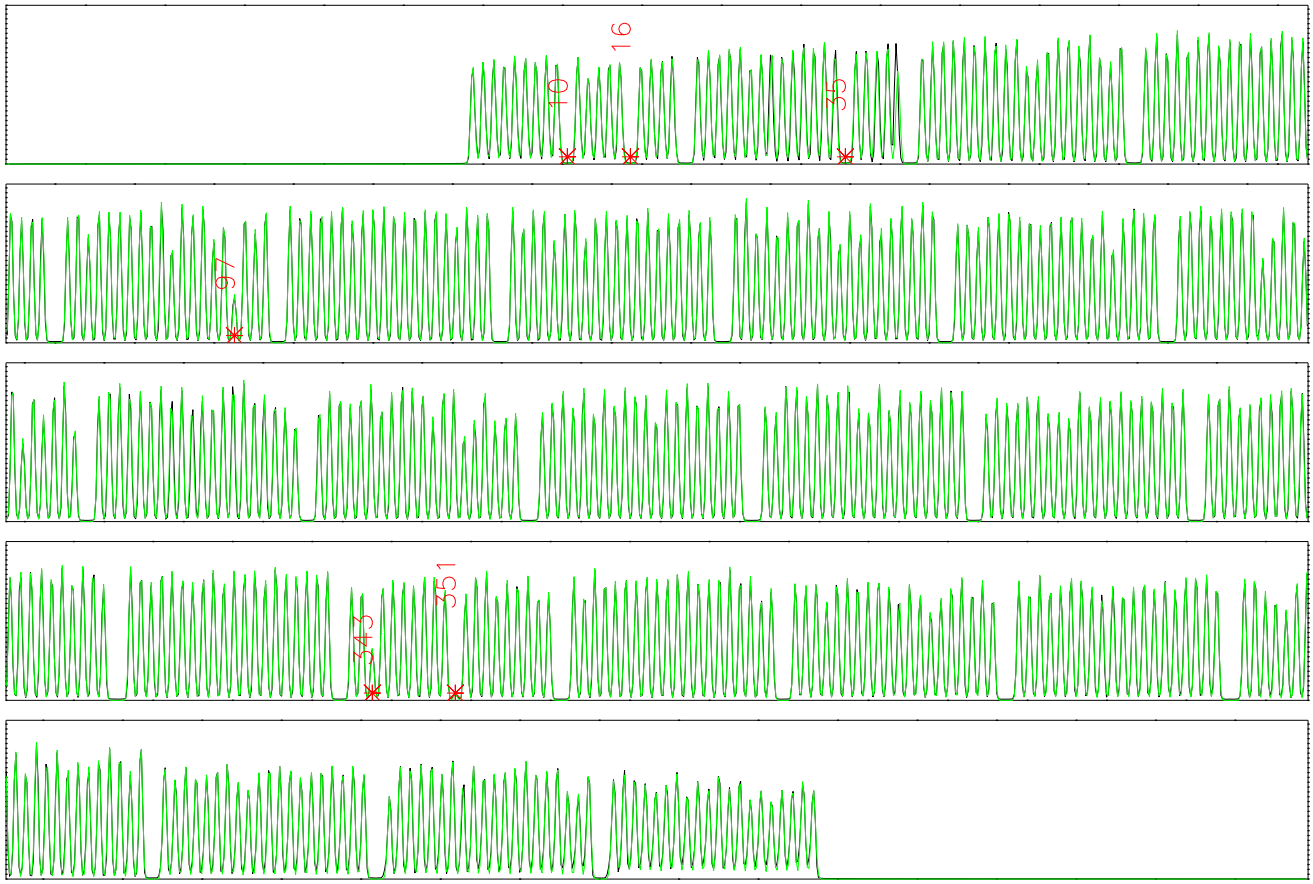
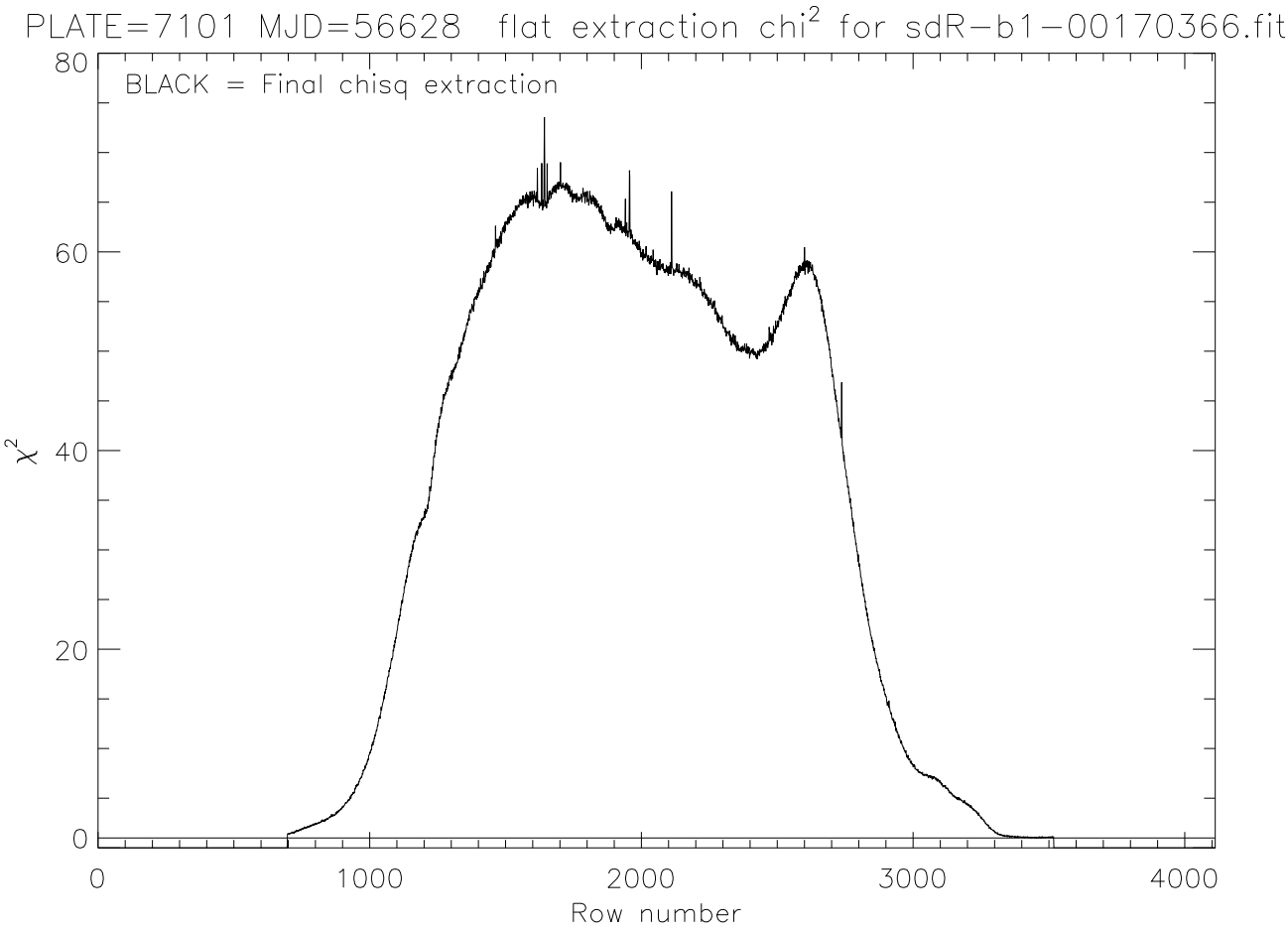
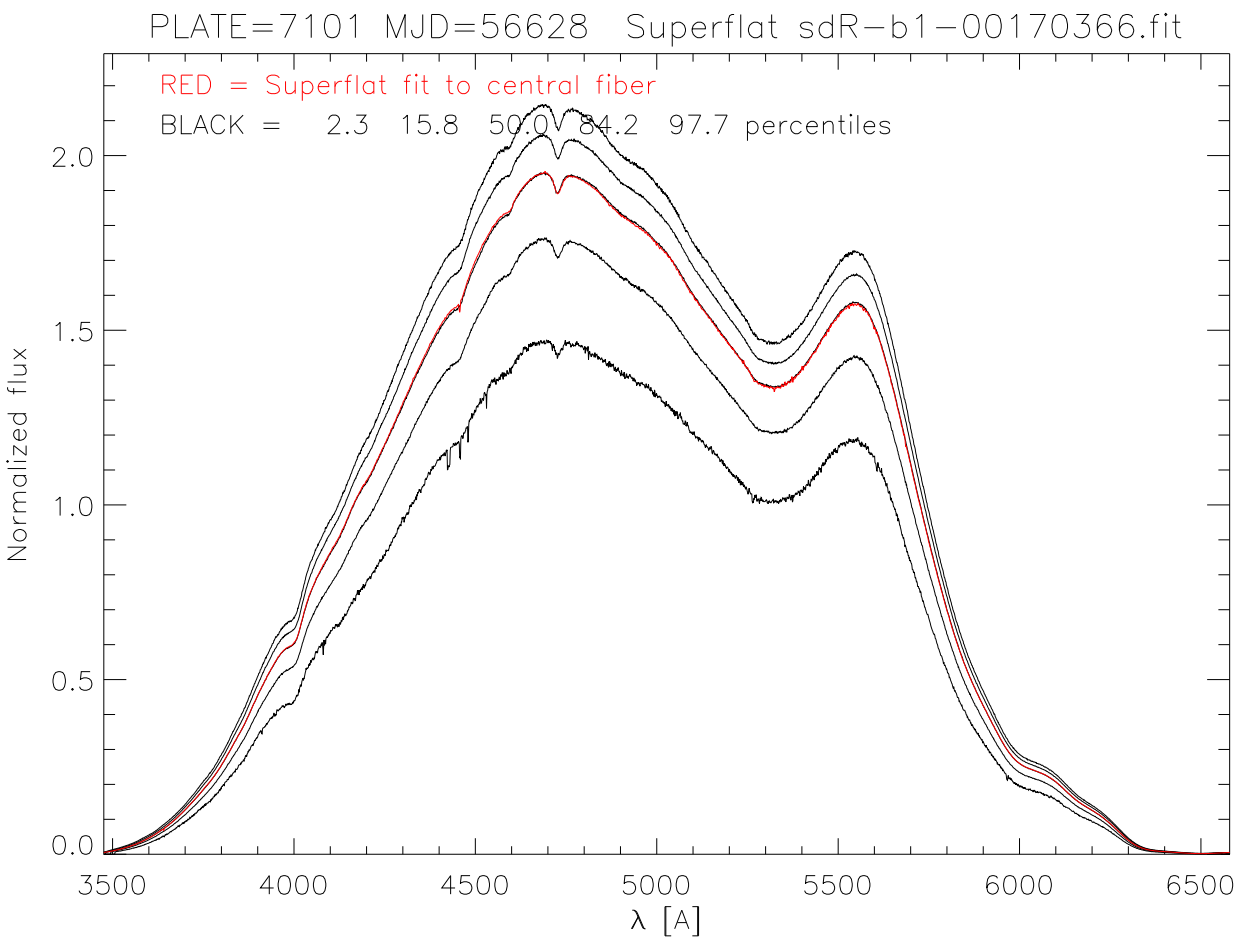
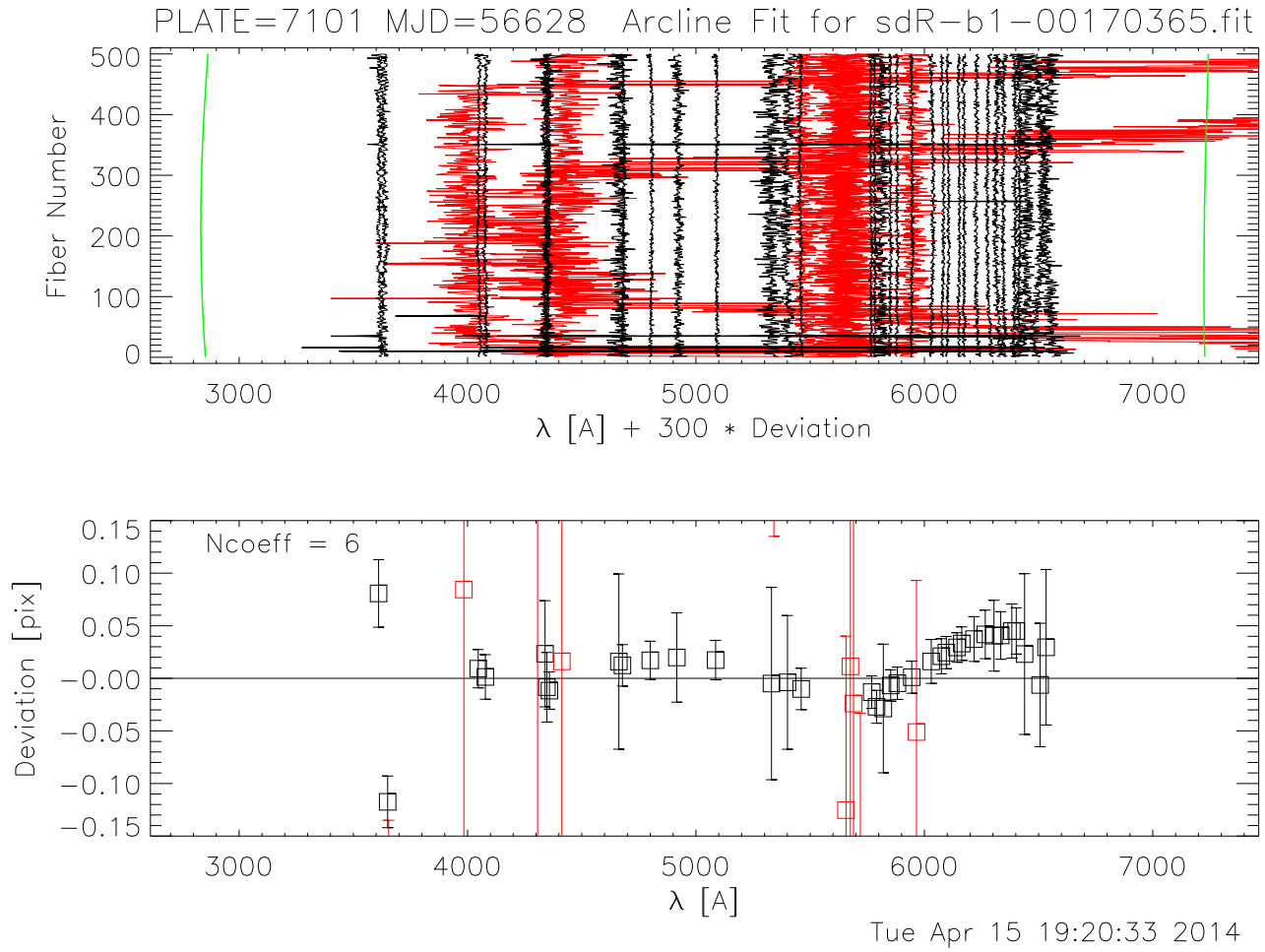
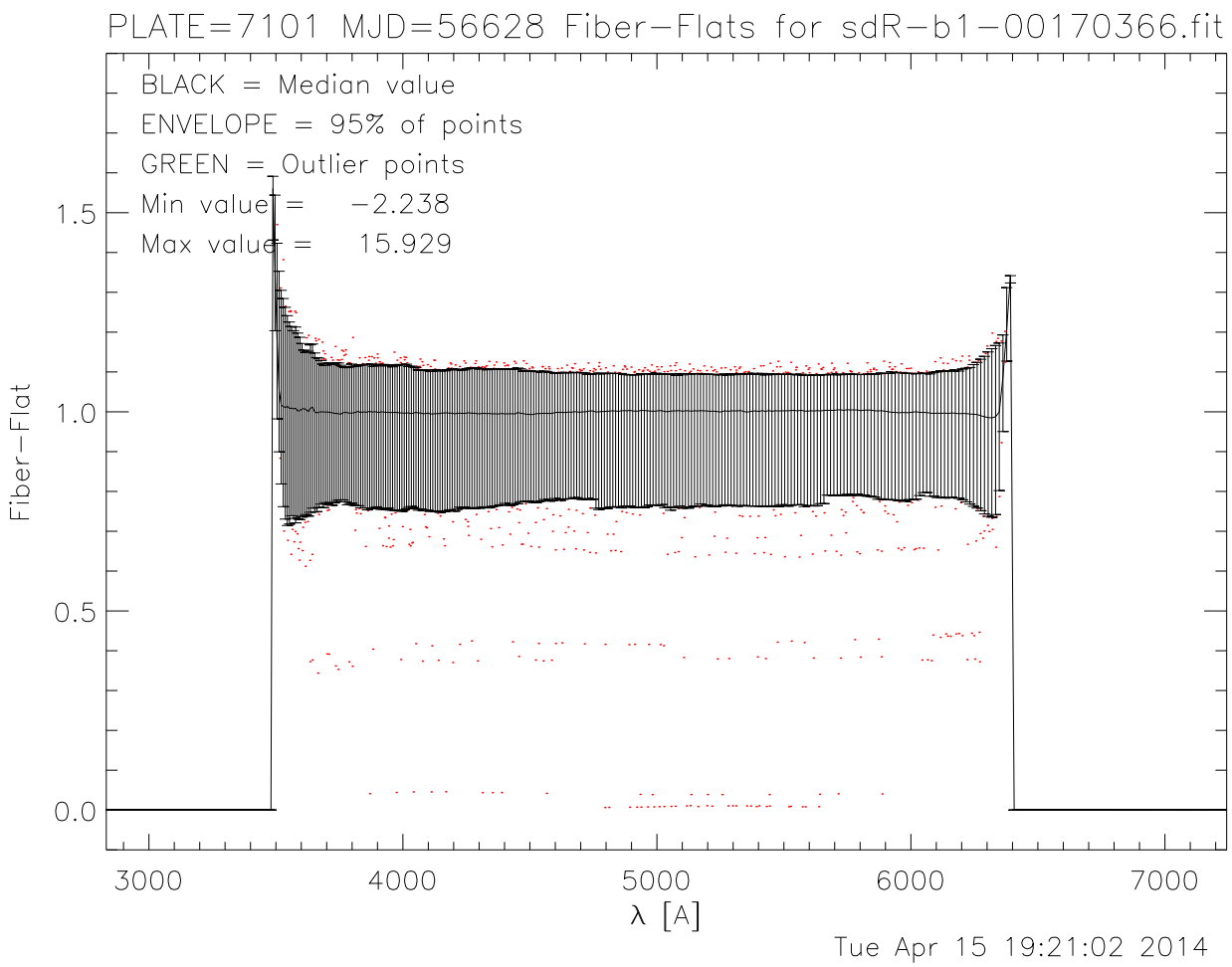
PLATE=7101 MJD=56628 Traces sdR-b1-00170366.fit

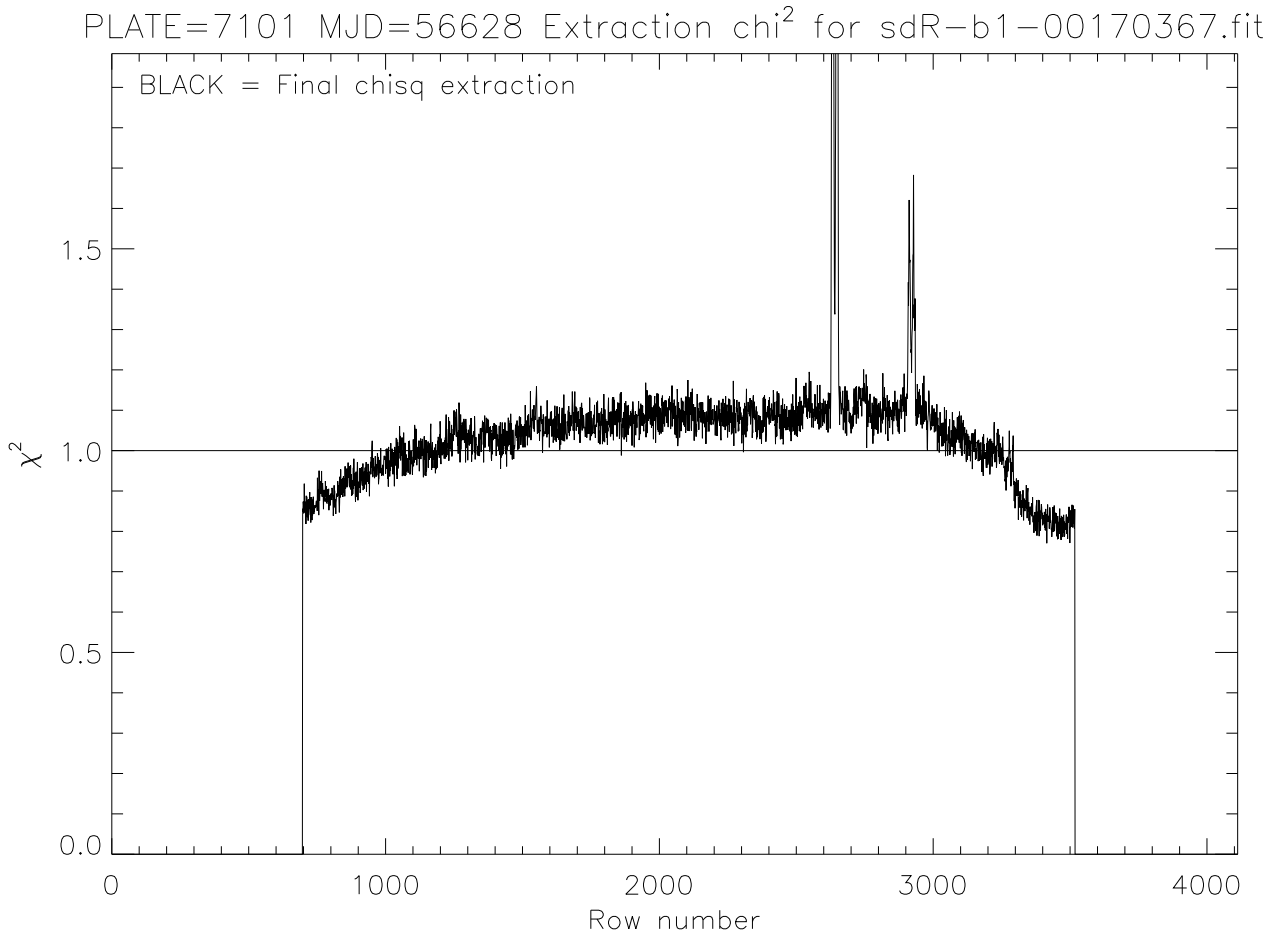


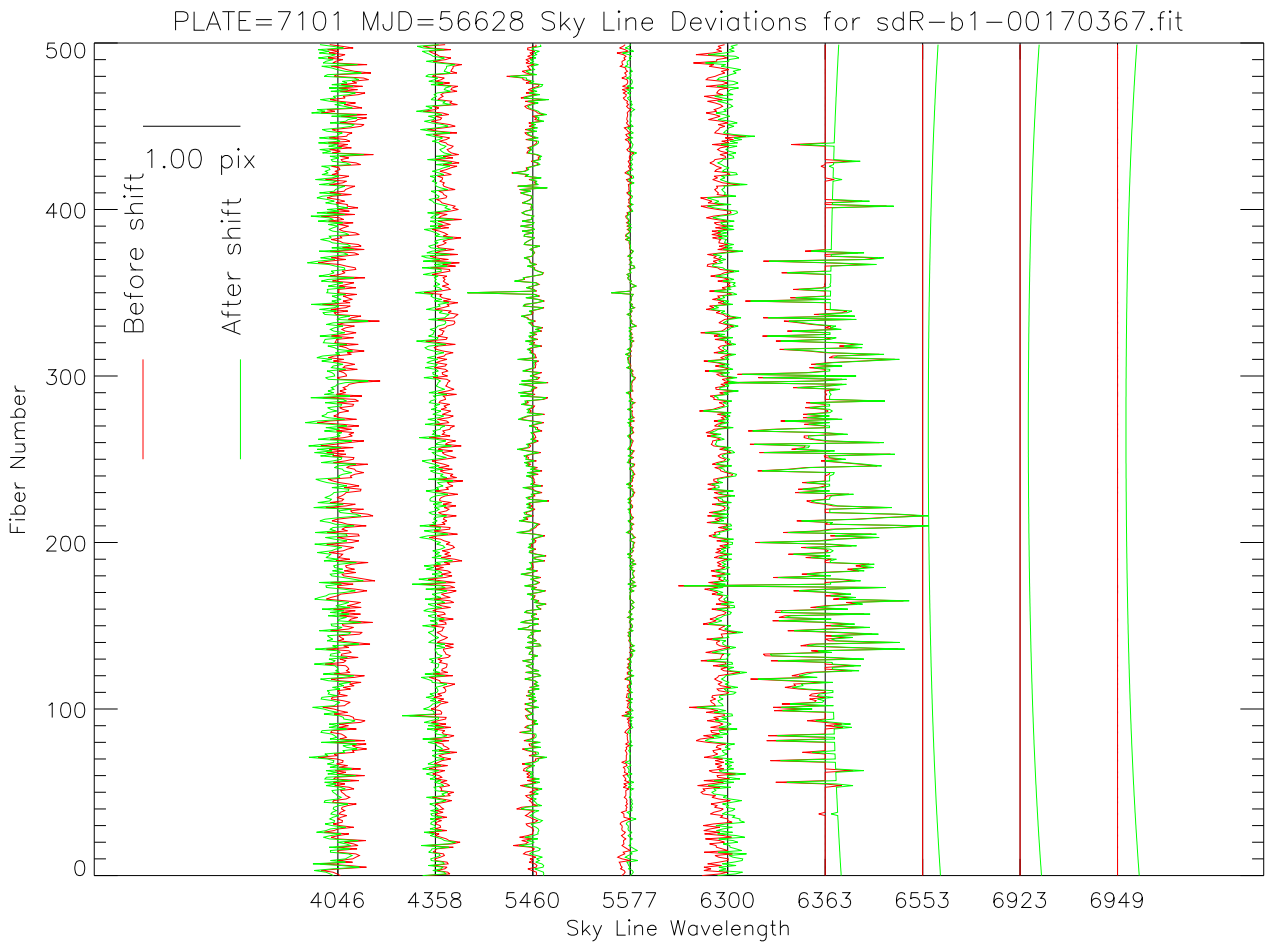

PLATE=7101 MJD=56628 flat extraction chi^2 for sdR−b1−00170366.fit
BLACK = Final chisq extraction
χ^2
0
20
40
60
80
0
1000
2000
3000
4000
Row number

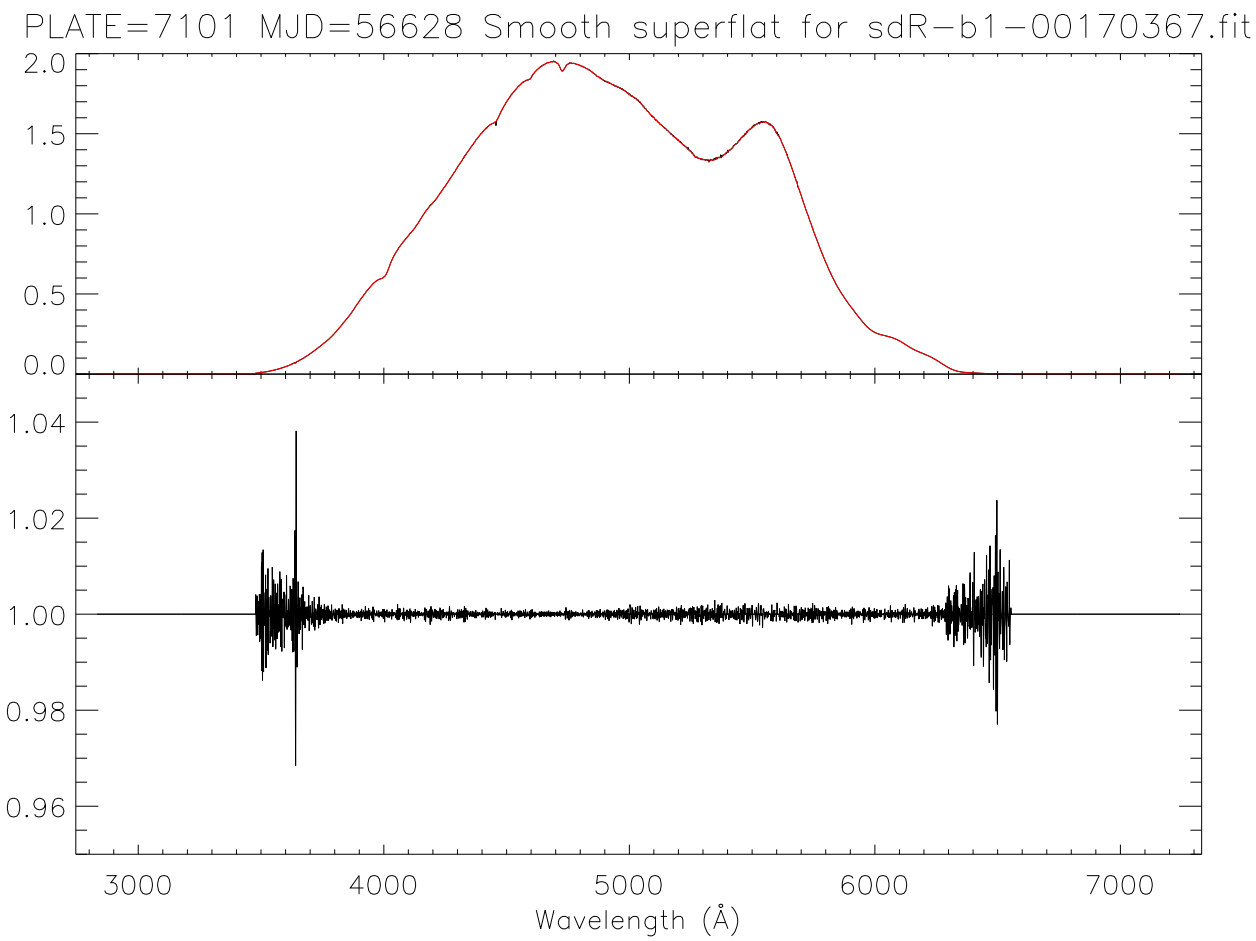

PLATE=7101 MJD=56628 Superflat sdR-b1-00170366.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
3500
4000
4500
5000
5500
6000
6500

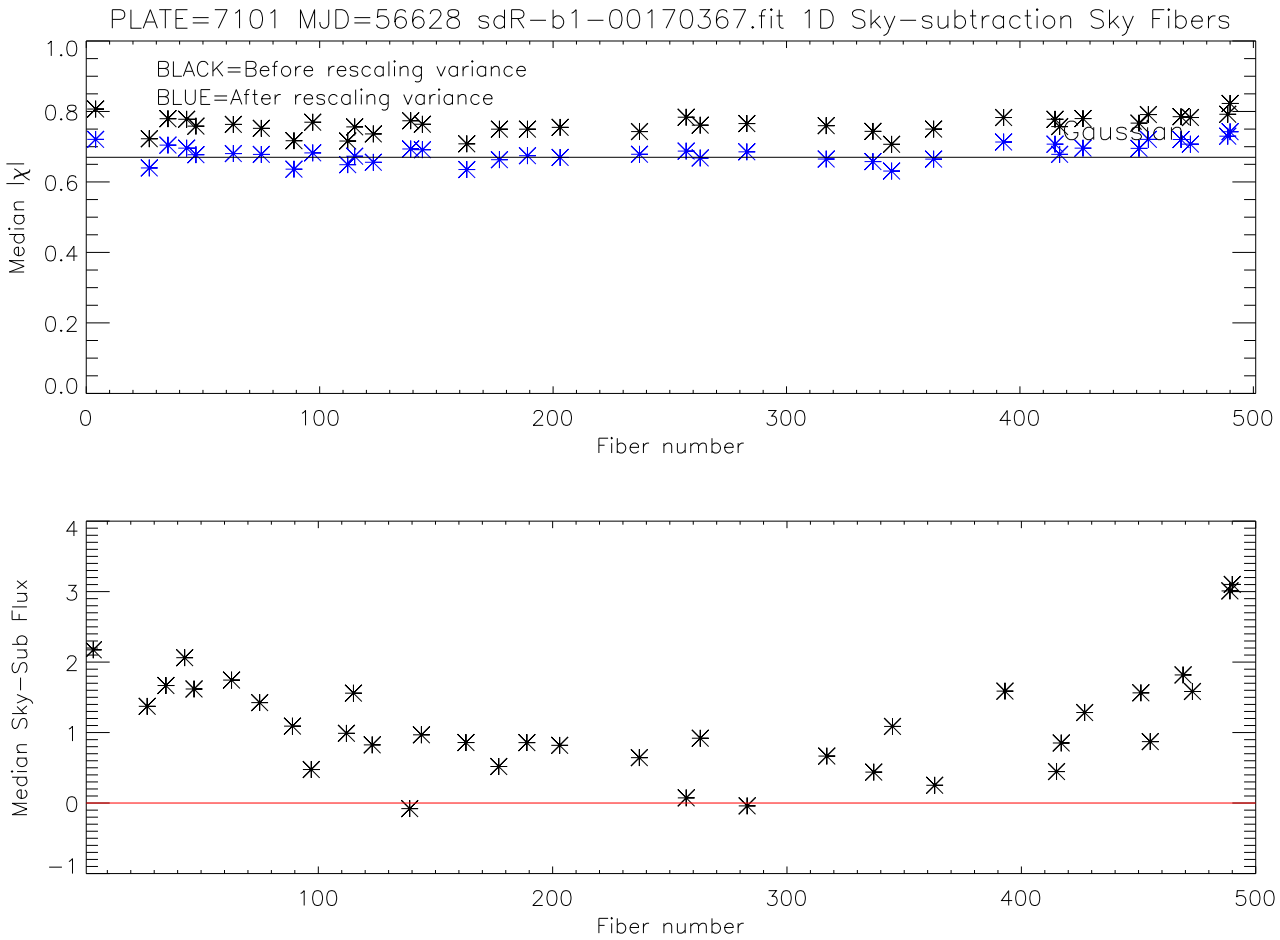

PLATE=7101 MJD=56628 Arcline Fit for sdR-b1-00170365.fit
Fiber Number
500
400
300
200
100
0
3000
4000
5000
6000
7000
λ [A] + 300 * Deviation
Ncoeff = 6
Deviation [pix]
0.15
0.10
0.05
−0.00
−0.05
−0.10
−0.15
3000
4000
5000
6000
7000
λ [A]
Tue Apr 15 19:20:33 2014

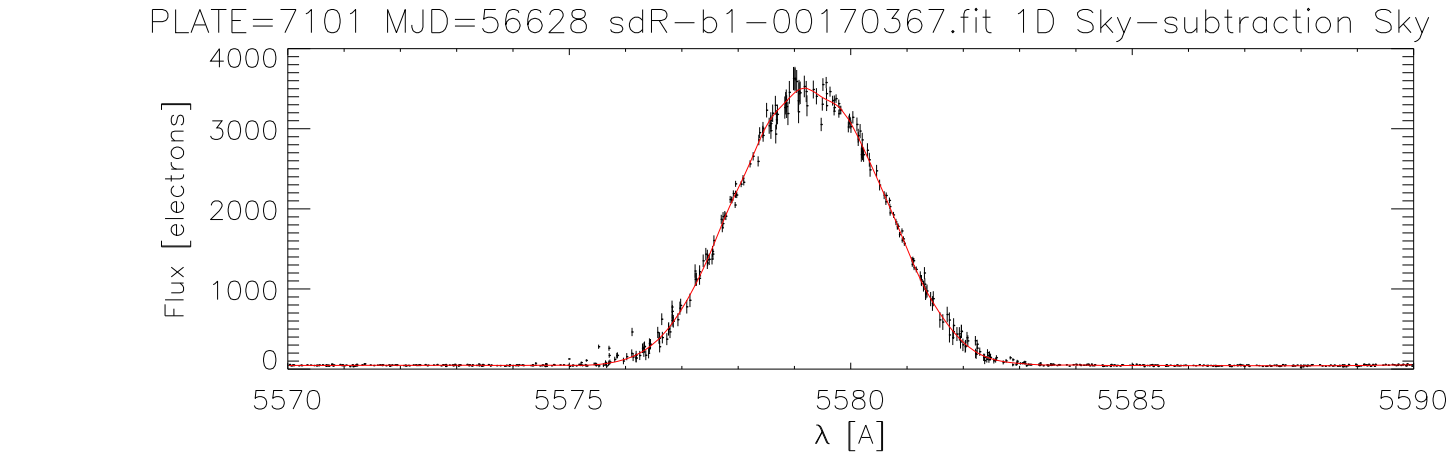

PLATE=7101 MJD=56628 Fiber−Flats for sdR−b1−00170366.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −2.238
Max value = 15.929
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Tue Apr 15 19:21:02 2014

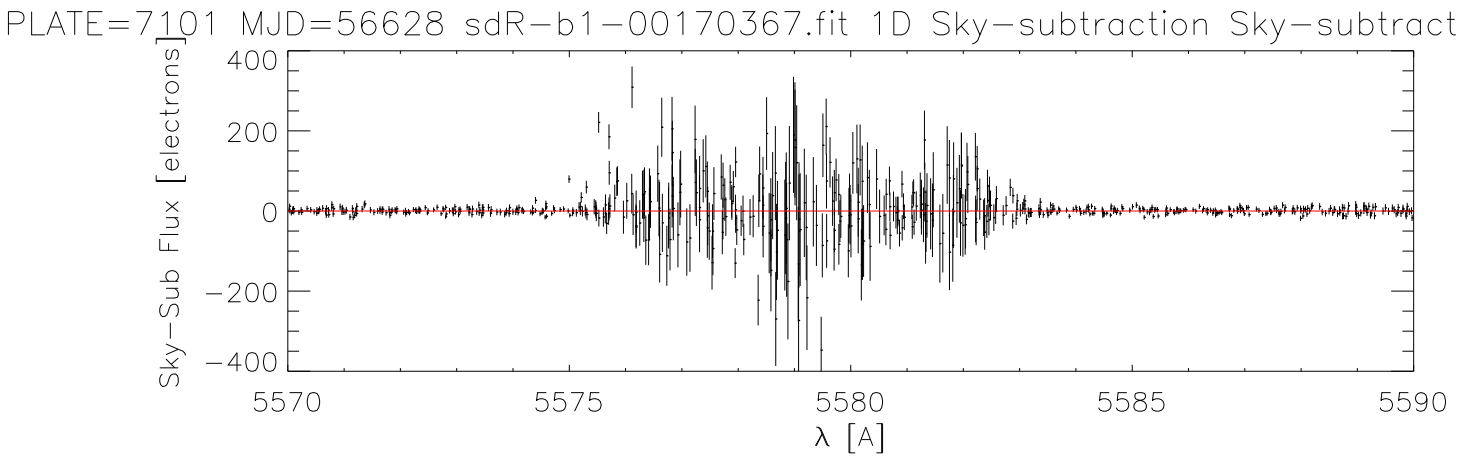

PLATE=7101 MJD=56628 Extraction chi^2 for sdR−b1−00170367.fit
BLACK = Final chisq extraction
χ^2
0.0
0.5
1.0
1.5
0
1000
2000
3000
4000
Row number


PLATE=7101 MJD=56628 Sky Line Deviations for sdR-b1-00170367.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

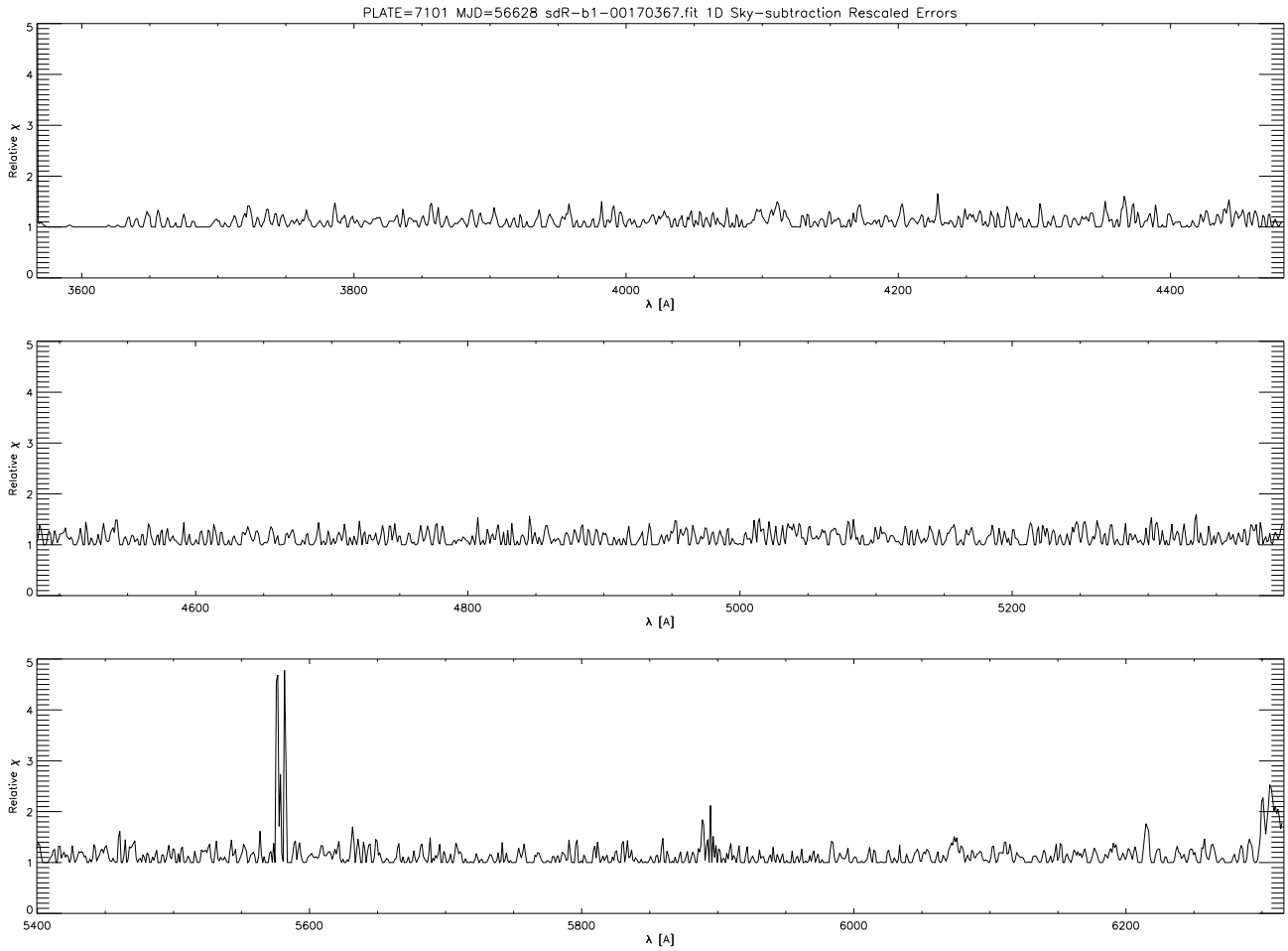

PLATE=7101 MJD=56628 Smooth superflat for sdR-b1-00170367.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

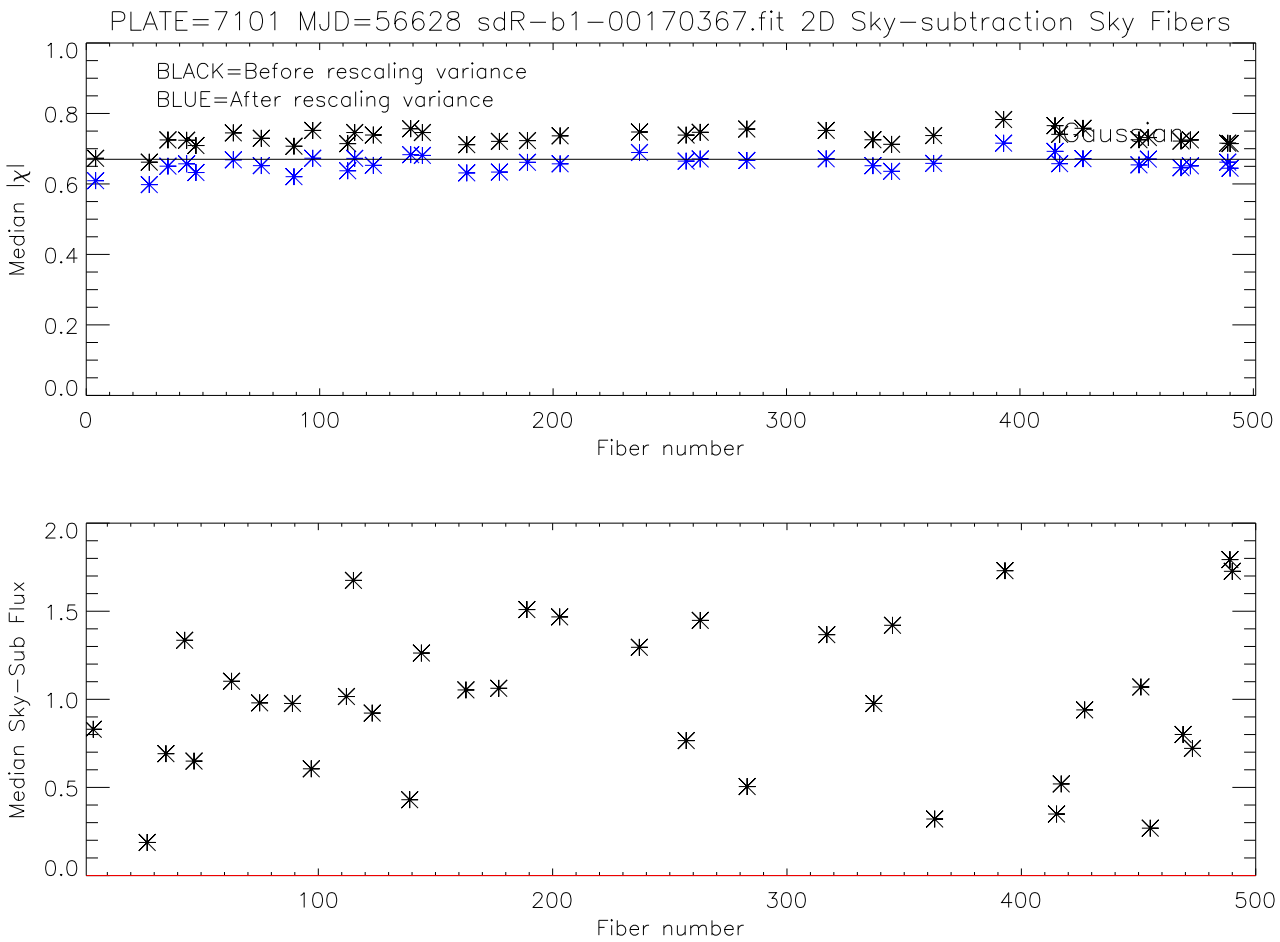

PLATE=7101 MJD=56628 sdR-b1-00170367.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number


PLATE=7101 MJD=56628 sdR-b1-00170367.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

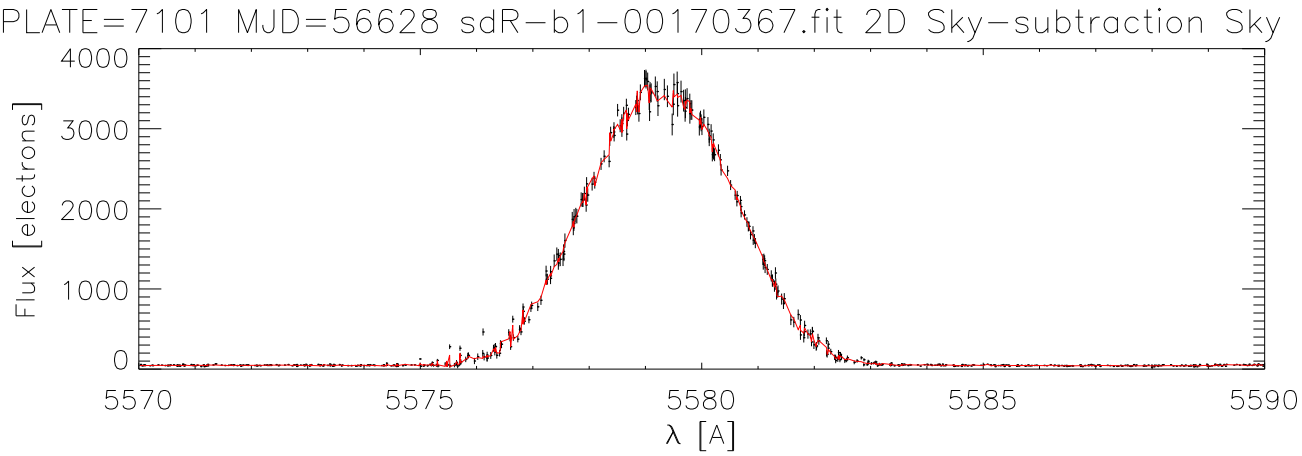

PLATE=7101 MJD=56628 sdR-b1-00170367.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

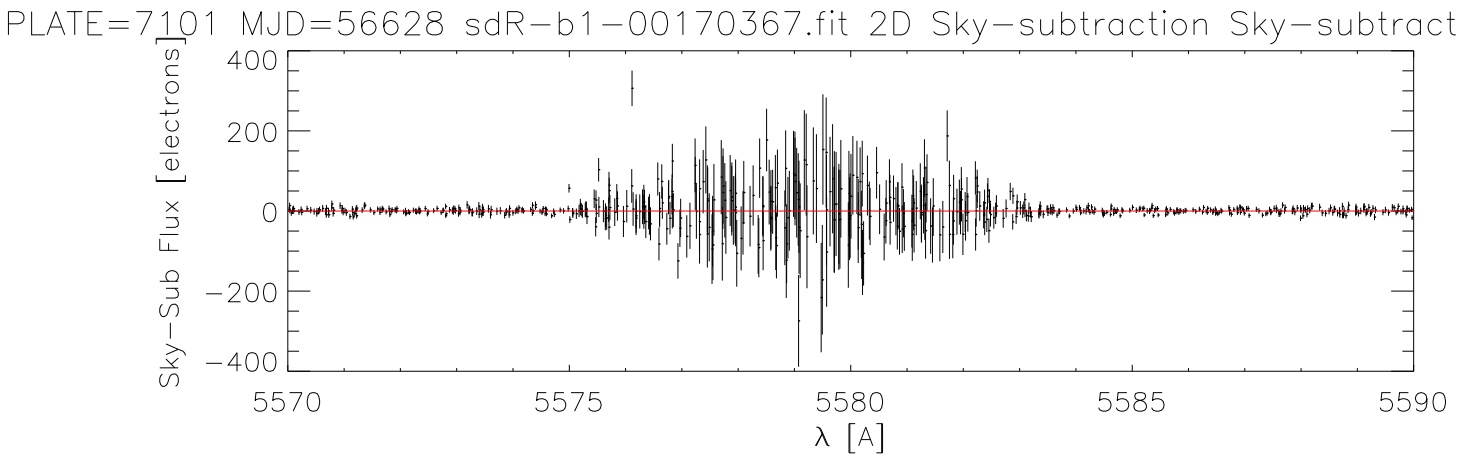
Number of sky fibers = 36



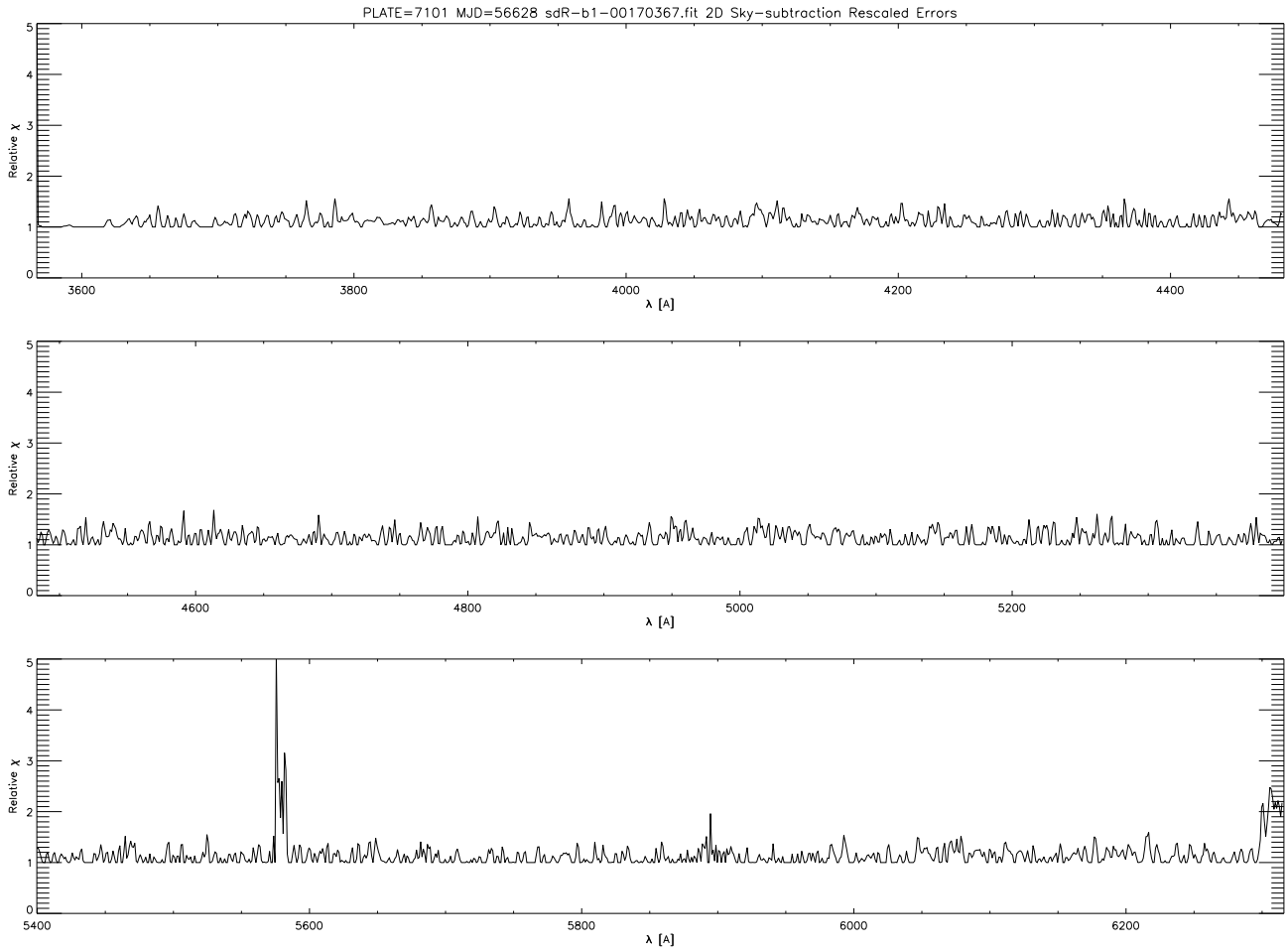

PLATE=7101 MJD=56628 sdR-b1-00170367.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Median |χ|
Fiber number
1.0
0.8
0.6
0.4
0.2
0.0
0
100
200
300
400
500

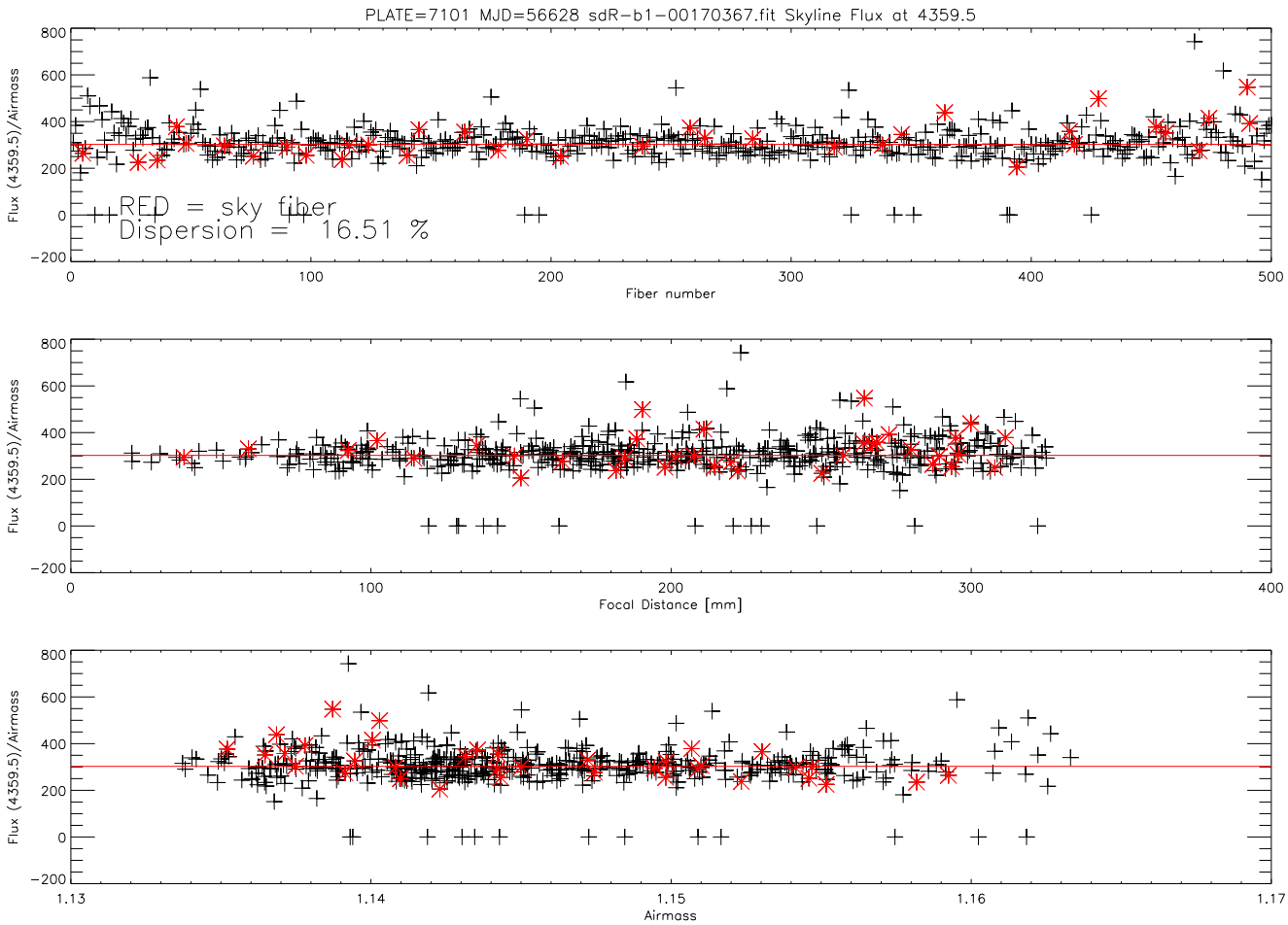
Median Sky-Sub Flux
Fiber number
2.0
1.5
1.0
0.5
0.0
100
200
300
400
500

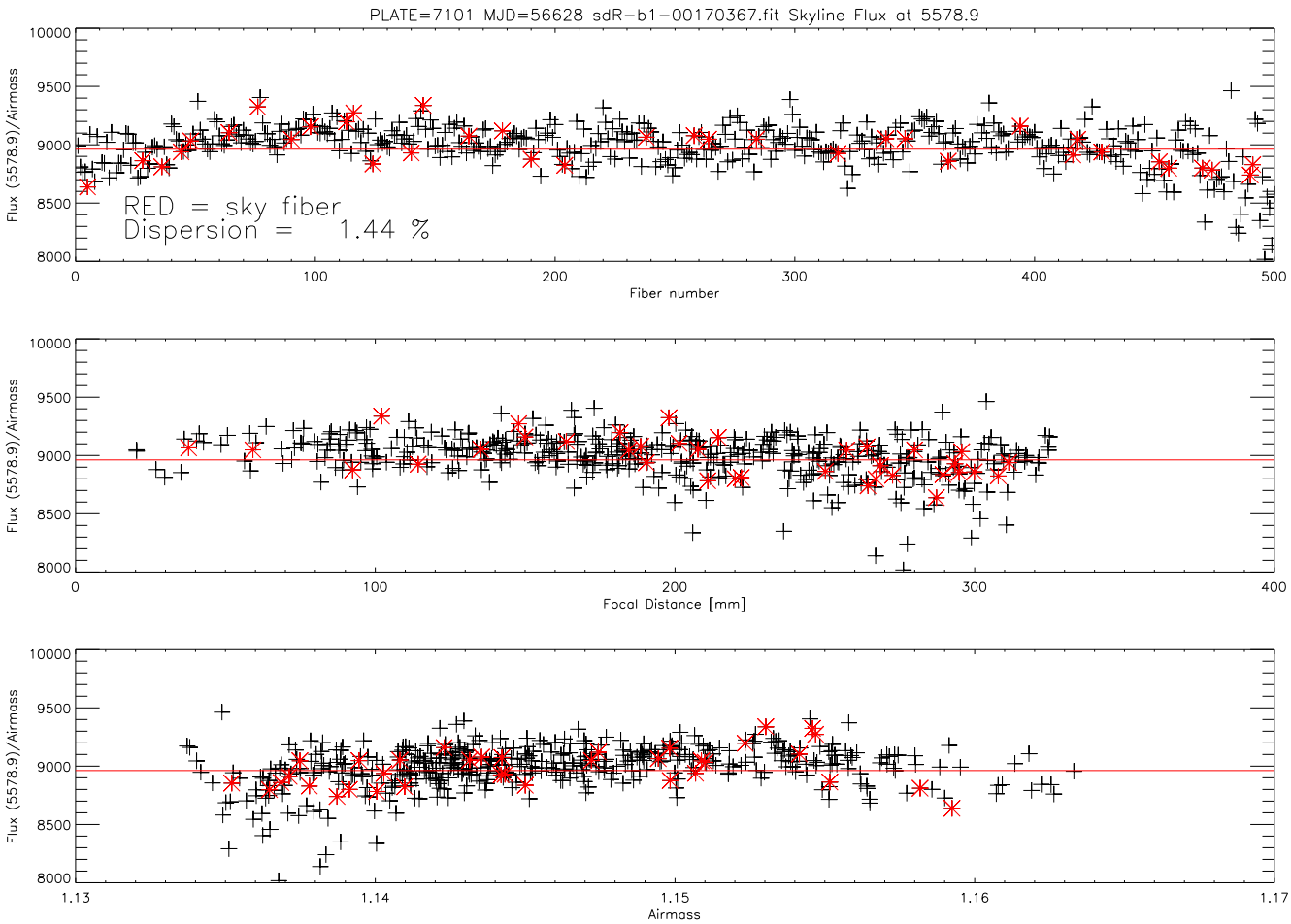

PLATE=7101 MJD=56628 sdR-b1-00170367.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

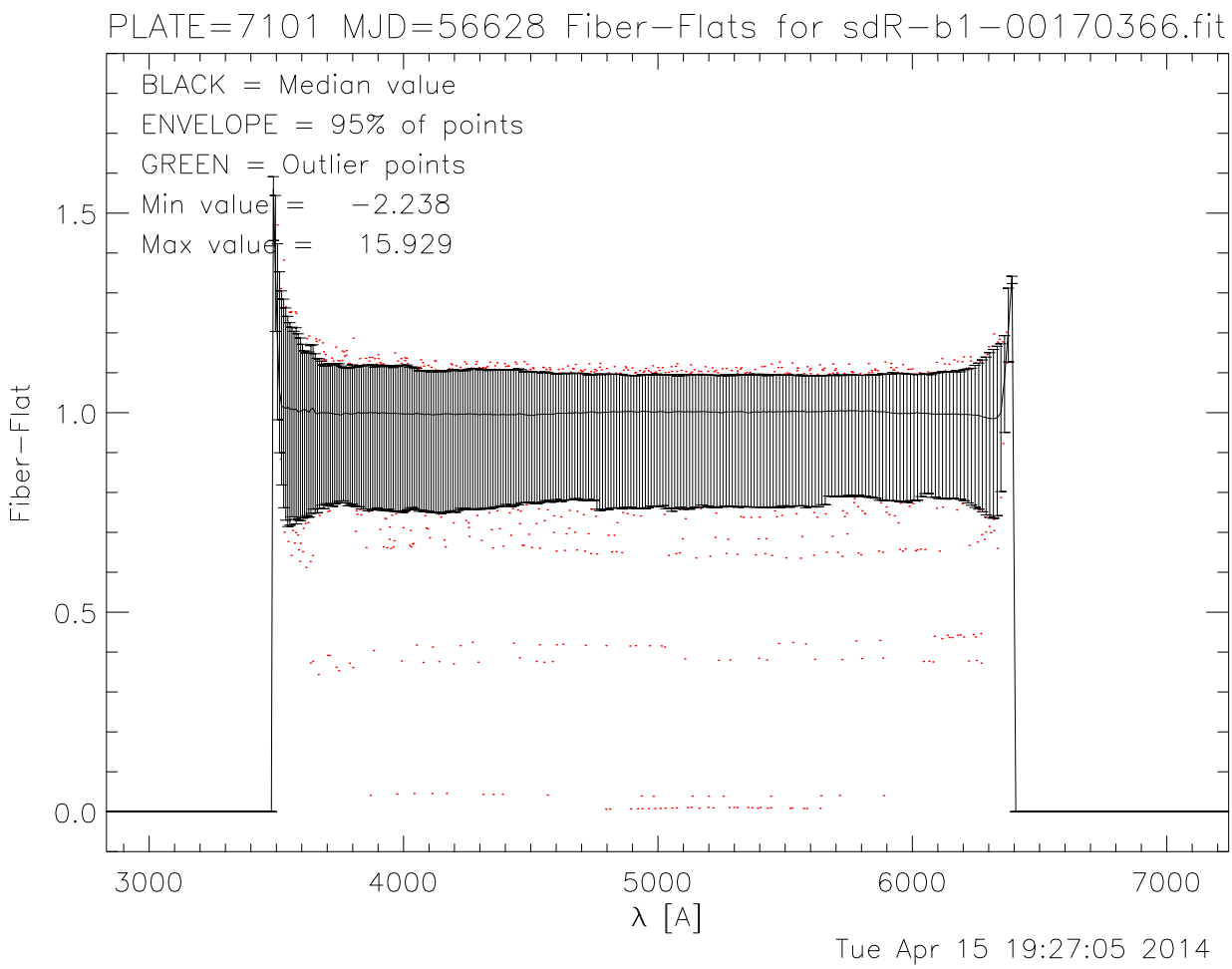

PLATE=7101 MJD=56628 sdR-b1-00170367.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

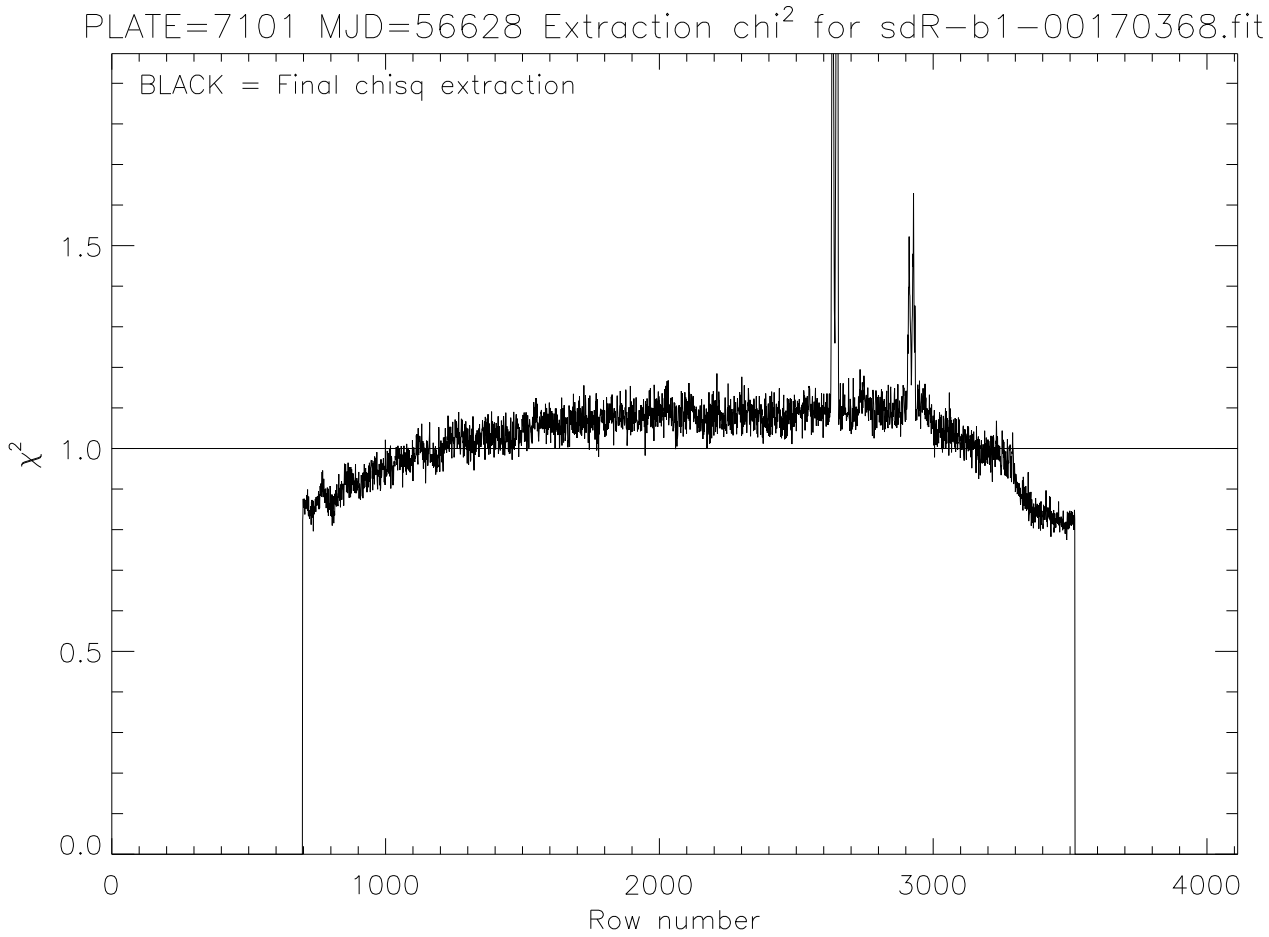
Number of sky fibers = 36

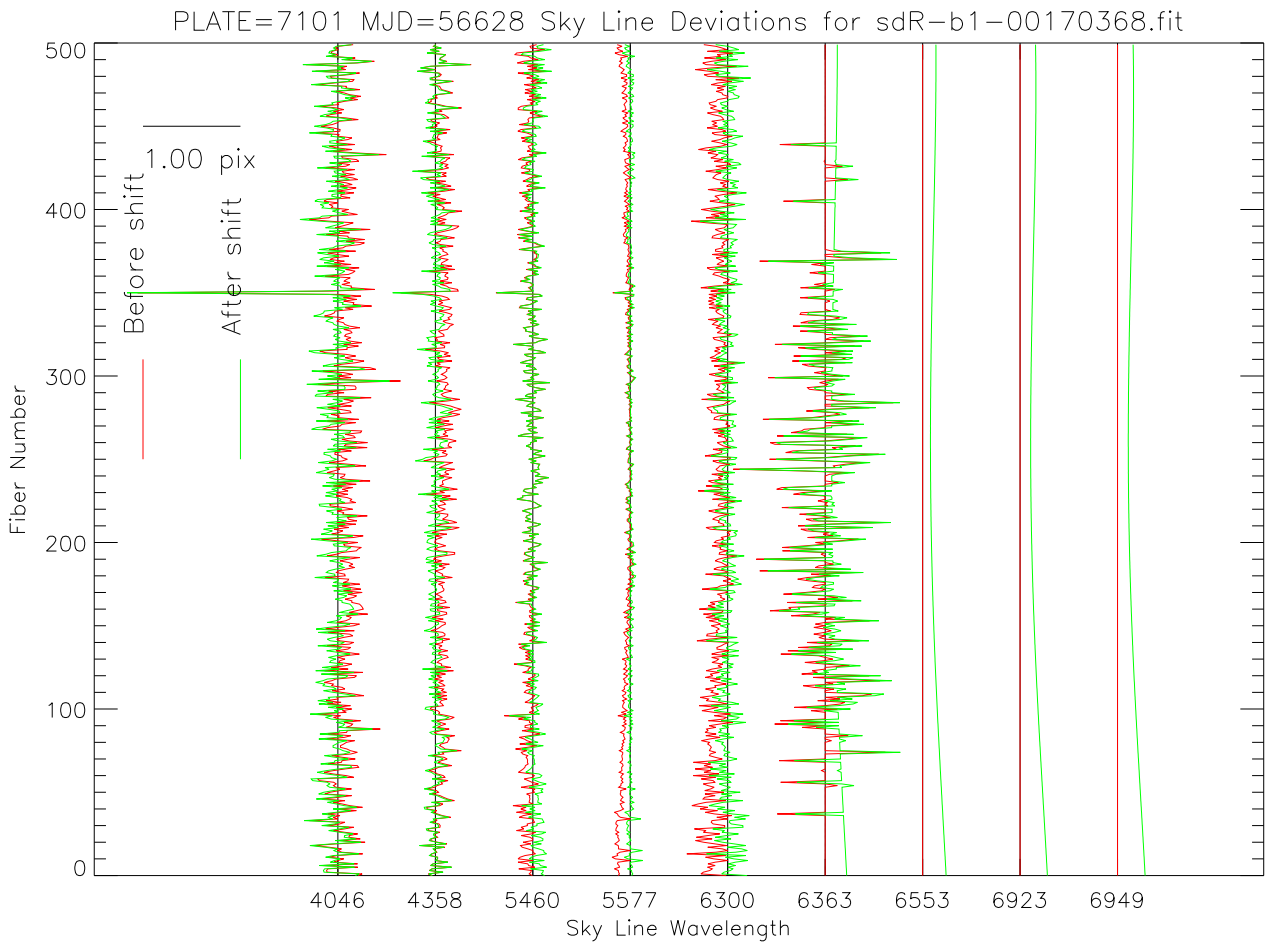


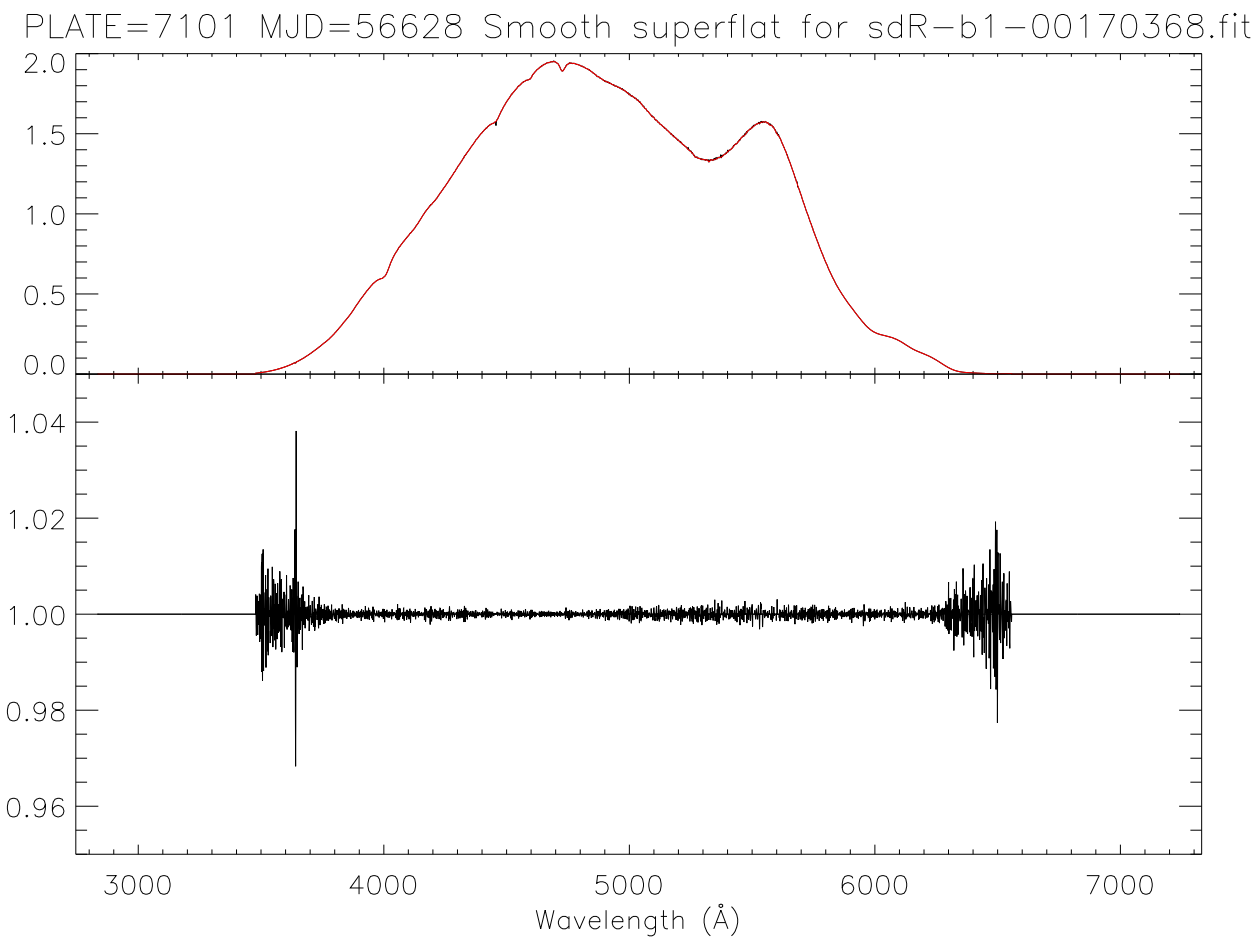

PLATE=7101 MJD=56628 sdR-b1-00170367.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 16.51 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

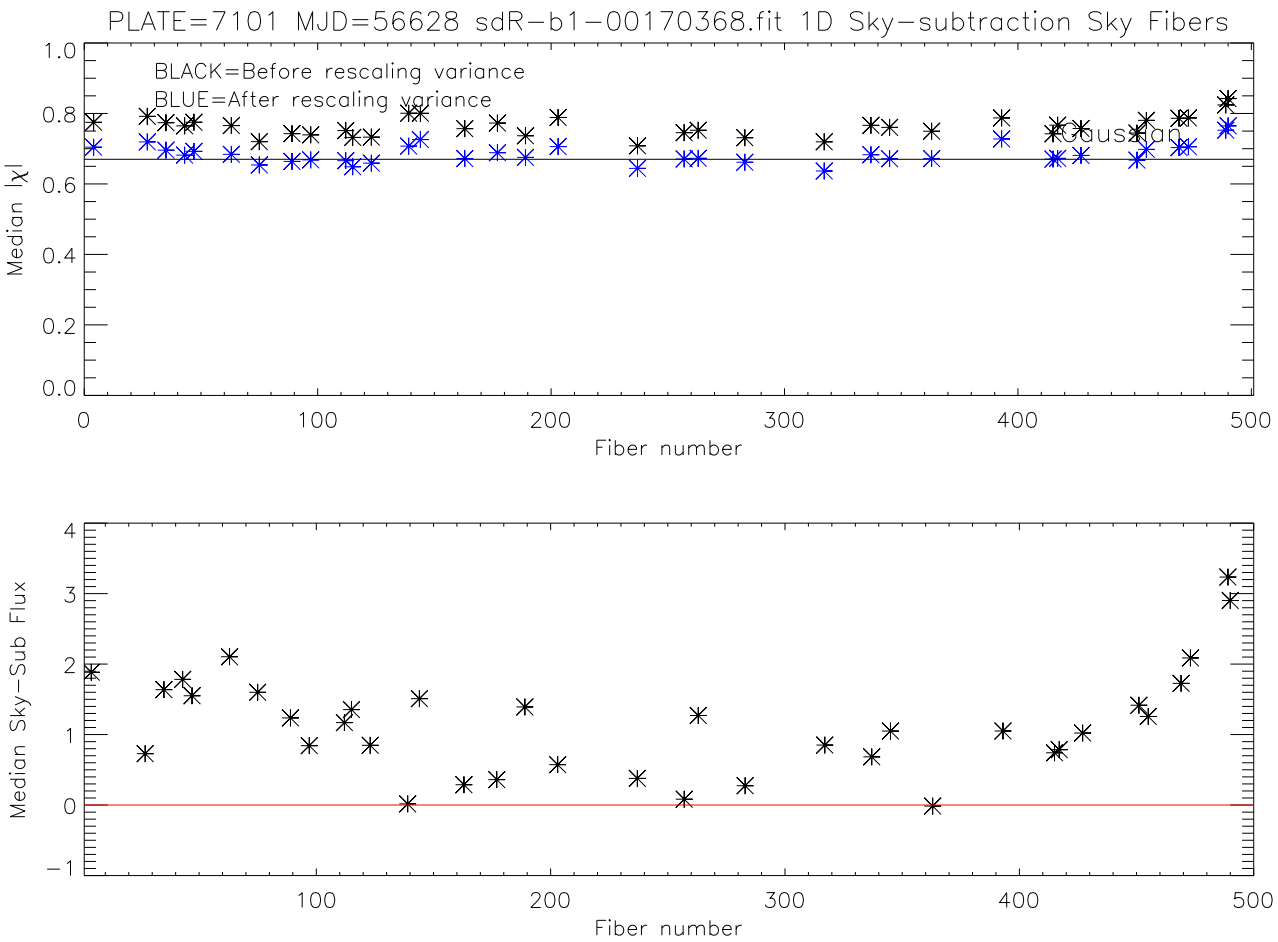

PLATE=7101 MJD=56628 sdR-b1-00170367.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.44 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass


PLATE=7101 MJD=56628 Fiber-Flats for sdR-b1-00170366.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = -2.238
Max value = 15.929
Fiber-Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Tue Apr 15 19:27:05 2014

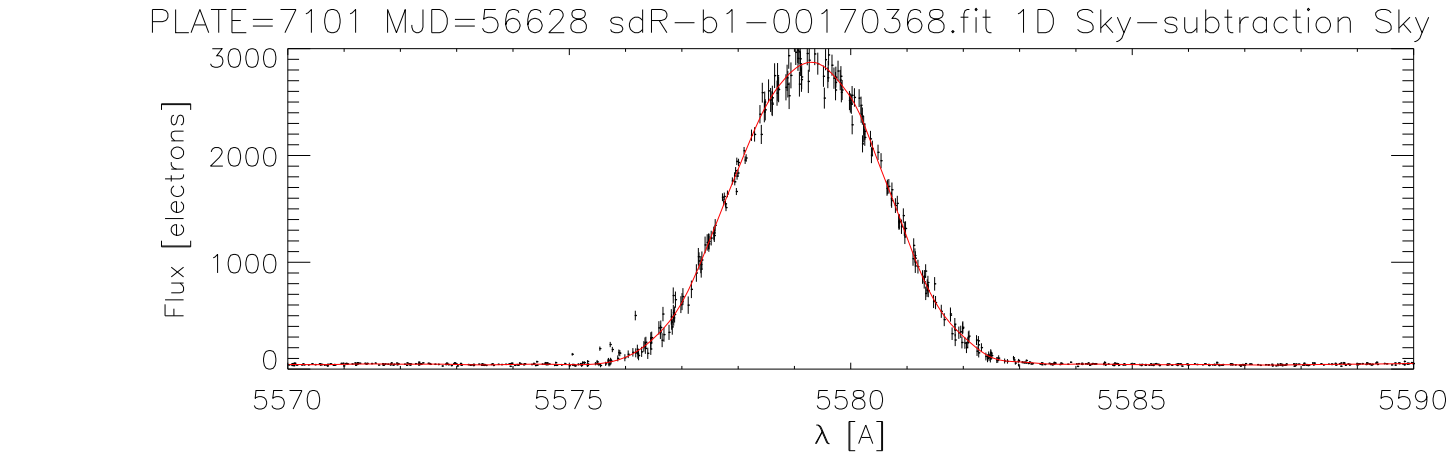

PLATE=7101 MJD=56628 Extraction chi^2 for sdR−b1−00170368.fit
BLACK = Final chisq extraction
χ^2
1.5
1.0
0.5
0.0
0
1000
2000
3000
4000
Row number

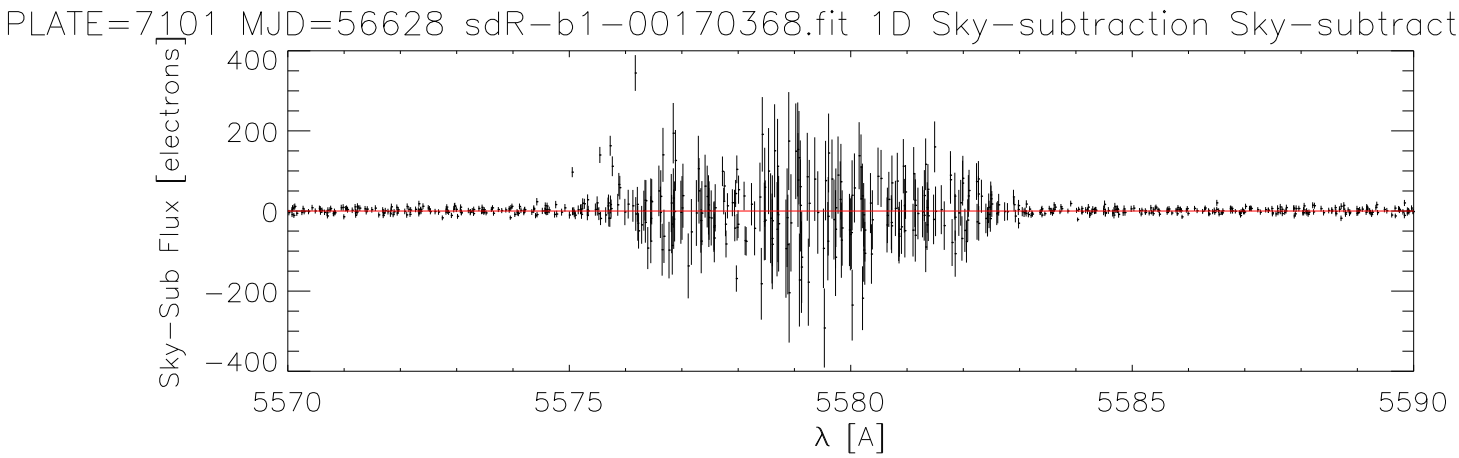

PLATE=7101 MJD=56628 Sky Line Deviations for sdR-b1-00170368.fit
1.00 pix
Before shift
After shift
Fiber Number
0
100
200
300
400
500
4046
4358
5460
5577
6300
6363
6553
6923
6949
Sky Line Wavelength


PLATE=7101 MJD=56628 Smooth superflat for sdR-b1-00170368.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)

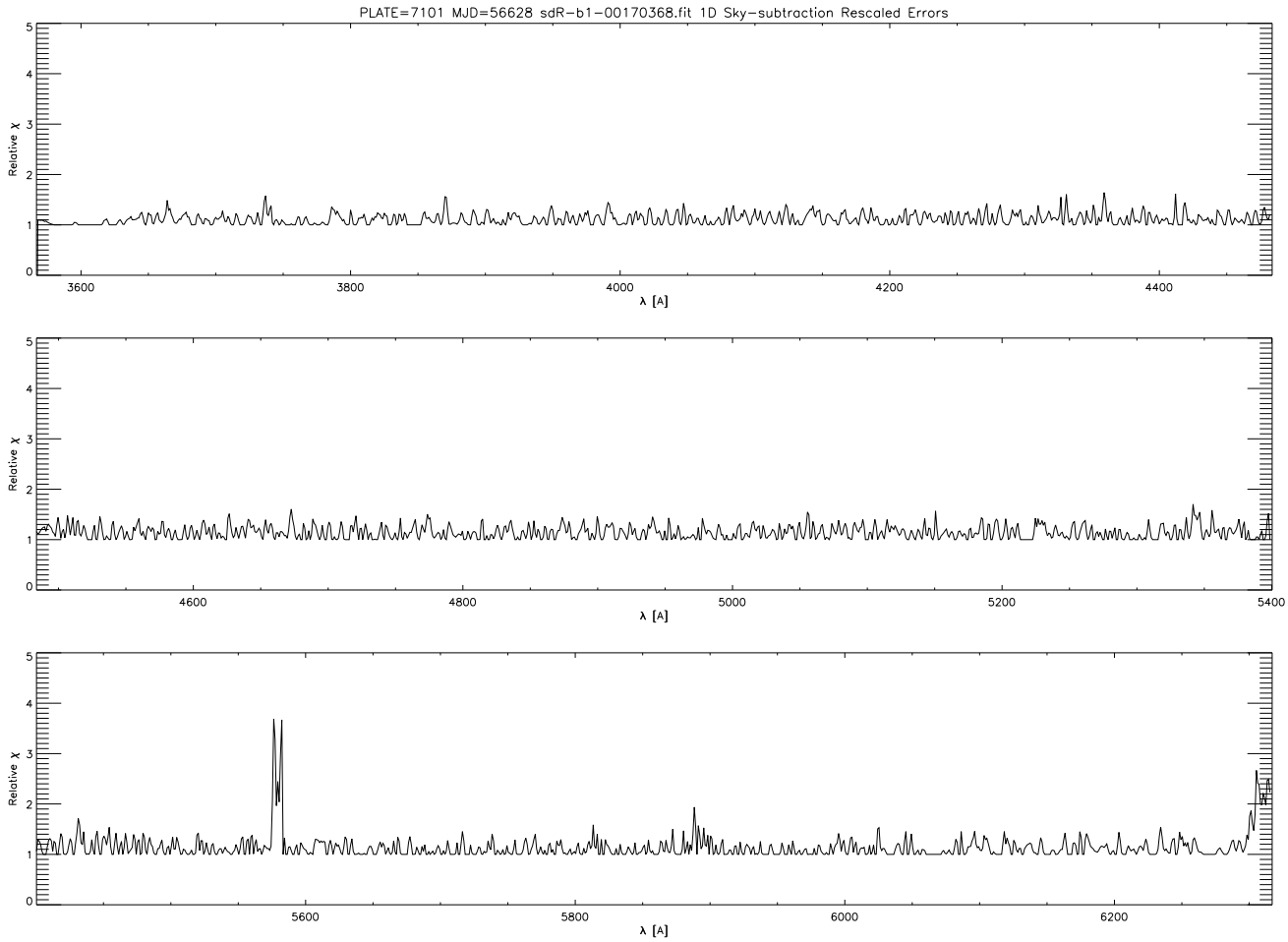

PLATE=7101 MJD=56628 sdR-b1-00170368.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number

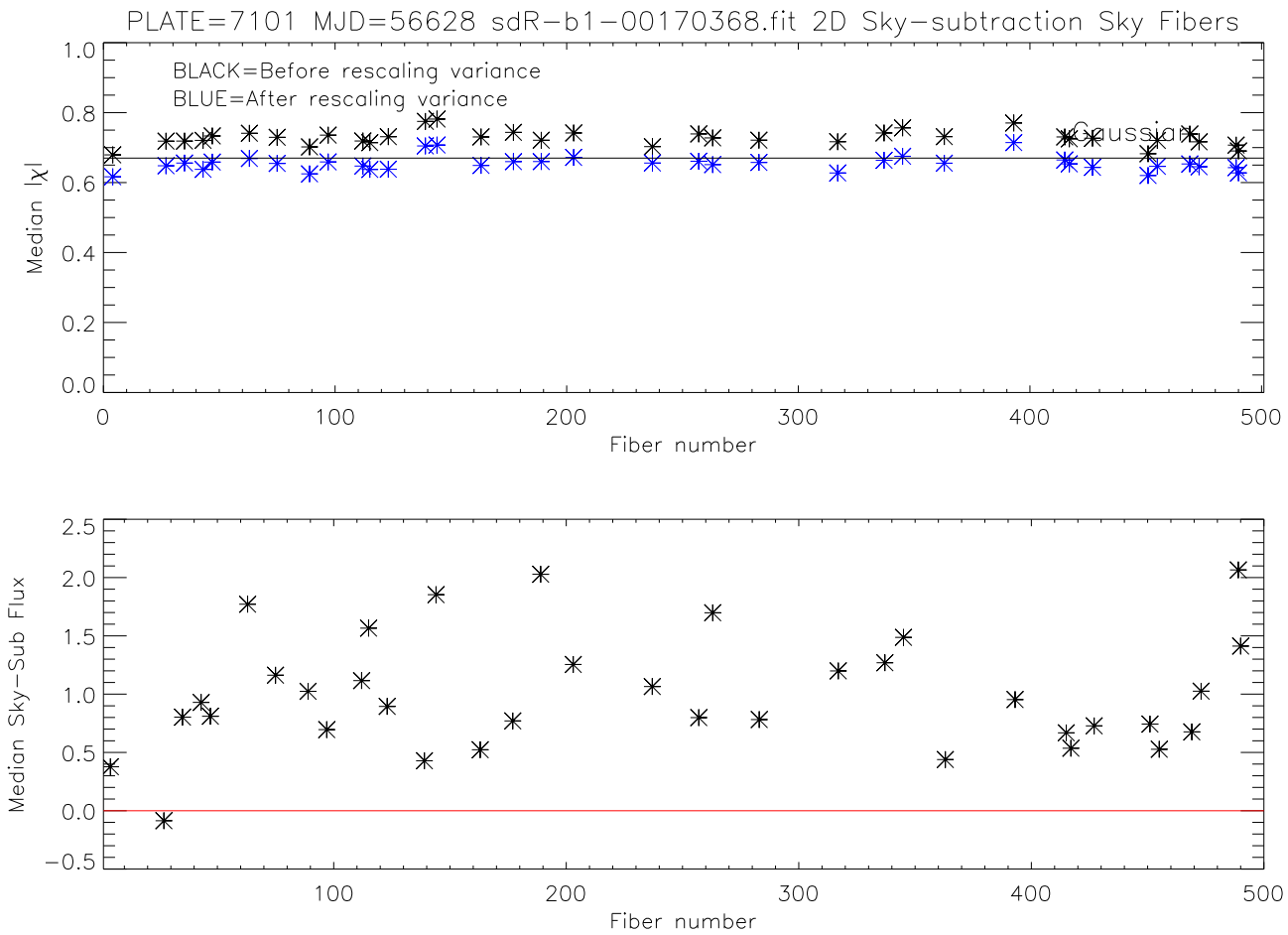
Median Sky-Sub Flux
Fiber number

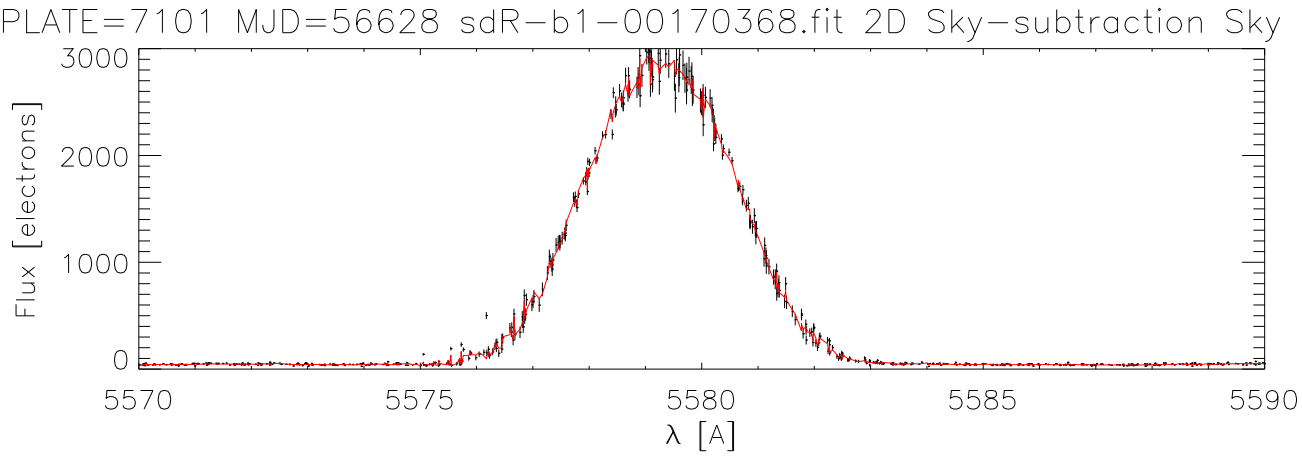

PLATE=7101 MJD=56628 sdR-b1-00170368.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

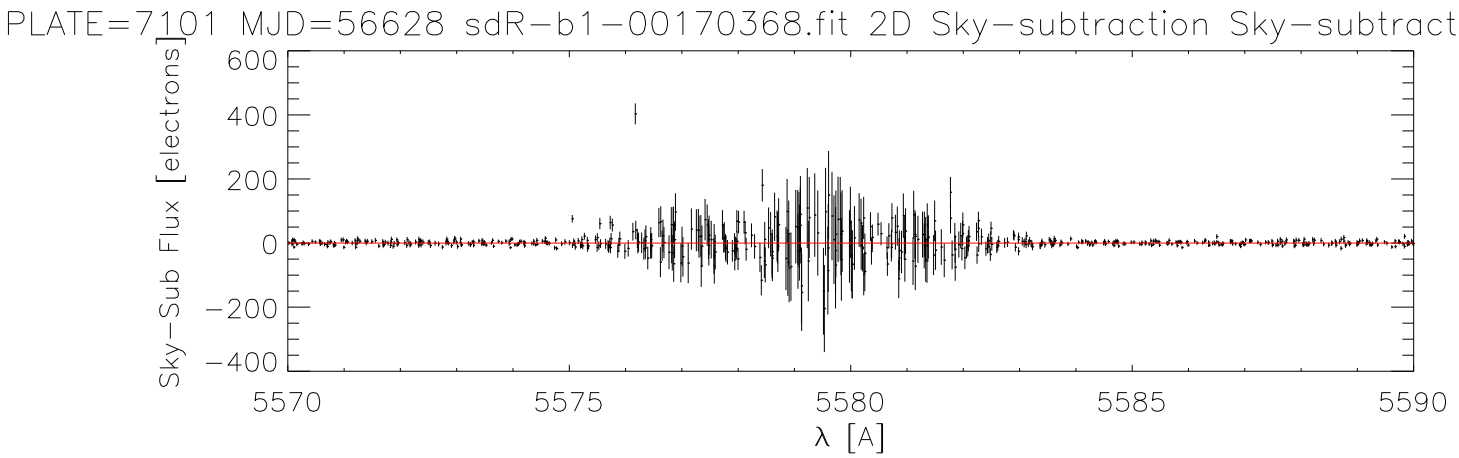

PLATE=7101 MJD=56628 sdR-b1-00170368.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 36

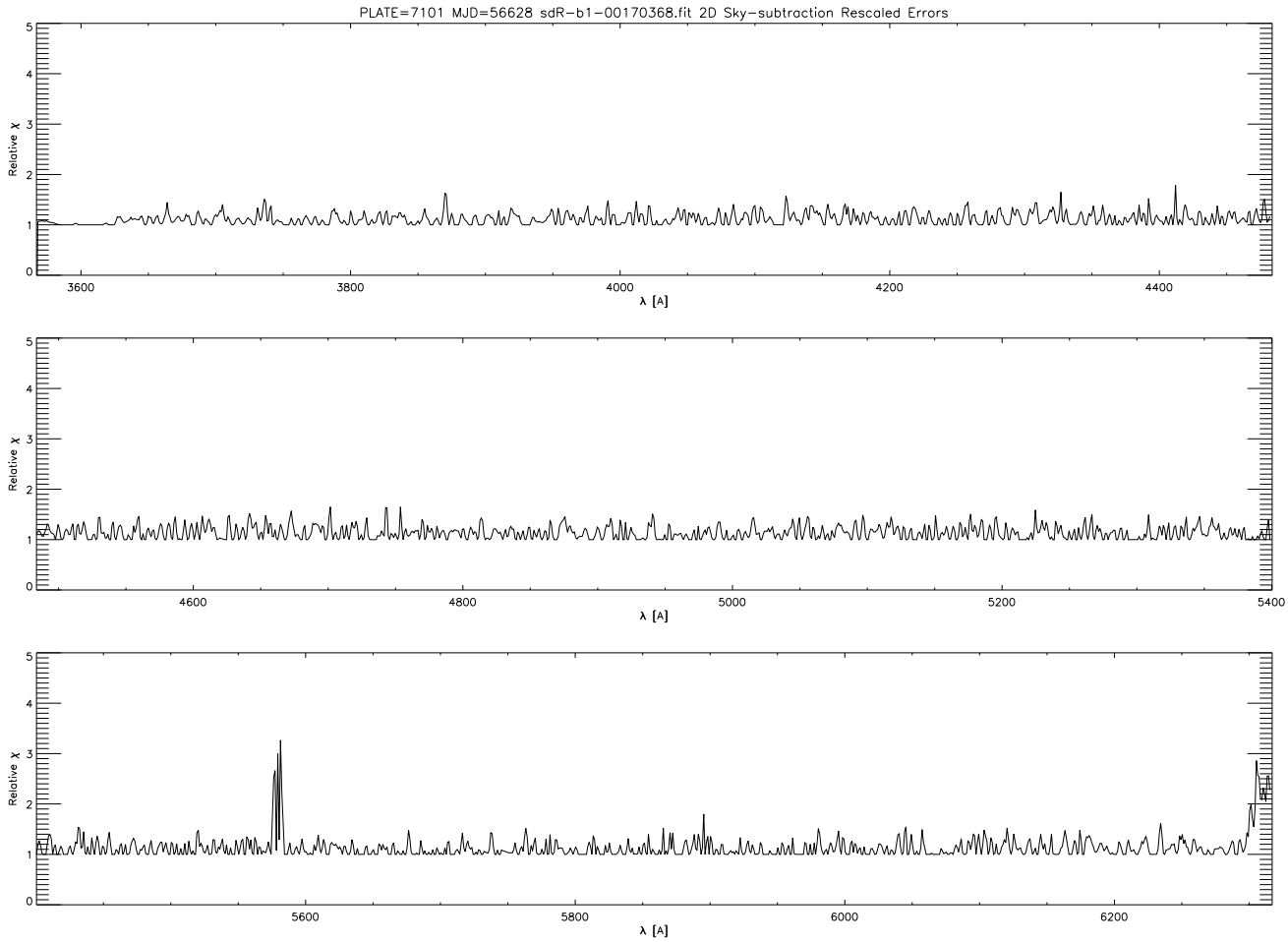


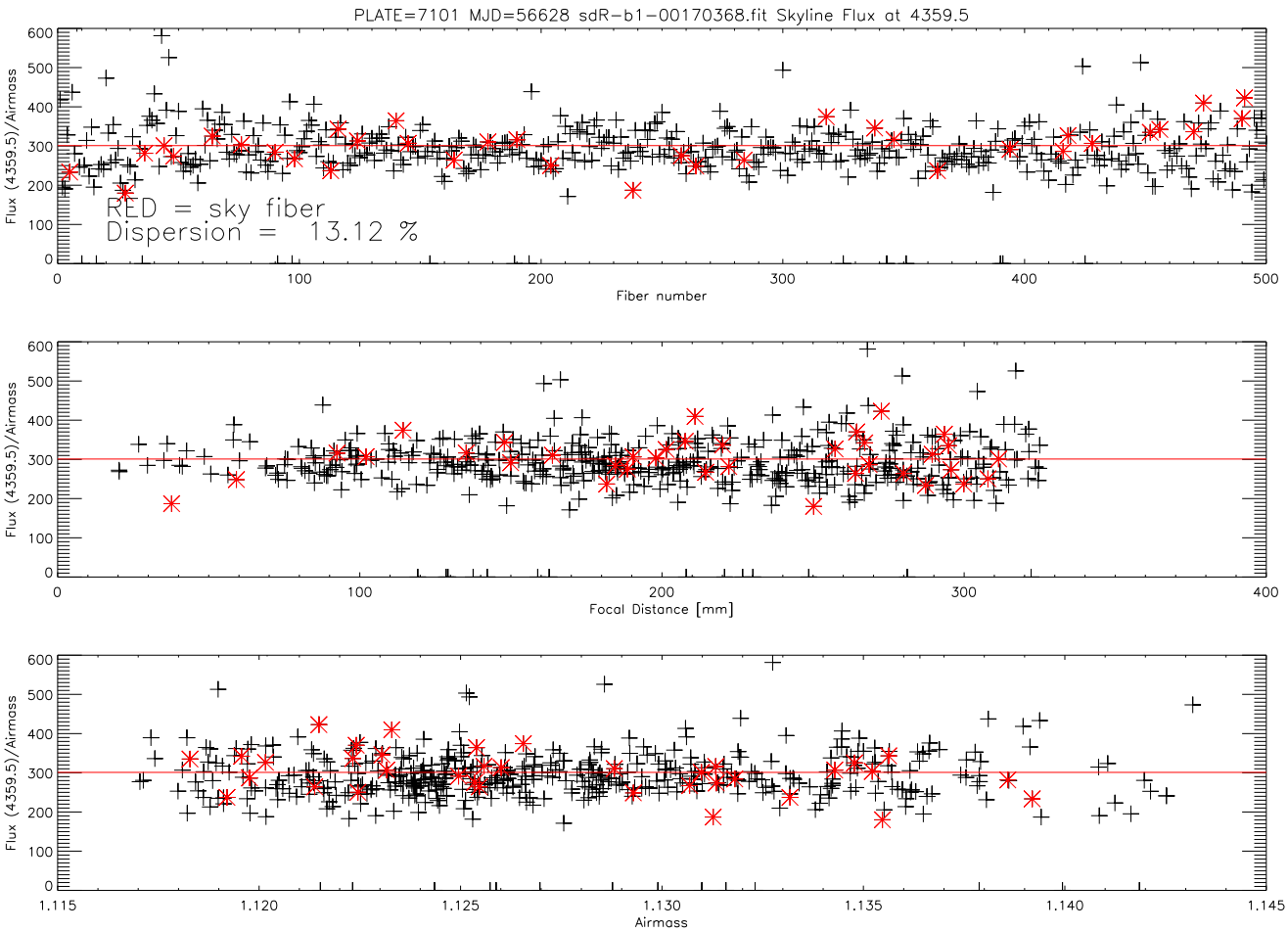

PLATE=7101 MJD=56628 sdR-b1-00170368.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

