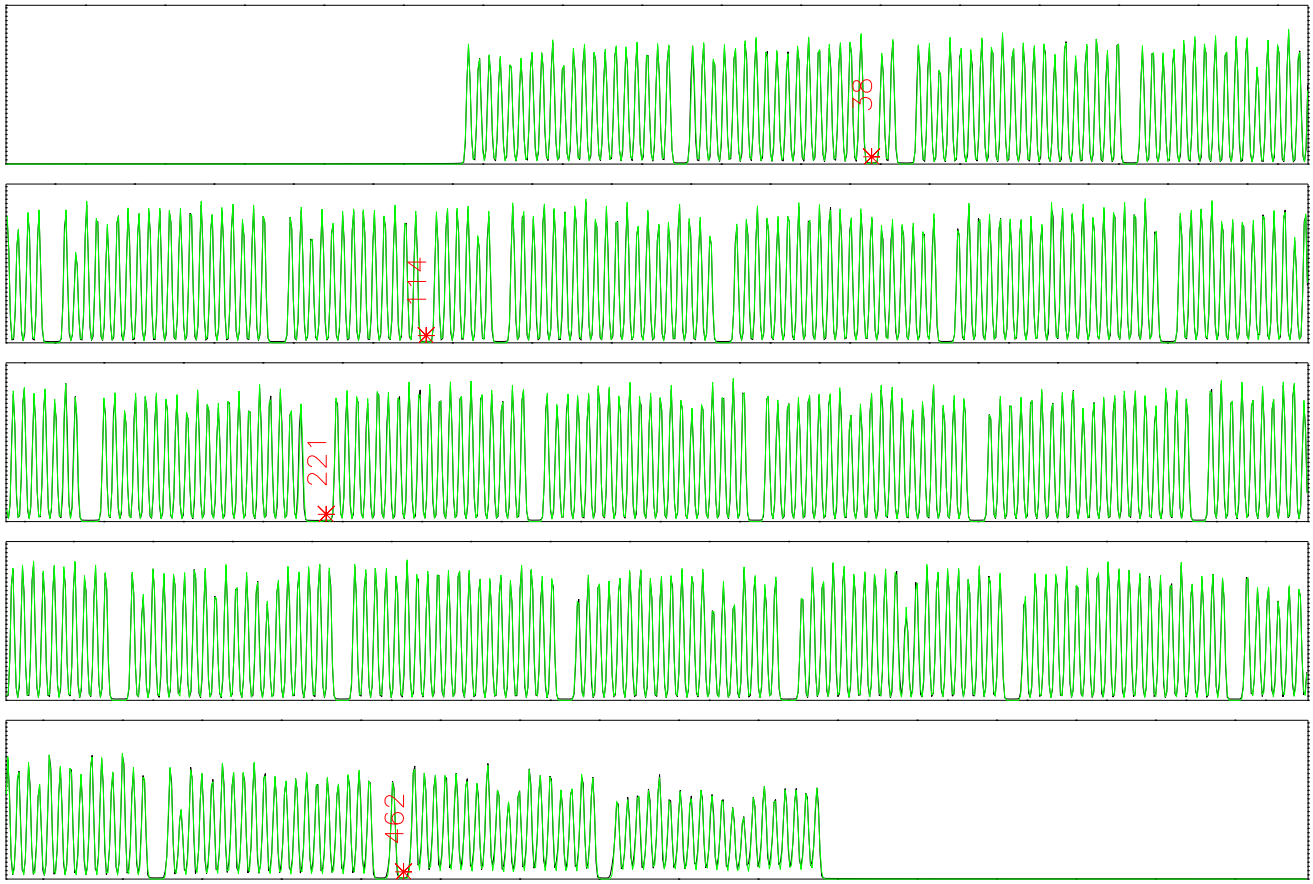
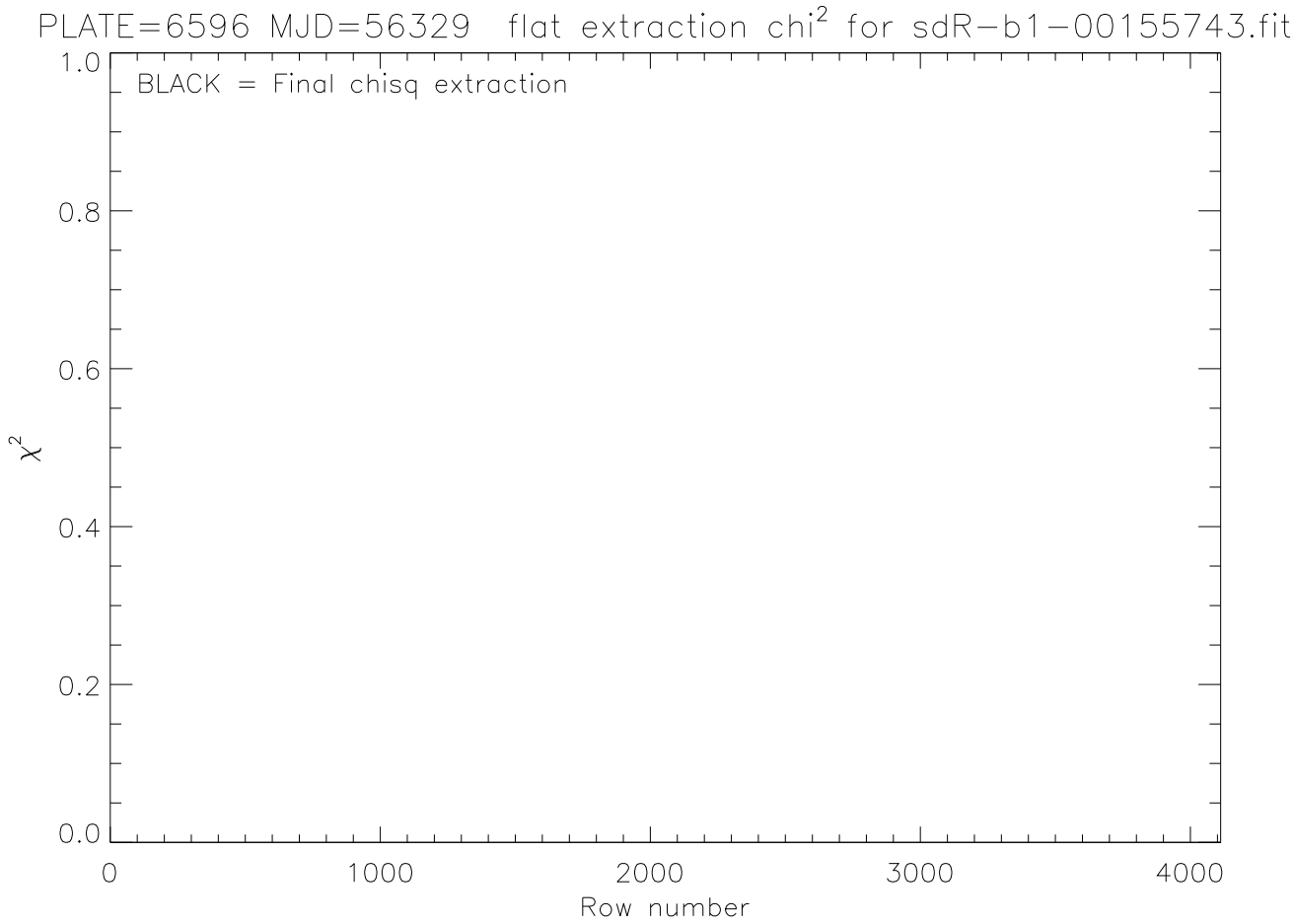
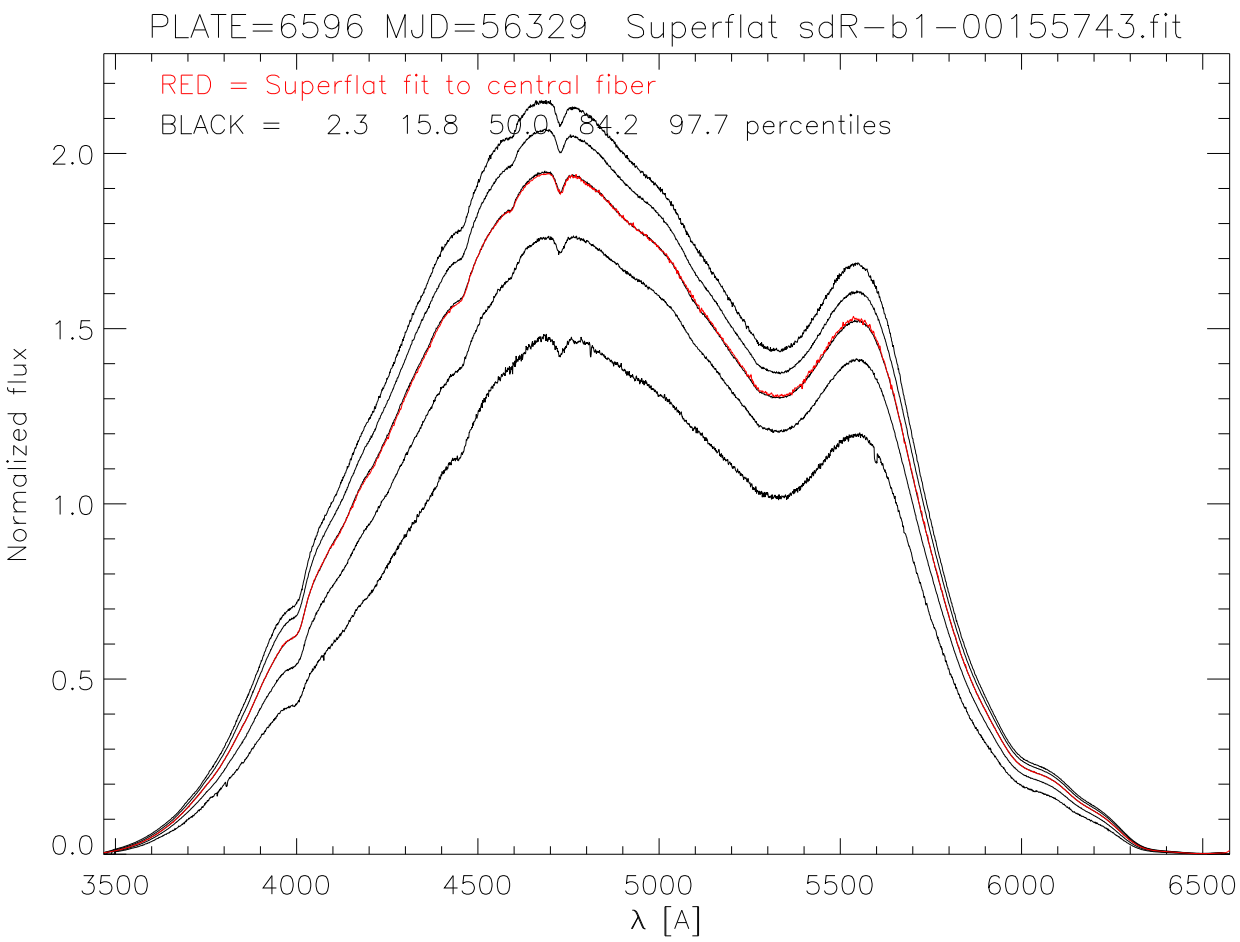
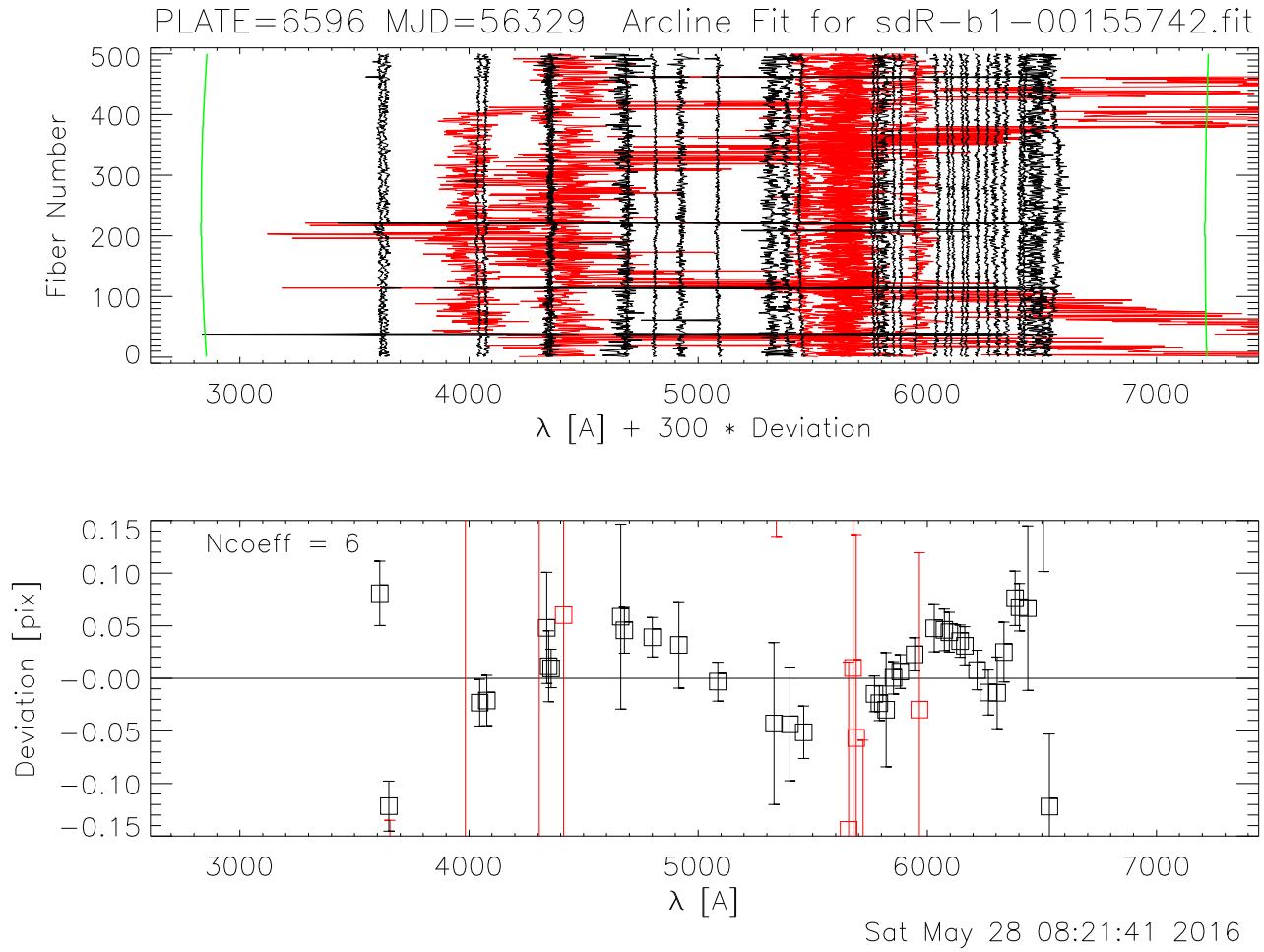
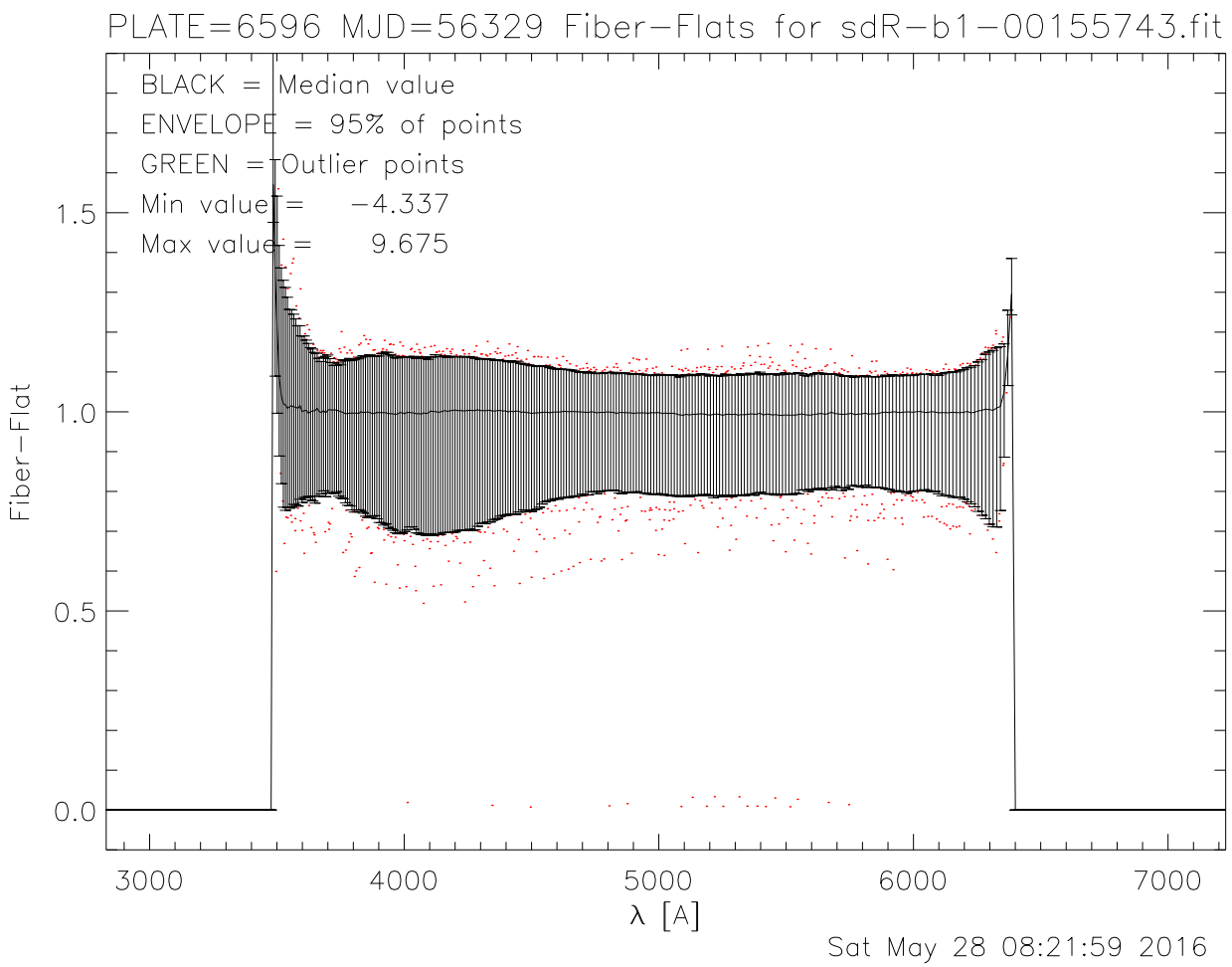
PLATE=6596 MJD=56329 Traces sdR-b1-00155743.fit

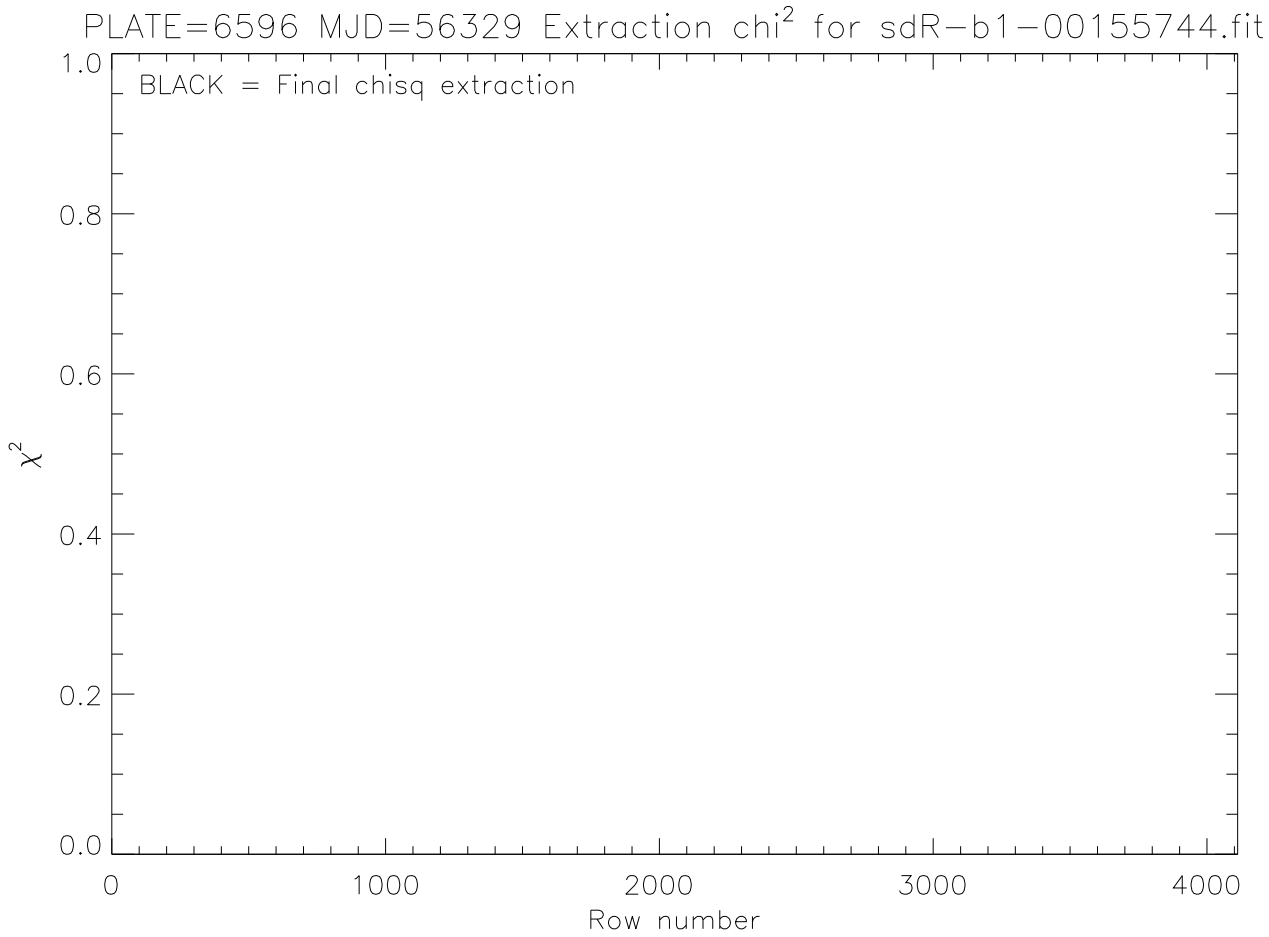


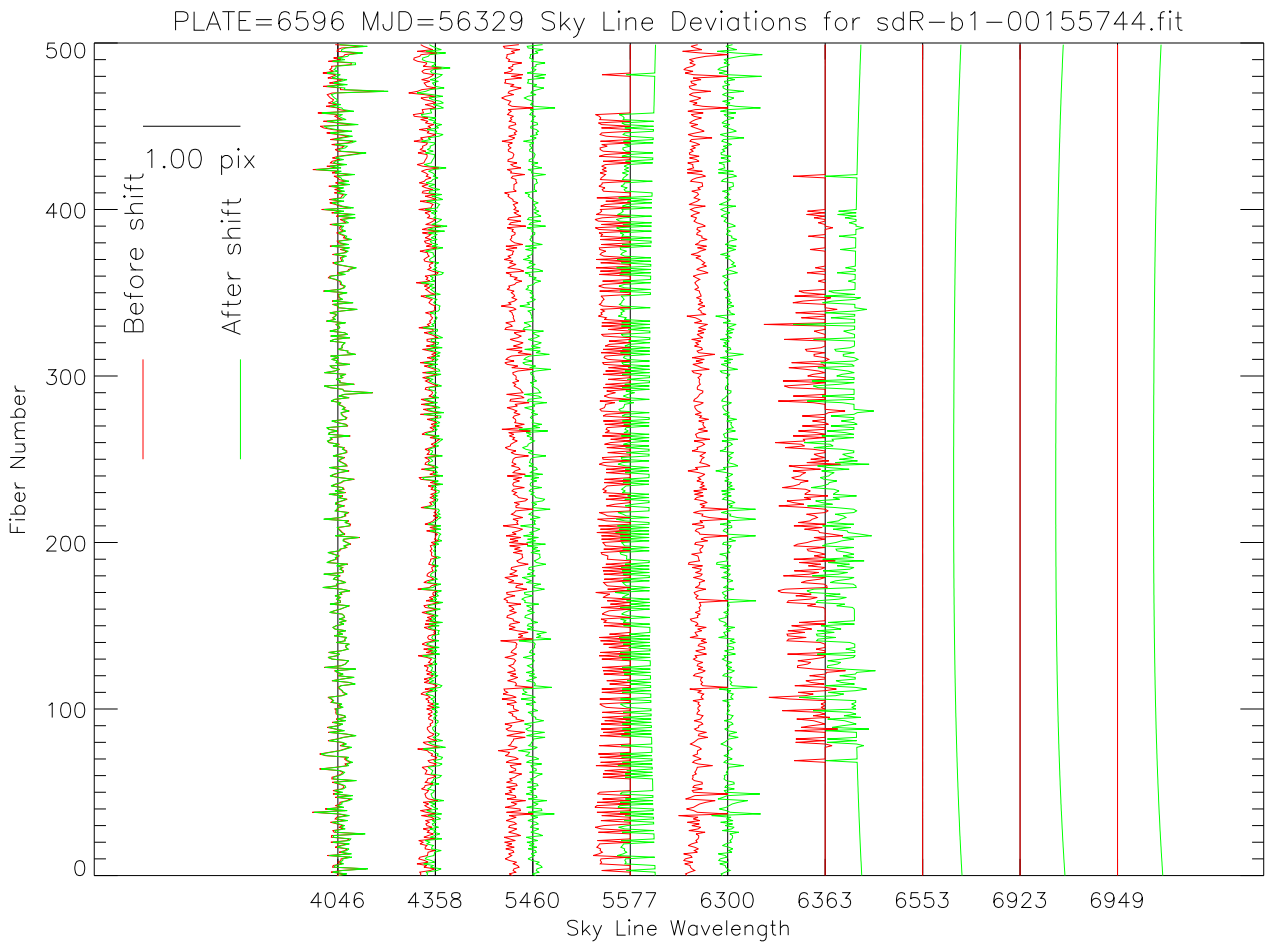

PLATE=6596 MJD=56329 flat extraction chi^2 for sdR−b1−00155743.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number

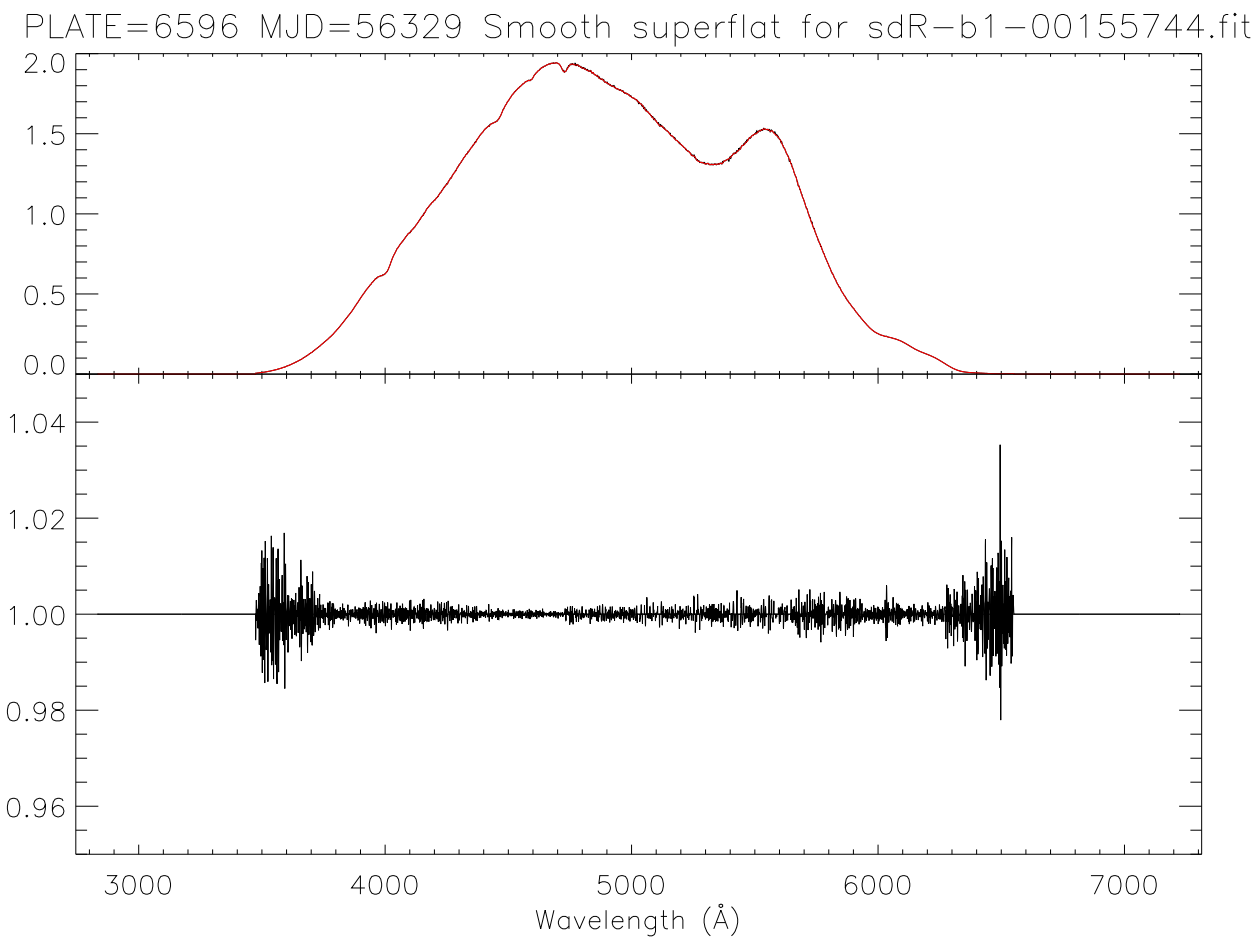

PLATE=6596 MJD=56329 Superflat sdR-b1-00155743.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
3500
4000
4500
5000
5500
6000
6500

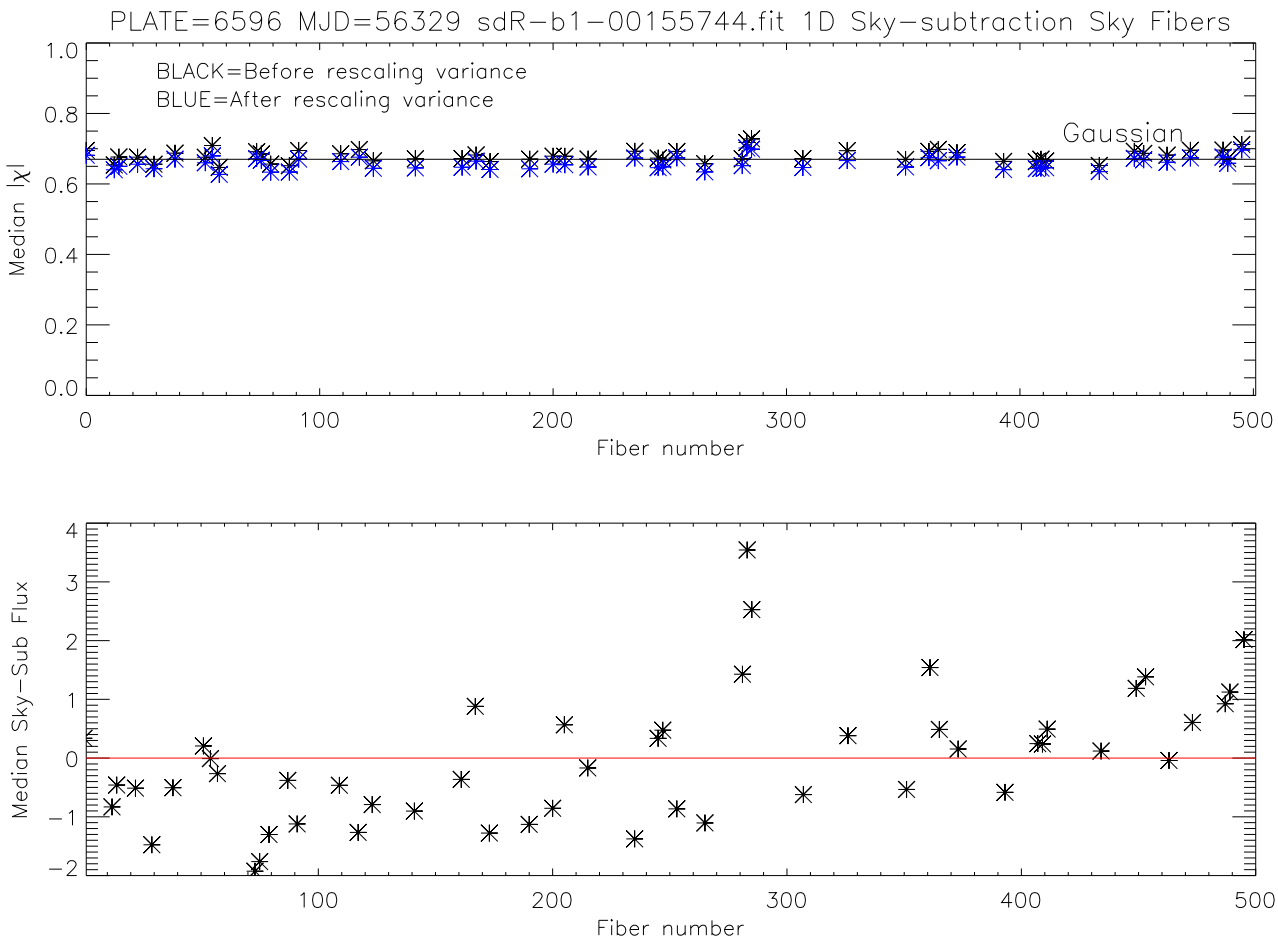

PLATE=6596 MJD=56329 Arcline Fit for sdR-b1-00155742.fit
Fiber Number
500
400
300
200
100
0
3000
4000
5000
6000
7000
λ [A] + 300 * Deviation
Ncoeff = 6
Deviation [pix]
0.15
0.10
0.05
−0.00
−0.05
−0.10
−0.15
3000
4000
5000
6000
7000
λ [A]
Sat May 28 08:21:41 2016

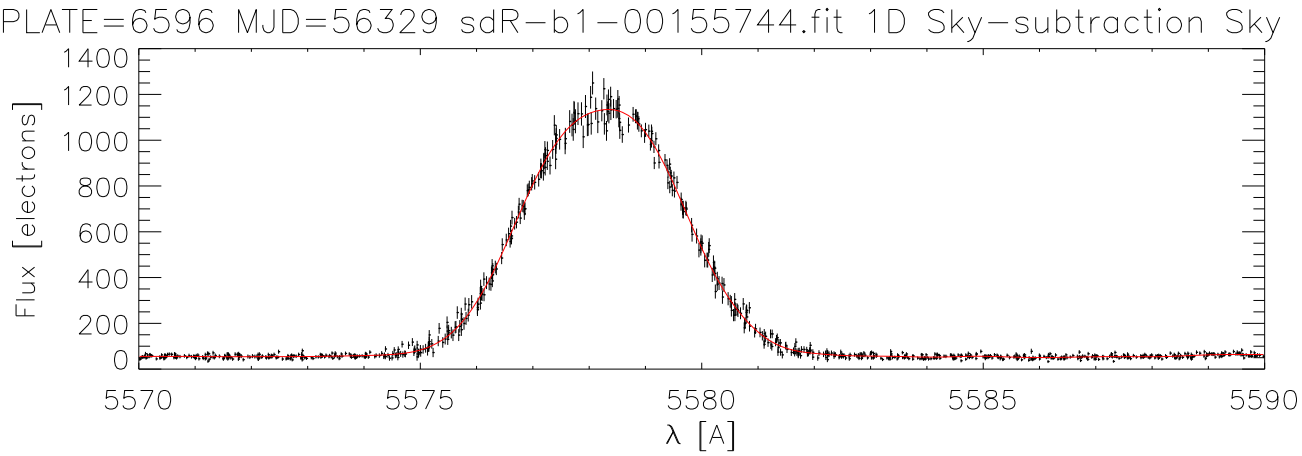

PLATE=6596 MJD=56329 Fiber-Flats for sdR-b1-00155743.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = -4.337
Max value = 9.675
Fiber-Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sat May 28 08:21:59 2016

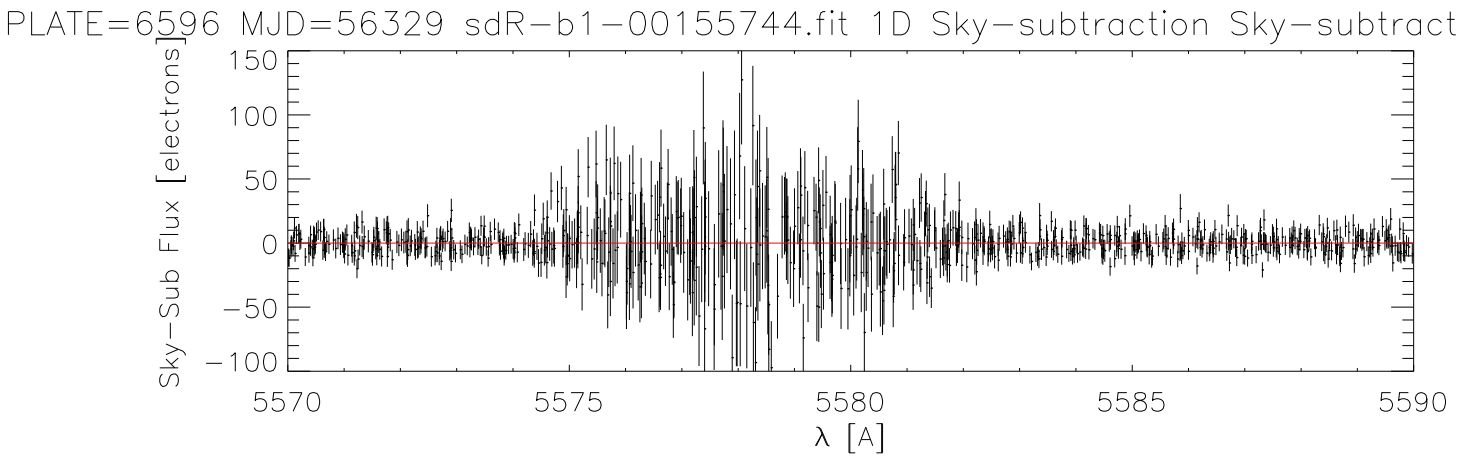

PLATE=6596 MJD=56329 Extraction chi^2 for sdR-b1-00155744.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=6596 MJD=56329 Sky Line Deviations for sdR-b1-00155744.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

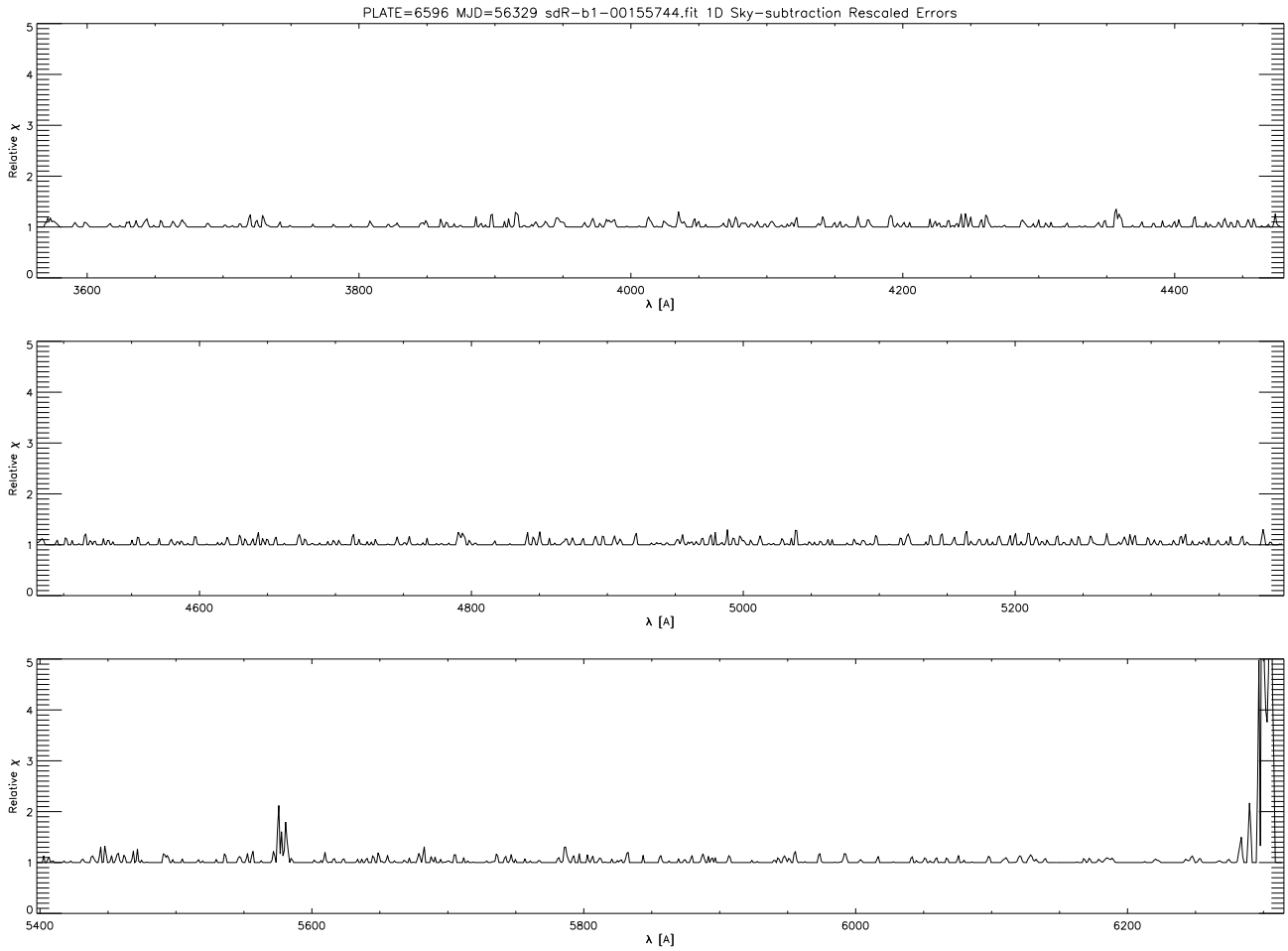

PLATE=6596 MJD=56329 Smooth superflat for sdR-b1-00155744.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

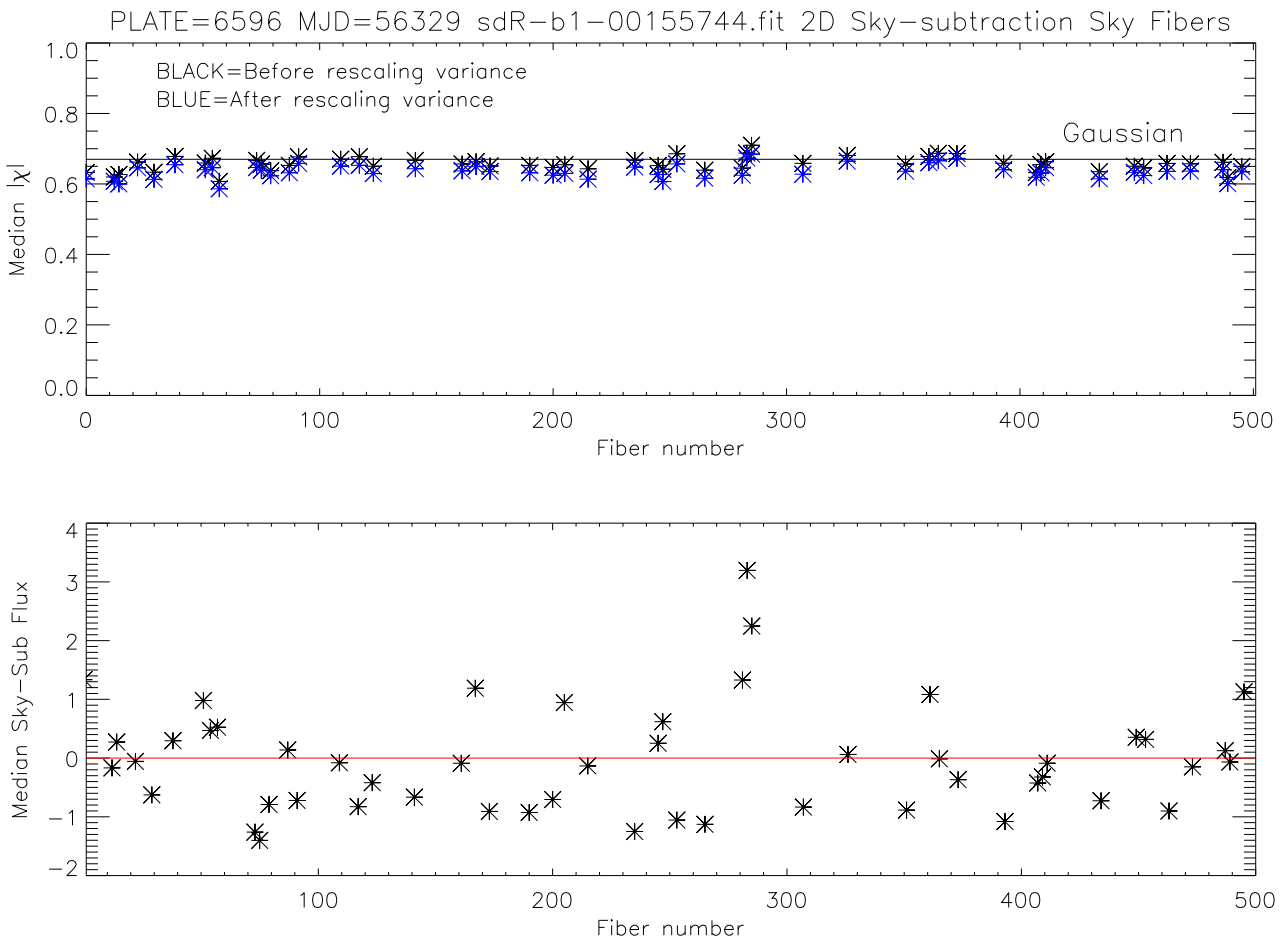

PLATE=6596 MJD=56329 sdR-b1-00155744.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

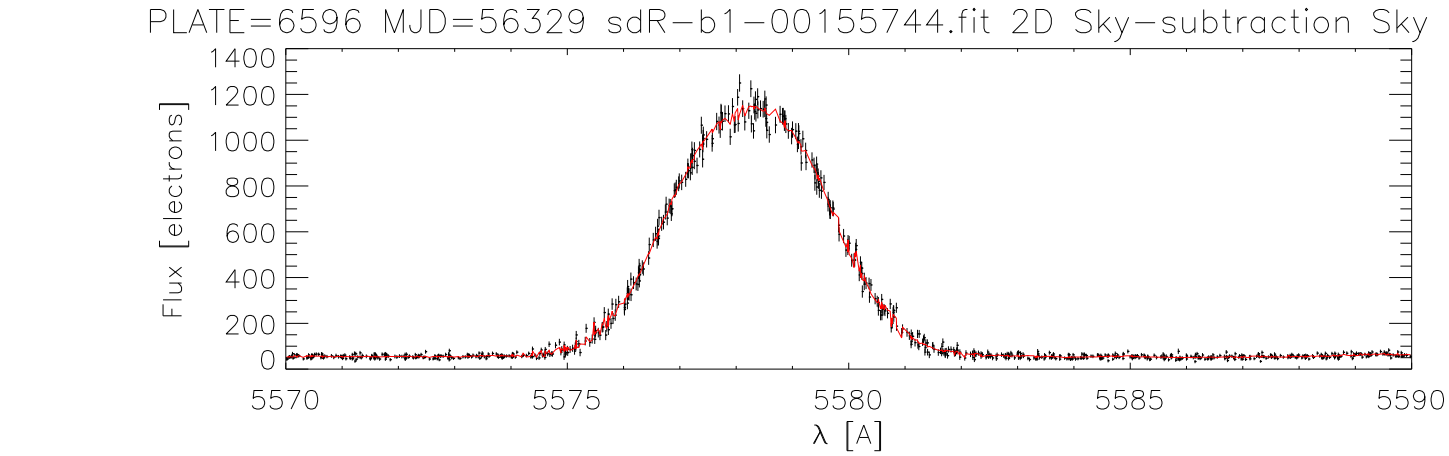

PLATE=6596 MJD=56329 sdR-b1-00155744.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1400
1200
1000
800
600
400
200
0
5570
5575
5580
5585
5590
λ [A]

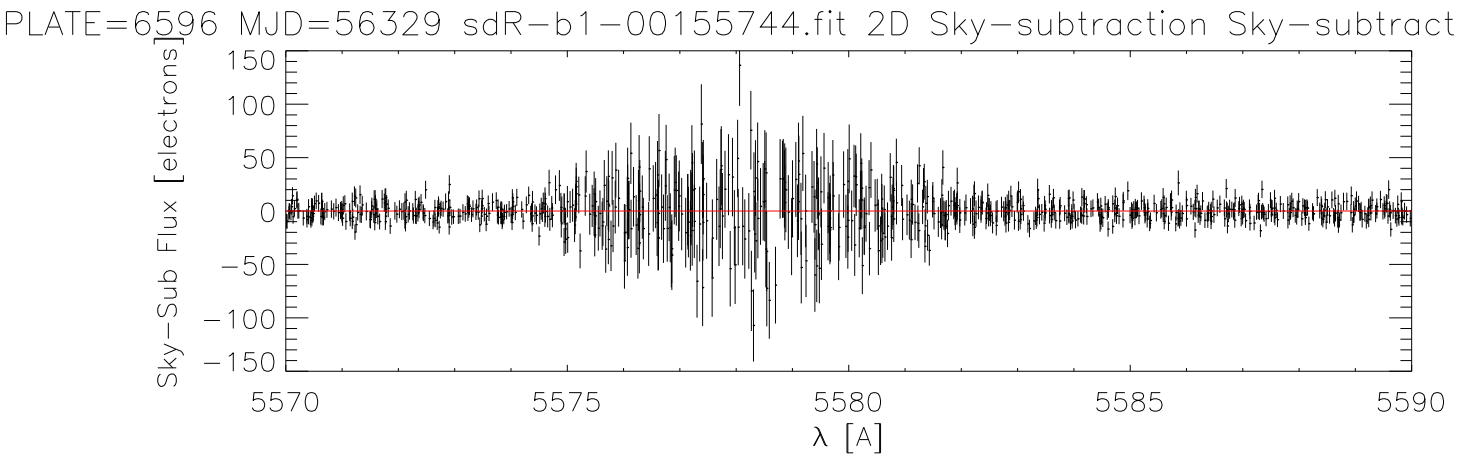

PLATE=6596 MJD=56329 sdR-b1-00155744.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
−50
−100
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 51

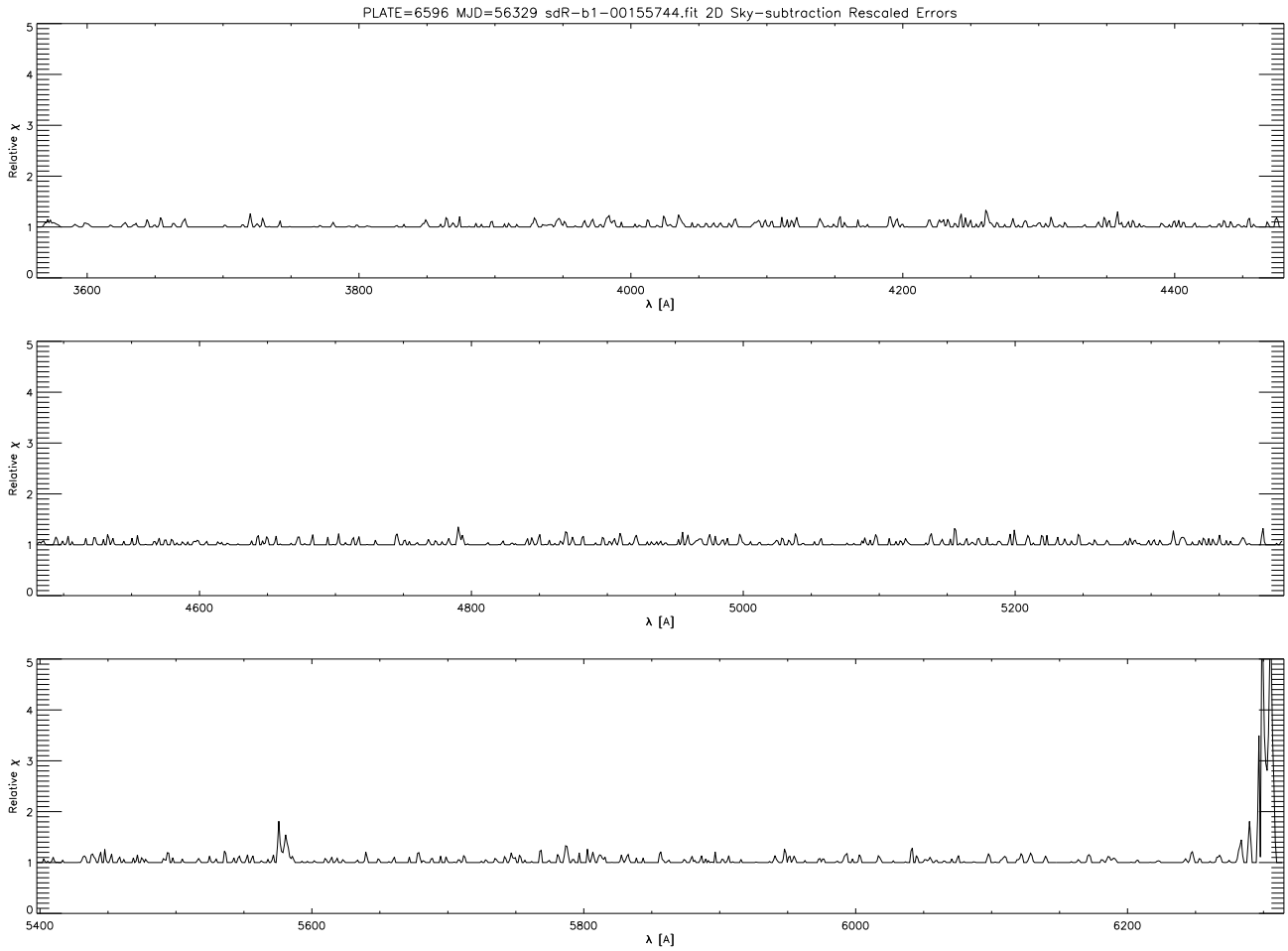


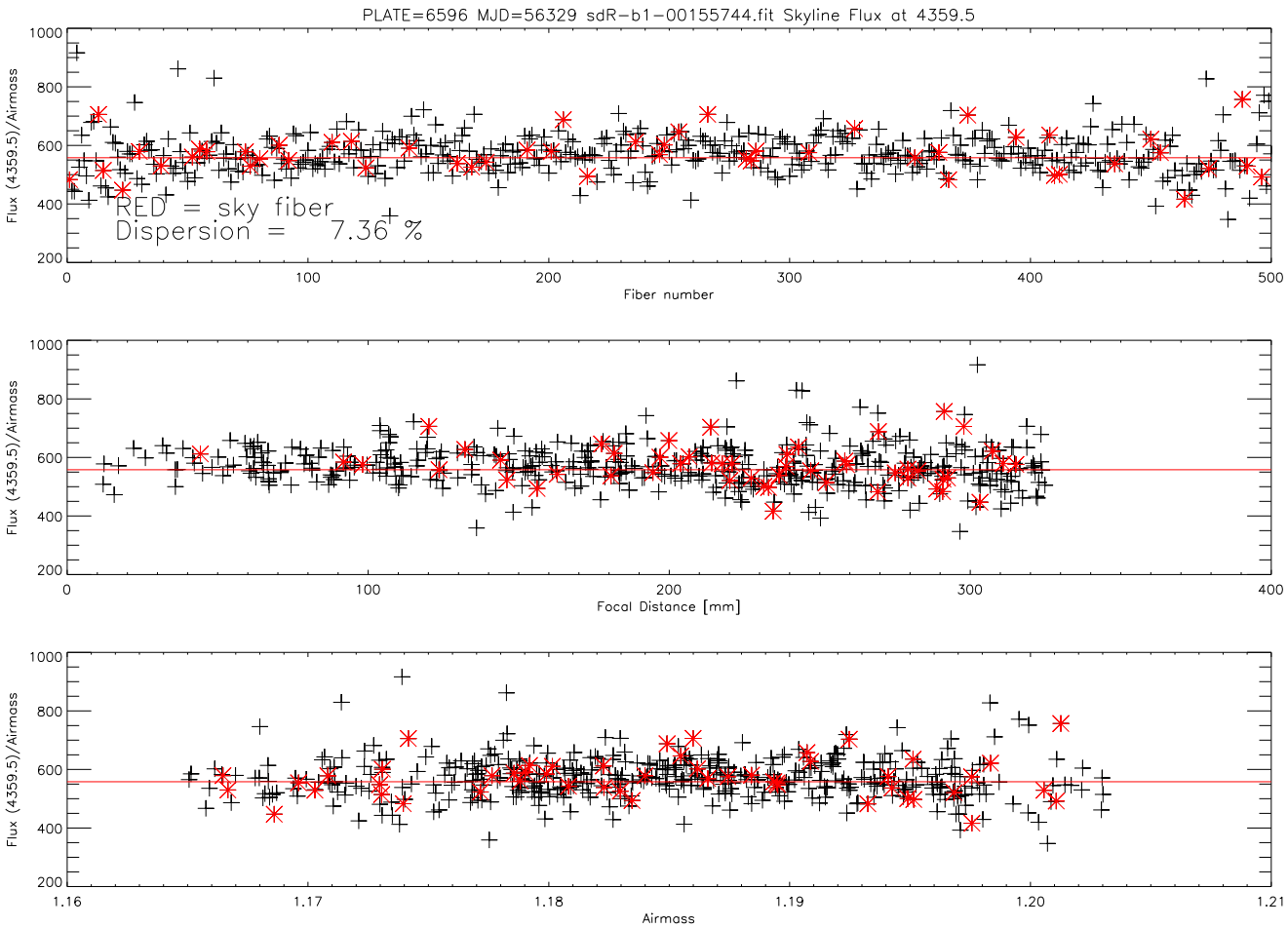

PLATE=6596 MJD=56329 sdR-b1-00155744.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

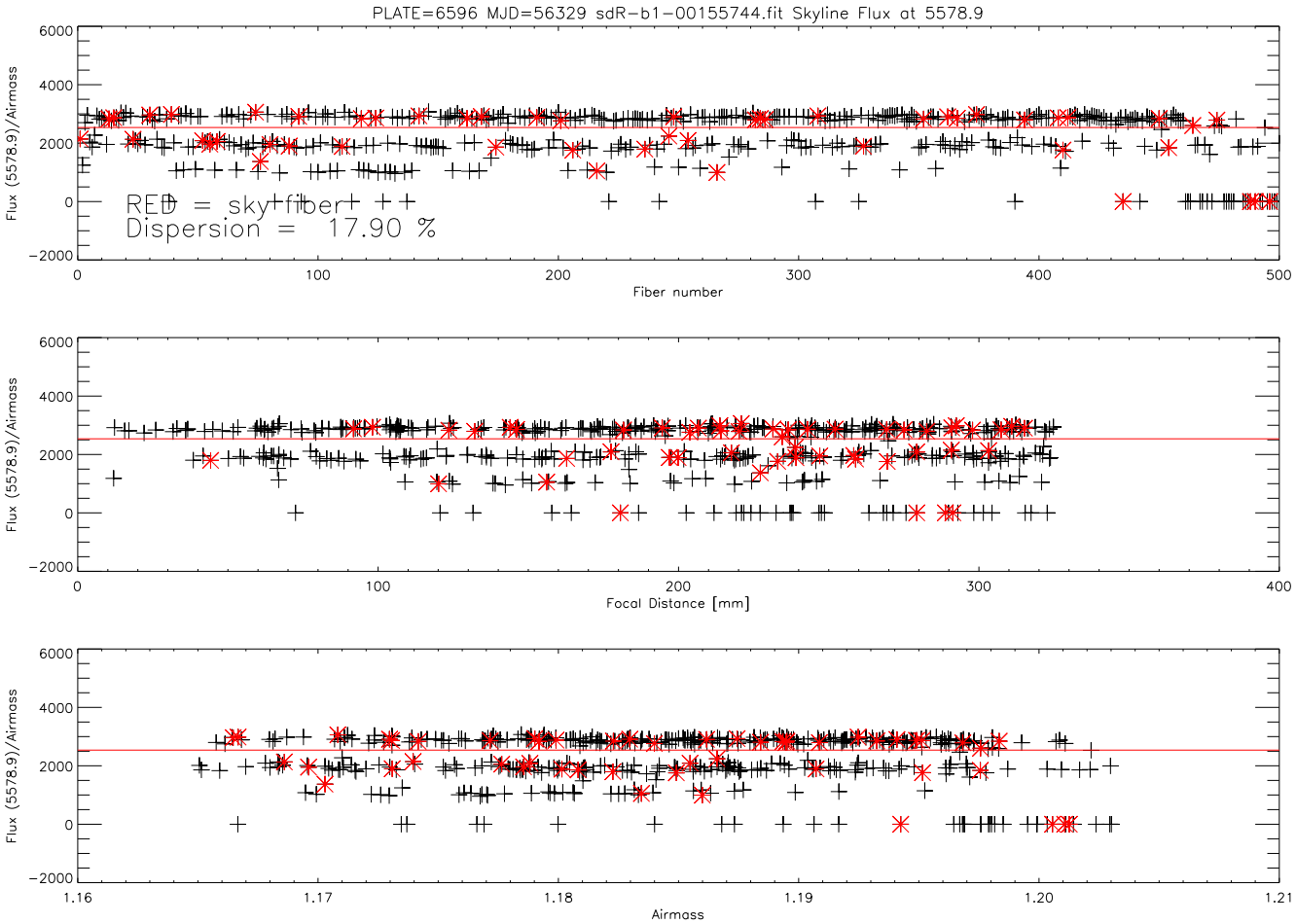

PLATE=6596 MJD=56329 sdR-b1-00155744.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1400
1200
1000
800
600
400
200
0
5570
5575
5580
5585
5590
λ [A]

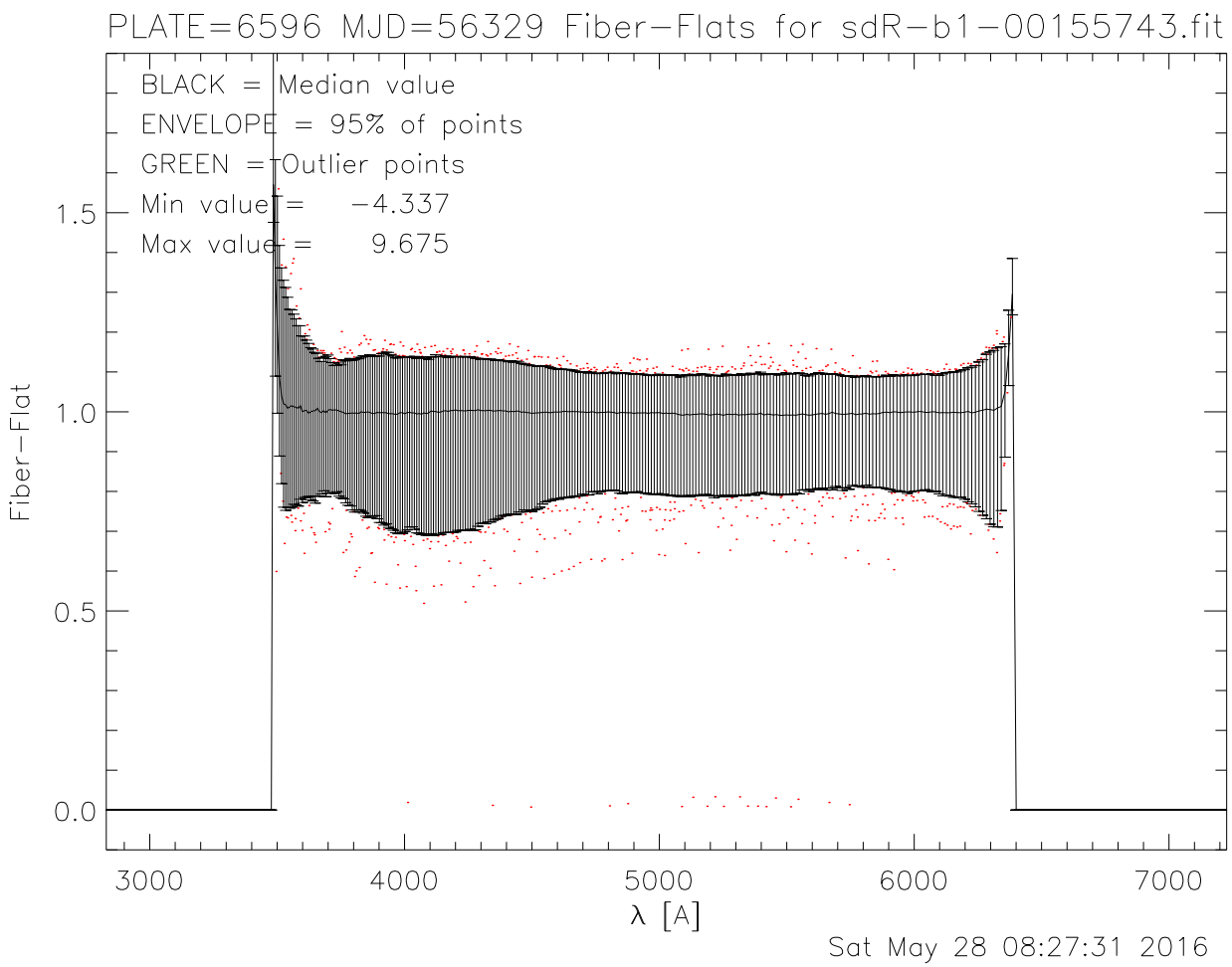

PLATE=6596 MJD=56329 sdR-b1-00155744.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
−50
−100
−150
5570
5575
5580
5585
5590
λ [A]

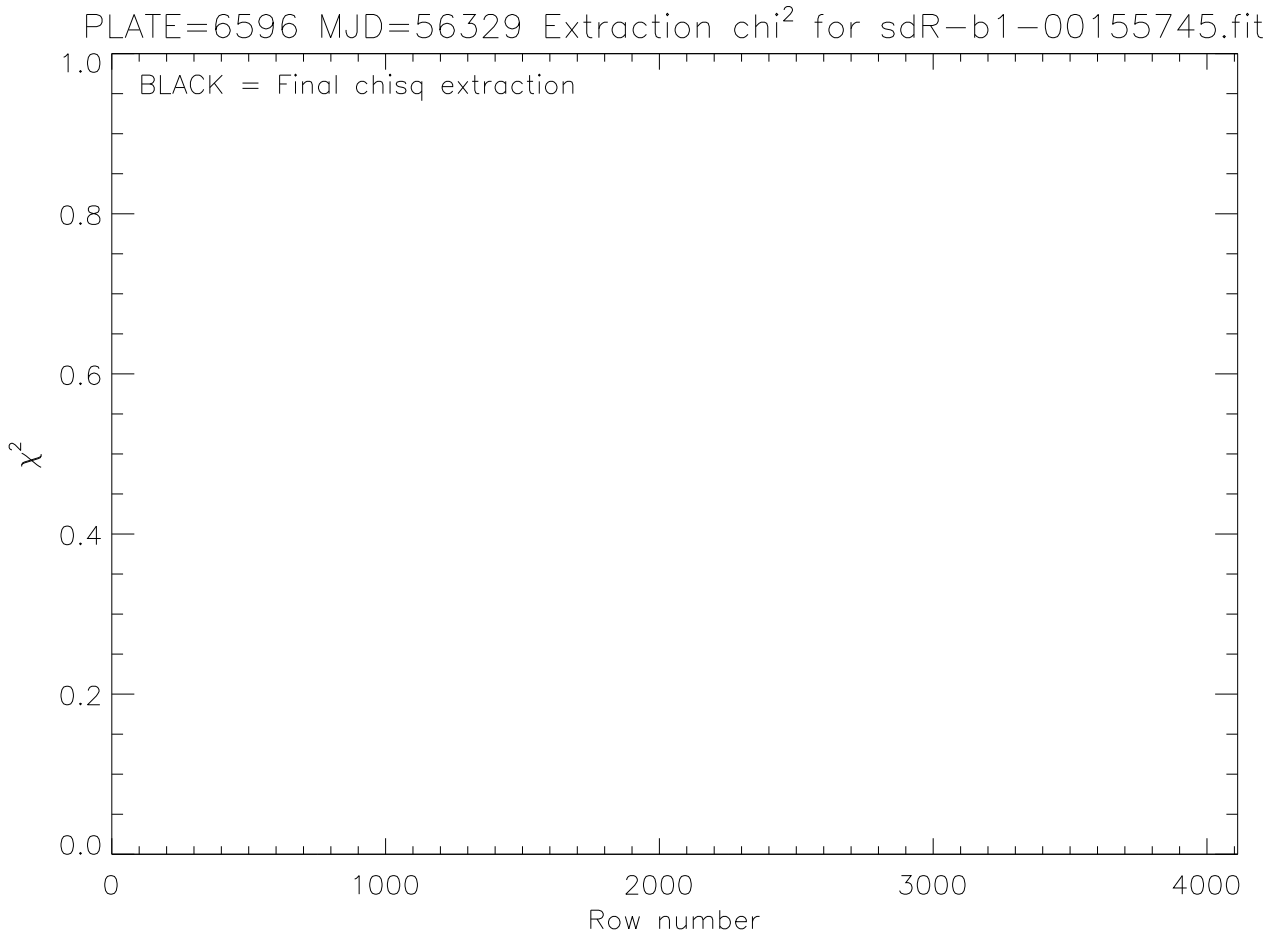
Number of sky fibers = 51

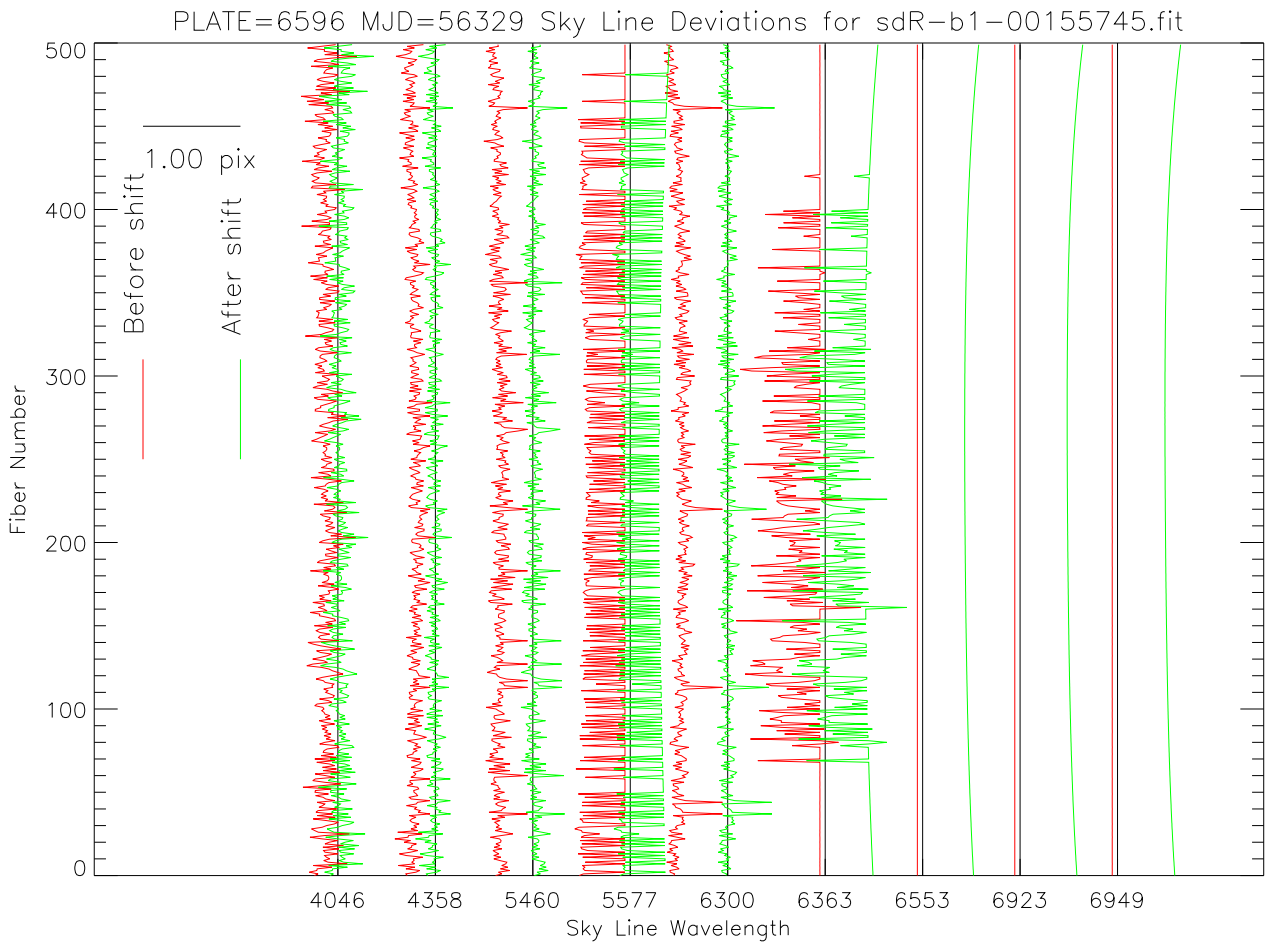


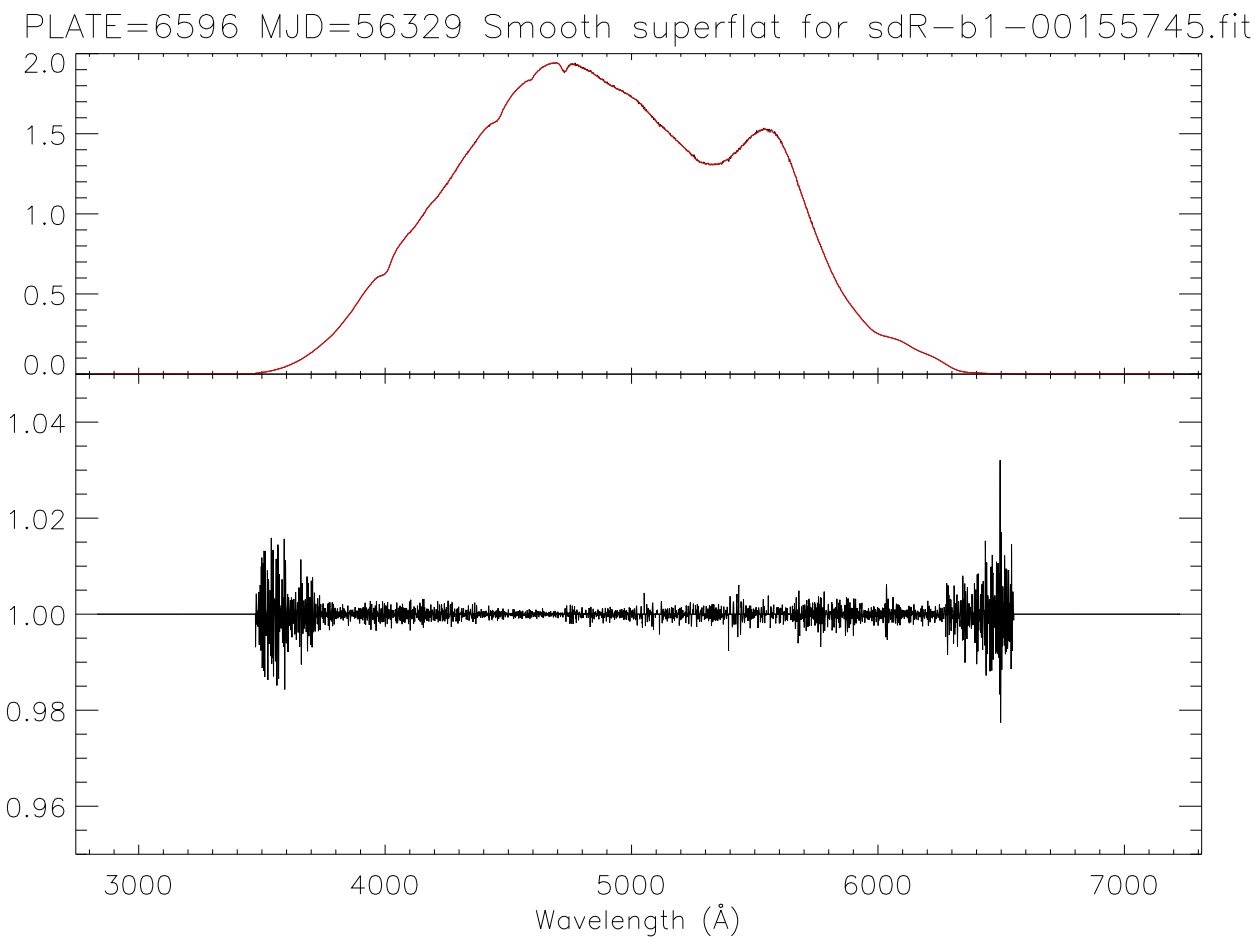

PLATE=6596 MJD=56329 sdR-b1-00155744.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 7.36 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

