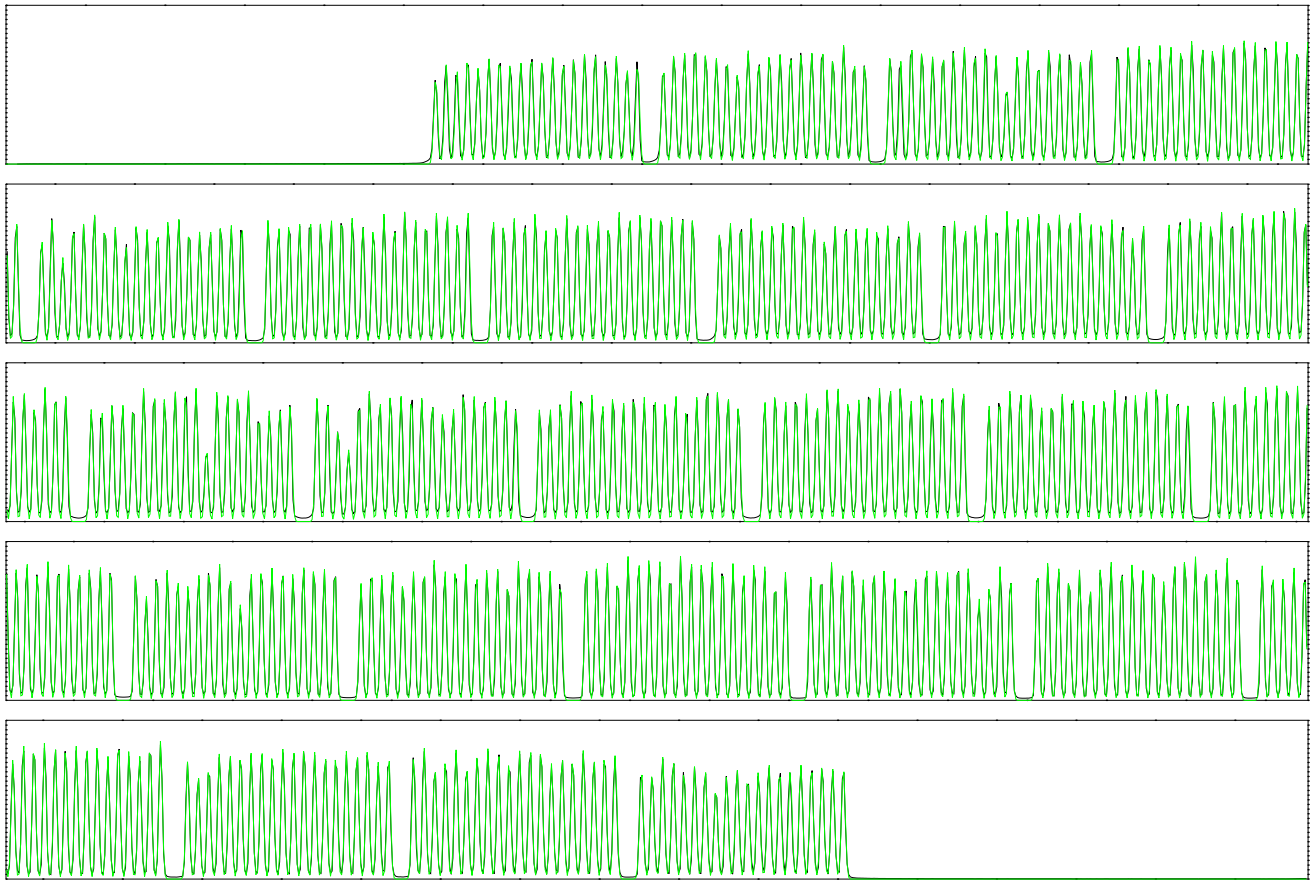
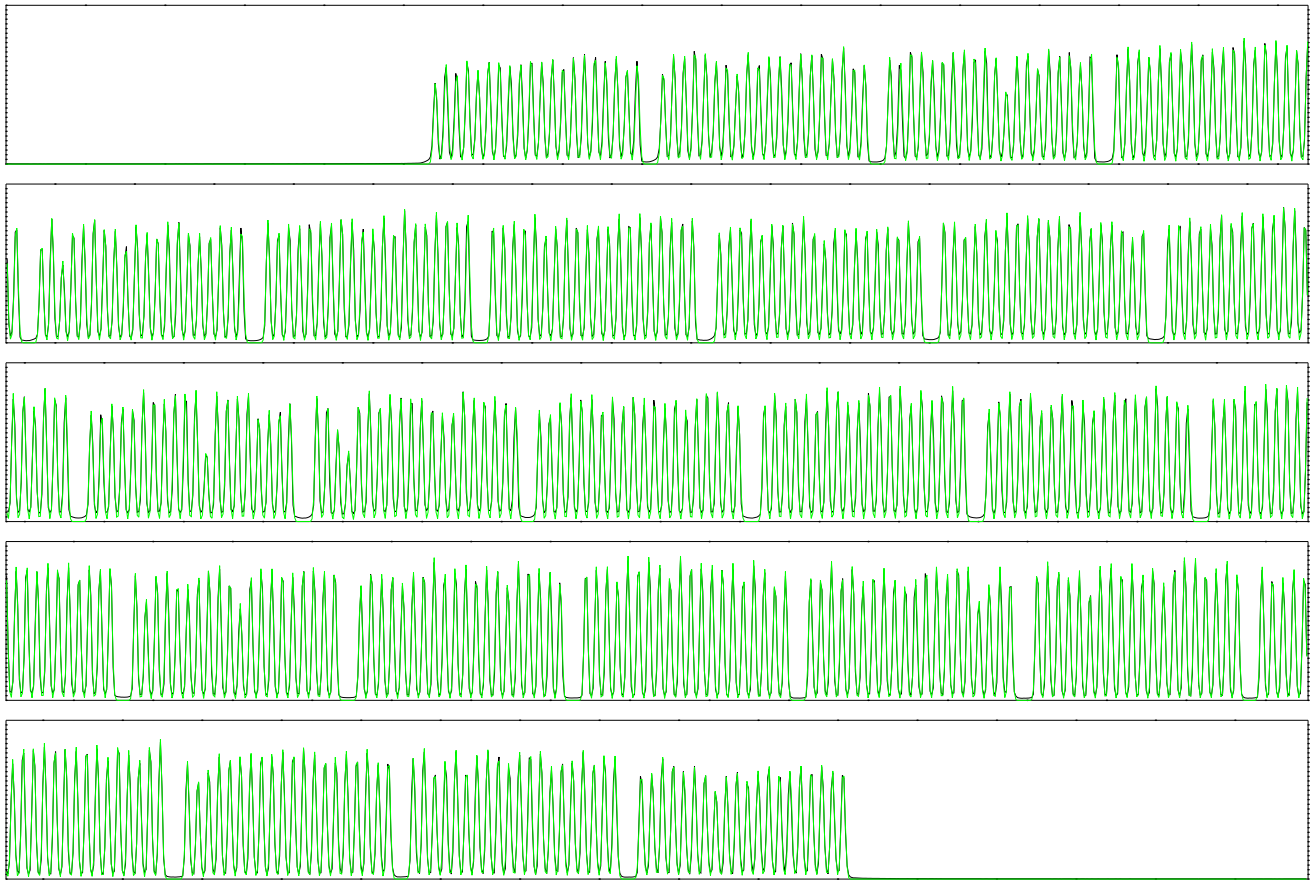
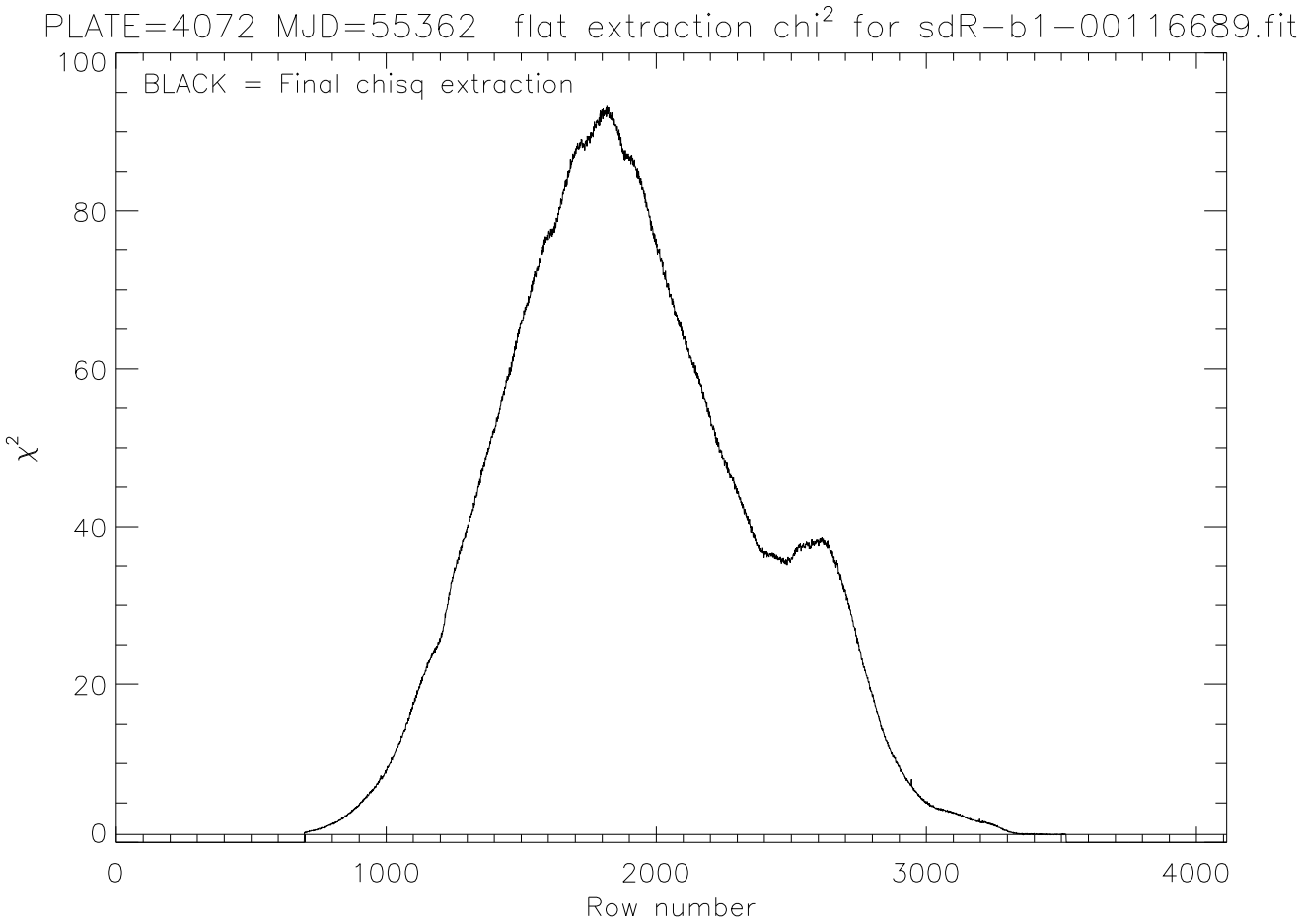
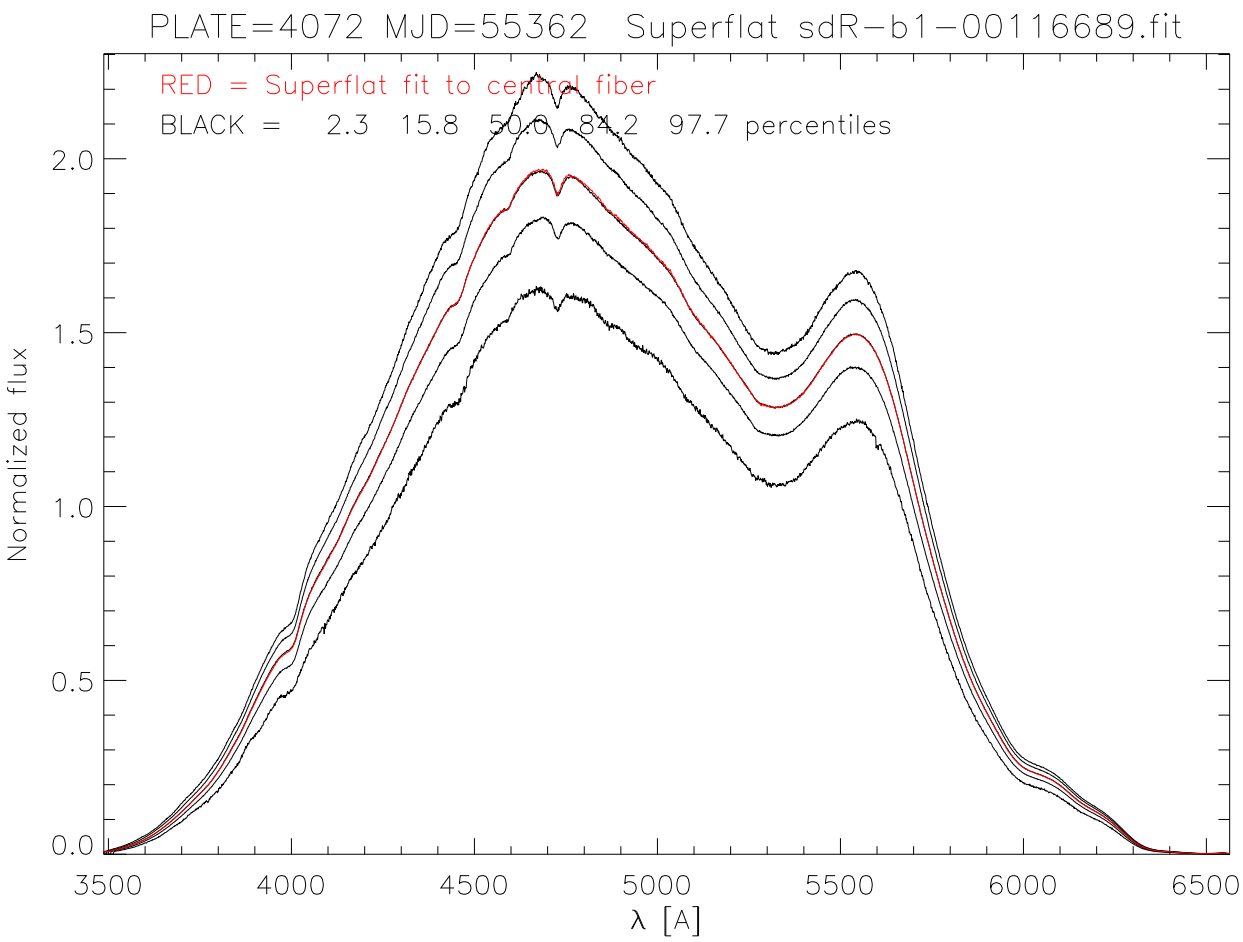
PLATE=4072 MJD=55362 Traces sdR-b1-00116689.fit

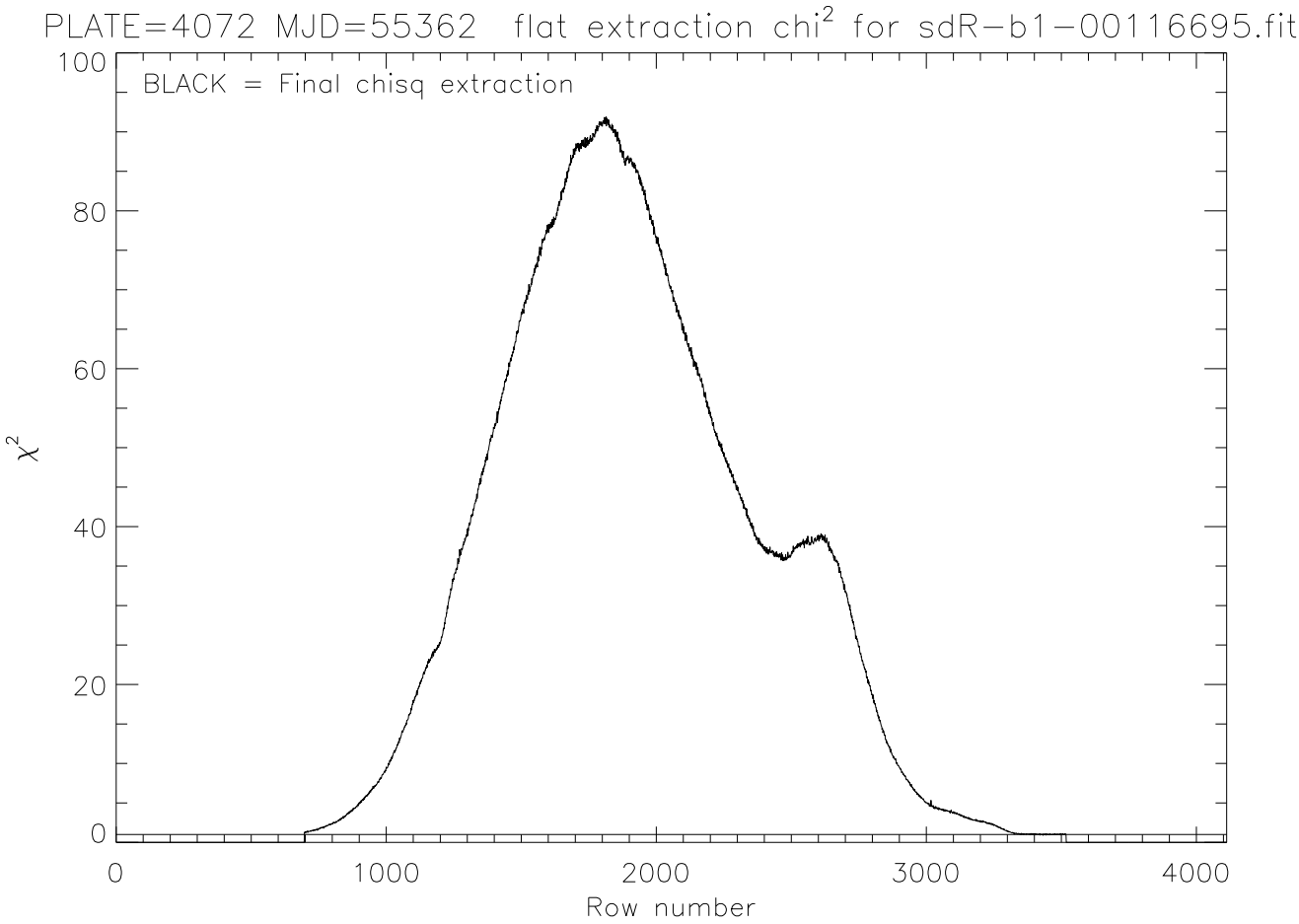


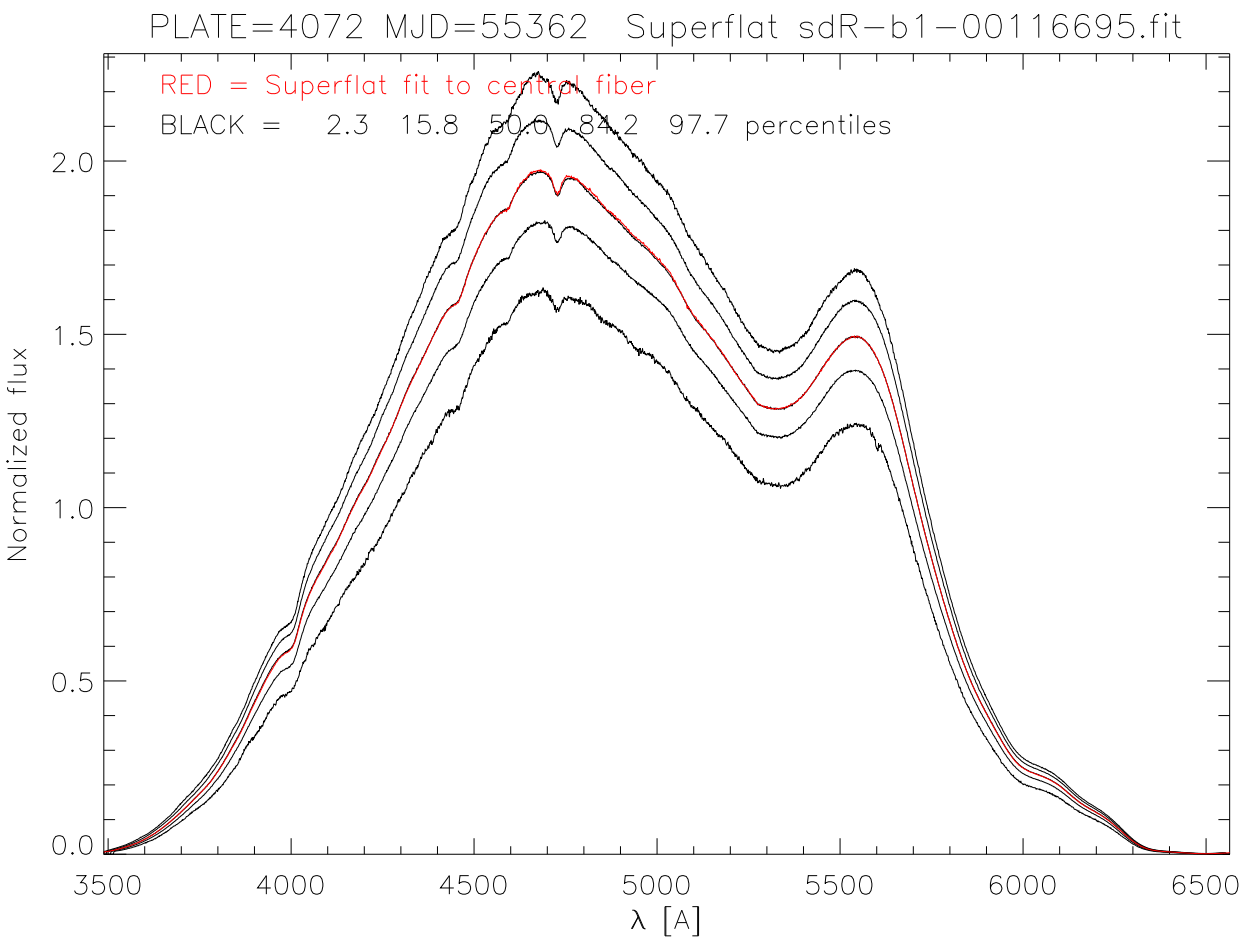
PLATE=4072 MJD=55362 Traces sdR-b1-00116695.fit

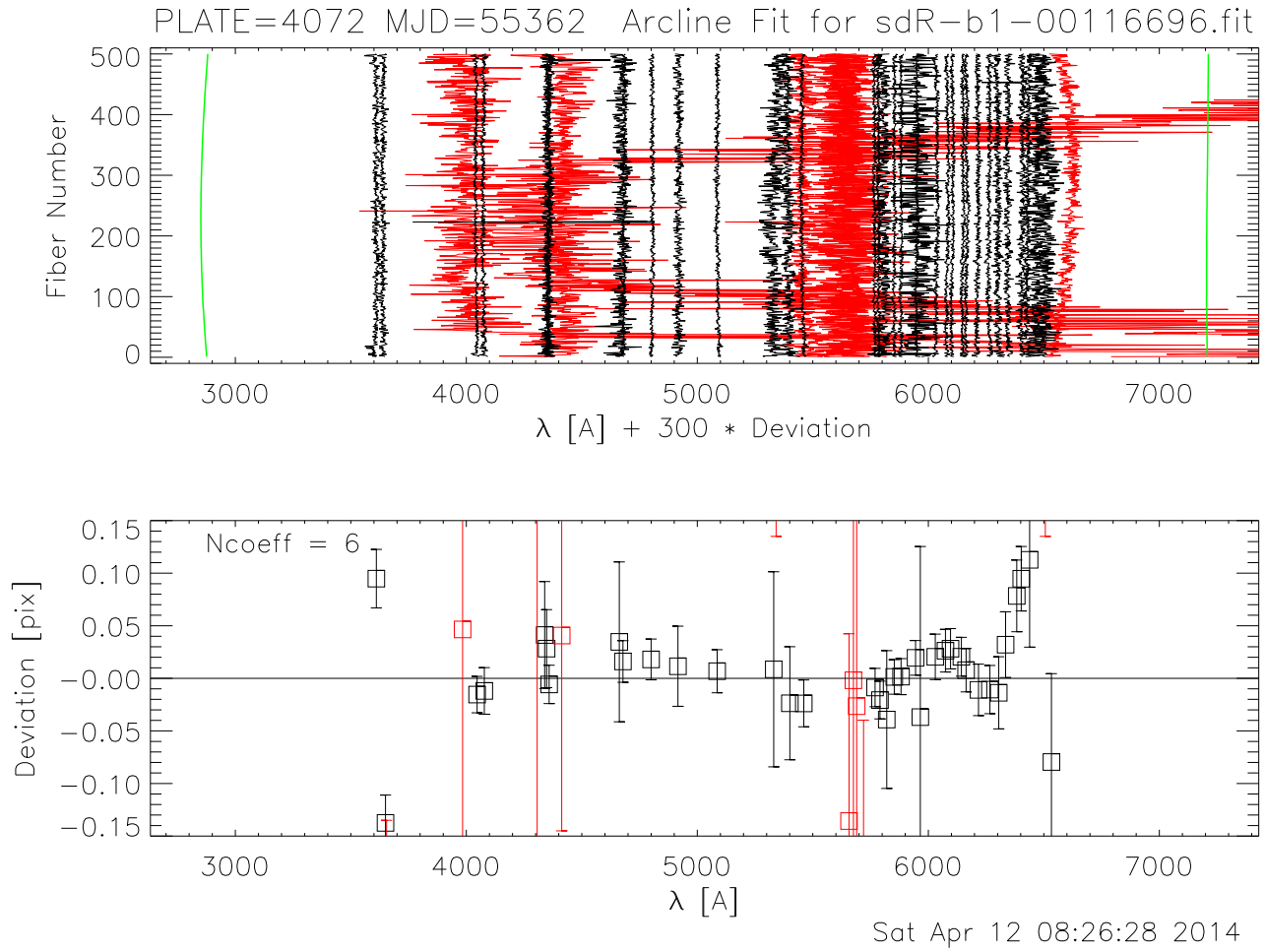



PLATE=4072 MJD=55362 flat extraction chi$^2$ for sdR−b1−00116689.fit
BLACK = Final chisq extraction
$\chi^2$
Row number
0
20
40
60
80
100
0
1000
2000
3000
4000

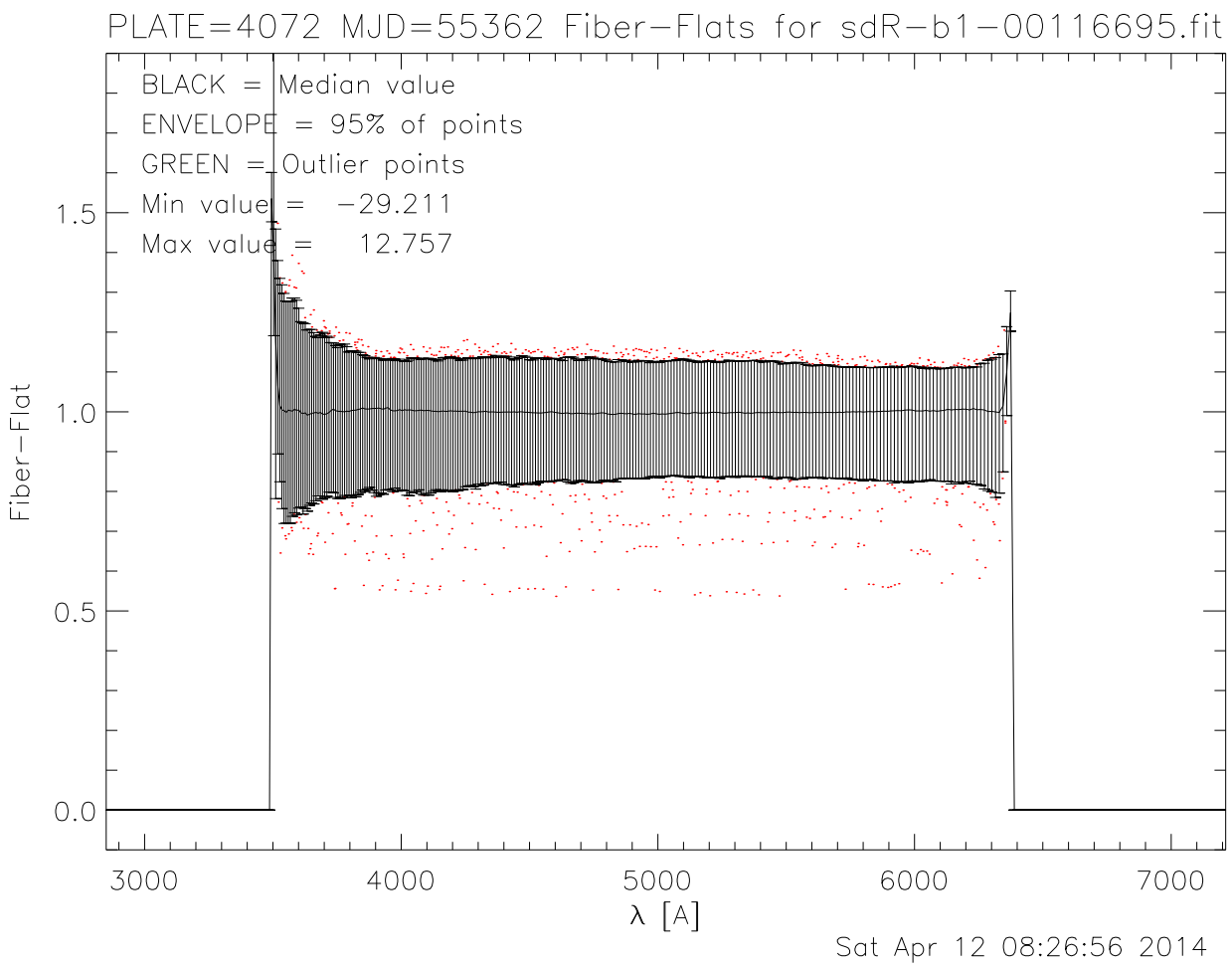

PLATE=4072 MJD=55362 Superflat sdR-b1-00116689.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
0.0
0.5
1.0
1.5
2.0
3500
4000
4500
5000
5500
6000
6500
λ [A]

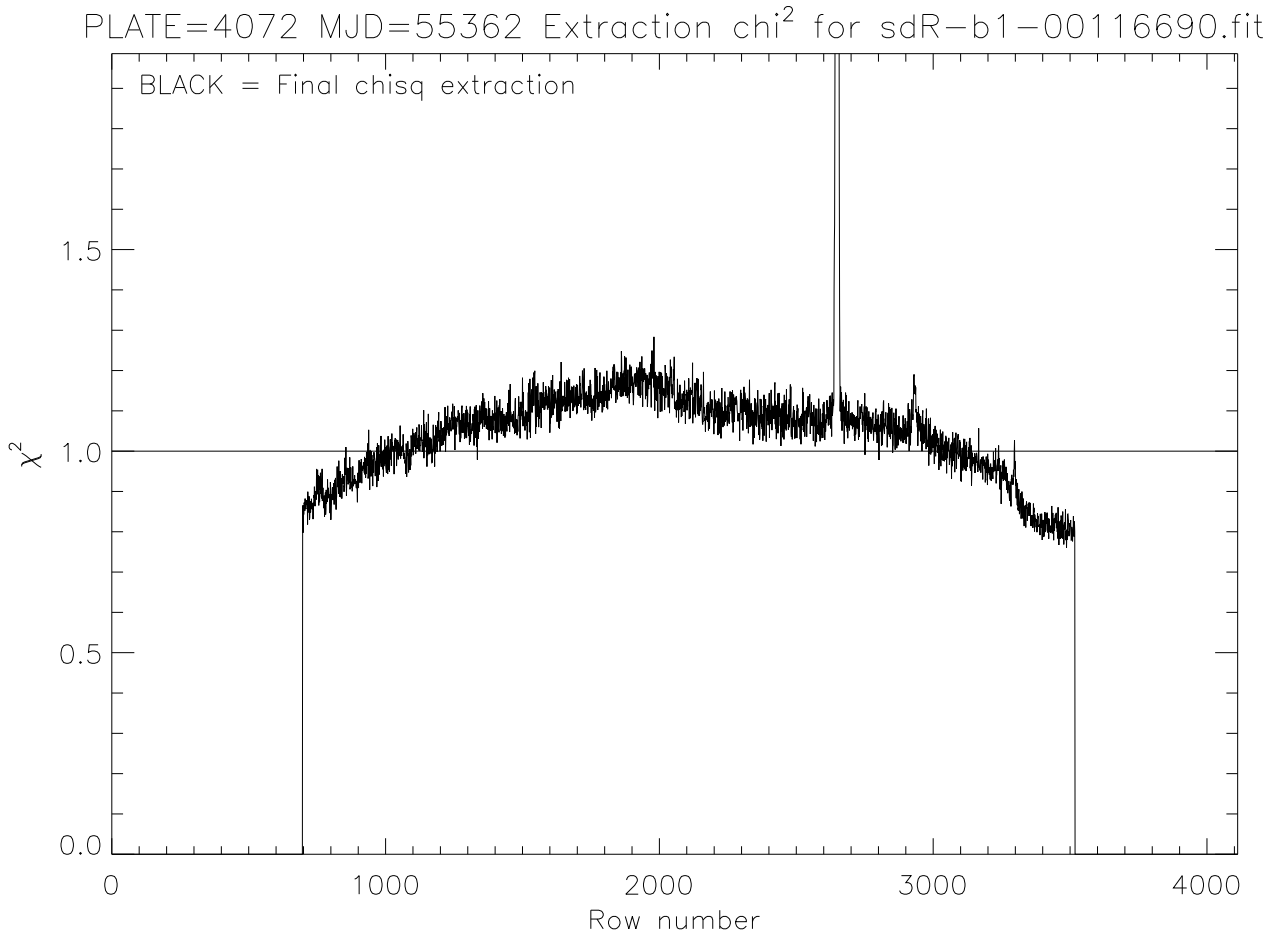

PLATE=4072 MJD=55362 flat extraction chi$^2$ for sdR−b1−00116695.fit
BLACK = Final chisq extraction
$\chi^2$
Row number
0
20
40
60
80
100
0
1000
2000
3000
4000

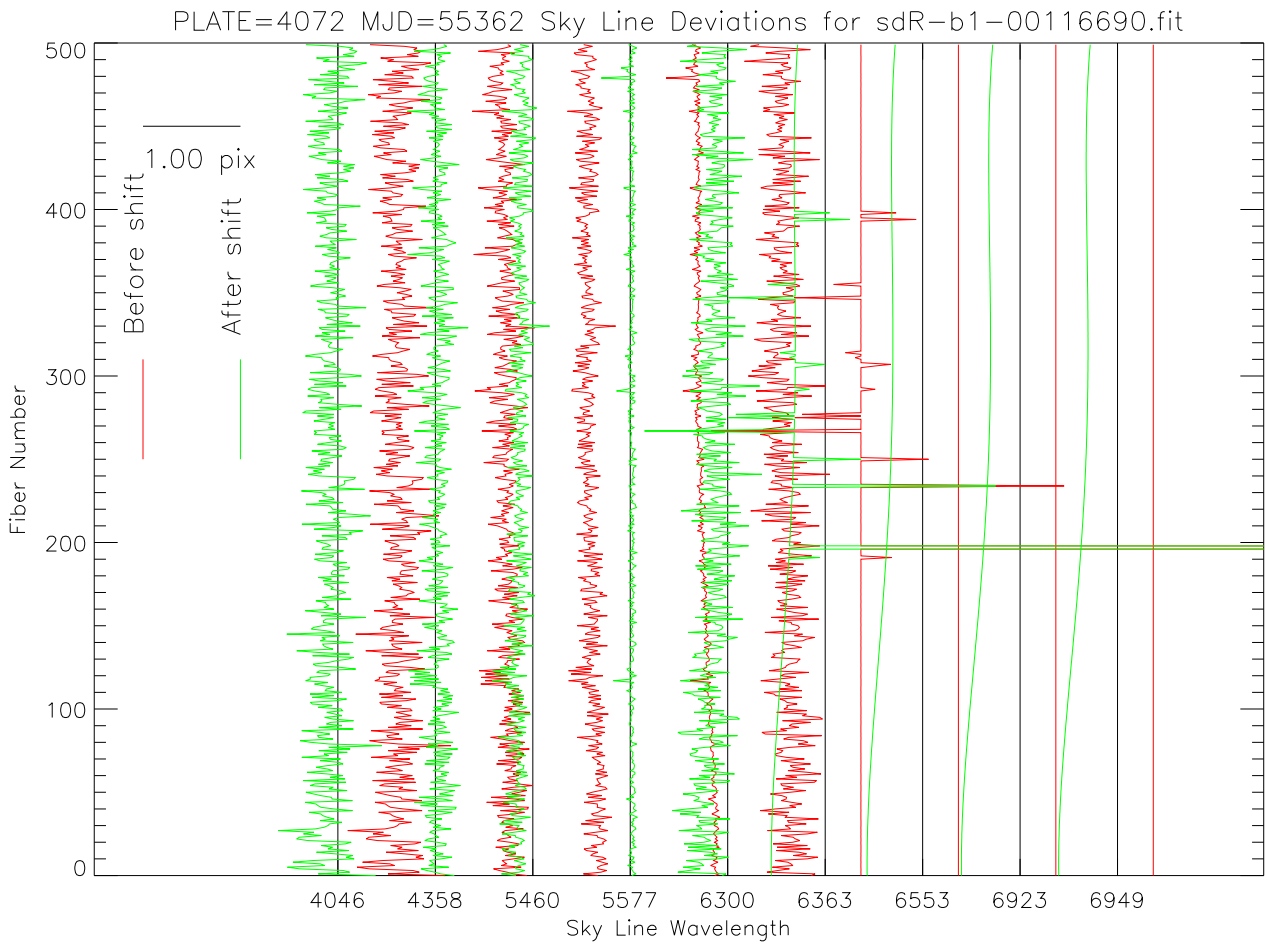

PLATE=4072 MJD=55362 Superflat sdR-b1-00116695.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
0.0
0.5
1.0
1.5
2.0
3500
4000
4500
5000
5500
6000
6500
λ [A]

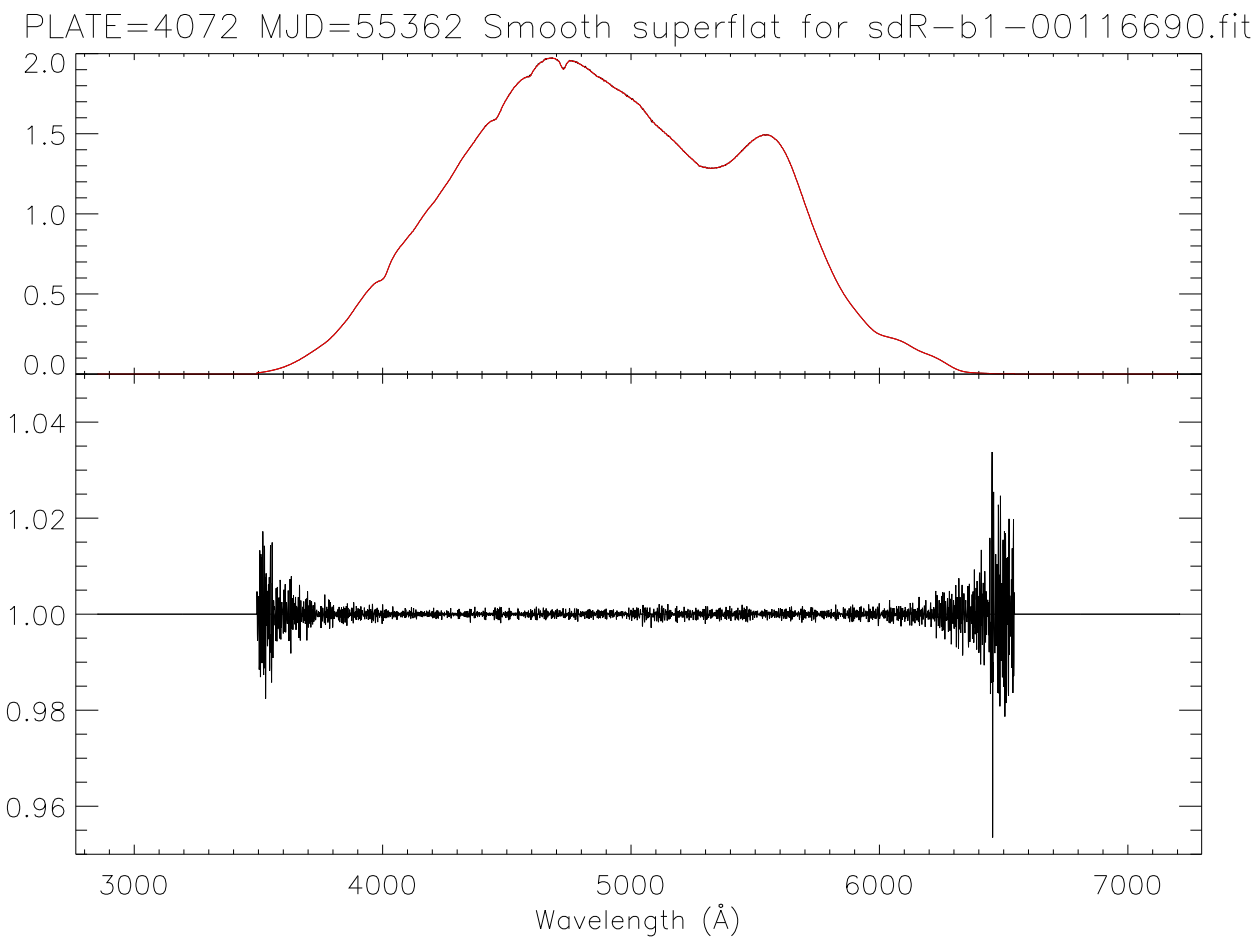

PLATE=4072 MJD=55362 Arcline Fit for sdR-b1-00116696.fit
Fiber Number
500
400
300
200
100
0
3000
4000
5000
6000
7000
λ [A] + 300 * Deviation

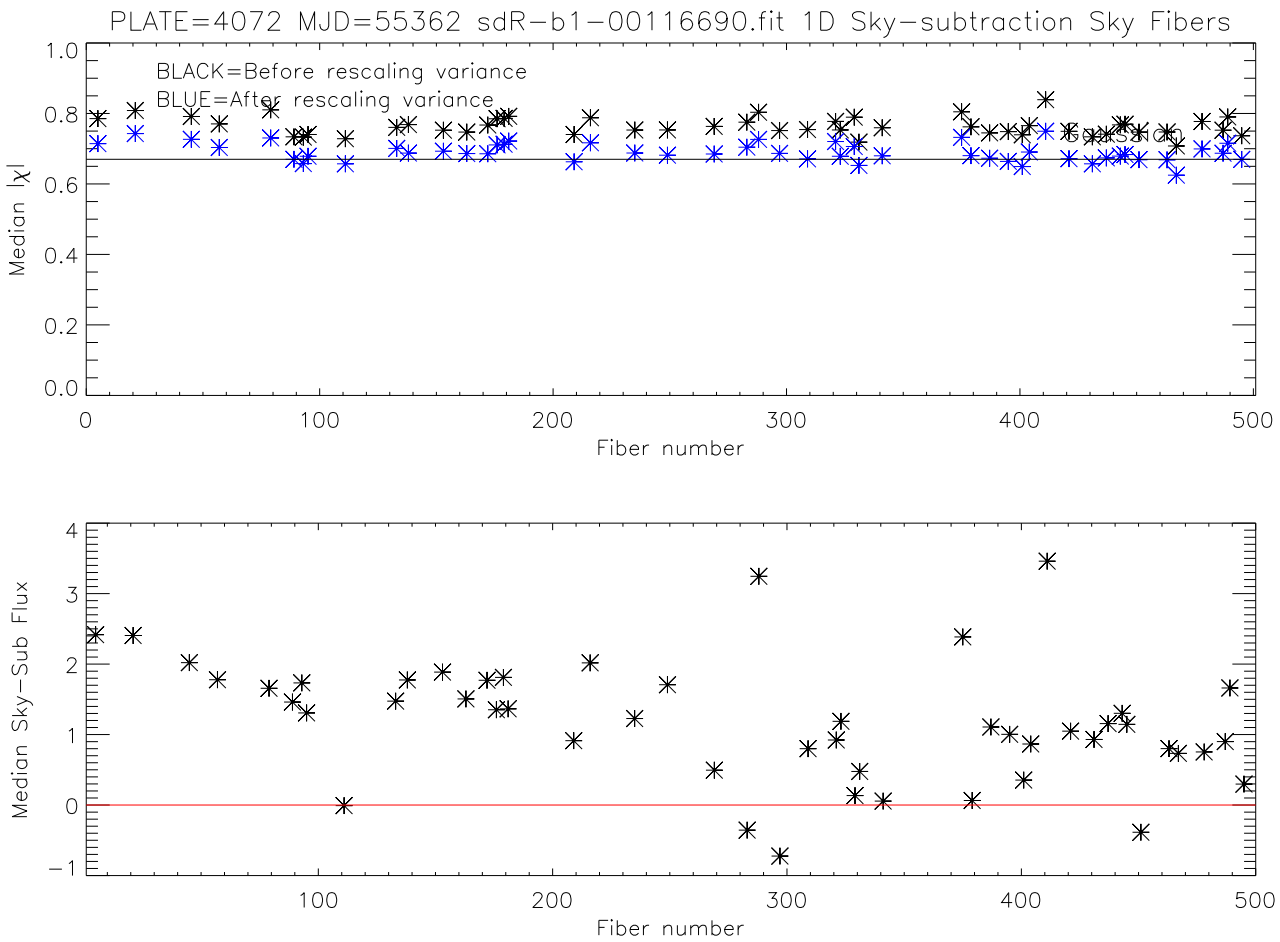

Ncoeff = 6
Deviation [pix]
0.15
0.10
0.05
−0.00
−0.05
−0.10
−0.15
3000
4000
5000
6000
7000
λ [A]
Sat Apr 12 08:26:28 2014

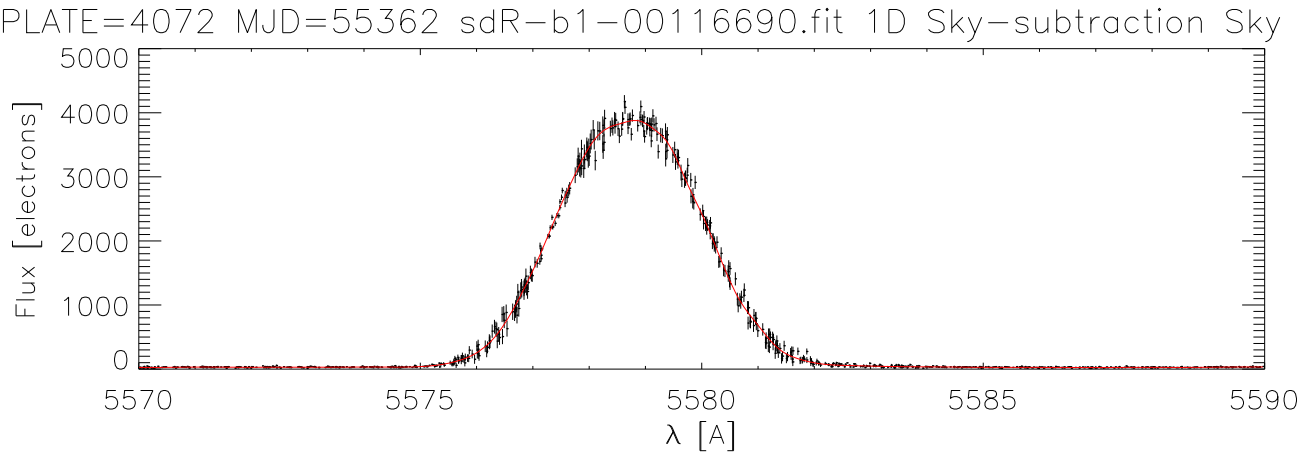

PLATE=4072 MJD=55362 Fiber−Flats for sdR−b1−00116695.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −29.211
Max value = 12.757
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sat Apr 12 08:26:56 2014

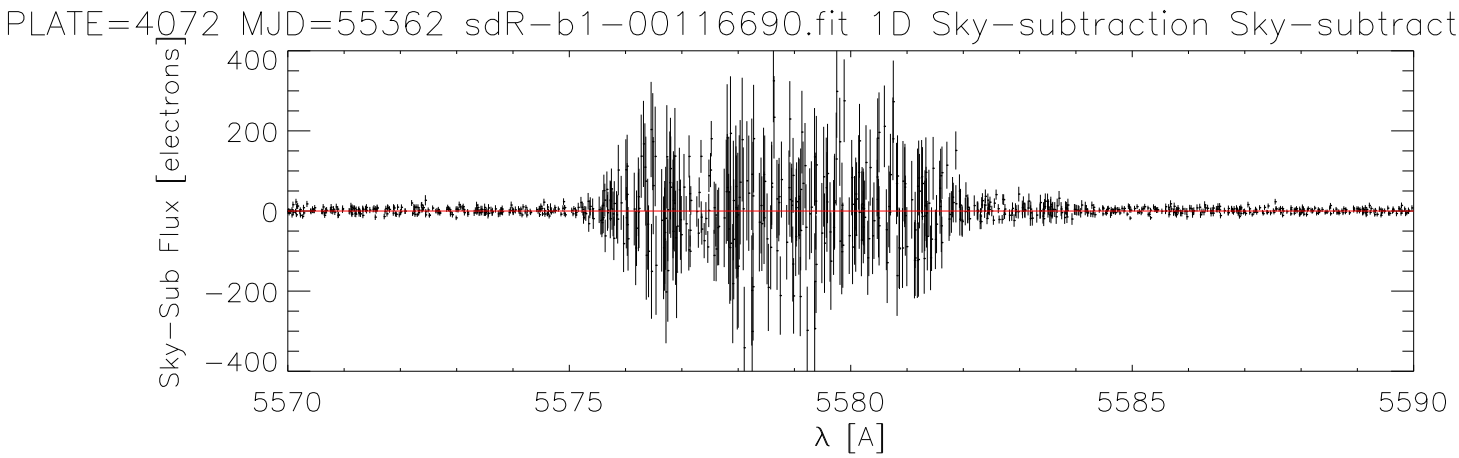

PLATE=4072 MJD=55362 Extraction chi$^2$ for sdR−b1−00116690.fit
BLACK = Final chisq extraction
$\chi^2$
0.0
0.5
1.0
1.5
0
1000
2000
3000
4000
Row number


PLATE=4072 MJD=55362 Sky Line Deviations for sdR-b1-00116690.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

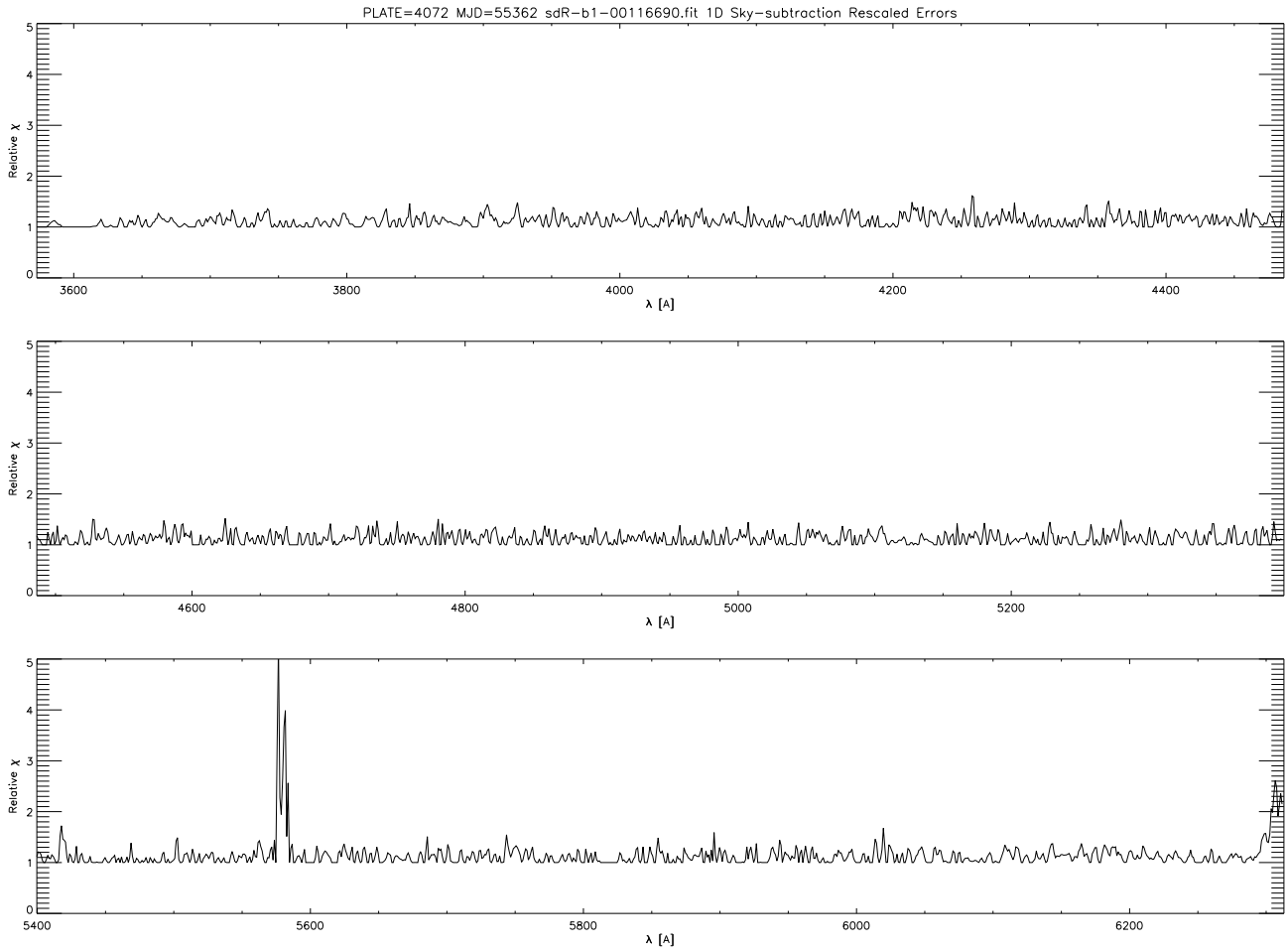

PLATE=4072 MJD=55362 Smooth superflat for sdR-b1-00116690.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

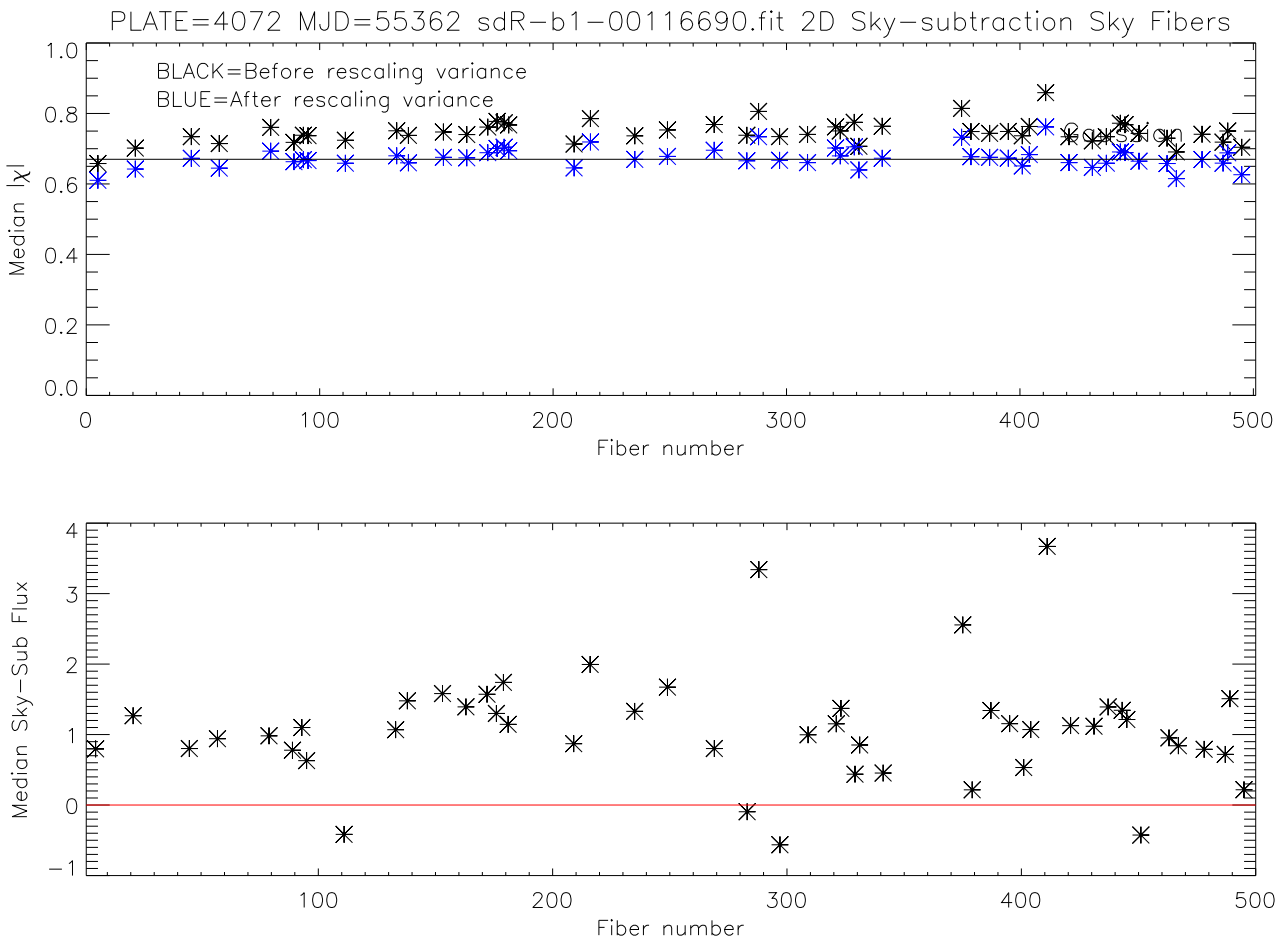

PLATE=4072 MJD=55362 sdR-b1-00116690.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

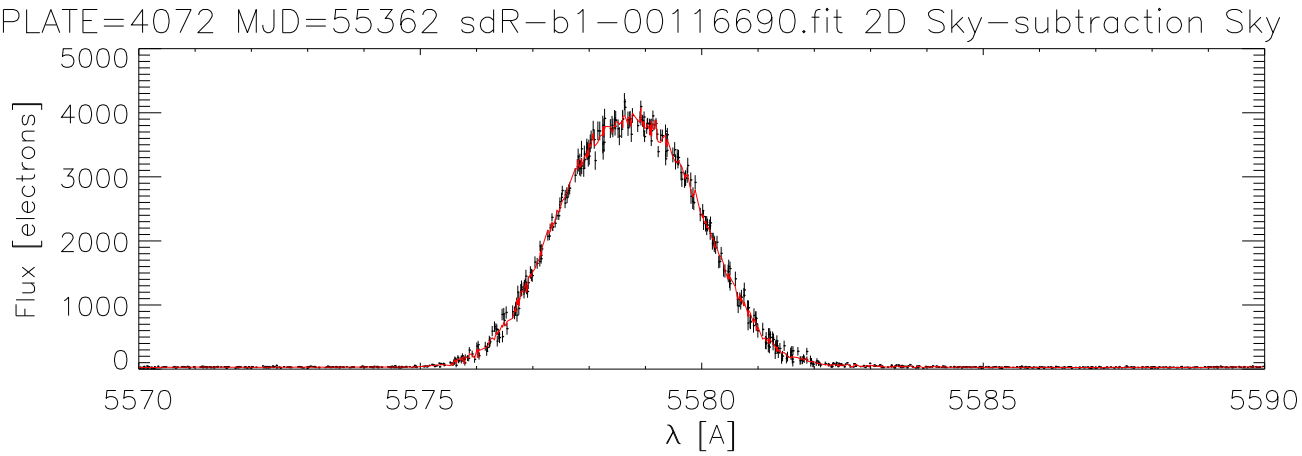

PLATE=4072 MJD=55362 sdR-b1-00116690.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

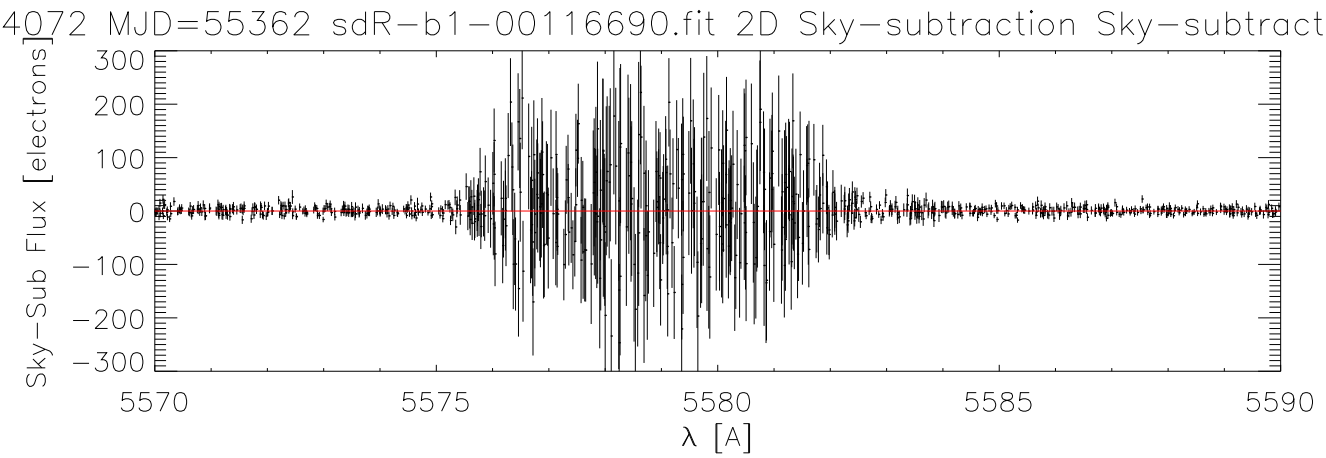

PLATE=4072 MJD=55362 sdR-b1-00116690.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 50

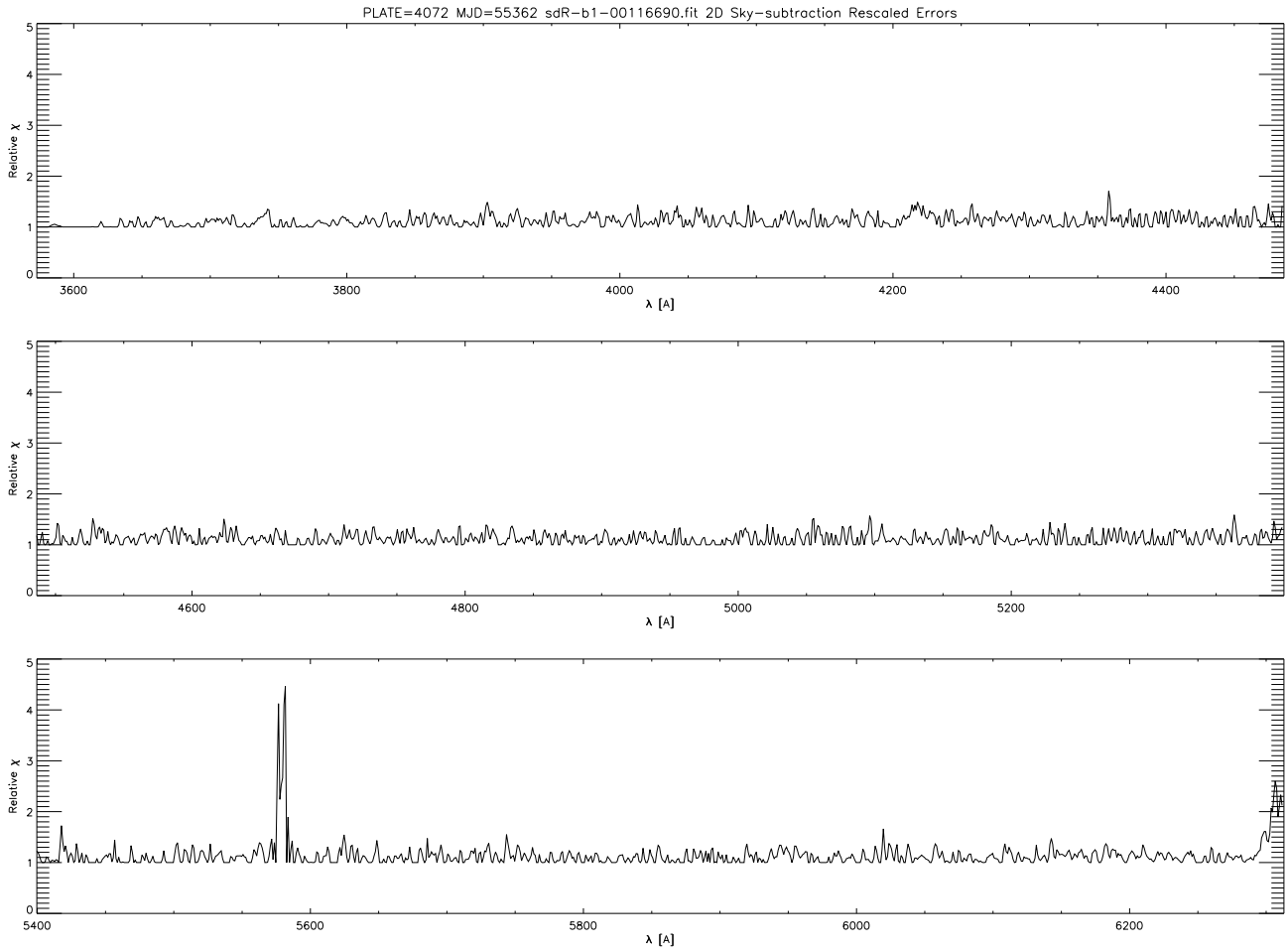


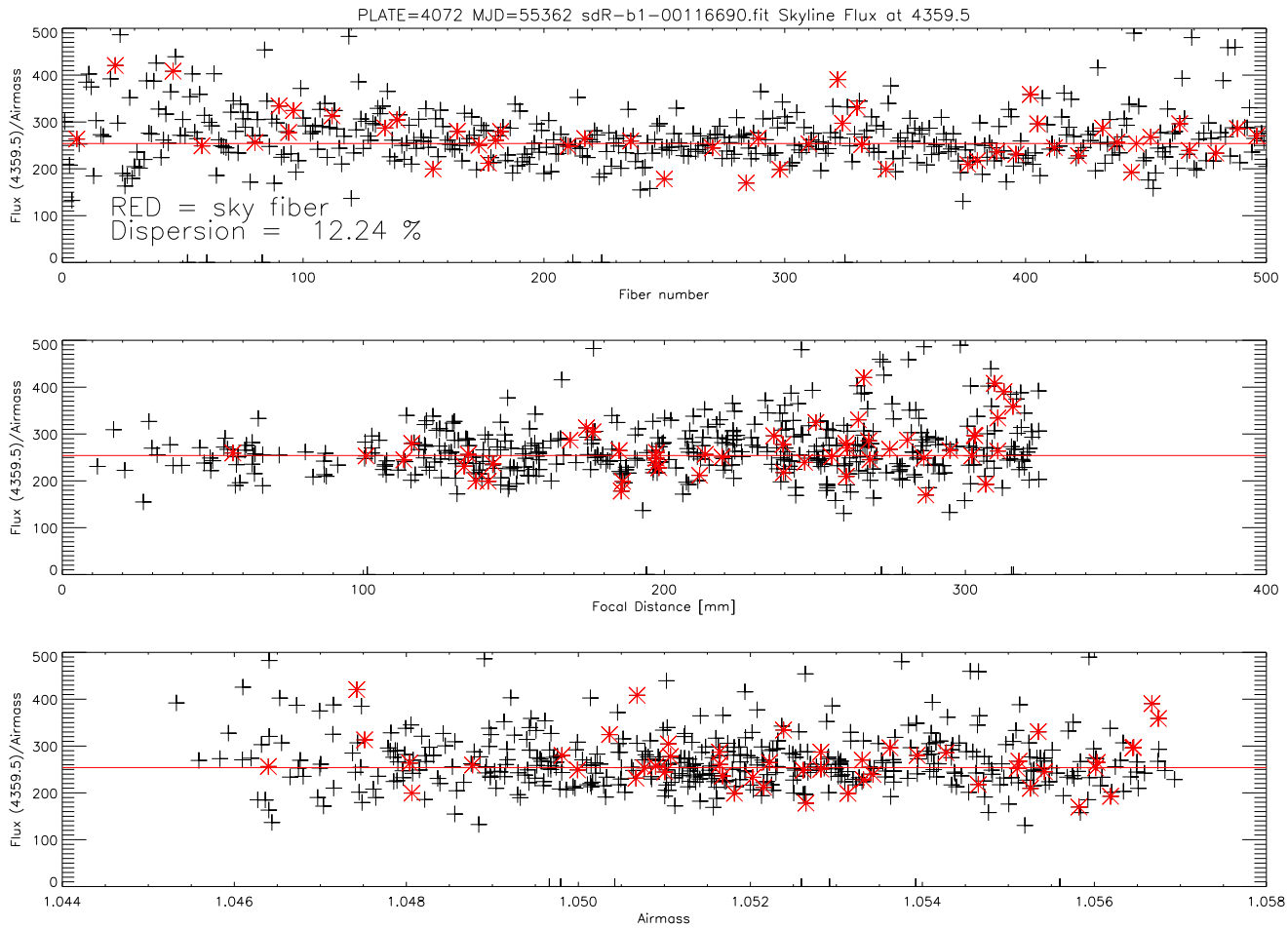

PLATE=4072 MJD=55362 sdR-b1-00116690.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

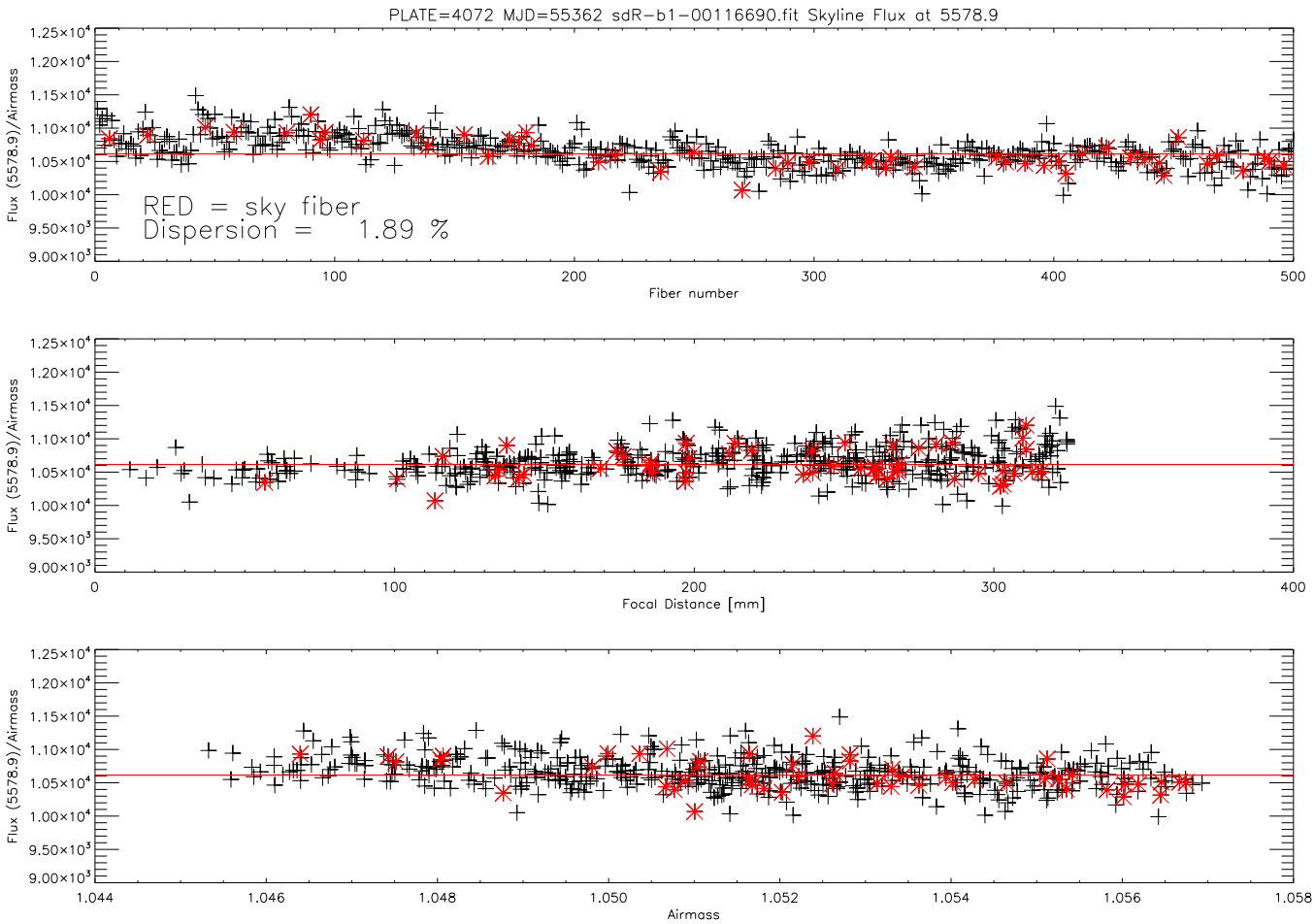

PLATE=4072 MJD=55362 sdR-b1-00116690.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

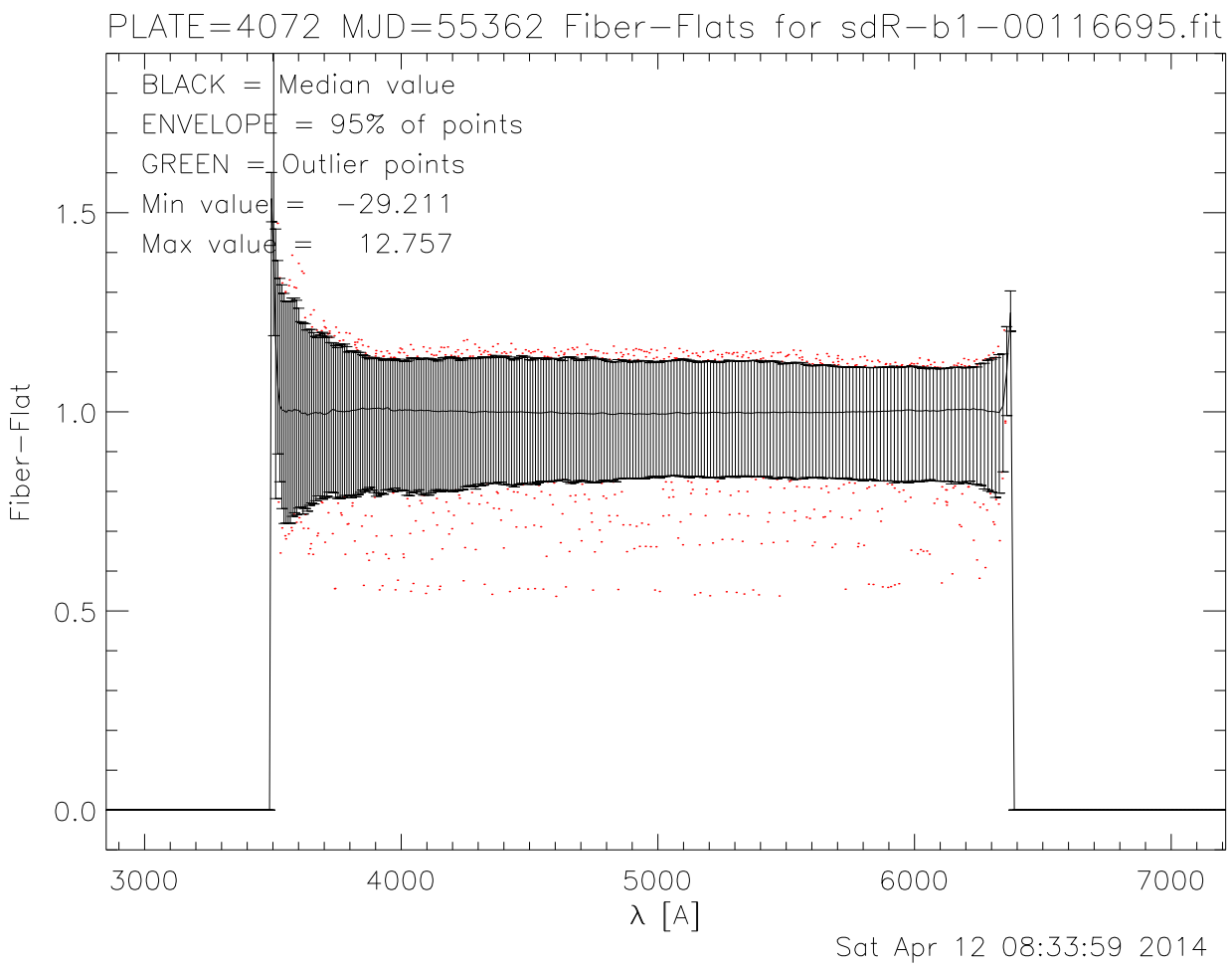

PLATE=4072 MJD=55362 sdR-b1-00116690.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

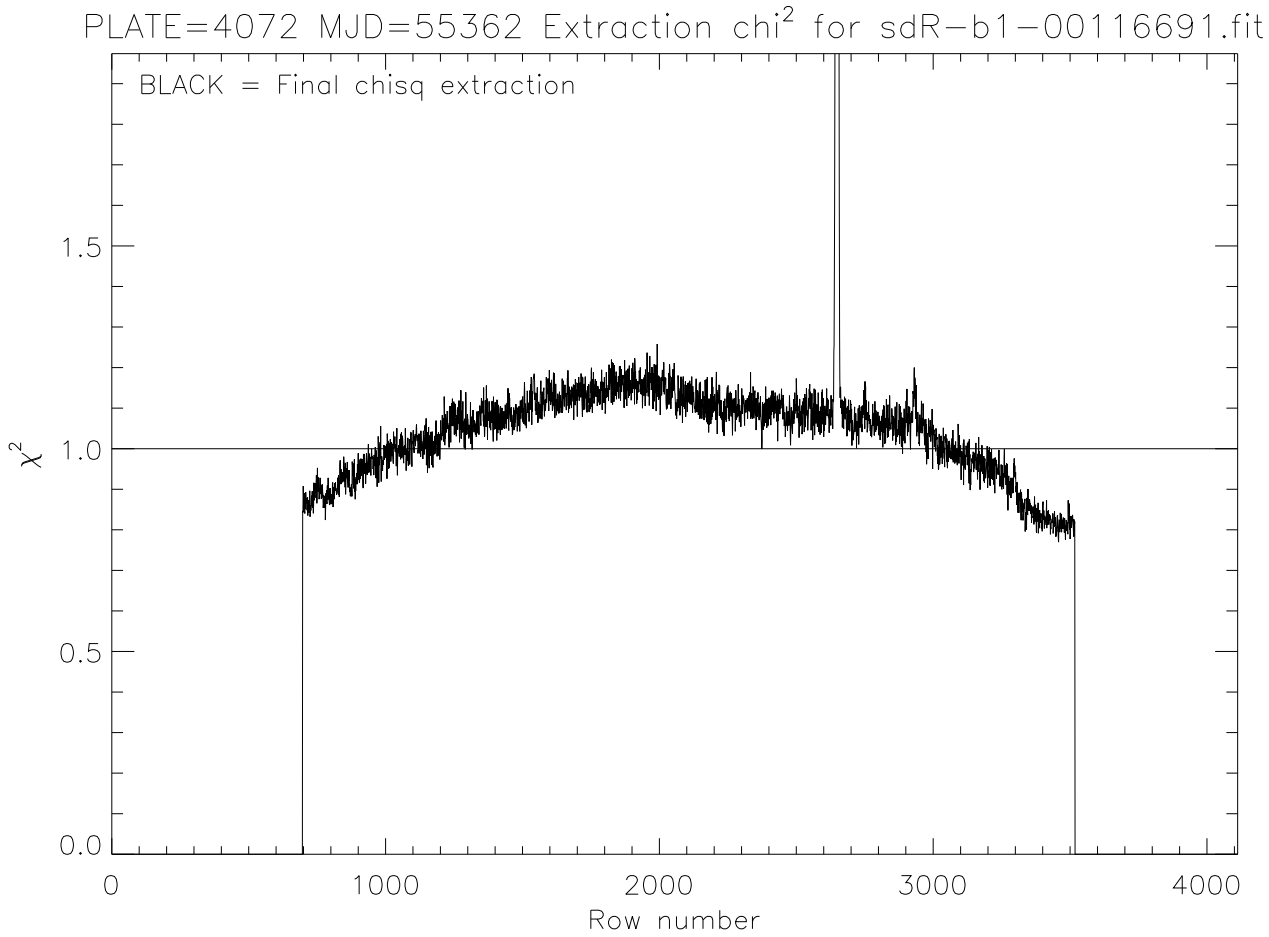
Number of sky fibers = 50

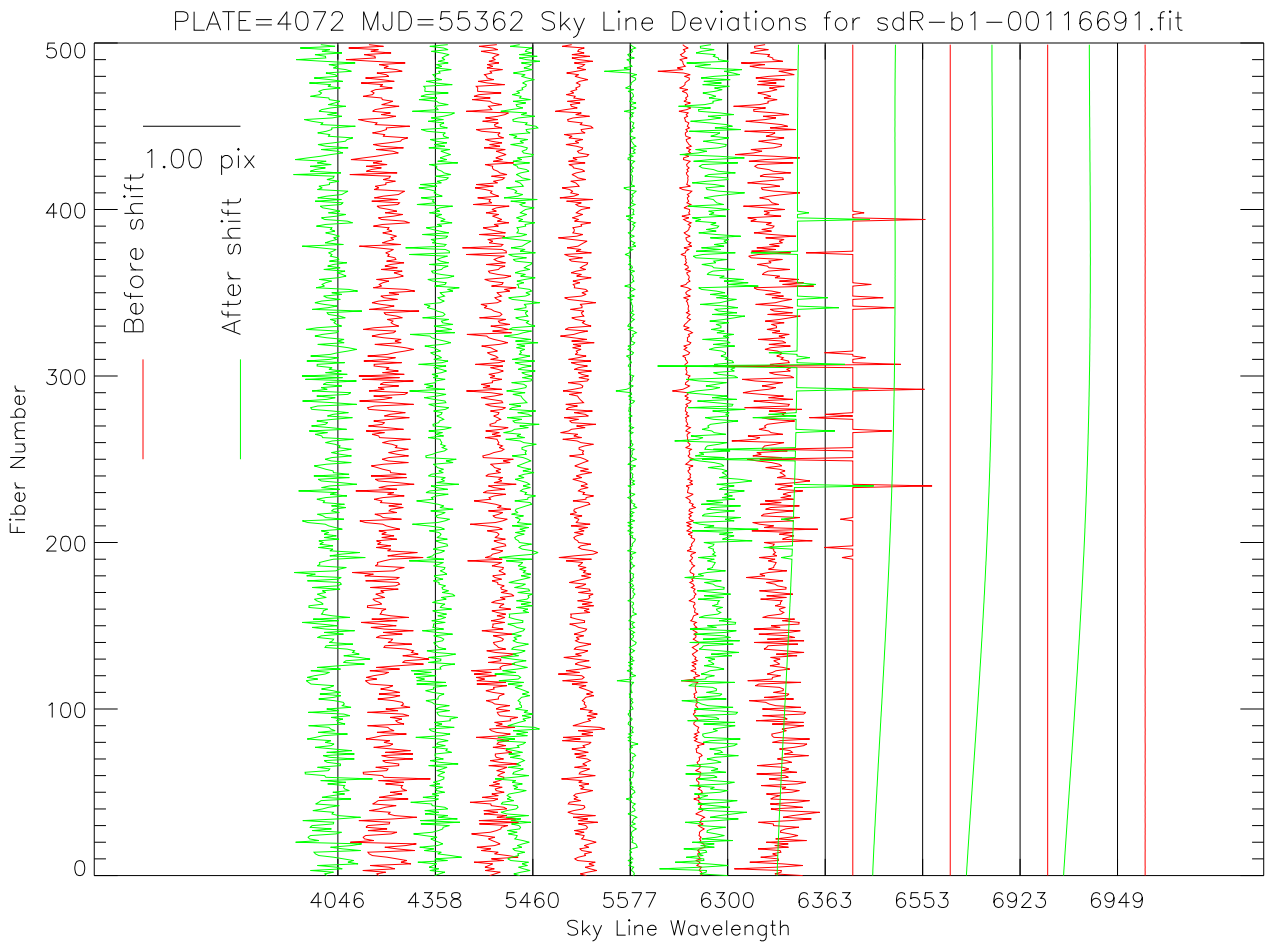


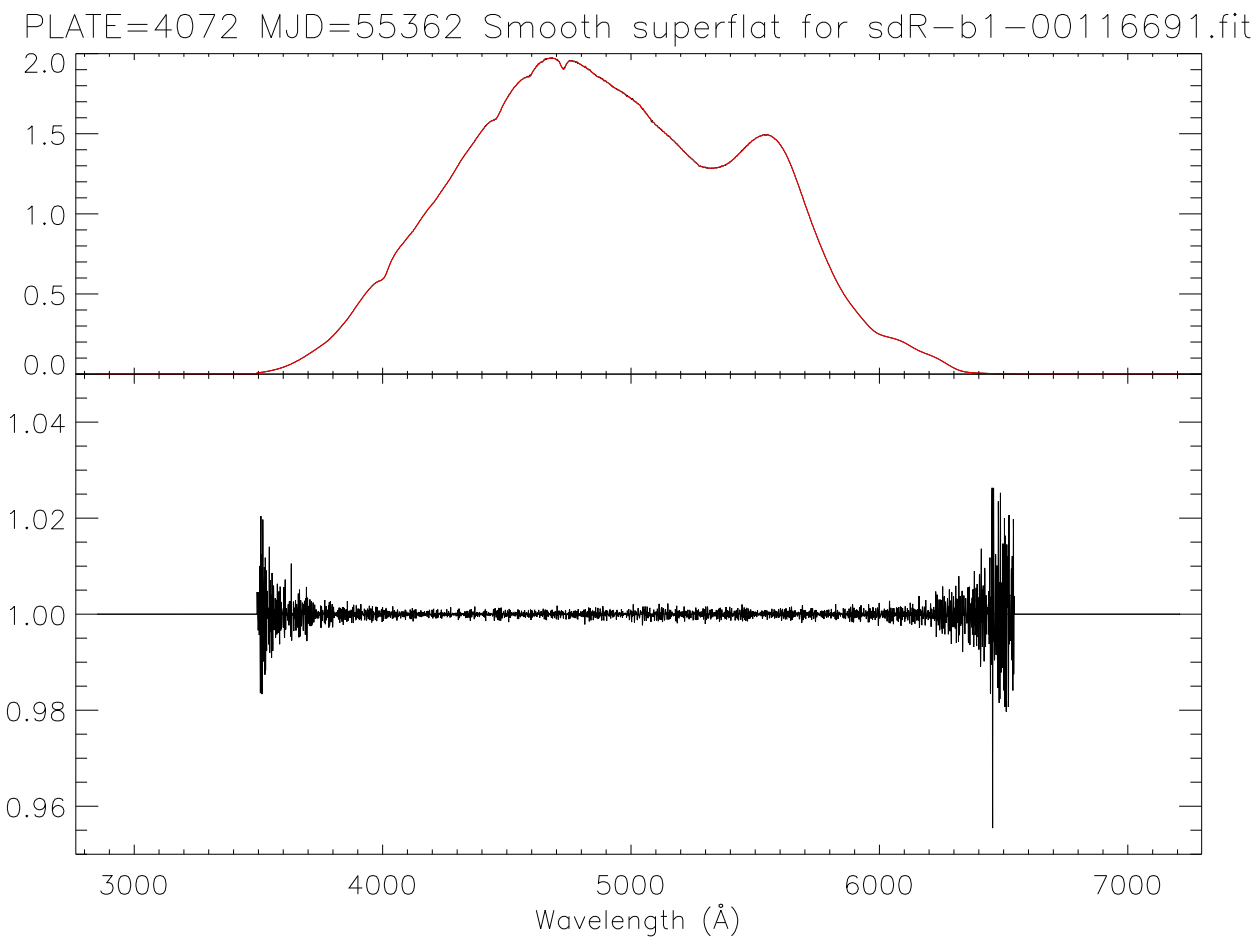

PLATE=4072 MJD=55362 sdR-b1-00116690.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 12.24 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

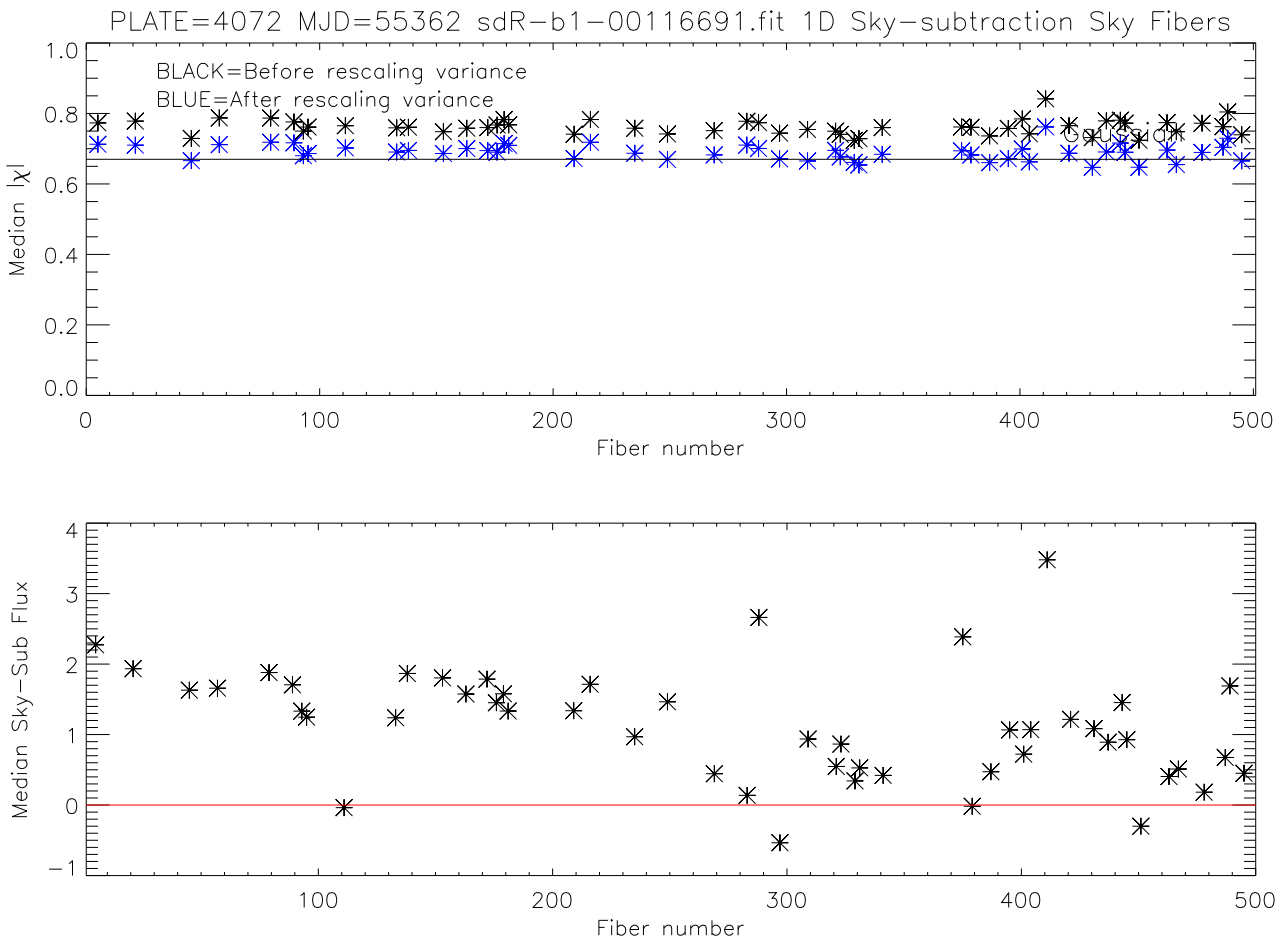

PLATE=4072 MJD=55362 sdR-b1-00116690.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.89 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

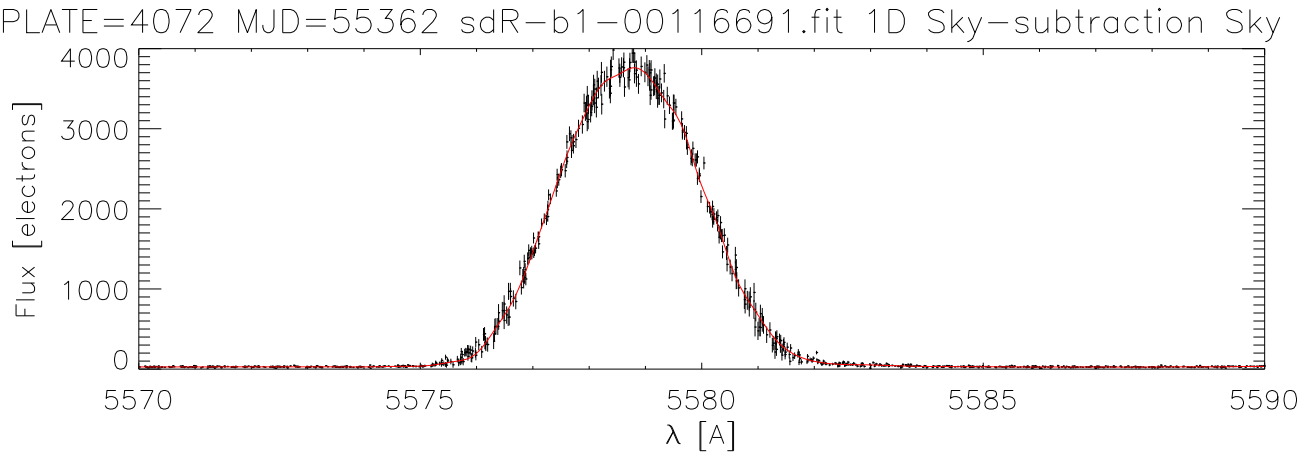

PLATE=4072 MJD=55362 Fiber−Flats for sdR−b1−00116695.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −29.211
Max value = 12.757
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sat Apr 12 08:33:59 2014

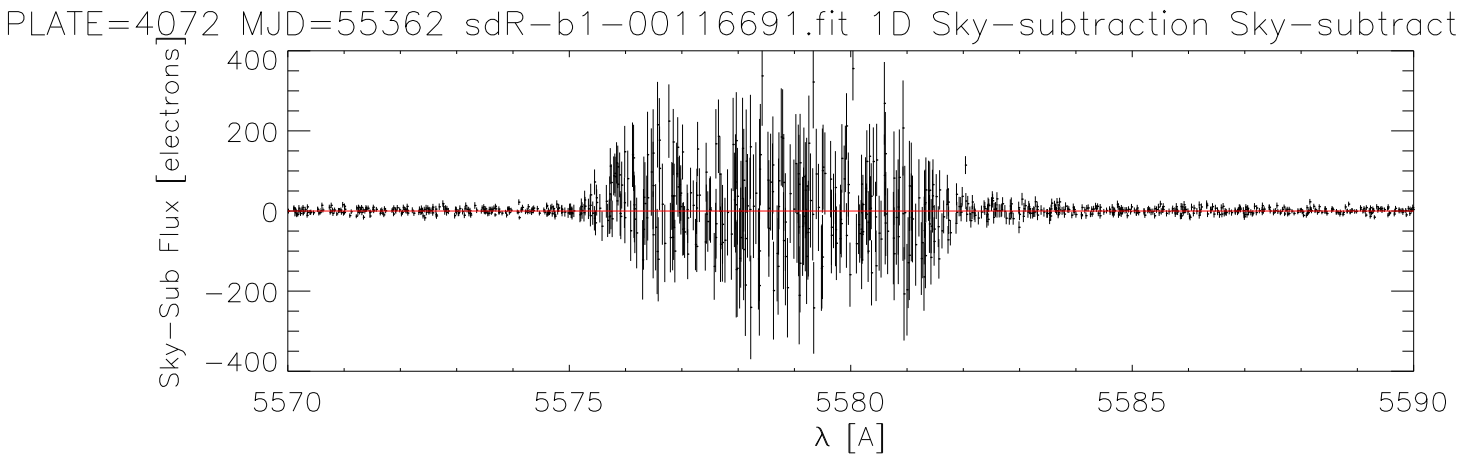

PLATE=4072 MJD=55362 Extraction chi$^2$ for sdR−b1−00116691.fit
BLACK = Final chisq extraction
$\chi^2$
1.5
1.0
0.5
0.0
0
1000
2000
3000
4000
Row number


PLATE=4072 MJD=55362 Sky Line Deviations for sdR-b1-00116691.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

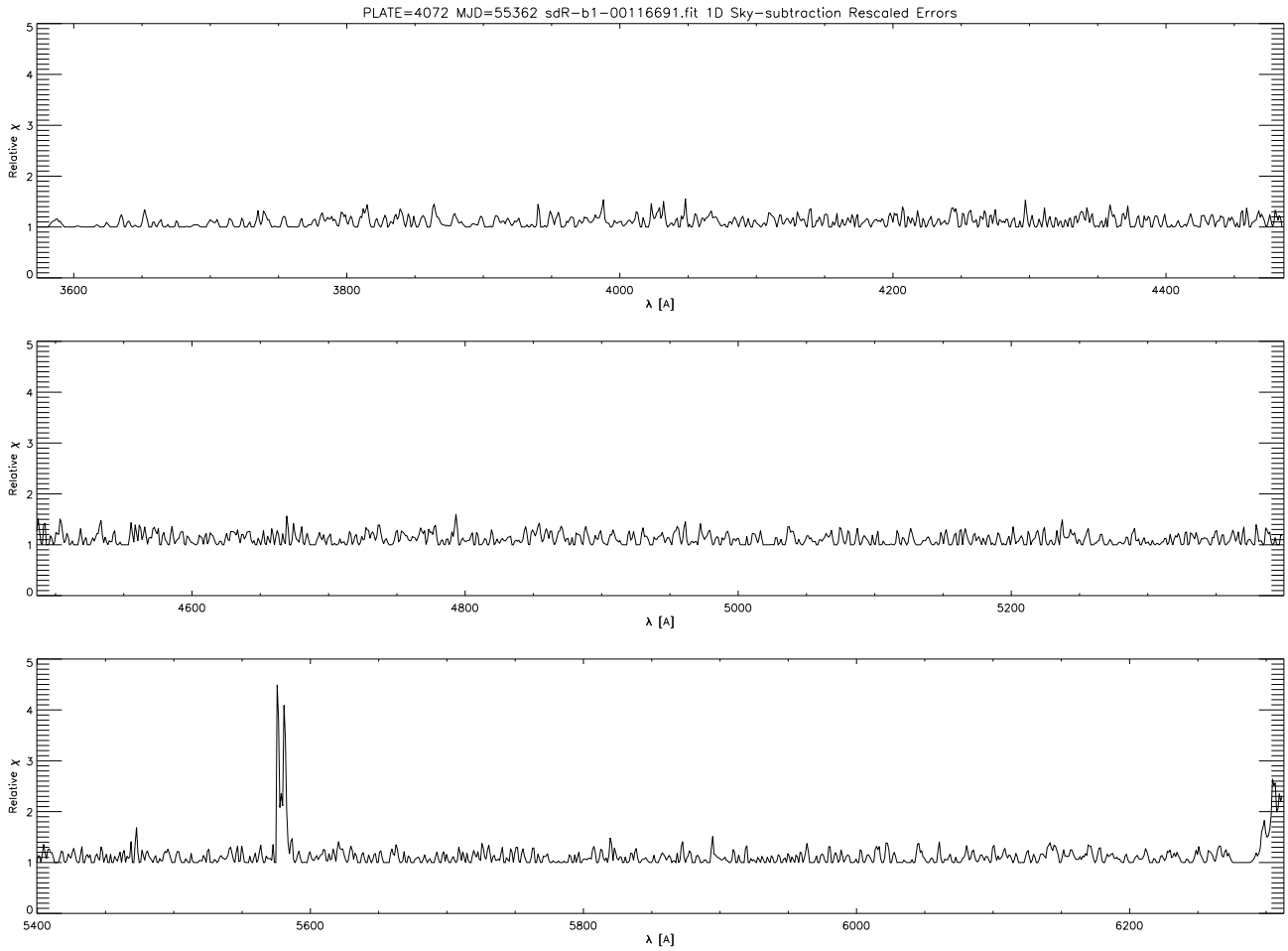

PLATE=4072 MJD=55362 Smooth superflat for sdR-b1-00116691.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

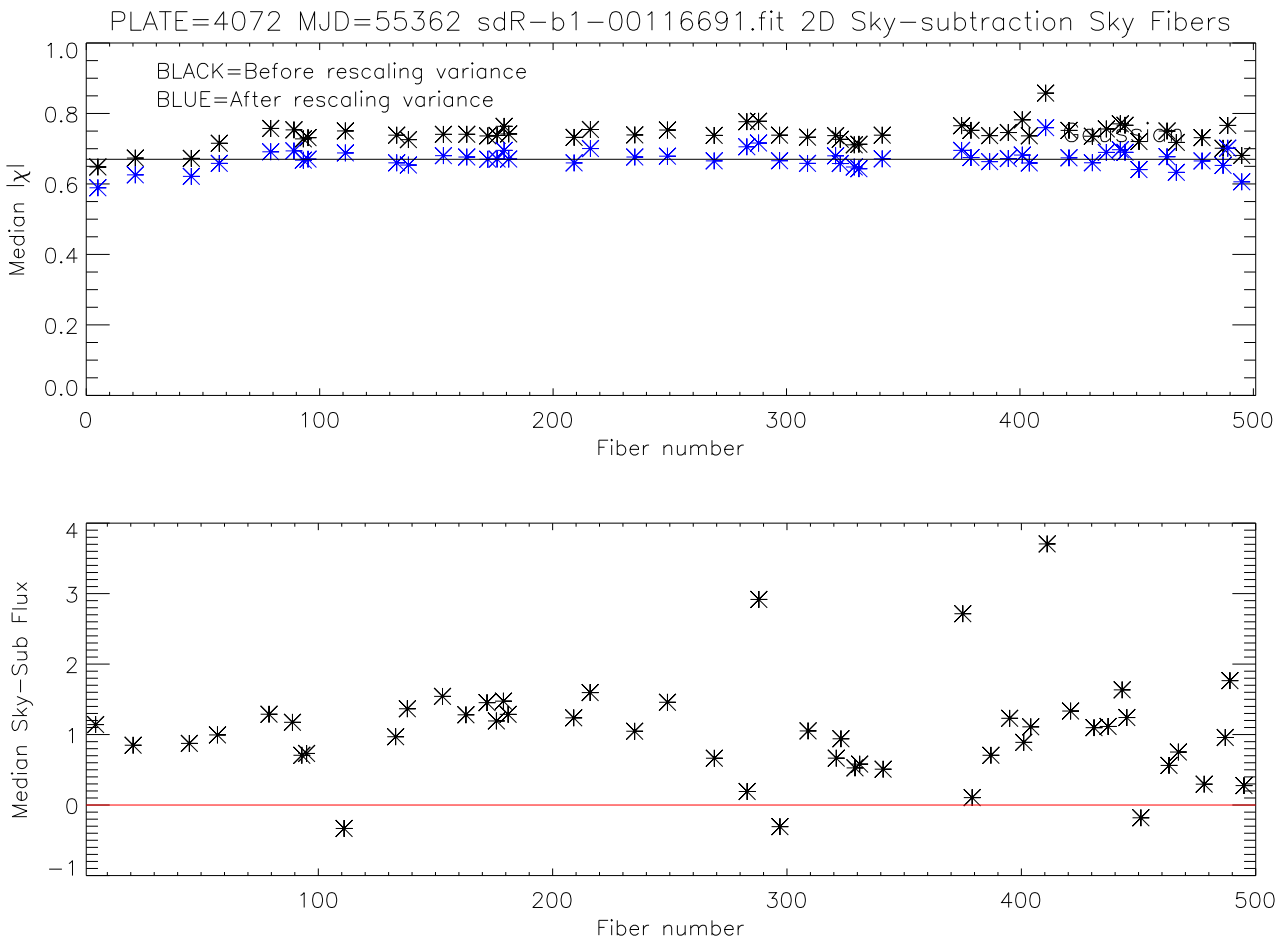

PLATE=4072 MJD=55362 sdR-b1-00116691.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

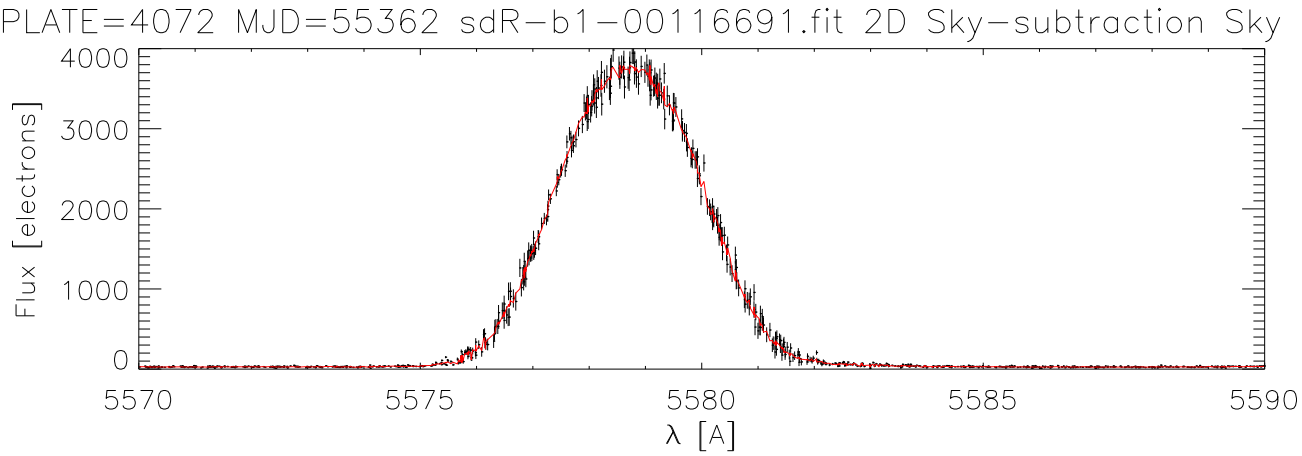

PLATE=4072 MJD=55362 sdR-b1-00116691.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

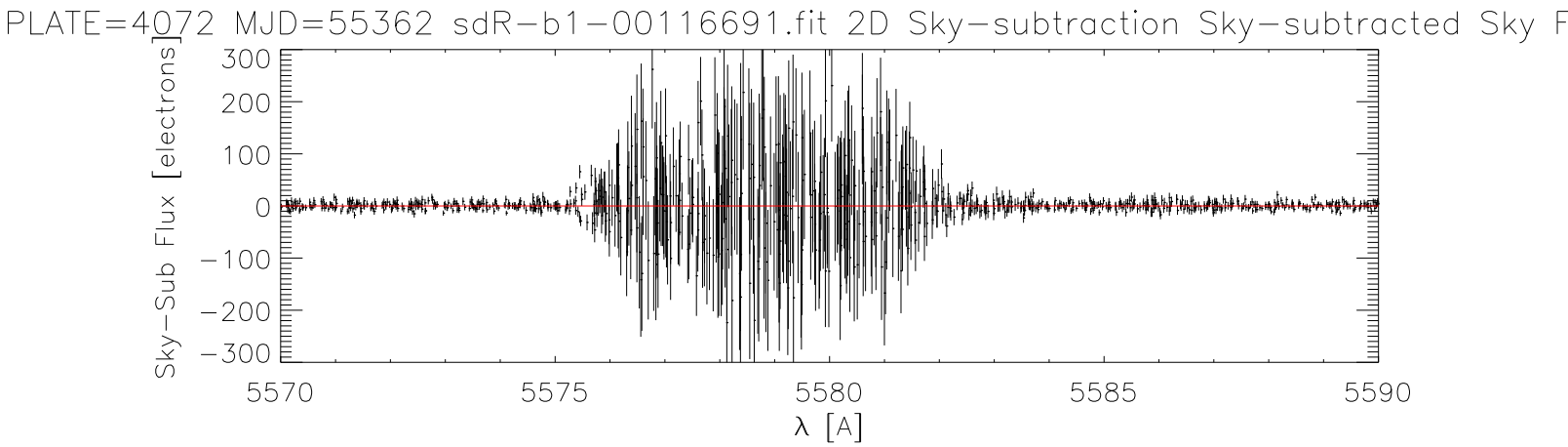

PLATE=4072 MJD=55362 sdR-b1-00116691.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 50

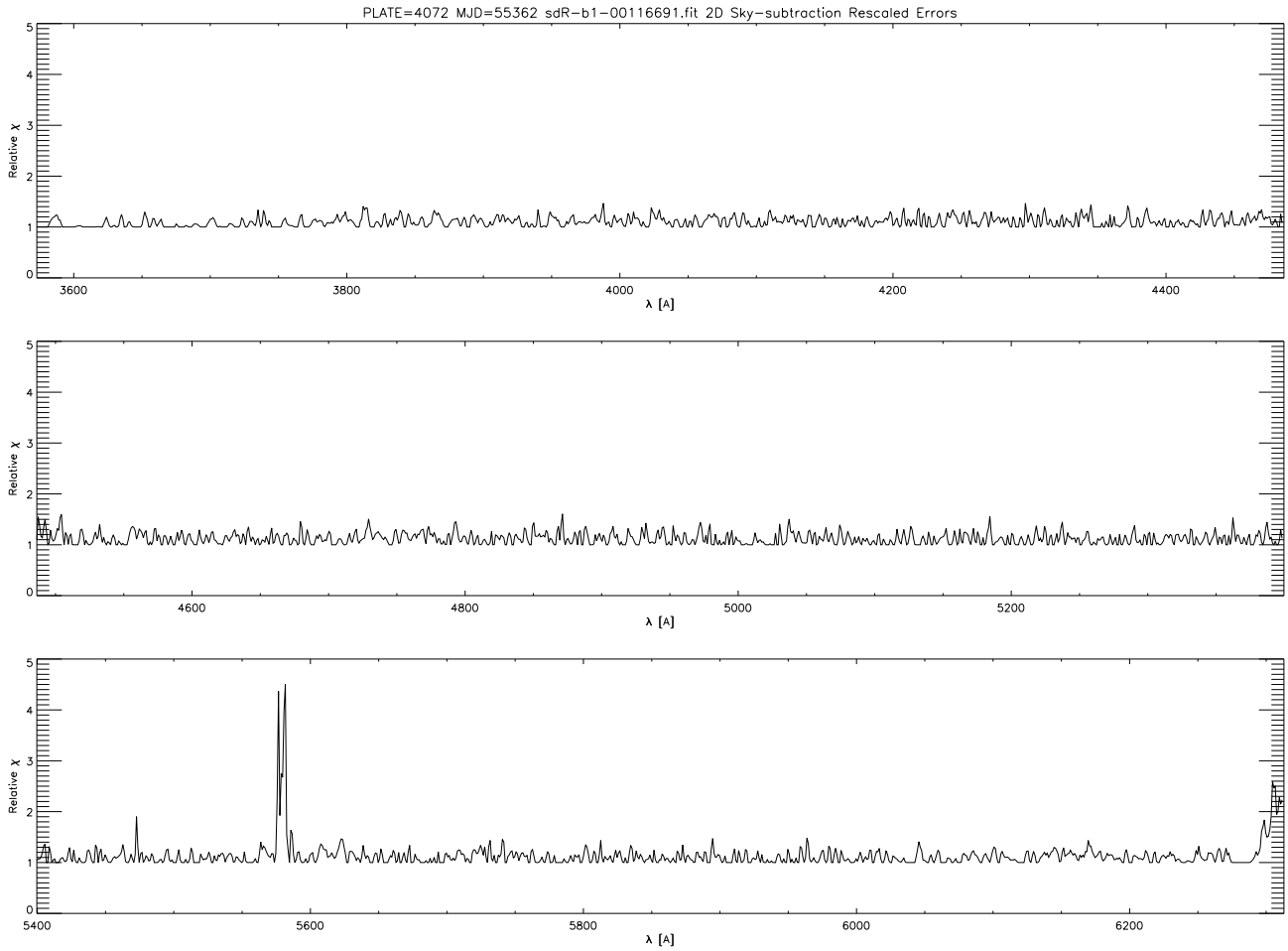


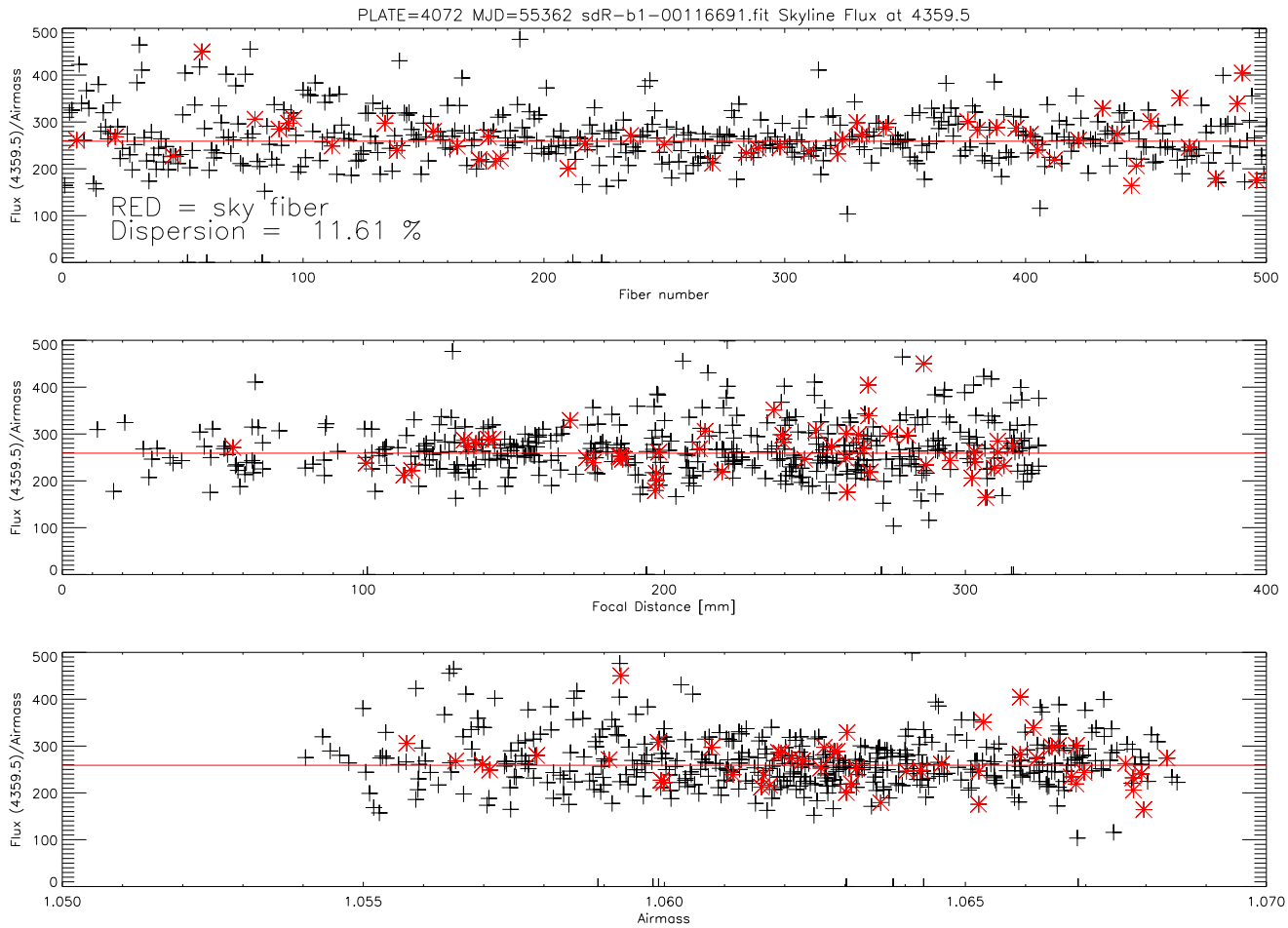

PLATE=4072 MJD=55362 sdR-b1-00116691.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

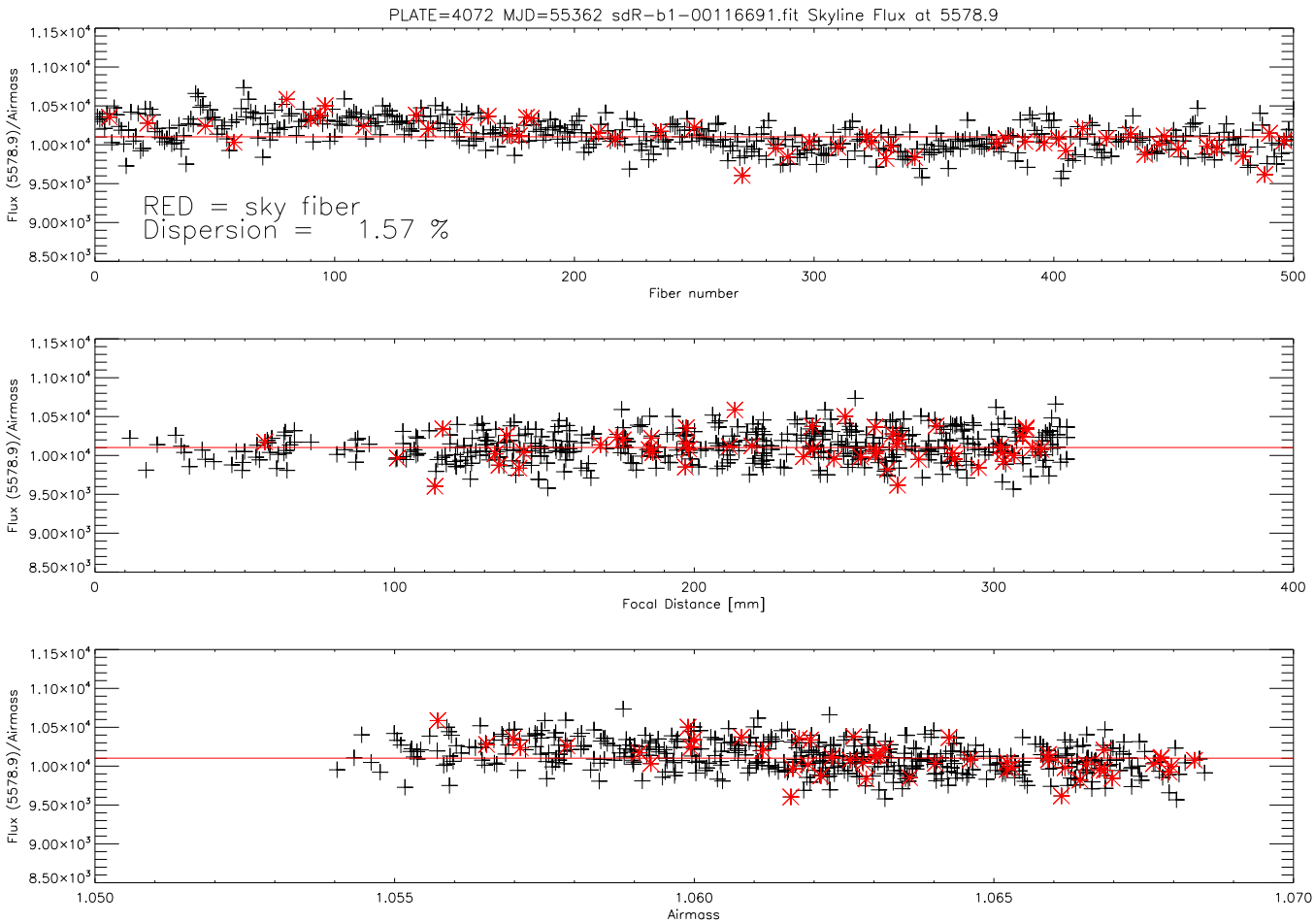

PLATE=4072 MJD=55362 sdR-b1-00116691.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

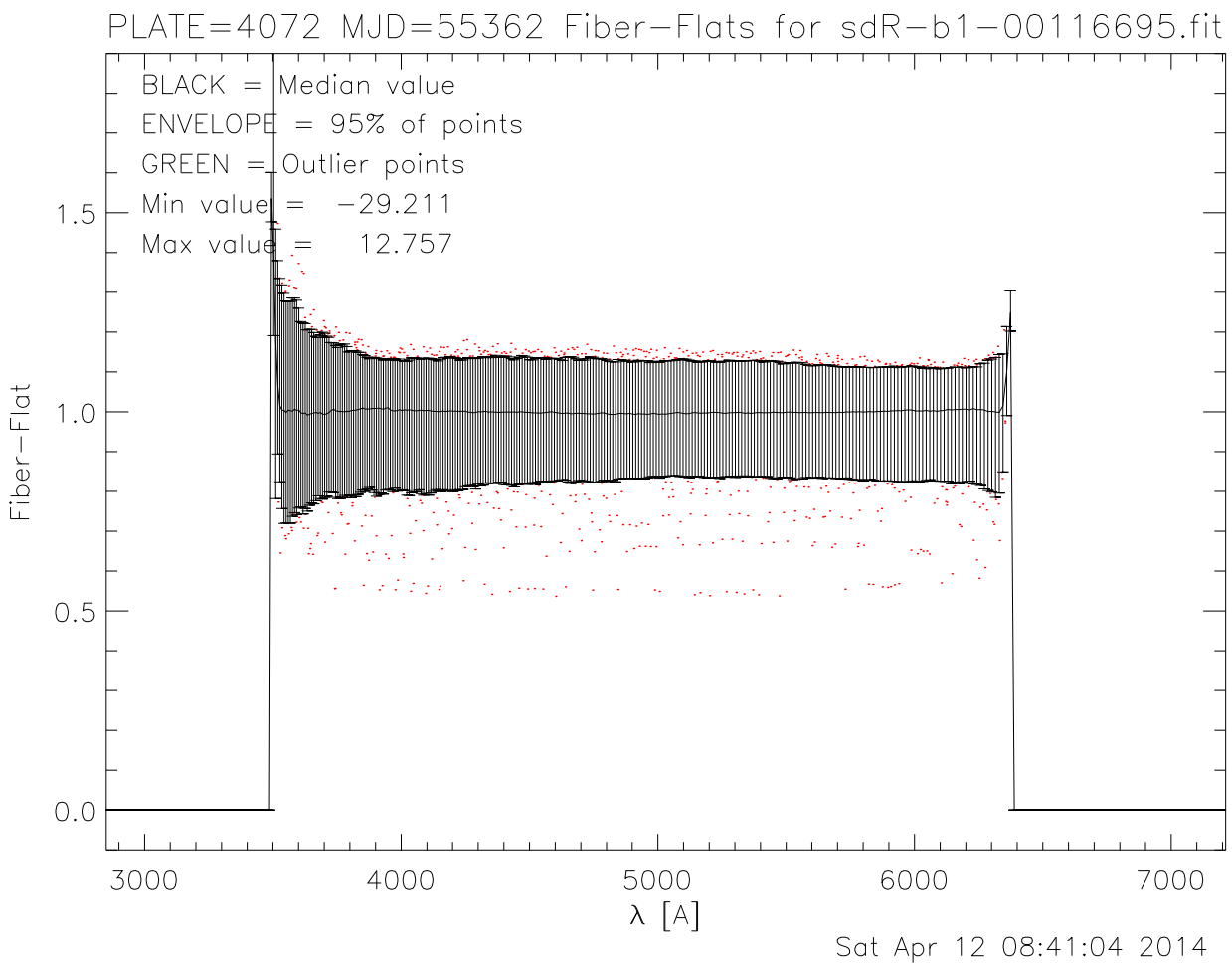

PLATE=4072 MJD=55362 sdR-b1-00116691.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

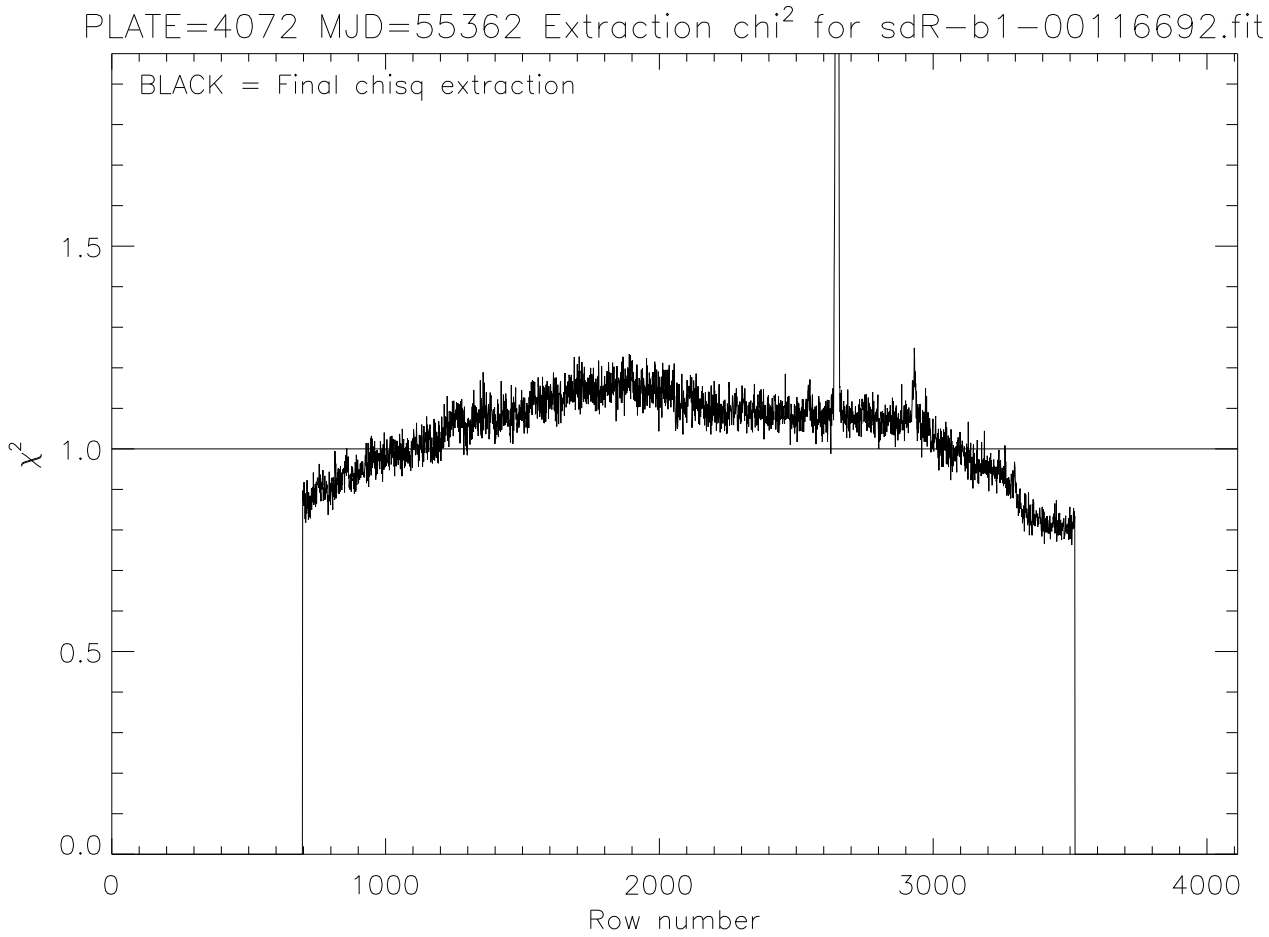
Number of sky fibers = 50

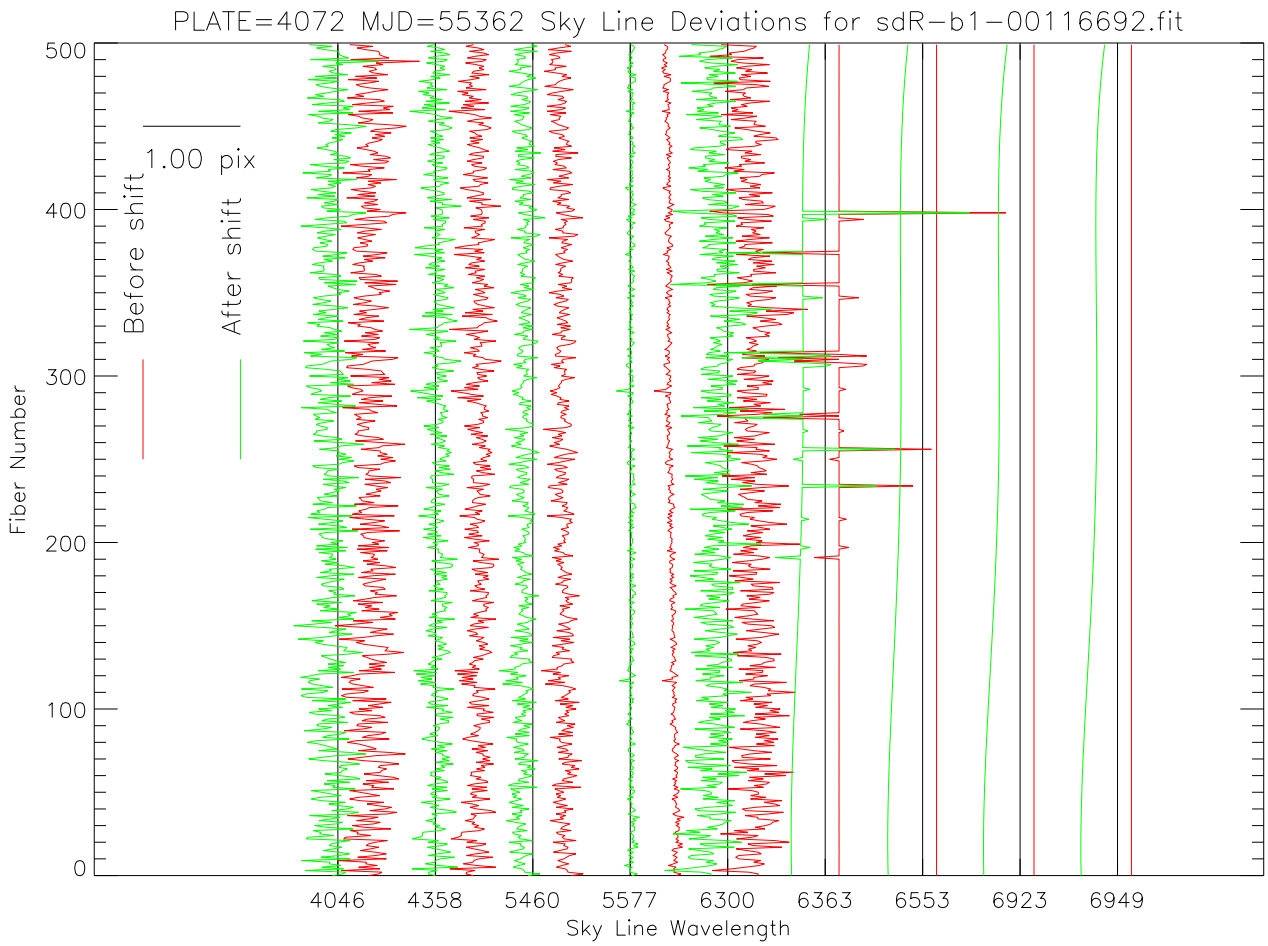


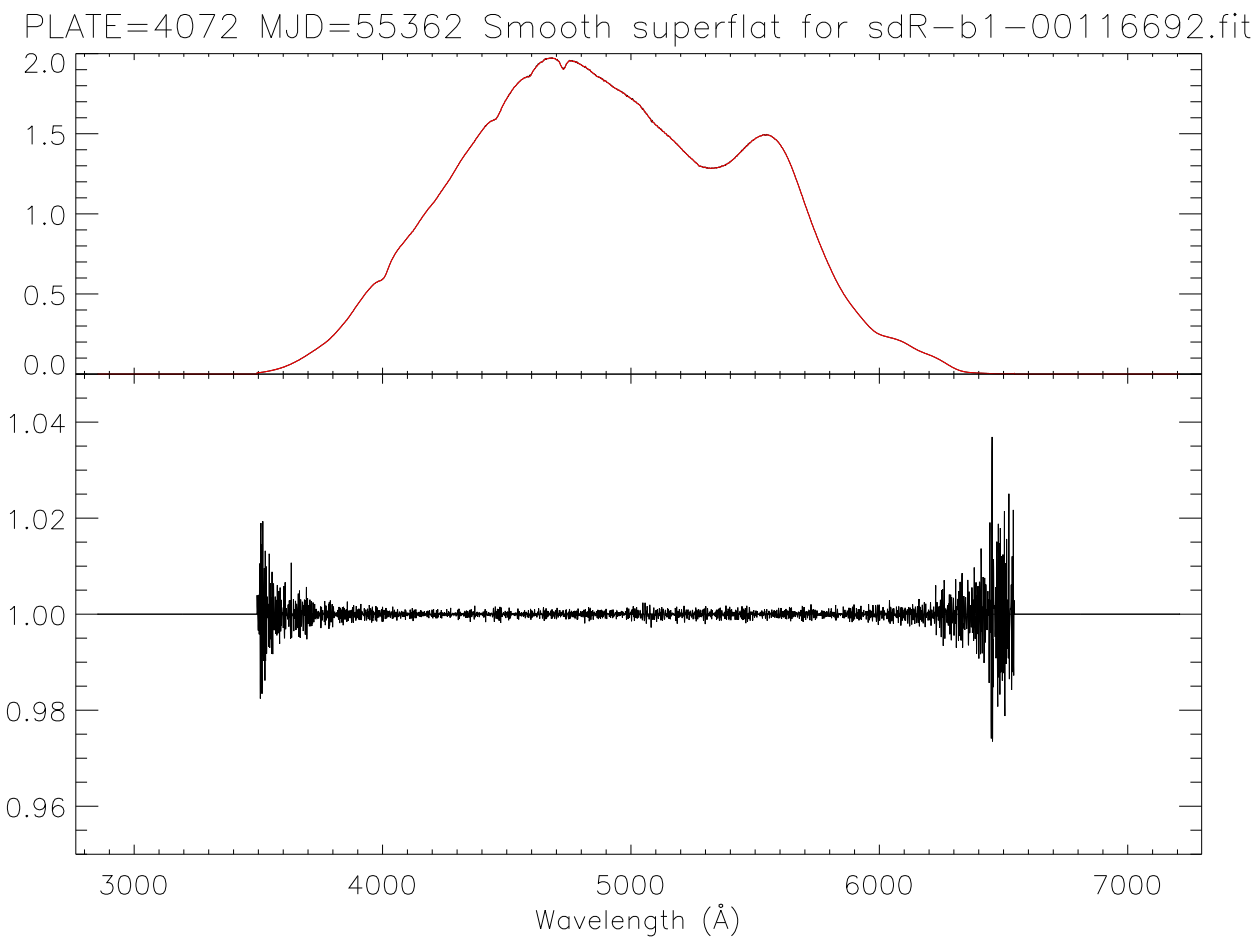

PLATE=4072 MJD=55362 sdR-b1-00116691.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 11.61 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