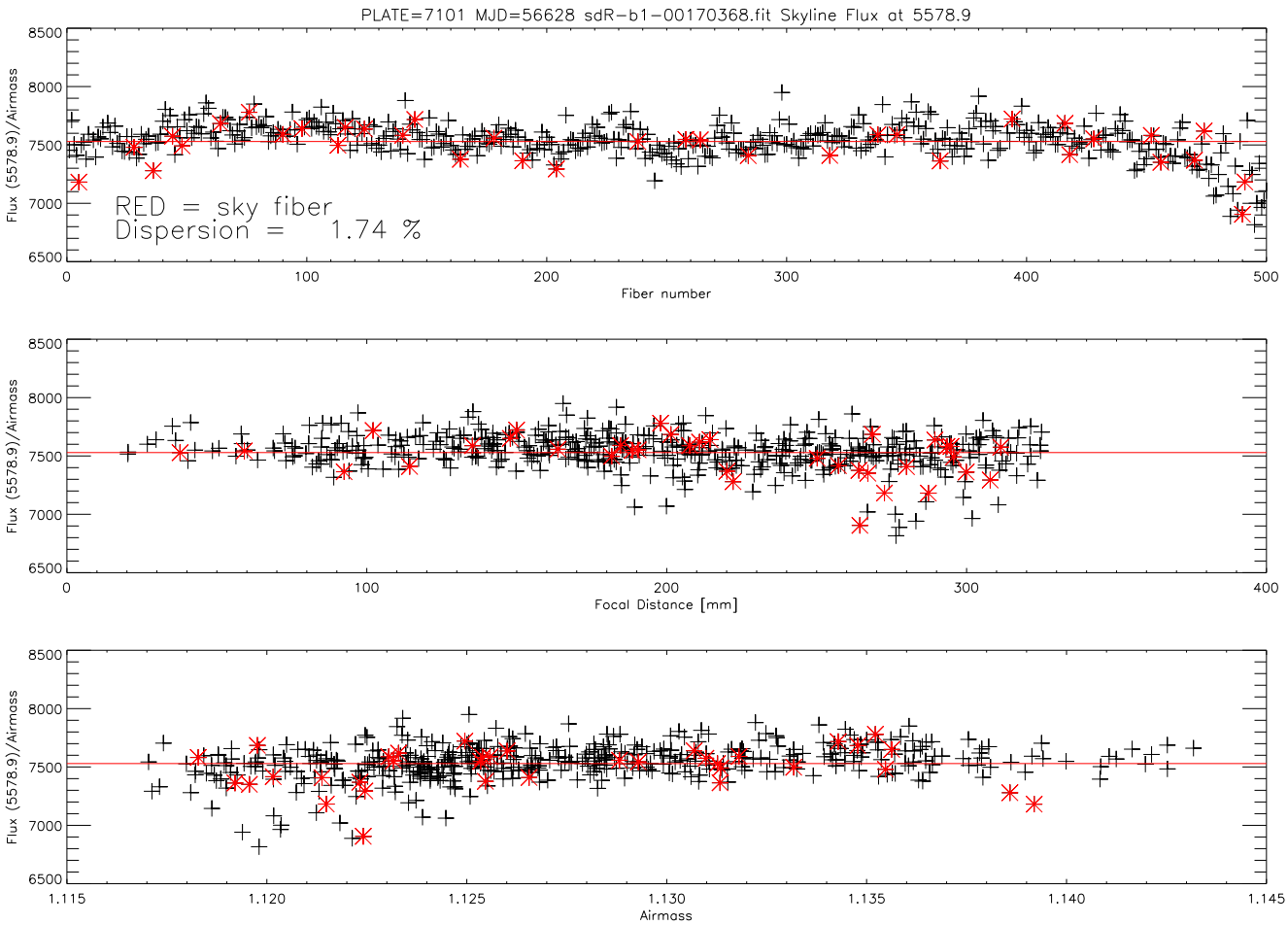

PLATE=7101 MJD=56628 sdR-b1-00170368.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

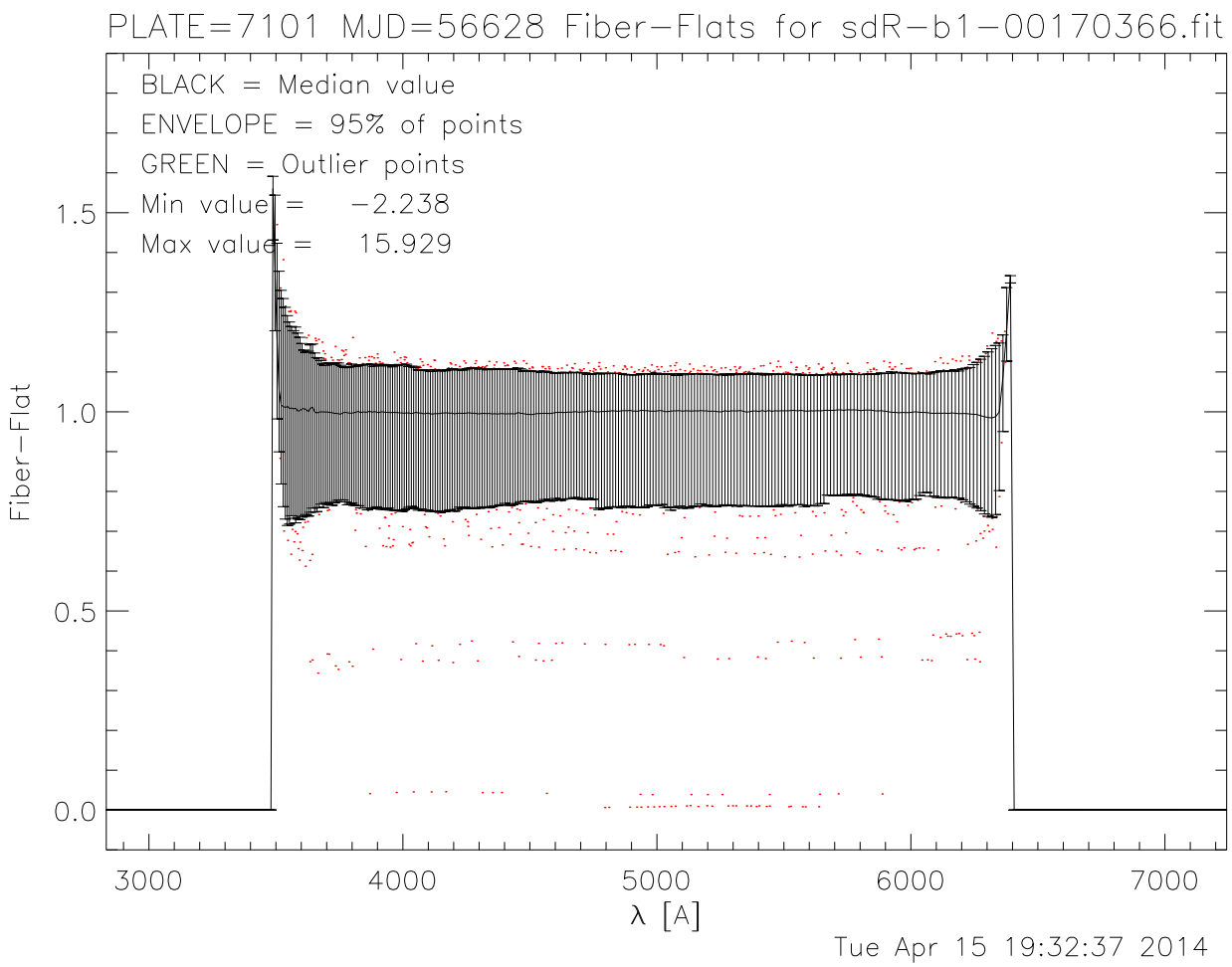

PLATE=7101 MJD=56628 sdR-b1-00170368.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

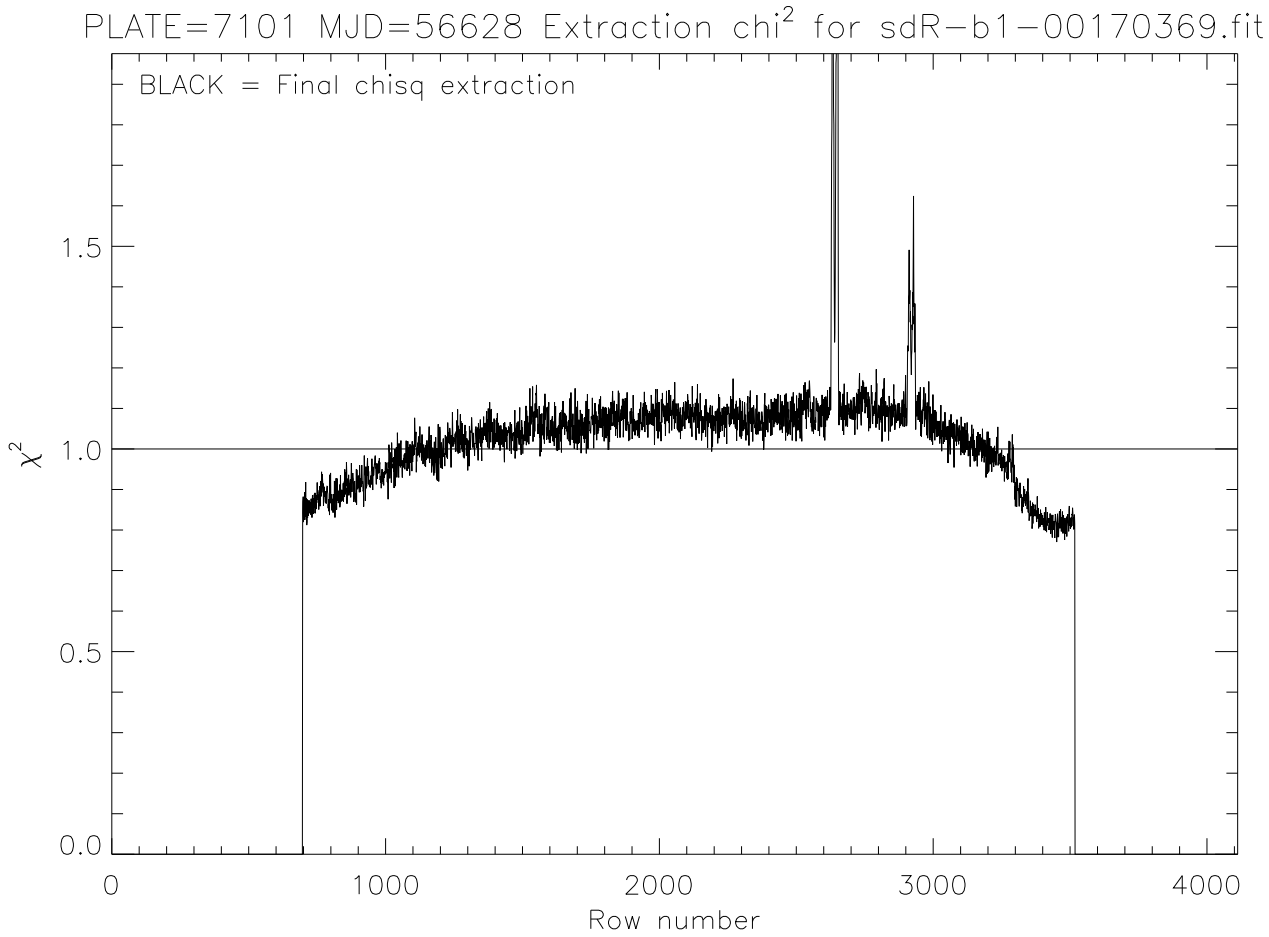
Number of sky fibers = 36

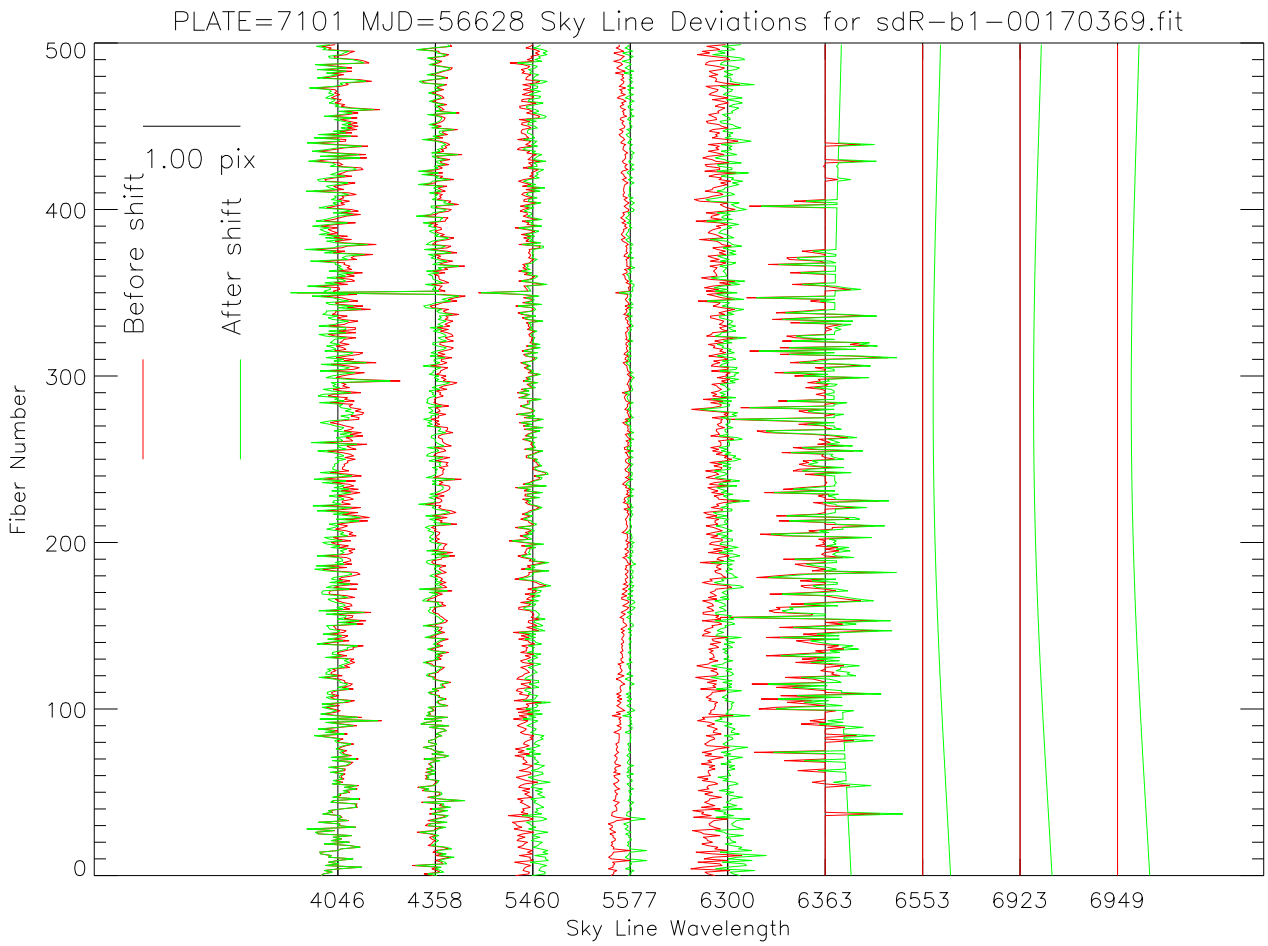


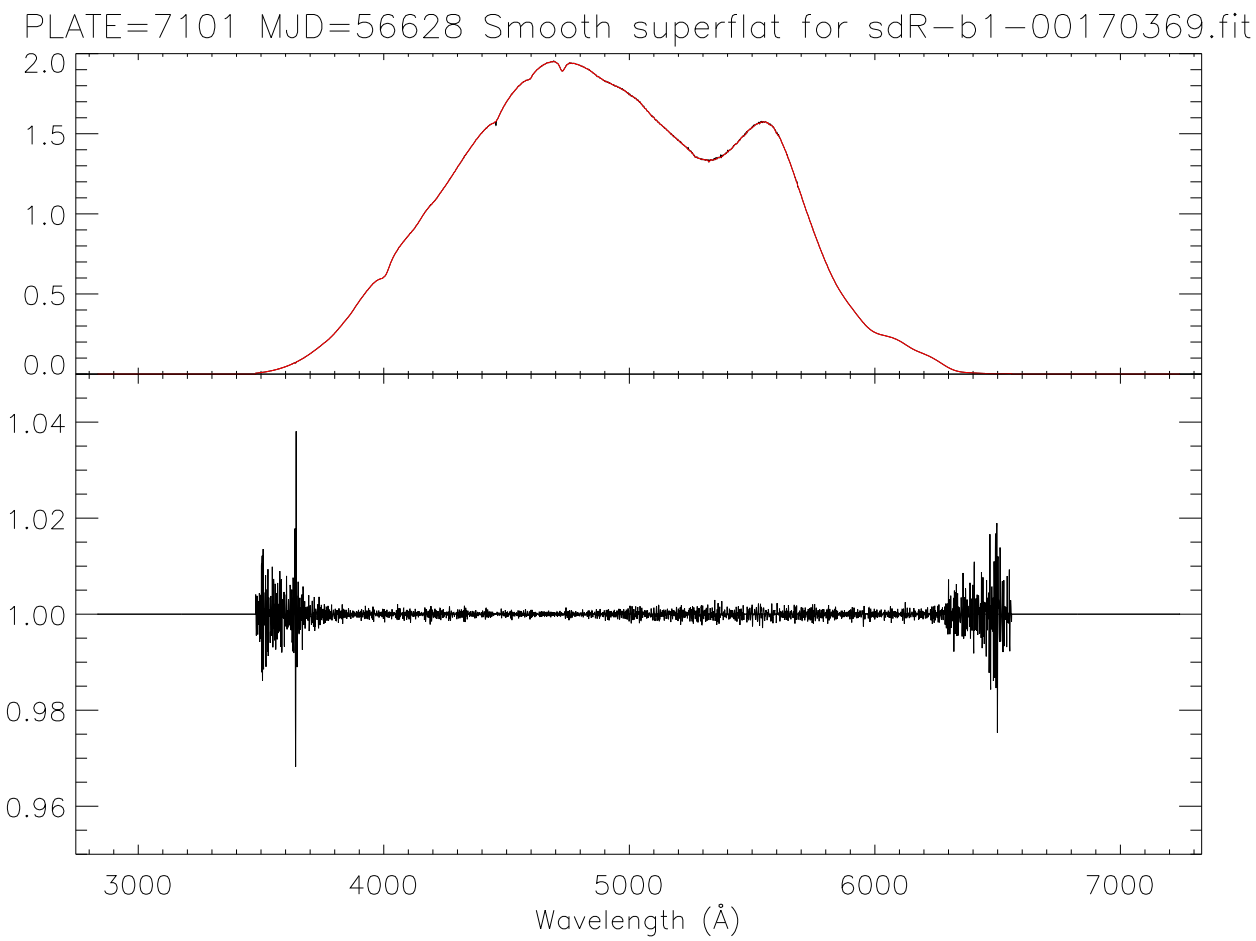

PLATE=7101 MJD=56628 sdR-b1-00170368.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 13.12 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

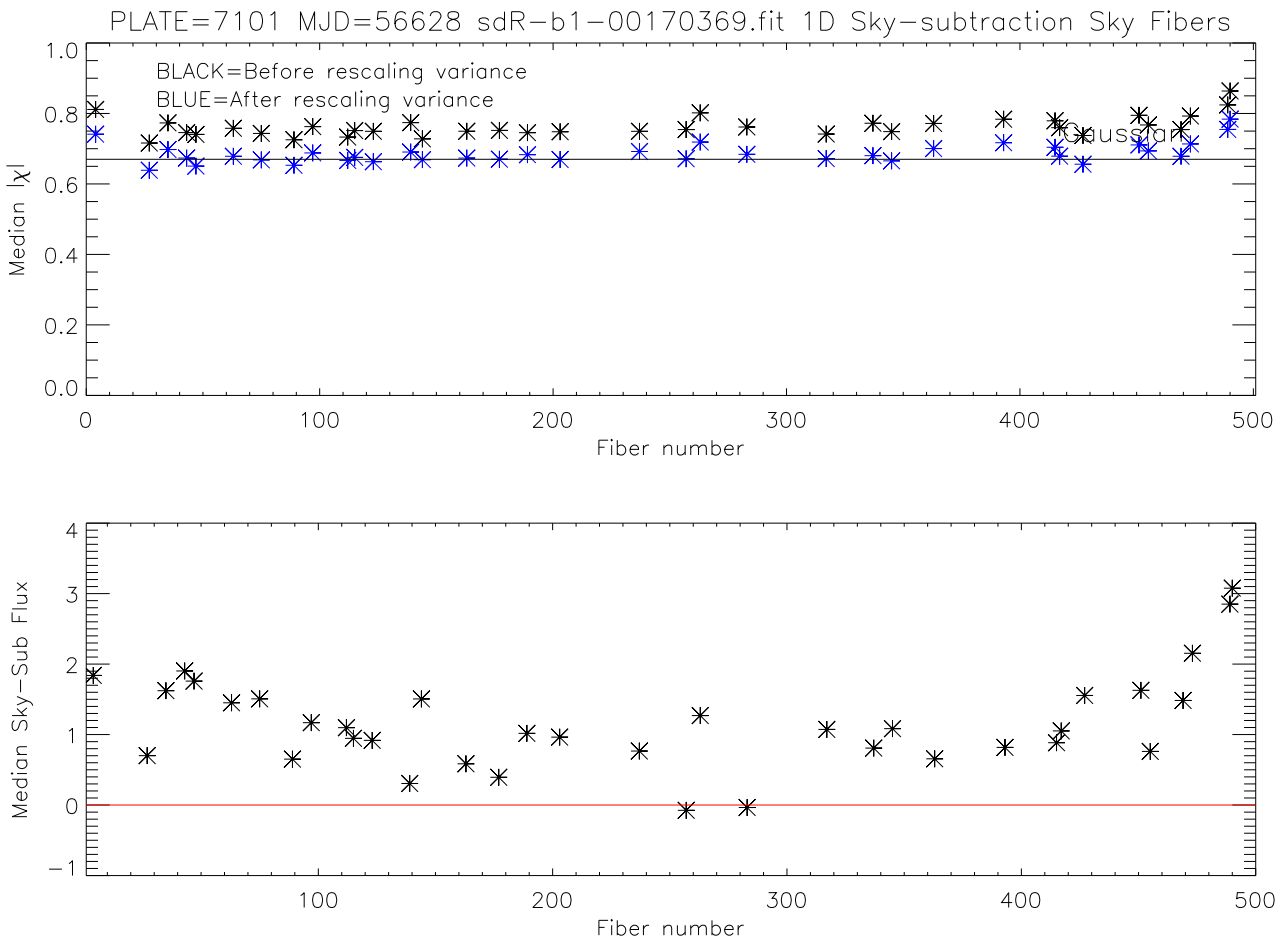

PLATE=7101 MJD=56628 sdR-b1-00170368.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.74 %
Fiber number
Focal Distance [mm]
Airmass

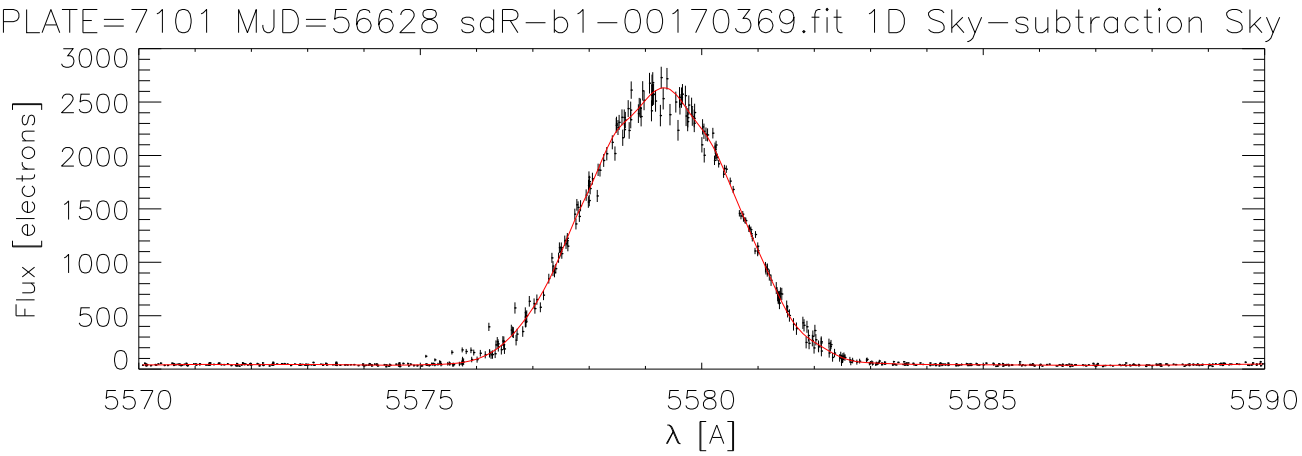

PLATE=7101 MJD=56628 Fiber-Flats for sdR-b1-00170366.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = -2.238
Max value = 15.929
Fiber-Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Tue Apr 15 19:32:37 2014

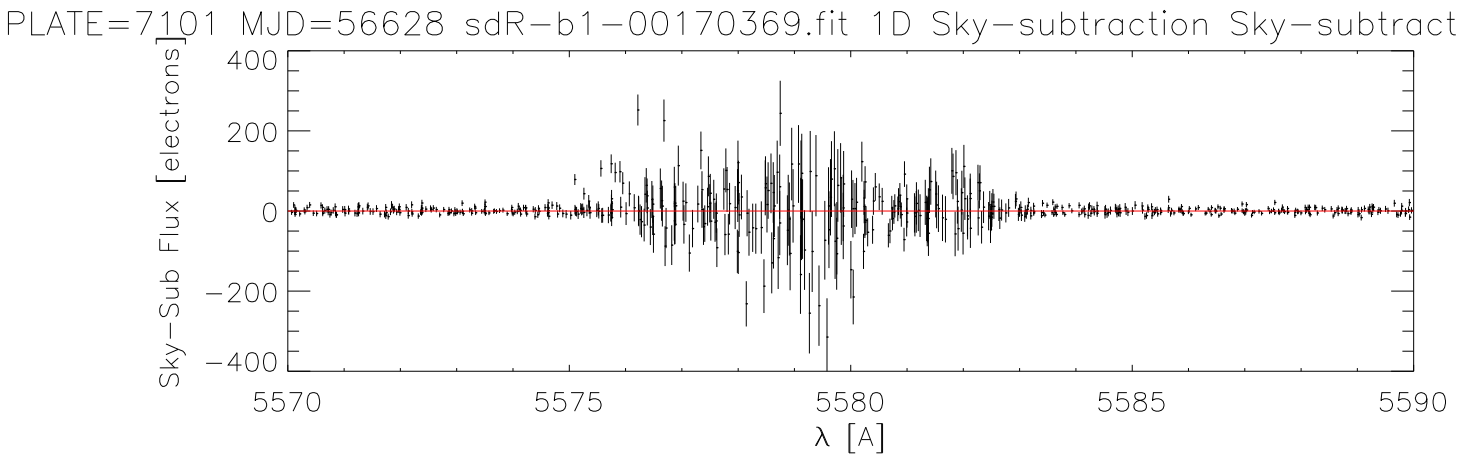

PLATE=7101 MJD=56628 Extraction chi^2 for sdR−b1−00170369.fit
BLACK = Final chisq extraction
χ^2
1.5
1.0
0.5
0.0
0
1000
2000
3000
4000
Row number


PLATE=7101 MJD=56628 Sky Line Deviations for sdR-b1-00170369.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

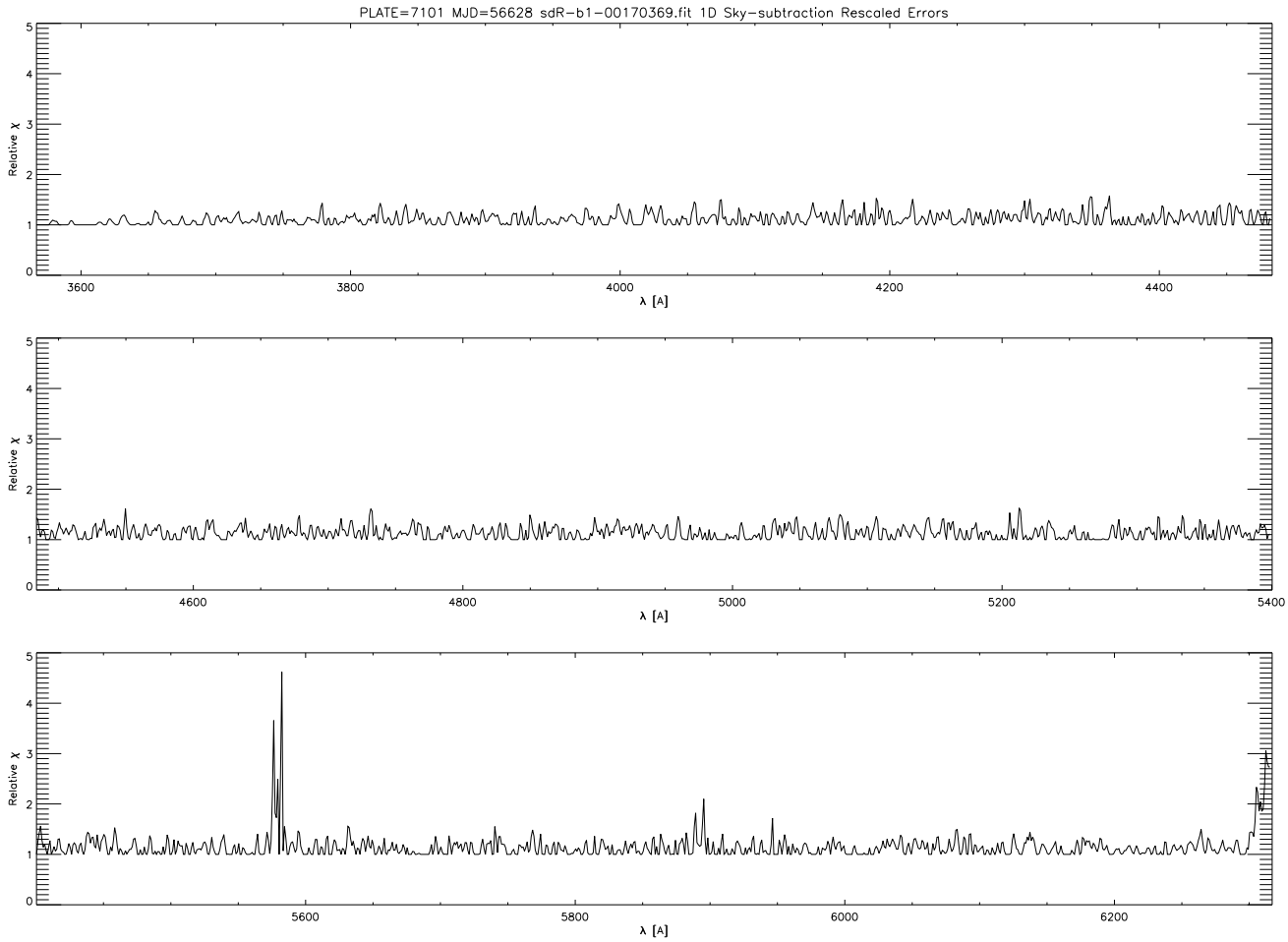

PLATE=7101 MJD=56628 Smooth superflat for sdR-b1-00170369.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

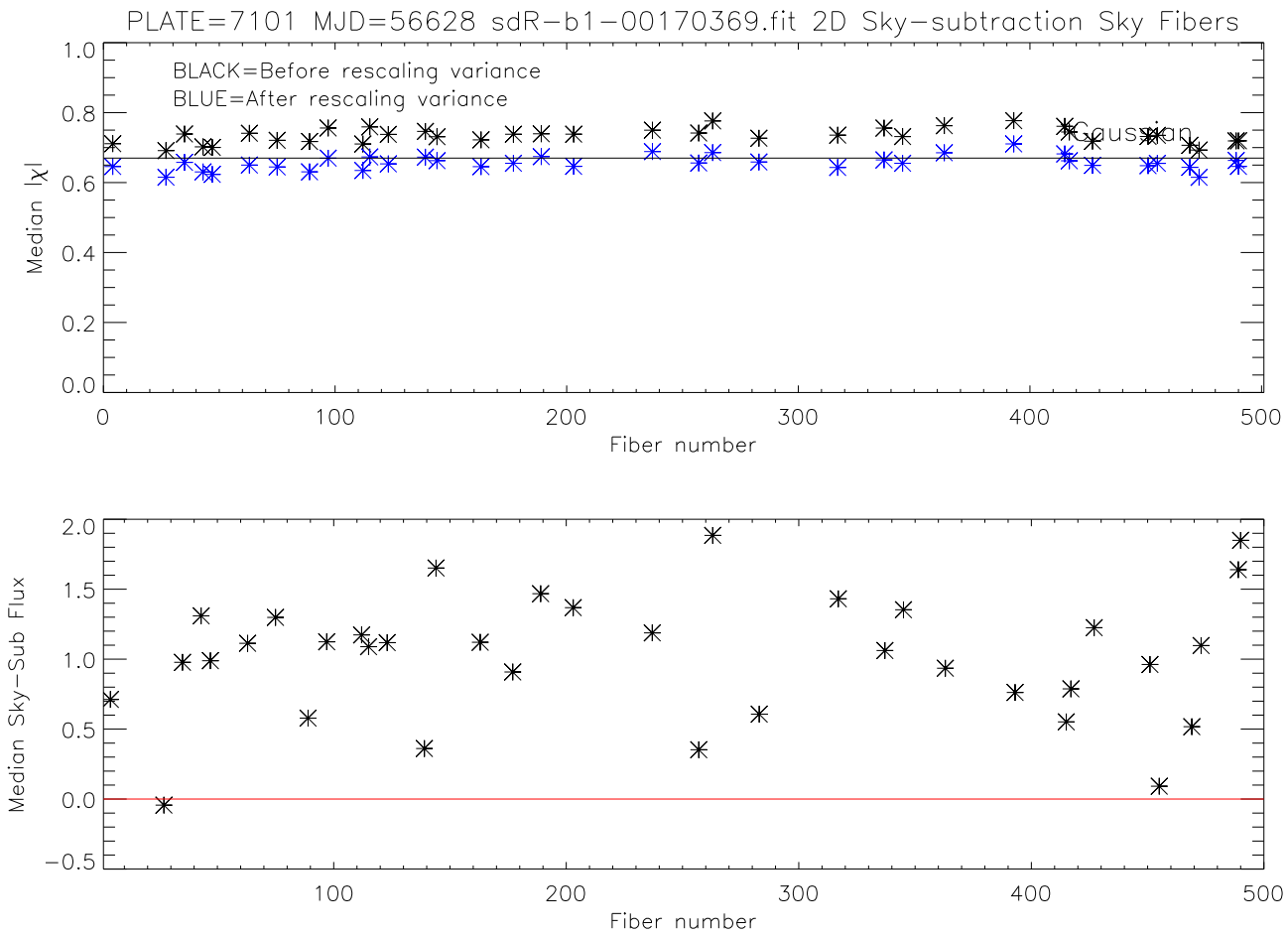

PLATE=7101 MJD=56628 sdR-b1-00170369.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

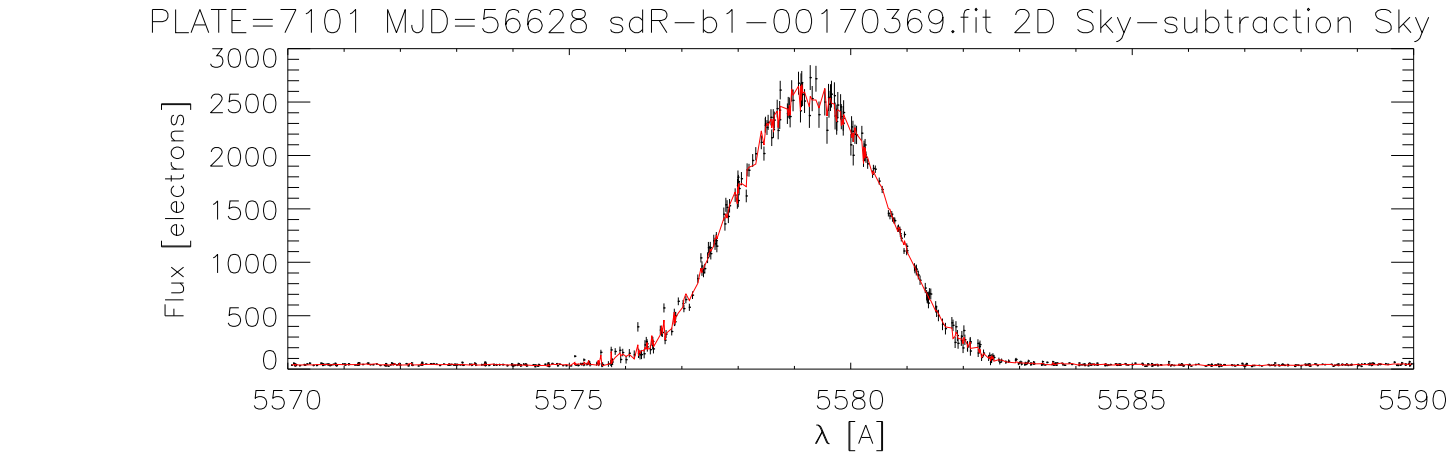

PLATE=7101 MJD=56628 sdR-b1-00170369.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

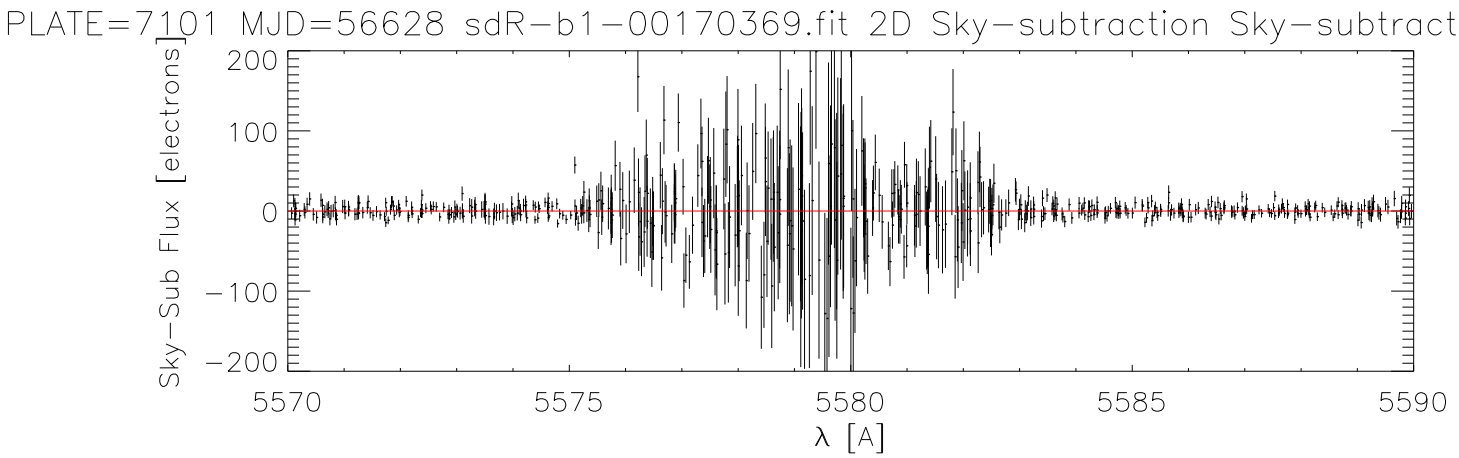

PLATE=7101 MJD=56628 sdR-b1-00170369.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 36

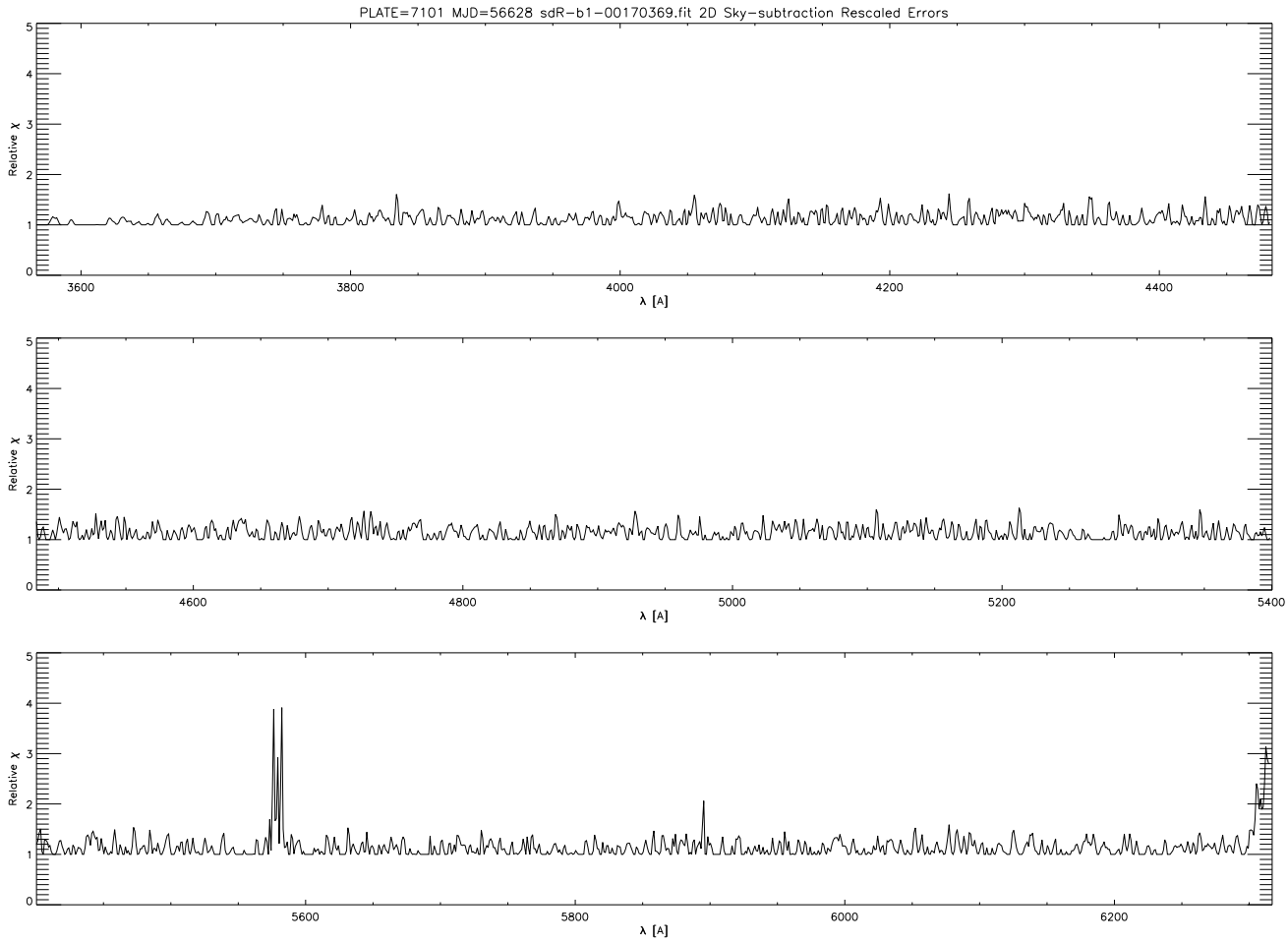


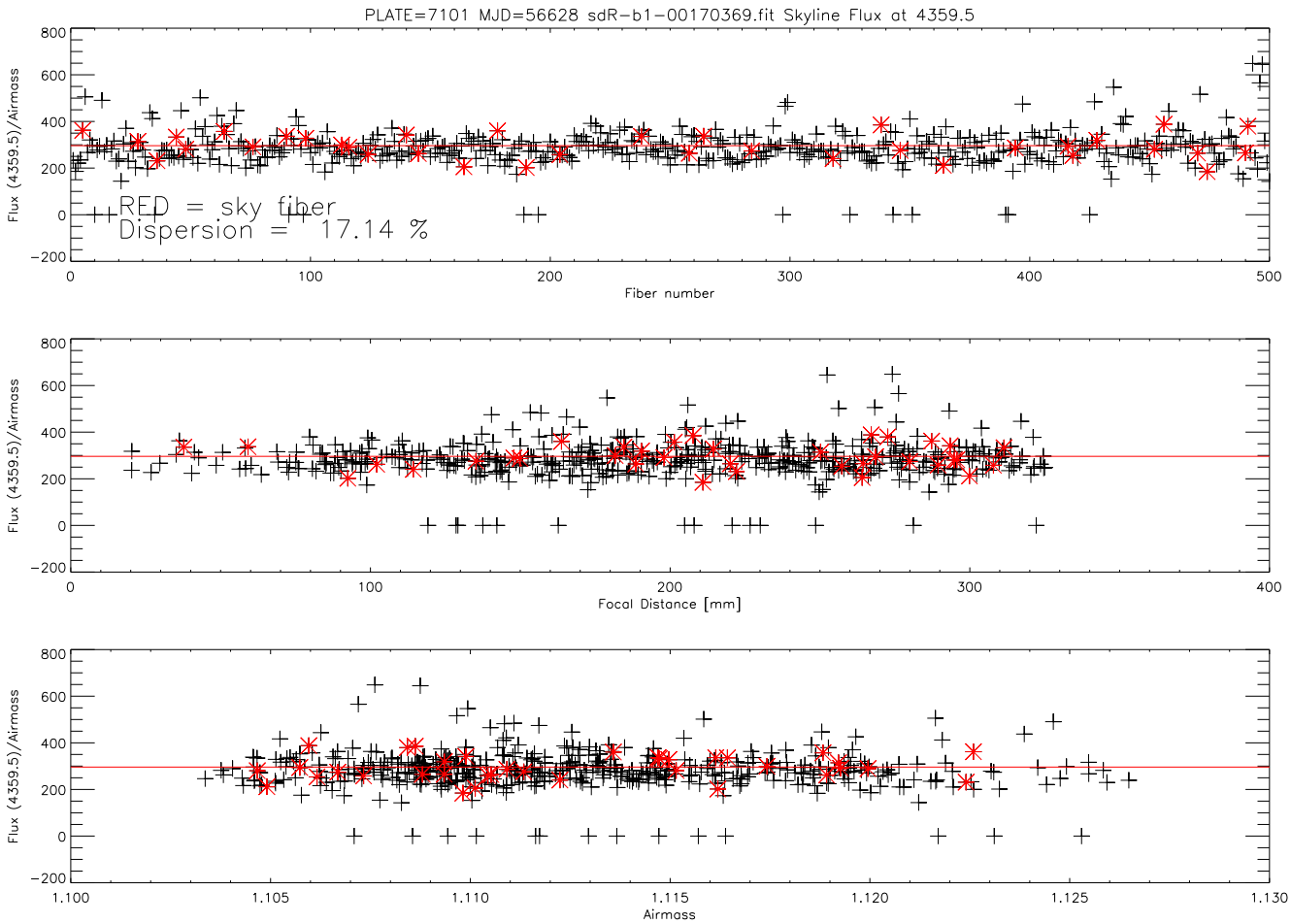

PLATE=7101 MJD=56628 sdR-b1-00170369.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

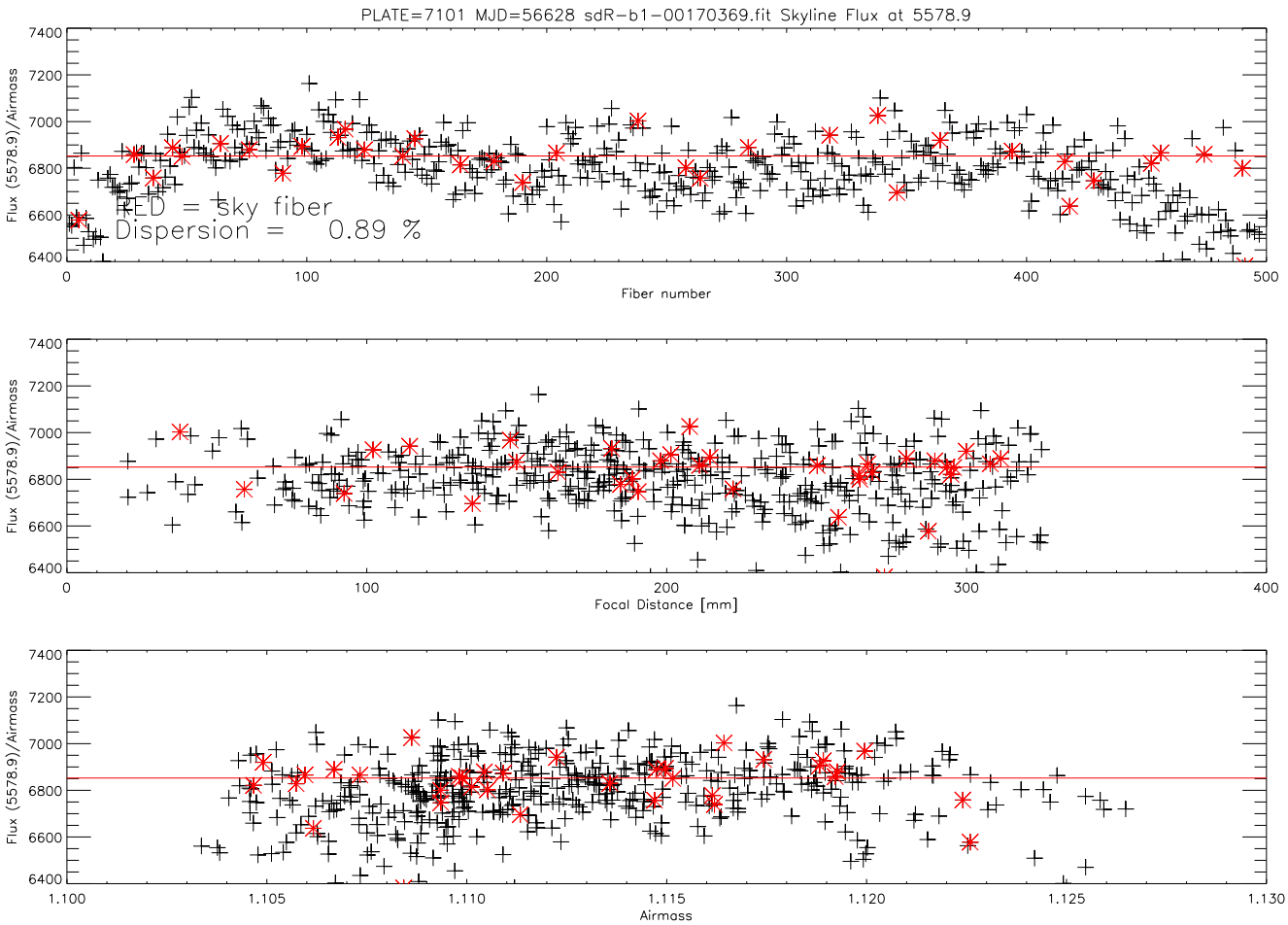

PLATE=7101 MJD=56628 sdR-b1-00170369.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

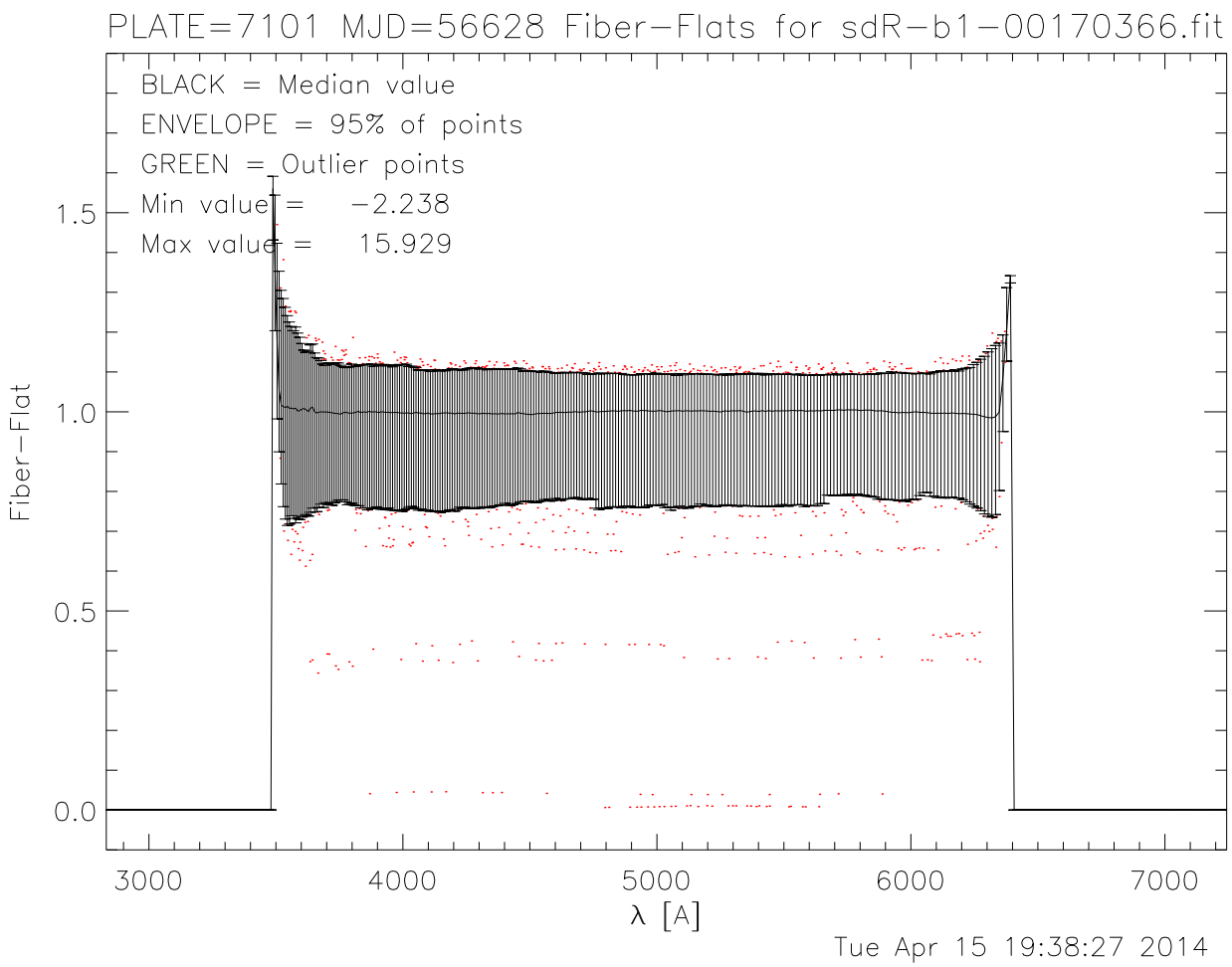

PLATE=7101 MJD=56628 sdR-b1-00170369.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

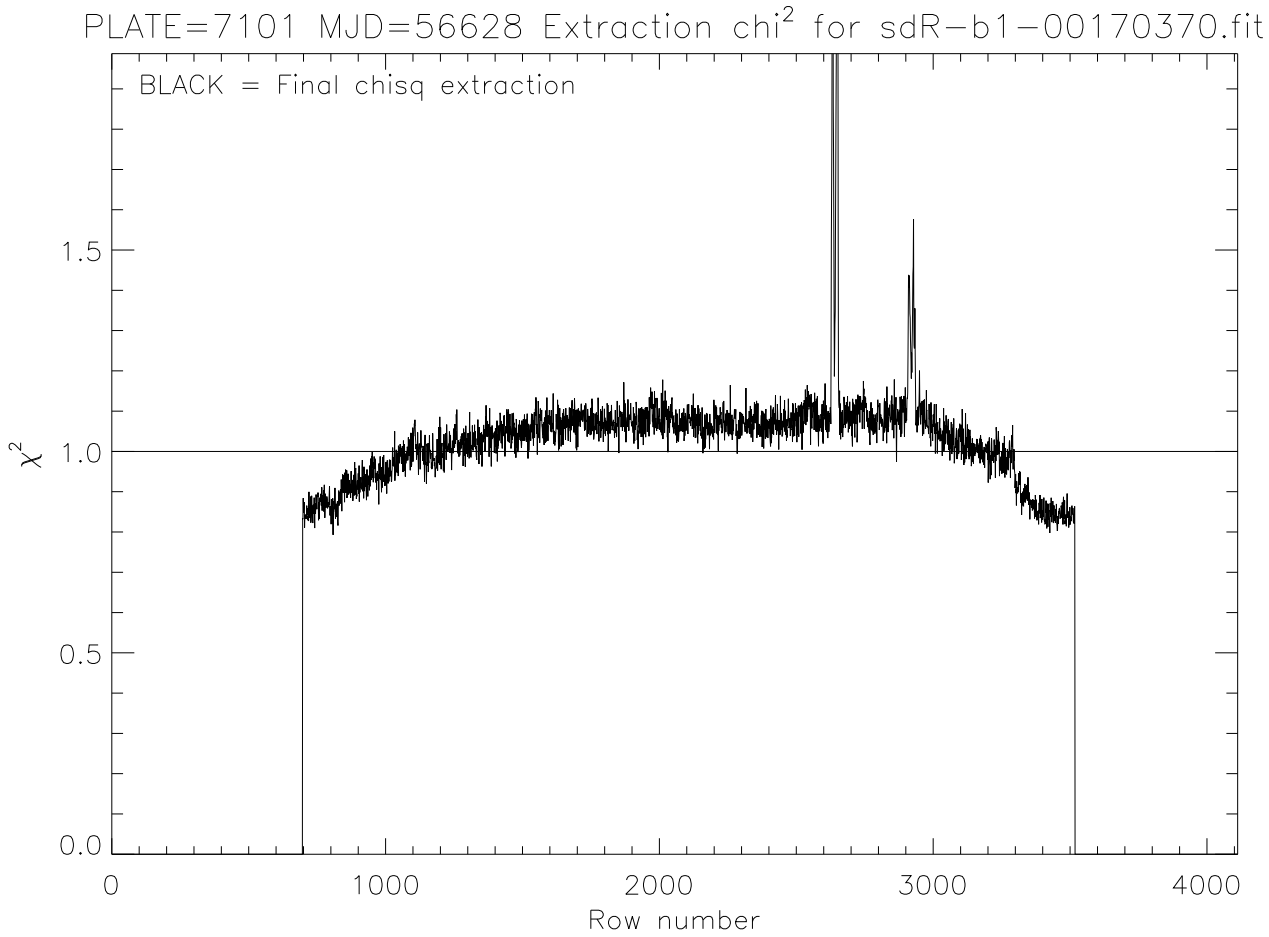
Number of sky fibers = 36

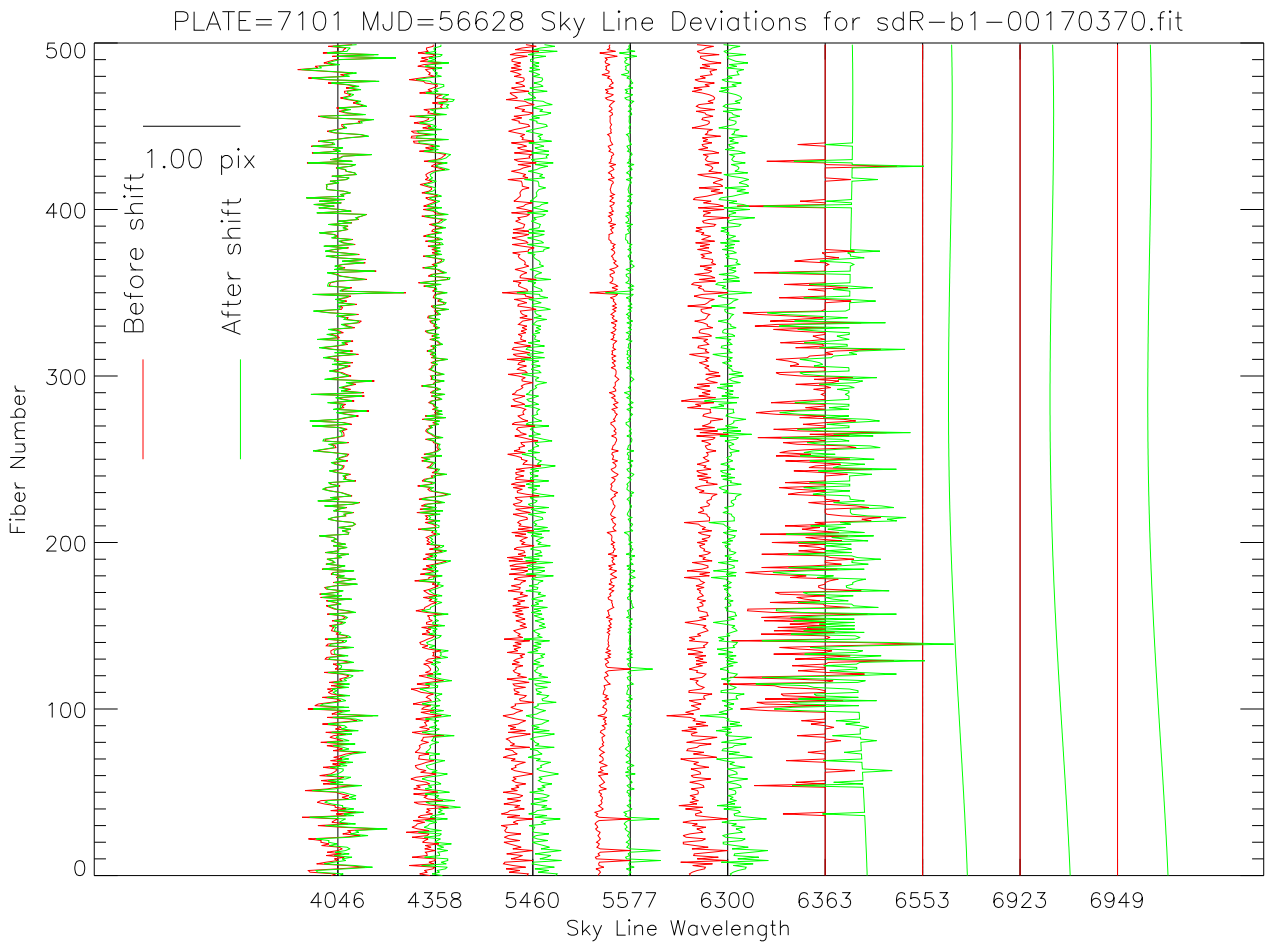


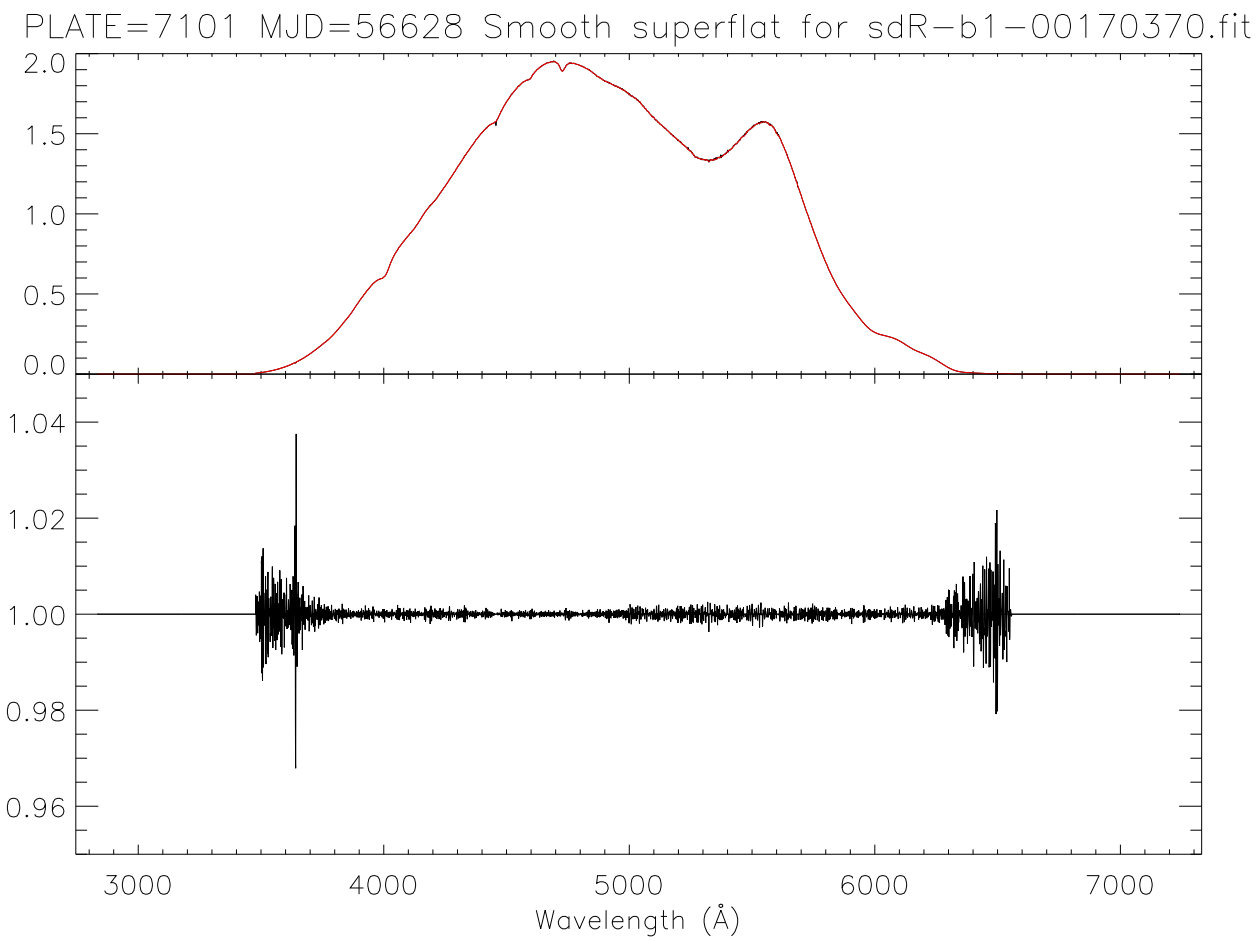

PLATE=7101 MJD=56628 sdR-b1-00170369.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 17.14 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

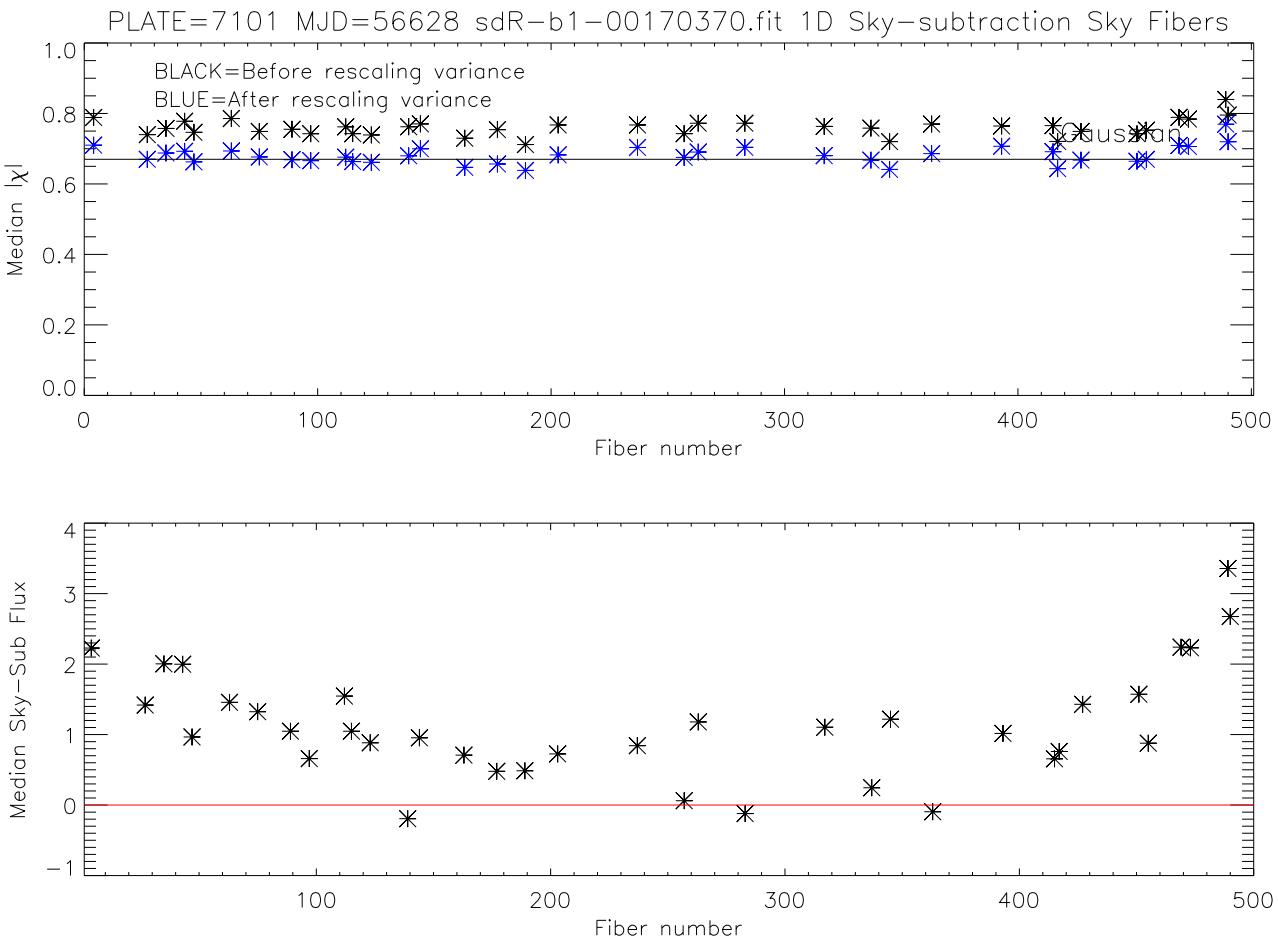

PLATE=7101 MJD=56628 sdR-b1-00170369.fit Skyline Flux at 5578.9
RED = sky fiber
Dispersion = 0.89 %
Flux (5578.9)/Airmass
Fiber number
Focal Distance [mm]
Airmass

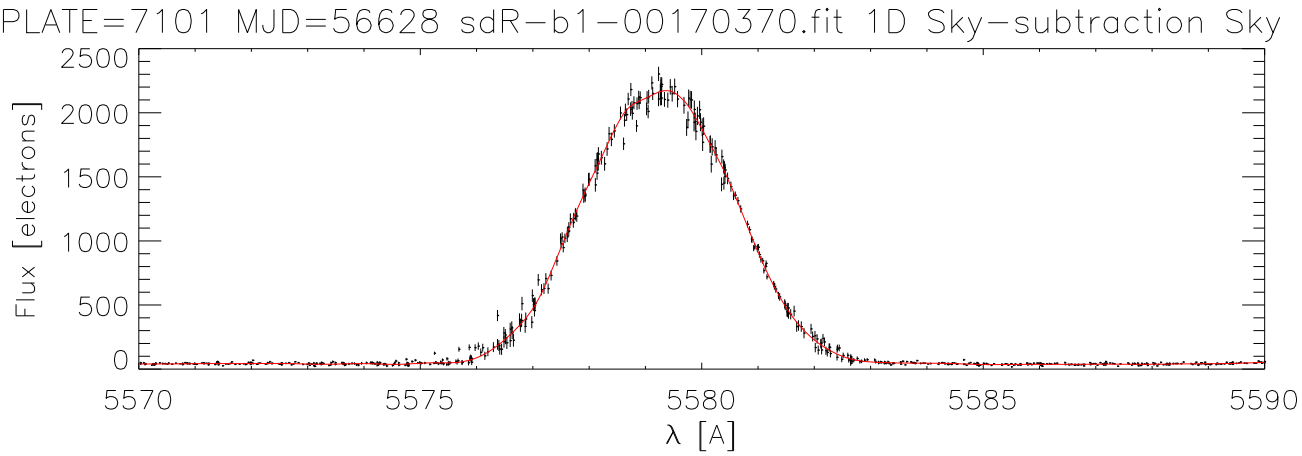

PLATE=7101 MJD=56628 Fiber-Flats for sdR-b1-00170366.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = -2.238
Max value = 15.929
Fiber-Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Tue Apr 15 19:38:27 2014

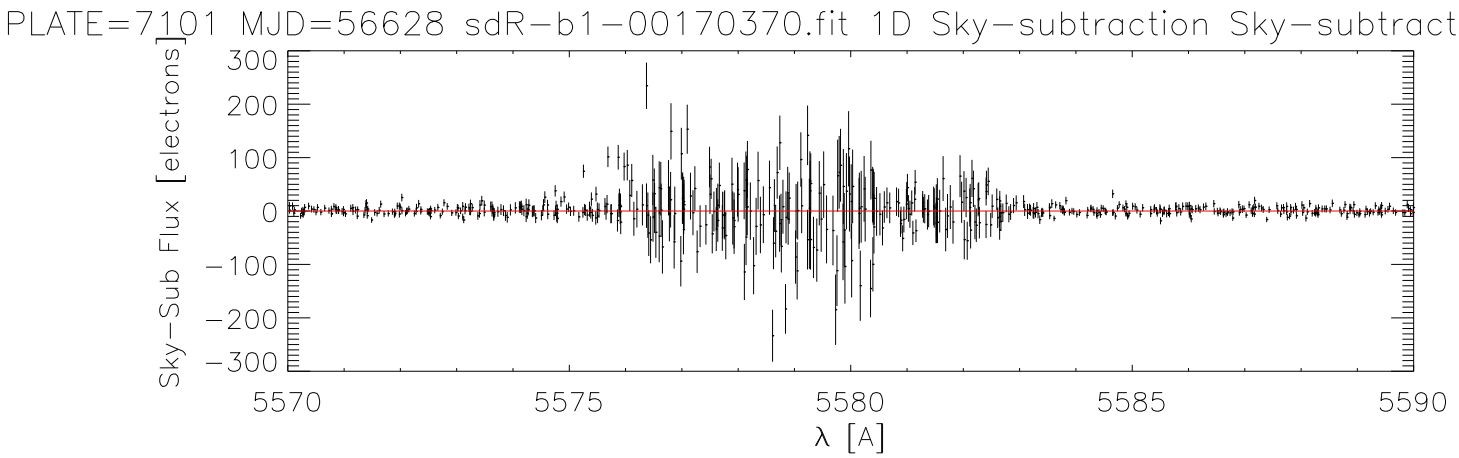

PLATE=7101 MJD=56628 Extraction chi^2 for sdR−b1−00170370.fit
BLACK = Final chisq extraction
χ^2
1.5
1.0
0.5
0.0
0
1000
2000
3000
4000
Row number


PLATE=7101 MJD=56628 Sky Line Deviations for sdR-b1-00170370.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

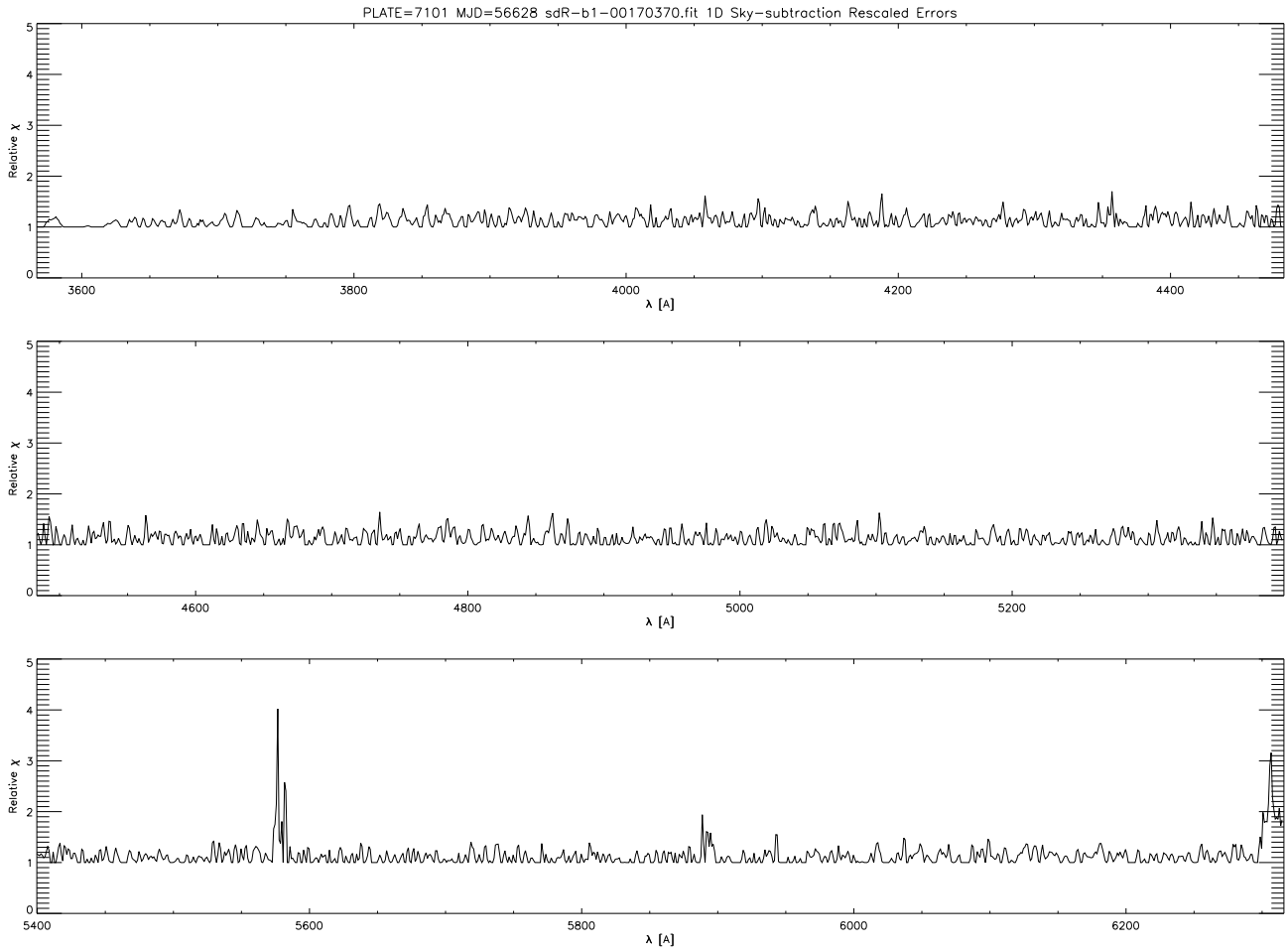

PLATE=7101 MJD=56628 Smooth superflat for sdR-b1-00170370.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

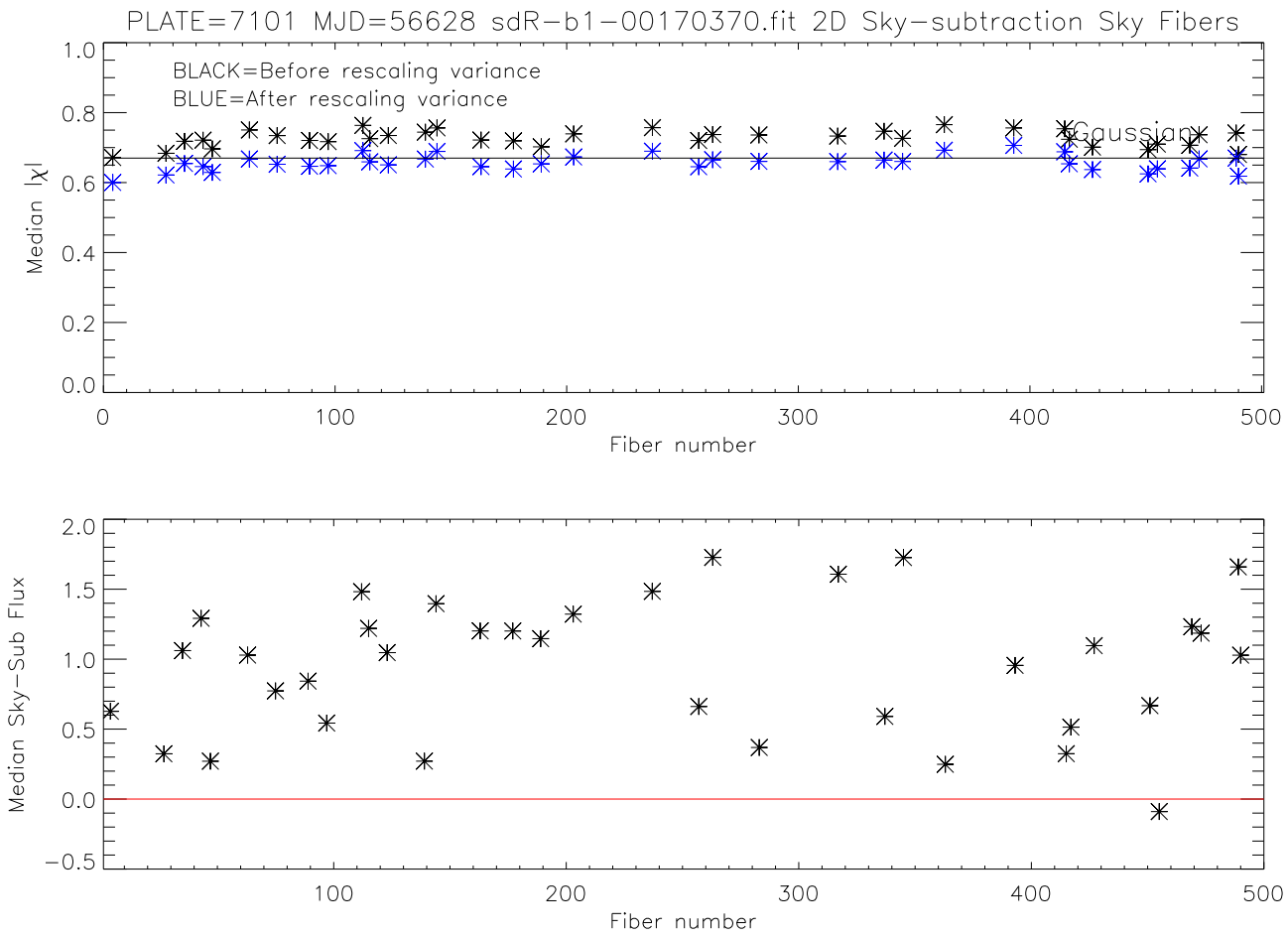

PLATE=7101 MJD=56628 sdR-b1-00170370.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

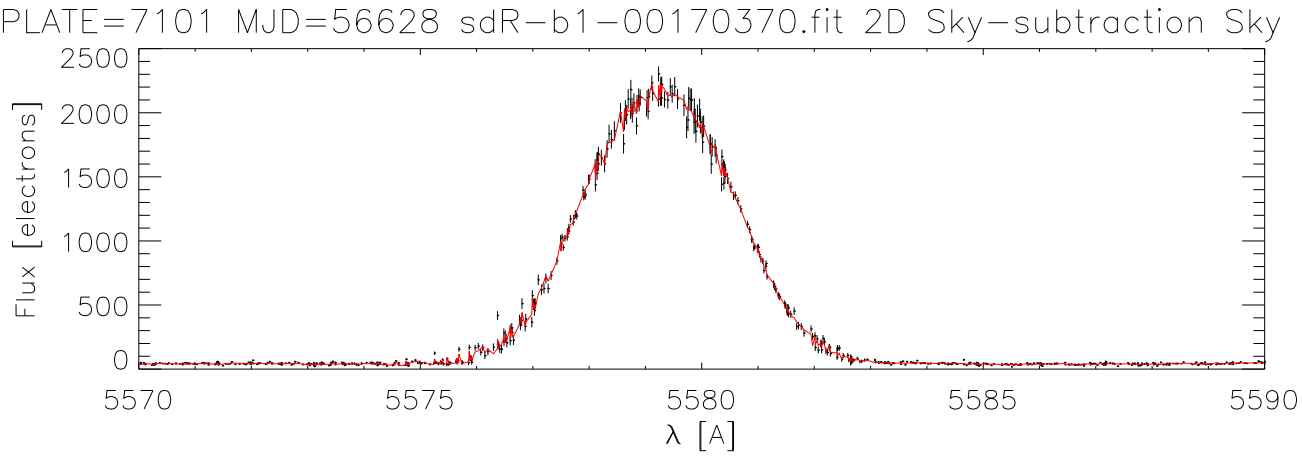

PLATE=7101 MJD=56628 sdR-b1-00170370.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

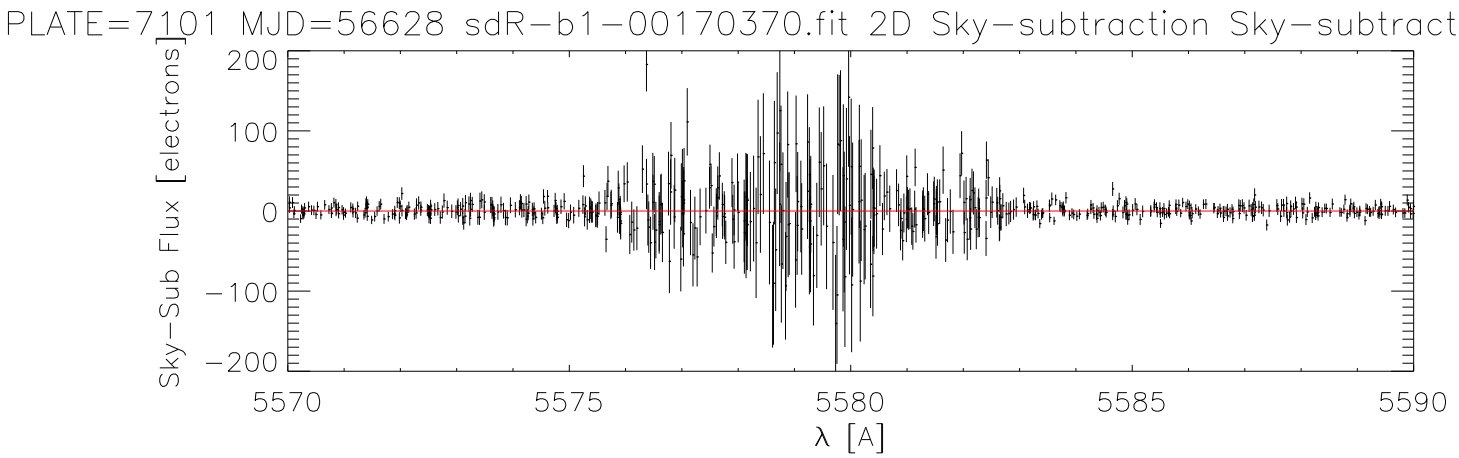

PLATE=7101 MJD=56628 sdR-b1-00170370.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 36

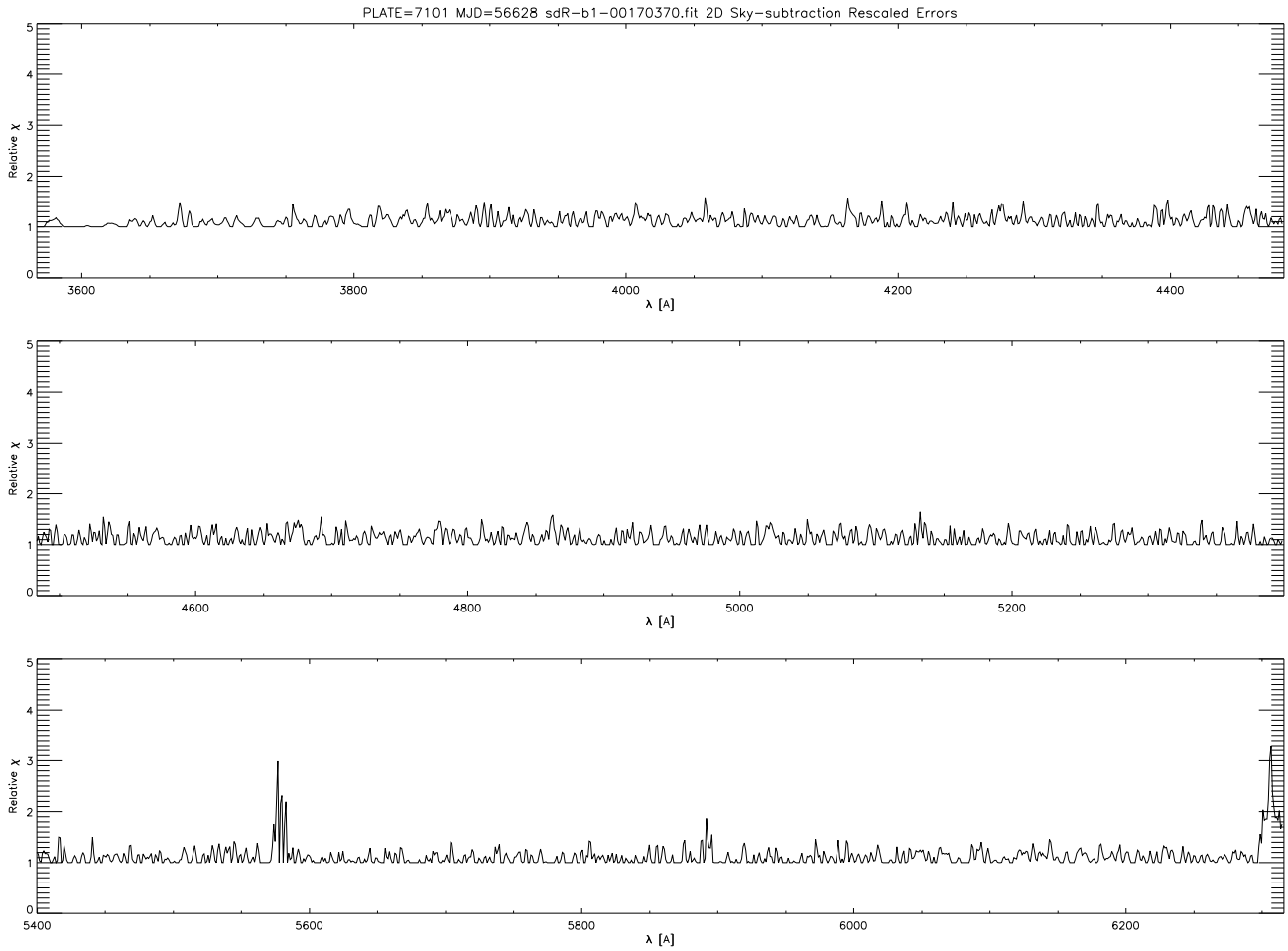


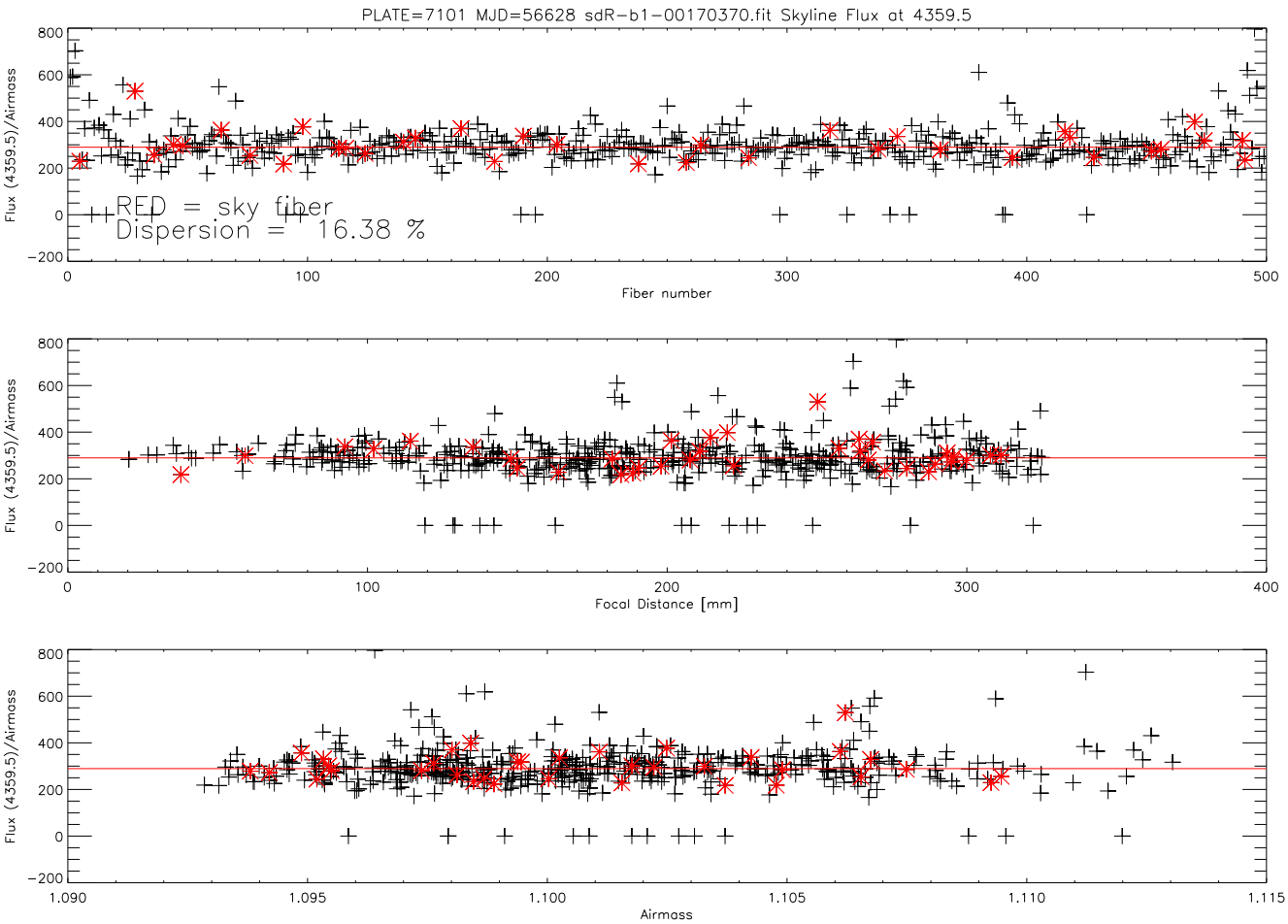

PLATE=7101 MJD=56628 sdR-b1-00170370.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

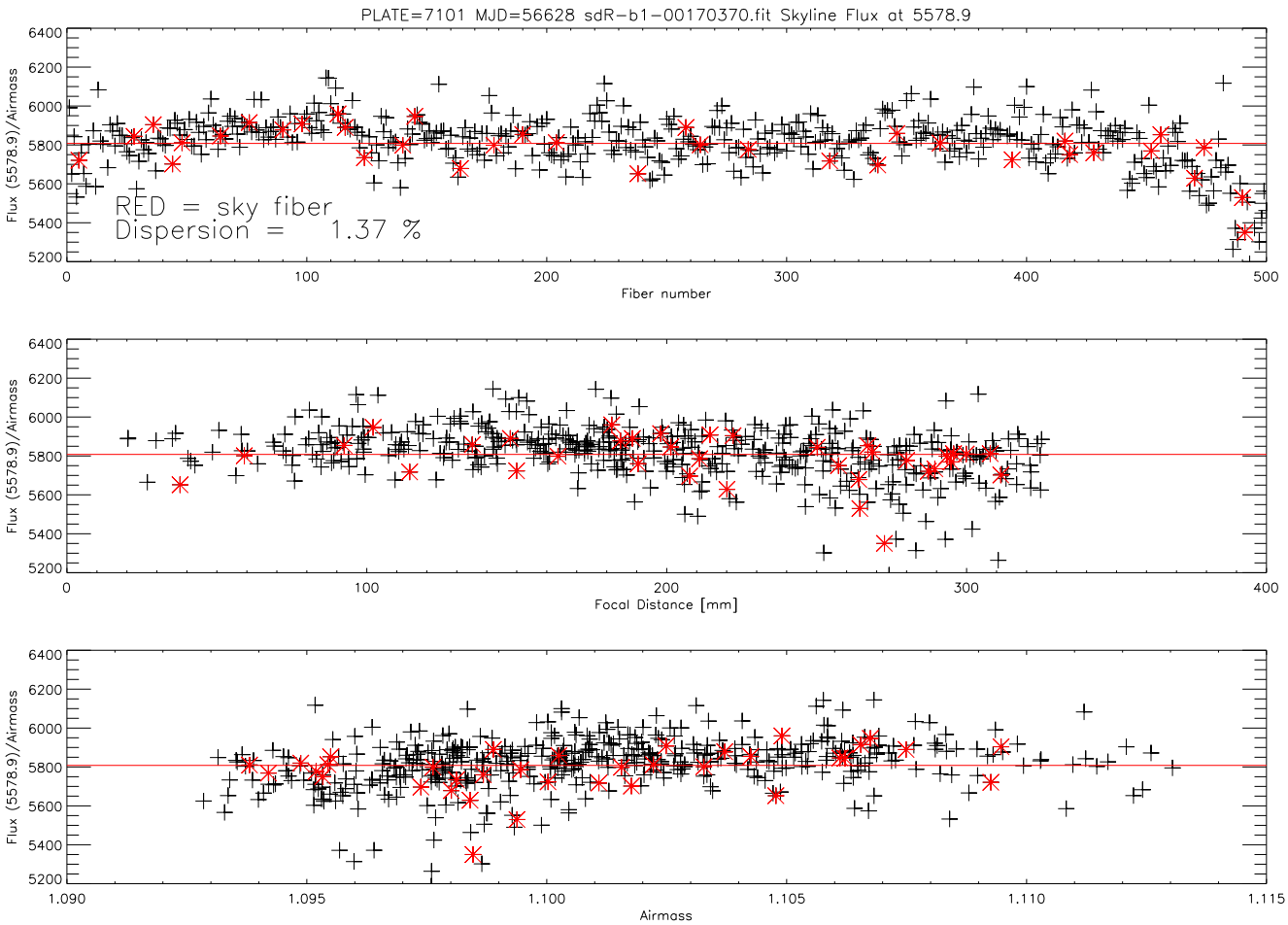

PLATE=7101 MJD=56628 sdR-b1-00170370.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]


PLATE=7101 MJD=56628 sdR-b1-00170370.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