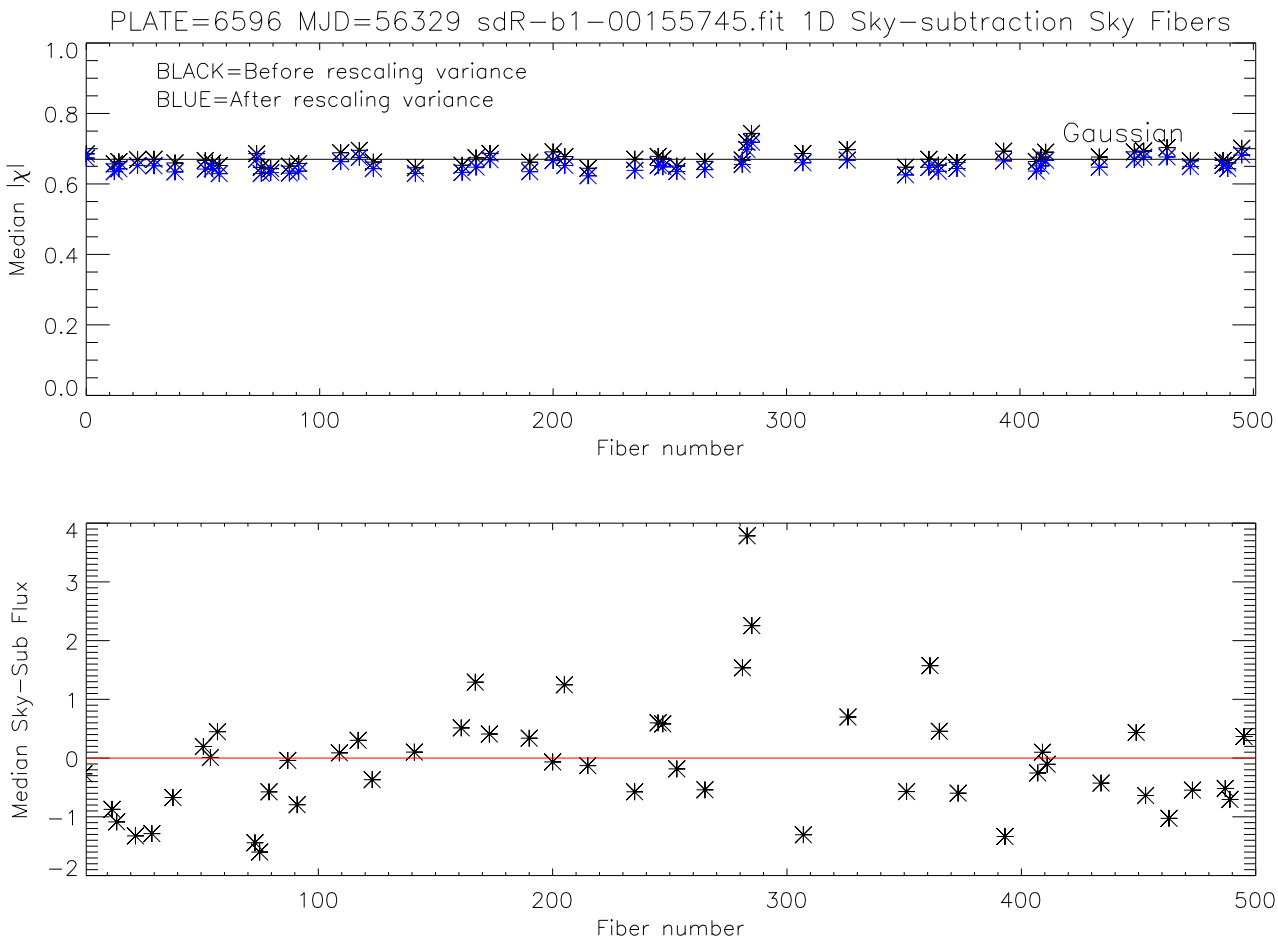

PLATE=6596 MJD=56329 sdR-b1-00155744.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 17.90 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

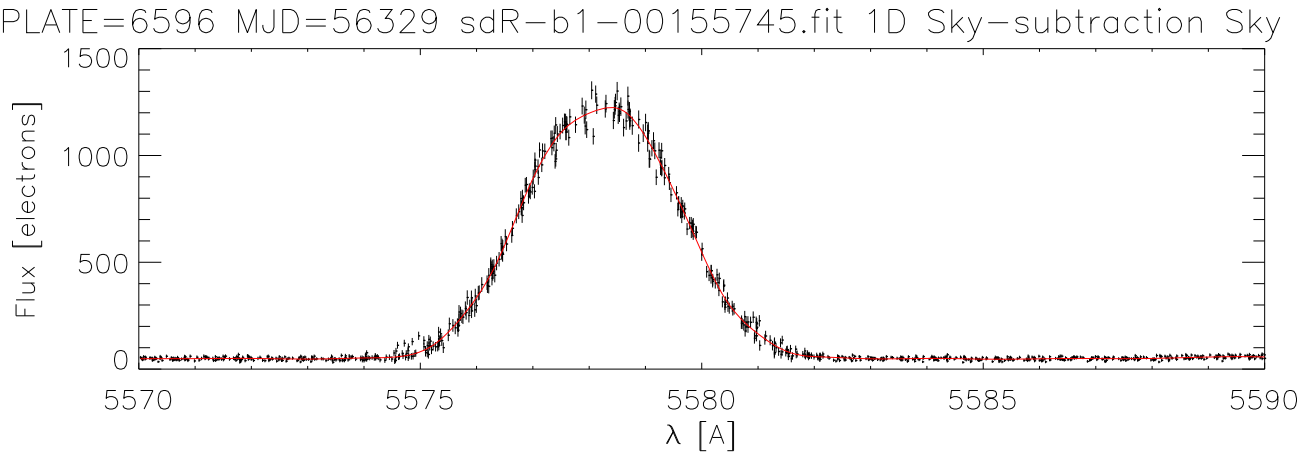

PLATE=6596 MJD=56329 Fiber-Flats for sdR-b1-00155743.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = -4.337
Max value = 9.675
Fiber-Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sat May 28 08:27:31 2016

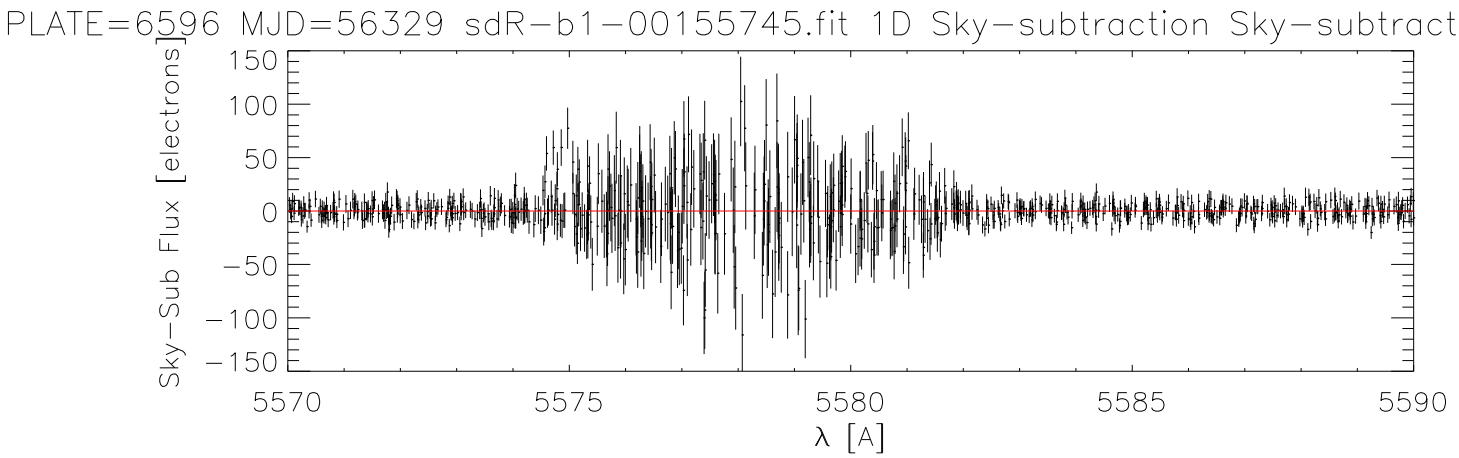

PLATE=6596 MJD=56329 Extraction chi^2 for sdR-b1-00155745.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=6596 MJD=56329 Sky Line Deviations for sdR-b1-00155745.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

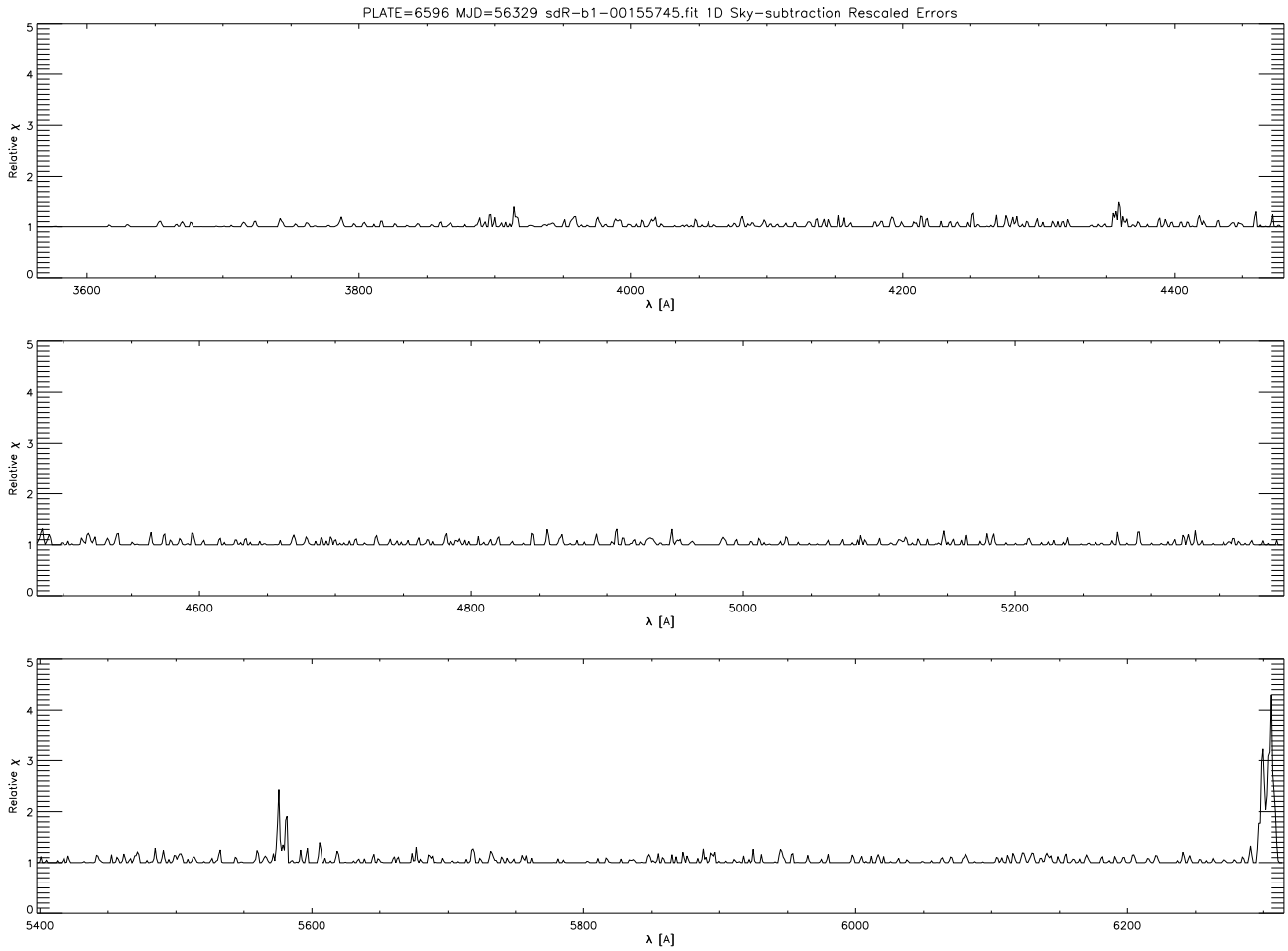

PLATE=6596 MJD=56329 Smooth superflat for sdR-b1-00155745.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

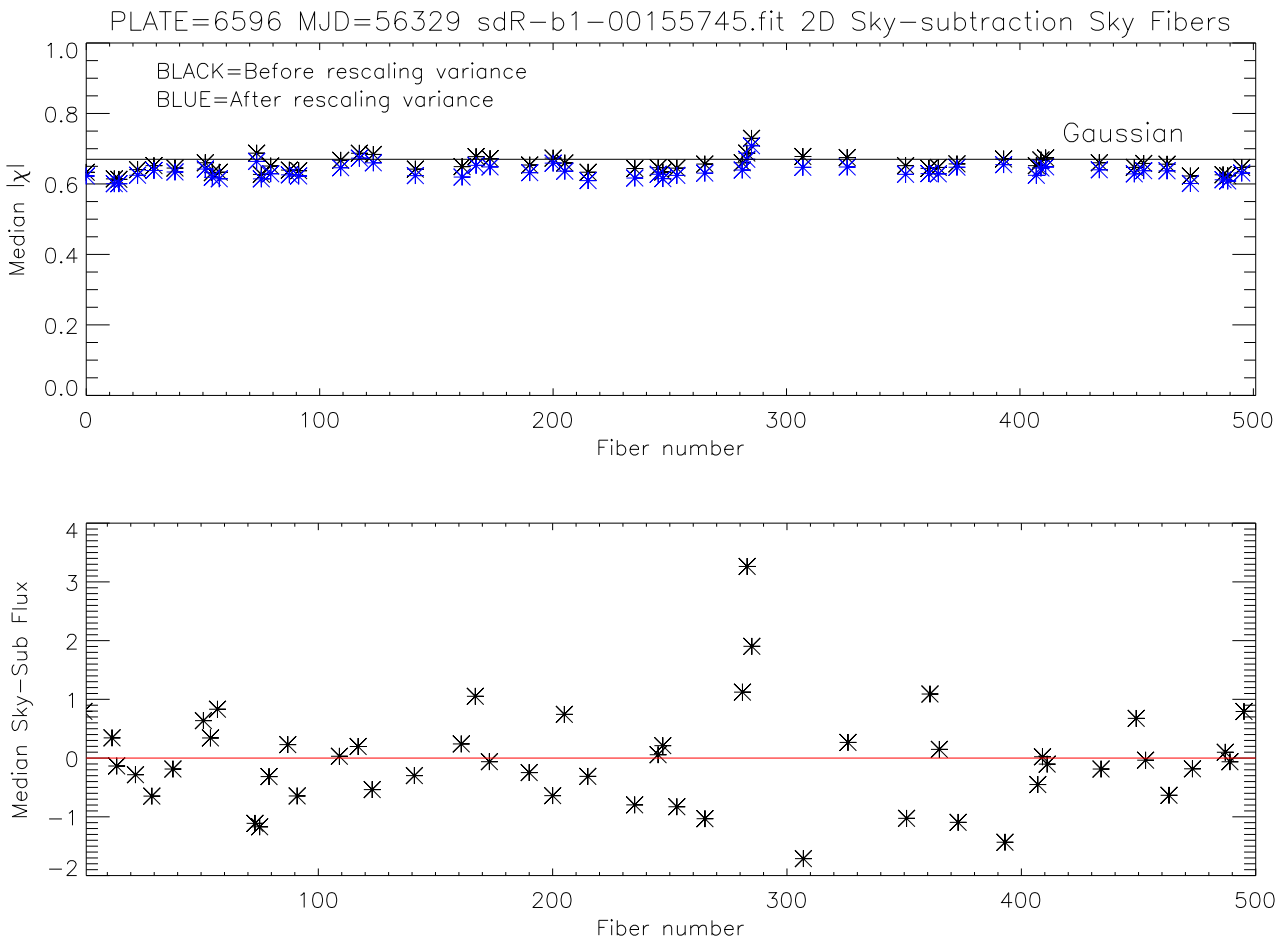

PLATE=6596 MJD=56329 sdR-b1-00155745.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

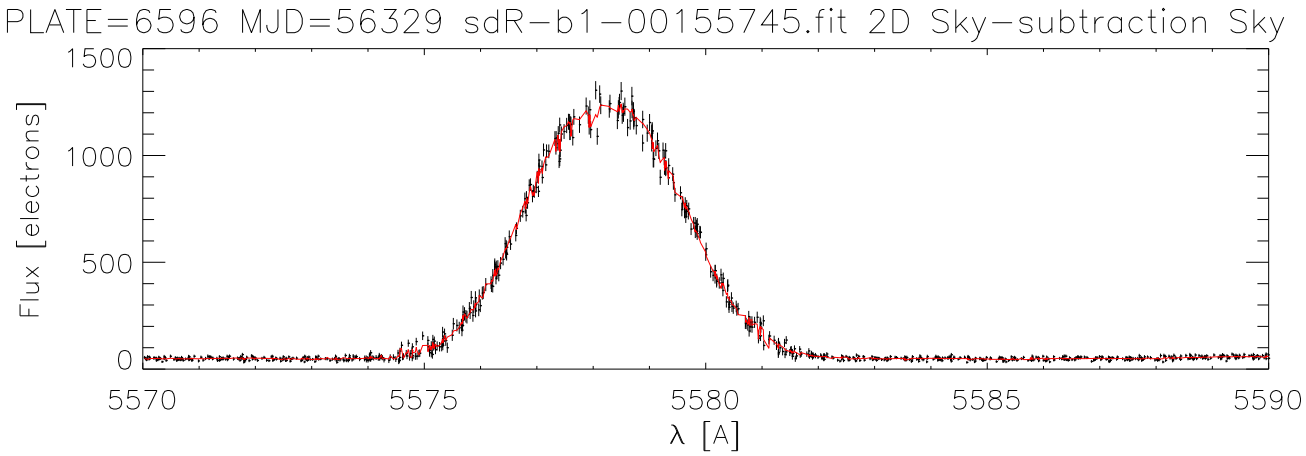

PLATE=6596 MJD=56329 sdR-b1-00155745.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

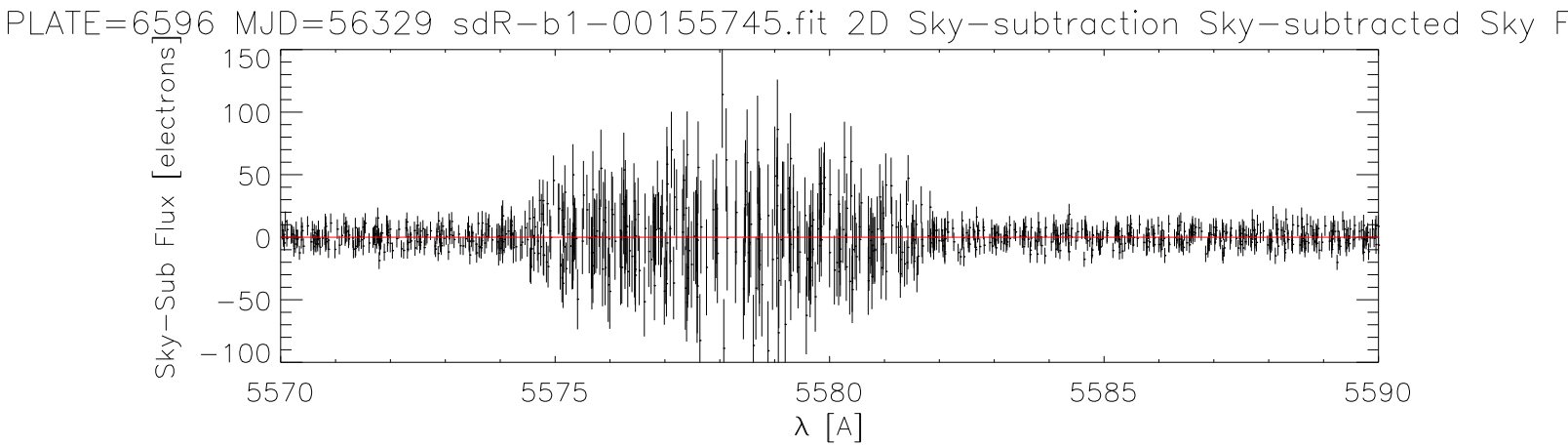

PLATE=6596 MJD=56329 sdR-b1-00155745.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
−50
−100
−150
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 51

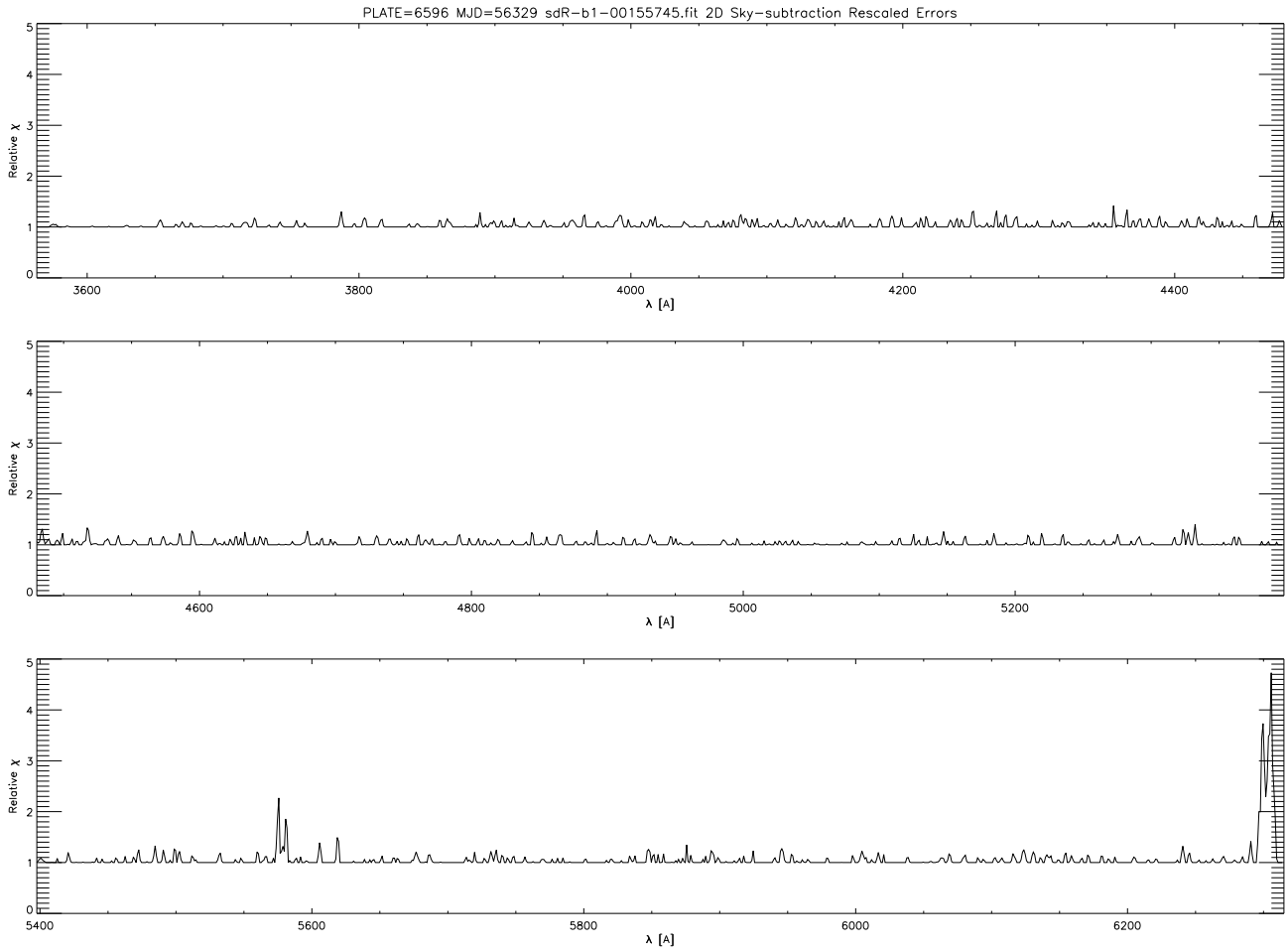


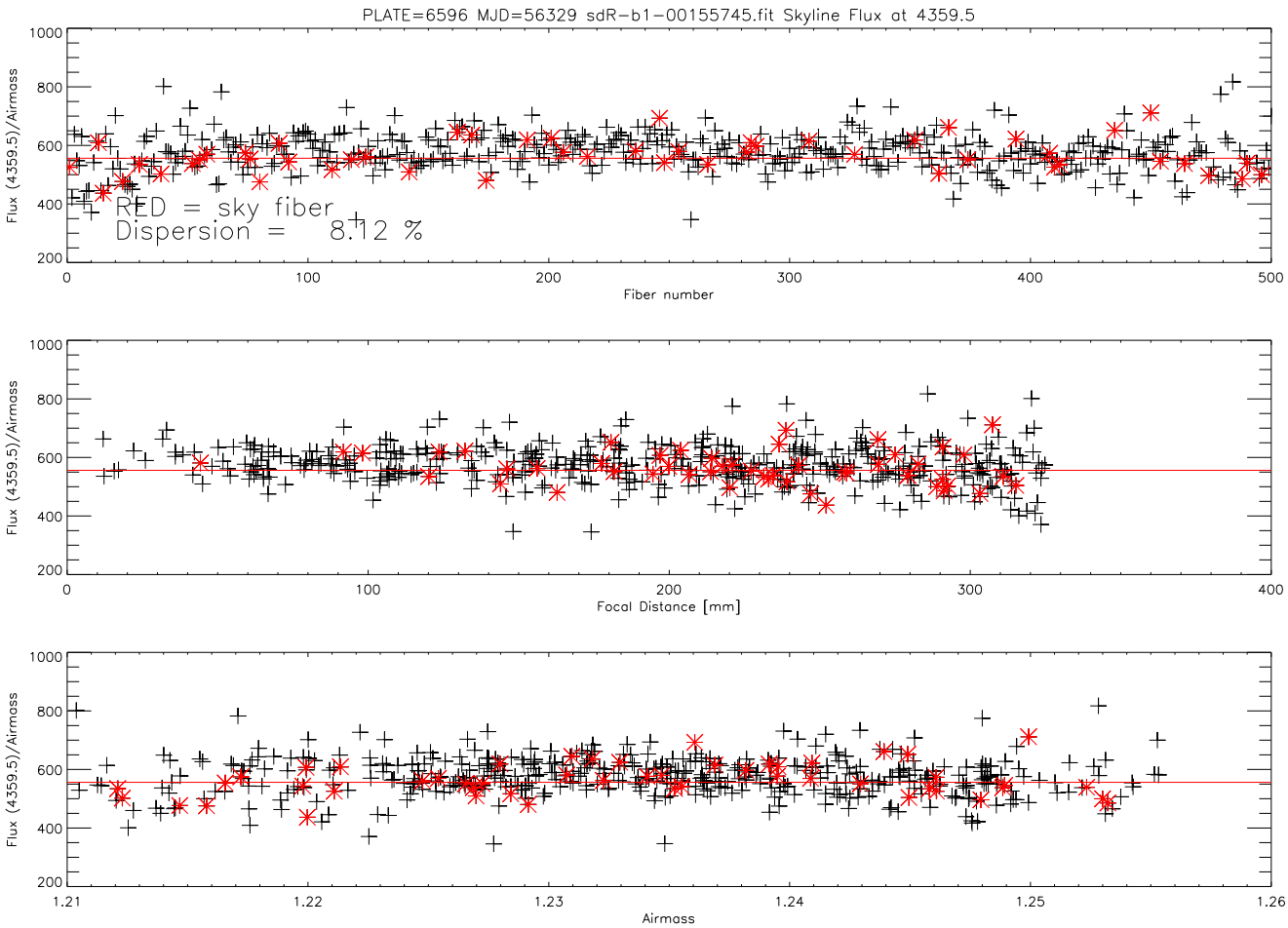

PLATE=6596 MJD=56329 sdR-b1-00155745.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

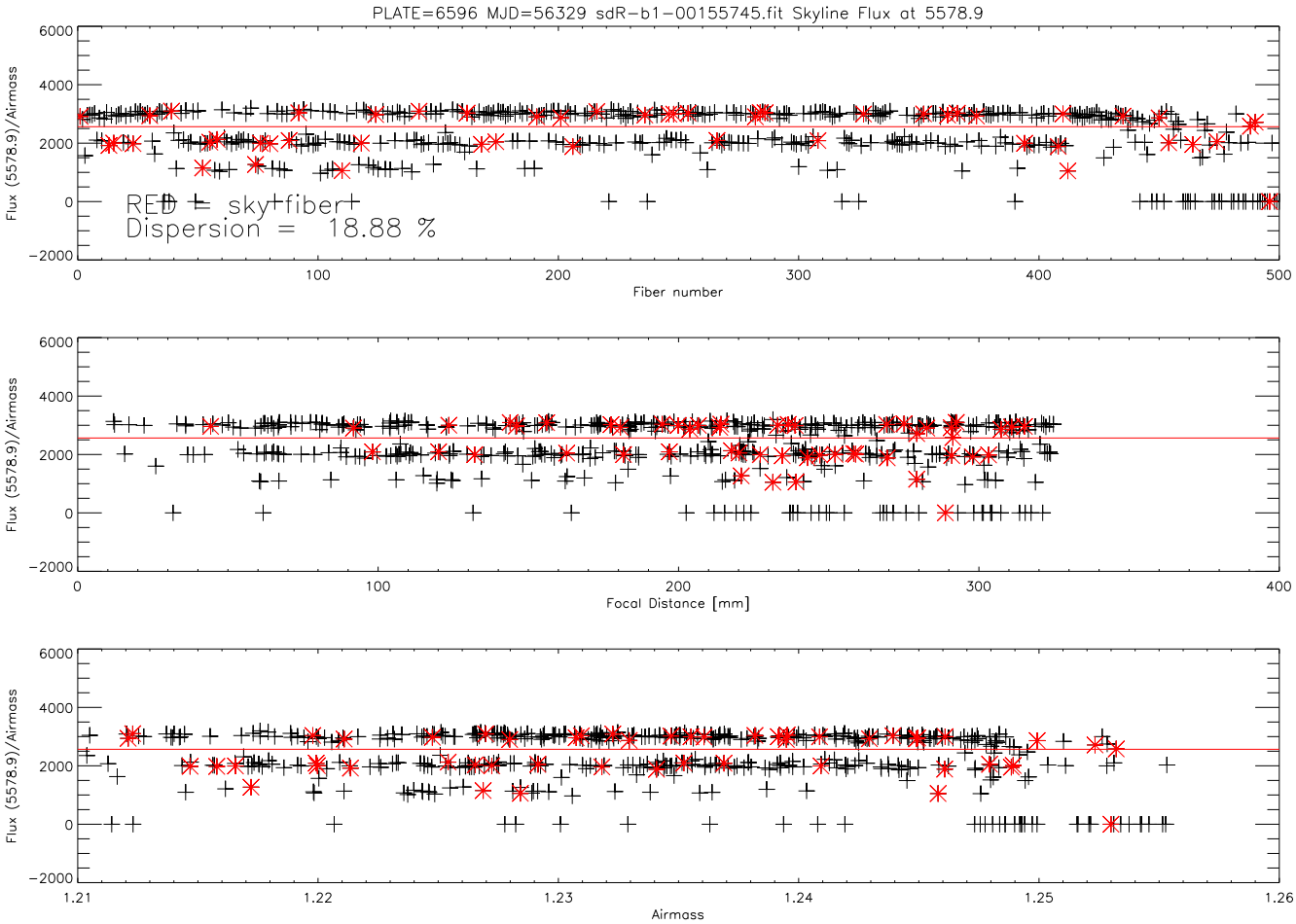

PLATE=6596 MJD=56329 sdR-b1-00155745.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

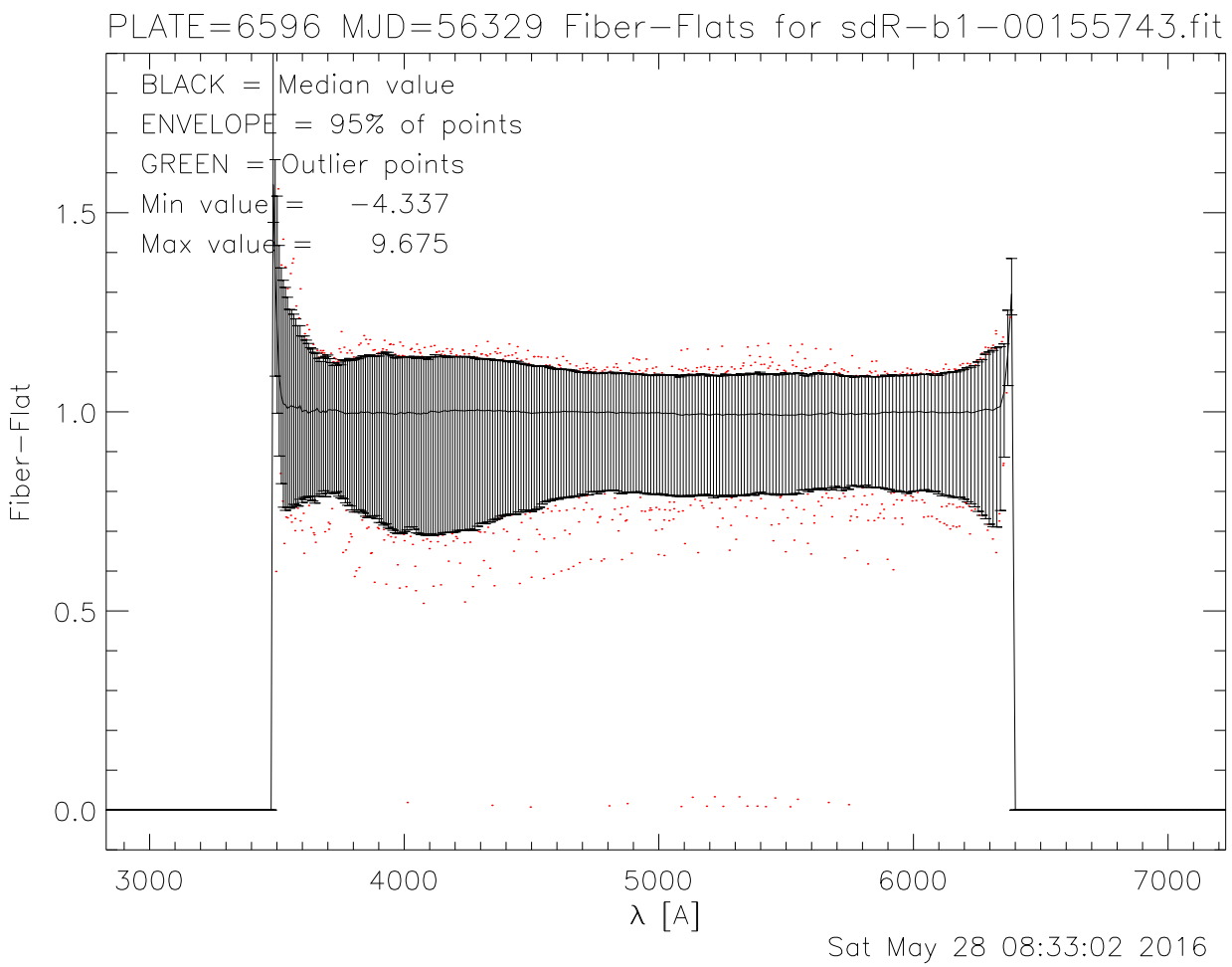

PLATE=6596 MJD=56329 sdR-b1-00155745.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
−50
−100
5570
5575
5580
5585
5590
λ [A]

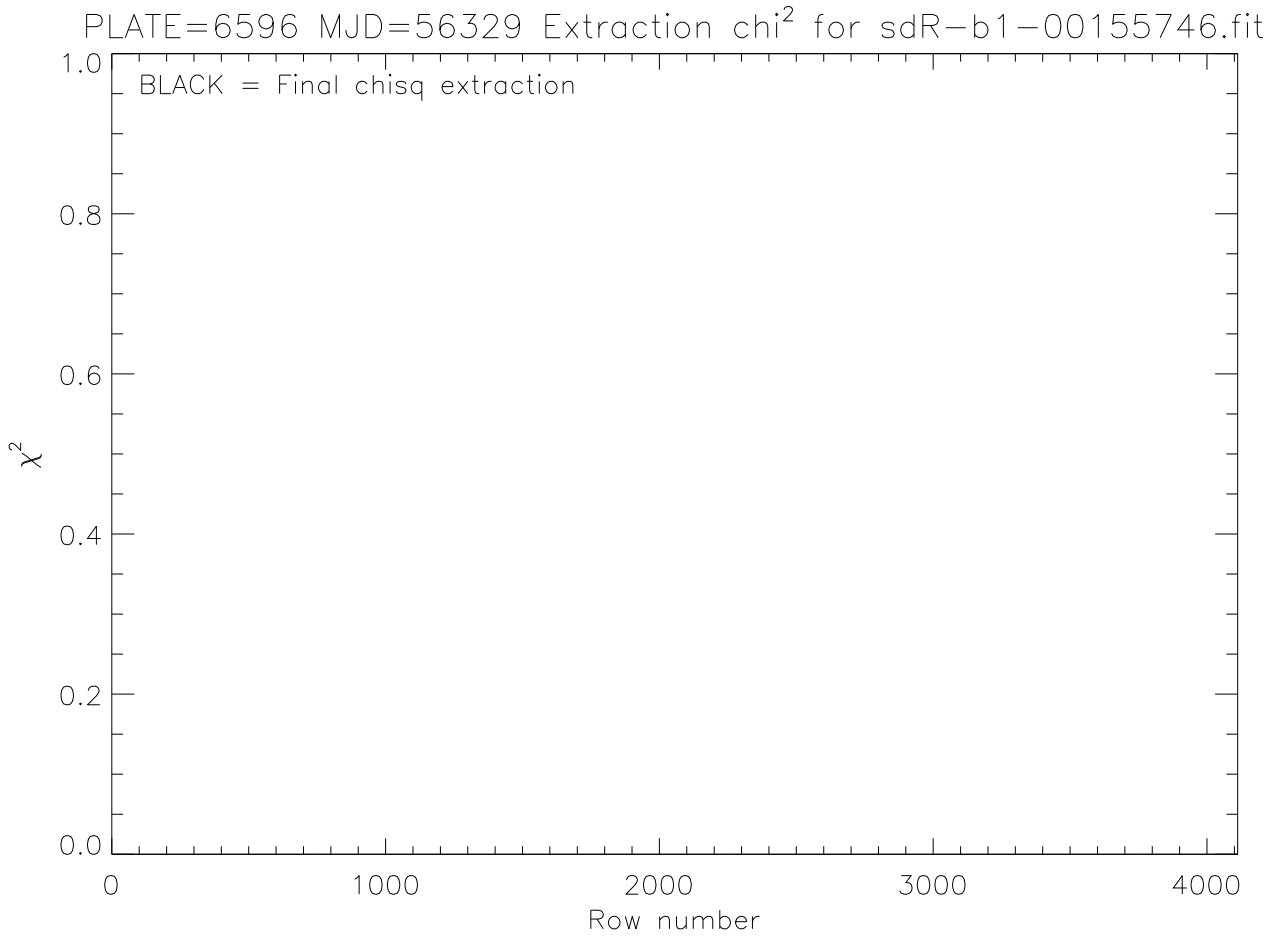
Number of sky fibers = 51

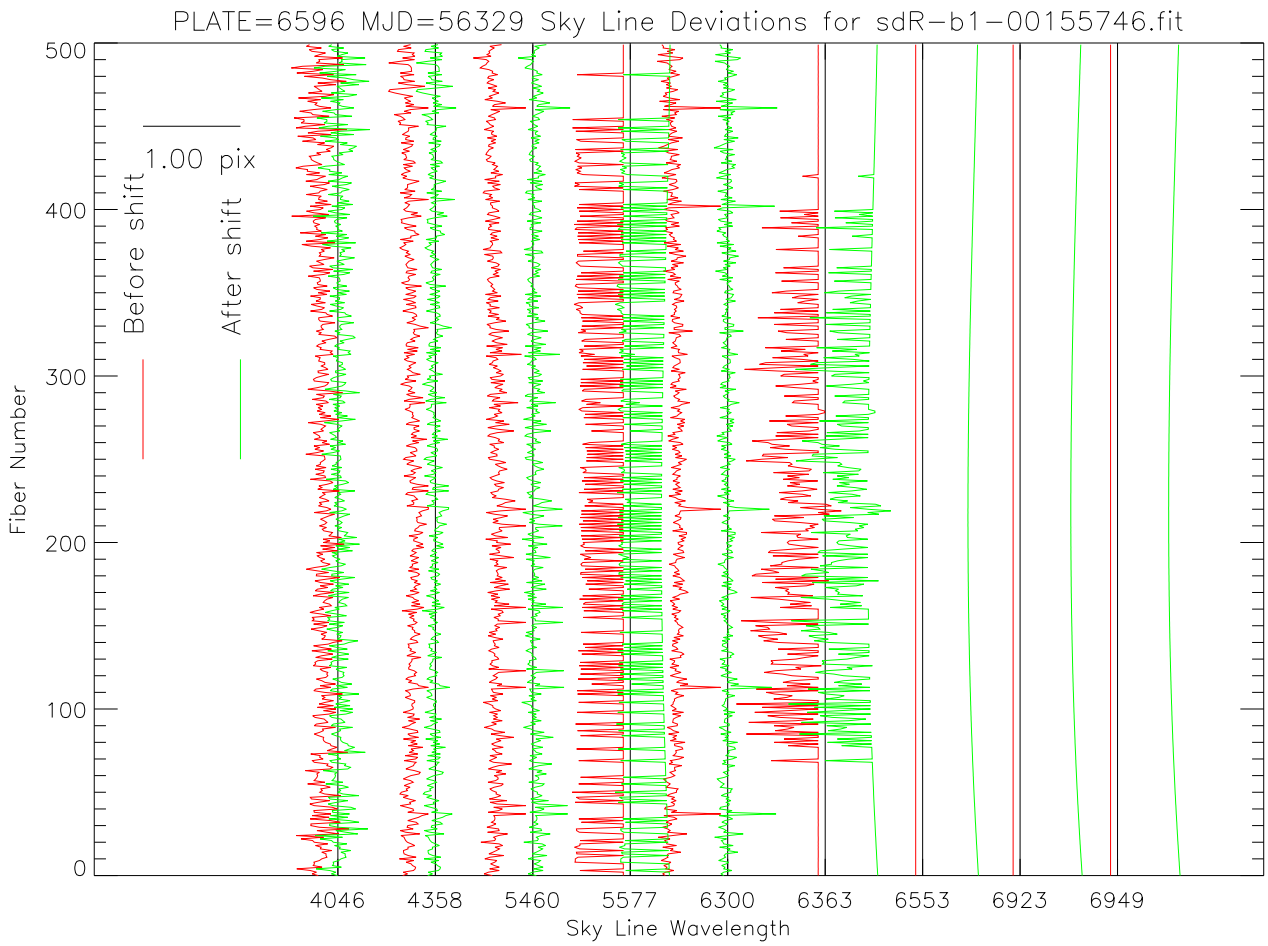


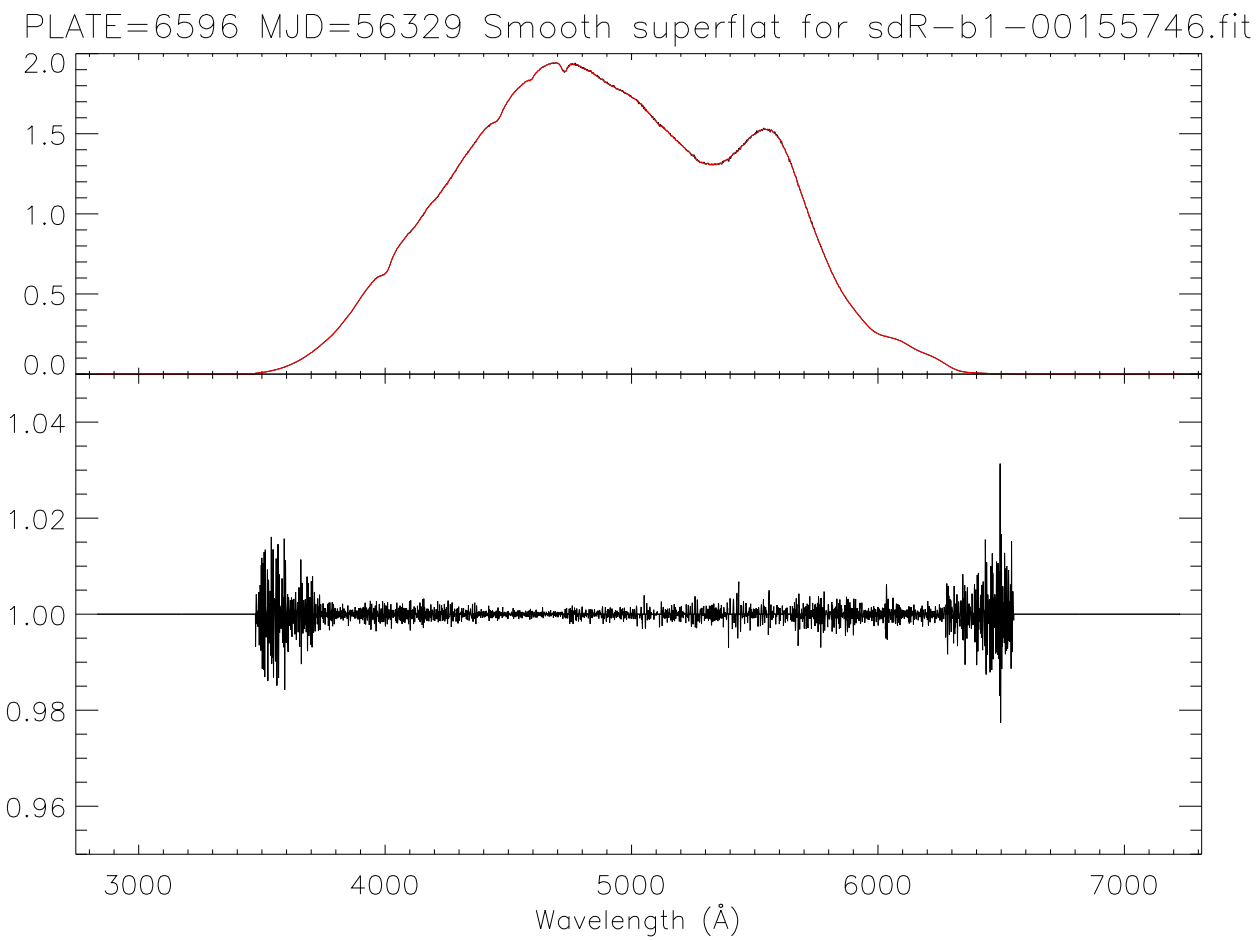

PLATE=6596 MJD=56329 sdR-b1-00155745.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 8.12 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

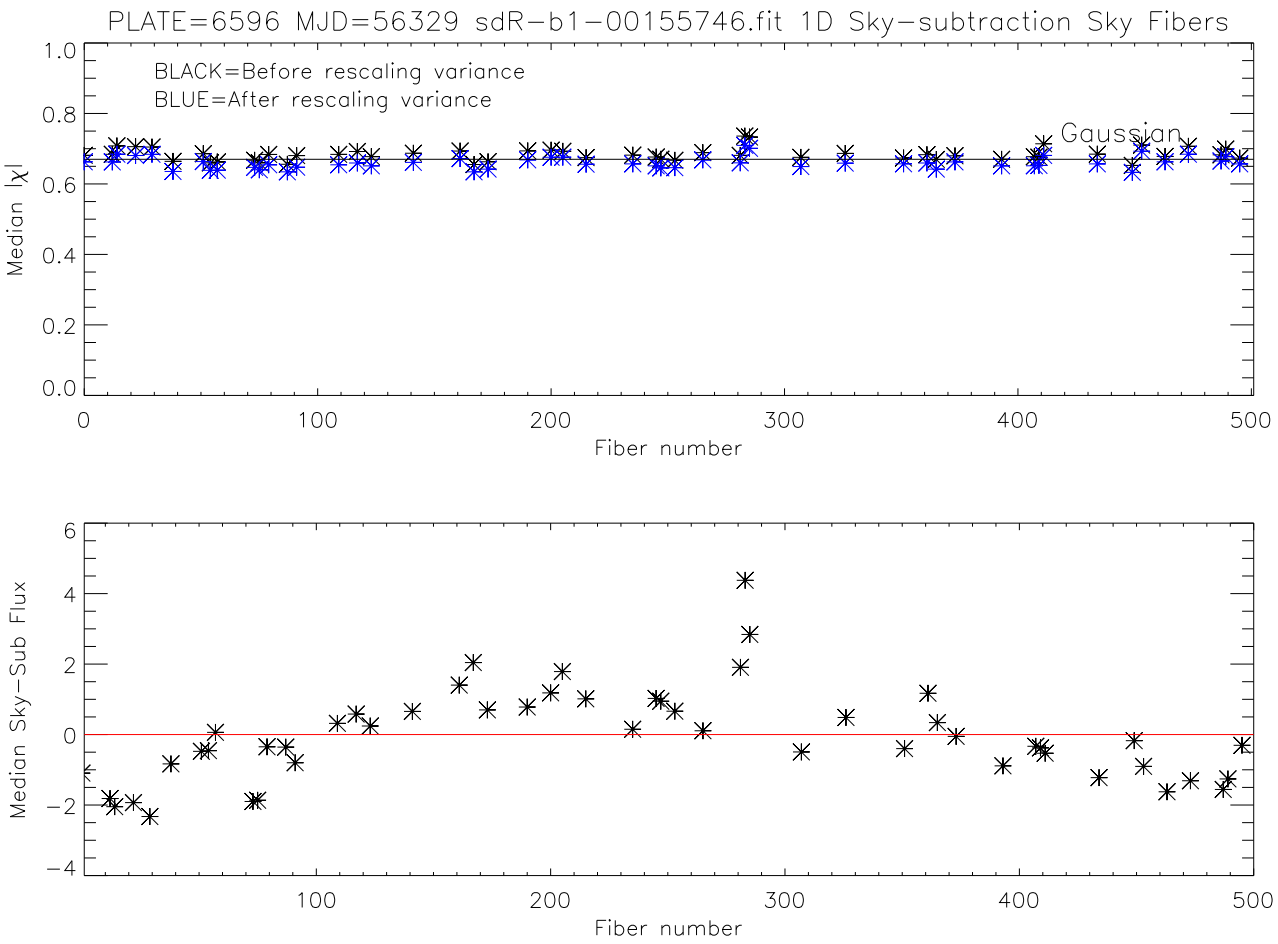

PLATE=6596 MJD=56329 sdR-b1-00155745.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
6000
4000
2000
0
−2000
RED = sky+fiber+
Dispersion = 18.88 %
0
100
200
300
400
500
Fiber number
Flux (5578.9)/Airmass
6000
4000
2000
0
−2000
0
100
200
300
400
Focal Distance [mm]
Flux (5578.9)/Airmass
6000
4000
2000
0
−2000
1.21
1.22
1.23
1.24
1.25
1.26
Airmass

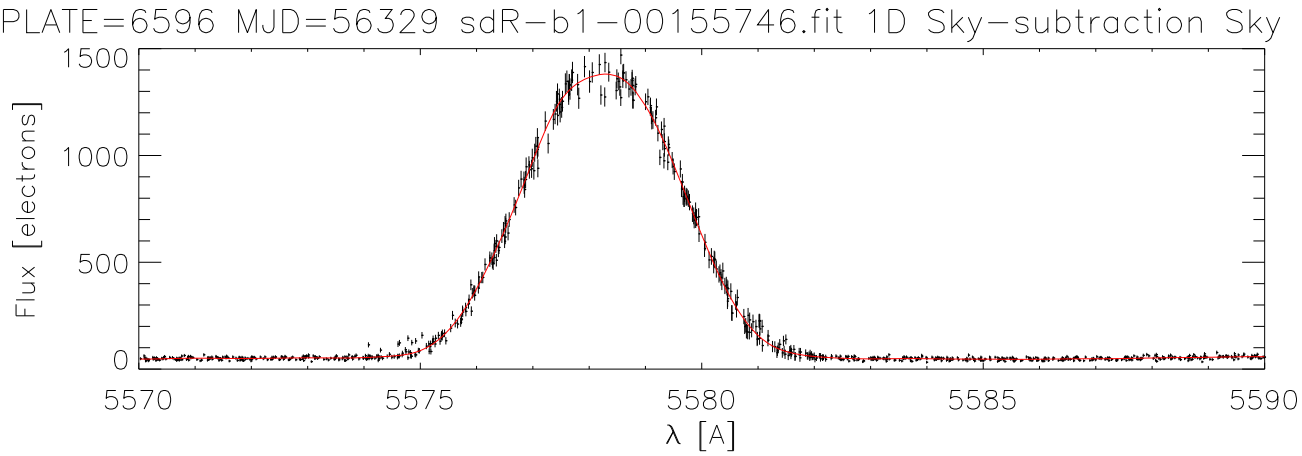

PLATE=6596 MJD=56329 Fiber−Flats for sdR−b1−00155743.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −4.337
Max value = 9.675
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sat May 28 08:33:02 2016

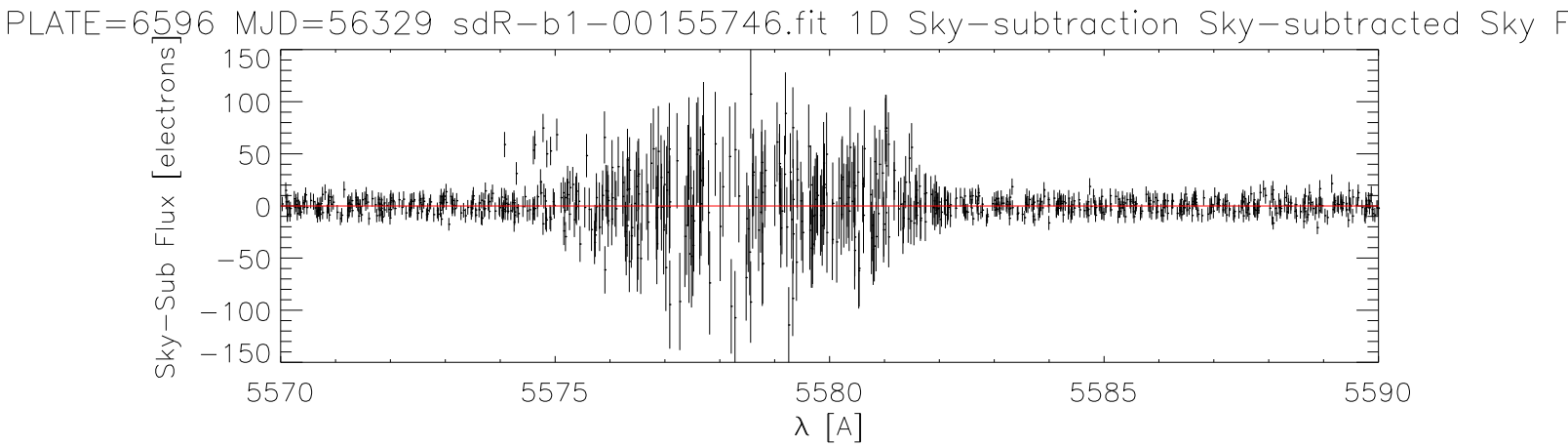

PLATE=6596 MJD=56329 Extraction chi^2 for sdR-b1-00155746.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=6596 MJD=56329 Sky Line Deviations for sdR-b1-00155746.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

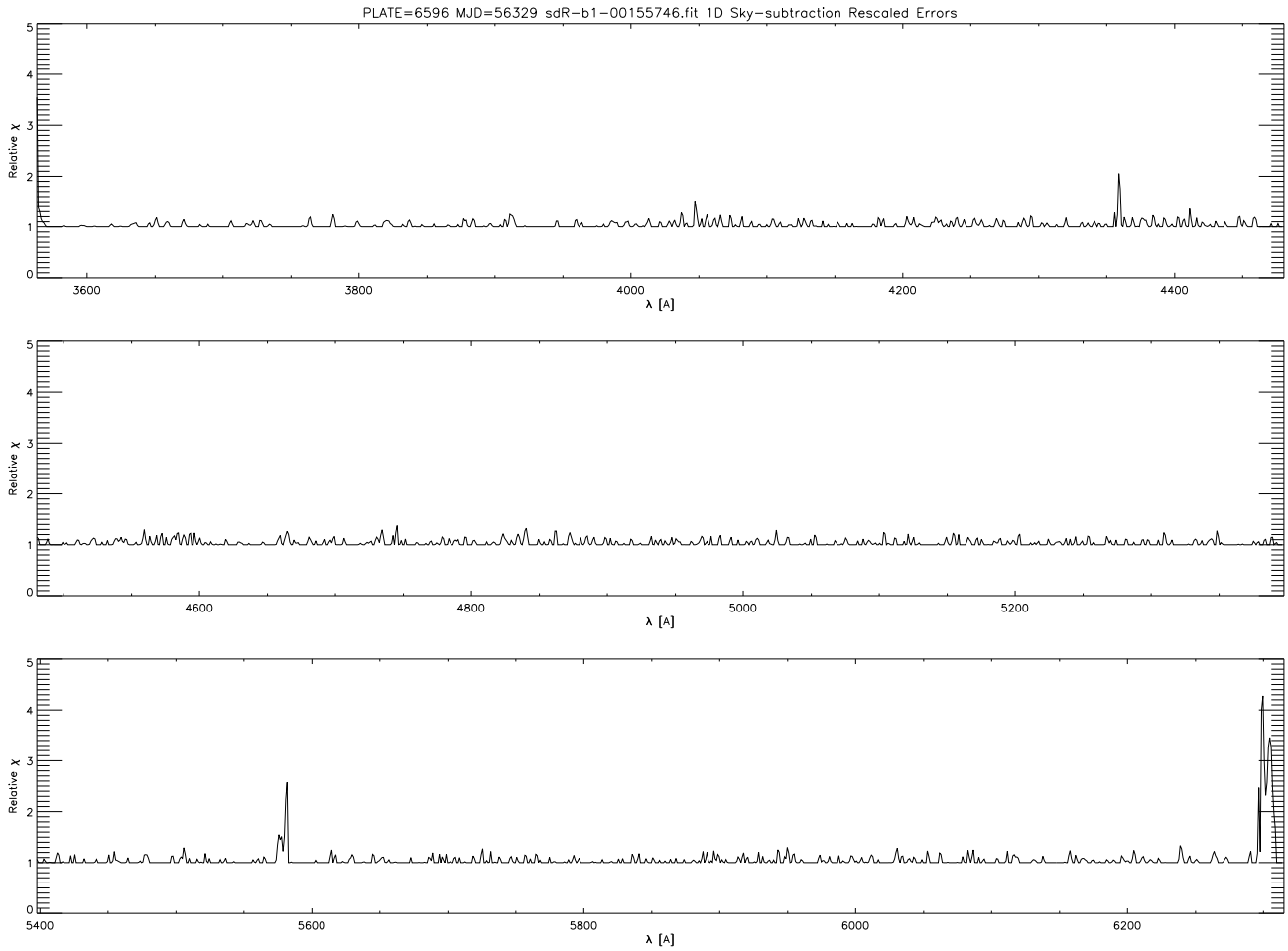

PLATE=6596 MJD=56329 Smooth superflat for sdR-b1-00155746.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

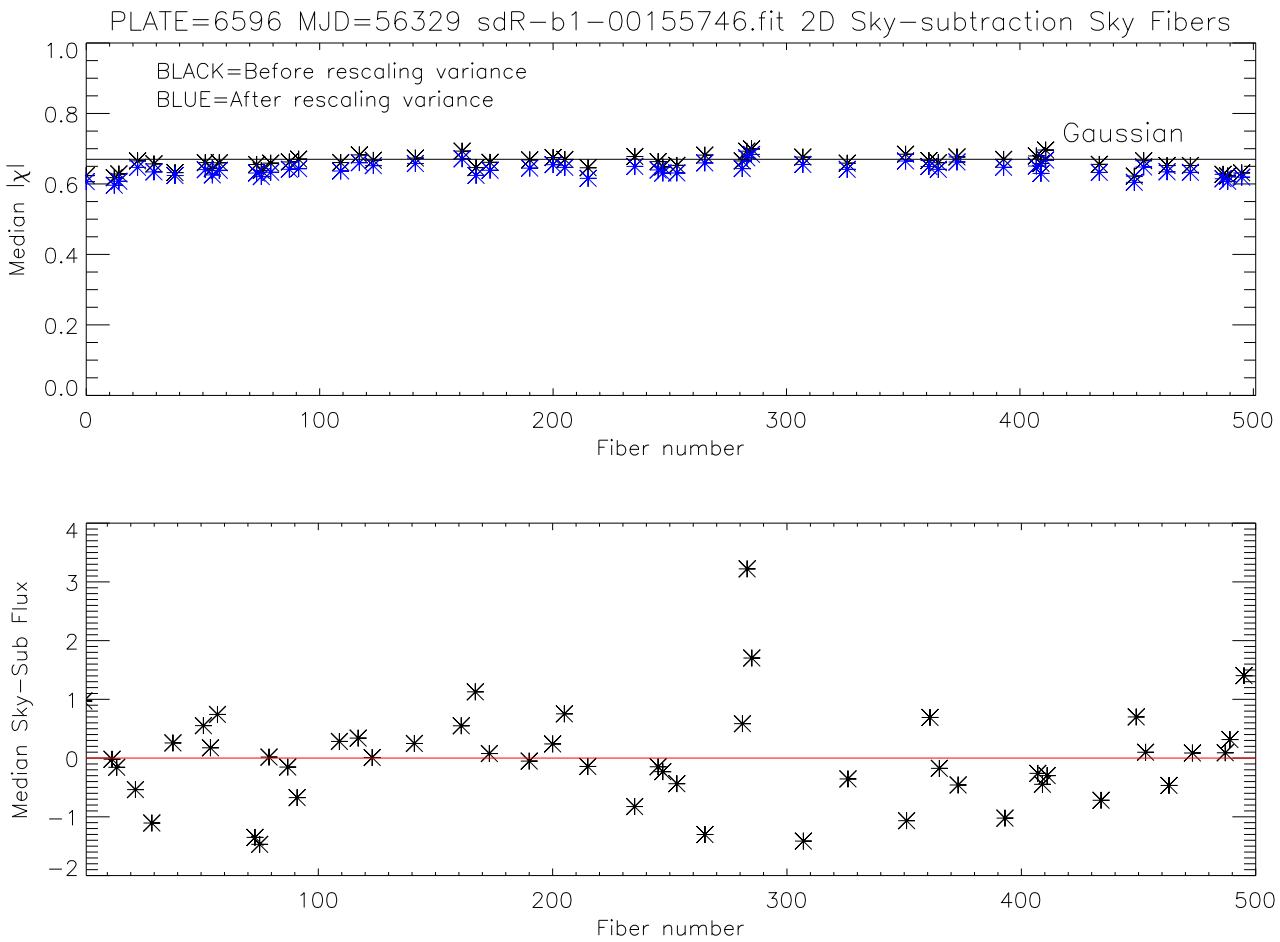

PLATE=6596 MJD=56329 sdR-b1-00155746.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

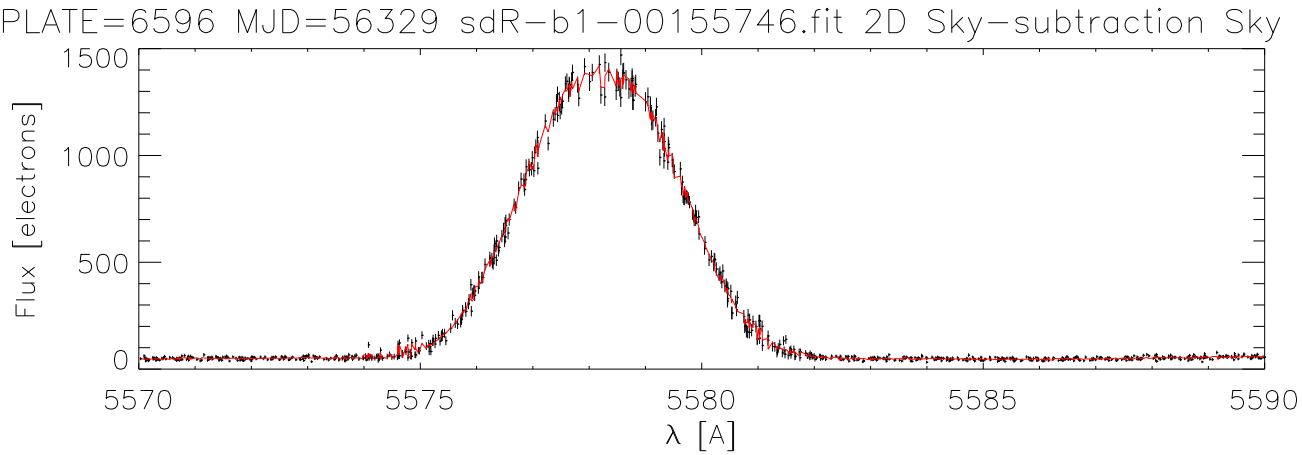

PLATE=6596 MJD=56329 sdR-b1-00155746.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

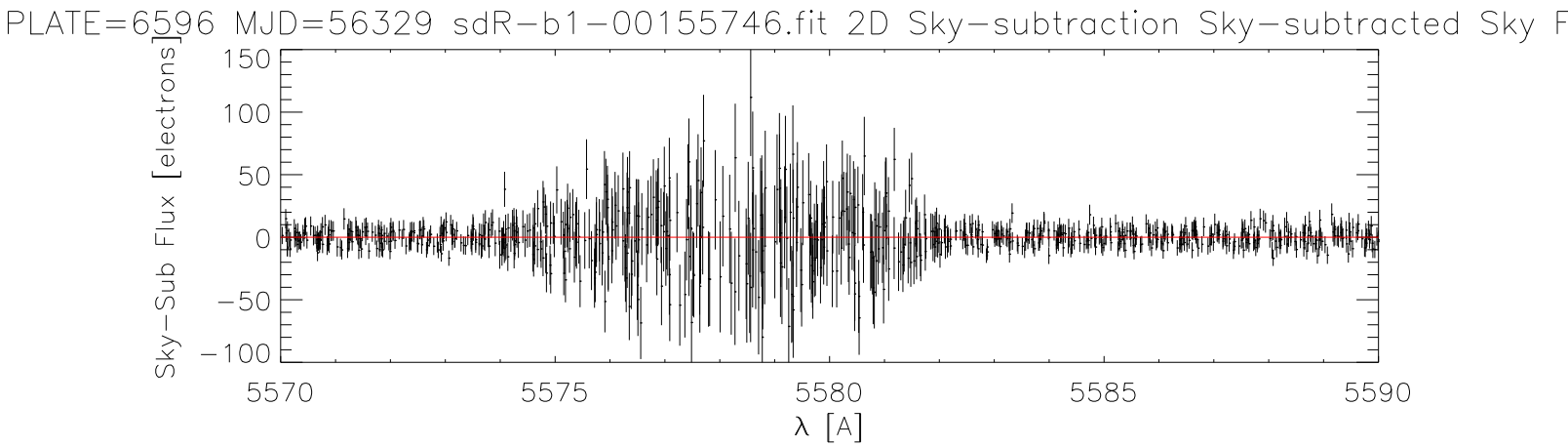

PLATE=6596 MJD=56329 sdR-b1-00155746.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 51

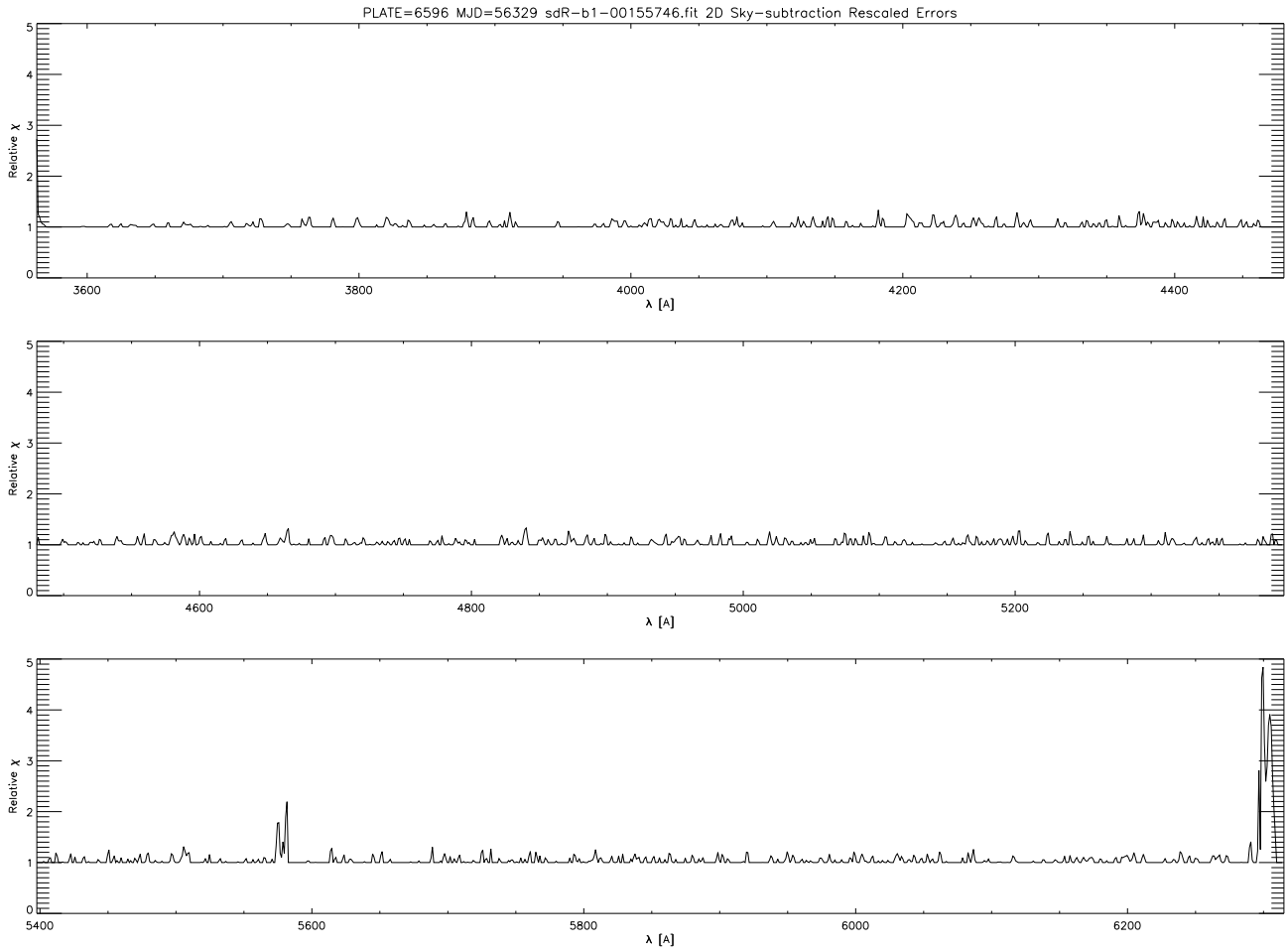


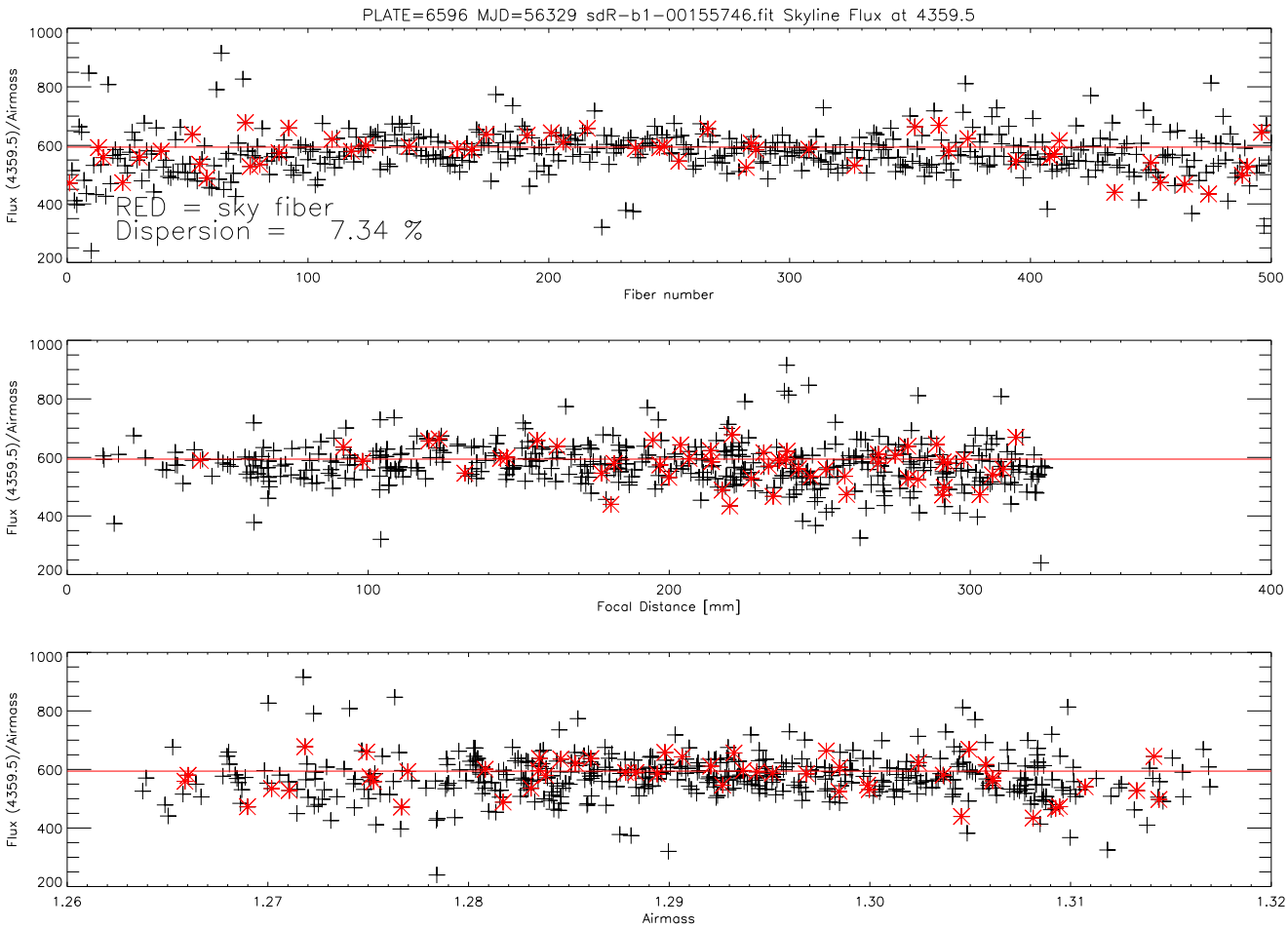

PLATE=6596 MJD=56329 sdR-b1-00155746.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

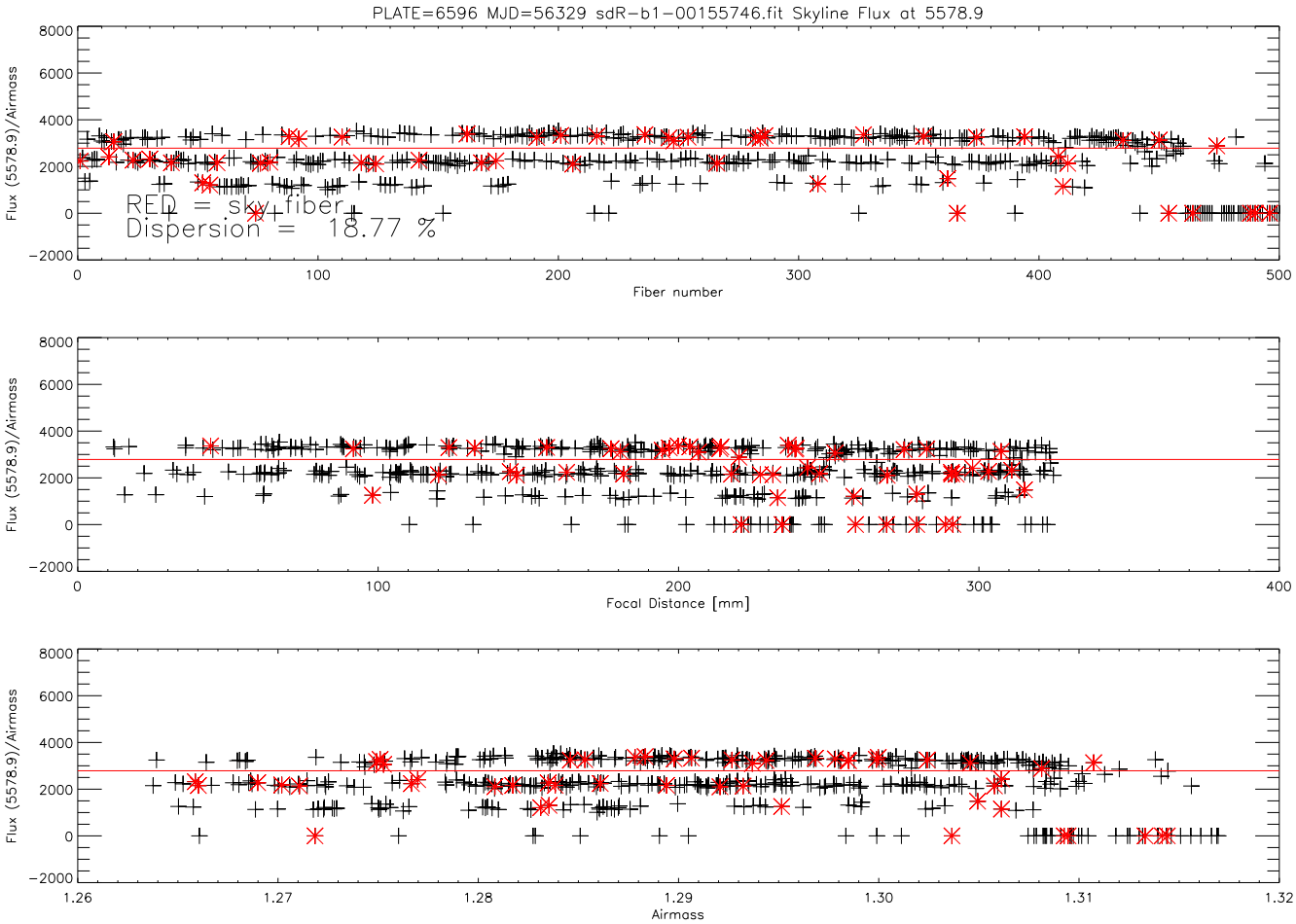

PLATE=6596 MJD=56329 sdR-b1-00155746.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]


PLATE=6596 MJD=56329 sdR-b1-00155746.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]