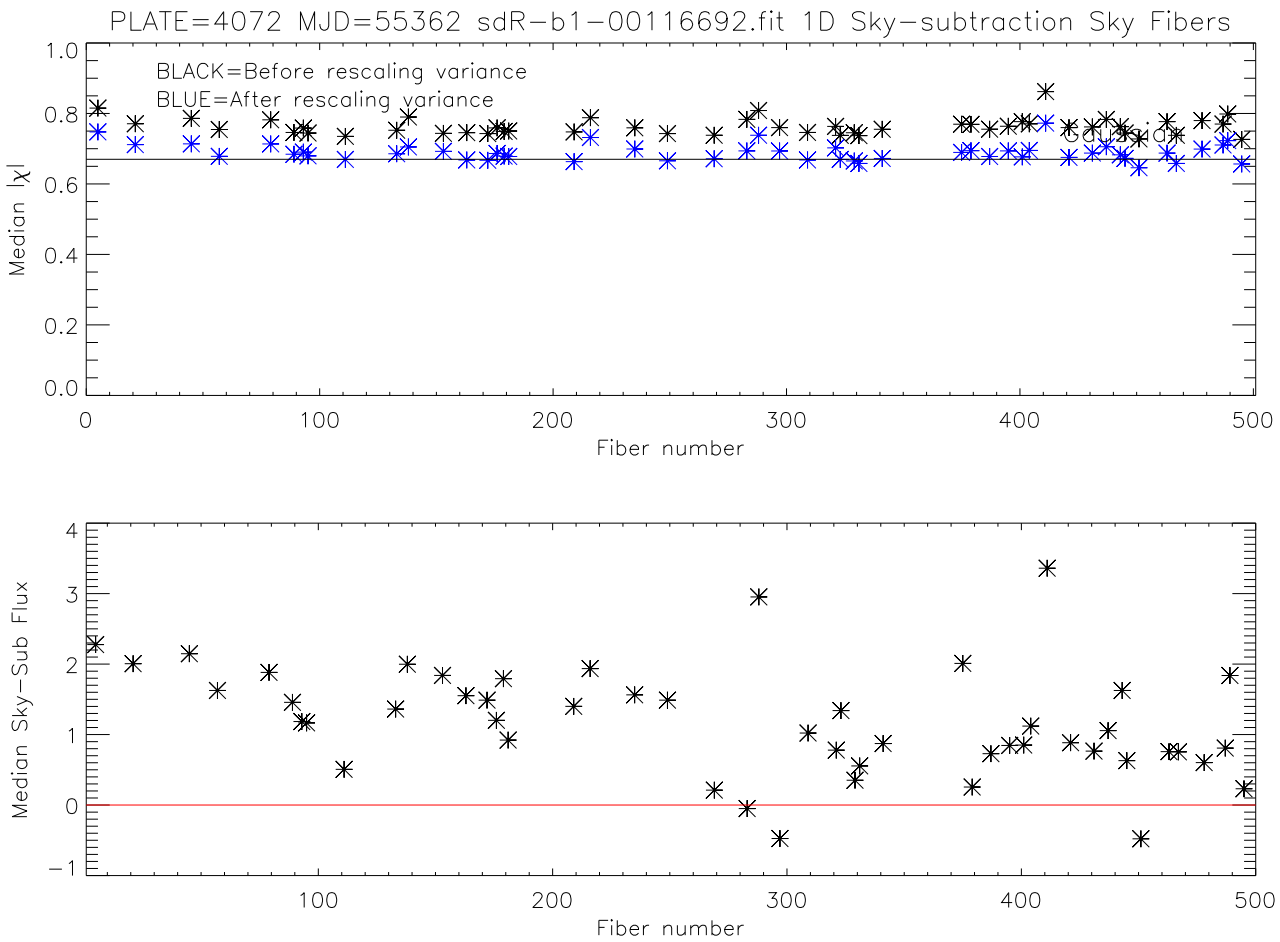

PLATE=4072 MJD=55362 sdR-b1-00116691.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.57 %
Fiber number
Focal Distance [mm]
Airmass

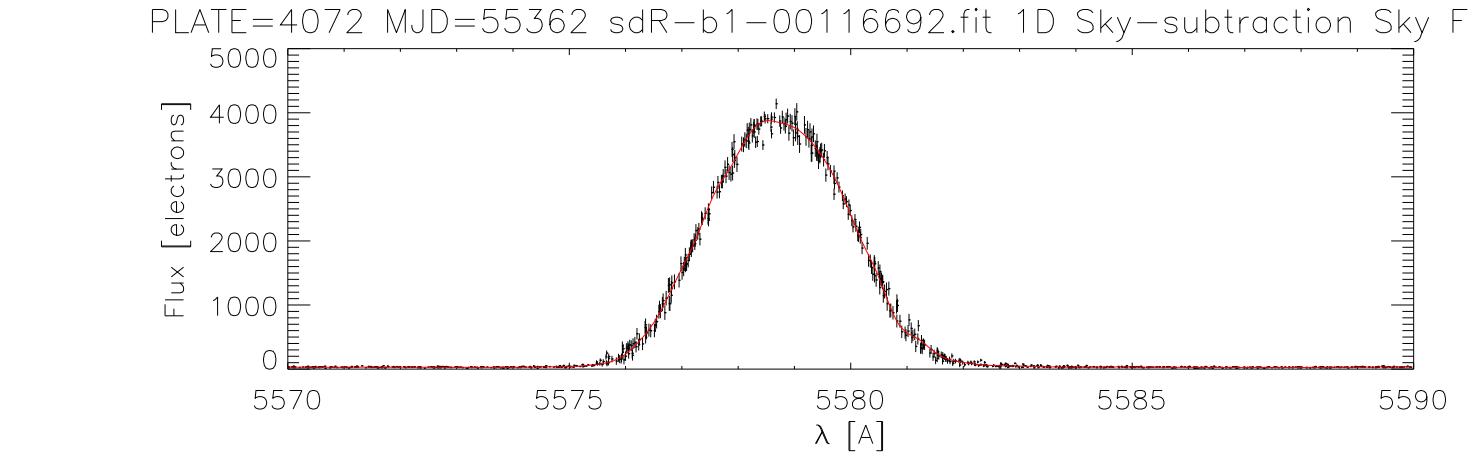

PLATE=4072 MJD=55362 Fiber−Flats for sdR−b1−00116695.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −29.211
Max value = 12.757
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sat Apr 12 08:41:04 2014

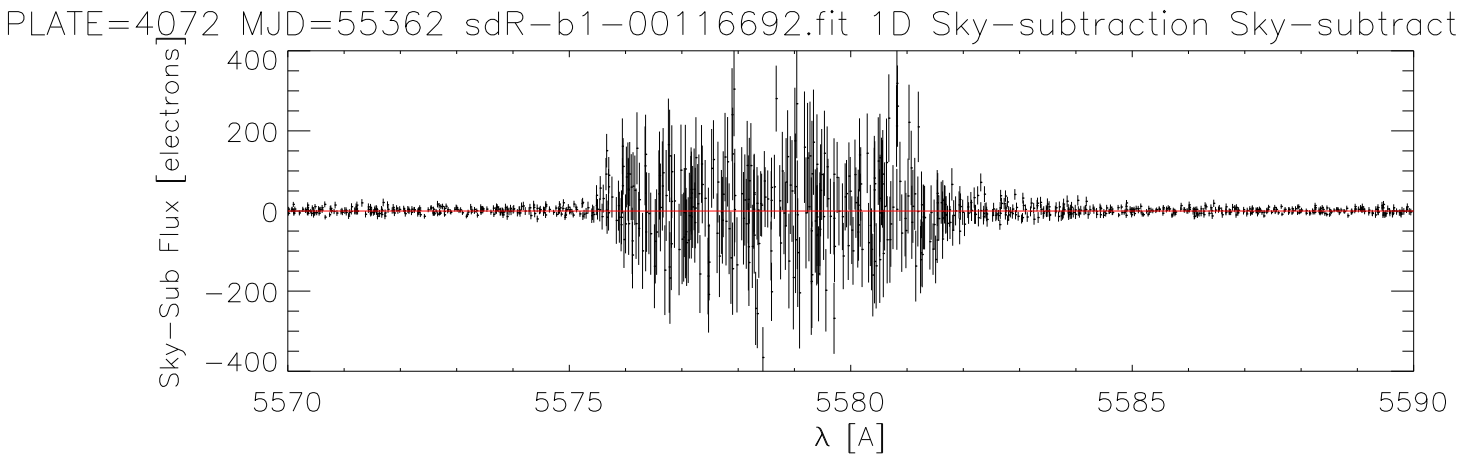

PLATE=4072 MJD=55362 Extraction chi$^2$ for sdR−b1−00116692.fit
BLACK = Final chisq extraction
$\chi^2$
1.5
1.0
0.5
0.0
0
1000
2000
3000
4000
Row number


PLATE=4072 MJD=55362 Sky Line Deviations for sdR-b1-00116692.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

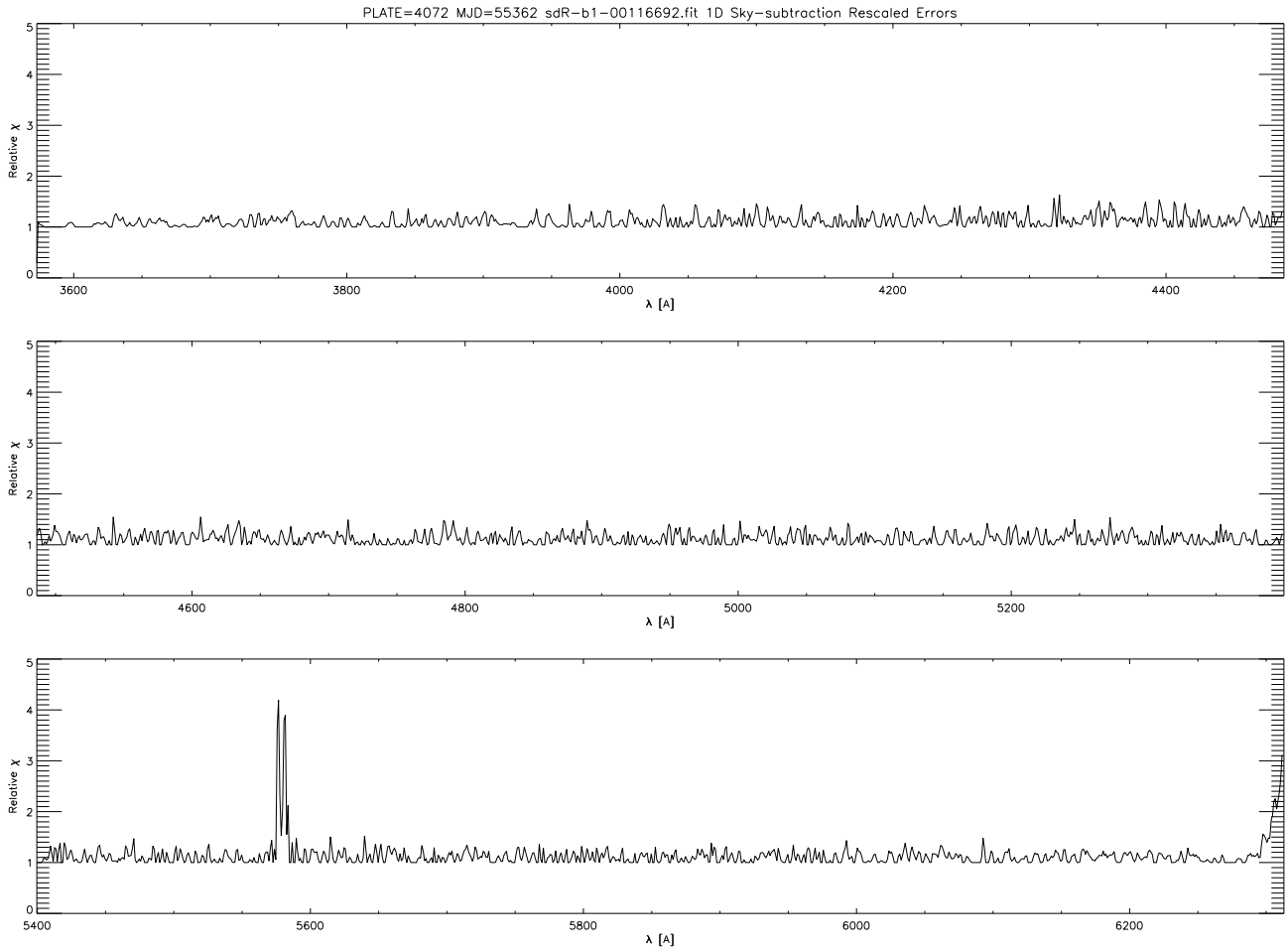

PLATE=4072 MJD=55362 Smooth superflat for sdR-b1-00116692.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

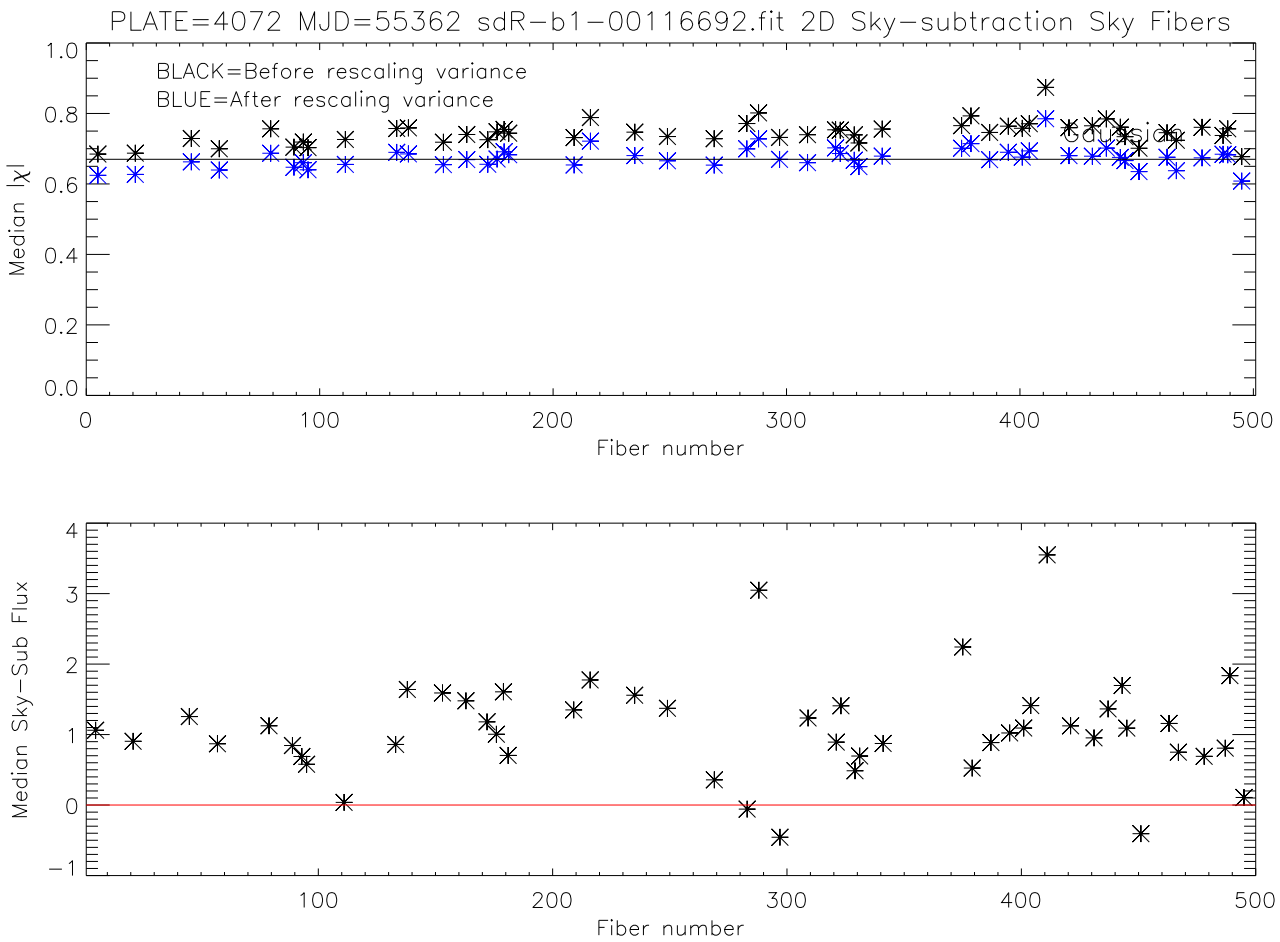

PLATE=4072 MJD=55362 sdR-b1-00116692.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

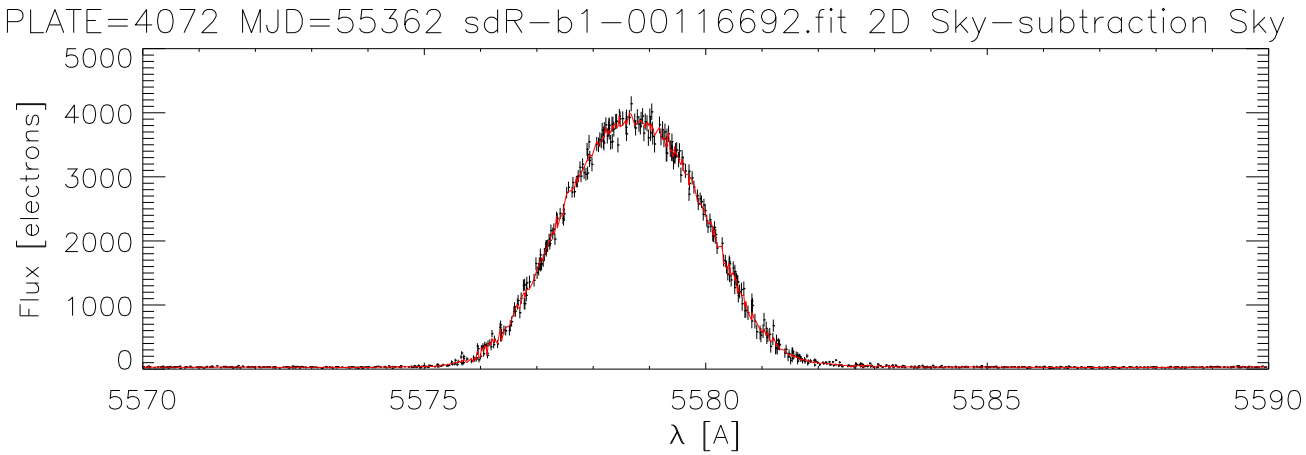

PLATE=4072 MJD=55362 sdR-b1-00116692.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

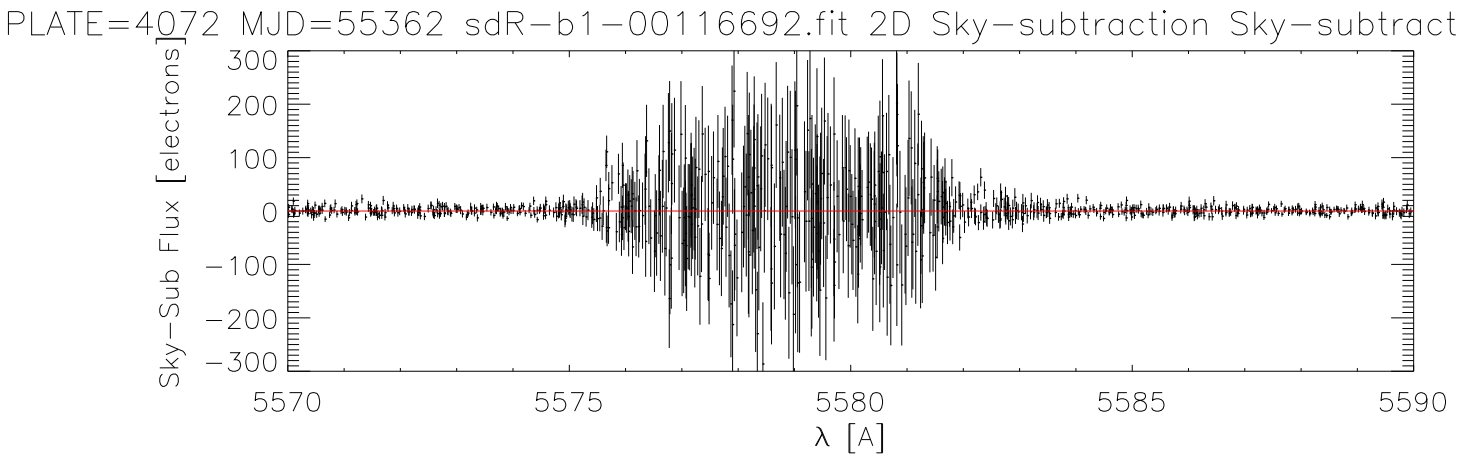

PLATE=4072 MJD=55362 sdR-b1-00116692.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 50

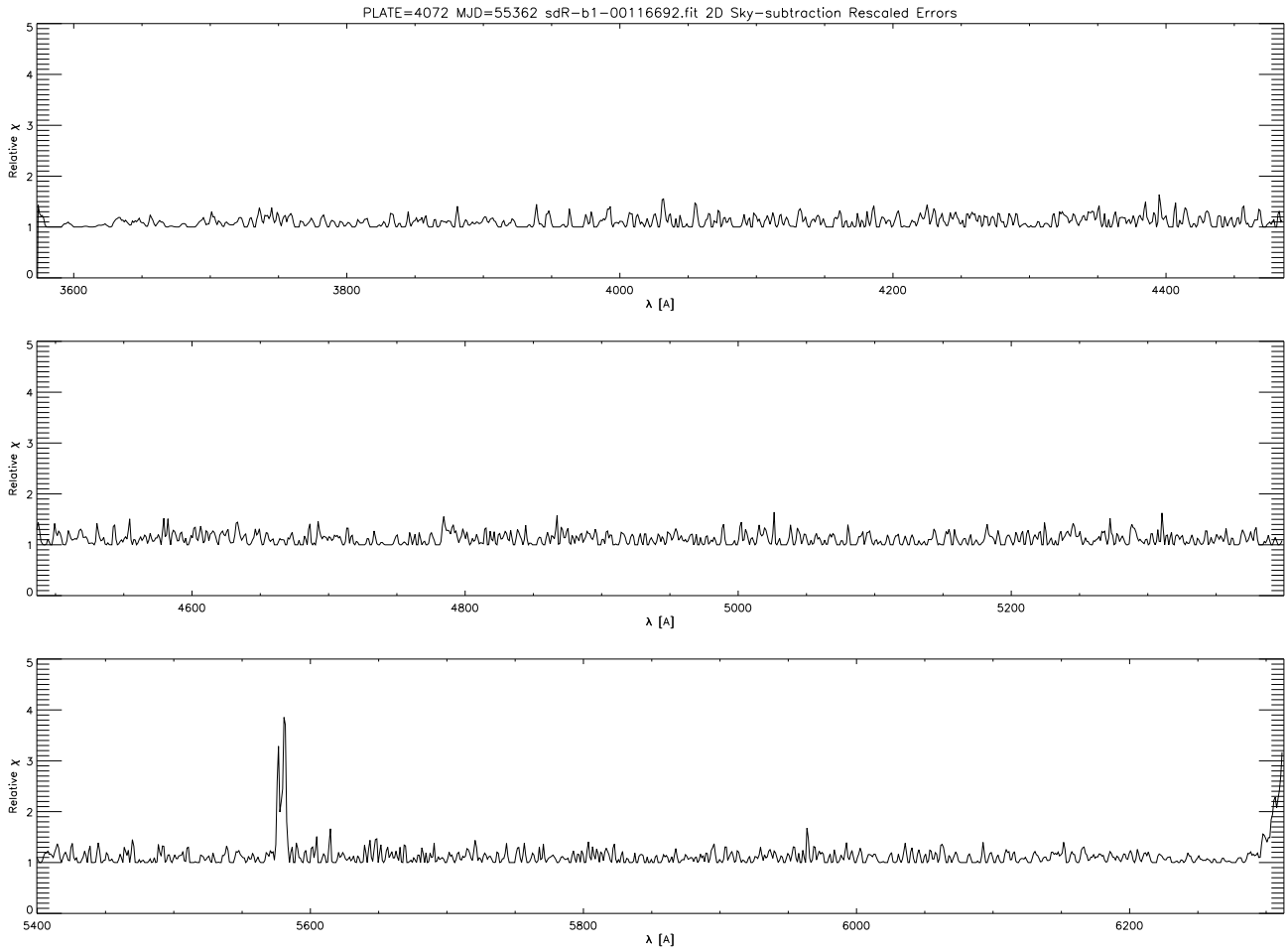


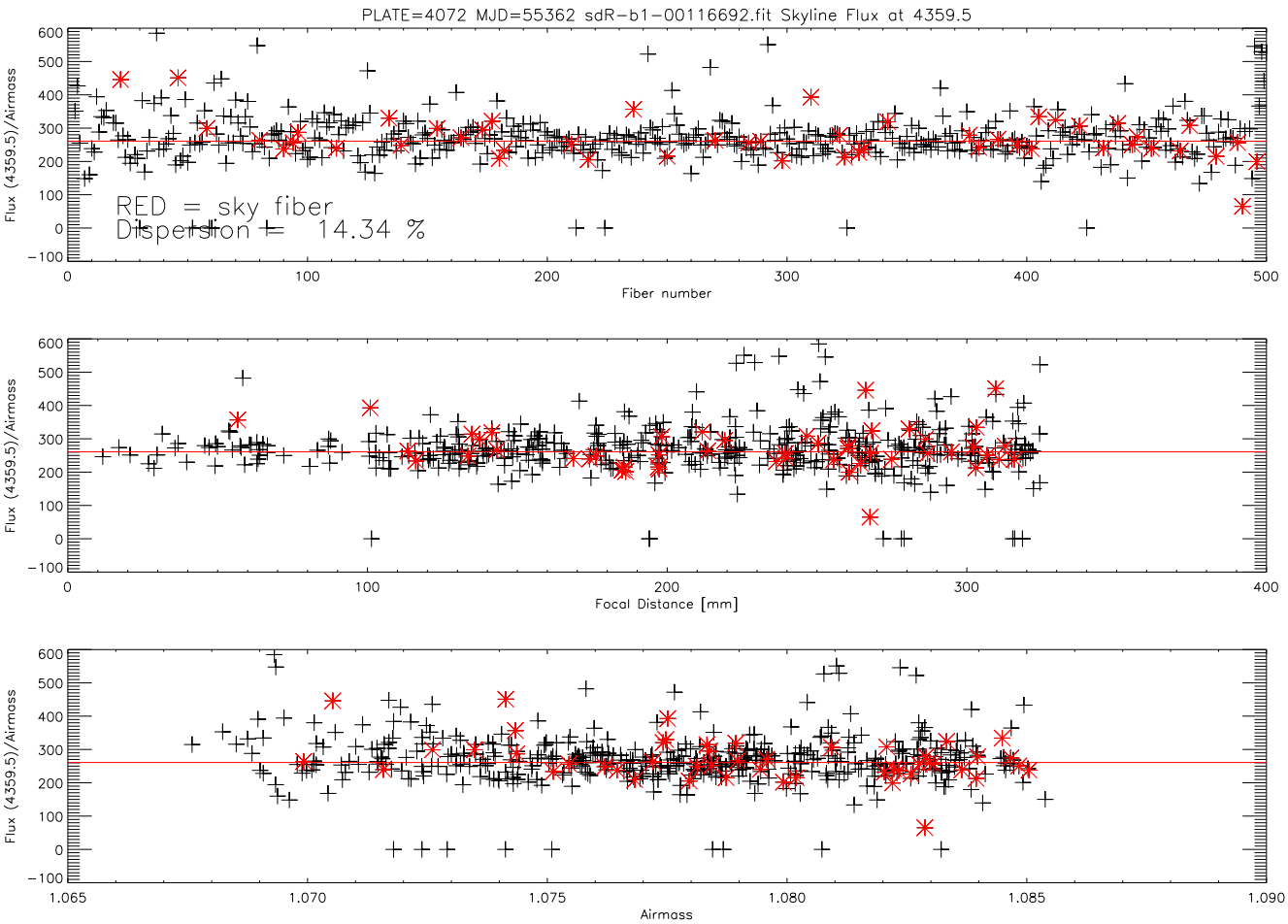

PLATE=4072 MJD=55362 sdR-b1-00116692.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

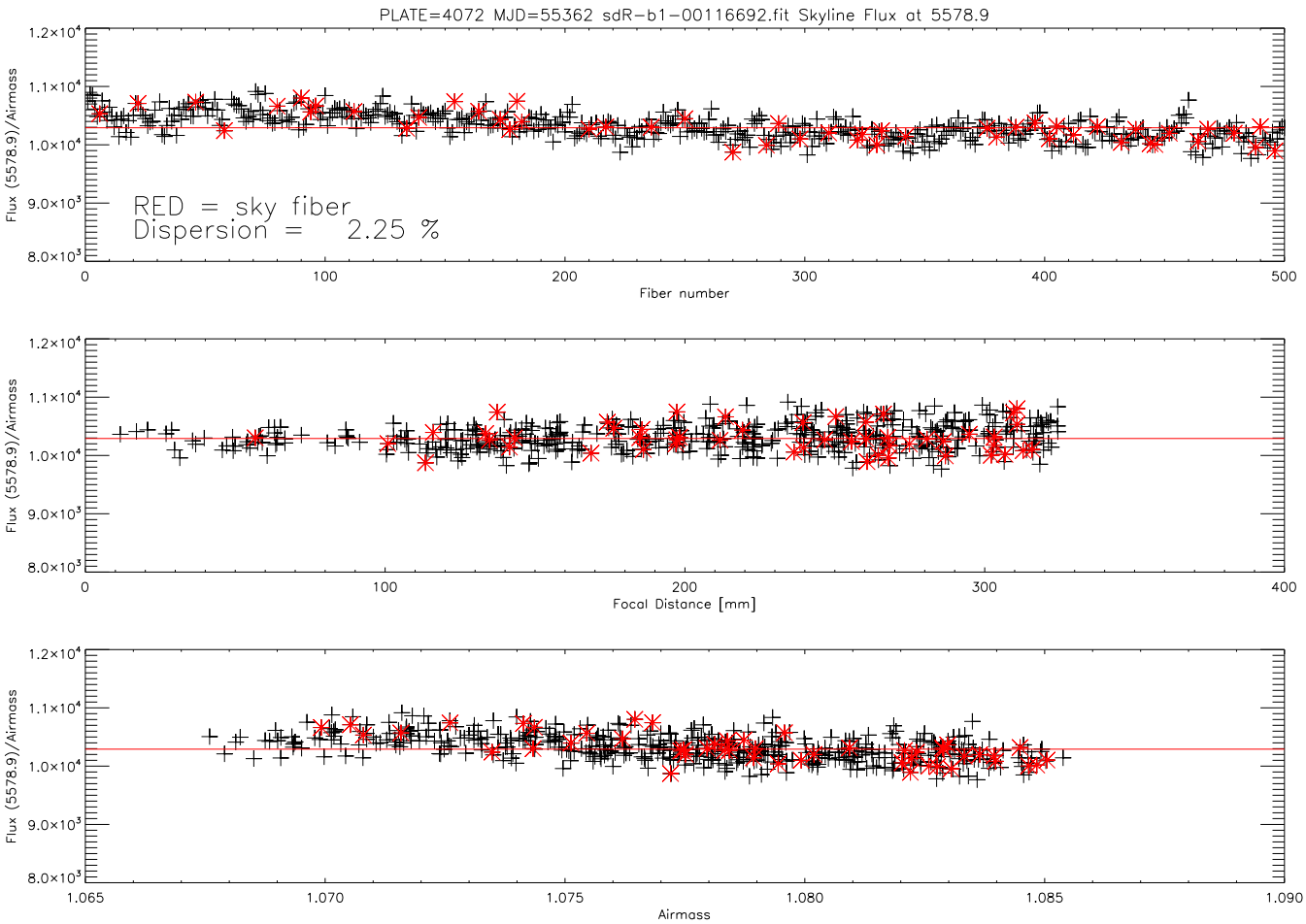

PLATE=4072 MJD=55362 sdR-b1-00116692.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

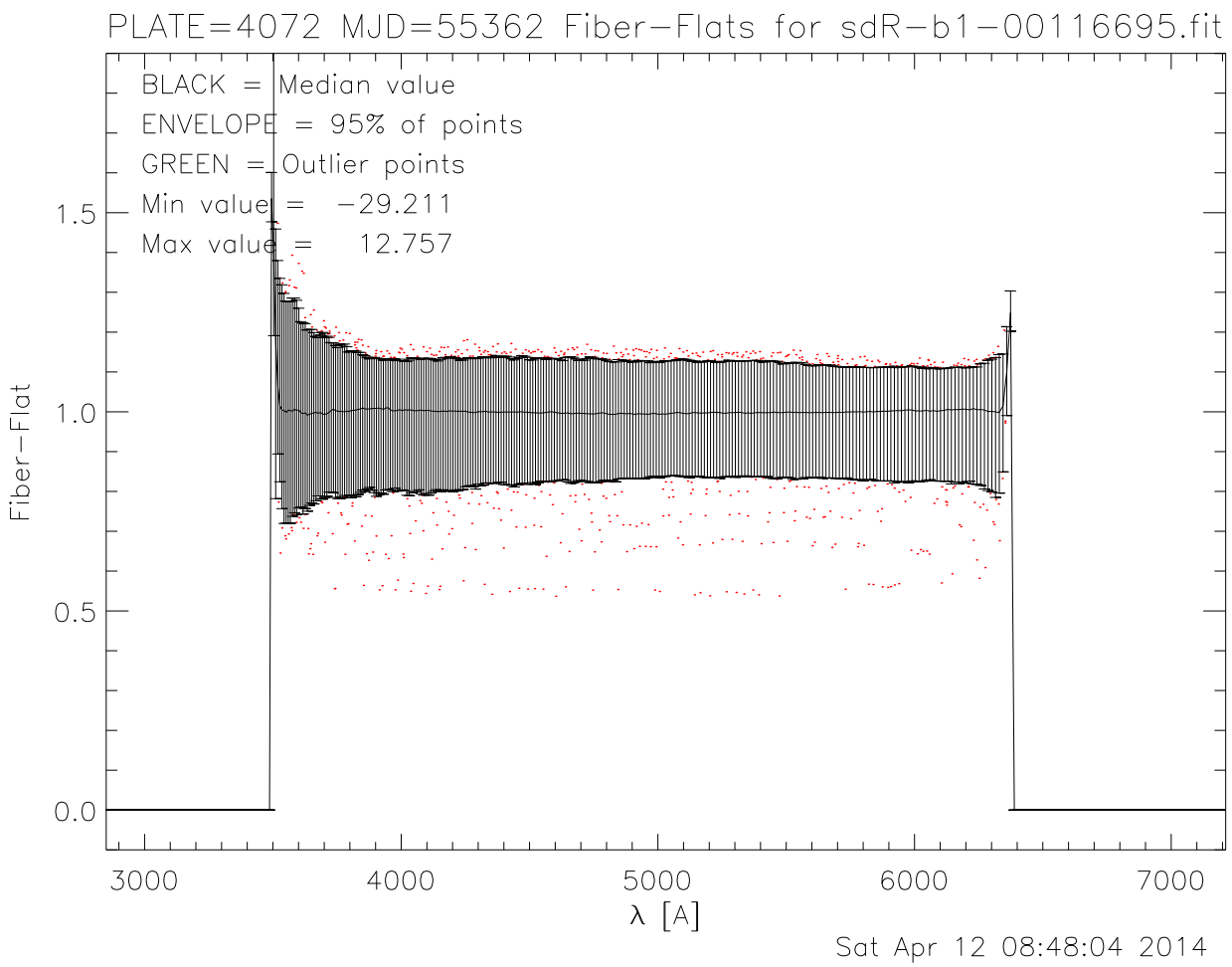

PLATE=4072 MJD=55362 sdR-b1-00116692.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

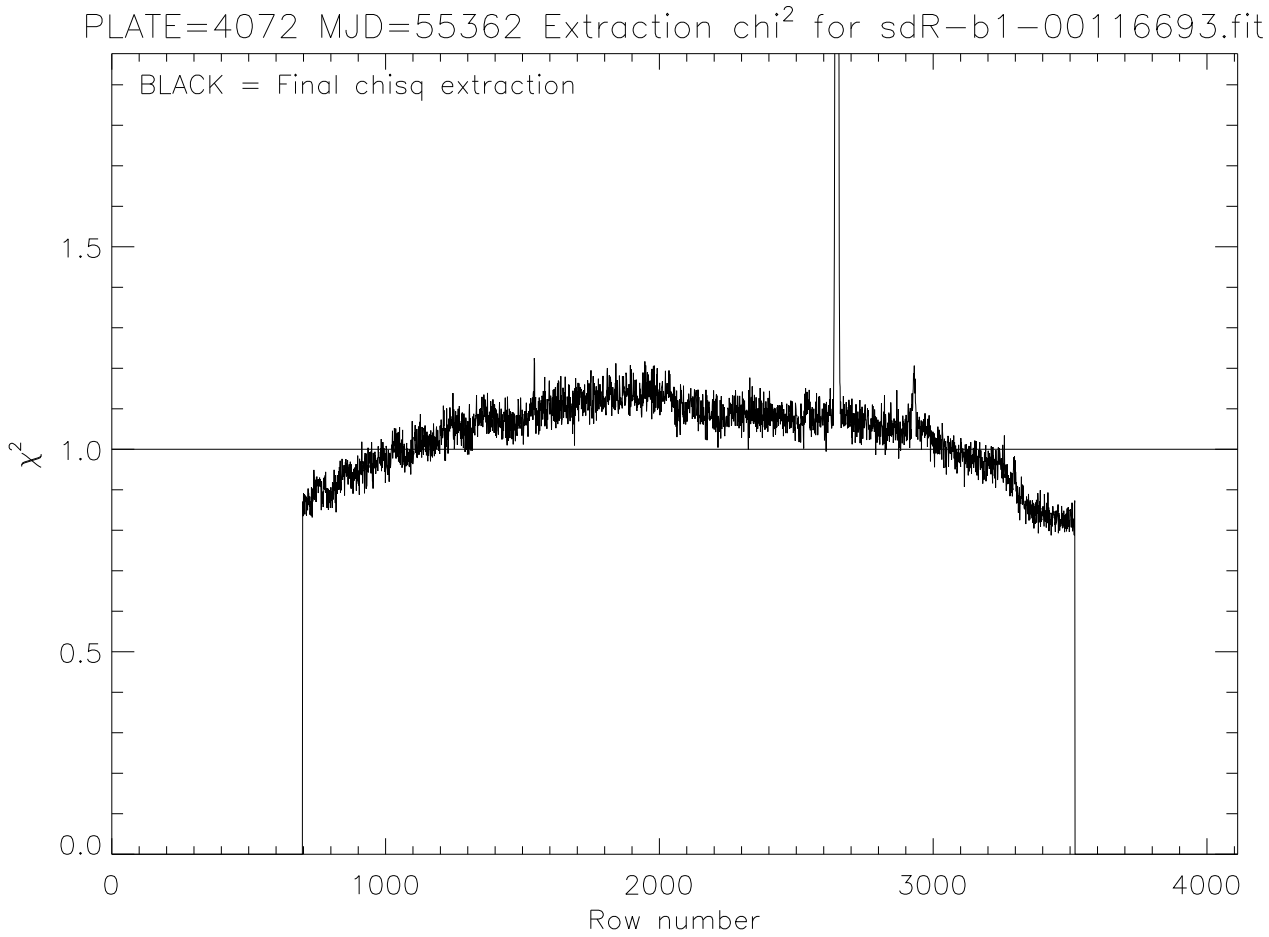
Number of sky fibers = 50

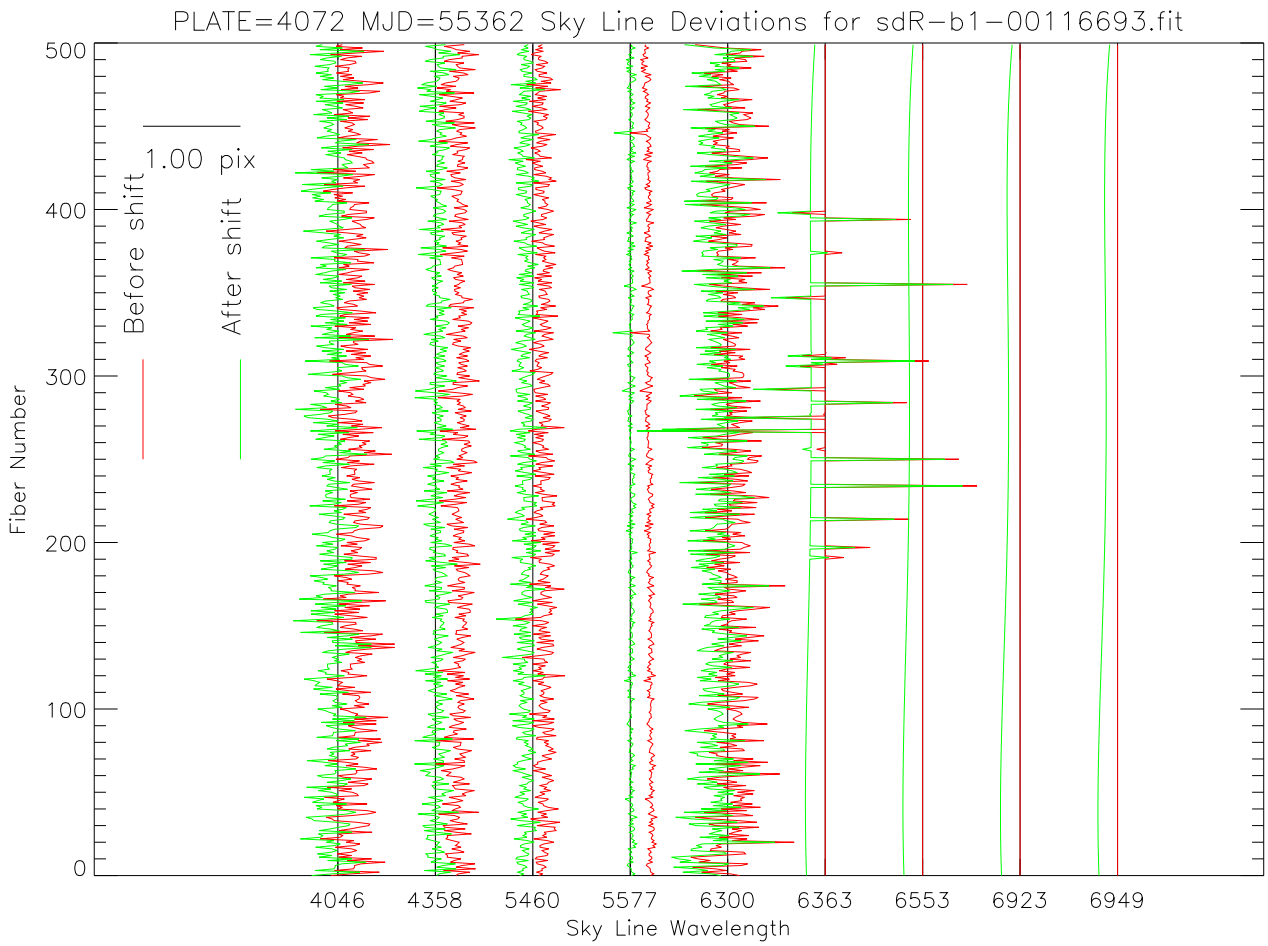


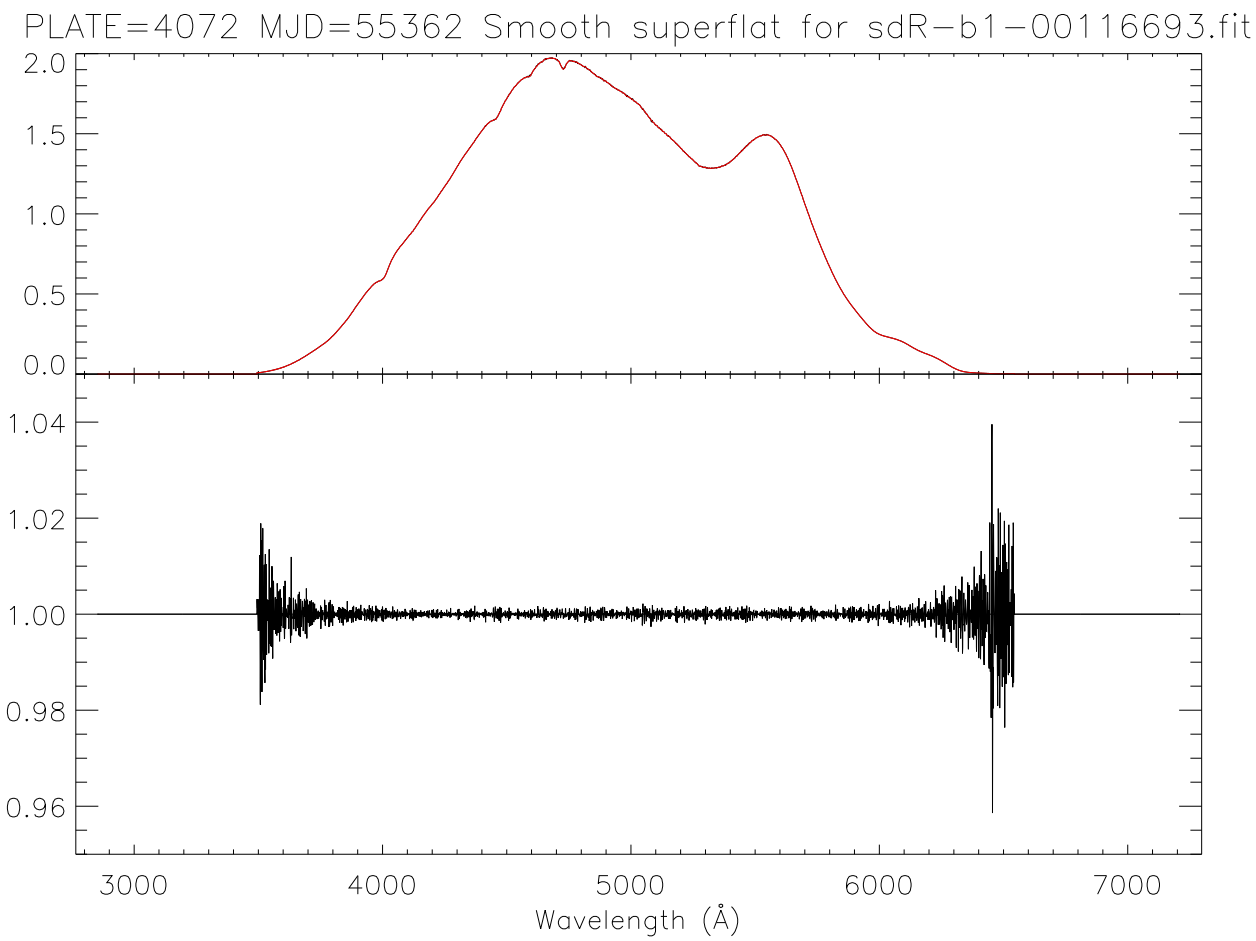

PLATE=4072 MJD=55362 sdR-b1-00116692.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 14.34 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

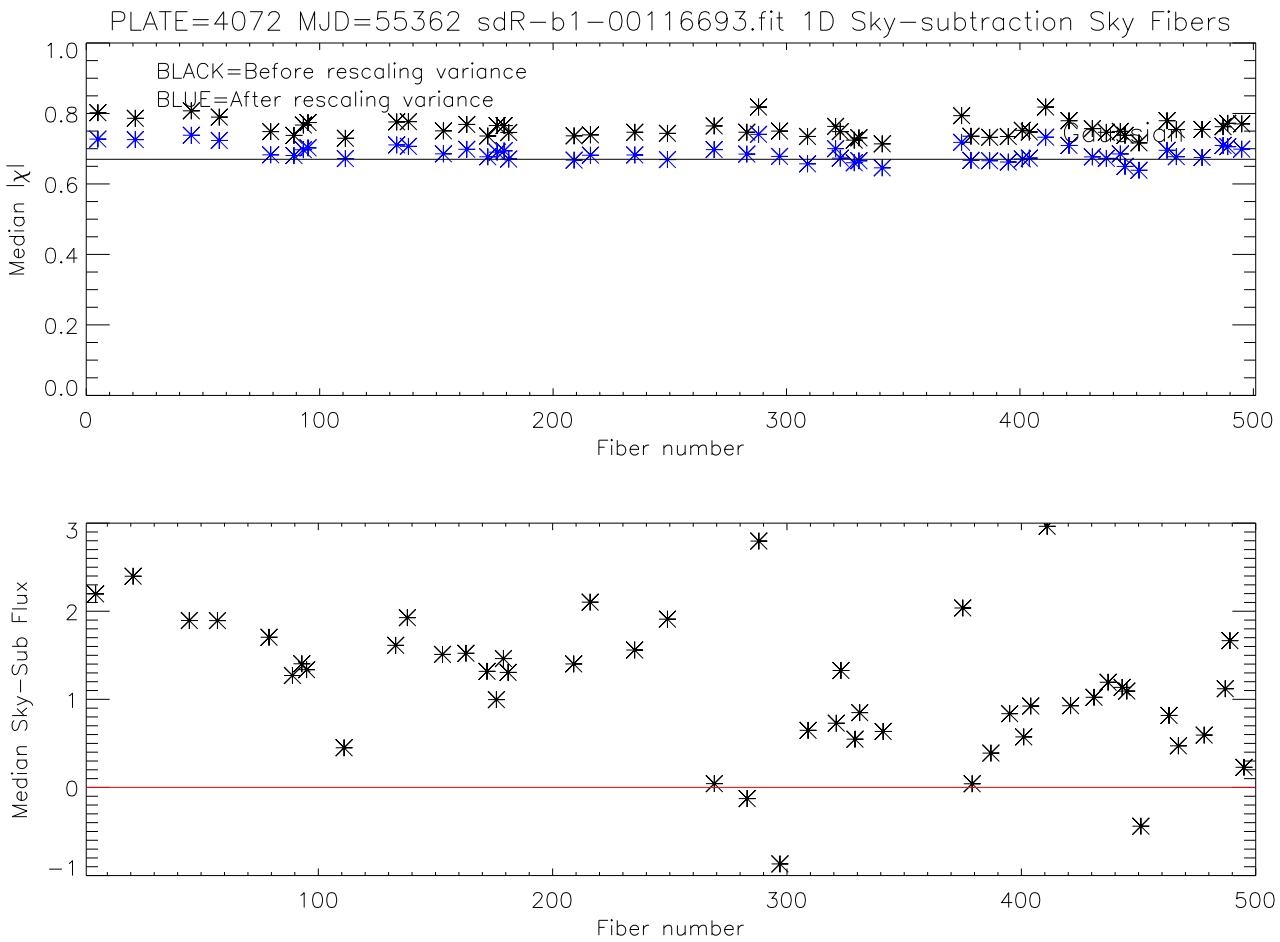

PLATE=4072 MJD=55362 sdR-b1-00116692.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.25 %
Fiber number
Focal Distance [mm]
Airmass

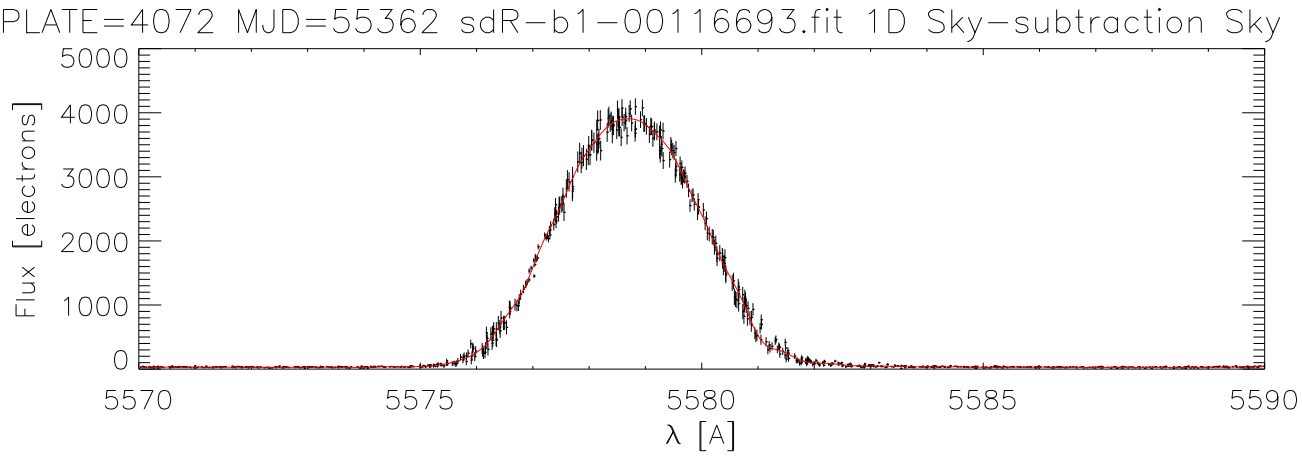

PLATE=4072 MJD=55362 Fiber−Flats for sdR−b1−00116695.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −29.211
Max value = 12.757
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sat Apr 12 08:48:04 2014

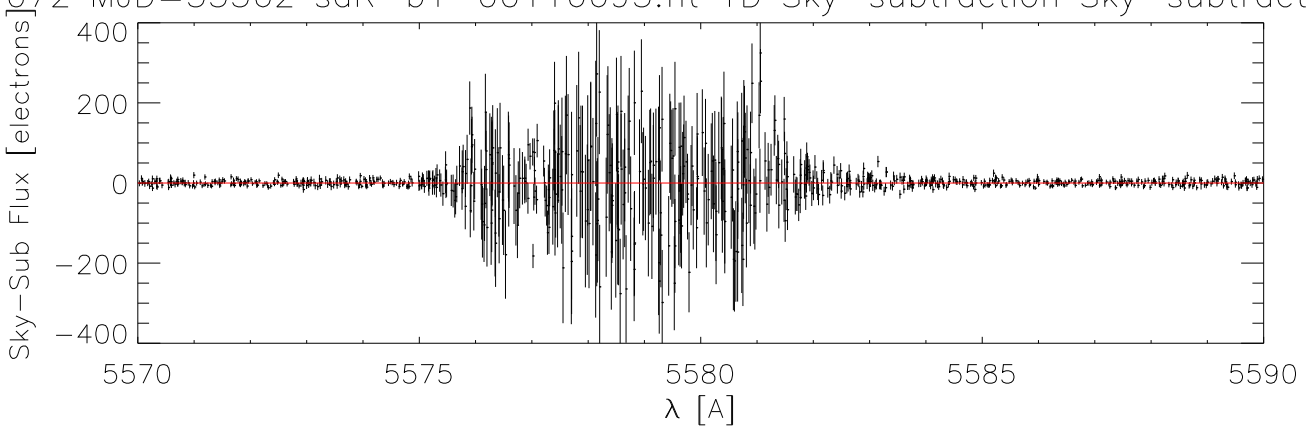

PLATE=4072 MJD=55362 Extraction chi$^2$ for sdR−b1−00116693.fit
BLACK = Final chisq extraction
$\chi^2$
1.5
1.0
0.5
0.0
0
1000
2000
3000
4000
Row number


PLATE=4072 MJD=55362 Sky Line Deviations for sdR-b1-00116693.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

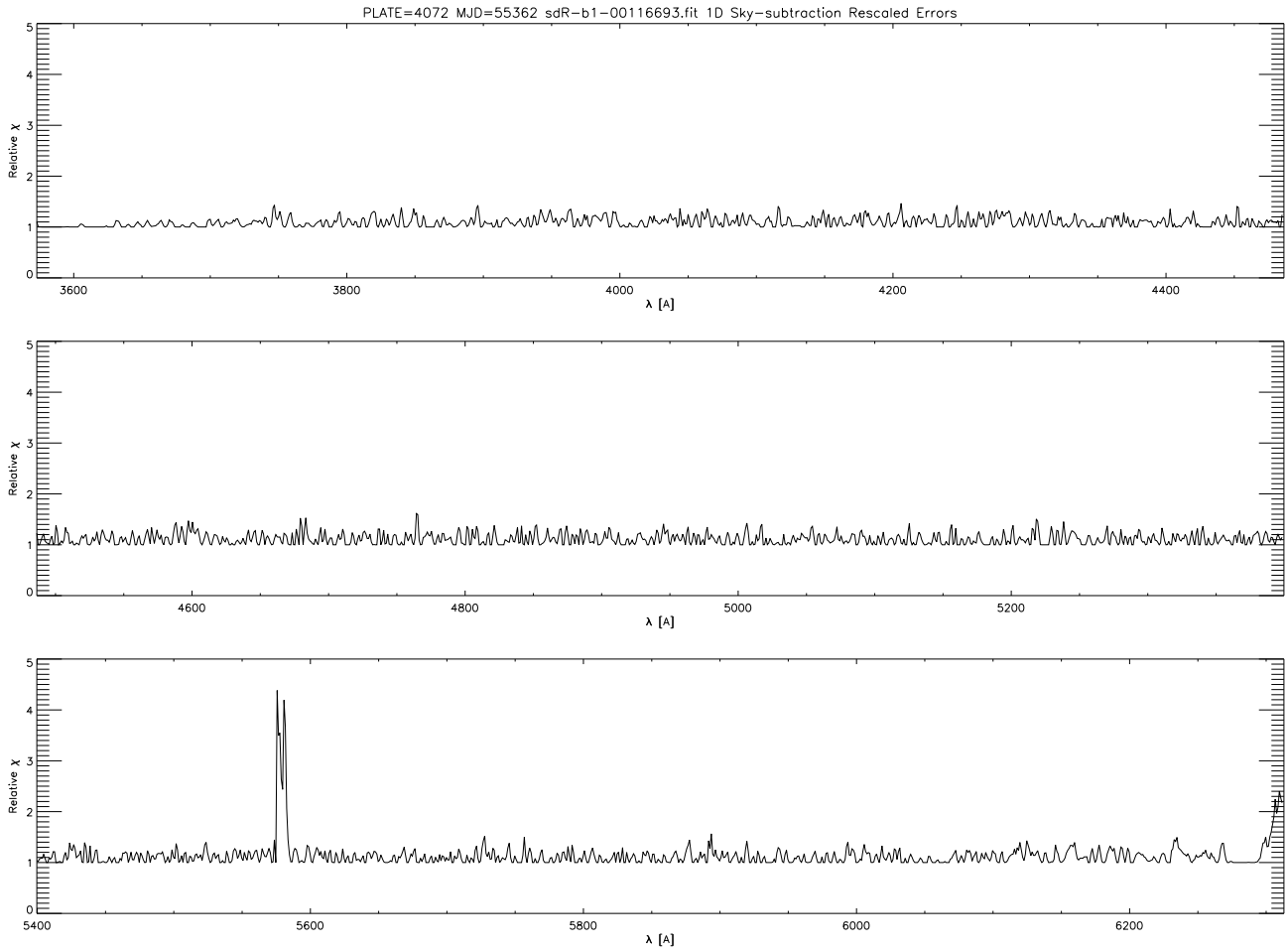

PLATE=4072 MJD=55362 Smooth superflat for sdR-b1-00116693.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

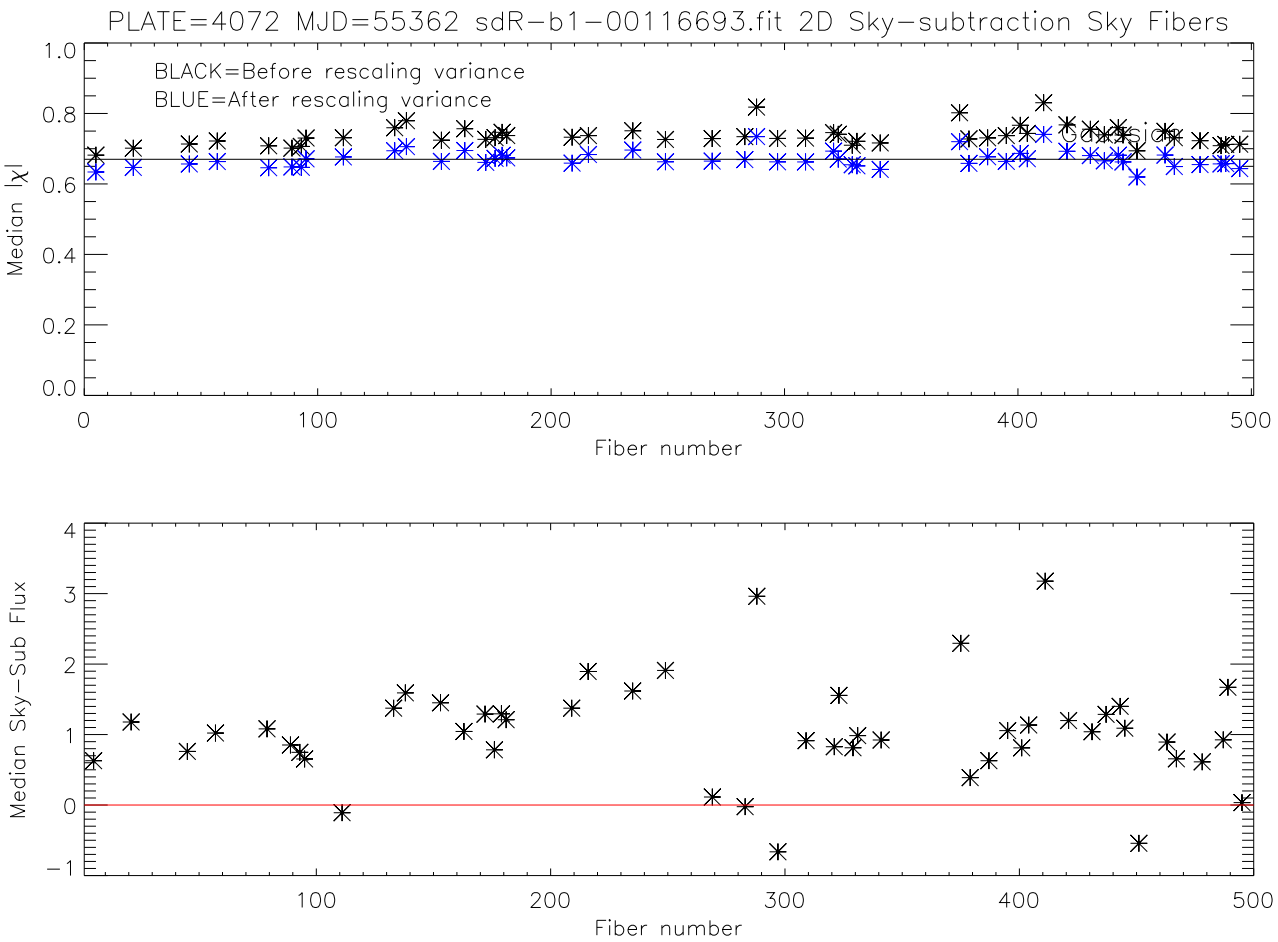

PLATE=4072 MJD=55362 sdR-b1-00116693.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

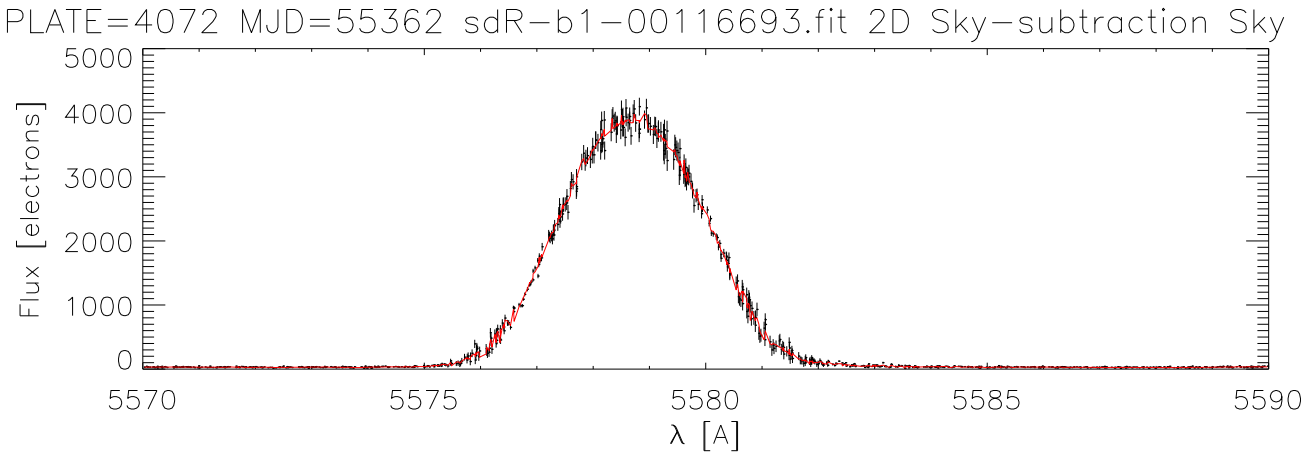

PLATE=4072 MJD=55362 sdR-b1-00116693.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

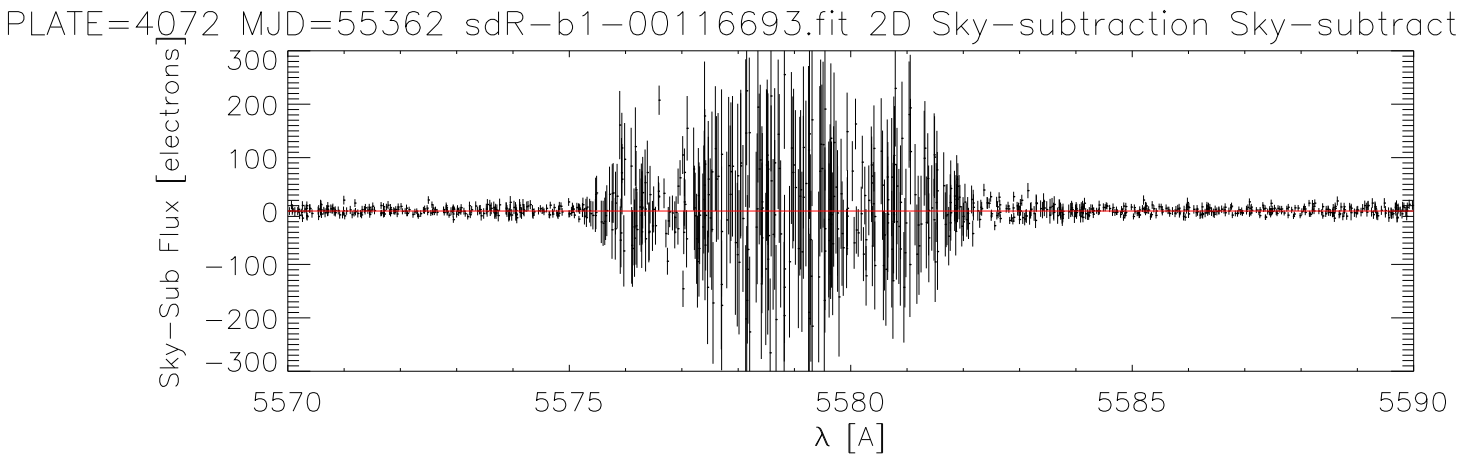

PLATE=4072 MJD=55362 sdR-b1-00116693.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 50

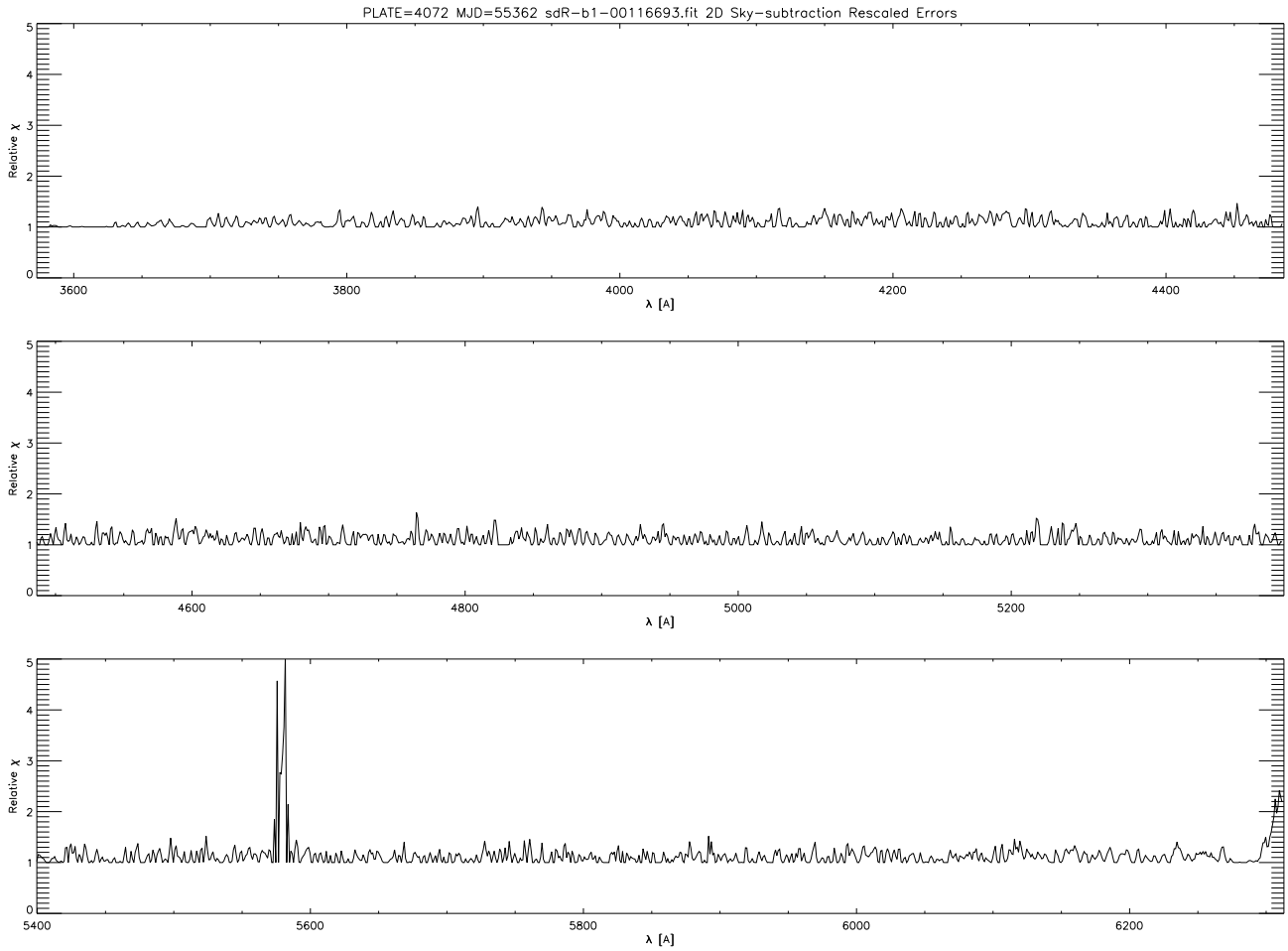


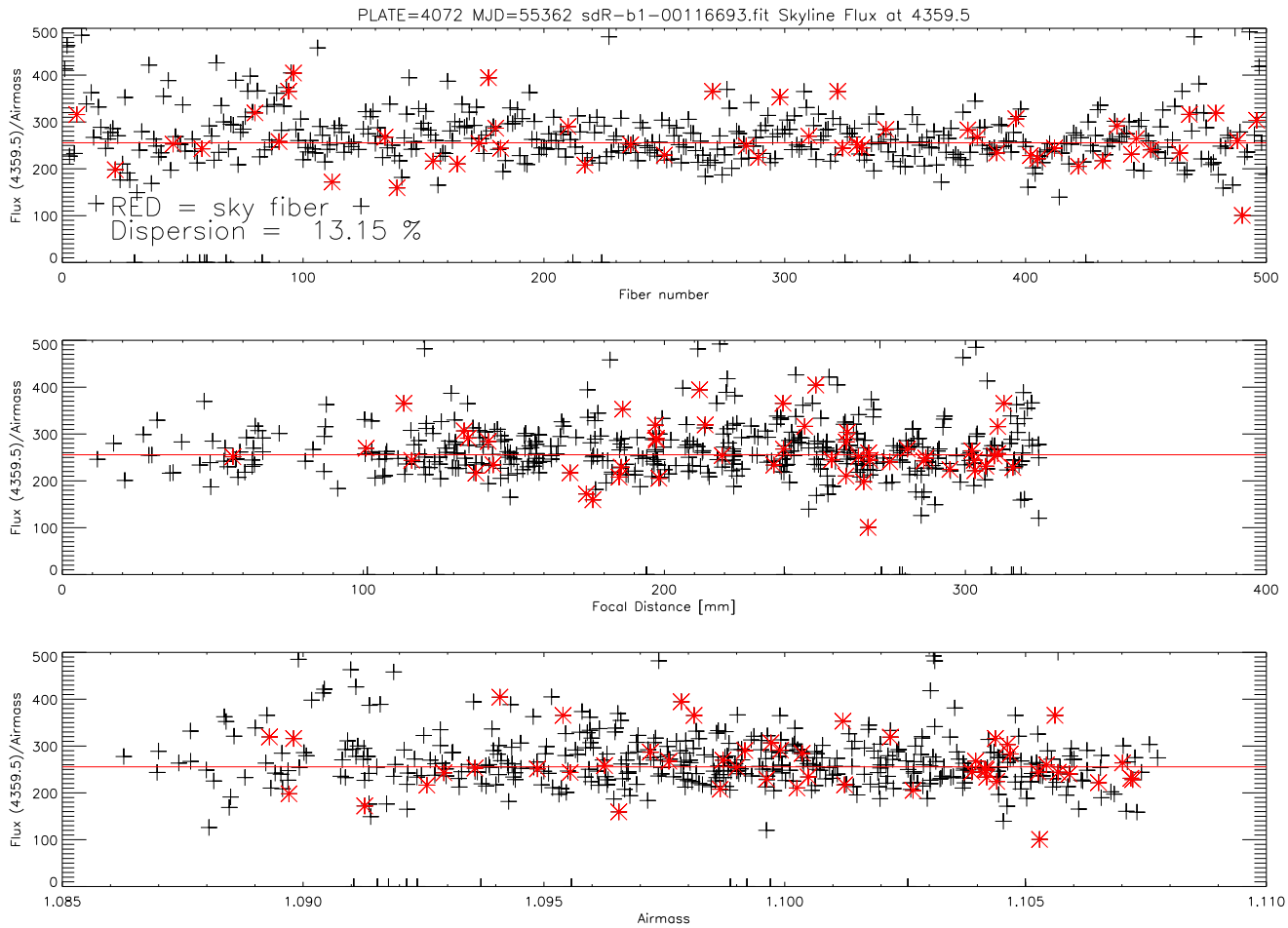

PLATE=4072 MJD=55362 sdR-b1-00116693.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

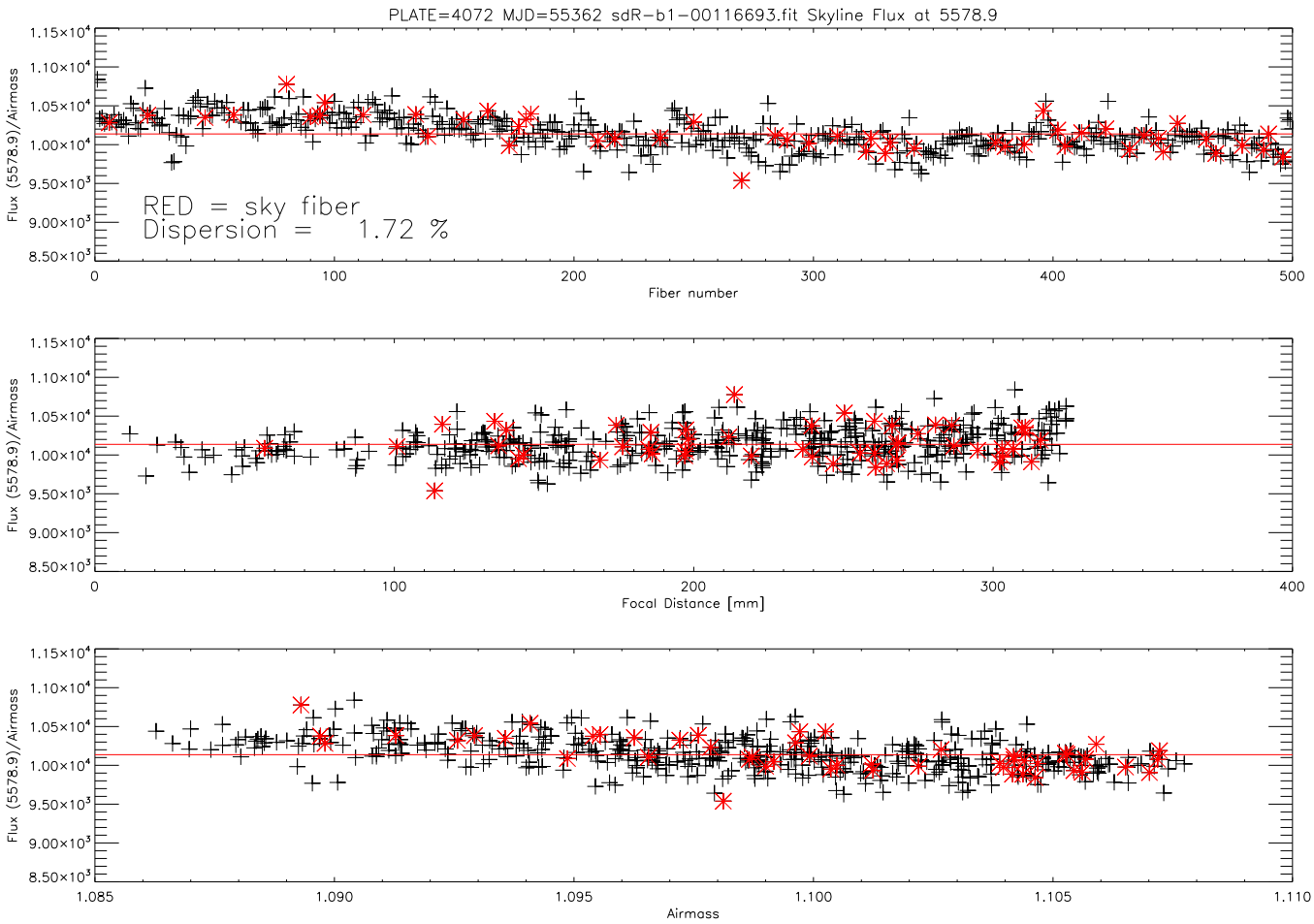

PLATE=4072 MJD=55362 sdR-b1-00116693.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

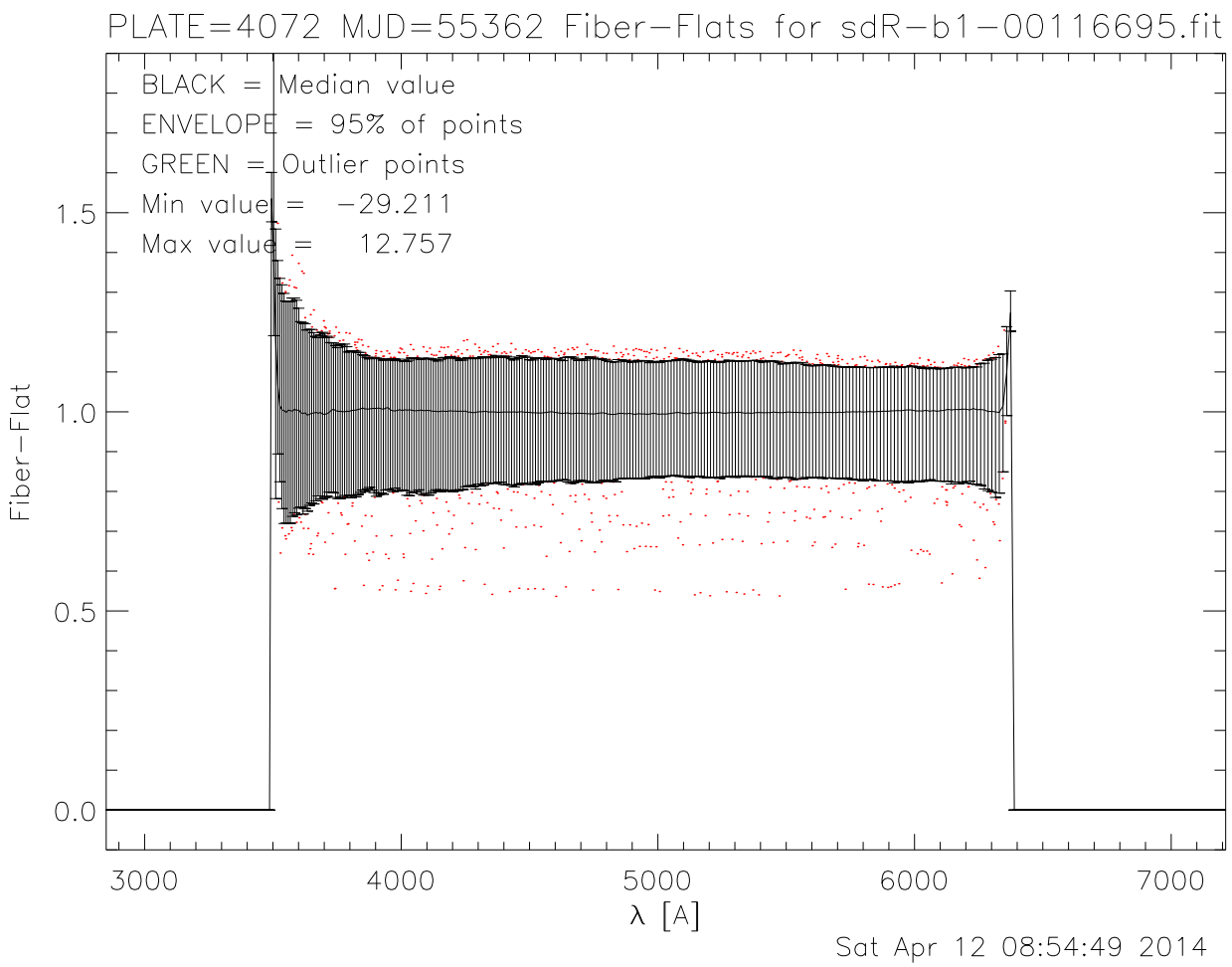

PLATE=4072 MJD=55362 sdR-b1-00116693.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

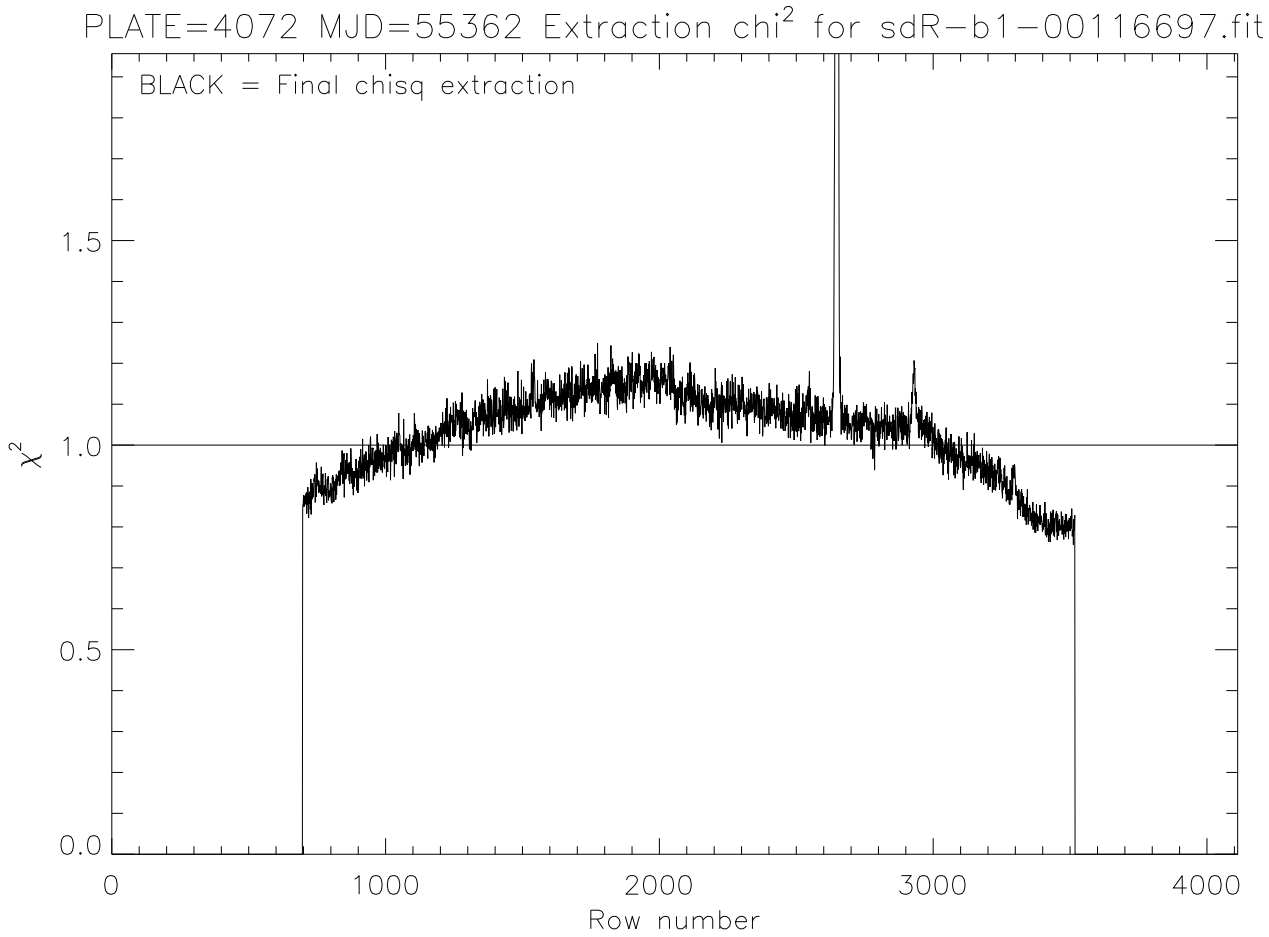
Number of sky fibers = 50

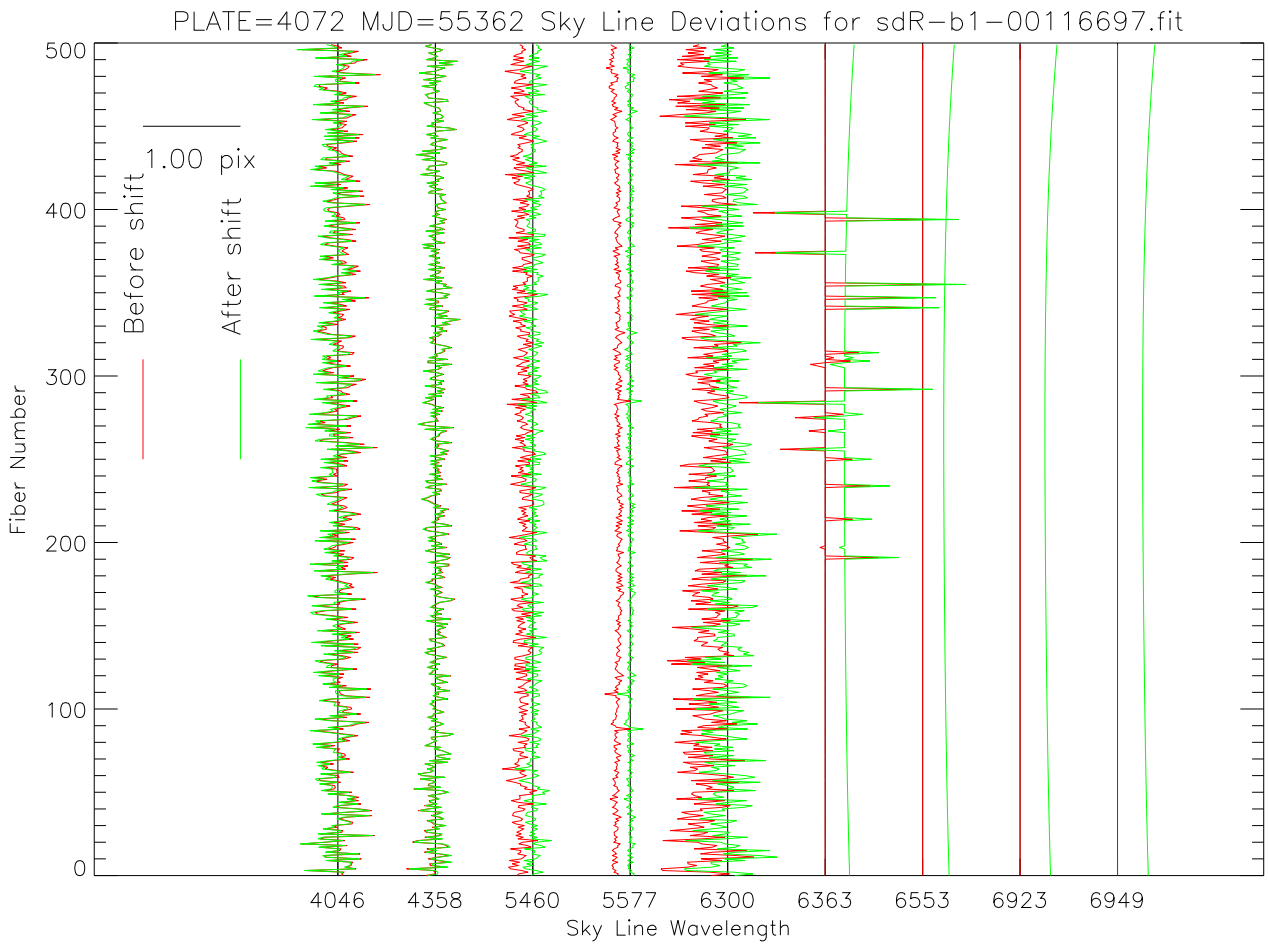


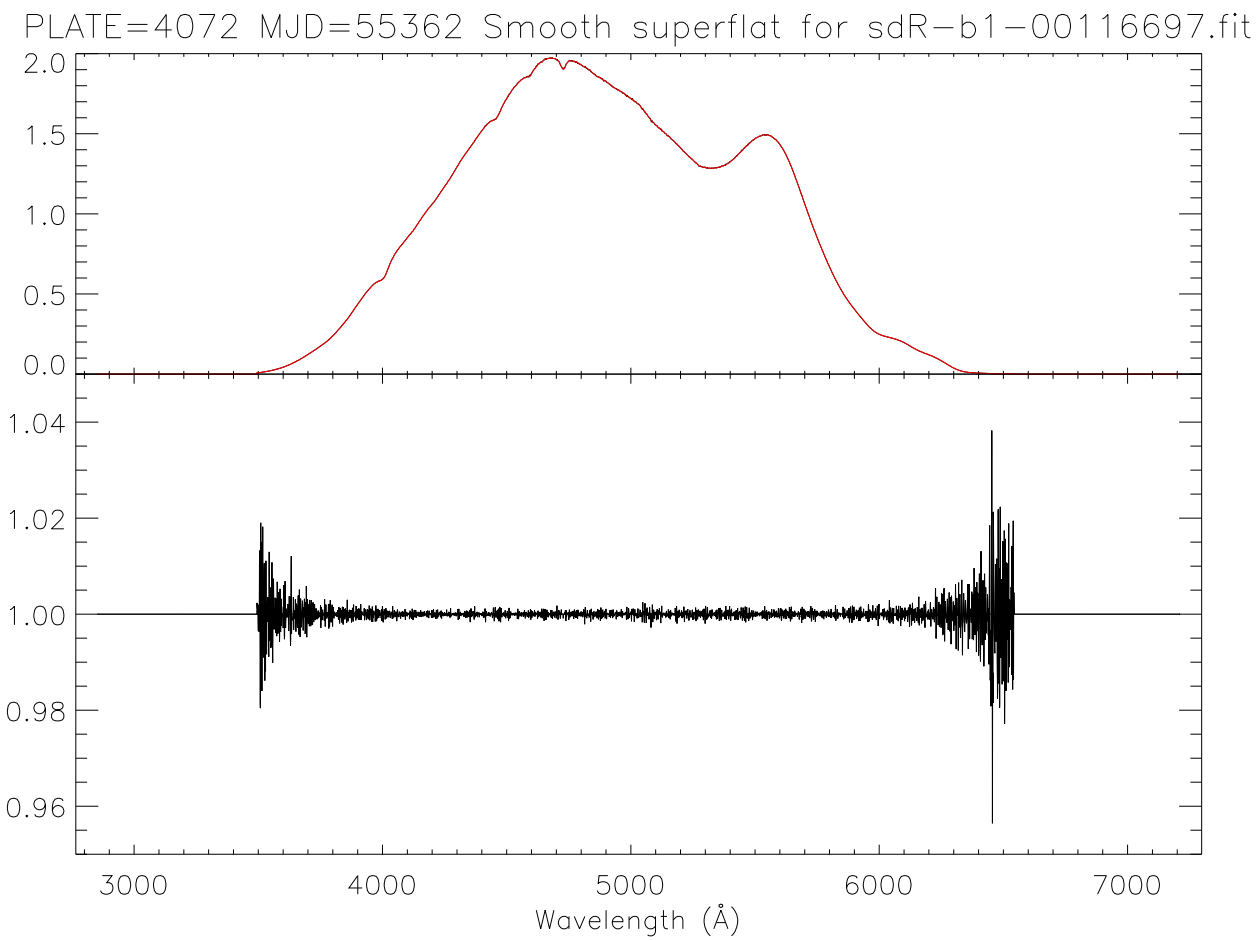

PLATE=4072 MJD=55362 sdR-b1-00116693.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 13.15 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

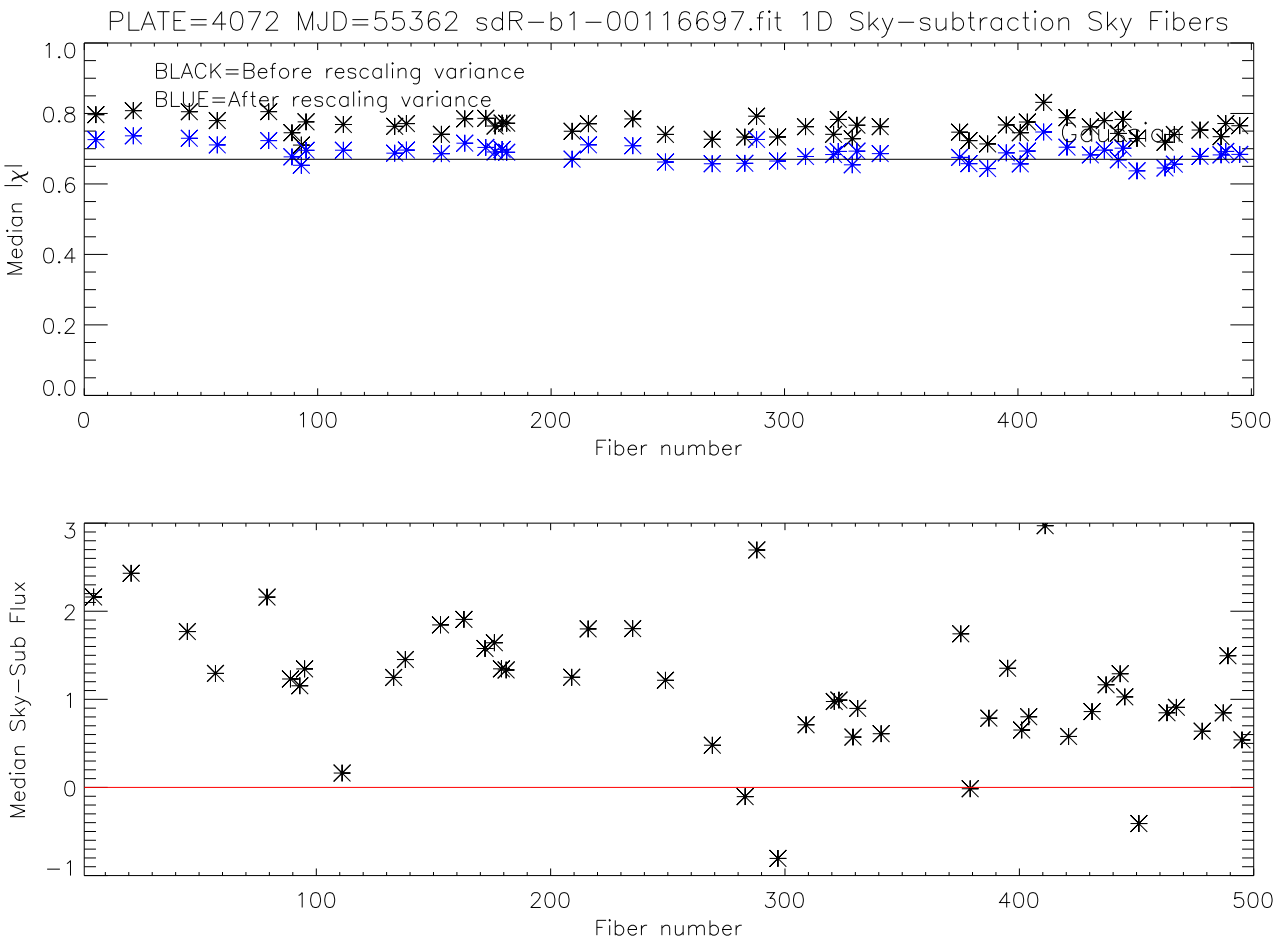

PLATE=4072 MJD=55362 sdR-b1-00116693.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.72 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

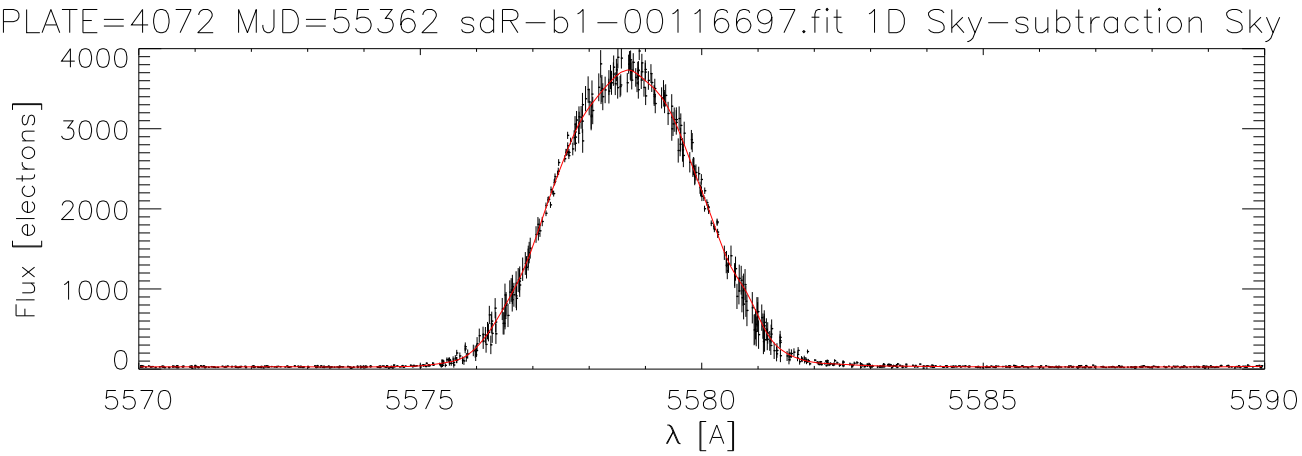

PLATE=4072 MJD=55362 Fiber−Flats for sdR−b1−00116695.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −29.211
Max value = 12.757
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sat Apr 12 08:54:49 2014

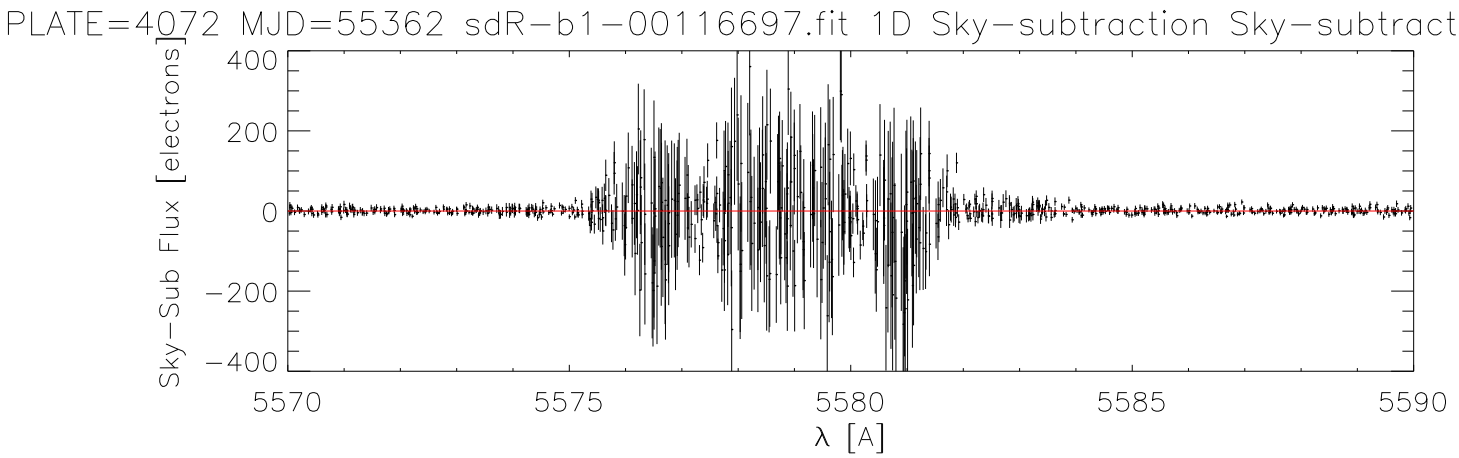

PLATE=4072 MJD=55362 Extraction chi$^2$ for sdR−b1−00116697.fit
BLACK = Final chisq extraction
$\chi^2$
1.5
1.0
0.5
0.0
0
1000
2000
3000
4000
Row number


PLATE=4072 MJD=55362 Sky Line Deviations for sdR-b1-00116697.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

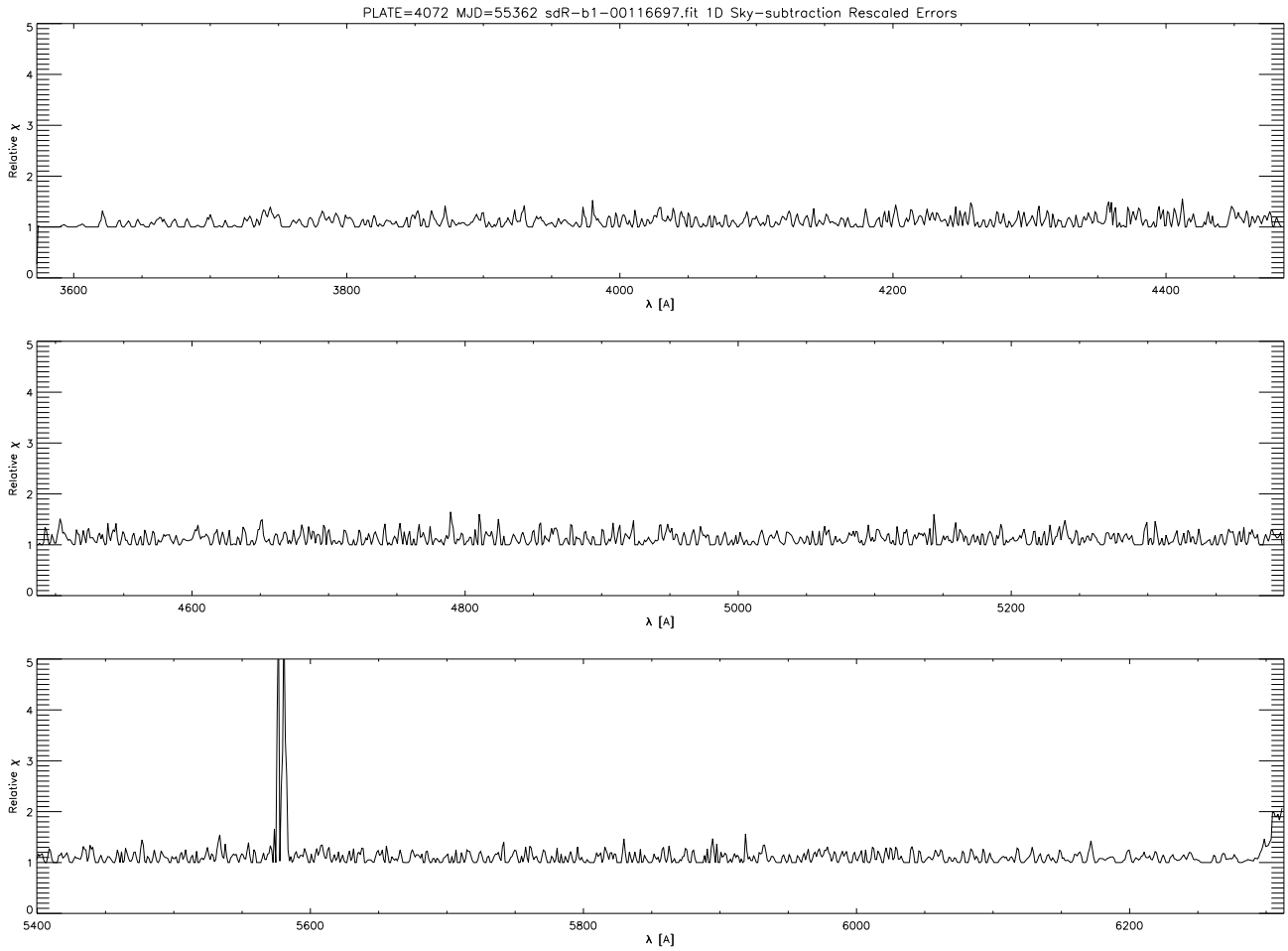

PLATE=4072 MJD=55362 Smooth superflat for sdR-b1-00116697.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

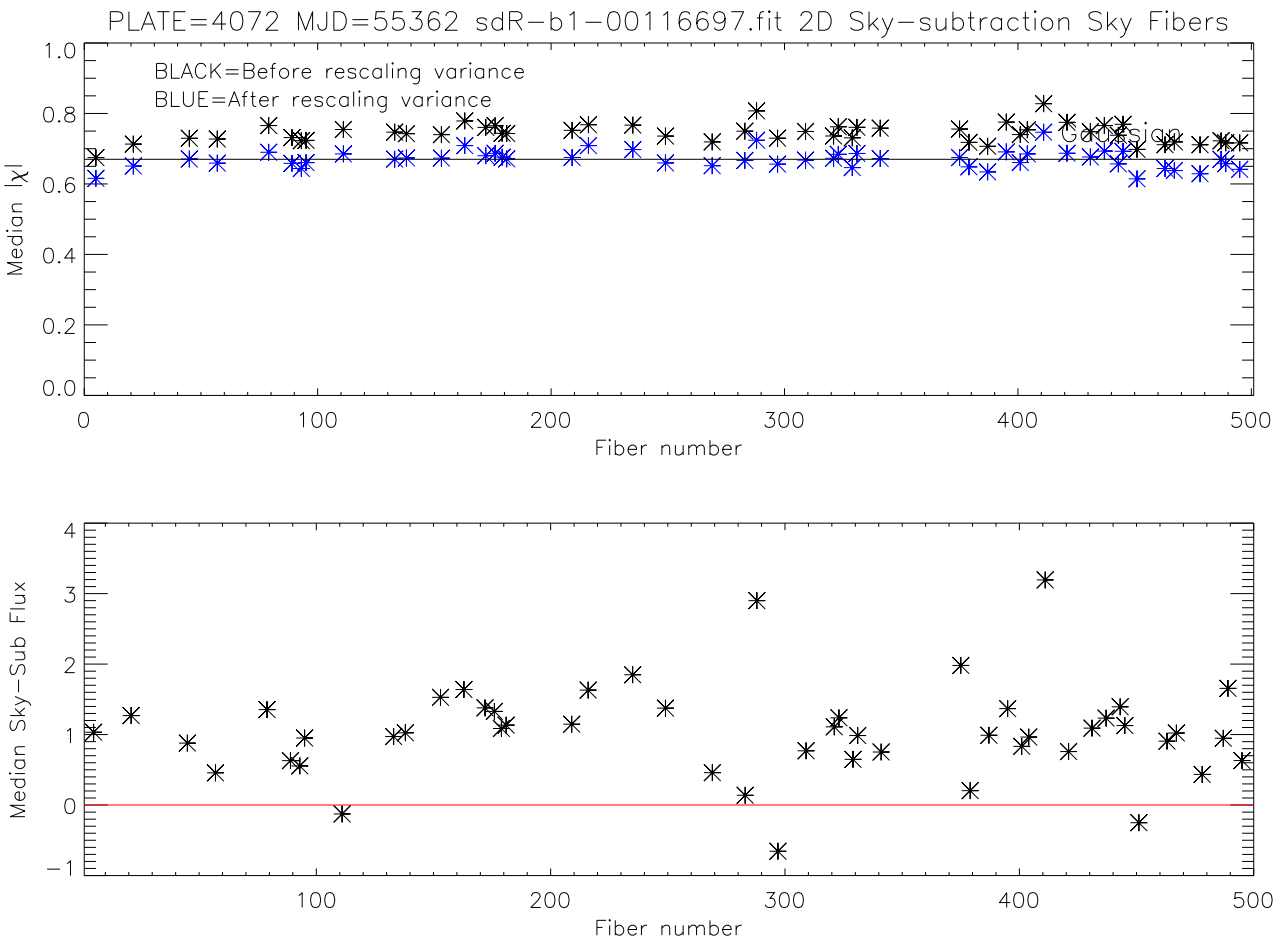

PLATE=4072 MJD=55362 sdR-b1-00116697.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

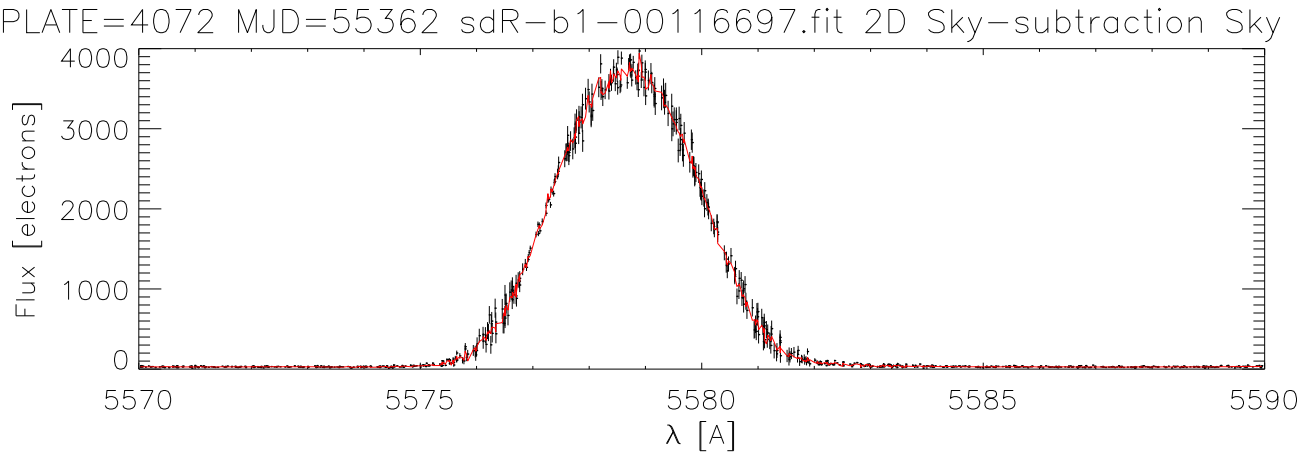

PLATE=4072 MJD=55362 sdR-b1-00116697.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

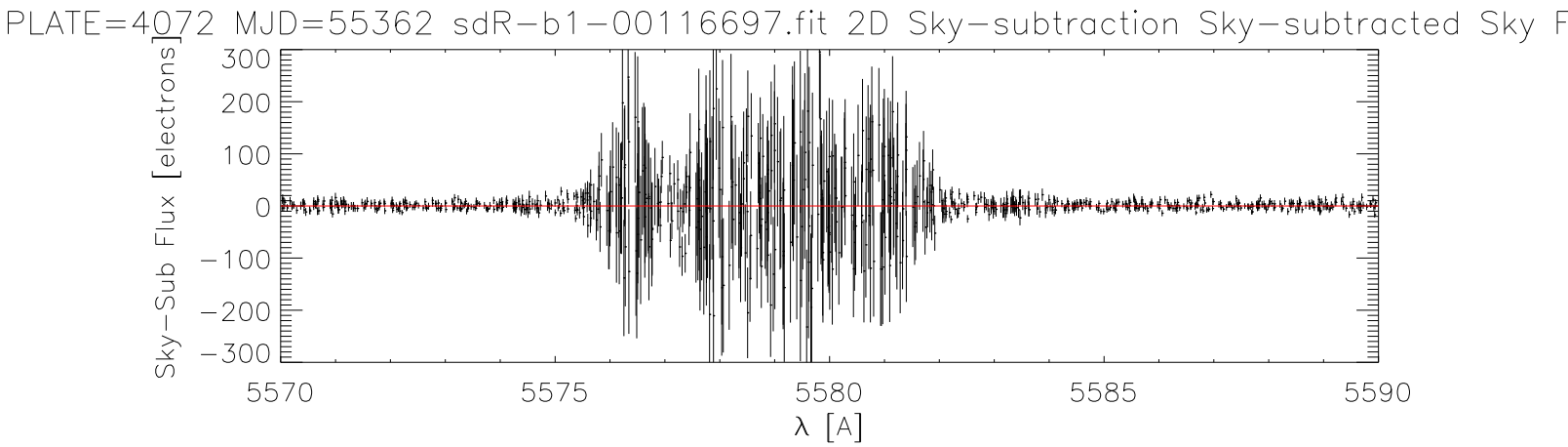

PLATE=4072 MJD=55362 sdR-b1-00116697.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 50

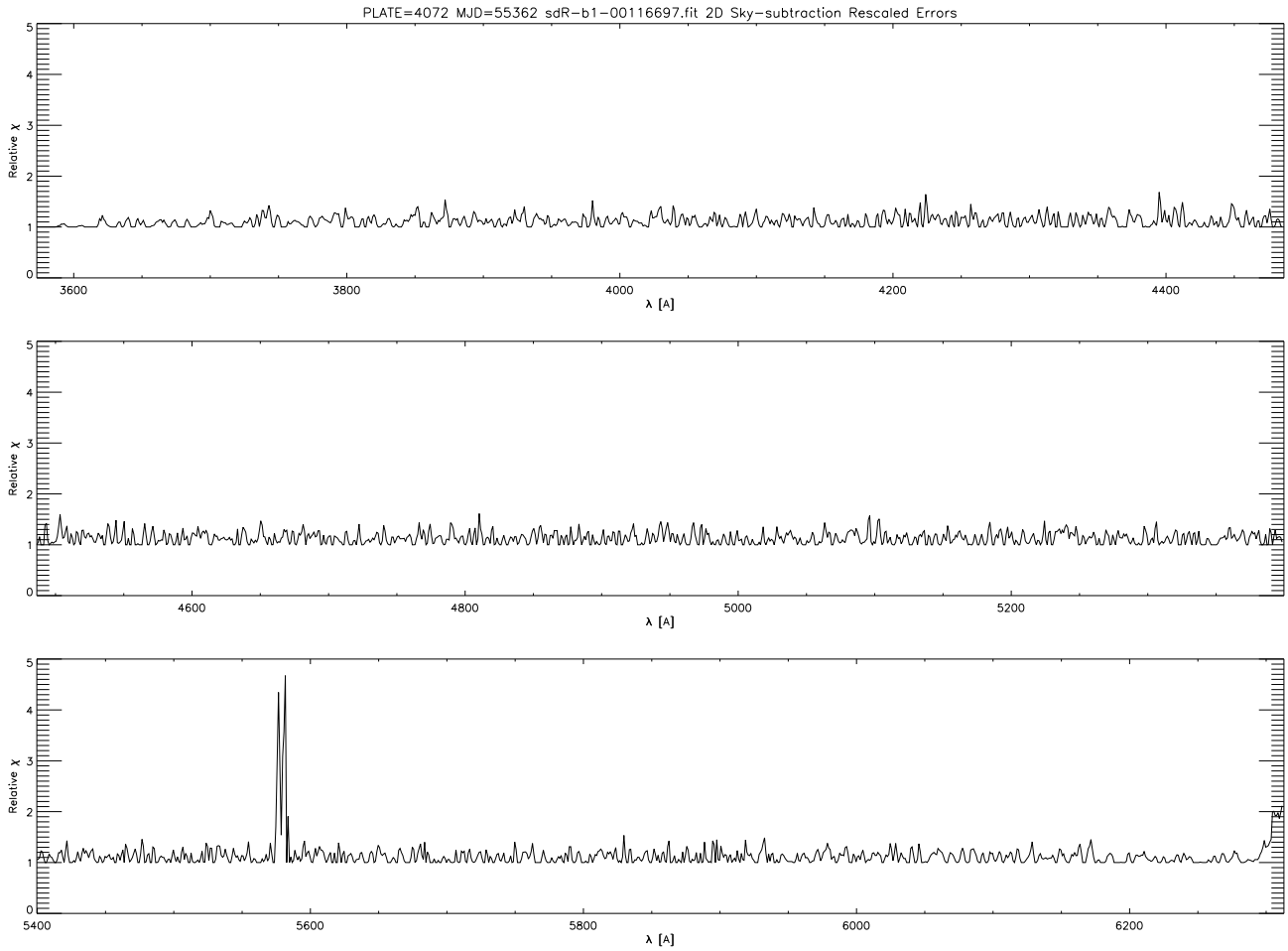


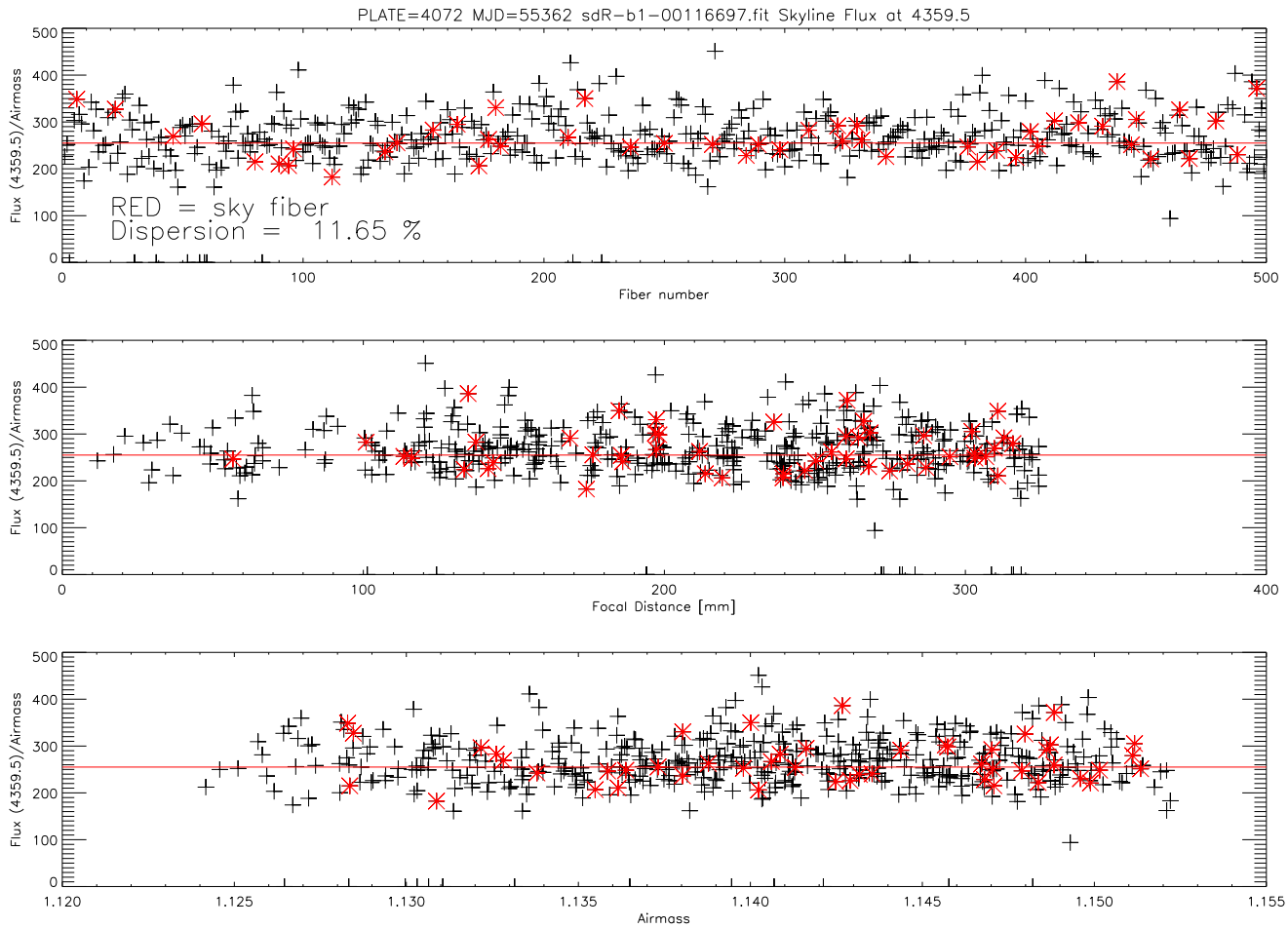

PLATE=4072 MJD=55362 sdR-b1-00116697.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

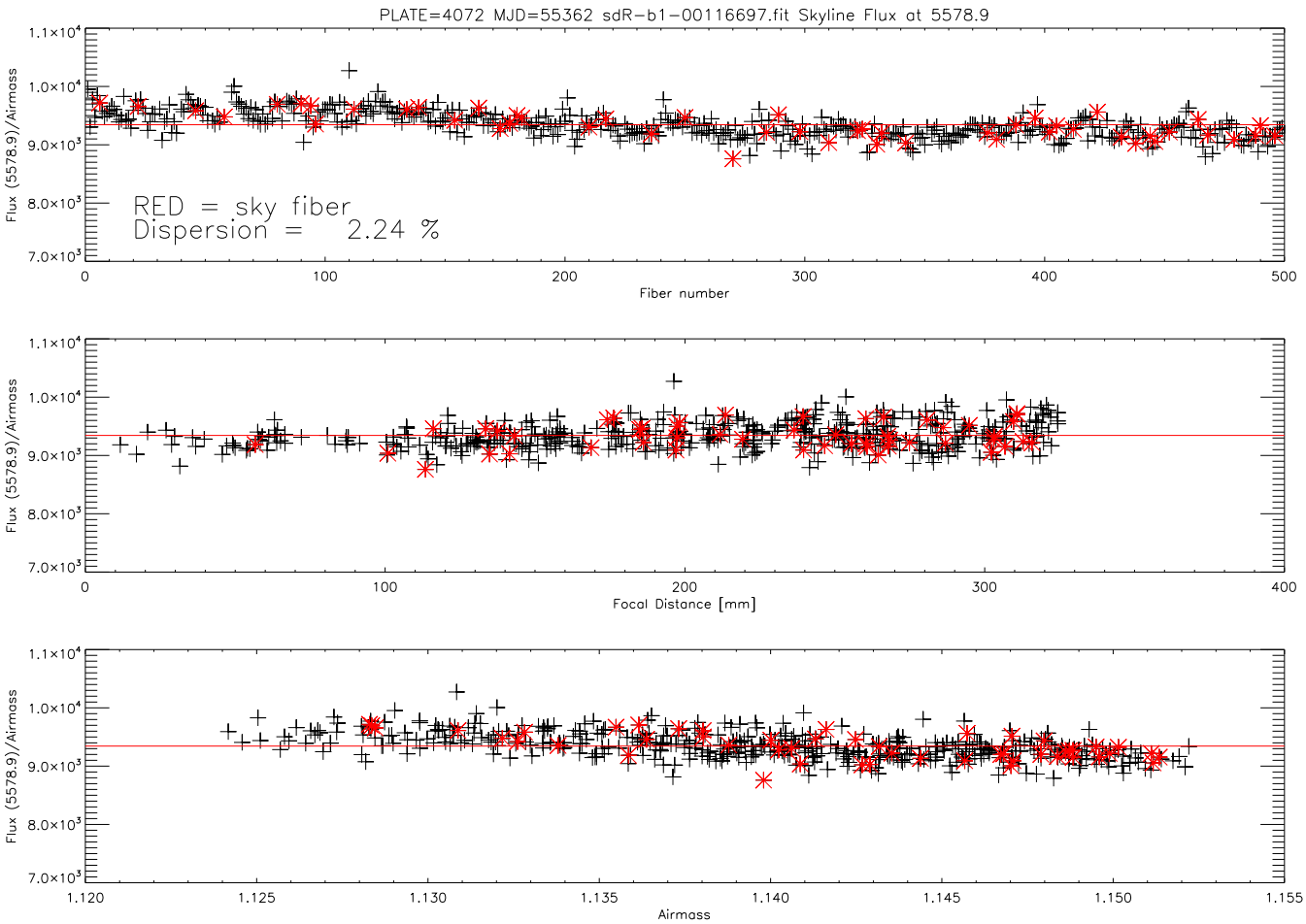

PLATE=4072 MJD=55362 sdR-b1-00116697.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]


PLATE=4072 MJD=55362 sdR-b1-00116697.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]

