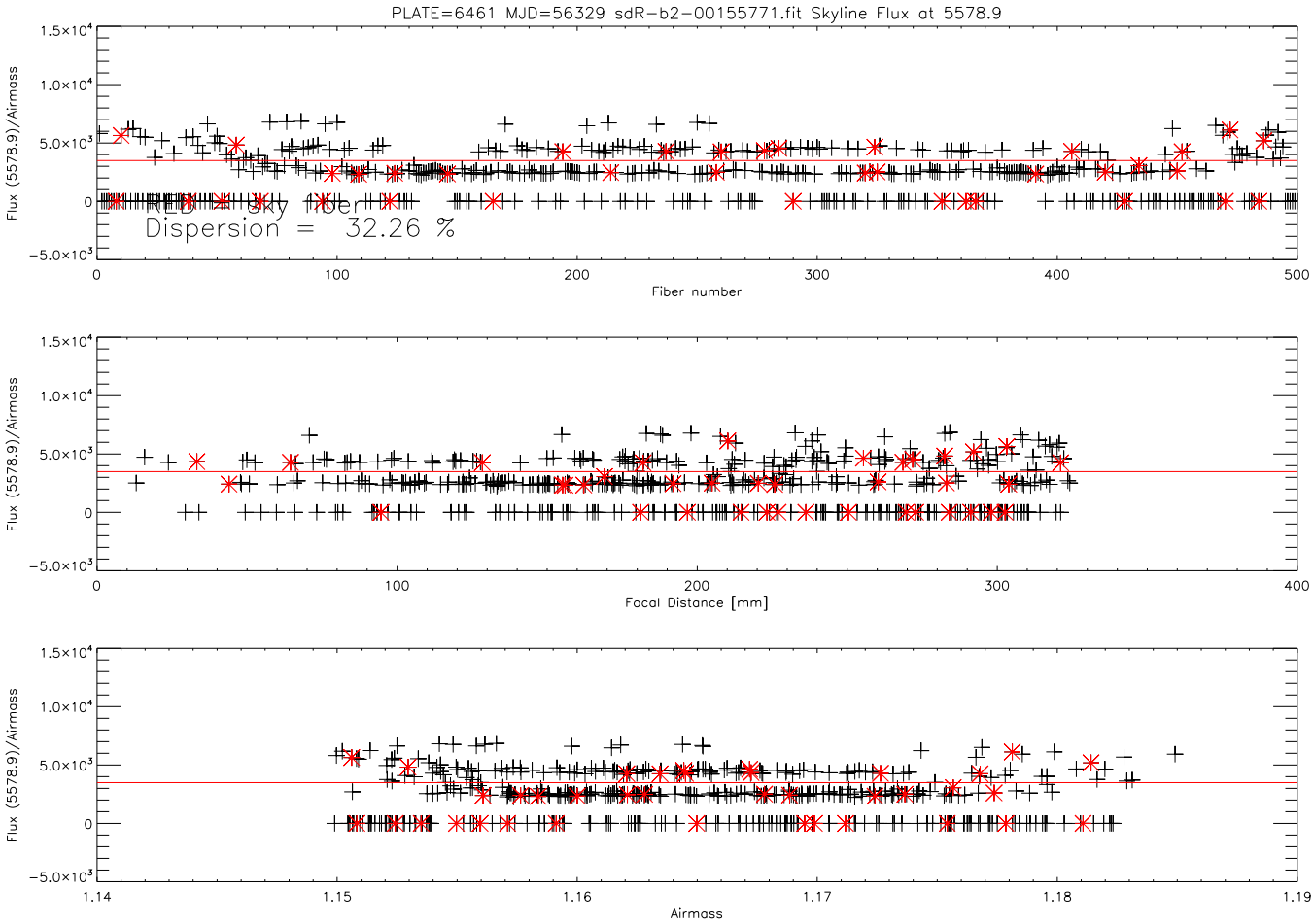

PLATE=6461 MJD=56329 sdR-b2-00155771.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

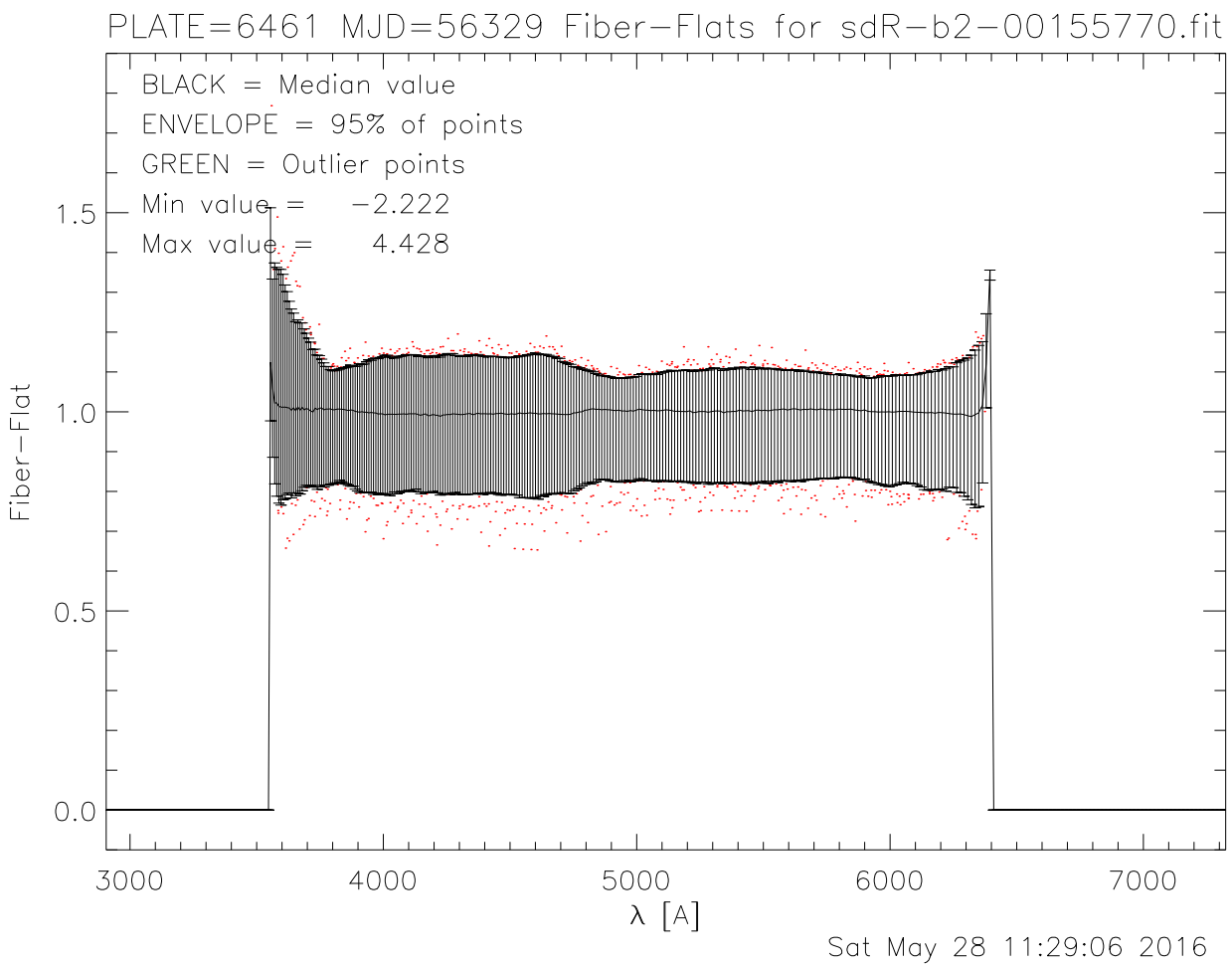

PLATE=6461 MJD=56329 sdR-b2-00155771.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
5570
5575
5580
5585
5590
λ [A]

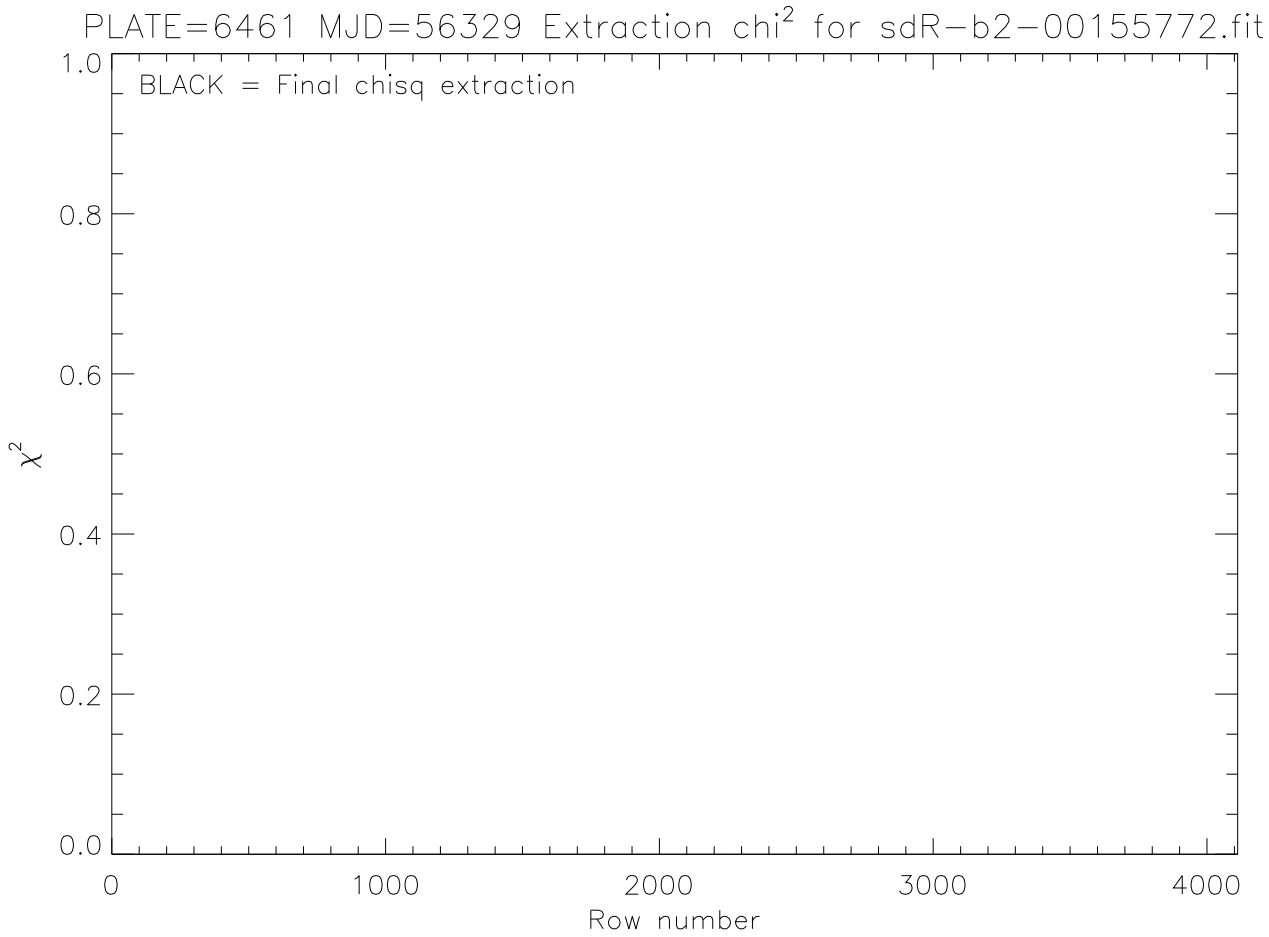
Number of sky fibers = 38

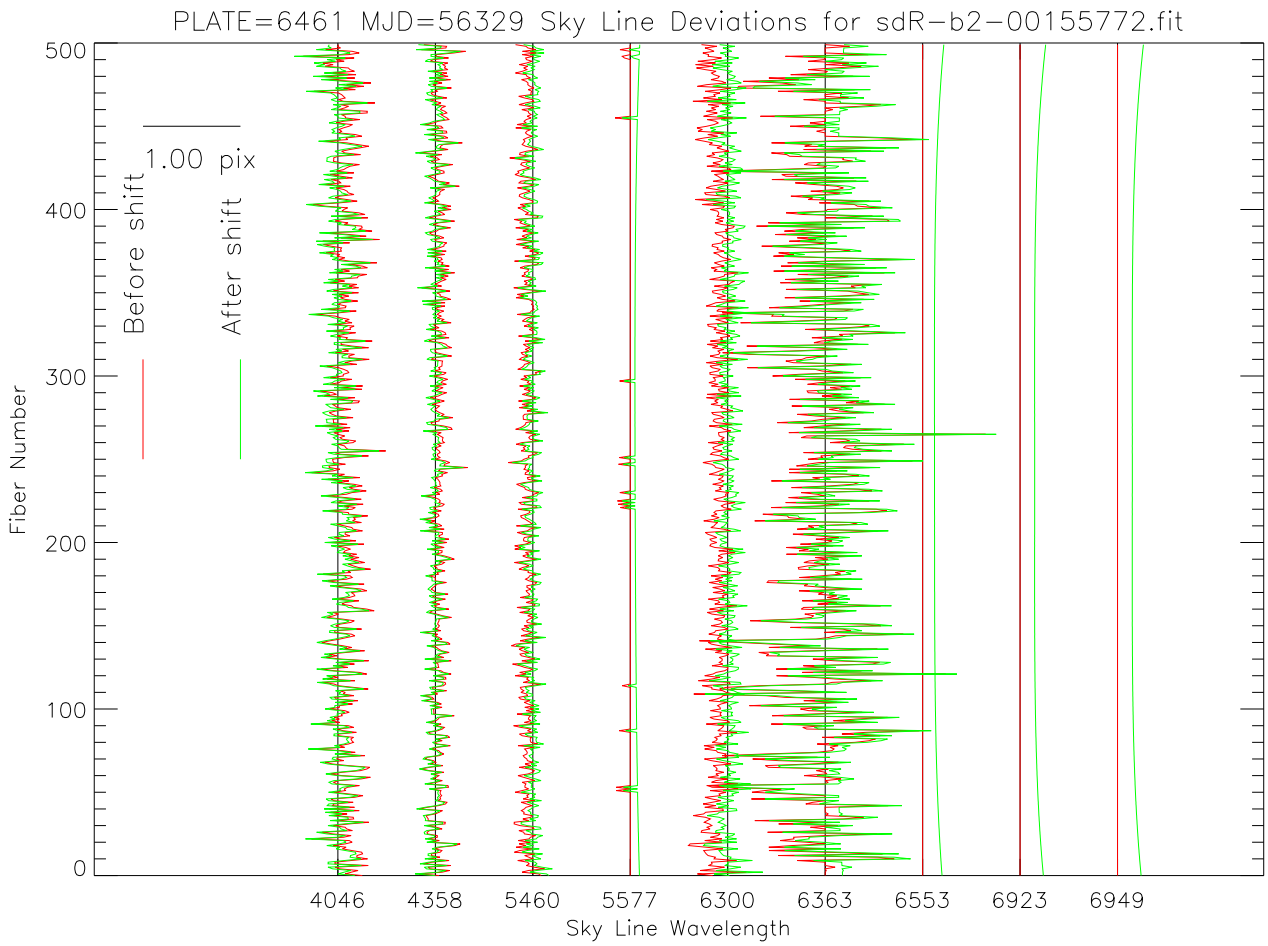


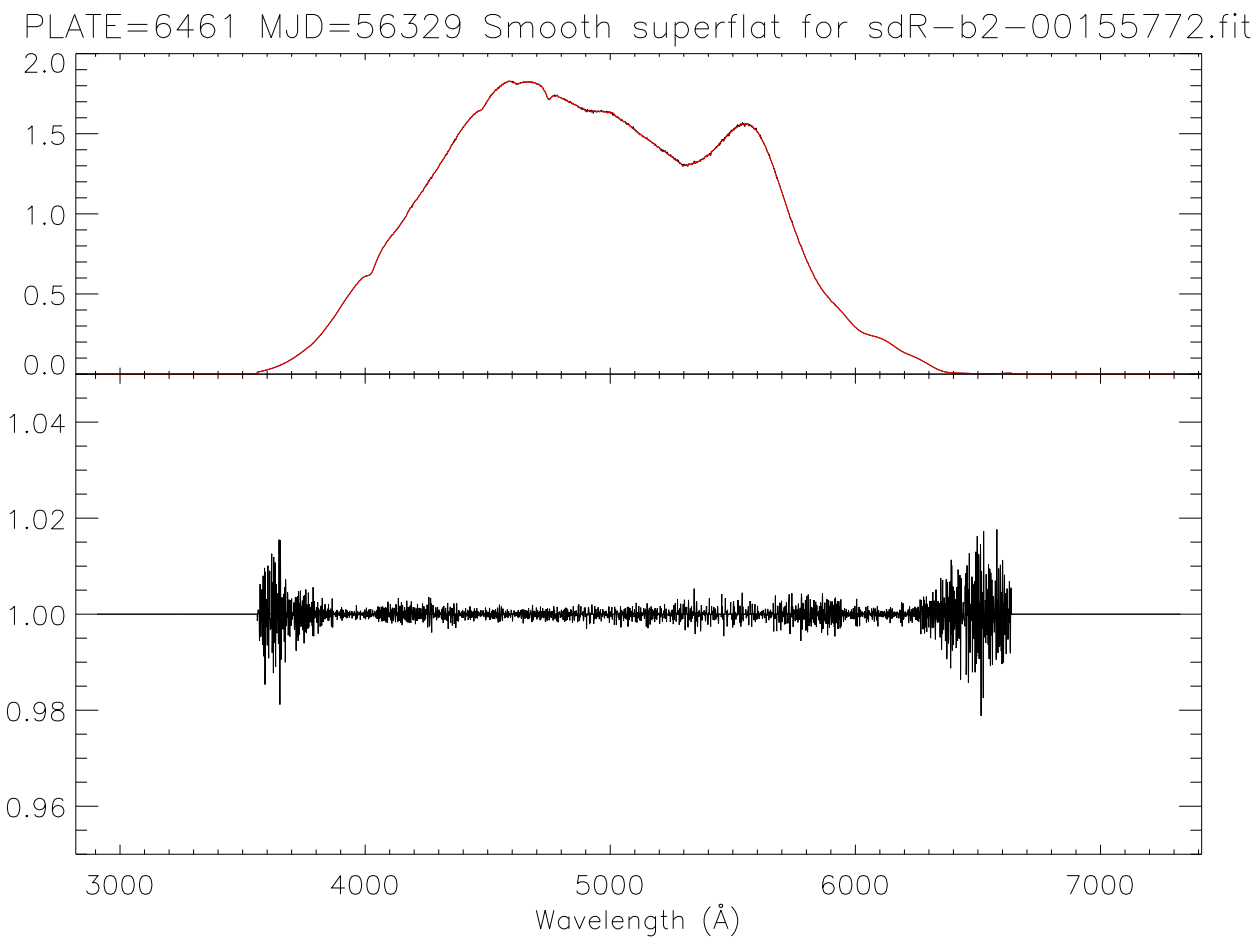

PLATE=6461 MJD=56329 sdR-b2-00155771.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED sky fiber
Dispersion = 10.12 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

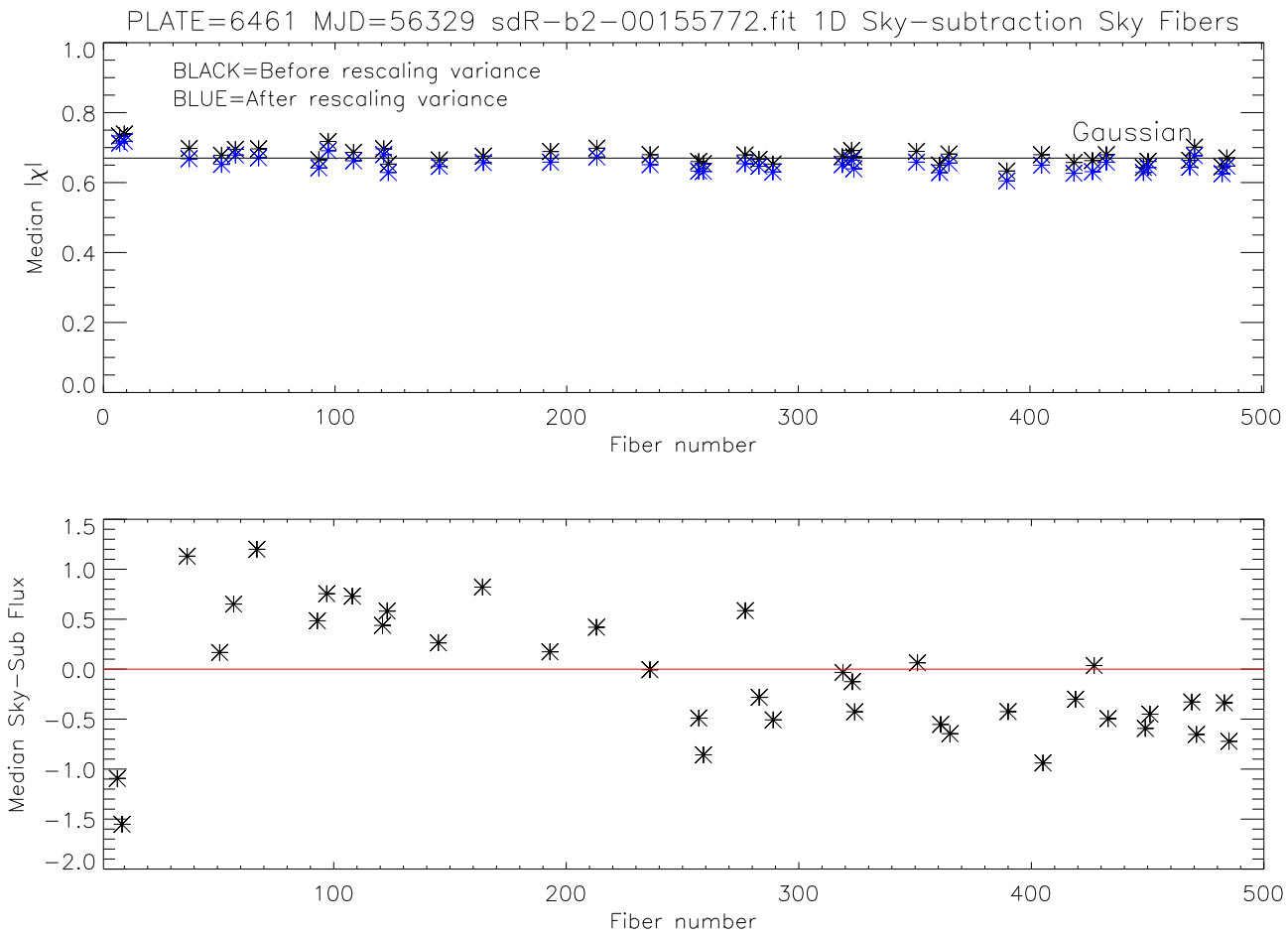

PLATE=6461 MJD=56329 sdR-b2-00155771.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
1.5×10⁴
1.0×10⁴
5.0×10³
0
−5.0×10³
0
100
200
300
400
500
Fiber number
Mean sky fiber
Dispersion = 32.26 %
Flux (5578.9)/Airmass
1.5×10⁴
1.0×10⁴
5.0×10³
0
−5.0×10³
0
100
200
300
400
Focal Distance [mm]
Flux (5578.9)/Airmass
1.5×10⁴
1.0×10⁴
5.0×10³
0
−5.0×10³
1.14
1.15
1.16
1.17
1.18
1.19
Airmass

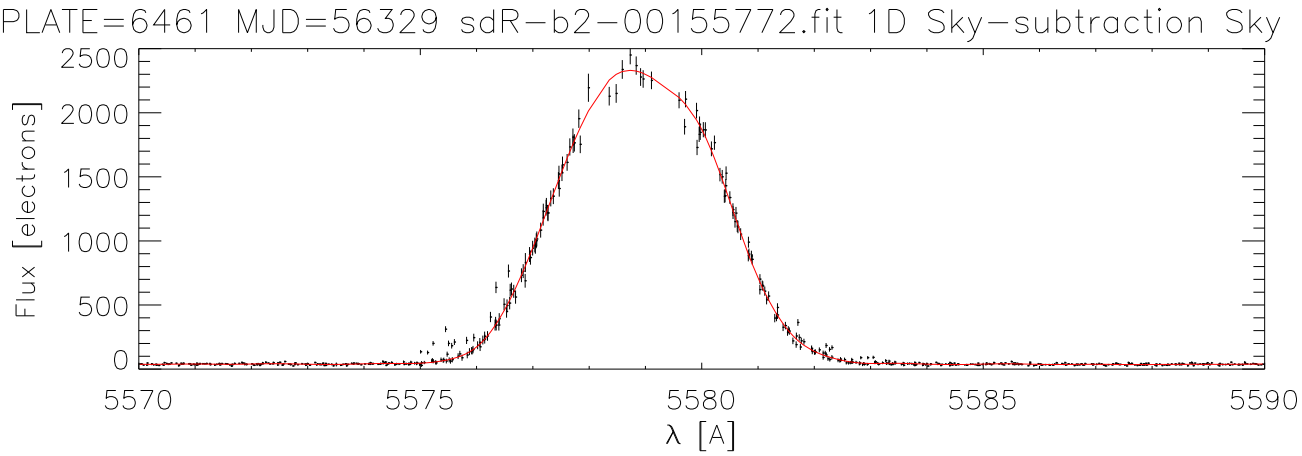

PLATE=6461 MJD=56329 Fiber−Flats for sdR−b2−00155770.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −2.222
Max value = 4.428
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sat May 28 11:29:06 2016

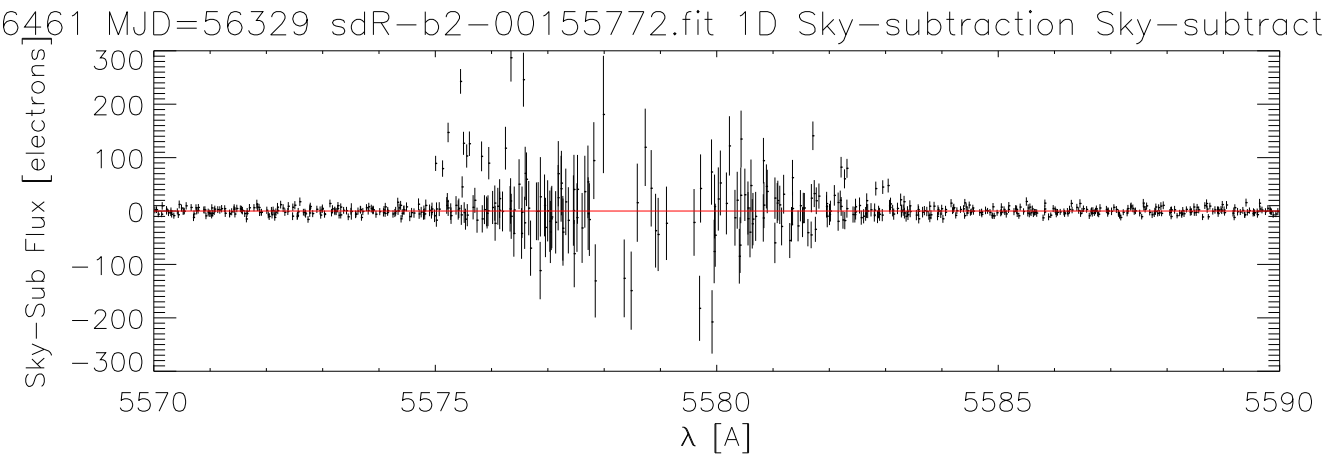

PLATE=6461 MJD=56329 Extraction chi^2 for sdR-b2-00155772.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=6461 MJD=56329 Sky Line Deviations for sdR-b2-00155772.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

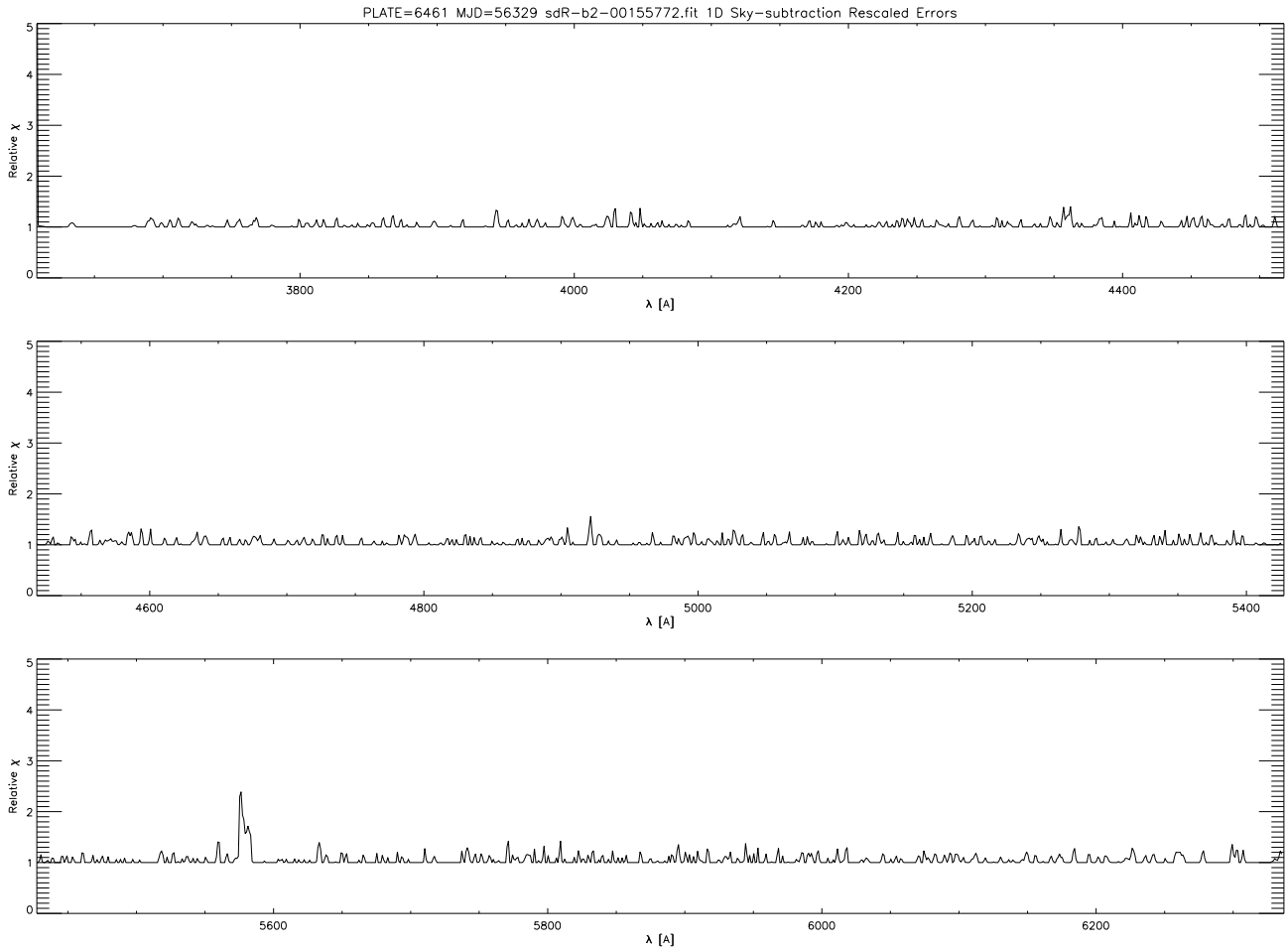

PLATE=6461 MJD=56329 Smooth superflat for sdR-b2-00155772.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

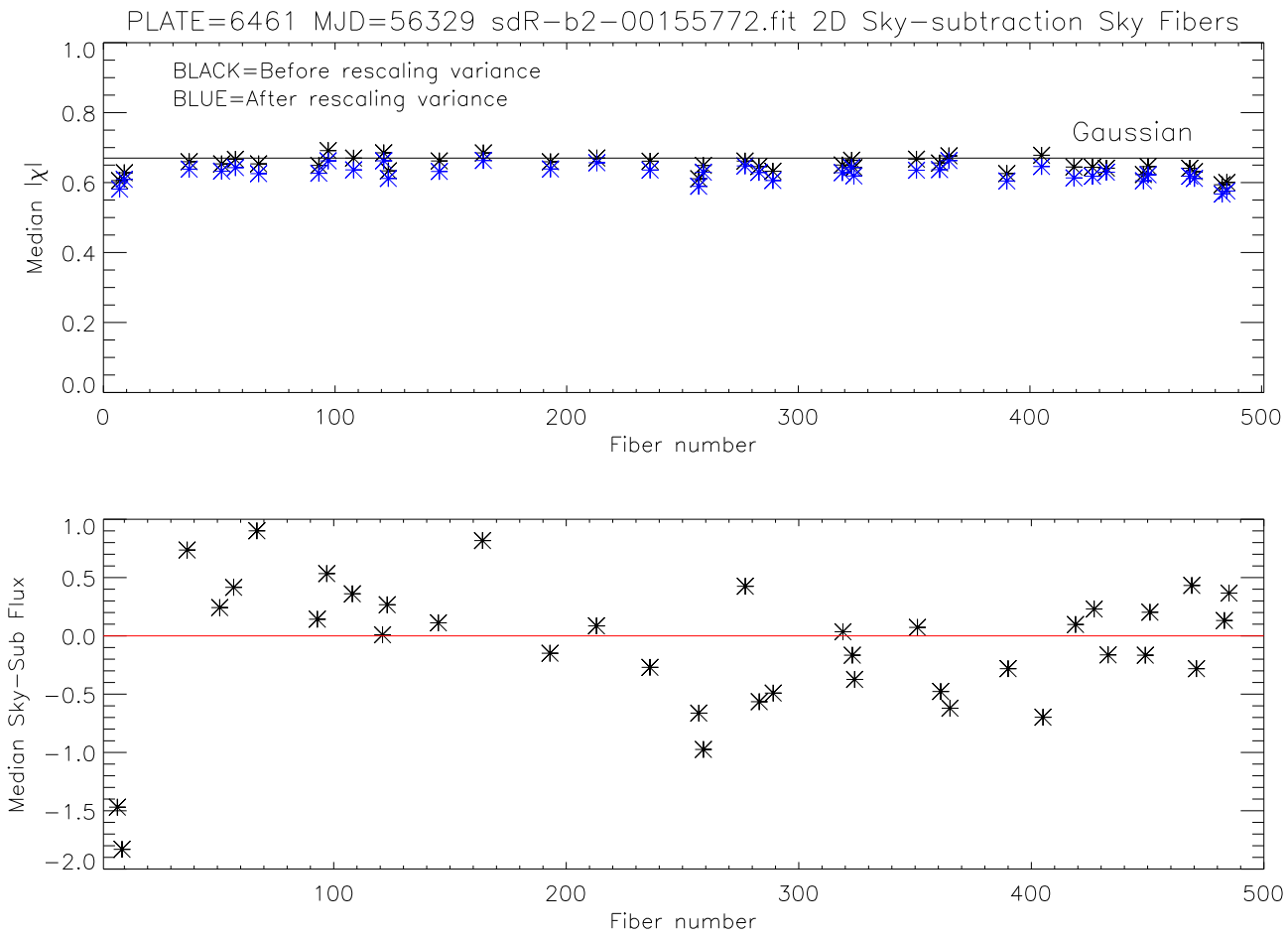

PLATE=6461 MJD=56329 sdR-b2-00155772.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

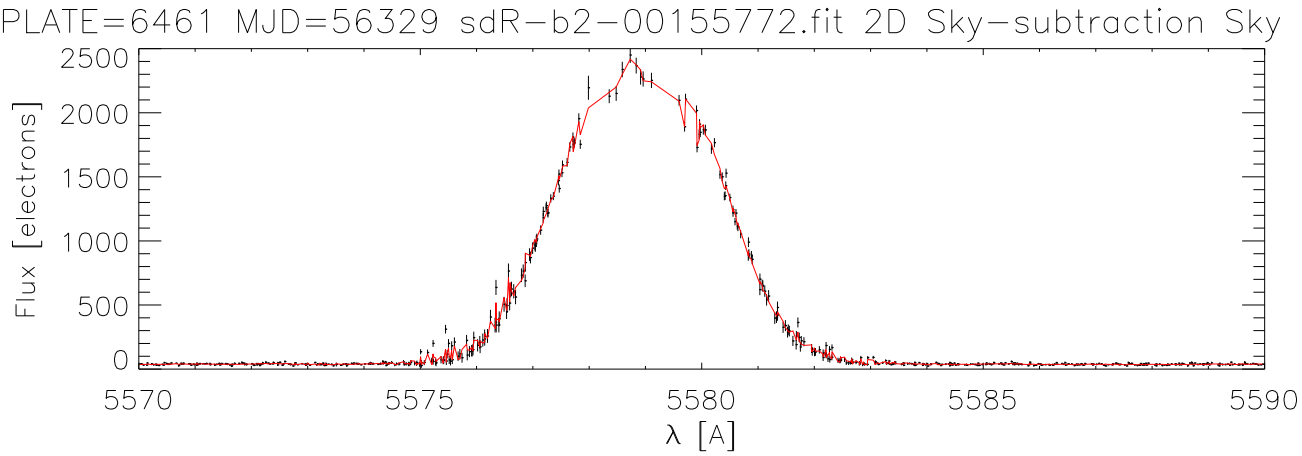

PLATE=6461 MJD=56329 sdR-b2-00155772.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

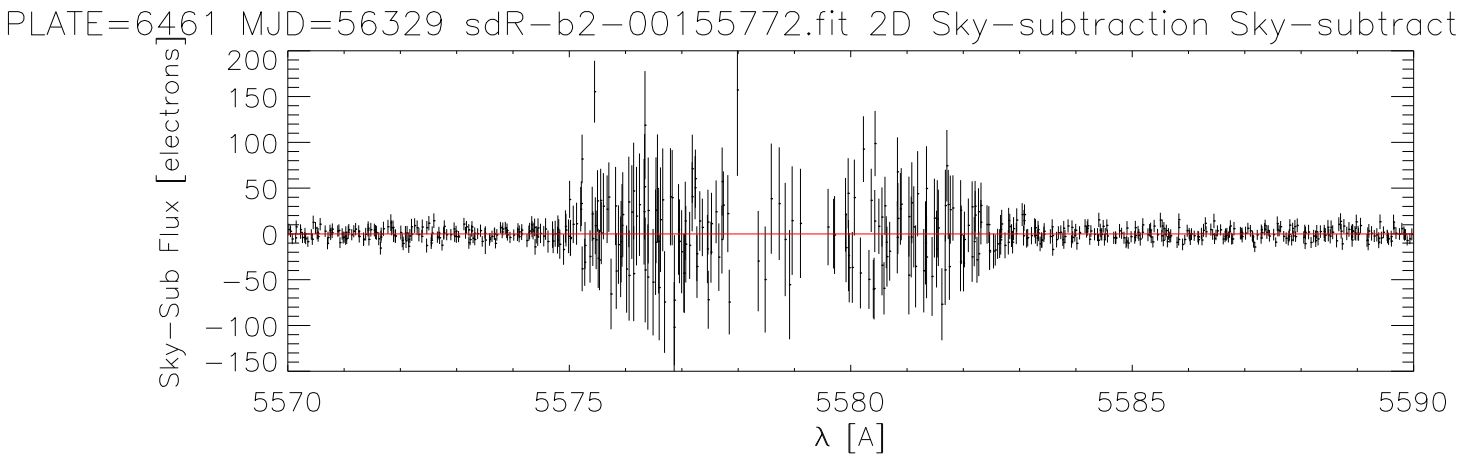

PLATE=6461 MJD=56329 sdR-b2-00155772.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 38

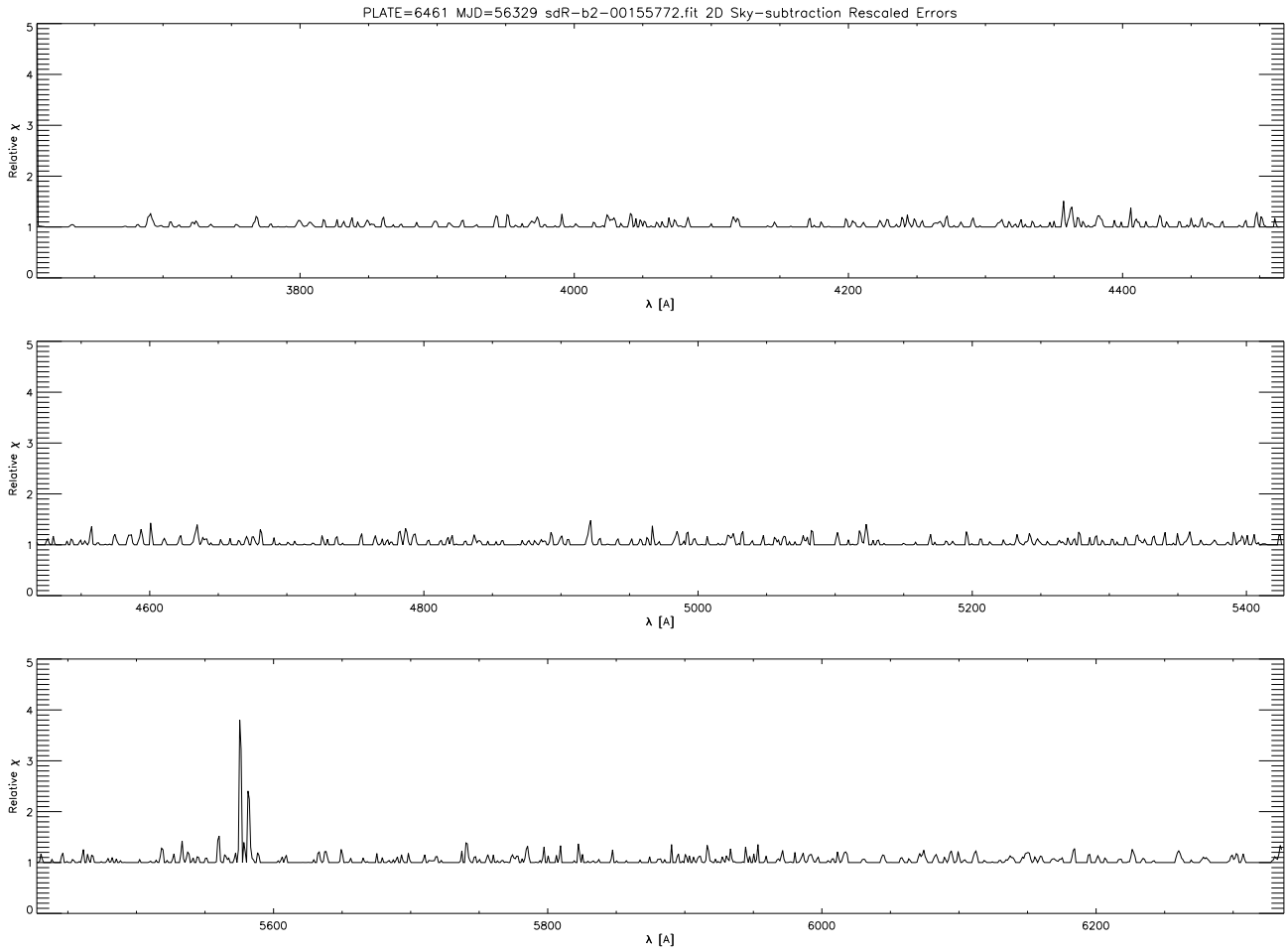


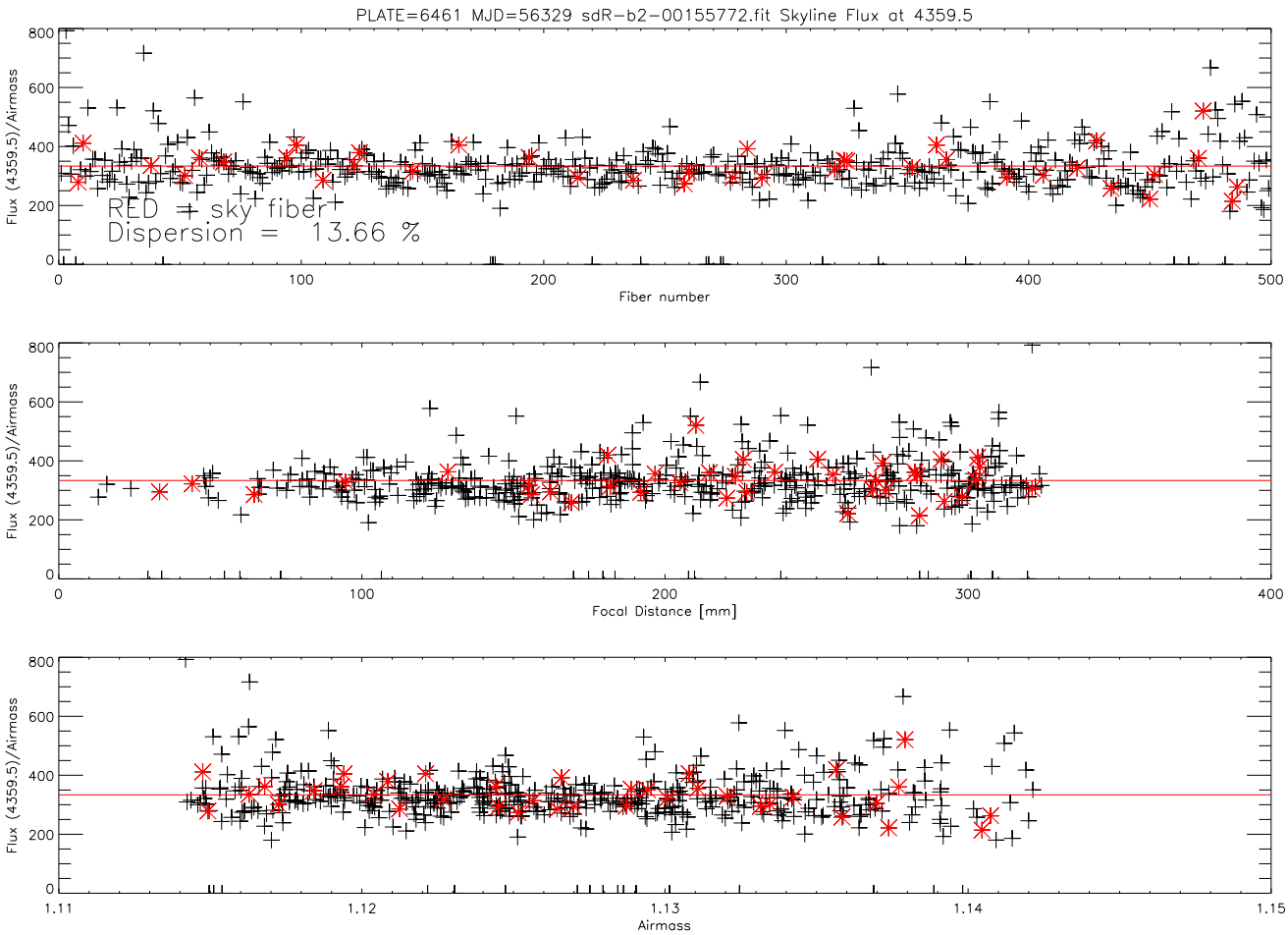

PLATE=6461 MJD=56329 sdR-b2-00155772.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

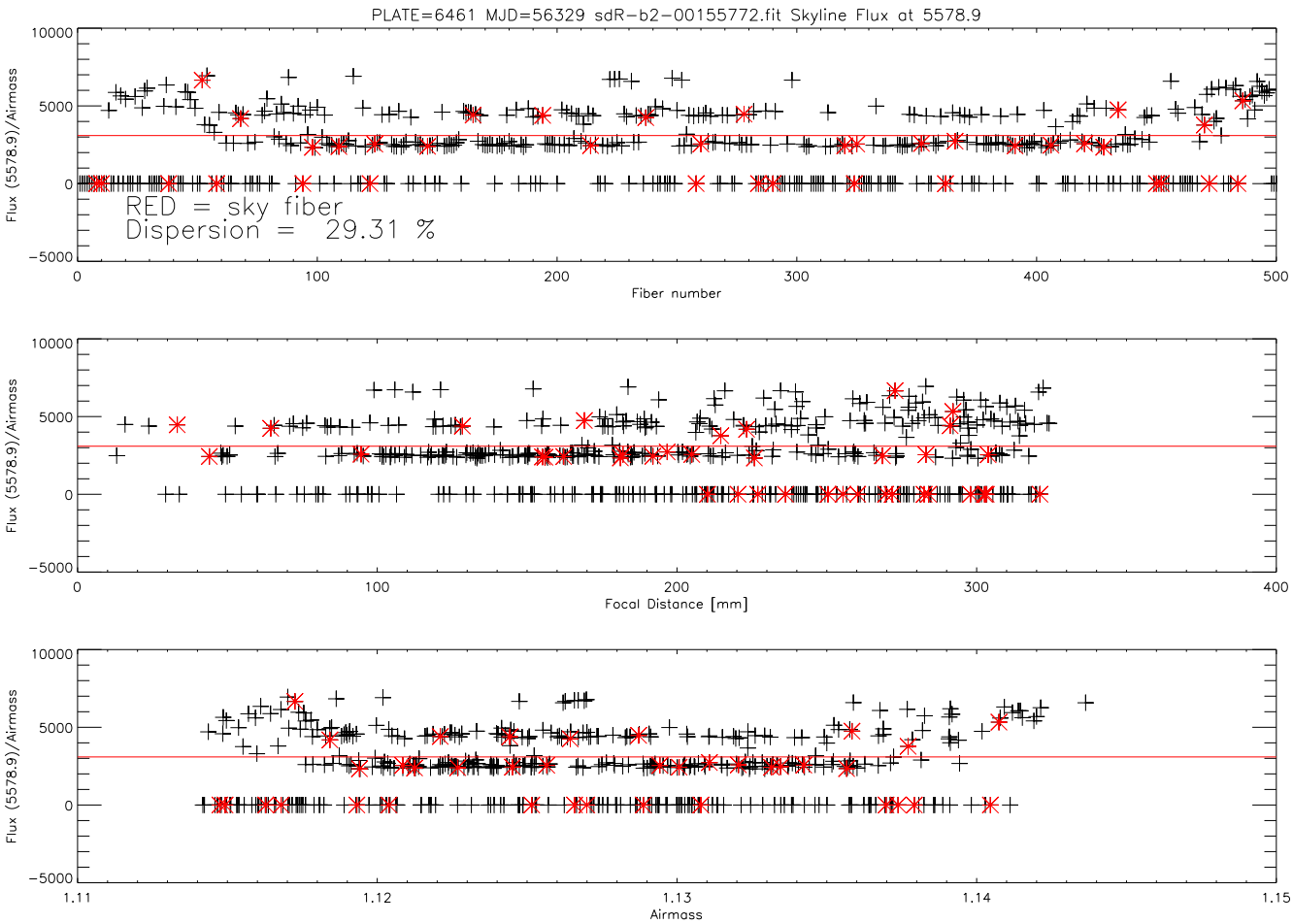

PLATE=6461 MJD=56329 sdR-b2-00155772.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