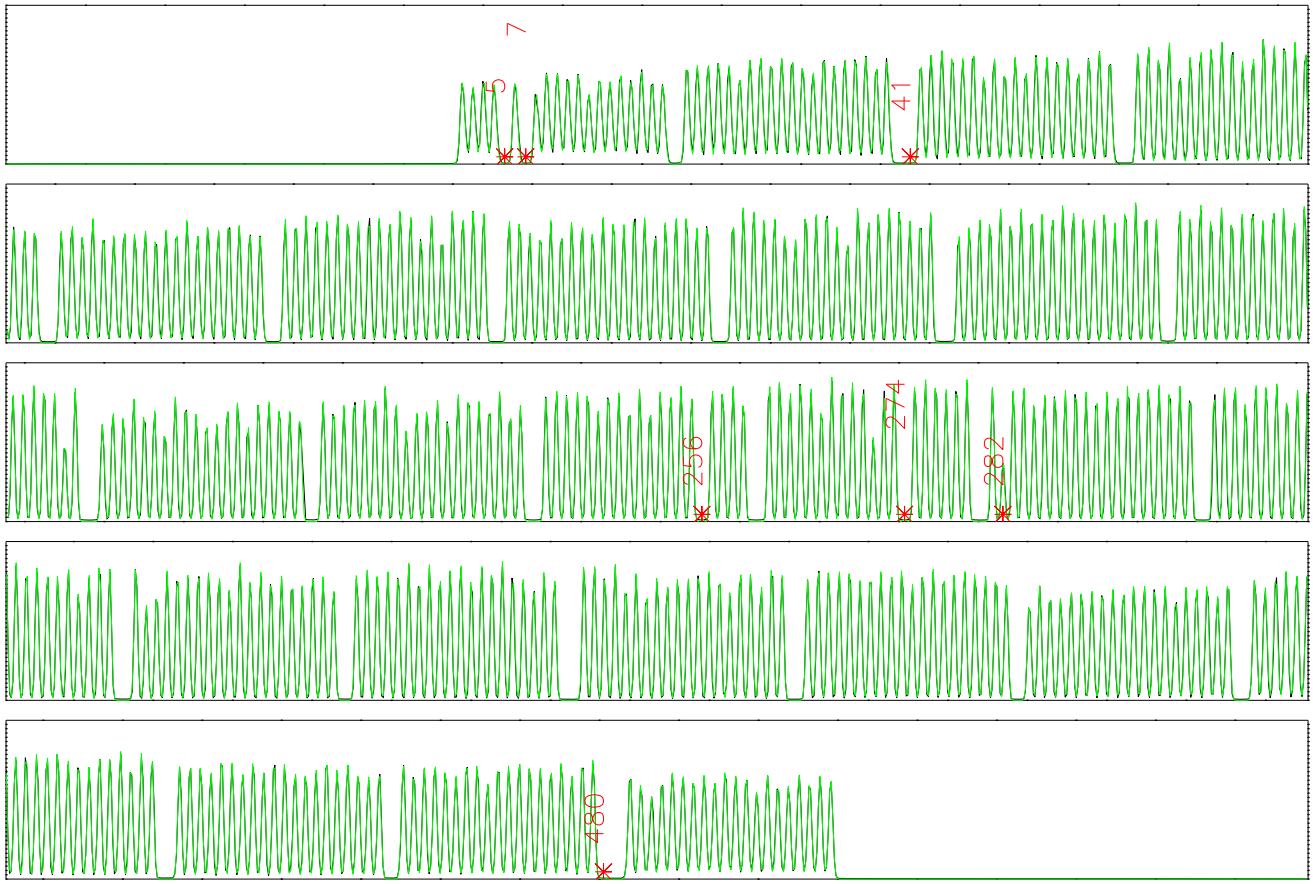
Number of sky fibers = 51

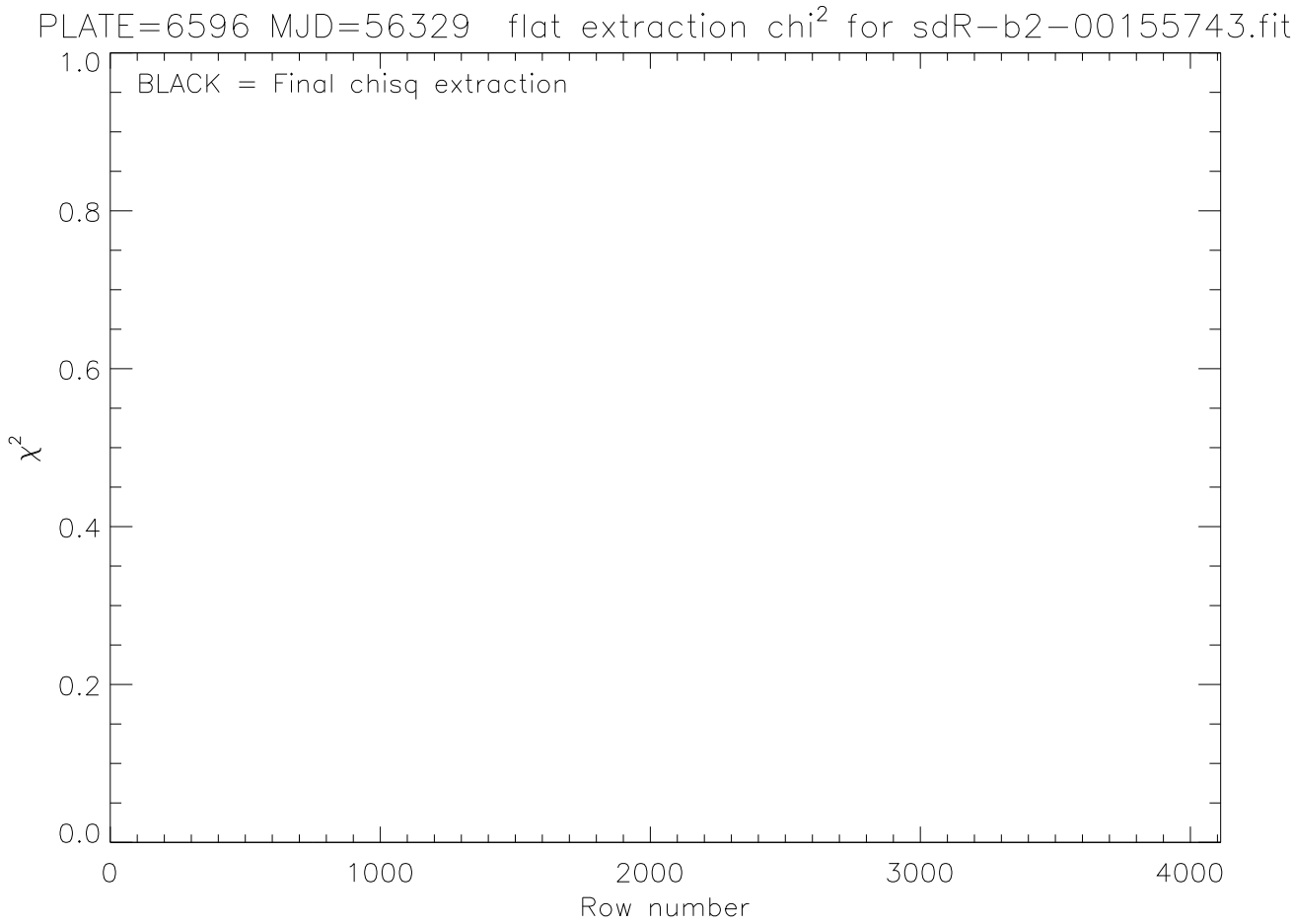


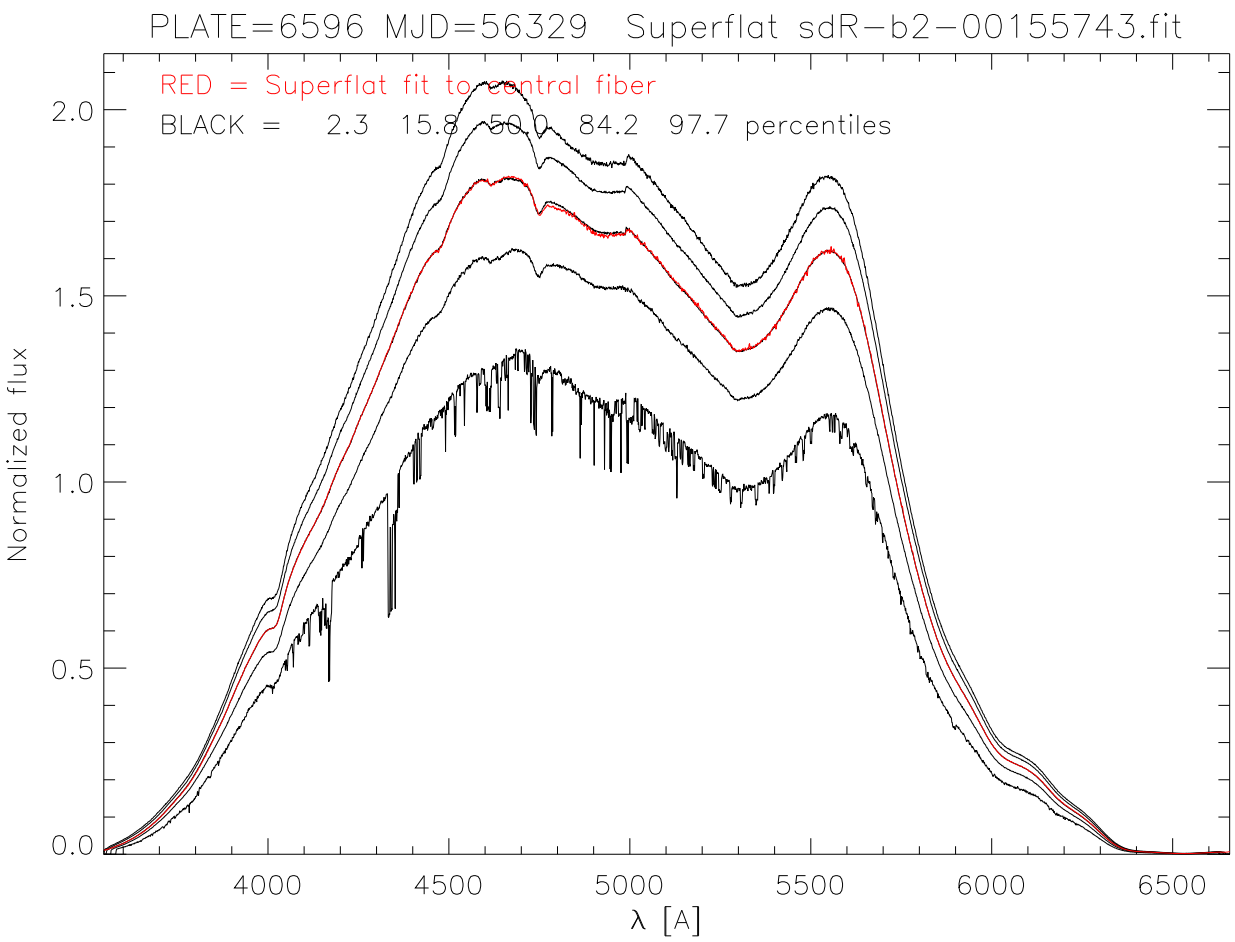

PLATE=6596 MJD=56329 sdR-b1-00155746.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 7.34 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

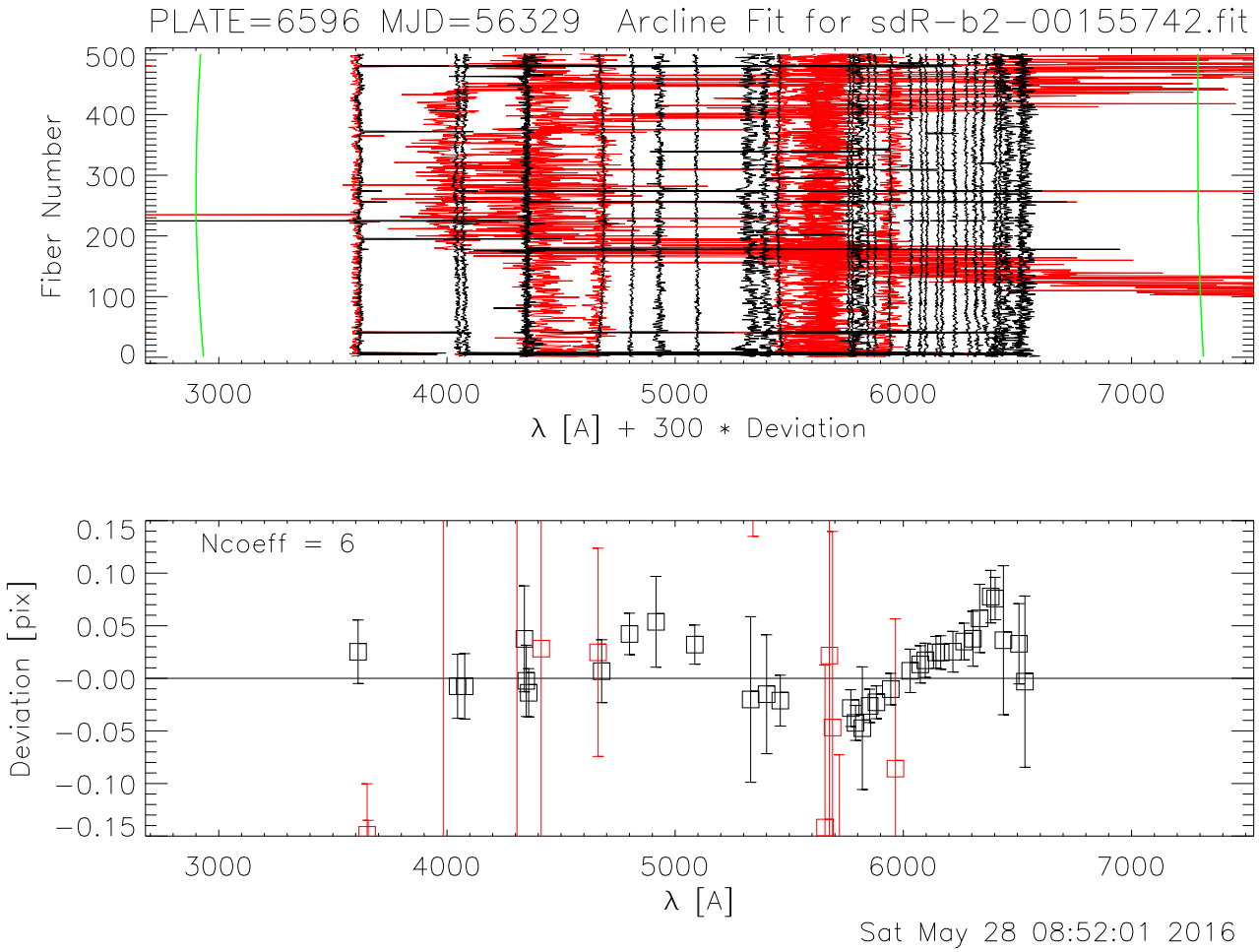

PLATE=6596 MJD=56329 sdR-b1-00155746.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 18.77 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

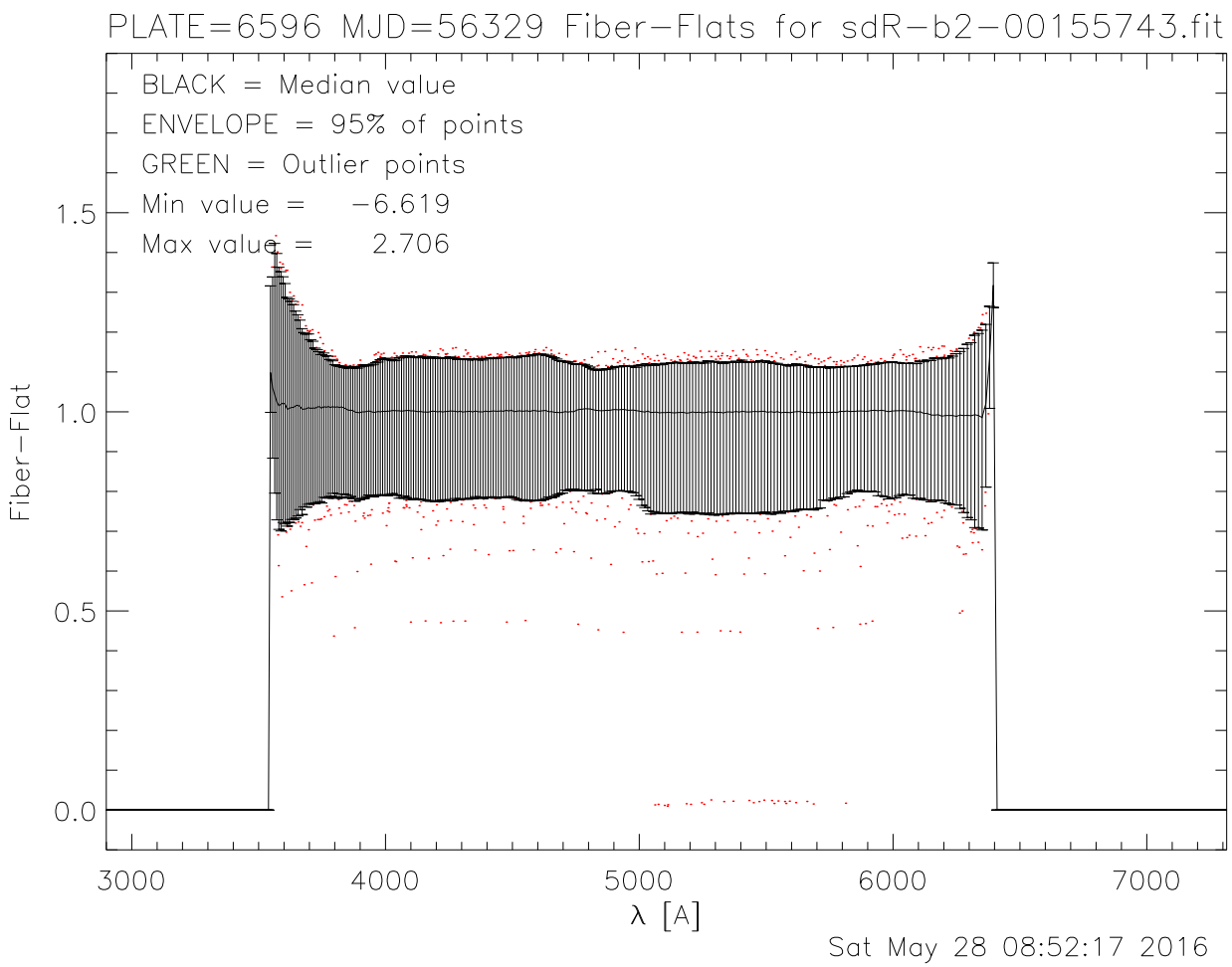
PLATE=6596 MJD=56329 Traces sdR-b2-00155743.fit

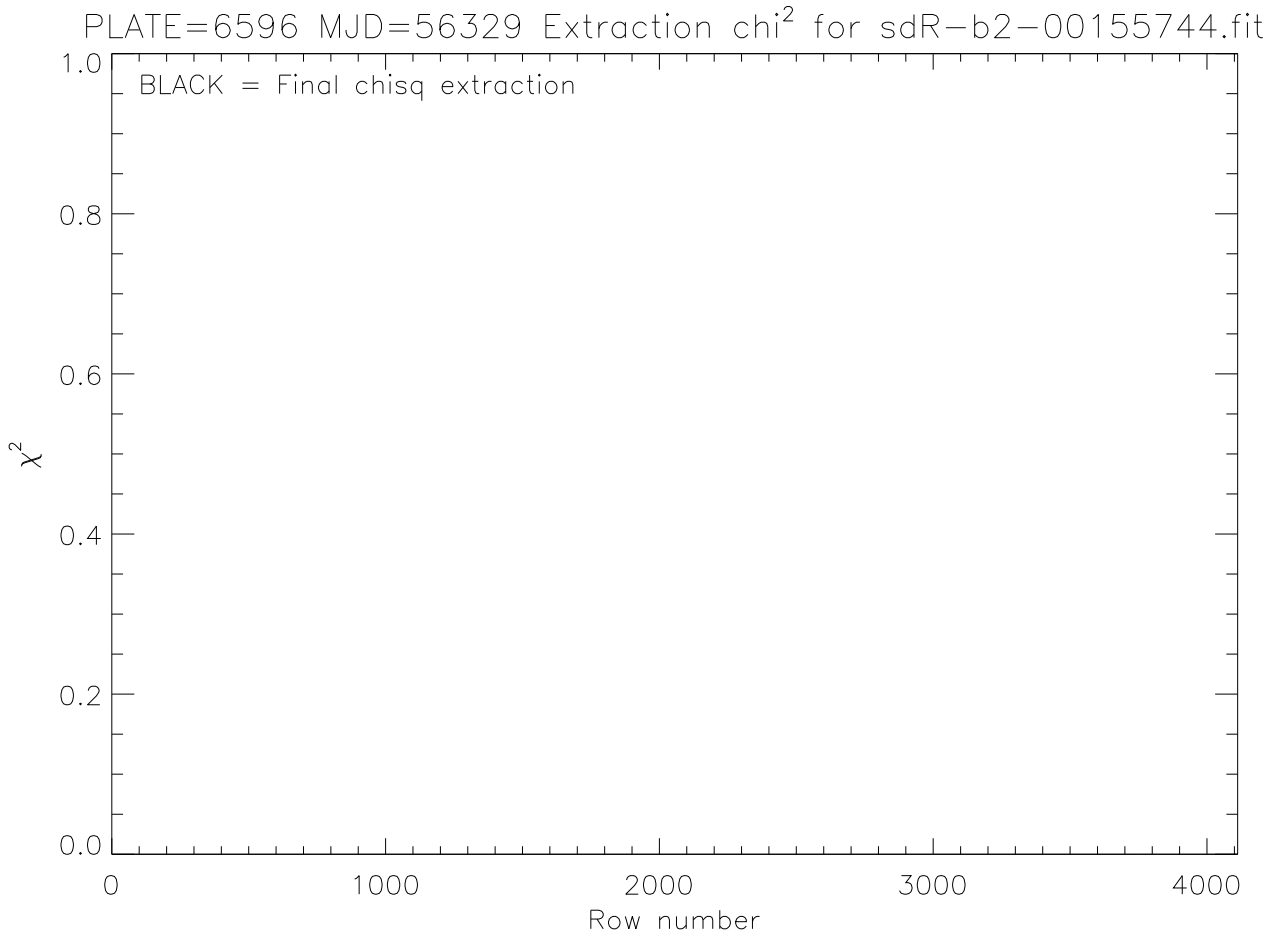


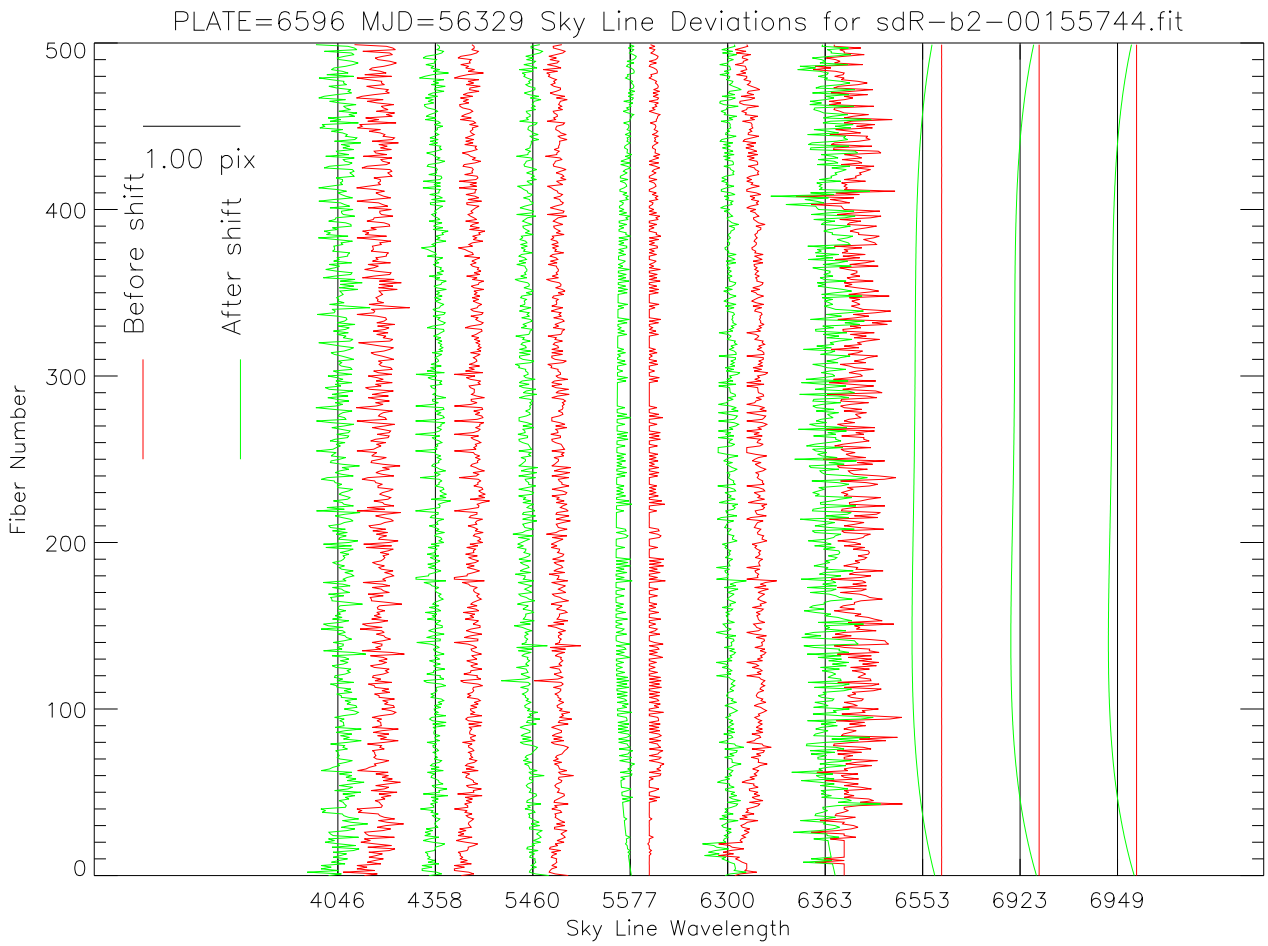

PLATE=6596 MJD=56329 flat extraction chi^2 for sdR−b2−00155743.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number

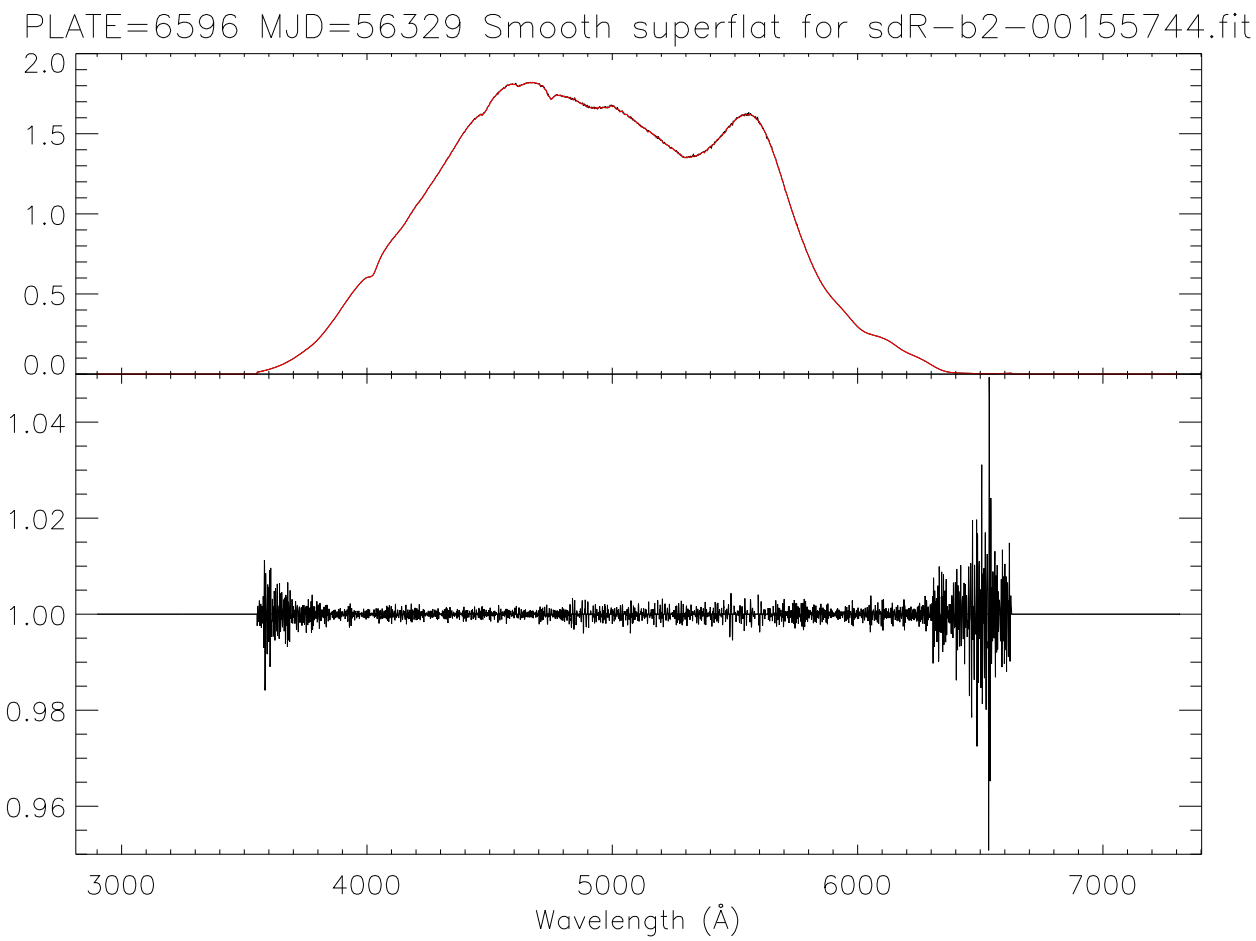

PLATE=6596 MJD=56329 Superflat sdR-b2-00155743.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
4000
4500
5000
5500
6000
6500

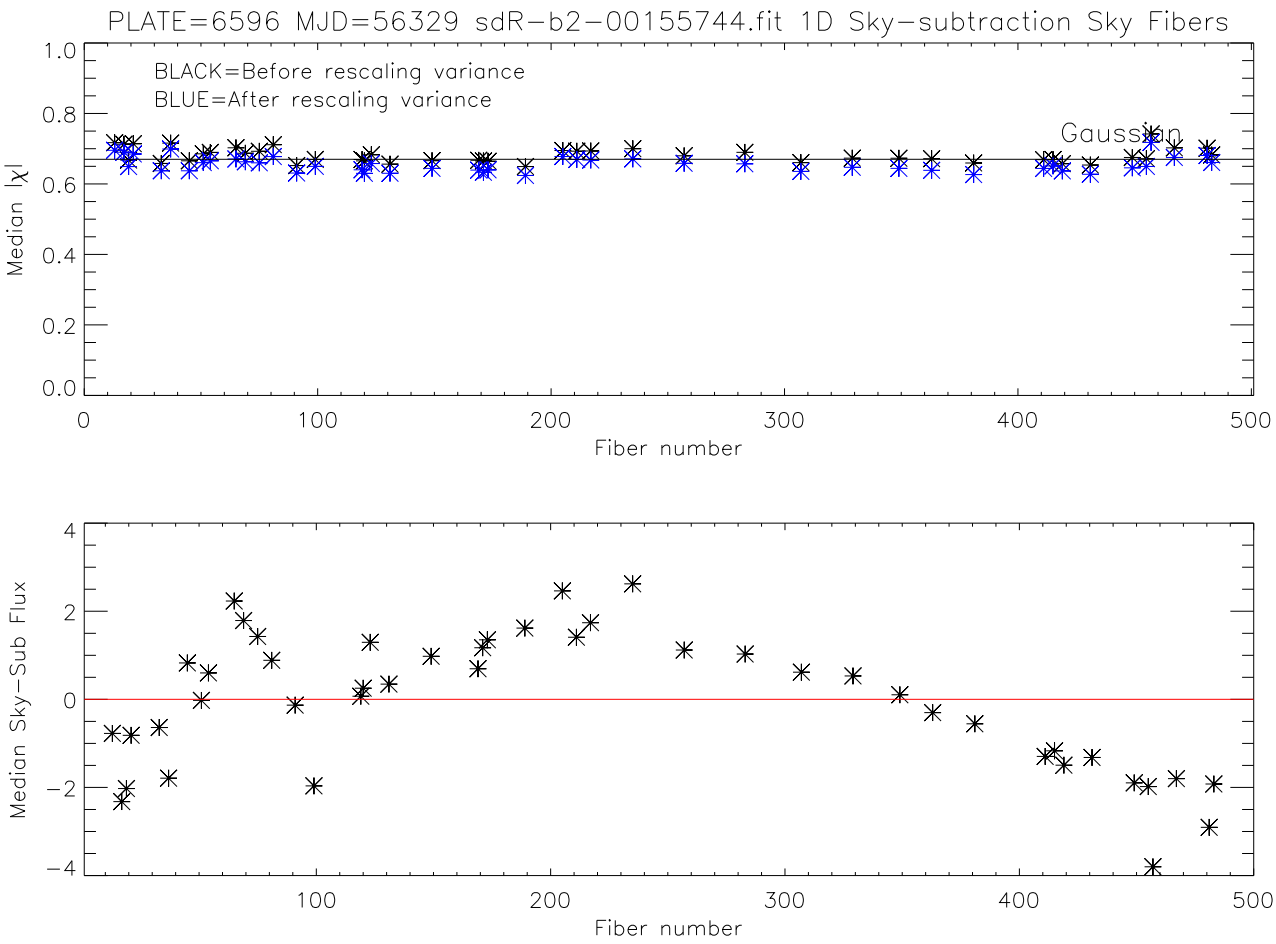

PLATE=6596 MJD=56329 Arcline Fit for sdR-b2-00155742.fit
Fiber Number
500
400
300
200
100
0
3000
4000
5000
6000
7000
λ [A] + 300 * Deviation
Ncoeff = 6
Deviation [pix]
0.15
0.10
0.05
−0.00
−0.05
−0.10
−0.15
3000
4000
5000
6000
7000
λ [A]
Sat May 28 08:52:01 2016

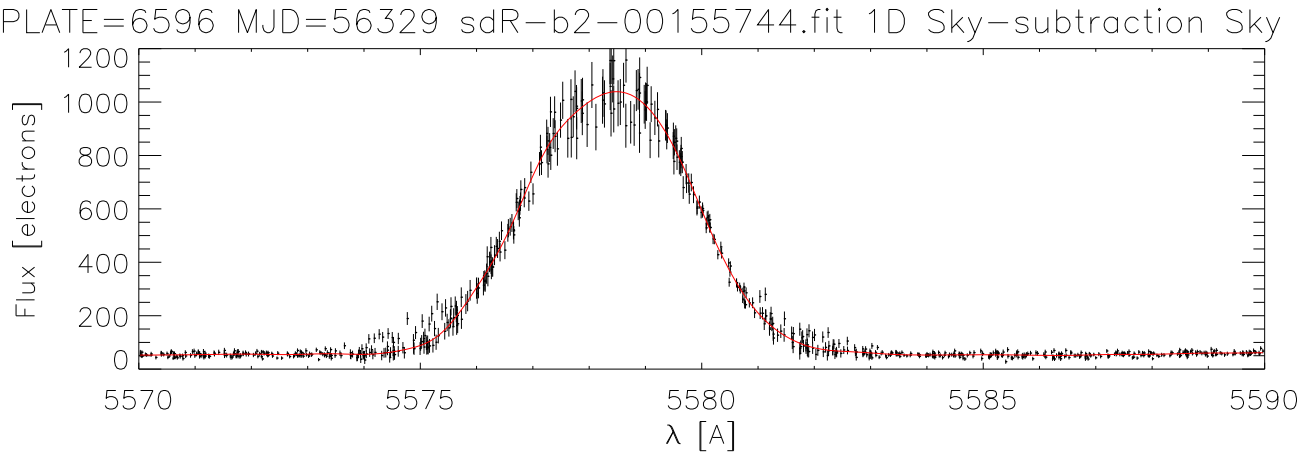

PLATE=6596 MJD=56329 Fiber-Flats for sdR-b2-00155743.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = -6.619
Max value = 2.706
Fiber-Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sat May 28 08:52:17 2016

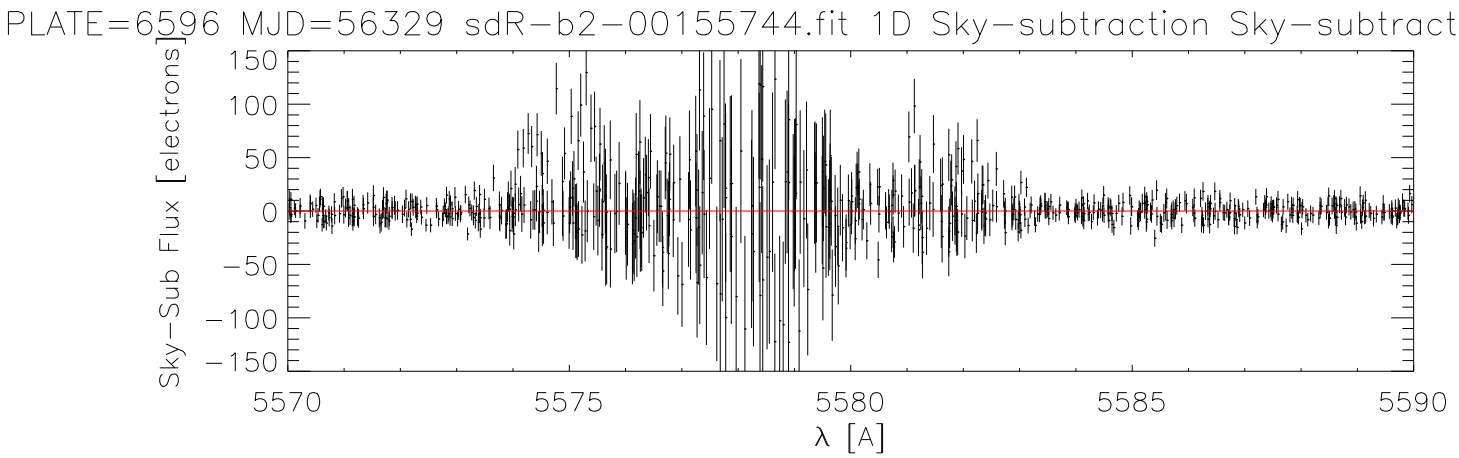

PLATE=6596 MJD=56329 Extraction chi^2 for sdR-b2-00155744.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=6596 MJD=56329 Sky Line Deviations for sdR-b2-00155744.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

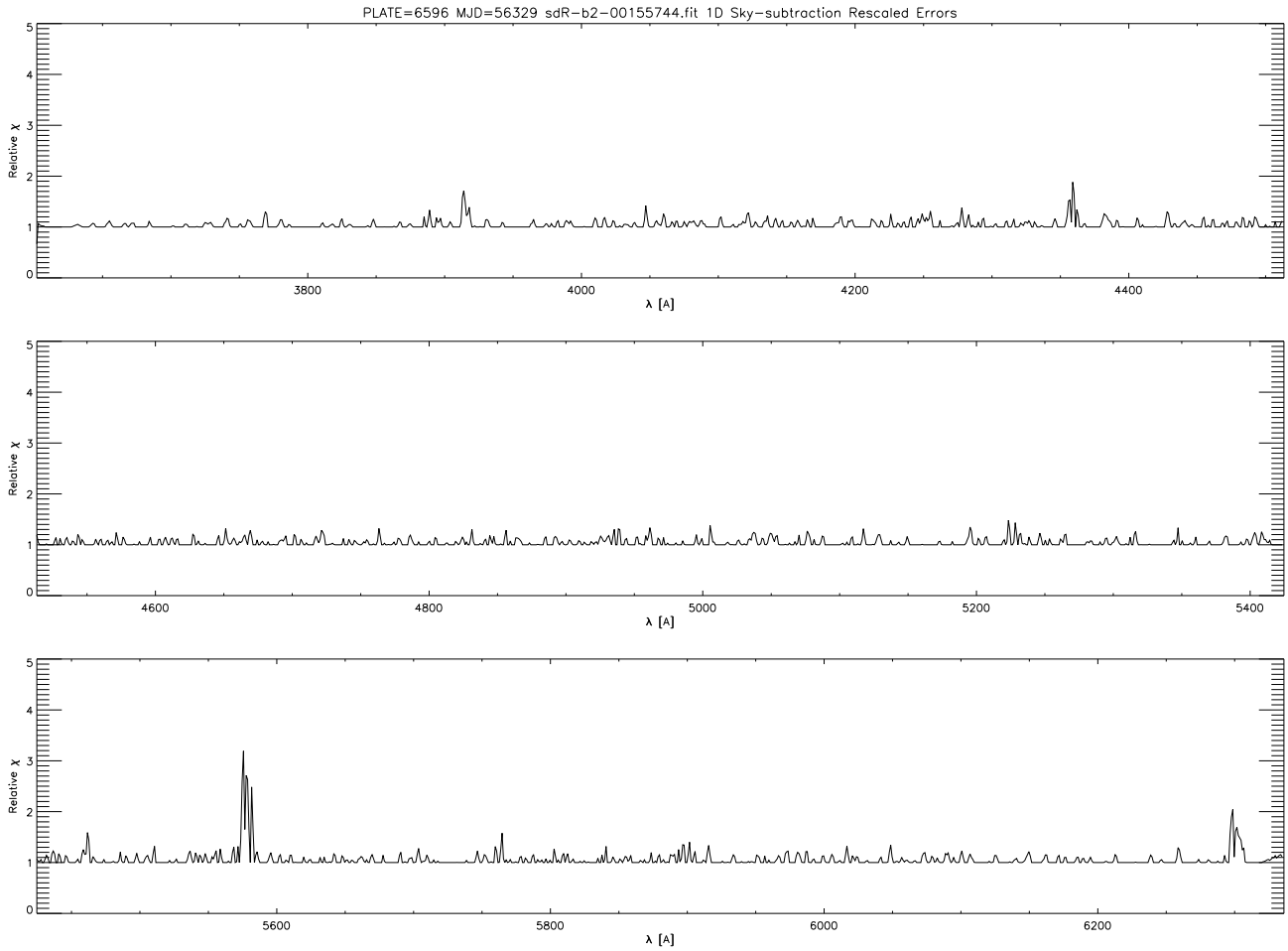

PLATE=6596 MJD=56329 Smooth superflat for sdR-b2-00155744.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

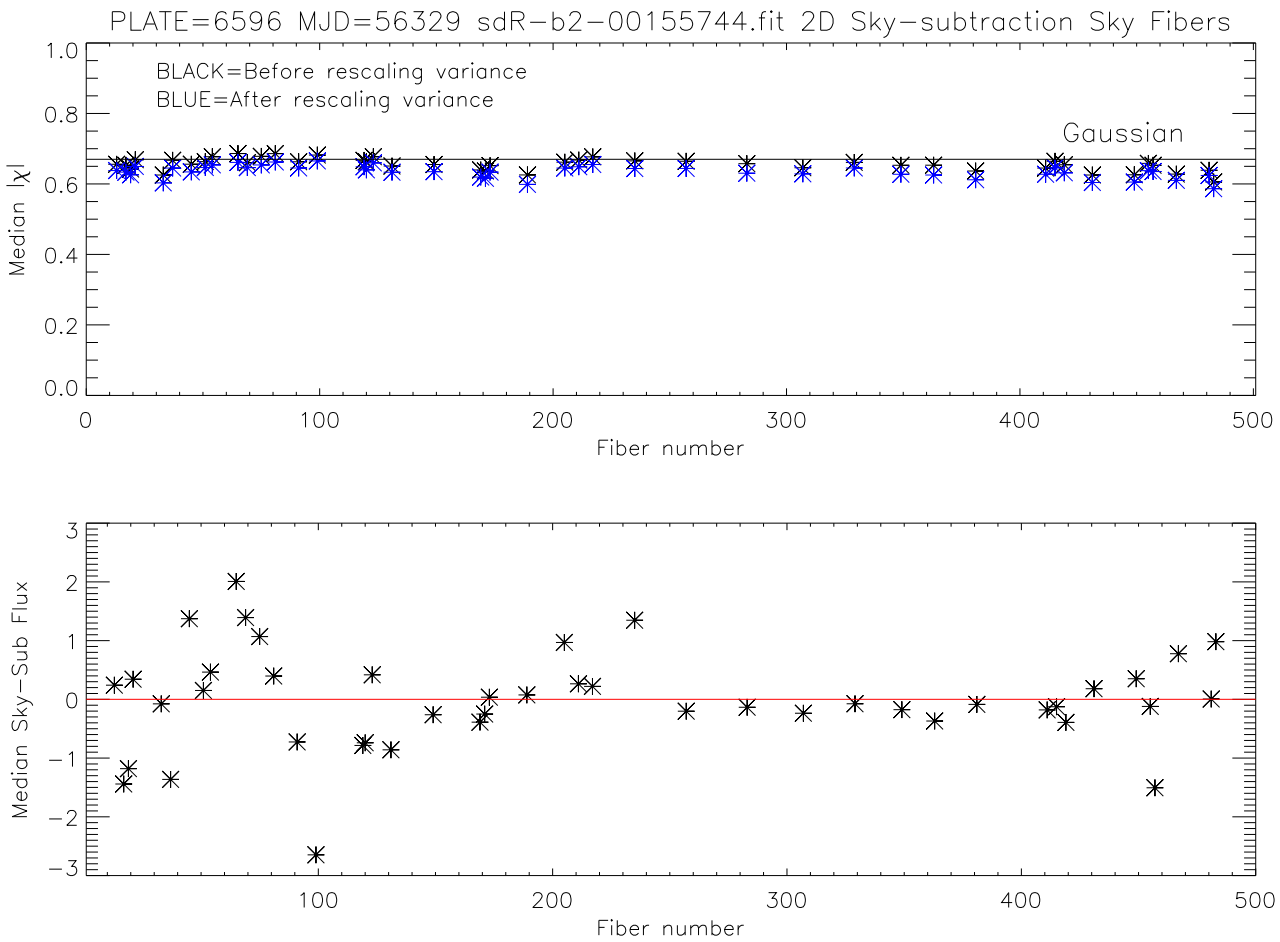

PLATE=6596 MJD=56329 sdR-b2-00155744.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

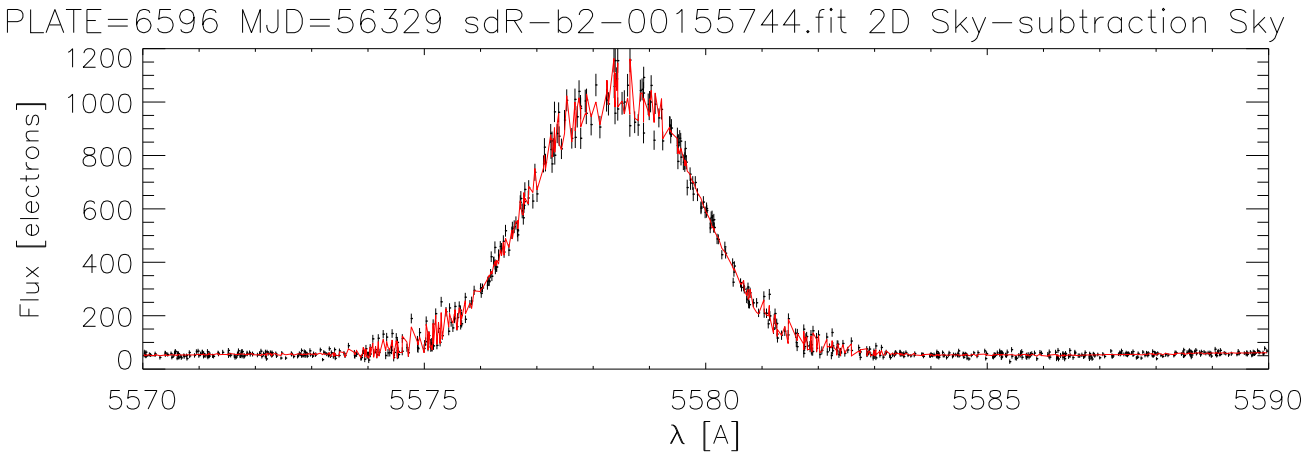

PLATE=6596 MJD=56329 sdR-b2-00155744.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1200
1000
800
600
400
200
0
5570
5575
5580
5585
5590
λ [A]

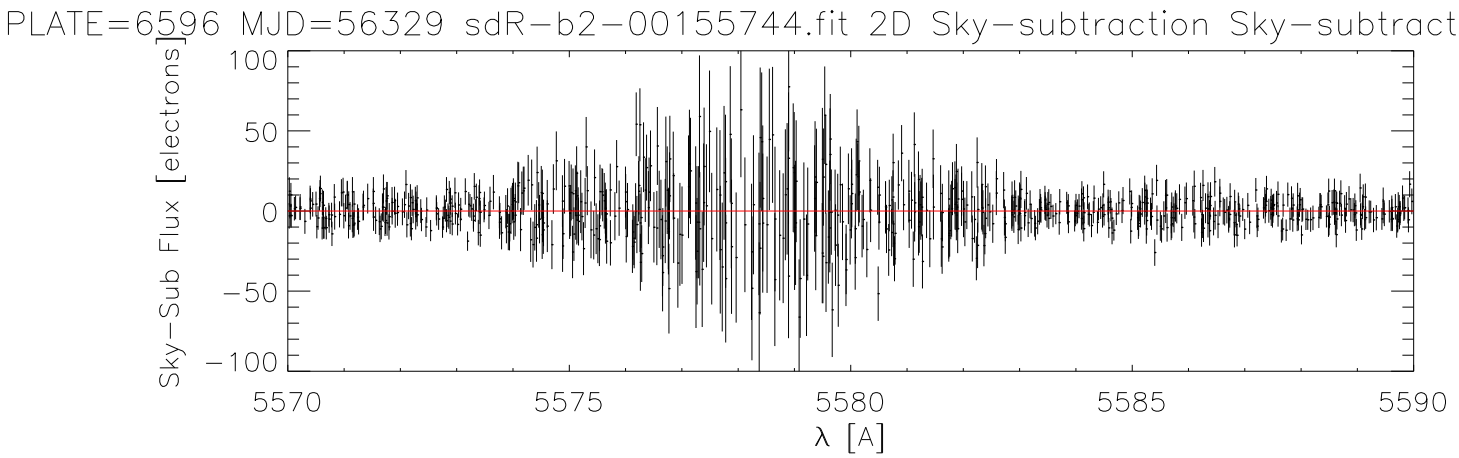

PLATE=6596 MJD=56329 sdR-b2-00155744.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 45

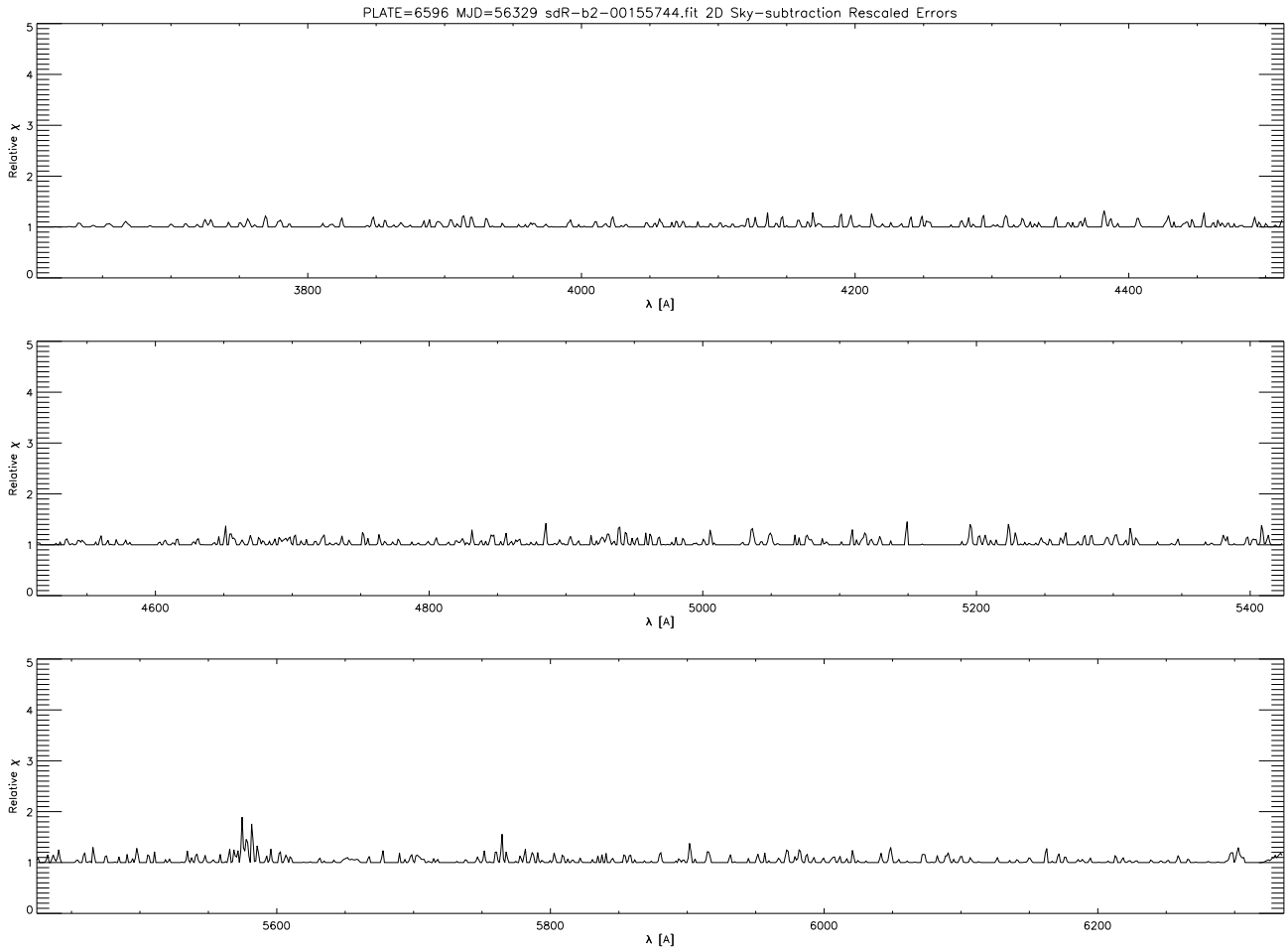


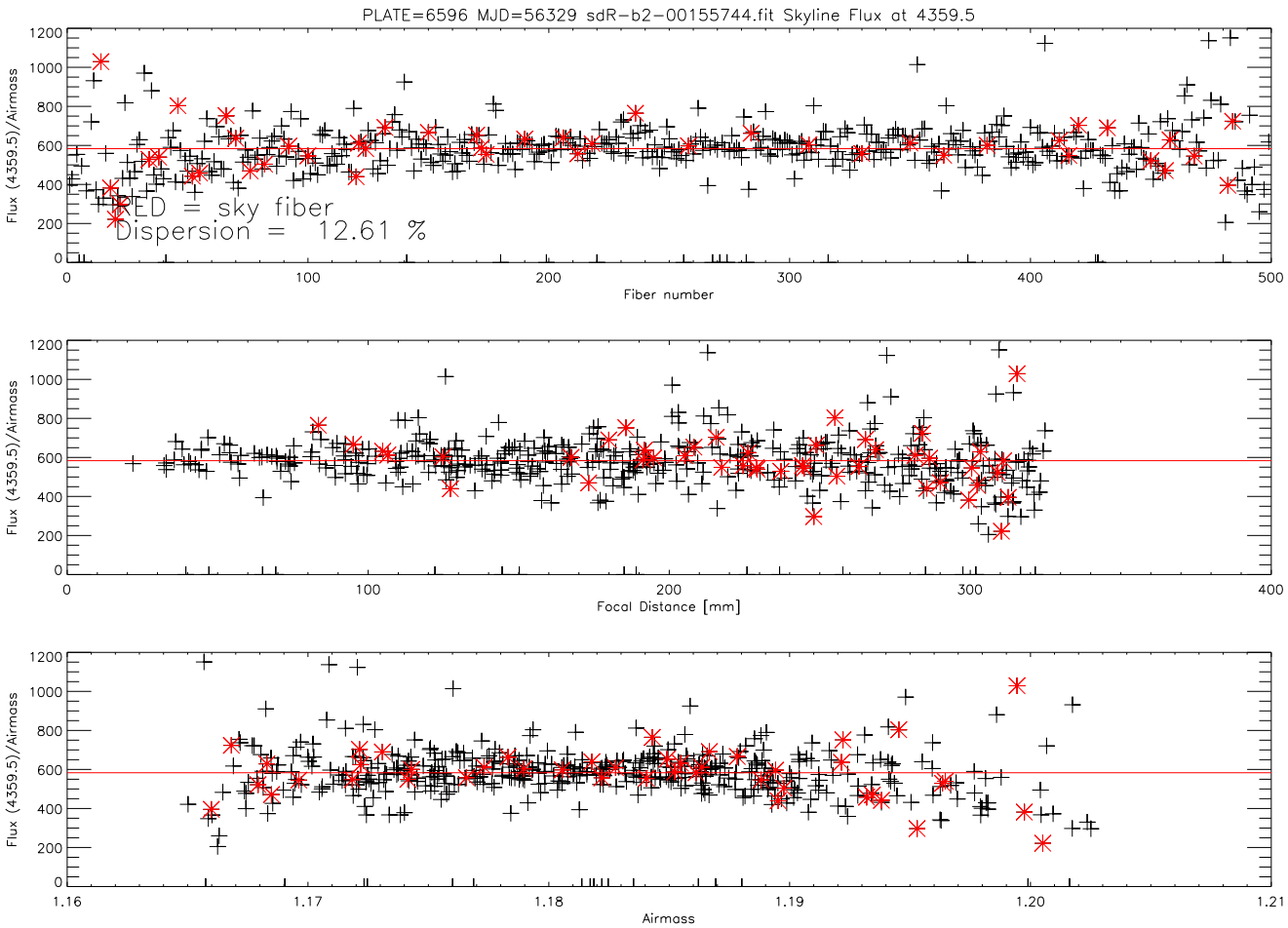

PLATE=6596 MJD=56329 sdR-b2-00155744.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

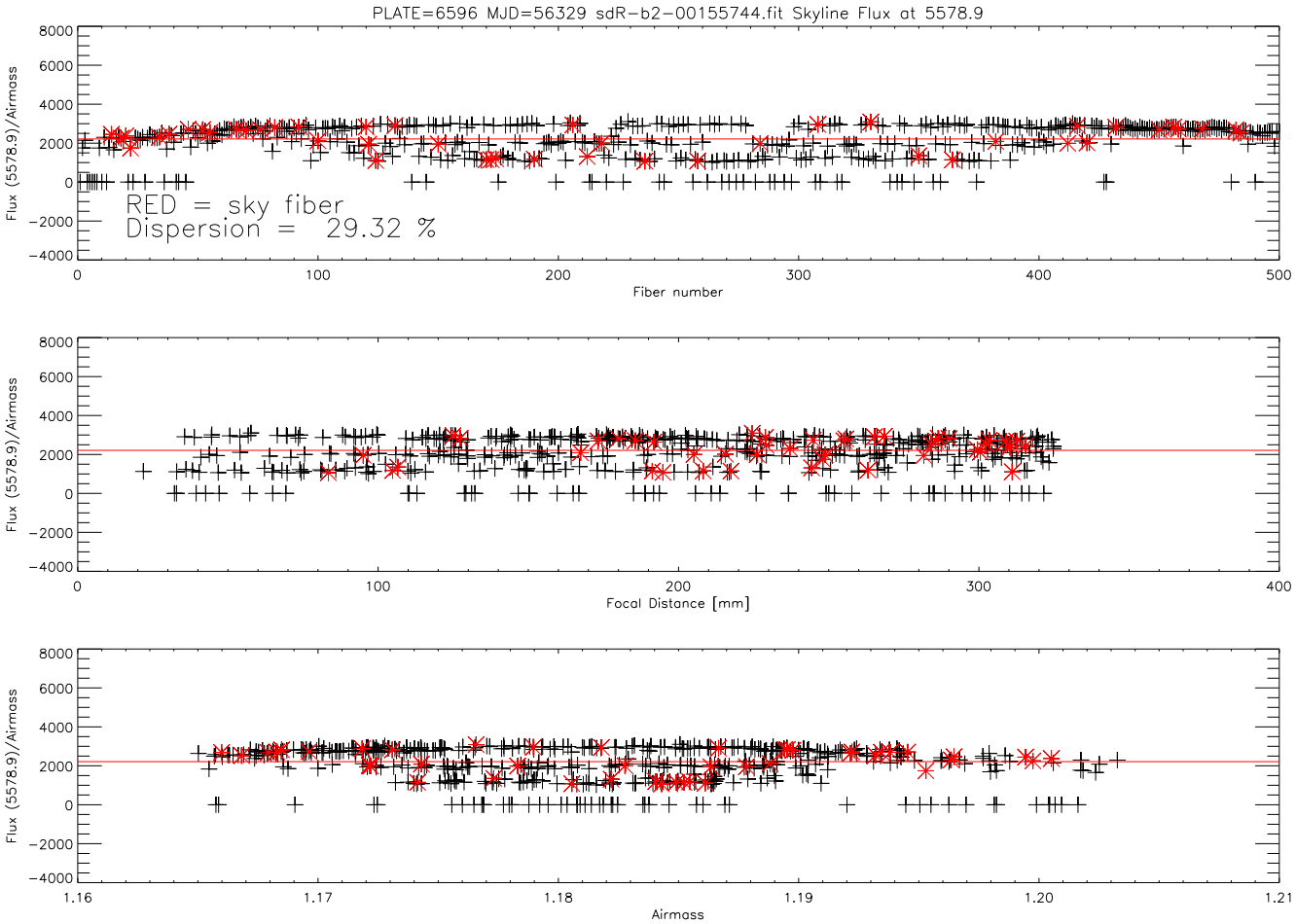

PLATE=6596 MJD=56329 sdR-b2-00155744.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1200
1000
800
600
400
200
0
5570
5575
5580
5585
5590
λ [A]

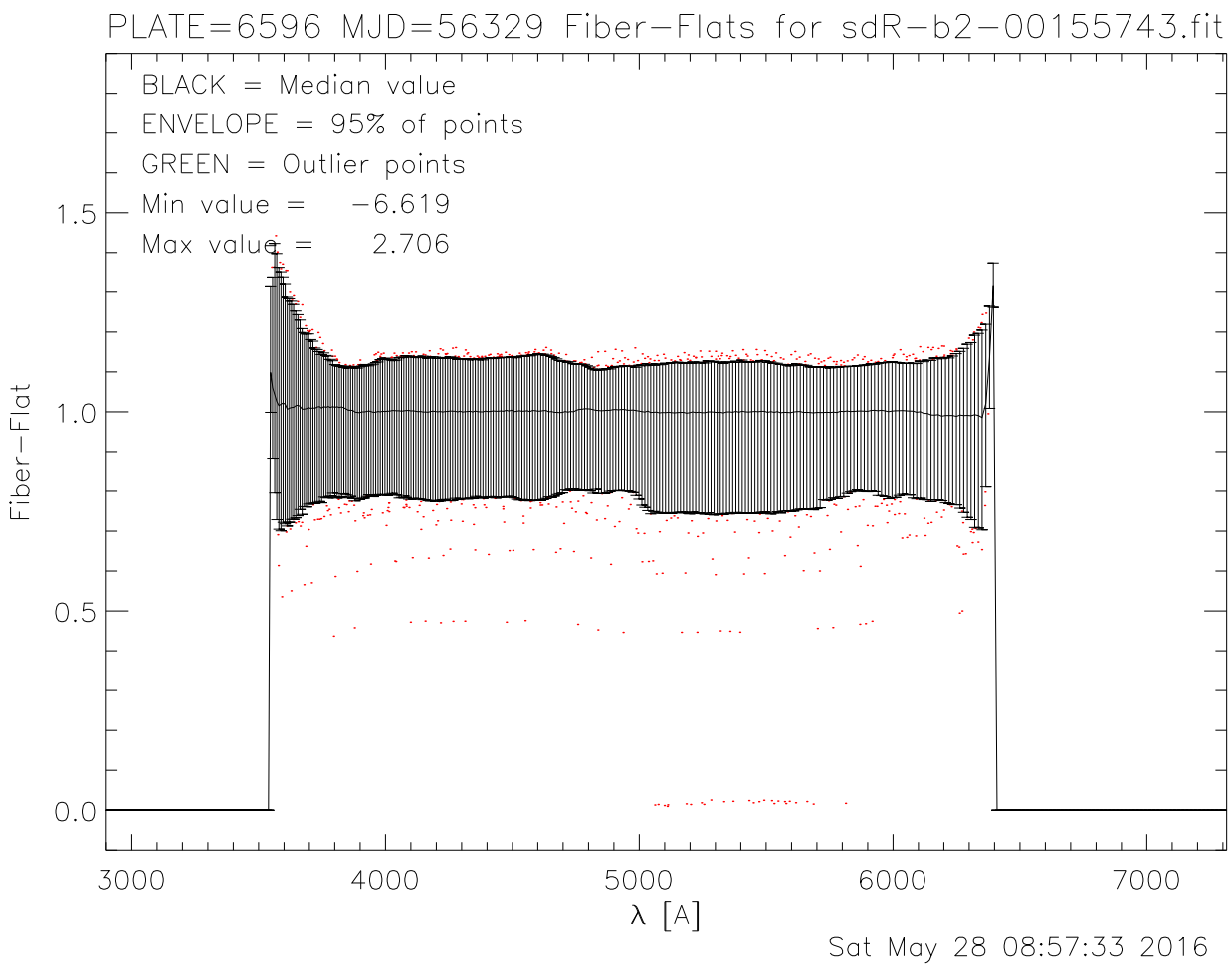

PLATE=6596 MJD=56329 sdR-b2-00155744.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
5570
5575
5580
5585
5590
λ [A]

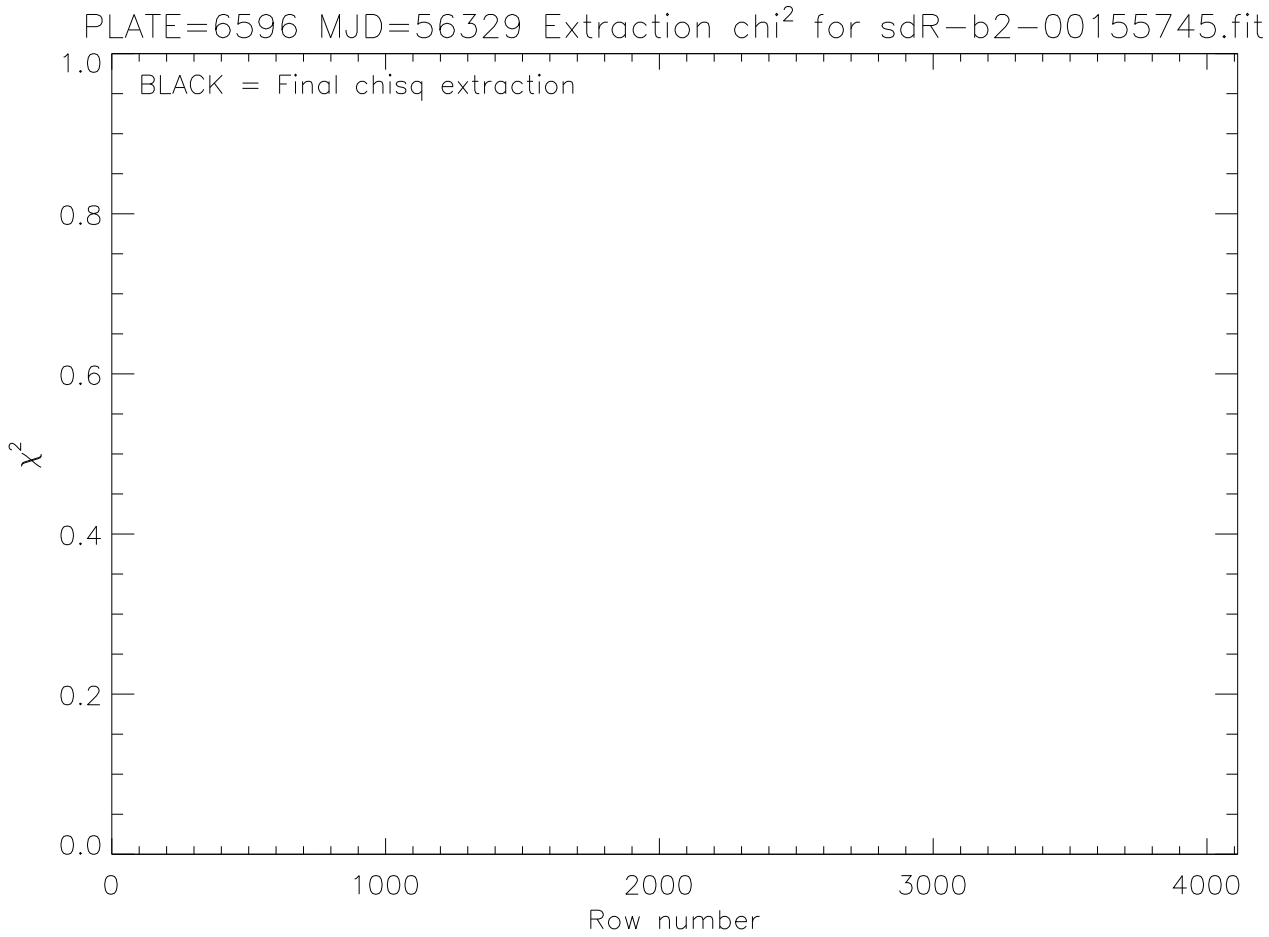
Number of sky fibers = 45

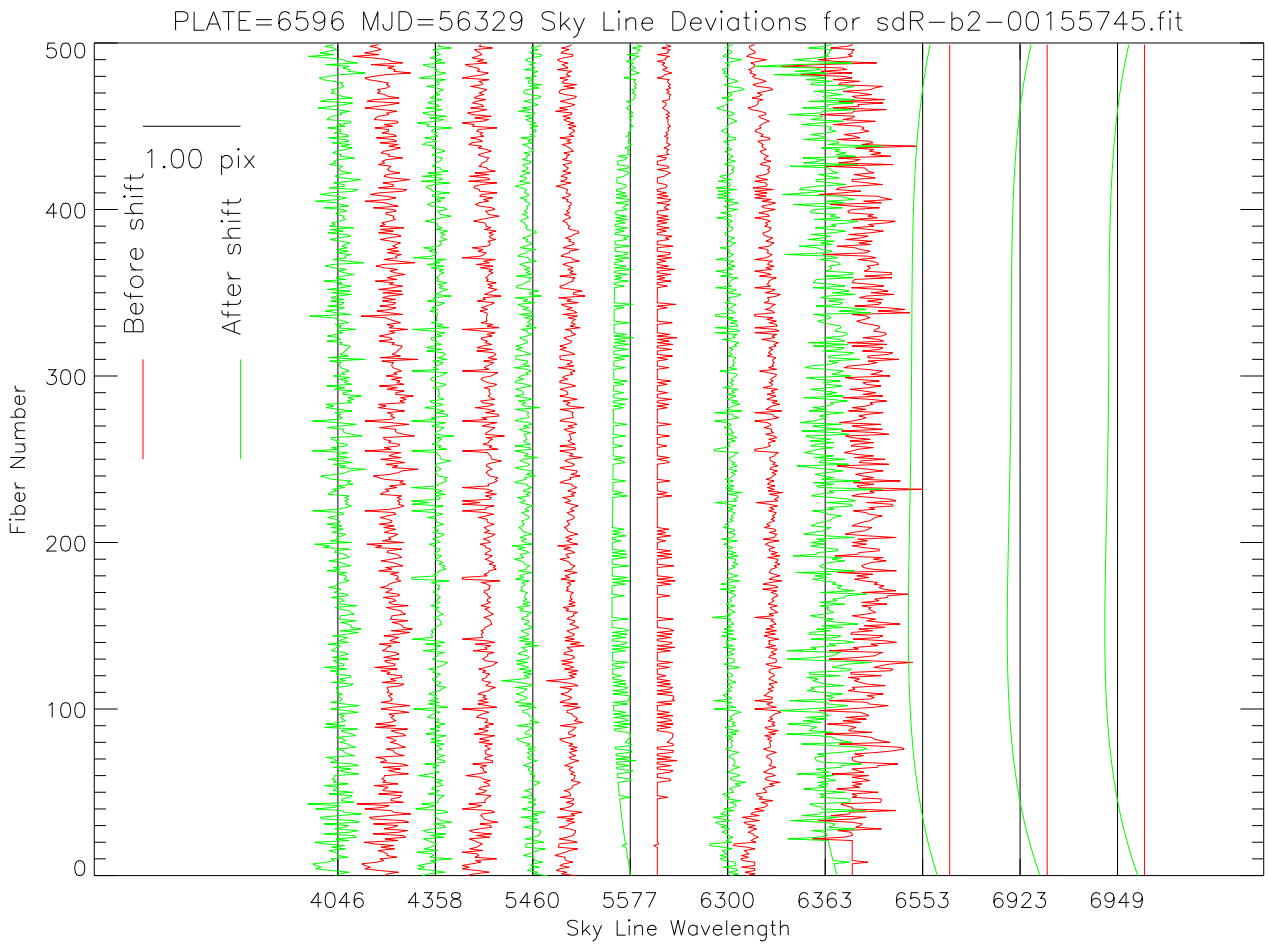


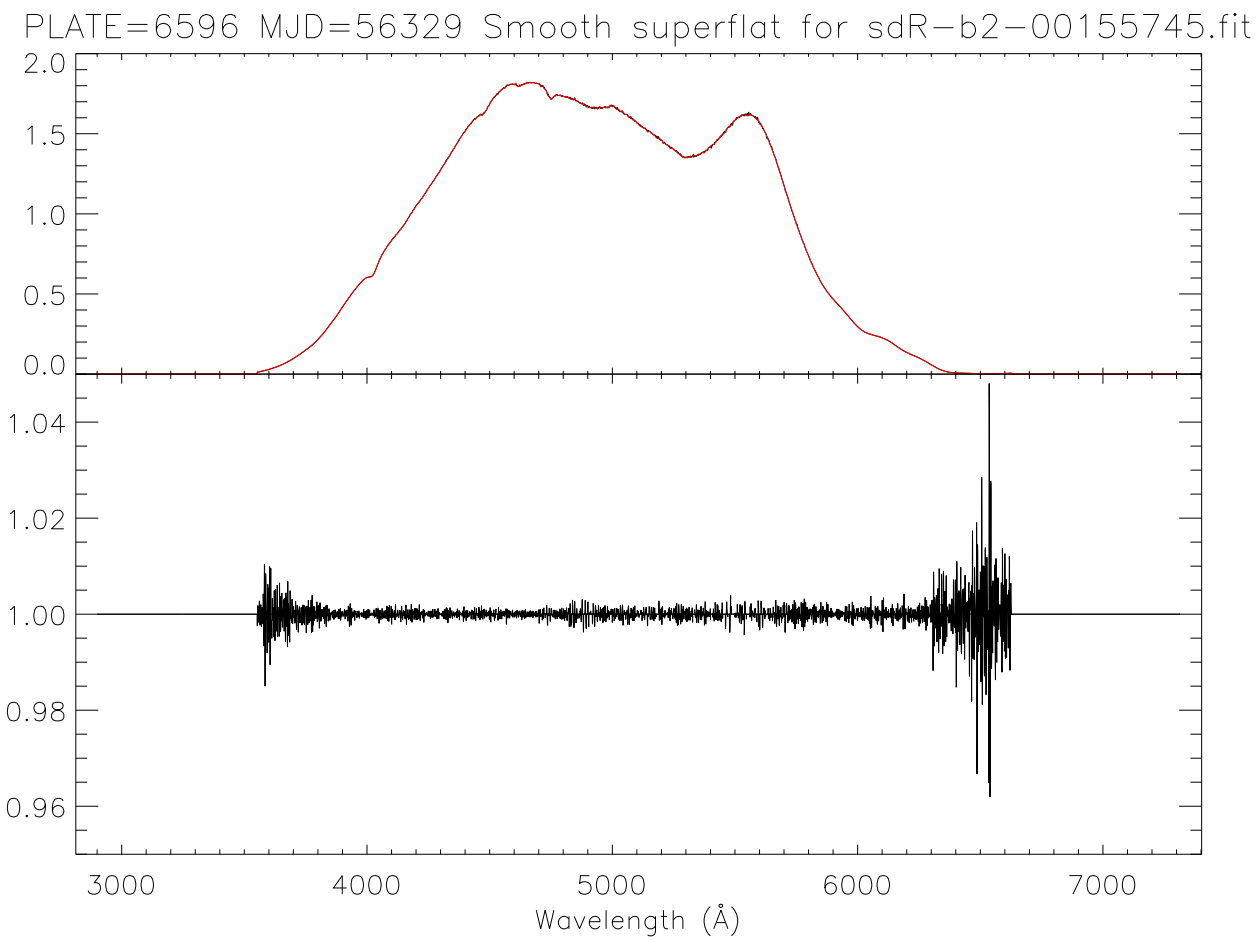

PLATE=6596 MJD=56329 sdR-b2-00155744.fit Skyline Flux at 4359.5
RED = sky fiber
Dispersion = 12.61 %
Flux (4359.5)/Airmass
Fiber number
Focal Distance [mm]
Airmass