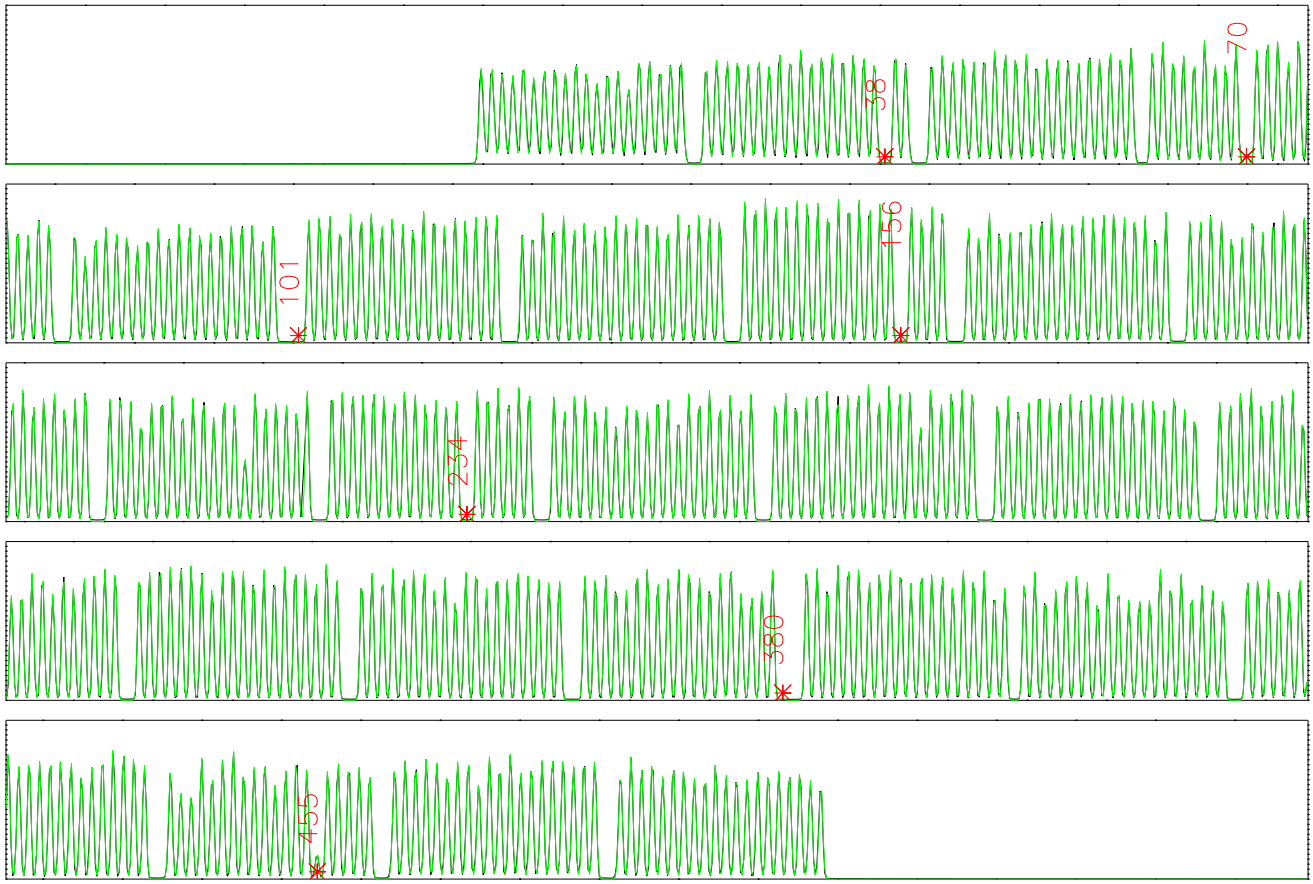
Number of sky fibers = 36

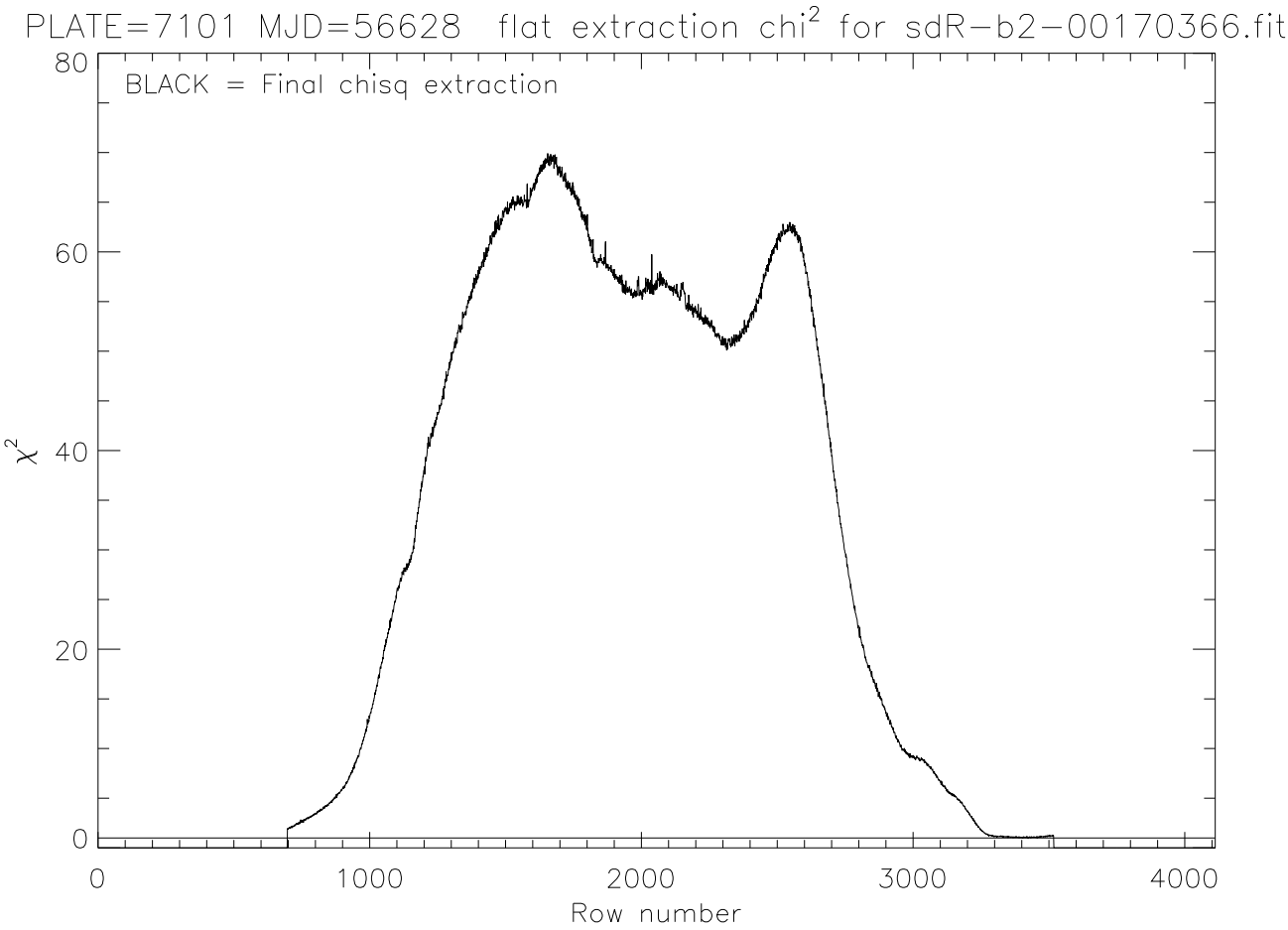


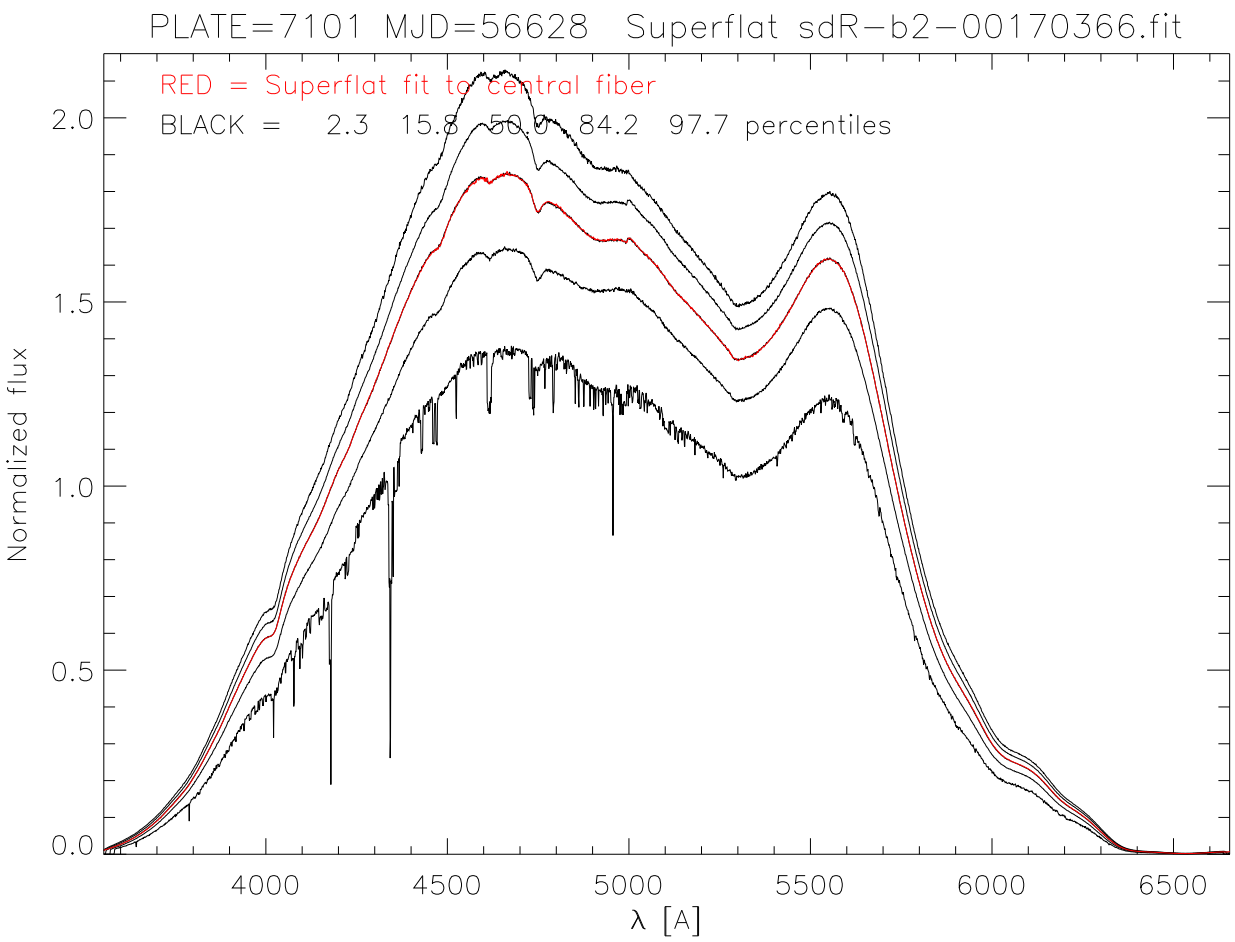

PLATE=7101 MJD=56628 sdR-b1-00170370.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 16.38 %
Fiber number
Focal Distance [mm]
Airmass

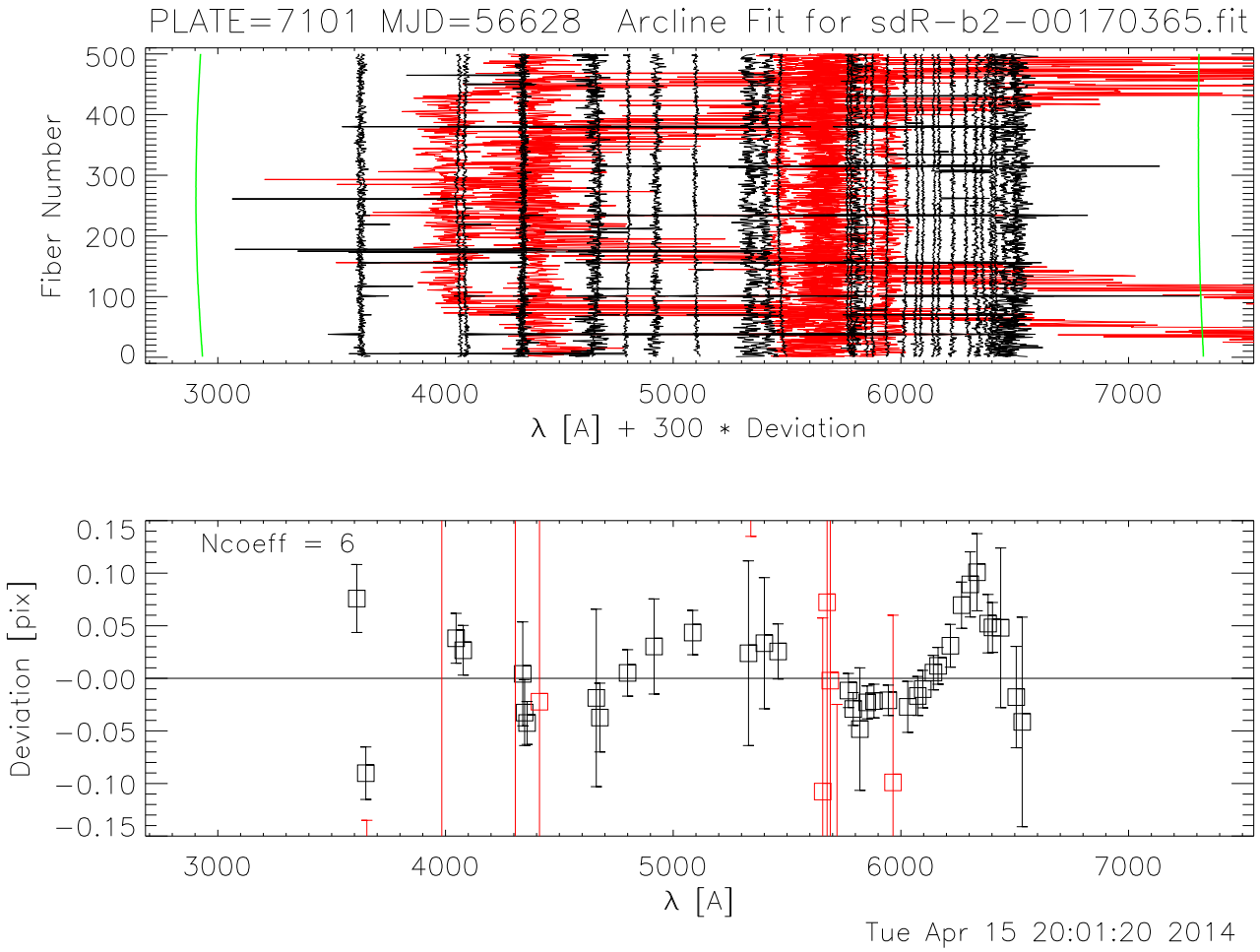

PLATE=7101 MJD=56628 sdR-b1-00170370.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.37 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

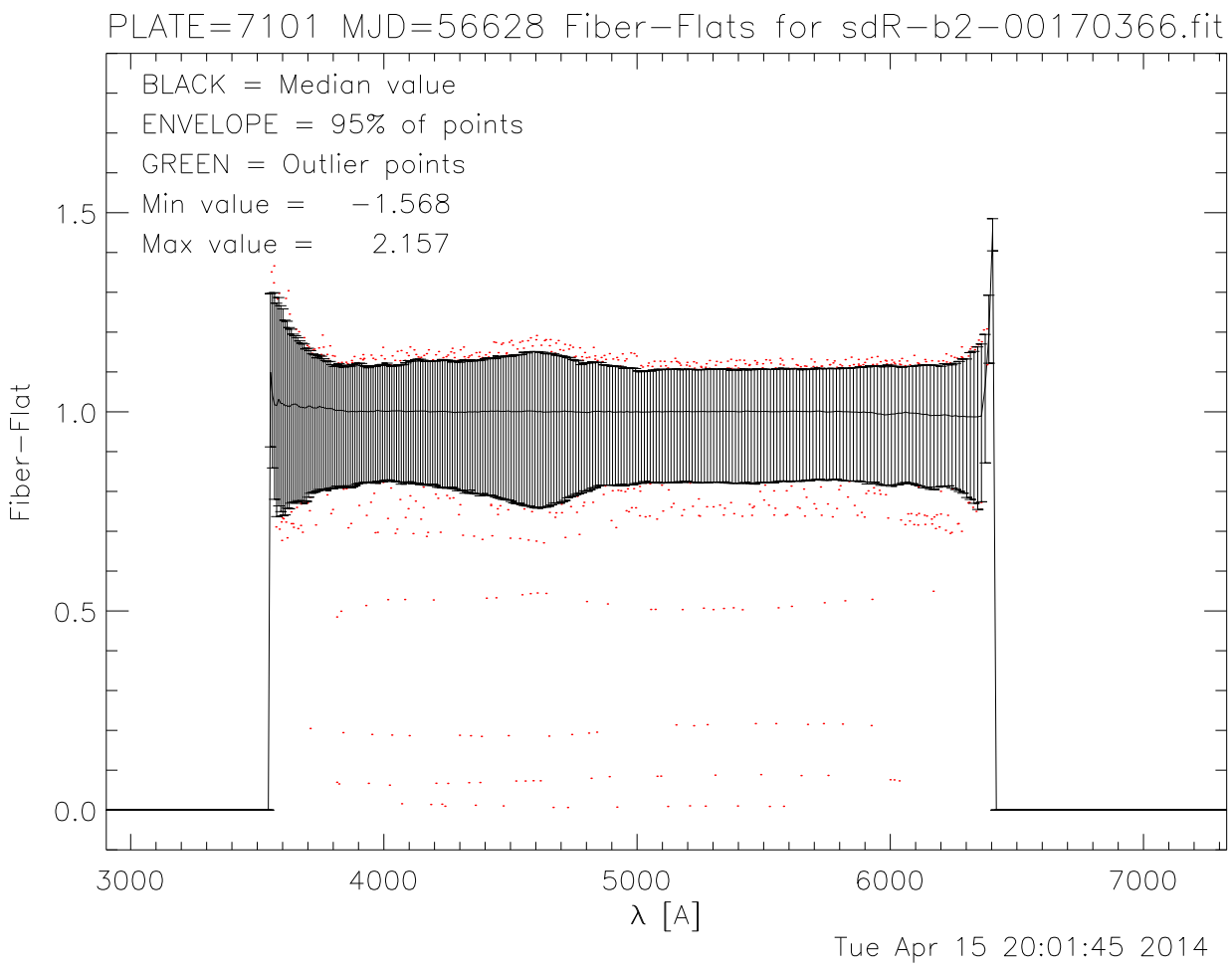
PLATE=7101 MJD=56628 Traces sdR-b2-00170366.fit

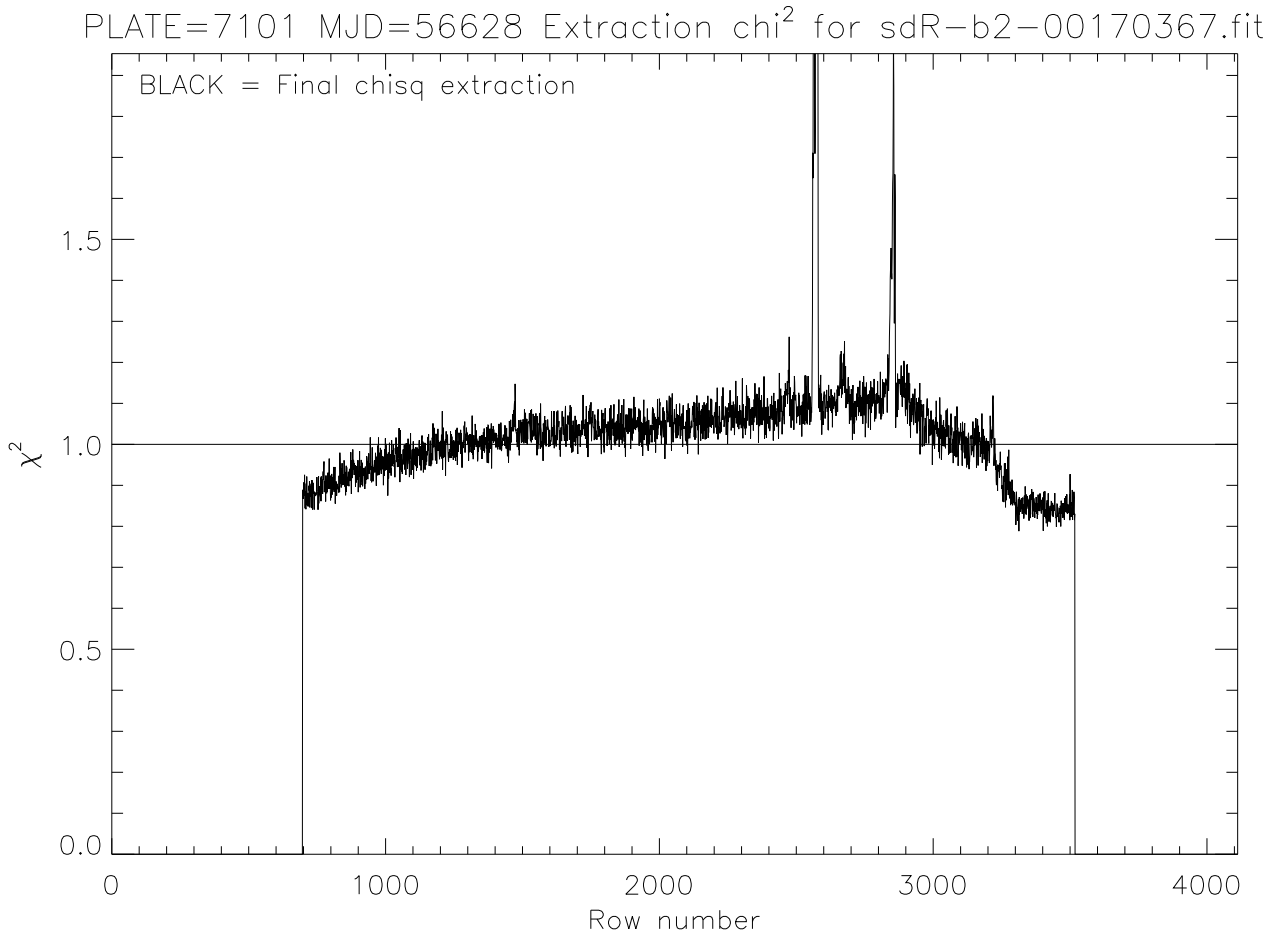


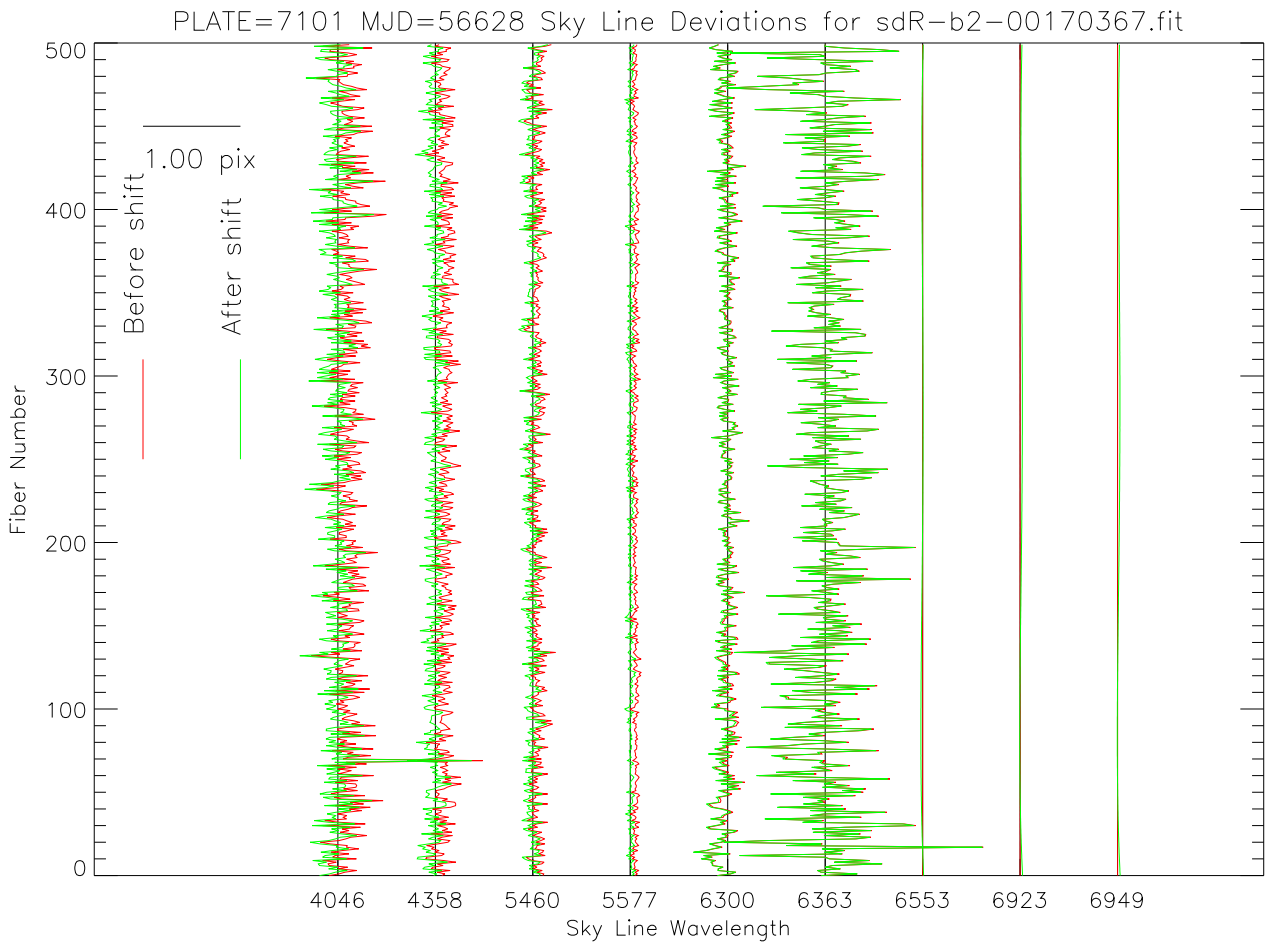

PLATE=7101 MJD=56628 flat extraction chi^2 for sdR−b2−00170366.fit
BLACK = Final chisq extraction
χ^2
0
20
40
60
80
0
1000
2000
3000
4000
Row number

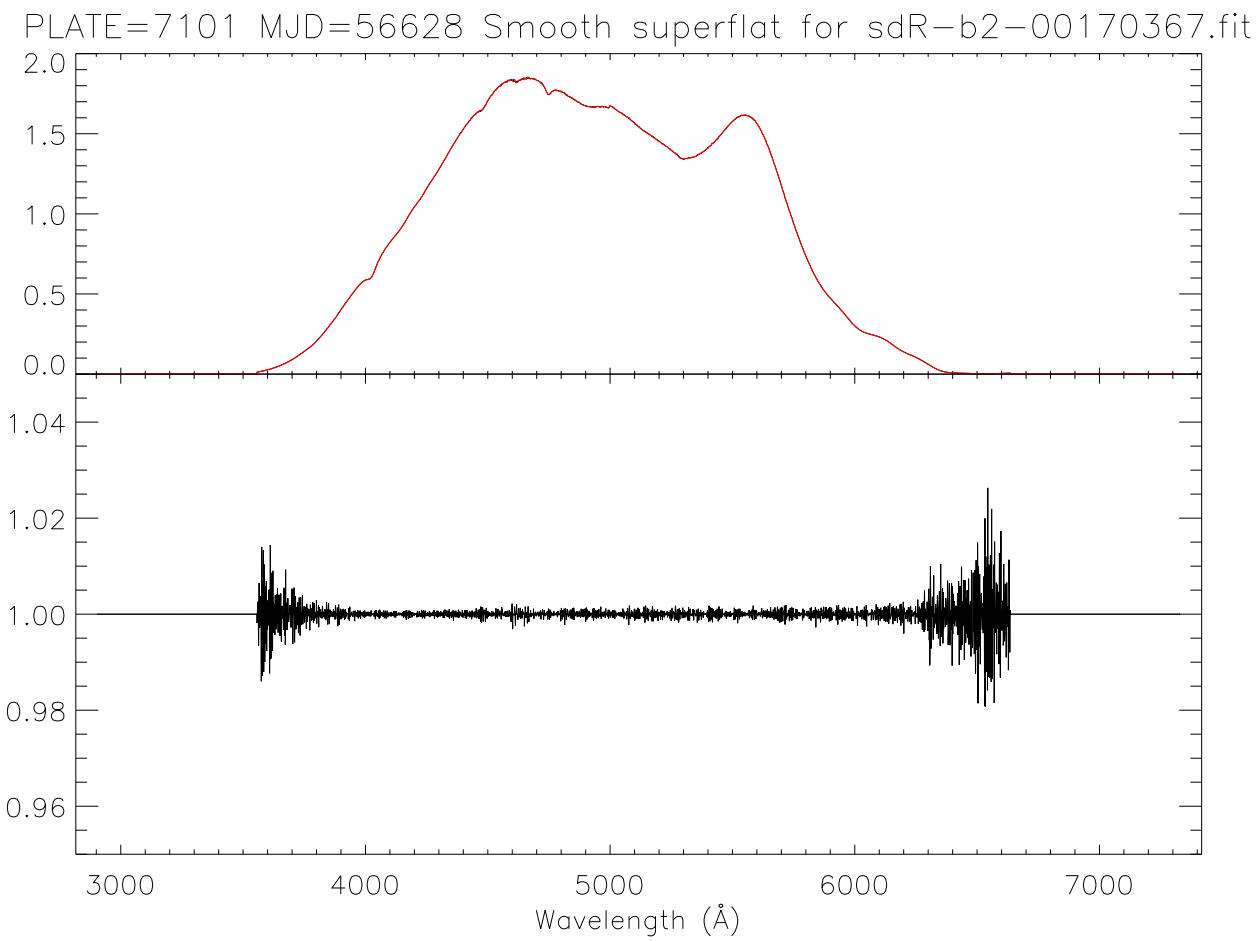

PLATE=7101 MJD=56628 Superflat sdR-b2-00170366.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
4000
4500
5000
5500
6000
6500

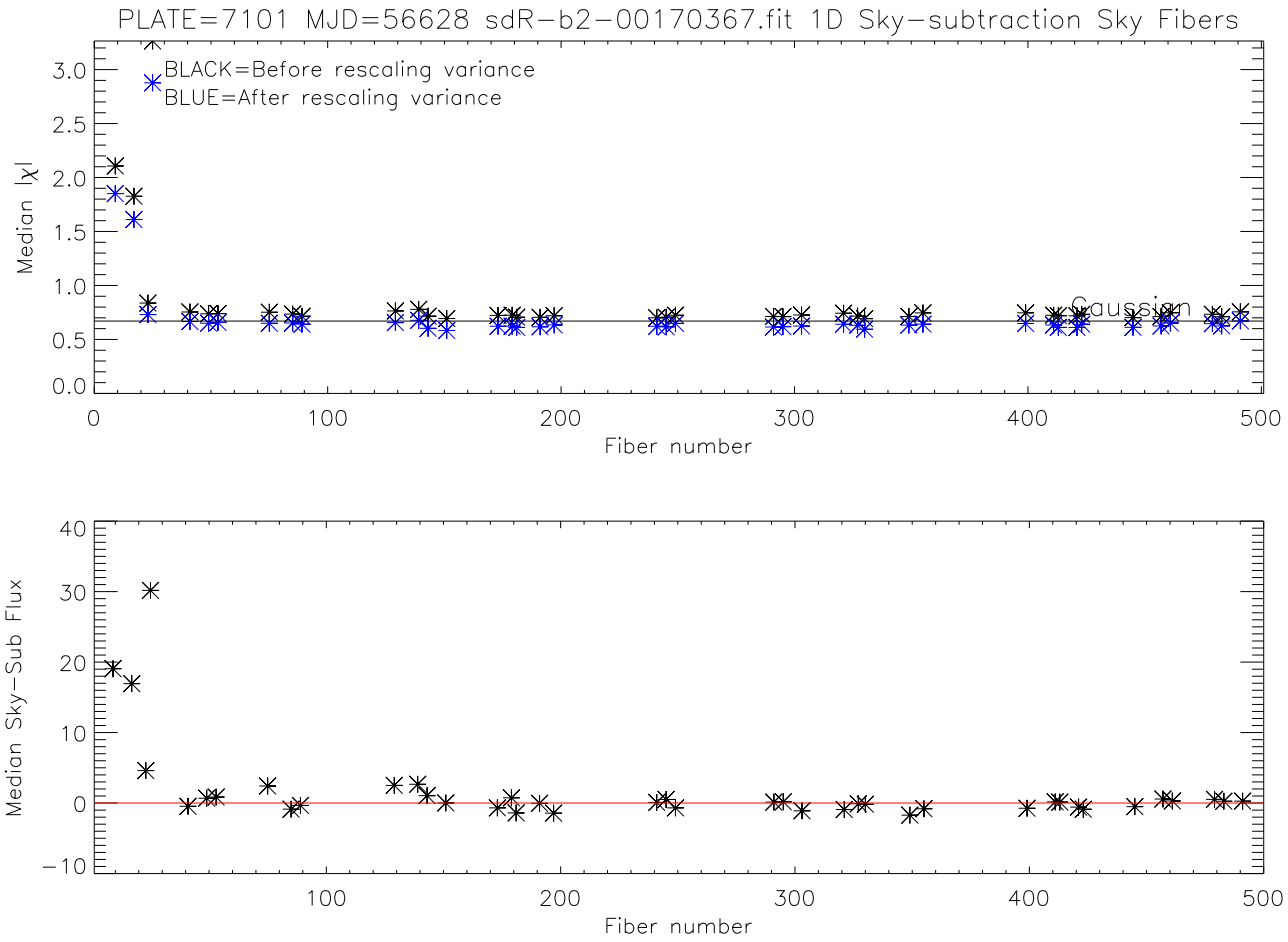

PLATE=7101 MJD=56628 Arcline Fit for sdR-b2-00170365.fit
Fiber Number
500
400
300
200
100
0
3000
4000
5000
6000
7000
λ [A] + 300 * Deviation
Ncoeff = 6
Deviation [pix]
0.15
0.10
0.05
−0.00
−0.05
−0.10
−0.15
λ [A]
Tue Apr 15 20:01:20 2014

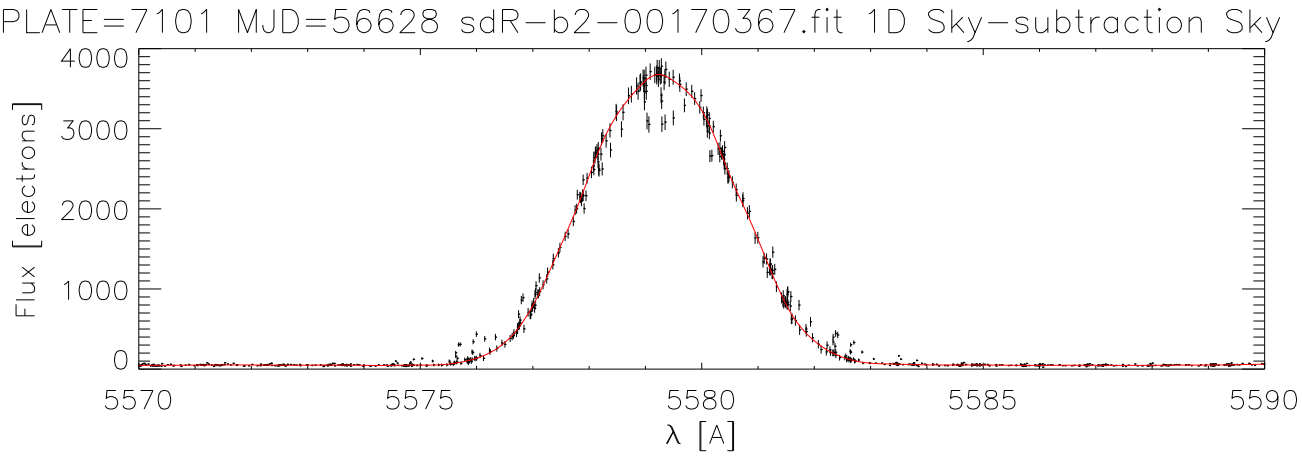

PLATE=7101 MJD=56628 Fiber−Flats for sdR−b2−00170366.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −1.568
Max value = 2.157
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Tue Apr 15 20:01:45 2014

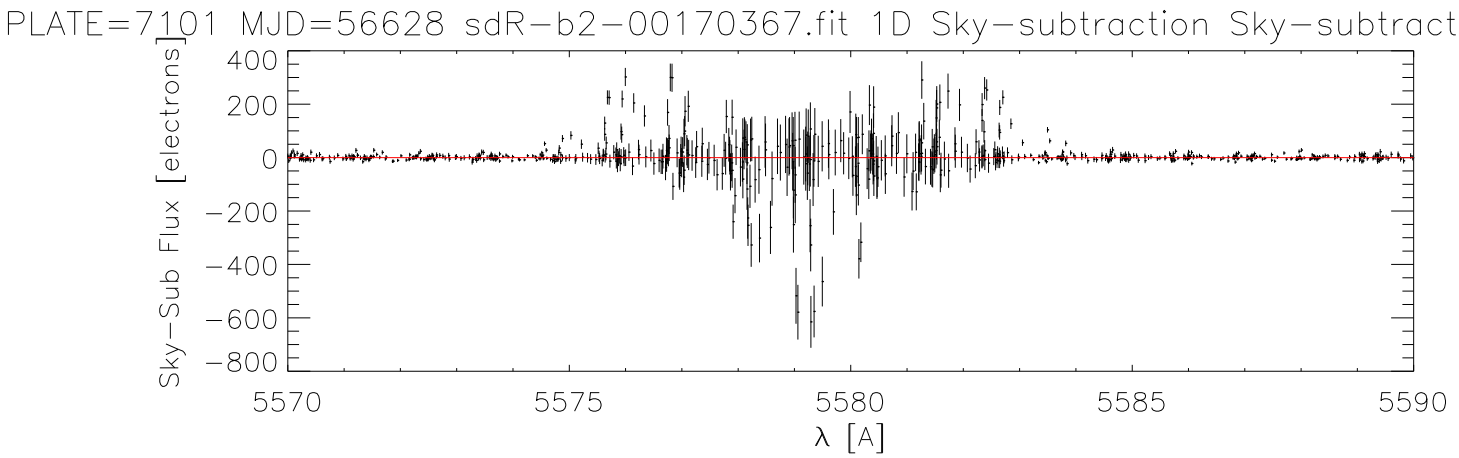

PLATE=7101 MJD=56628 Extraction chi^2 for sdR−b2−00170367.fit
BLACK = Final chisq extraction
χ^2
1.5
1.0
0.5
0.0
0
1000
2000
3000
4000
Row number


PLATE=7101 MJD=56628 Sky Line Deviations for sdR-b2-00170367.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

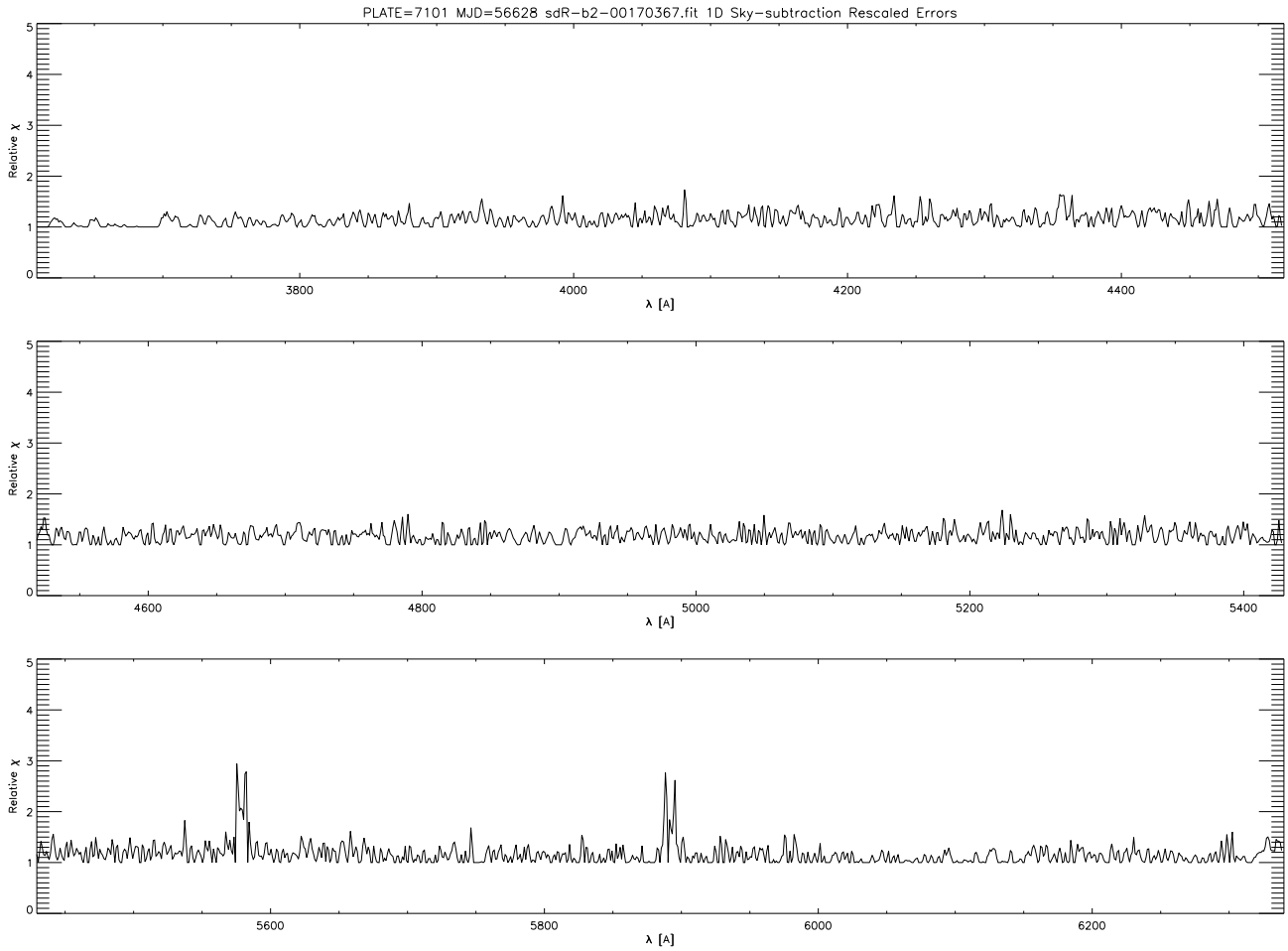

PLATE=7101 MJD=56628 Smooth superflat for sdR-b2-00170367.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

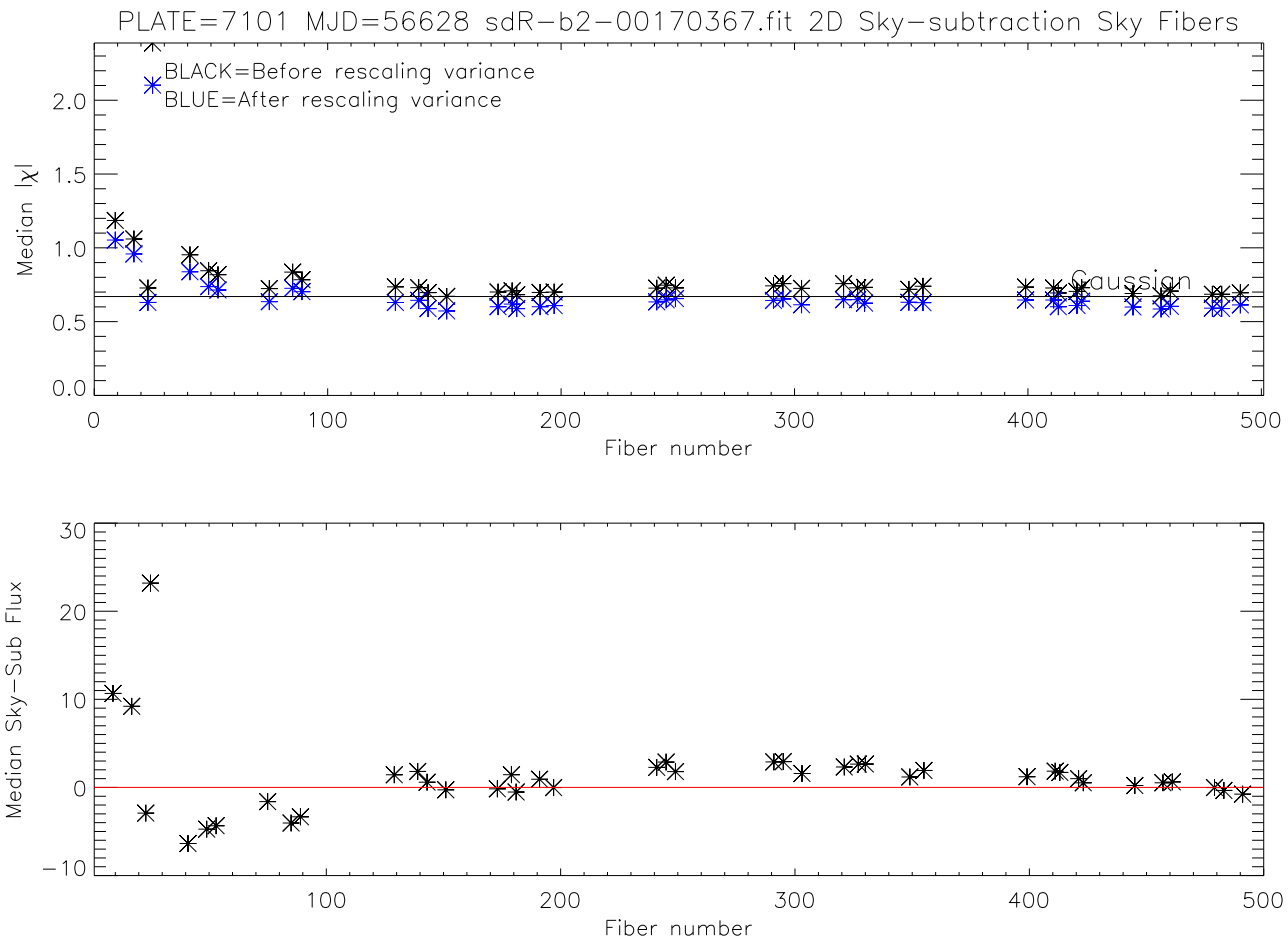

PLATE=7101 MJD=56628 sdR-b2-00170367.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Median |χ|
Gaussian
Fiber number
Median Sky-Sub Flux
Fiber number

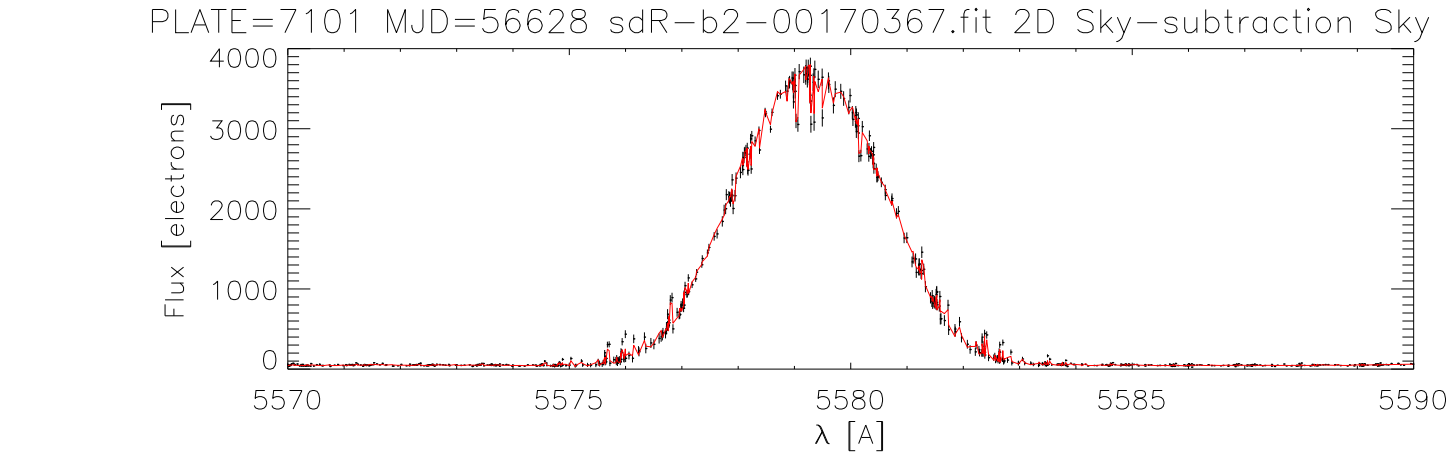

PLATE=7101 MJD=56628 sdR-b2-00170367.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

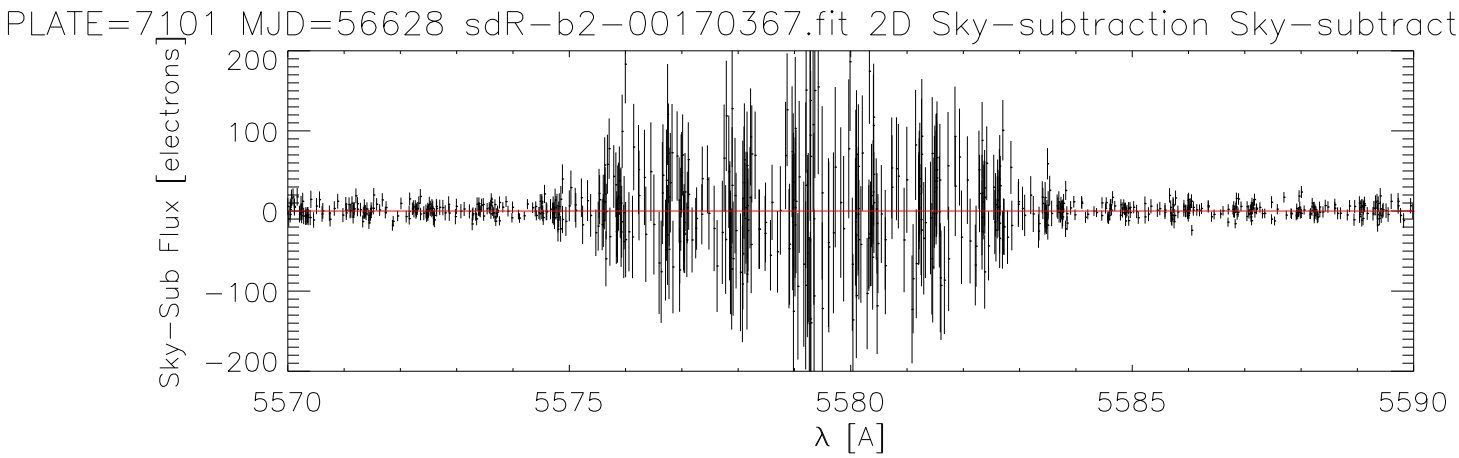

PLATE=7101 MJD=56628 sdR-b2-00170367.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
-600
-800
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 41

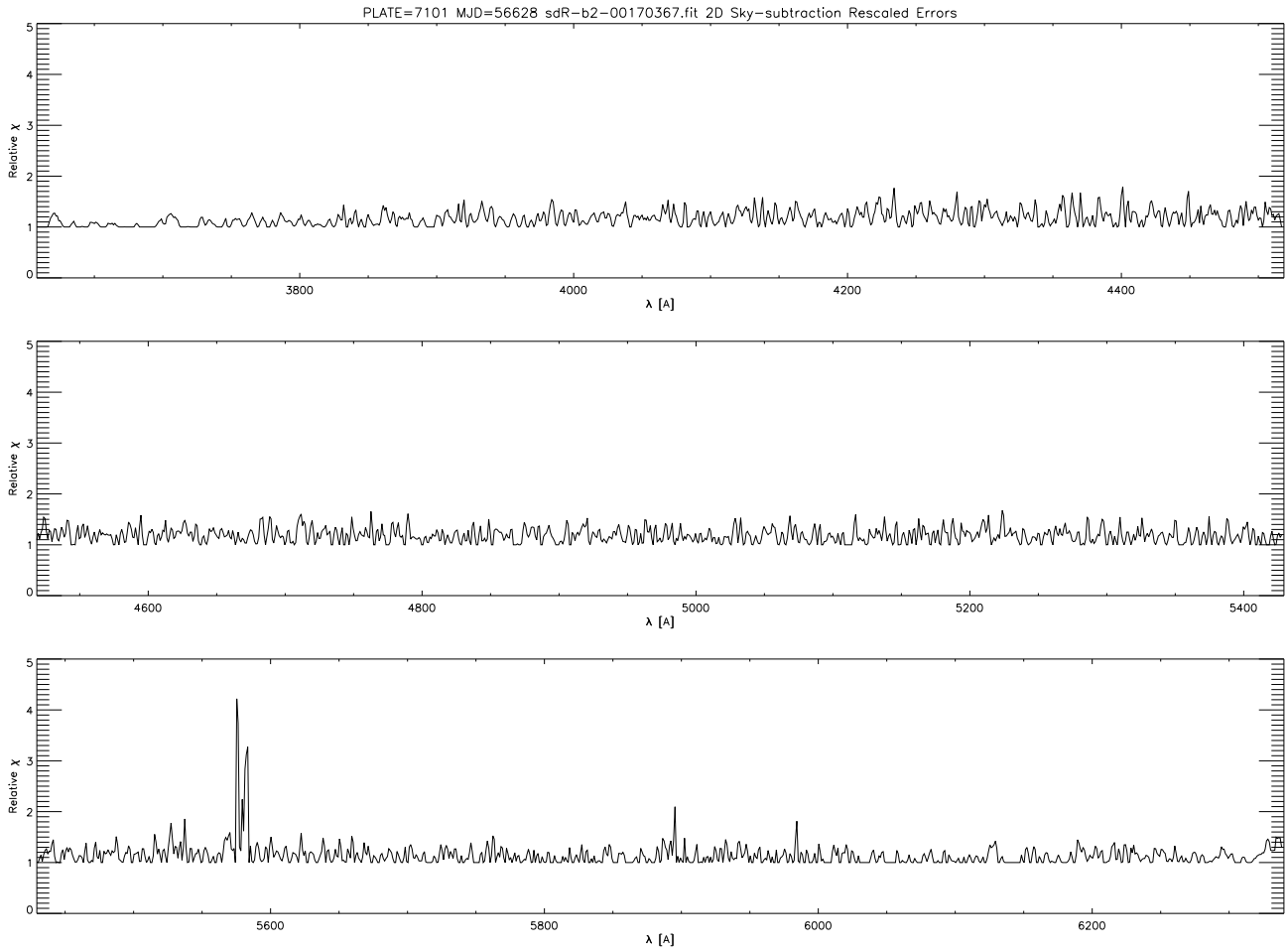


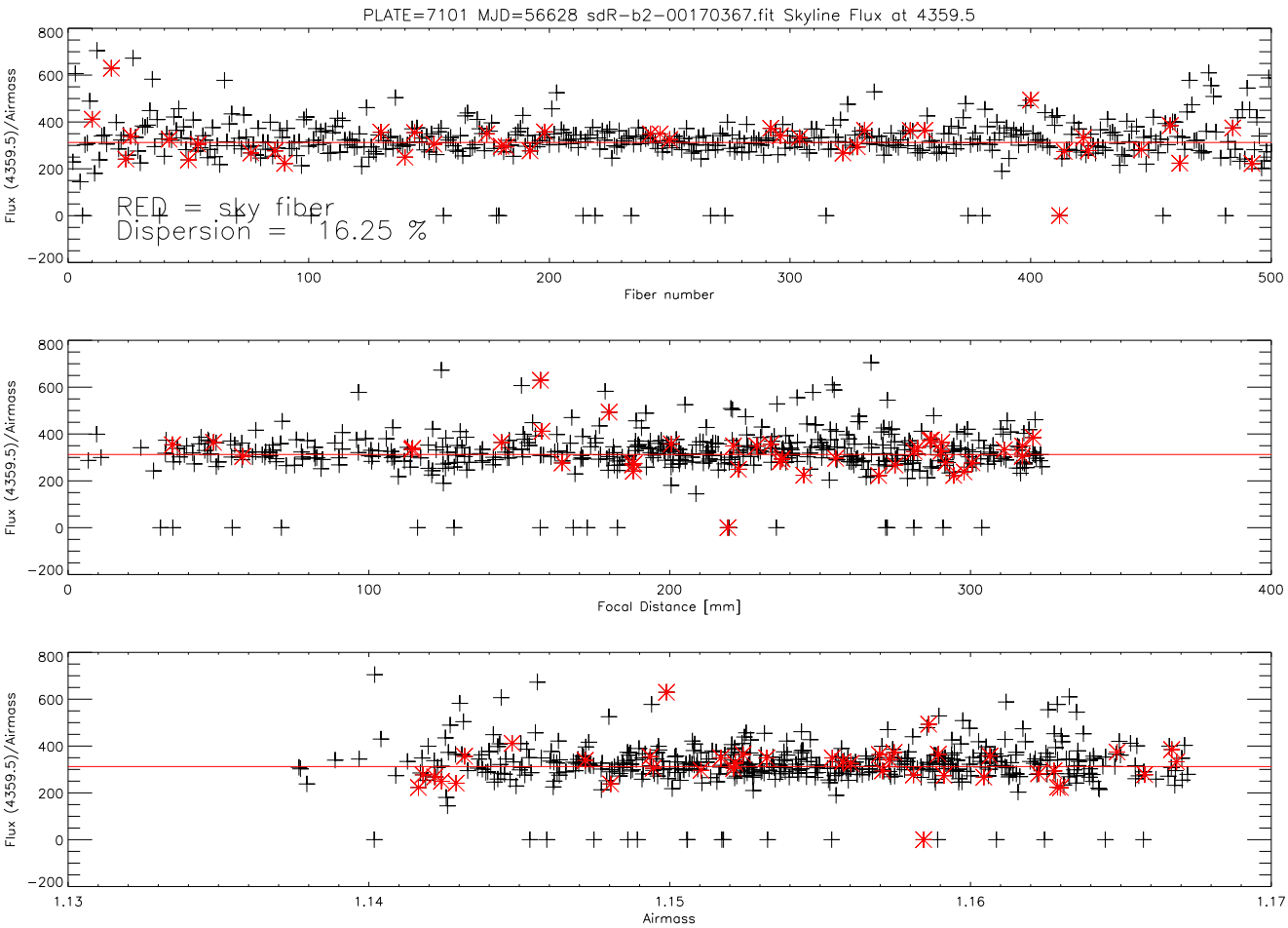

PLATE=7101 MJD=56628 sdR-b2-00170367.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Median |χ|
Gaussian
Fiber number
Median Sky-Sub Flux
Fiber number

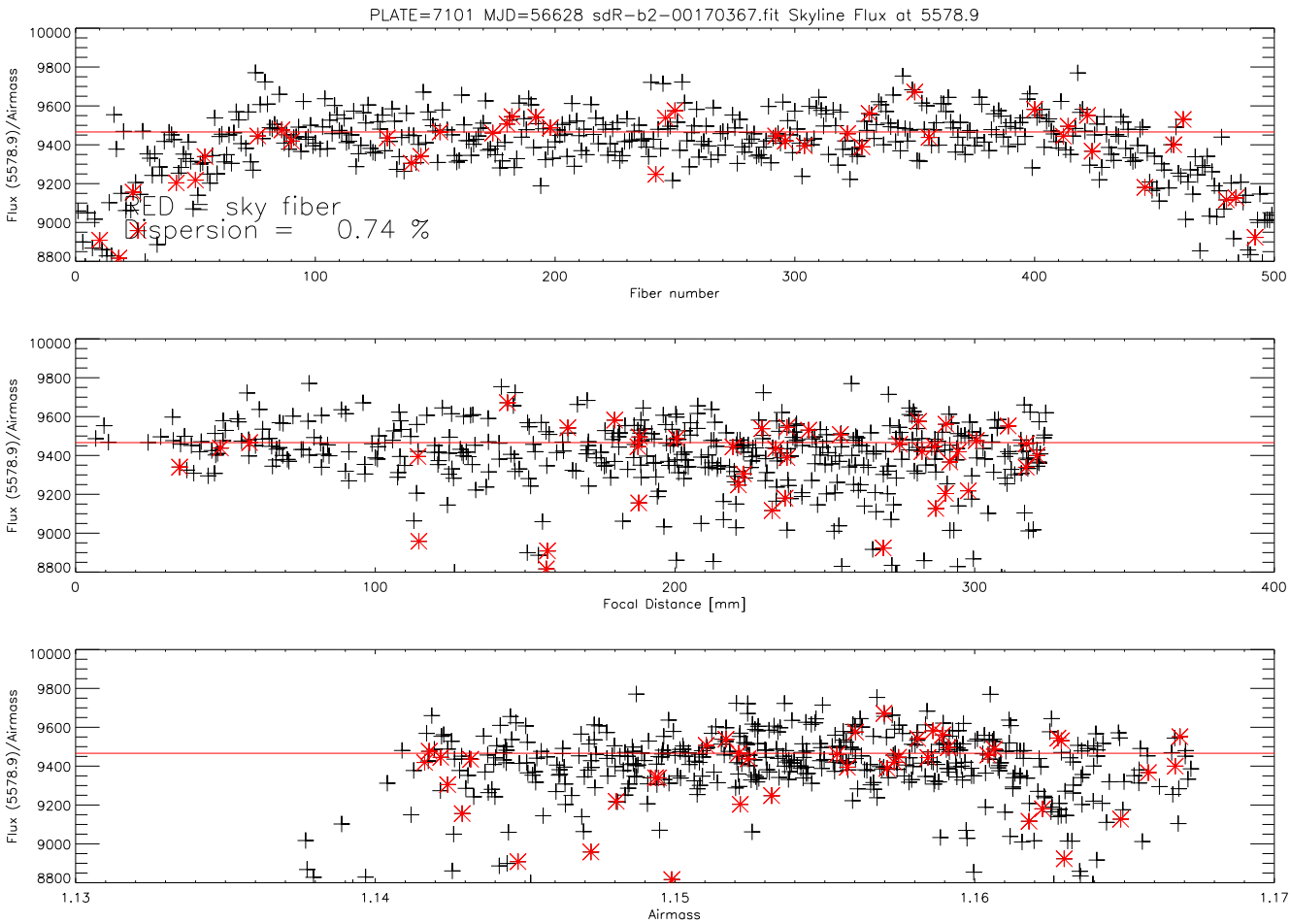

PLATE=7101 MJD=56628 sdR-b2-00170367.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

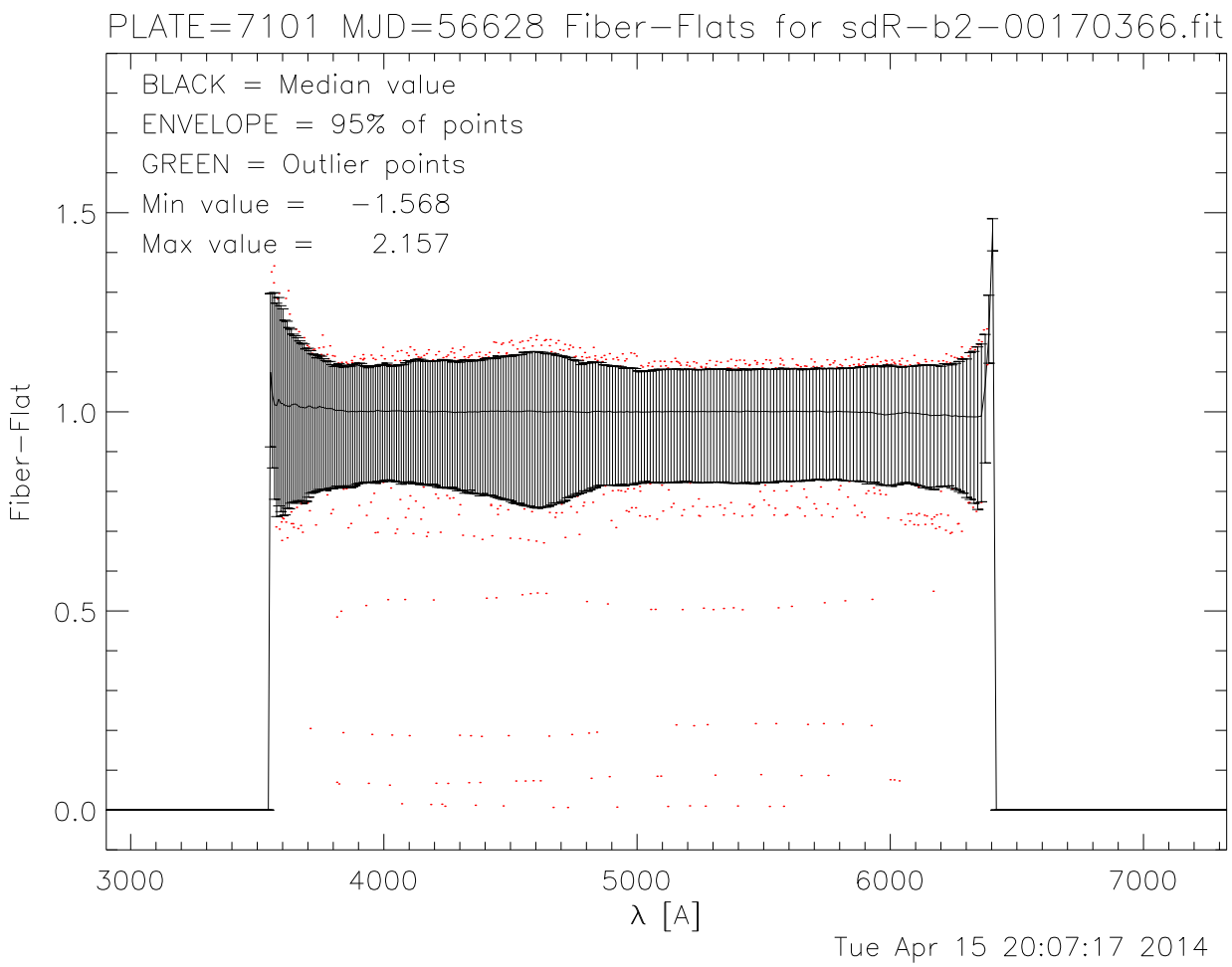

PLATE=7101 MJD=56628 sdR-b2-00170367.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

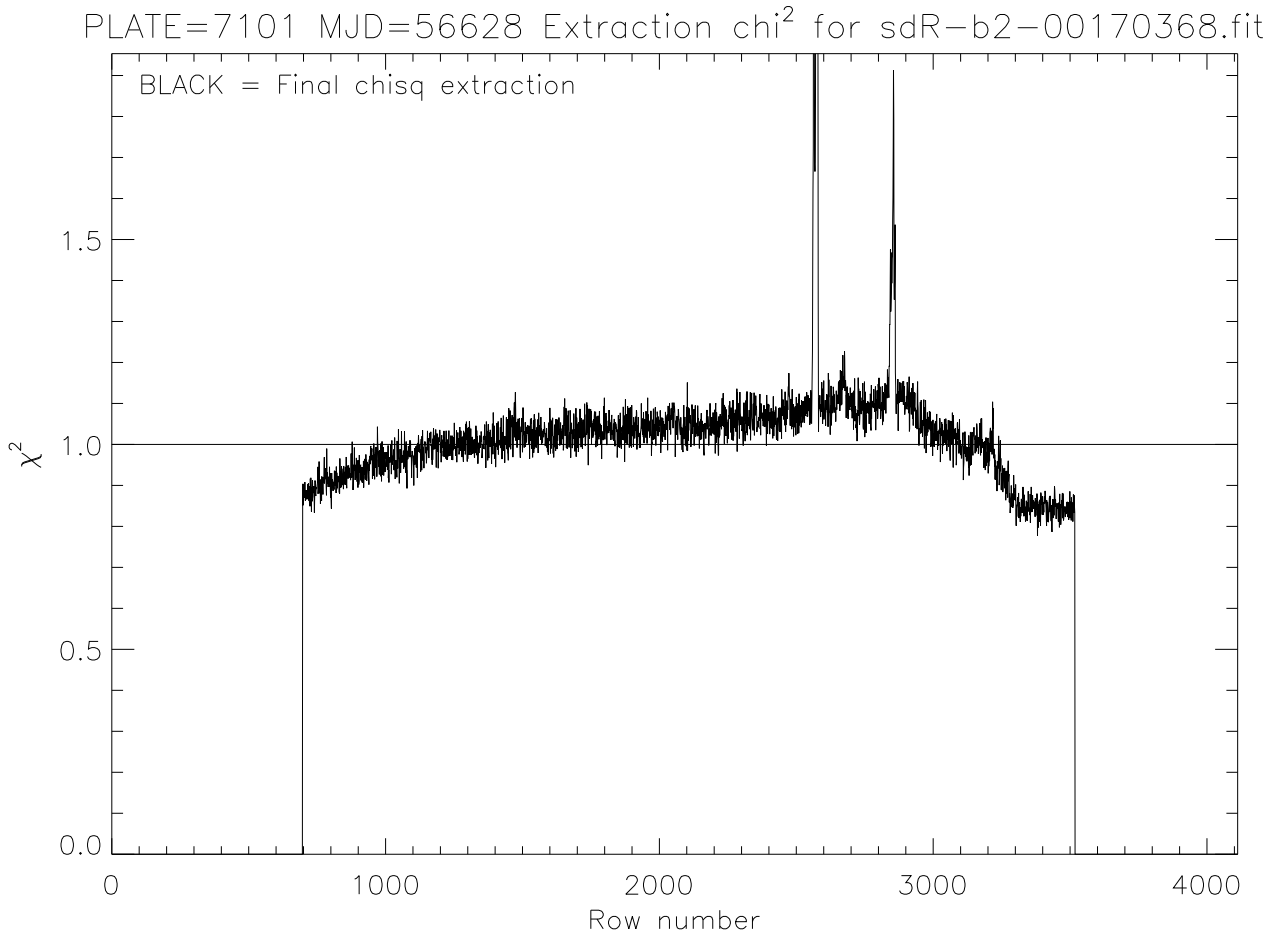
Number of sky fibers = 41

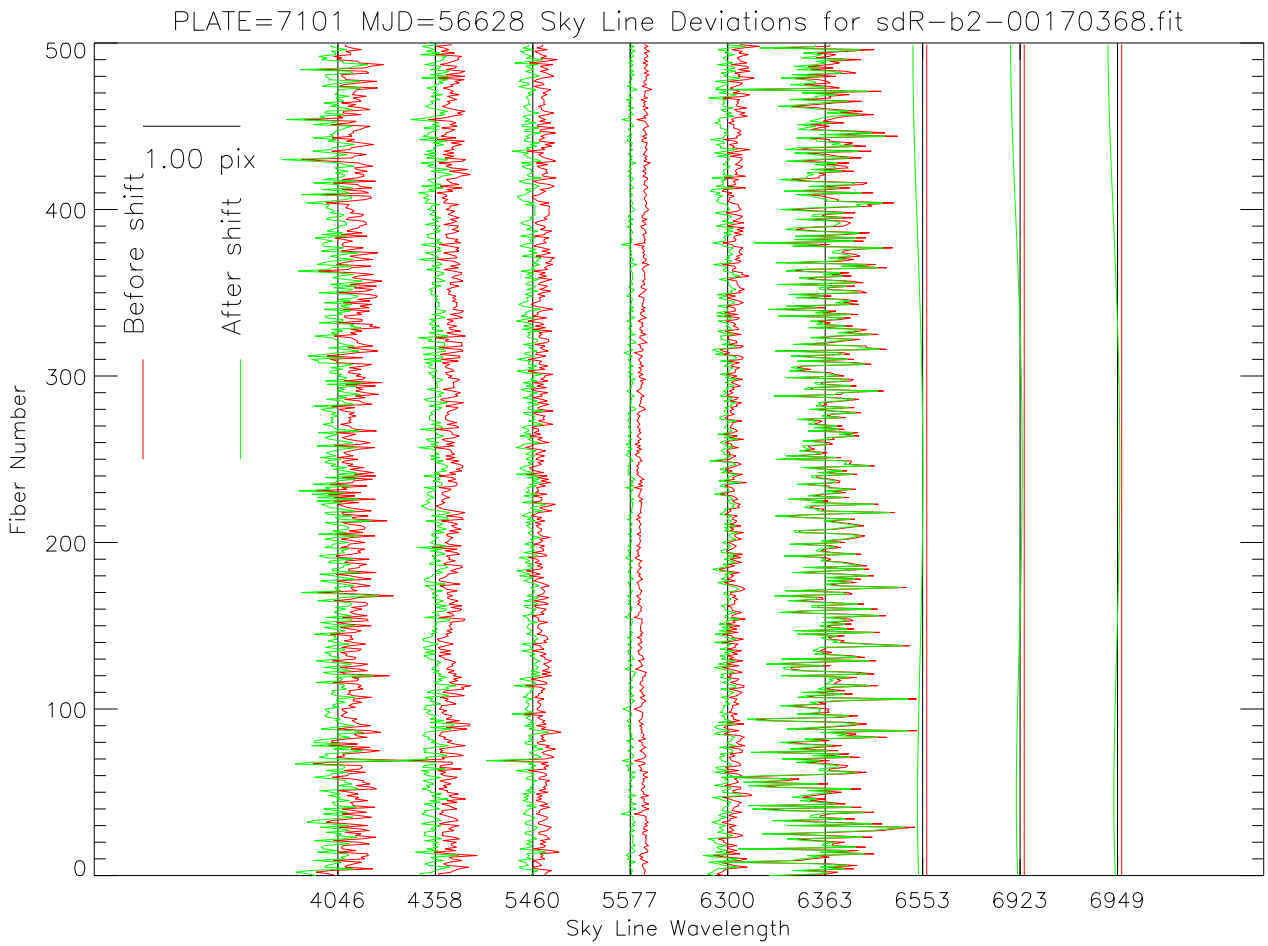


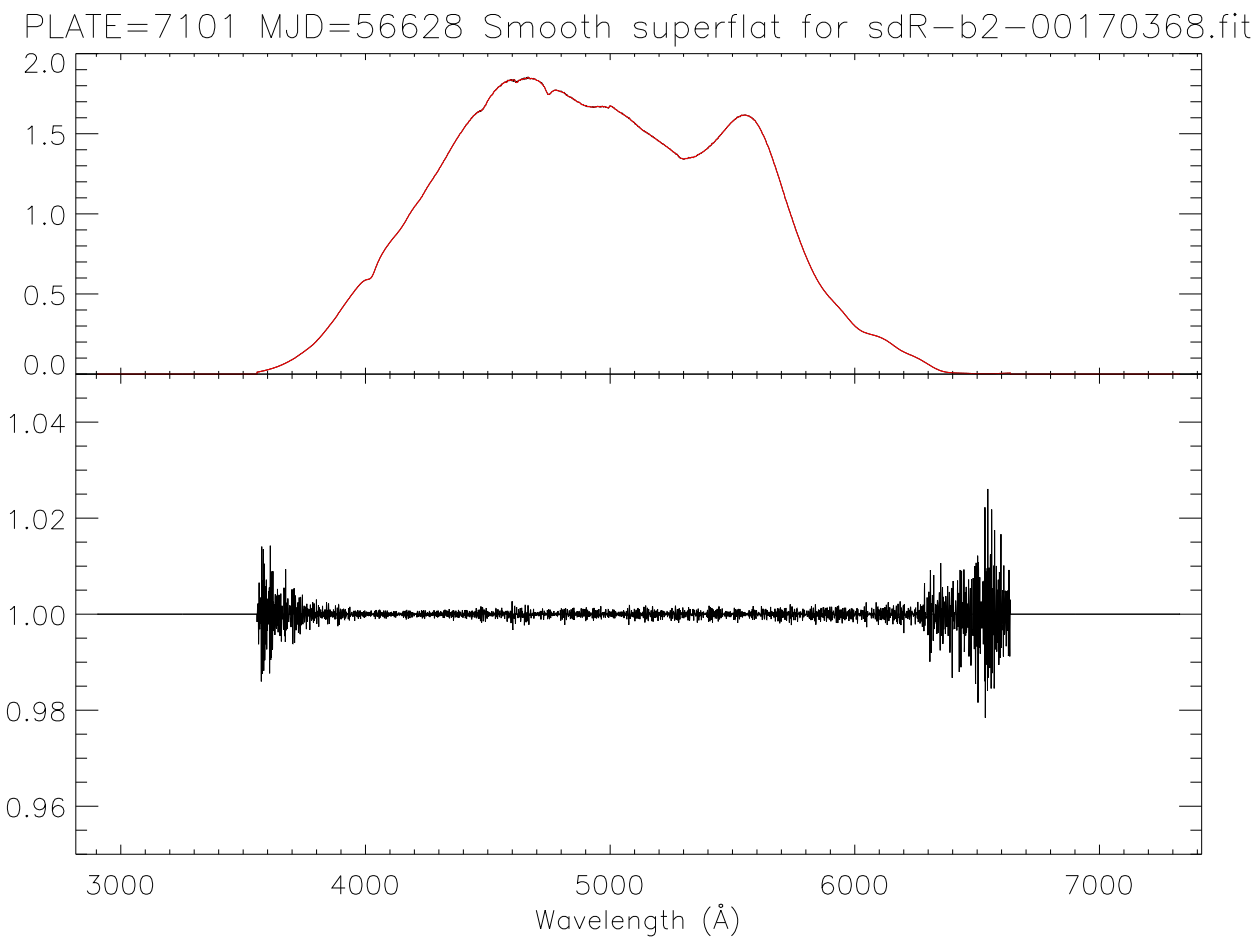

PLATE=7101 MJD=56628 sdR-b2-00170367.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 16.25 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

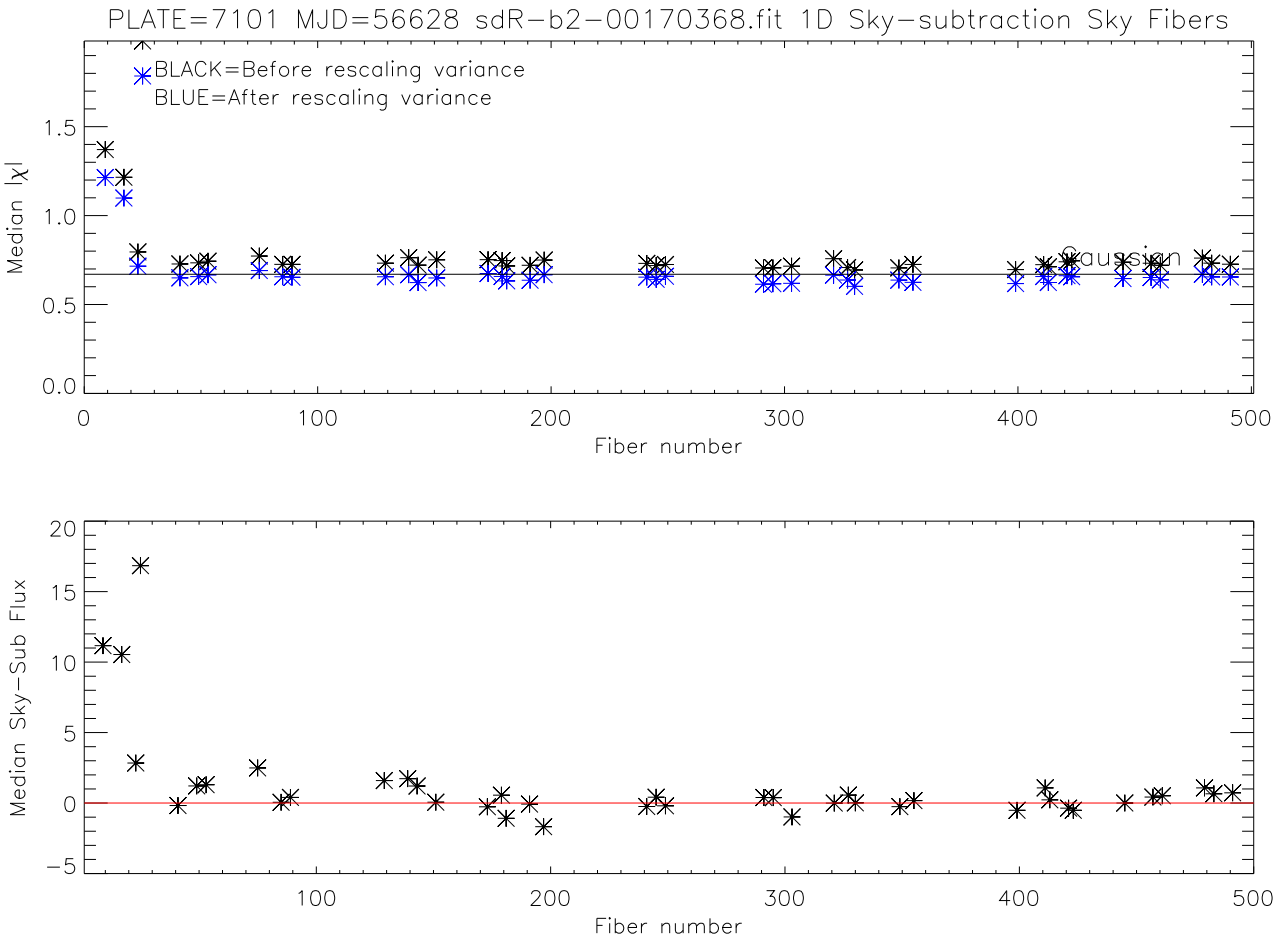

PLATE=7101 MJD=56628 sdR-b2-00170367.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 0.74 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

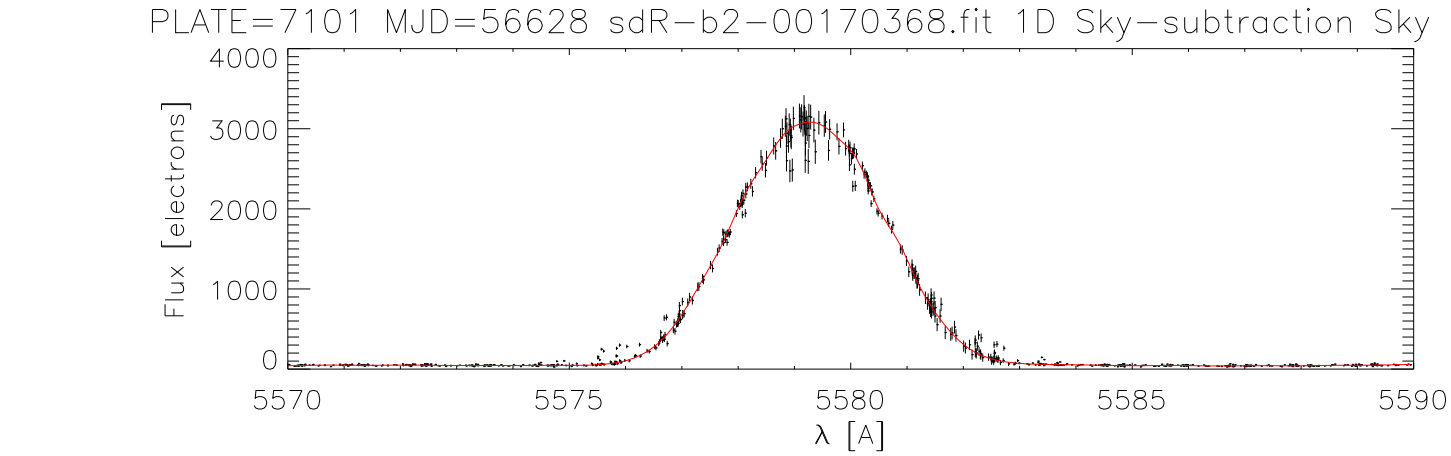

PLATE=7101 MJD=56628 Fiber−Flats for sdR−b2−00170366.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −1.568
Max value = 2.157
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Tue Apr 15 20:07:17 2014

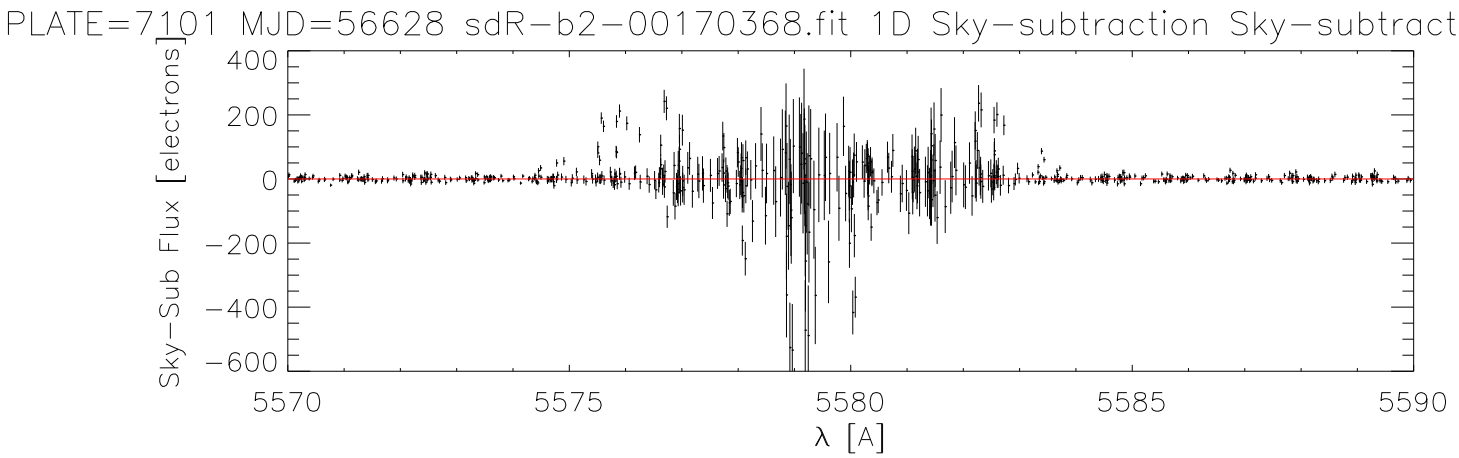

PLATE=7101 MJD=56628 Extraction chi^2 for sdR−b2−00170368.fit
BLACK = Final chisq extraction
χ^2
0.0
0.5
1.0
1.5
0
1000
2000
3000
4000
Row number


PLATE=7101 MJD=56628 Sky Line Deviations for sdR-b2-00170368.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

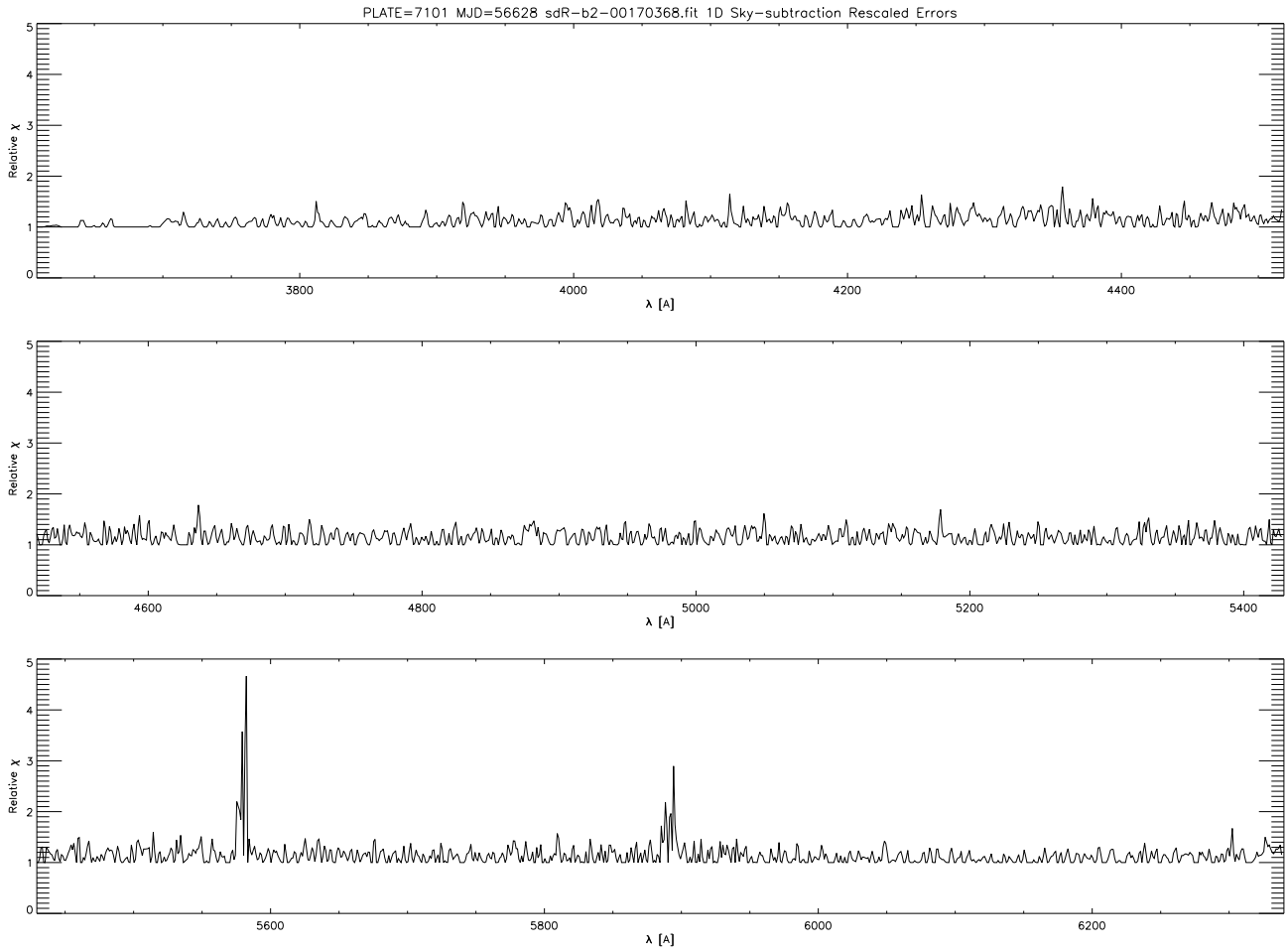

PLATE=7101 MJD=56628 Smooth superflat for sdR-b2-00170368.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

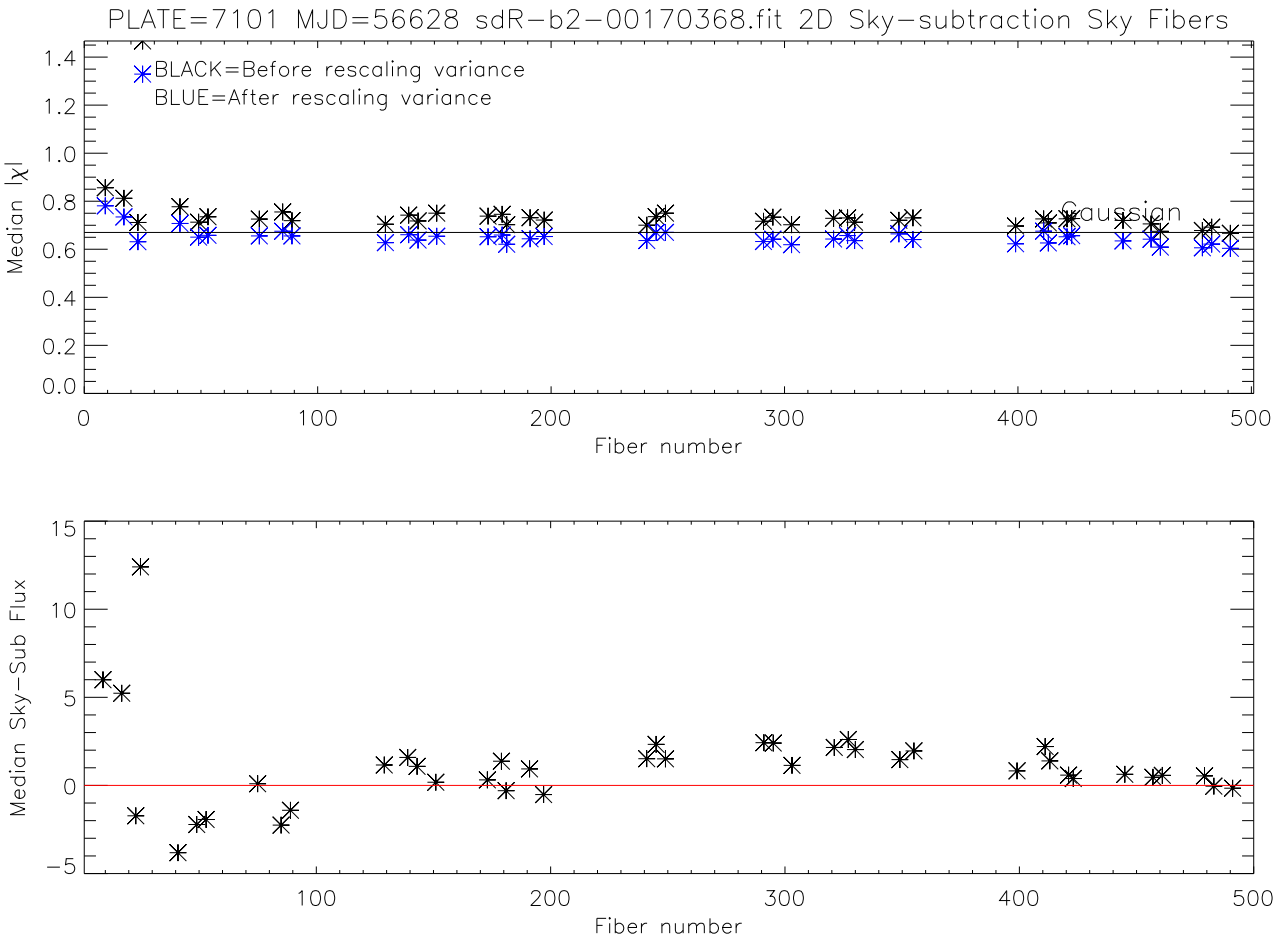

PLATE=7101 MJD=56628 sdR-b2-00170368.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Median |χ|
Fiber number
Gaussian
Median Sky-Sub Flux
Fiber number


PLATE=7101 MJD=56628 sdR-b2-00170368.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

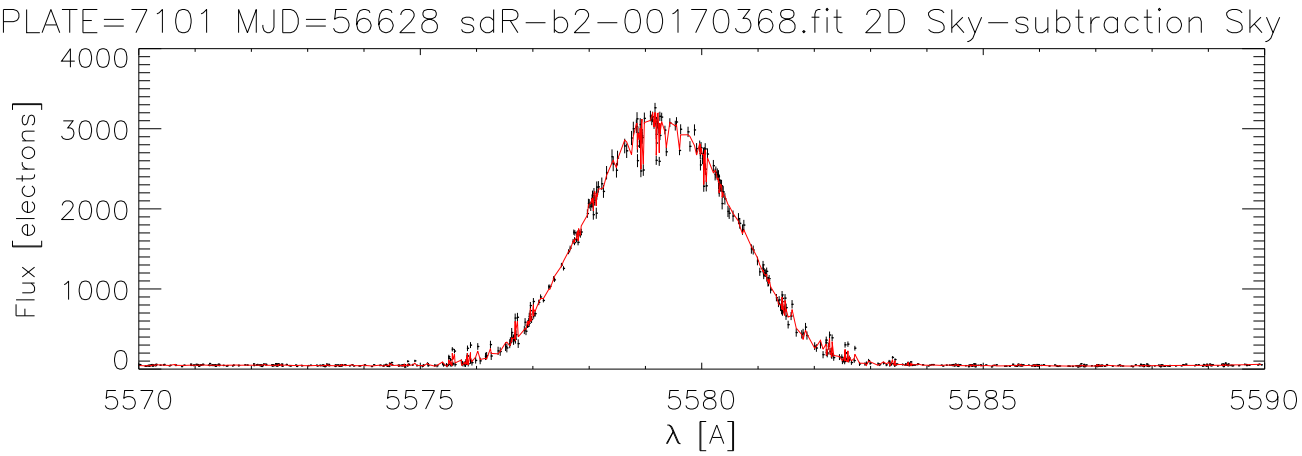

PLATE=7101 MJD=56628 sdR-b2-00170368.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

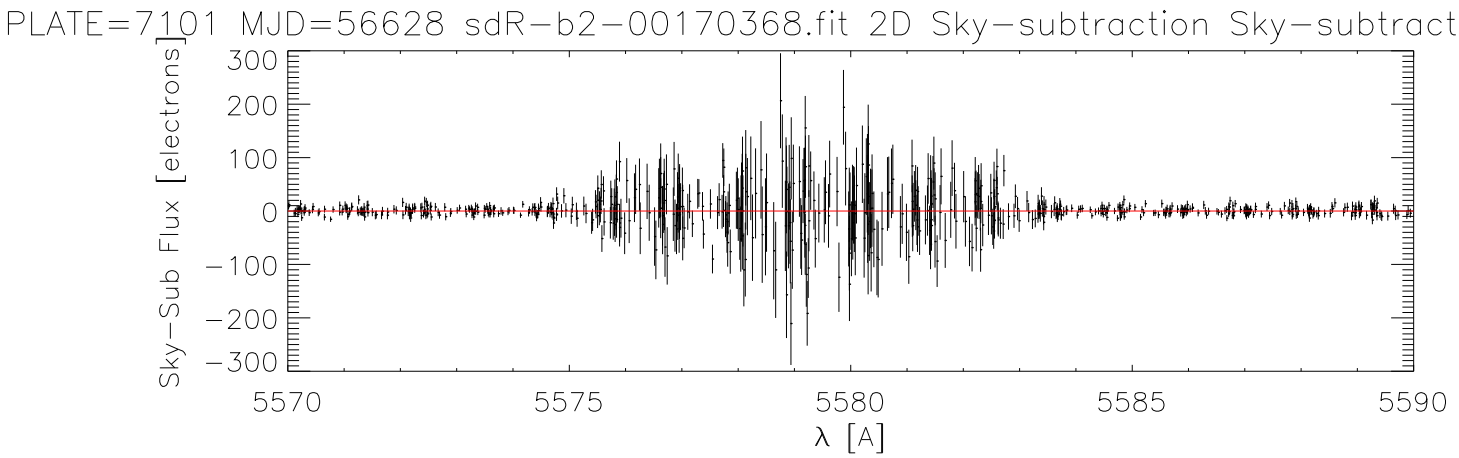
Number of sky fibers = 41



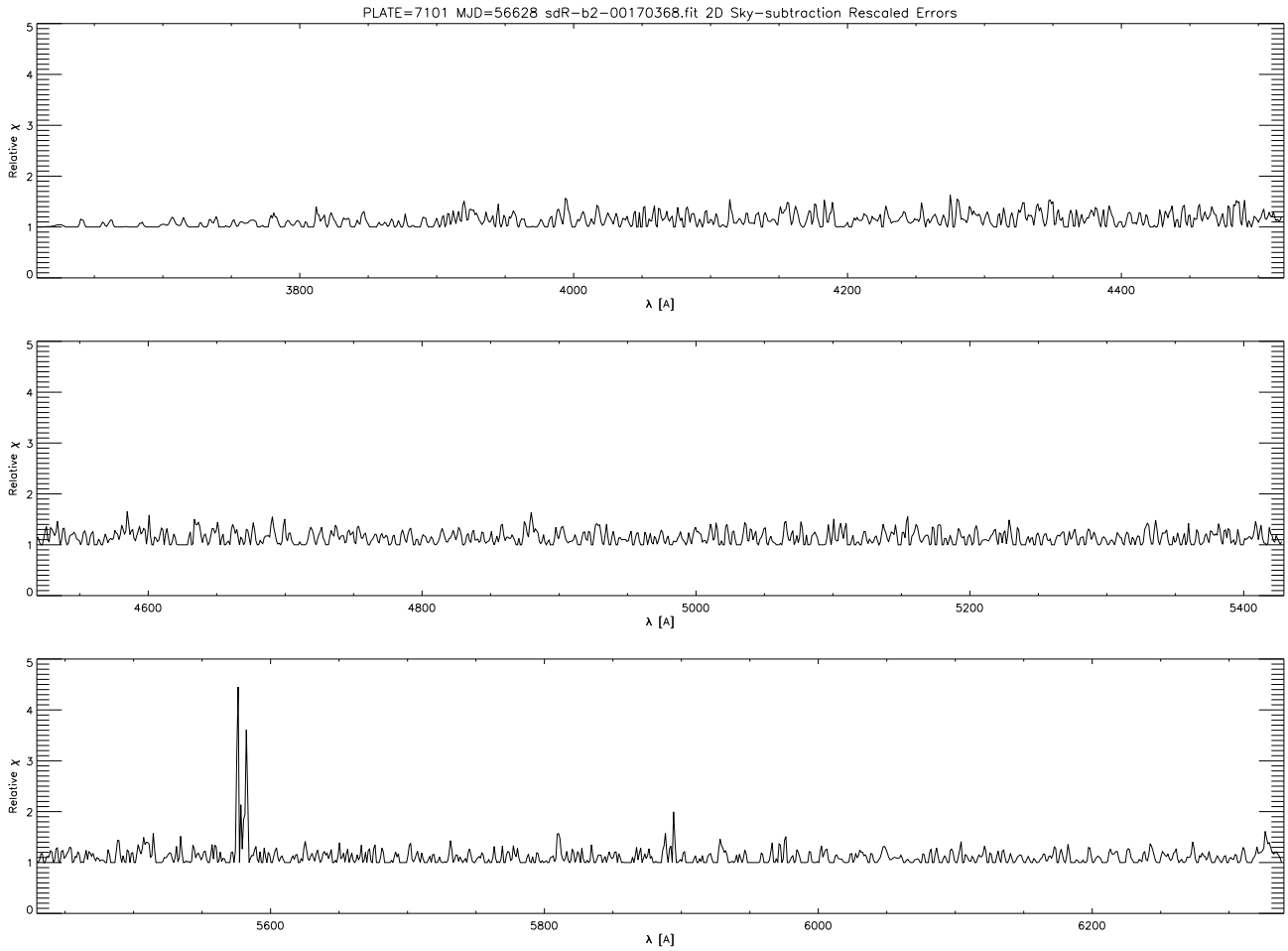

PLATE=7101 MJD=56628 sdR-b2-00170368.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number