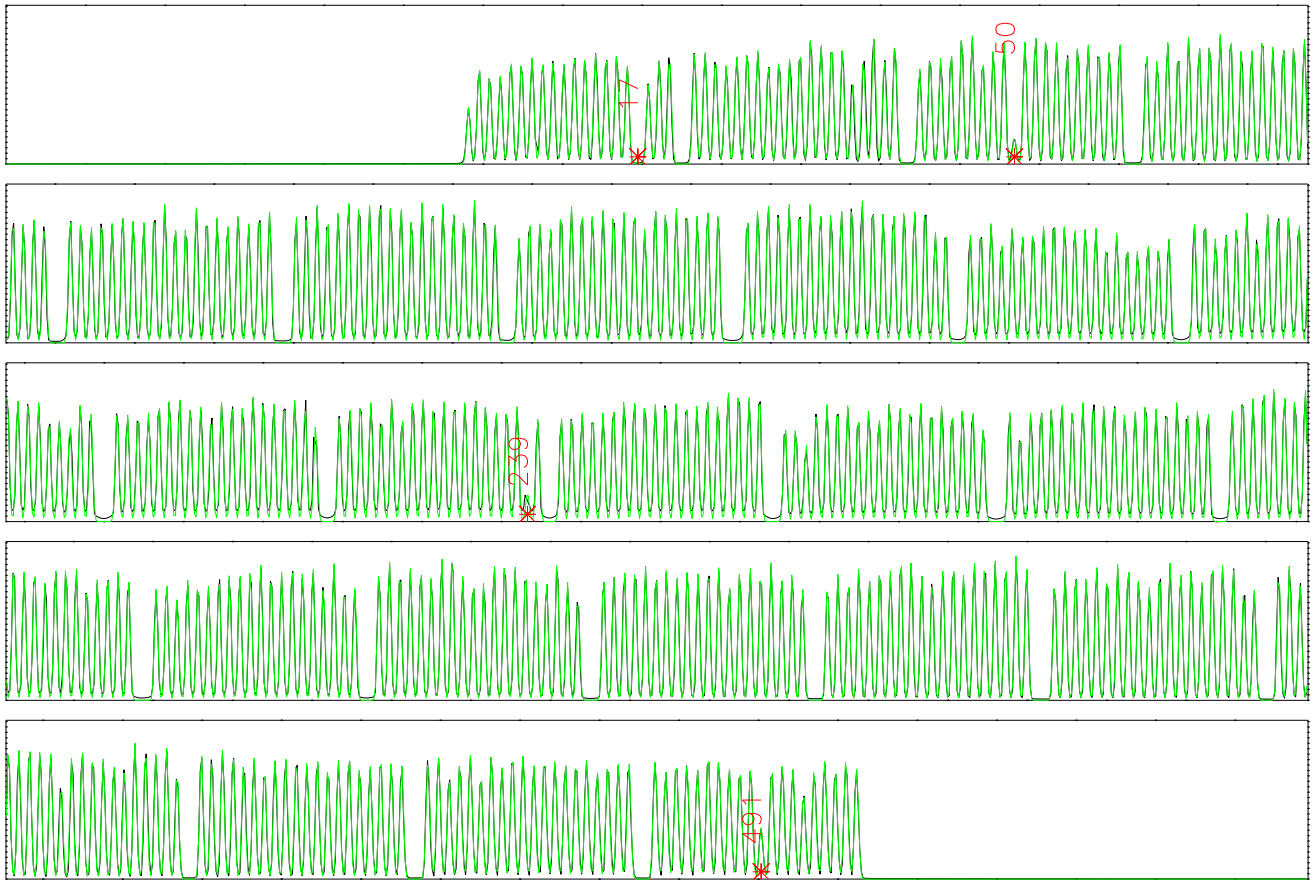
Number of sky fibers = 50



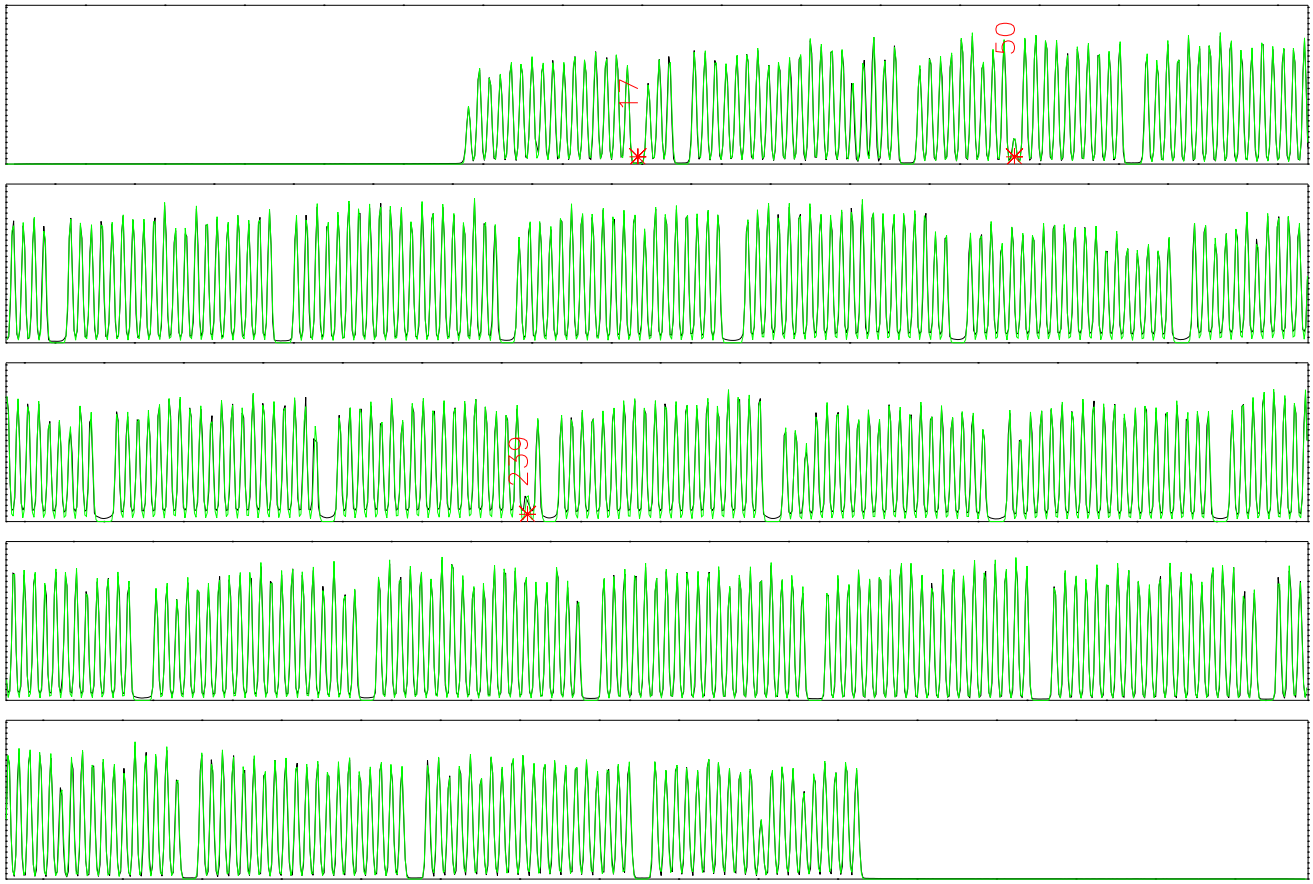

PLATE=4072 MJD=55362 sdR-b1-00116697.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 11.65 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

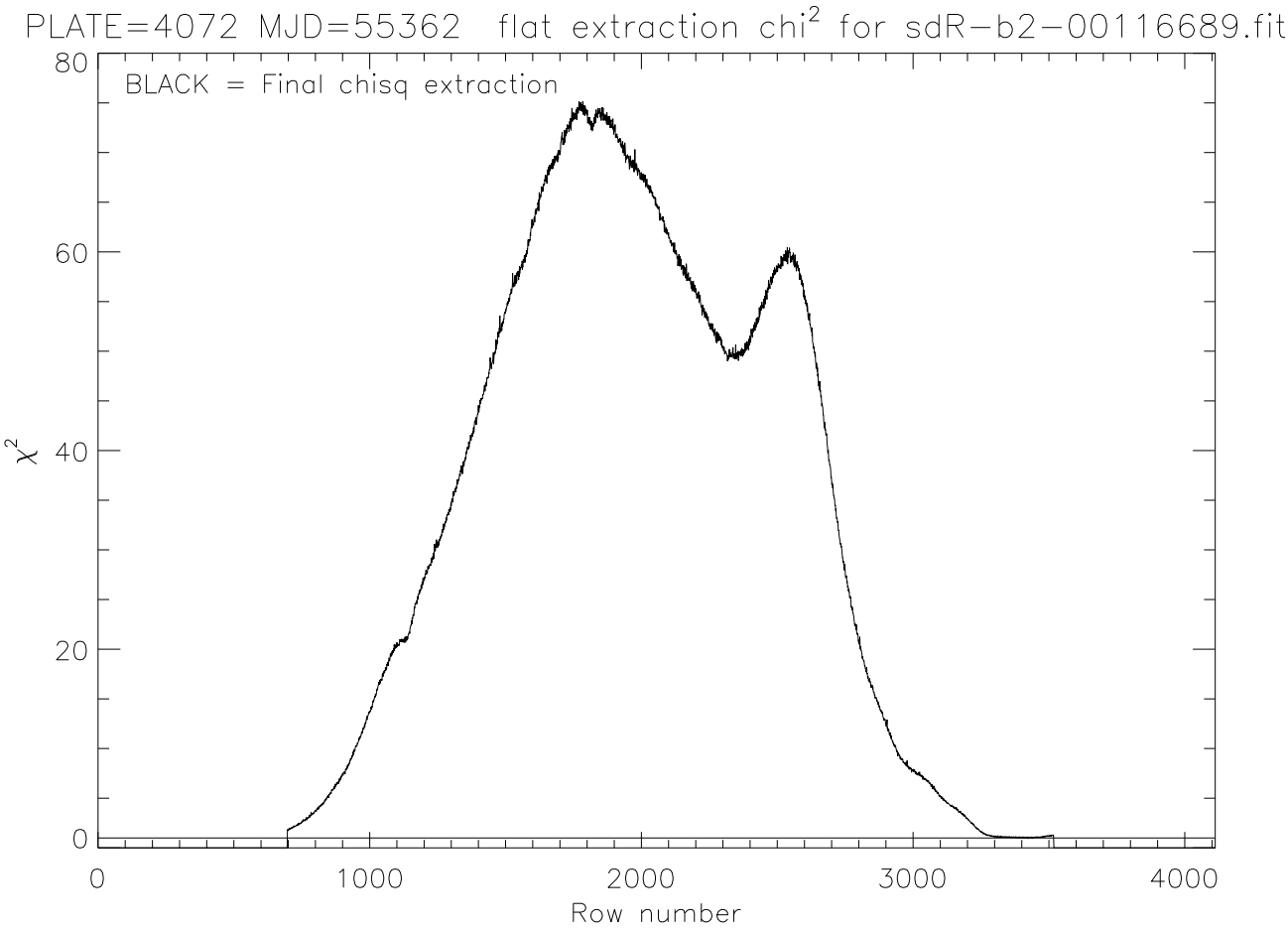

PLATE=4072 MJD=55362 sdR-b1-00116697.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.24 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

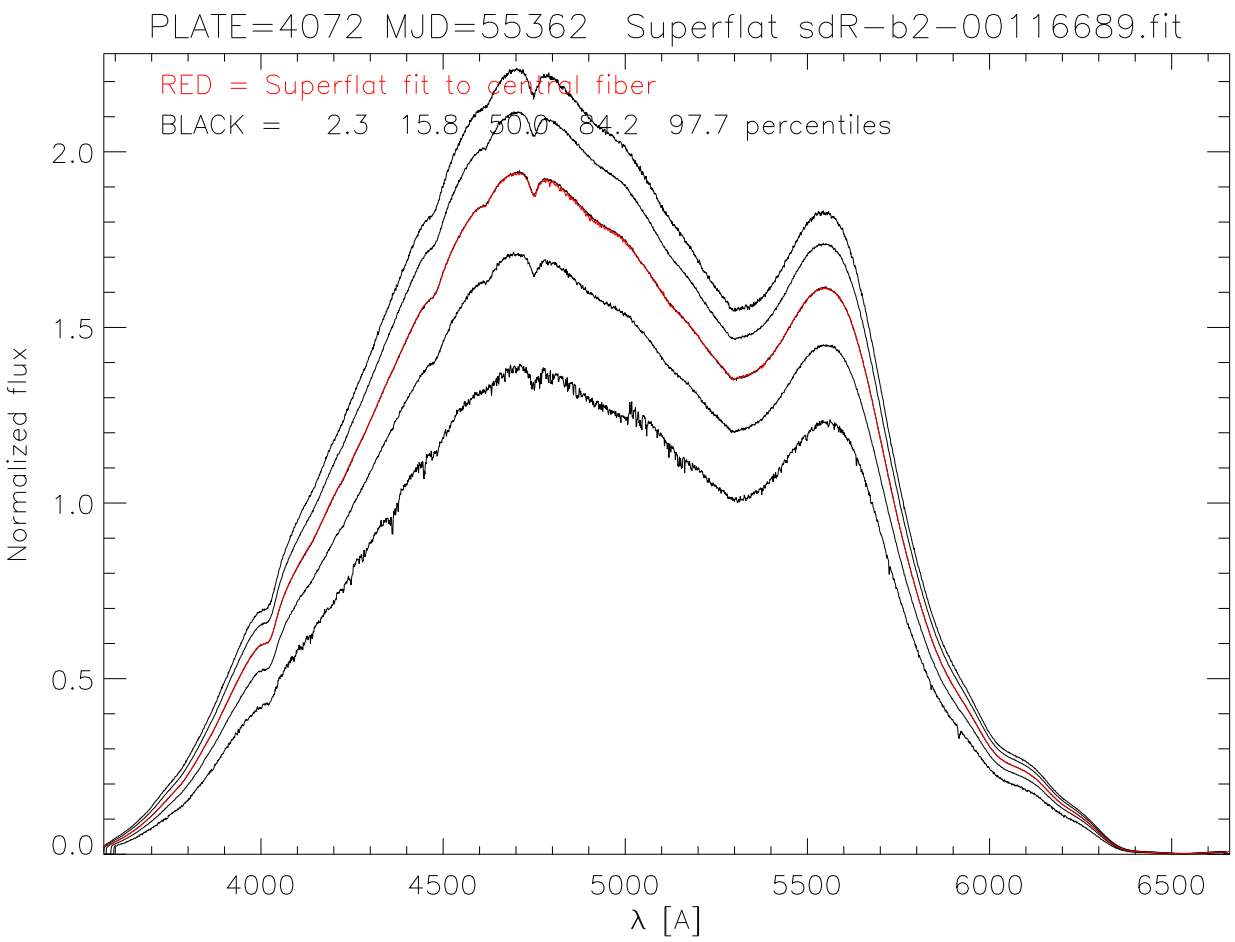
PLATE=4072 MJD=55362 Traces sdR-b2-00116689.fit

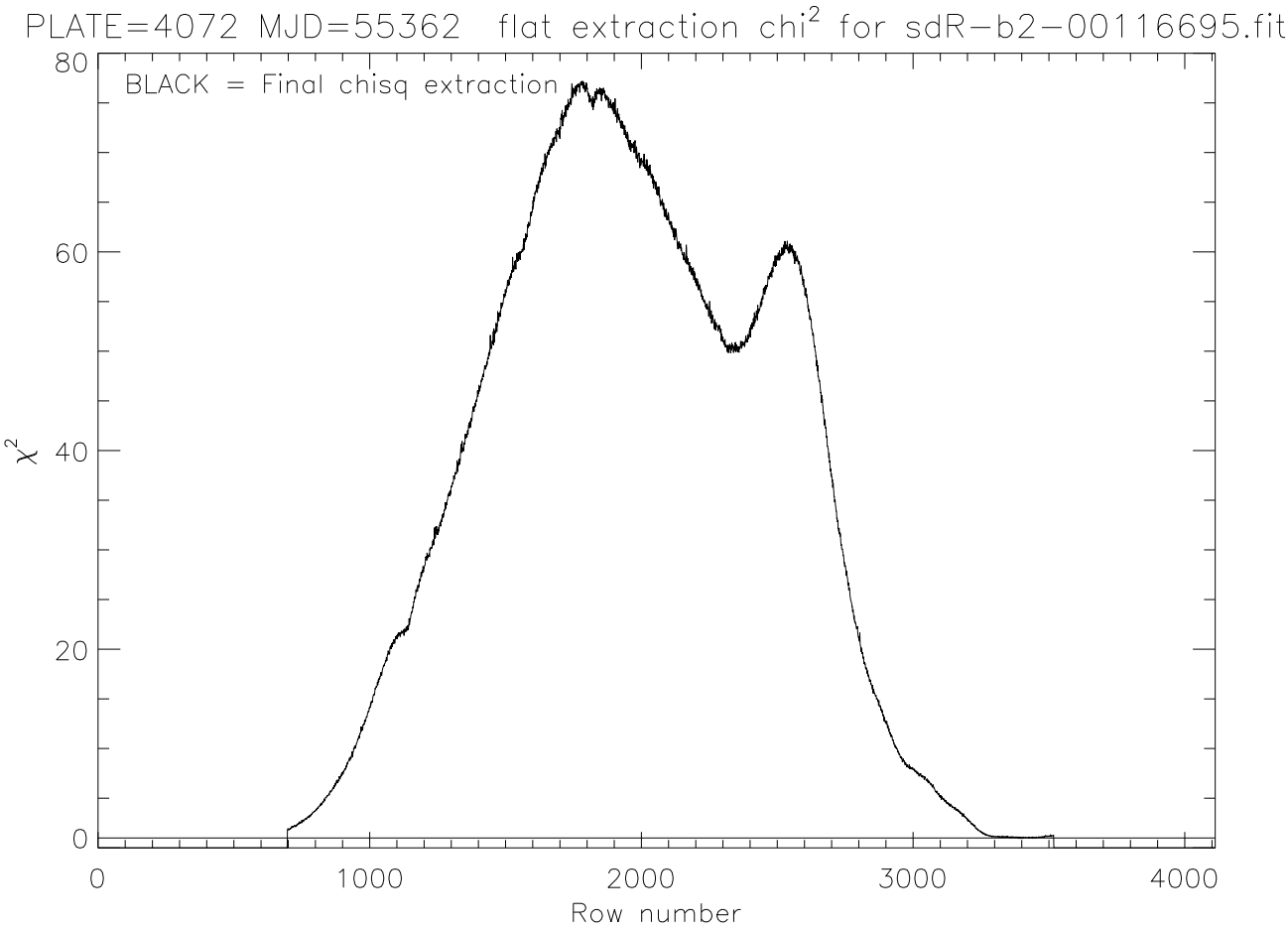


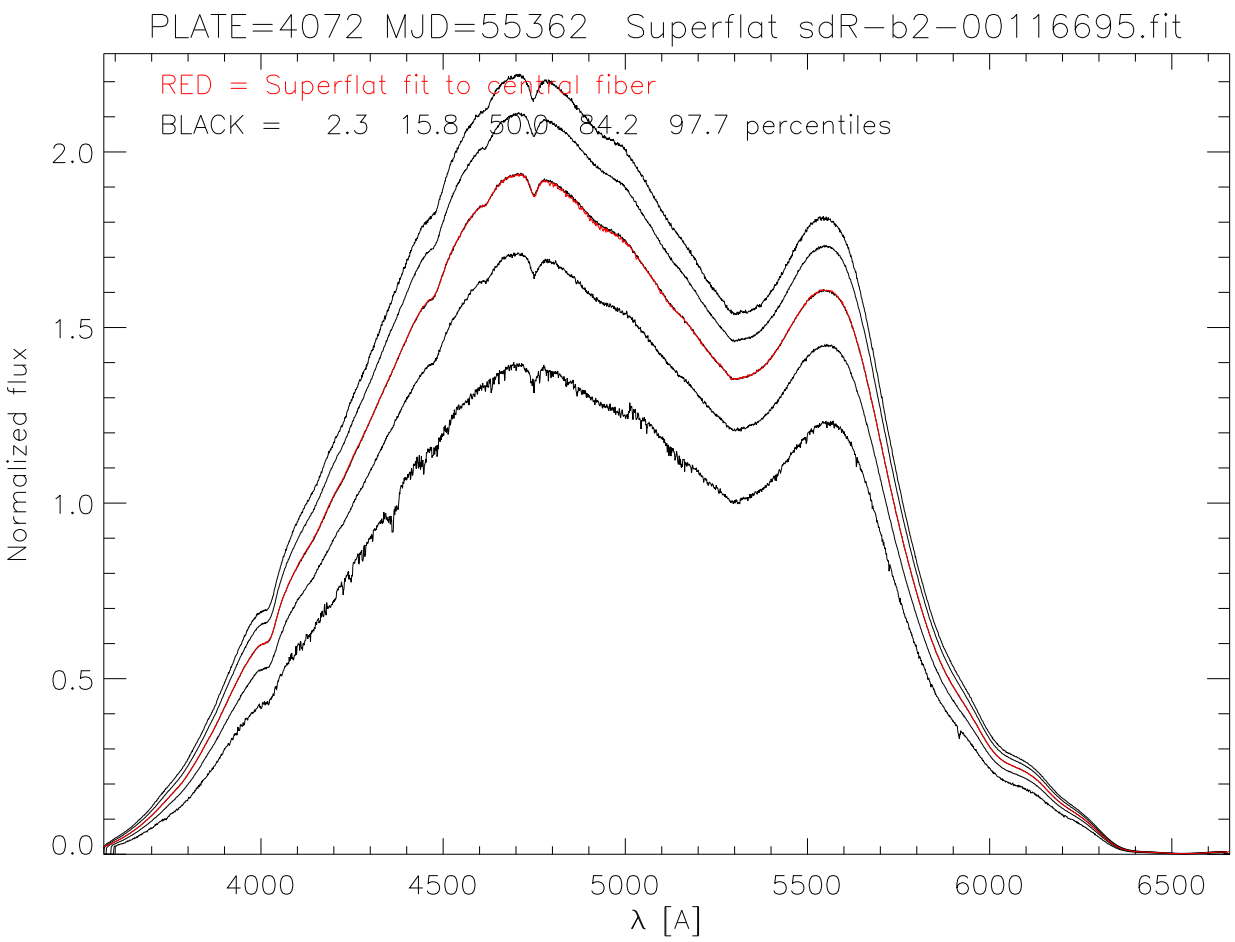
PLATE=4072 MJD=55362 Traces sdR-b2-00116695.fit

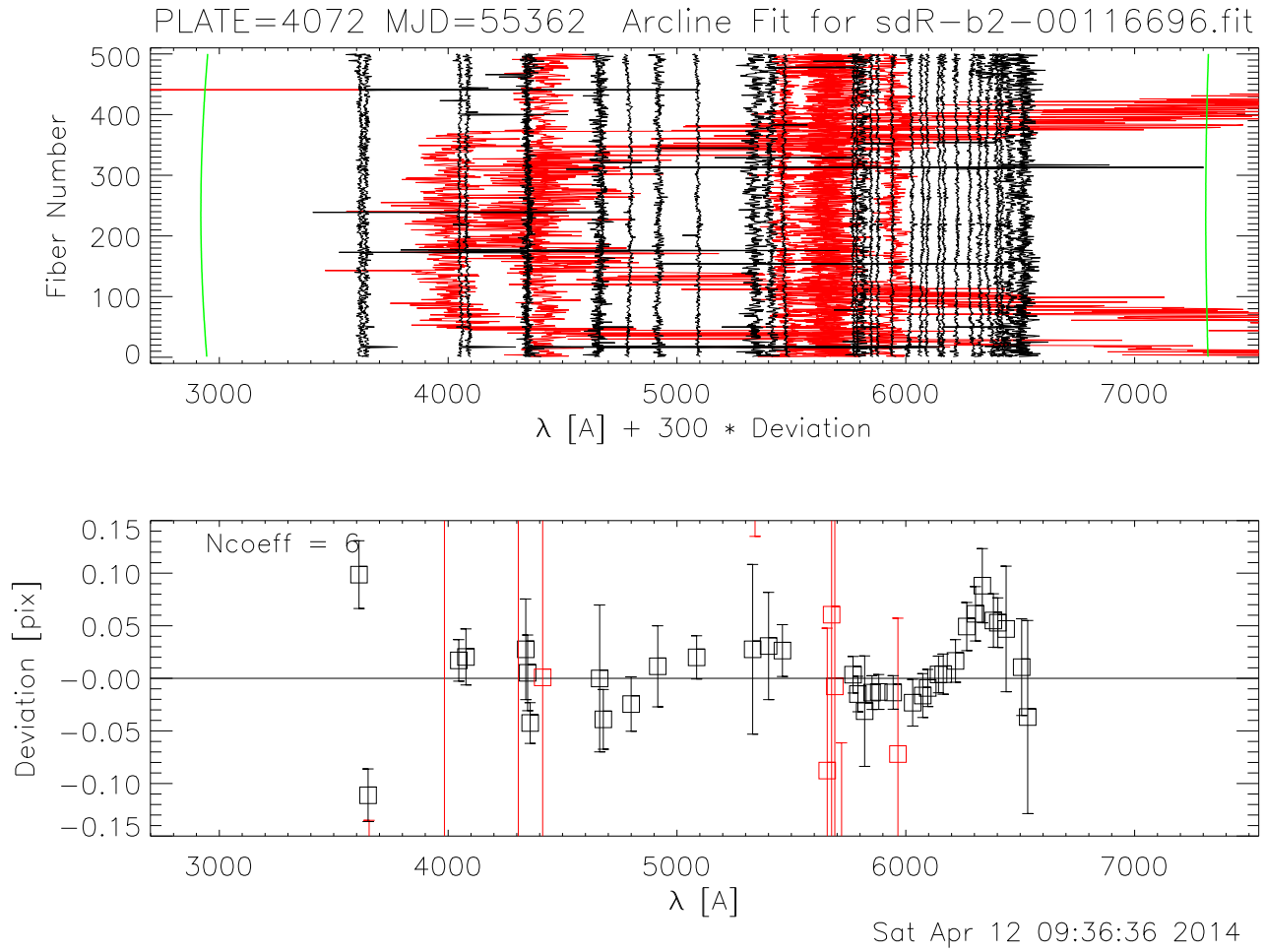


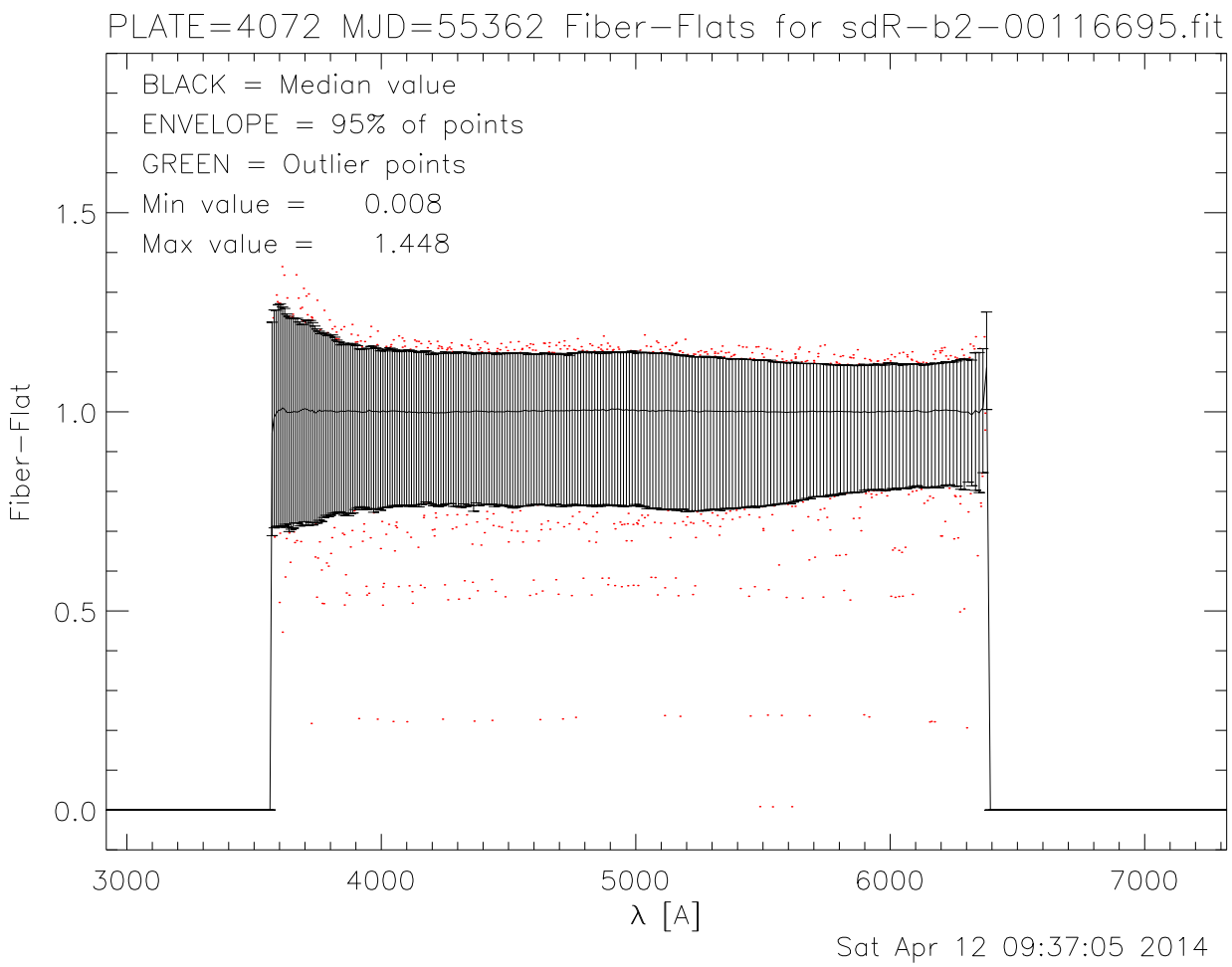

PLATE=4072 MJD=55362 flat extraction chi$^2$ for sdR−b2−00116689.fit
BLACK = Final chisq extraction
$\chi^2$
0
20
40
60
80
0
1000
2000
3000
4000
Row number

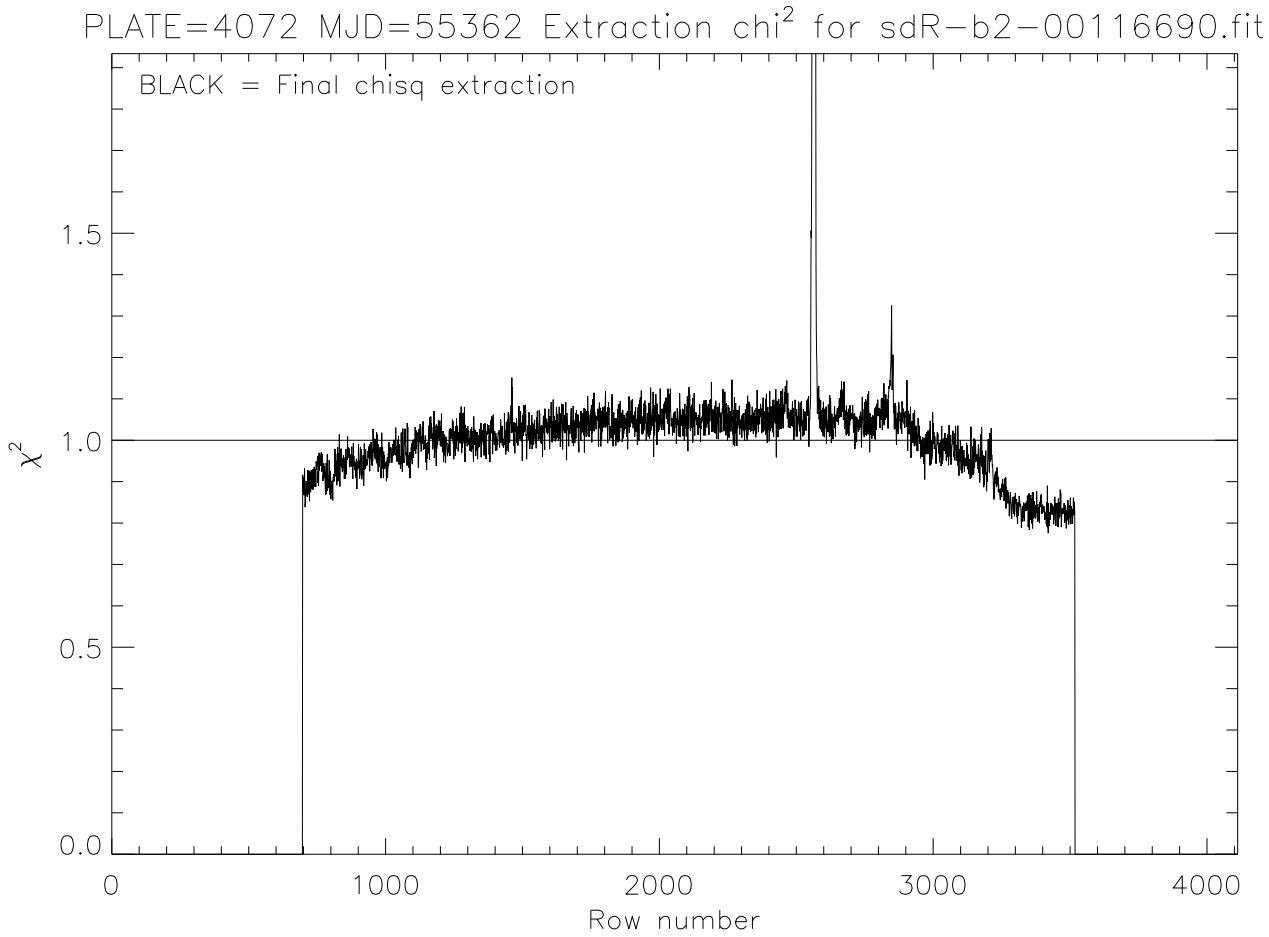

PLATE=4072 MJD=55362 Superflat sdR-b2-00116689.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
4000
4500
5000
5500
6000
6500

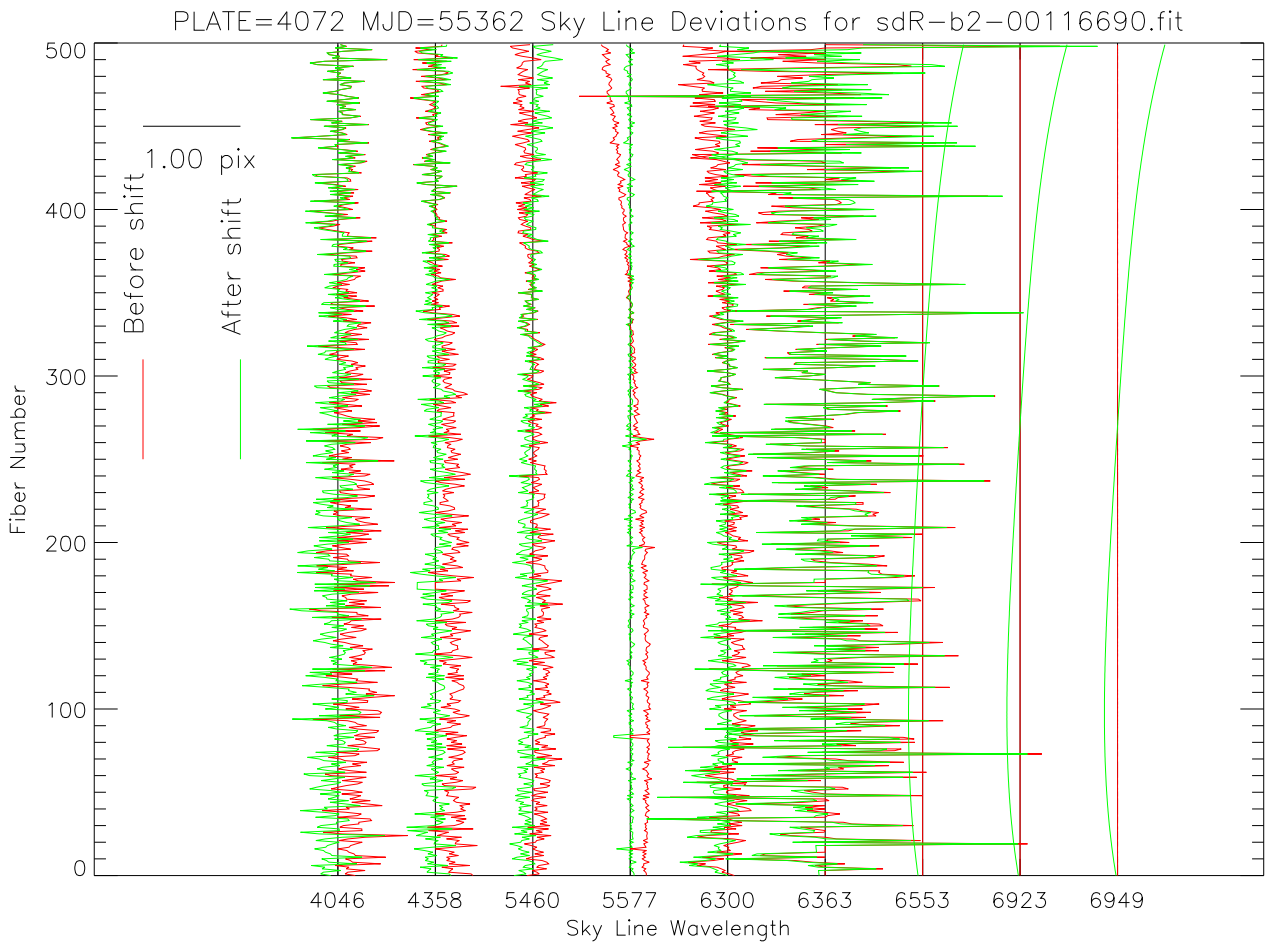

PLATE=4072 MJD=55362 flat extraction chi$^2$ for sdR−b2−00116695.fit
BLACK = Final chisq extraction
$\chi^2$
0
20
40
60
80
0
1000
2000
3000
4000
Row number

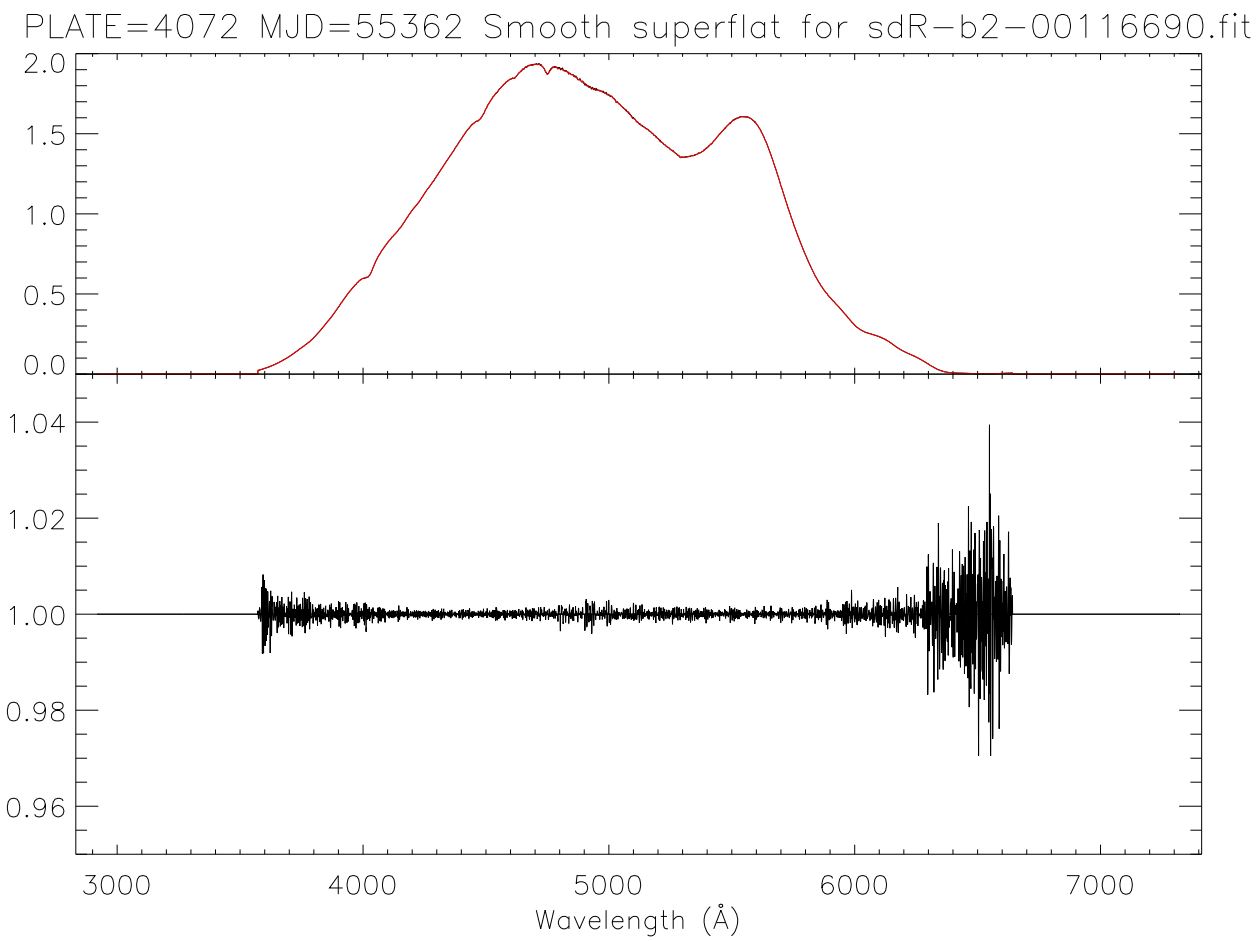

PLATE=4072 MJD=55362 Superflat sdR-b2-00116695.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
4000
4500
5000
5500
6000
6500

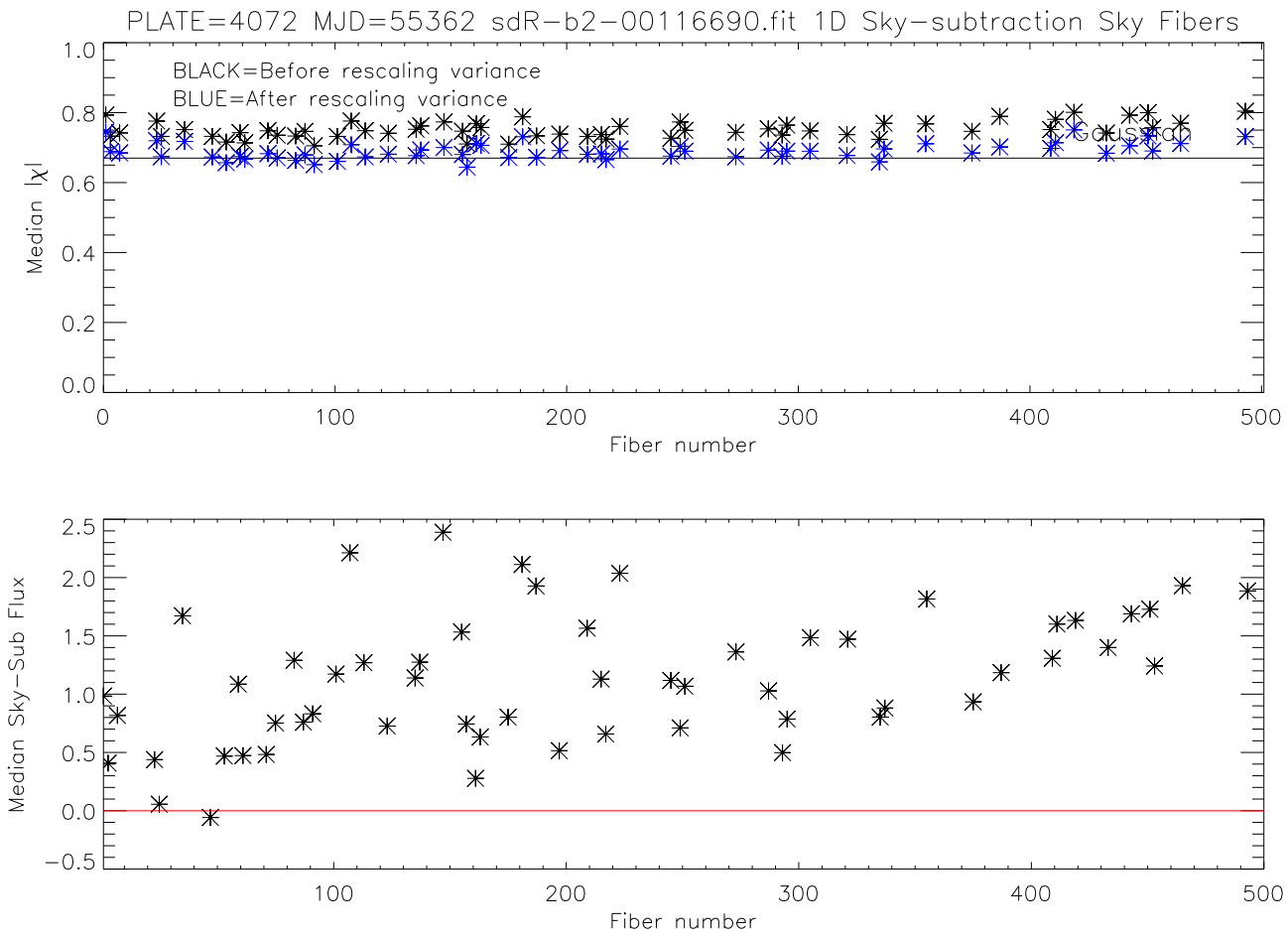

PLATE=4072 MJD=55362 Arcline Fit for sdR-b2-00116696.fit
Fiber Number
500
400
300
200
100
0
3000
4000
5000
6000
7000
λ [A] + 300 * Deviation
Ncoeff = 6
Deviation [pix]
0.15
0.10
0.05
−0.00
−0.05
−0.10
−0.15
3000
4000
5000
6000
7000
λ [A]
Sat Apr 12 09:36:36 2014

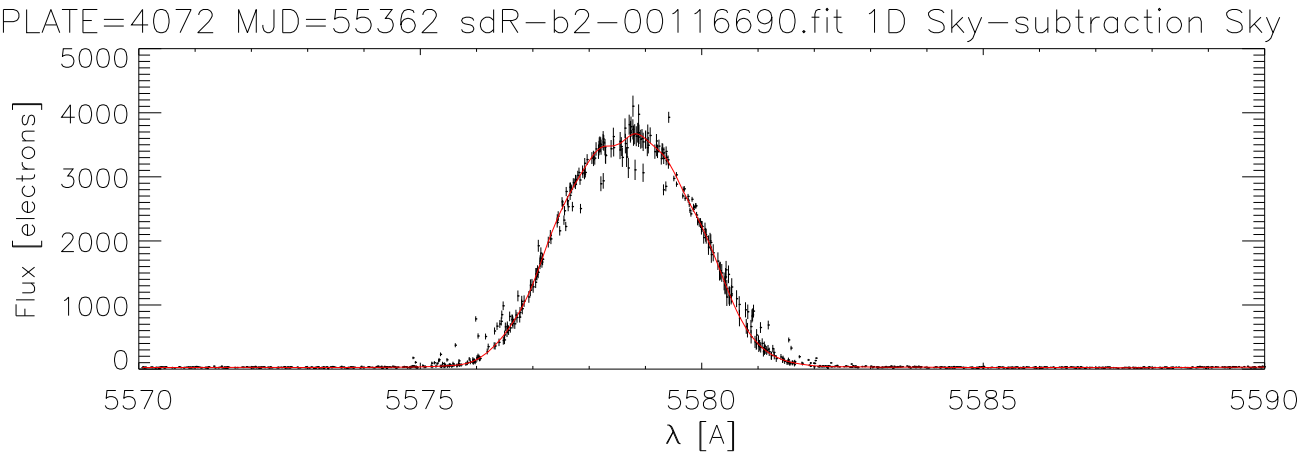

PLATE=4072 MJD=55362 Fiber-Flats for sdR-b2-00116695.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = 0.008
Max value = 1.448
Fiber-Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sat Apr 12 09:37:05 2014

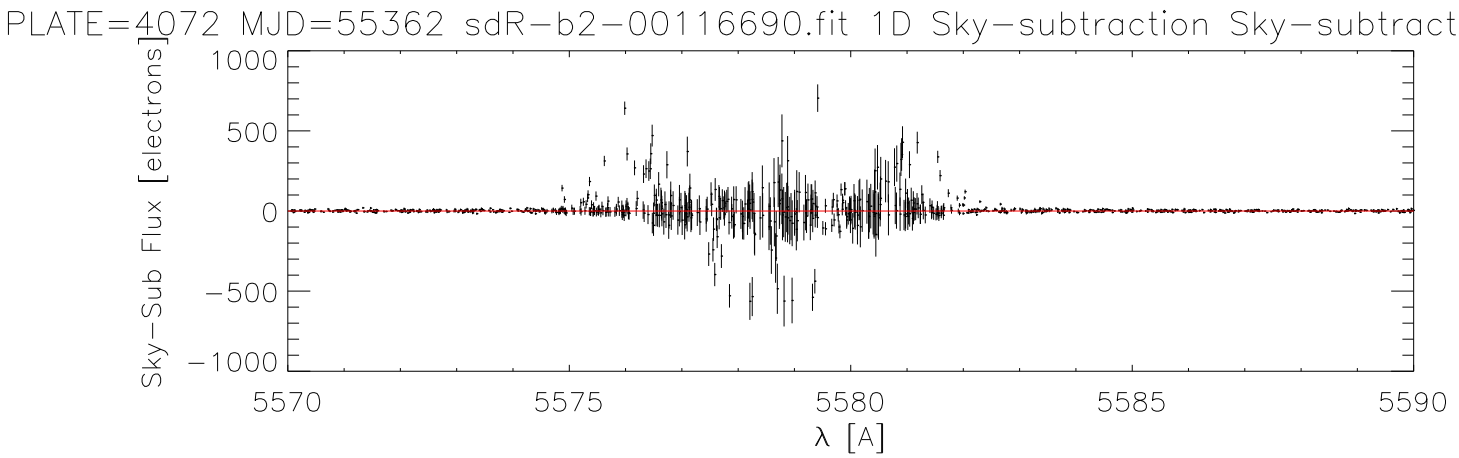

PLATE=4072 MJD=55362 Extraction chi$^2$ for sdR−b2−00116690.fit
BLACK = Final chisq extraction
$\chi^2$
1.5
1.0
0.5
0.0
0
1000
2000
3000
4000
Row number


PLATE=4072 MJD=55362 Sky Line Deviations for sdR-b2-00116690.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

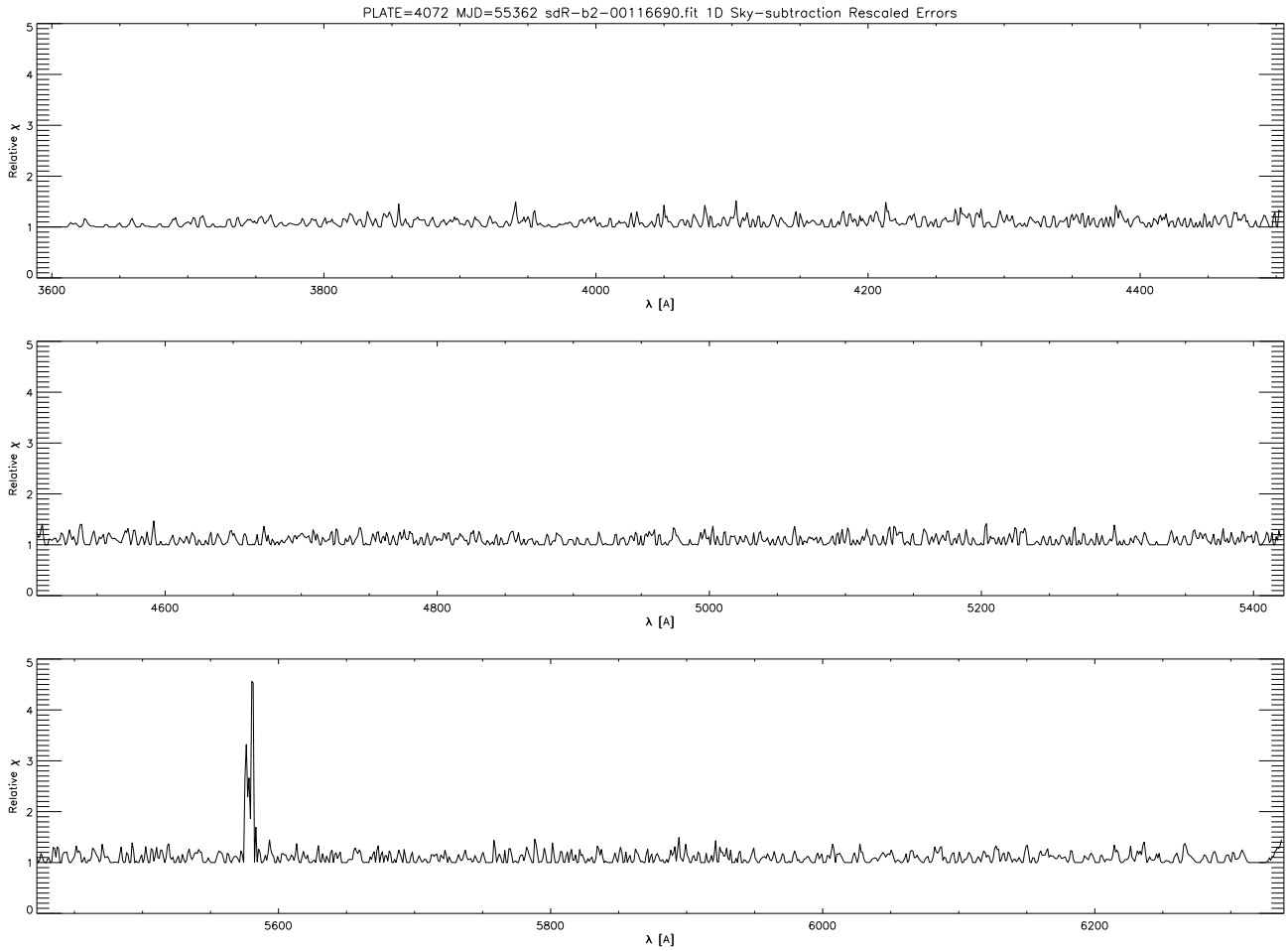

PLATE=4072 MJD=55362 Smooth superflat for sdR-b2-00116690.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

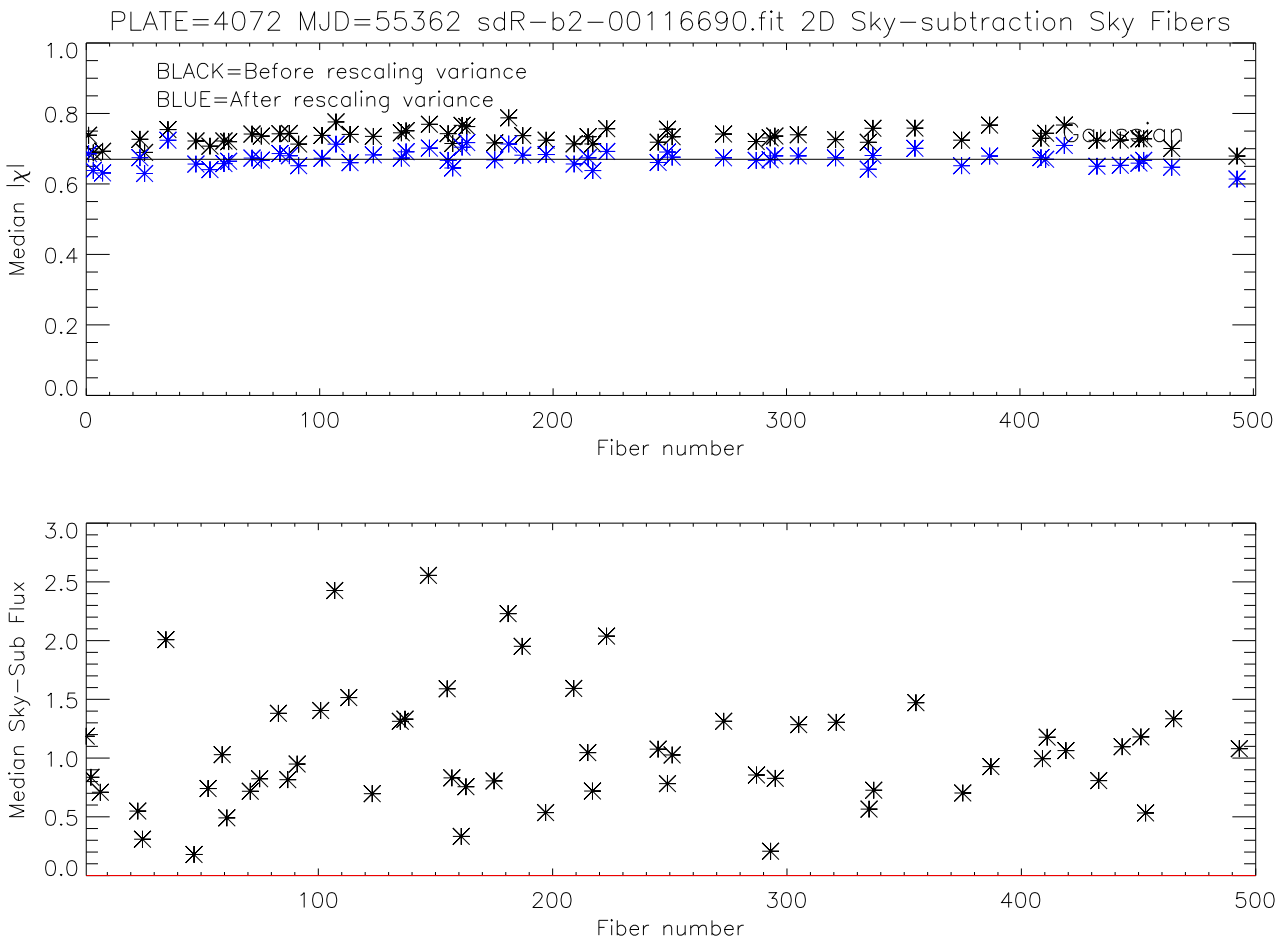

PLATE=4072 MJD=55362 sdR-b2-00116690.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number


PLATE=4072 MJD=55362 sdR-b2-00116690.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

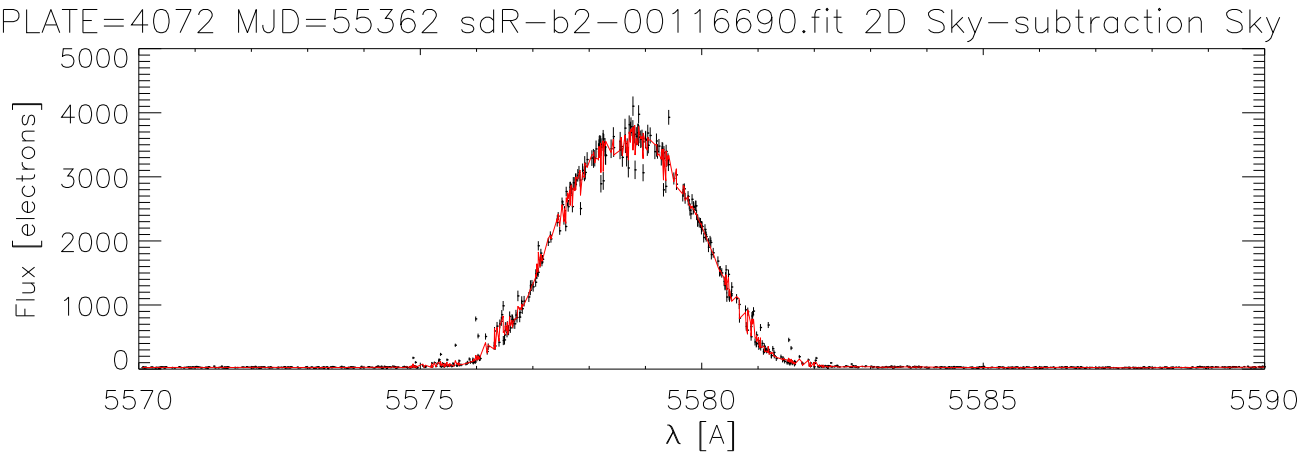

PLATE=4072 MJD=55362 sdR-b2-00116690.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
500
0
-500
-1000
5570
5575
5580
5585
5590
λ [A]

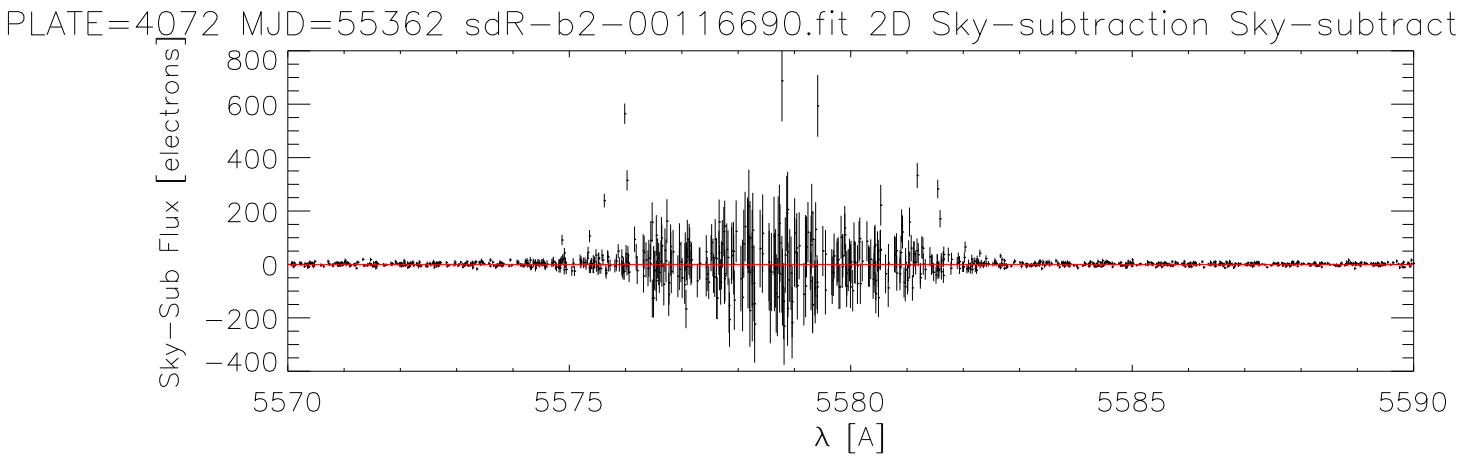
Number of sky fibers = 57



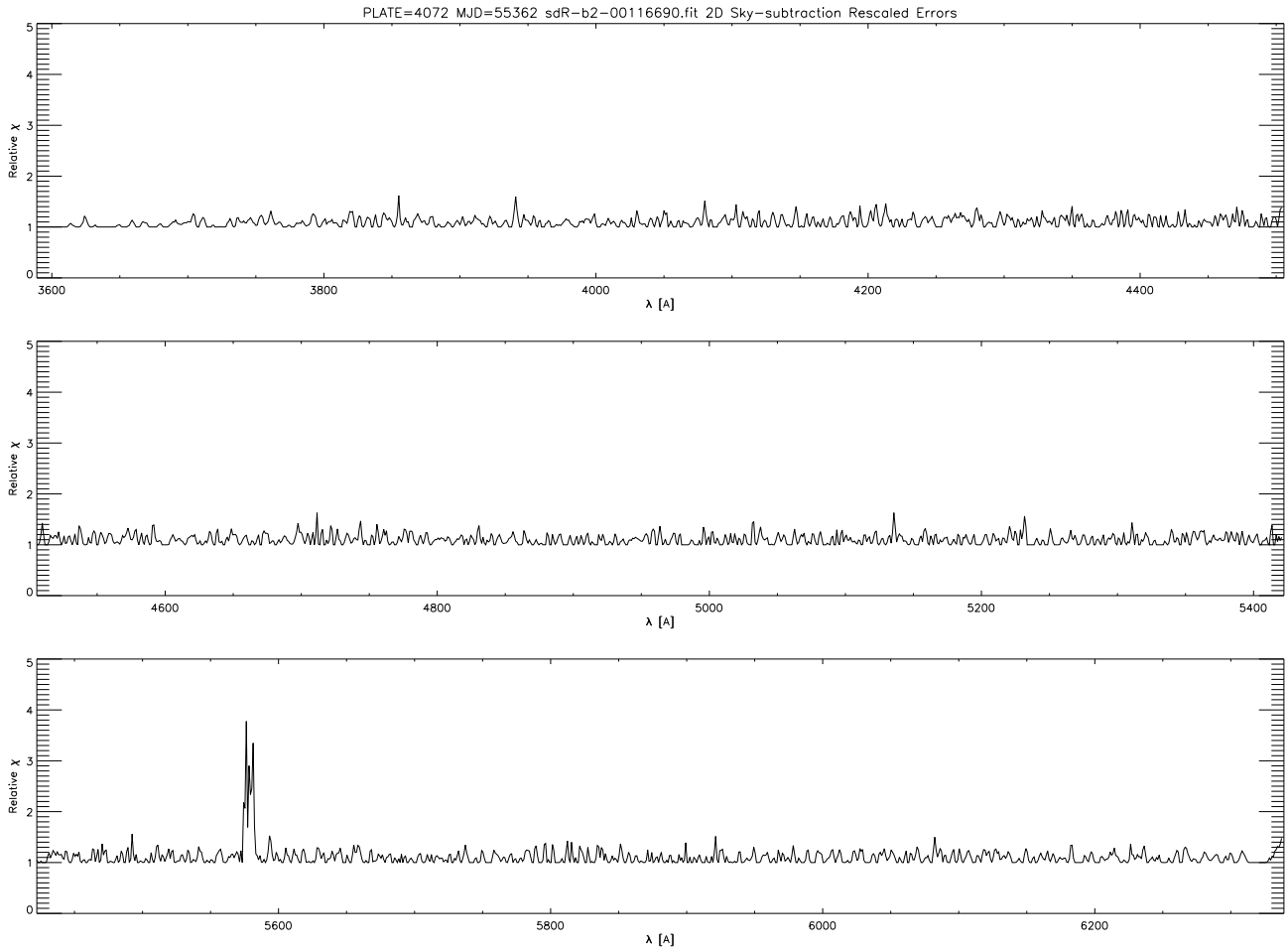

PLATE=4072 MJD=55362 sdR-b2-00116690.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Median |χ|
Fiber number
1.0
0.8
0.6
0.4
0.2
0.0
0
100
200
300
400
500

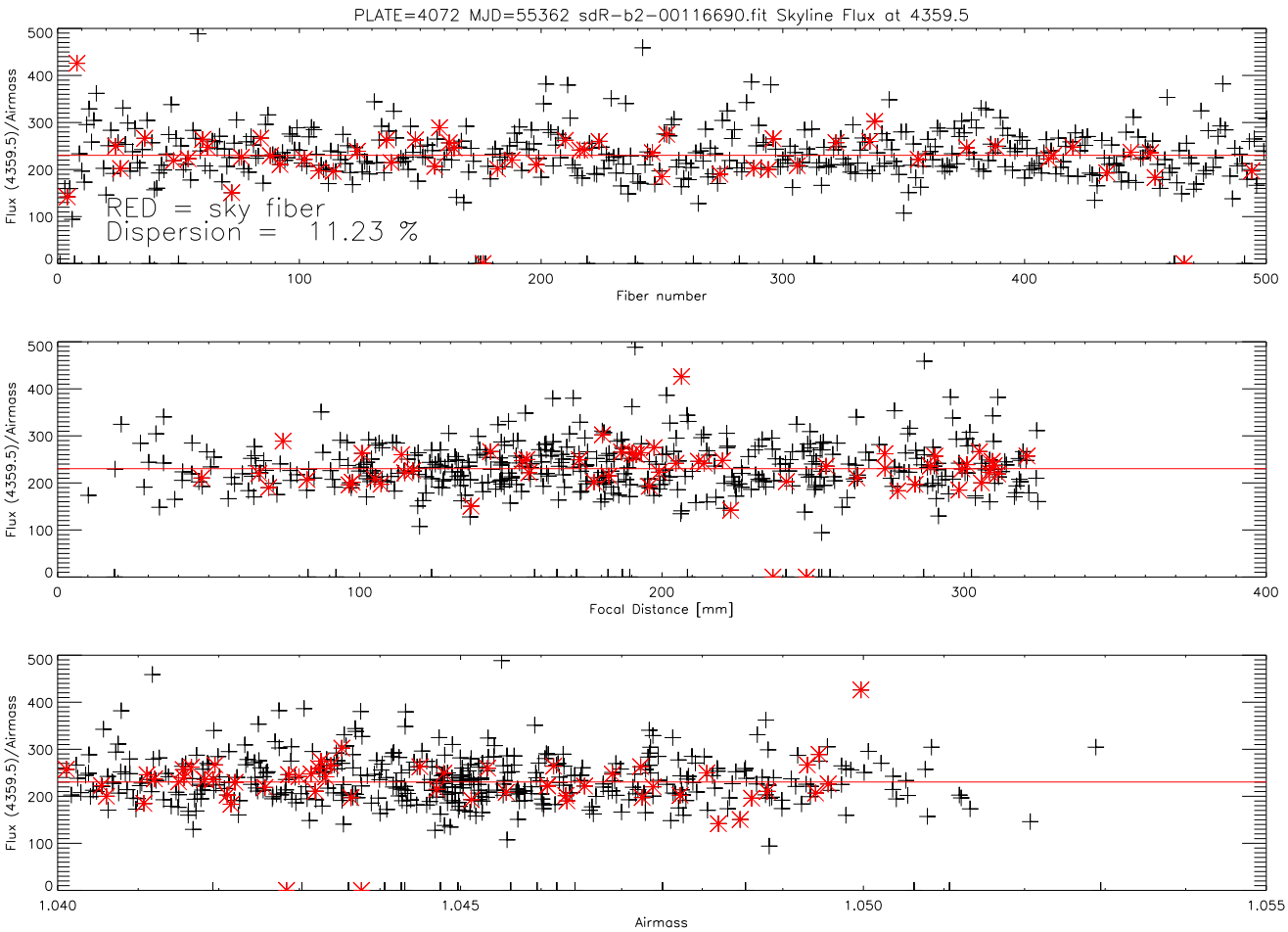

Median Sky-Sub Flux
Fiber number
3.0
2.5
2.0
1.5
1.0
0.5
0.0
100
200
300
400
500

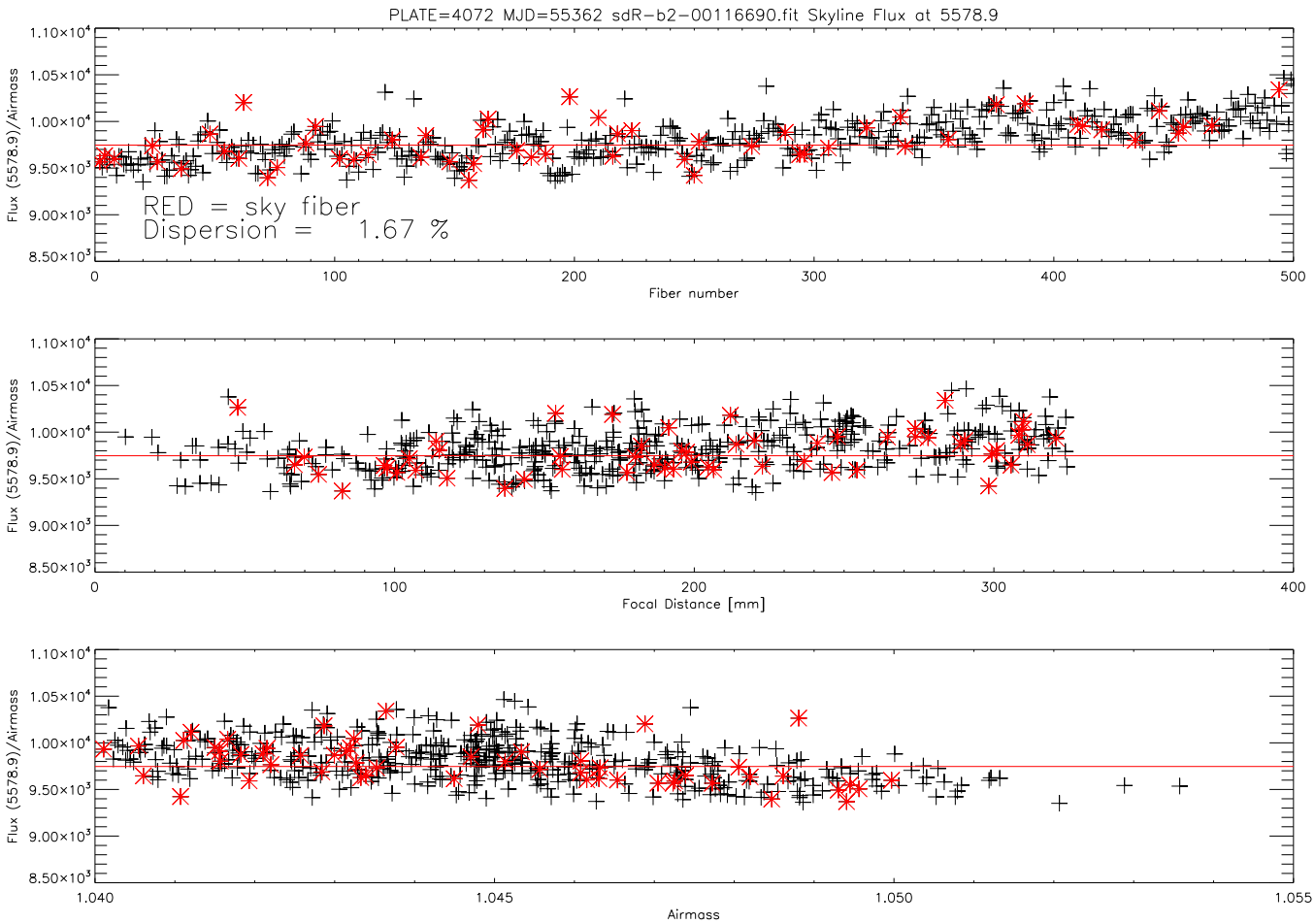

PLATE=4072 MJD=55362 sdR-b2-00116690.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

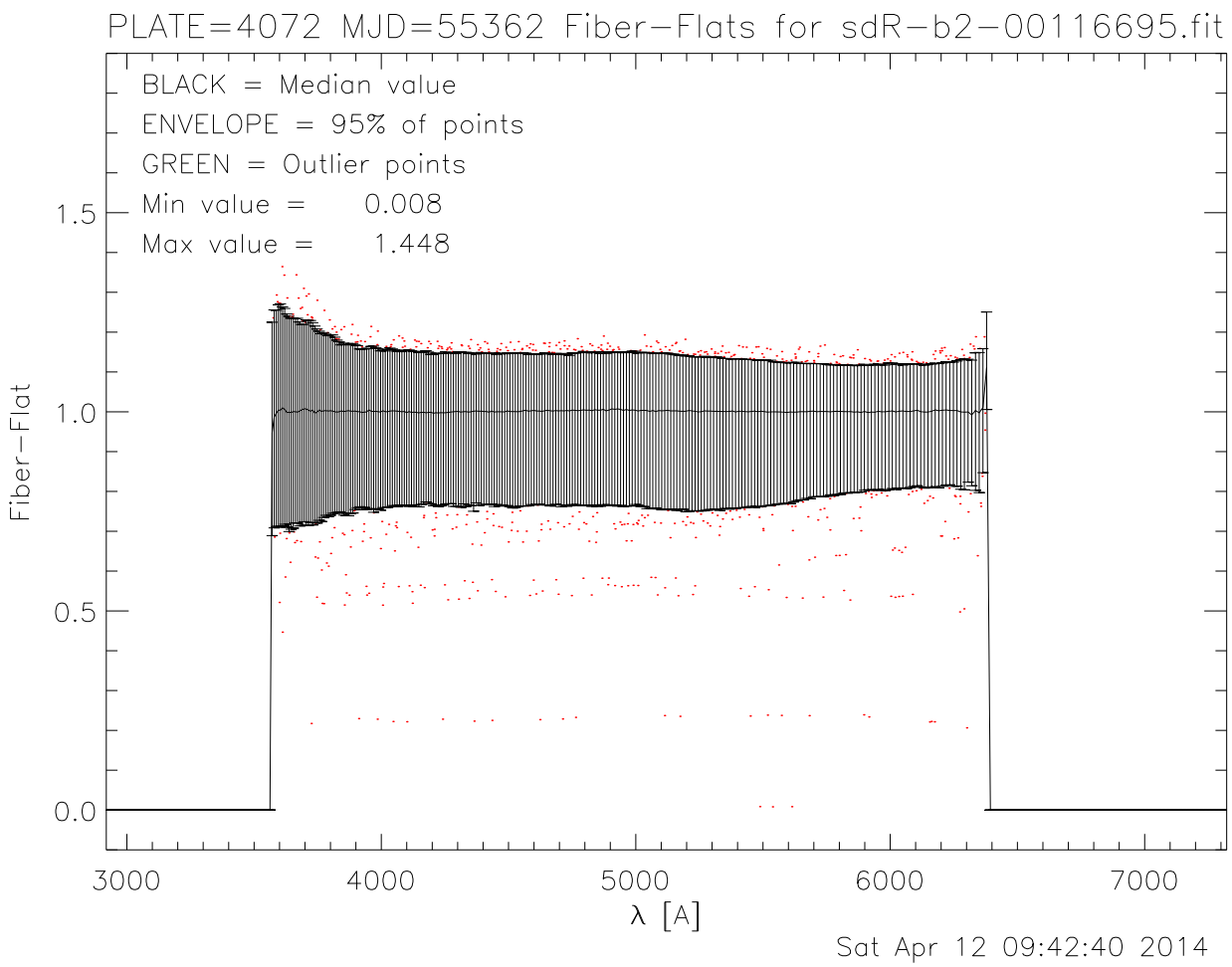

PLATE=4072 MJD=55362 sdR-b2-00116690.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

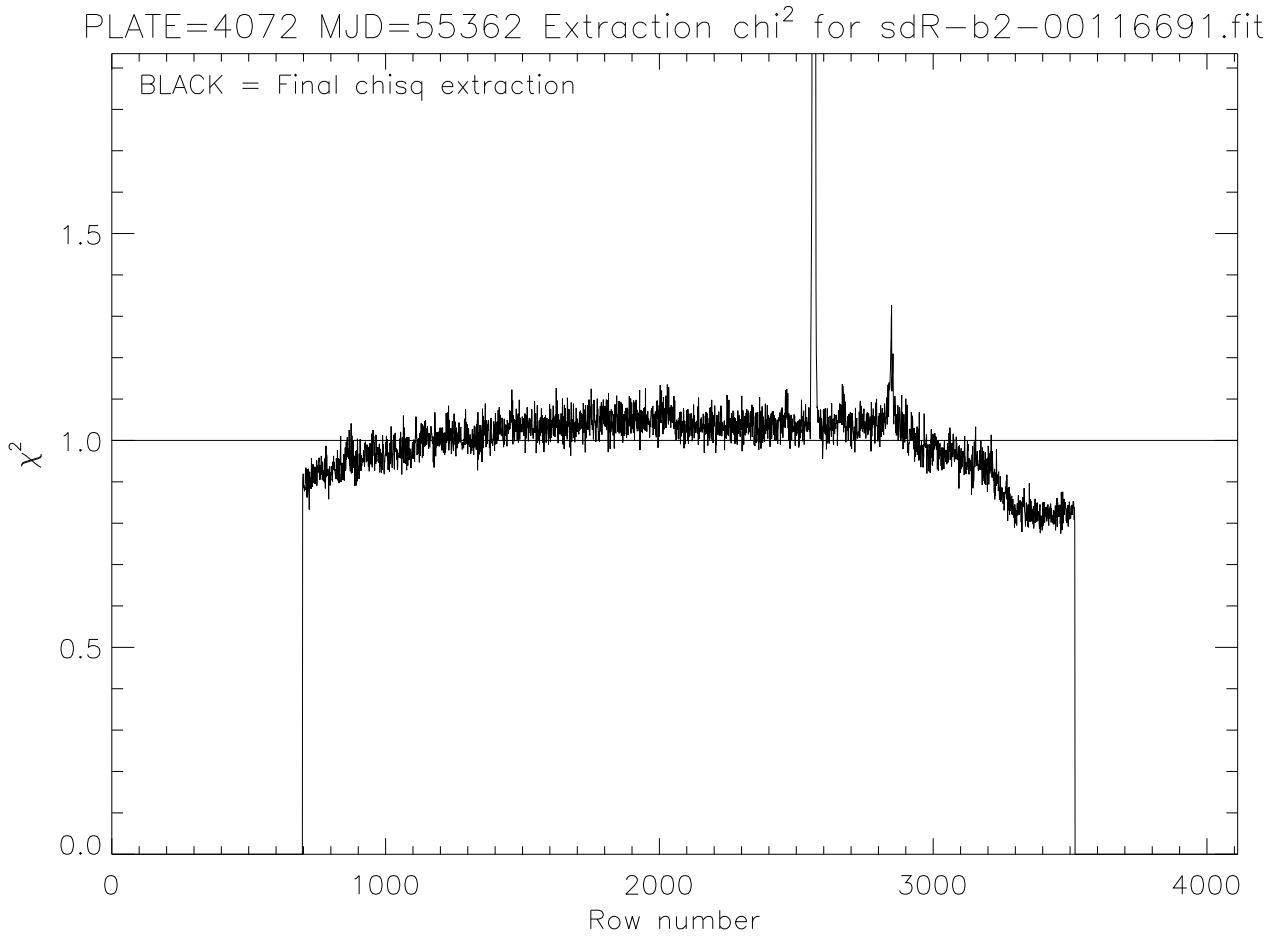
Number of sky fibers = 57

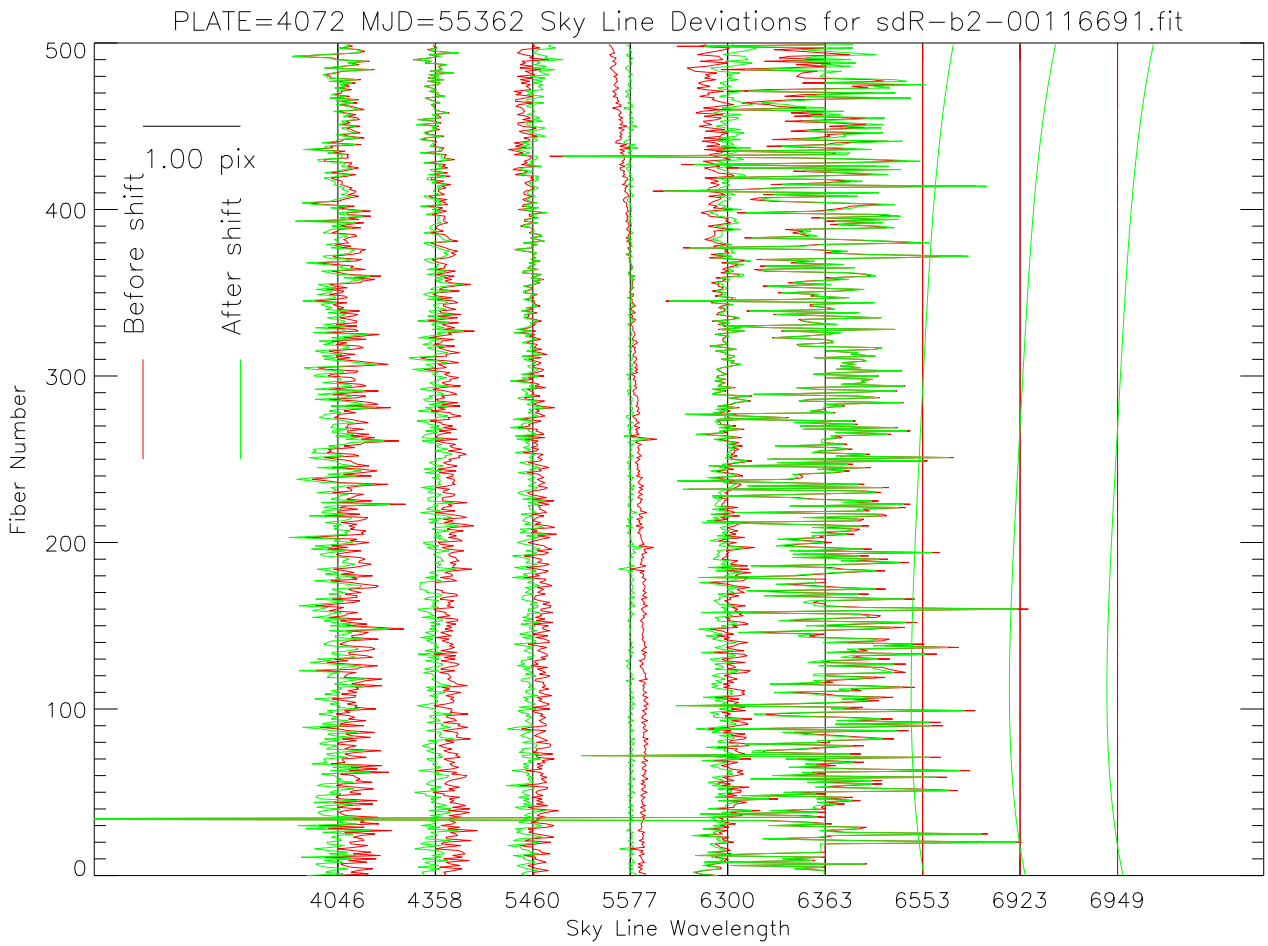


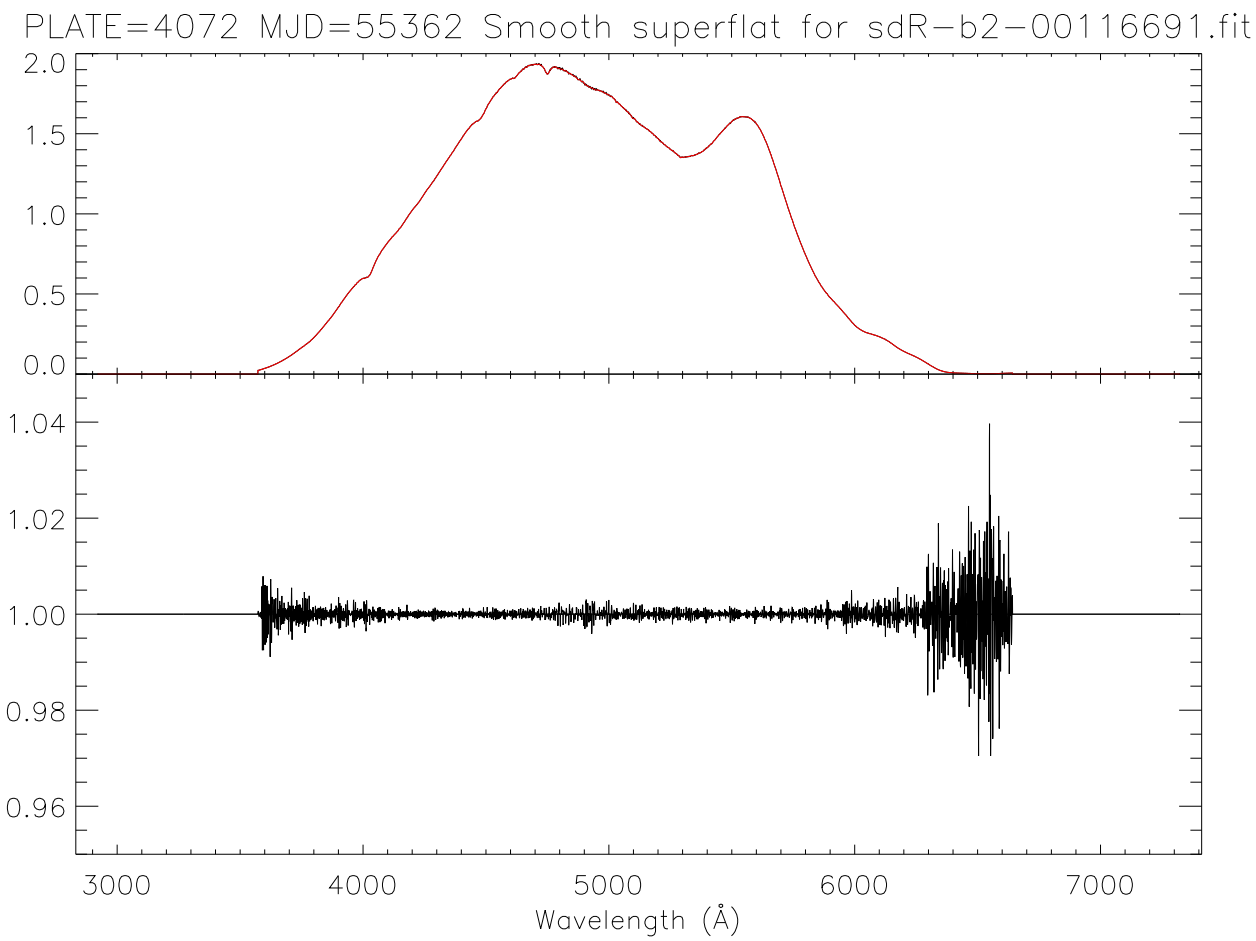

PLATE=4072 MJD=55362 sdR-b2-00116690.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 11.23 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

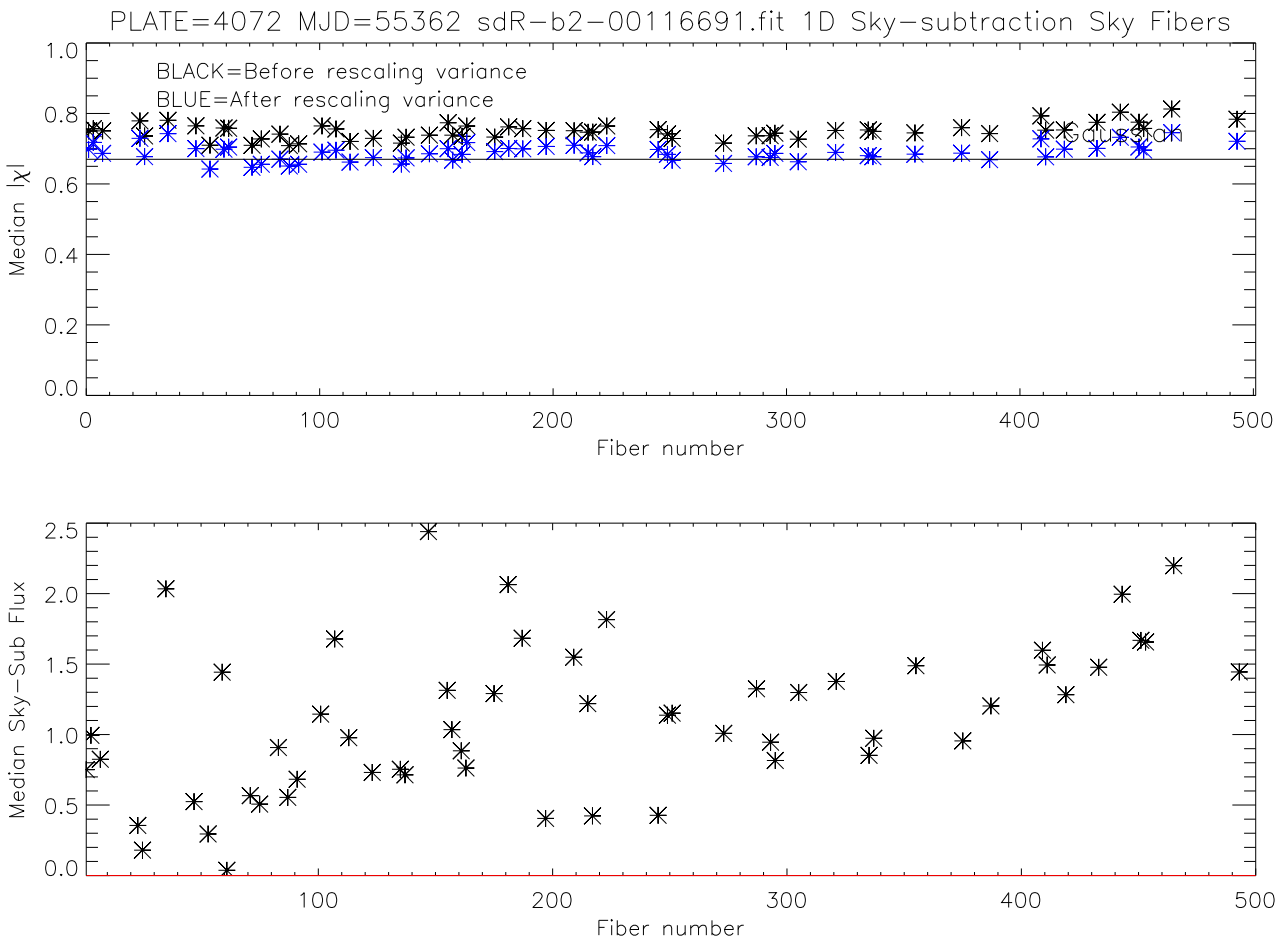

PLATE=4072 MJD=55362 sdR-b2-00116690.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.67 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

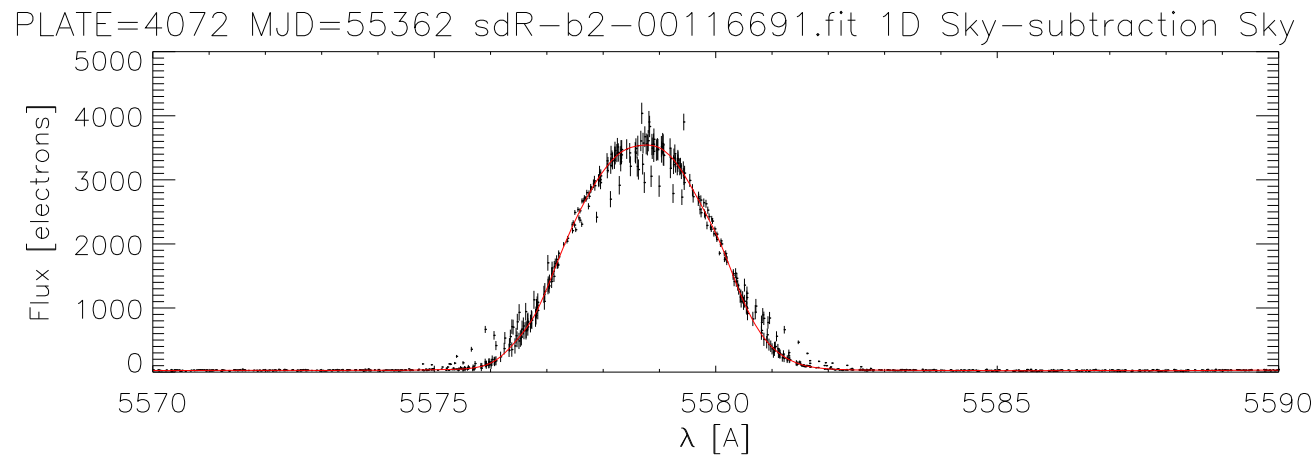

PLATE=4072 MJD=55362 Fiber-Flats for sdR-b2-00116695.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = 0.008
Max value = 1.448
Fiber-Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sat Apr 12 09:42:40 2014

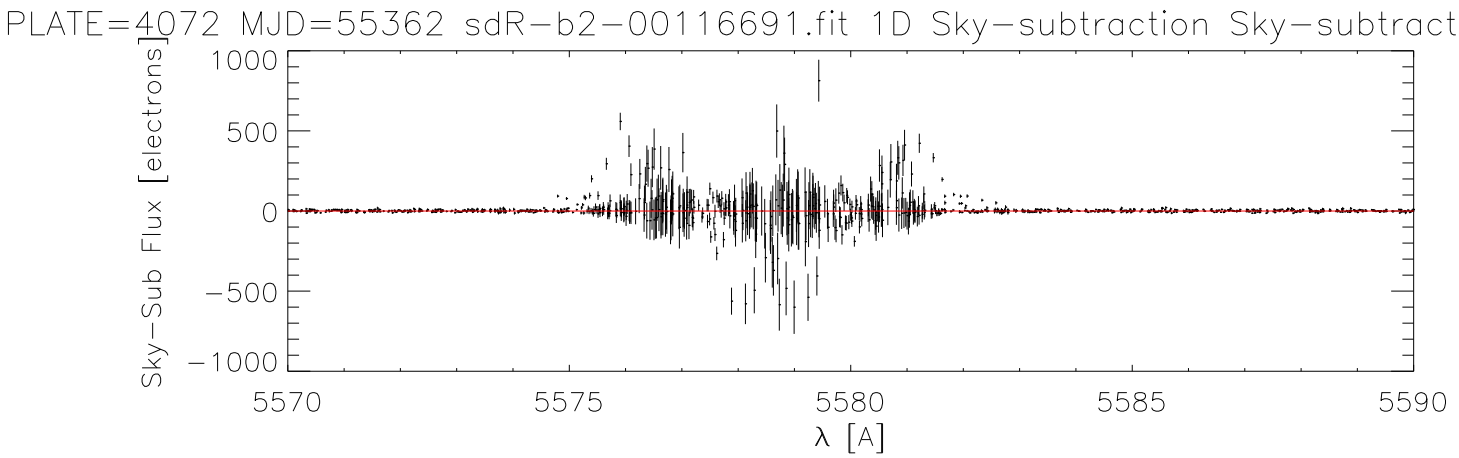

PLATE=4072 MJD=55362 Extraction chi$^2$ for sdR−b2−00116691.fit
BLACK = Final chisq extraction
$\chi^2$
0.0
0.5
1.0
1.5
0
1000
2000
3000
4000
Row number


PLATE=4072 MJD=55362 Sky Line Deviations for sdR-b2-00116691.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

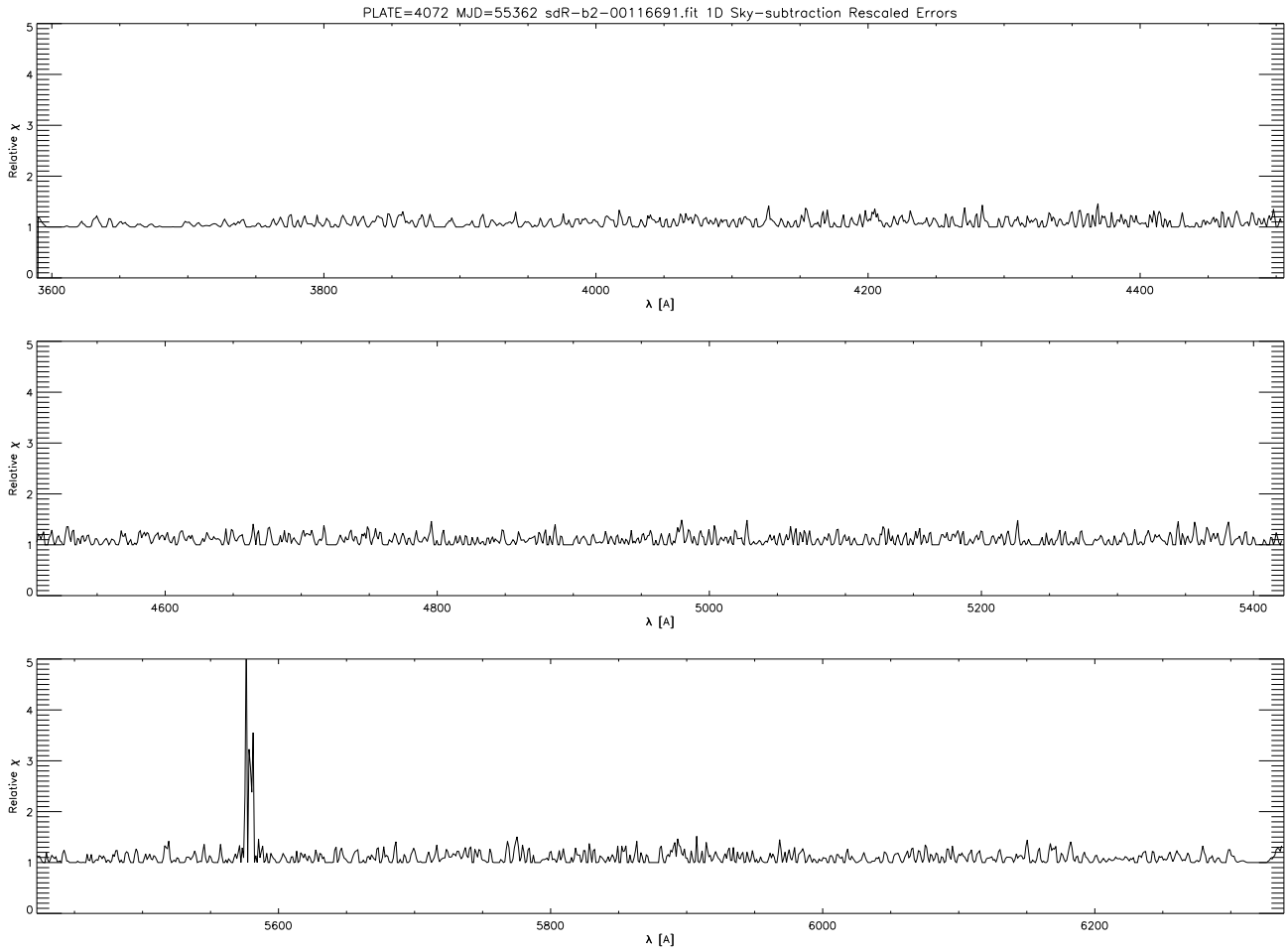

PLATE=4072 MJD=55362 Smooth superflat for sdR-b2-00116691.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

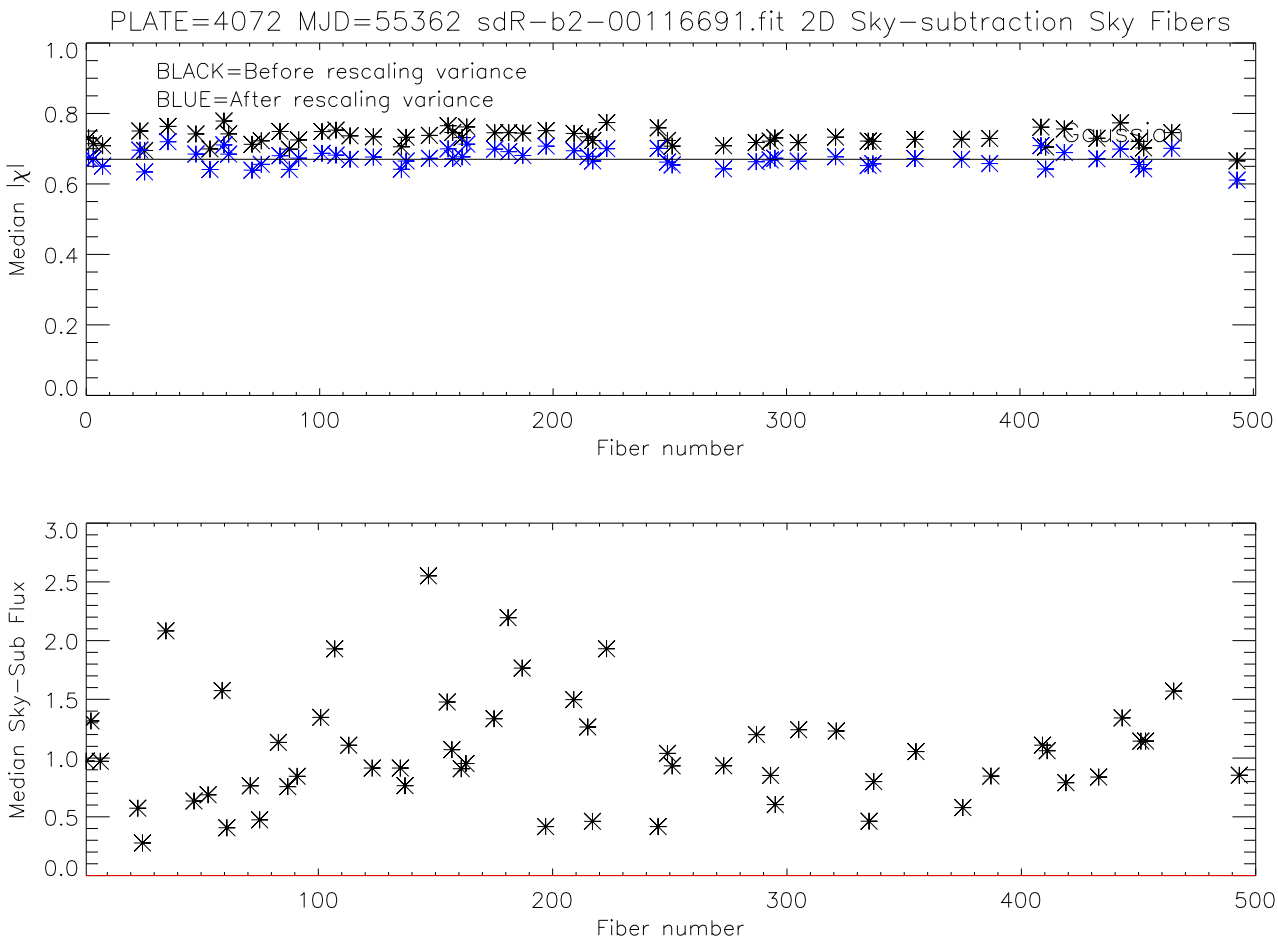

PLATE=4072 MJD=55362 sdR-b2-00116691.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number


PLATE=4072 MJD=55362 sdR-b2-00116691.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

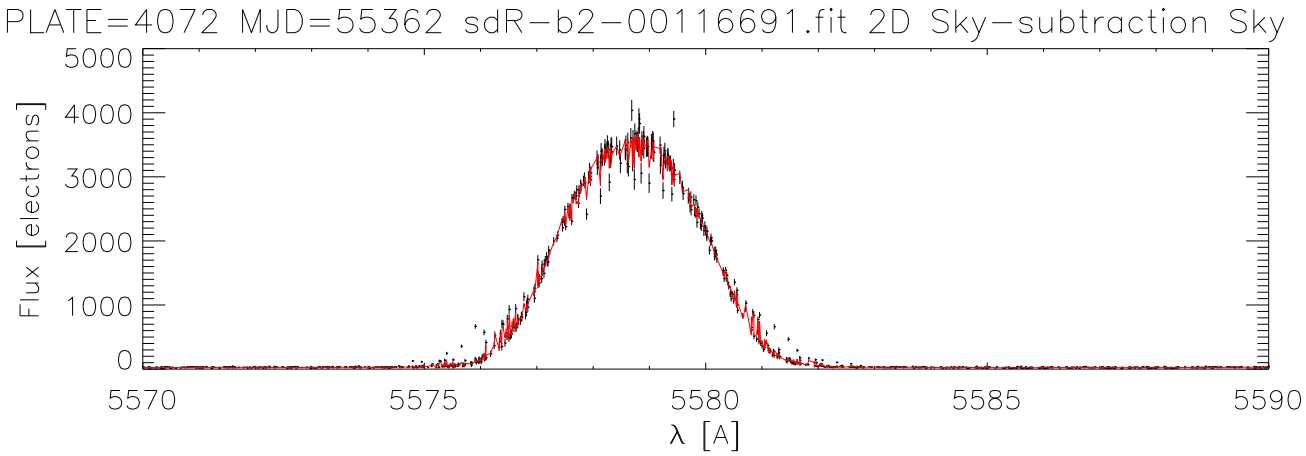

PLATE=4072 MJD=55362 sdR-b2-00116691.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
500
0
-500
-1000
5570
5575
5580
5585
5590
λ [A]

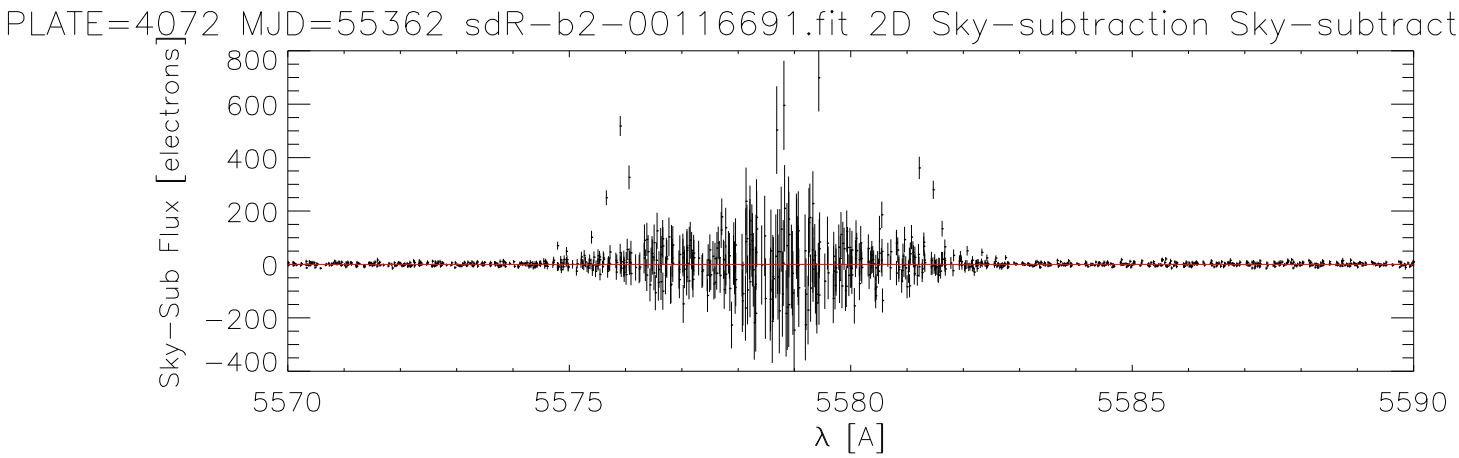
Number of sky fibers = 57



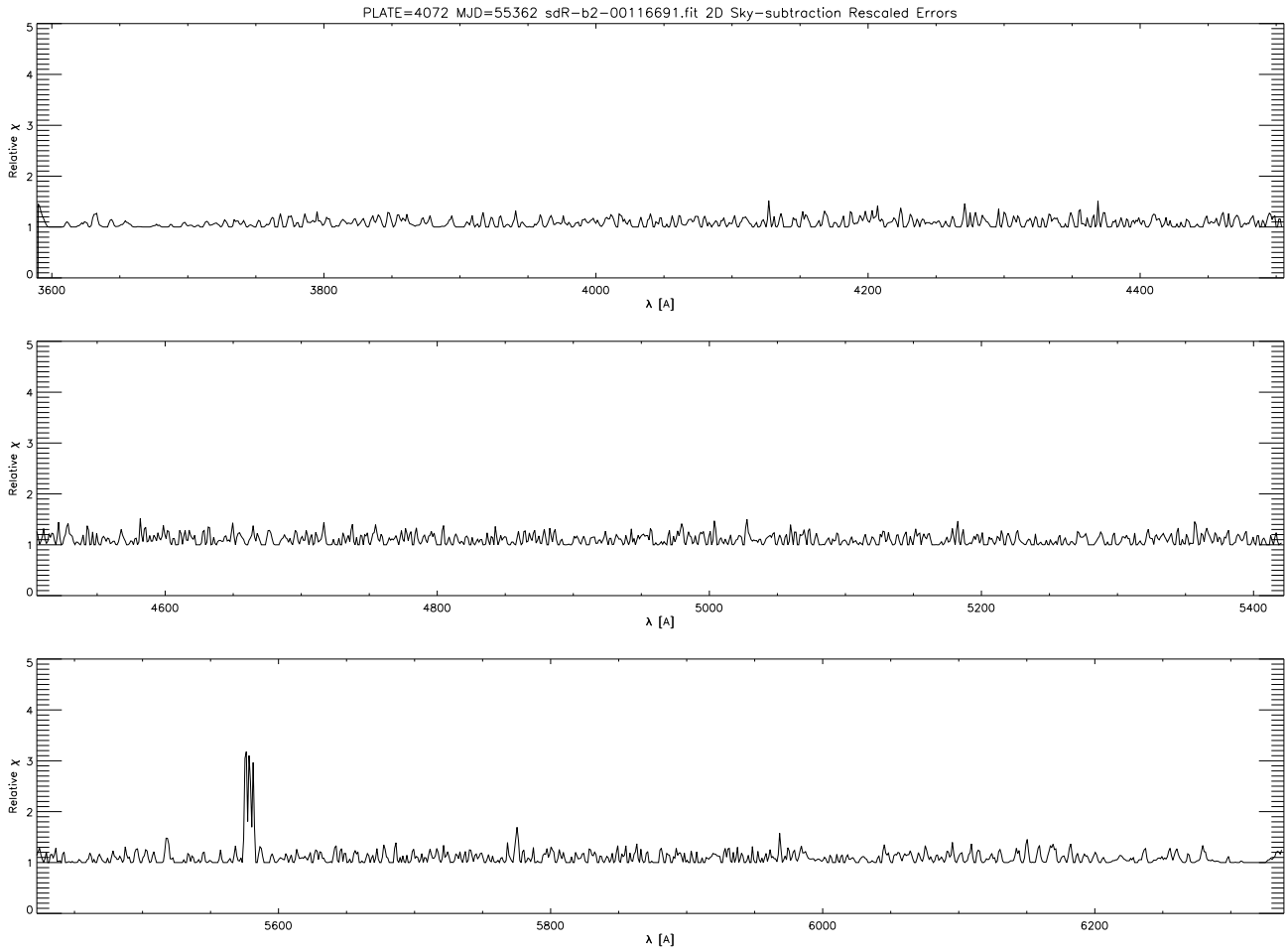

PLATE=4072 MJD=55362 sdR-b2-00116691.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Median |χ|
Fiber number
1.0
0.8
0.6
0.4
0.2
0.0
0
100
200
300
400
500

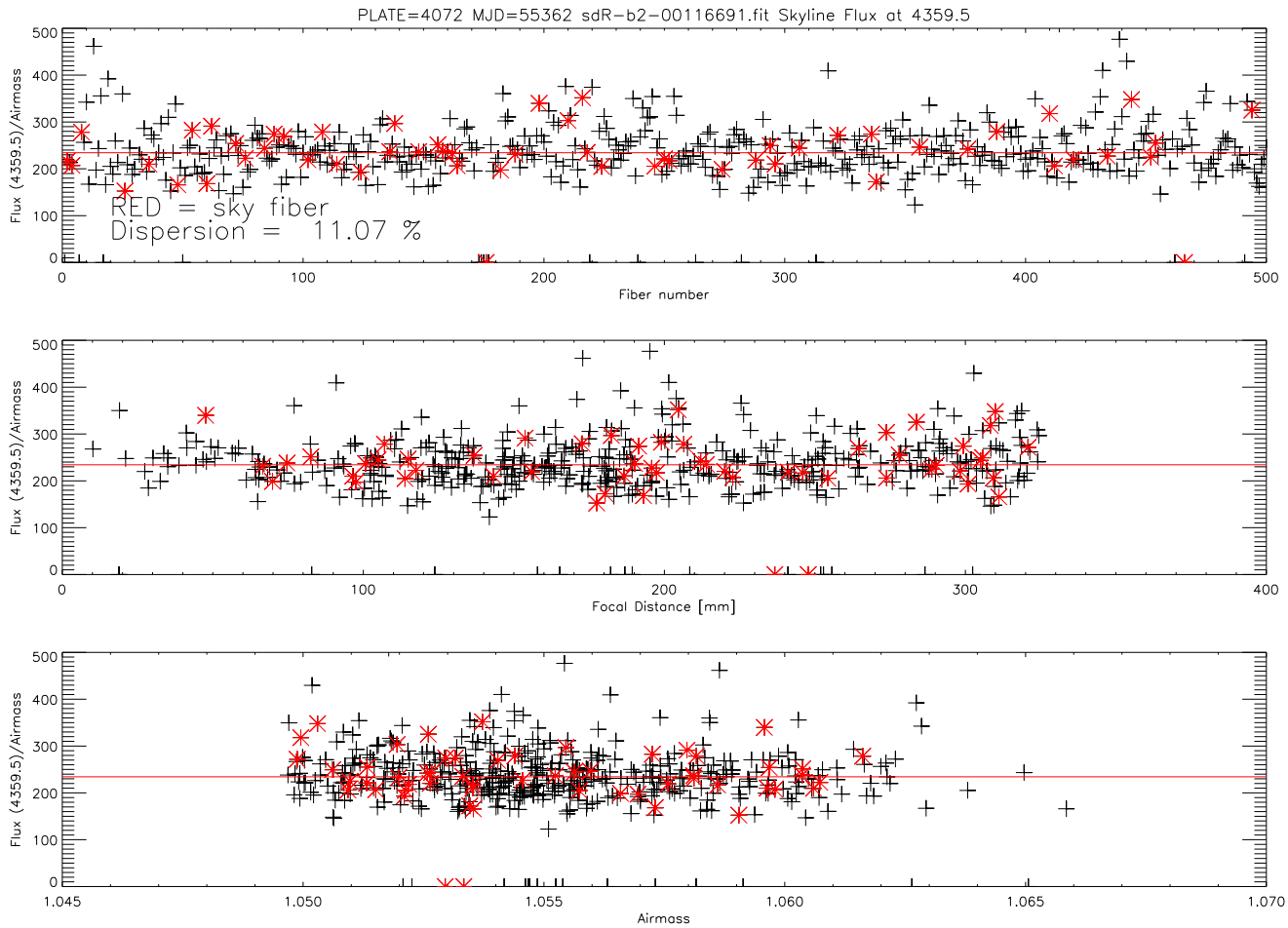

Median Sky-Sub Flux
Fiber number
3.0
2.5
2.0
1.5
1.0
0.5
0.0
100
200
300
400
500

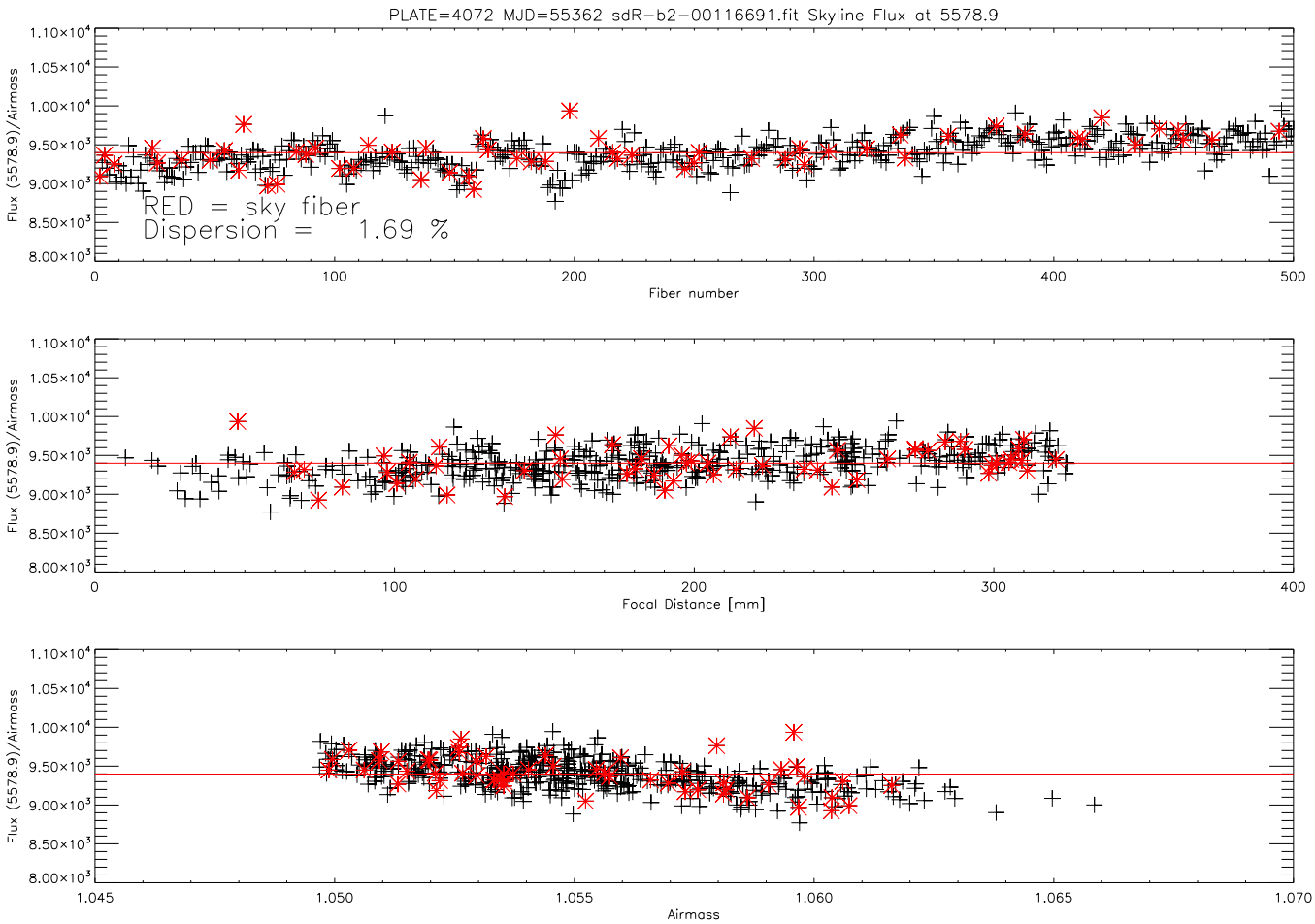

PLATE=4072 MJD=55362 sdR-b2-00116691.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

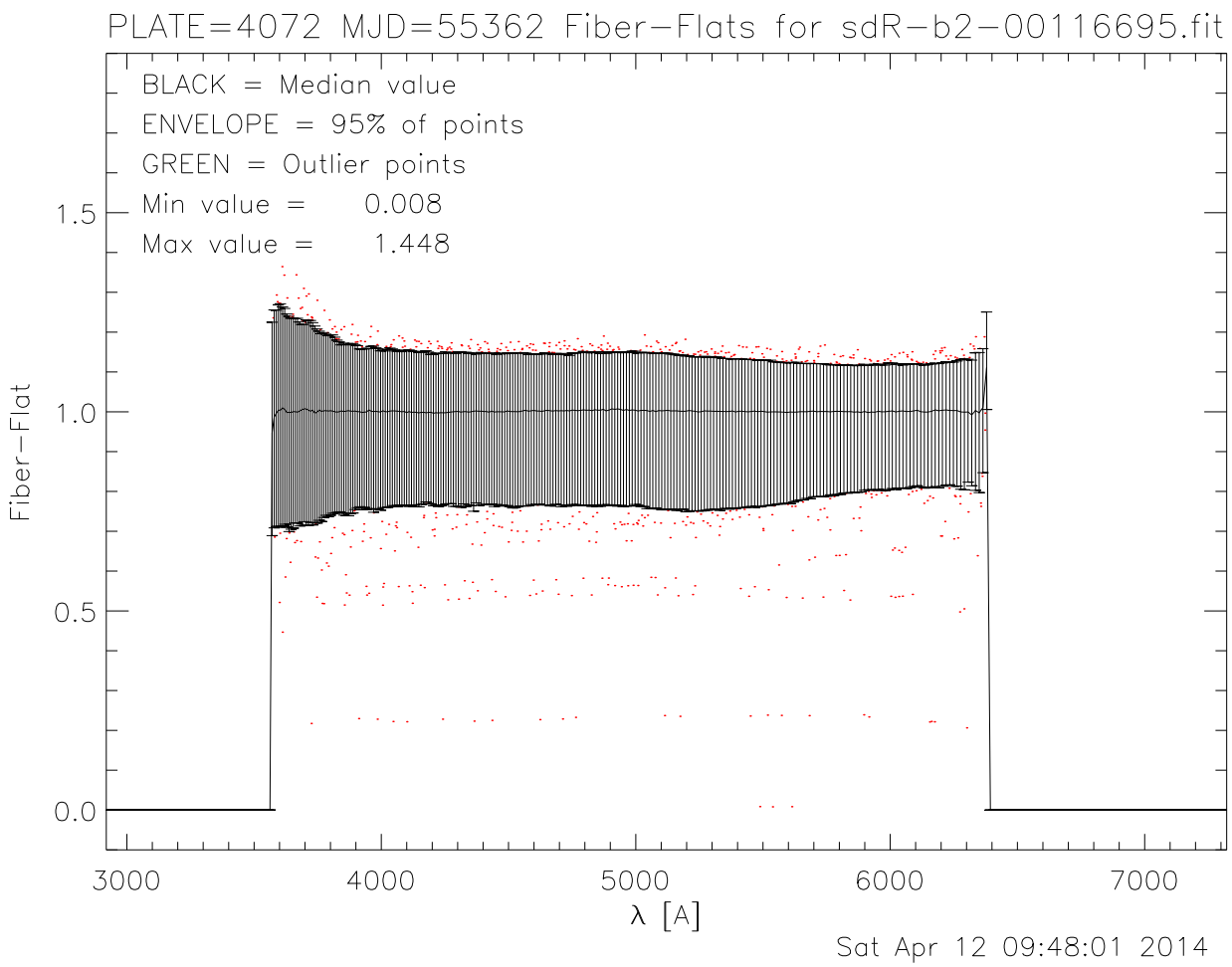

PLATE=4072 MJD=55362 sdR-b2-00116691.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

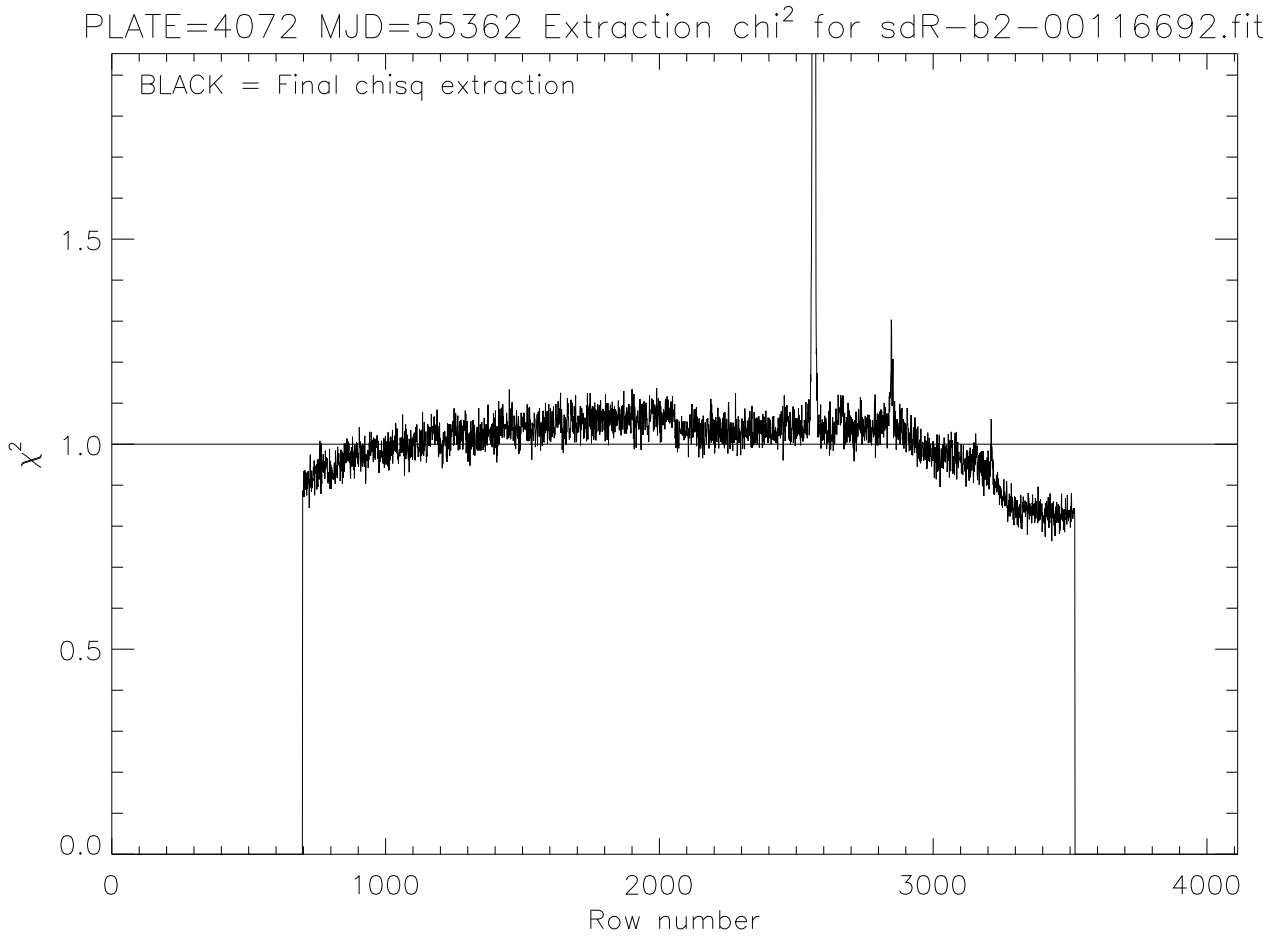
Number of sky fibers = 57

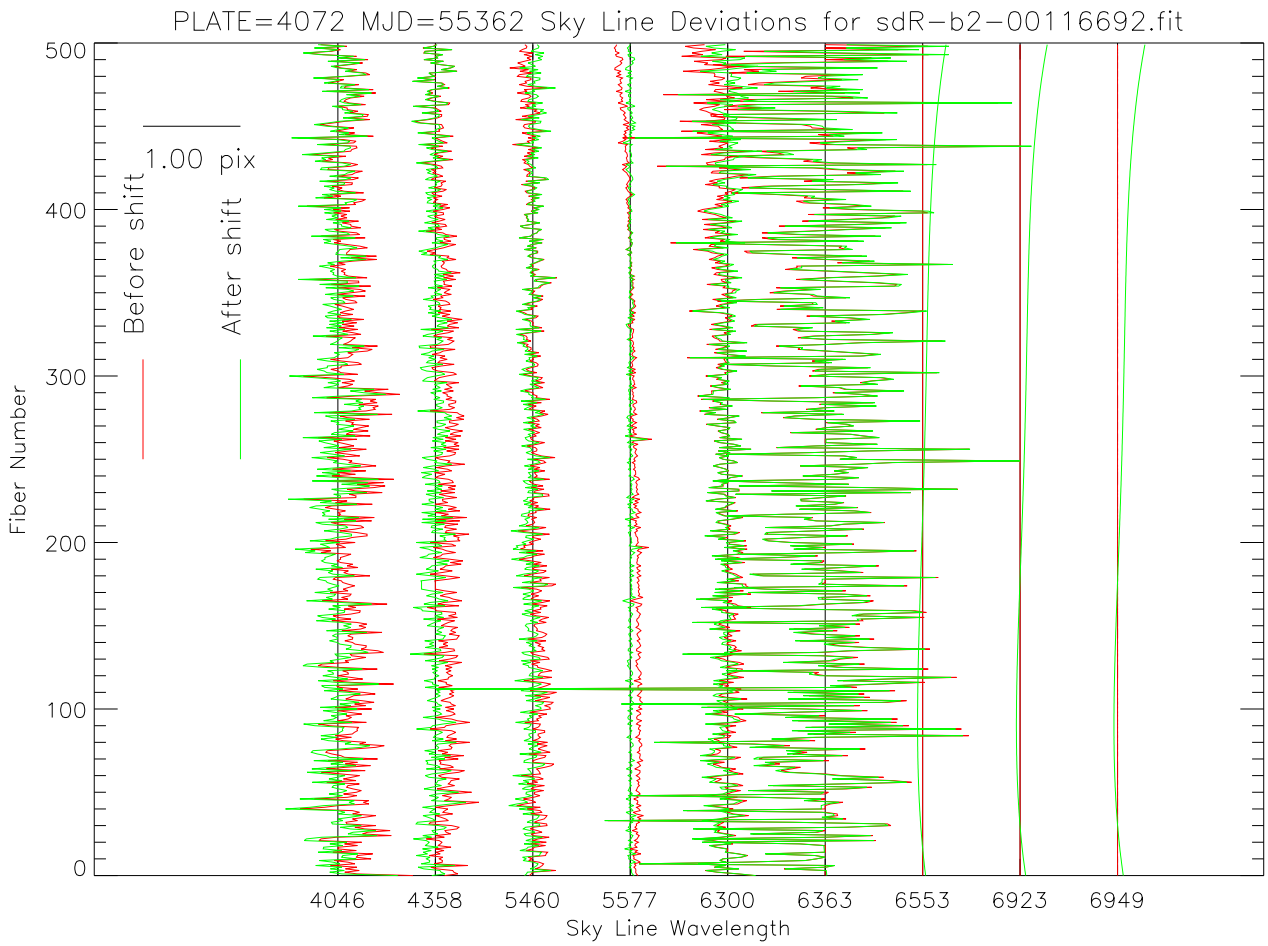


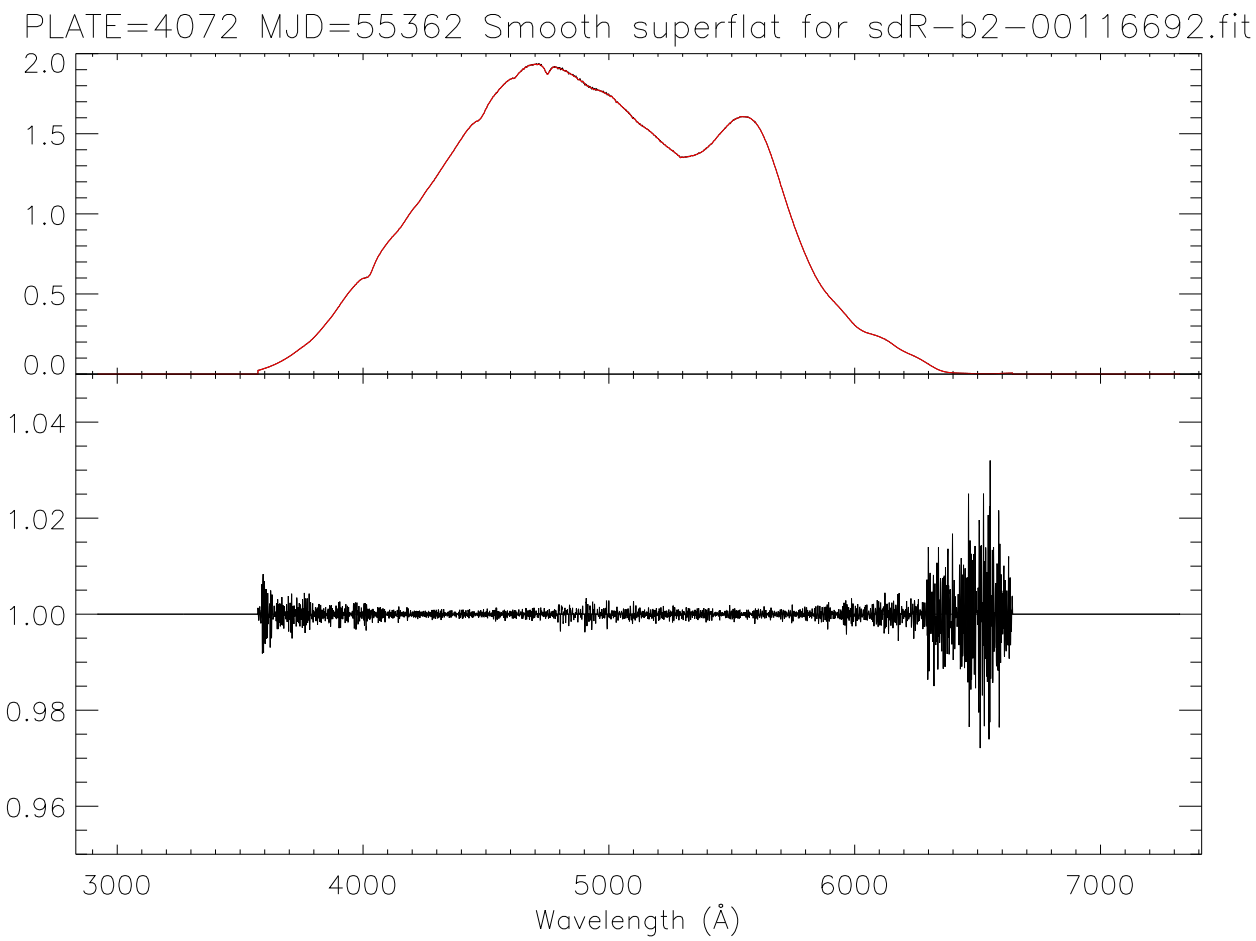

PLATE=4072 MJD=55362 sdR-b2-00116691.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 11.07 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