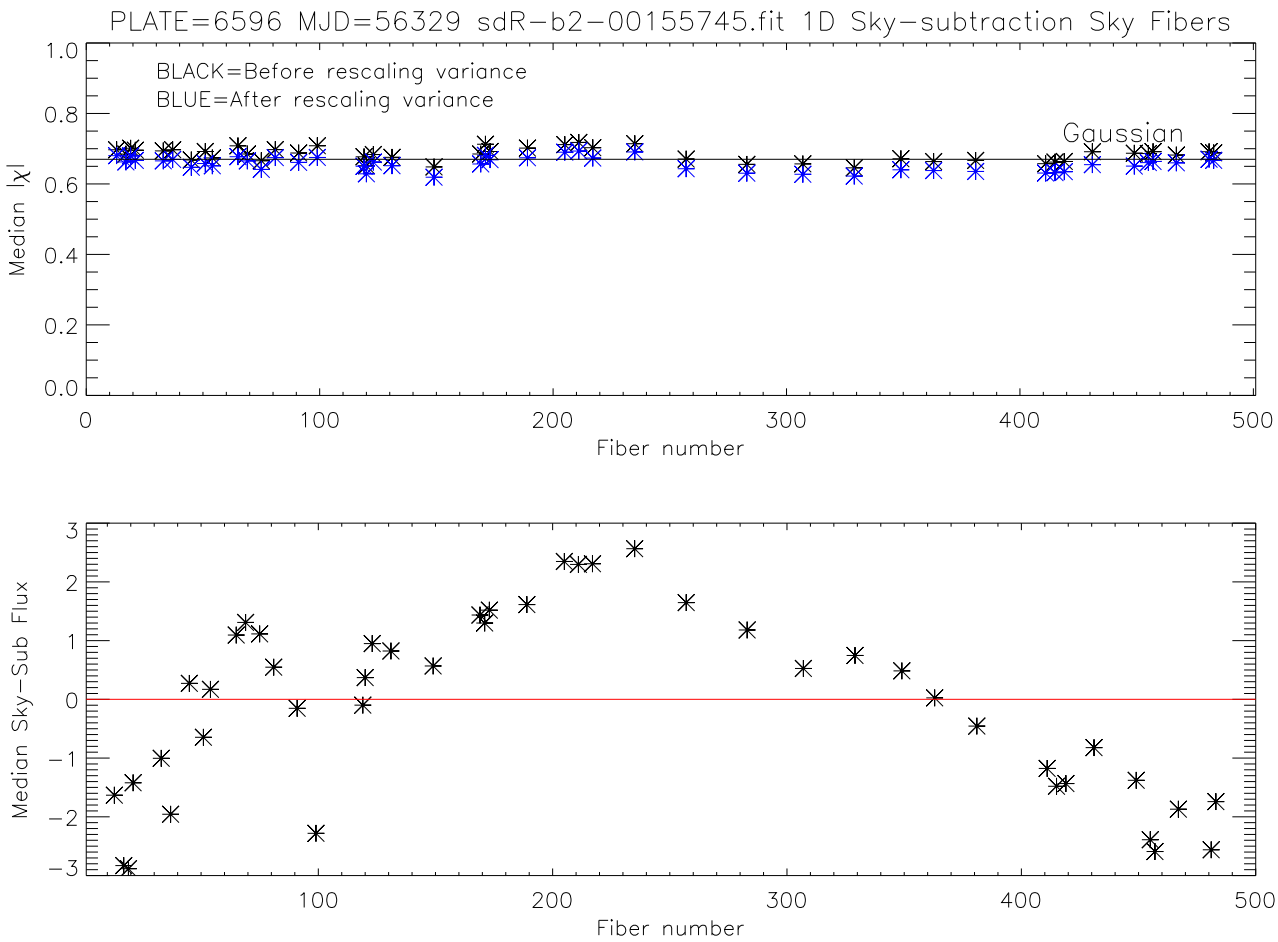

PLATE=6596 MJD=56329 sdR-b2-00155744.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 29.32 %
Fiber number
Focal Distance [mm]
Airmass

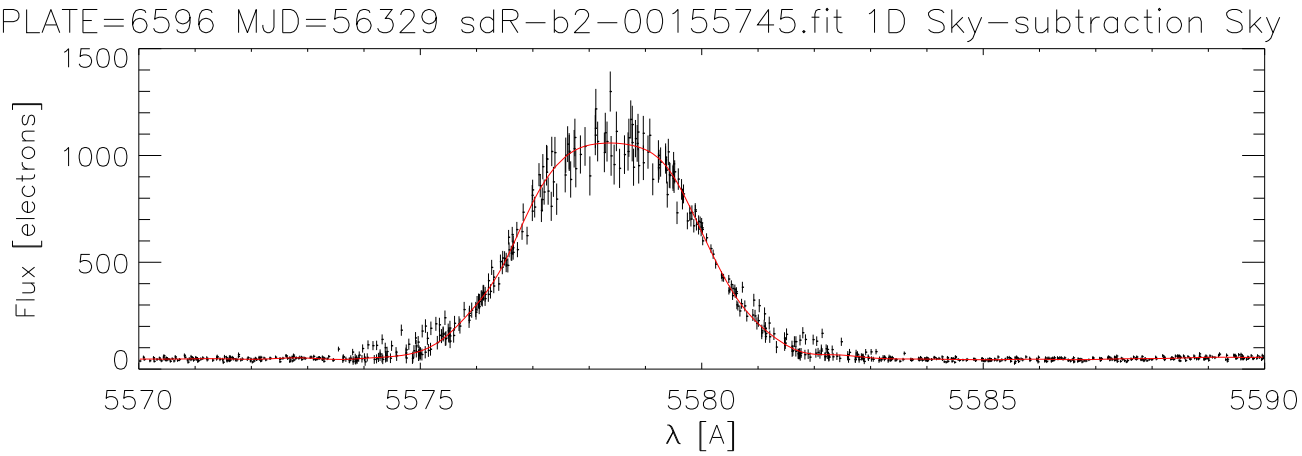

PLATE=6596 MJD=56329 Fiber-Flats for sdR-b2-00155743.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = -6.619
Max value = 2.706
Fiber-Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sat May 28 08:57:33 2016

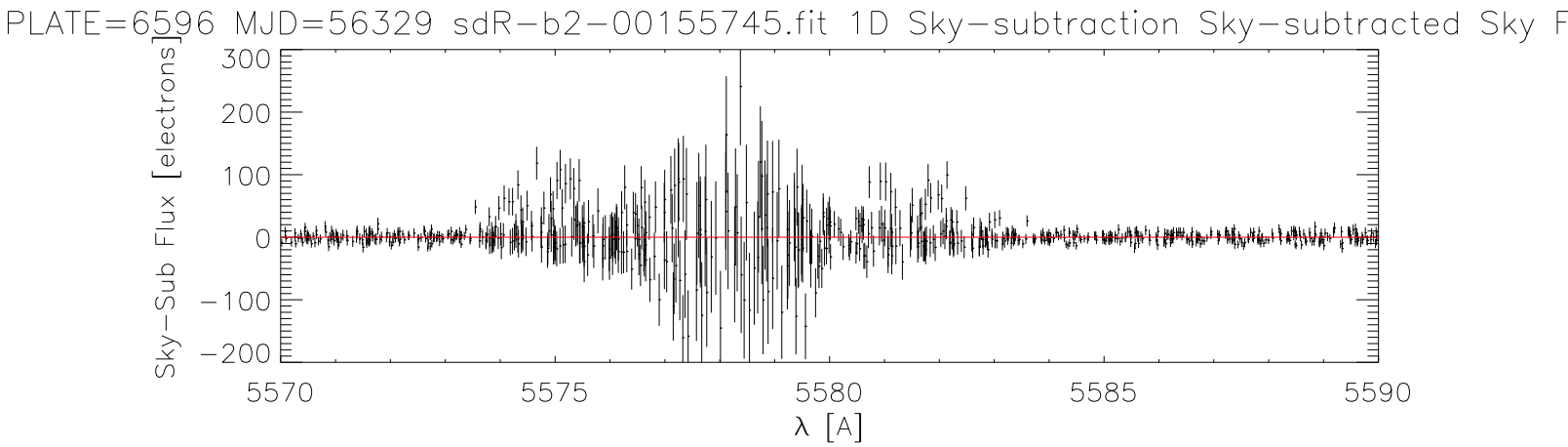

PLATE=6596 MJD=56329 Extraction chi^2 for sdR-b2-00155745.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=6596 MJD=56329 Sky Line Deviations for sdR-b2-00155745.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

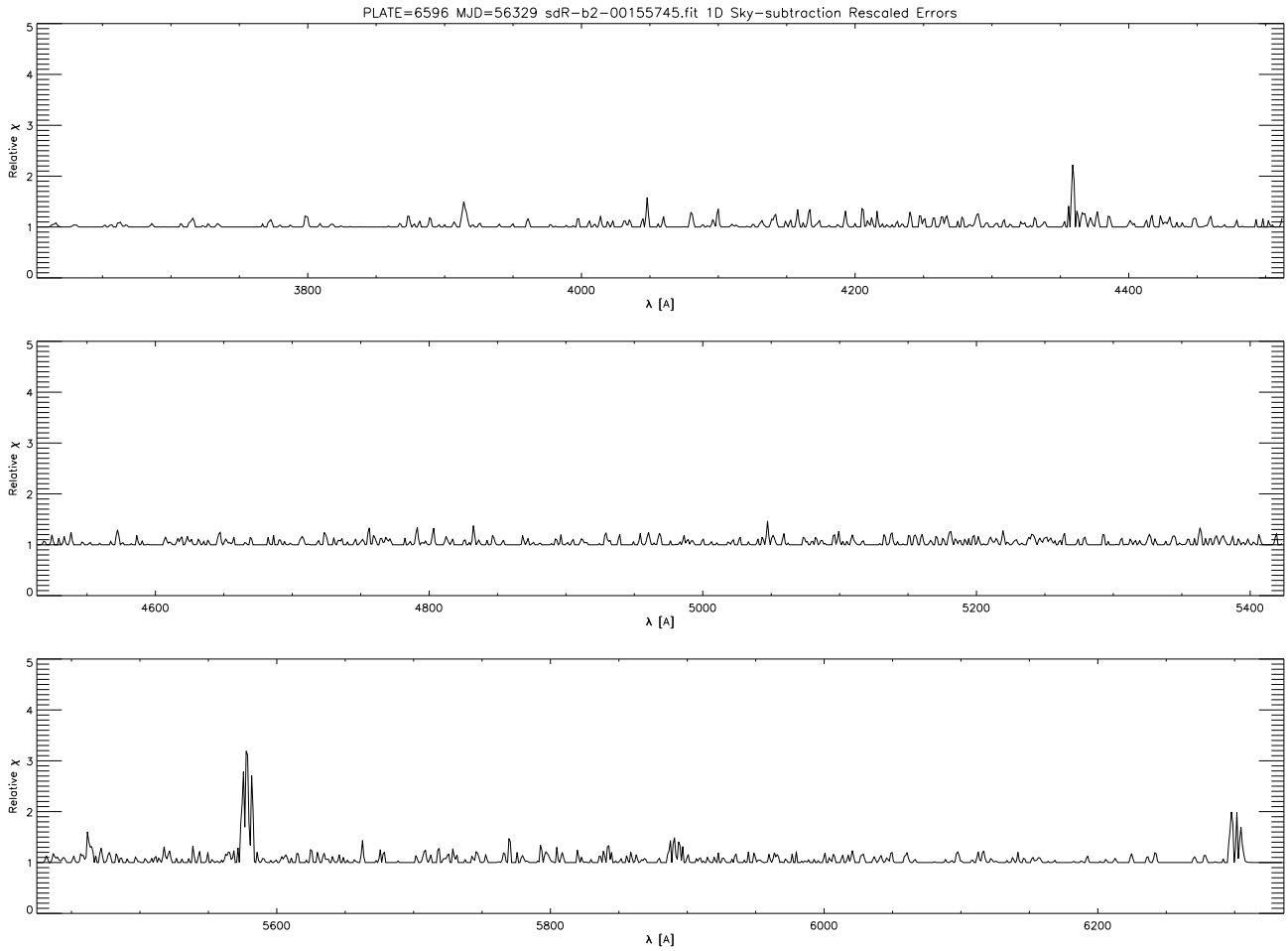

PLATE=6596 MJD=56329 Smooth superflat for sdR-b2-00155745.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

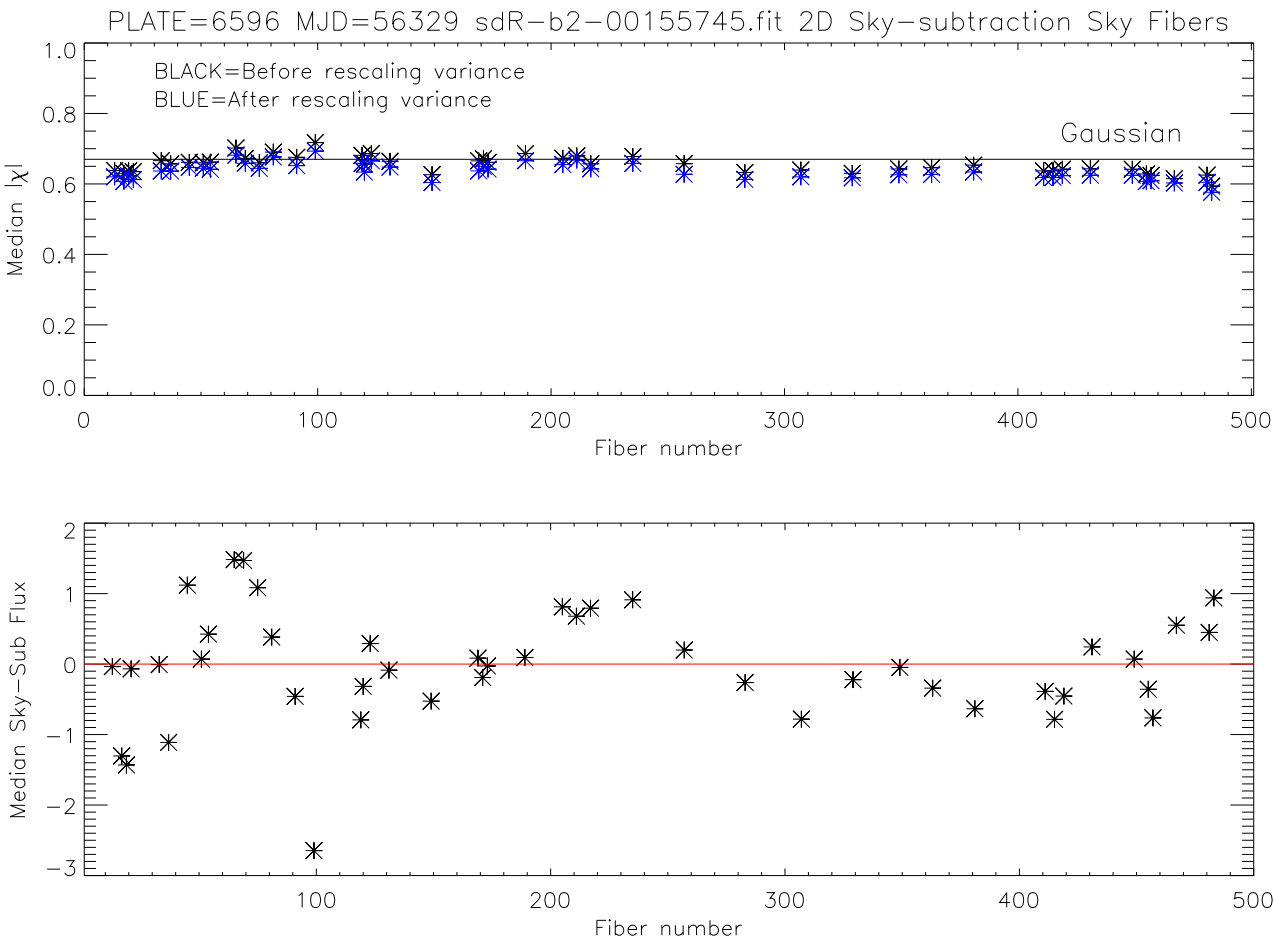

PLATE=6596 MJD=56329 sdR-b2-00155745.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussign
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

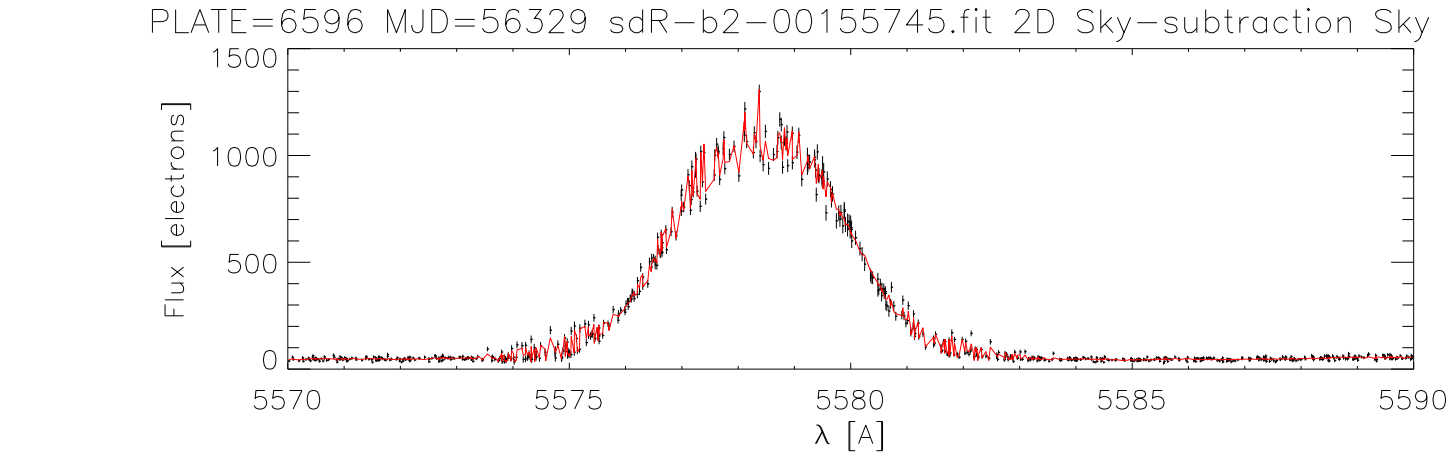

PLATE=6596 MJD=56329 sdR-b2-00155745.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

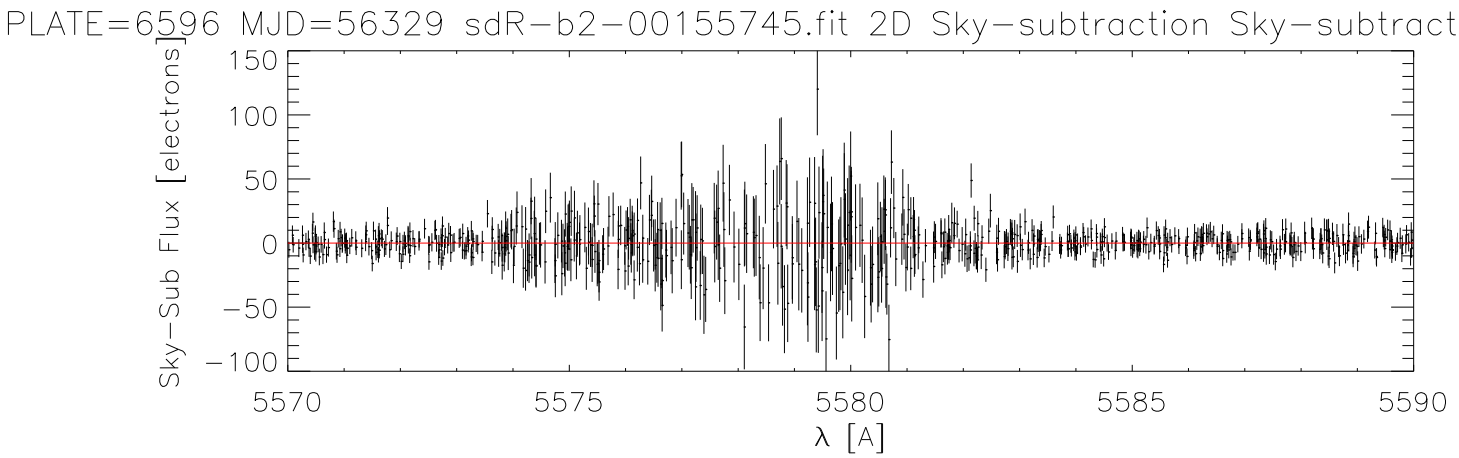

PLATE=6596 MJD=56329 sdR-b2-00155745.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 45

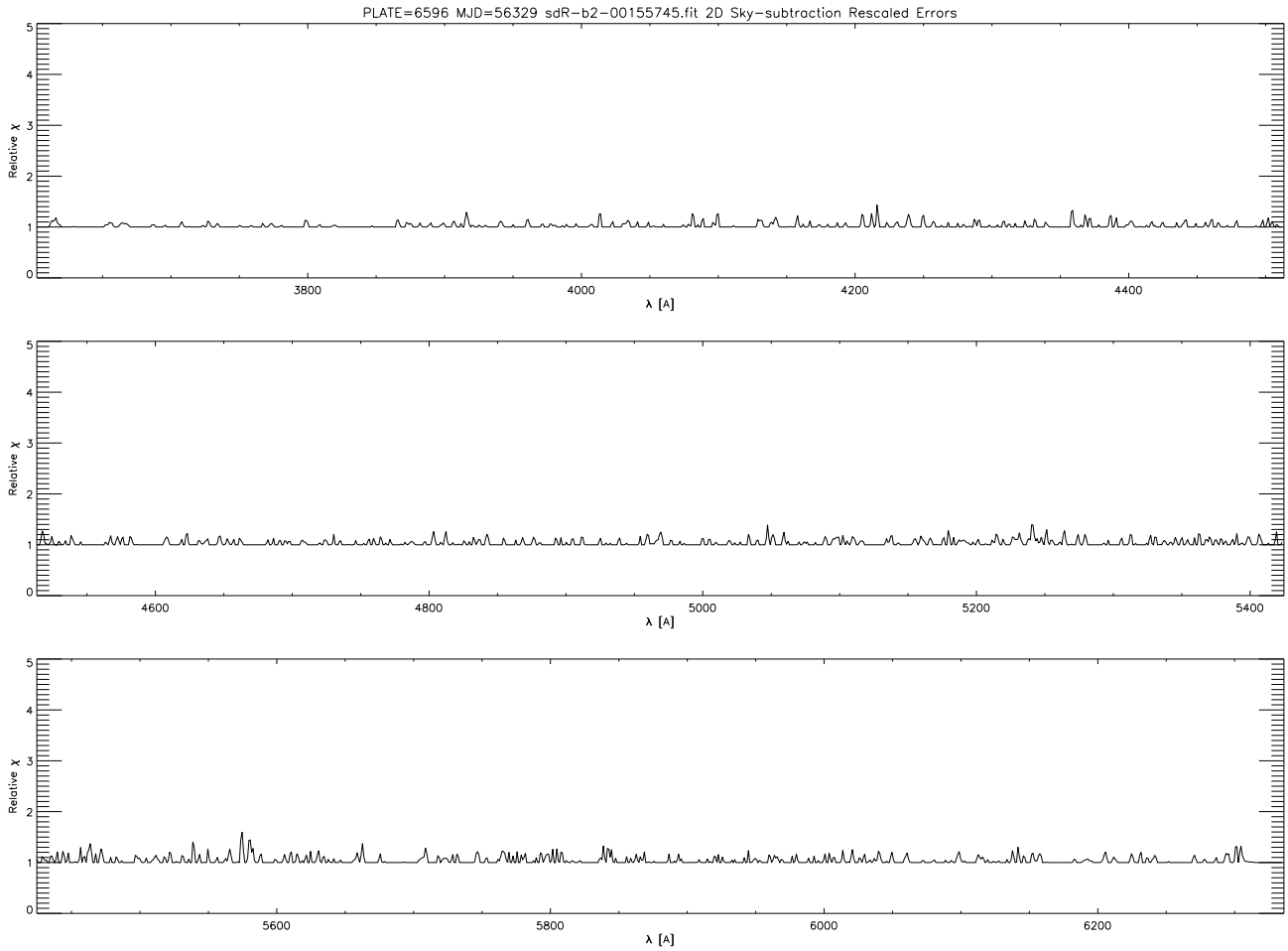


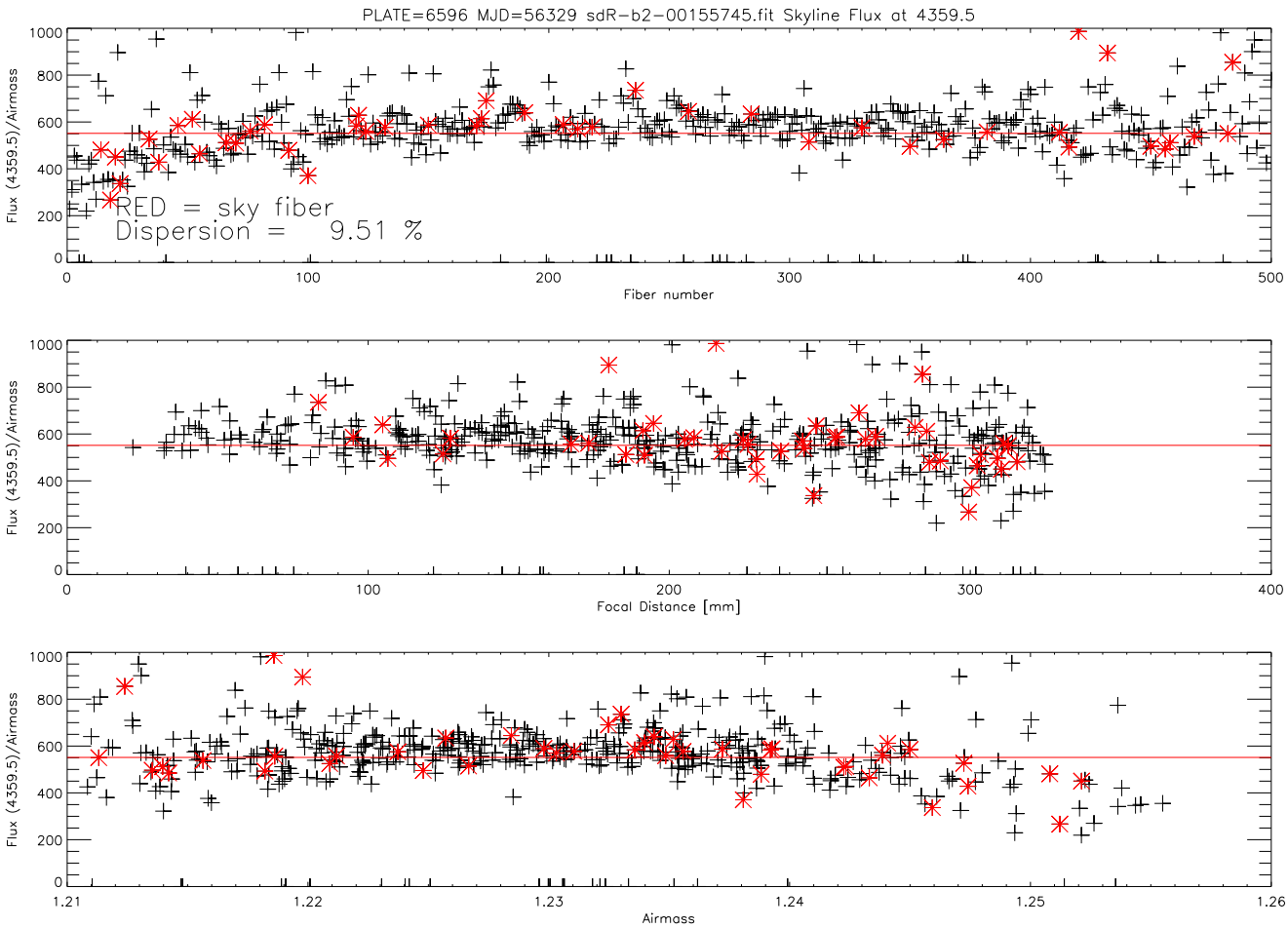

PLATE=6596 MJD=56329 sdR-b2-00155745.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

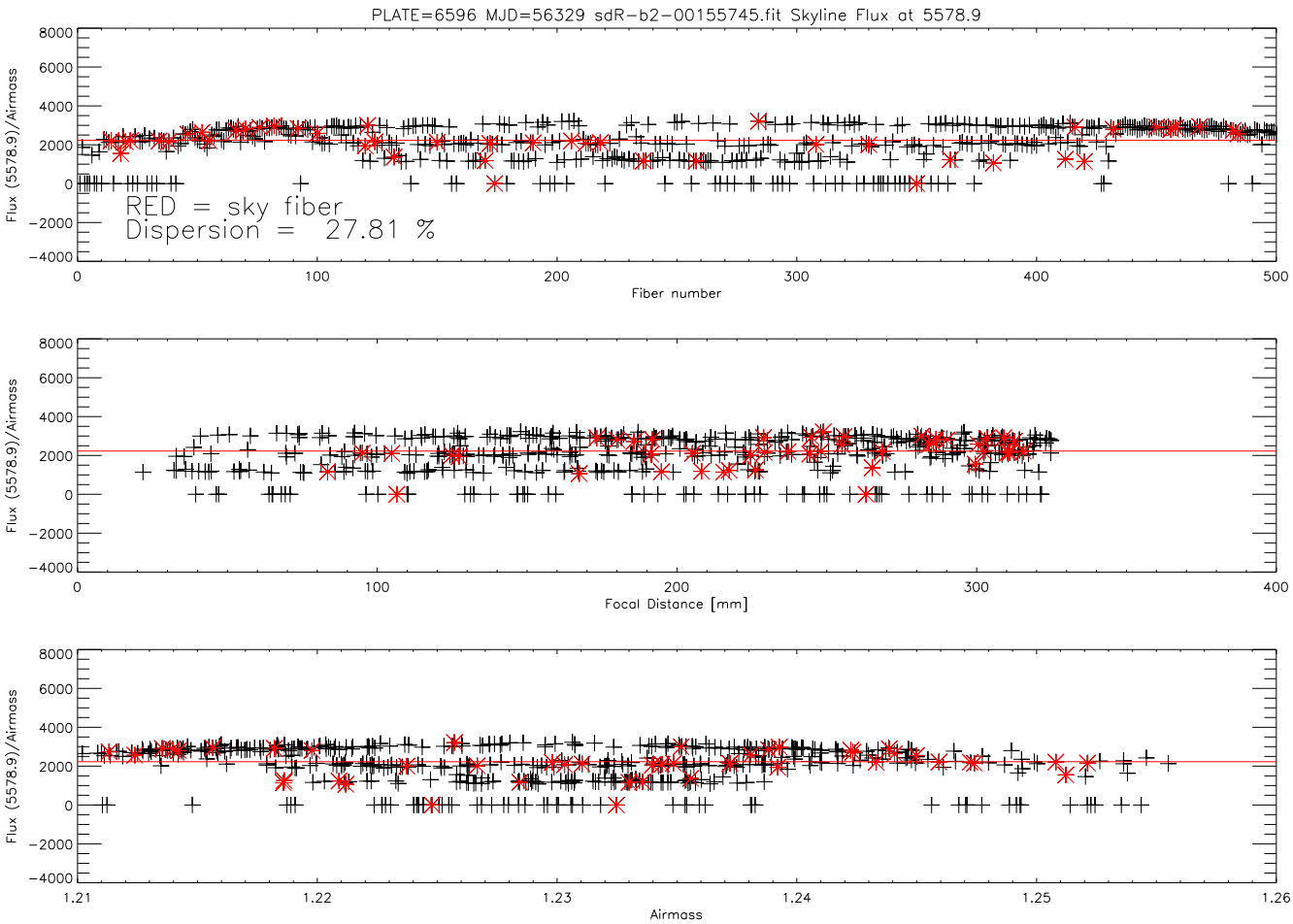

PLATE=6596 MJD=56329 sdR-b2-00155745.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

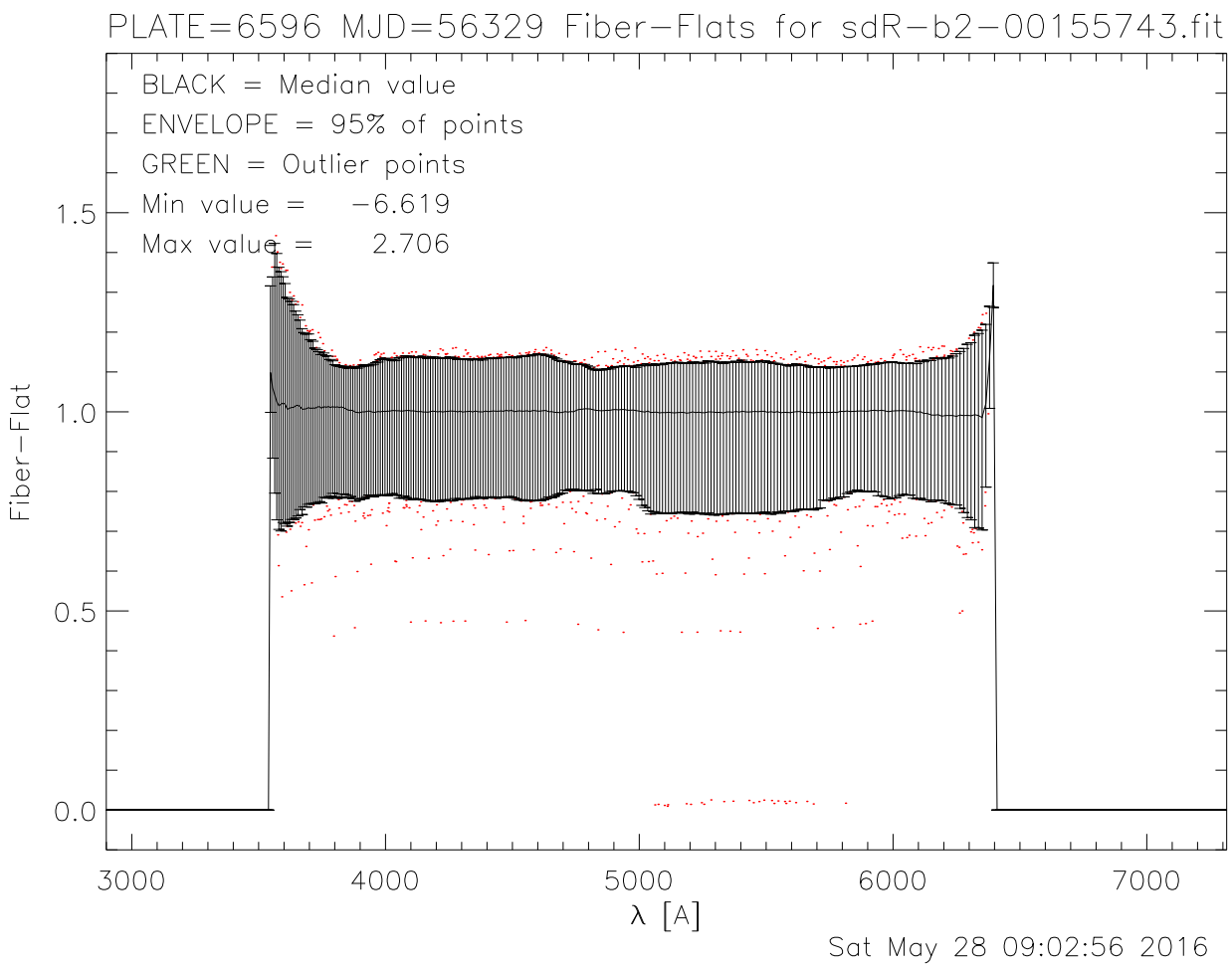

PLATE=6596 MJD=56329 sdR-b2-00155745.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
−50
−100
5570
5575
5580
5585
5590
λ [A]

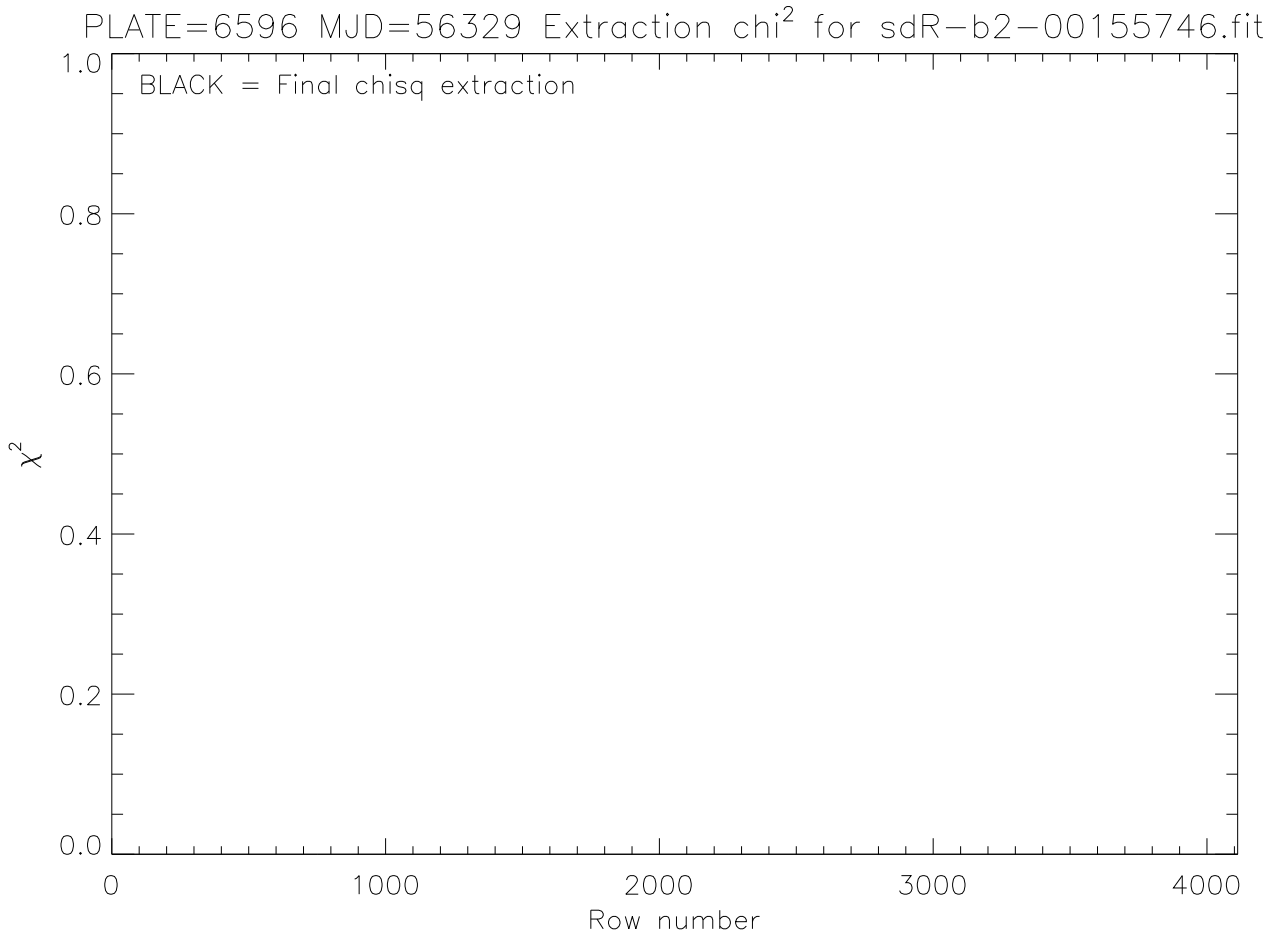
Number of sky fibers = 45

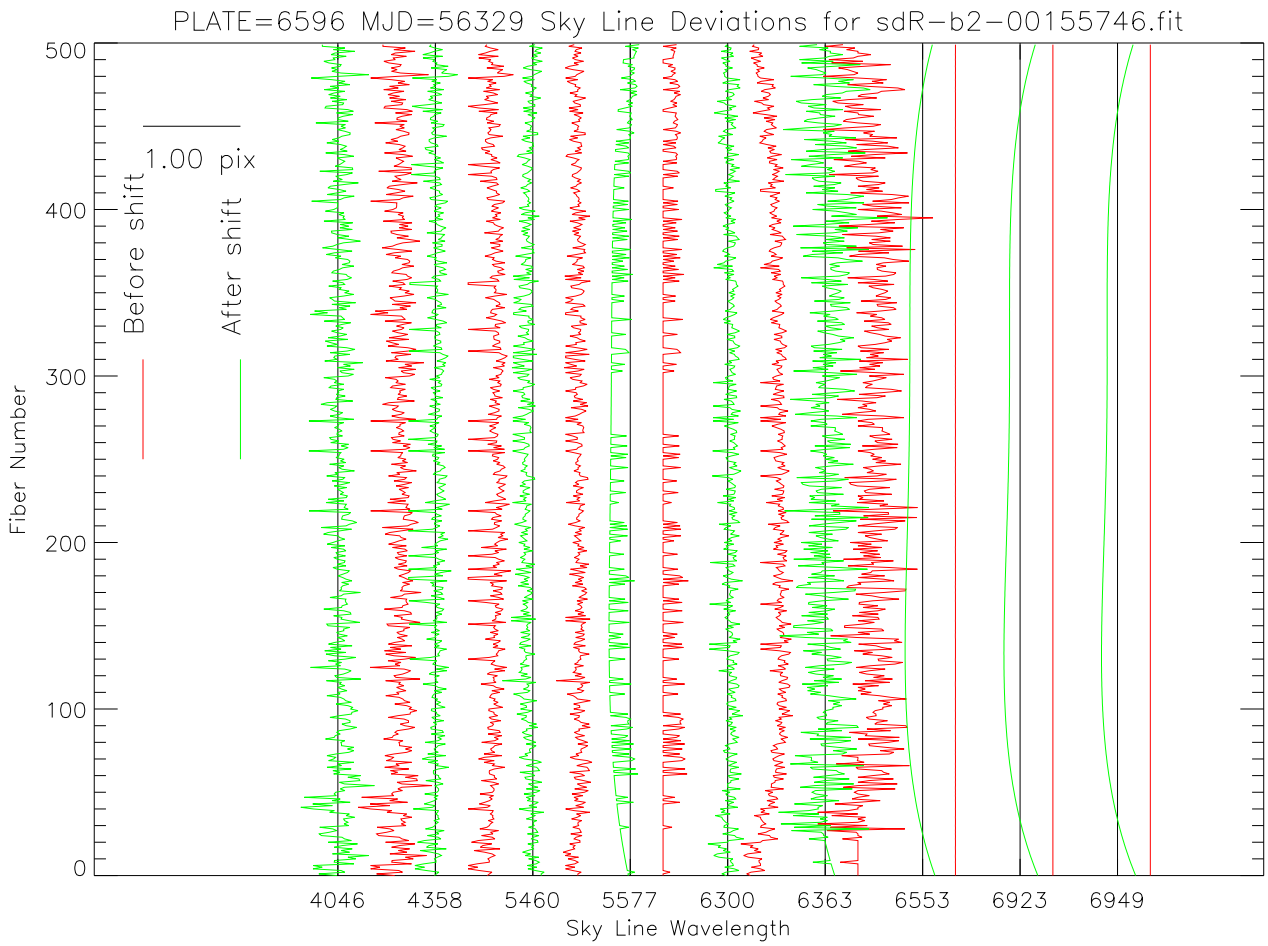


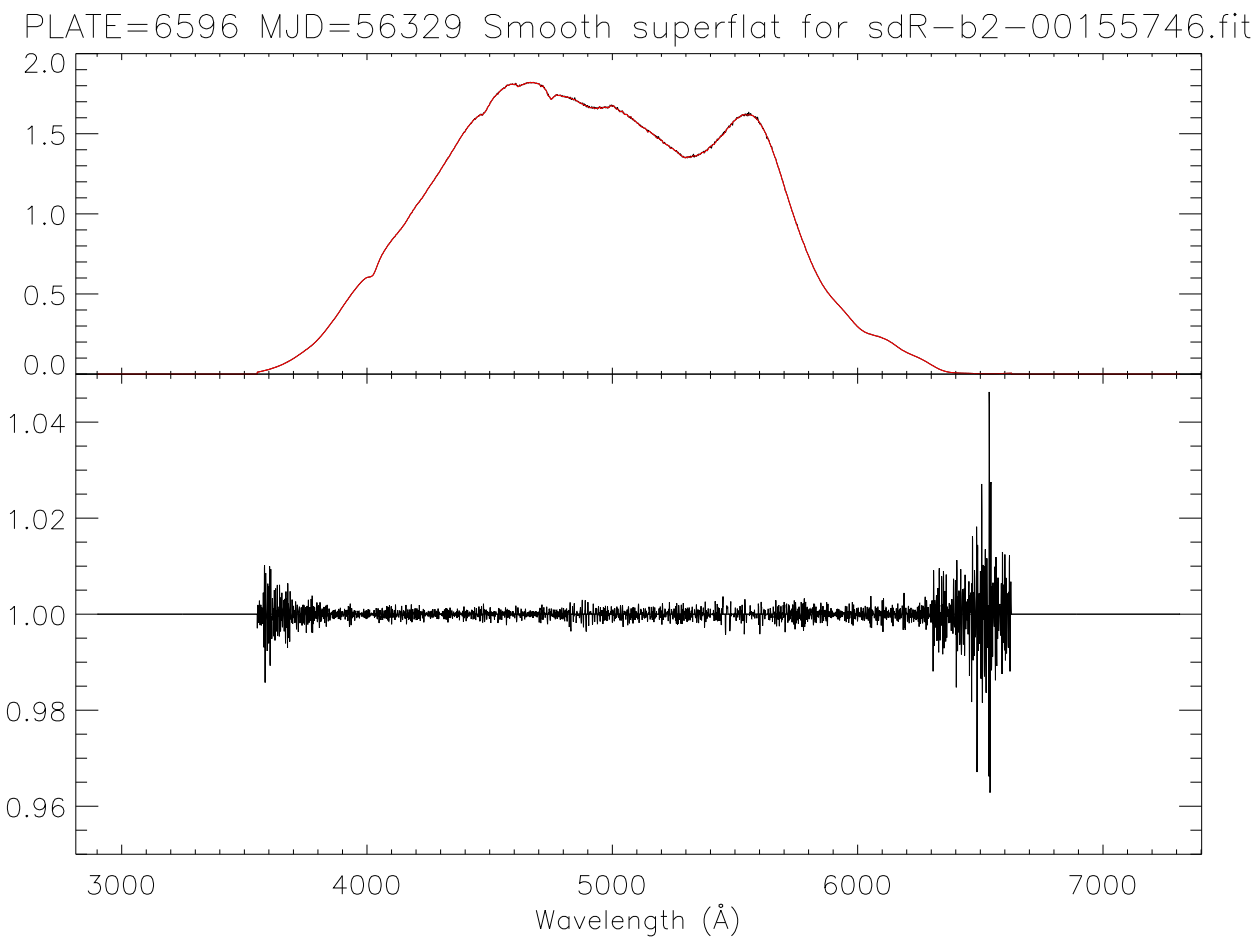

PLATE=6596 MJD=56329 sdR-b2-00155745.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 9.51 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

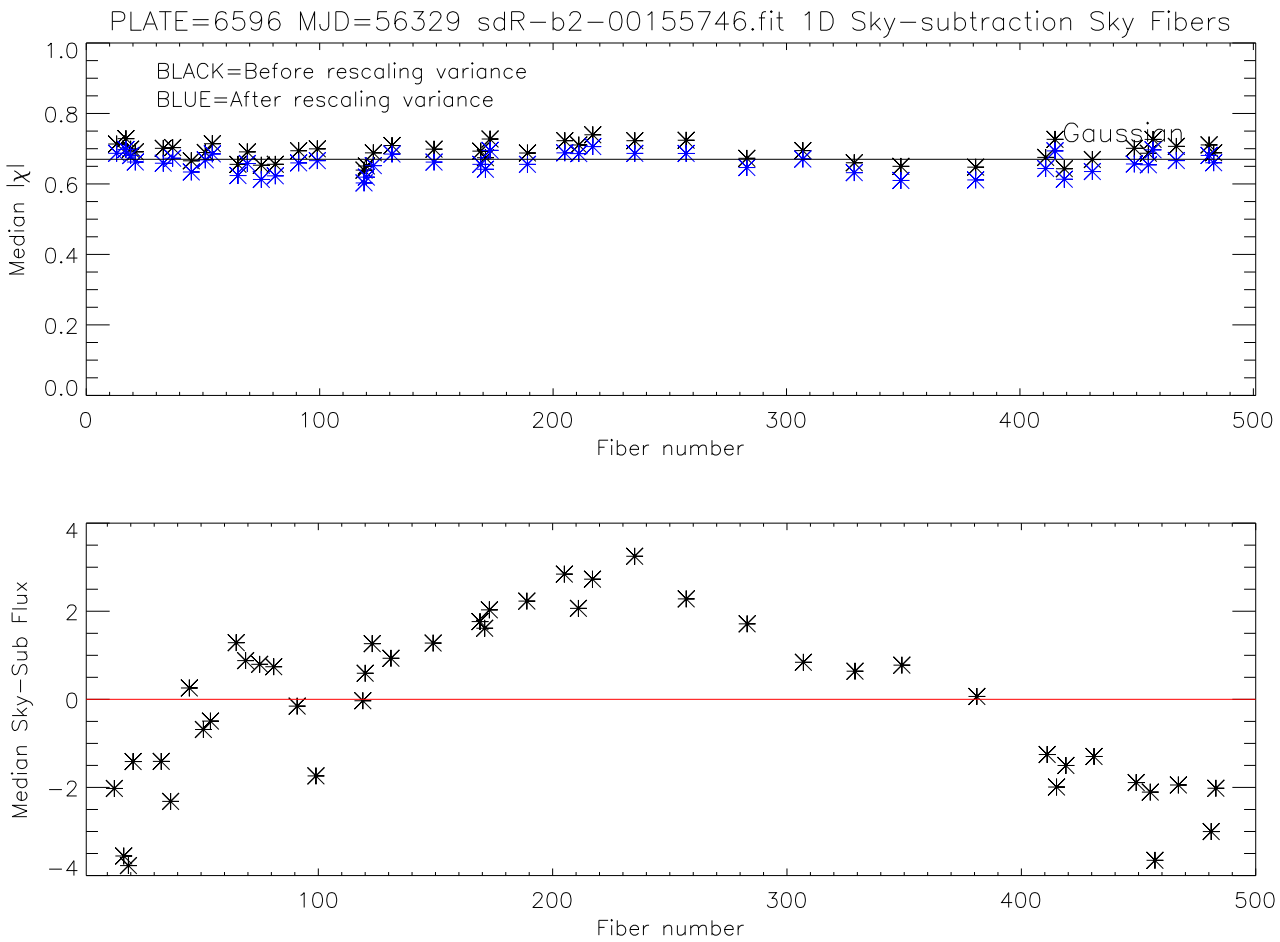

PLATE=6596 MJD=56329 sdR-b2-00155745.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 27.81 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

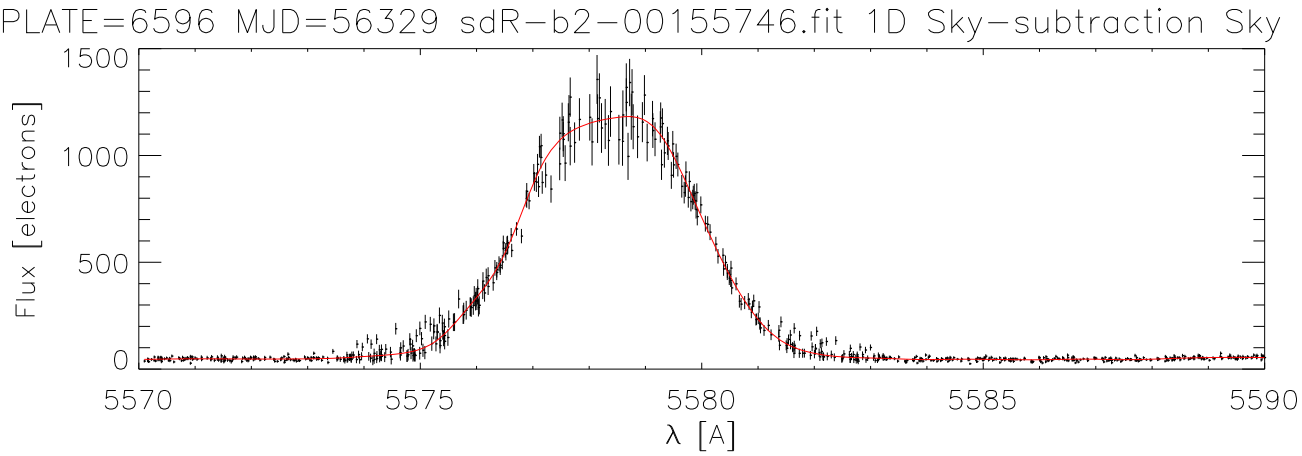

PLATE=6596 MJD=56329 Fiber-Flats for sdR-b2-00155743.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = -6.619
Max value = 2.706
Fiber-Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sat May 28 09:02:56 2016

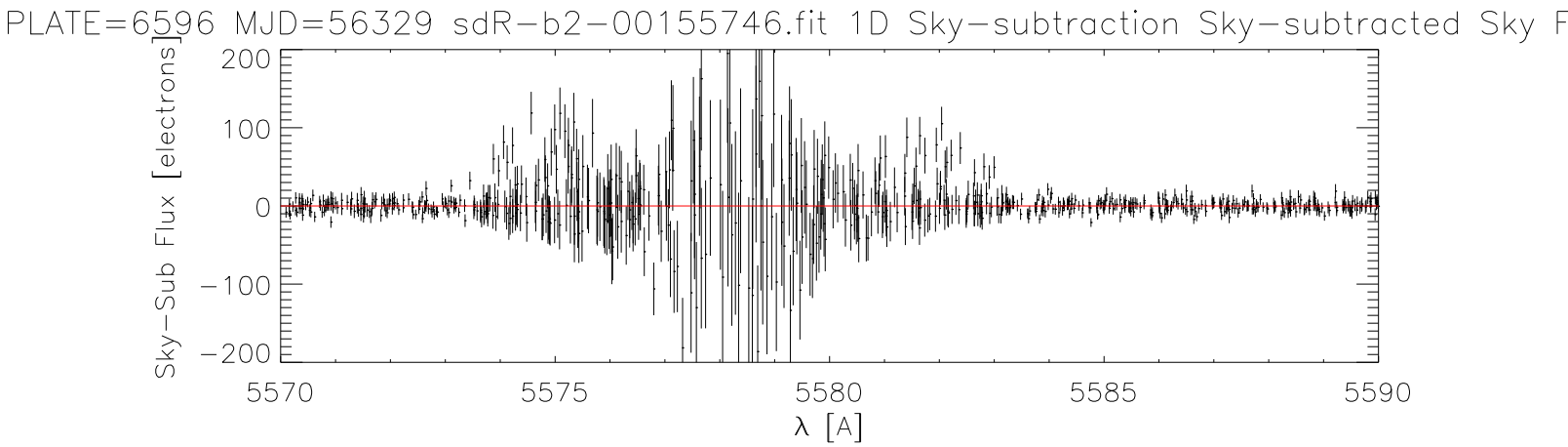

PLATE=6596 MJD=56329 Extraction chi^2 for sdR-b2-00155746.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=6596 MJD=56329 Sky Line Deviations for sdR-b2-00155746.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

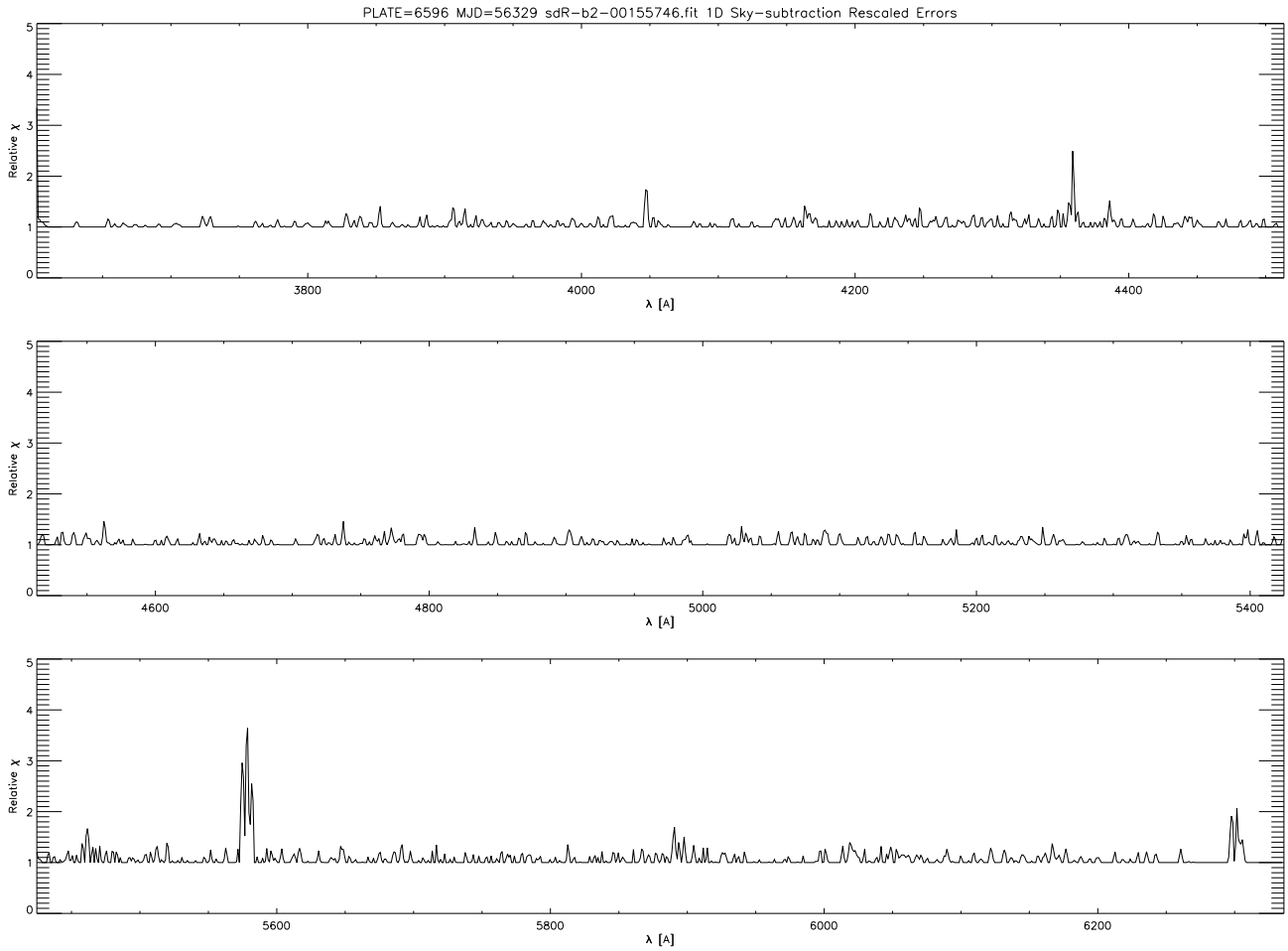

PLATE=6596 MJD=56329 Smooth superflat for sdR-b2-00155746.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

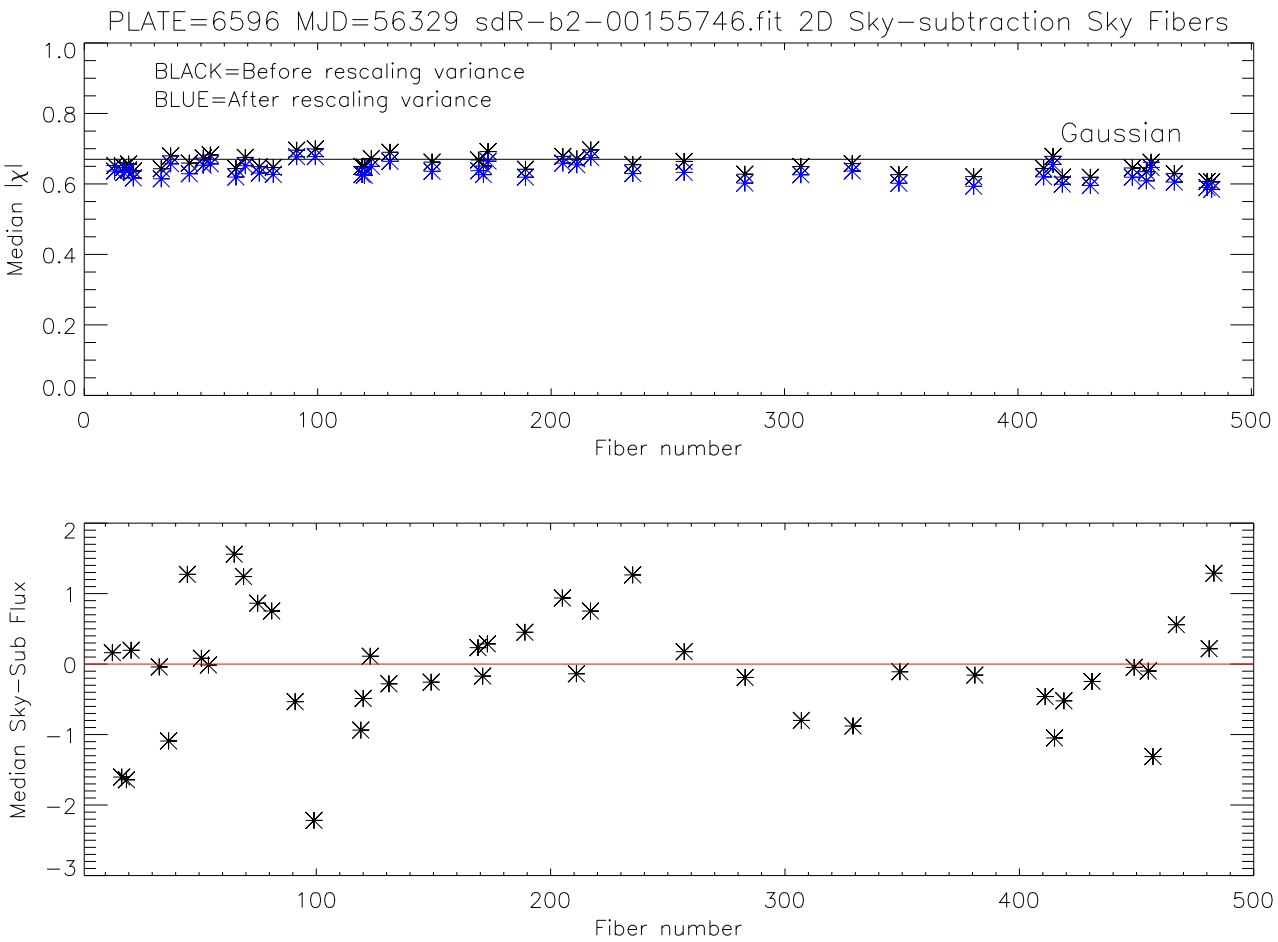

PLATE=6596 MJD=56329 sdR-b2-00155746.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

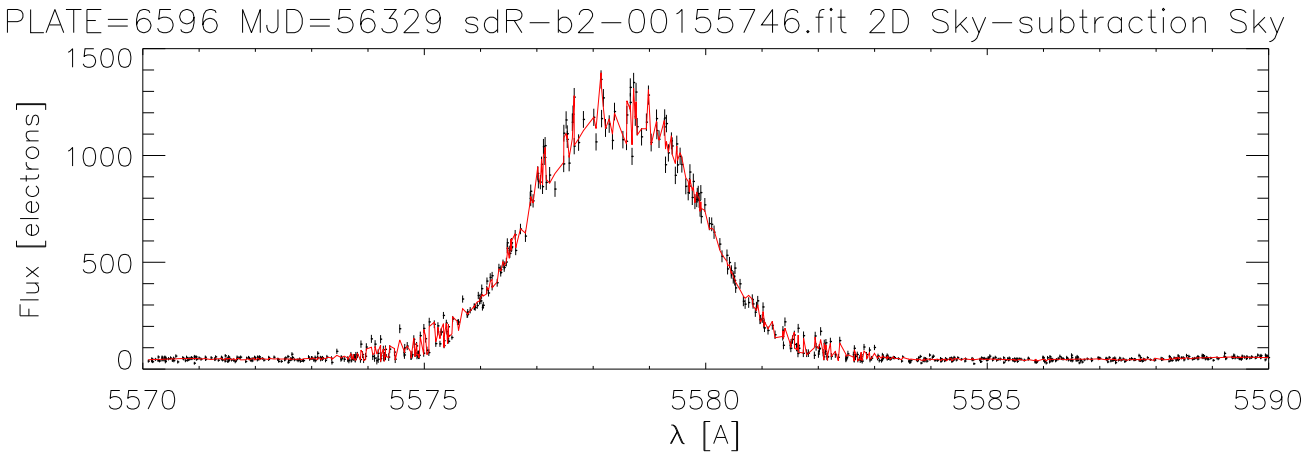

PLATE=6596 MJD=56329 sdR-b2-00155746.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

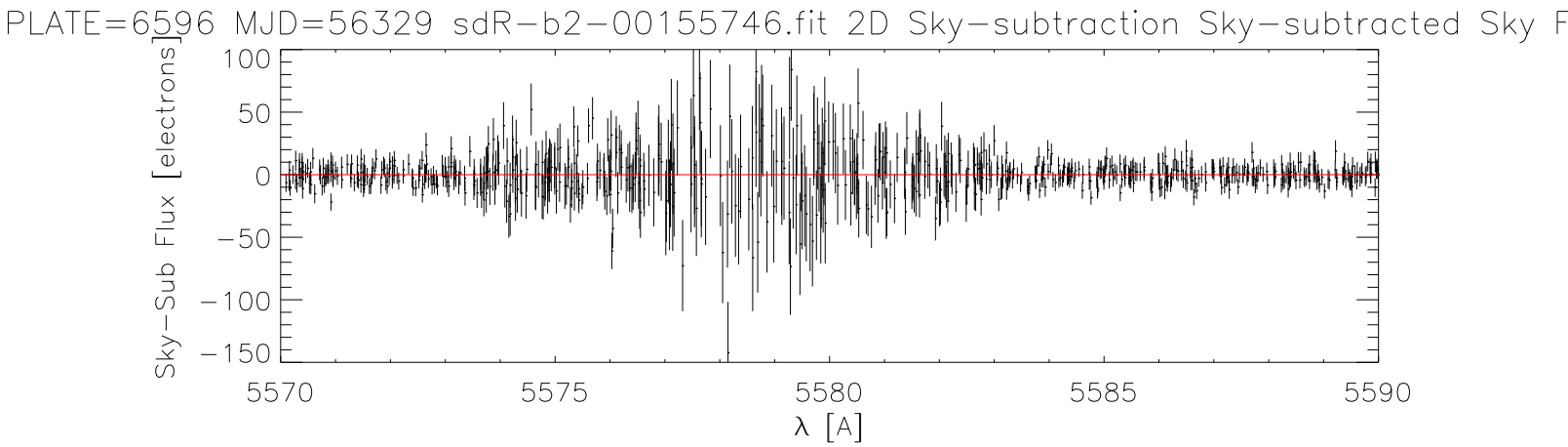

PLATE=6596 MJD=56329 sdR-b2-00155746.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 44

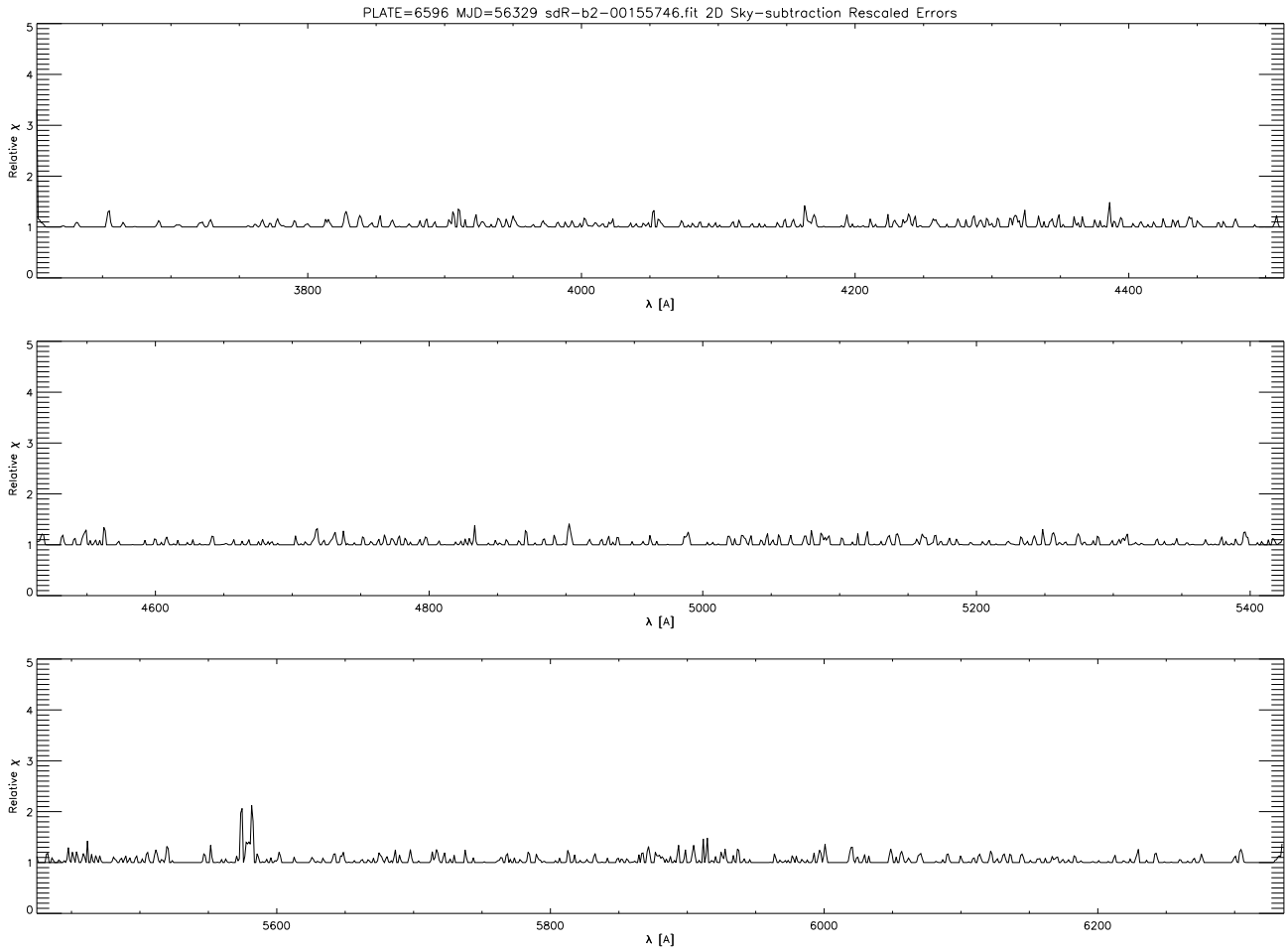


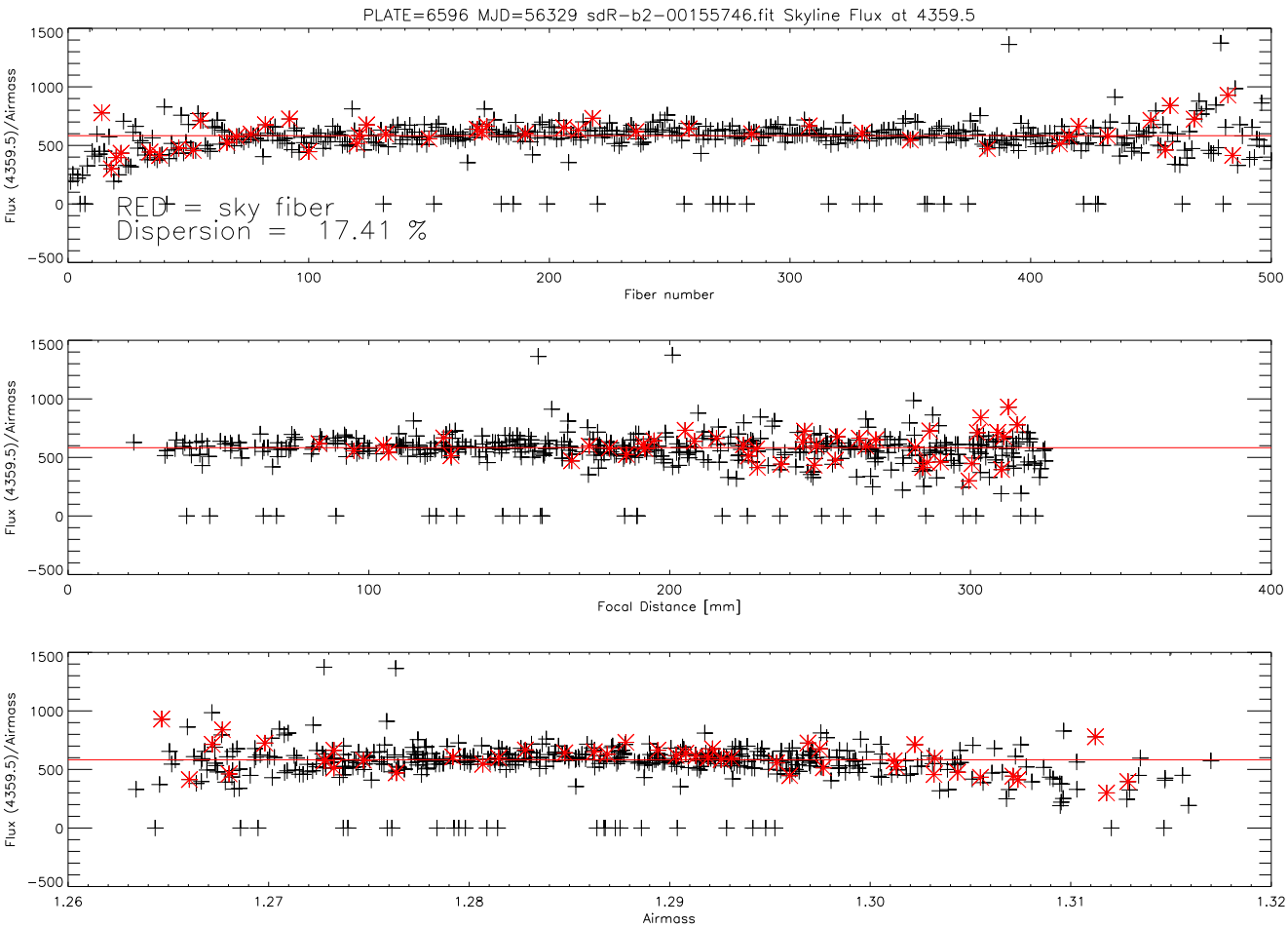

PLATE=6596 MJD=56329 sdR-b2-00155746.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

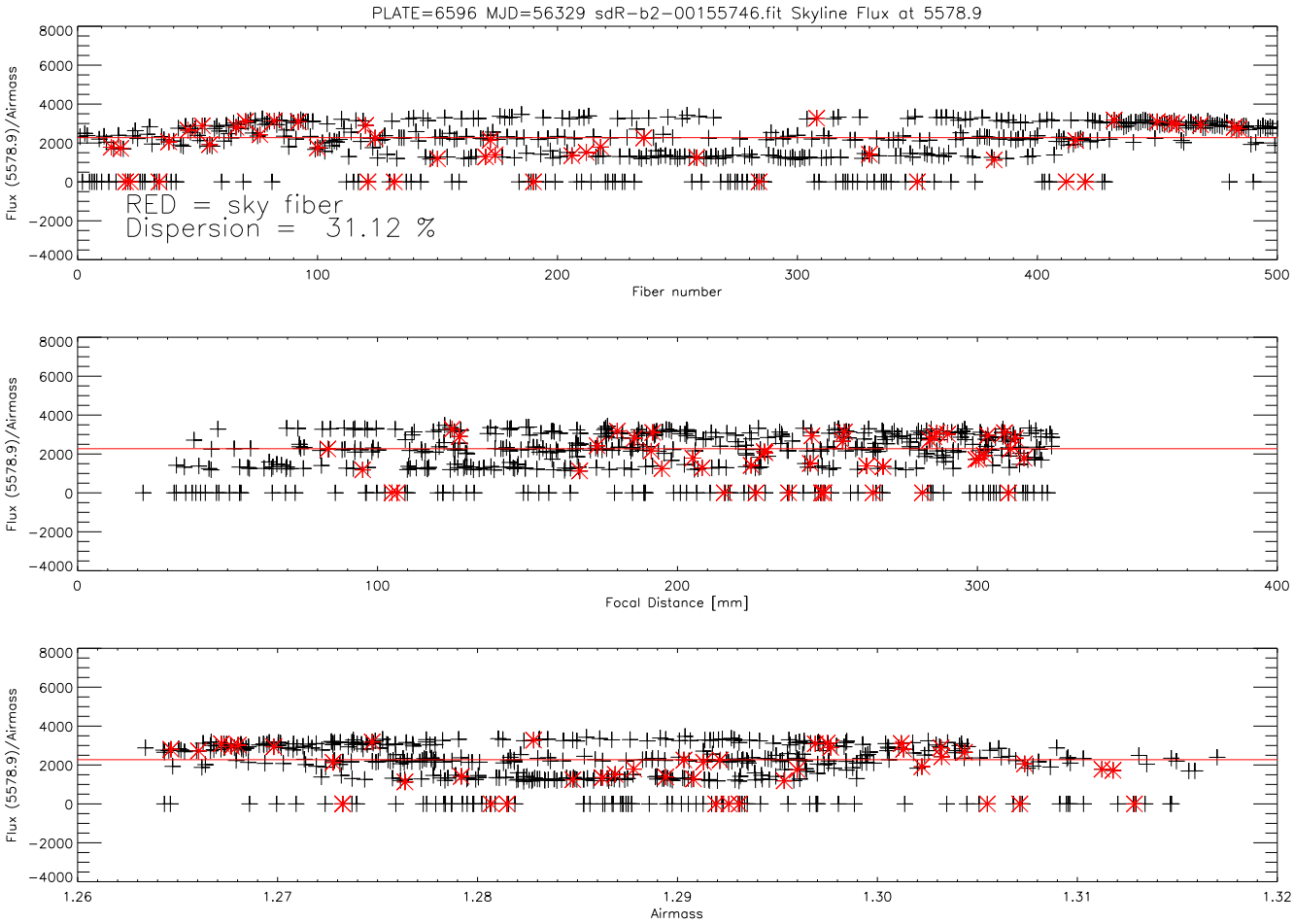

PLATE=6596 MJD=56329 sdR-b2-00155746.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]


PLATE=6596 MJD=56329 sdR-b2-00155746.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]