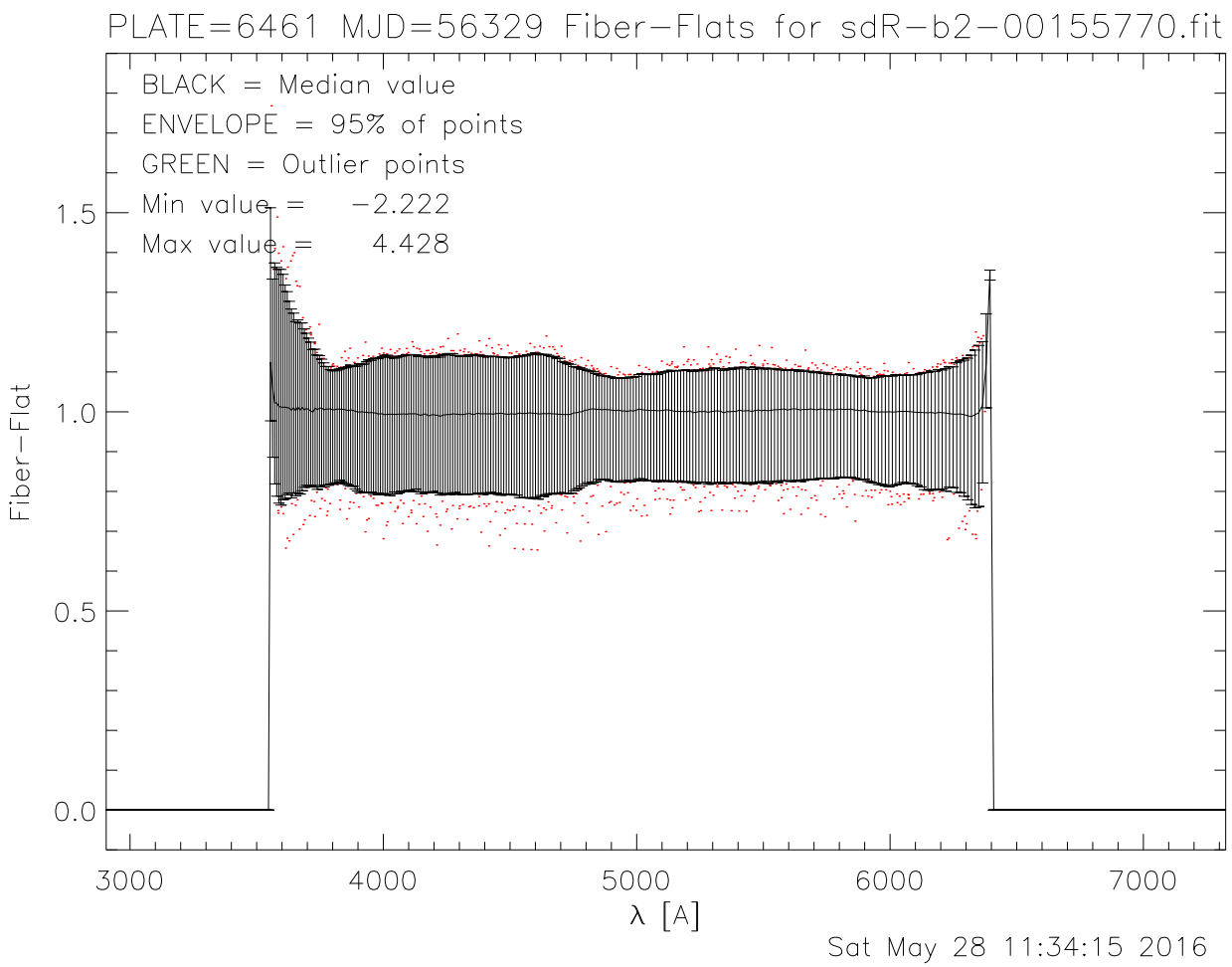

PLATE=6461 MJD=56329 sdR-b2-00155772.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
150
100
50
0
-50
-100
-150
5570
5575
5580
5585
5590
λ [A]

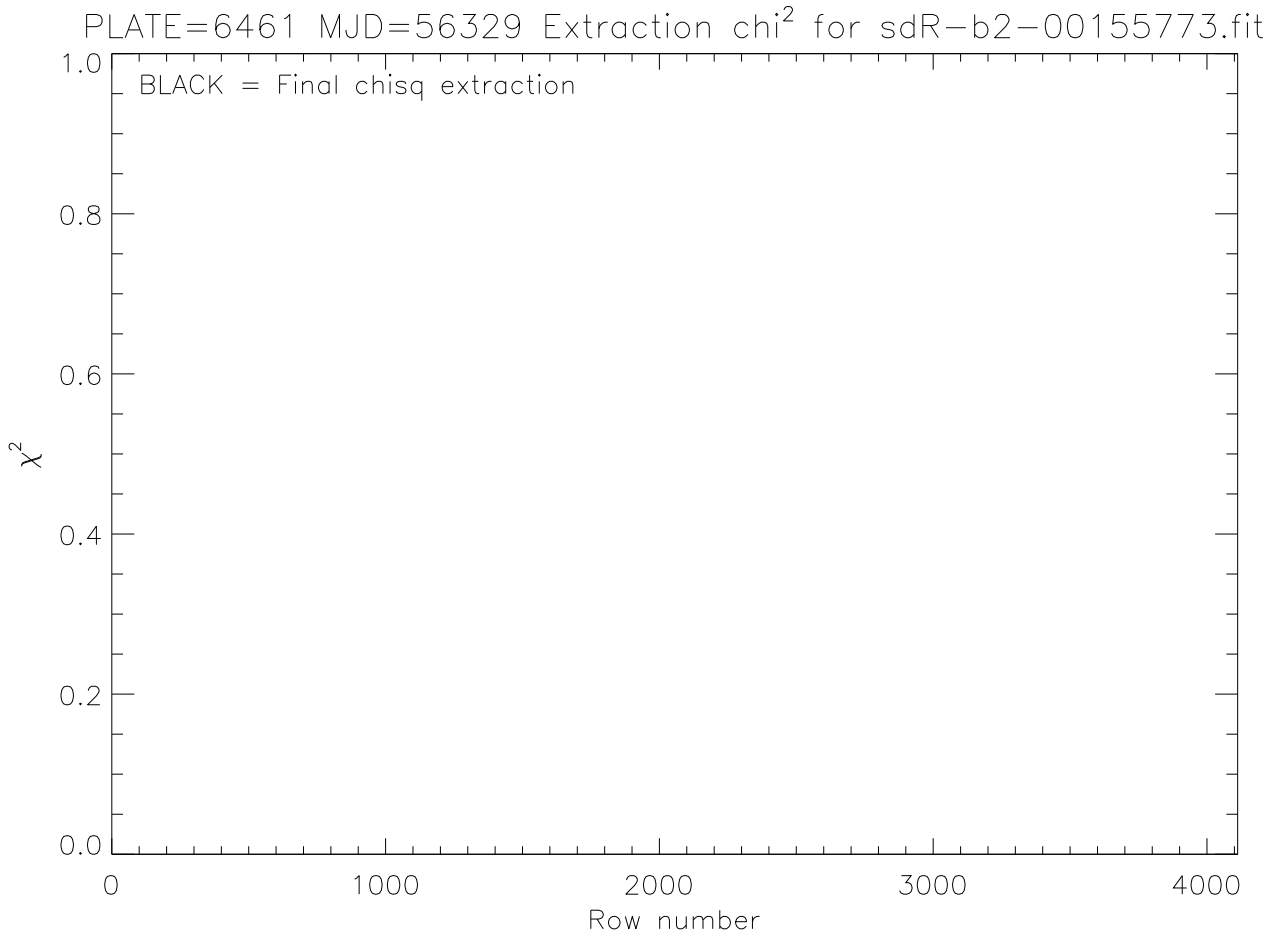
Number of sky fibers = 38

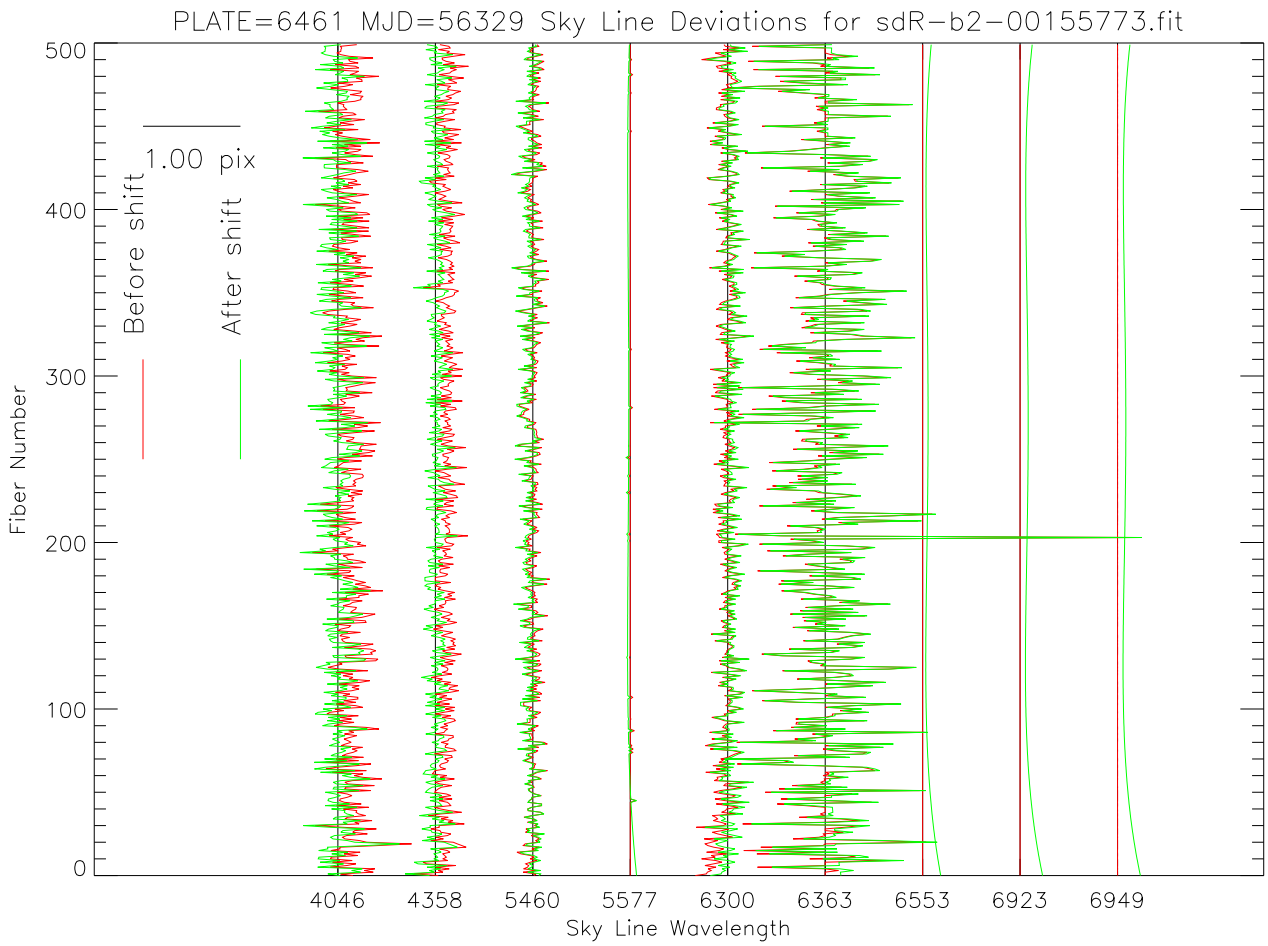


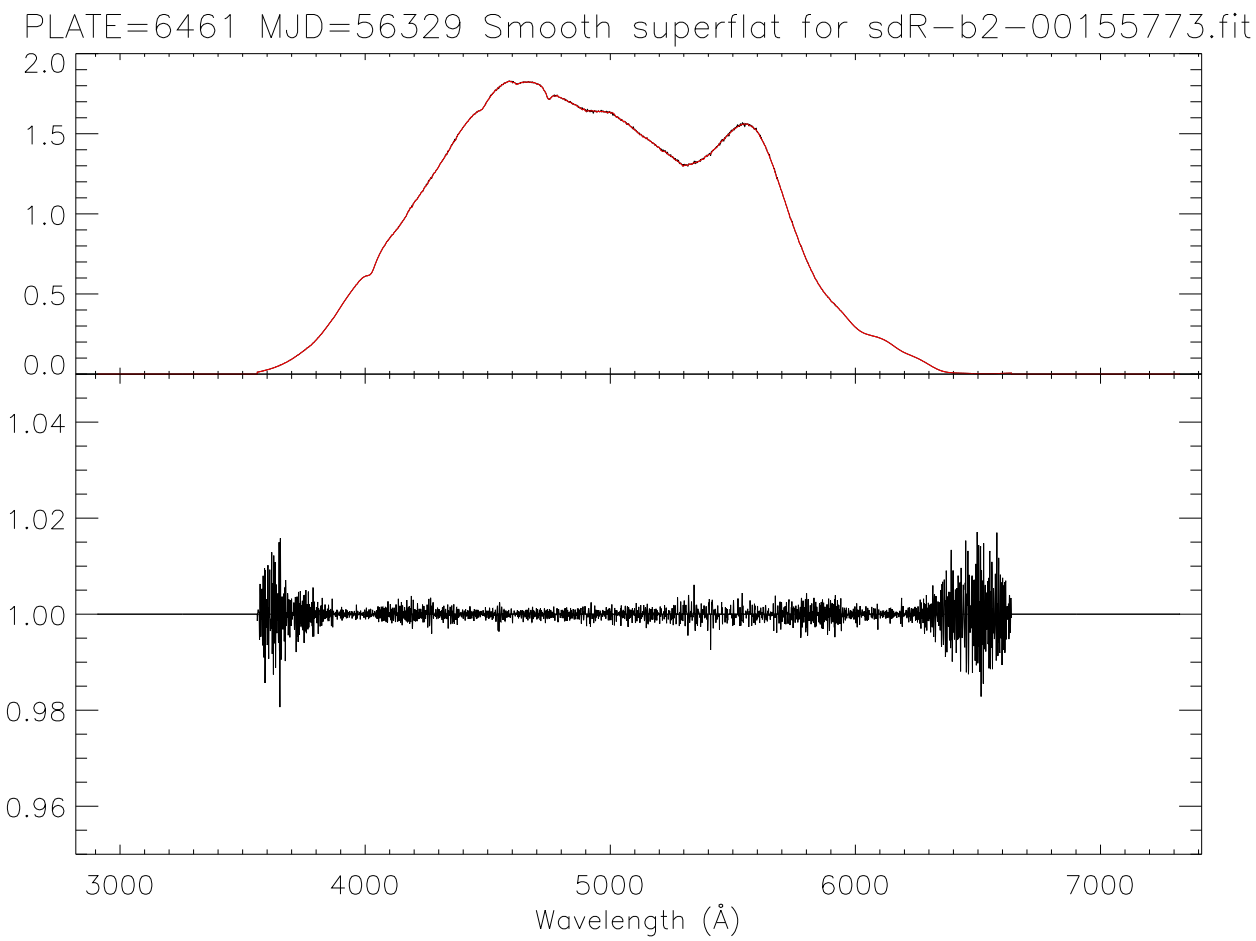

PLATE=6461 MJD=56329 sdR-b2-00155772.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 13.66 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

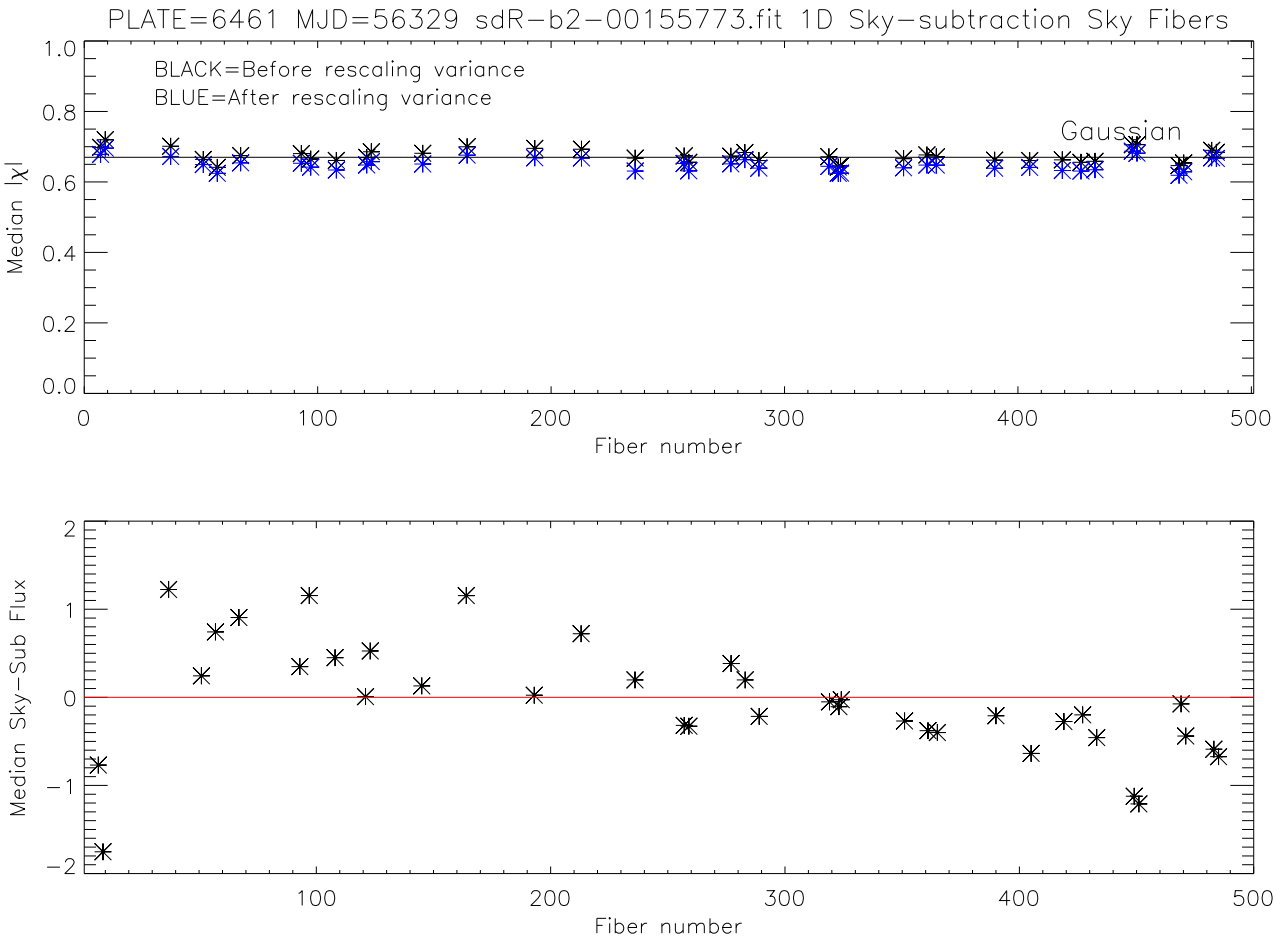

PLATE=6461 MJD=56329 sdR-b2-00155772.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 29.31 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

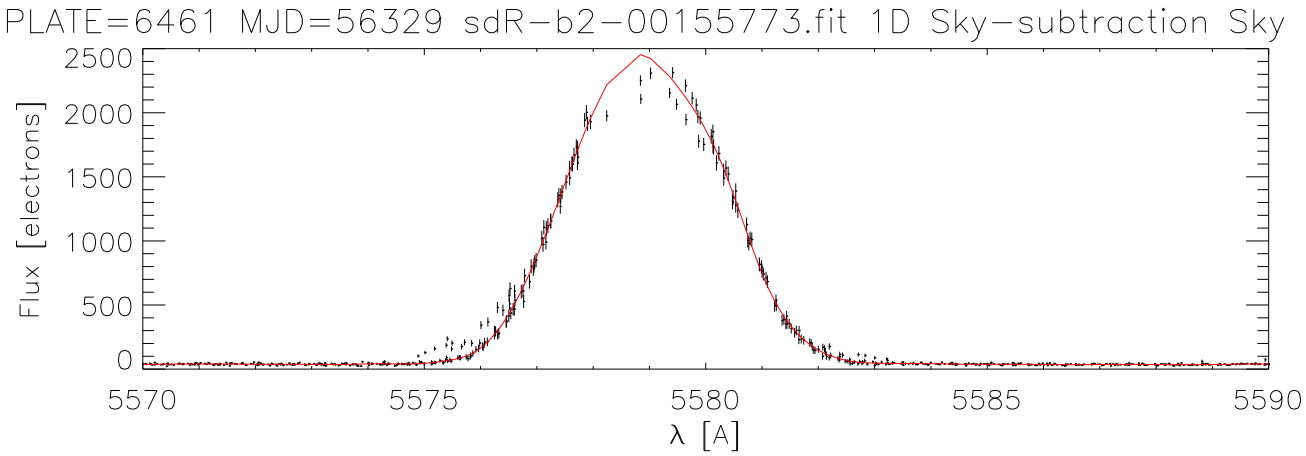

PLATE=6461 MJD=56329 Fiber−Flats for sdR−b2−00155770.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −2.222
Max value = 4.428
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sat May 28 11:34:15 2016

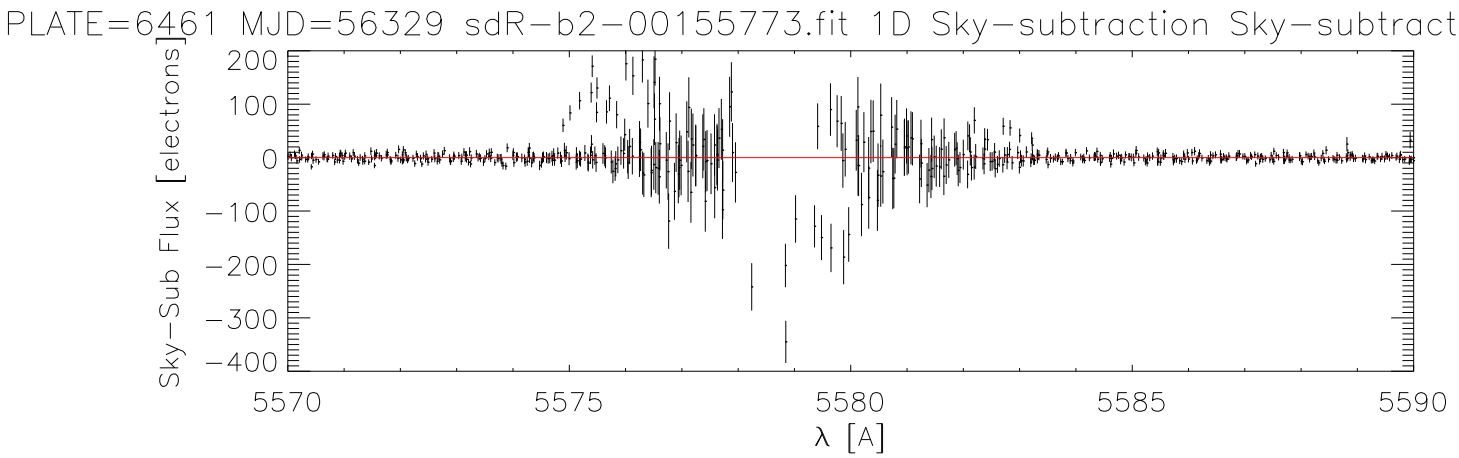

PLATE=6461 MJD=56329 Extraction chi^2 for sdR-b2-00155773.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=6461 MJD=56329 Sky Line Deviations for sdR-b2-00155773.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

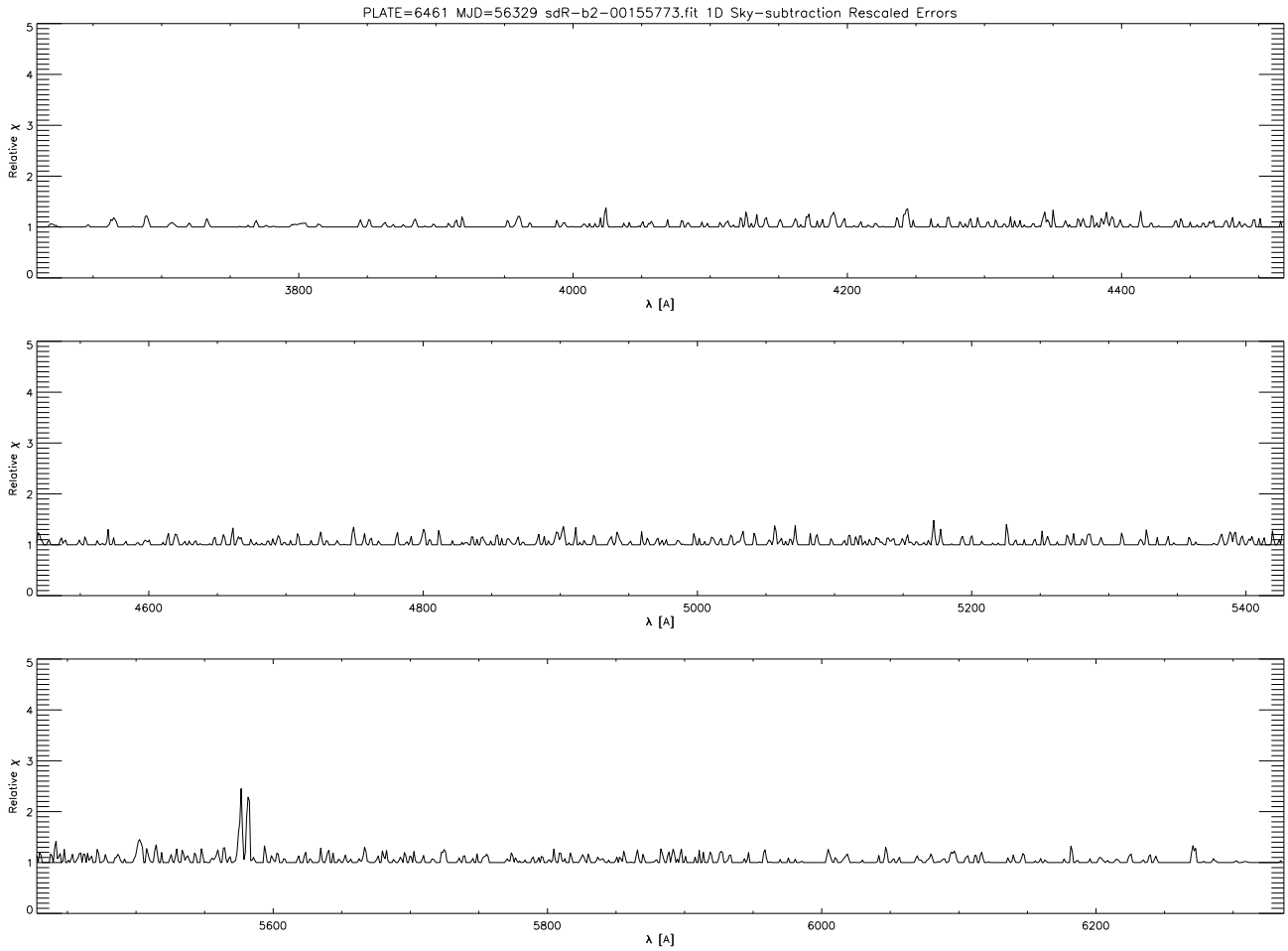

PLATE=6461 MJD=56329 Smooth superflat for sdR-b2-00155773.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

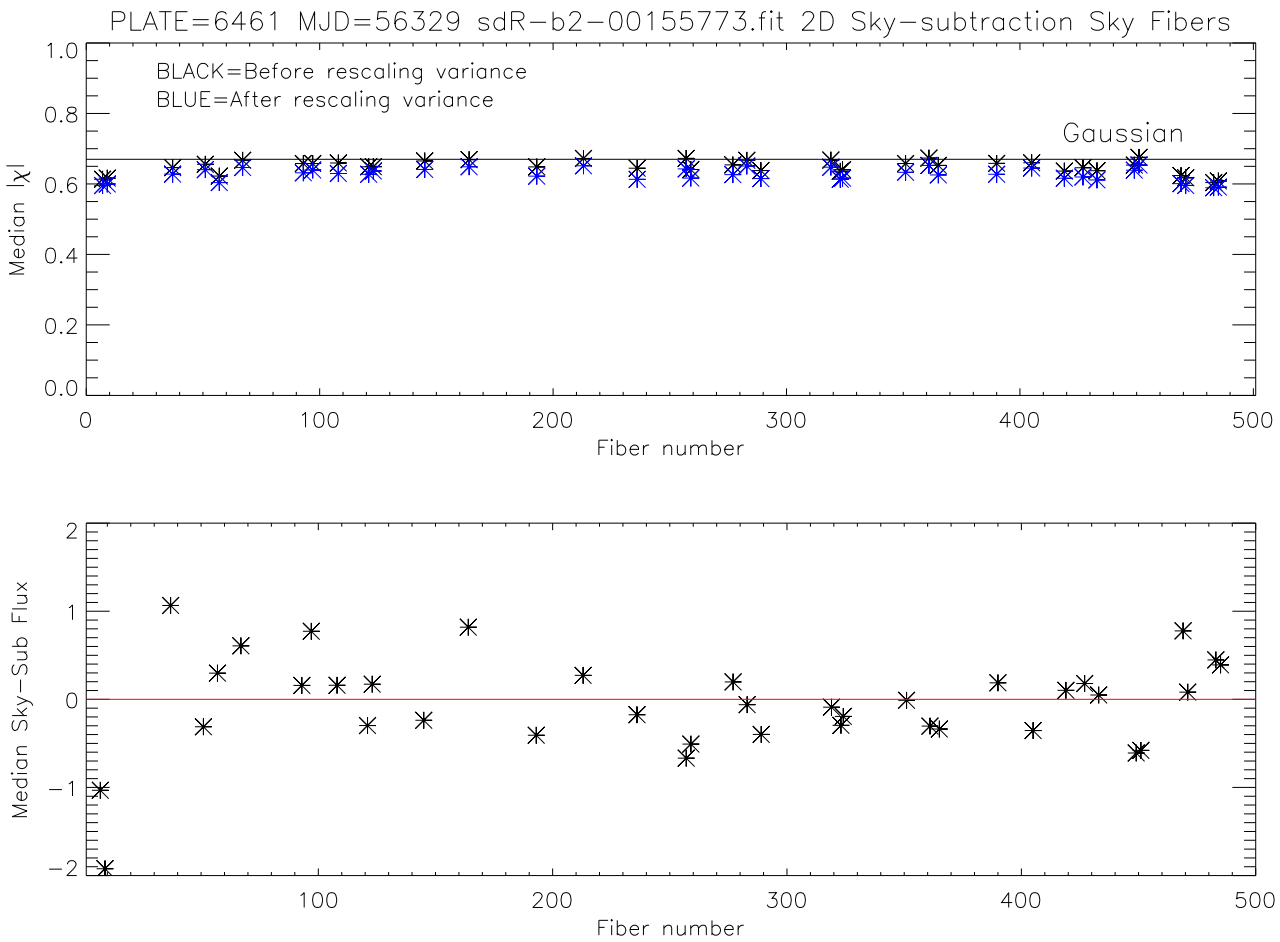

PLATE=6461 MJD=56329 sdR-b2-00155773.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

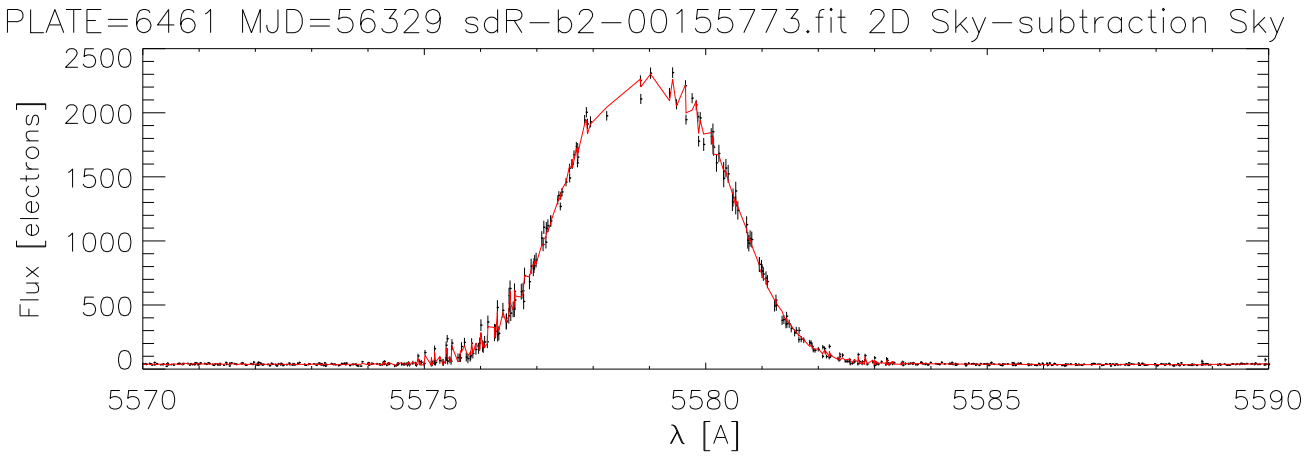

PLATE=6461 MJD=56329 sdR-b2-00155773.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

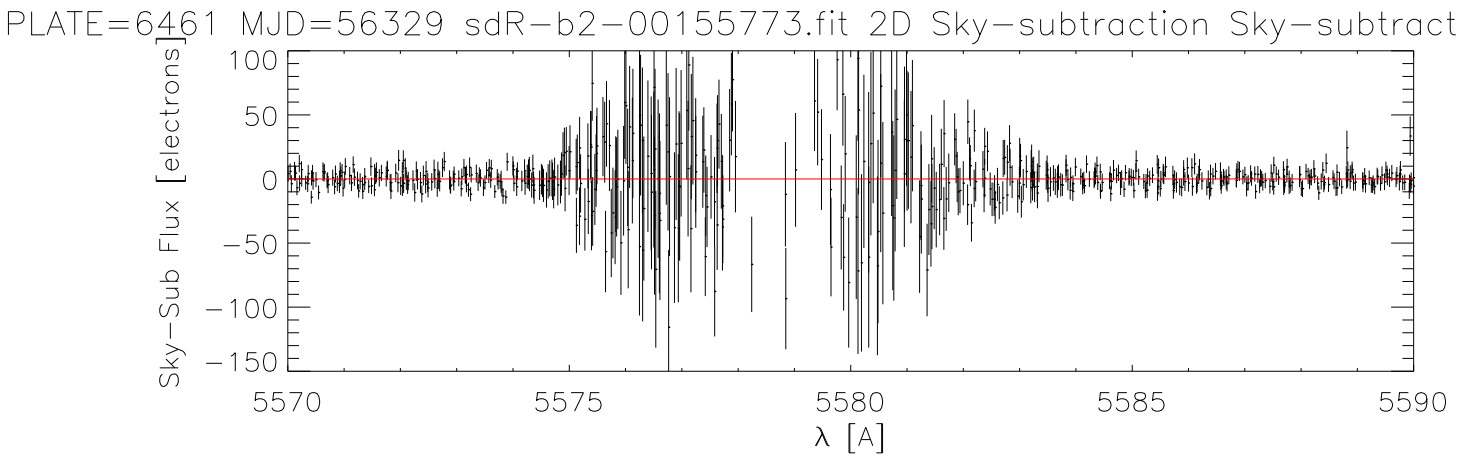

PLATE=6461 MJD=56329 sdR-b2-00155773.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
-400
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 38

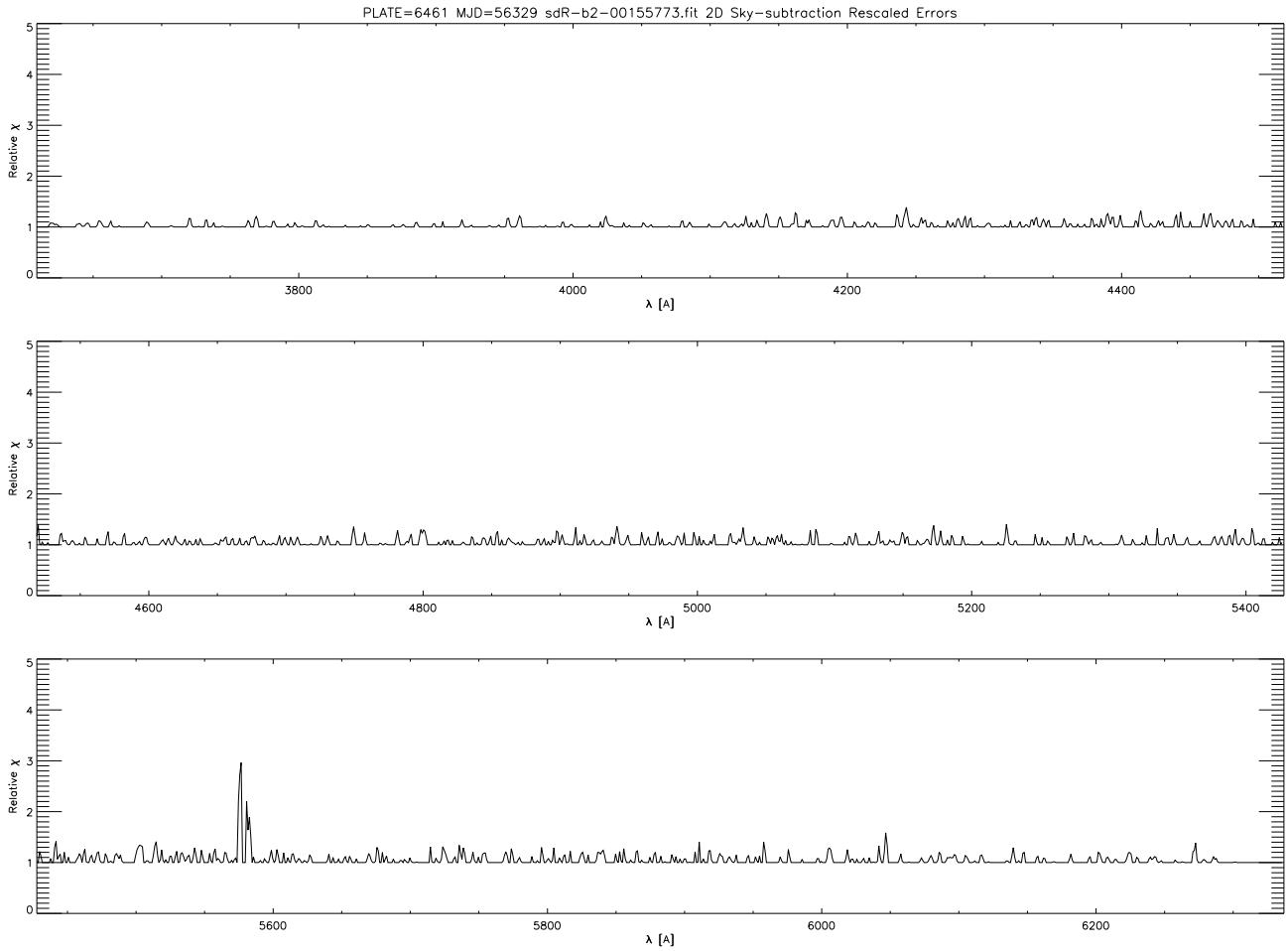


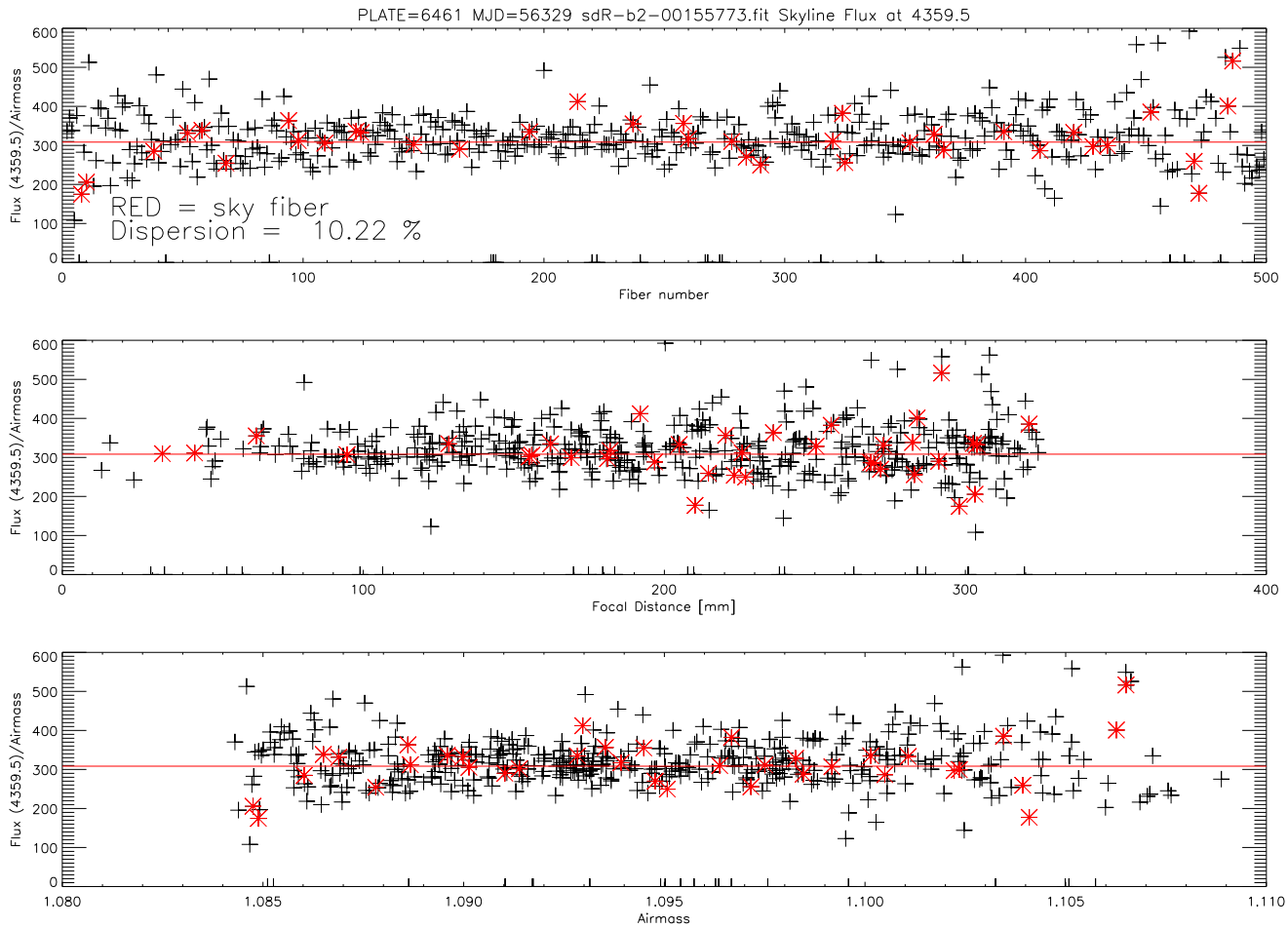

PLATE=6461 MJD=56329 sdR-b2-00155773.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

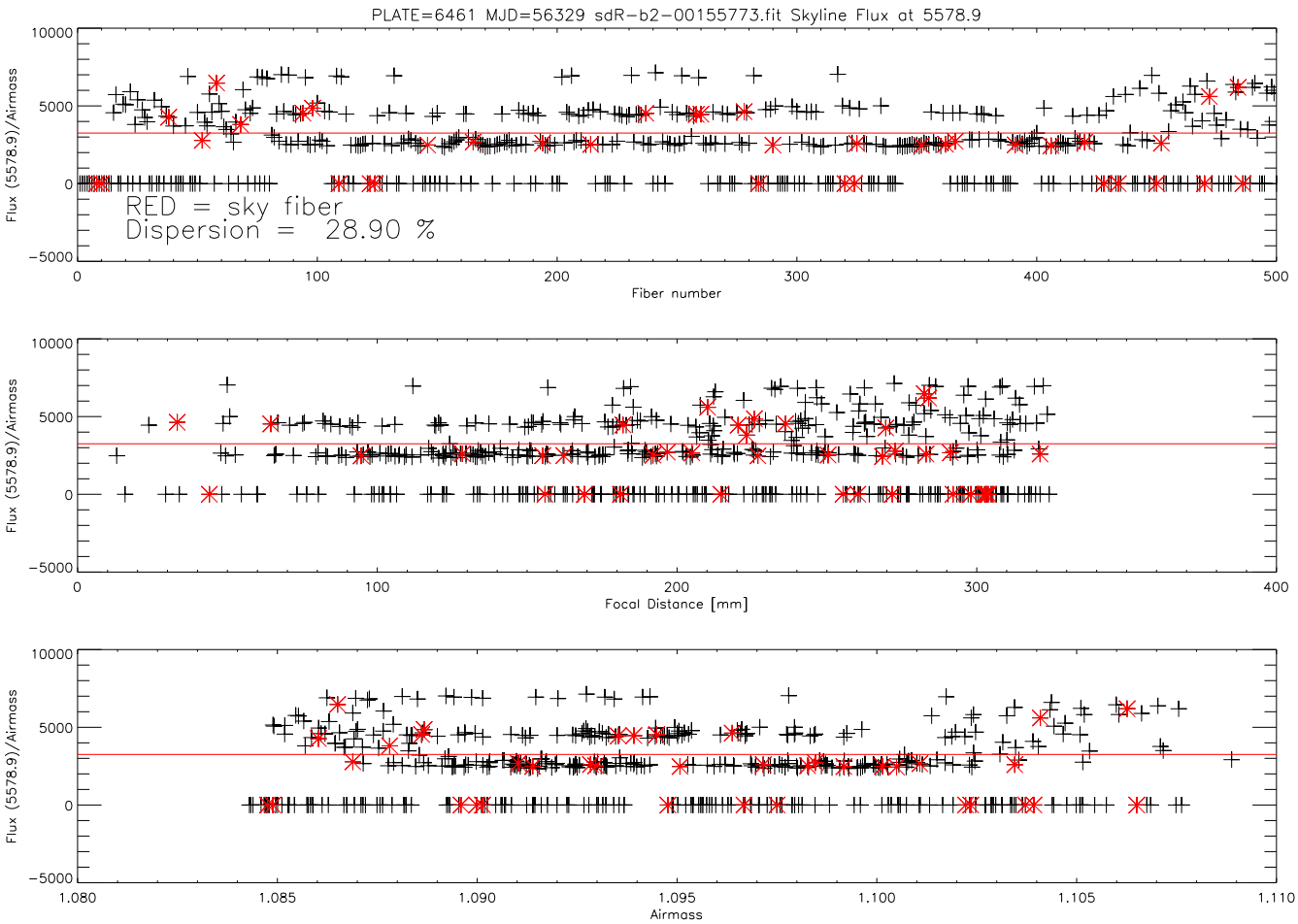

PLATE=6461 MJD=56329 sdR-b2-00155773.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]


PLATE=6461 MJD=56329 sdR-b2-00155773.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]

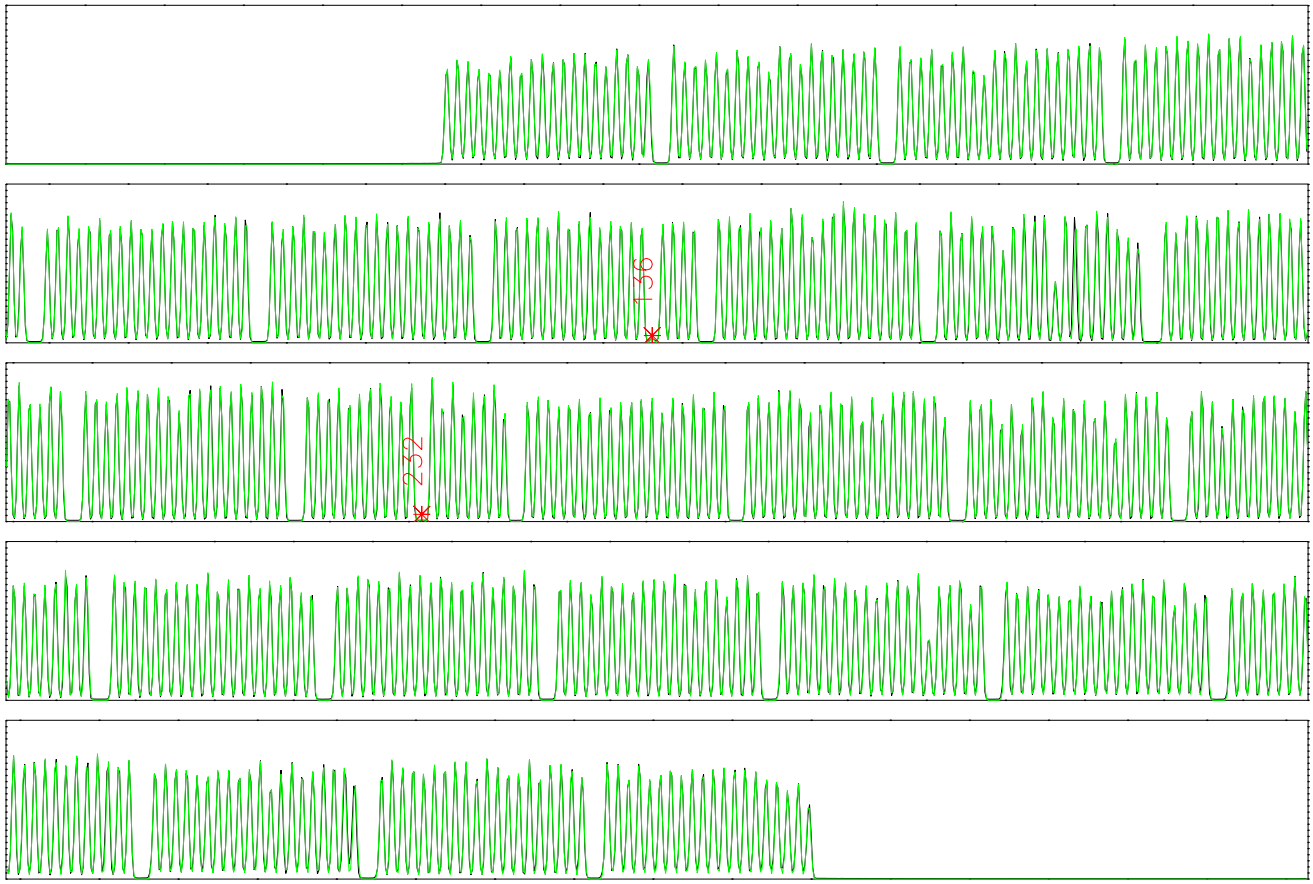
Number of sky fibers = 38

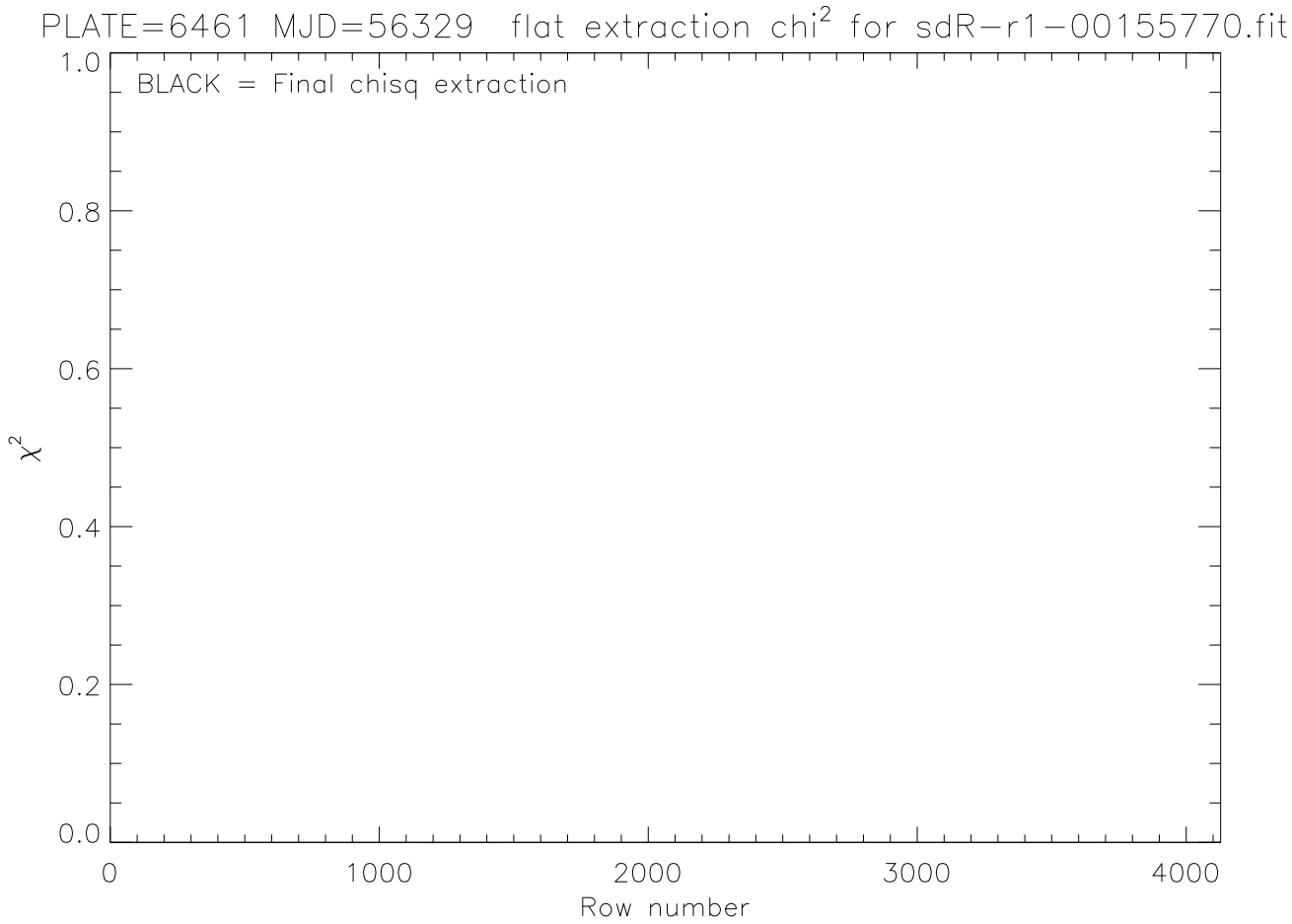


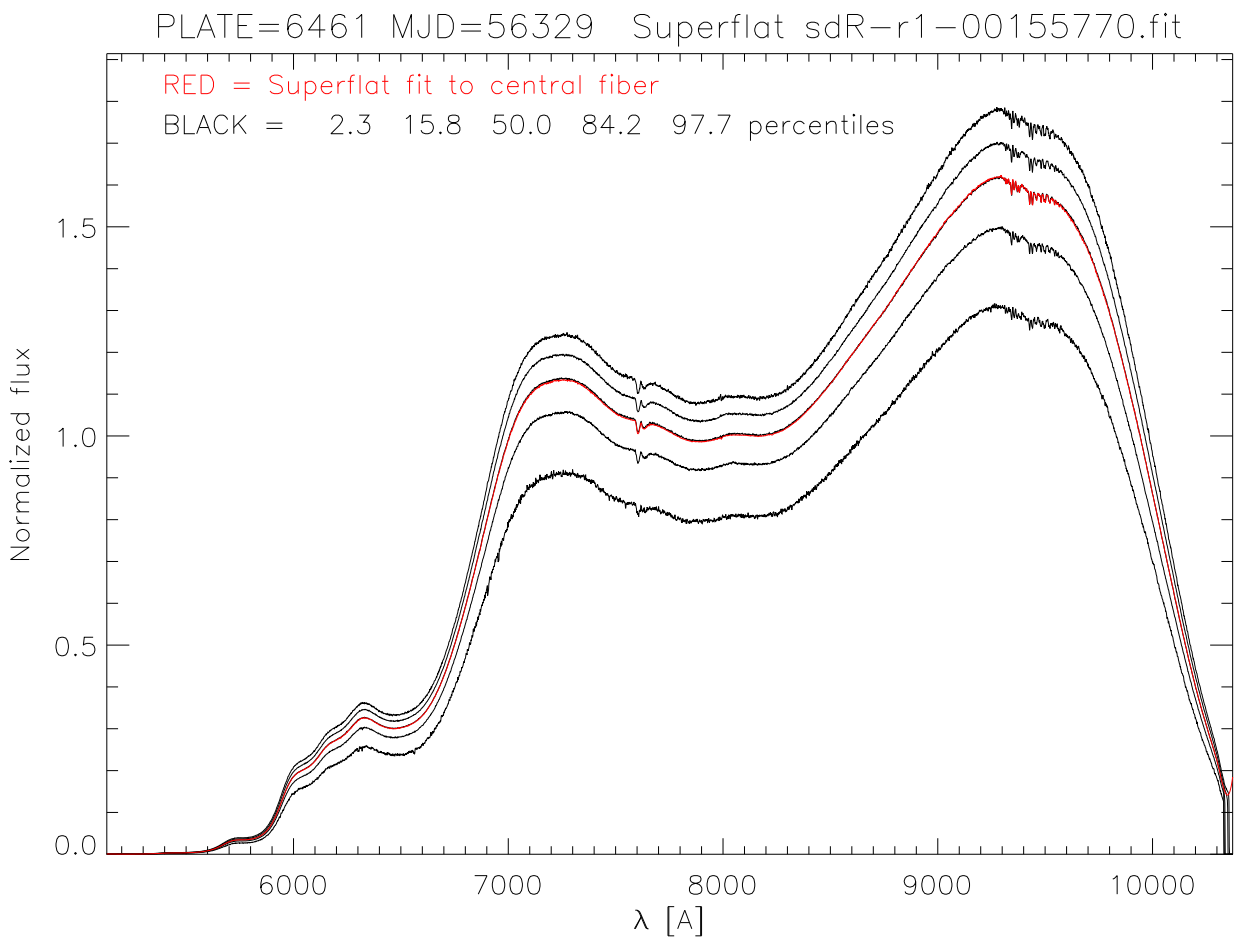

PLATE=6461 MJD=56329 sdR-b2-00155773.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 10.22 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

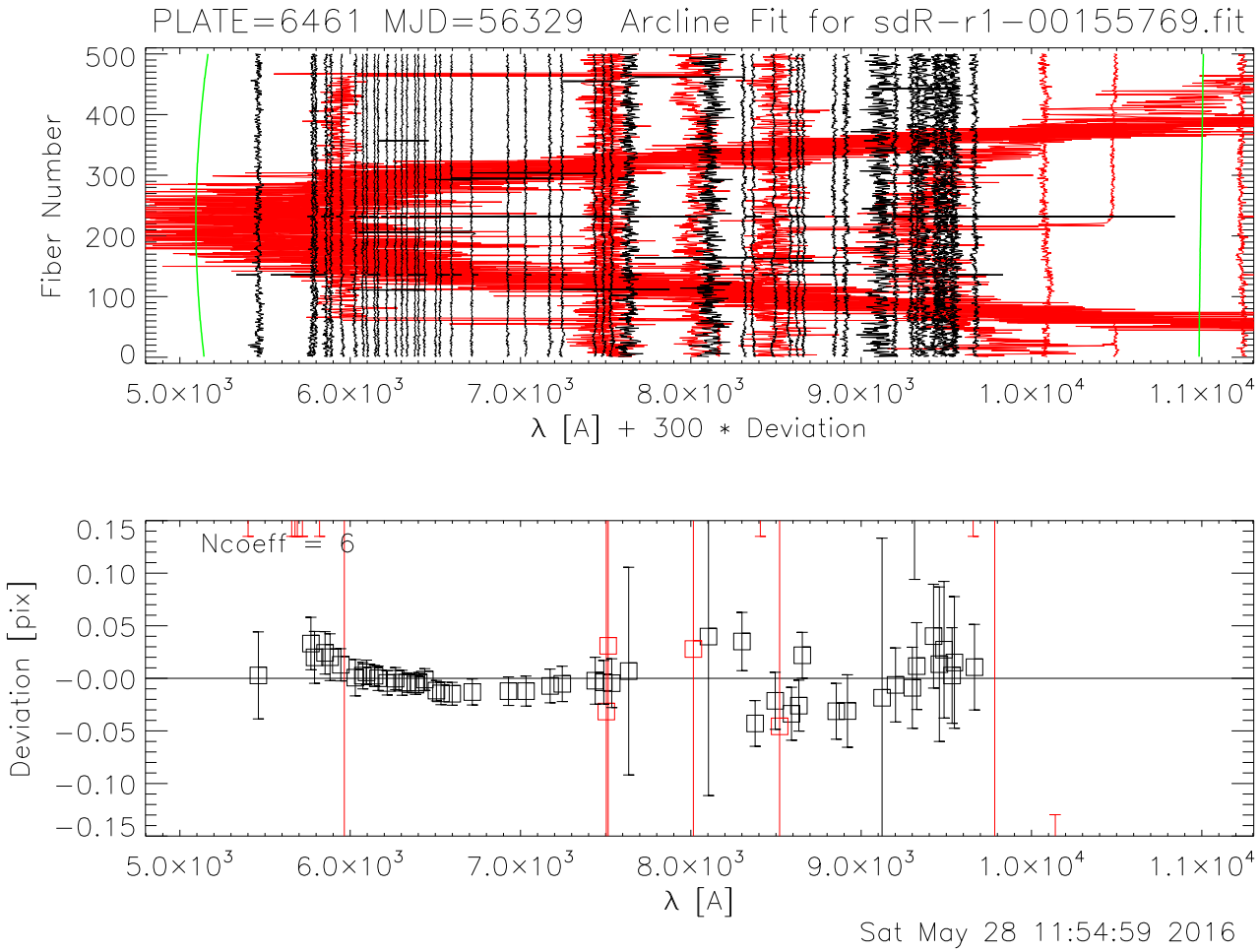

PLATE=6461 MJD=56329 sdR-b2-00155773.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 28.90 %
Fiber number
Focal Distance [mm]
Airmass

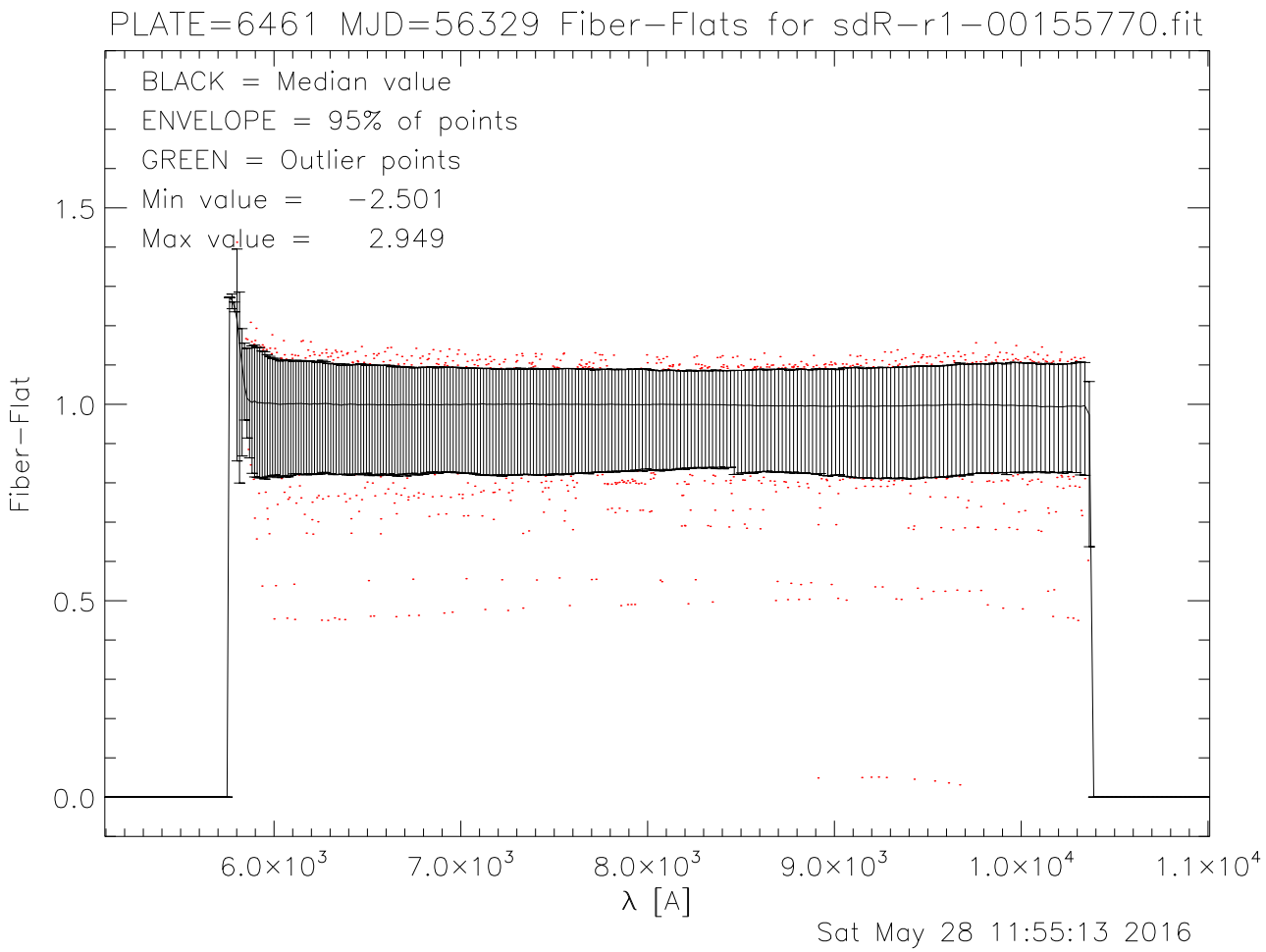
PLATE=6461 MJD=56329 Traces sdR-r1-00155770.fit

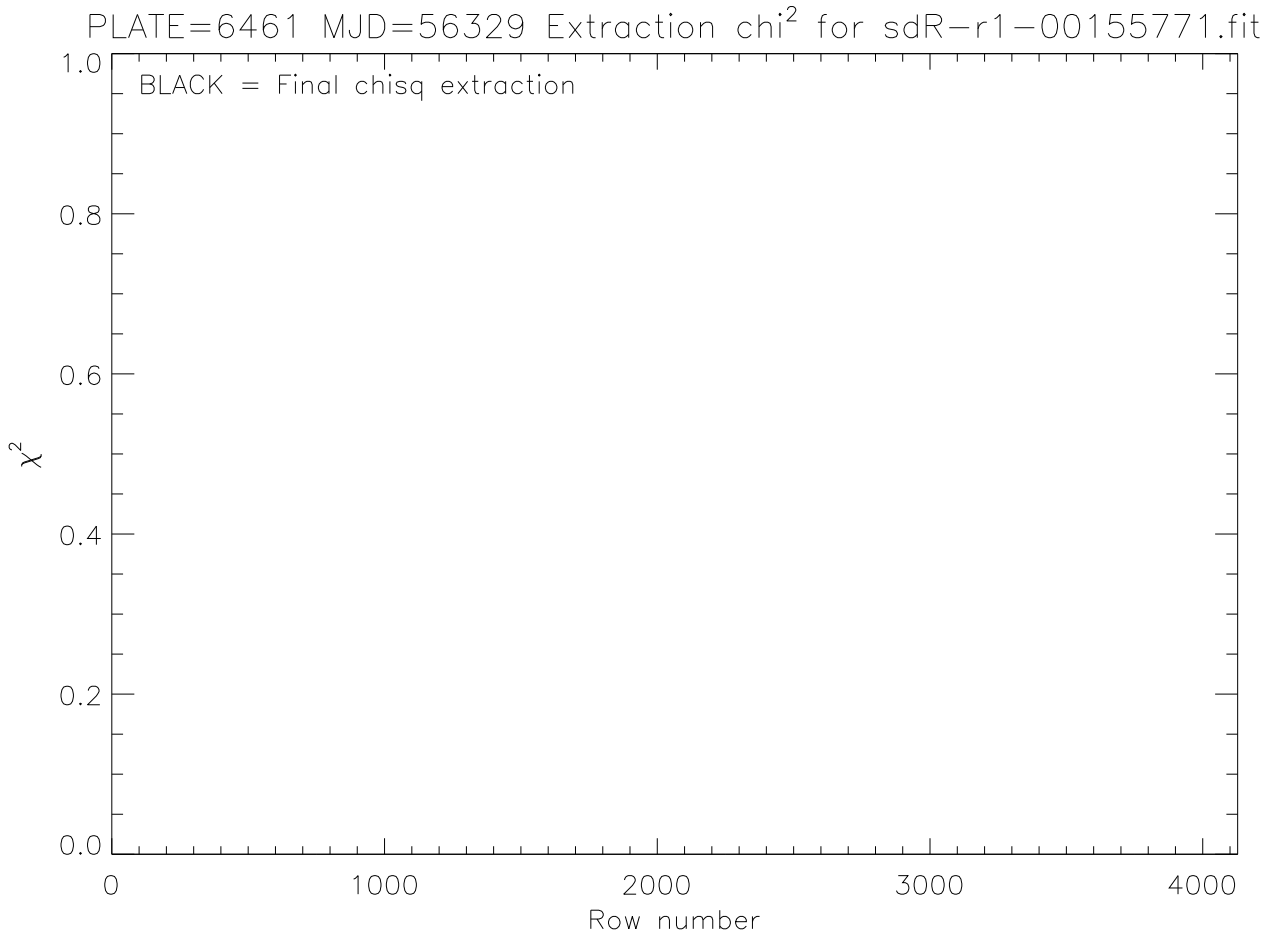


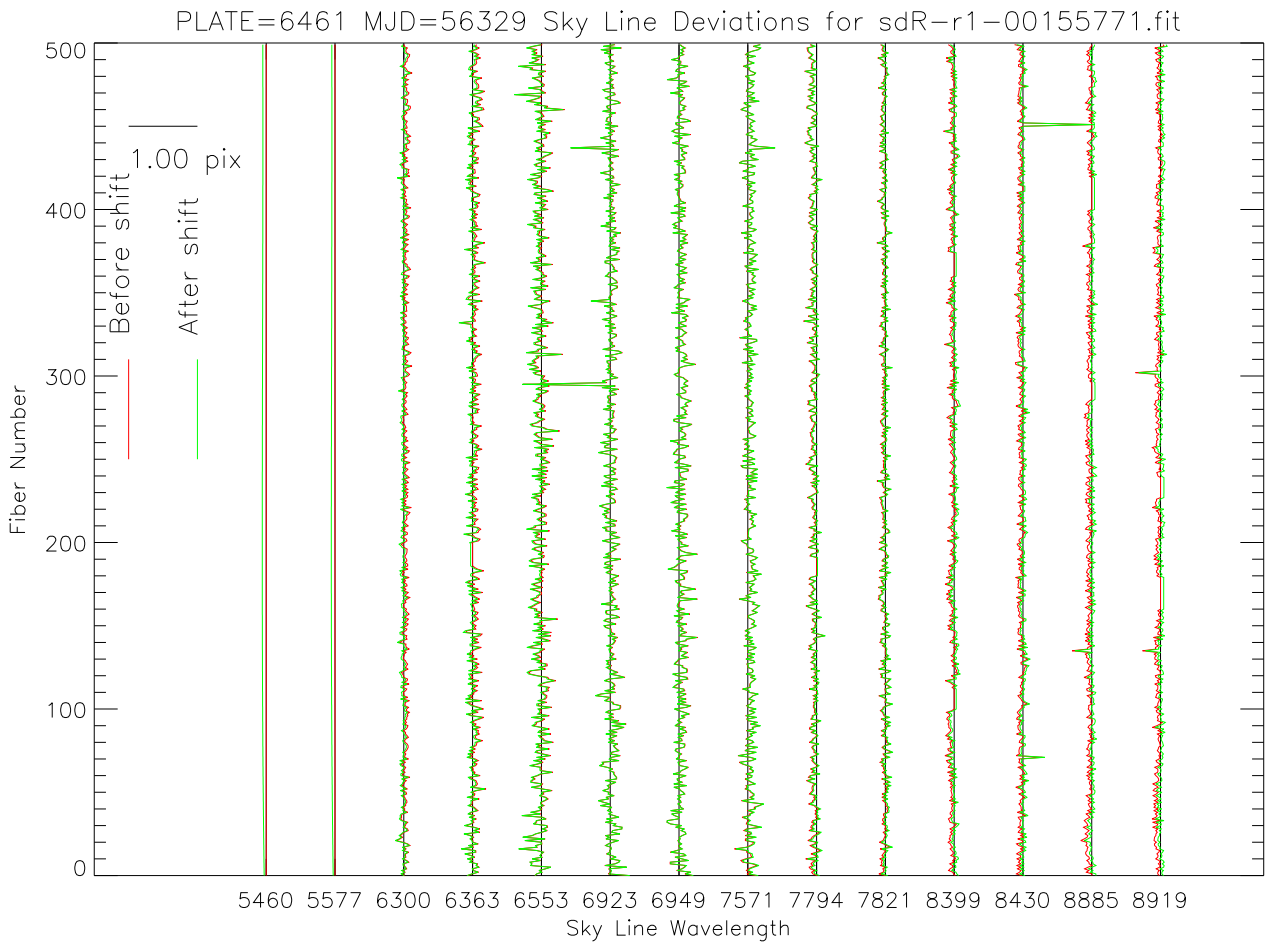

PLATE=6461 MJD=56329 flat extraction chi^2 for sdR−r1−00155770.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number

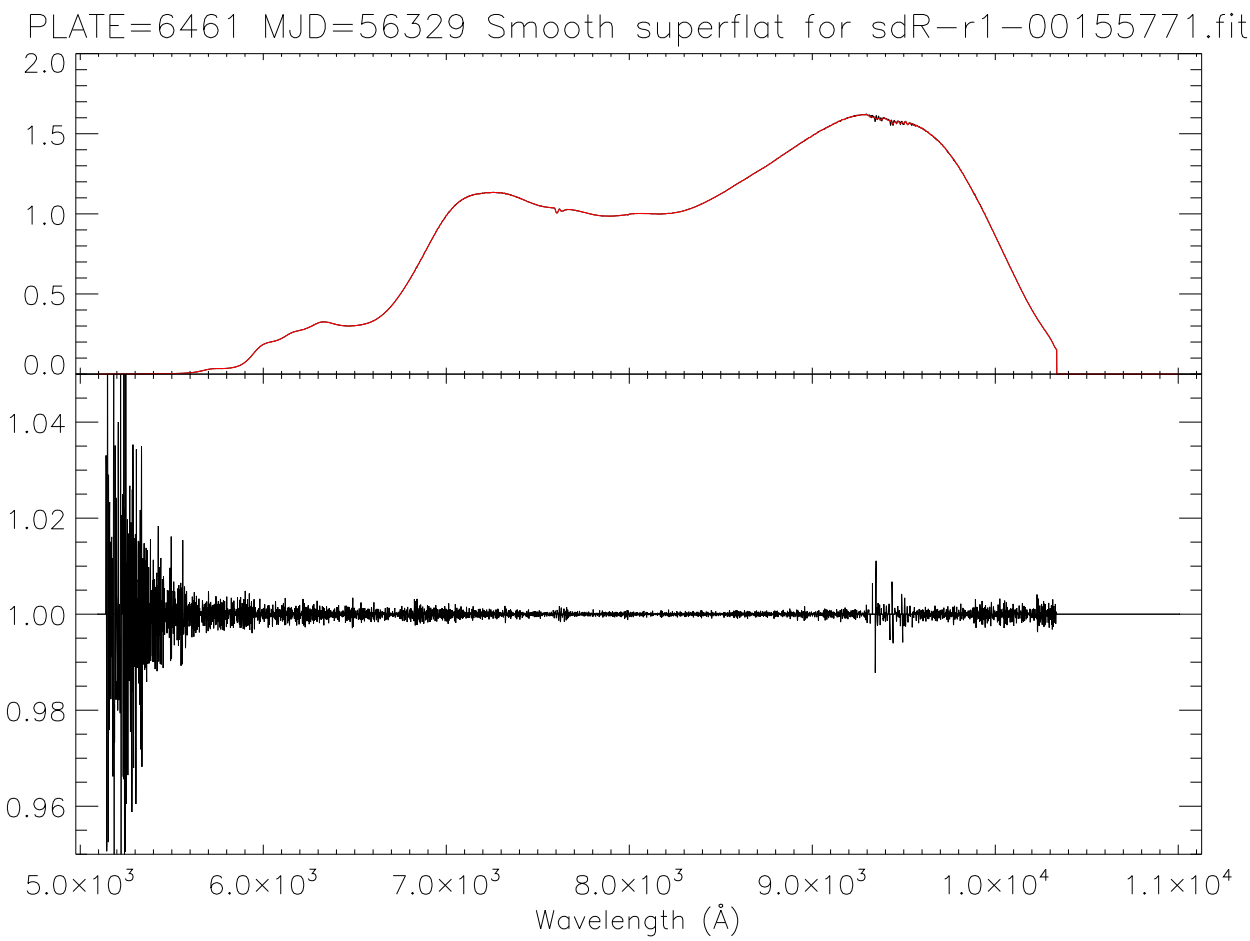

PLATE=6461 MJD=56329 Superflat sdR-r1-00155770.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
0.0
0.5
1.0
1.5
6000
7000
8000
9000
10000
λ [A]

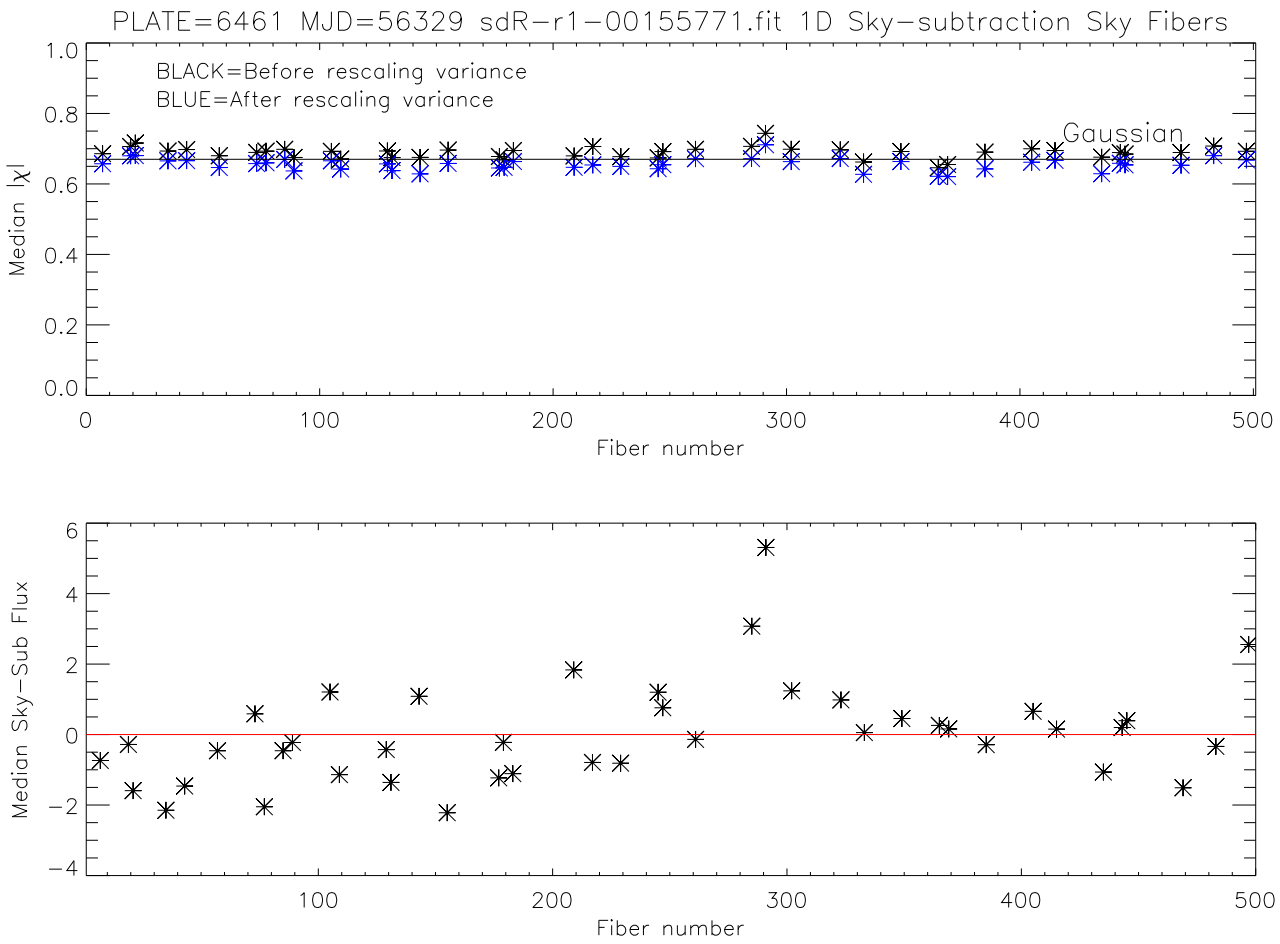

PLATE=6461 MJD=56329 Arcline Fit for sdR-r1-00155769.fit
Fiber Number
500
400
300
200
100
0
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A] + 300 * Deviation
Ncoeff = 6
Deviation [pix]
0.15
0.10
0.05
−0.00
−0.05
−0.10
−0.15
λ [A]
Sat May 28 11:54:59 2016

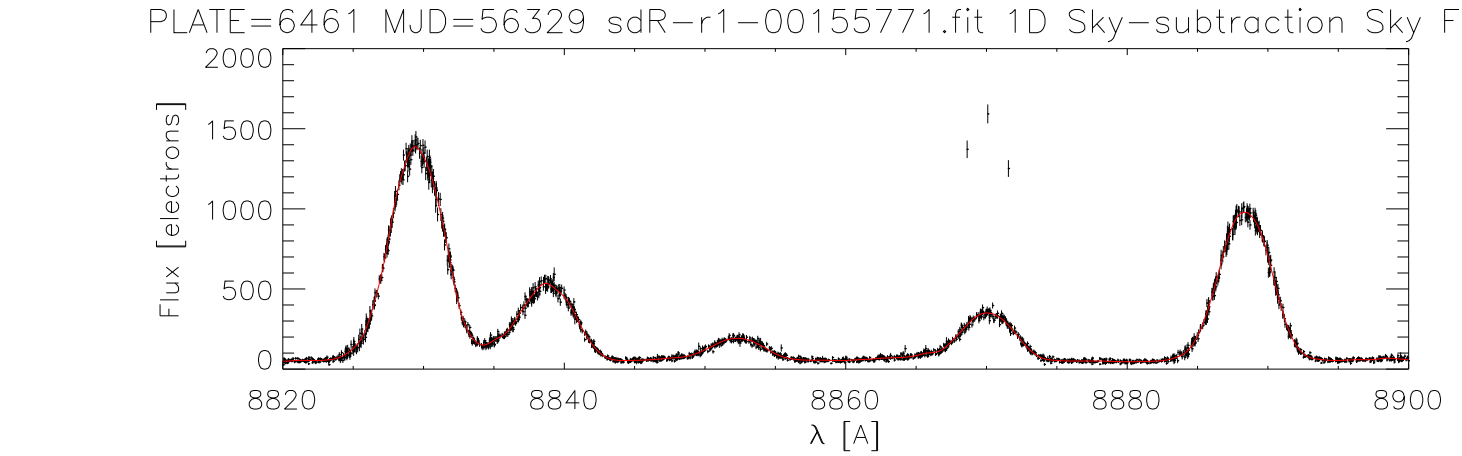

PLATE=6461 MJD=56329 Fiber−Flats for sdR−r1−00155770.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −2.501
Max value = 2.949
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Sat May 28 11:55:13 2016

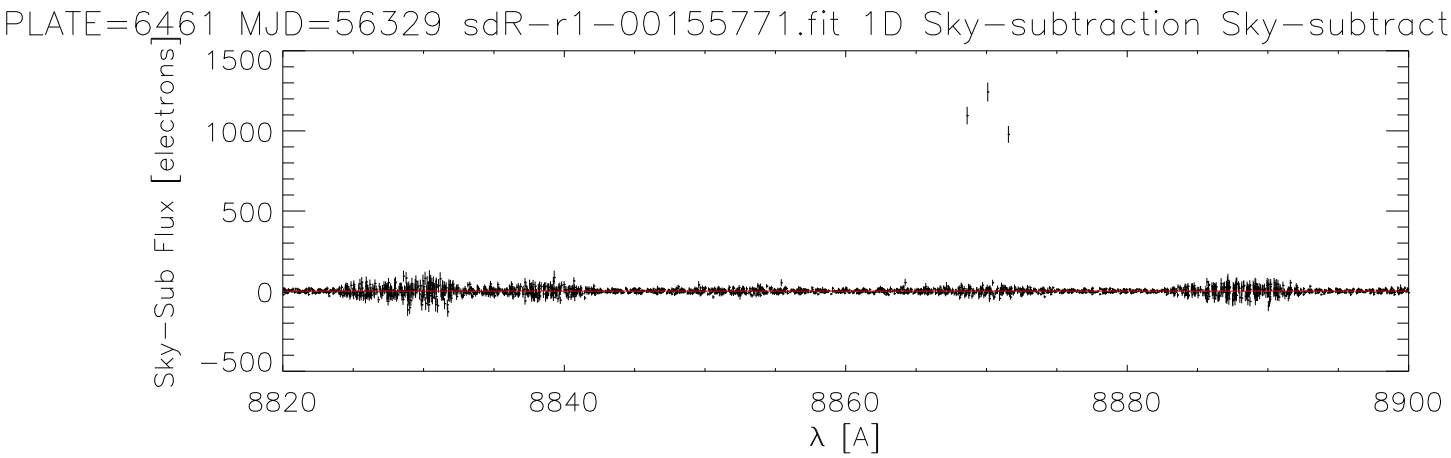

PLATE=6461 MJD=56329 Extraction chi^2 for sdR−r1−00155771.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=6461 MJD=56329 Sky Line Deviations for sdR-r1-00155771.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

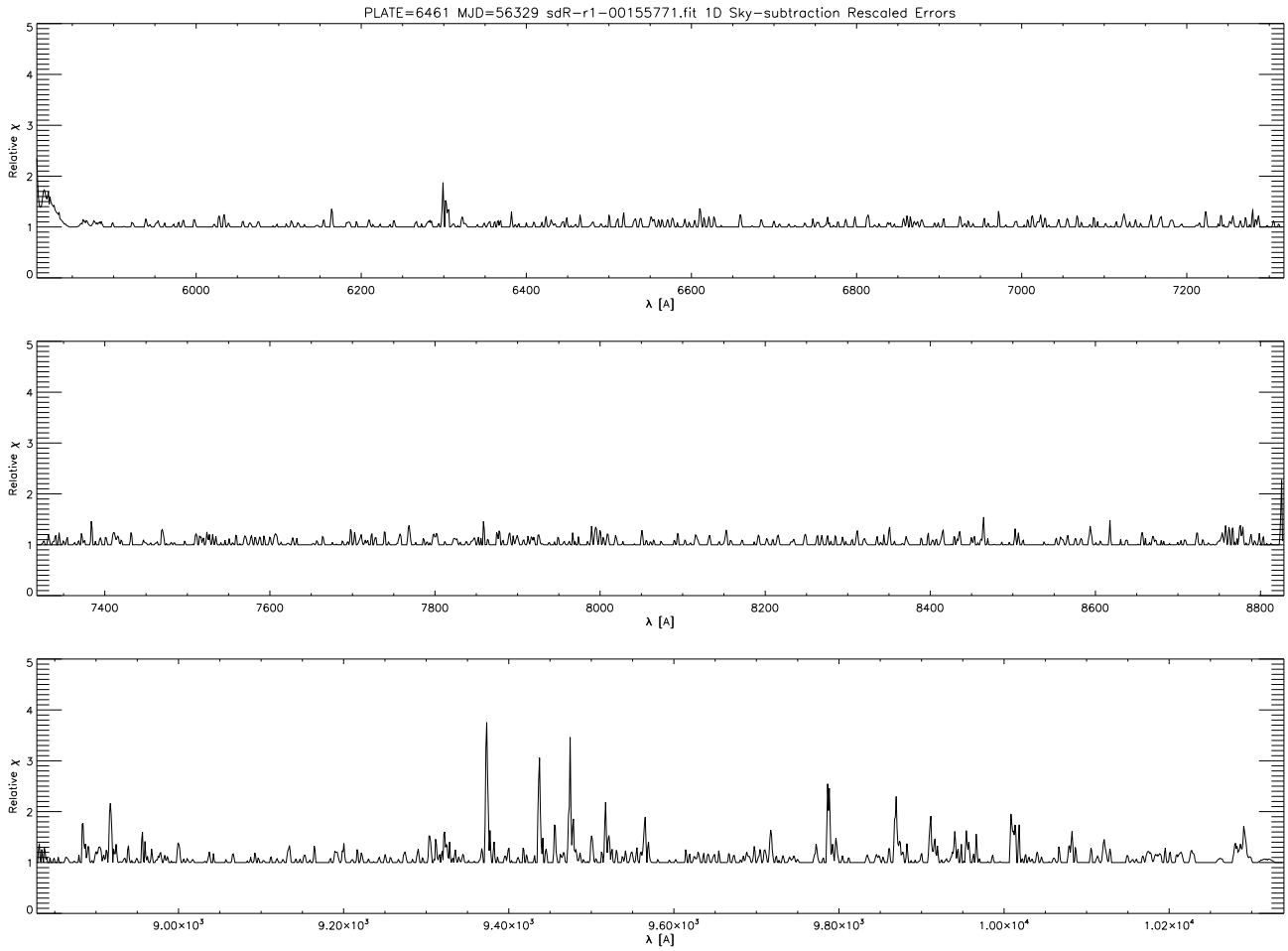

PLATE=6461 MJD=56329 Smooth superflat for sdR-r1-00155771.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

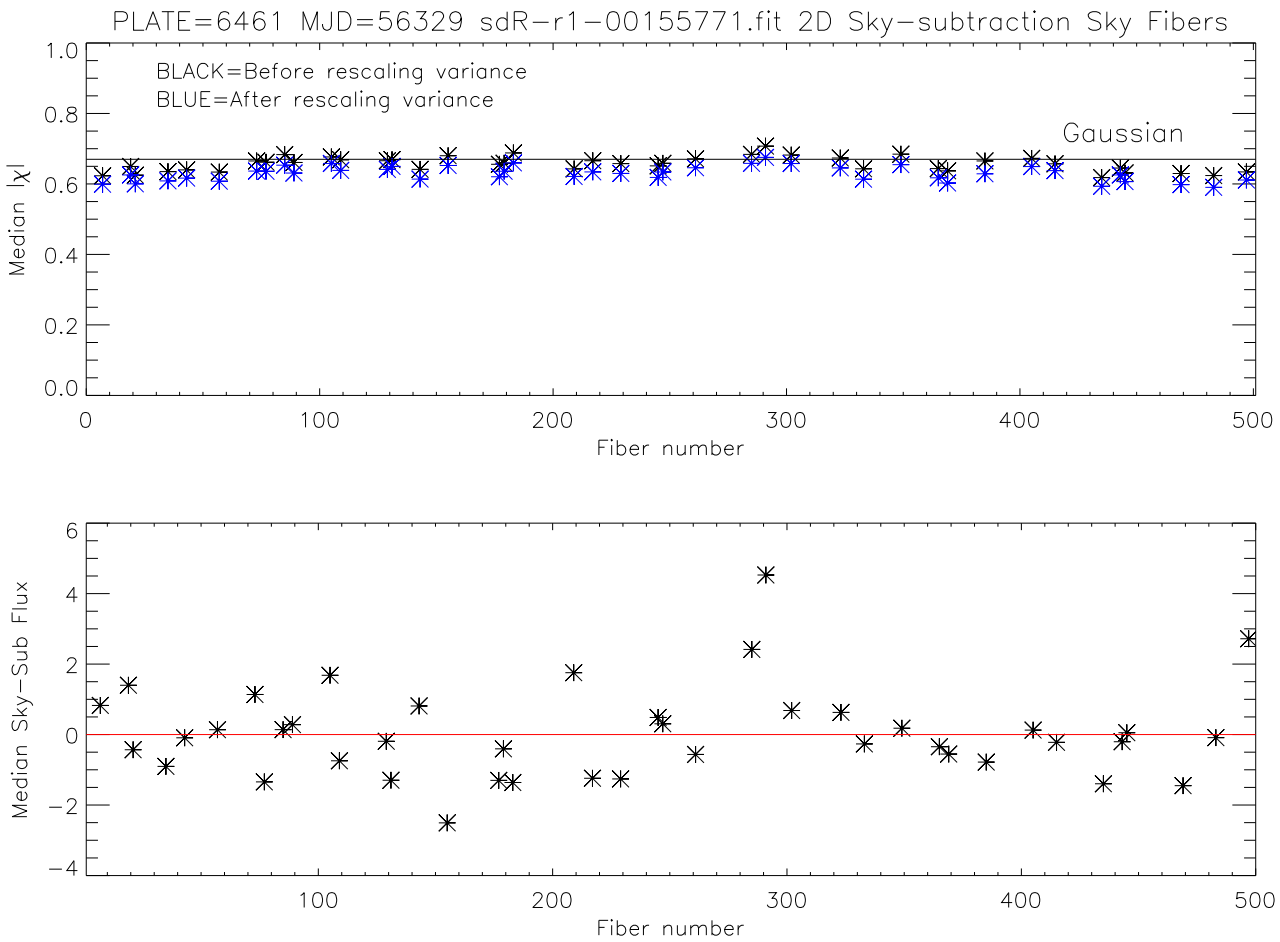

PLATE=6461 MJD=56329 sdR-r1-00155771.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

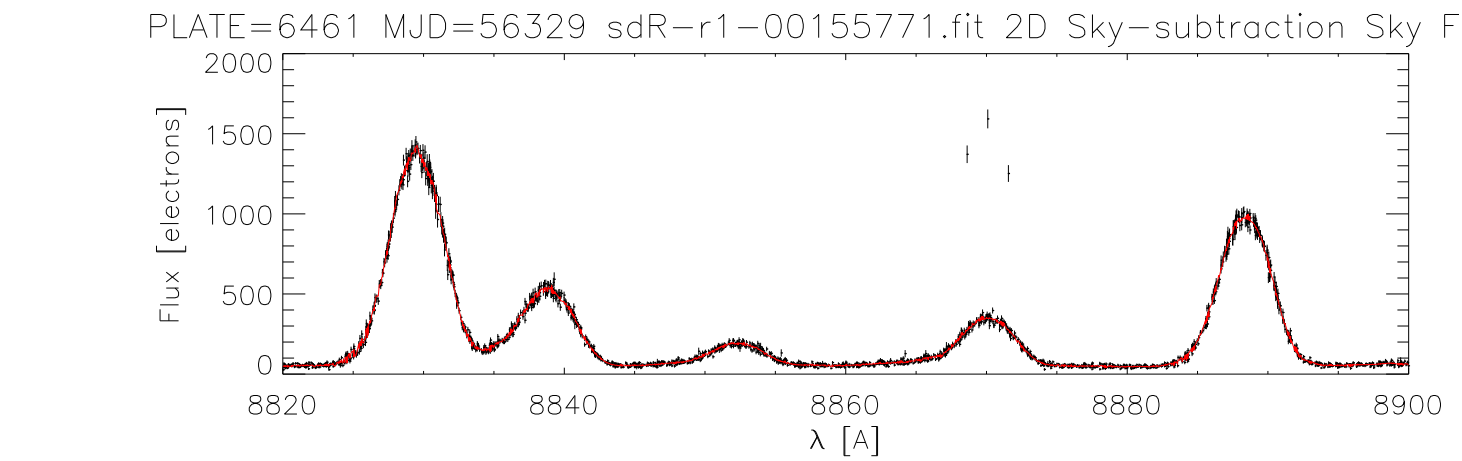

PLATE=6461 MJD=56329 sdR-r1-00155771.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

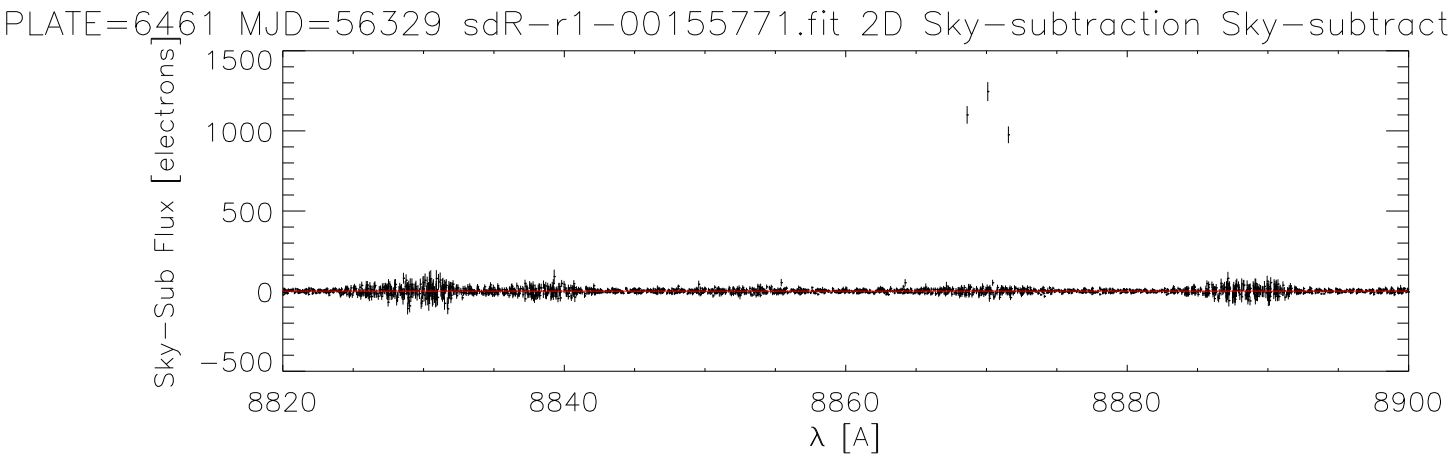

PLATE=6461 MJD=56329 sdR-r1-00155771.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 42

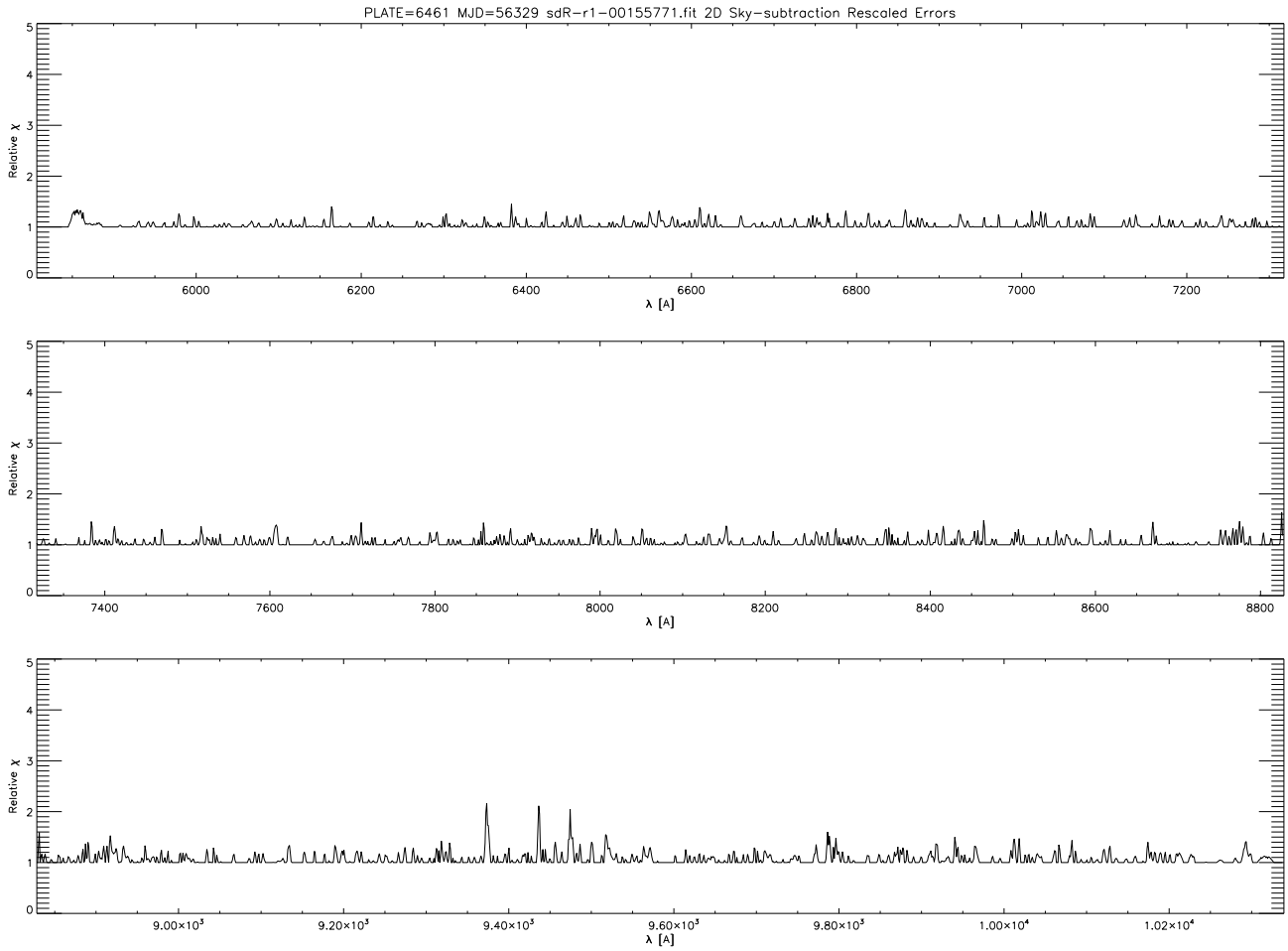


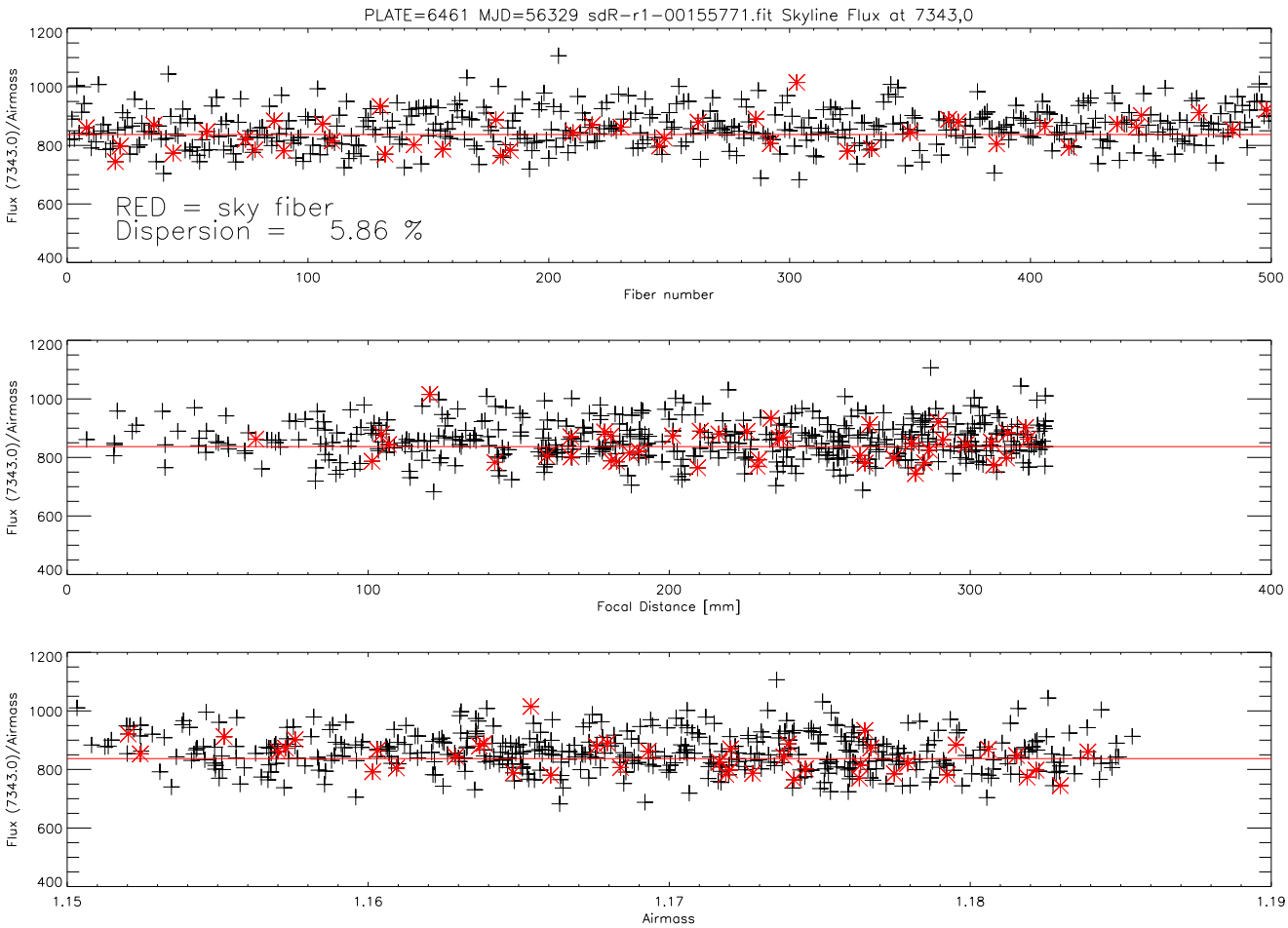

PLATE=6461 MJD=56329 sdR-r1-00155771.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

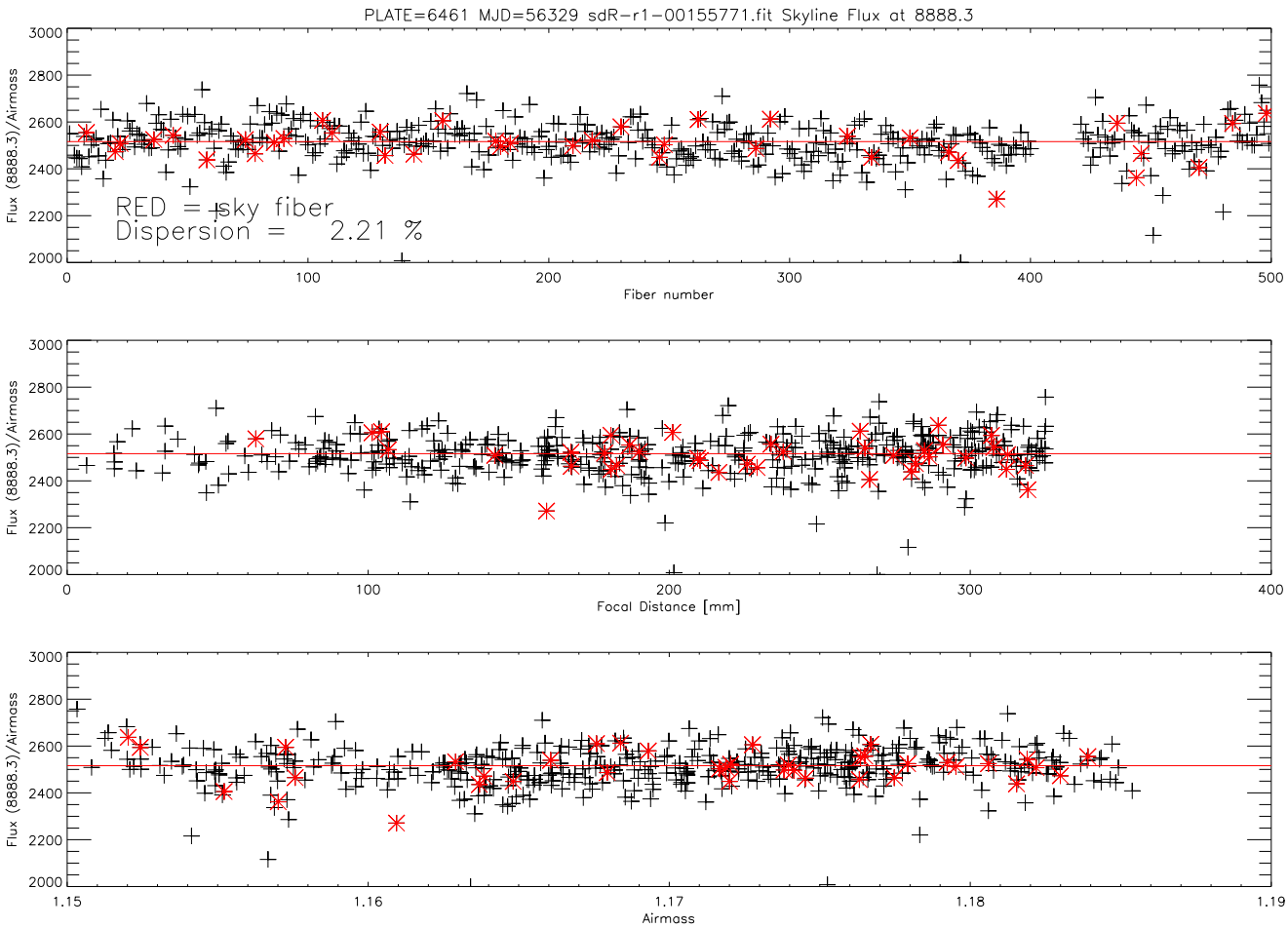

PLATE=6461 MJD=56329 sdR-r1-00155771.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

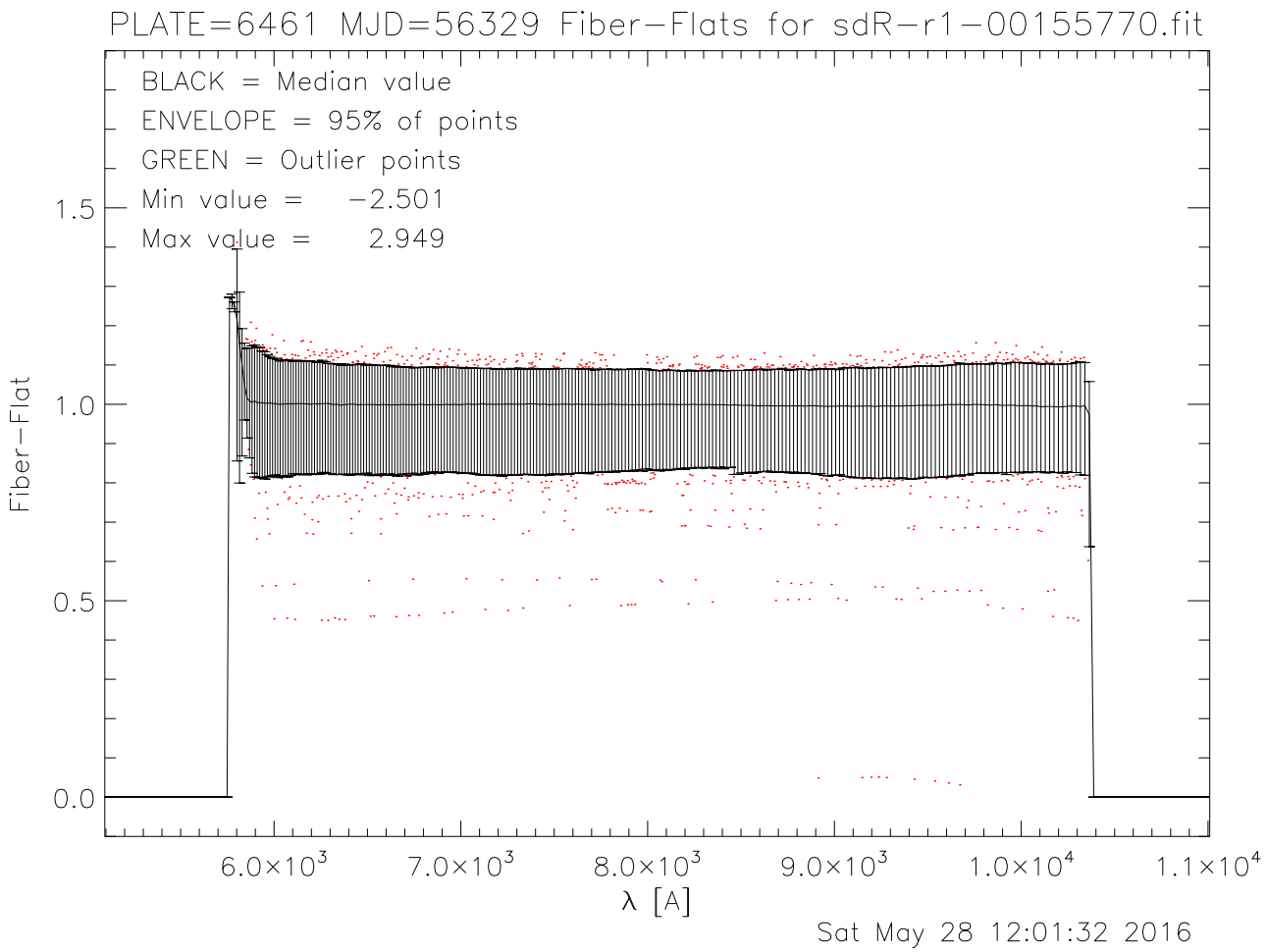

PLATE=6461 MJD=56329 sdR-r1-00155771.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

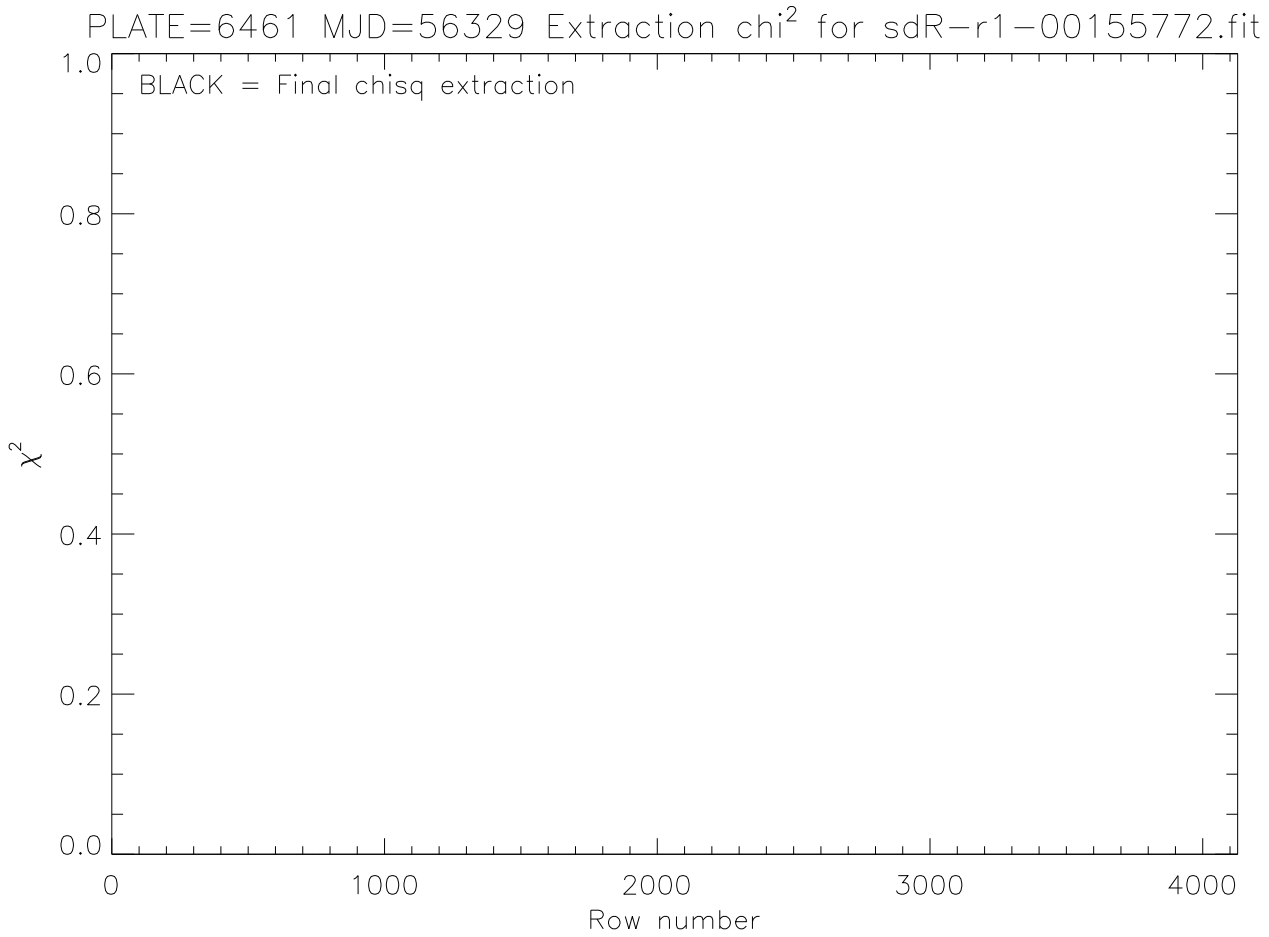
Number of sky fibers = 42

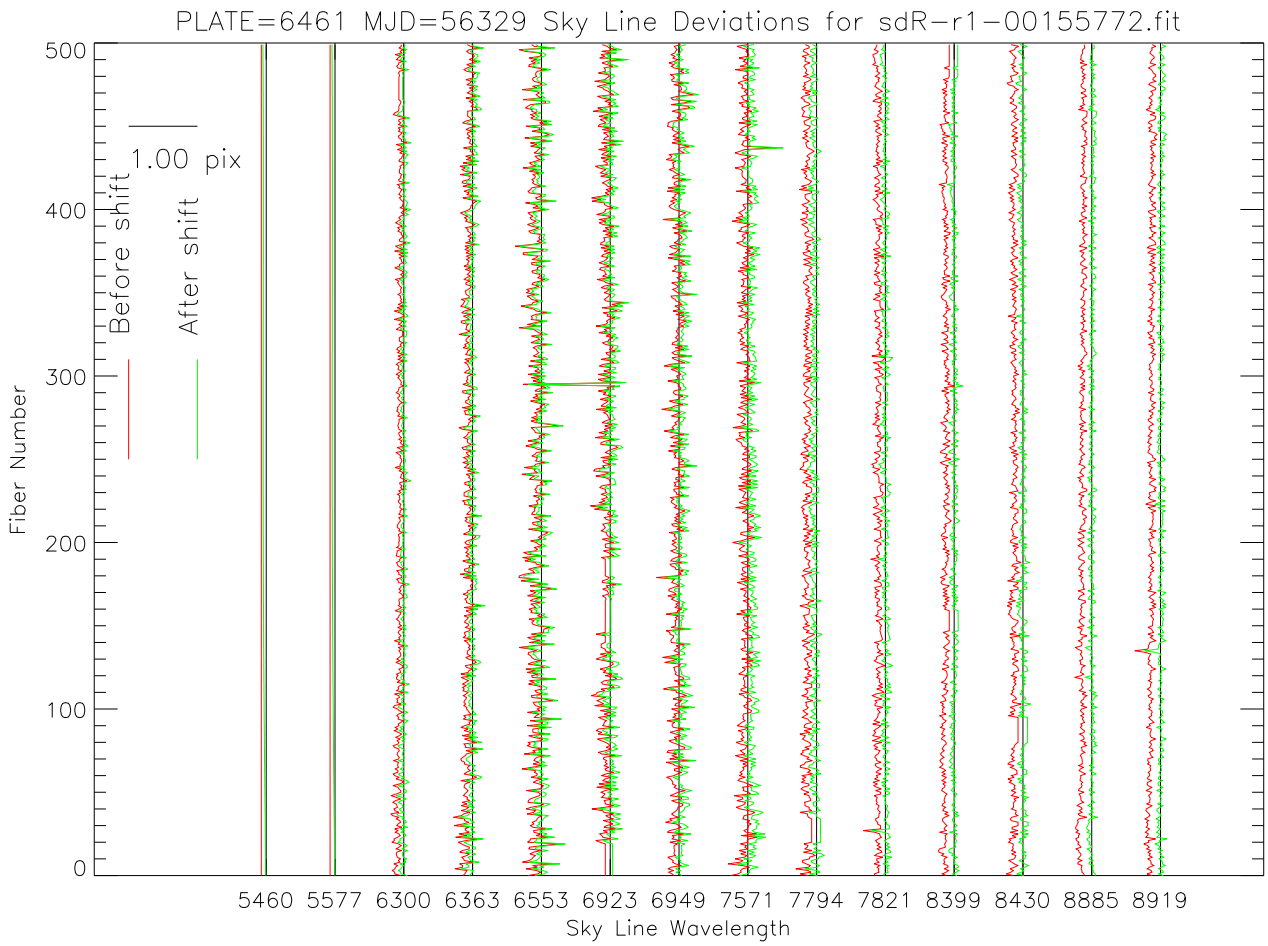


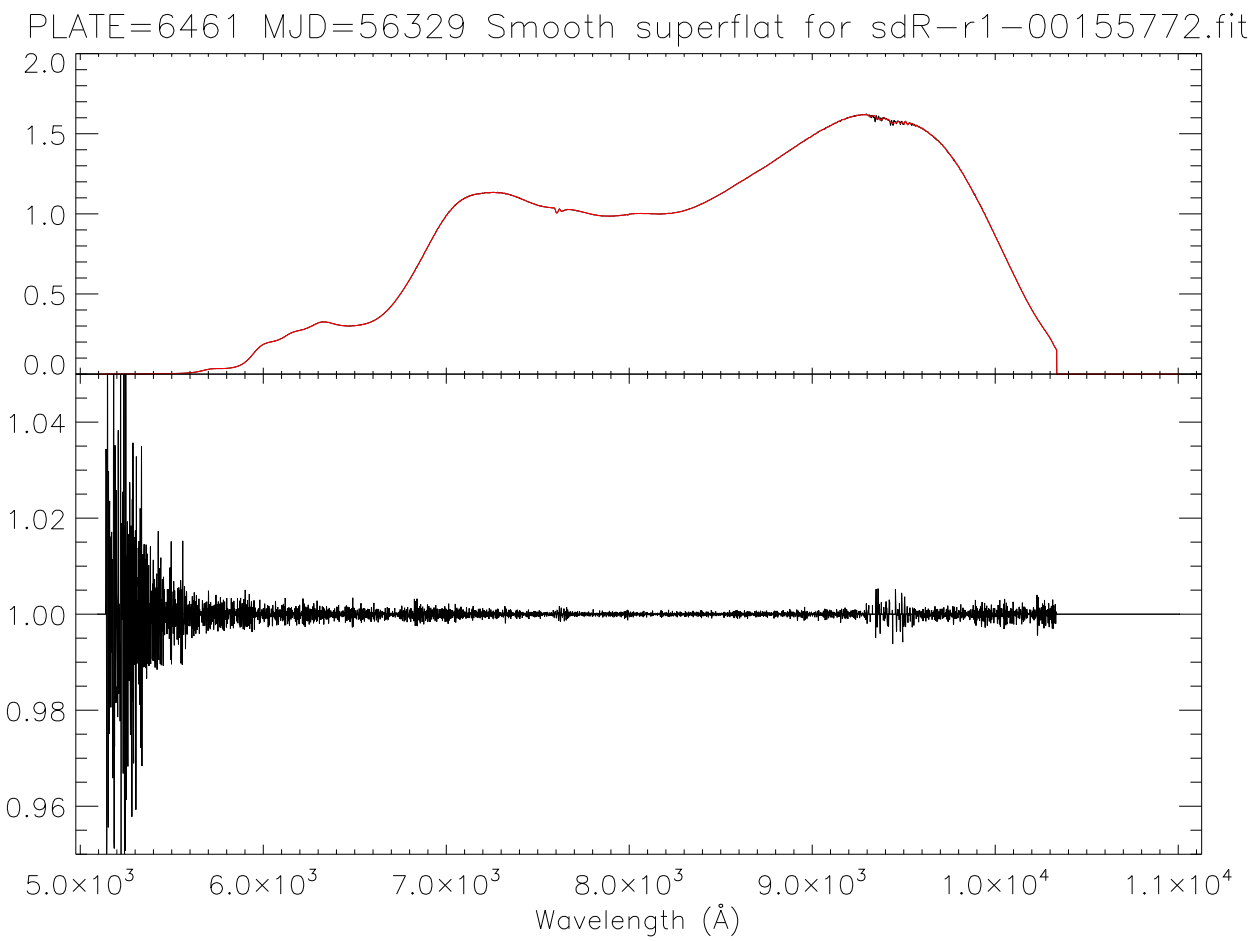

PLATE=6461 MJD=56329 sdR-r1-00155771.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 5.86 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

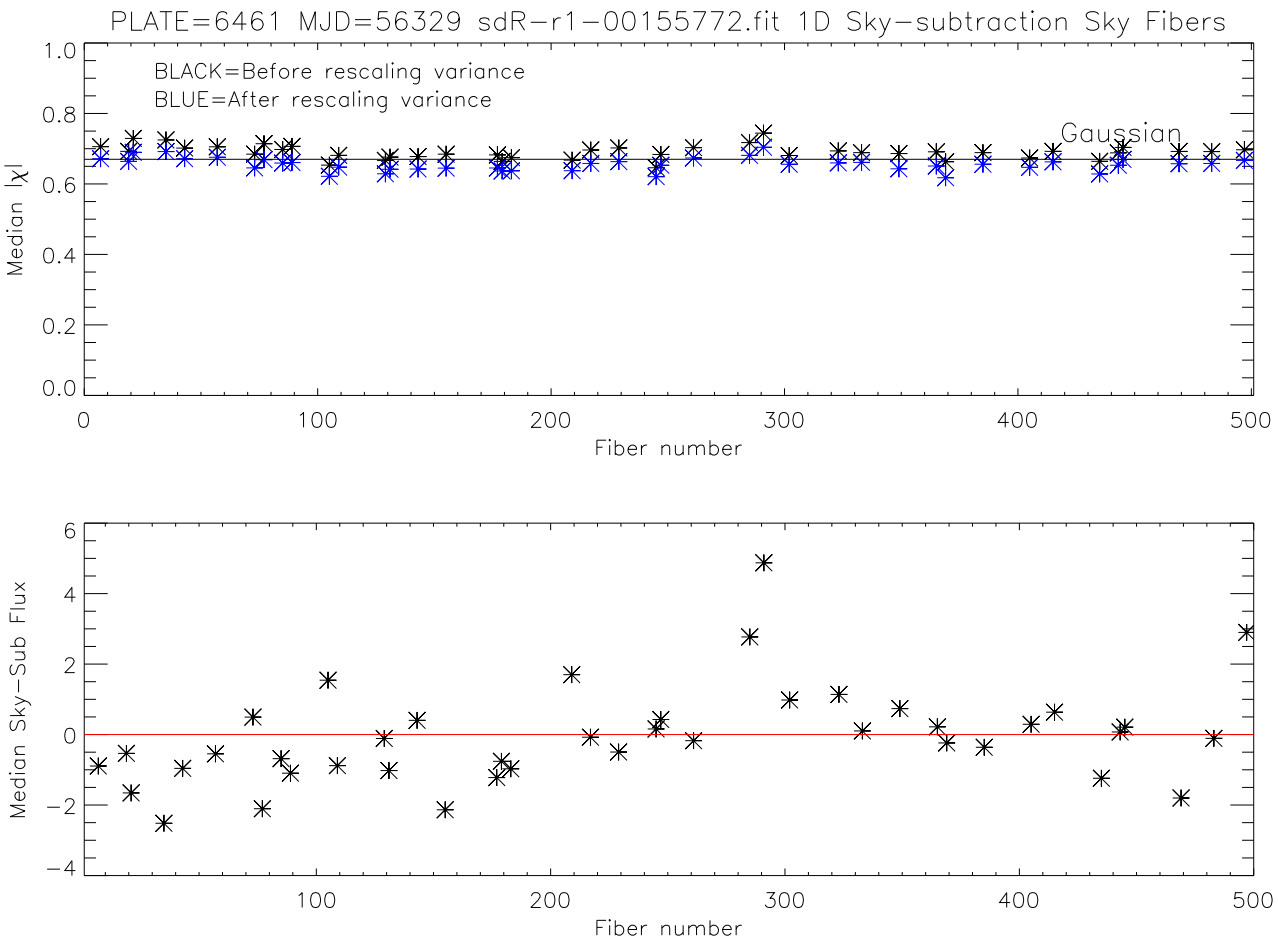

PLATE=6461 MJD=56329 sdR-r1-00155771.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.21 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

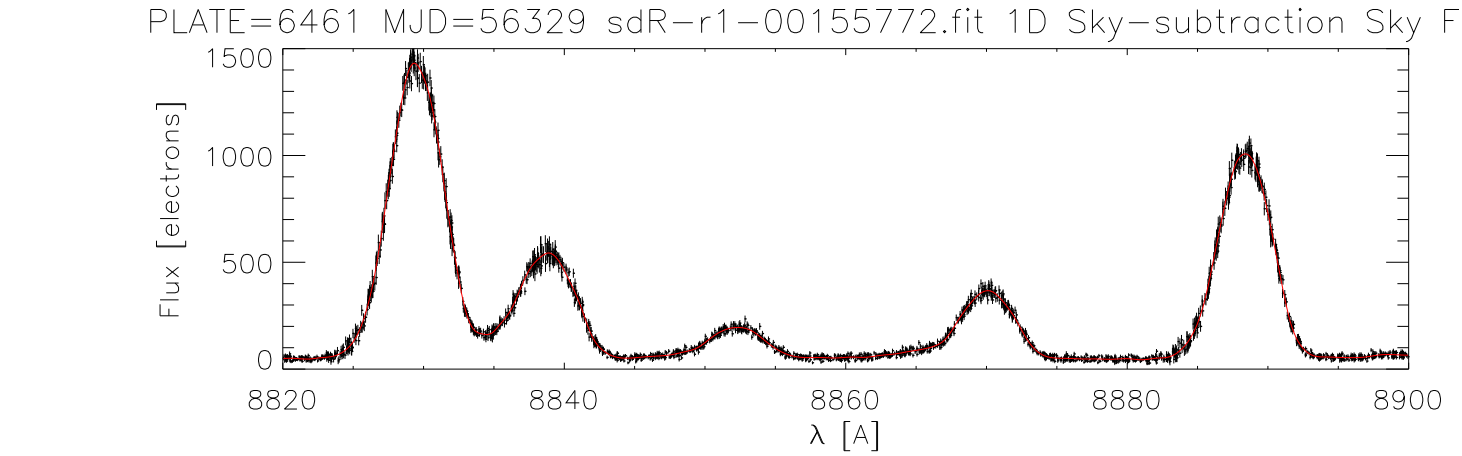

PLATE=6461 MJD=56329 Fiber−Flats for sdR−r1−00155770.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −2.501
Max value = 2.949
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Sat May 28 12:01:32 2016

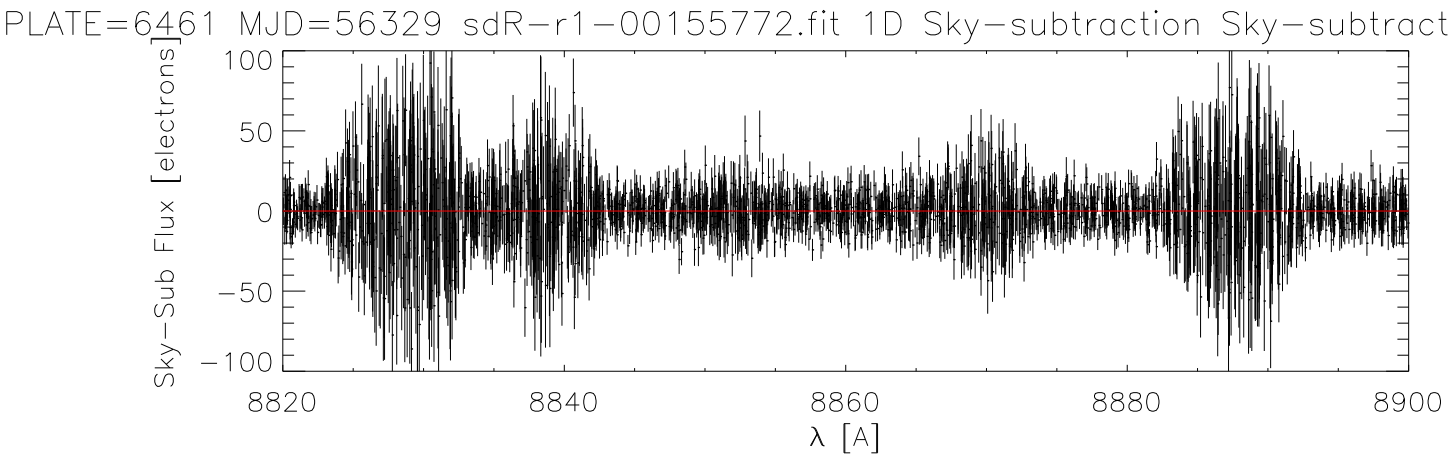

PLATE=6461 MJD=56329 Extraction chi^2 for sdR−r1−00155772.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=6461 MJD=56329 Sky Line Deviations for sdR-r1-00155772.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

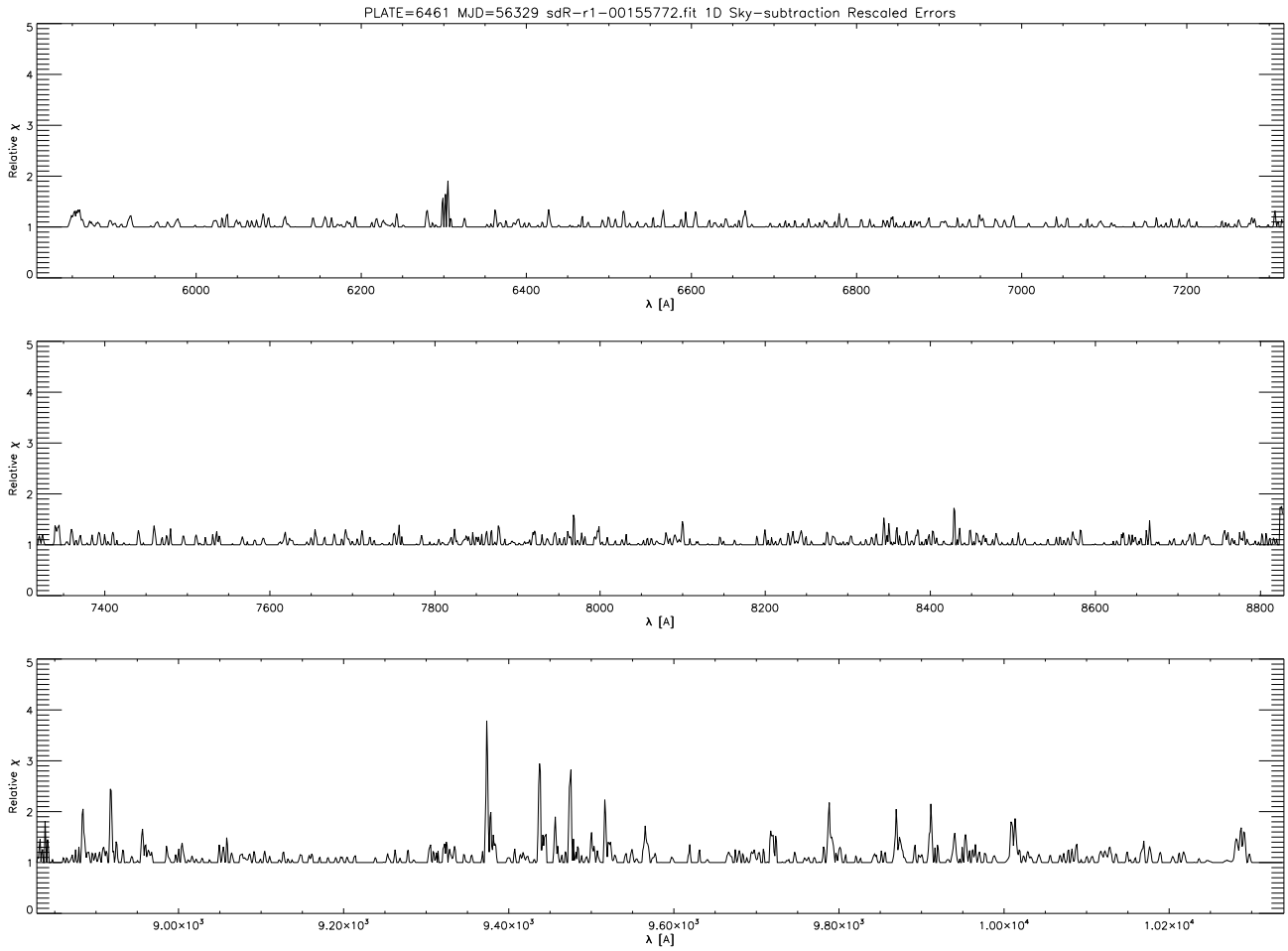

PLATE=6461 MJD=56329 Smooth superflat for sdR-r1-00155772.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

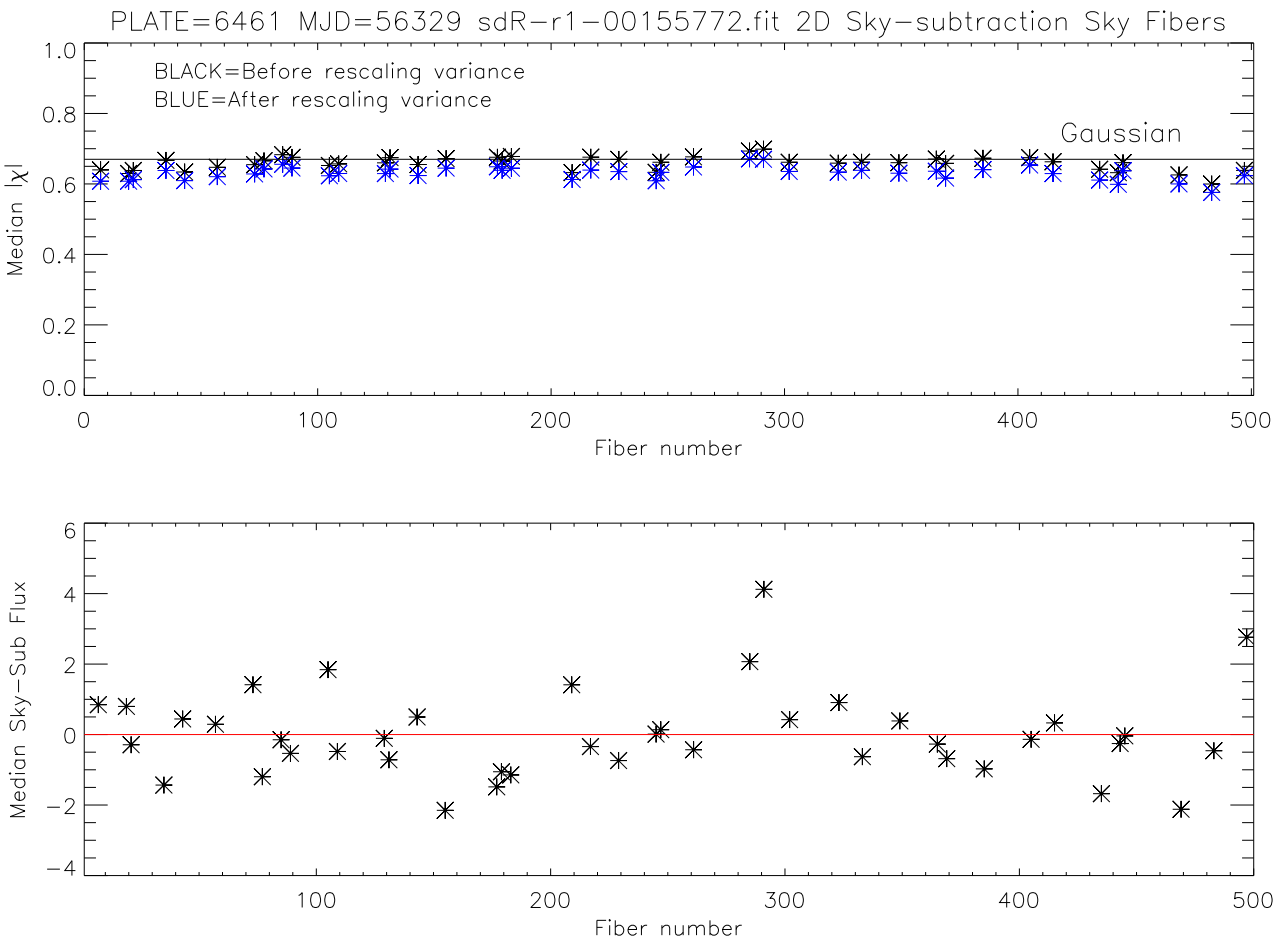

PLATE=6461 MJD=56329 sdR-r1-00155772.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

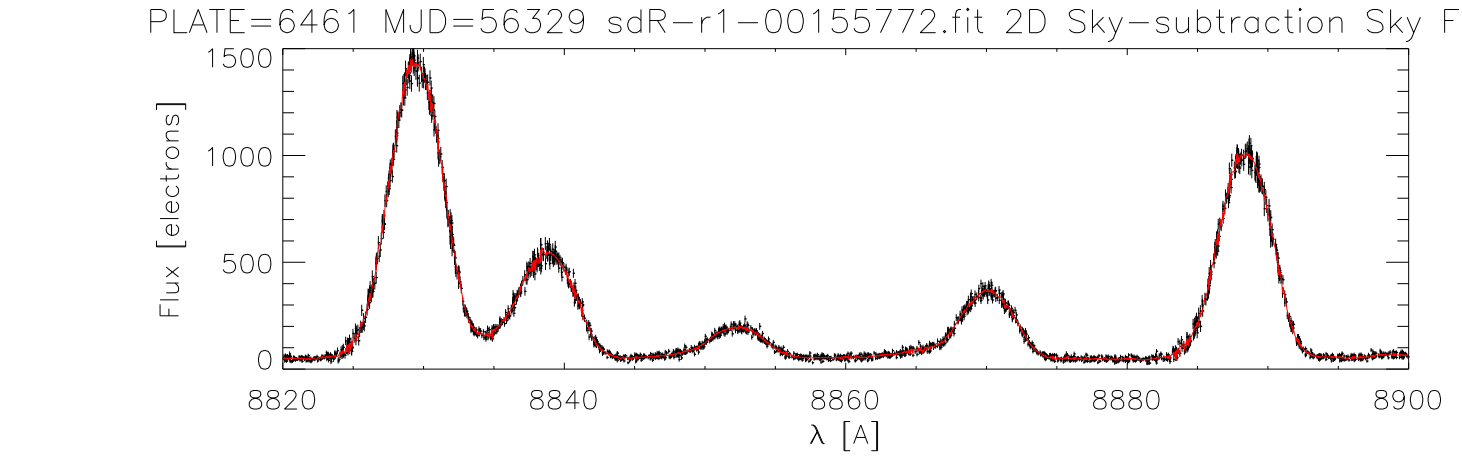

PLATE=6461 MJD=56329 sdR-r1-00155772.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

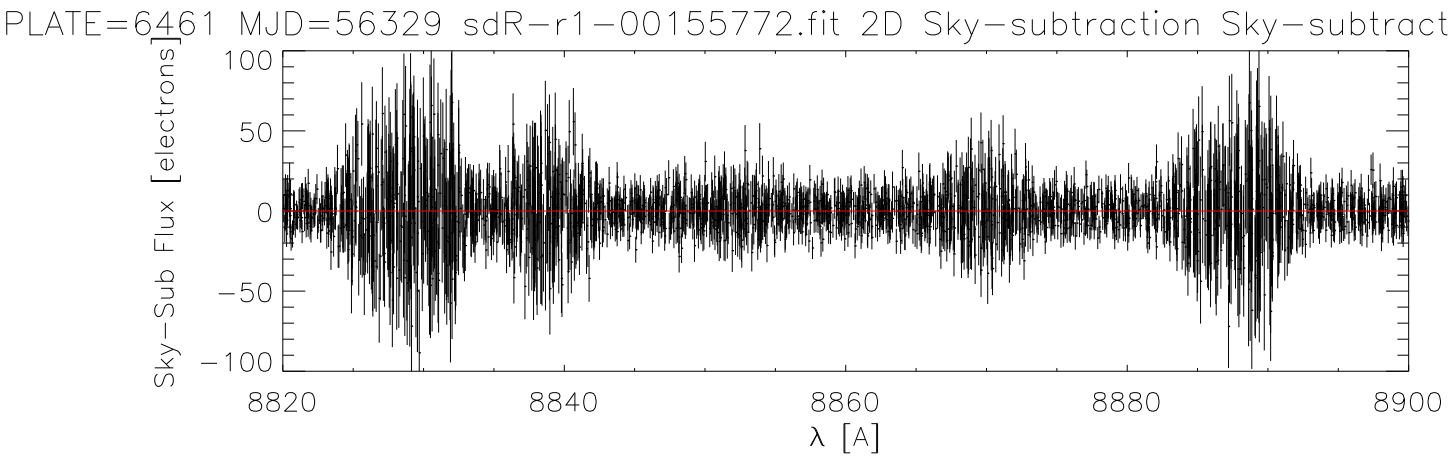

PLATE=6461 MJD=56329 sdR-r1-00155772.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
−50
−100
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 42

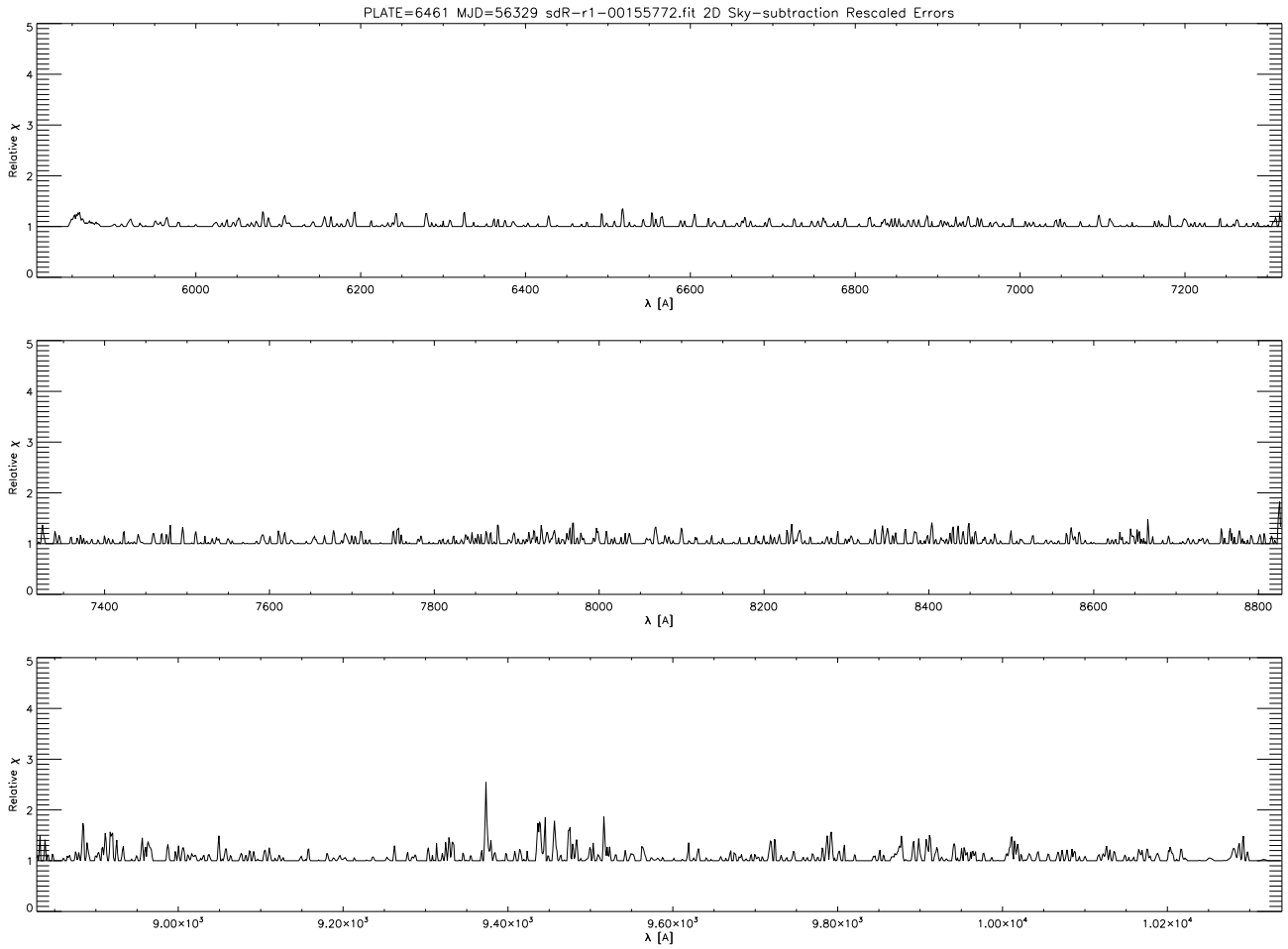


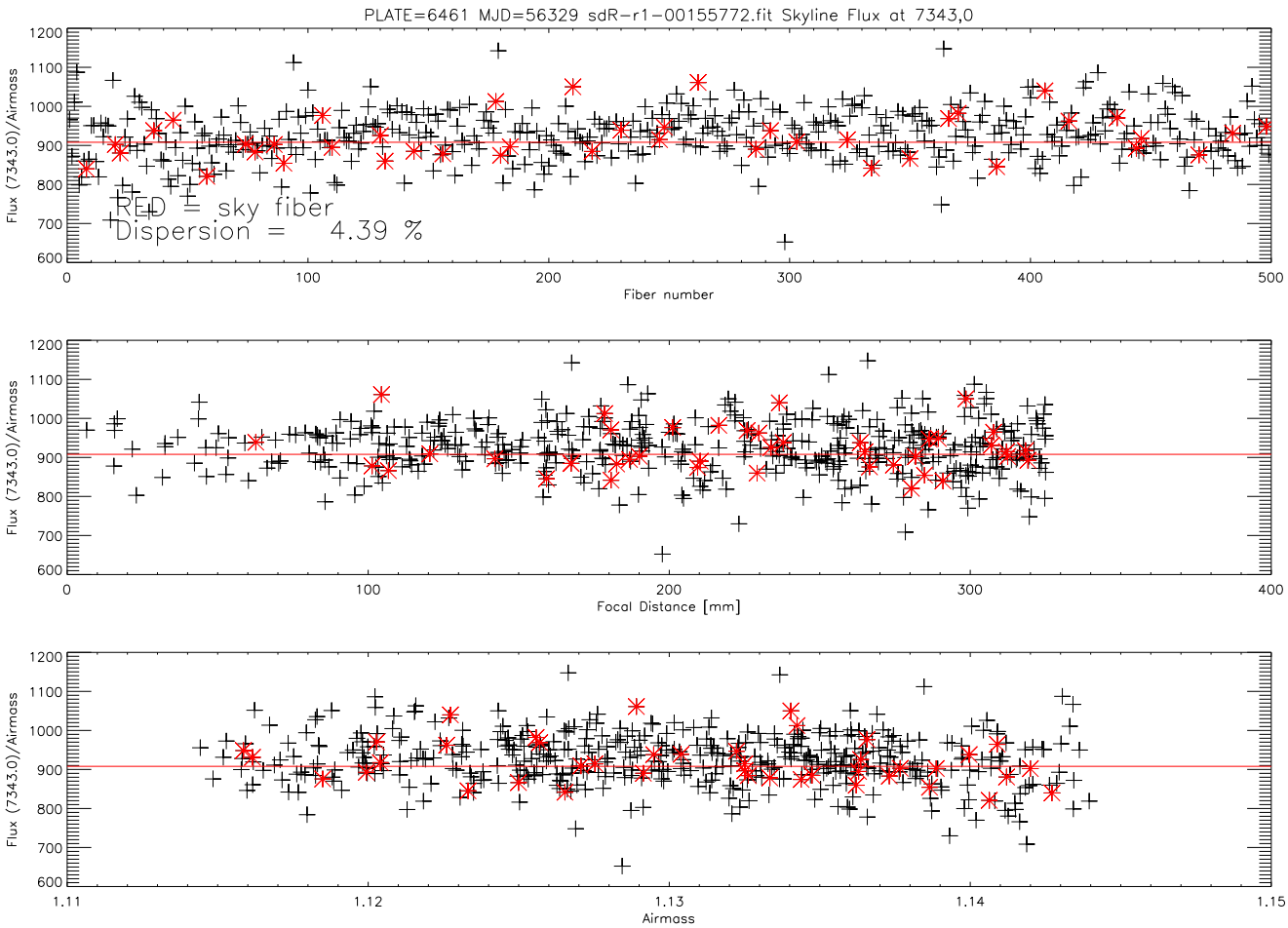

PLATE=6461 MJD=56329 sdR-r1-00155772.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

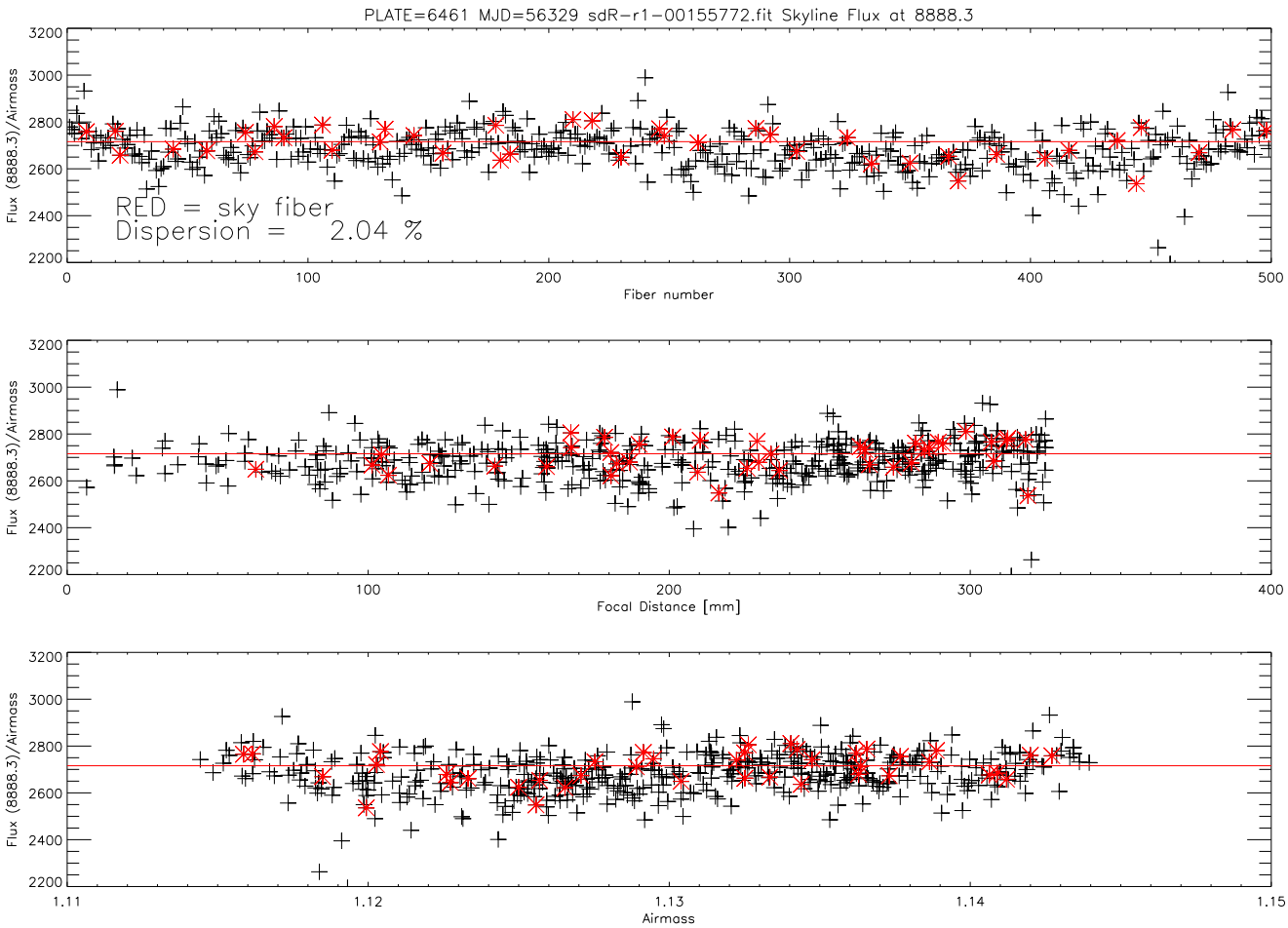

PLATE=6461 MJD=56329 sdR-r1-00155772.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

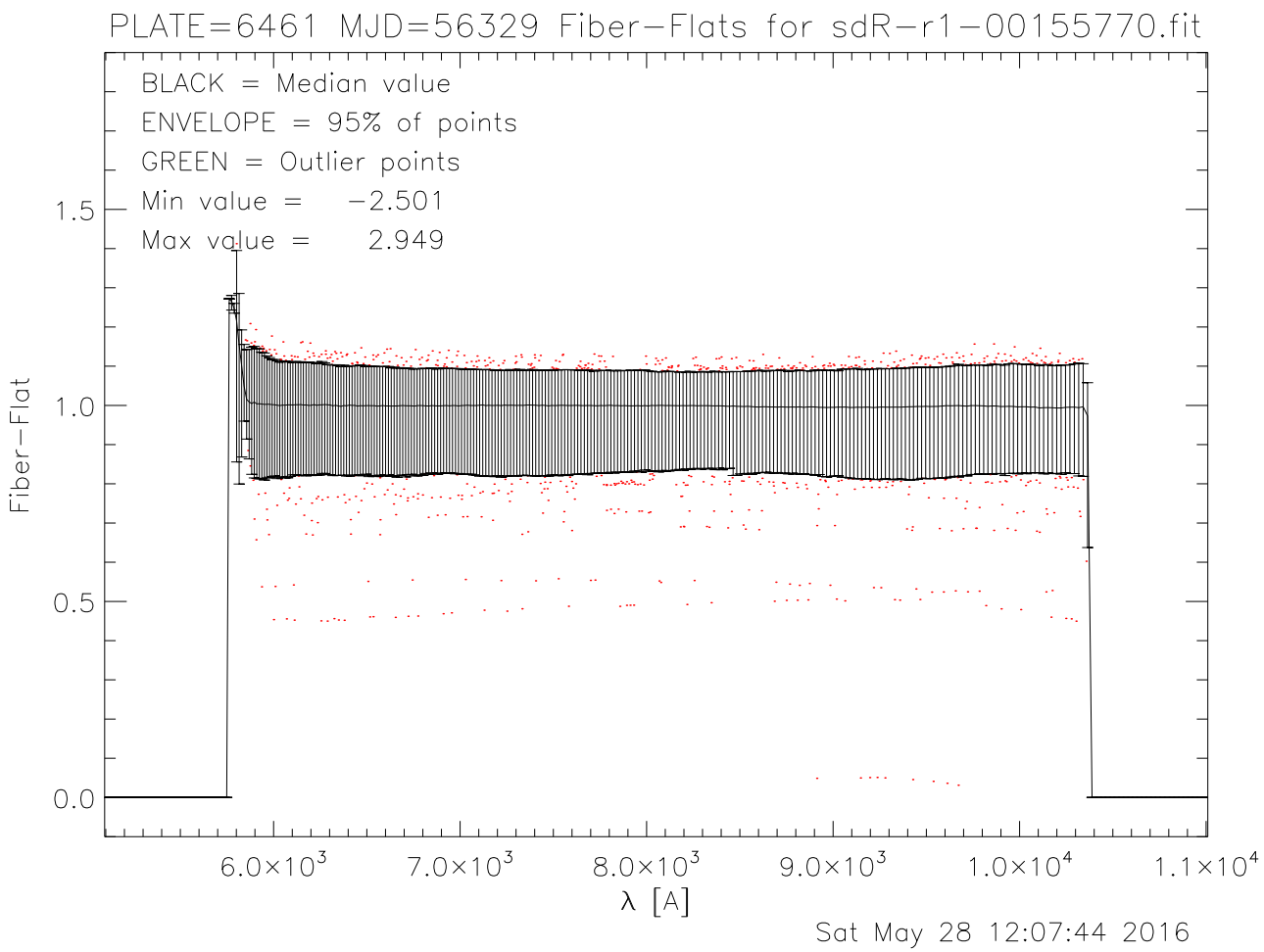

PLATE=6461 MJD=56329 sdR-r1-00155772.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
8820
8840
8860
8880
8900
λ [A]

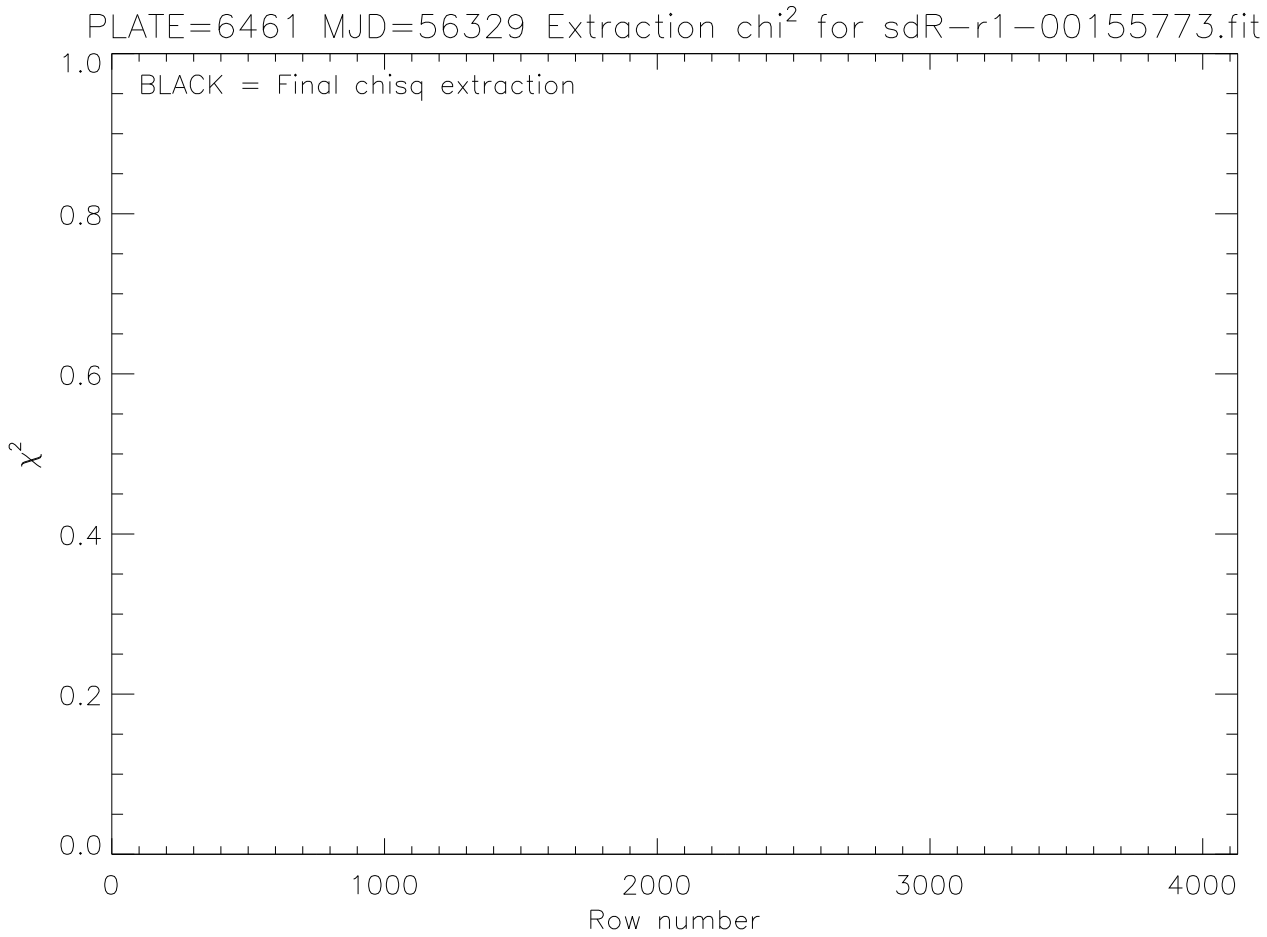
Number of sky fibers = 42

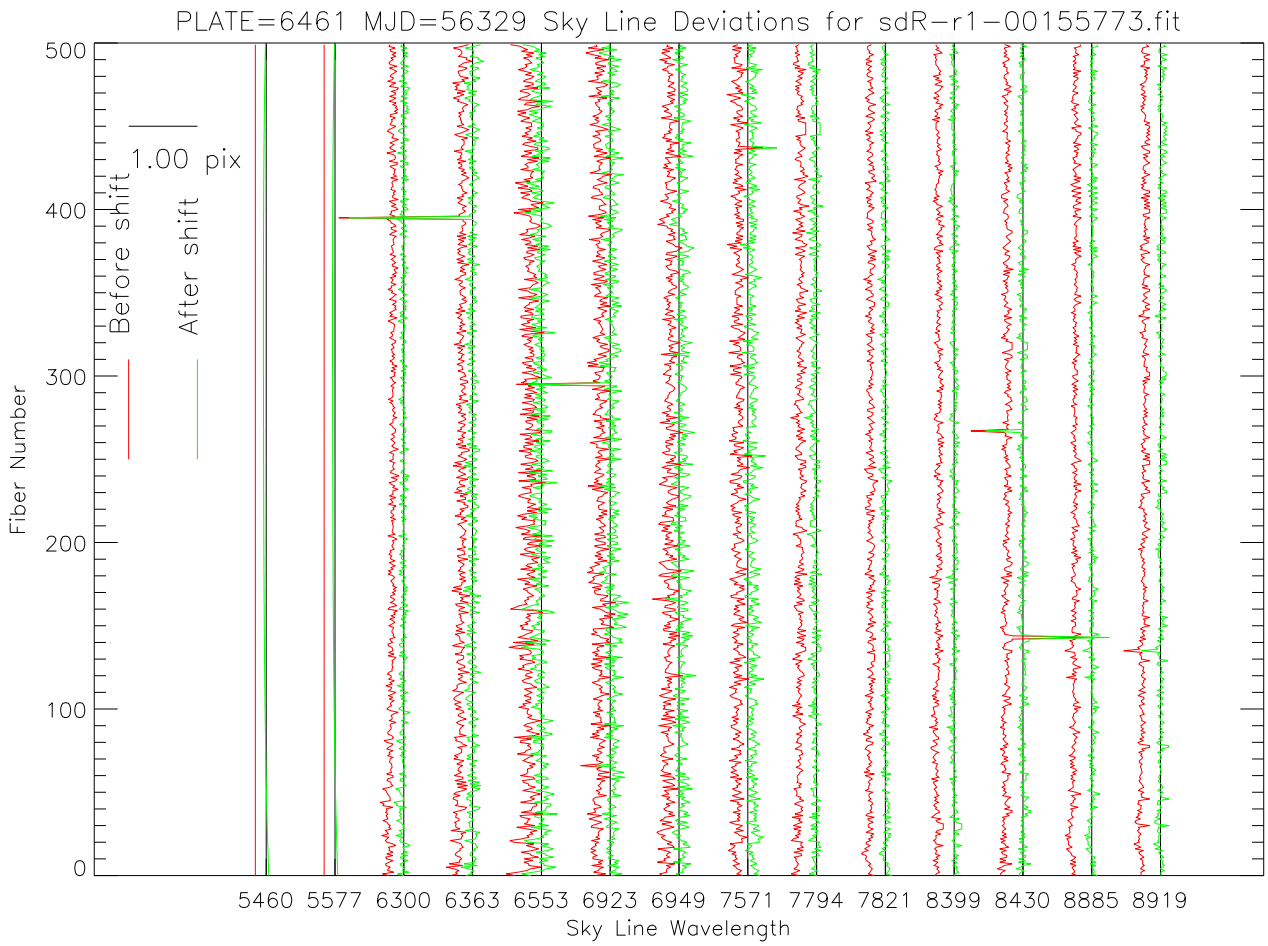


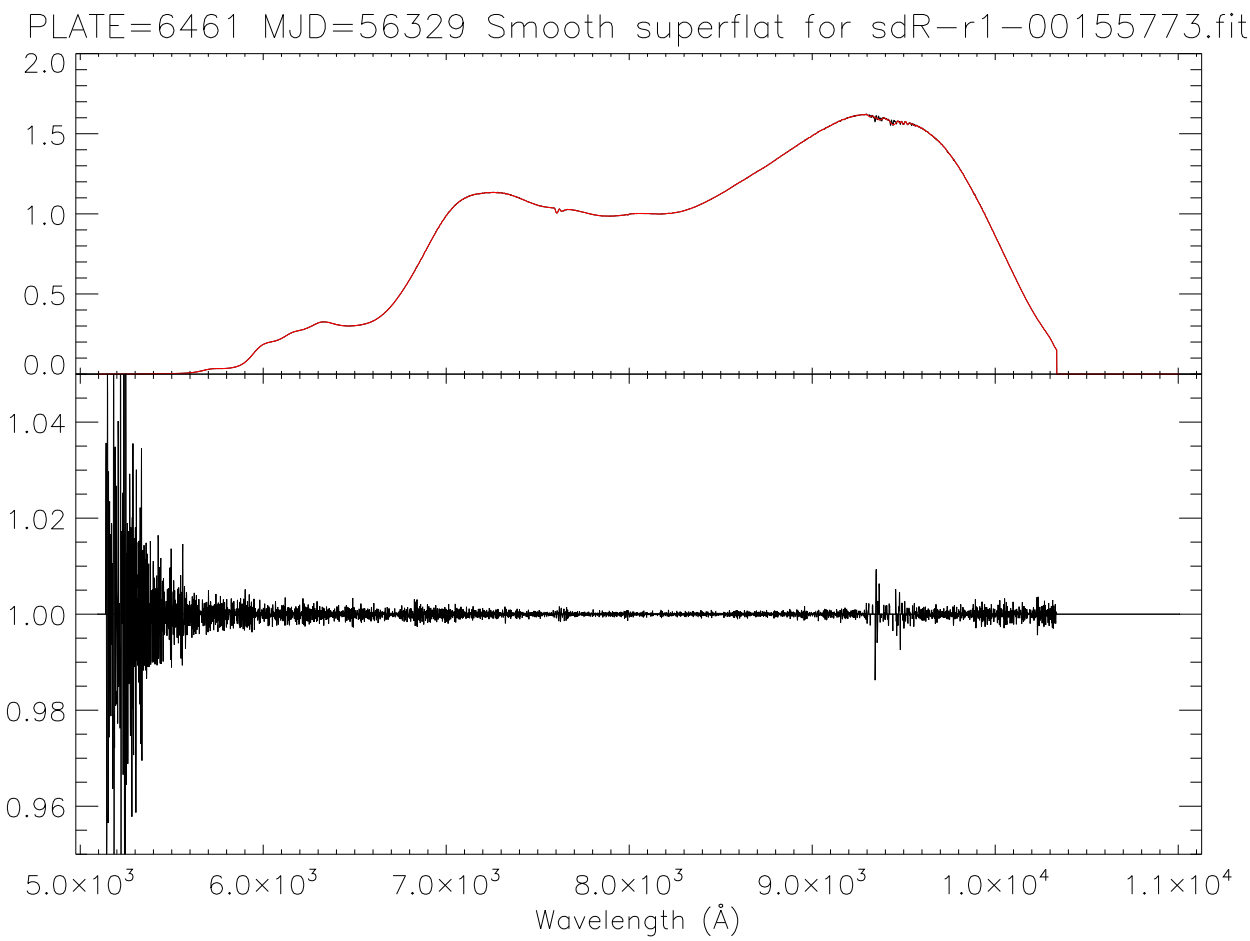

PLATE=6461 MJD=56329 sdR-r1-00155772.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 4.39 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

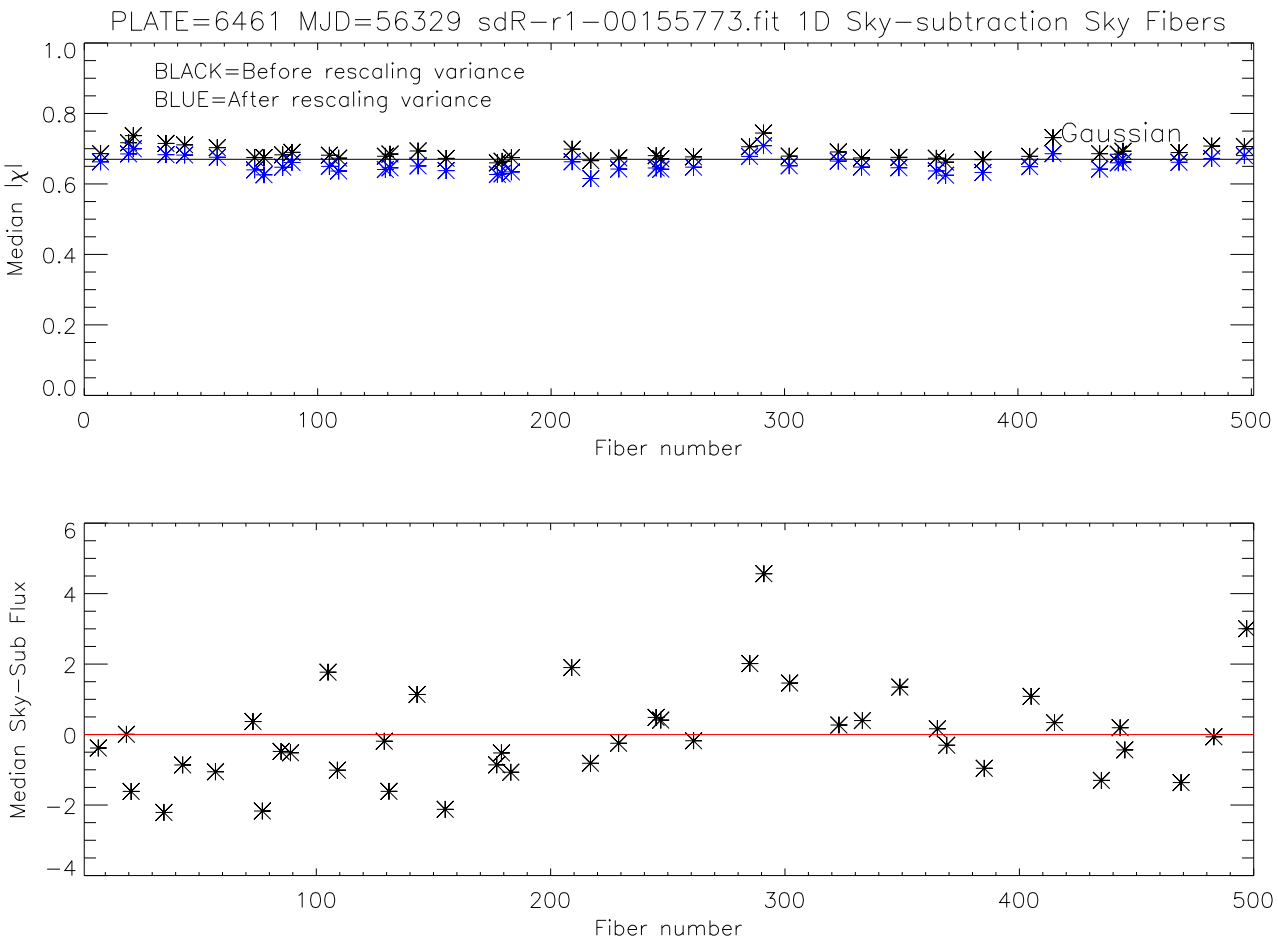

PLATE=6461 MJD=56329 sdR-r1-00155772.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.04 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

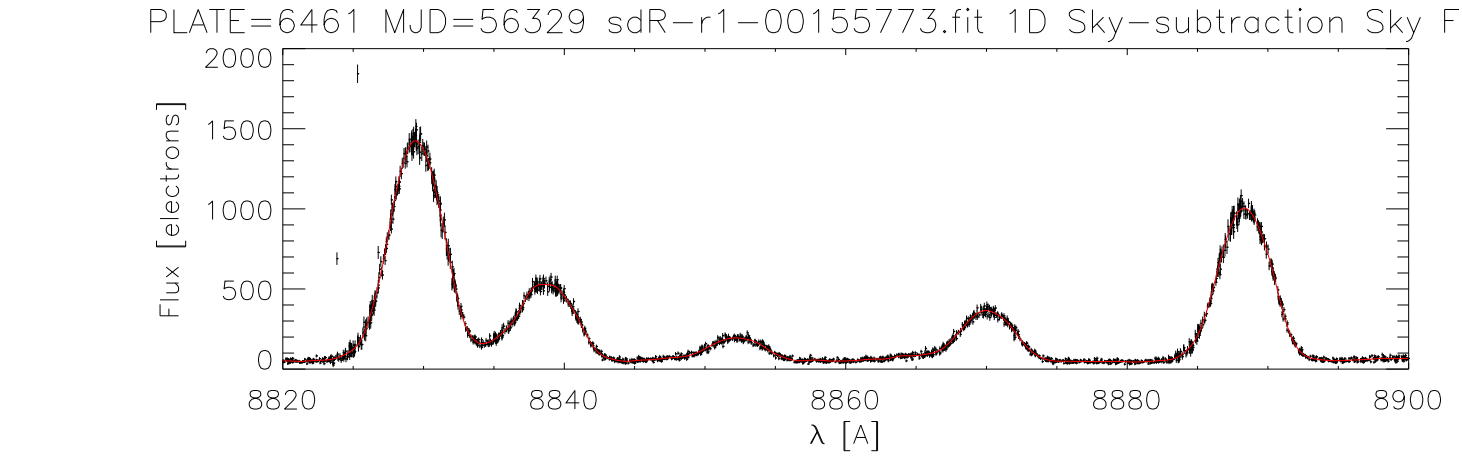

PLATE=6461 MJD=56329 Fiber−Flats for sdR−r1−00155770.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −2.501
Max value = 2.949
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Sat May 28 12:07:44 2016

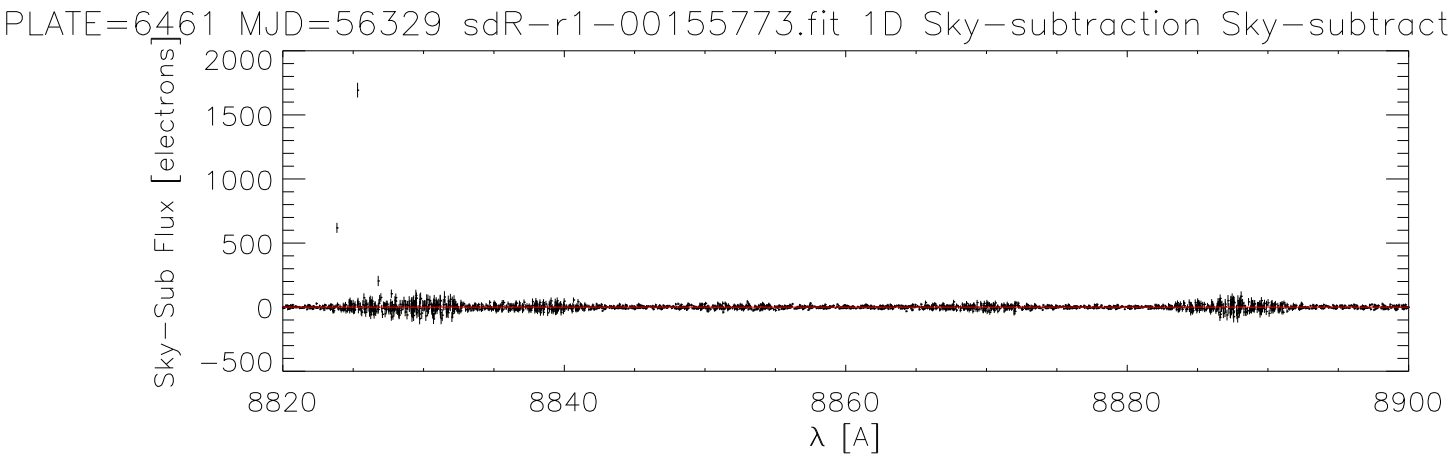

PLATE=6461 MJD=56329 Extraction chi^2 for sdR−r1−00155773.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=6461 MJD=56329 Sky Line Deviations for sdR-r1-00155773.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

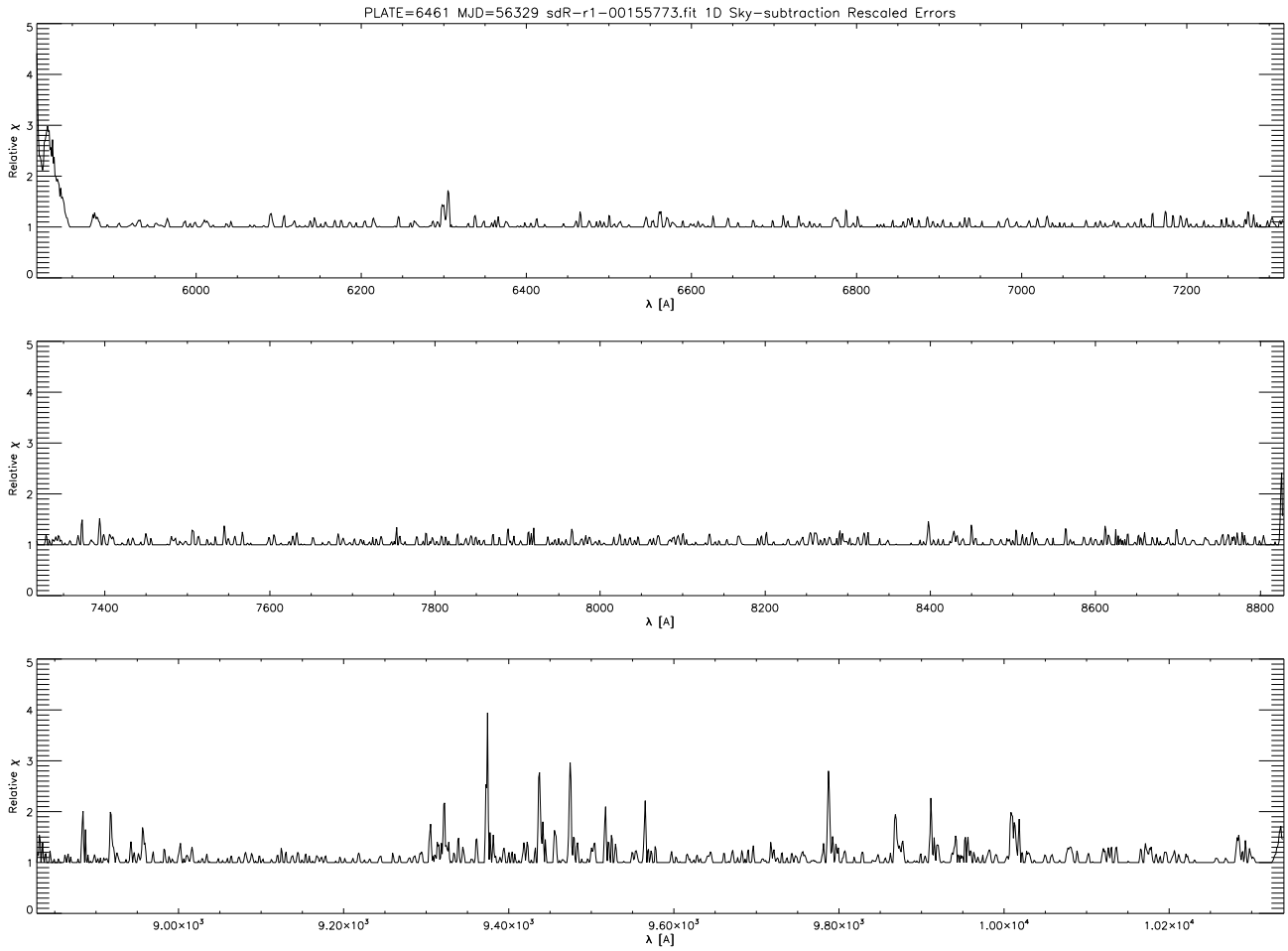

PLATE=6461 MJD=56329 Smooth superflat for sdR-r1-00155773.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

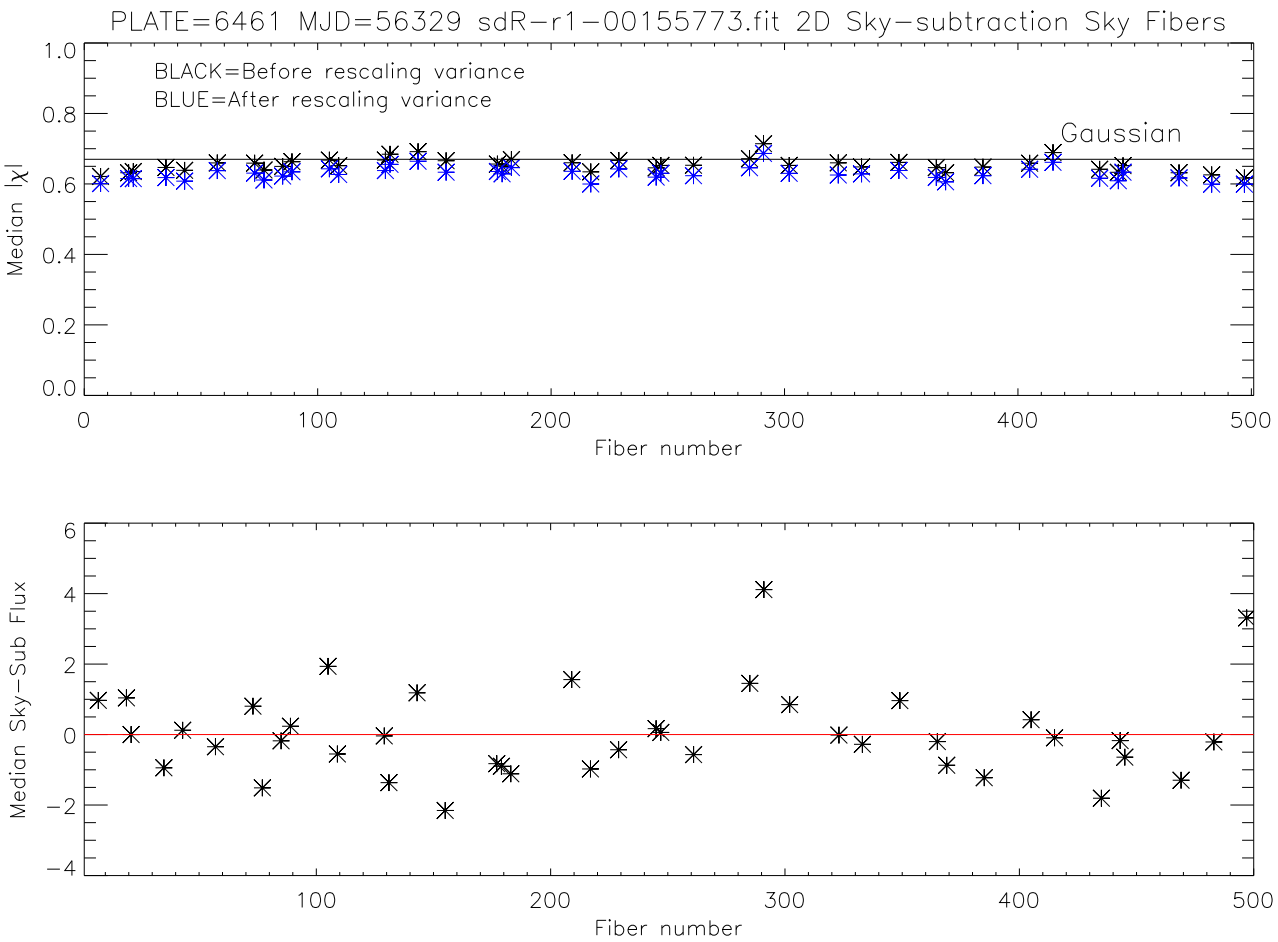

PLATE=6461 MJD=56329 sdR-r1-00155773.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

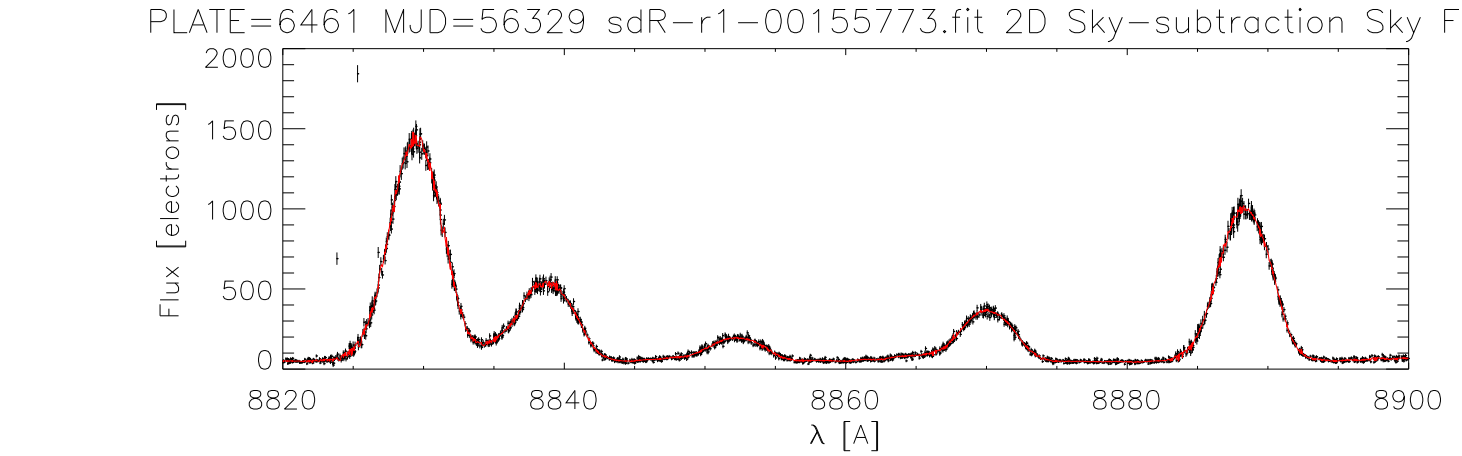

PLATE=6461 MJD=56329 sdR-r1-00155773.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

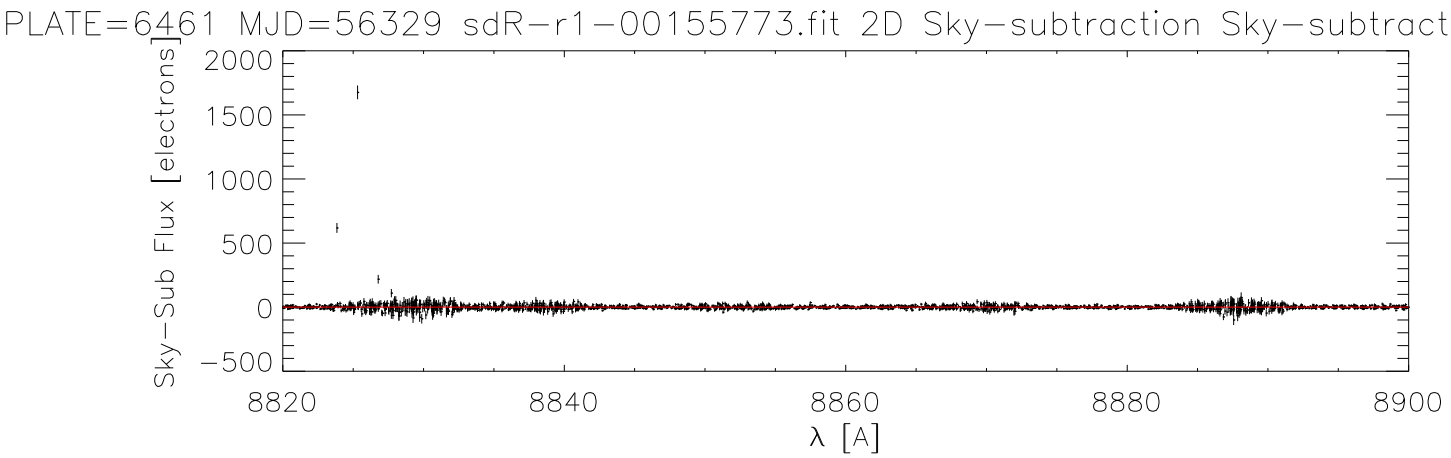

PLATE=6461 MJD=56329 sdR-r1-00155773.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 42

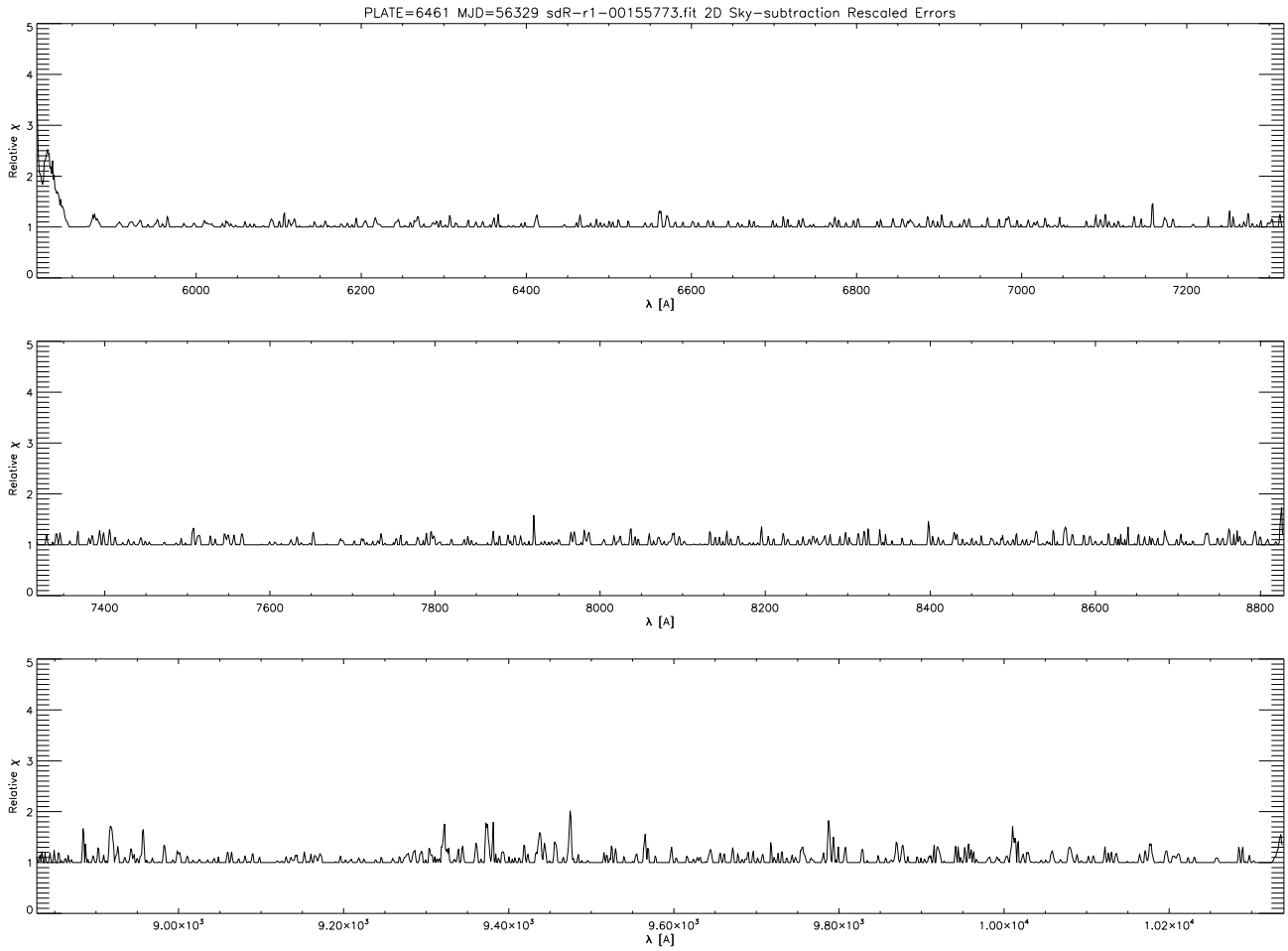


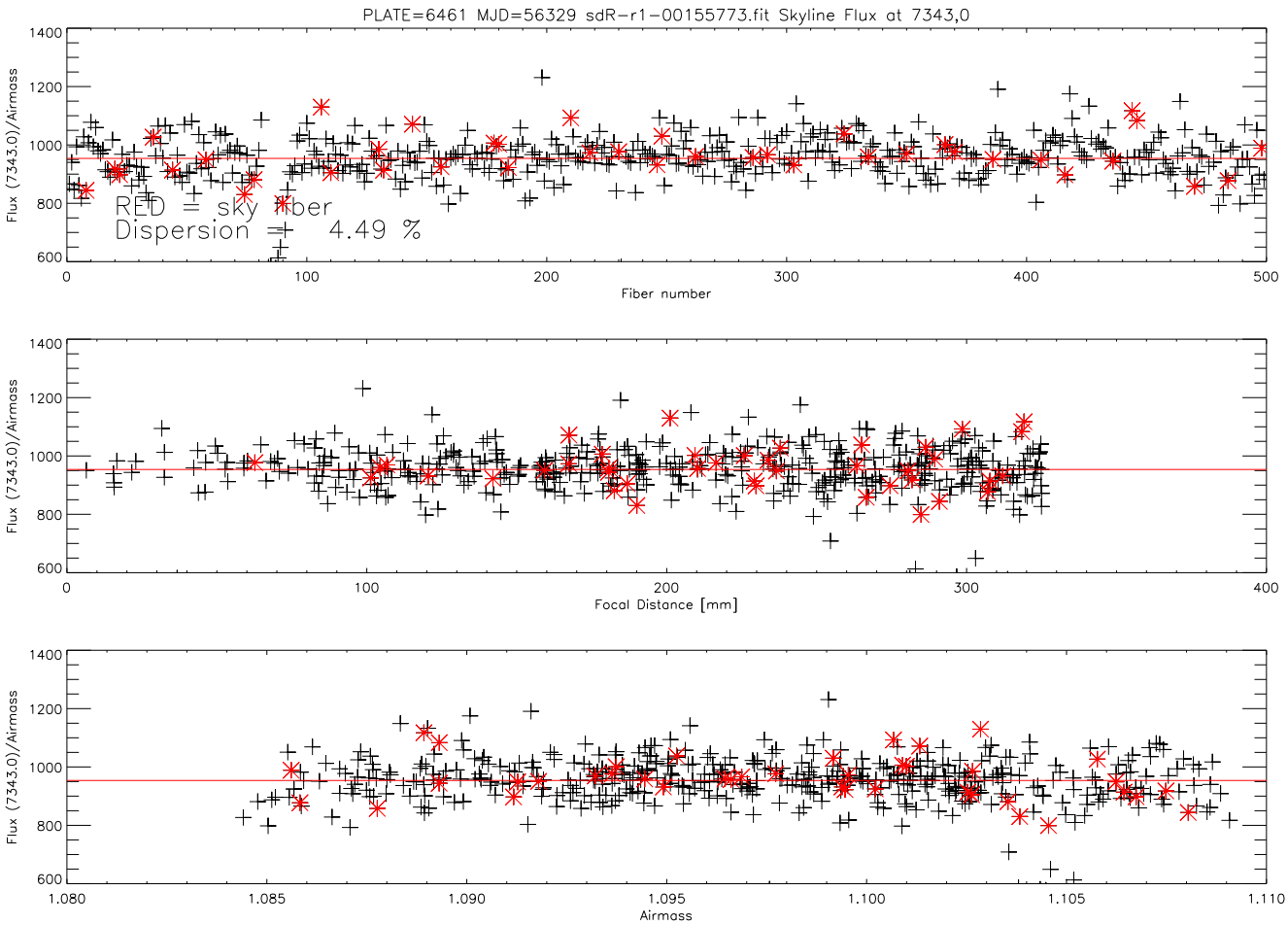

PLATE=6461 MJD=56329 sdR-r1-00155773.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

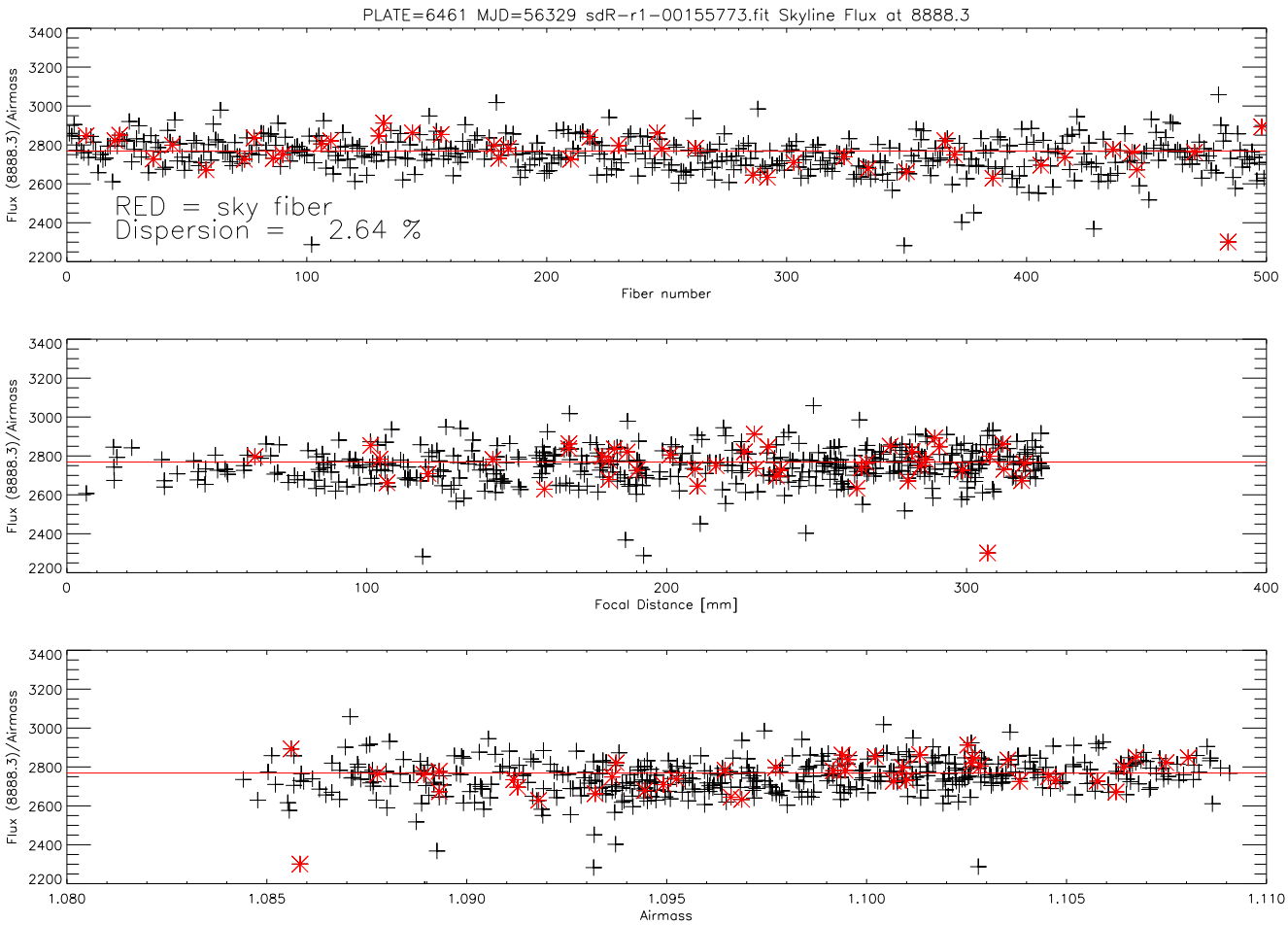

PLATE=6461 MJD=56329 sdR-r1-00155773.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]


PLATE=6461 MJD=56329 sdR-r1-00155773.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

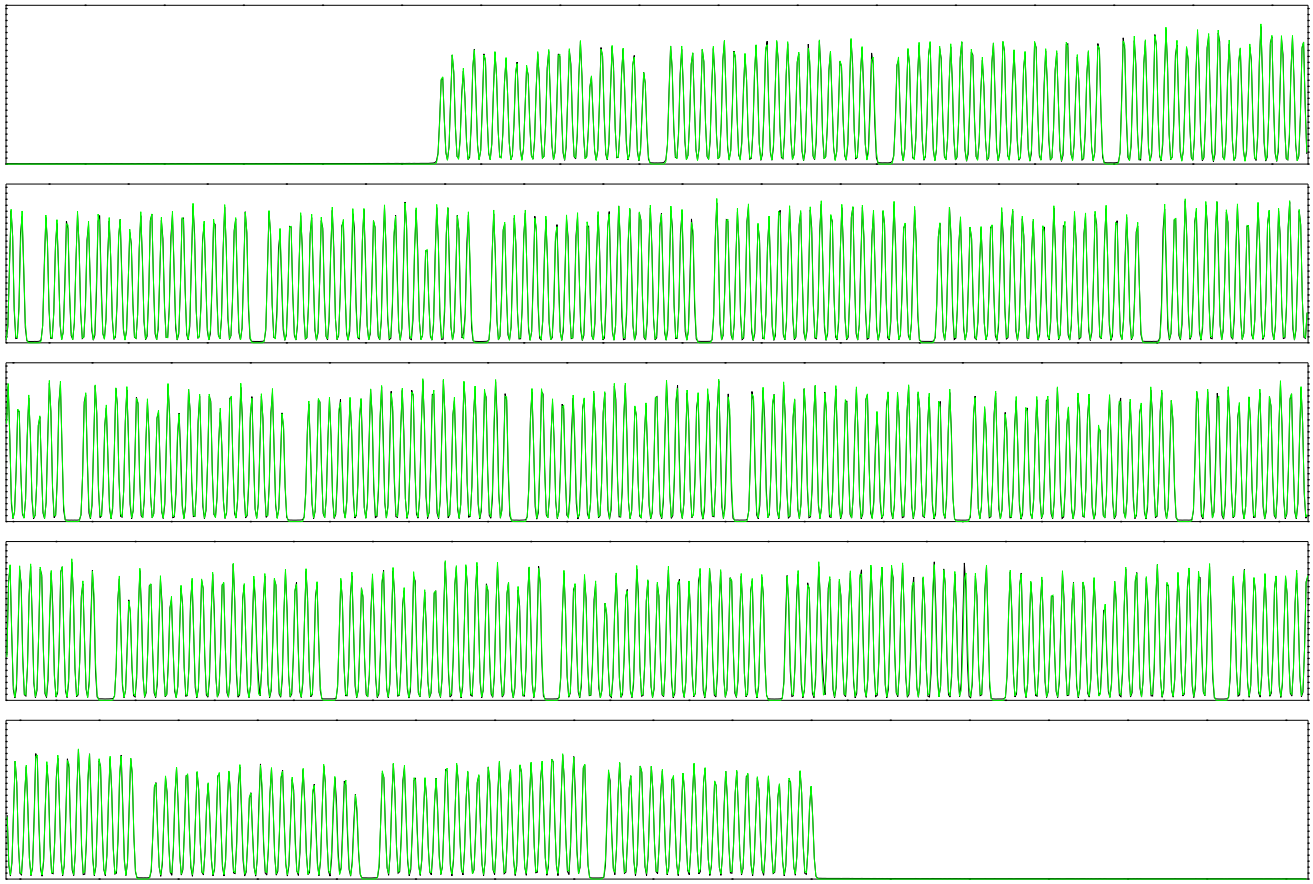
Number of sky fibers = 42

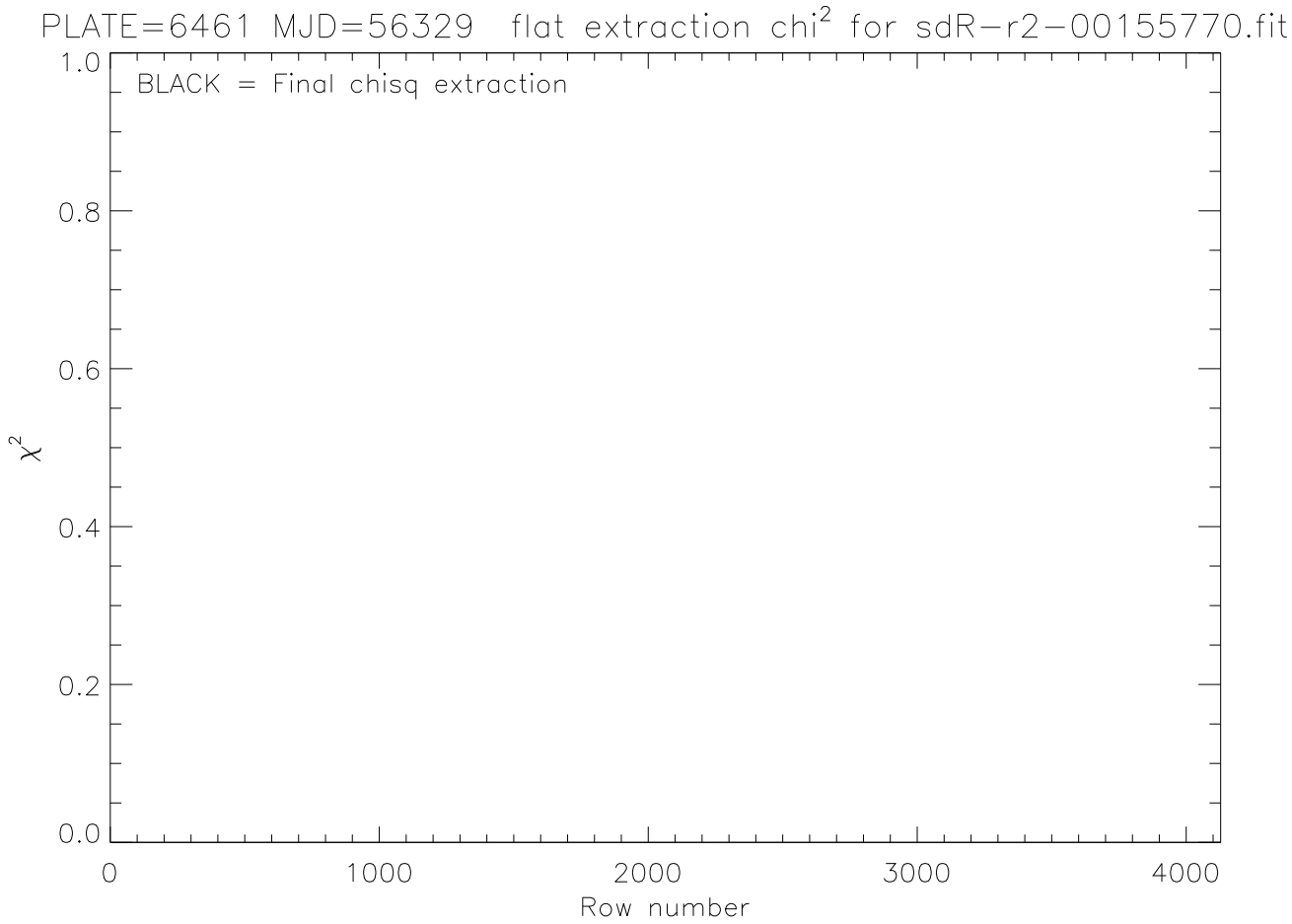


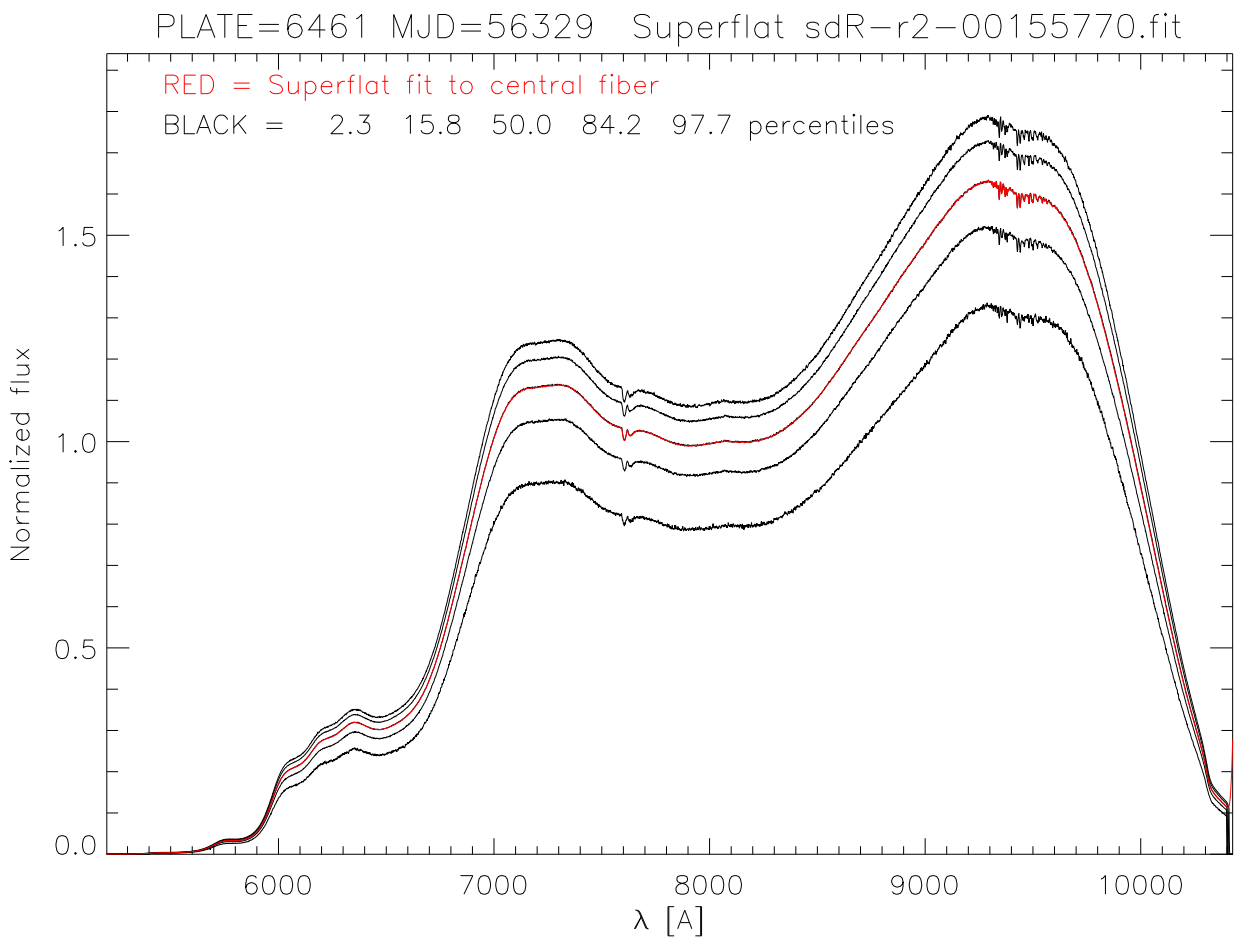

PLATE=6461 MJD=56329 sdR-r1-00155773.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 4.49 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

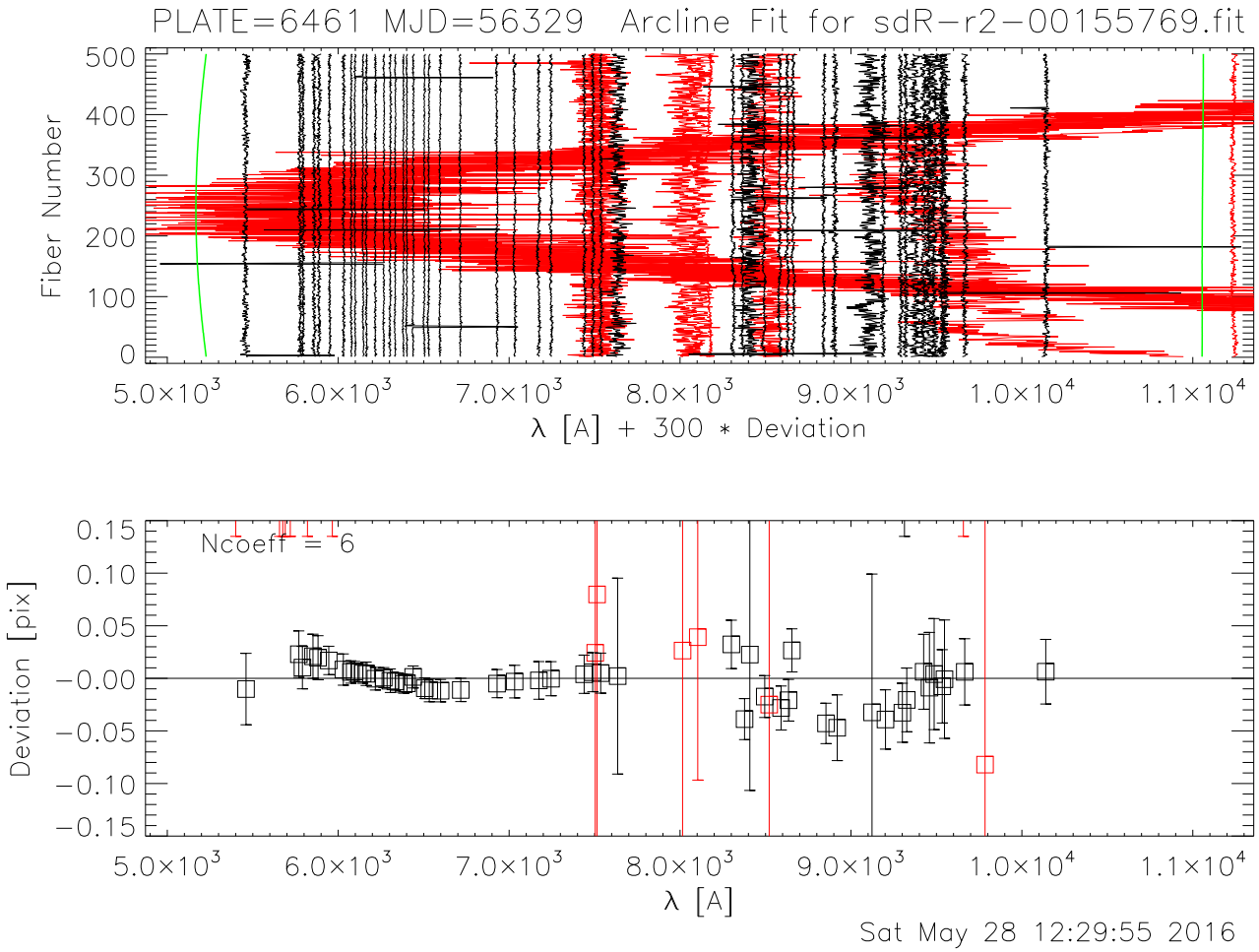

PLATE=6461 MJD=56329 sdR-r1-00155773.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.64 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

PLATE=6461 MJD=56329 Traces sdR-r2-00155770.fit

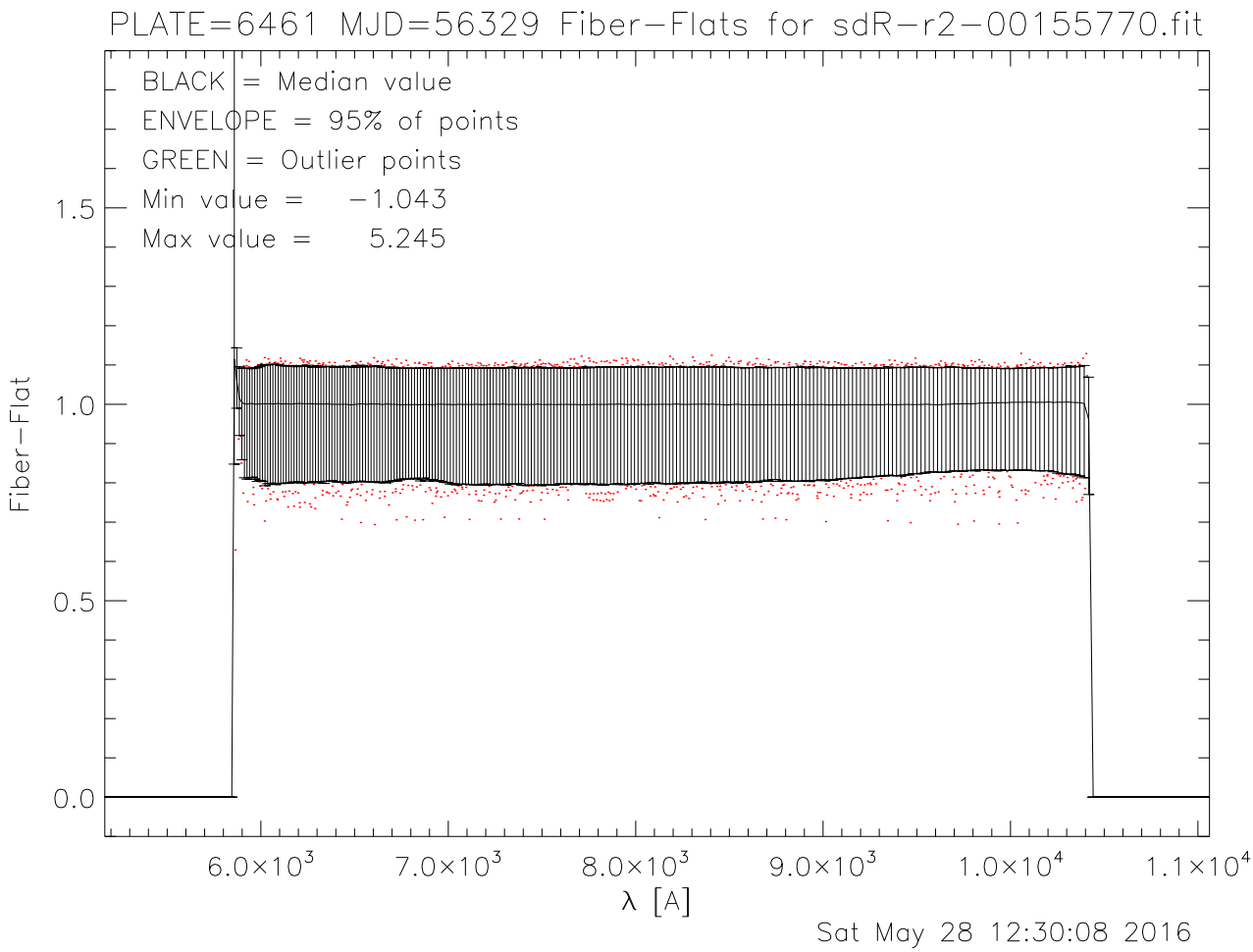


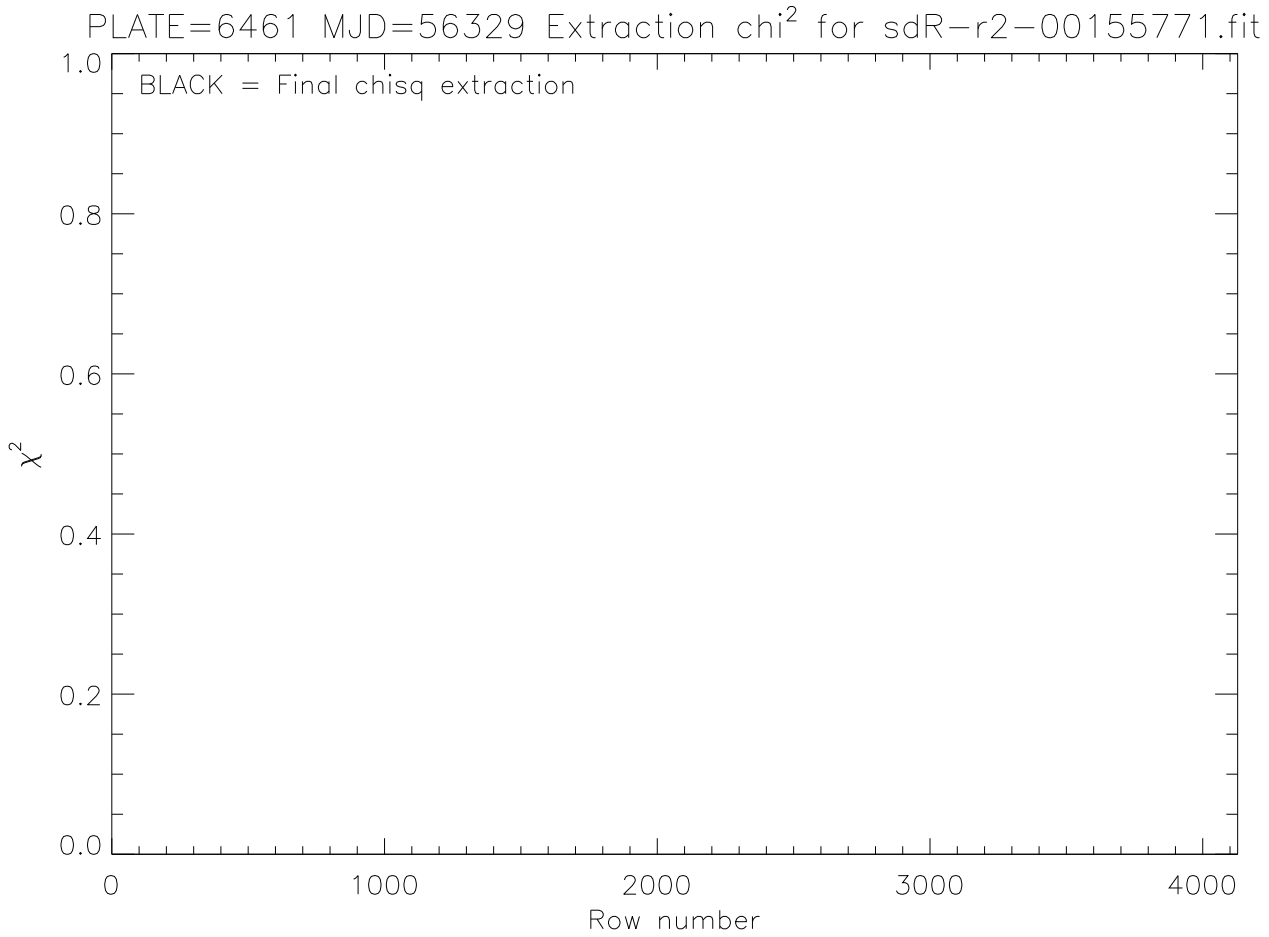

PLATE=6461 MJD=56329 flat extraction chi^2 for sdR-r2-00155770.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number

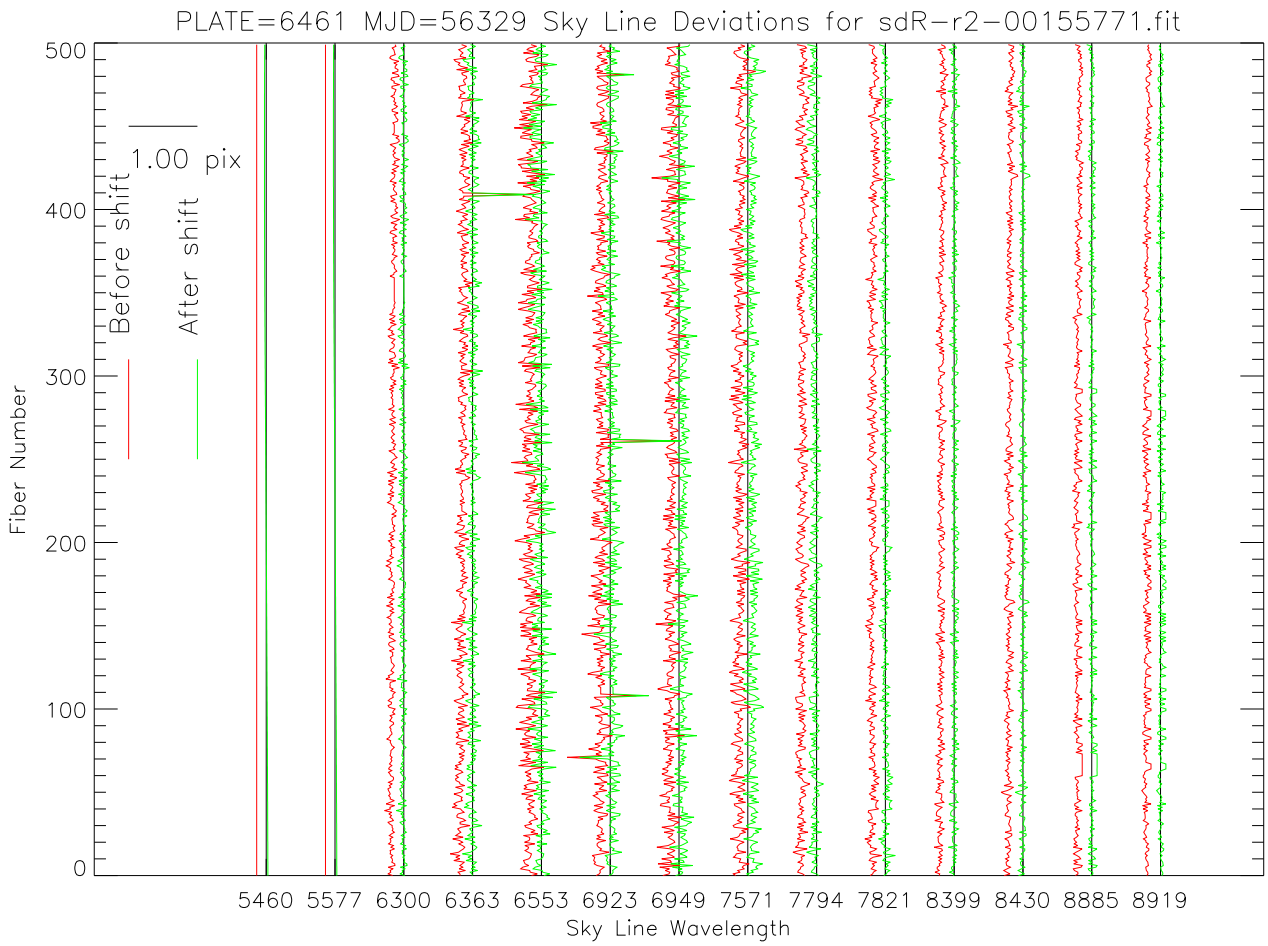

PLATE=6461 MJD=56329 Superflat sdR-r2-00155770.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
0.0
0.5
1.0
1.5
6000
7000
8000
9000
10000
λ [A]

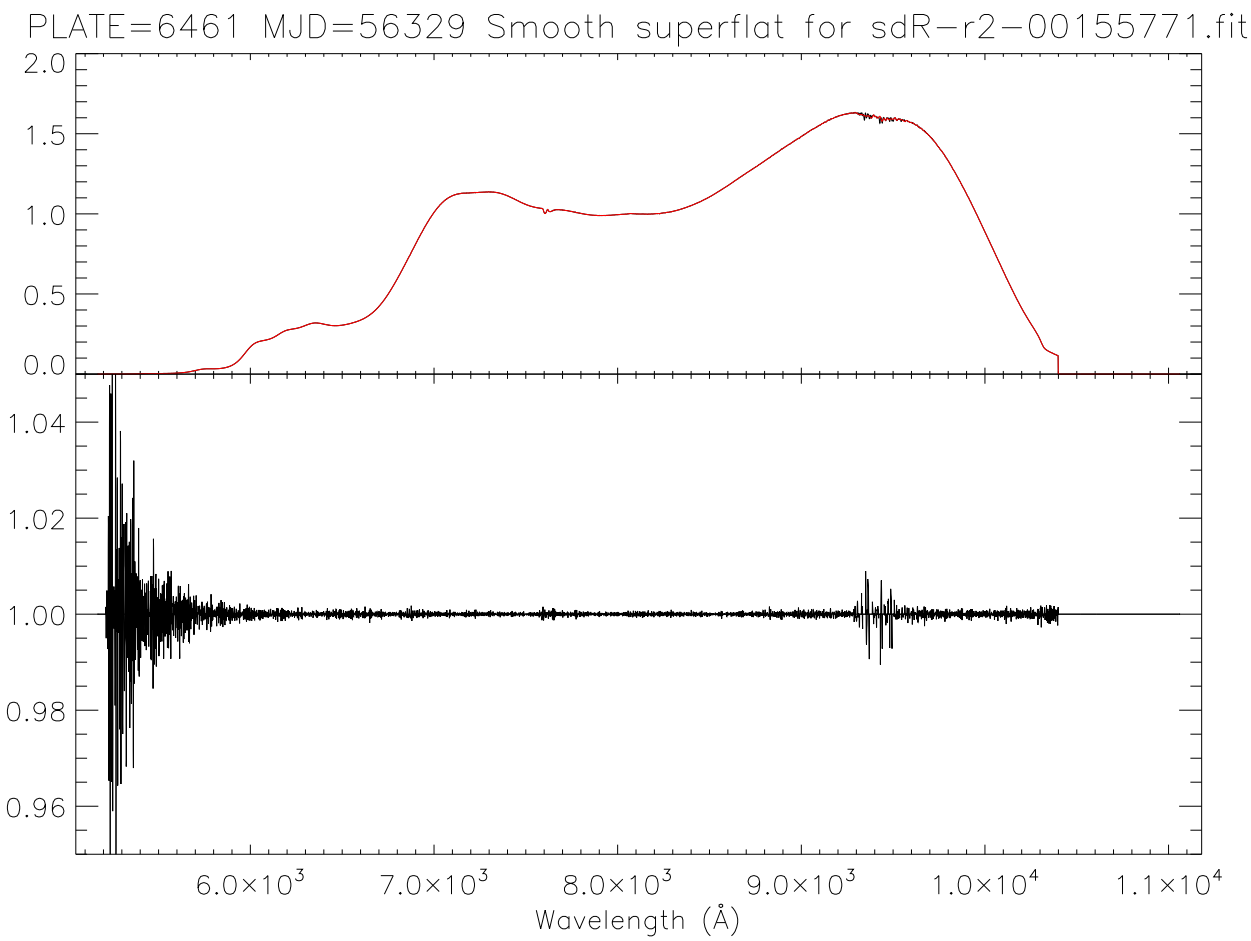

PLATE=6461 MJD=56329 Arcline Fit for sdR-r2-00155769.fit
Fiber Number
500
400
300
200
100
0
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A] + 300 * Deviation

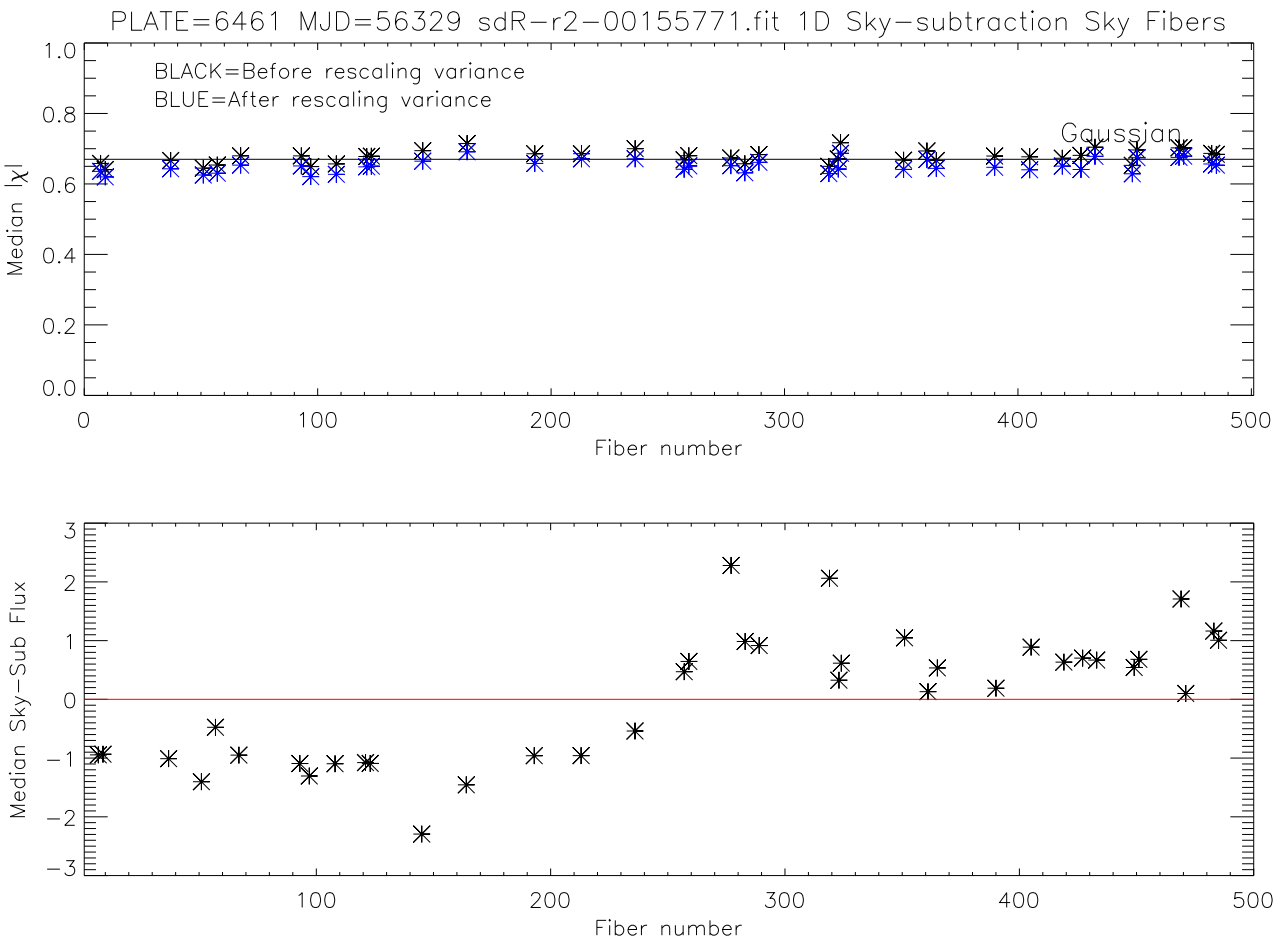
Ncoeff = 6
Deviation [pix]
0.15
0.10
0.05
−0.00
−0.05
−0.10
−0.15
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Sat May 28 12:29:55 2016

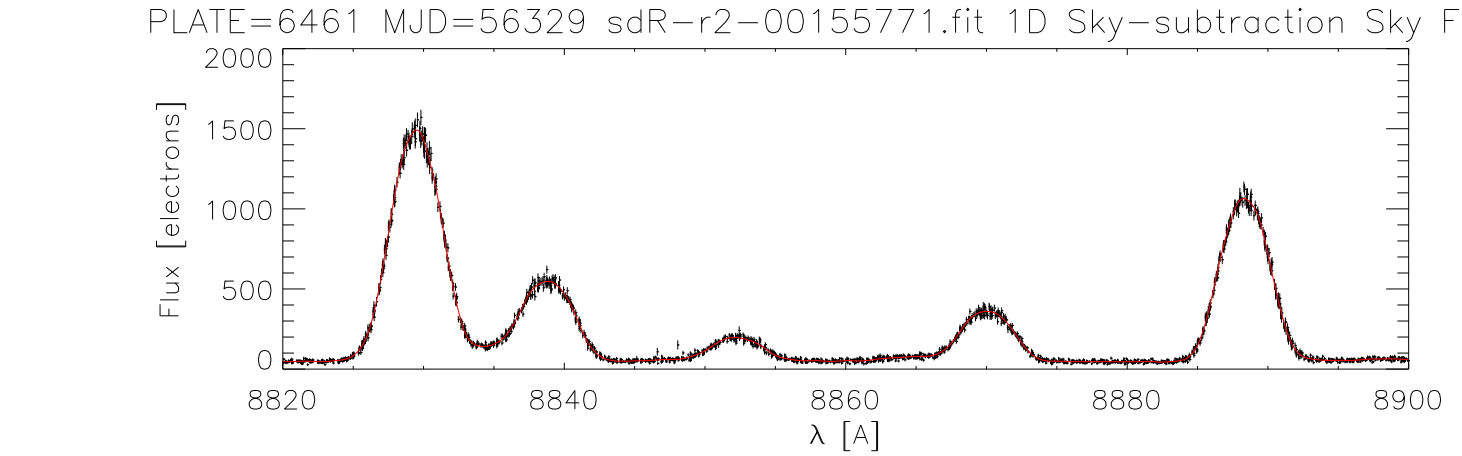

PLATE=6461 MJD=56329 Fiber−Flats for sdR−r2−00155770.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −1.043
Max value = 5.245
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Sat May 28 12:30:08 2016

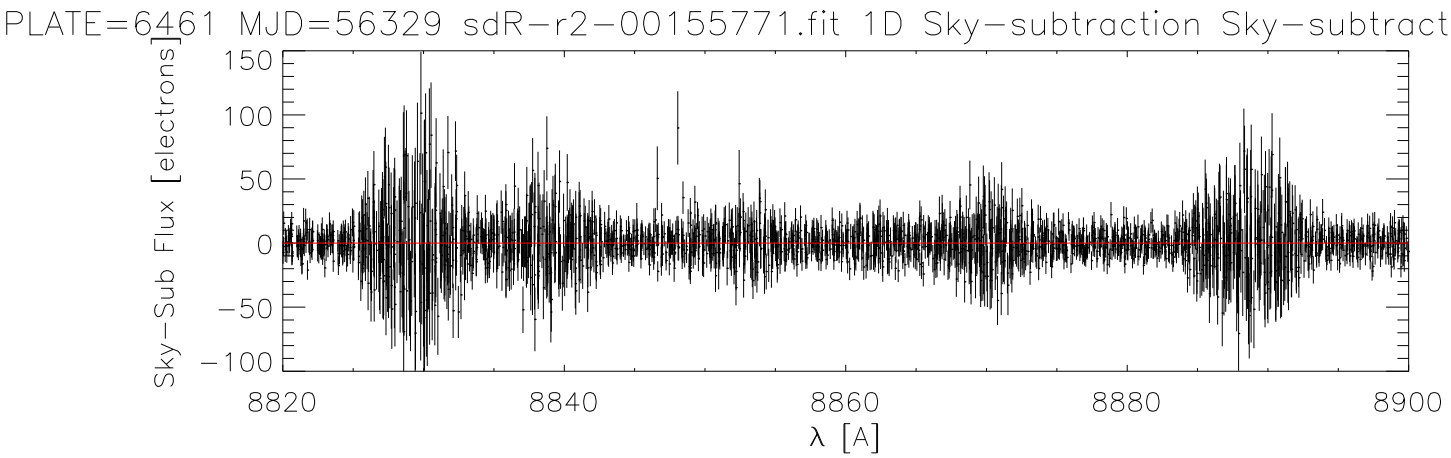

PLATE=6461 MJD=56329 Extraction chi^2 for sdR−r2−00155771.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=6461 MJD=56329 Sky Line Deviations for sdR-r2-00155771.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

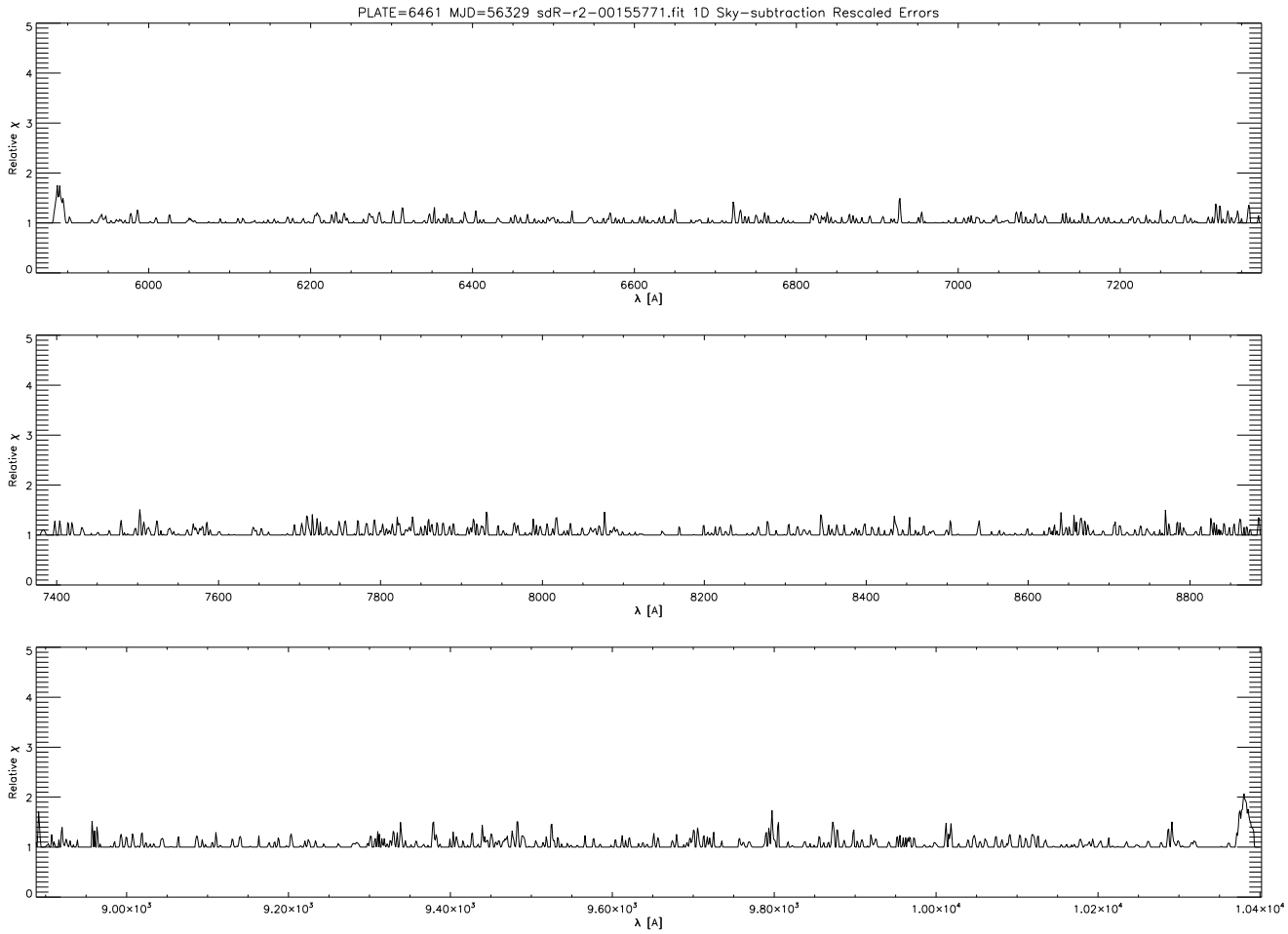

PLATE=6461 MJD=56329 Smooth superflat for sdR-r2-00155771.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

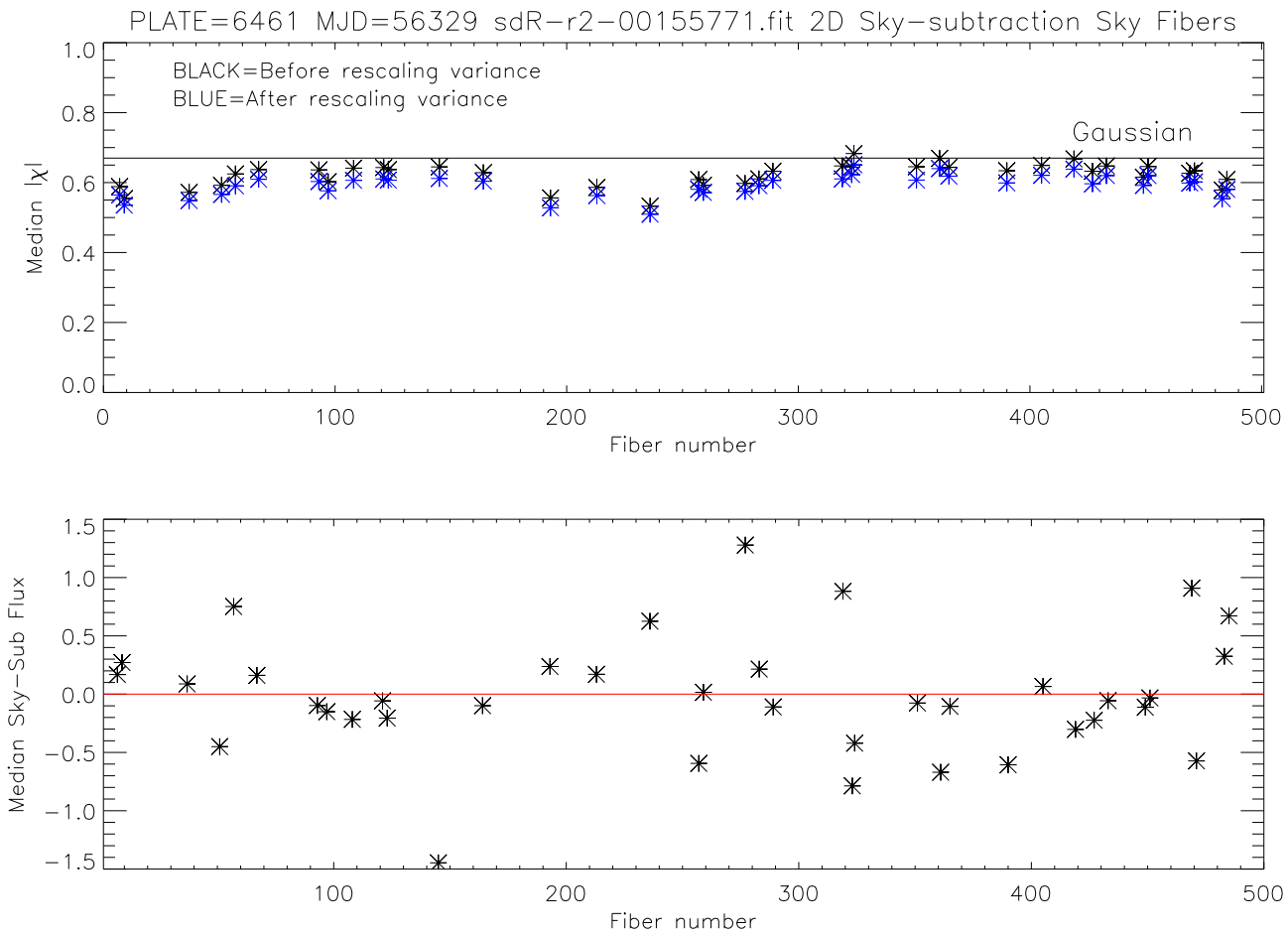

PLATE=6461 MJD=56329 sdR-r2-00155771.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

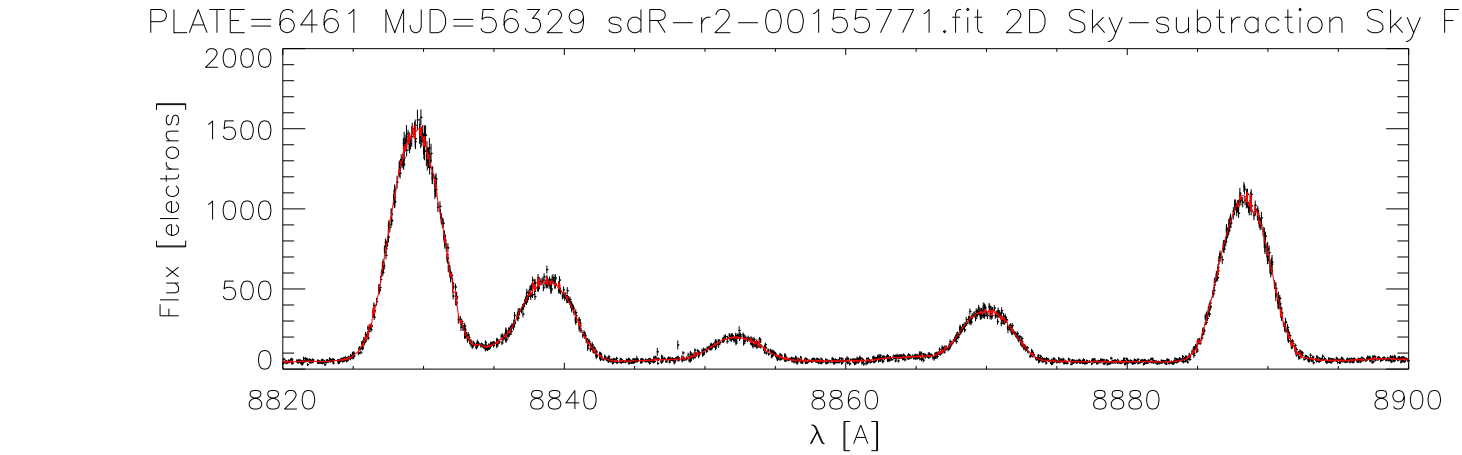

PLATE=6461 MJD=56329 sdR-r2-00155771.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

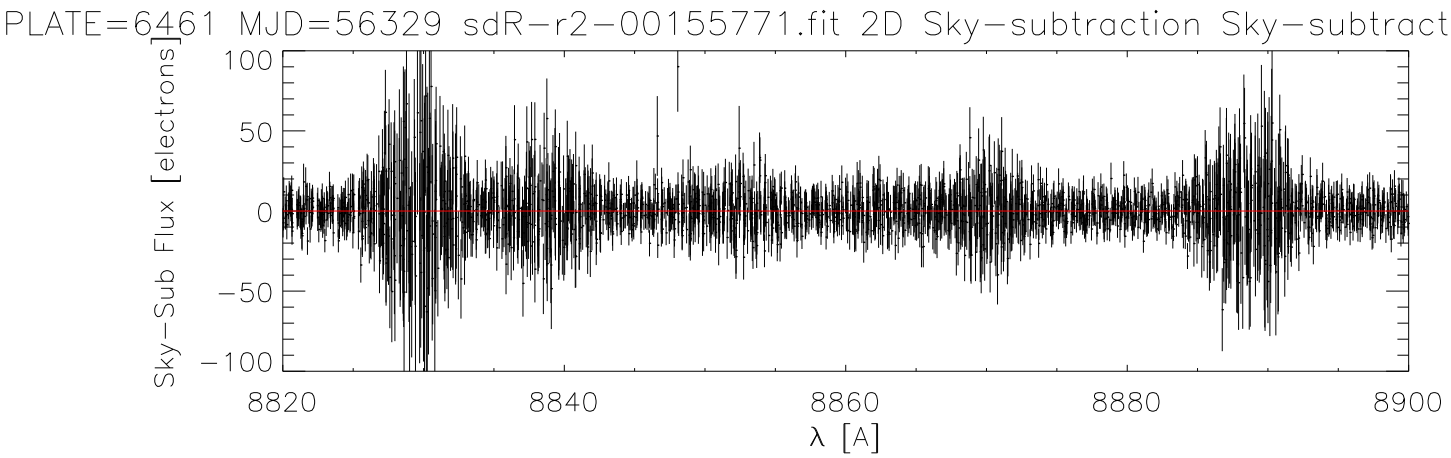

PLATE=6461 MJD=56329 sdR-r2-00155771.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 38

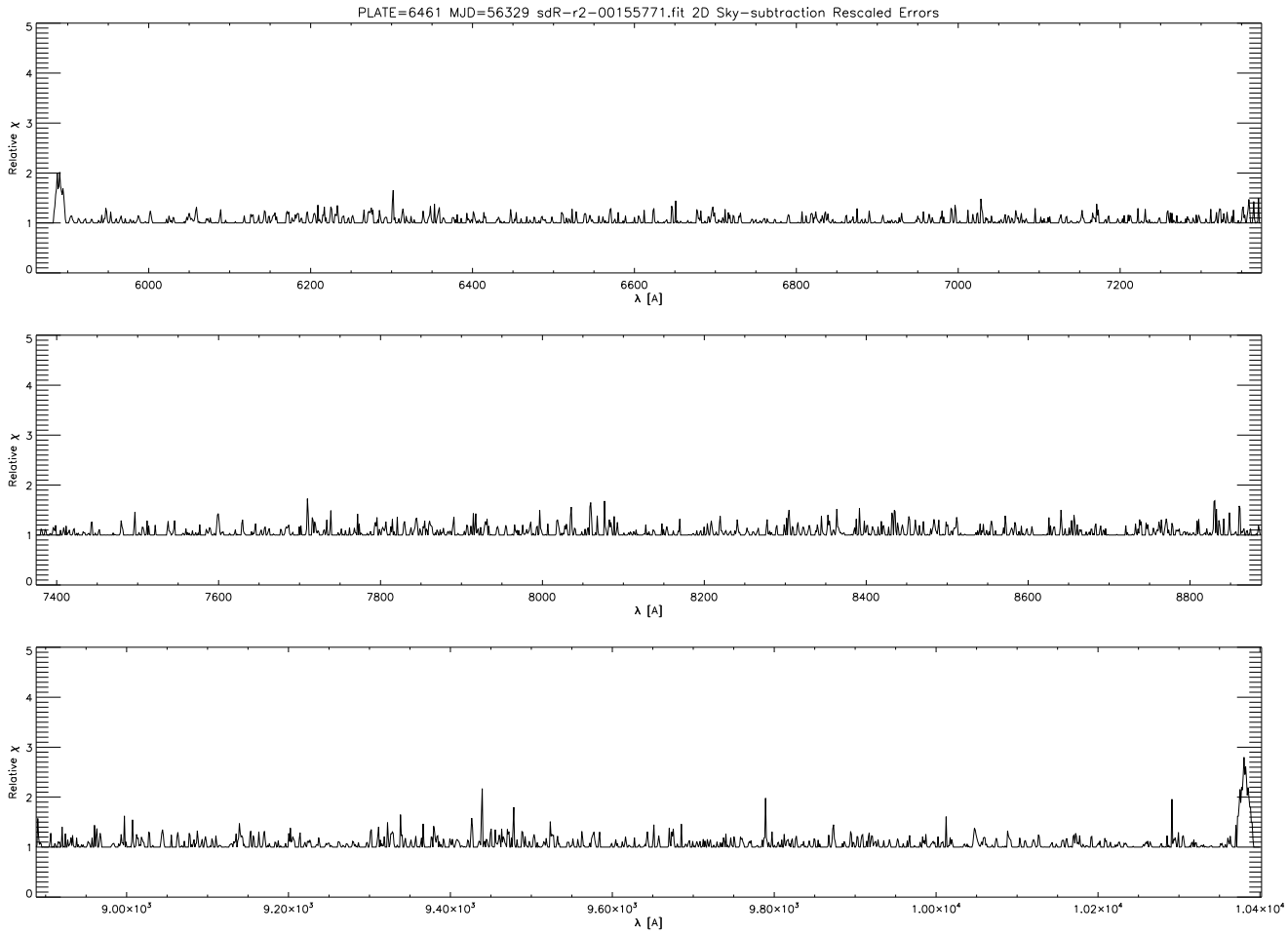


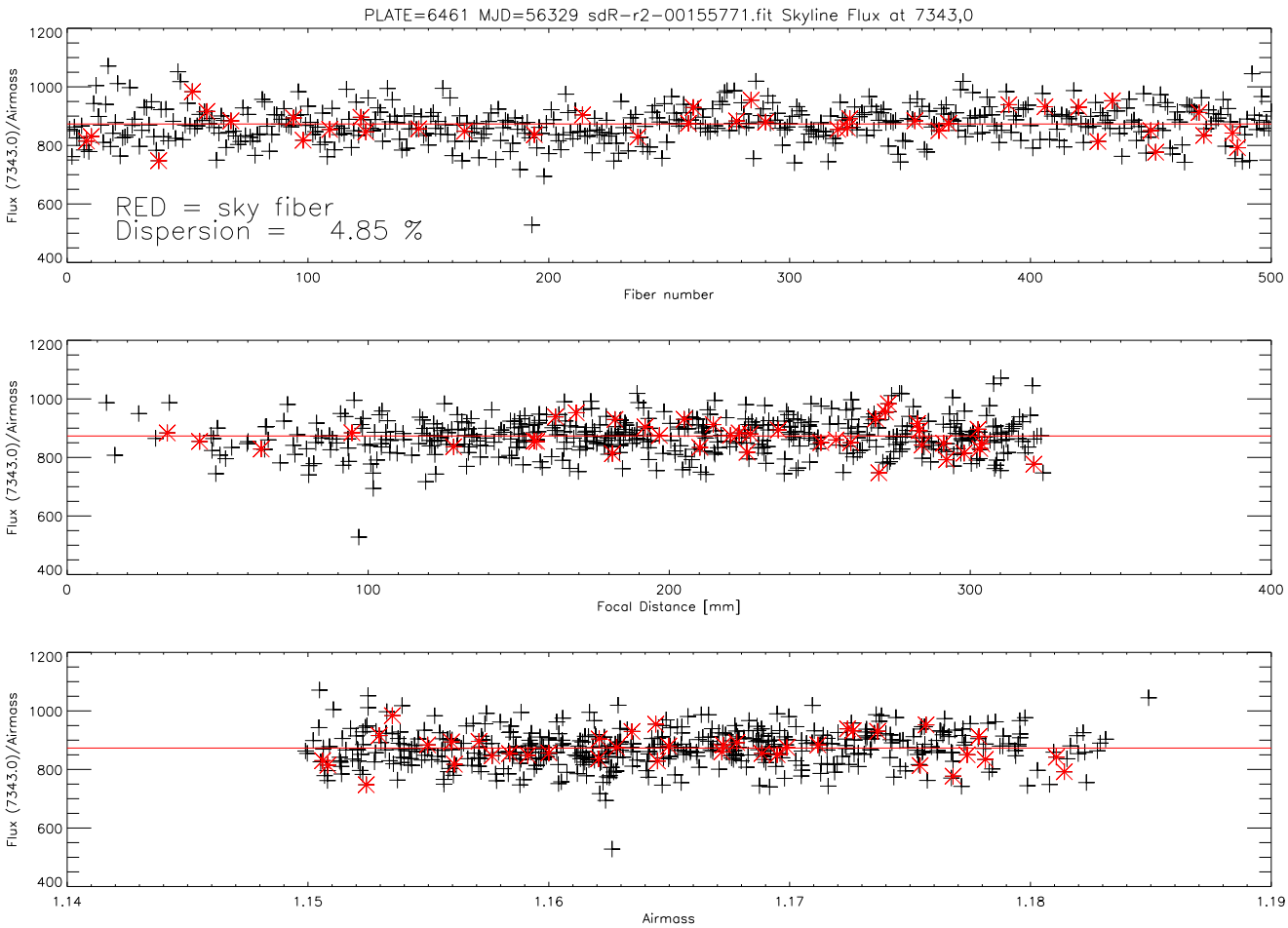

PLATE=6461 MJD=56329 sdR-r2-00155771.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

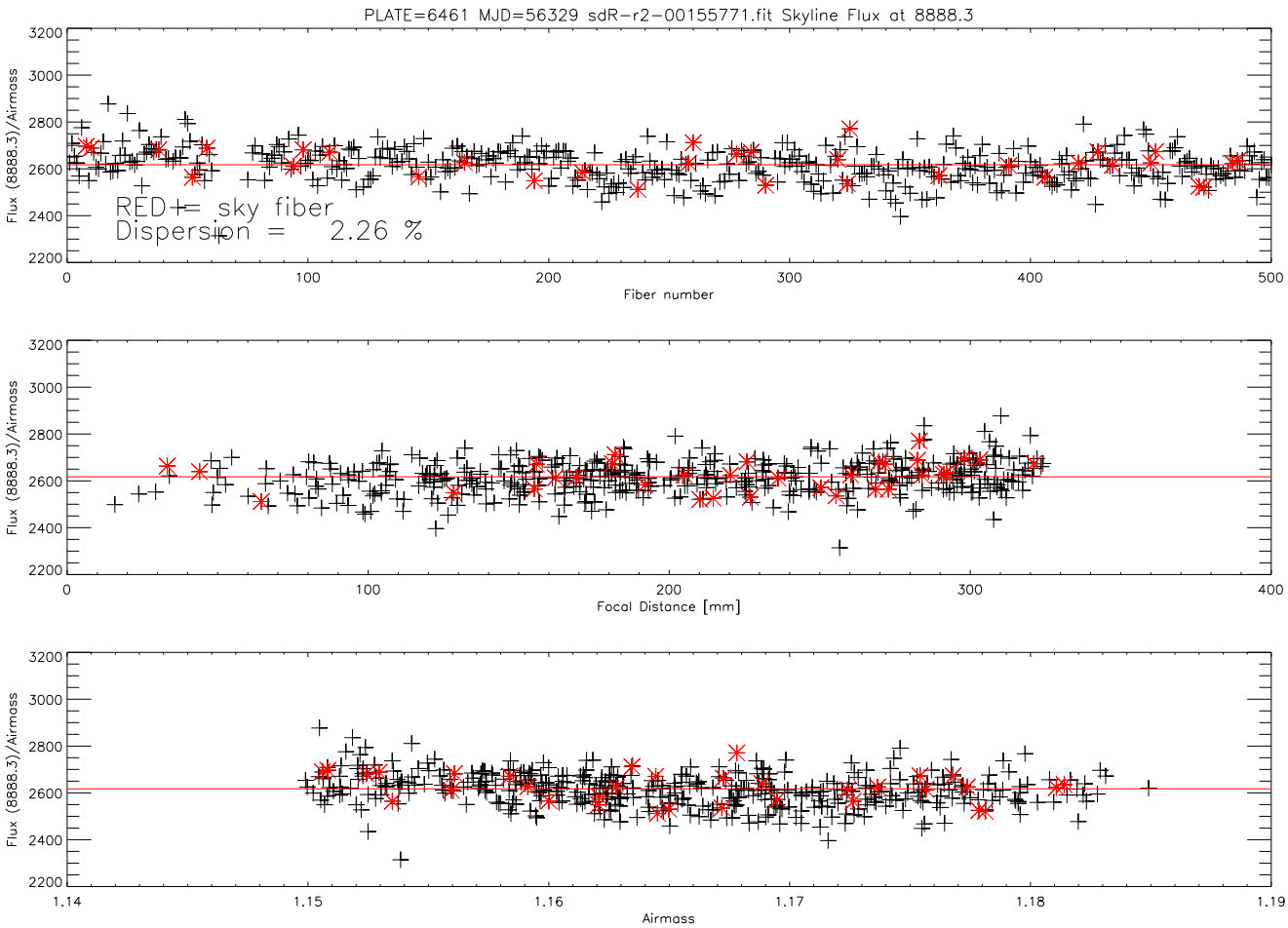

PLATE=6461 MJD=56329 sdR-r2-00155771.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

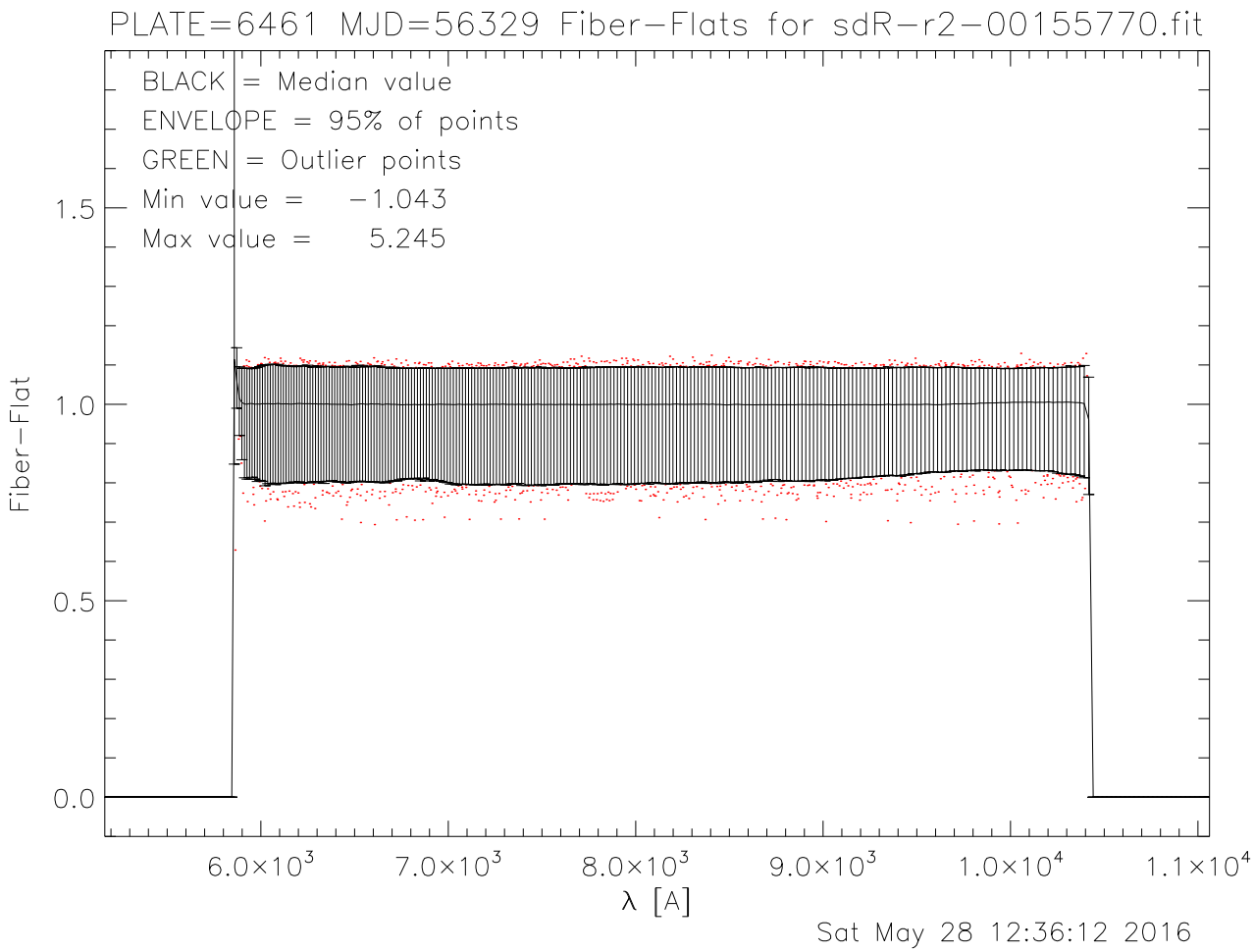

PLATE=6461 MJD=56329 sdR-r2-00155771.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
8820
8840
8860
8880
8900
λ [A]

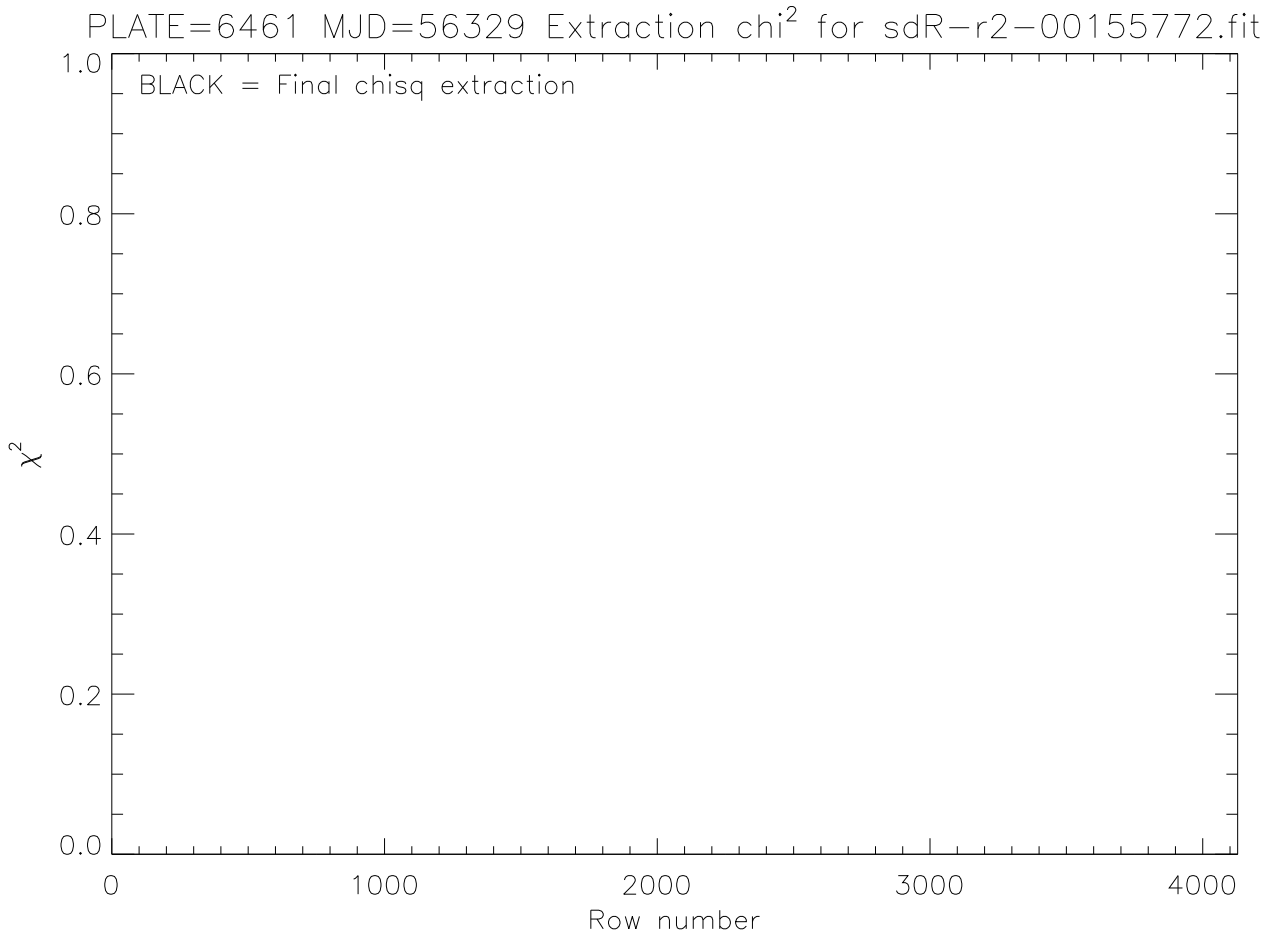
Number of sky fibers = 38

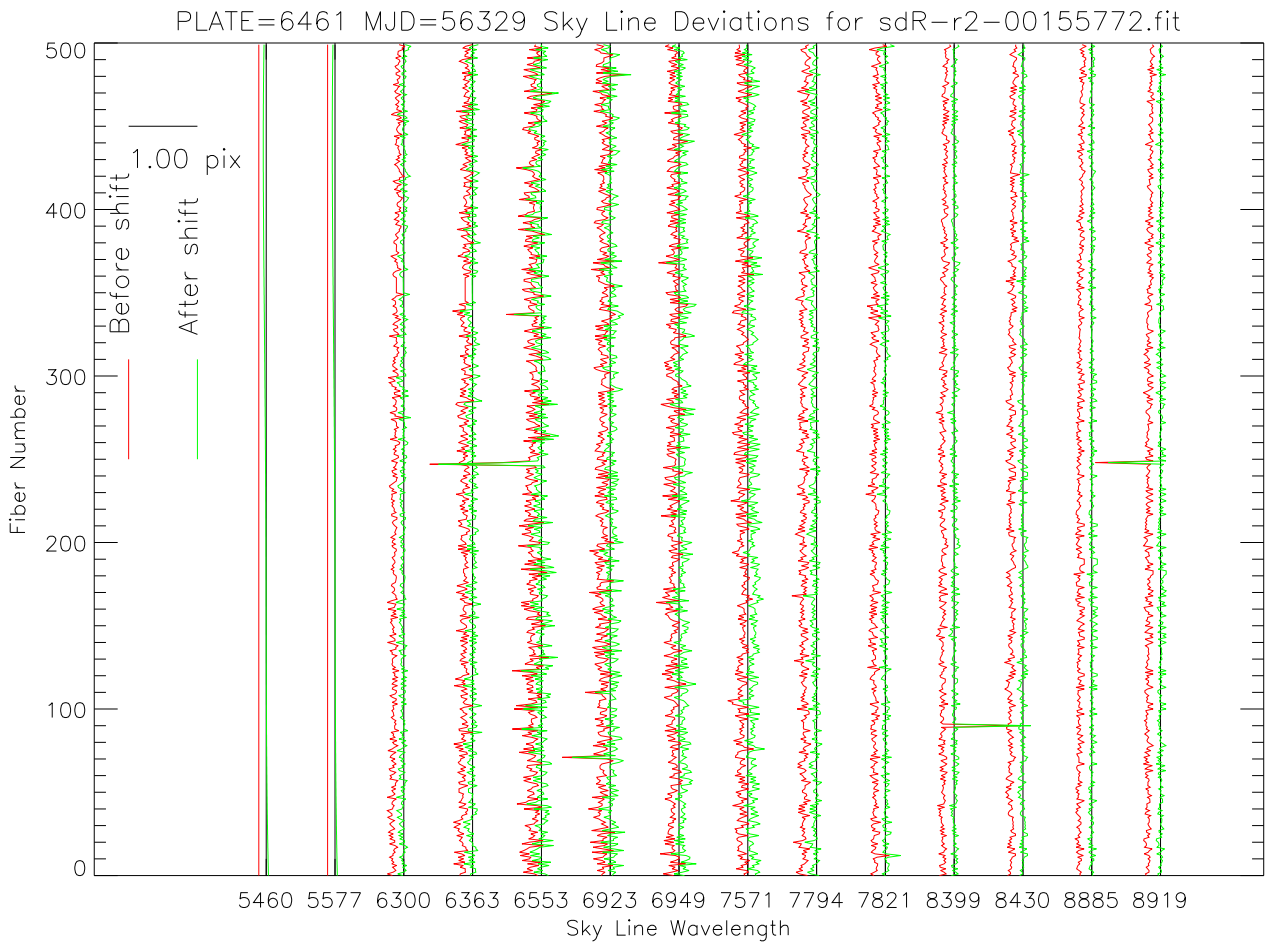


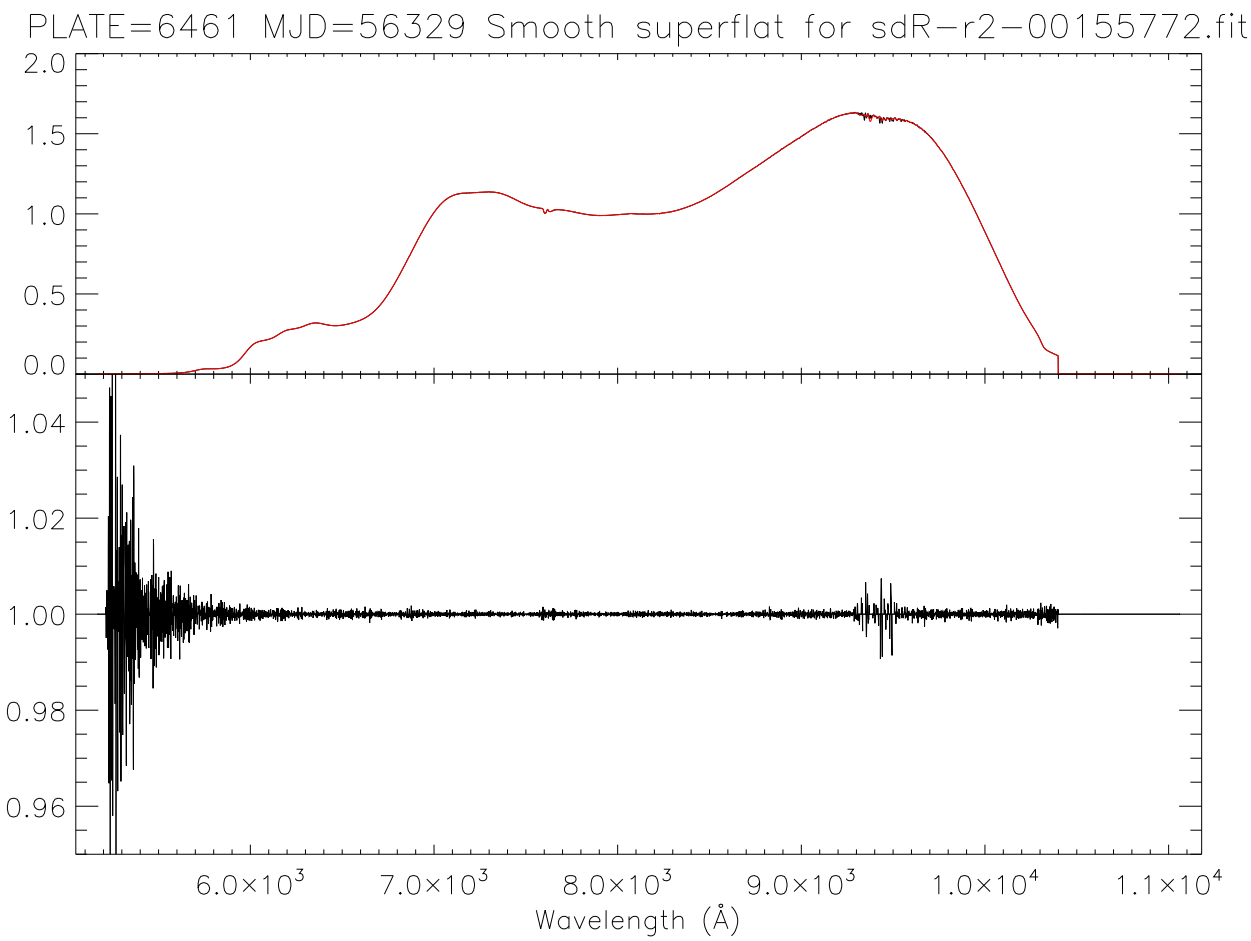

PLATE=6461 MJD=56329 sdR-r2-00155771.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 4.85 %
Fiber number
Focal Distance [mm]
Airmass

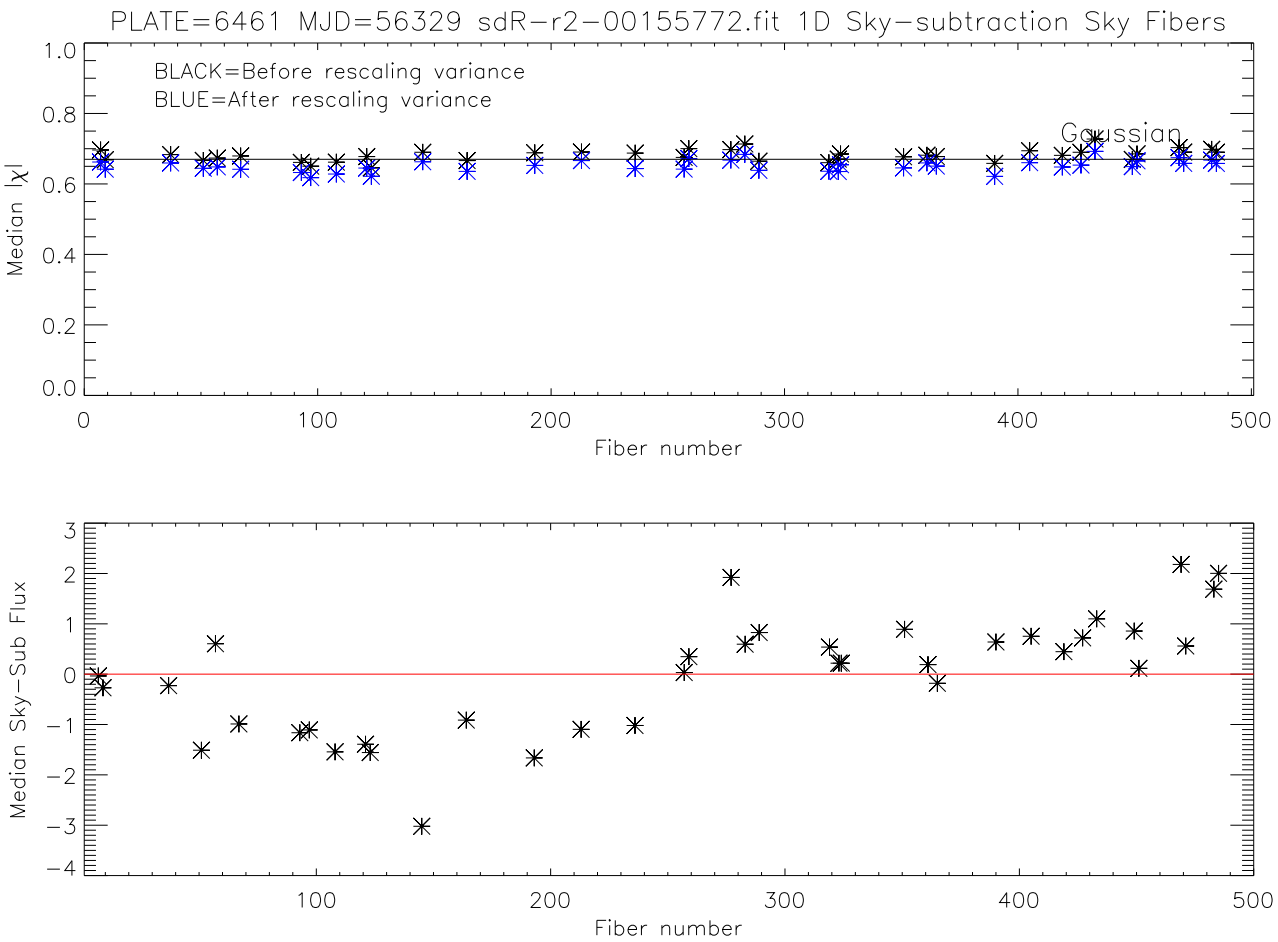

PLATE=6461 MJD=56329 sdR-r2-00155771.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED += sky fiber
Dispersion = 2.26 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

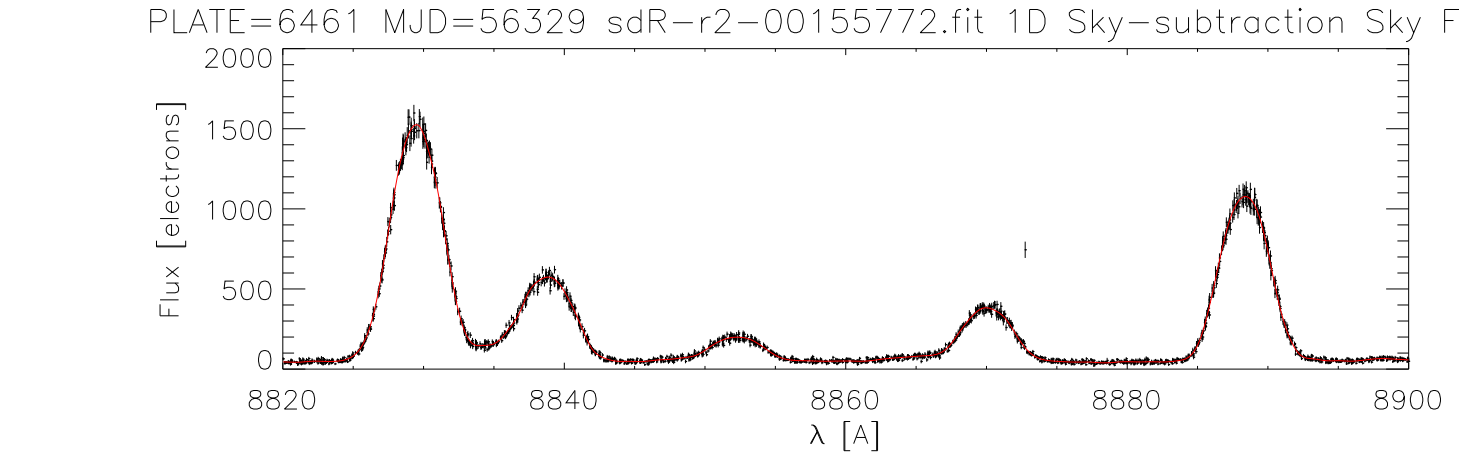

PLATE=6461 MJD=56329 Fiber−Flats for sdR−r2−00155770.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −1.043
Max value = 5.245
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Sat May 28 12:36:12 2016

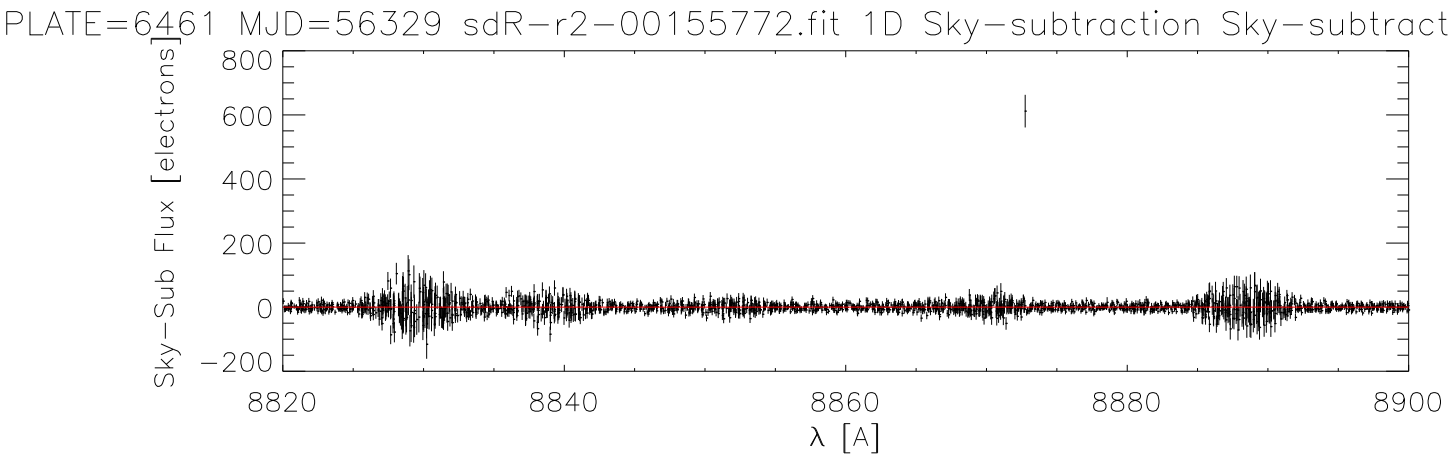

PLATE=6461 MJD=56329 Extraction chi^2 for sdR−r2−00155772.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=6461 MJD=56329 Sky Line Deviations for sdR-r2-00155772.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

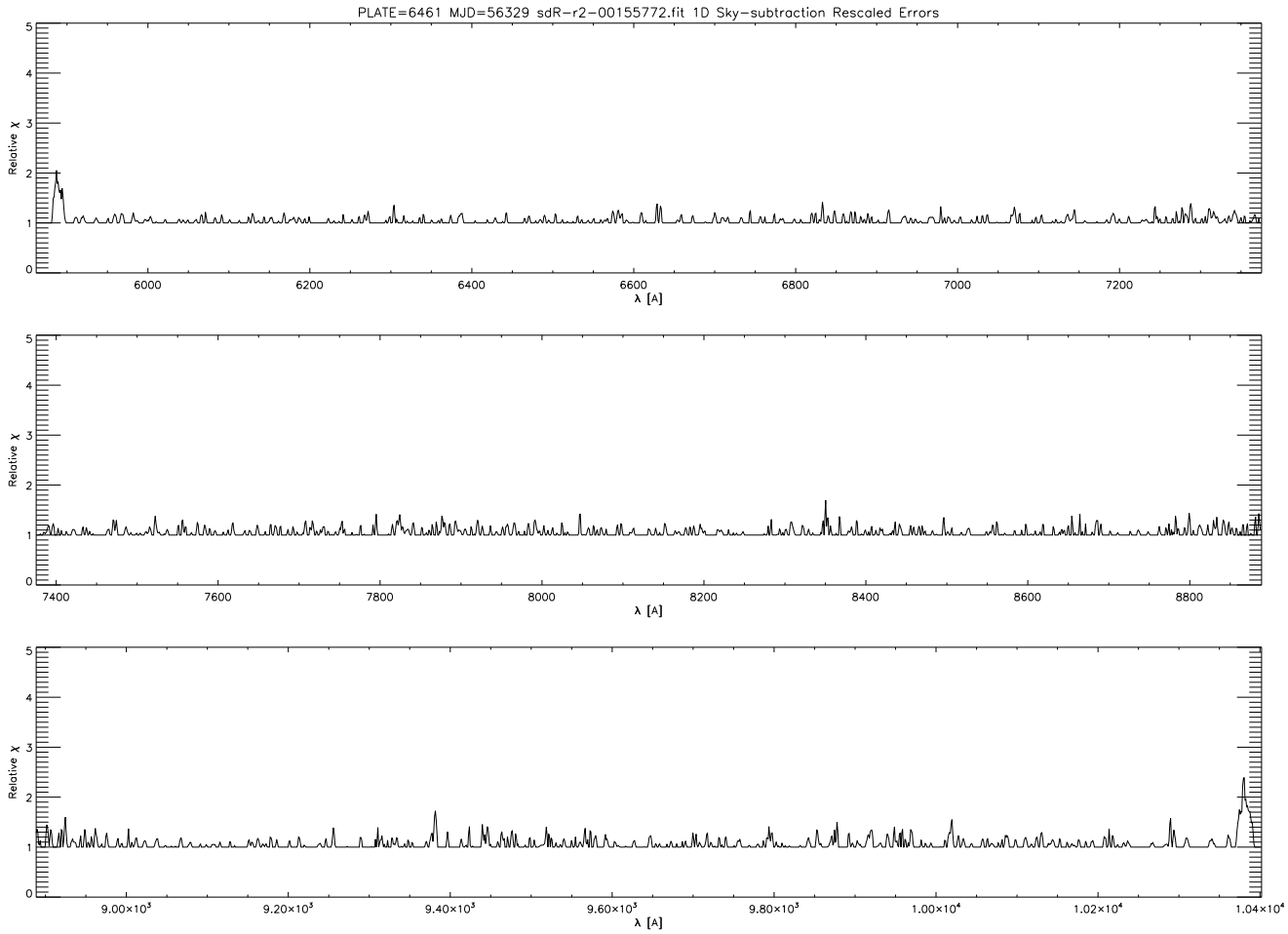

PLATE=6461 MJD=56329 Smooth superflat for sdR-r2-00155772.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

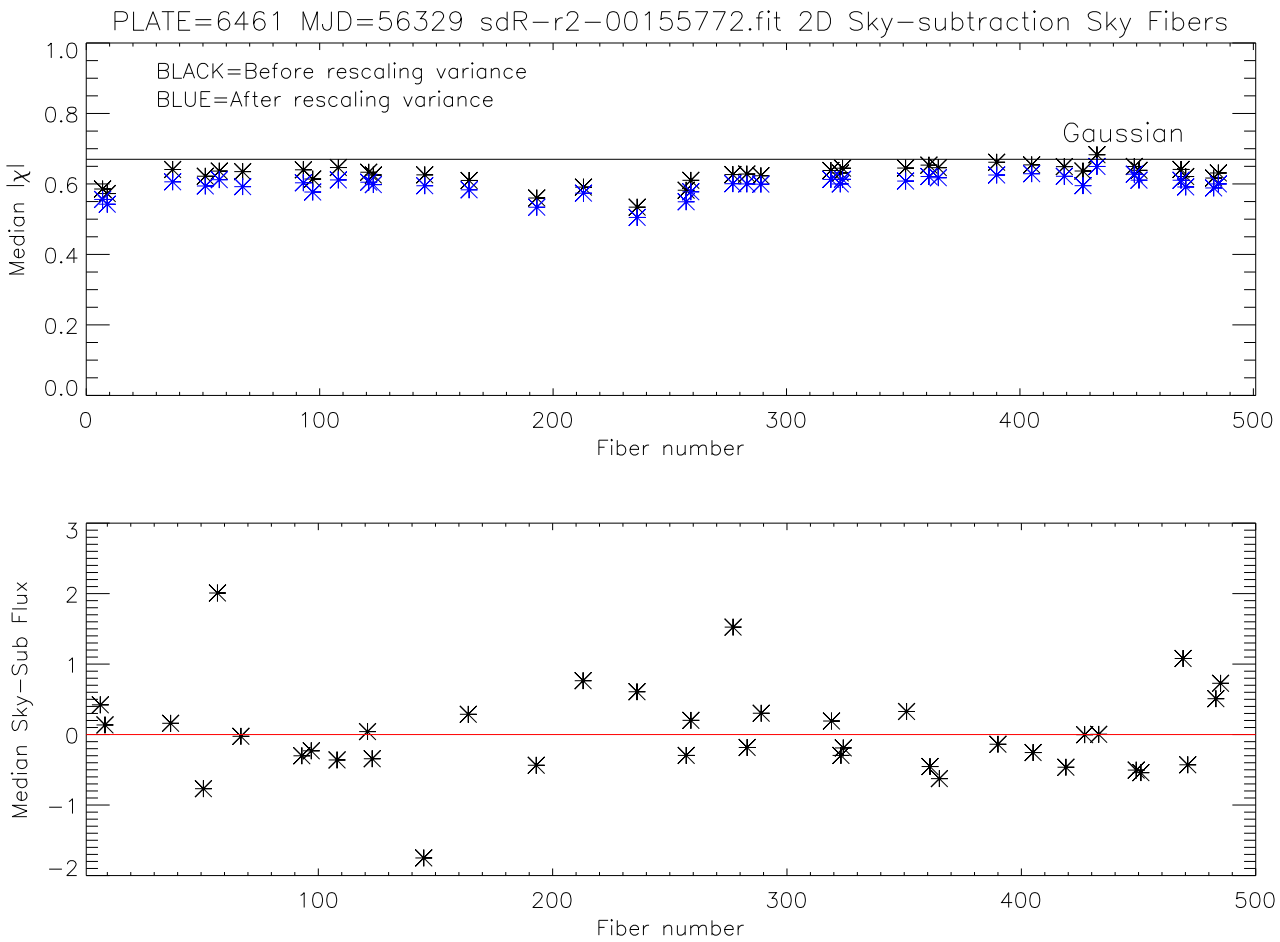

PLATE=6461 MJD=56329 sdR-r2-00155772.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

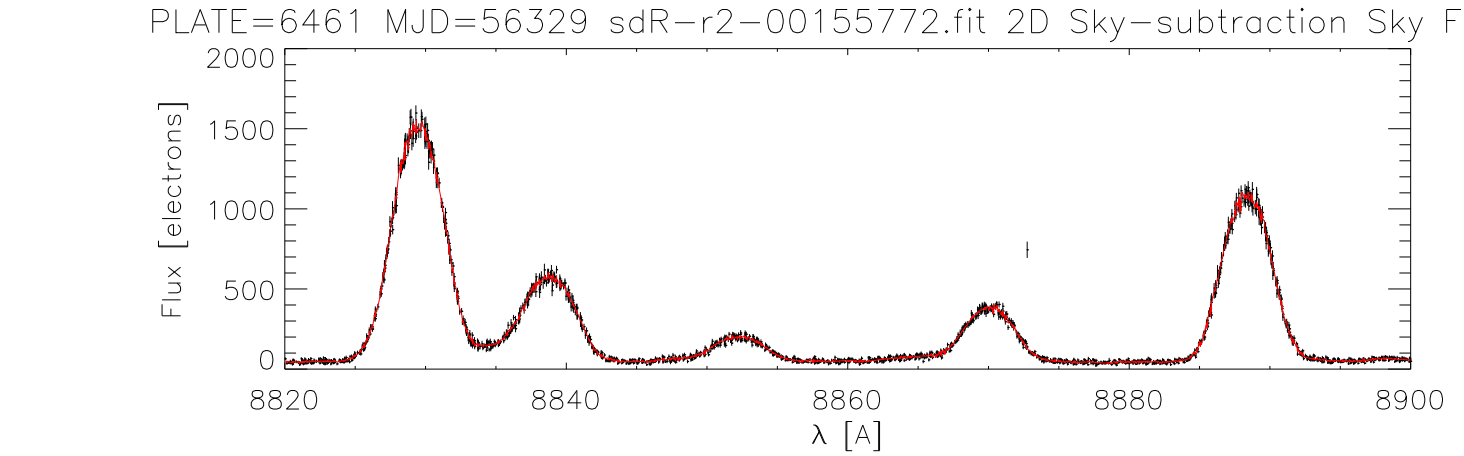

PLATE=6461 MJD=56329 sdR-r2-00155772.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

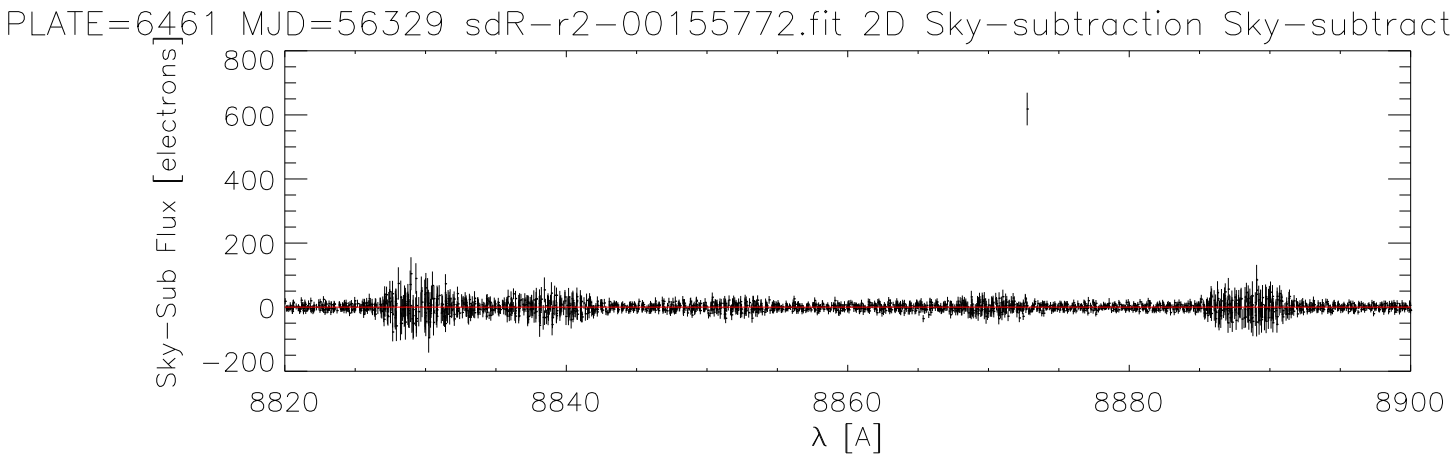

PLATE=6461 MJD=56329 sdR-r2-00155772.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 38

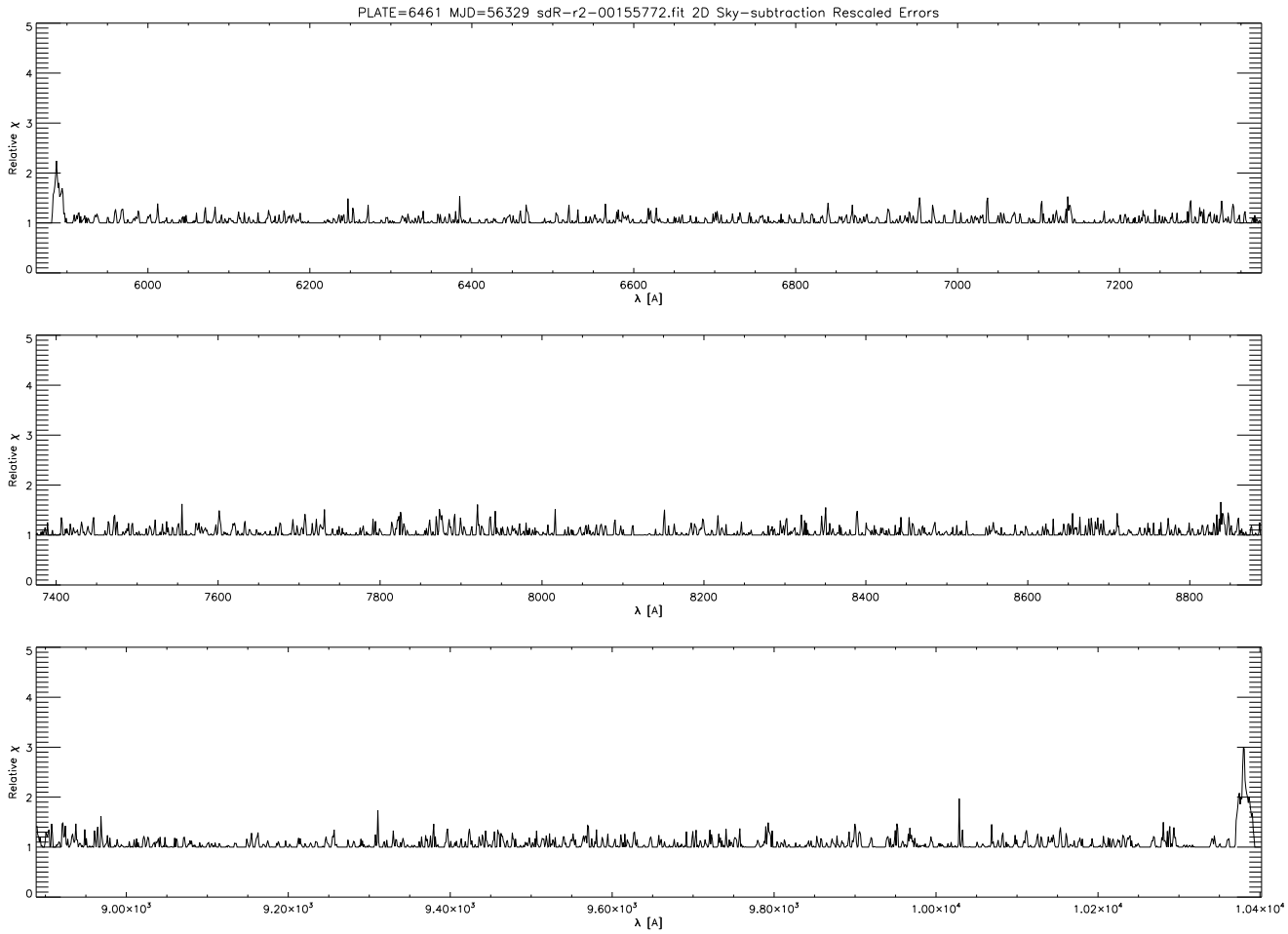


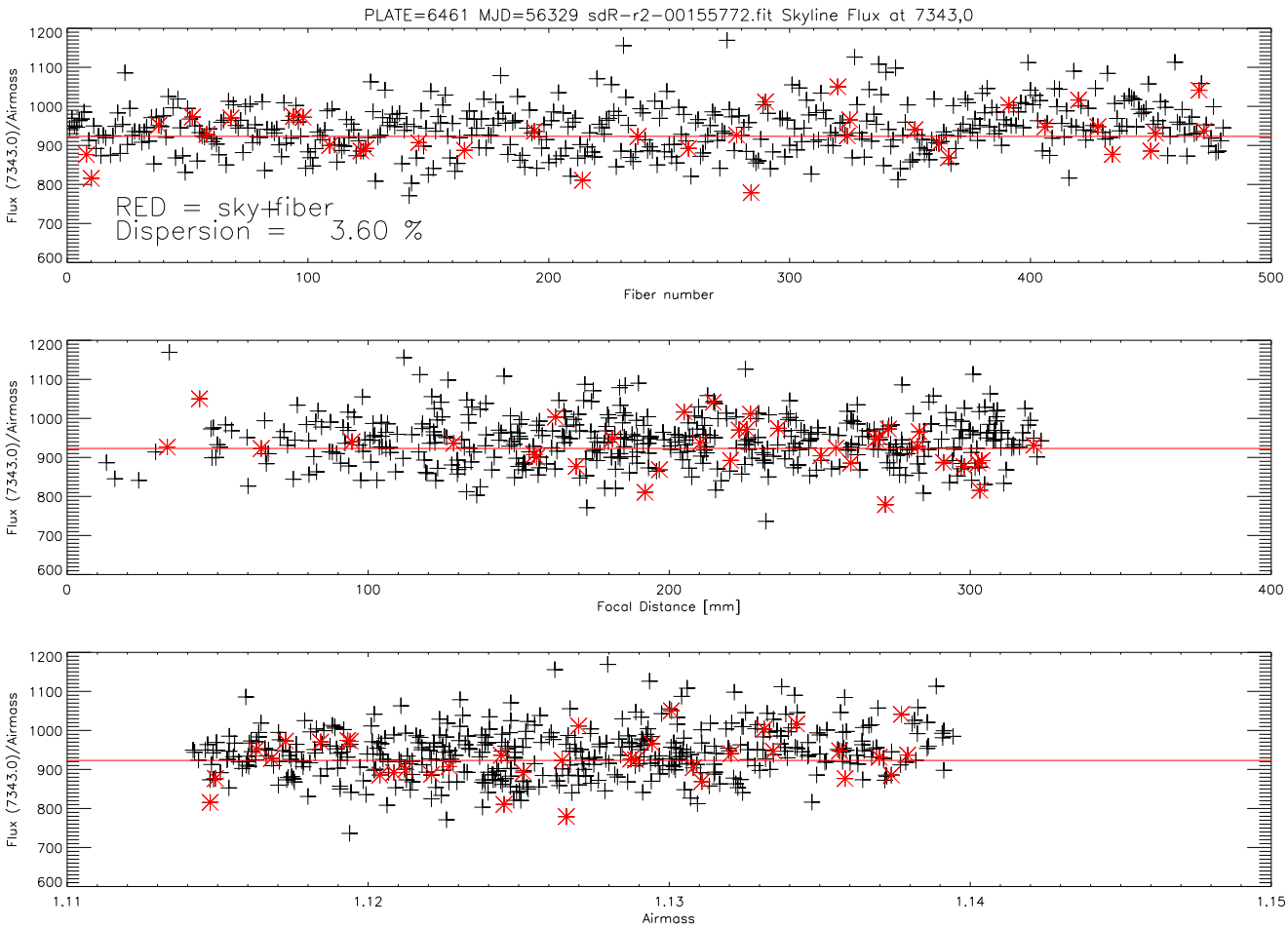

PLATE=6461 MJD=56329 sdR-r2-00155772.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

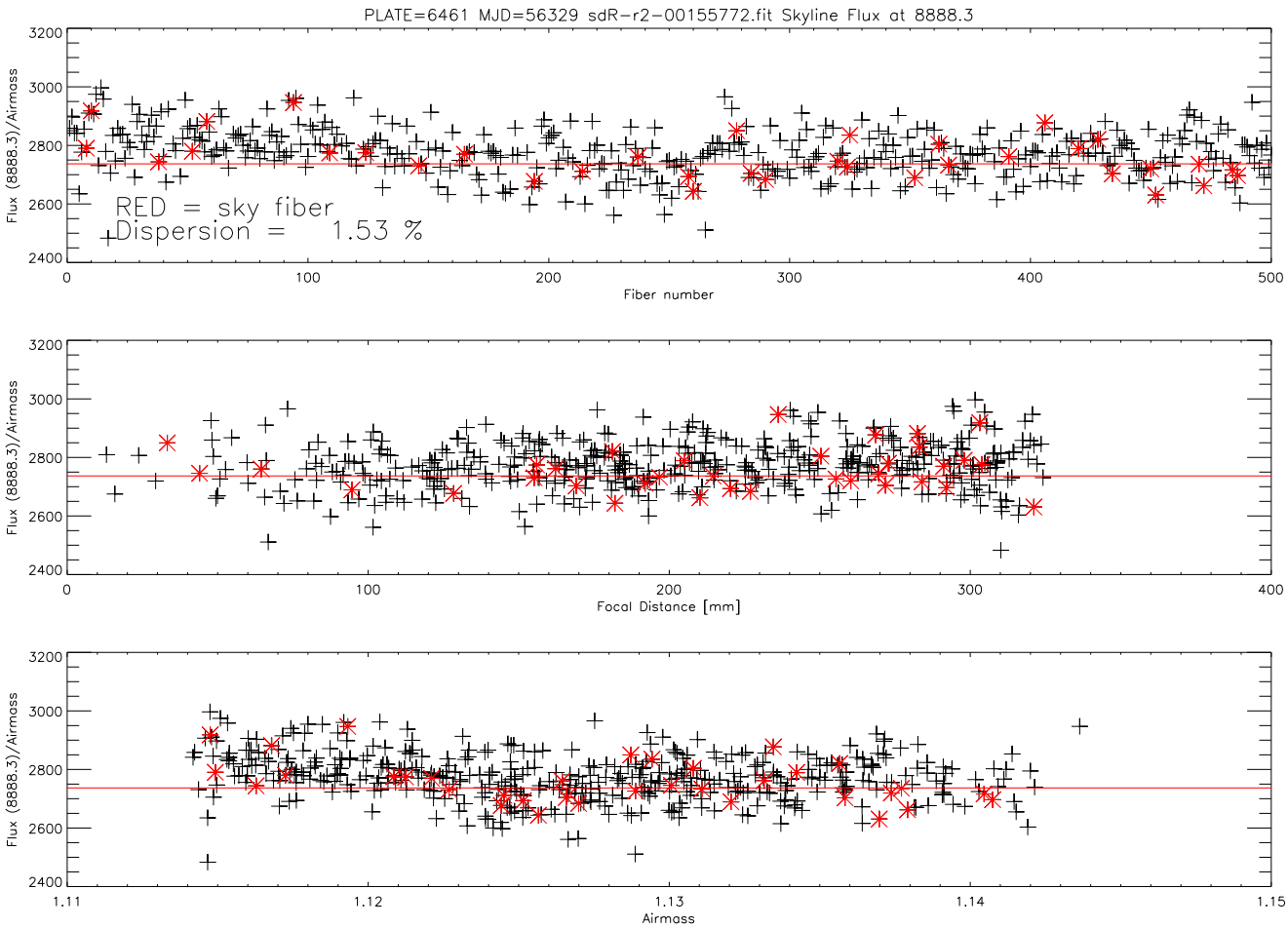

PLATE=6461 MJD=56329 sdR-r2-00155772.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

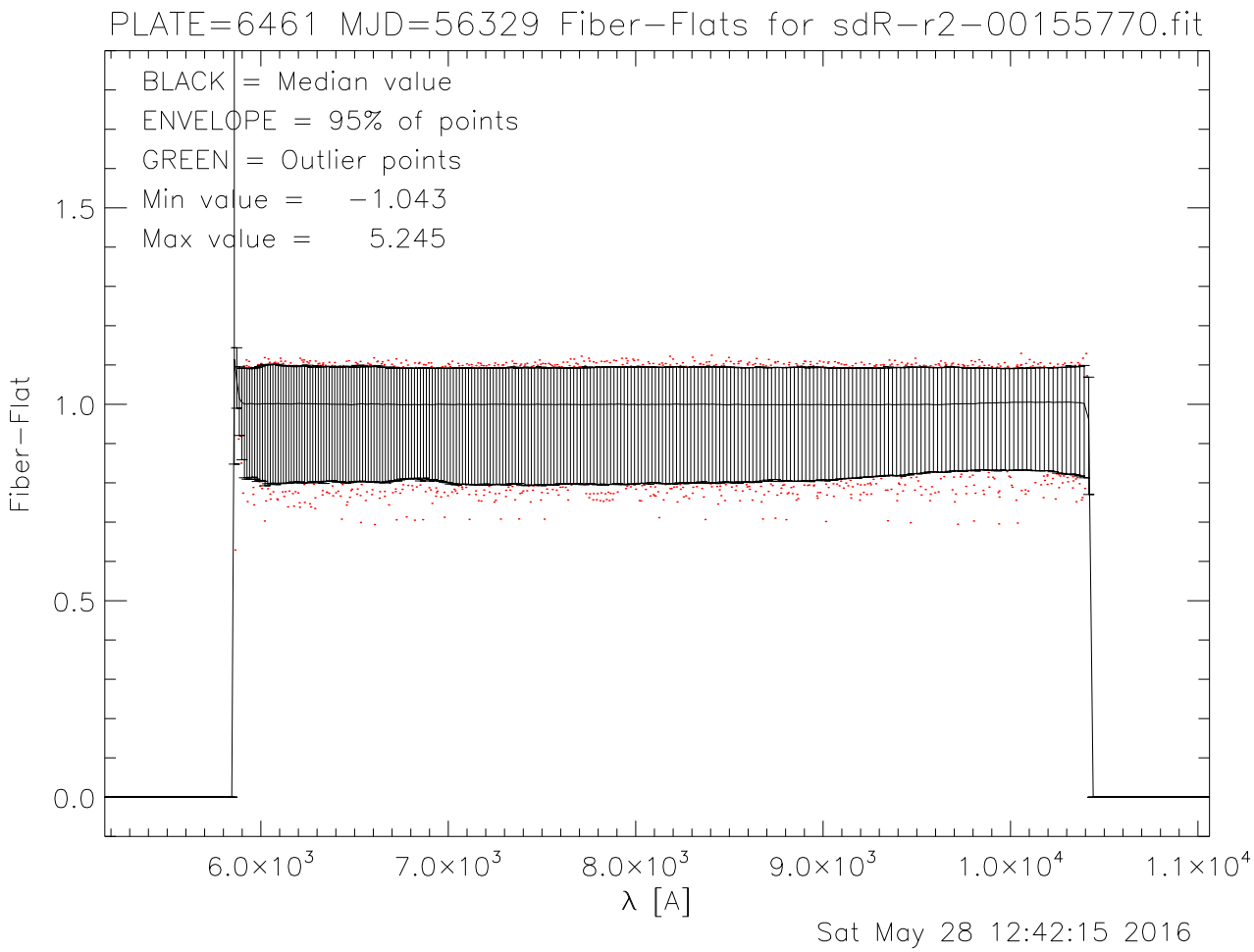

PLATE=6461 MJD=56329 sdR-r2-00155772.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

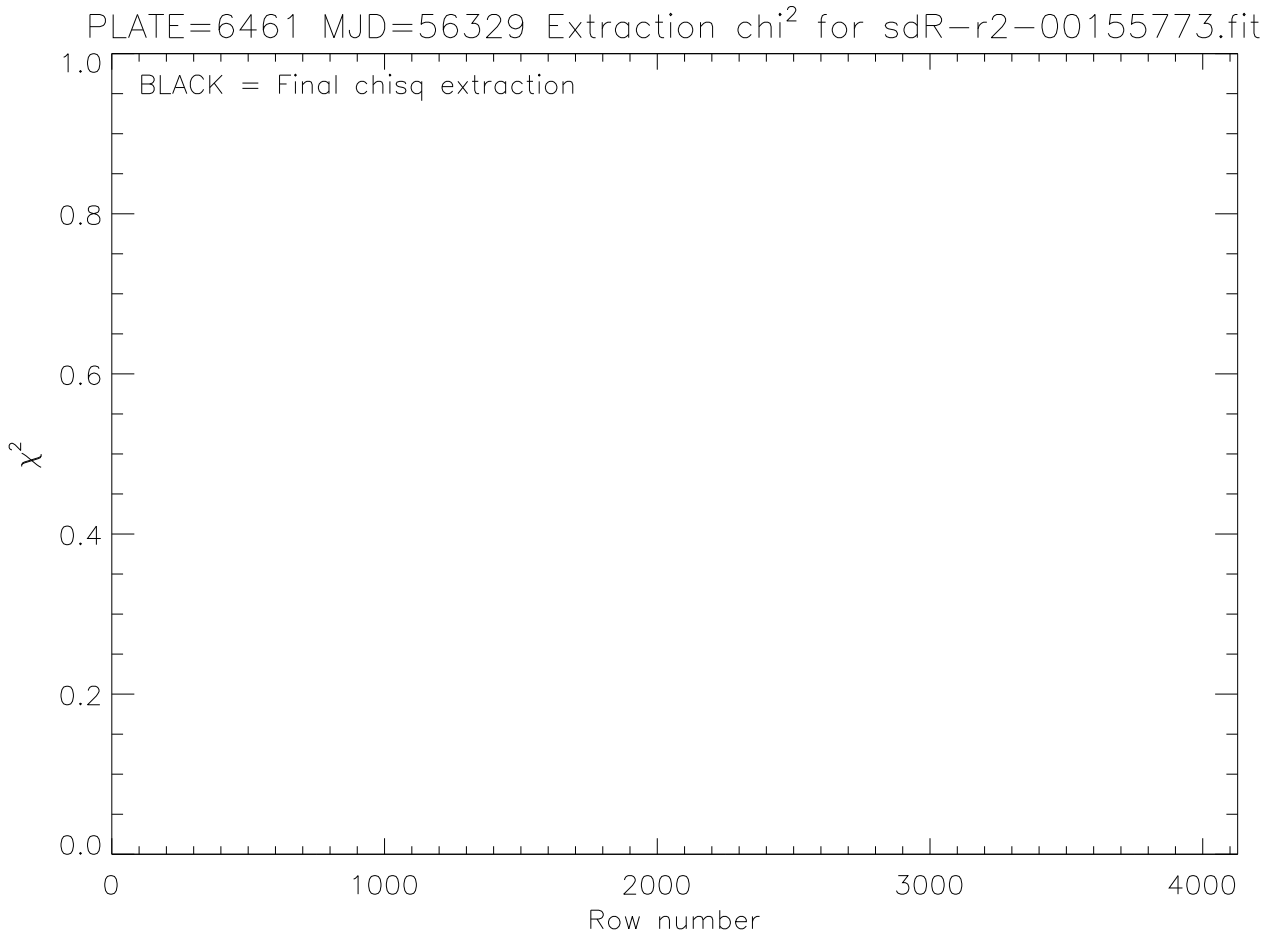
Number of sky fibers = 38

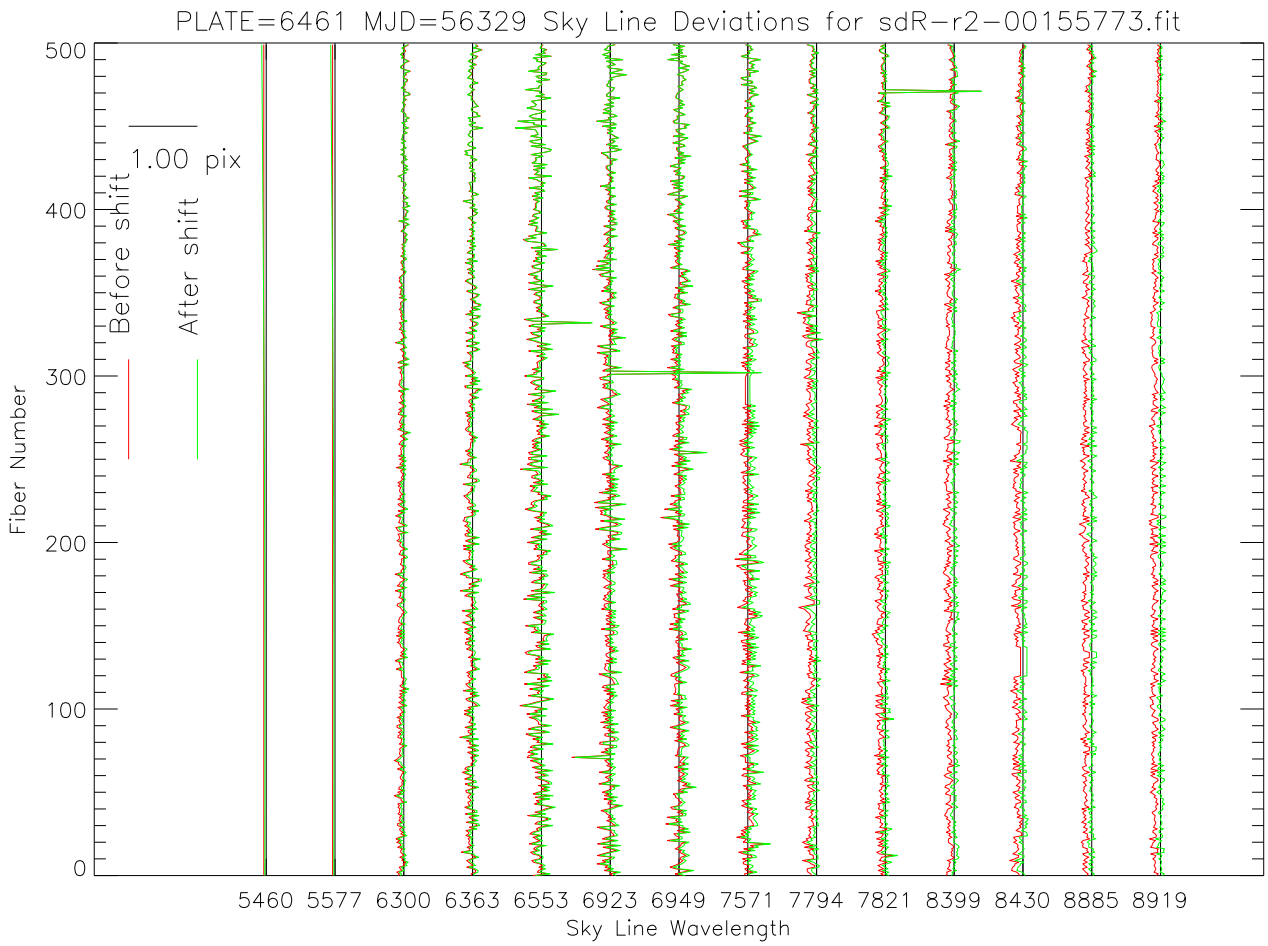


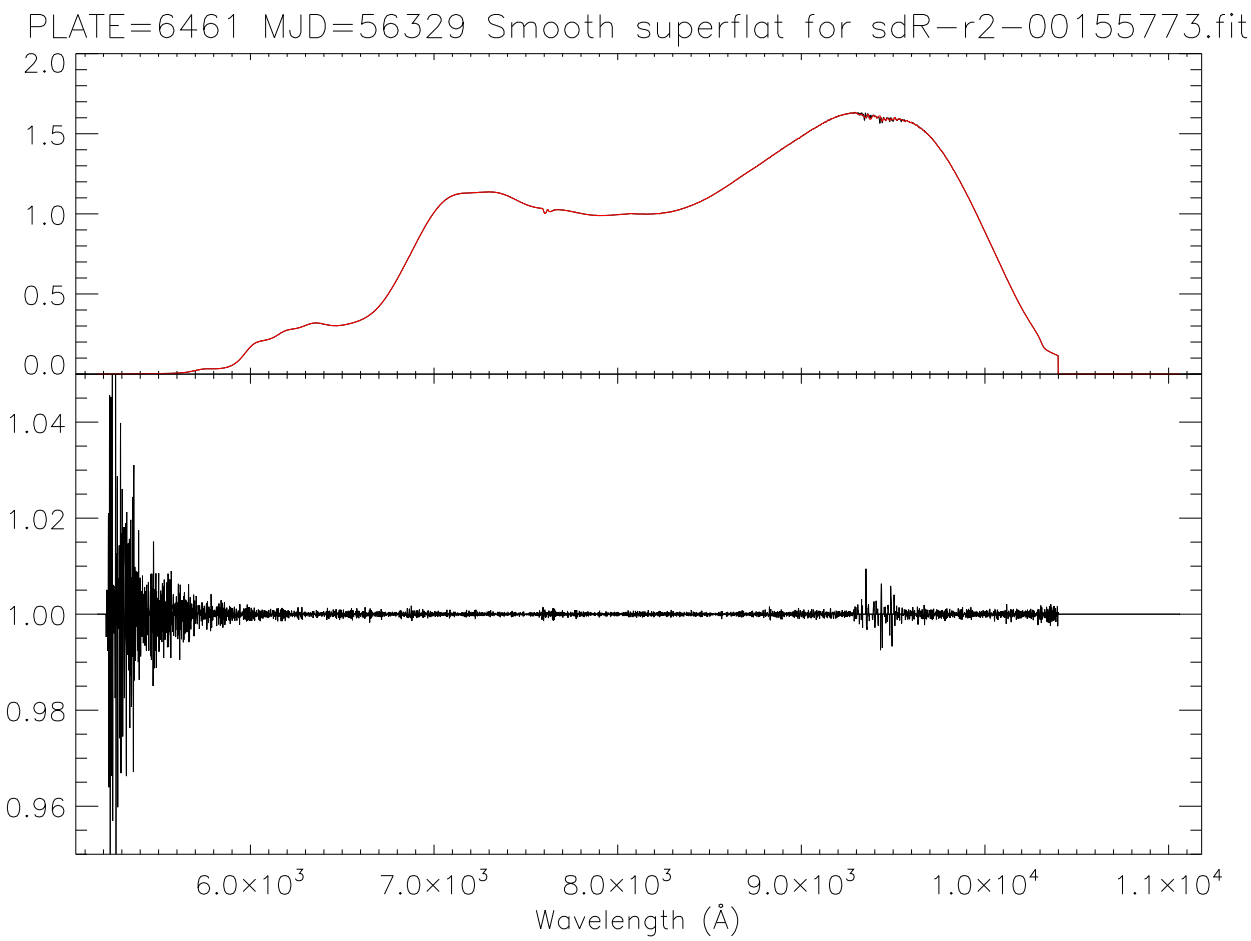

PLATE=6461 MJD=56329 sdR-r2-00155772.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky+fiber
Dispersion = 3.60 %
Fiber number
Focal Distance [mm]
Airmass

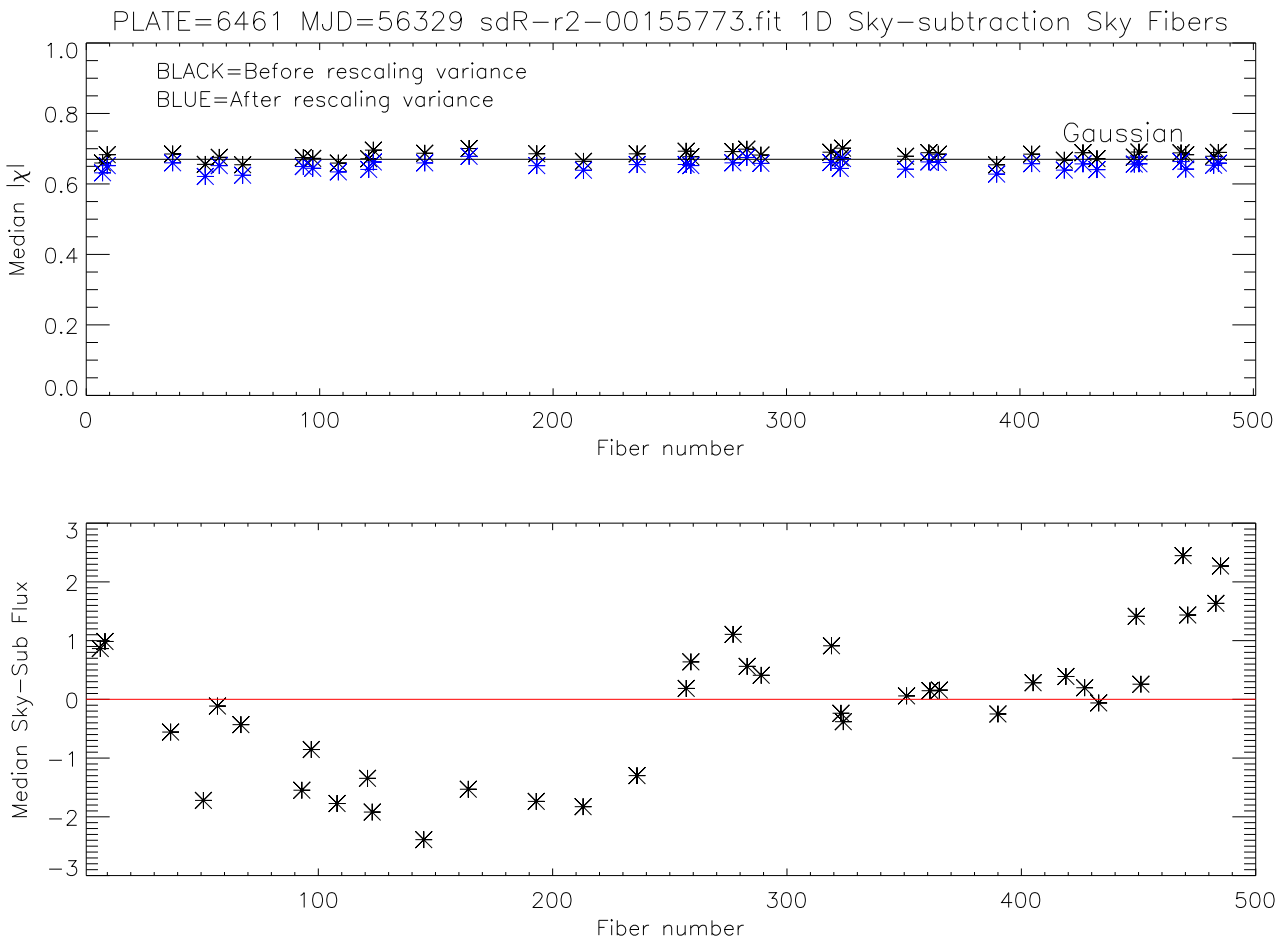

PLATE=6461 MJD=56329 sdR-r2-00155772.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.53 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

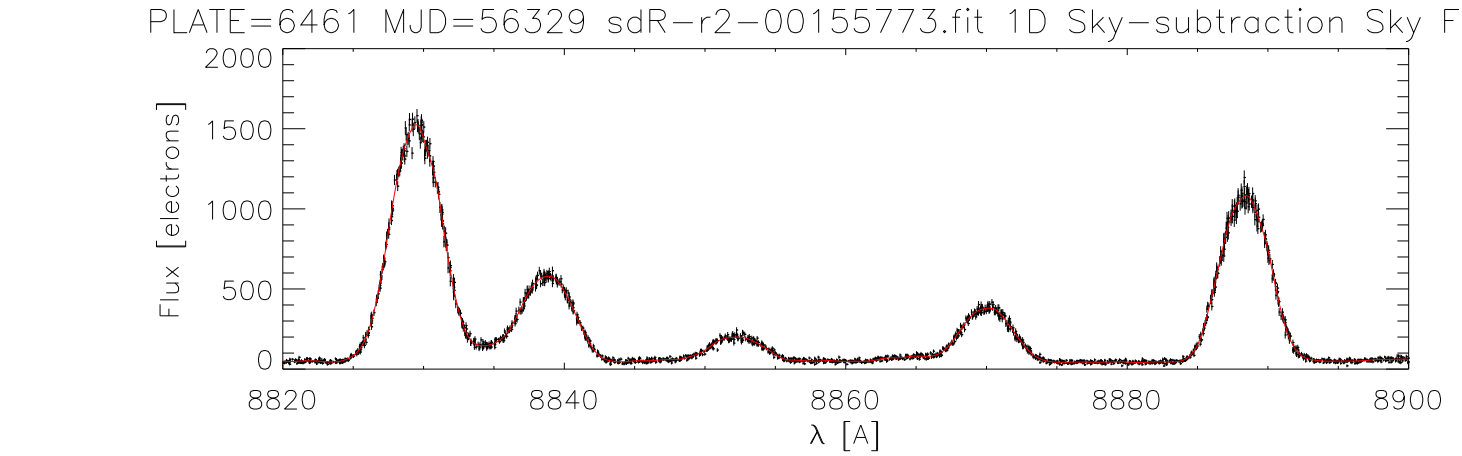

PLATE=6461 MJD=56329 Fiber−Flats for sdR−r2−00155770.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −1.043
Max value = 5.245
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Sat May 28 12:42:15 2016

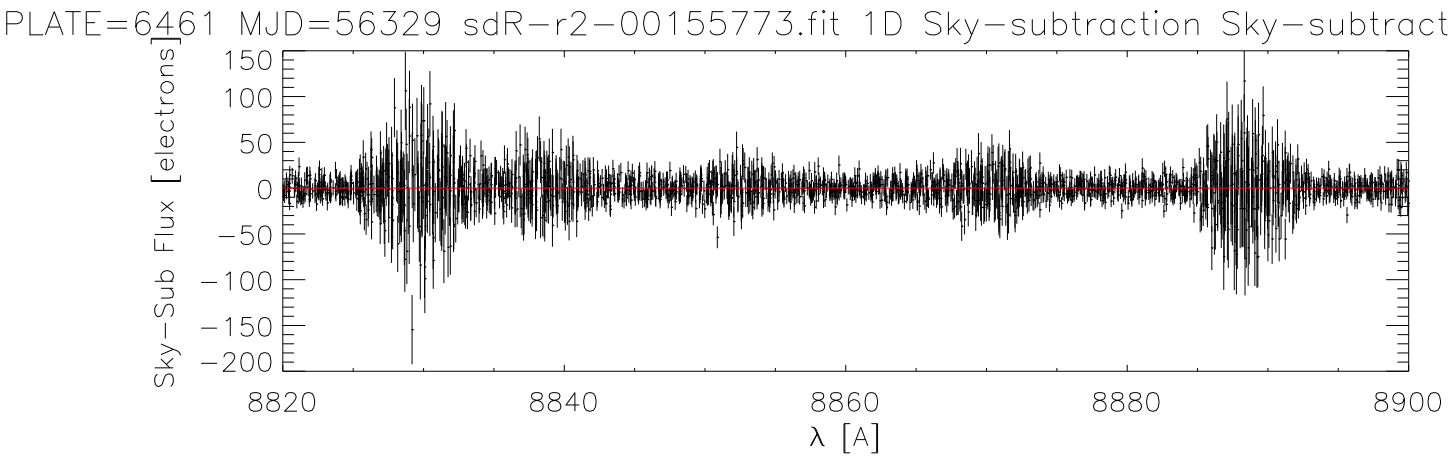

PLATE=6461 MJD=56329 Extraction chi^2 for sdR−r2−00155773.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=6461 MJD=56329 Sky Line Deviations for sdR-r2-00155773.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

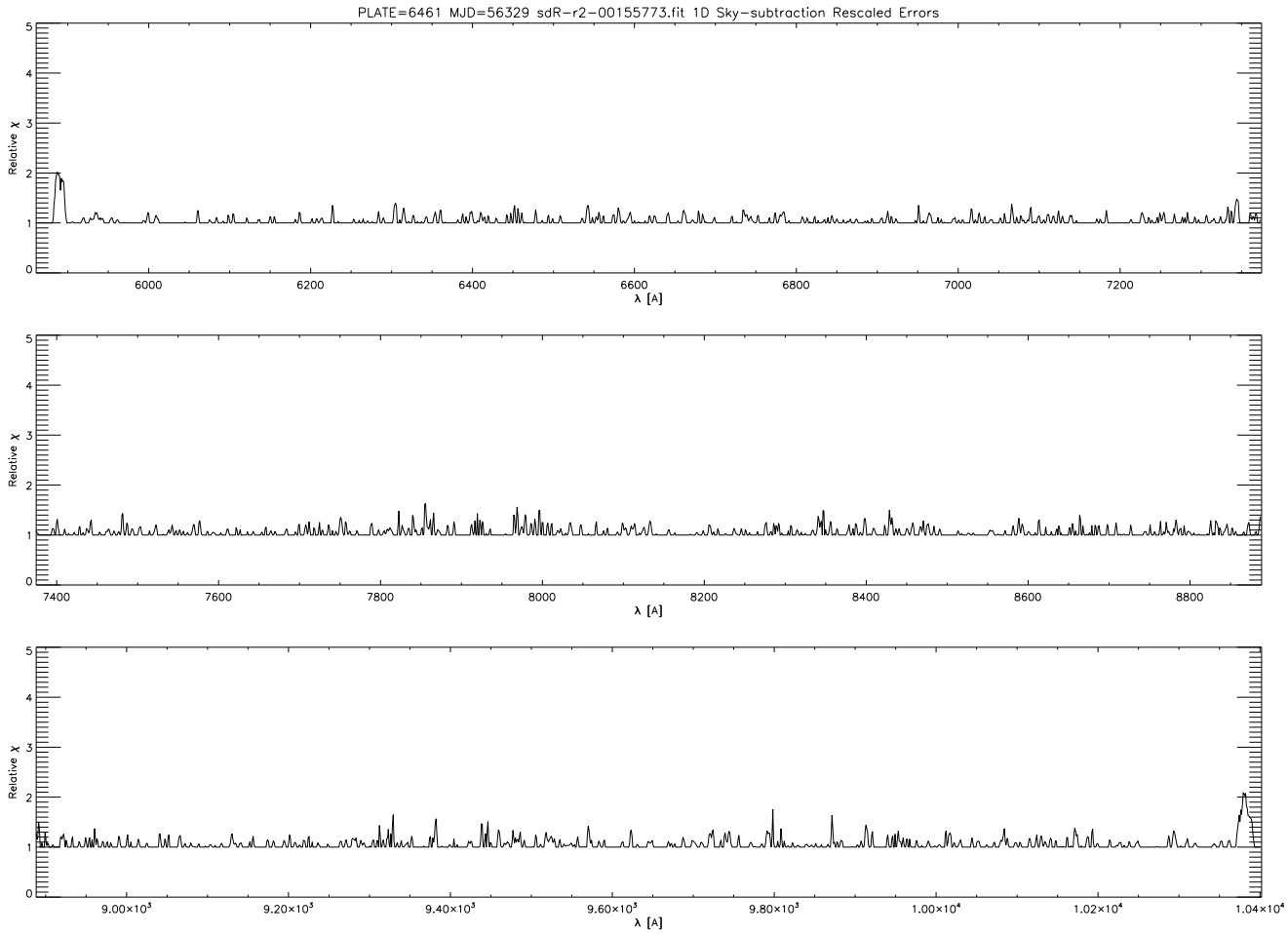

PLATE=6461 MJD=56329 Smooth superflat for sdR-r2-00155773.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

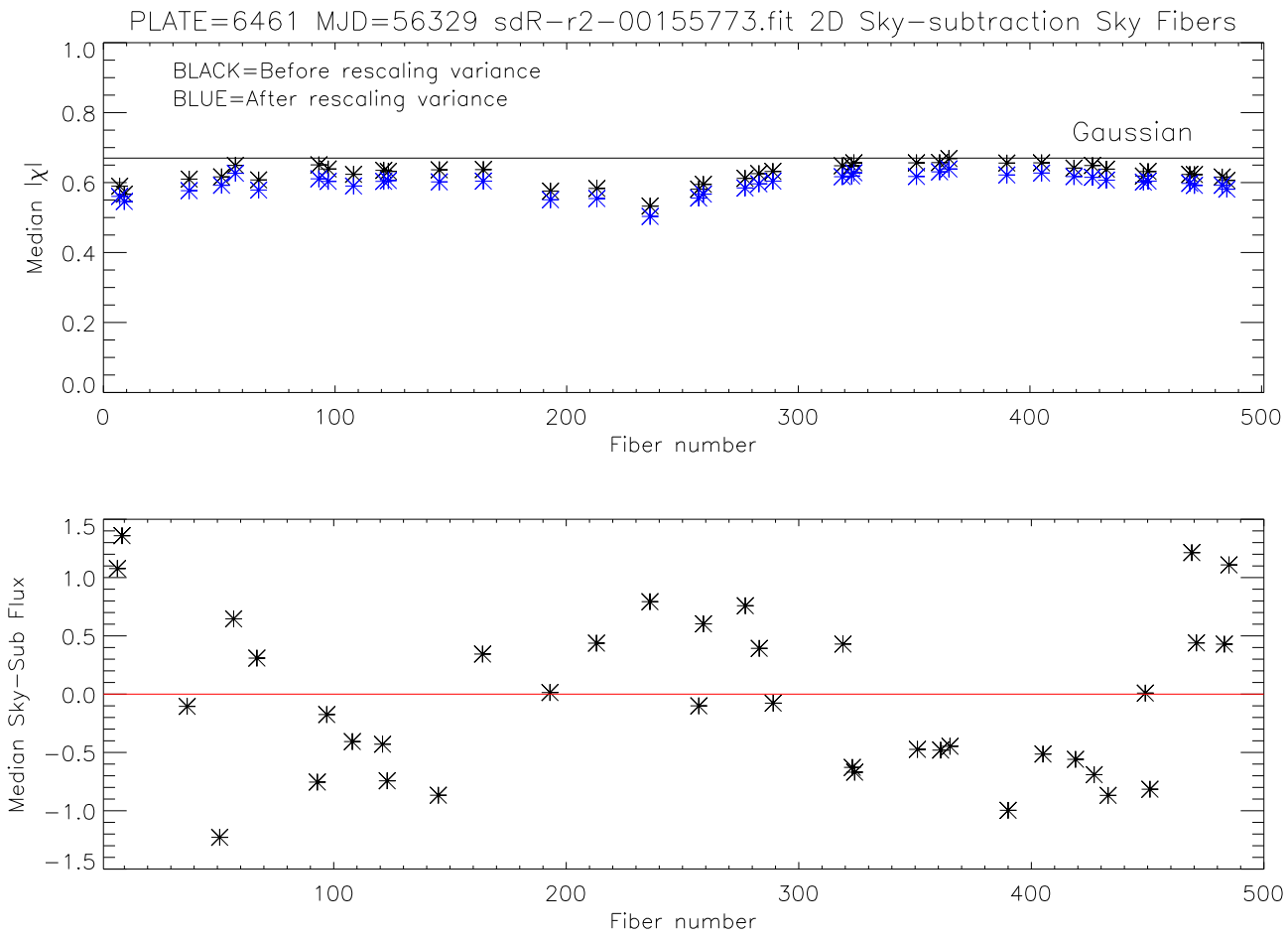

PLATE=6461 MJD=56329 sdR-r2-00155773.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

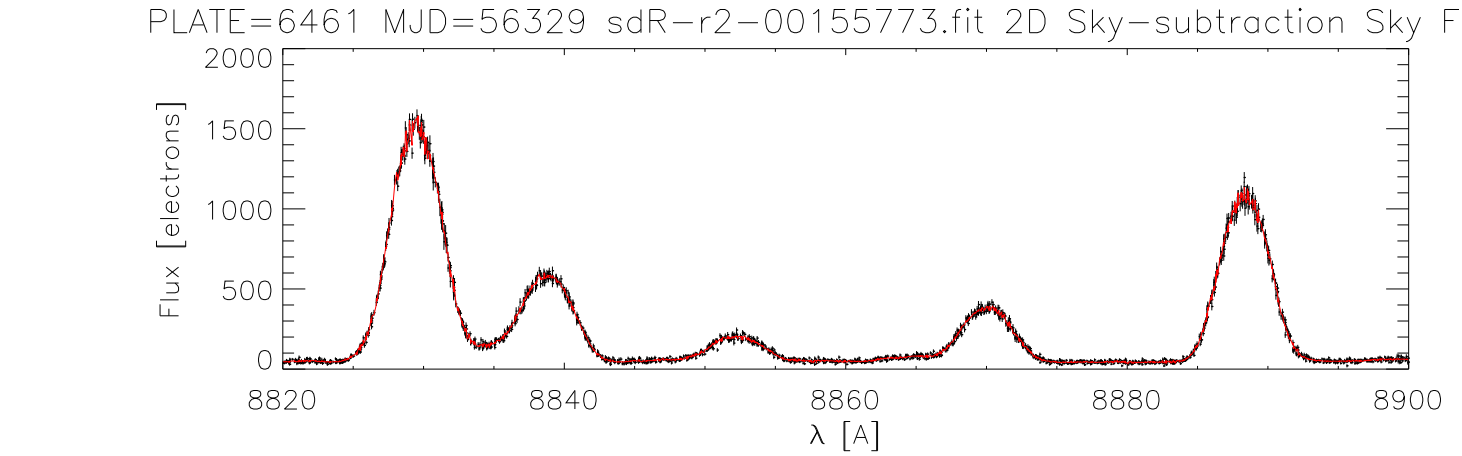

PLATE=6461 MJD=56329 sdR-r2-00155773.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

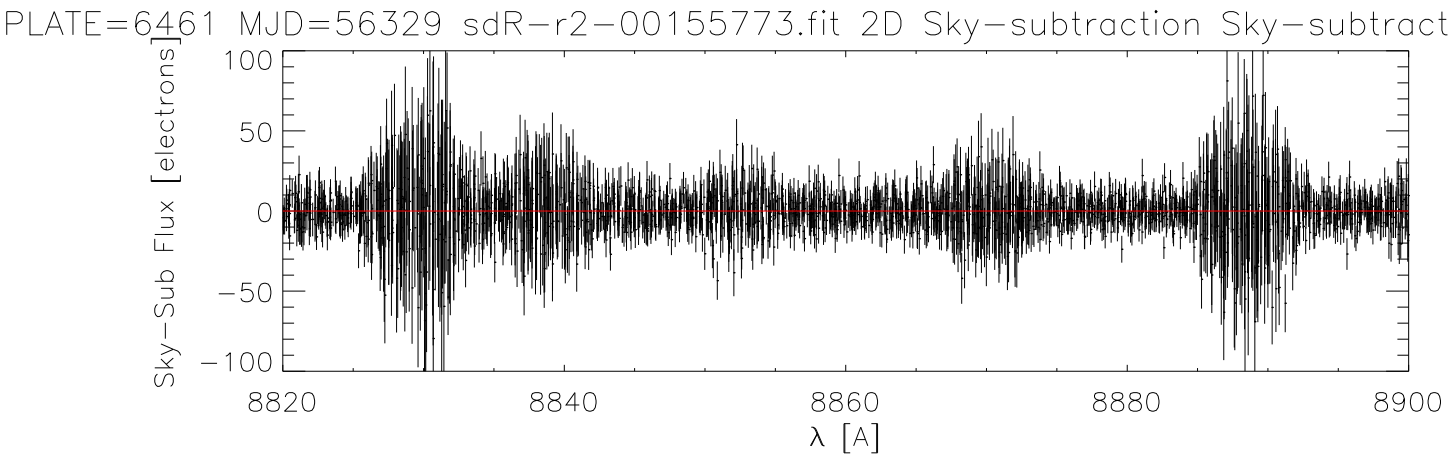

PLATE=6461 MJD=56329 sdR-r2-00155773.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
-200
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 38

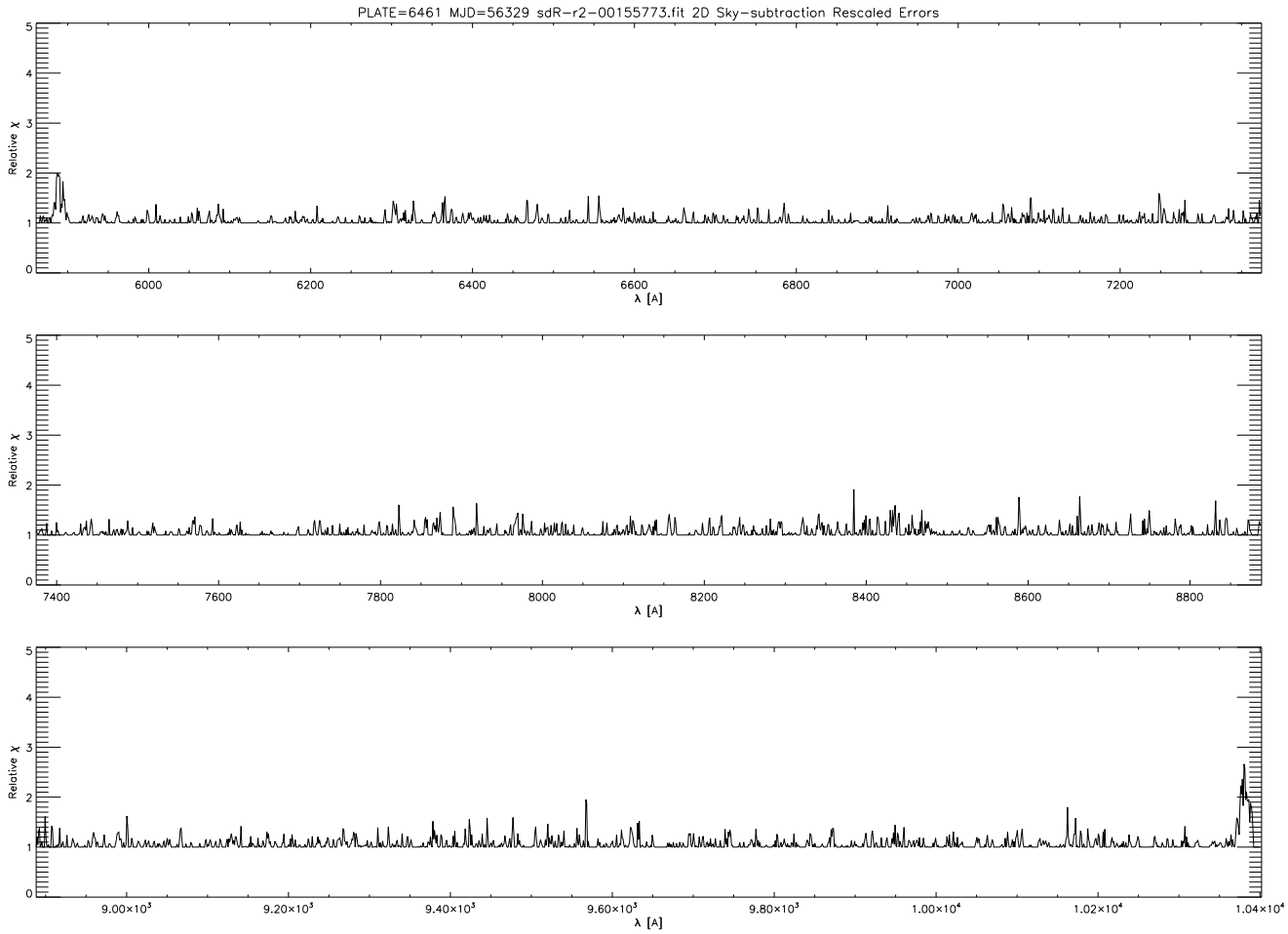


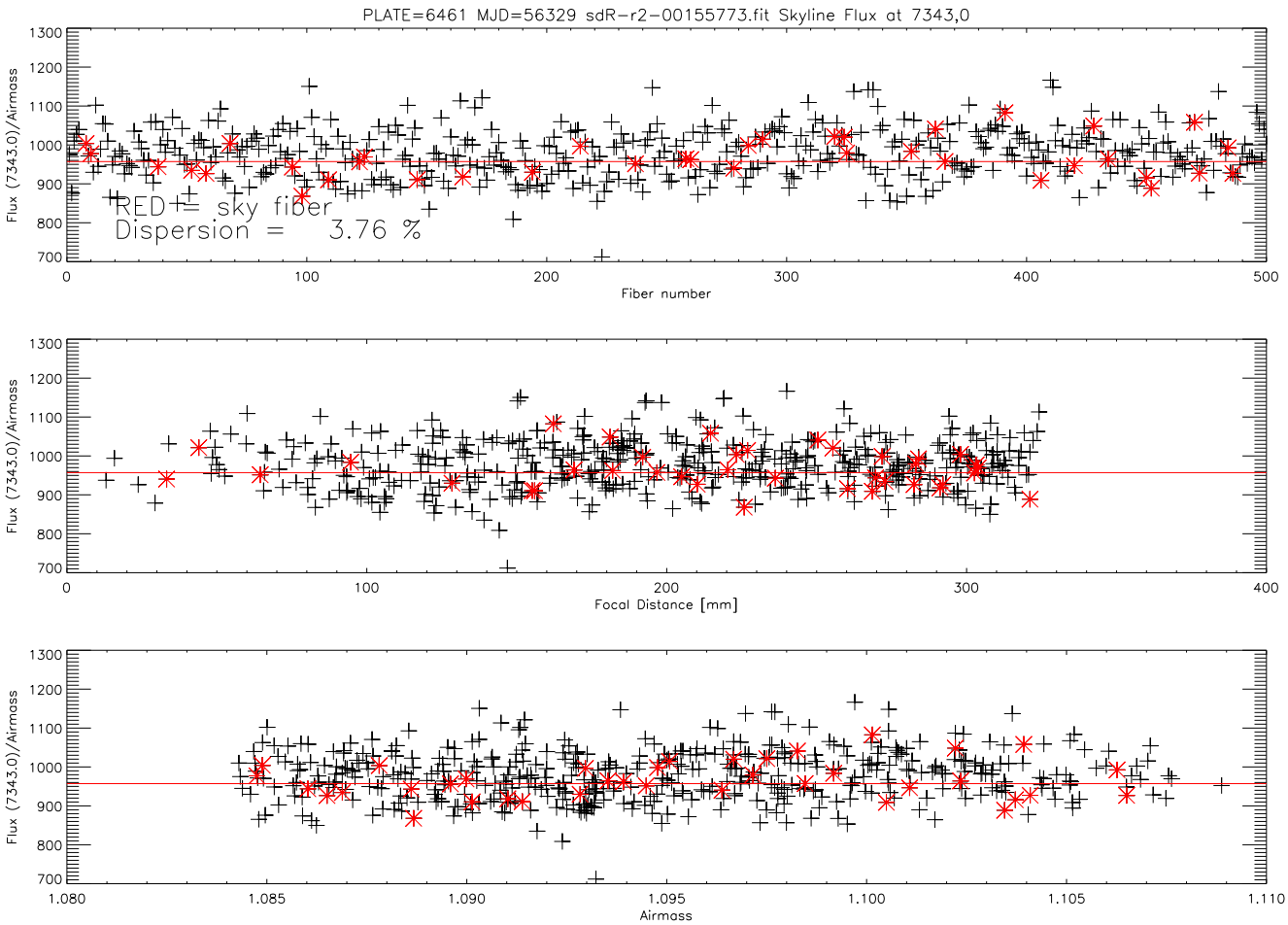

PLATE=6461 MJD=56329 sdR-r2-00155773.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

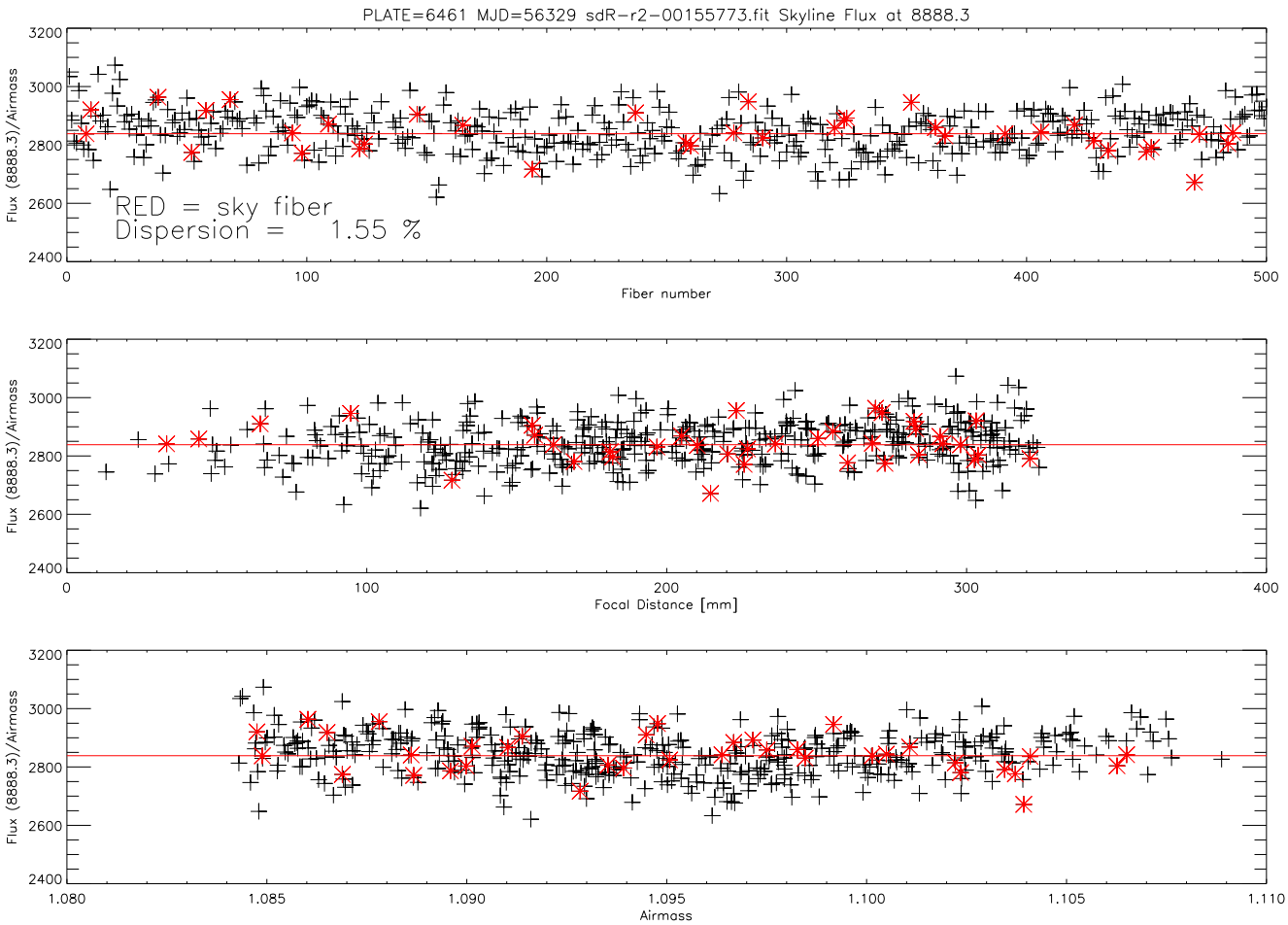

PLATE=6461 MJD=56329 sdR-r2-00155773.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]


PLATE=6461 MJD=56329 sdR-r2-00155773.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 38




PLATE=6461 MJD=56329 sdR-r2-00155773.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.76 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass


PLATE=6461 MJD=56329 sdR-r2-00155773.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.55 %
Fiber number
Focal Distance [mm]
Airmass