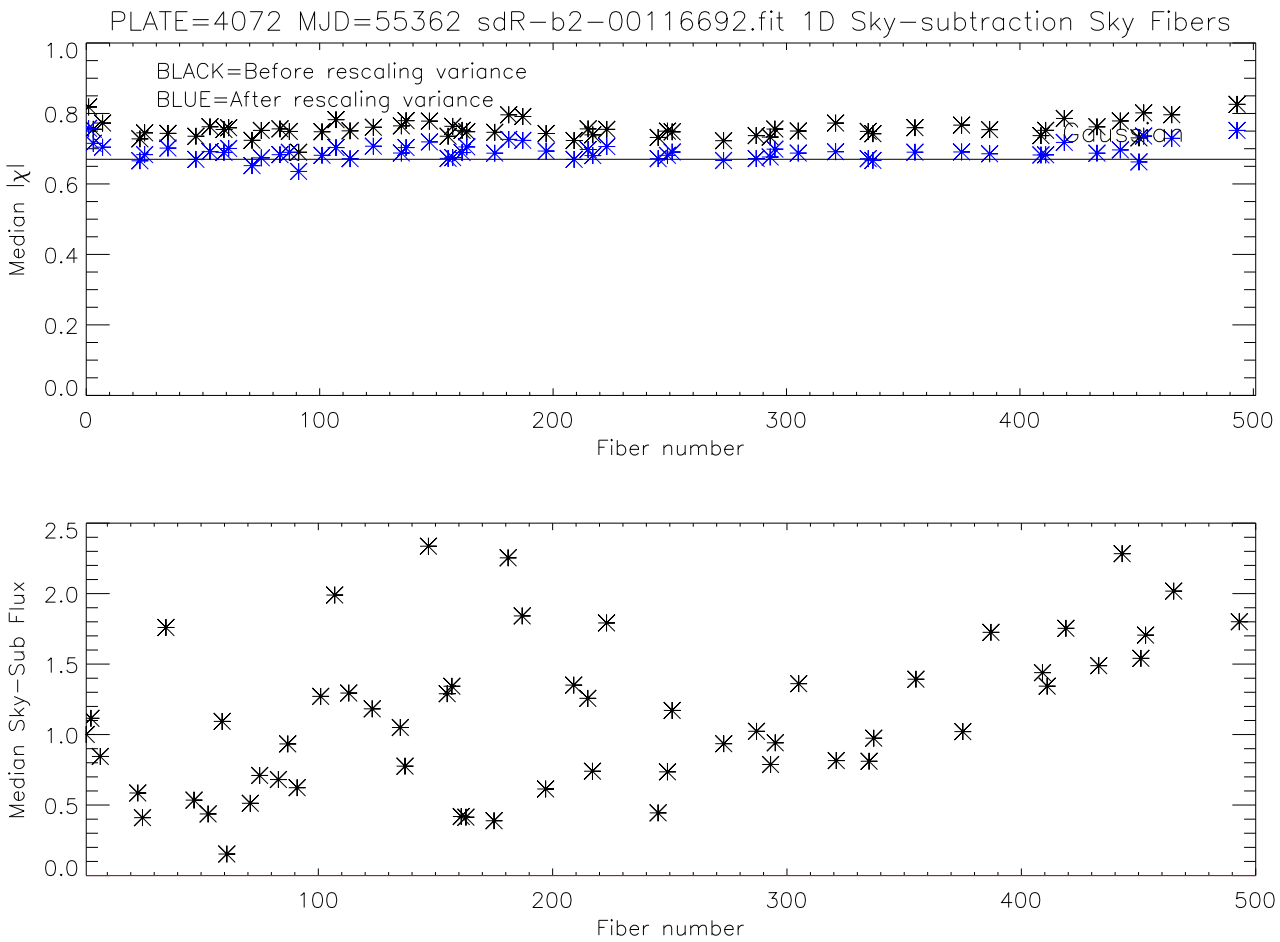

PLATE=4072 MJD=55362 sdR-b2-00116691.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.69 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

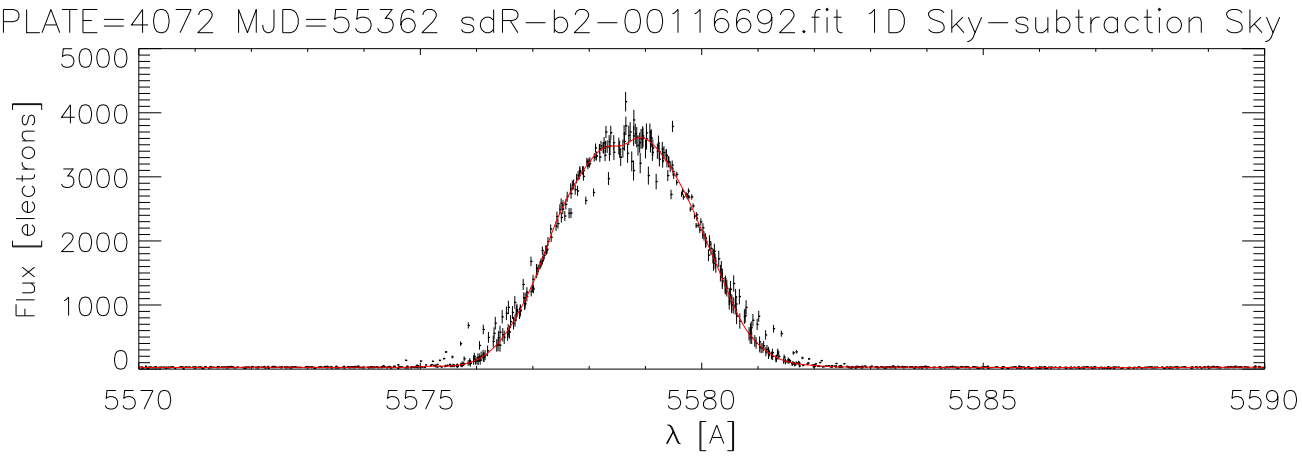

PLATE=4072 MJD=55362 Fiber-Flats for sdR-b2-00116695.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = 0.008
Max value = 1.448
Fiber-Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sat Apr 12 09:48:01 2014

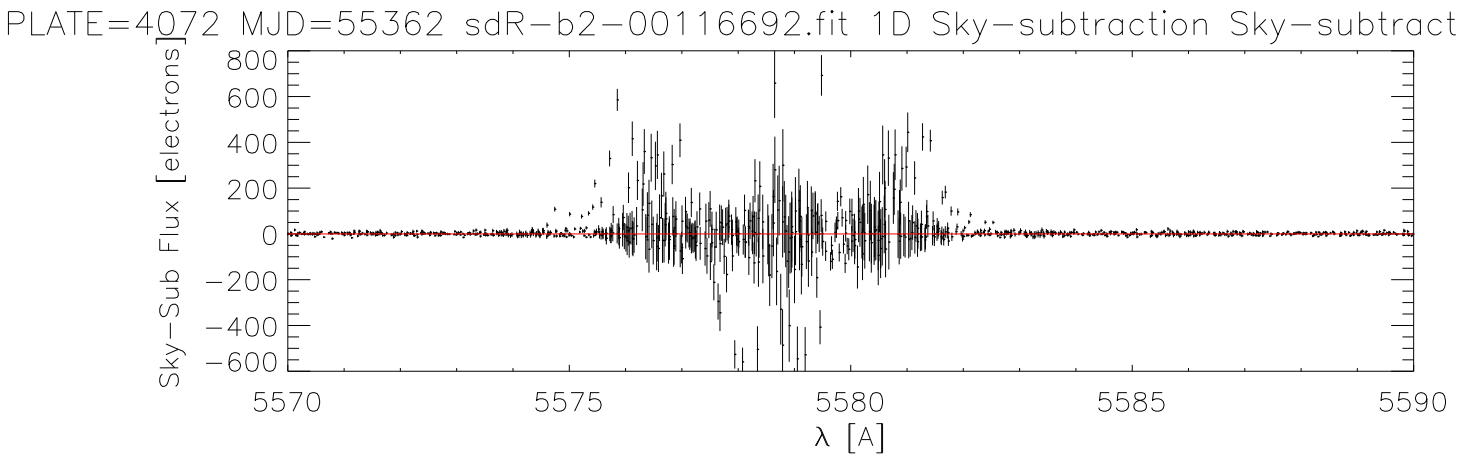

PLATE=4072 MJD=55362 Extraction chi$^2$ for sdR−b2−00116692.fit
BLACK = Final chisq extraction
$\chi^2$
1.5
1.0
0.5
0.0
0
1000
2000
3000
4000
Row number


PLATE=4072 MJD=55362 Sky Line Deviations for sdR-b2-00116692.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

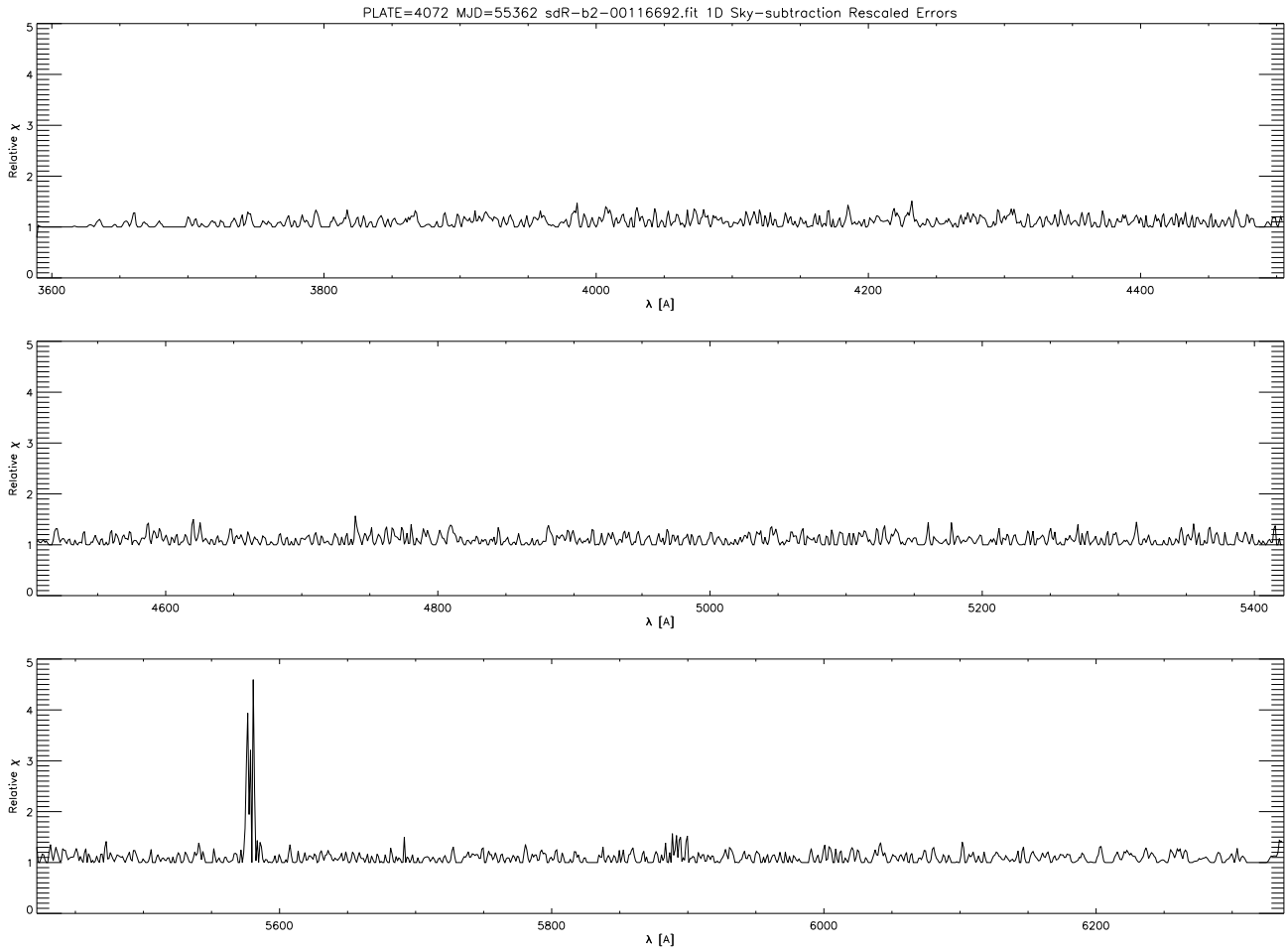

PLATE=4072 MJD=55362 Smooth superflat for sdR-b2-00116692.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

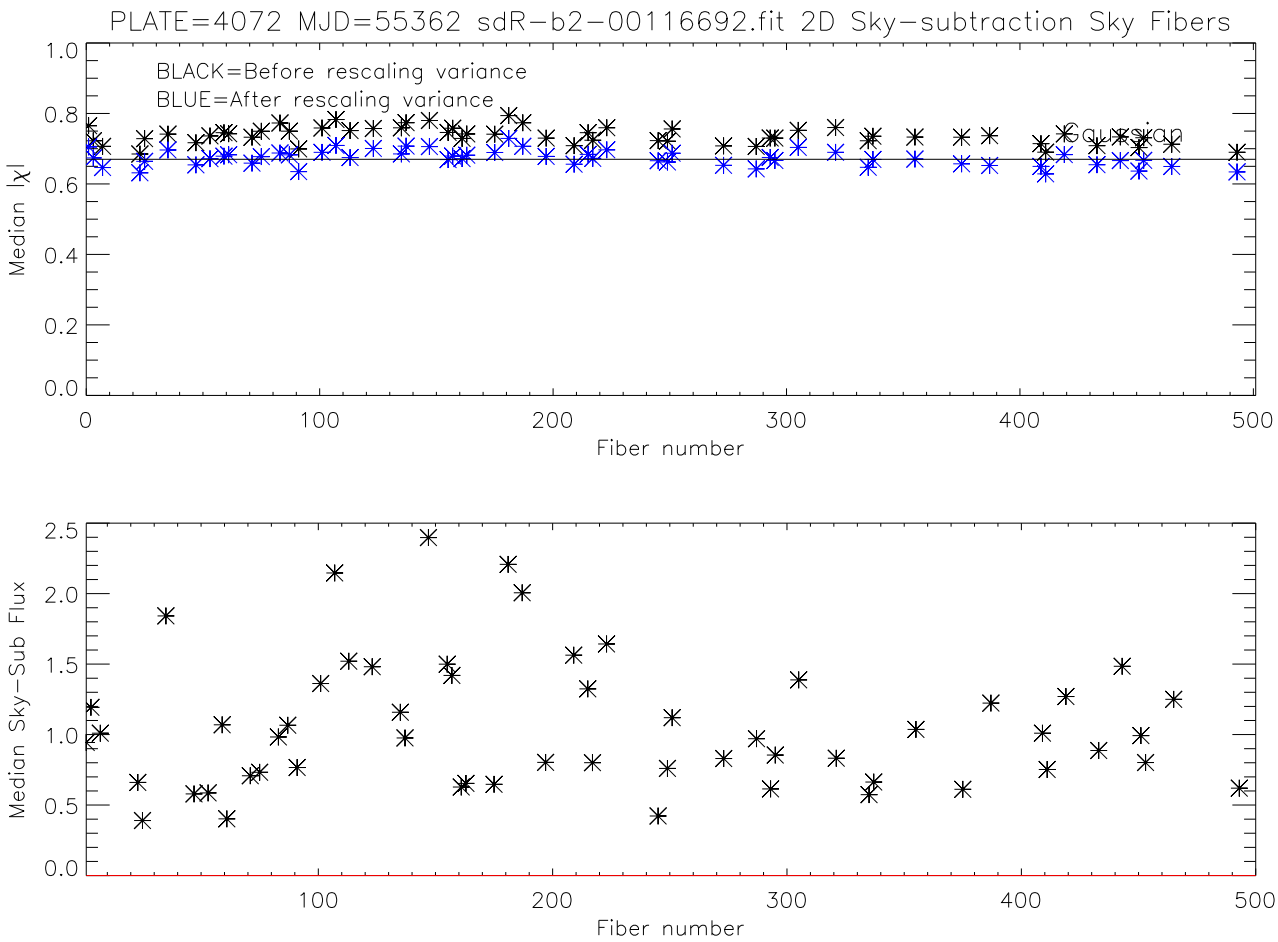

PLATE=4072 MJD=55362 sdR-b2-00116692.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

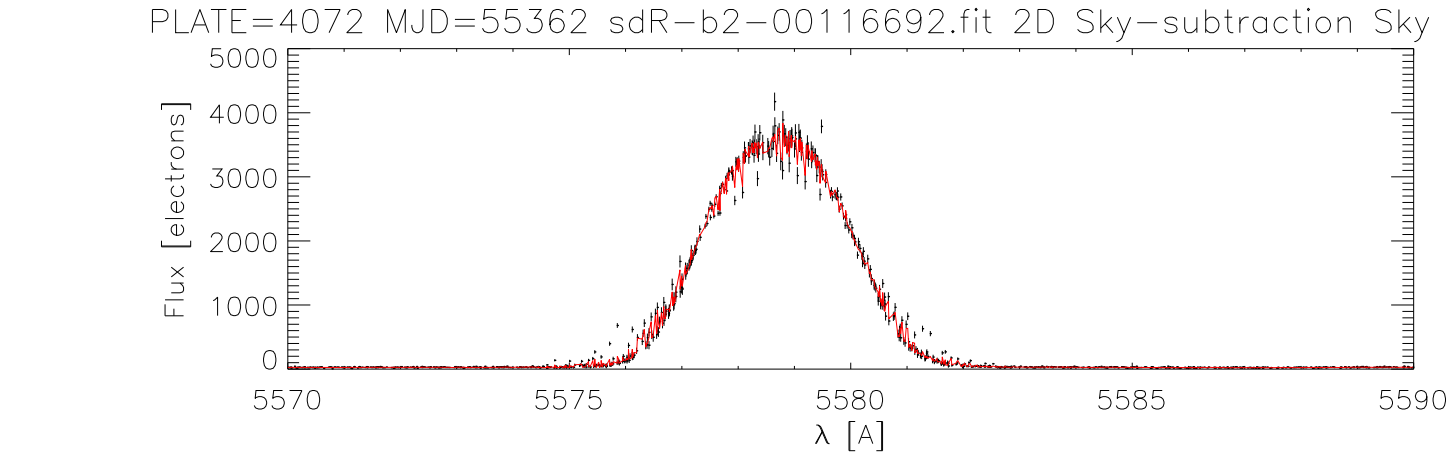

PLATE=4072 MJD=55362 sdR-b2-00116692.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

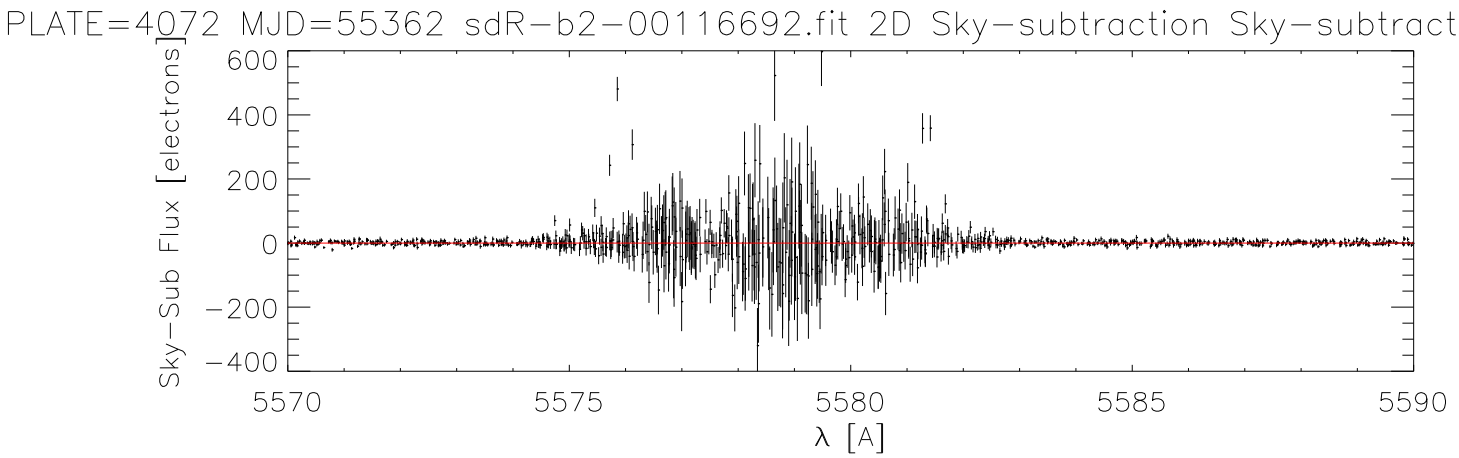

PLATE=4072 MJD=55362 sdR-b2-00116692.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 57

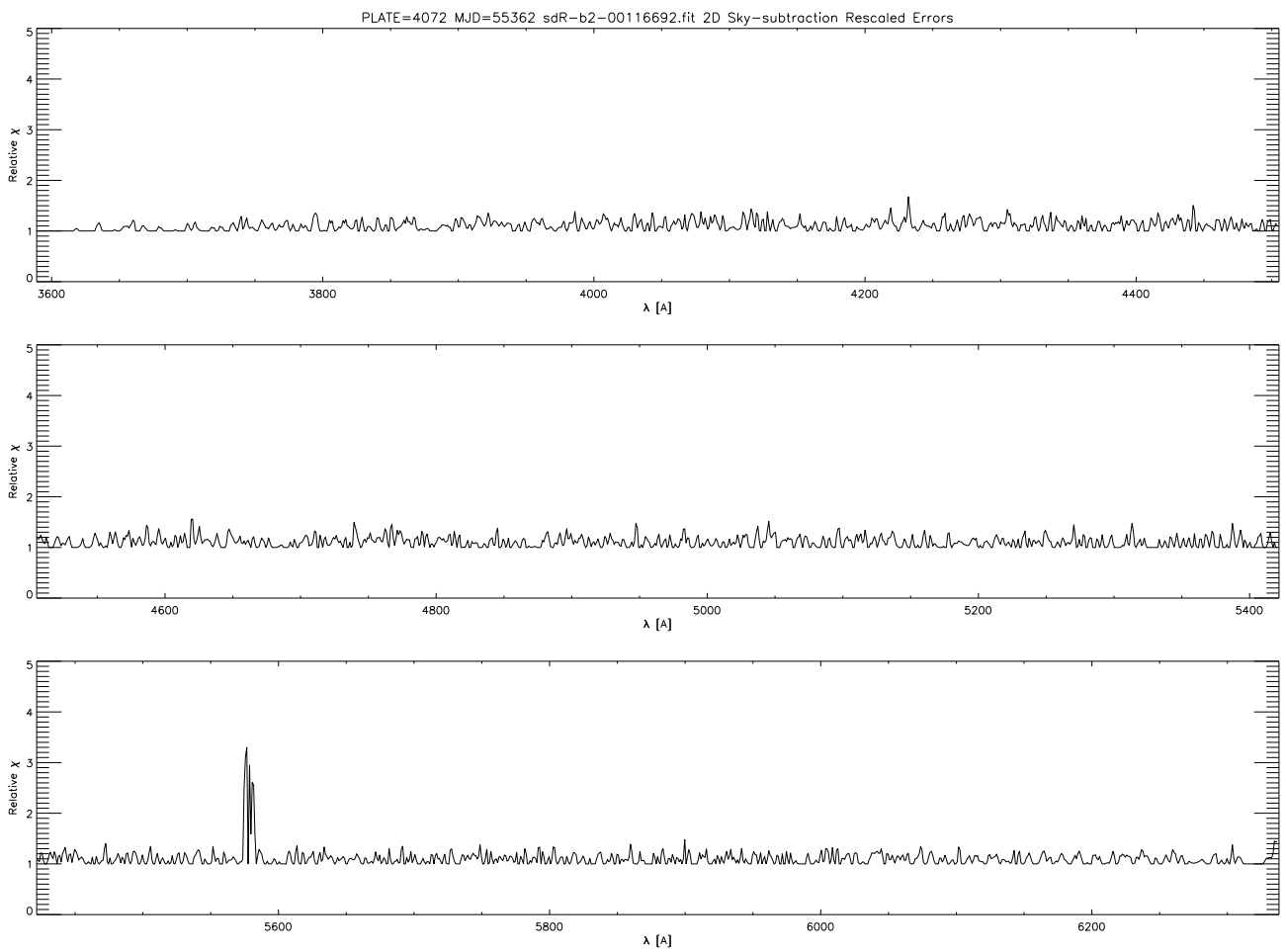


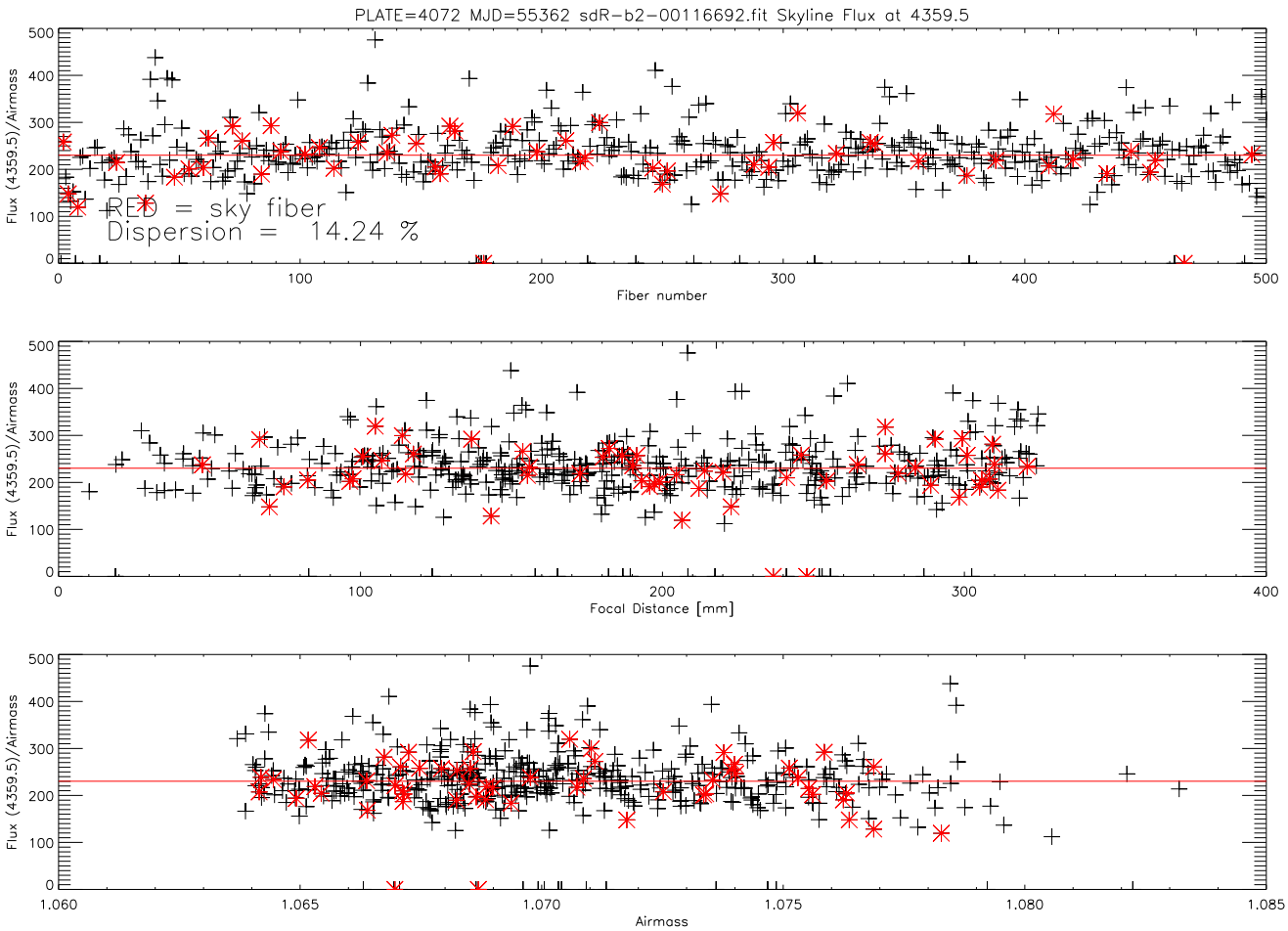

PLATE=4072 MJD=55362 sdR-b2-00116692.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

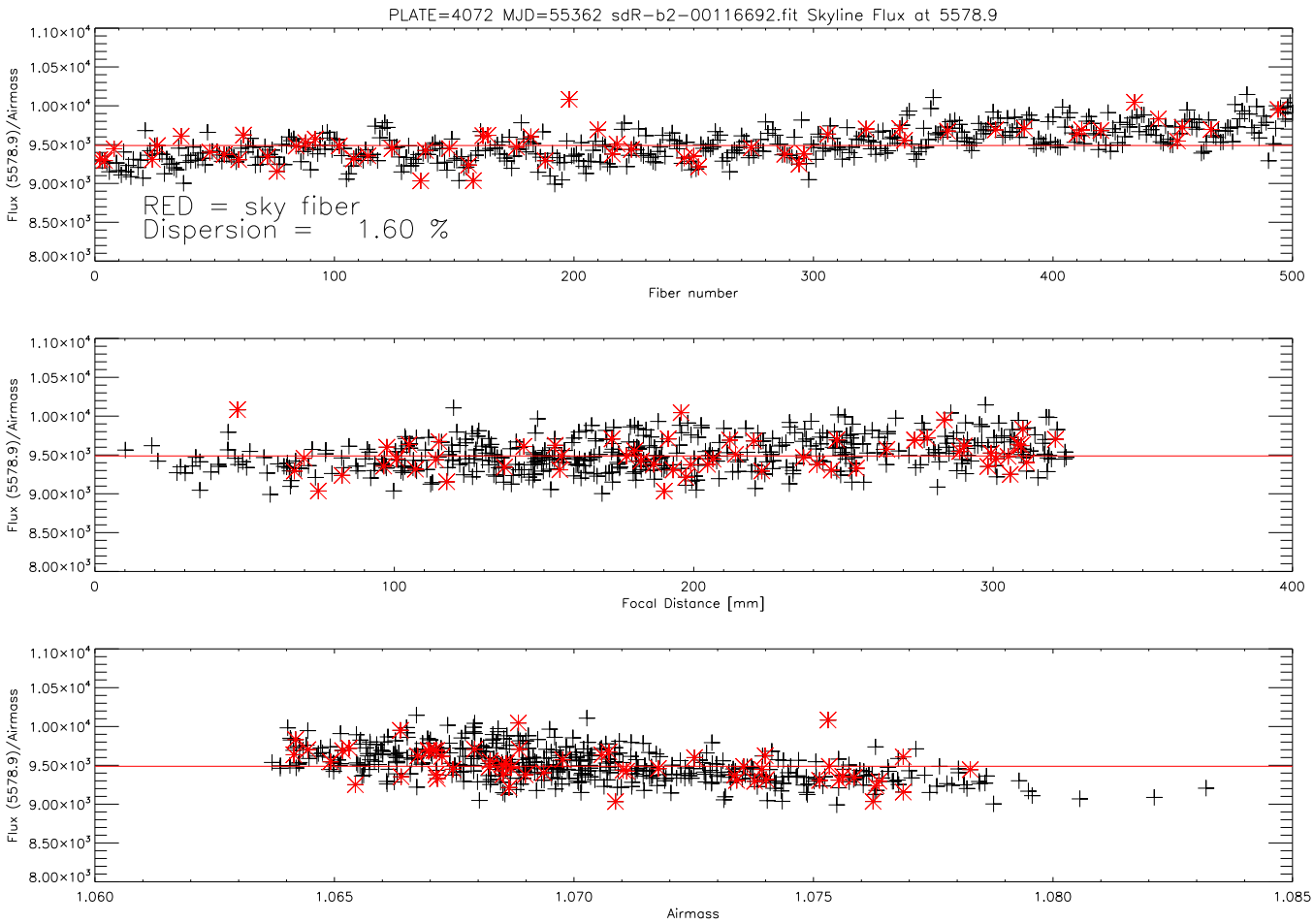

PLATE=4072 MJD=55362 sdR-b2-00116692.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

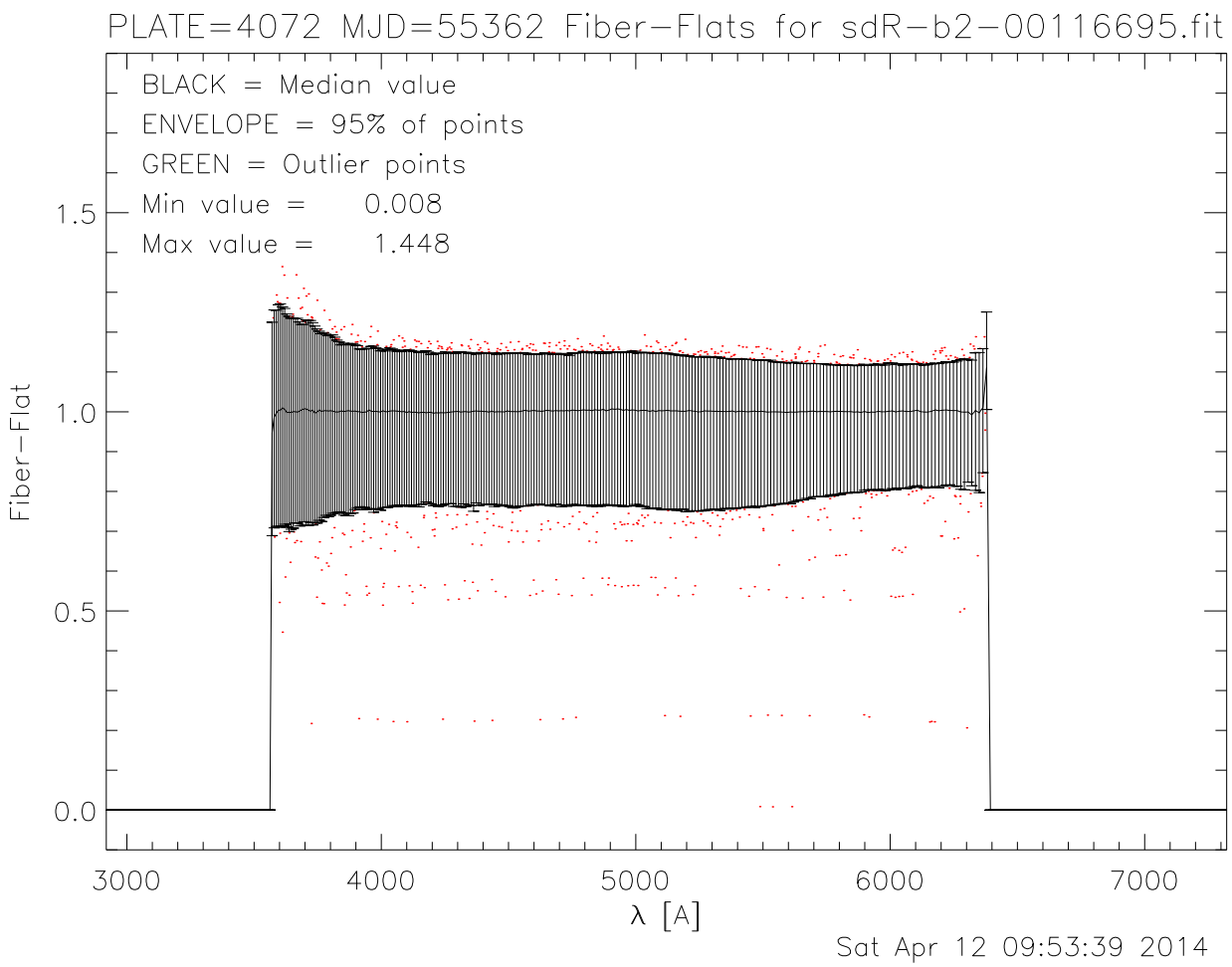

PLATE=4072 MJD=55362 sdR-b2-00116692.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

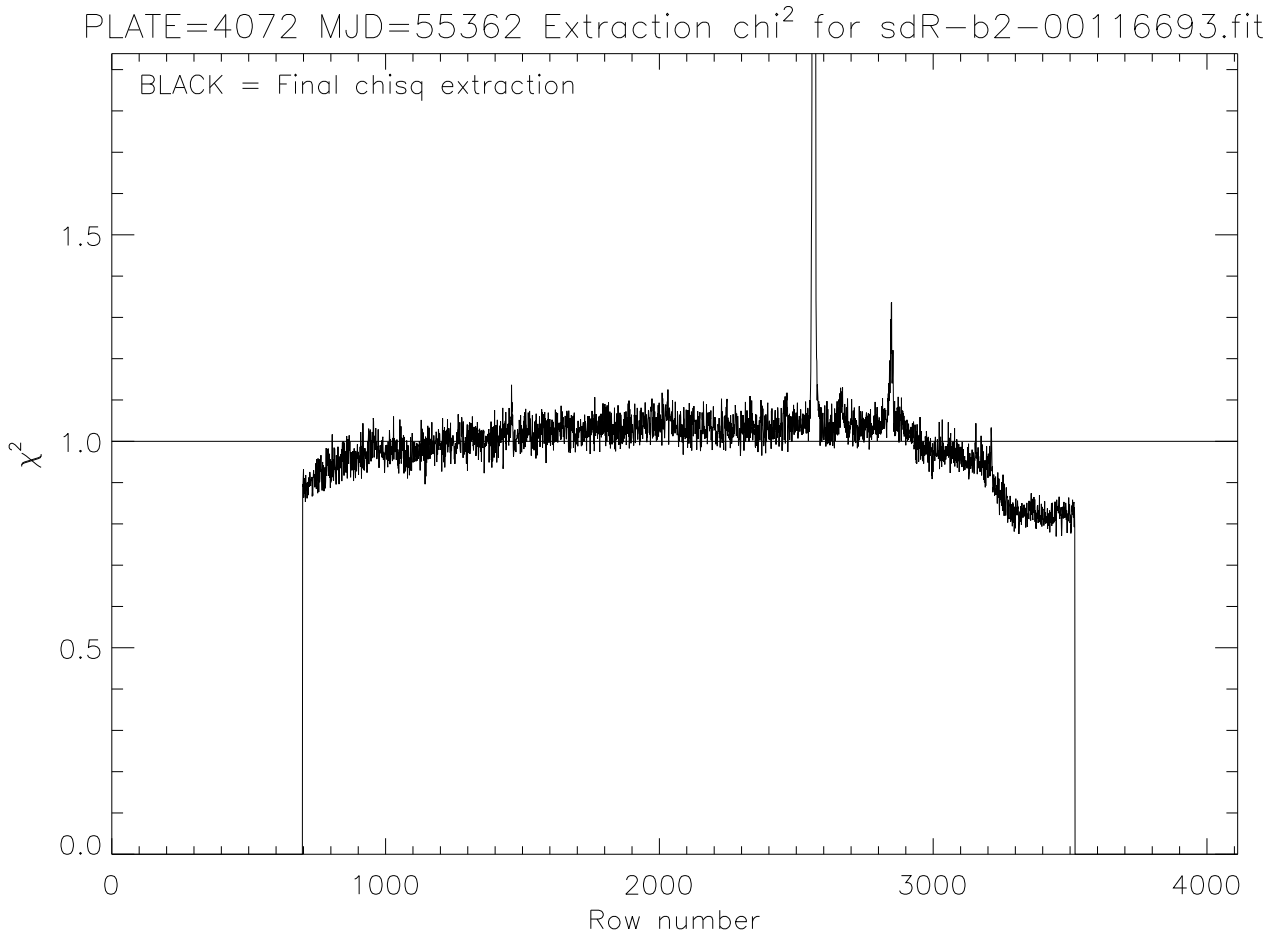
Number of sky fibers = 57

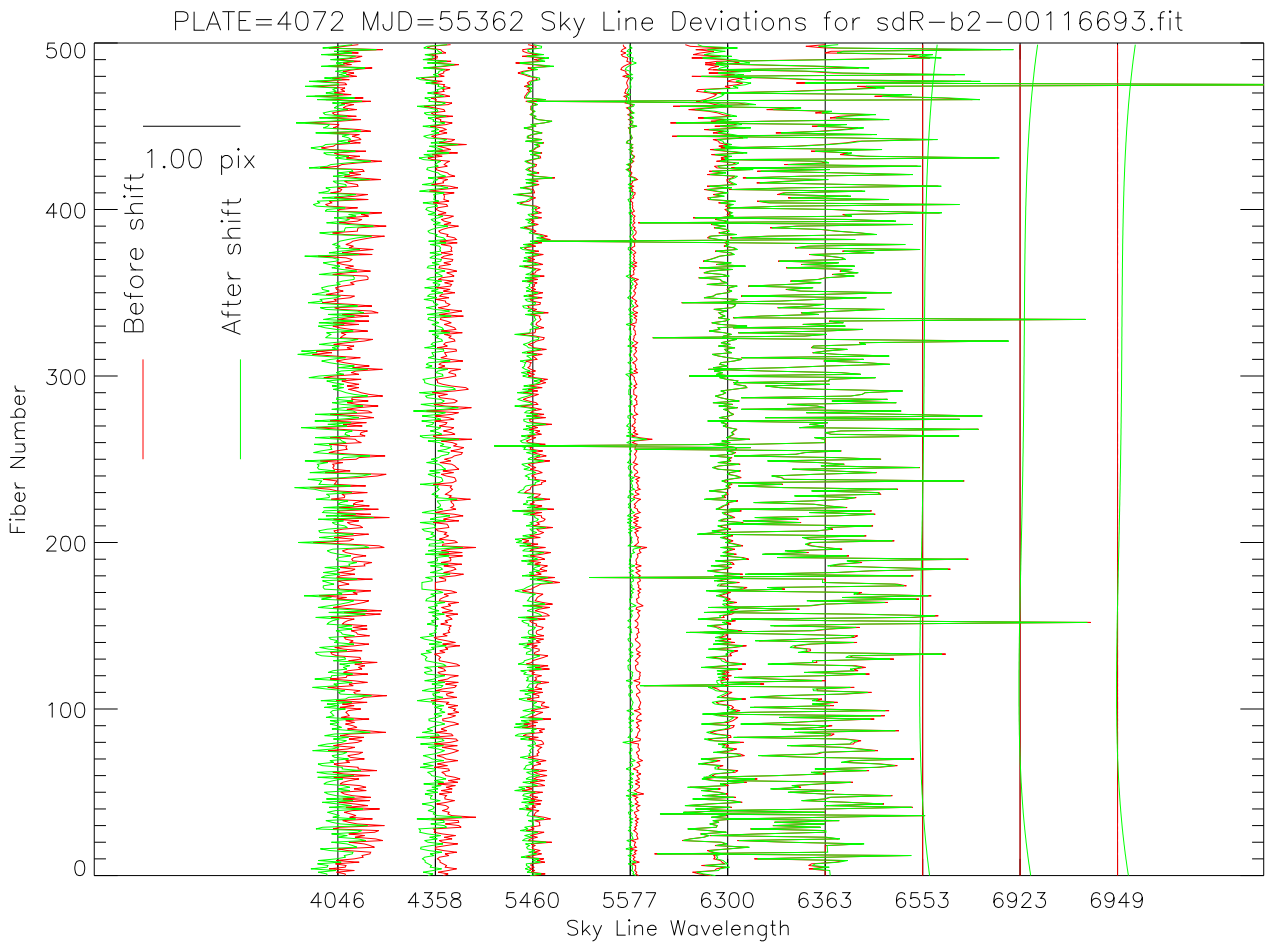


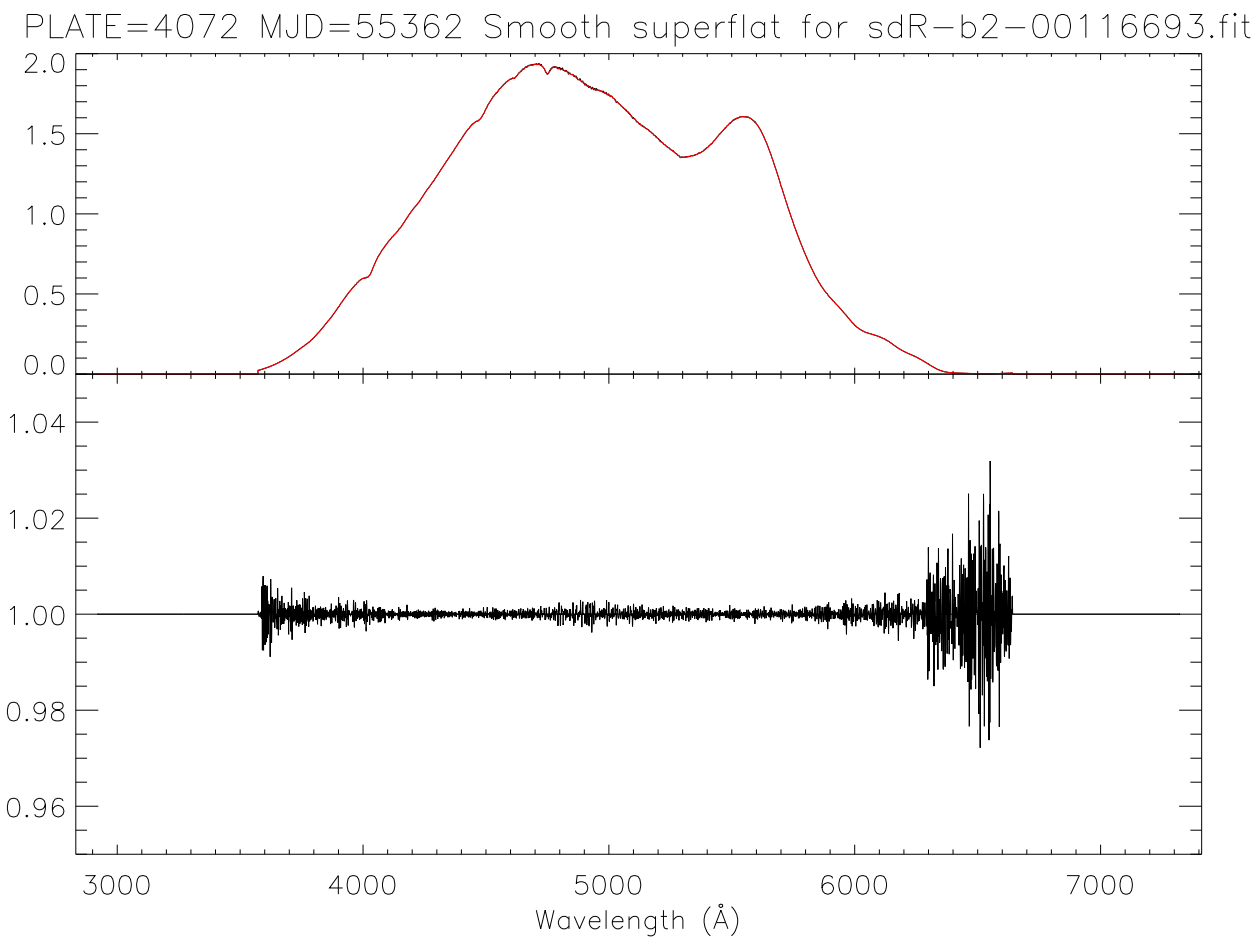

PLATE=4072 MJD=55362 sdR-b2-00116692.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 14.24 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

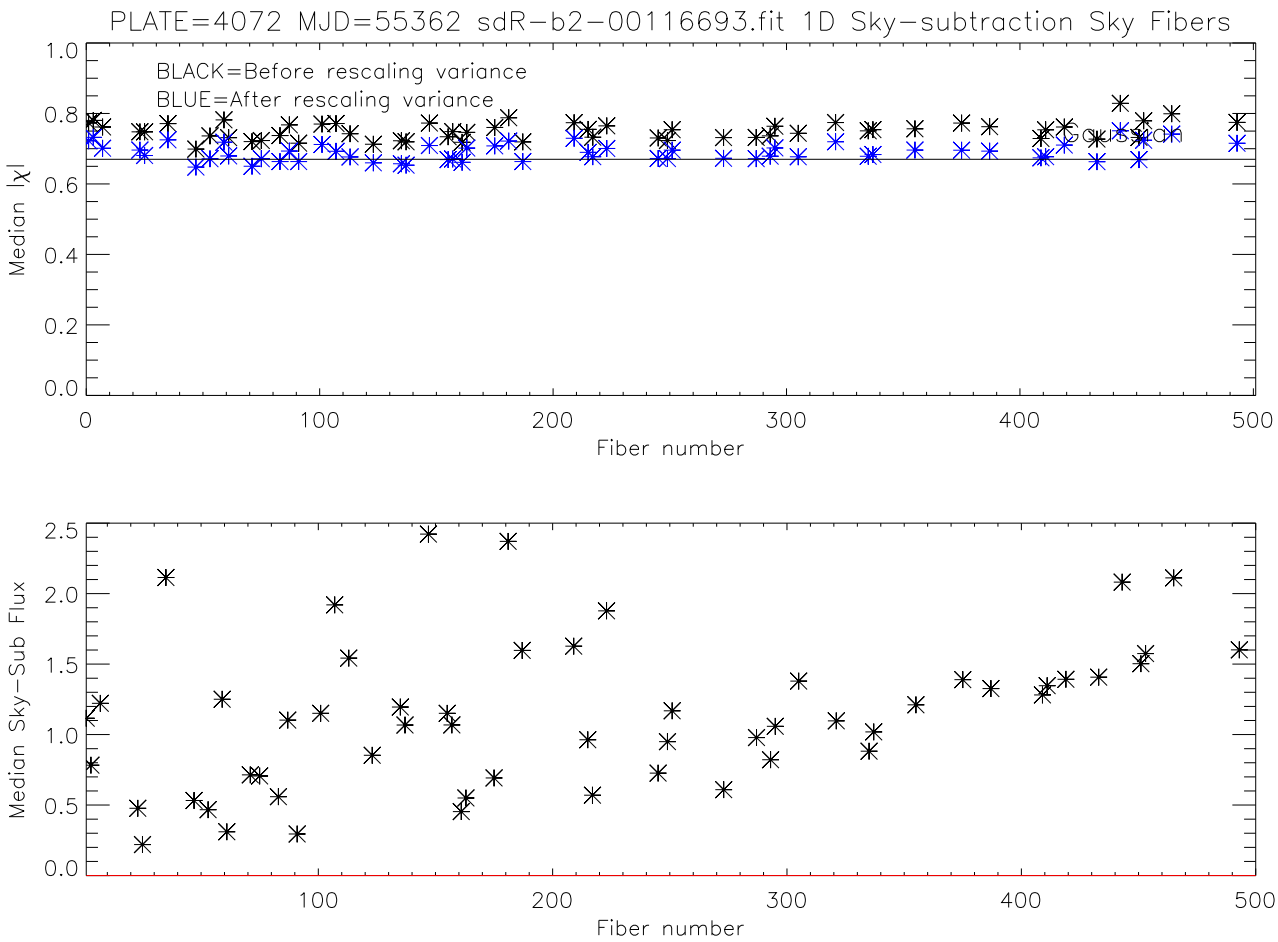

PLATE=4072 MJD=55362 sdR-b2-00116692.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.60 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

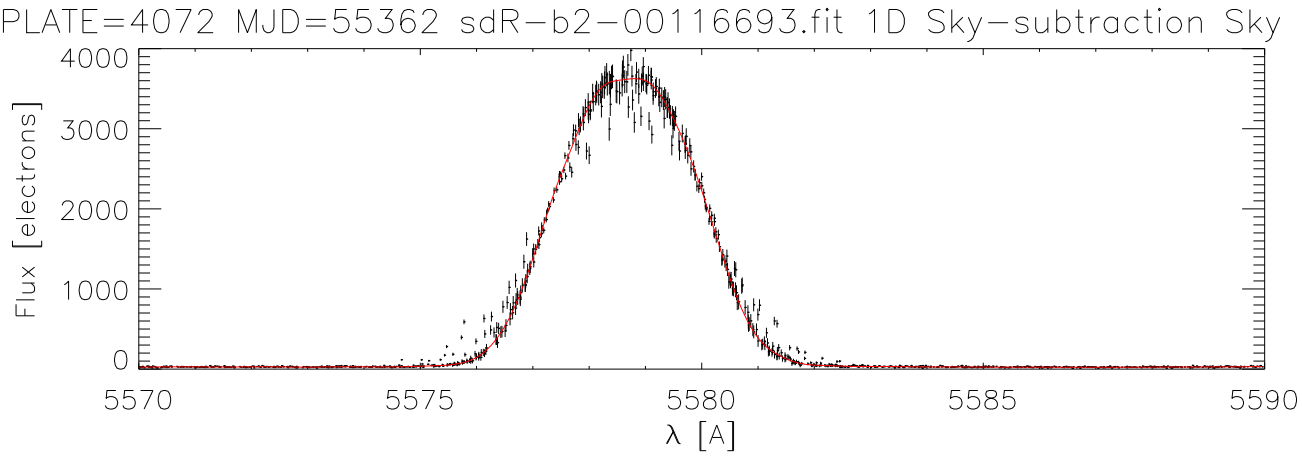

PLATE=4072 MJD=55362 Fiber-Flats for sdR-b2-00116695.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = 0.008
Max value = 1.448
Fiber-Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sat Apr 12 09:53:39 2014

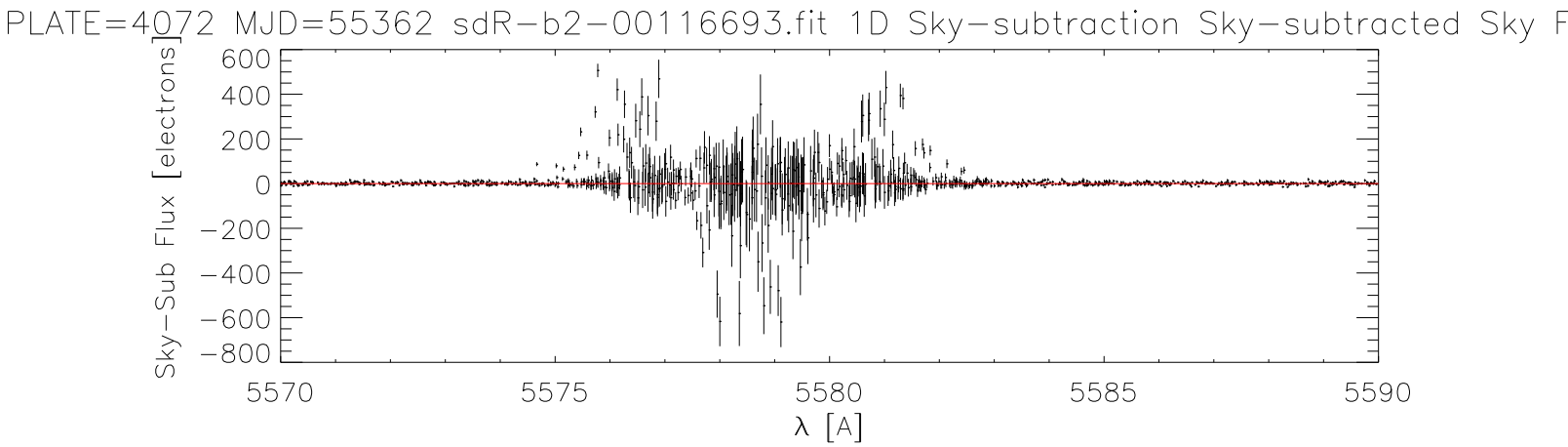

PLATE=4072 MJD=55362 Extraction chi$^2$ for sdR−b2−00116693.fit
BLACK = Final chisq extraction
$\chi^2$
0.0
0.5
1.0
1.5
0
1000
2000
3000
4000
Row number


PLATE=4072 MJD=55362 Sky Line Deviations for sdR-b2-00116693.fit
1.00 pix
Before shift
After shift
Fiber Number
500
400
300
200
100
0
4046
4358
5460
5577
6300
6363
6553
6923
6949
Sky Line Wavelength

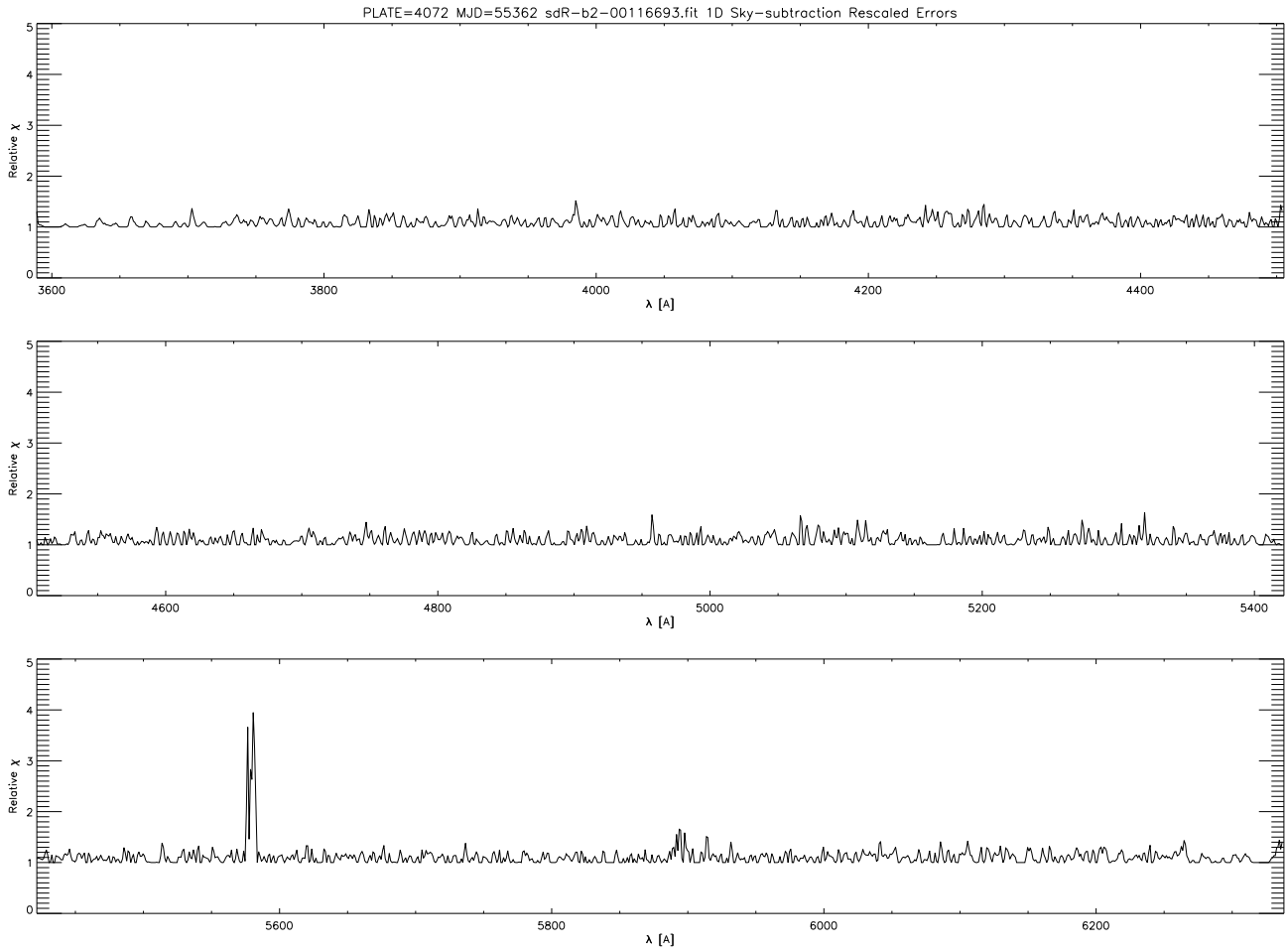

PLATE=4072 MJD=55362 Smooth superflat for sdR-b2-00116693.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

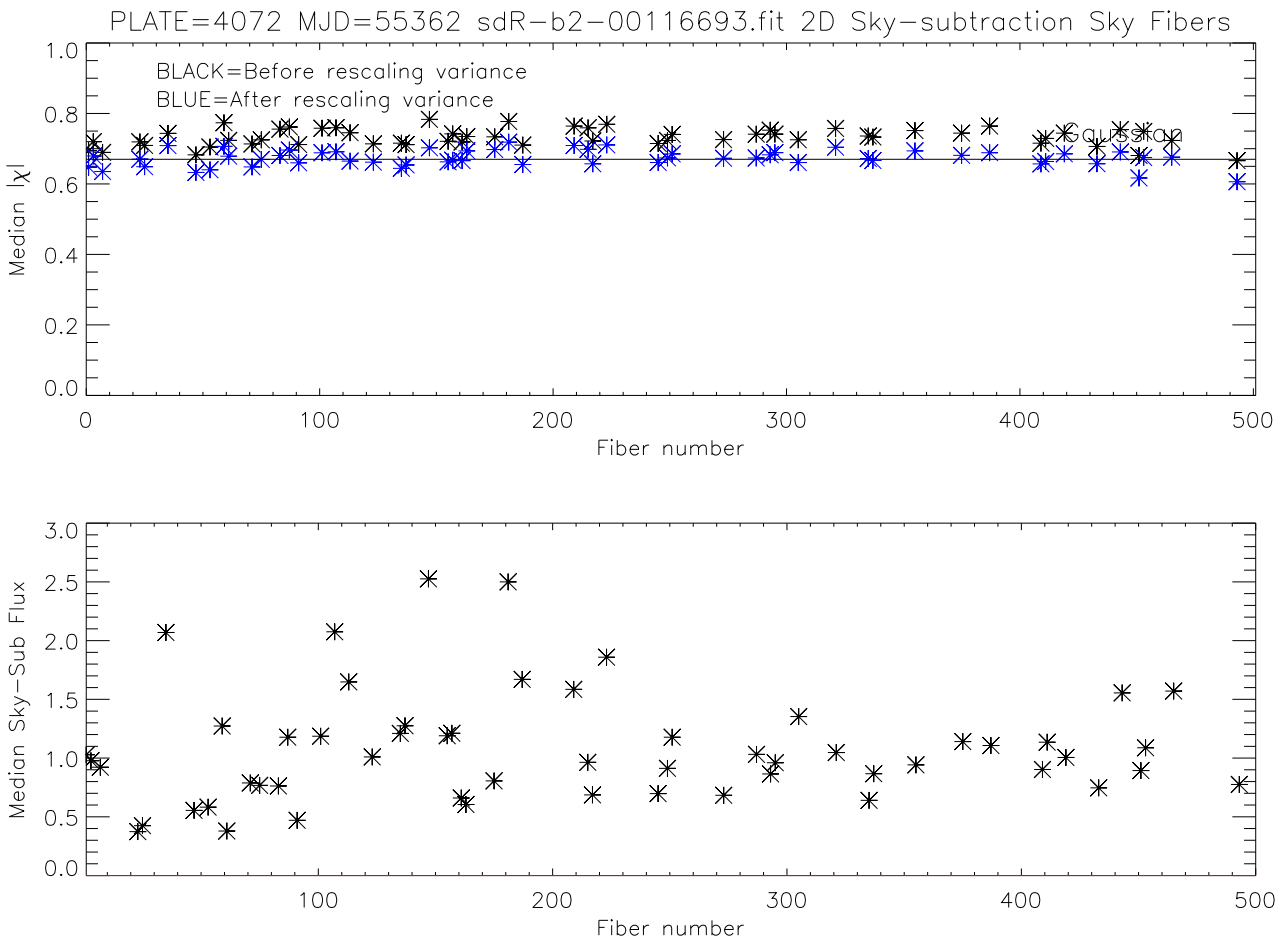

PLATE=4072 MJD=55362 sdR-b2-00116693.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number


PLATE=4072 MJD=55362 sdR-b2-00116693.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

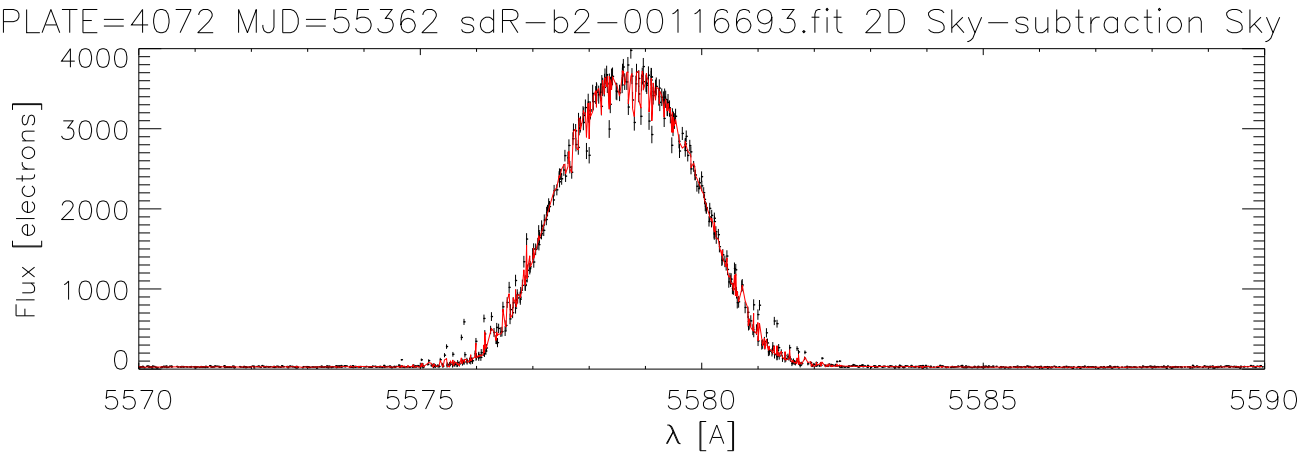

PLATE=4072 MJD=55362 sdR-b2-00116693.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
-600
-800
5570
5575
5580
5585
5590
λ [A]

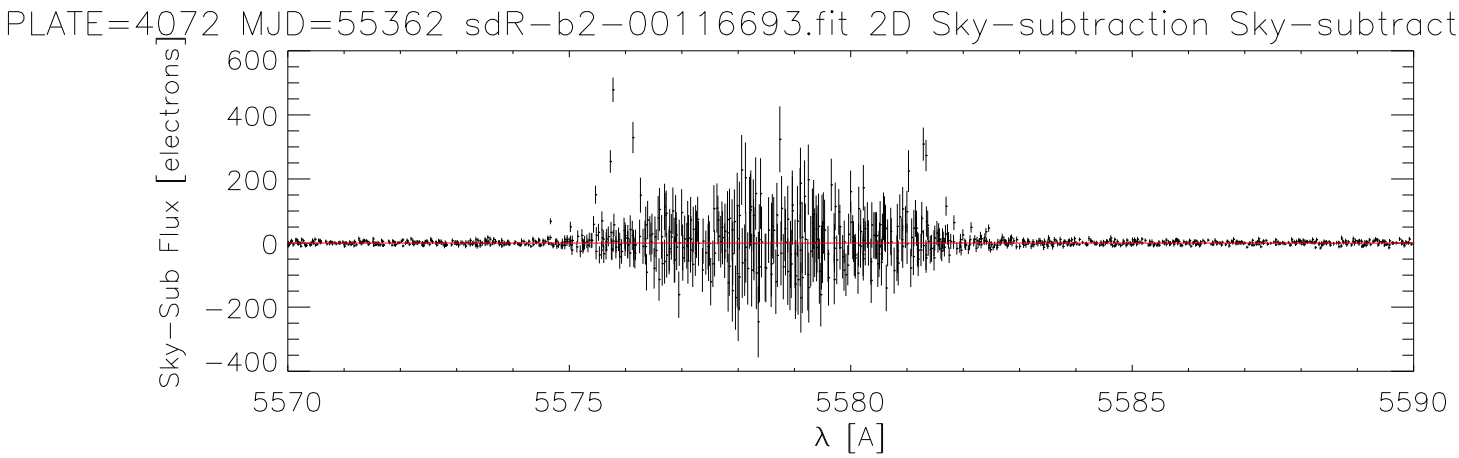
Number of sky fibers = 56



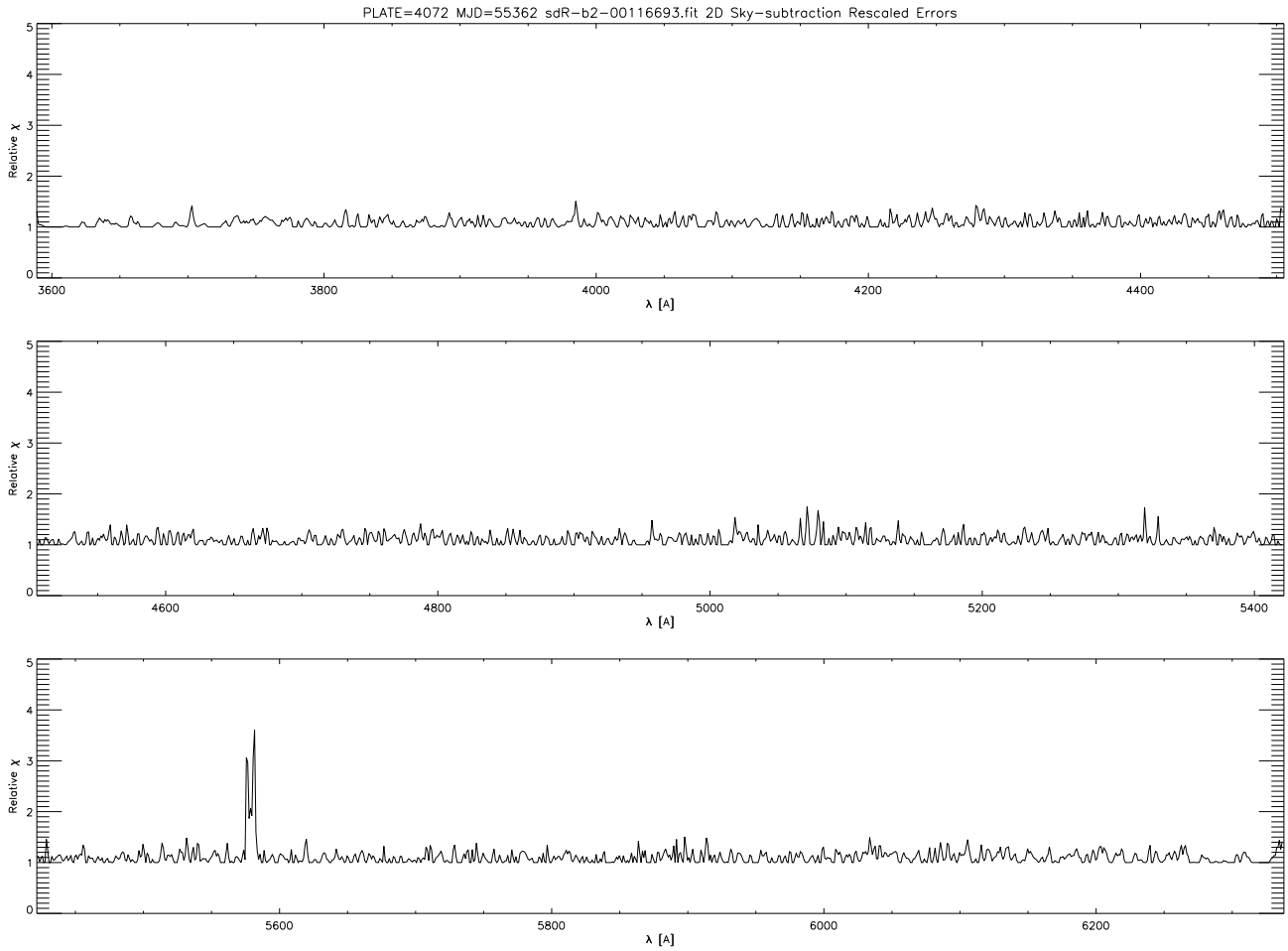

PLATE=4072 MJD=55362 sdR-b2-00116693.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Median |χ|
Fiber number
1.0
0.8
0.6
0.4
0.2
0.0
0
100
200
300
400
500

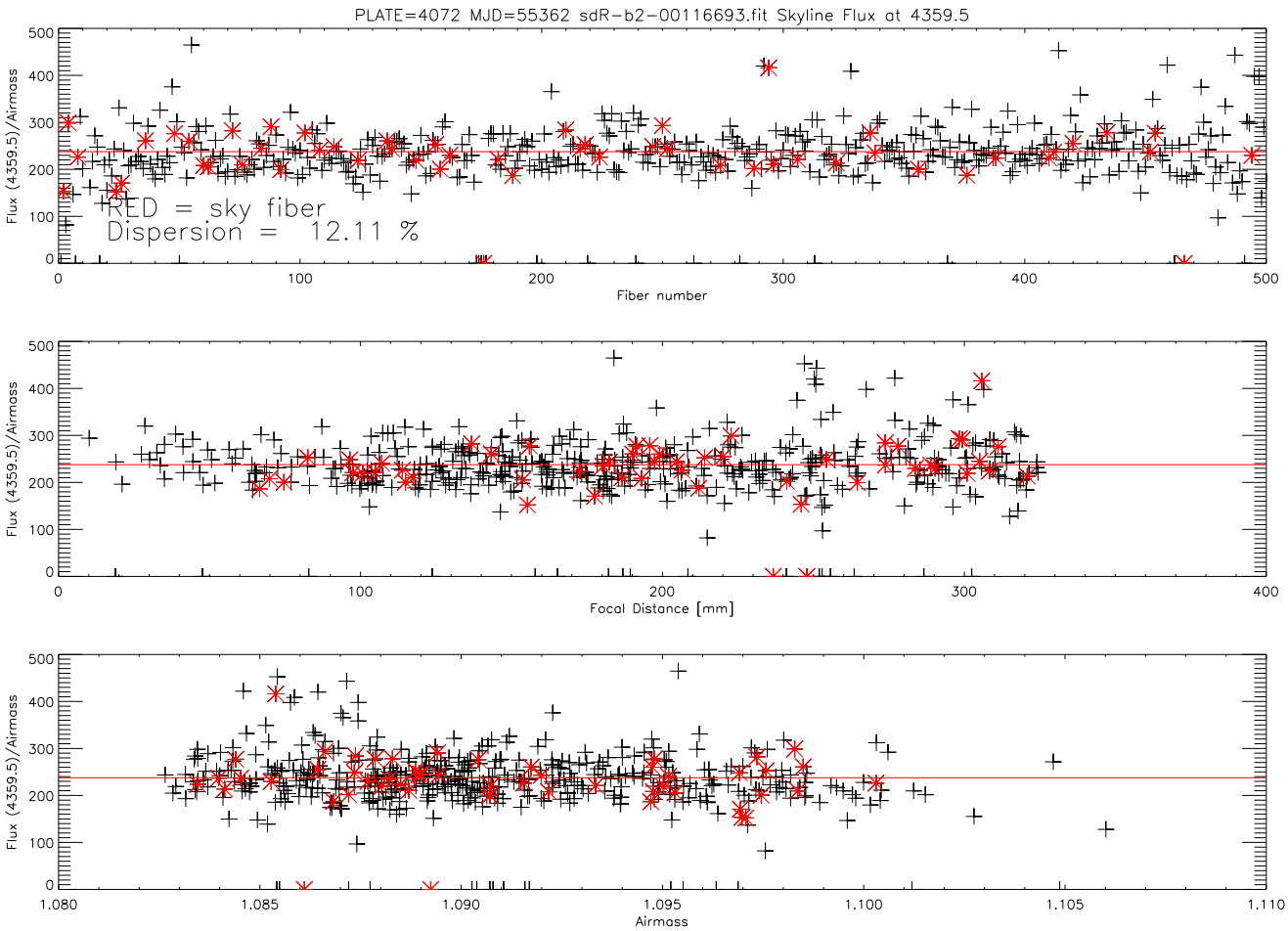

Median Sky-Sub Flux
Fiber number
3.0
2.5
2.0
1.5
1.0
0.5
0.0
100
200
300
400
500

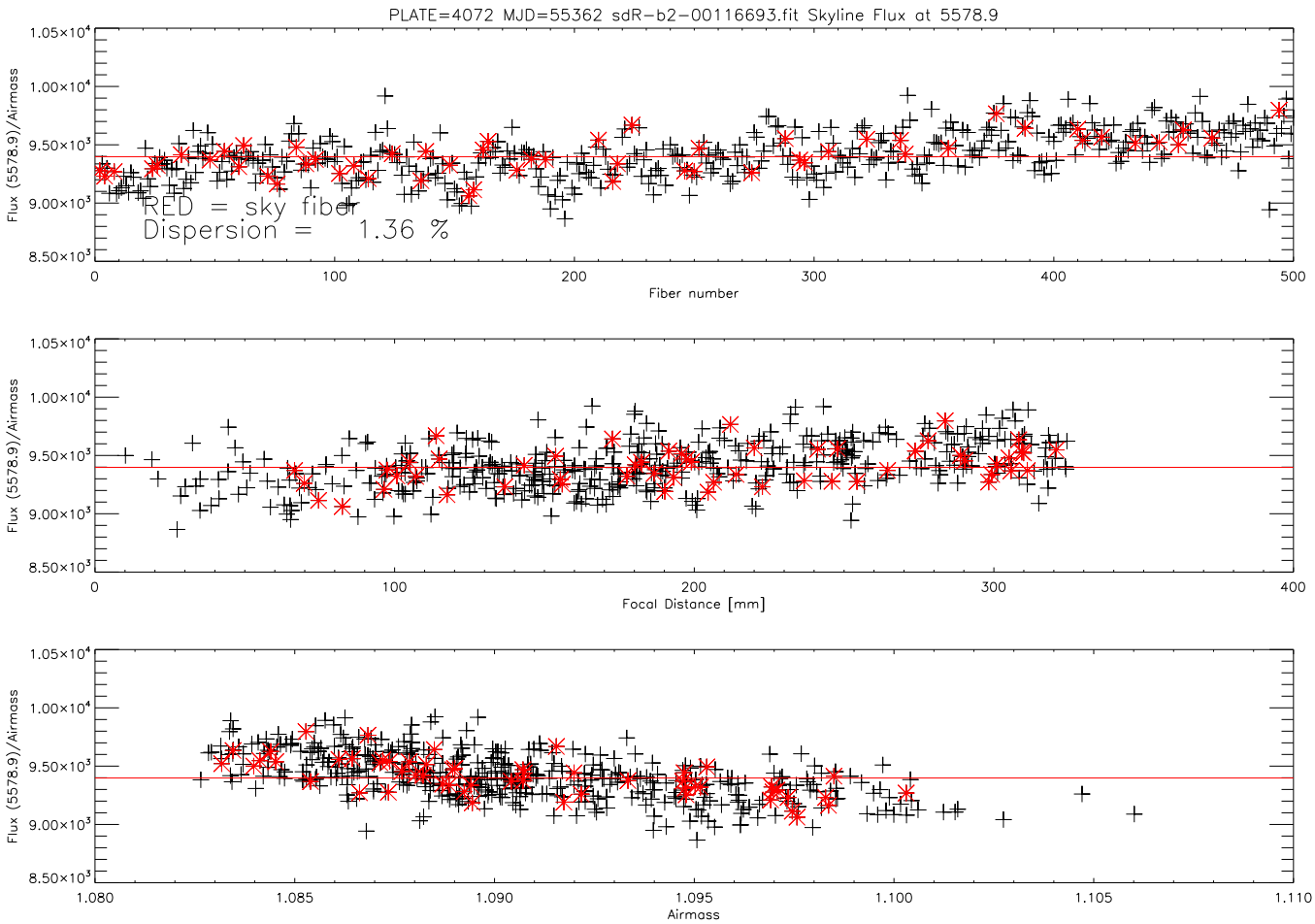

PLATE=4072 MJD=55362 sdR-b2-00116693.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

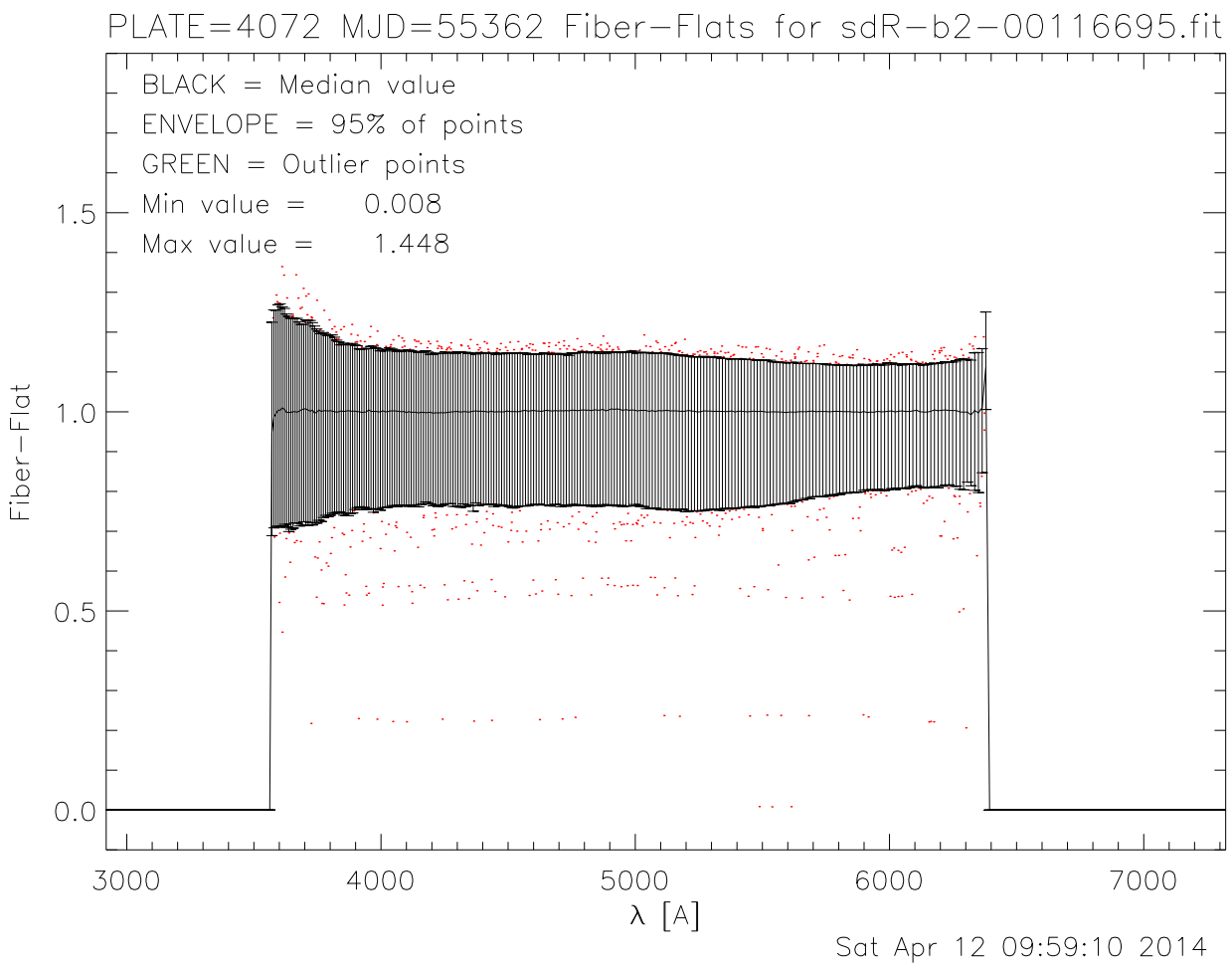

PLATE=4072 MJD=55362 sdR-b2-00116693.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

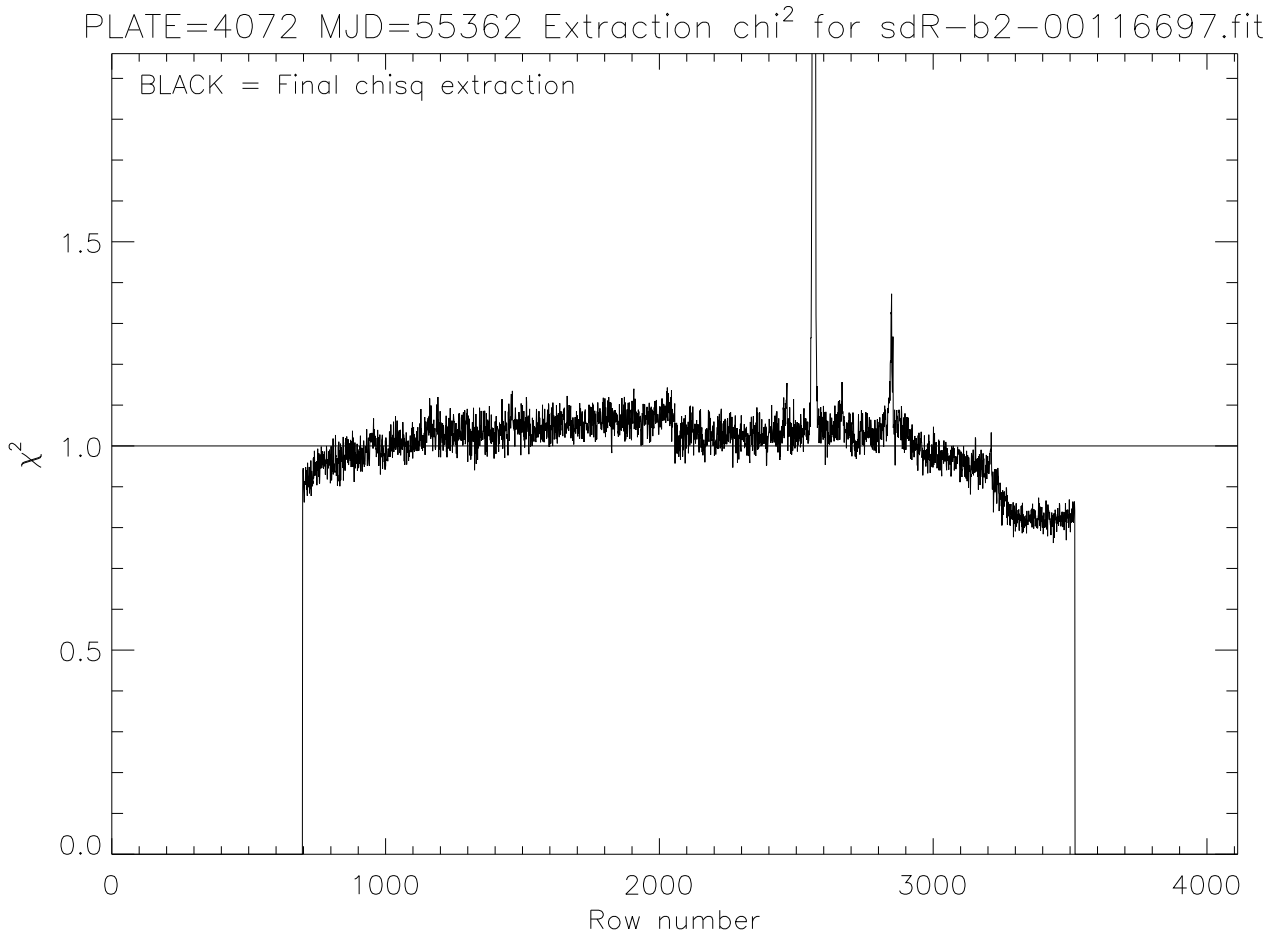
Number of sky fibers = 56

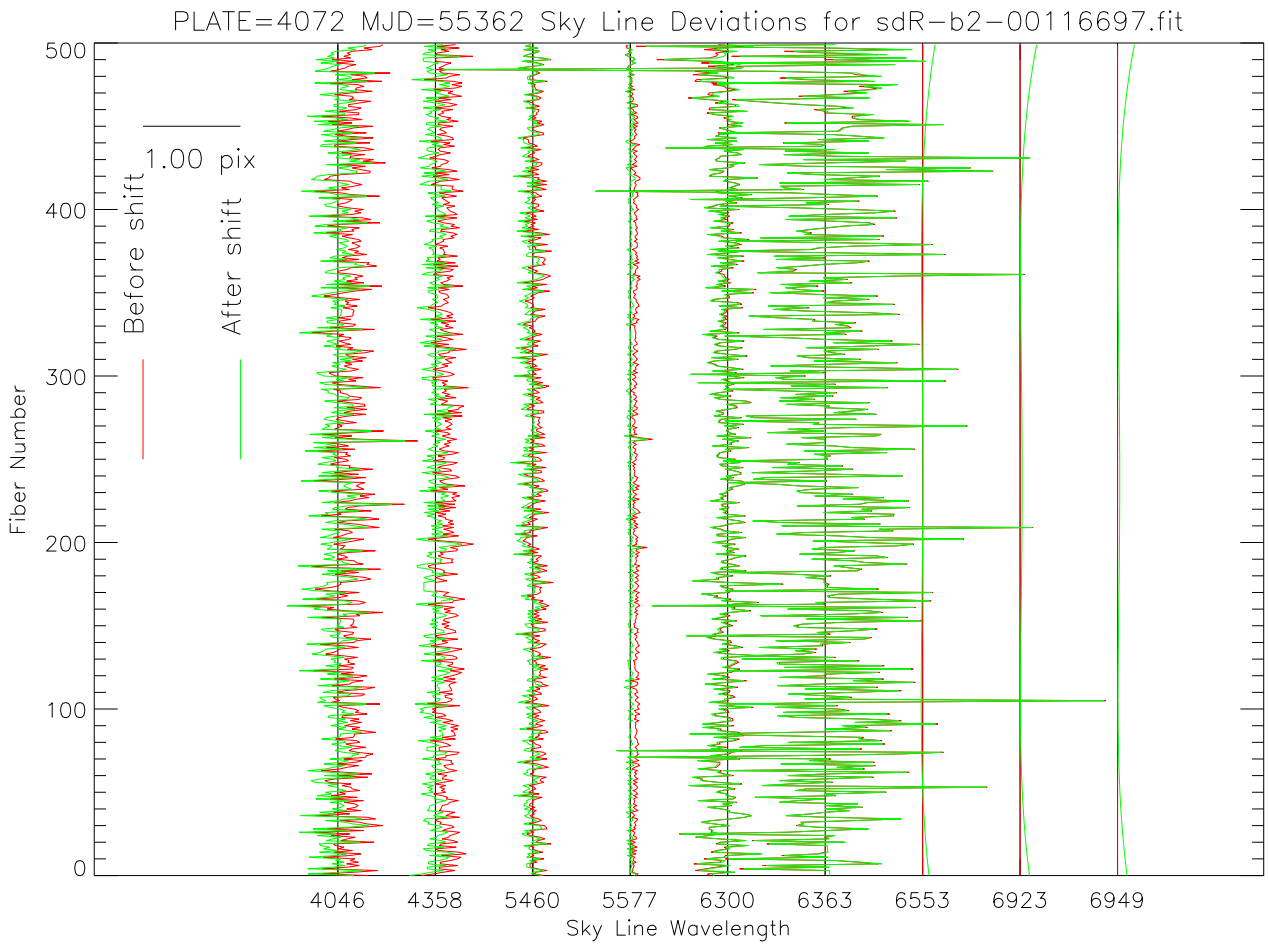


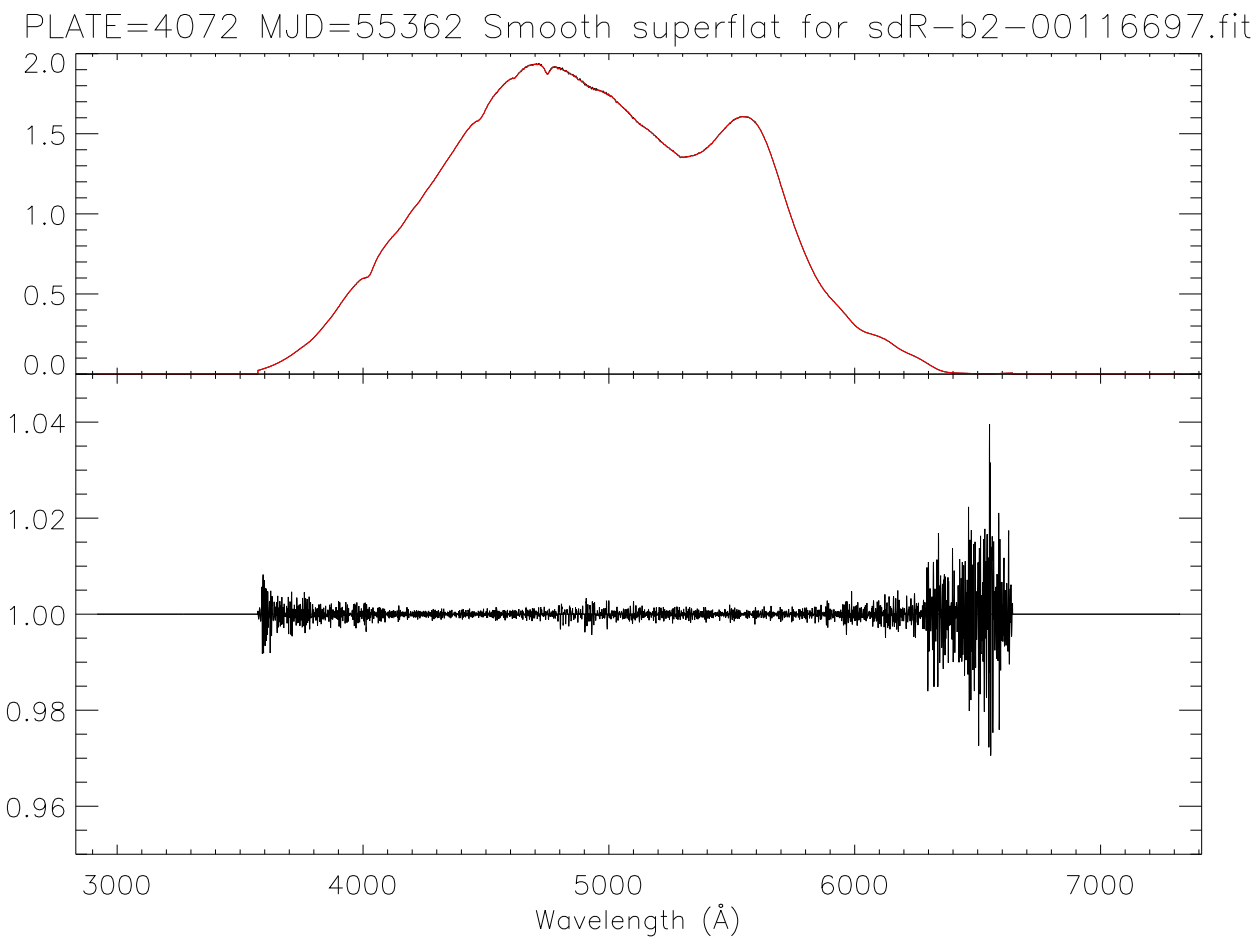

PLATE=4072 MJD=55362 sdR-b2-00116693.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 12.11 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

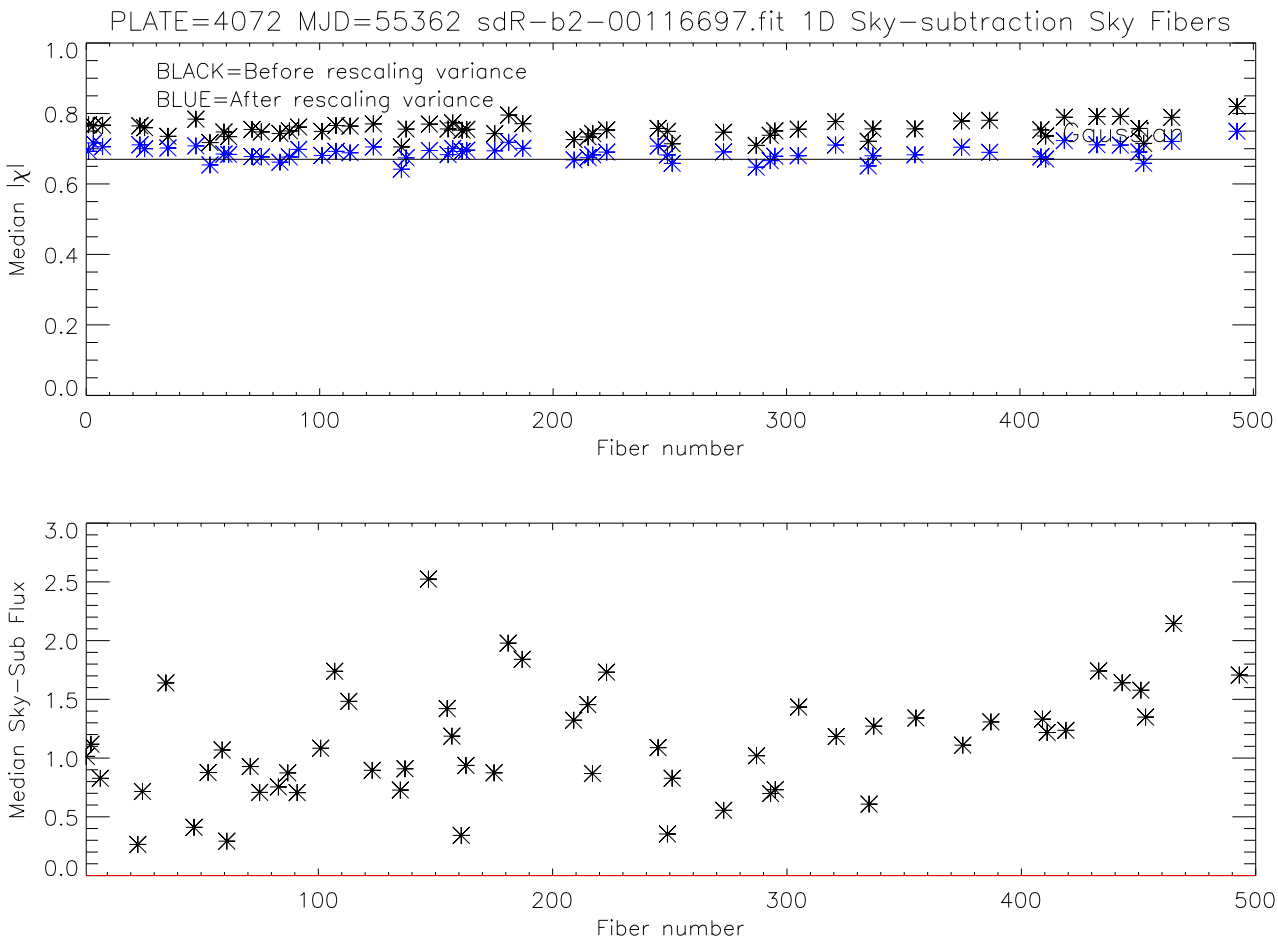

PLATE=4072 MJD=55362 sdR-b2-00116693.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
1.05×10⁴
1.00×10⁴
9.50×10³
9.00×10³
8.50×10³
RED = sky fiber
Dispersion = 1.36 %
0
100
200
300
400
500
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
1.080
1.085
1.090
1.095
1.100
1.105
1.110
Airmass

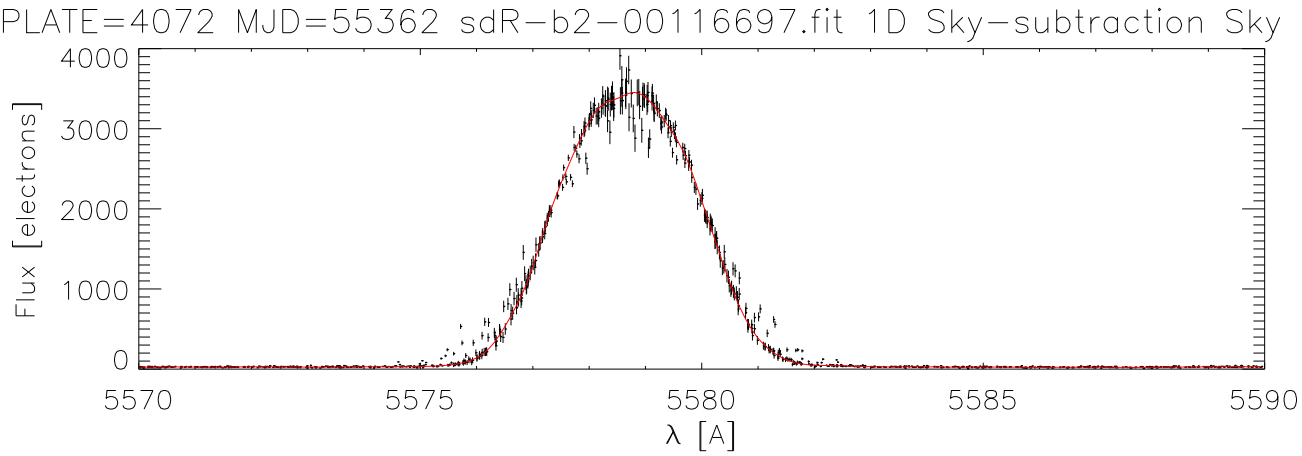

PLATE=4072 MJD=55362 Fiber-Flats for sdR-b2-00116695.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = 0.008
Max value = 1.448
Fiber-Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sat Apr 12 09:59:10 2014

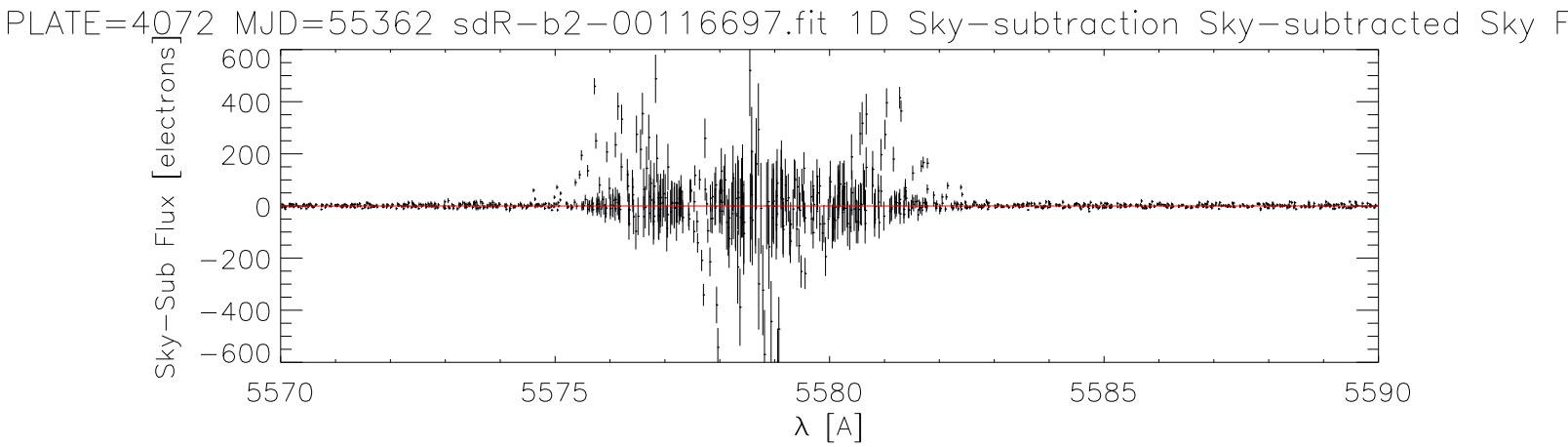

PLATE=4072 MJD=55362 Extraction chi$^2$ for sdR-b2-00116697.fit
BLACK = Final chisq extraction
$\chi^2$
0.0
0.5
1.0
1.5
0
1000
2000
3000
4000
Row number


PLATE=4072 MJD=55362 Sky Line Deviations for sdR-b2-00116697.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

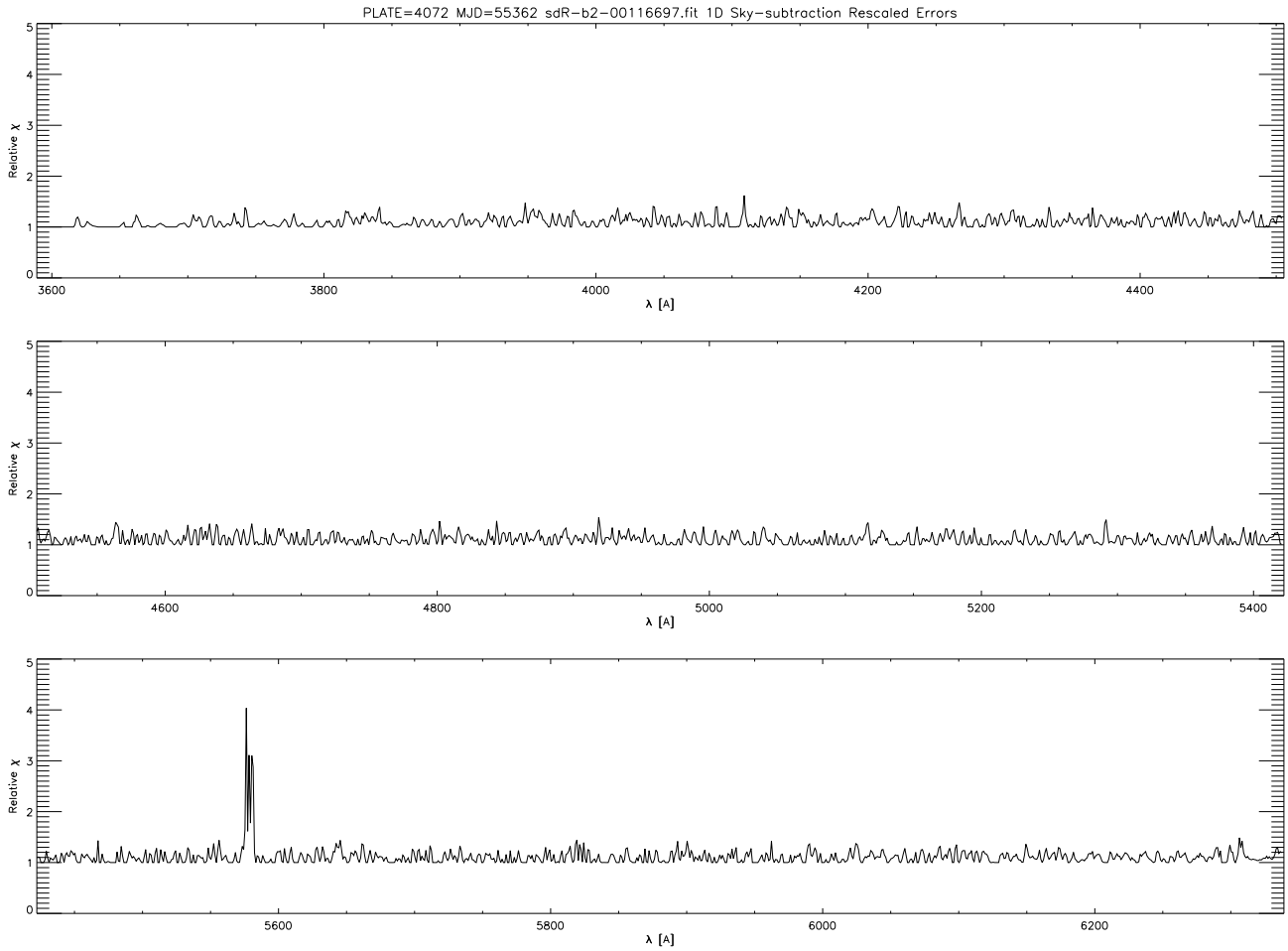

PLATE=4072 MJD=55362 Smooth superflat for sdR-b2-00116697.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

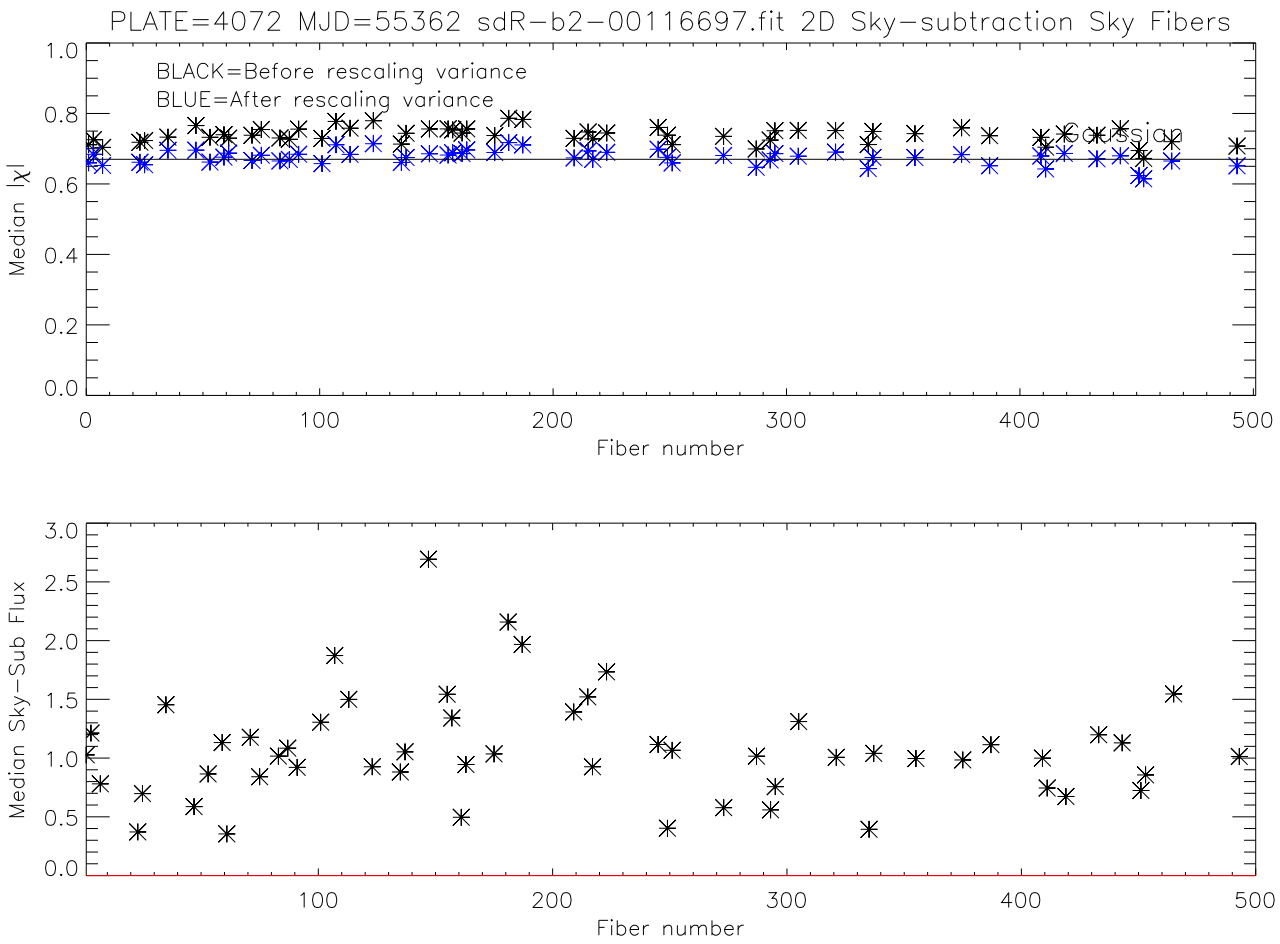

PLATE=4072 MJD=55362 sdR-b2-00116697.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number


PLATE=4072 MJD=55362 sdR-b2-00116697.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

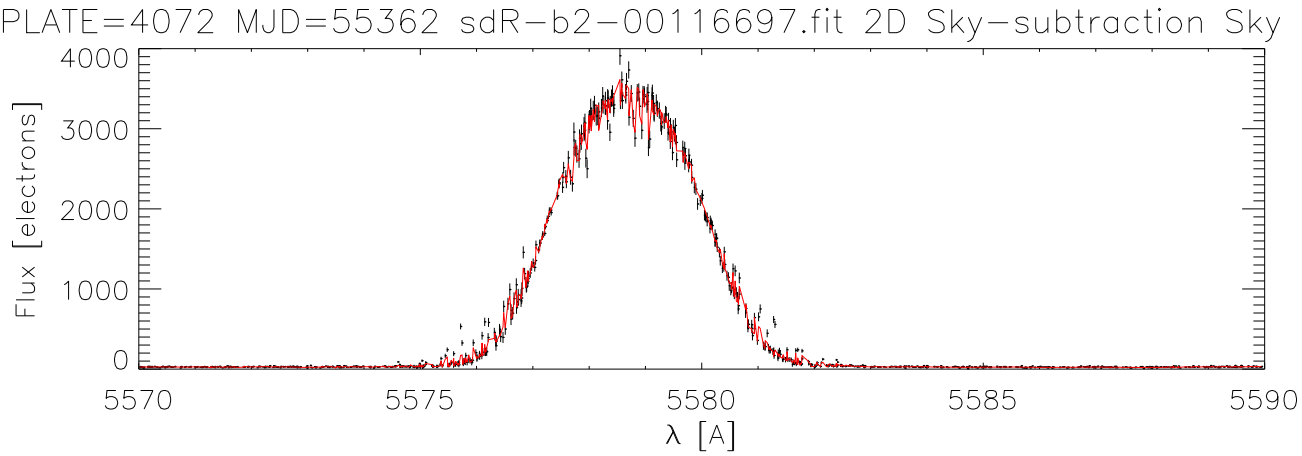

PLATE=4072 MJD=55362 sdR-b2-00116697.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

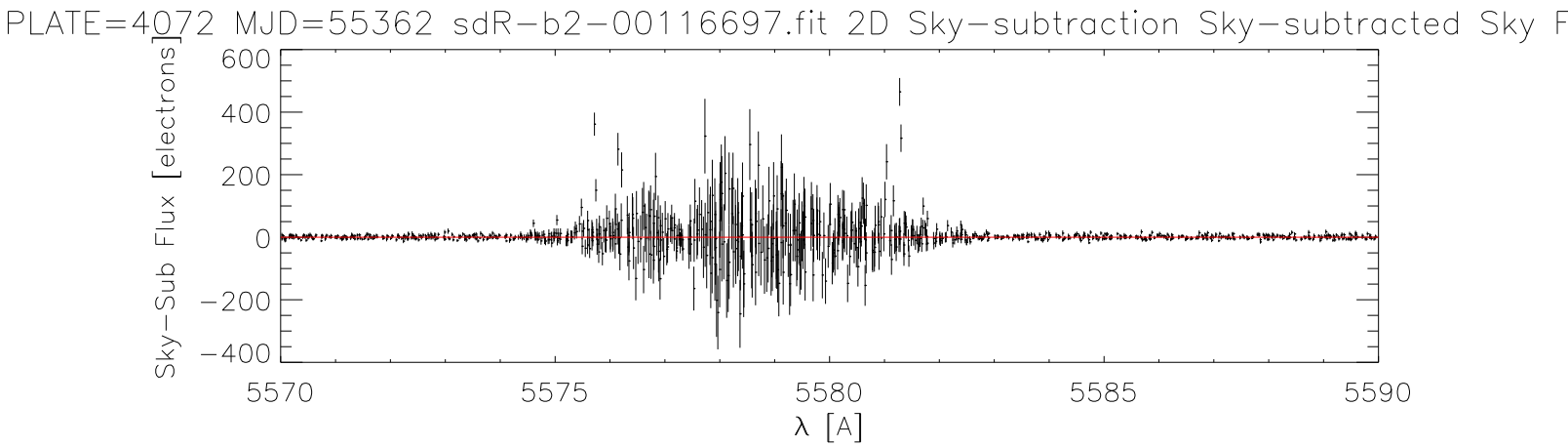
Number of sky fibers = 56



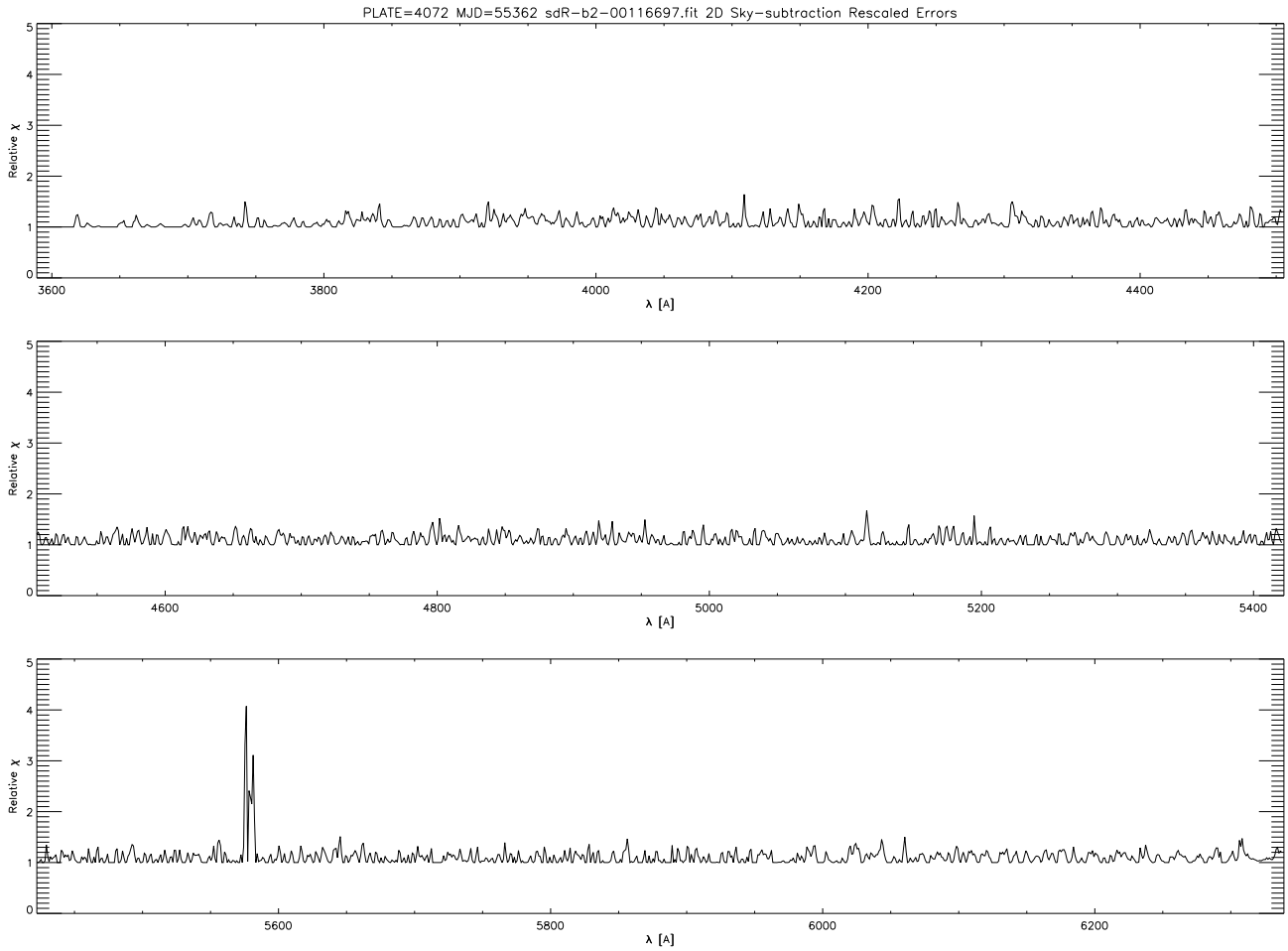

PLATE=4072 MJD=55362 sdR-b2-00116697.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Median |χ|
Fiber number

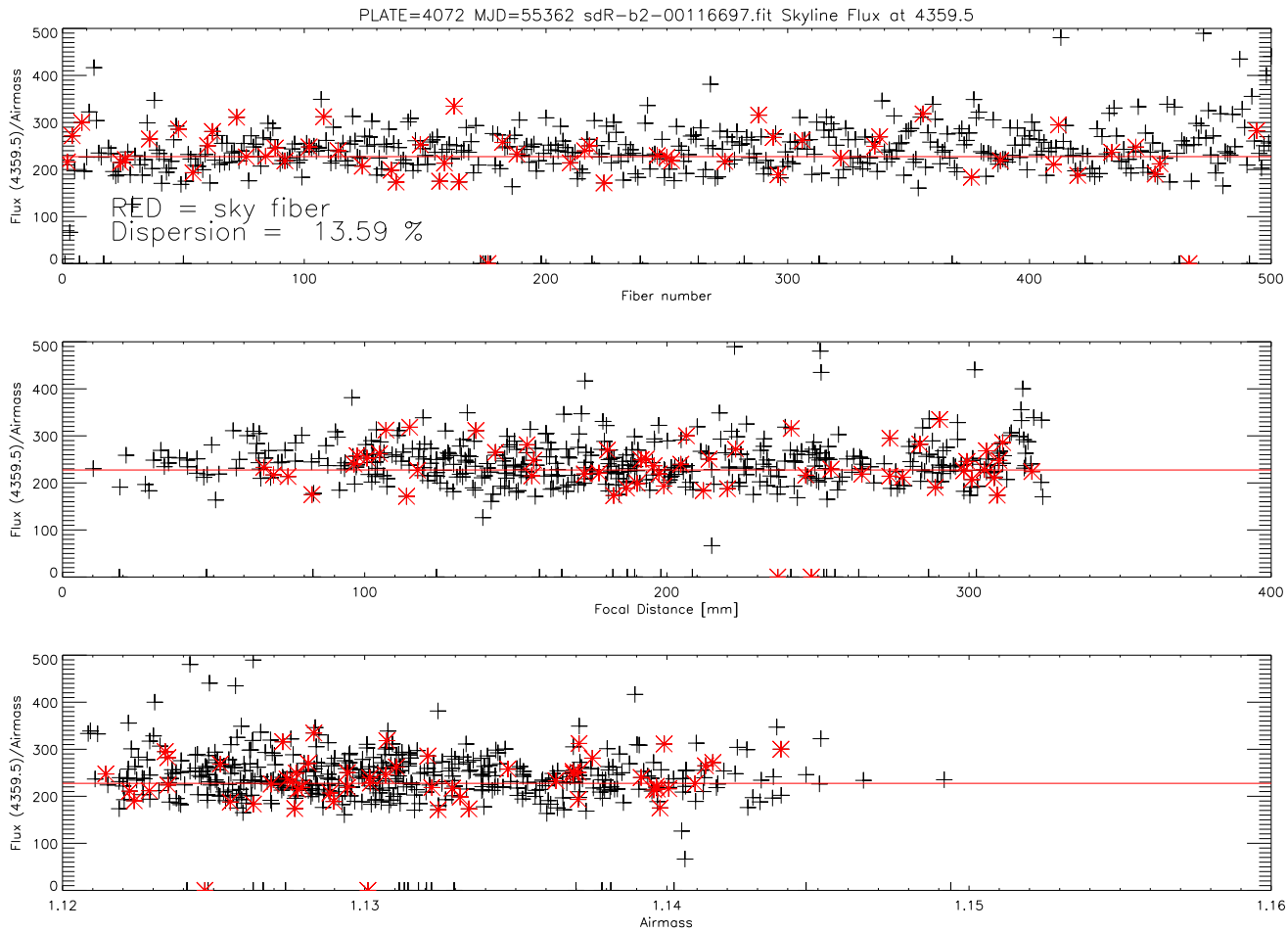

Median Sky-Sub Flux
Fiber number

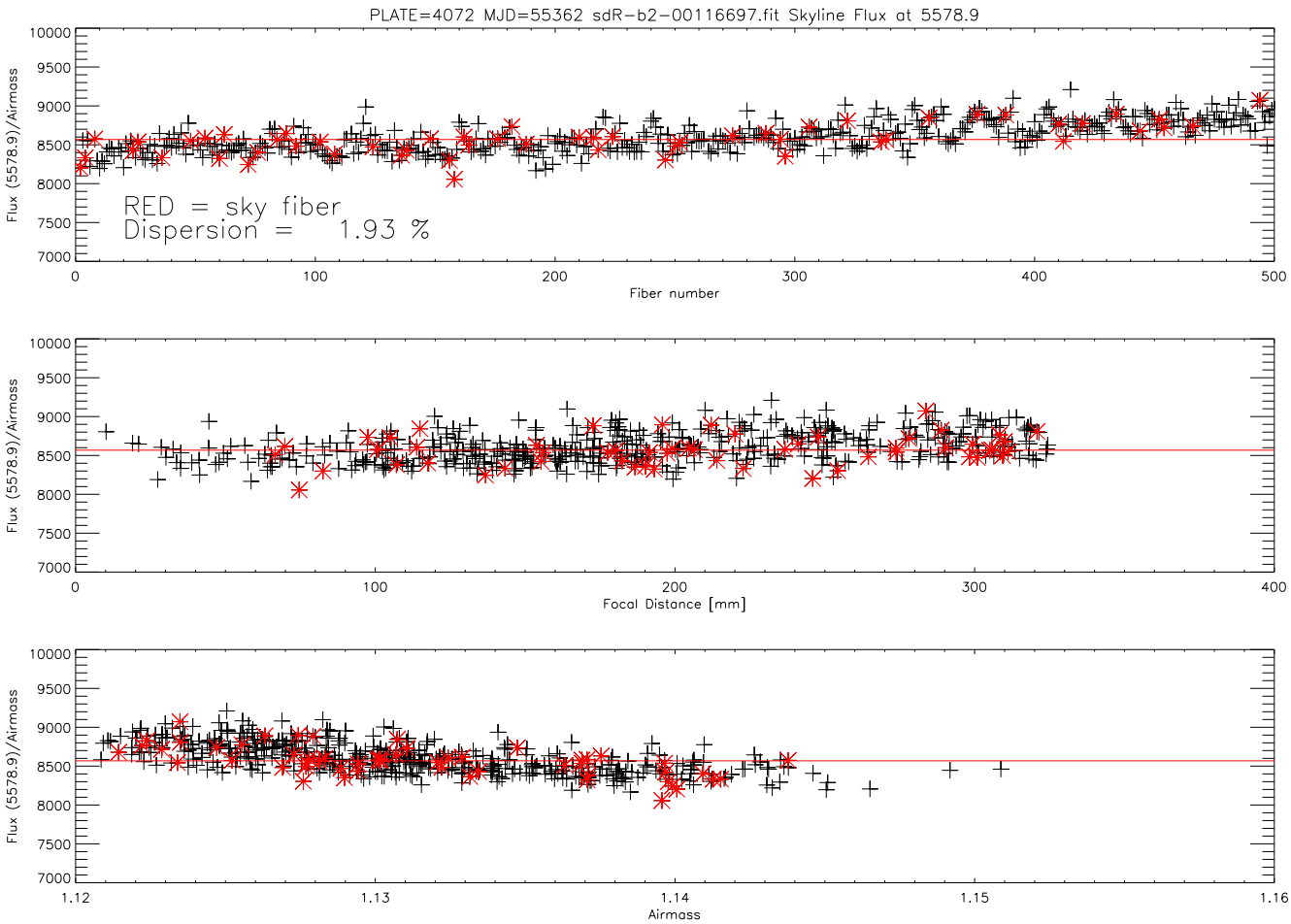

PLATE=4072 MJD=55362 sdR-b2-00116697.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]


PLATE=4072 MJD=55362 sdR-b2-00116697.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]