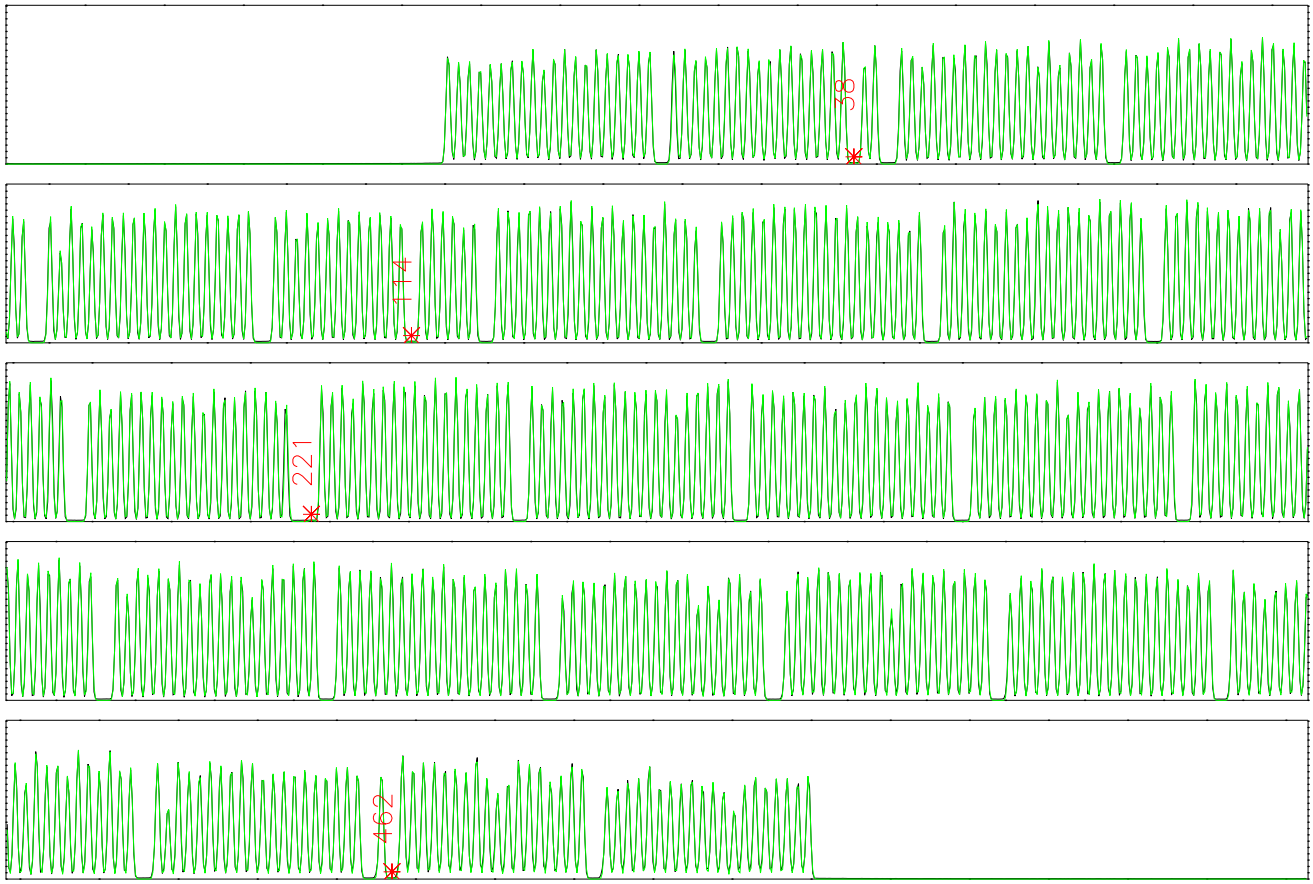
Number of sky fibers = 44

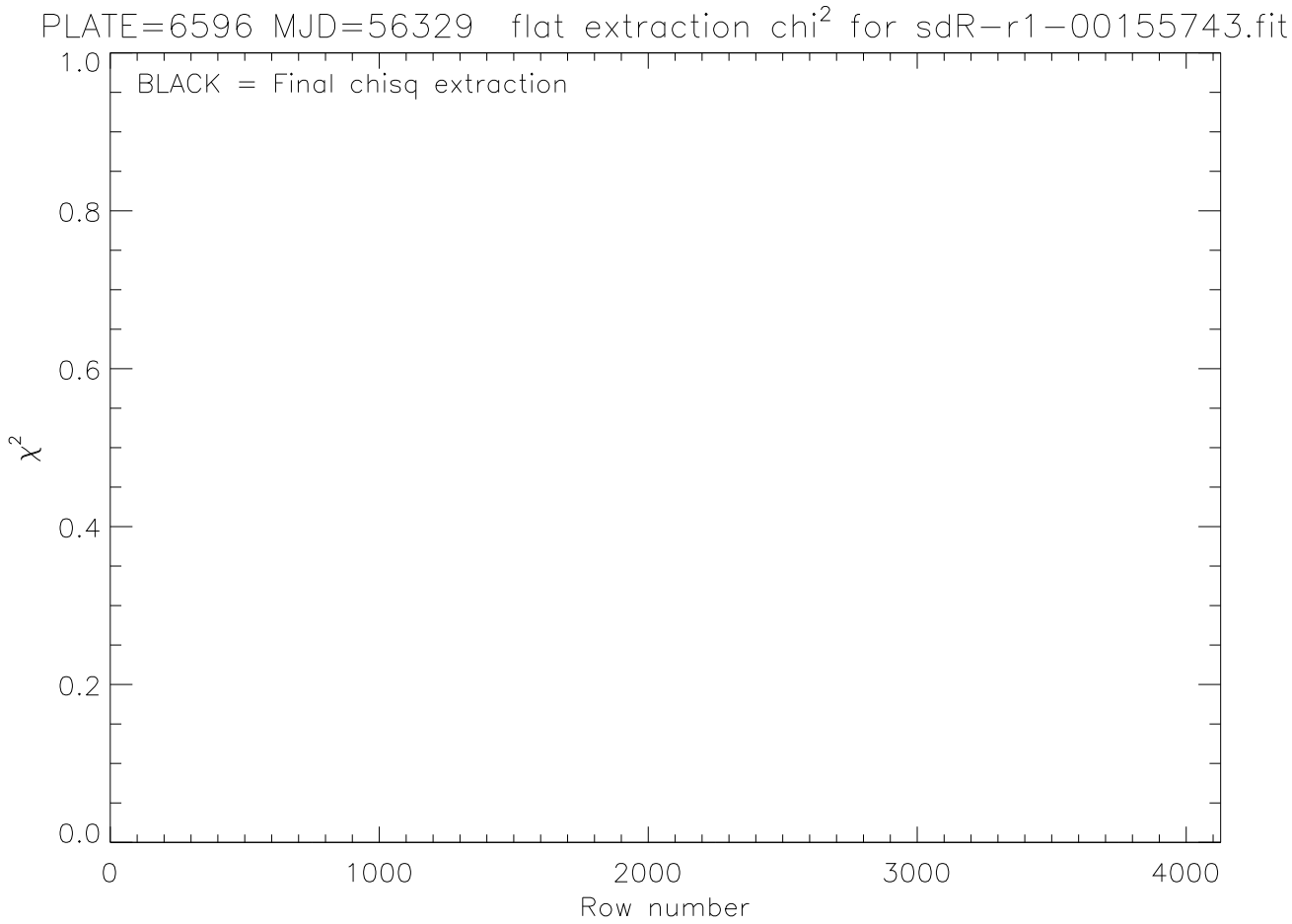


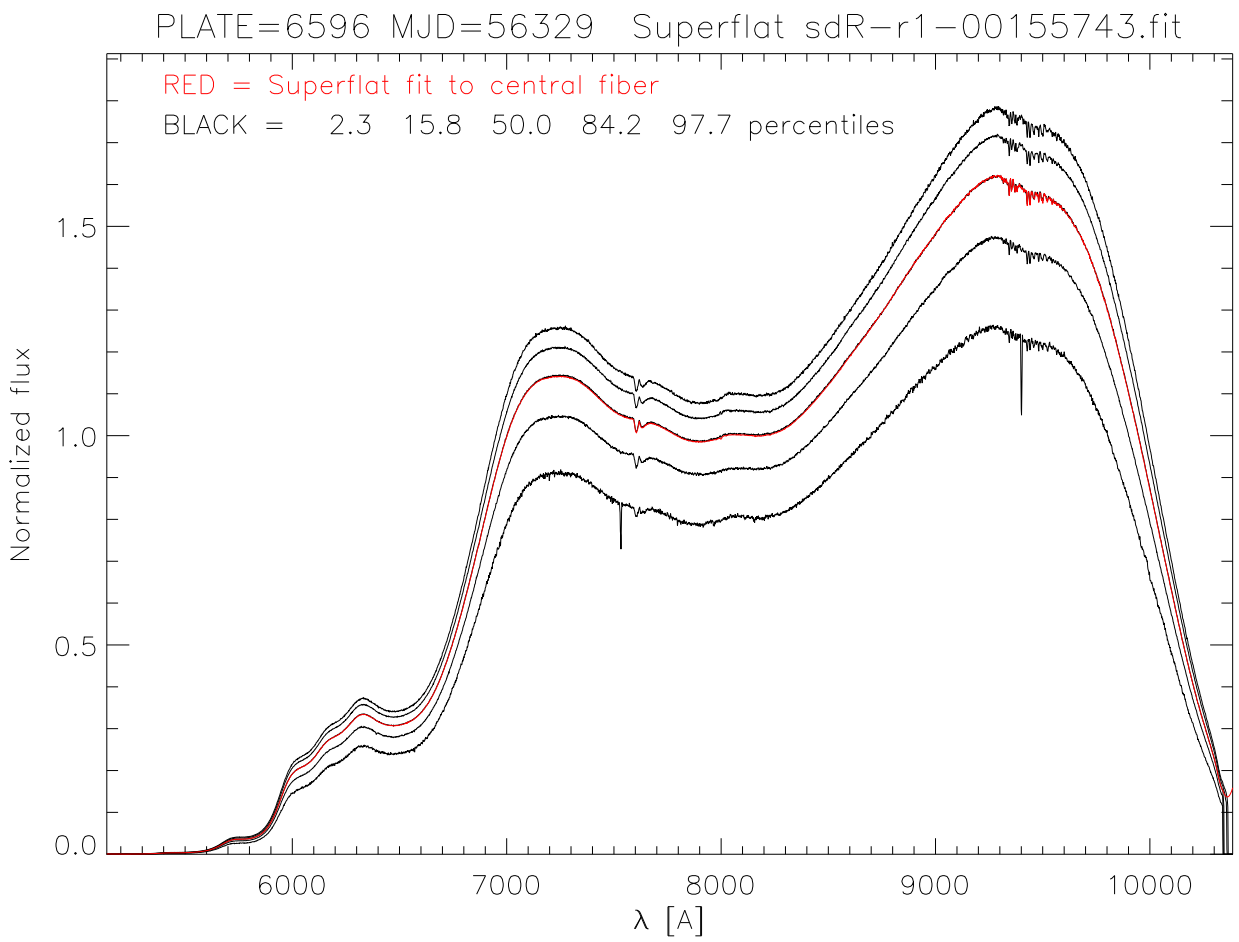

PLATE=6596 MJD=56329 sdR-b2-00155746.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 17.41 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

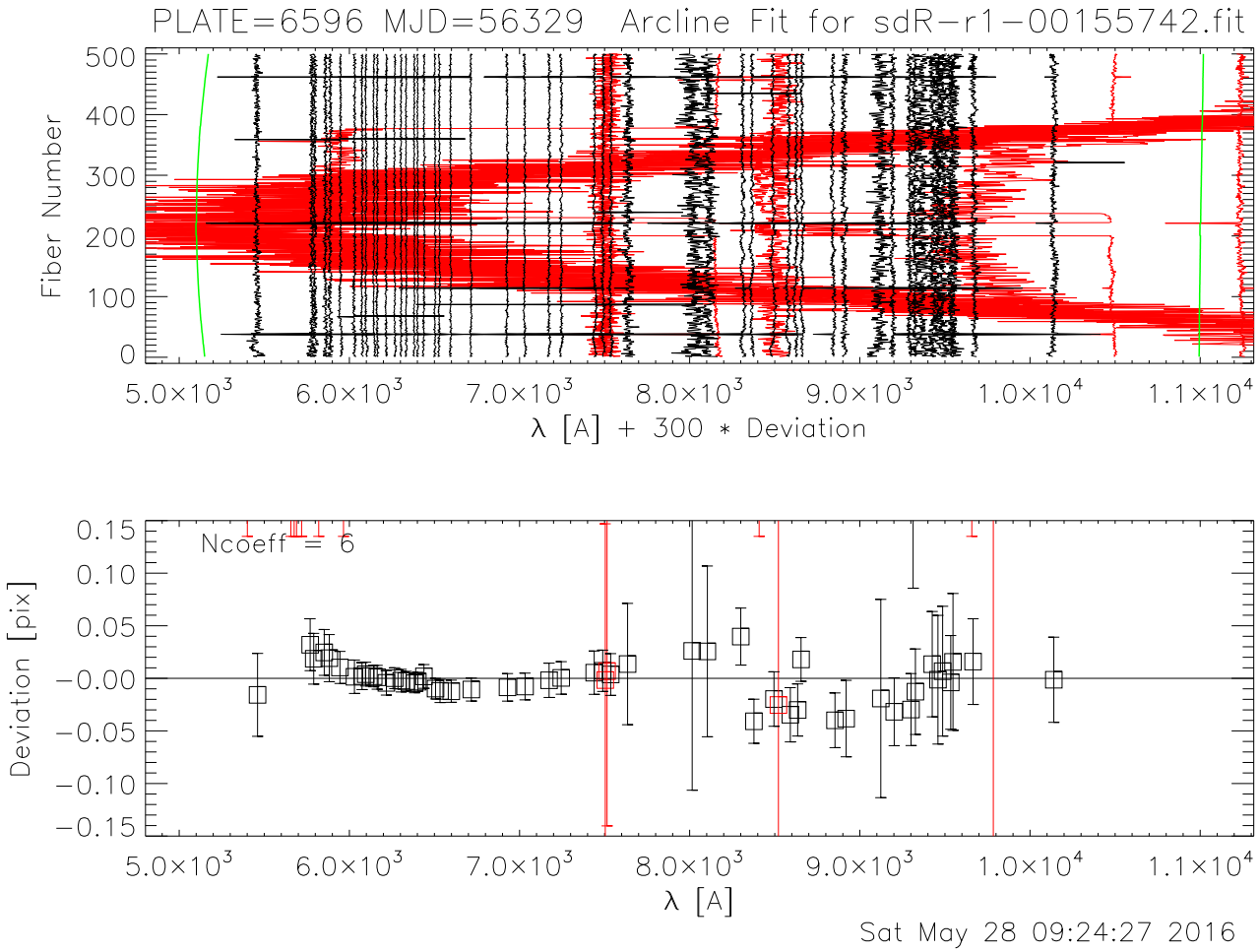

PLATE=6596 MJD=56329 sdR-b2-00155746.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 31.12 %
Fiber number
Focal Distance [mm]
Airmass

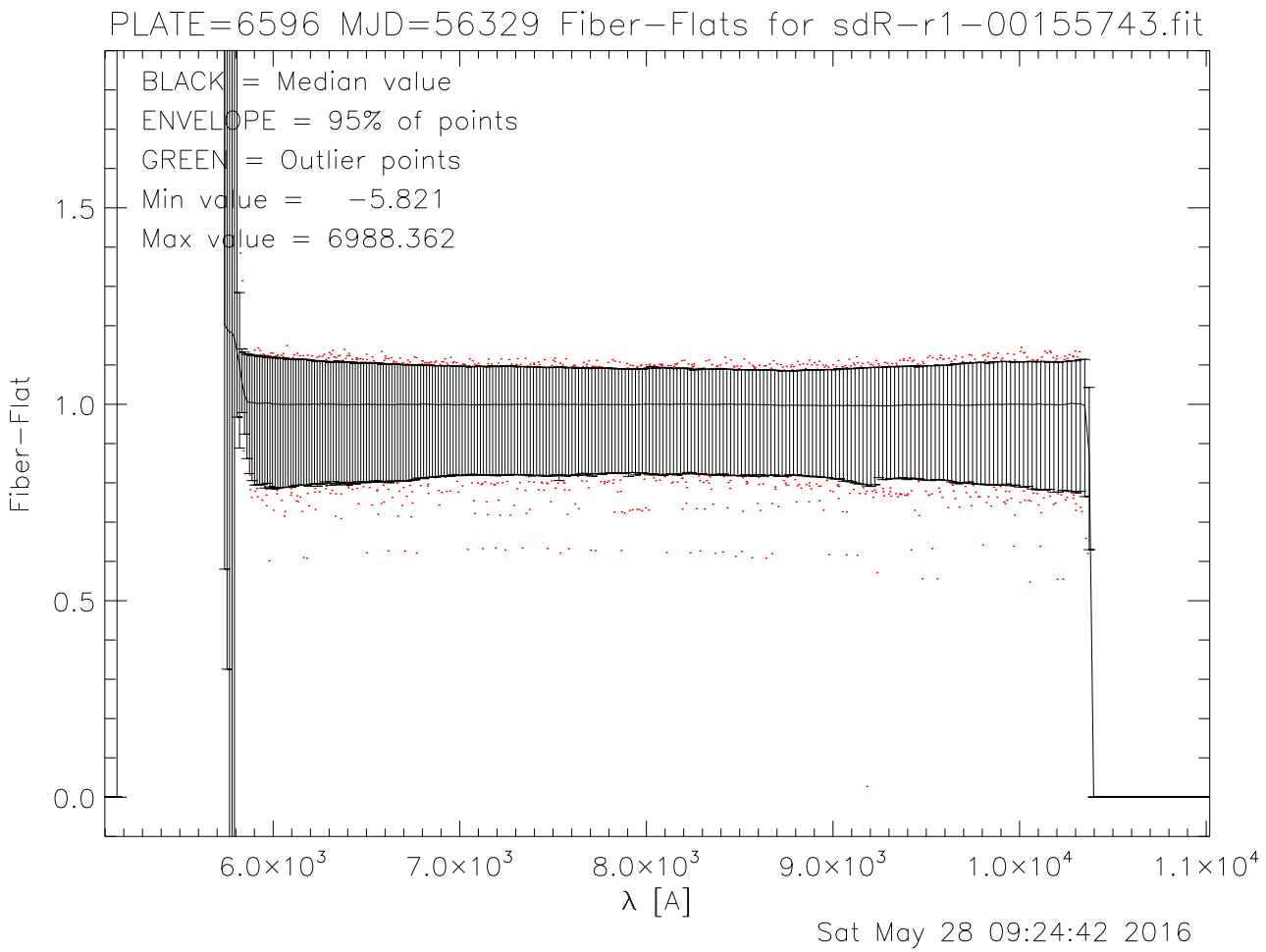
PLATE=6596 MJD=56329 Traces sdR-r1-00155743.fit

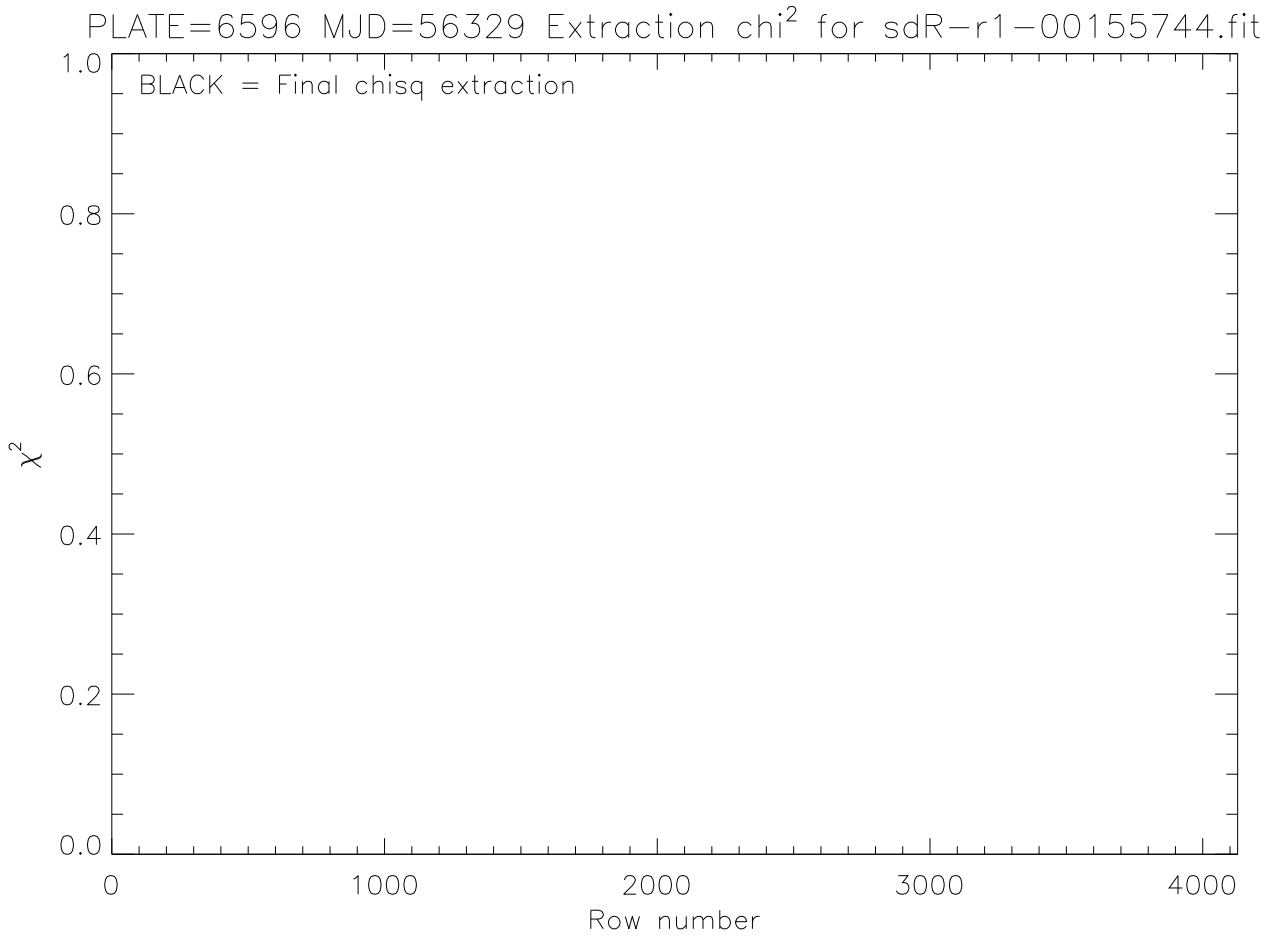


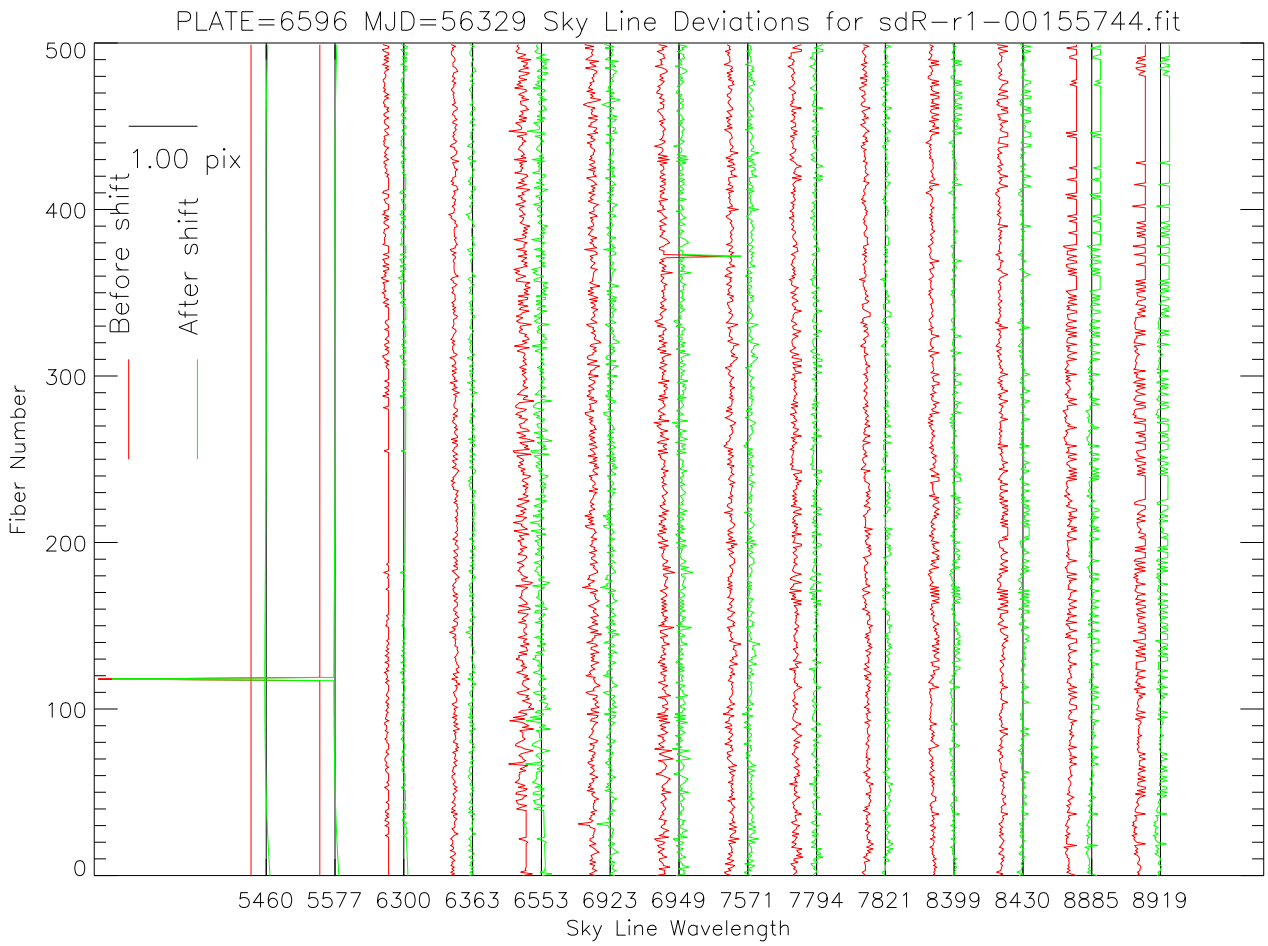

PLATE=6596 MJD=56329 flat extraction chi^2 for sdR-r1-00155743.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number

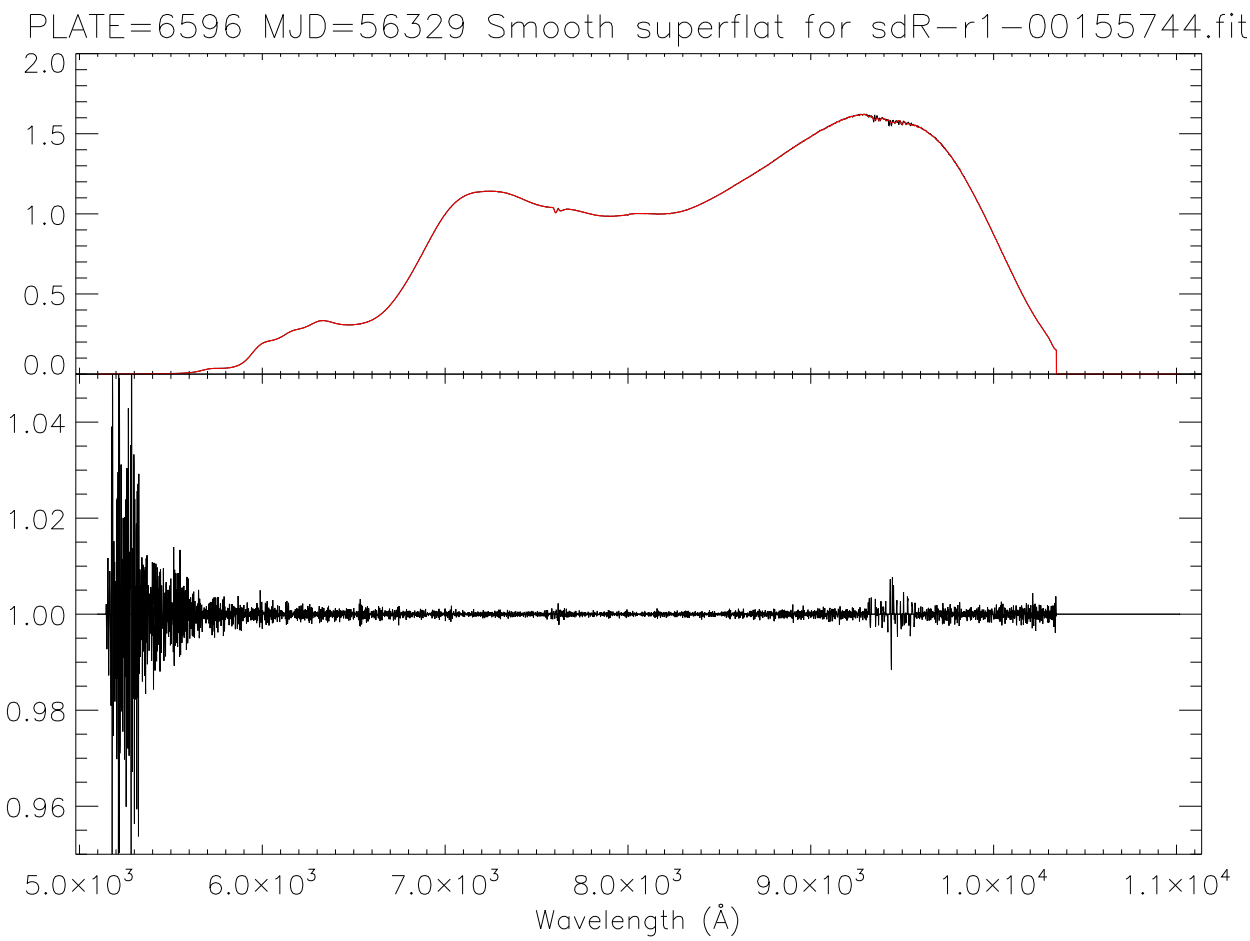

PLATE=6596 MJD=56329 Superflat sdR-r1-00155743.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
0.0
0.5
1.0
1.5
6000
7000
8000
9000
10000
λ [A]

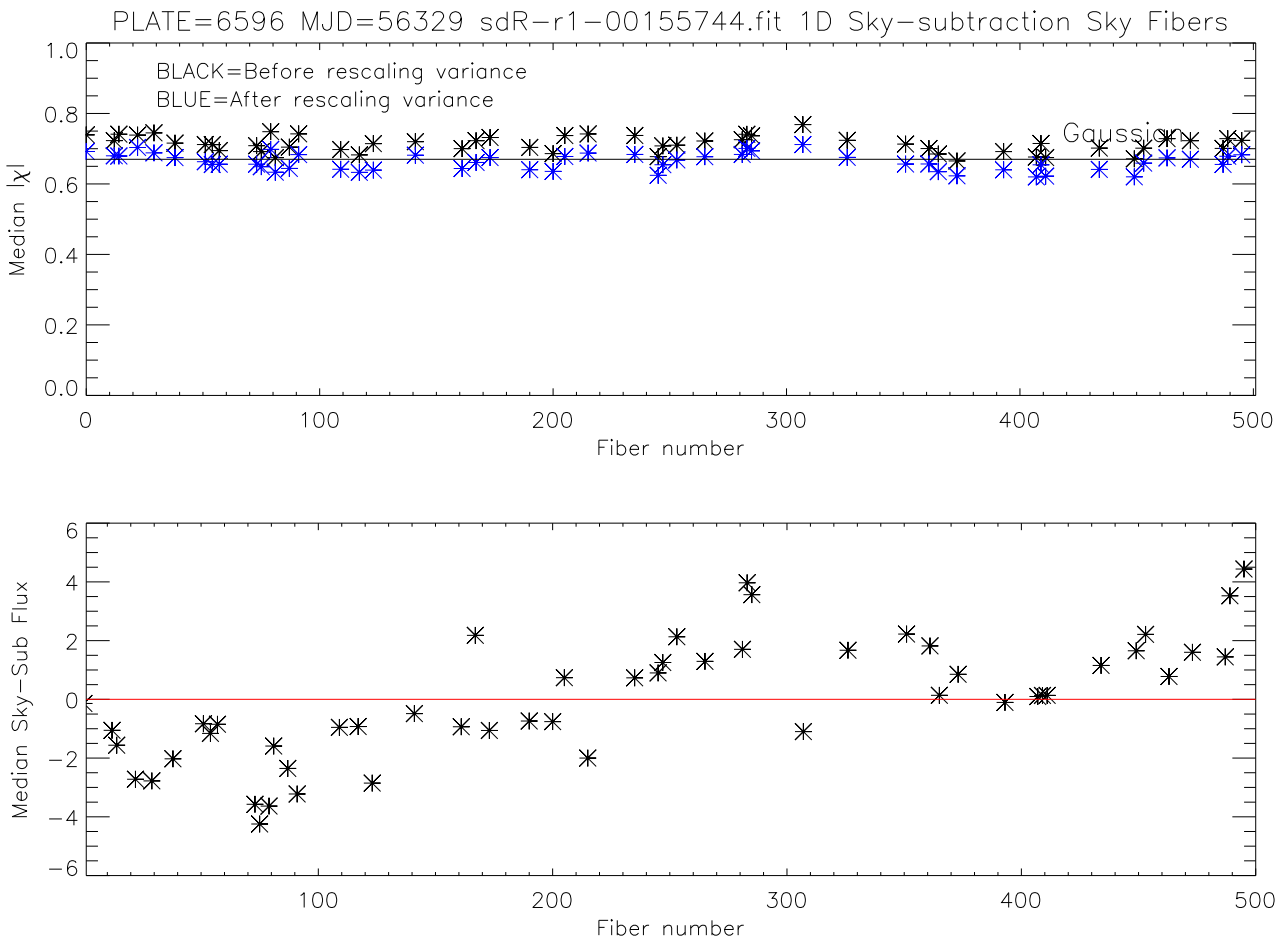

PLATE=6596 MJD=56329 Arcline Fit for sdR-r1-00155742.fit
Fiber Number
500
400
300
200
100
0
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A] + 300 * Deviation
Ncoeff = 6
Deviation [pix]
0.15
0.10
0.05
−0.00
−0.05
−0.10
−0.15
λ [A]
Sat May 28 09:24:27 2016

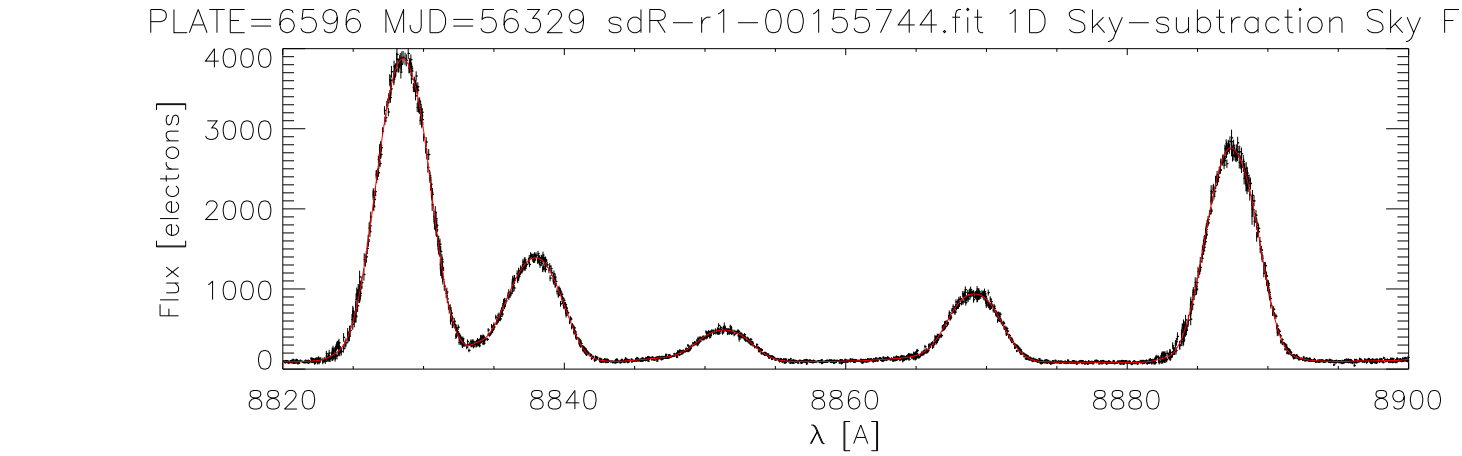

PLATE=6596 MJD=56329 Fiber−Flats for sdR−r1−00155743.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −5.821
Max value = 6988.362
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Sat May 28 09:24:42 2016

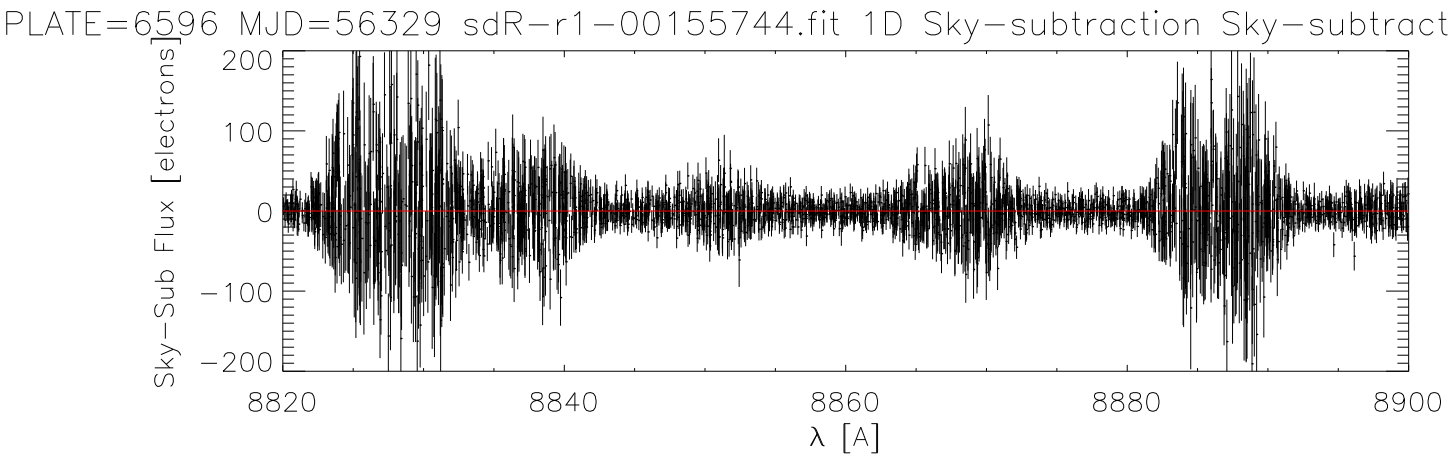

PLATE=6596 MJD=56329 Extraction chi^2 for sdR−r1−00155744.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=6596 MJD=56329 Sky Line Deviations for sdR-r1-00155744.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

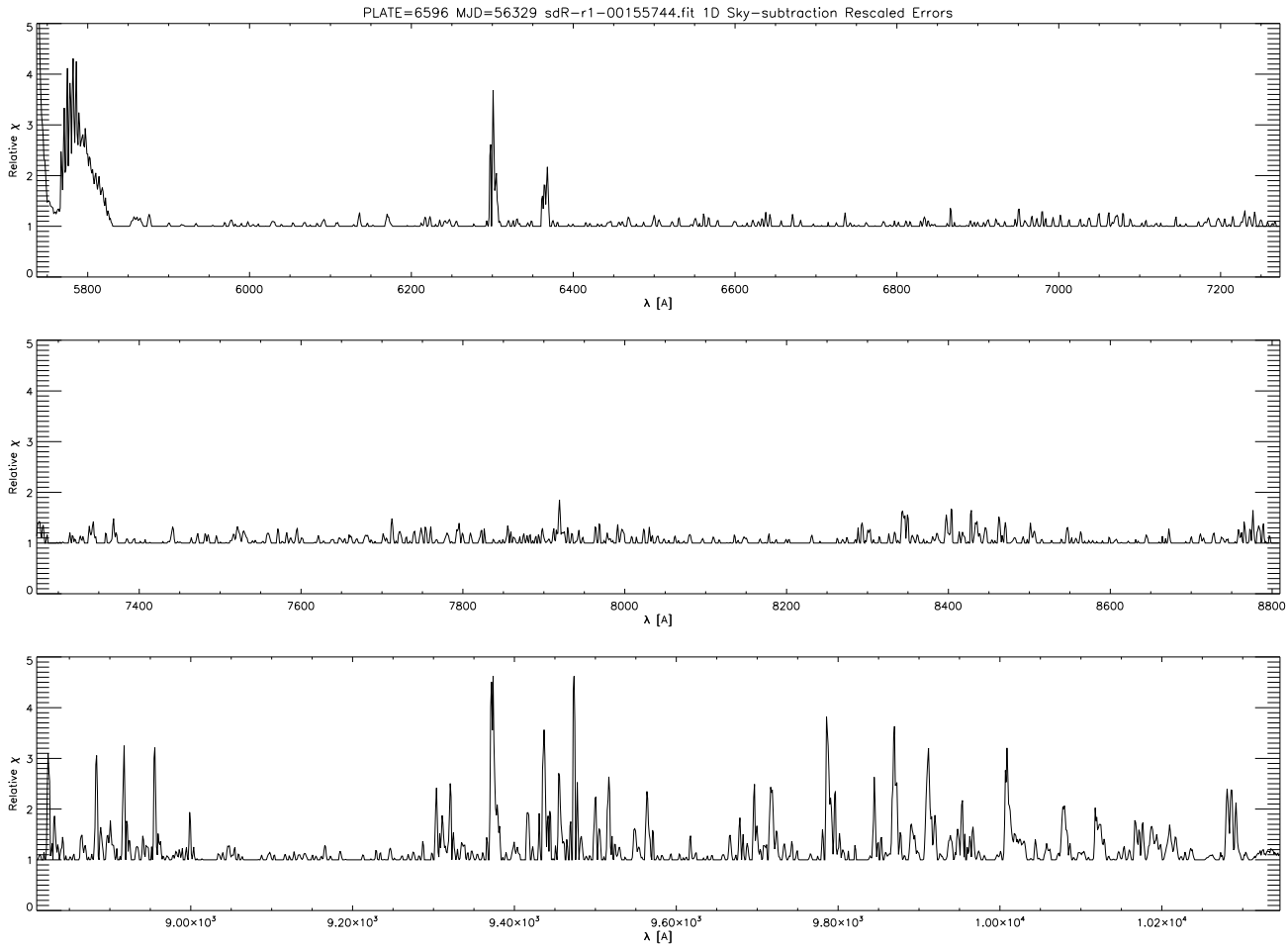

PLATE=6596 MJD=56329 Smooth superflat for sdR-r1-00155744.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

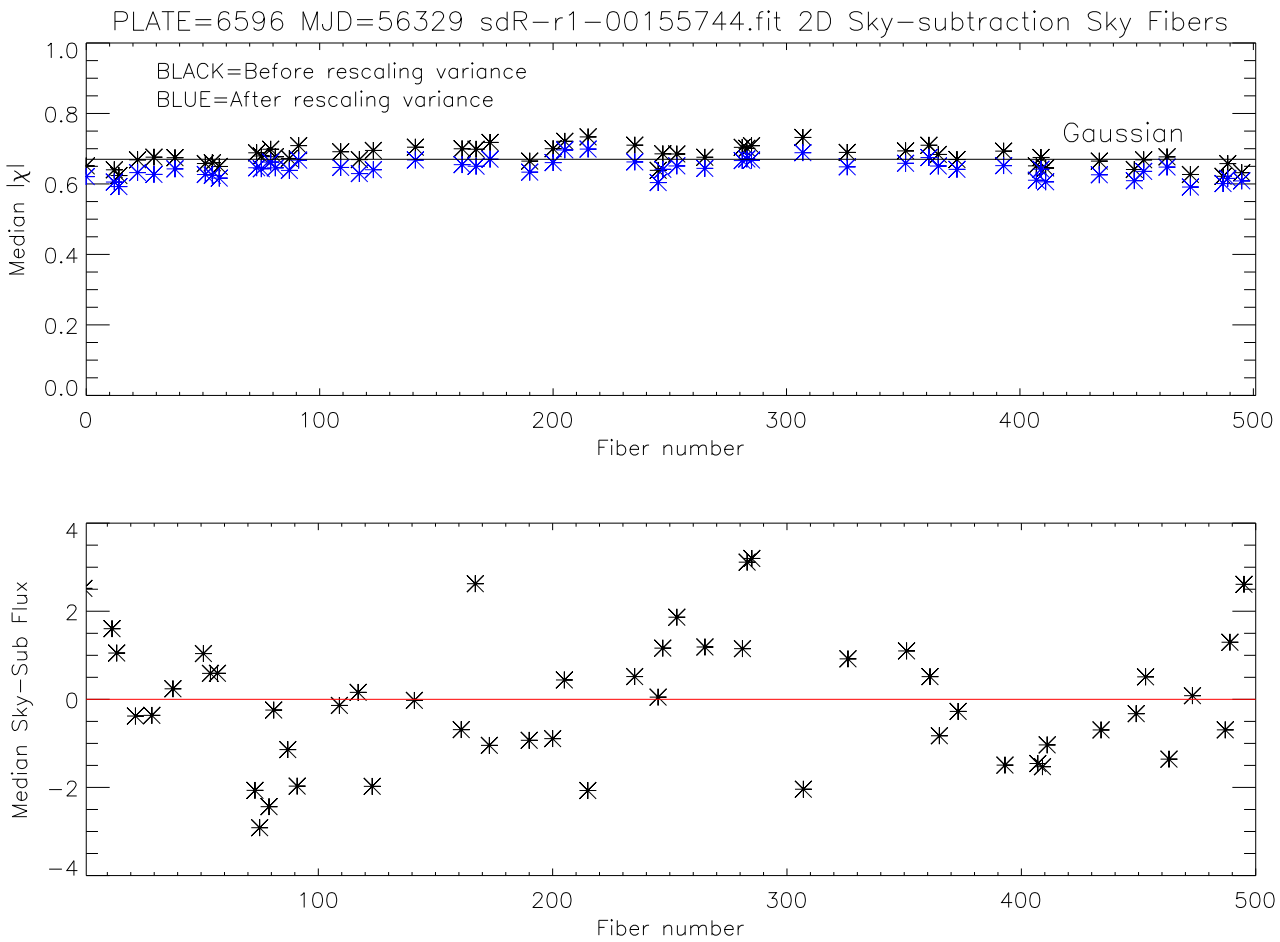

PLATE=6596 MJD=56329 sdR-r1-00155744.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

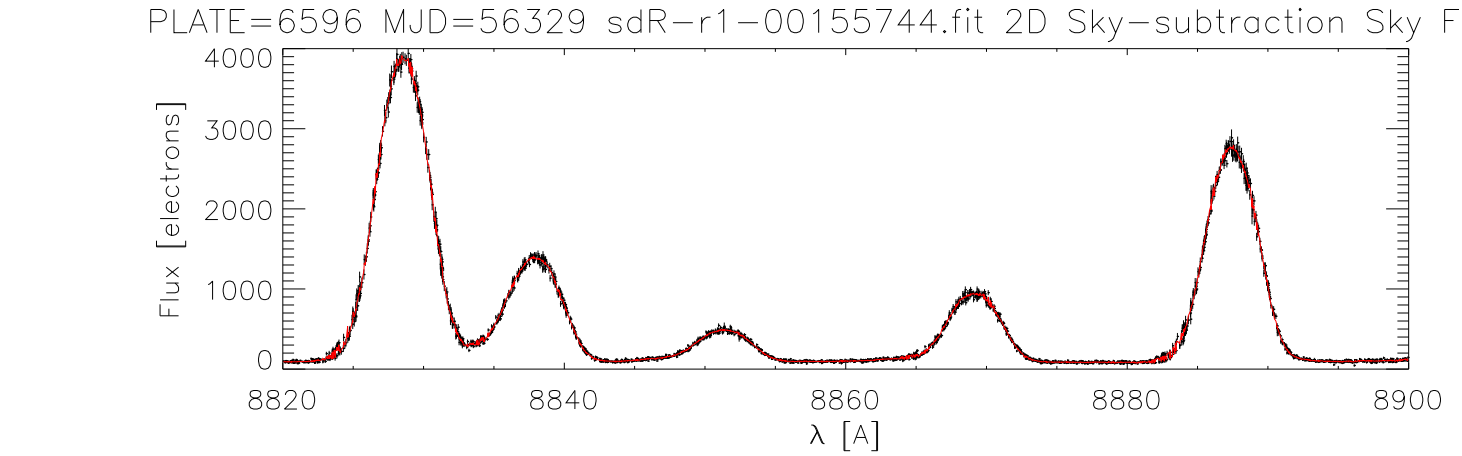

PLATE=6596 MJD=56329 sdR-r1-00155744.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

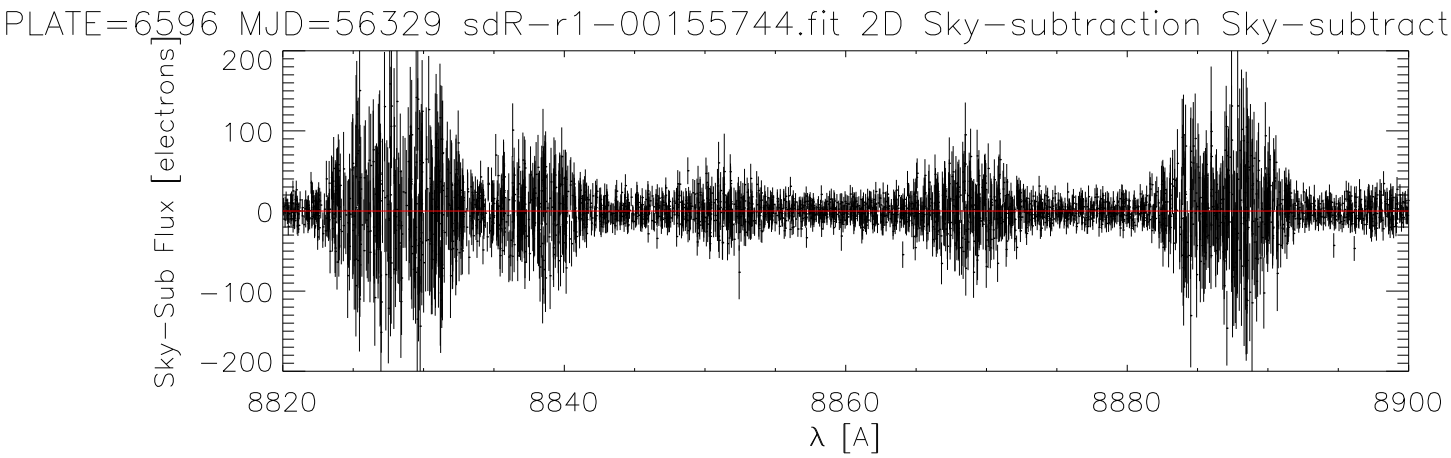

PLATE=6596 MJD=56329 sdR-r1-00155744.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 52

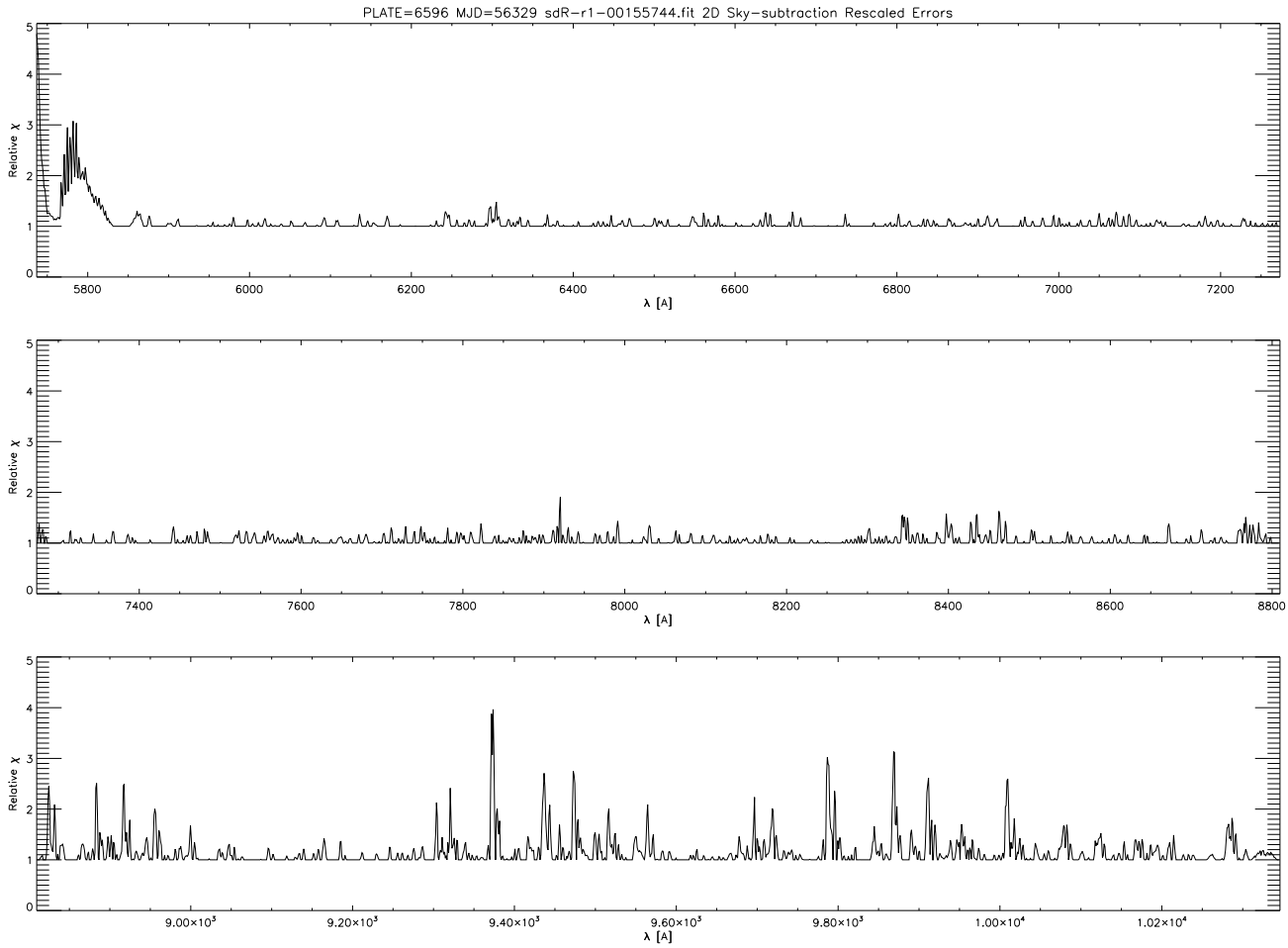


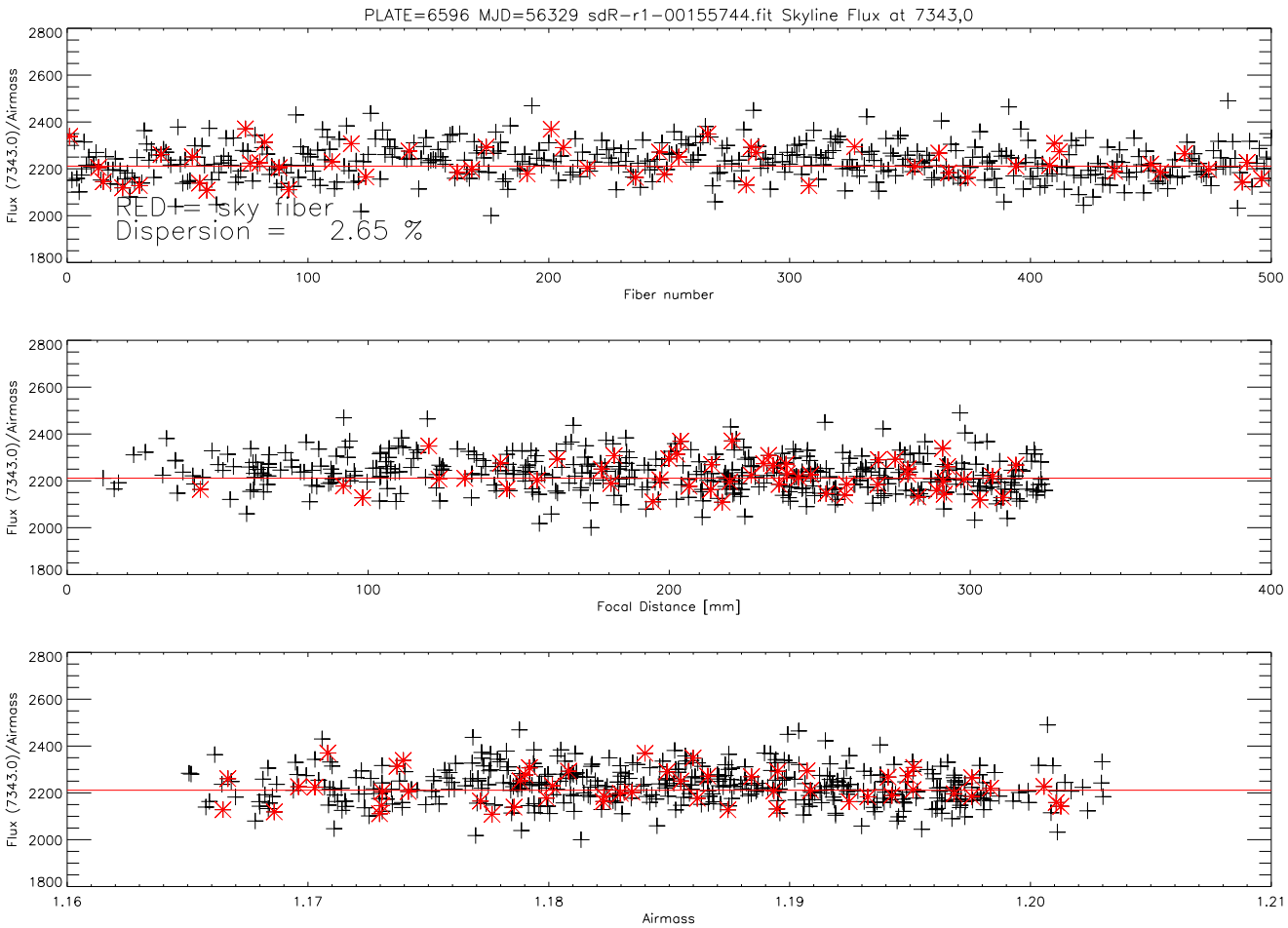

PLATE=6596 MJD=56329 sdR-r1-00155744.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

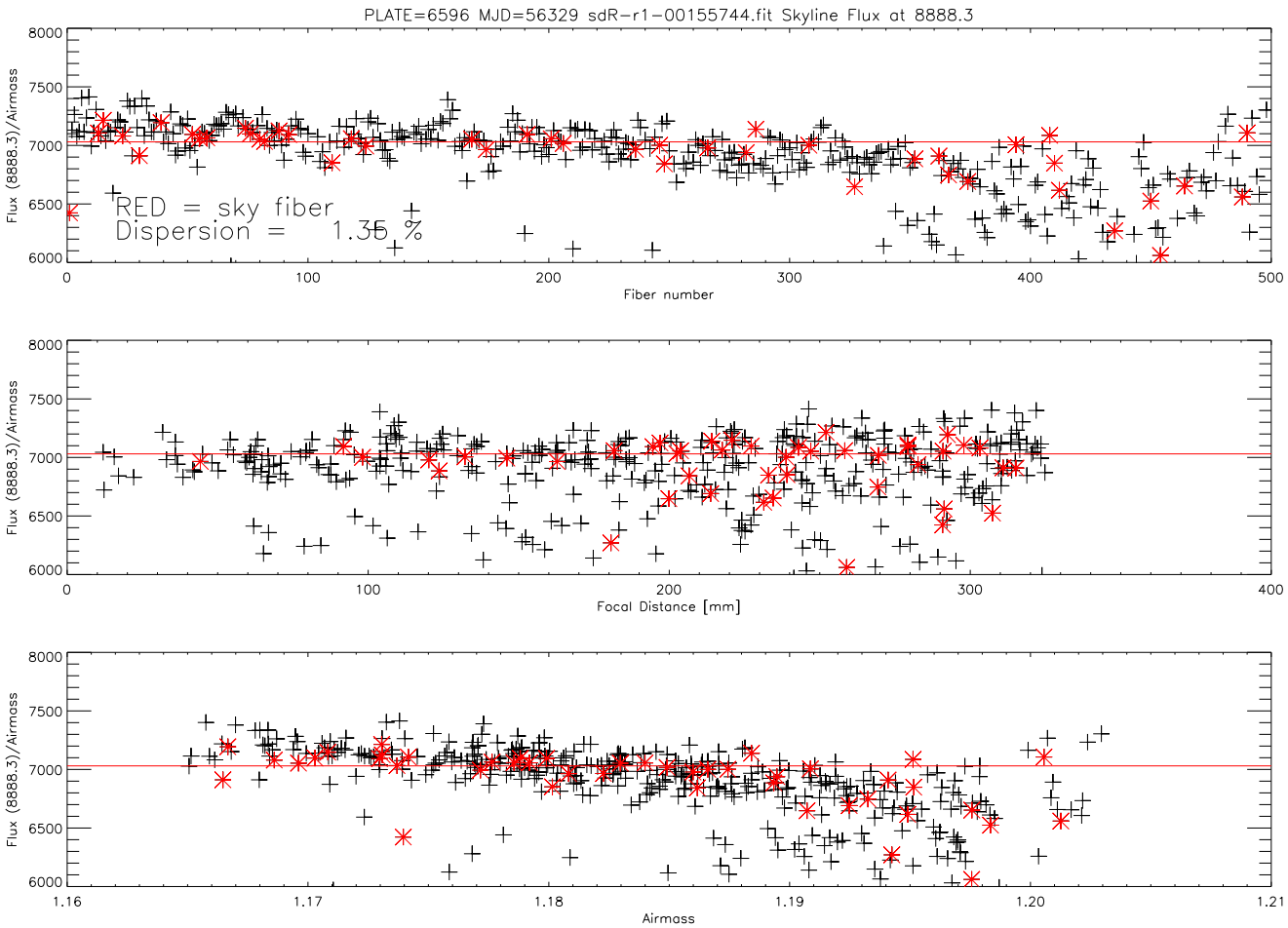

PLATE=6596 MJD=56329 sdR-r1-00155744.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

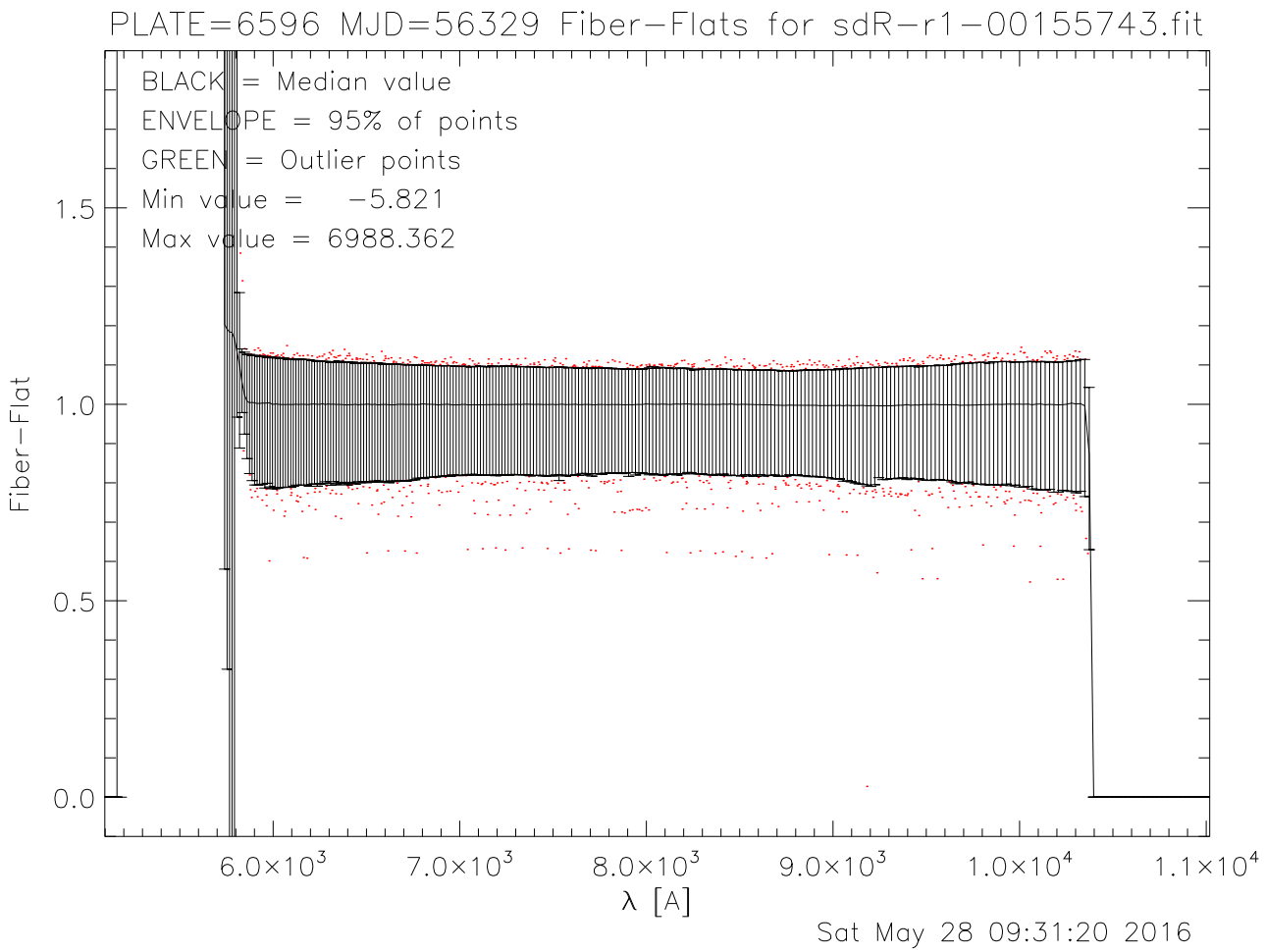

PLATE=6596 MJD=56329 sdR-r1-00155744.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

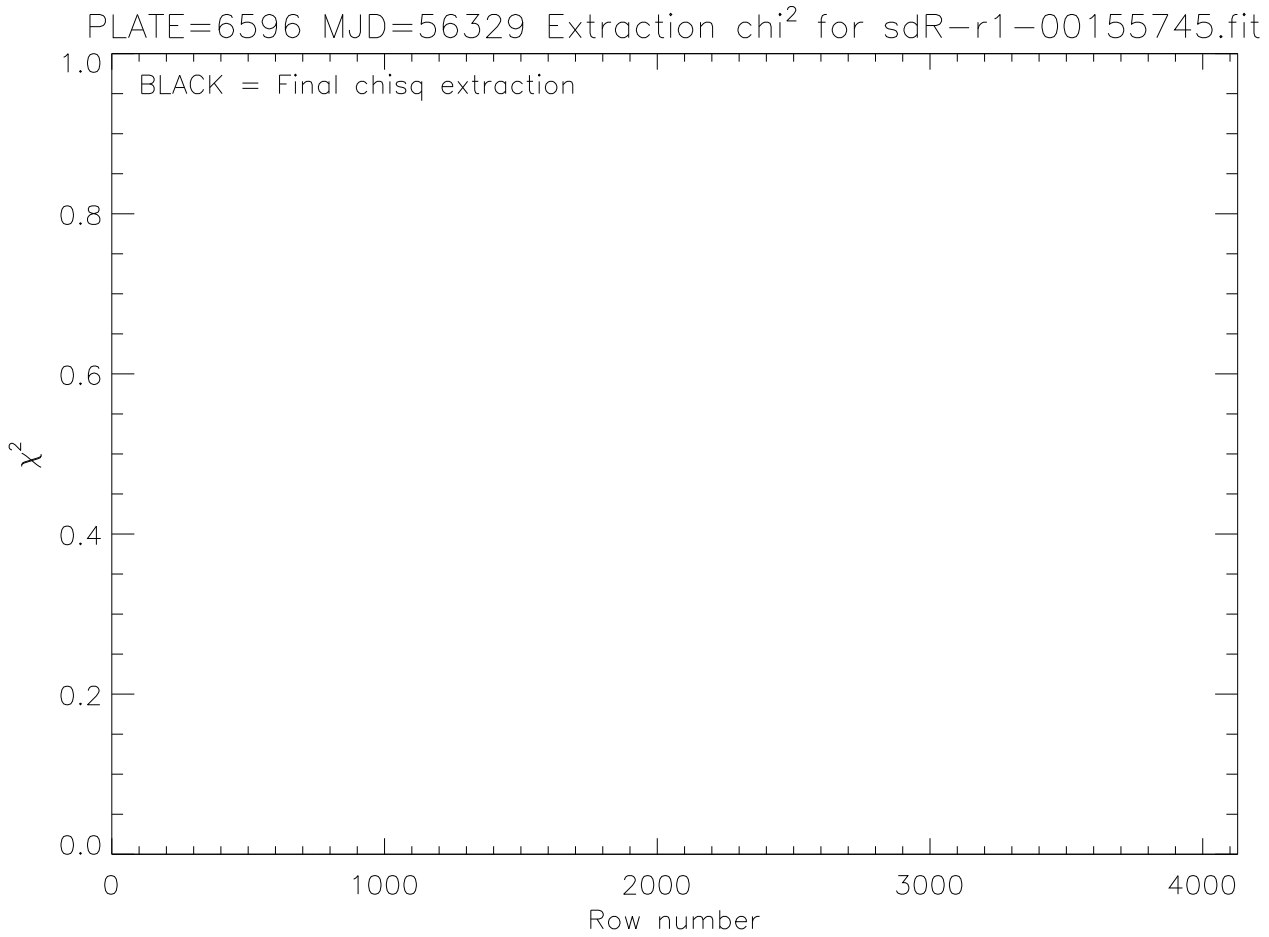
Number of sky fibers = 52

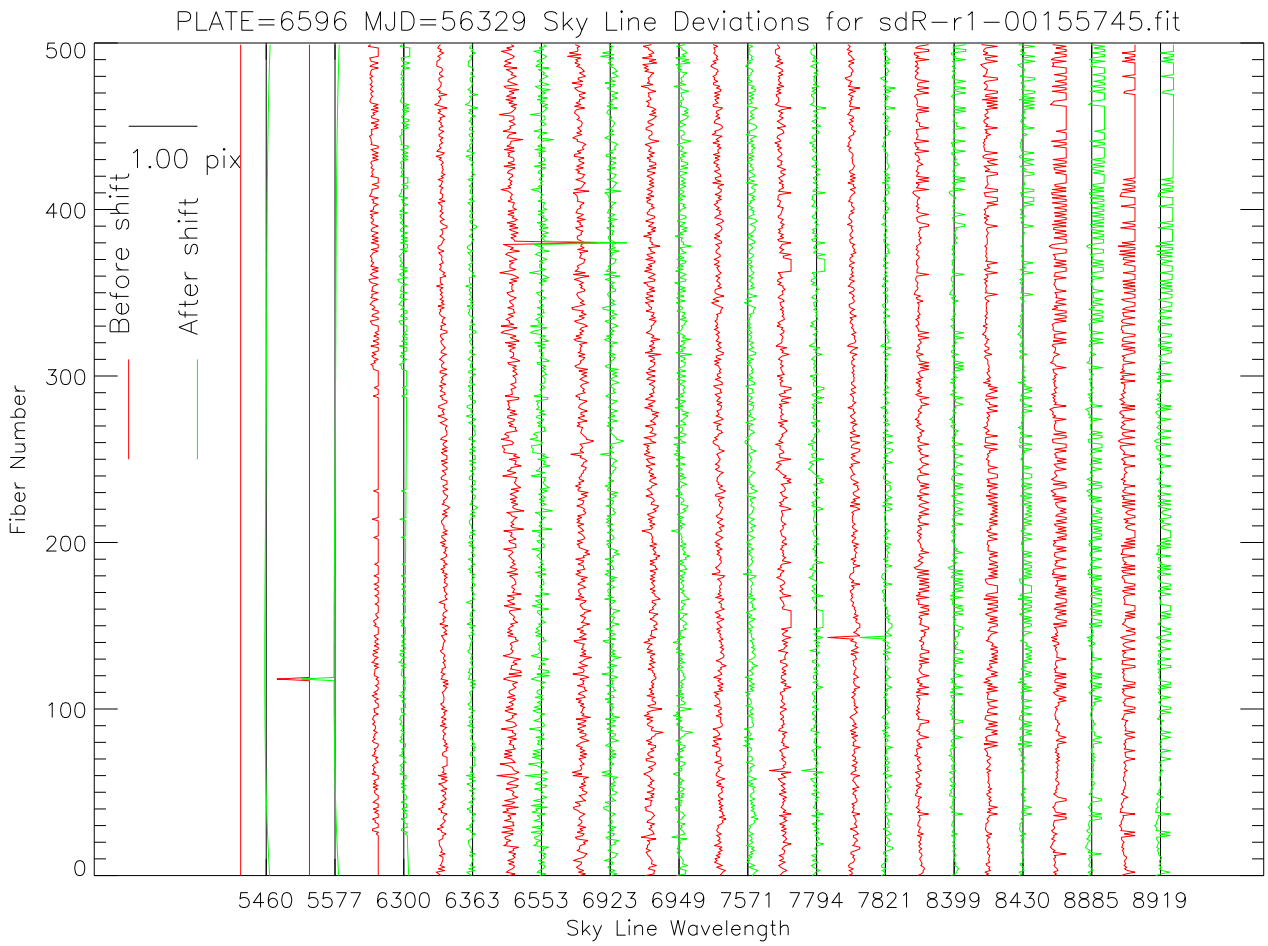


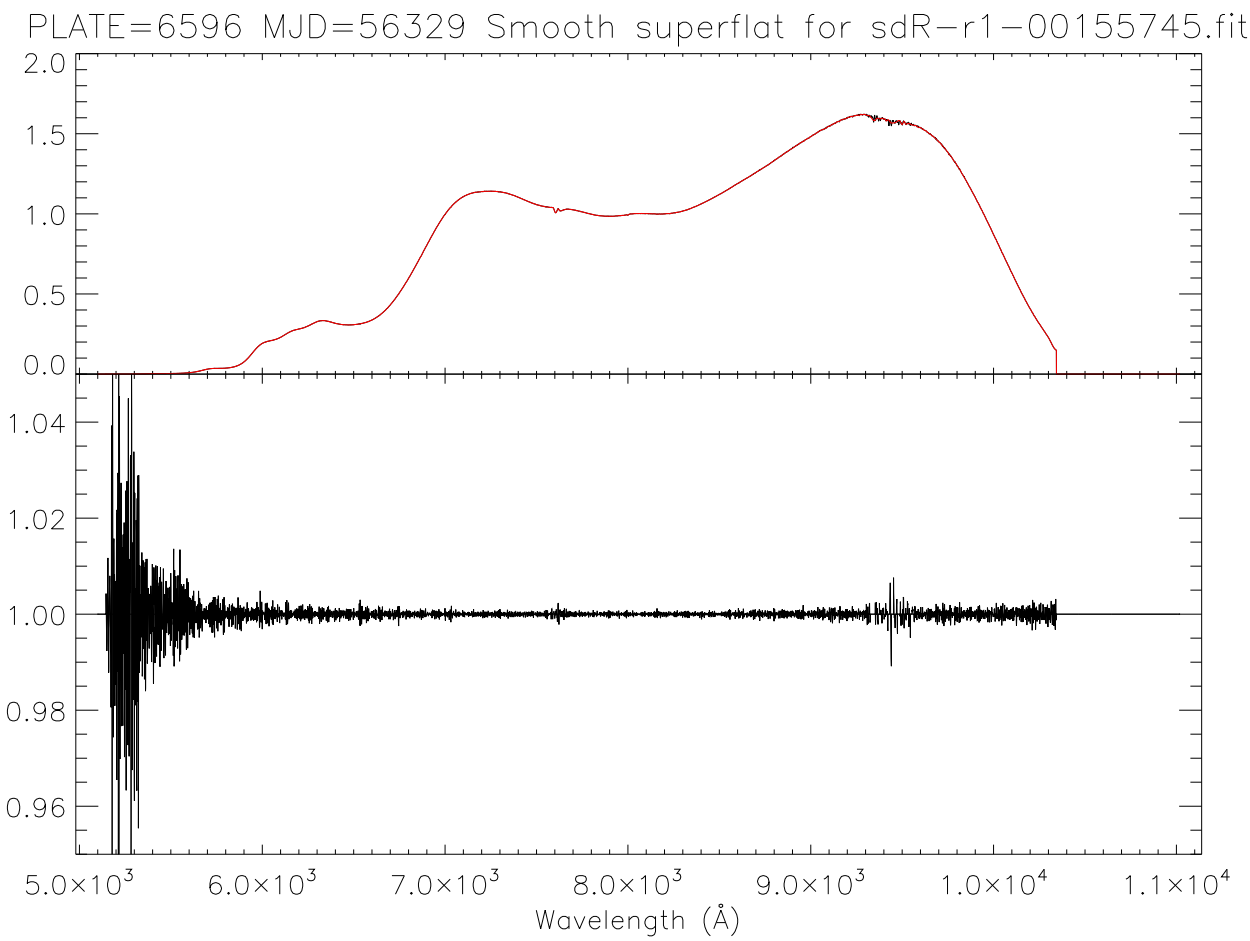

PLATE=6596 MJD=56329 sdR-r1-00155744.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED+= sky fiber +
Dispersion = 2.65 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