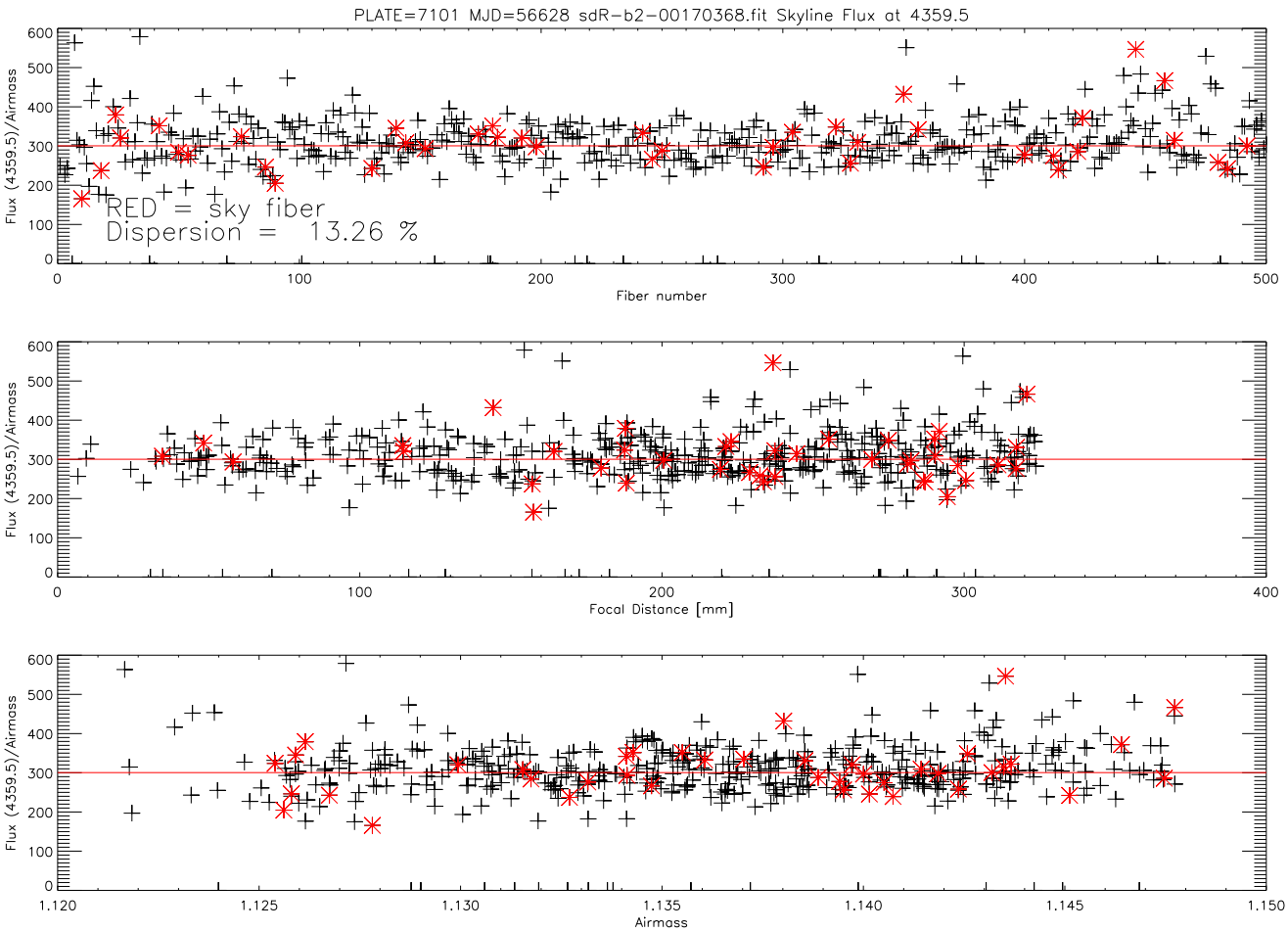
Median Sky-Sub Flux
Fiber number

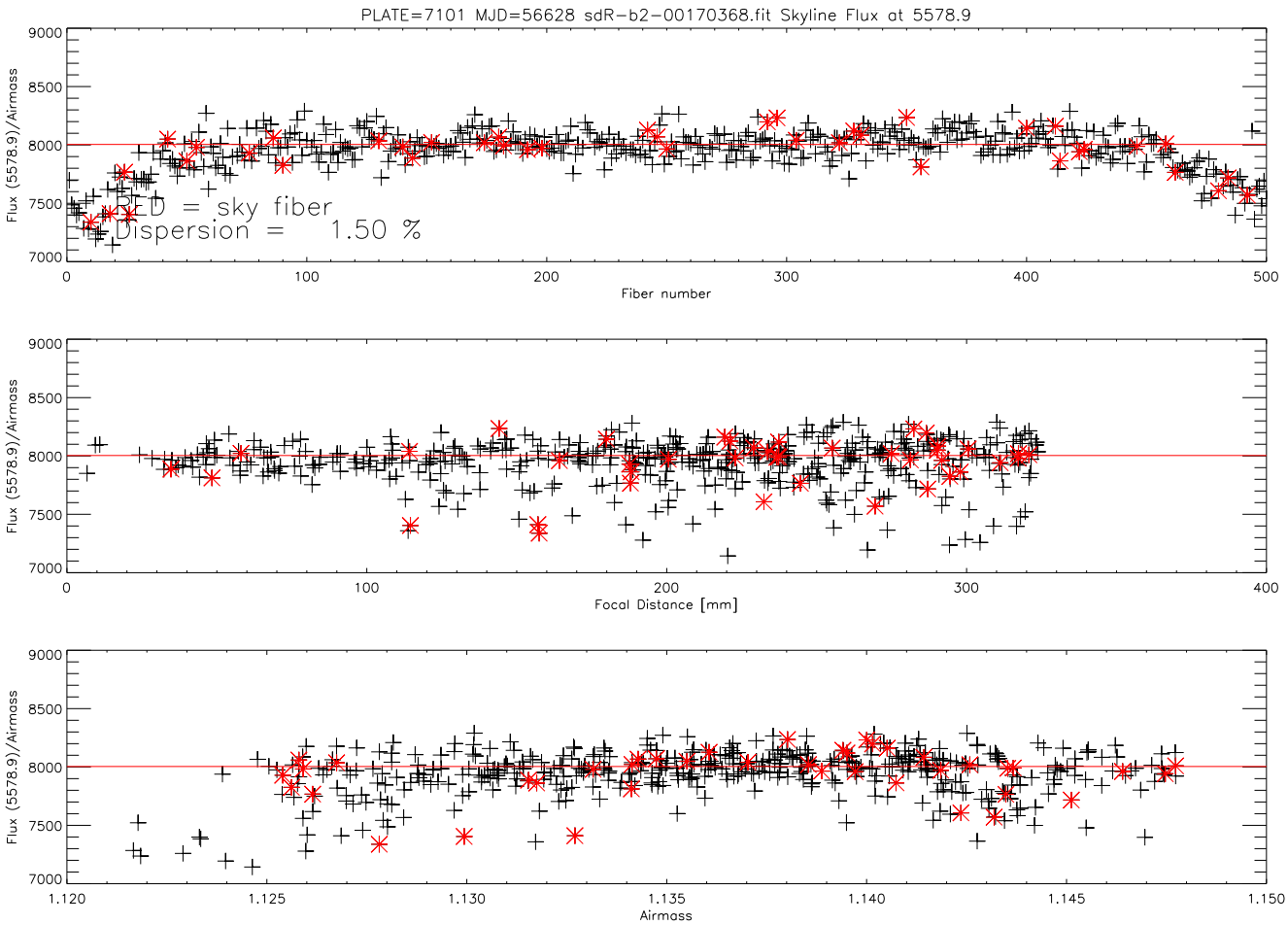

PLATE=7101 MJD=56628 sdR-b2-00170368.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

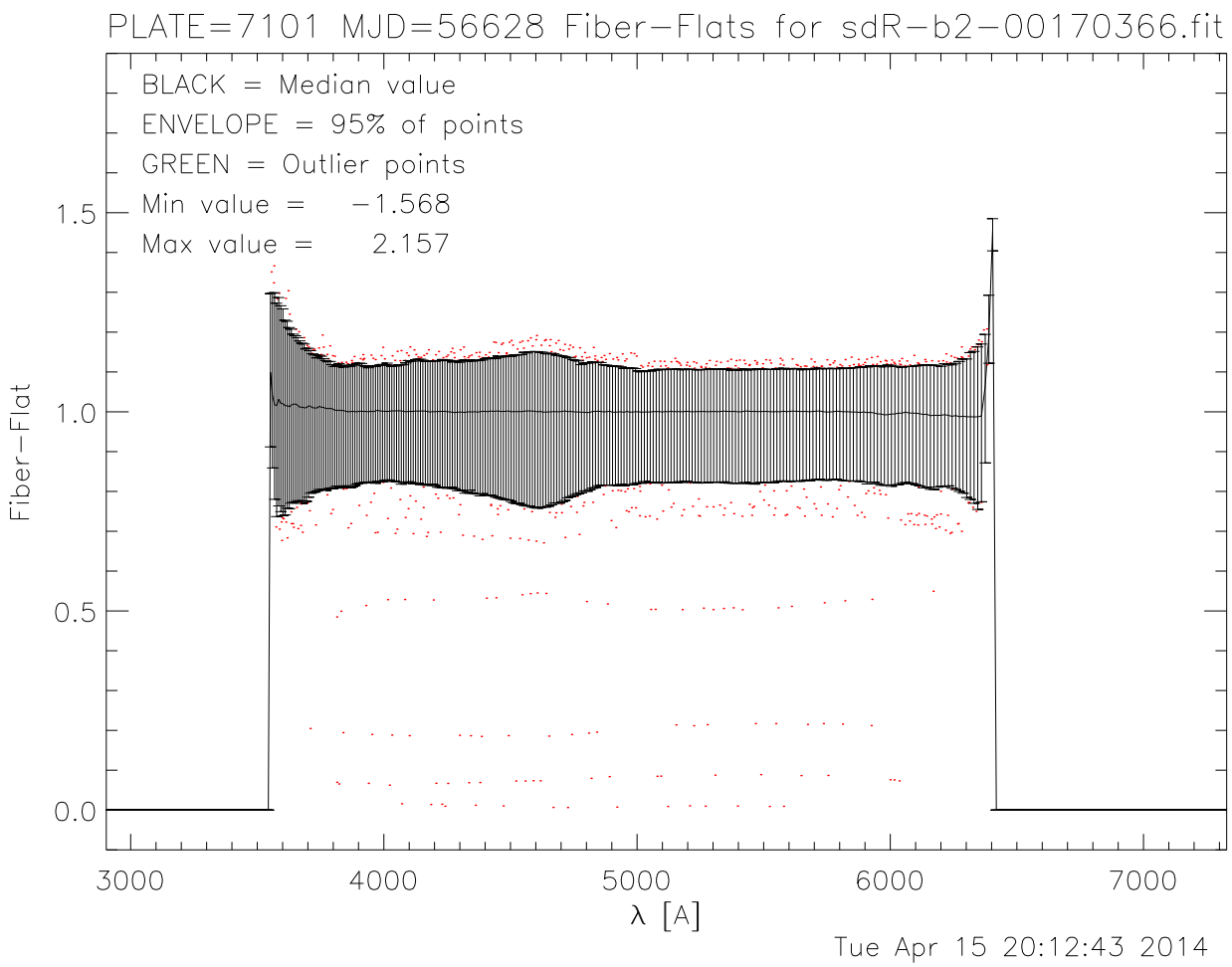

PLATE=7101 MJD=56628 sdR-b2-00170368.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

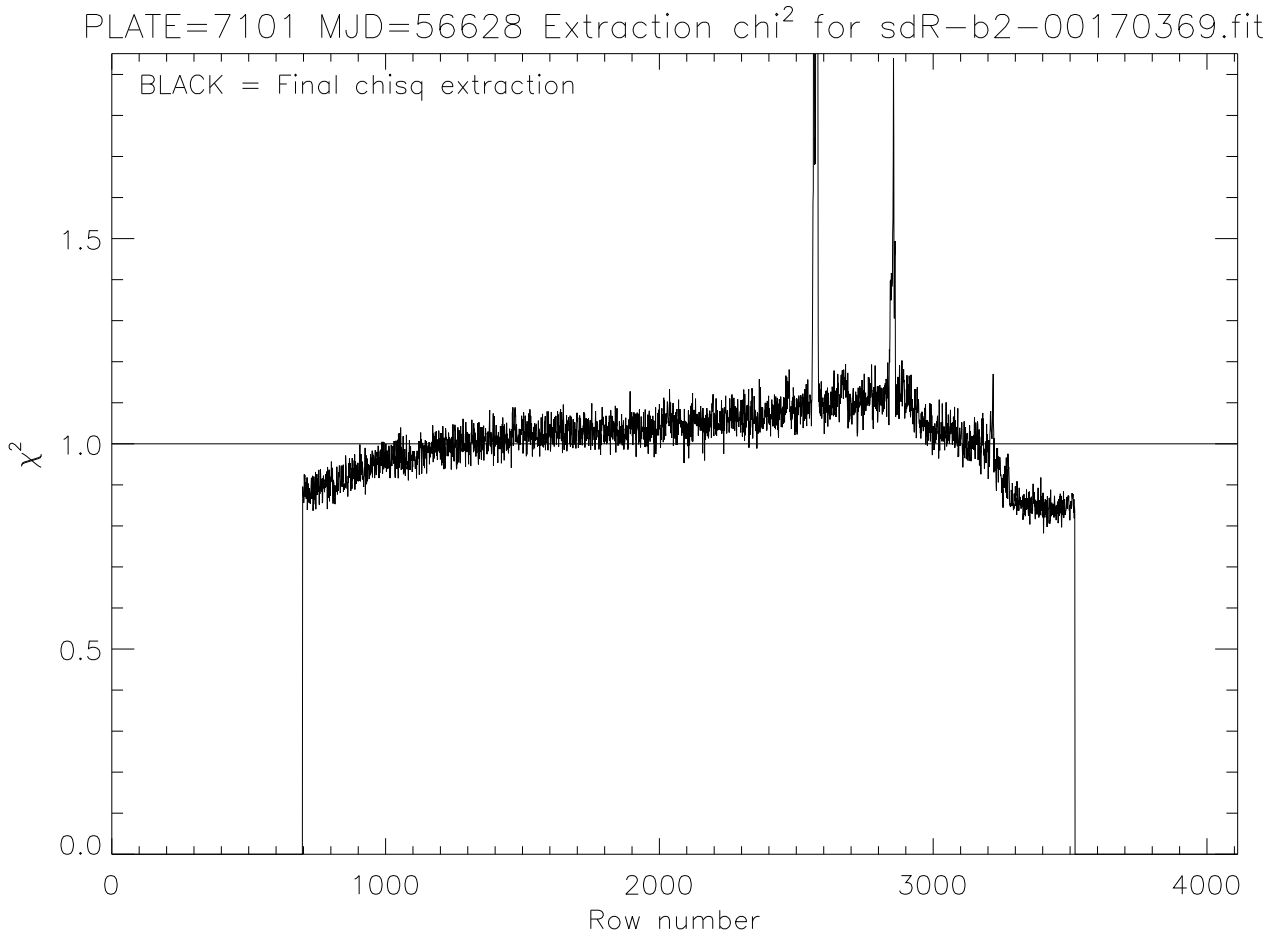
Number of sky fibers = 41

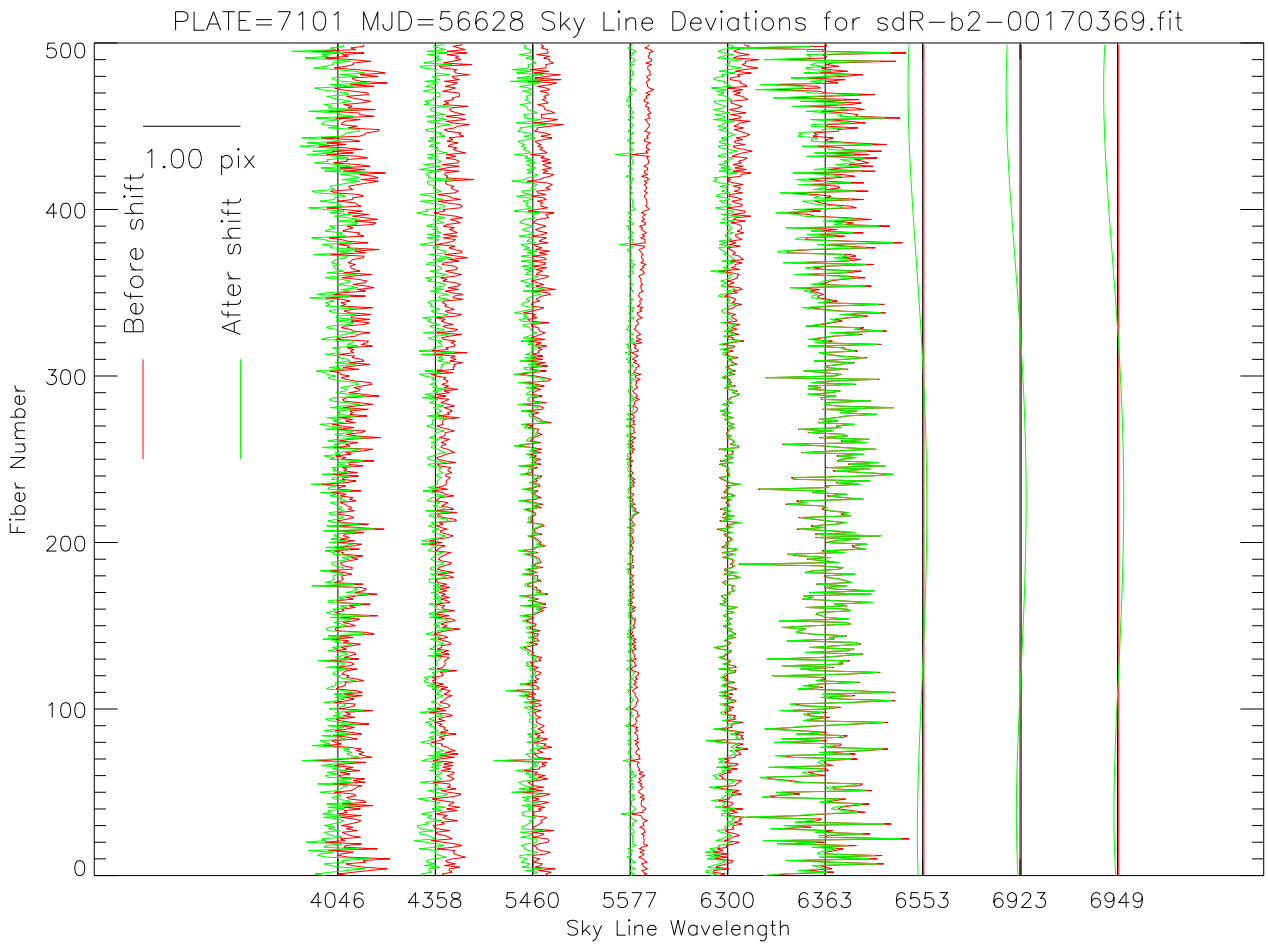


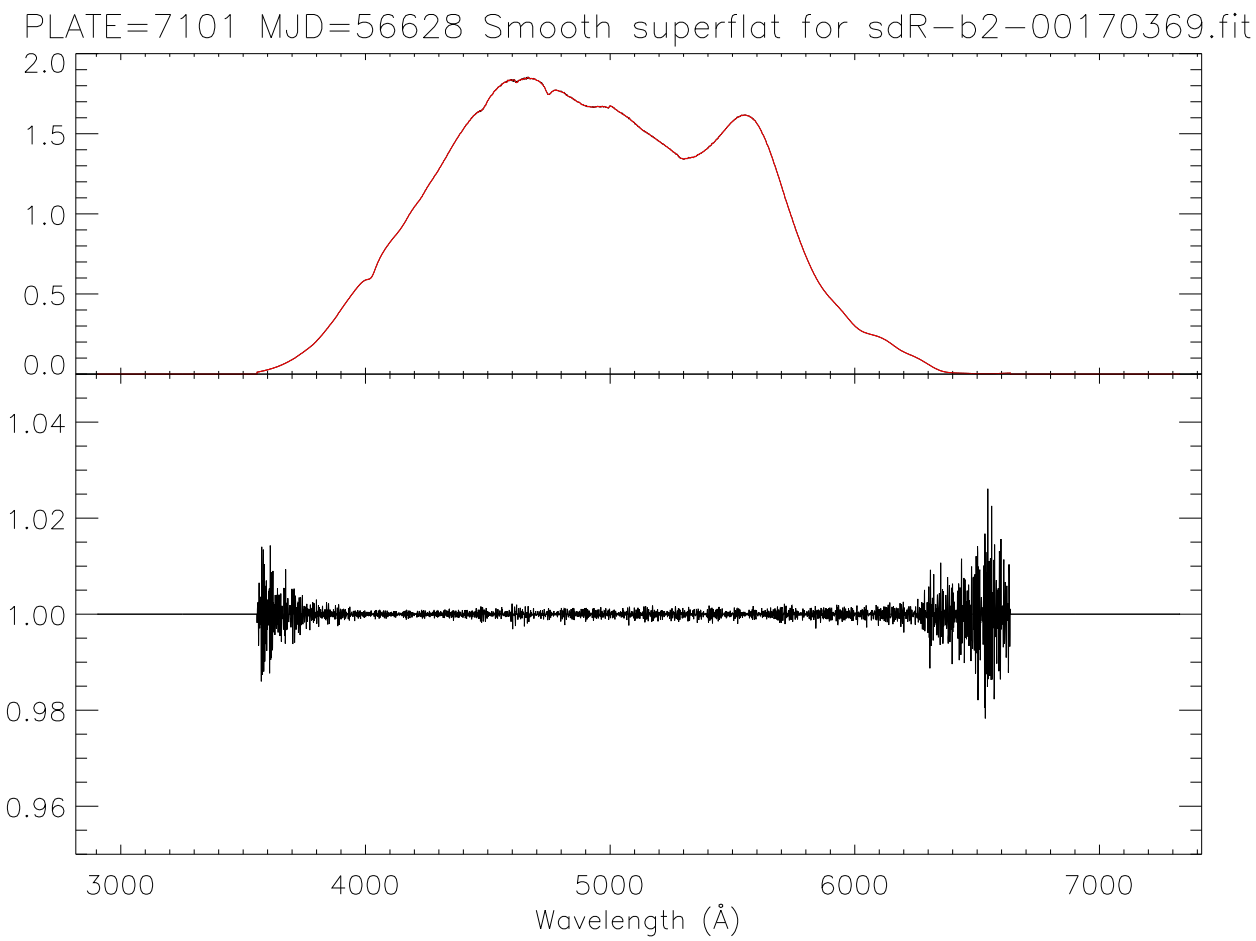

PLATE=7101 MJD=56628 sdR-b2-00170368.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 13.26 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

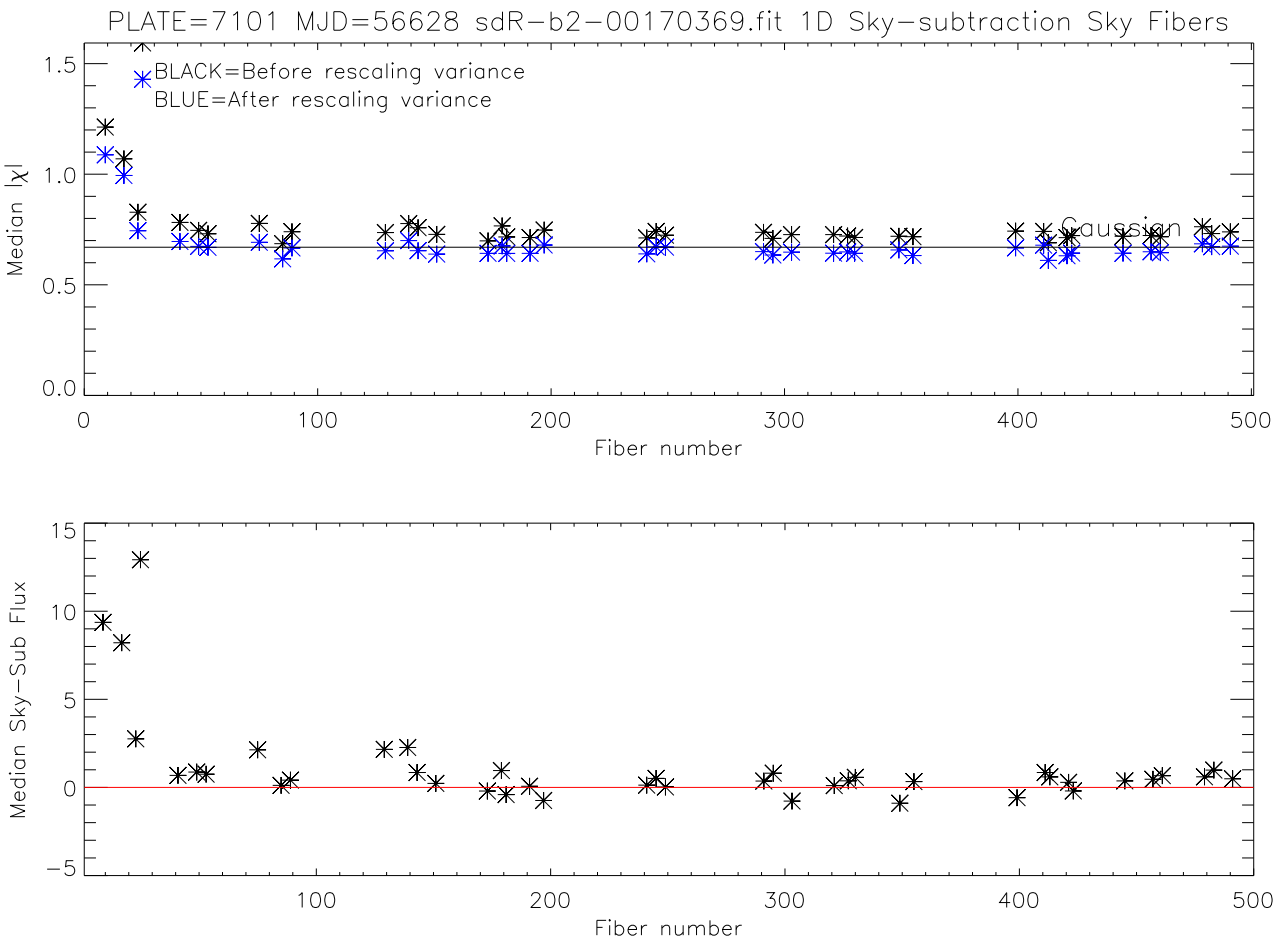

PLATE=7101 MJD=56628 sdR-b2-00170368.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
9000
8500
8000
7500
7000
0
100
200
300
400
500
Fiber number
XED = sky fiber
Dispersion = 1.50 %
Flux (5578.9)/Airmass
9000
8500
8000
7500
7000
0
100
200
300
400
Focal Distance [mm]
Flux (5578.9)/Airmass
9000
8500
8000
7500
7000
1.120
1.125
1.130
1.135
1.140
1.145
1.150
Airmass

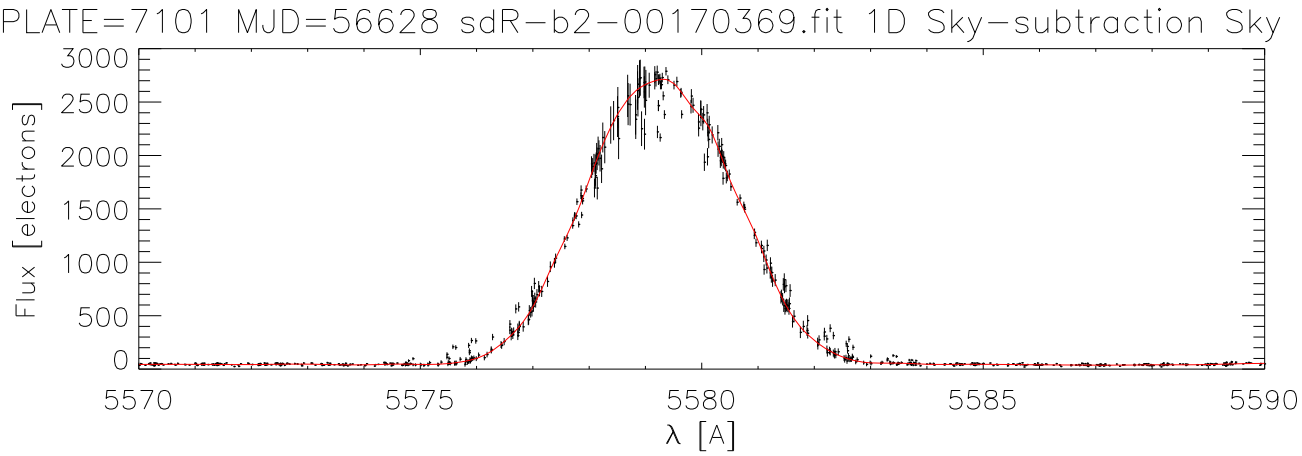

PLATE=7101 MJD=56628 Fiber−Flats for sdR−b2−00170366.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −1.568
Max value = 2.157
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Tue Apr 15 20:12:43 2014

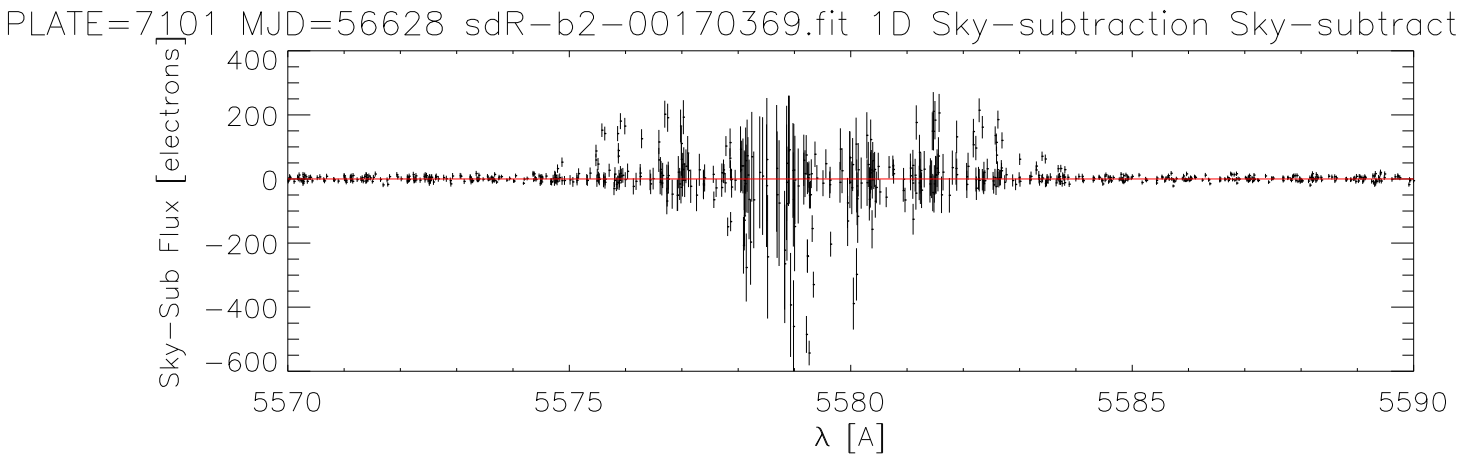

PLATE=7101 MJD=56628 Extraction chi^2 for sdR−b2−00170369.fit
BLACK = Final chisq extraction
χ^2
1.5
1.0
0.5
0.0
0
1000
2000
3000
4000
Row number


PLATE=7101 MJD=56628 Sky Line Deviations for sdR-b2-00170369.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

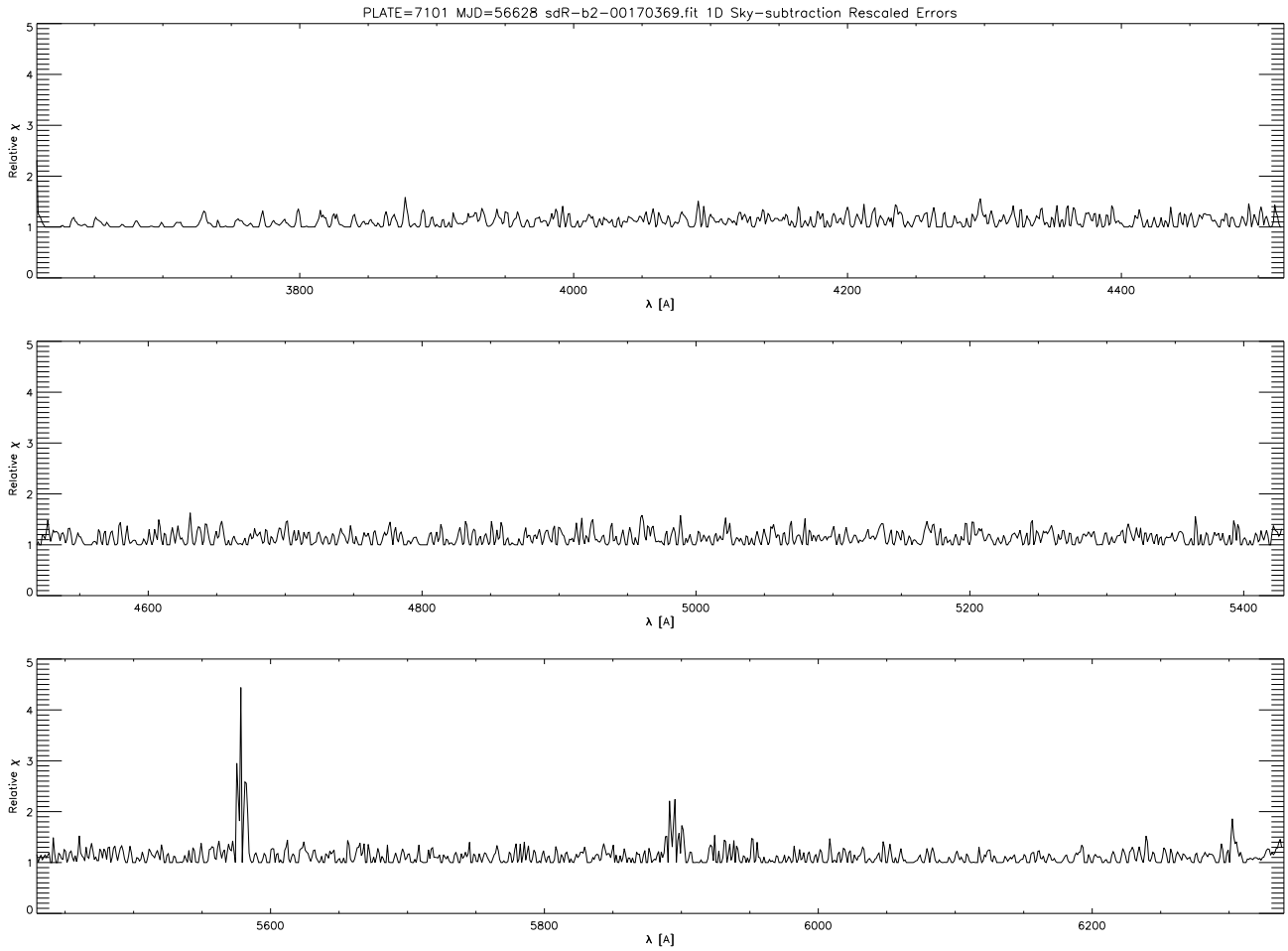

PLATE=7101 MJD=56628 Smooth superflat for sdR-b2-00170369.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

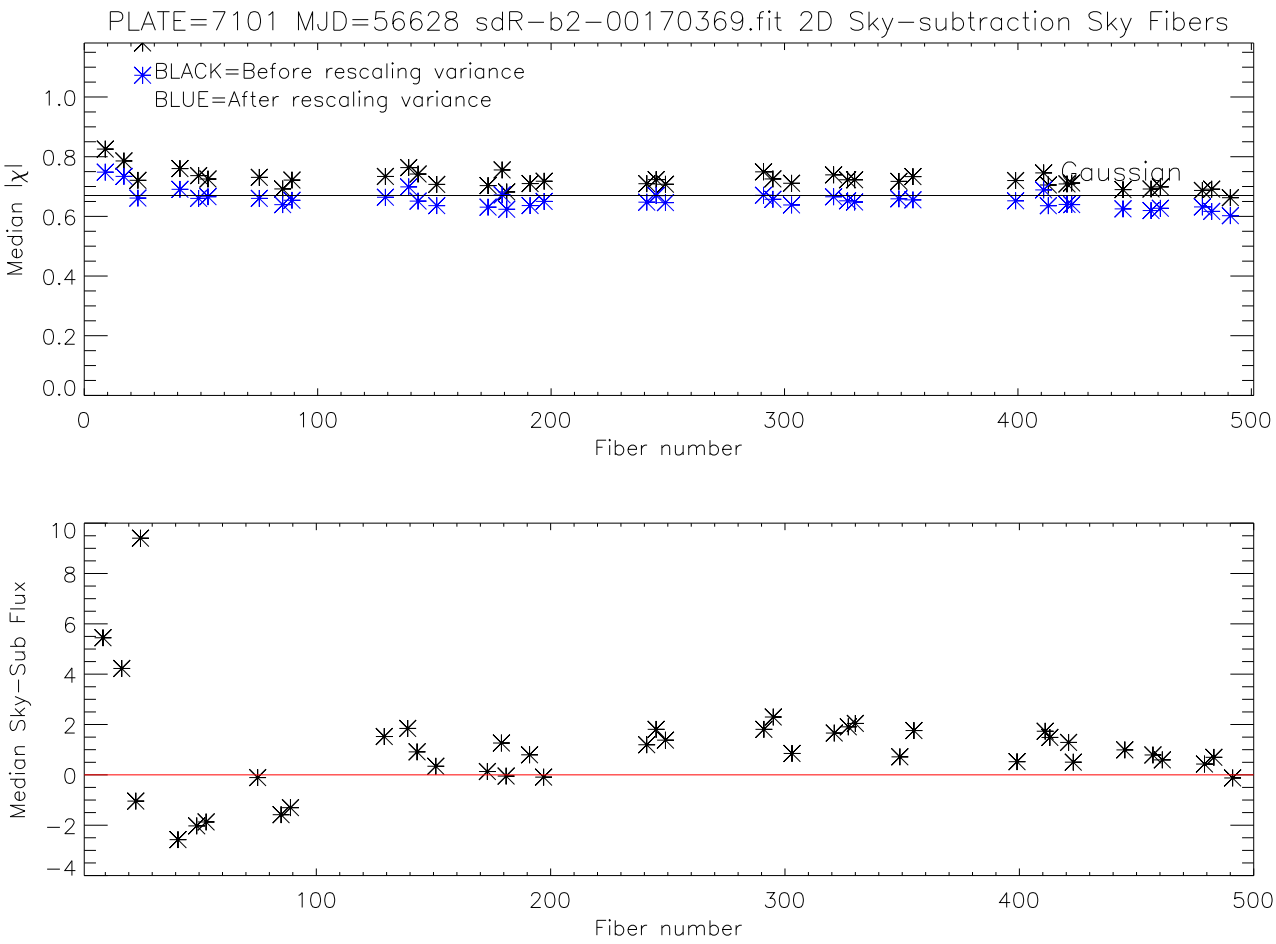

PLATE=7101 MJD=56628 sdR-b2-00170369.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Median |χ|
Gaussian
Fiber number
Median Sky-Sub Flux
Fiber number

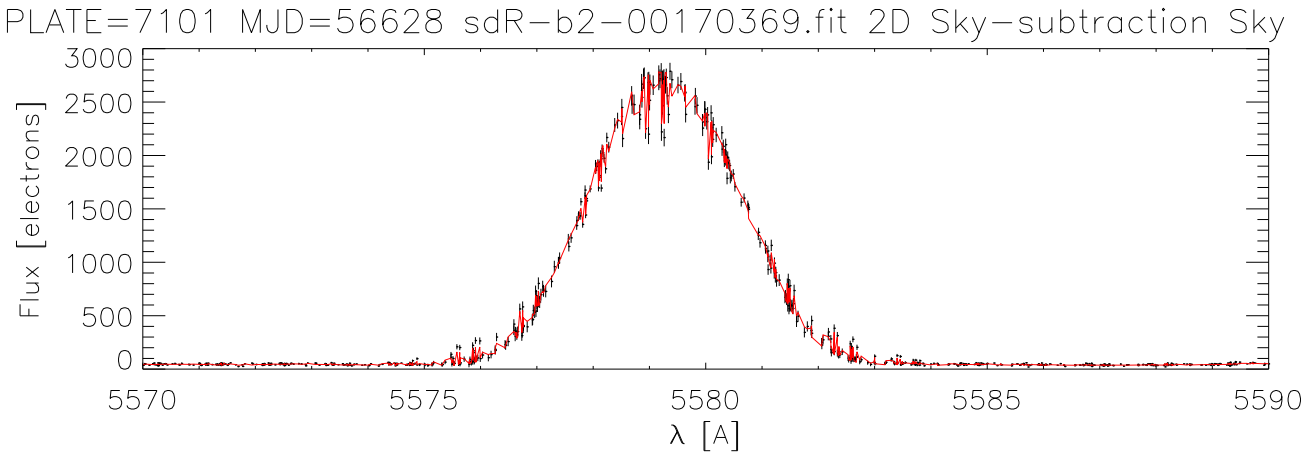

PLATE=7101 MJD=56628 sdR-b2-00170369.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

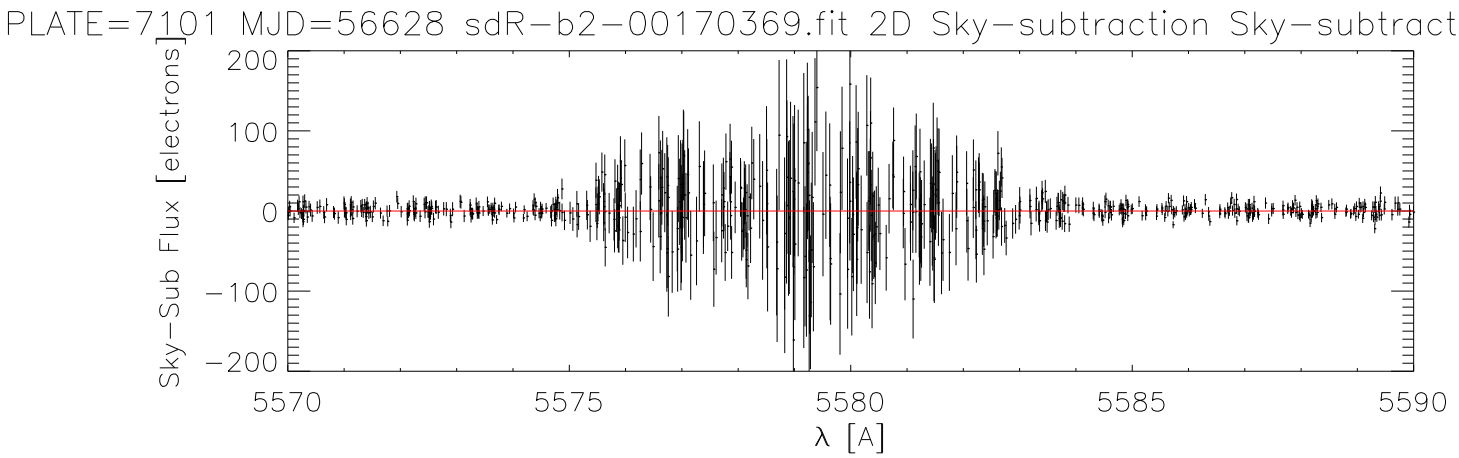

PLATE=7101 MJD=56628 sdR-b2-00170369.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 41

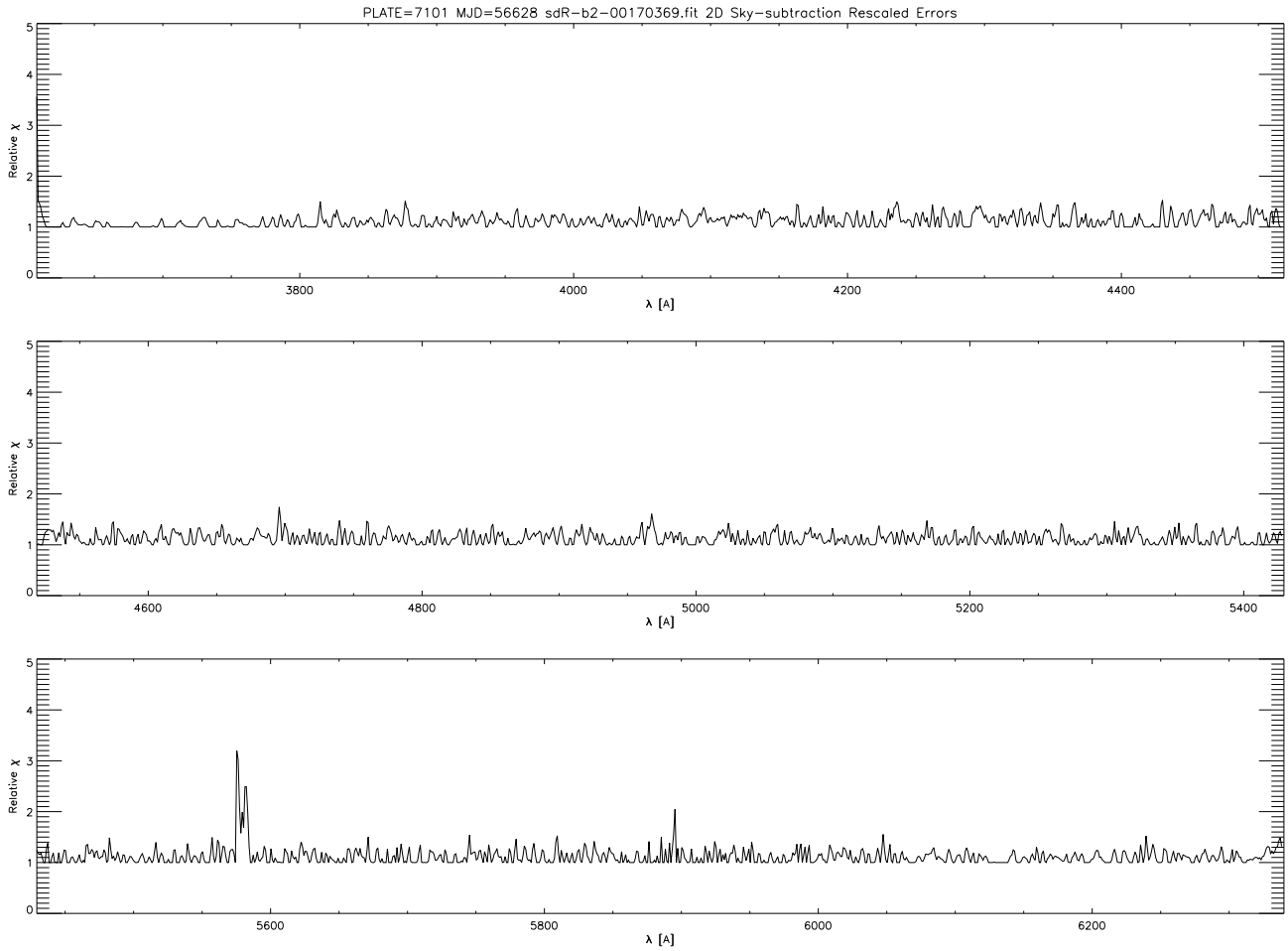


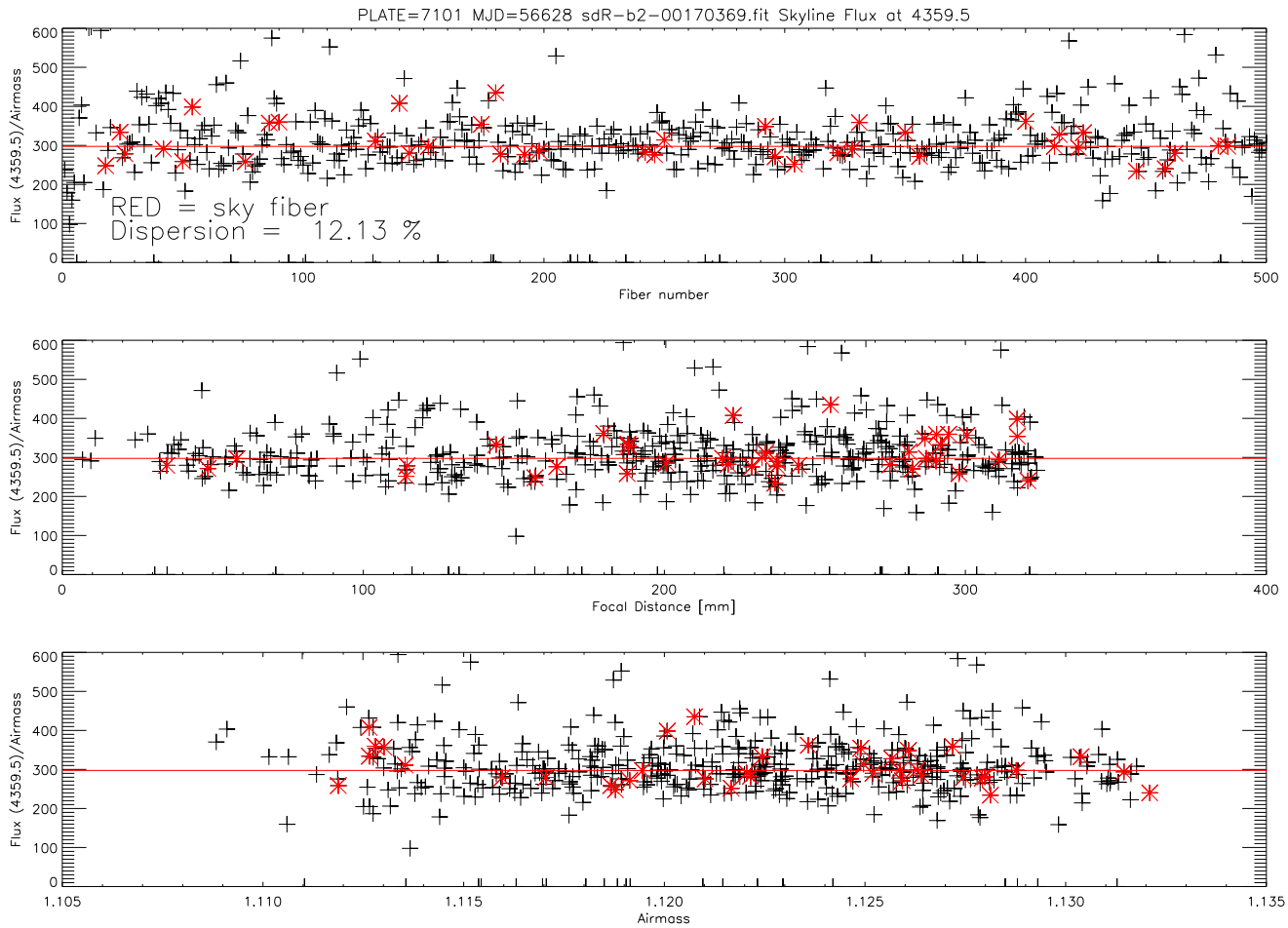

PLATE=7101 MJD=56628 sdR-b2-00170369.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

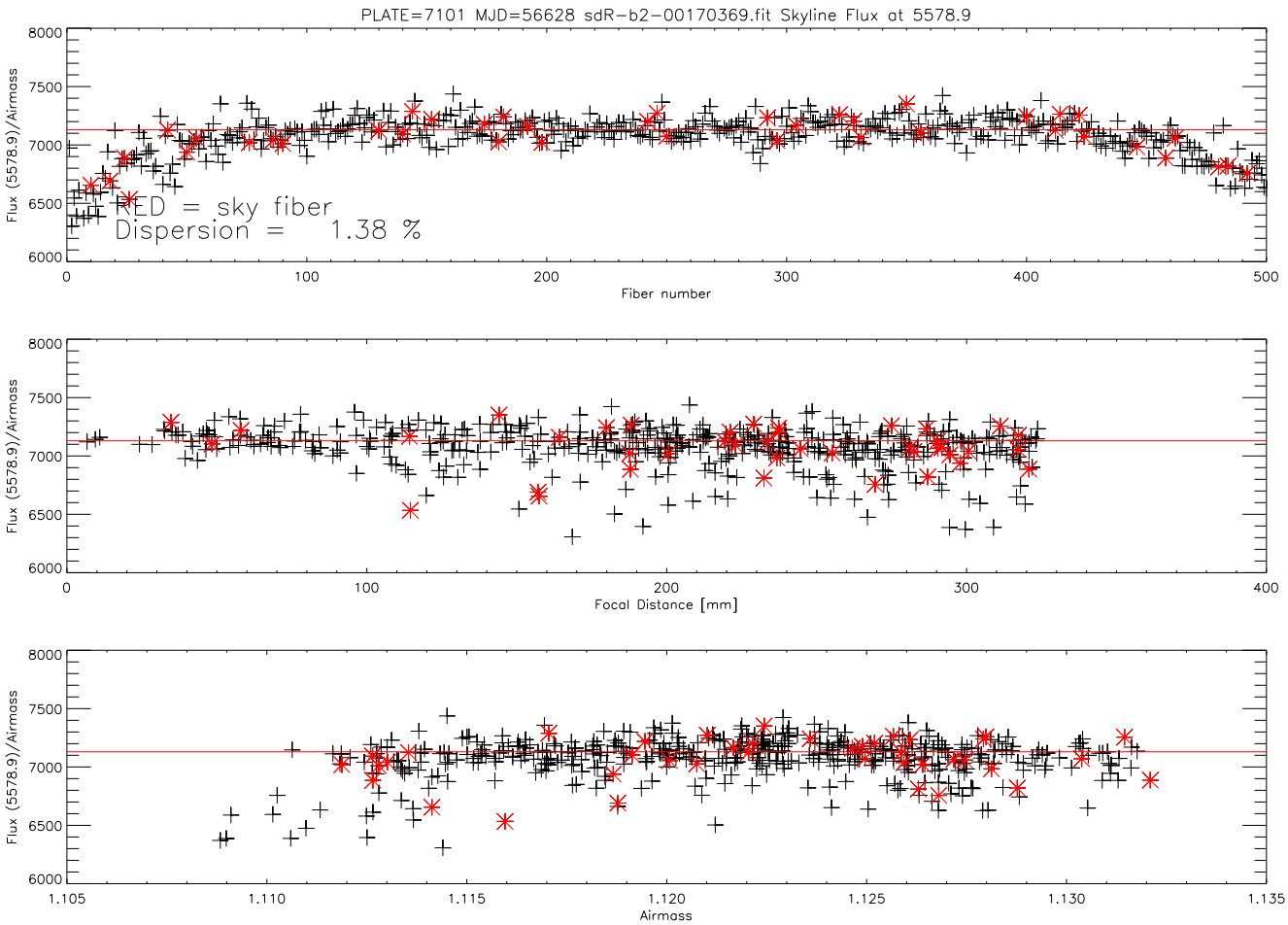

PLATE=7101 MJD=56628 sdR-b2-00170369.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

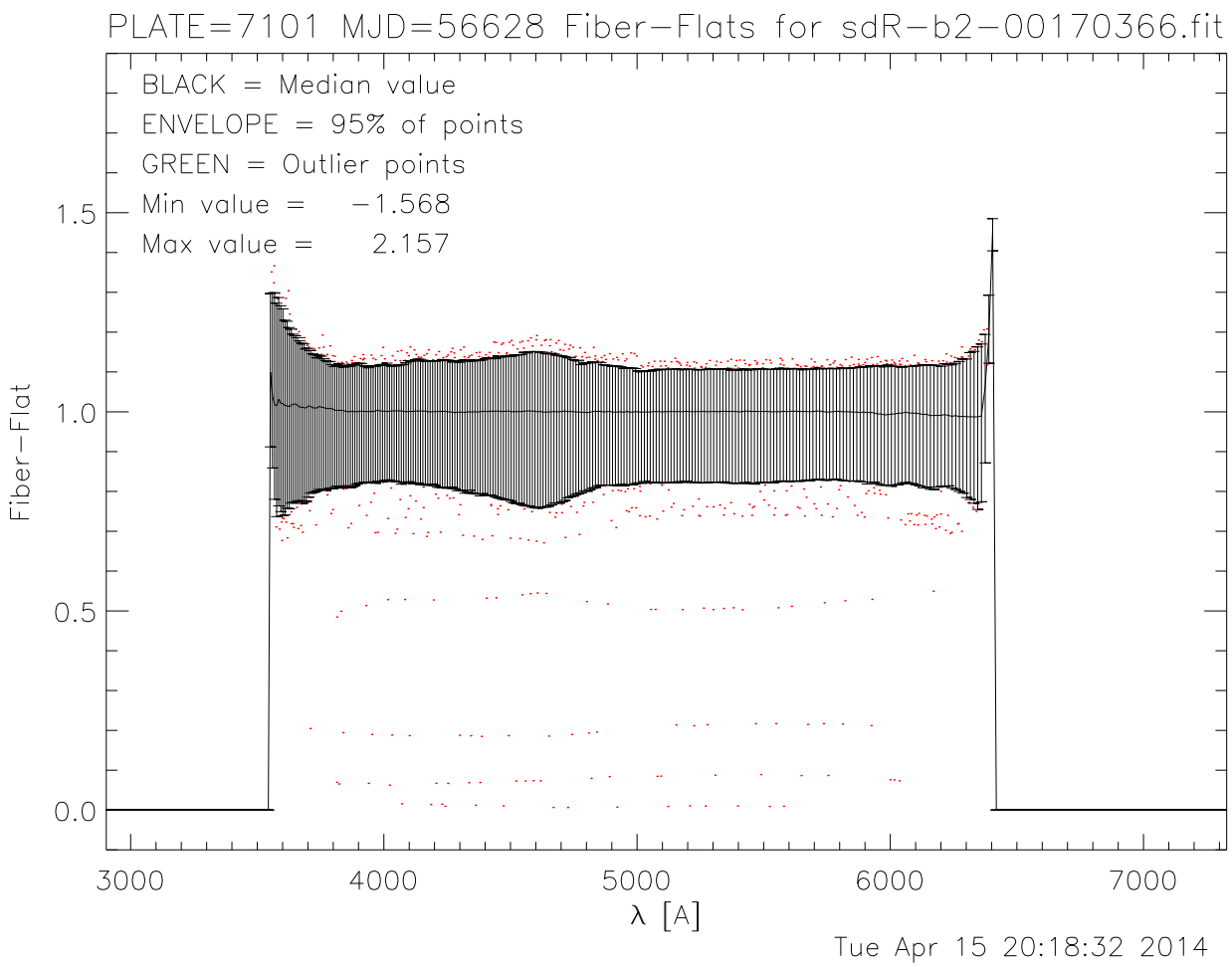

PLATE=7101 MJD=56628 sdR-b2-00170369.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

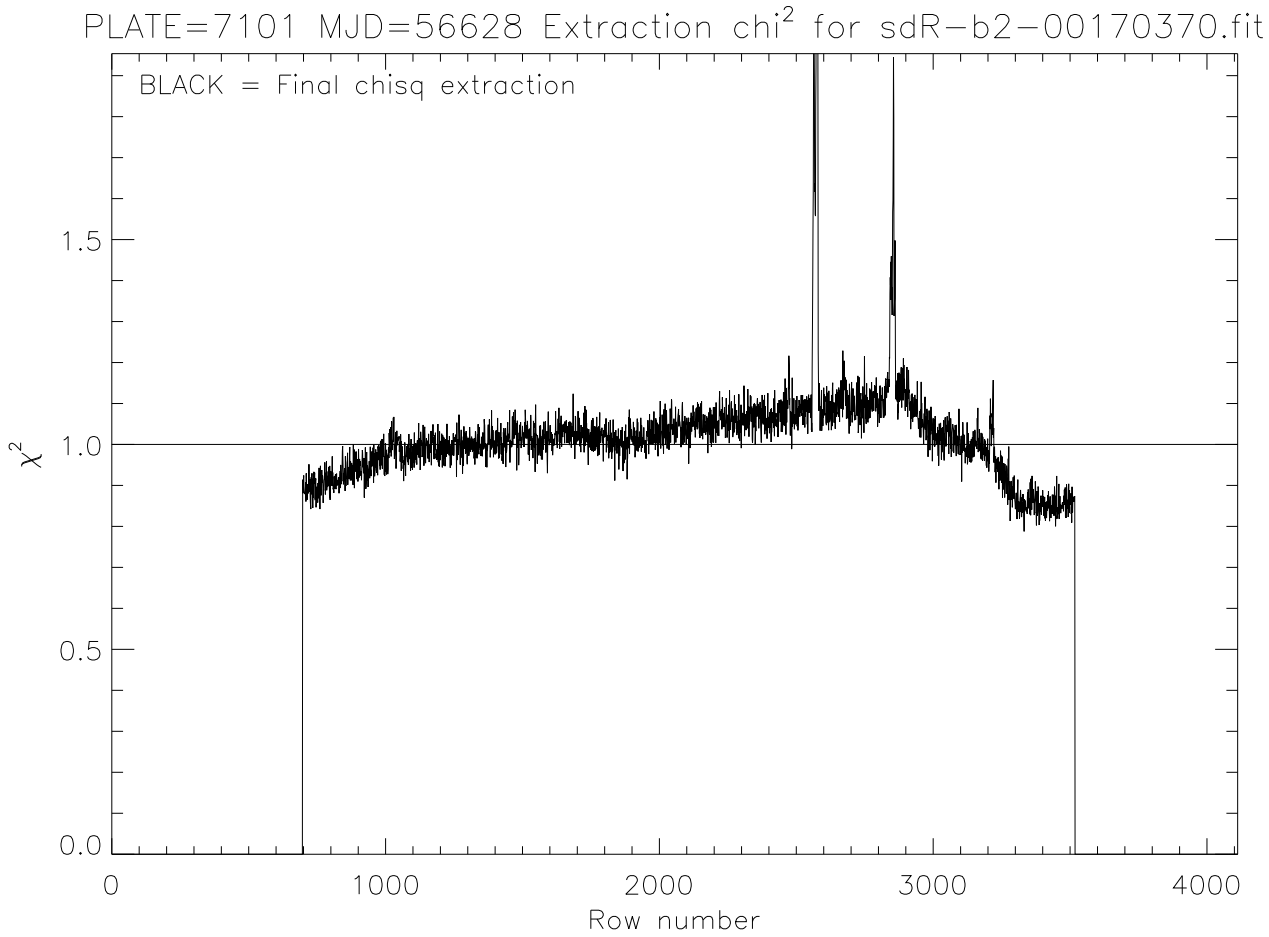
Number of sky fibers = 41

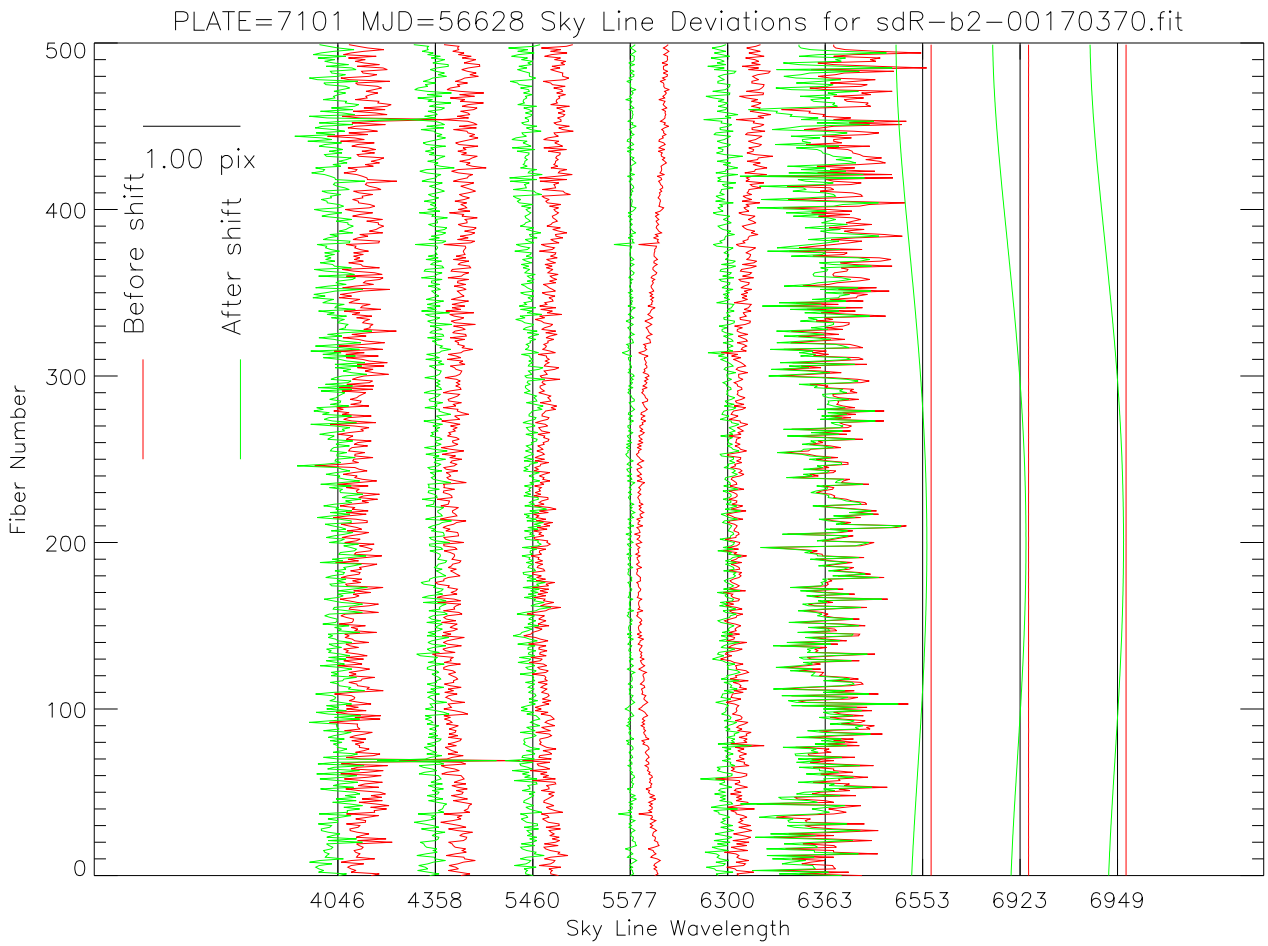


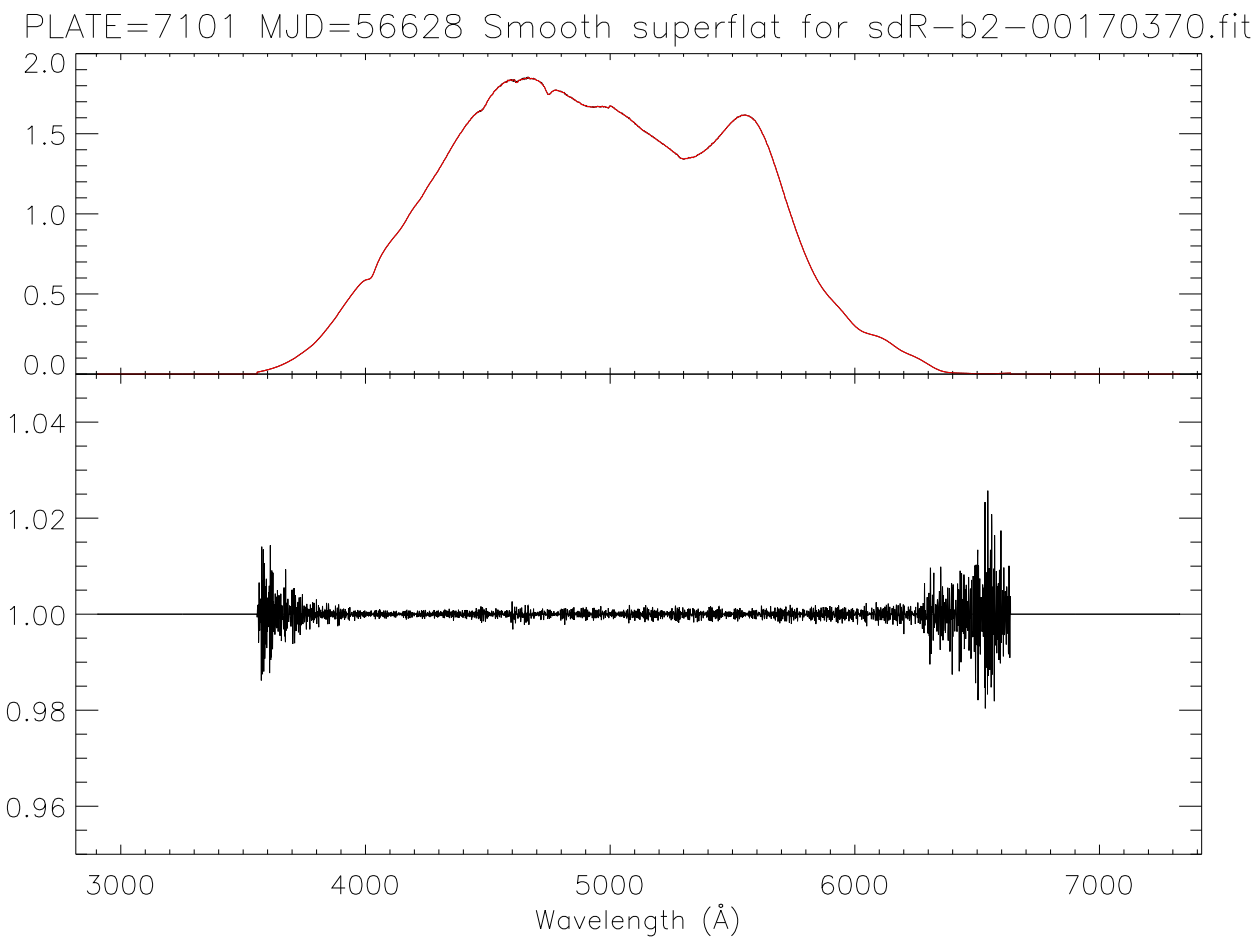

PLATE=7101 MJD=56628 sdR-b2-00170369.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 12.13 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

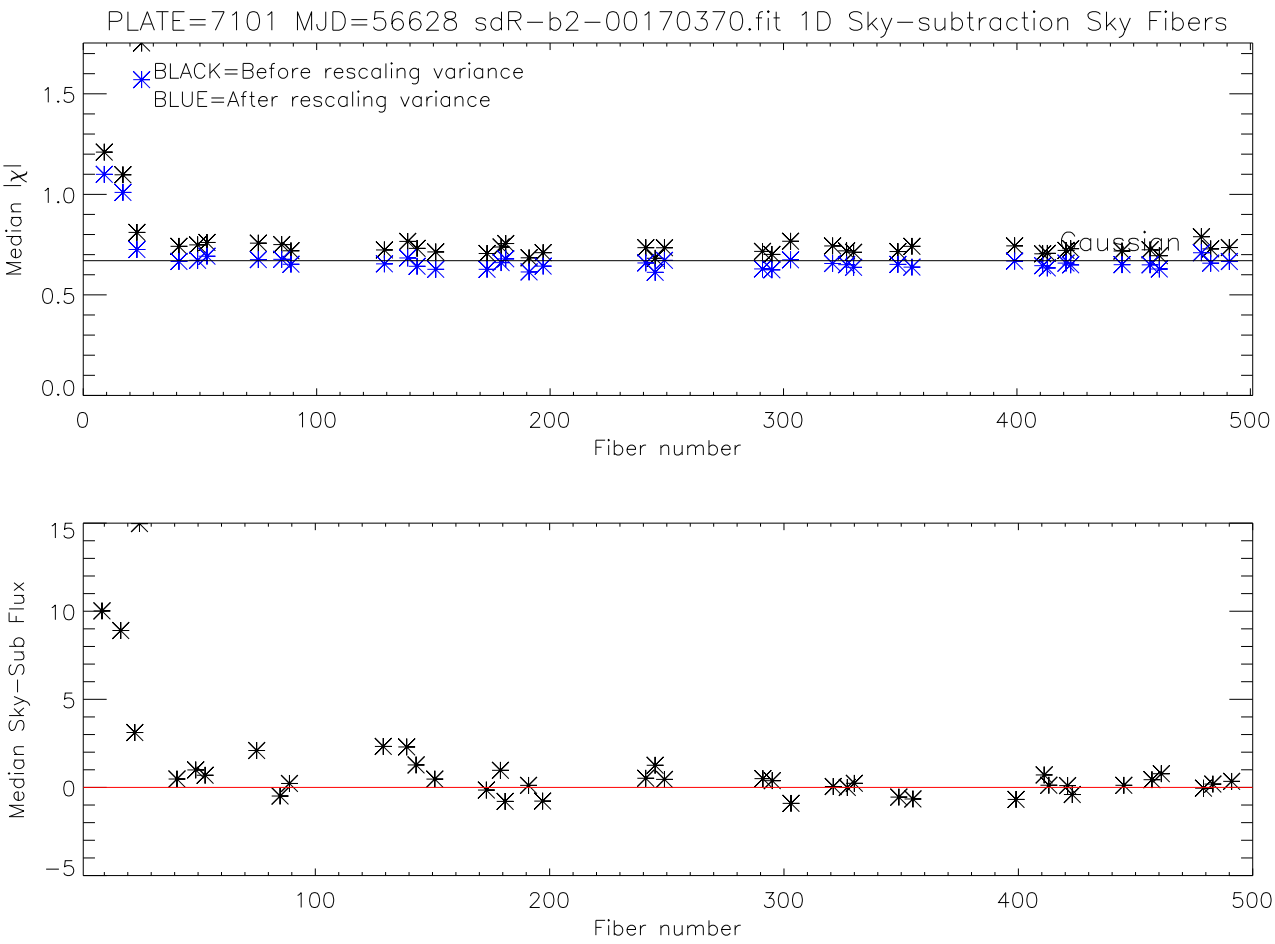

PLATE=7101 MJD=56628 sdR-b2-00170369.fit Skyline Flux at 5578.9
RED = sky fiber
Dispersion = 1.38 %
Flux (5578.9)/Airmass
Fiber number
Focal Distance [mm]
Airmass

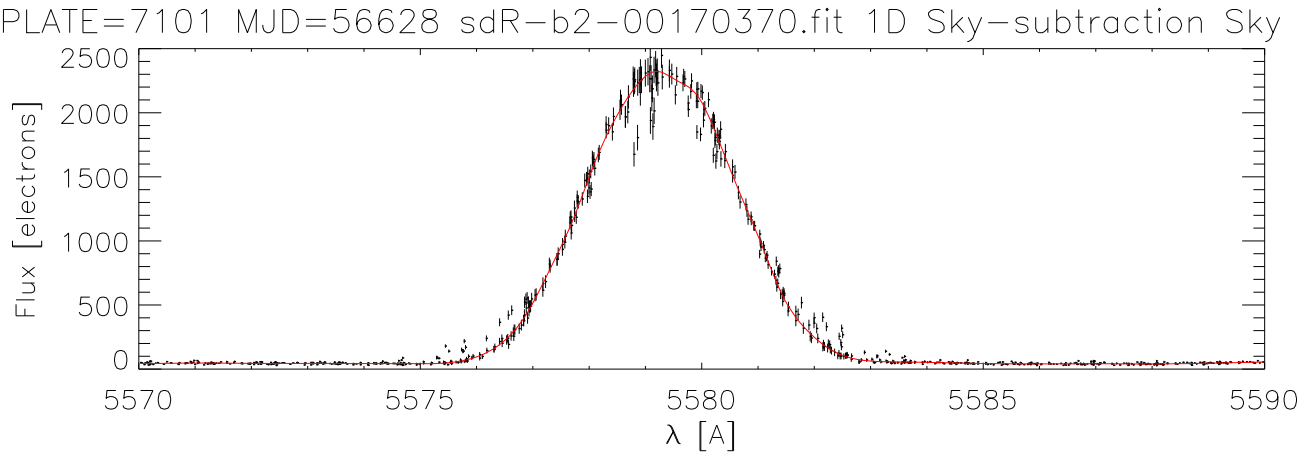

PLATE=7101 MJD=56628 Fiber−Flats for sdR−b2−00170366.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −1.568
Max value = 2.157
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Tue Apr 15 20:18:32 2014

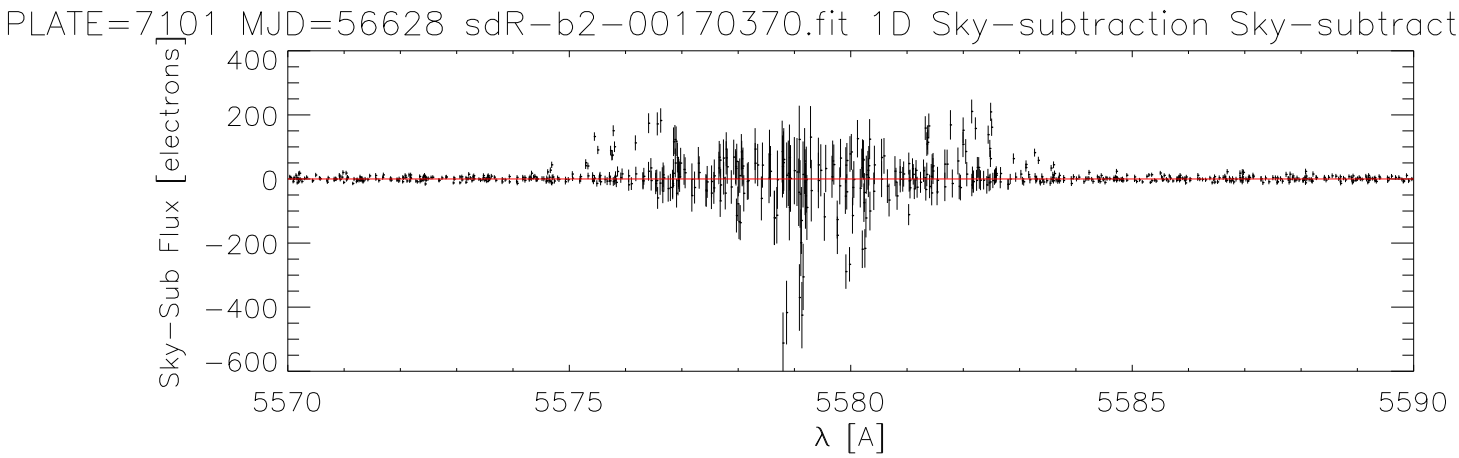

PLATE=7101 MJD=56628 Extraction chi^2 for sdR−b2−00170370.fit
BLACK = Final chisq extraction
χ^2
1.5
1.0
0.5
0.0
0
1000
2000
3000
4000
Row number


PLATE=7101 MJD=56628 Sky Line Deviations for sdR-b2-00170370.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

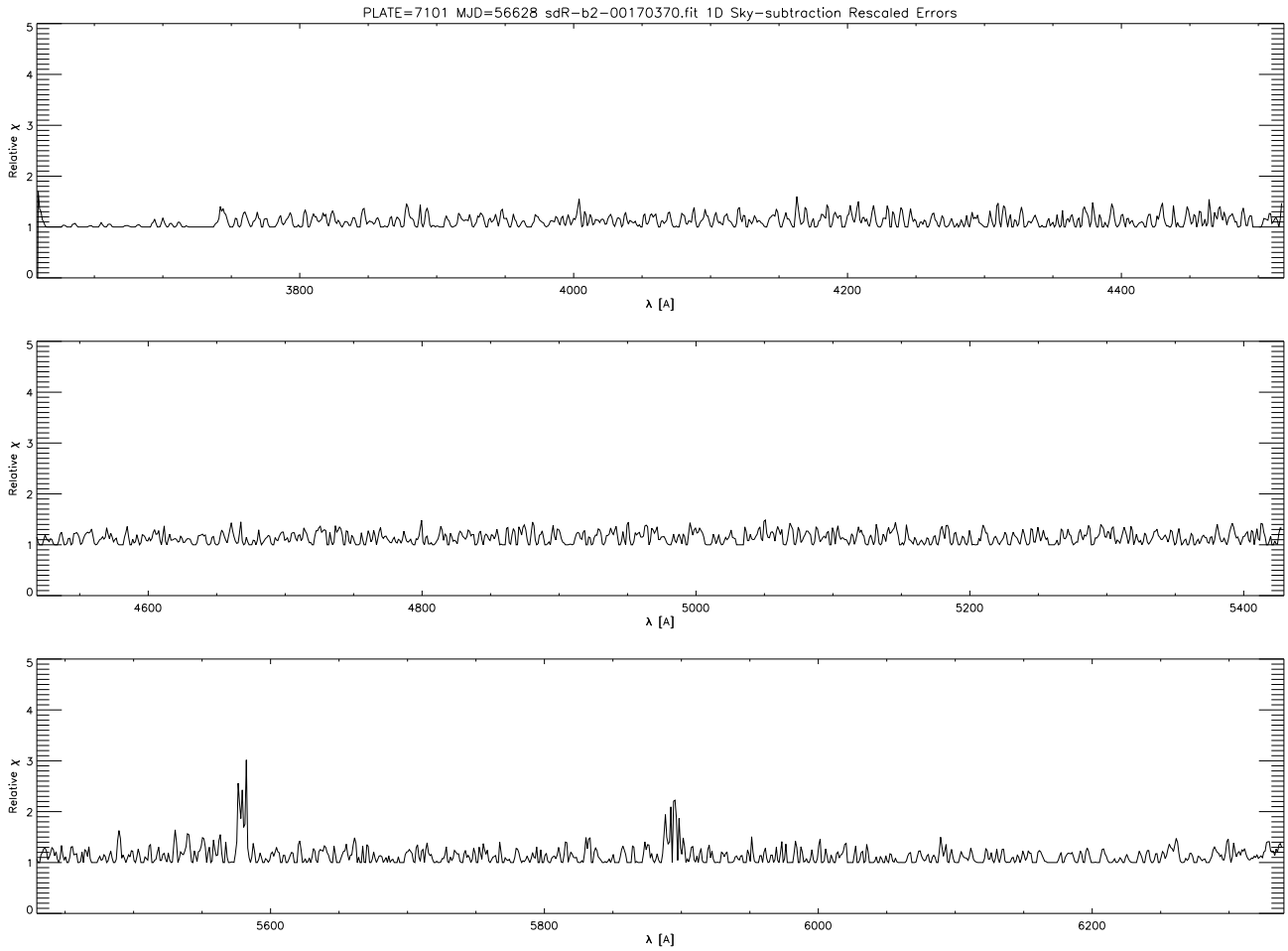

PLATE=7101 MJD=56628 Smooth superflat for sdR-b2-00170370.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

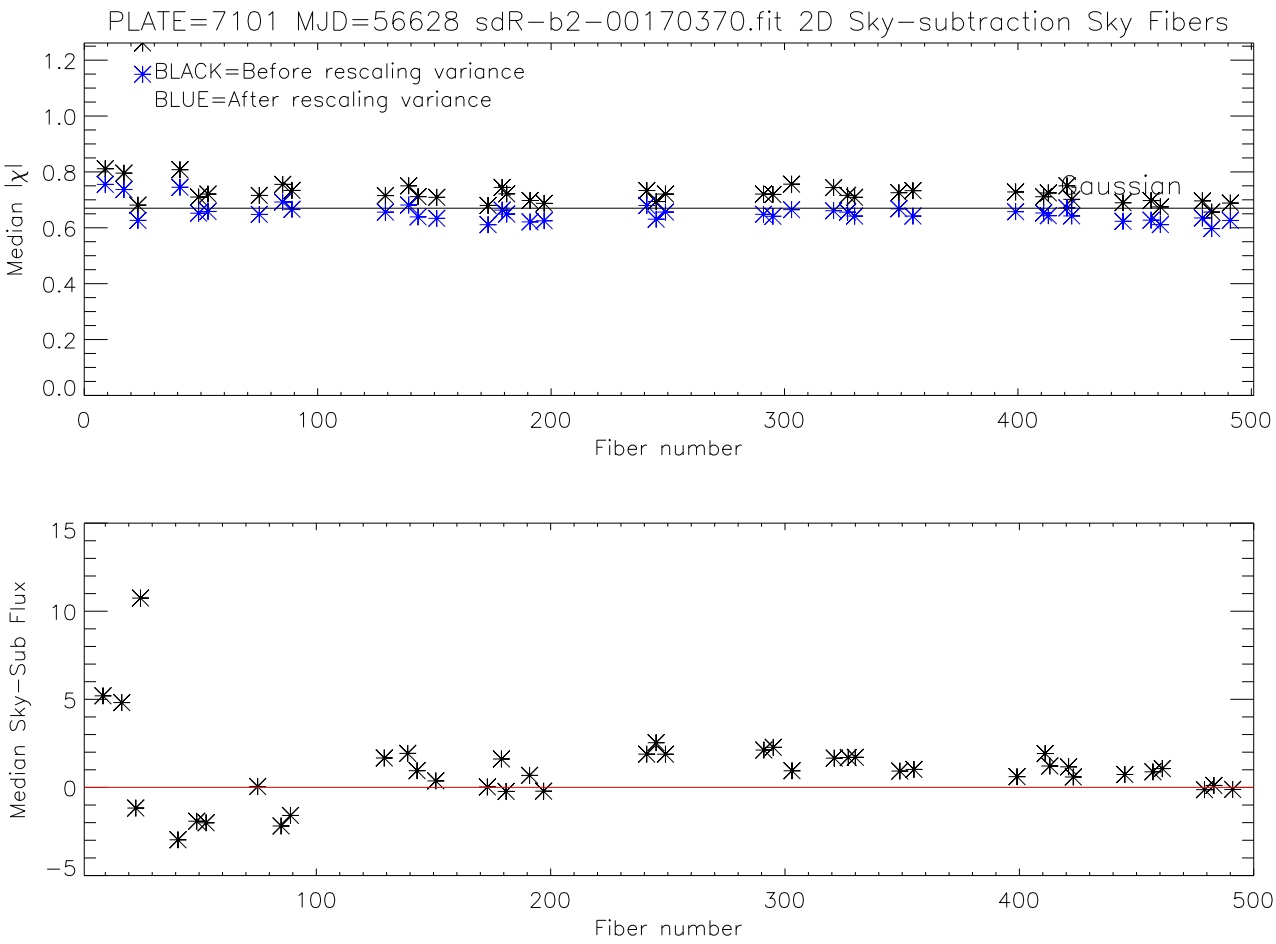

PLATE=7101 MJD=56628 sdR-b2-00170370.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Median |χ|
Gaussian
Fiber number
Median Sky-Sub Flux
Fiber number

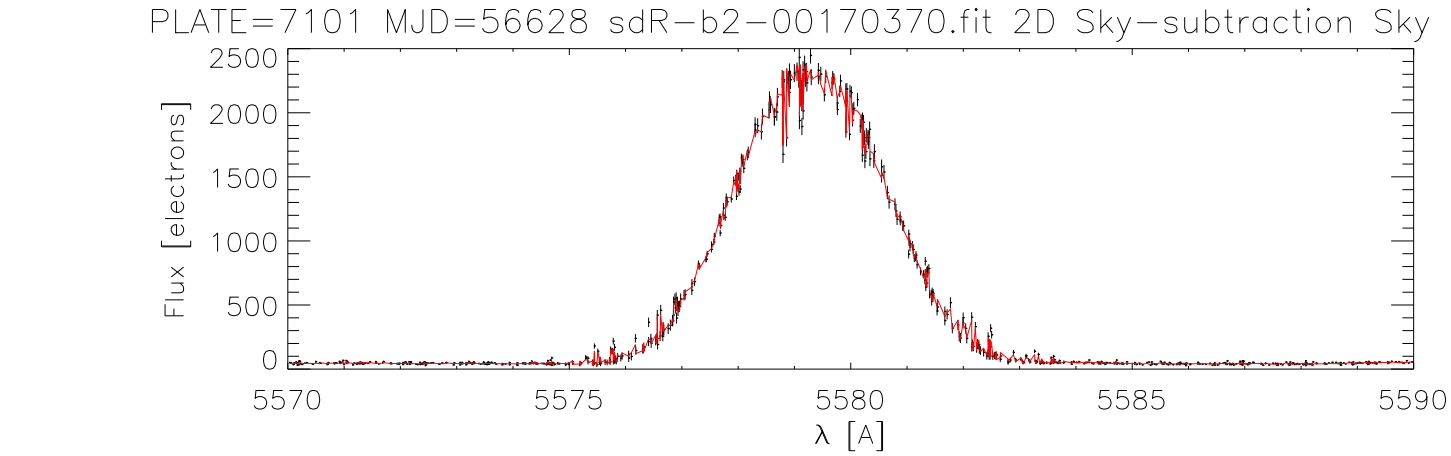

PLATE=7101 MJD=56628 sdR-b2-00170370.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

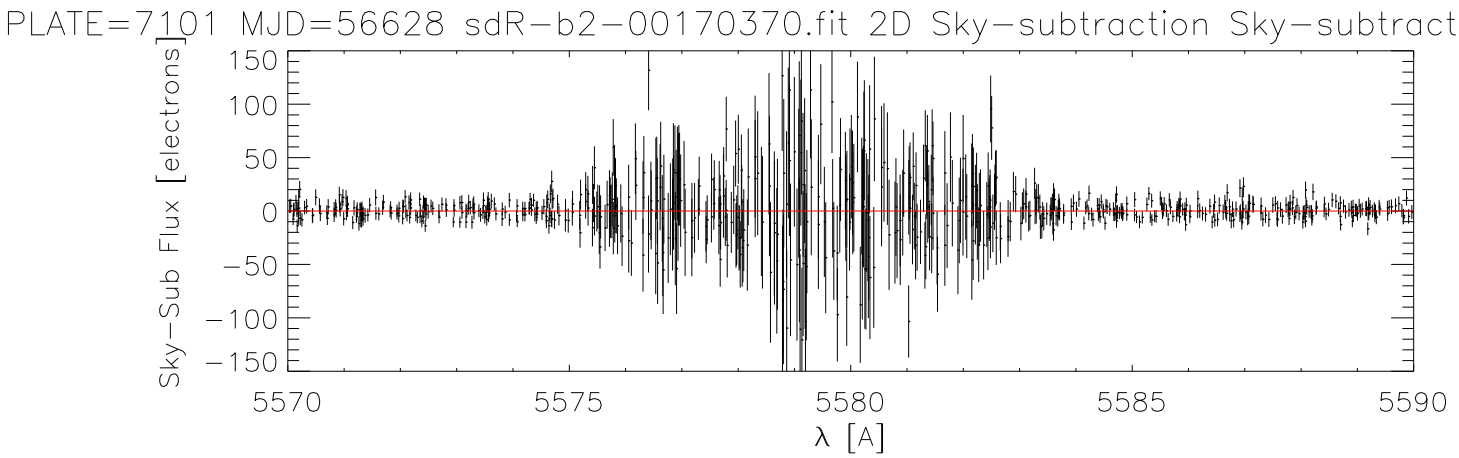

PLATE=7101 MJD=56628 sdR-b2-00170370.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 41

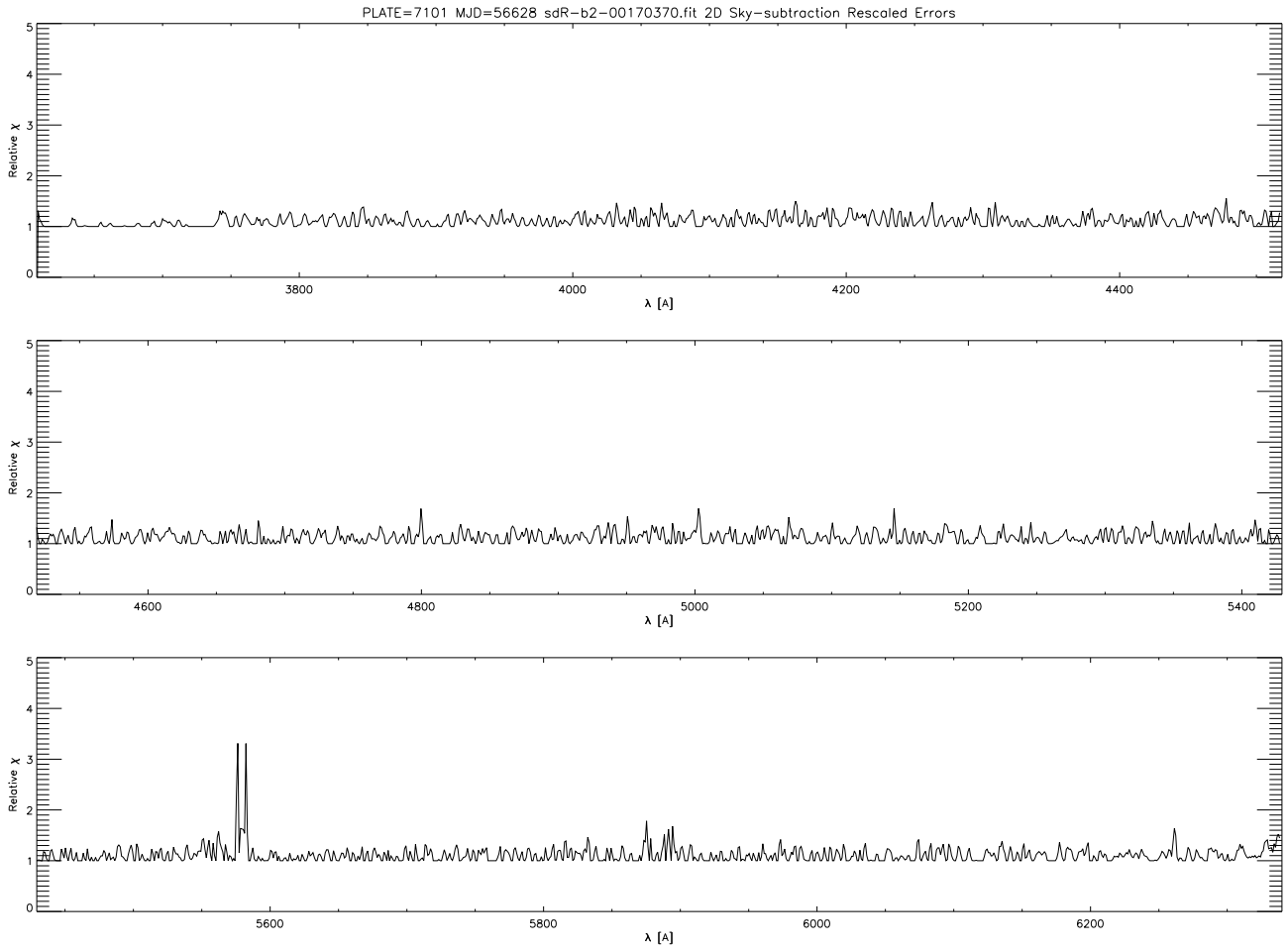


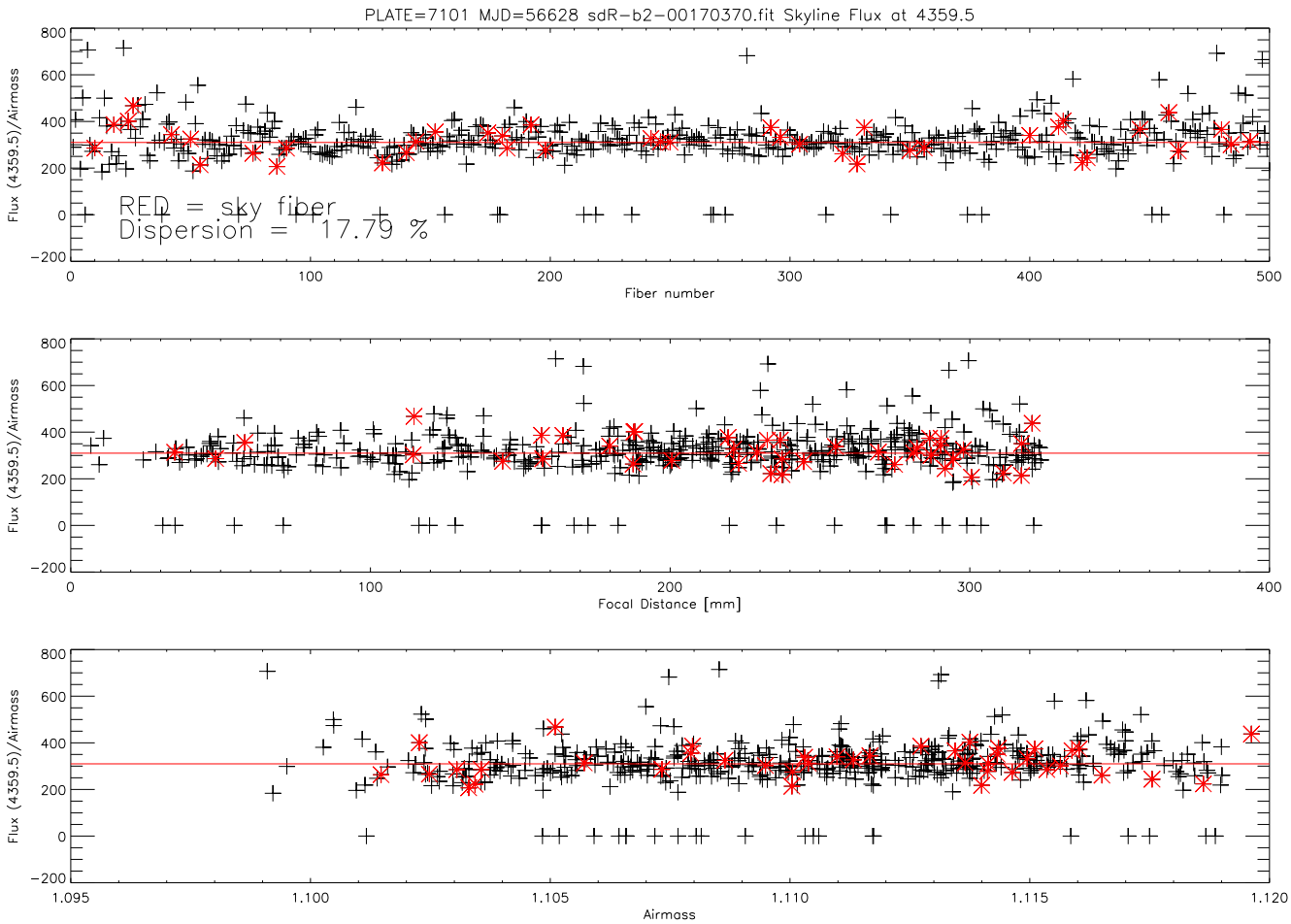

PLATE=7101 MJD=56628 sdR-b2-00170370.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

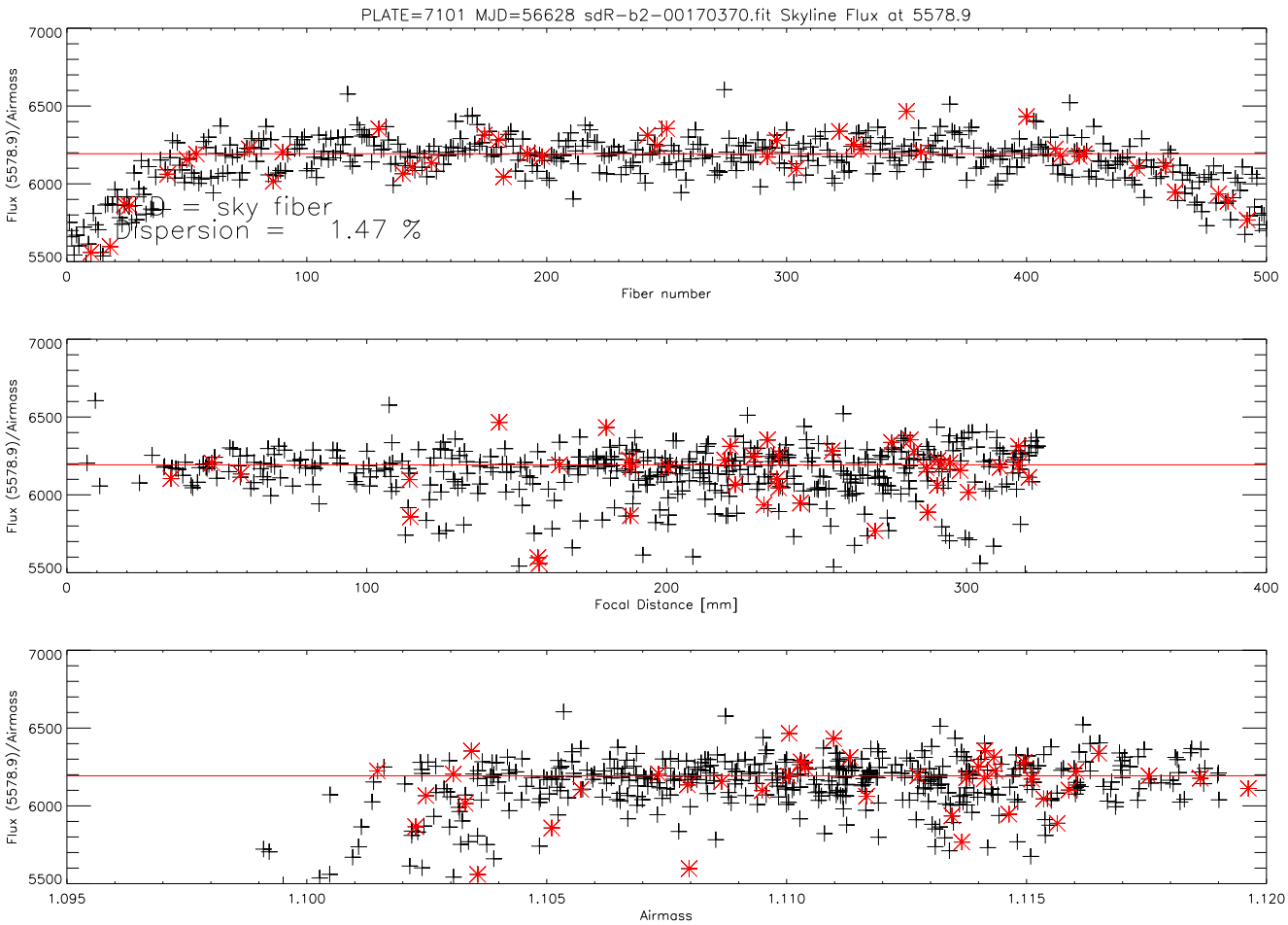

PLATE=7101 MJD=56628 sdR-b2-00170370.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]


PLATE=7101 MJD=56628 sdR-b2-00170370.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]