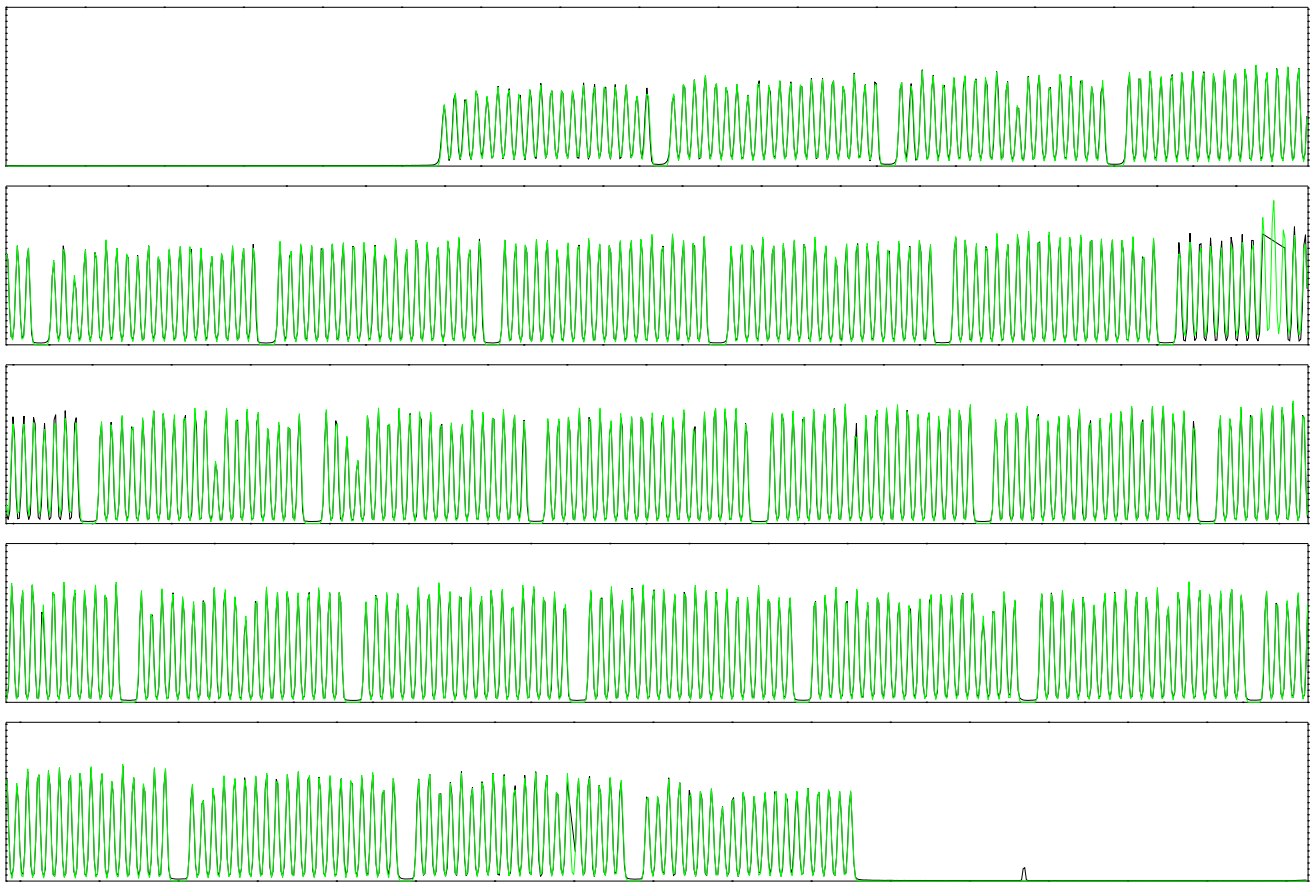
Number of sky fibers = 56



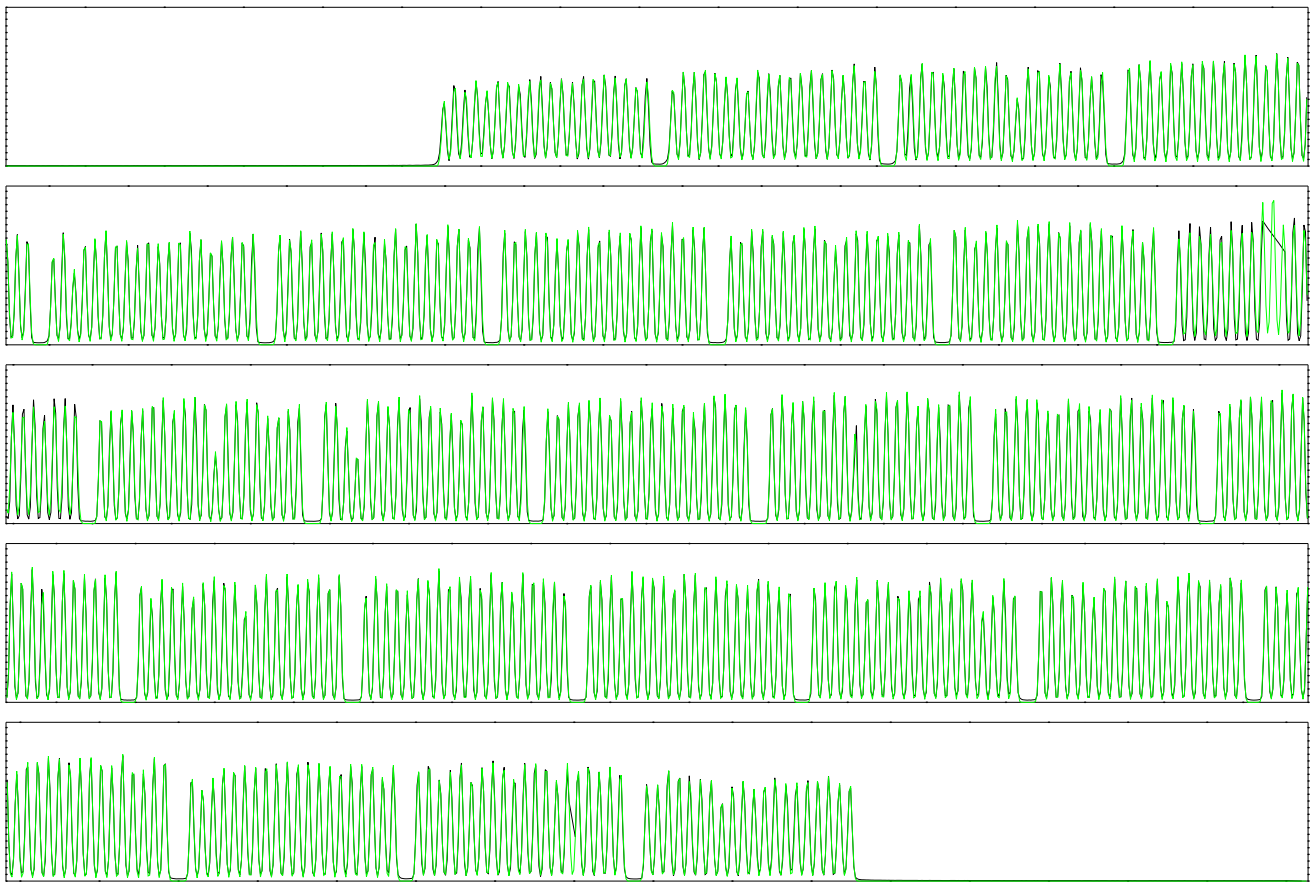

PLATE=4072 MJD=55362 sdR-b2-00116697.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 13.59 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

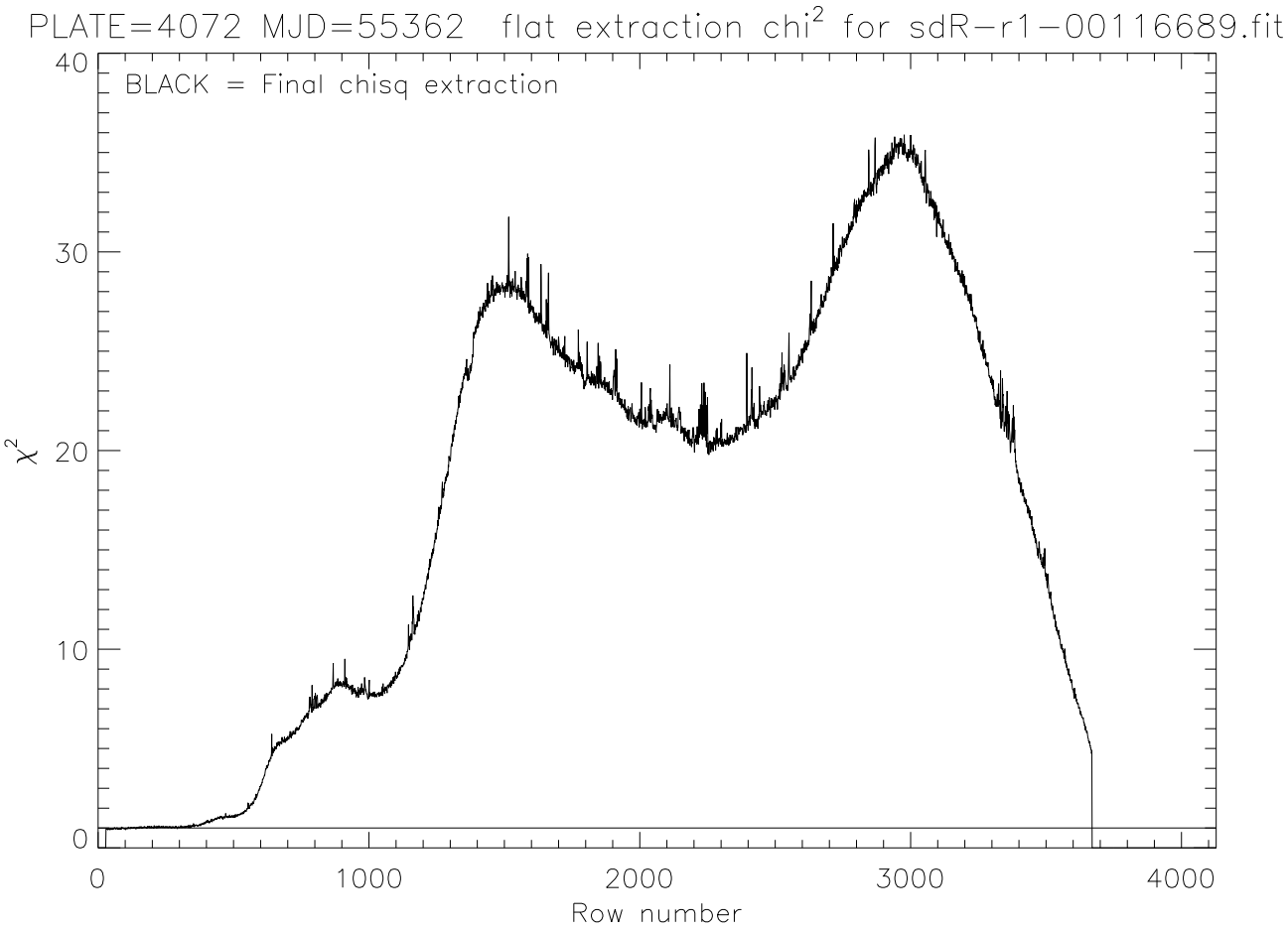

PLATE=4072 MJD=55362 sdR-b2-00116697.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.93 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

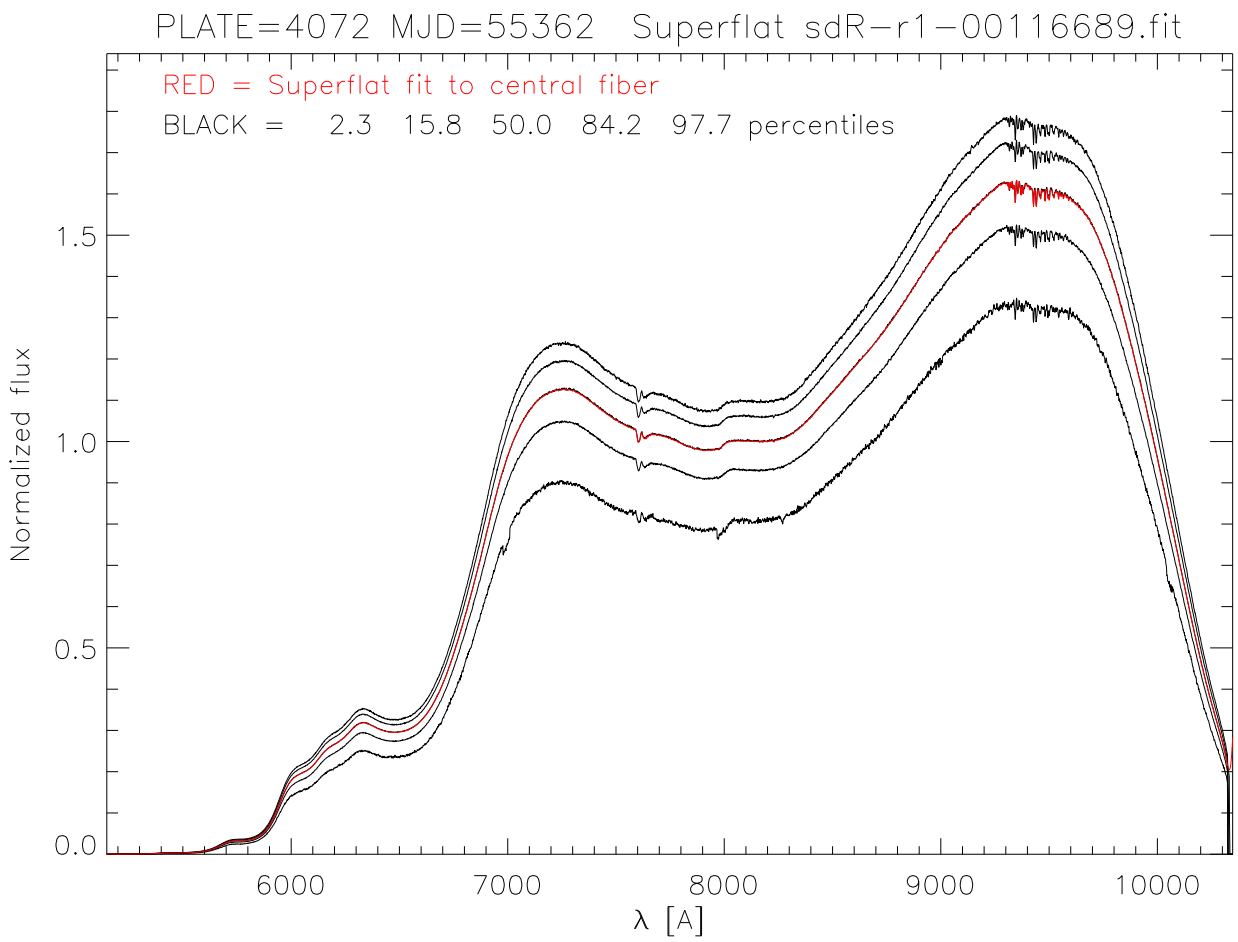
PLATE=4072 MJD=55362 Traces sdR-r1-00116689.fit

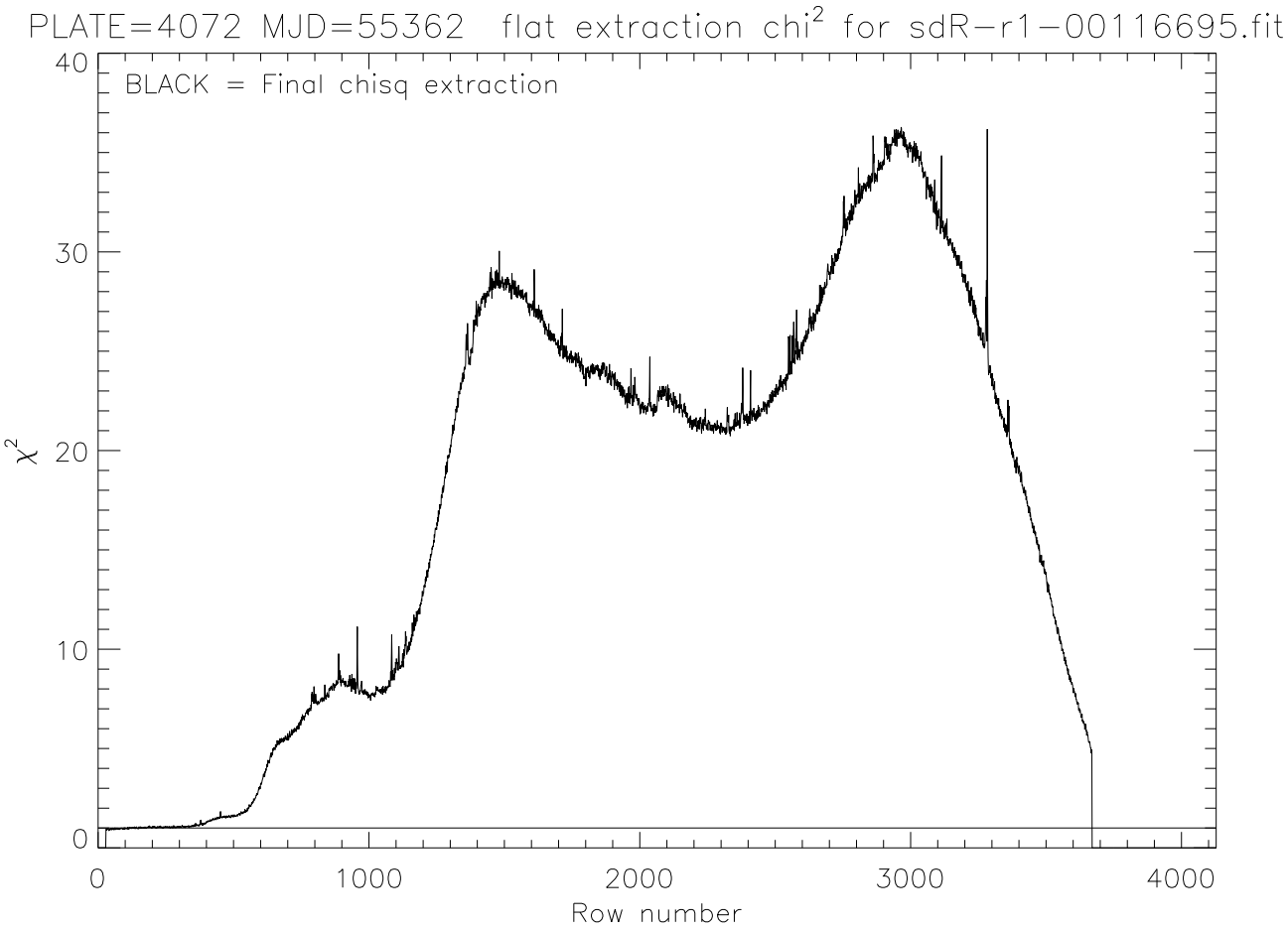


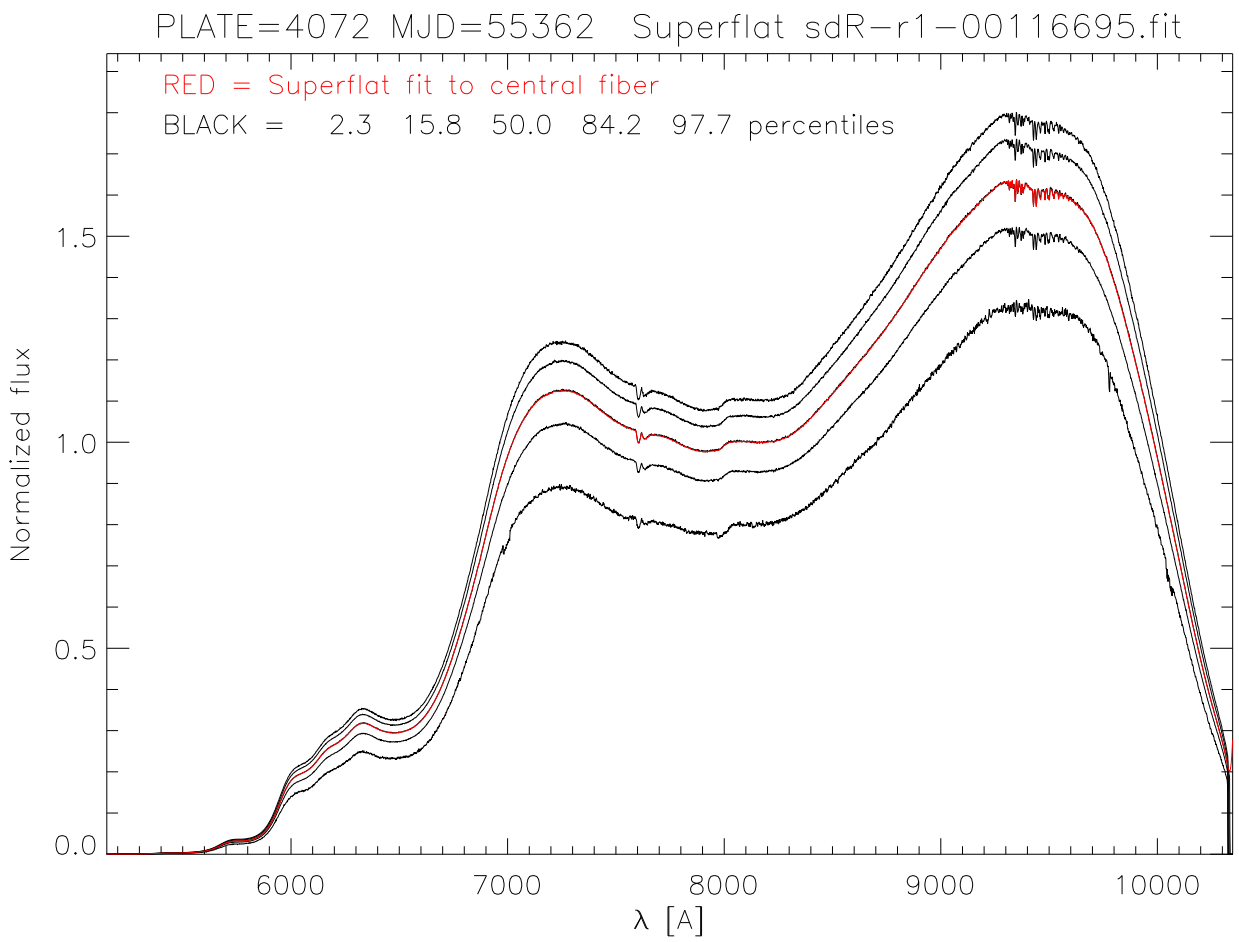
PLATE=4072 MJD=55362 Traces sdR-r1-00116695.fit

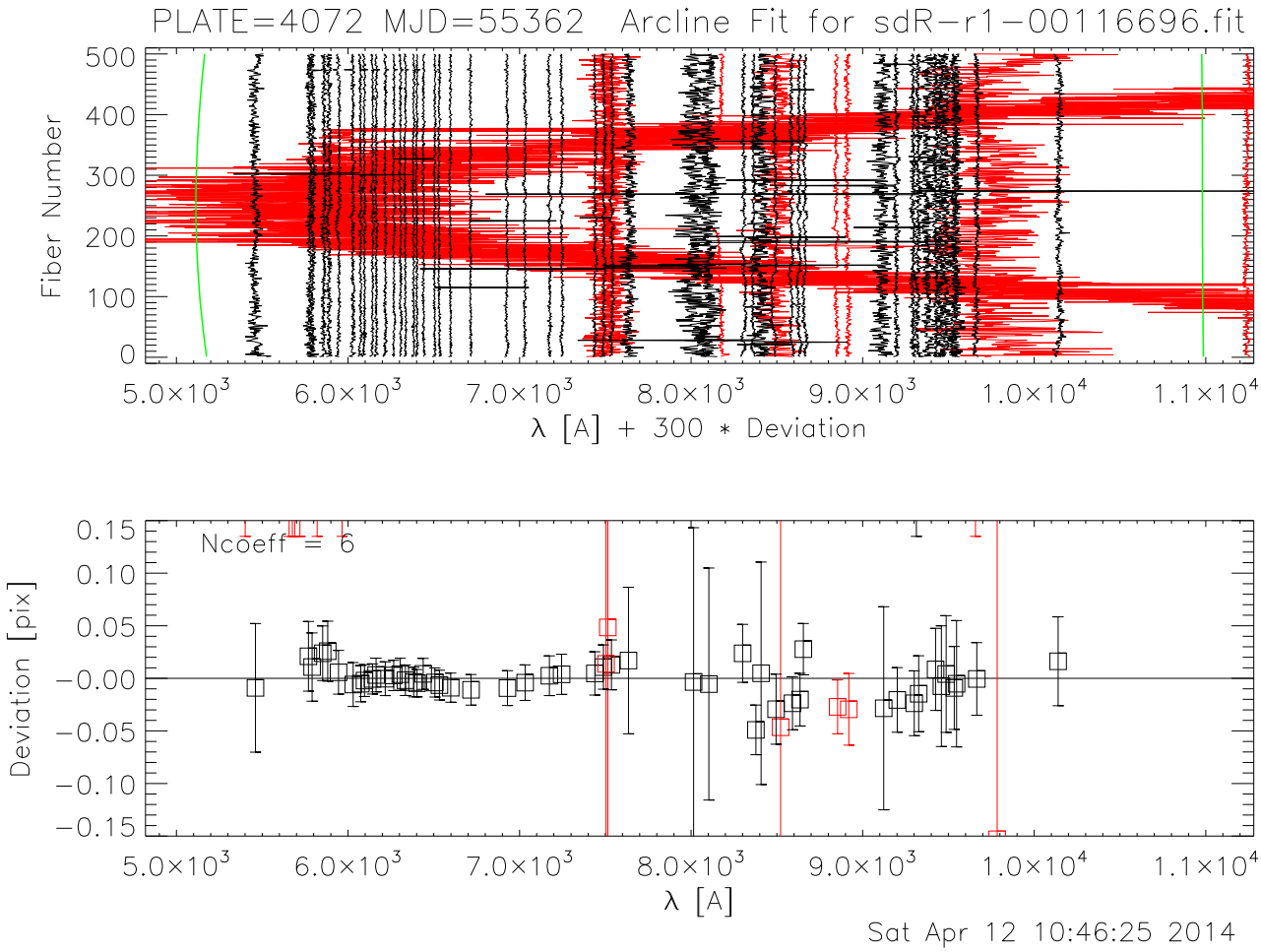


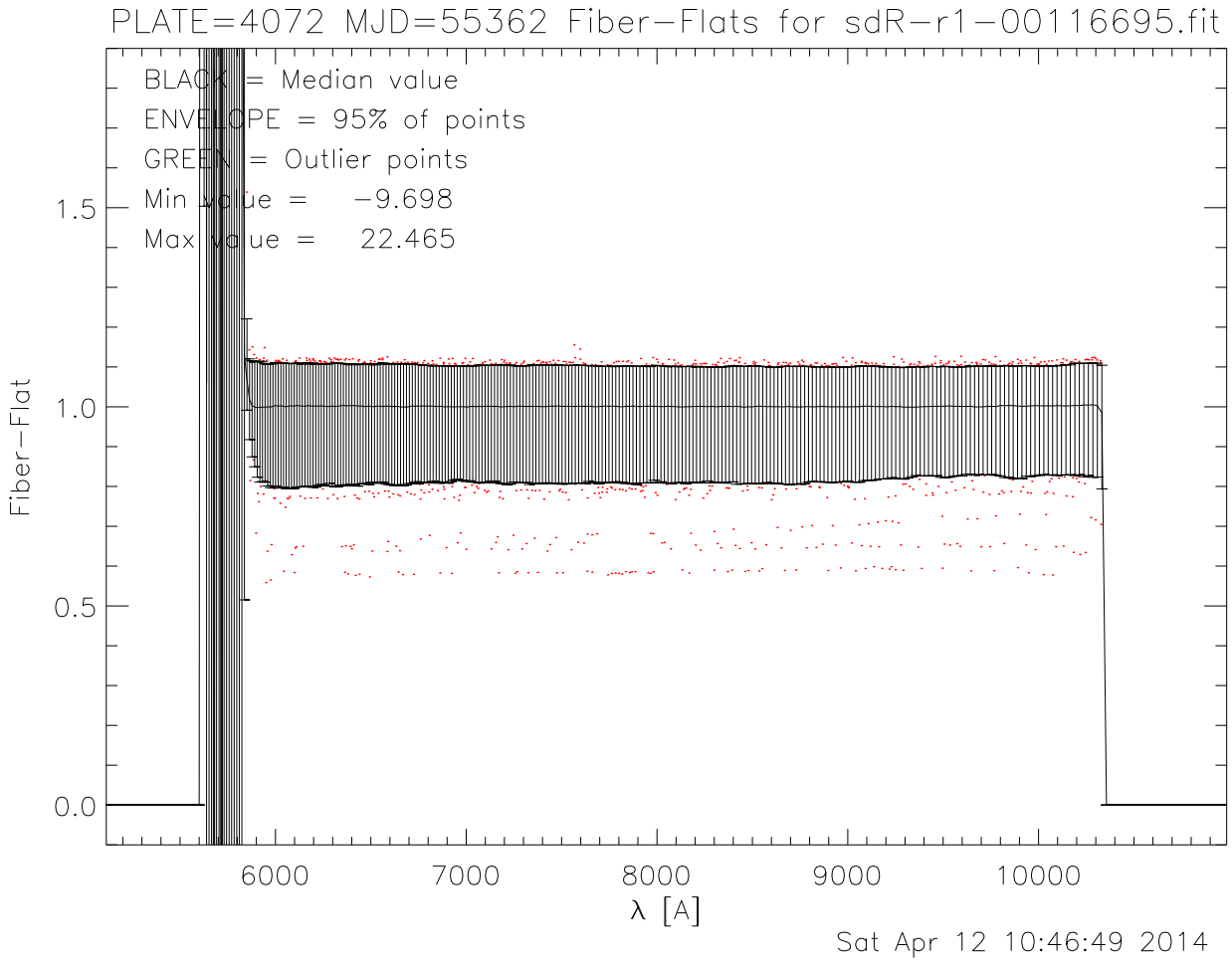

PLATE=4072 MJD=55362 flat extraction chi$^2$ for sdR−r1−00116689.fit
BLACK = Final chisq extraction
$\chi^2$
0
10
20
30
40
0
1000
2000
3000
4000
Row number

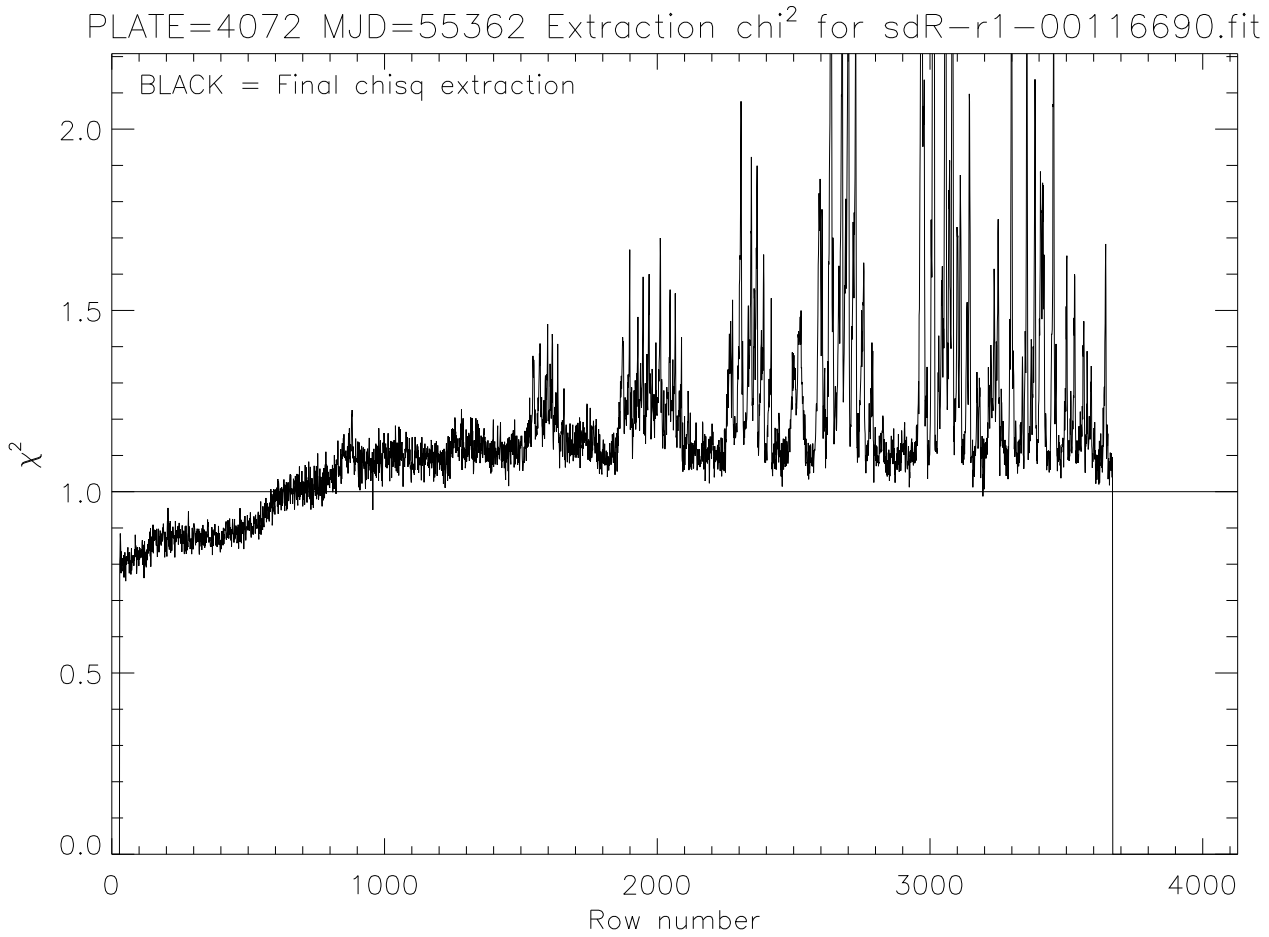

PLATE=4072 MJD=55362 Superflat sdR-r1-00116689.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
0.0
0.5
1.0
1.5
6000
7000
8000
9000
10000
λ [A]

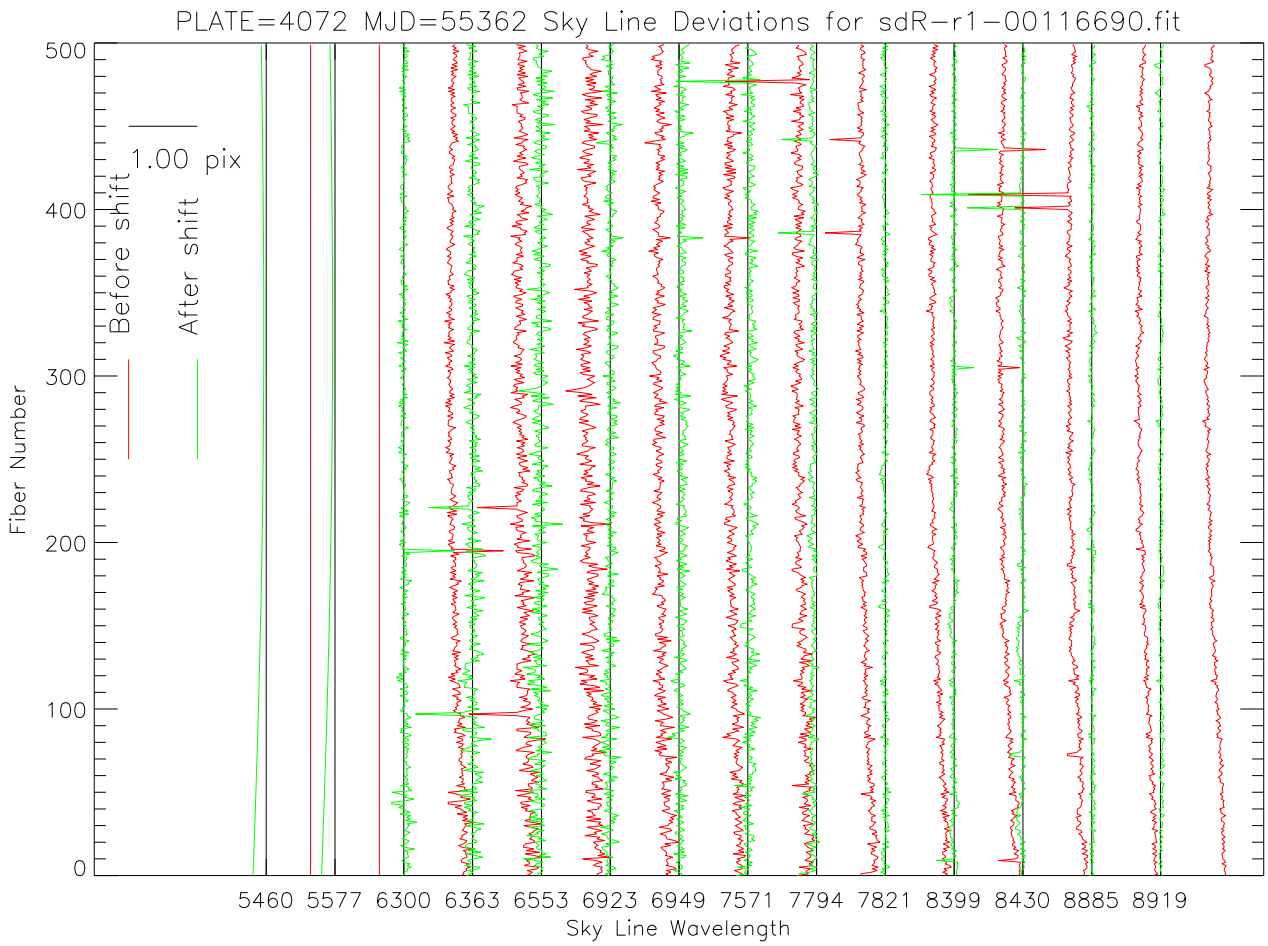

PLATE=4072 MJD=55362 flat extraction chi$^2$ for sdR−r1−00116695.fit
BLACK = Final chisq extraction
$\chi^2$
0
10
20
30
40
0
1000
2000
3000
4000
Row number

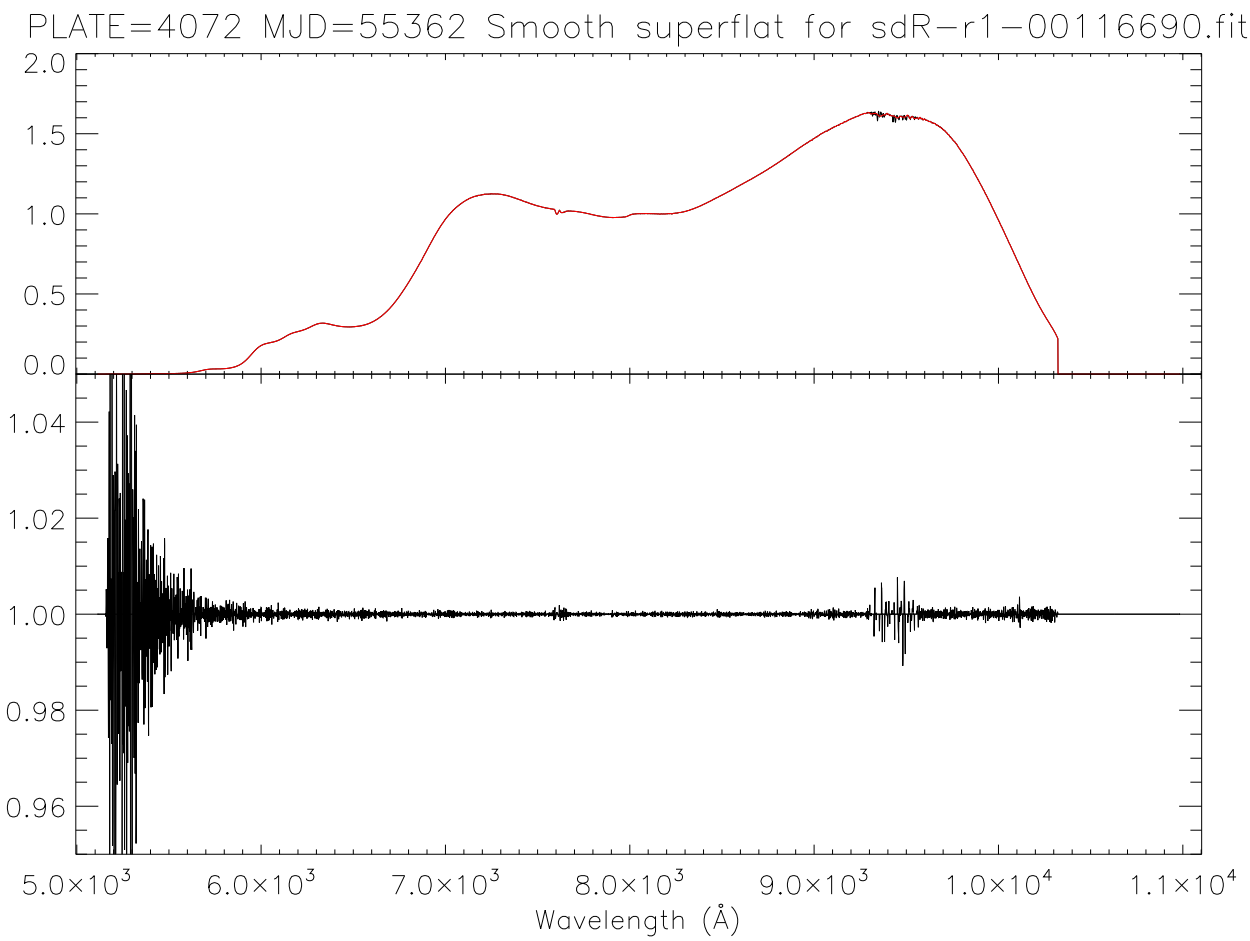

PLATE=4072 MJD=55362 Superflat sdR-r1-00116695.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
0.0
0.5
1.0
1.5
6000
7000
8000
9000
10000
λ [A]

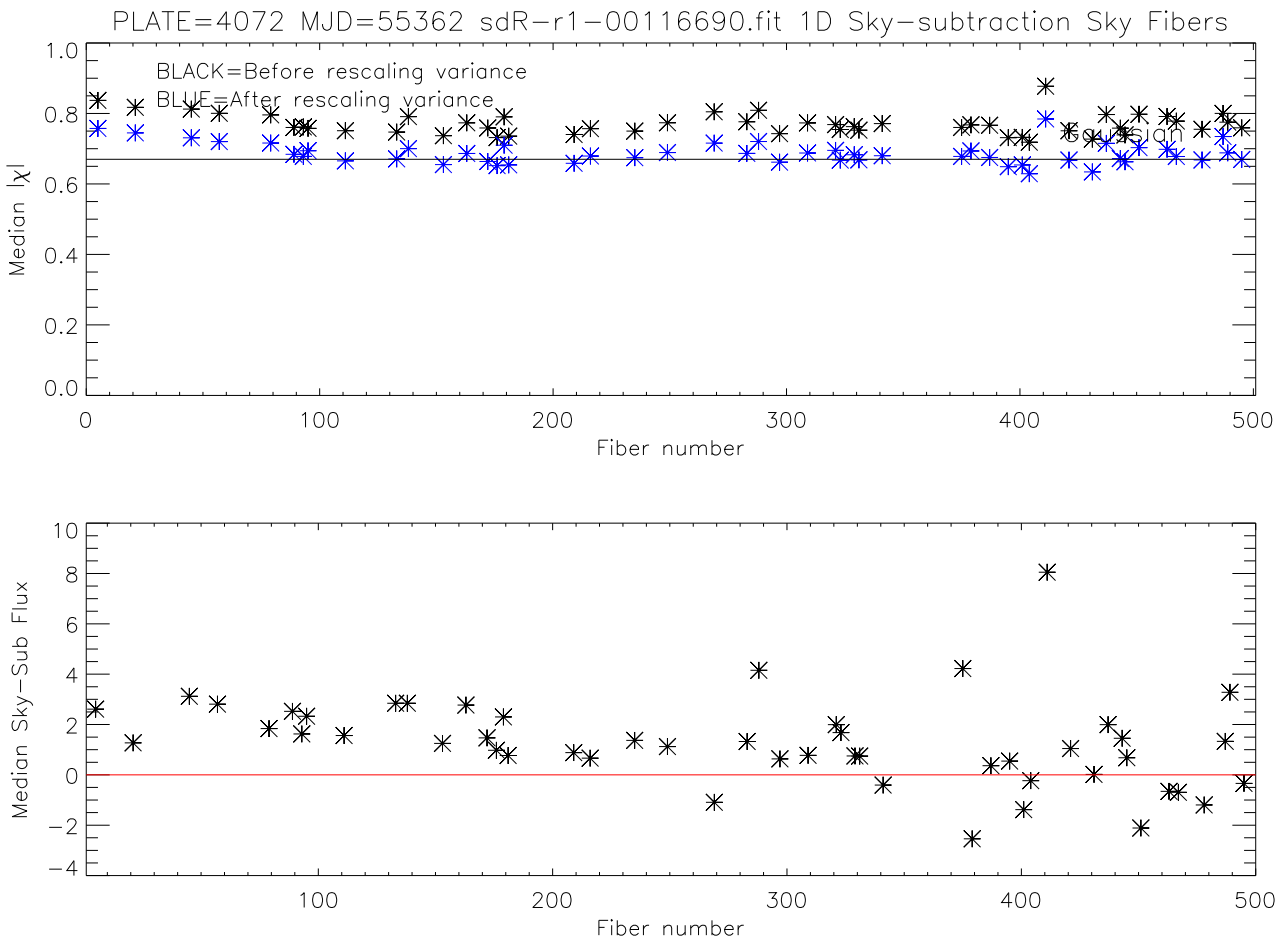

PLATE=4072 MJD=55362 Arcline Fit for sdR-r1-00116696.fit
Fiber Number
500
400
300
200
100
0
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A] + 300 * Deviation
Ncoeff = 6
Deviation [pix]
0.15
0.10
0.05
−0.00
−0.05
−0.10
−0.15
λ [A]
Sat Apr 12 10:46:25 2014

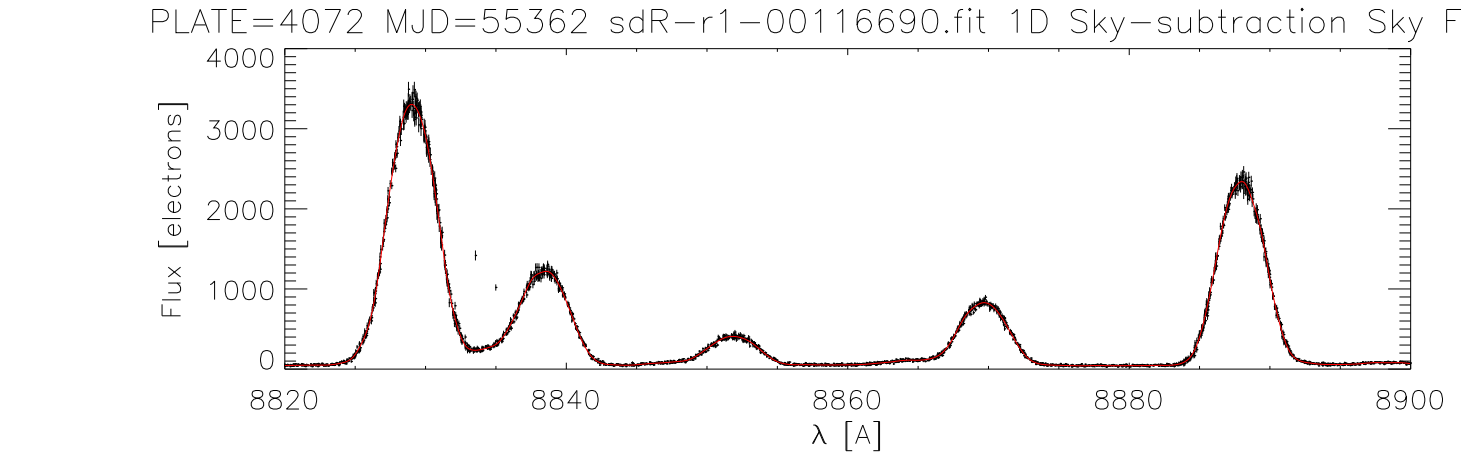

PLATE=4072 MJD=55362 Fiber−Flats for sdR−r1−00116695.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −9.698
Max value = 22.465
Fiber−Flat
1.5
1.0
0.5
0.0
6000
7000
8000
9000
10000
λ [A]
Sat Apr 12 10:46:49 2014

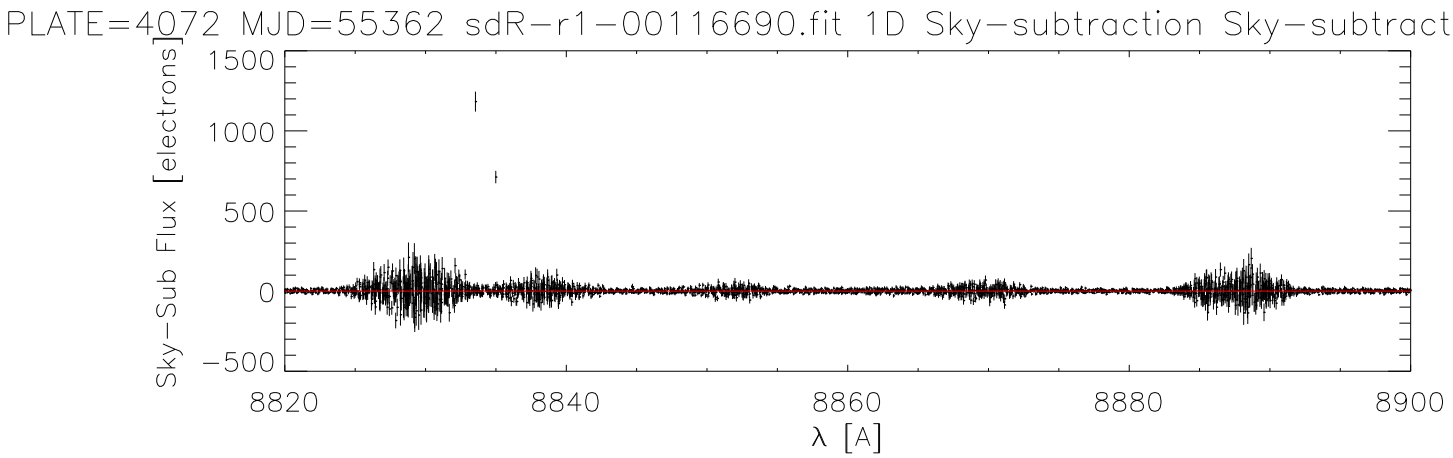

PLATE=4072 MJD=55362 Extraction chi$^2$ for sdR−r1−00116690.fit
BLACK = Final chisq extraction
$\chi^2$
2.0
1.5
1.0
0.5
0.0
0
1000
2000
3000
4000
Row number


PLATE=4072 MJD=55362 Sky Line Deviations for sdR-r1-00116690.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

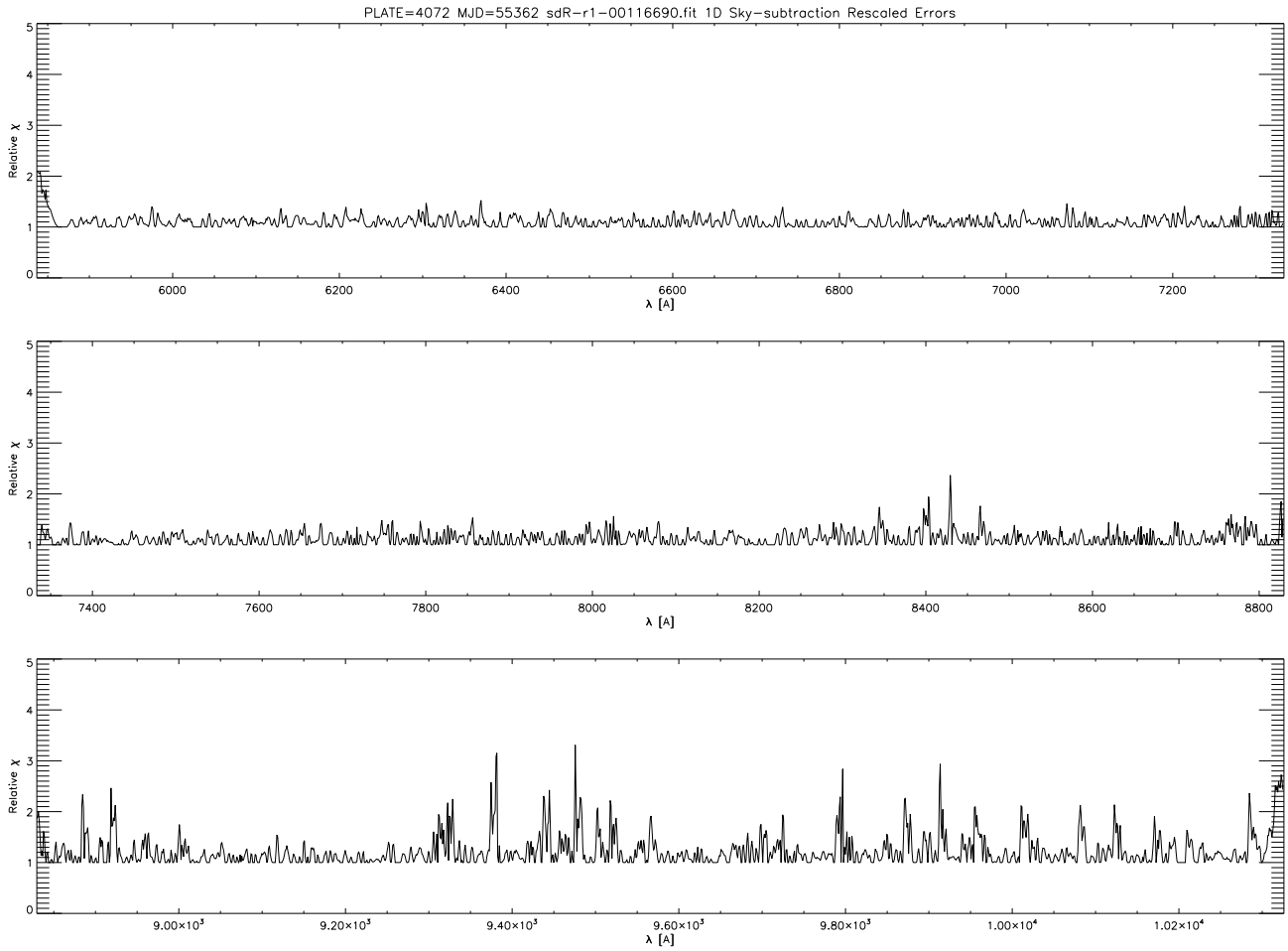

PLATE=4072 MJD=55362 Smooth superflat for sdR-r1-00116690.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

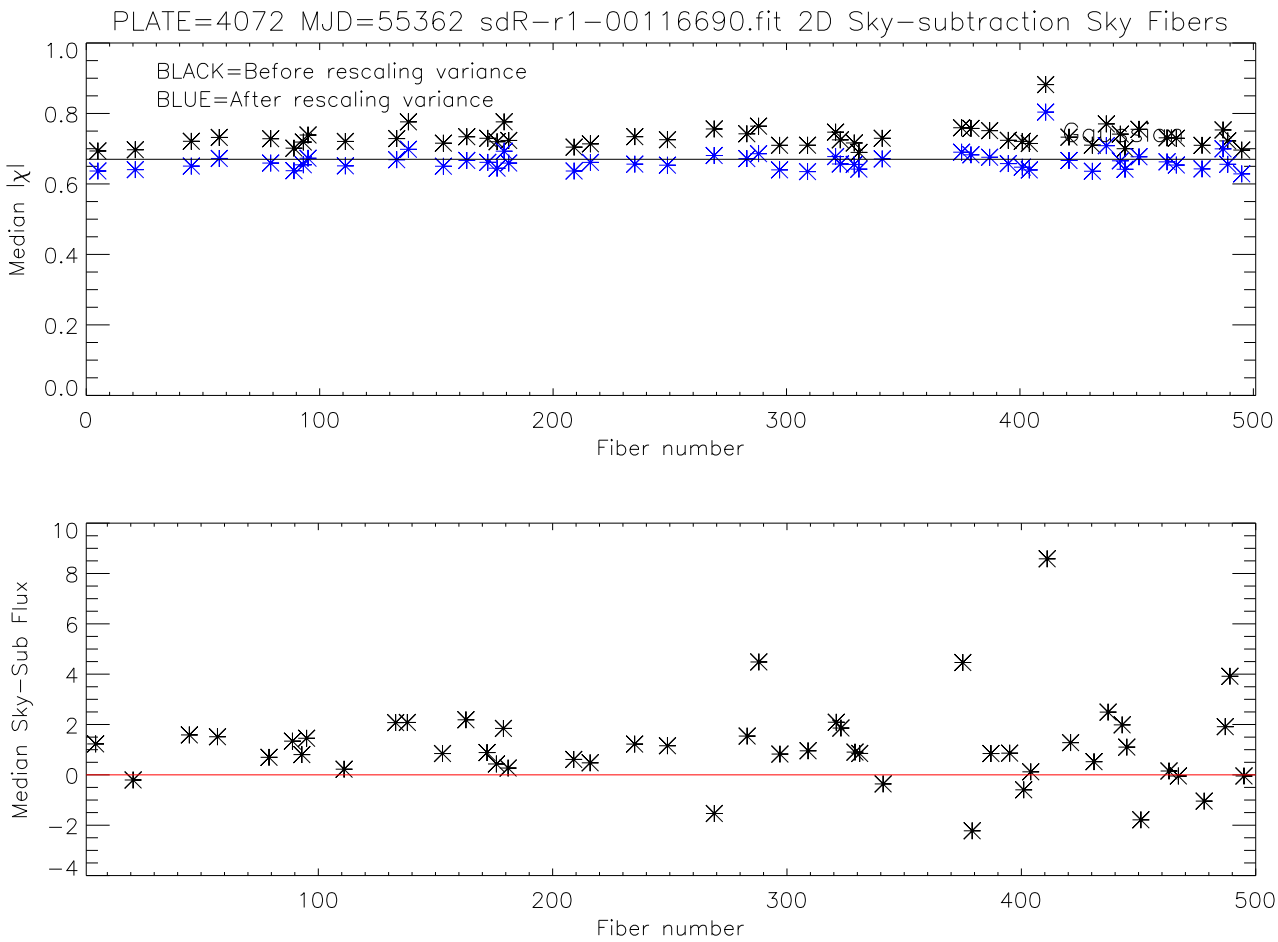

PLATE=4072 MJD=55362 sdR-r1-00116690.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

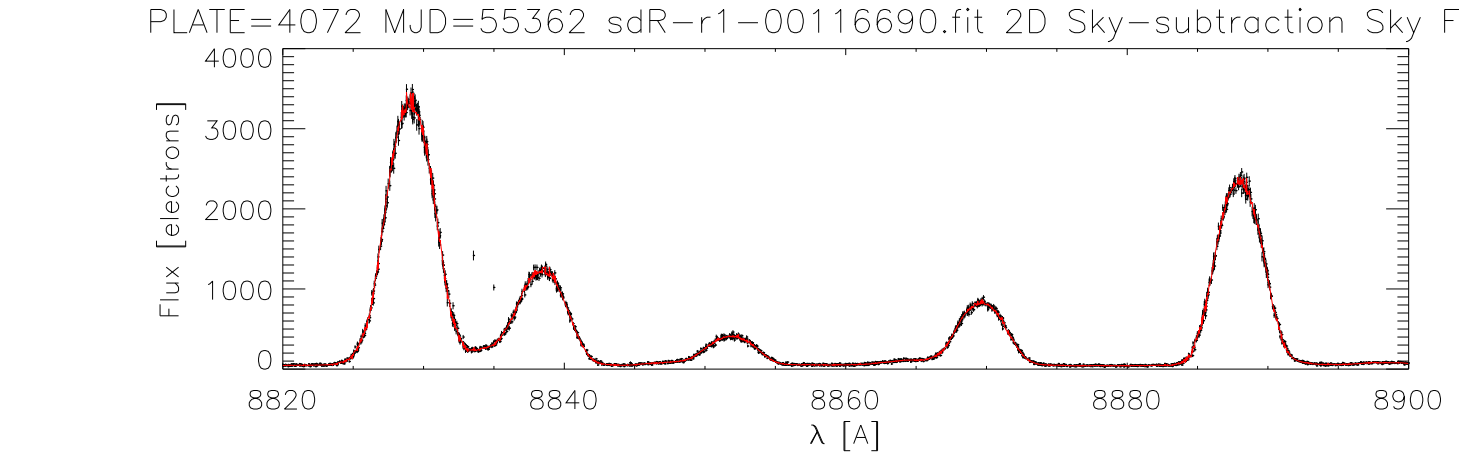

PLATE=4072 MJD=55362 sdR-r1-00116690.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

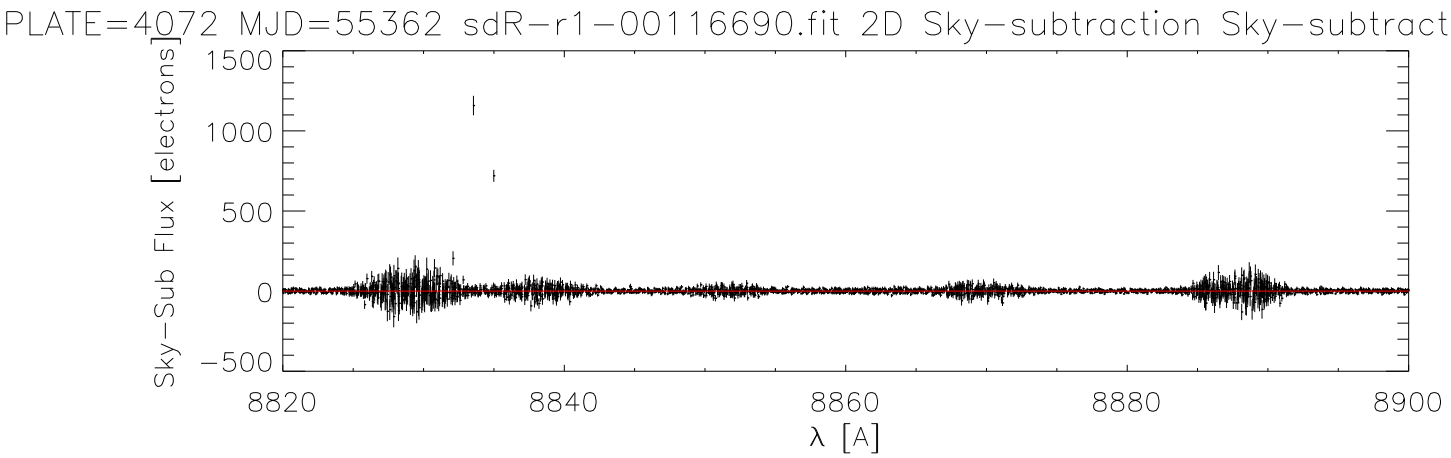

PLATE=4072 MJD=55362 sdR-r1-00116690.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 50

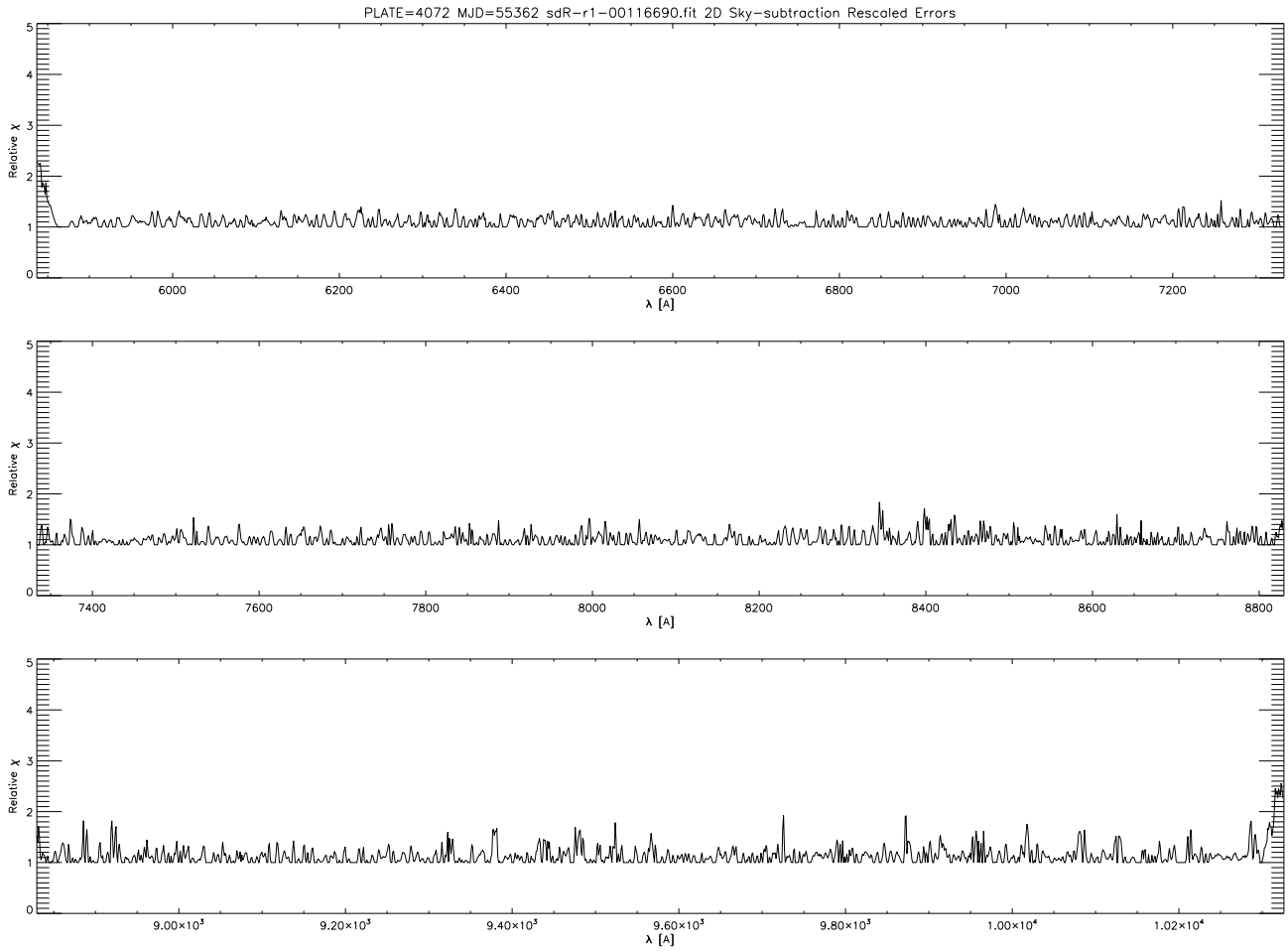


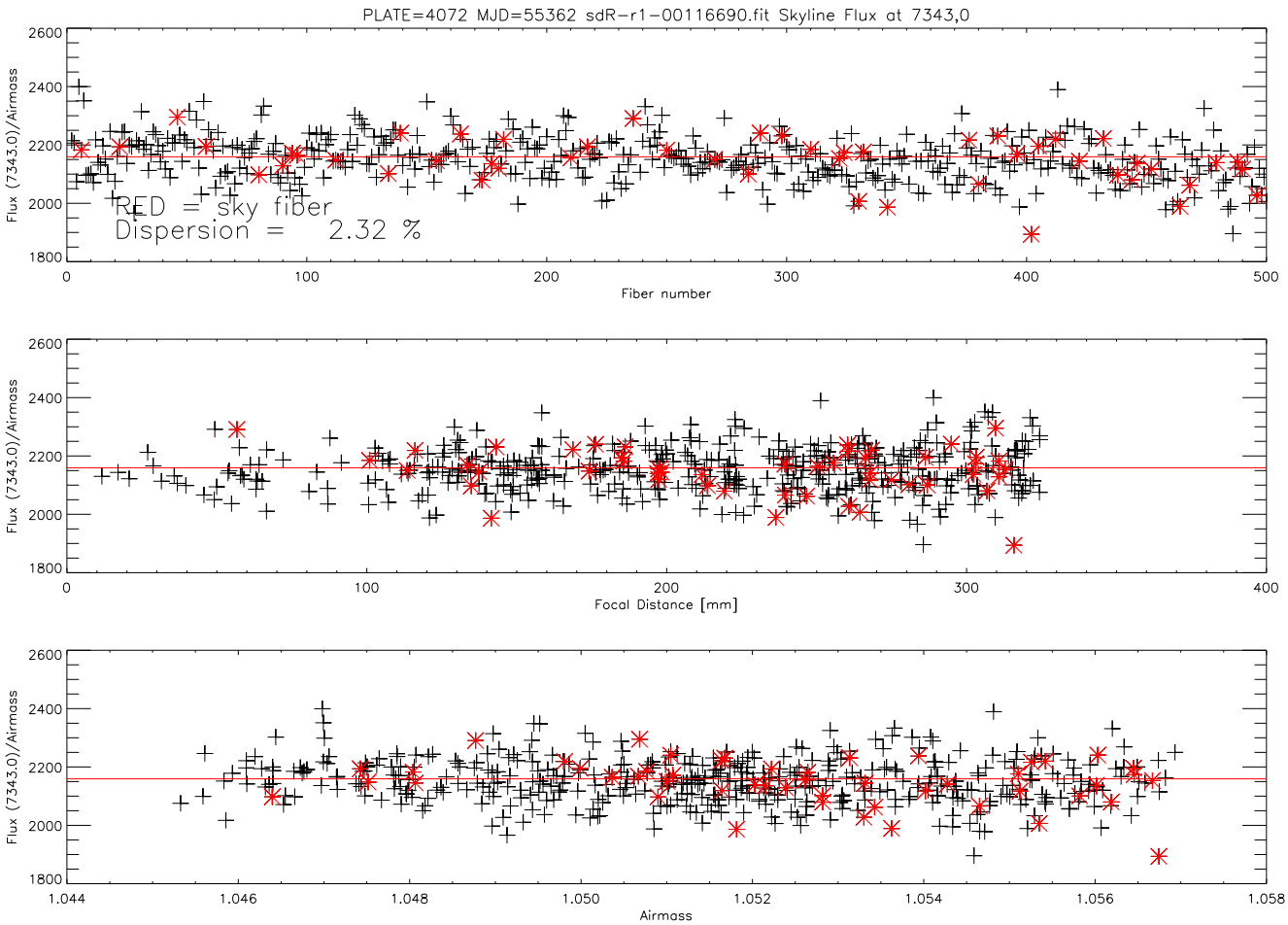

PLATE=4072 MJD=55362 sdR-r1-00116690.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

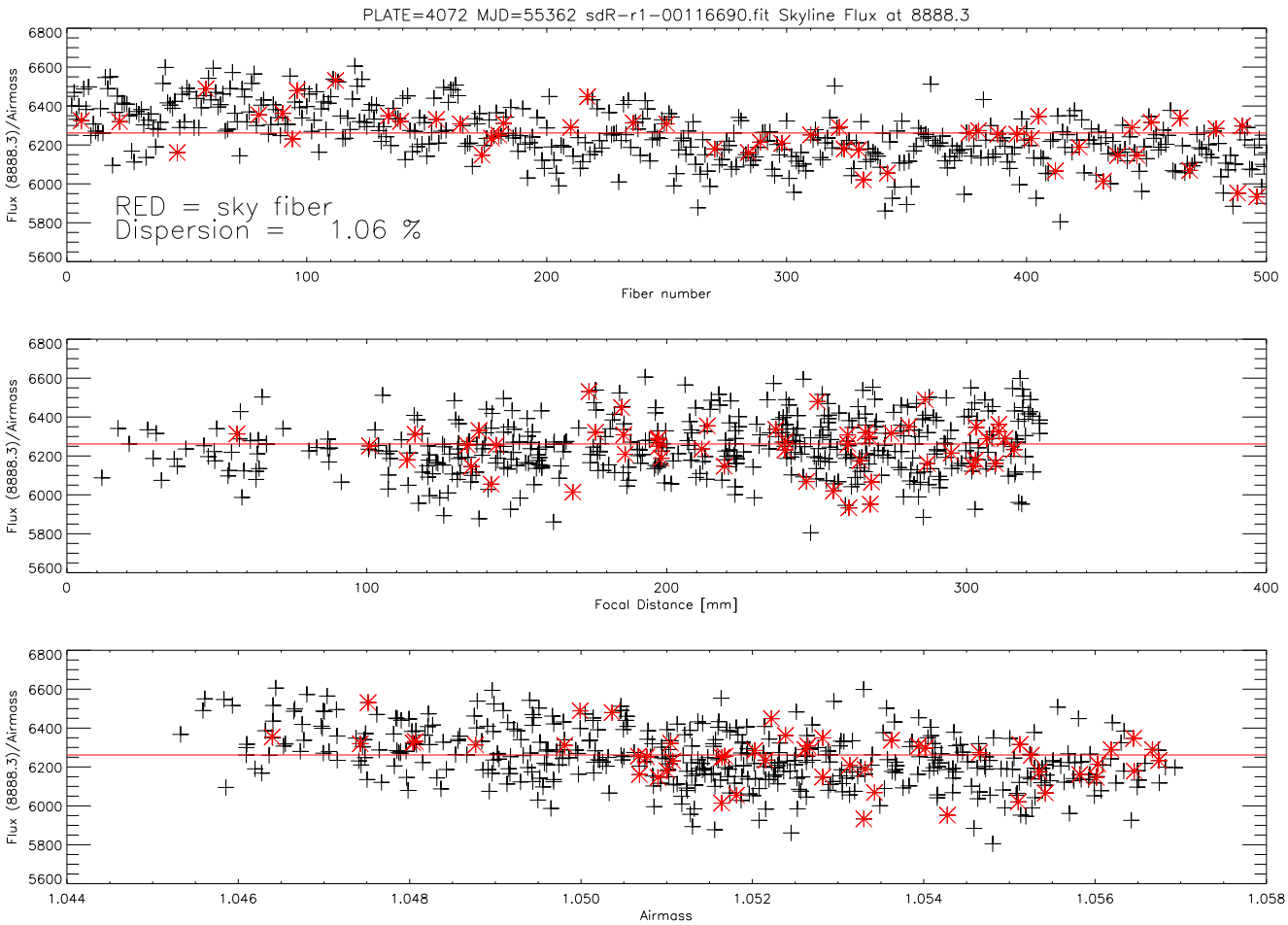

PLATE=4072 MJD=55362 sdR-r1-00116690.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

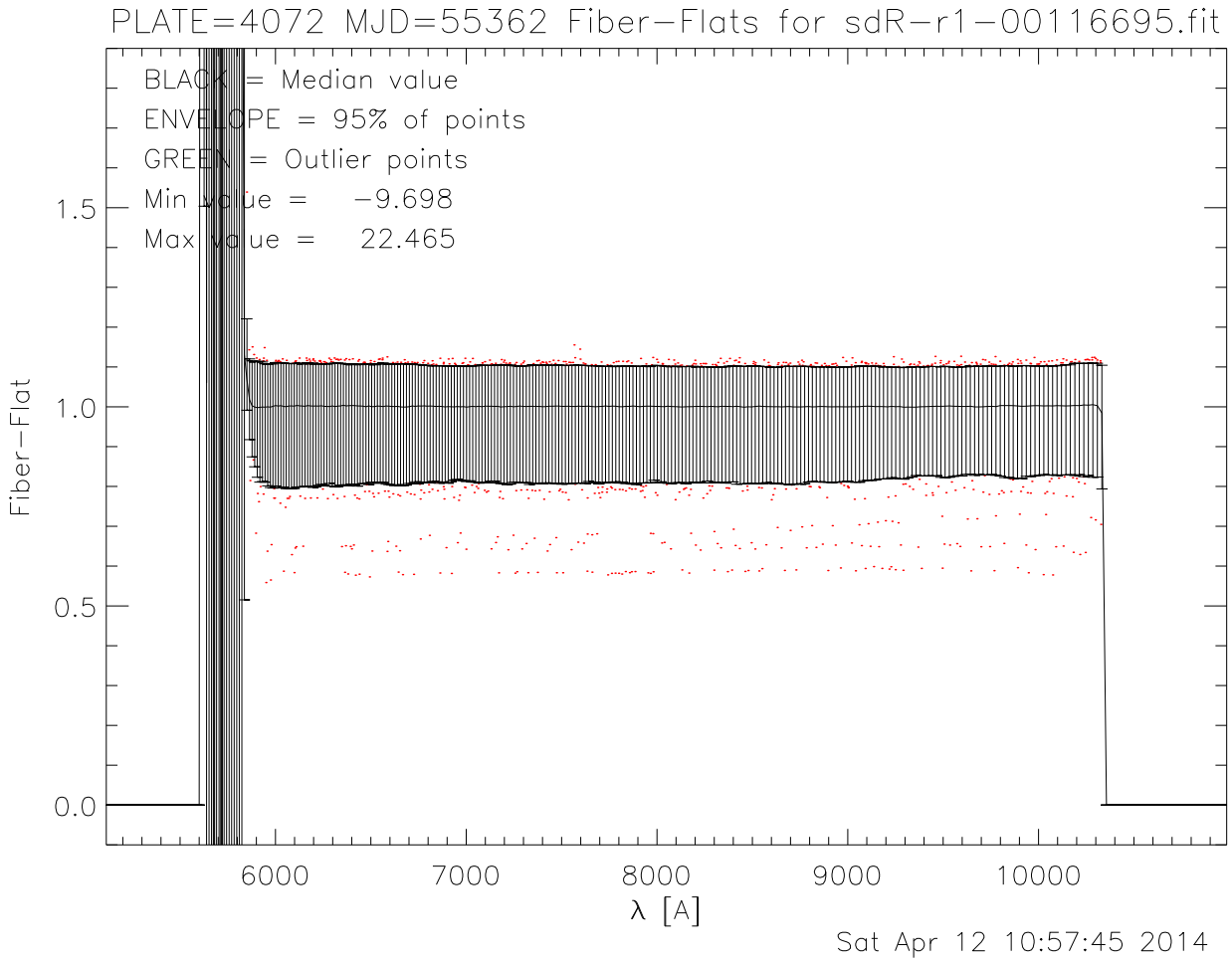

PLATE=4072 MJD=55362 sdR-r1-00116690.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

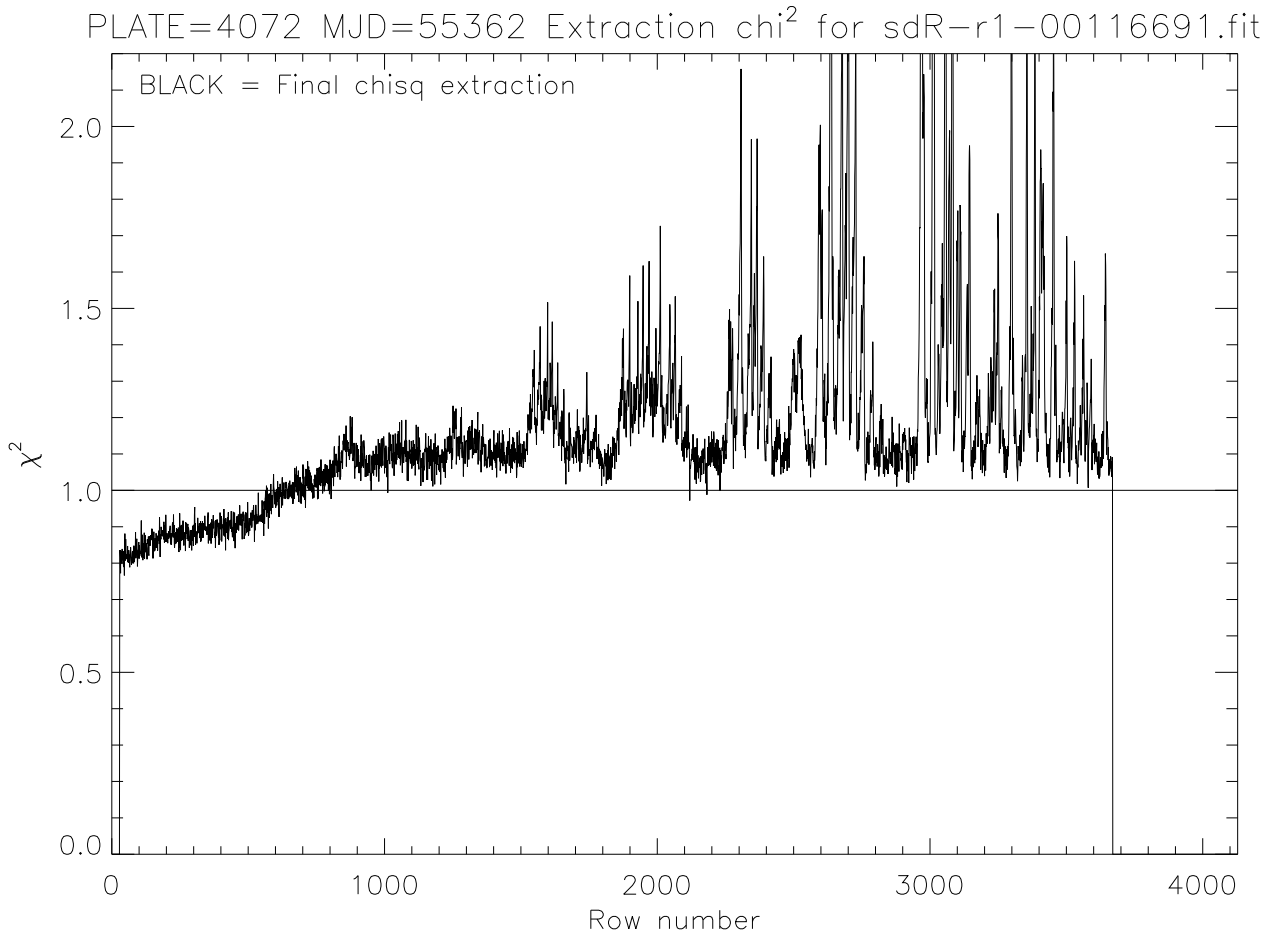
Number of sky fibers = 50

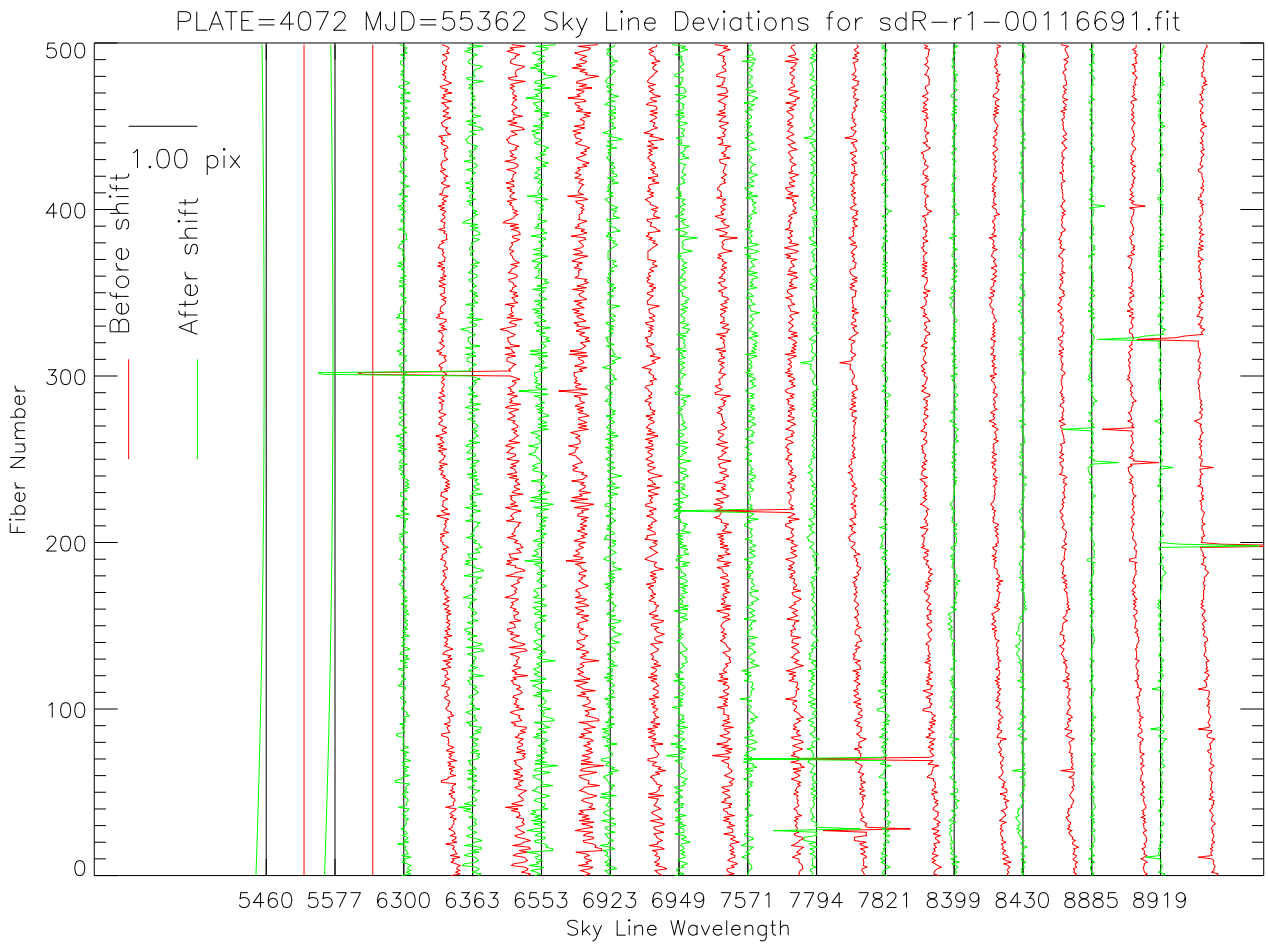


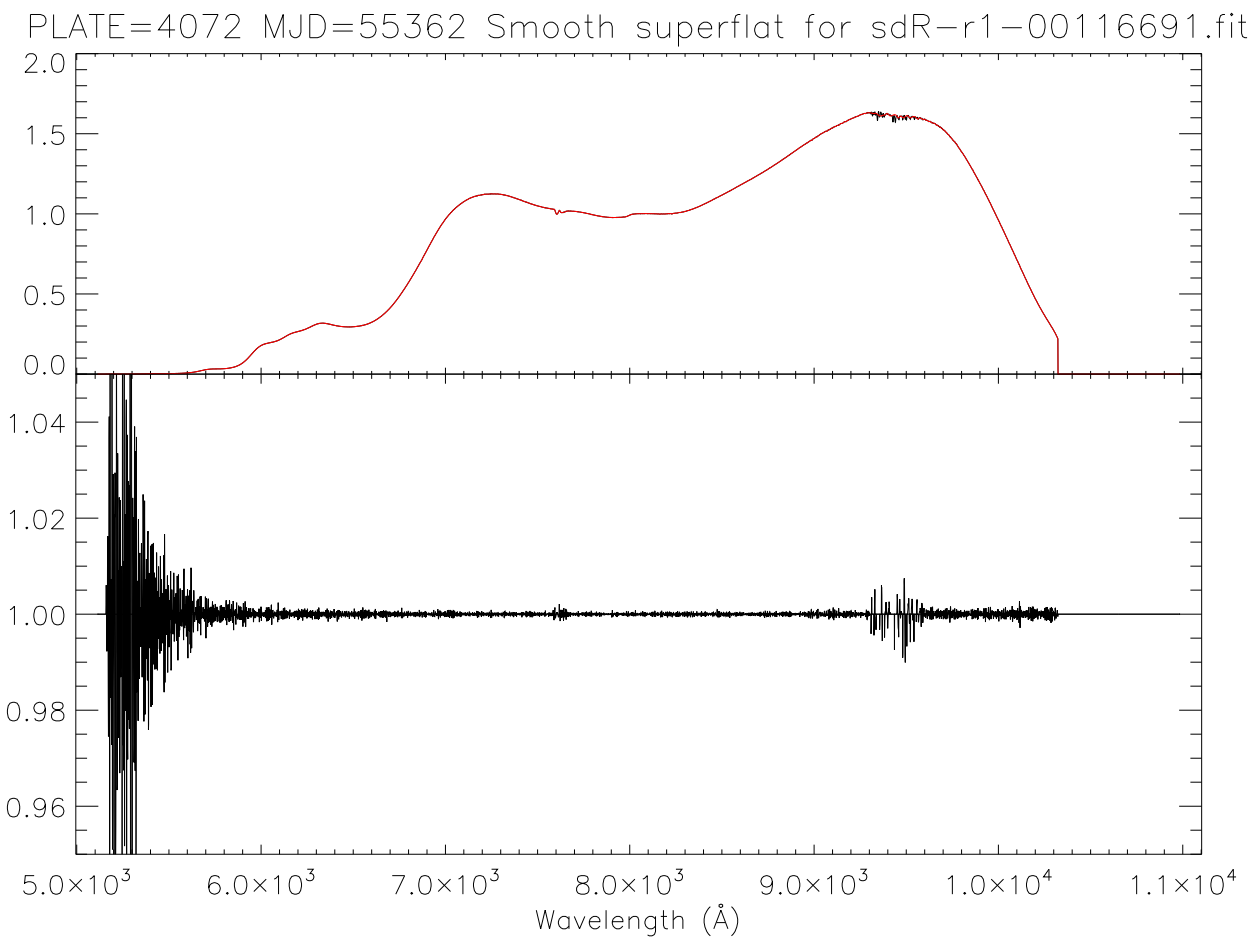

PLATE=4072 MJD=55362 sdR-r1-00116690.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.32 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

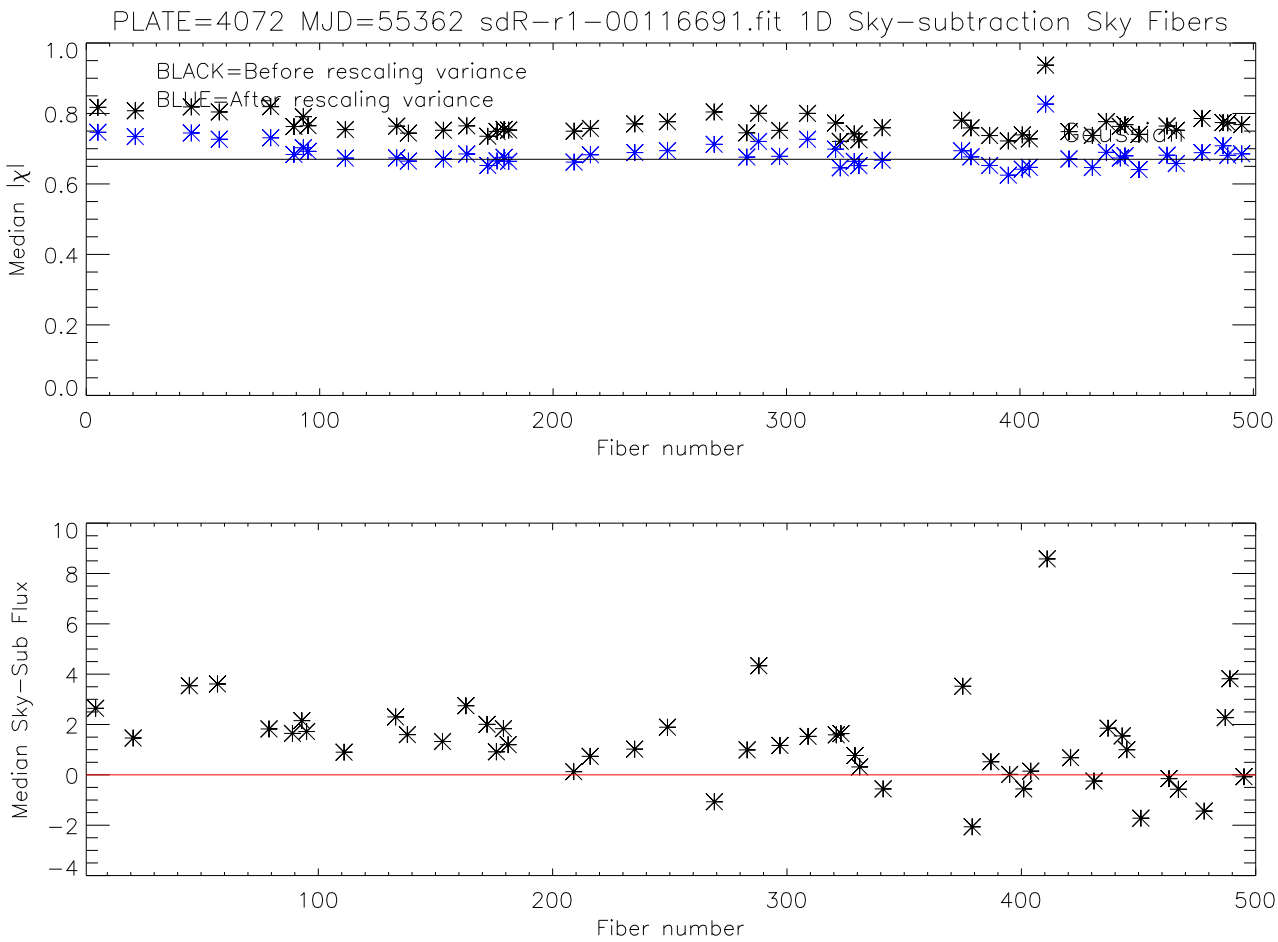

PLATE=4072 MJD=55362 sdR-r1-00116690.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.06 %
Fiber number
Focal Distance [mm]
Airmass

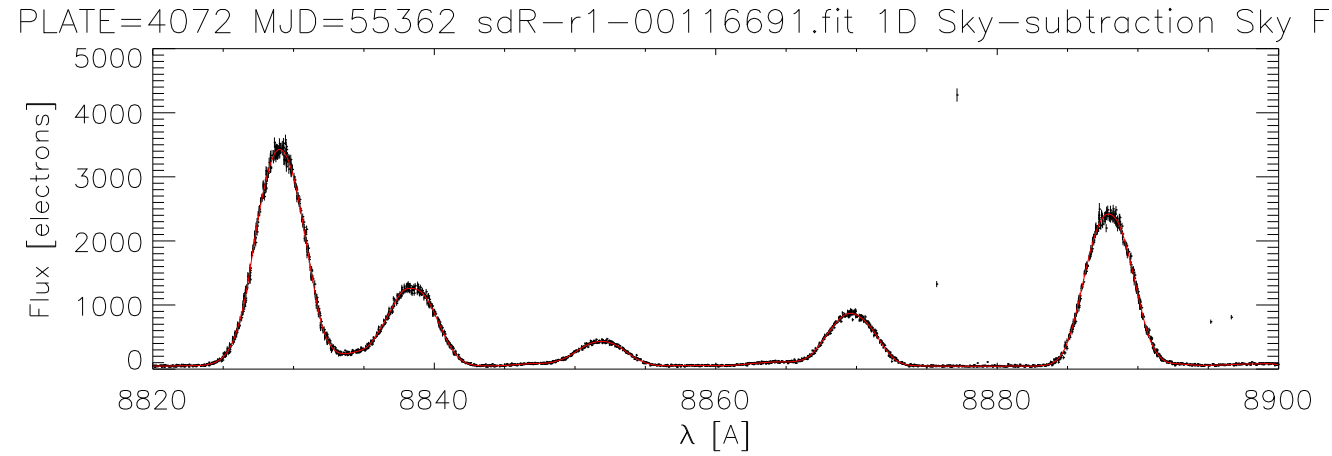

PLATE=4072 MJD=55362 Fiber−Flats for sdR−r1−00116695.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −9.698
Max value = 22.465
Fiber−Flat
1.5
1.0
0.5
0.0
6000
7000
8000
9000
10000
λ [A]
Sat Apr 12 10:57:45 2014

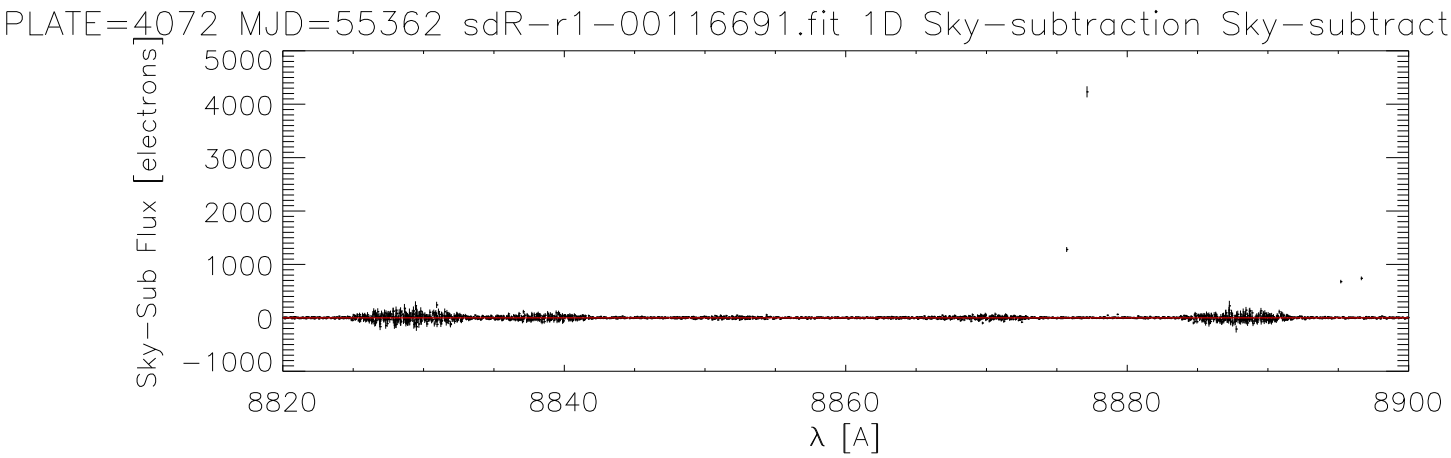

PLATE=4072 MJD=55362 Extraction chi$^2$ for sdR−r1−00116691.fit
BLACK = Final chisq extraction
$\chi^2$
2.0
1.5
1.0
0.5
0.0
0
1000
2000
3000
4000
Row number


PLATE=4072 MJD=55362 Sky Line Deviations for sdR-r1-00116691.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

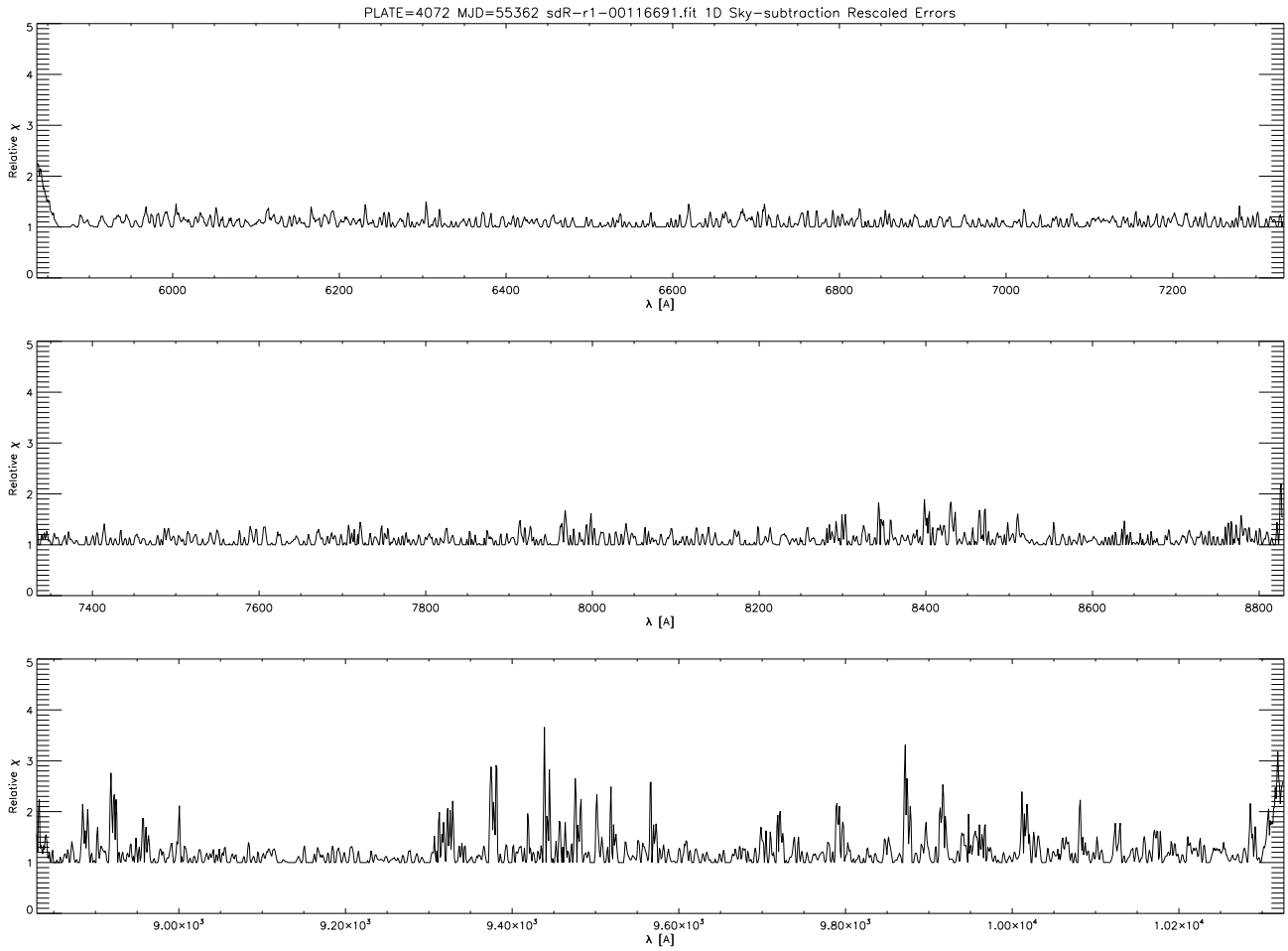

PLATE=4072 MJD=55362 Smooth superflat for sdR-r1-00116691.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

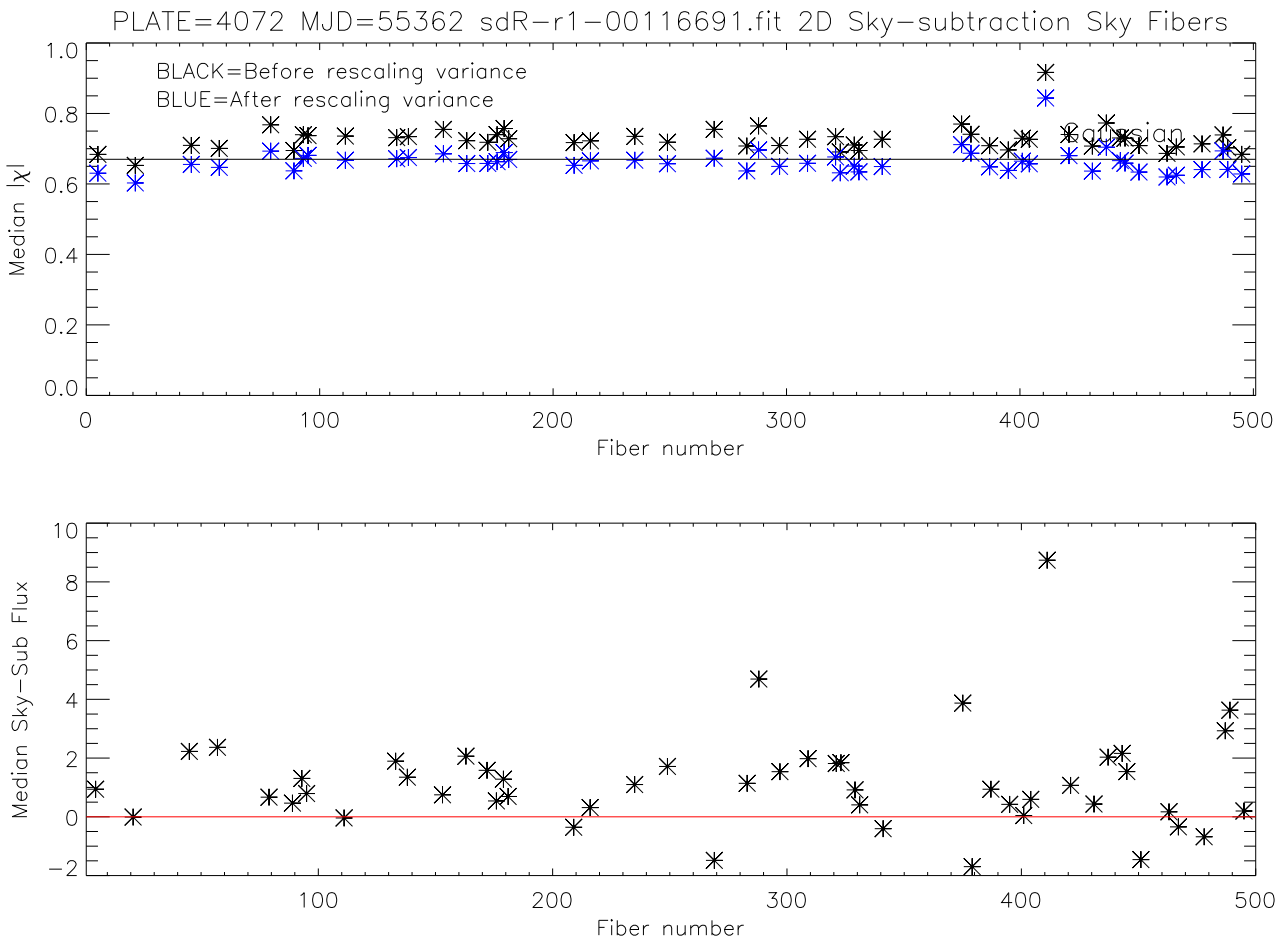

PLATE=4072 MJD=55362 sdR-r1-00116691.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

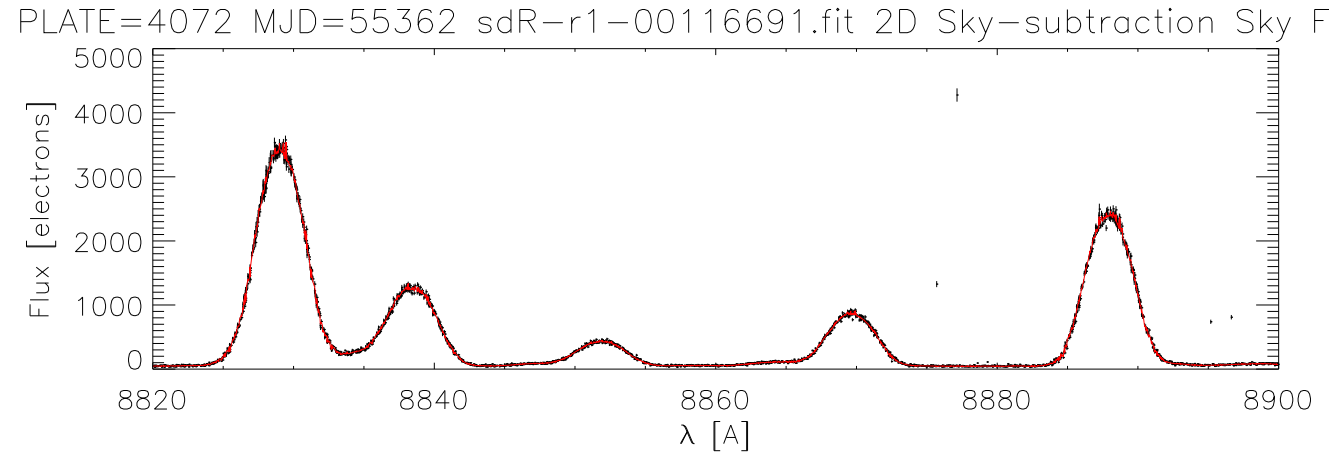

PLATE=4072 MJD=55362 sdR-r1-00116691.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

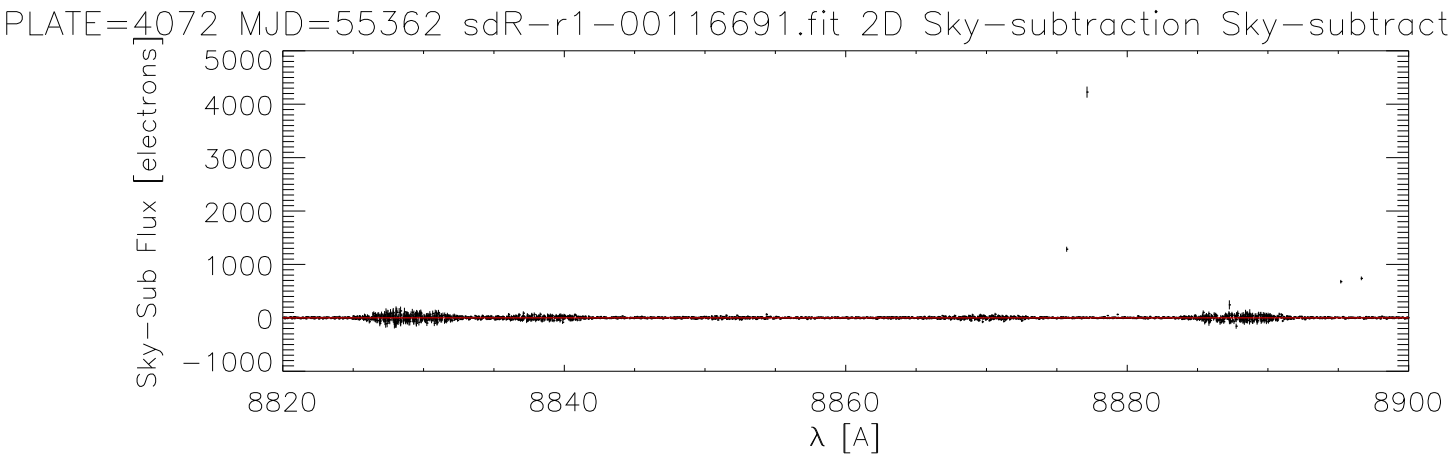

PLATE=4072 MJD=55362 sdR-r1-00116691.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
5000
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 50

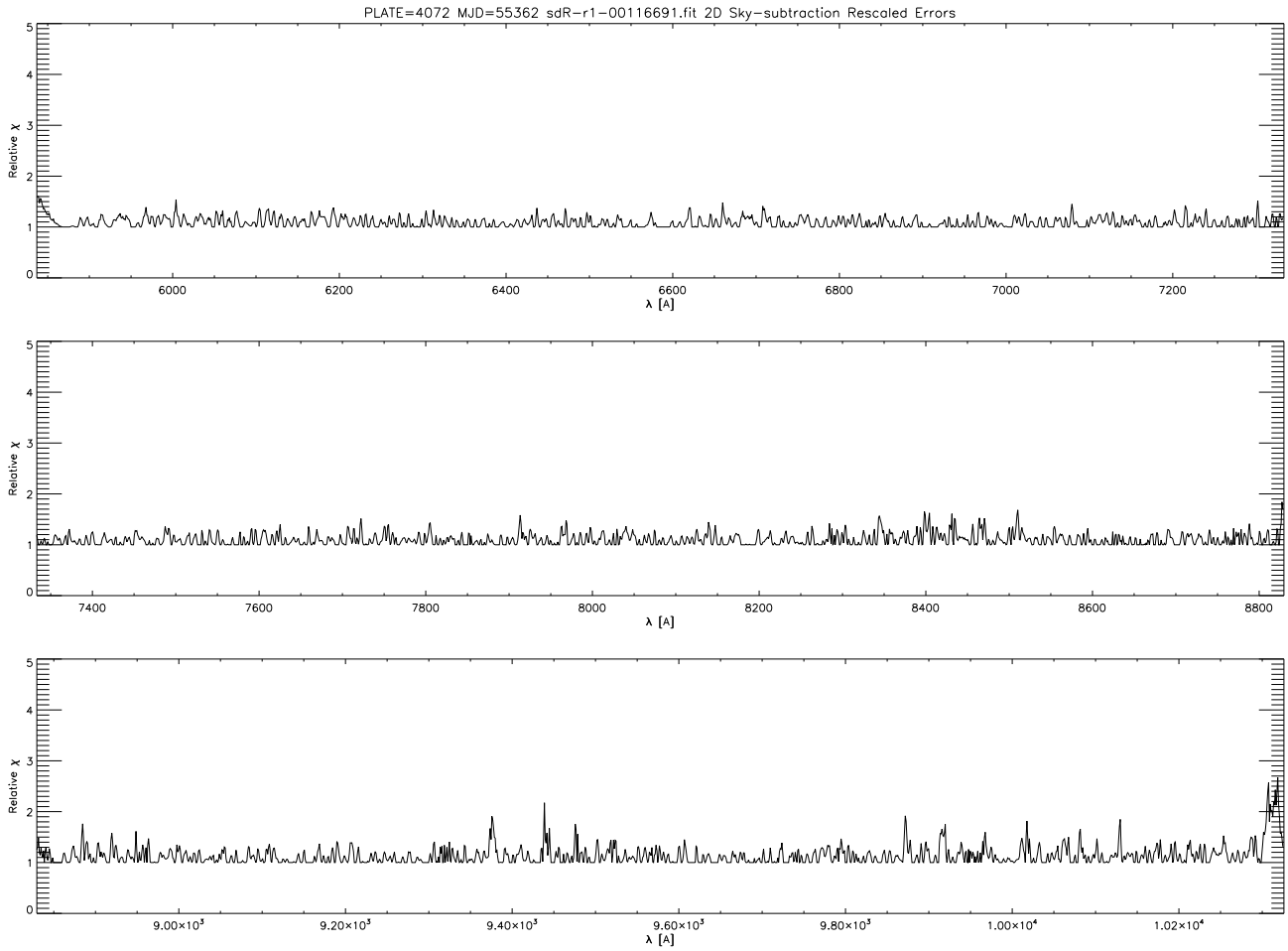


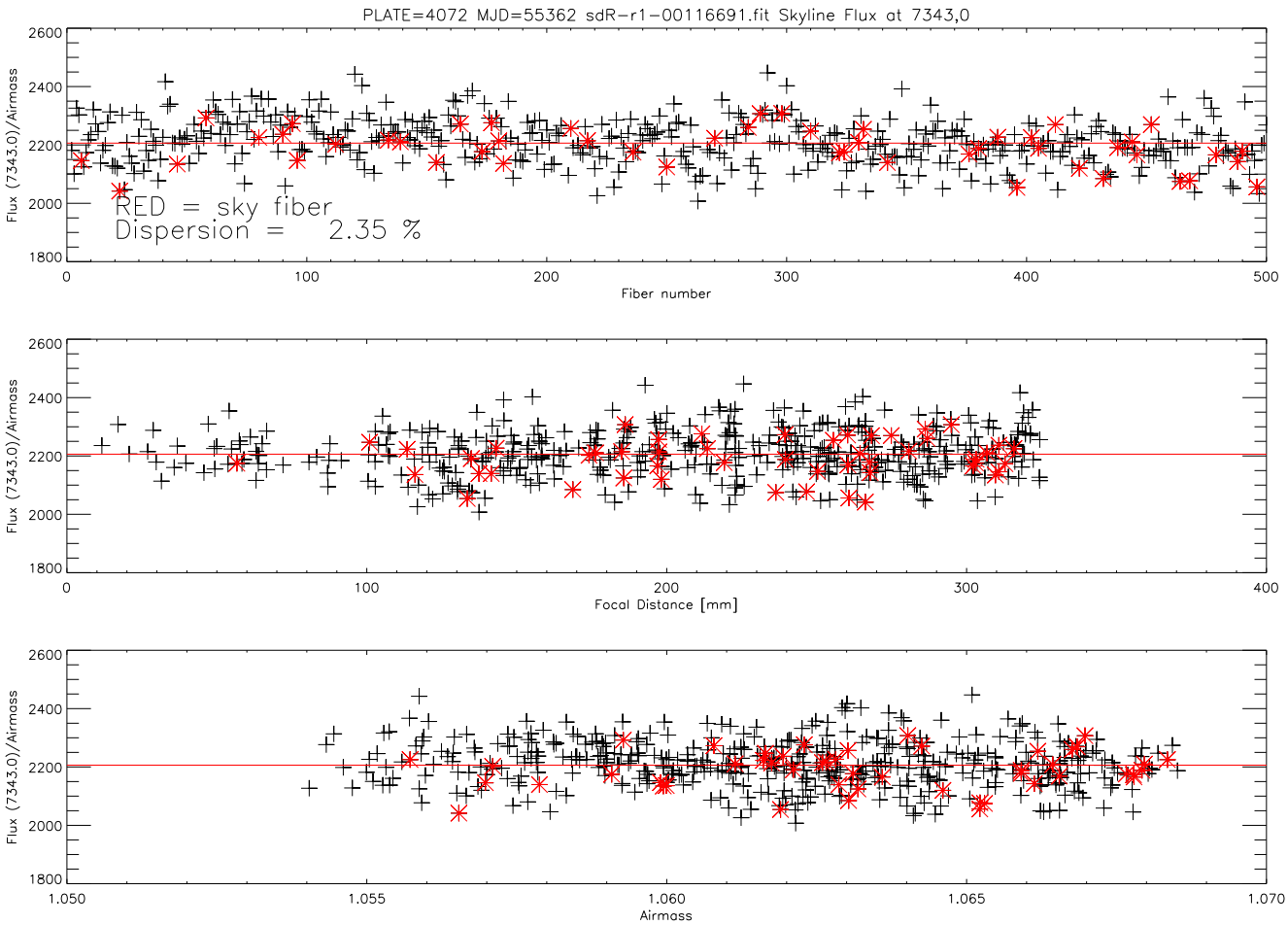

PLATE=4072 MJD=55362 sdR-r1-00116691.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

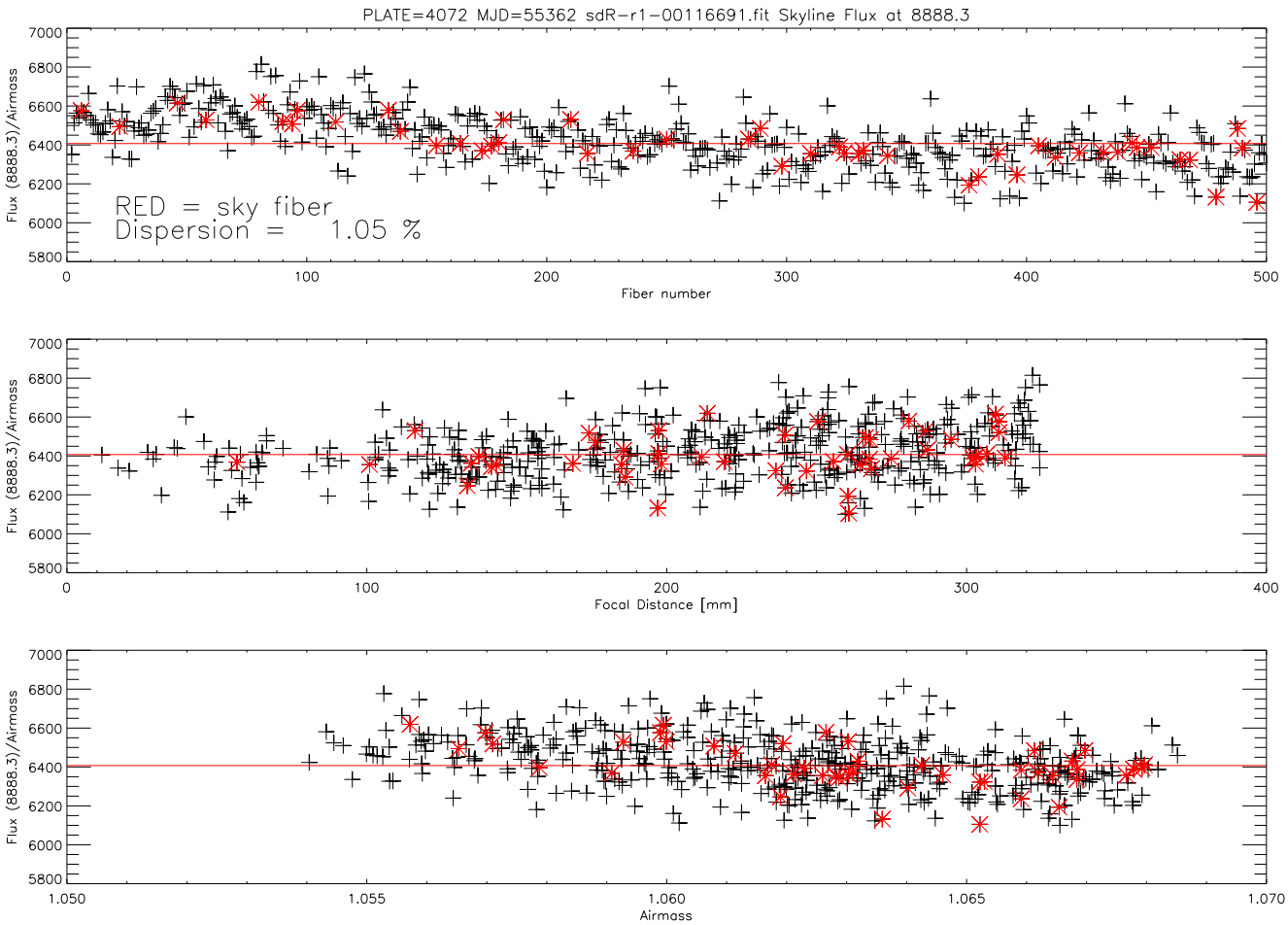

PLATE=4072 MJD=55362 sdR-r1-00116691.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

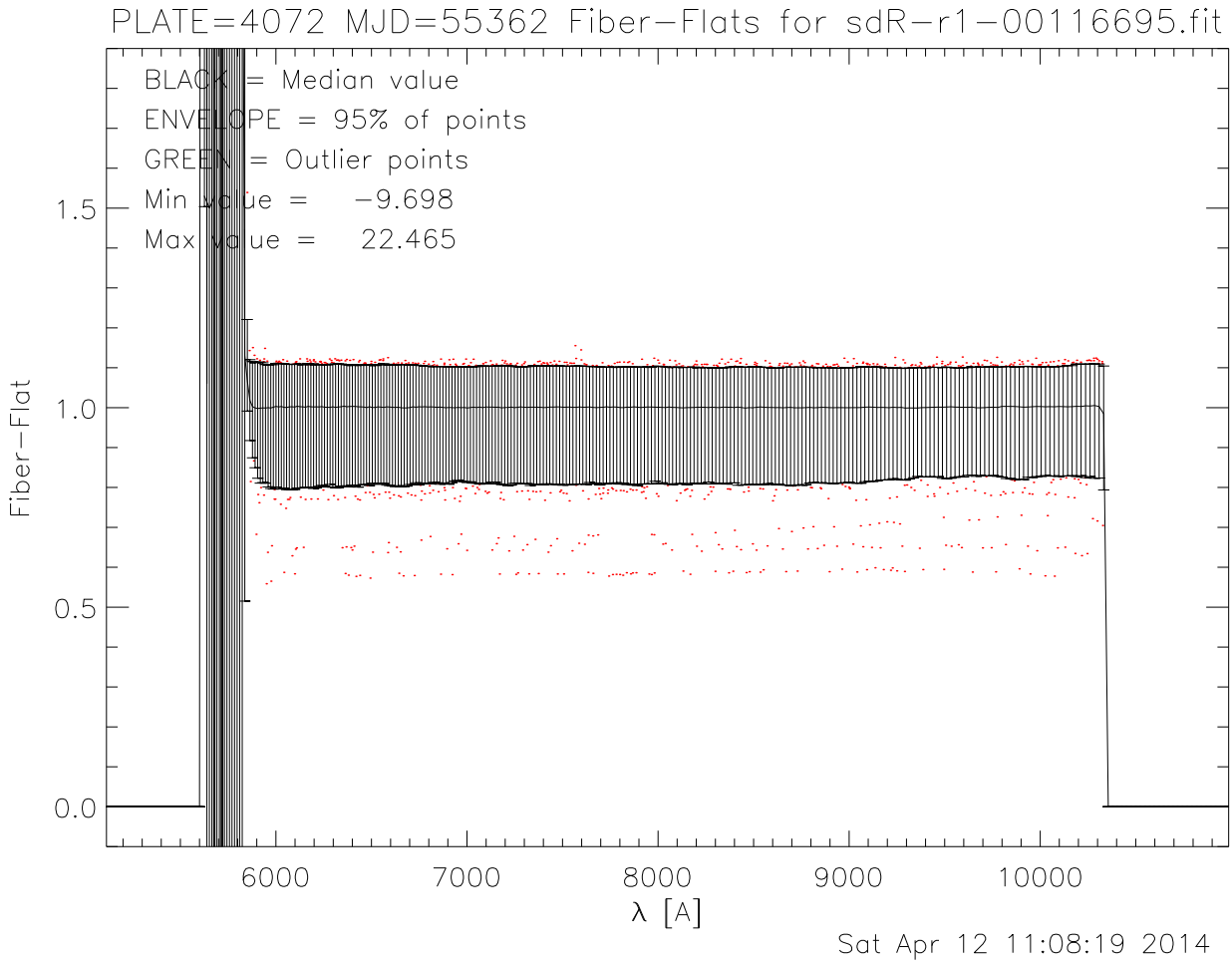

PLATE=4072 MJD=55362 sdR-r1-00116691.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
5000
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

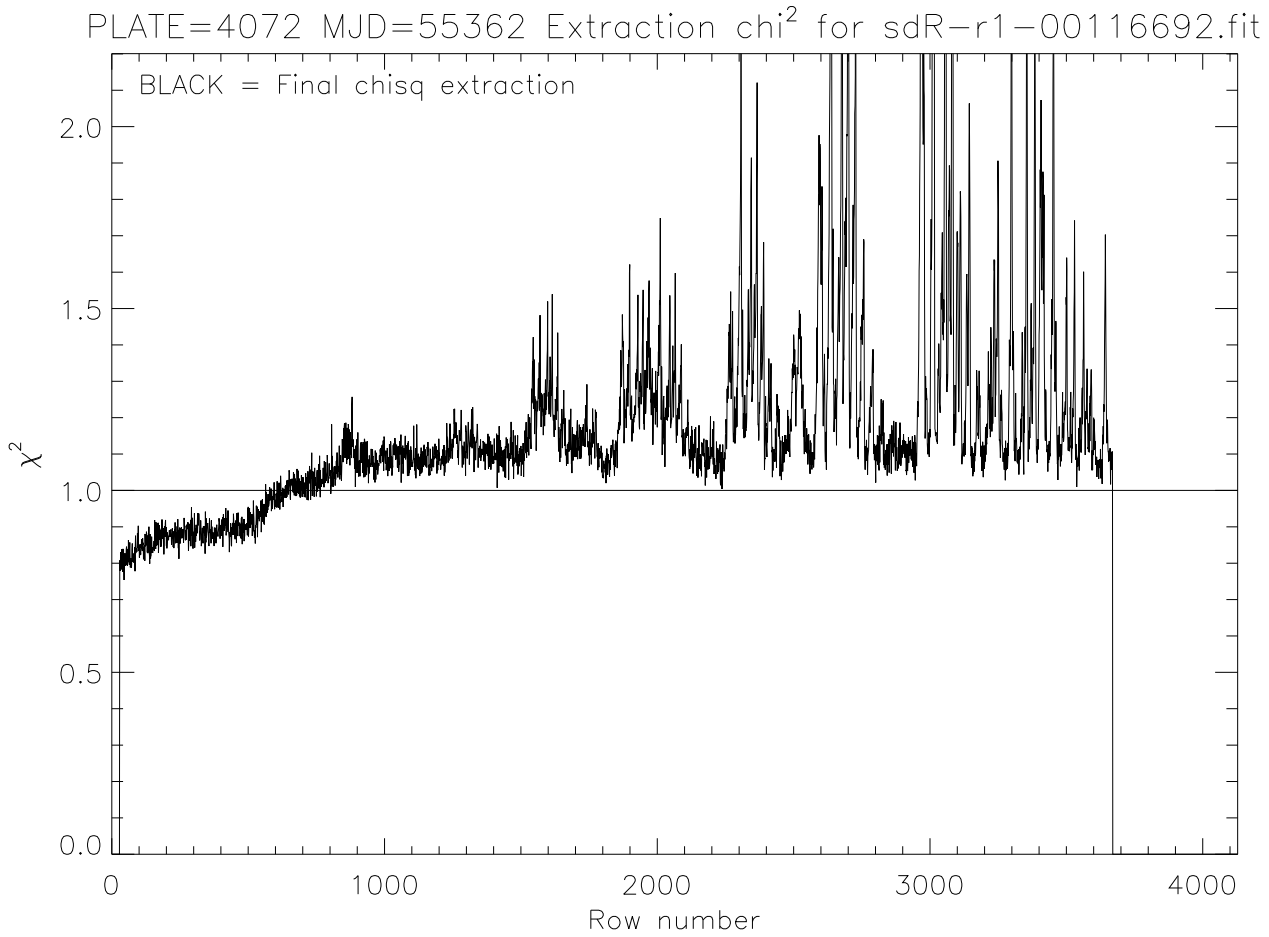
Number of sky fibers = 50

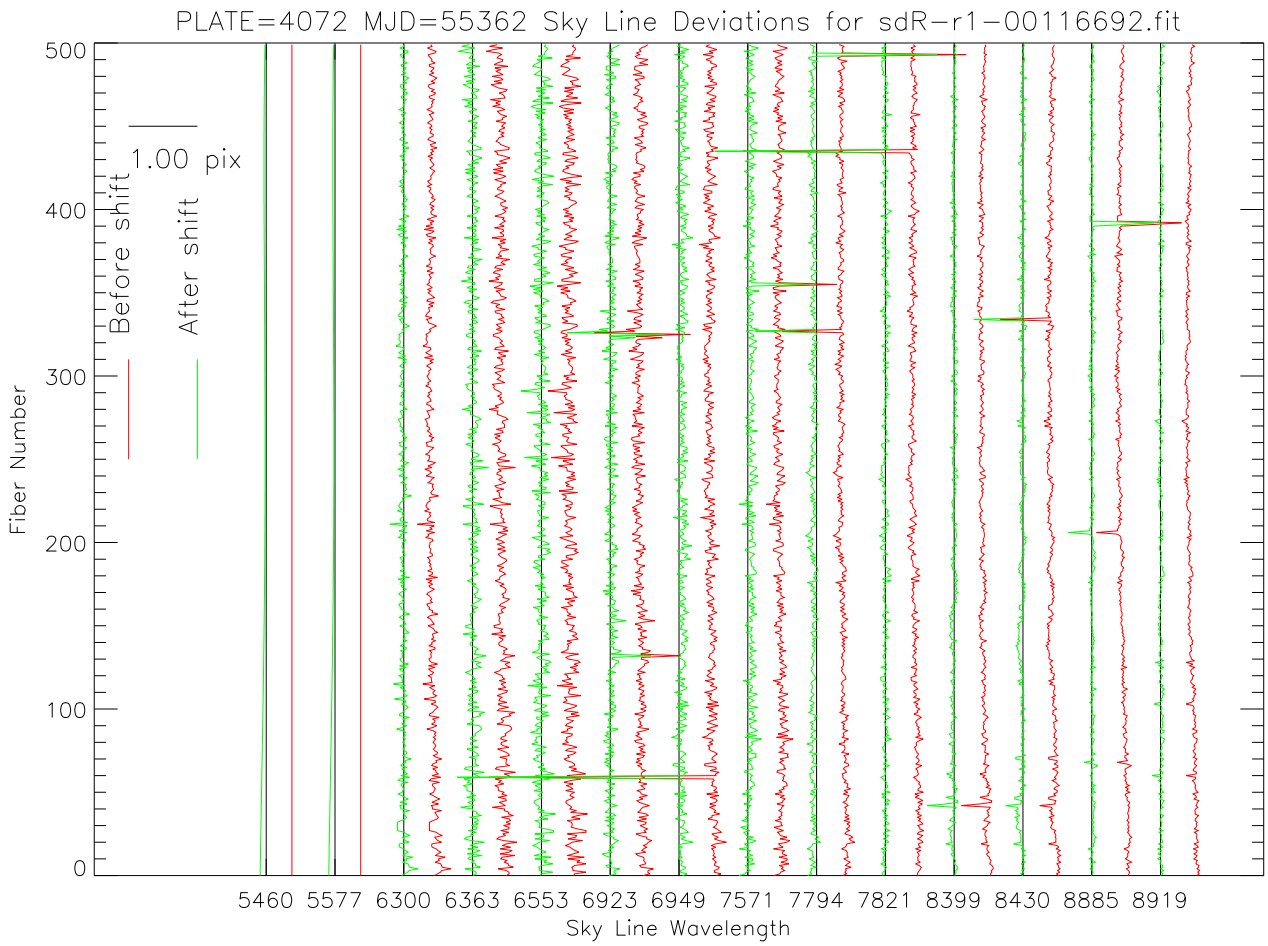


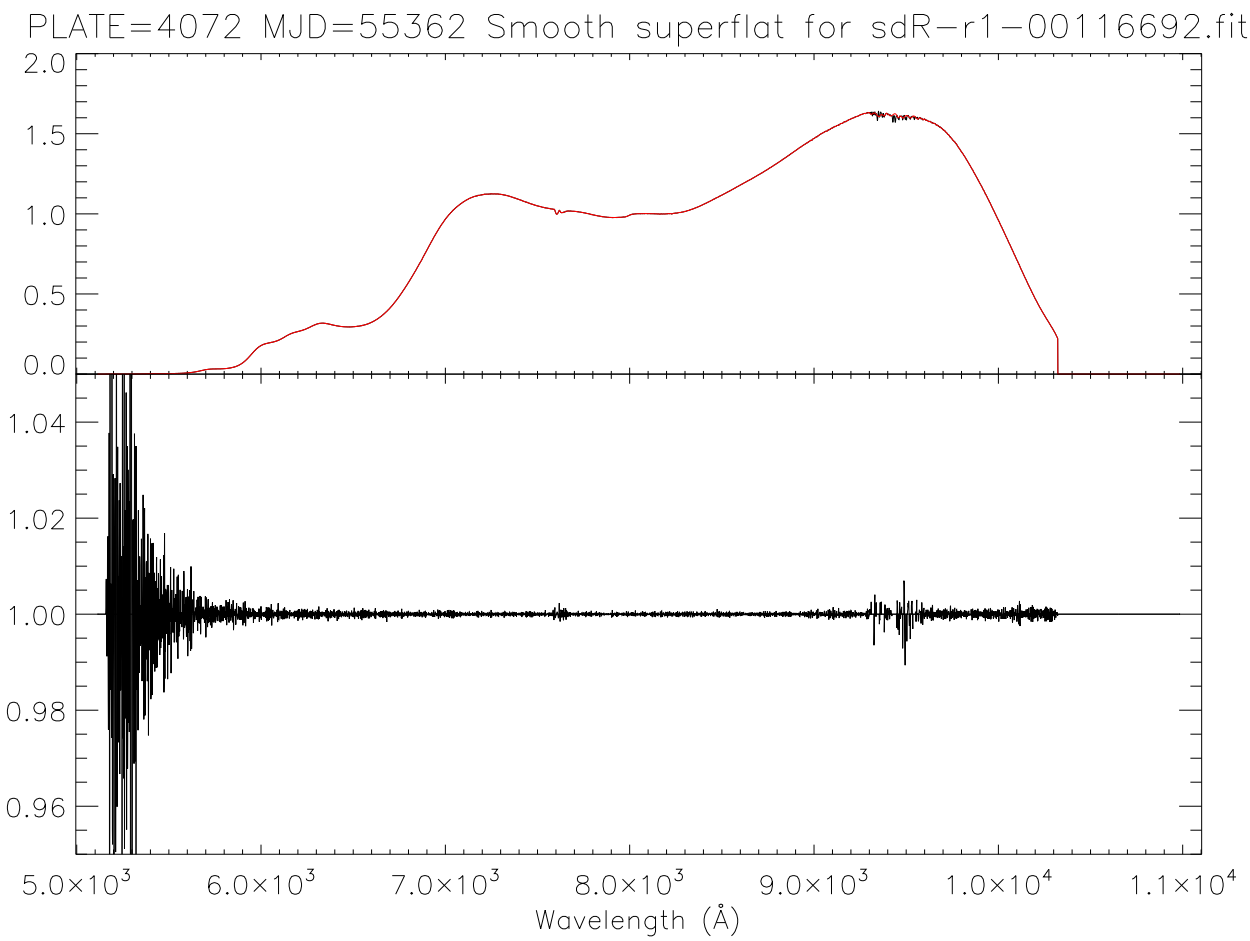

PLATE=4072 MJD=55362 sdR-r1-00116691.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.35 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