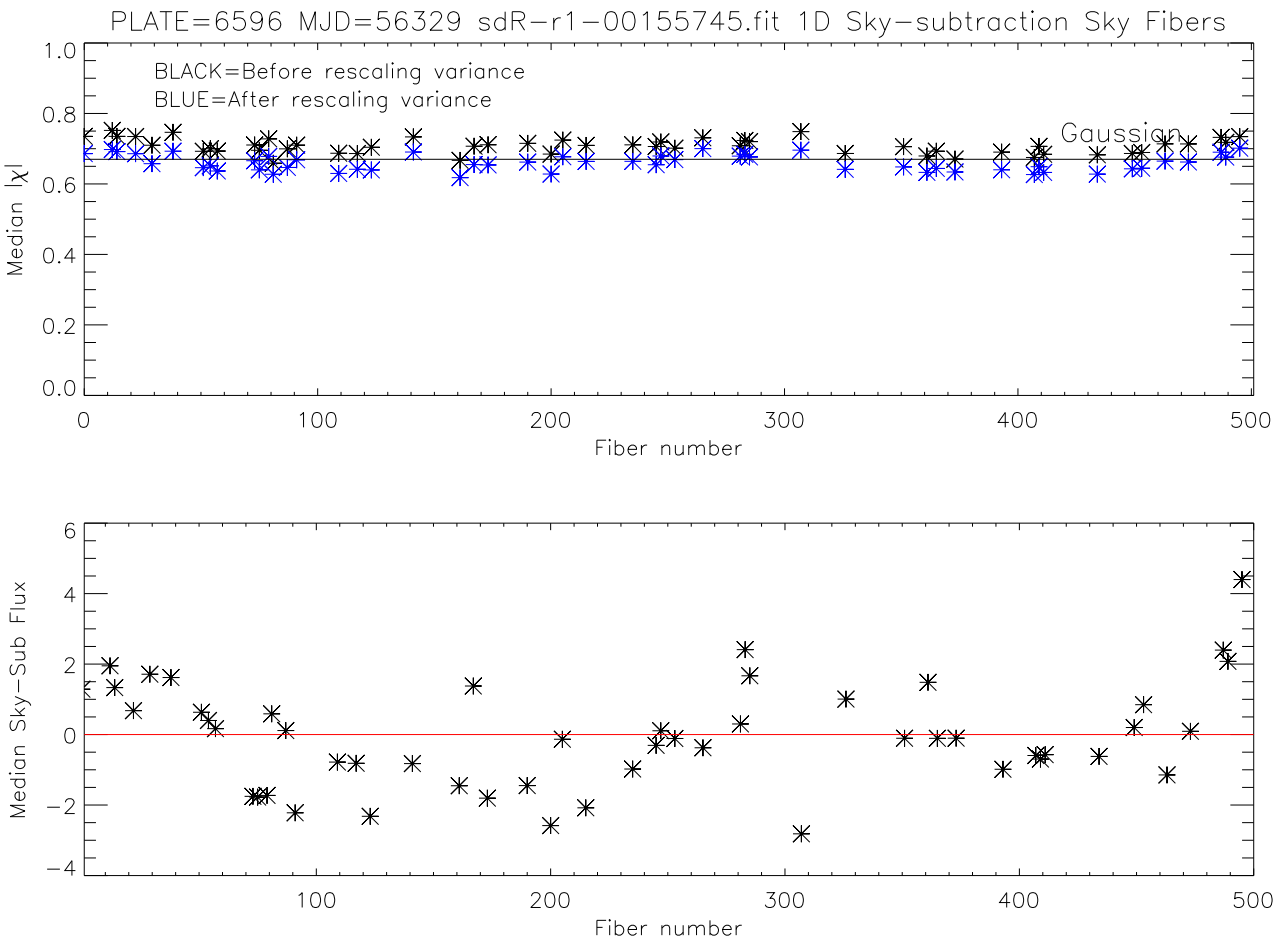

PLATE=6596 MJD=56329 sdR-r1-00155744.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.35 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

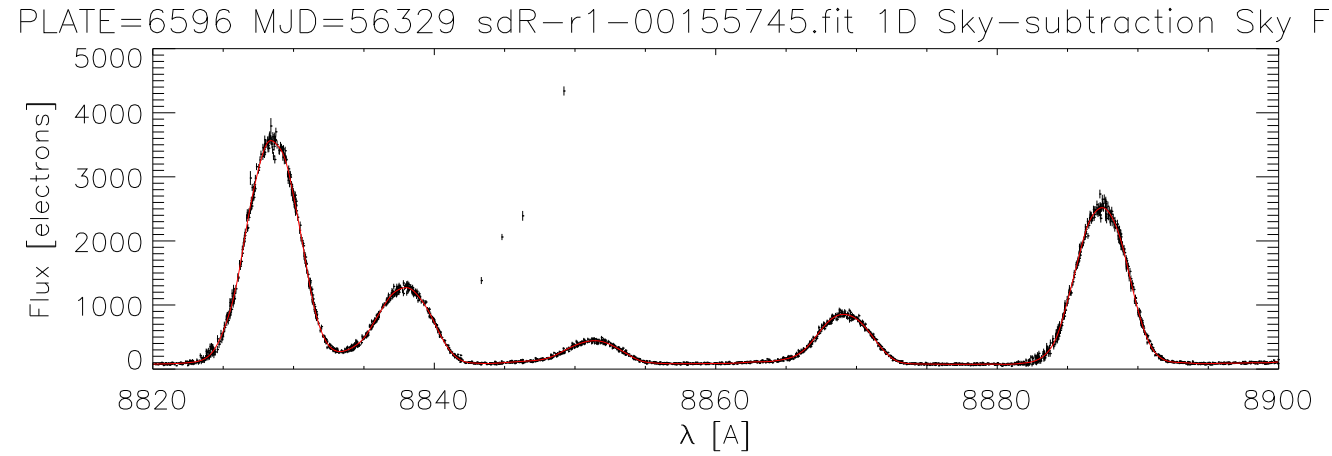

PLATE=6596 MJD=56329 Fiber−Flats for sdR−r1−00155743.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −5.821
Max value = 6988.362
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Sat May 28 09:31:20 2016

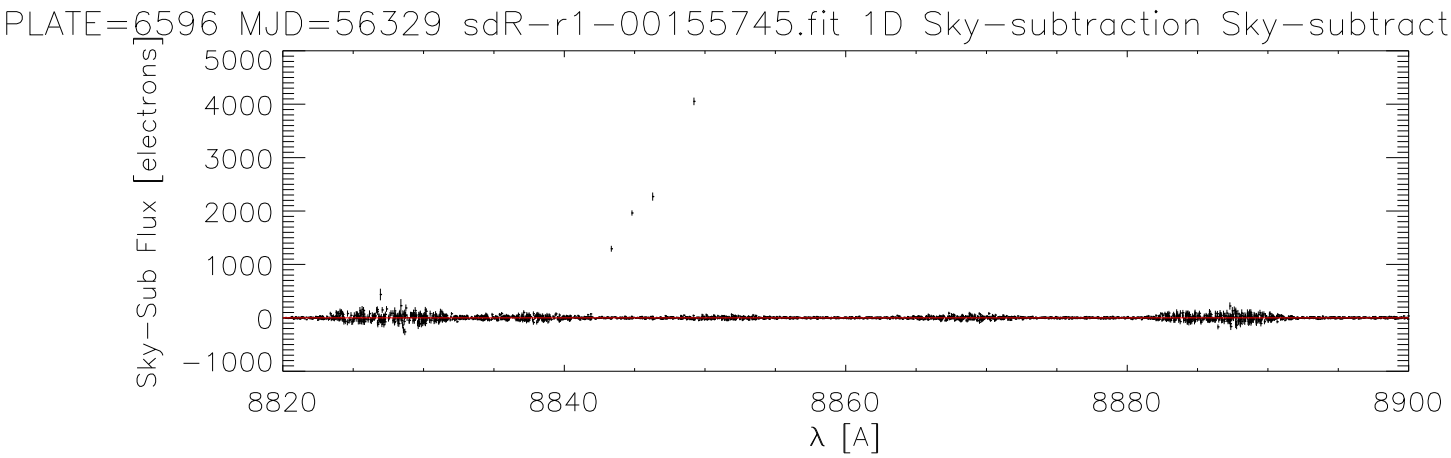

PLATE=6596 MJD=56329 Extraction chi^2 for sdR−r1−00155745.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=6596 MJD=56329 Sky Line Deviations for sdR-r1-00155745.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

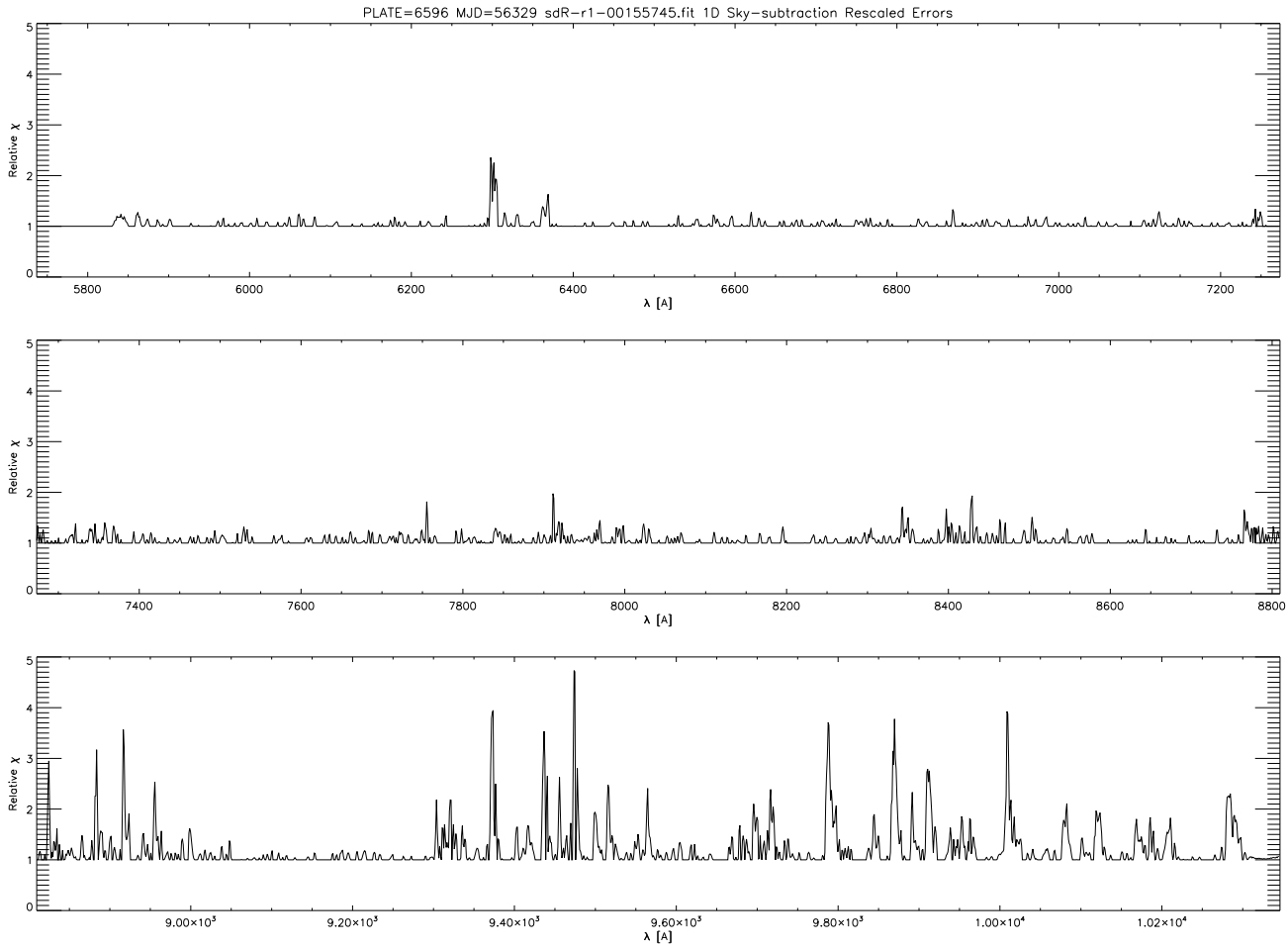

PLATE=6596 MJD=56329 Smooth superflat for sdR-r1-00155745.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

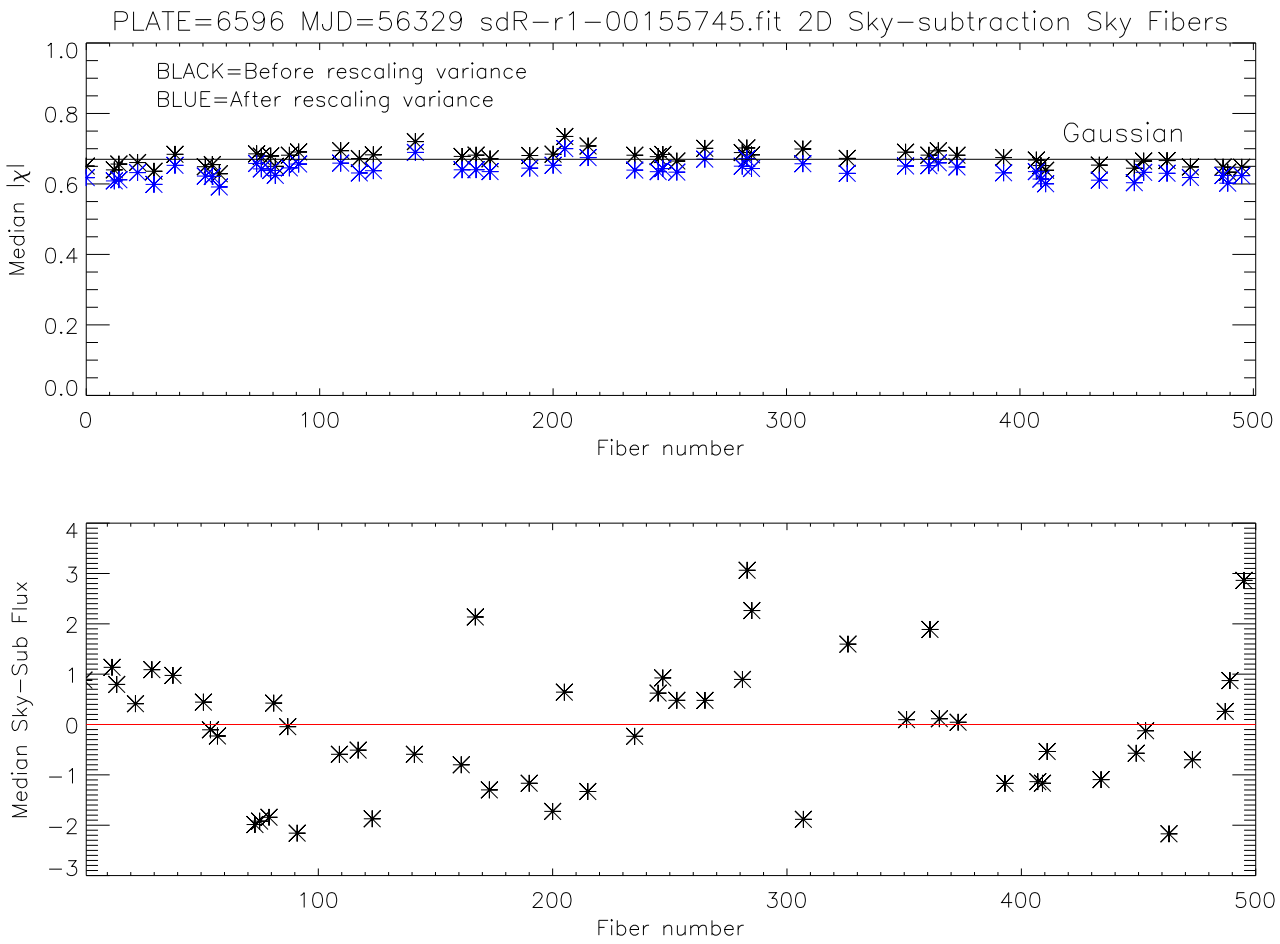

PLATE=6596 MJD=56329 sdR-r1-00155745.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

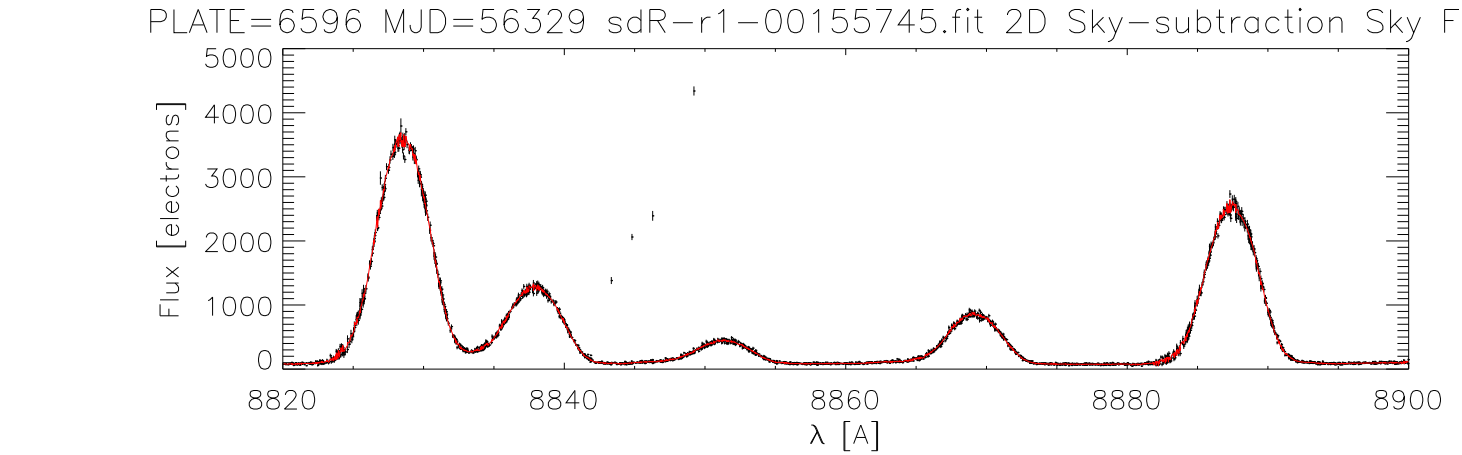

PLATE=6596 MJD=56329 sdR-r1-00155745.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

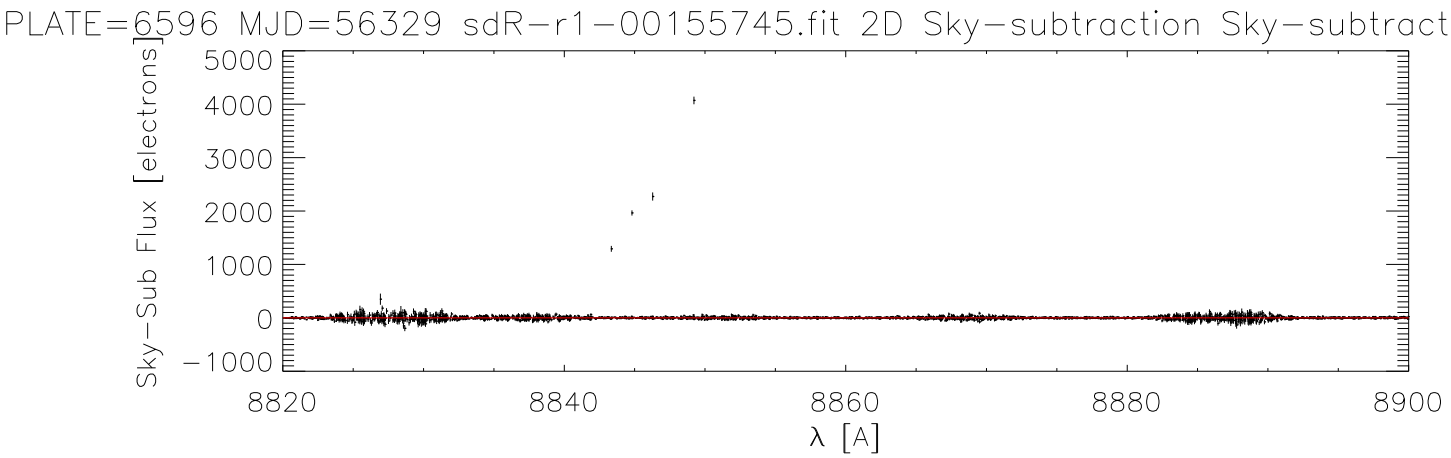

PLATE=6596 MJD=56329 sdR-r1-00155745.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
5000
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 52

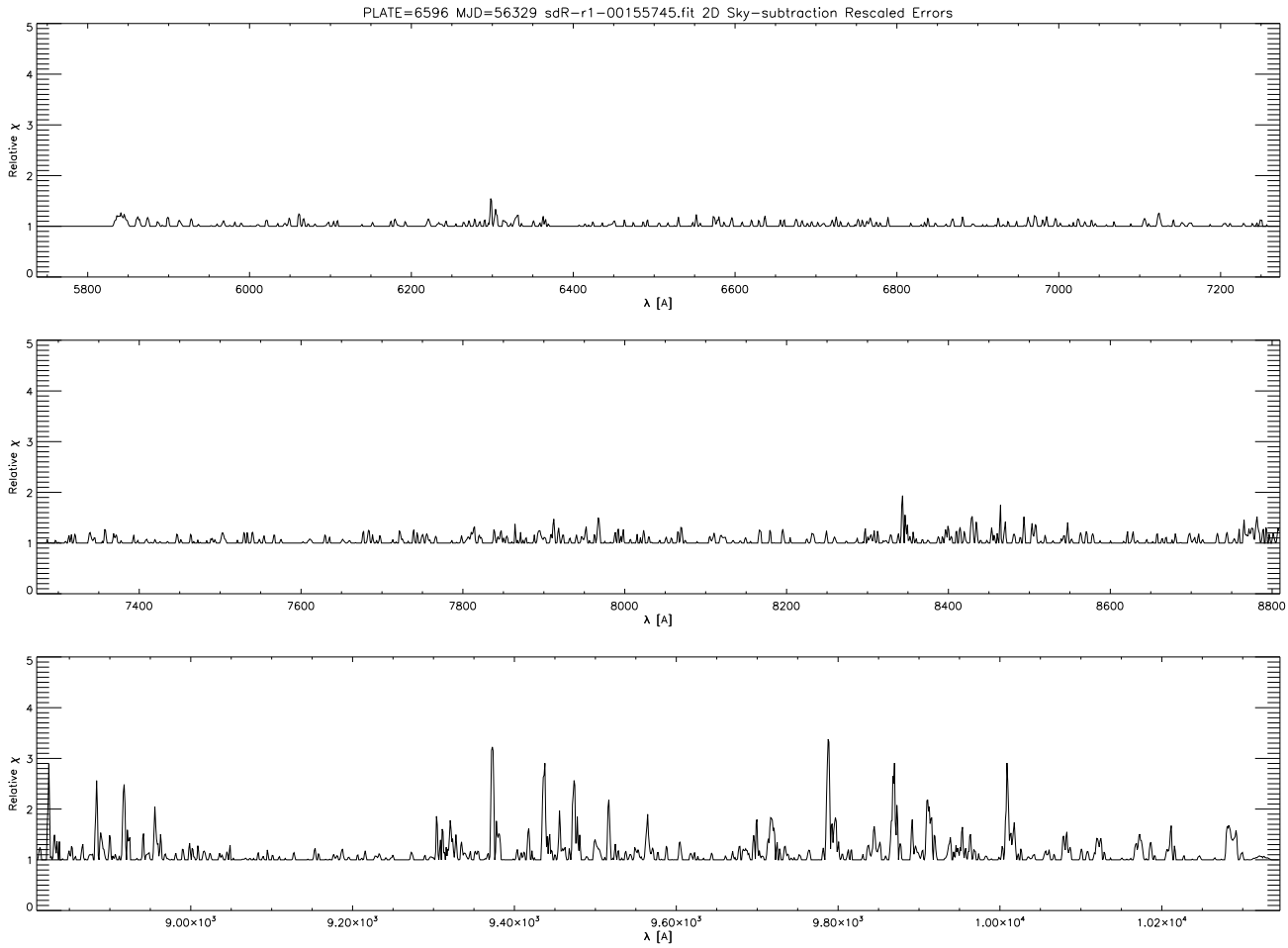


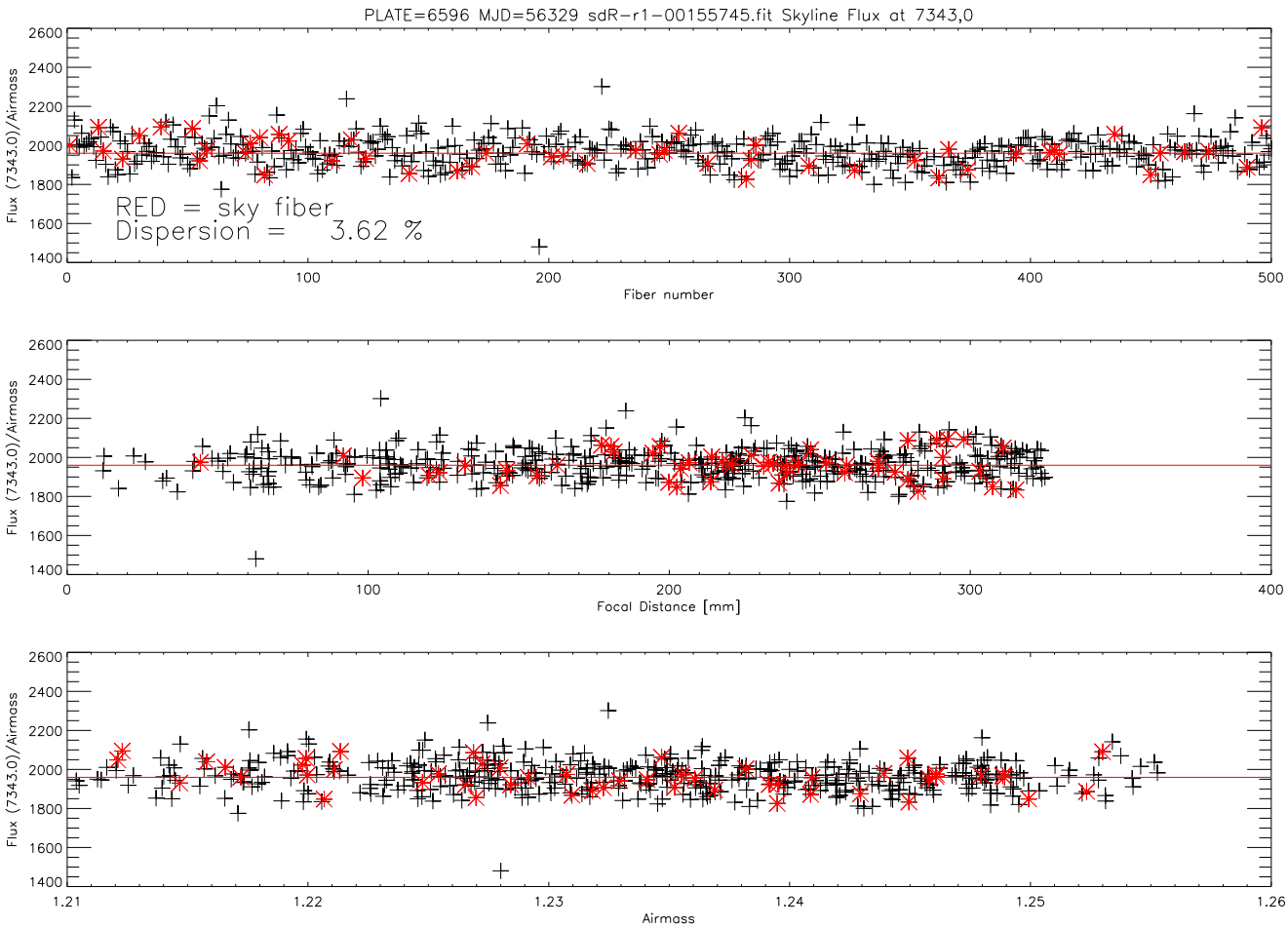

PLATE=6596 MJD=56329 sdR-r1-00155745.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

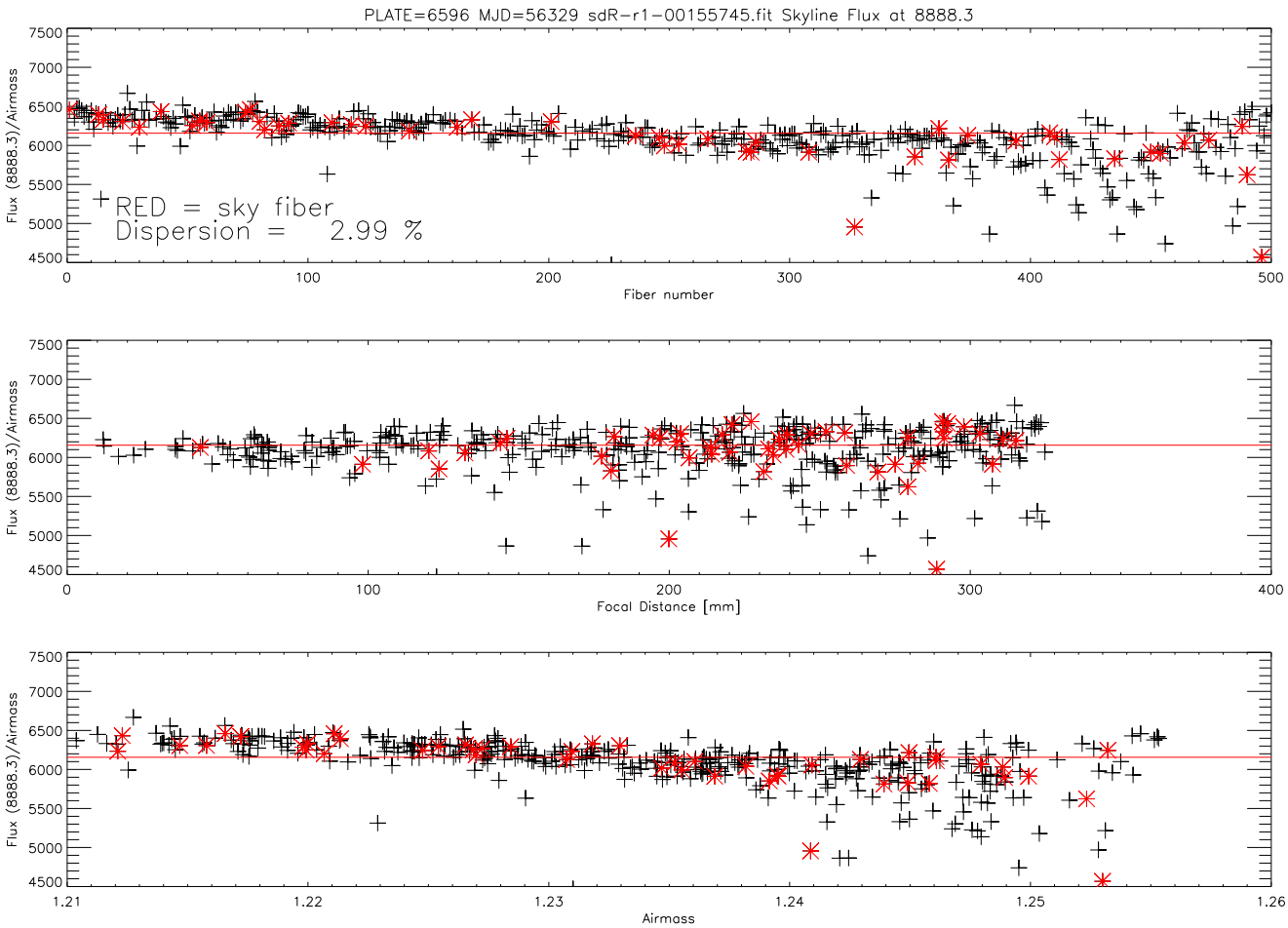

PLATE=6596 MJD=56329 sdR-r1-00155745.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

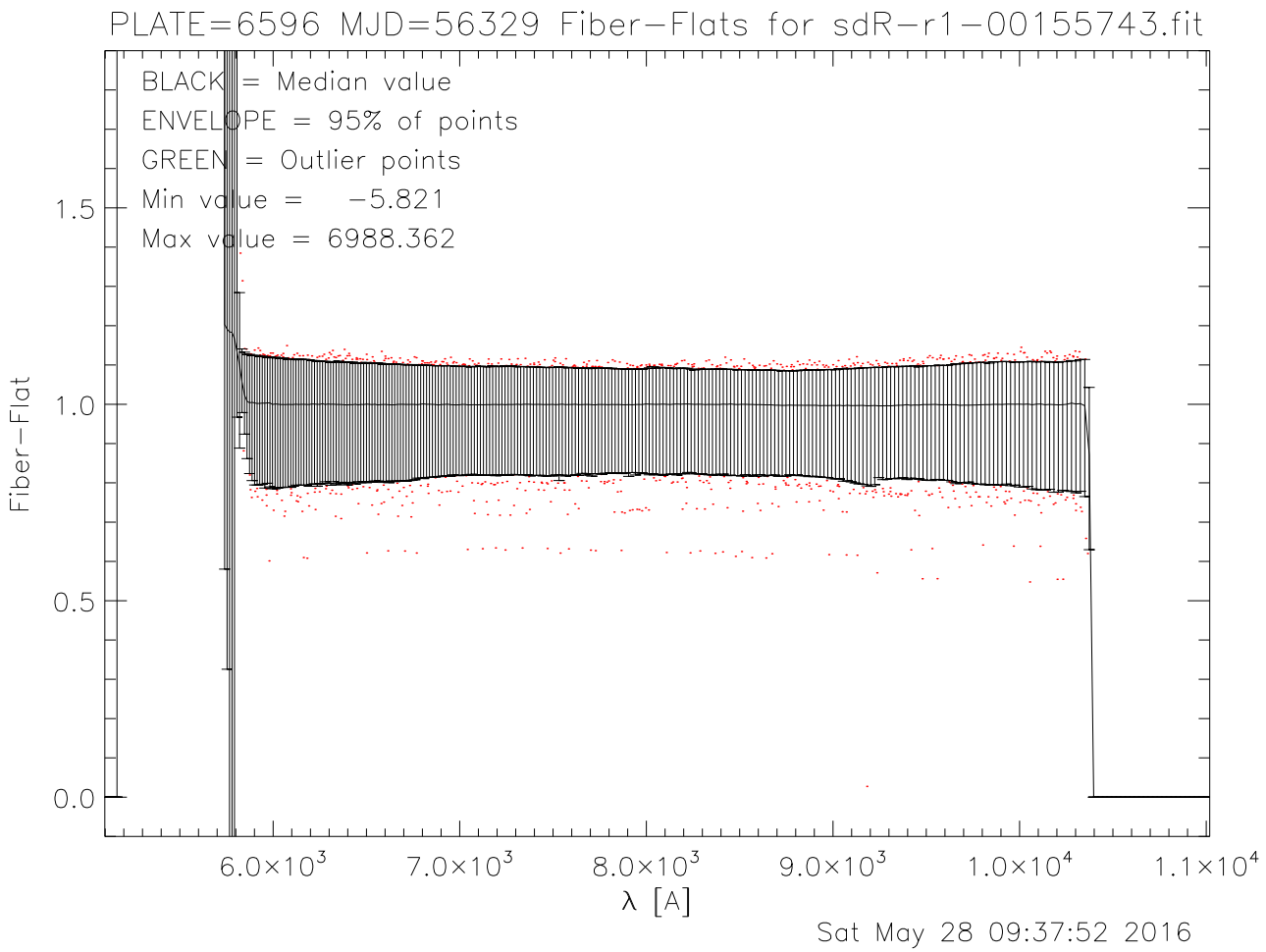

PLATE=6596 MJD=56329 sdR-r1-00155745.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
5000
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

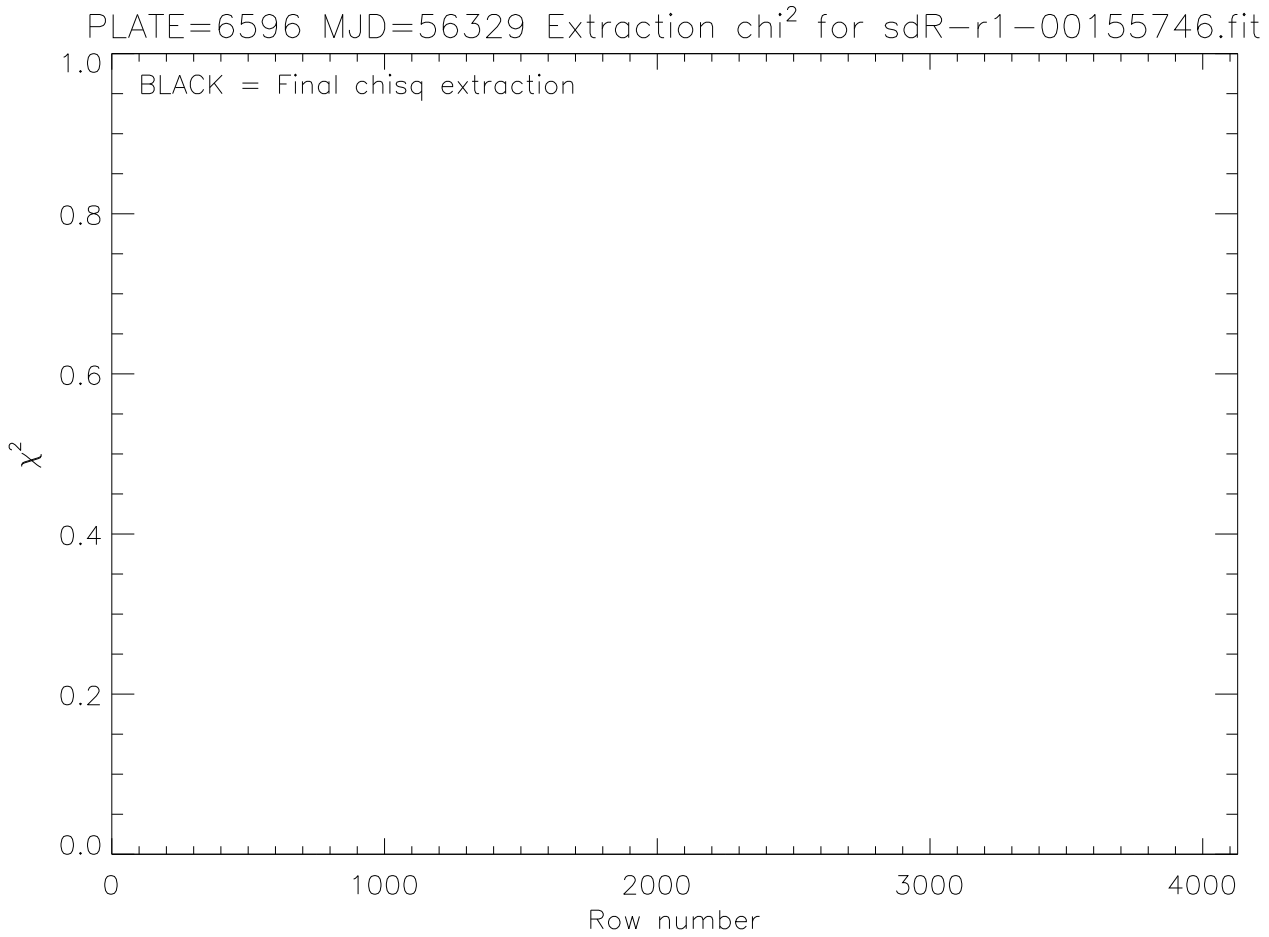
Number of sky fibers = 52

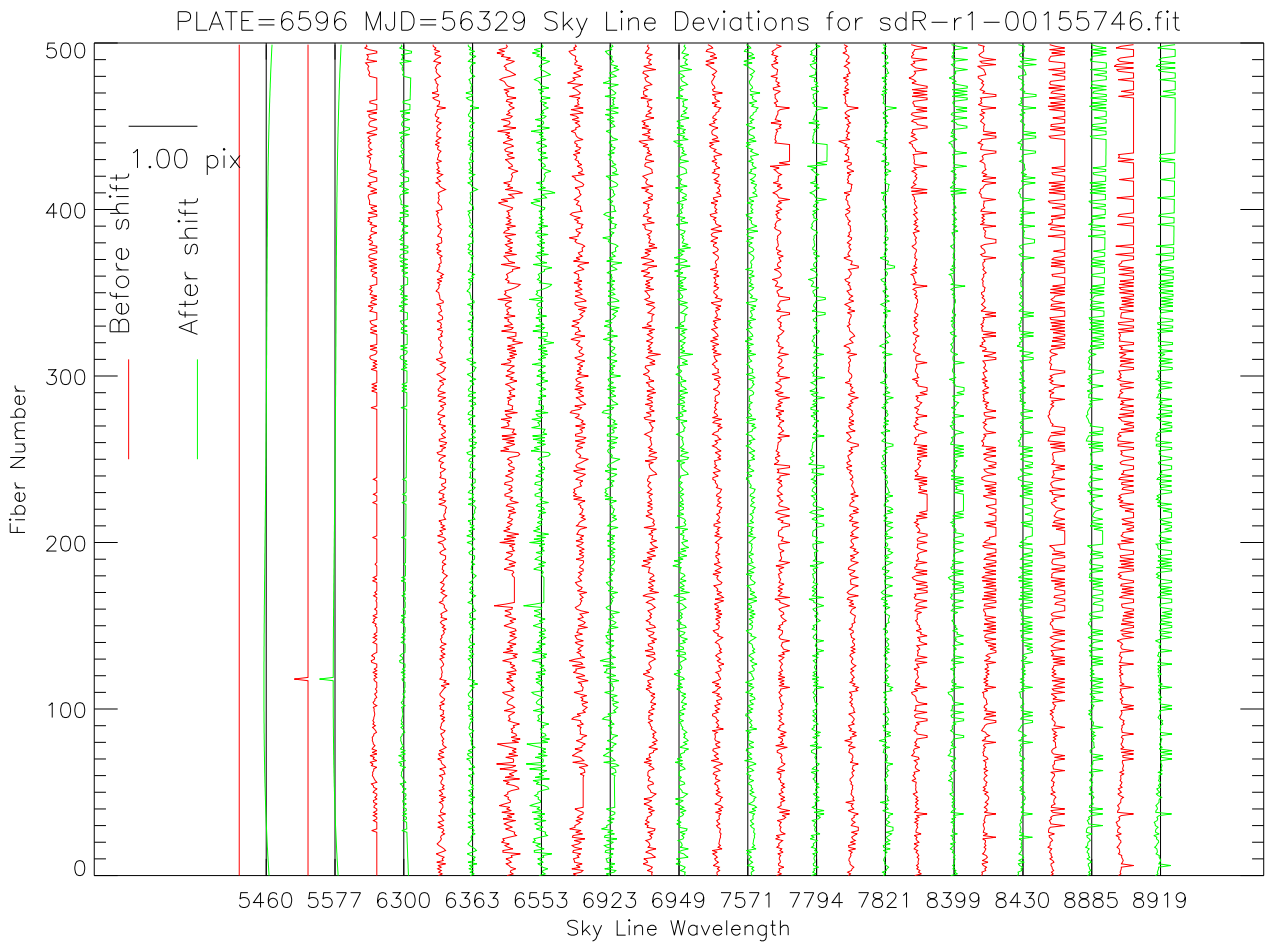


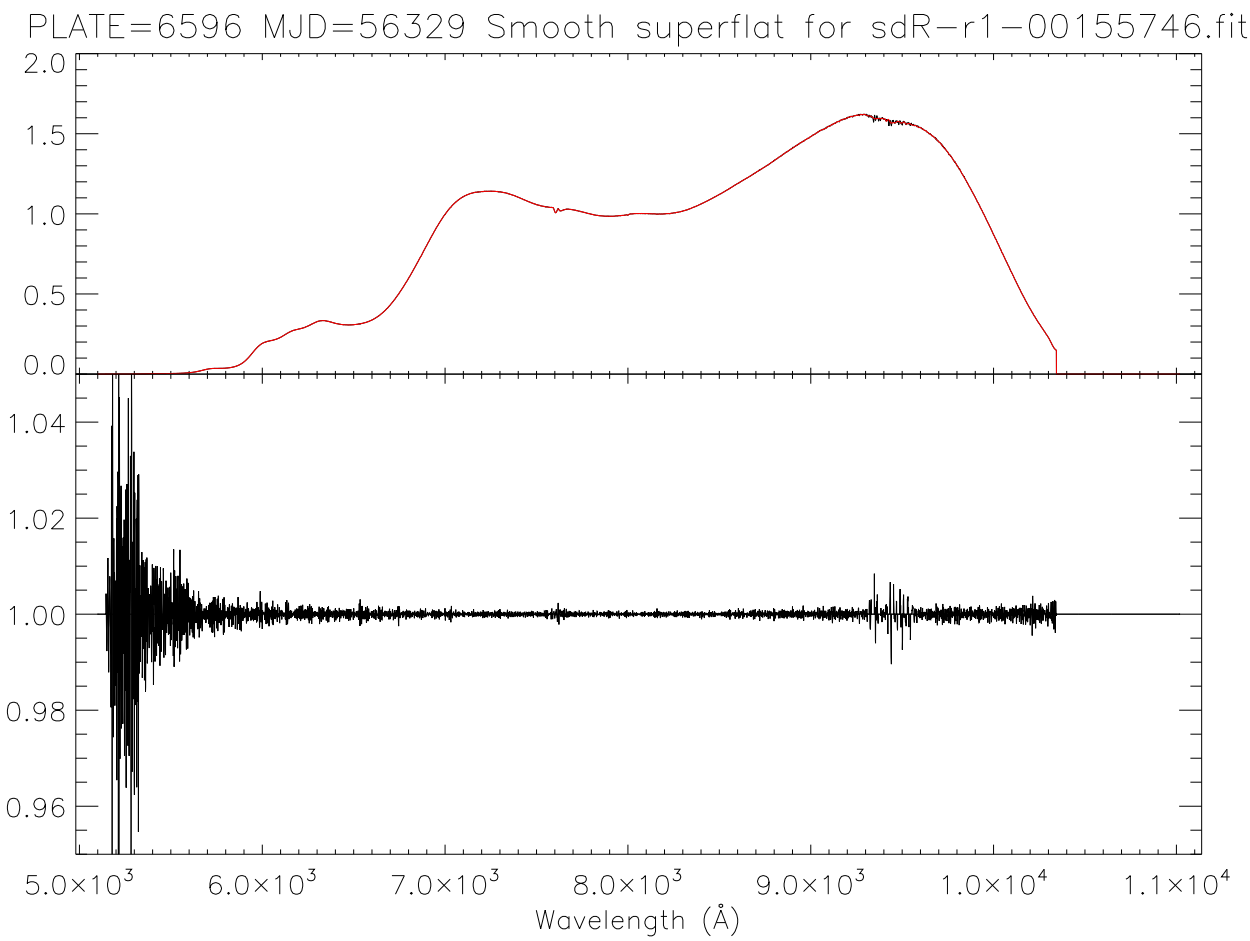

PLATE=6596 MJD=56329 sdR-r1-00155745.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.62 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

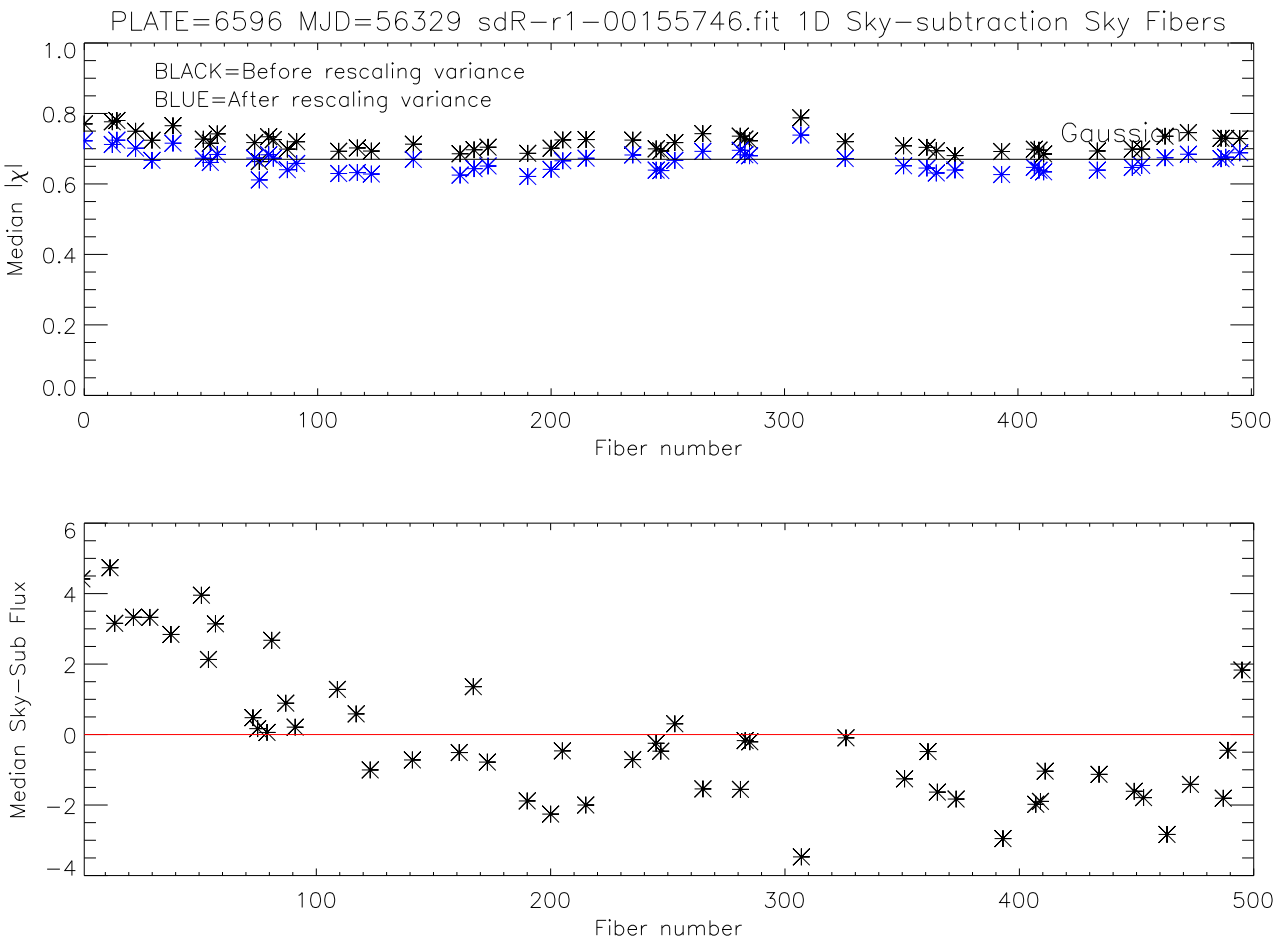

PLATE=6596 MJD=56329 sdR-r1-00155745.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.99 %
Fiber number
Focal Distance [mm]
Airmass

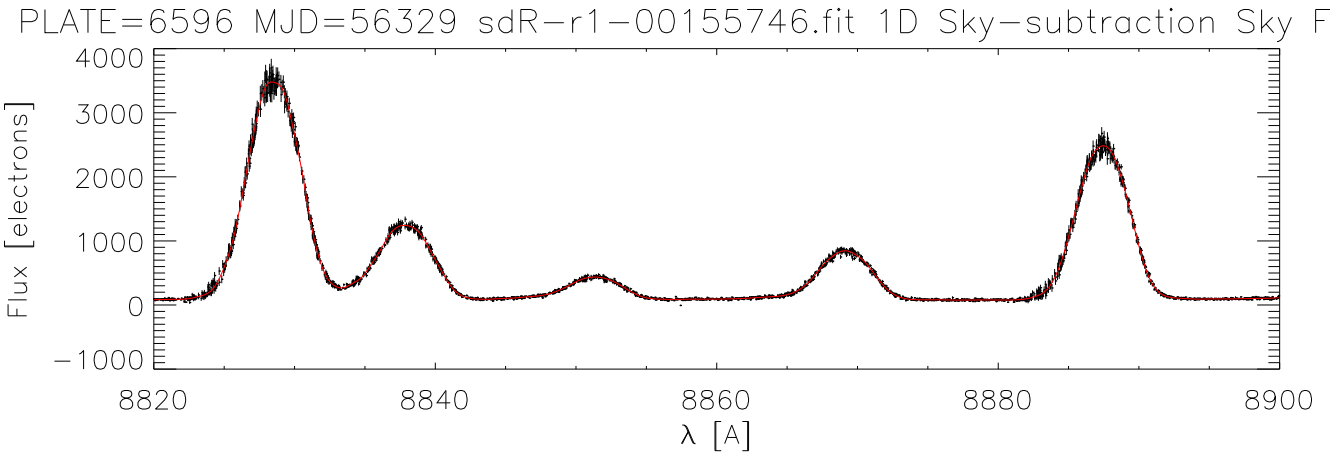

PLATE=6596 MJD=56329 Fiber−Flats for sdR−r1−00155743.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −5.821
Max value = 6988.362
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Sat May 28 09:37:52 2016

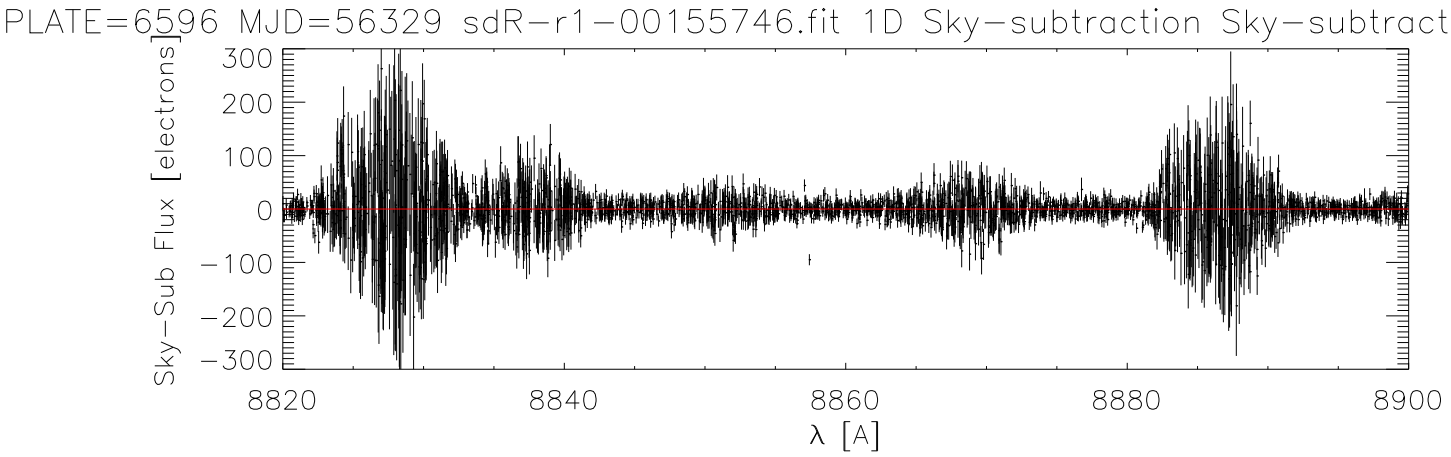

PLATE=6596 MJD=56329 Extraction chi^2 for sdR−r1−00155746.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=6596 MJD=56329 Sky Line Deviations for sdR-r1-00155746.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

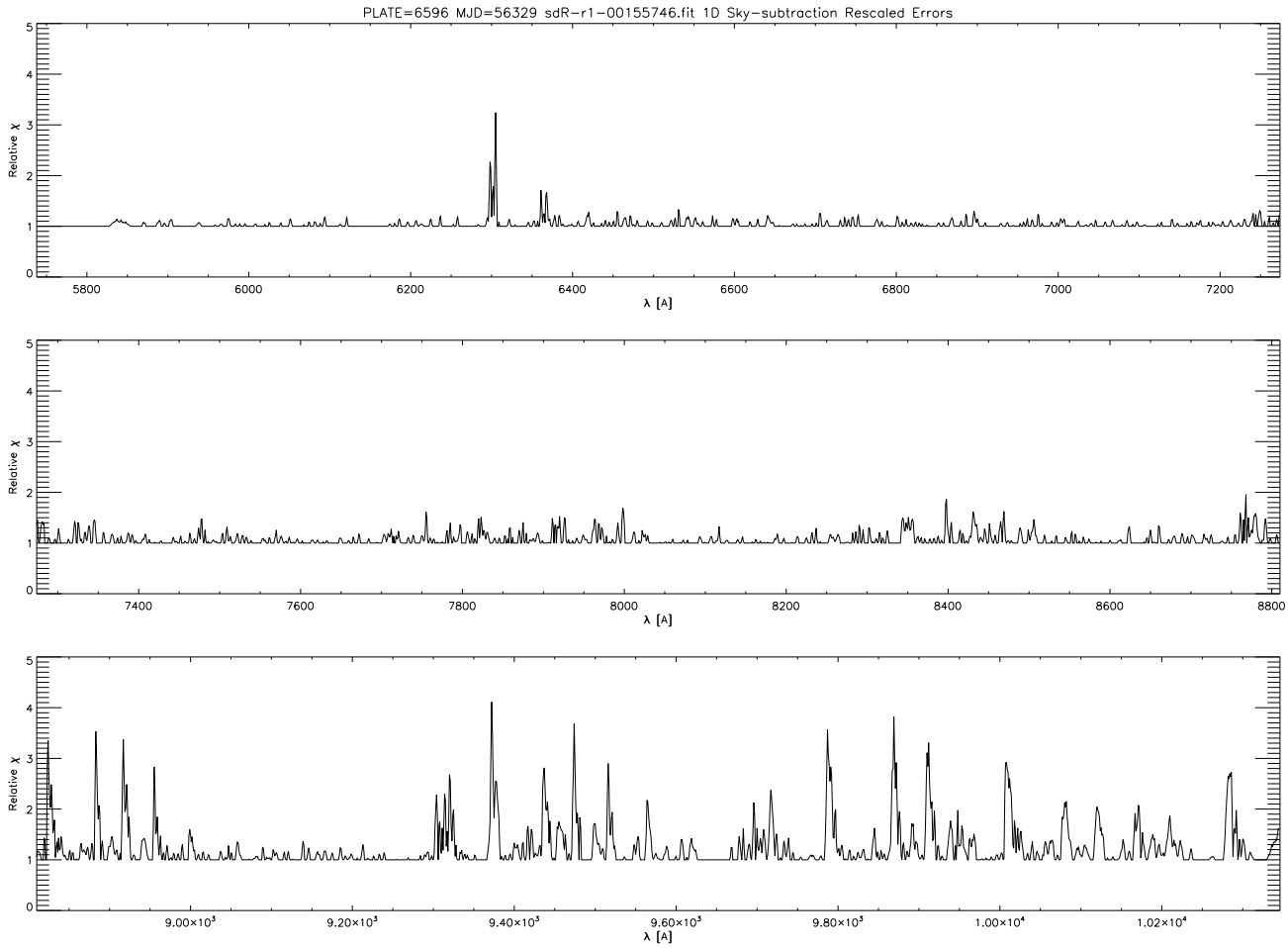

PLATE=6596 MJD=56329 Smooth superflat for sdR-r1-00155746.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

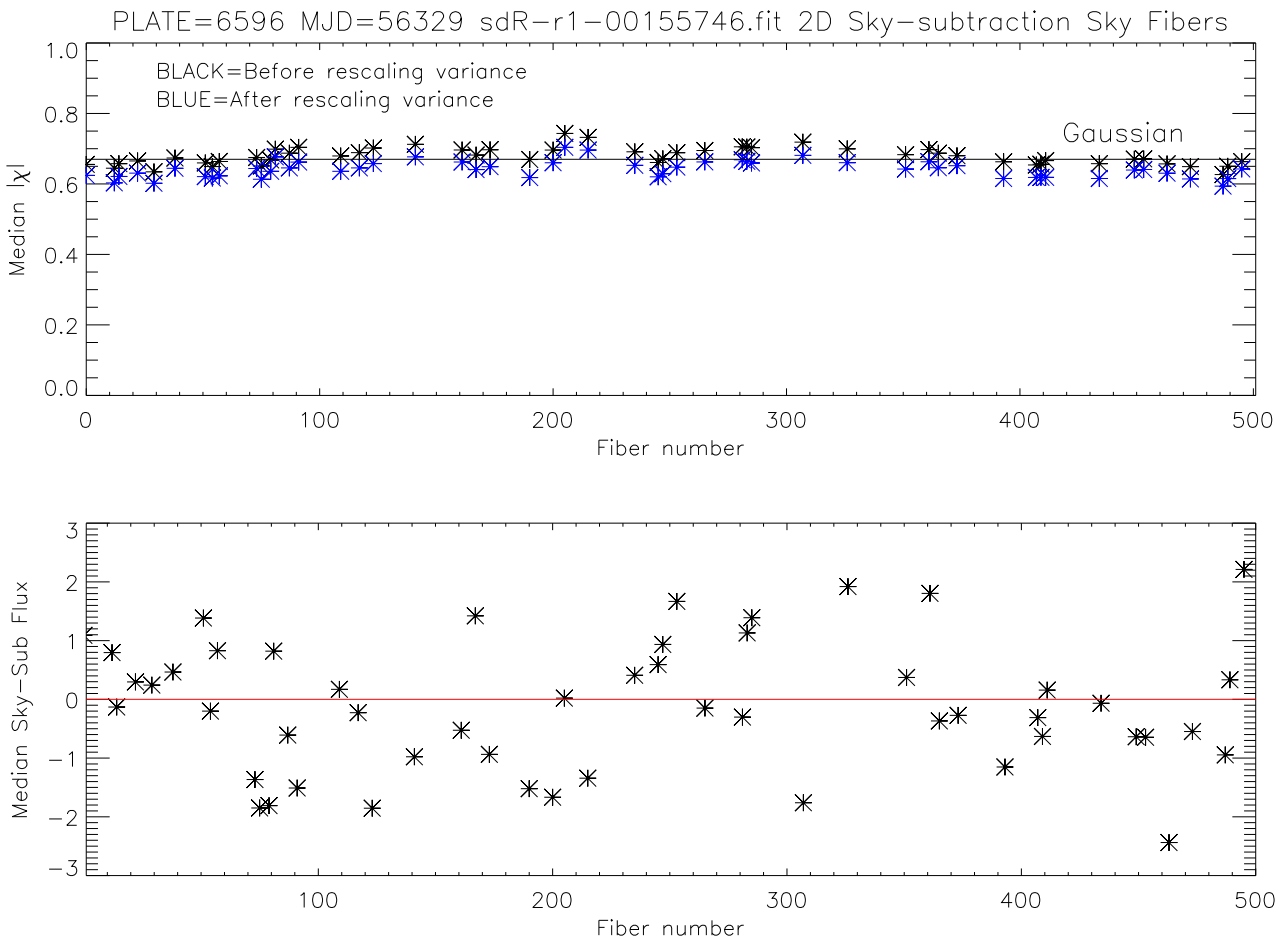

PLATE=6596 MJD=56329 sdR-r1-00155746.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

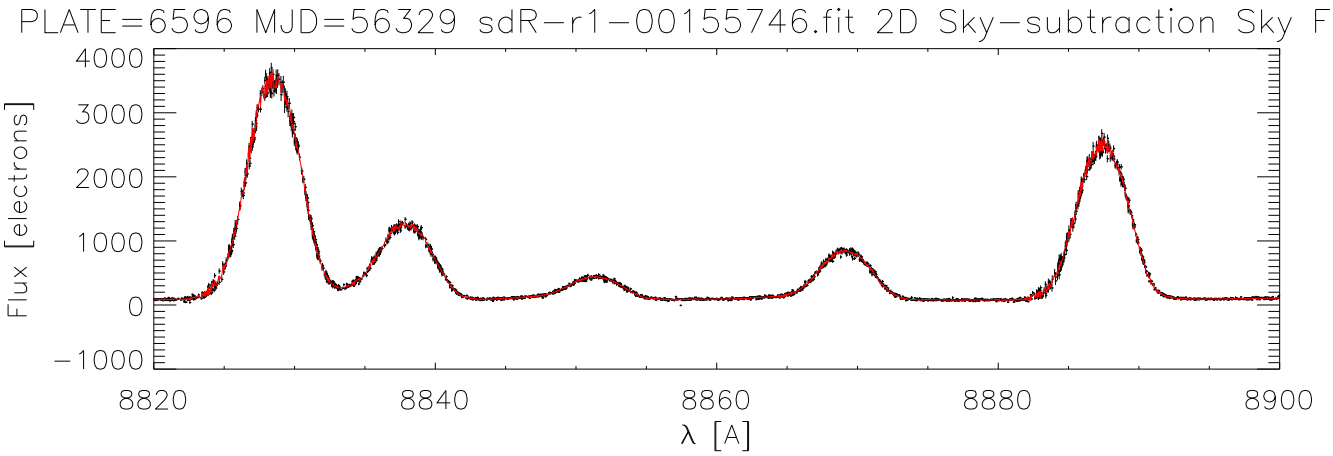

PLATE=6596 MJD=56329 sdR-r1-00155746.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

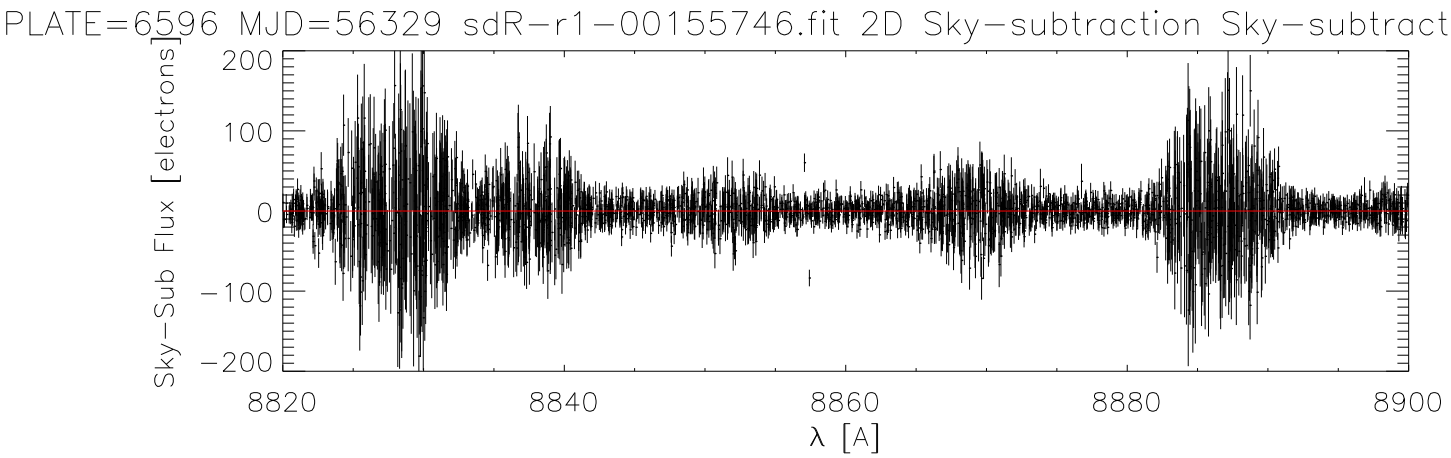

PLATE=6596 MJD=56329 sdR-r1-00155746.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 52

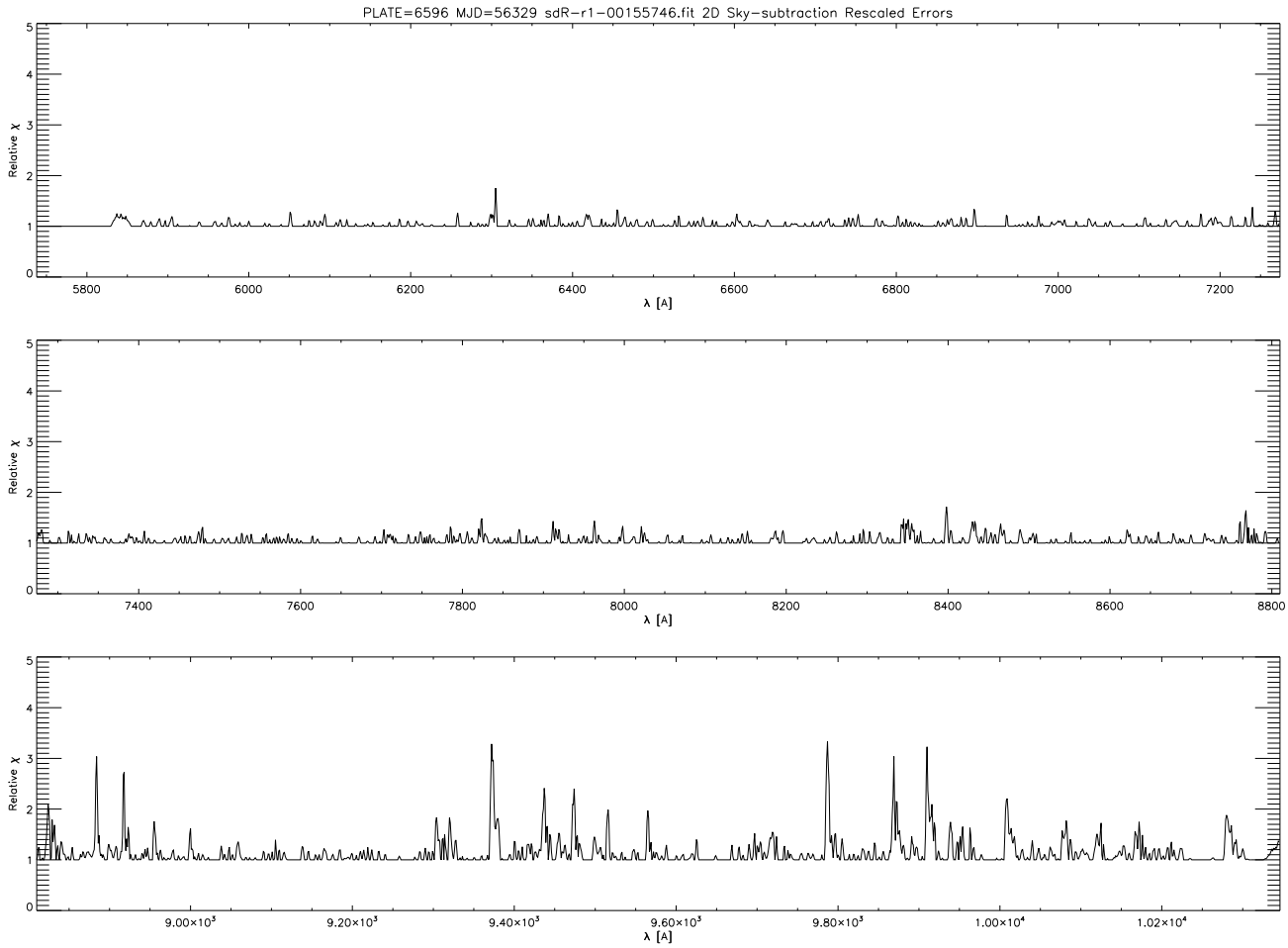


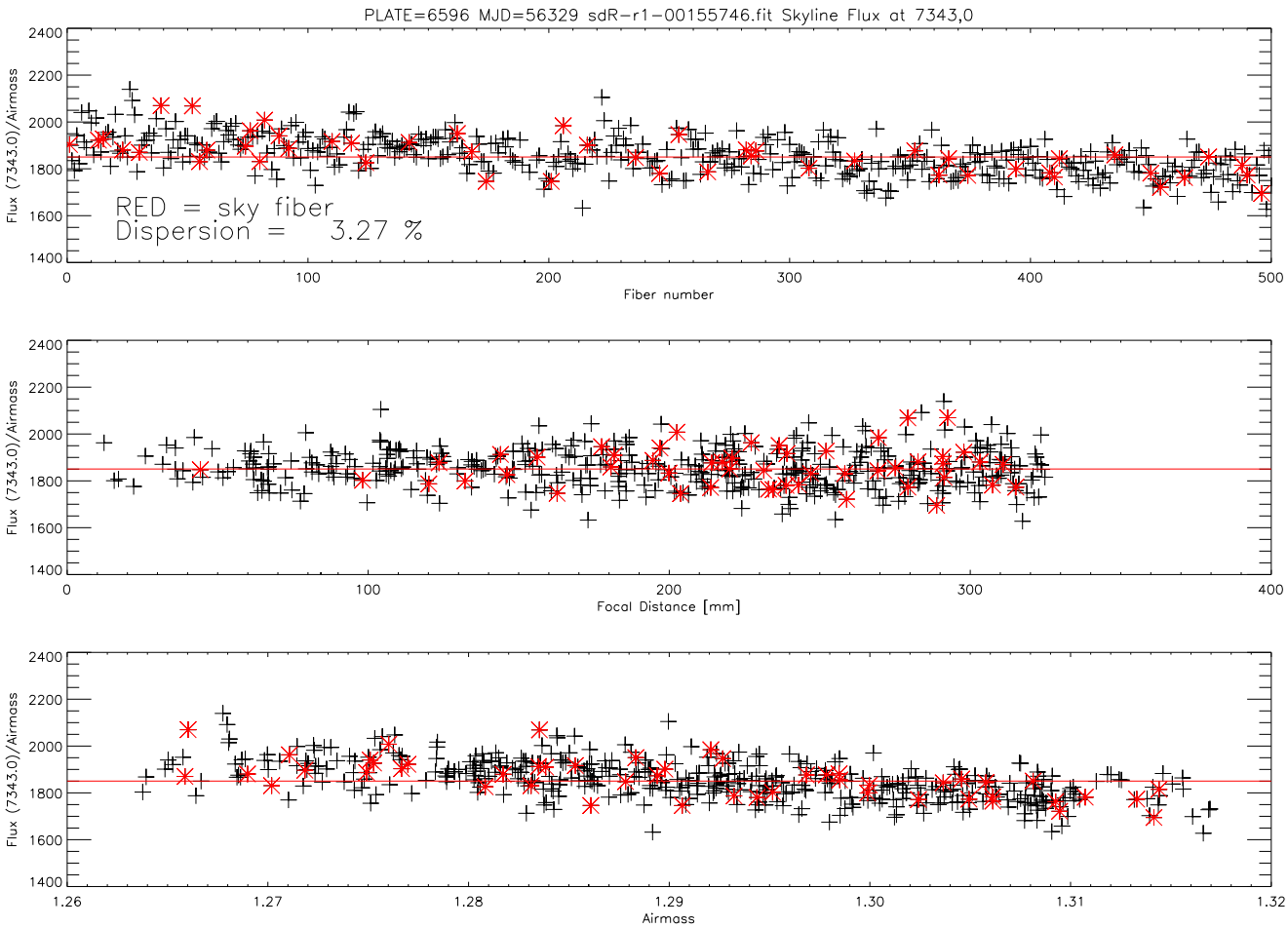

PLATE=6596 MJD=56329 sdR-r1-00155746.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

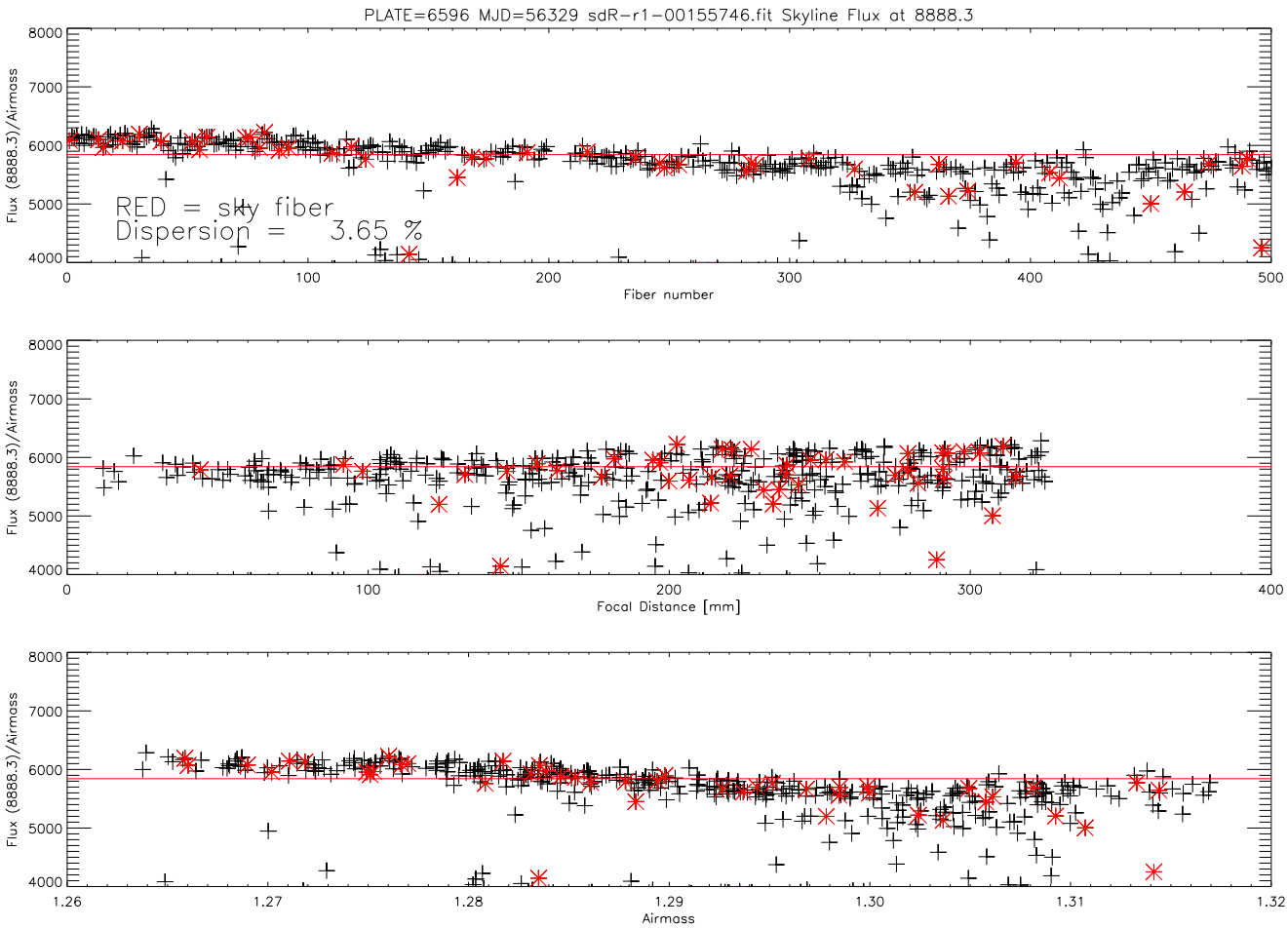

PLATE=6596 MJD=56329 sdR-r1-00155746.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
−1000
8820
8840
8860
8880
8900
λ [A]


PLATE=6596 MJD=56329 sdR-r1-00155746.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
−100
−200
8820
8840
8860
8880
8900
λ [A]