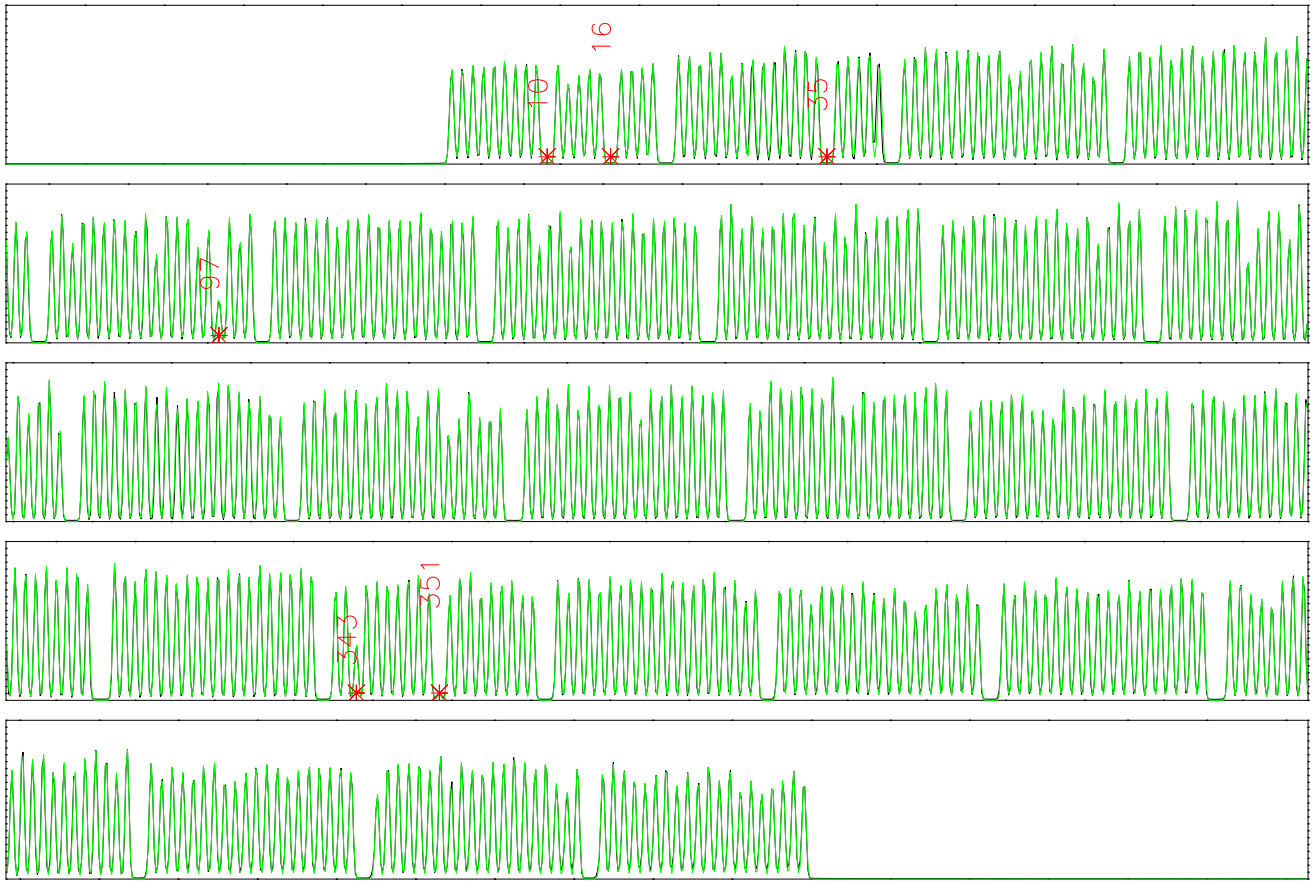
Number of sky fibers = 41

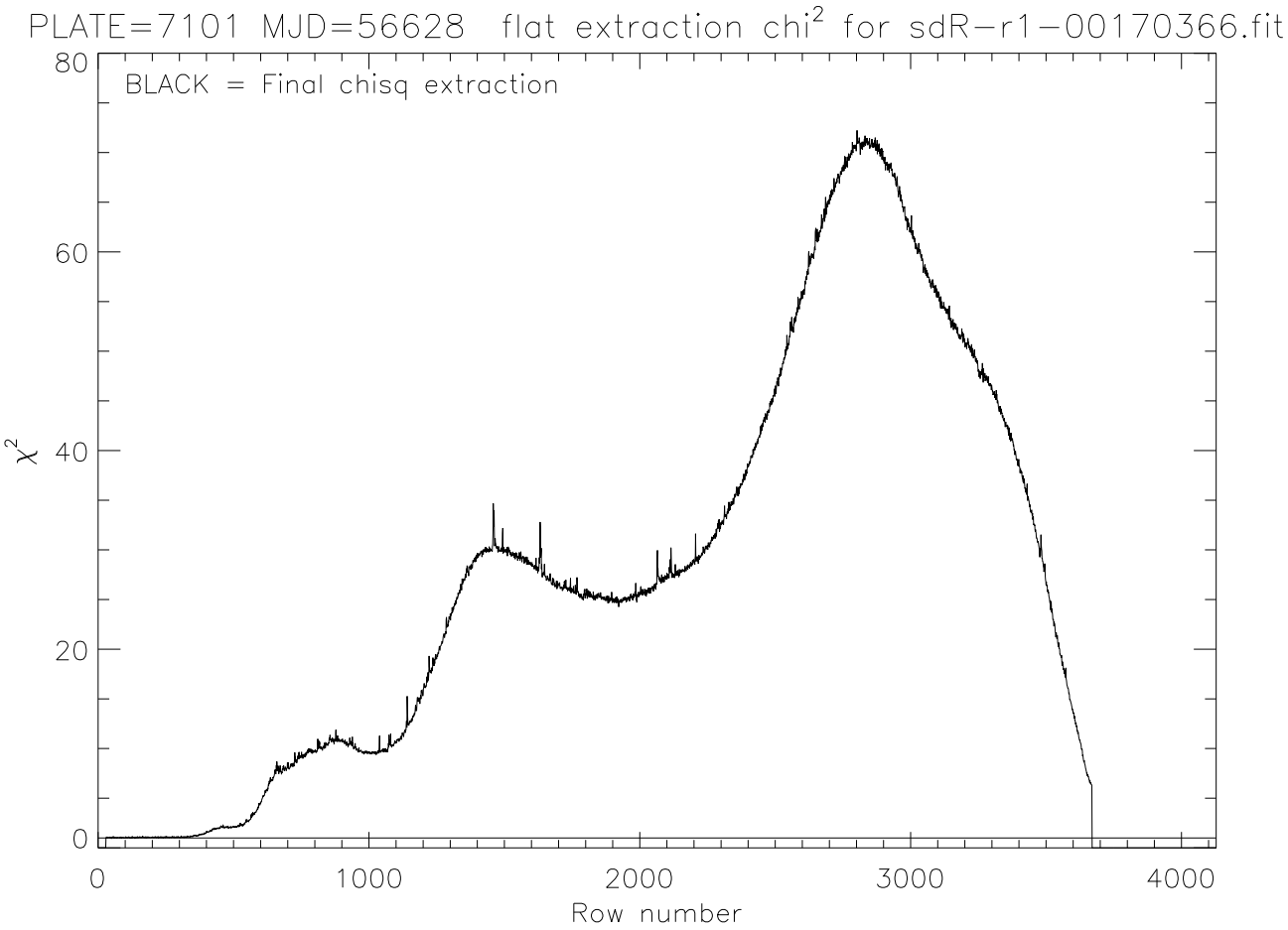


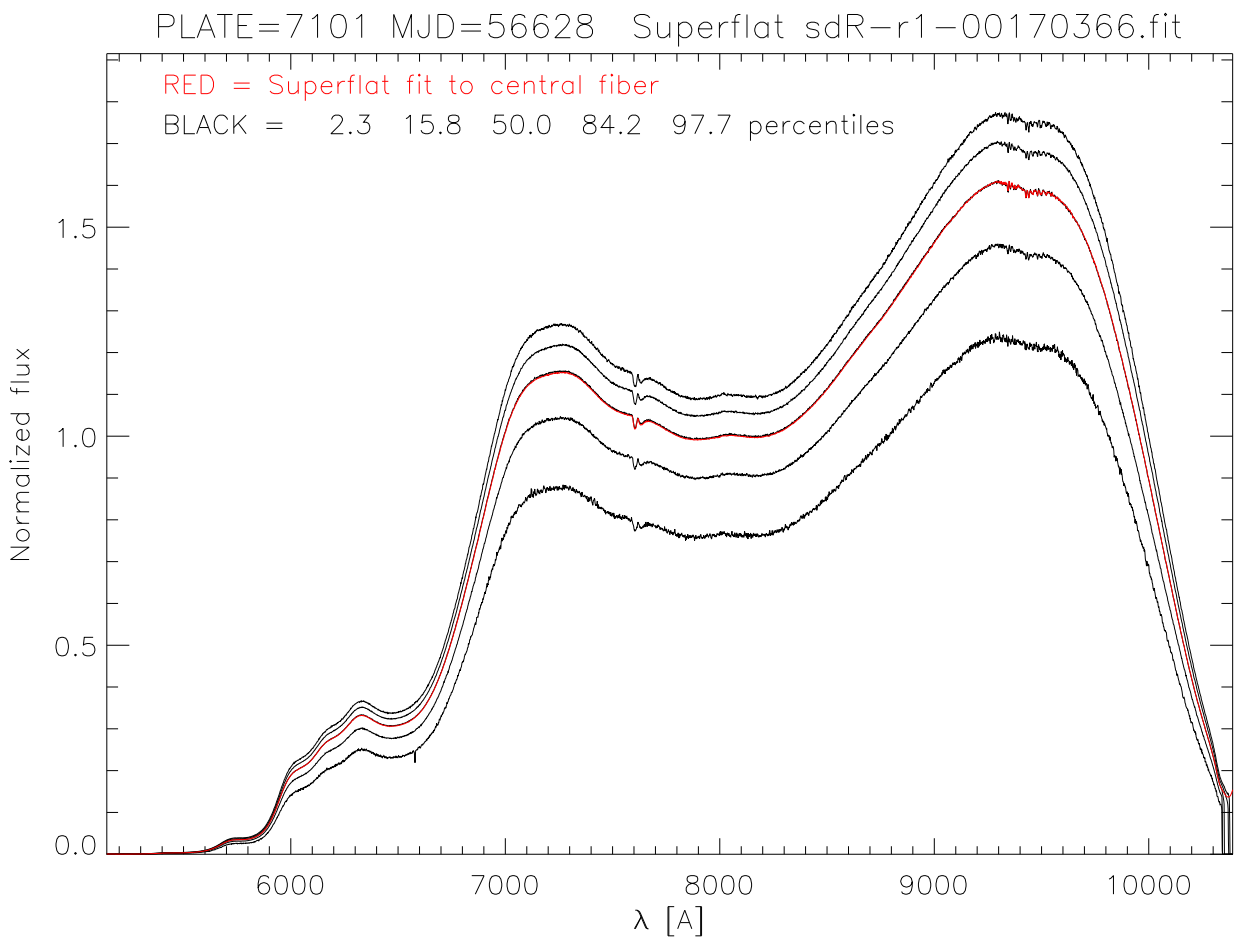

PLATE=7101 MJD=56628 sdR-b2-00170370.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 17.79 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

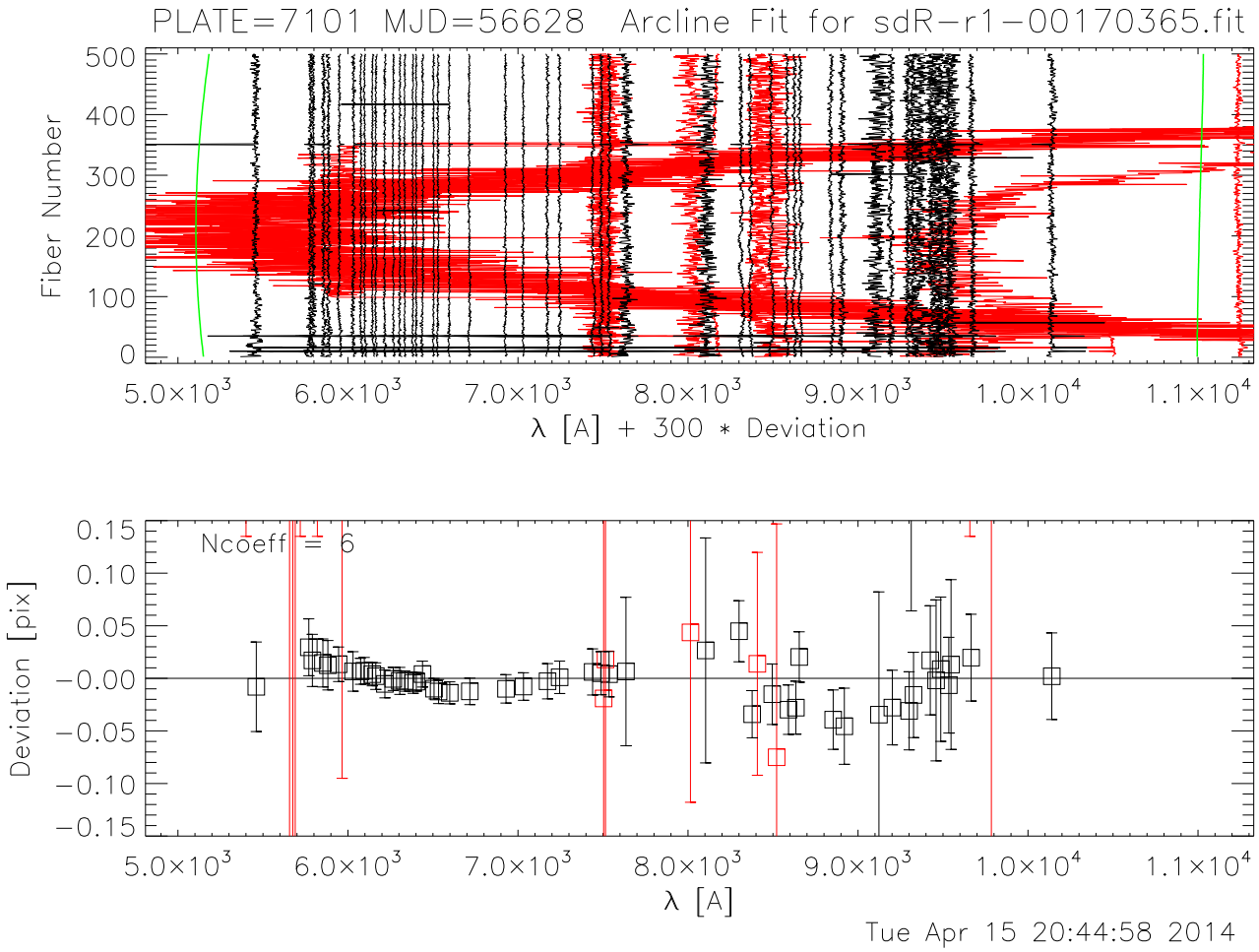

PLATE=7101 MJD=56628 sdR-b2-00170370.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
Focal Distance [mm]
Airmass
SKY = sky fiber
Dispersion = 1.47 %

PLATE=7101 MJD=56628 Traces sdR-r1-00170366.fit

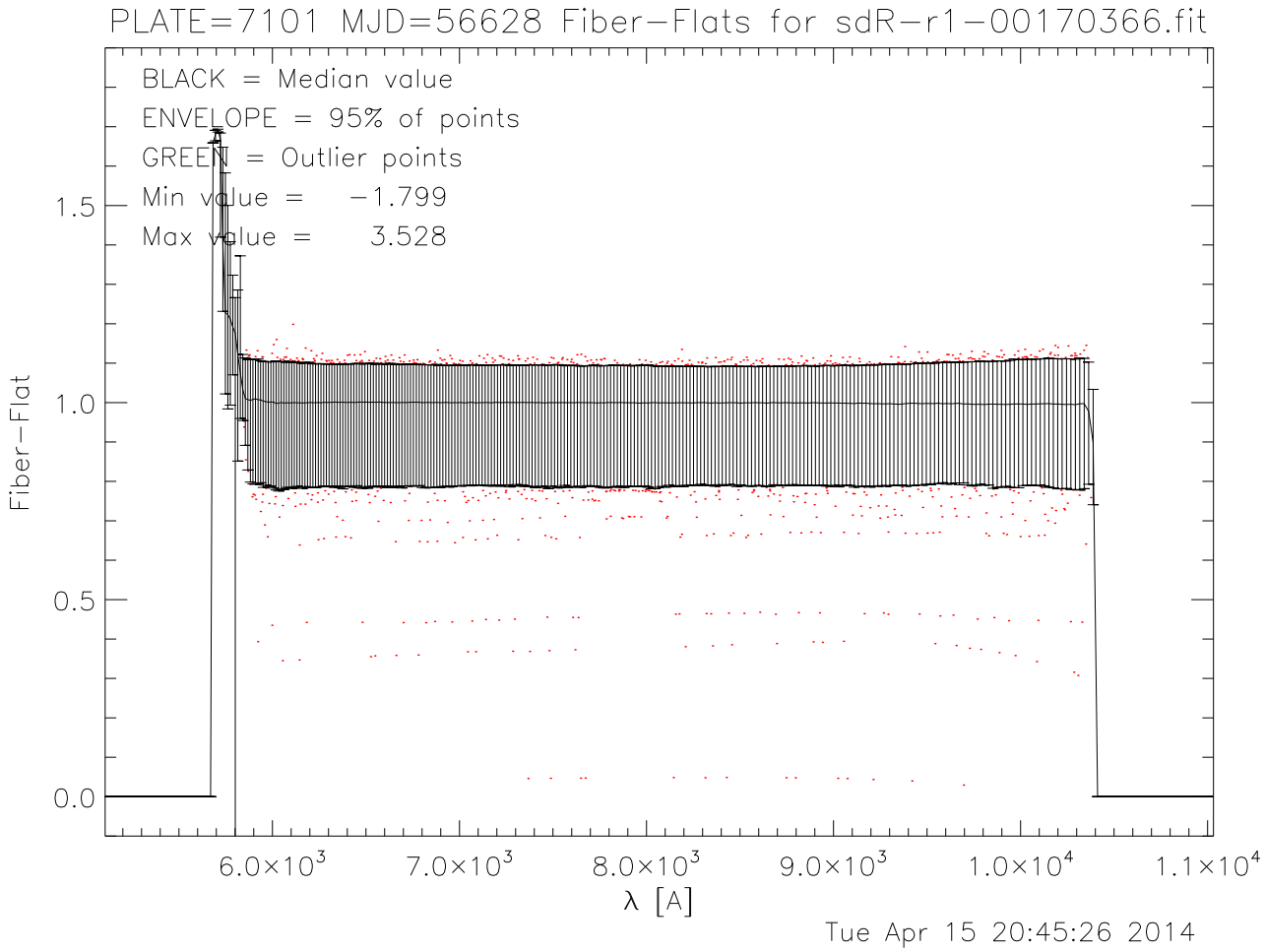


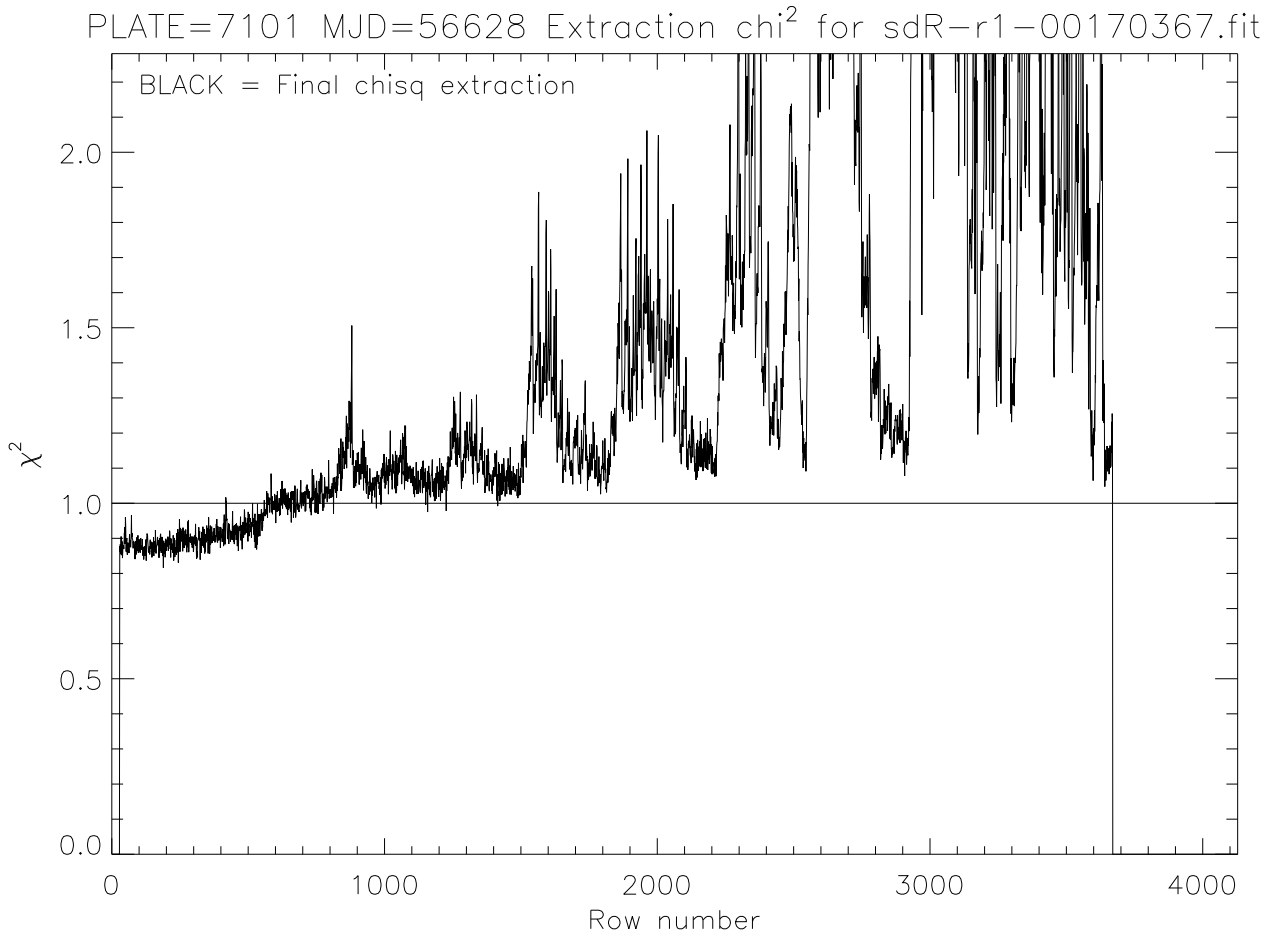

PLATE=7101 MJD=56628 flat extraction chi^2 for sdR−r1−00170366.fit
BLACK = Final chisq extraction
χ^2
0
20
40
60
80
0
1000
2000
3000
4000
Row number

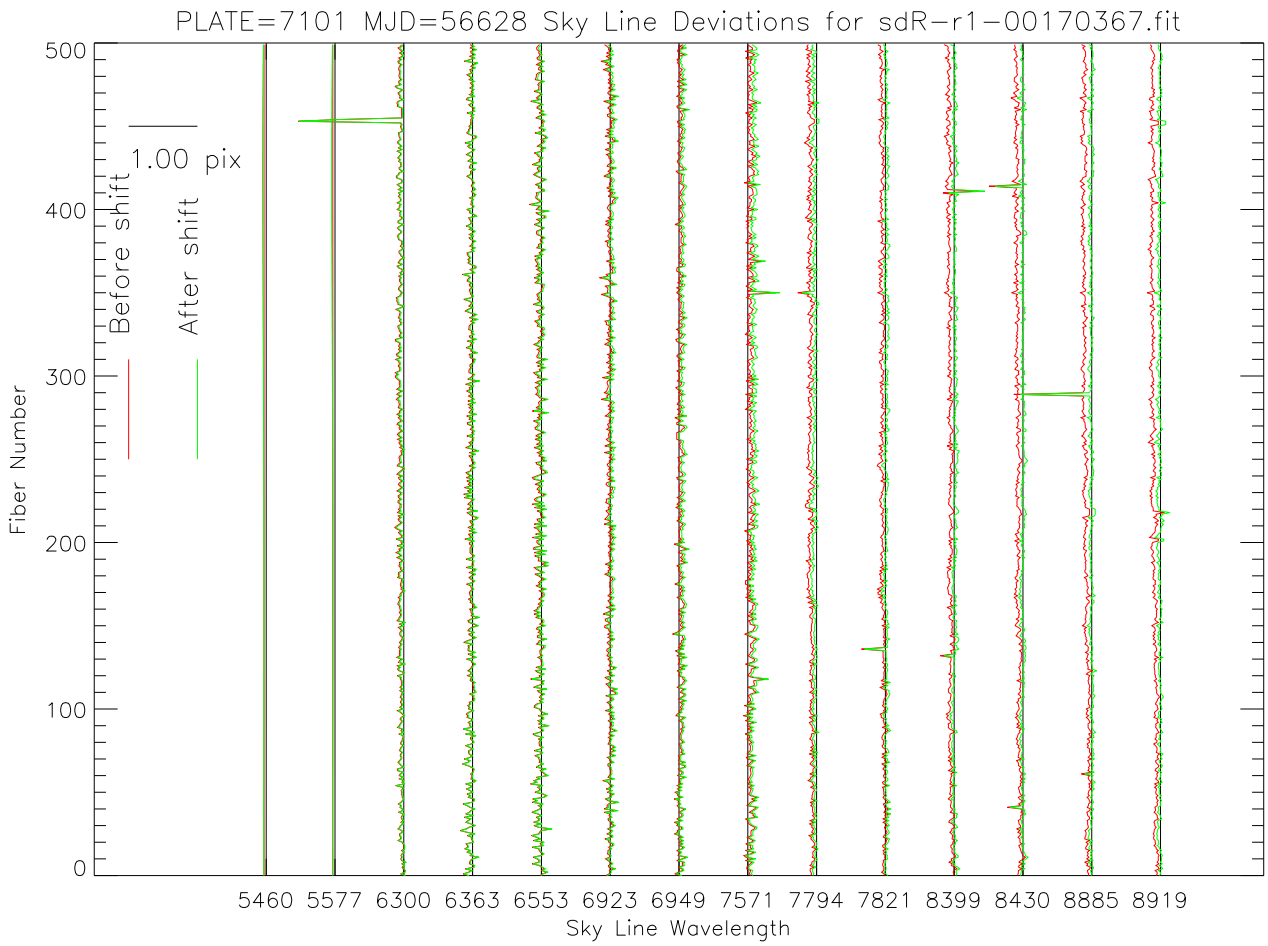

PLATE=7101 MJD=56628 Superflat sdR-r1-00170366.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
0.0
0.5
1.0
1.5
6000
7000
8000
9000
10000
λ [A]

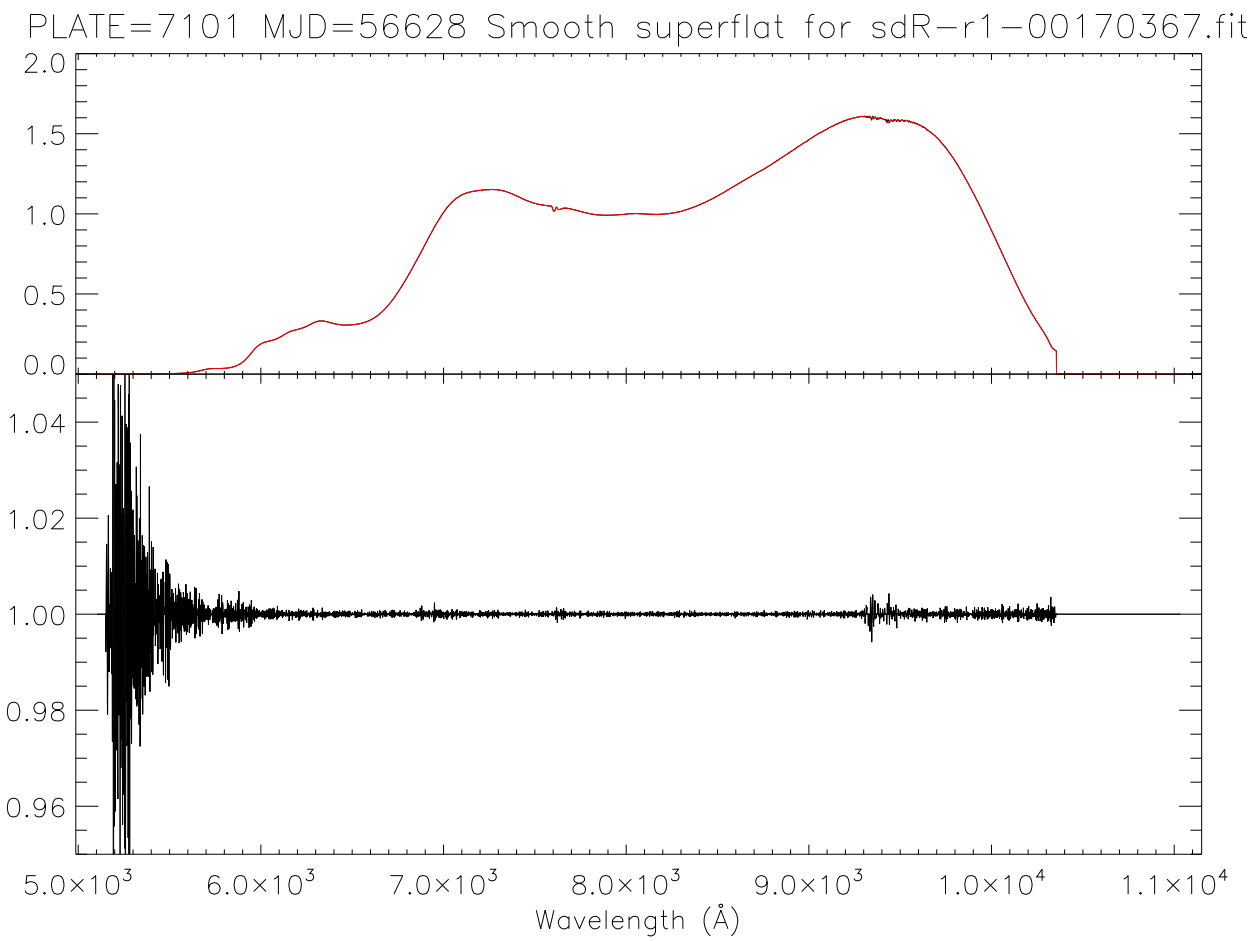

PLATE=7101 MJD=56628 Arcline Fit for sdR-r1-00170365.fit
Fiber Number
500
400
300
200
100
0
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A] + 300 * Deviation

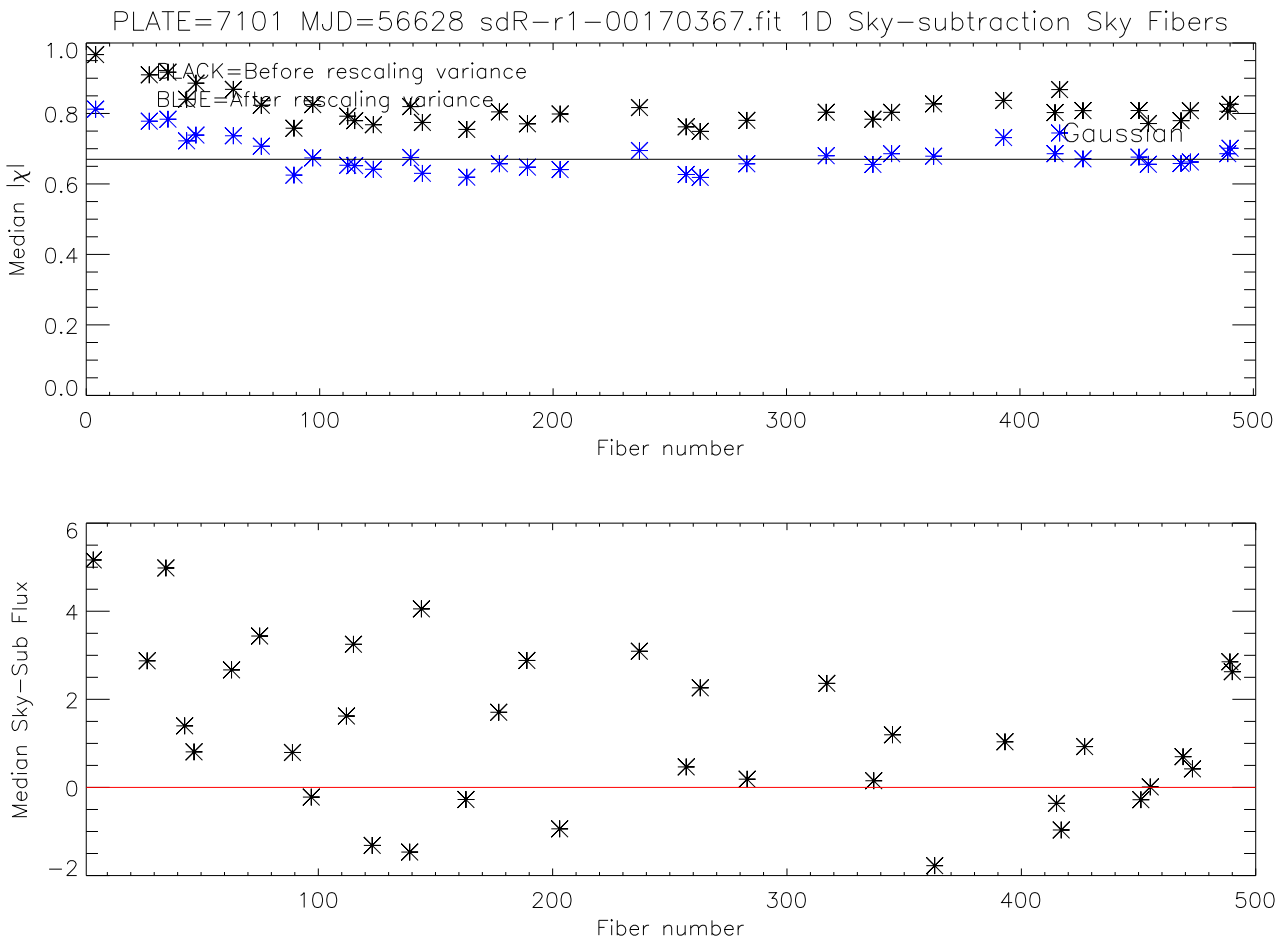
Ncoeff = 6
Deviation [pix]
0.15
0.10
0.05
−0.00
−0.05
−0.10
−0.15
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Tue Apr 15 20:44:58 2014

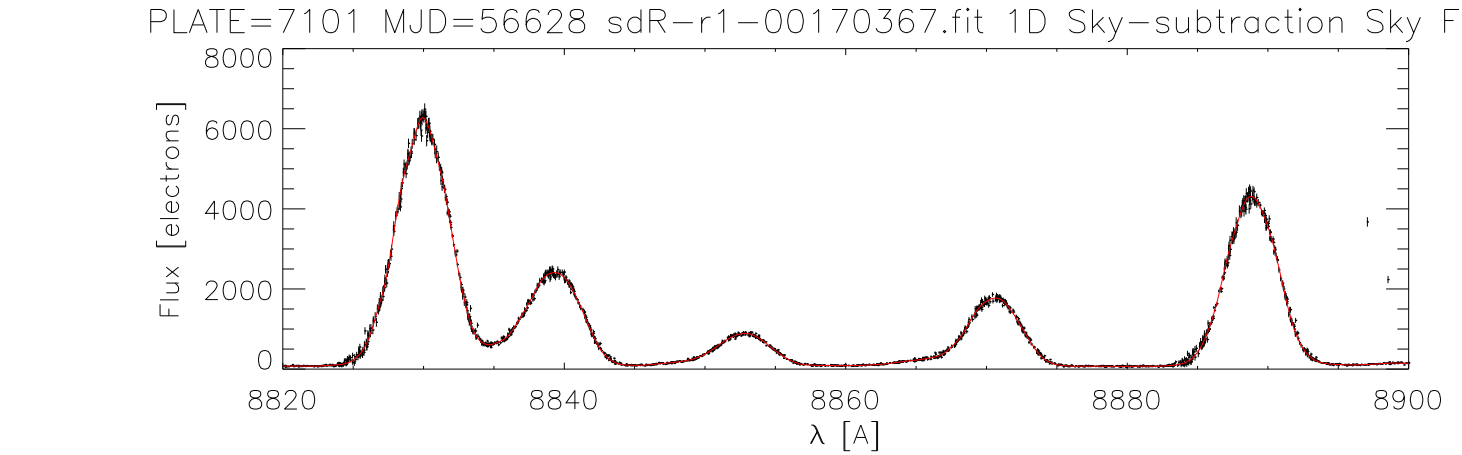

PLATE=7101 MJD=56628 Fiber−Flats for sdR−r1−00170366.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −1.799
Max value = 3.528
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Tue Apr 15 20:45:26 2014

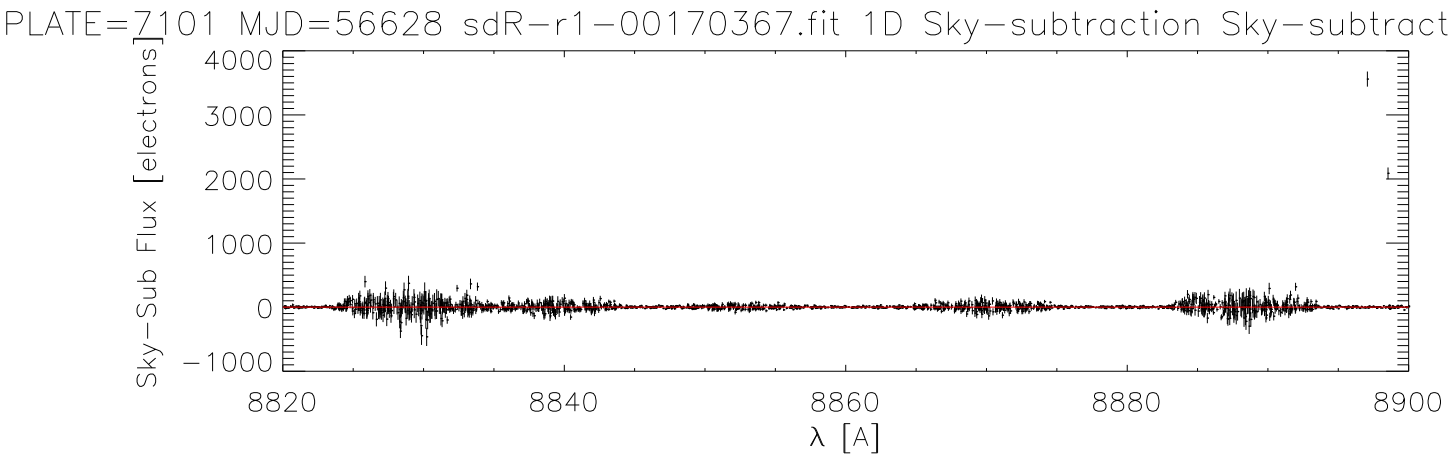

PLATE=7101 MJD=56628 Extraction chi^2 for sdR−r1−00170367.fit
BLACK = Final chisq extraction
χ^2
0.0
0.5
1.0
1.5
2.0
0
1000
2000
3000
4000
Row number


PLATE=7101 MJD=56628 Sky Line Deviations for sdR-r1-00170367.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

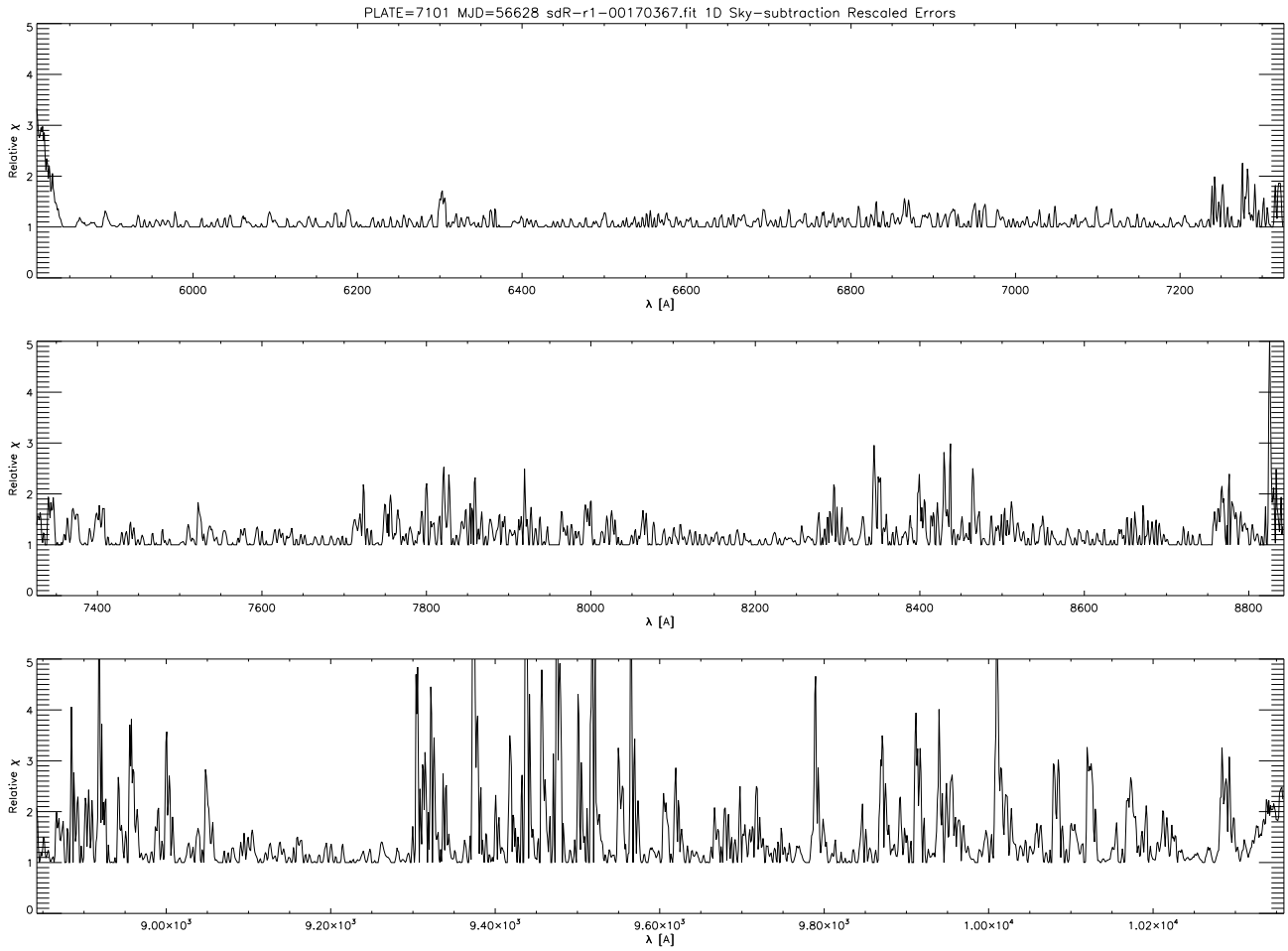

PLATE=7101 MJD=56628 Smooth superflat for sdR-r1-00170367.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

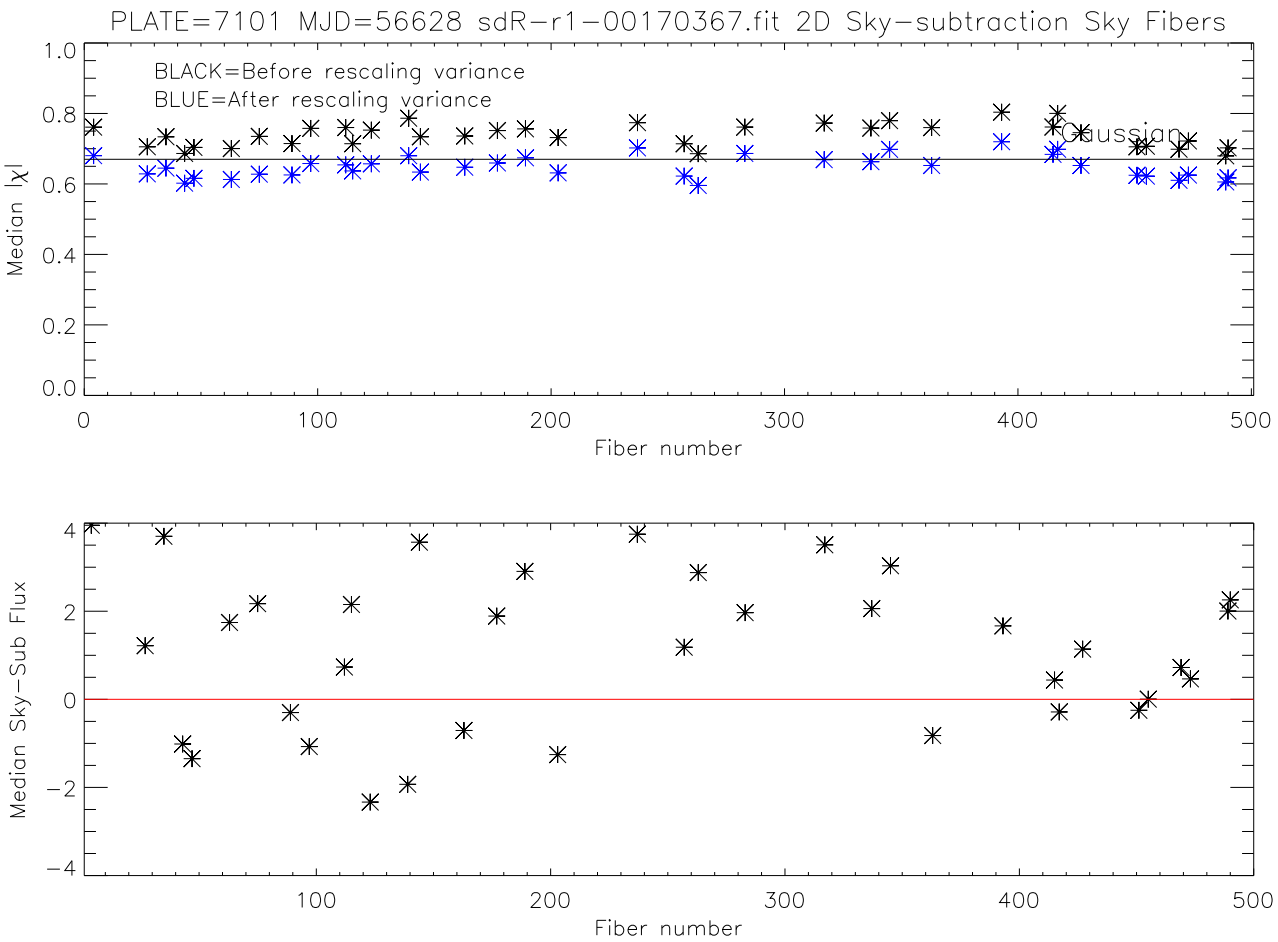

PLATE=7101 MJD=56628 sdR-r1-00170367.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

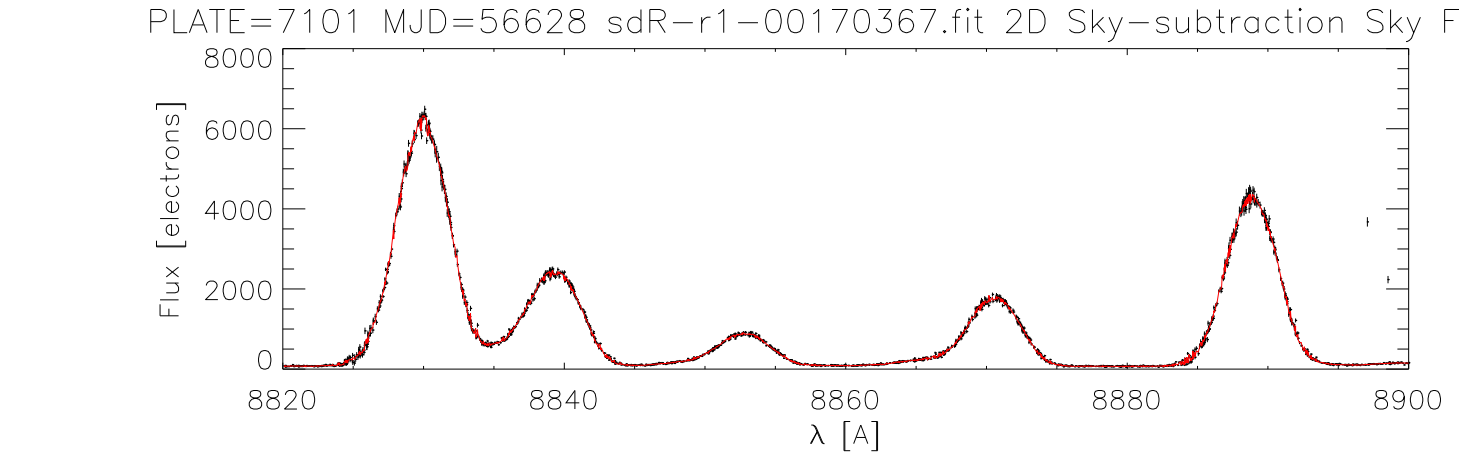

PLATE=7101 MJD=56628 sdR-r1-00170367.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

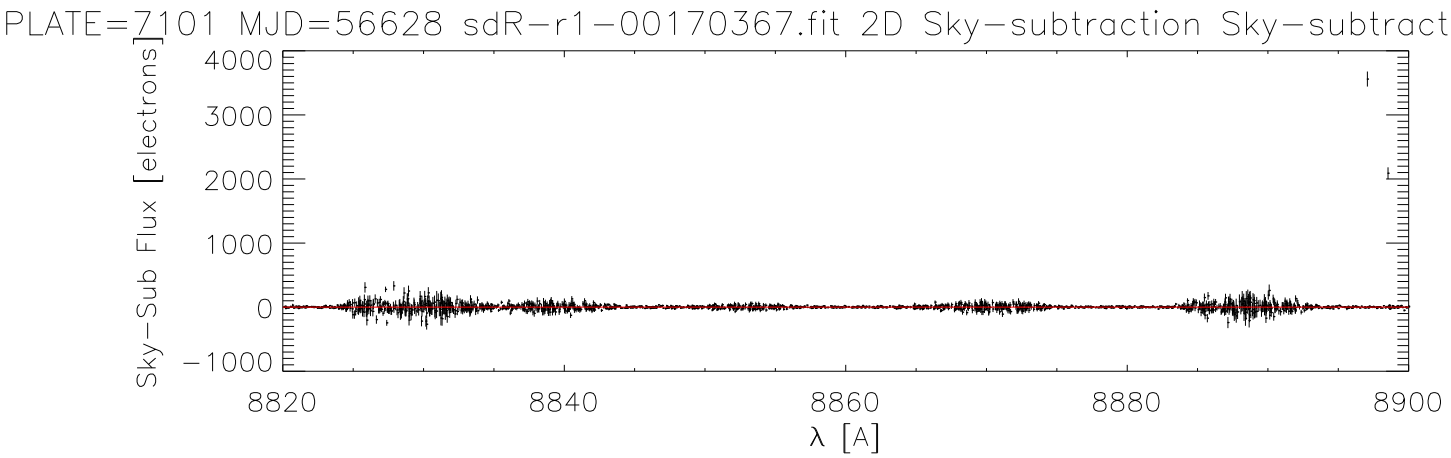

PLATE=7101 MJD=56628 sdR-r1-00170367.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 36

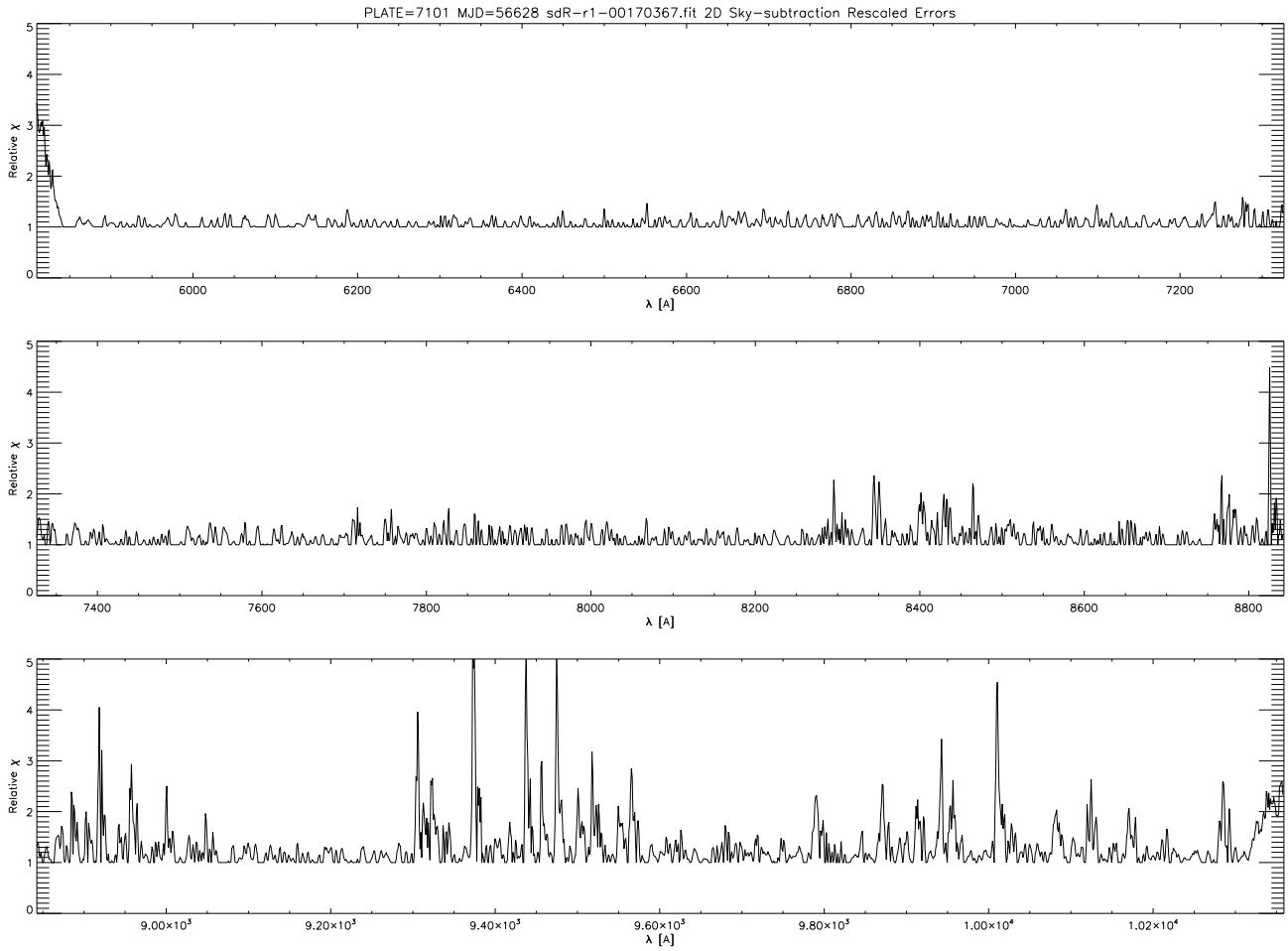


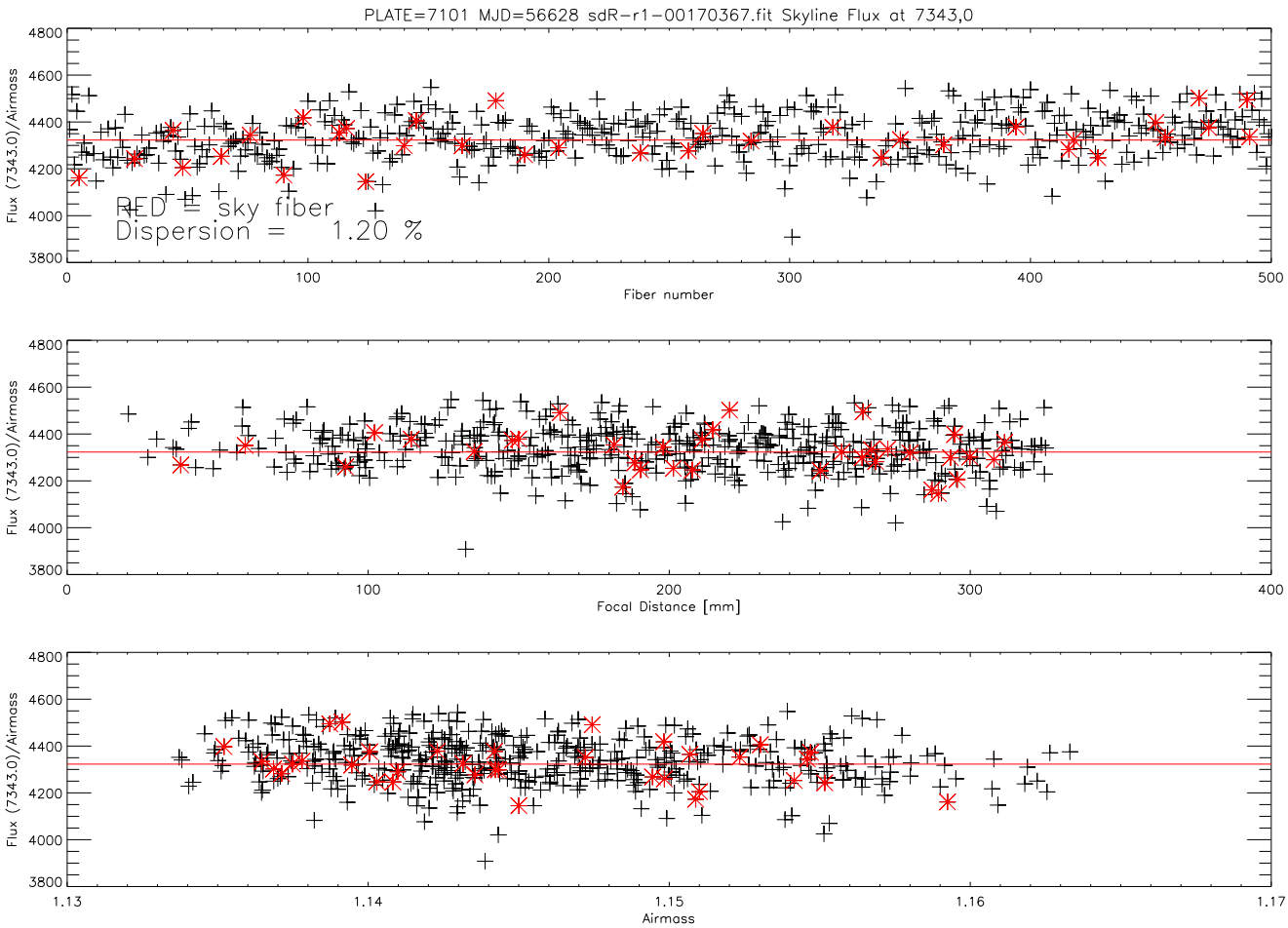

PLATE=7101 MJD=56628 sdR-r1-00170367.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

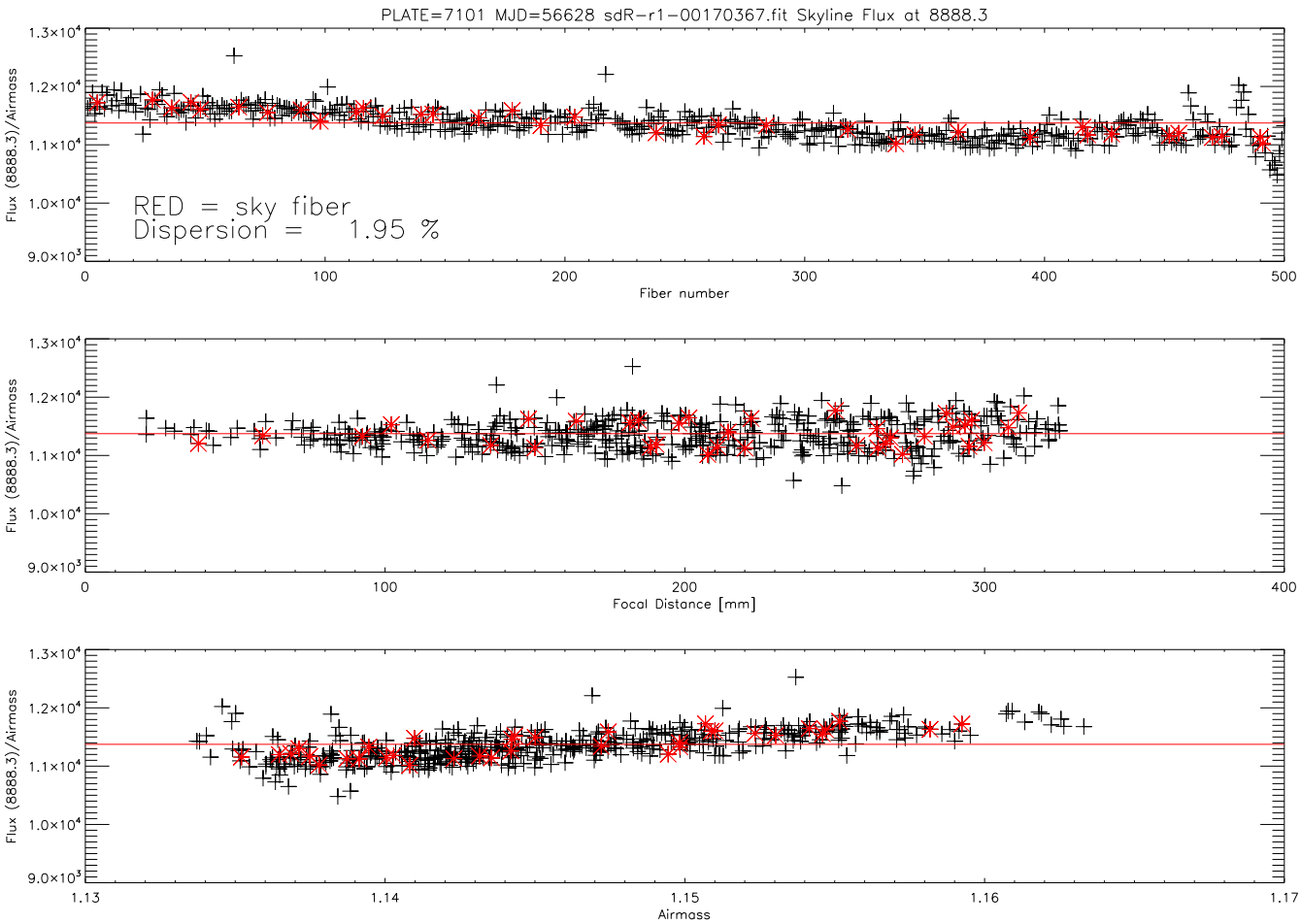

PLATE=7101 MJD=56628 sdR-r1-00170367.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

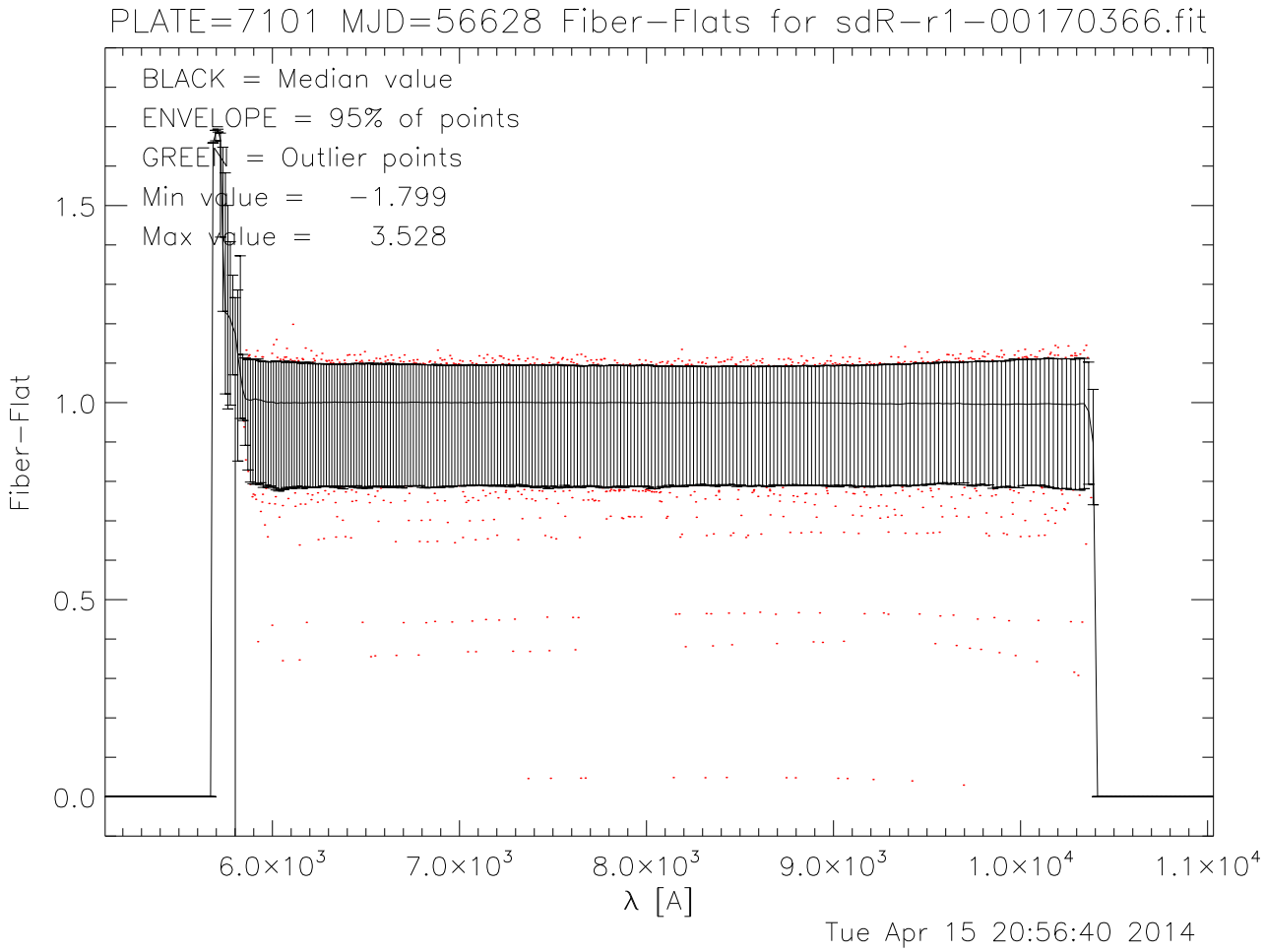

PLATE=7101 MJD=56628 sdR-r1-00170367.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

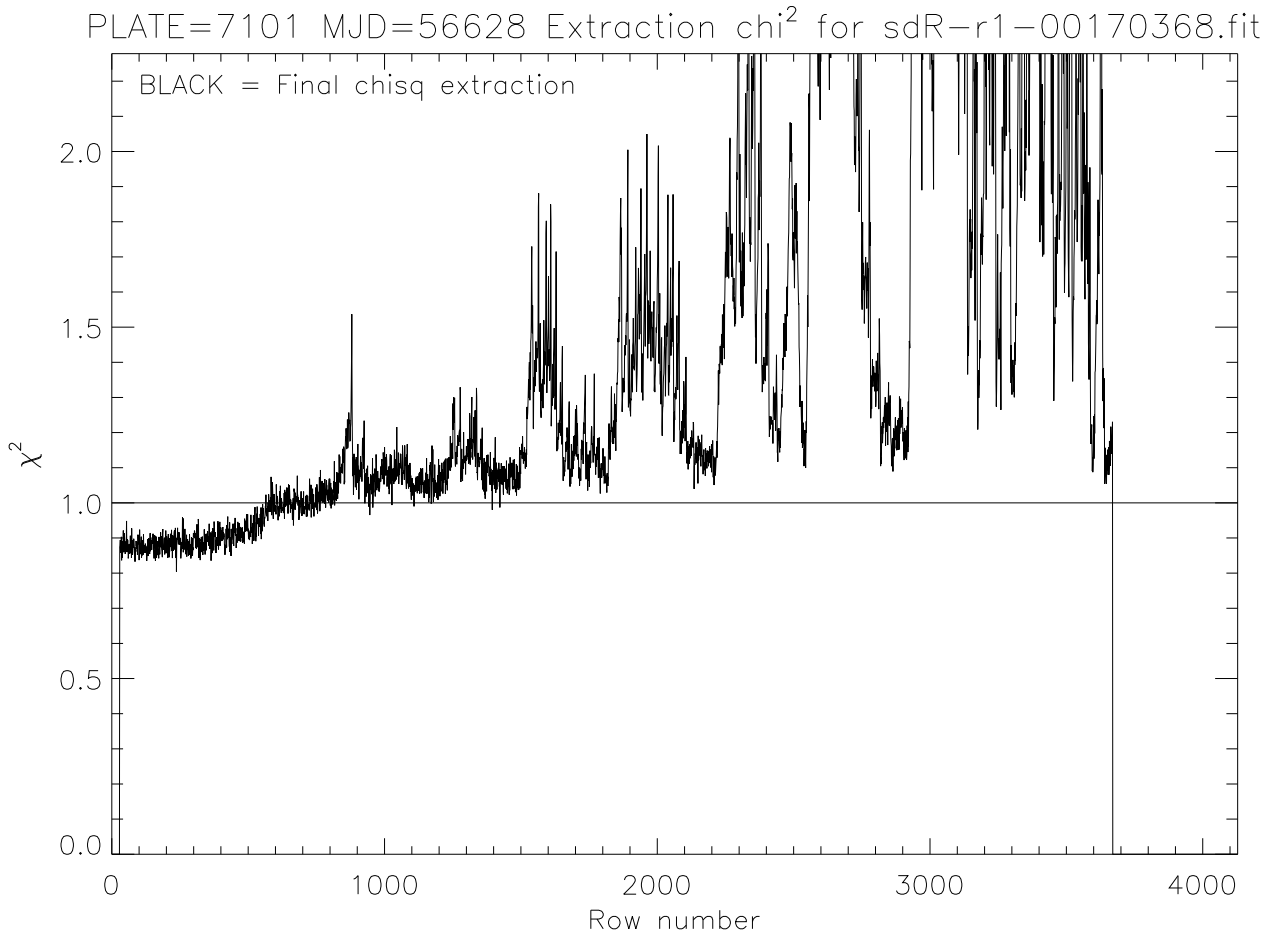
Number of sky fibers = 36

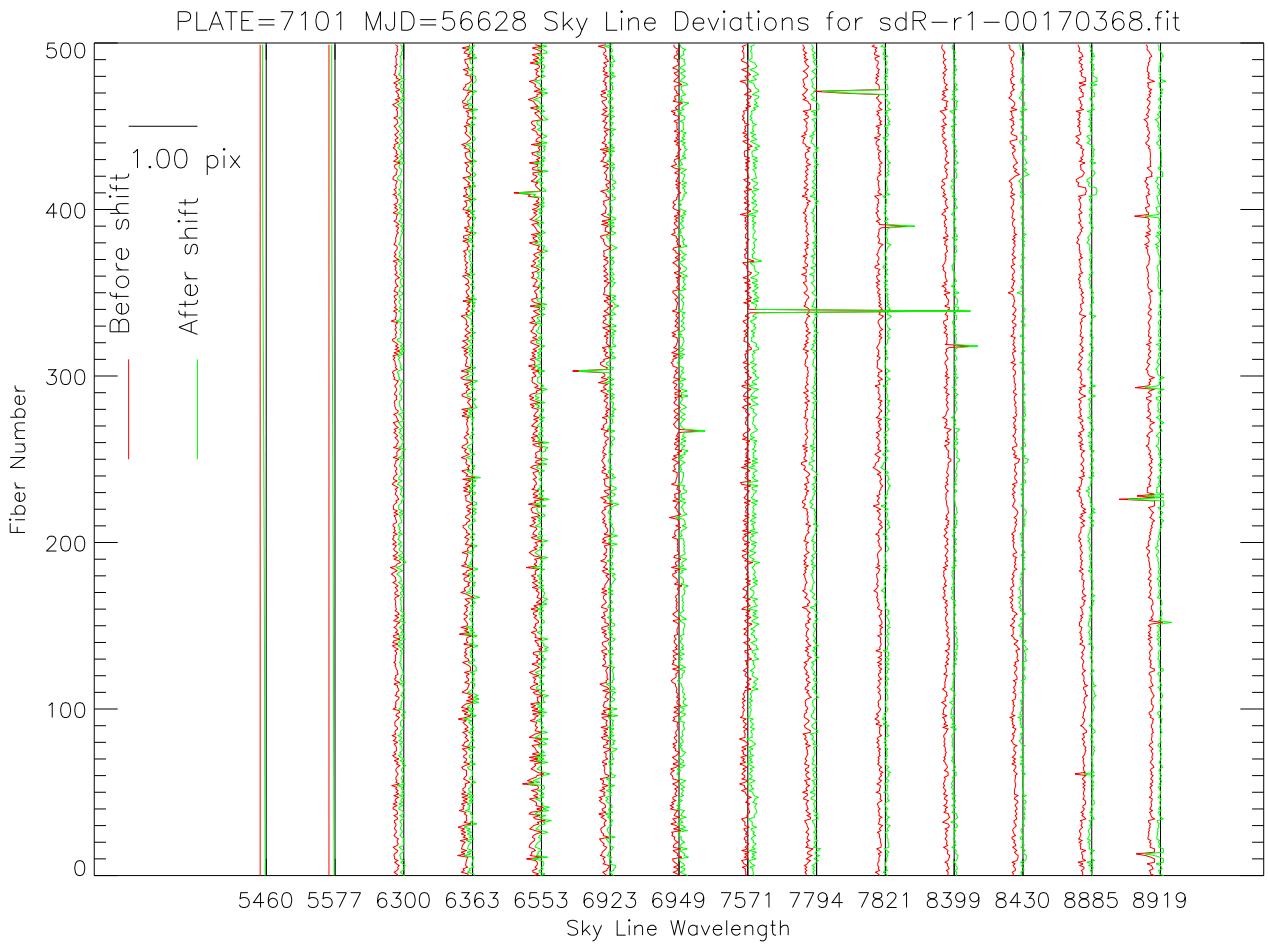


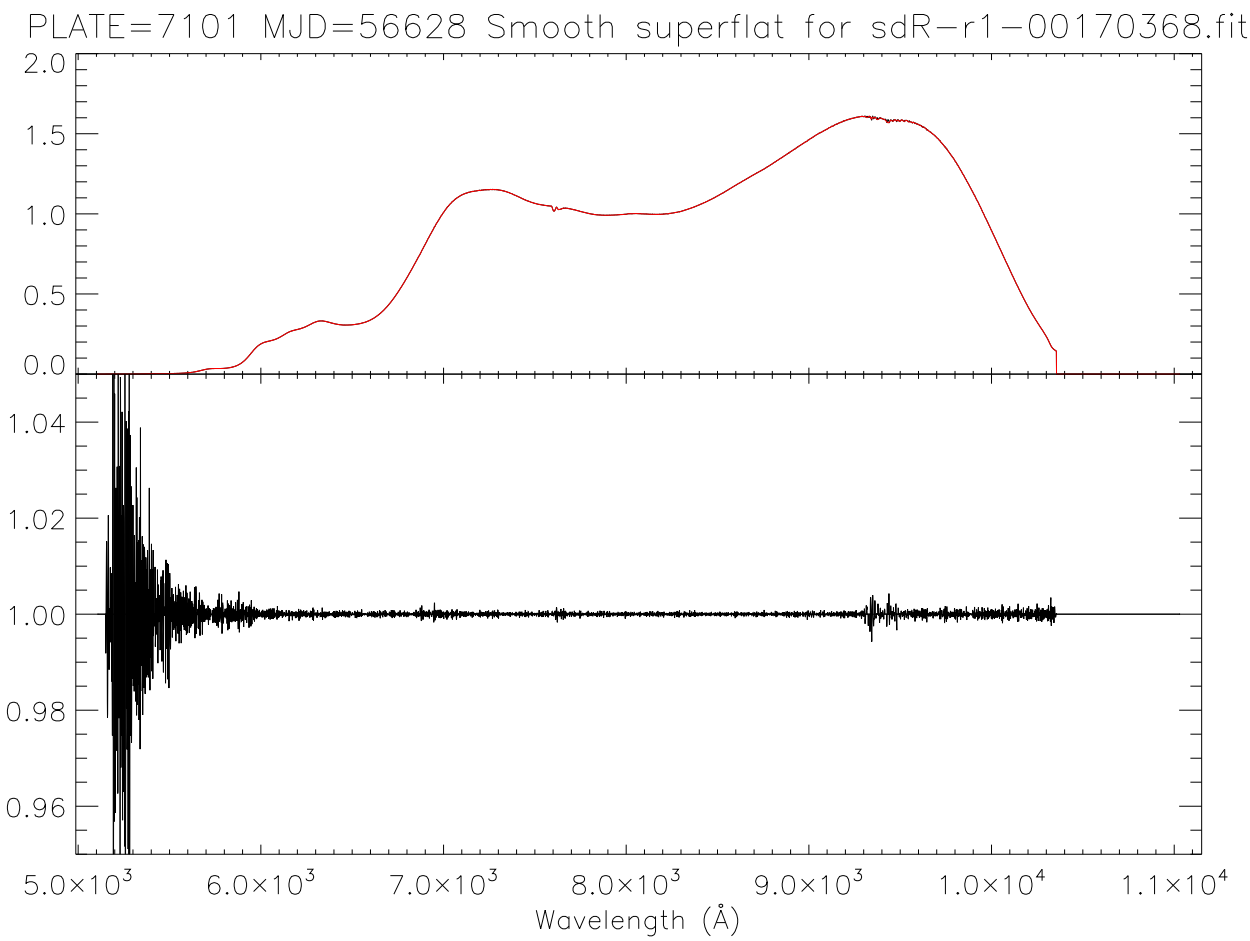

PLATE=7101 MJD=56628 sdR-r1-00170367.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.20 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

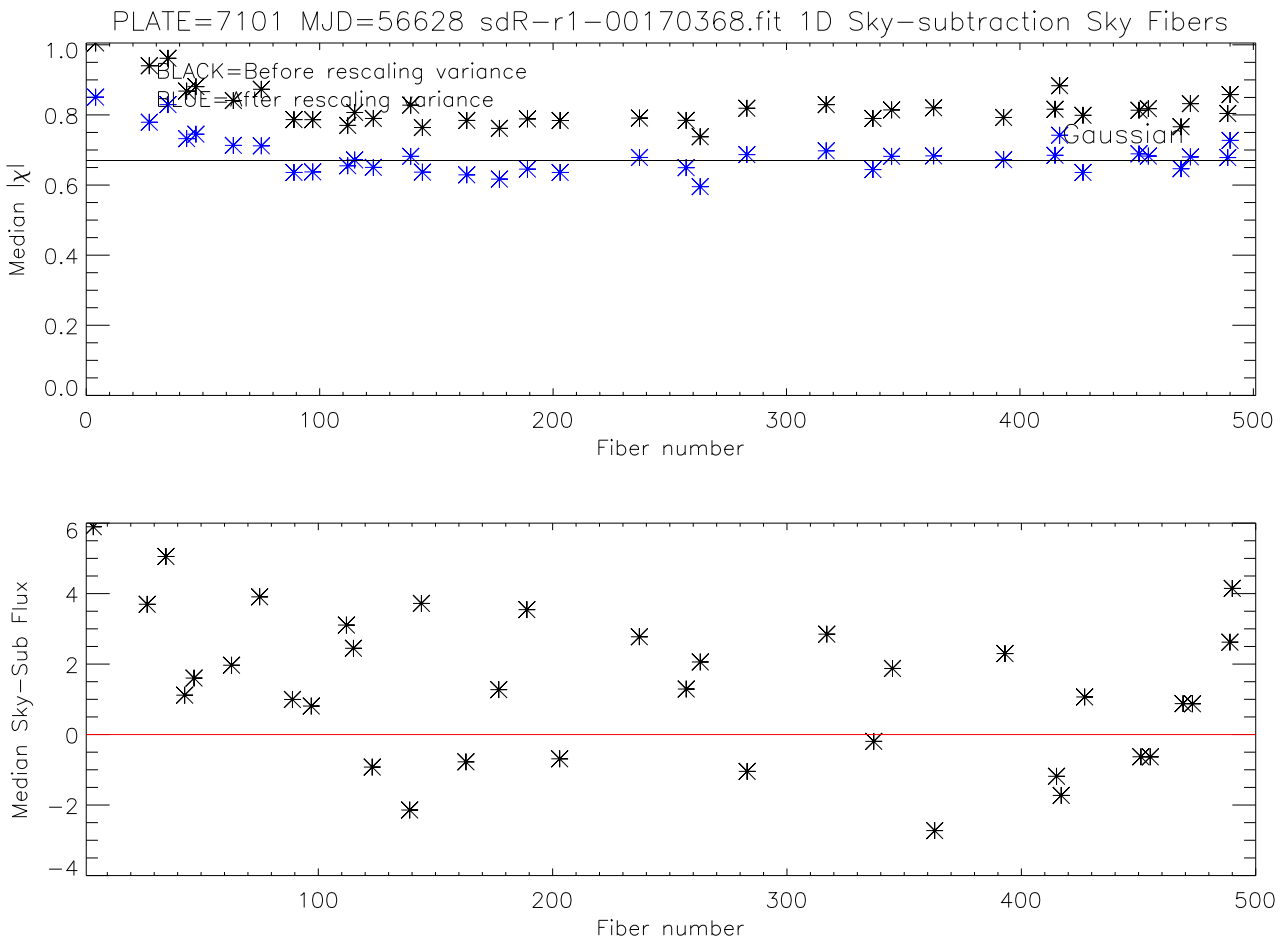

PLATE=7101 MJD=56628 sdR-r1-00170367.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.95 %
Fiber number
Focal Distance [mm]
Airmass

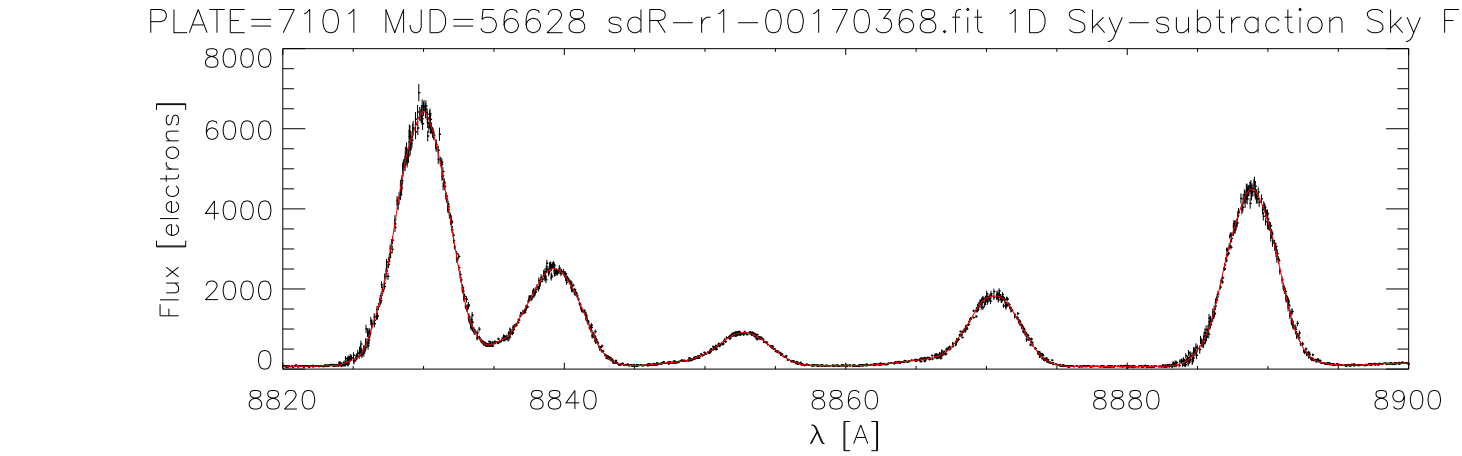

PLATE=7101 MJD=56628 Fiber−Flats for sdR−r1−00170366.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −1.799
Max value = 3.528
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Tue Apr 15 20:56:40 2014

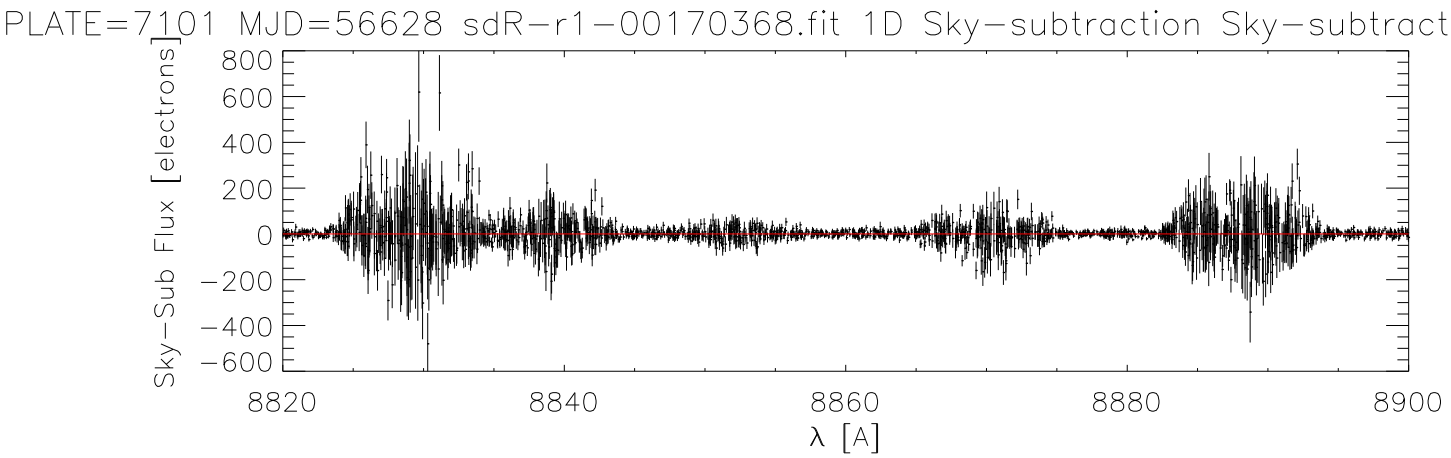

PLATE=7101 MJD=56628 Extraction chi^2 for sdR−r1−00170368.fit
BLACK = Final chisq extraction
χ^2
0.0
0.5
1.0
1.5
2.0
0
1000
2000
3000
4000
Row number


PLATE=7101 MJD=56628 Sky Line Deviations for sdR-r1-00170368.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

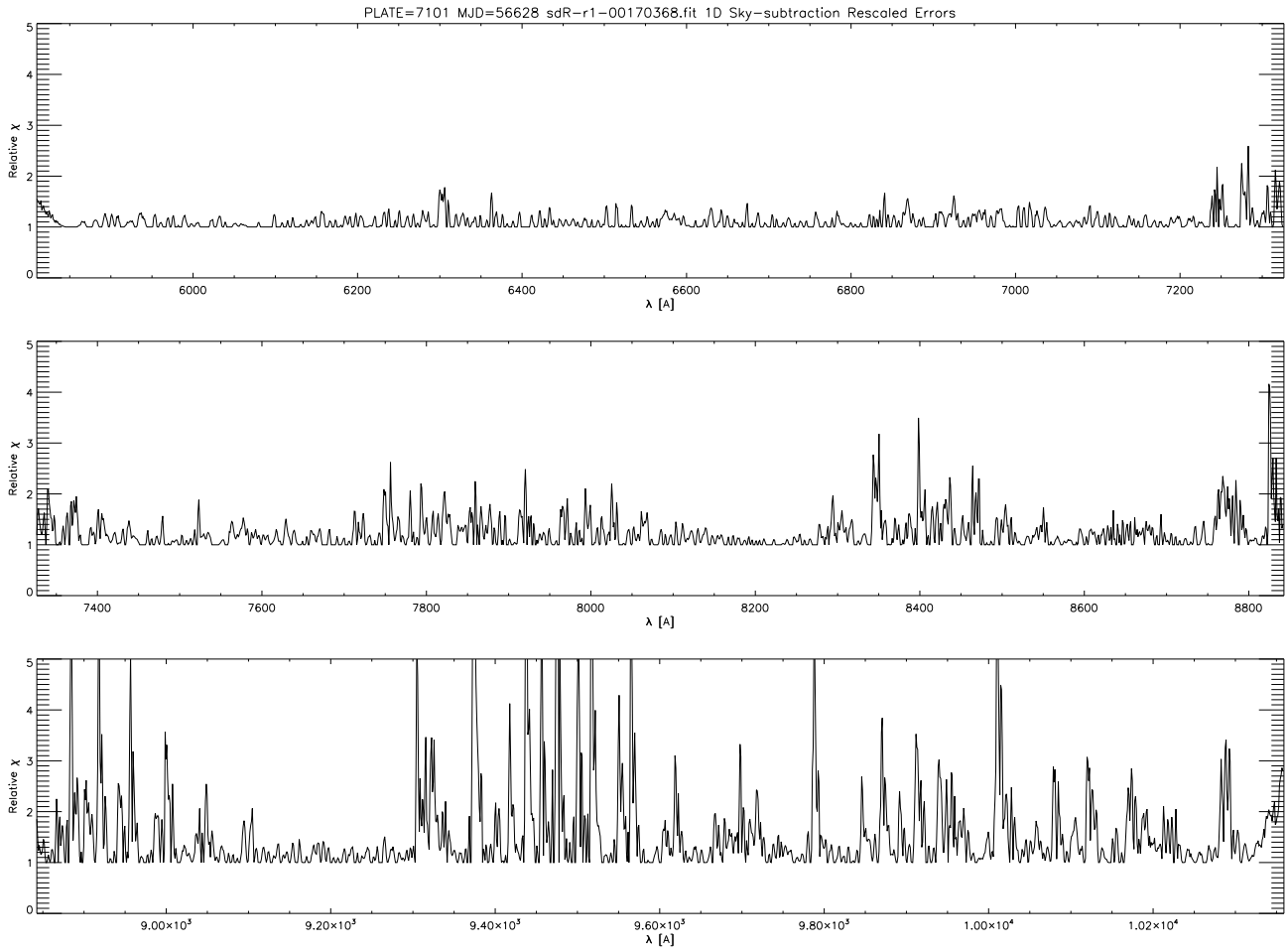

PLATE=7101 MJD=56628 Smooth superflat for sdR-r1-00170368.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

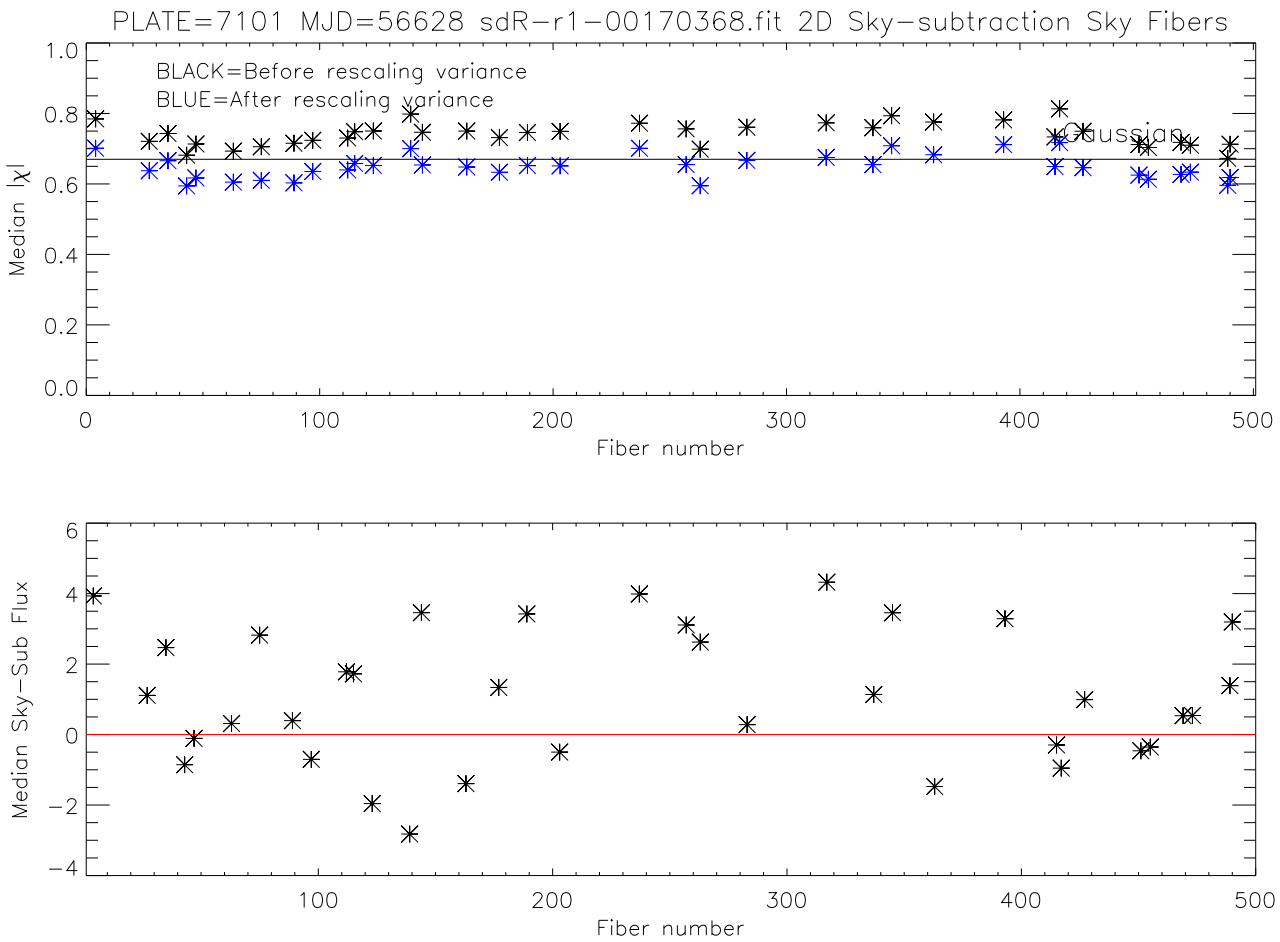

PLATE=7101 MJD=56628 sdR-r1-00170368.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

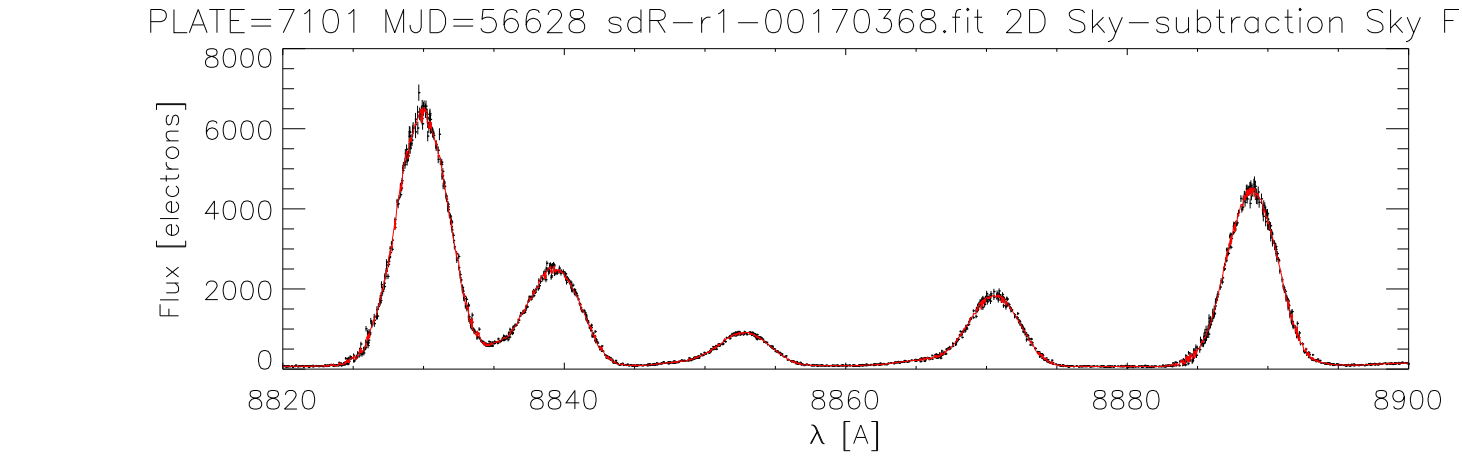

PLATE=7101 MJD=56628 sdR-r1-00170368.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

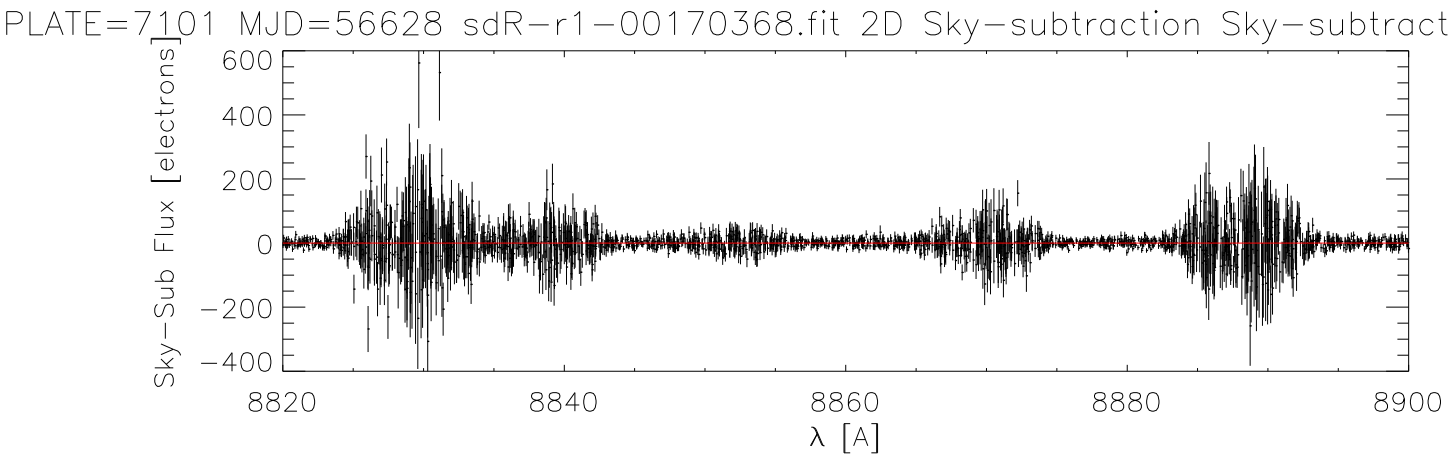

PLATE=7101 MJD=56628 sdR-r1-00170368.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
-400
-600
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 36

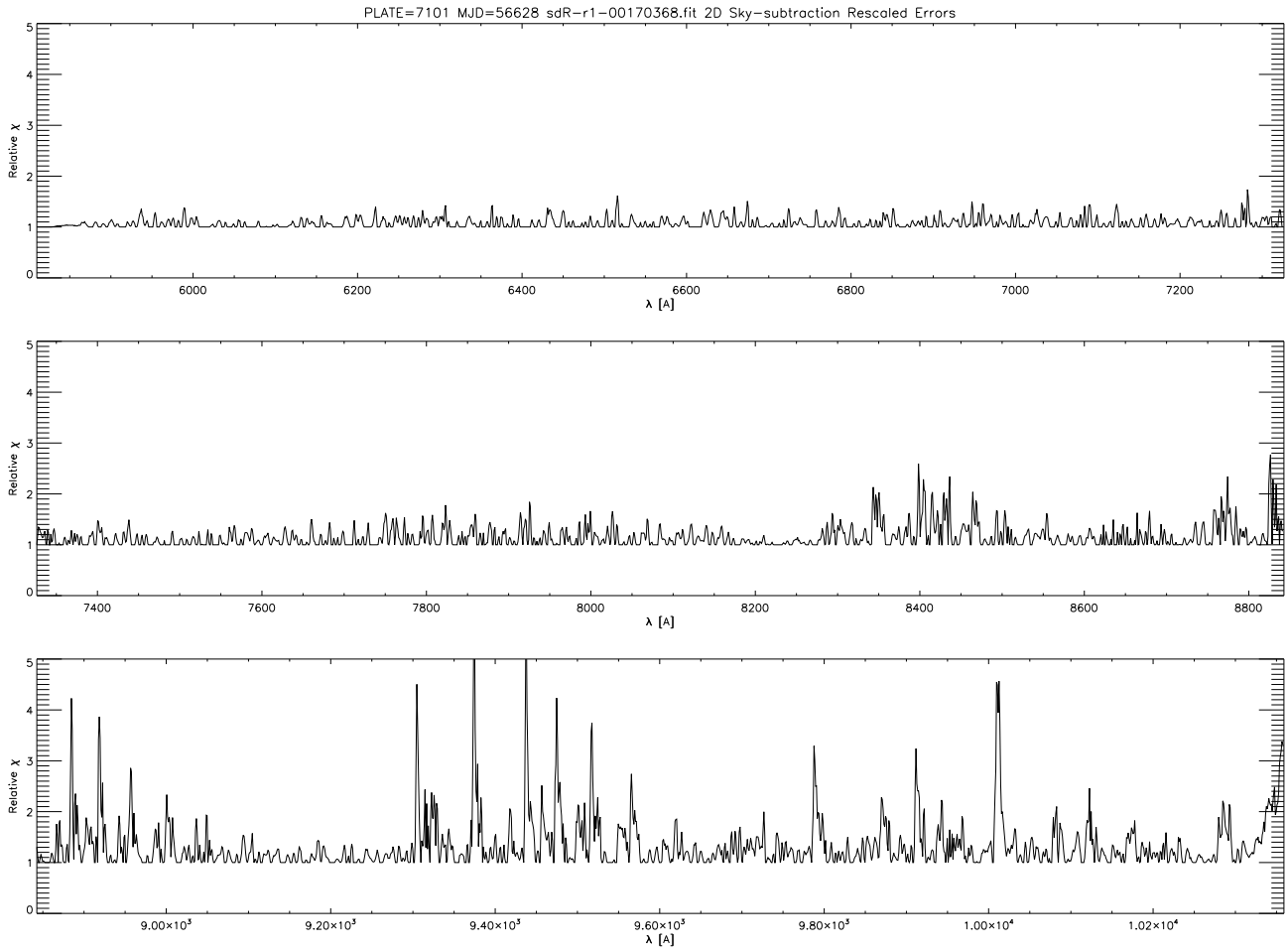


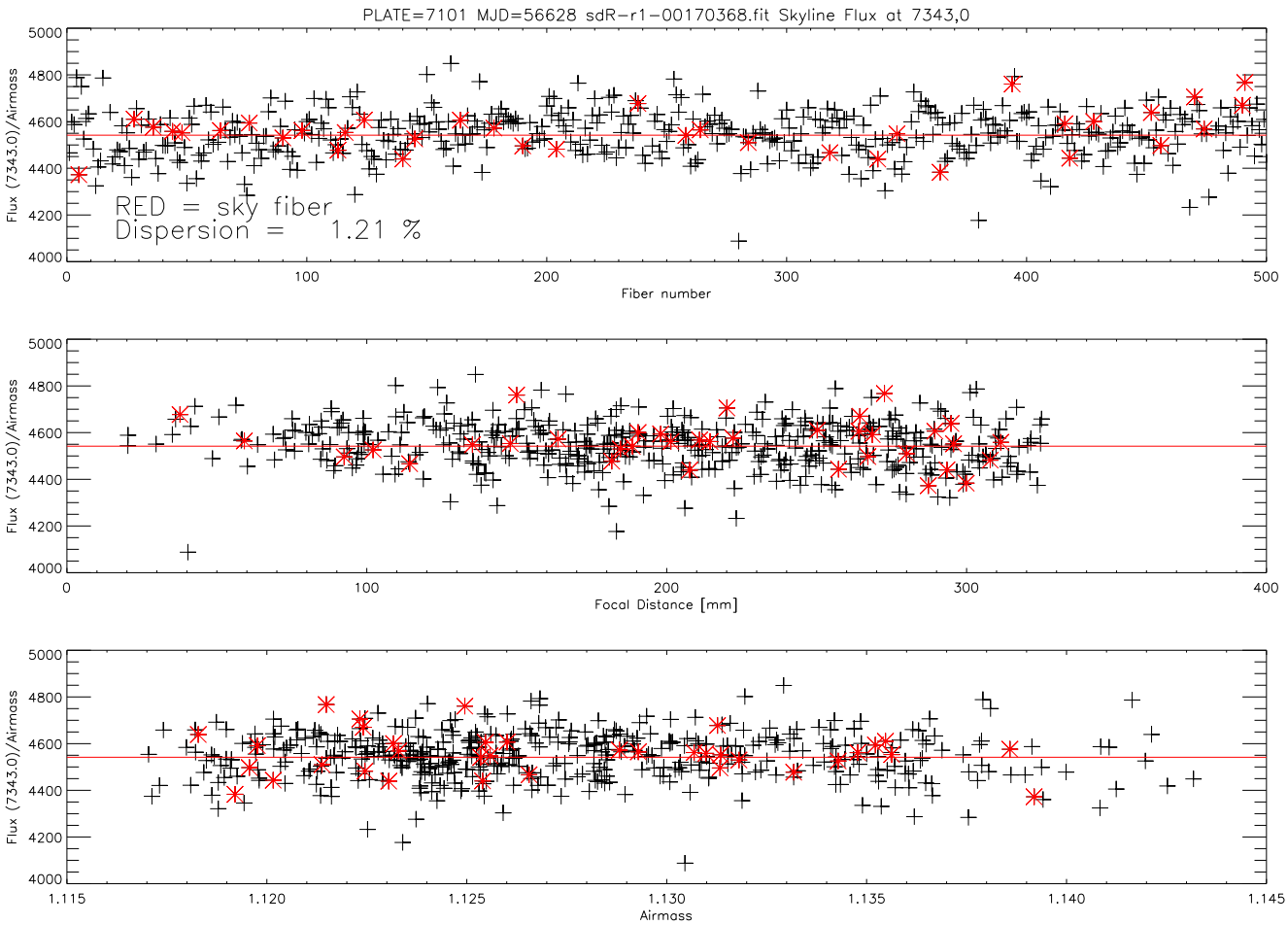

PLATE=7101 MJD=56628 sdR-r1-00170368.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

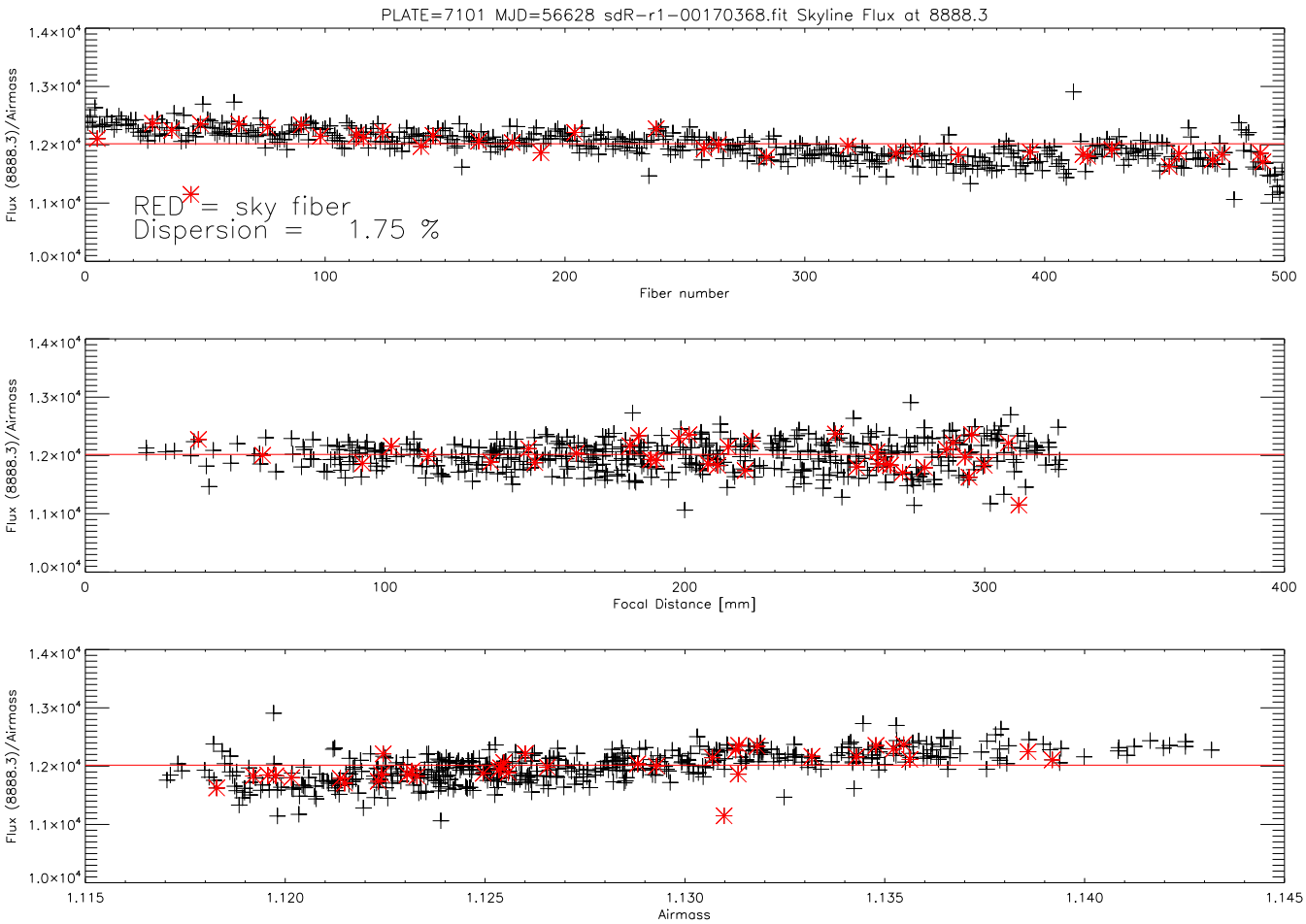

PLATE=7101 MJD=56628 sdR-r1-00170368.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

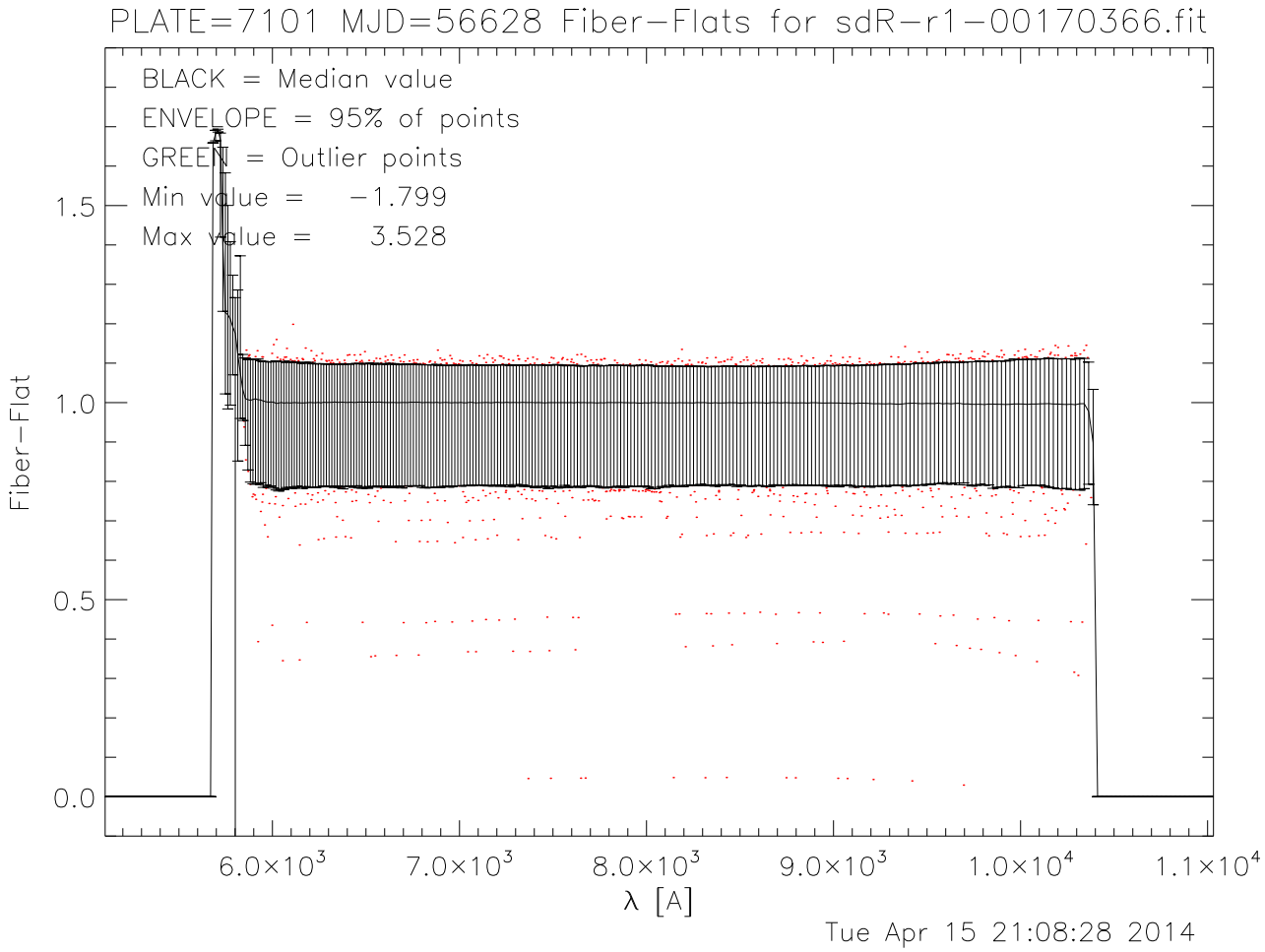

PLATE=7101 MJD=56628 sdR-r1-00170368.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

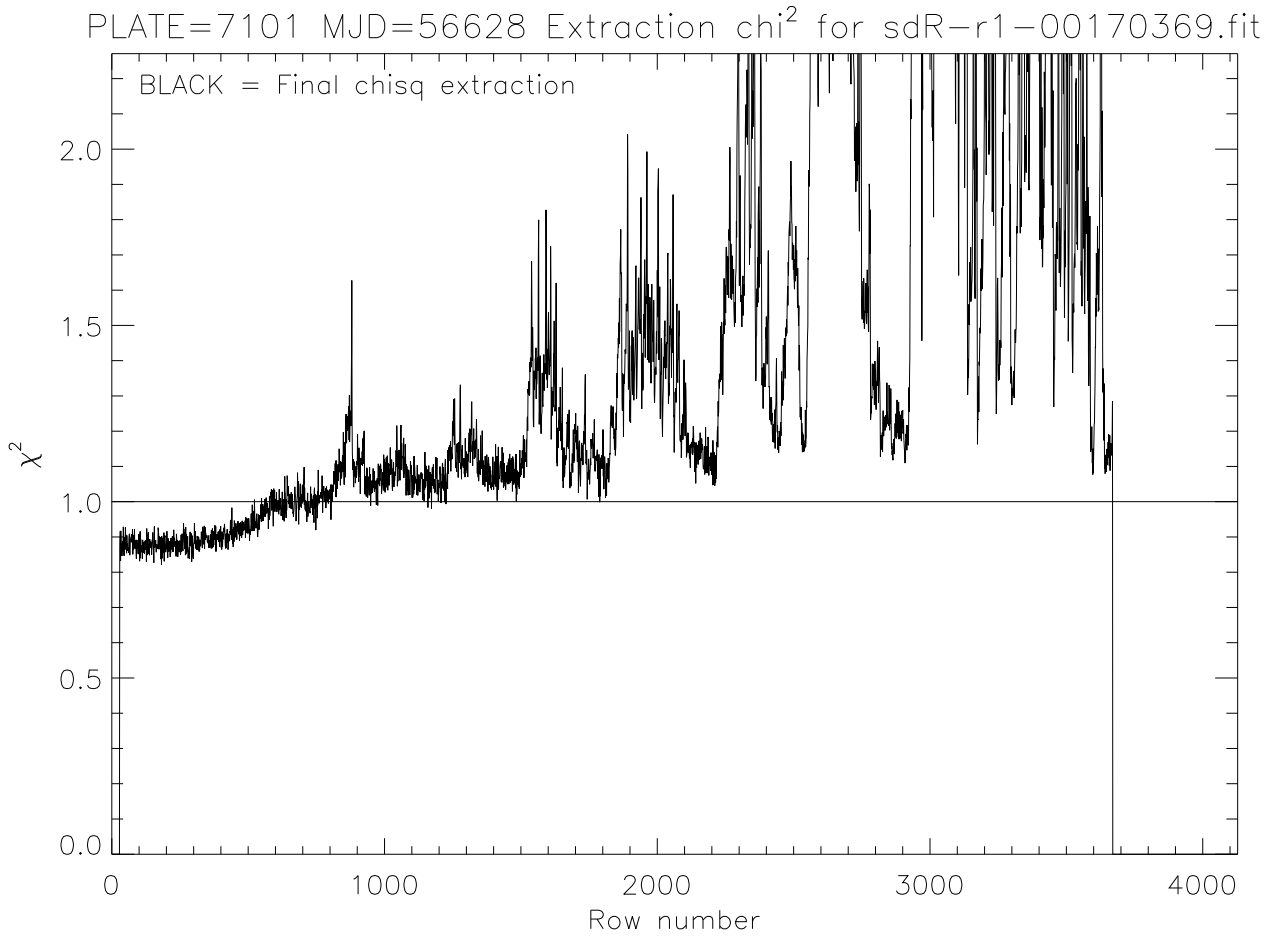
Number of sky fibers = 36

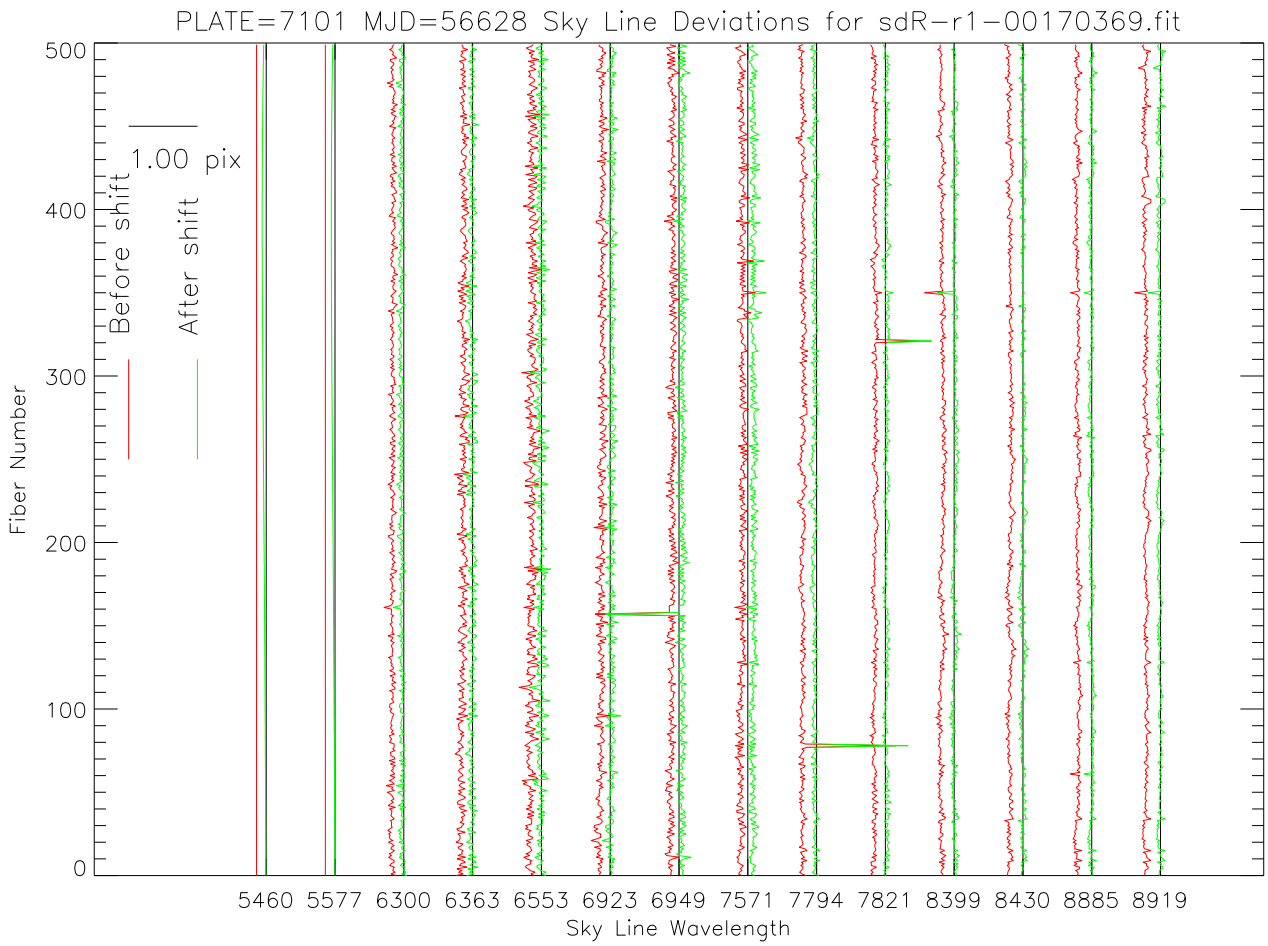


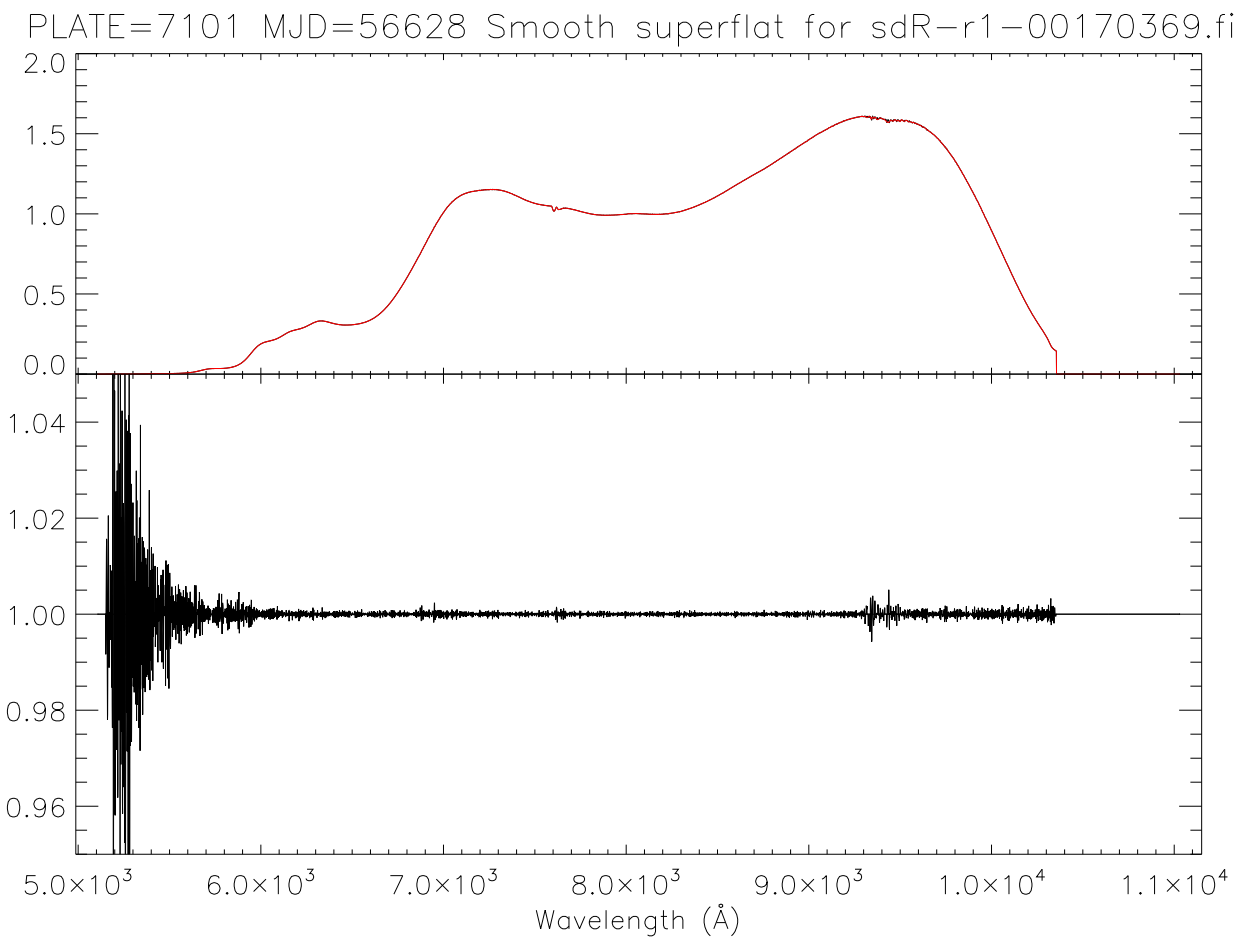

PLATE=7101 MJD=56628 sdR-r1-00170368.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 1.21 %
Fiber number
Focal Distance [mm]
Airmass

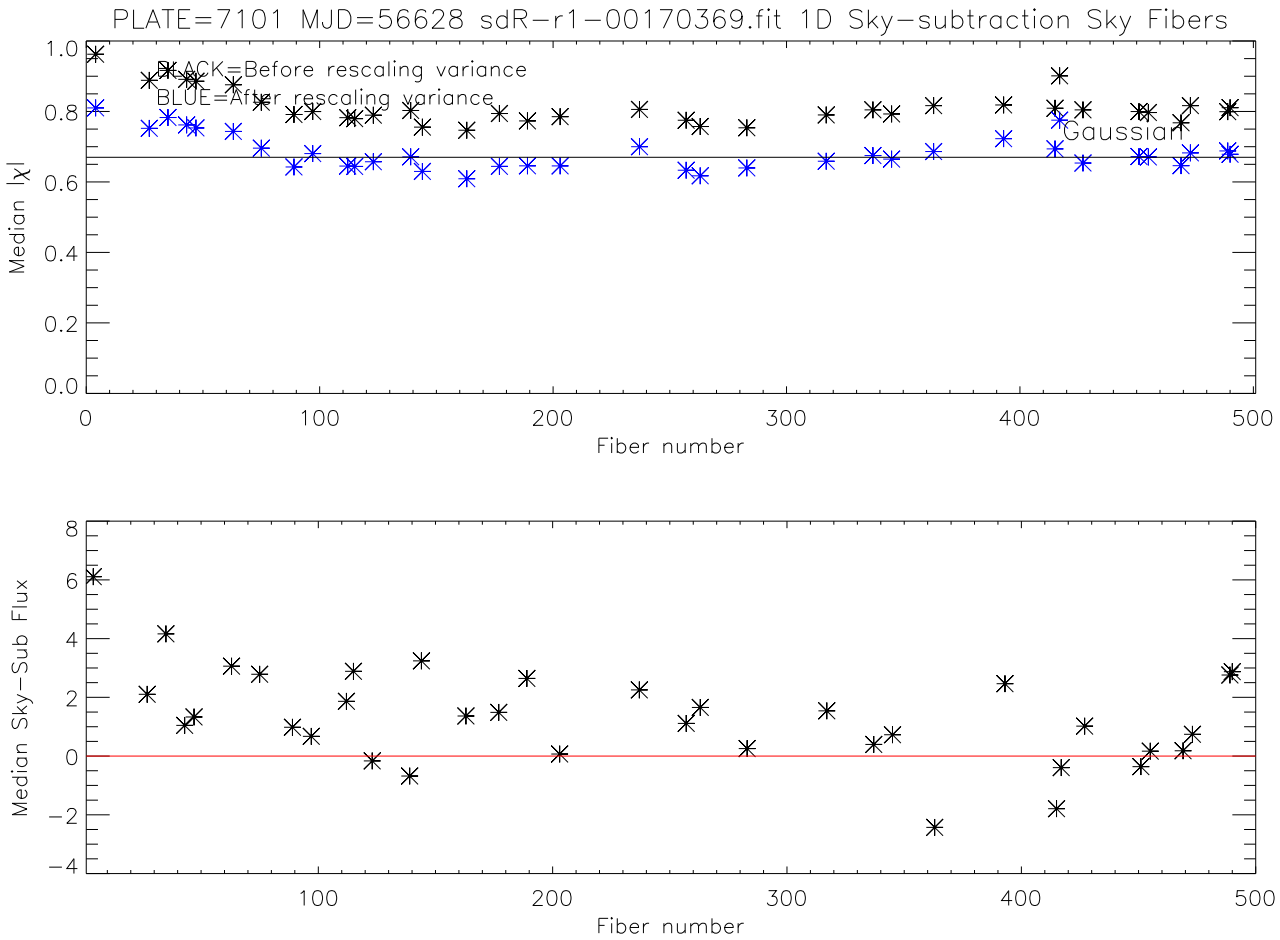

PLATE=7101 MJD=56628 sdR-r1-00170368.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.75 %
Fiber number
Focal Distance [mm]
Airmass

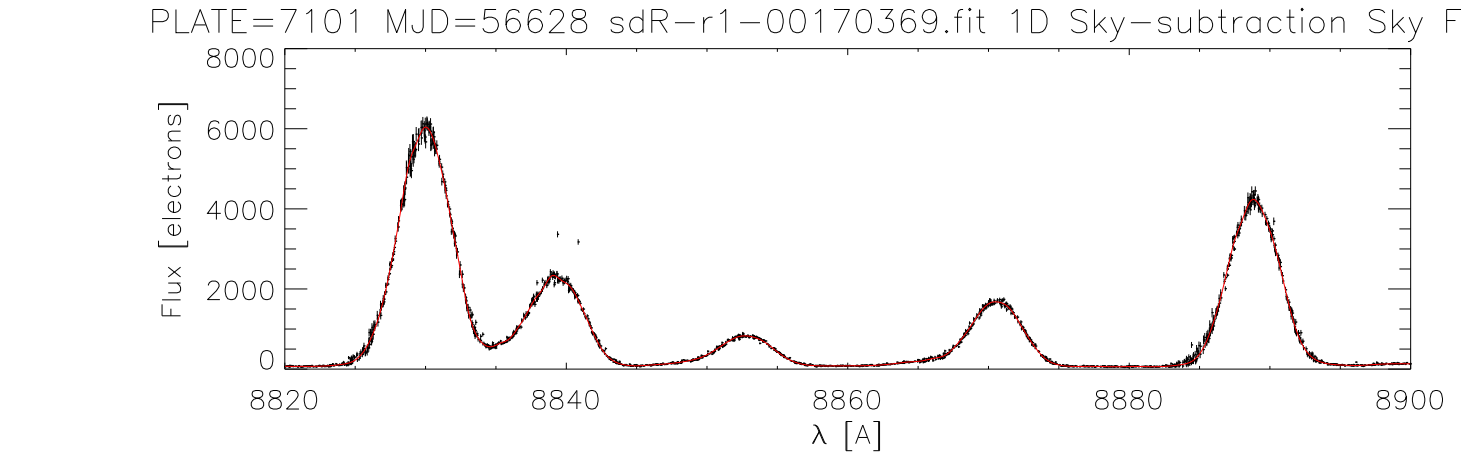

PLATE=7101 MJD=56628 Fiber−Flats for sdR−r1−00170366.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −1.799
Max value = 3.528
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Tue Apr 15 21:08:28 2014

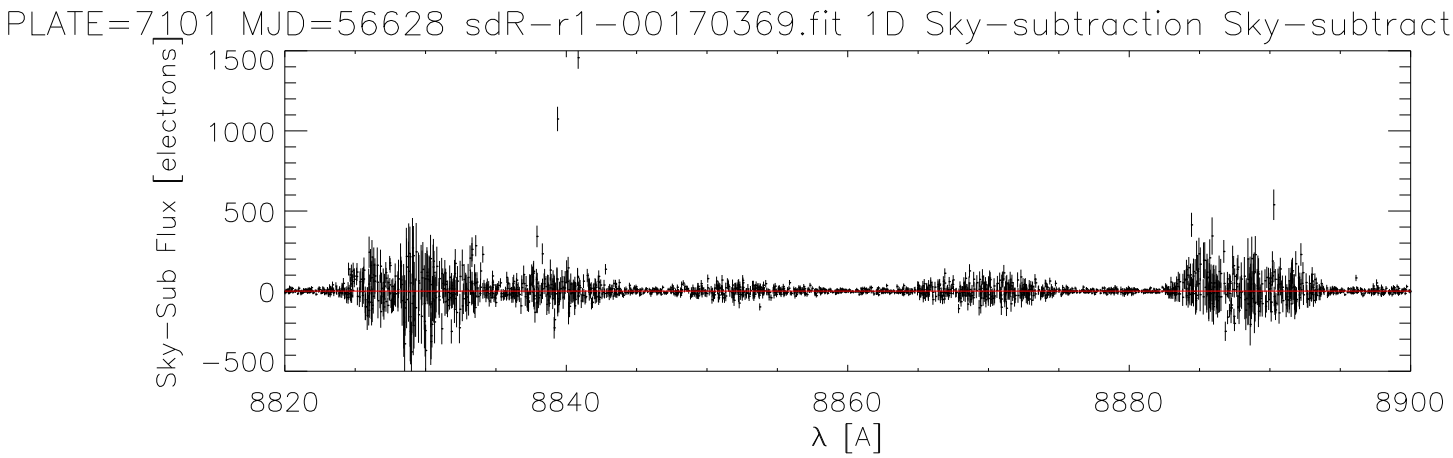

PLATE=7101 MJD=56628 Extraction chi^2 for sdR−r1−00170369.fit
BLACK = Final chisq extraction
2.0
1.5
1.0
0.5
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=7101 MJD=56628 Sky Line Deviations for sdR-r1-00170369.fit
Fiber Number
Sky Line Wavelength
Before shift
After shift
1.00 pix
0
100
200
300
400
500
5460 5577 6300 6363 6553 6923 6949 7571 7794 7821 8399 8430 8885 8919

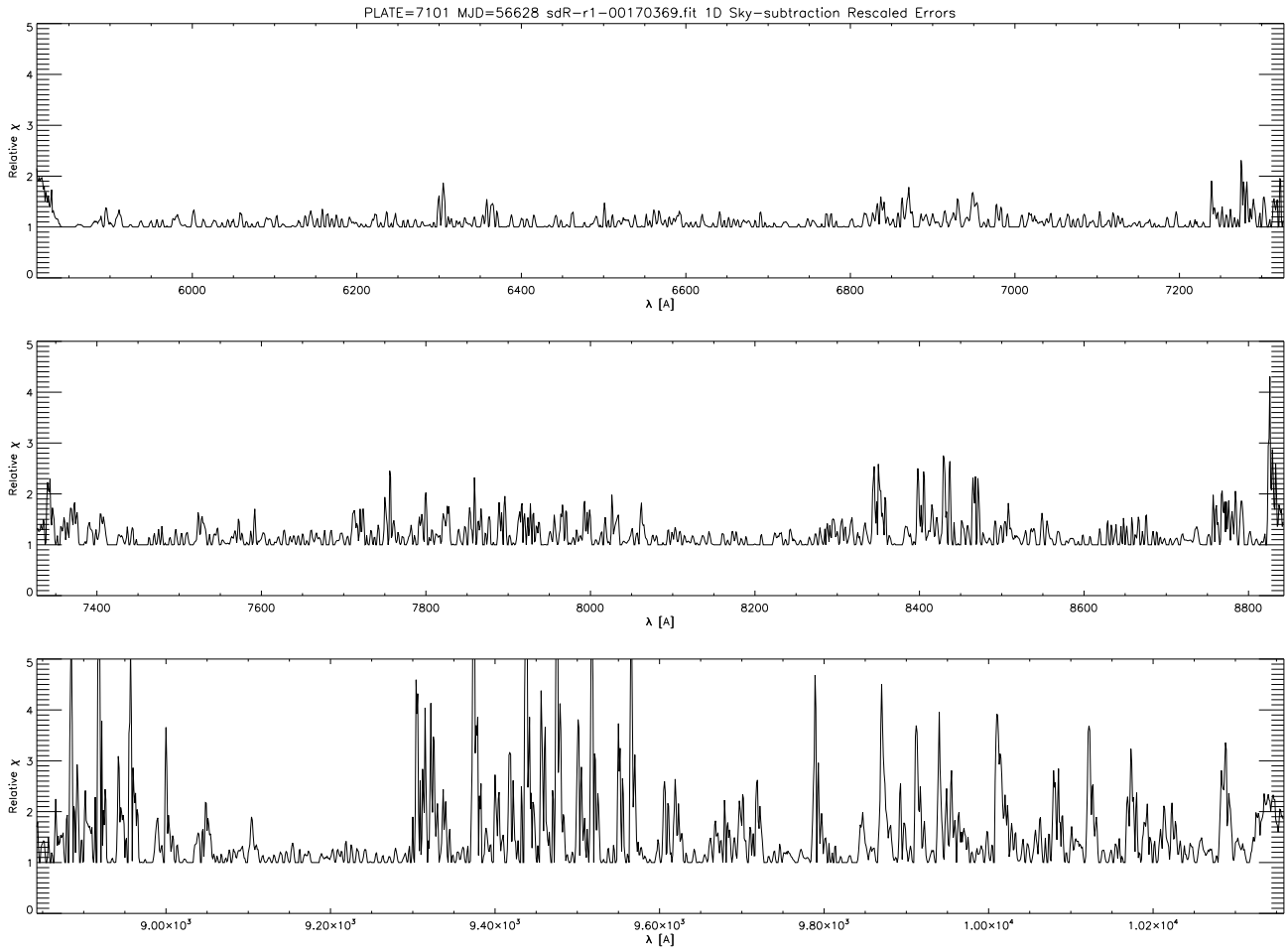

PLATE=7101 MJD=56628 Smooth superflat for sdR-r1-00170369.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

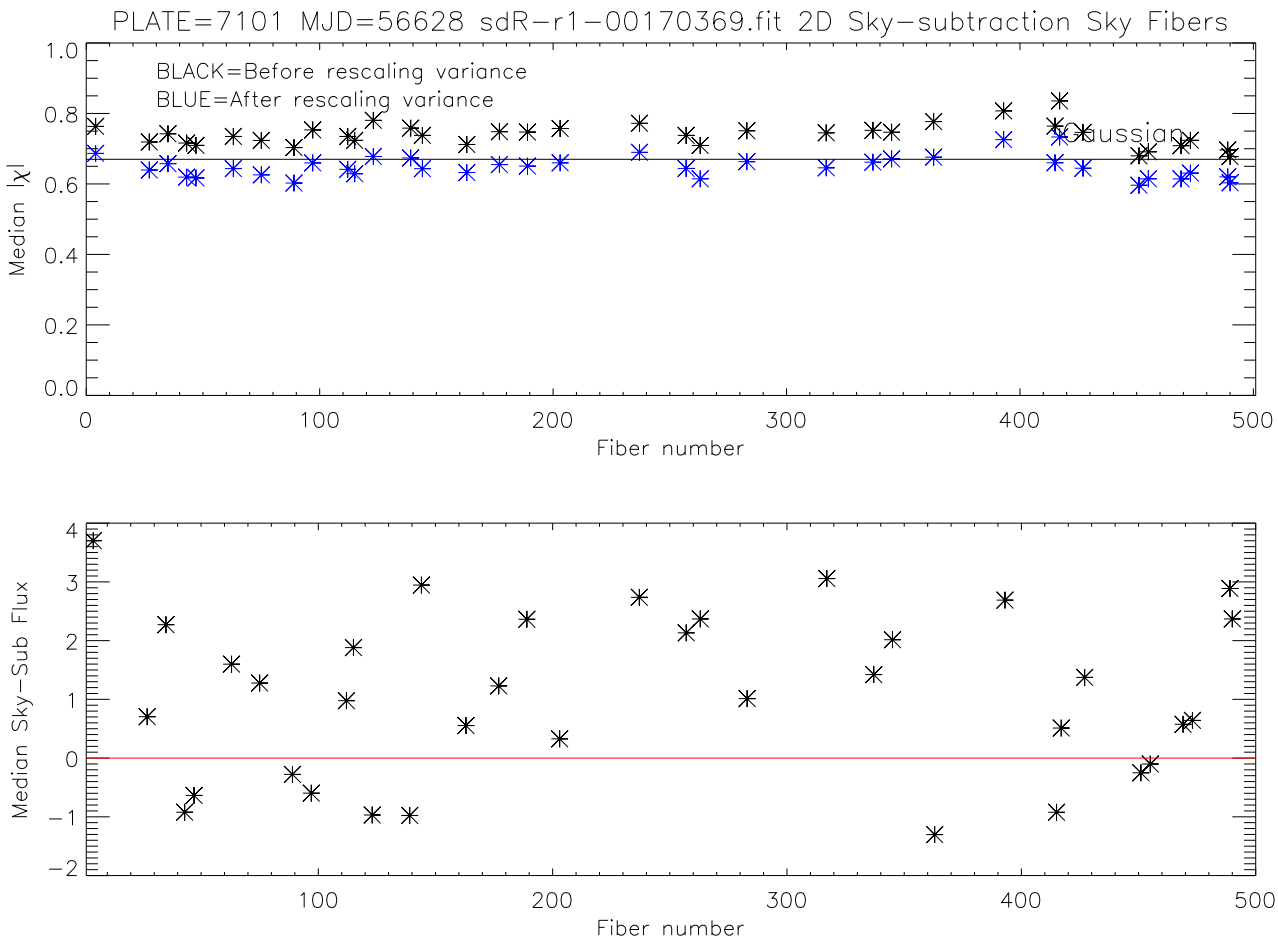

PLATE=7101 MJD=56628 sdR-r1-00170369.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

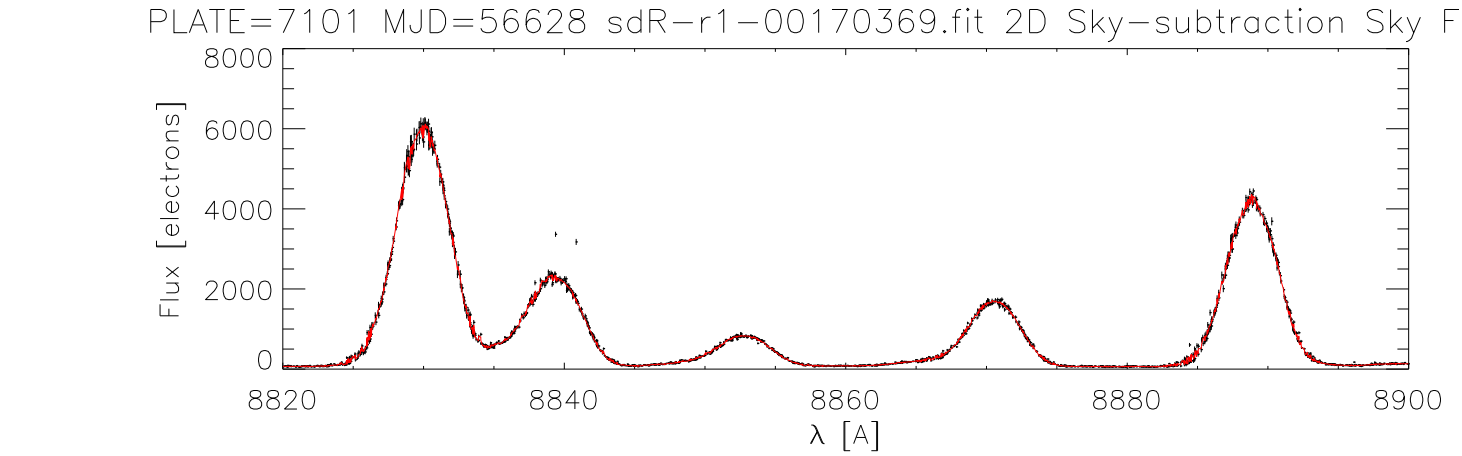

PLATE=7101 MJD=56628 sdR-r1-00170369.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

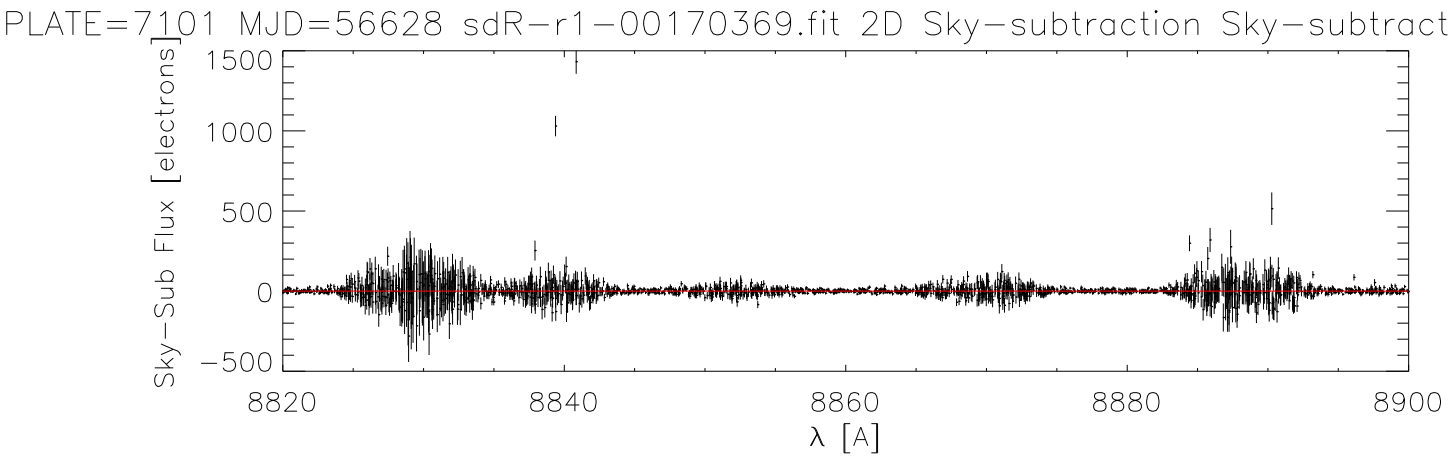

PLATE=7101 MJD=56628 sdR-r1-00170369.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 36

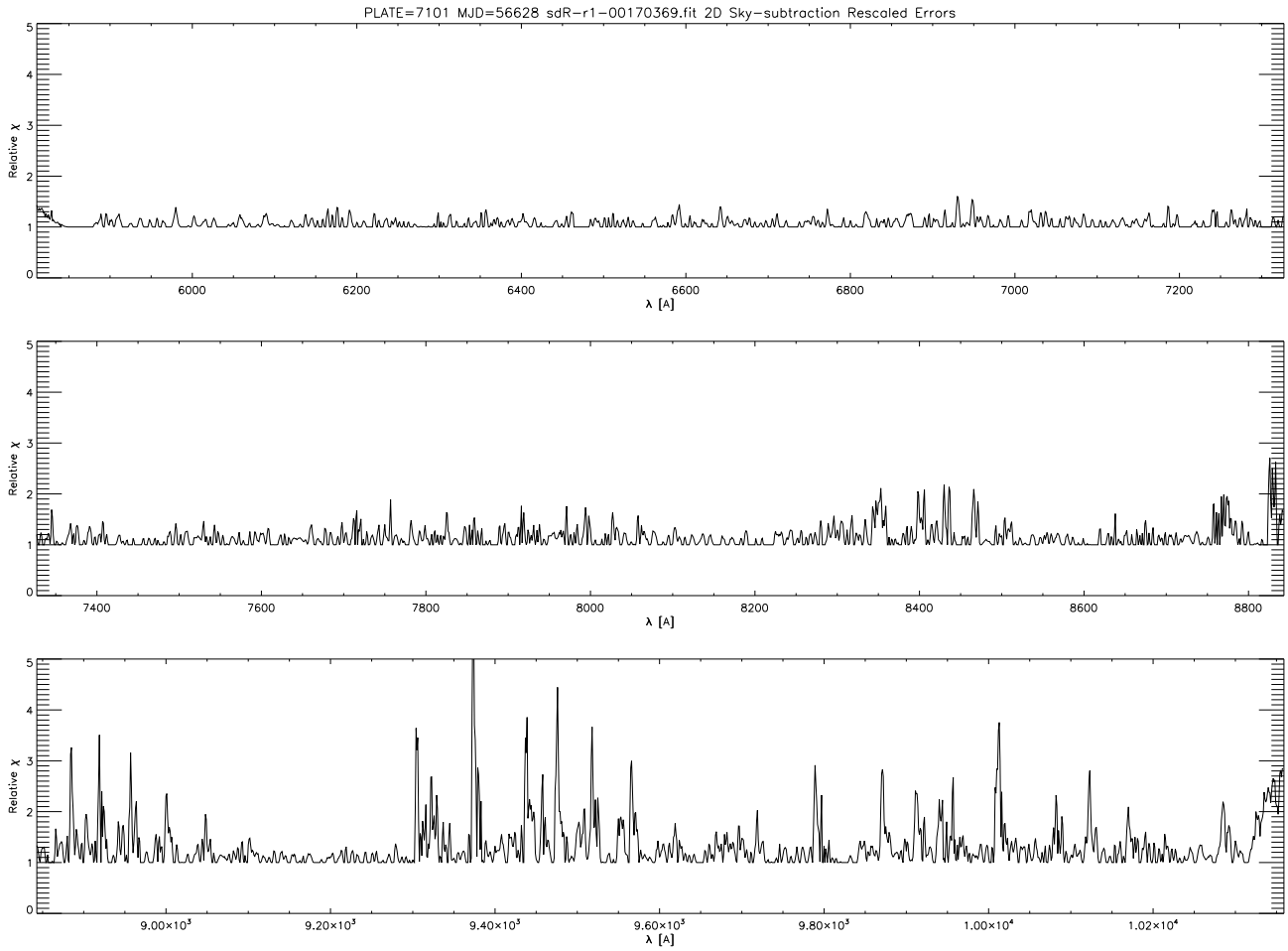


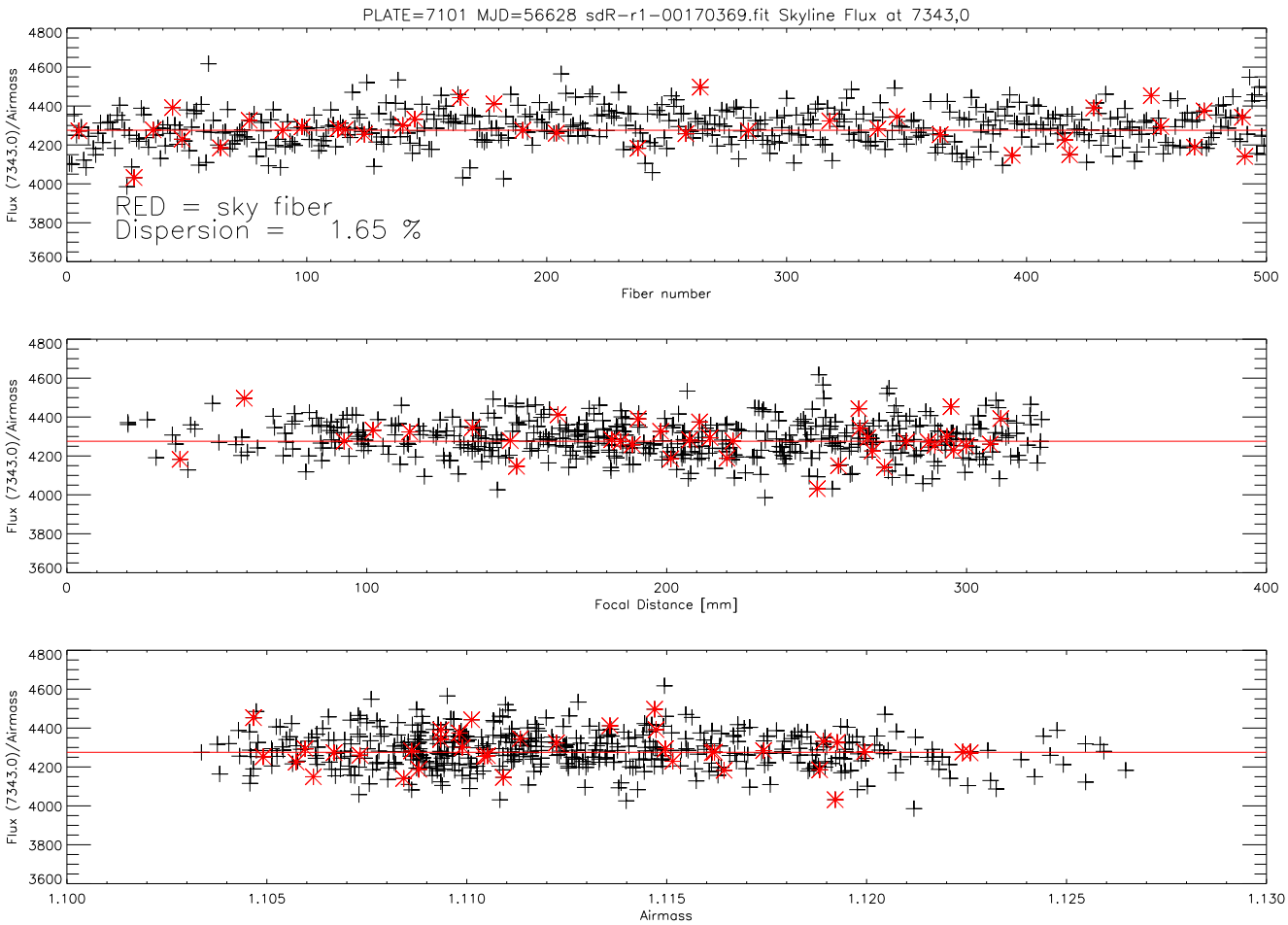

PLATE=7101 MJD=56628 sdR-r1-00170369.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

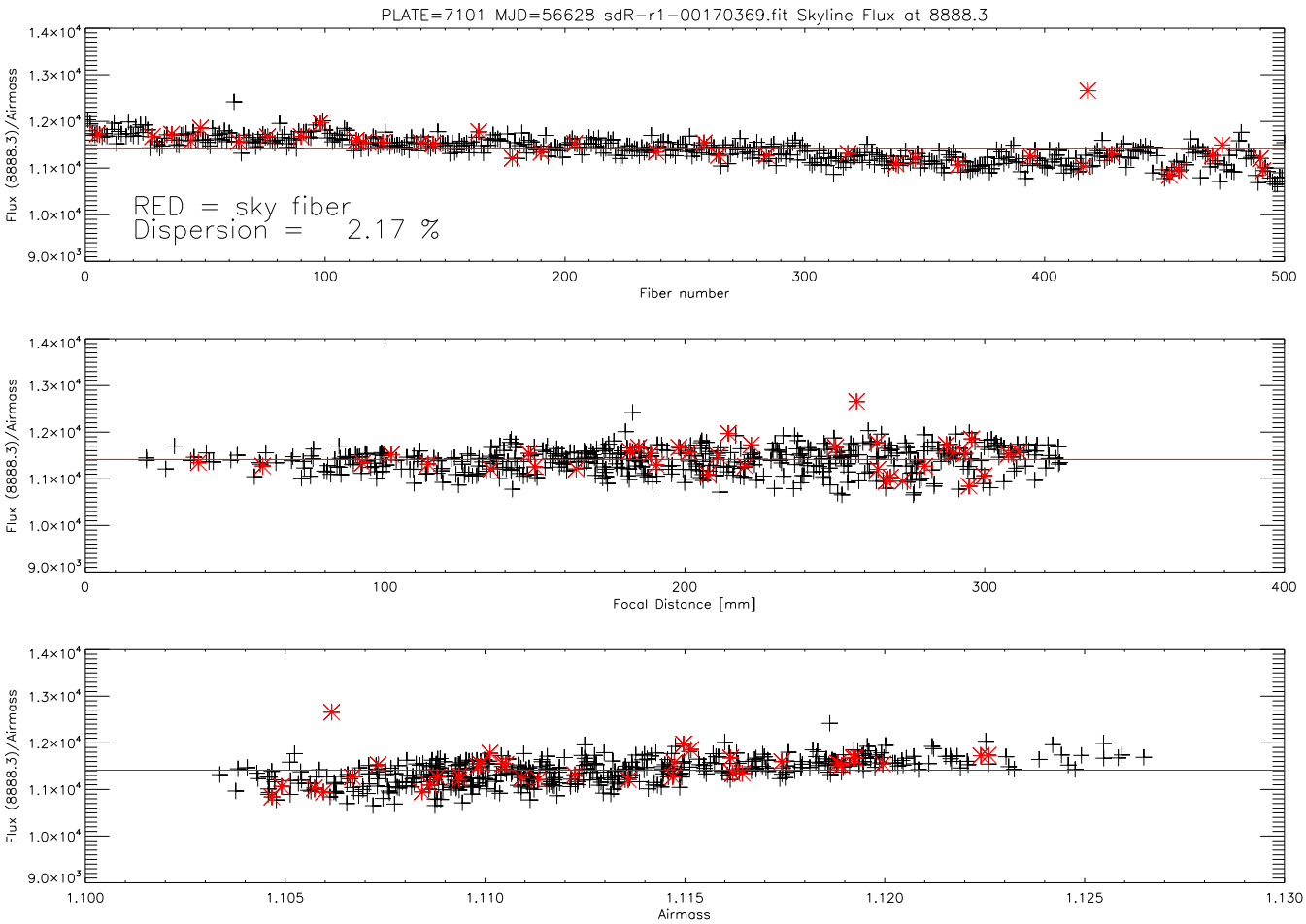

PLATE=7101 MJD=56628 sdR-r1-00170369.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

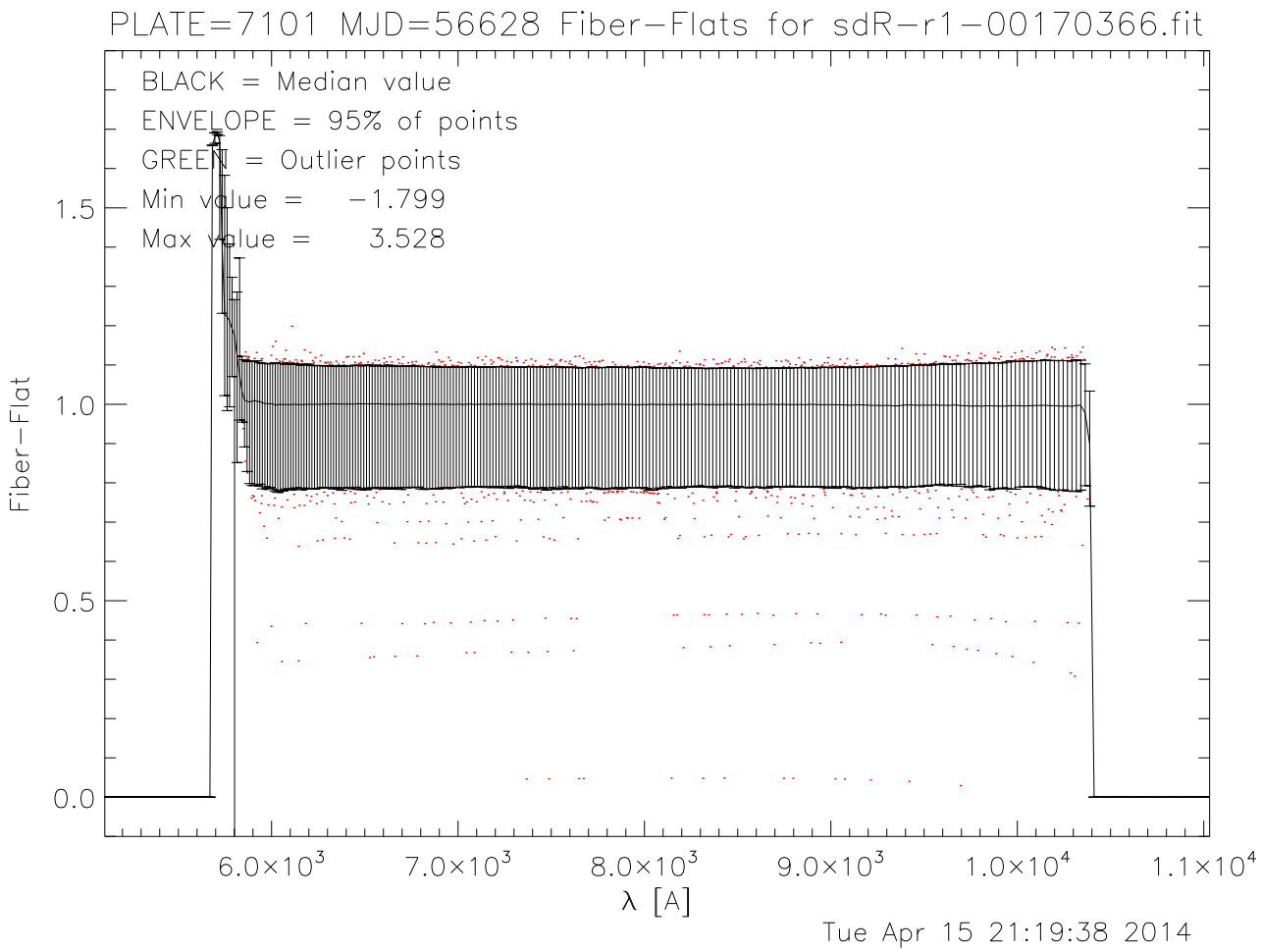

PLATE=7101 MJD=56628 sdR-r1-00170369.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
−500
8820
8840
8860
8880
8900
λ [A]

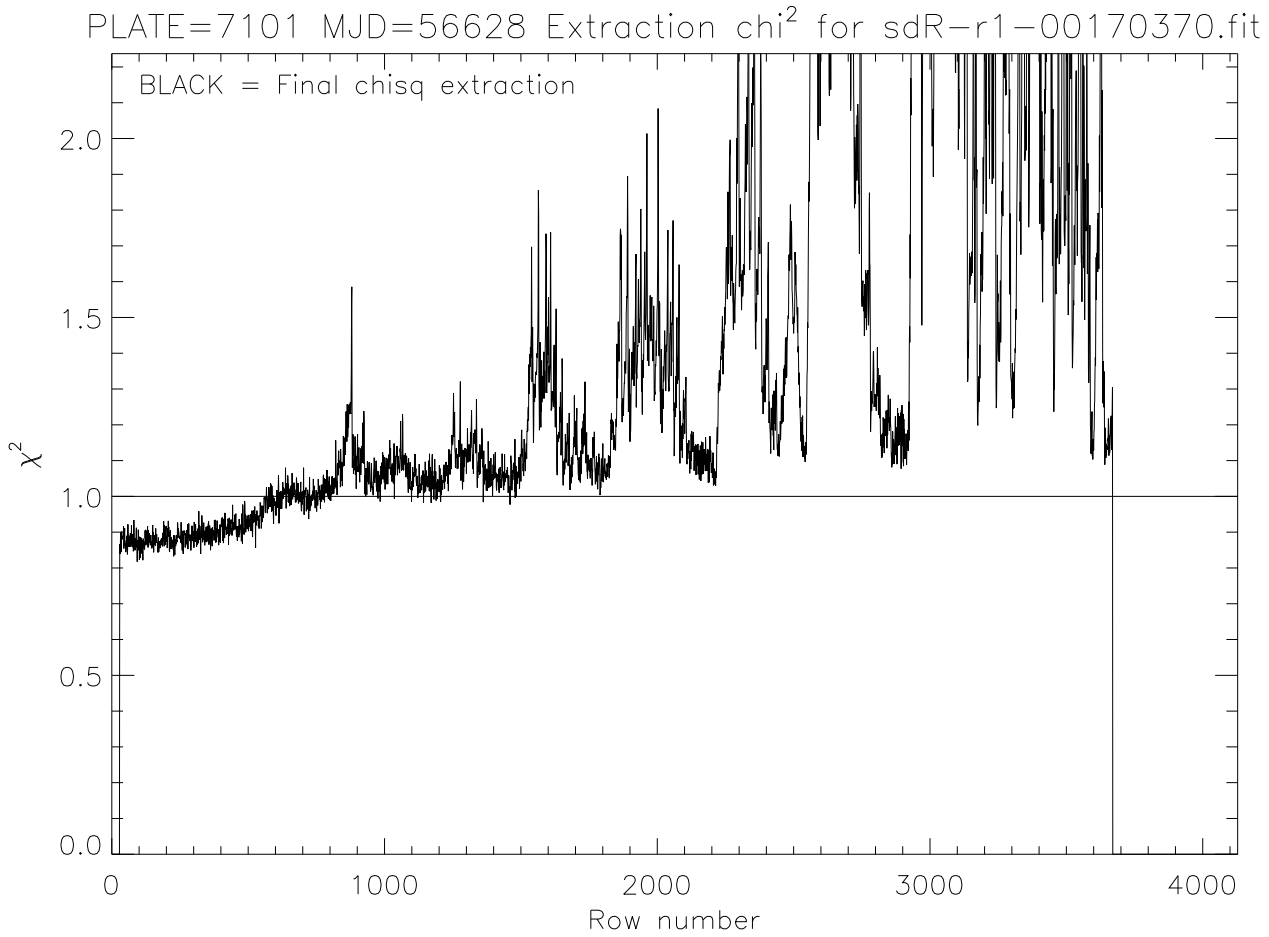
Number of sky fibers = 36

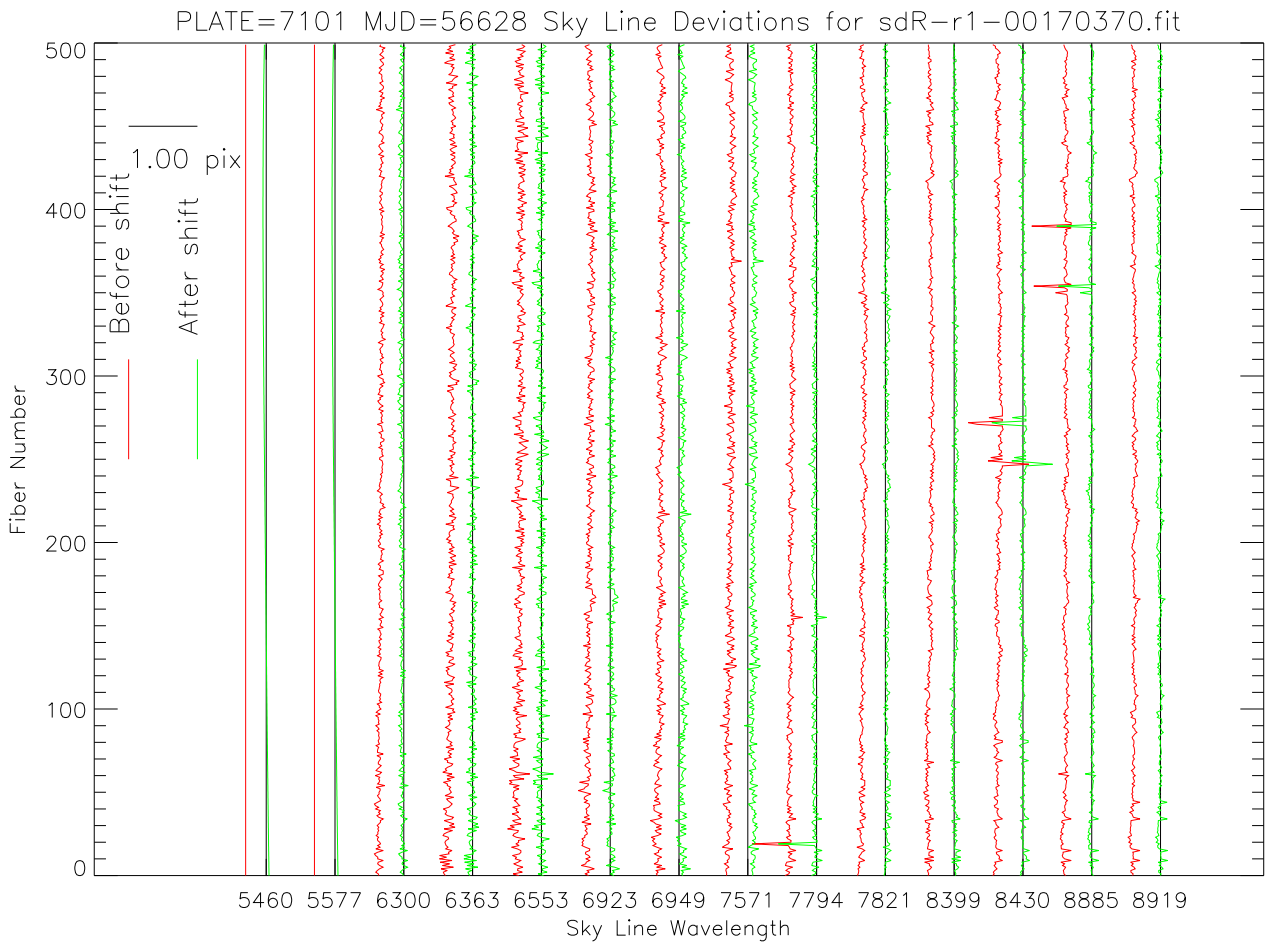


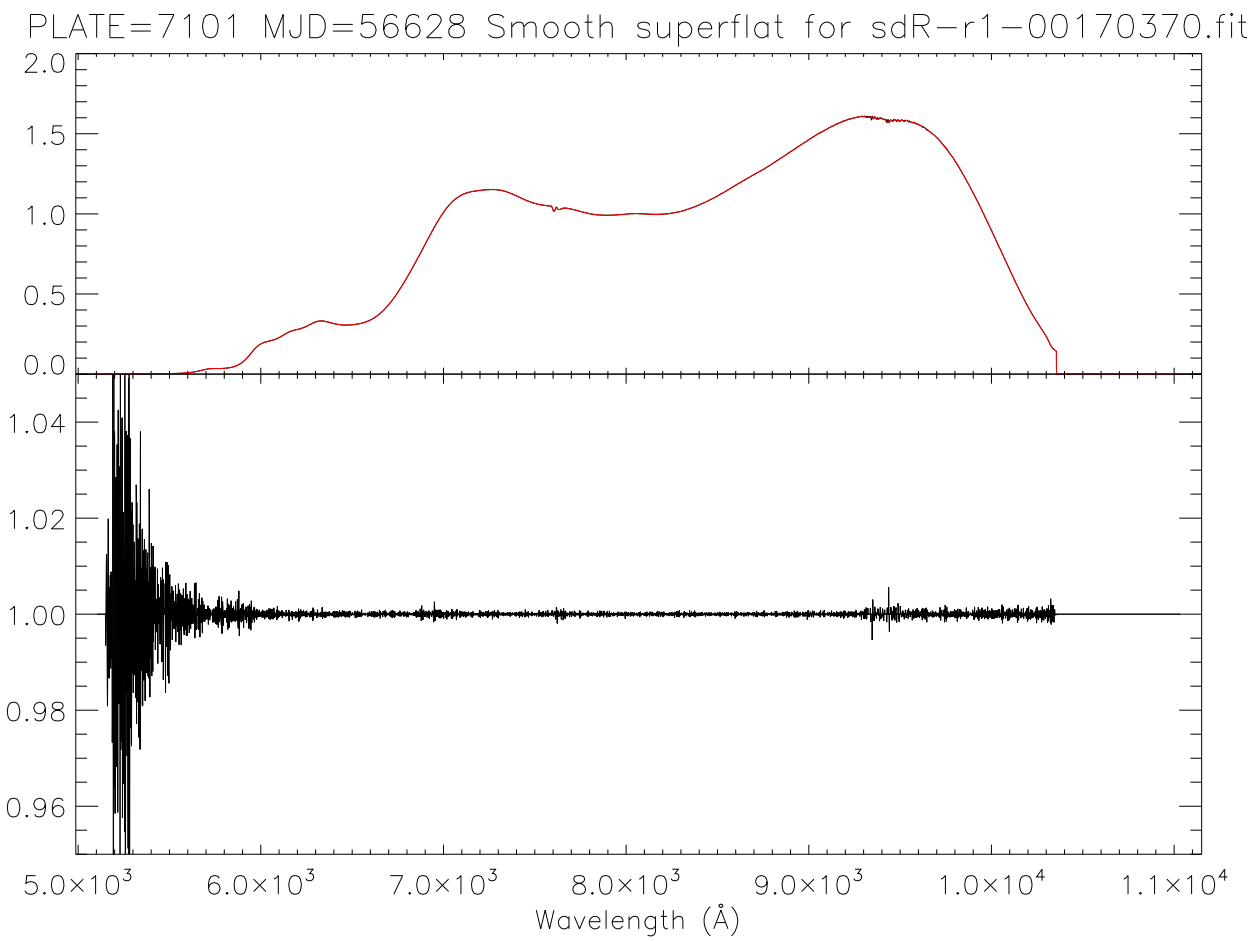

PLATE=7101 MJD=56628 sdR-r1-00170369.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 1.65 %
Fiber number
Focal Distance [mm]
Airmass

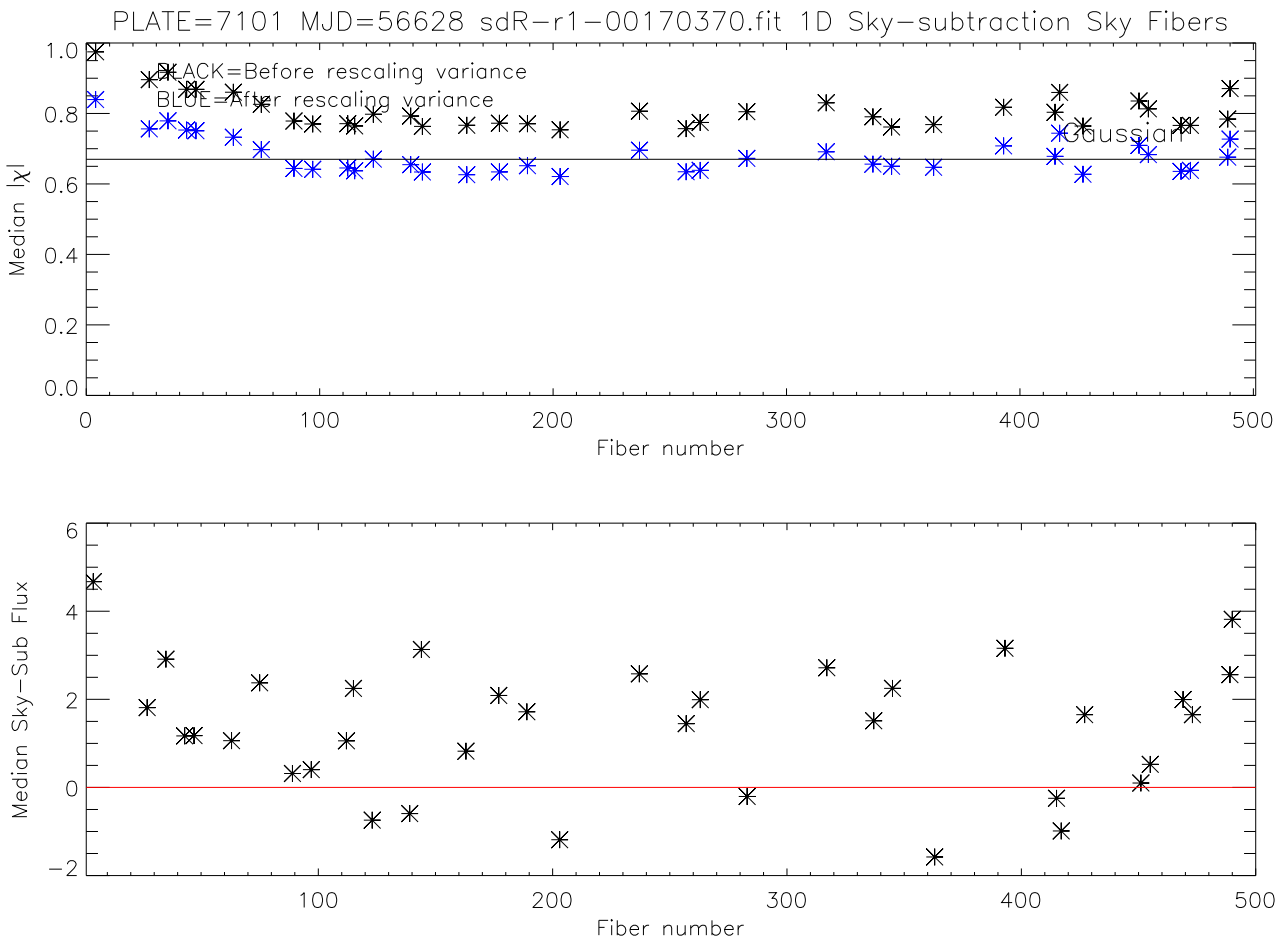

PLATE=7101 MJD=56628 sdR-r1-00170369.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.17 %
Fiber number
Focal Distance [mm]
Airmass

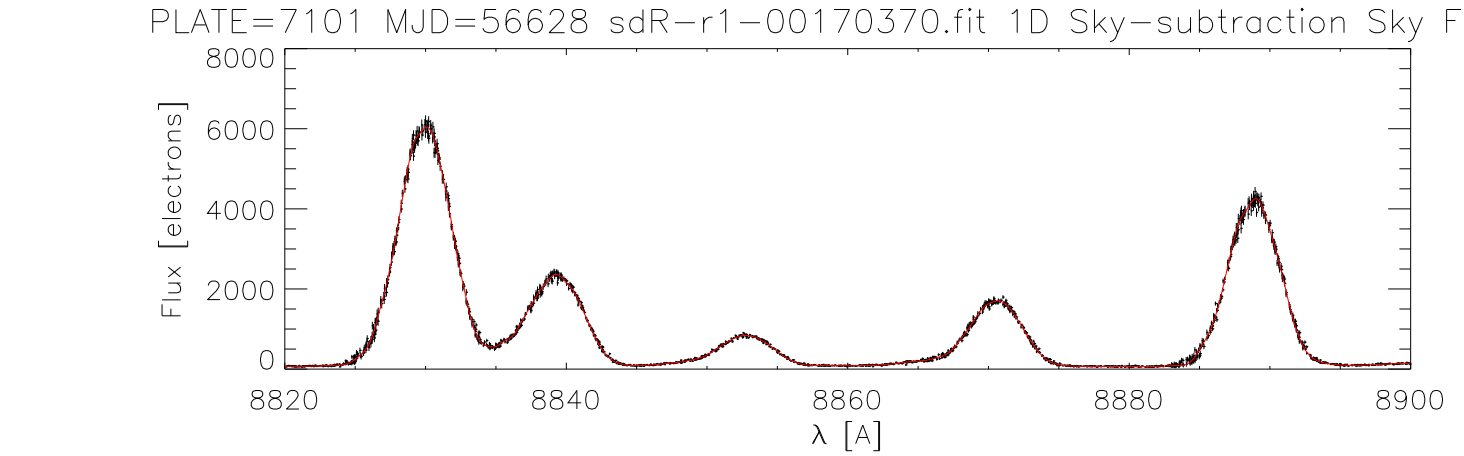

PLATE=7101 MJD=56628 Fiber−Flats for sdR−r1−00170366.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −1.799
Max value = 3.528
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Tue Apr 15 21:19:38 2014

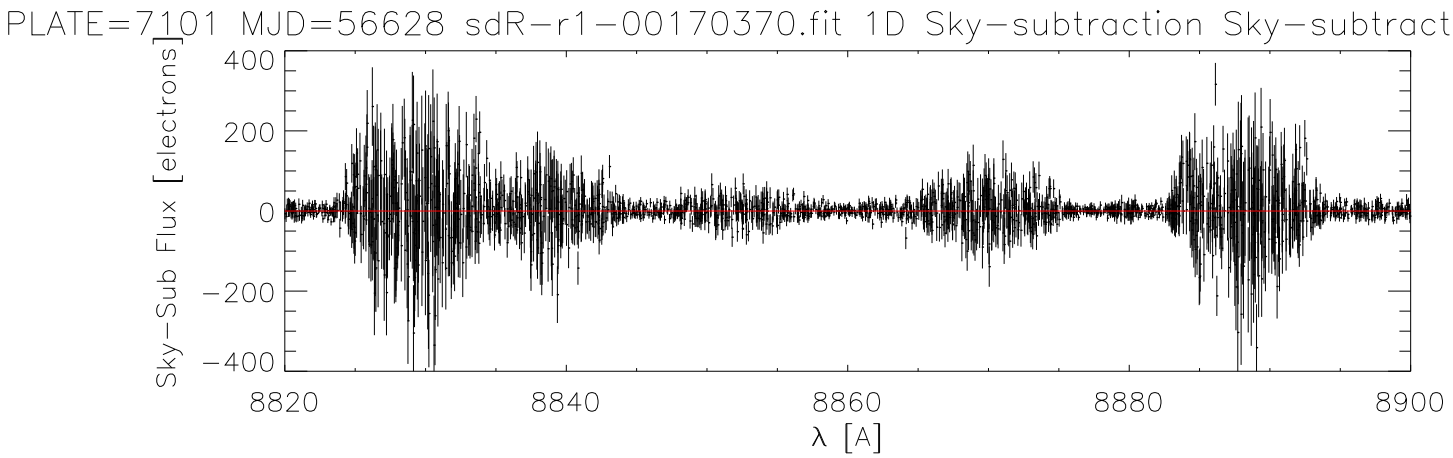

PLATE=7101 MJD=56628 Extraction chi^2 for sdR−r1−00170370.fit
BLACK = Final chisq extraction
χ^2
0.0
0.5
1.0
1.5
2.0
0
1000
2000
3000
4000
Row number


PLATE=7101 MJD=56628 Sky Line Deviations for sdR-r1-00170370.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

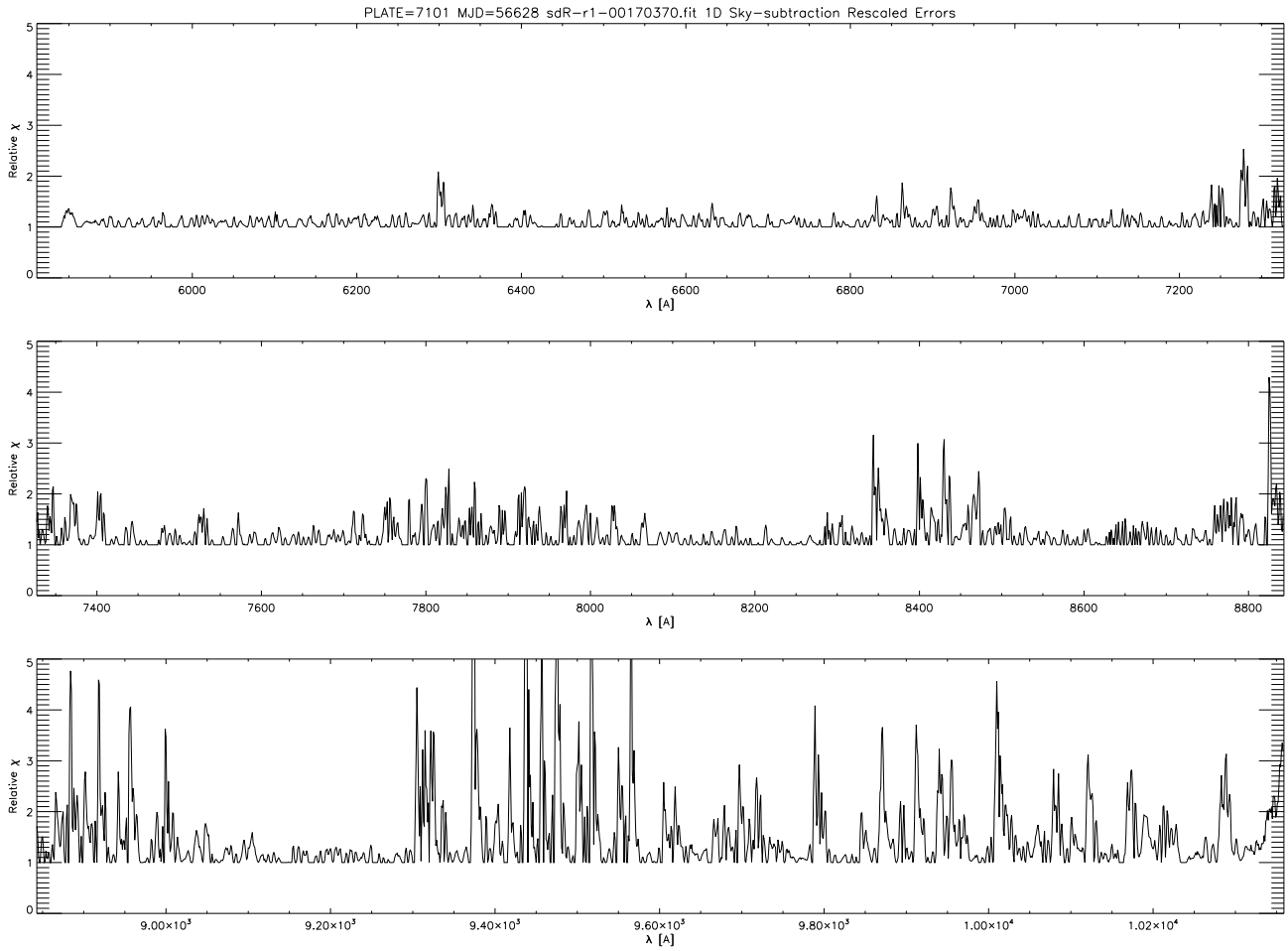

PLATE=7101 MJD=56628 Smooth superflat for sdR-r1-00170370.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

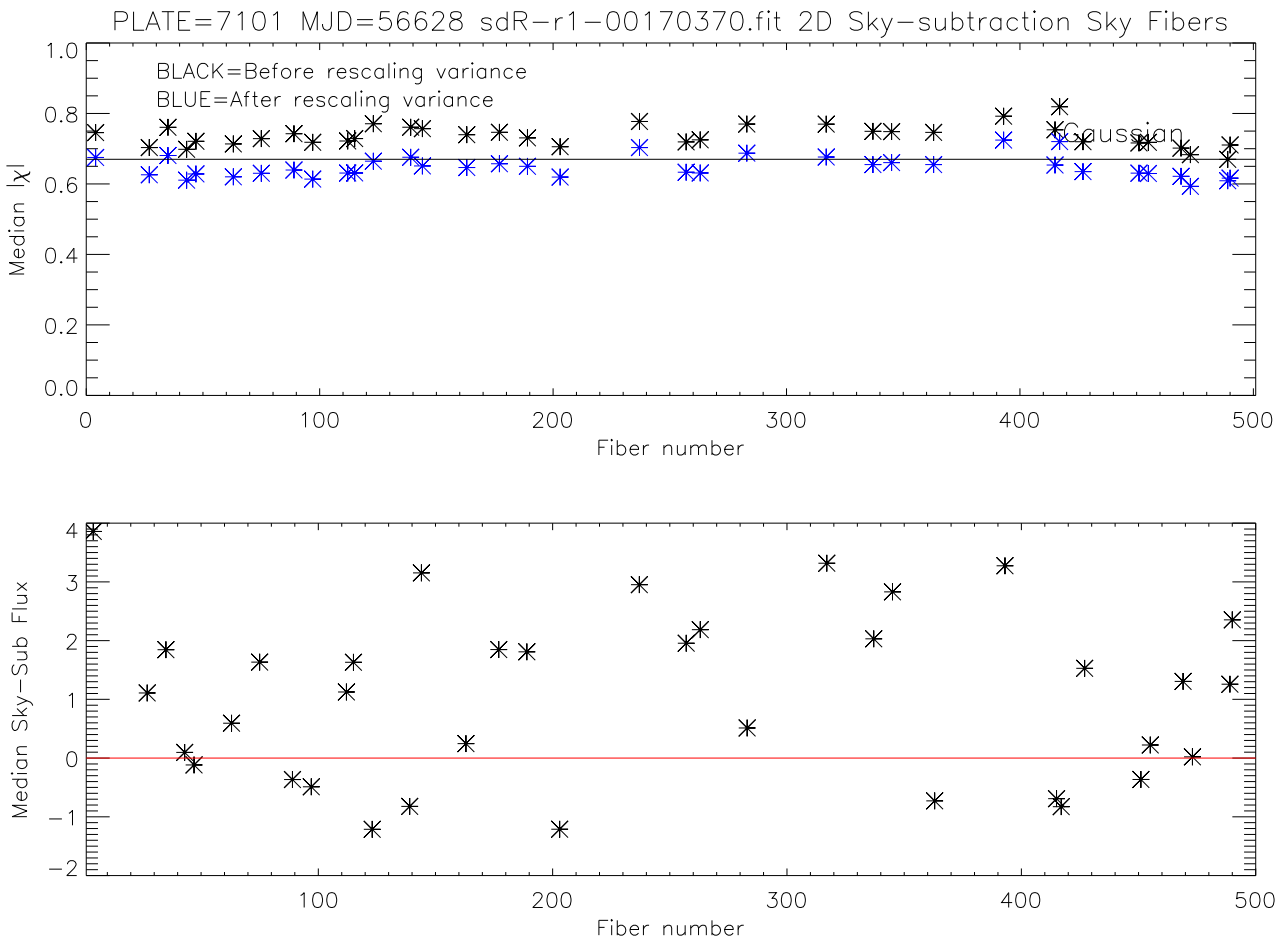

PLATE=7101 MJD=56628 sdR-r1-00170370.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

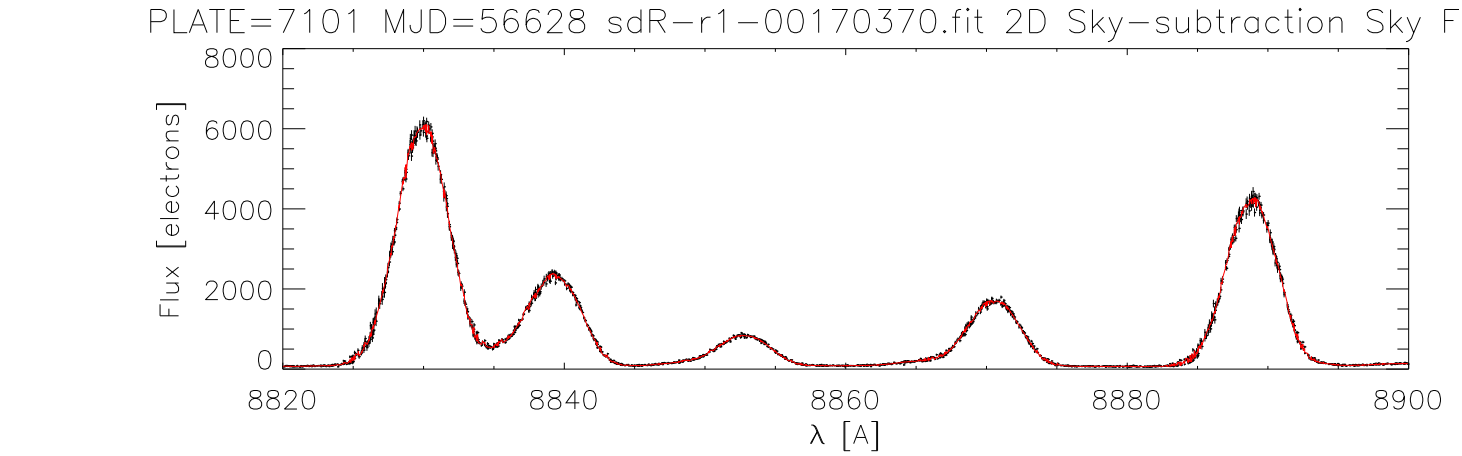

PLATE=7101 MJD=56628 sdR-r1-00170370.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

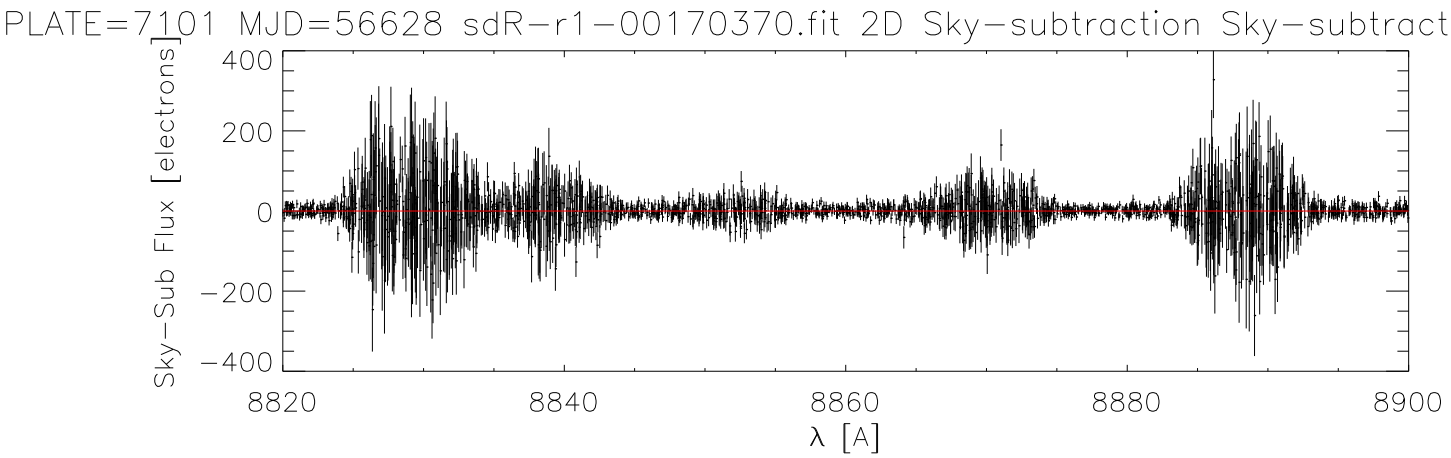

PLATE=7101 MJD=56628 sdR-r1-00170370.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 36

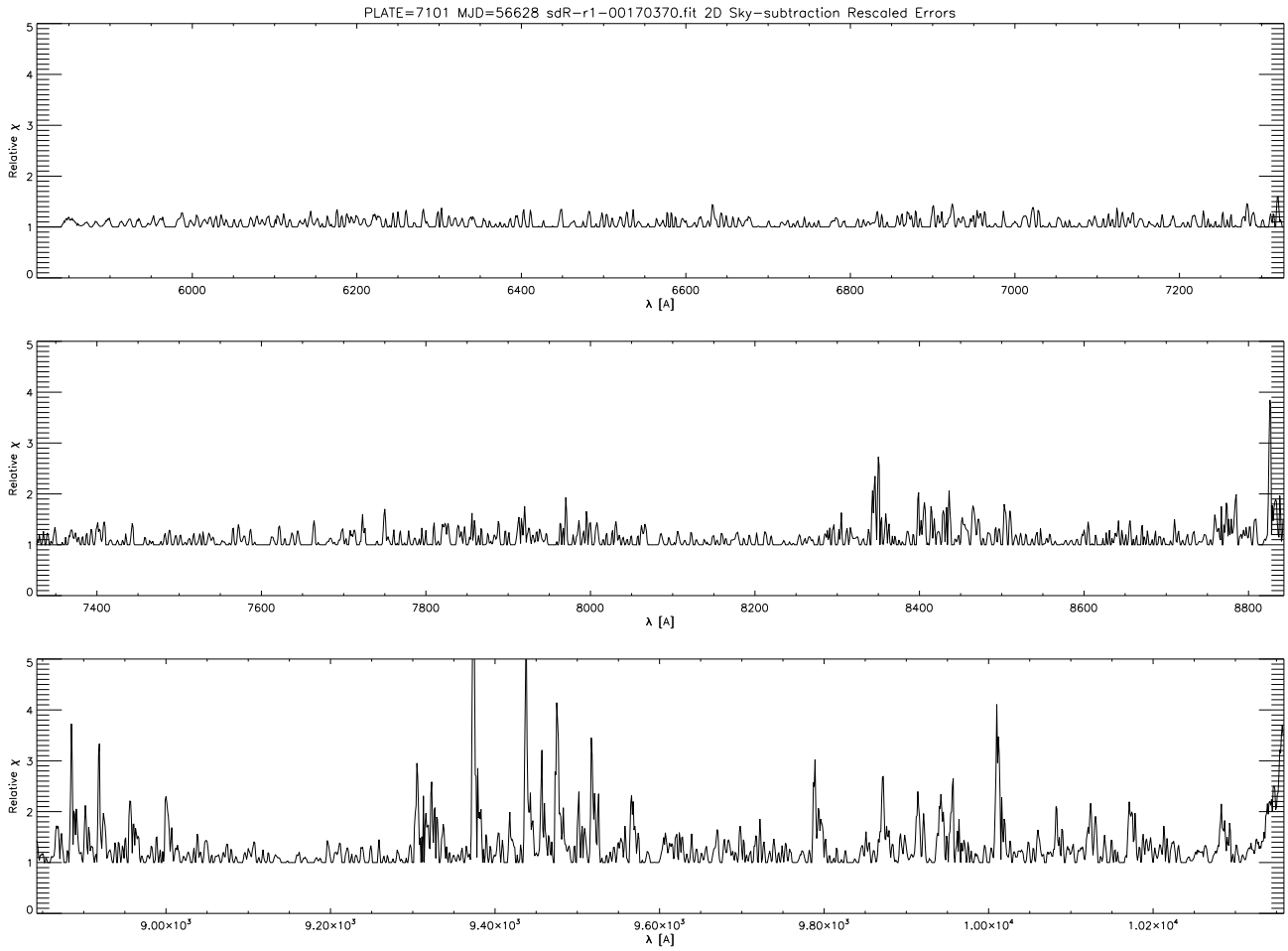


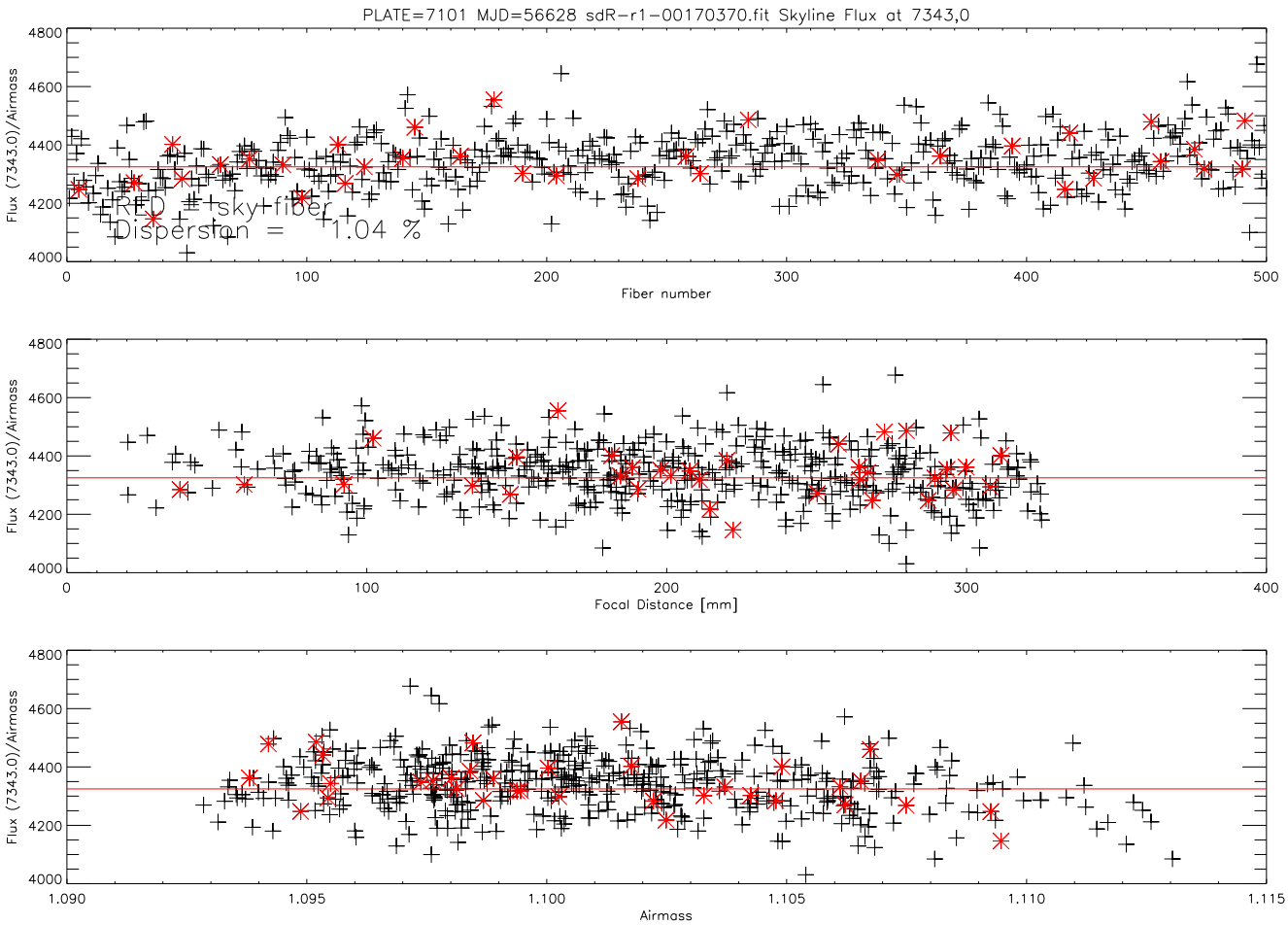

PLATE=7101 MJD=56628 sdR-r1-00170370.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

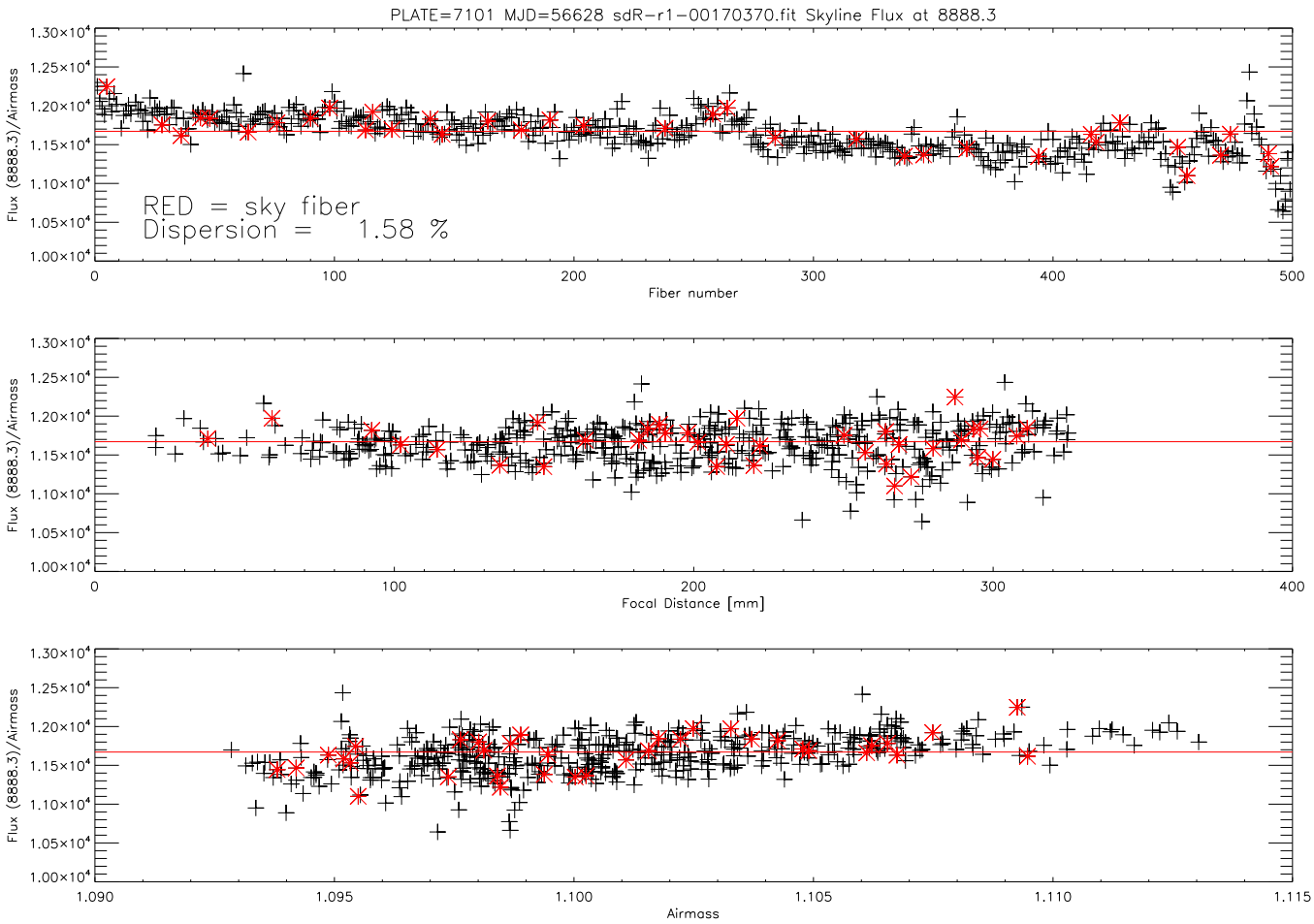

PLATE=7101 MJD=56628 sdR-r1-00170370.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]


PLATE=7101 MJD=56628 sdR-r1-00170370.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

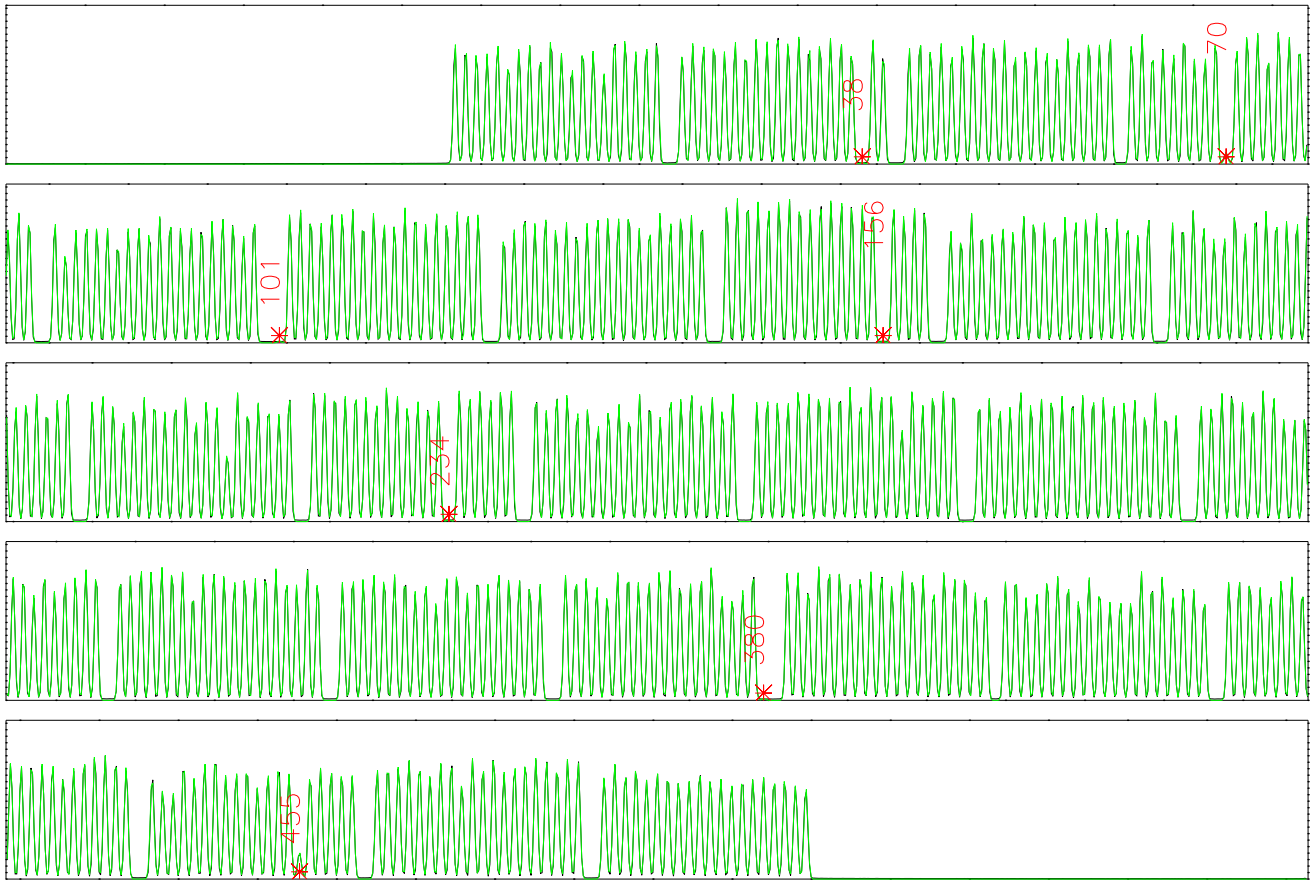
Number of sky fibers = 36

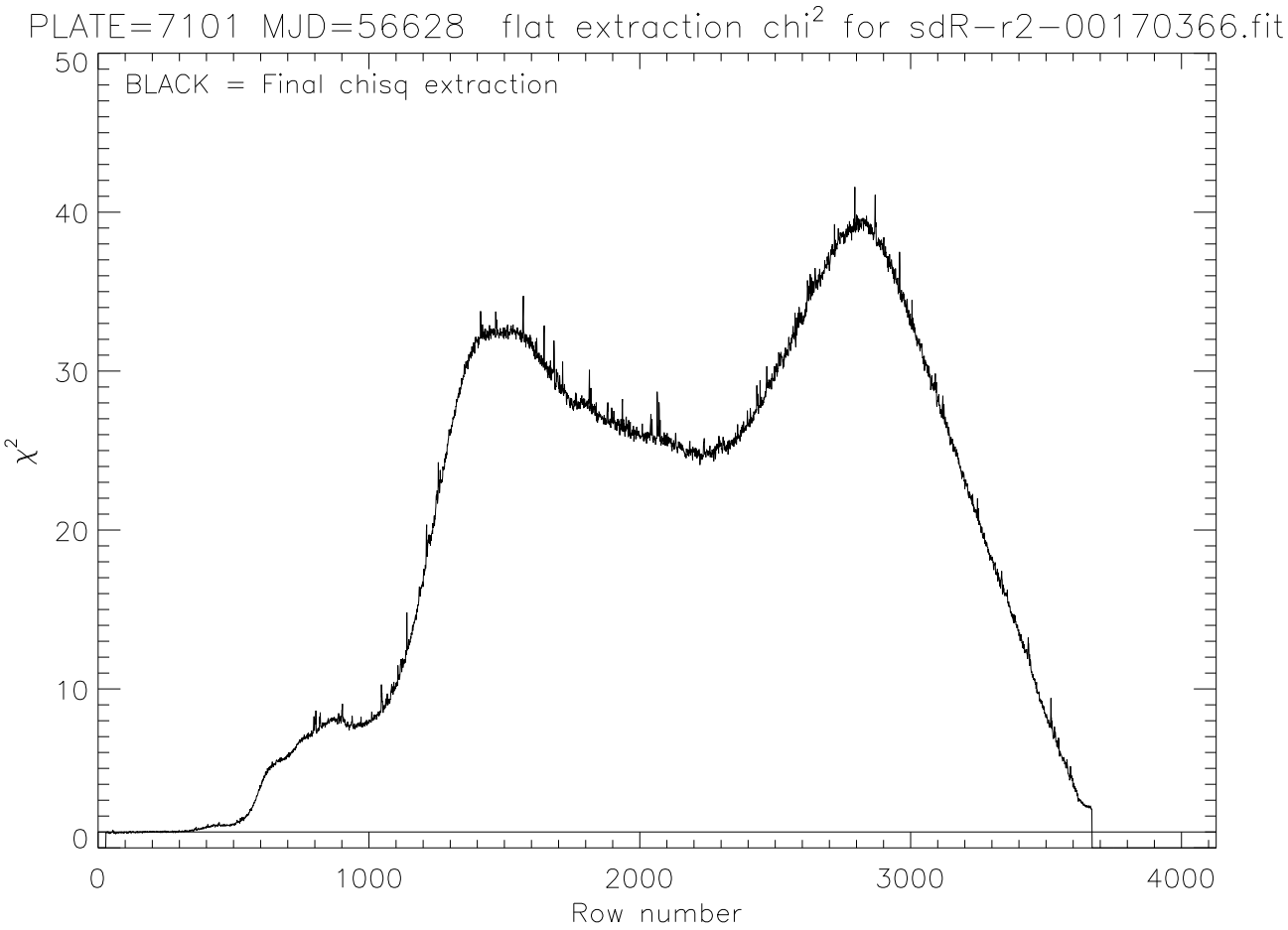


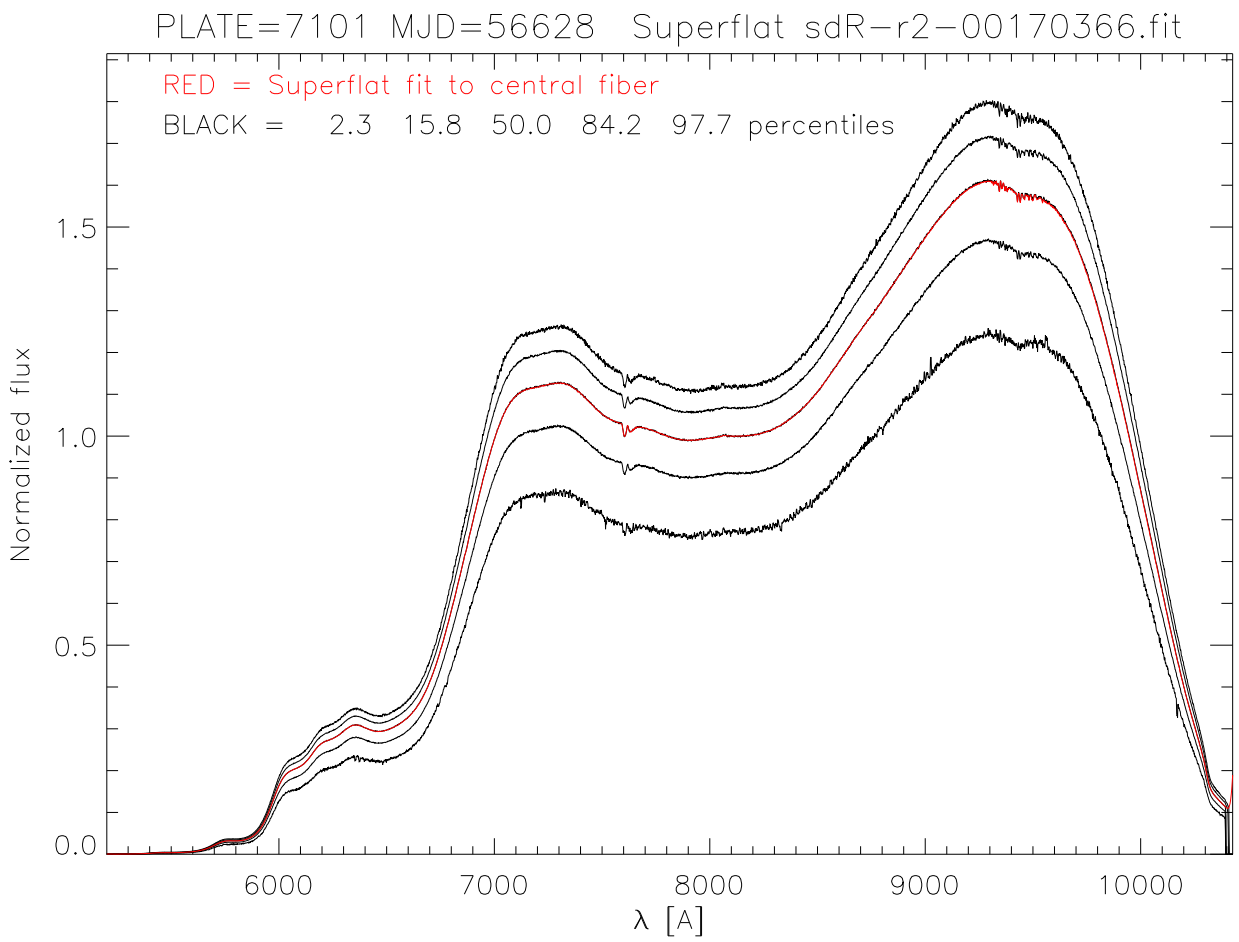

PLATE=7101 MJD=56628 sdR-r1-00170370.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED sky+fiber
Dispersion = 1.04 %
Focal Distance [mm]
Airmass

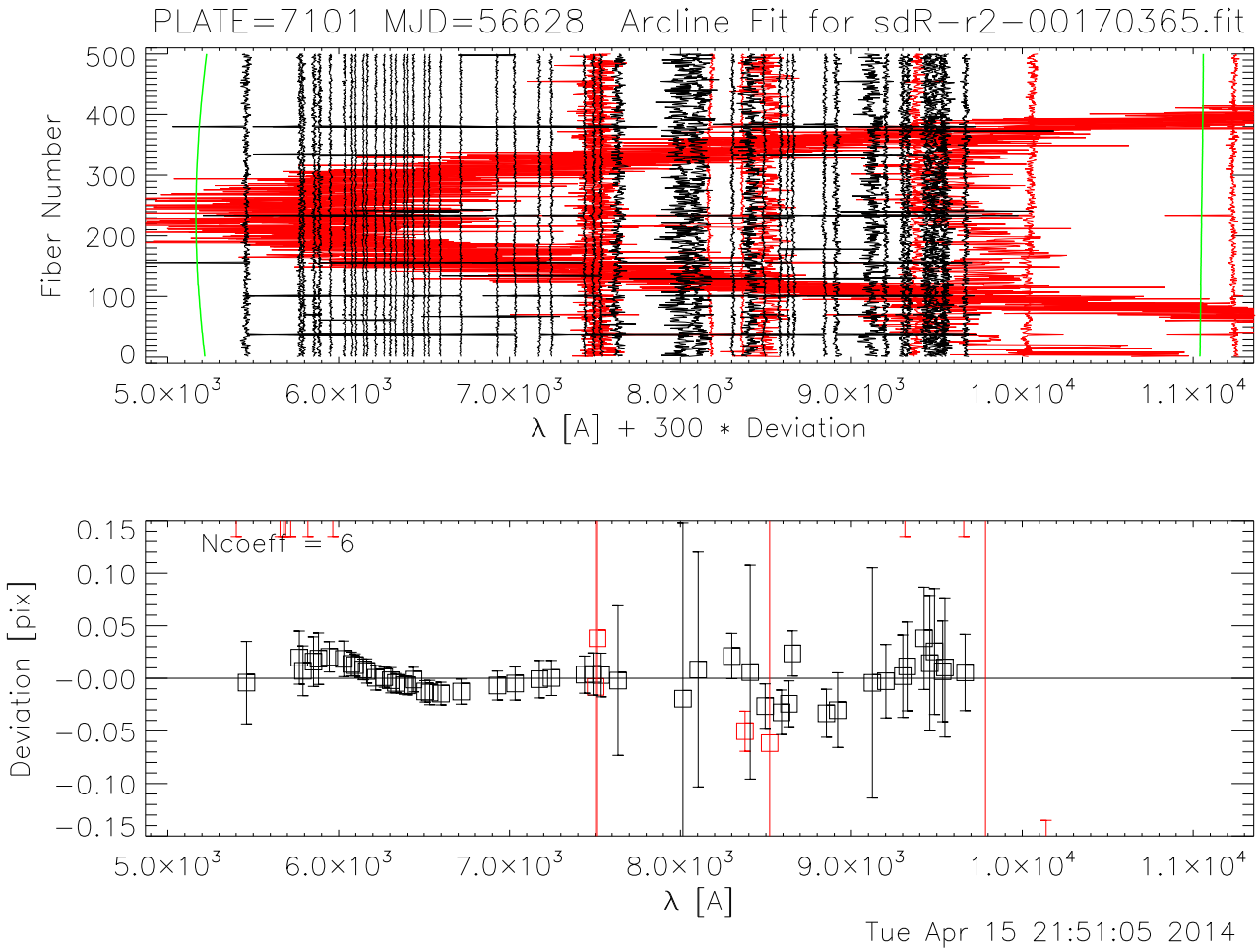

PLATE=7101 MJD=56628 sdR-r1-00170370.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
1.30×10^4
1.25×10^4
1.20×10^4
1.15×10^4
1.10×10^4
1.05×10^4
1.00×10^4
RED = sky fiber
Dispersion = 1.58 %
0
100
200
300
400
500
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
1.090
1.095
1.100
1.105
1.110
1.115
Airmass

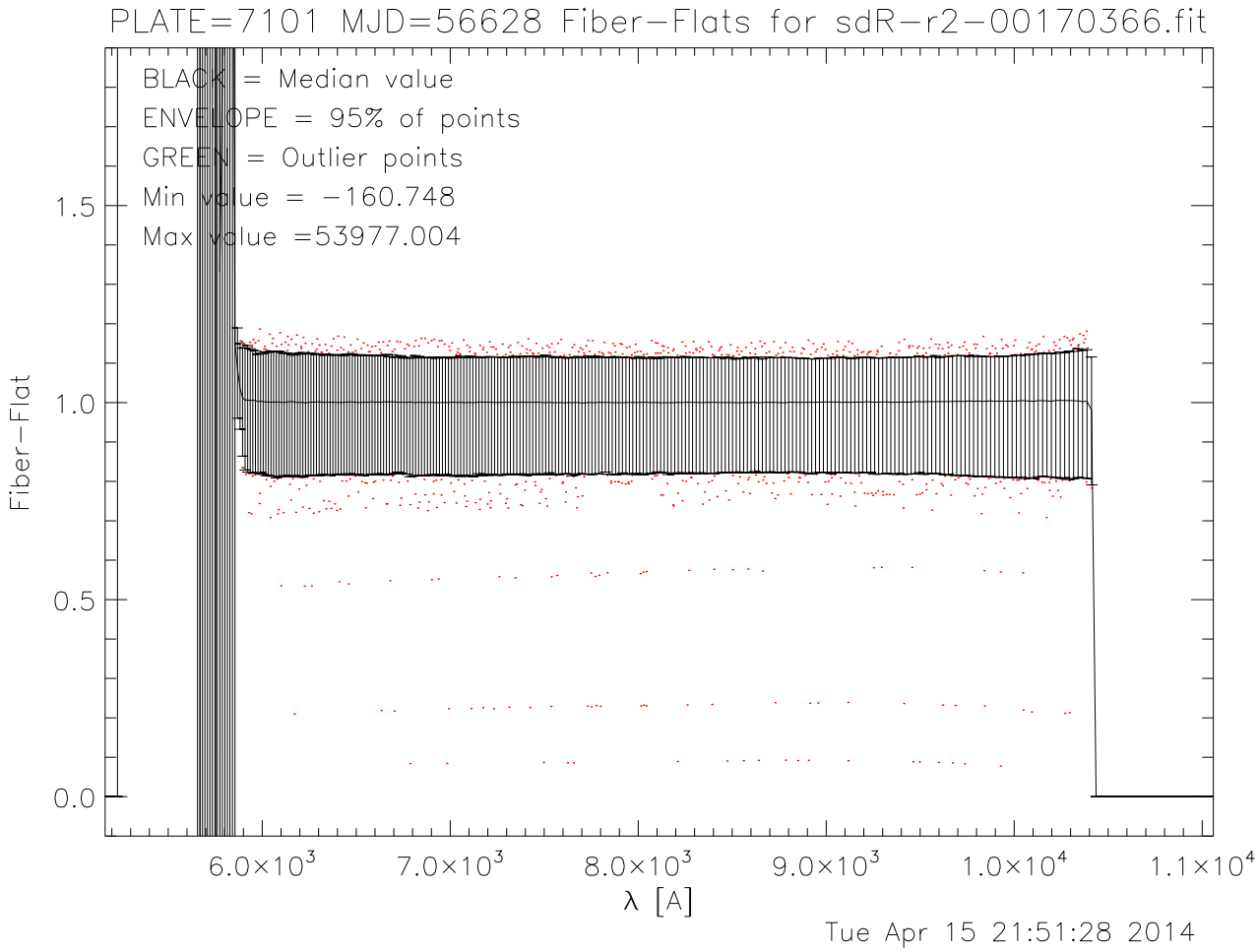
PLATE=7101 MJD=56628 Traces sdR-r2-00170366.fit

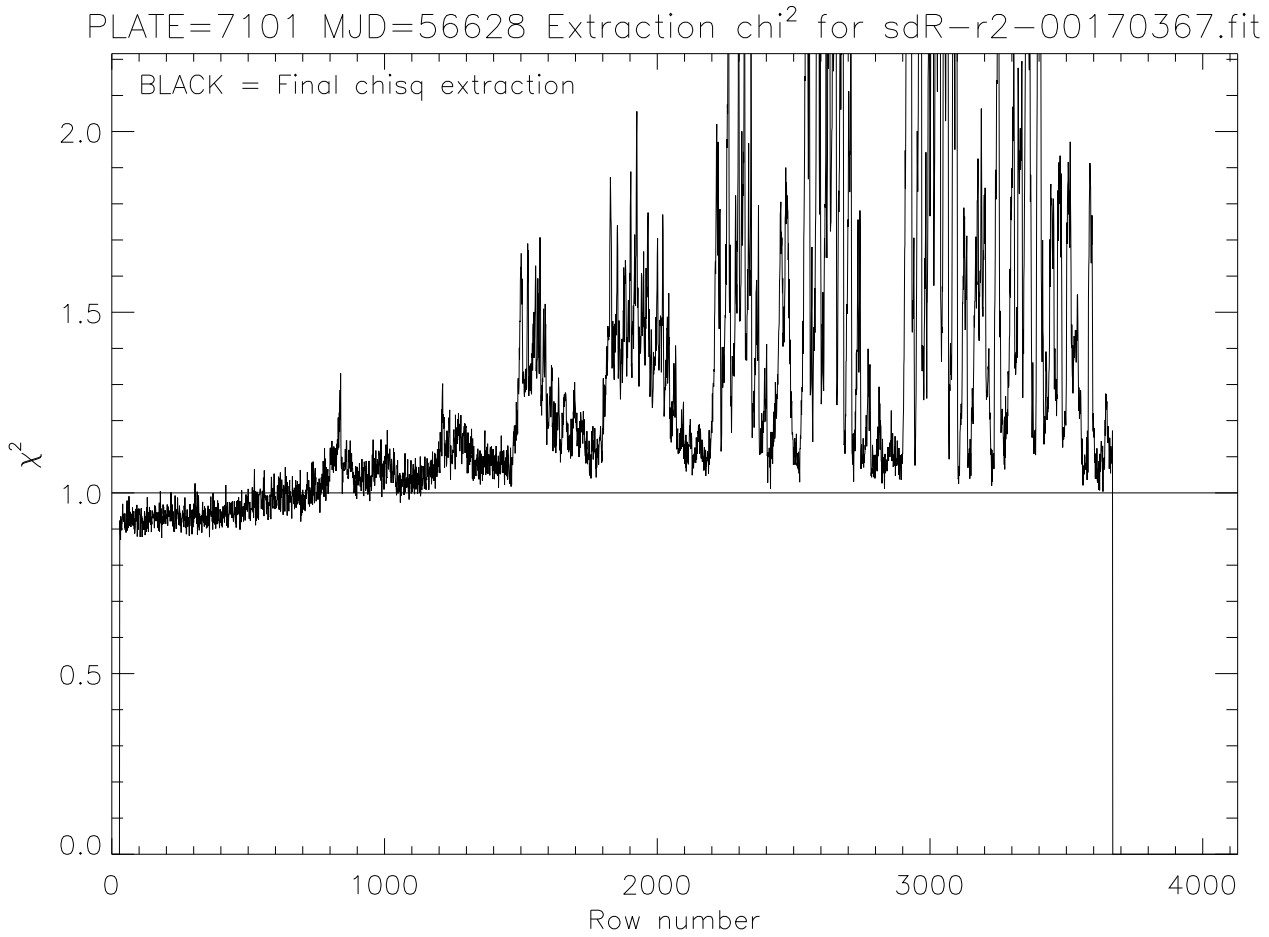


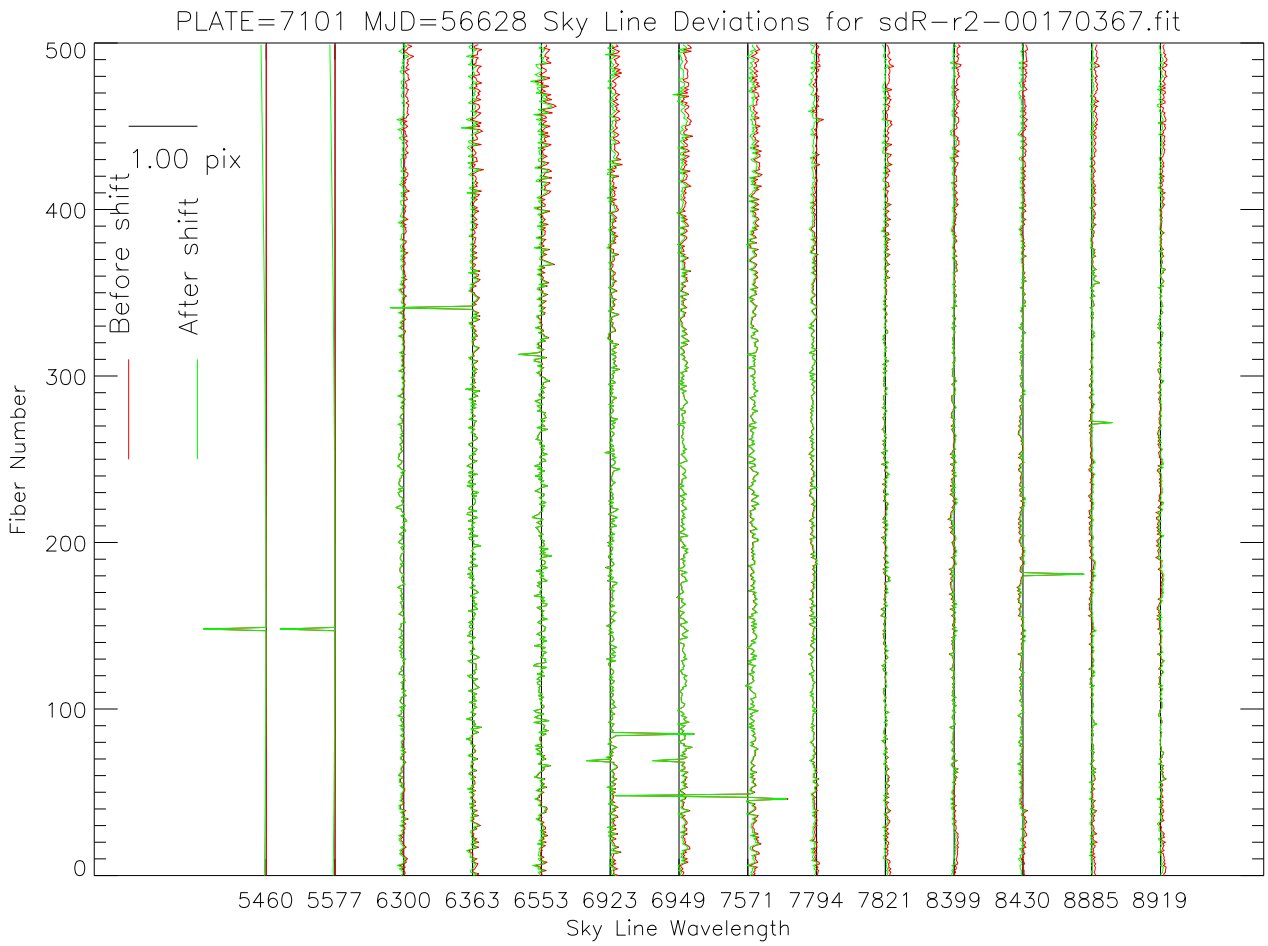

PLATE=7101 MJD=56628 flat extraction chi^2 for sdR−r2−00170366.fit
BLACK = Final chisq extraction
χ^2
Row number
0
10
20
30
40
50
0
1000
2000
3000
4000

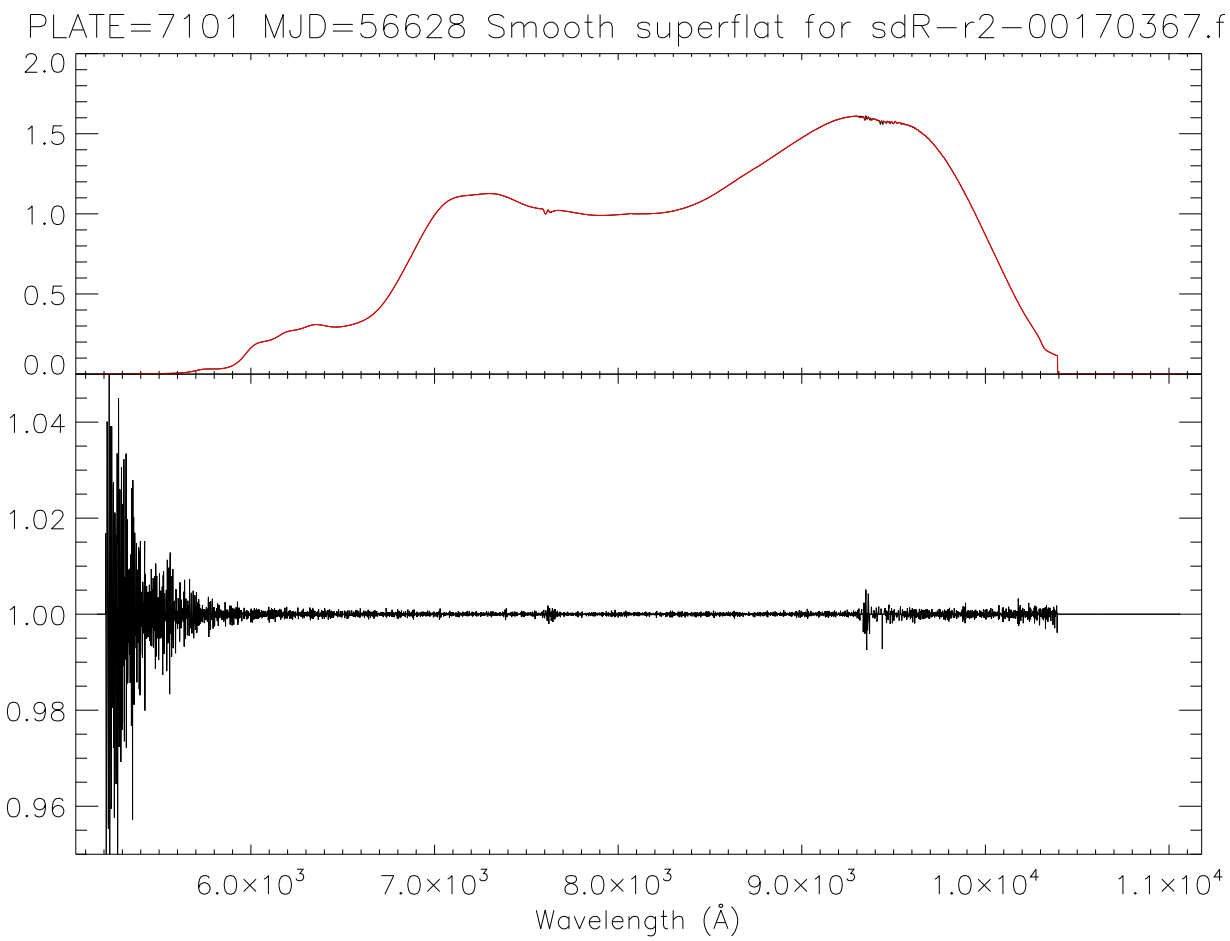

PLATE=7101 MJD=56628 Superflat sdR-r2-00170366.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
0.0
0.5
1.0
1.5
6000
7000
8000
9000
10000
λ [A]

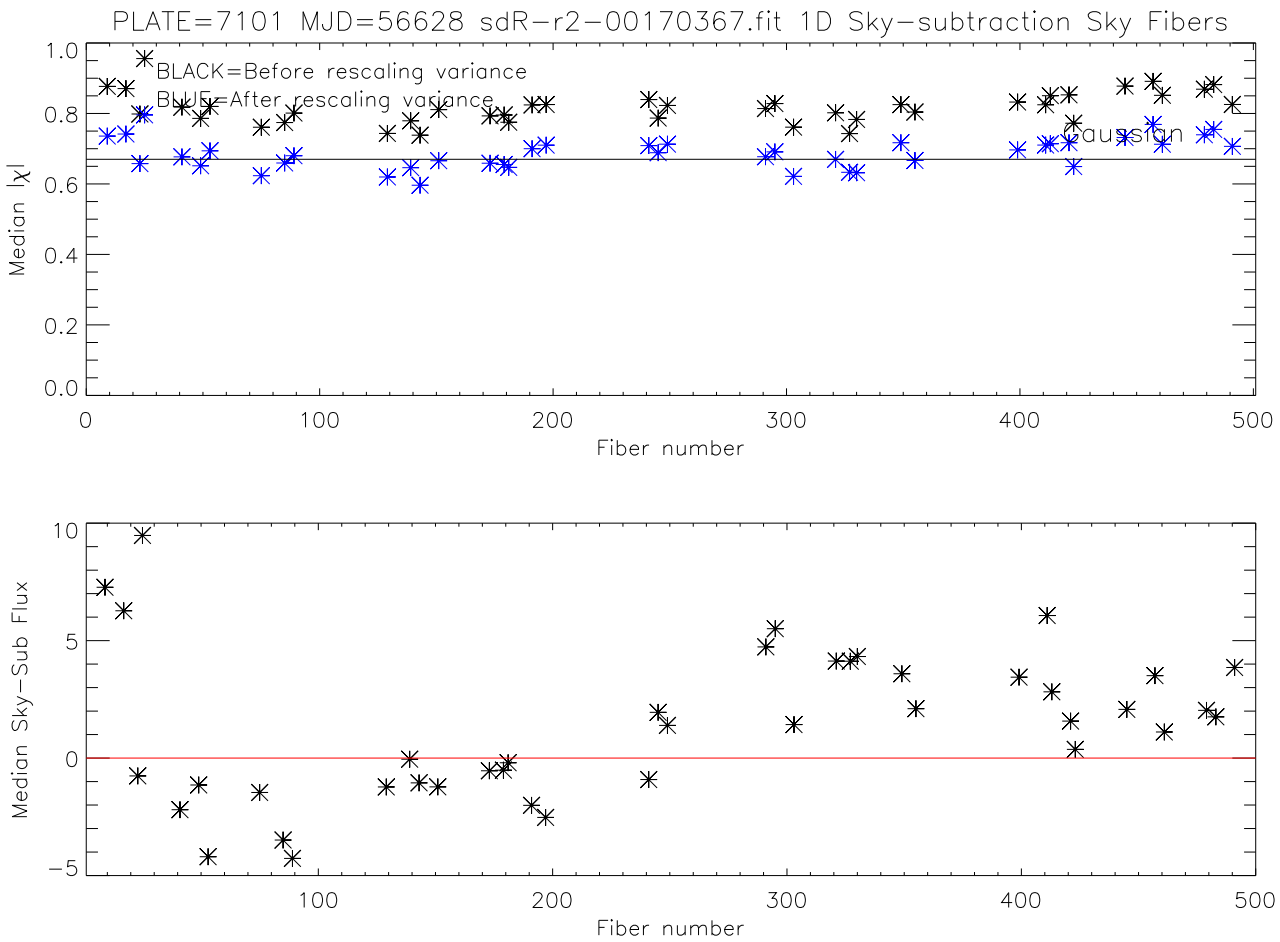

PLATE=7101 MJD=56628 Arcline Fit for sdR-r2-00170365.fit
Fiber Number
500
400
300
200
100
0
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A] + 300 * Deviation
Ncoeff = 6
Deviation [pix]
0.15
0.10
0.05
−0.00
−0.05
−0.10
−0.15
λ [A]
Tue Apr 15 21:51:05 2014


PLATE=7101 MJD=56628 Fiber−Flats for sdR−r2−00170366.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −160.748
Max value =53977.004
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Tue Apr 15 21:51:28 2014

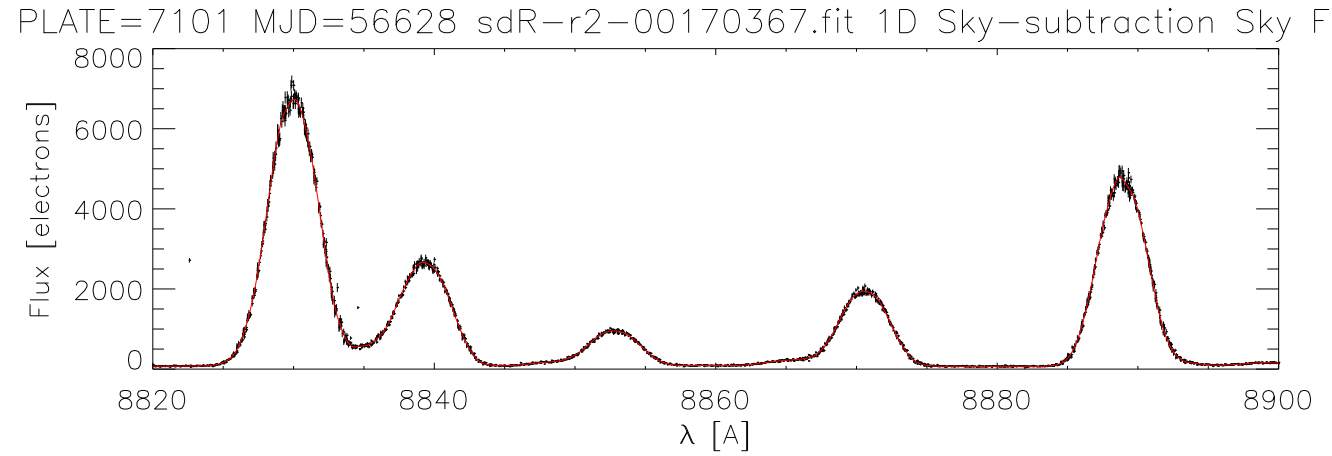

PLATE=7101 MJD=56628 Extraction chi^2 for sdR−r2−00170367.fit
BLACK = Final chisq extraction
2.0
1.5
1.0
0.5
0.0
χ^2
0
1000
2000
3000
4000
Row number

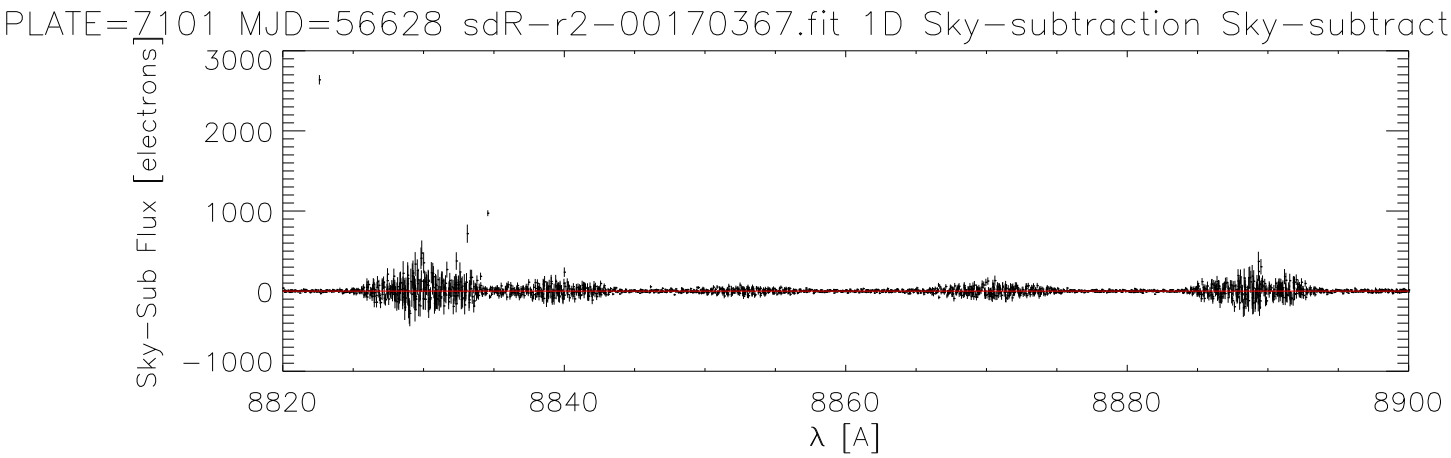

PLATE=7101 MJD=56628 Sky Line Deviations for sdR-r2-00170367.fit
Before shift
After shift
1.00 pix
Fiber Number
0
100
200
300
400
500
5460 5577 6300 6363 6553 6923 6949 7571 7794 7821 8399 8430 8885 8919
Sky Line Wavelength


PLATE=7101 MJD=56628 Smooth superflat for sdR-r2-00170367.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)

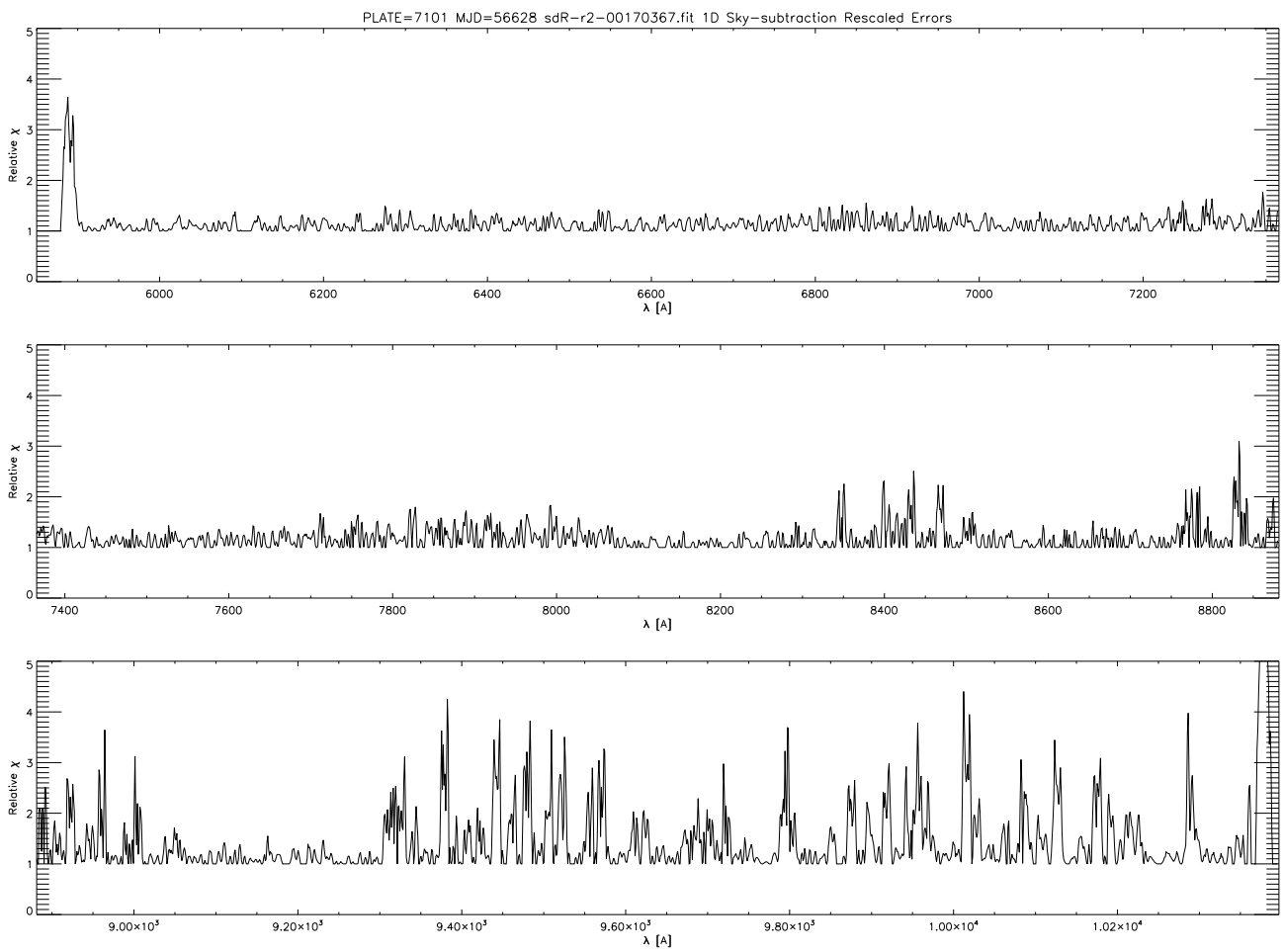

PLATE=7101 MJD=56628 sdR-r2-00170367.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number

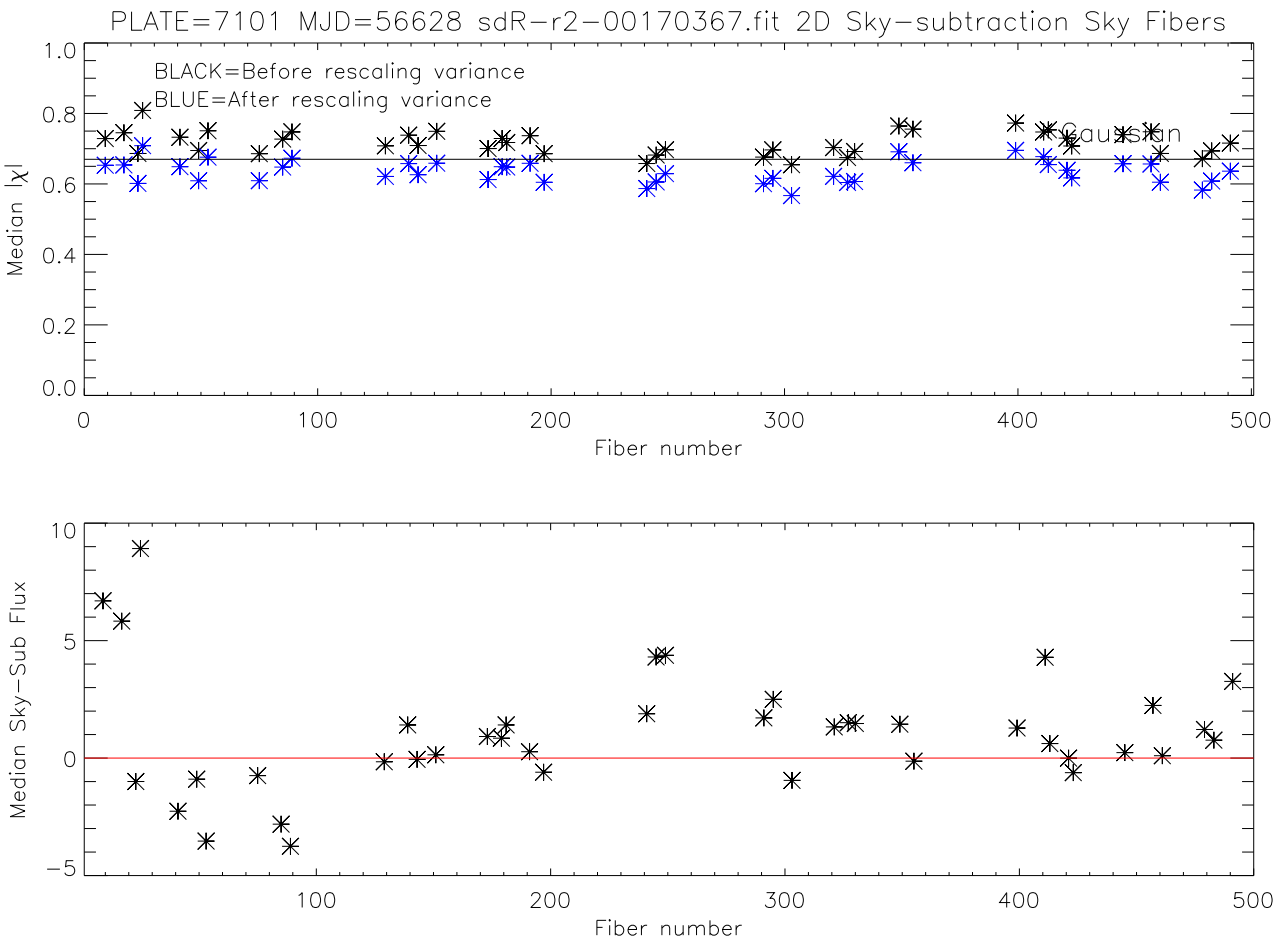
Median Sky-Sub Flux
Fiber number

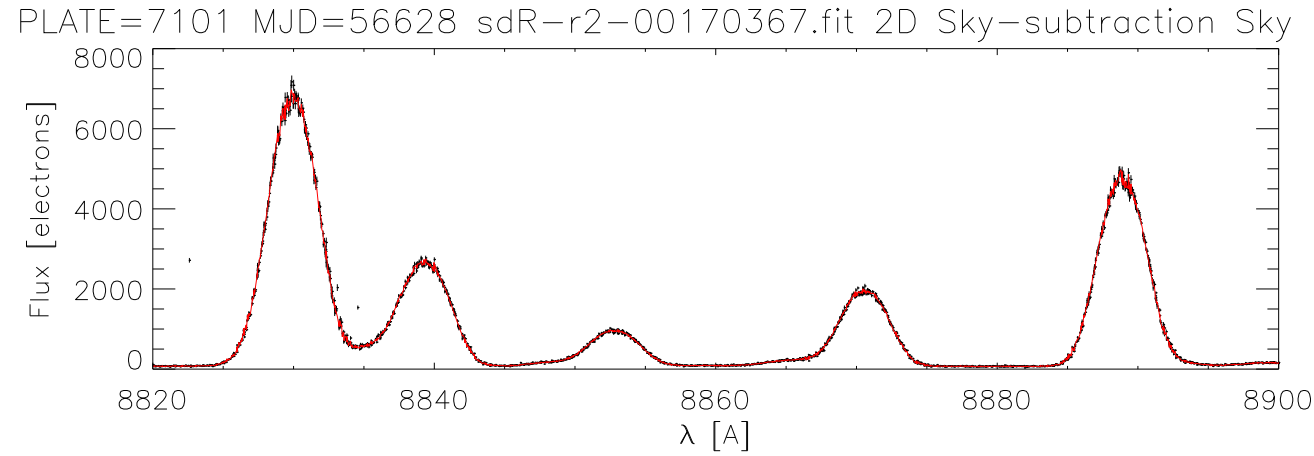

PLATE=7101 MJD=56628 sdR-r2-00170367.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

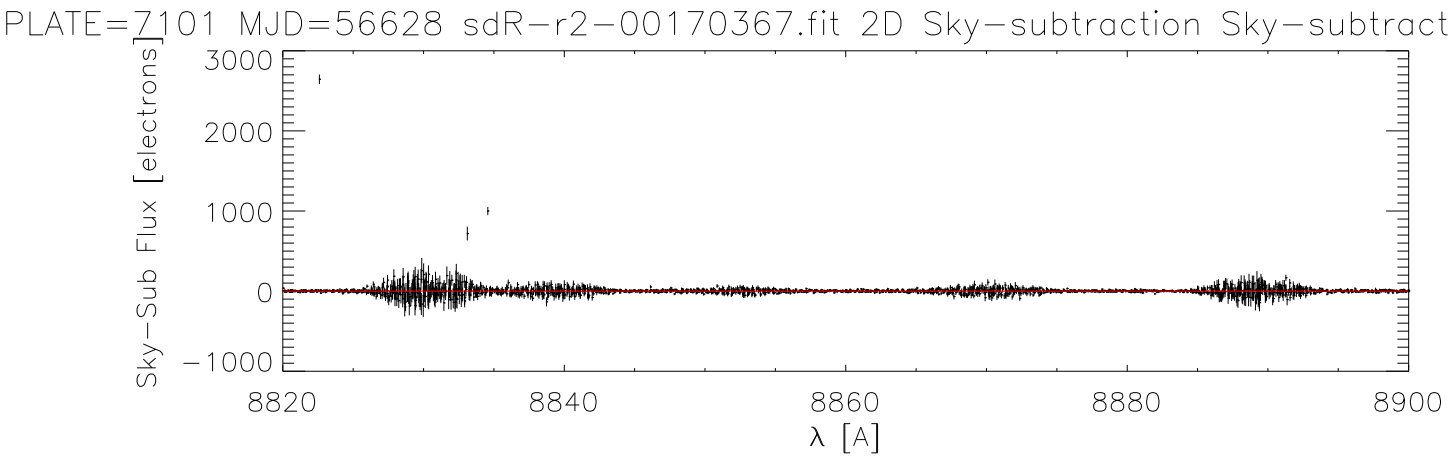

PLATE=7101 MJD=56628 sdR-r2-00170367.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 41

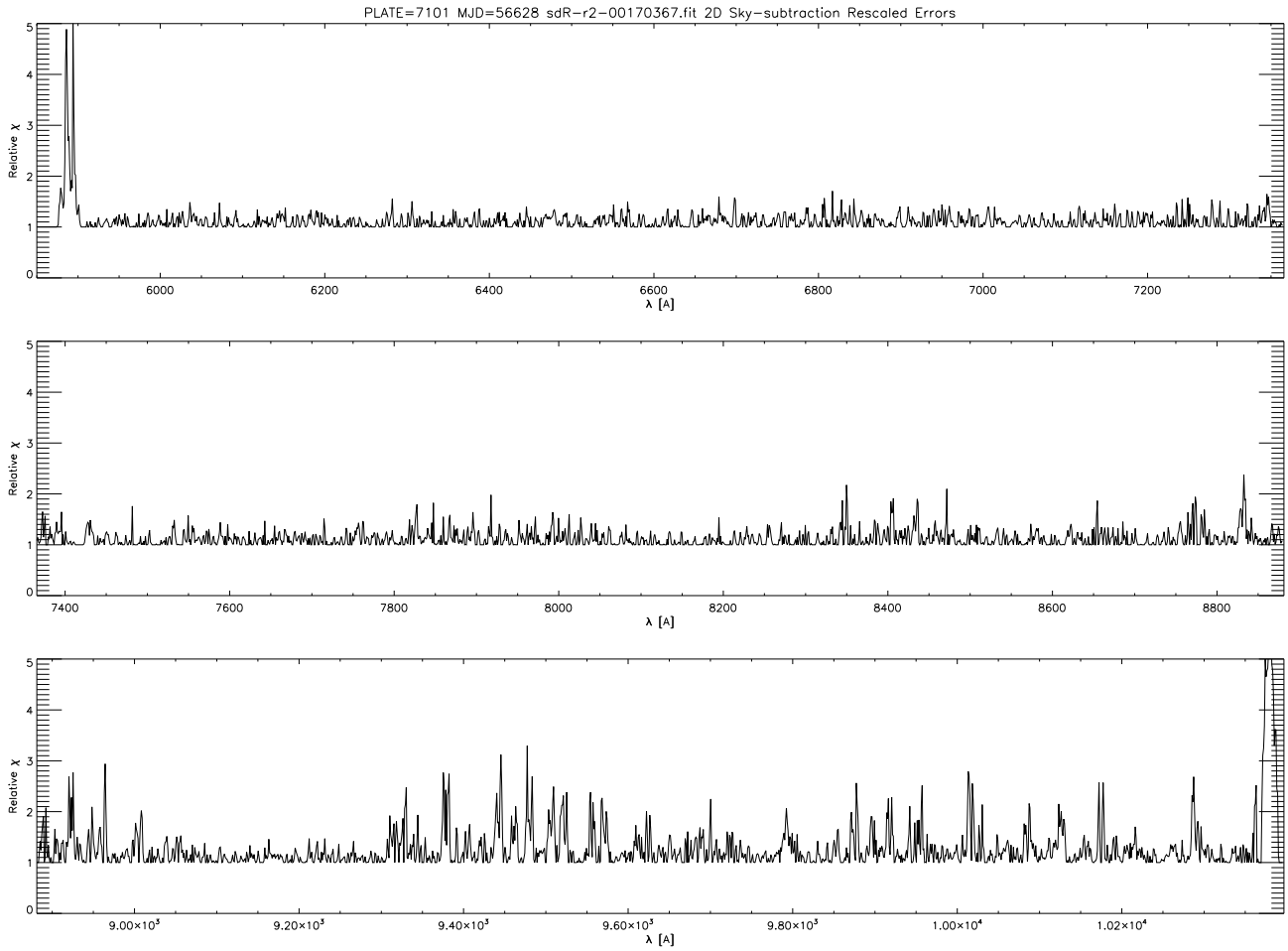


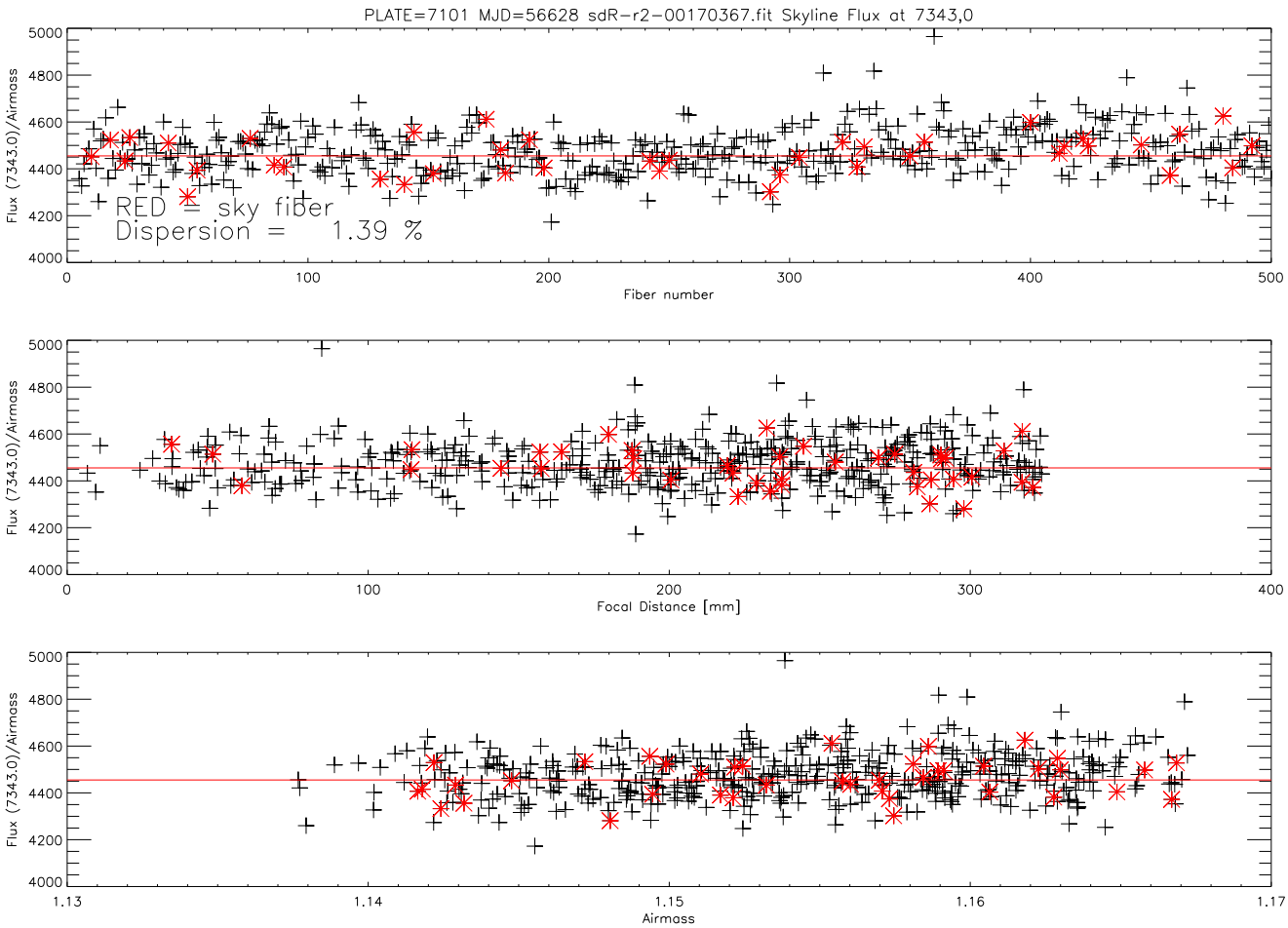

PLATE=7101 MJD=56628 sdR-r2-00170367.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

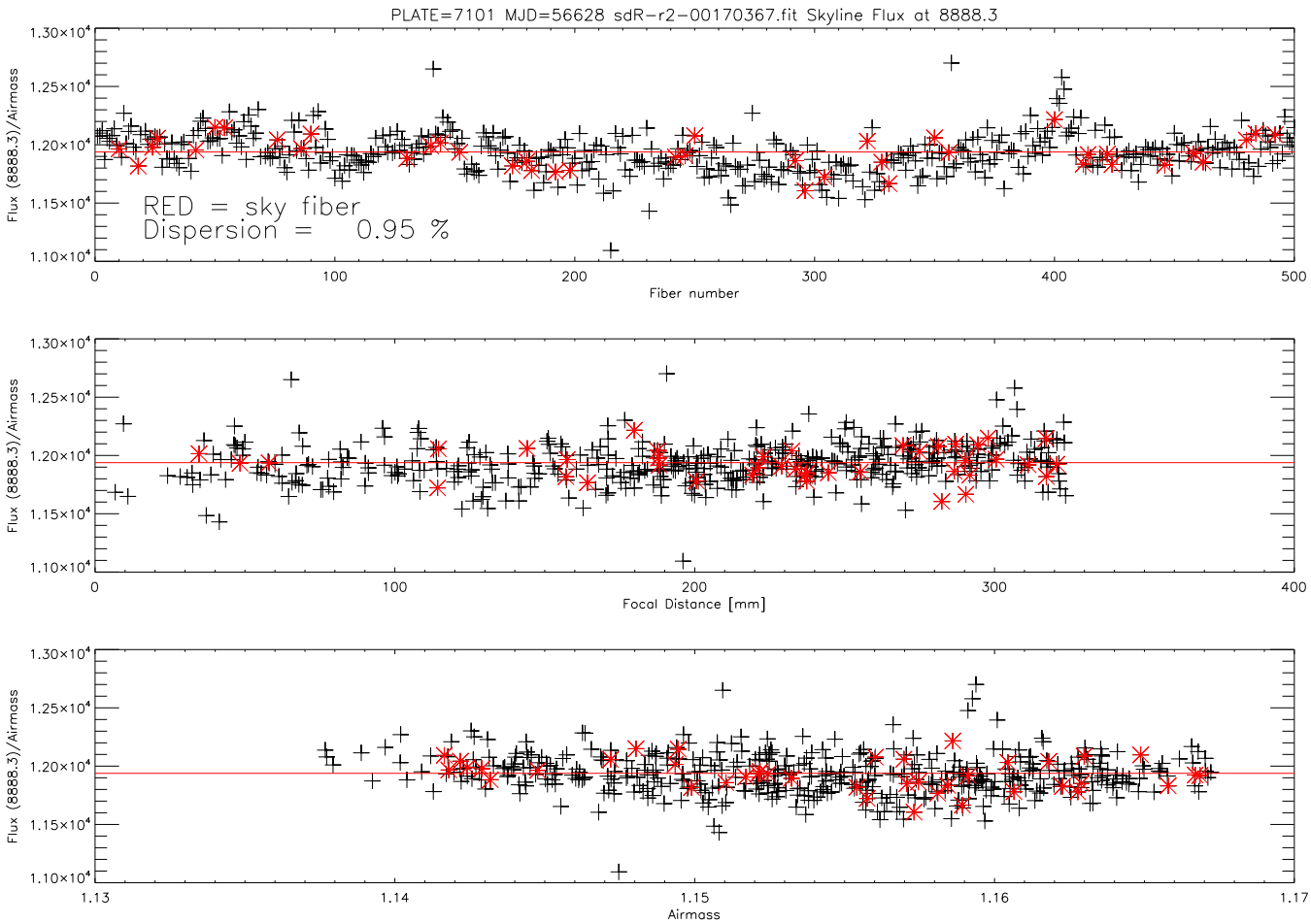

PLATE=7101 MJD=56628 sdR-r2-00170367.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

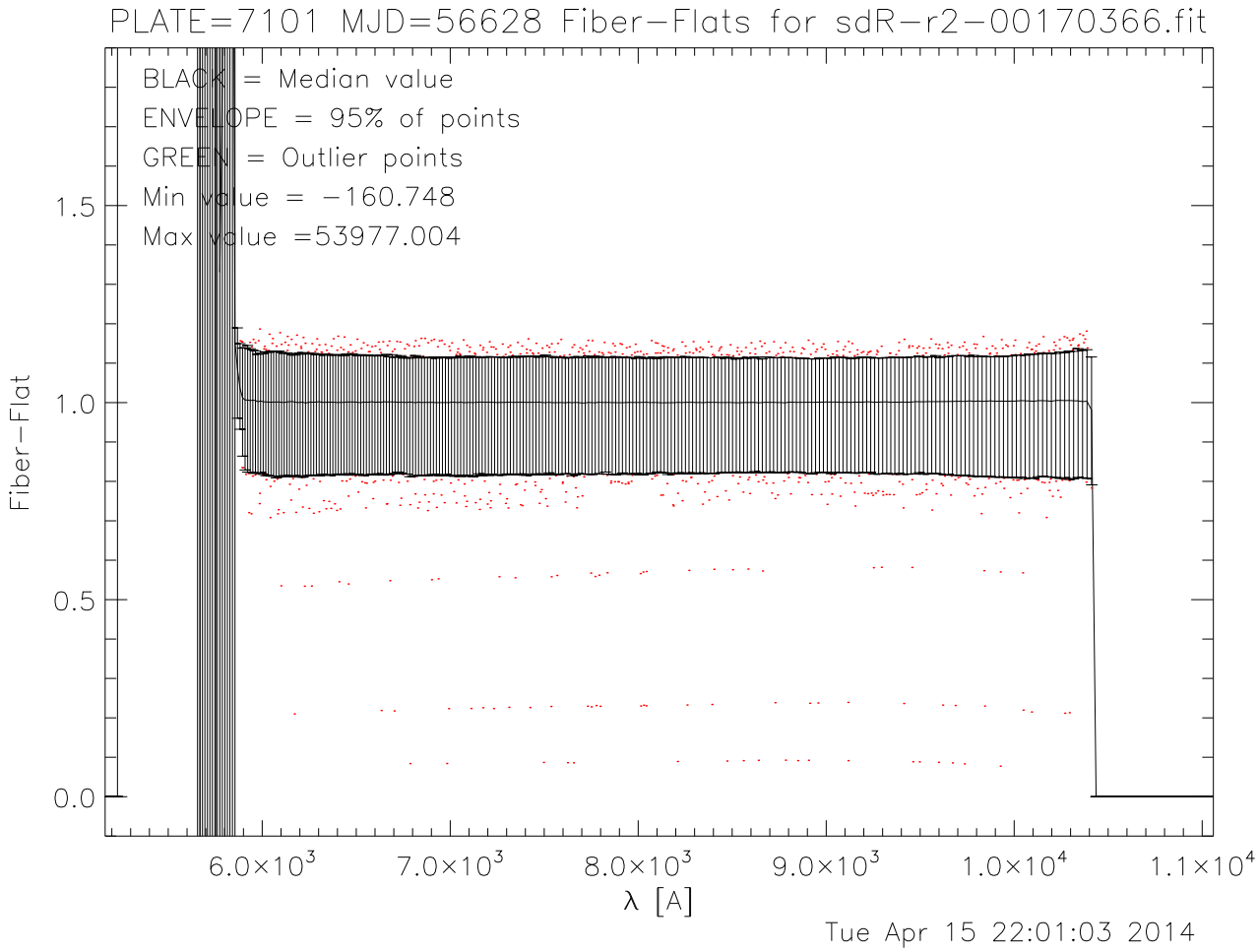

PLATE=7101 MJD=56628 sdR-r2-00170367.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

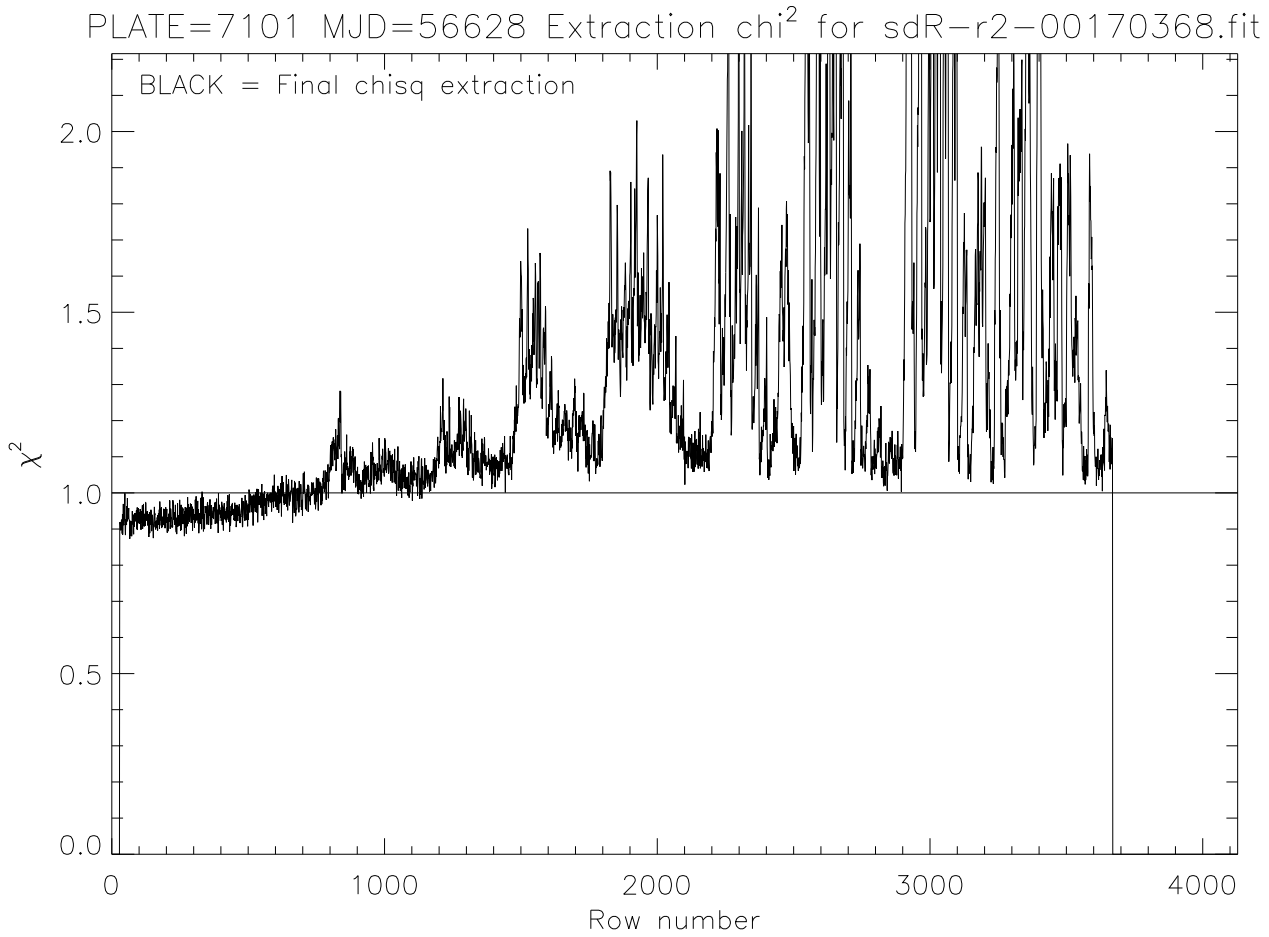
Number of sky fibers = 41

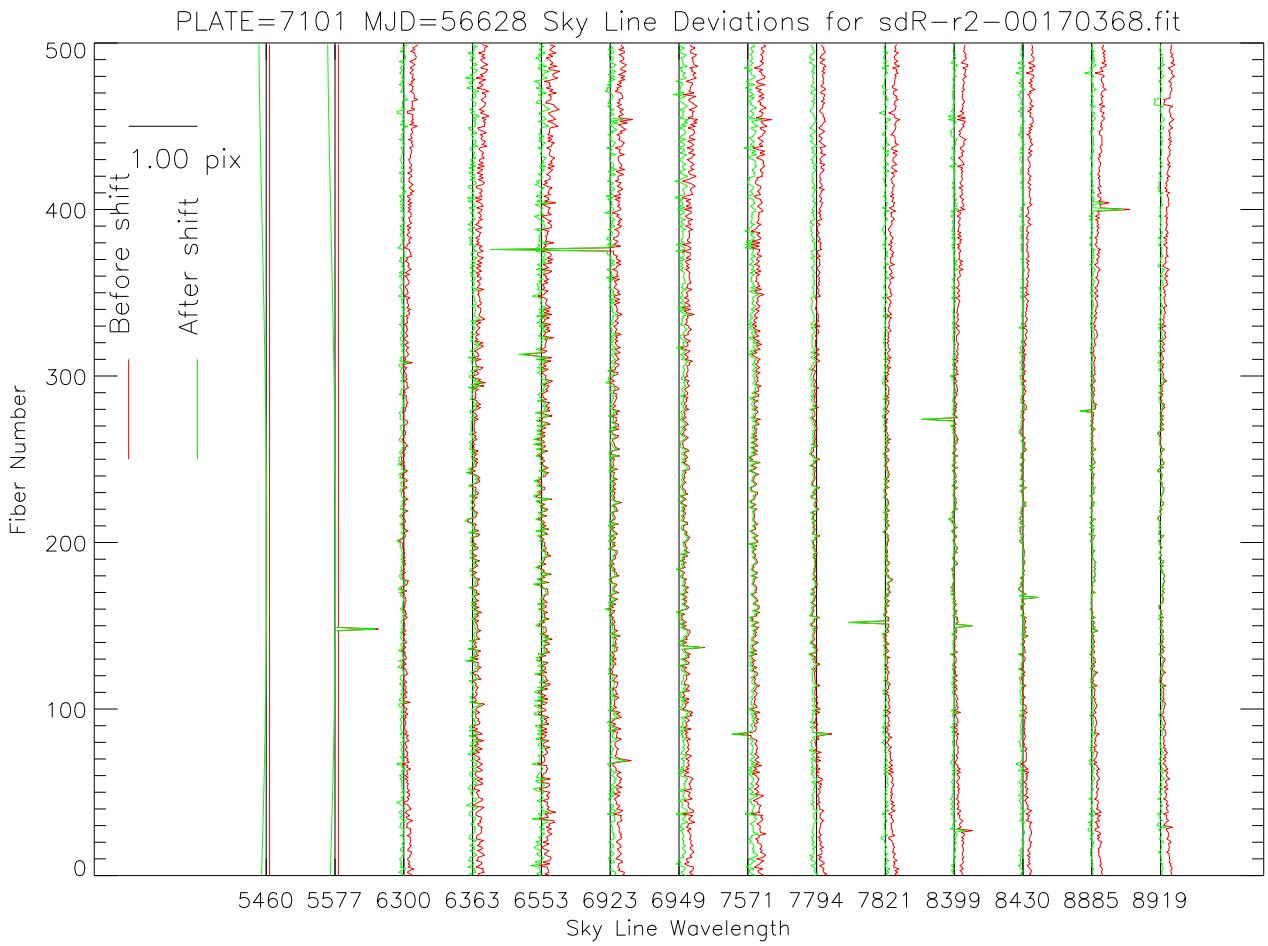


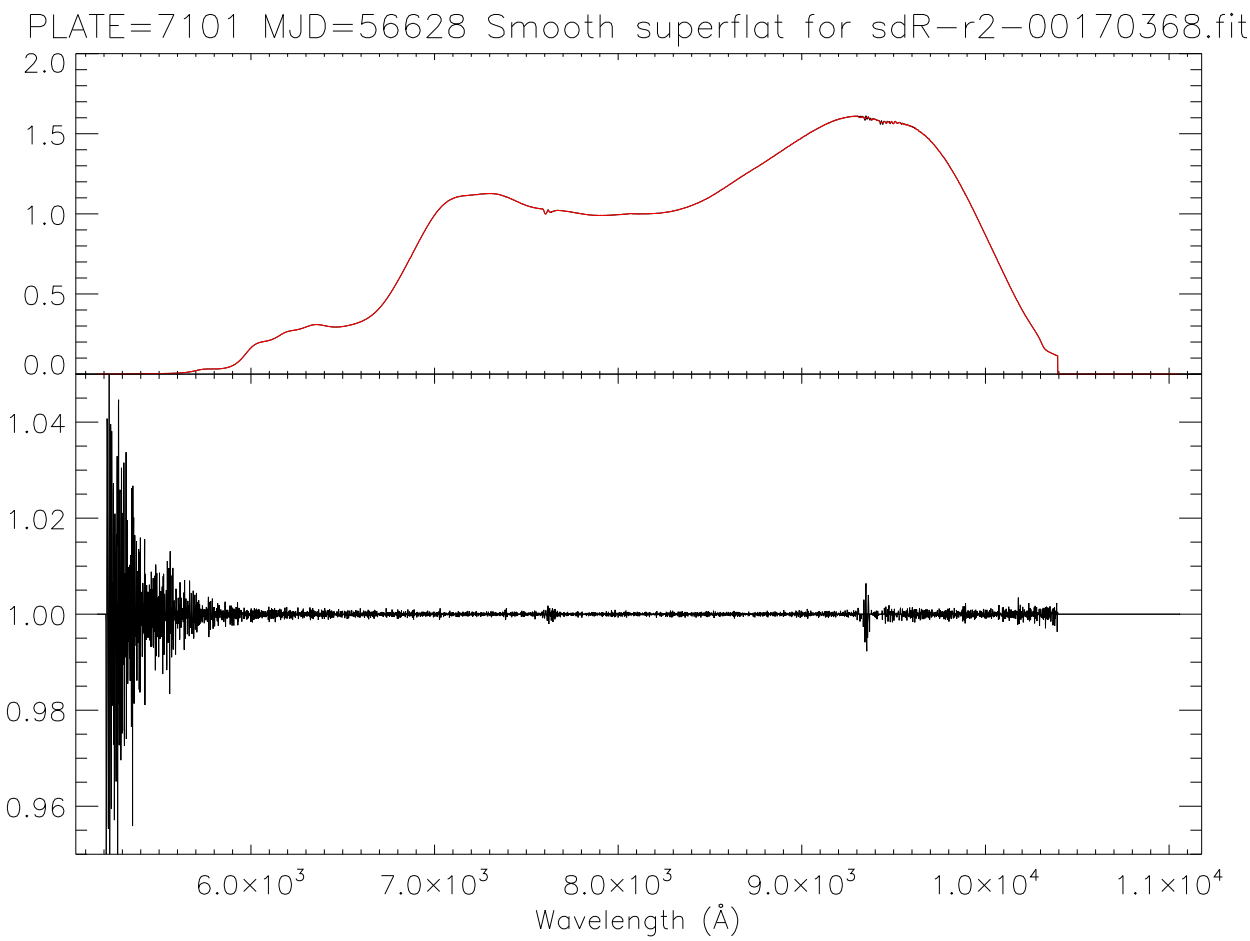

PLATE=7101 MJD=56628 sdR-r2-00170367.fit Skyline Flux at 7343.0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 1.39 %
Fiber number
Focal Distance [mm]
Airmass

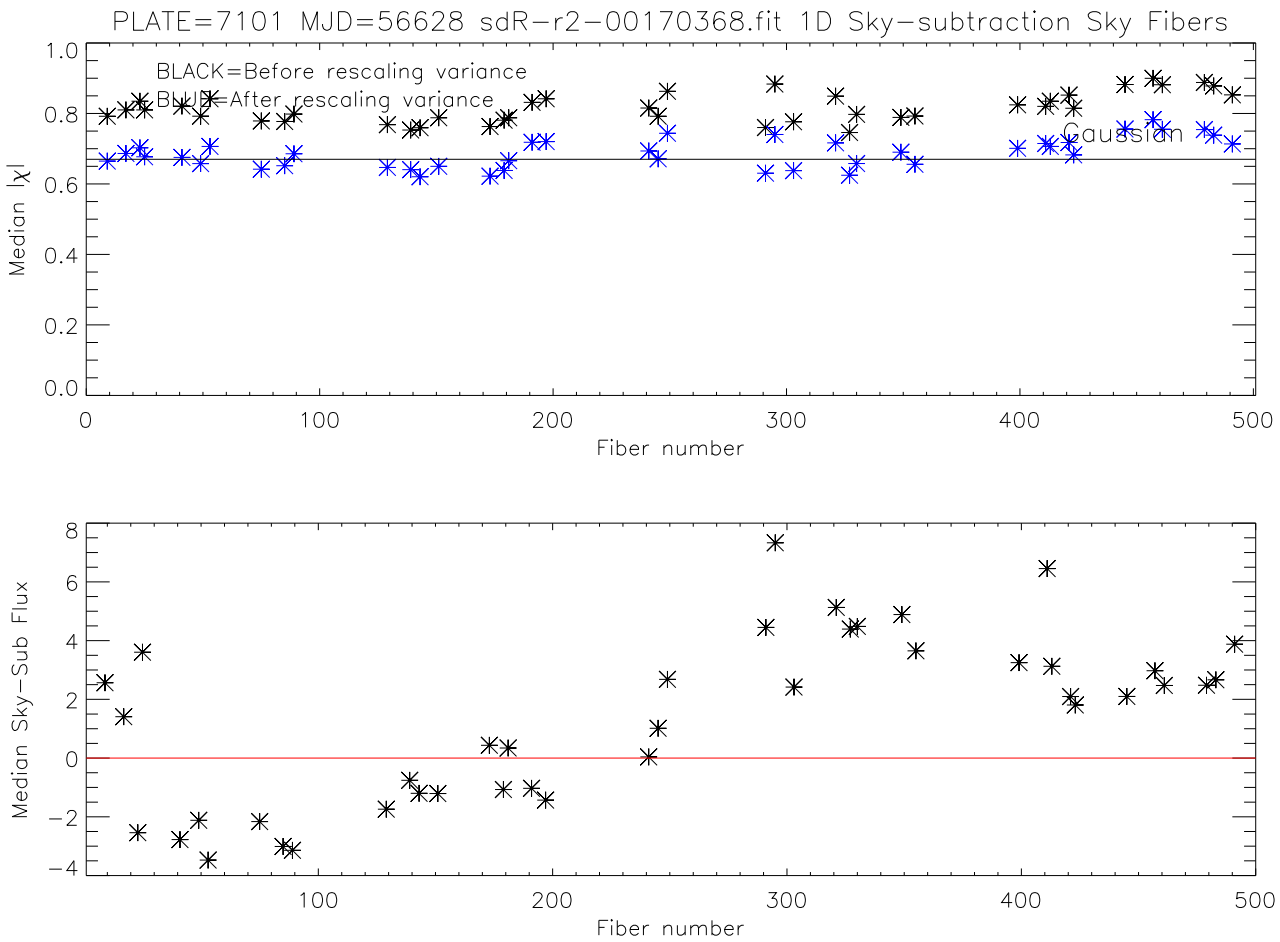

PLATE=7101 MJD=56628 sdR-r2-00170367.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 0.95 %
Fiber number
Focal Distance [mm]
Airmass

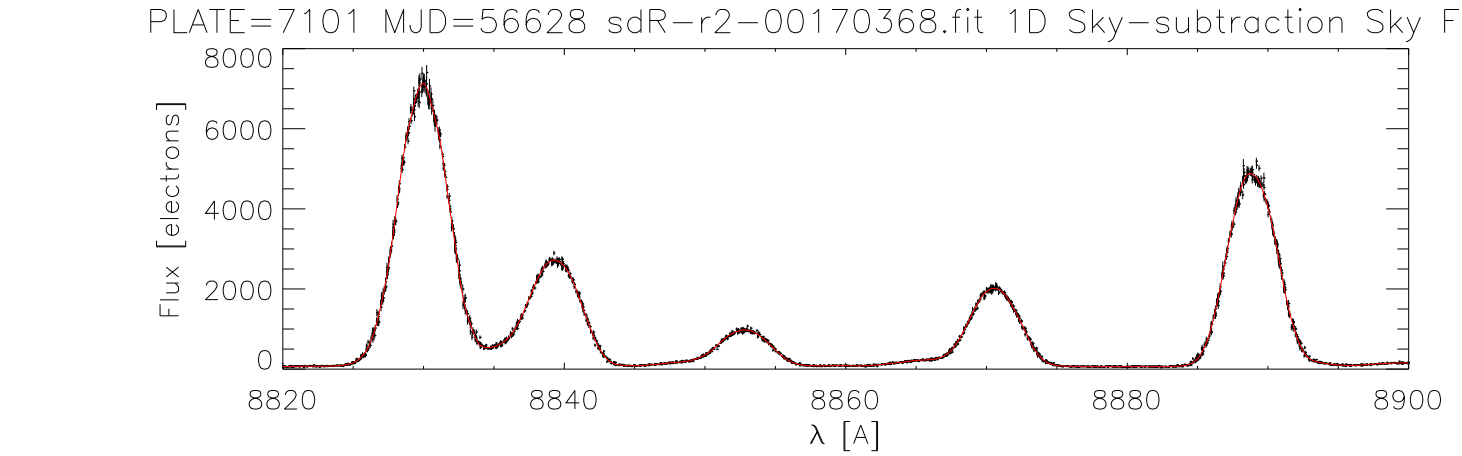

PLATE=7101 MJD=56628 Fiber−Flats for sdR−r2−00170366.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −160.748
Max value =53977.004
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Tue Apr 15 22:01:03 2014

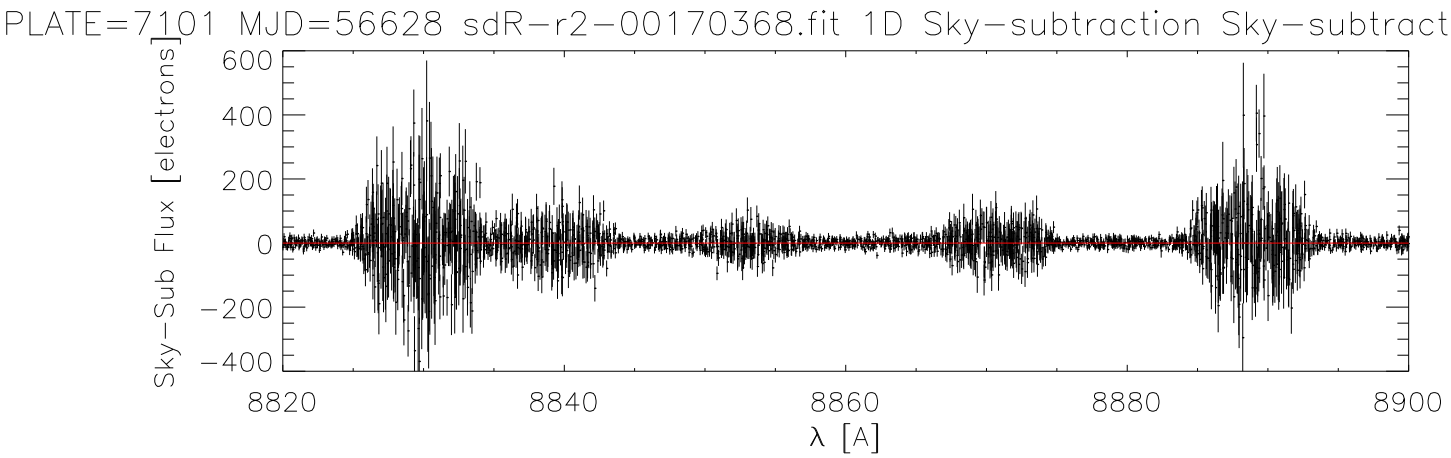

PLATE=7101 MJD=56628 Extraction chi^2 for sdR−r2−00170368.fit
BLACK = Final chisq extraction
2.0
1.5
1.0
0.5
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=7101 MJD=56628 Sky Line Deviations for sdR-r2-00170368.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

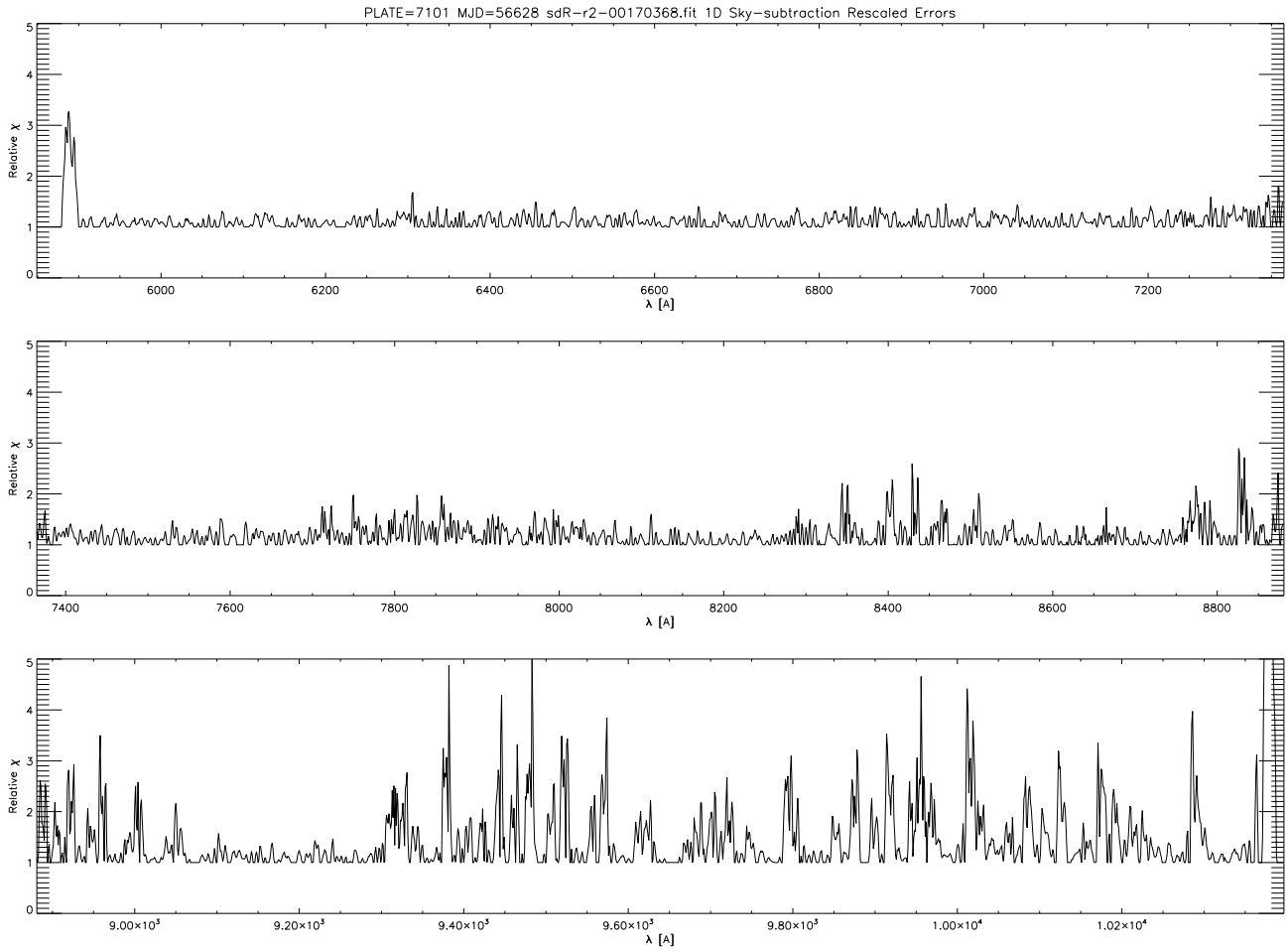

PLATE=7101 MJD=56628 Smooth superflat for sdR-r2-00170368.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

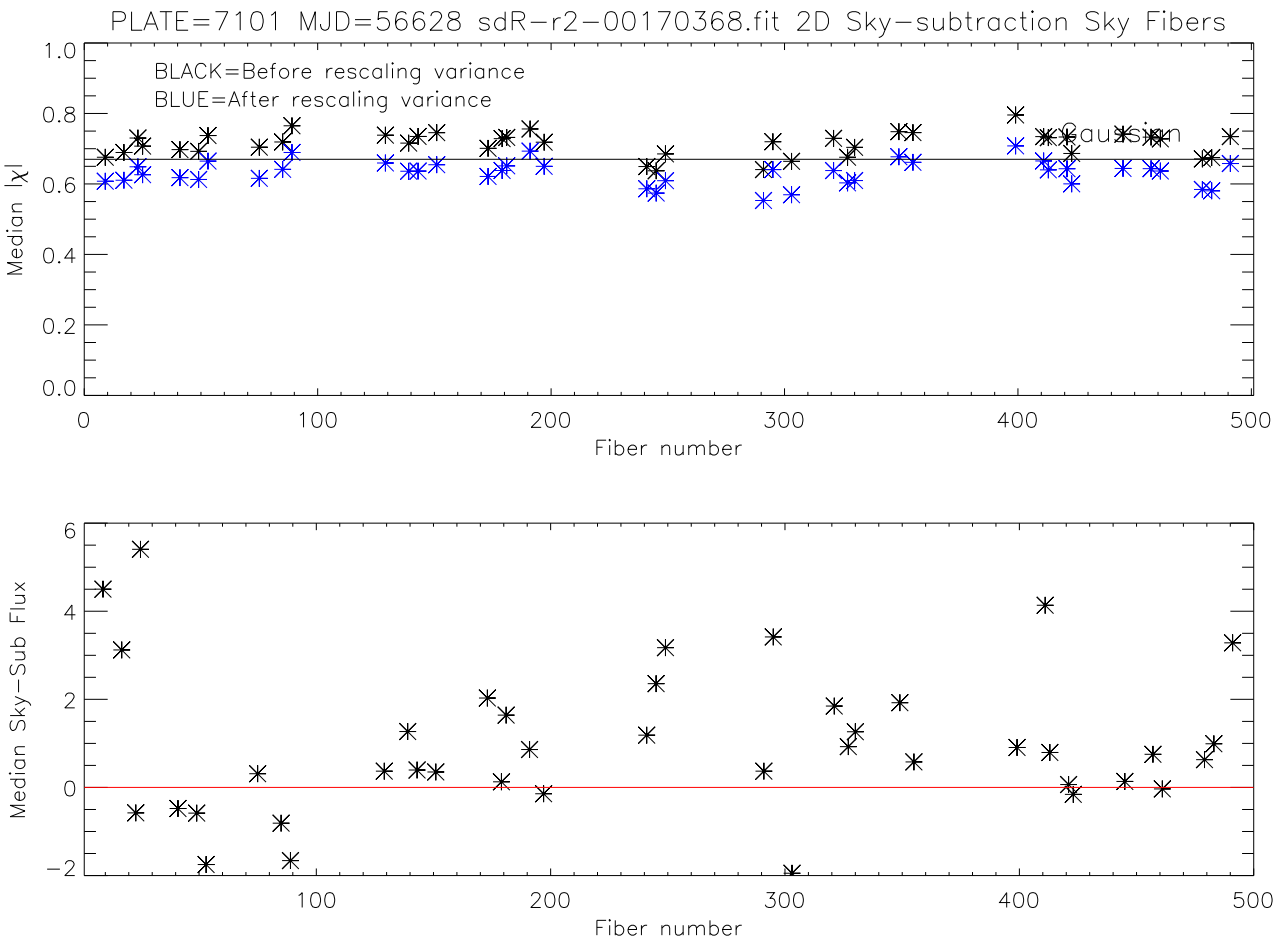

PLATE=7101 MJD=56628 sdR-r2-00170368.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

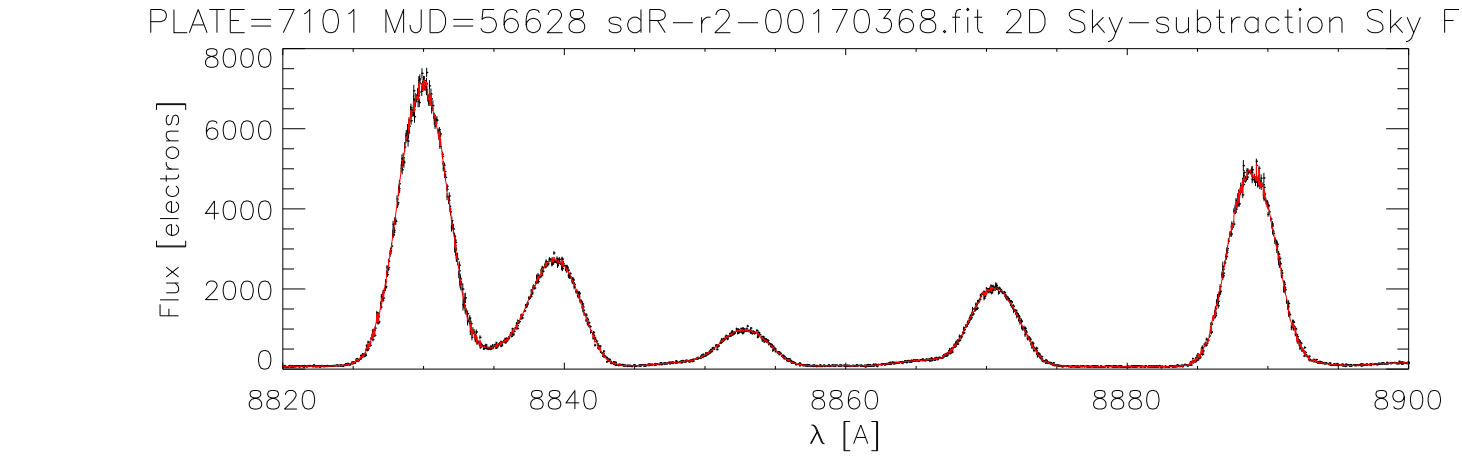

PLATE=7101 MJD=56628 sdR-r2-00170368.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

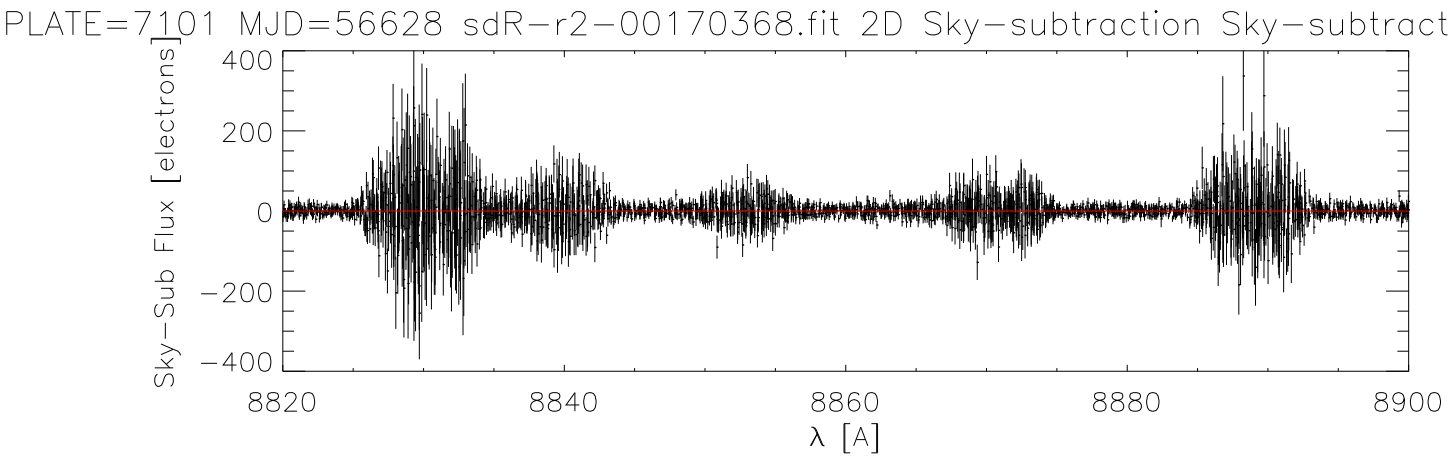

PLATE=7101 MJD=56628 sdR-r2-00170368.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 41

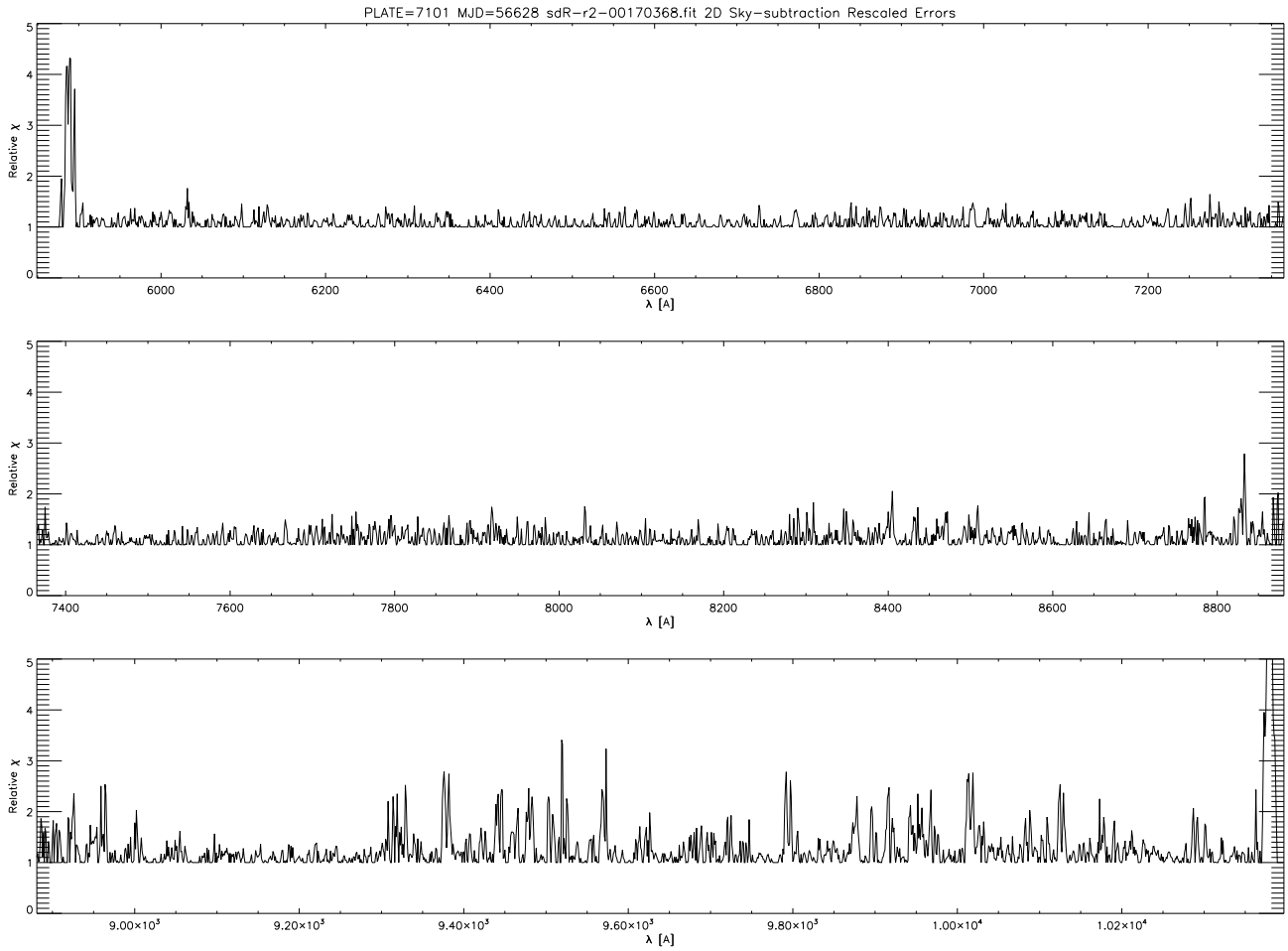


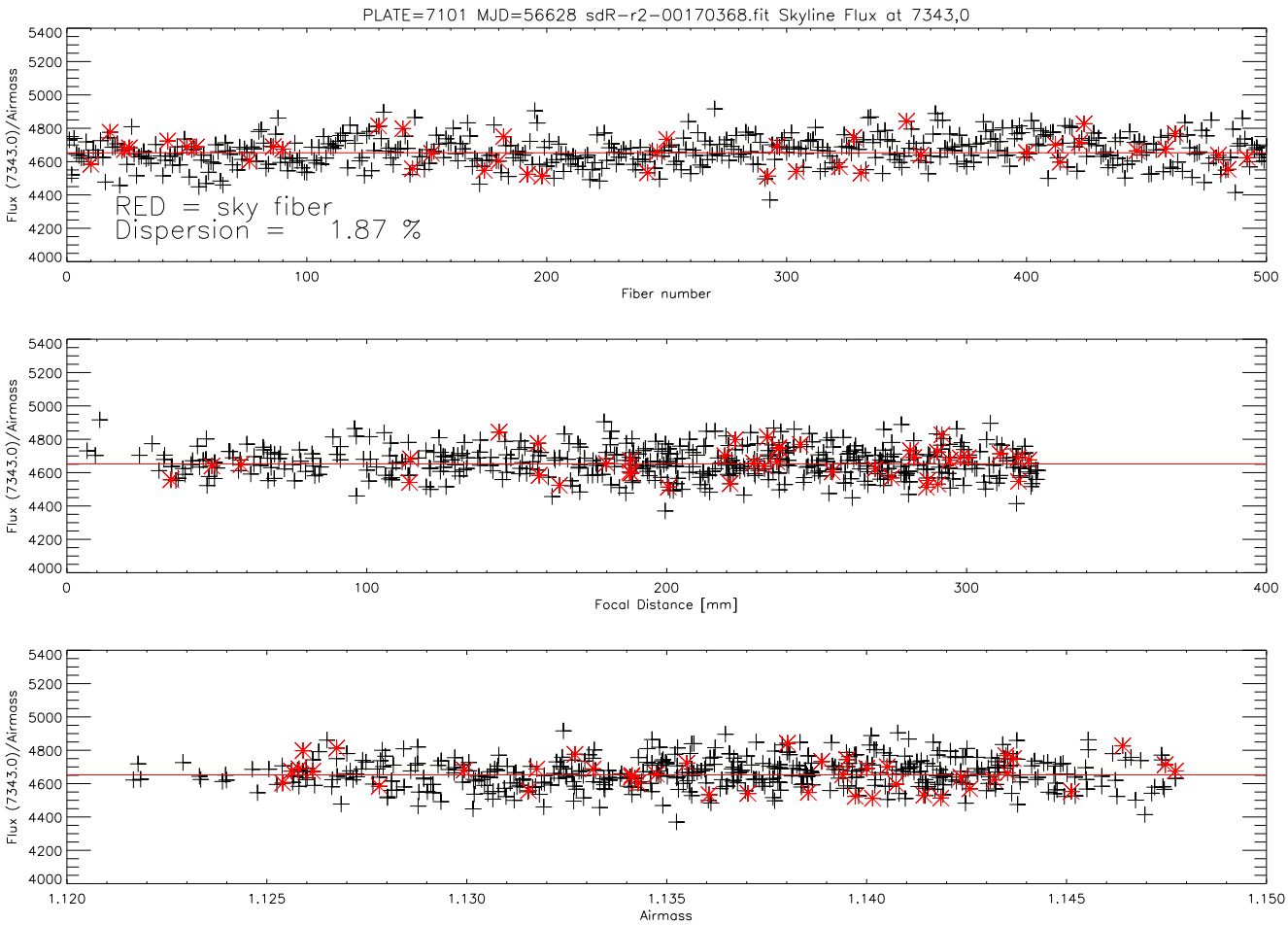

PLATE=7101 MJD=56628 sdR-r2-00170368.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

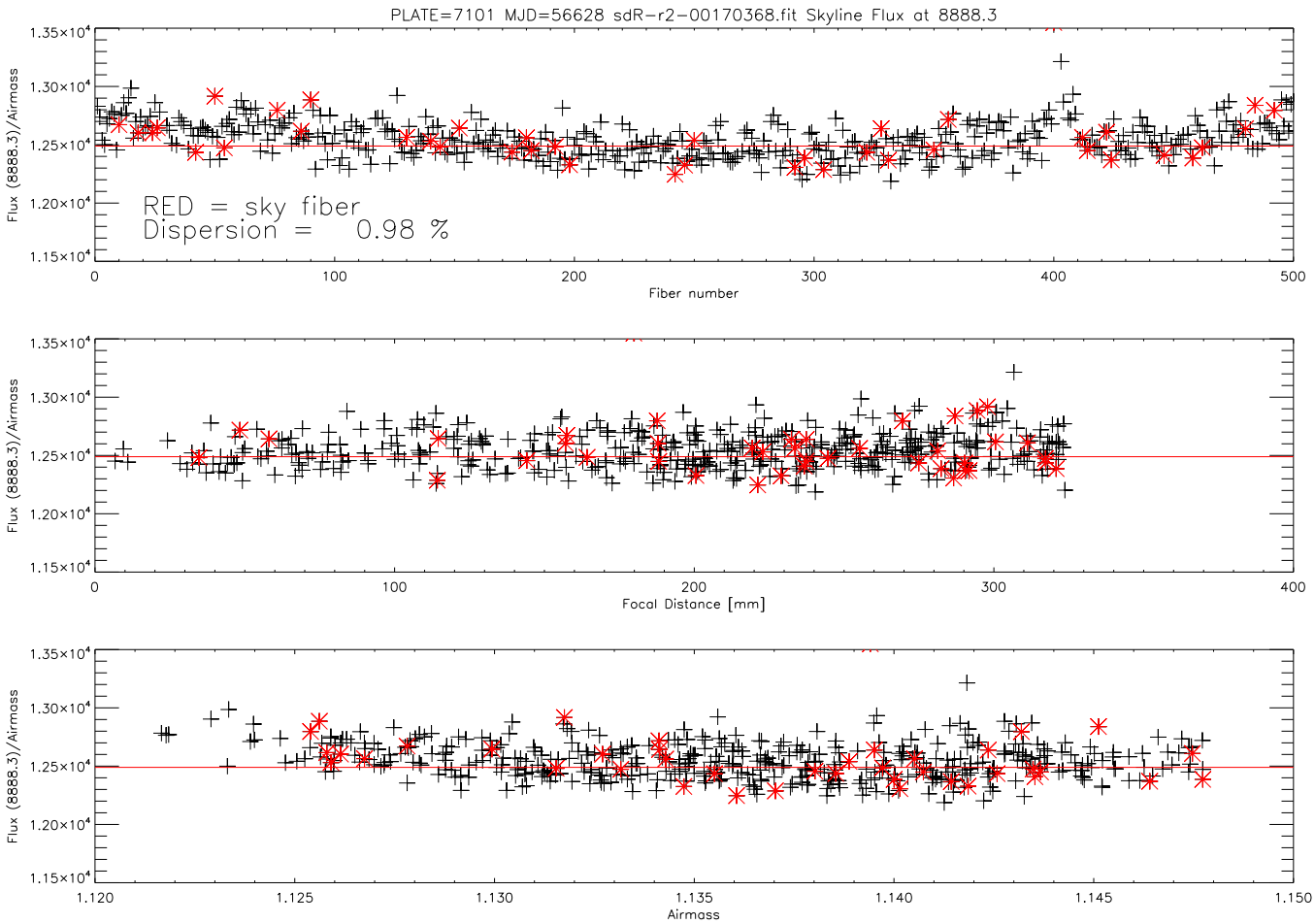

PLATE=7101 MJD=56628 sdR-r2-00170368.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

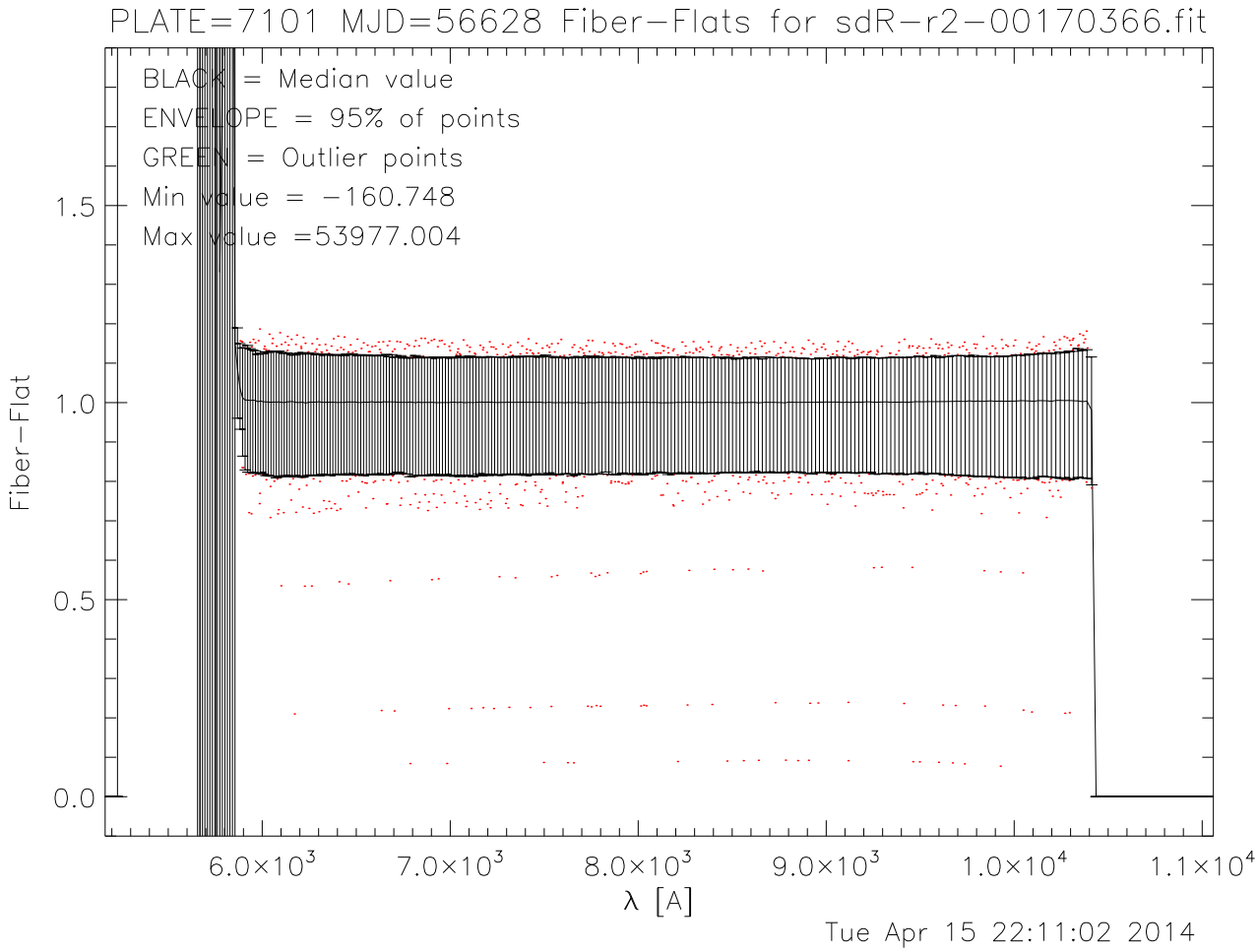

PLATE=7101 MJD=56628 sdR-r2-00170368.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

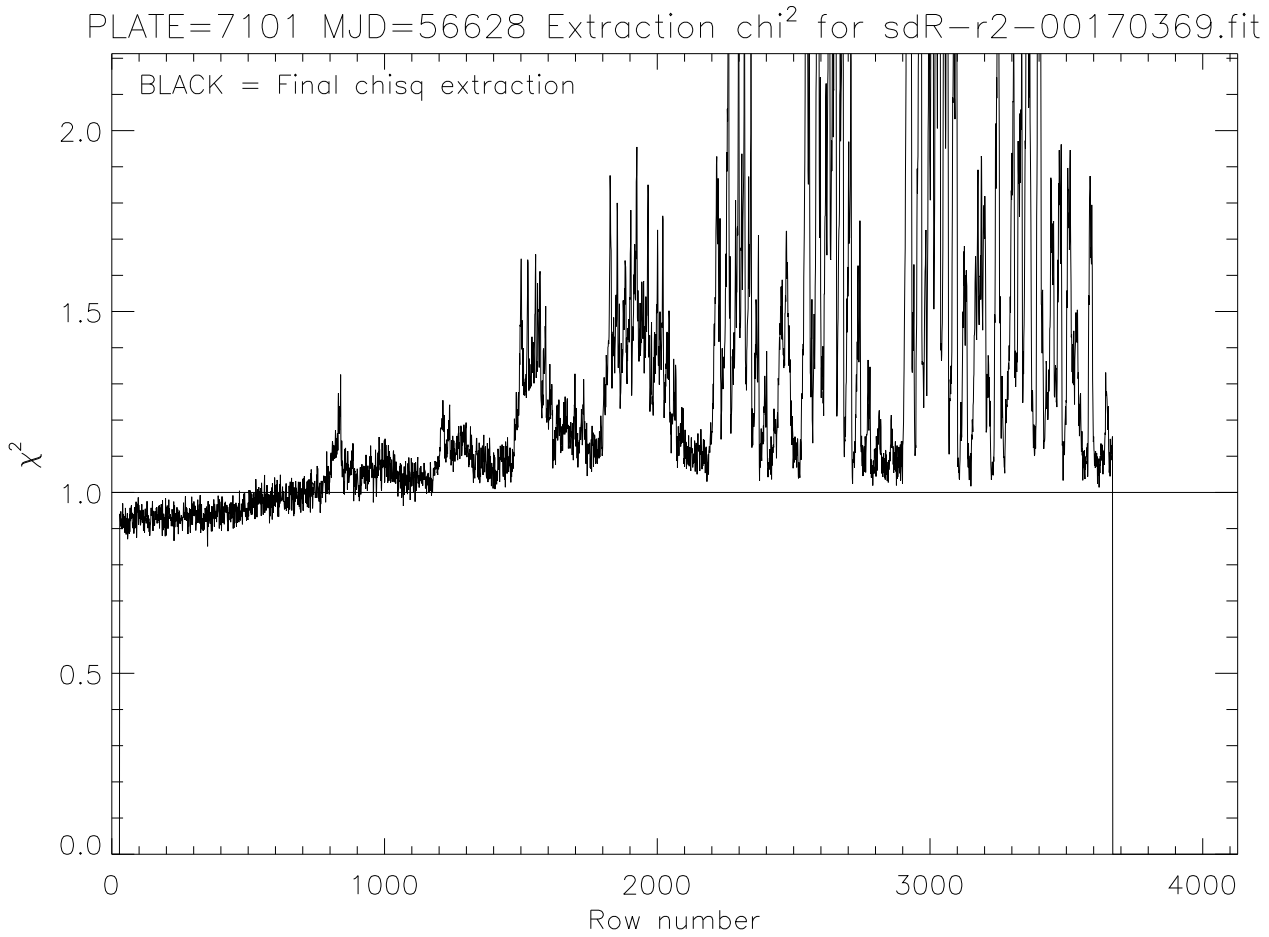
Number of sky fibers = 41

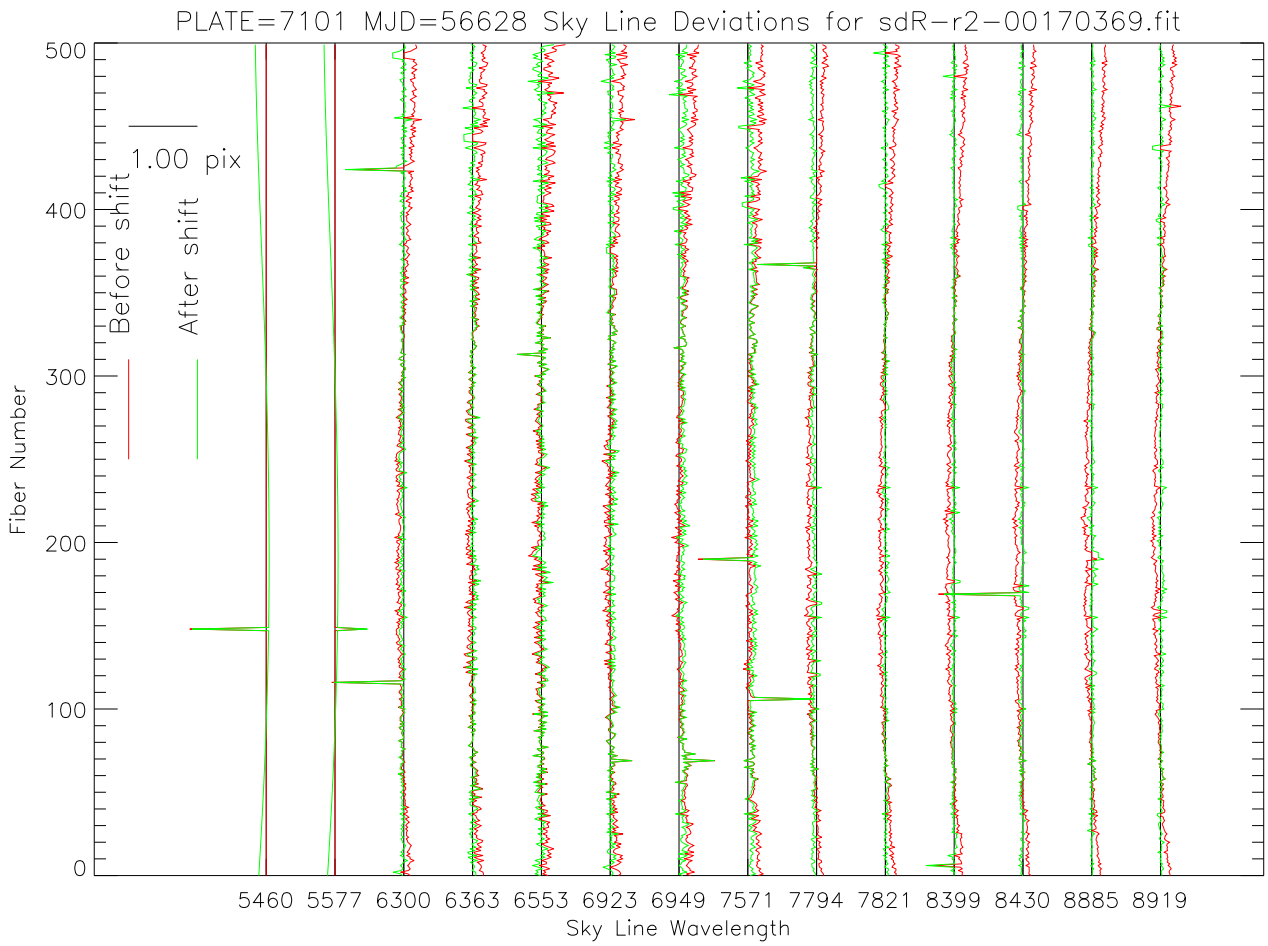


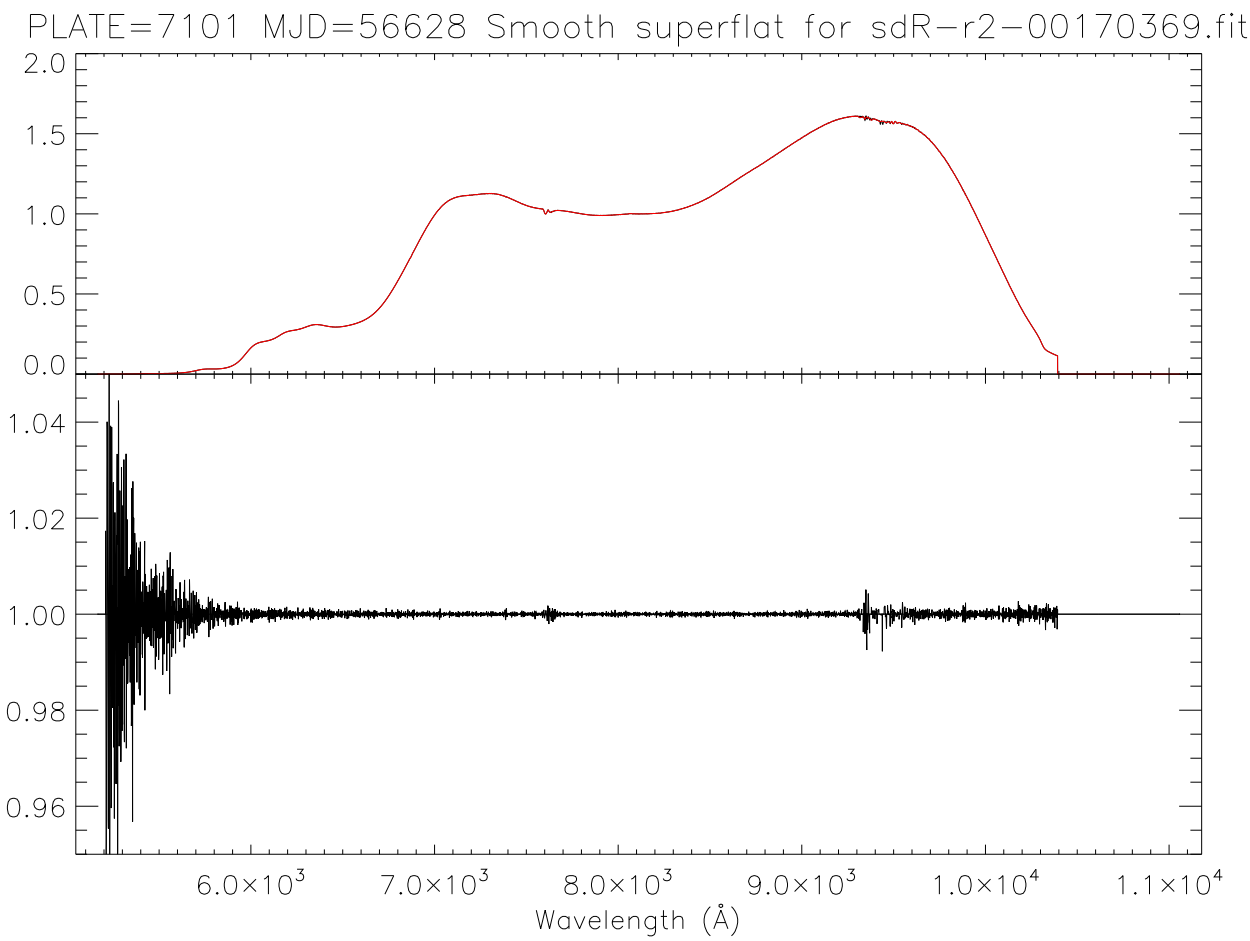

PLATE=7101 MJD=56628 sdR-r2-00170368.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 1.87 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

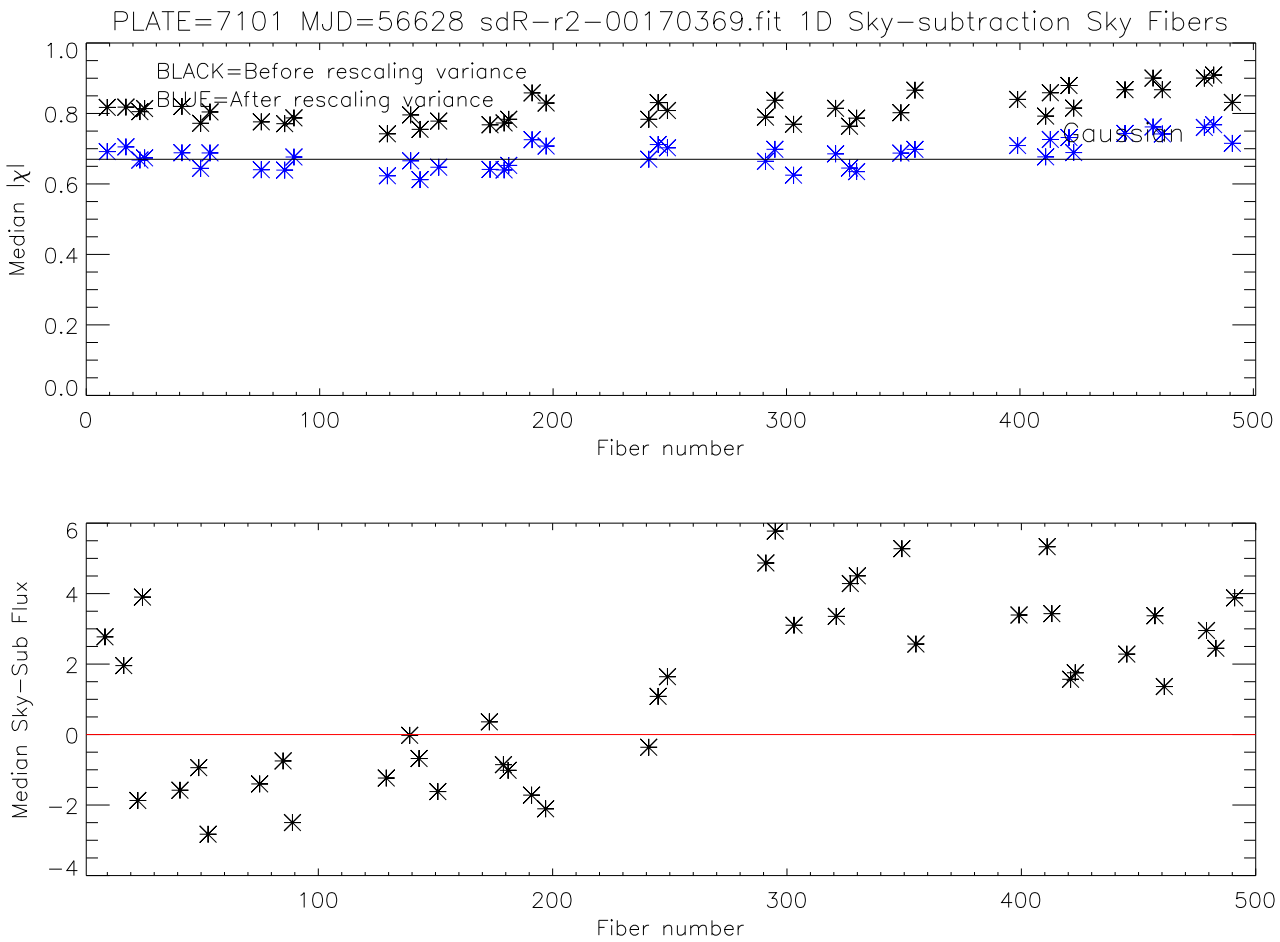

PLATE=7101 MJD=56628 sdR-r2-00170368.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
1.35×10^4
1.30×10^4
1.25×10^4
1.20×10^4
1.15×10^4
RED = sky fiber
Dispersion = 0.98 %
0
100
200
300
400
500
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
1.120
1.125
1.130
1.135
1.140
1.145
1.150
Airmass


PLATE=7101 MJD=56628 Fiber−Flats for sdR−r2−00170366.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −160.748
Max value =53977.004
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Tue Apr 15 22:11:02 2014

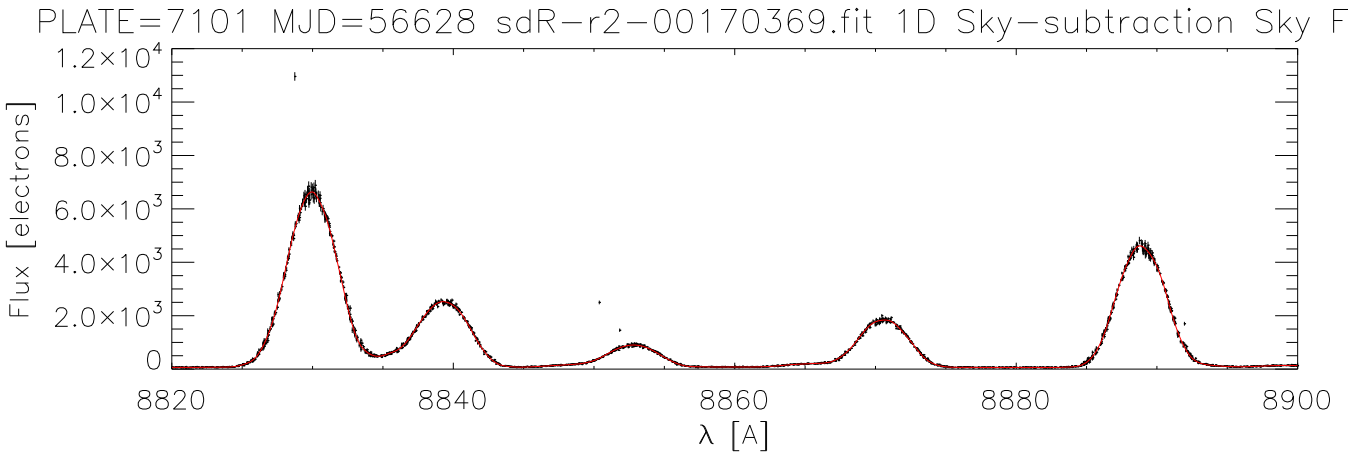

PLATE=7101 MJD=56628 Extraction chi^2 for sdR−r2−00170369.fit
BLACK = Final chisq extraction
2.0
1.5
1.0
0.5
0.0
χ^2
0
1000
2000
3000
4000
Row number

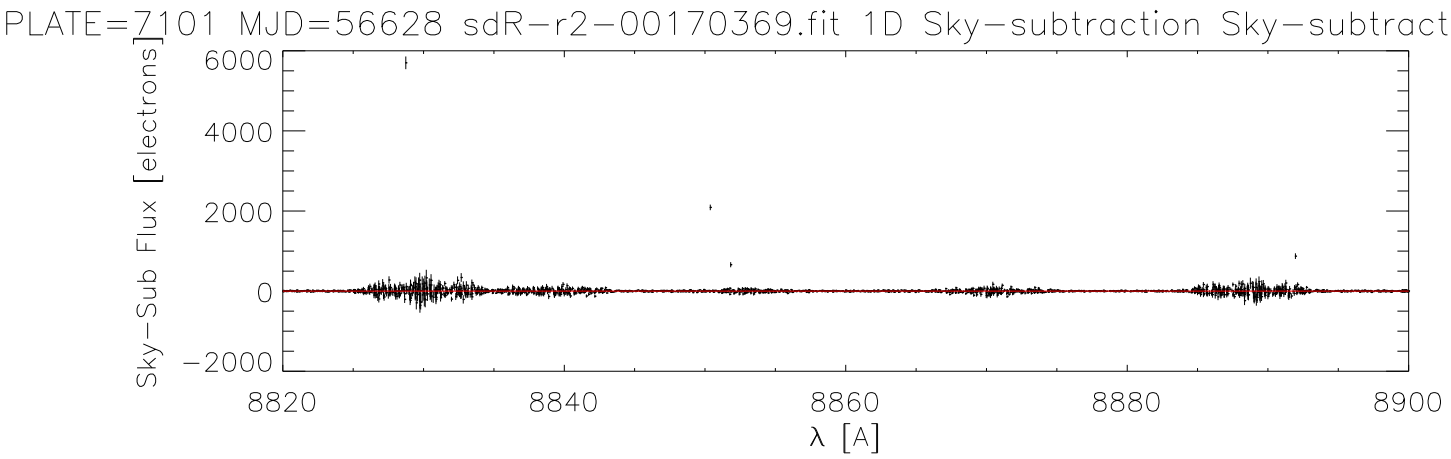

PLATE=7101 MJD=56628 Sky Line Deviations for sdR-r2-00170369.fit
Before shift
After shift
1.00 pix
Fiber Number
0
100
200
300
400
500
5460 5577 6300 6363 6553 6923 6949 7571 7794 7821 8399 8430 8885 8919
Sky Line Wavelength


PLATE=7101 MJD=56628 Smooth superflat for sdR-r2-00170369.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)

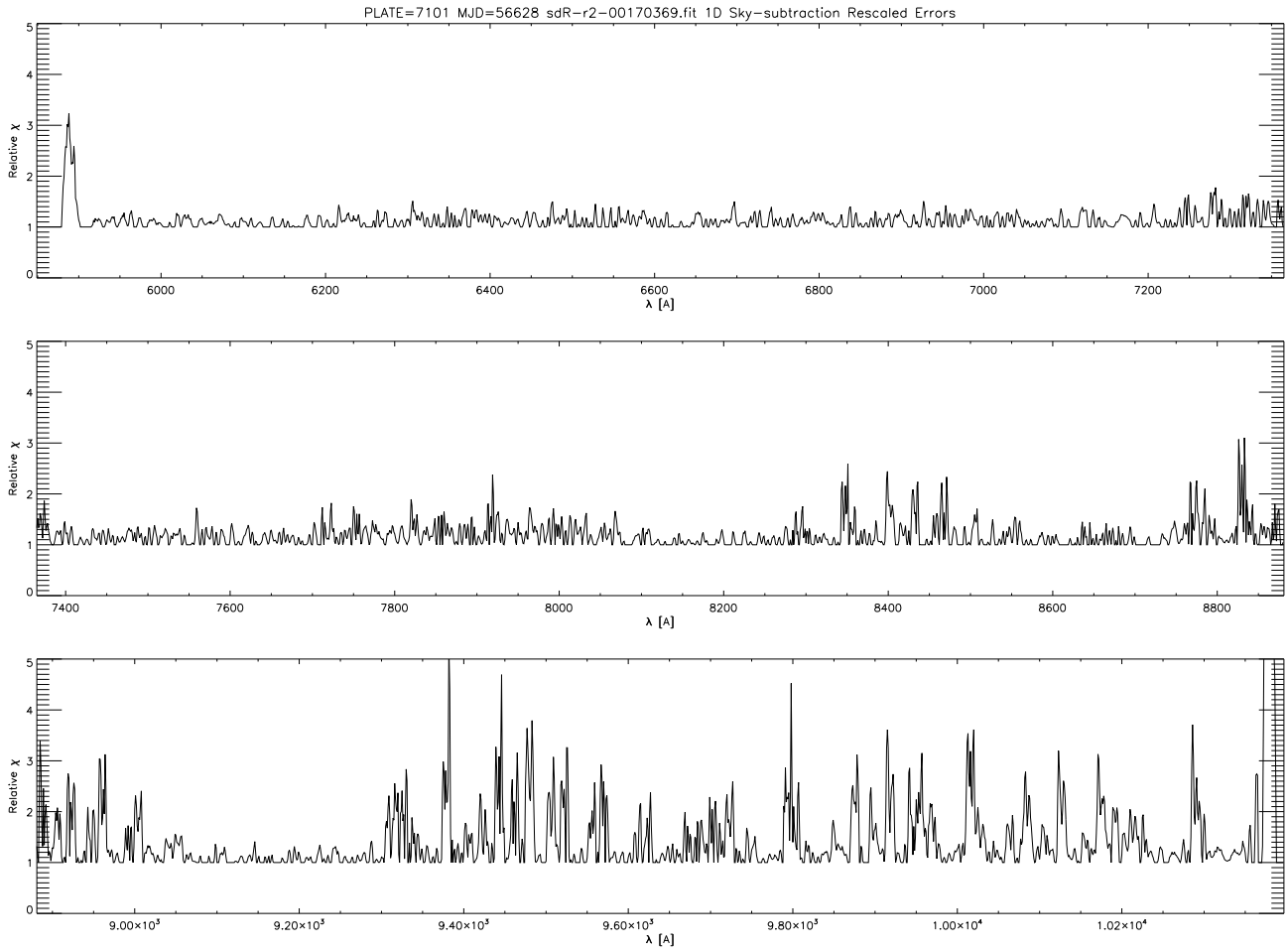

PLATE=7101 MJD=56628 sdR-r2-00170369.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number

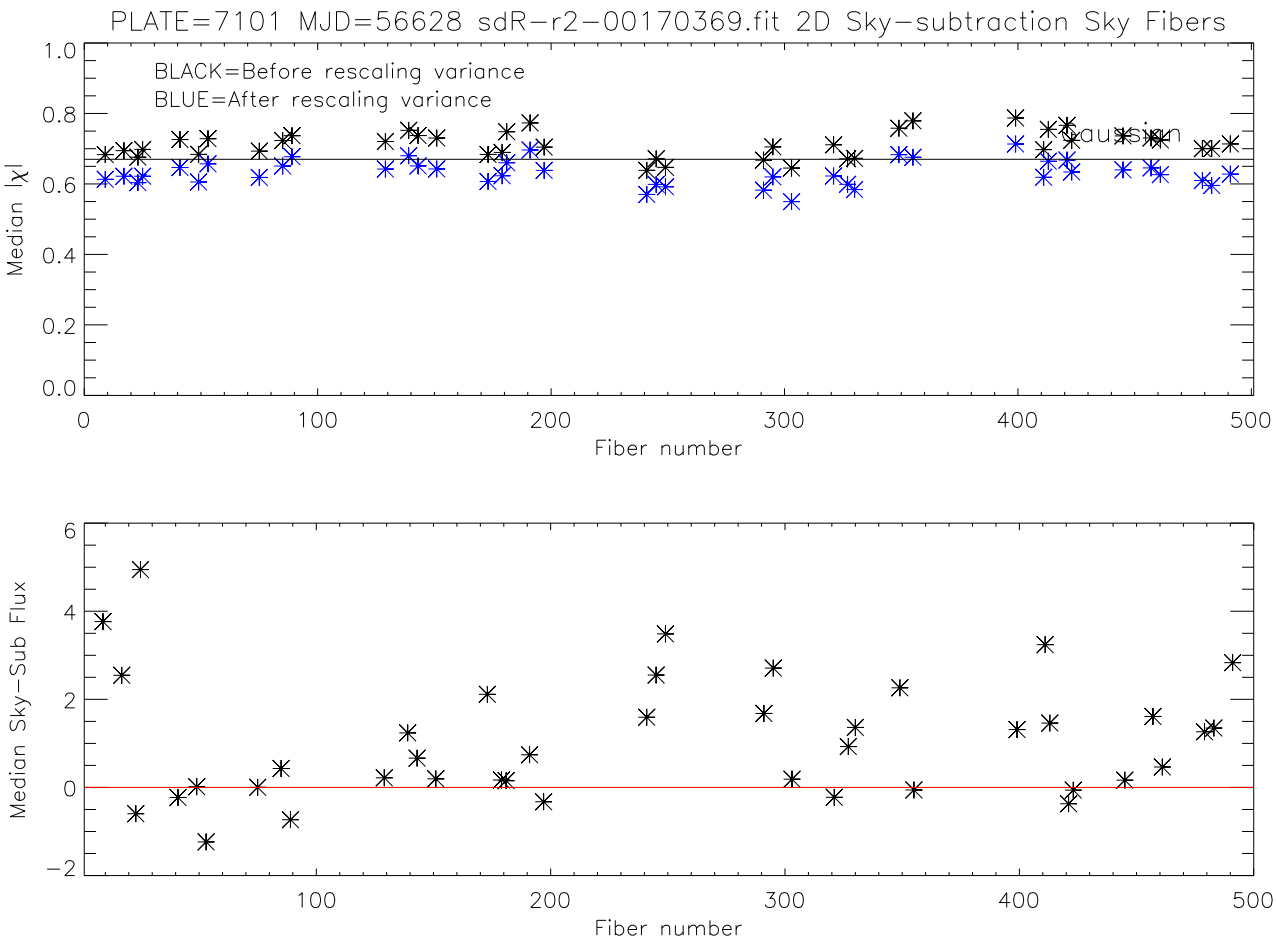
Median Sky-Sub Flux
Fiber number


PLATE=7101 MJD=56628 sdR-r2-00170369.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1.2×10^4
1.0×10^4
8.0×10^3
6.0×10^3
4.0×10^3
2.0×10^3
0
8820
8840
8860
8880
8900
λ [A]

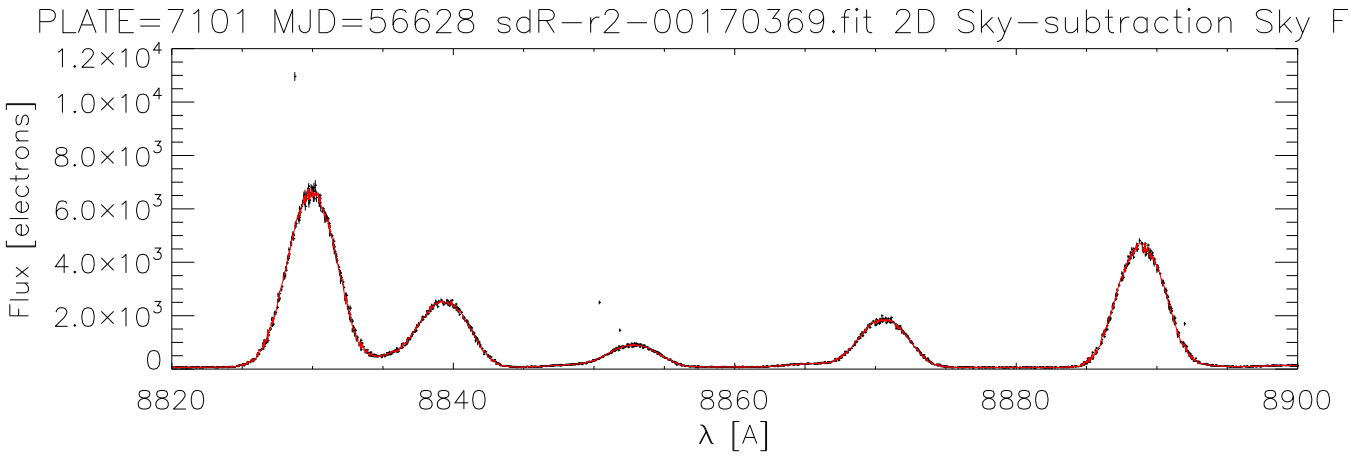

PLATE=7101 MJD=56628 sdR-r2-00170369.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
6000
4000
2000
0
−2000
8820
8840
8860
8880
8900
λ [A]

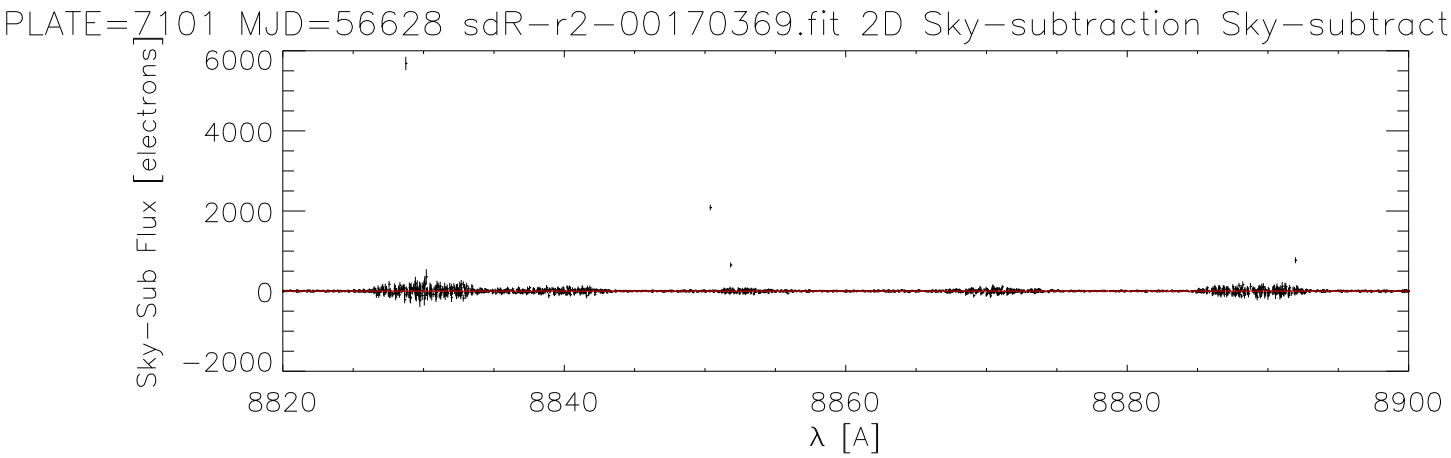
Number of sky fibers = 41



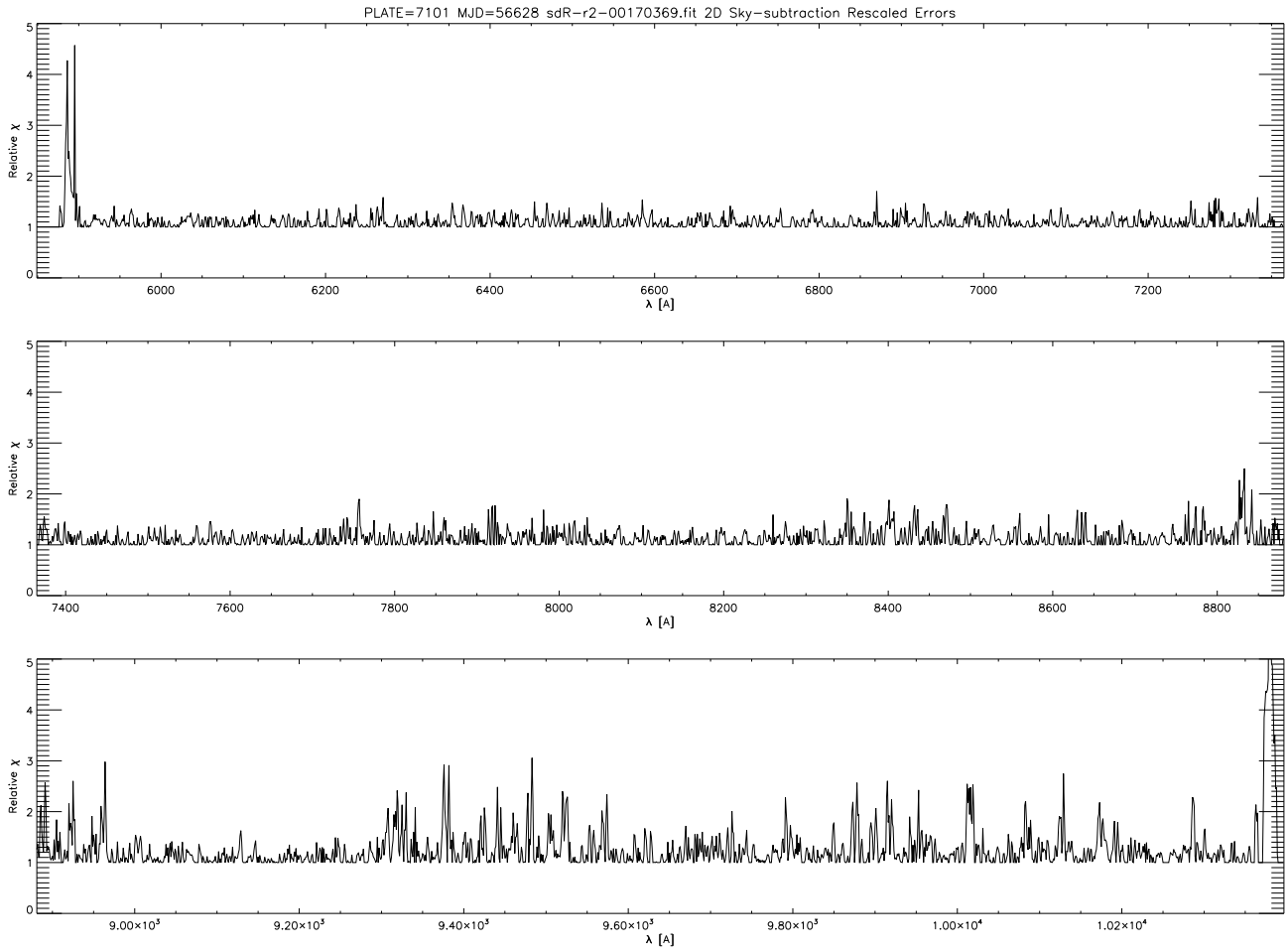

PLATE=7101 MJD=56628 sdR-r2-00170369.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number

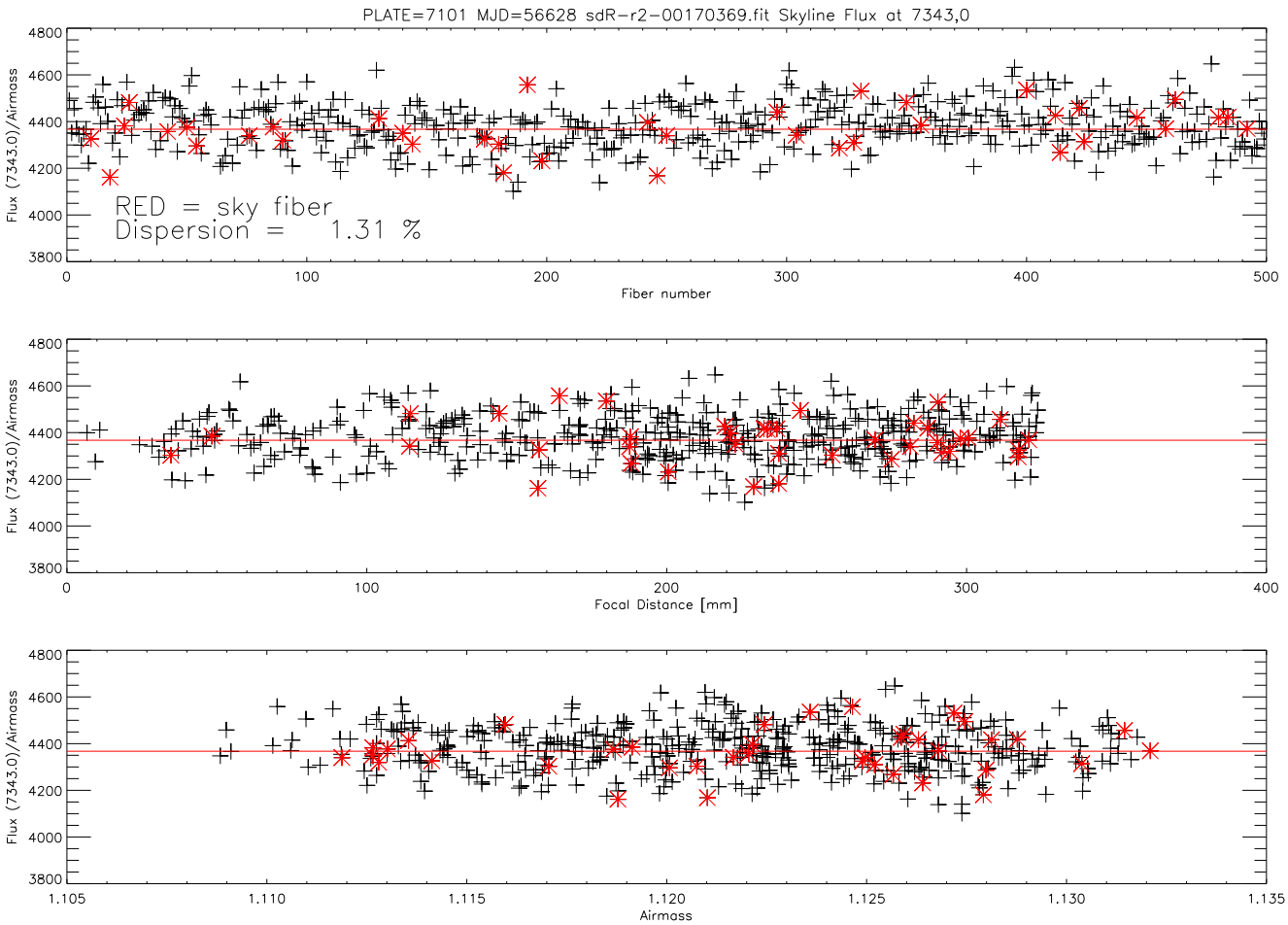
Median Sky-Sub Flux
Fiber number

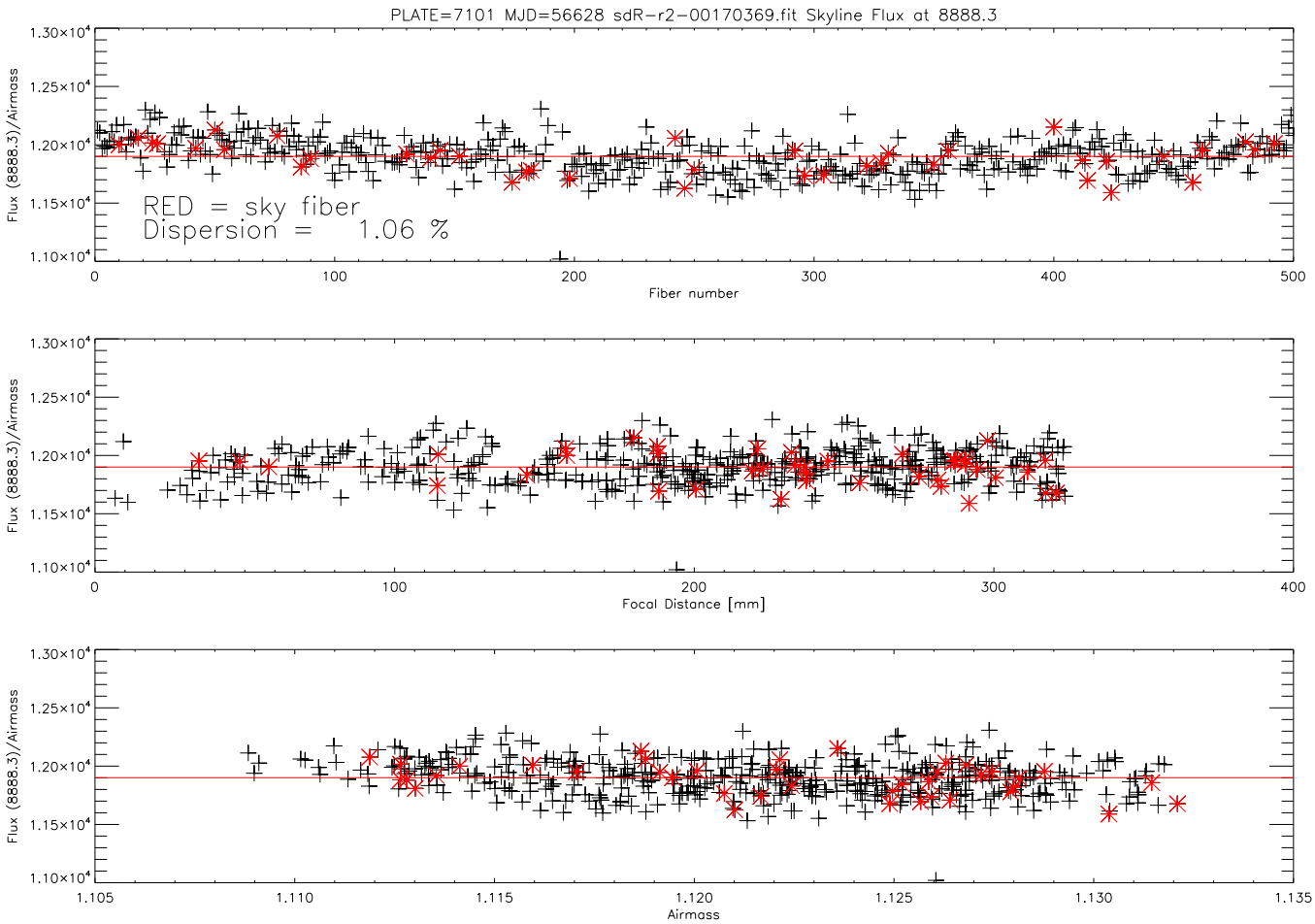

PLATE=7101 MJD=56628 sdR-r2-00170369.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1.2×10^4
1.0×10^4
8.0×10^3
6.0×10^3
4.0×10^3
2.0×10^3
0
8820
8840
8860
8880
8900
λ [A]

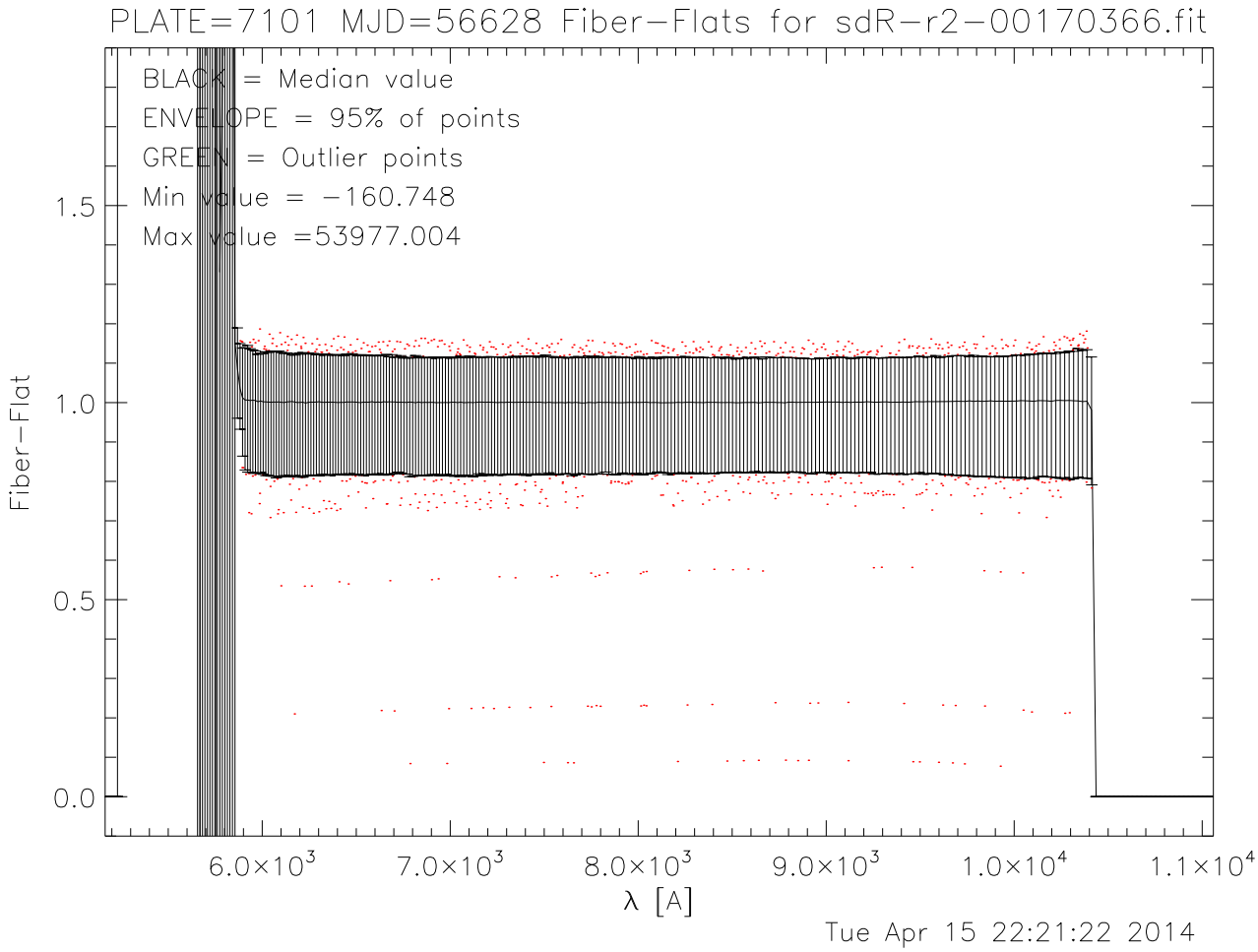

PLATE=7101 MJD=56628 sdR-r2-00170369.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
6000
4000
2000
0
−2000
8820
8840
8860
8880
8900
λ [A]

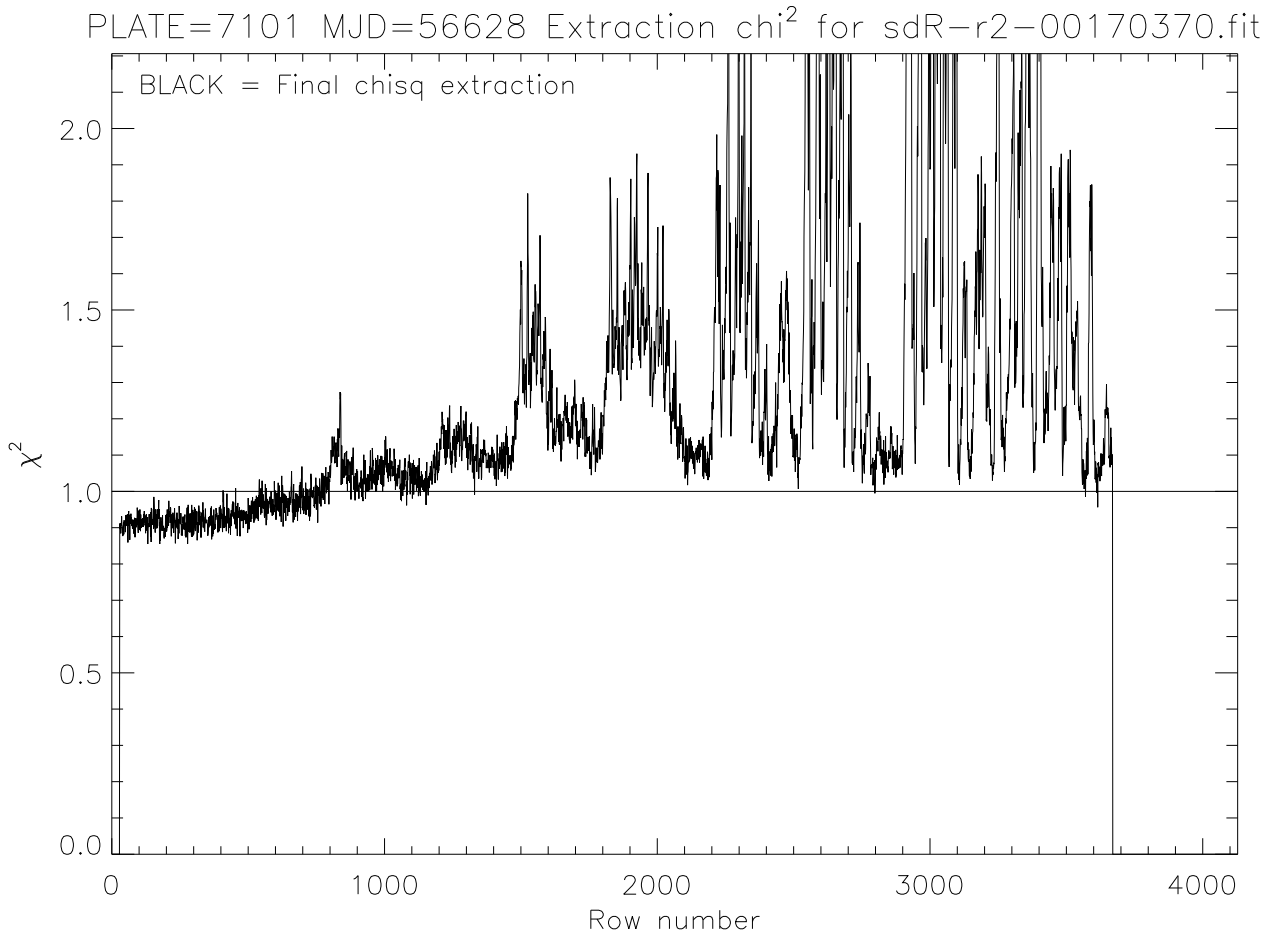
Number of sky fibers = 41

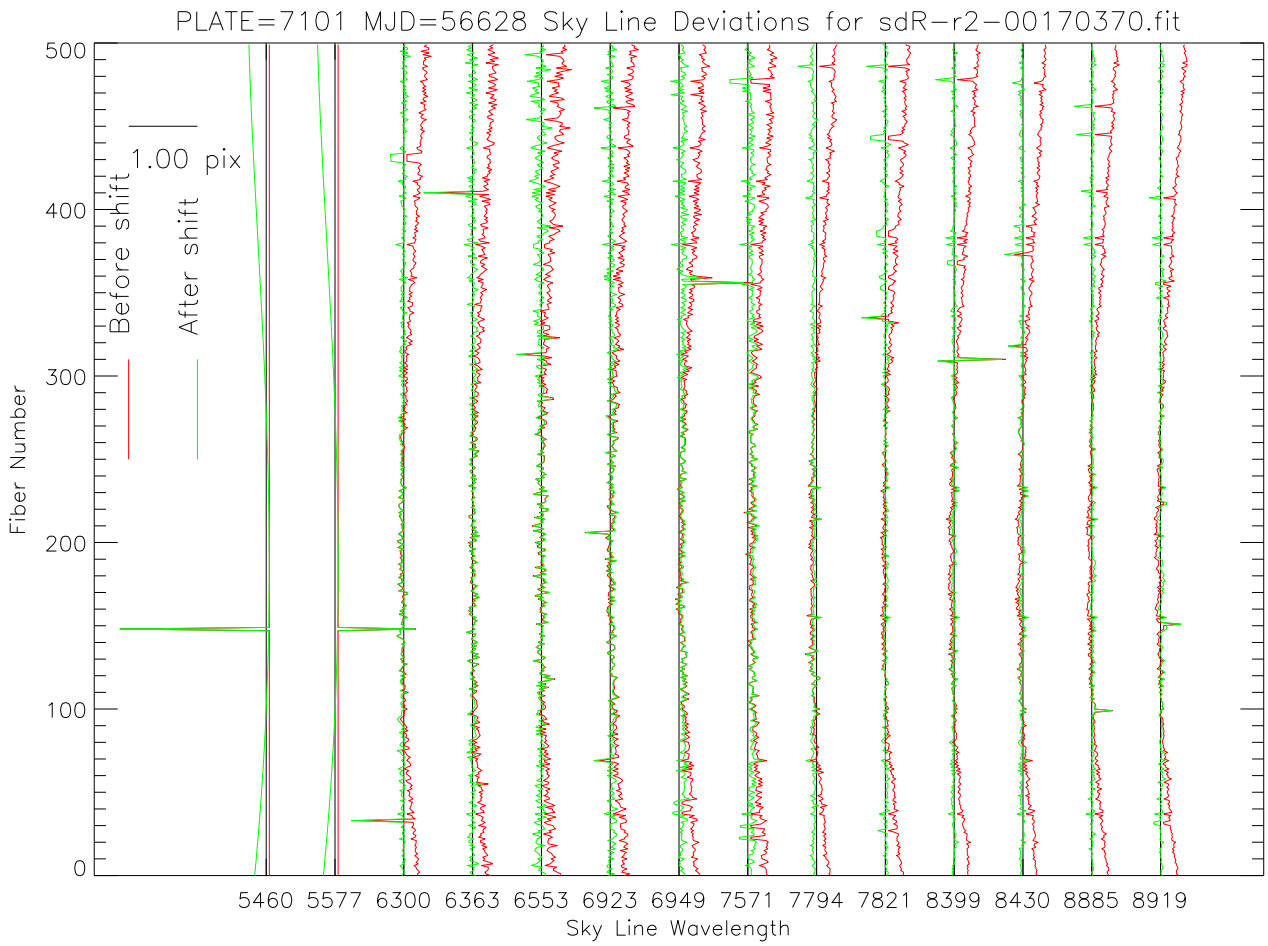


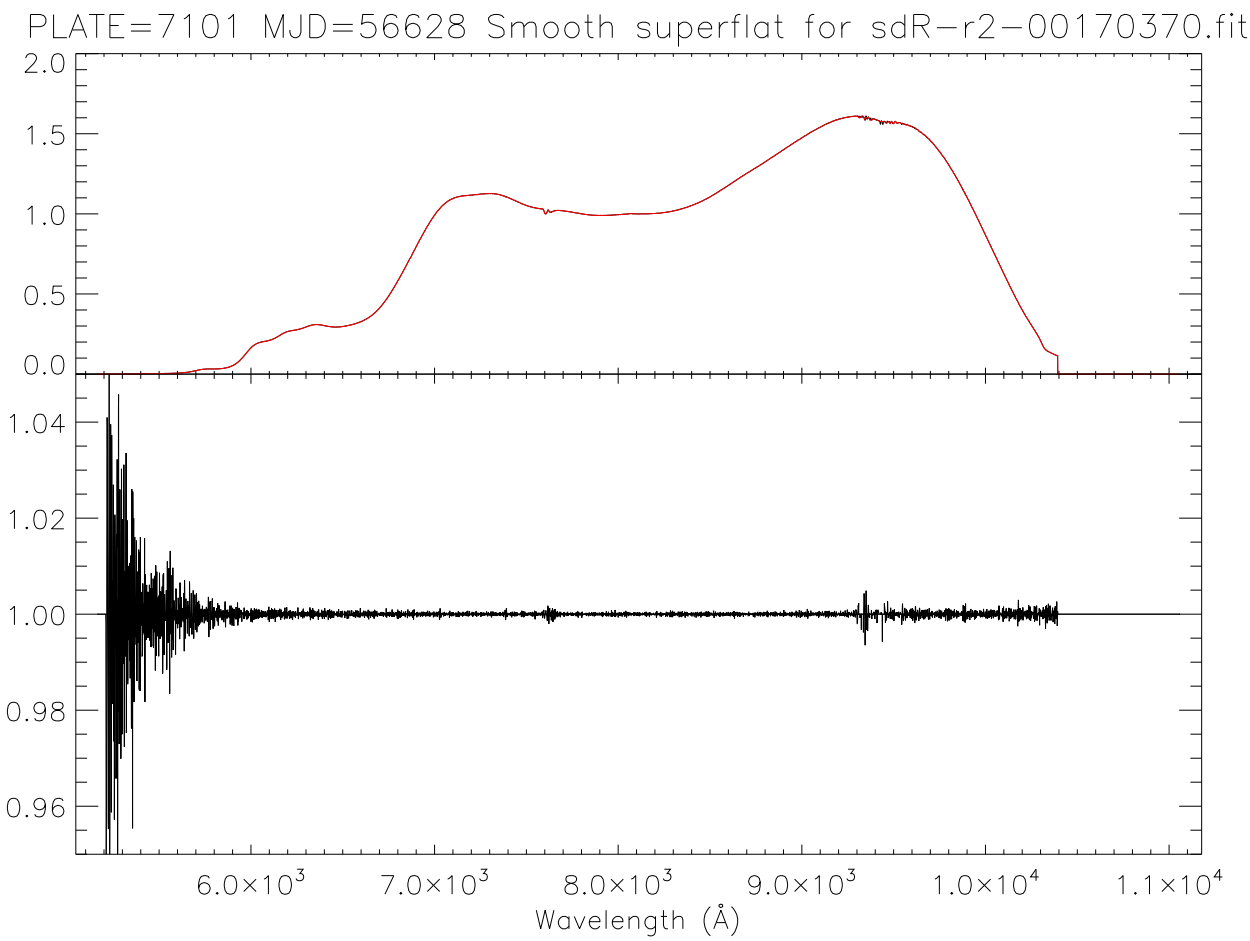

PLATE=7101 MJD=56628 sdR-r2-00170369.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 1.31 %
Fiber number
Focal Distance [mm]
Airmass

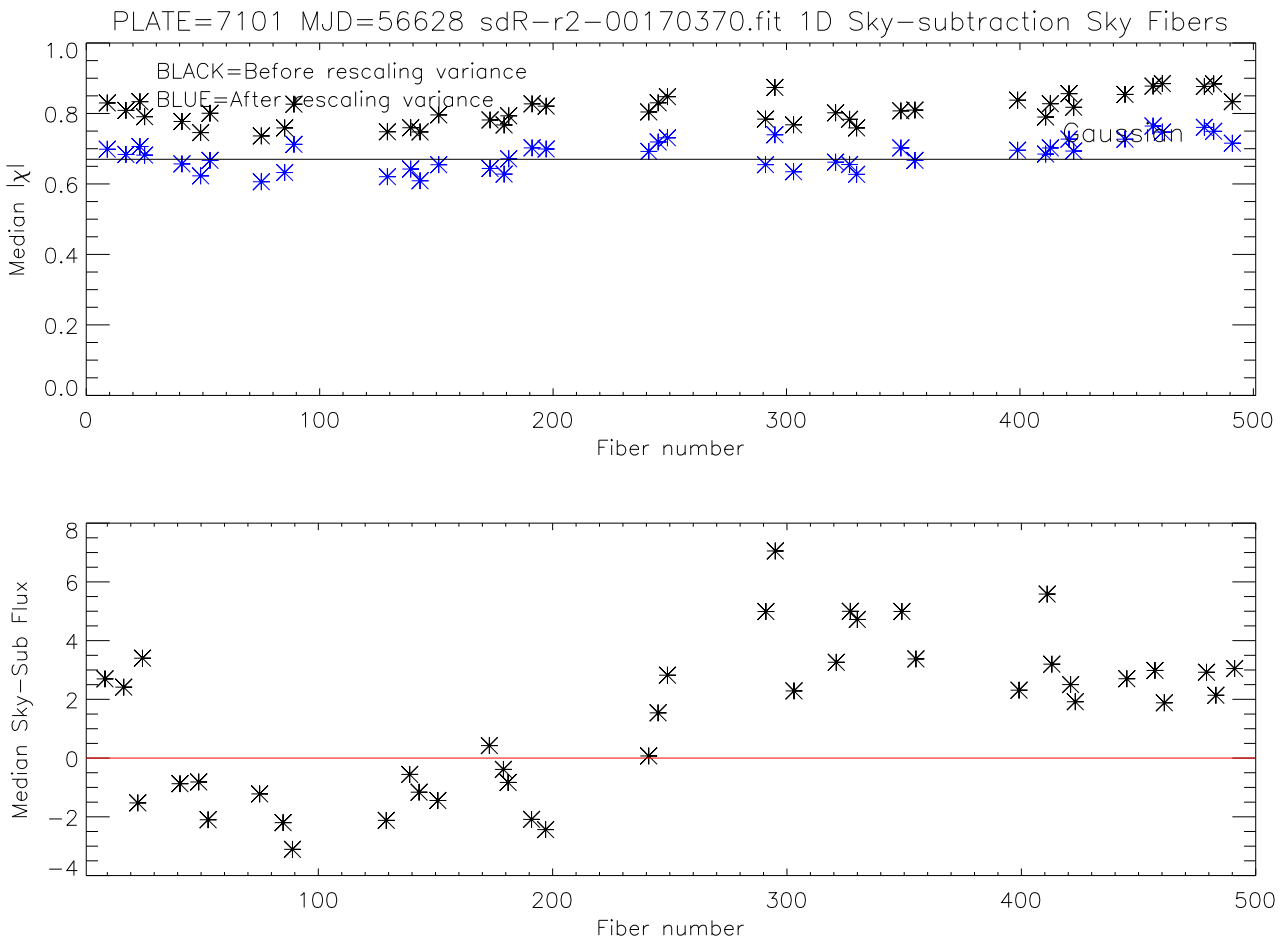

PLATE=7101 MJD=56628 sdR-r2-00170369.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
1.30×10^4
1.25×10^4
1.20×10^4
1.15×10^4
1.10×10^4
RED = sky fiber
Dispersion = 1.06 %
0
100
200
300
400
500
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
1.105
1.110
1.115
1.120
1.125
1.130
1.135
Airmass

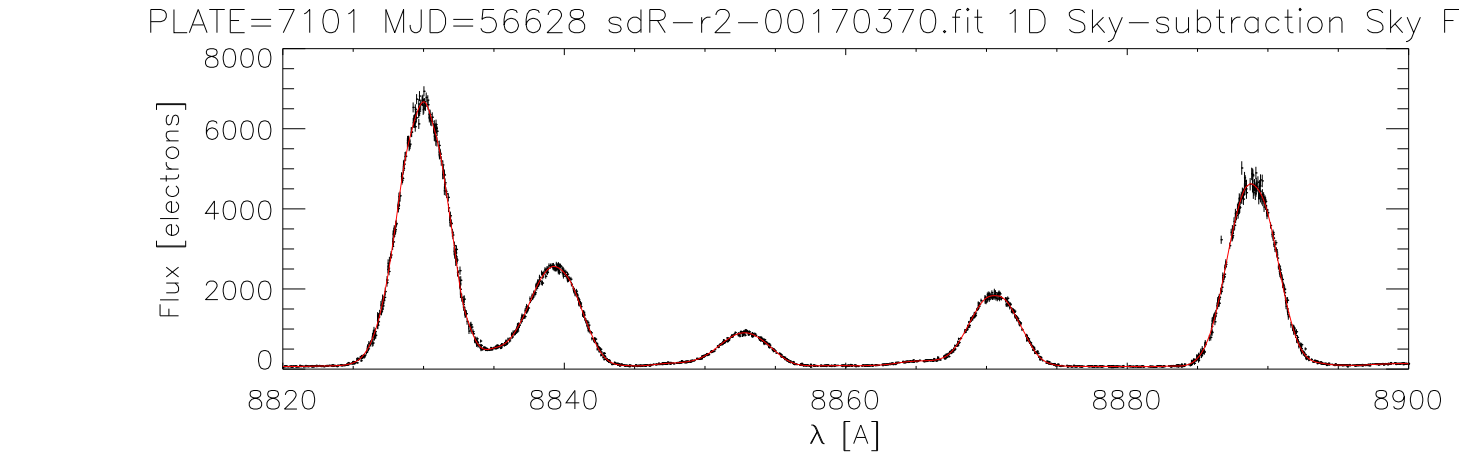

PLATE=7101 MJD=56628 Fiber−Flats for sdR−r2−00170366.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −160.748
Max value =53977.004
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Tue Apr 15 22:21:22 2014

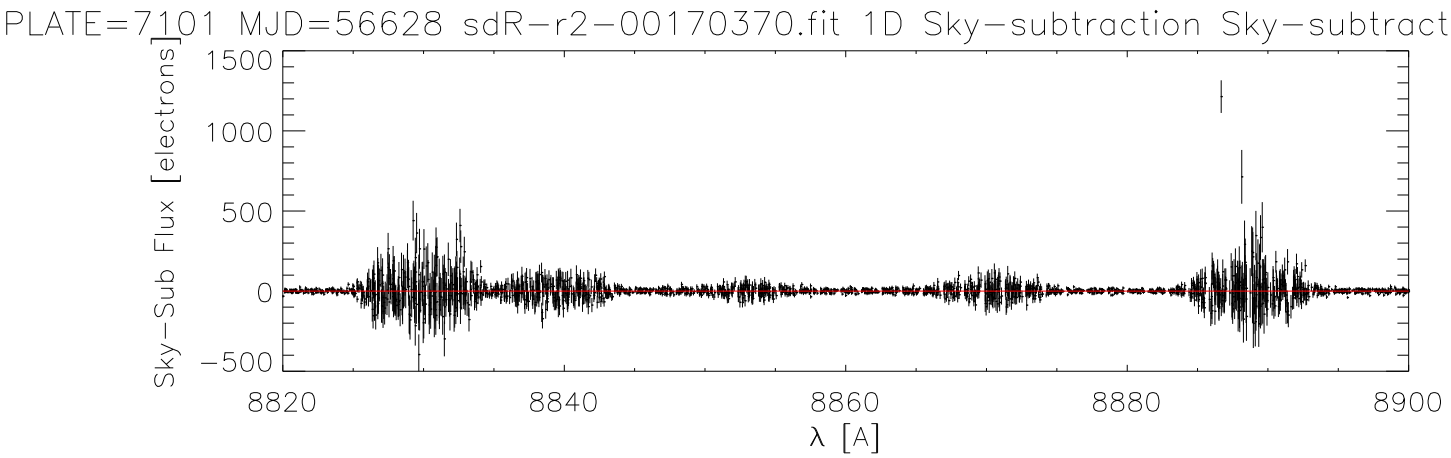

PLATE=7101 MJD=56628 Extraction chi^2 for sdR−r2−00170370.fit
BLACK = Final chisq extraction
χ^2
2.0
1.5
1.0
0.5
0.0
0
1000
2000
3000
4000
Row number


PLATE=7101 MJD=56628 Sky Line Deviations for sdR-r2-00170370.fit
1.00 pix
Before shift
After shift
Fiber Number
0
100
200
300
400
500
5460 5577 6300 6363 6553 6923 6949 7571 7794 7821 8399 8430 8885 8919
Sky Line Wavelength

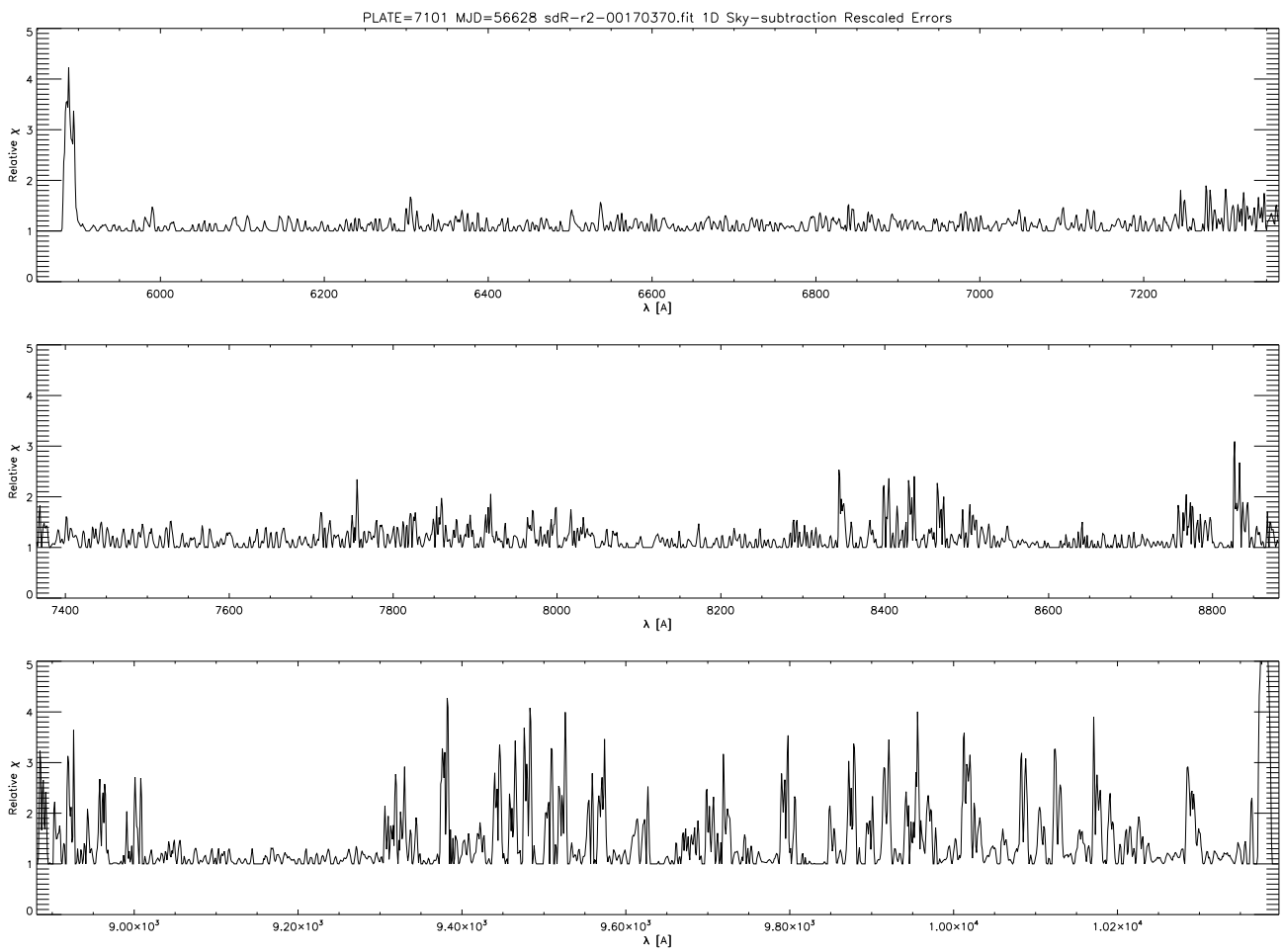

PLATE=7101 MJD=56628 Smooth superflat for sdR-r2-00170370.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

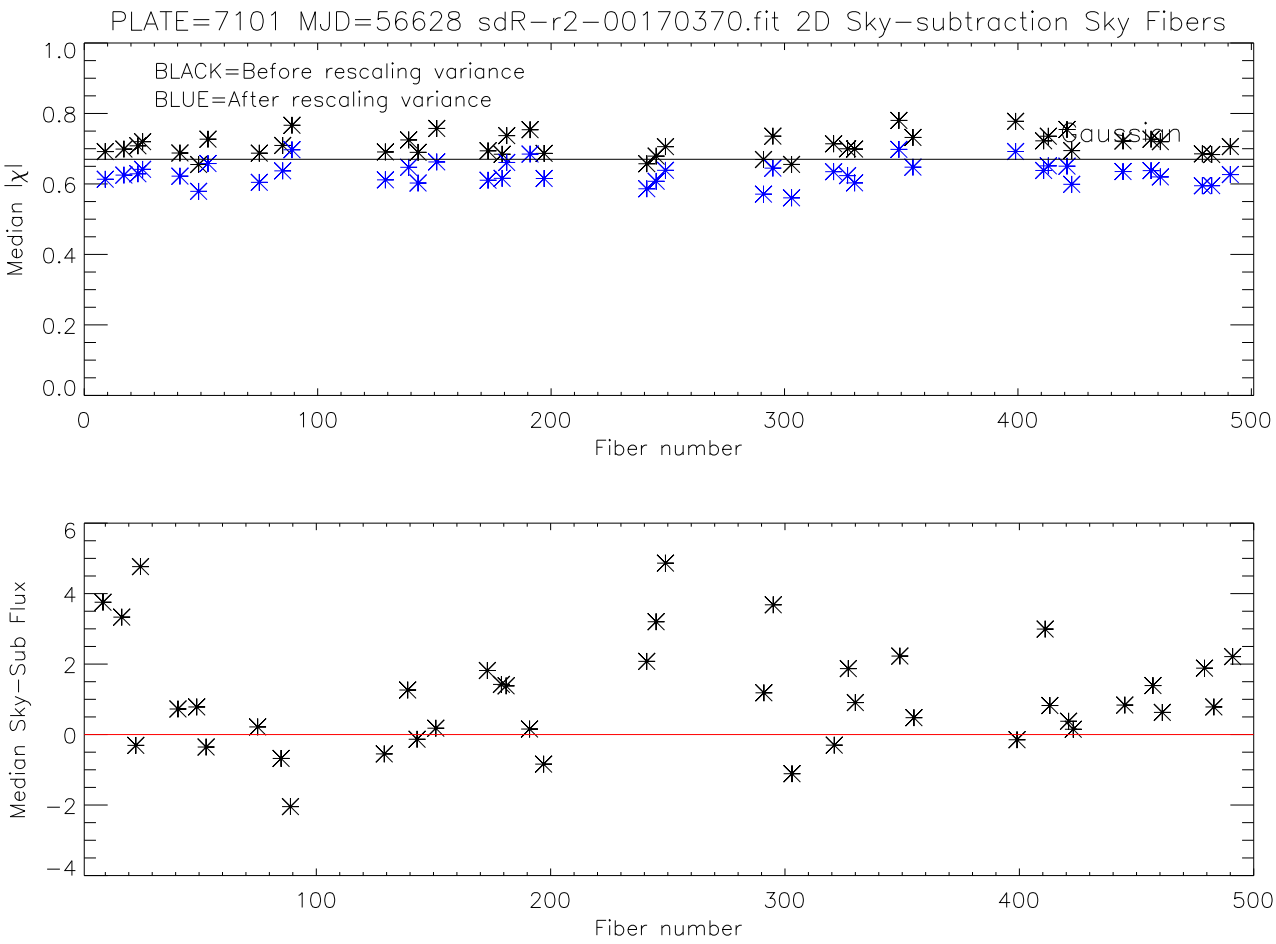

PLATE=7101 MJD=56628 sdR-r2-00170370.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number


PLATE=7101 MJD=56628 sdR-r2-00170370.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

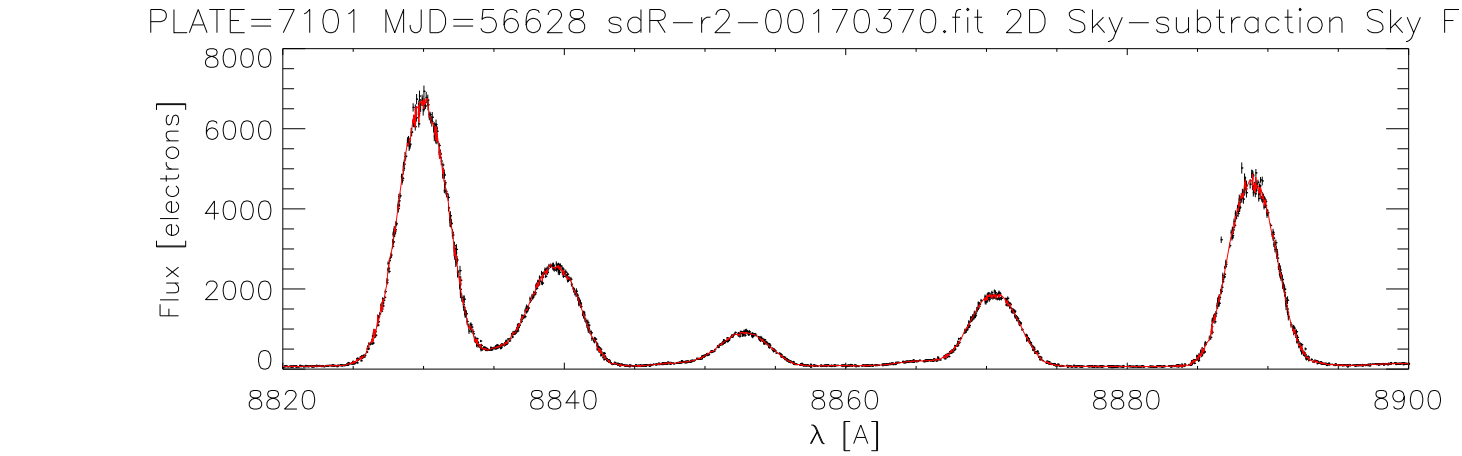

PLATE=7101 MJD=56628 sdR-r2-00170370.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

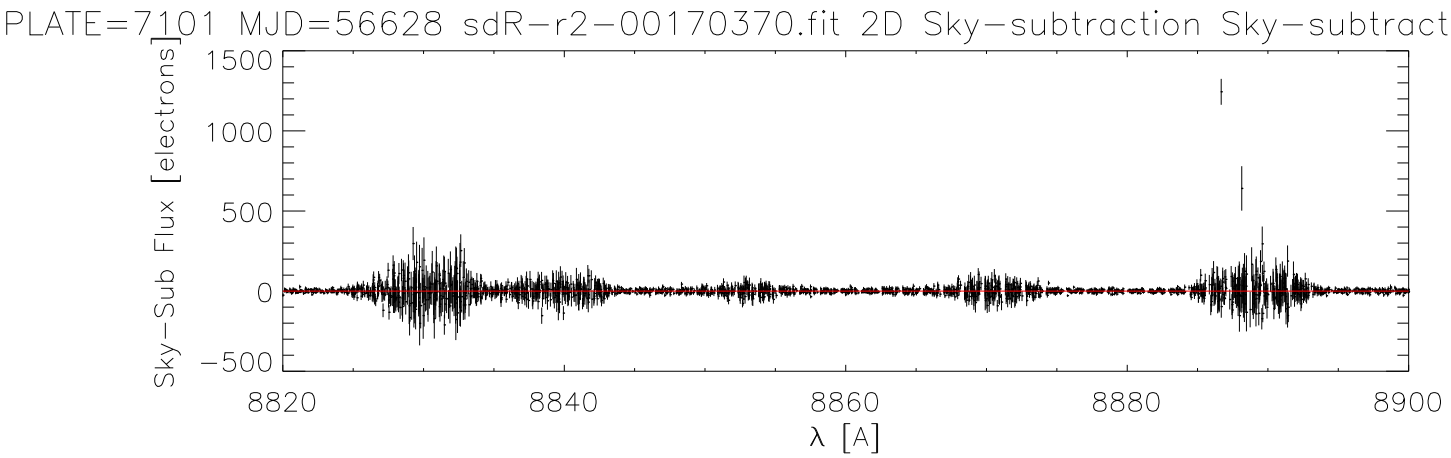
Number of sky fibers = 41



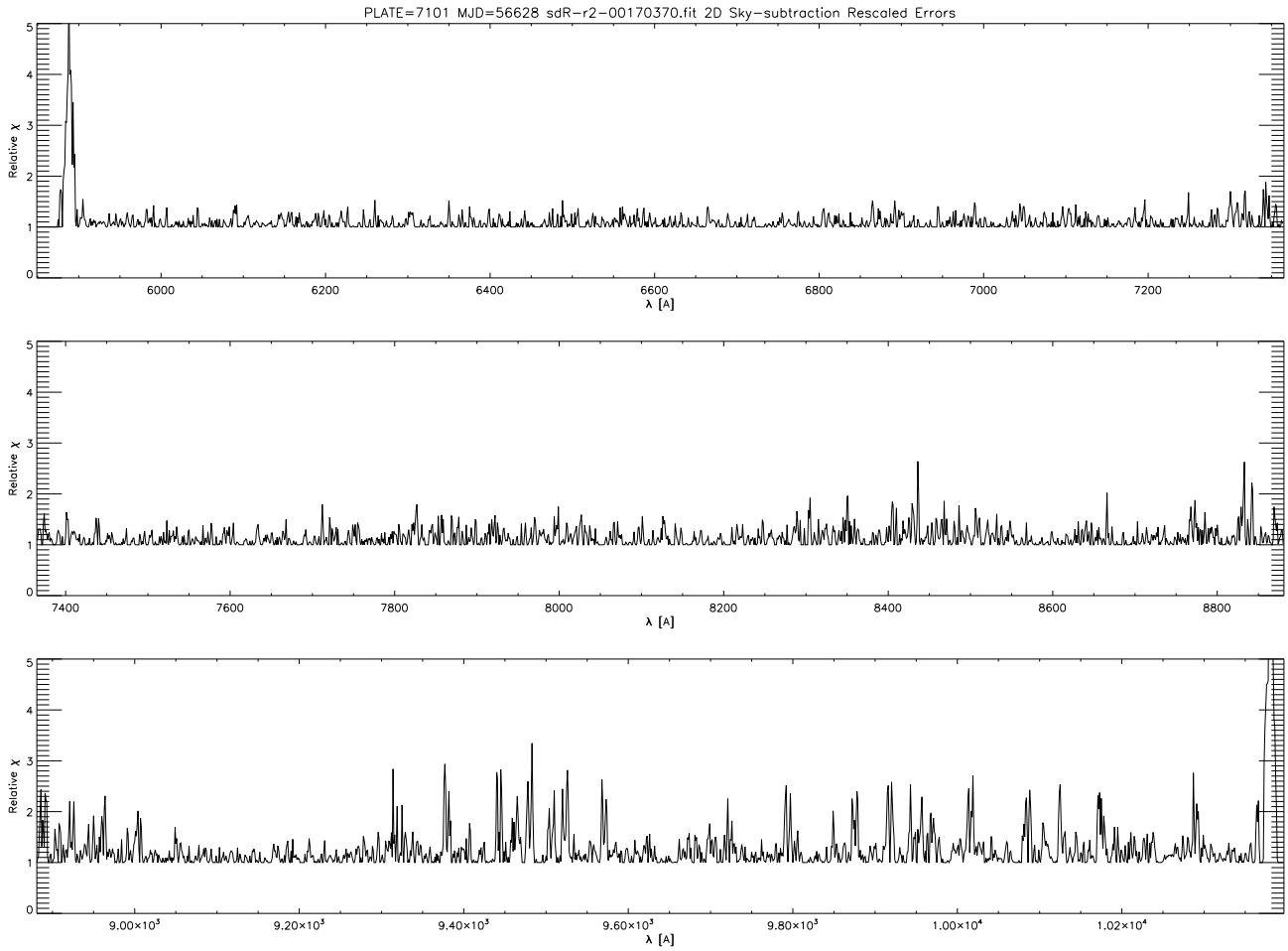

PLATE=7101 MJD=56628 sdR-r2-00170370.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number

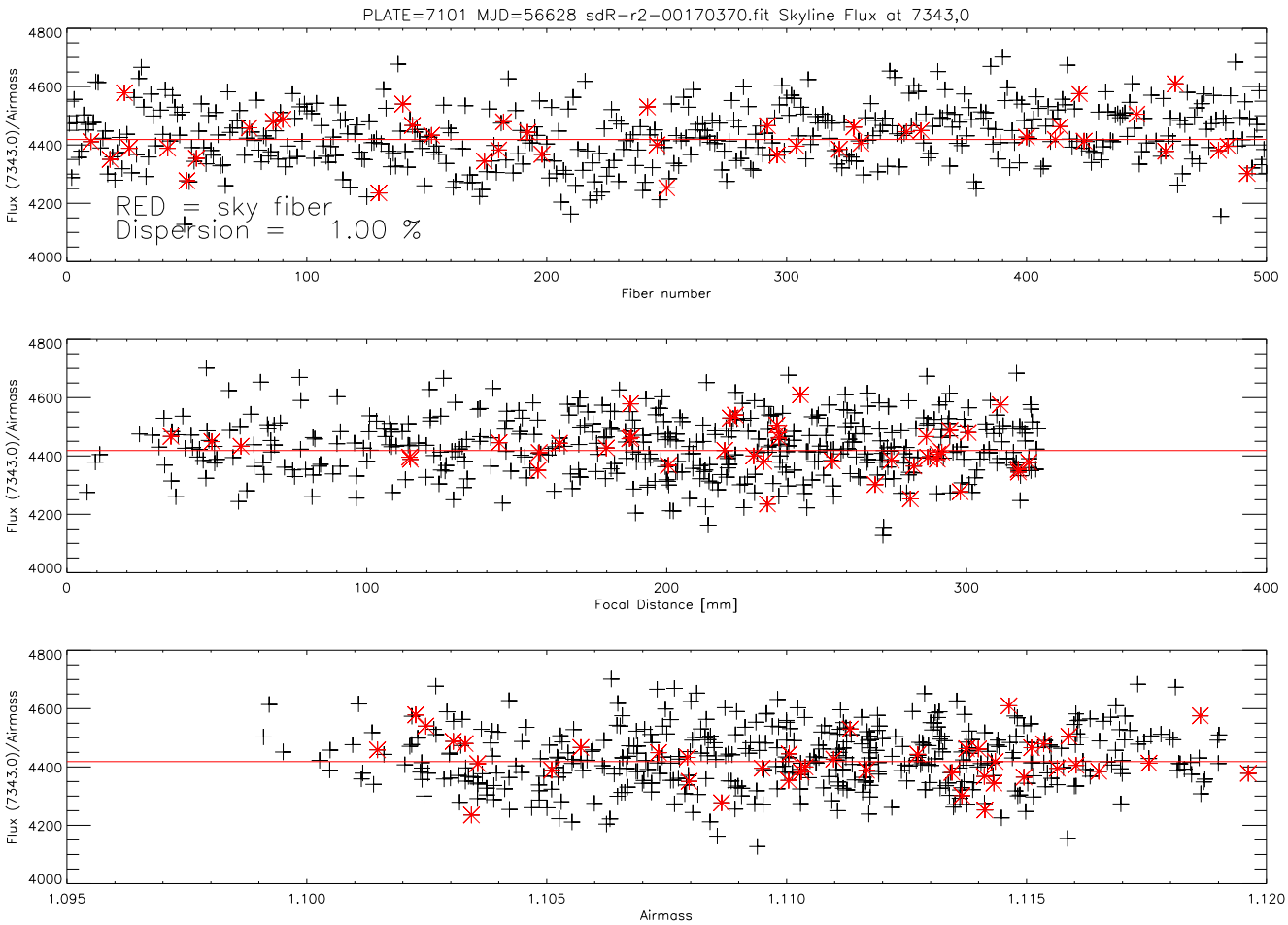
Median Sky-Sub Flux
Fiber number

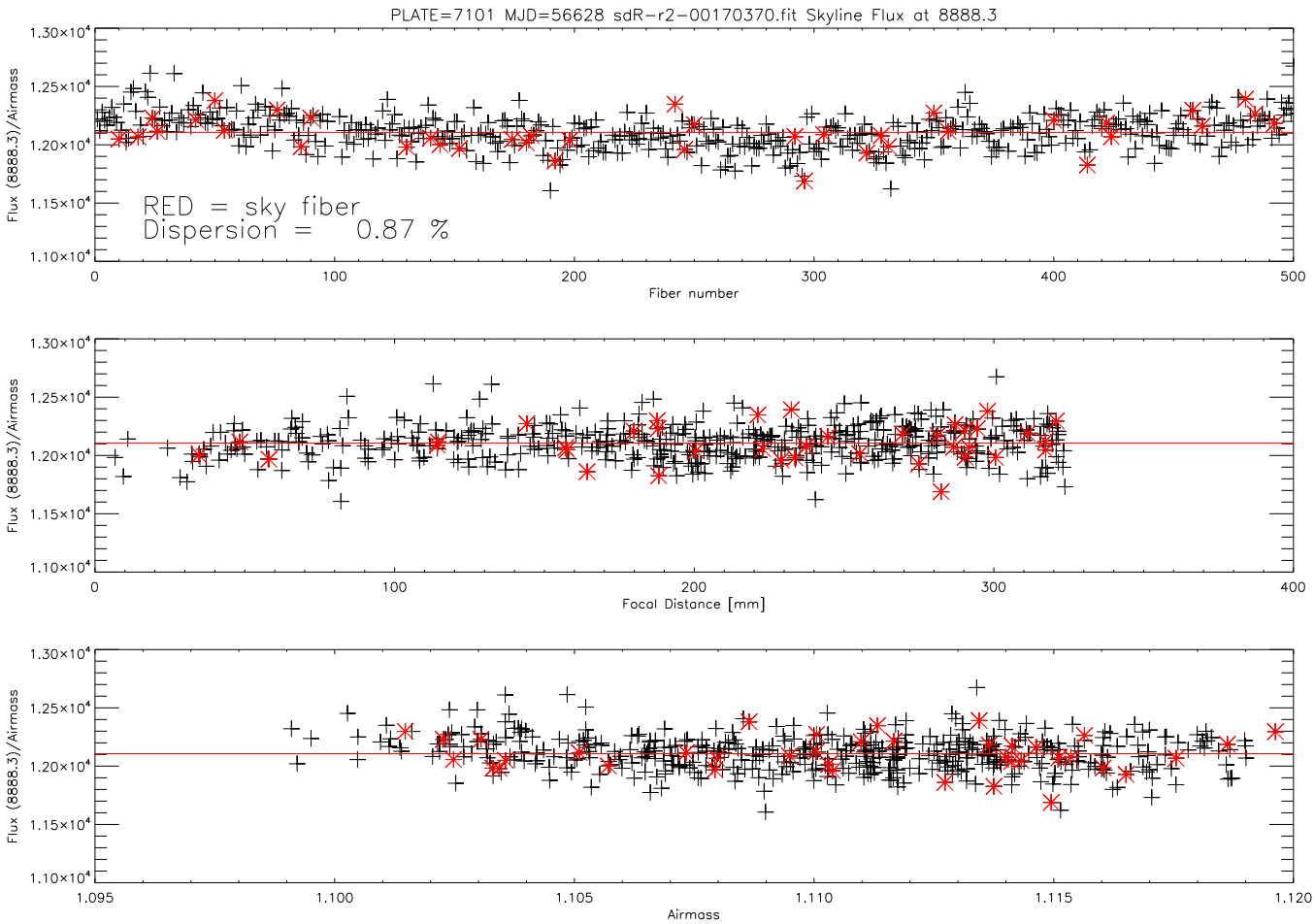

PLATE=7101 MJD=56628 sdR-r2-00170370.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]


PLATE=7101 MJD=56628 sdR-r2-00170370.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 = 41




PLATE=7101 MJD=56628 sdR-r2-00170370.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 1.00 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass


PLATE=7101 MJD=56628 sdR-r2-00170370.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
1.30×10^4
1.25×10^4
1.20×10^4
1.15×10^4
1.10×10^4
RED = sky fiber
Dispersion = 0.87 %
0
100
200
300
400
500
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
1.095
1.100
1.105
1.110
1.115
1.120
Airmass