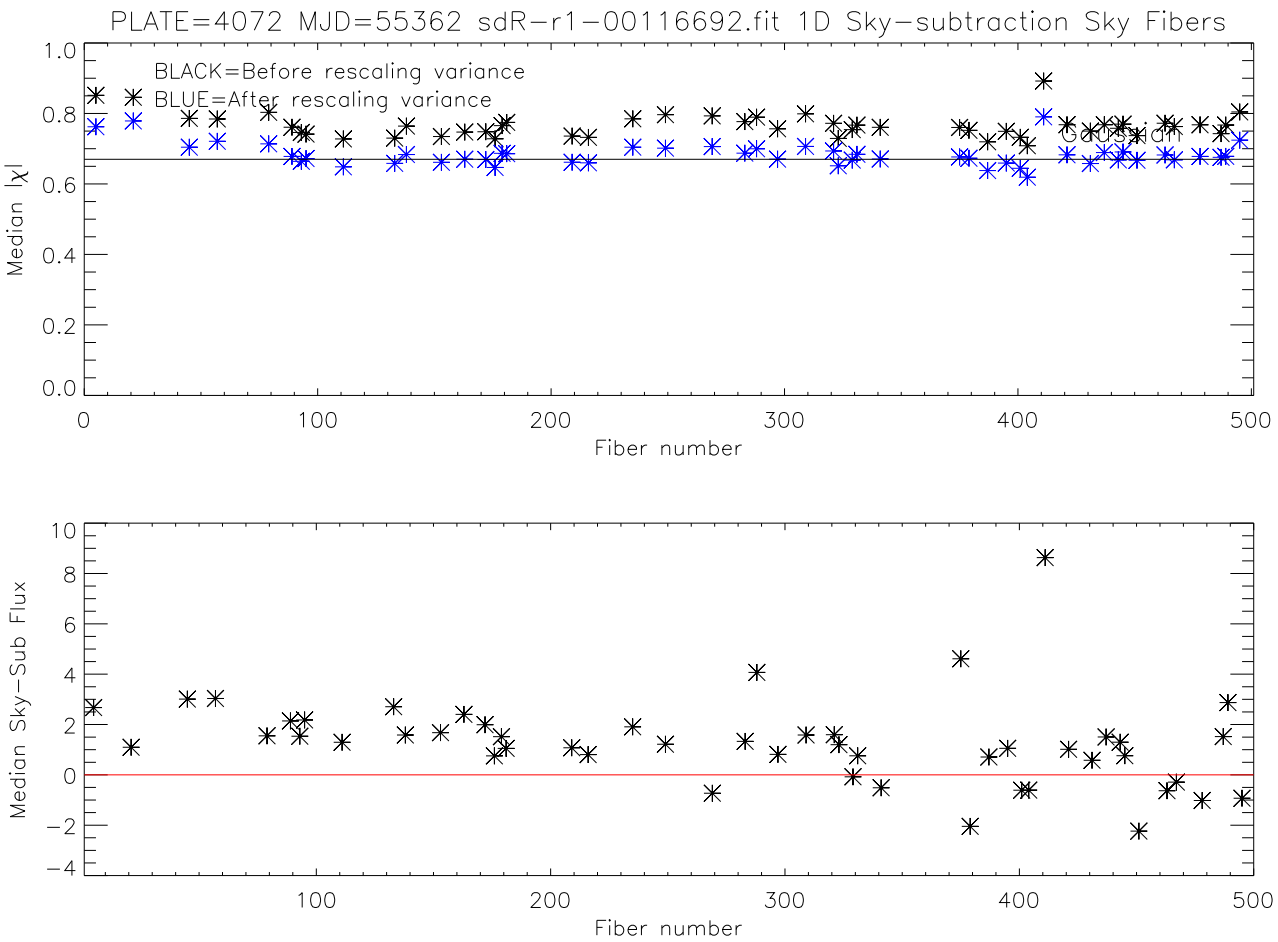

PLATE=4072 MJD=55362 sdR-r1-00116691.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.05 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

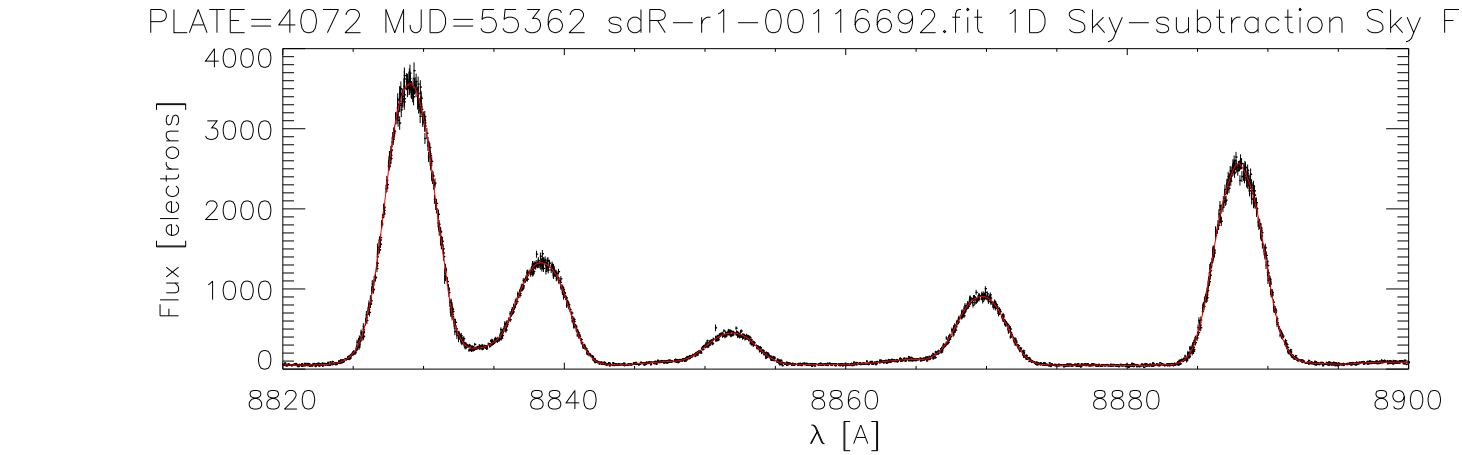

PLATE=4072 MJD=55362 Fiber−Flats for sdR−r1−00116695.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −9.698
Max value = 22.465
Fiber−Flat
1.5
1.0
0.5
0.0
6000
7000
8000
9000
10000
λ [A]
Sat Apr 12 11:08:19 2014

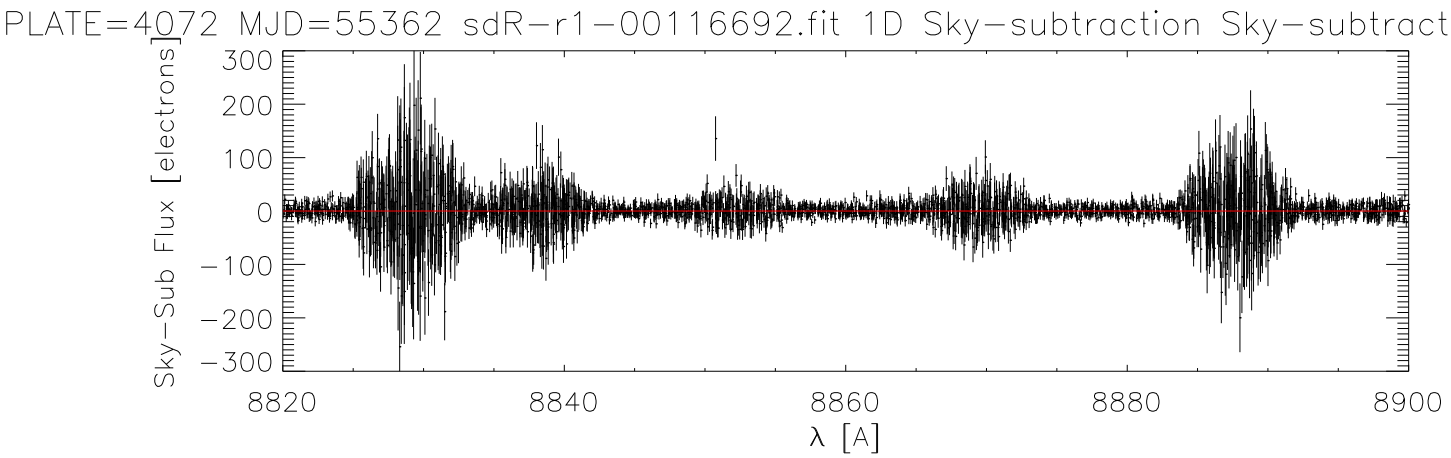

PLATE=4072 MJD=55362 Extraction chi$^2$ for sdR−r1−00116692.fit
BLACK = Final chisq extraction
$\chi^2$
2.0
1.5
1.0
0.5
0.0
0
1000
2000
3000
4000
Row number


PLATE=4072 MJD=55362 Sky Line Deviations for sdR-r1-00116692.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

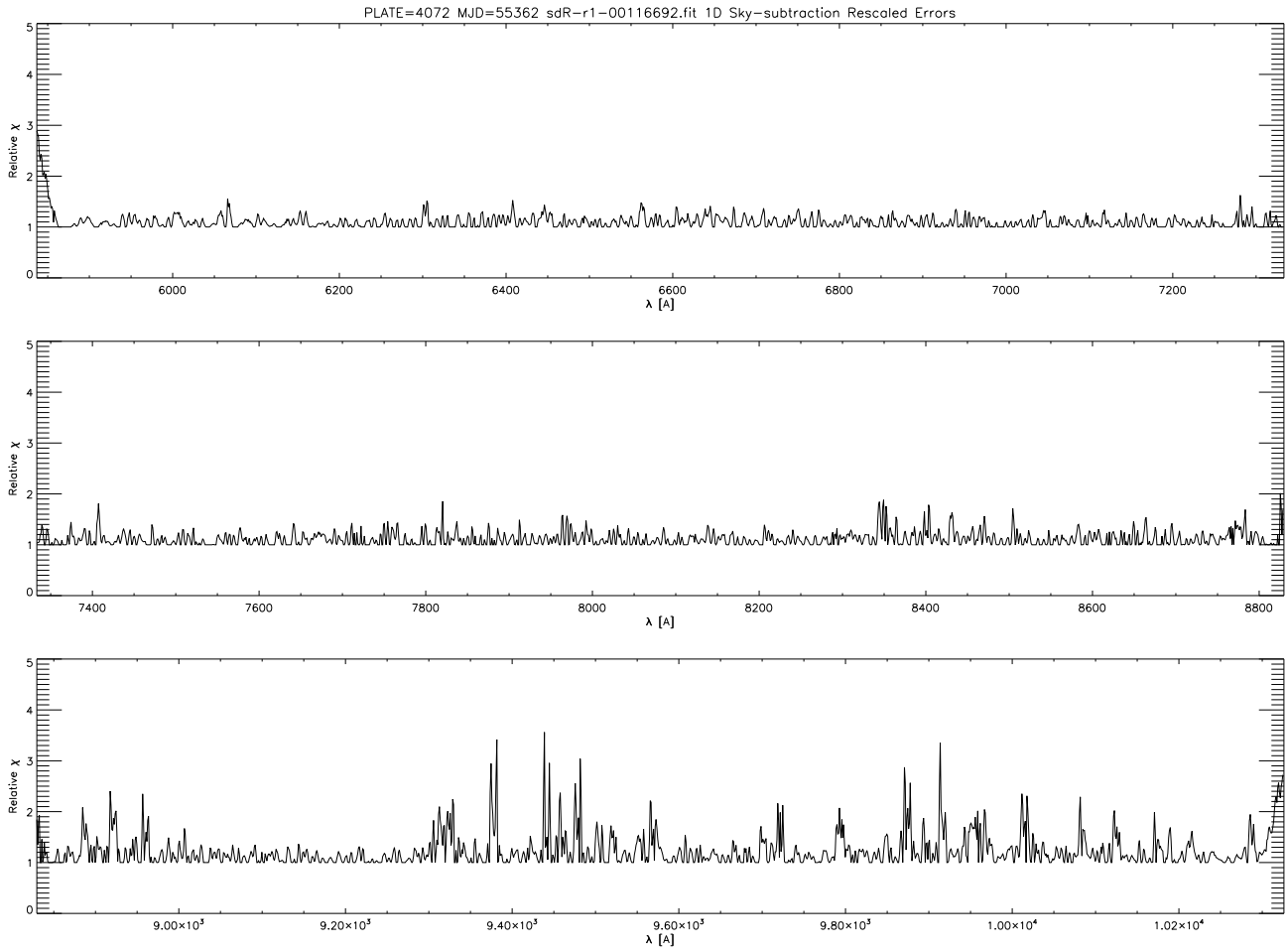

PLATE=4072 MJD=55362 Smooth superflat for sdR-r1-00116692.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

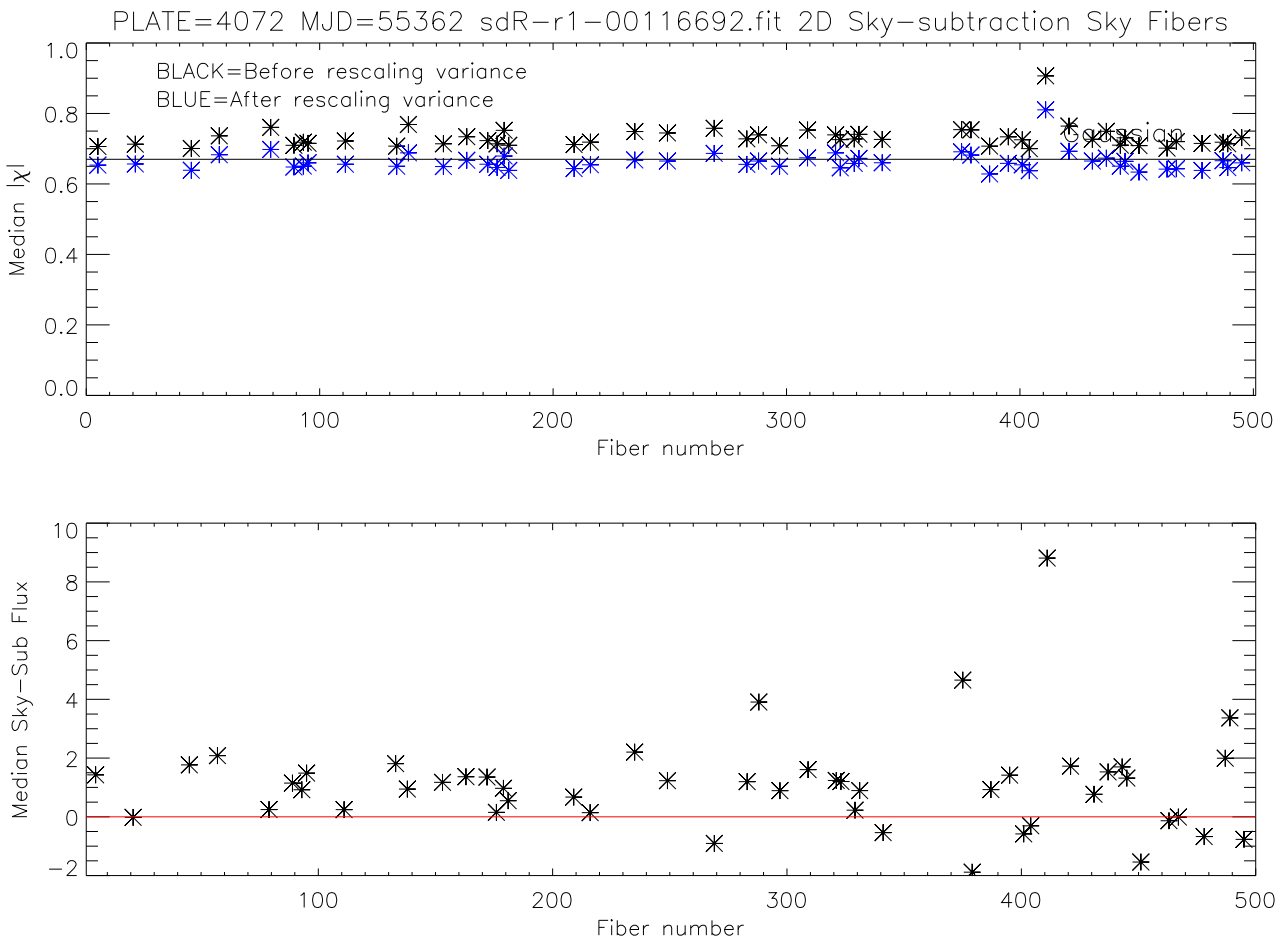

PLATE=4072 MJD=55362 sdR-r1-00116692.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

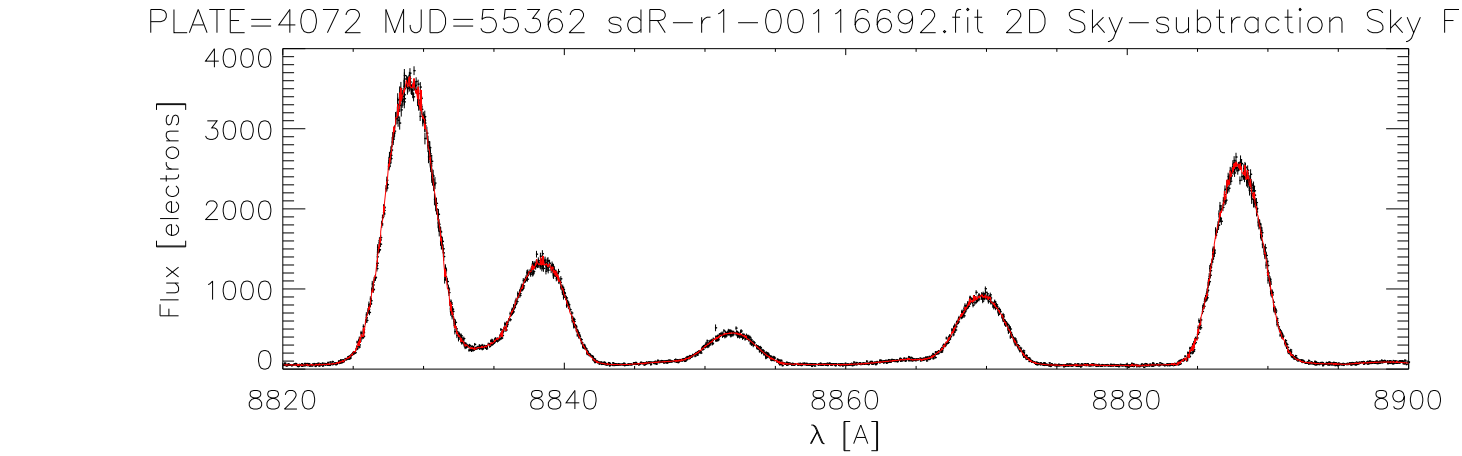

PLATE=4072 MJD=55362 sdR-r1-00116692.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

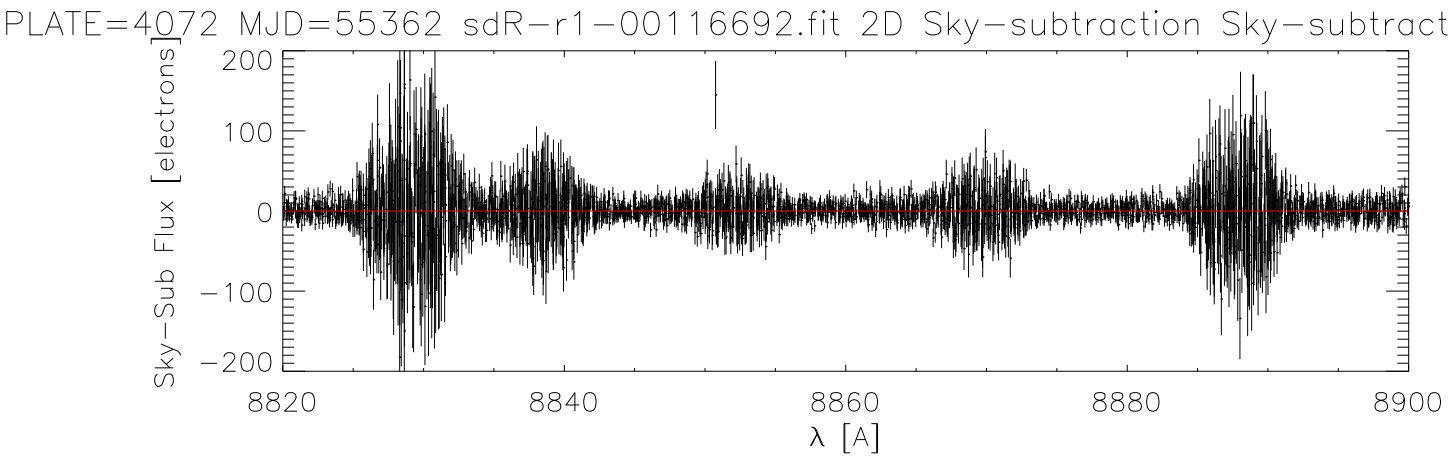

PLATE=4072 MJD=55362 sdR-r1-00116692.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 50

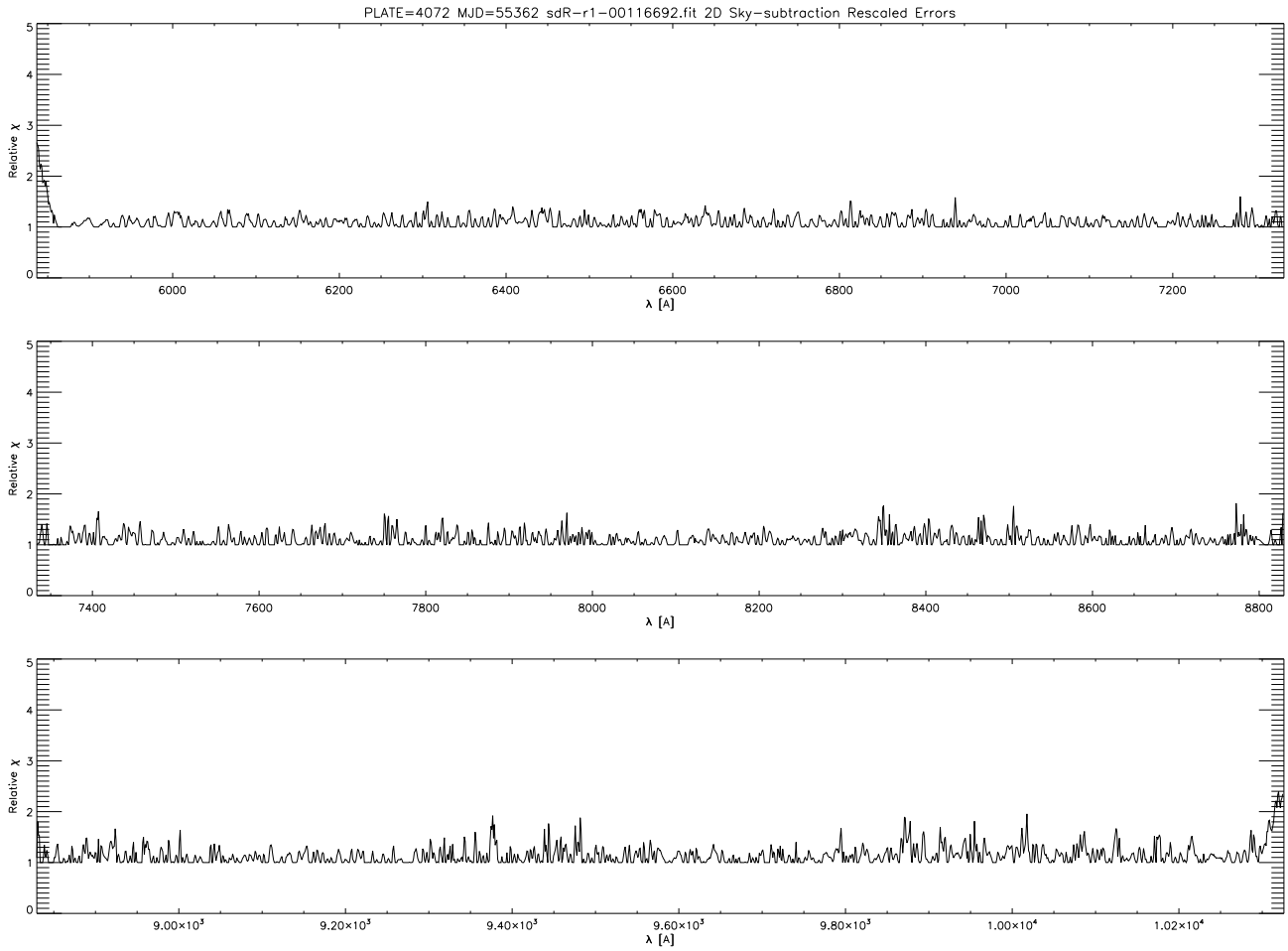


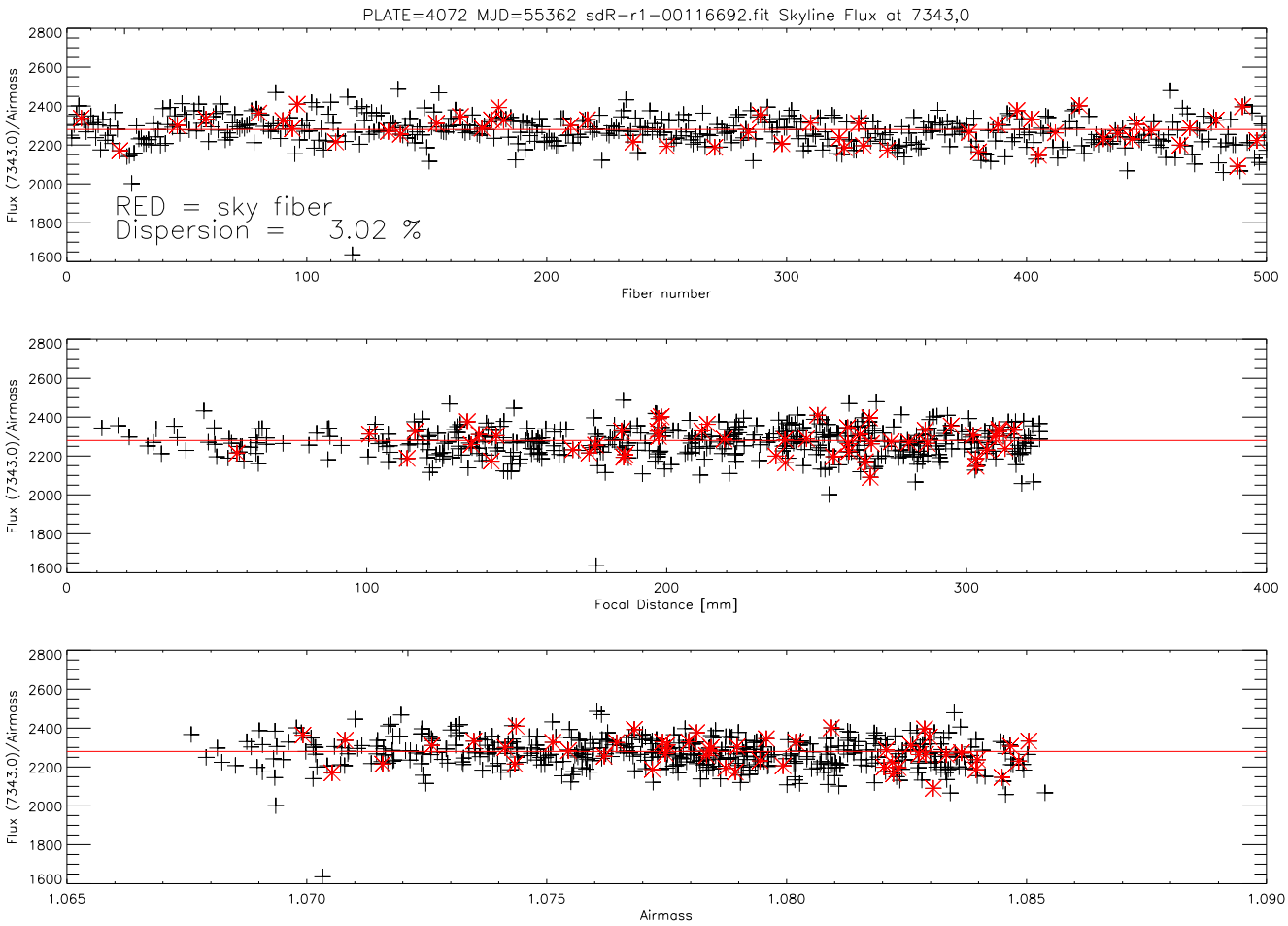

PLATE=4072 MJD=55362 sdR-r1-00116692.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

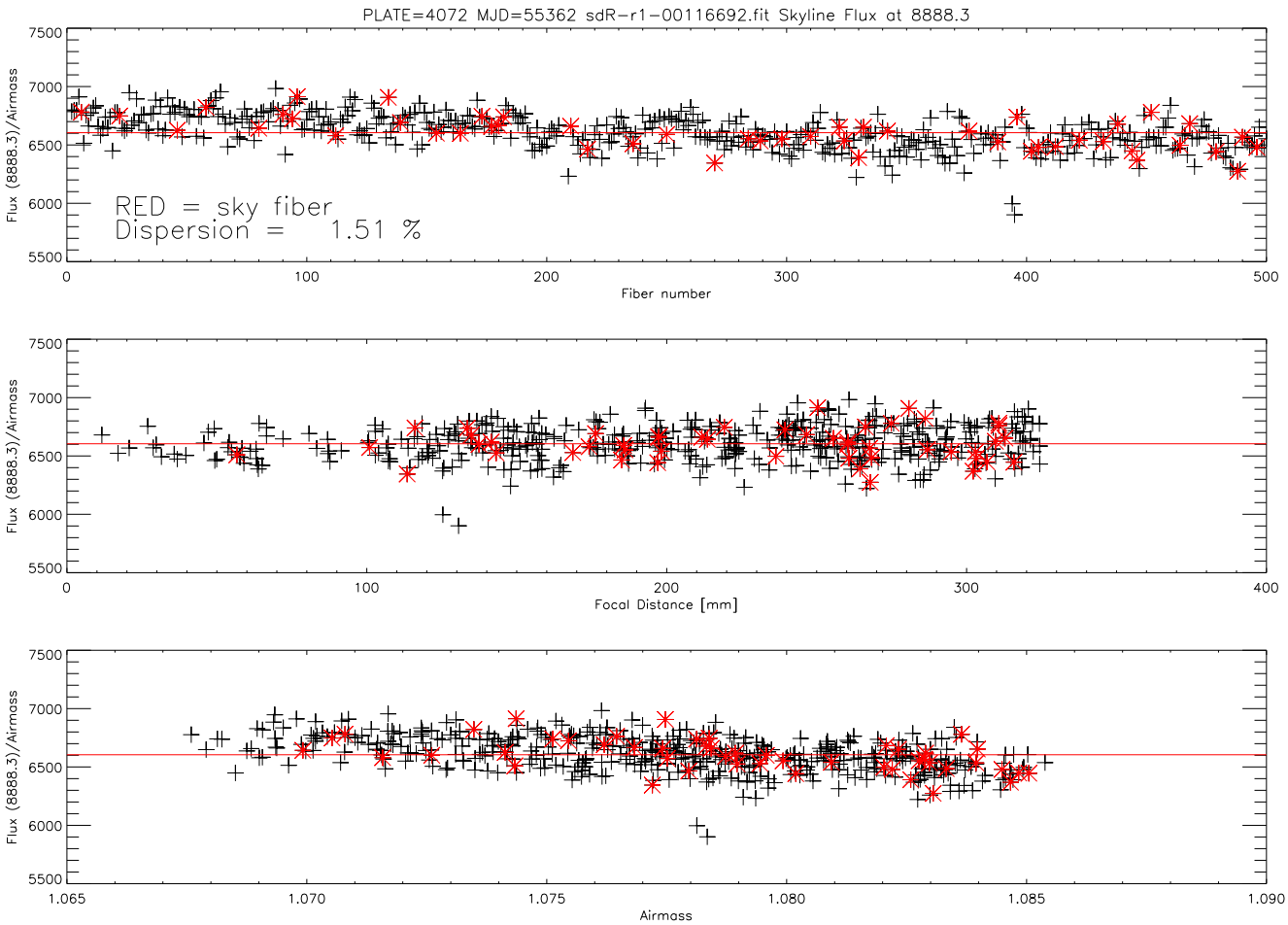

PLATE=4072 MJD=55362 sdR-r1-00116692.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

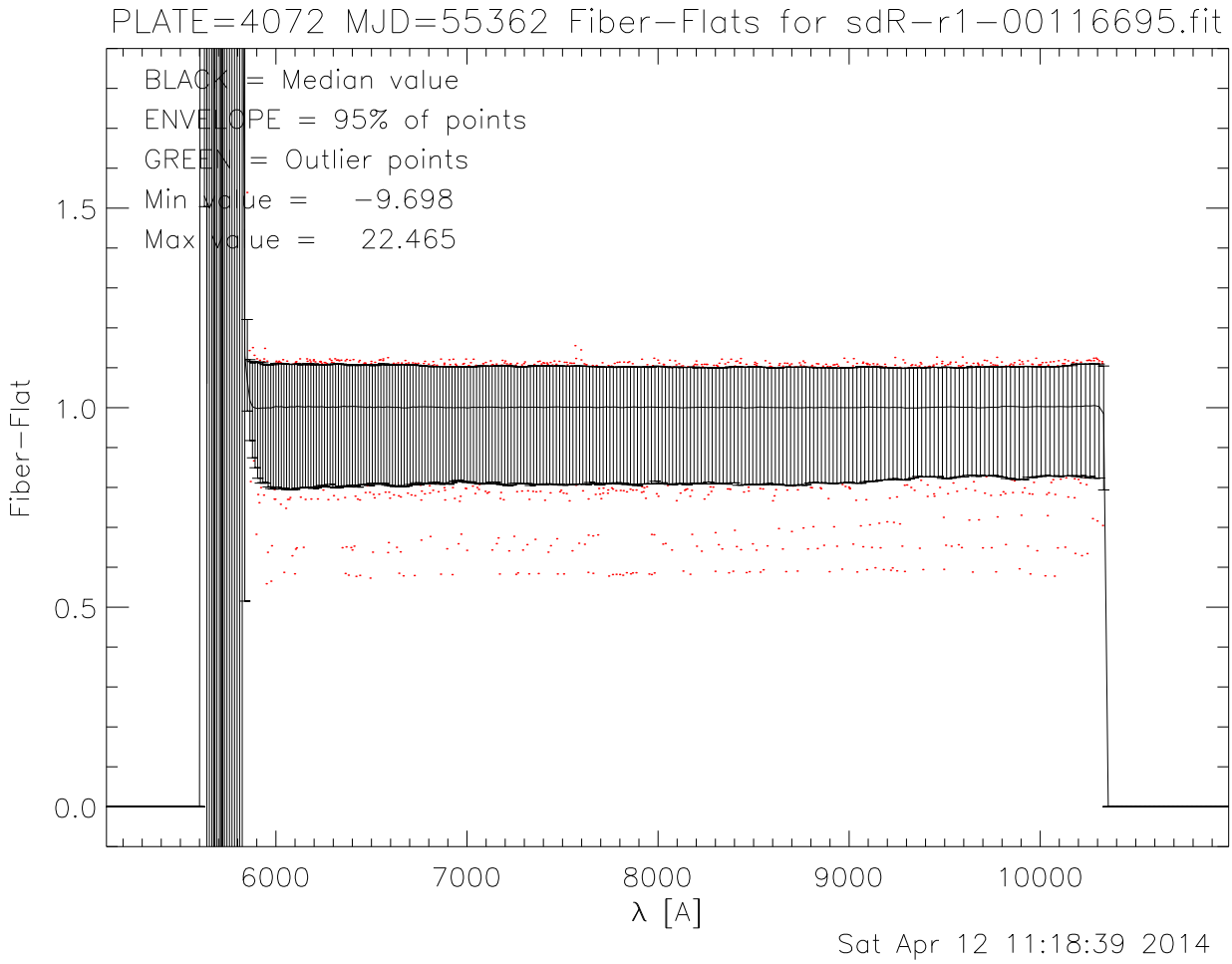

PLATE=4072 MJD=55362 sdR-r1-00116692.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

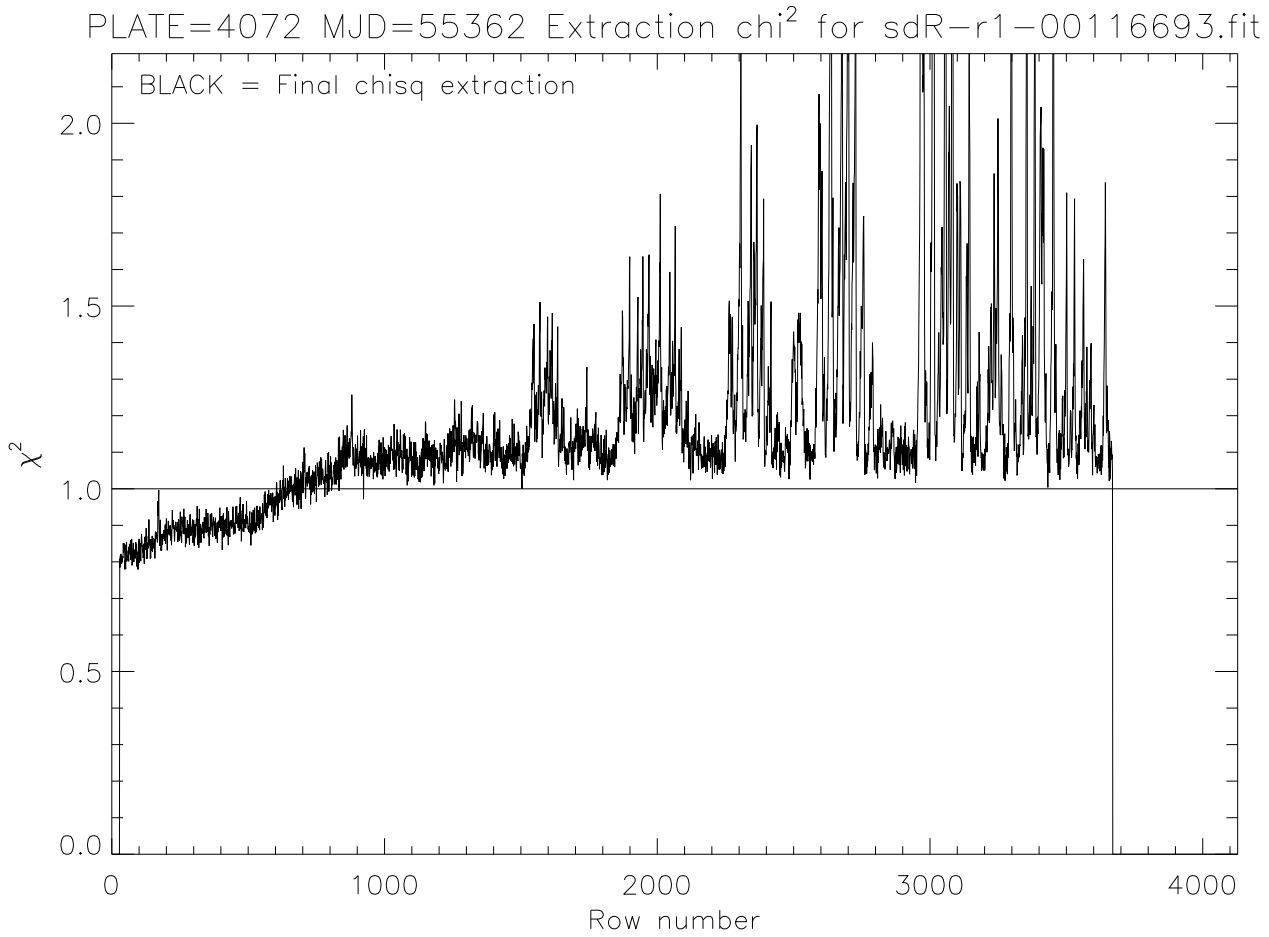
Number of sky fibers = 50

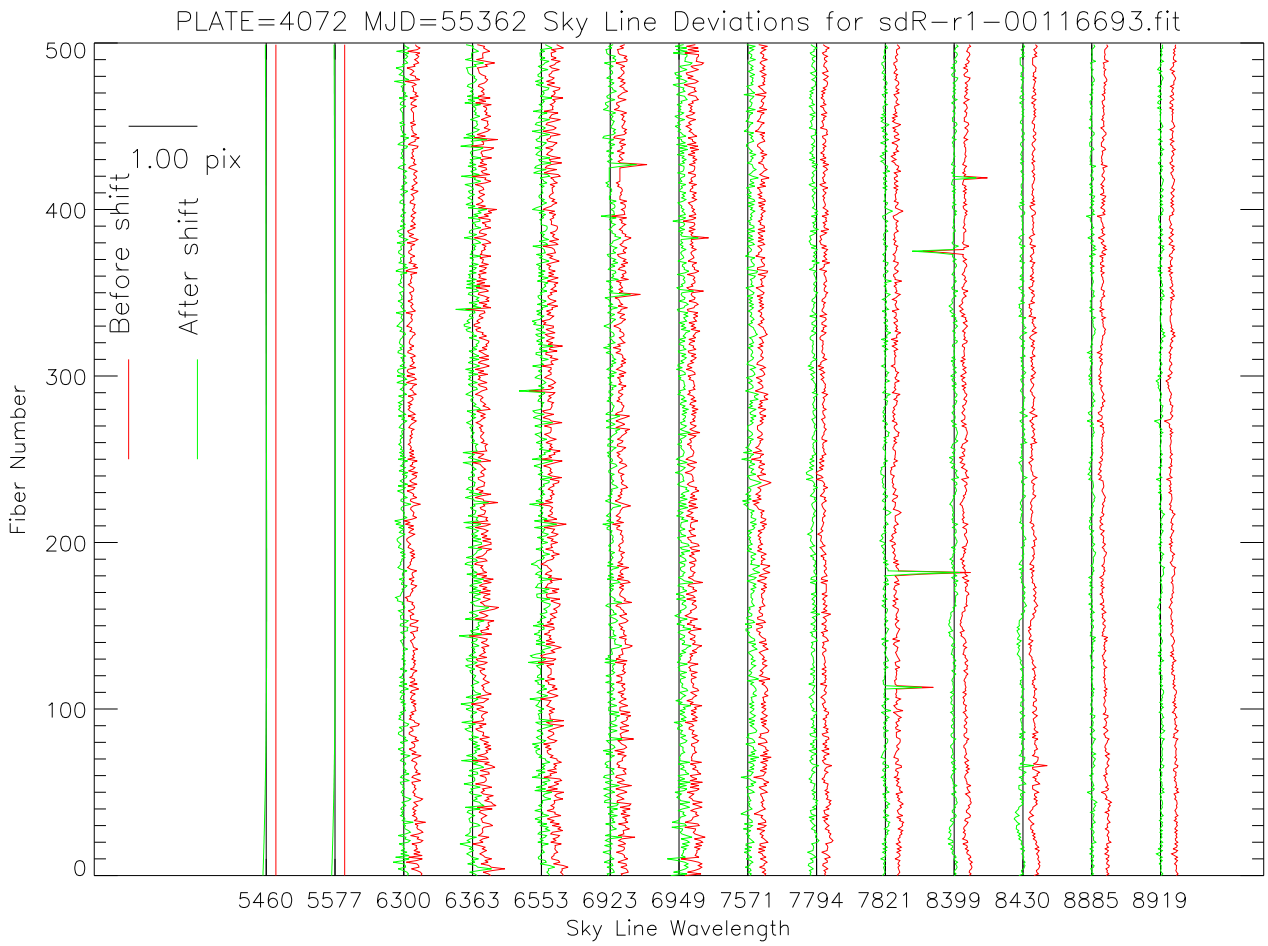


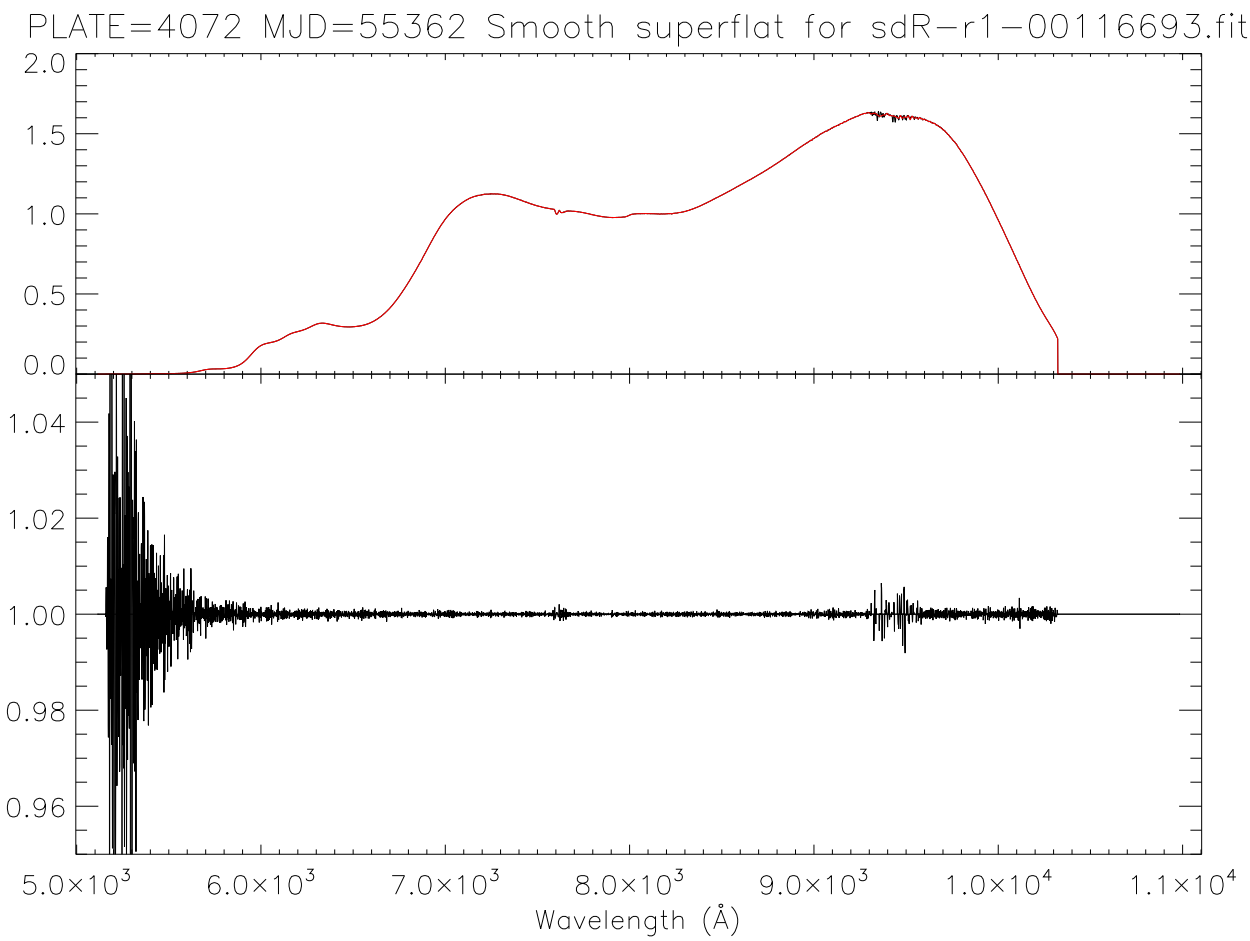

PLATE=4072 MJD=55362 sdR-r1-00116692.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.02 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

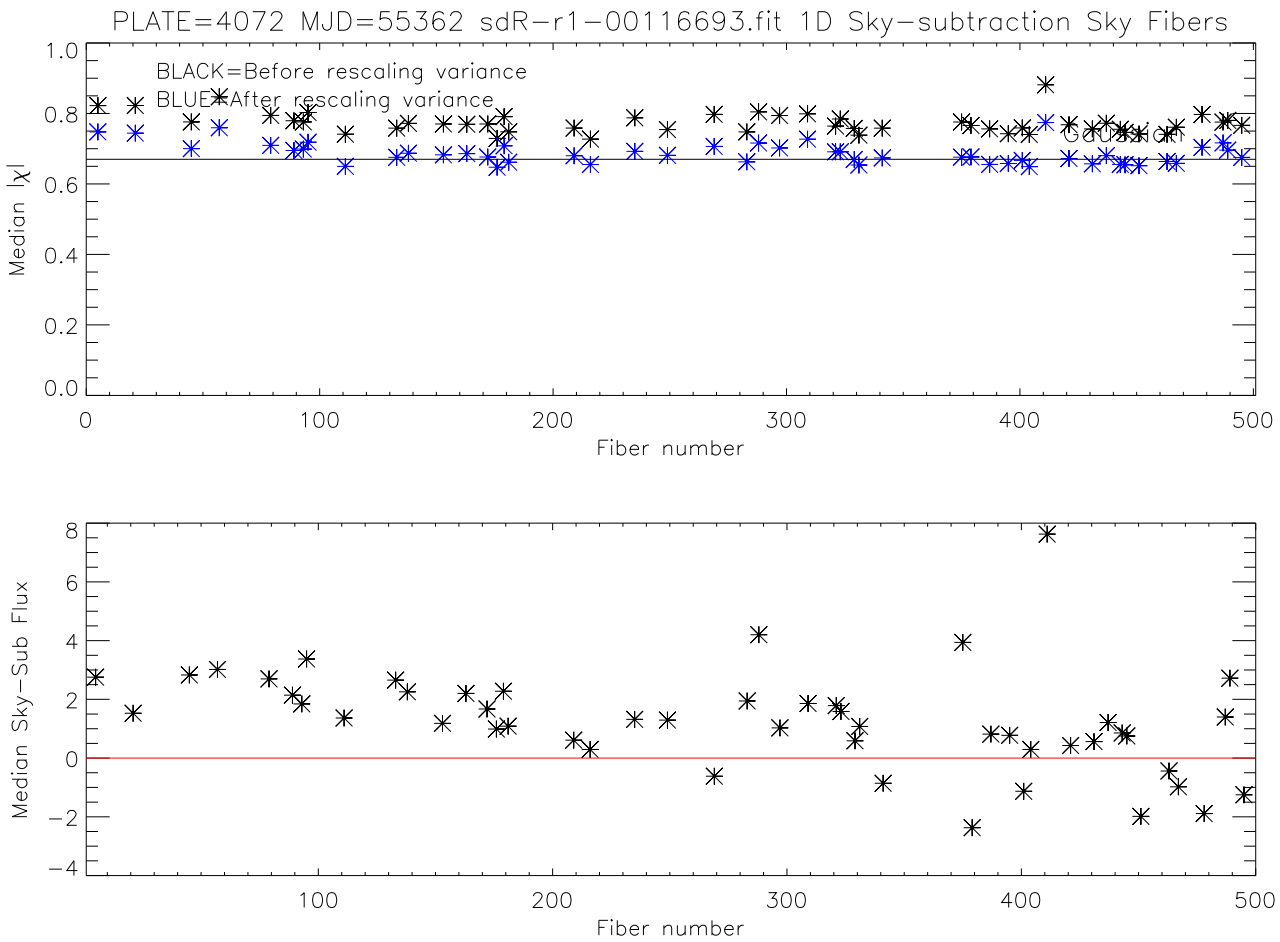

PLATE=4072 MJD=55362 sdR-r1-00116692.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.51 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

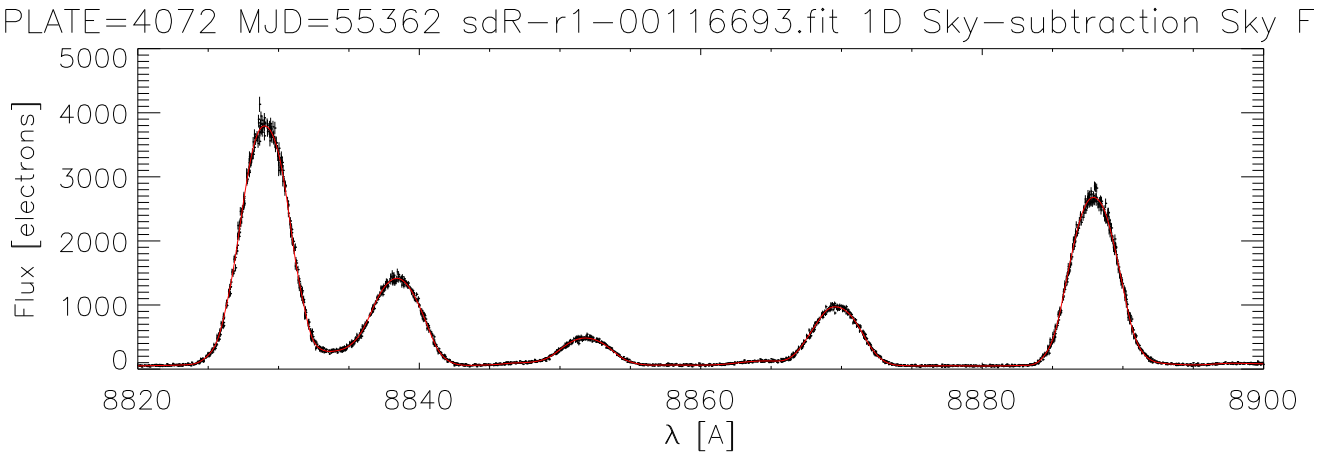

PLATE=4072 MJD=55362 Fiber−Flats for sdR−r1−00116695.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −9.698
Max value = 22.465
Fiber−Flat
1.5
1.0
0.5
0.0
6000
7000
8000
9000
10000
λ [A]
Sat Apr 12 11:18:39 2014

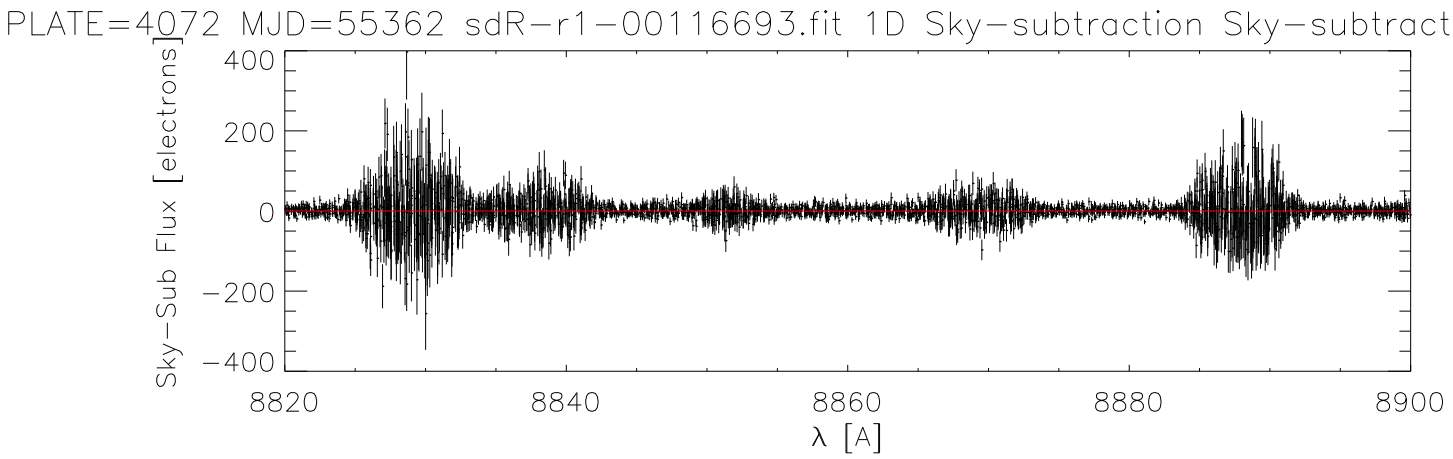

PLATE=4072 MJD=55362 Extraction chi$^2$ for sdR−r1−00116693.fit
BLACK = Final chisq extraction
2.0
1.5
1.0
0.5
0.0
$\chi^2$
0
1000
2000
3000
4000
Row number


PLATE=4072 MJD=55362 Sky Line Deviations for sdR-r1-00116693.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

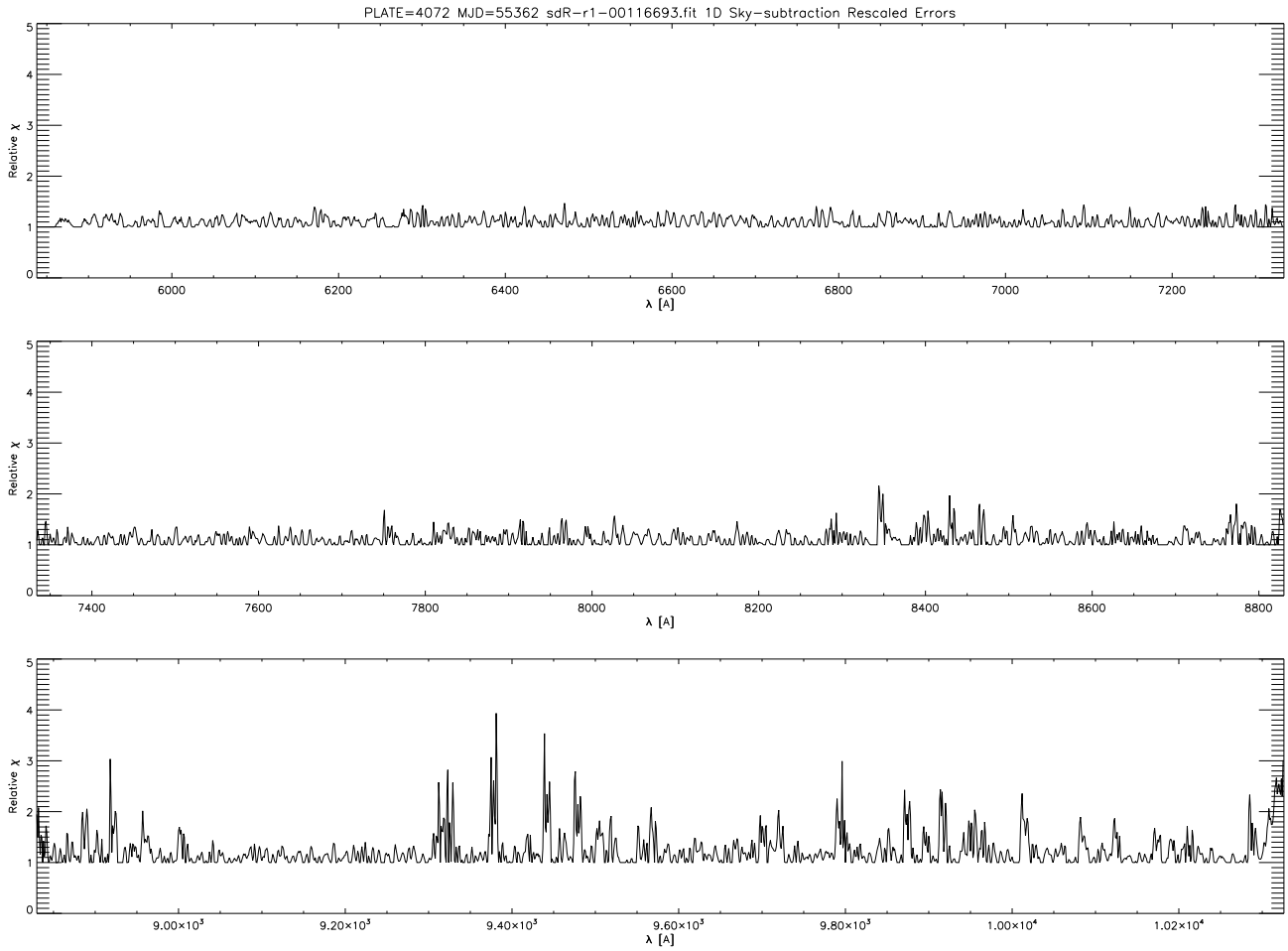

PLATE=4072 MJD=55362 Smooth superflat for sdR-r1-00116693.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

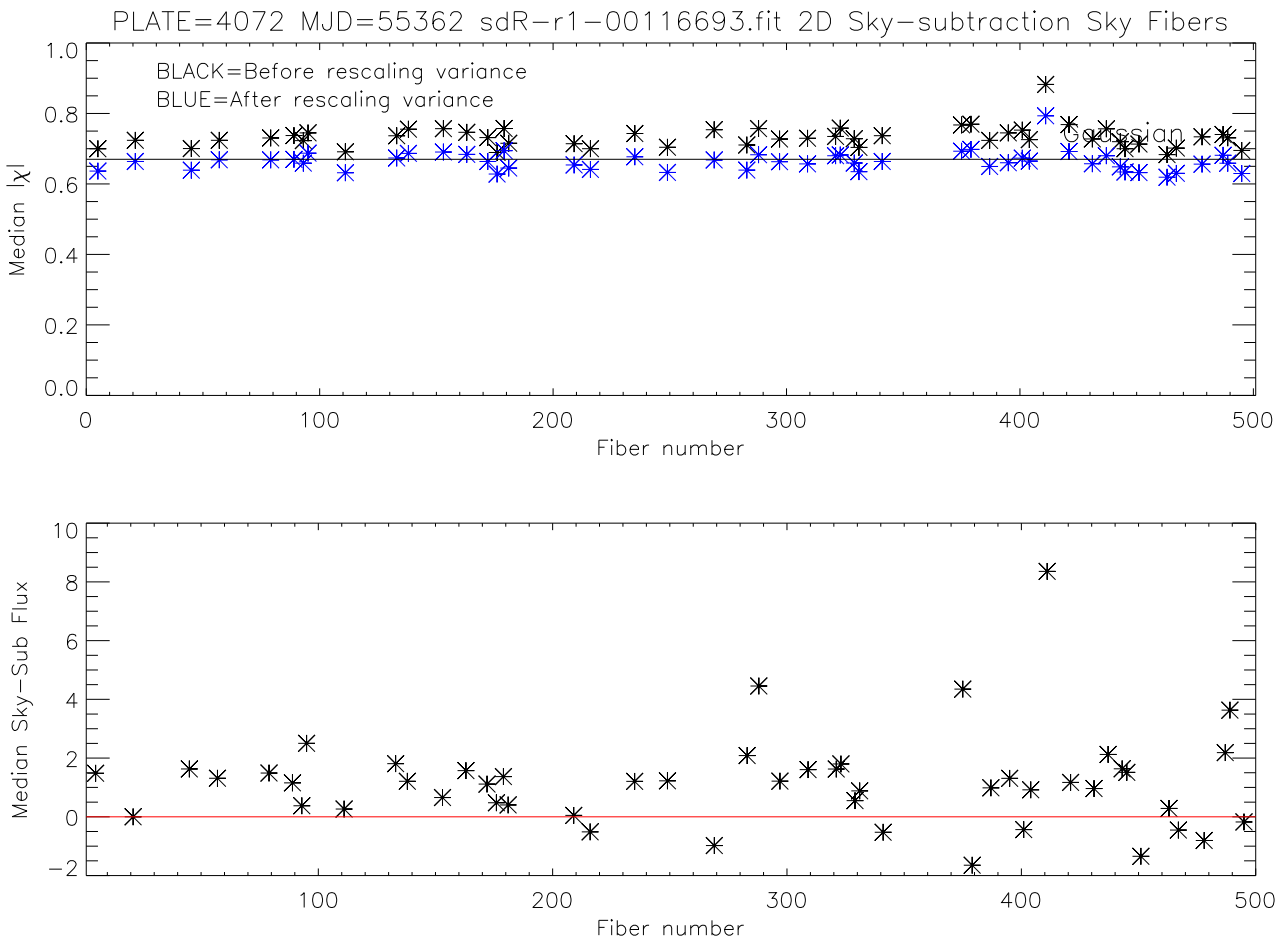

PLATE=4072 MJD=55362 sdR-r1-00116693.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

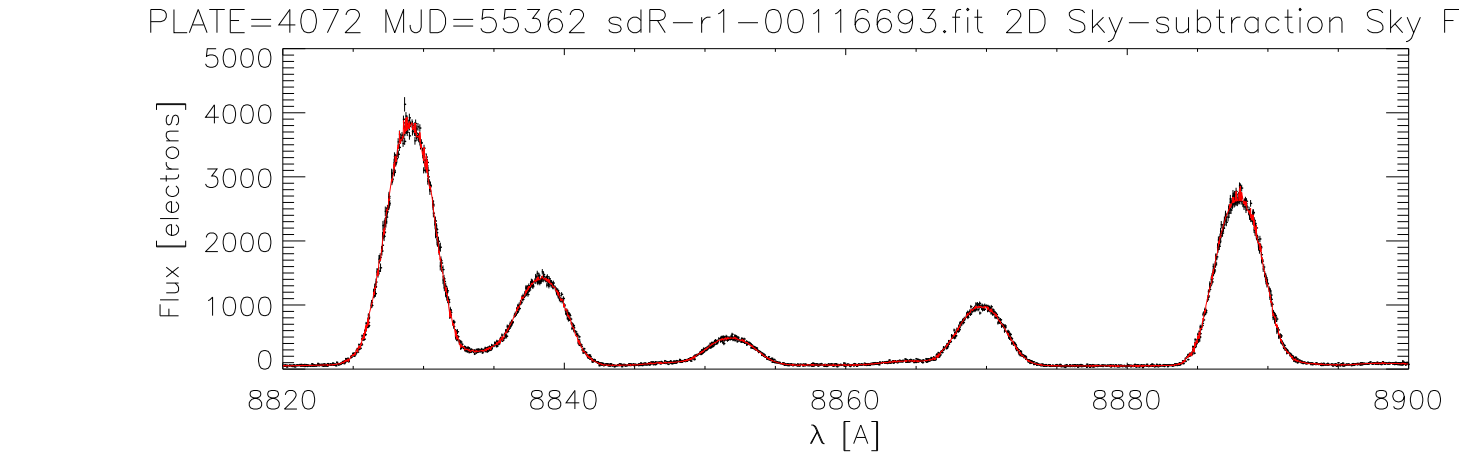

PLATE=4072 MJD=55362 sdR-r1-00116693.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

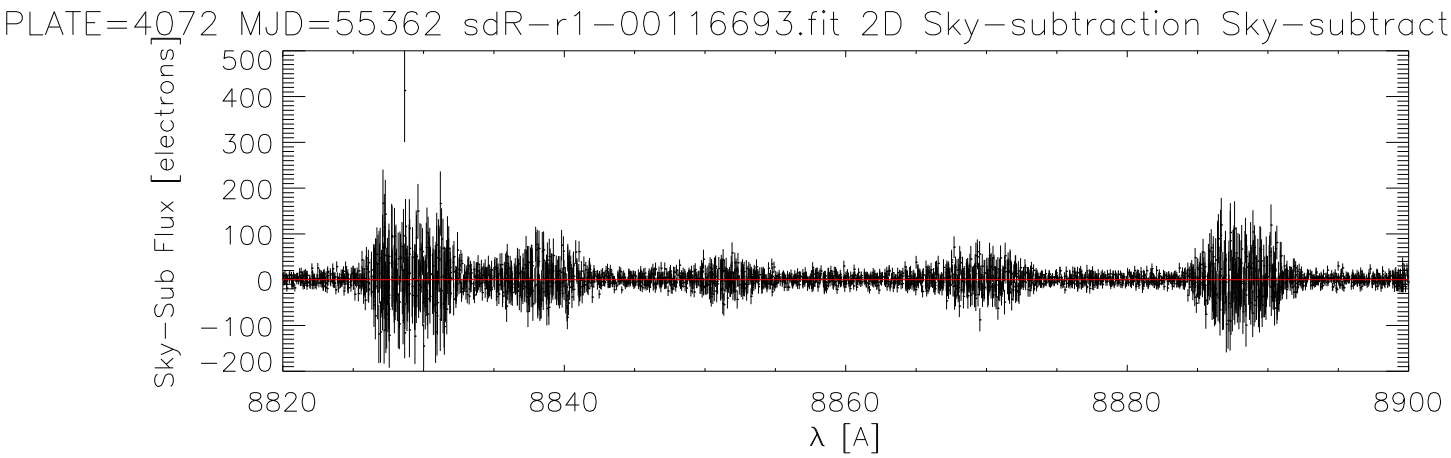

PLATE=4072 MJD=55362 sdR-r1-00116693.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 50

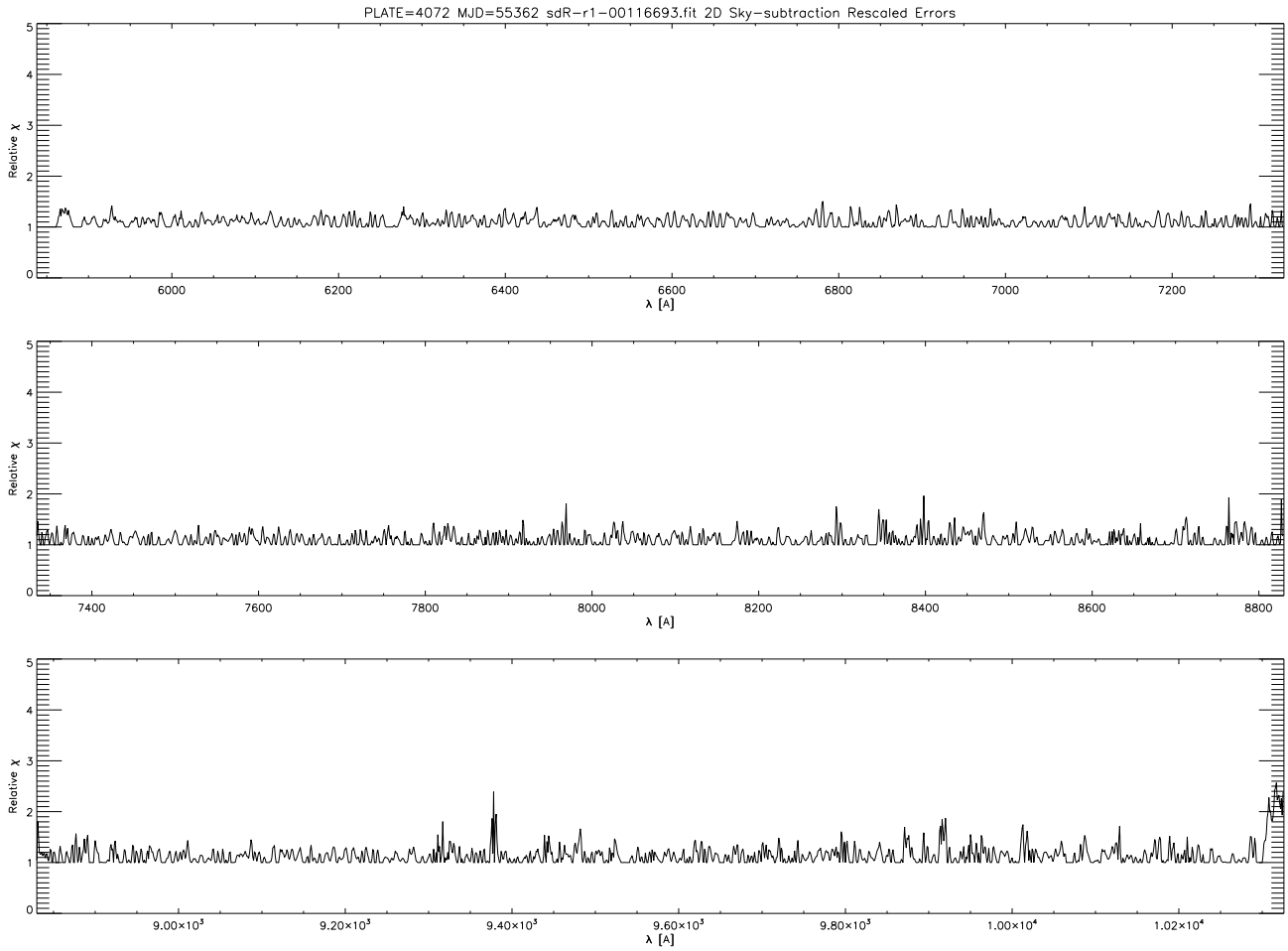


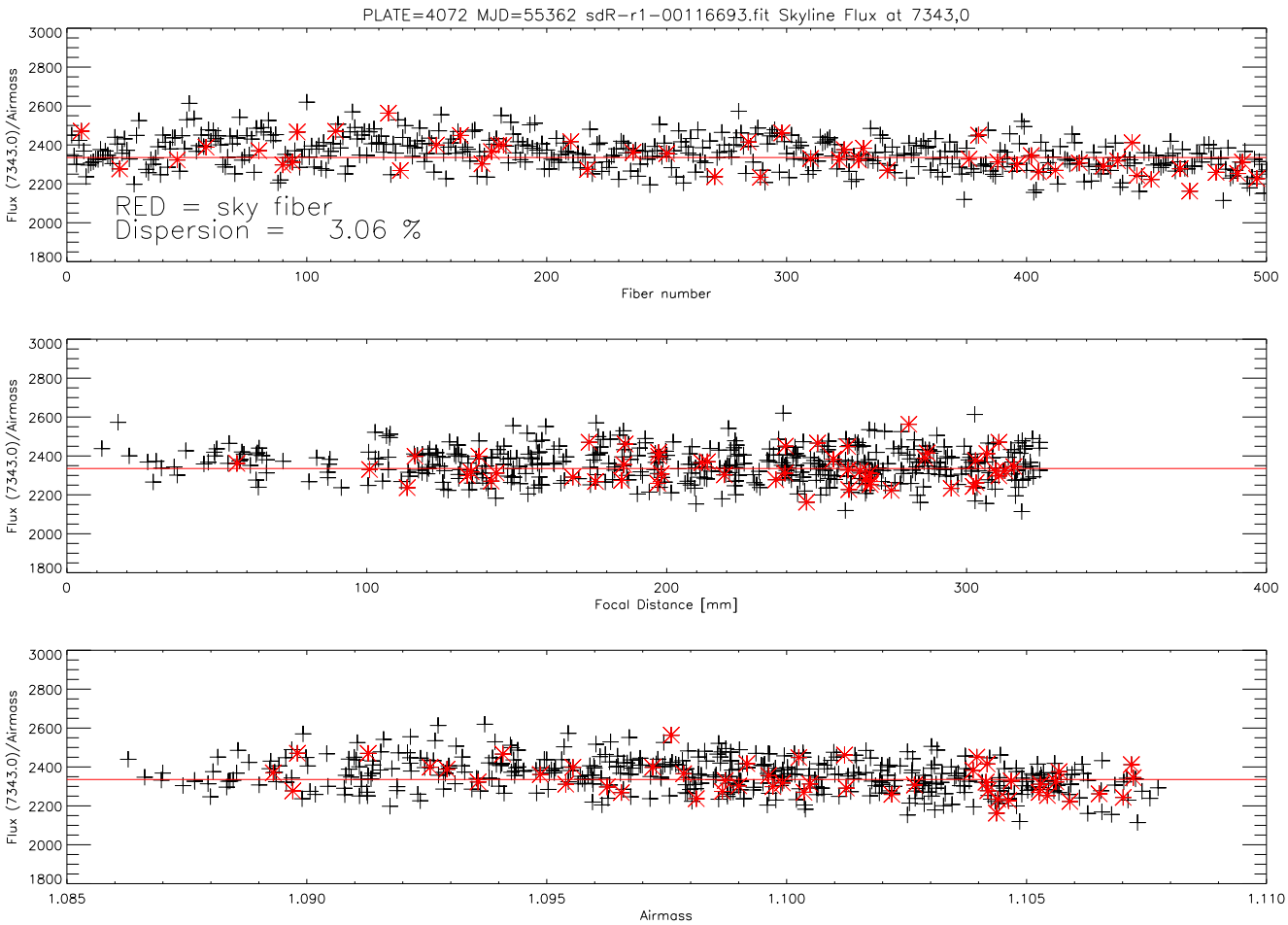

PLATE=4072 MJD=55362 sdR-r1-00116693.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

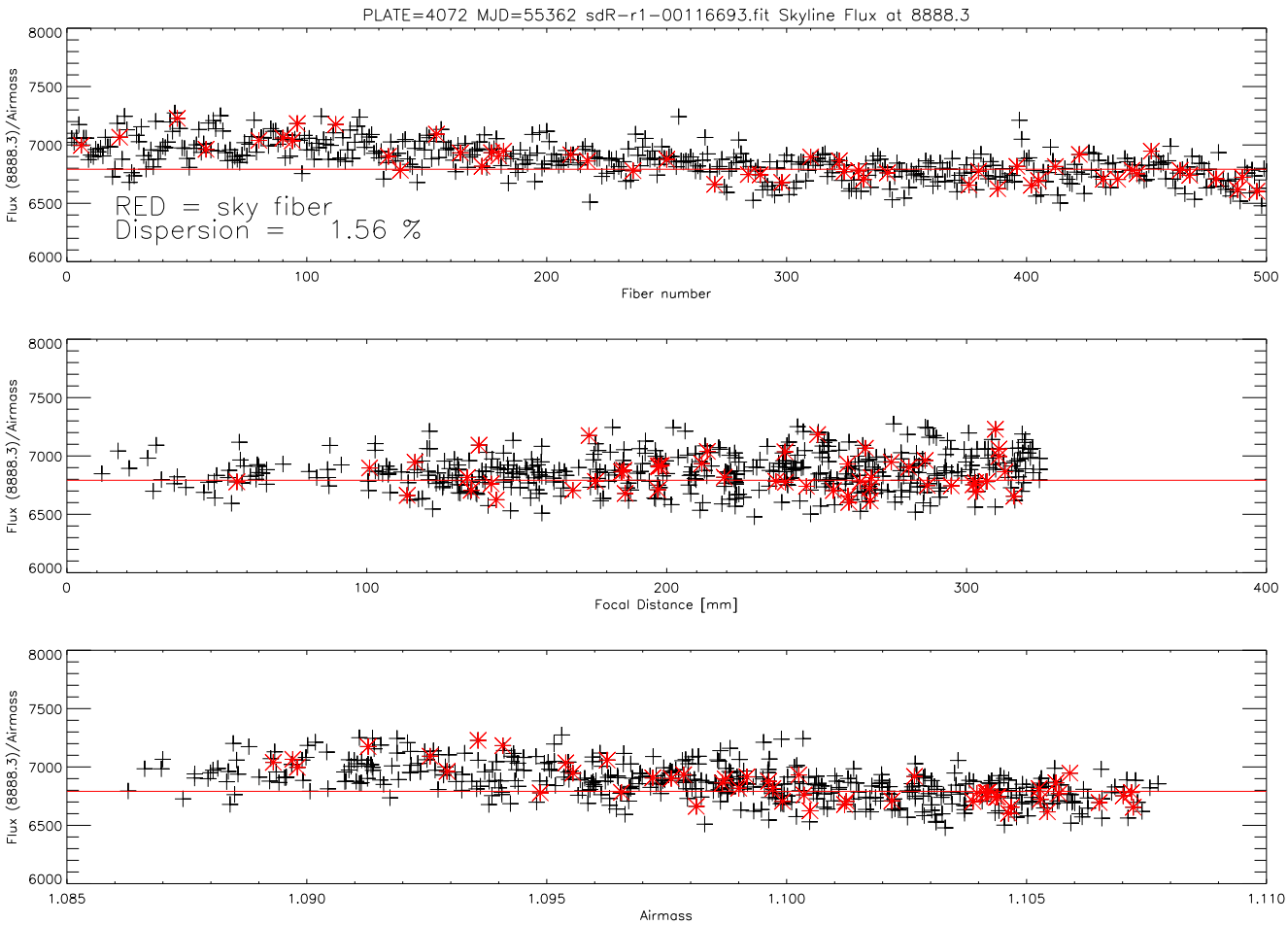

PLATE=4072 MJD=55362 sdR-r1-00116693.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

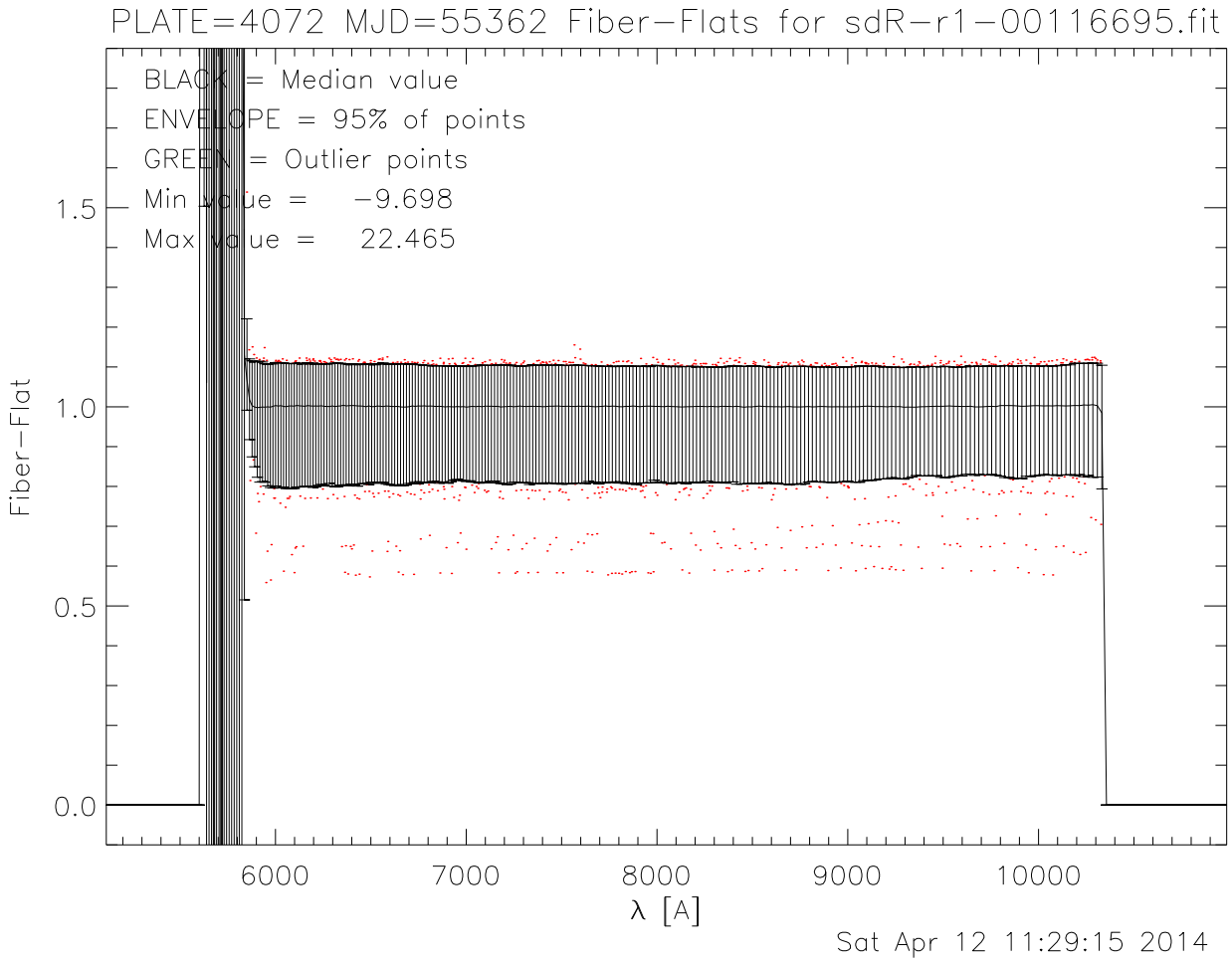

PLATE=4072 MJD=55362 sdR-r1-00116693.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
500
400
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

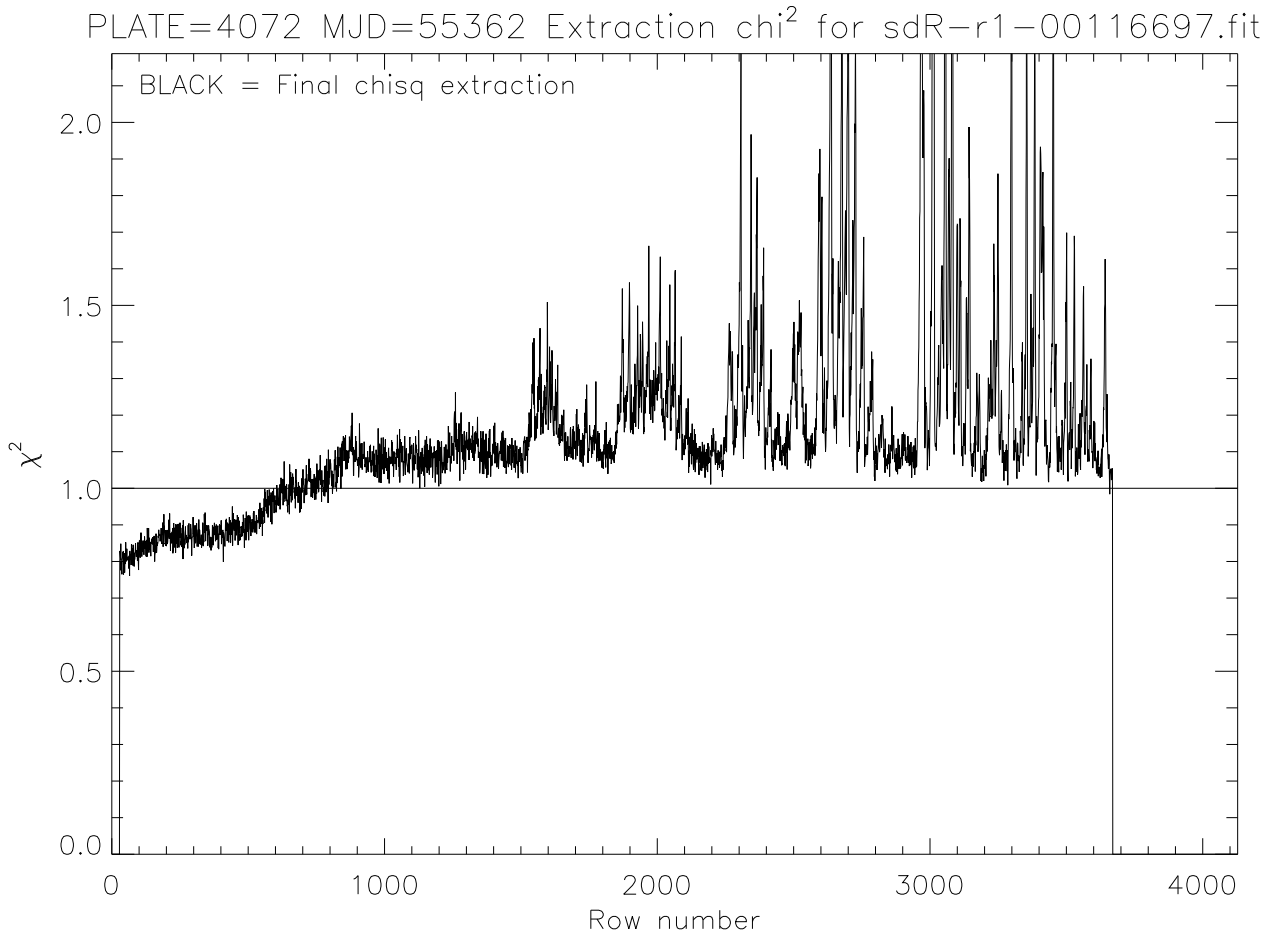
Number of sky fibers = 50

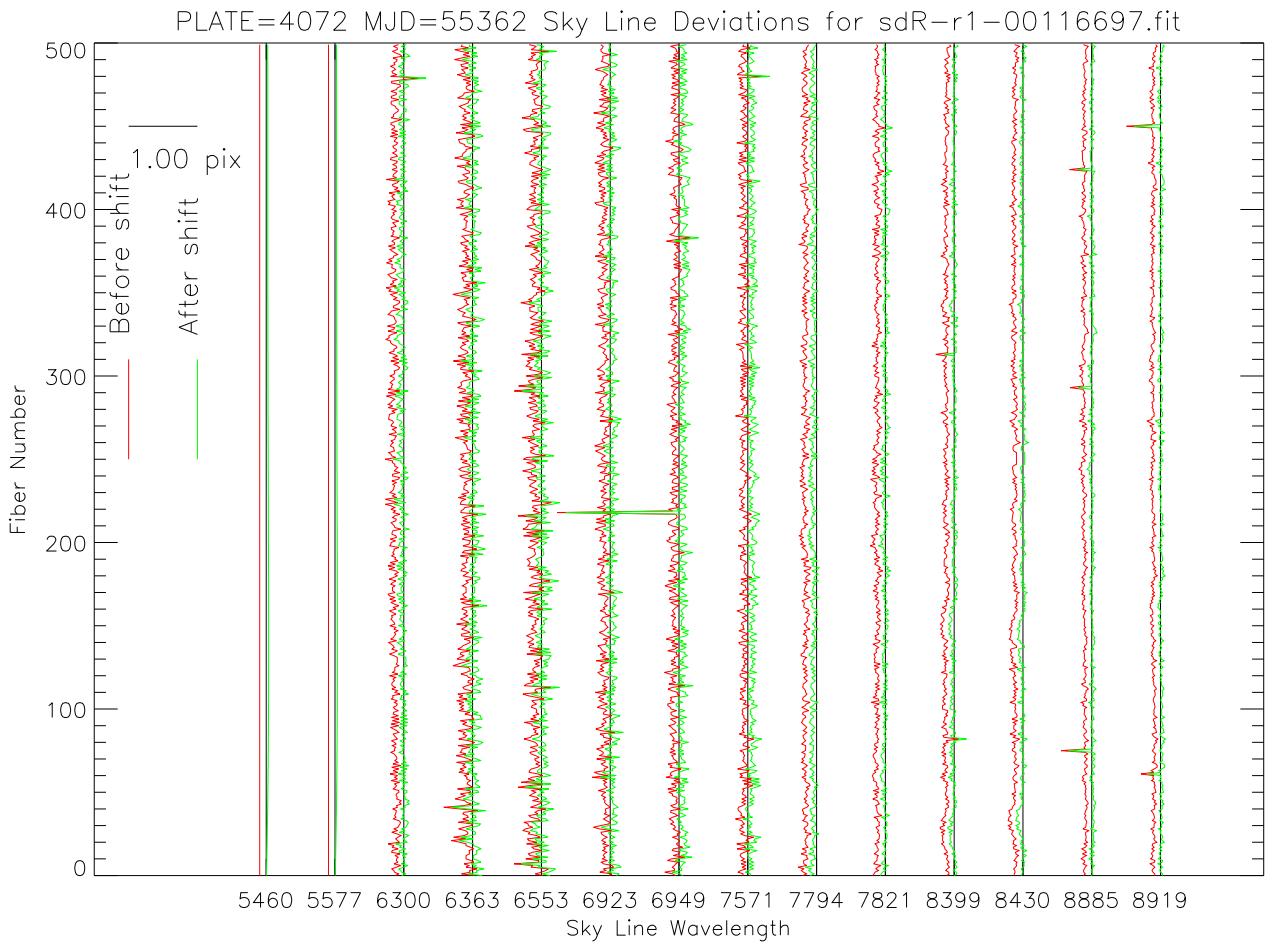


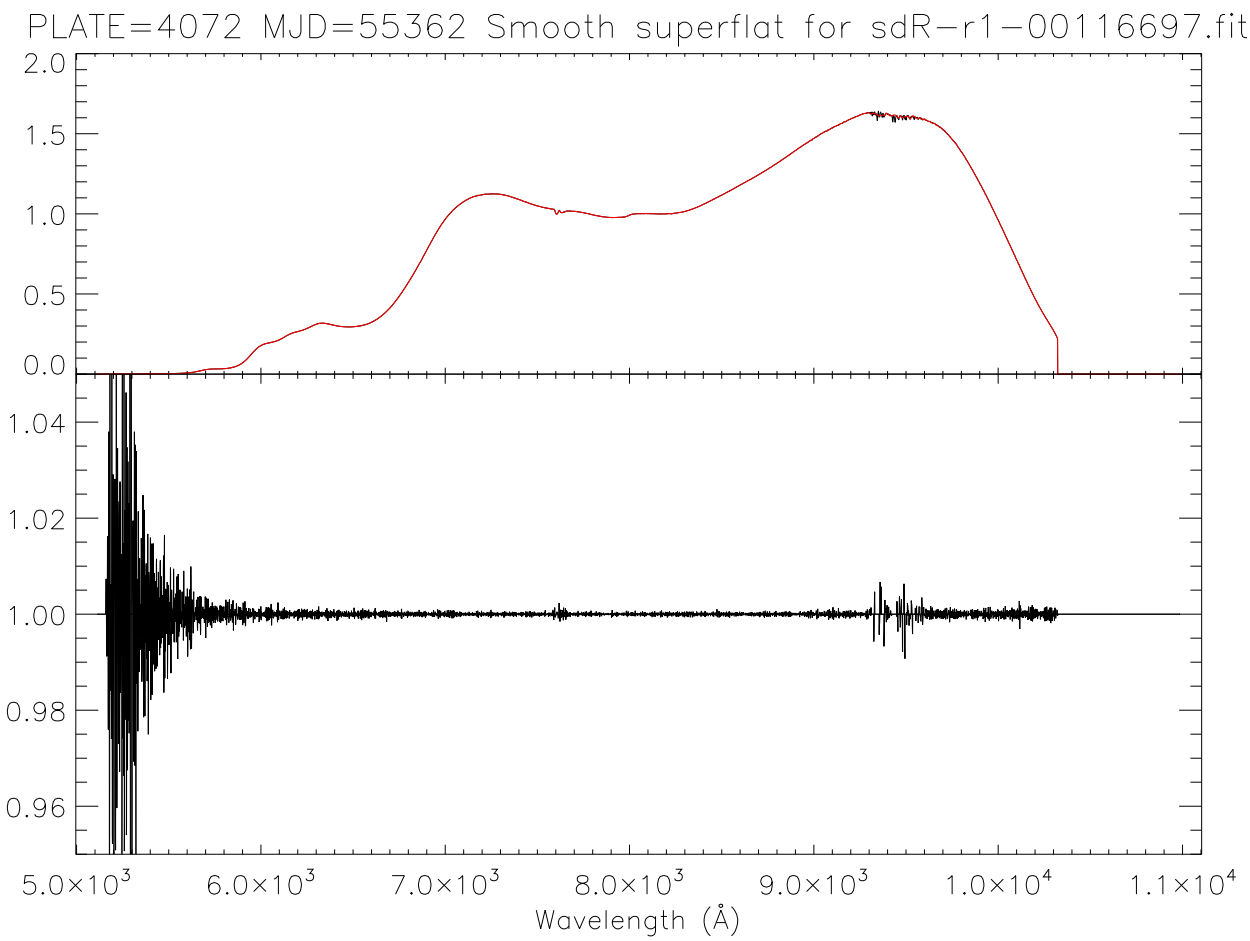

PLATE=4072 MJD=55362 sdR-r1-00116693.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.06 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

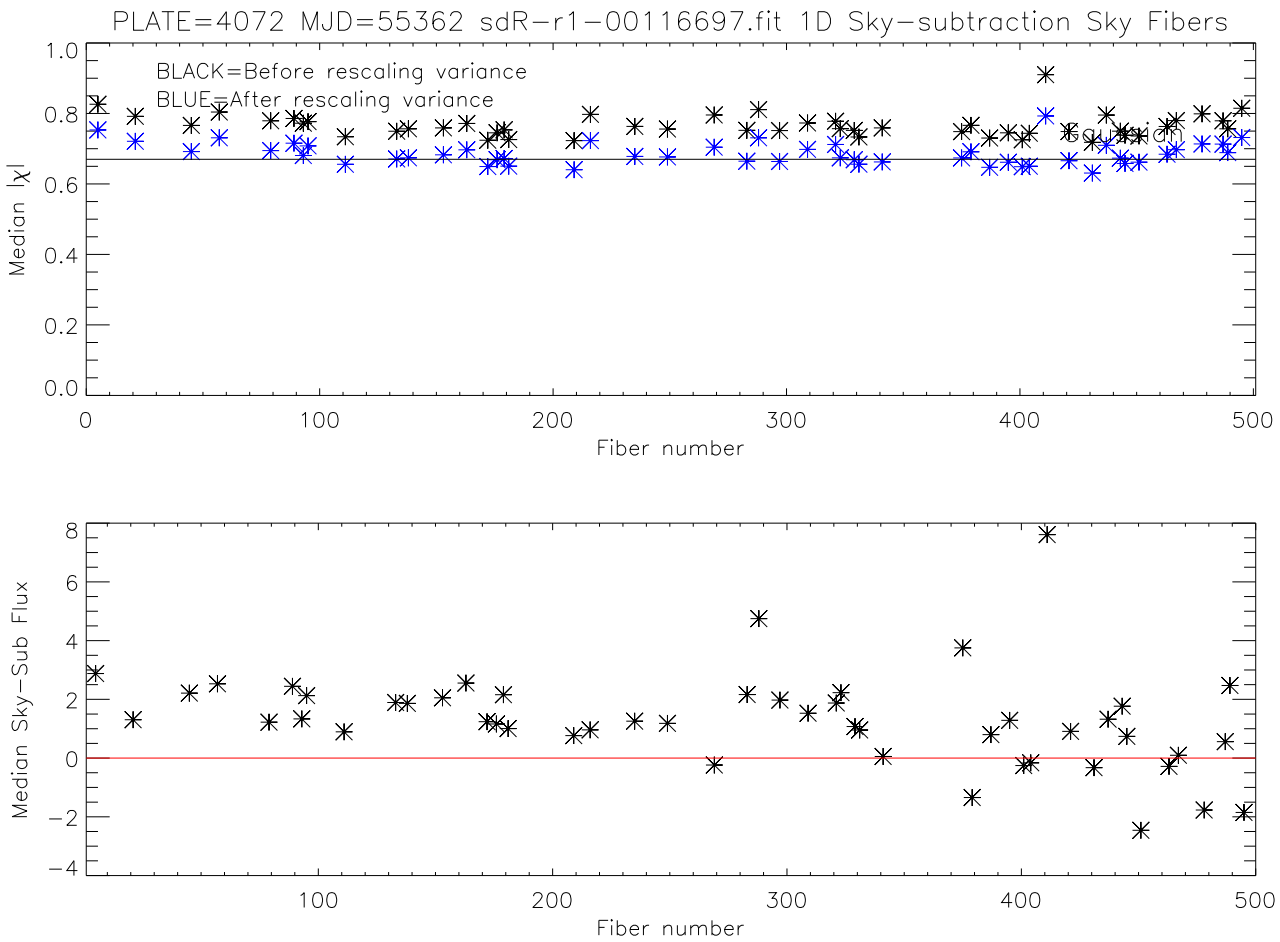

PLATE=4072 MJD=55362 sdR-r1-00116693.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.56 %
Fiber number
Focal Distance [mm]
Airmass


PLATE=4072 MJD=55362 Fiber−Flats for sdR−r1−00116695.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −9.698
Max value = 22.465
Fiber−Flat
1.5
1.0
0.5
0.0
6000
7000
8000
9000
10000
λ [A]
Sat Apr 12 11:29:15 2014

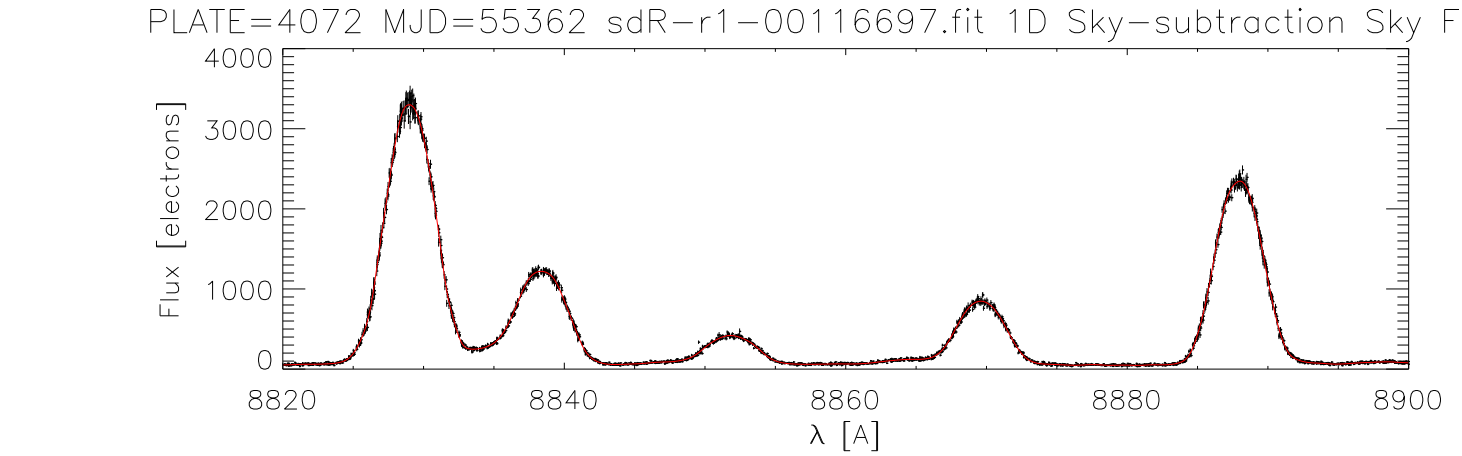

PLATE=4072 MJD=55362 Extraction chi$^2$ for sdR−r1−00116697.fit
BLACK = Final chisq extraction
$\chi^2$
2.0
1.5
1.0
0.5
0.0
0
1000
2000
3000
4000
Row number

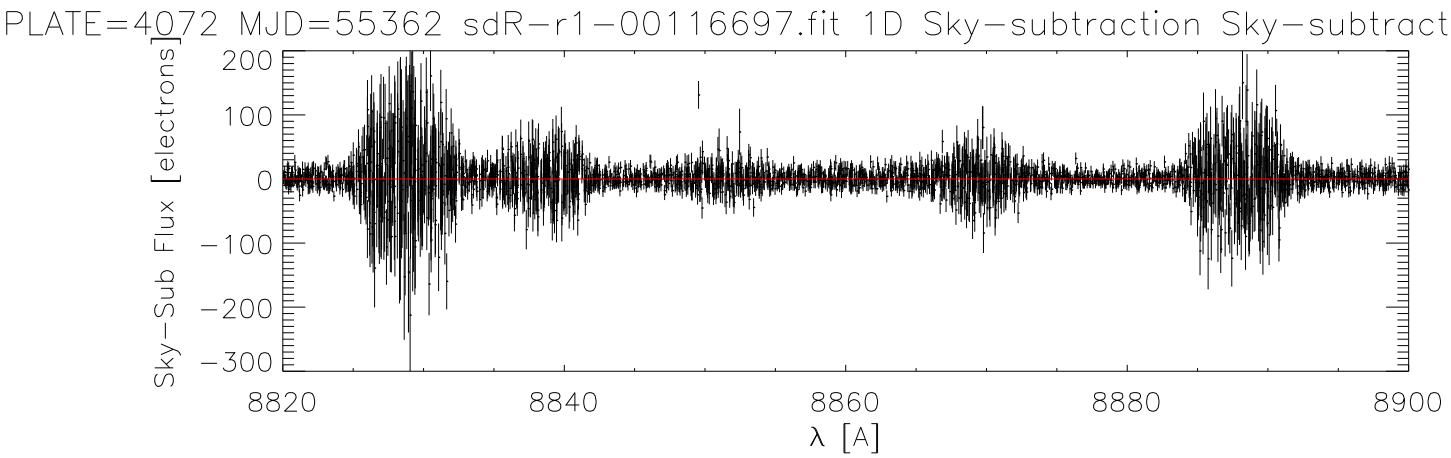

PLATE=4072 MJD=55362 Sky Line Deviations for sdR-r1-00116697.fit
Before shift
After shift
1.00 pix
Fiber Number
0
100
200
300
400
500
5460 5577 6300 6363 6553 6923 6949 7571 7794 7821 8399 8430 8885 8919
Sky Line Wavelength


PLATE=4072 MJD=55362 Smooth superflat for sdR-r1-00116697.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)

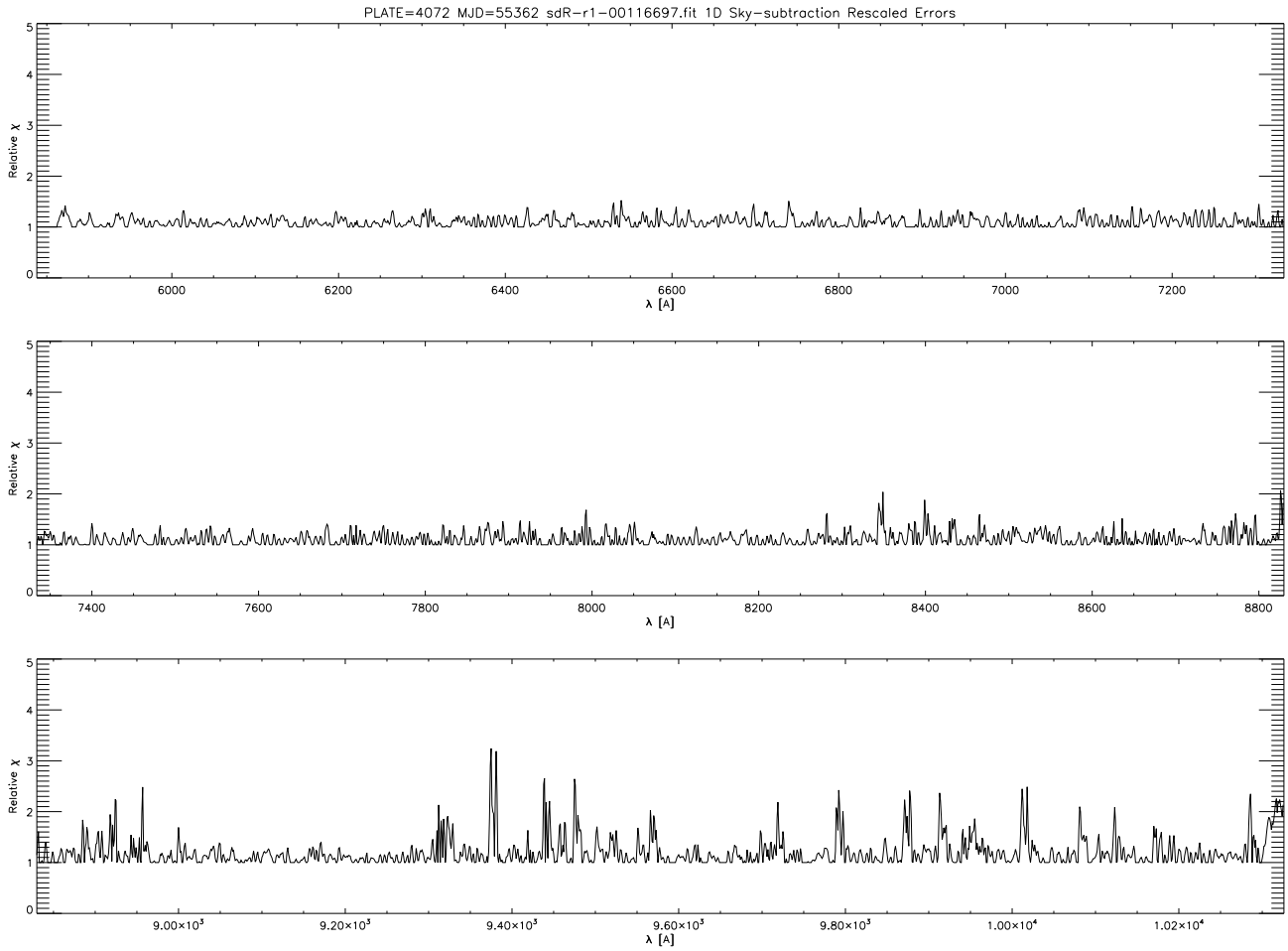

PLATE=4072 MJD=55362 sdR-r1-00116697.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Median |χ|
Fiber number

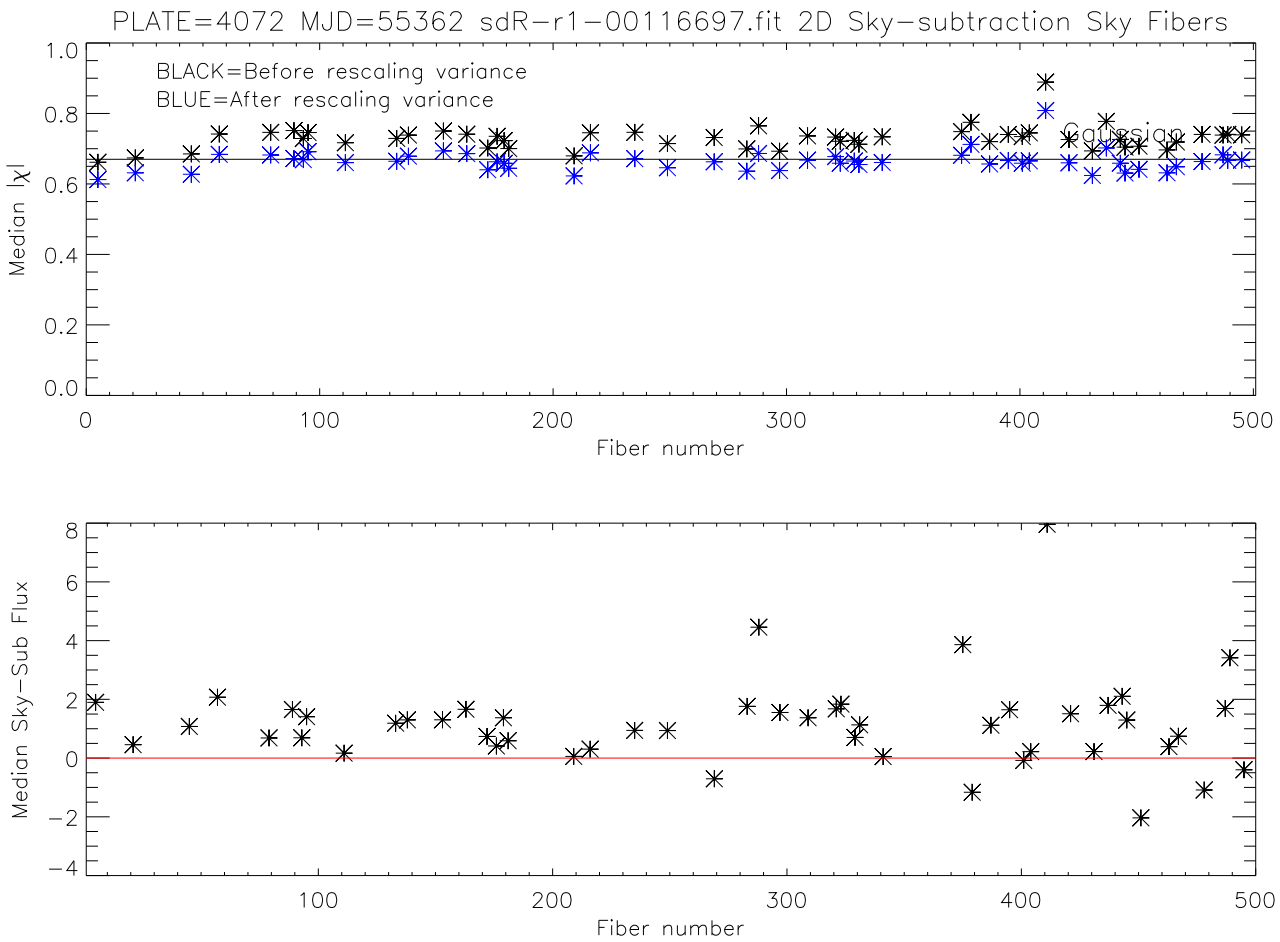

Median Sky-Sub Flux
Fiber number


PLATE=4072 MJD=55362 sdR-r1-00116697.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

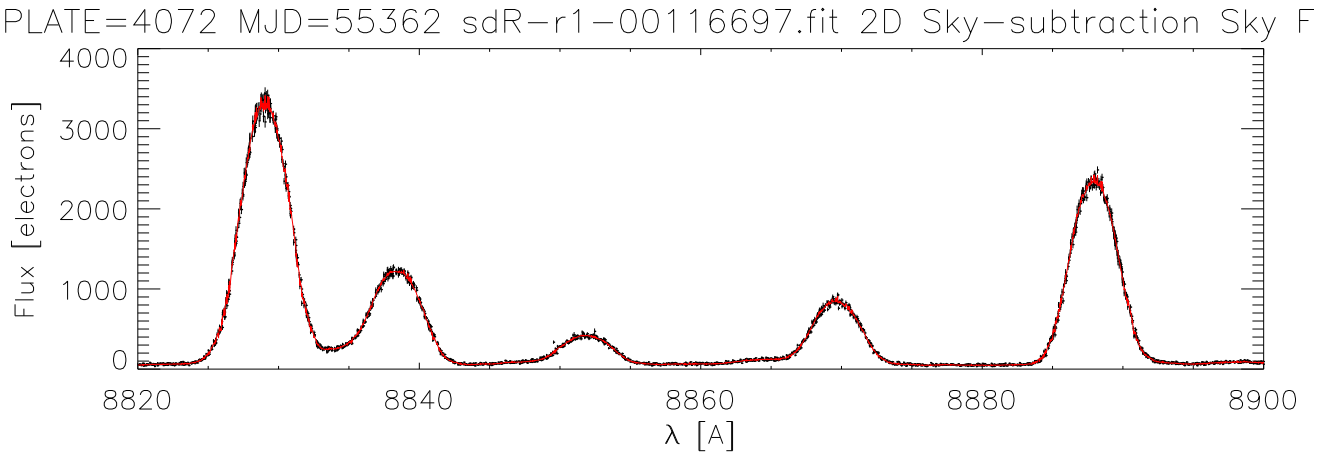

PLATE=4072 MJD=55362 sdR-r1-00116697.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

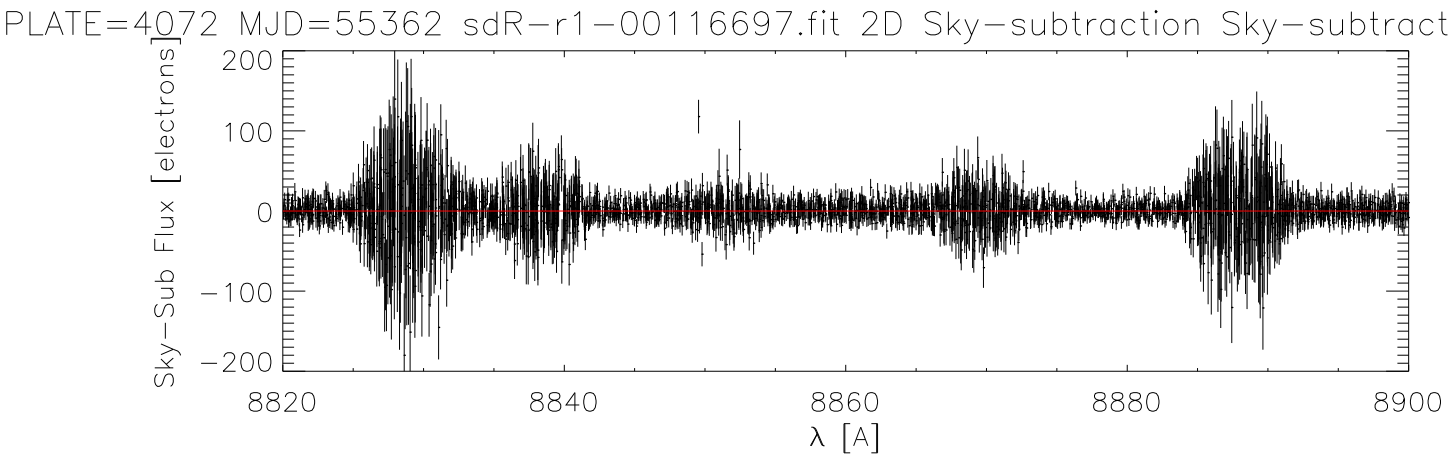
Number of sky fibers = 50



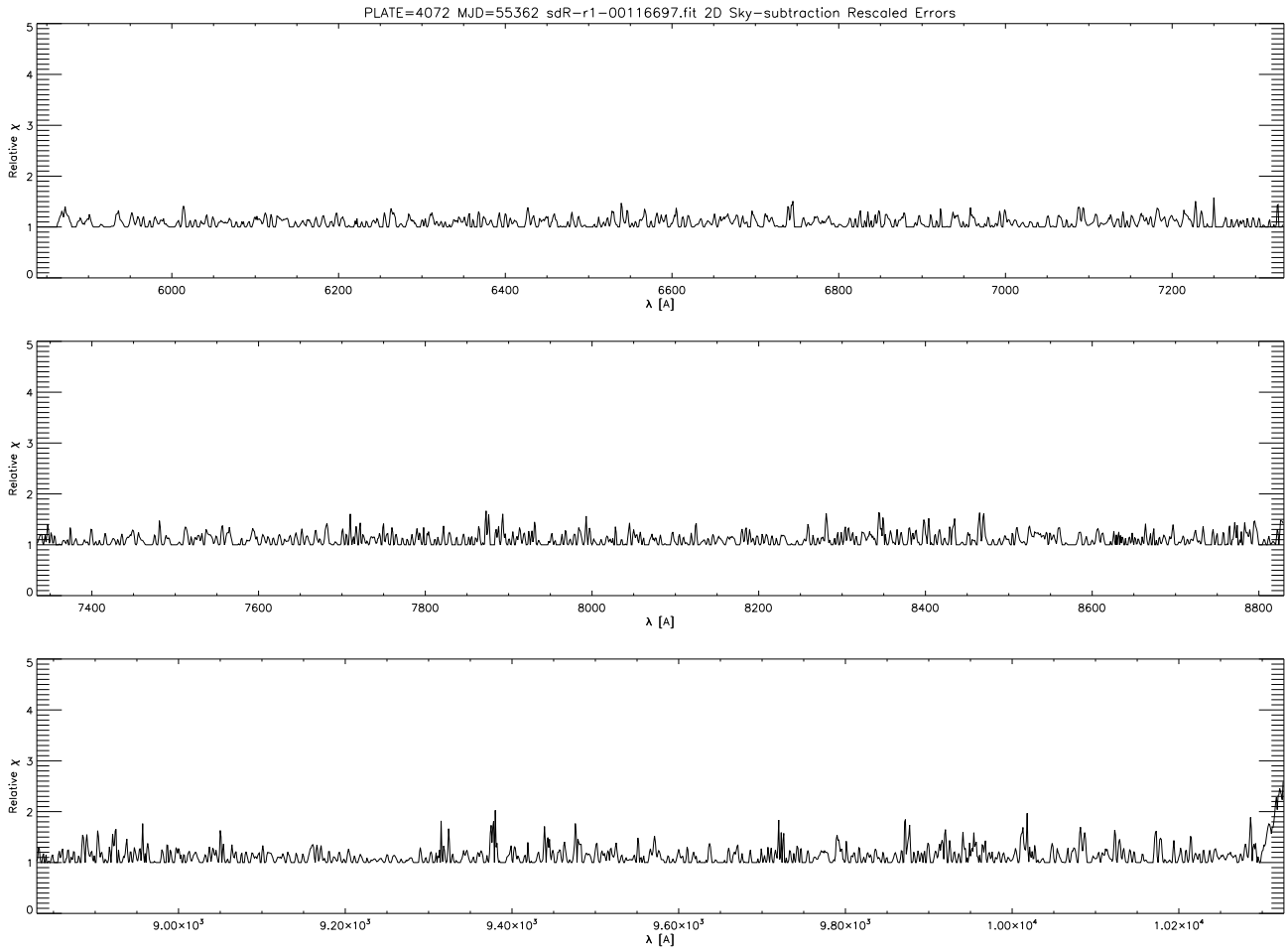

PLATE=4072 MJD=55362 sdR-r1-00116697.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Median |χ|
Fiber number

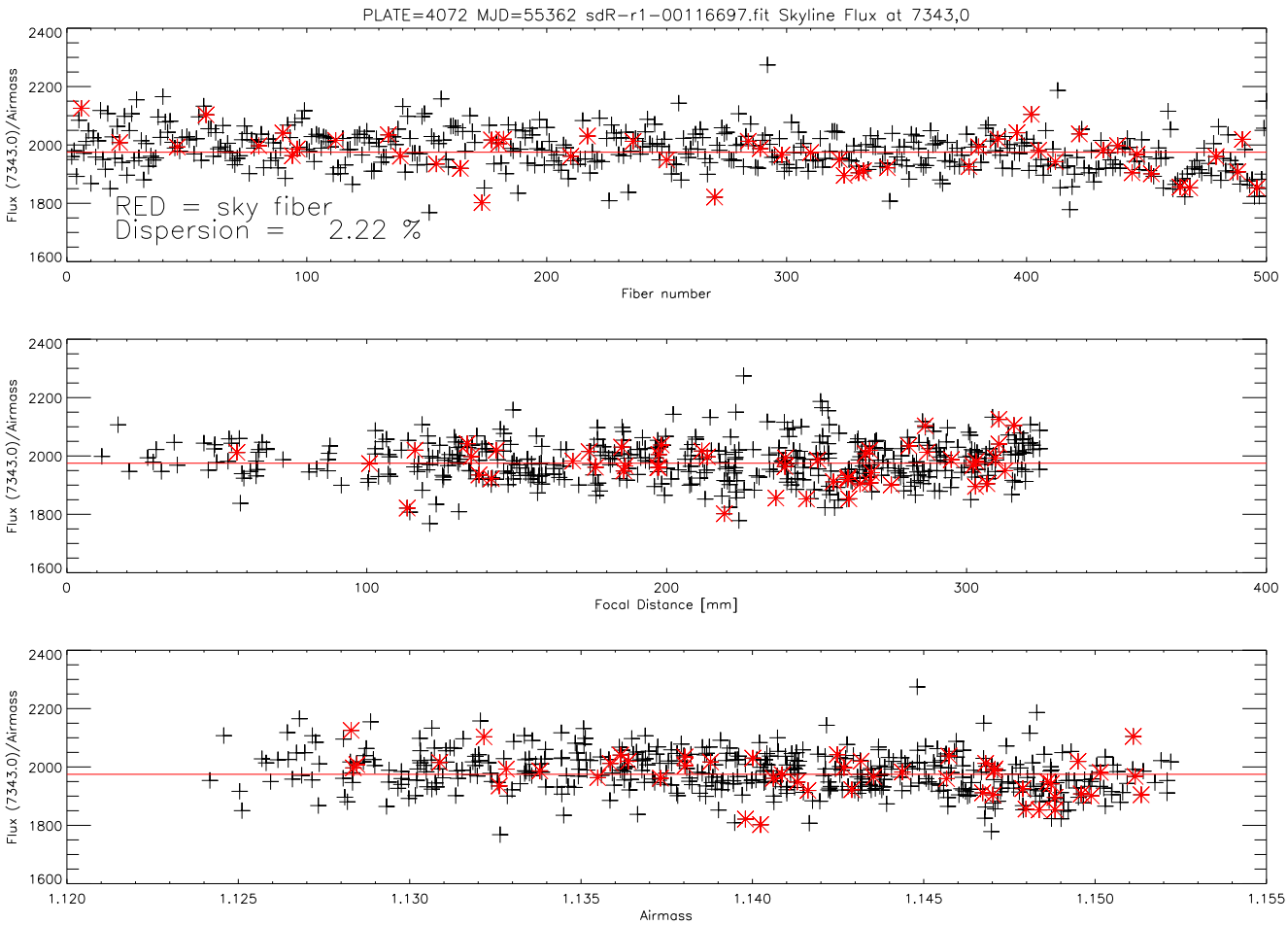

Median Sky-Sub Flux
Fiber number

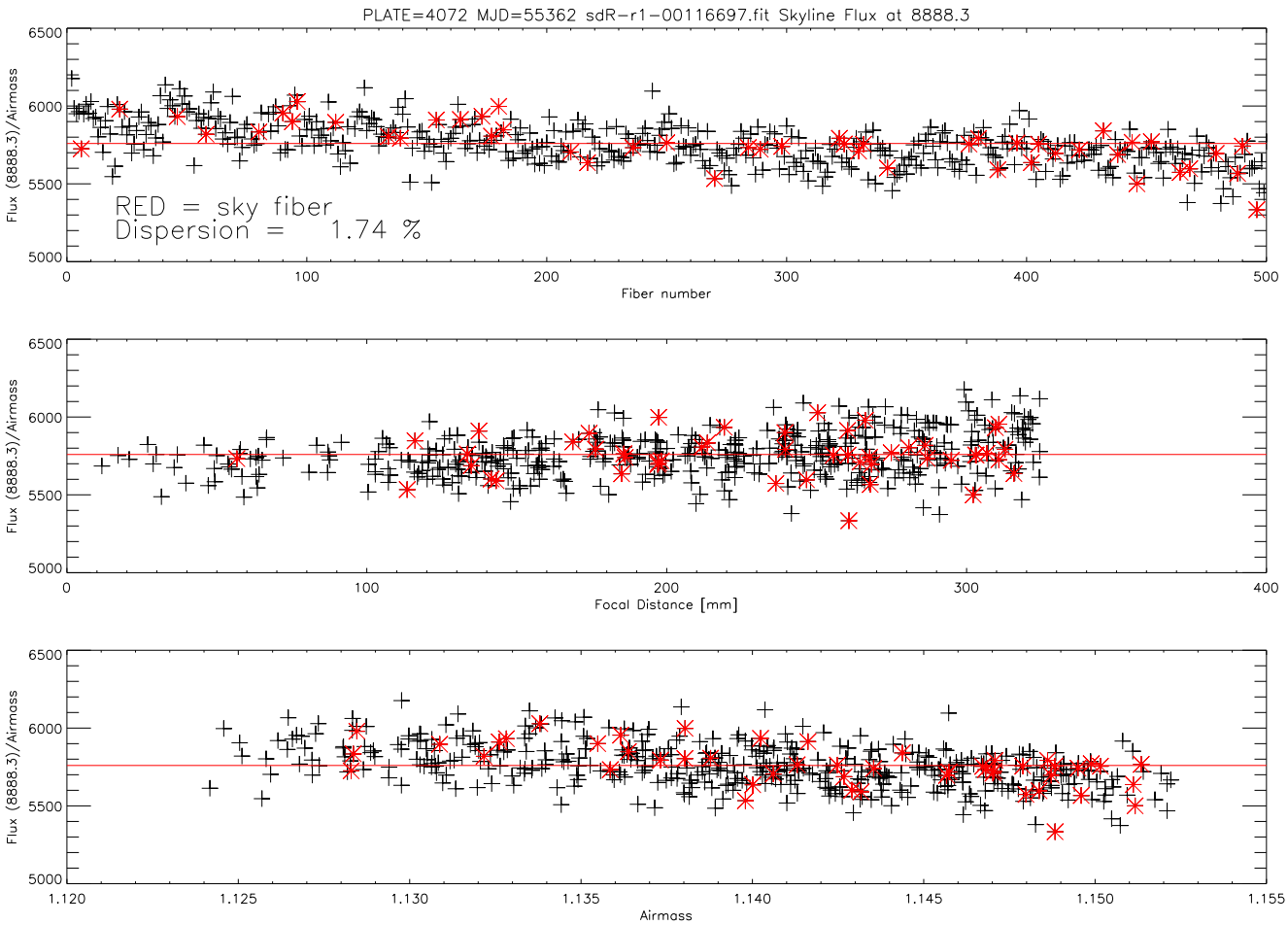

PLATE=4072 MJD=55362 sdR-r1-00116697.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]


PLATE=4072 MJD=55362 sdR-r1-00116697.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