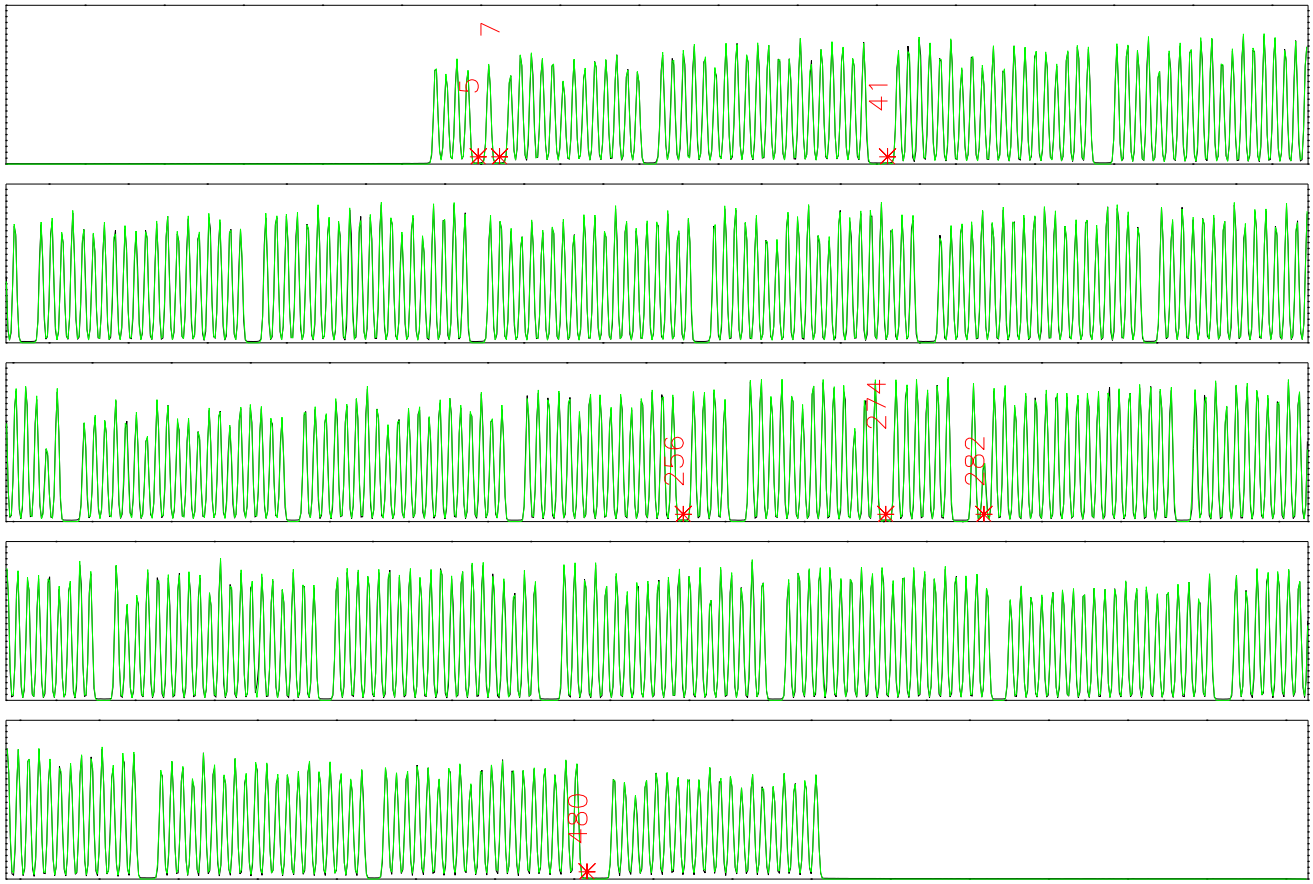
Number of sky fibers = 52

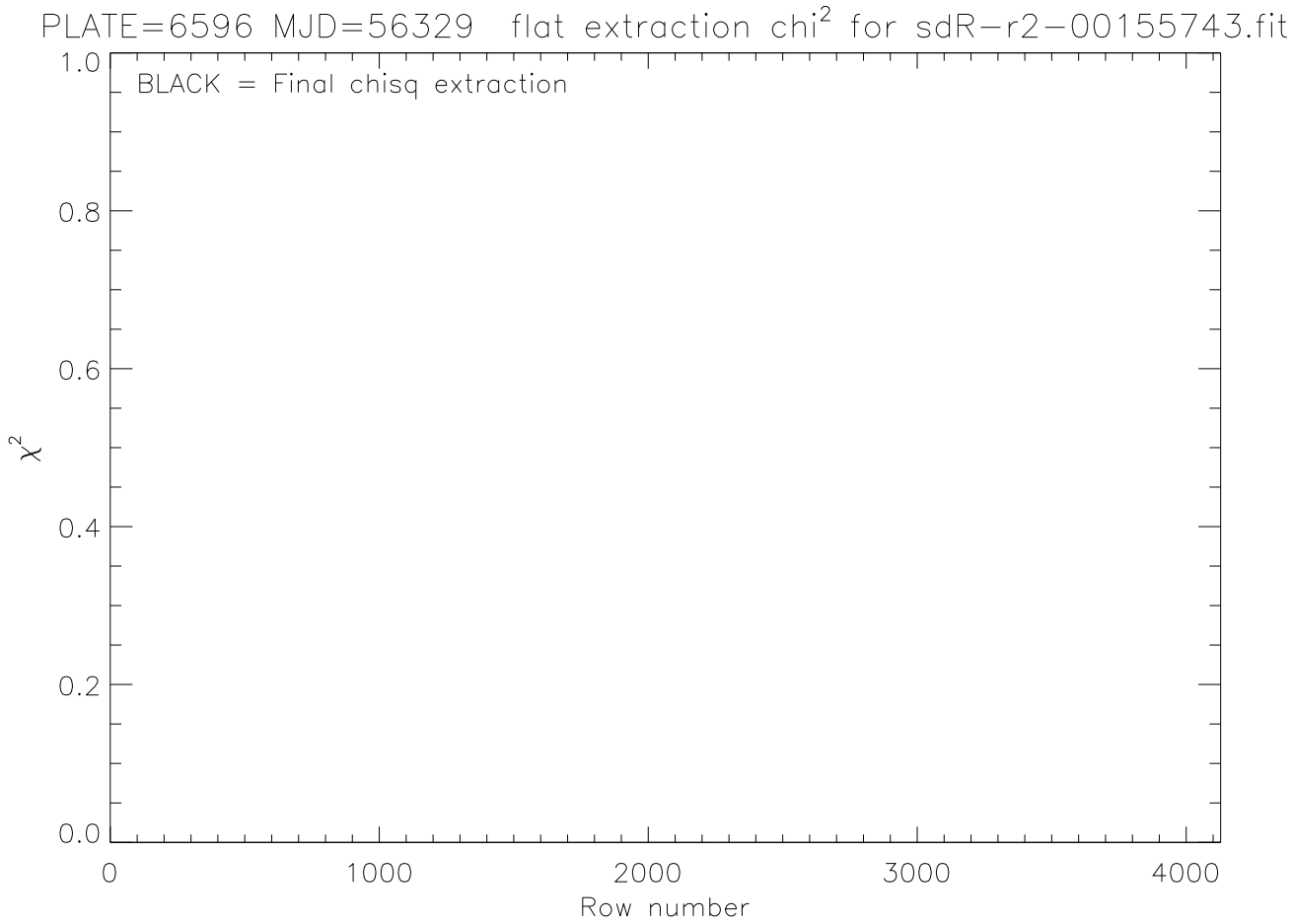


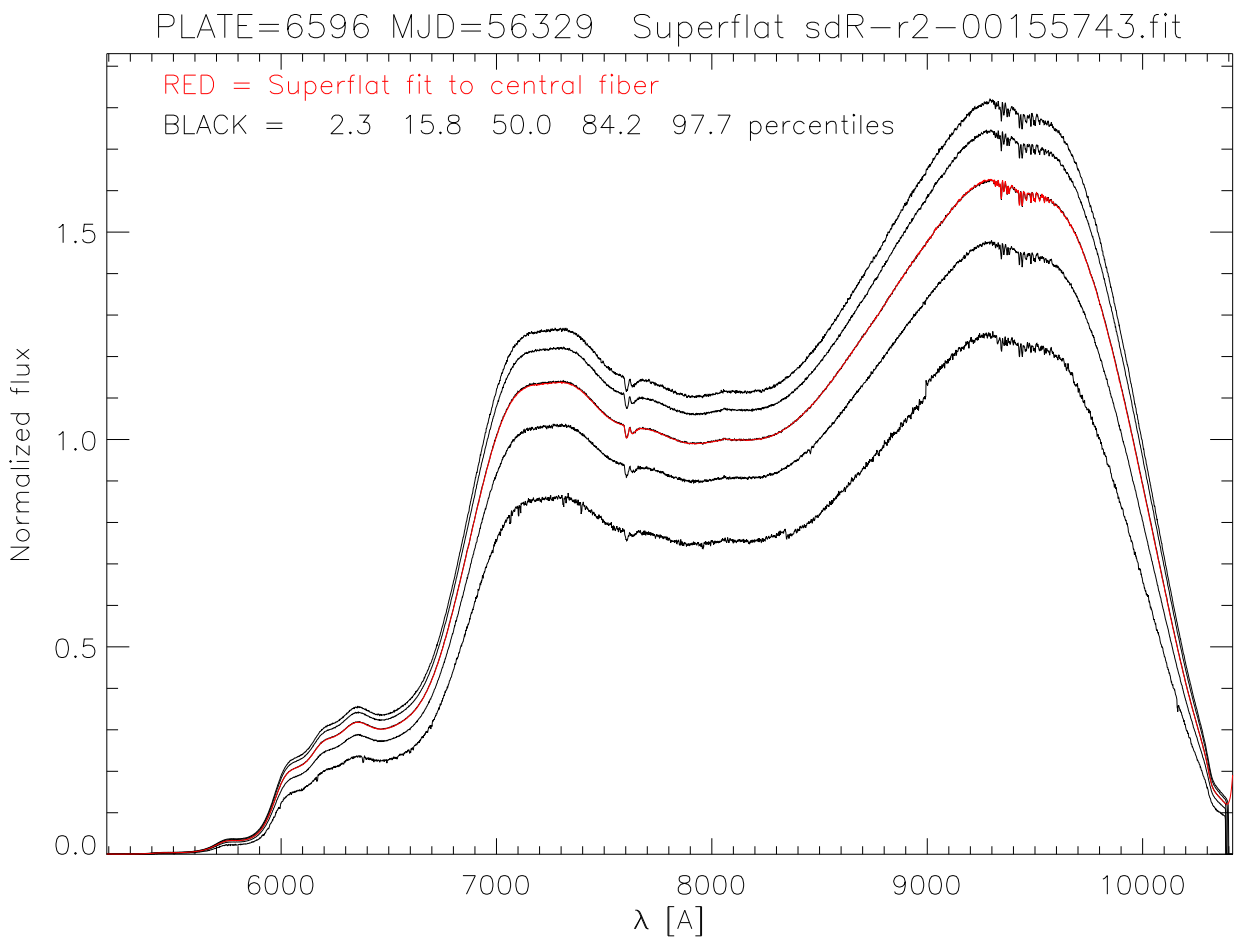

PLATE=6596 MJD=56329 sdR-r1-00155746.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.27 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

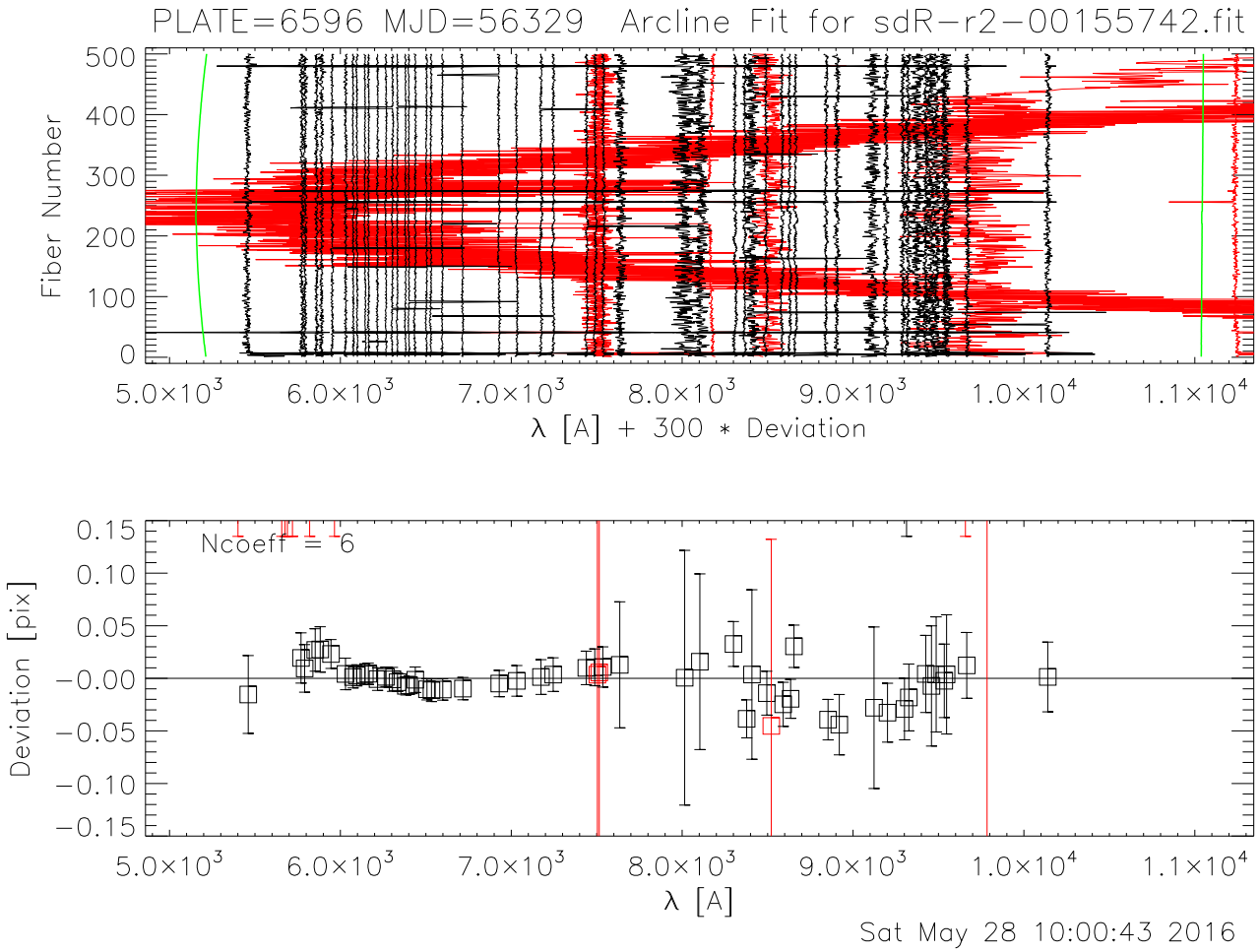

PLATE=6596 MJD=56329 sdR-r1-00155746.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.65 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

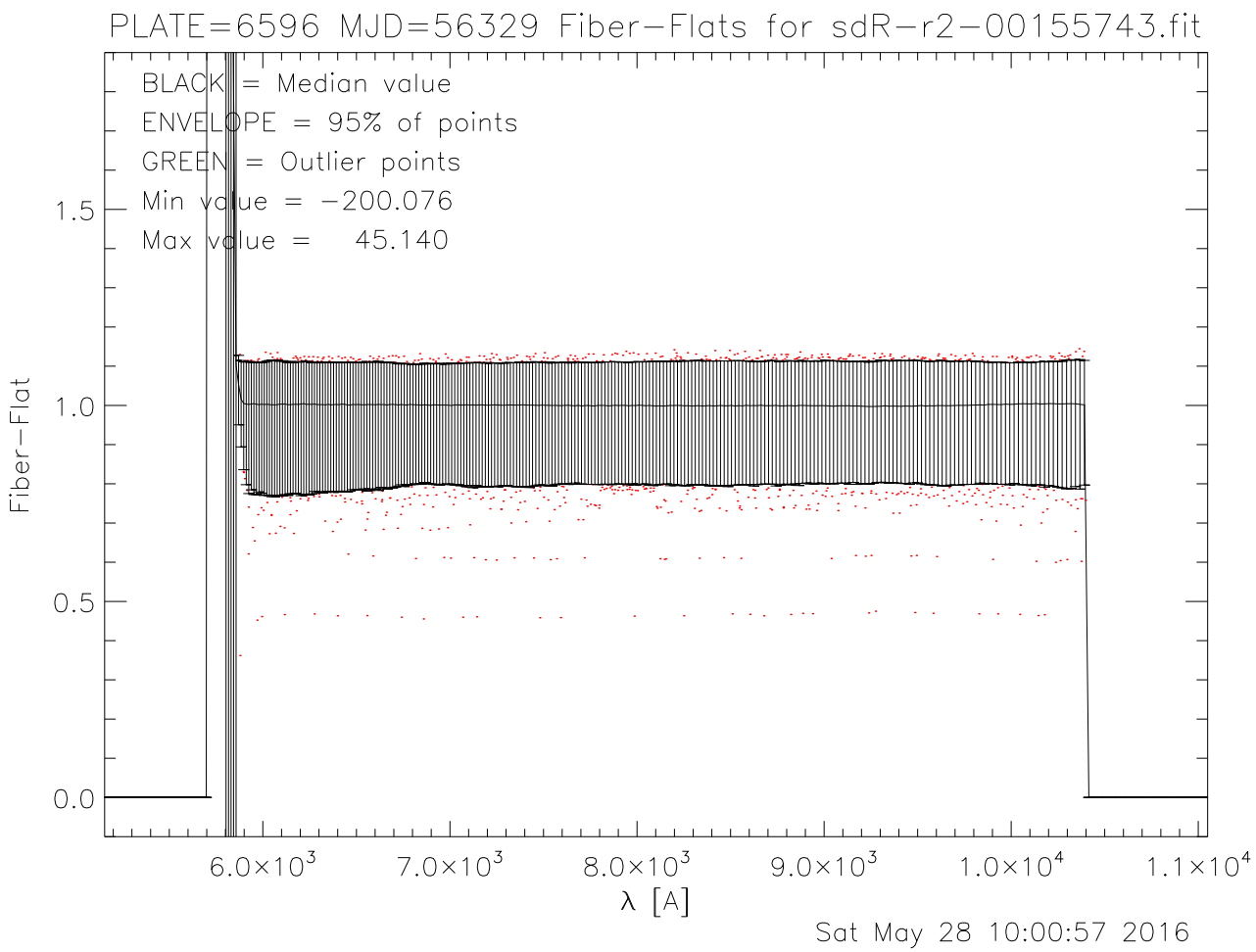
PLATE=6596 MJD=56329 Traces sdR-r2-00155743.fit

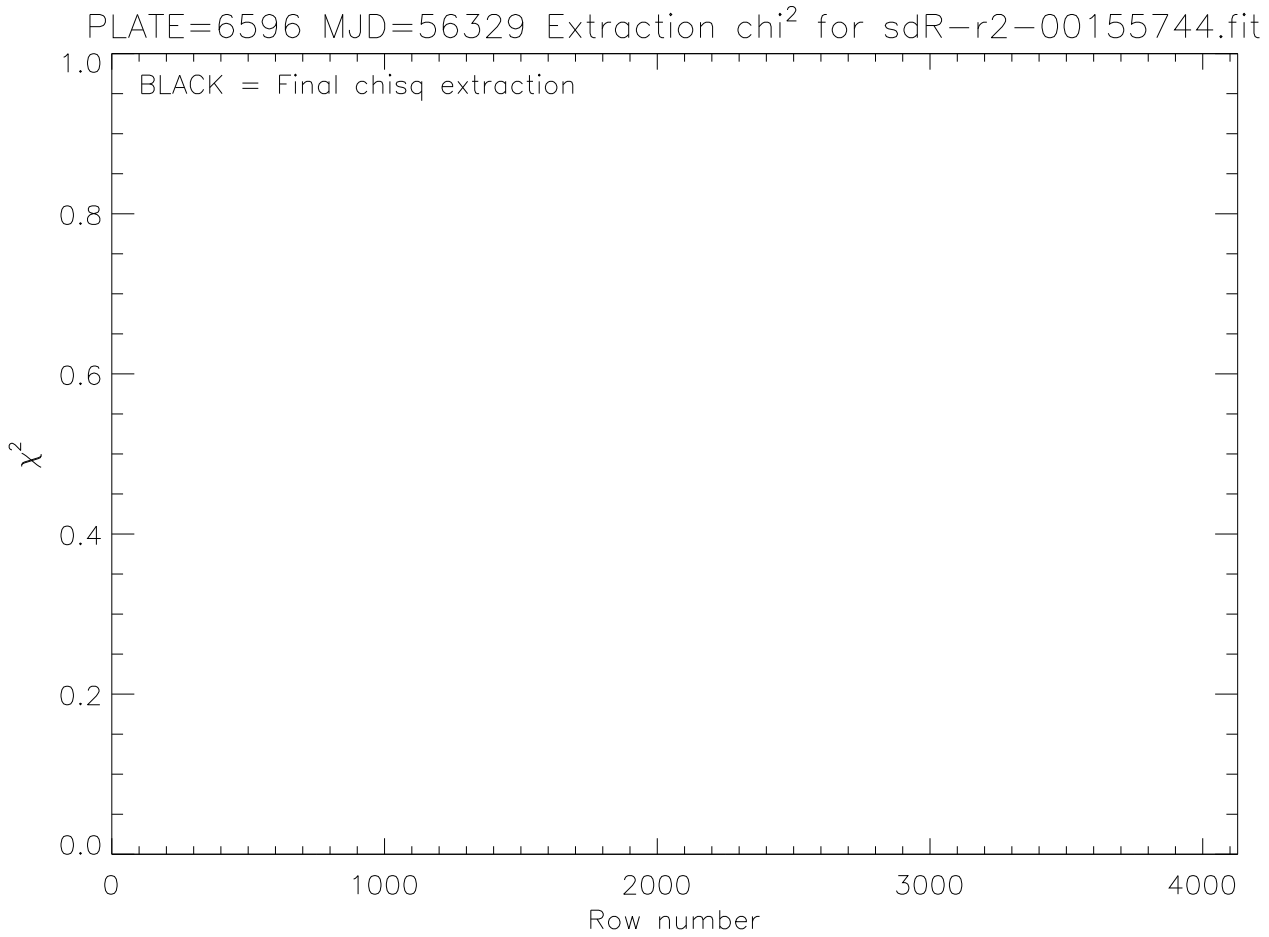


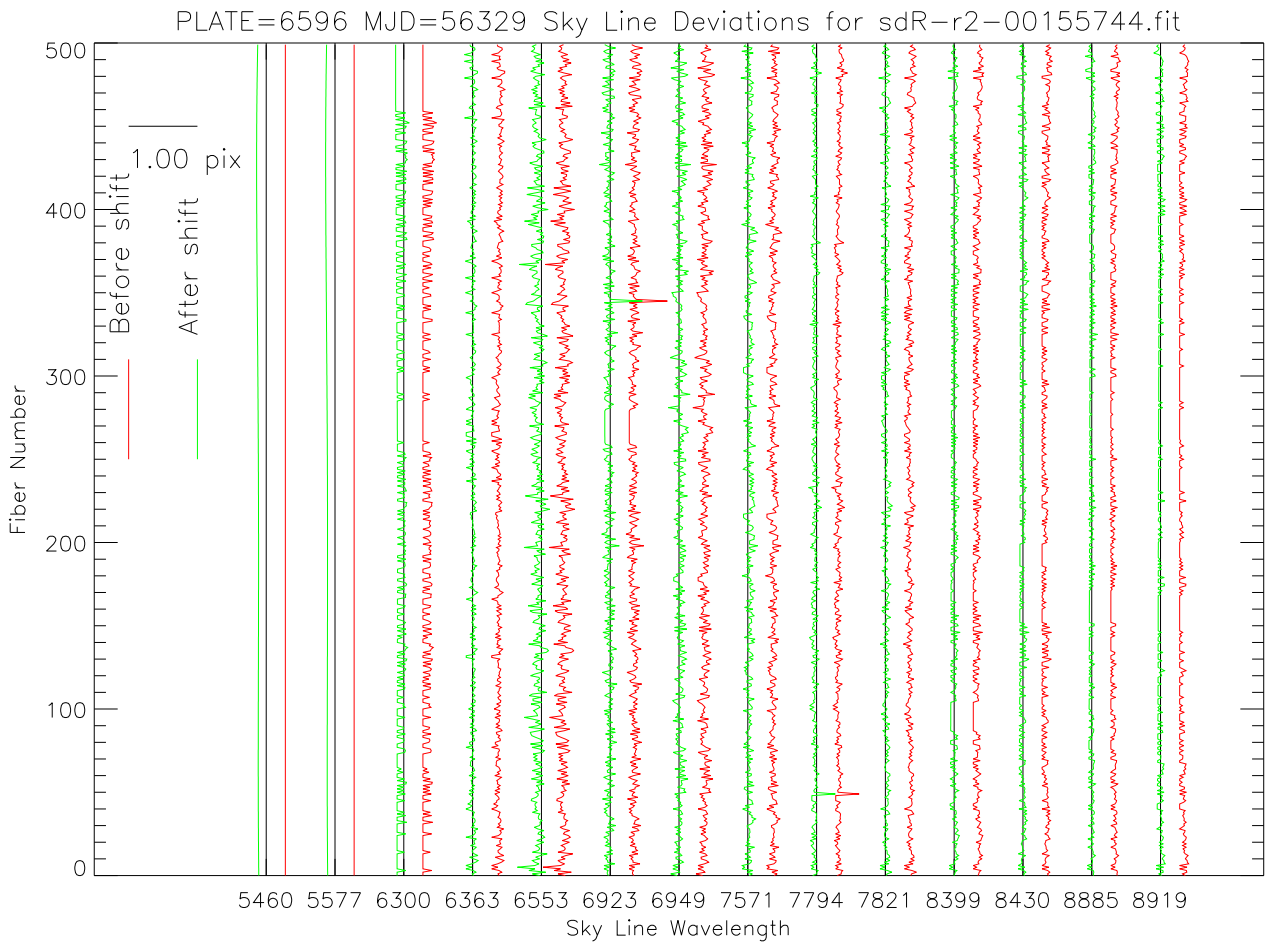

PLATE=6596 MJD=56329 flat extraction chi^2 for sdR−r2−00155743.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number

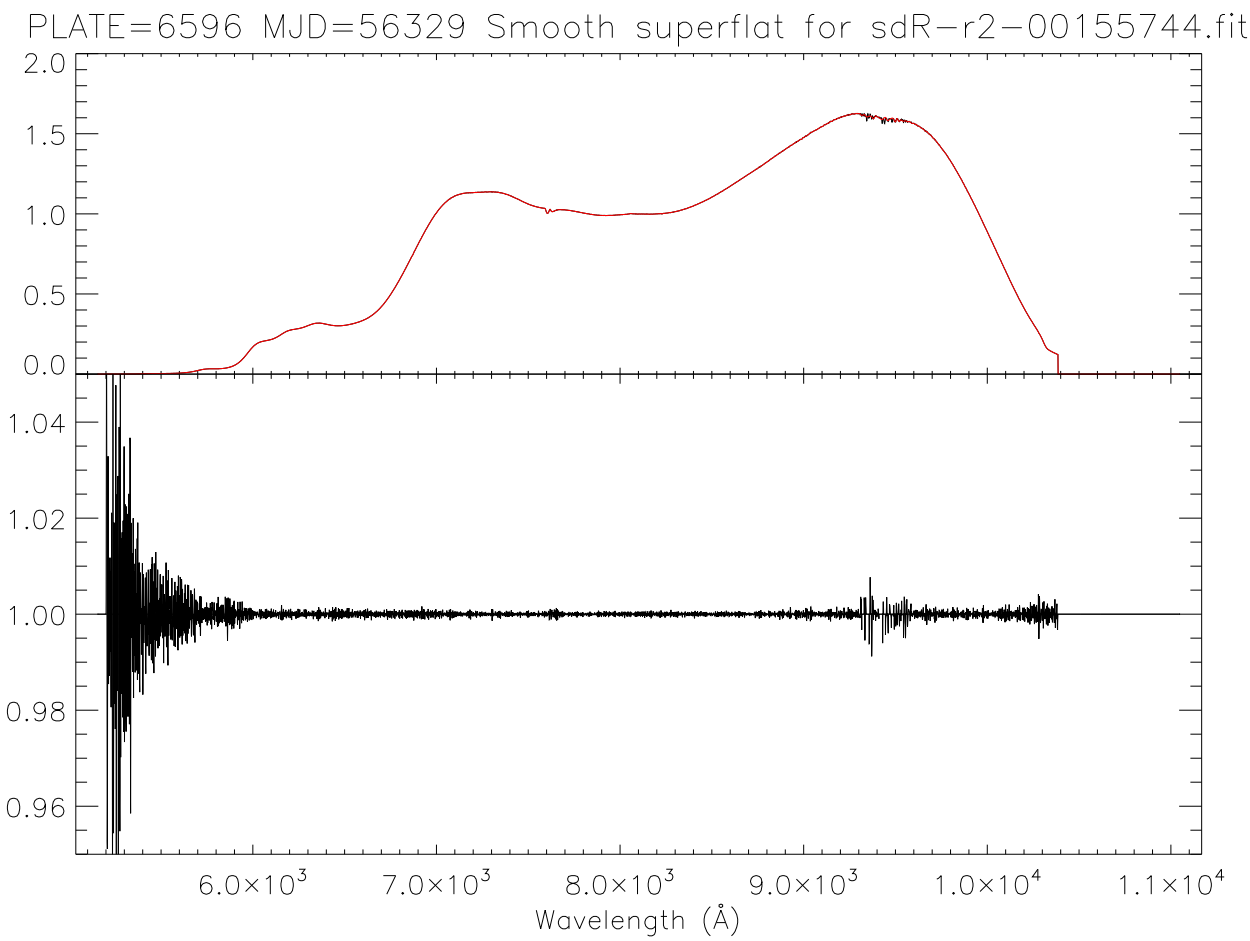

PLATE=6596 MJD=56329 Superflat sdR-r2-00155743.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
0.0
0.5
1.0
1.5
6000
7000
8000
9000
10000
λ [A]

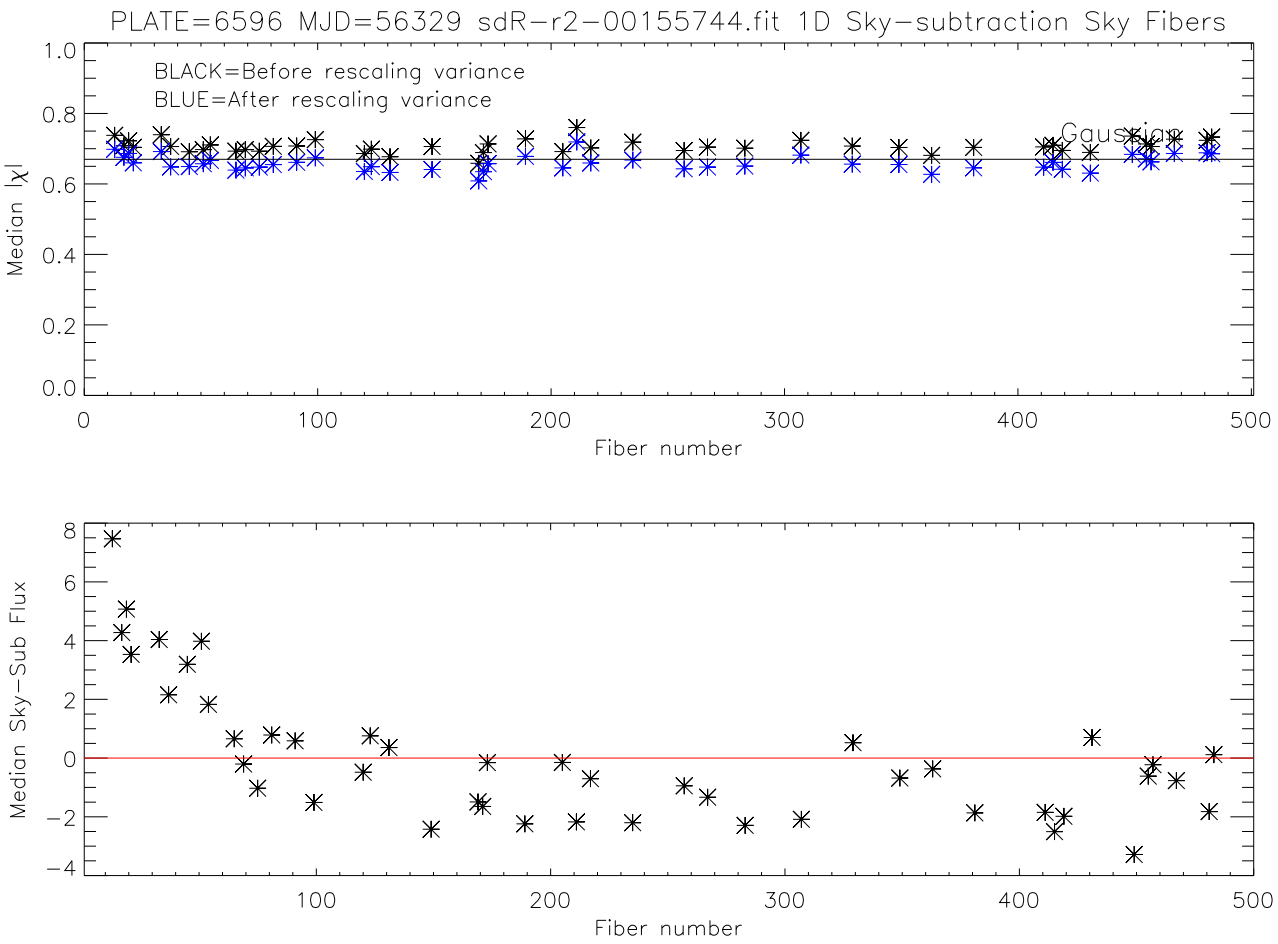

PLATE=6596 MJD=56329 Arcline Fit for sdR-r2-00155742.fit
Fiber Number
500
400
300
200
100
0
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A] + 300 * Deviation
Ncoeff = 6
Deviation [pix]
0.15
0.10
0.05
−0.00
−0.05
−0.10
−0.15
λ [A]
Sat May 28 10:00:43 2016

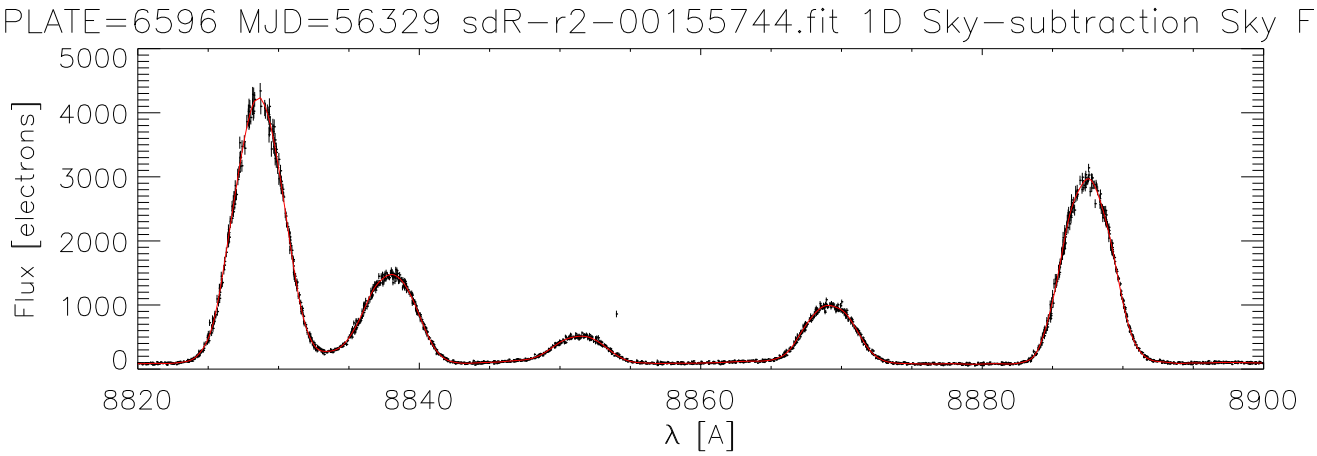

PLATE=6596 MJD=56329 Fiber−Flats for sdR−r2−00155743.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −200.076
Max value = 45.140
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Sat May 28 10:00:57 2016

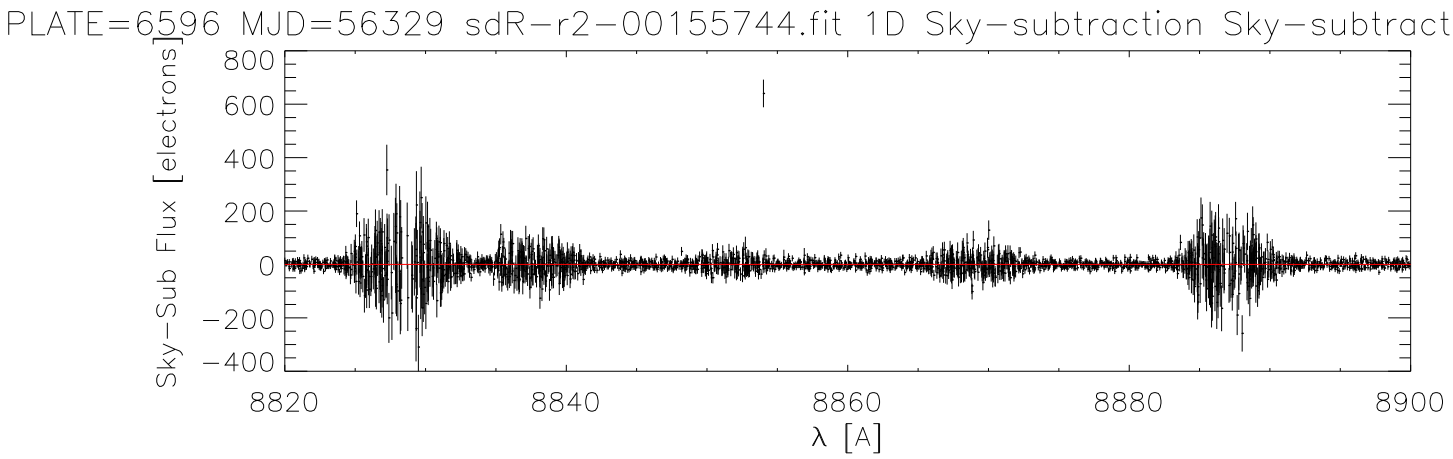

PLATE=6596 MJD=56329 Extraction chi^2 for sdR−r2−00155744.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=6596 MJD=56329 Sky Line Deviations for sdR-r2-00155744.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

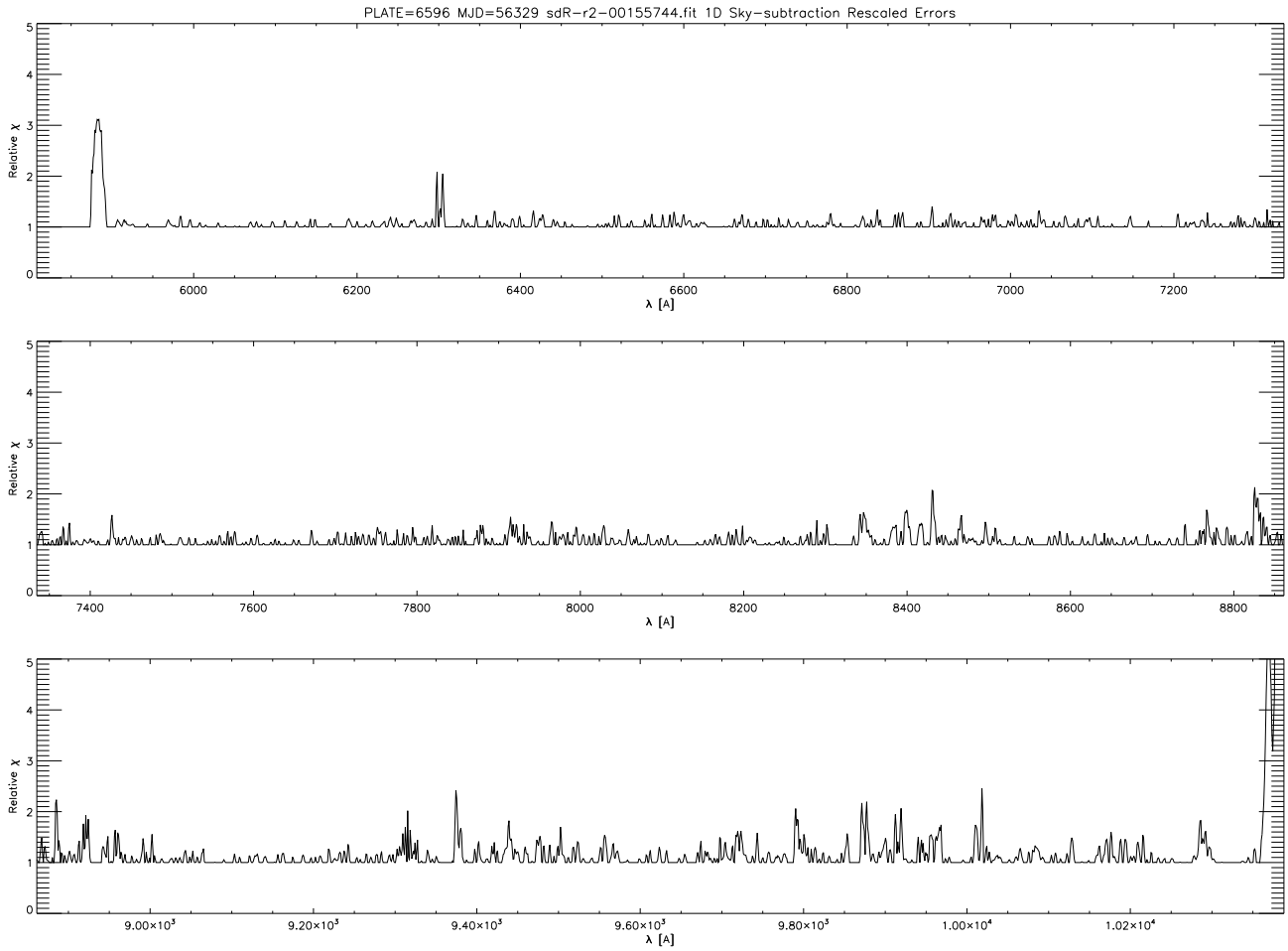

PLATE=6596 MJD=56329 Smooth superflat for sdR-r2-00155744.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

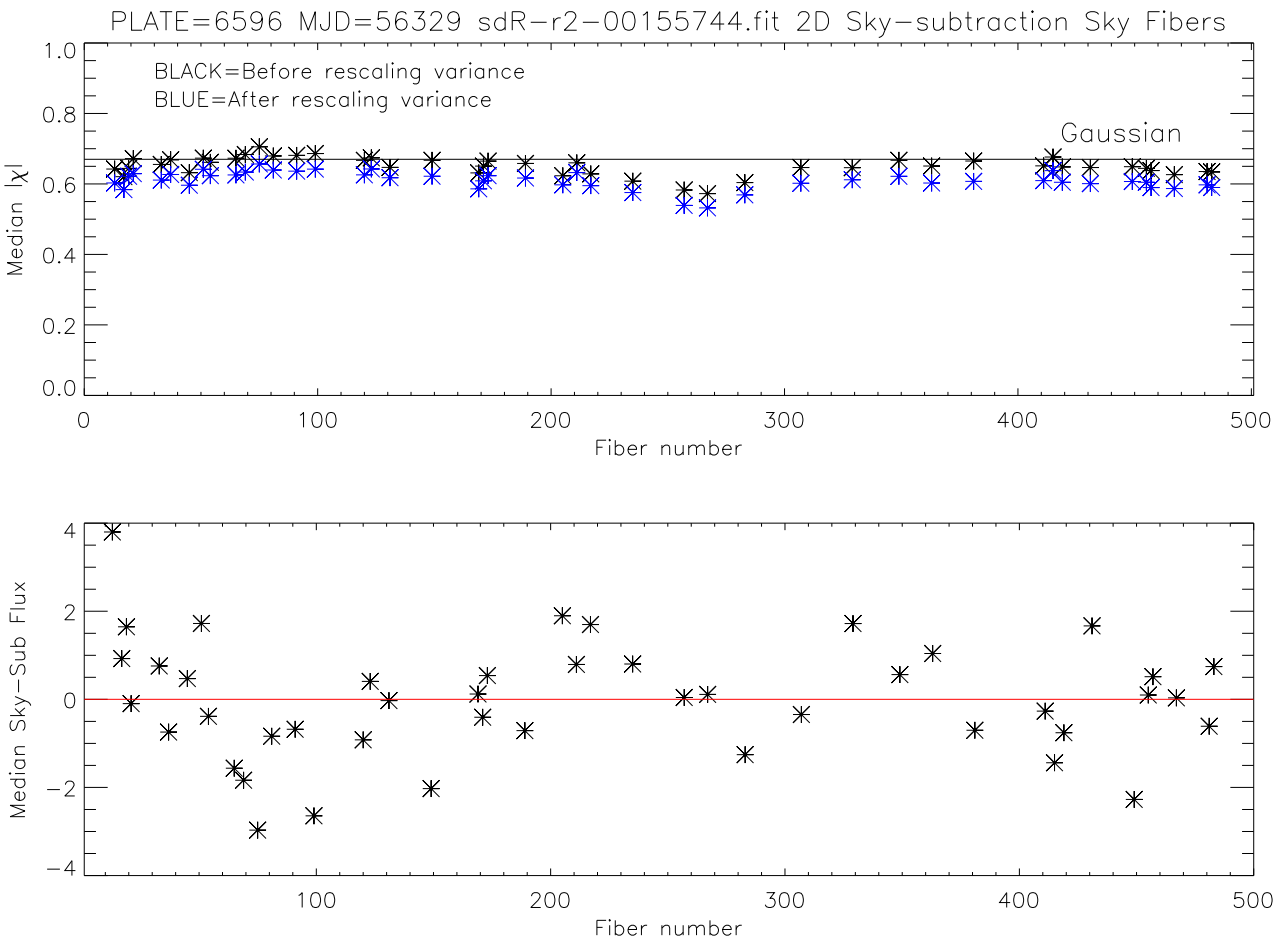

PLATE=6596 MJD=56329 sdR-r2-00155744.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

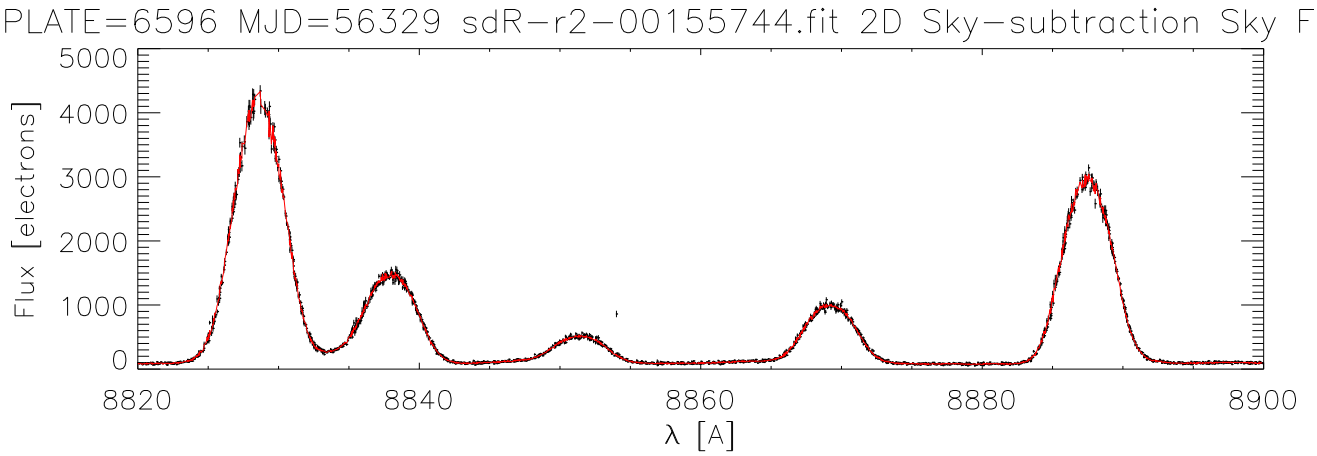

PLATE=6596 MJD=56329 sdR-r2-00155744.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

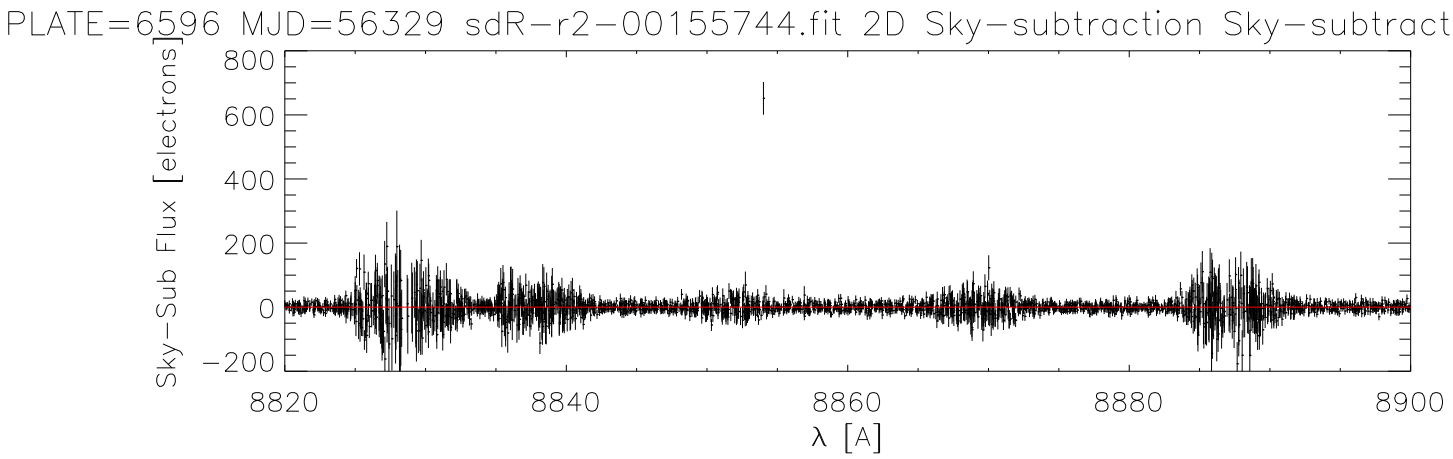

PLATE=6596 MJD=56329 sdR-r2-00155744.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 45

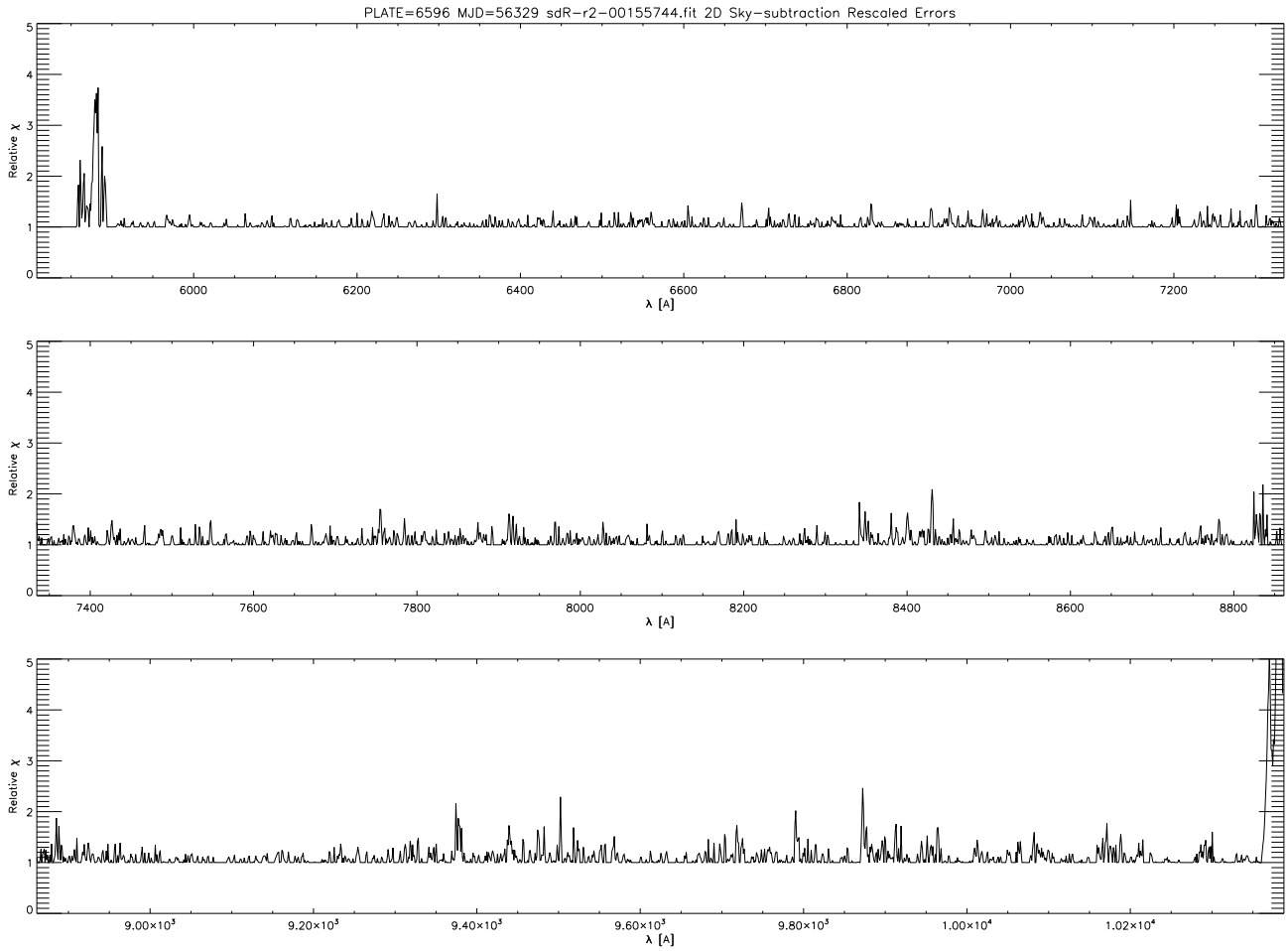


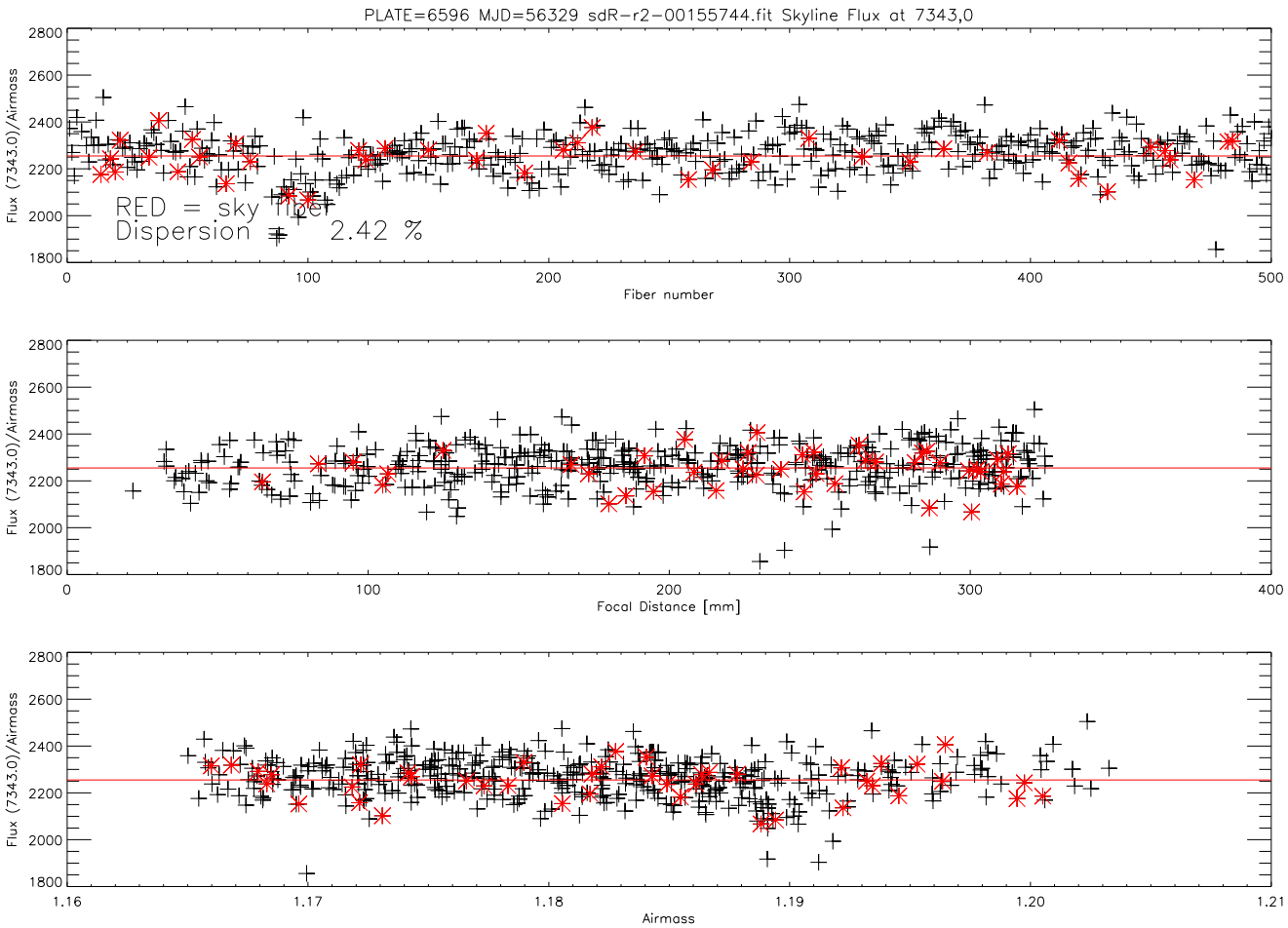

PLATE=6596 MJD=56329 sdR-r2-00155744.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

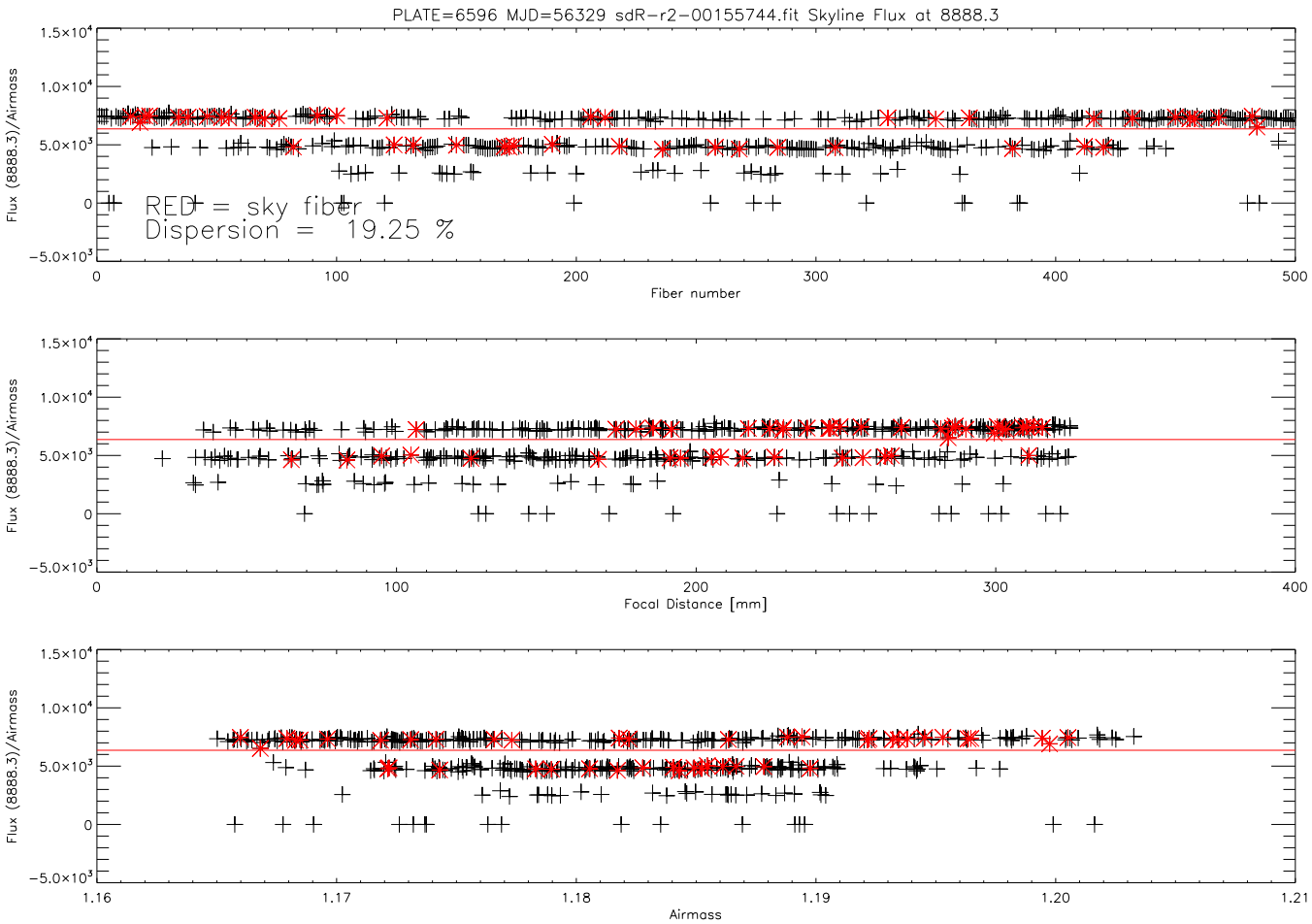

PLATE=6596 MJD=56329 sdR-r2-00155744.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

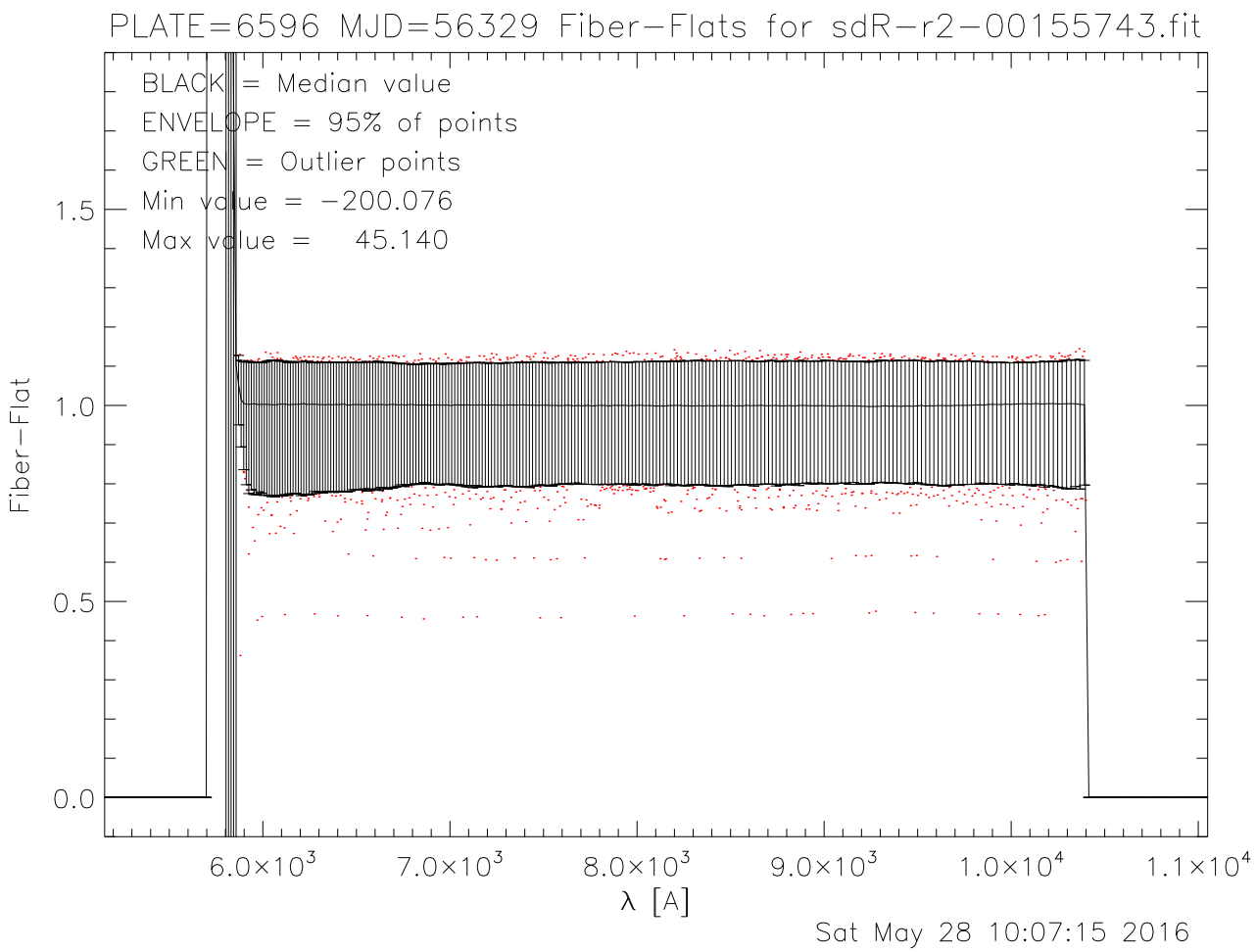

PLATE=6596 MJD=56329 sdR-r2-00155744.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

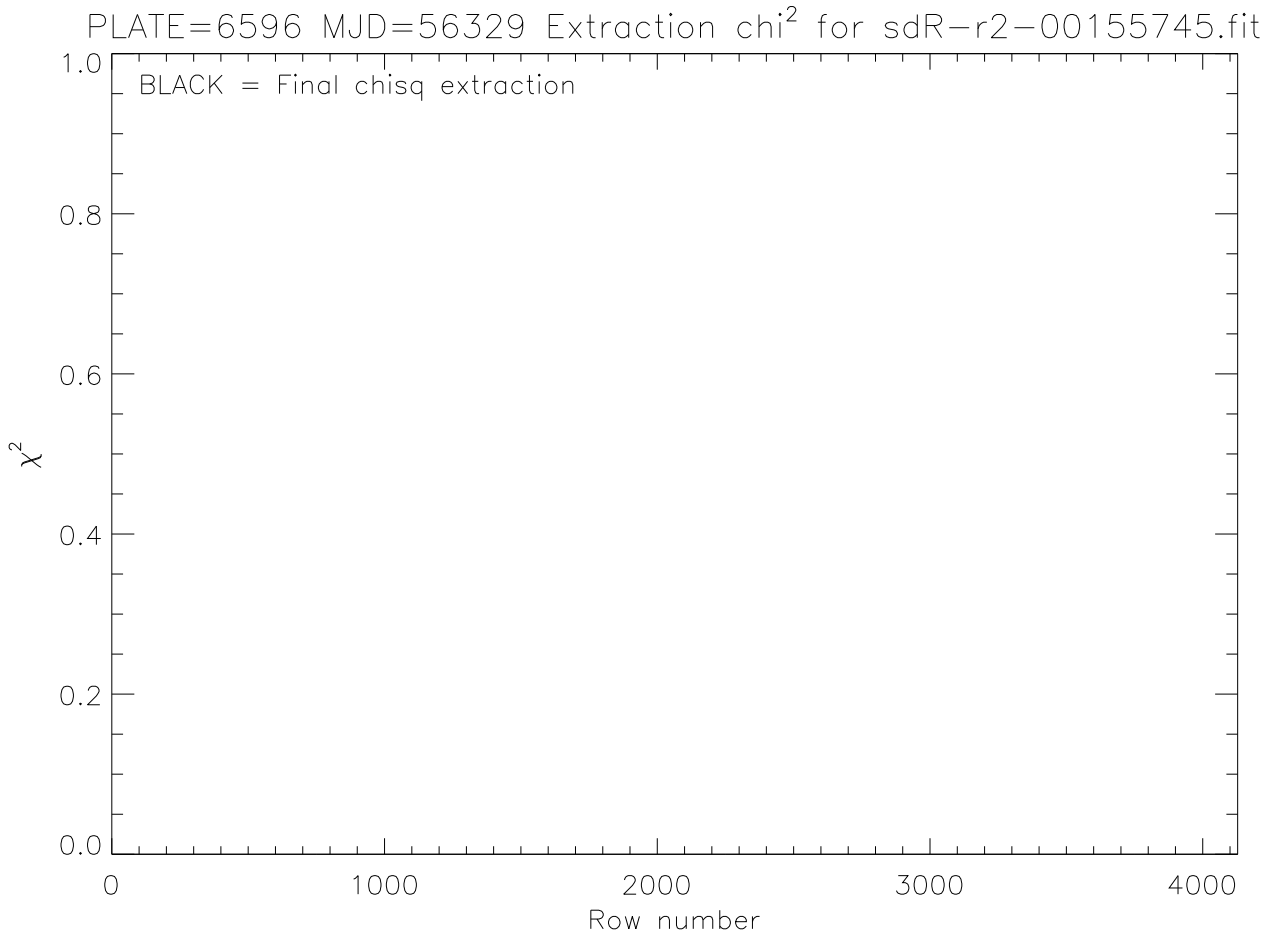
Number of sky fibers = 45

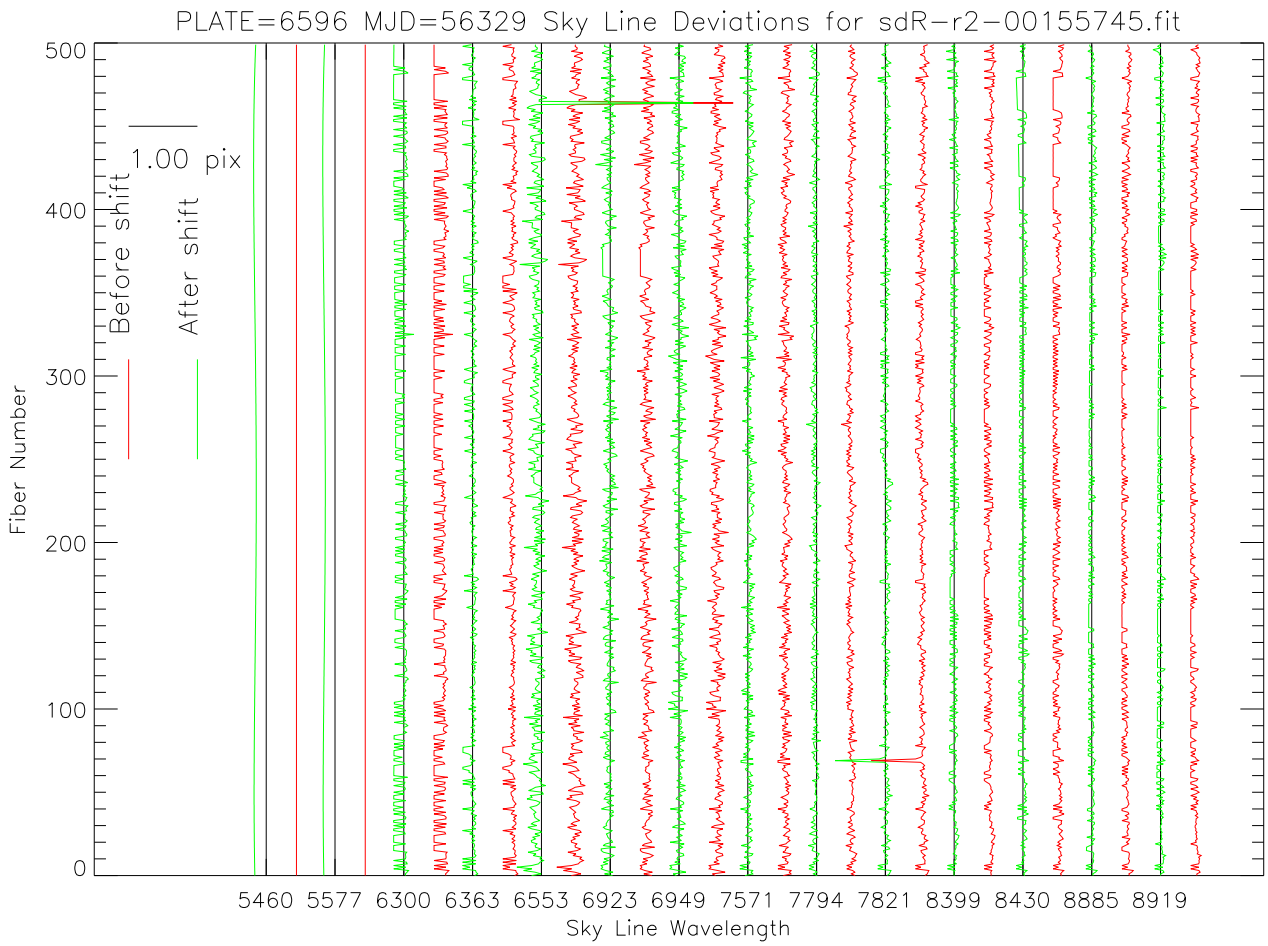


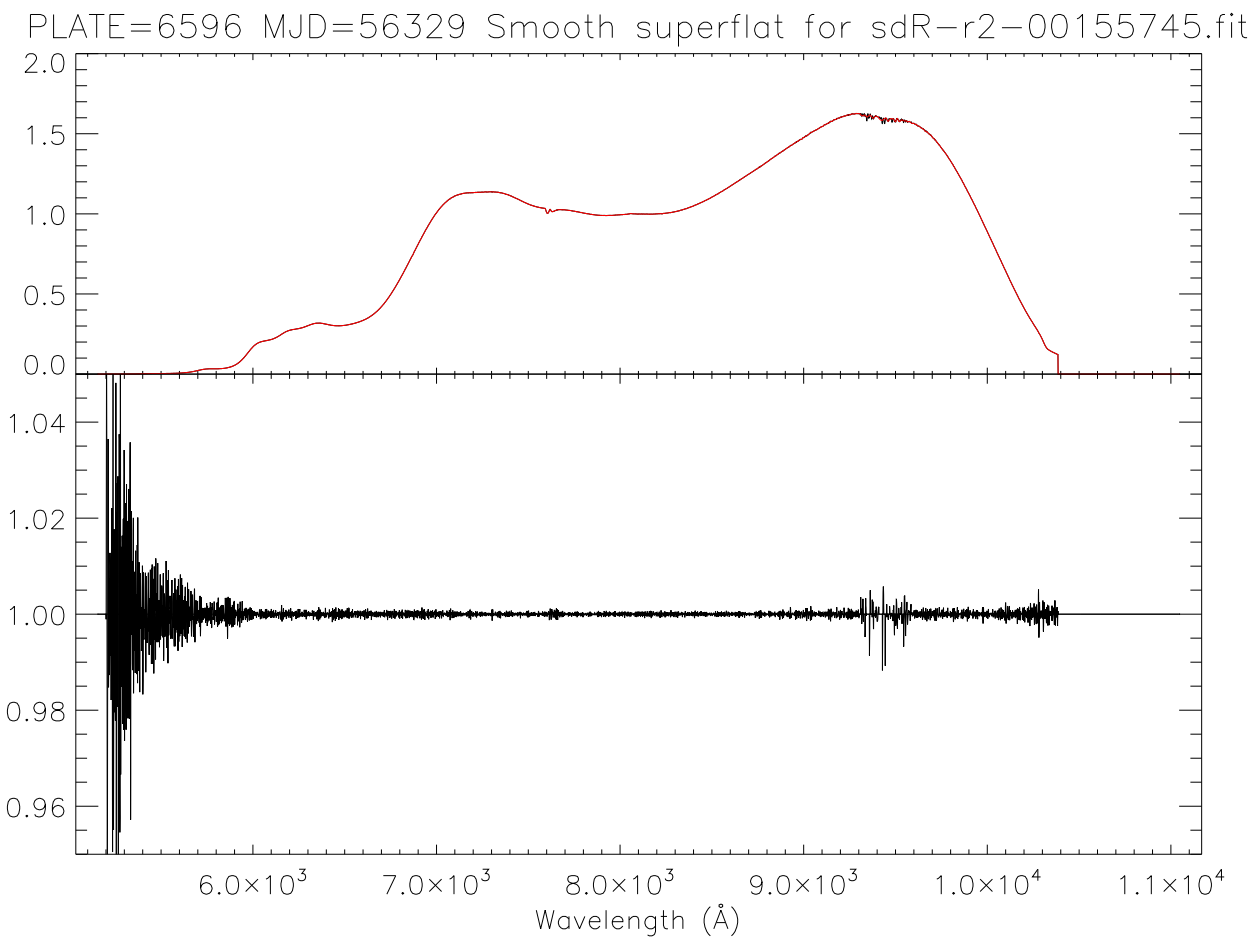

PLATE=6596 MJD=56329 sdR-r2-00155744.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.42 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

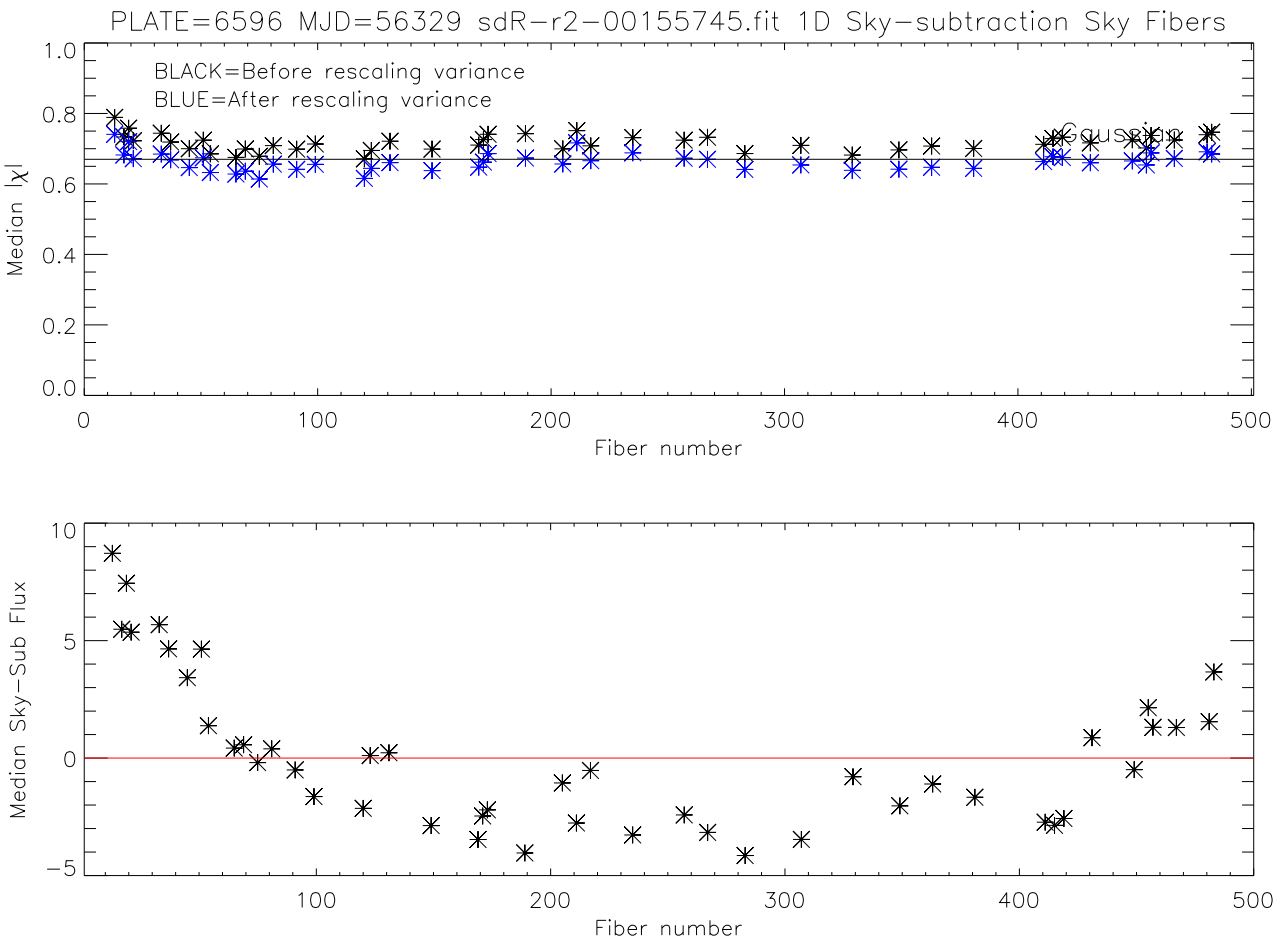

PLATE=6596 MJD=56329 sdR-r2-00155744.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
1.5×10⁴
1.0×10⁴
5.0×10³
0
−5.0×10³
RED = sky fiber
Dispersion = 19.25 %
0
100
200
300
400
500
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
1.16
1.17
1.18
1.19
1.20
1.21
Airmass

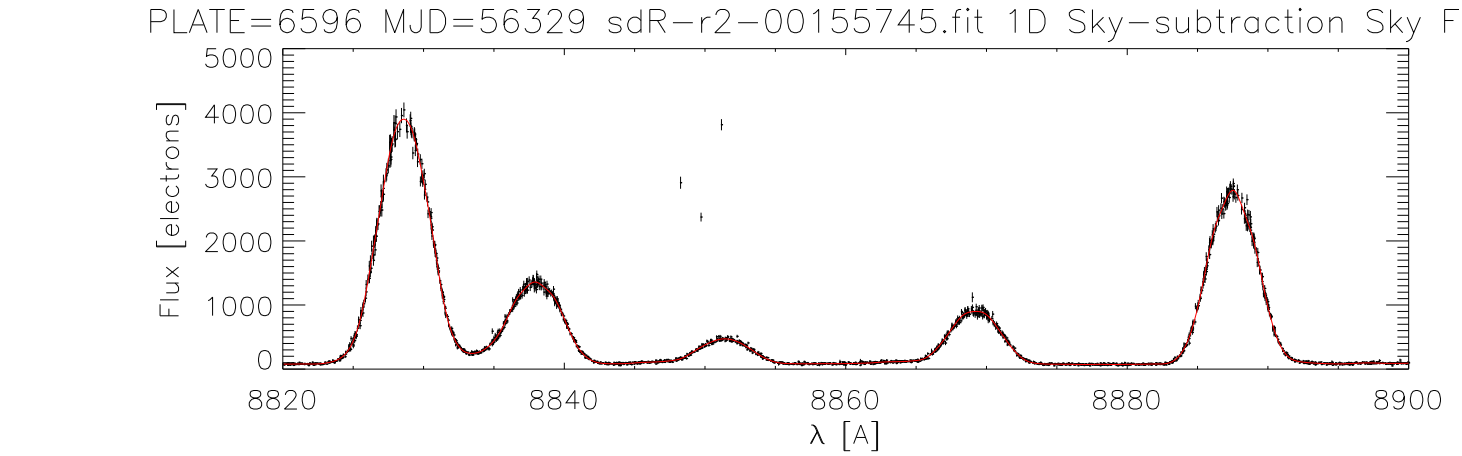

PLATE=6596 MJD=56329 Fiber−Flats for sdR−r2−00155743.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −200.076
Max value = 45.140
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Sat May 28 10:07:15 2016

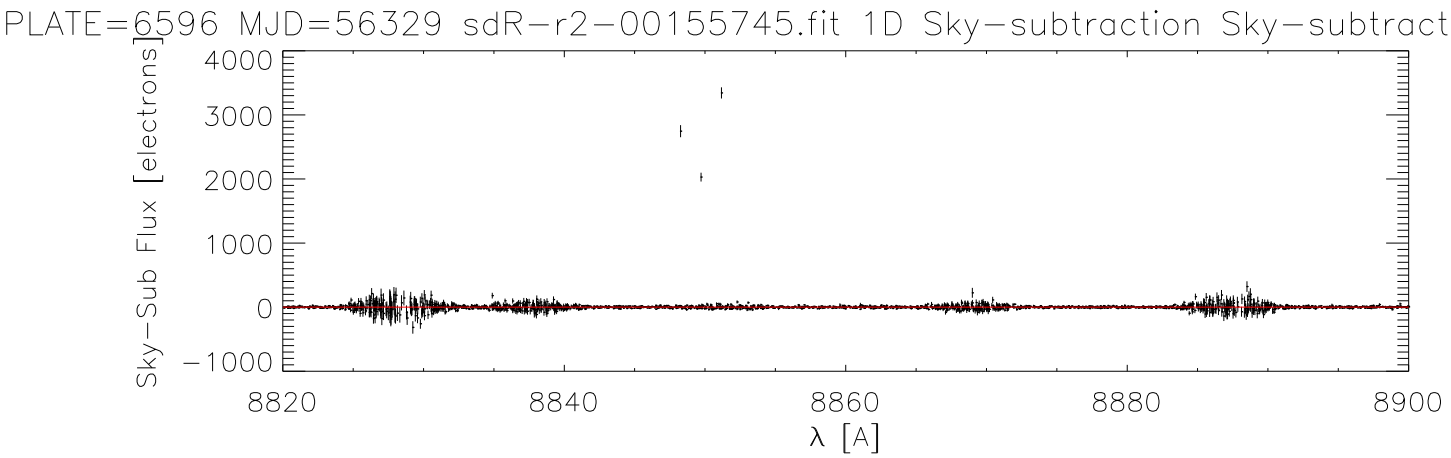

PLATE=6596 MJD=56329 Extraction chi^2 for sdR−r2−00155745.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=6596 MJD=56329 Sky Line Deviations for sdR-r2-00155745.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

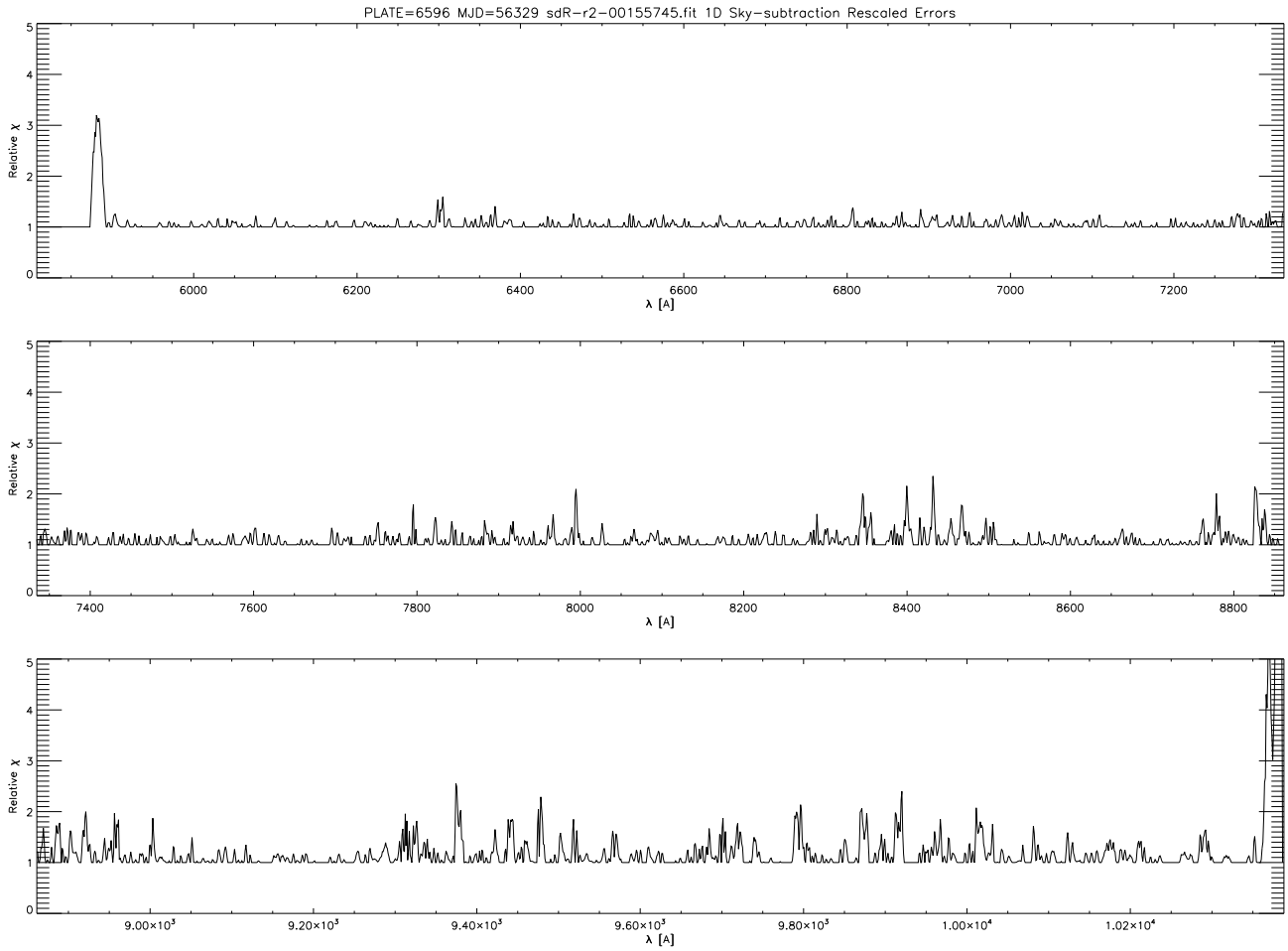

PLATE=6596 MJD=56329 Smooth superflat for sdR-r2-00155745.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

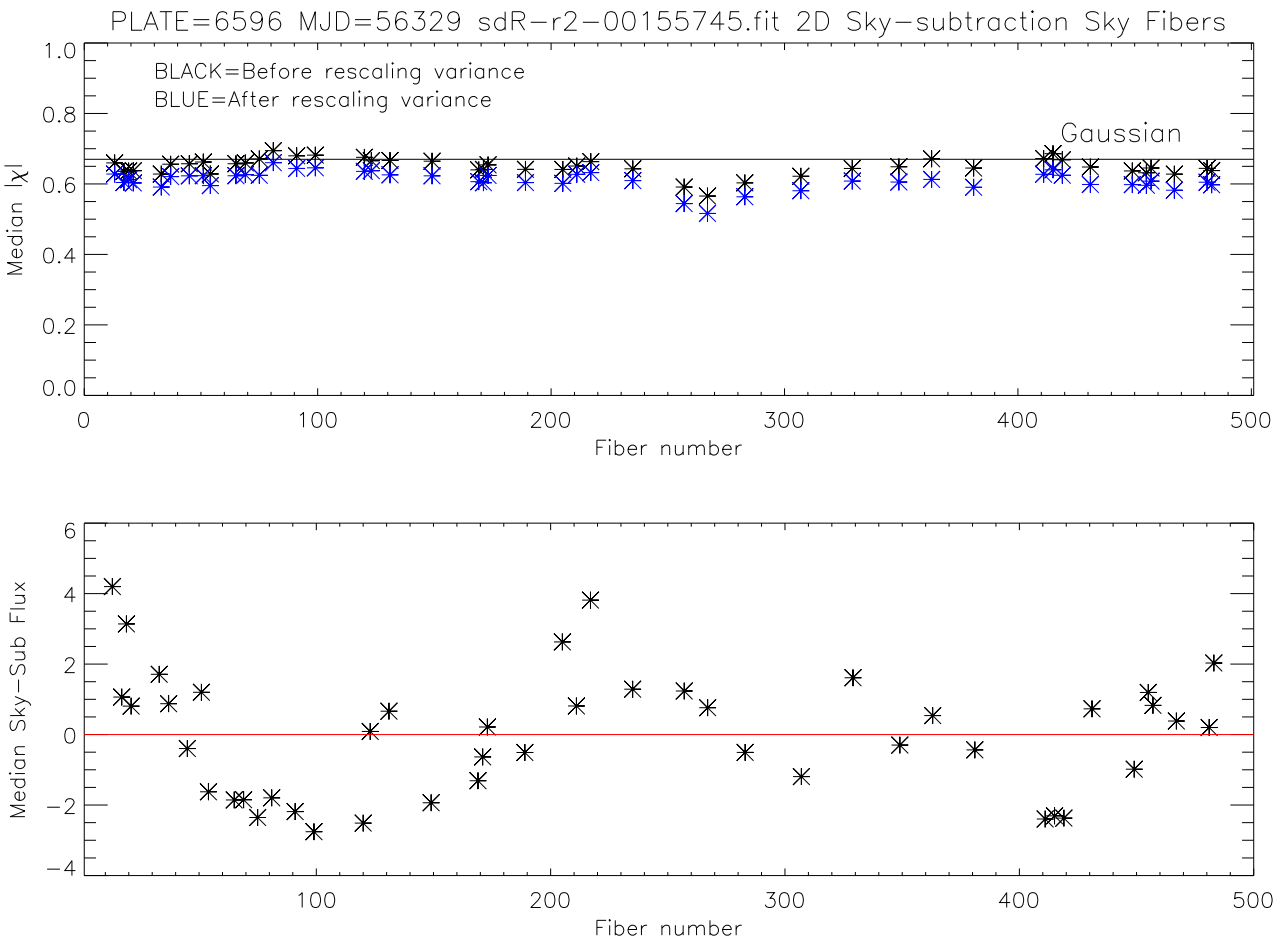

PLATE=6596 MJD=56329 sdR-r2-00155745.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

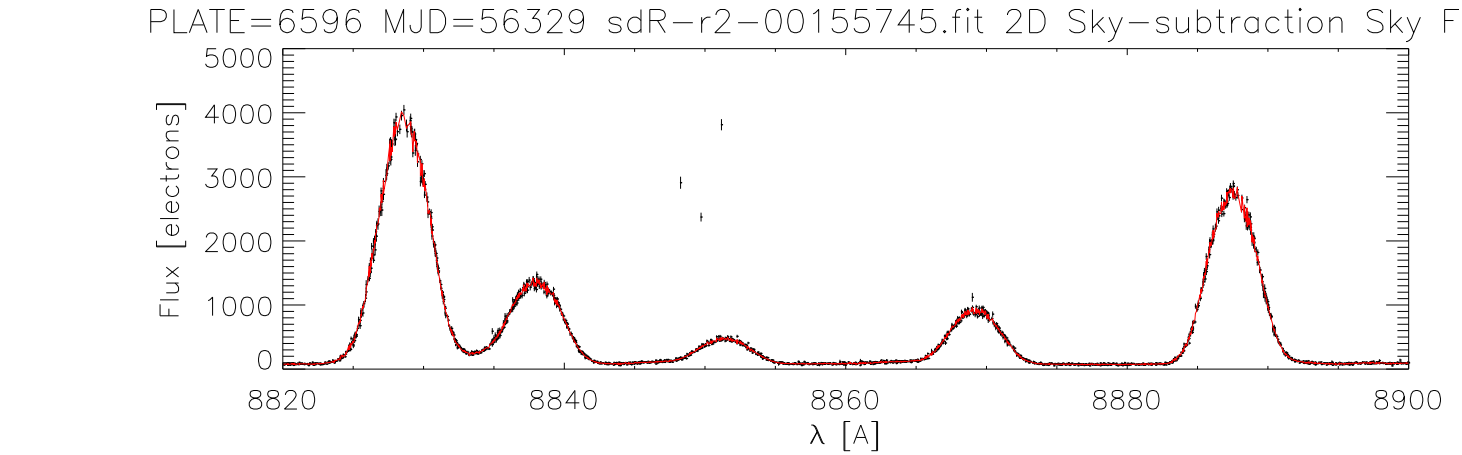

PLATE=6596 MJD=56329 sdR-r2-00155745.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

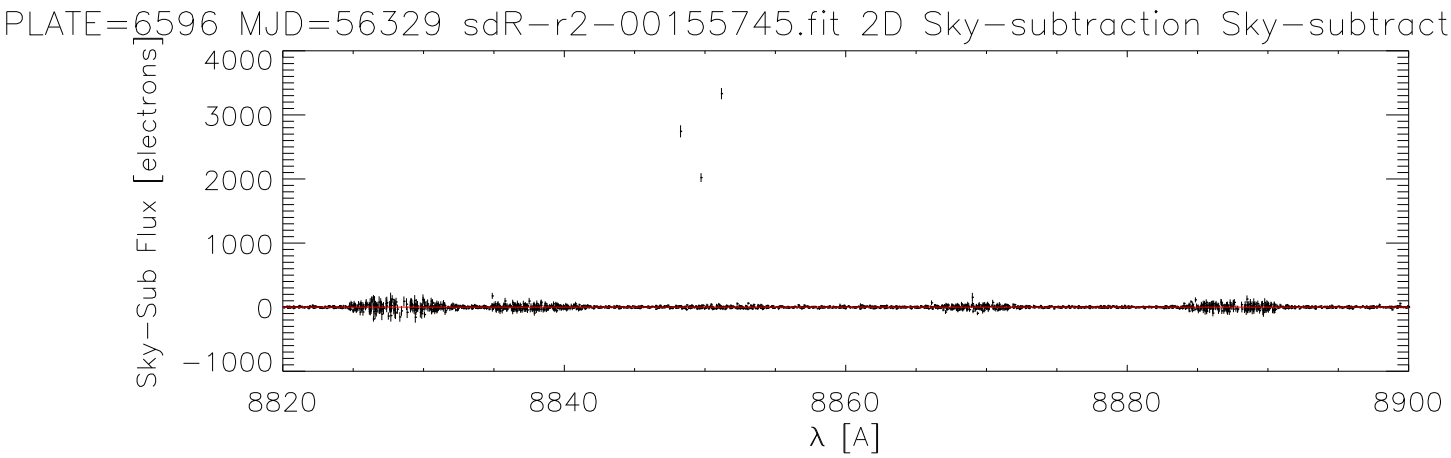

PLATE=6596 MJD=56329 sdR-r2-00155745.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 45

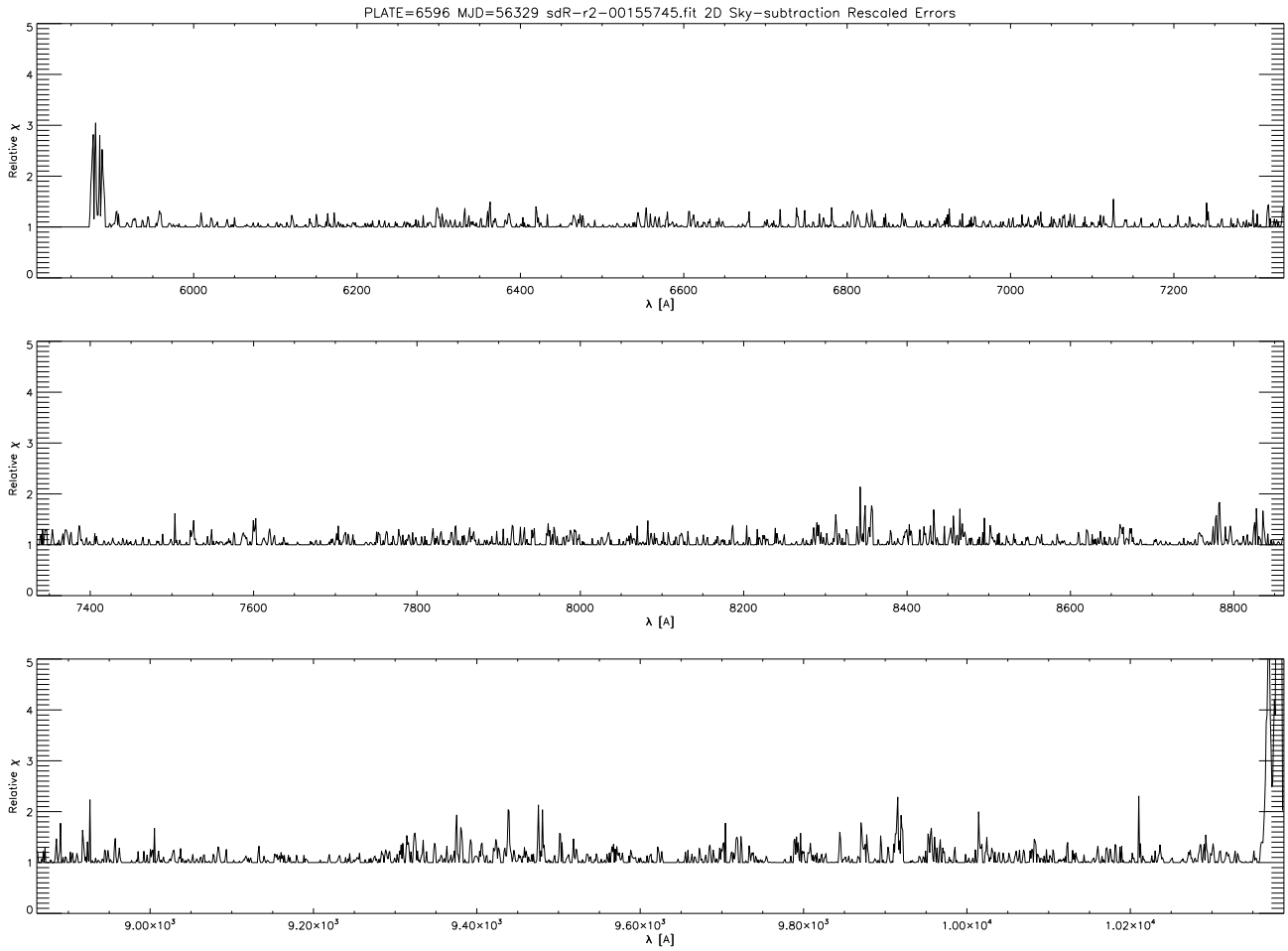


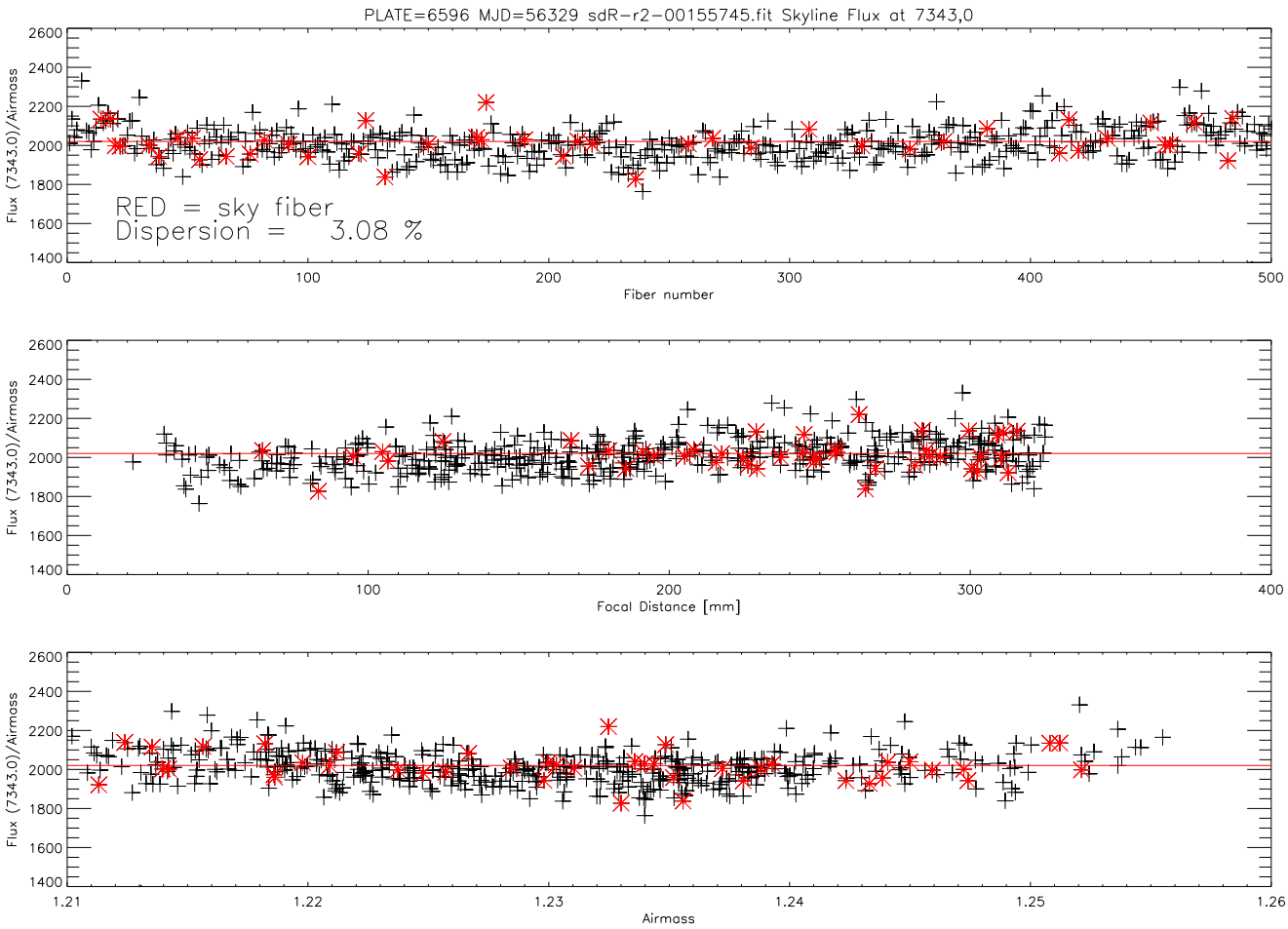

PLATE=6596 MJD=56329 sdR-r2-00155745.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

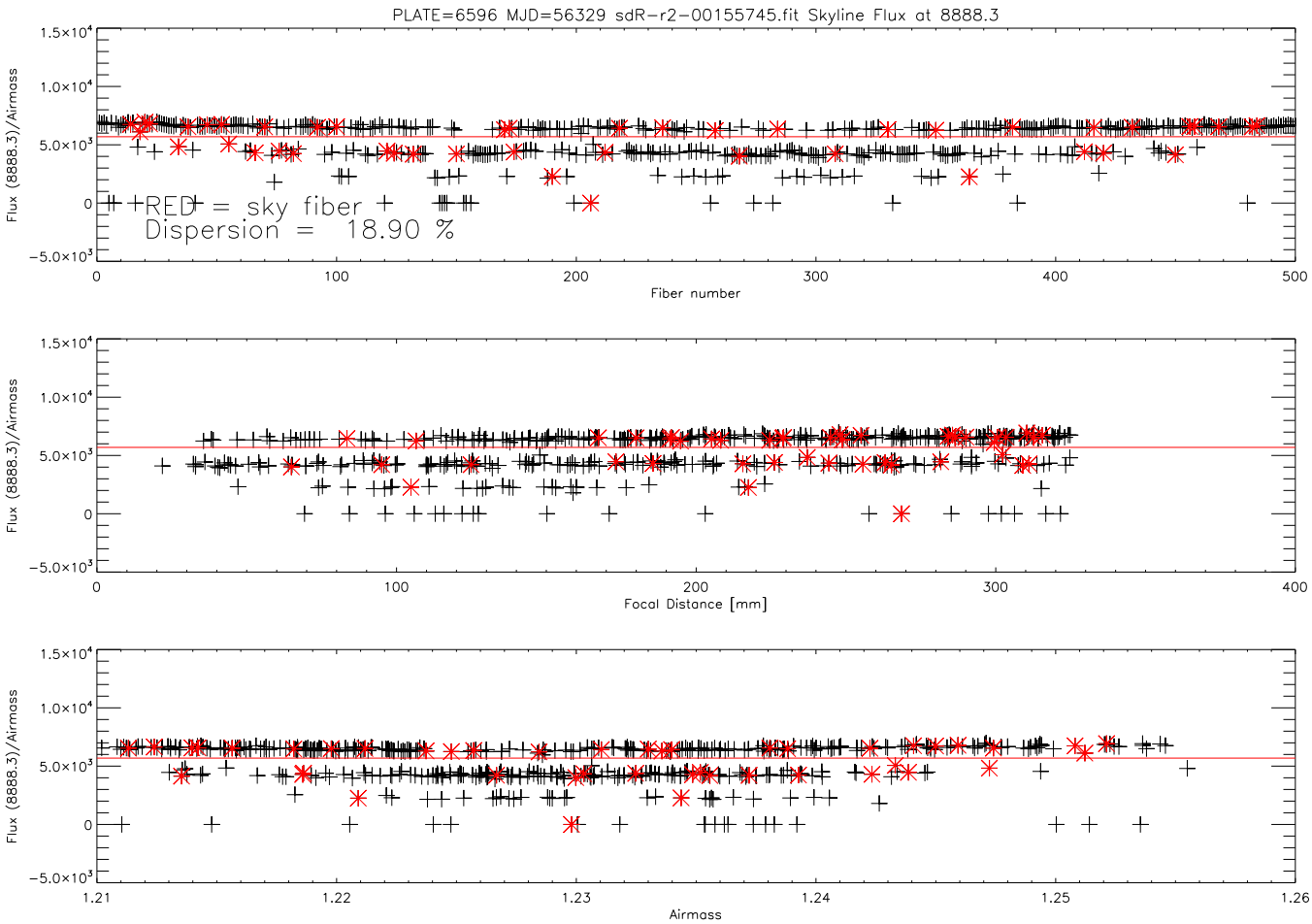

PLATE=6596 MJD=56329 sdR-r2-00155745.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

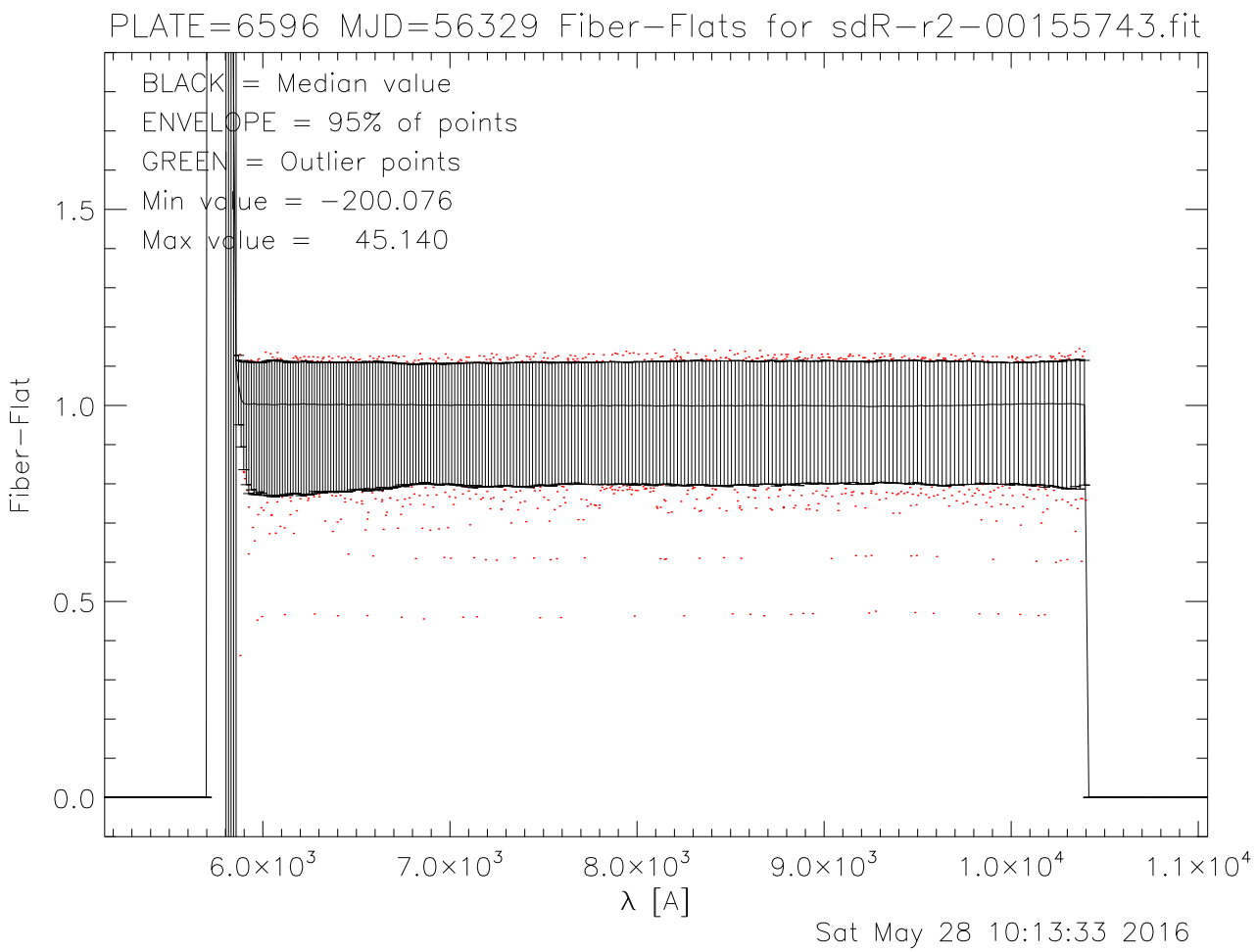

PLATE=6596 MJD=56329 sdR-r2-00155745.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 45




PLATE=6596 MJD=56329 sdR-r2-00155745.fit Skyline Flux at 7343.0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.08 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass


PLATE=6596 MJD=56329 sdR-r2-00155745.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
1.5×10^4
1.0×10^4
5.0×10^3
0
−5.0×10^3
RED = sky fiber
Dispersion = 18.90 %
0
100
200
300
400
500
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
1.21
1.22
1.23
1.24
1.25
1.26
Airmass


PLATE=6596 MJD=56329 Fiber−Flats for sdR−r2−00155743.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −200.076
Max value = 45.140
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]
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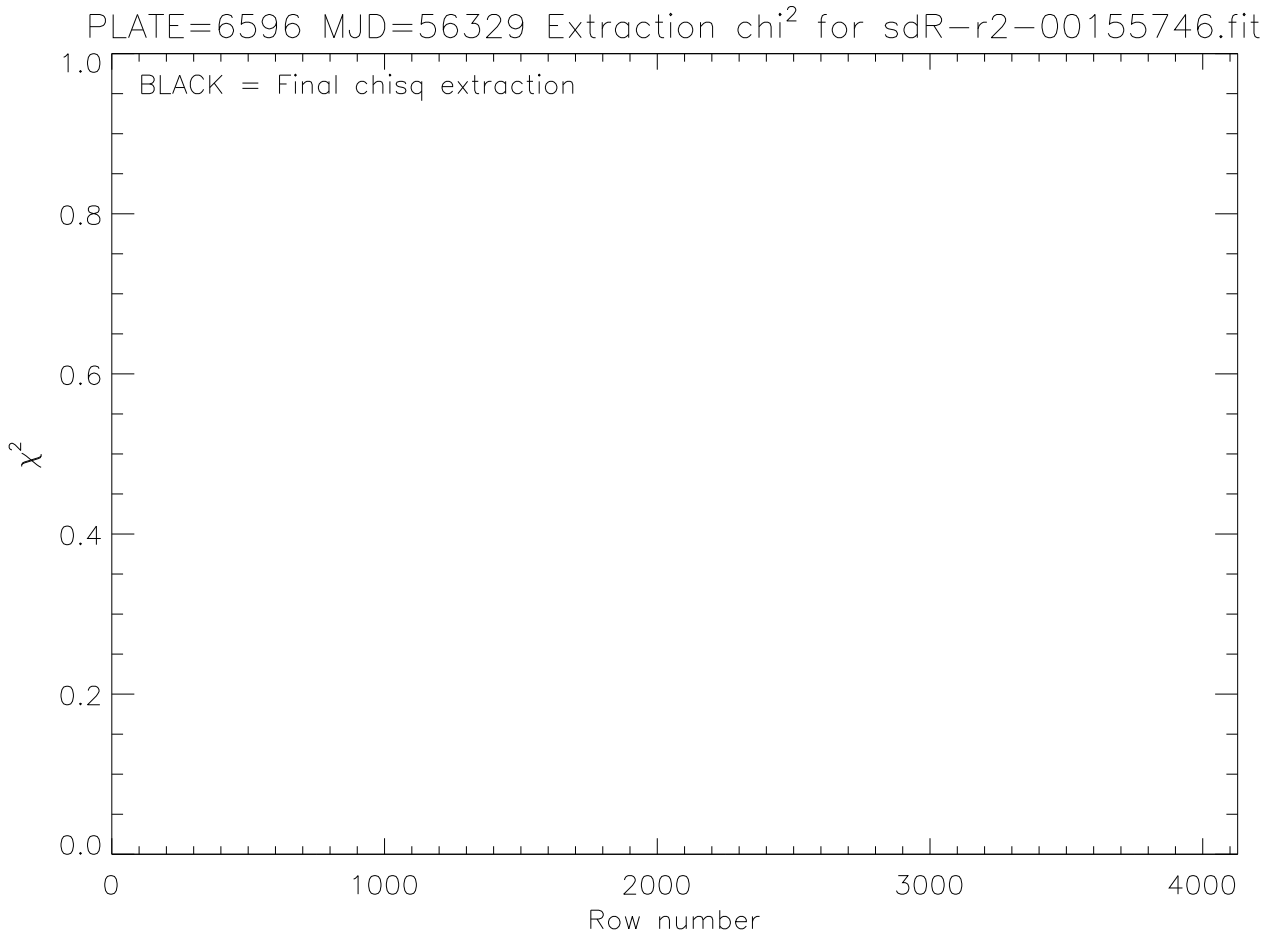
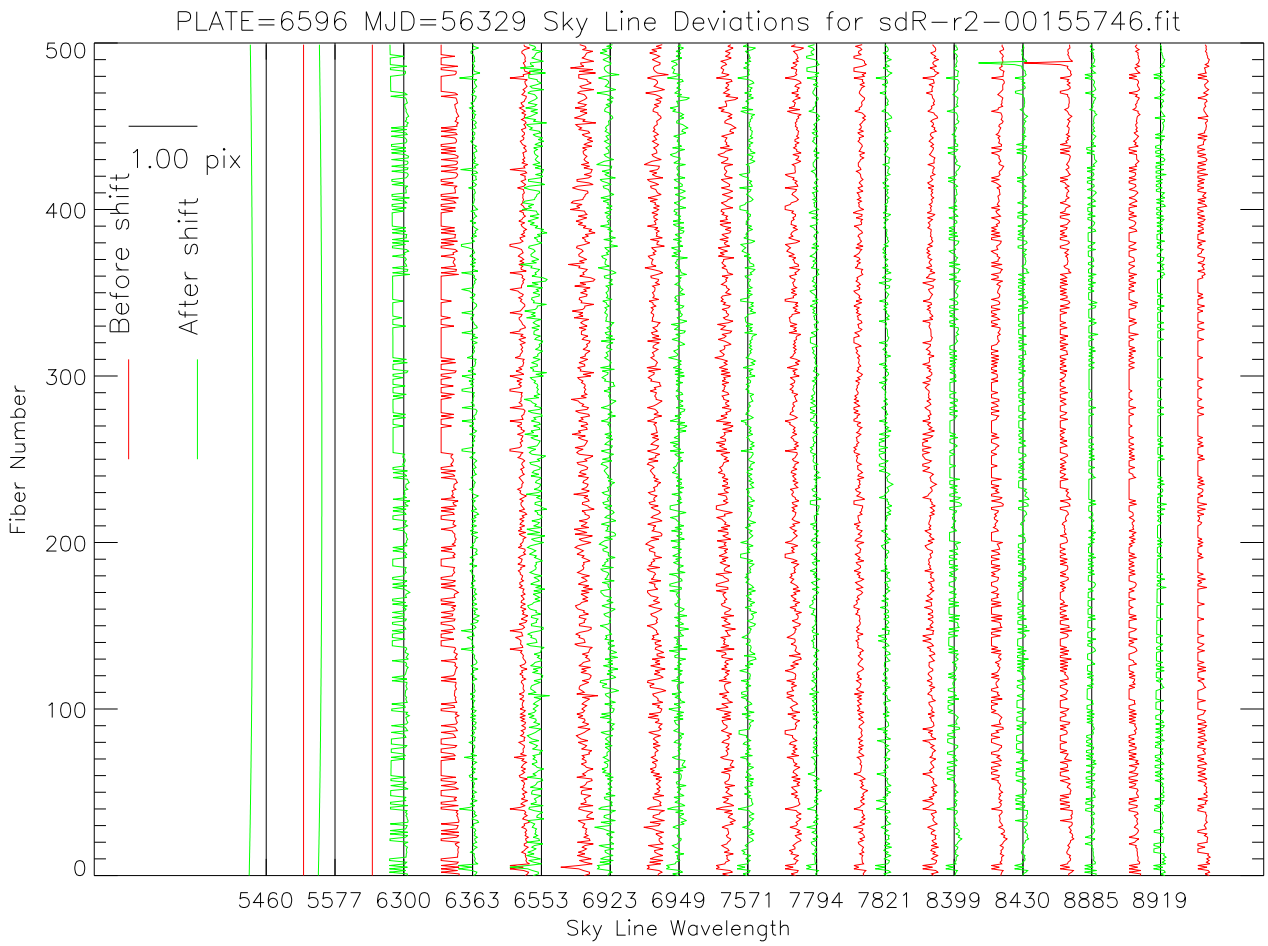
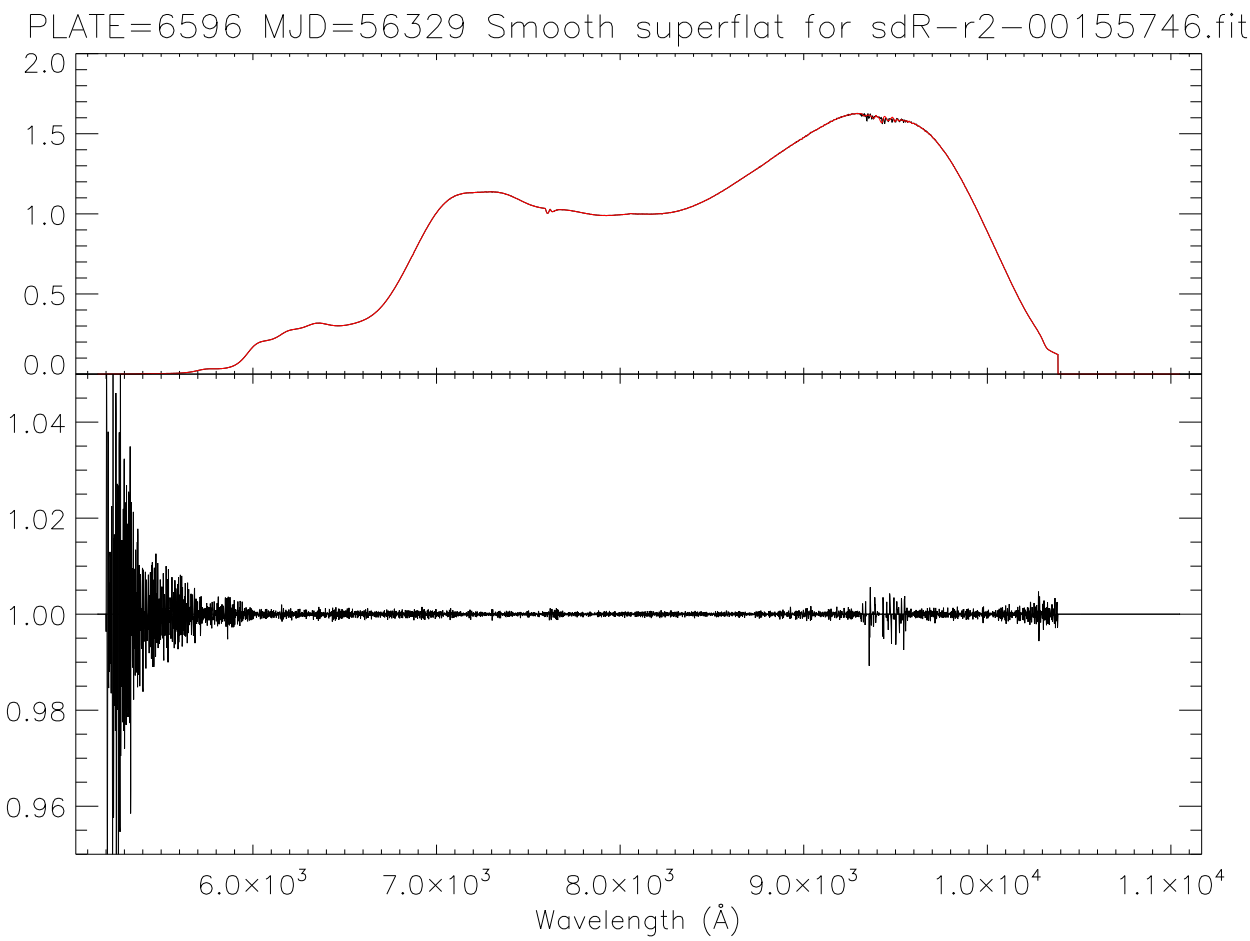
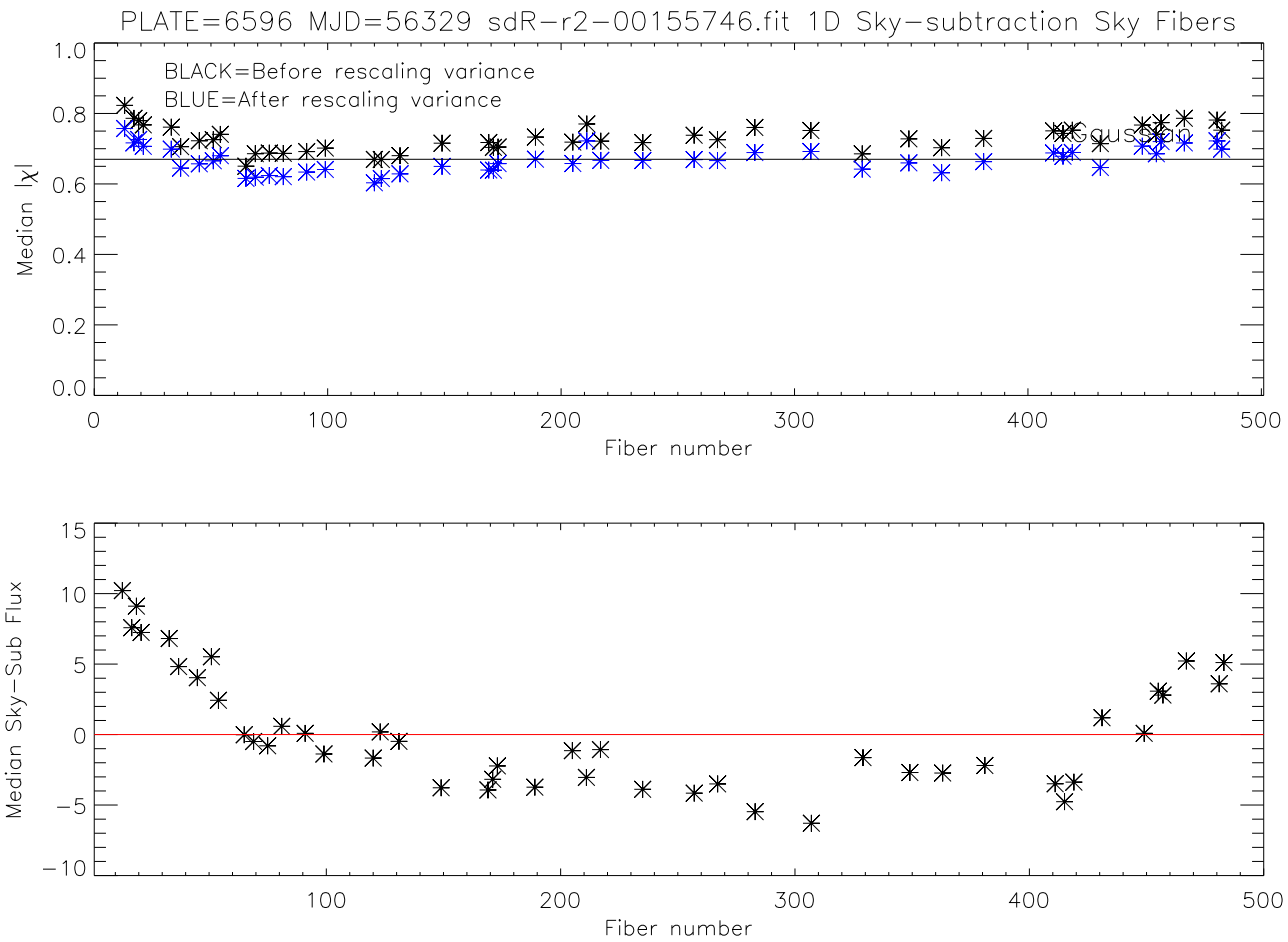
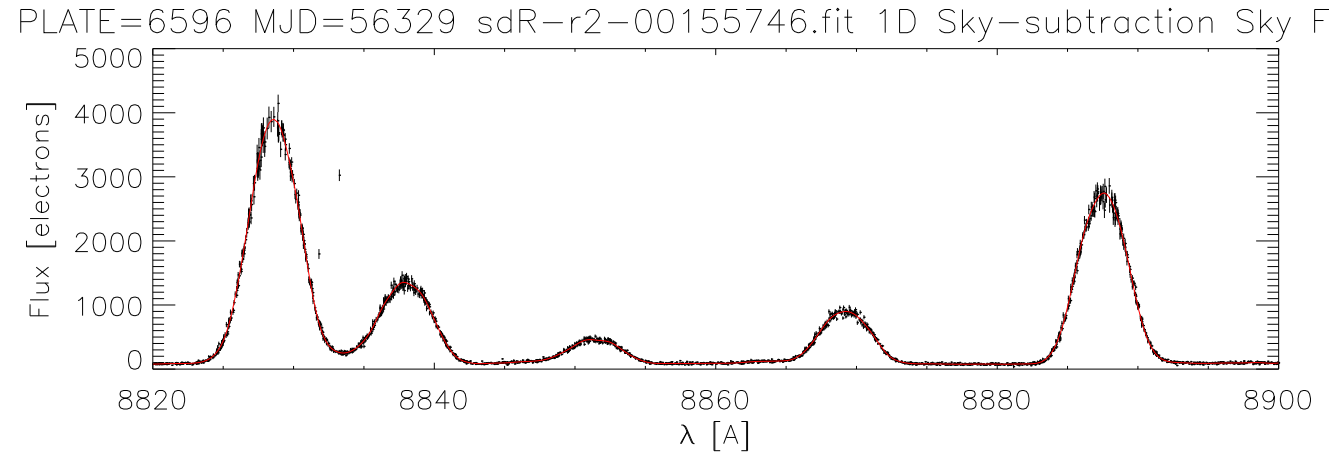
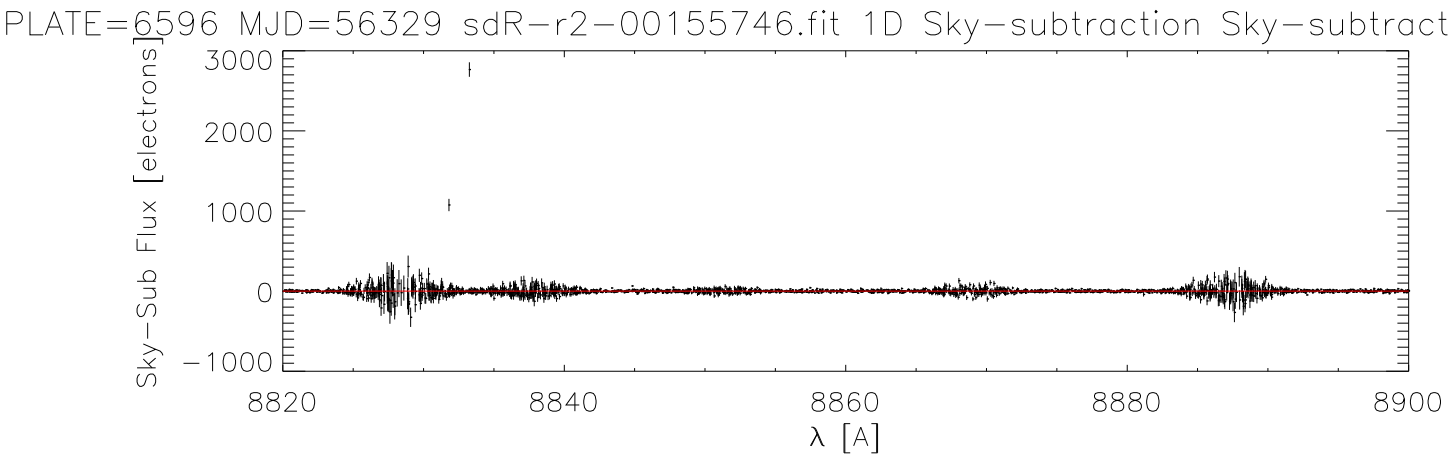

PLATE=6596 MJD=56329 Extraction chi^2 for sdR−r2−00155746.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=6596 MJD=56329 Sky Line Deviations for sdR-r2-00155746.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

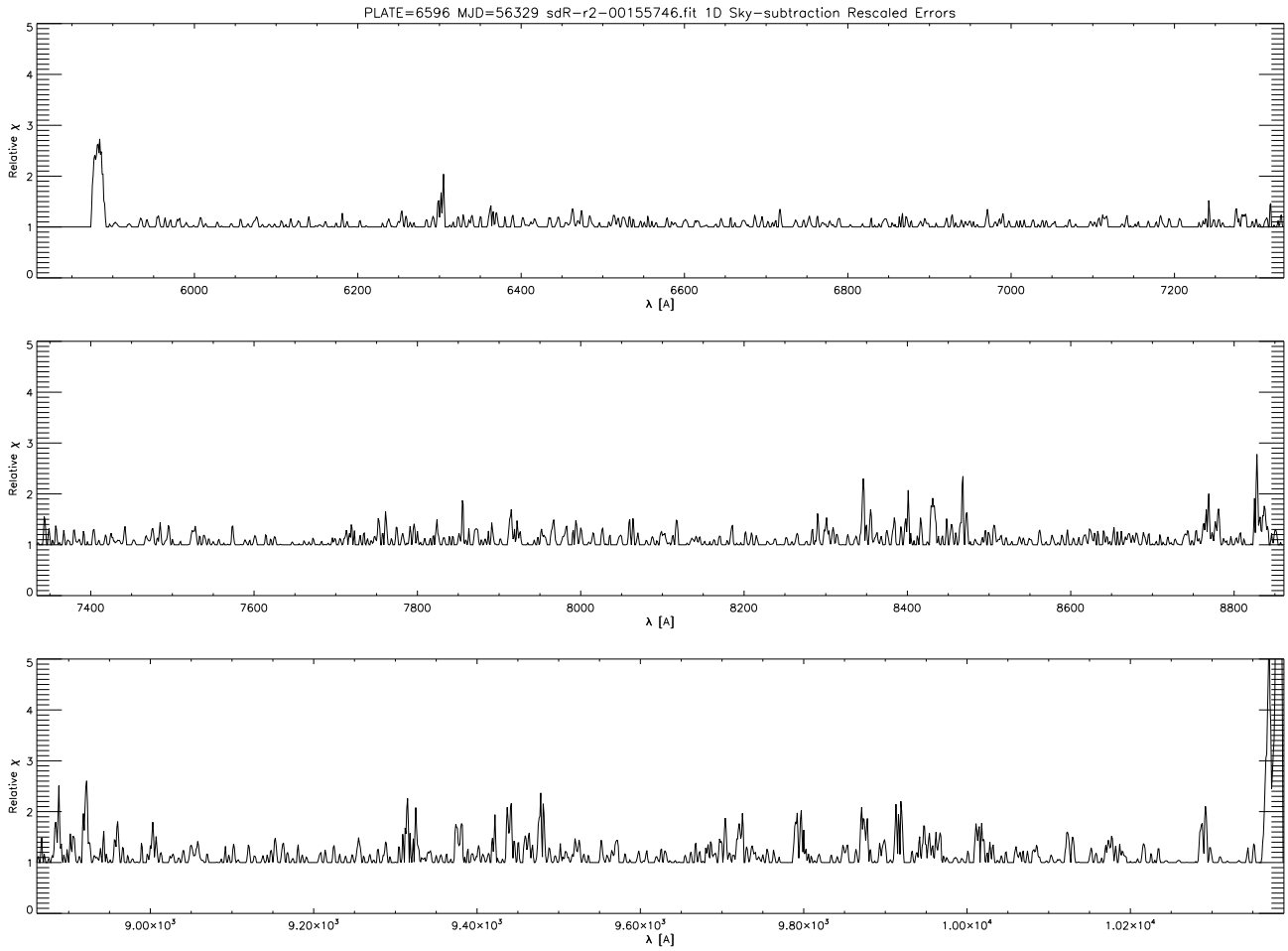

PLATE=6596 MJD=56329 Smooth superflat for sdR-r2-00155746.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

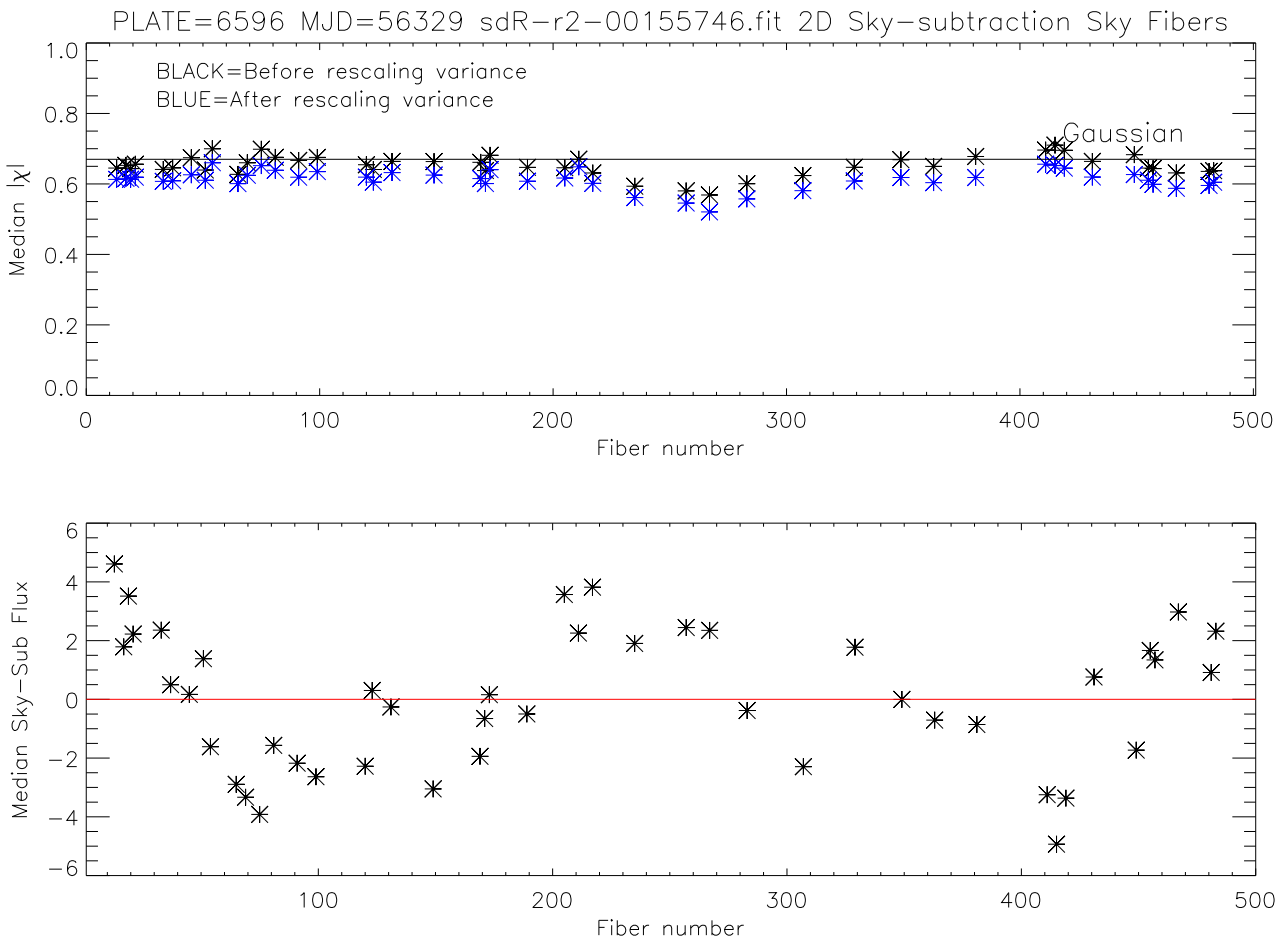

PLATE=6596 MJD=56329 sdR-r2-00155746.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

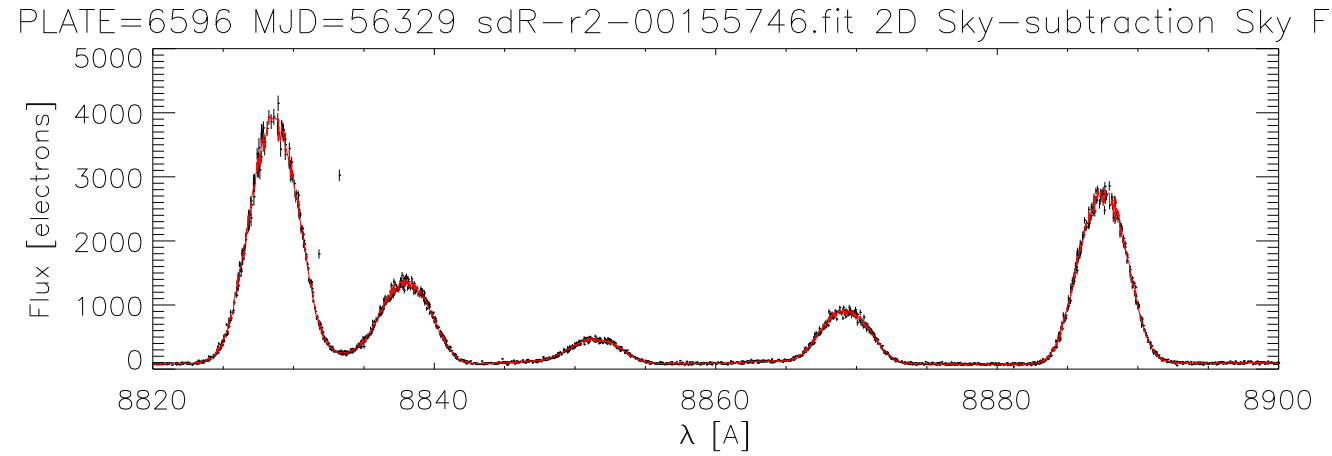

PLATE=6596 MJD=56329 sdR-r2-00155746.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

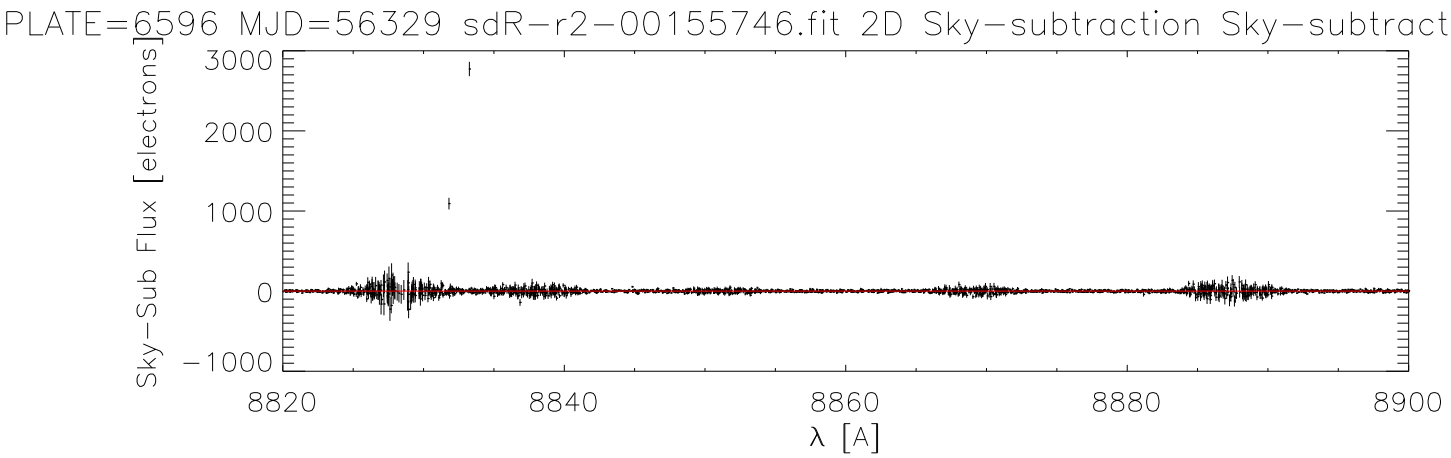

PLATE=6596 MJD=56329 sdR-r2-00155746.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 45

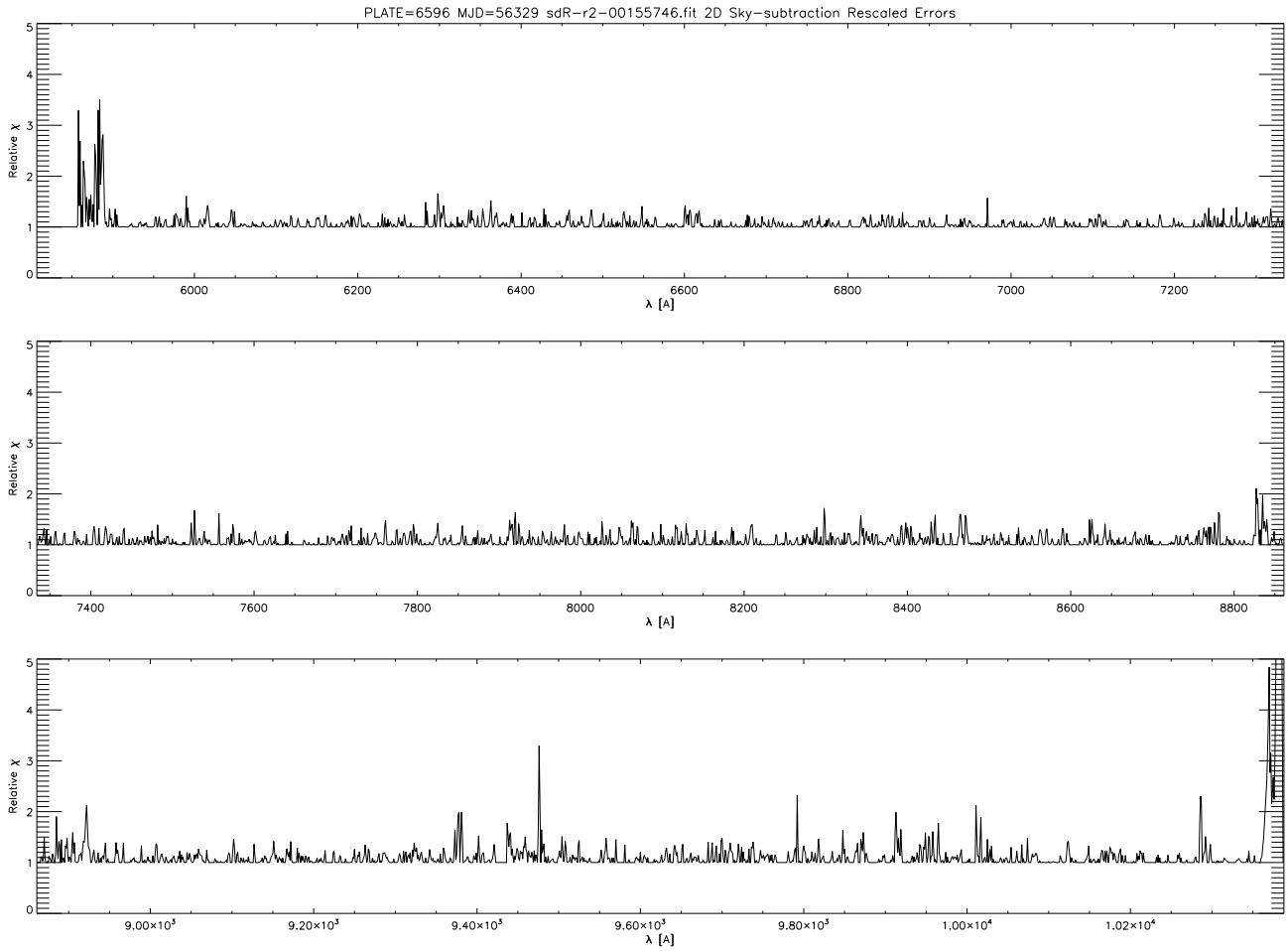


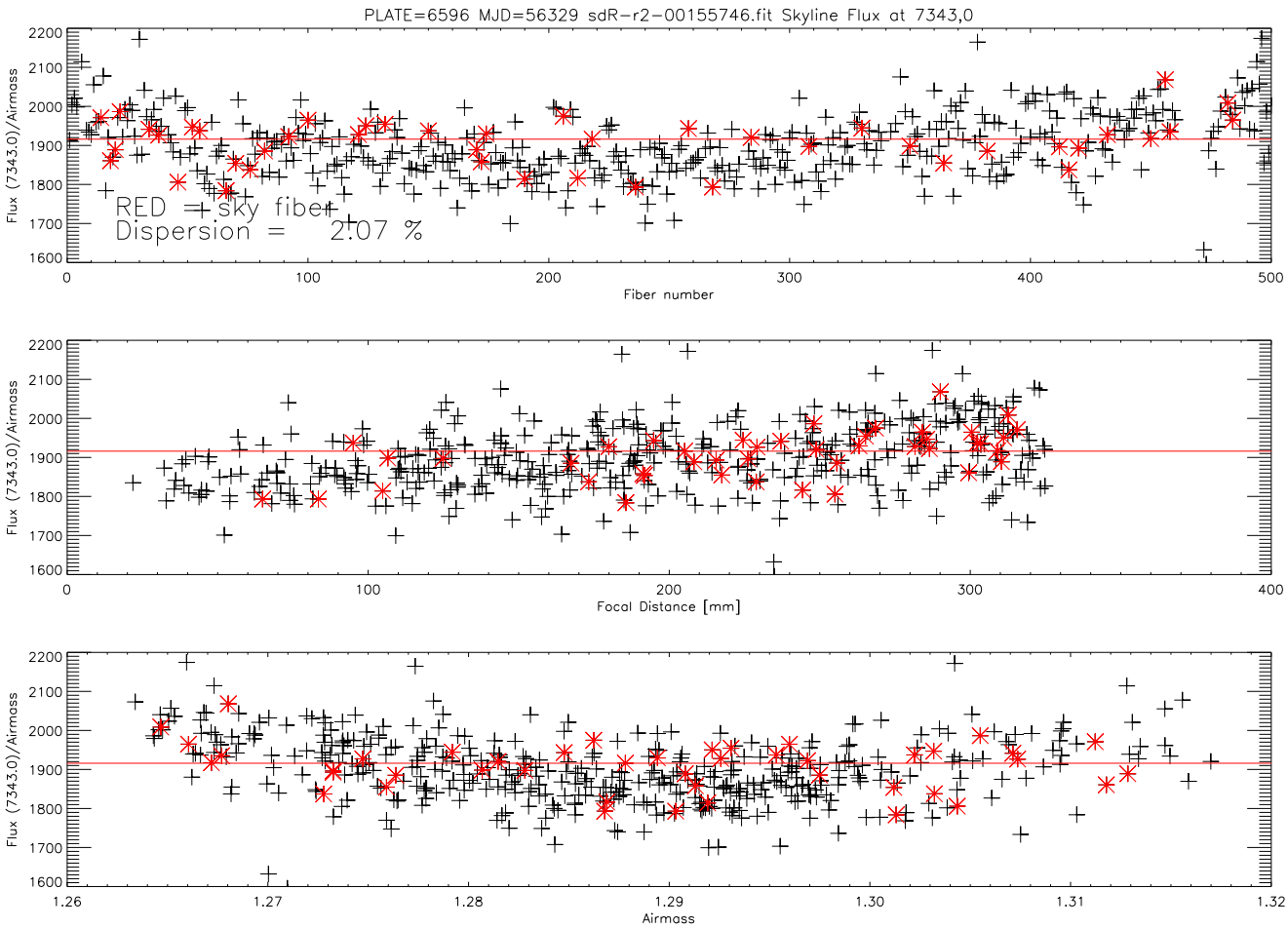

PLATE=6596 MJD=56329 sdR-r2-00155746.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

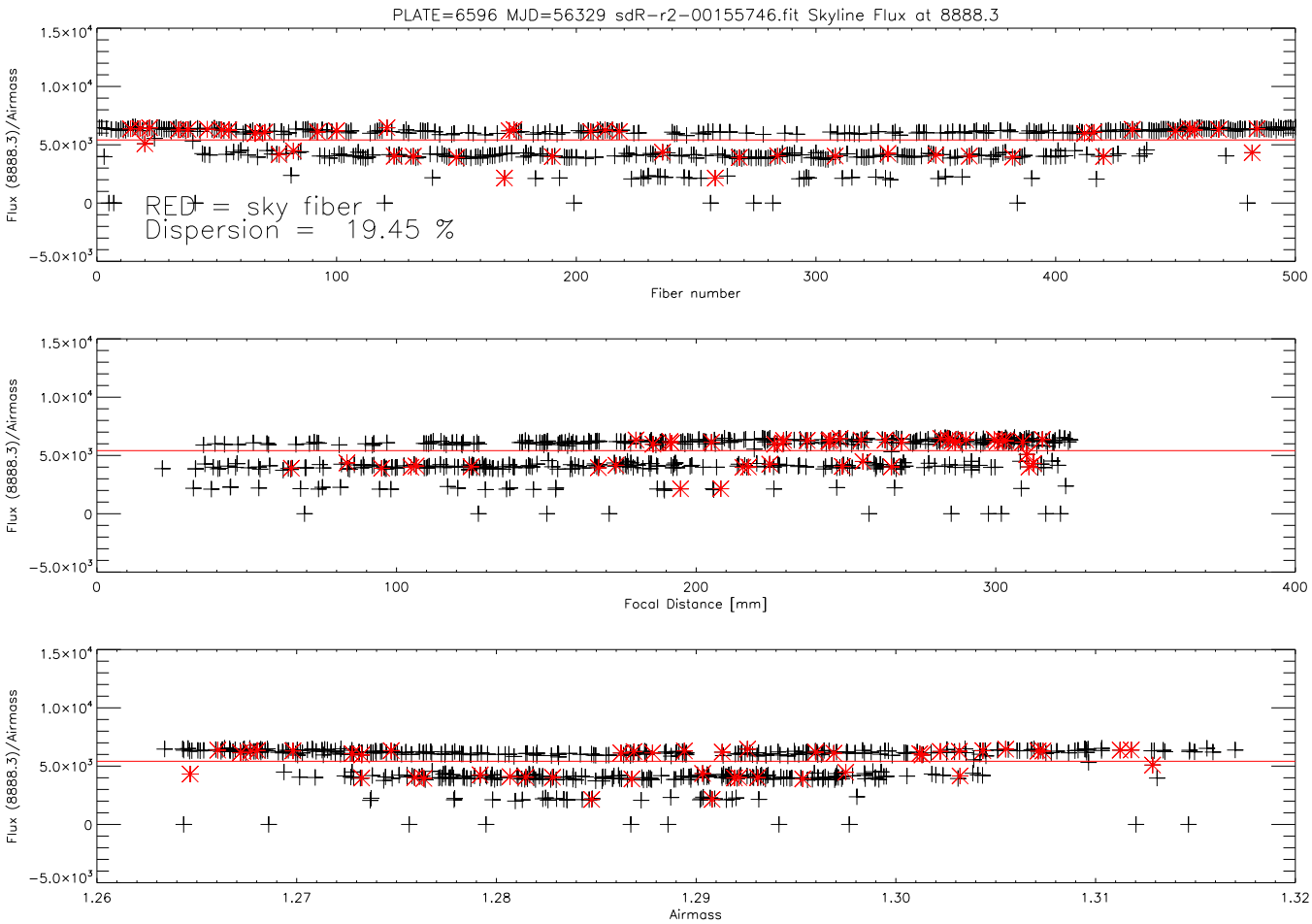

PLATE=6596 MJD=56329 sdR-r2-00155746.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]


PLATE=6596 MJD=56329 sdR-r2-00155746.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 45




PLATE=6596 MJD=56329 sdR-r2-00155746.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.07 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass


PLATE=6596 MJD=56329 sdR-r2-00155746.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
1.5×10⁴
1.0×10⁴
5.0×10³
0
−5.0×10³
RED = sky fiber
Dispersion = 19.45 %
0
100
200
300
400
500
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
1.26
1.27
1.28
1.29
1.30
1.31
1.32
Airmass