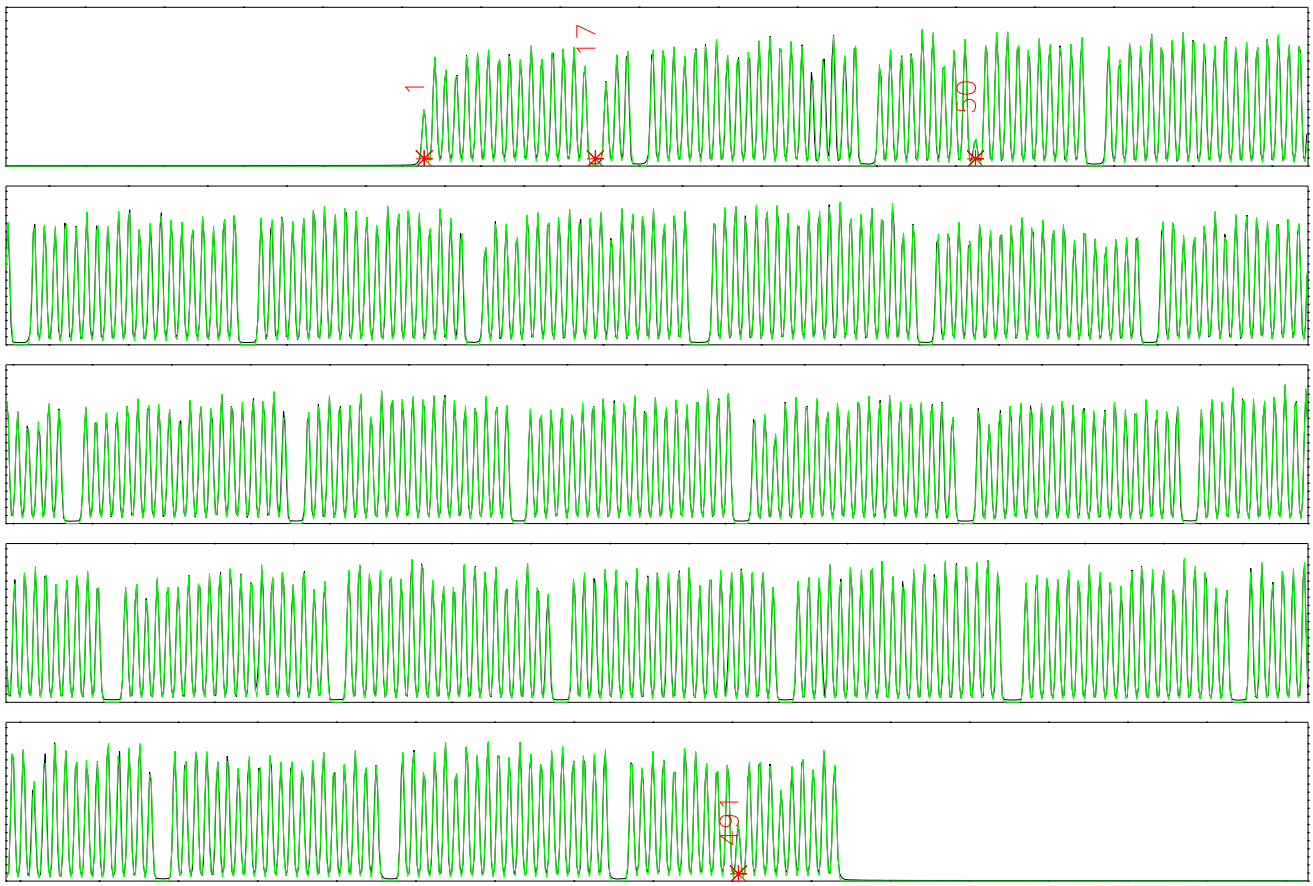
Number of sky fibers = 50



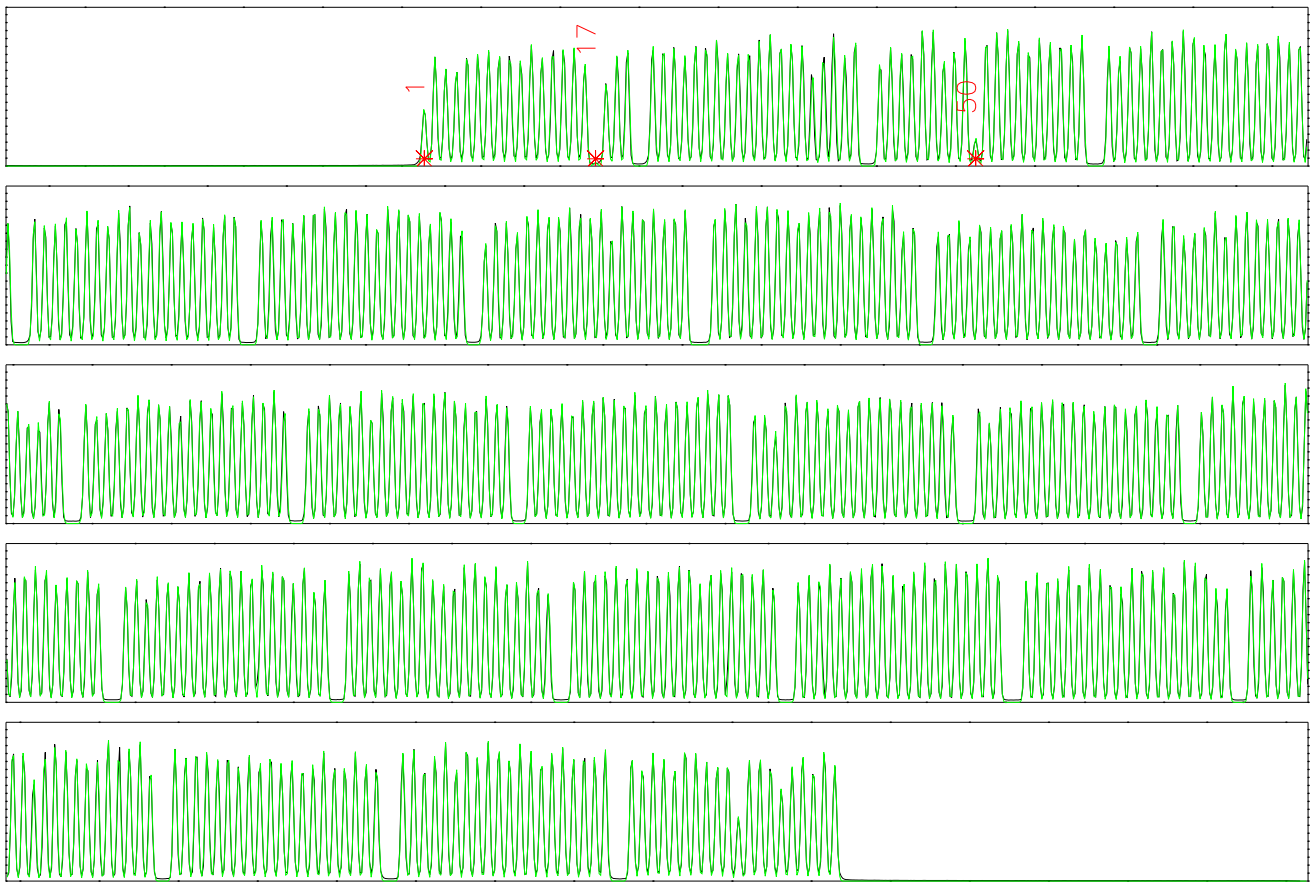

PLATE=4072 MJD=55362 sdR-r1-00116697.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.22 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

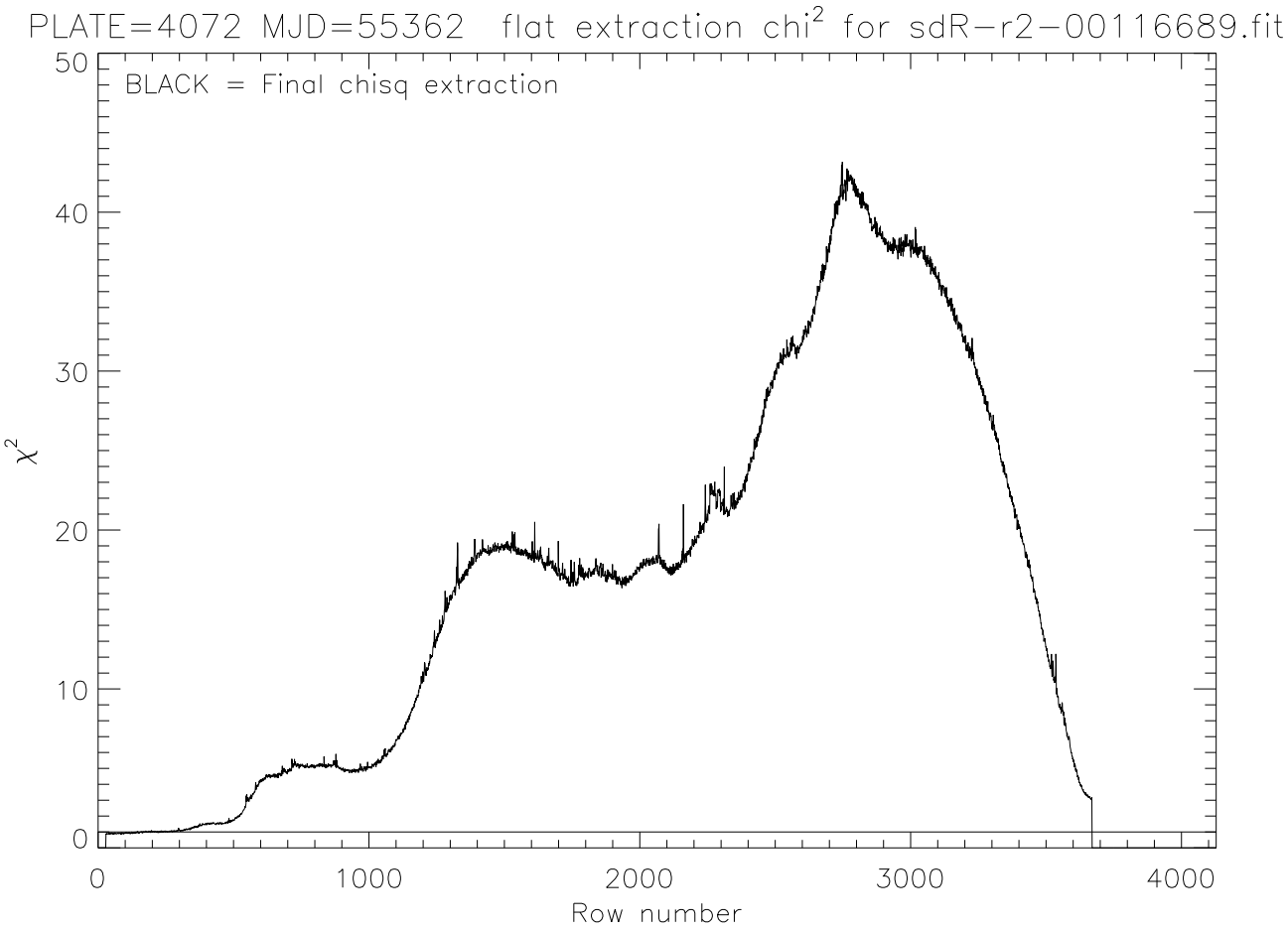

PLATE=4072 MJD=55362 sdR-r1-00116697.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.74 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

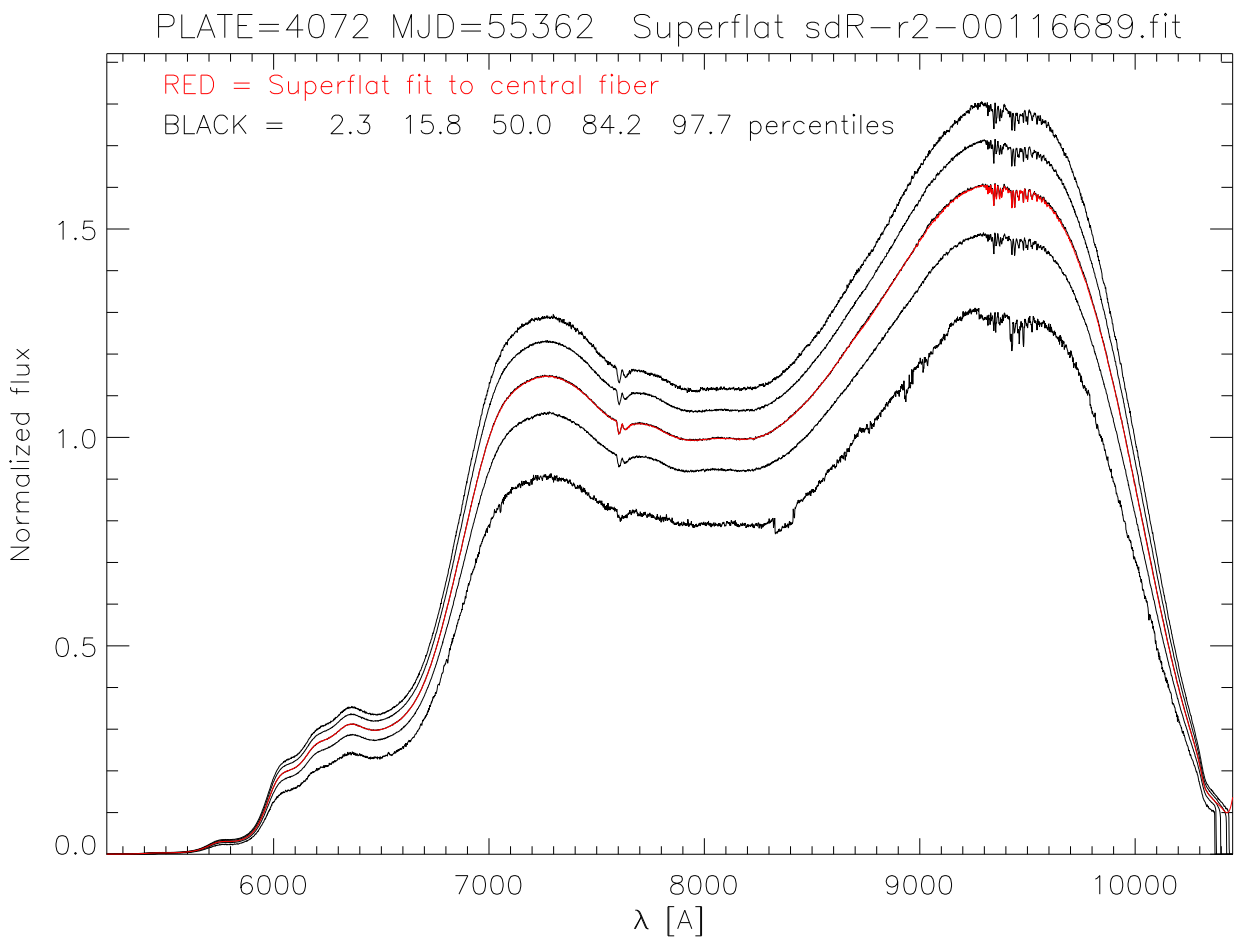
PLATE=4072 MJD=55362 Traces sdR-r2-00116689.fit

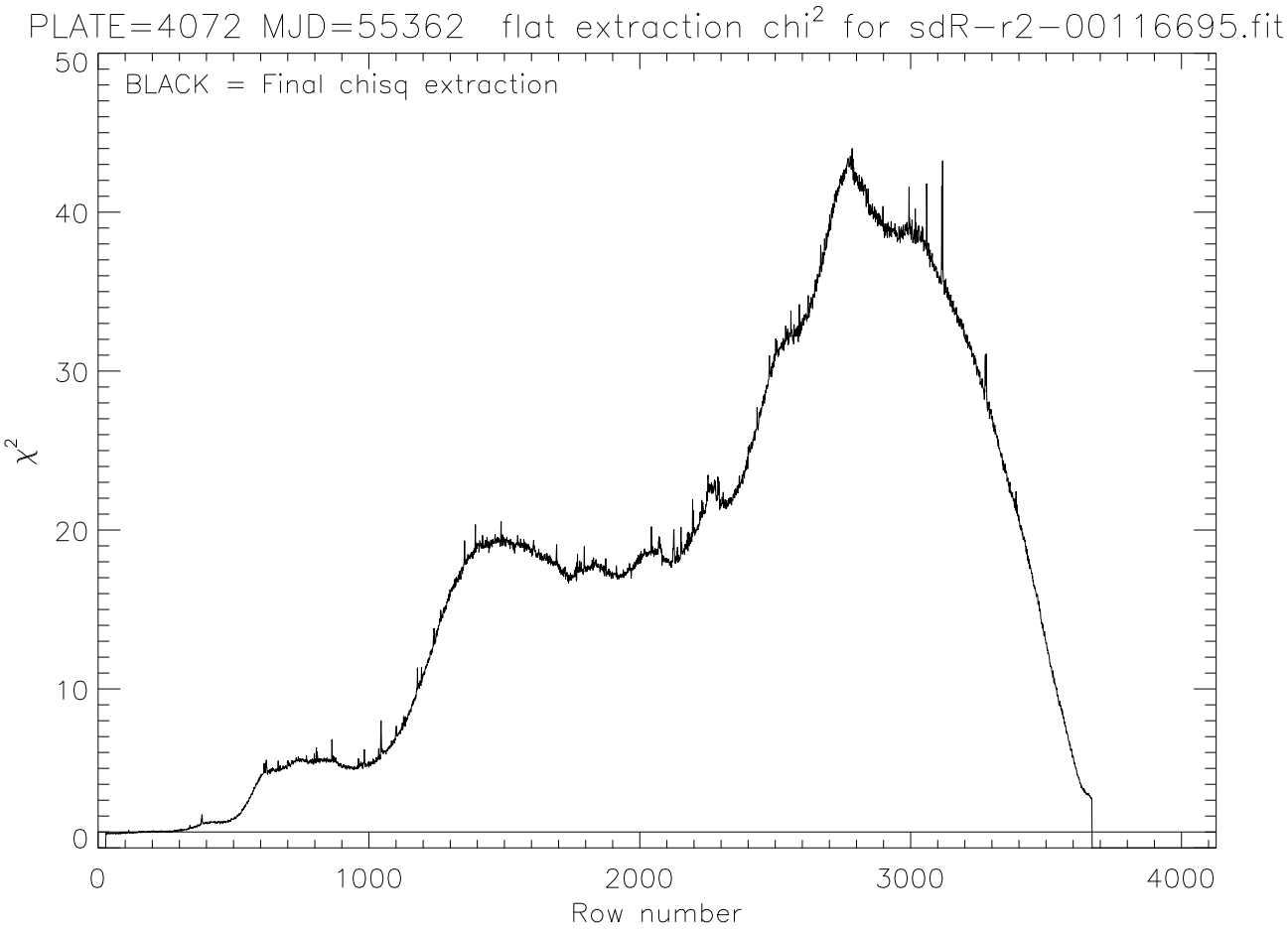


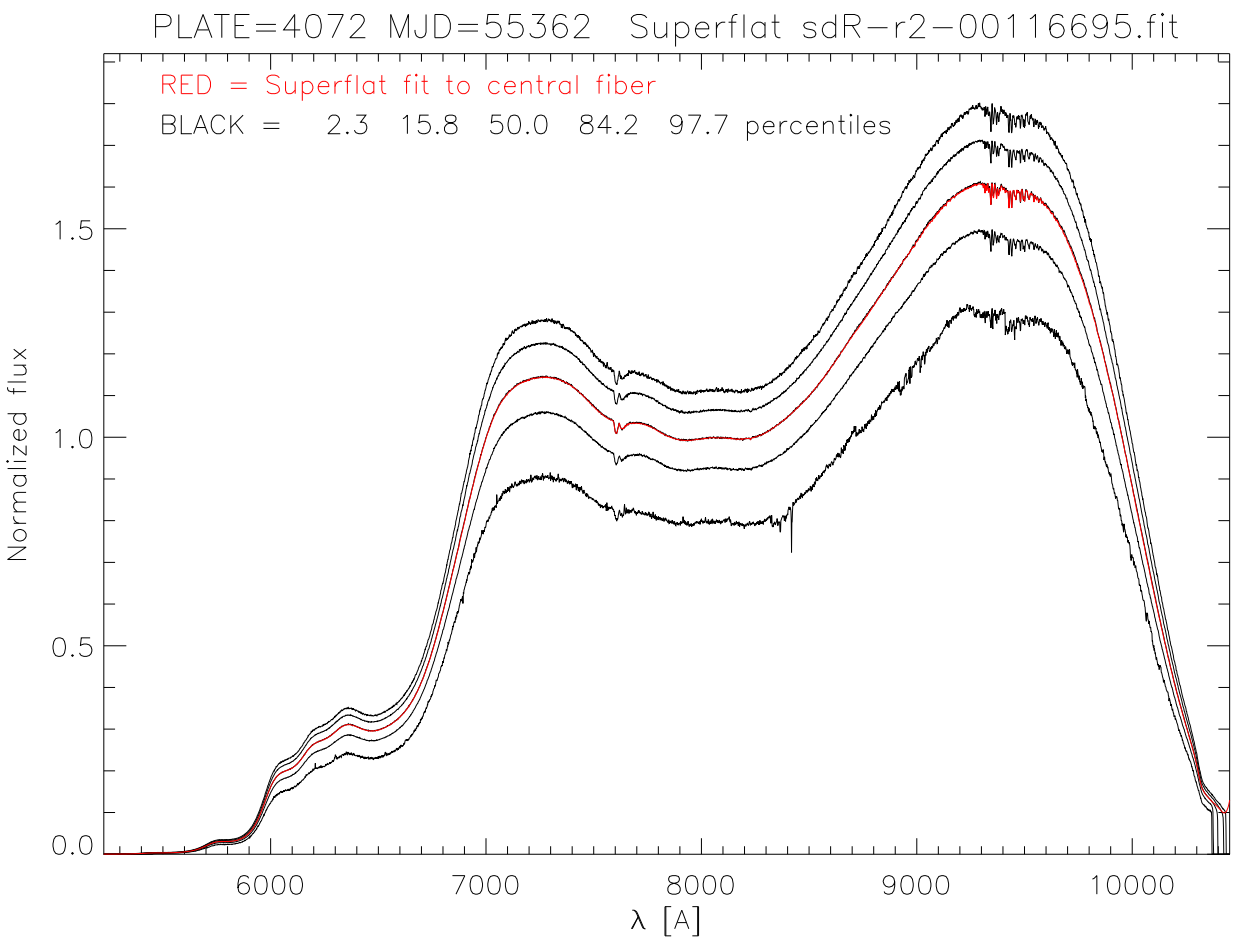
PLATE=4072 MJD=55362 Traces sdR-r2-00116695.fit

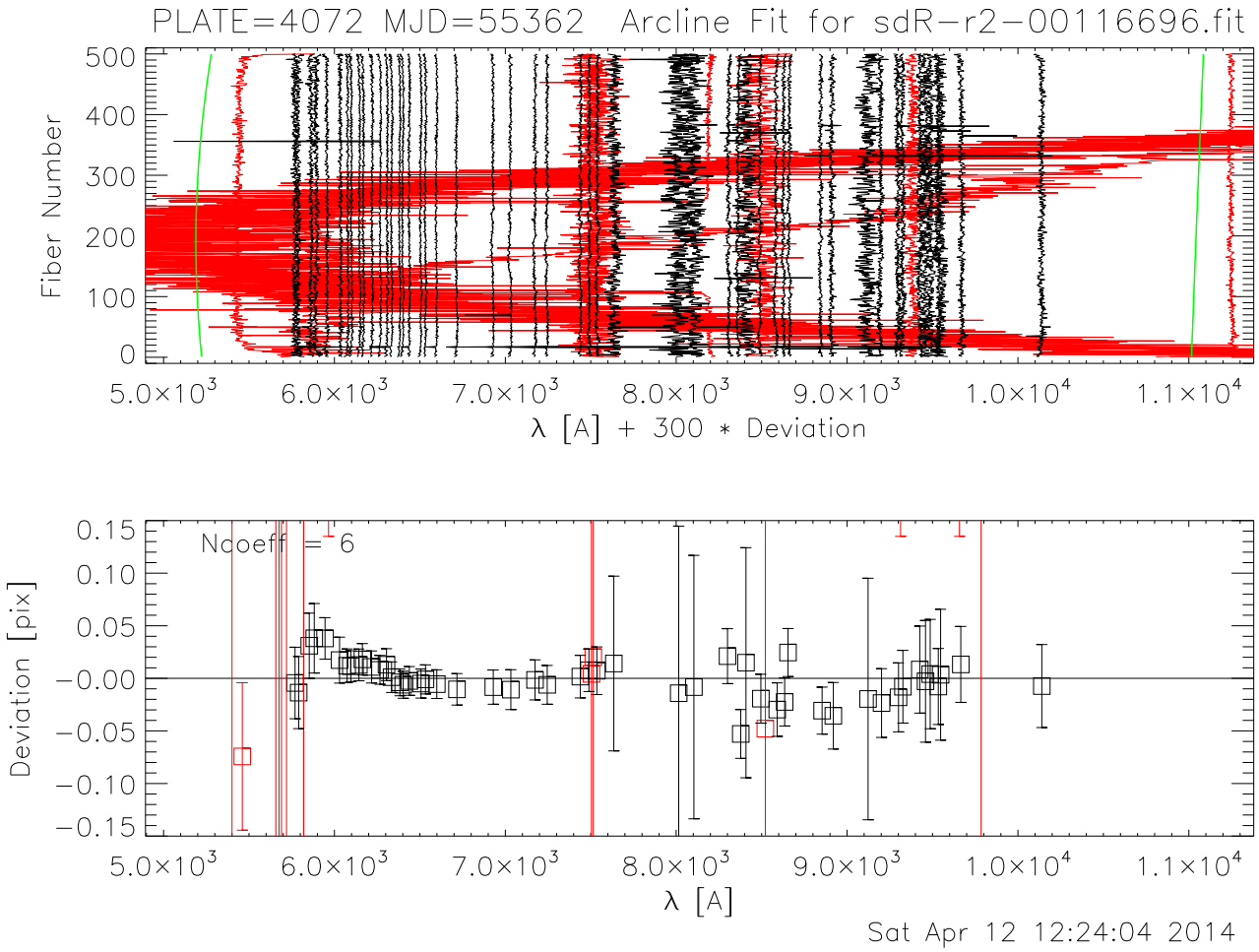


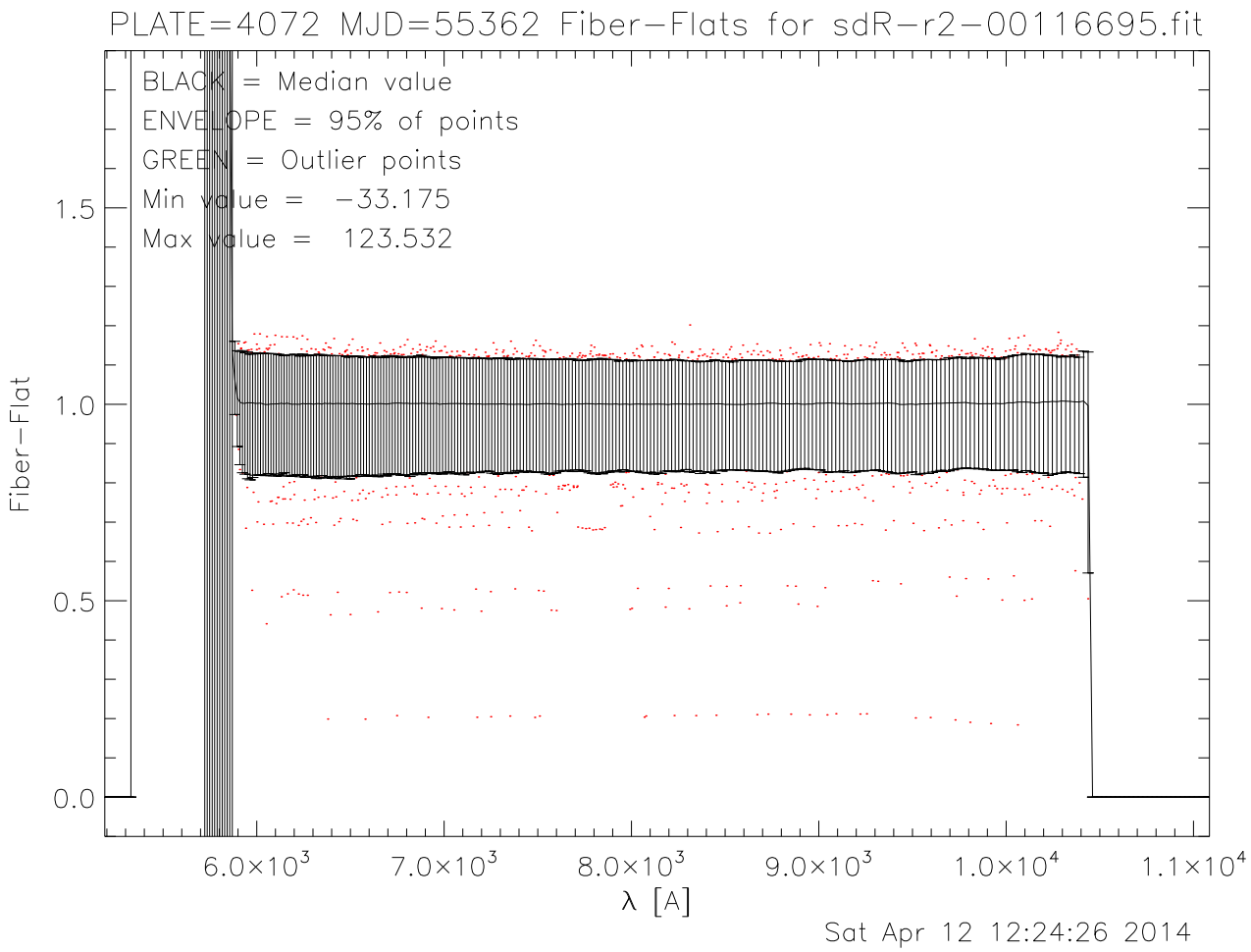

PLATE=4072 MJD=55362 flat extraction chi$^2$ for sdR−r2−00116689.fit
BLACK = Final chisq extraction
$\chi^2$
Row number
0
10
20
30
40
50
0
1000
2000
3000
4000

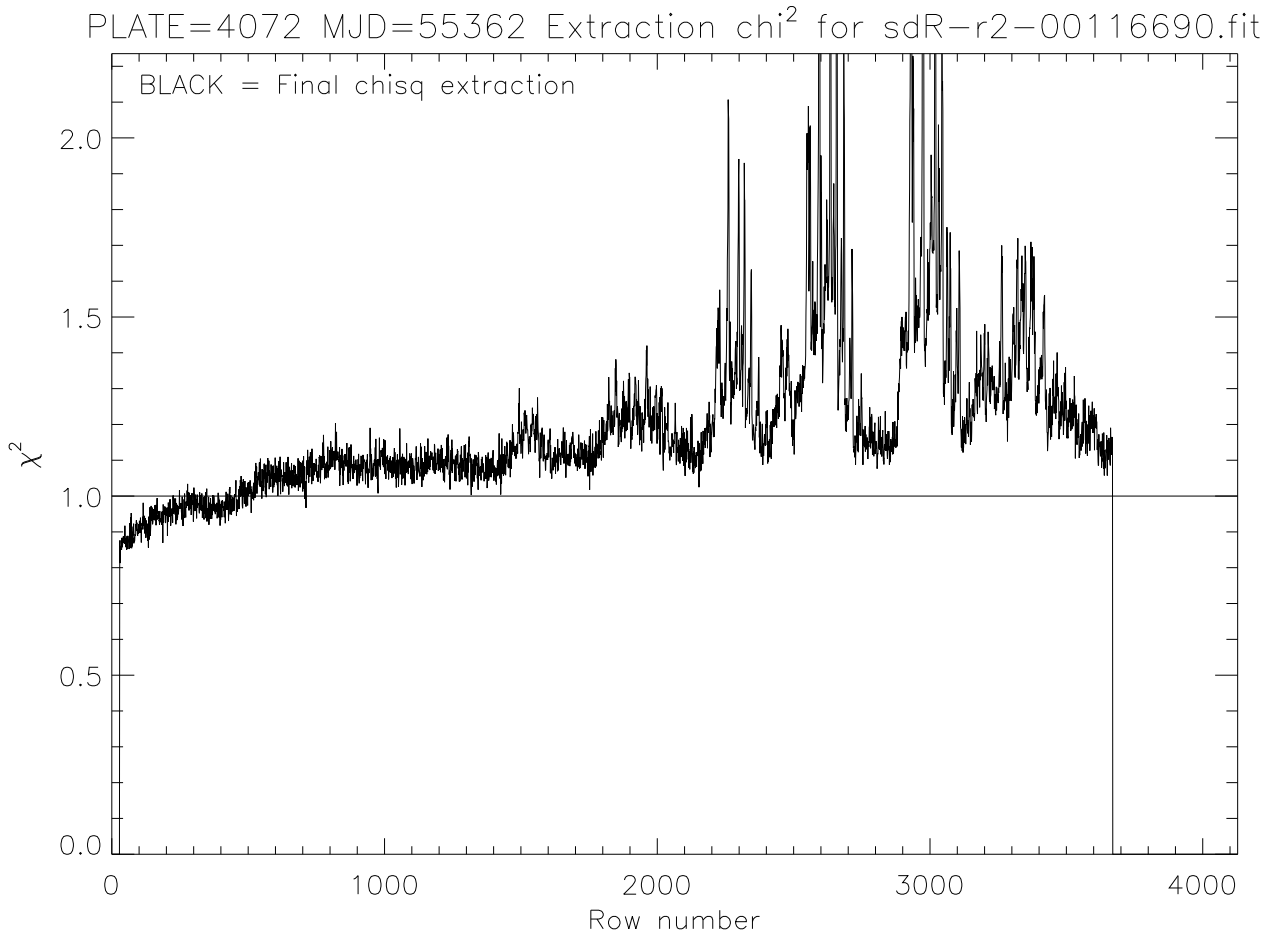

PLATE=4072 MJD=55362 Superflat sdR-r2-00116689.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
0.0
0.5
1.0
1.5
6000
7000
8000
9000
10000
λ [A]

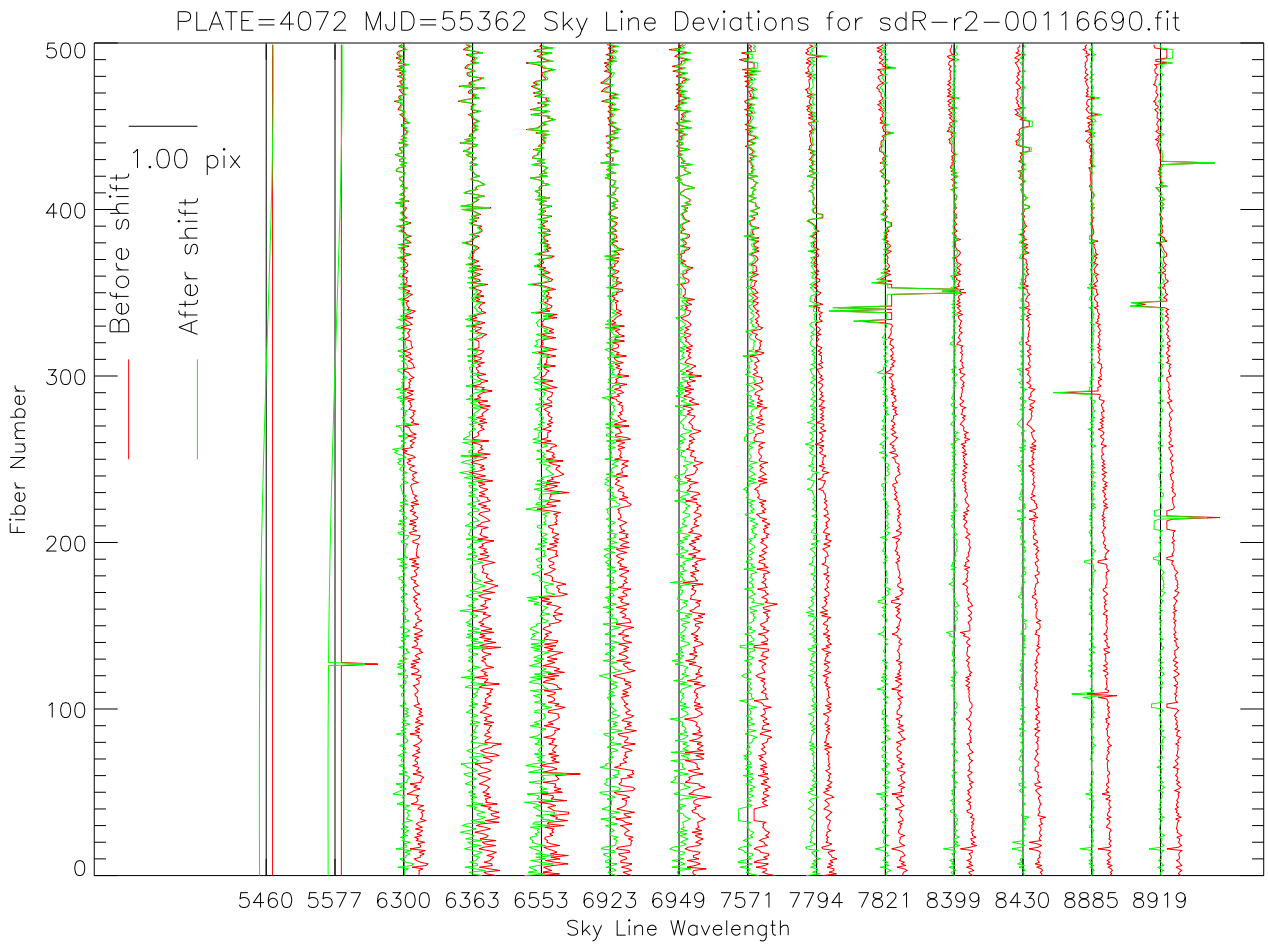

PLATE=4072 MJD=55362 flat extraction chi$^2$ for sdR−r2−00116695.fit
BLACK = Final chisq extraction
$\chi^2$
Row number
0
10
20
30
40
50
0
1000
2000
3000
4000

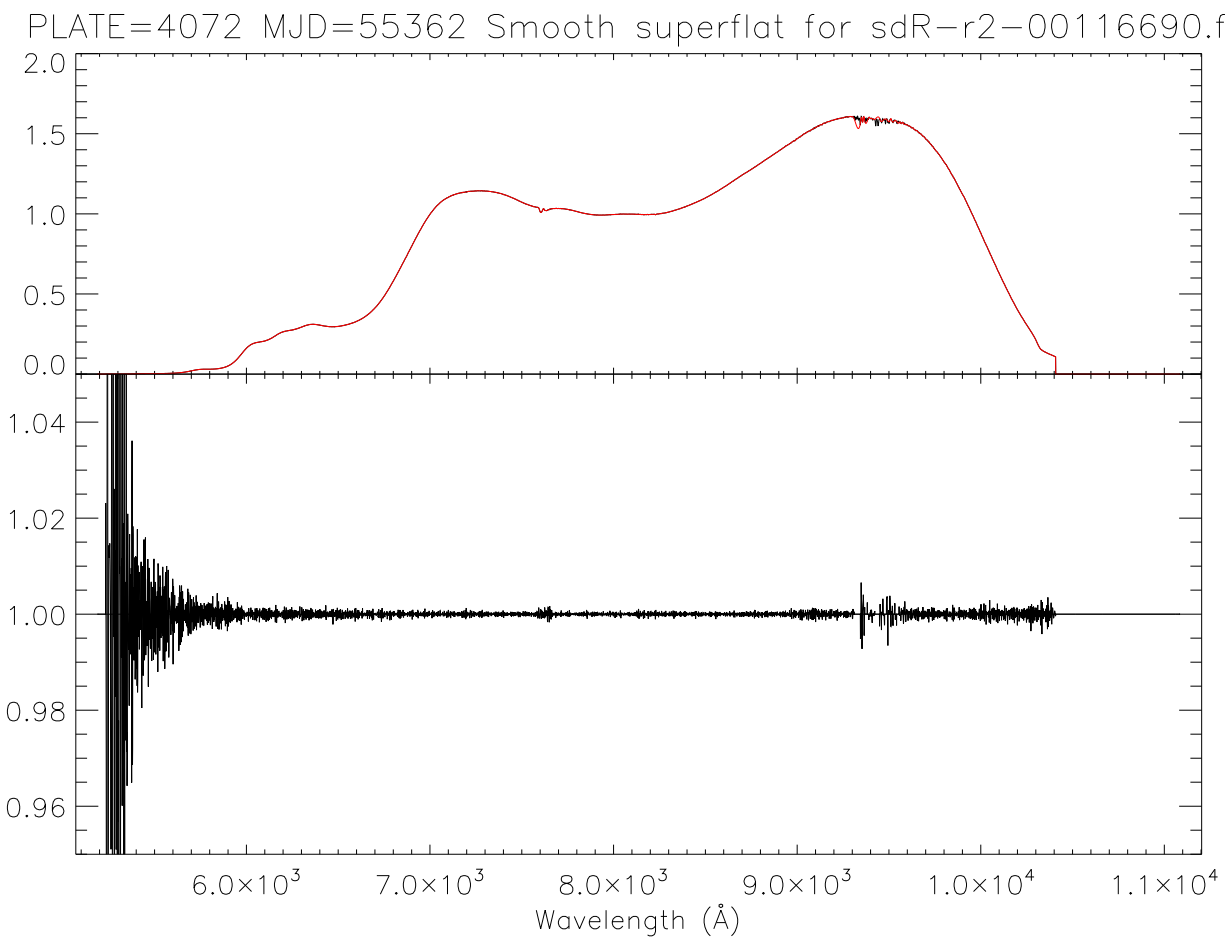

PLATE=4072 MJD=55362 Superflat sdR-r2-00116695.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
0.0
0.5
1.0
1.5
6000
7000
8000
9000
10000
λ [A]

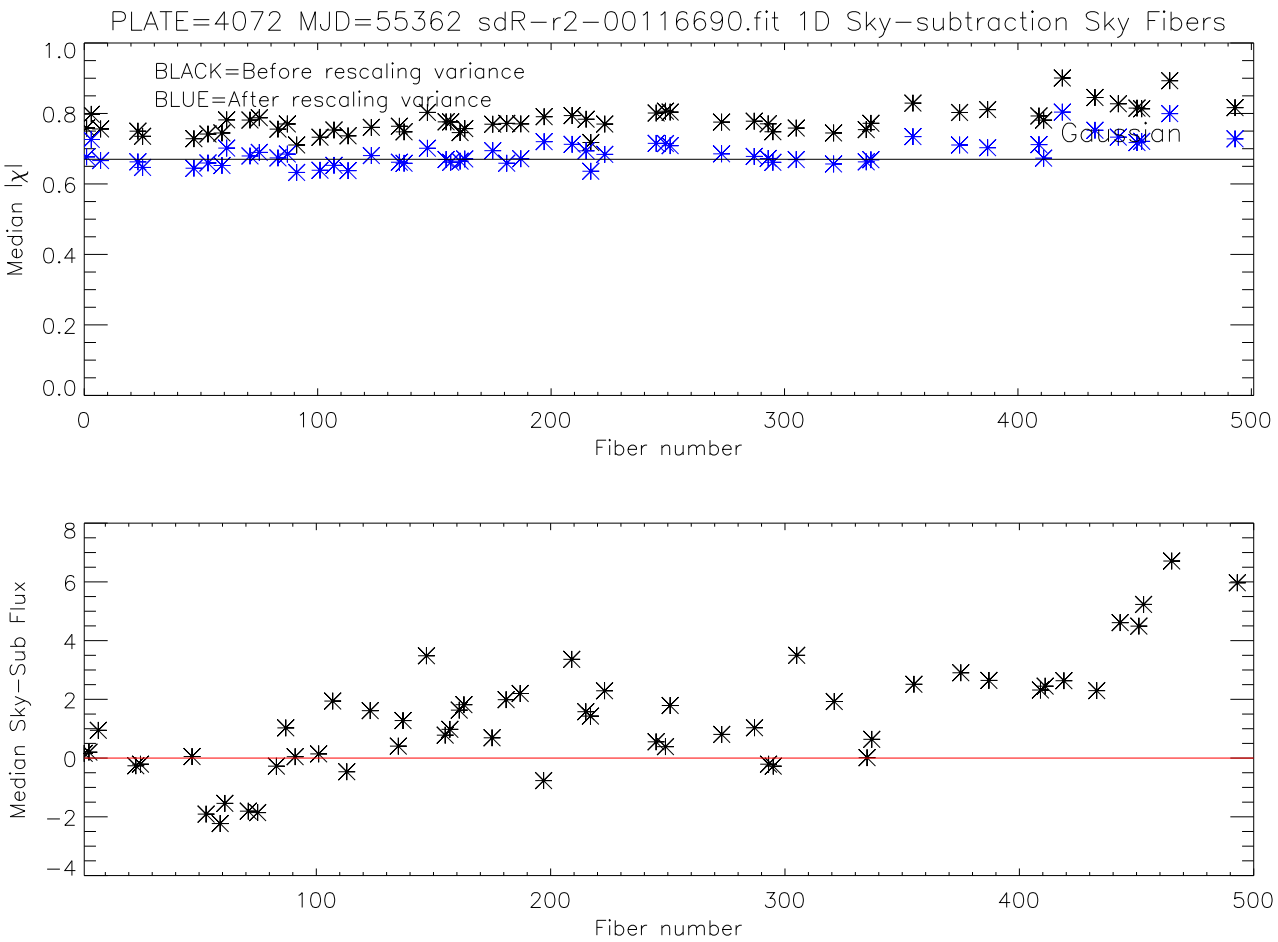

PLATE=4072 MJD=55362 Arcline Fit for sdR-r2-00116696.fit
Fiber Number
500
400
300
200
100
0
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A] + 300 * Deviation
Ncoeff = 6
Deviation [pix]
0.15
0.10
0.05
−0.00
−0.05
−0.10
−0.15
λ [A]
Sat Apr 12 12:24:04 2014

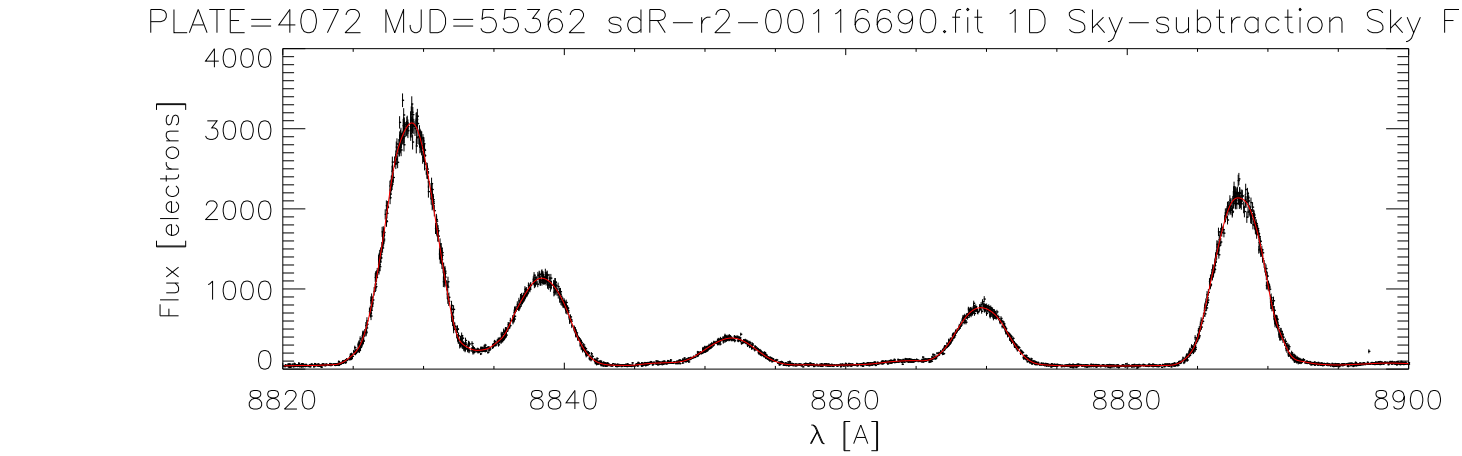

PLATE=4072 MJD=55362 Fiber−Flats for sdR−r2−00116695.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −33.175
Max value = 123.532
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Sat Apr 12 12:24:26 2014

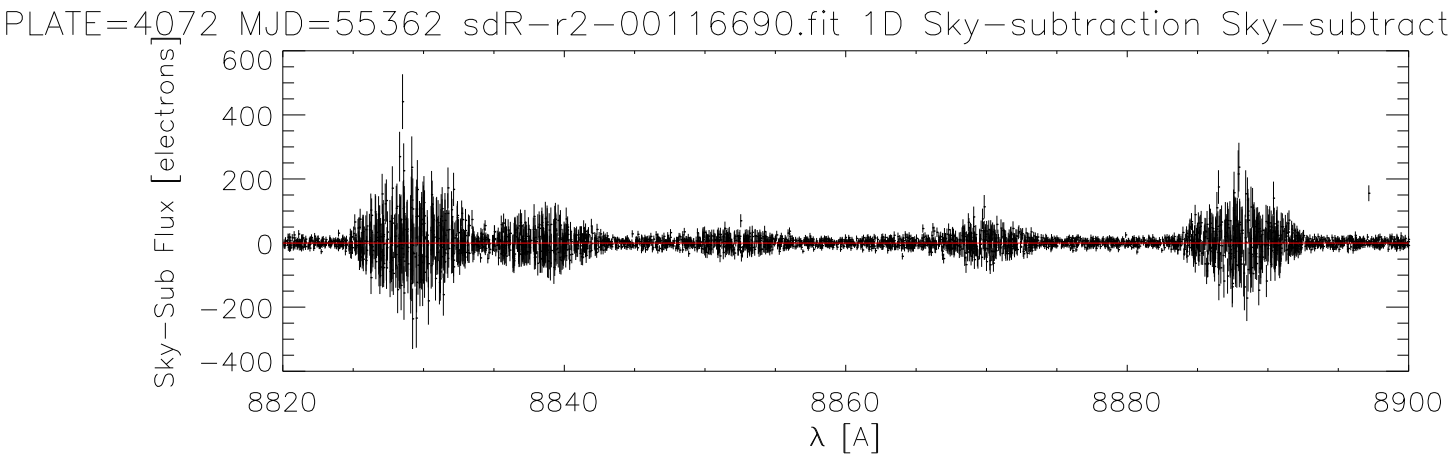

PLATE=4072 MJD=55362 Extraction chi$^2$ for sdR−r2−00116690.fit
BLACK = Final chisq extraction
$\chi^2$
2.0
1.5
1.0
0.5
0.0
0
1000
2000
3000
4000
Row number


PLATE=4072 MJD=55362 Sky Line Deviations for sdR-r2-00116690.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

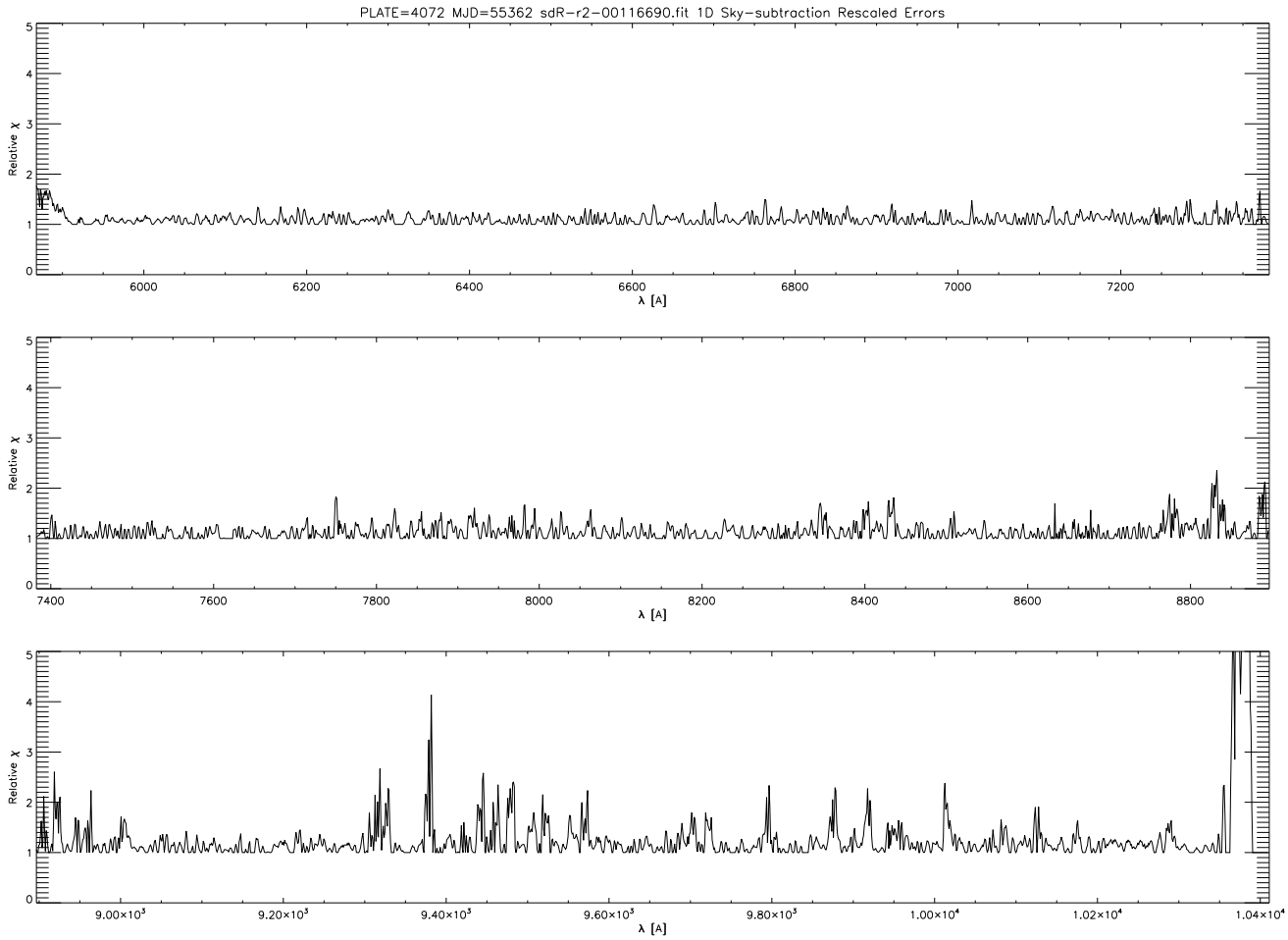

PLATE=4072 MJD=55362 Smooth superflat for sdR-r2-00116690.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

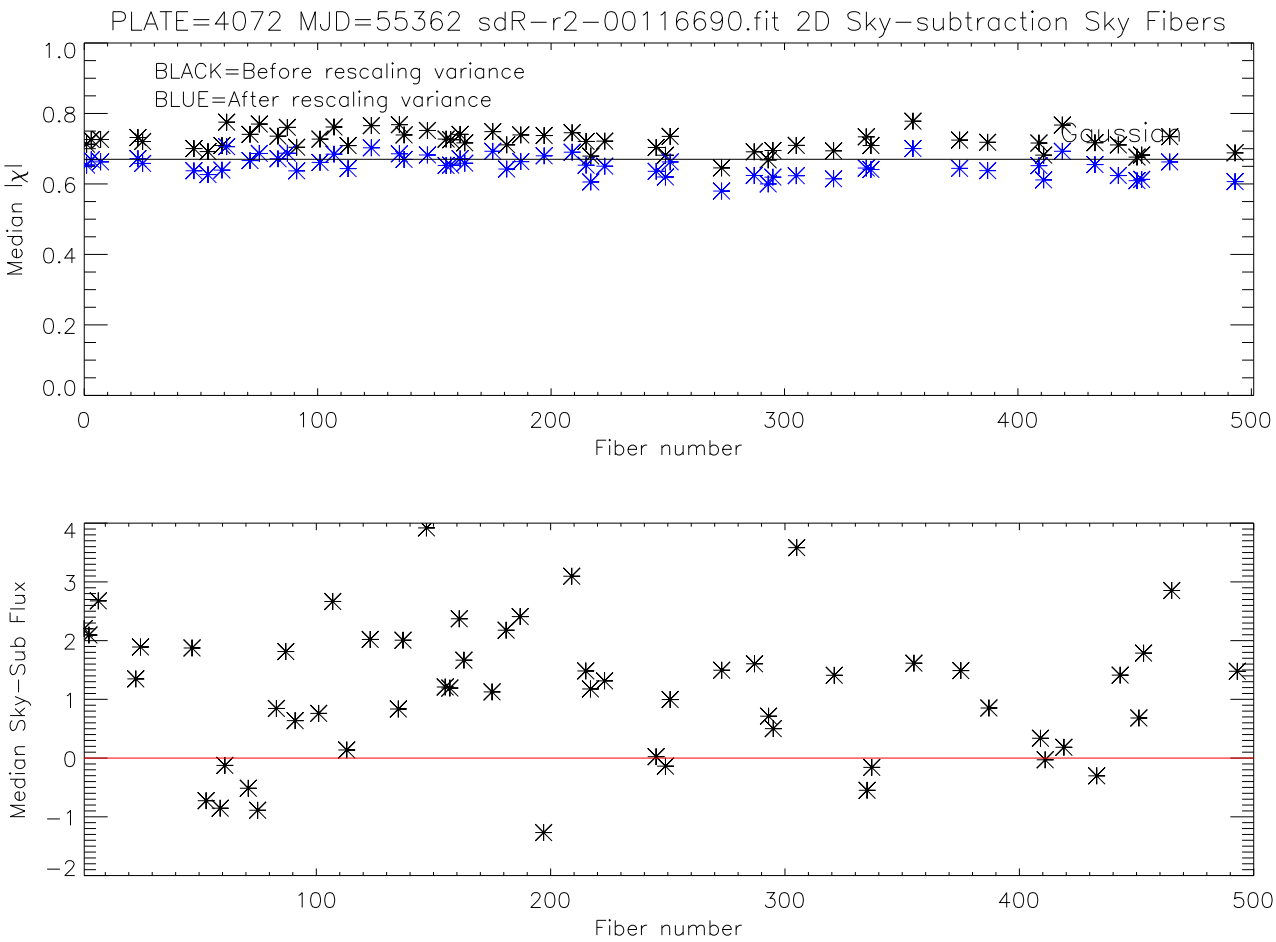

PLATE=4072 MJD=55362 sdR-r2-00116690.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number


PLATE=4072 MJD=55362 sdR-r2-00116690.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

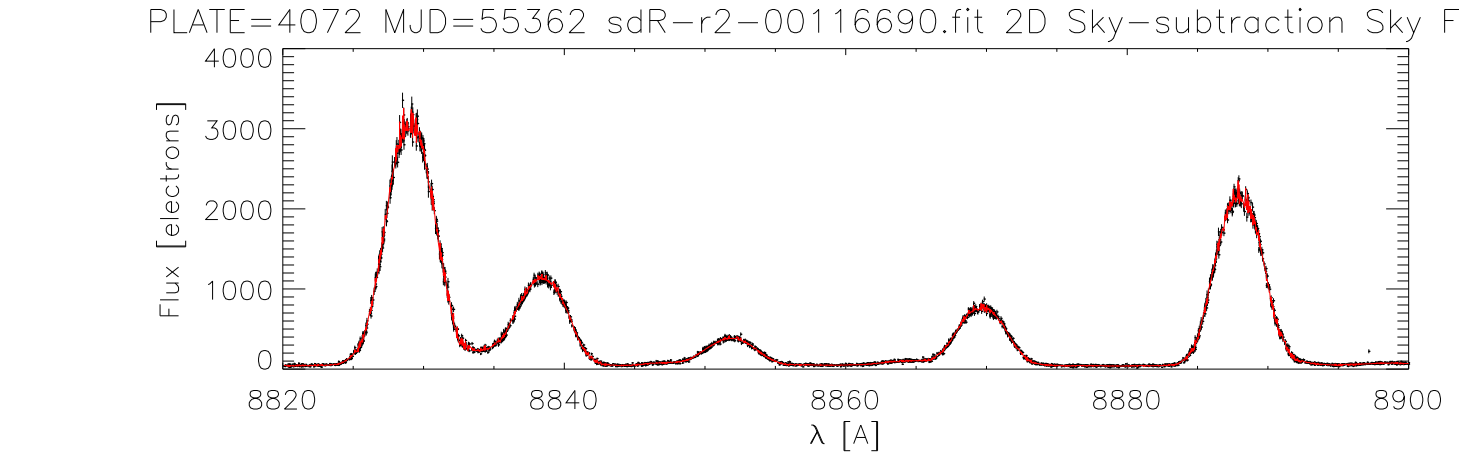

PLATE=4072 MJD=55362 sdR-r2-00116690.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

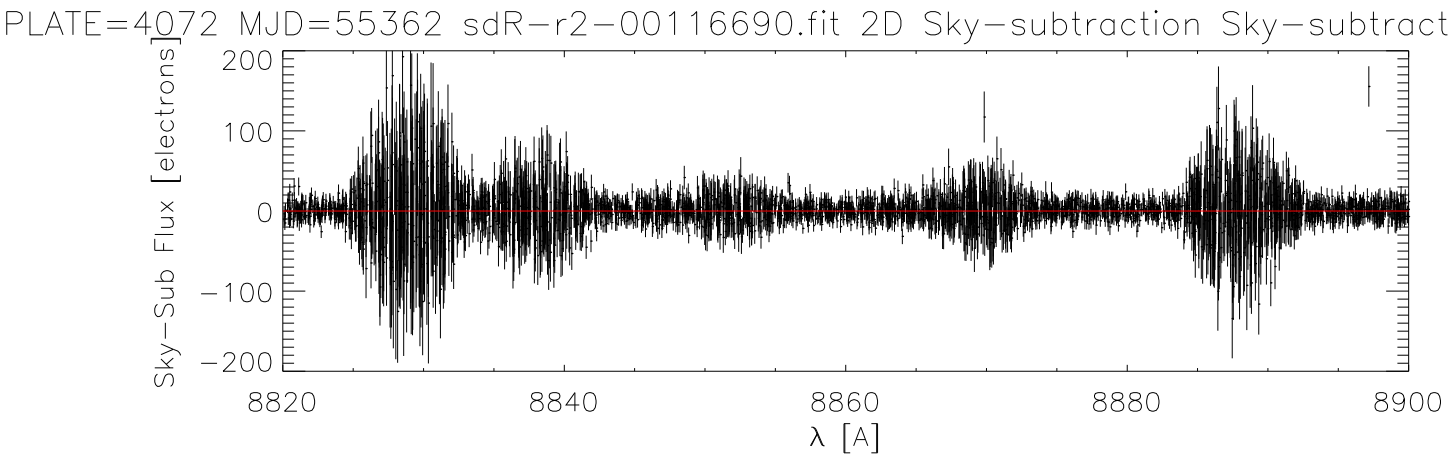
Number of sky fibers = 56



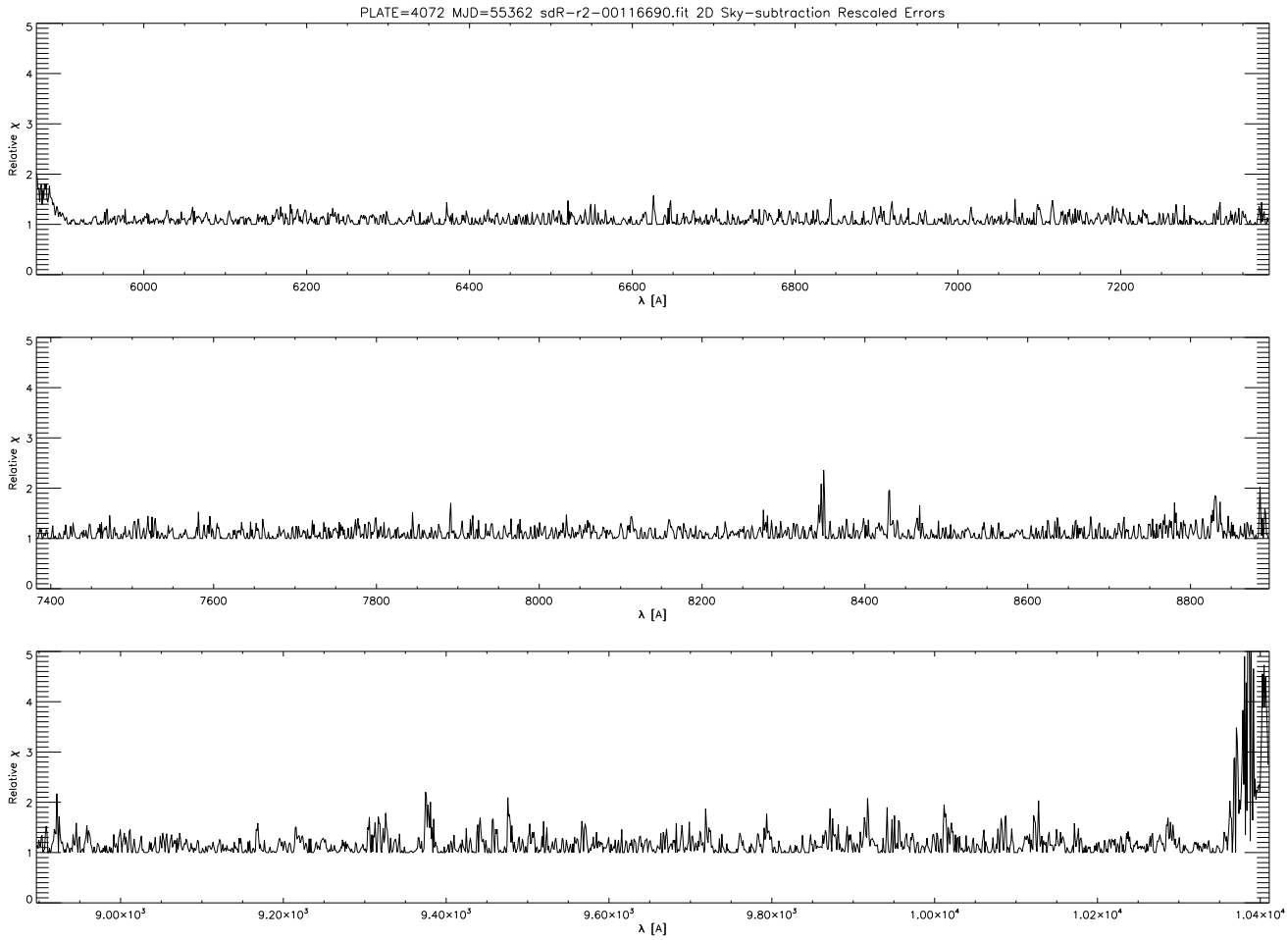

PLATE=4072 MJD=55362 sdR-r2-00116690.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number

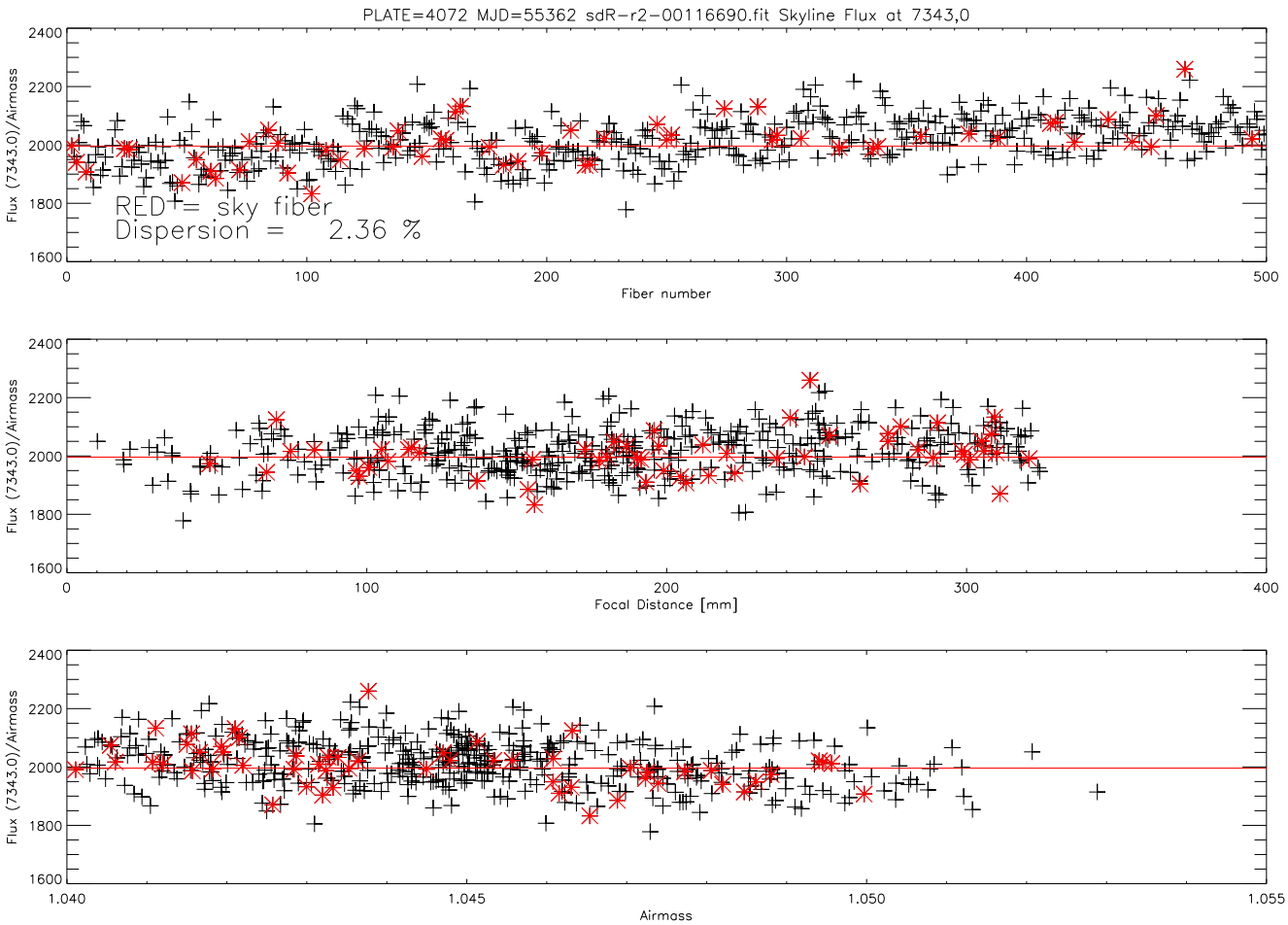

Median Sky-Sub Flux
Fiber number

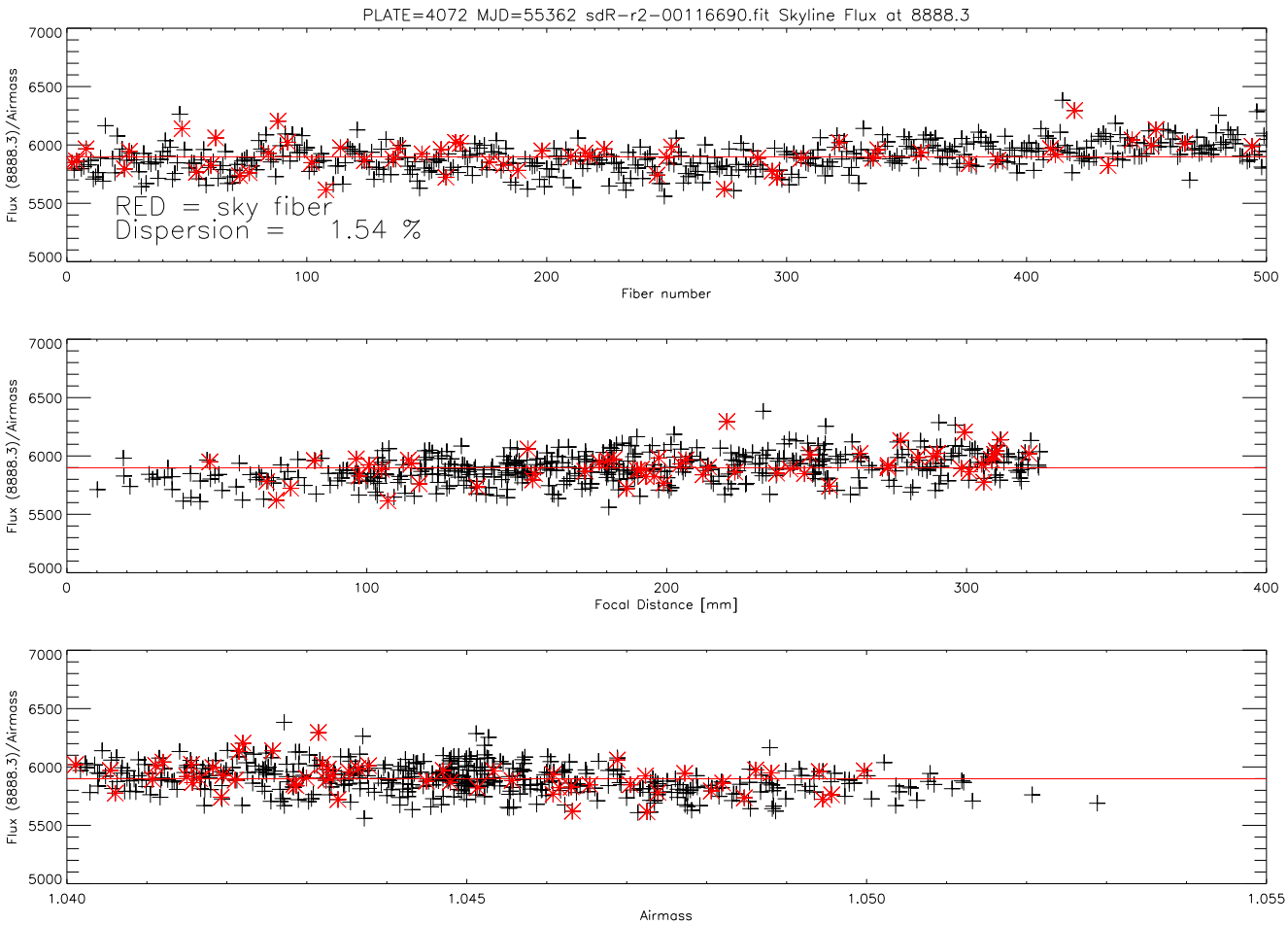

PLATE=4072 MJD=55362 sdR-r2-00116690.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

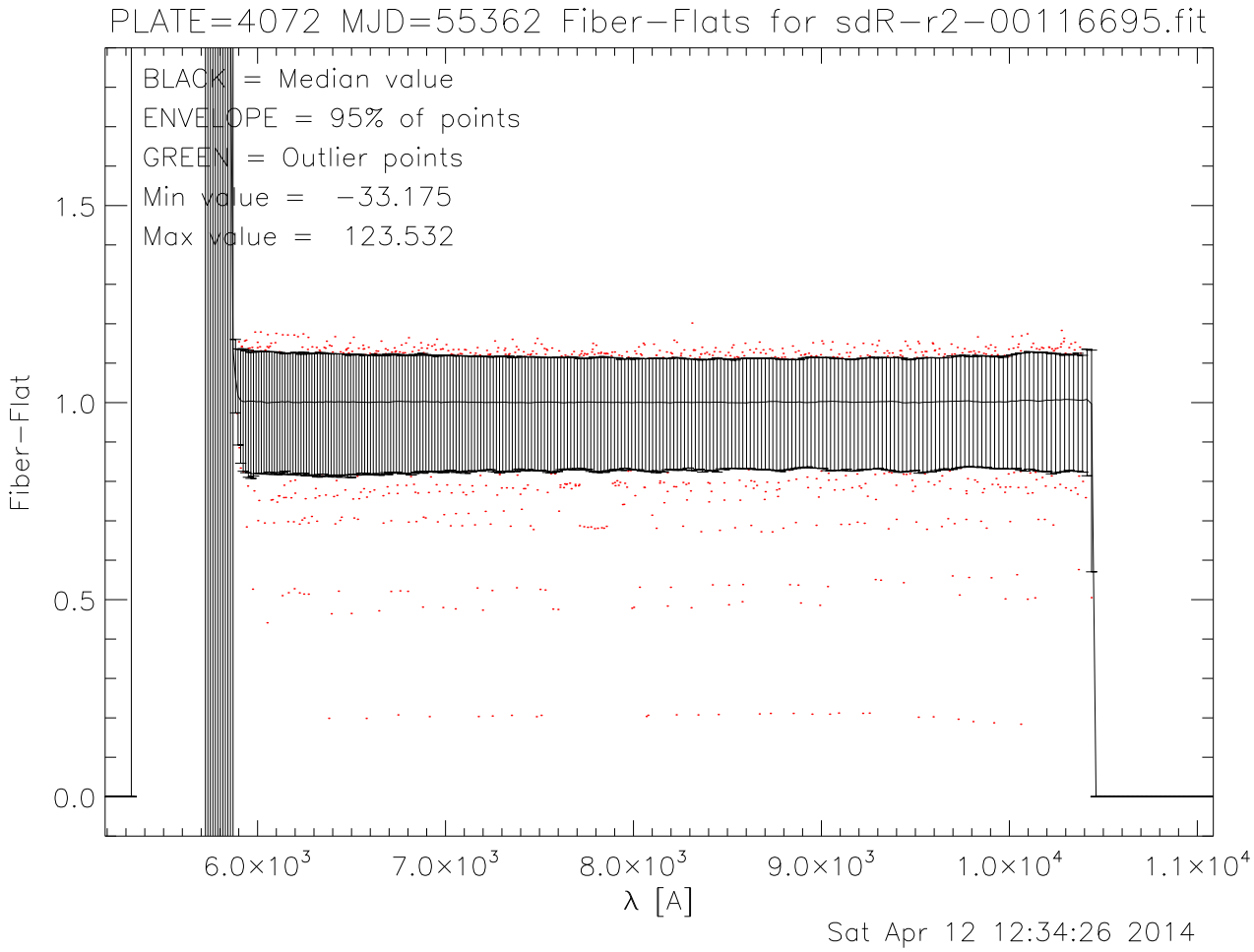

PLATE=4072 MJD=55362 sdR-r2-00116690.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

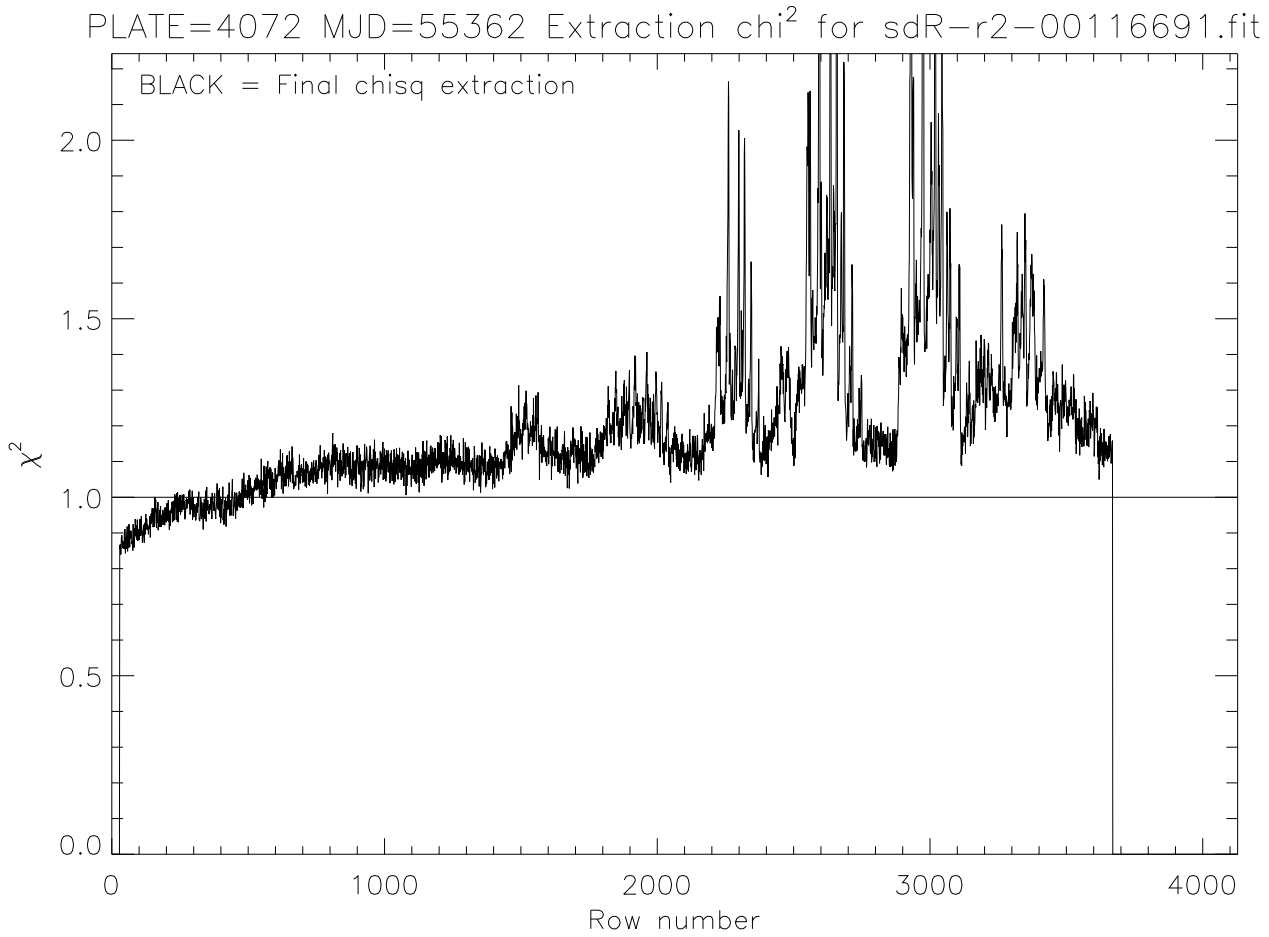
Number of sky fibers = 56

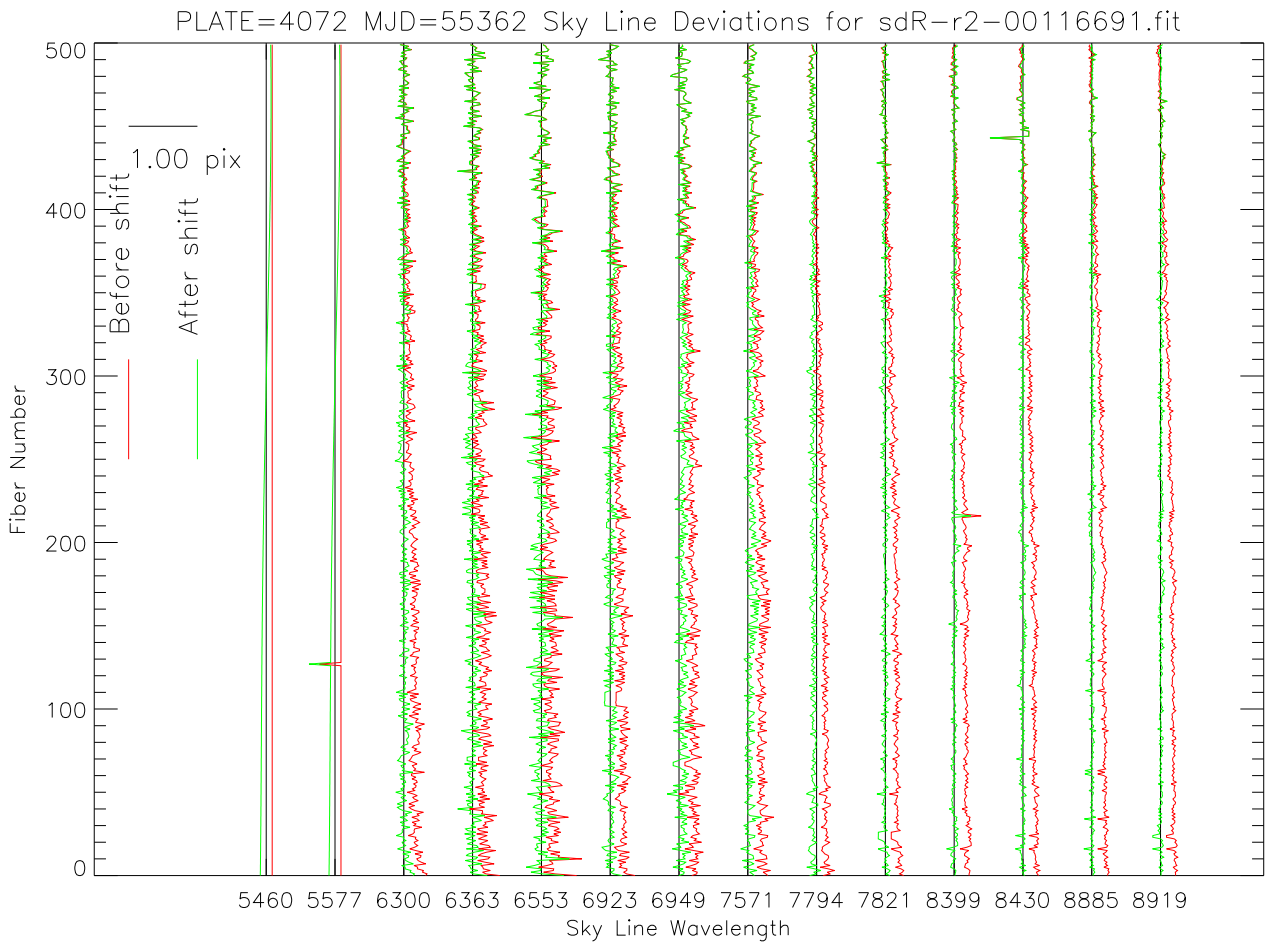


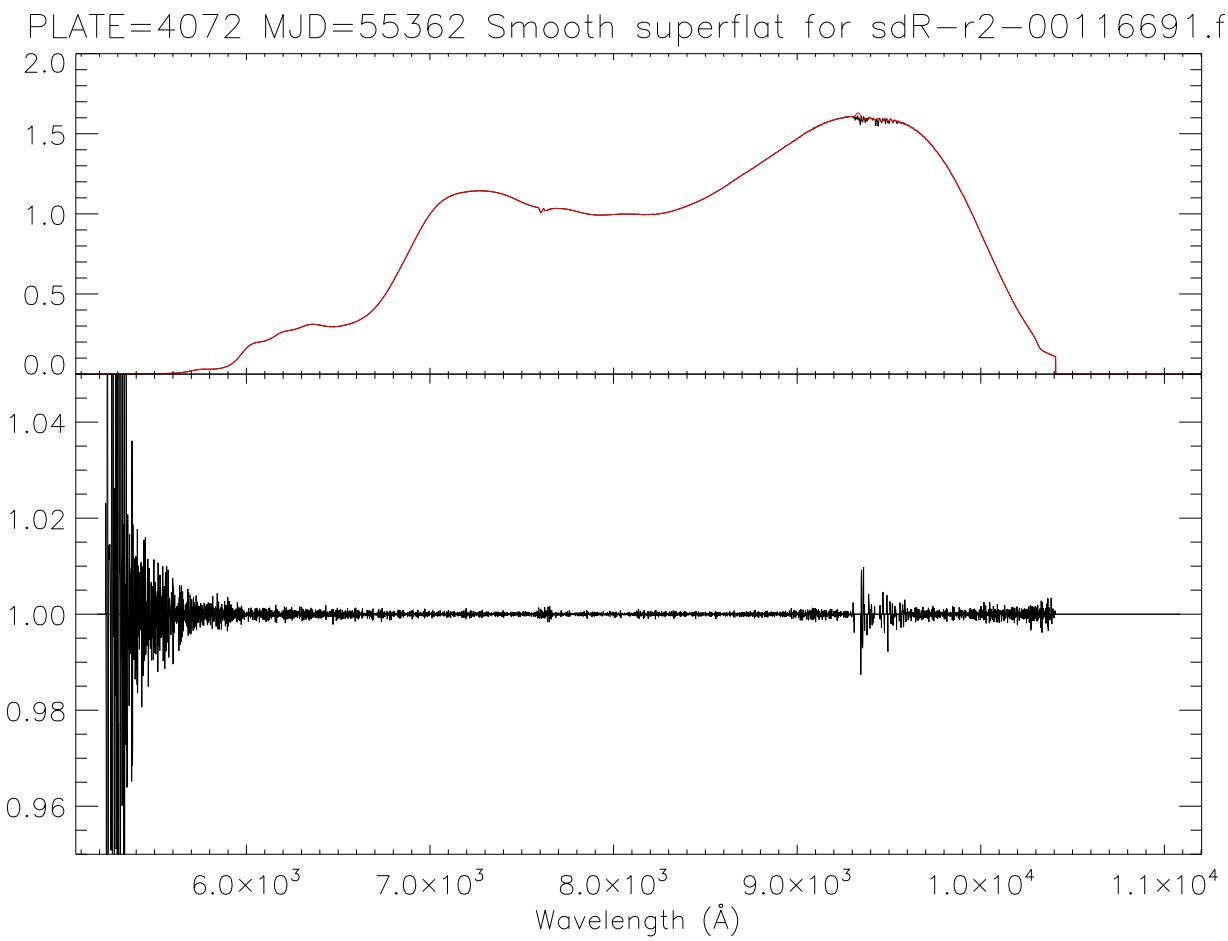

PLATE=4072 MJD=55362 sdR-r2-00116690.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED= sky fiber
Dispersion = 2.36 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

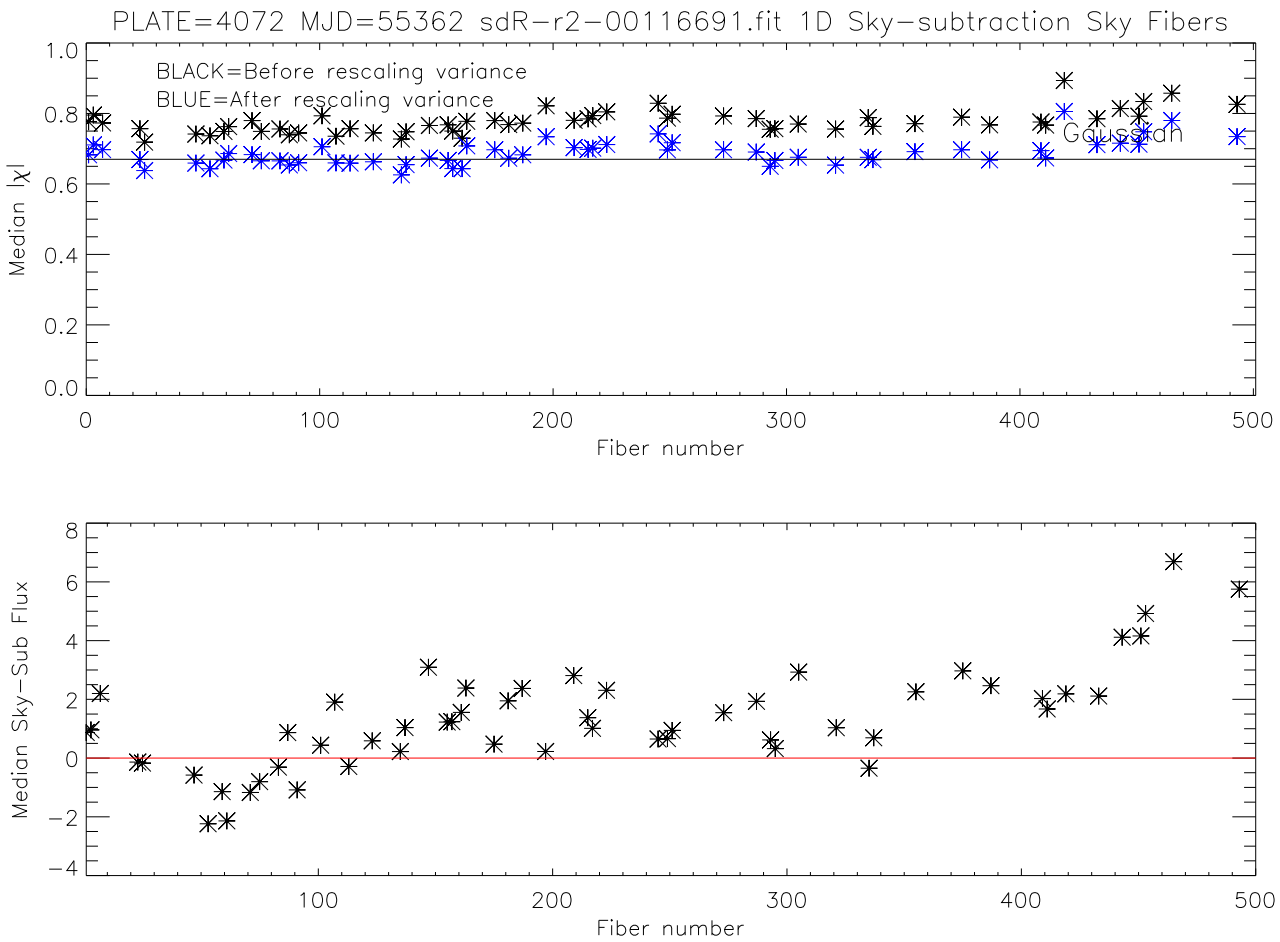

PLATE=4072 MJD=55362 sdR-r2-00116690.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.54 %
Fiber number
Focal Distance [mm]
Airmass

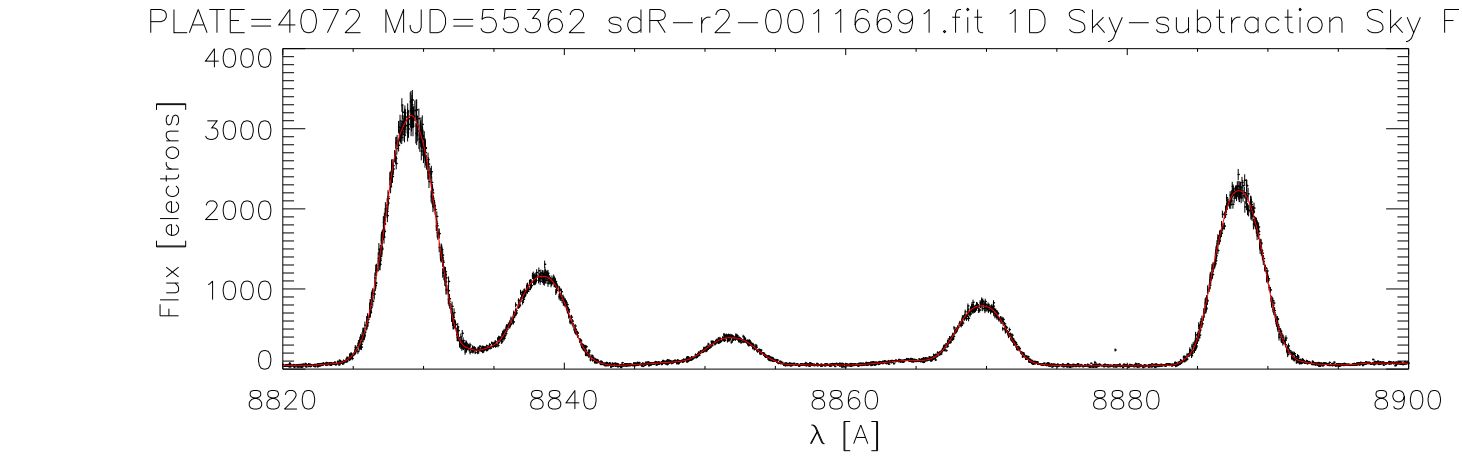

PLATE=4072 MJD=55362 Fiber−Flats for sdR−r2−00116695.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −33.175
Max value = 123.532
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Sat Apr 12 12:34:26 2014

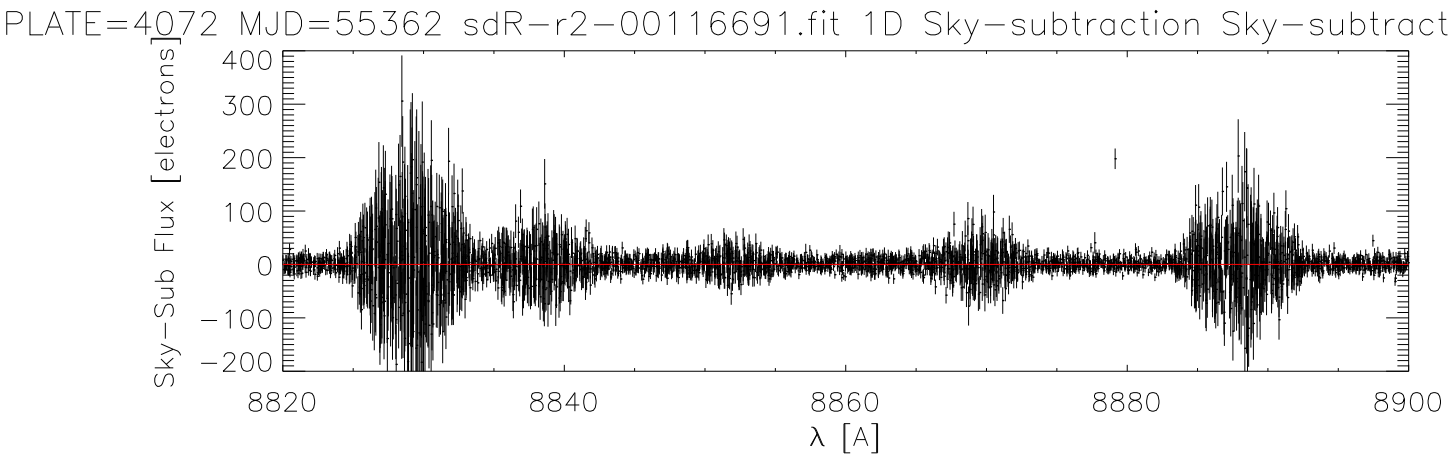

PLATE=4072 MJD=55362 Extraction chi$^2$ for sdR−r2−00116691.fit
BLACK = Final chisq extraction
$\chi^2$
2.0
1.5
1.0
0.5
0.0
0
1000
2000
3000
4000
Row number


PLATE=4072 MJD=55362 Sky Line Deviations for sdR-r2-00116691.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

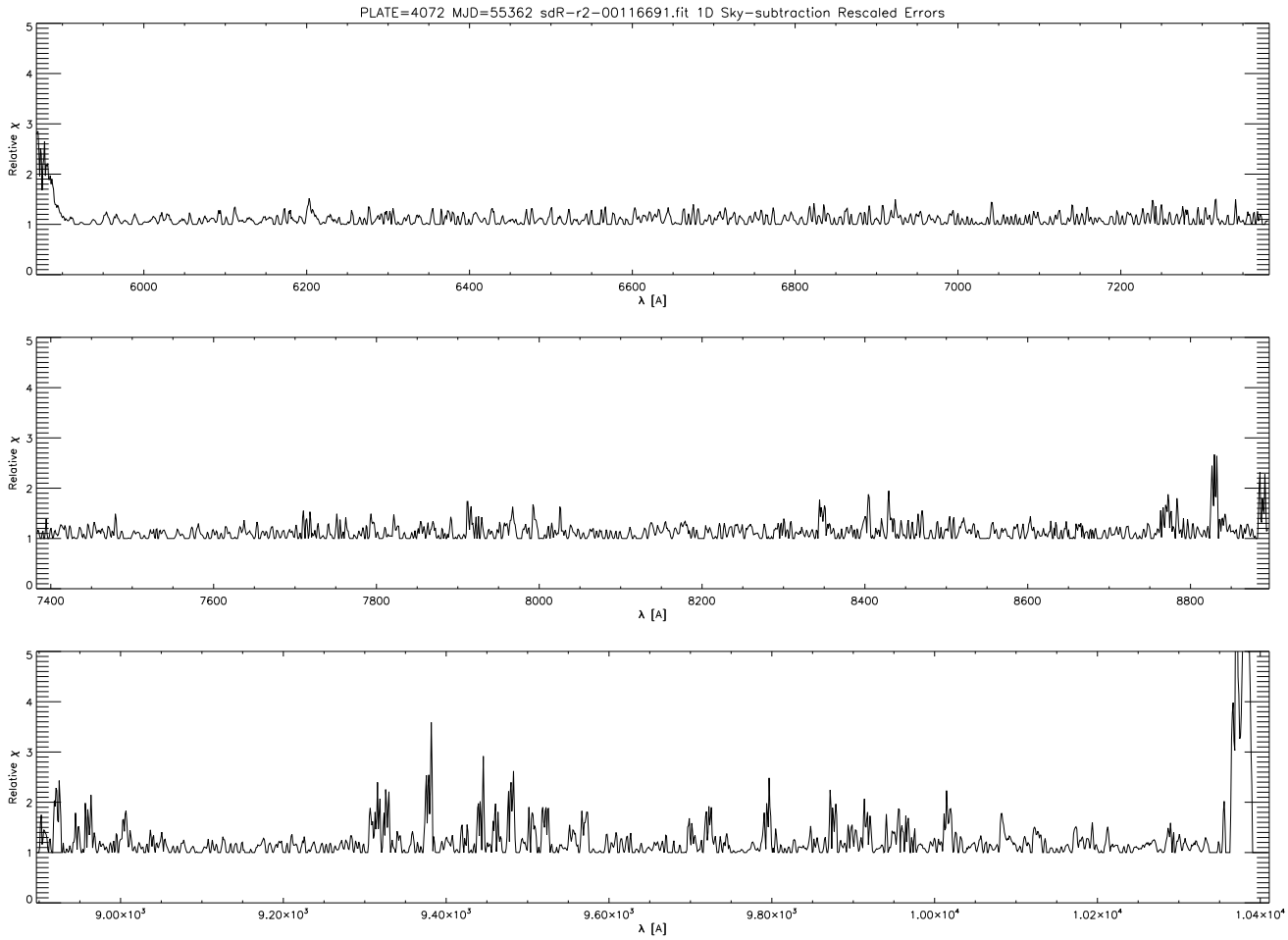

PLATE=4072 MJD=55362 Smooth superflat for sdR-r2-00116691.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

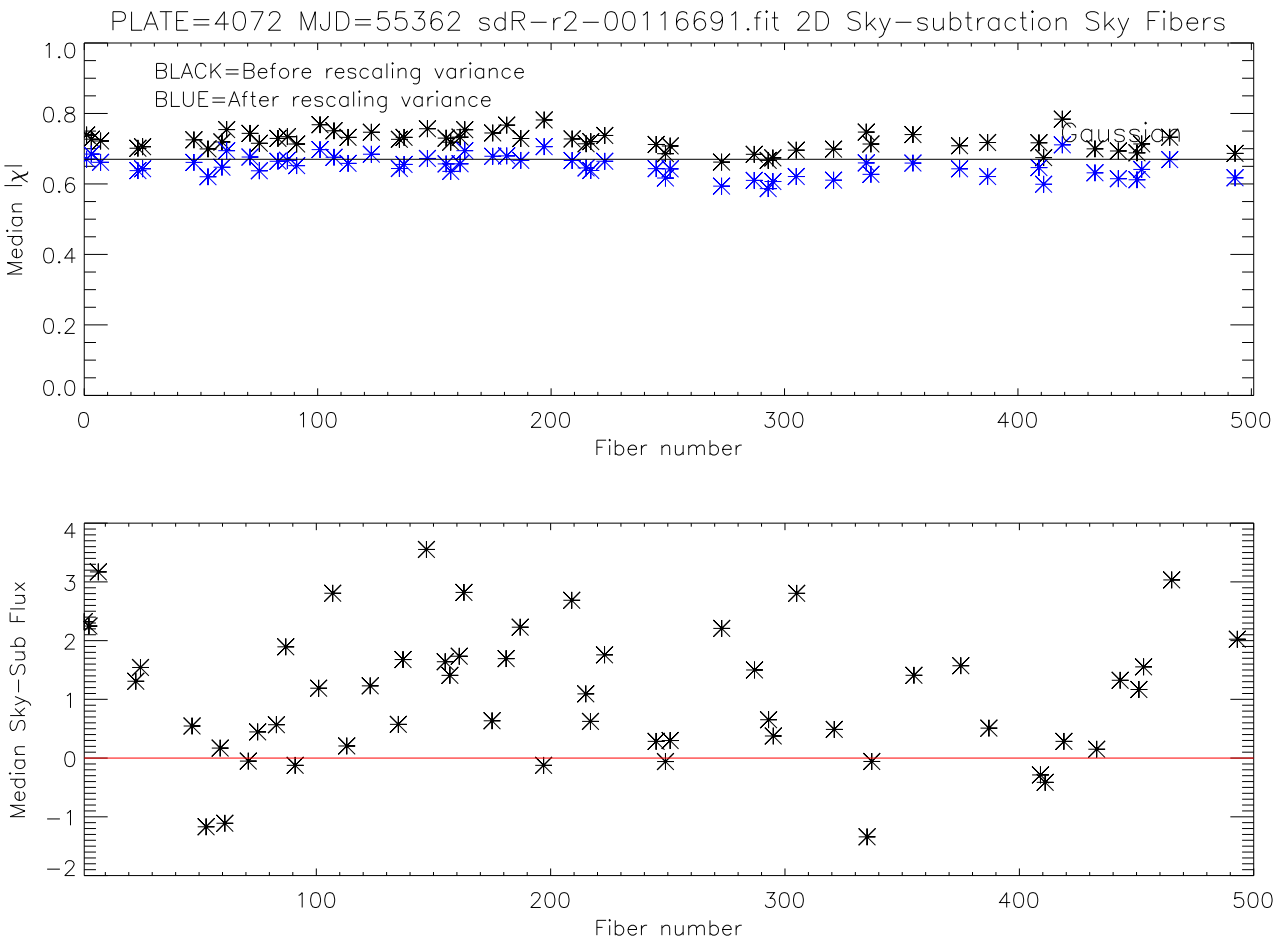

PLATE=4072 MJD=55362 sdR-r2-00116691.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

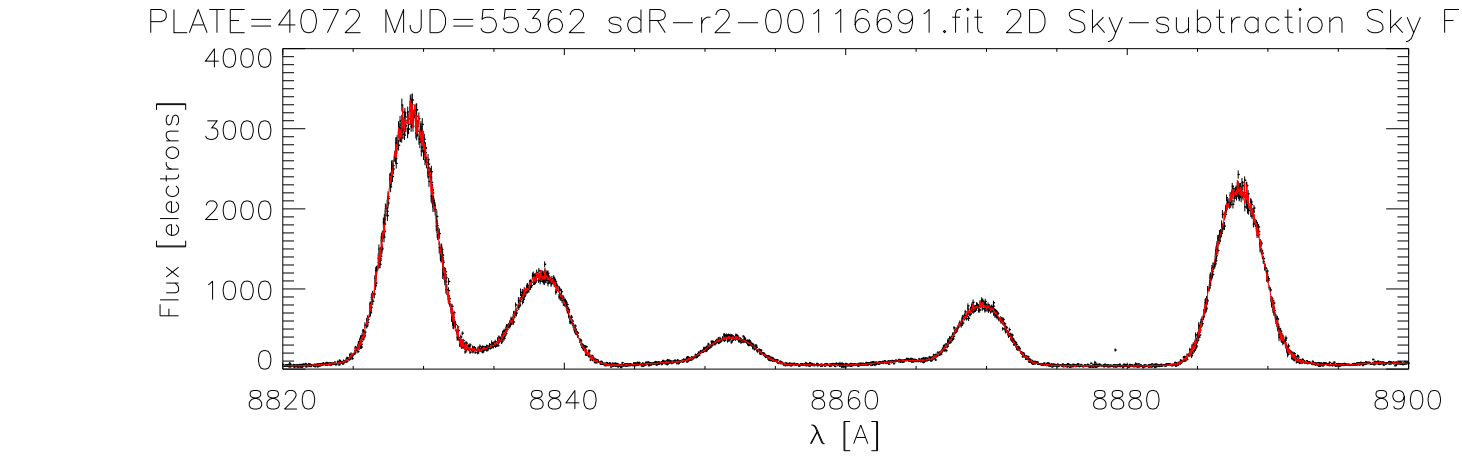

PLATE=4072 MJD=55362 sdR-r2-00116691.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

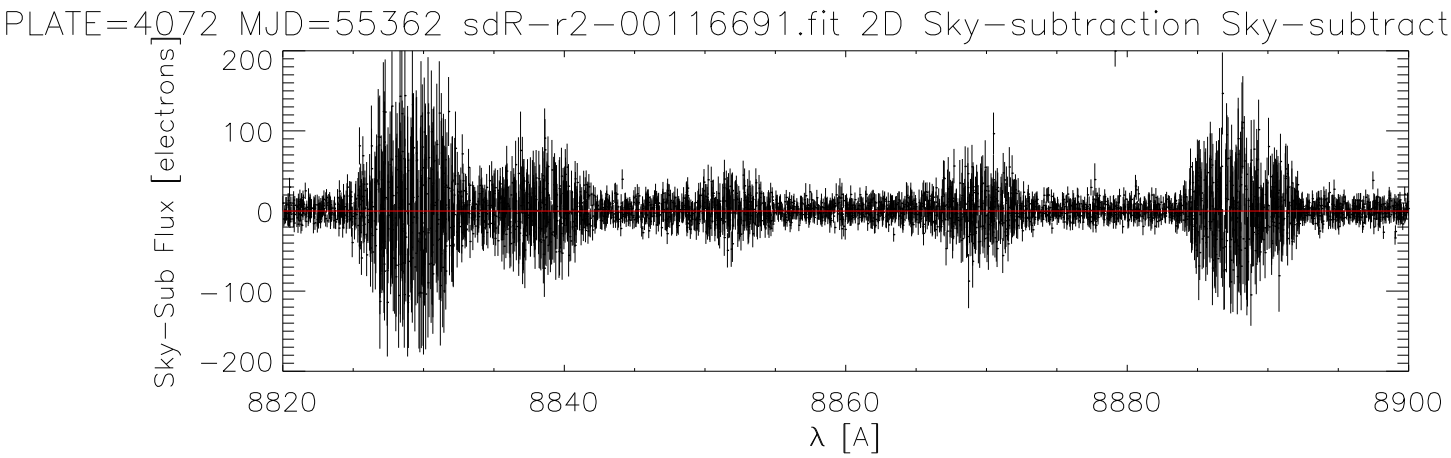

PLATE=4072 MJD=55362 sdR-r2-00116691.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 56

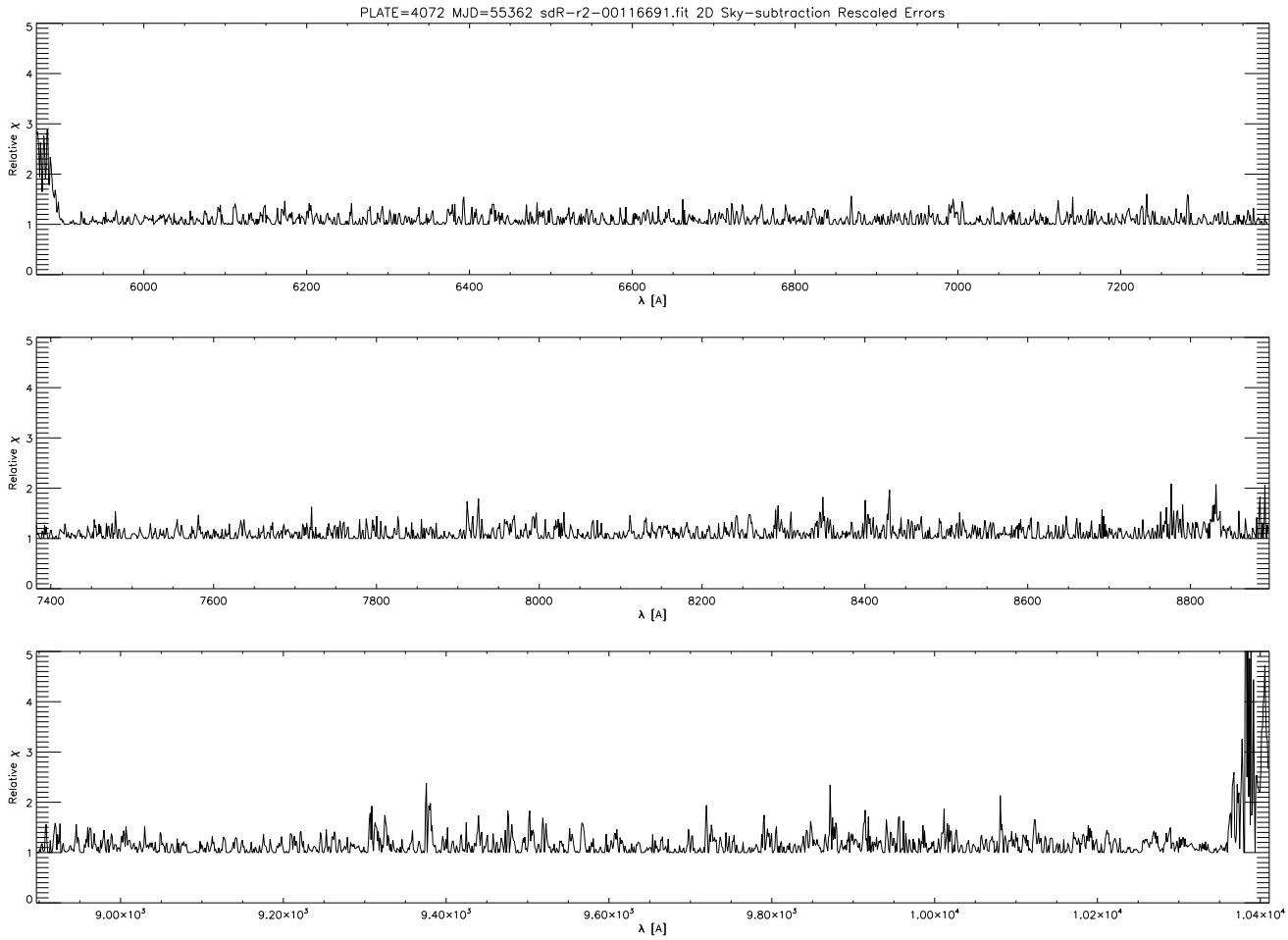


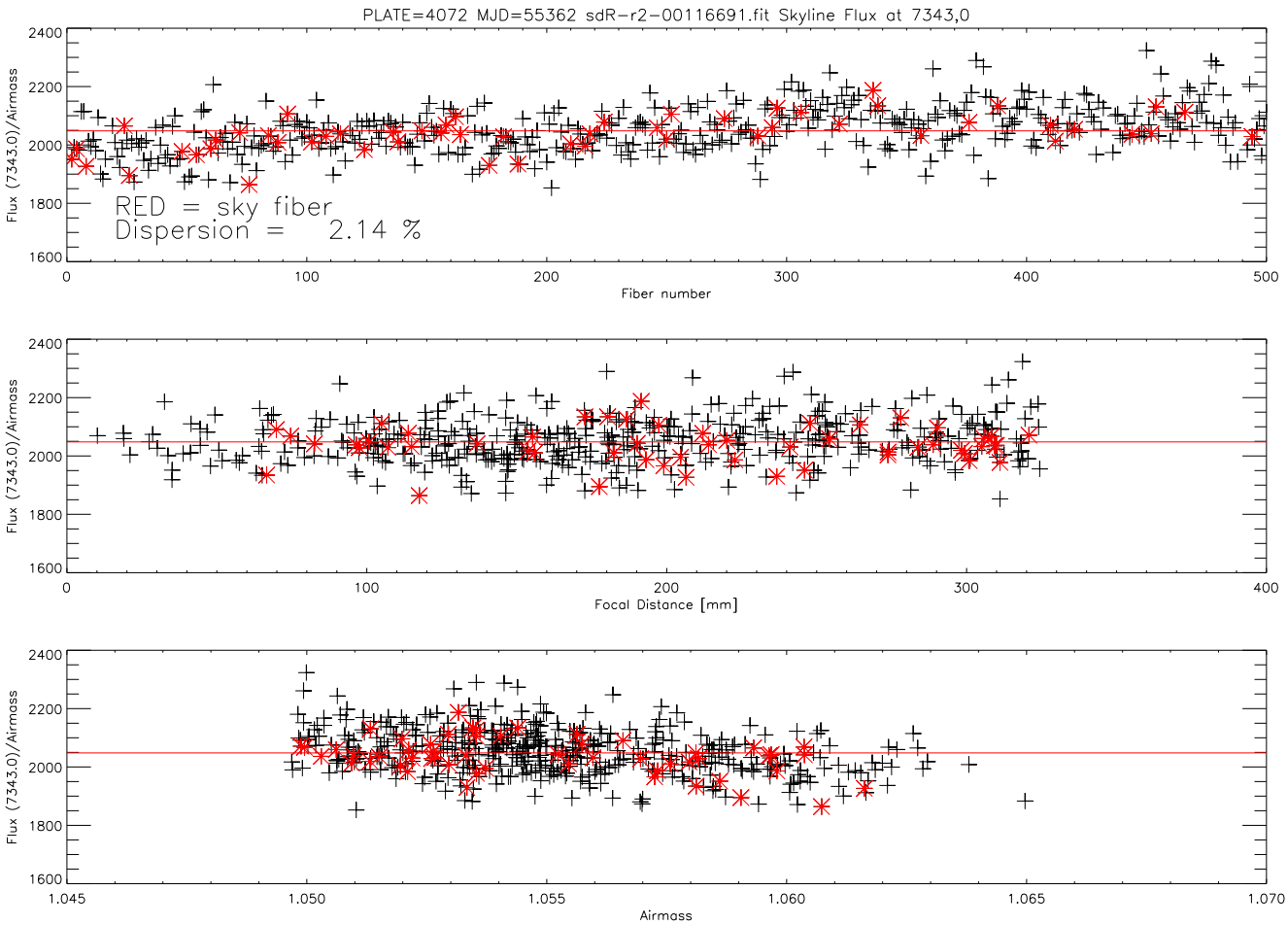

PLATE=4072 MJD=55362 sdR-r2-00116691.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

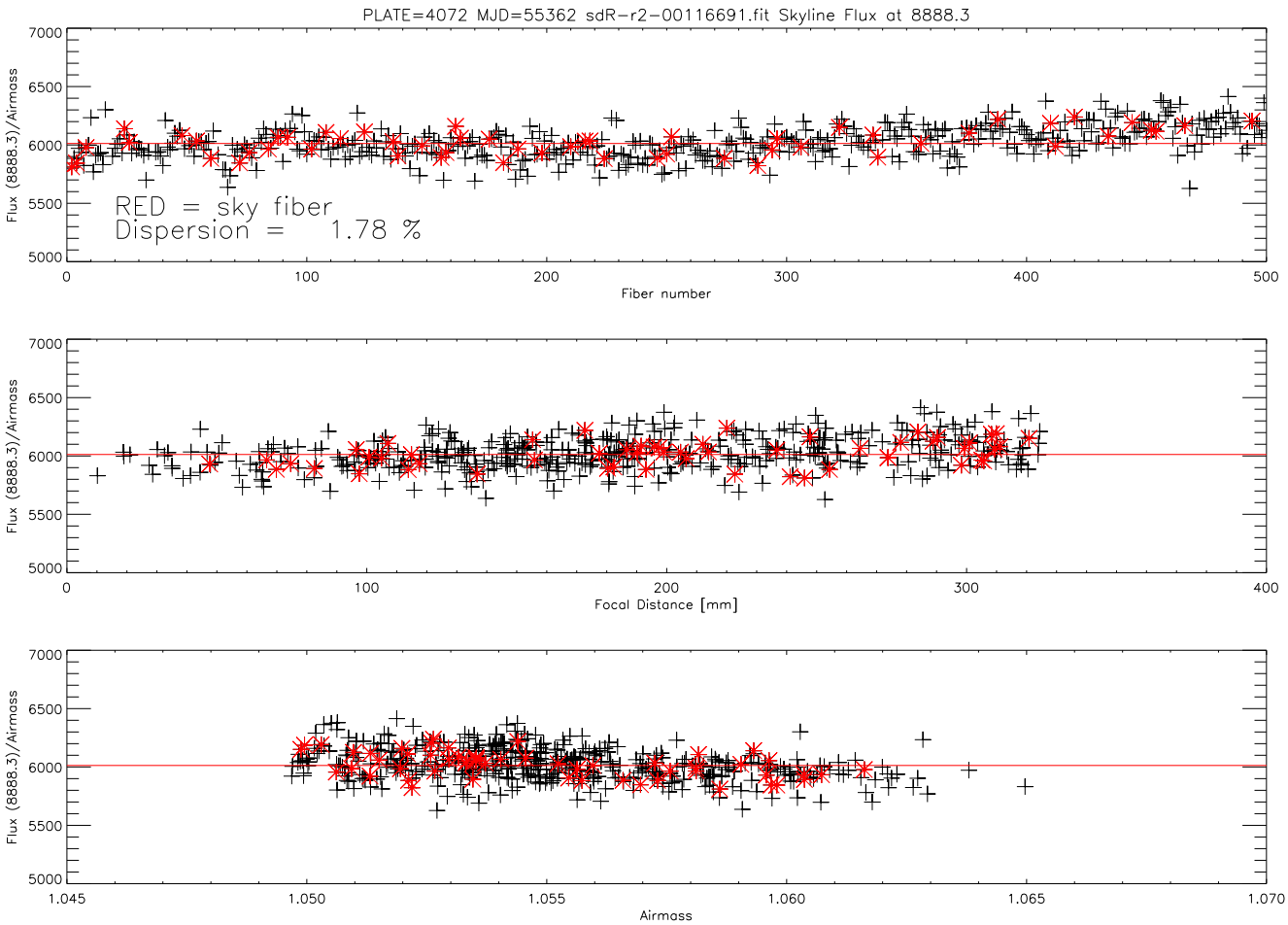

PLATE=4072 MJD=55362 sdR-r2-00116691.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

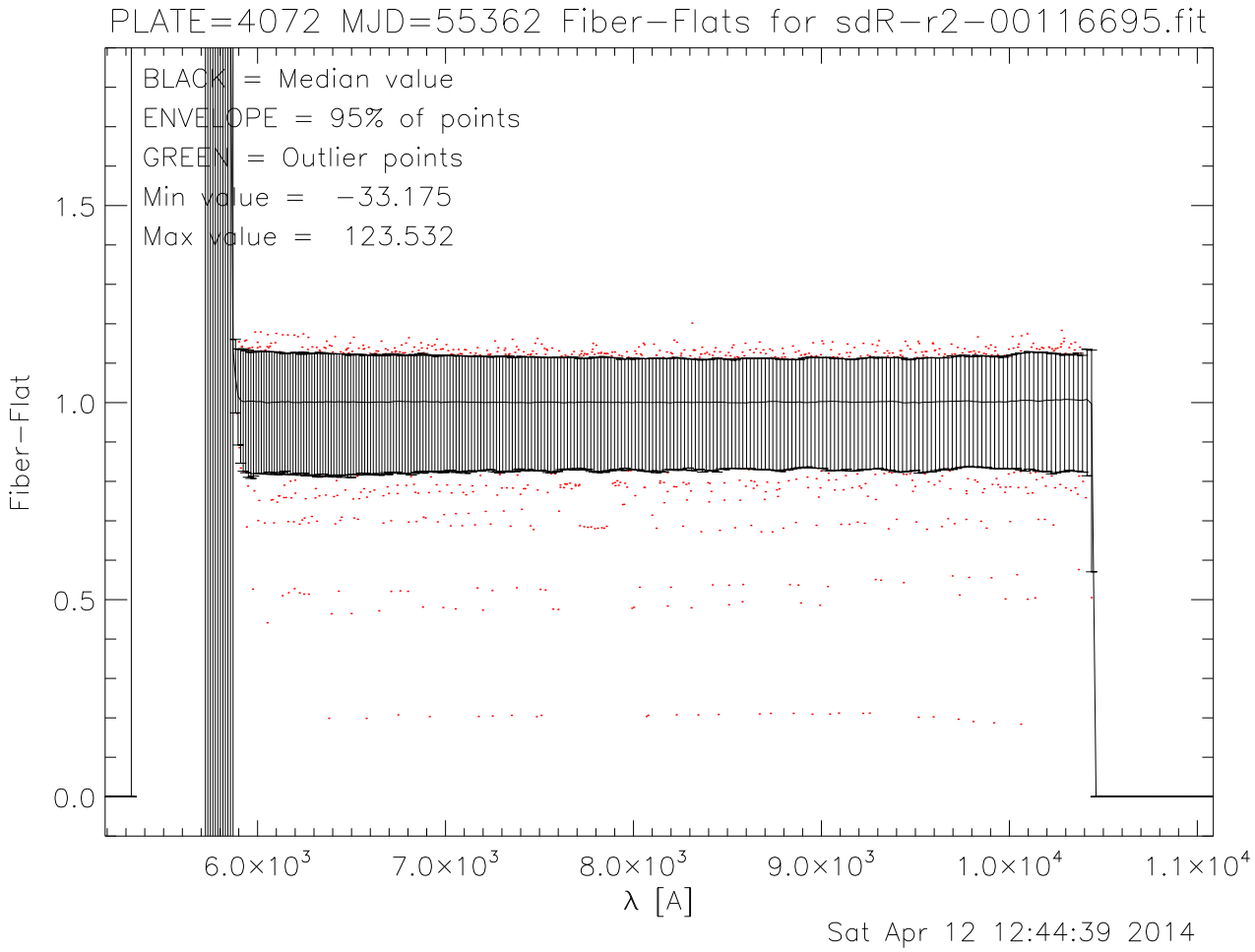

PLATE=4072 MJD=55362 sdR-r2-00116691.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

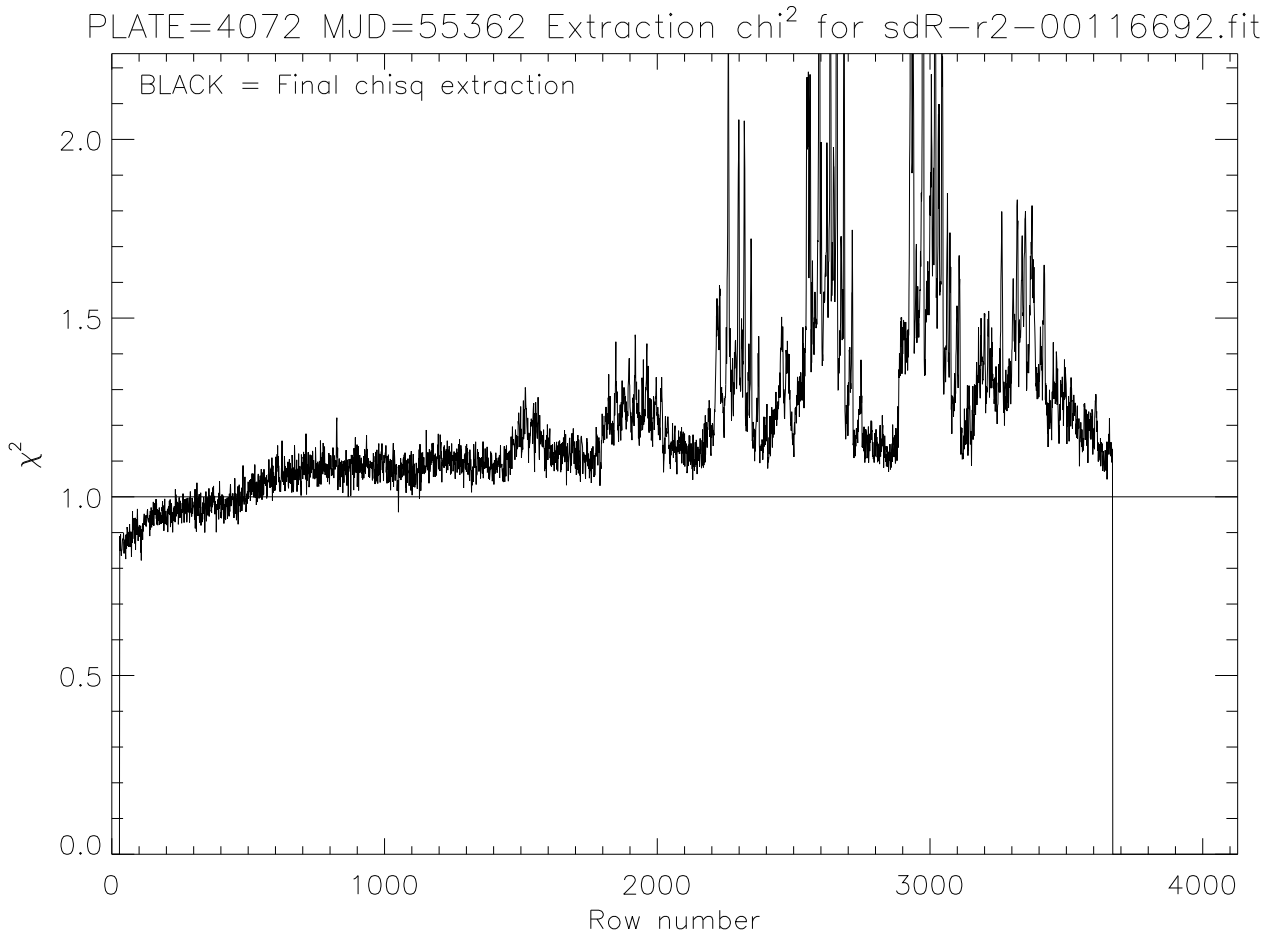
Number of sky fibers = 56

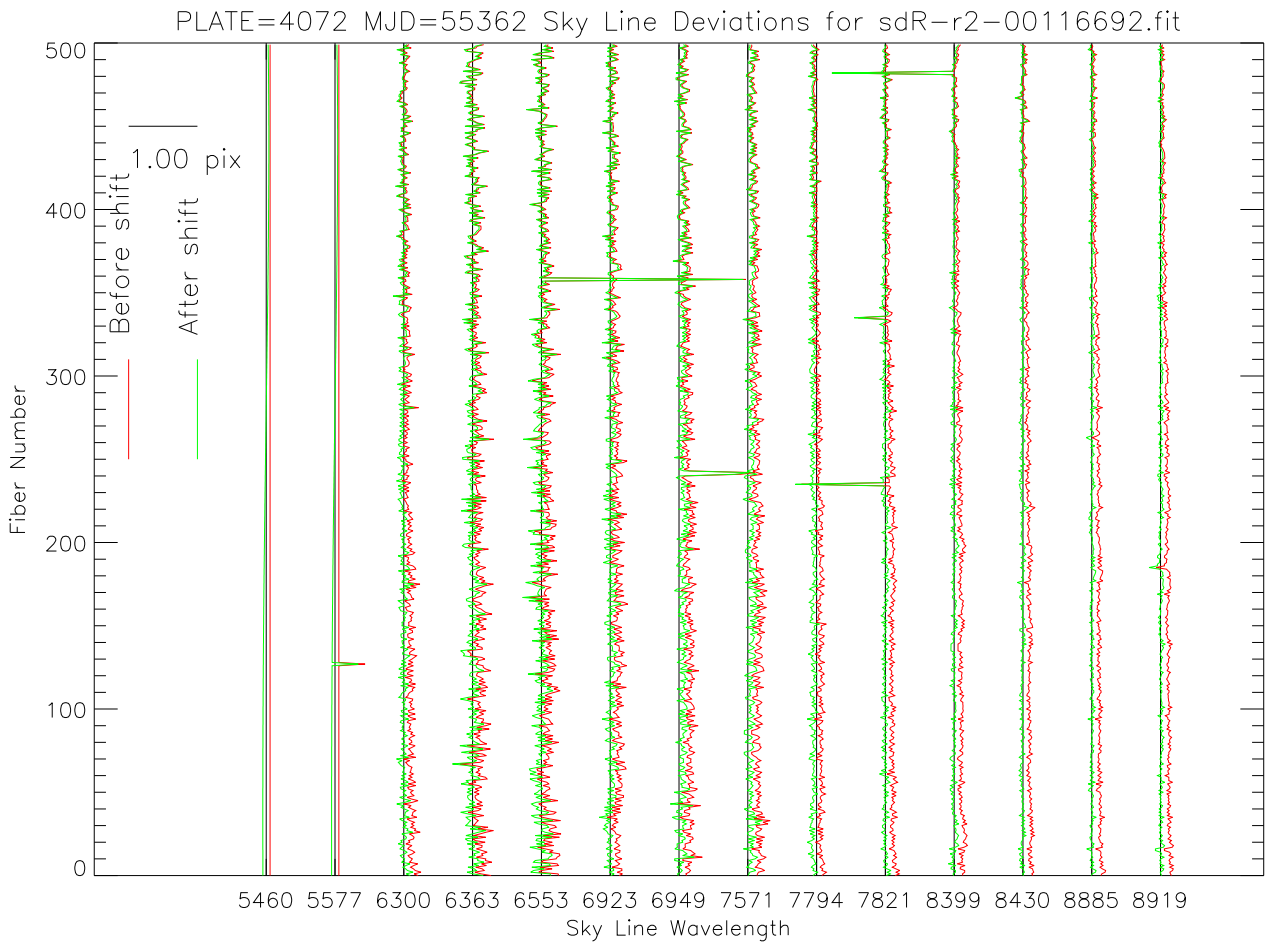


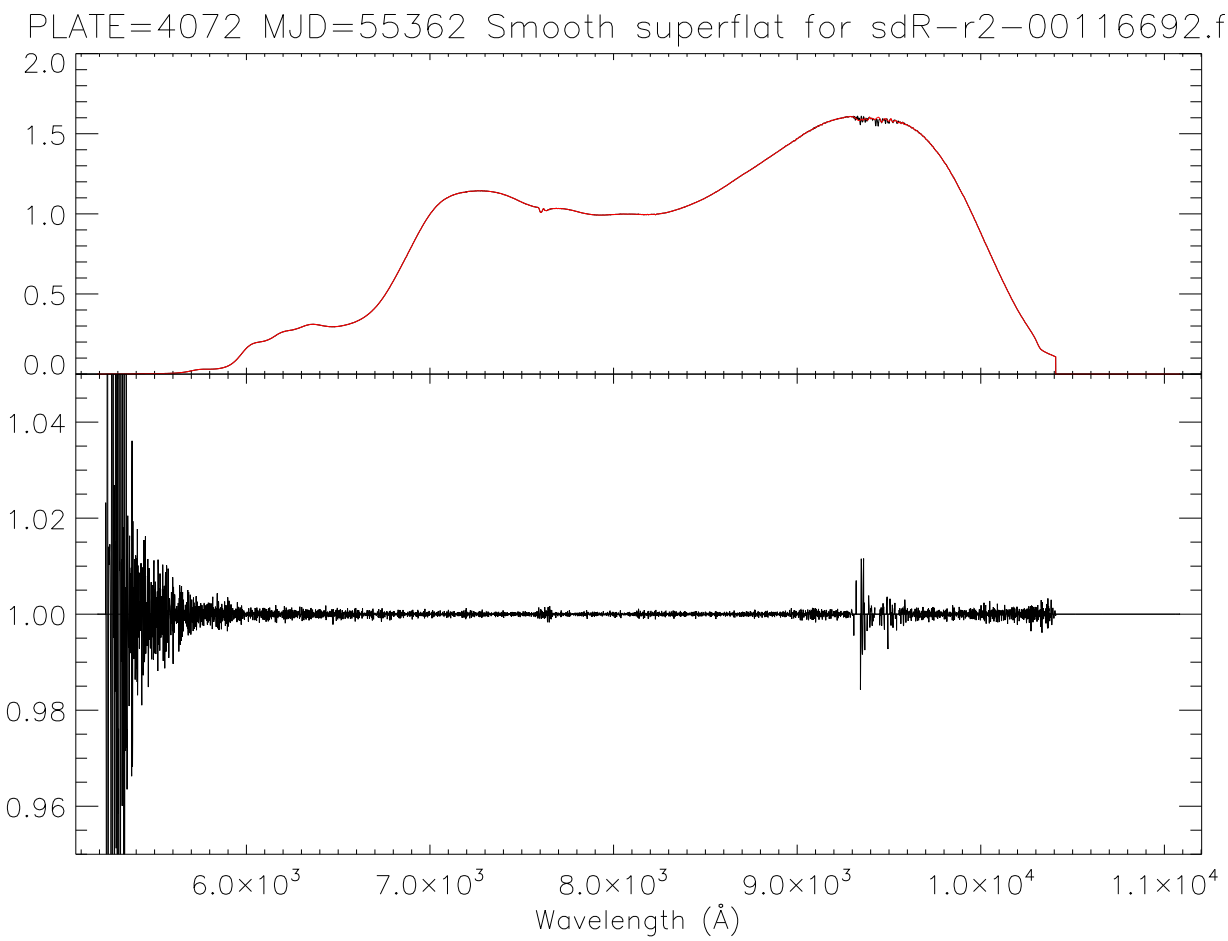

PLATE=4072 MJD=55362 sdR-r2-00116691.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.14 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

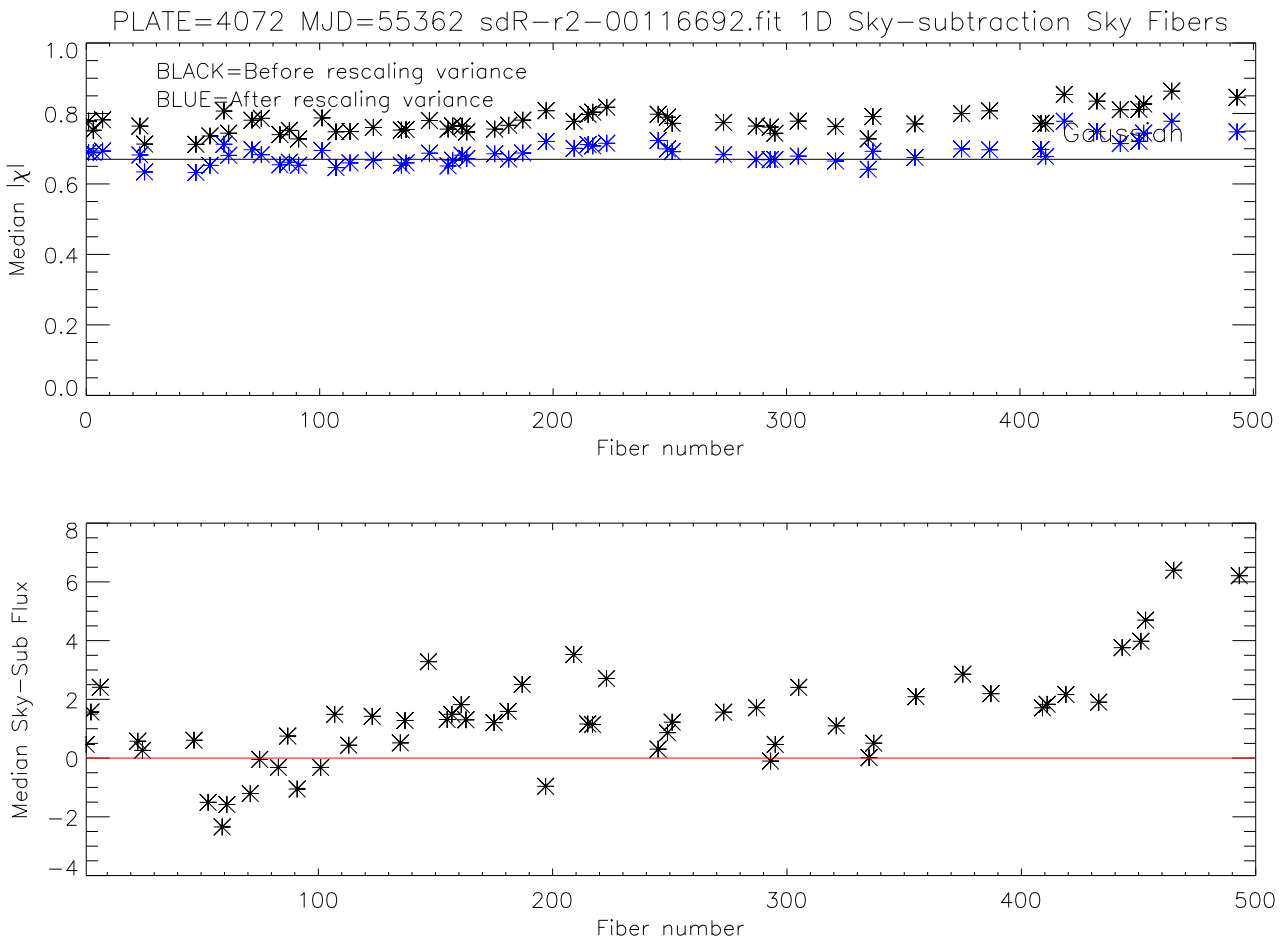

PLATE=4072 MJD=55362 sdR-r2-00116691.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.78 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

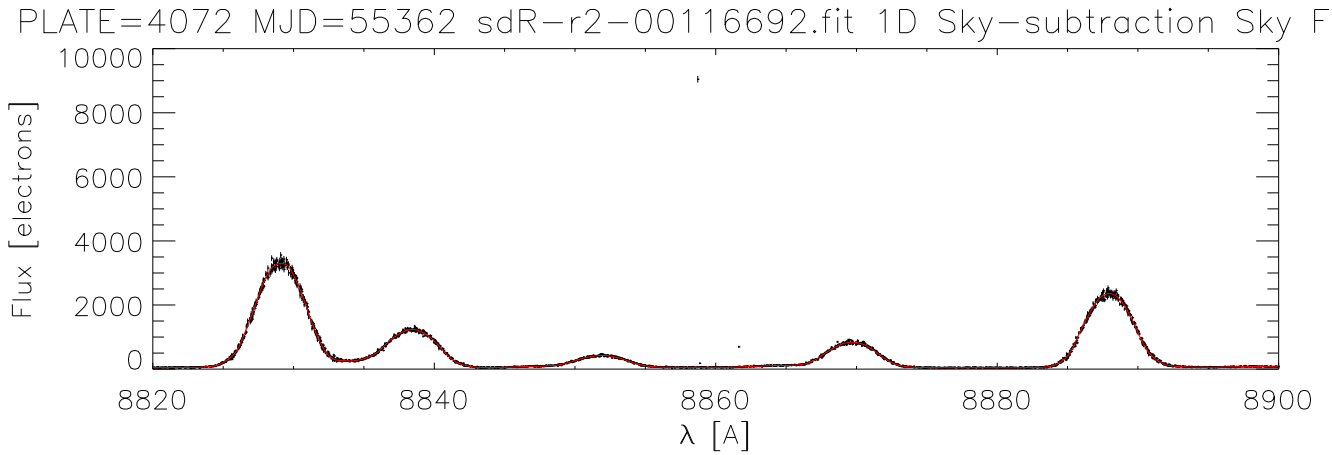

PLATE=4072 MJD=55362 Fiber−Flats for sdR−r2−00116695.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −33.175
Max value = 123.532
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Sat Apr 12 12:44:39 2014

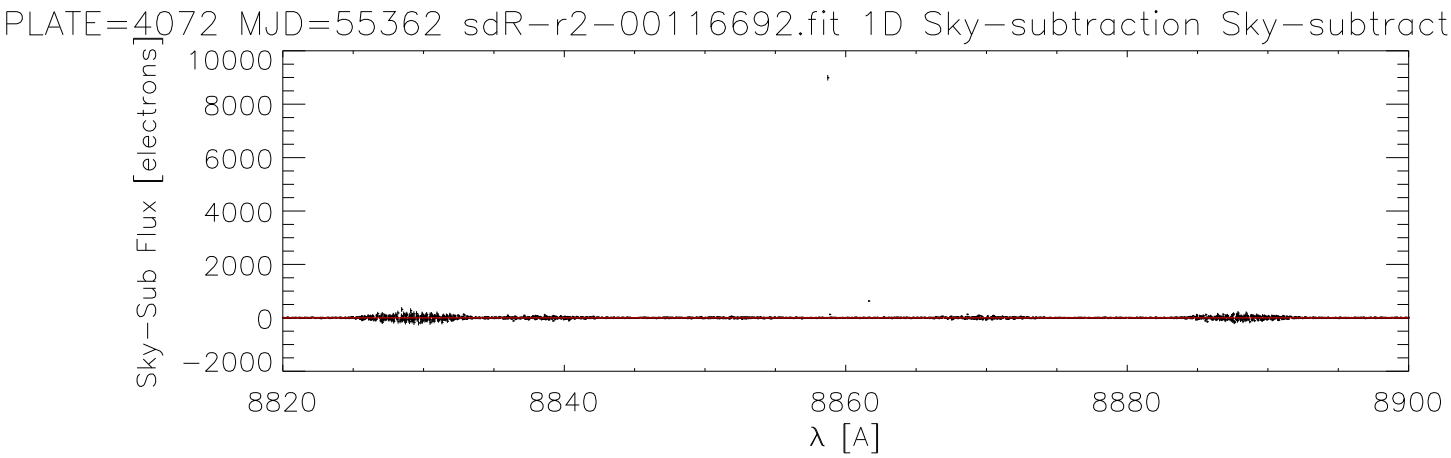

PLATE=4072 MJD=55362 Extraction chi$^2$ for sdR−r2−00116692.fit
BLACK = Final chisq extraction
$\chi^2$
0.0
0.5
1.0
1.5
2.0
0
1000
2000
3000
4000
Row number


PLATE=4072 MJD=55362 Sky Line Deviations for sdR-r2-00116692.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

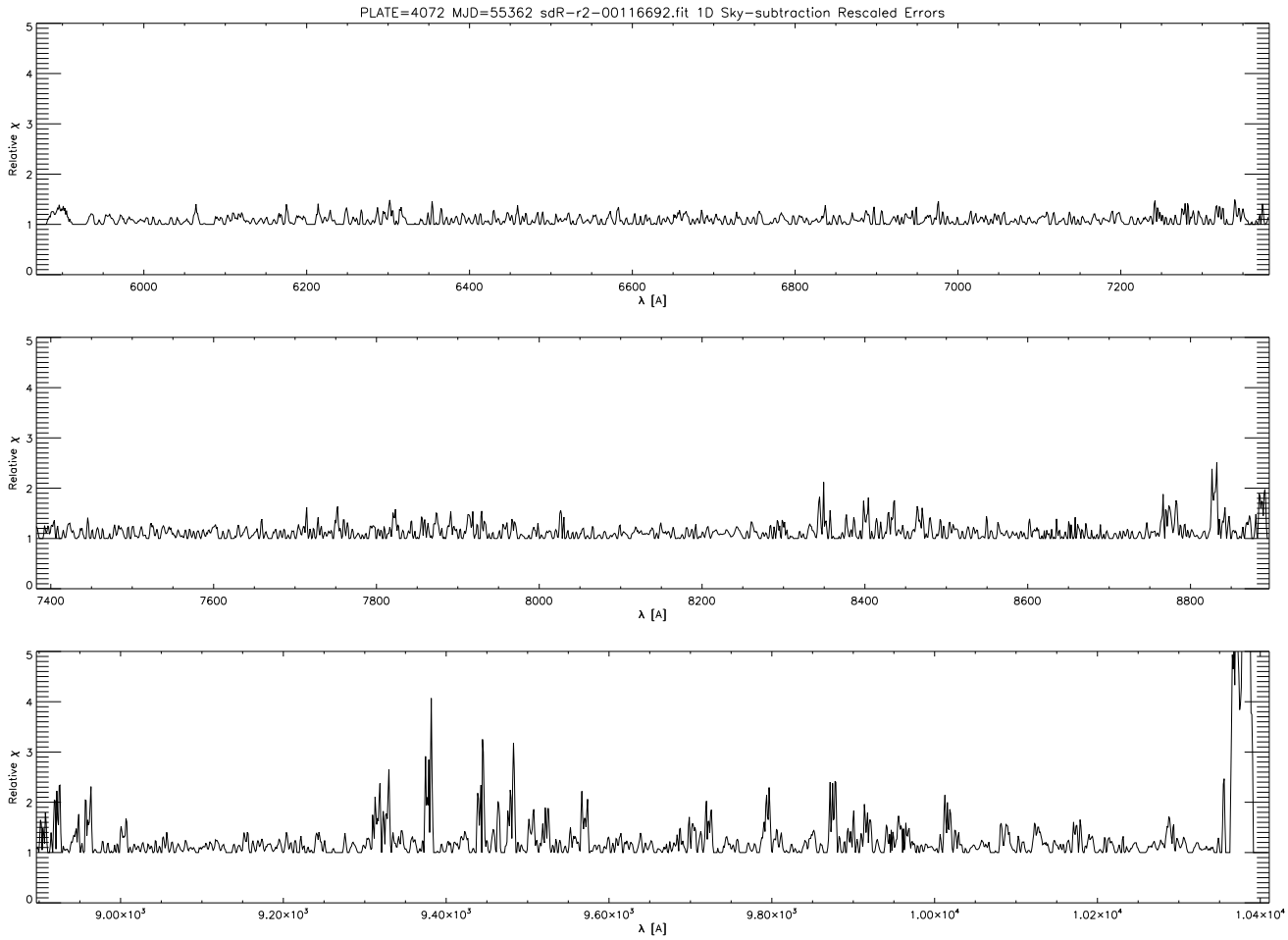

PLATE=4072 MJD=55362 Smooth superflat for sdR-r2-00116692.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

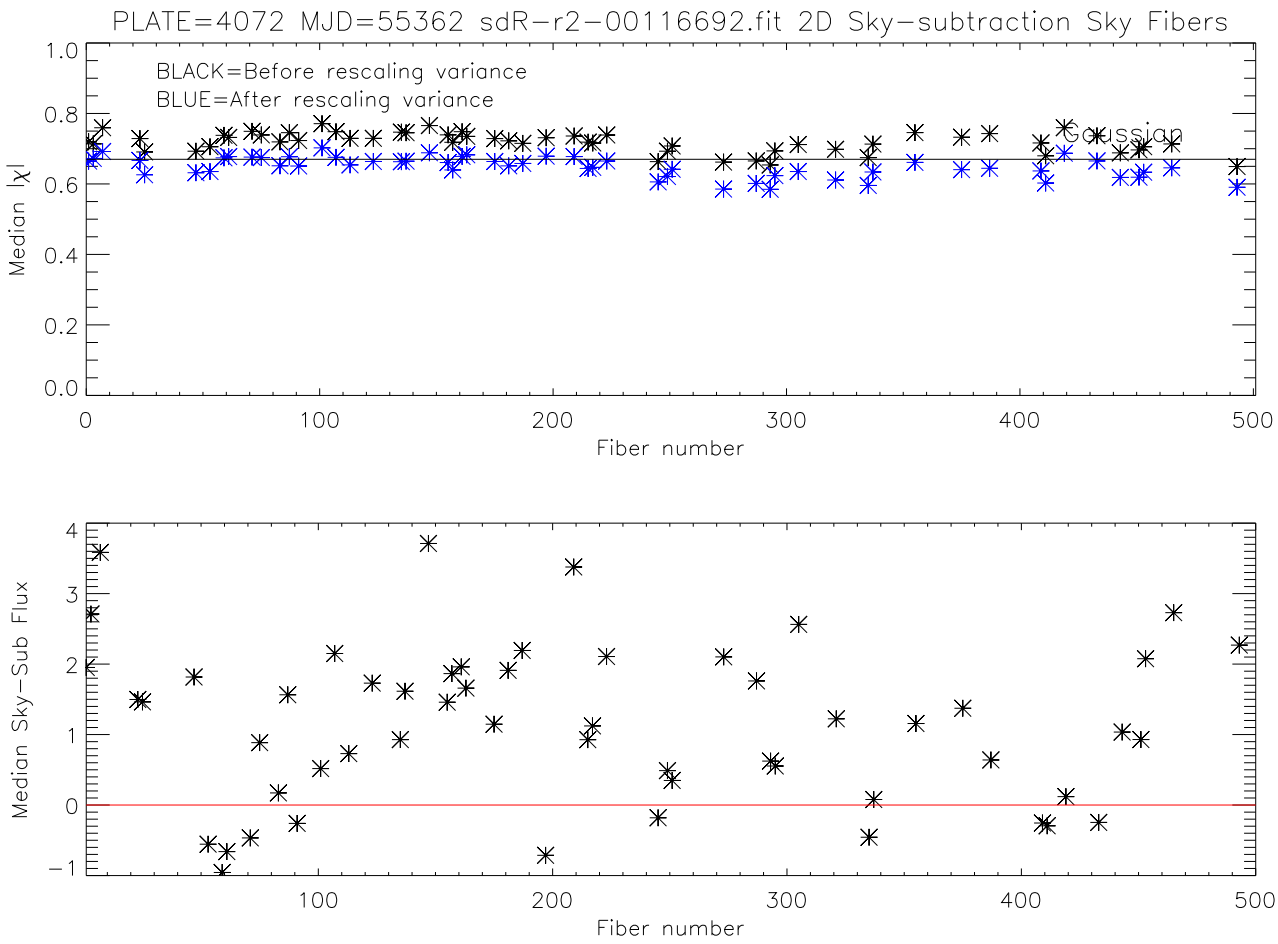

PLATE=4072 MJD=55362 sdR-r2-00116692.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

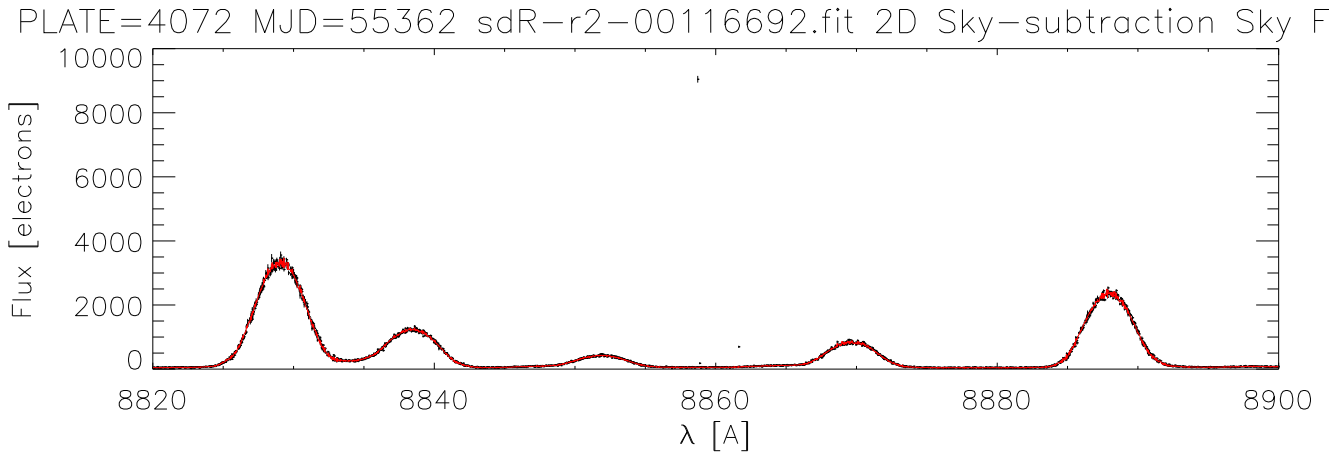

PLATE=4072 MJD=55362 sdR-r2-00116692.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

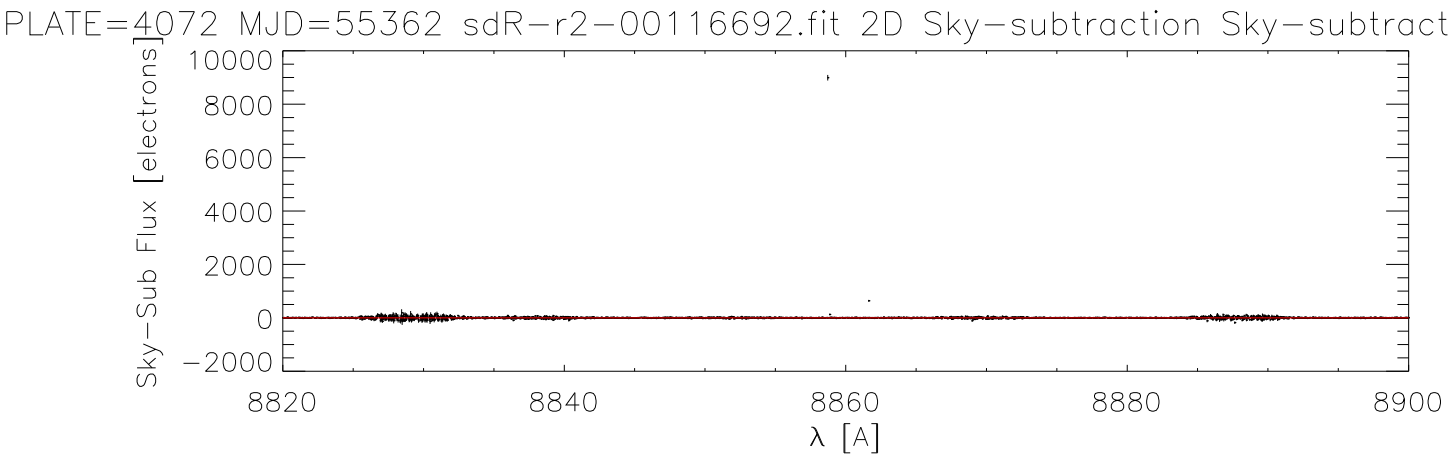

PLATE=4072 MJD=55362 sdR-r2-00116692.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
10000
8000
6000
4000
2000
0
-2000
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 56

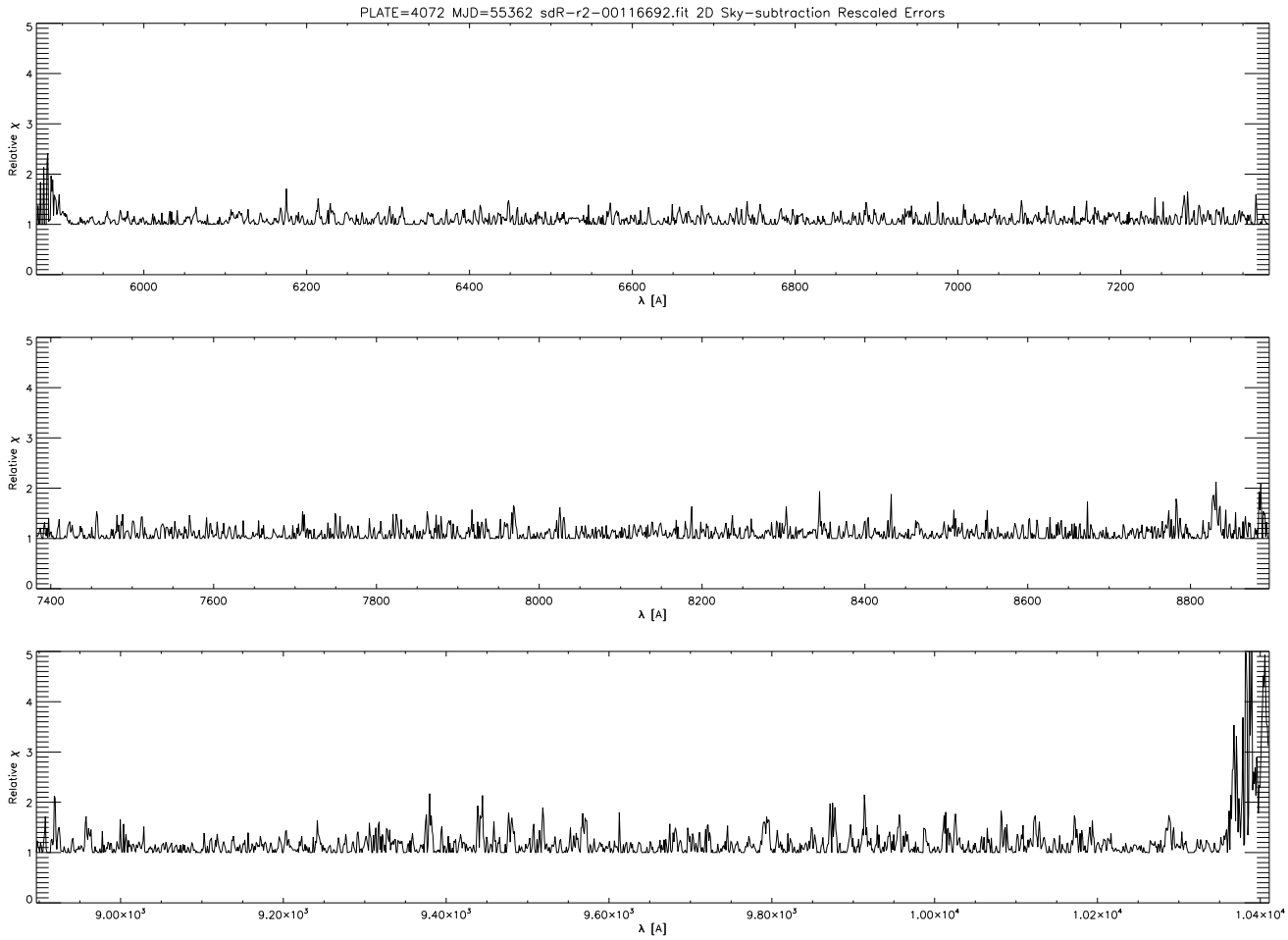


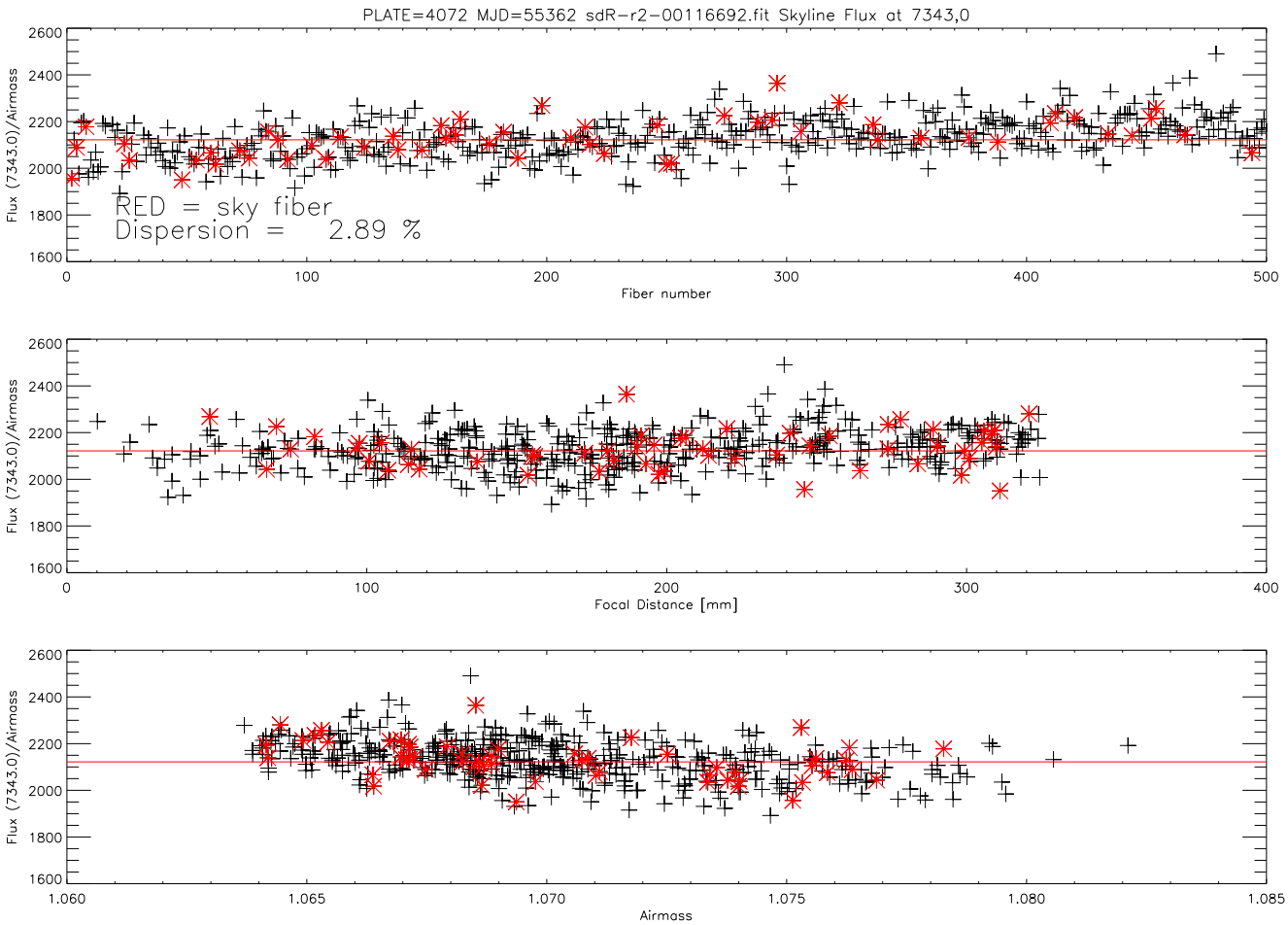

PLATE=4072 MJD=55362 sdR-r2-00116692.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

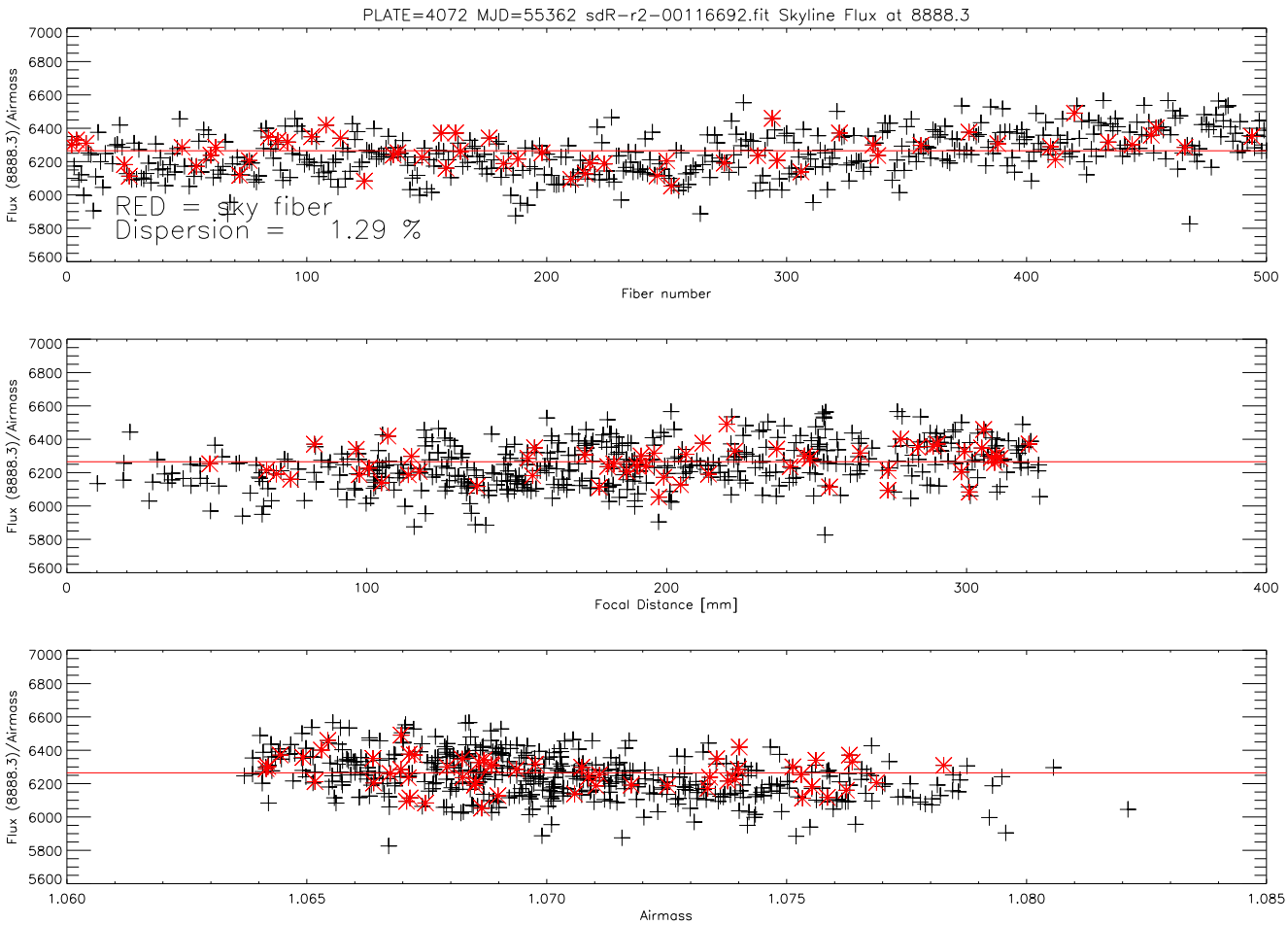

PLATE=4072 MJD=55362 sdR-r2-00116692.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

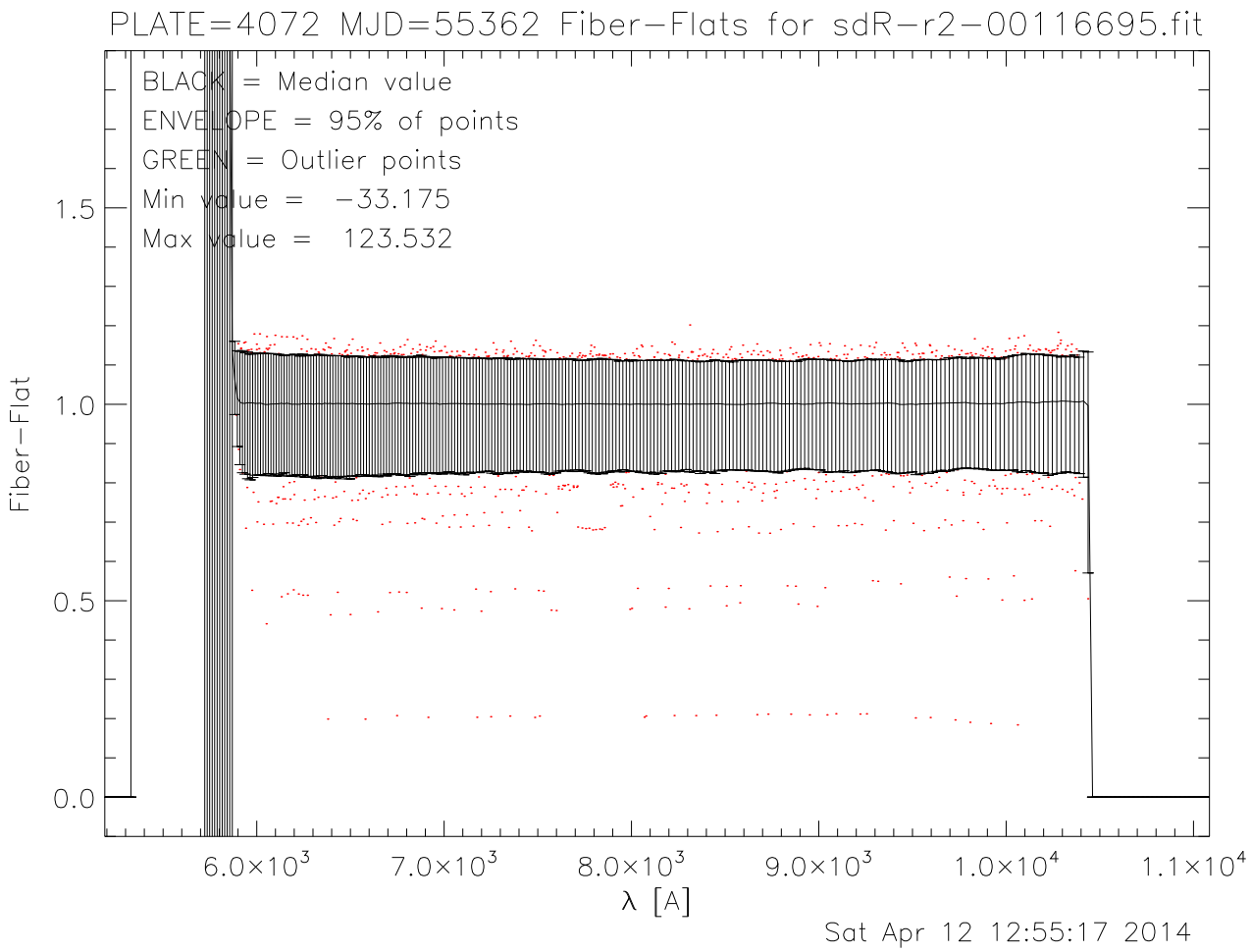

PLATE=4072 MJD=55362 sdR-r2-00116692.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
10000
8000
6000
4000
2000
0
-2000
8820
8840
8860
8880
8900
λ [A]

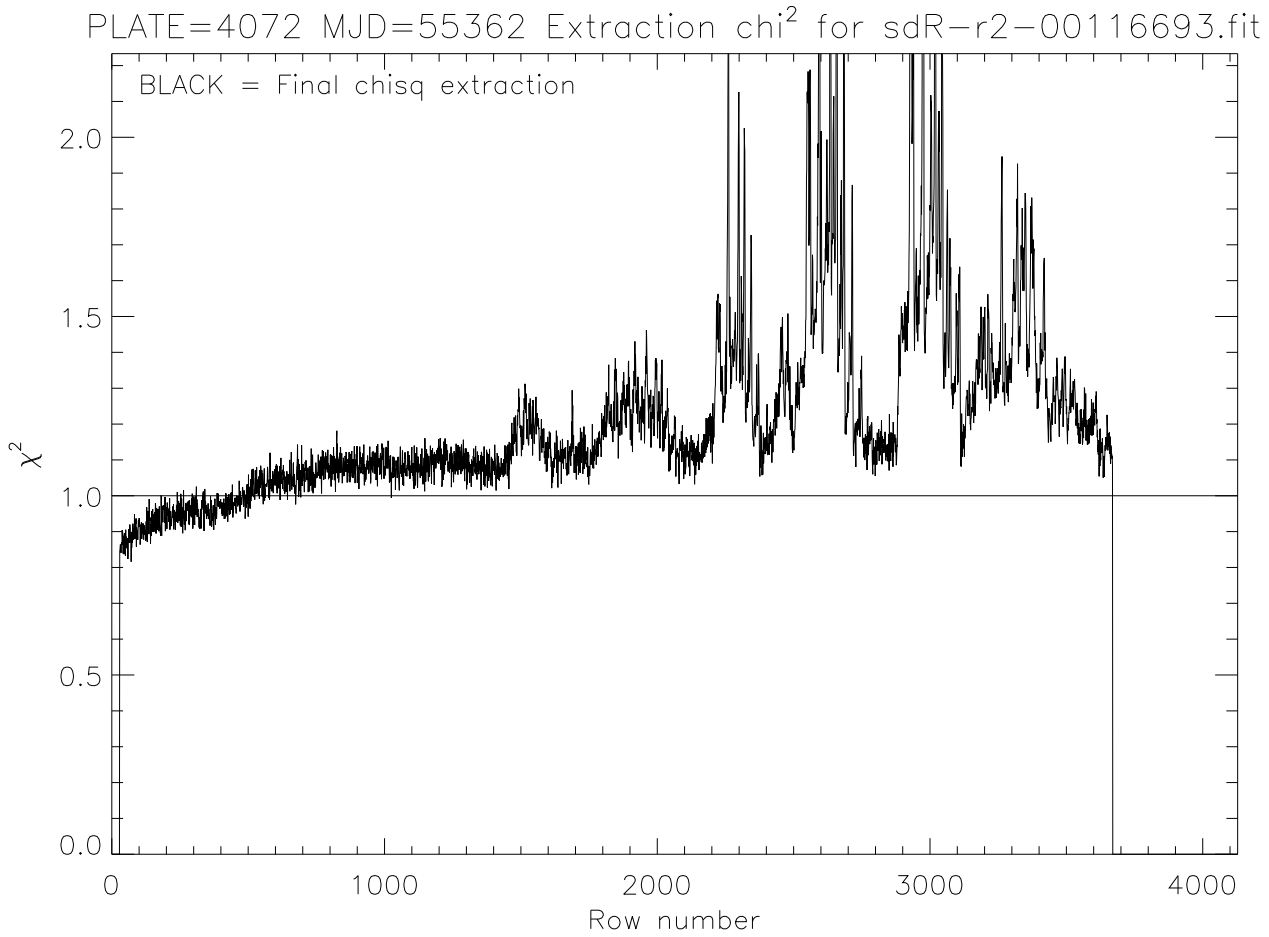
Number of sky fibers = 56

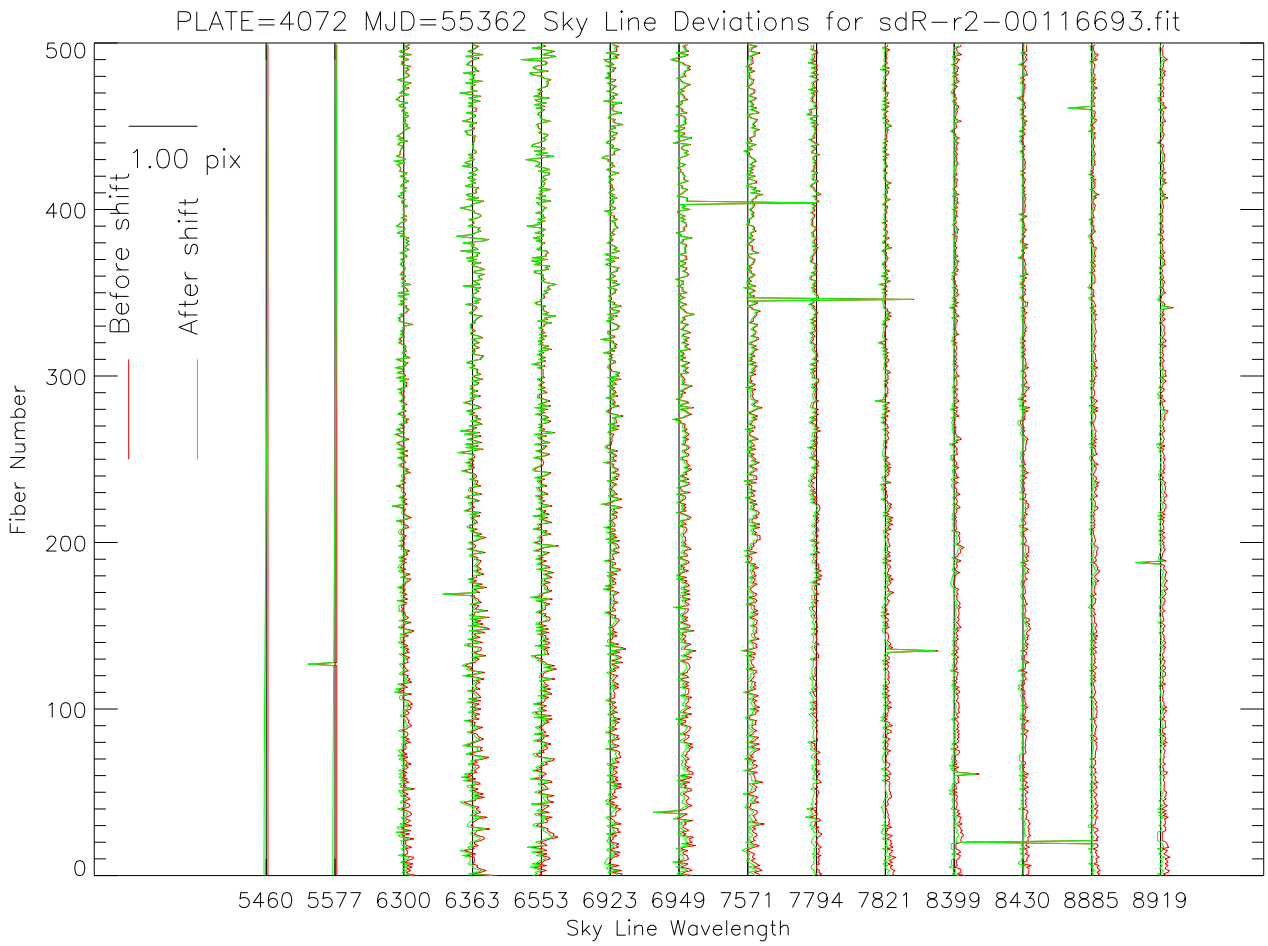


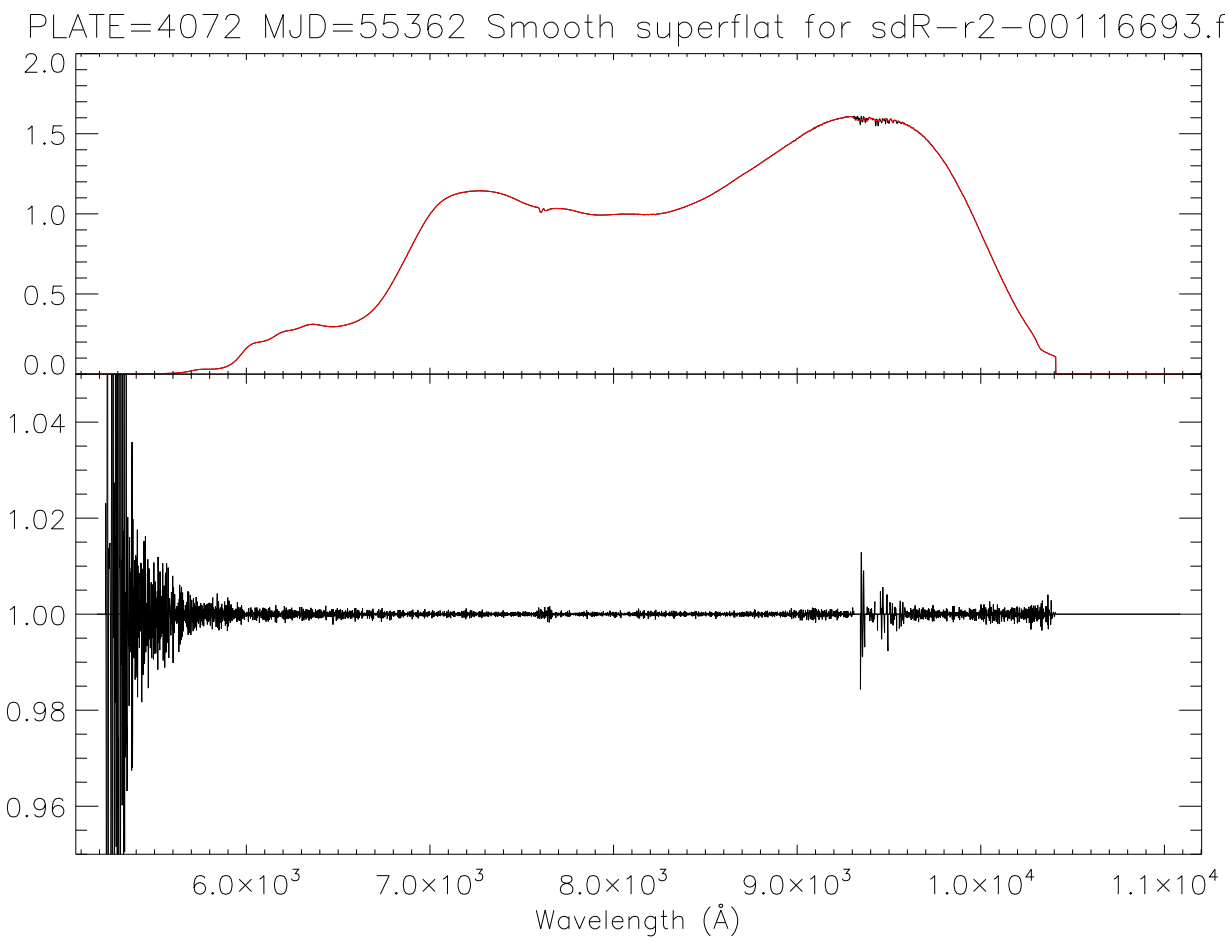

PLATE=4072 MJD=55362 sdR-r2-00116692.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.89 %
Fiber number
Focal Distance [mm]
Airmass

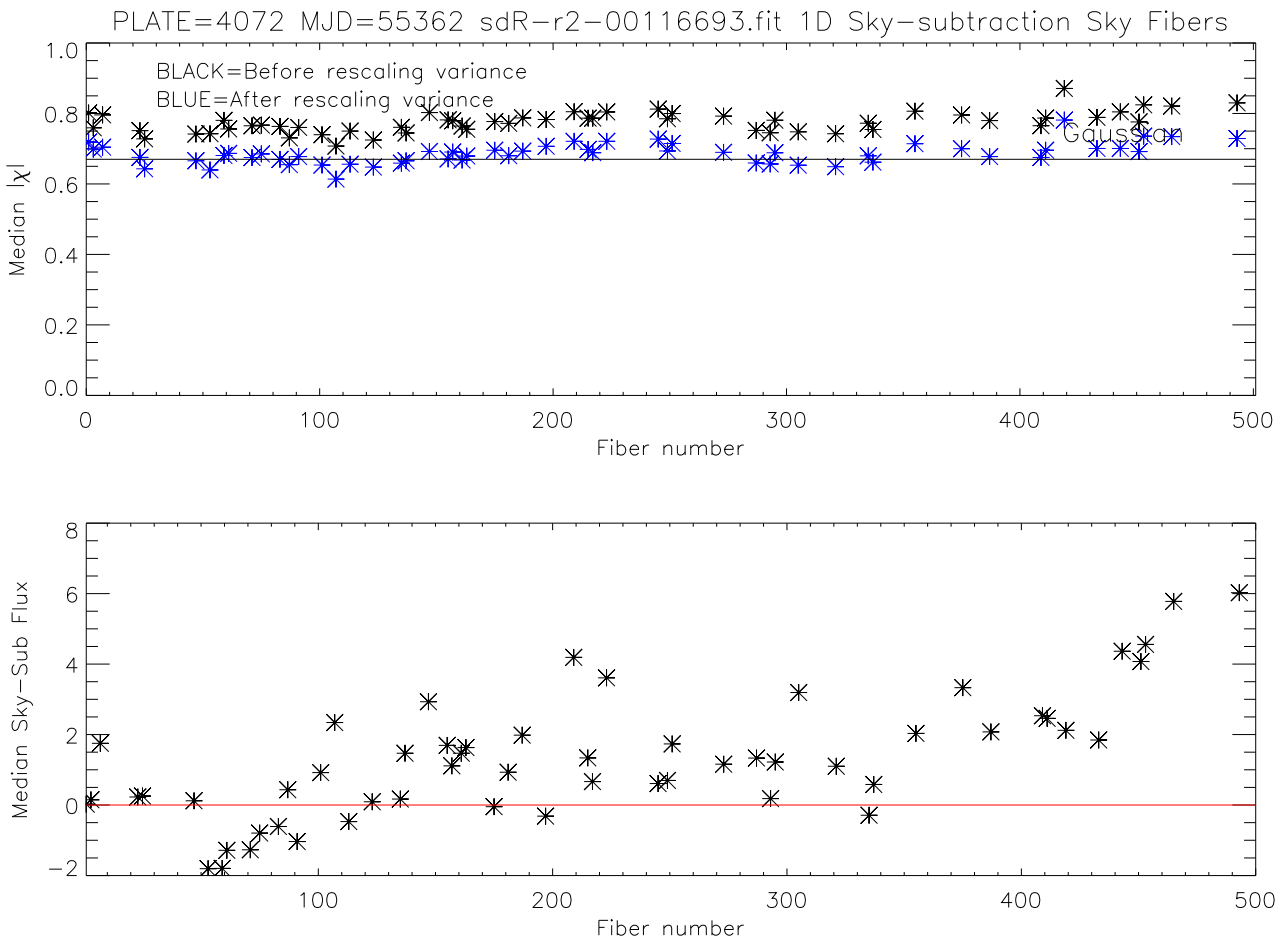

PLATE=4072 MJD=55362 sdR-r2-00116692.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.29 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

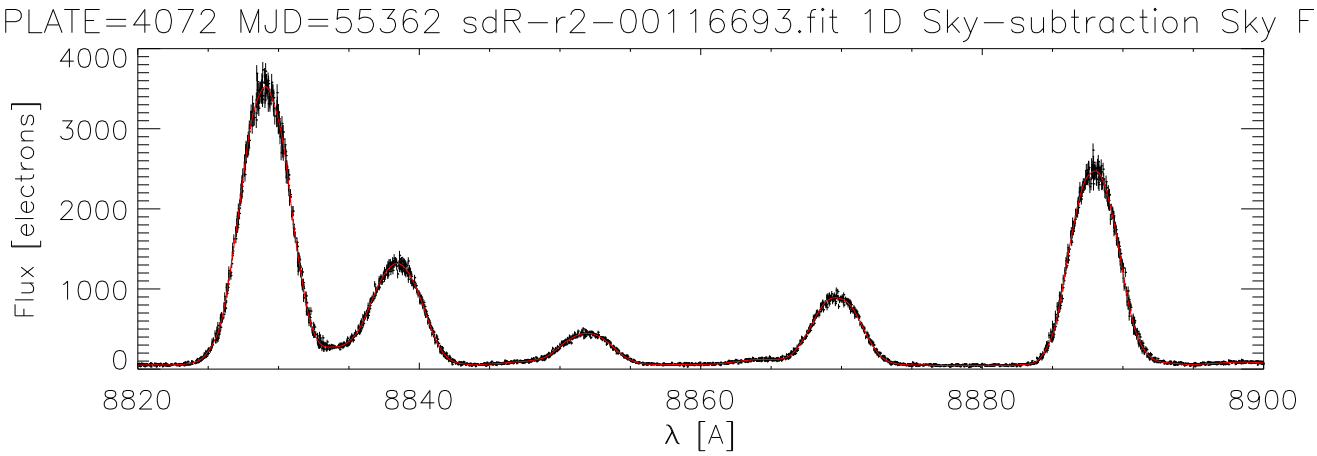

PLATE=4072 MJD=55362 Fiber−Flats for sdR−r2−00116695.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −33.175
Max value = 123.532
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Sat Apr 12 12:55:17 2014

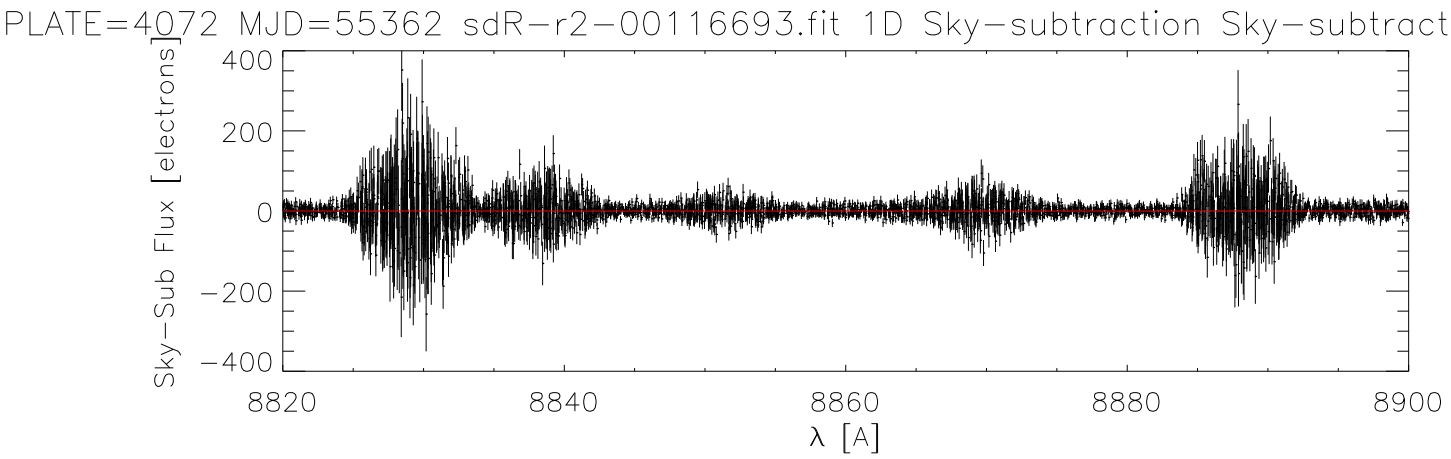

PLATE=4072 MJD=55362 Extraction chi$^2$ for sdR−r2−00116693.fit
BLACK = Final chisq extraction
$\chi^2$
2.0
1.5
1.0
0.5
0.0
0
1000
2000
3000
4000
Row number


PLATE=4072 MJD=55362 Sky Line Deviations for sdR-r2-00116693.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

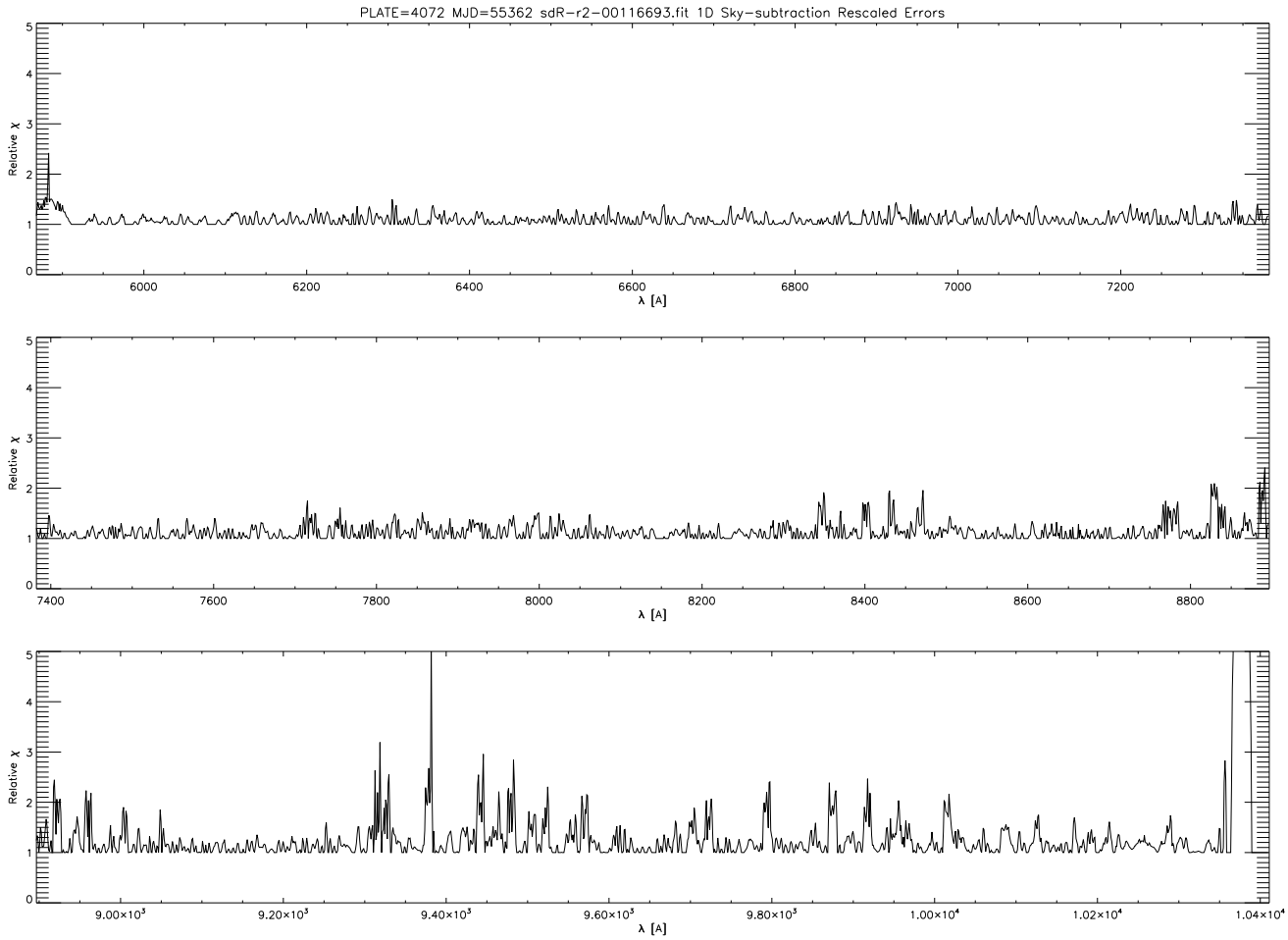

PLATE=4072 MJD=55362 Smooth superflat for sdR-r2-00116693.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

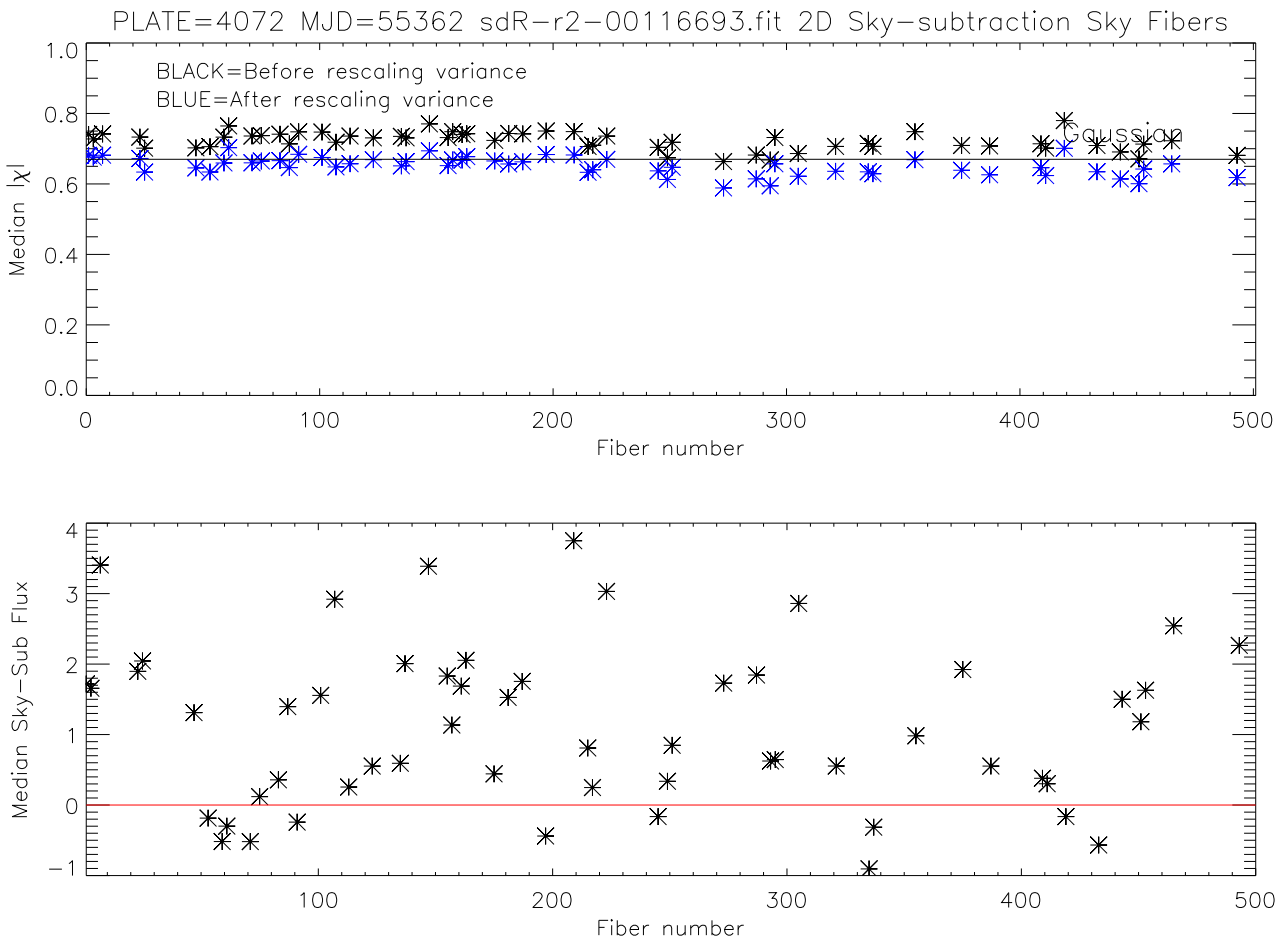

PLATE=4072 MJD=55362 sdR-r2-00116693.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

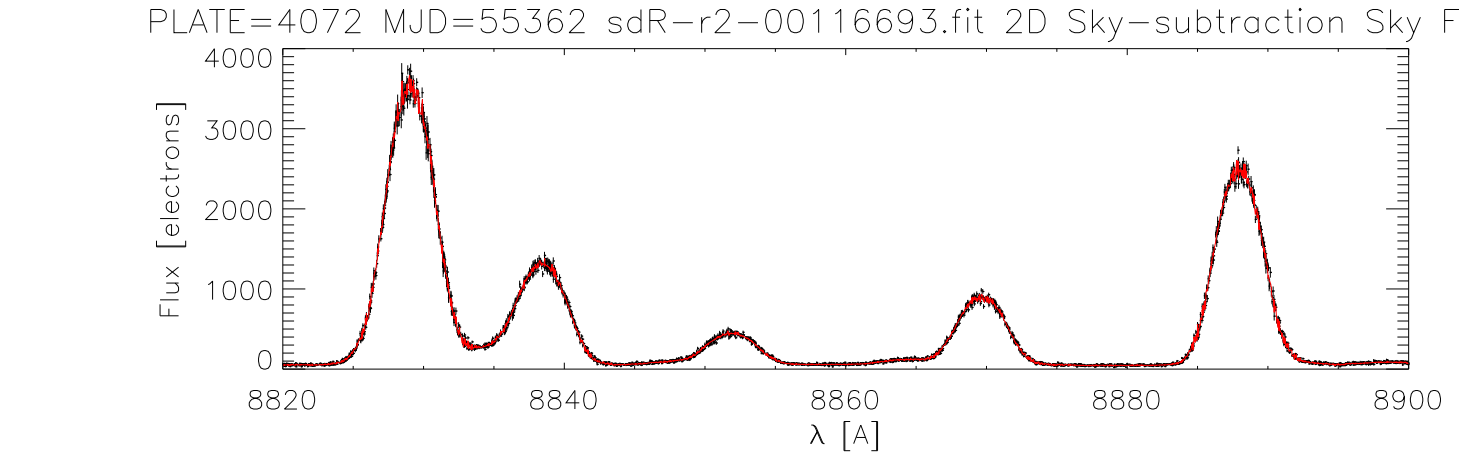

PLATE=4072 MJD=55362 sdR-r2-00116693.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

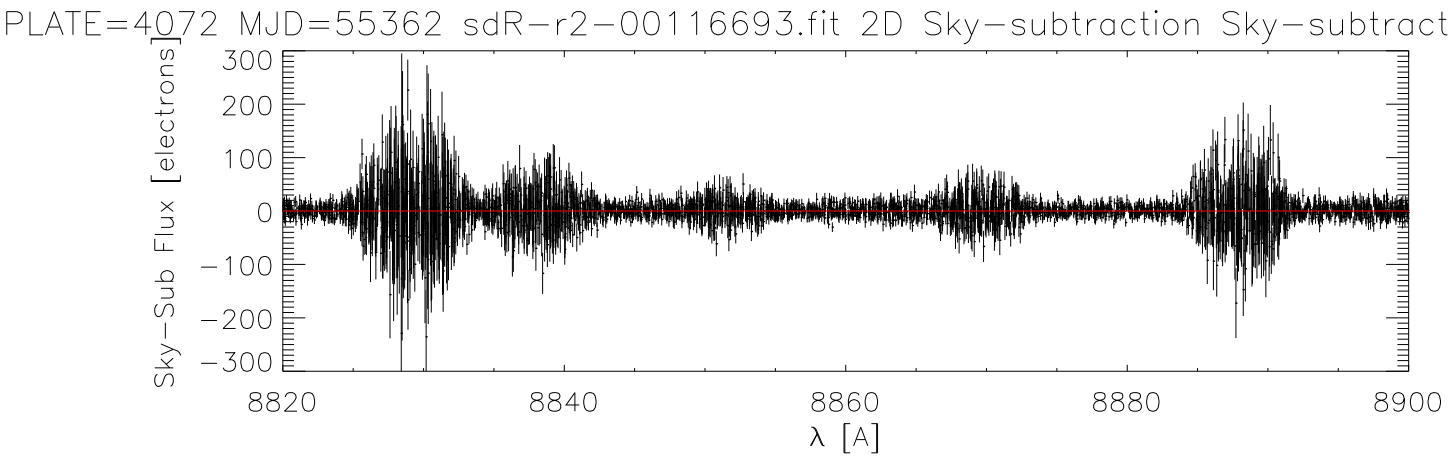

PLATE=4072 MJD=55362 sdR-r2-00116693.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 56

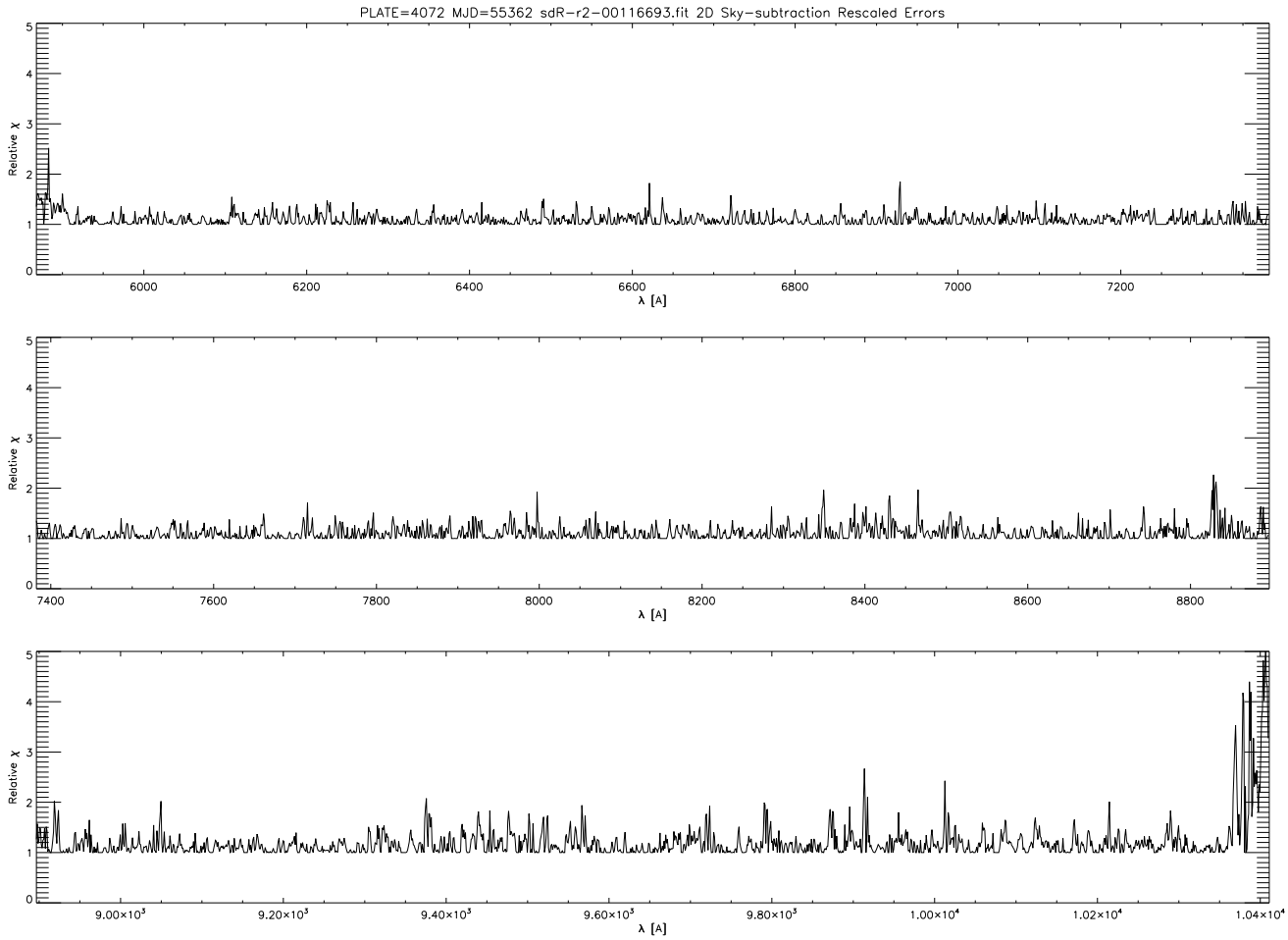


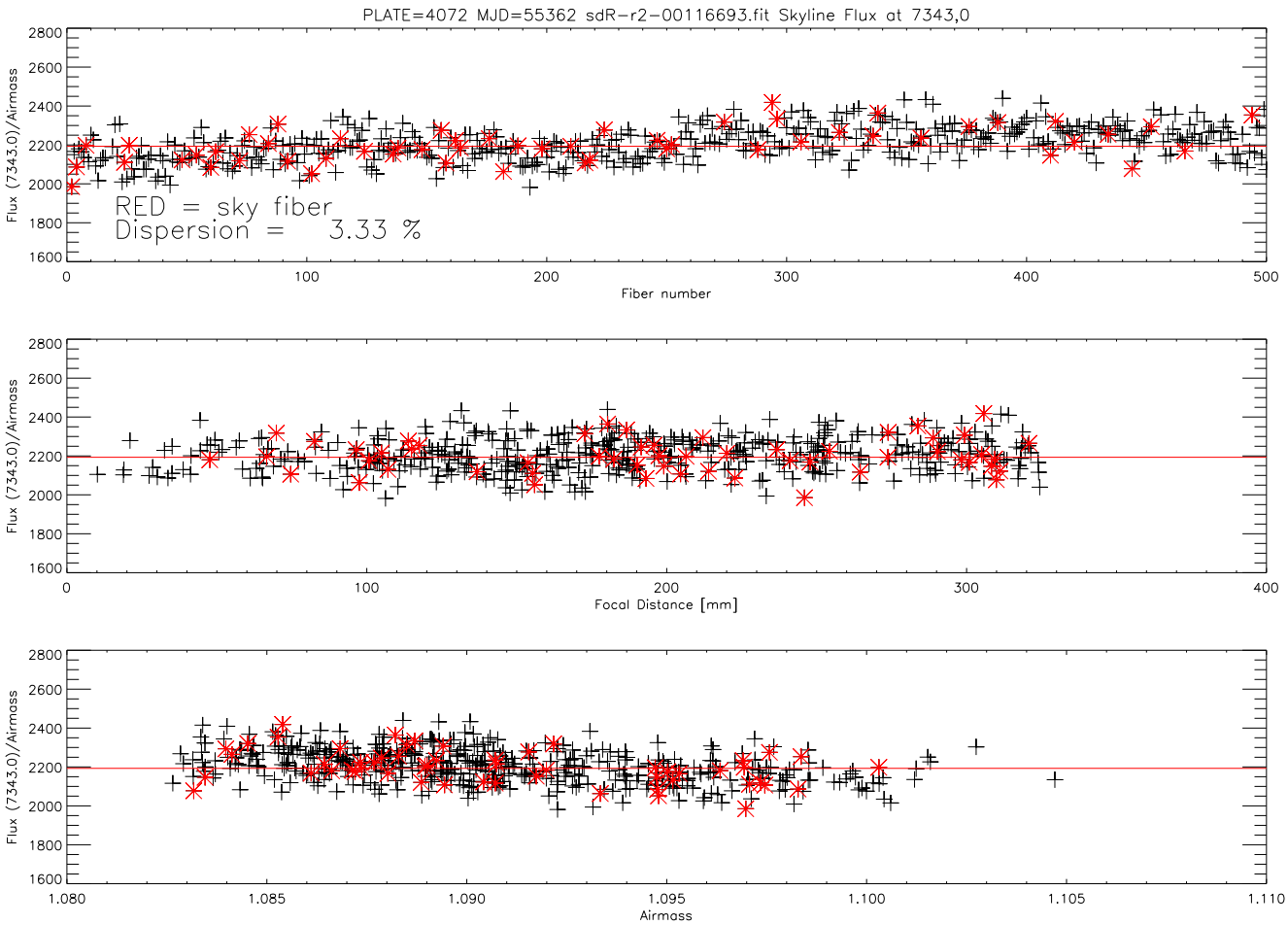

PLATE=4072 MJD=55362 sdR-r2-00116693.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

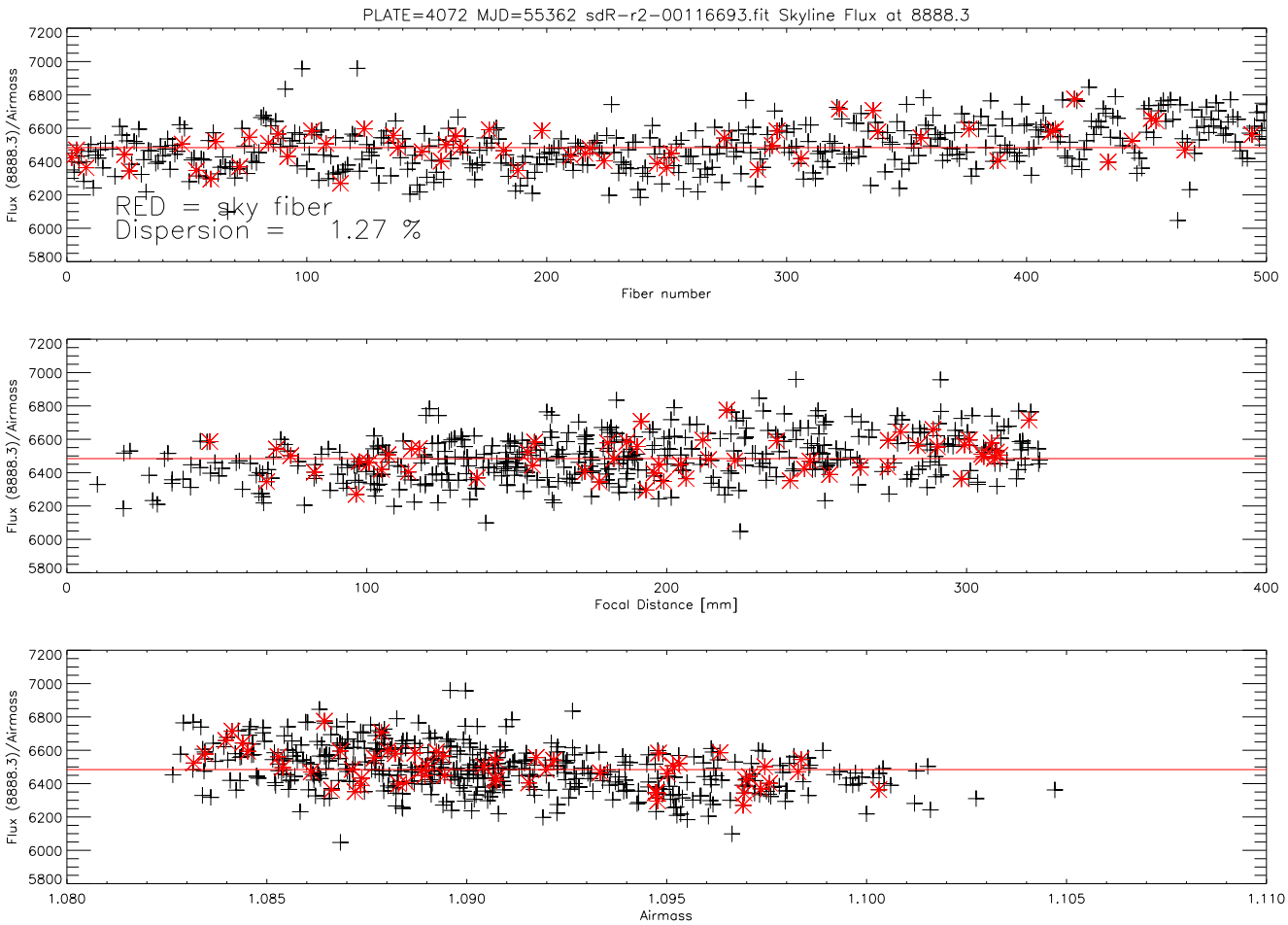

PLATE=4072 MJD=55362 sdR-r2-00116693.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

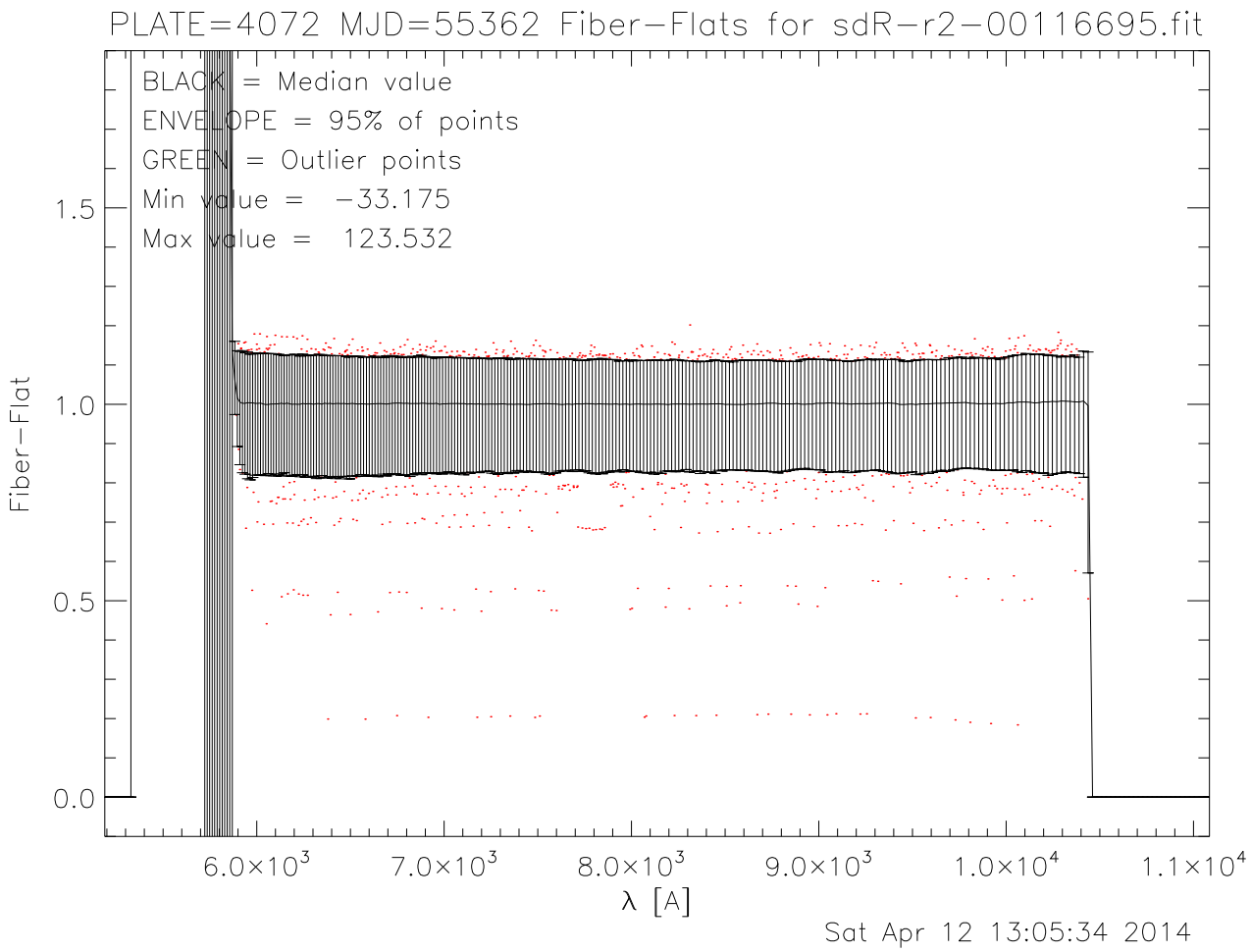

PLATE=4072 MJD=55362 sdR-r2-00116693.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

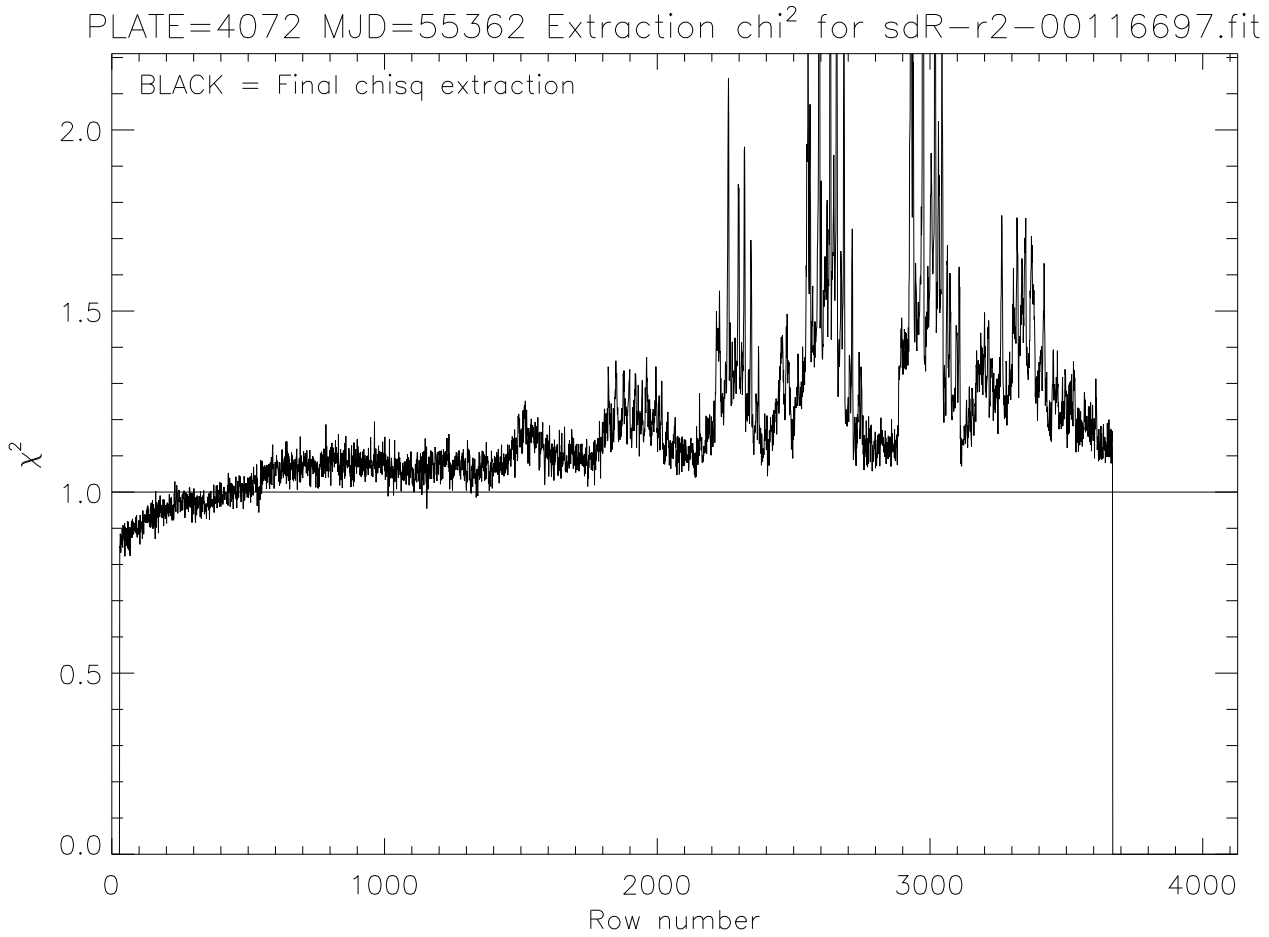
Number of sky fibers = 56

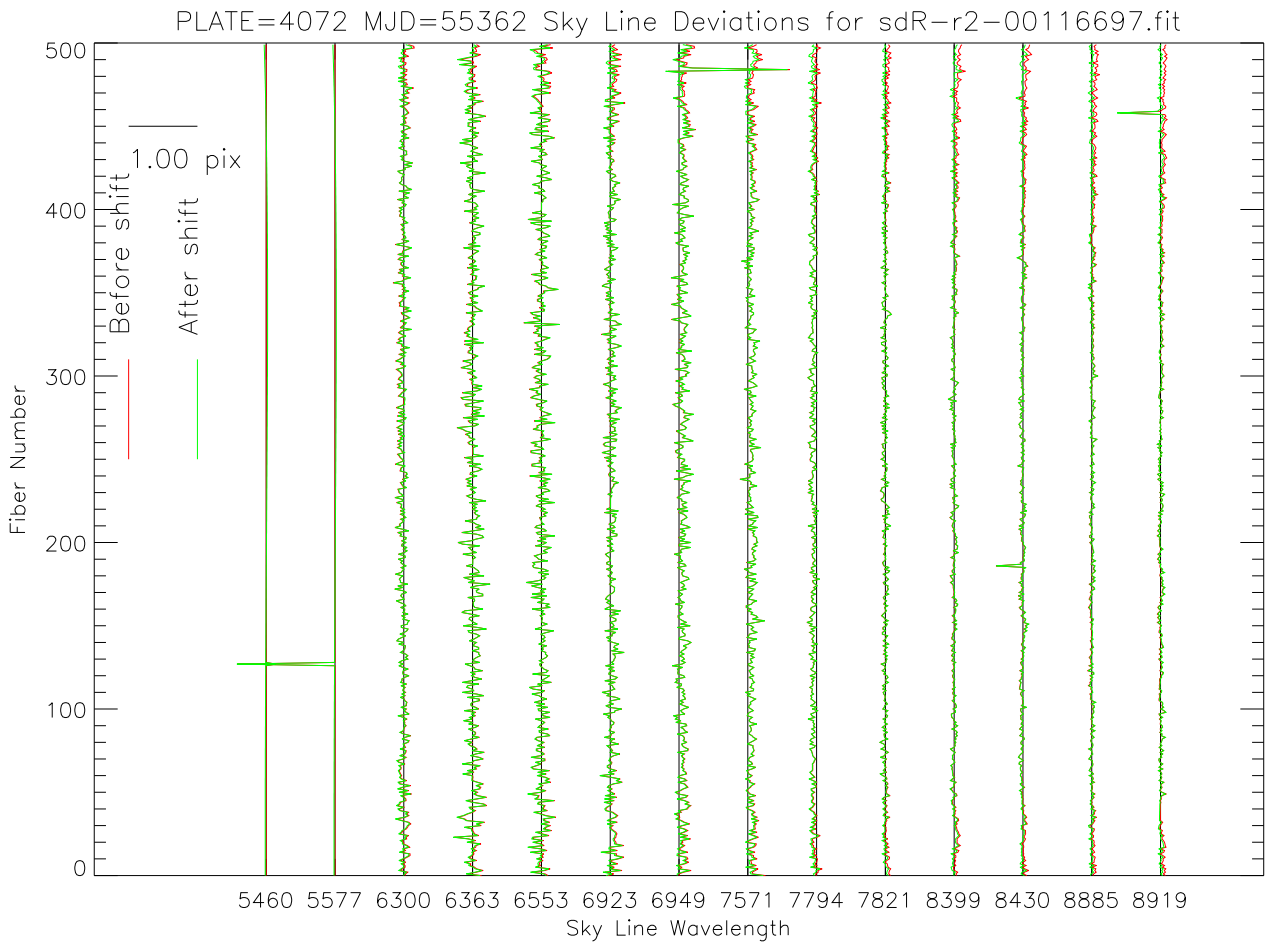


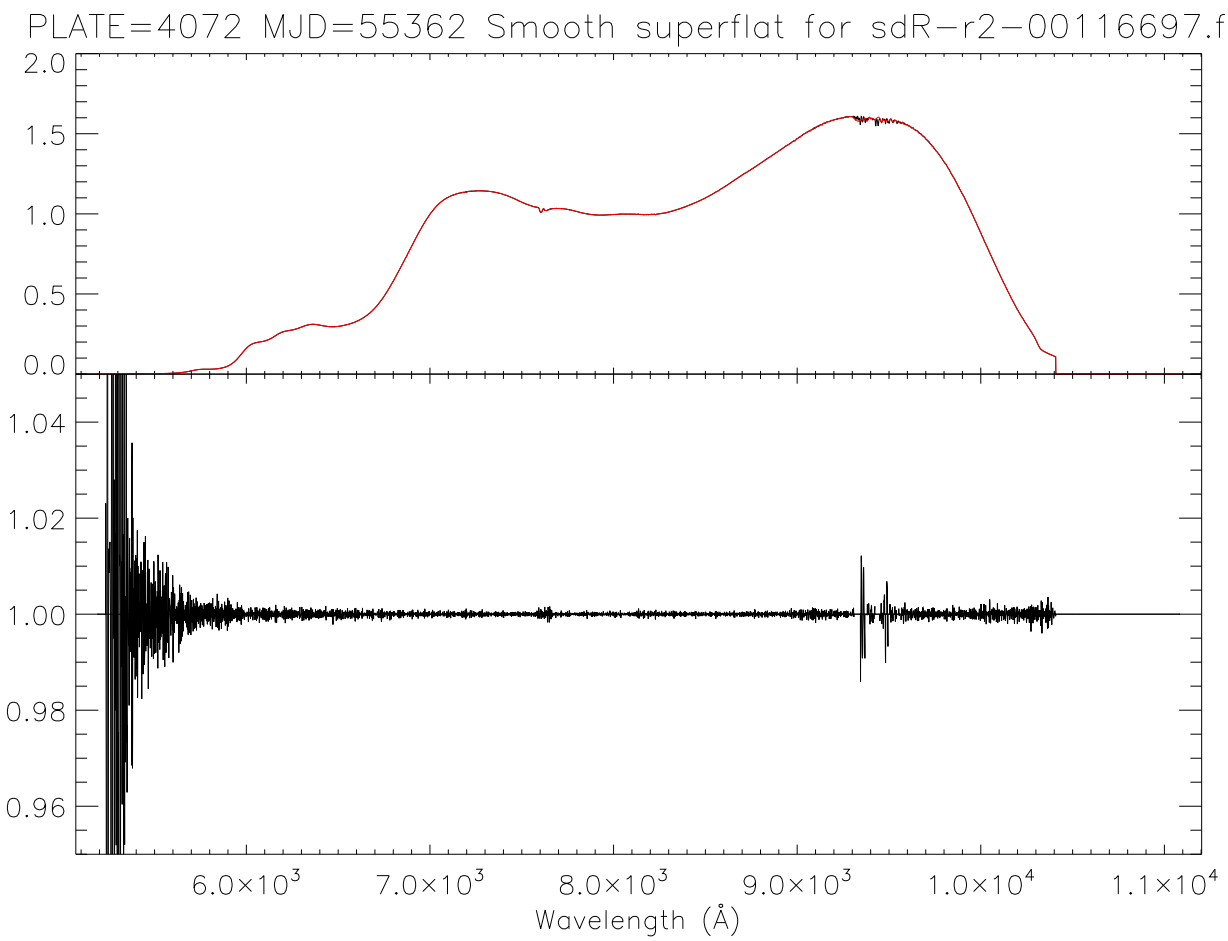

PLATE=4072 MJD=55362 sdR-r2-00116693.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.33 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

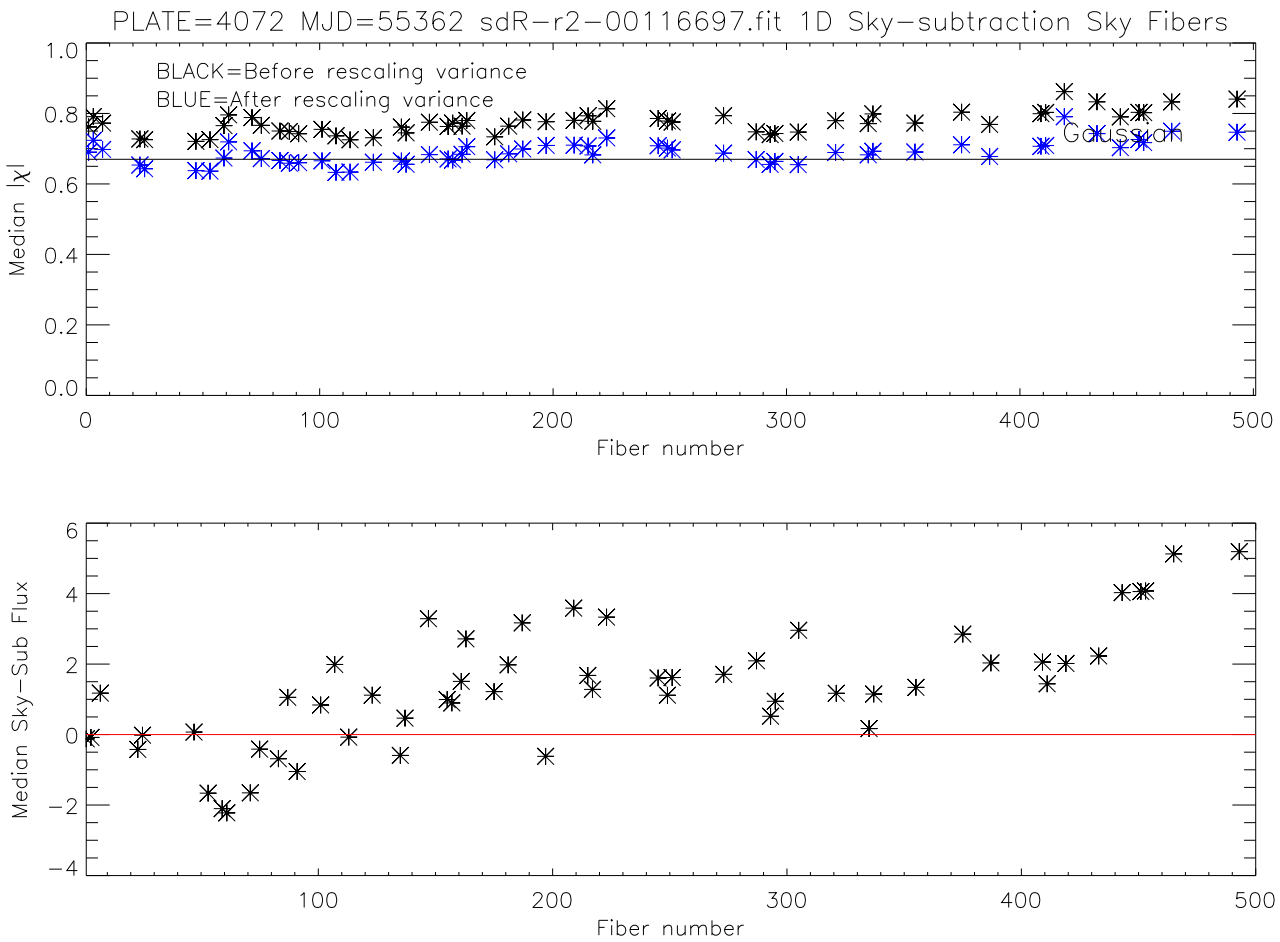

PLATE=4072 MJD=55362 sdR-r2-00116693.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.27 %
Fiber number
Focal Distance [mm]
Airmass

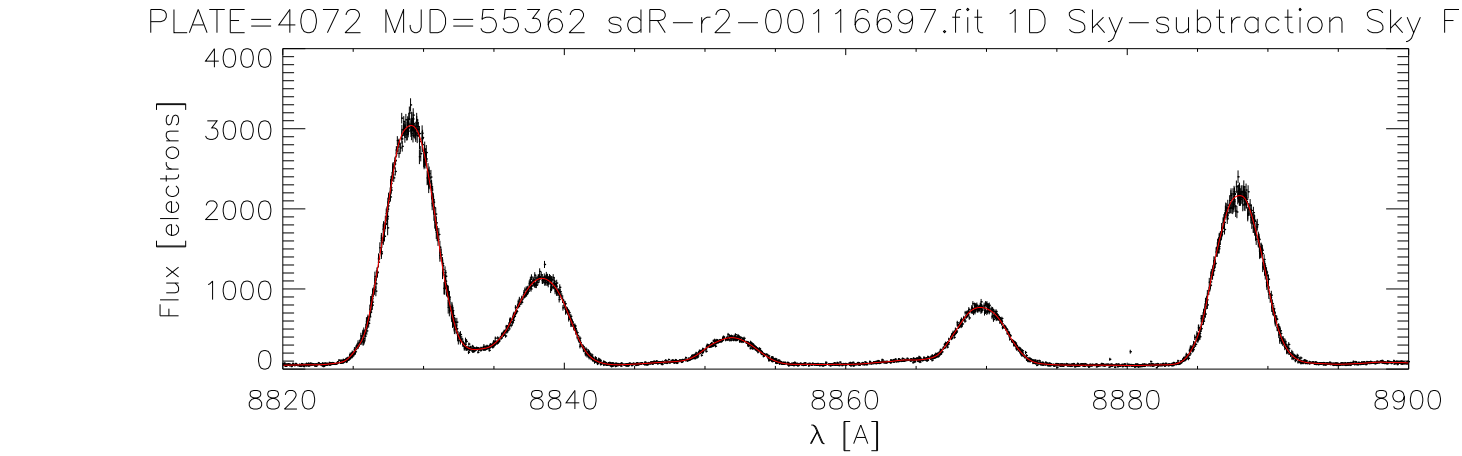

PLATE=4072 MJD=55362 Fiber−Flats for sdR−r2−00116695.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −33.175
Max value = 123.532
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Sat Apr 12 13:05:34 2014

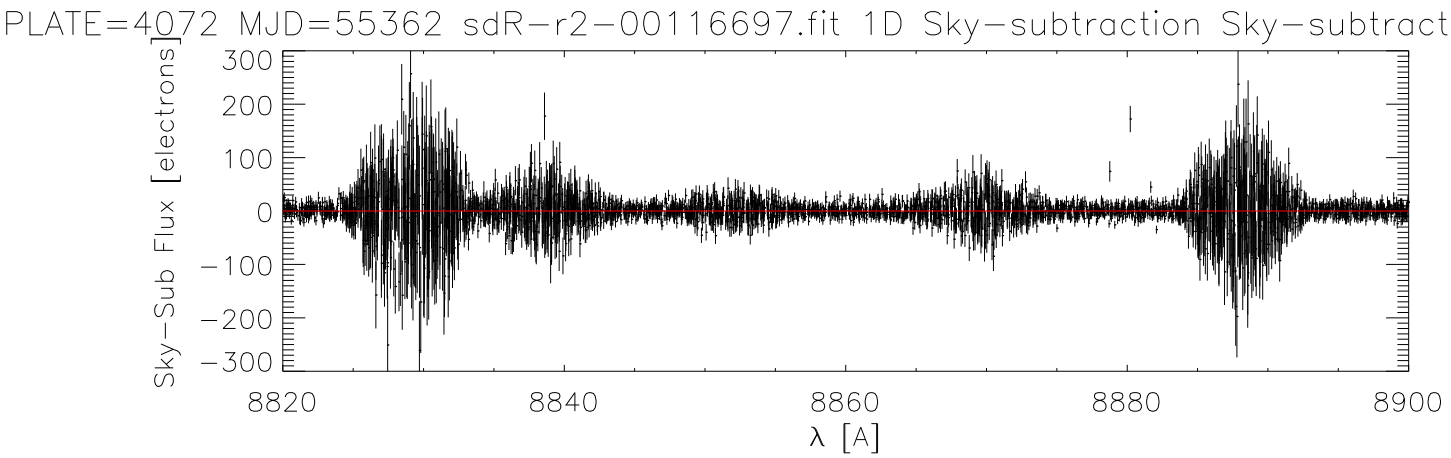

PLATE=4072 MJD=55362 Extraction chi$^2$ for sdR−r2−00116697.fit
BLACK = Final chisq extraction
$\chi^2$
2.0
1.5
1.0
0.5
0.0
0
1000
2000
3000
4000
Row number


PLATE=4072 MJD=55362 Sky Line Deviations for sdR-r2-00116697.fit
Fiber Number
500
400
300
200
100
0
1.00 pix
Before shift
After shift
5460 5577 6300 6363 6553 6923 6949 7571 7794 7821 8399 8430 8885 8919
Sky Line Wavelength

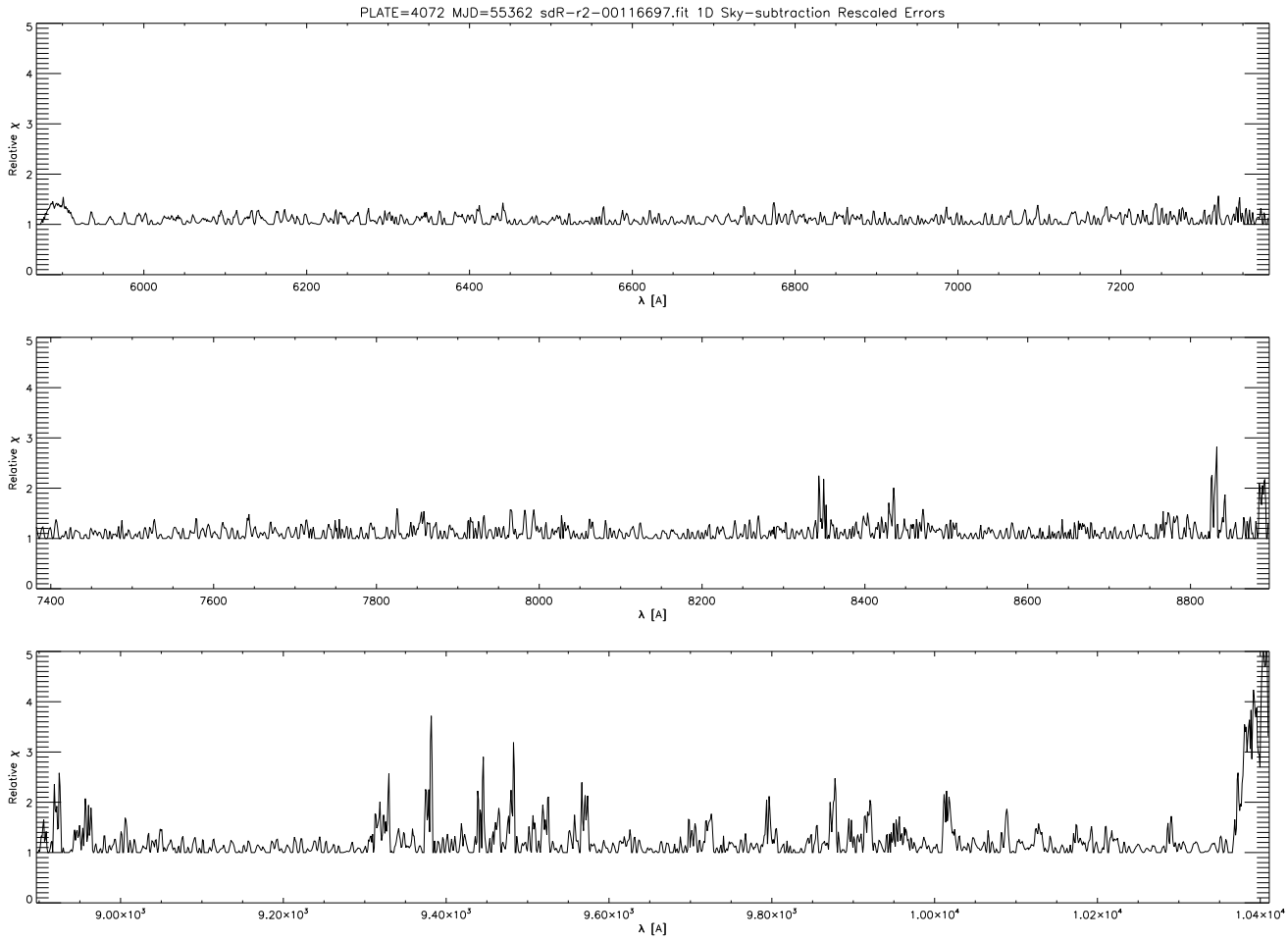

PLATE=4072 MJD=55362 Smooth superflat for sdR-r2-00116697.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

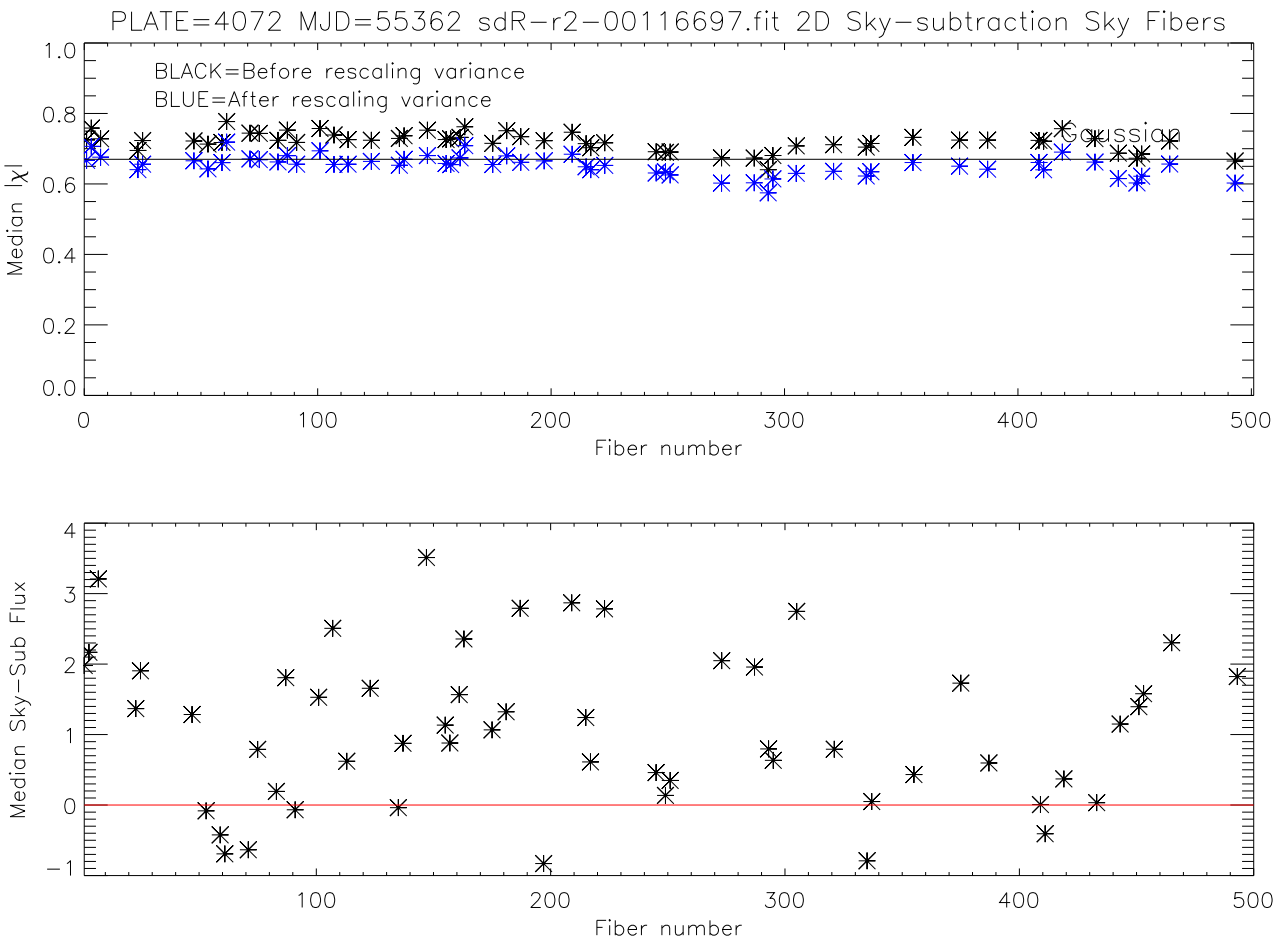

PLATE=4072 MJD=55362 sdR-r2-00116697.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

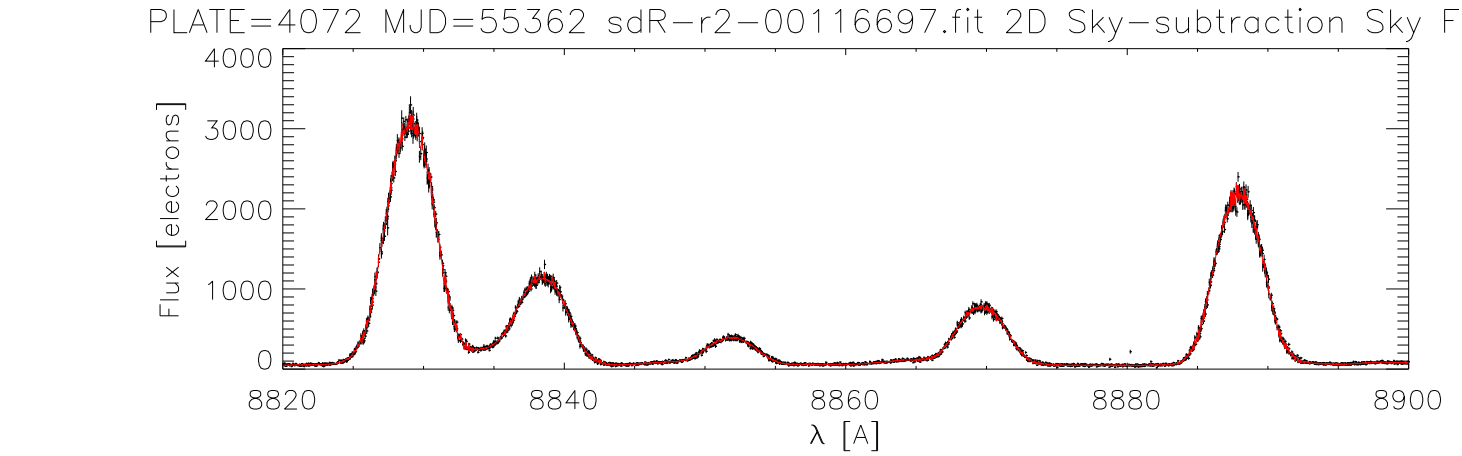

PLATE=4072 MJD=55362 sdR-r2-00116697.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

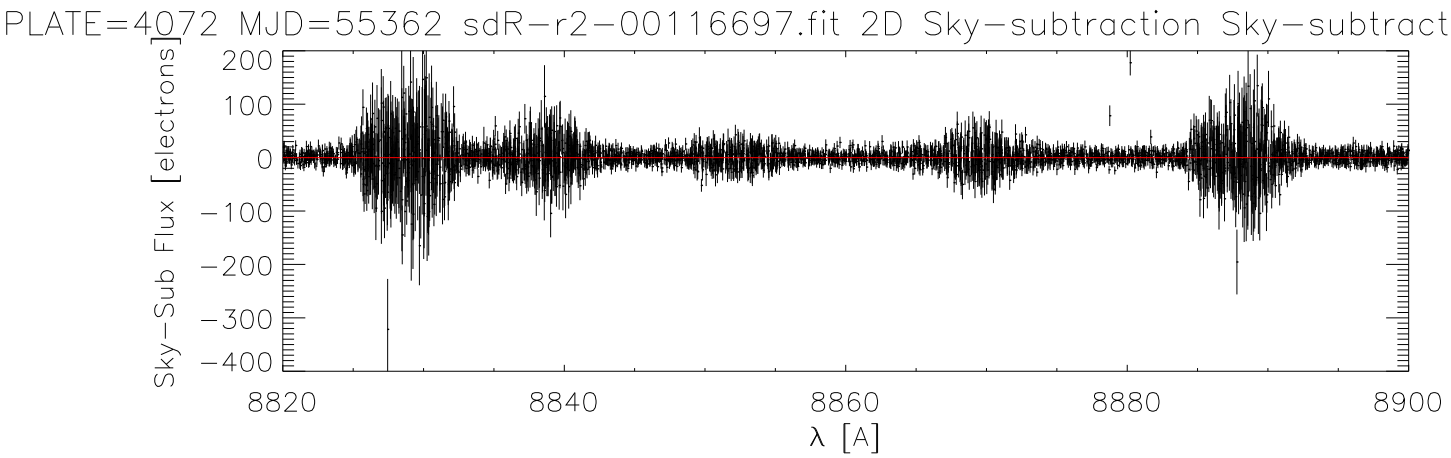

PLATE=4072 MJD=55362 sdR-r2-00116697.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 56

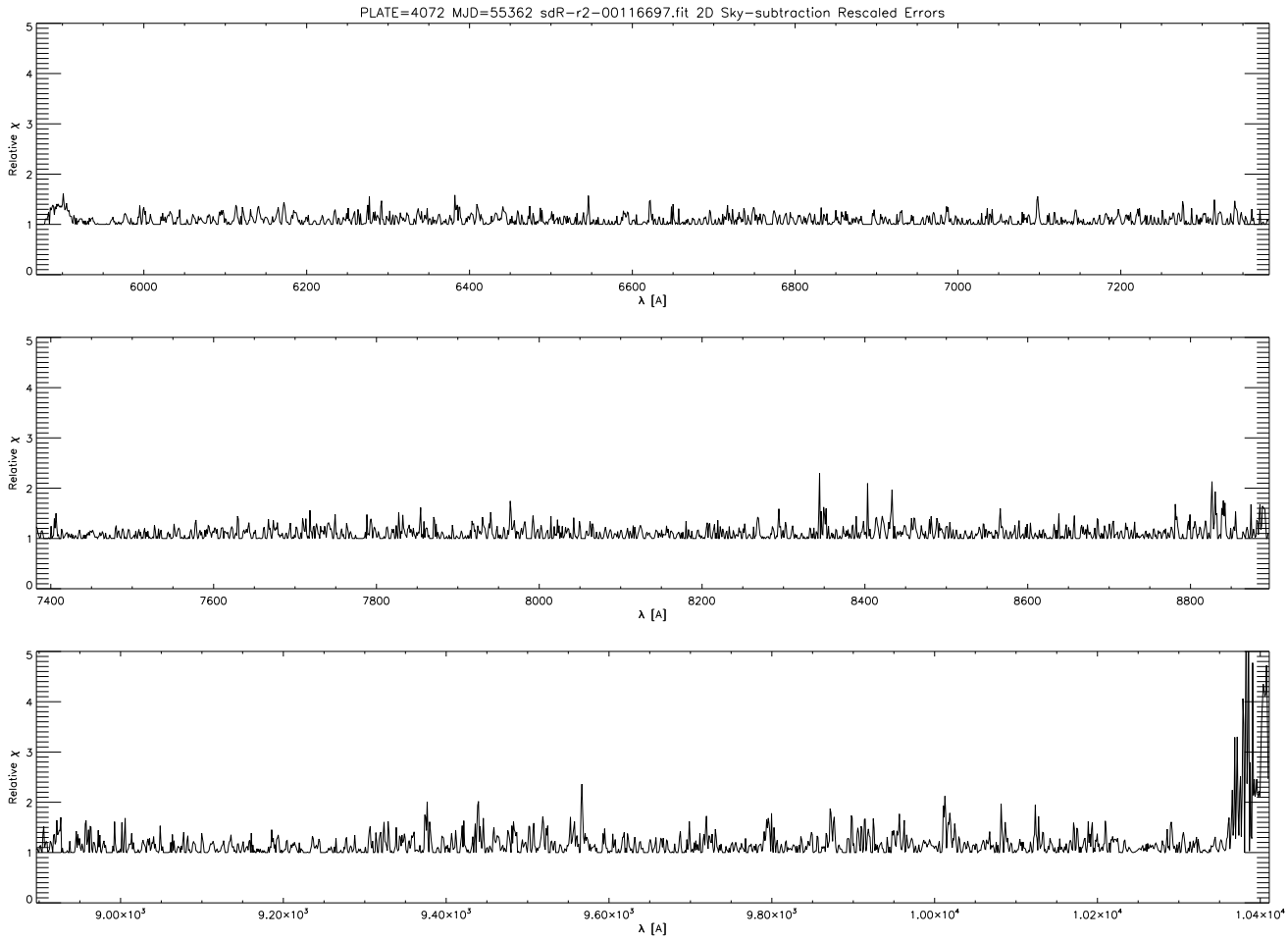


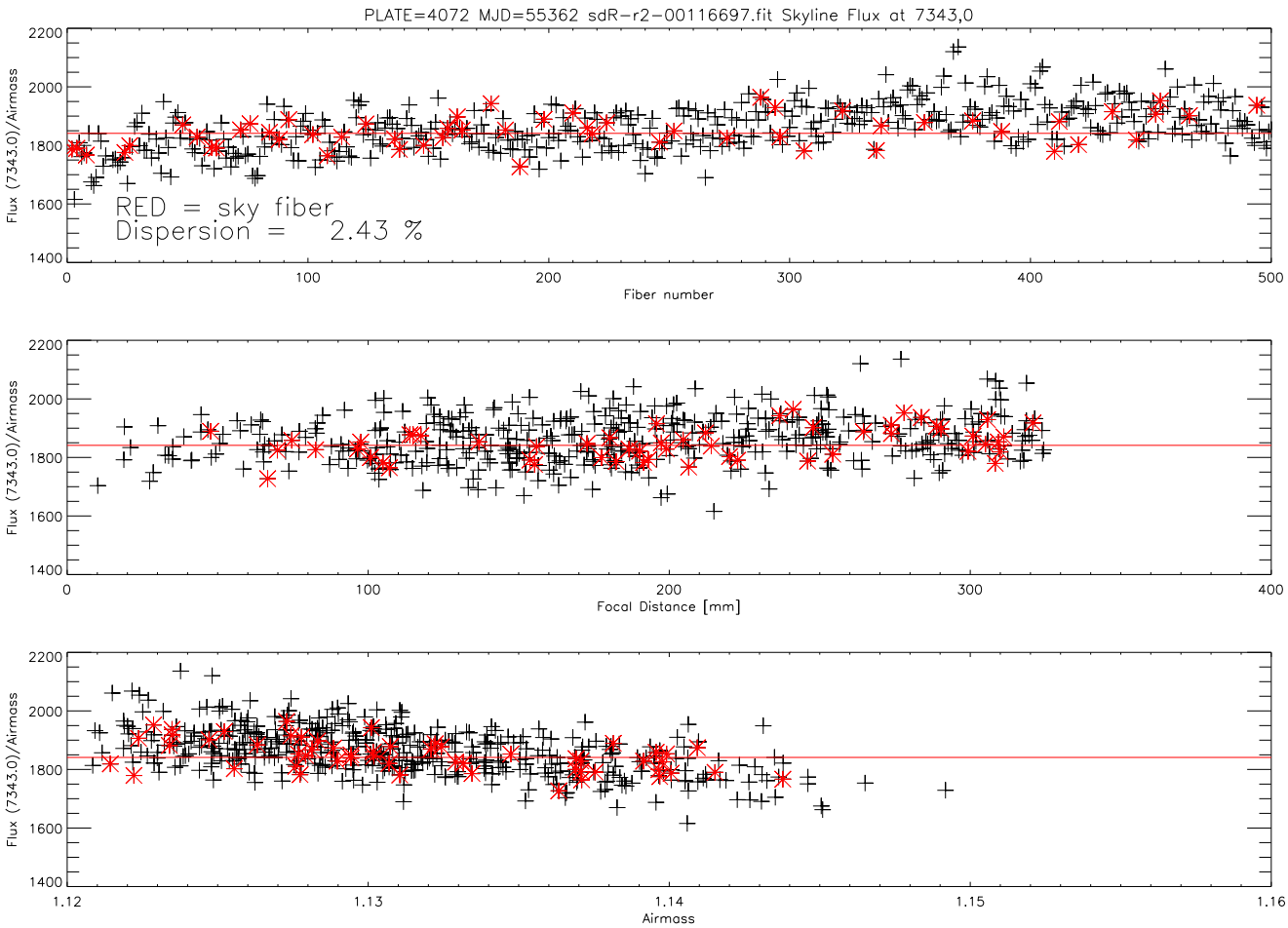

PLATE=4072 MJD=55362 sdR-r2-00116697.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

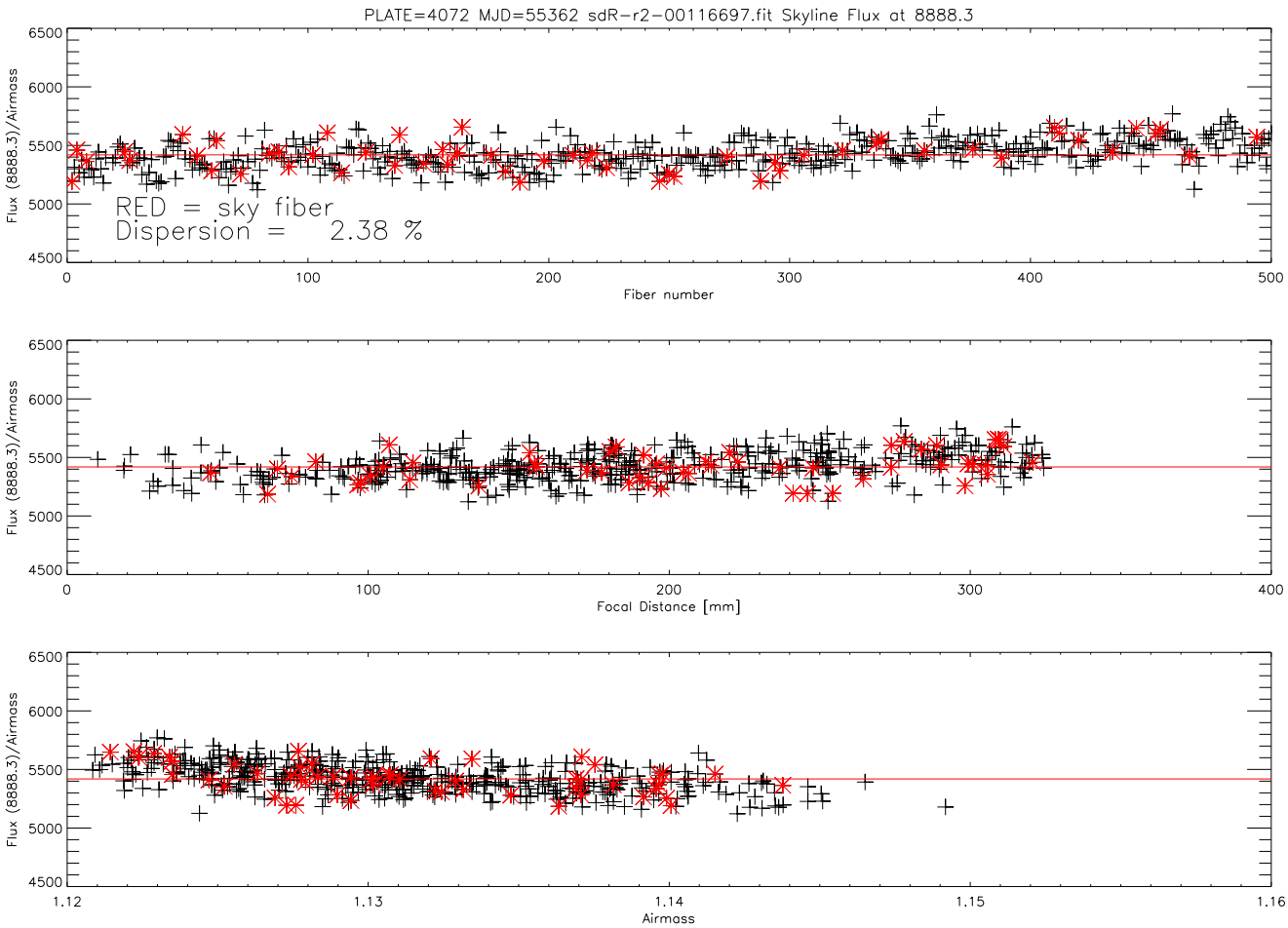

PLATE=4072 MJD=55362 sdR-r2-00116697.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]


PLATE=4072 MJD=55362 sdR-r2-00116697.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
-400
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 56




PLATE=4072 MJD=55362 sdR-r2-00116697.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.43 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass


PLATE=4072 MJD=55362 sdR-r2-00116697.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.38 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass