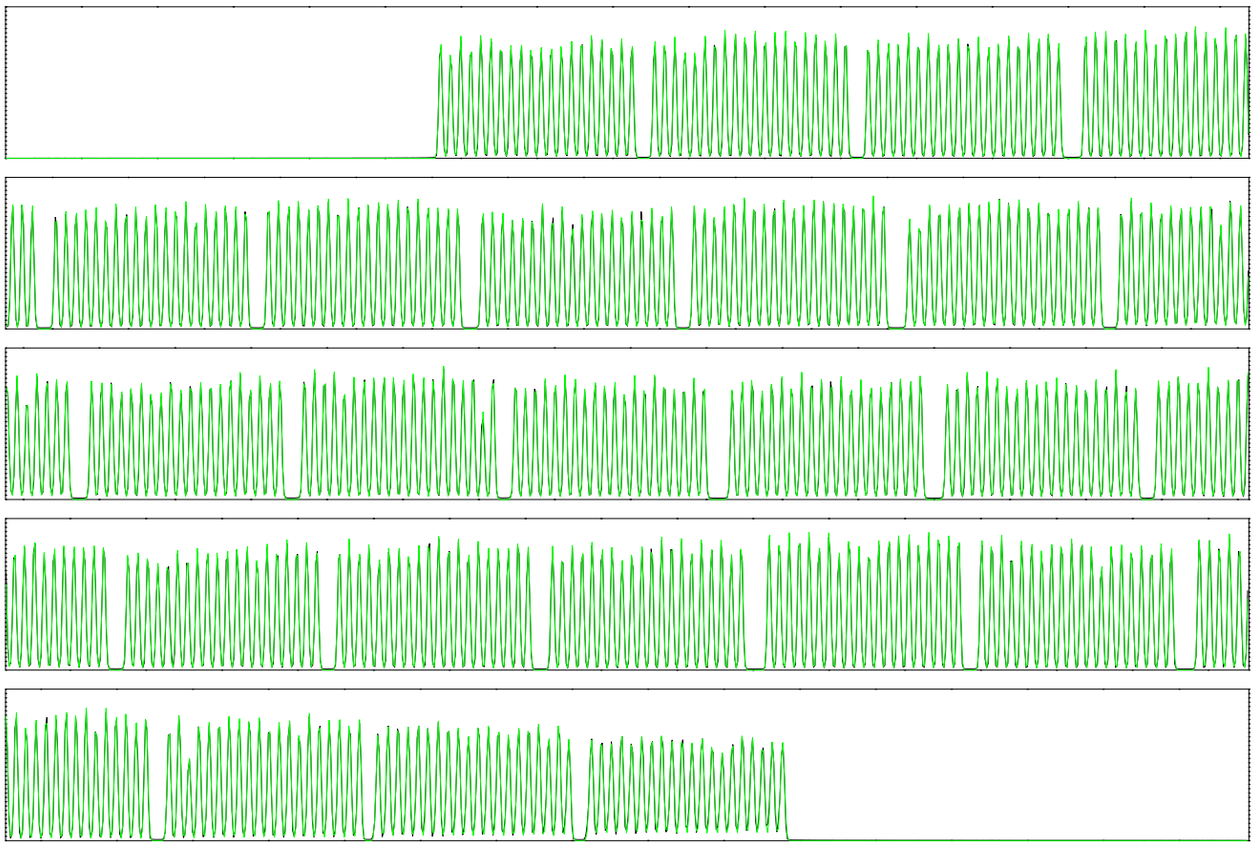
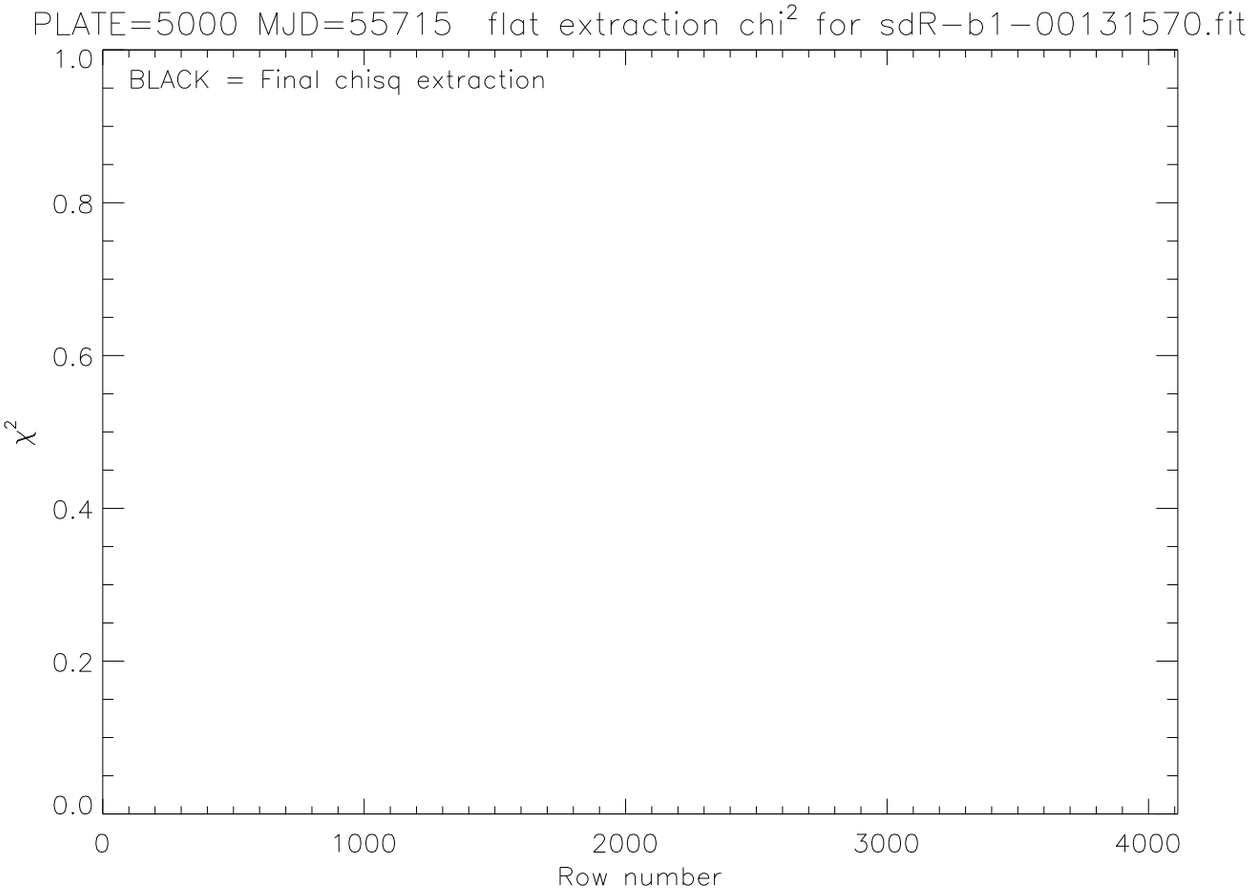
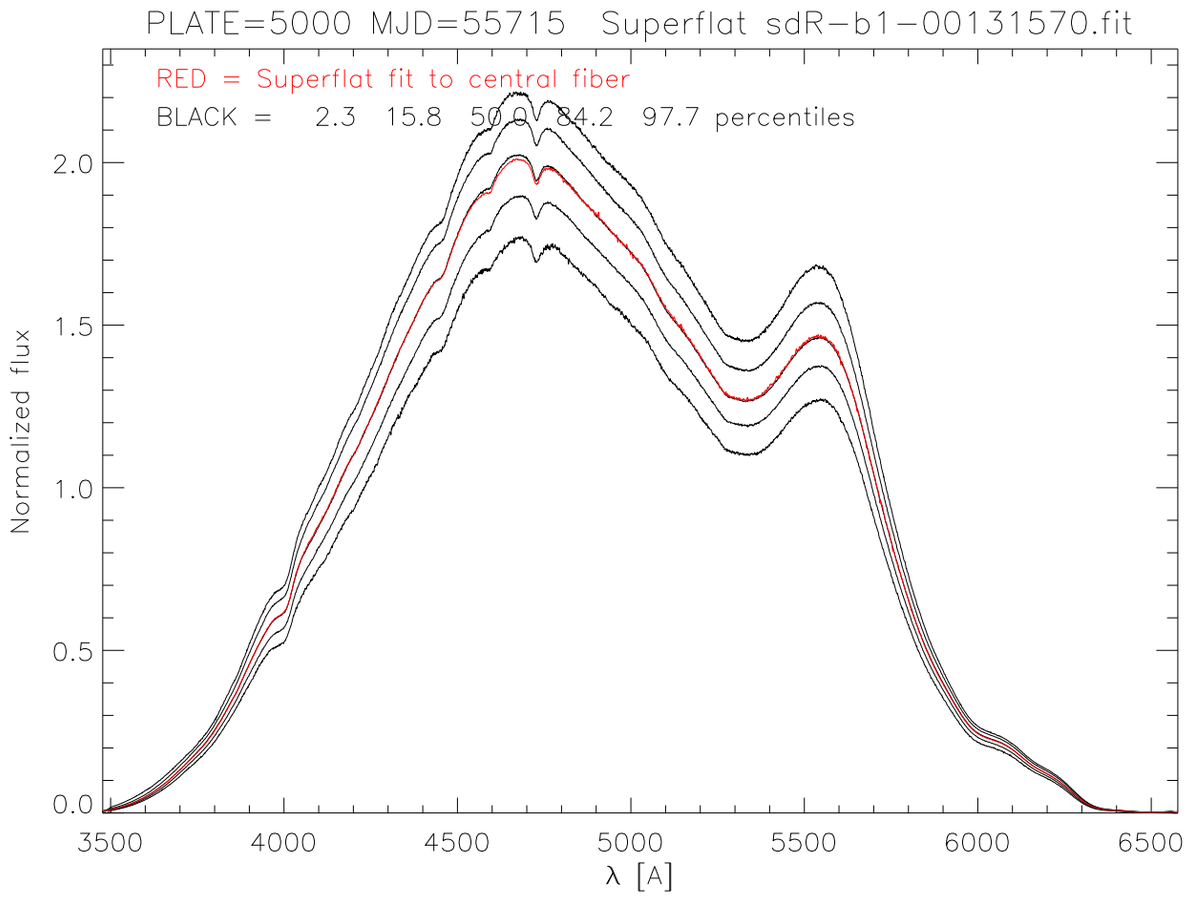
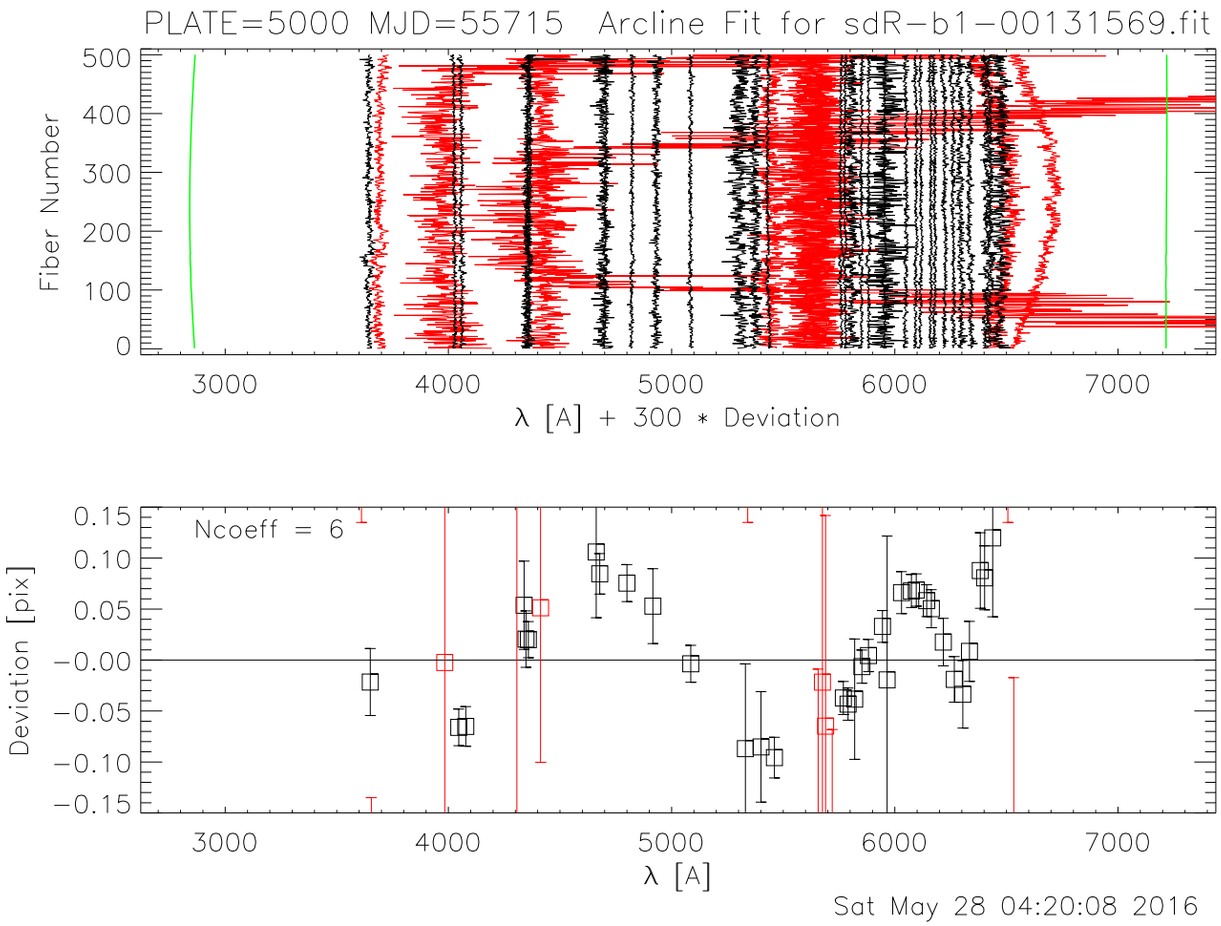
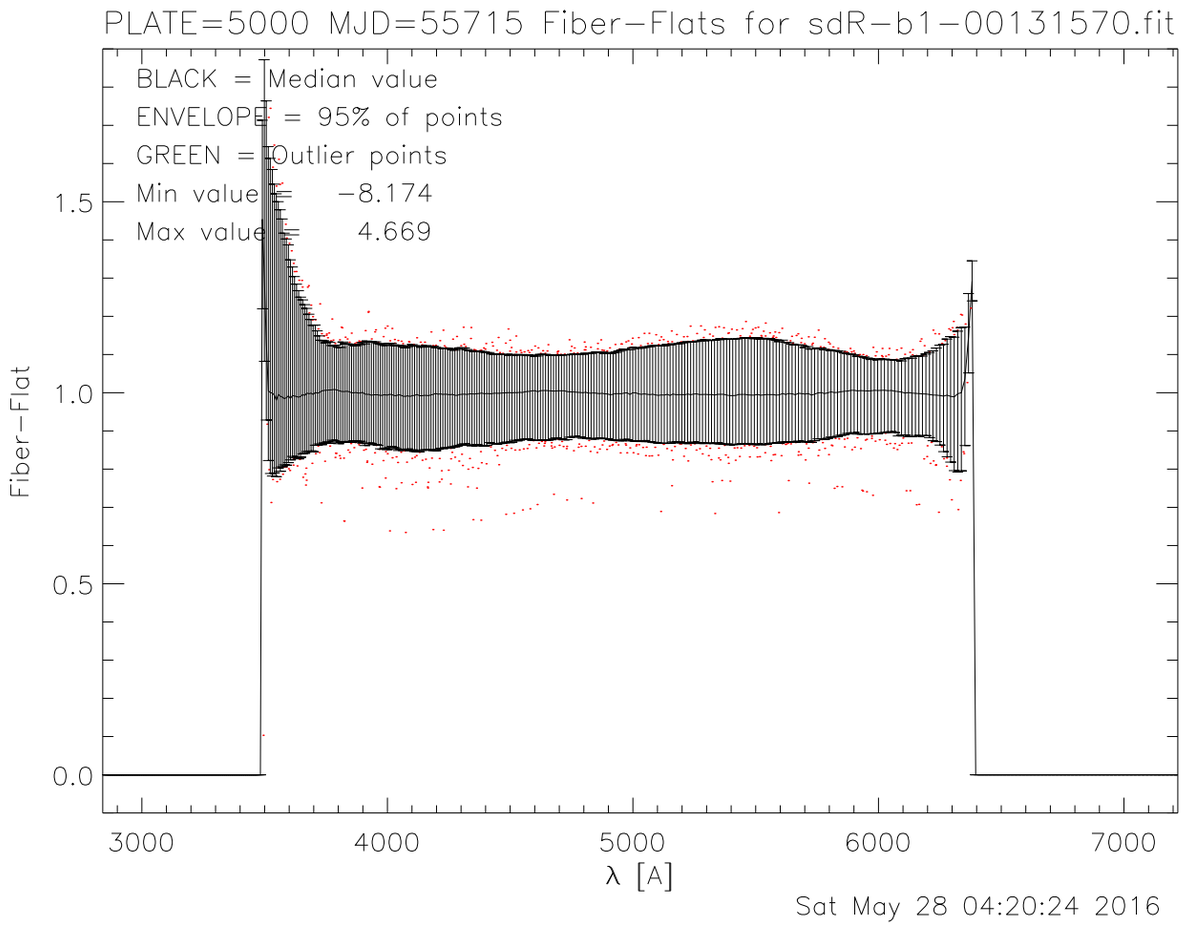
PLATE=5000 MJD=55715 Traces sdR-b1-00131570.fit

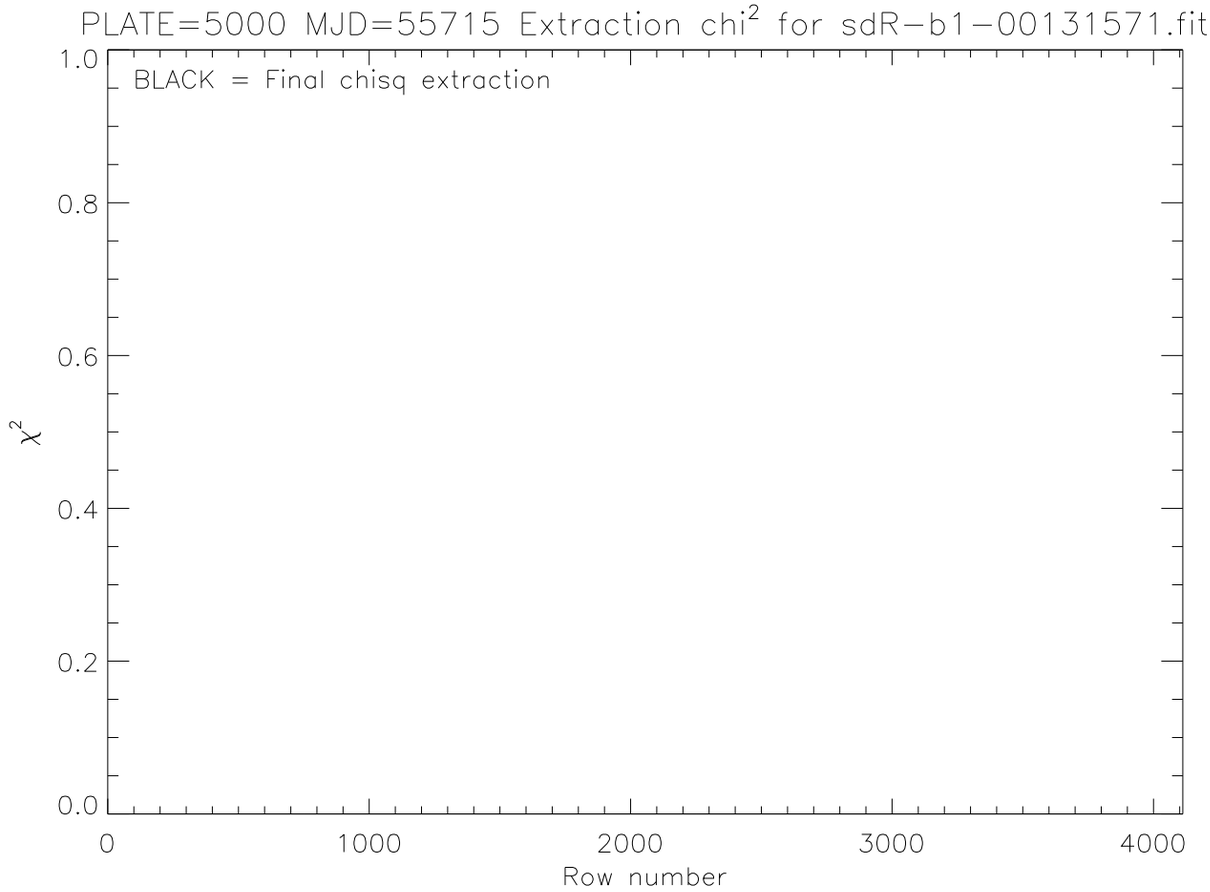


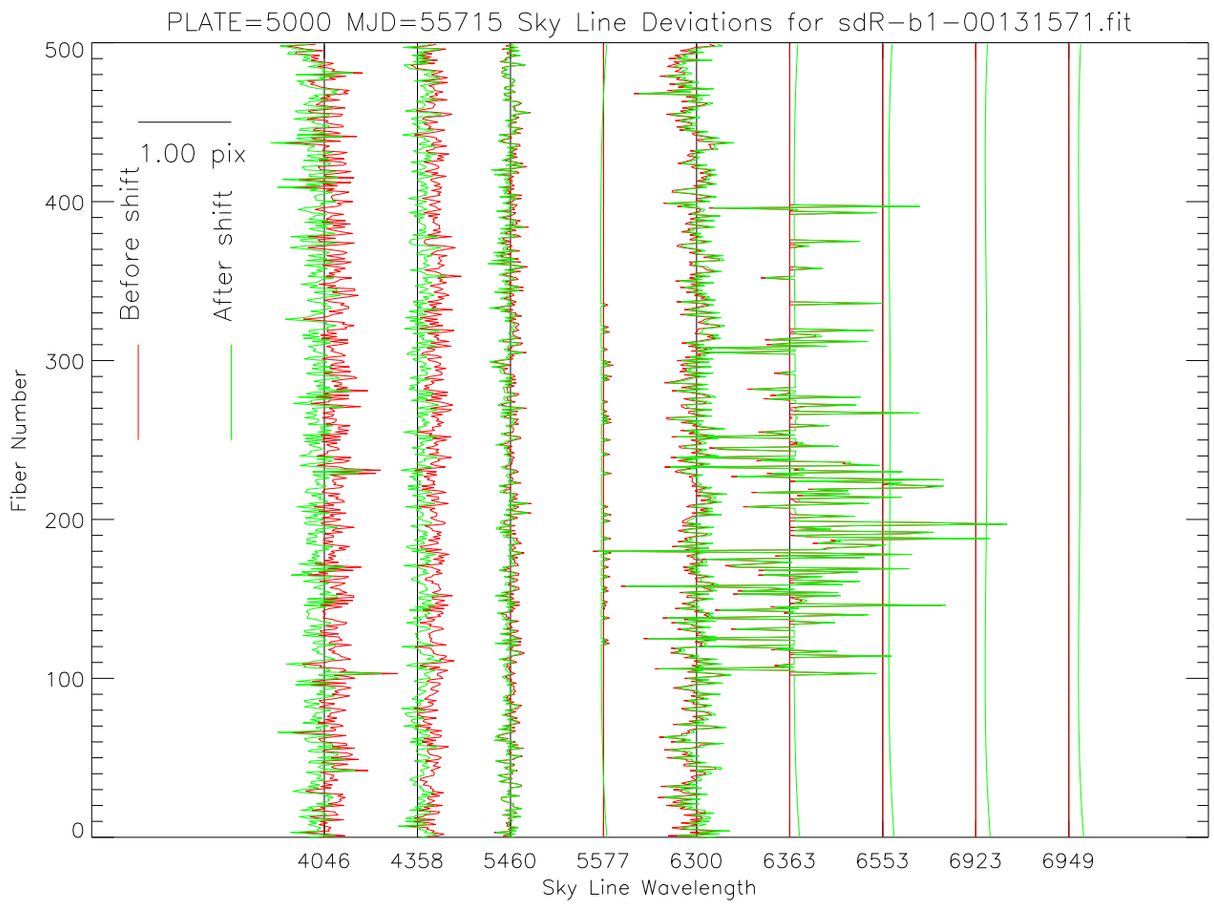

PLATE=5000 MJD=55715 flat extraction chi^2 for sdR-b1-00131570.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number

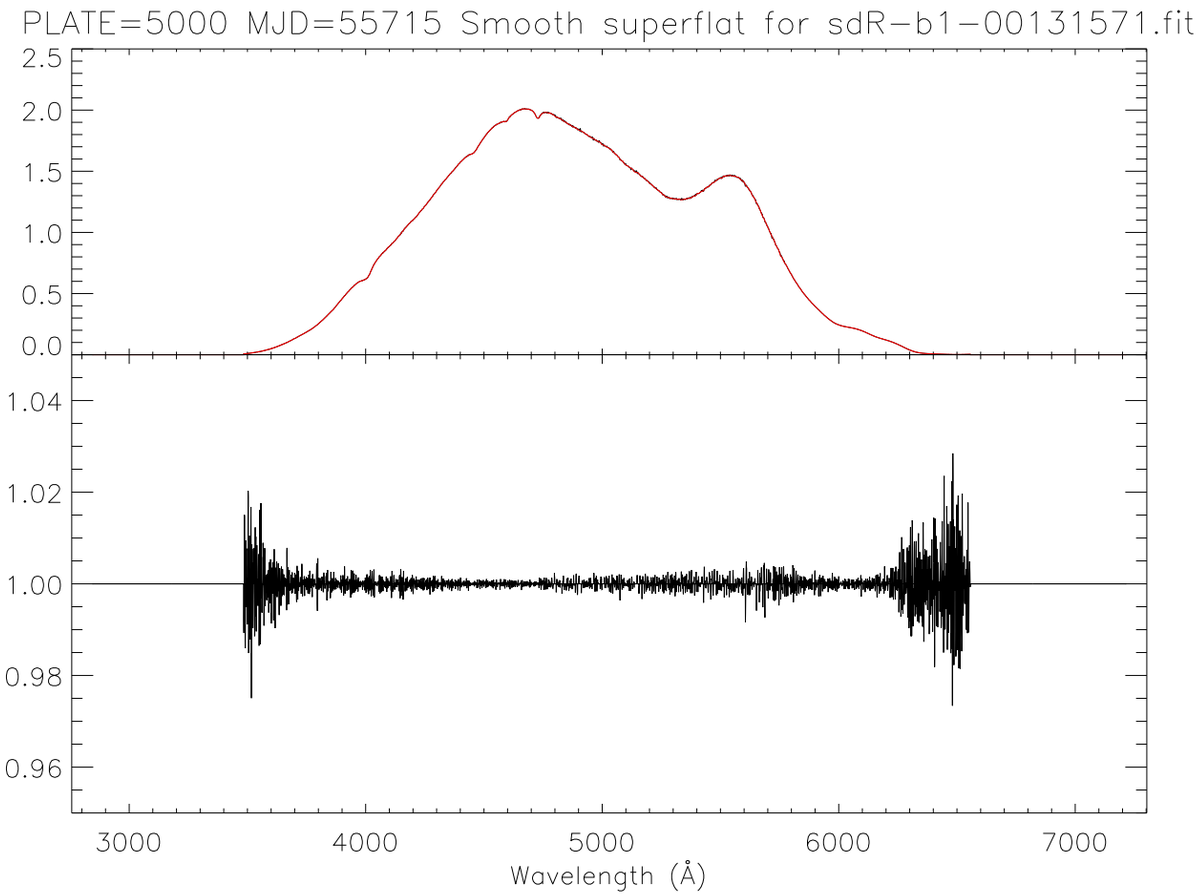

PLATE=5000 MJD=55715 Superflat sdR-b1-00131570.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
0.0
0.5
1.0
1.5
2.0
3500
4000
4500
5000
5500
6000
6500
λ [A]

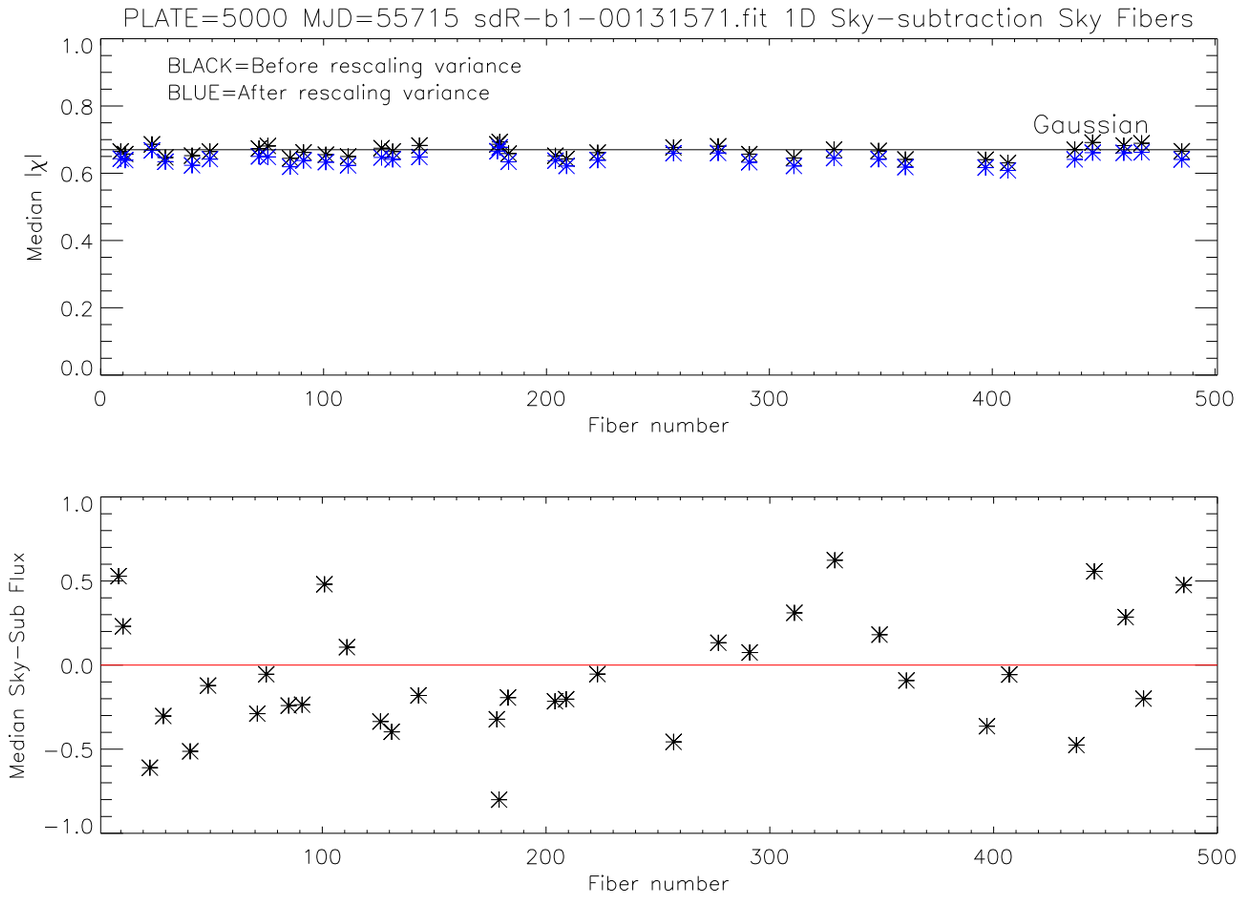

PLATE=5000 MJD=55715 Arcline Fit for sdR-b1-00131569.fit
Fiber Number
500
400
300
200
100
0
3000
4000
5000
6000
7000
λ [A] + 300 * Deviation
Ncoeff = 6
Deviation [pix]
0.15
0.10
0.05
−0.00
−0.05
−0.10
−0.15
3000
4000
5000
6000
7000
λ [A]
Sat May 28 04:20:08 2016

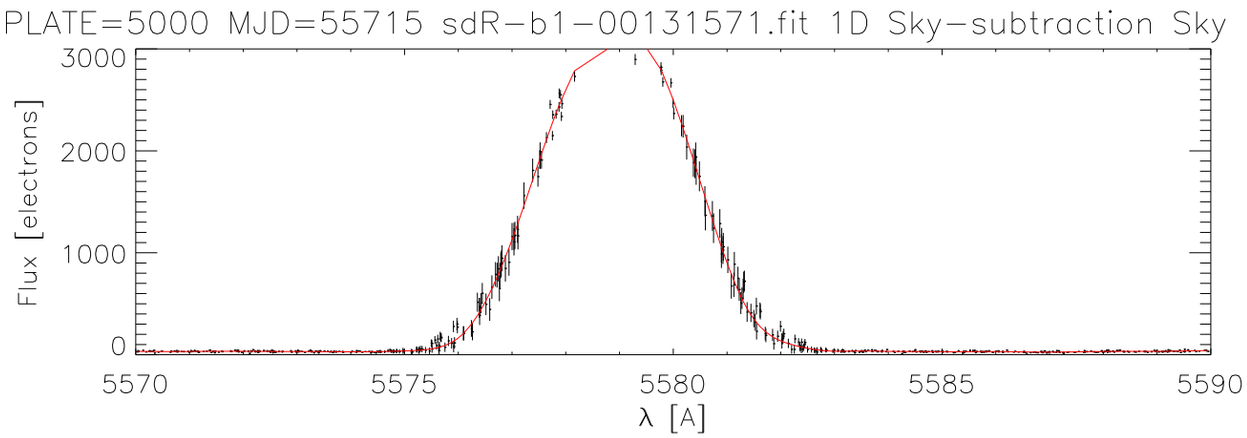

PLATE=5000 MJD=55715 Fiber−Flats for sdR−b1−00131570.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −8.174
Max value = 4.669
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sat May 28 04:20:24 2016

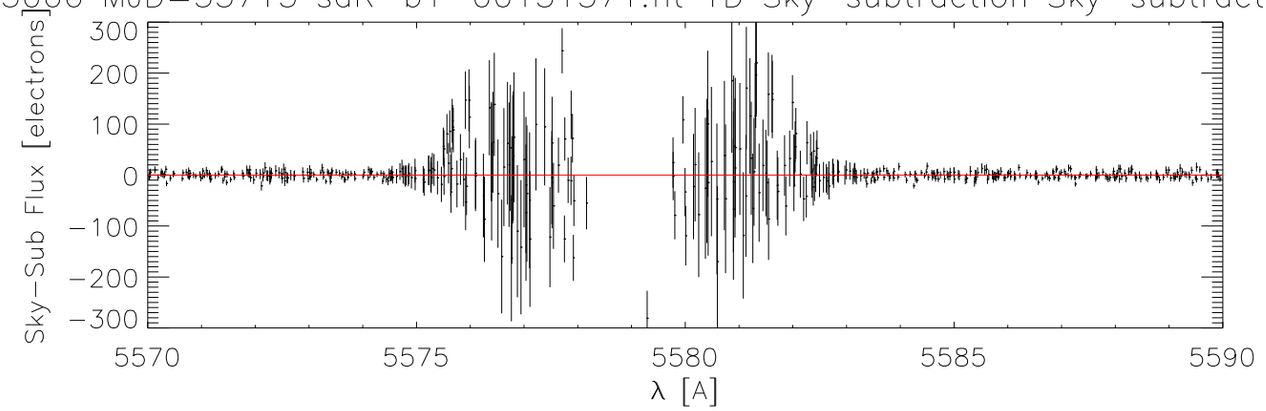

PLATE=5000 MJD=55715 Extraction chi^2 for sdR−b1−00131571.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=5000 MJD=55715 Sky Line Deviations for sdR-b1-00131571.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

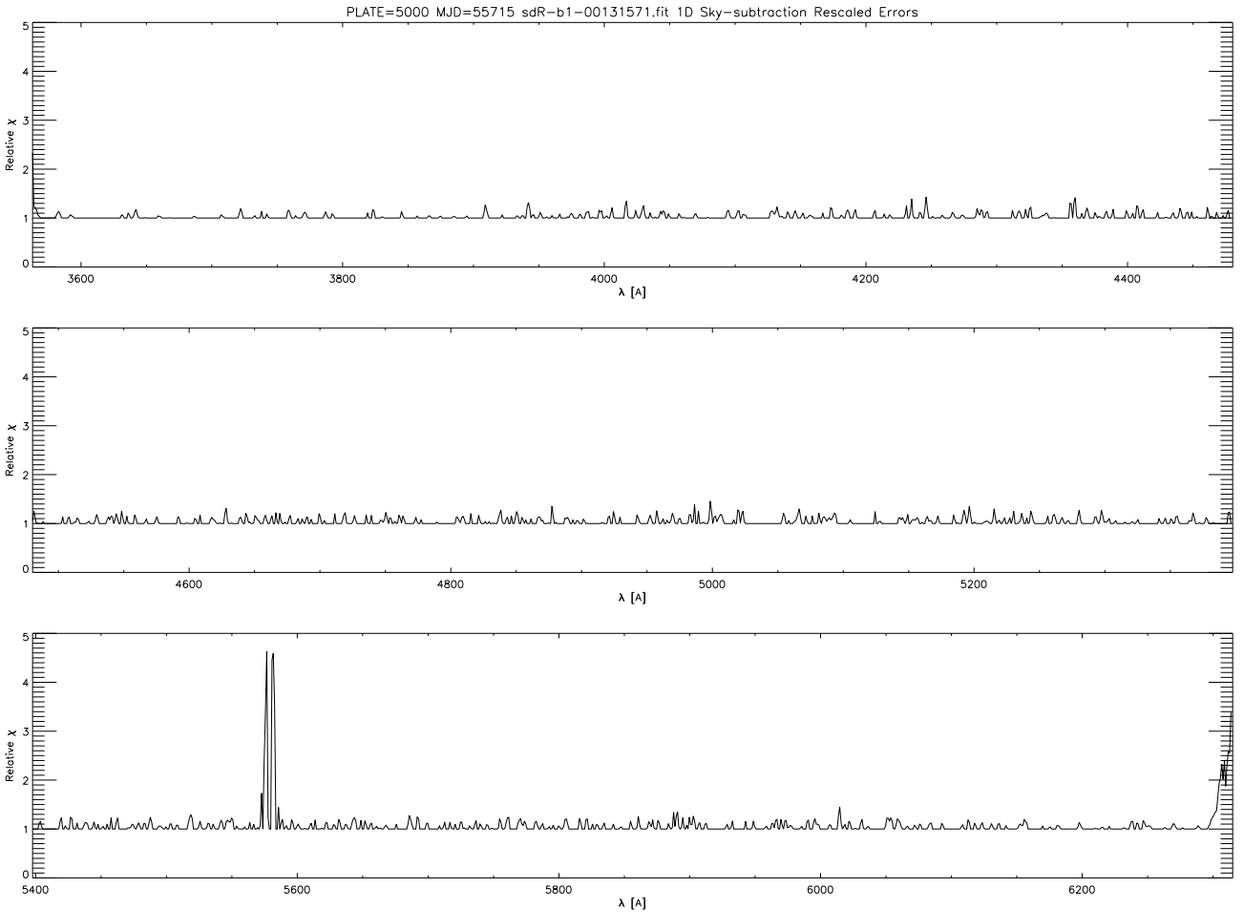

PLATE=5000 MJD=55715 Smooth superflat for sdR-b1-00131571.fit
2.5
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

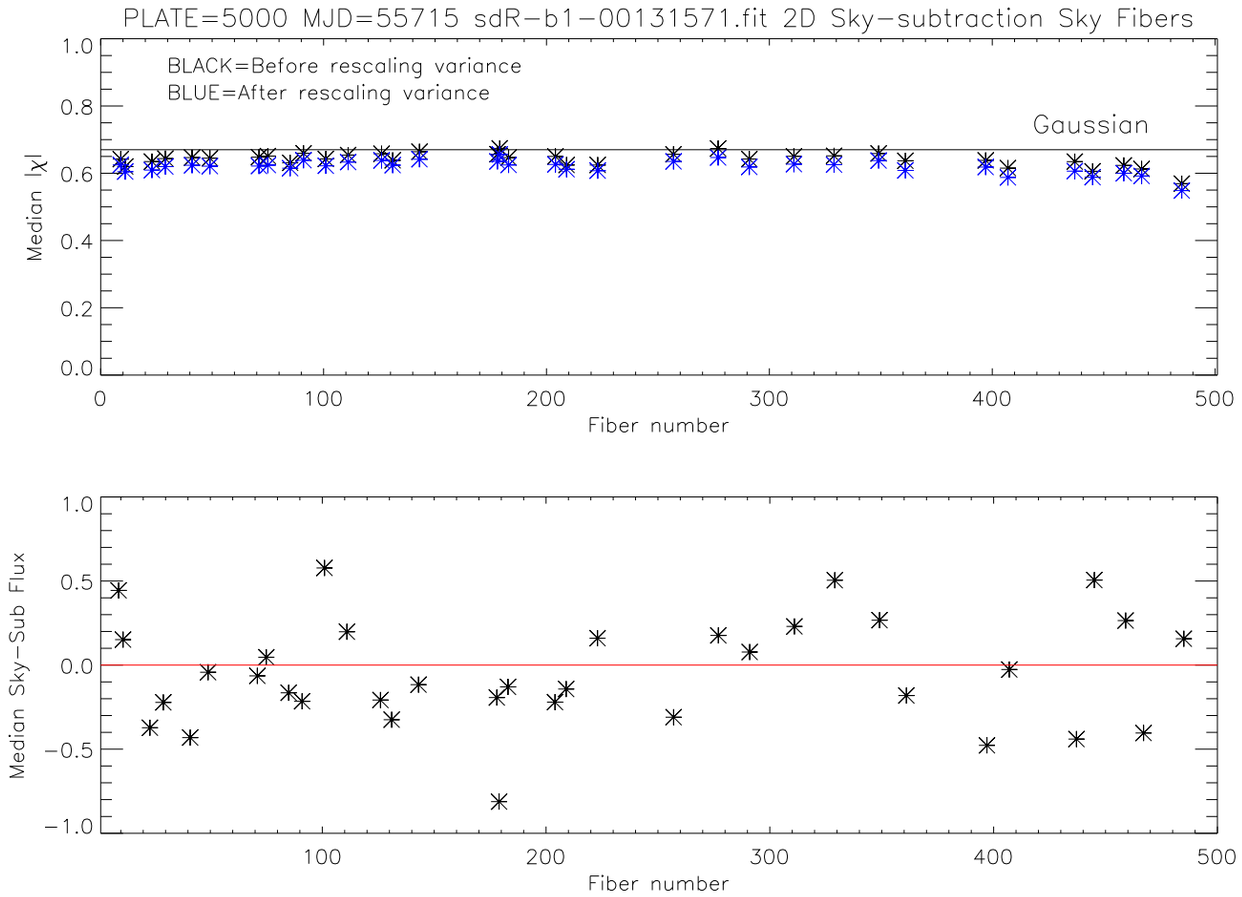

PLATE=5000 MJD=55715 sdR-b1-00131571.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

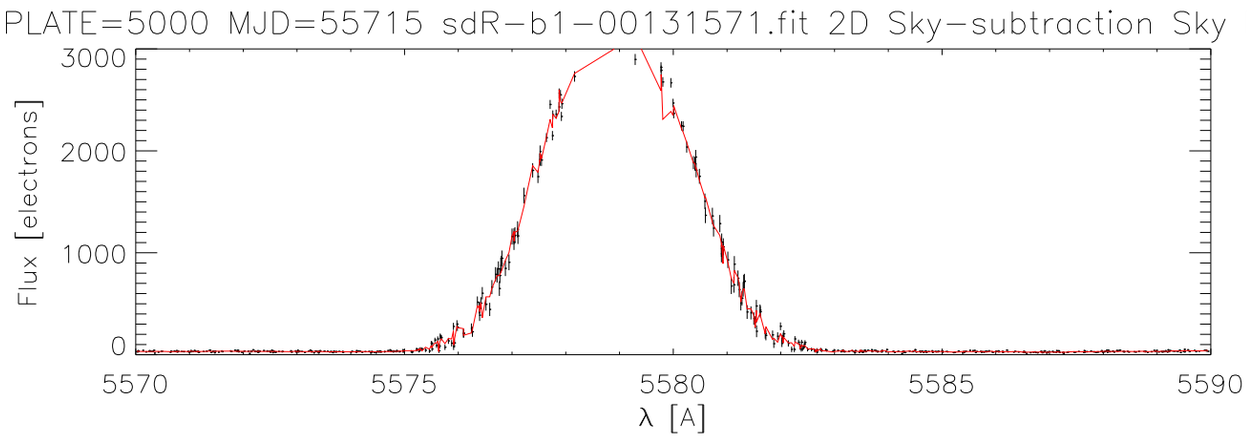

PLATE=5000 MJD=55715 sdR-b1-00131571.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

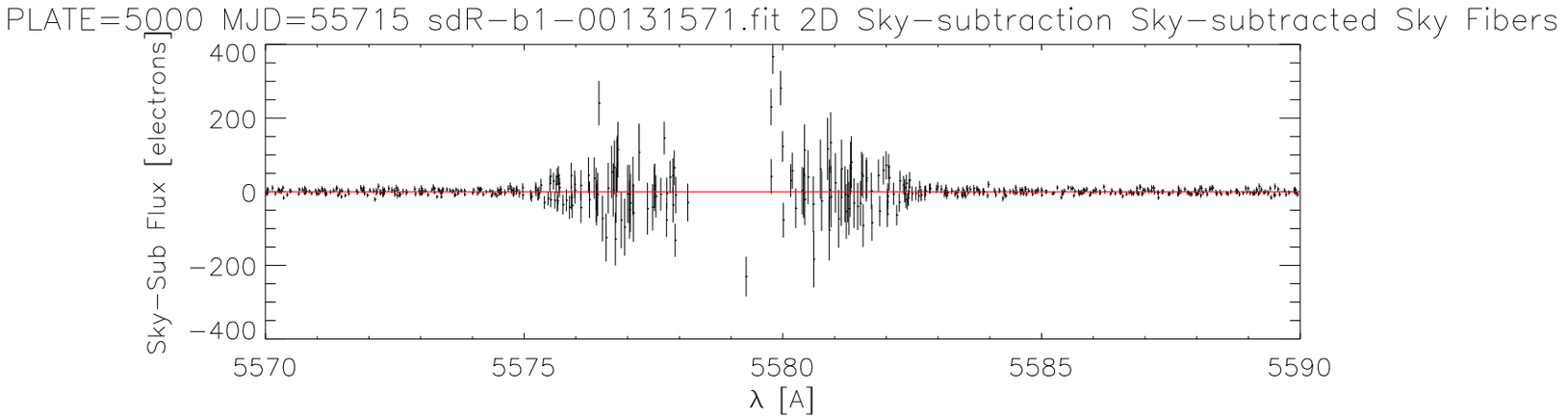

PLATE=5000 MJD=55715 sdR-b1-00131571.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
300
200
100
0
−100
−200
−300
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 35

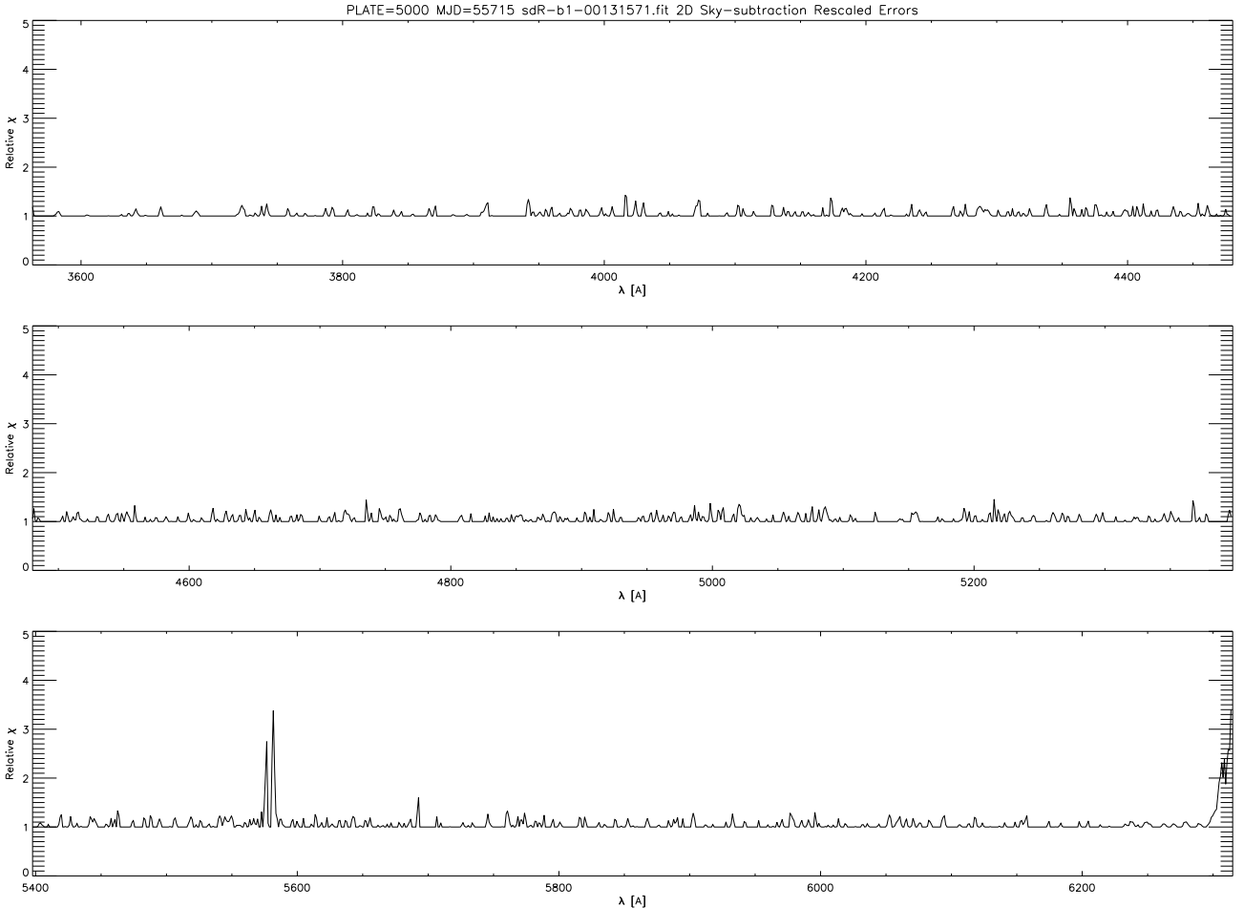


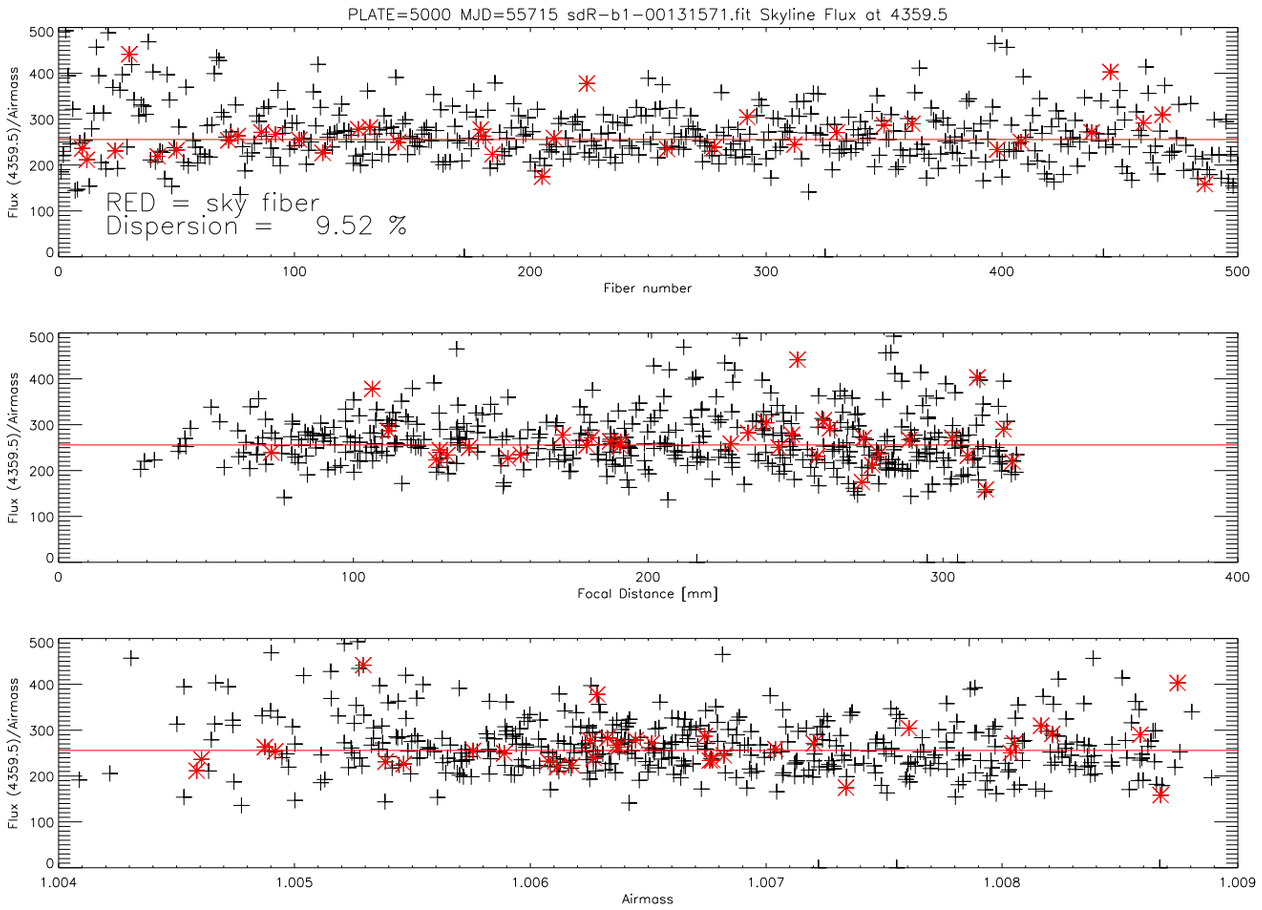

PLATE=5000 MJD=55715 sdR-b1-00131571.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

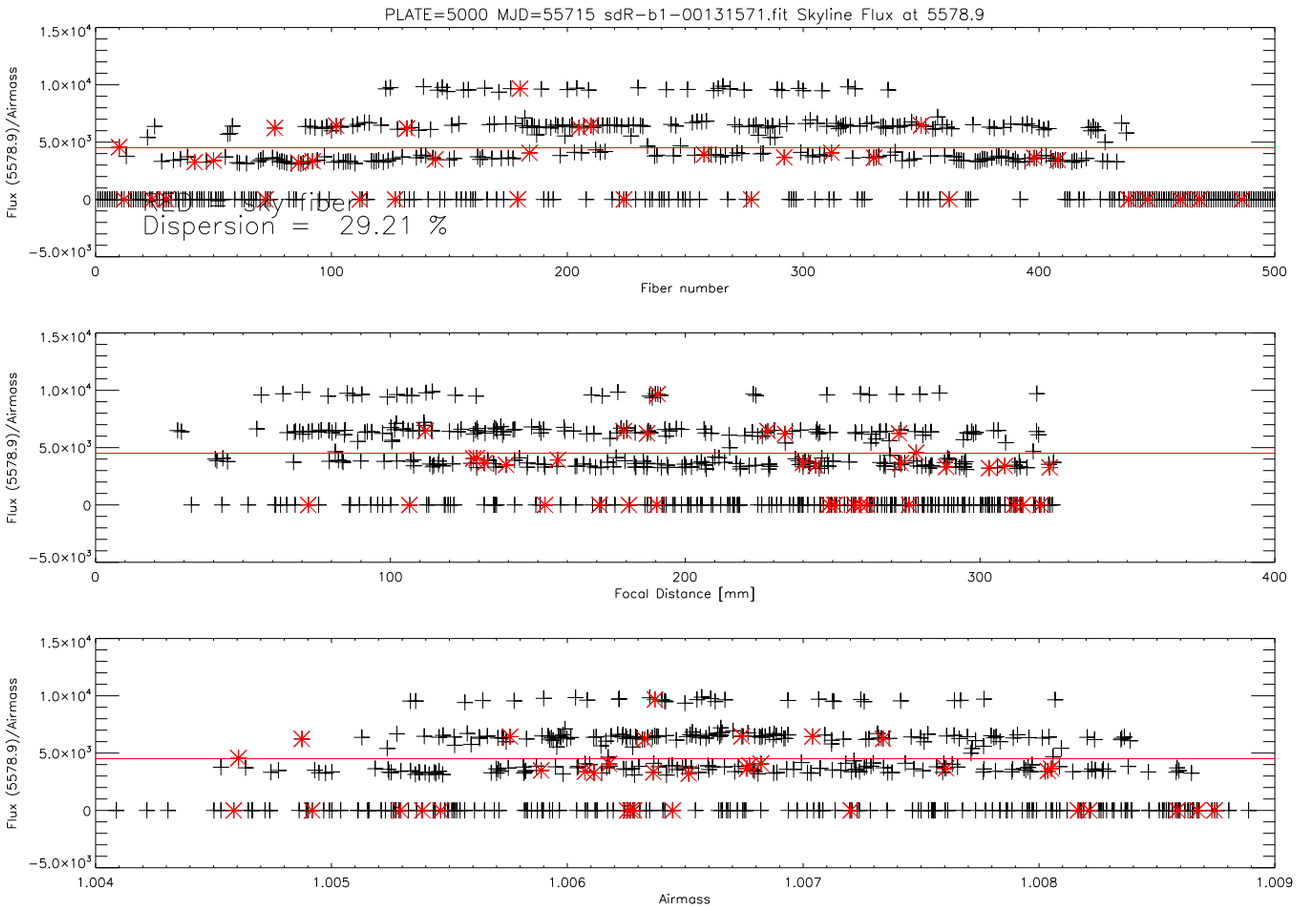

PLATE=5000 MJD=55715 sdR-b1-00131571.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

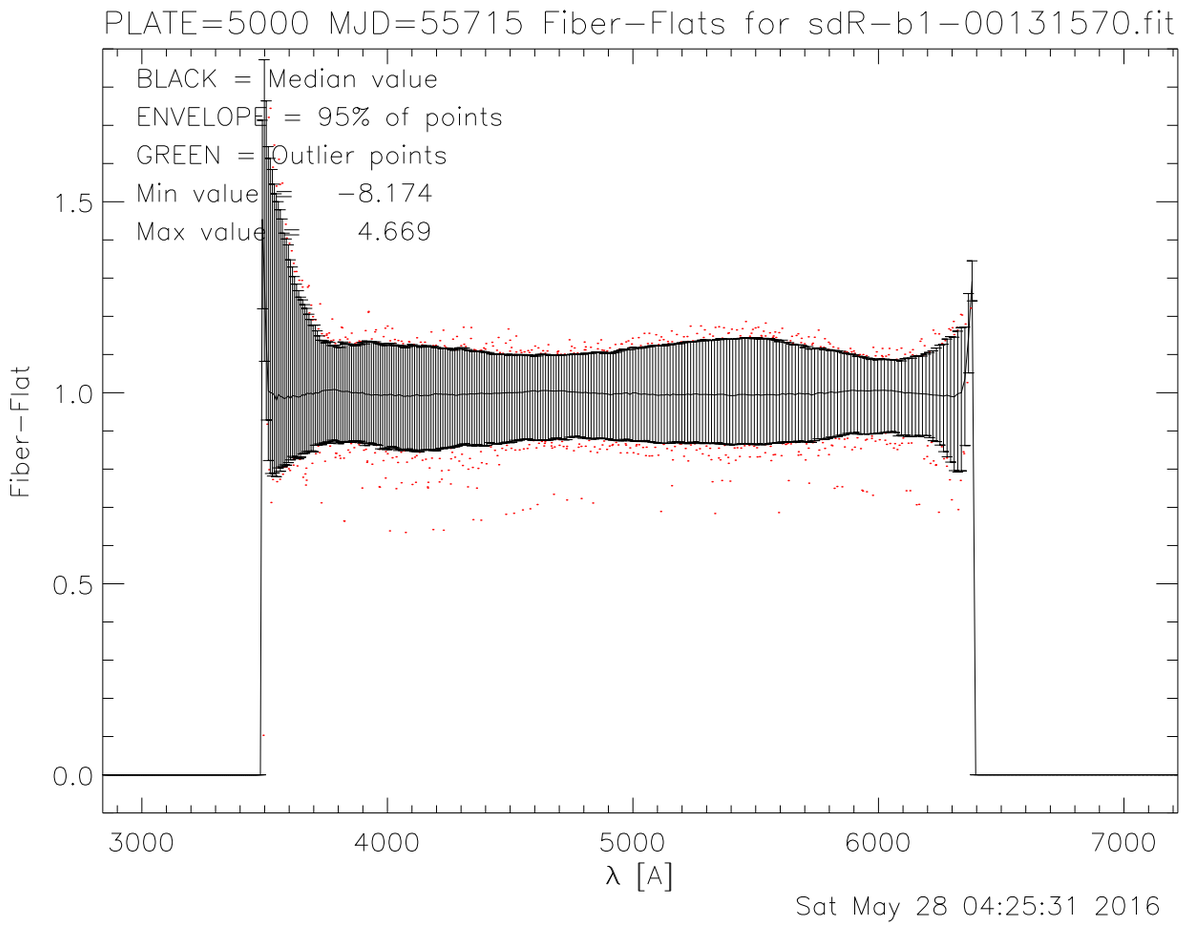

PLATE=5000 MJD=55715 sdR-b1-00131571.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

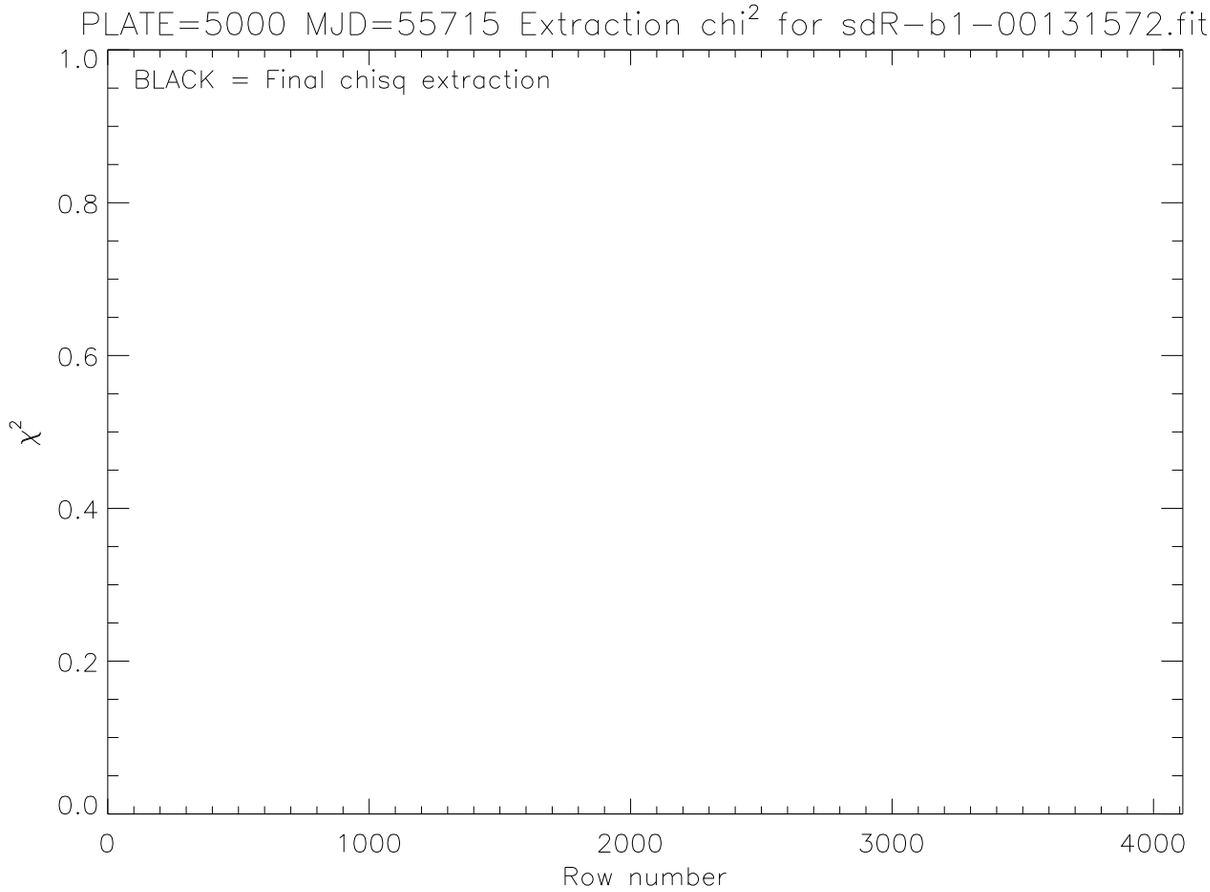
Number of sky fibers = 35

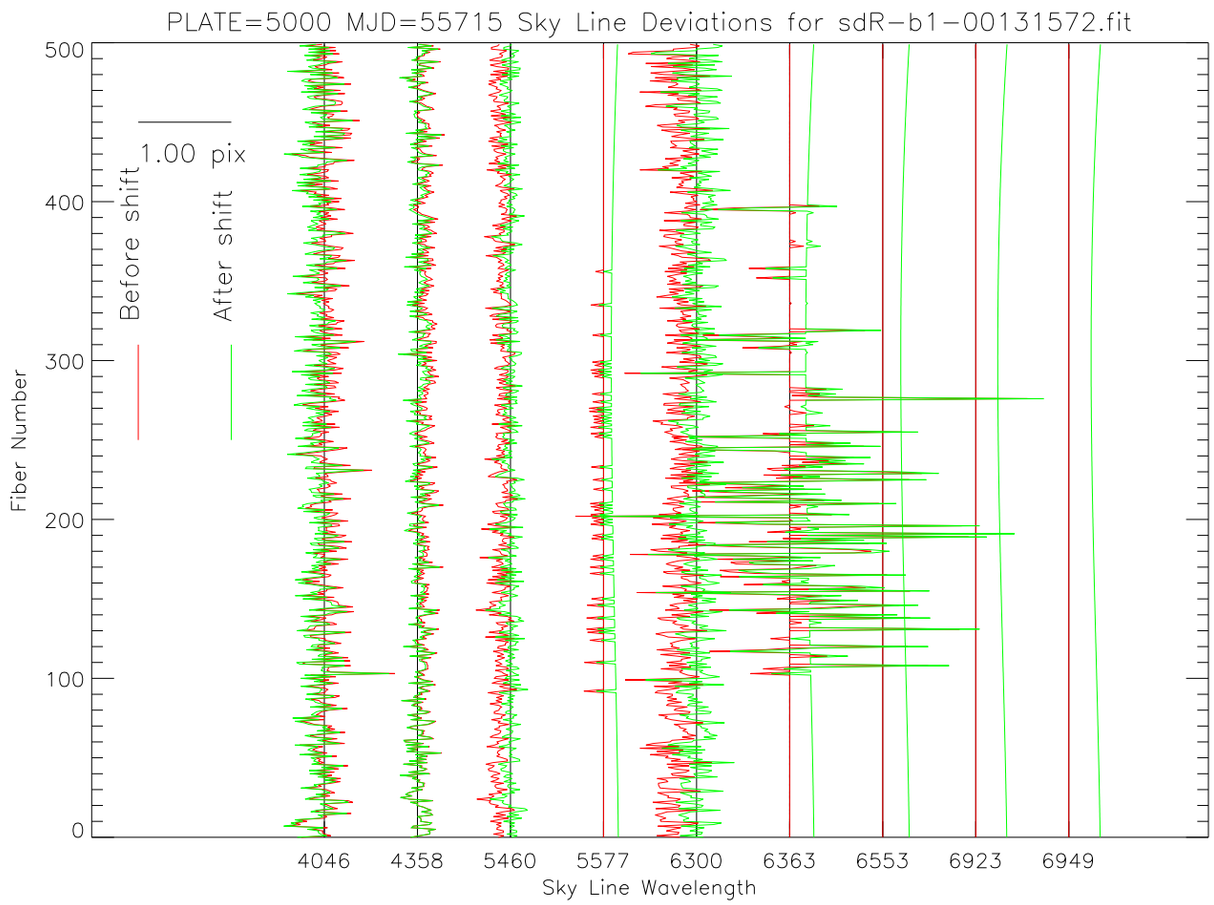


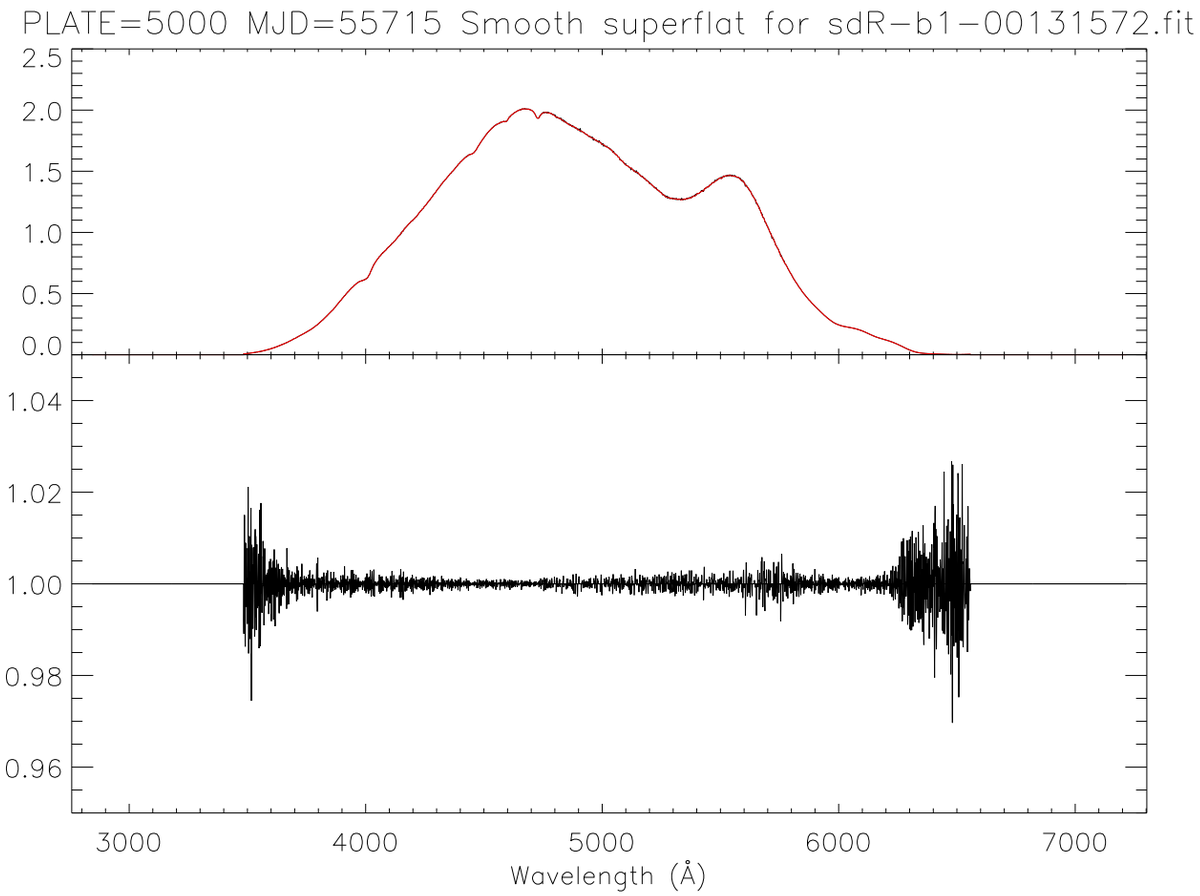

PLATE=5000 MJD=55715 sdR-b1-00131571.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 9.52 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

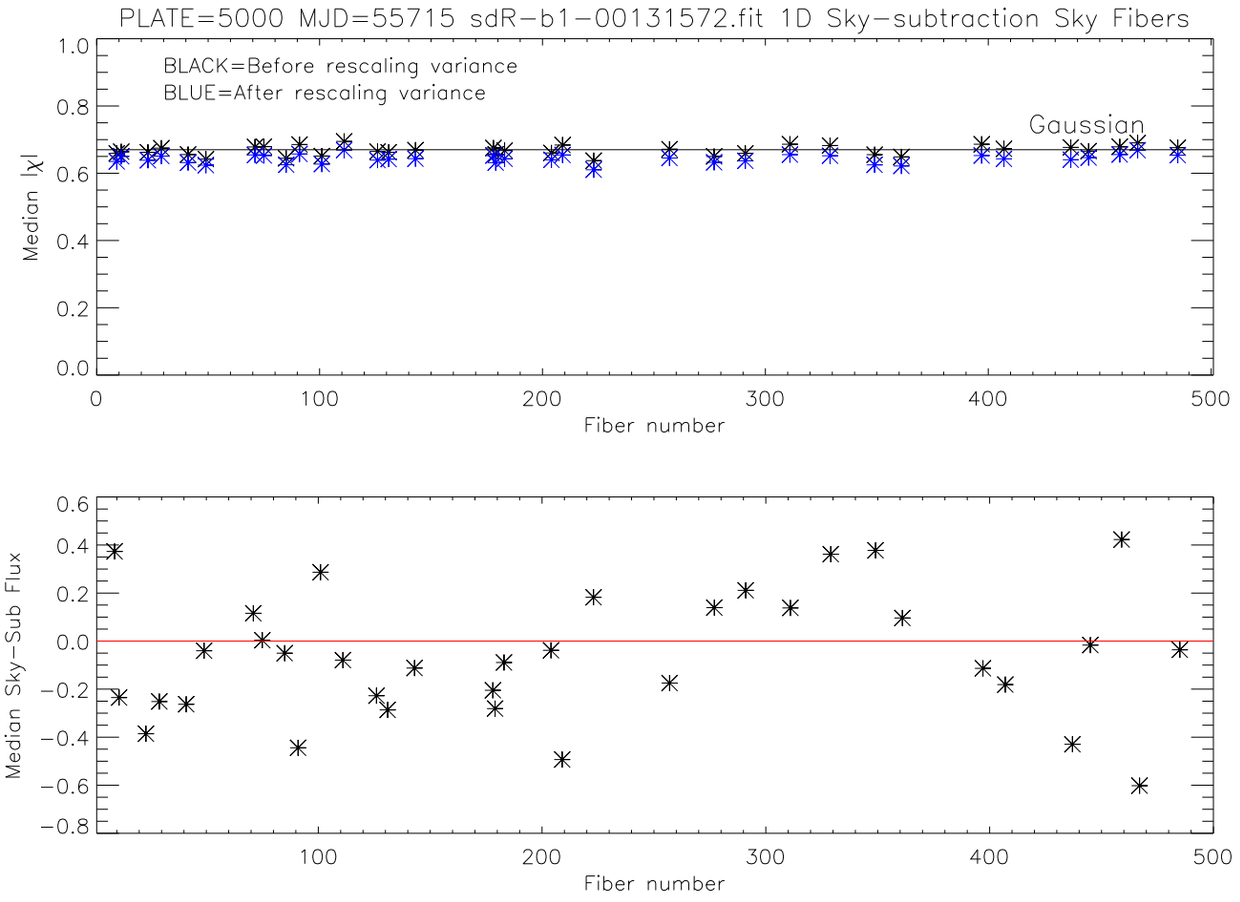

PLATE=5000 MJD=55715 sdR-b1-00131571.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Red = sky fiber
Dispersion = 29.21 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

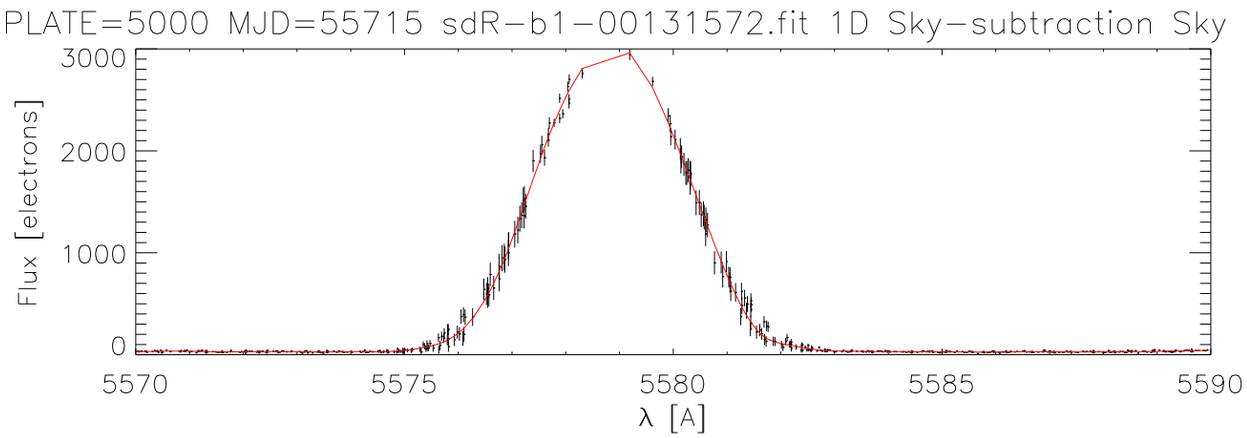

PLATE=5000 MJD=55715 Fiber−Flats for sdR−b1−00131570.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −8.174
Max value = 4.669
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sat May 28 04:25:31 2016

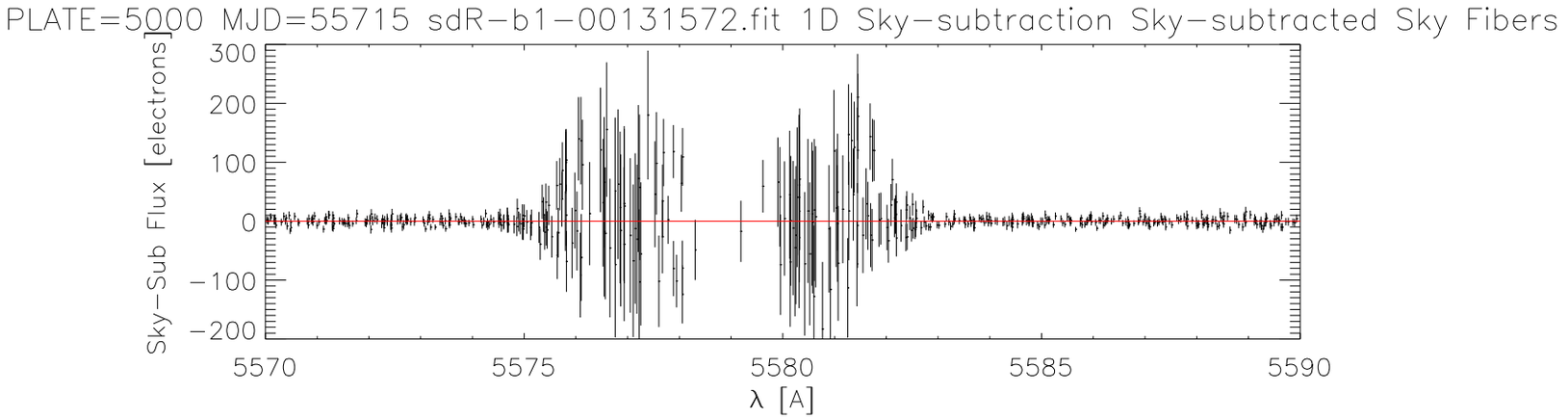

PLATE=5000 MJD=55715 Extraction chi^2 for sdR−b1−00131572.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=5000 MJD=55715 Sky Line Deviations for sdR-b1-00131572.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

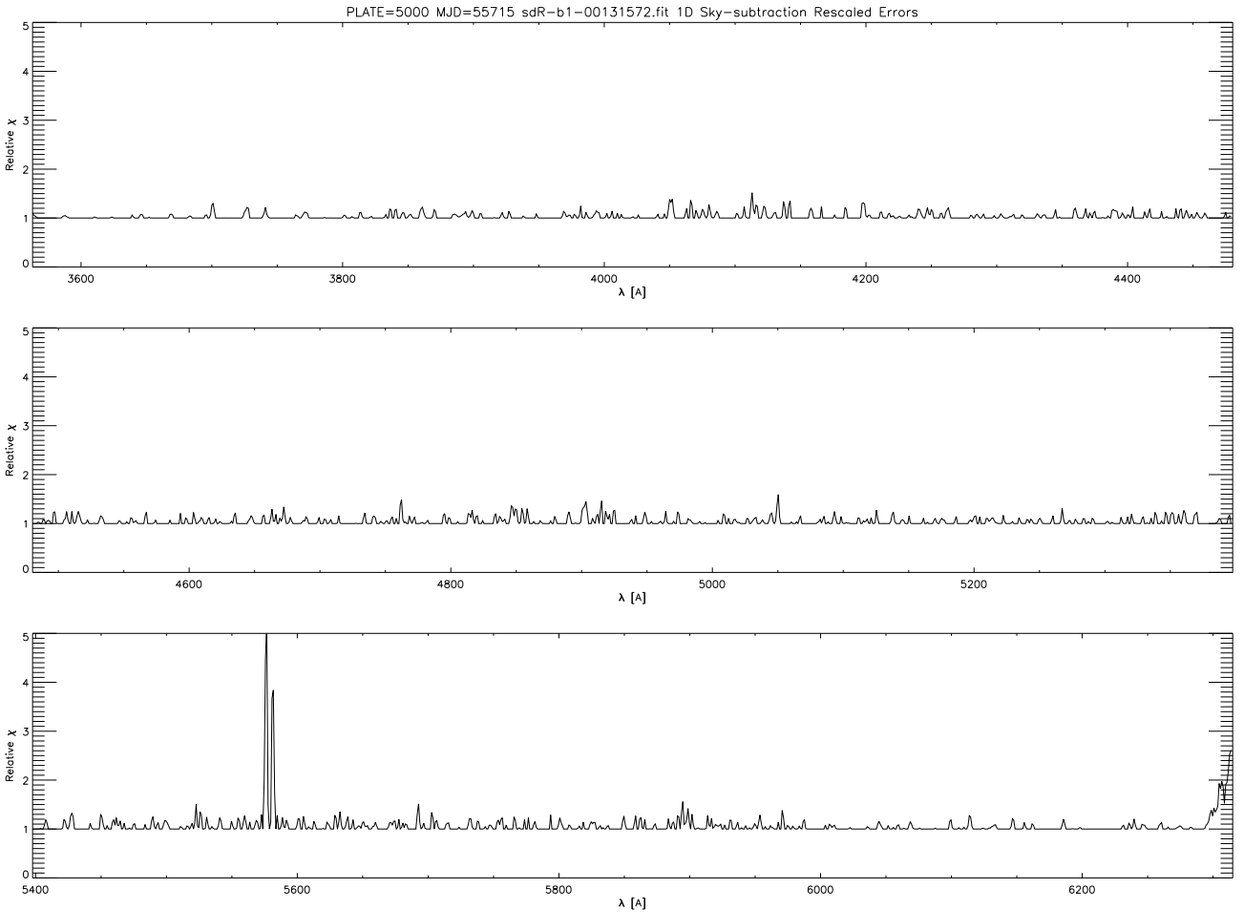

PLATE=5000 MJD=55715 Smooth superflat for sdR-b1-00131572.fit
2.5
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

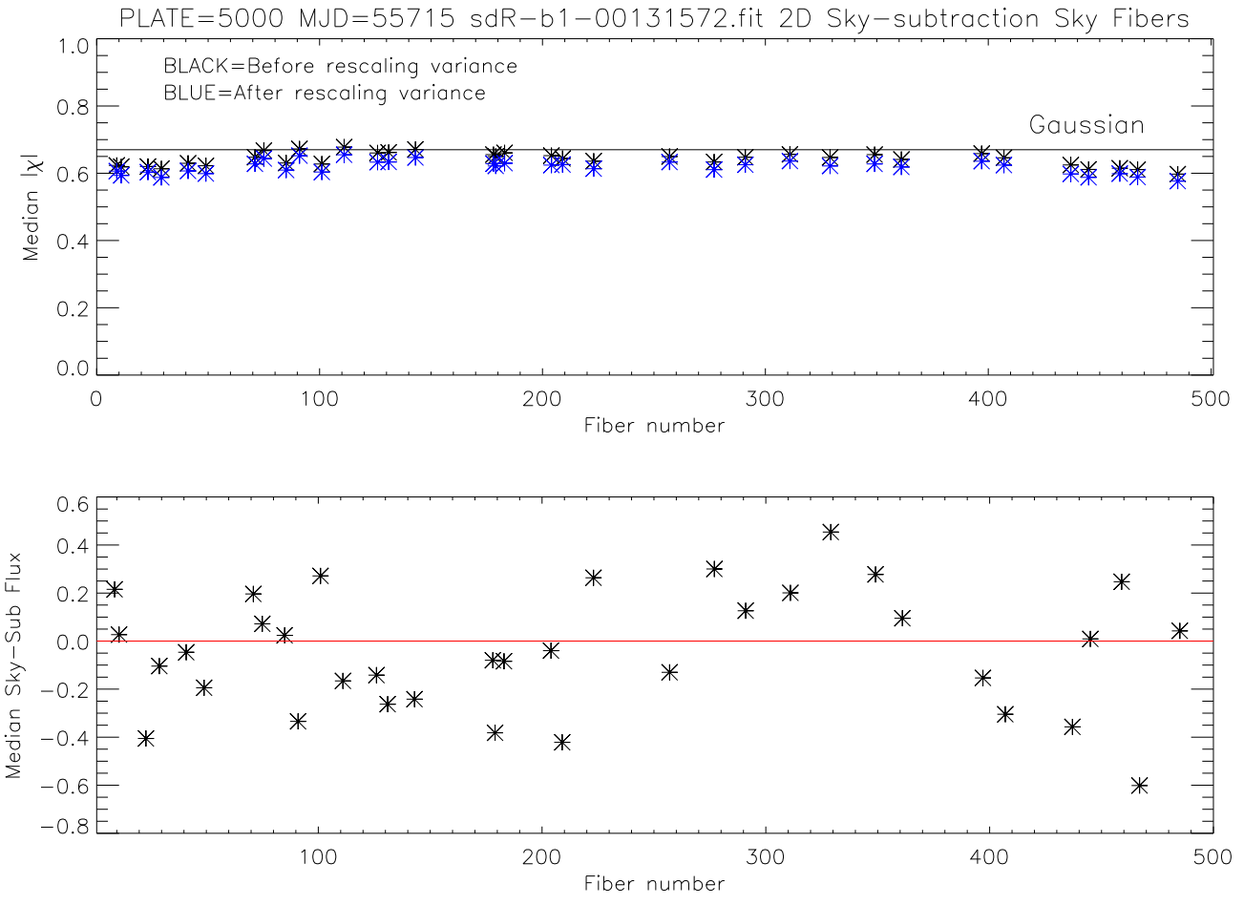

PLATE=5000 MJD=55715 sdR-b1-00131572.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

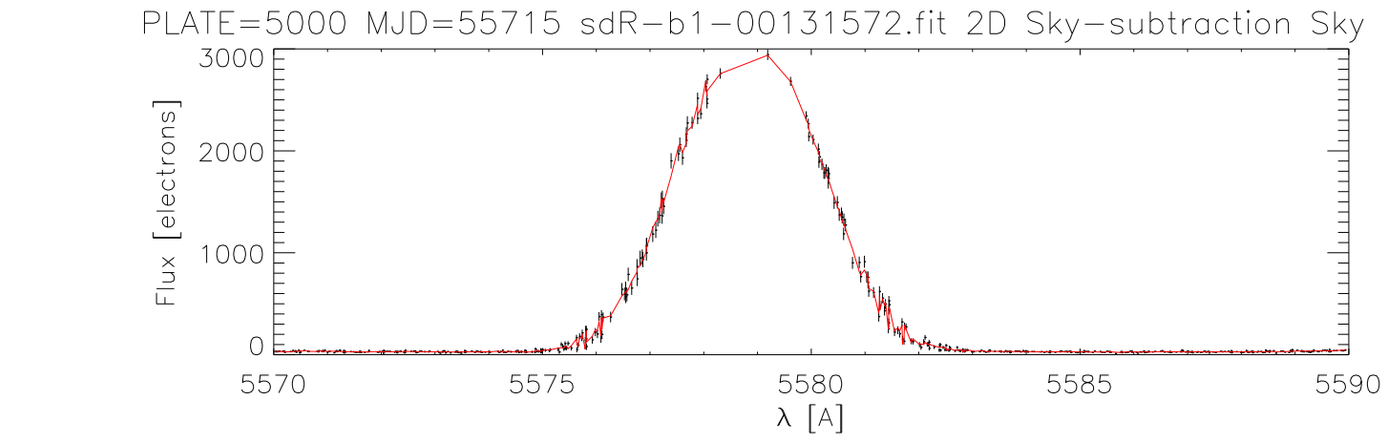

PLATE=5000 MJD=55715 sdR-b1-00131572.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

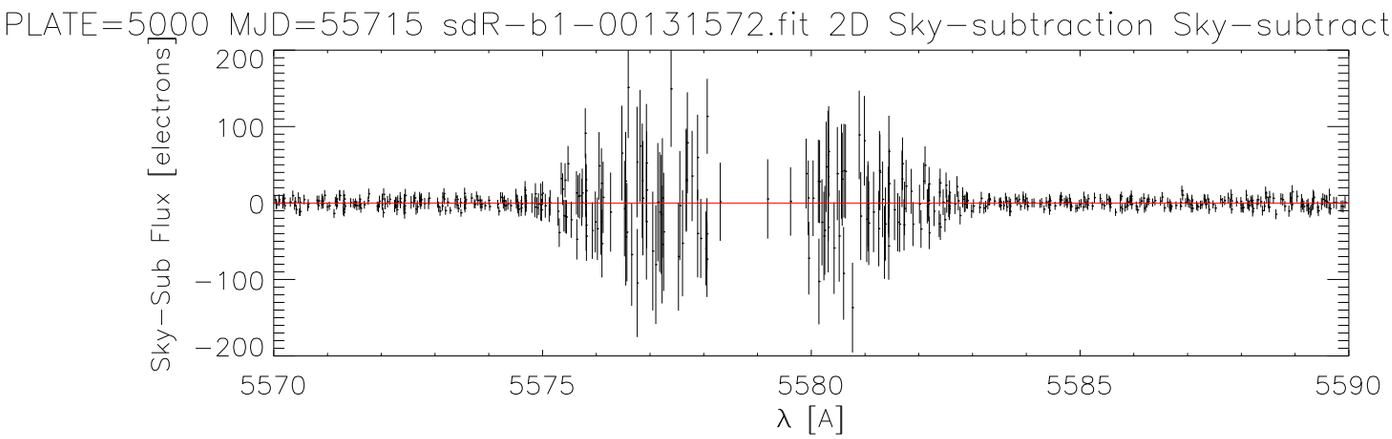

PLATE=5000 MJD=55715 sdR-b1-00131572.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 35

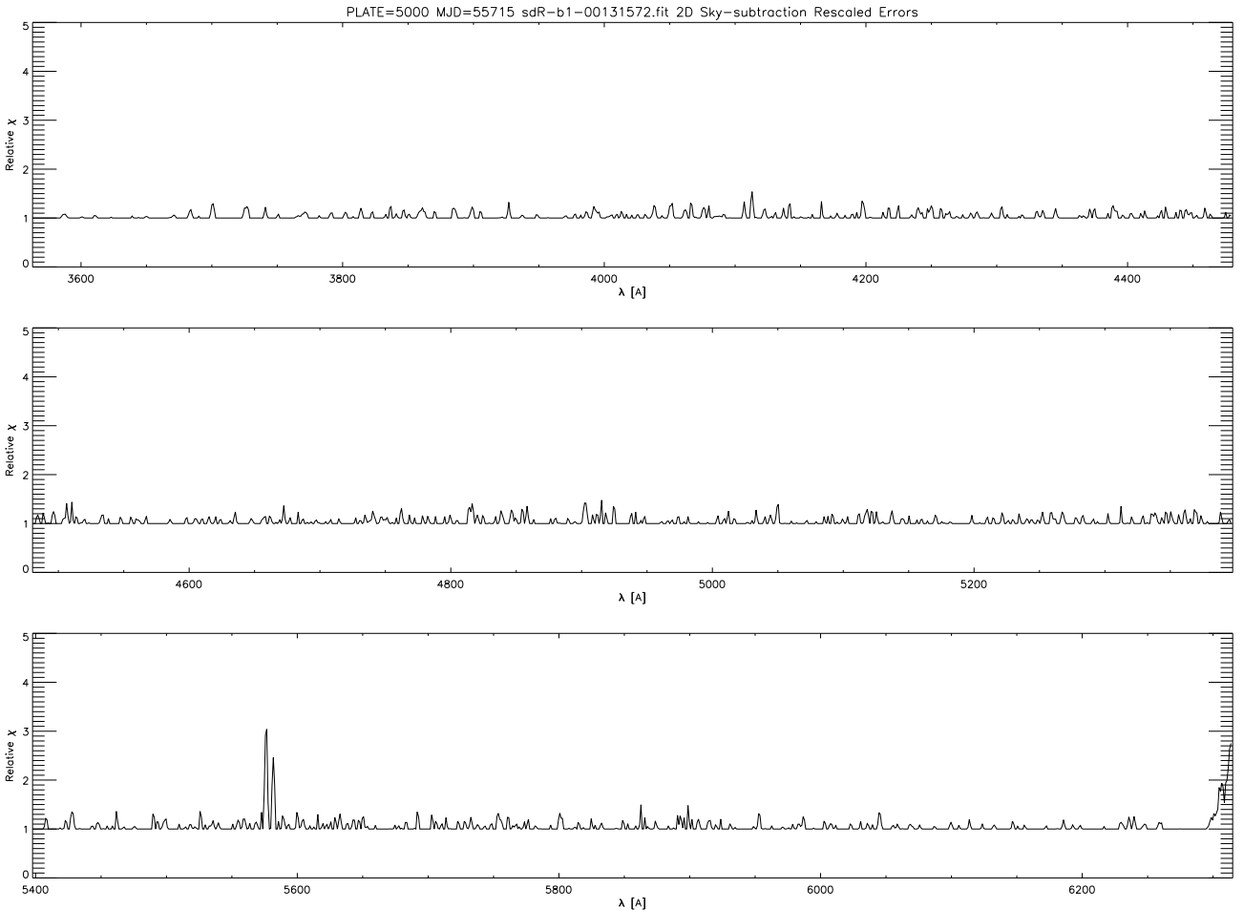


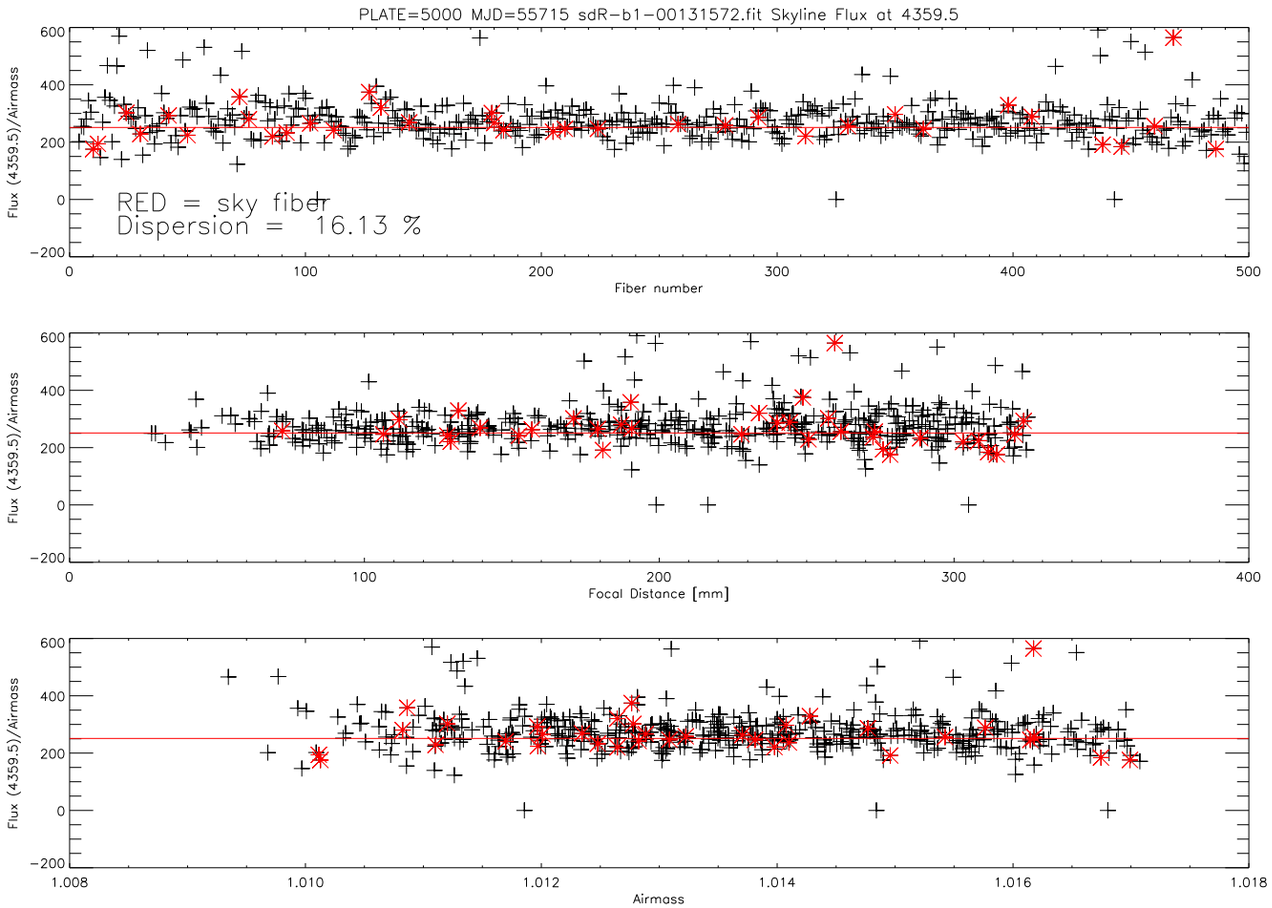

PLATE=5000 MJD=55715 sdR-b1-00131572.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

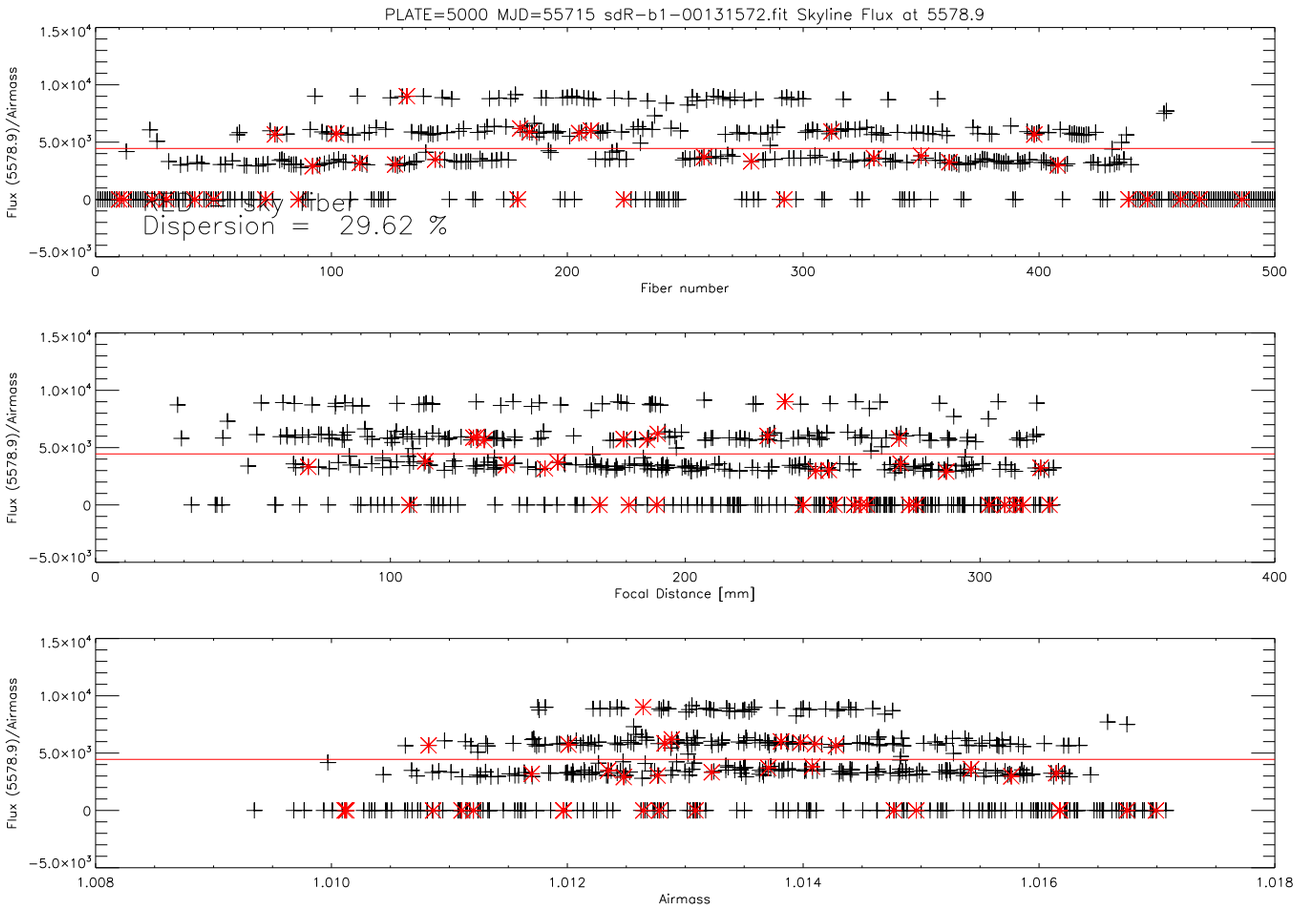

PLATE=5000 MJD=55715 sdR-b1-00131572.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

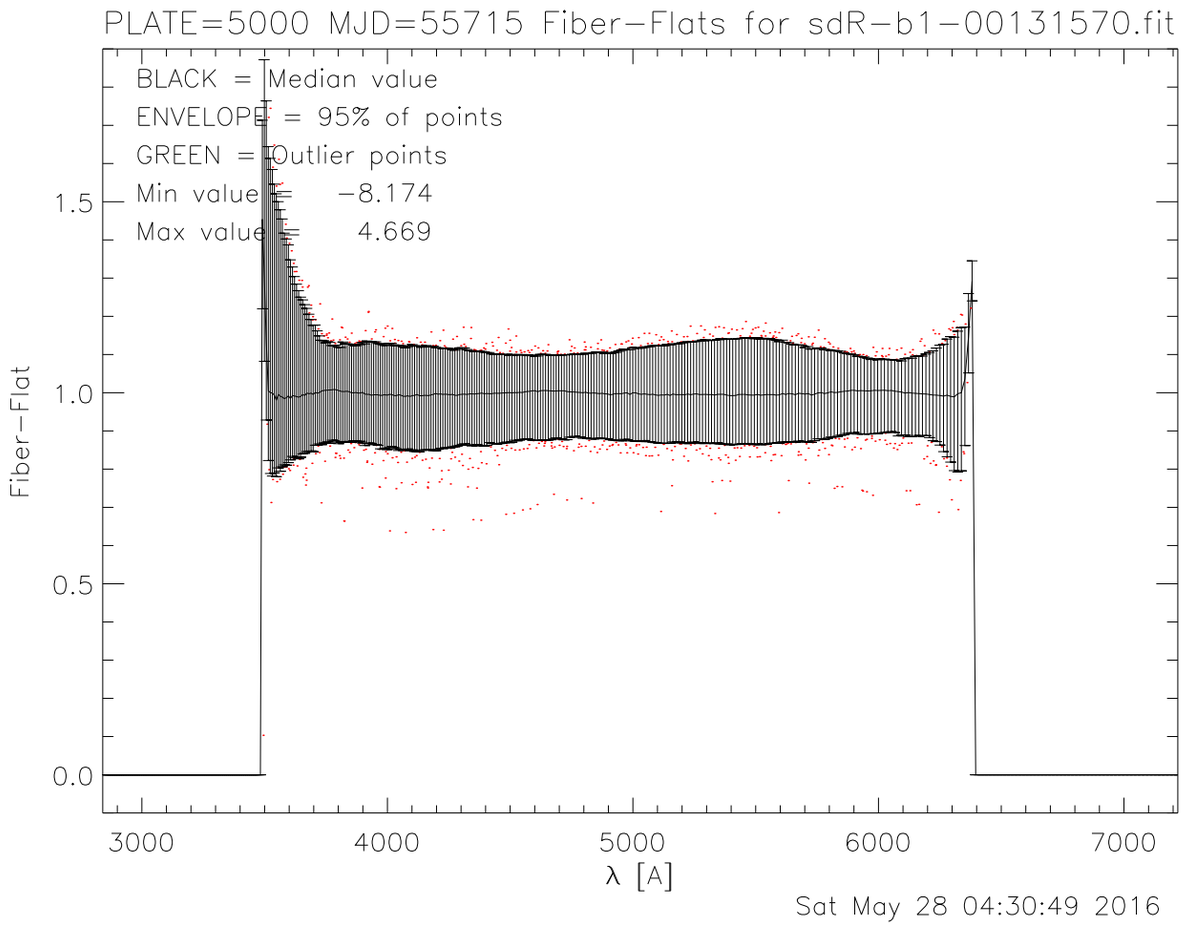

PLATE=5000 MJD=55715 sdR-b1-00131572.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

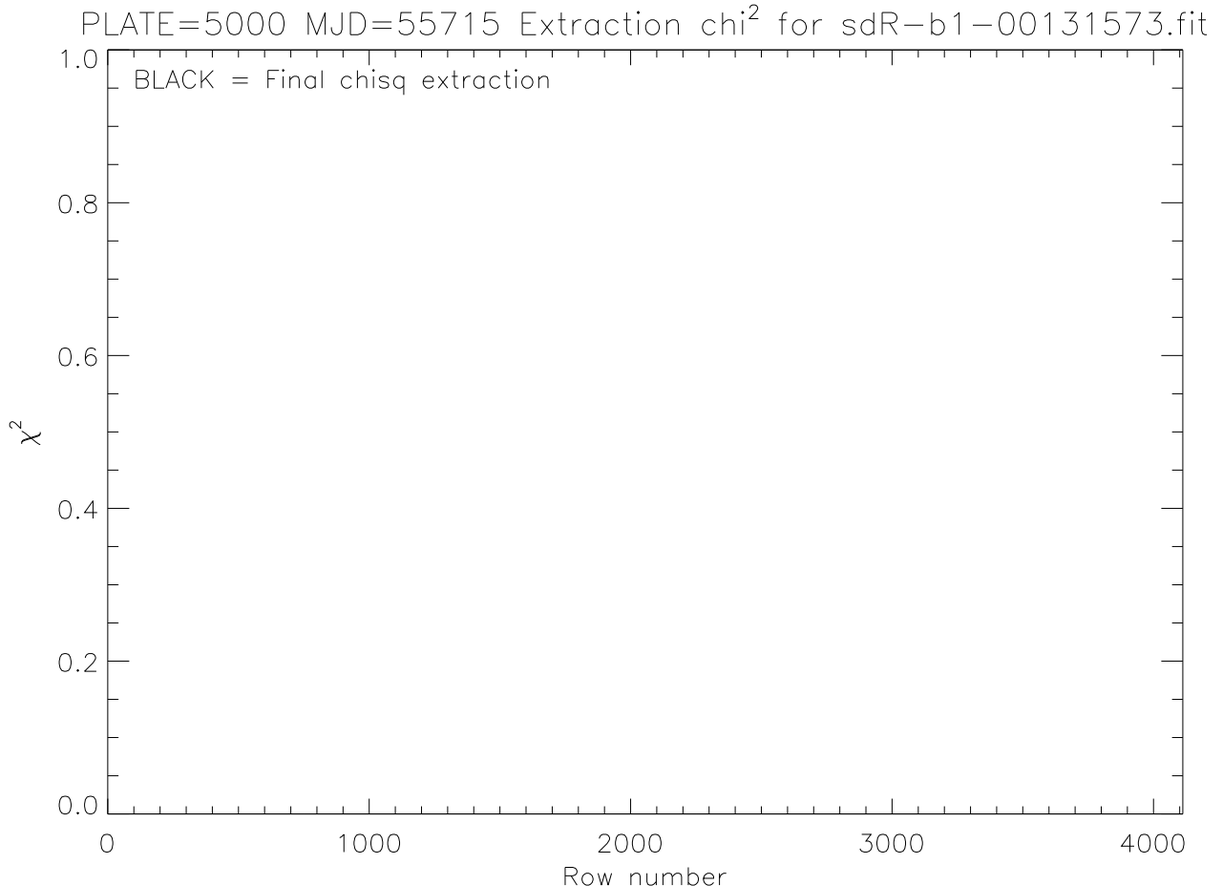
Number of sky fibers = 35

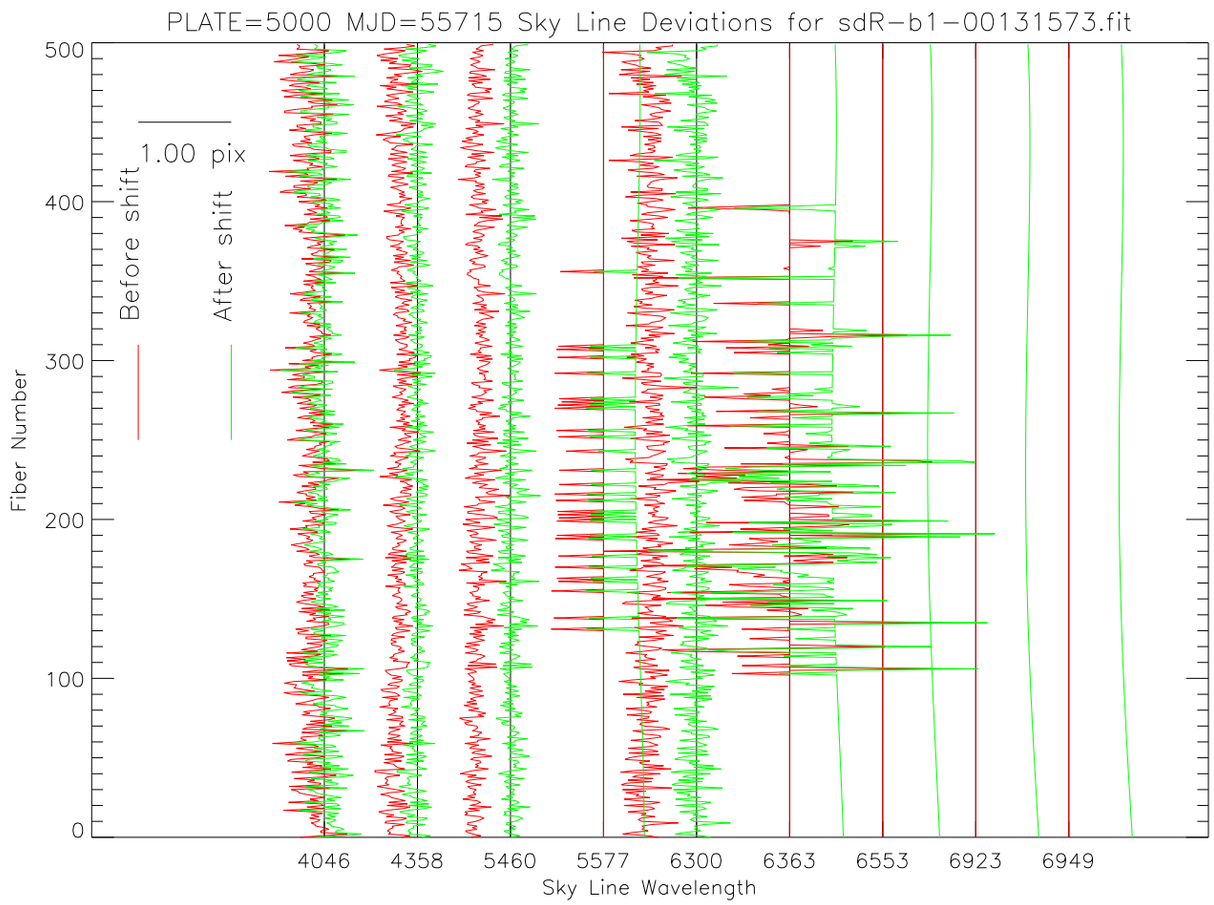


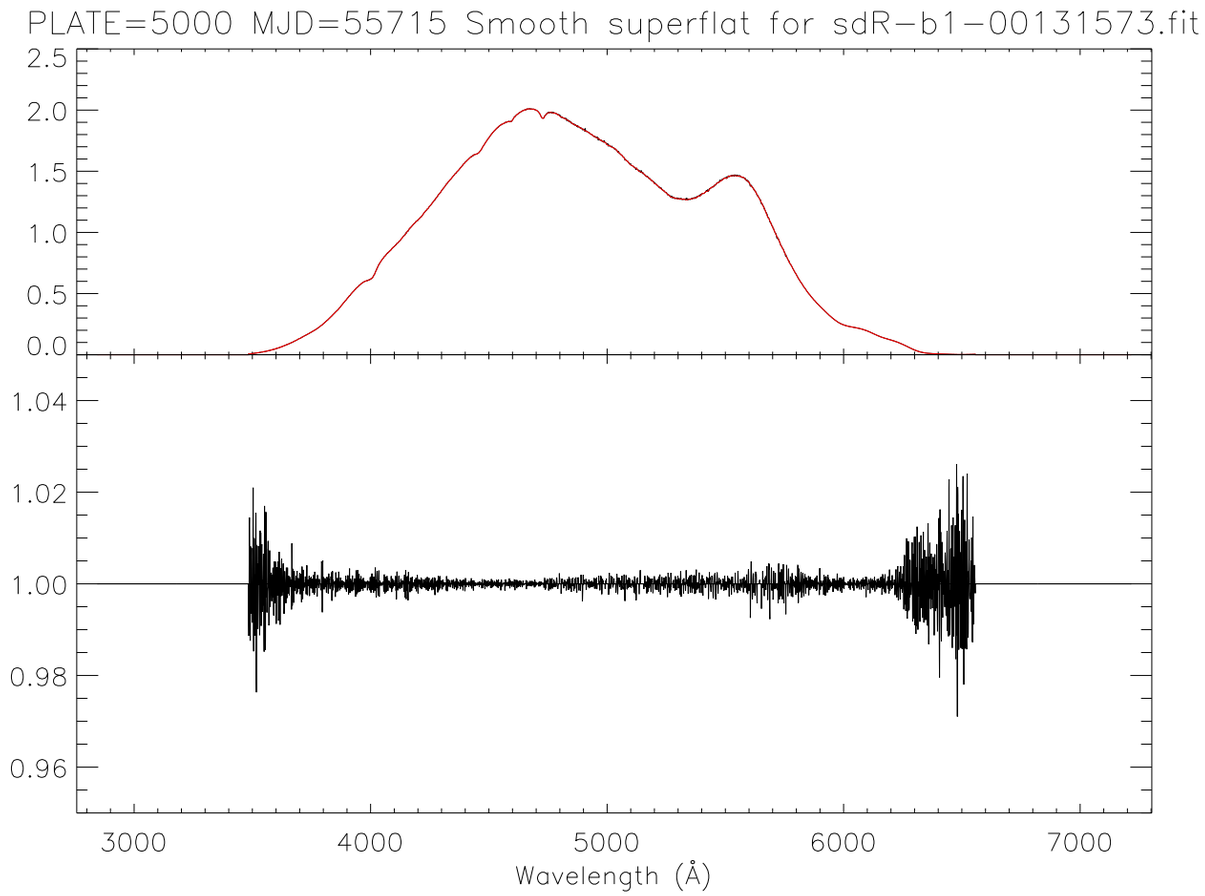

PLATE=5000 MJD=55715 sdR-b1-00131572.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 16.13 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

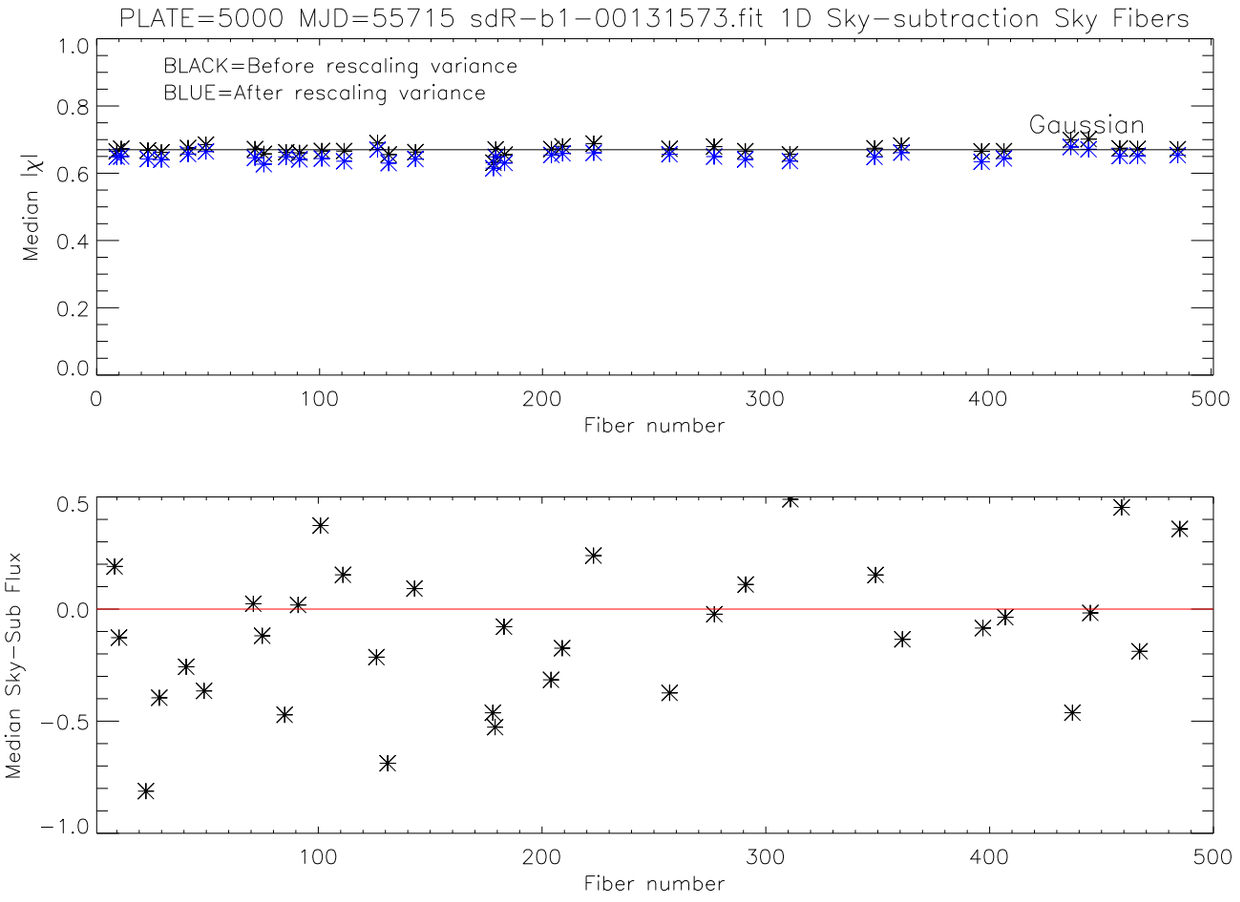

PLATE=5000 MJD=55715 sdR-b1-00131572.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
Red sky fiber
Dispersion = 29.62 %
Focal Distance [mm]
Airmass

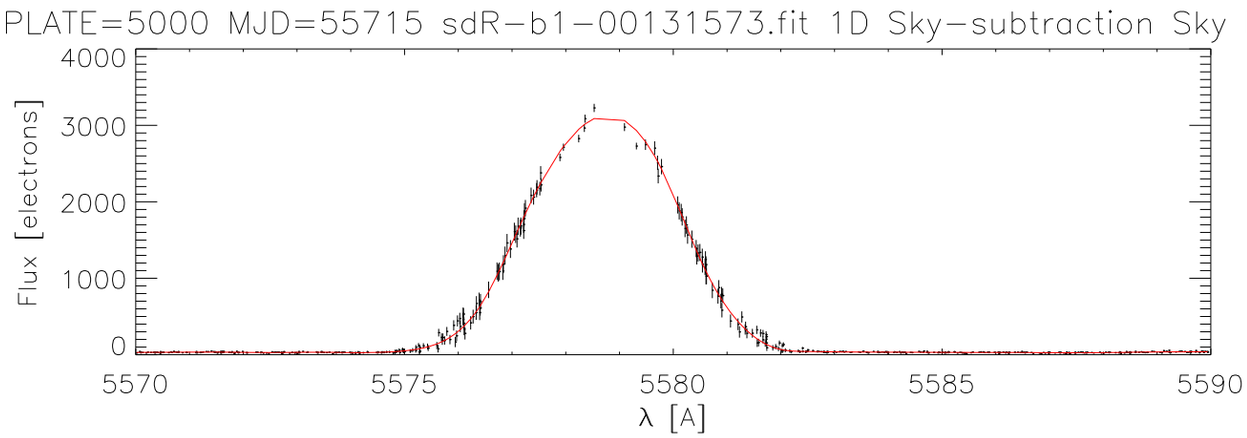

PLATE=5000 MJD=55715 Fiber−Flats for sdR−b1−00131570.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −8.174
Max value = 4.669
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sat May 28 04:30:49 2016

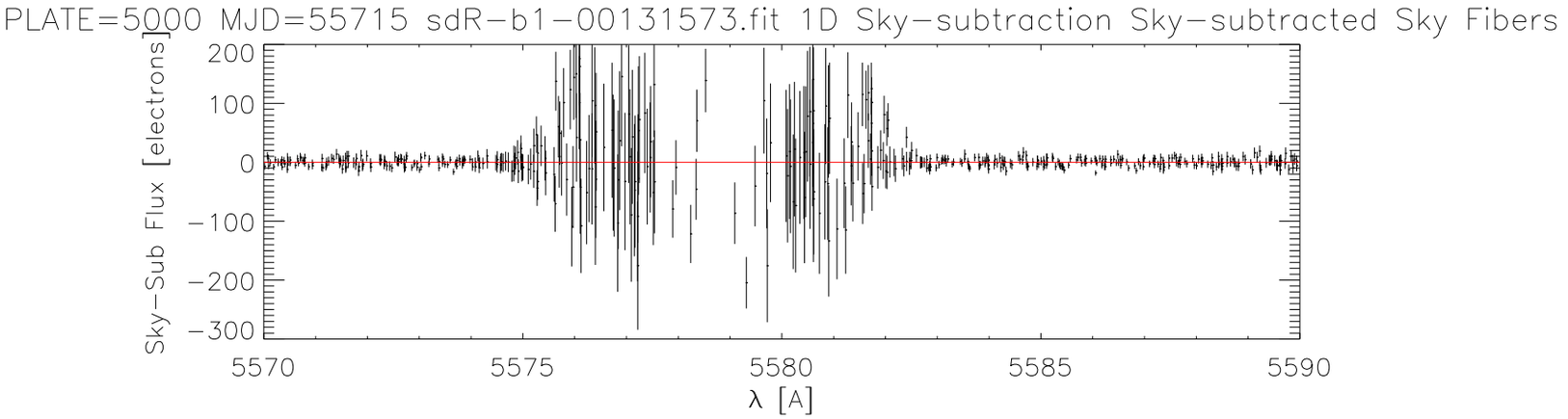

PLATE=5000 MJD=55715 Extraction chi^2 for sdR−b1−00131573.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=5000 MJD=55715 Sky Line Deviations for sdR-b1-00131573.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

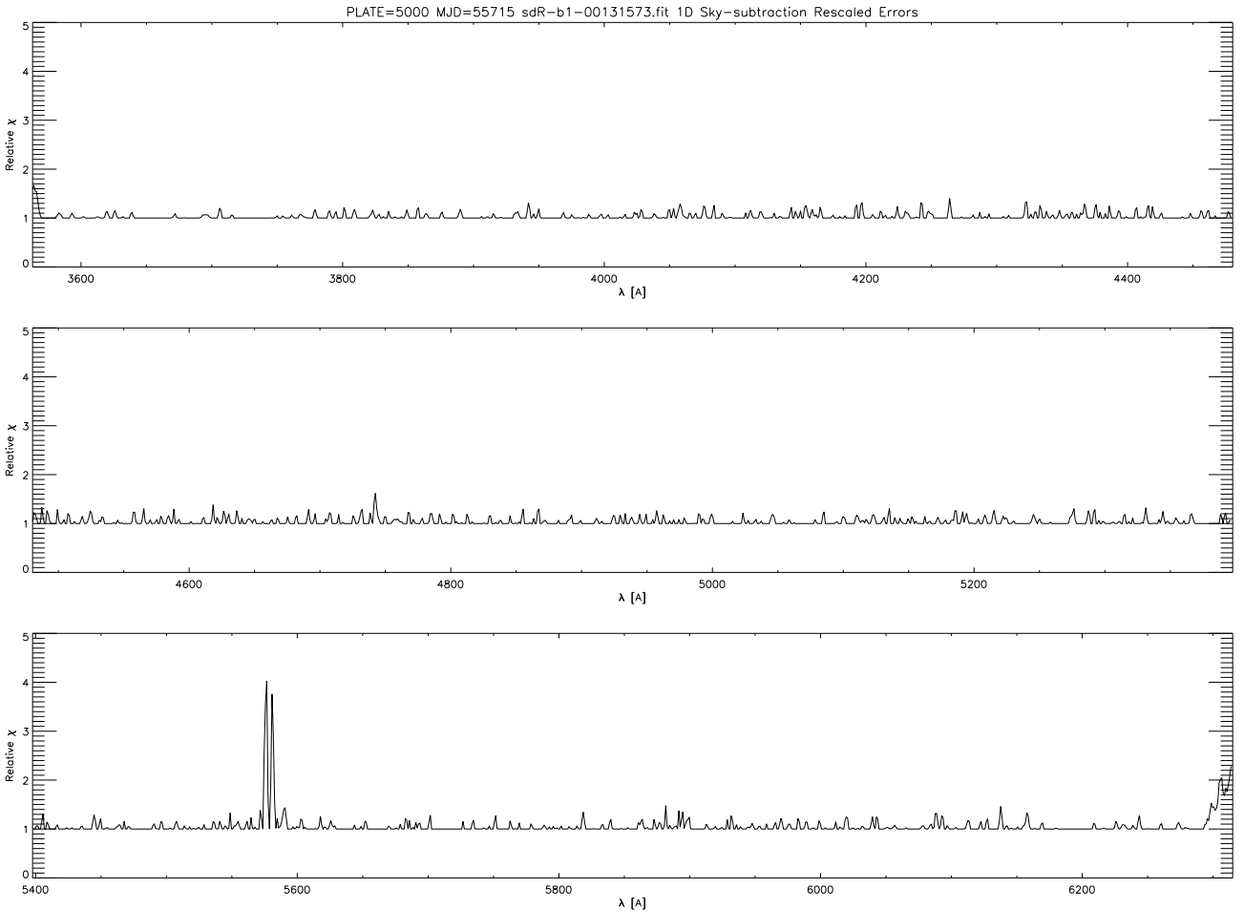

PLATE=5000 MJD=55715 Smooth superflat for sdR-b1-00131573.fit
2.5
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

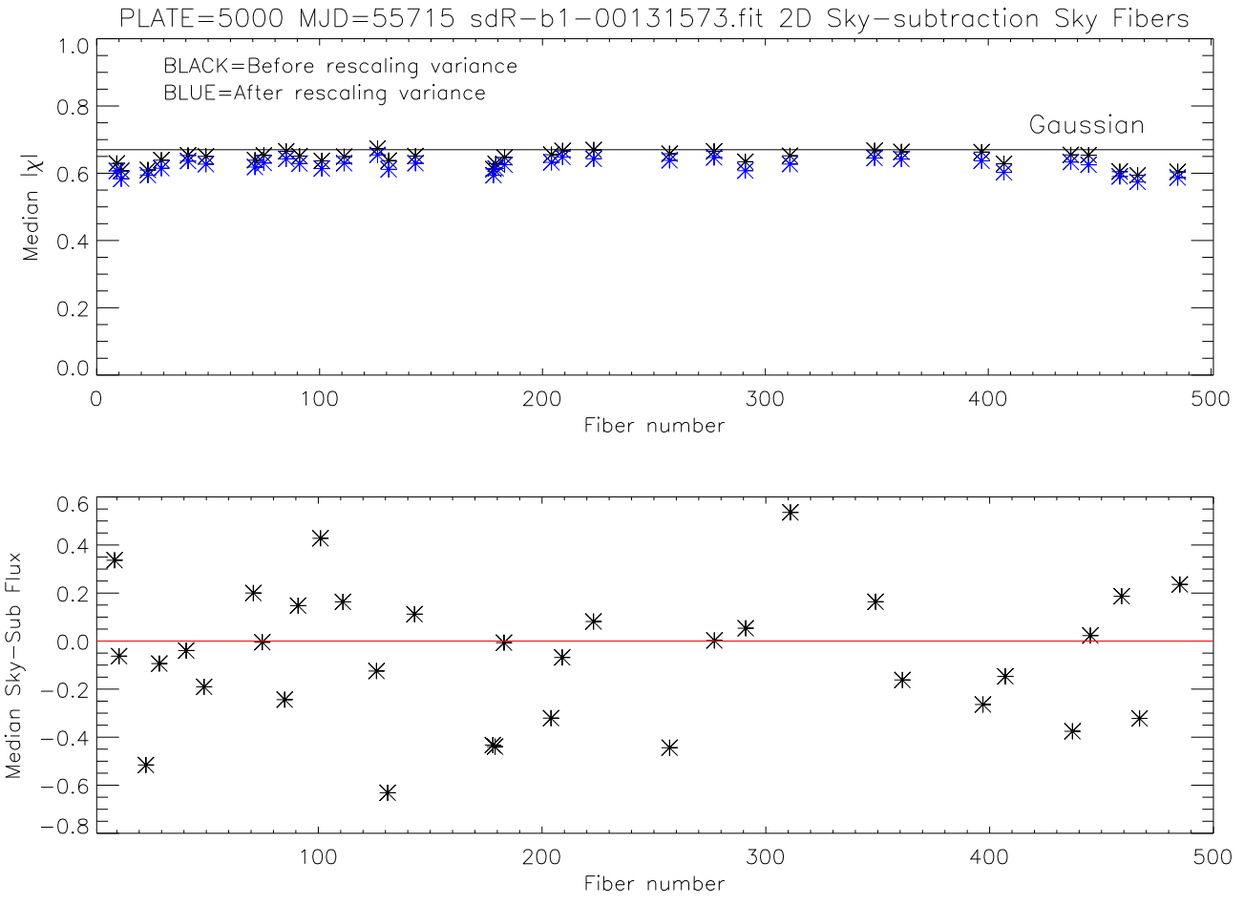

PLATE=5000 MJD=55715 sdR-b1-00131573.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number


PLATE=5000 MJD=55715 sdR-b1-00131573.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

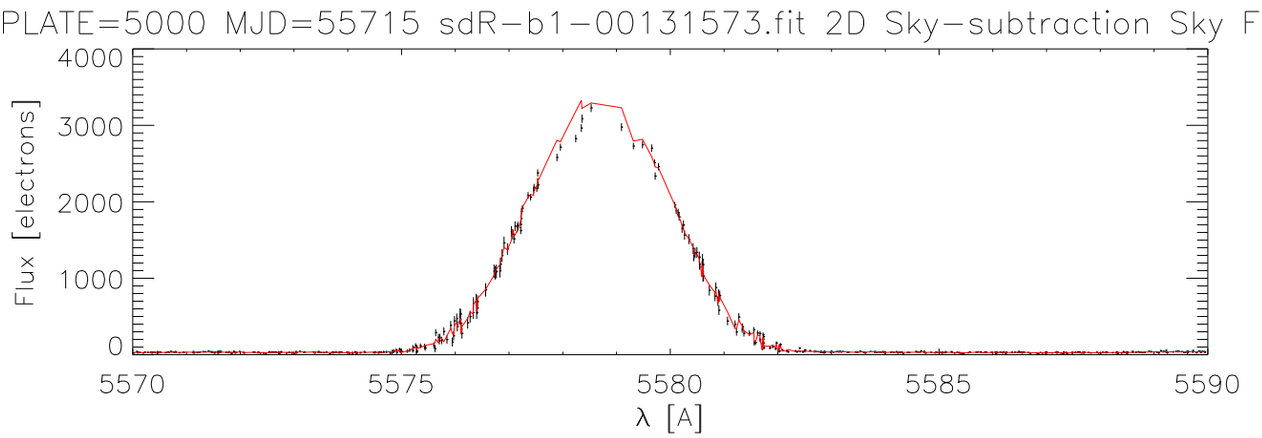

PLATE=5000 MJD=55715 sdR-b1-00131573.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

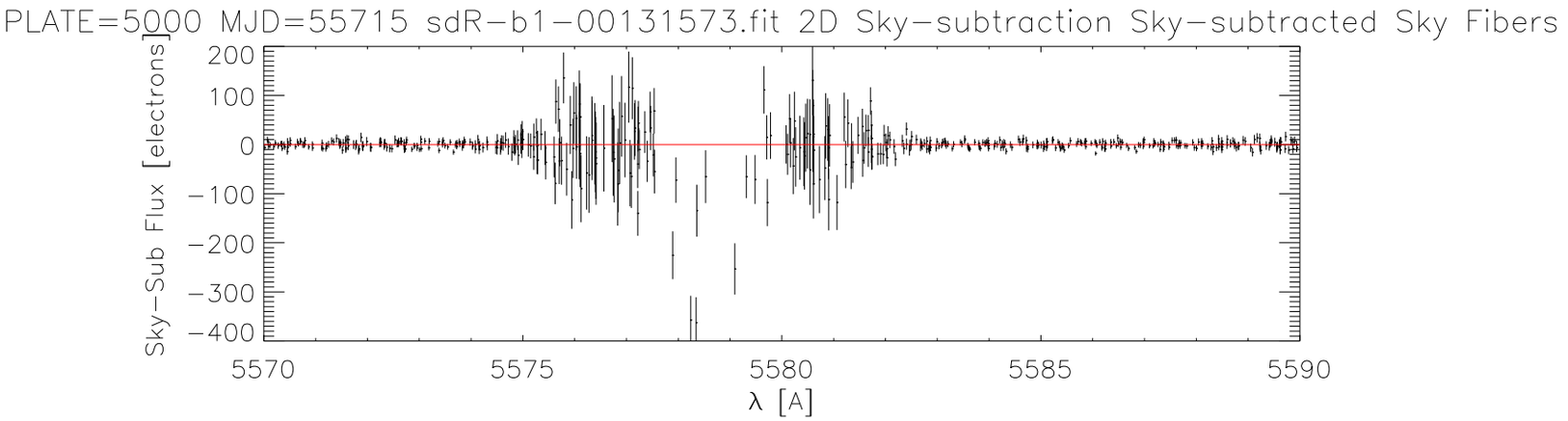
Number of sky fibers = 34



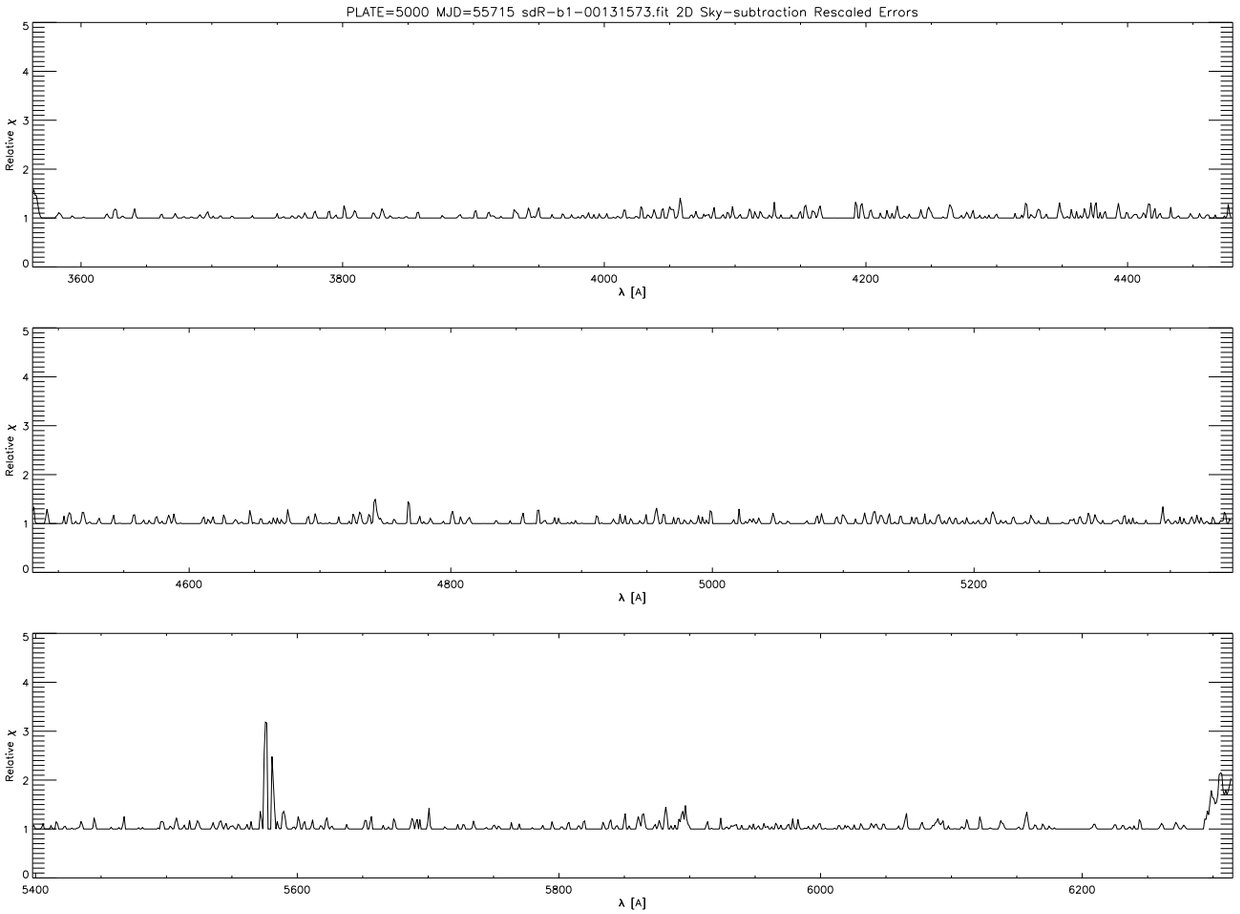

PLATE=5000 MJD=55715 sdR-b1-00131573.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number

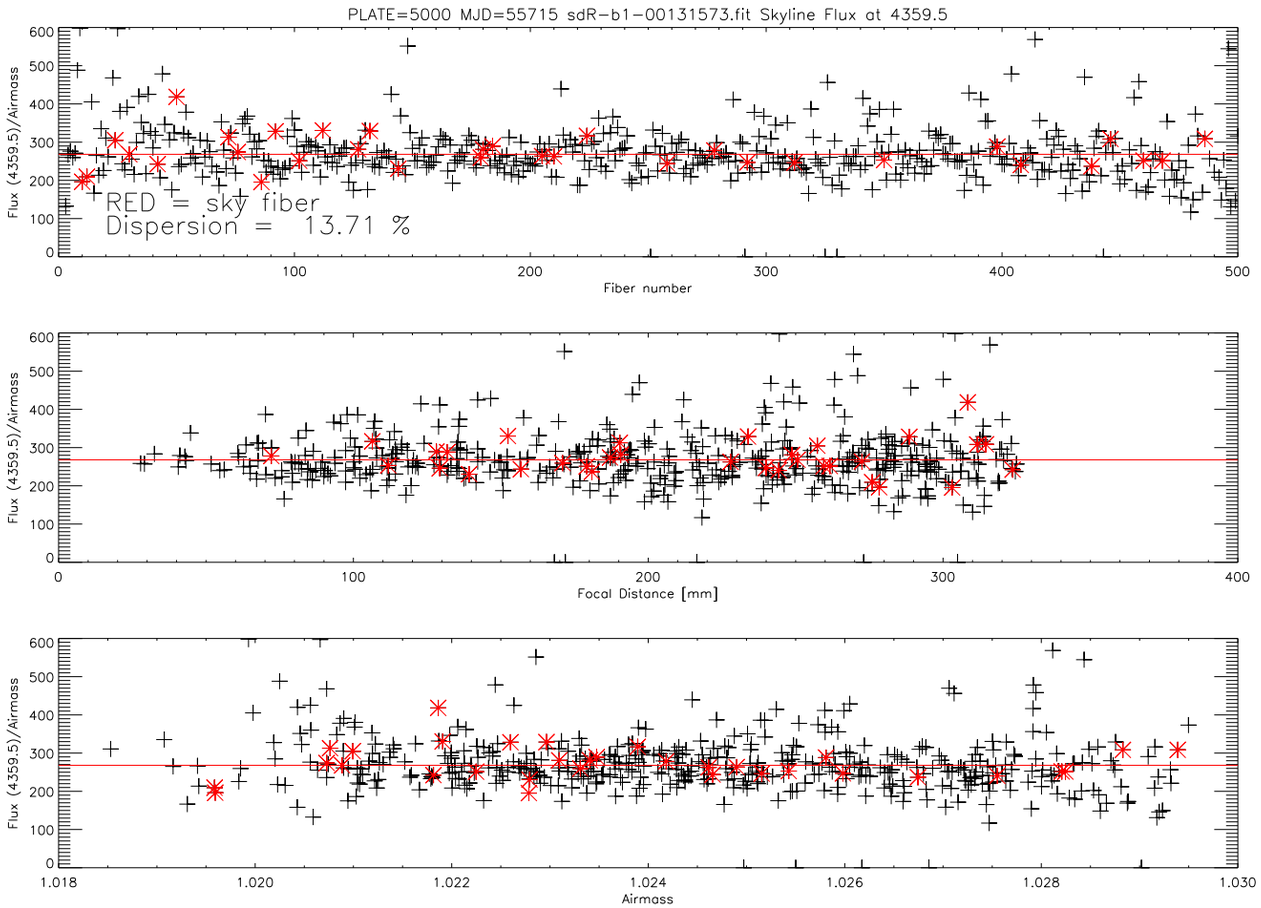
Median Sky-Sub Flux
Fiber number

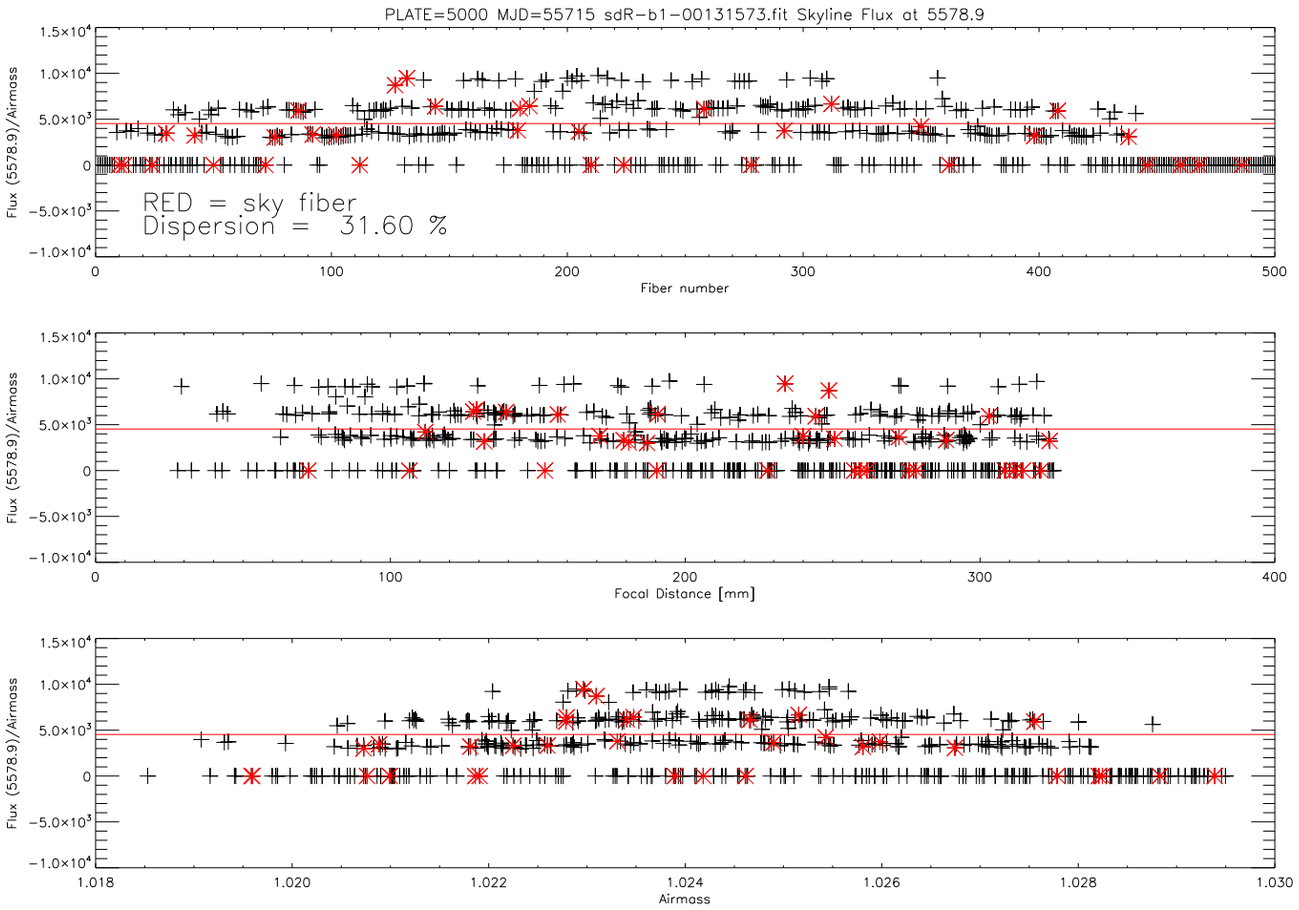

PLATE=5000 MJD=55715 sdR-b1-00131573.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

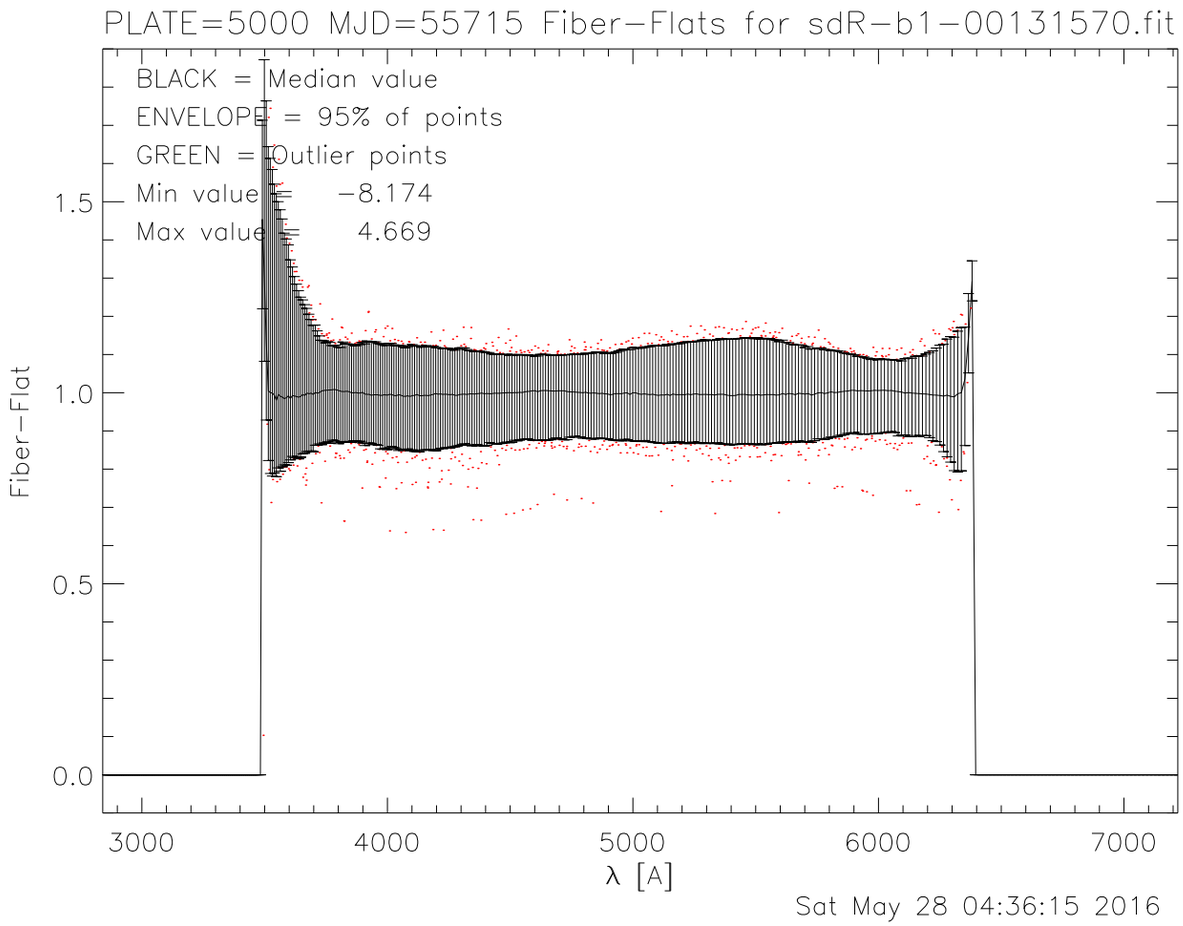

PLATE=5000 MJD=55715 sdR-b1-00131573.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
-400
5570
5575
5580
5585
5590
λ [A]

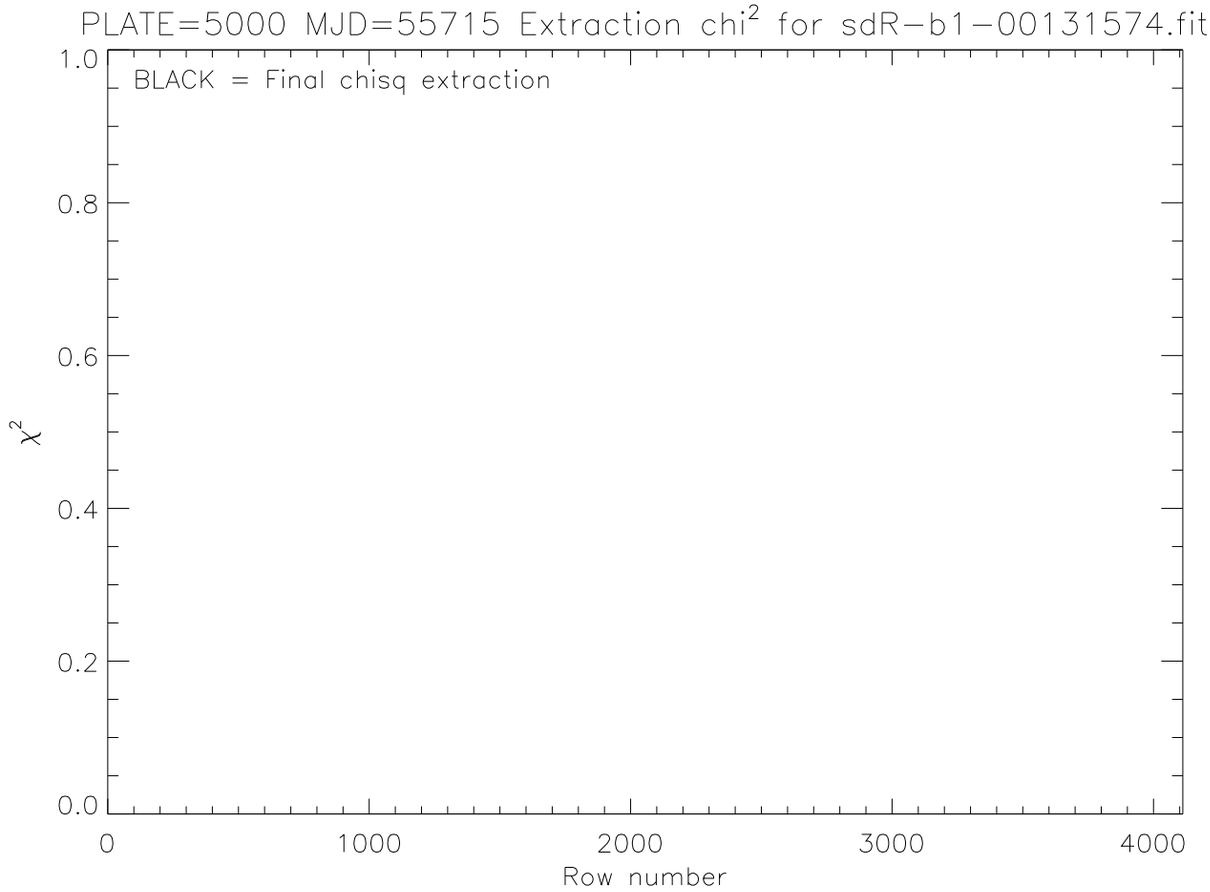
Number of sky fibers = 34

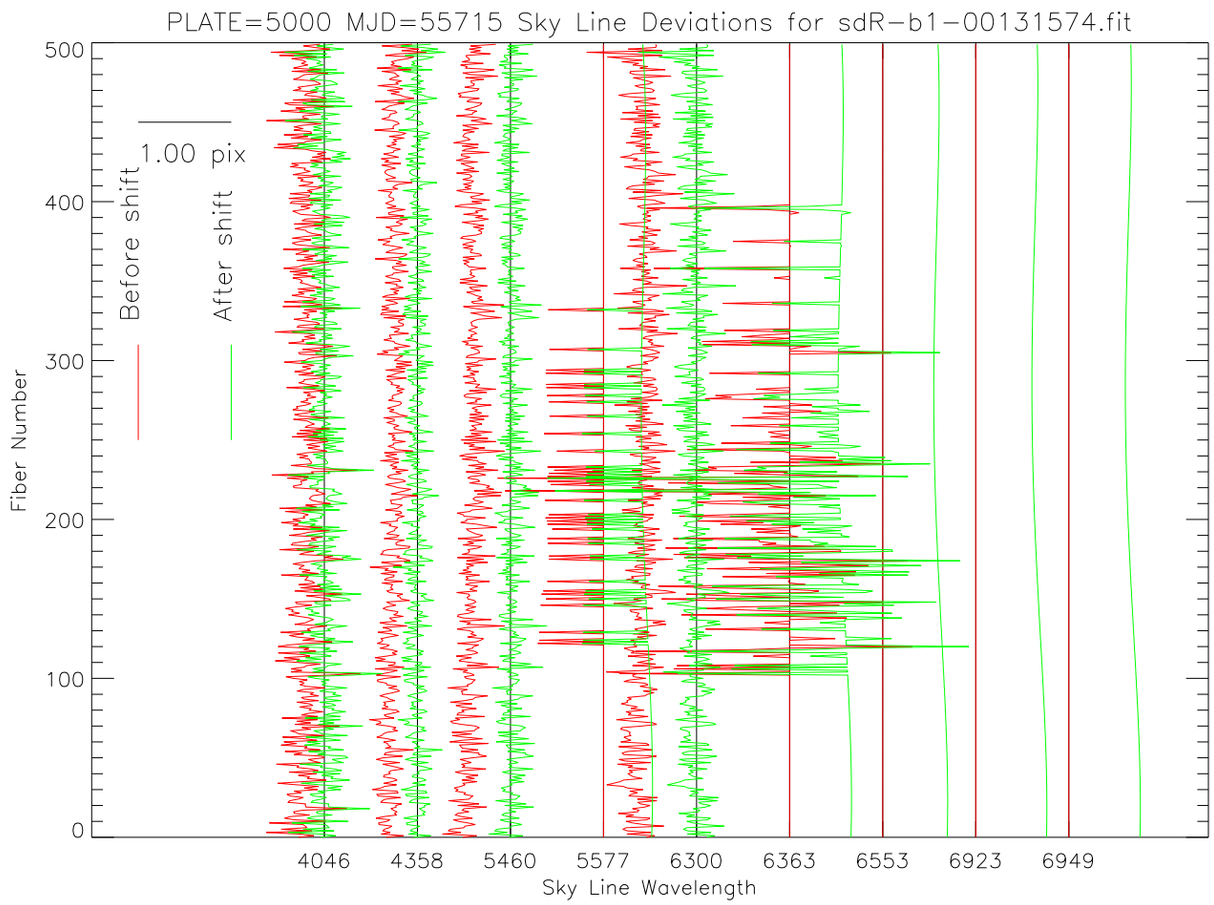


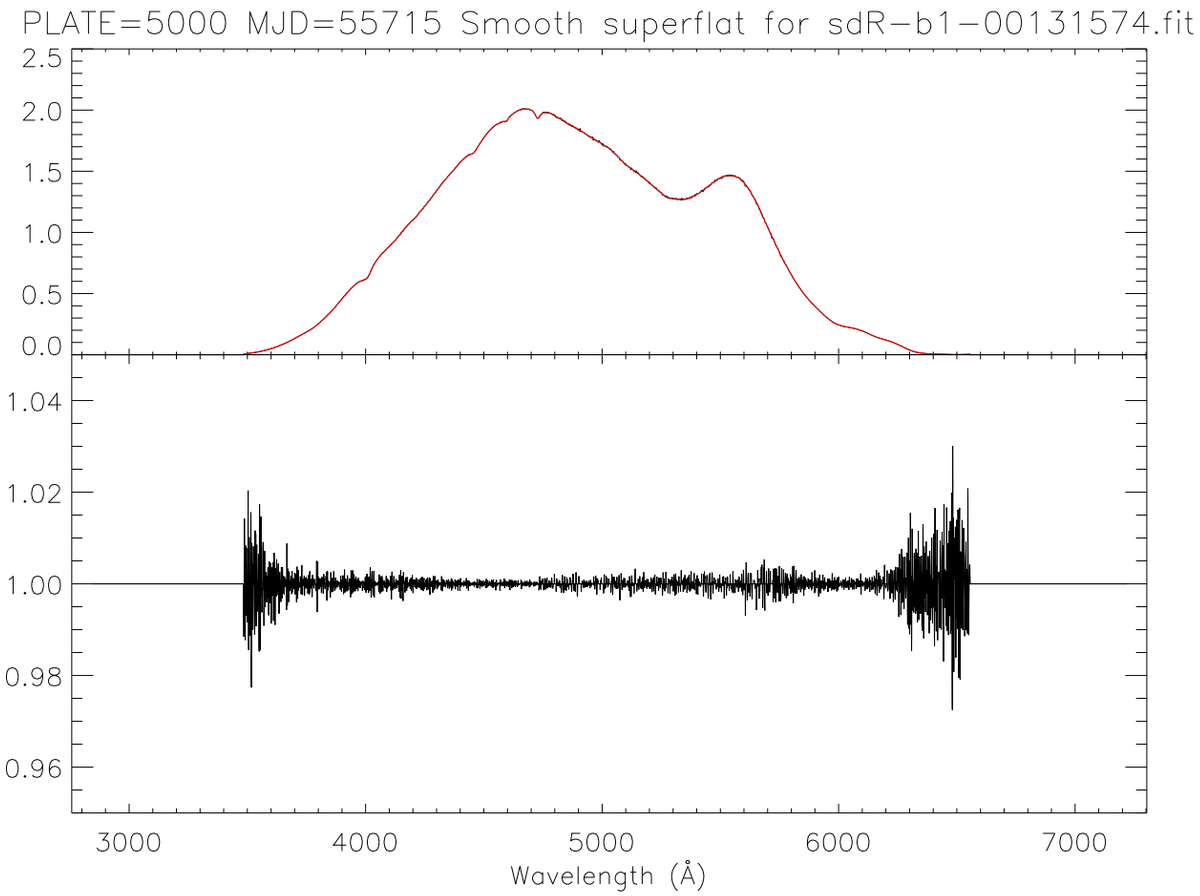

PLATE=5000 MJD=55715 sdR-b1-00131573.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 13.71 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

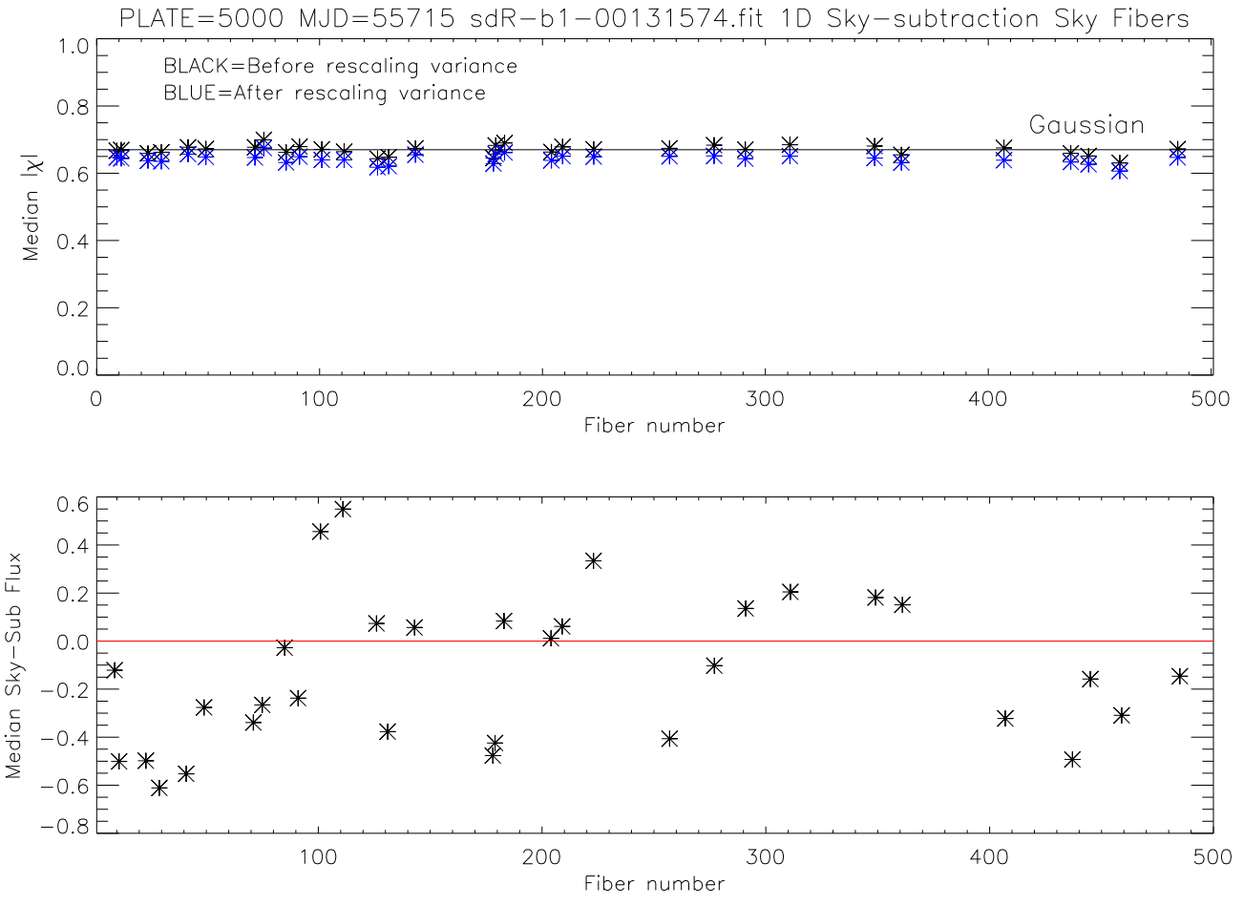

PLATE=5000 MJD=55715 sdR-b1-00131573.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 31.60 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

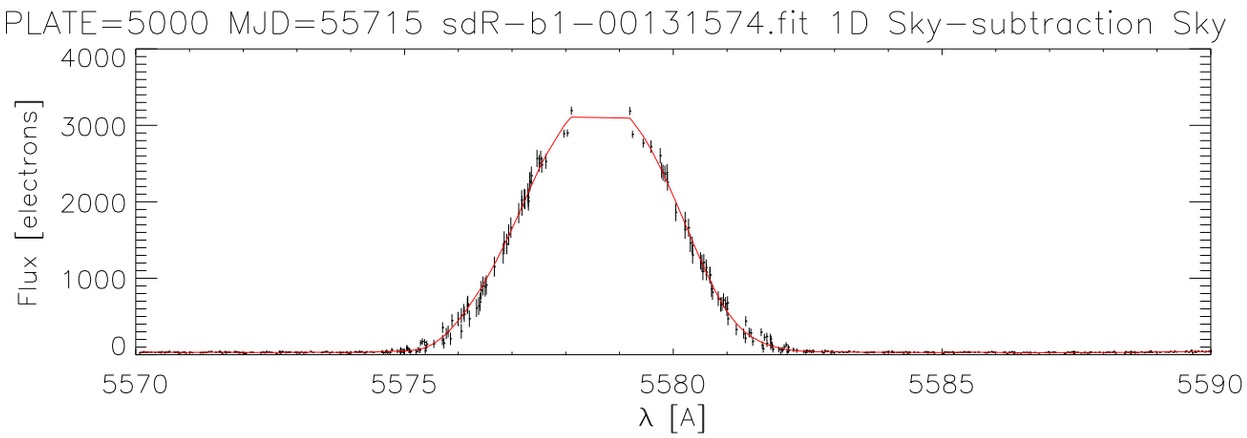

PLATE=5000 MJD=55715 Fiber−Flats for sdR−b1−00131570.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −8.174
Max value = 4.669
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sat May 28 04:36:15 2016

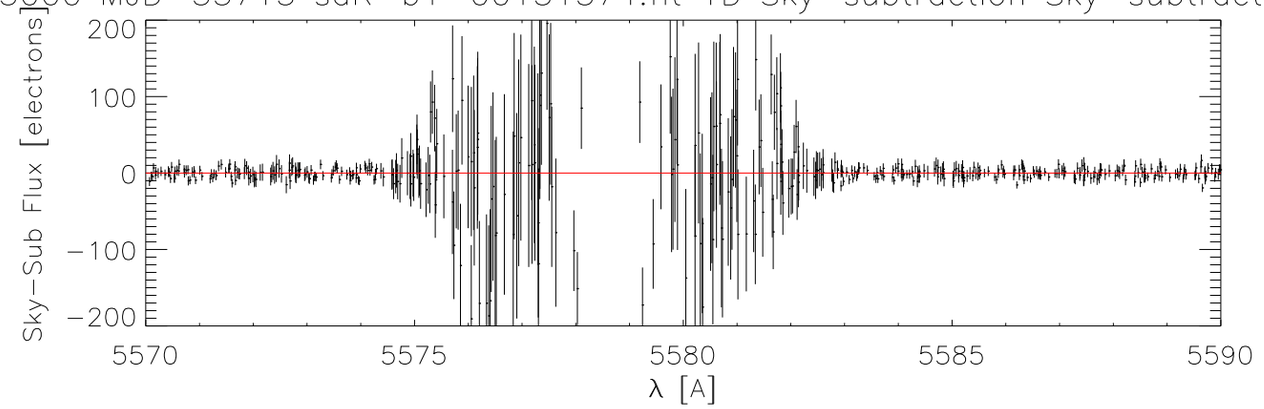

PLATE=5000 MJD=55715 Extraction chi^2 for sdR-b1-00131574.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=5000 MJD=55715 Sky Line Deviations for sdR-b1-00131574.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

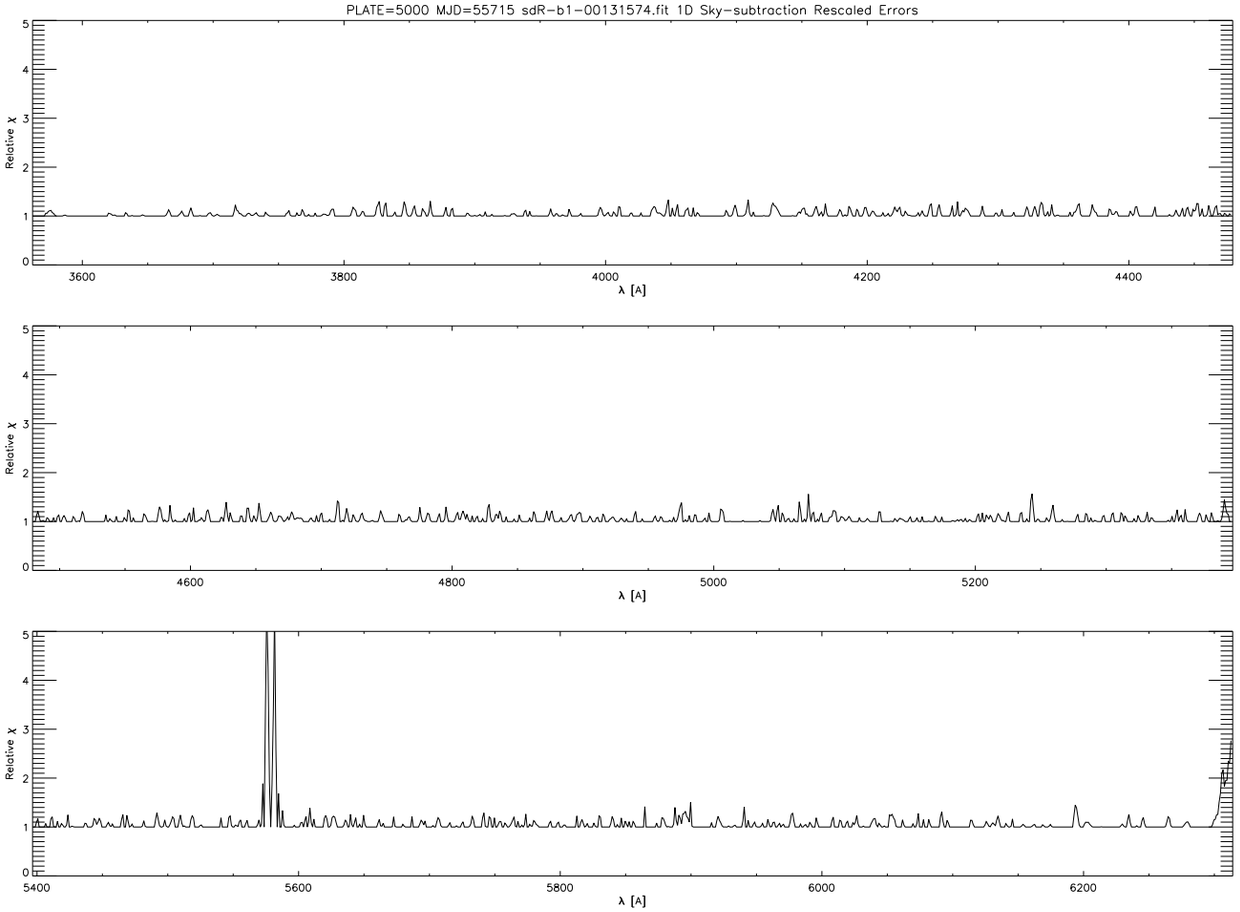

PLATE=5000 MJD=55715 Smooth superflat for sdR-b1-00131574.fit
2.5
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

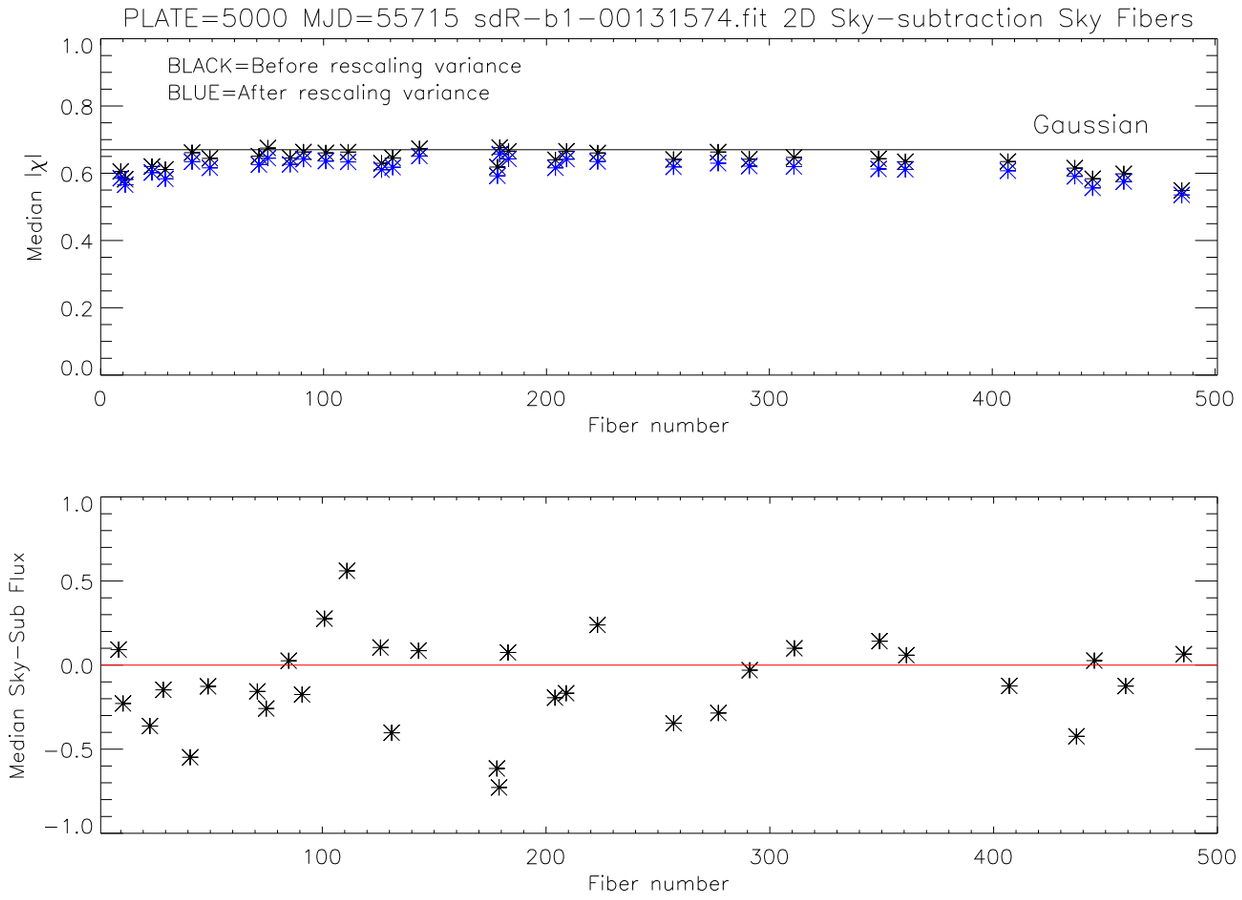

PLATE=5000 MJD=55715 sdR-b1-00131574.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

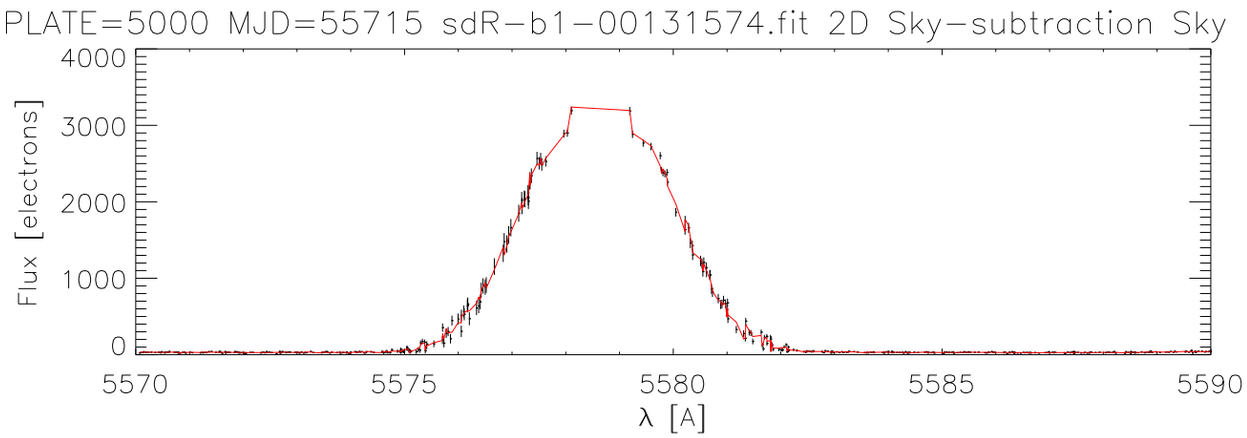

PLATE=5000 MJD=55715 sdR-b1-00131574.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

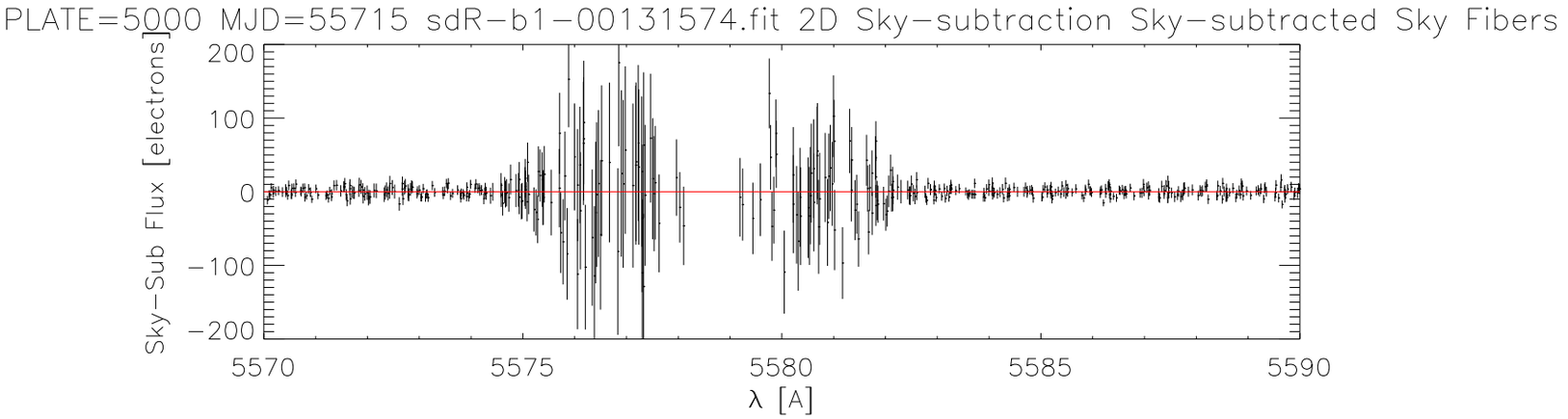

PLATE=5000 MJD=55715 sdR-b1-00131574.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 32

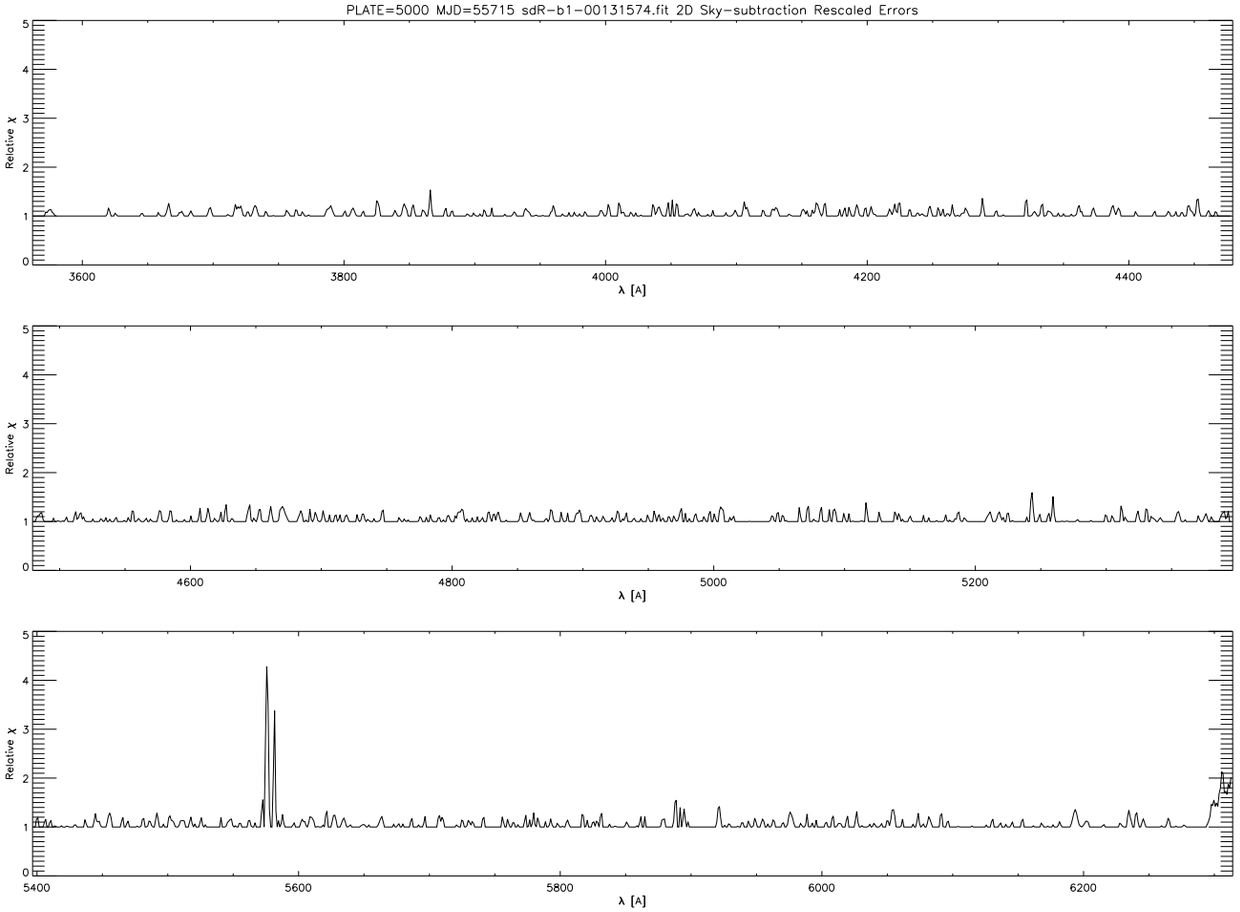


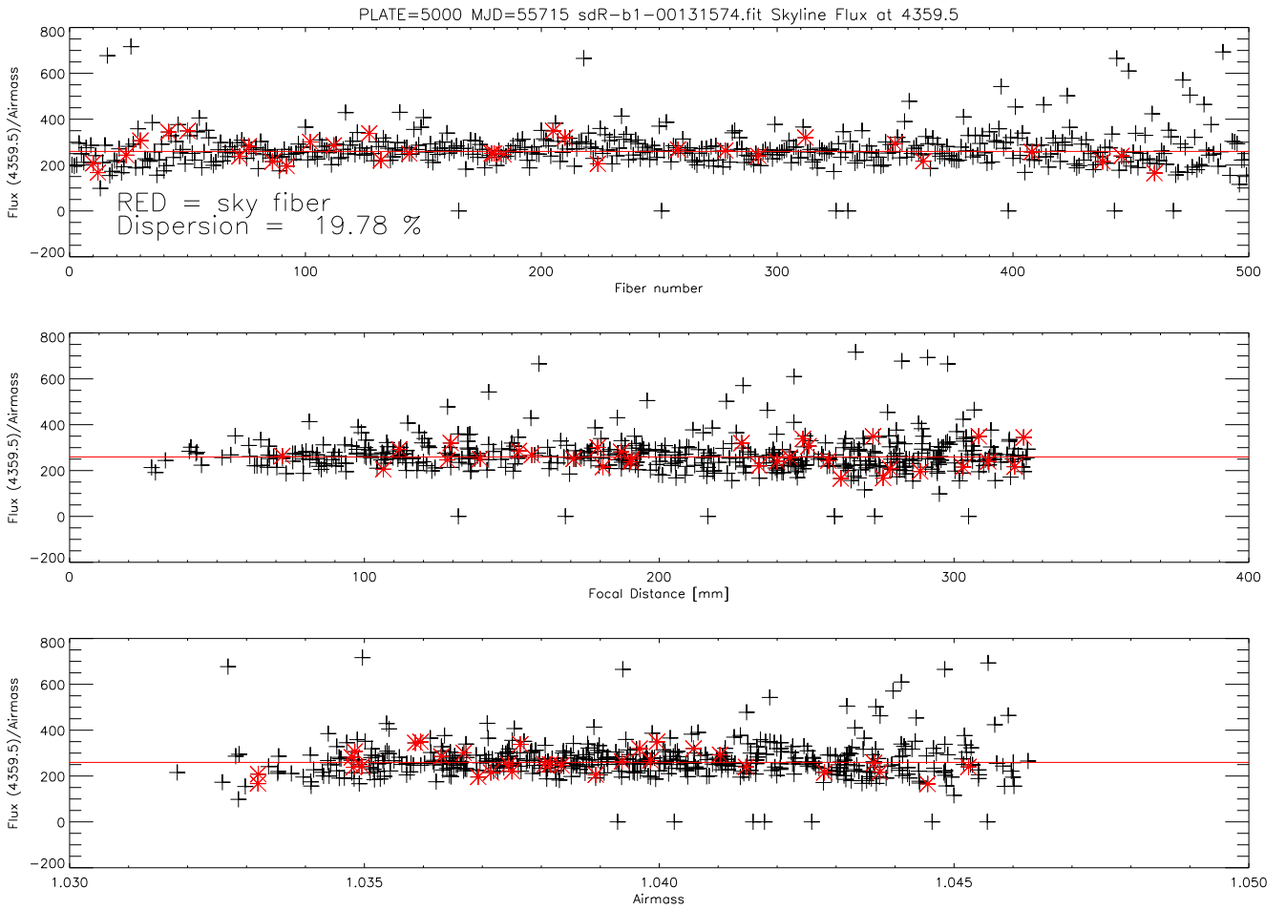

PLATE=5000 MJD=55715 sdR-b1-00131574.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

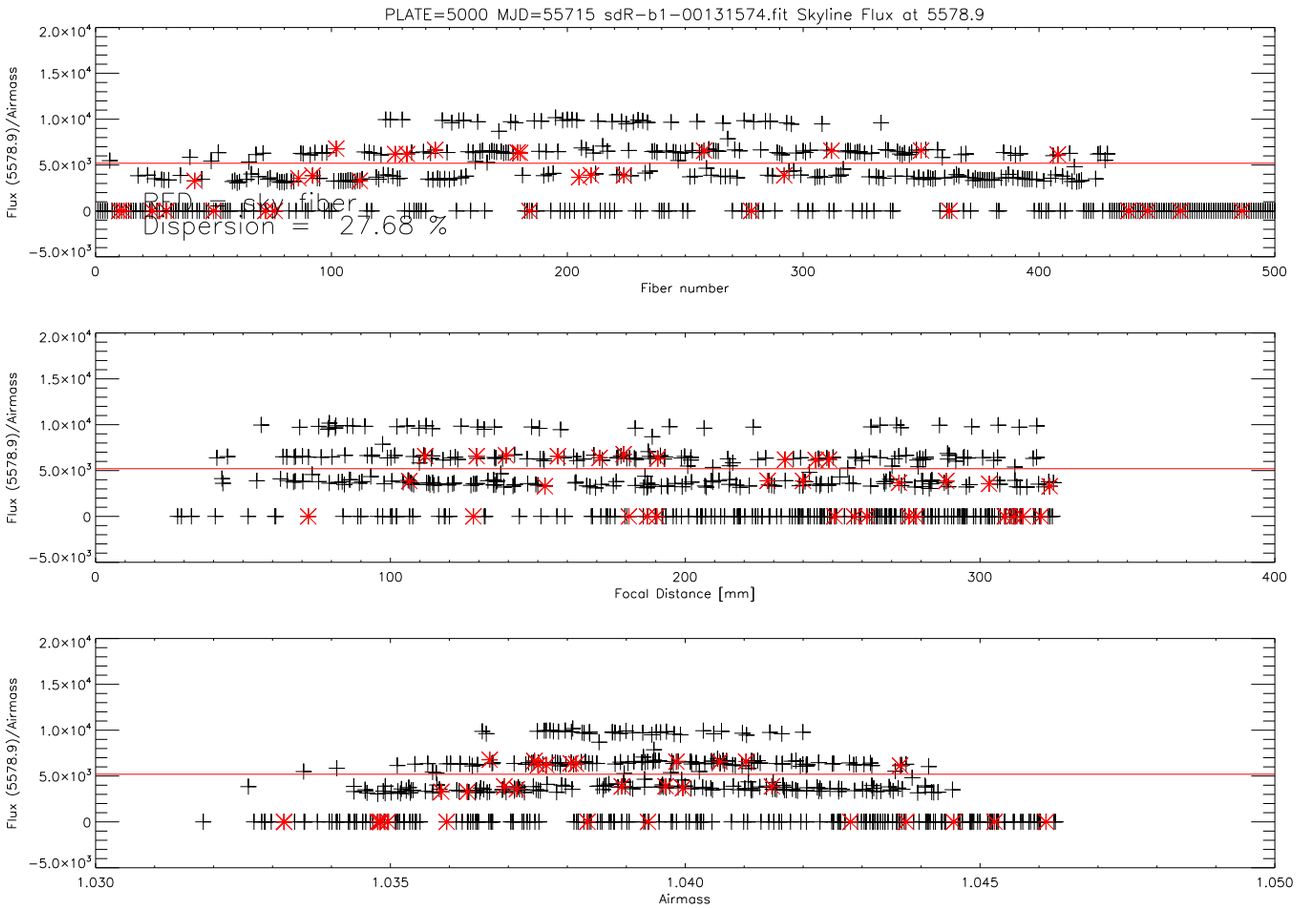

PLATE=5000 MJD=55715 sdR-b1-00131574.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

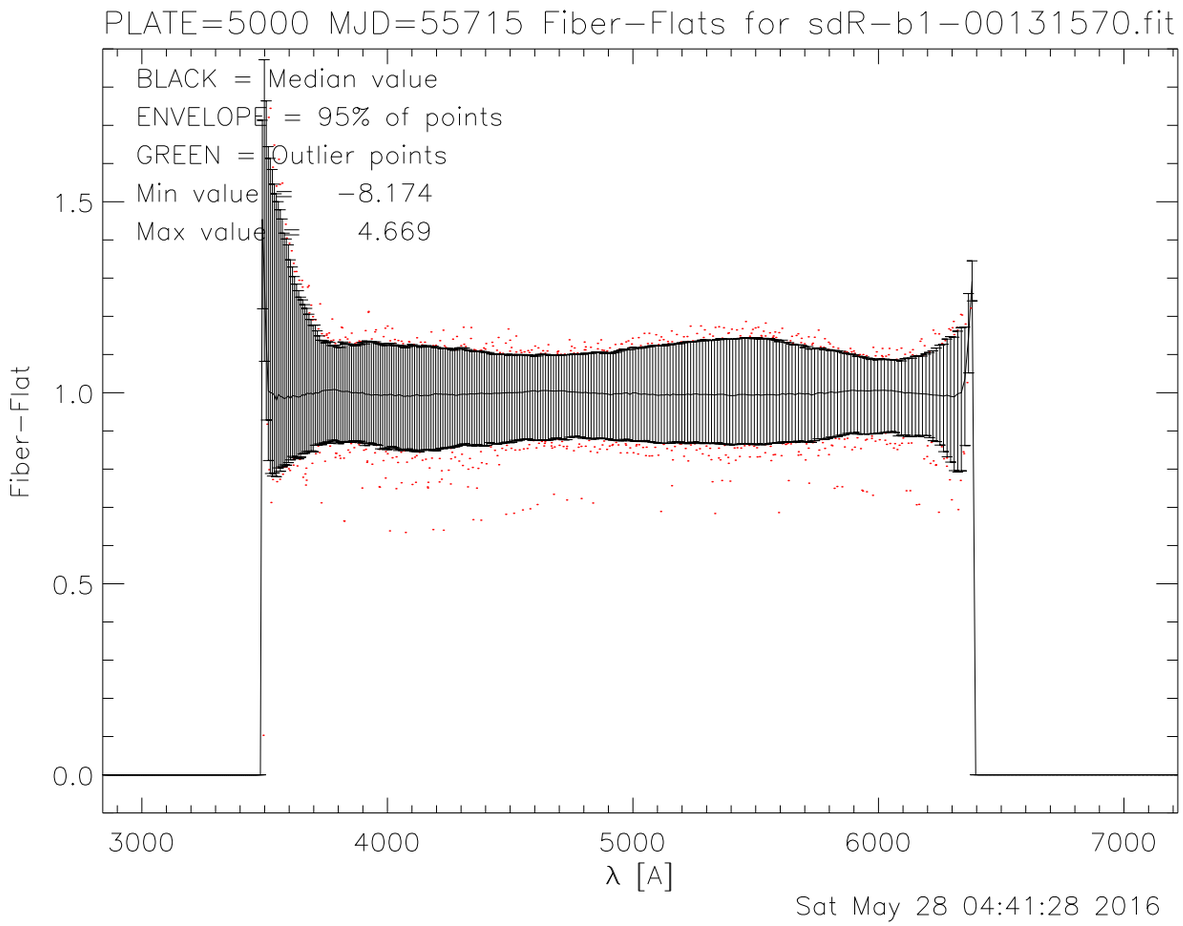

PLATE=5000 MJD=55715 sdR-b1-00131574.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

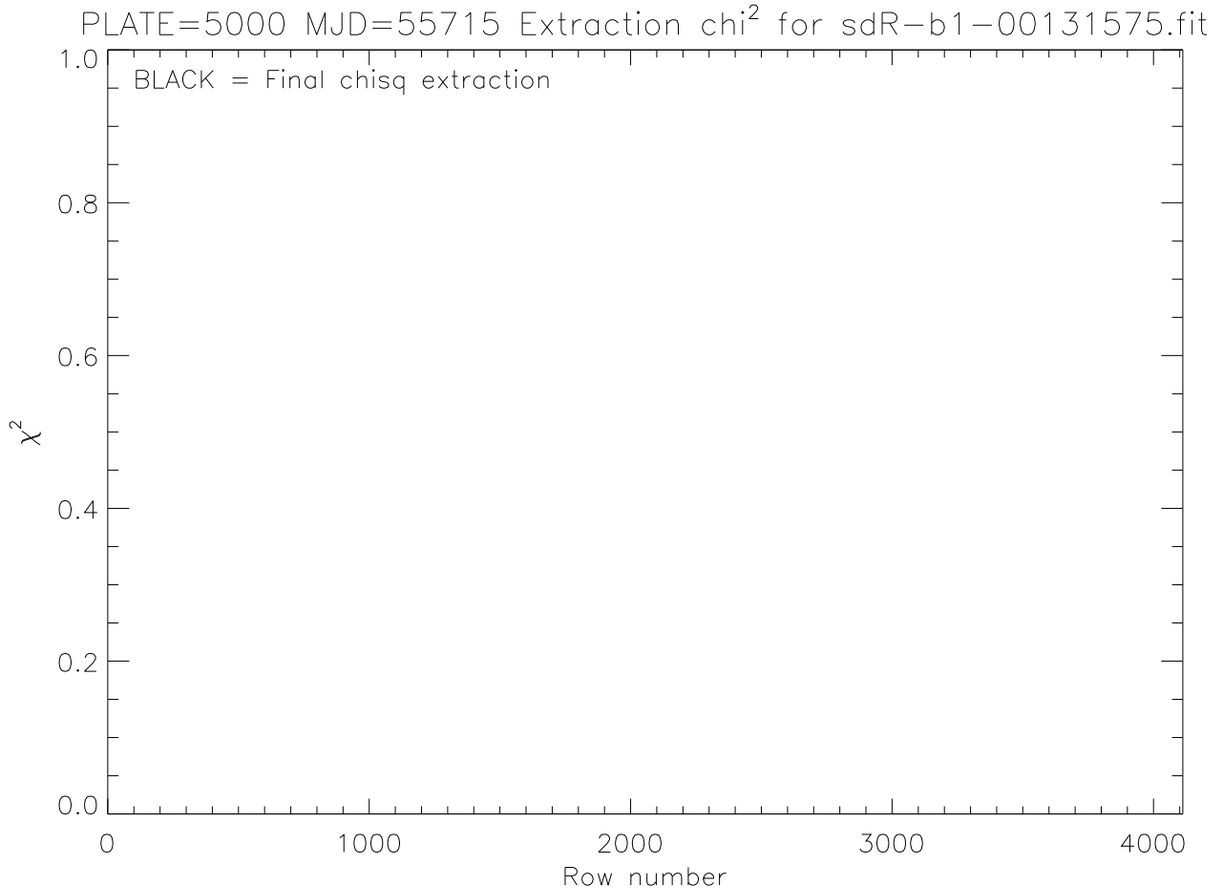
Number of sky fibers = 32

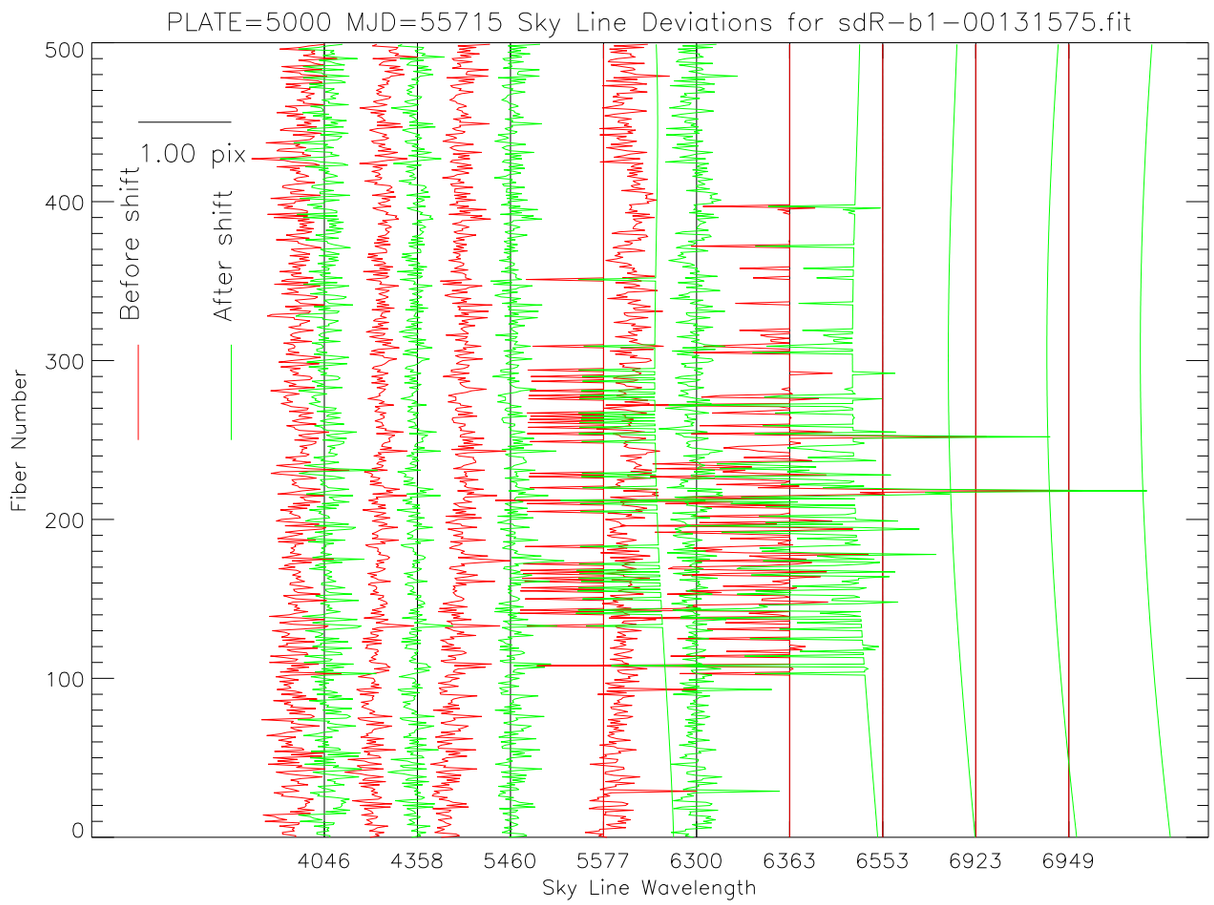


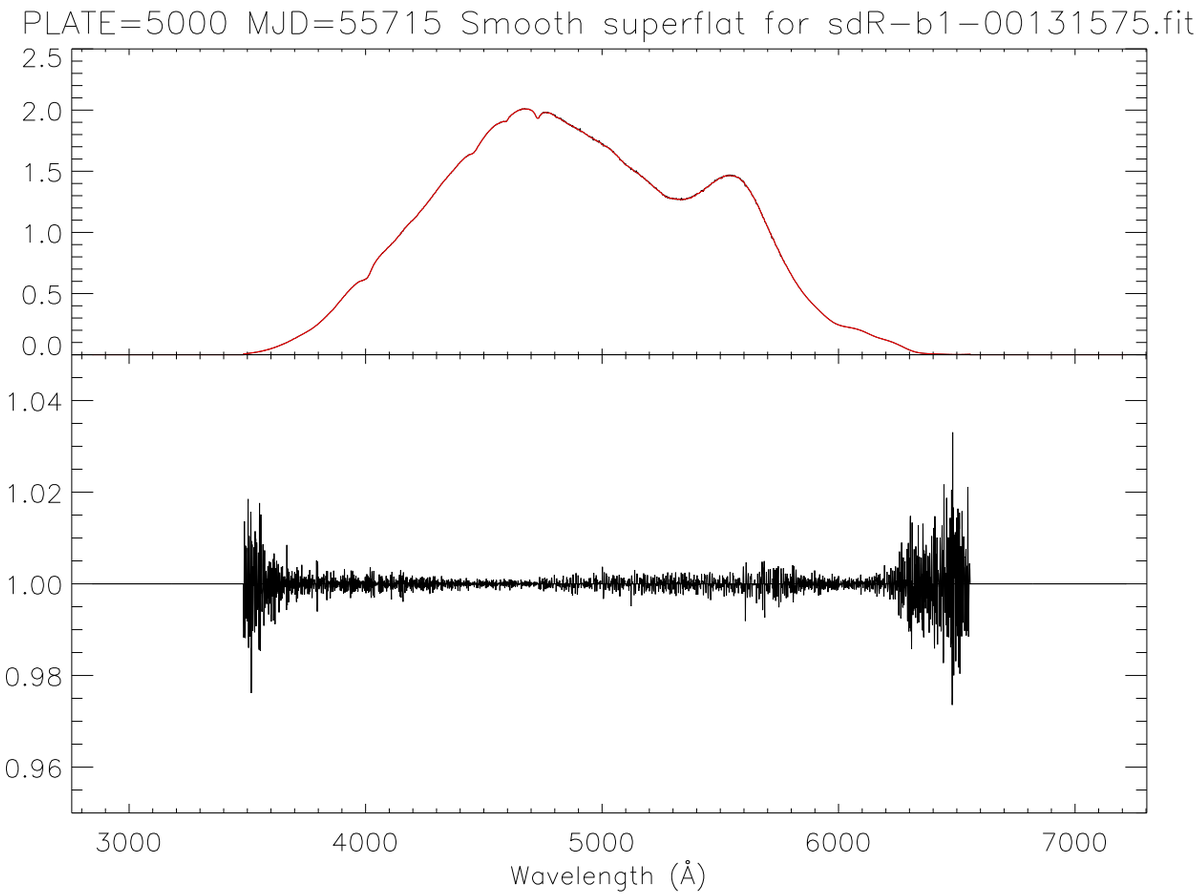

PLATE=5000 MJD=55715 sdR-b1-00131574.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 19.78 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

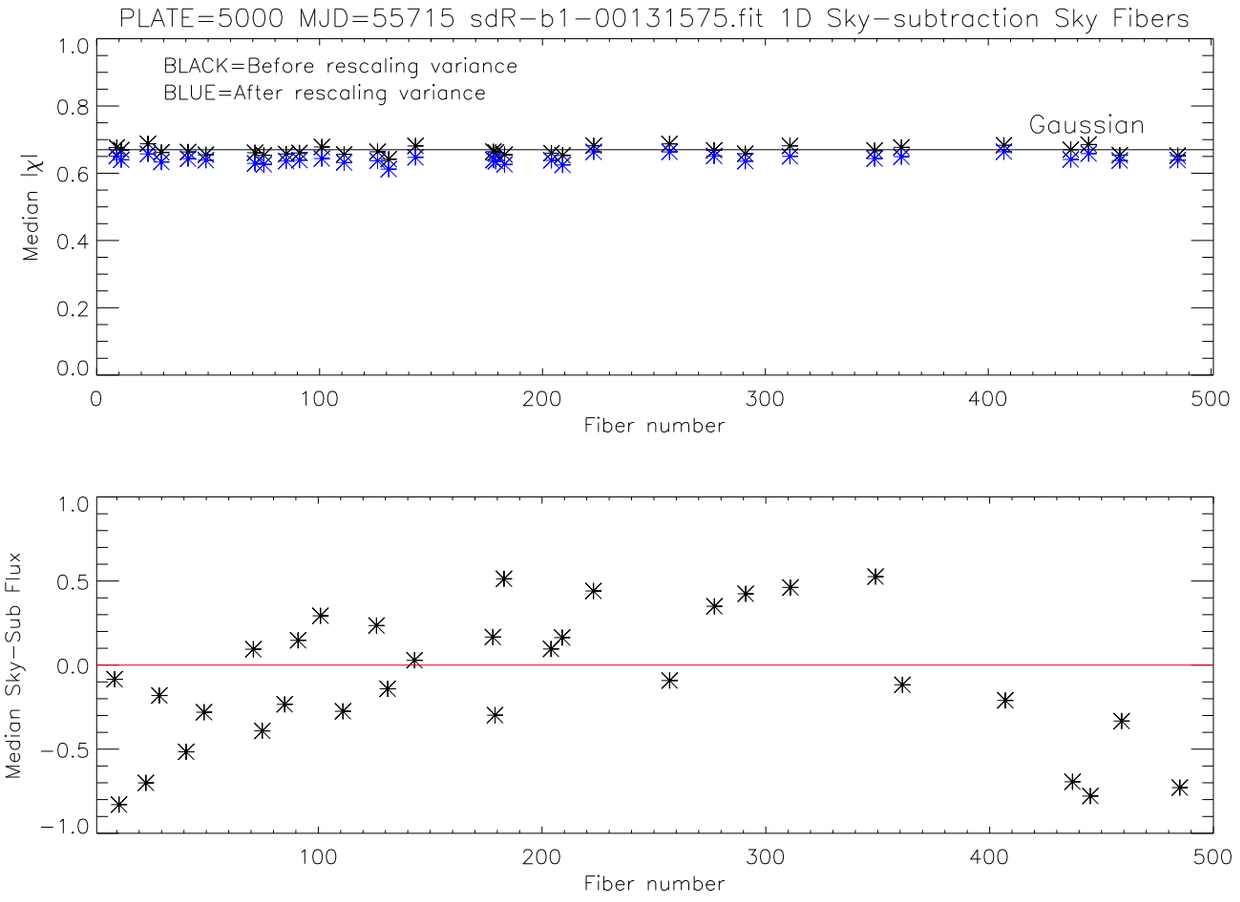

PLATE=5000 MJD=55715 sdR-b1-00131574.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Red = sky fiber
Dispersion = 27.68 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

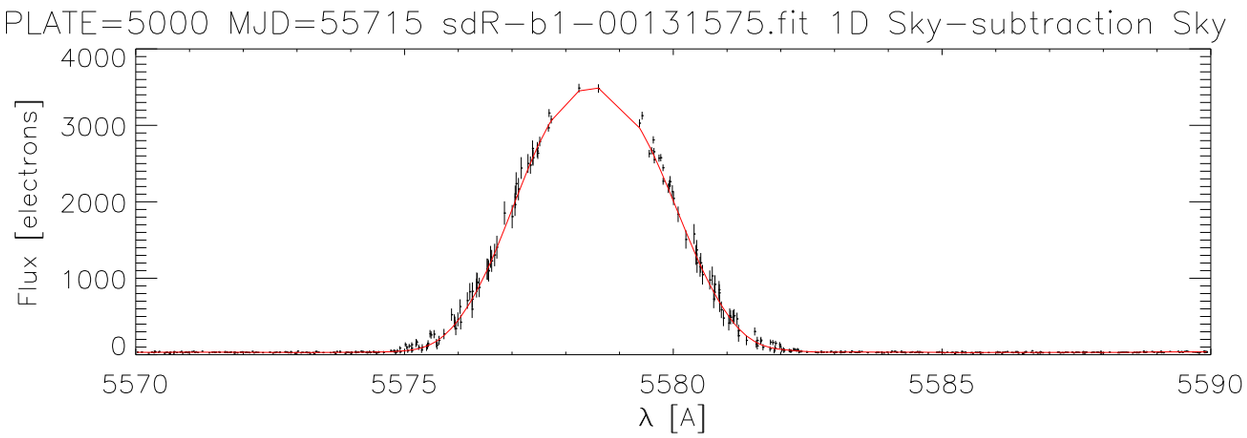

PLATE=5000 MJD=55715 Fiber−Flats for sdR−b1−00131570.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −8.174
Max value = 4.669
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sat May 28 04:41:28 2016

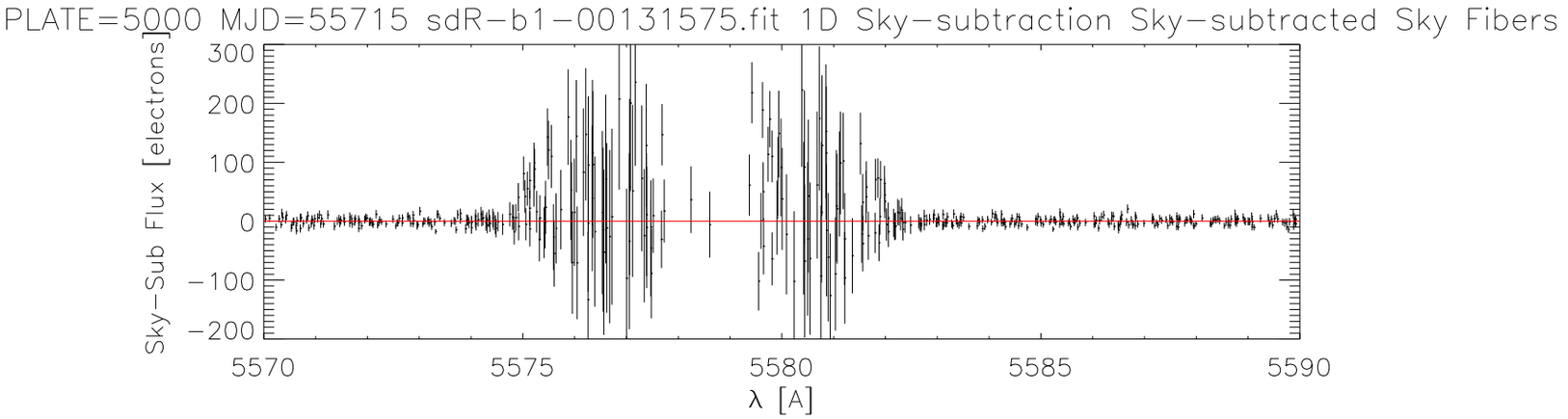

PLATE=5000 MJD=55715 Extraction chi^2 for sdR−b1−00131575.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=5000 MJD=55715 Sky Line Deviations for sdR-b1-00131575.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

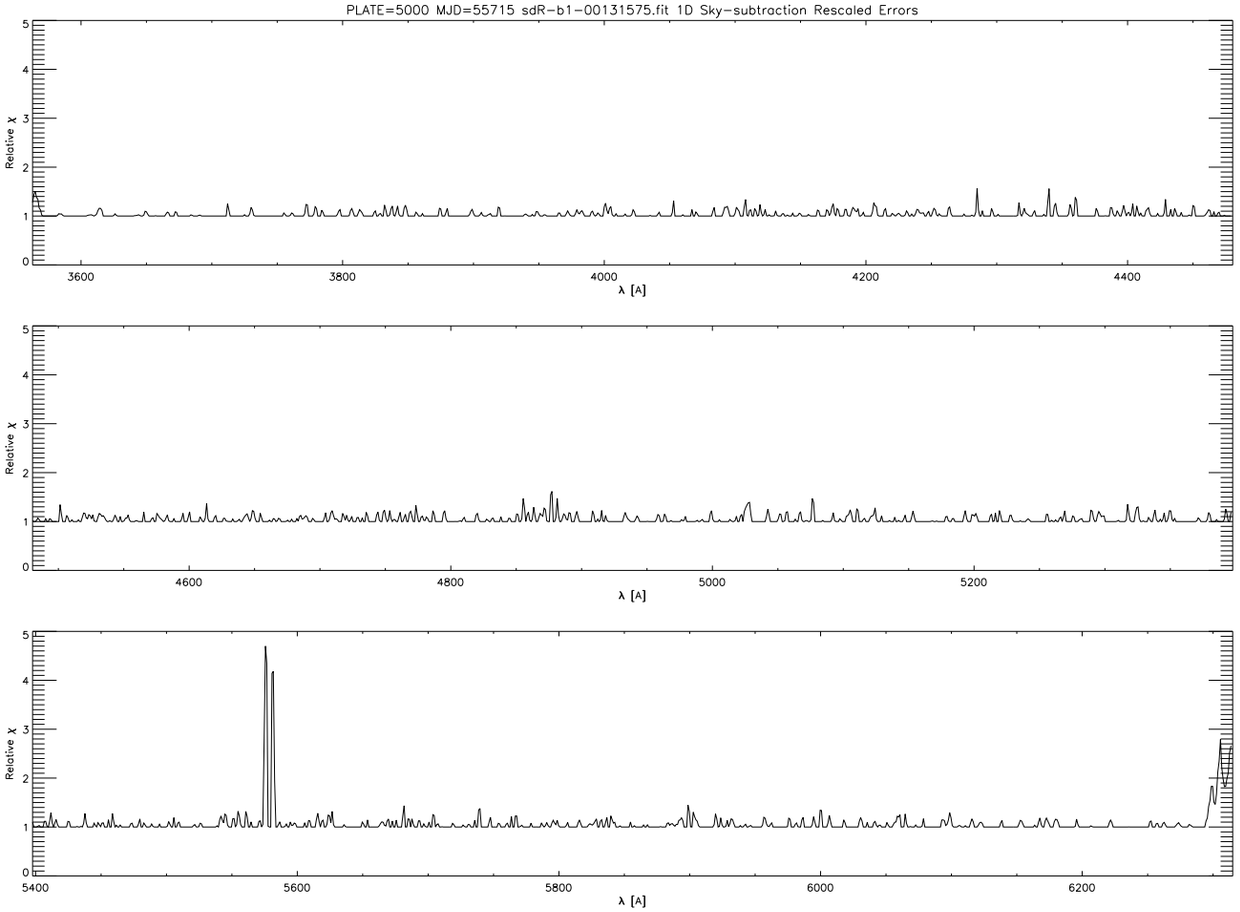

PLATE=5000 MJD=55715 Smooth superflat for sdR-b1-00131575.fit
2.5
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

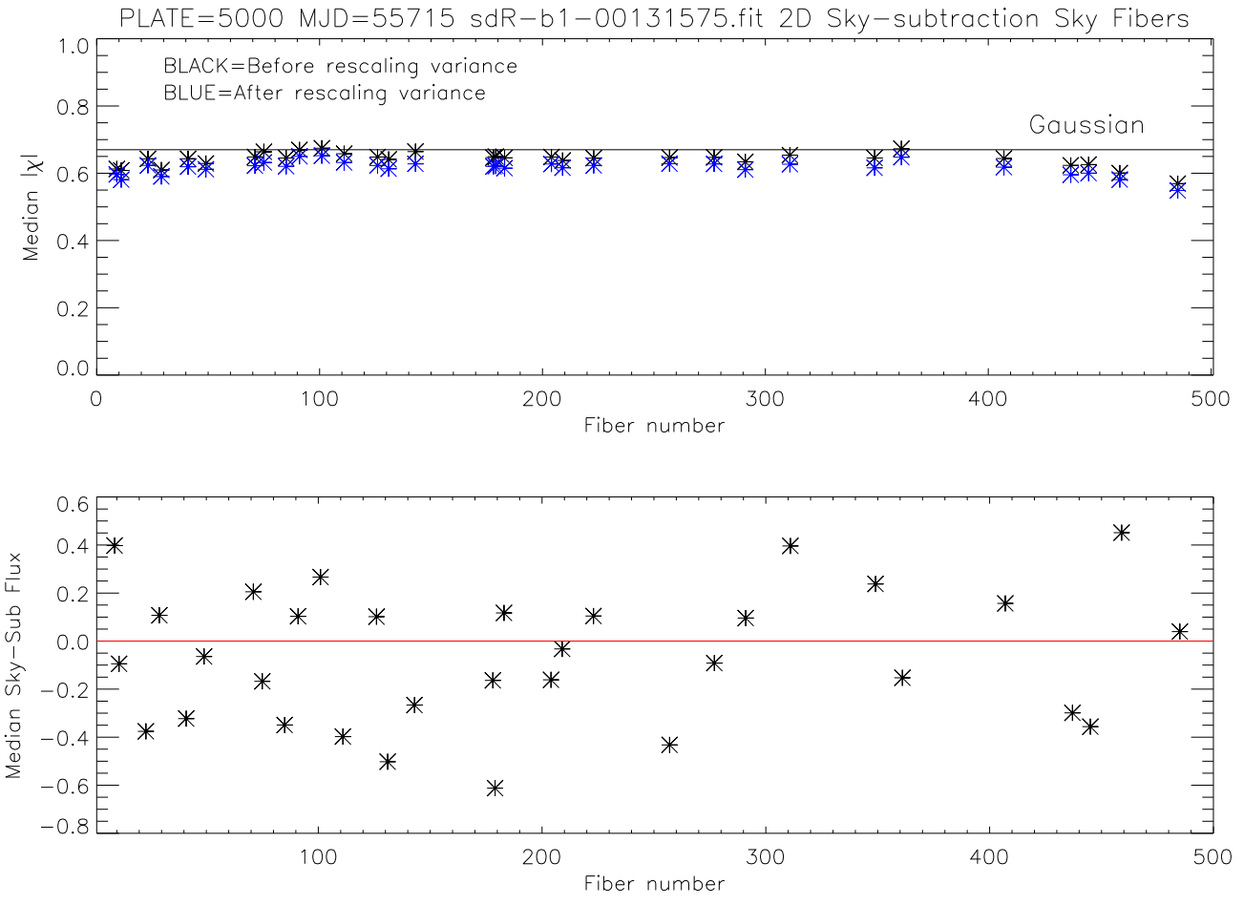

PLATE=5000 MJD=55715 sdR-b1-00131575.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

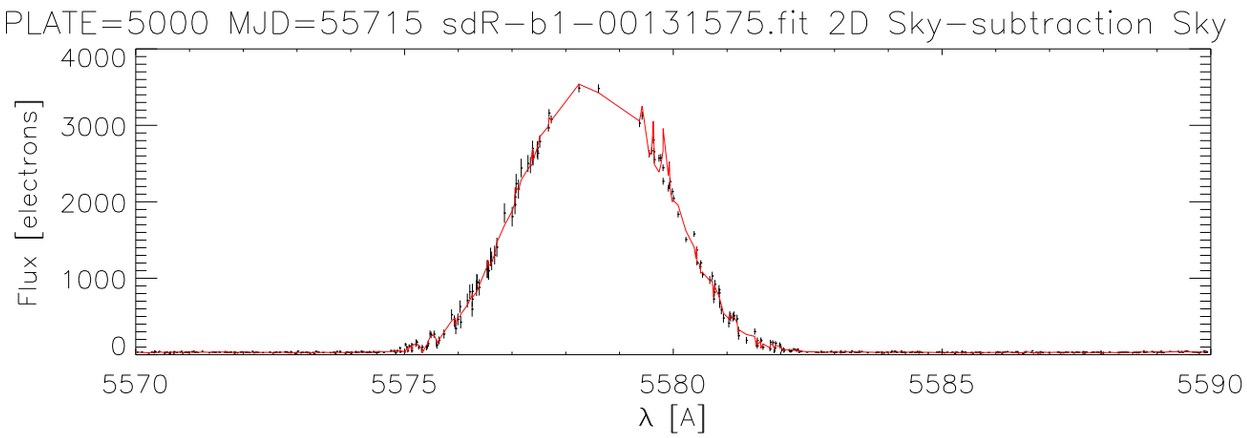

PLATE=5000 MJD=55715 sdR-b1-00131575.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

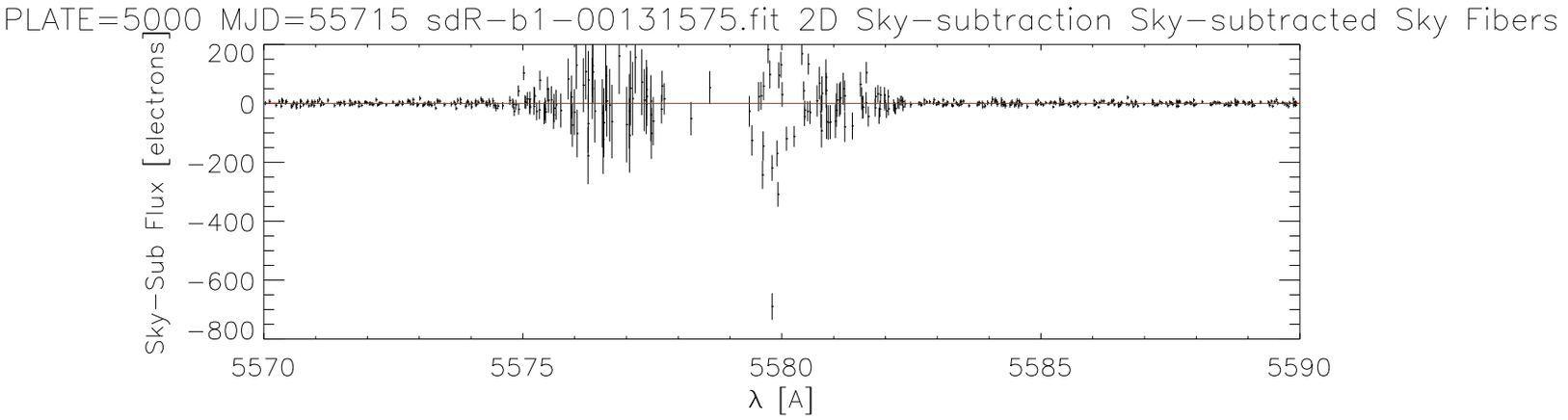

PLATE=5000 MJD=55715 sdR-b1-00131575.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 32

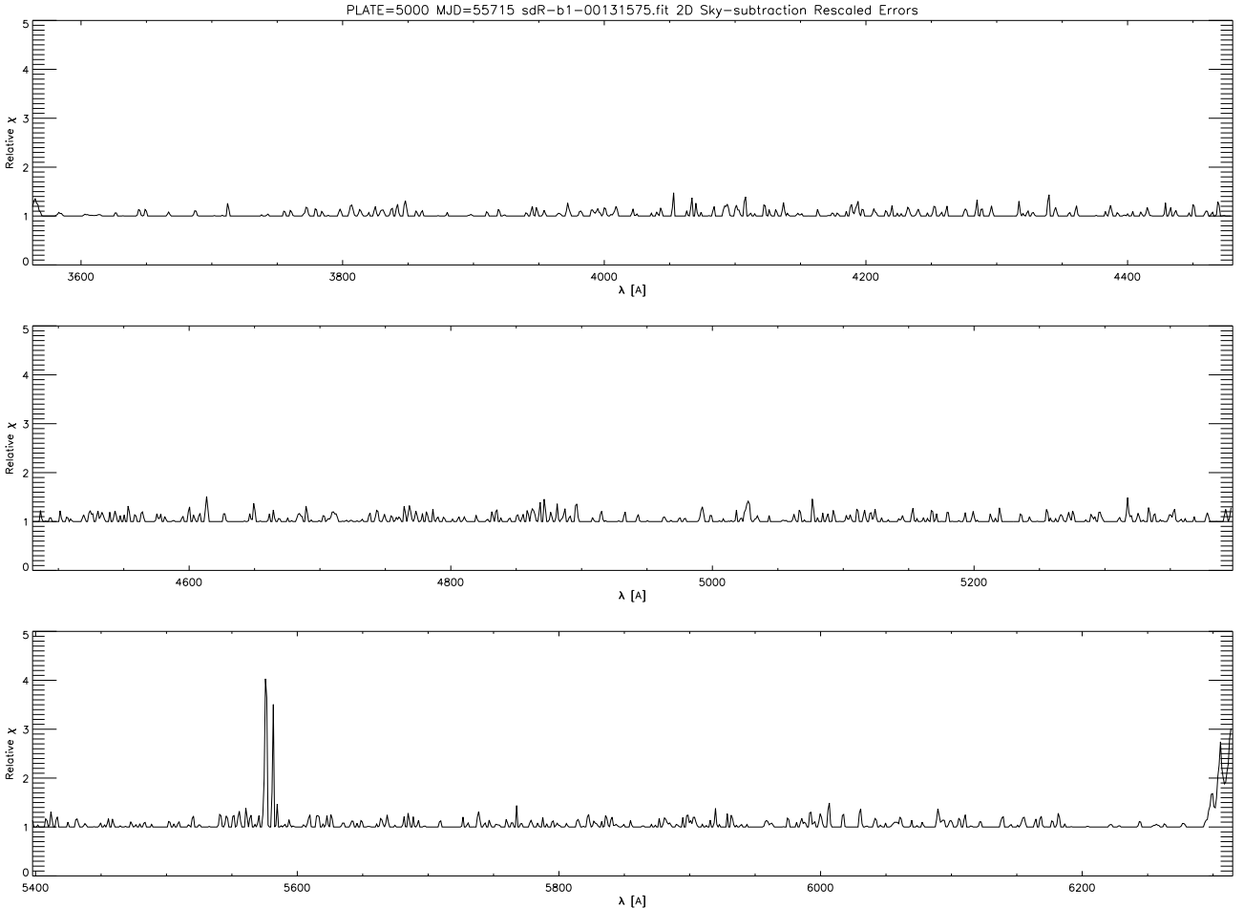


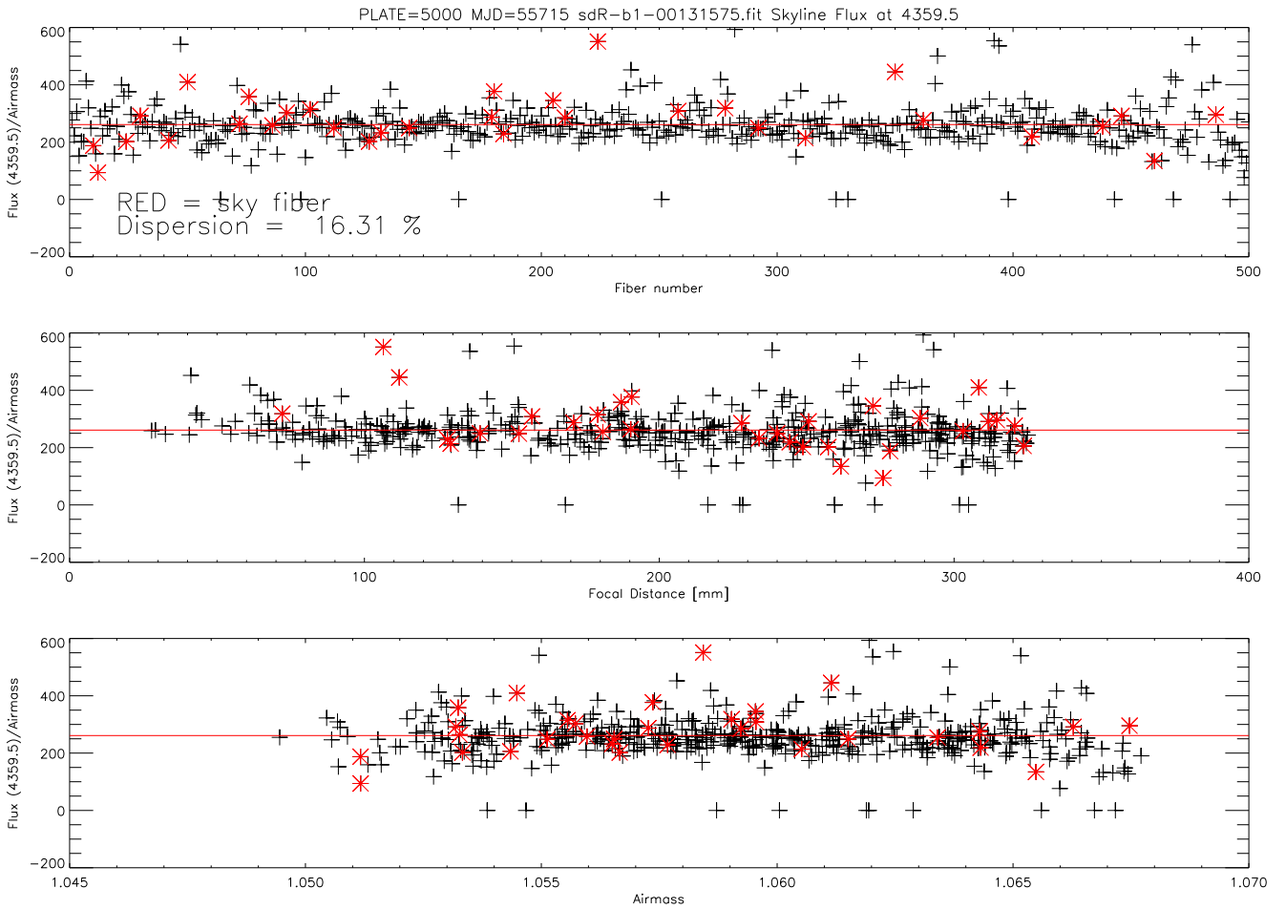

PLATE=5000 MJD=55715 sdR-b1-00131575.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

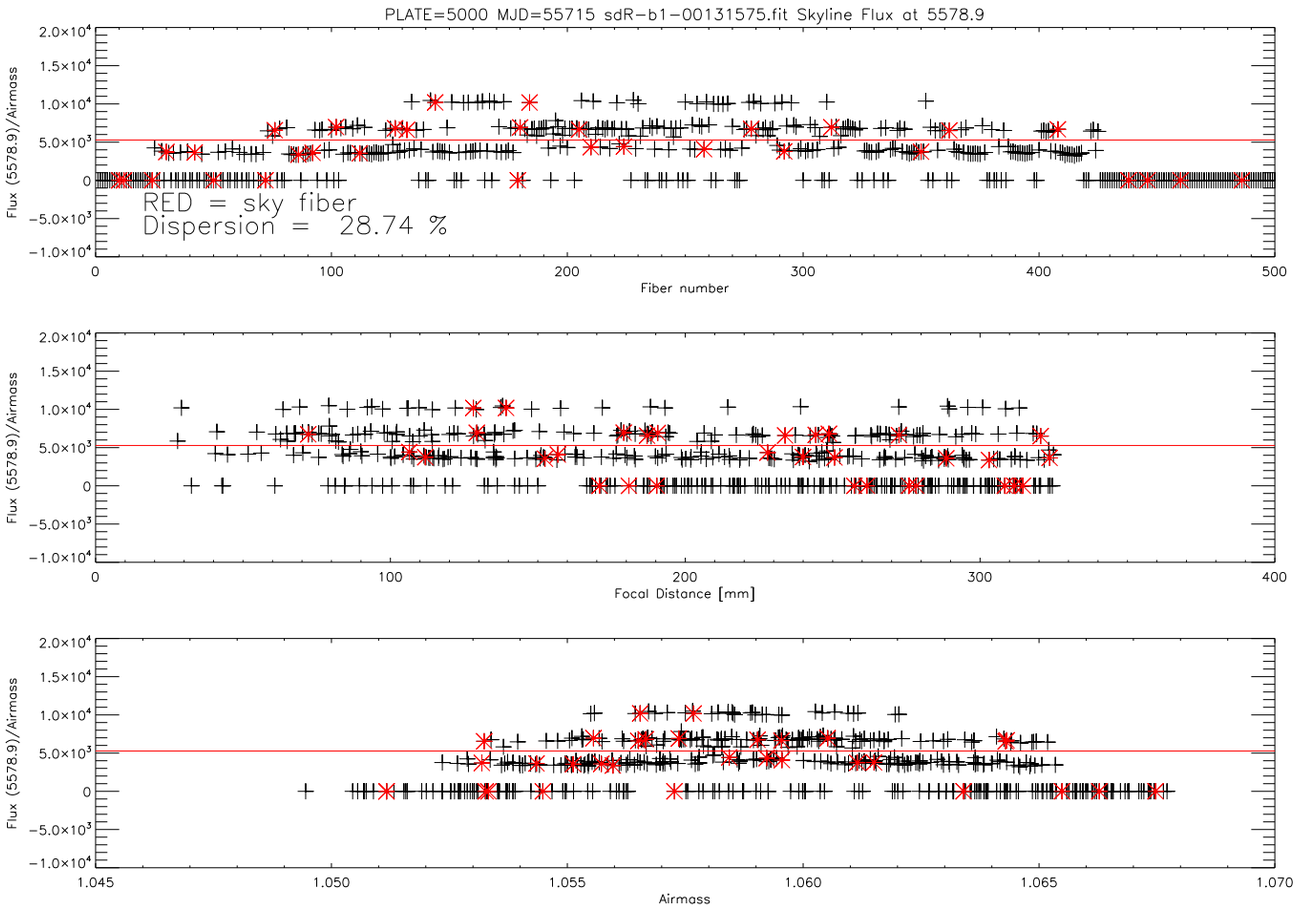

PLATE=5000 MJD=55715 sdR-b1-00131575.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]


PLATE=5000 MJD=55715 sdR-b1-00131575.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
200
0
-200
-400
-600
-800
5570
5575
5580
5585
5590
λ [A]

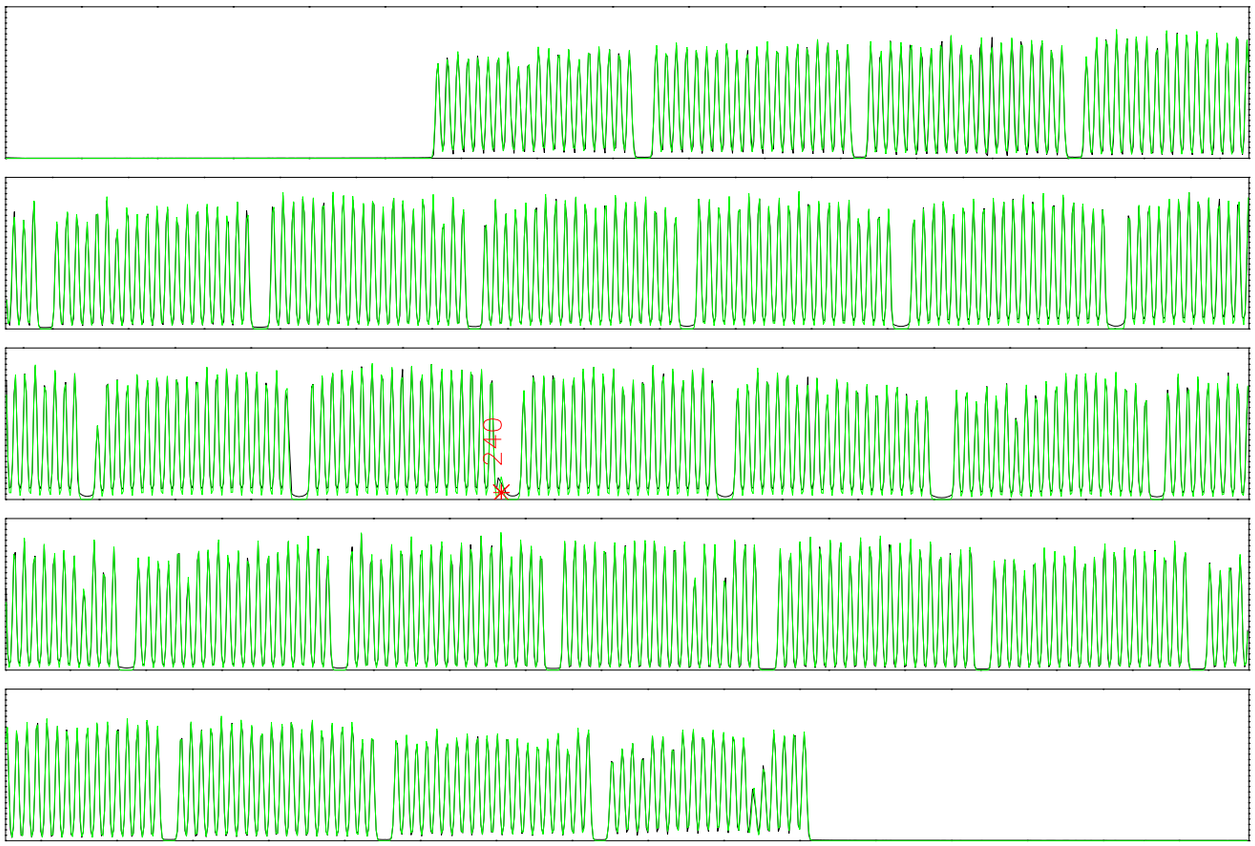
Number of sky fibers = 32

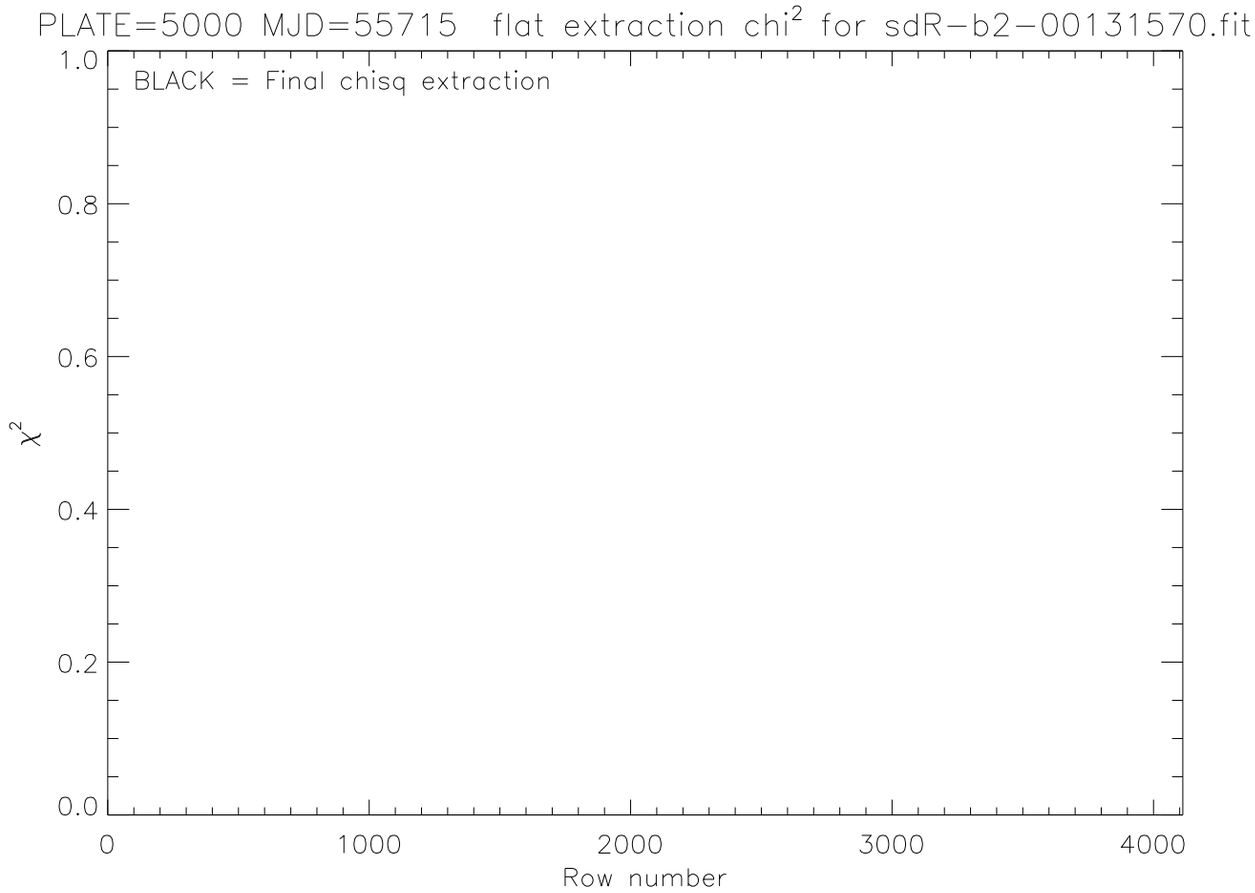


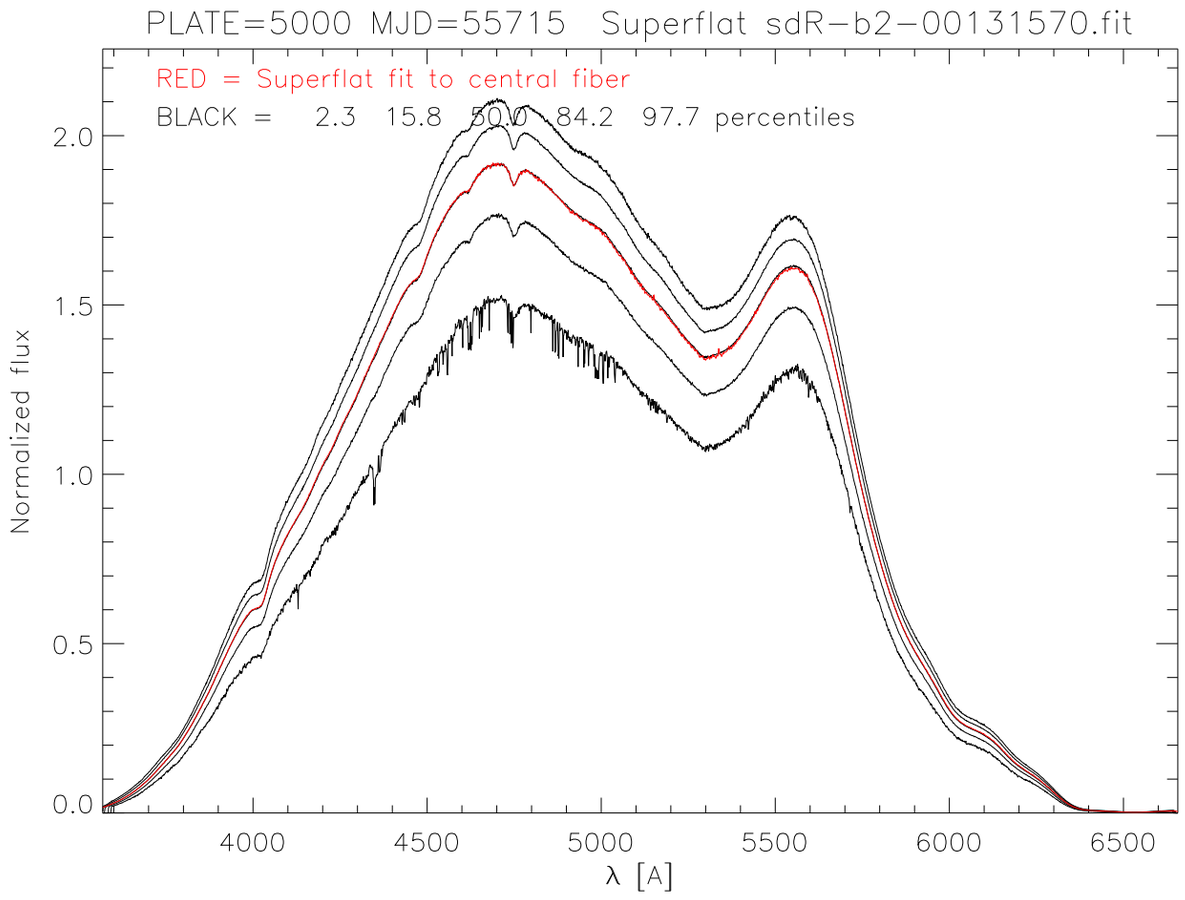

PLATE=5000 MJD=55715 sdR-b1-00131575.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 16.31 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

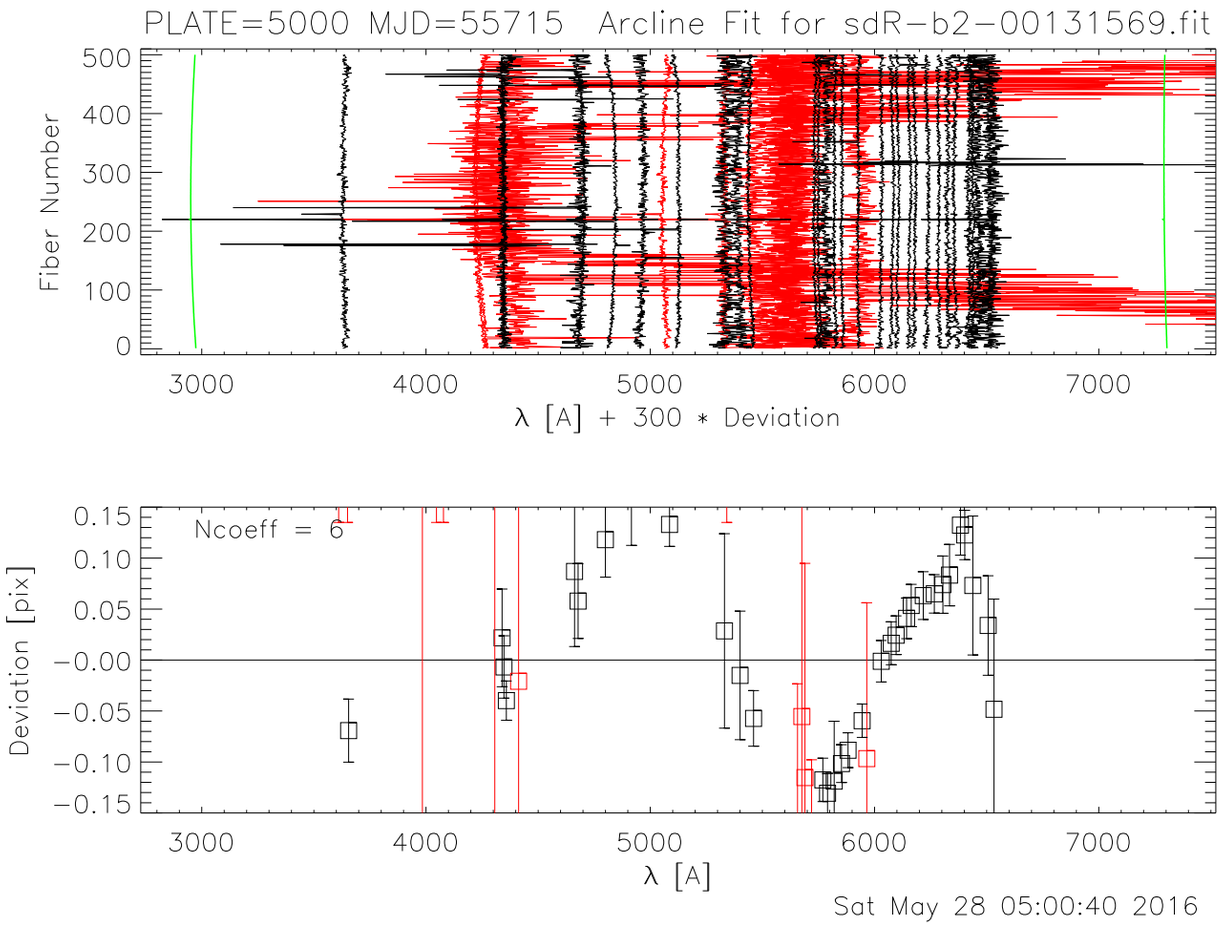

PLATE=5000 MJD=55715 sdR-b1-00131575.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 28.74 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

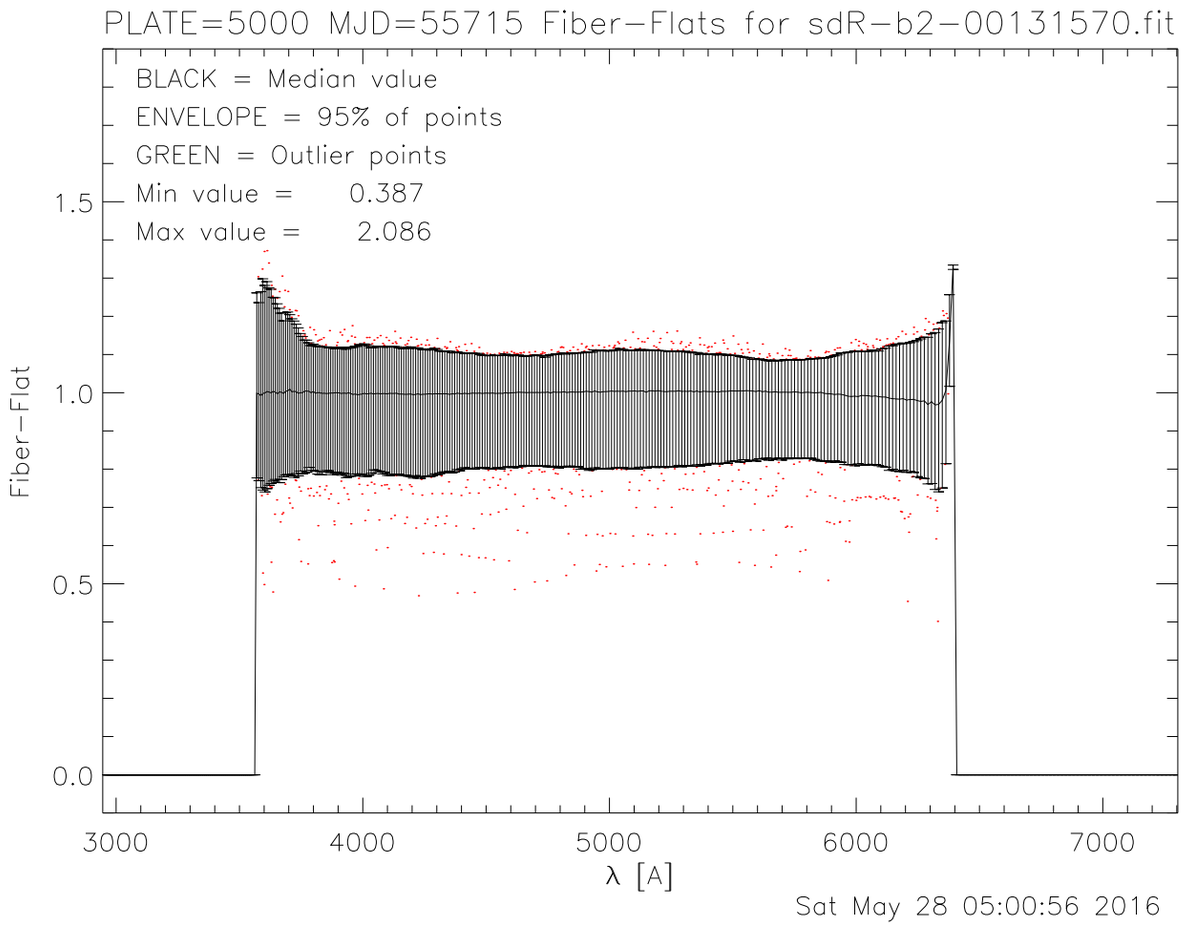
PLATE=5000 MJD=55715 Traces sdR-b2-00131570.fit

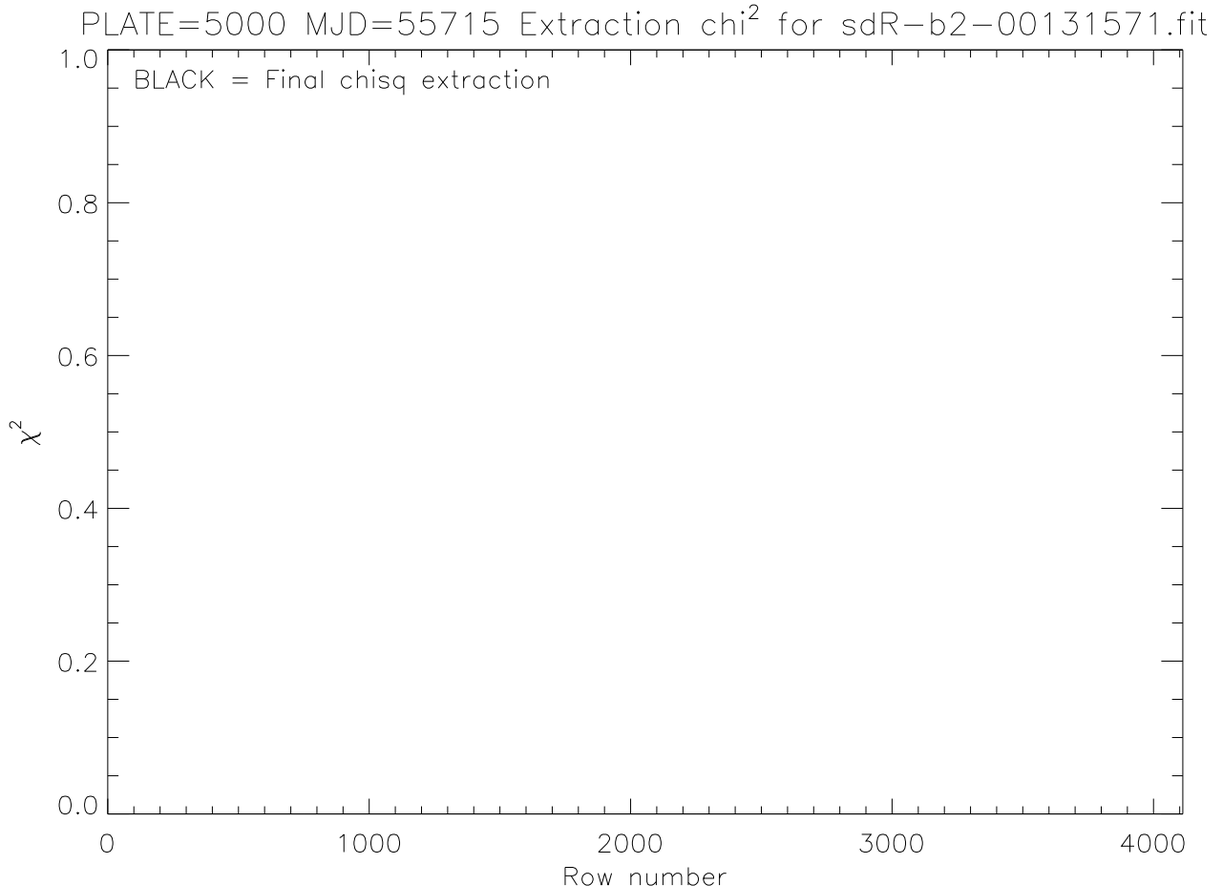


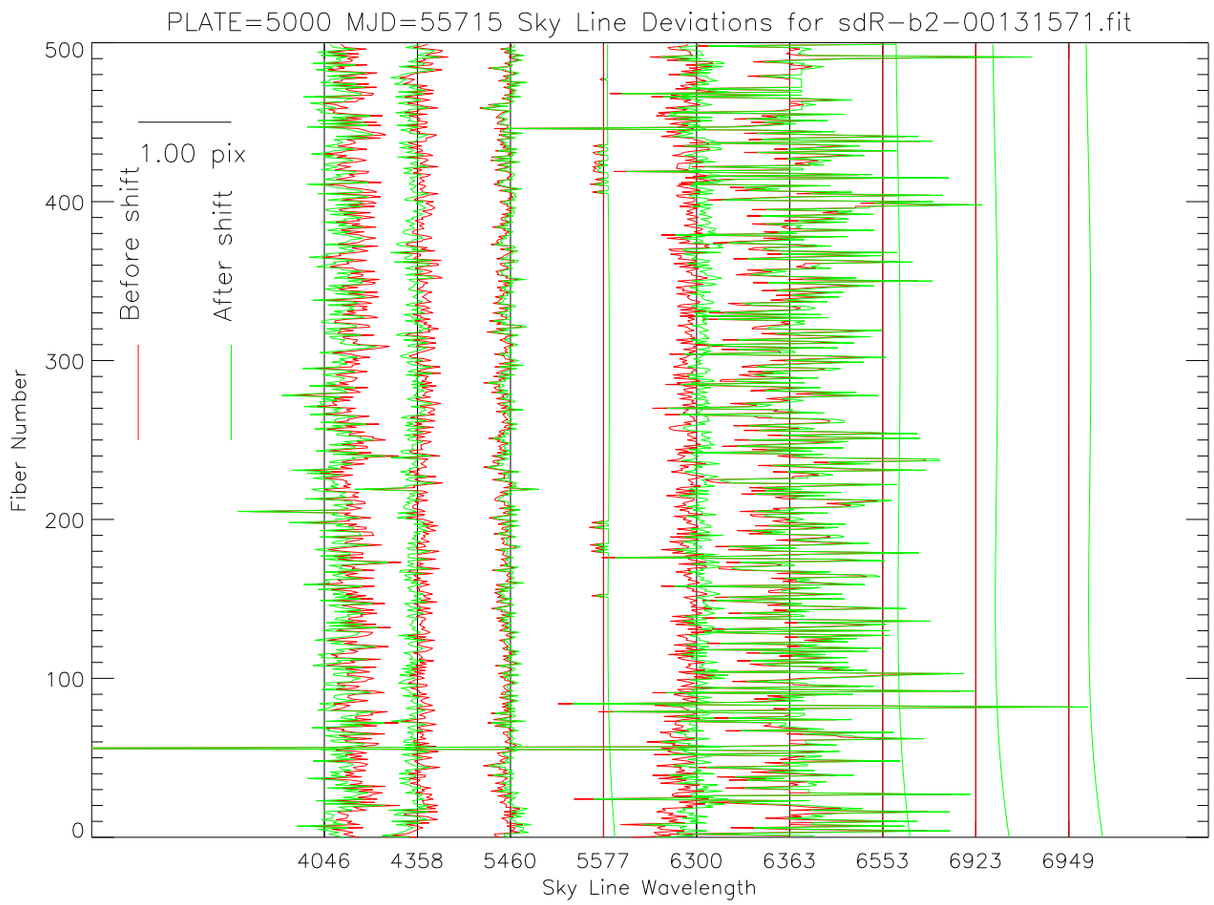

PLATE=5000 MJD=55715 flat extraction chi^2 for sdR-b2-00131570.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number

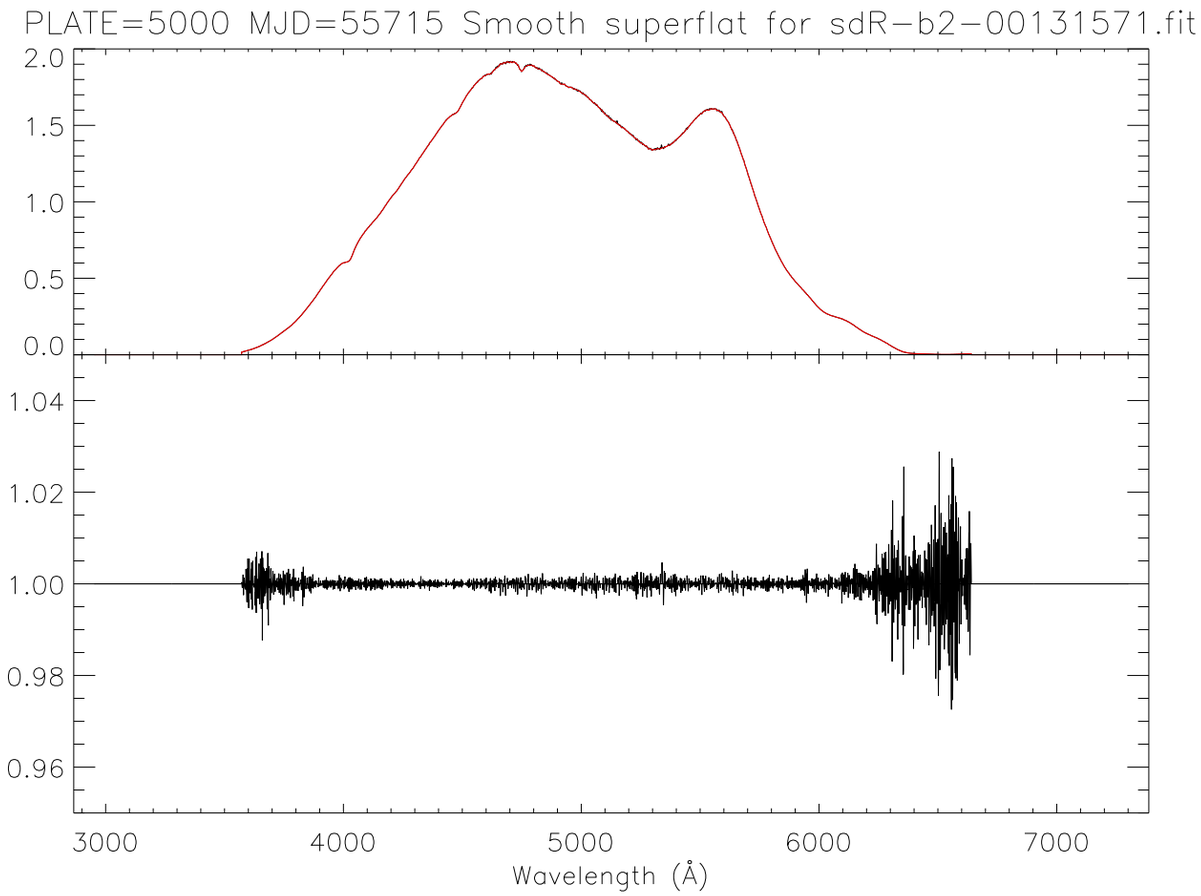

PLATE=5000 MJD=55715 Superflat sdR-b2-00131570.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
0.0
0.5
1.0
1.5
2.0
4000
4500
5000
5500
6000
6500
λ [A]

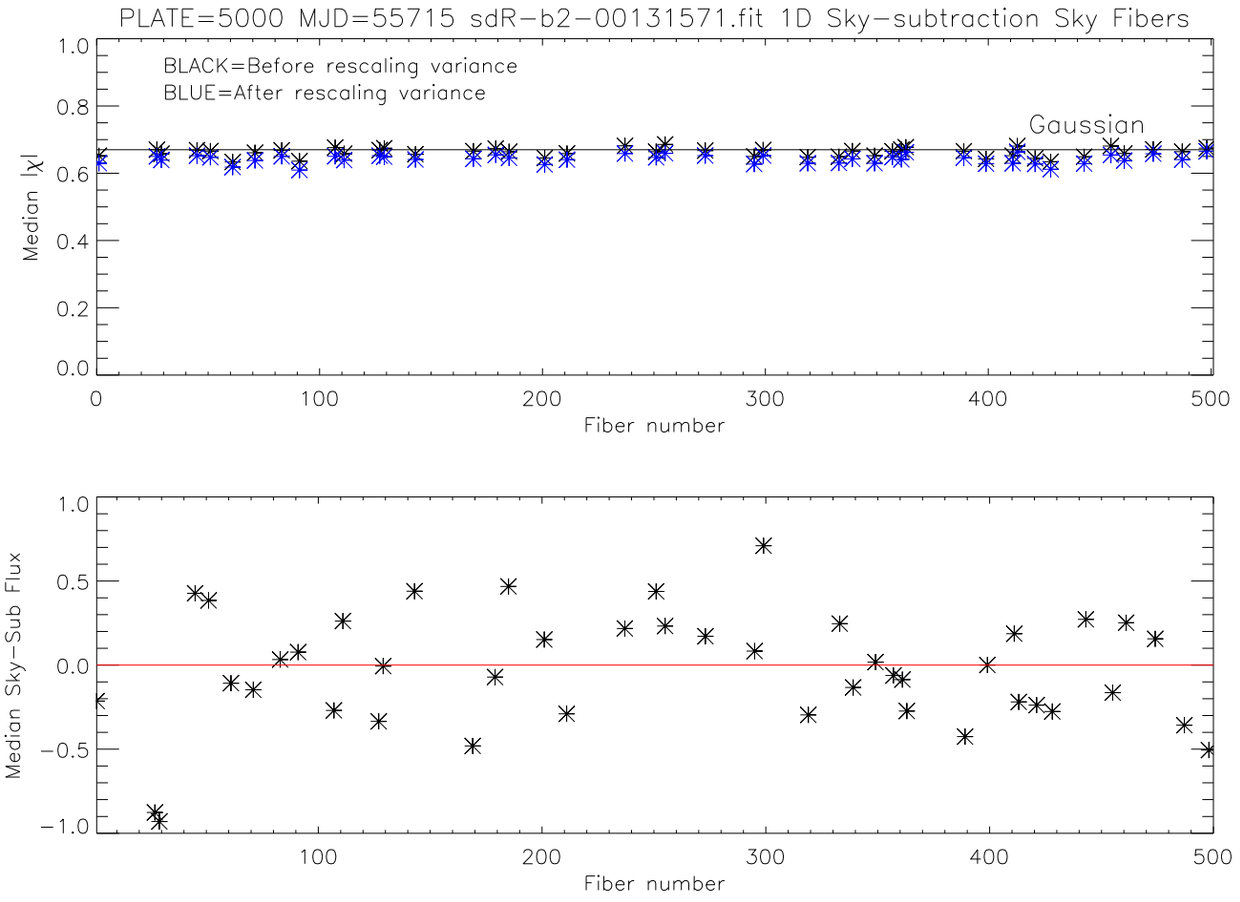

PLATE=5000 MJD=55715 Arcline Fit for sdR-b2-00131569.fit
Fiber Number
500
400
300
200
100
0
3000
4000
5000
6000
7000
λ [A] + 300 * Deviation
Ncoeff = 6
Deviation [pix]
0.15
0.10
0.05
−0.00
−0.05
−0.10
−0.15
λ [A]
Sat May 28 05:00:40 2016

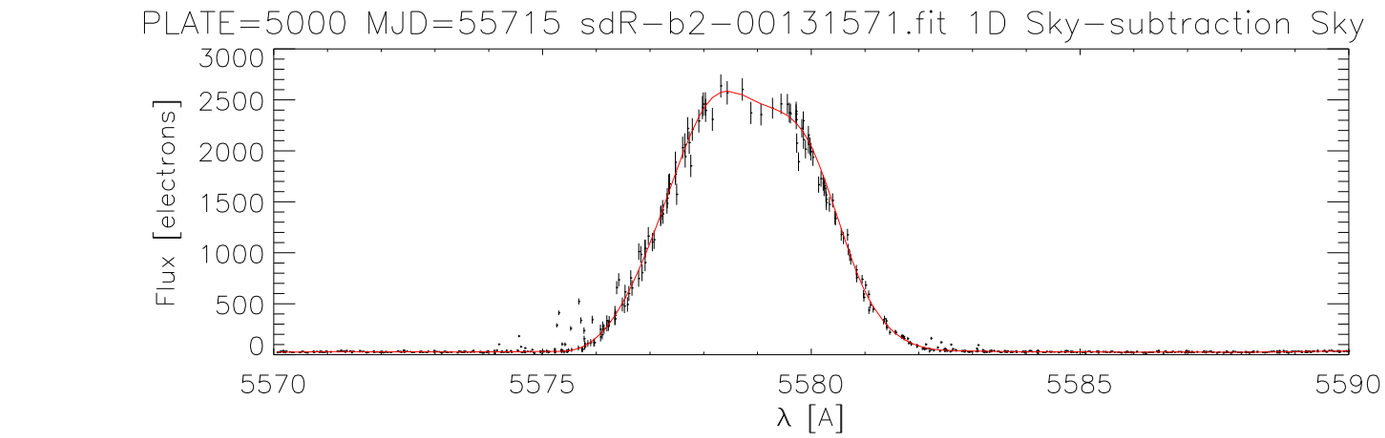

PLATE=5000 MJD=55715 Fiber−Flats for sdR−b2−00131570.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = 0.387
Max value = 2.086
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sat May 28 05:00:56 2016

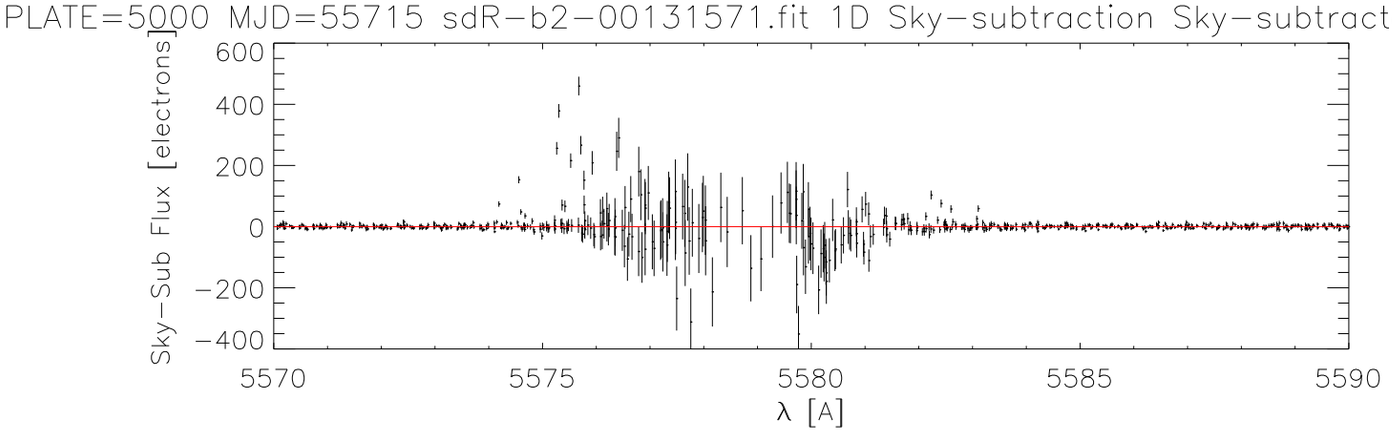

PLATE=5000 MJD=55715 Extraction chi^2 for sdR−b2−00131571.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=5000 MJD=55715 Sky Line Deviations for sdR-b2-00131571.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

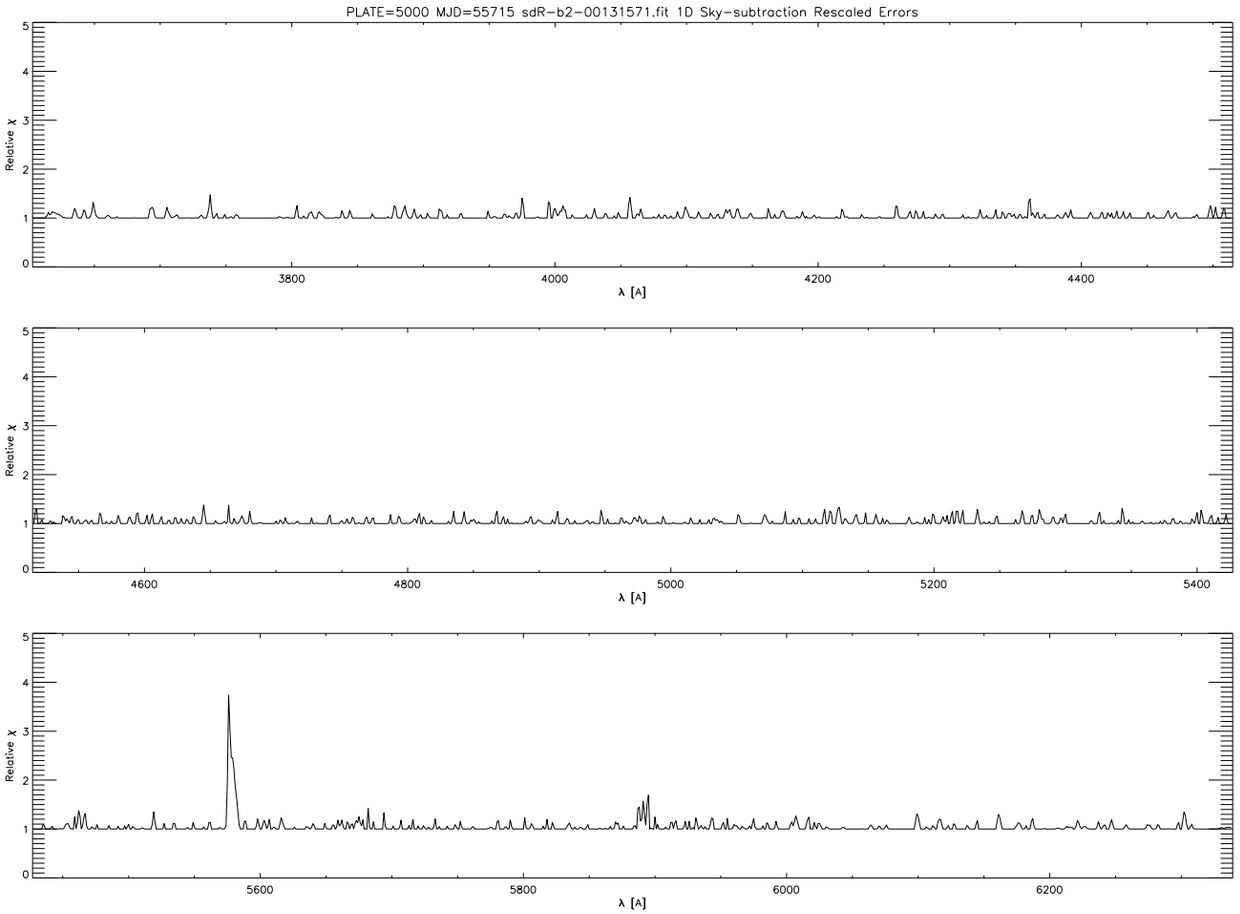

PLATE=5000 MJD=55715 Smooth superflat for sdR-b2-00131571.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

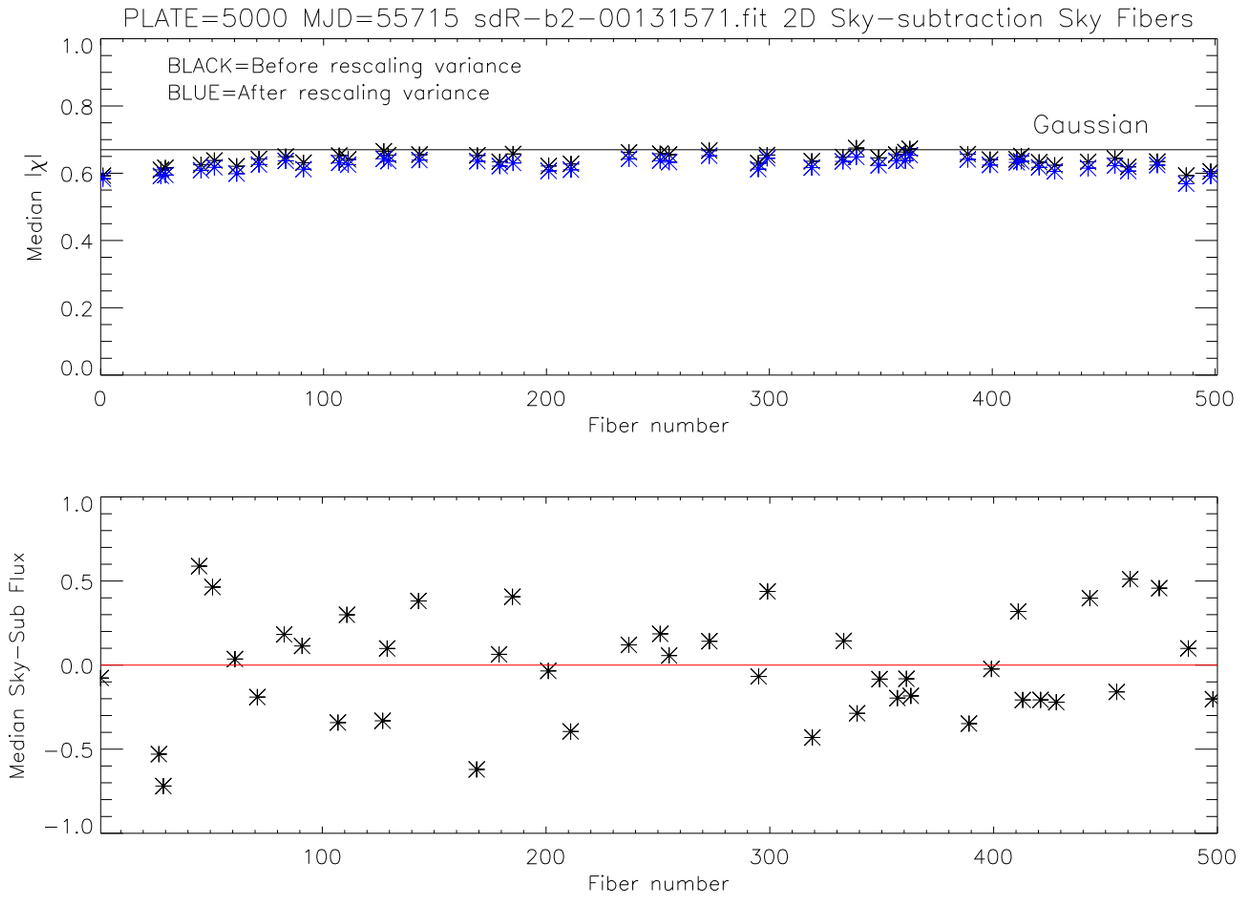

PLATE=5000 MJD=55715 sdR-b2-00131571.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

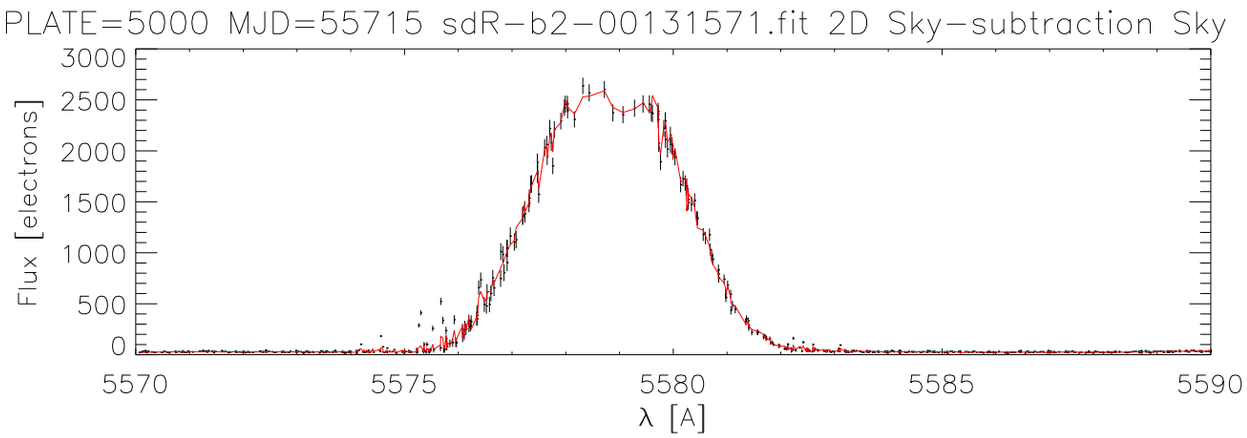

PLATE=5000 MJD=55715 sdR-b2-00131571.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

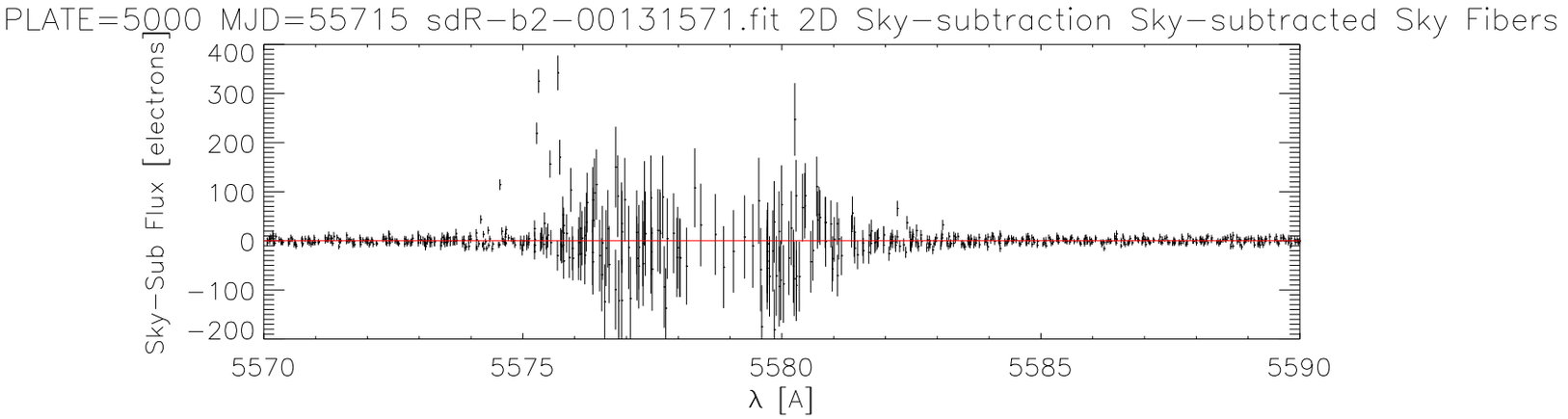

PLATE=5000 MJD=55715 sdR-b2-00131571.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 44

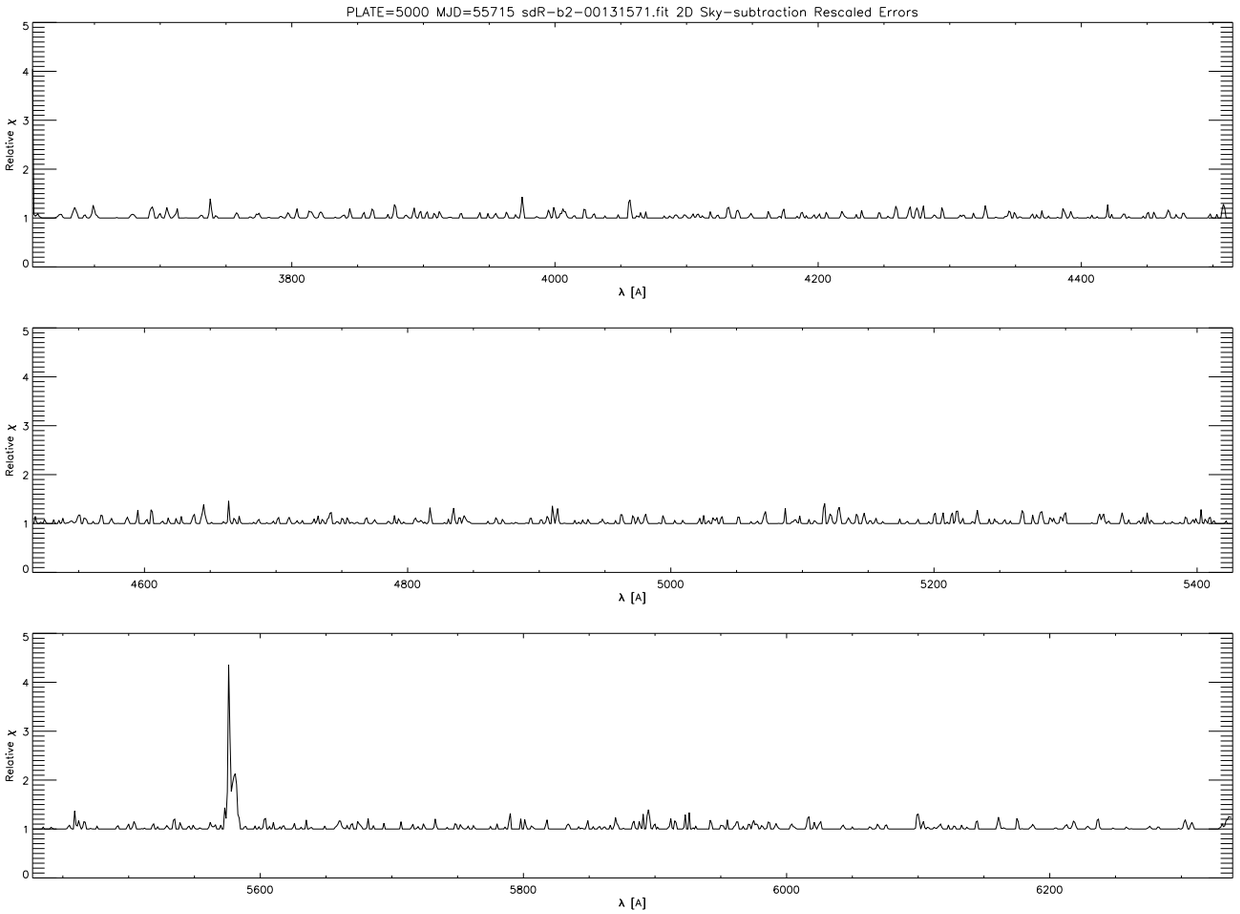


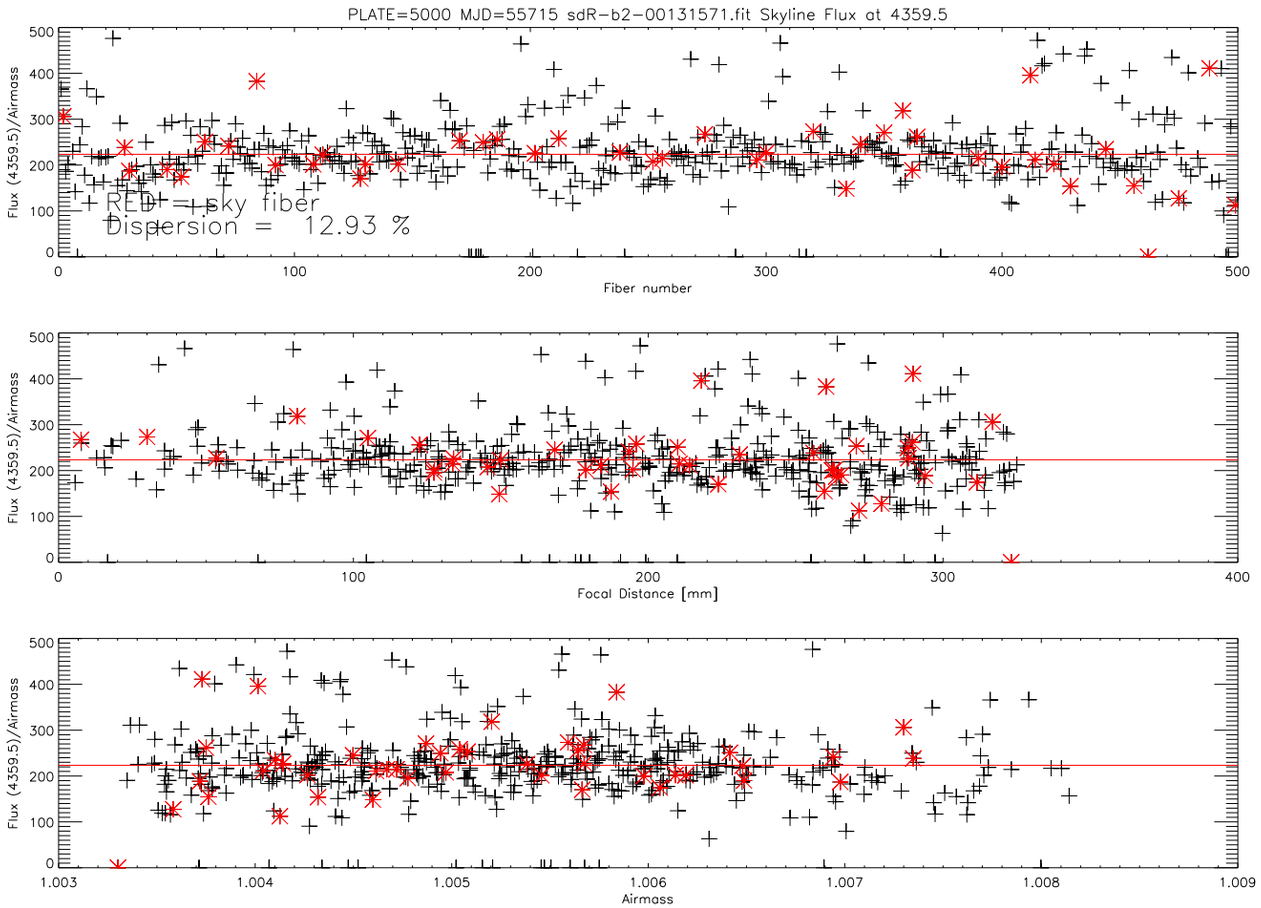

PLATE=5000 MJD=55715 sdR-b2-00131571.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

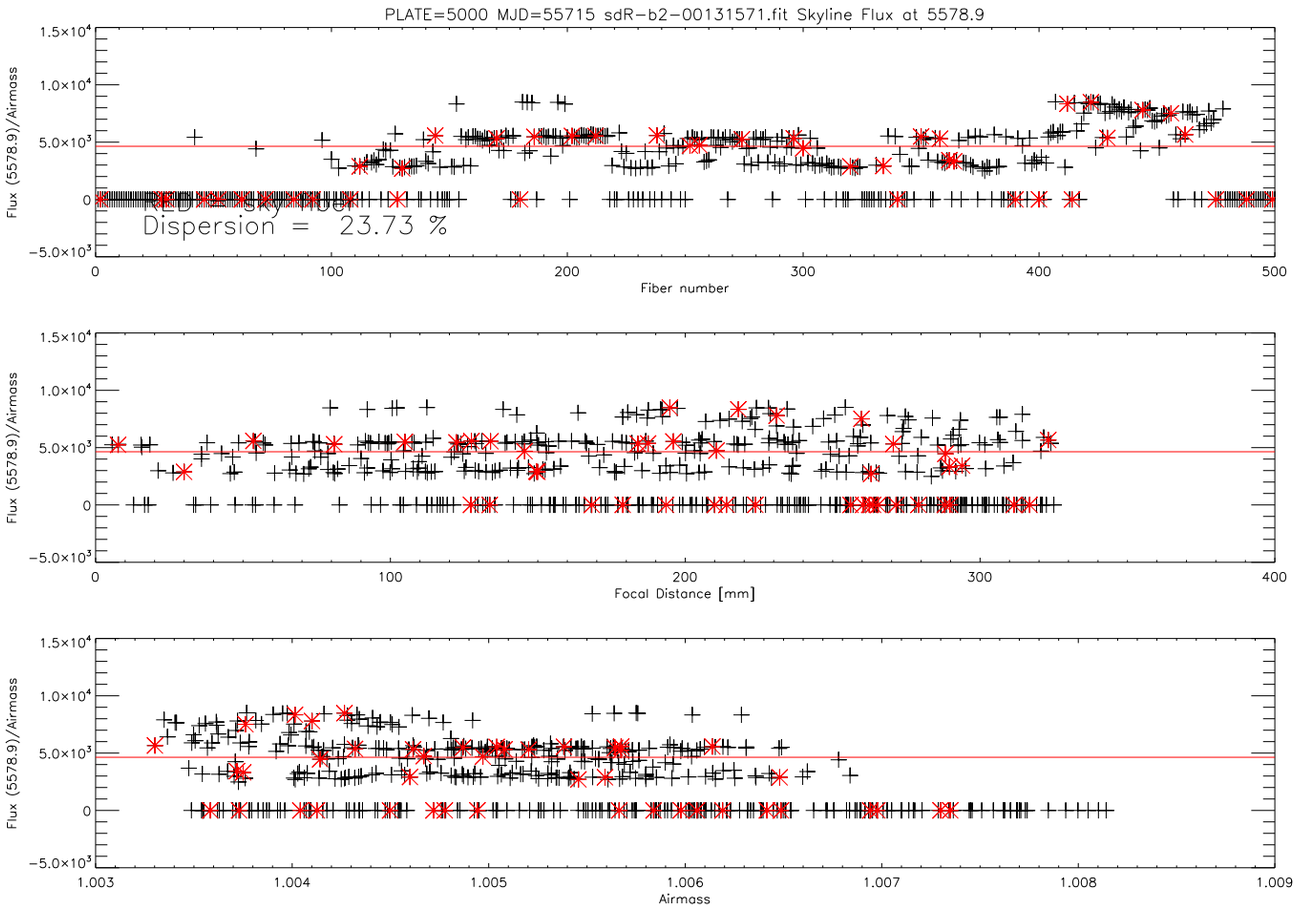

PLATE=5000 MJD=55715 sdR-b2-00131571.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

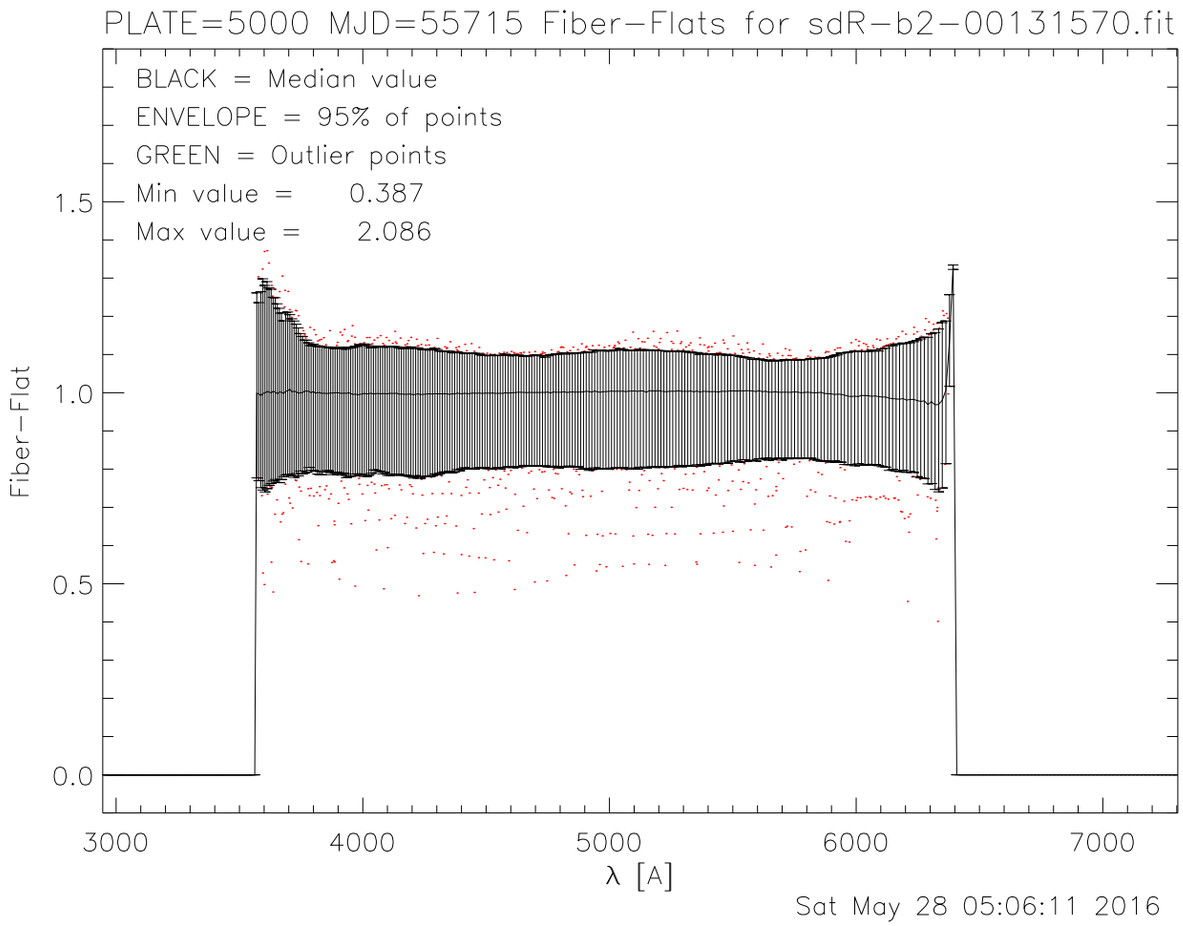

PLATE=5000 MJD=55715 sdR-b2-00131571.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
400
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

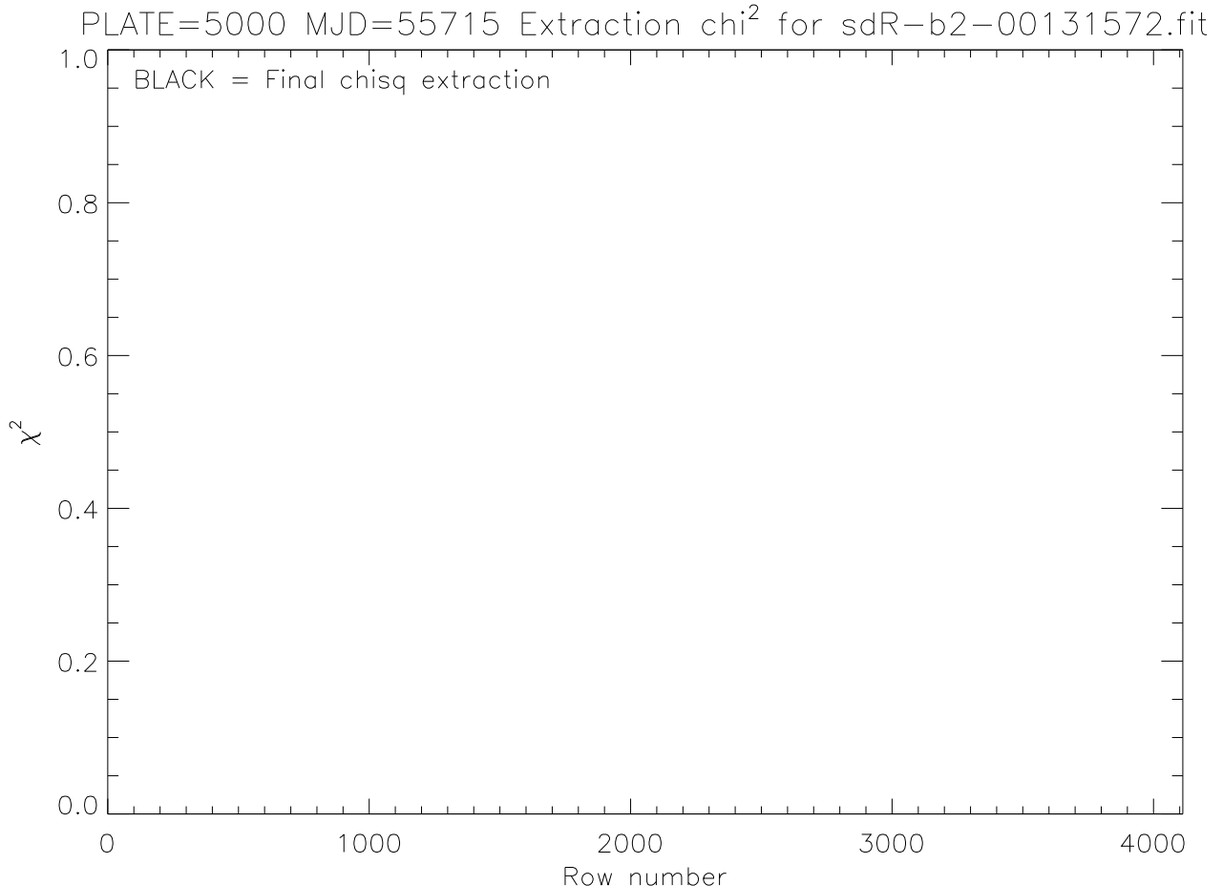
Number of sky fibers = 44

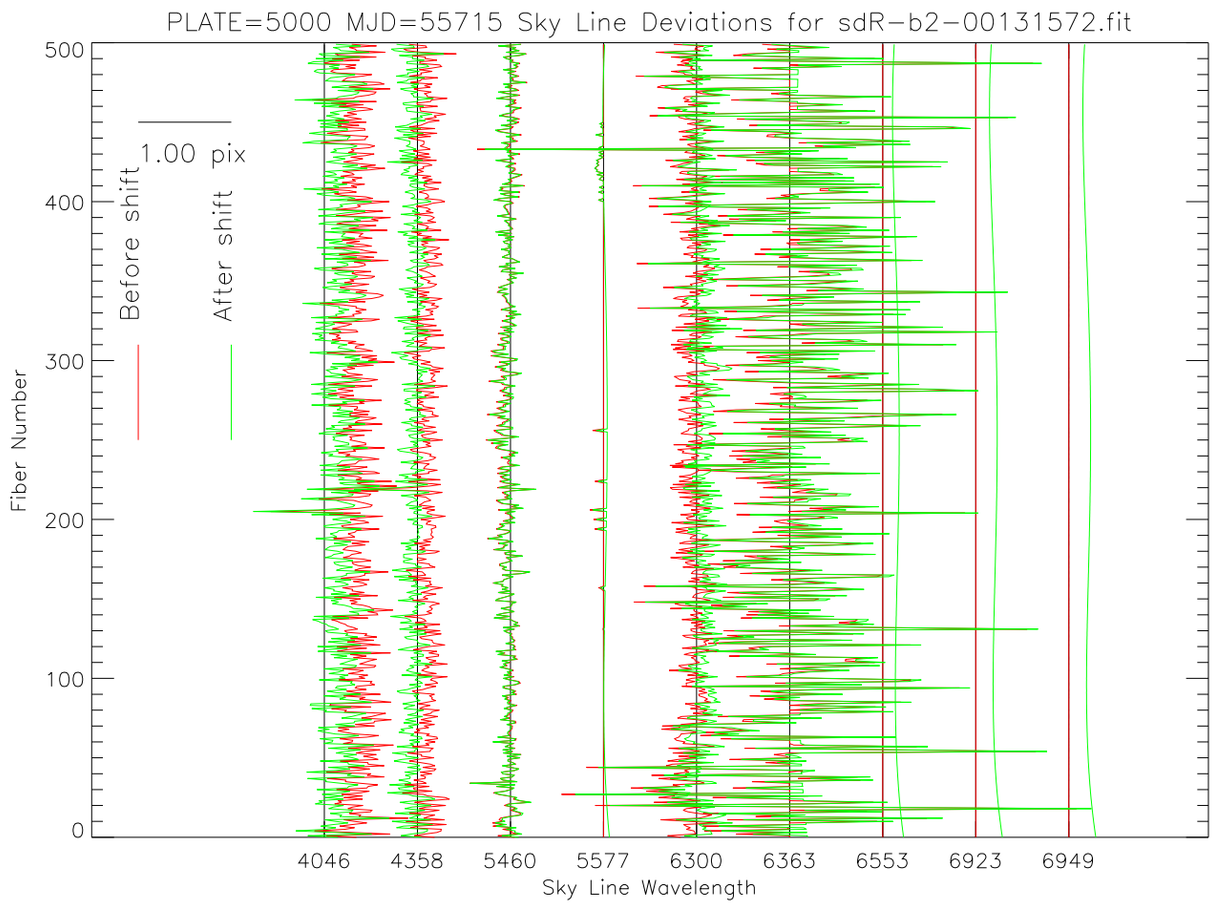


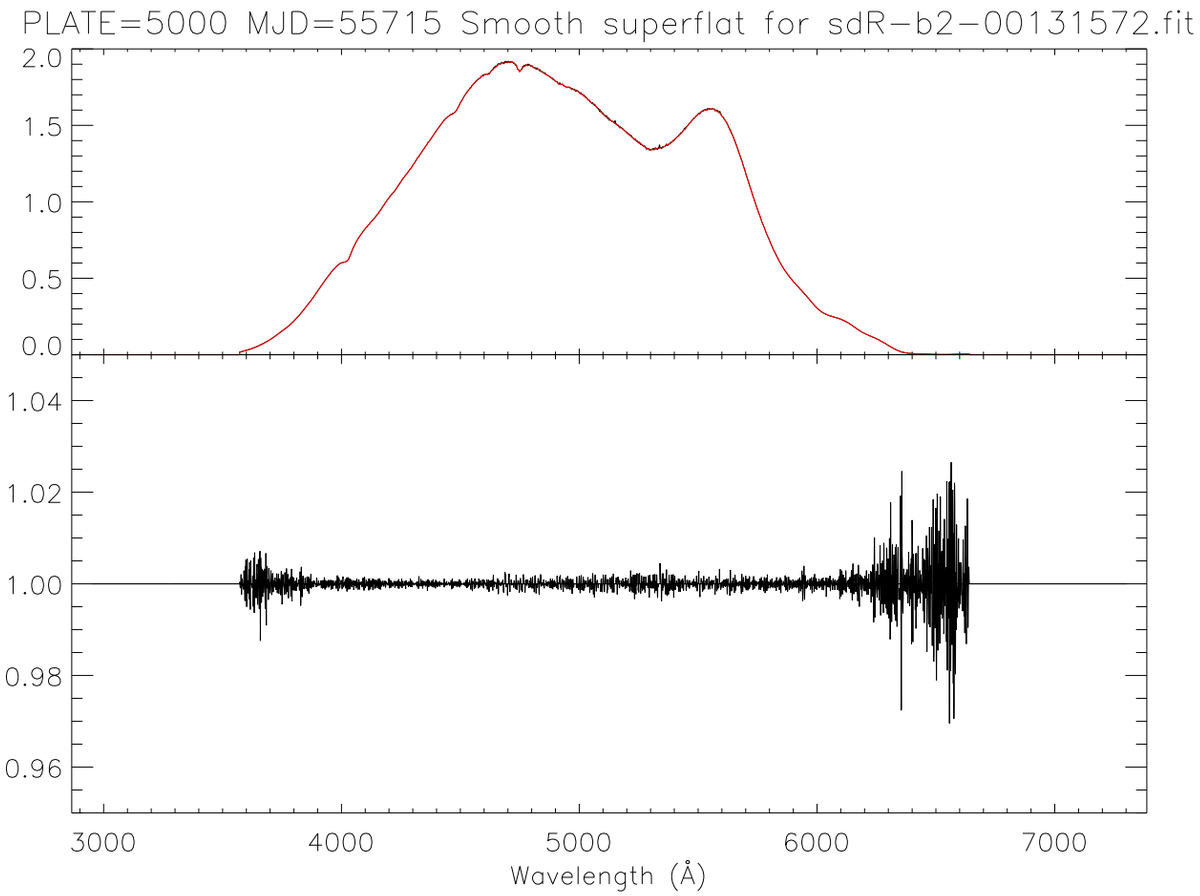

PLATE=5000 MJD=55715 sdR-b2-00131571.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 12.93 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

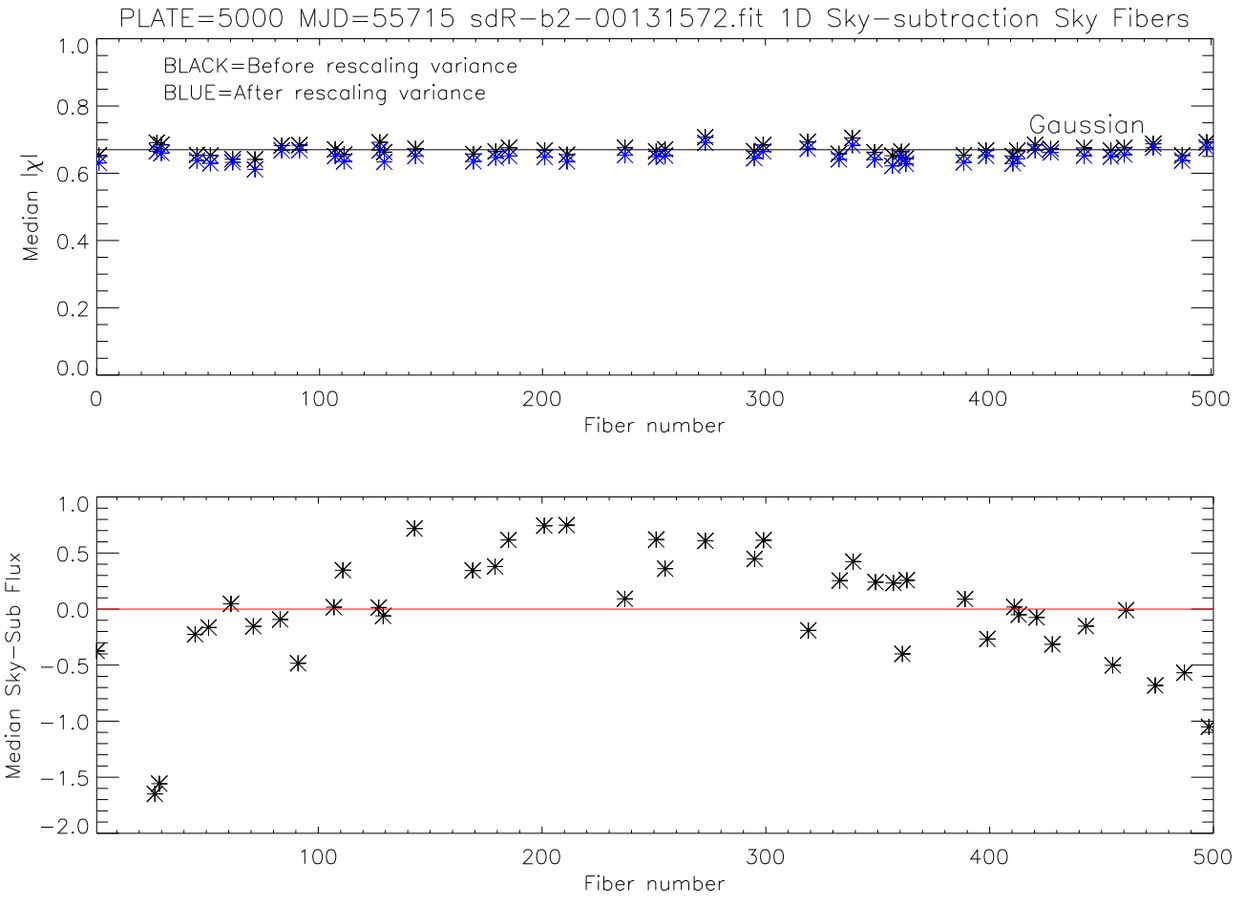

PLATE=5000 MJD=55715 sdR-b2-00131571.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
Red sky fiber
Dispersion = 23.73 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

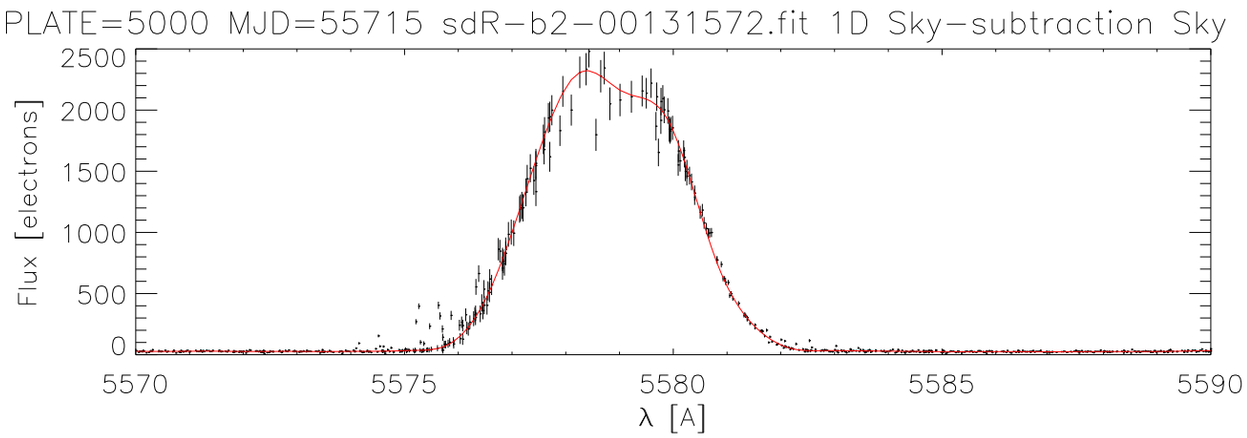

PLATE=5000 MJD=55715 Fiber−Flats for sdR−b2−00131570.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = 0.387
Max value = 2.086
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sat May 28 05:06:11 2016

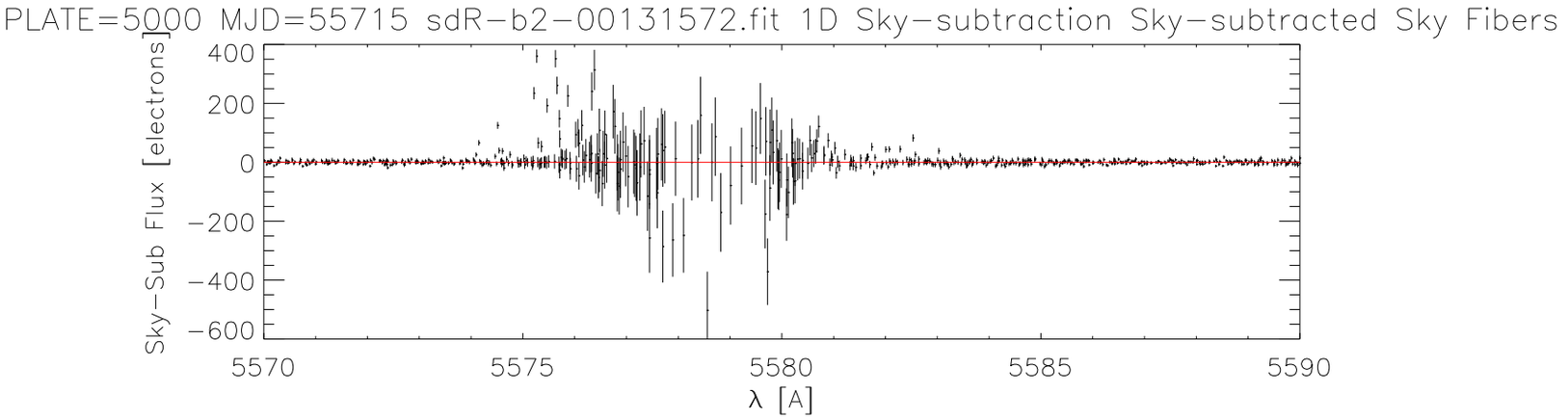

PLATE=5000 MJD=55715 Extraction chi^2 for sdR-b2-00131572.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=5000 MJD=55715 Sky Line Deviations for sdR-b2-00131572.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

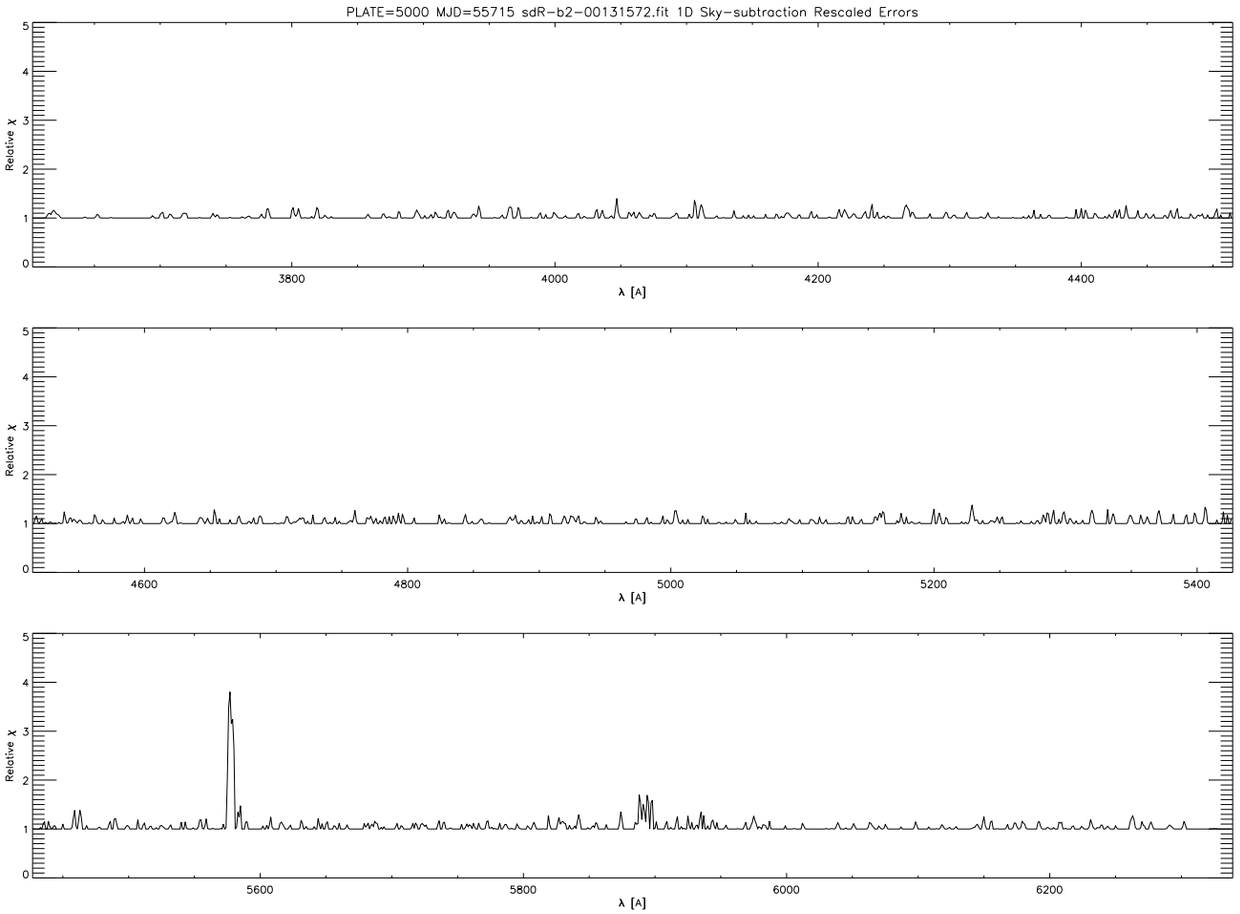

PLATE=5000 MJD=55715 Smooth superflat for sdR-b2-00131572.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

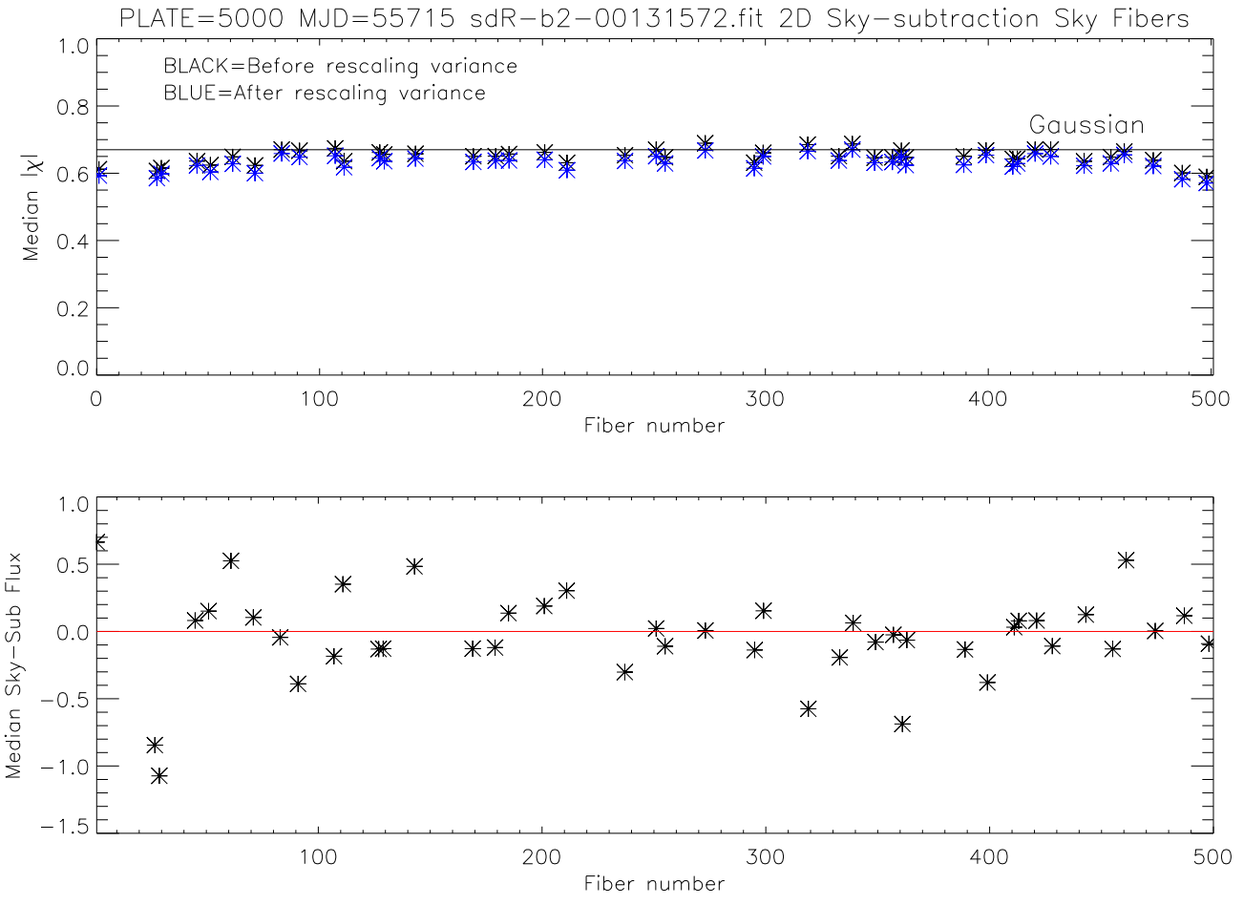

PLATE=5000 MJD=55715 sdR-b2-00131572.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

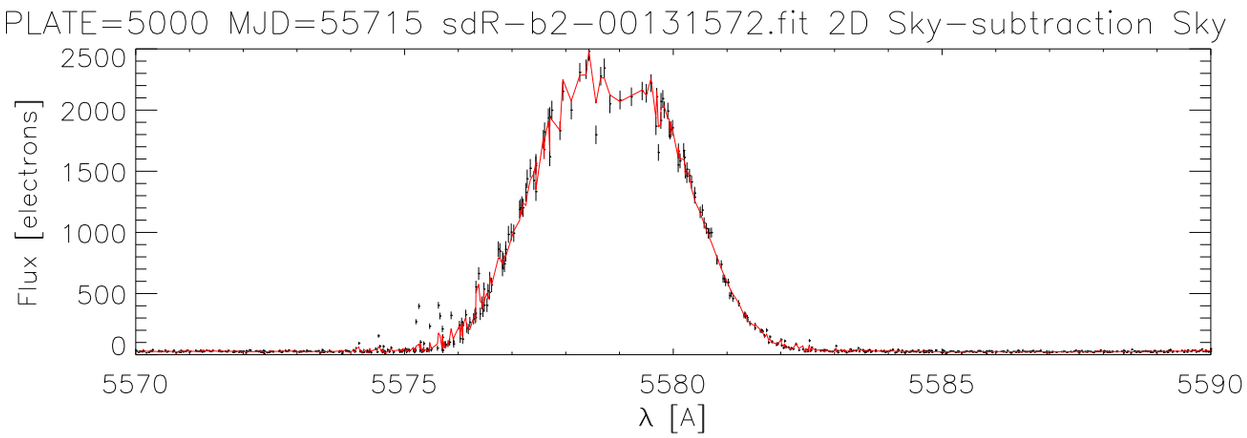

PLATE=5000 MJD=55715 sdR-b2-00131572.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

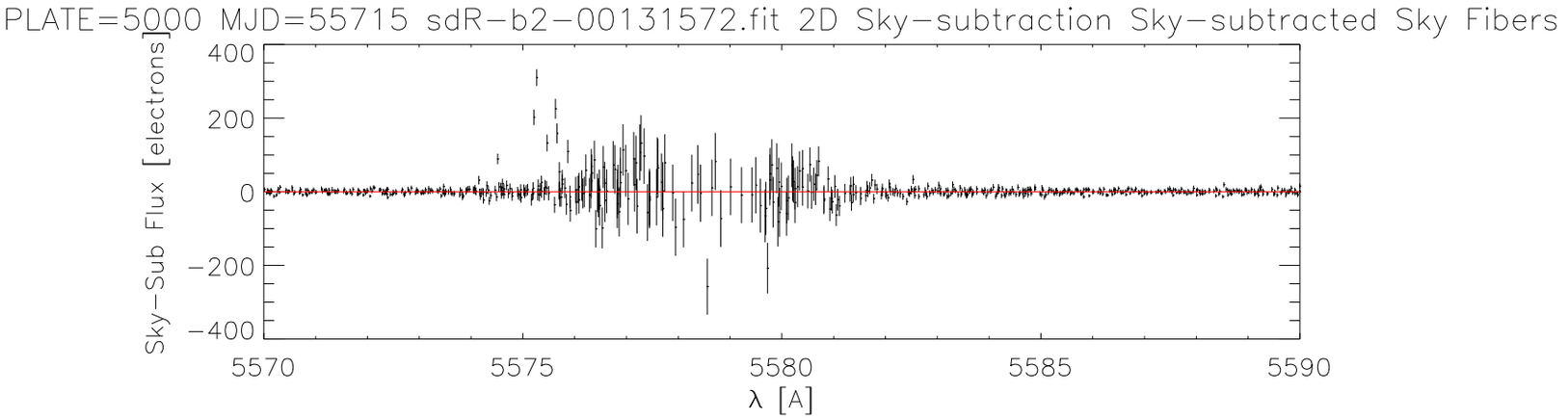

PLATE=5000 MJD=55715 sdR-b2-00131572.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 44

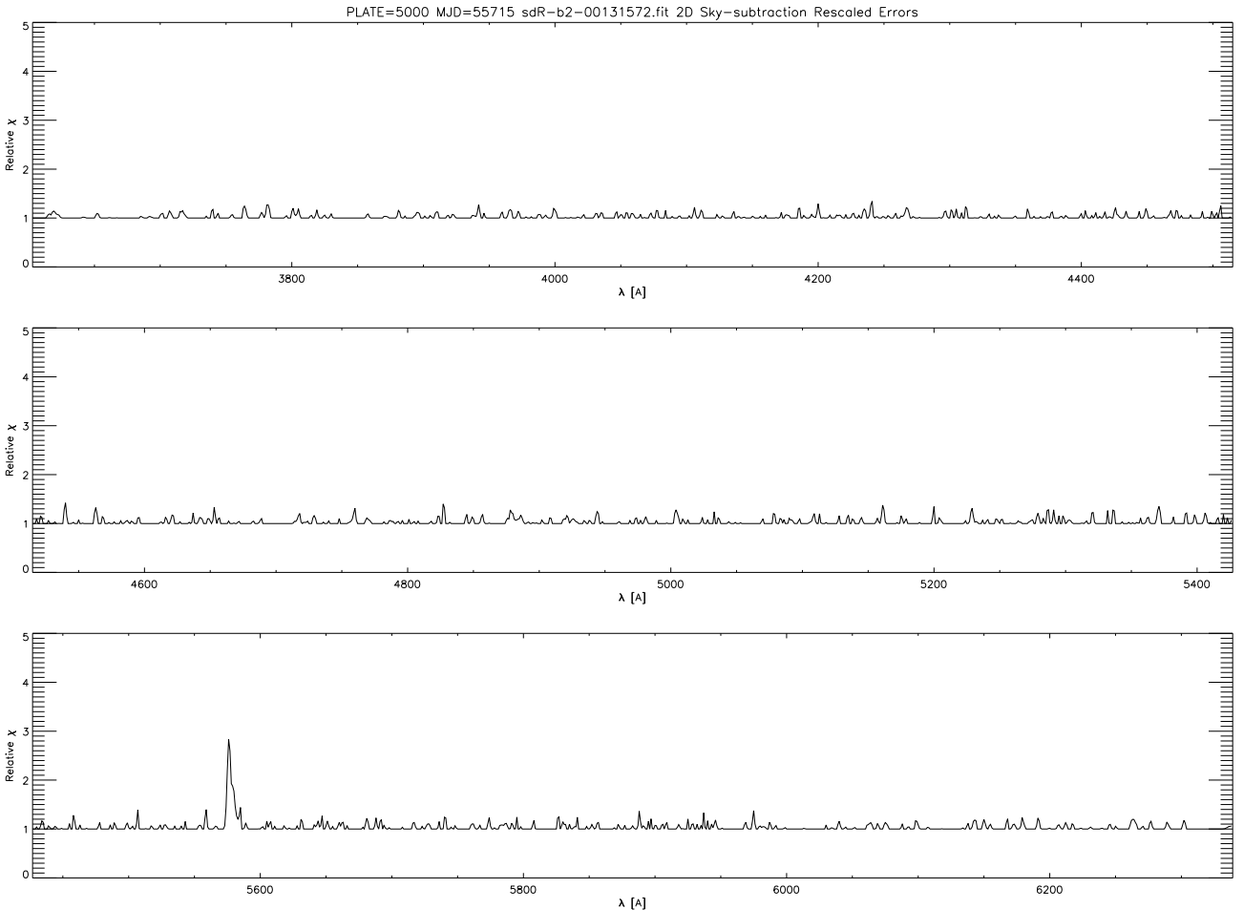


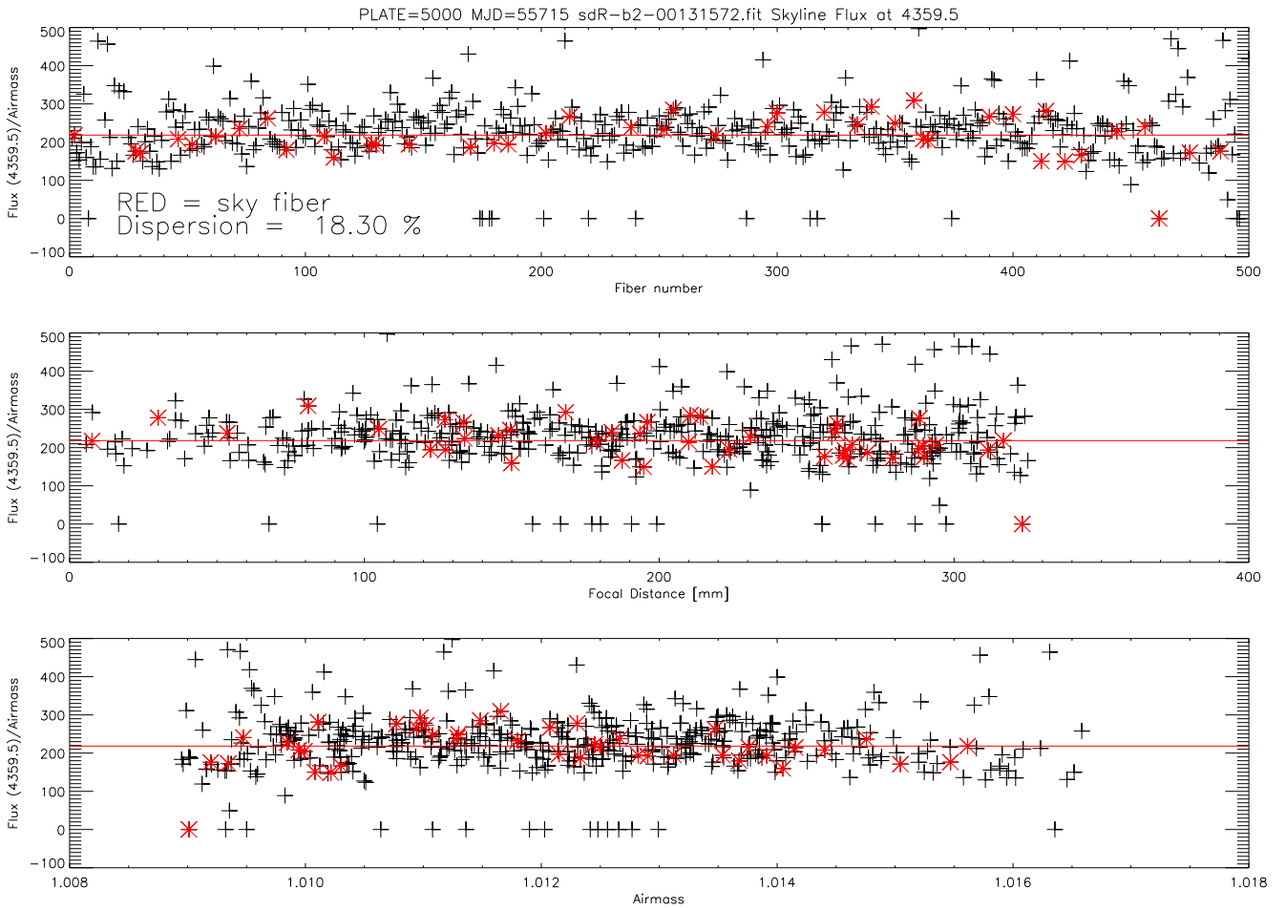

PLATE=5000 MJD=55715 sdR-b2-00131572.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

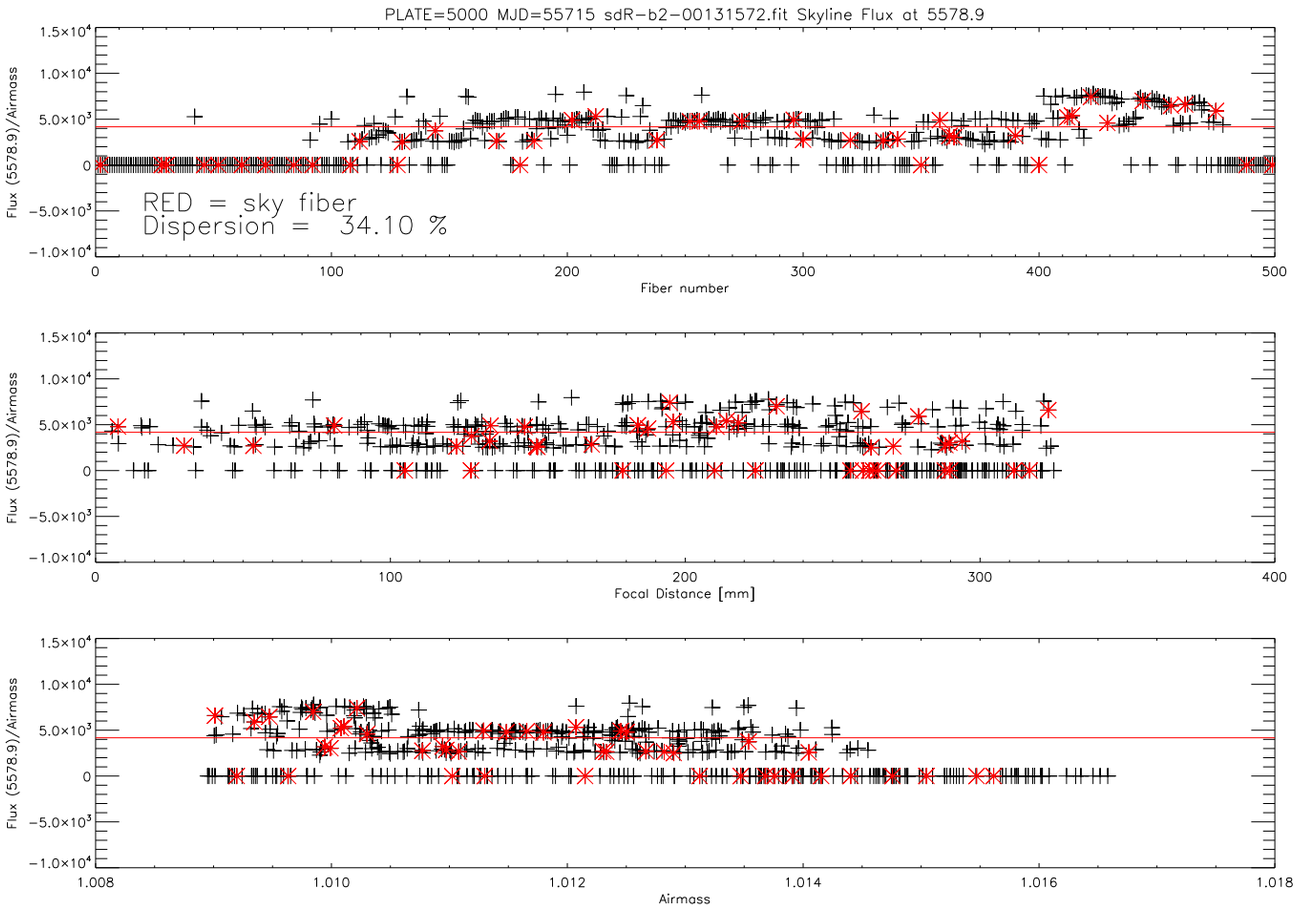

PLATE=5000 MJD=55715 sdR-b2-00131572.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

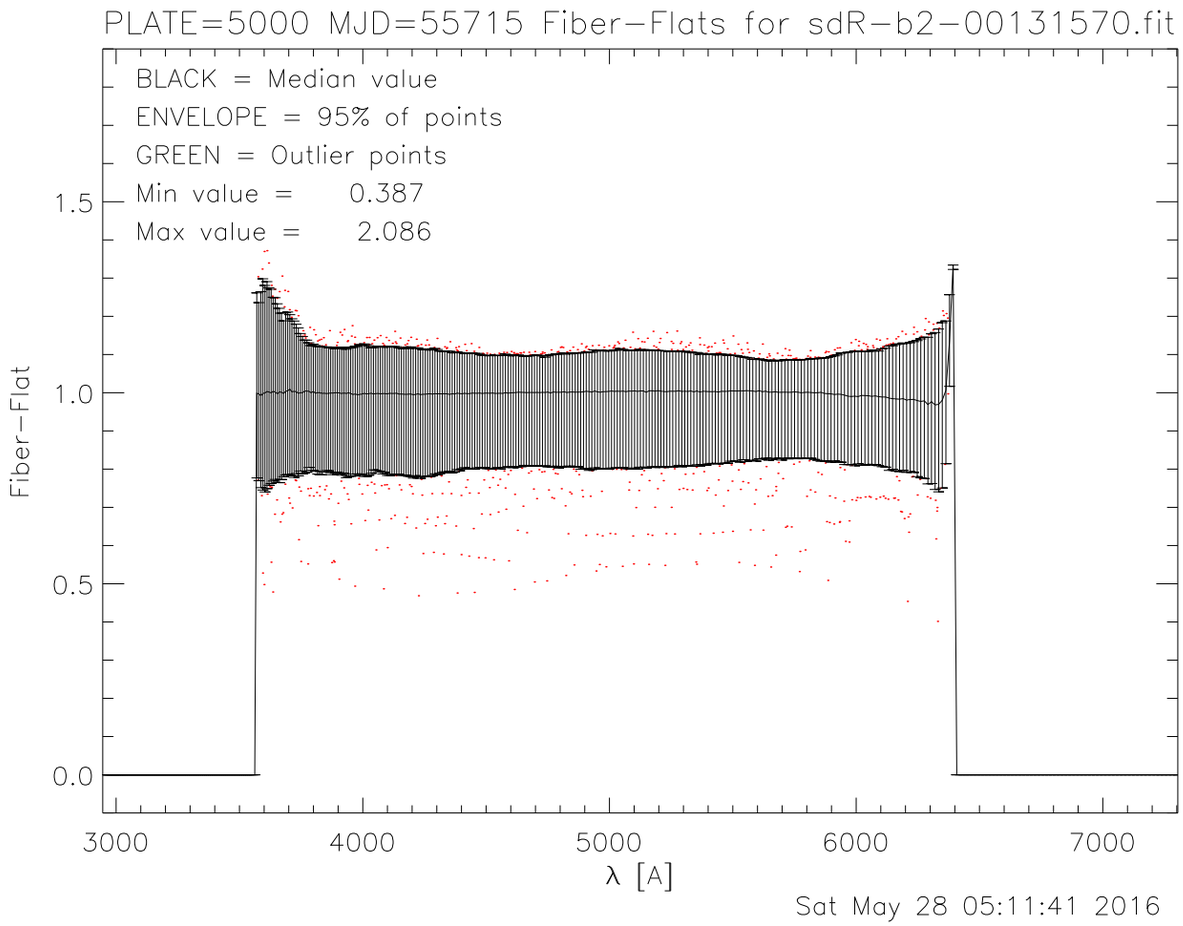

PLATE=5000 MJD=55715 sdR-b2-00131572.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

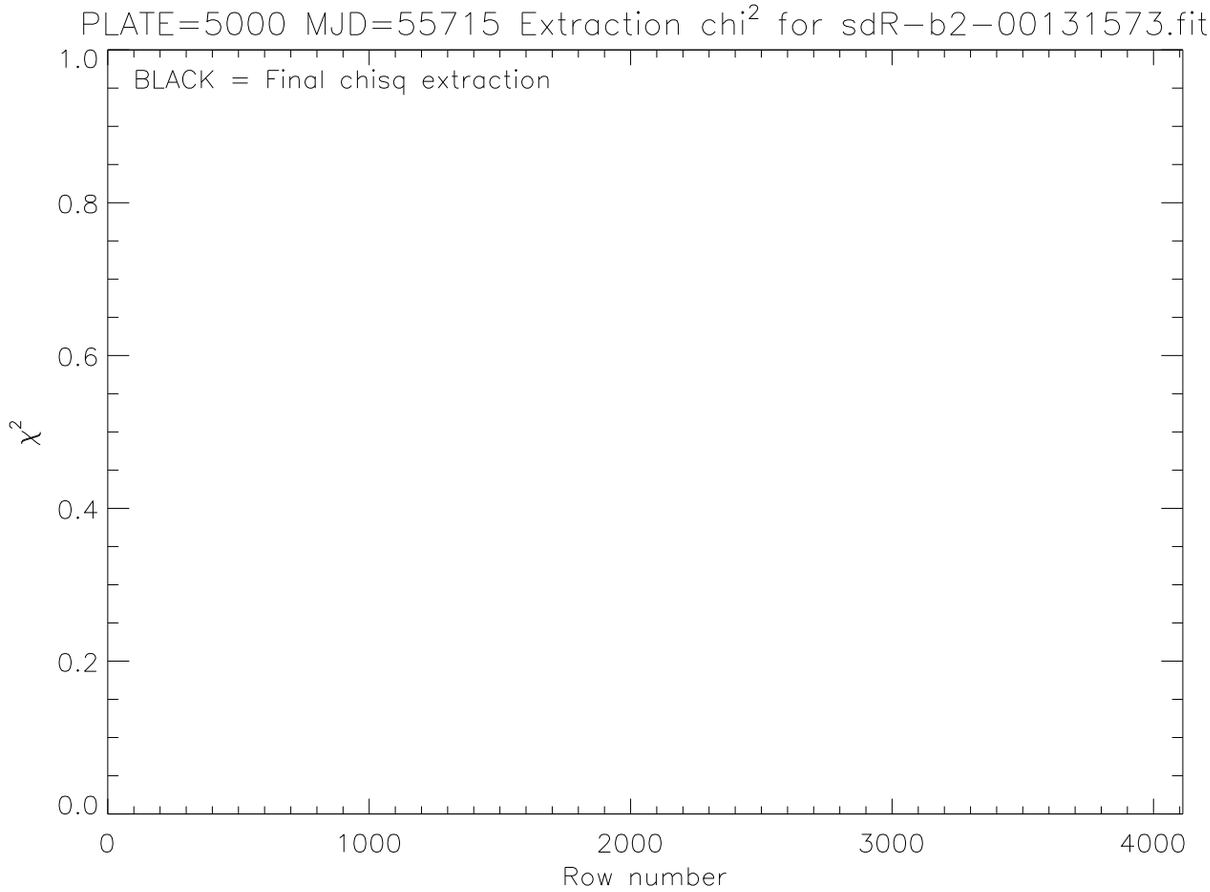
Number of sky fibers = 44

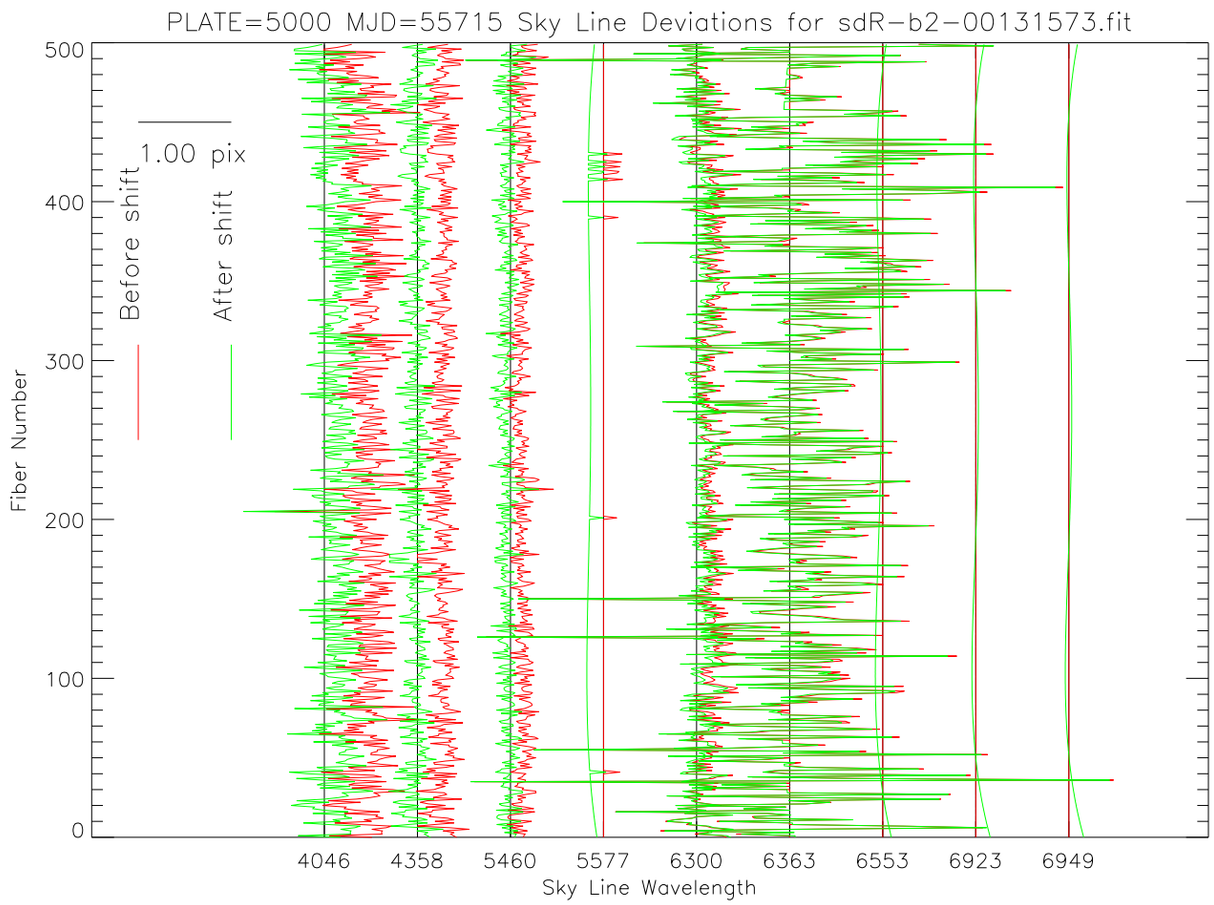


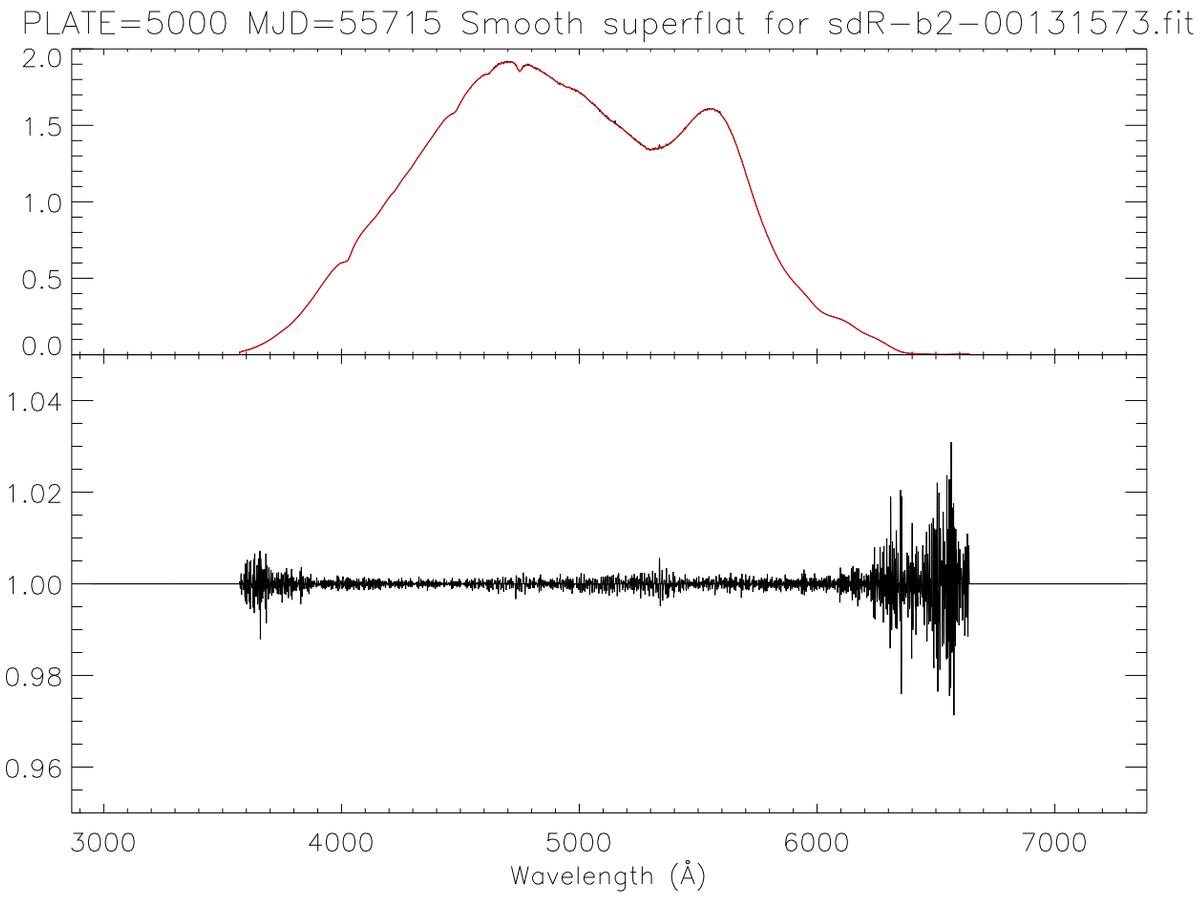

PLATE=5000 MJD=55715 sdR-b2-00131572.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 18.30 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

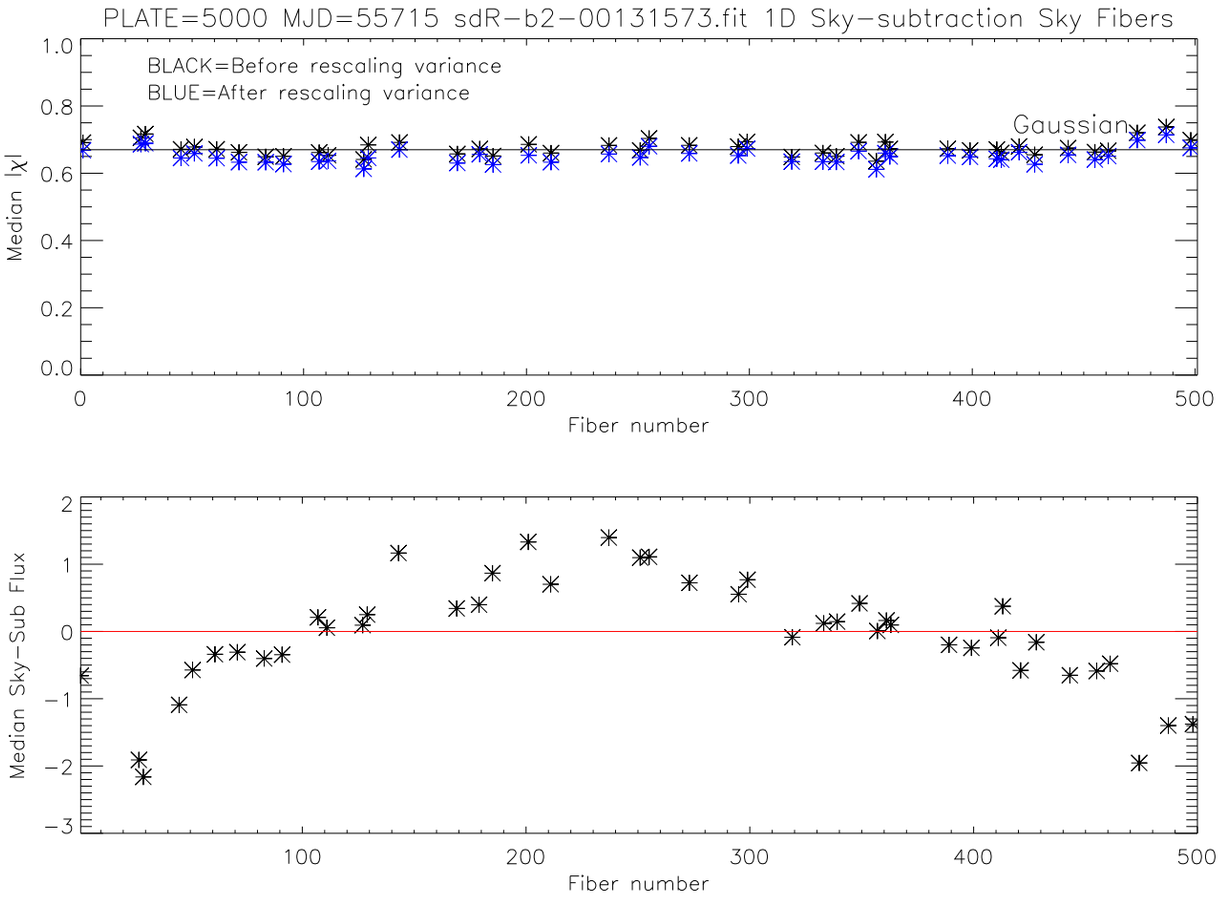

PLATE=5000 MJD=55715 sdR-b2-00131572.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 34.10 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

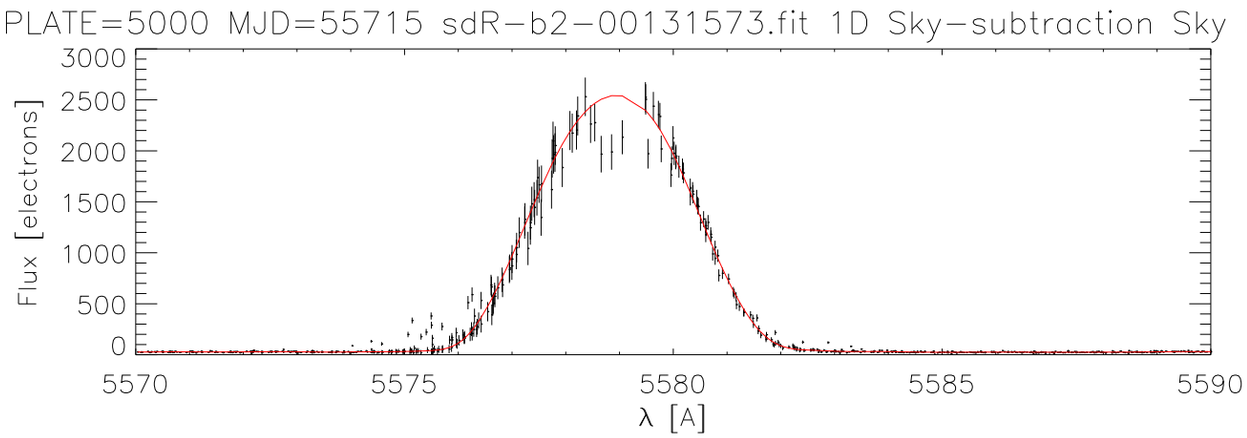

PLATE=5000 MJD=55715 Fiber−Flats for sdR−b2−00131570.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = 0.387
Max value = 2.086
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sat May 28 05:11:41 2016

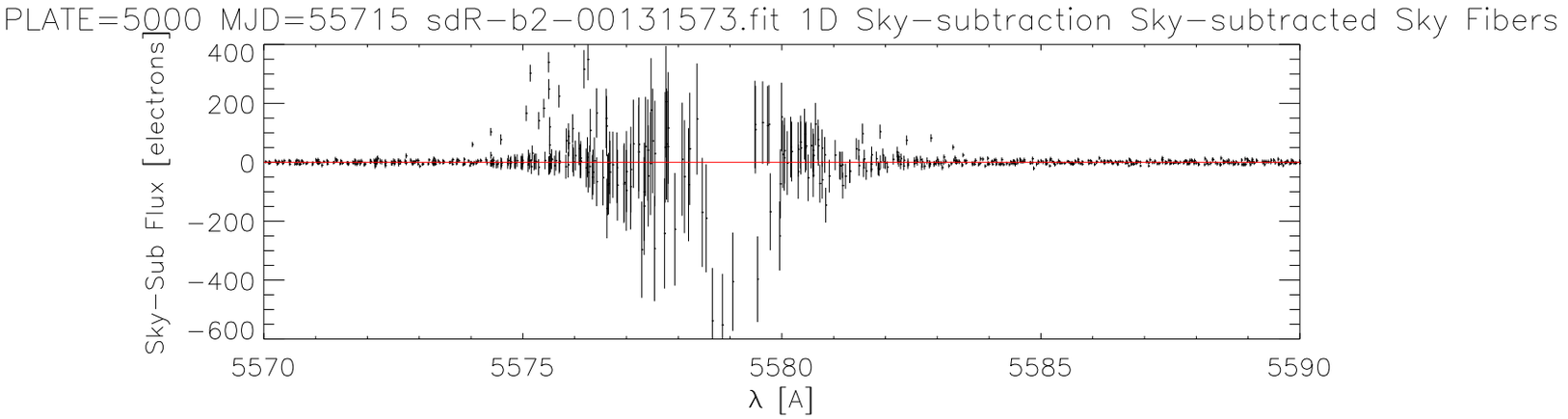

PLATE=5000 MJD=55715 Extraction chi^2 for sdR-b2-00131573.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number


PLATE=5000 MJD=55715 Sky Line Deviations for sdR-b2-00131573.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

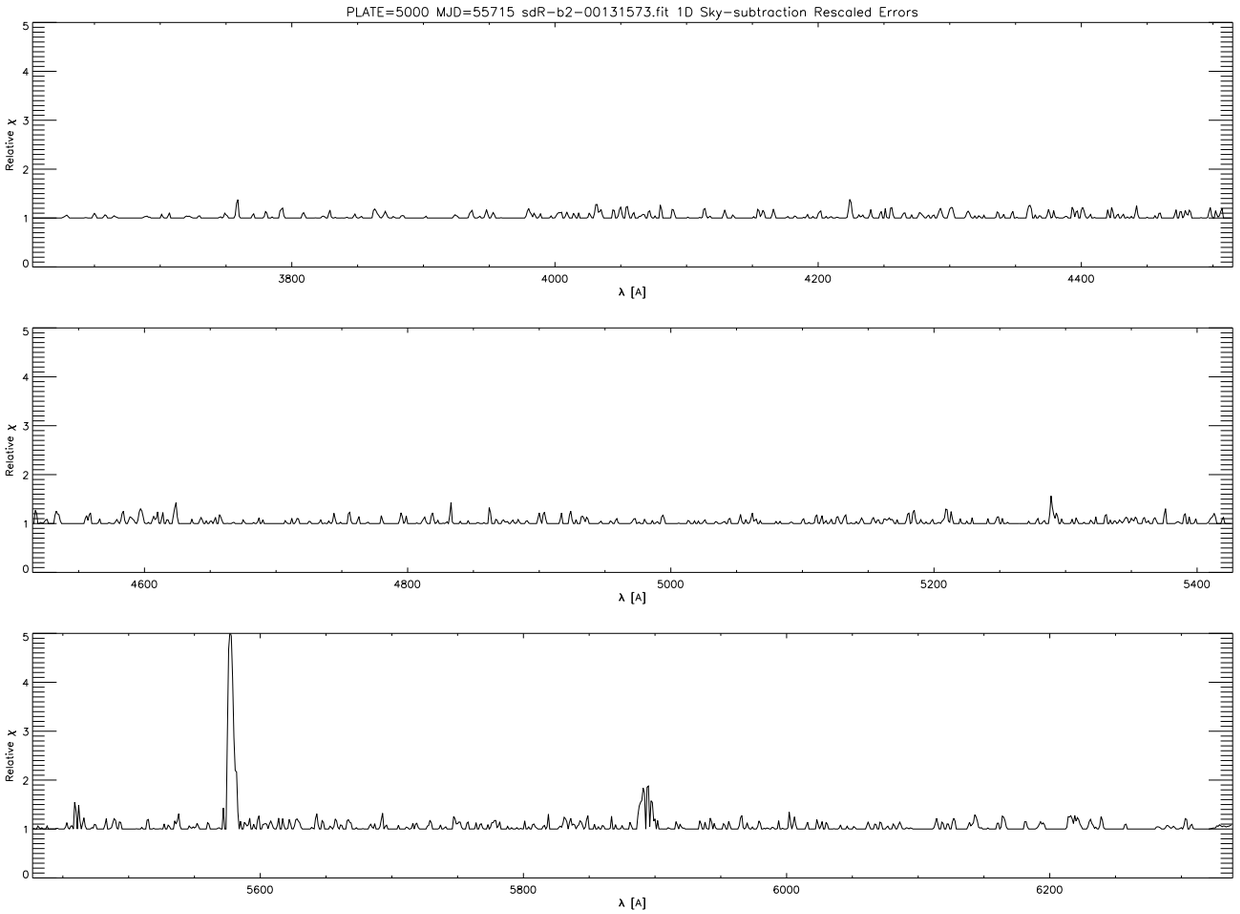

PLATE=5000 MJD=55715 Smooth superflat for sdR-b2-00131573.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

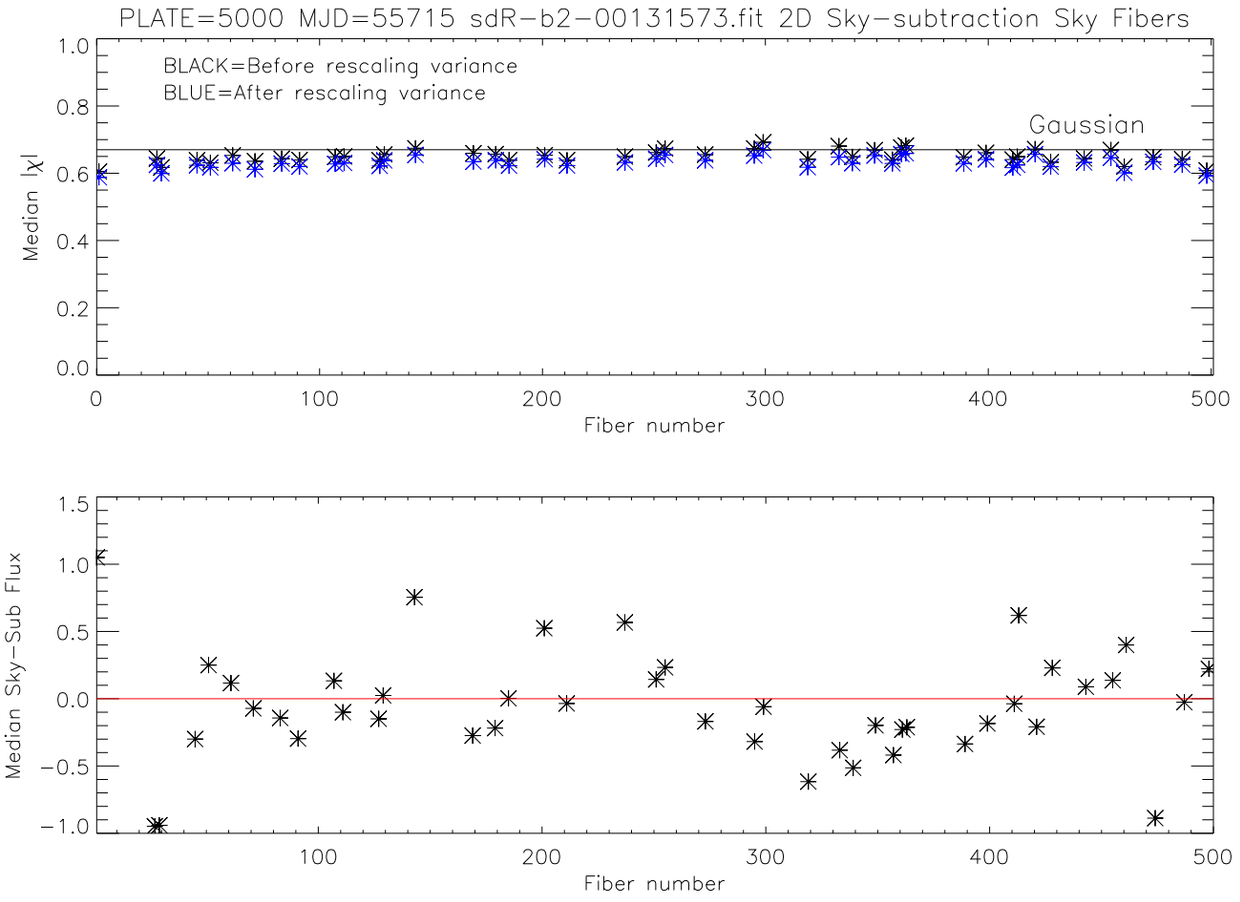

PLATE=5000 MJD=55715 sdR-b2-00131573.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number


PLATE=5000 MJD=55715 sdR-b2-00131573.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

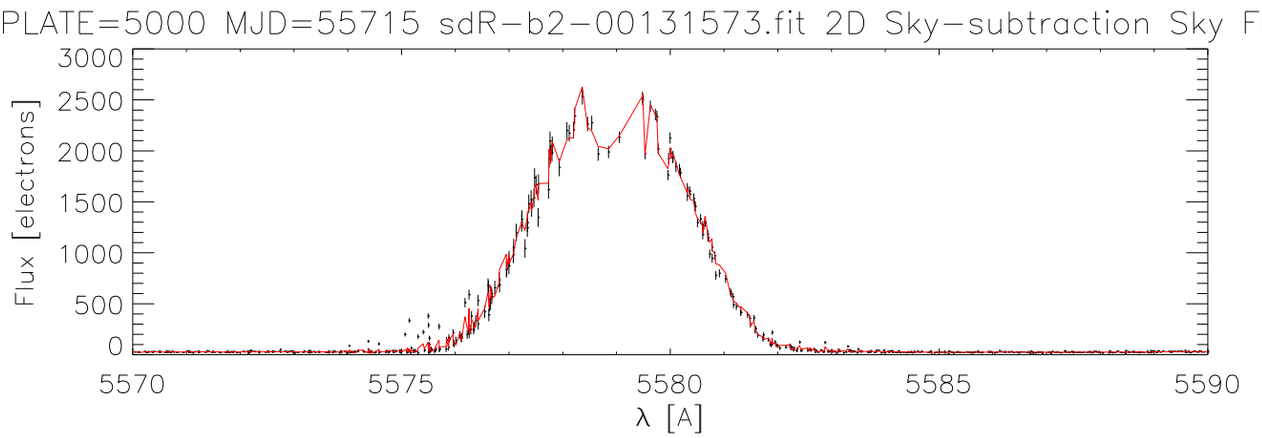

PLATE=5000 MJD=55715 sdR-b2-00131573.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

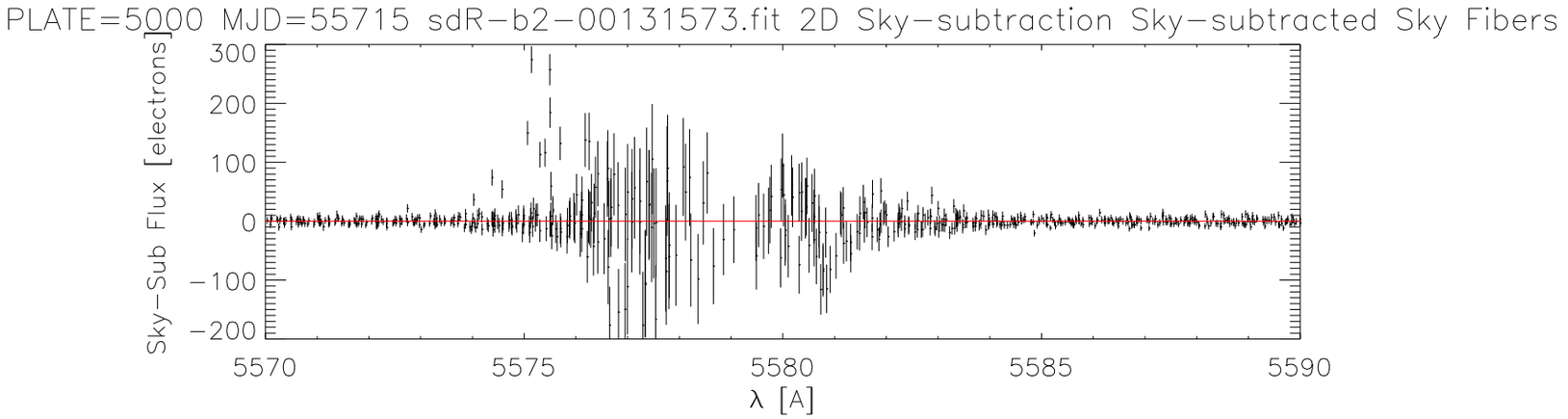
Number of sky fibers = 44



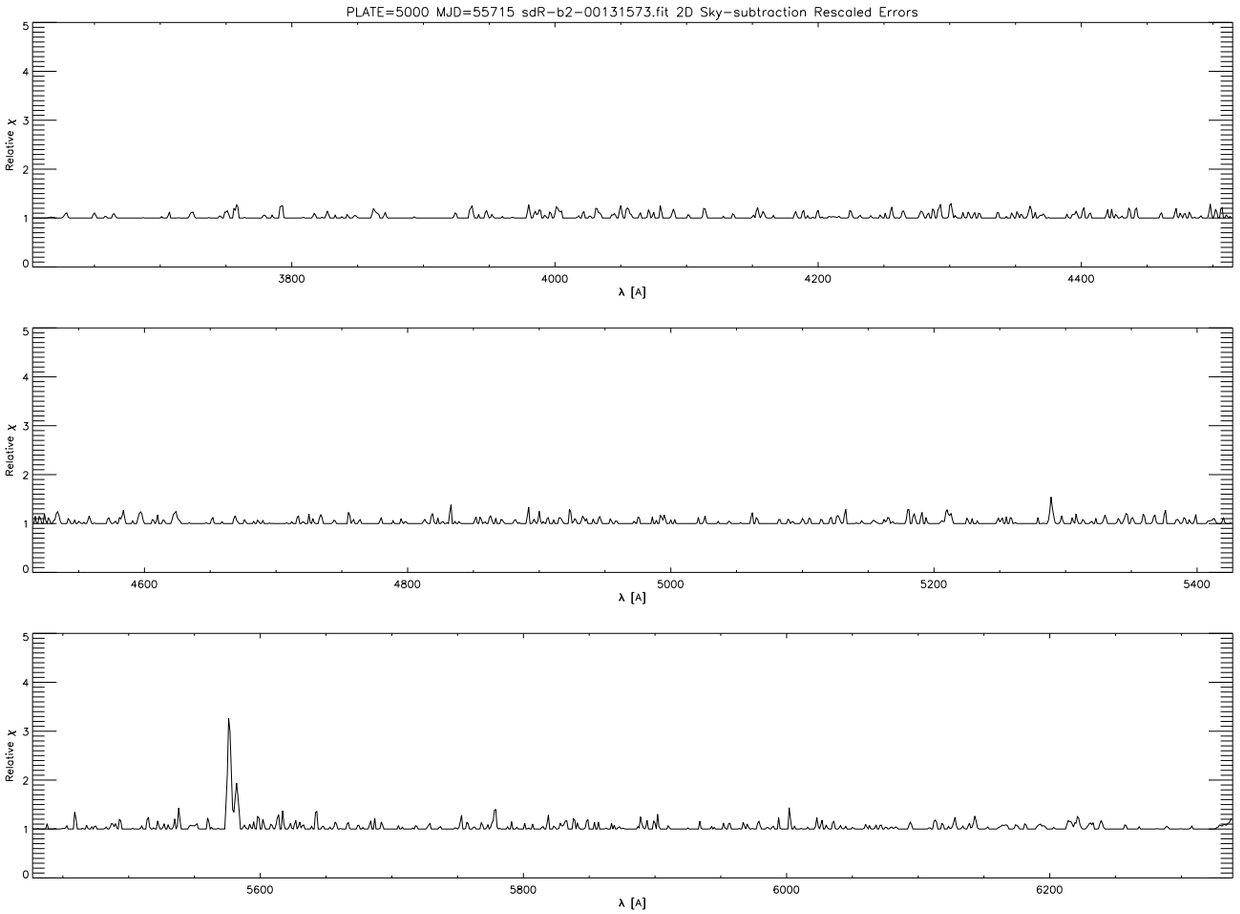

PLATE=5000 MJD=55715 sdR-b2-00131573.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number

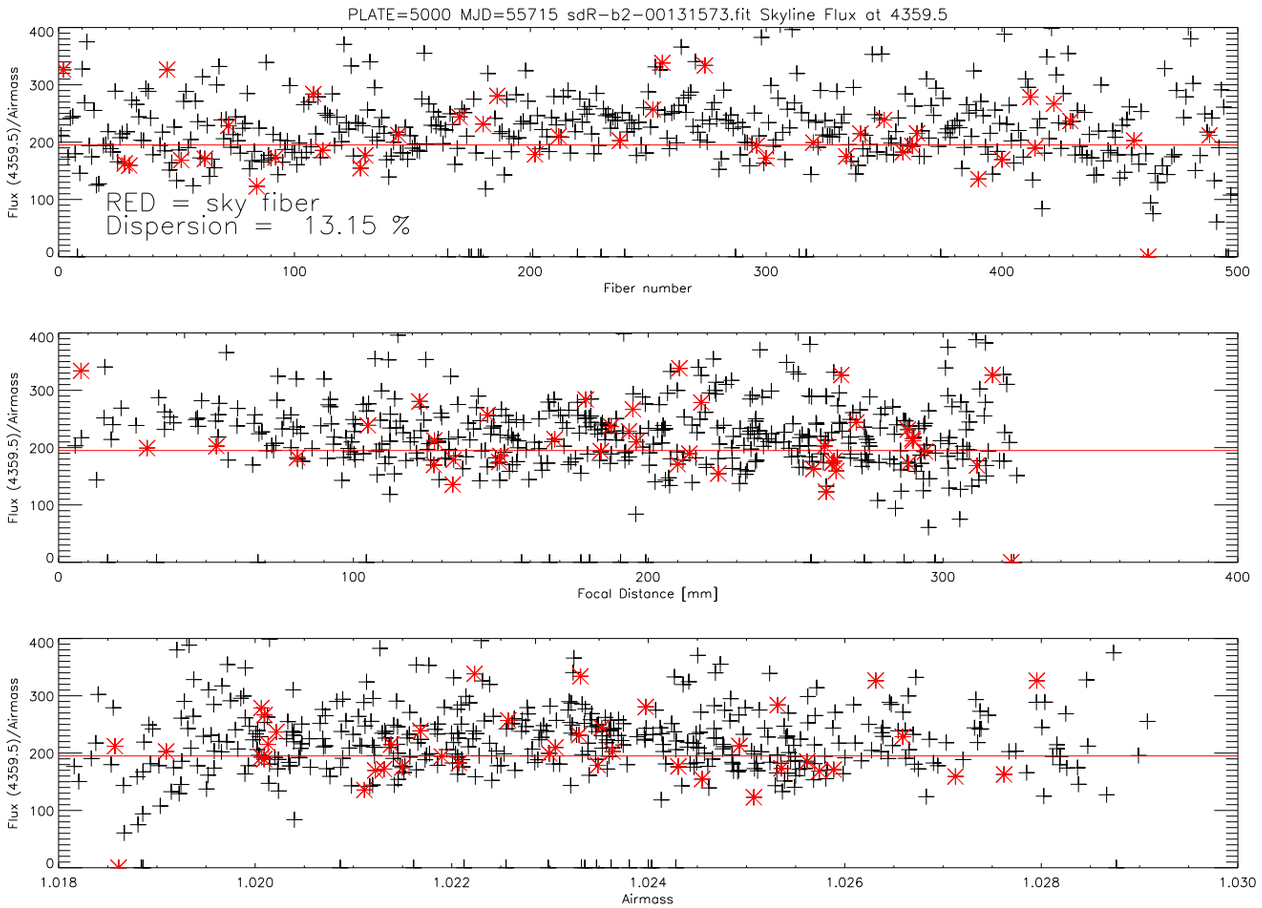
Median Sky-Sub Flux
Fiber number

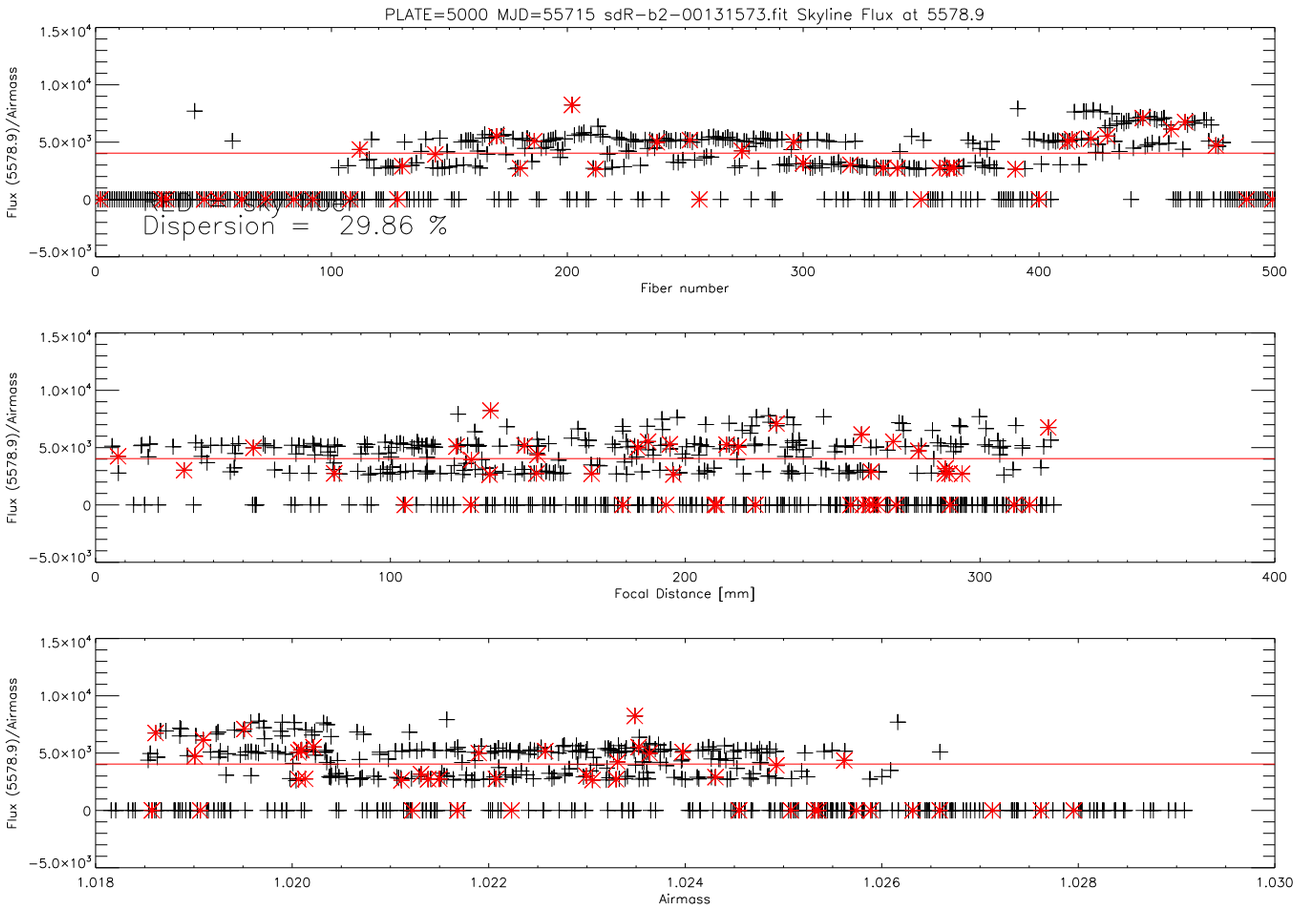

PLATE=5000 MJD=55715 sdR-b2-00131573.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

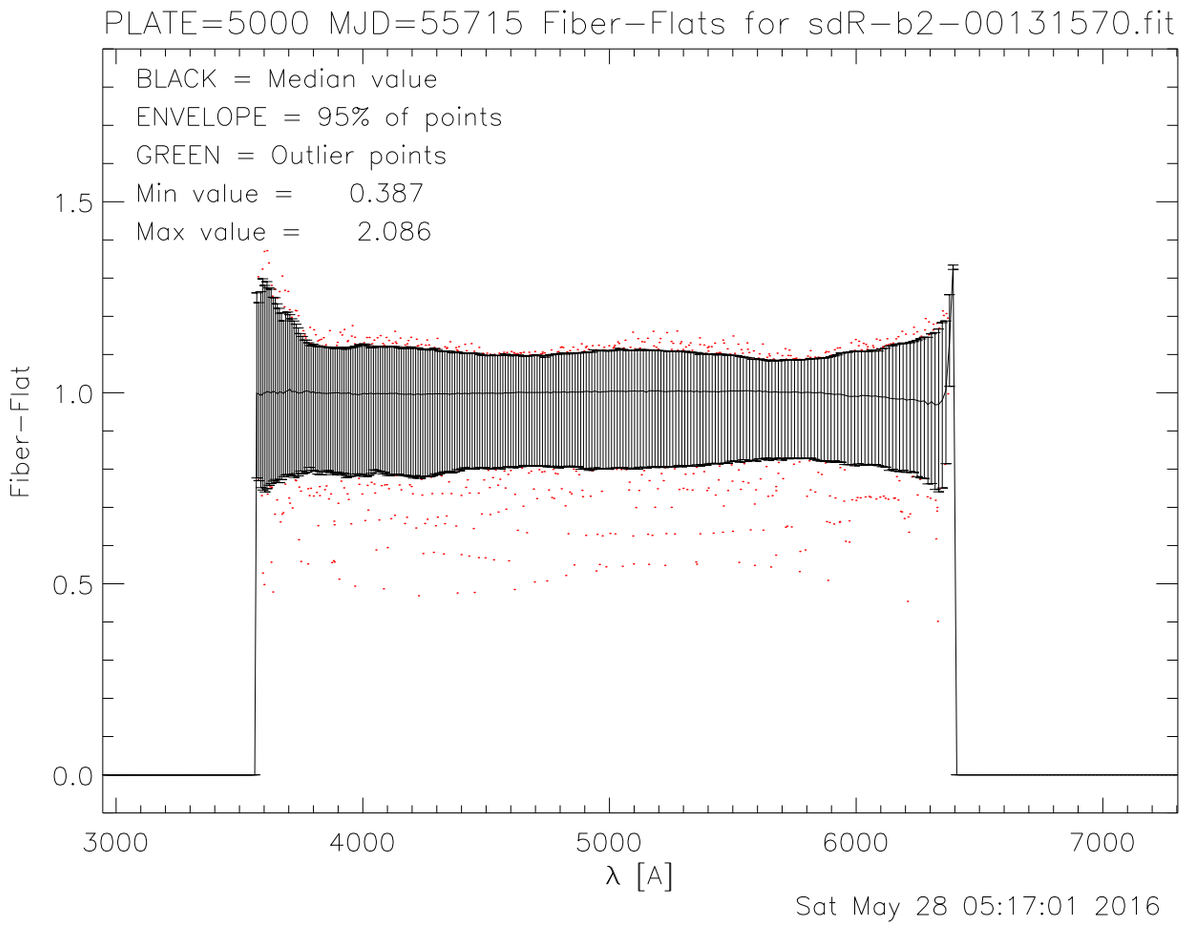

PLATE=5000 MJD=55715 sdR-b2-00131573.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

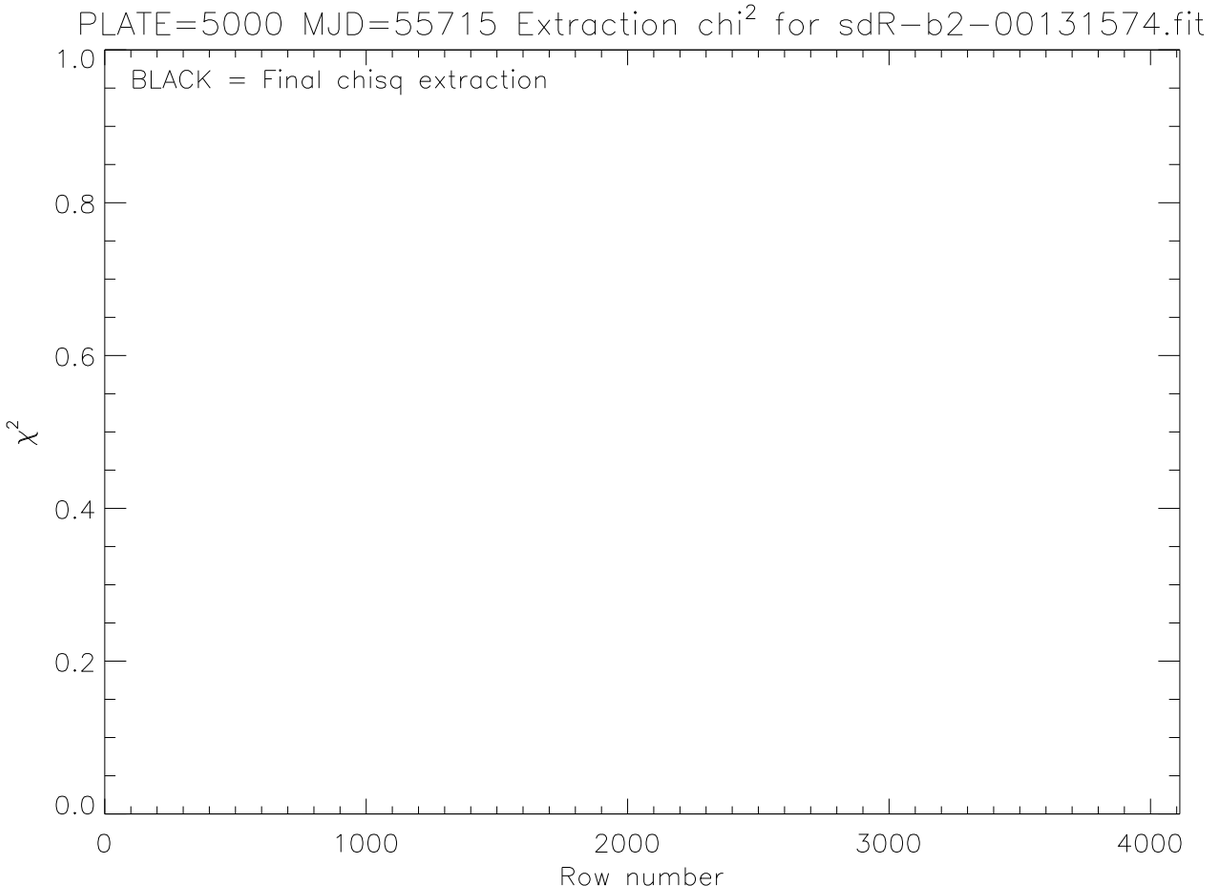
Number of sky fibers = 44

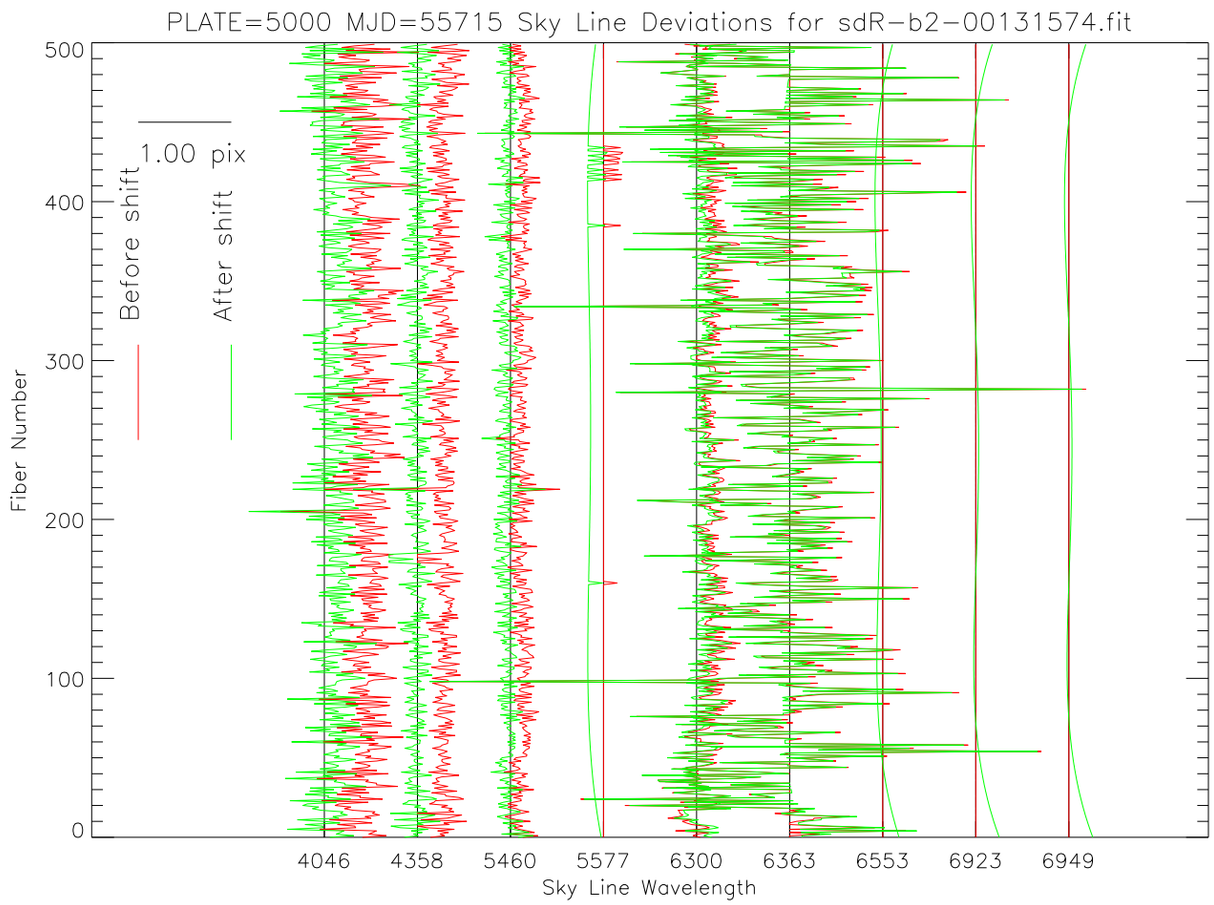


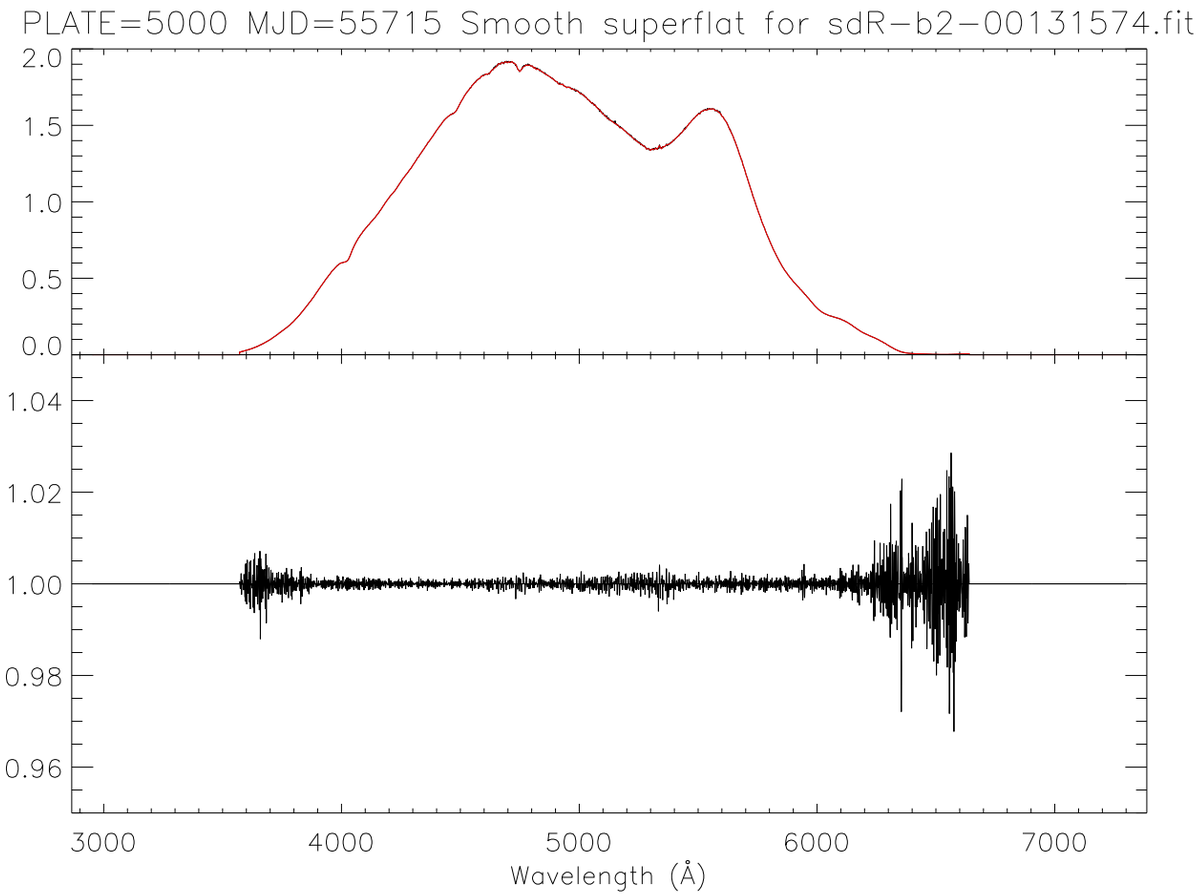

PLATE=5000 MJD=55715 sdR-b2-00131573.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 13.15 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

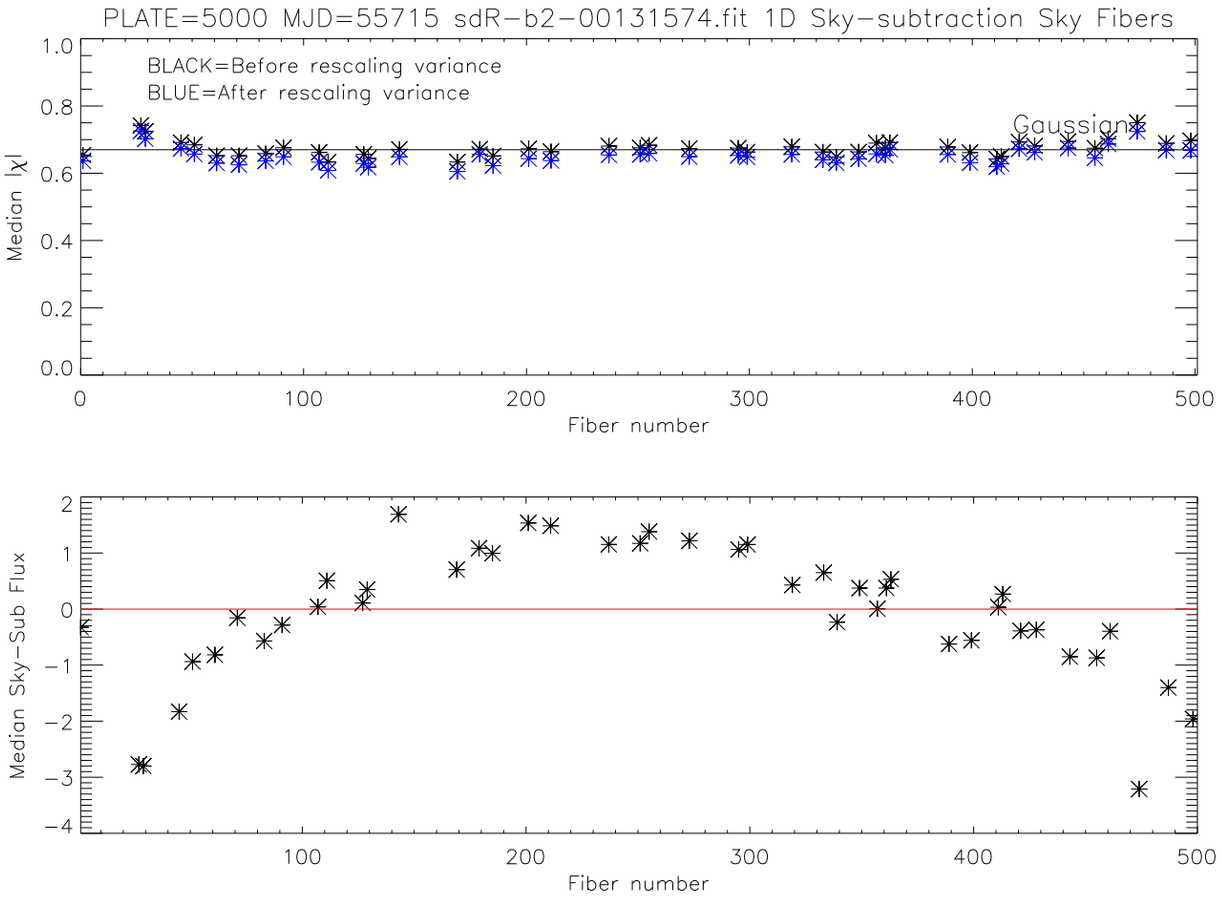

PLATE=5000 MJD=55715 sdR-b2-00131573.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
Red sky fiber
Dispersion = 29.86 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

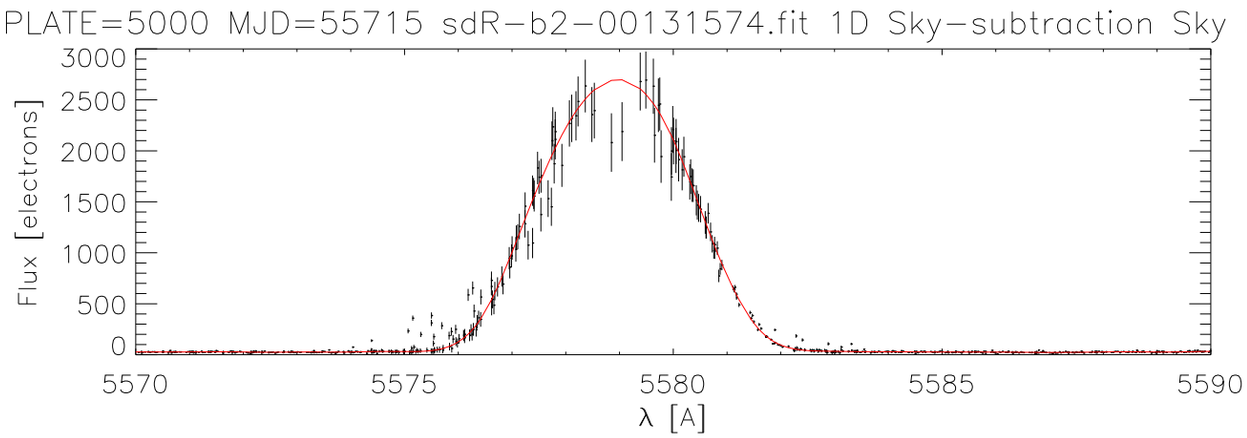

PLATE=5000 MJD=55715 Fiber−Flats for sdR−b2−00131570.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = 0.387
Max value = 2.086
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sat May 28 05:17:01 2016

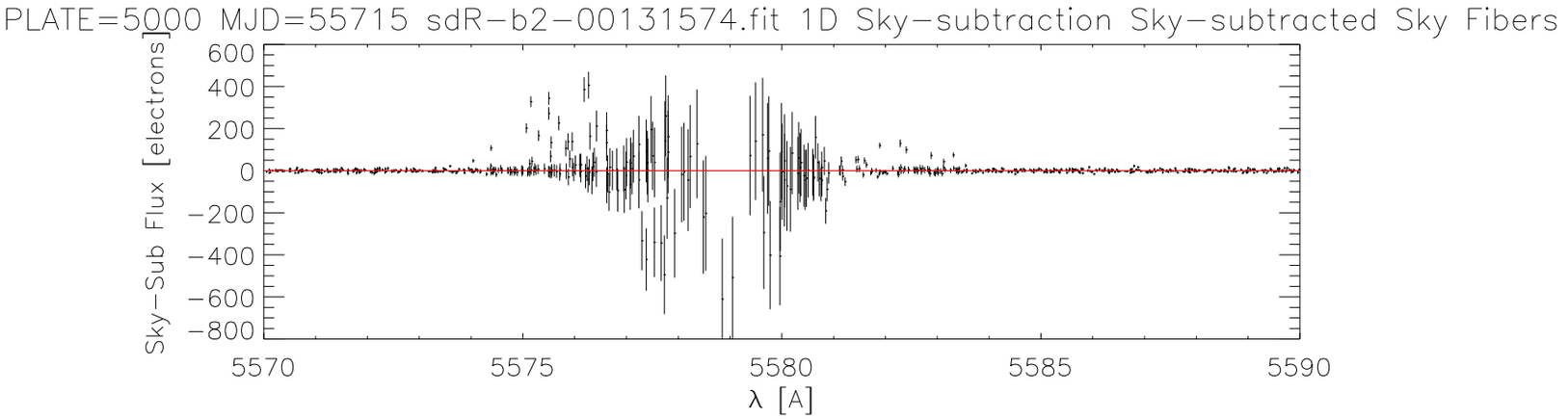

PLATE=5000 MJD=55715 Extraction chi^2 for sdR-b2-00131574.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=5000 MJD=55715 Sky Line Deviations for sdR-b2-00131574.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

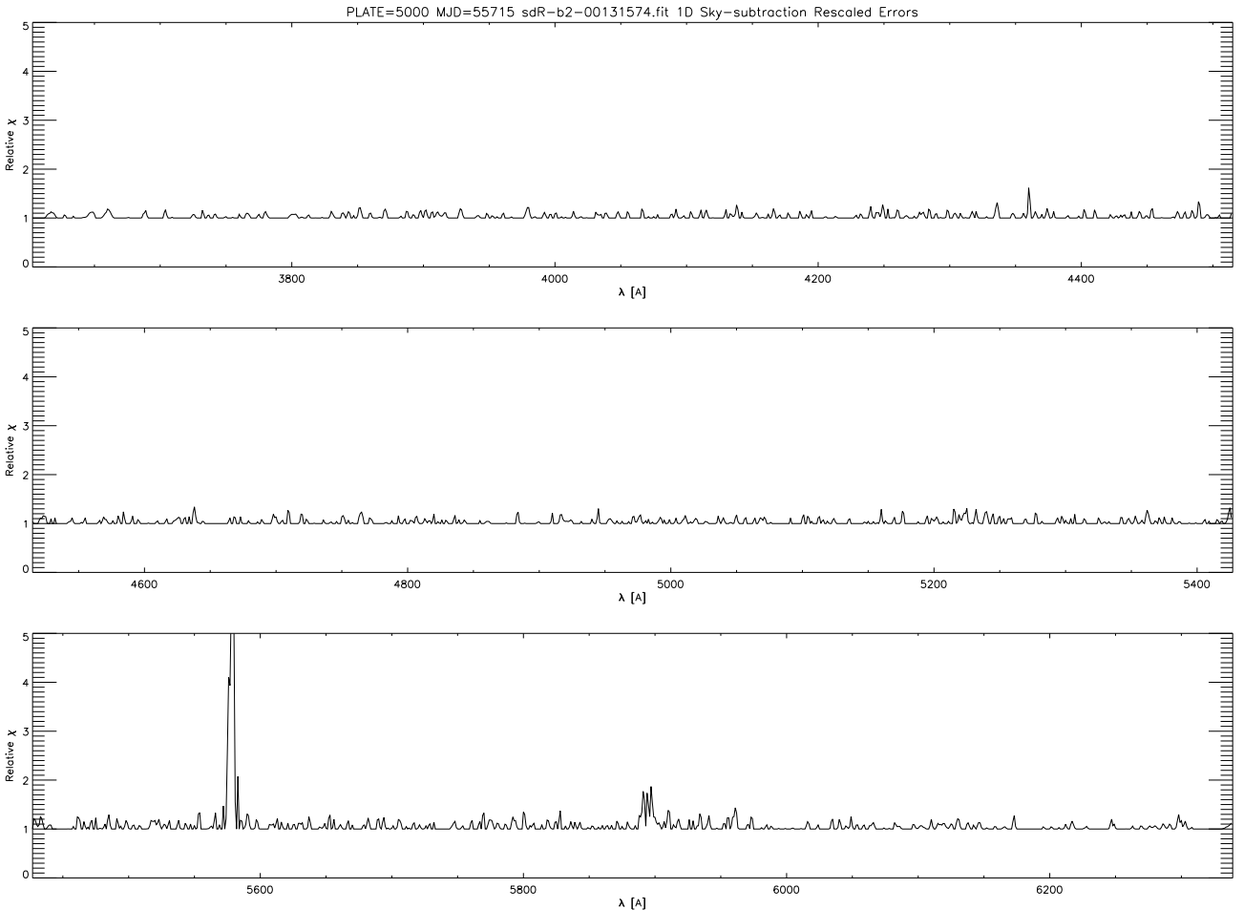

PLATE=5000 MJD=55715 Smooth superflat for sdR-b2-00131574.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

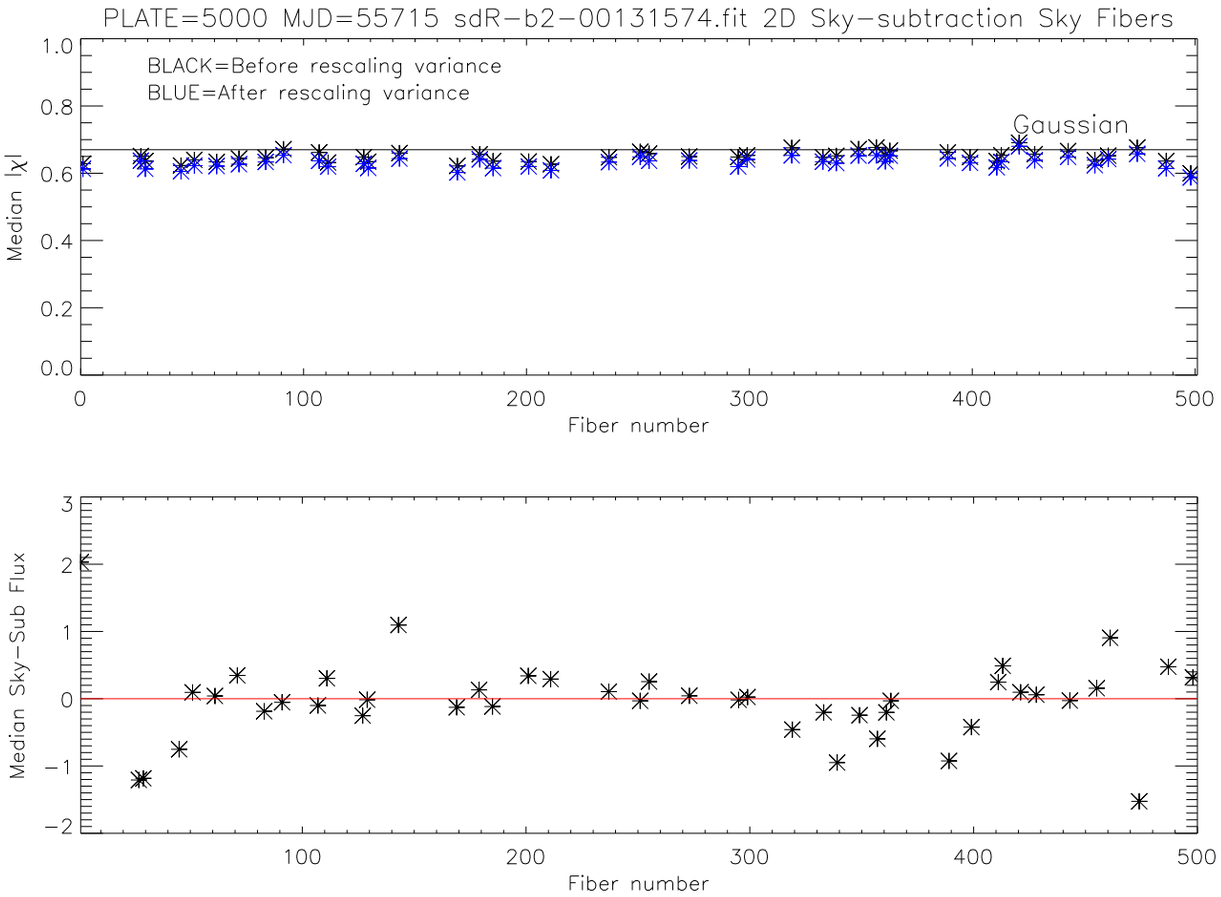

PLATE=5000 MJD=55715 sdR-b2-00131574.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

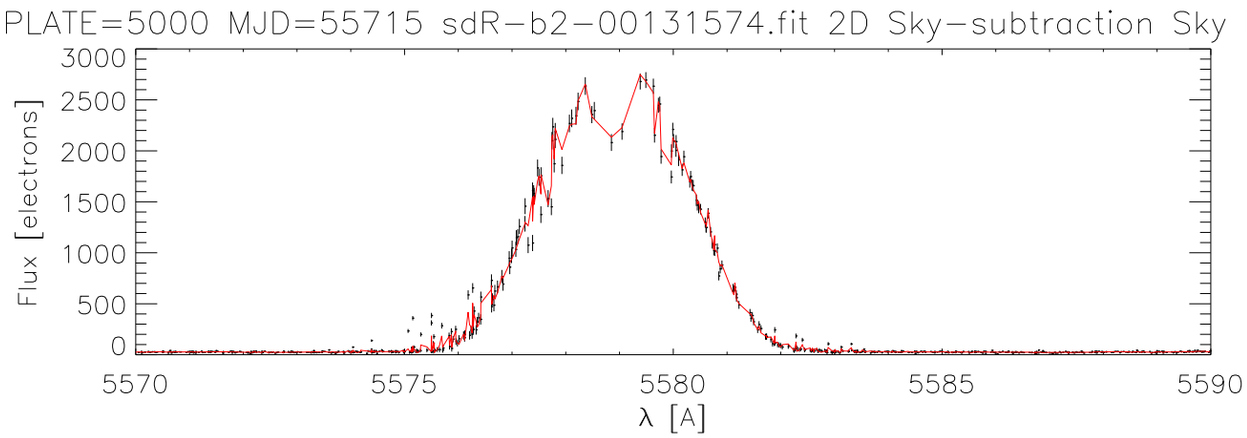

PLATE=5000 MJD=55715 sdR-b2-00131574.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

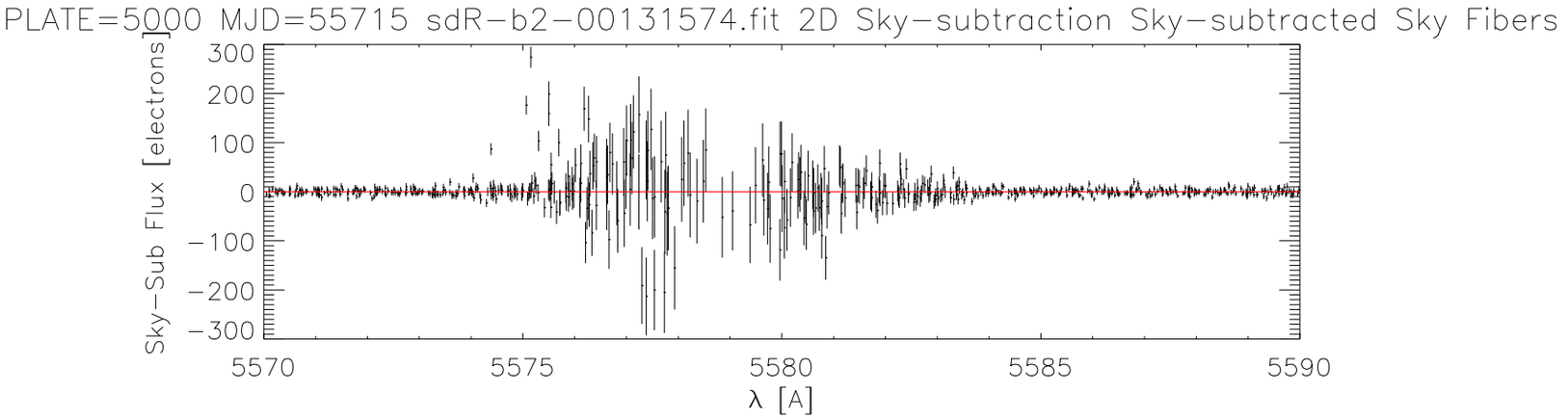

PLATE=5000 MJD=55715 sdR-b2-00131574.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
-600
-800
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 44

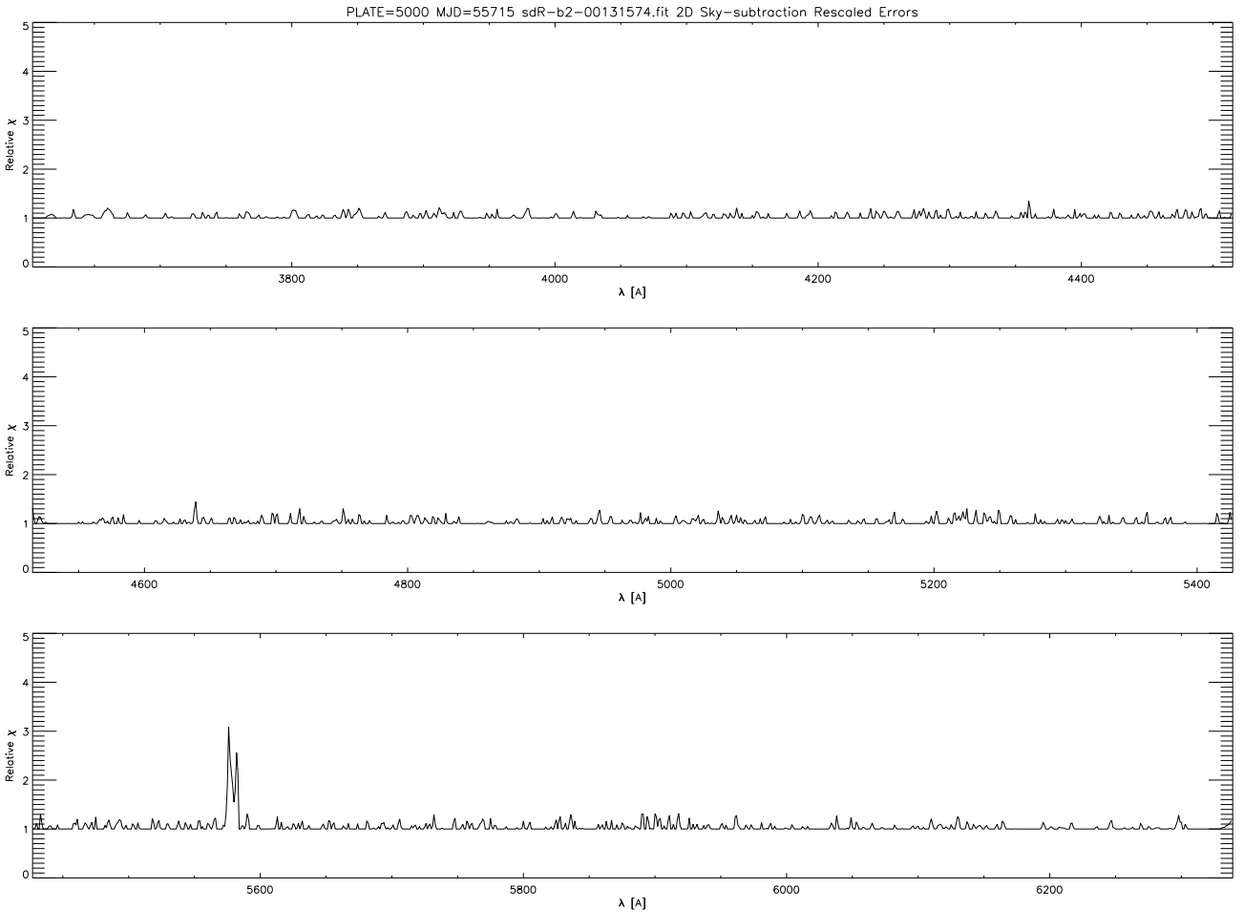


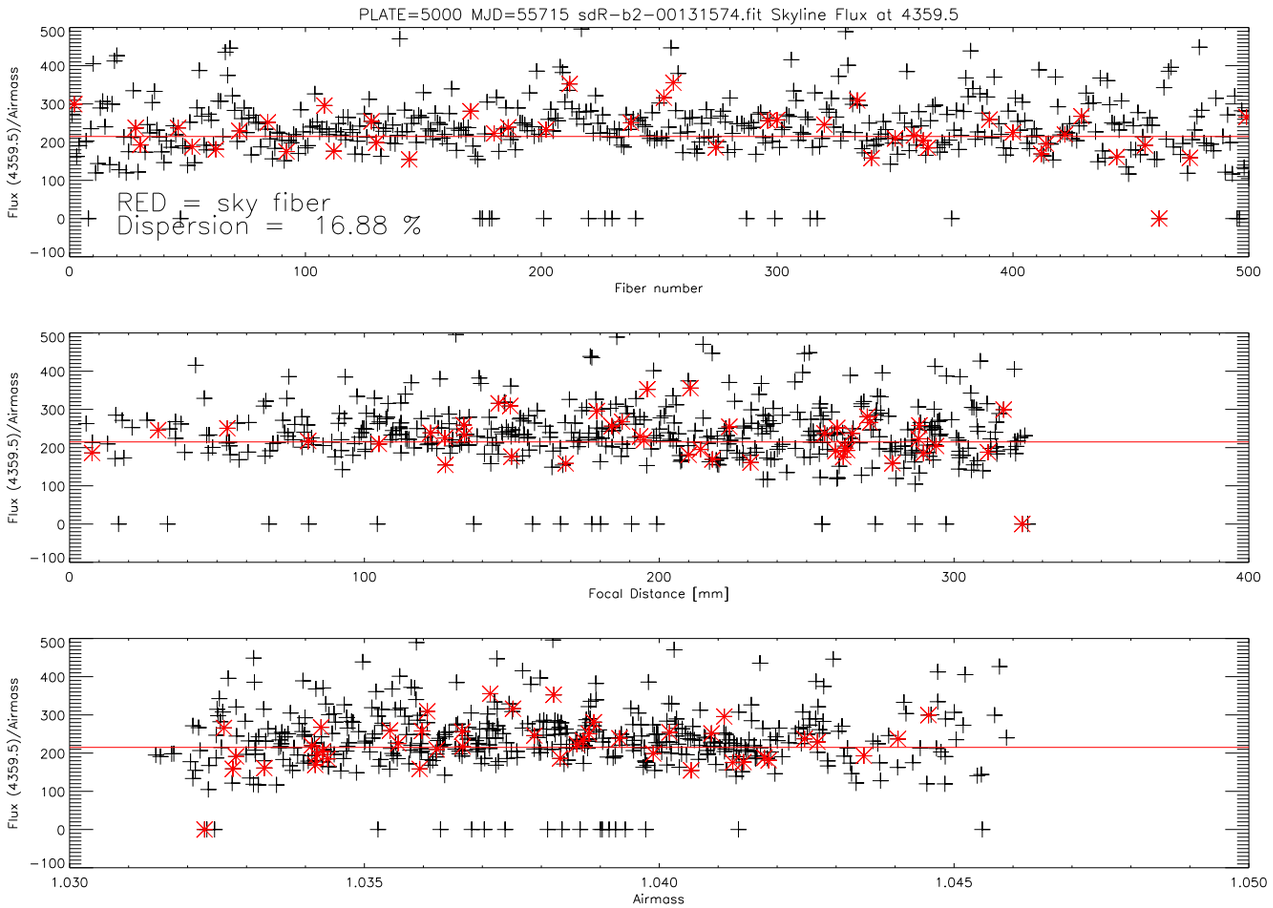

PLATE=5000 MJD=55715 sdR-b2-00131574.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

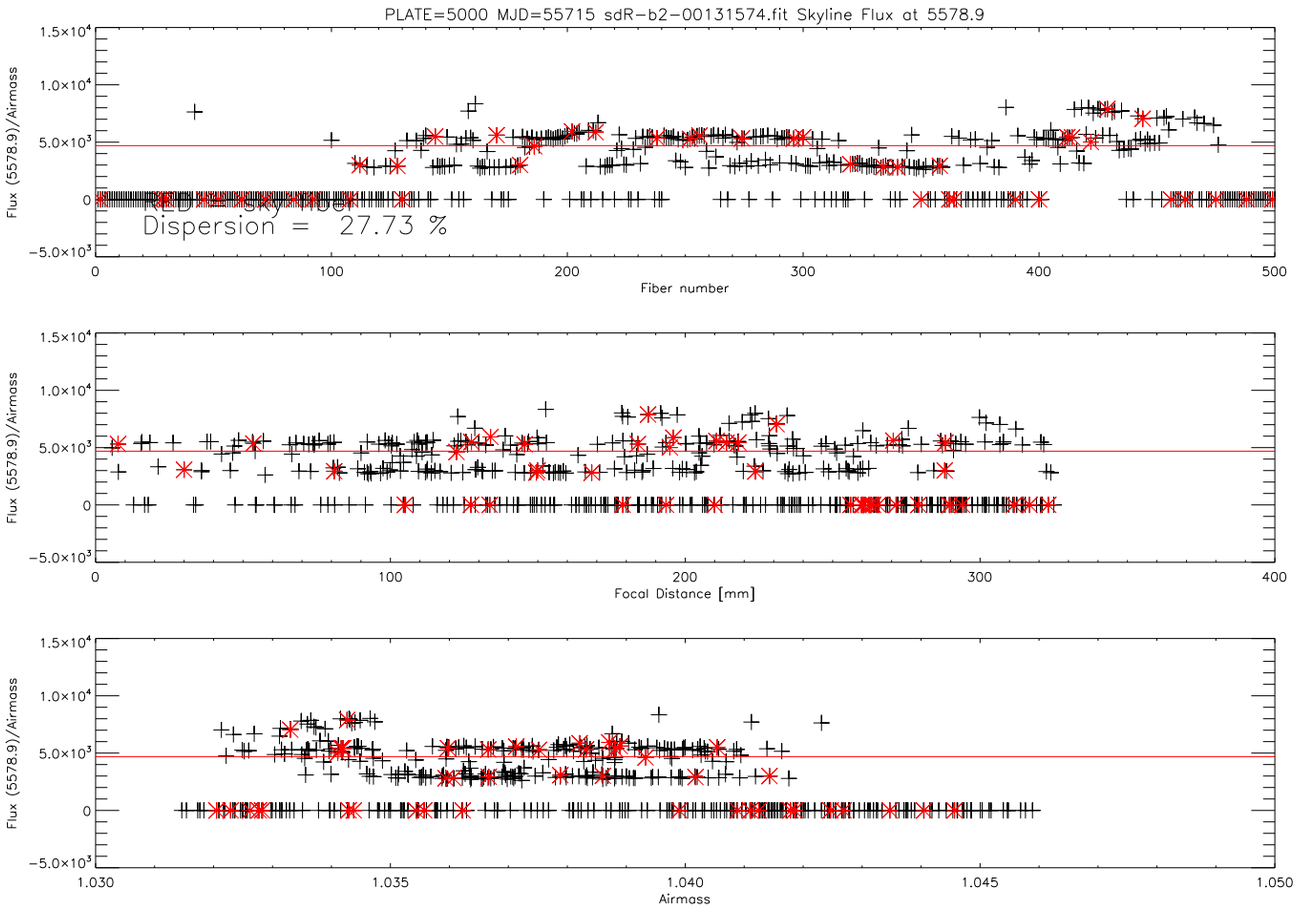

PLATE=5000 MJD=55715 sdR-b2-00131574.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

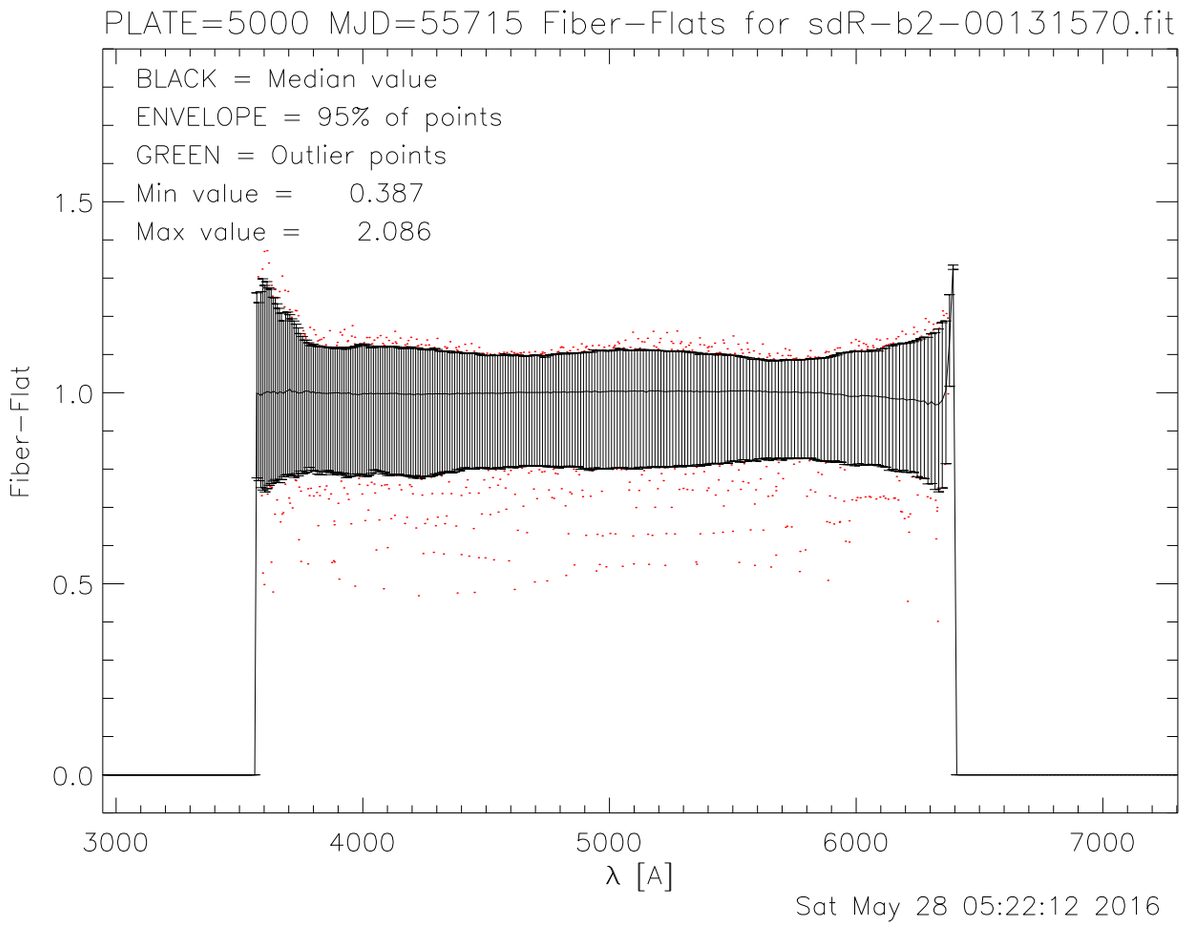

PLATE=5000 MJD=55715 sdR-b2-00131574.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

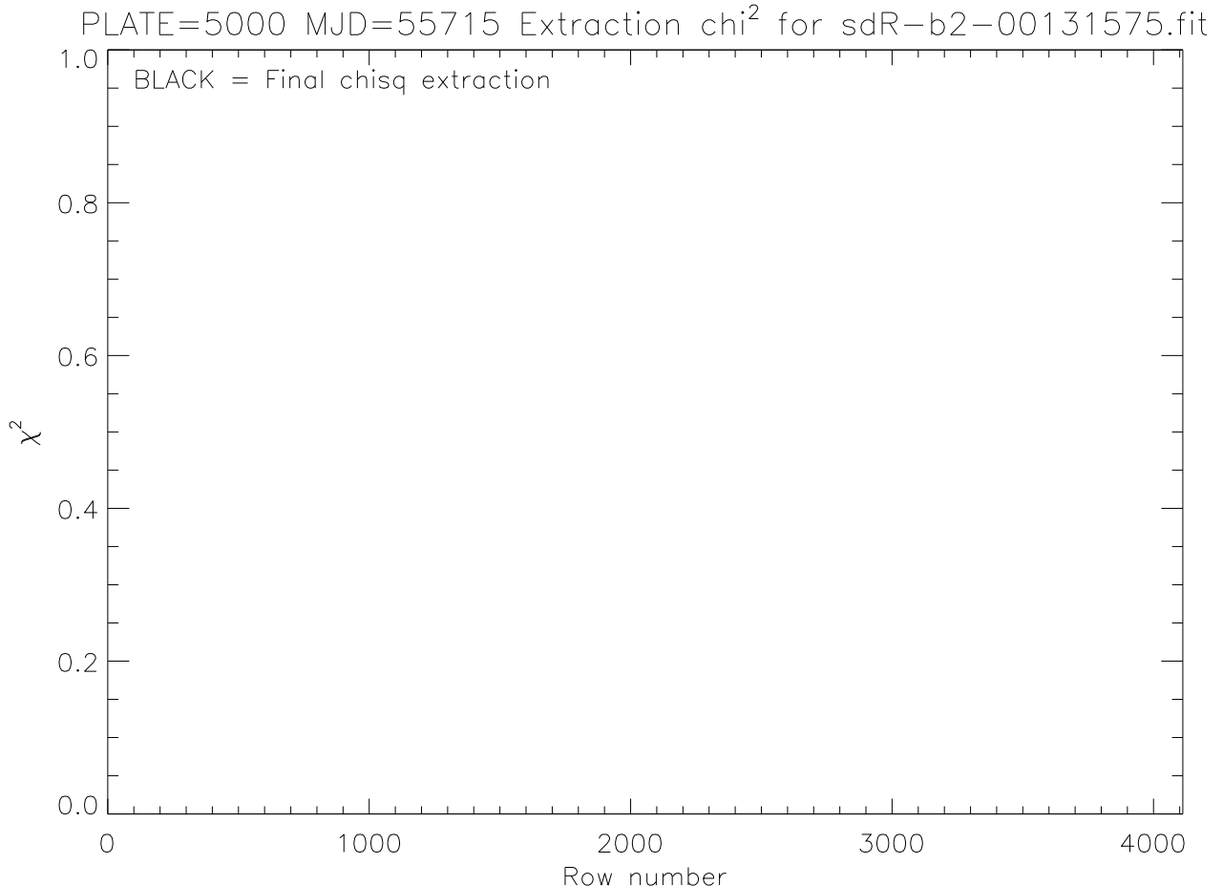
Number of sky fibers = 44

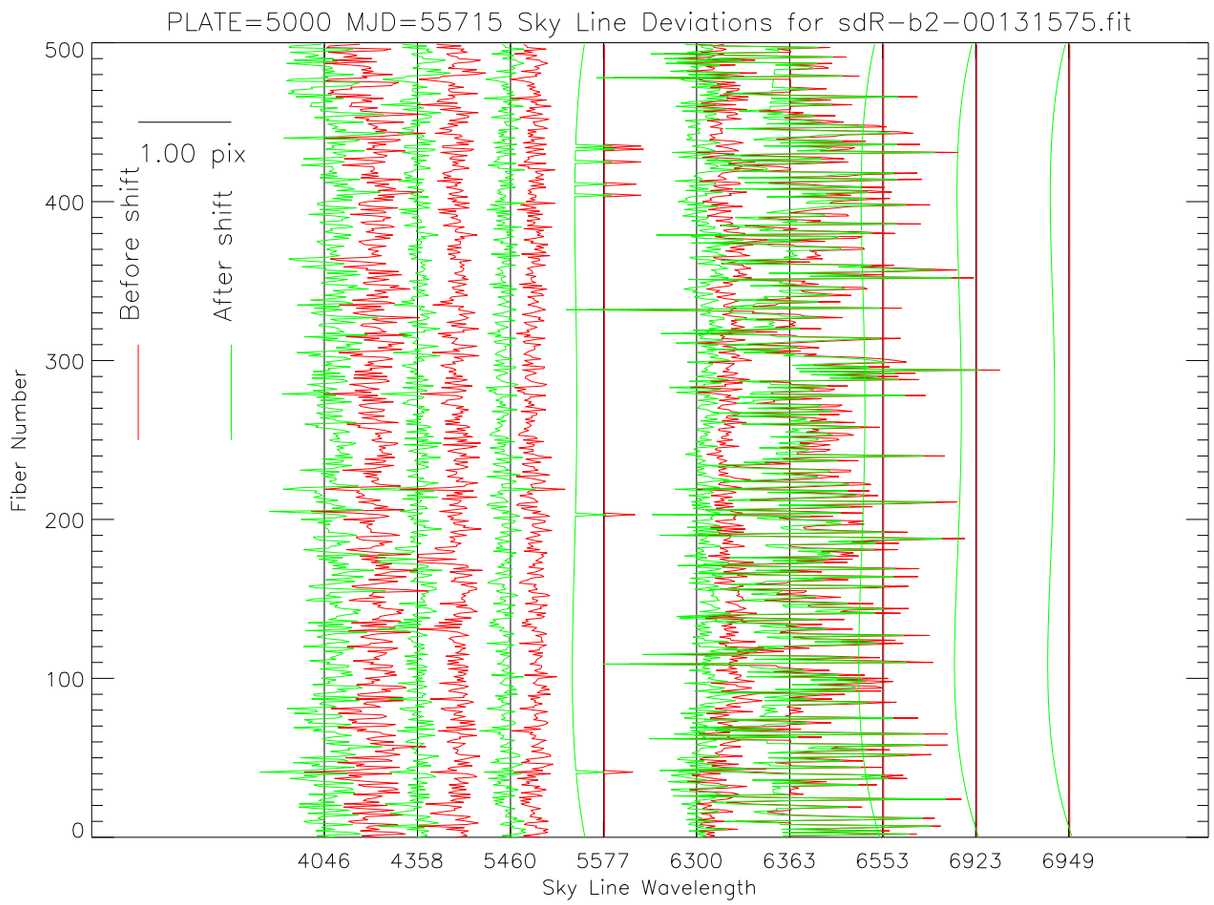


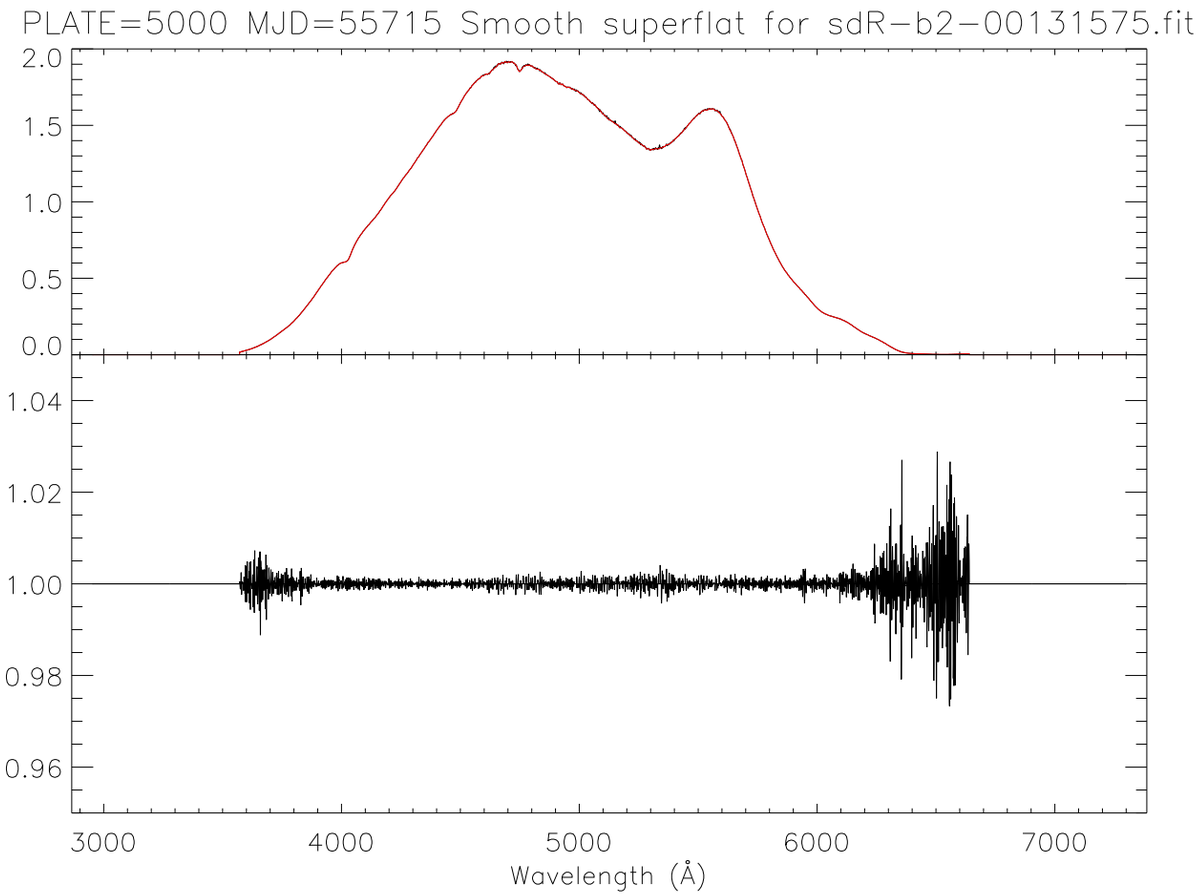

PLATE=5000 MJD=55715 sdR-b2-00131574.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 16.88 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

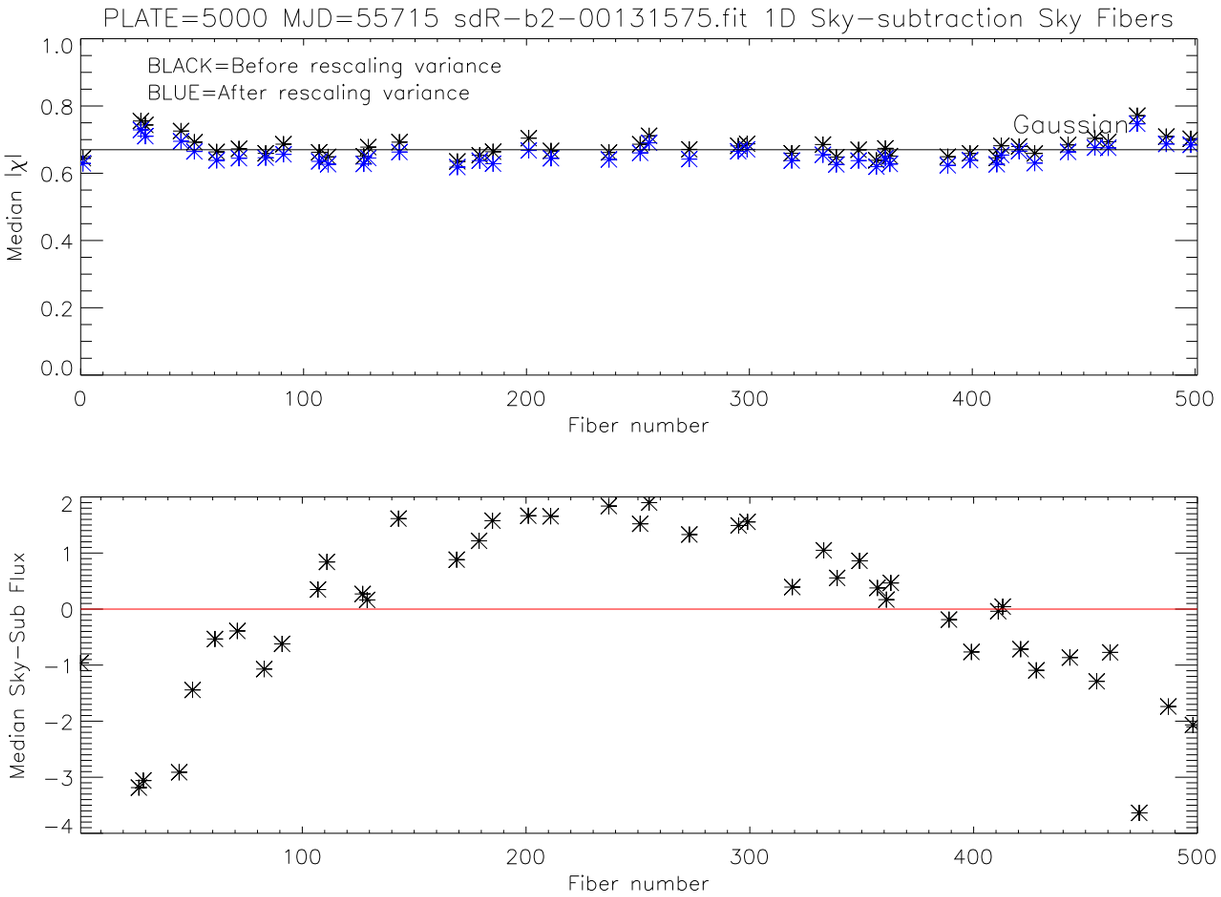

PLATE=5000 MJD=55715 sdR-b2-00131574.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
Red sky fiber
Dispersion = 27.73 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

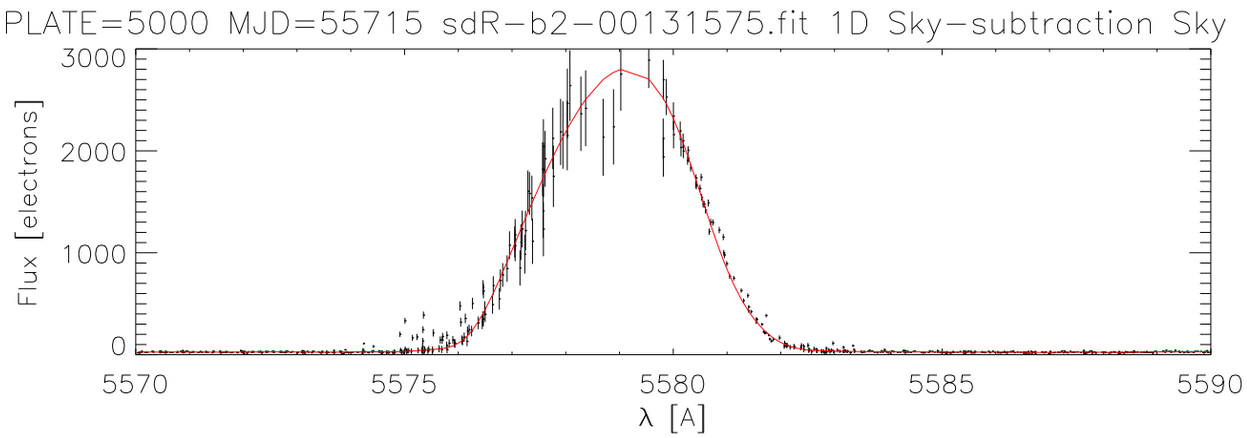

PLATE=5000 MJD=55715 Fiber−Flats for sdR−b2−00131570.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = 0.387
Max value = 2.086
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sat May 28 05:22:12 2016

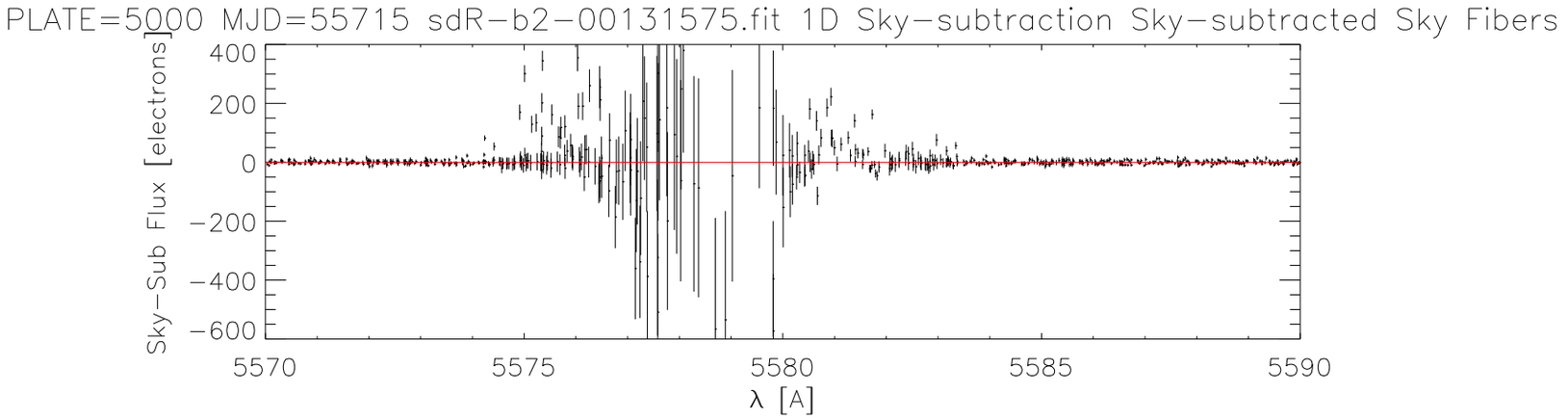

PLATE=5000 MJD=55715 Extraction chi^2 for sdR-b2-00131575.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=5000 MJD=55715 Sky Line Deviations for sdR-b2-00131575.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

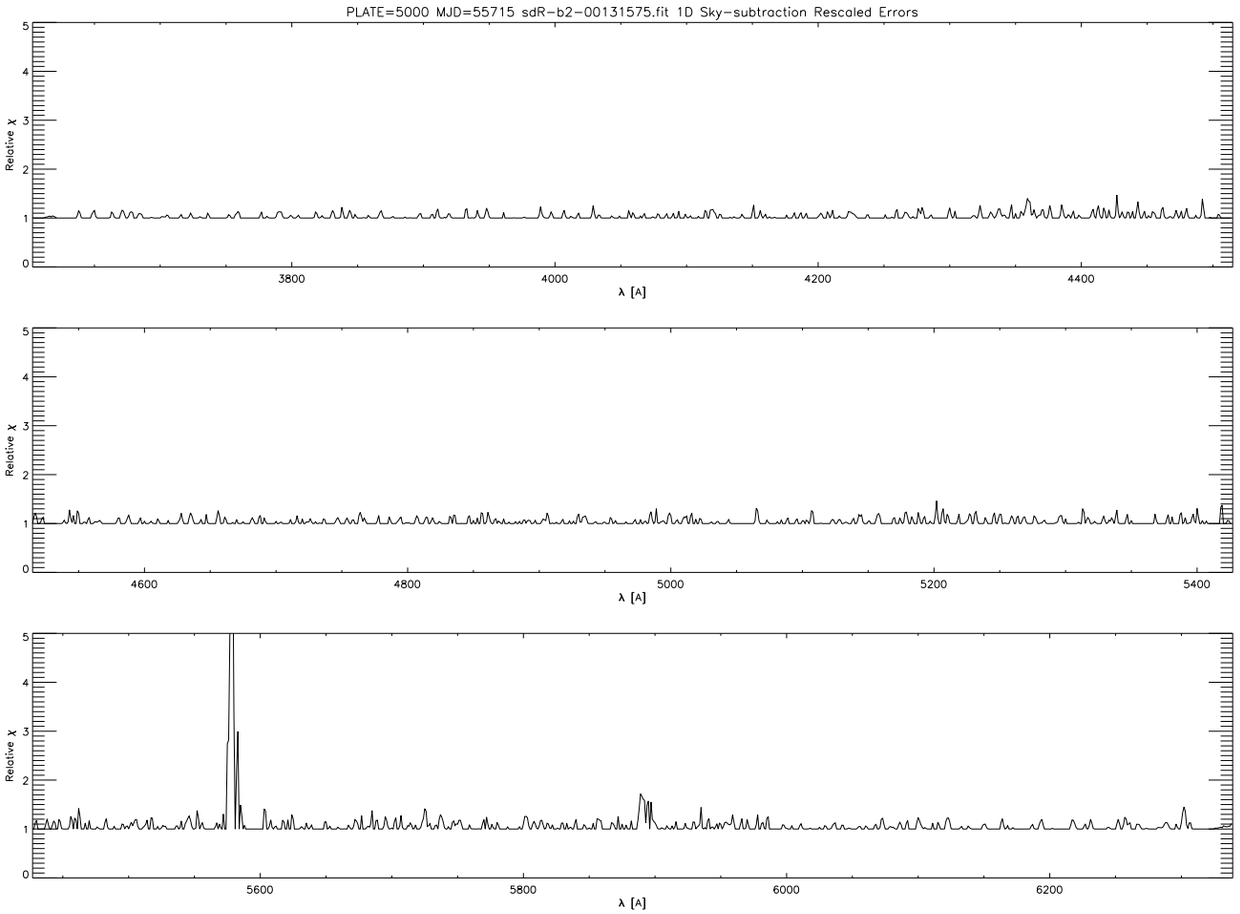

PLATE=5000 MJD=55715 Smooth superflat for sdR-b2-00131575.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

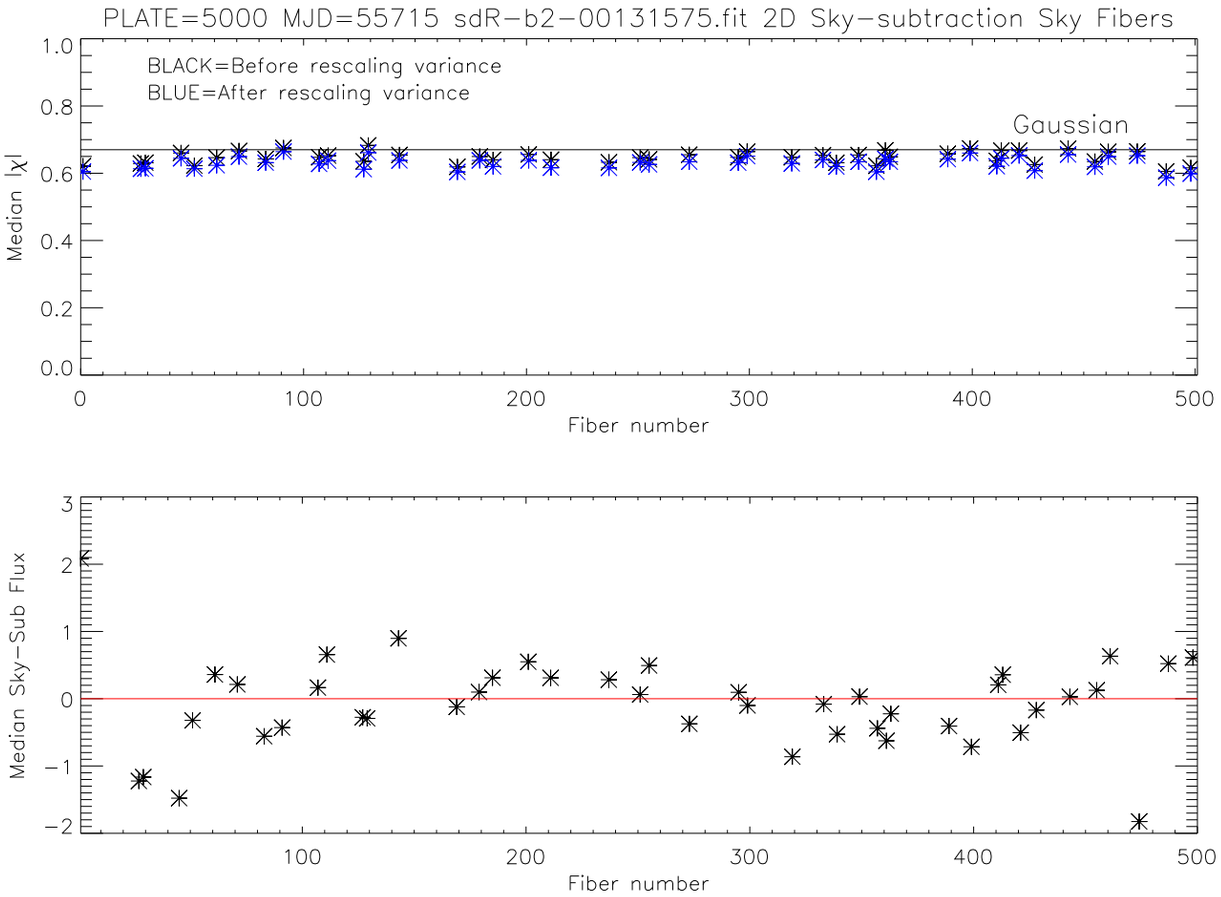

PLATE=5000 MJD=55715 sdR-b2-00131575.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

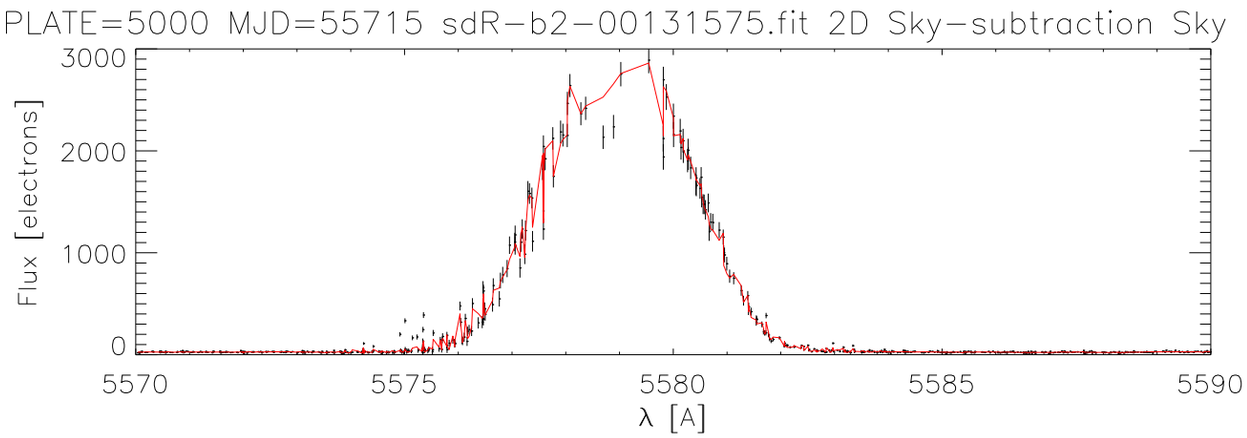

PLATE=5000 MJD=55715 sdR-b2-00131575.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

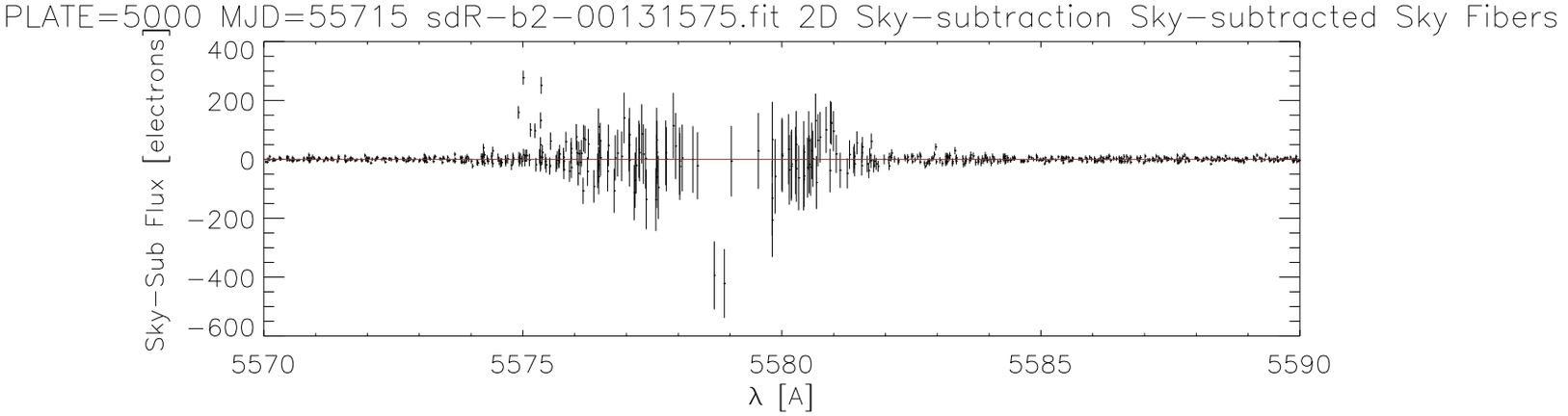

PLATE=5000 MJD=55715 sdR-b2-00131575.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 44

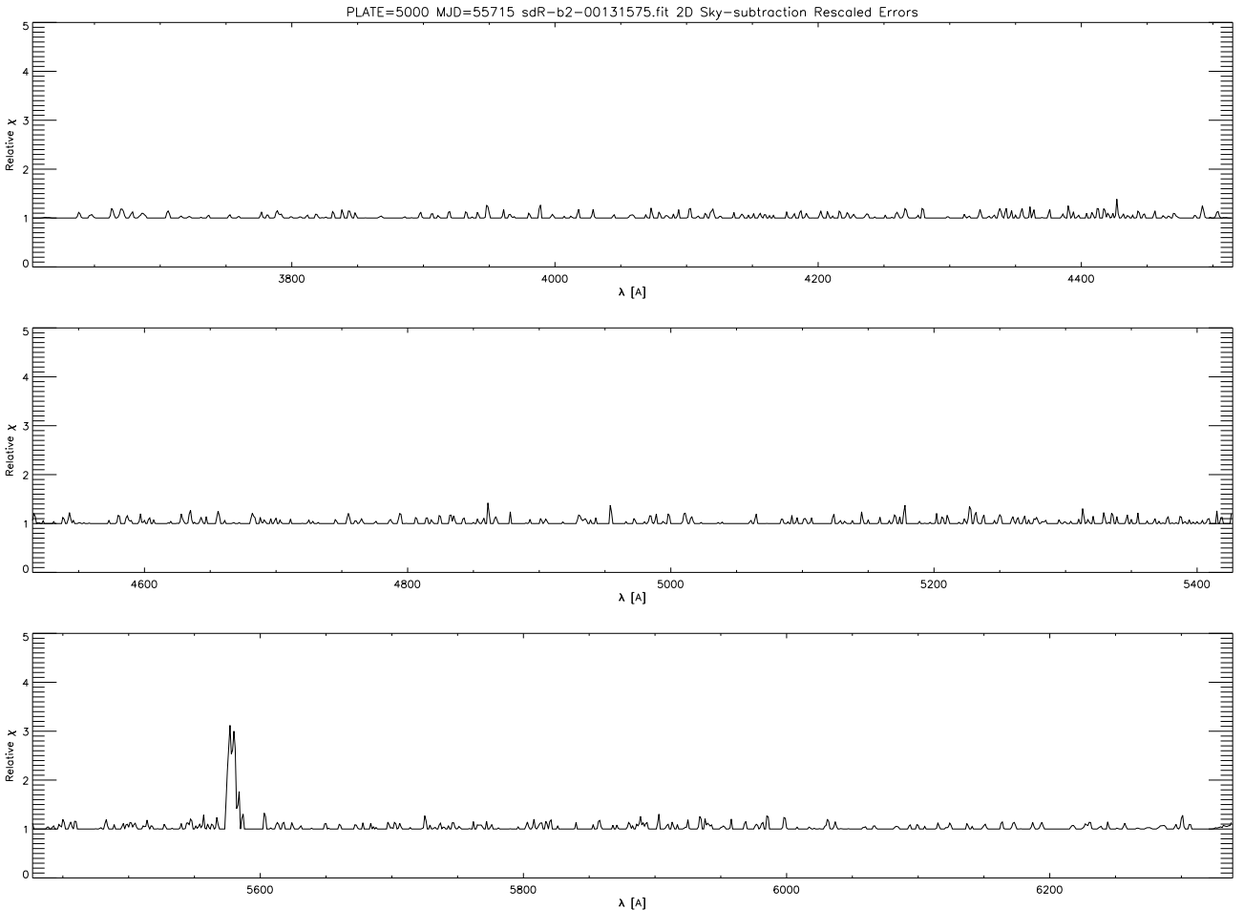


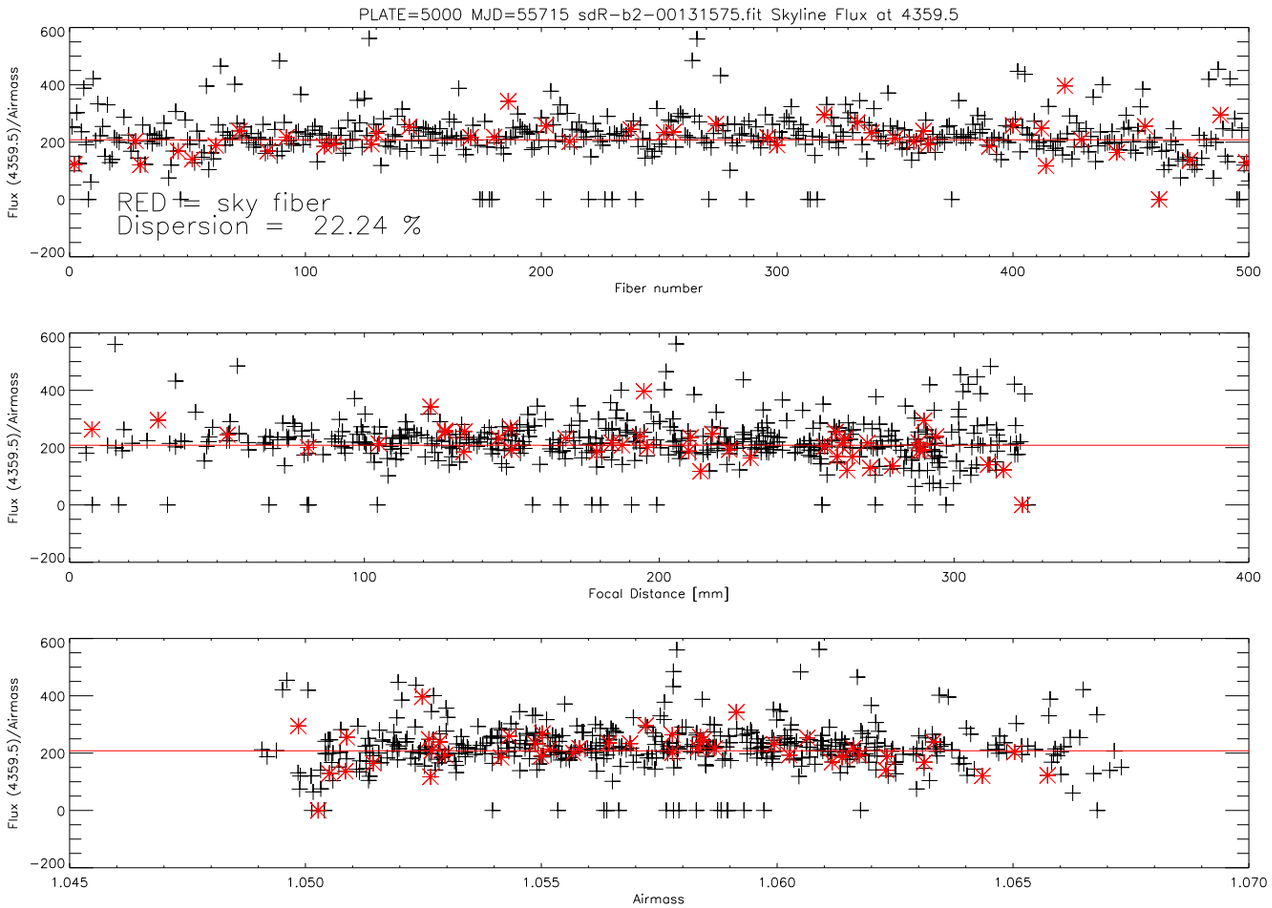

PLATE=5000 MJD=55715 sdR-b2-00131575.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

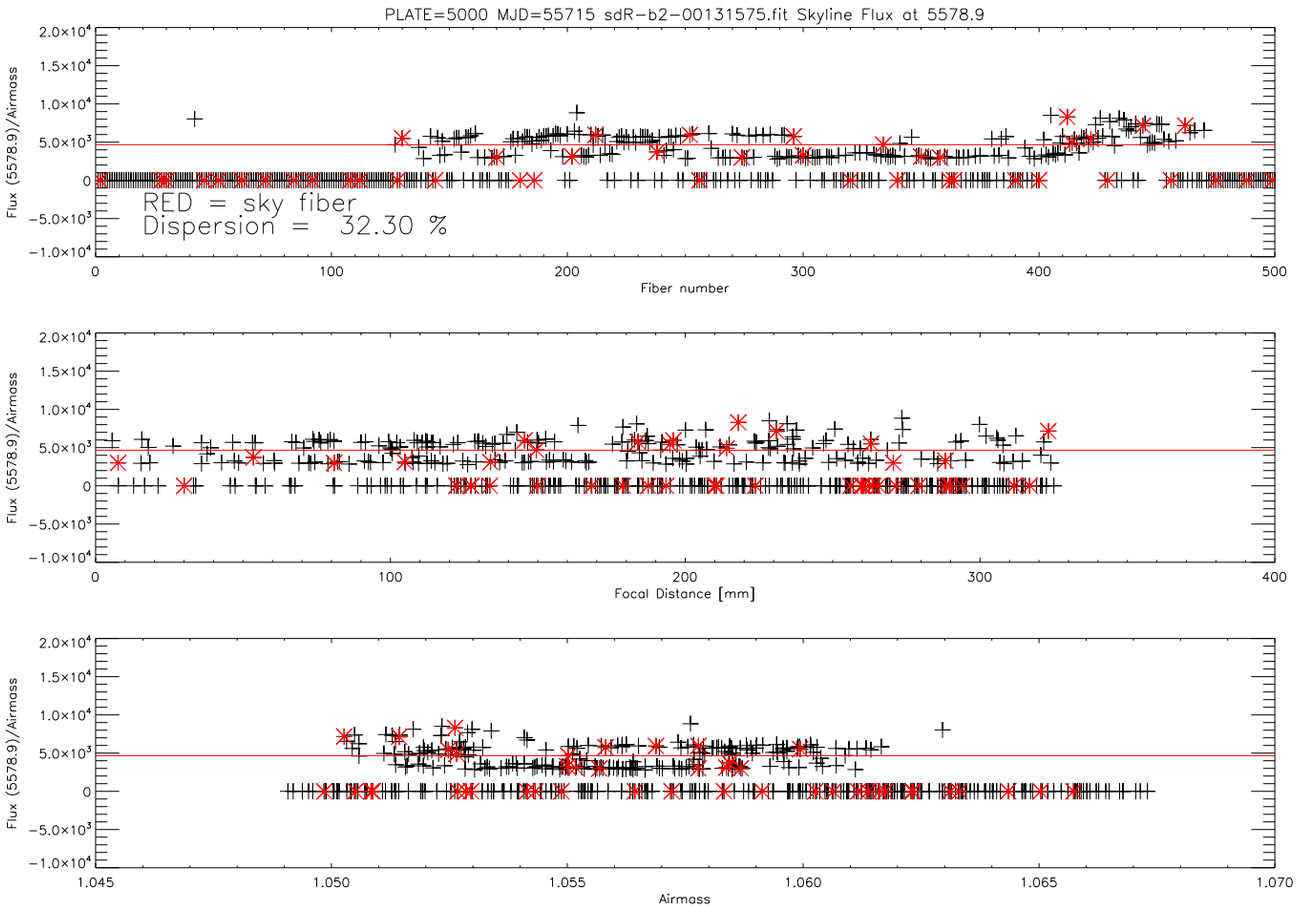

PLATE=5000 MJD=55715 sdR-b2-00131575.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]


PLATE=5000 MJD=55715 sdR-b2-00131575.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

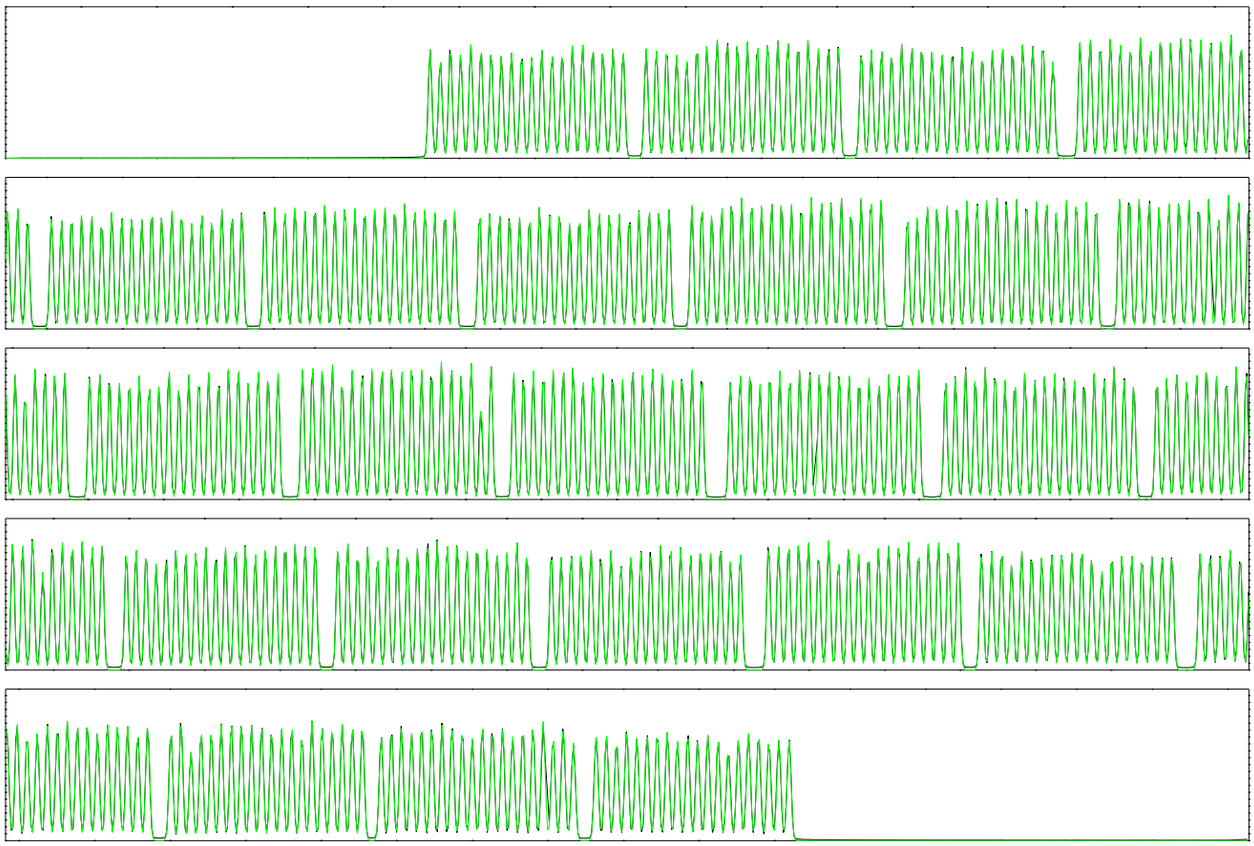
Number of sky fibers = 44

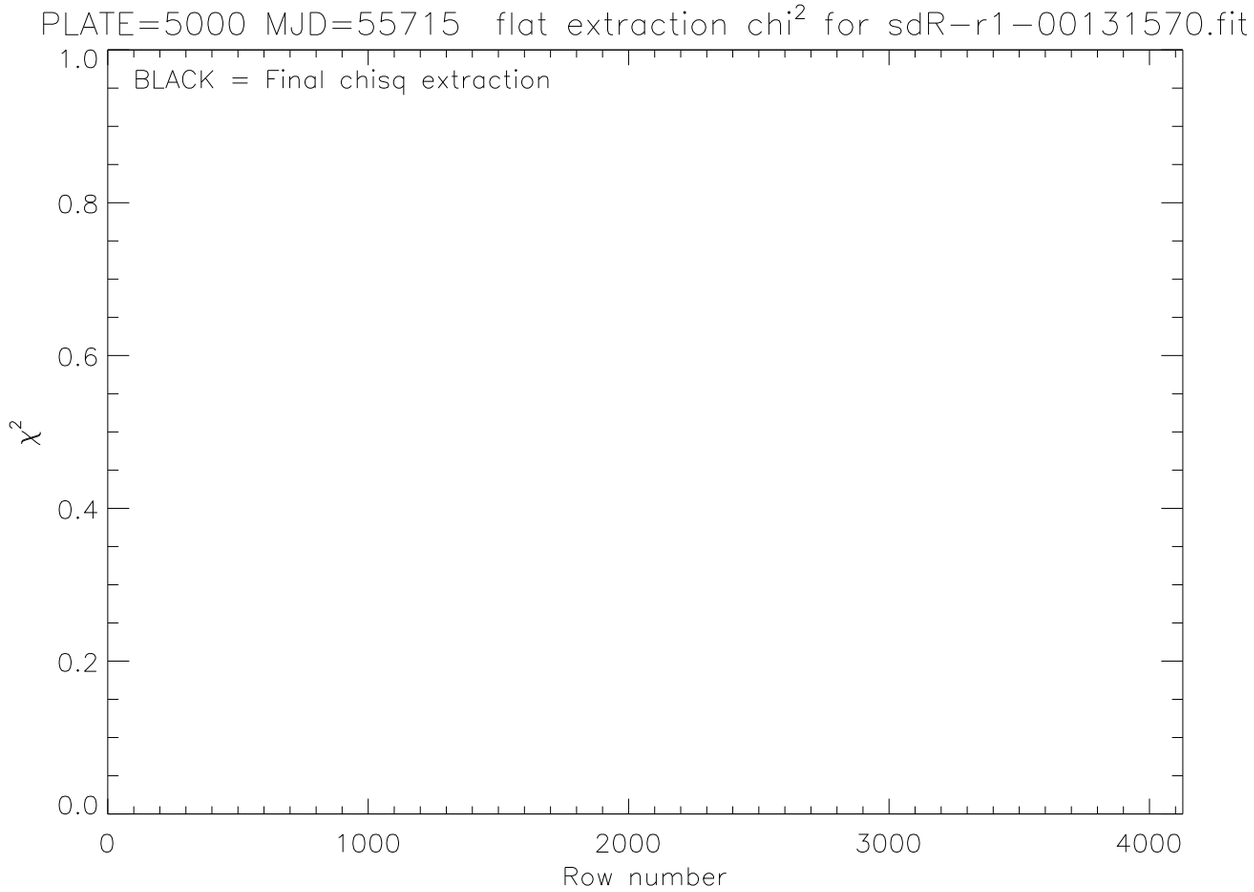


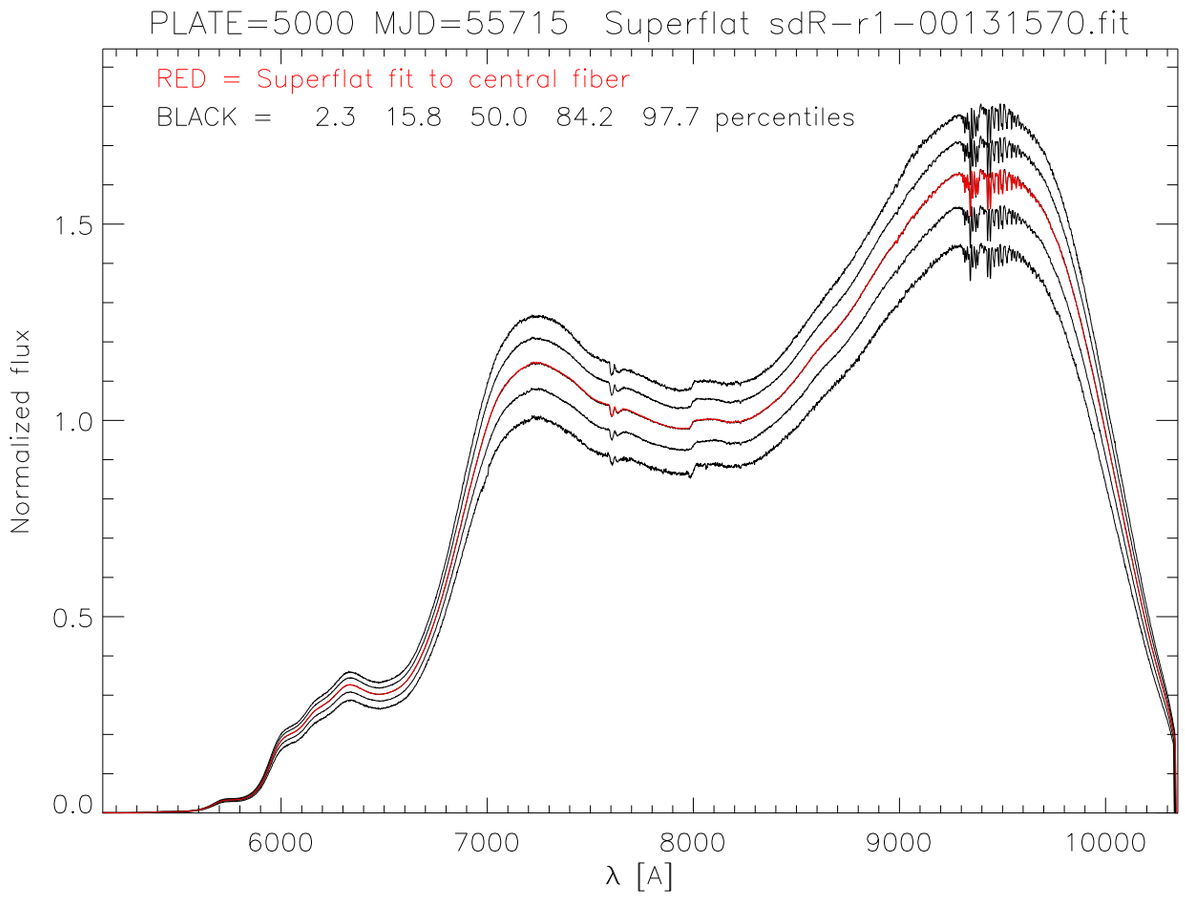

PLATE=5000 MJD=55715 sdR-b2-00131575.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 22.24 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

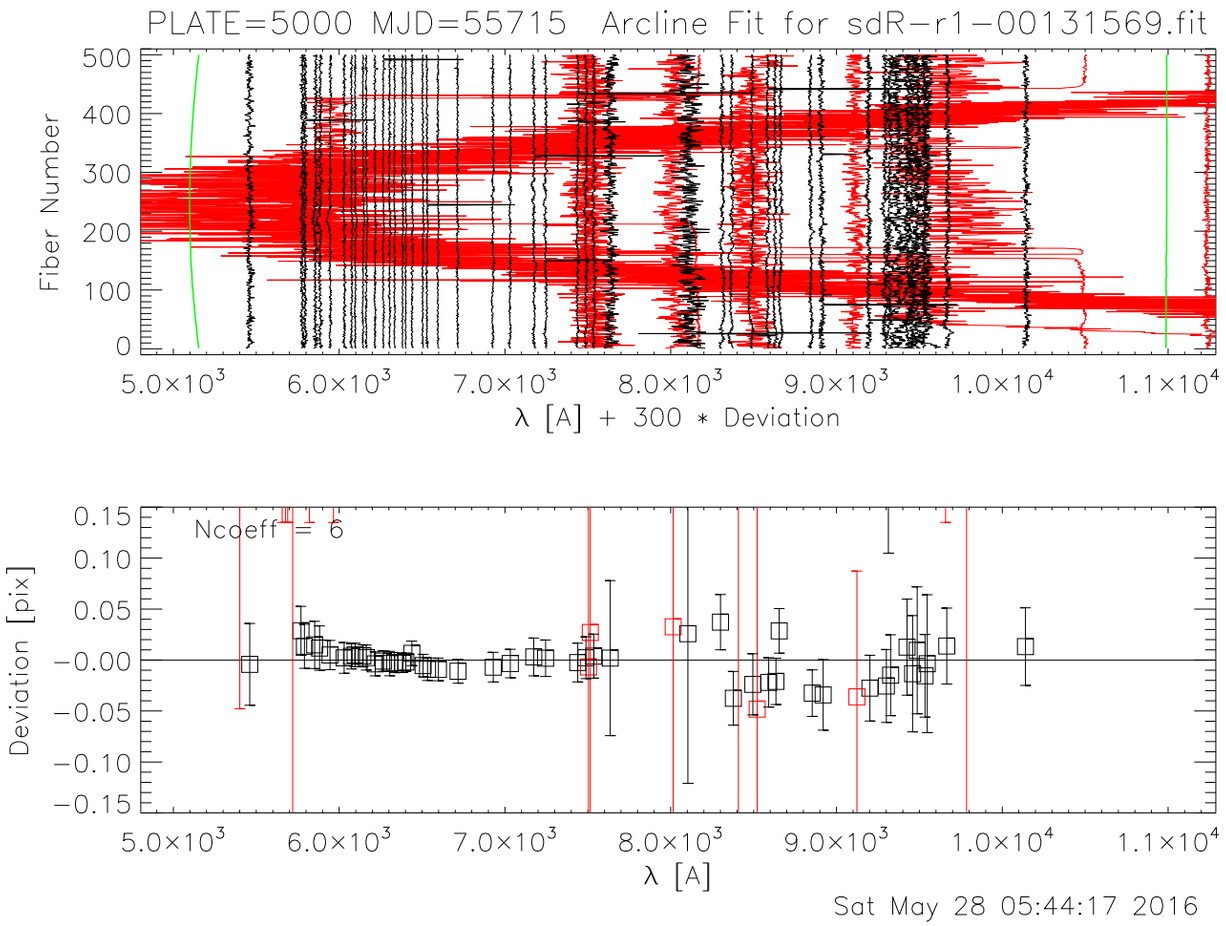

PLATE=5000 MJD=55715 sdR-b2-00131575.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 32.30 %
Fiber number
Focal Distance [mm]
Airmass

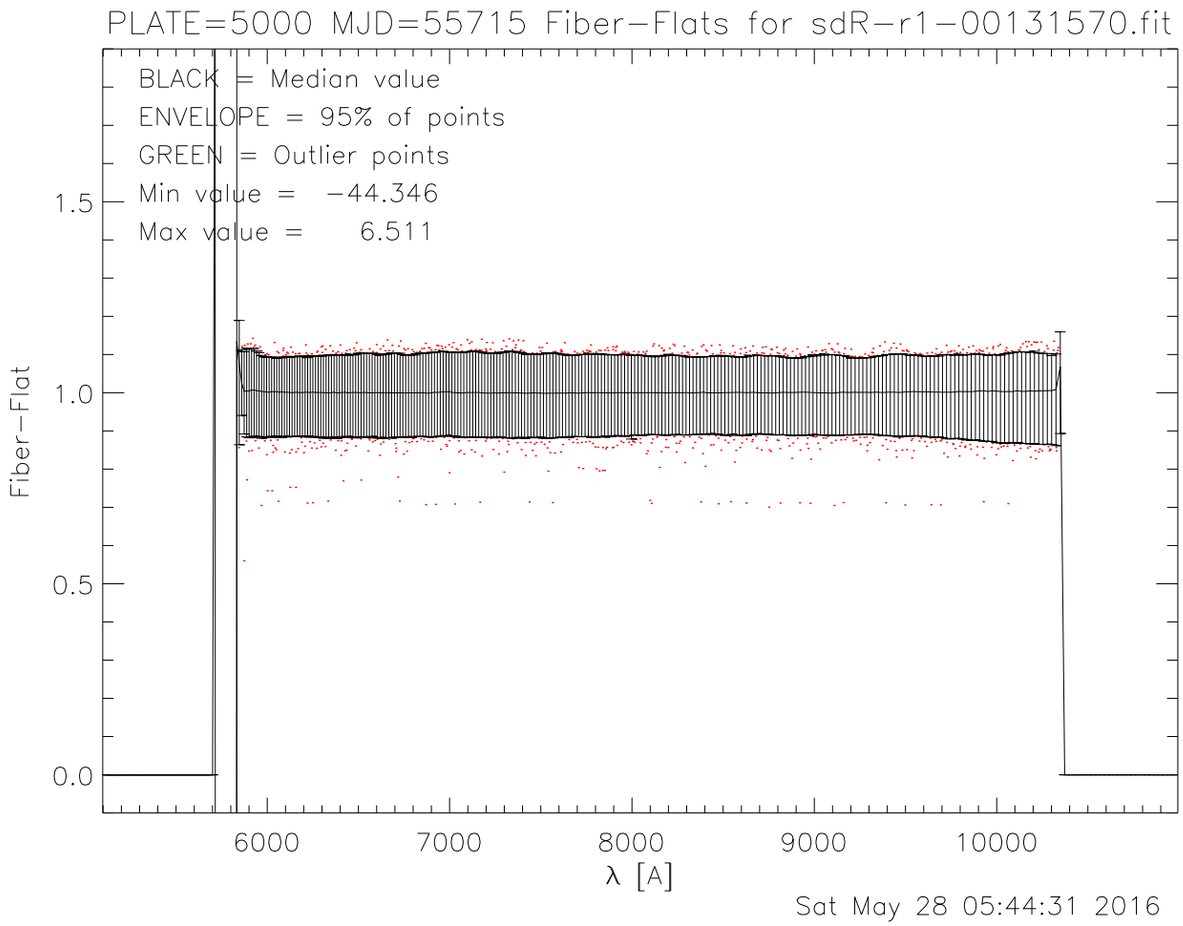
PLATE=5000 MJD=55715 Traces sdR-r1-00131570.fit

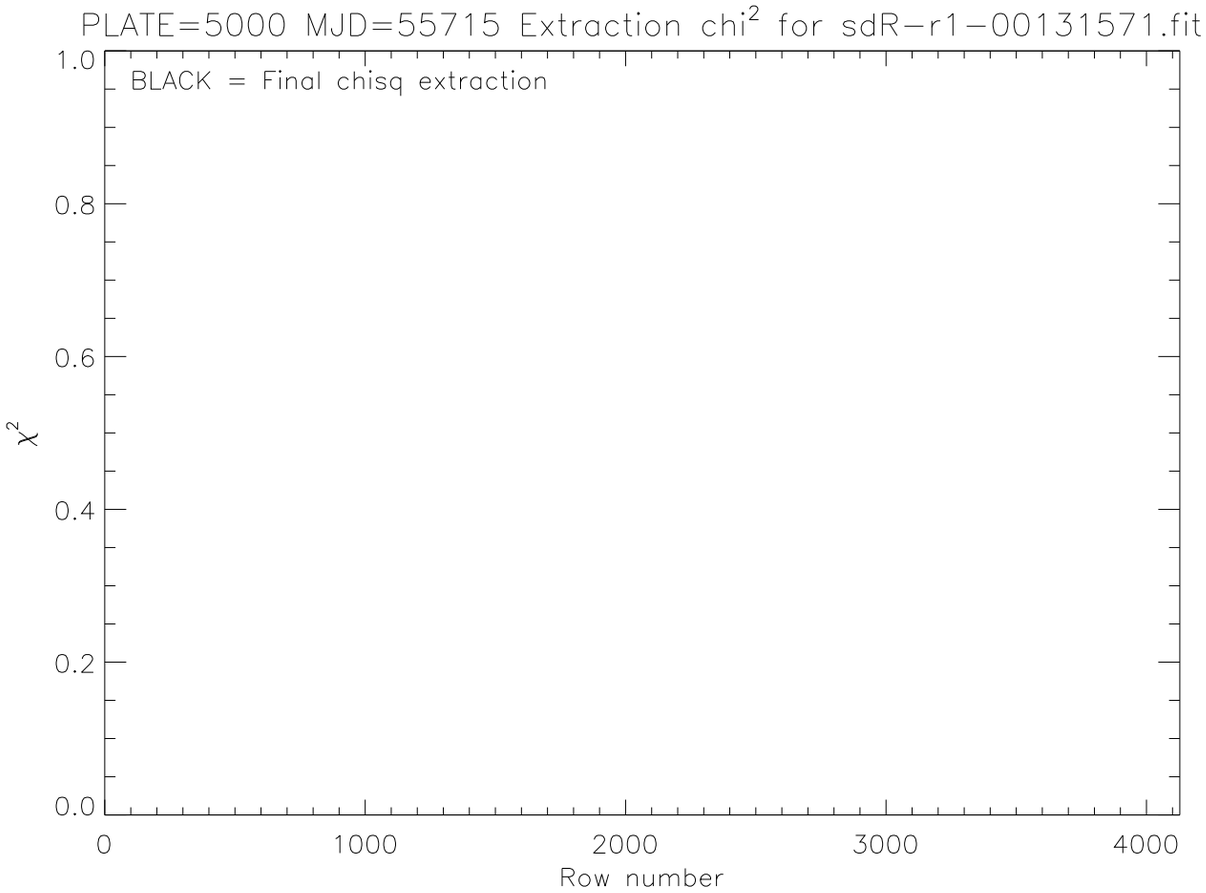


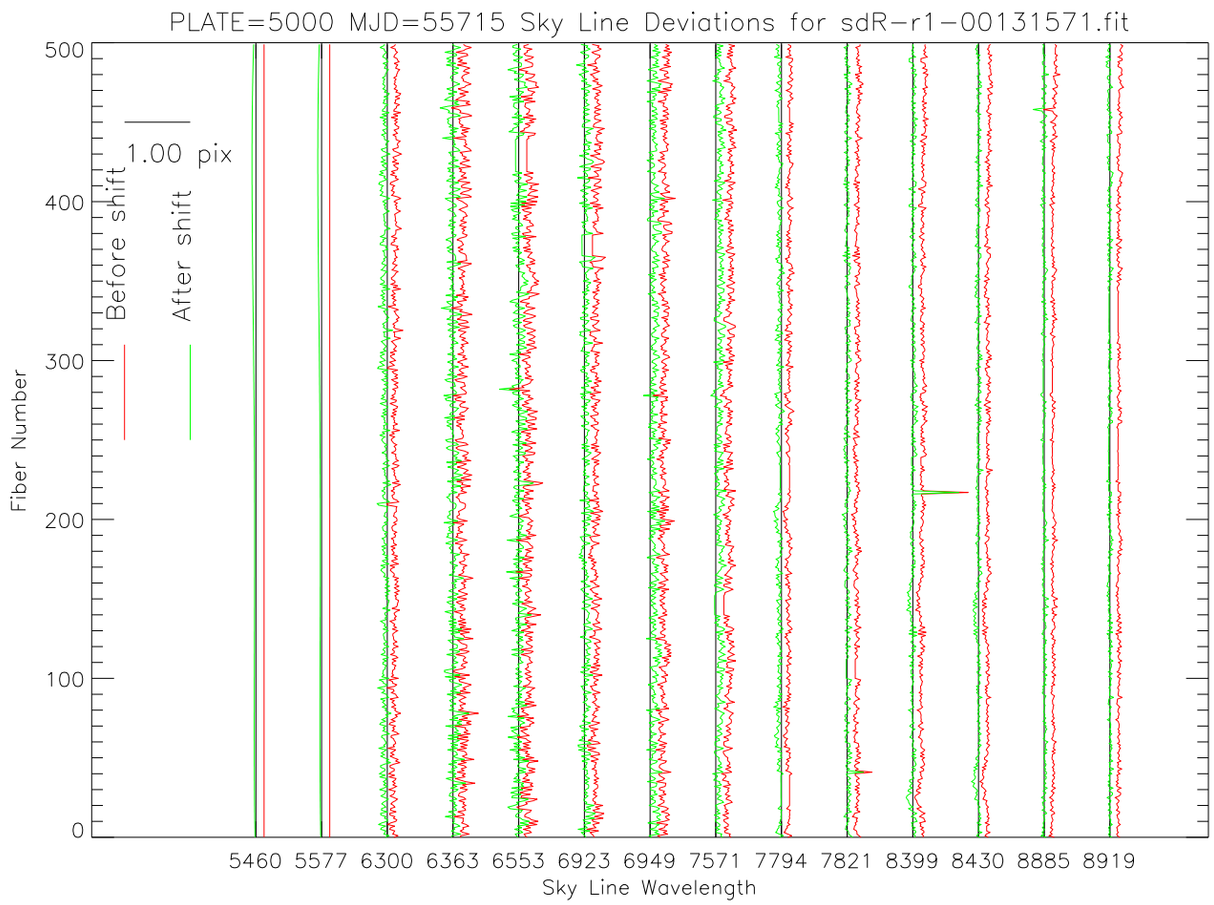

PLATE=5000 MJD=55715 flat extraction chi^2 for sdR-r1-00131570.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number

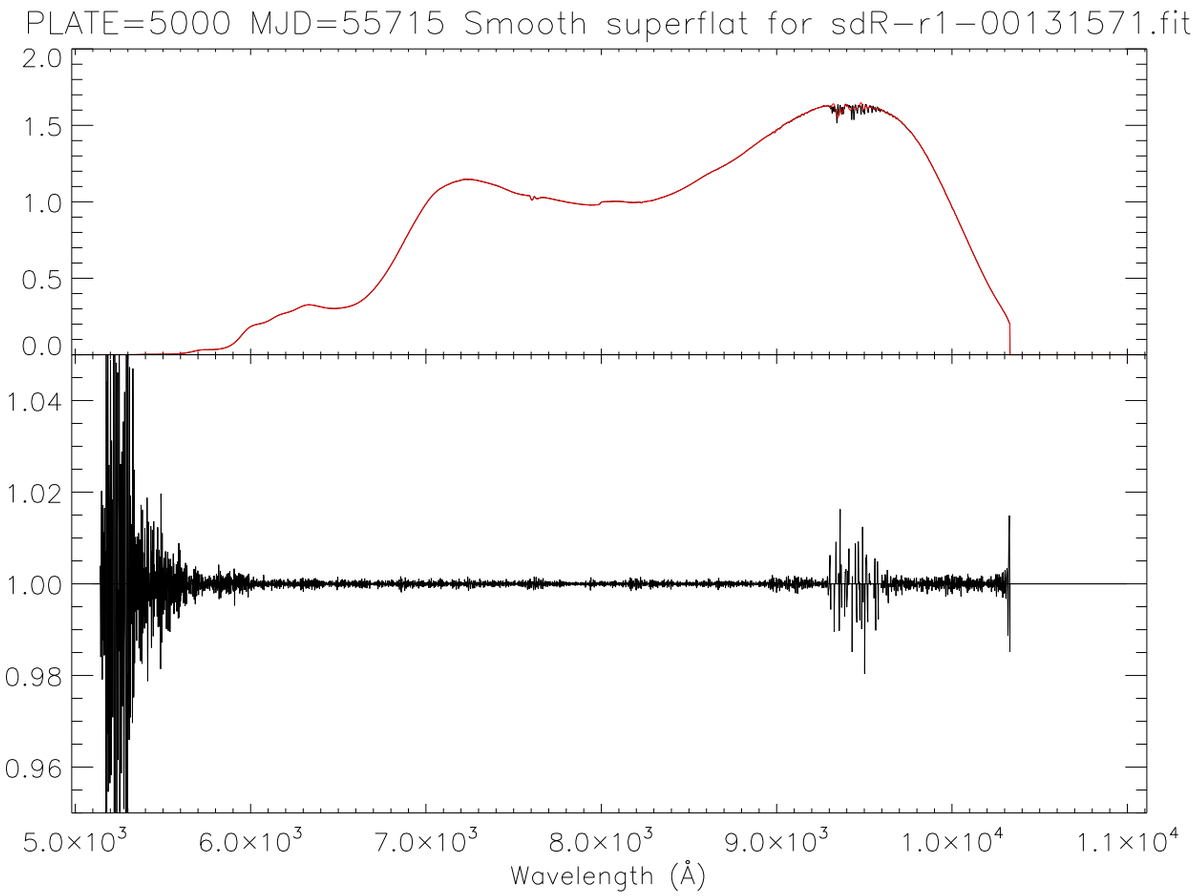

PLATE=5000 MJD=55715 Superflat sdR-r1-00131570.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
0.0
0.5
1.0
1.5
6000
7000
8000
9000
10000
λ [A]

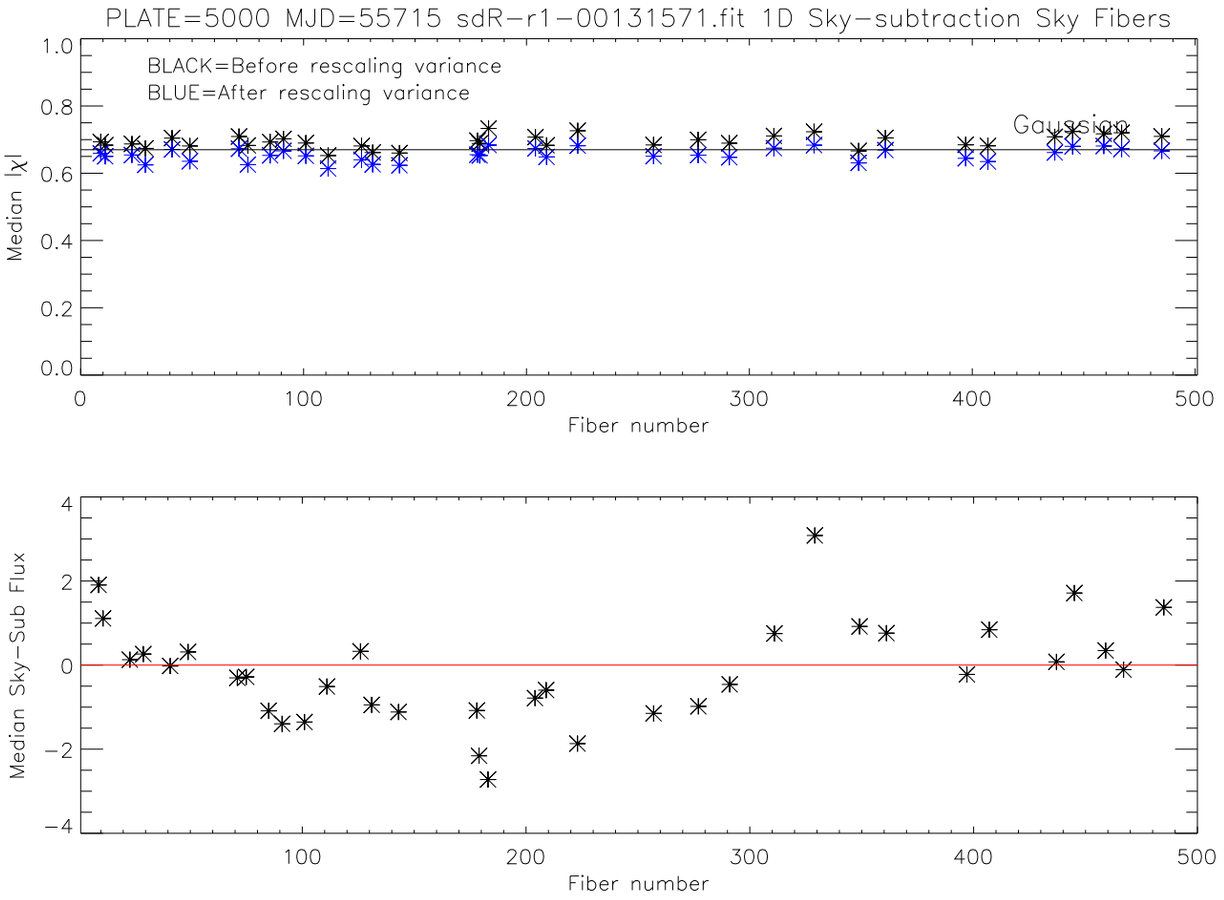

PLATE=5000 MJD=55715 Arcline Fit for sdR-r1-00131569.fit
Fiber Number
500
400
300
200
100
0
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A] + 300 * Deviation
Ncoeff = 6
Deviation [pix]
0.15
0.10
0.05
−0.00
−0.05
−0.10
−0.15
λ [A]
Sat May 28 05:44:17 2016

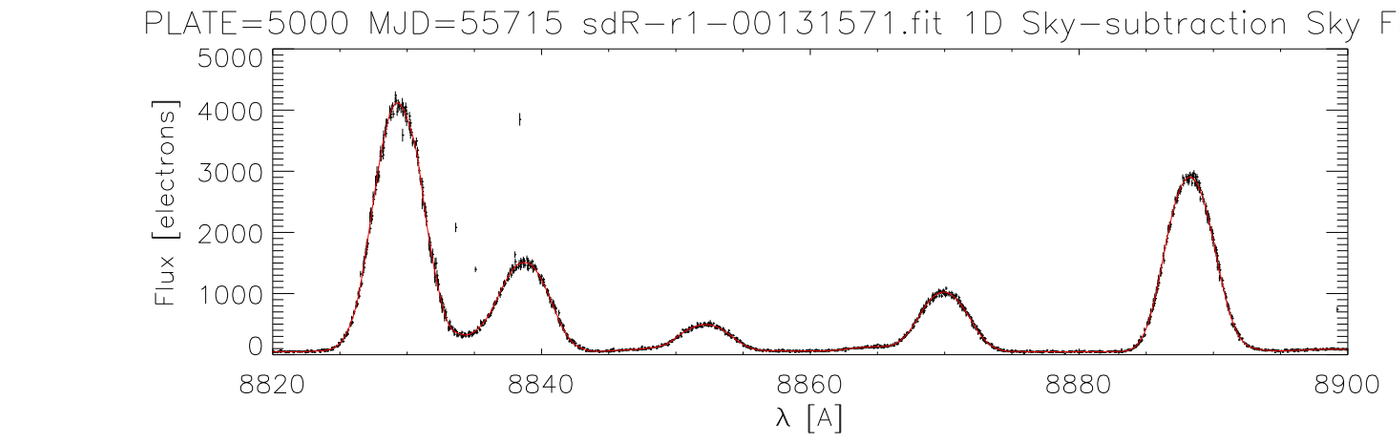

PLATE=5000 MJD=55715 Fiber−Flats for sdR−r1−00131570.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −44.346
Max value = 6.511
Fiber−Flat
1.5
1.0
0.5
0.0
6000
7000
8000
9000
10000
λ [A]
Sat May 28 05:44:31 2016

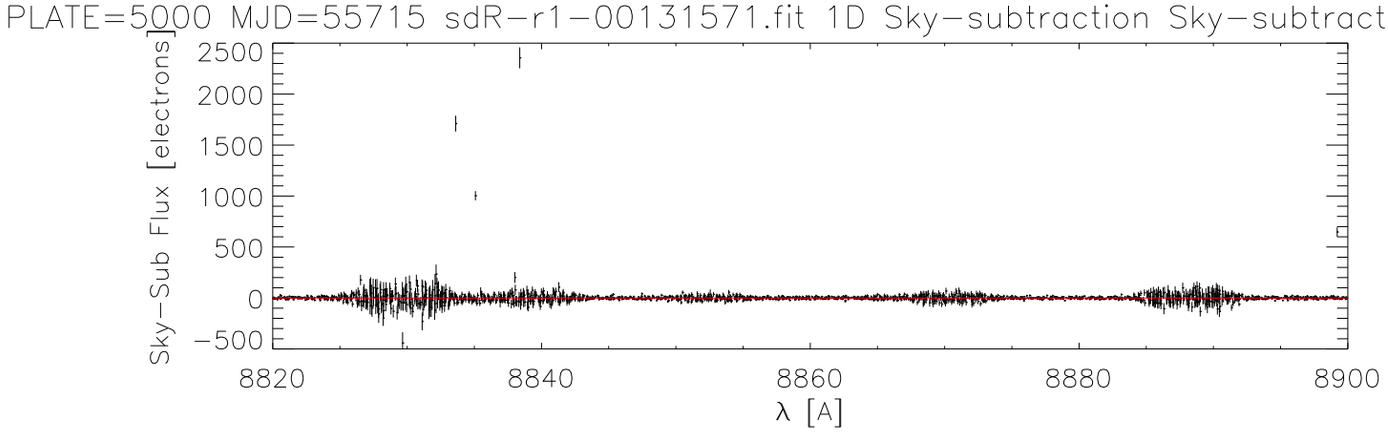

PLATE=5000 MJD=55715 Extraction chi^2 for sdR−r1−00131571.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=5000 MJD=55715 Sky Line Deviations for sdR-r1-00131571.fit
1.00 pix
Before shift
After shift
Fiber Number
0
100
200
300
400
500
5460 5577 6300 6363 6553 6923 6949 7571 7794 7821 8399 8430 8885 8919
Sky Line Wavelength

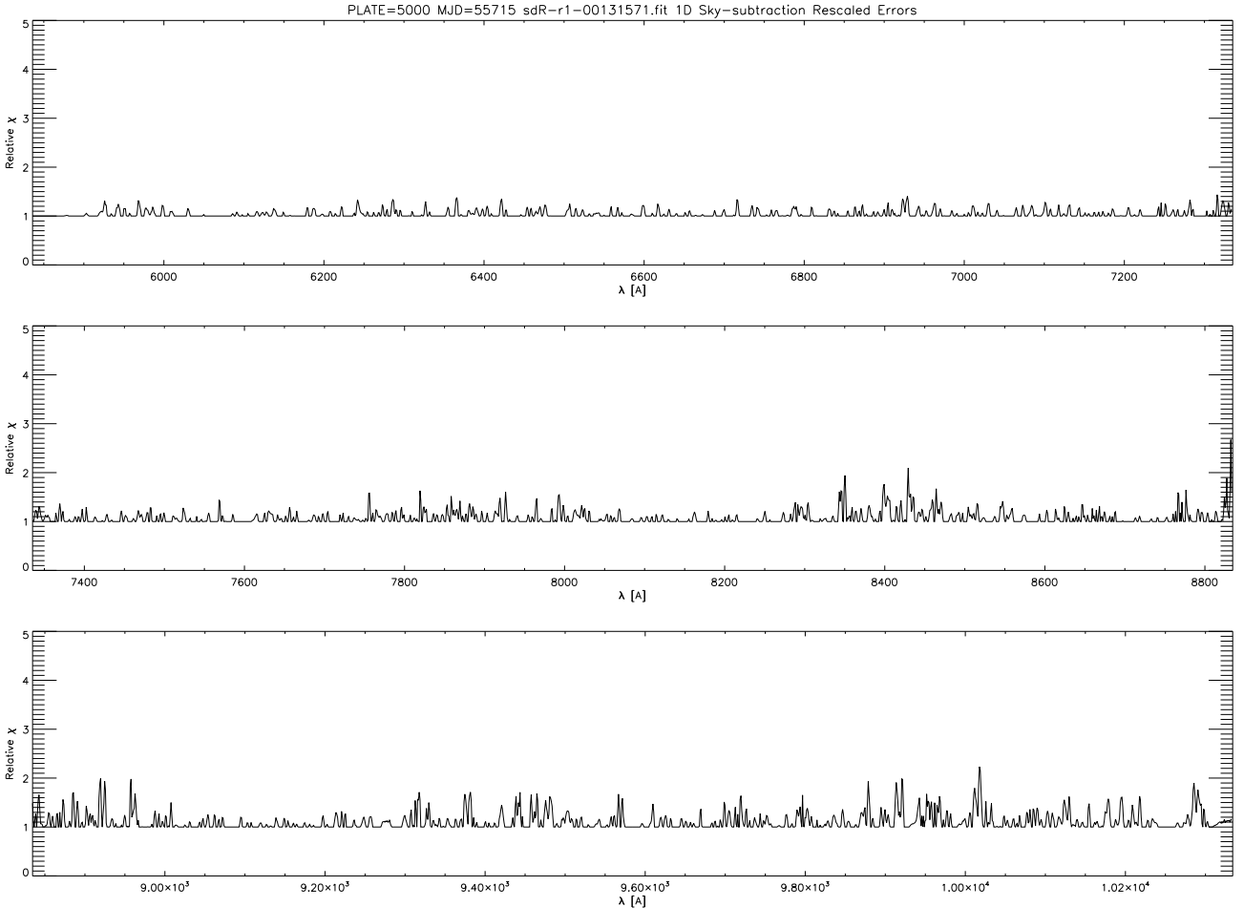

PLATE=5000 MJD=55715 Smooth superflat for sdR-r1-00131571.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

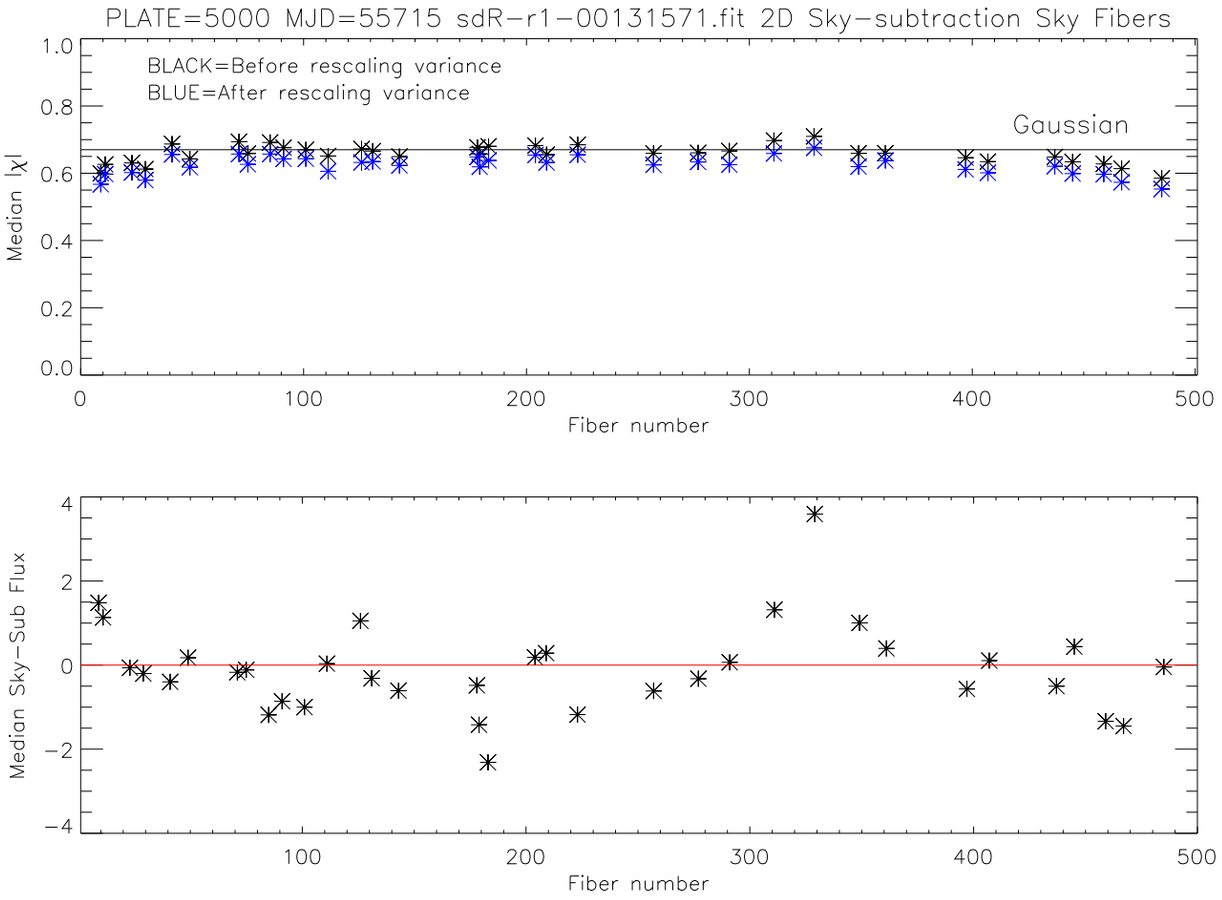

PLATE=5000 MJD=55715 sdR-r1-00131571.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

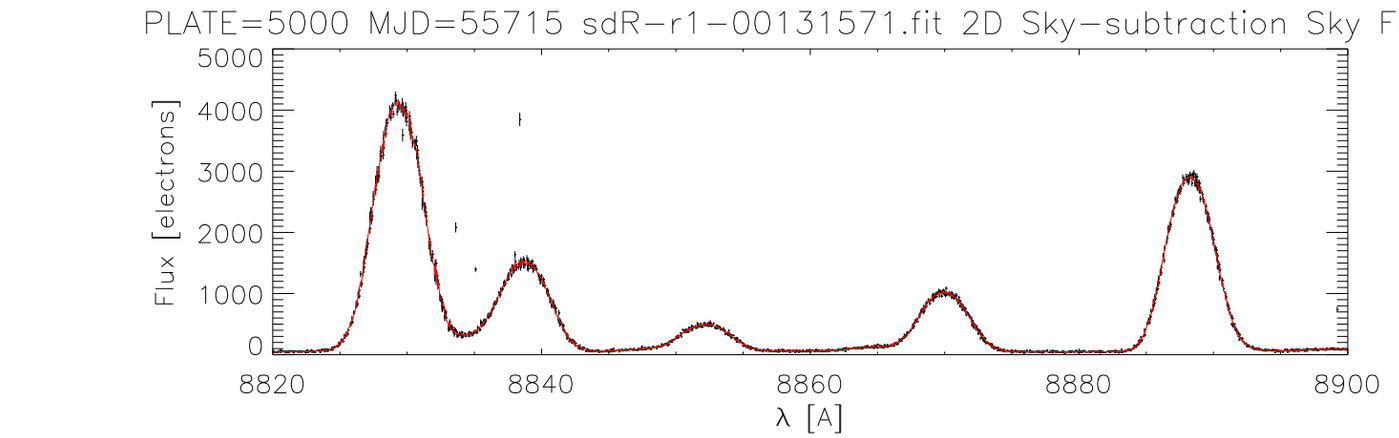

PLATE=5000 MJD=55715 sdR-r1-00131571.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

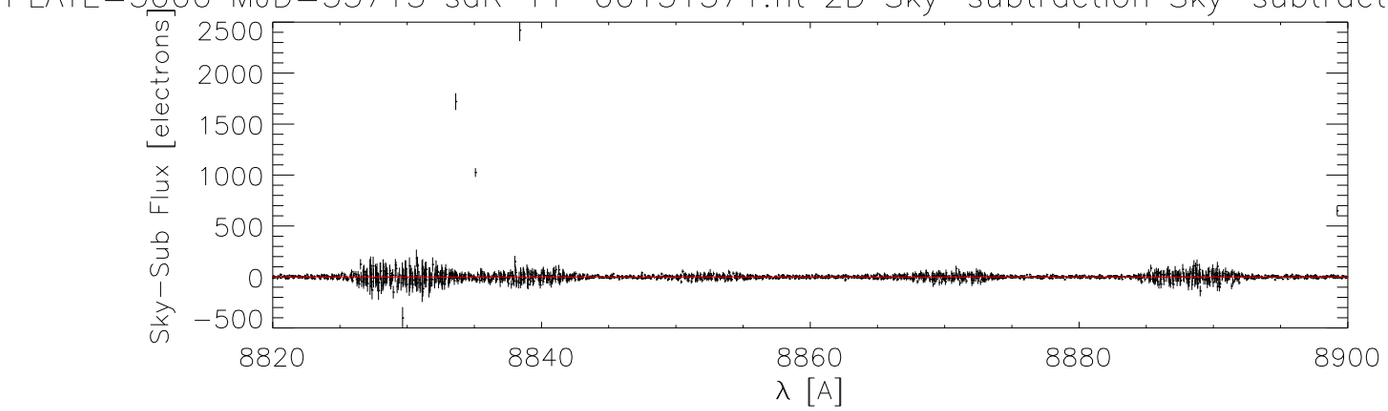

PLATE=5000 MJD=55715 sdR-r1-00131571.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
2500
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 35

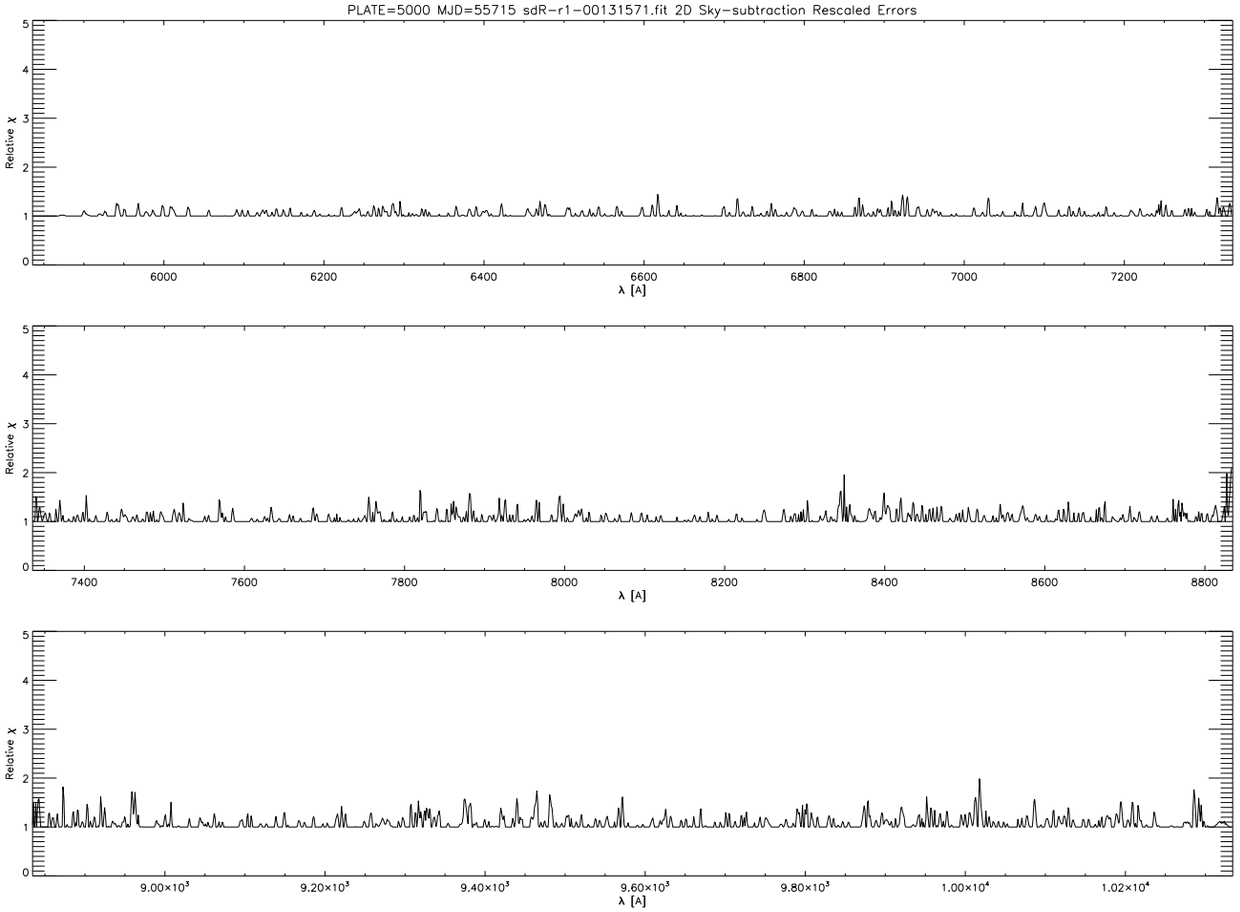


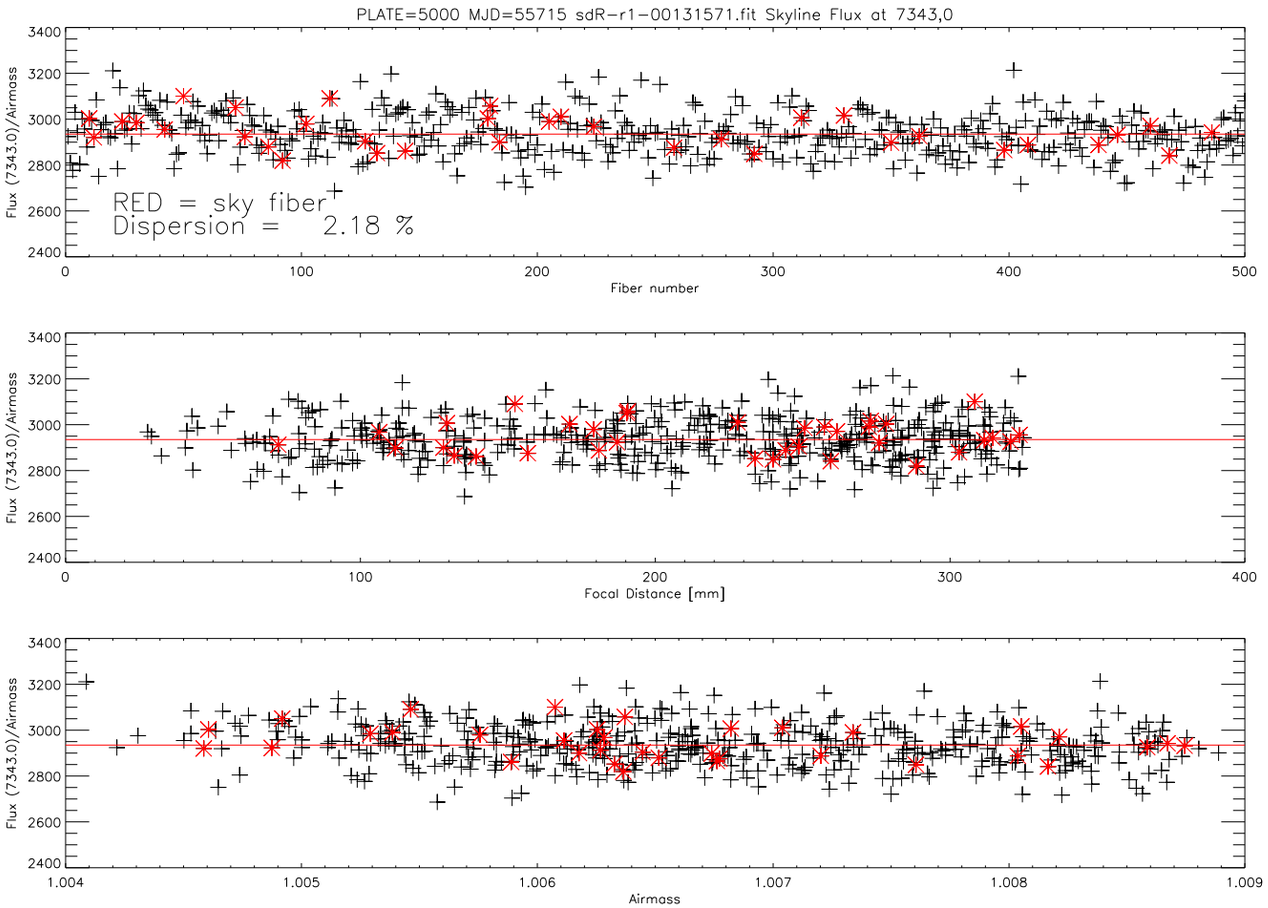

PLATE=5000 MJD=55715 sdR-r1-00131571.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

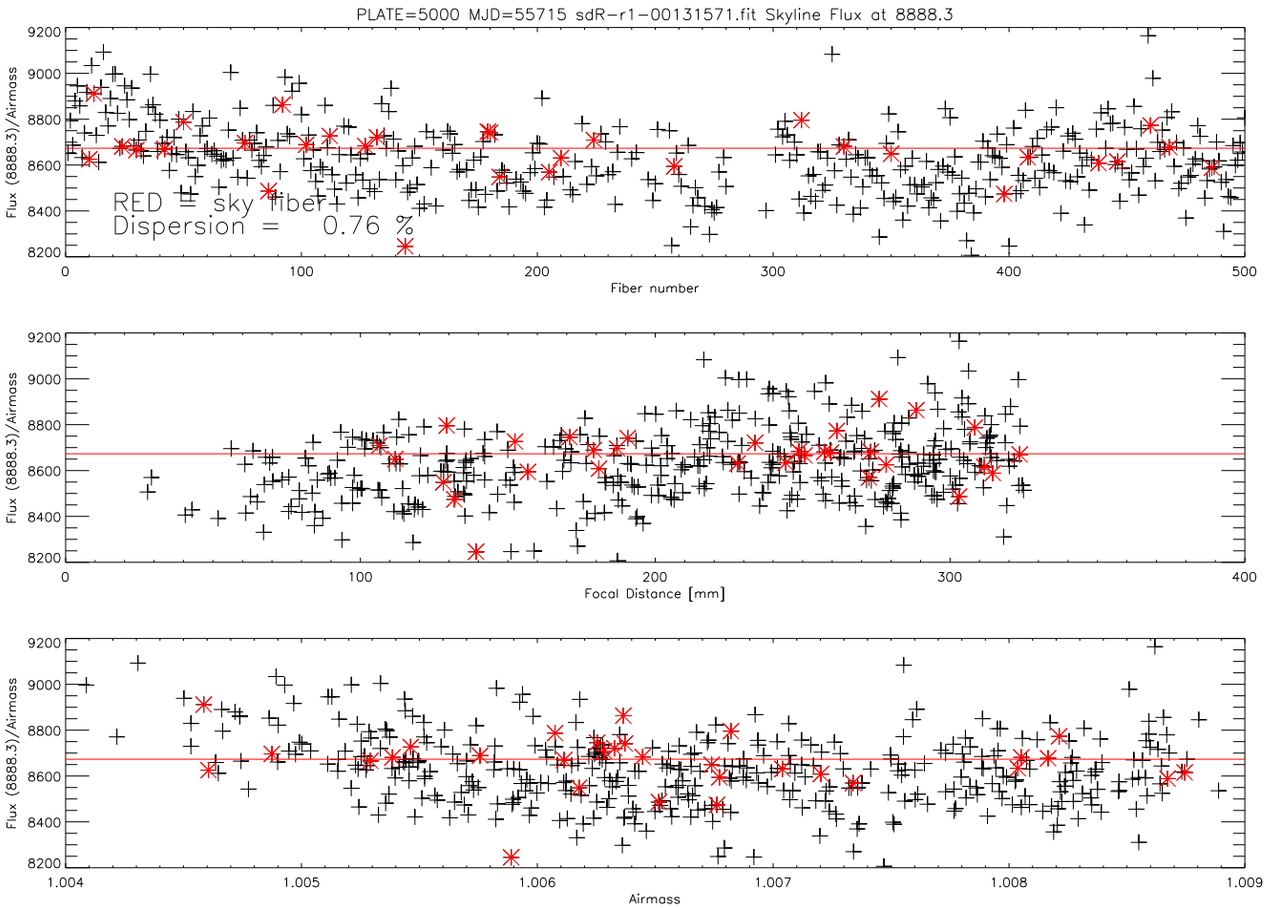

PLATE=5000 MJD=55715 sdR-r1-00131571.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

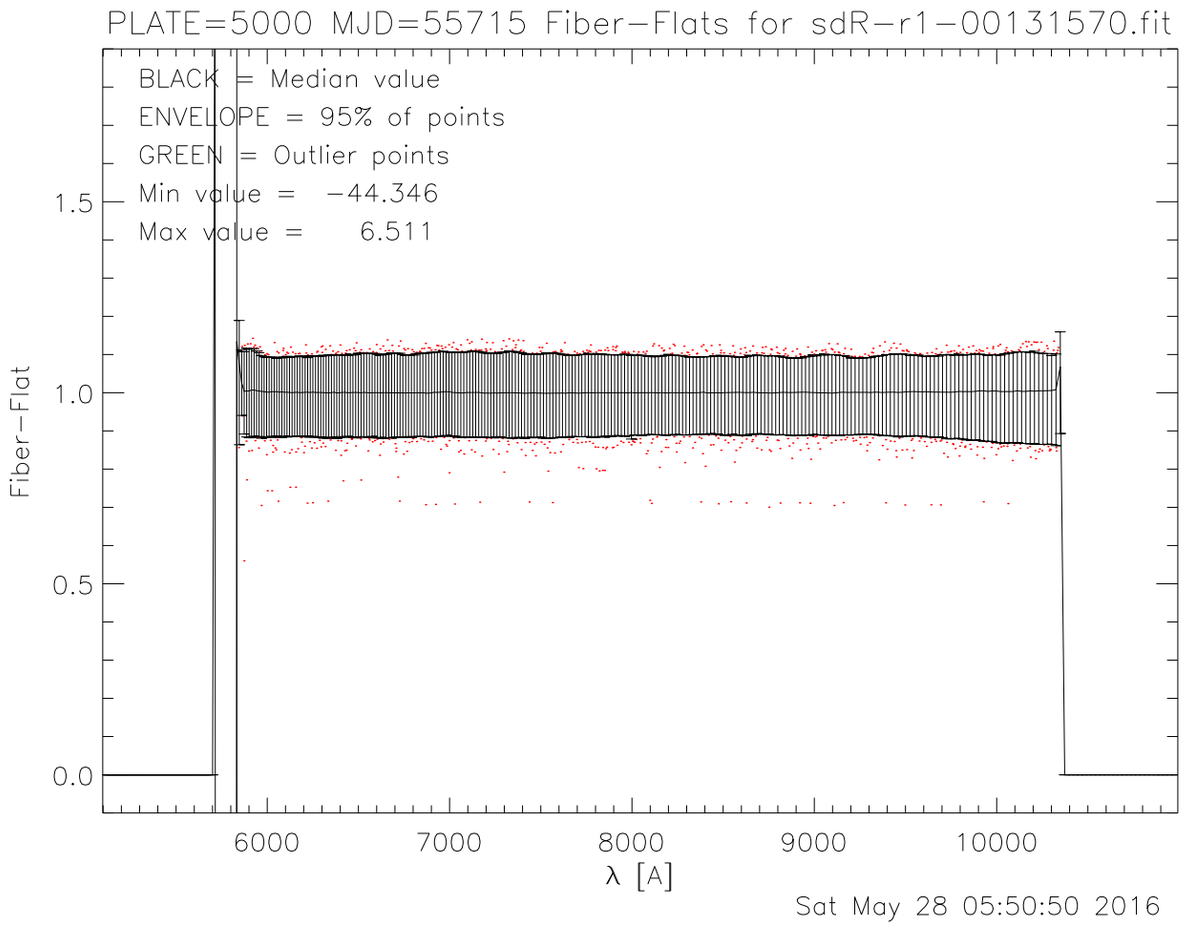

PLATE=5000 MJD=55715 sdR-r1-00131571.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
2500
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

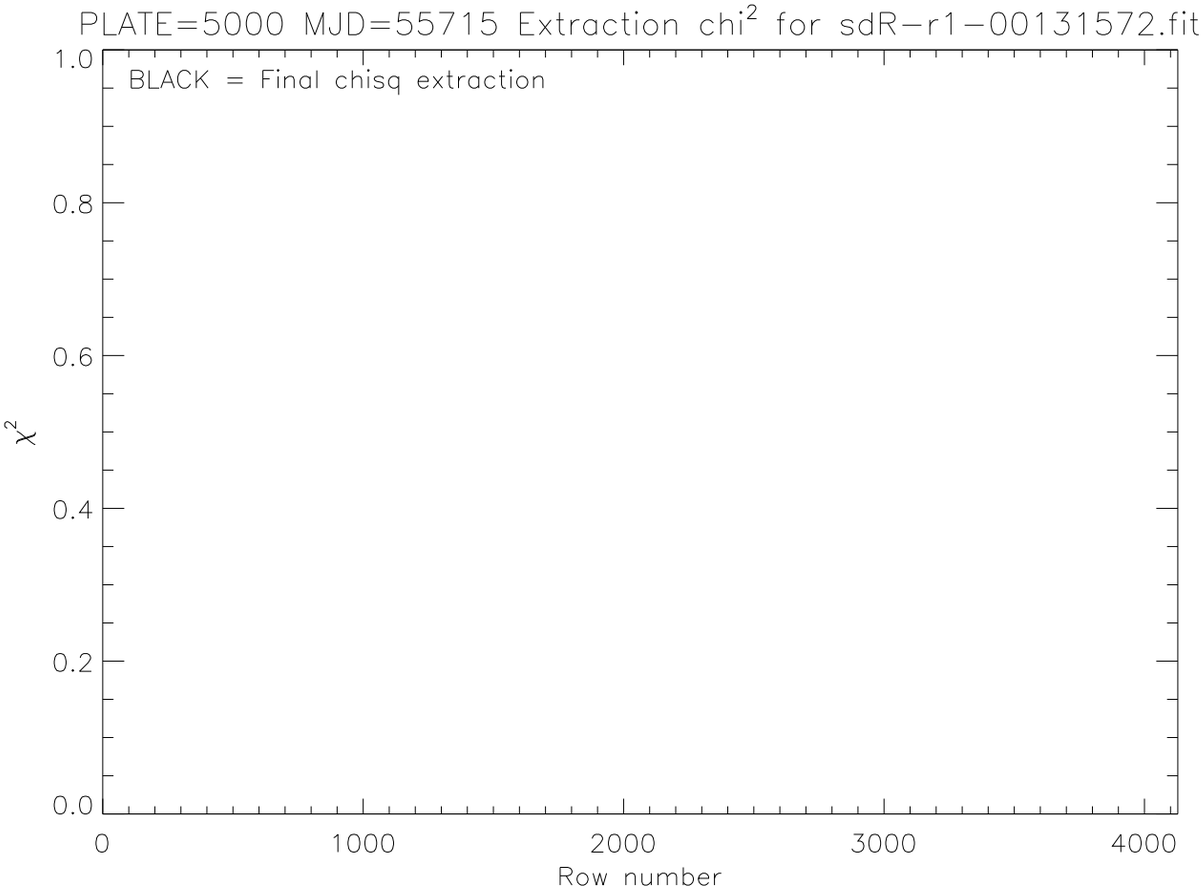
Number of sky fibers = 35

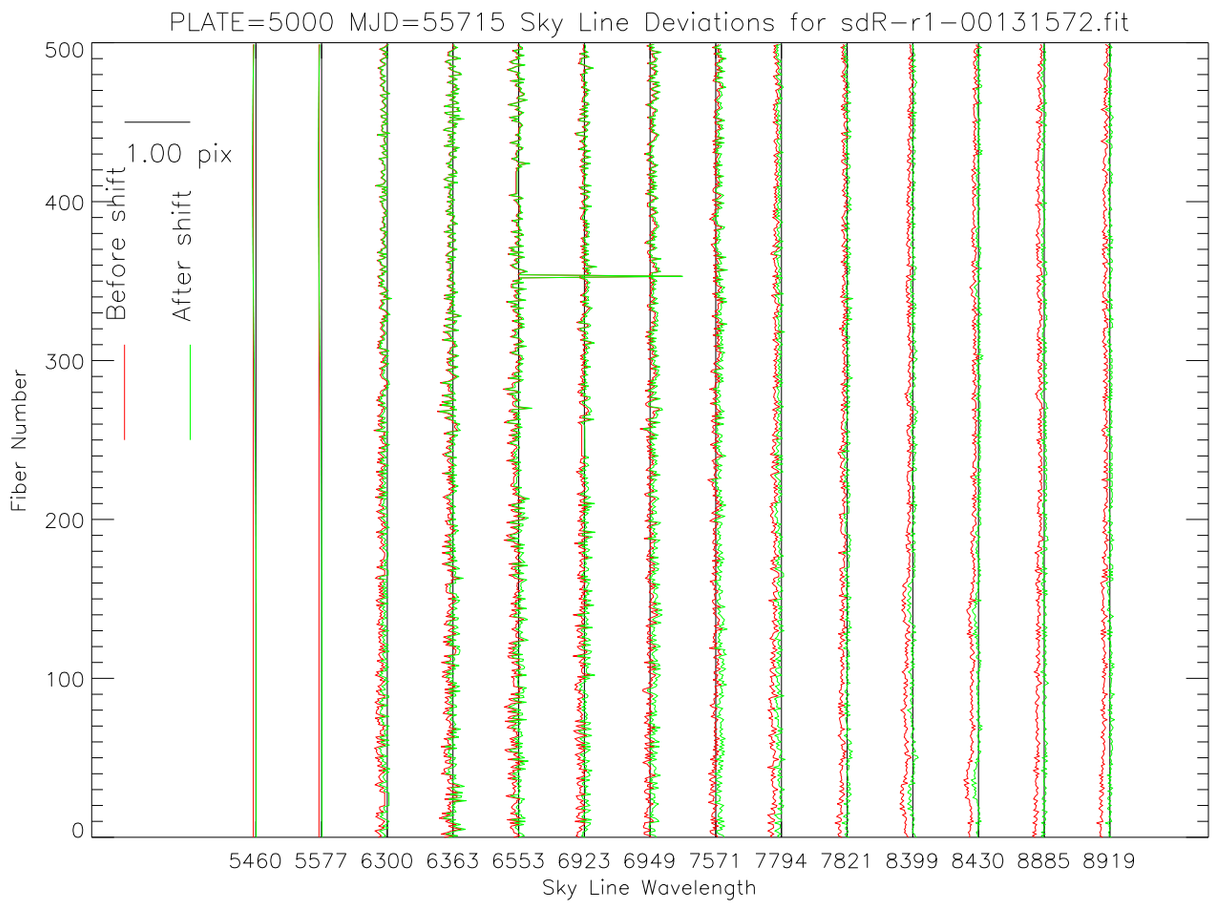


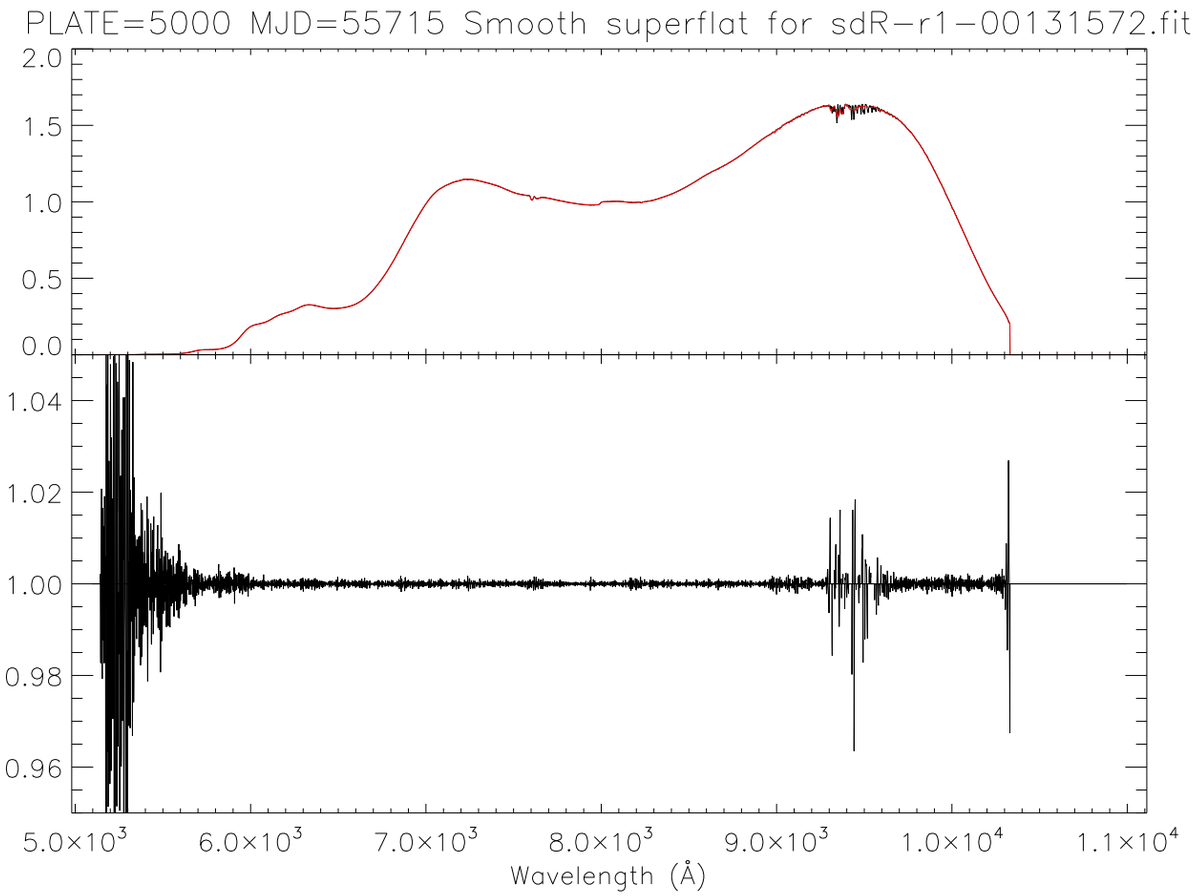

PLATE=5000 MJD=55715 sdR-r1-00131571.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.18 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

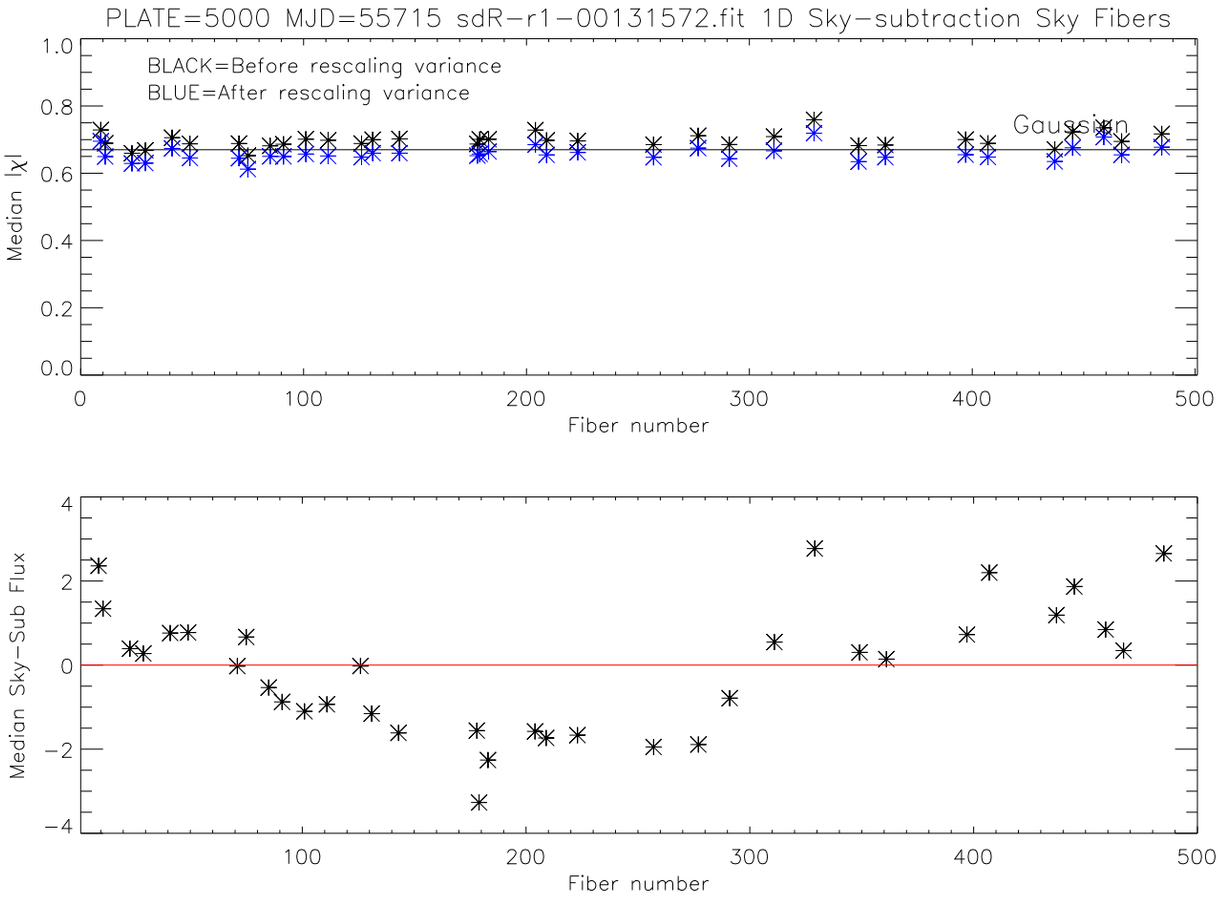

PLATE=5000 MJD=55715 sdR-r1-00131571.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 0.76 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

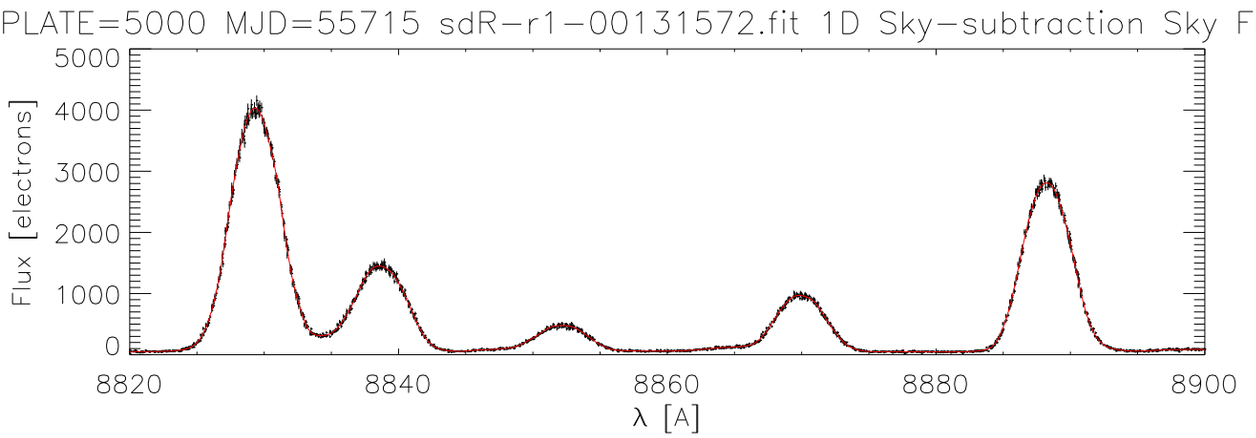

PLATE=5000 MJD=55715 Fiber−Flats for sdR−r1−00131570.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −44.346
Max value = 6.511
Fiber−Flat
1.5
1.0
0.5
0.0
6000
7000
8000
9000
10000
λ [A]
Sat May 28 05:50:50 2016

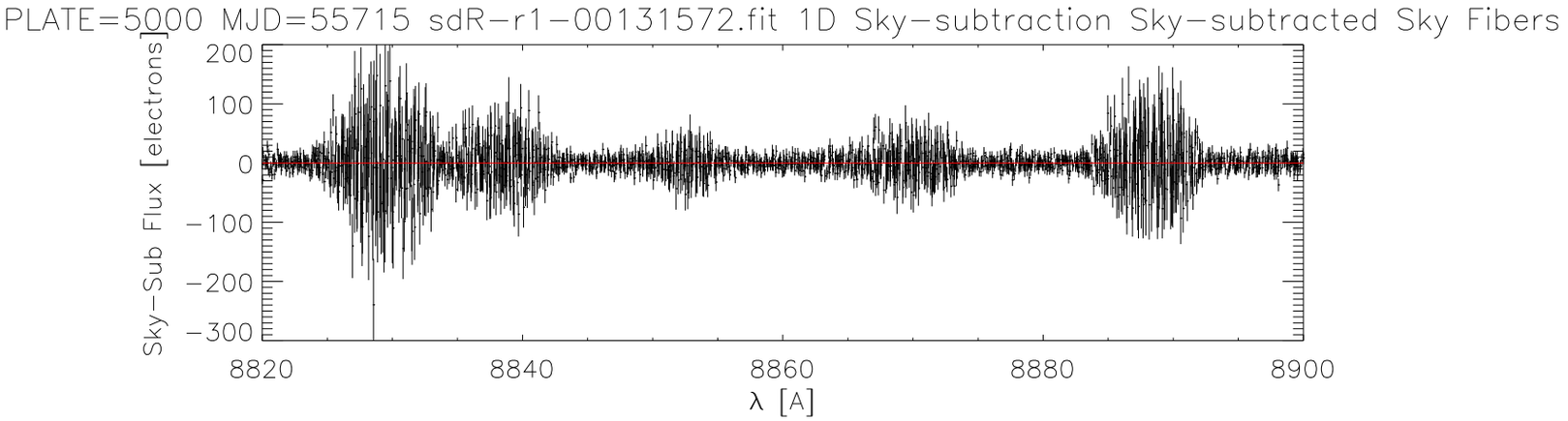

PLATE=5000 MJD=55715 Extraction chi^2 for sdR−r1−00131572.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=5000 MJD=55715 Sky Line Deviations for sdR-r1-00131572.fit
1.00 pix
Before shift
After shift
Fiber Number
0
100
200
300
400
500
5460 5577 6300 6363 6553 6923 6949 7571 7794 7821 8399 8430 8885 8919
Sky Line Wavelength

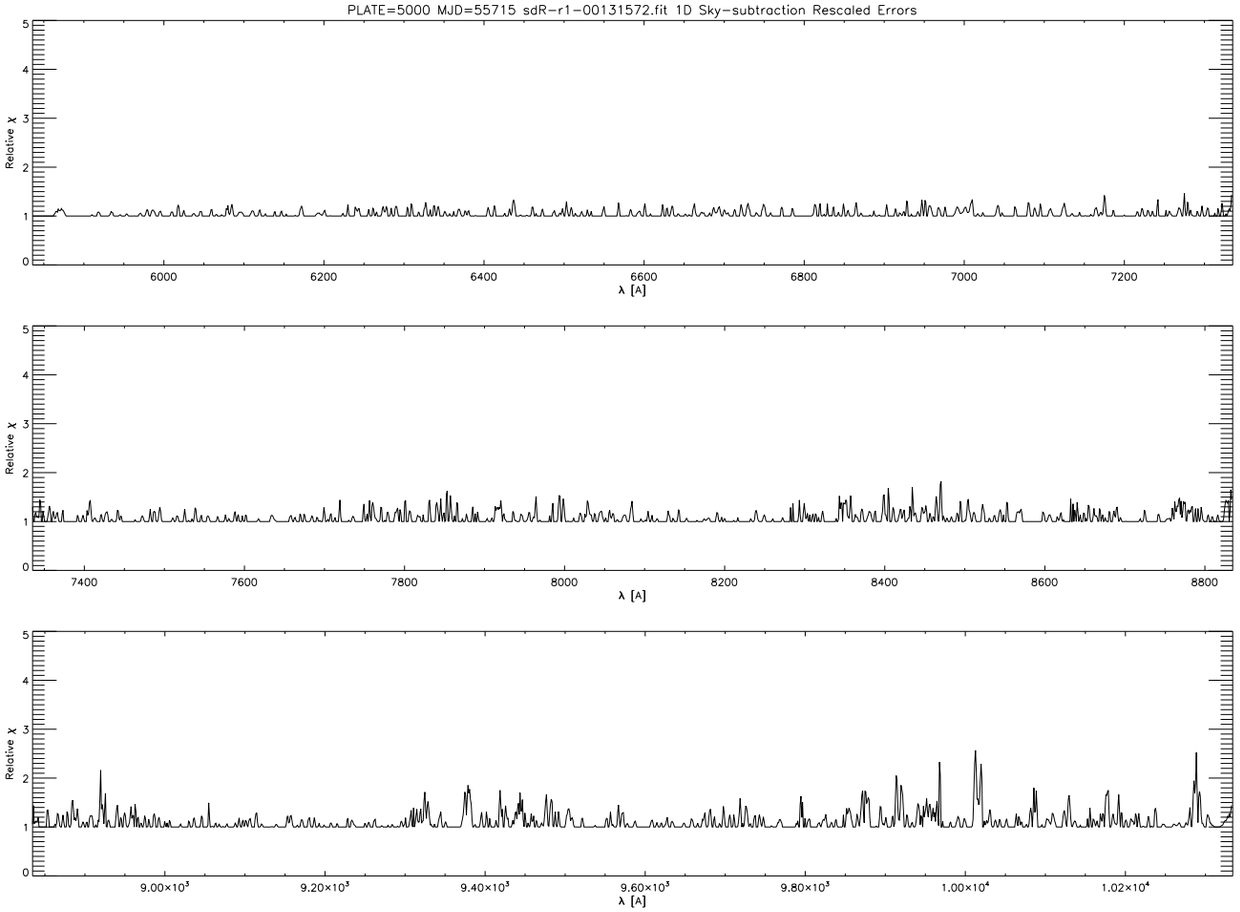

PLATE=5000 MJD=55715 Smooth superflat for sdR-r1-00131572.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

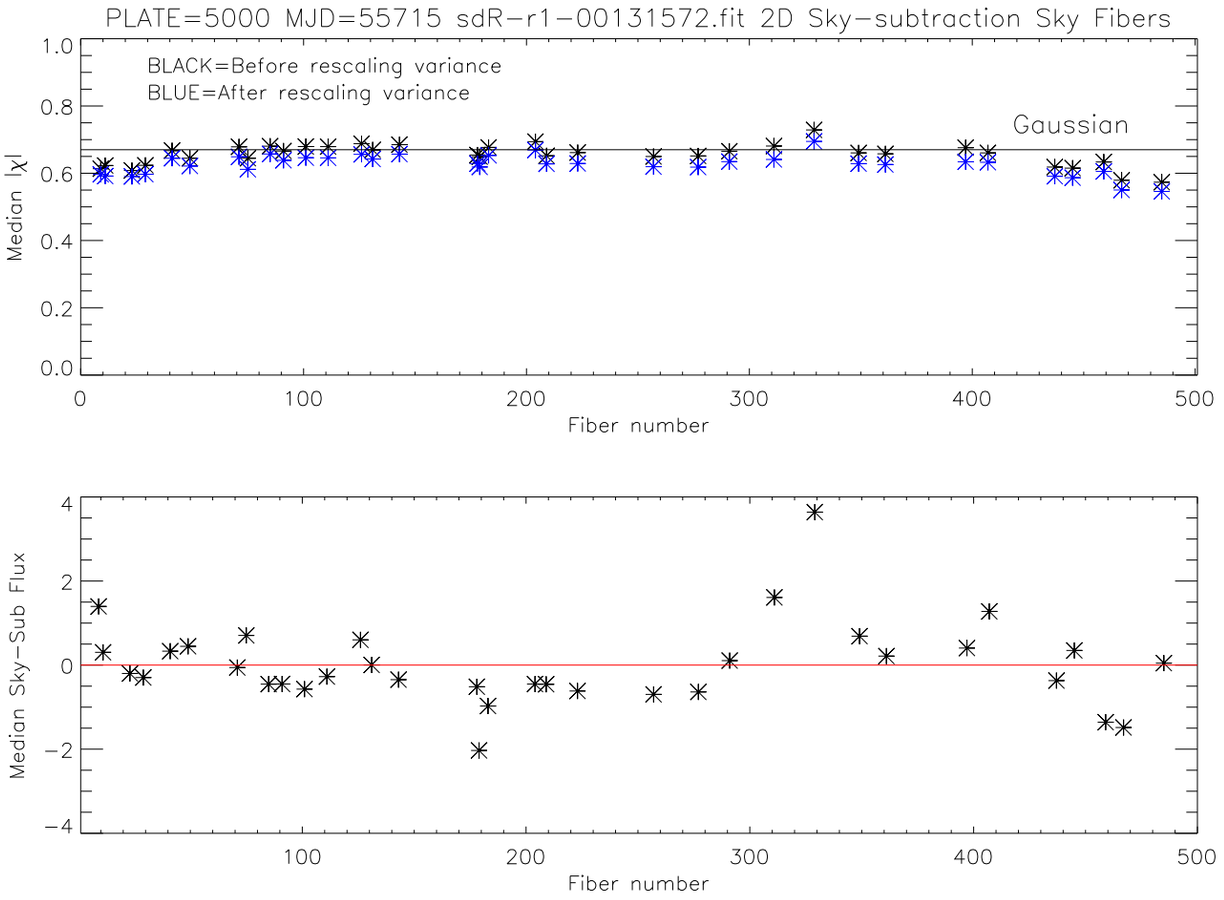

PLATE=5000 MJD=55715 sdR-r1-00131572.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

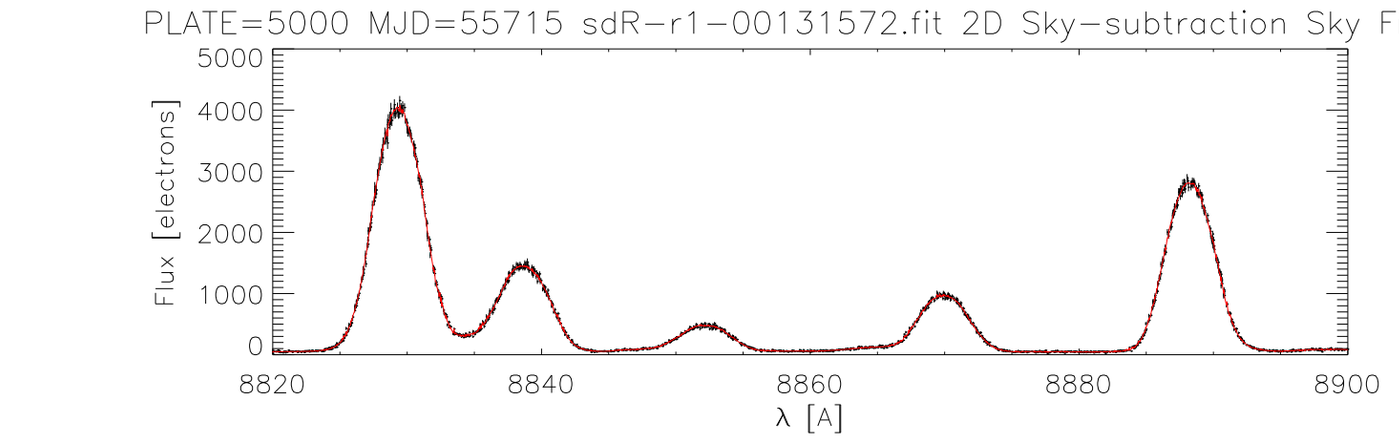

PLATE=5000 MJD=55715 sdR-r1-00131572.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

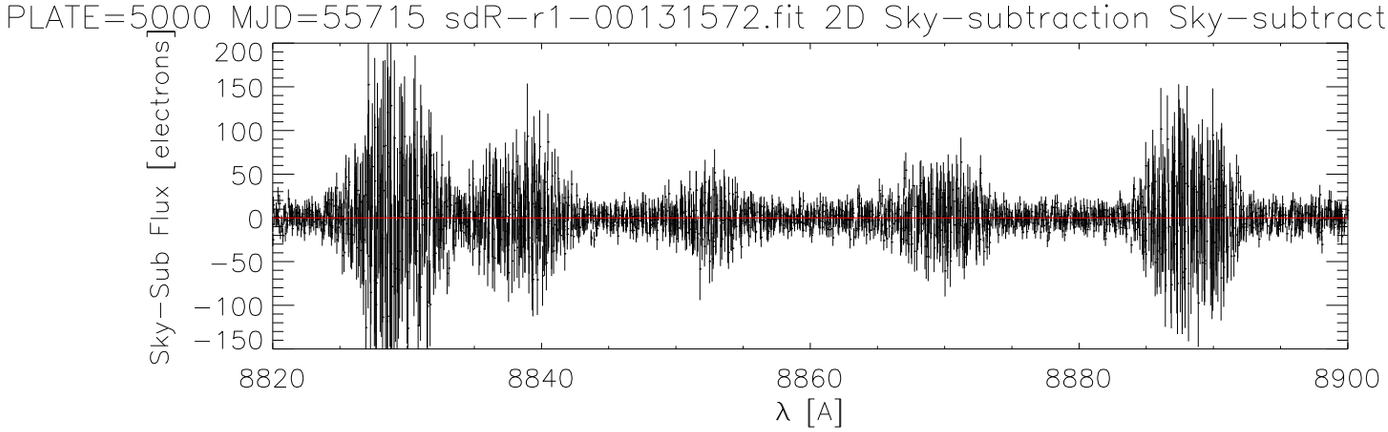

PLATE=5000 MJD=55715 sdR-r1-00131572.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 35

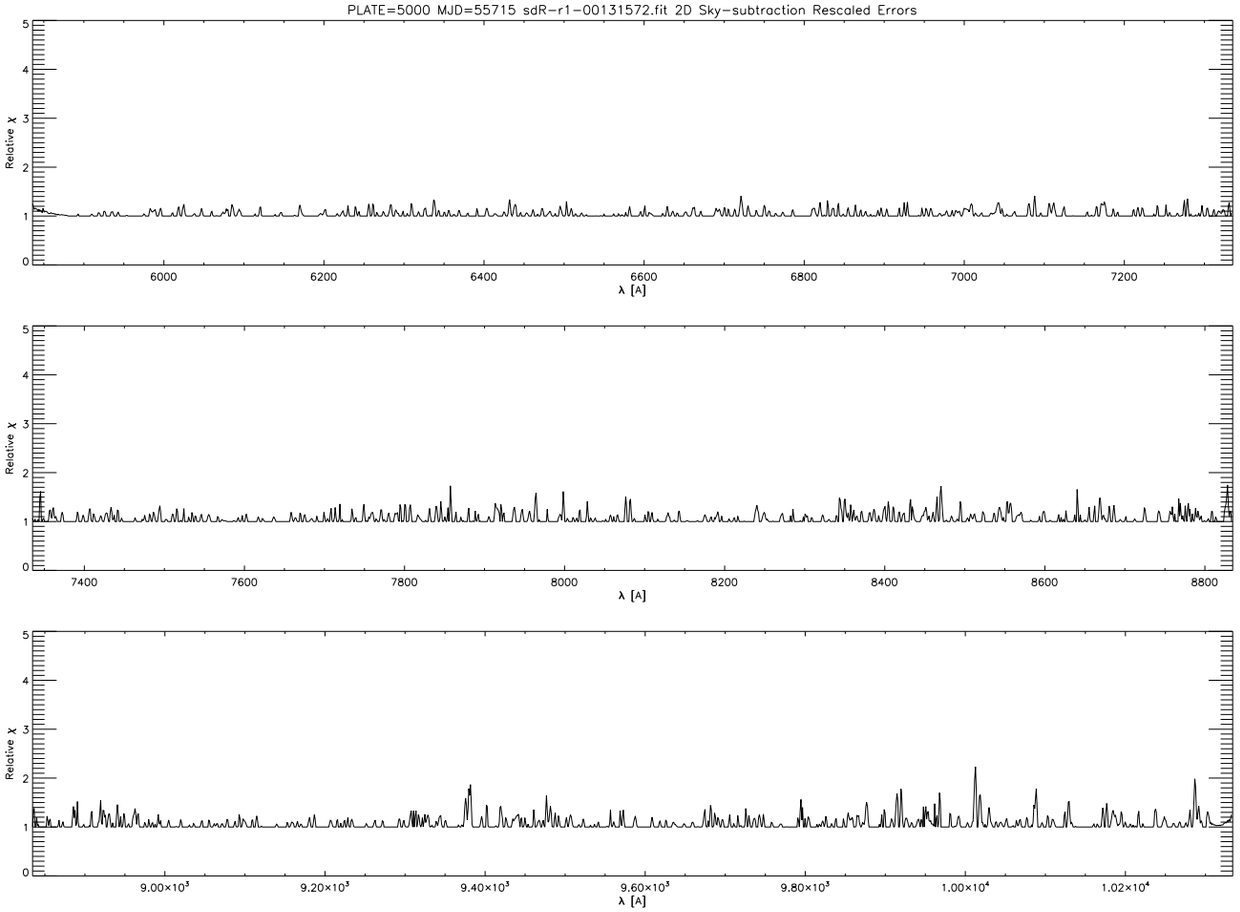


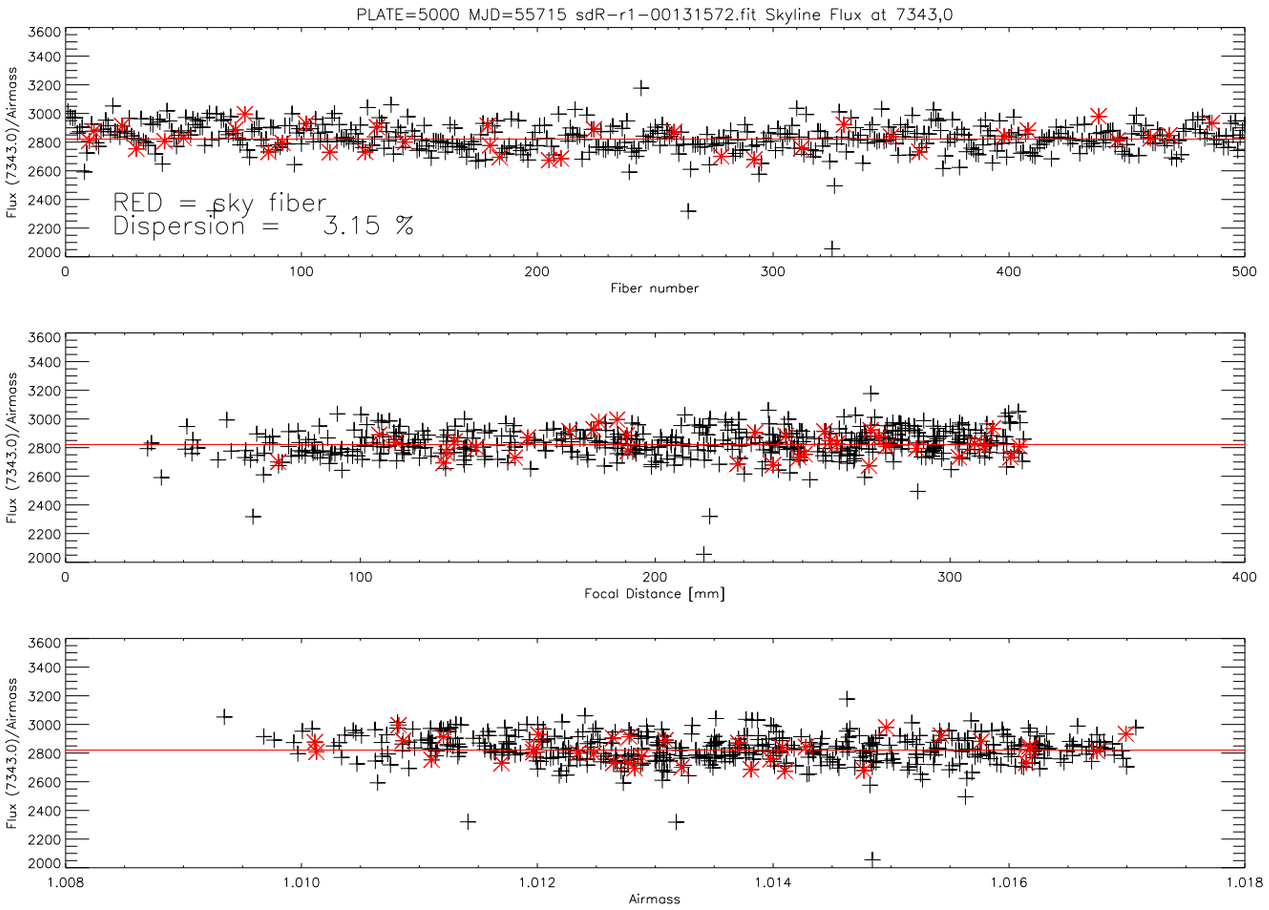

PLATE=5000 MJD=55715 sdR-r1-00131572.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

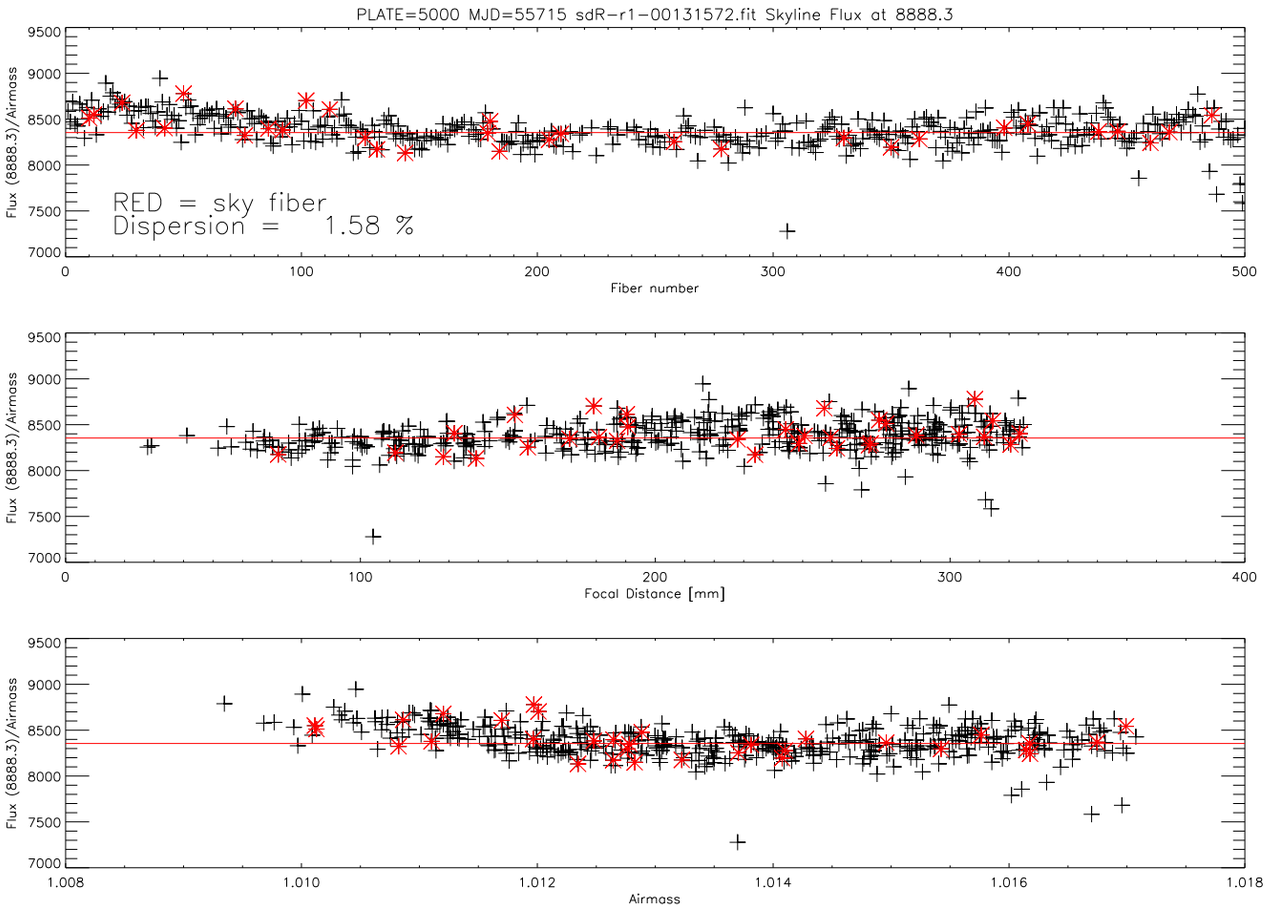

PLATE=5000 MJD=55715 sdR-r1-00131572.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

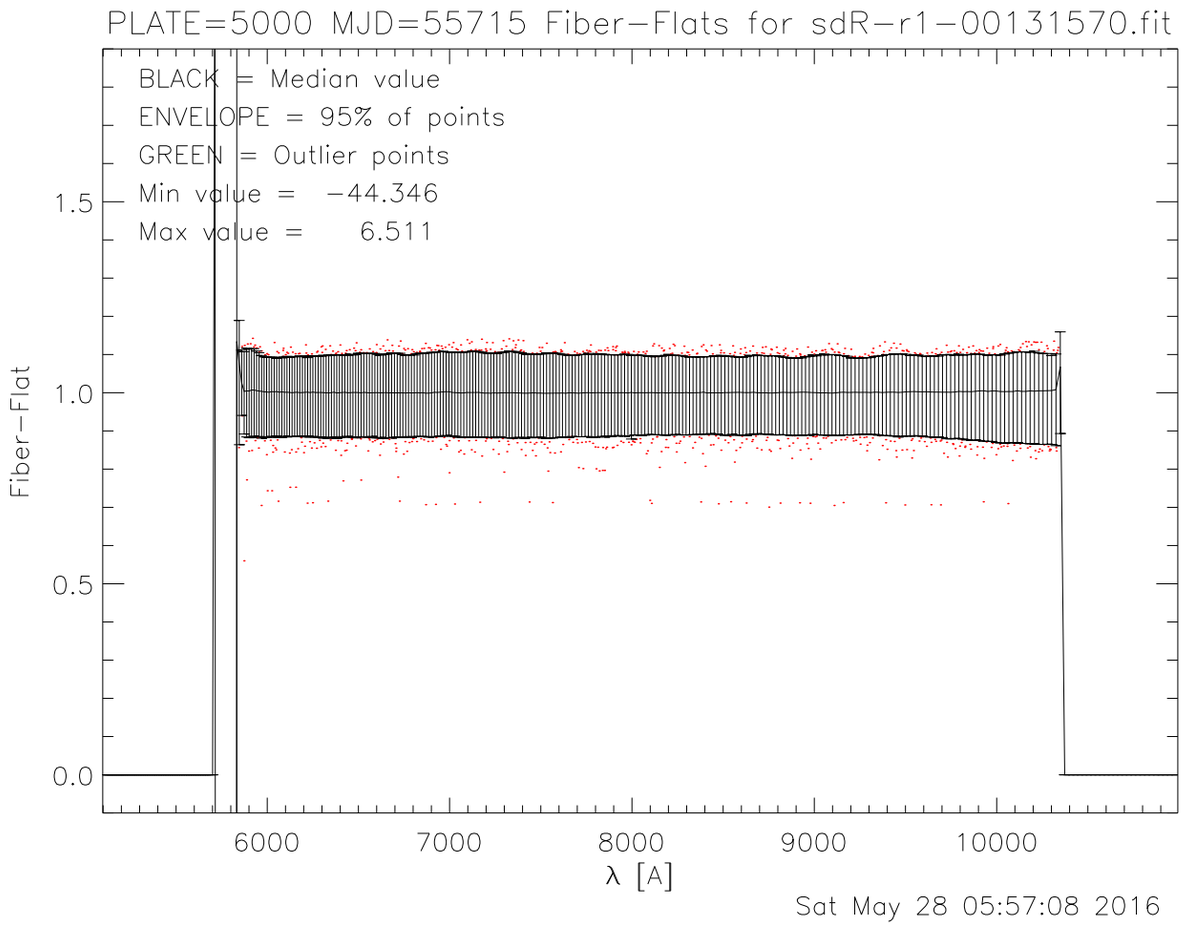

PLATE=5000 MJD=55715 sdR-r1-00131572.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
200
150
100
50
0
-50
-100
-150
8820
8840
8860
8880
8900
λ [A]

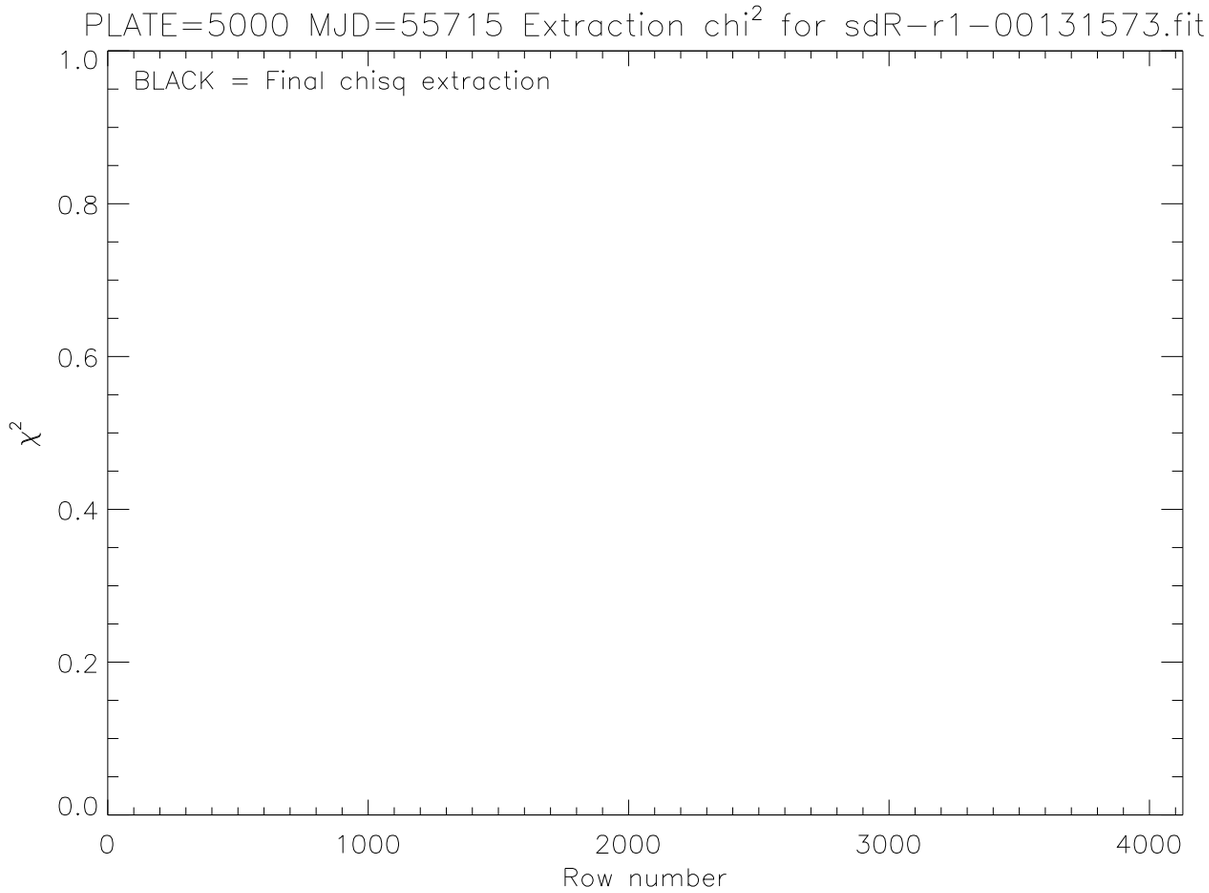
Number of sky fibers = 35

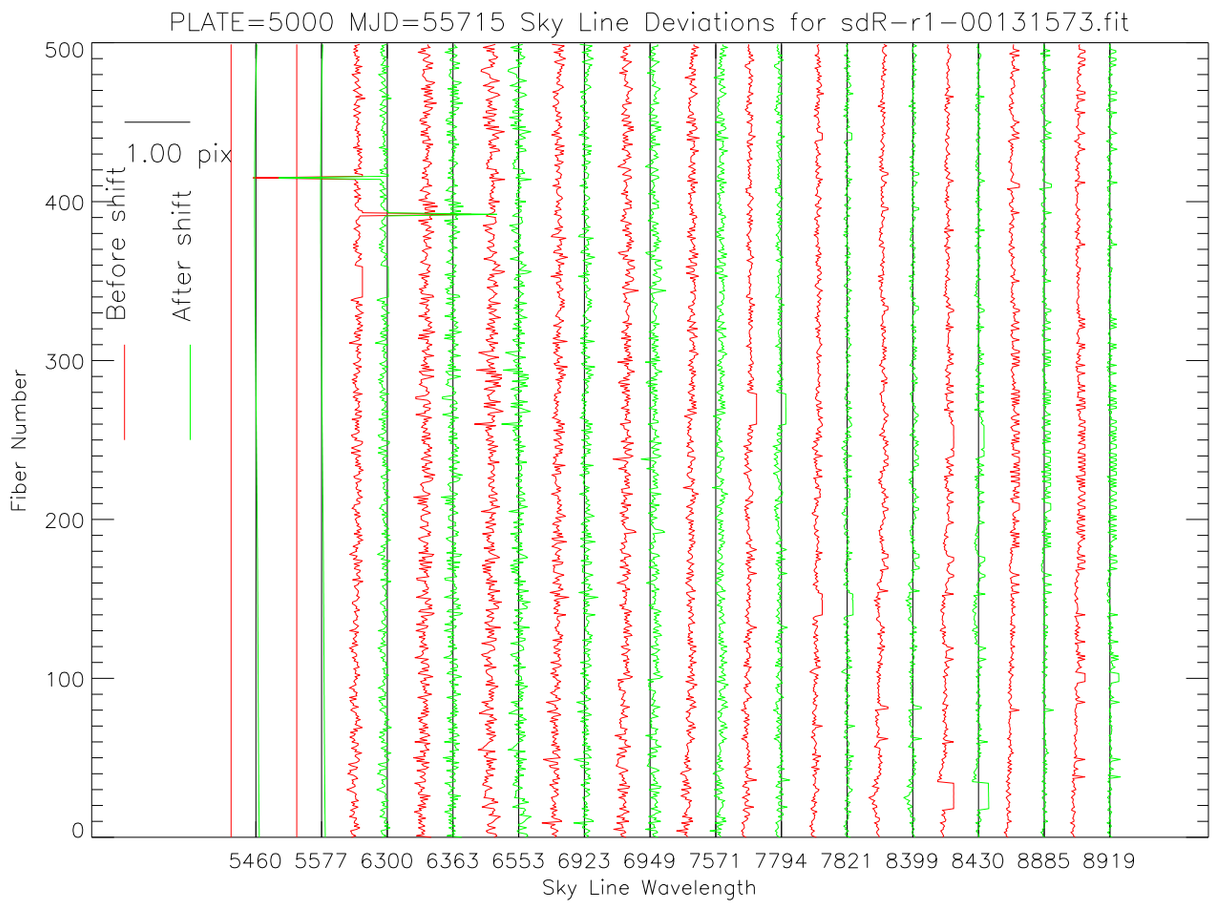


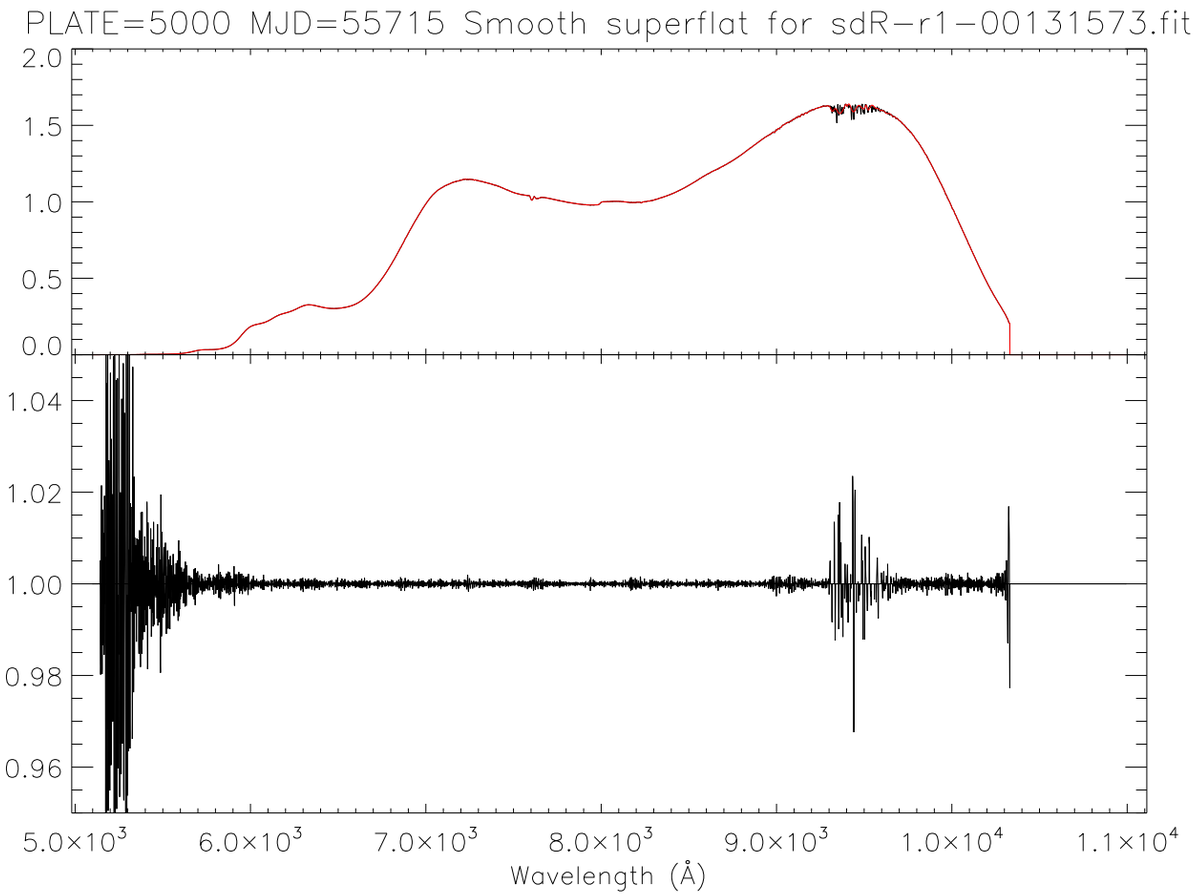

PLATE=5000 MJD=55715 sdR-r1-00131572.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.15 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

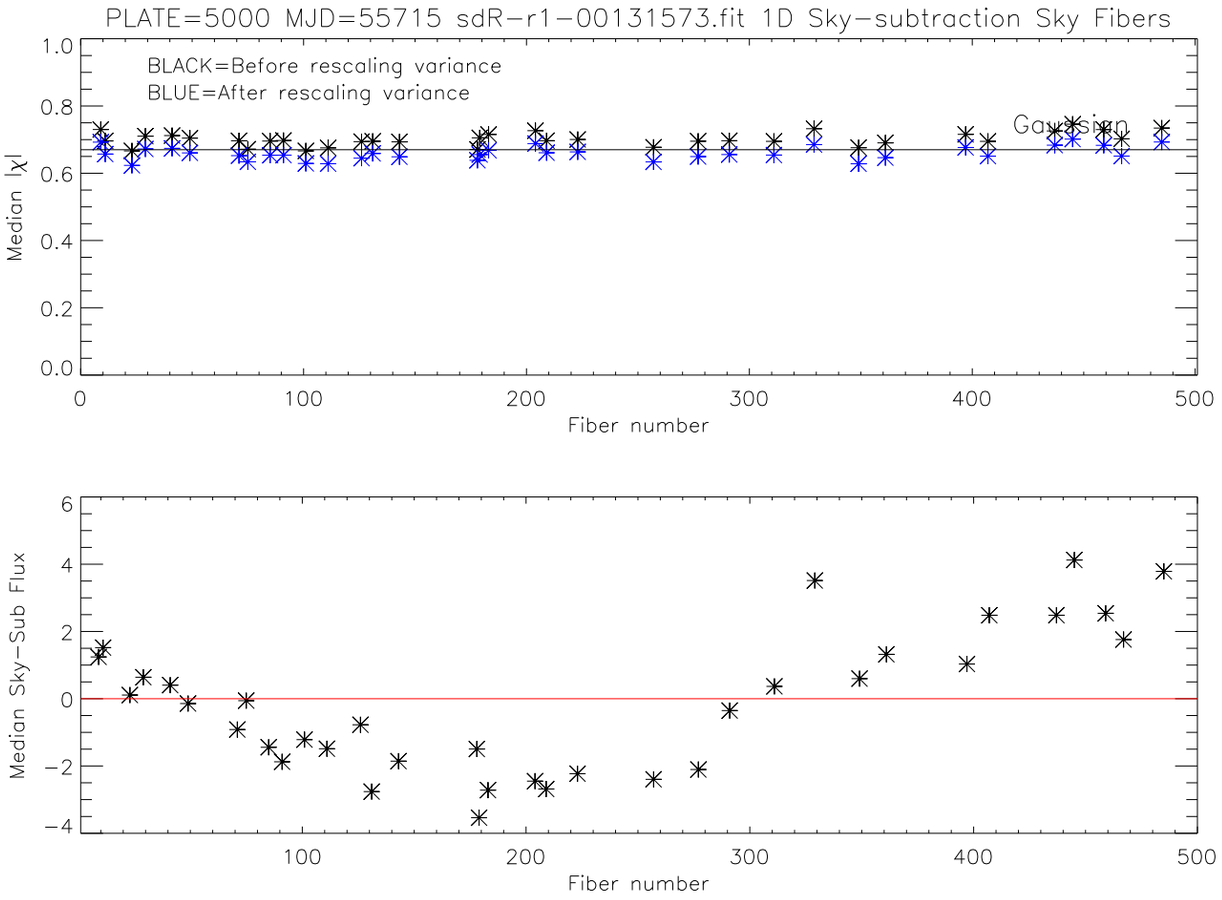

PLATE=5000 MJD=55715 sdR-r1-00131572.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.58 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

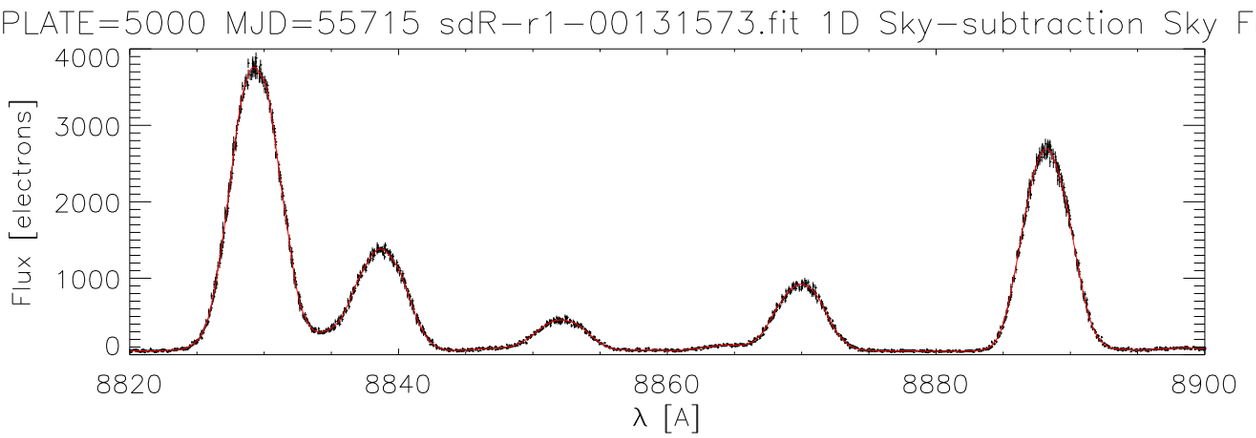

PLATE=5000 MJD=55715 Fiber−Flats for sdR−r1−00131570.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −44.346
Max value = 6.511
Fiber−Flat
1.5
1.0
0.5
0.0
6000
7000
8000
9000
10000
λ [A]
Sat May 28 05:57:08 2016

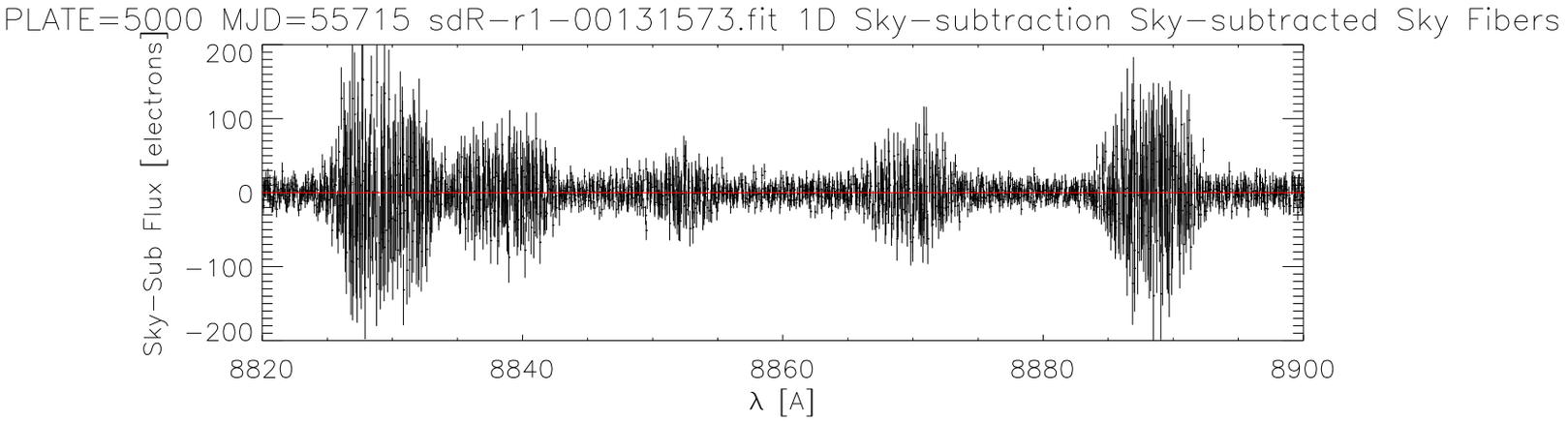

PLATE=5000 MJD=55715 Extraction chi^2 for sdR−r1−00131573.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=5000 MJD=55715 Sky Line Deviations for sdR-r1-00131573.fit
1.00 pix
Before shift
After shift
Fiber Number
0
100
200
300
400
500
5460 5577 6300 6363 6553 6923 6949 7571 7794 7821 8399 8430 8885 8919
Sky Line Wavelength

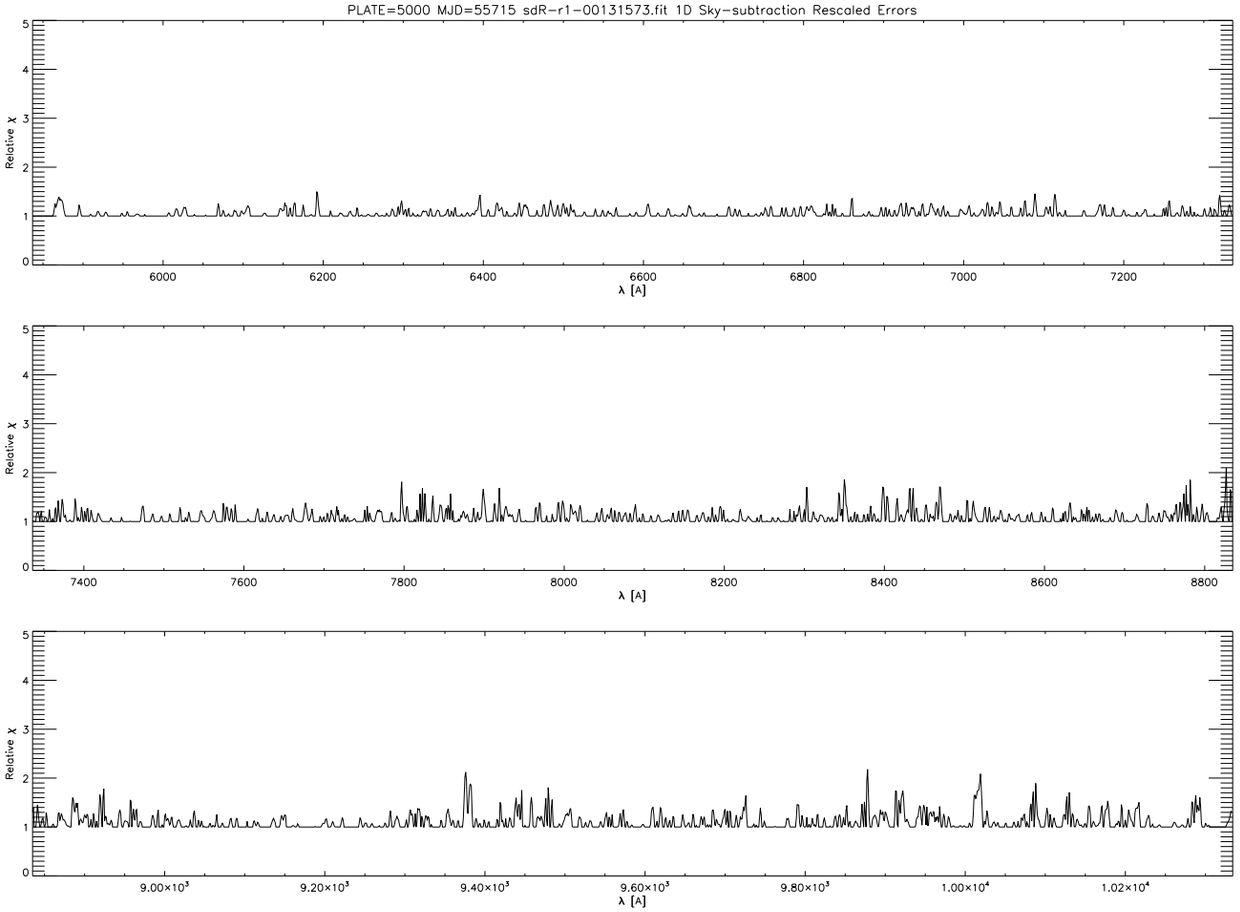

PLATE=5000 MJD=55715 Smooth superflat for sdR-r1-00131573.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

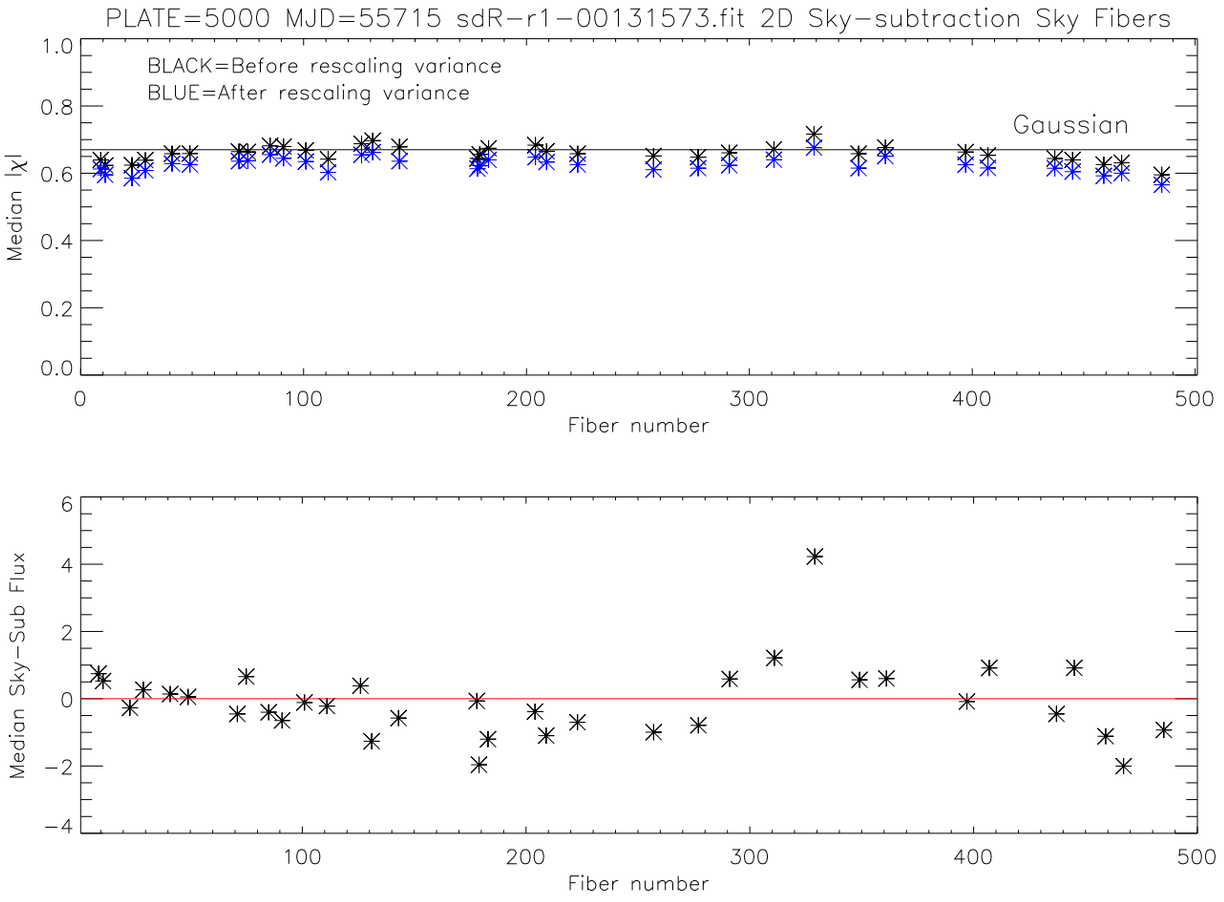

PLATE=5000 MJD=55715 sdR-r1-00131573.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

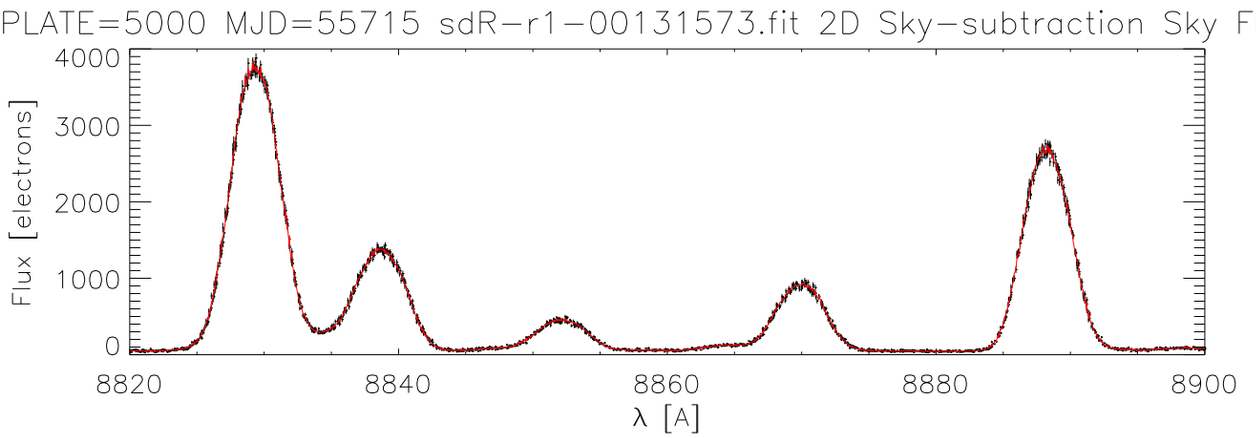

PLATE=5000 MJD=55715 sdR-r1-00131573.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

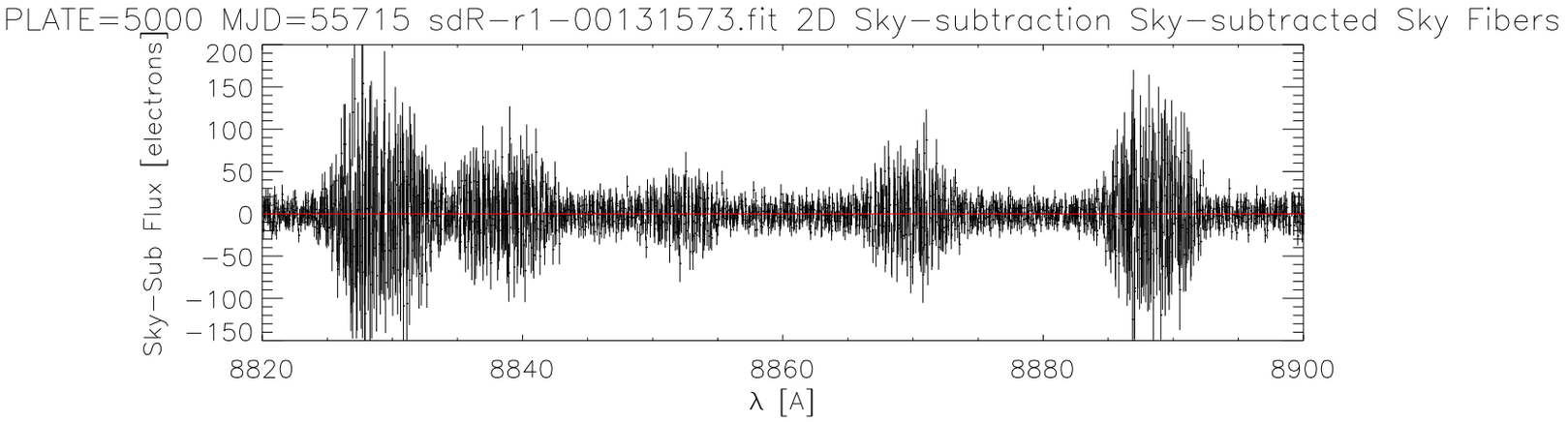

PLATE=5000 MJD=55715 sdR-r1-00131573.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 35

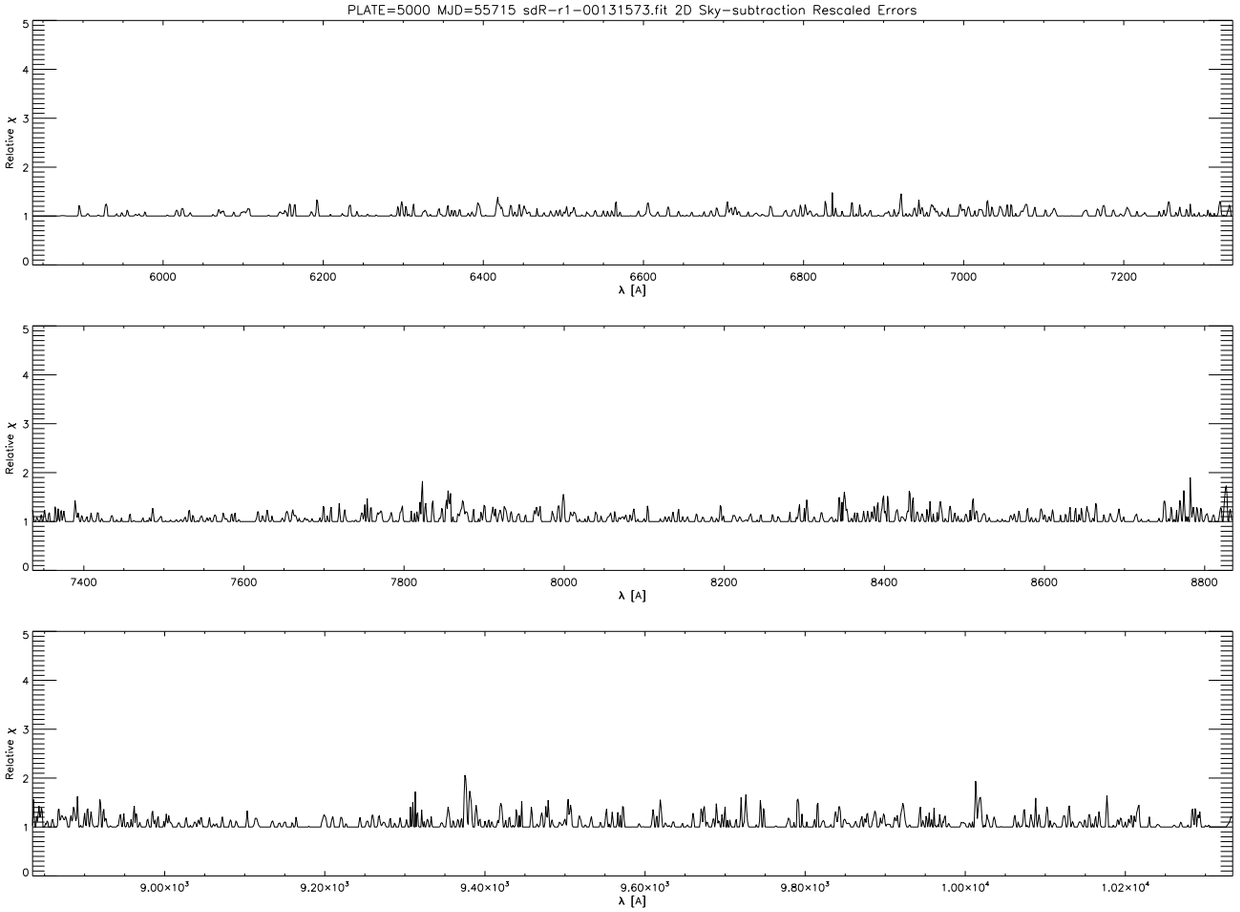


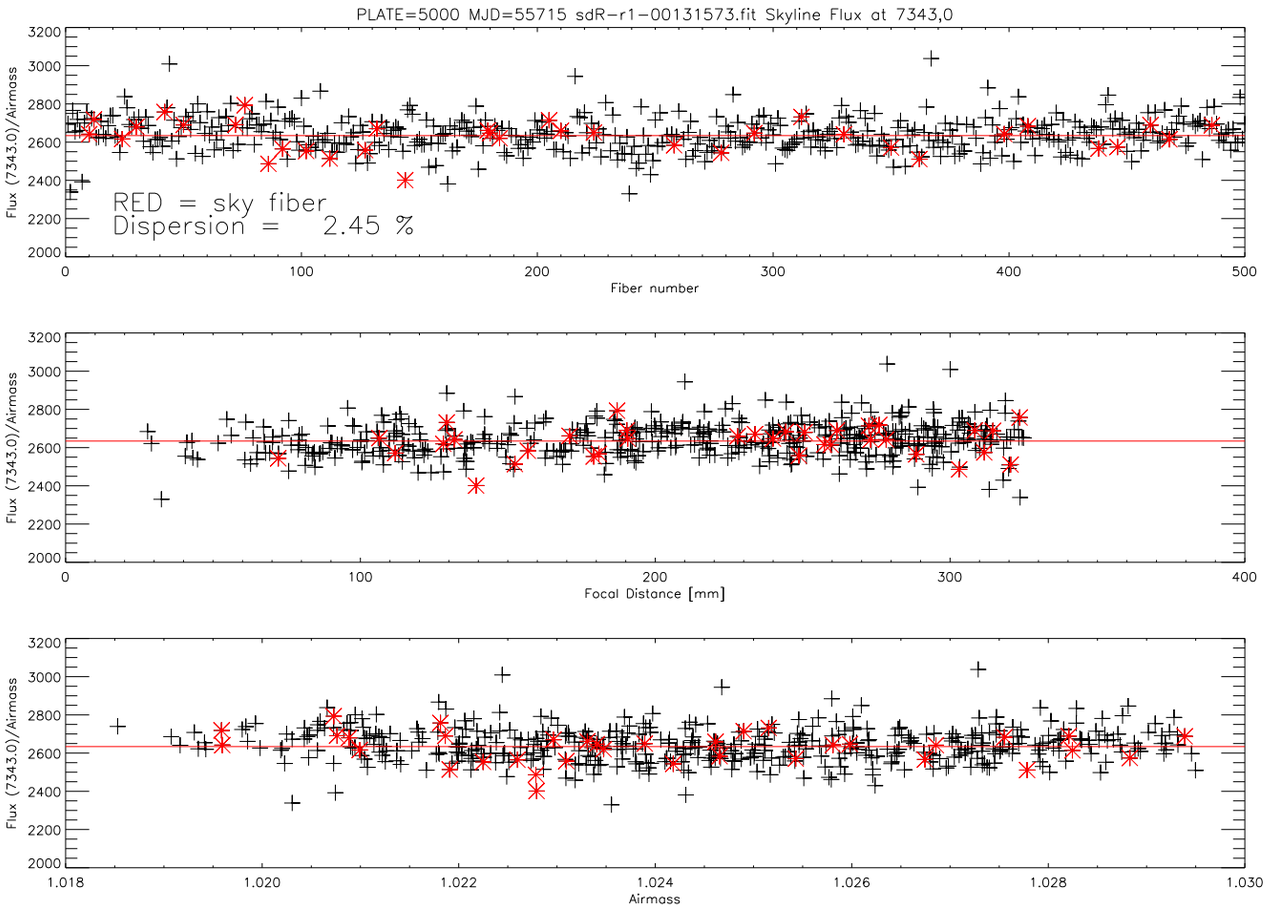

PLATE=5000 MJD=55715 sdR-r1-00131573.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

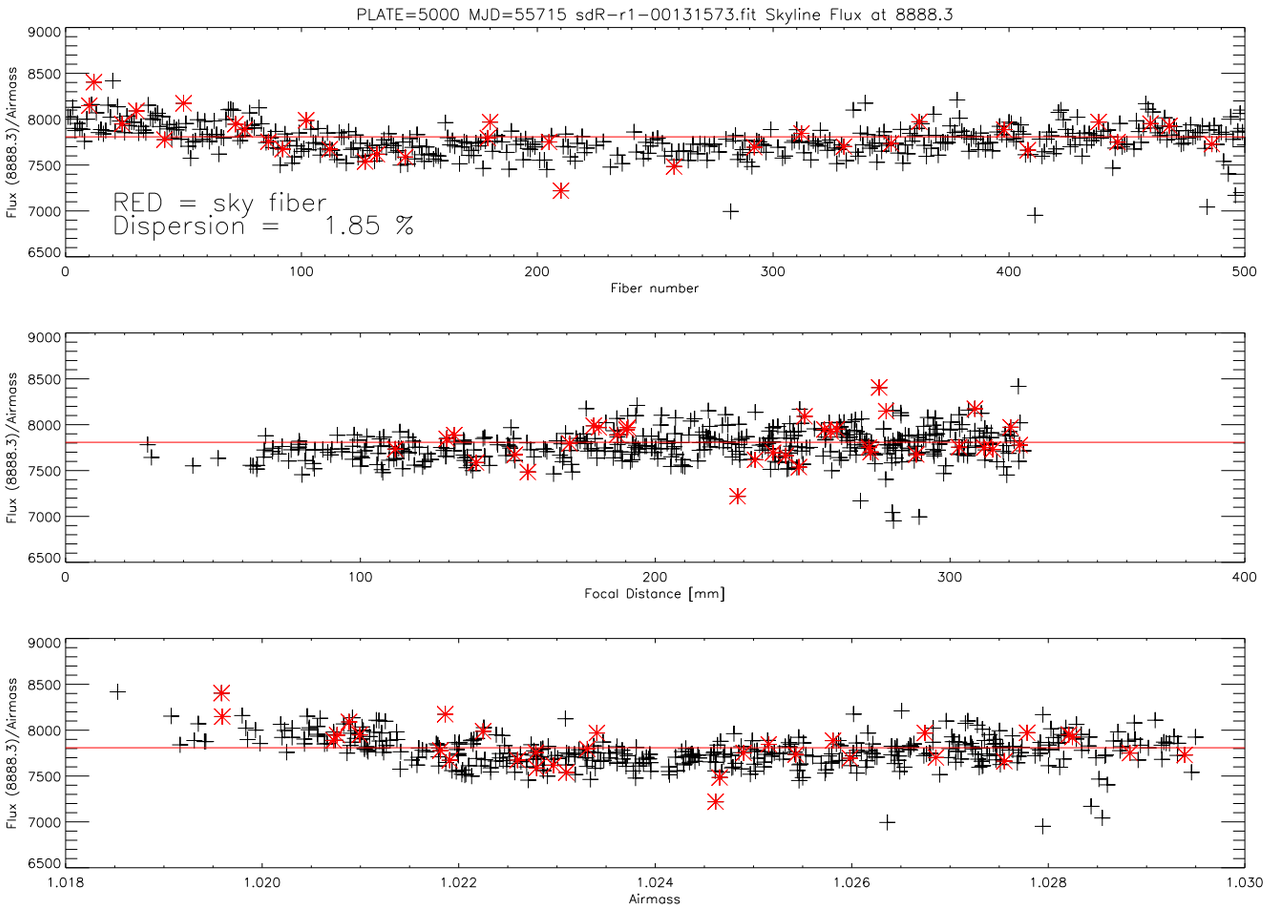

PLATE=5000 MJD=55715 sdR-r1-00131573.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

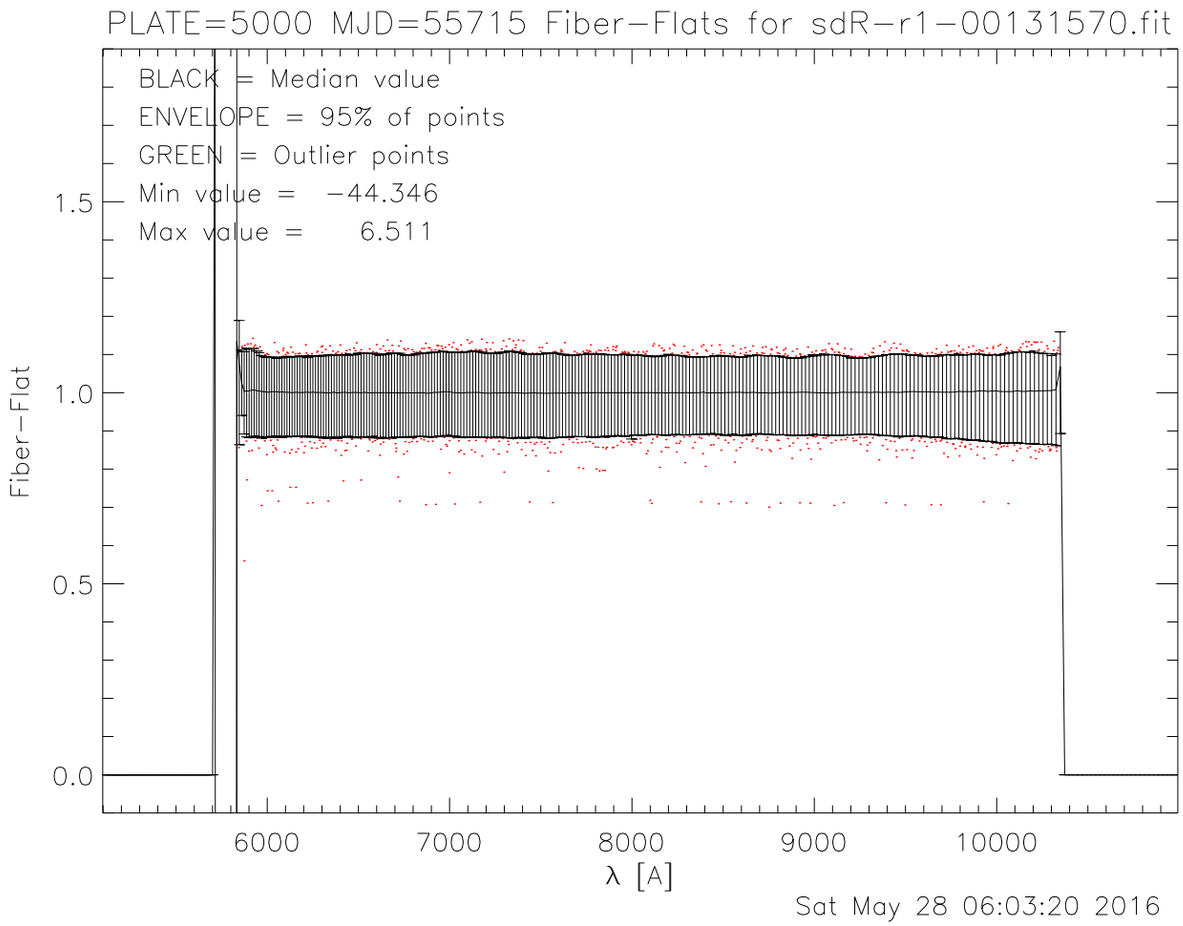

PLATE=5000 MJD=55715 sdR-r1-00131573.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
200
150
100
50
0
-50
-100
-150
8820
8840
8860
8880
8900
λ [A]

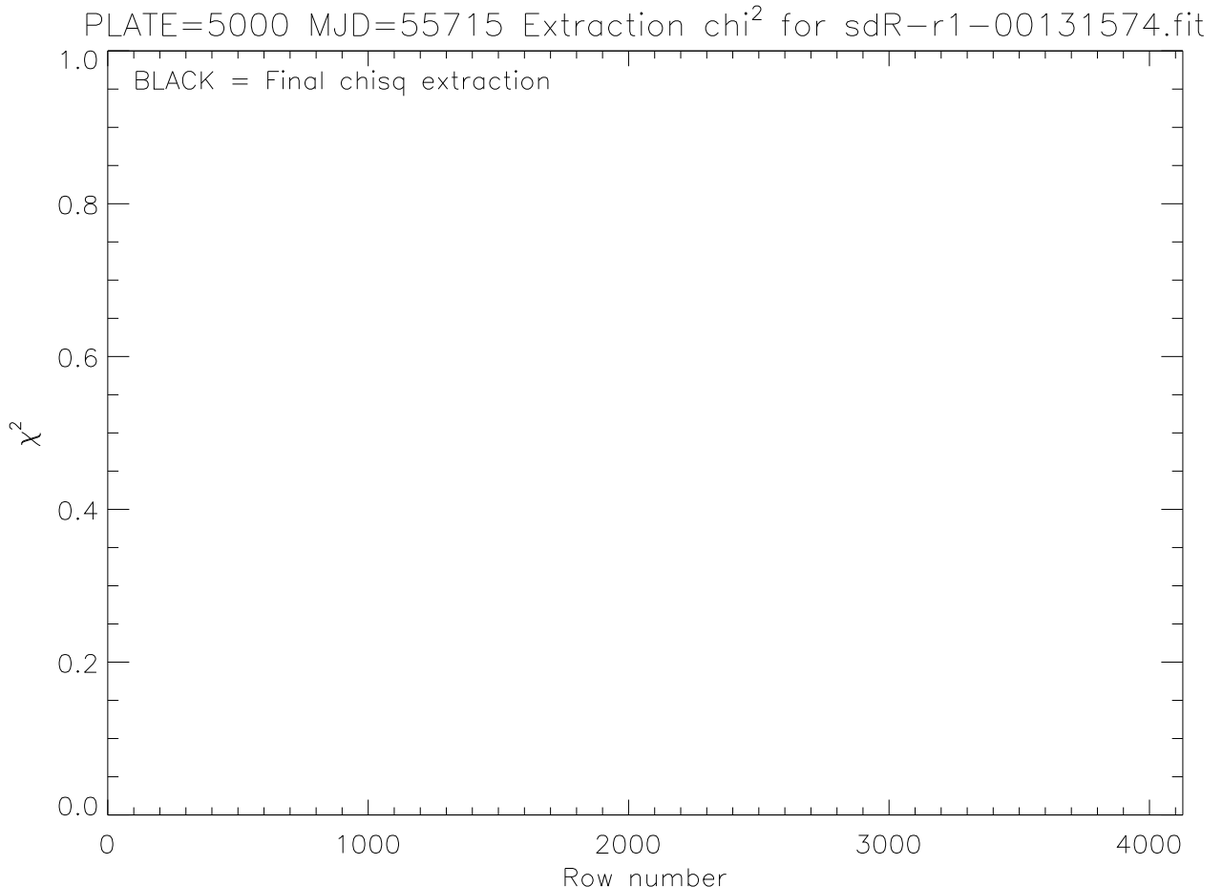
Number of sky fibers = 35

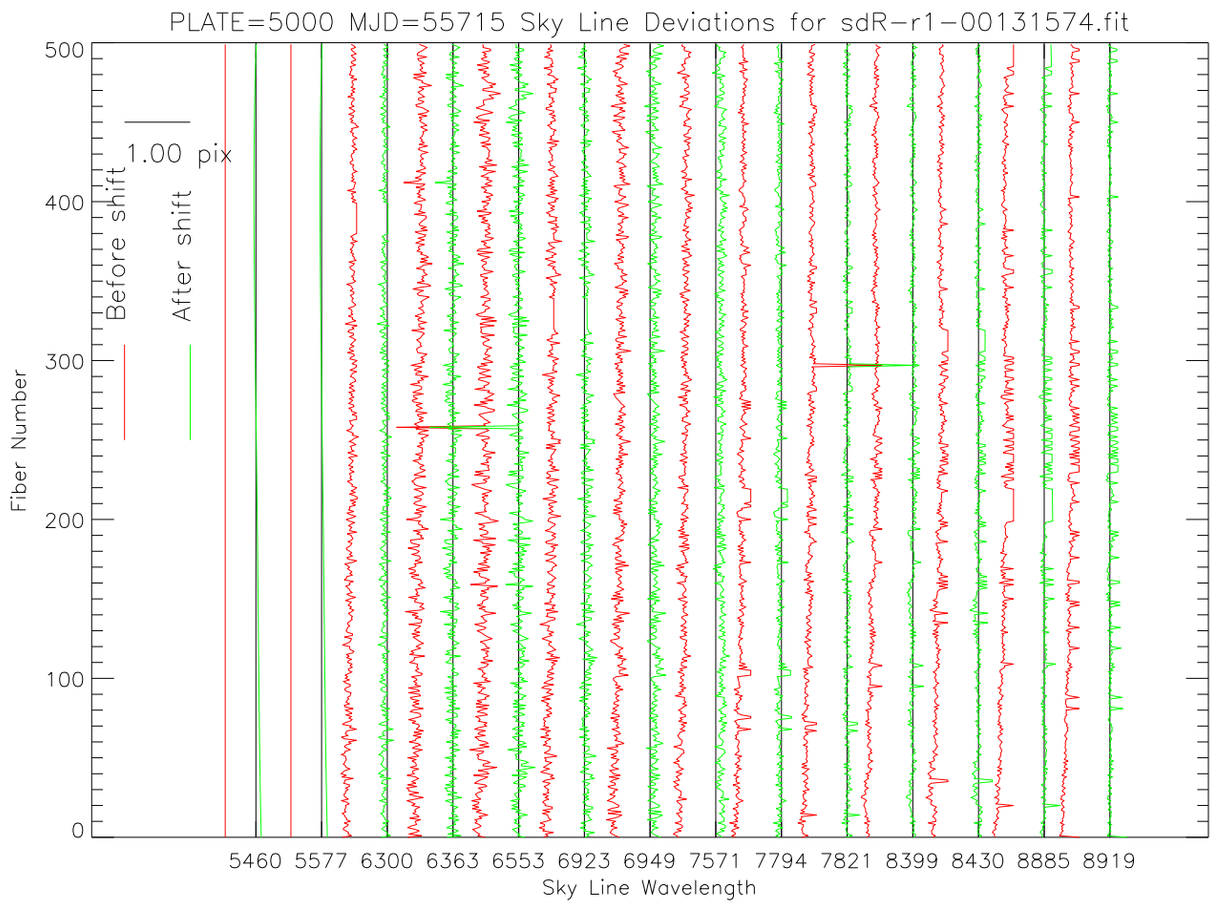


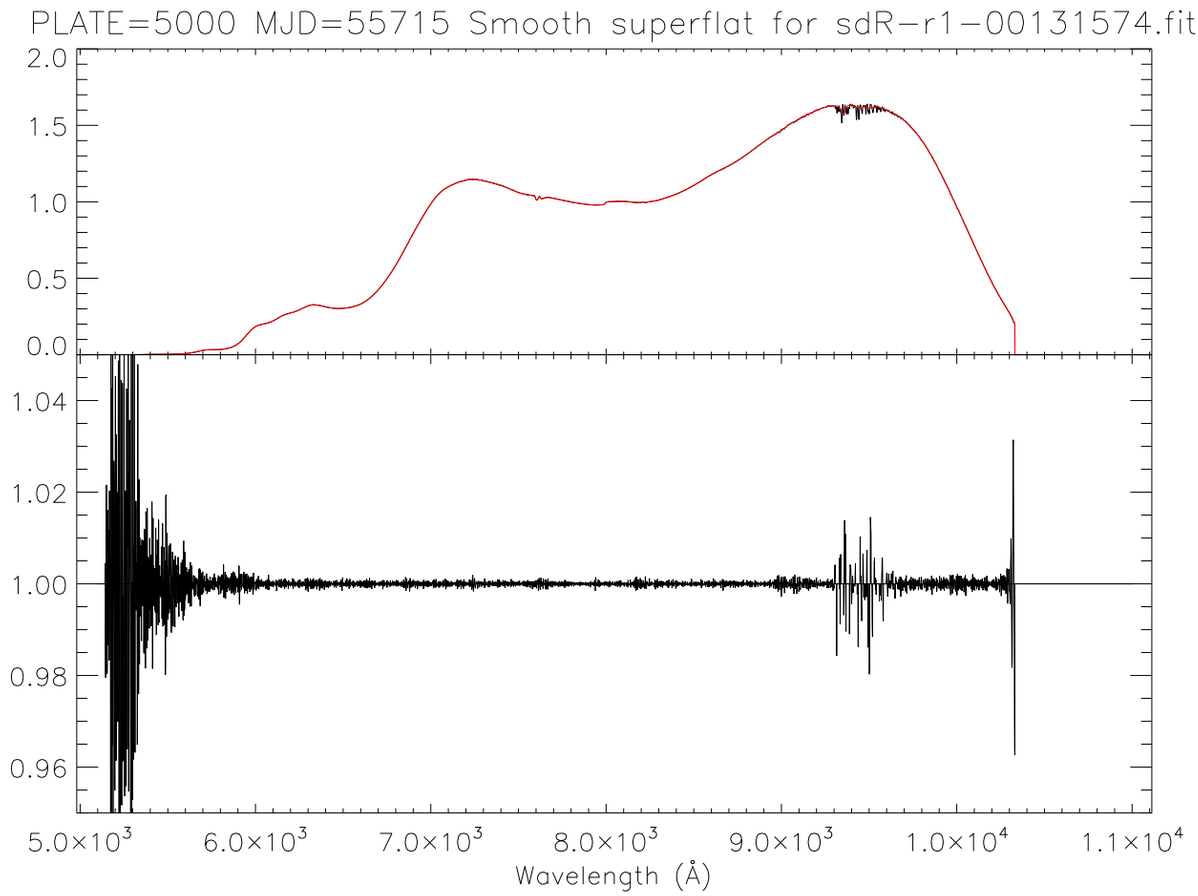

PLATE=5000 MJD=55715 sdR-r1-00131573.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.45 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

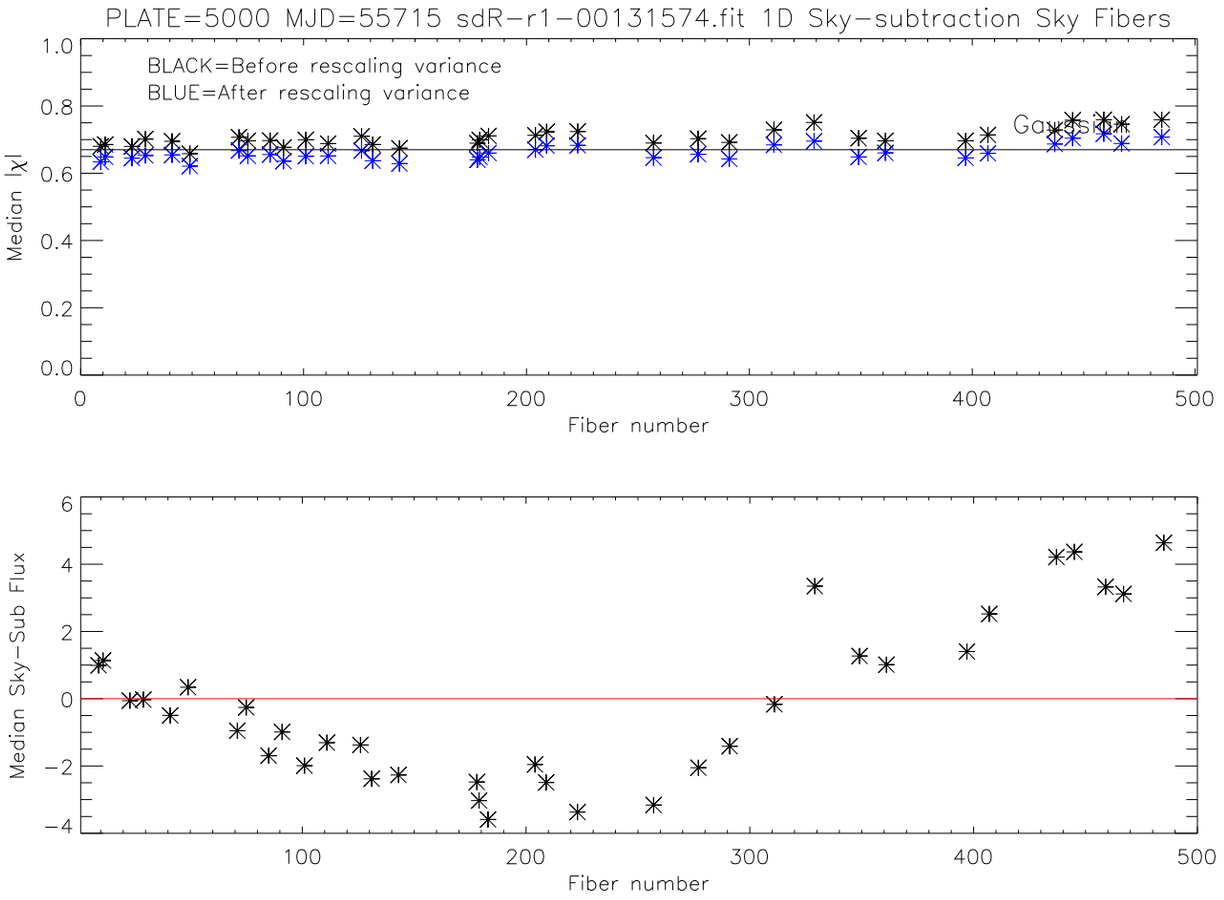

PLATE=5000 MJD=55715 sdR-r1-00131573.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.85 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

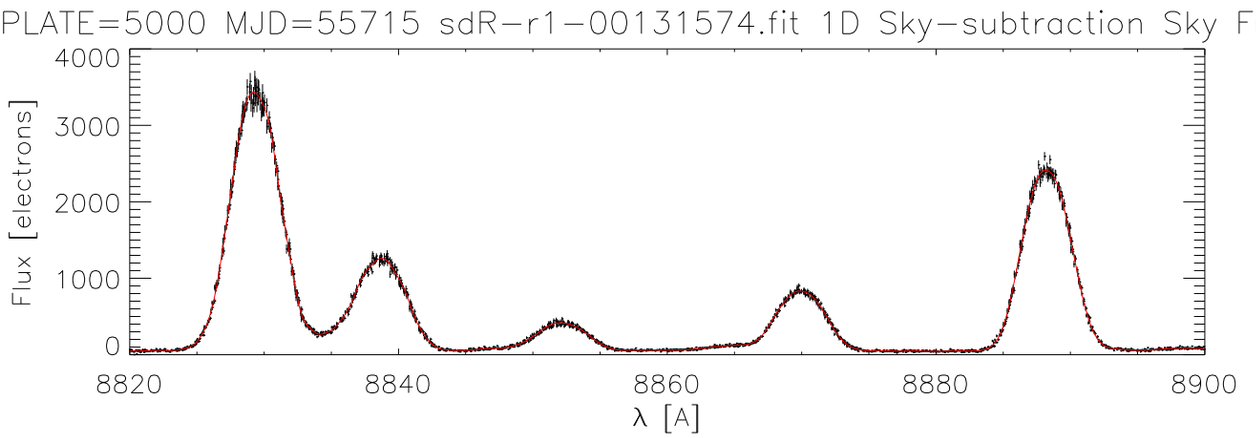

PLATE=5000 MJD=55715 Fiber−Flats for sdR−r1−00131570.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −44.346
Max value = 6.511
Fiber−Flat
1.5
1.0
0.5
0.0
6000
7000
8000
9000
10000
λ [A]
Sat May 28 06:03:20 2016

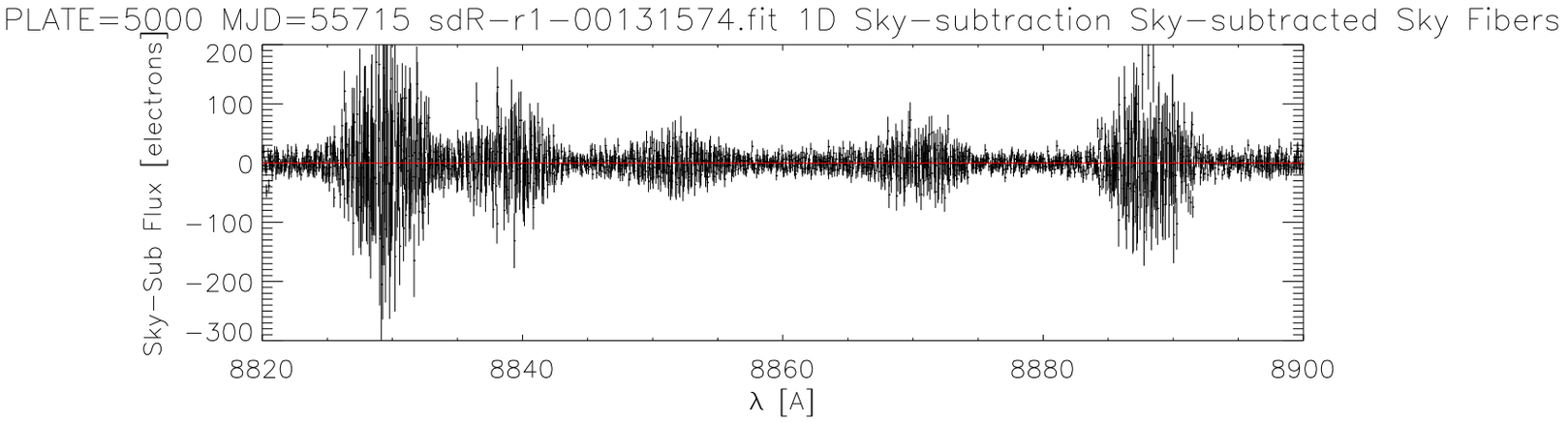

PLATE=5000 MJD=55715 Extraction chi^2 for sdR−r1−00131574.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=5000 MJD=55715 Sky Line Deviations for sdR-r1-00131574.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

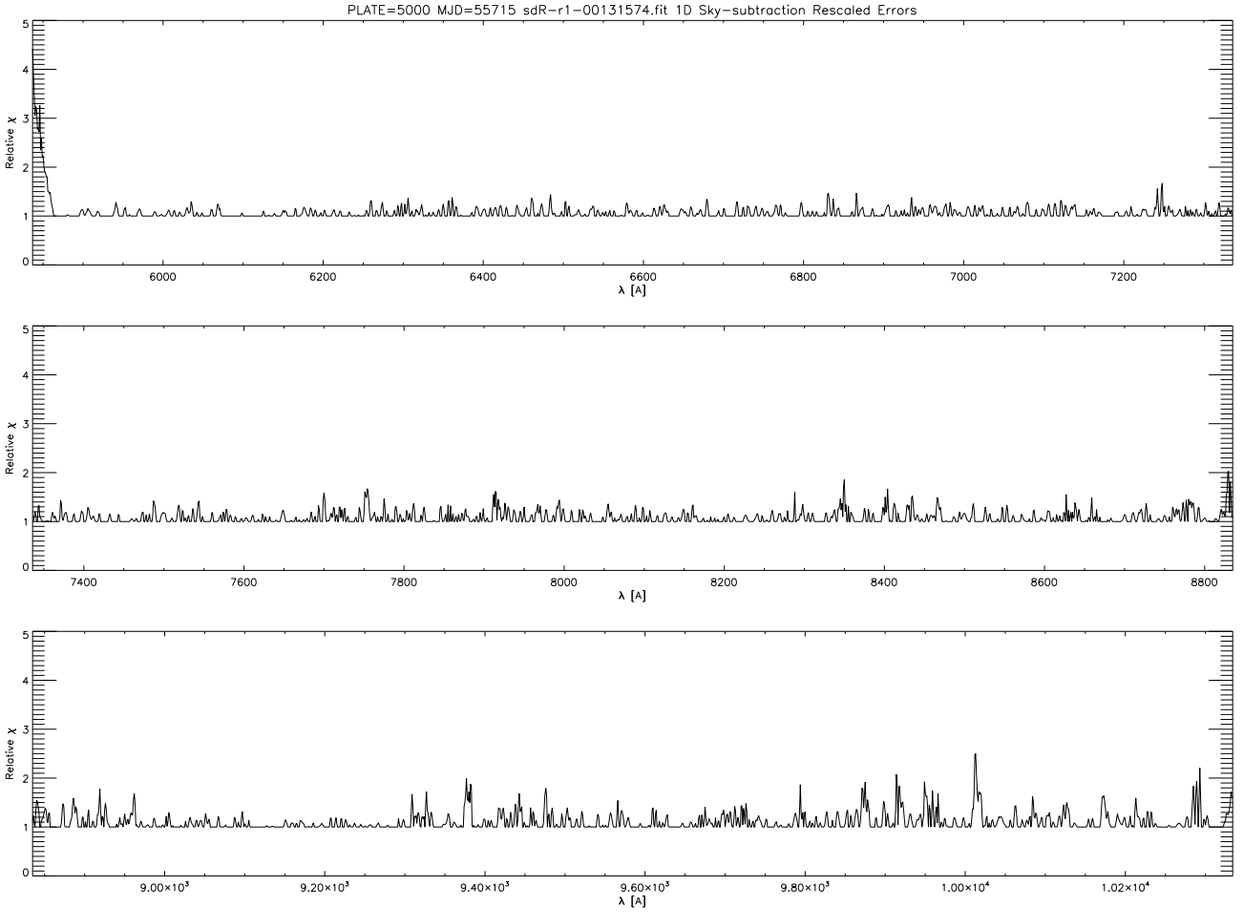

PLATE=5000 MJD=55715 Smooth superflat for sdR-r1-00131574.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

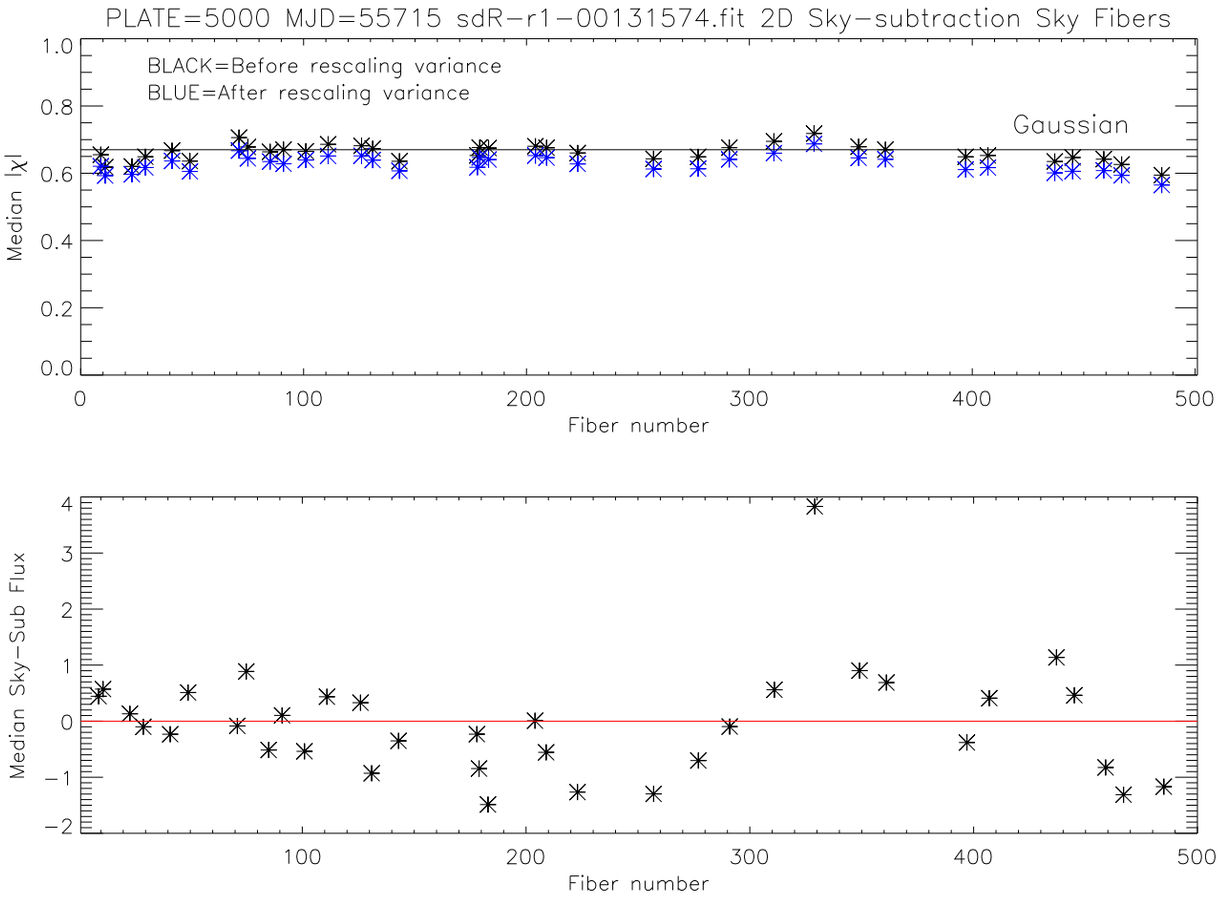

PLATE=5000 MJD=55715 sdR-r1-00131574.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

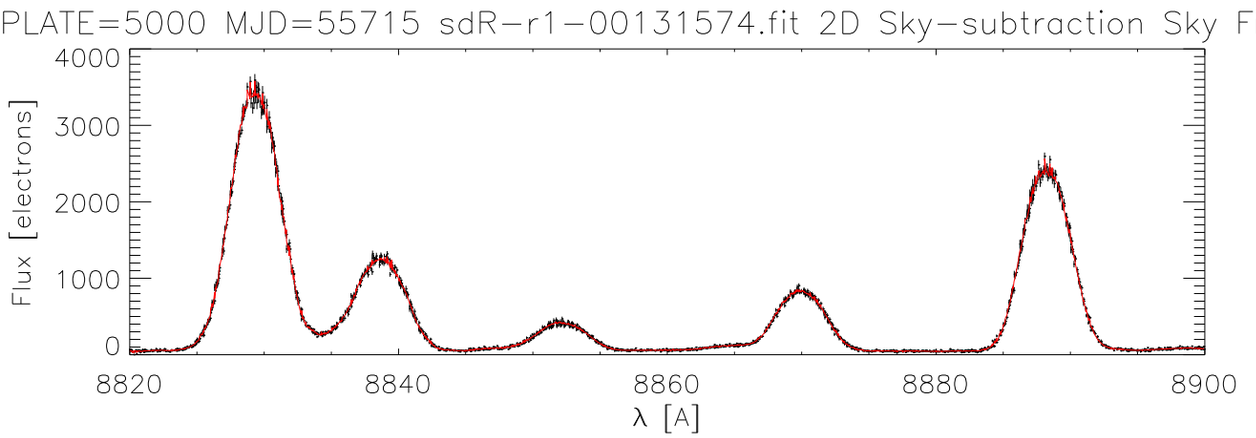

PLATE=5000 MJD=55715 sdR-r1-00131574.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

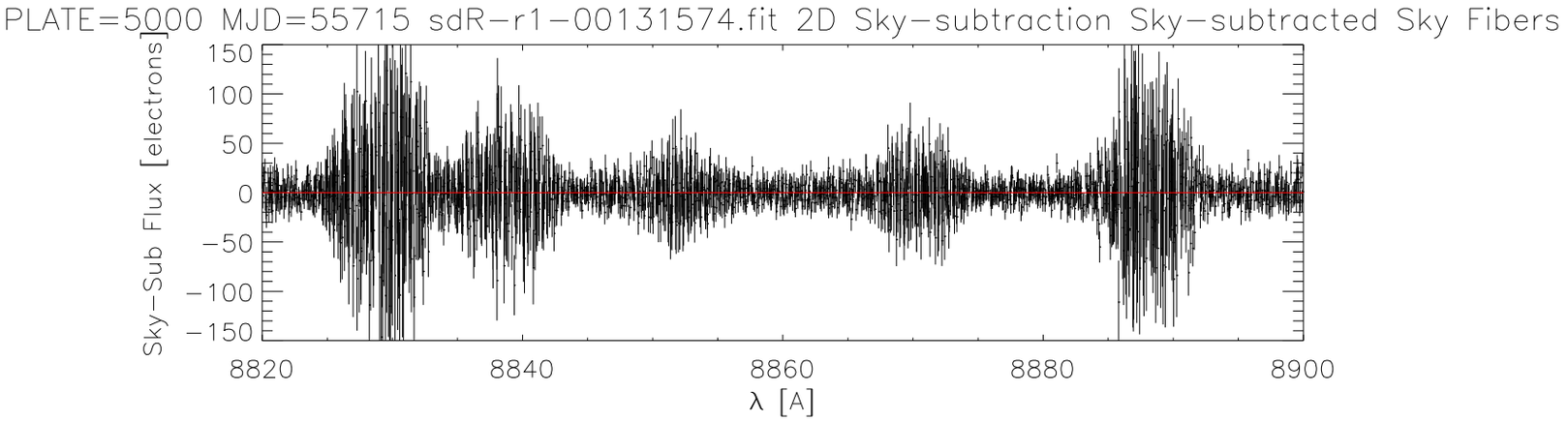

PLATE=5000 MJD=55715 sdR-r1-00131574.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 35

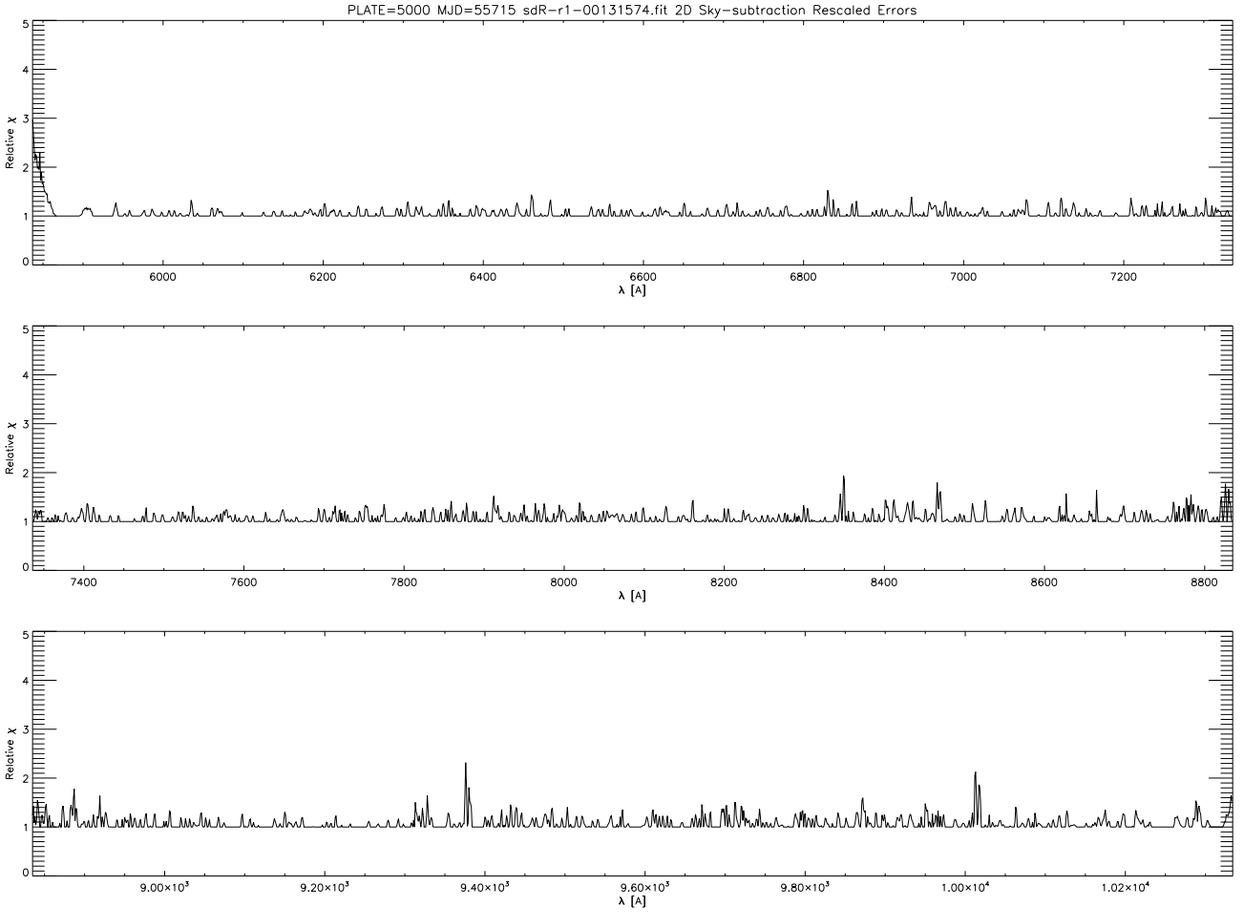


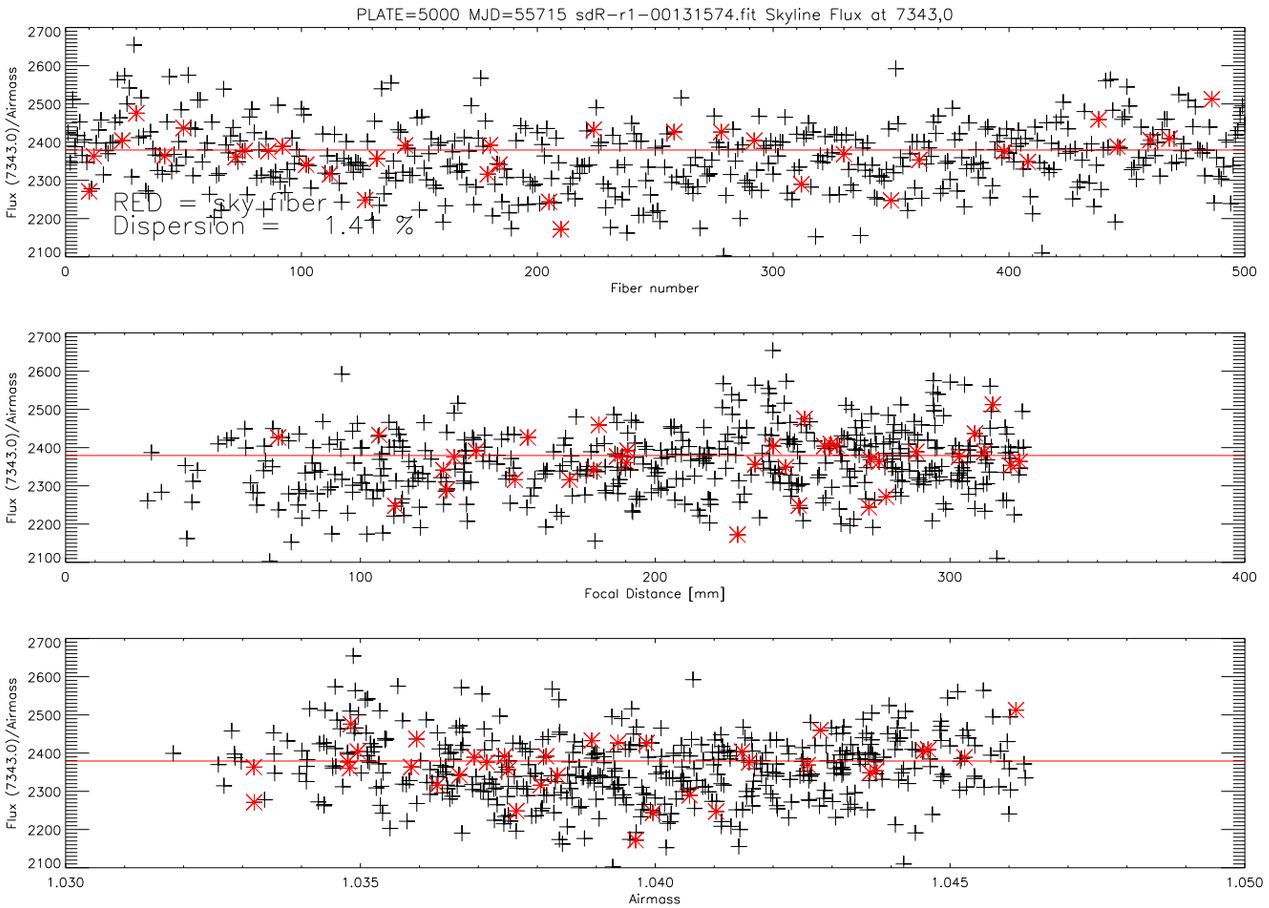

PLATE=5000 MJD=55715 sdR-r1-00131574.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

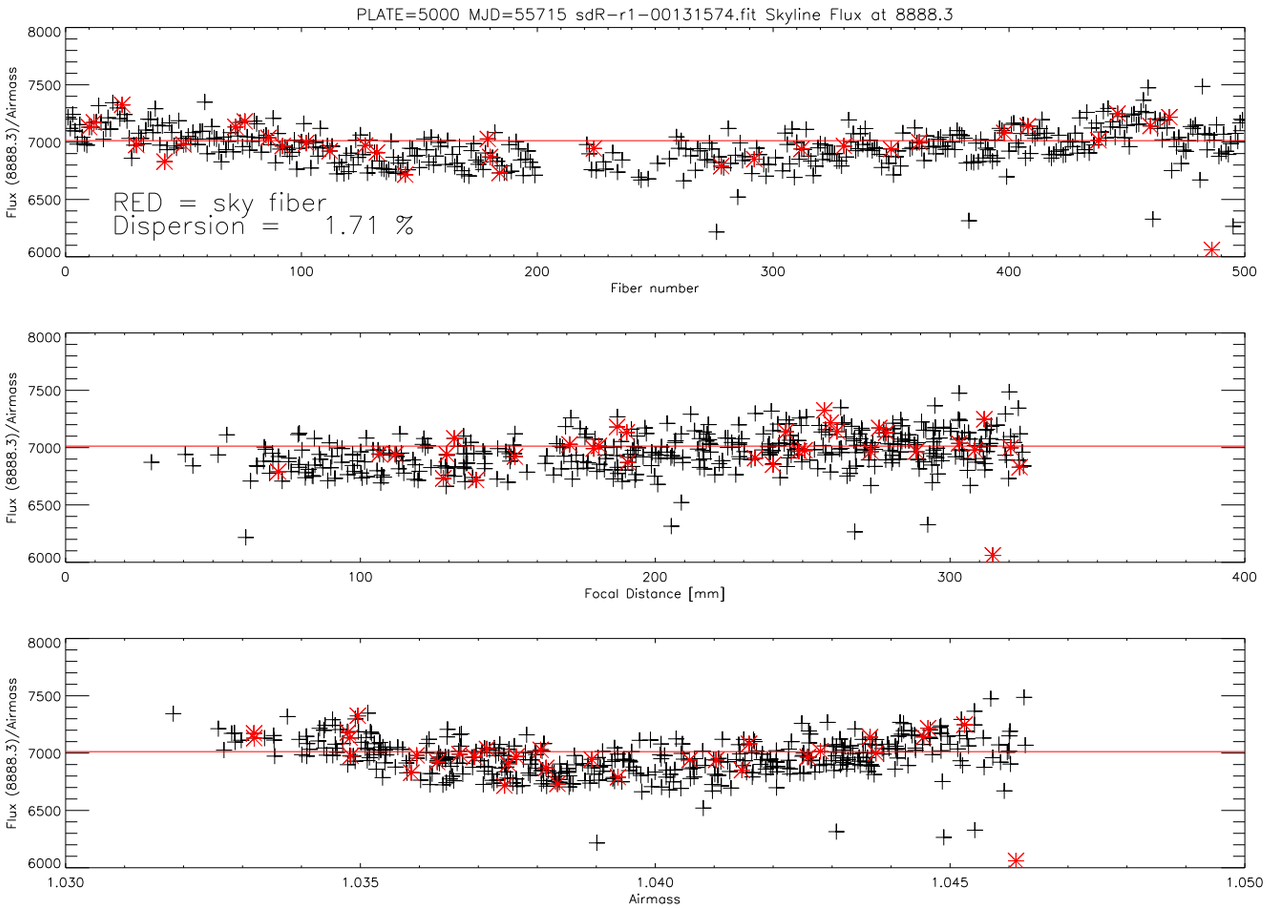

PLATE=5000 MJD=55715 sdR-r1-00131574.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

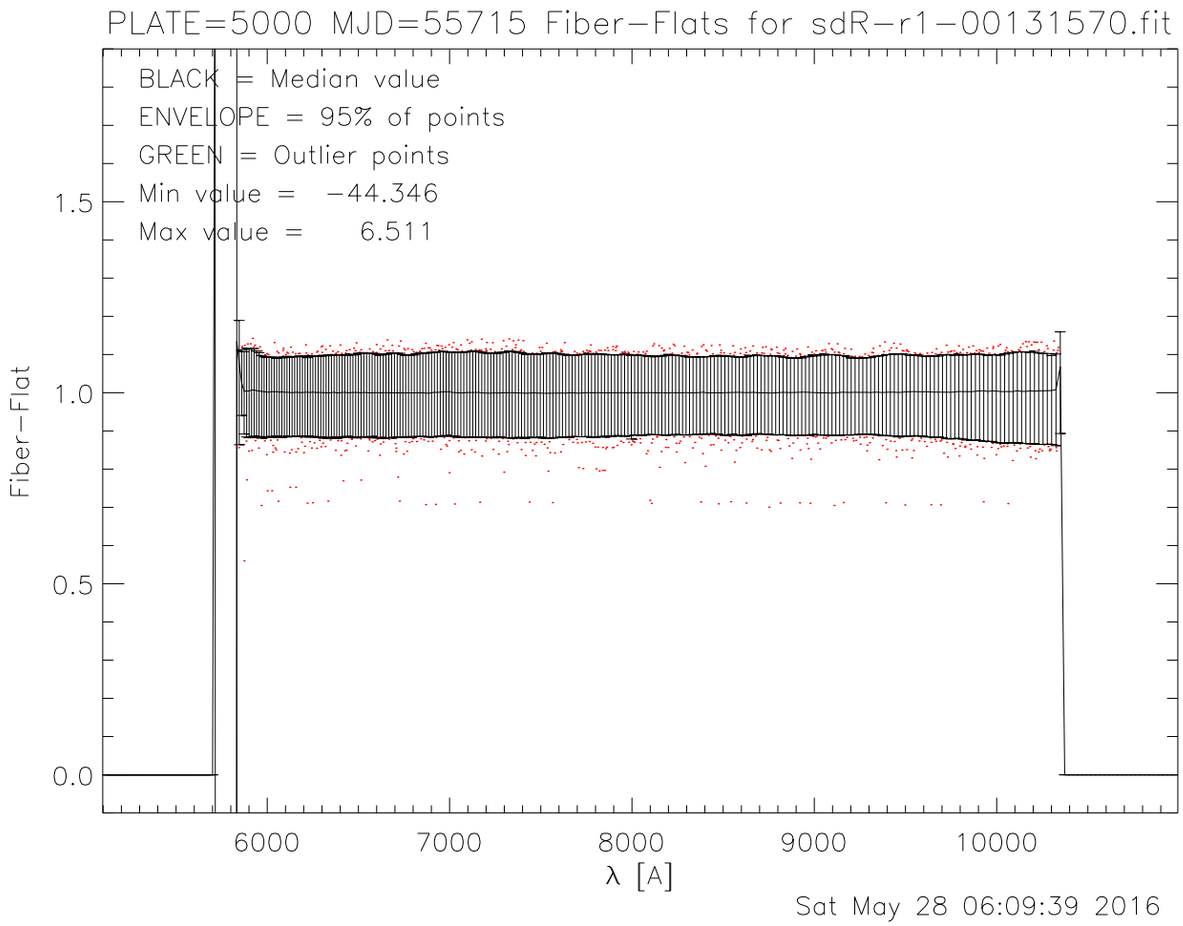

PLATE=5000 MJD=55715 sdR-r1-00131574.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
8820
8840
8860
8880
8900
λ [A]

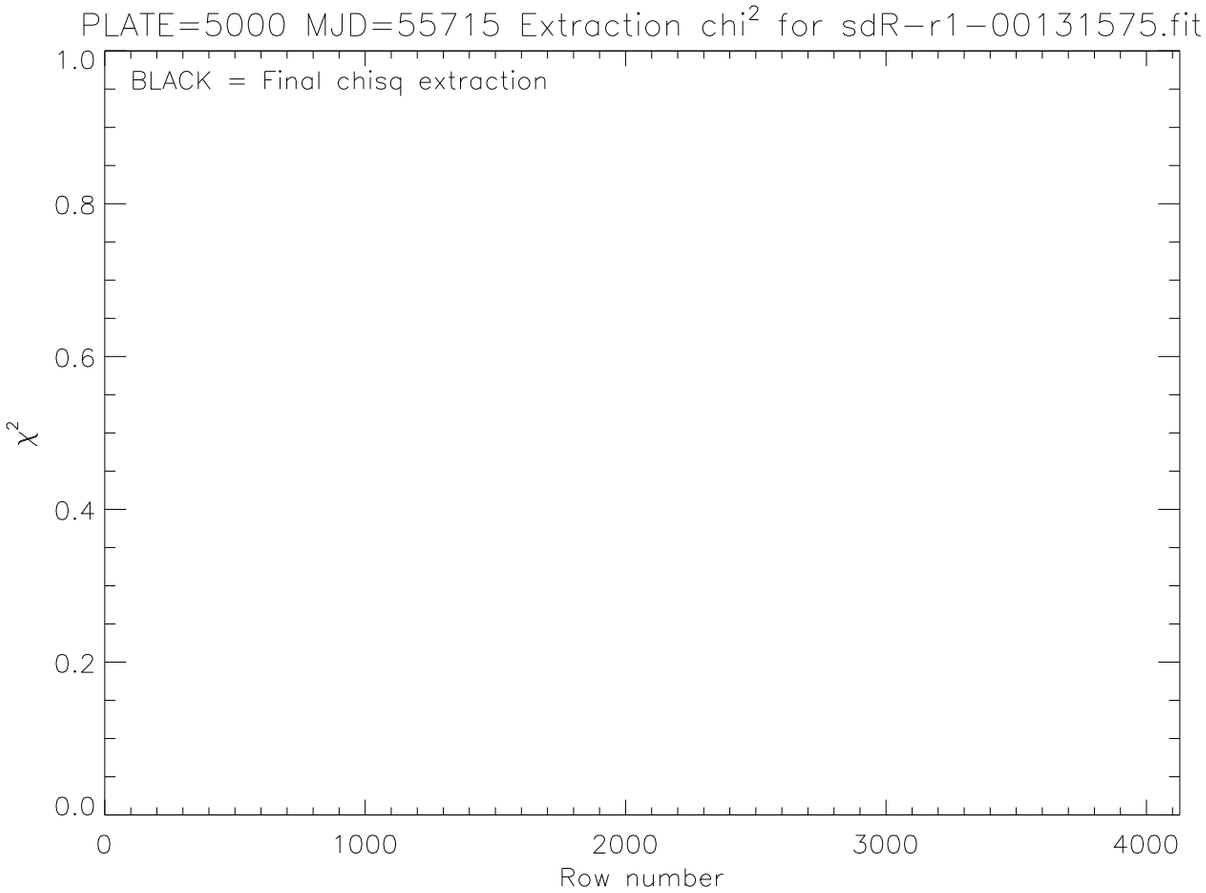
Number of sky fibers = 35

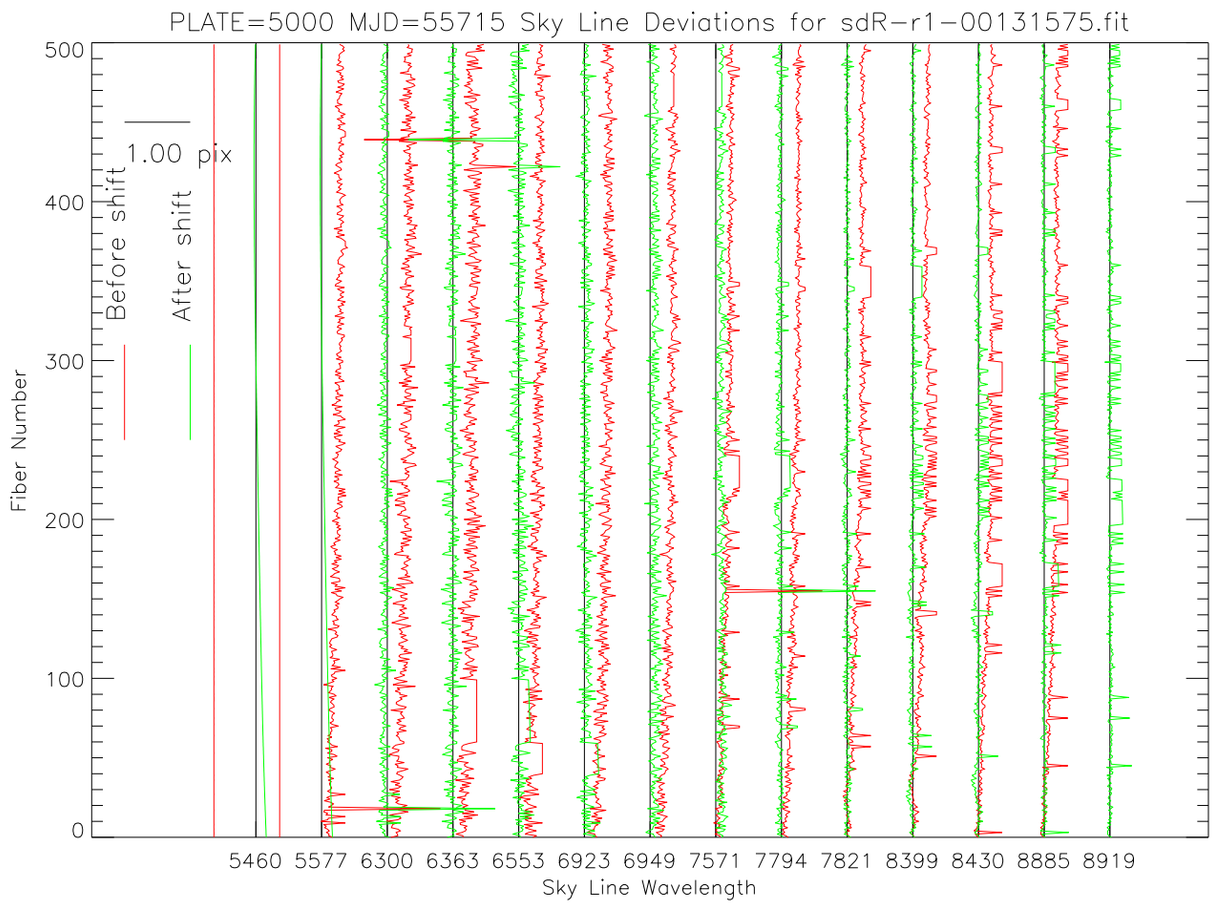


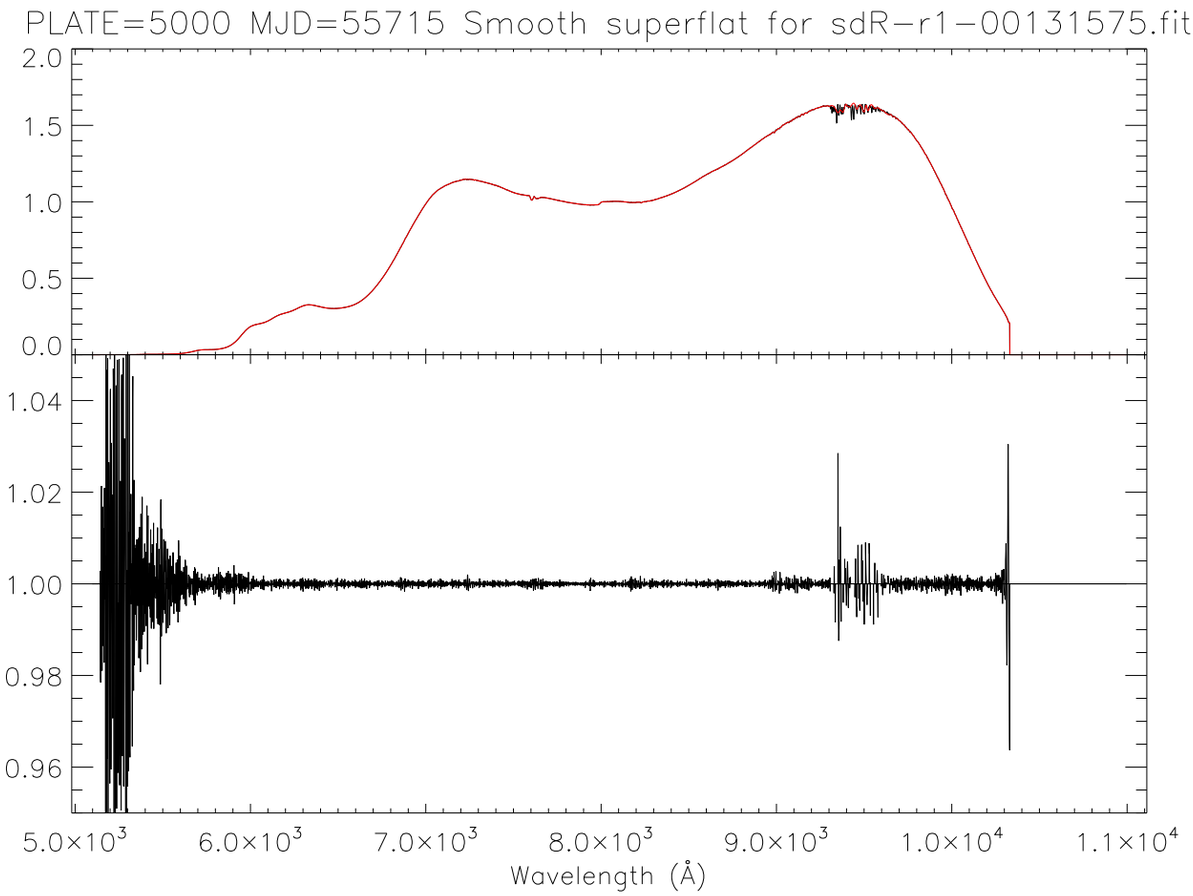

PLATE=5000 MJD=55715 sdR-r1-00131574.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.41 %
Focal Distance [mm]
Airmass

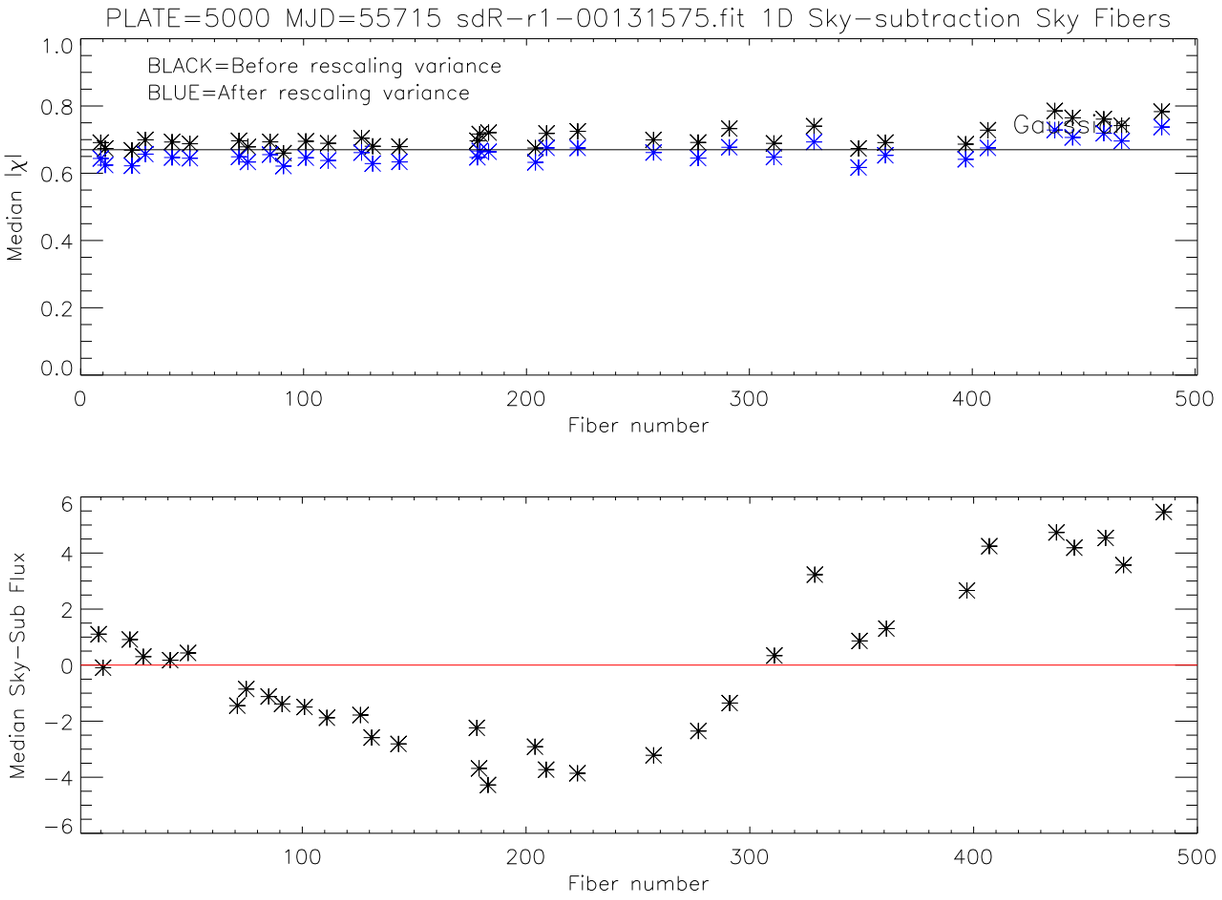

PLATE=5000 MJD=55715 sdR-r1-00131574.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.71 %
Fiber number
Focal Distance [mm]
Airmass

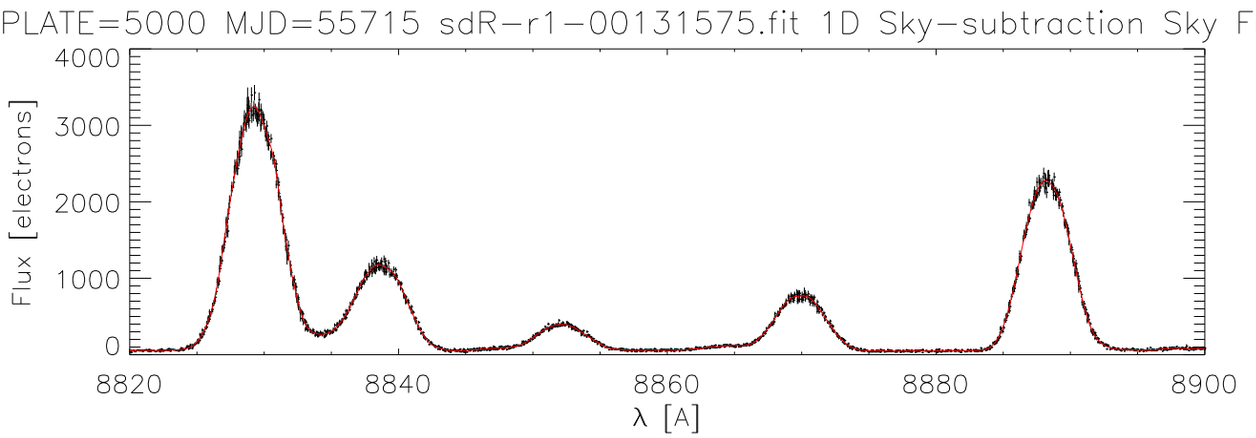

PLATE=5000 MJD=55715 Fiber−Flats for sdR−r1−00131570.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −44.346
Max value = 6.511
Fiber−Flat
1.5
1.0
0.5
0.0
6000
7000
8000
9000
10000
λ [A]
Sat May 28 06:09:39 2016

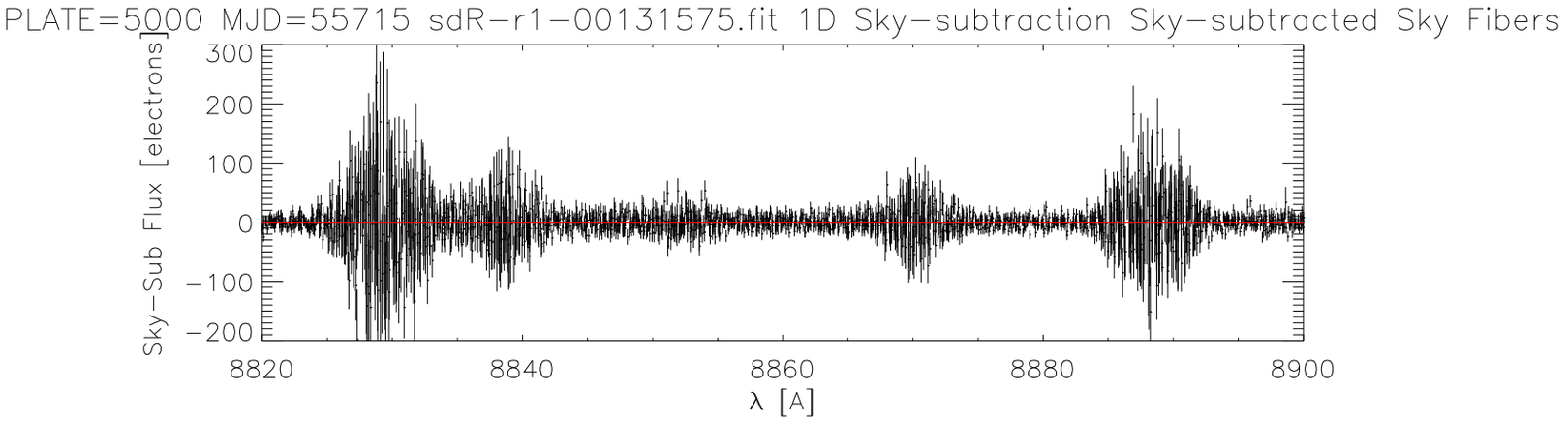

PLATE=5000 MJD=55715 Extraction chi^2 for sdR−r1−00131575.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=5000 MJD=55715 Sky Line Deviations for sdR-r1-00131575.fit
1.00 pix
Before shift
After shift
Fiber Number
0
100
200
300
400
500
5460 5577 6300 6363 6553 6923 6949 7571 7794 7821 8399 8430 8885 8919
Sky Line Wavelength

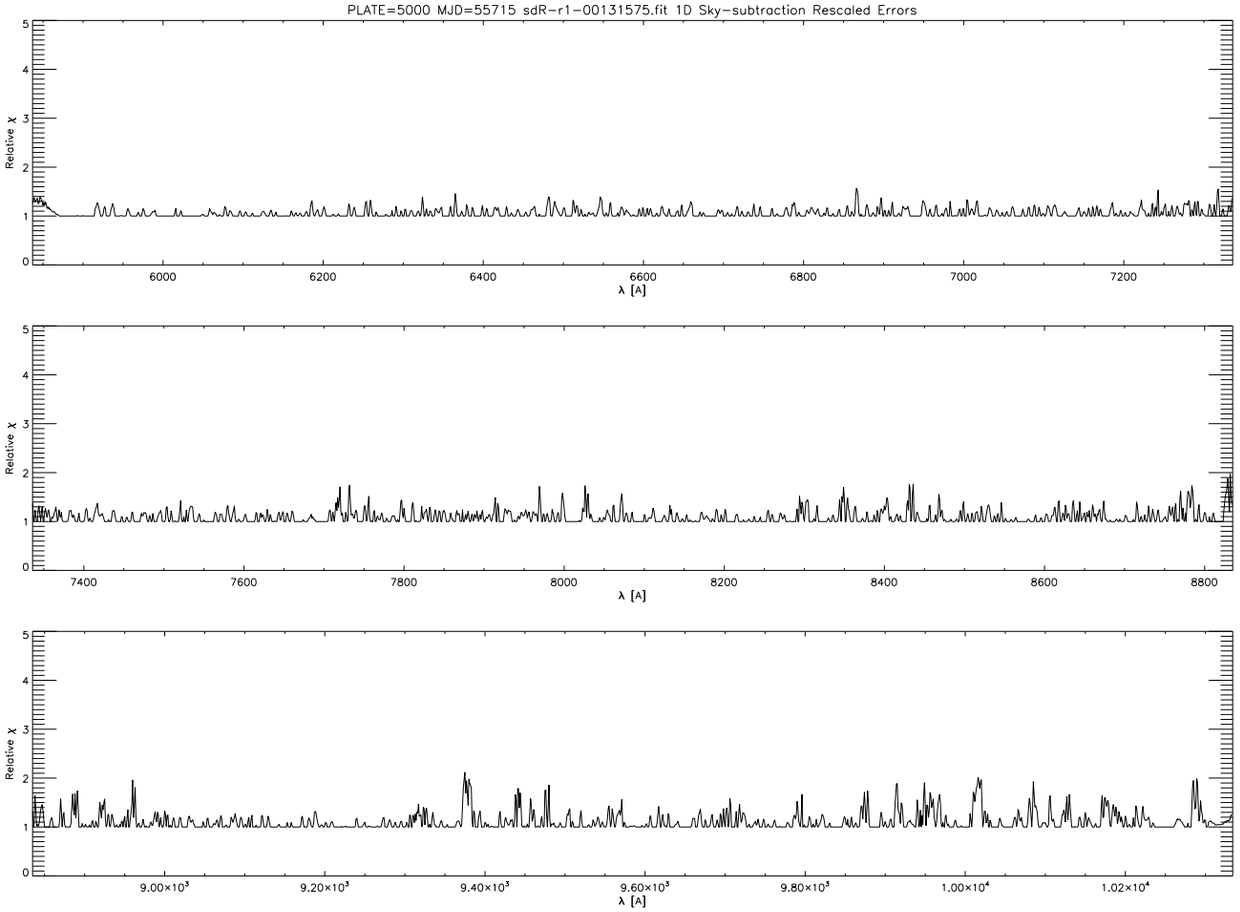

PLATE=5000 MJD=55715 Smooth superflat for sdR-r1-00131575.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

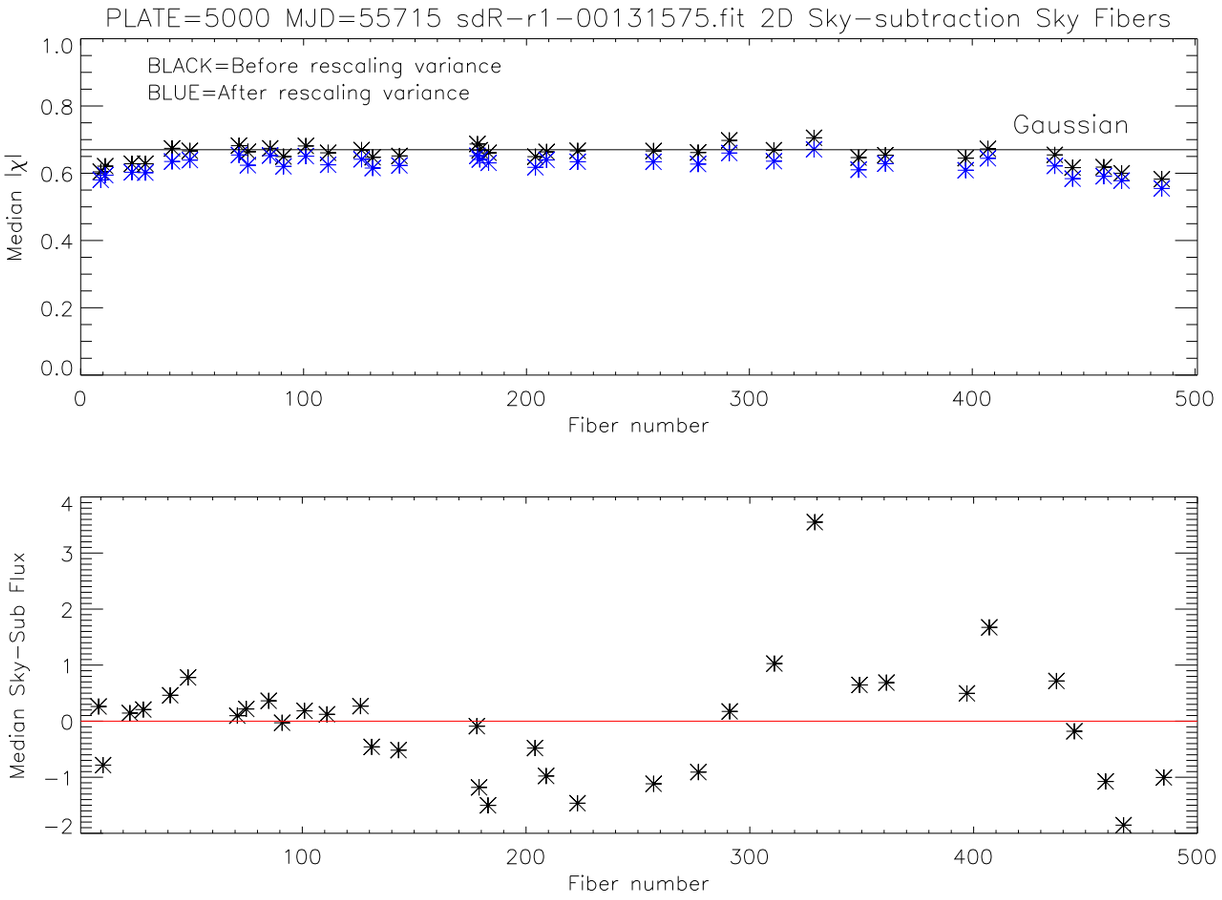

PLATE=5000 MJD=55715 sdR-r1-00131575.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

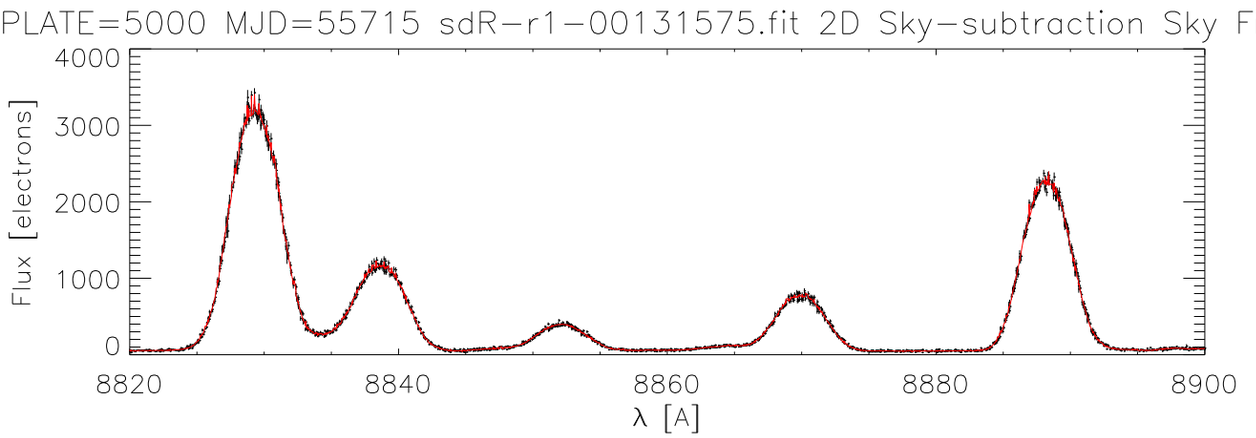

PLATE=5000 MJD=55715 sdR-r1-00131575.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

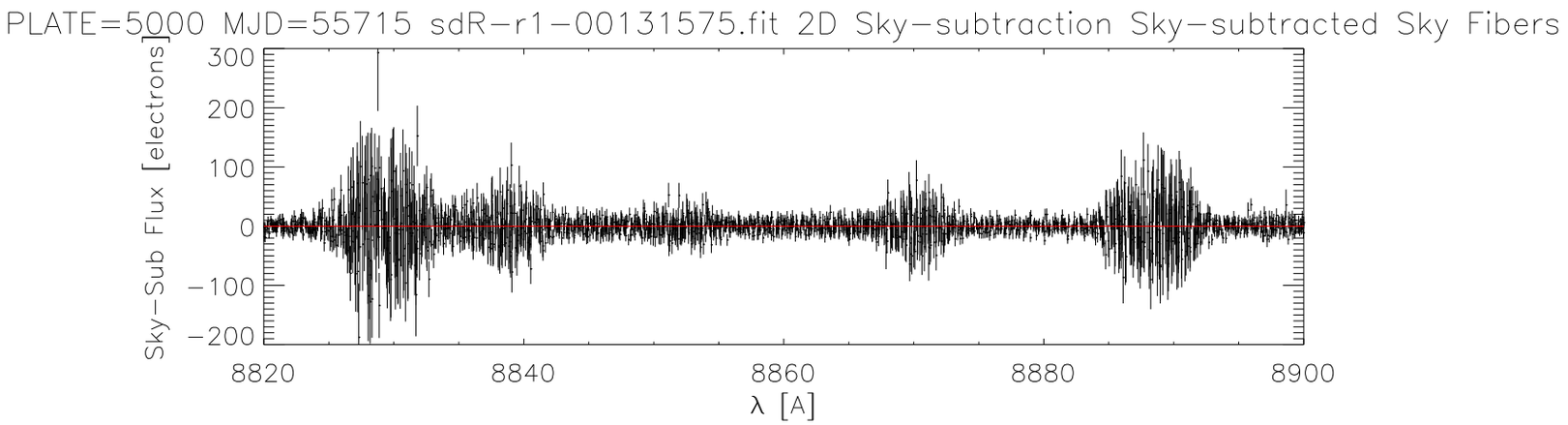

PLATE=5000 MJD=55715 sdR-r1-00131575.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 35

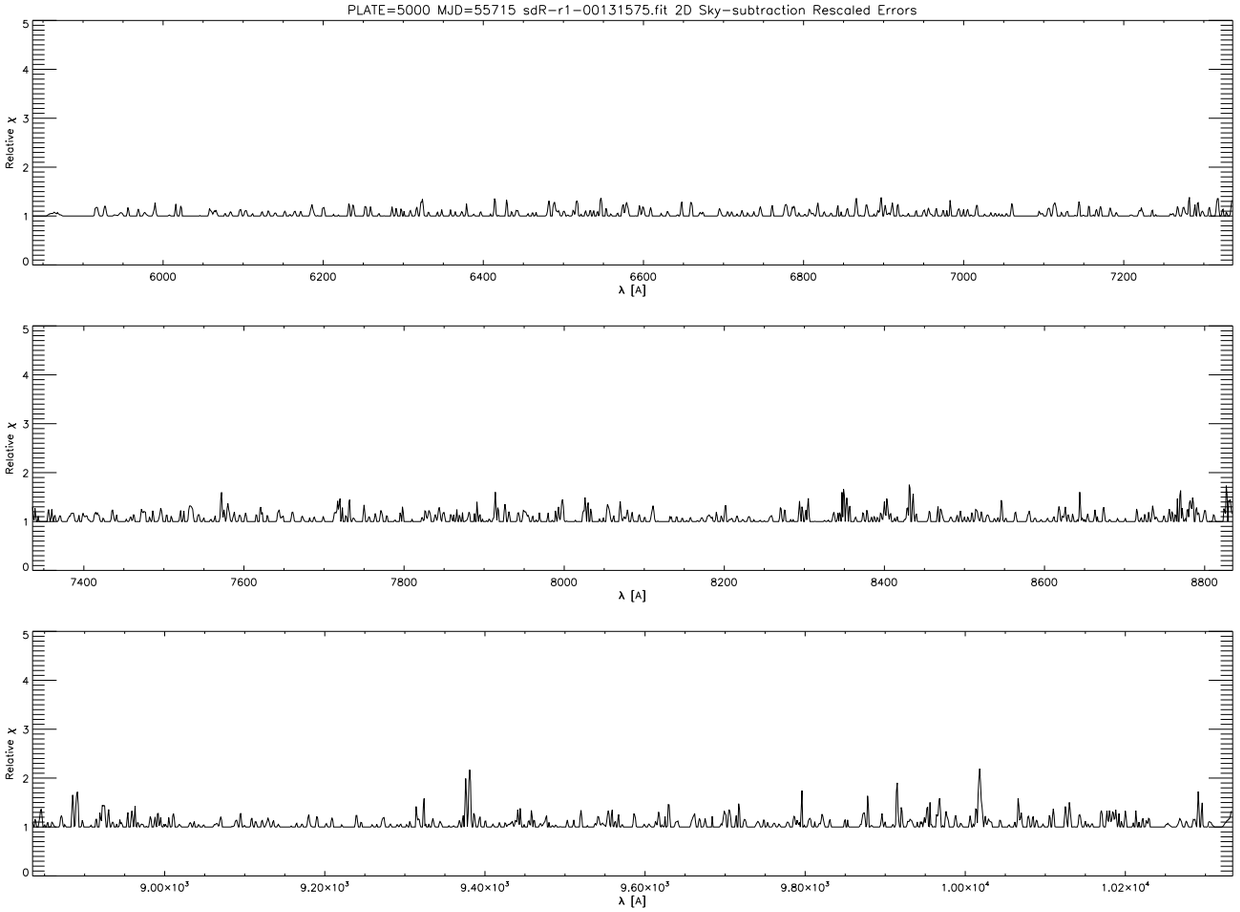


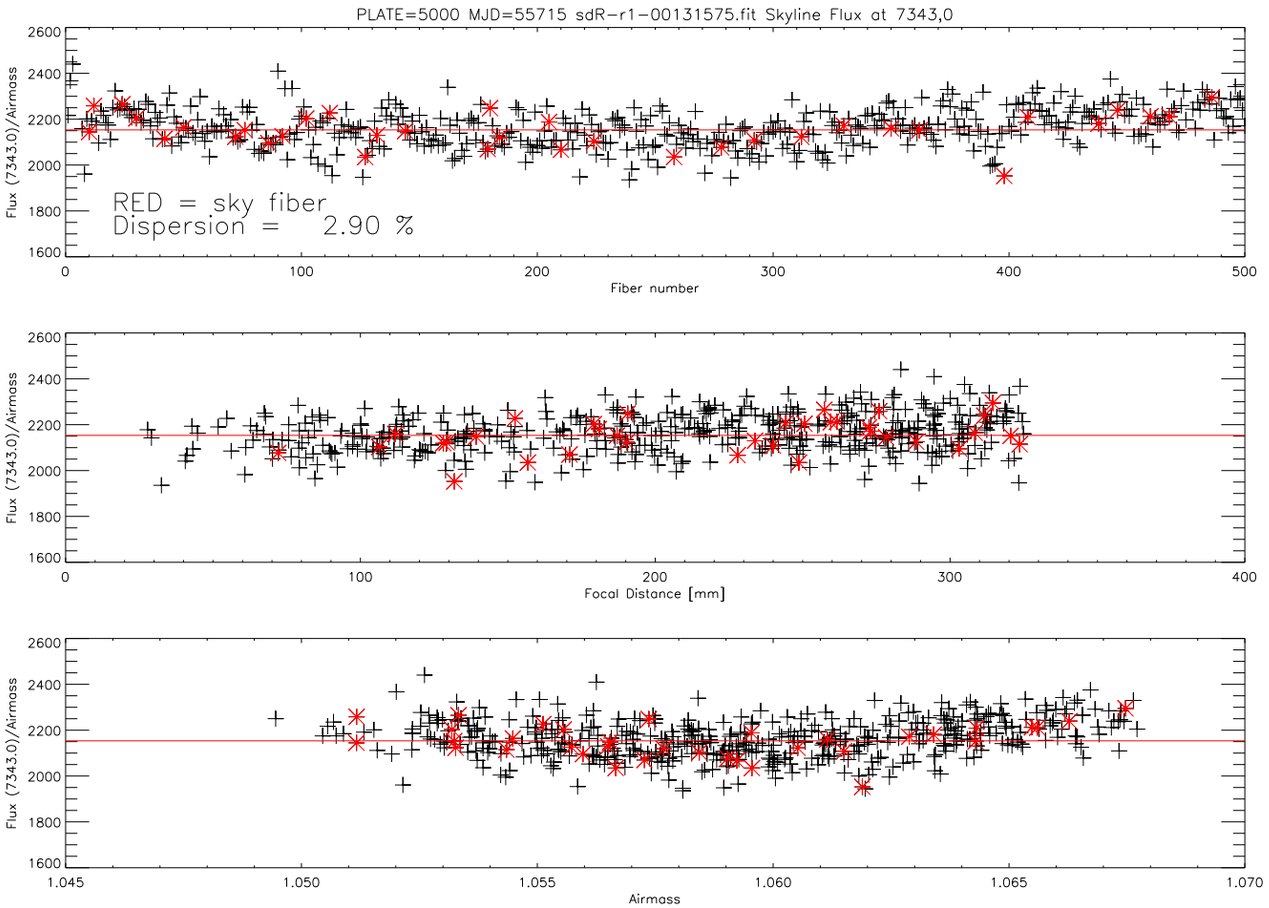

PLATE=5000 MJD=55715 sdR-r1-00131575.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

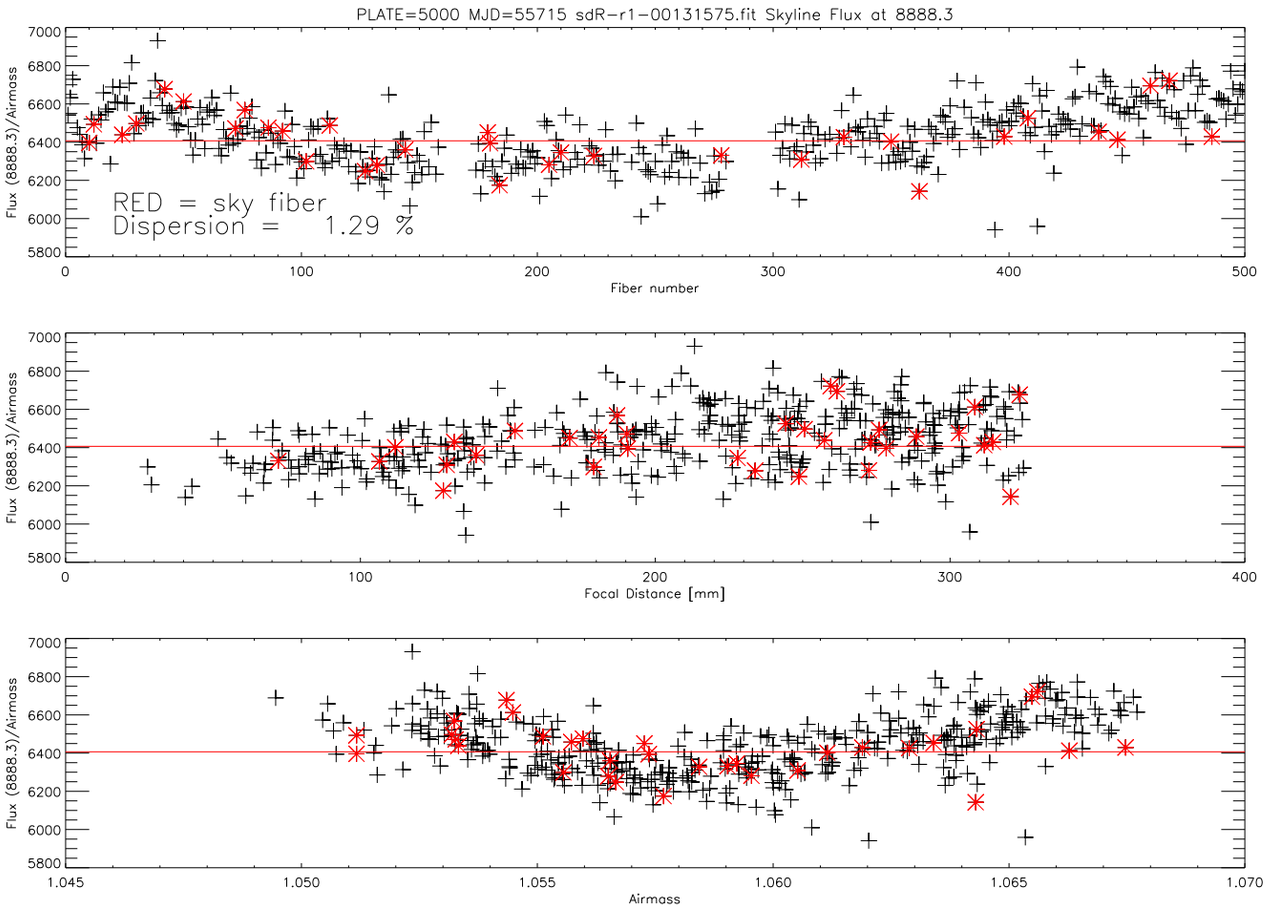

PLATE=5000 MJD=55715 sdR-r1-00131575.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]


PLATE=5000 MJD=55715 sdR-r1-00131575.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

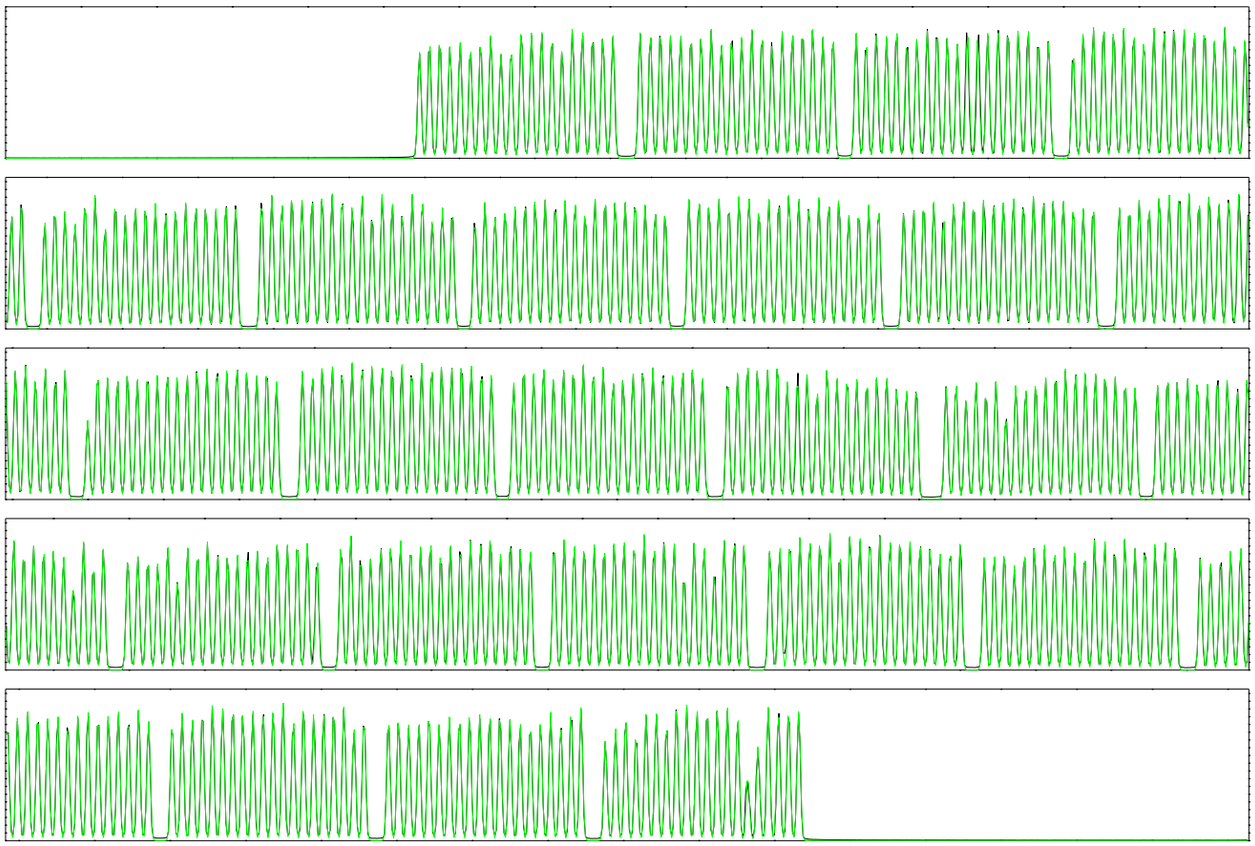
Number of sky fibers = 35

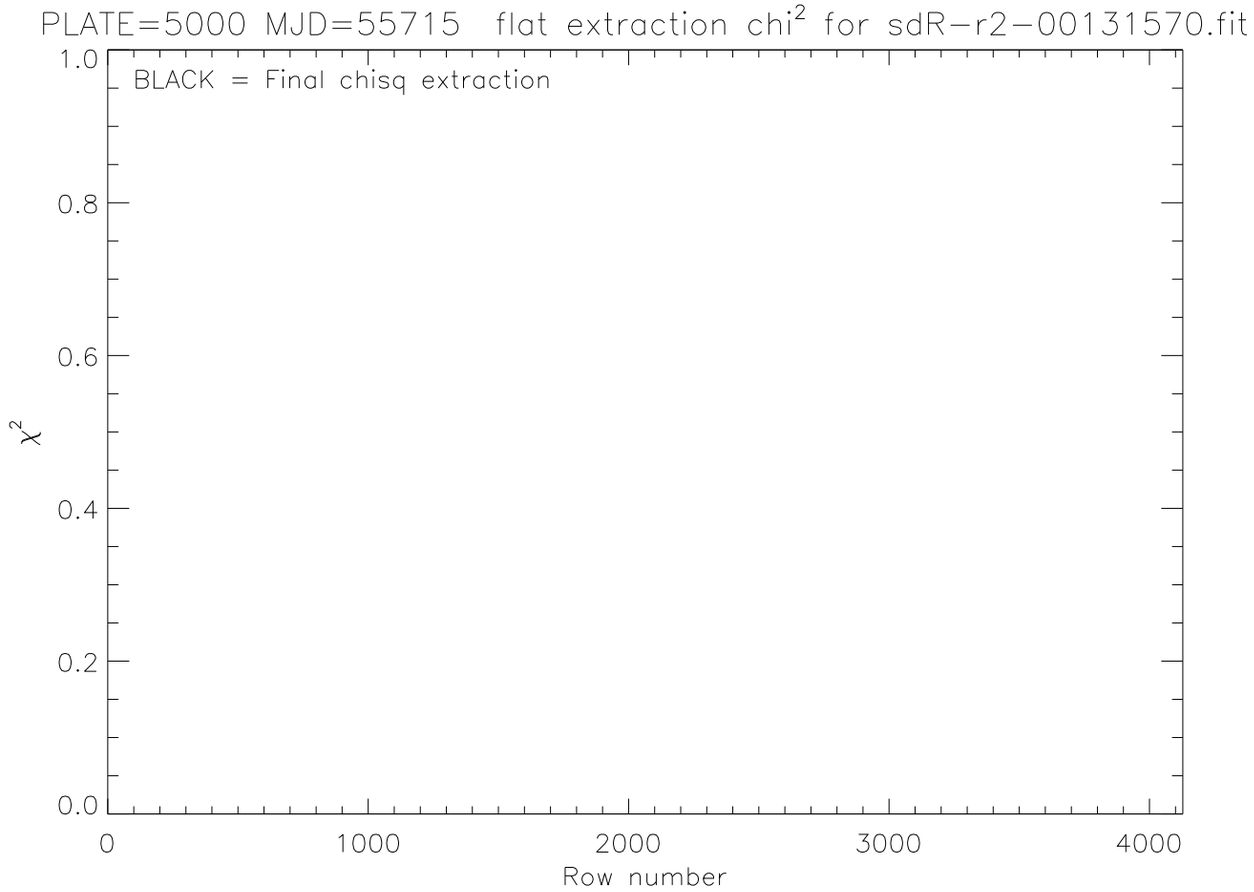


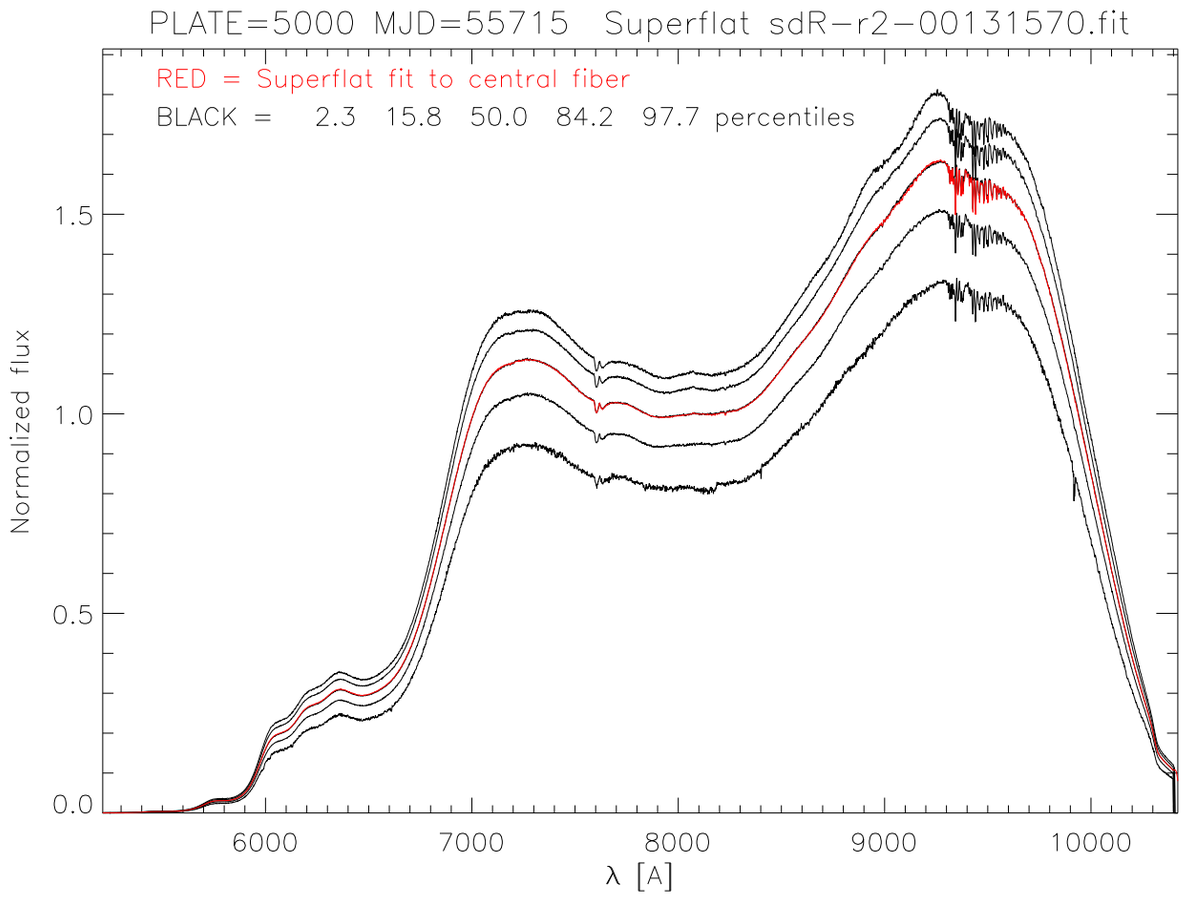

PLATE=5000 MJD=55715 sdR-r1-00131575.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.90 %
Fiber number
Focal Distance [mm]
Airmass

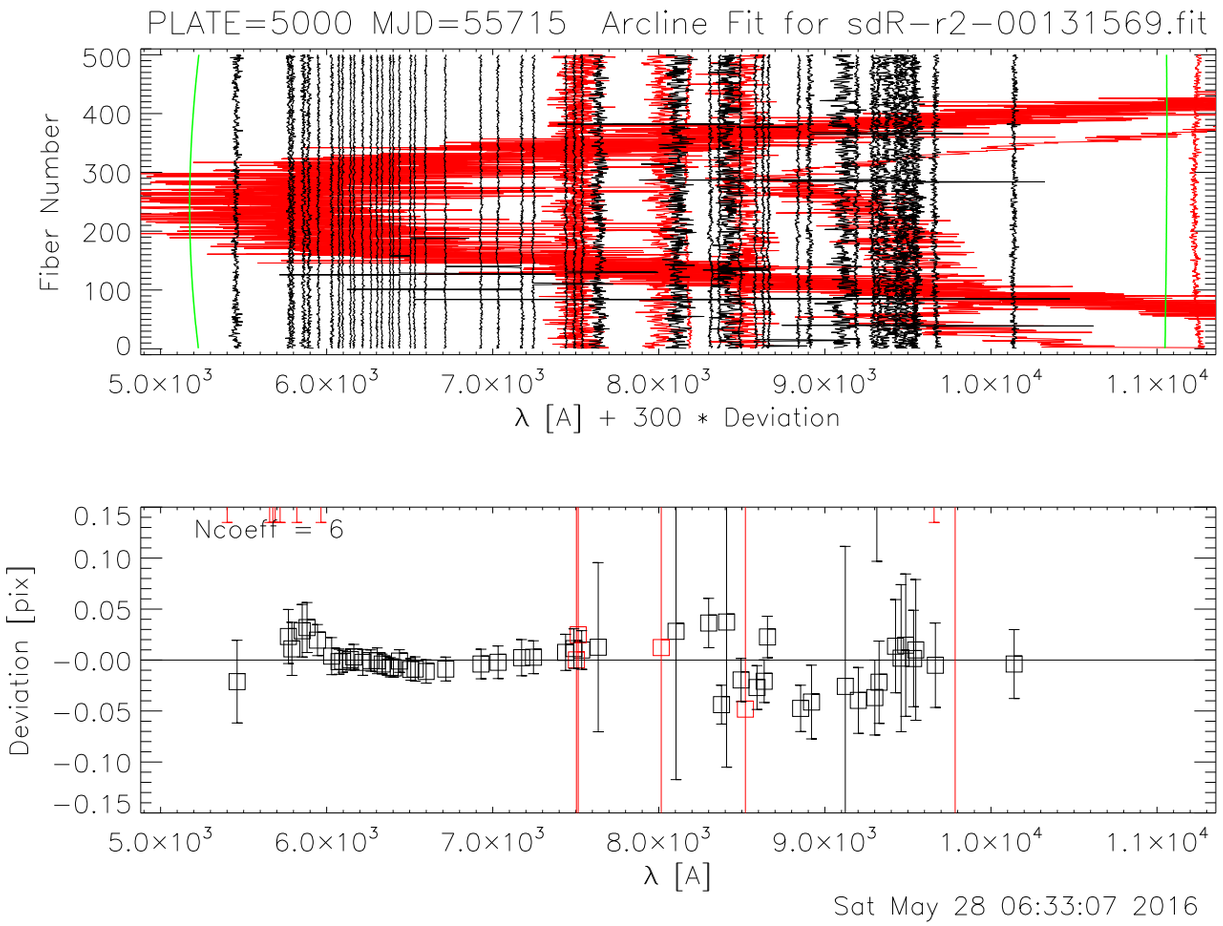

PLATE=5000 MJD=55715 sdR-r1-00131575.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.29 %
Fiber number
Focal Distance [mm]
Airmass

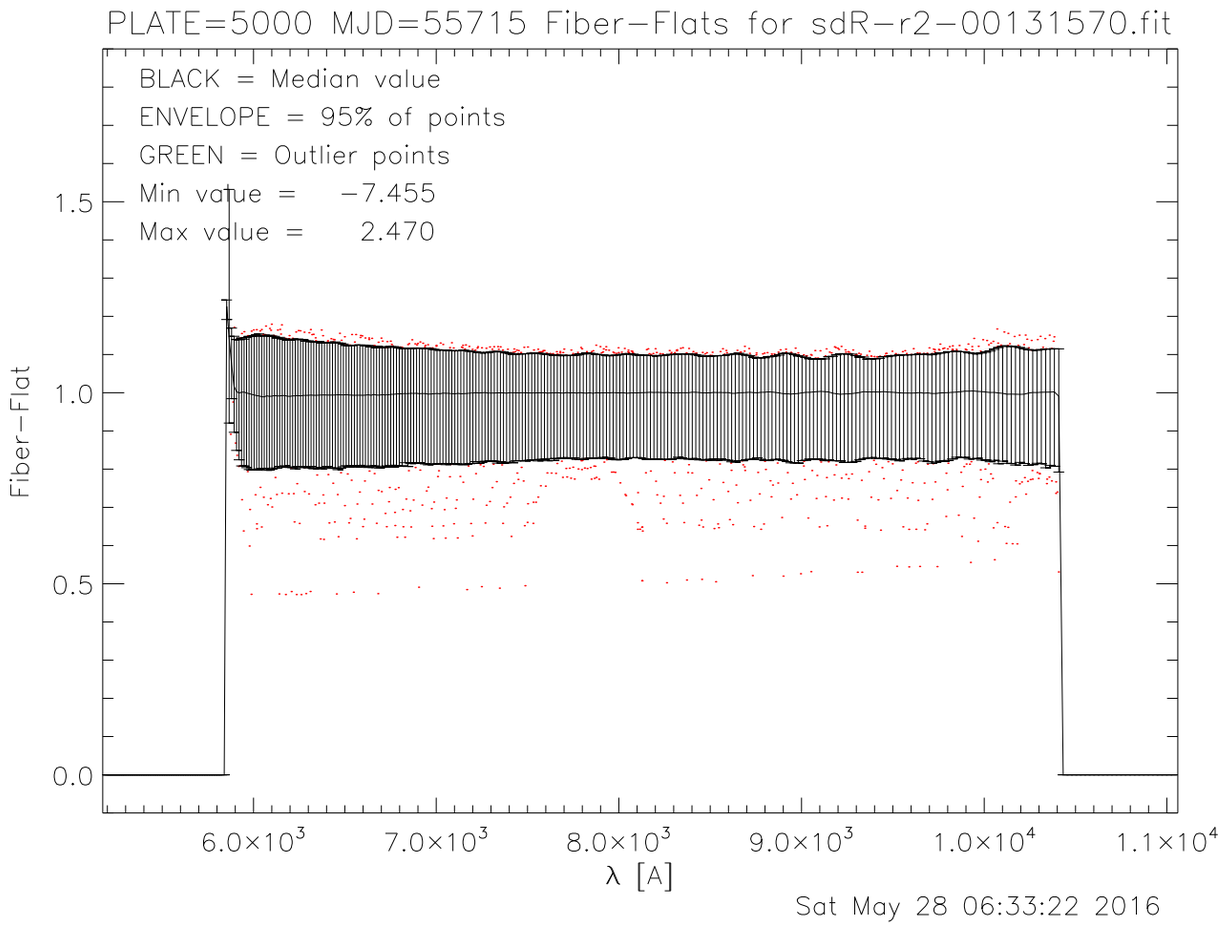
PLATE=5000 MJD=55715 Traces sdR-r2-00131570.fit

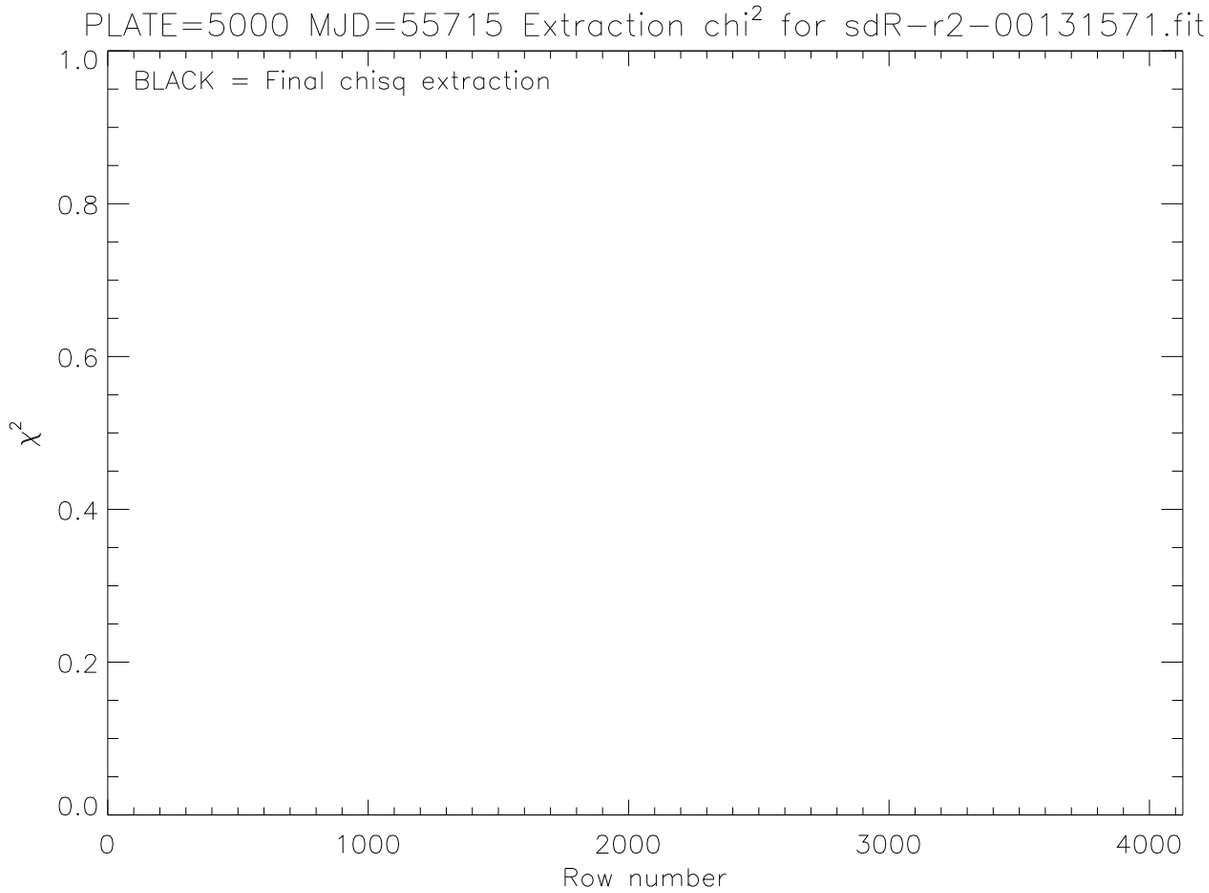


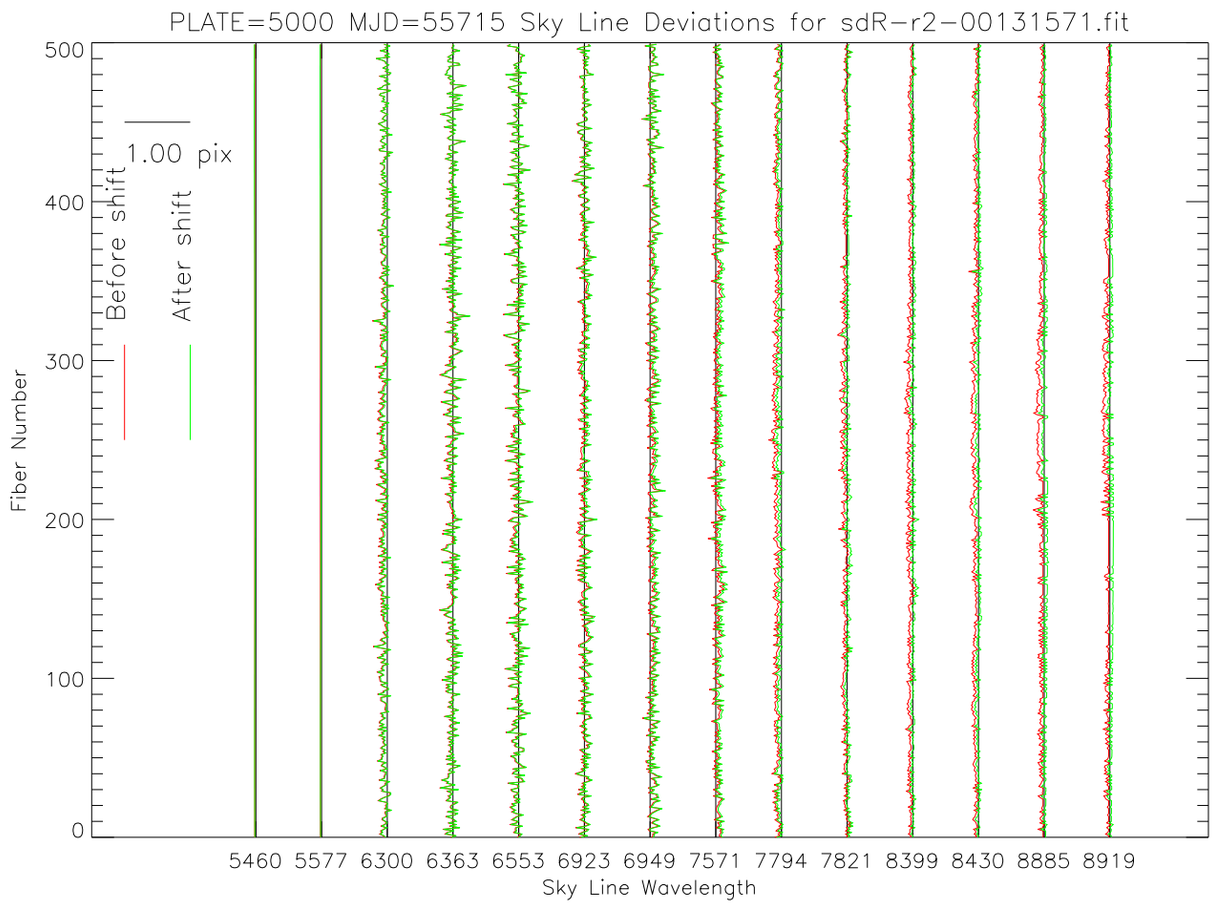

PLATE=5000 MJD=55715 flat extraction chi^2 for sdR-r2-00131570.fit
BLACK = Final chisq extraction
χ^2
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
Row number

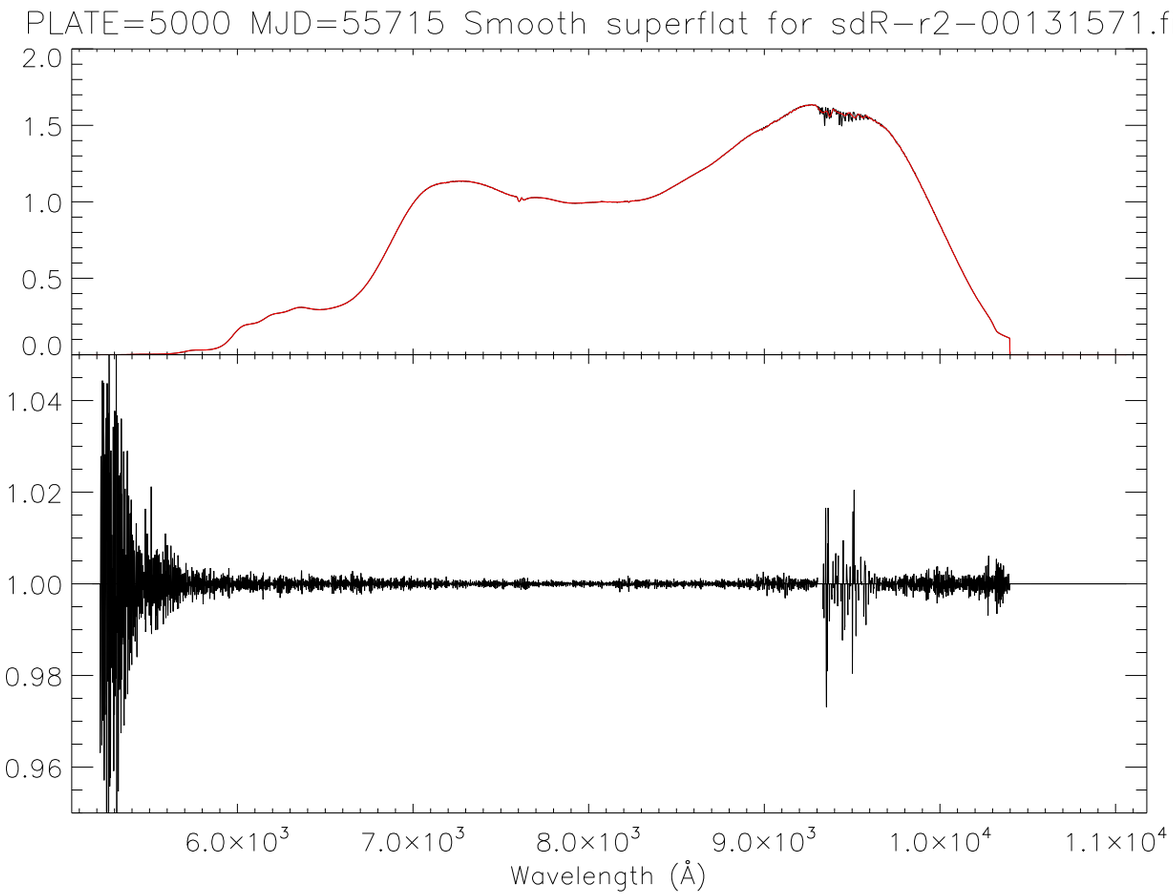

PLATE=5000 MJD=55715 Superflat sdR-r2-00131570.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
0.0
0.5
1.0
1.5
6000
7000
8000
9000
10000
λ [A]

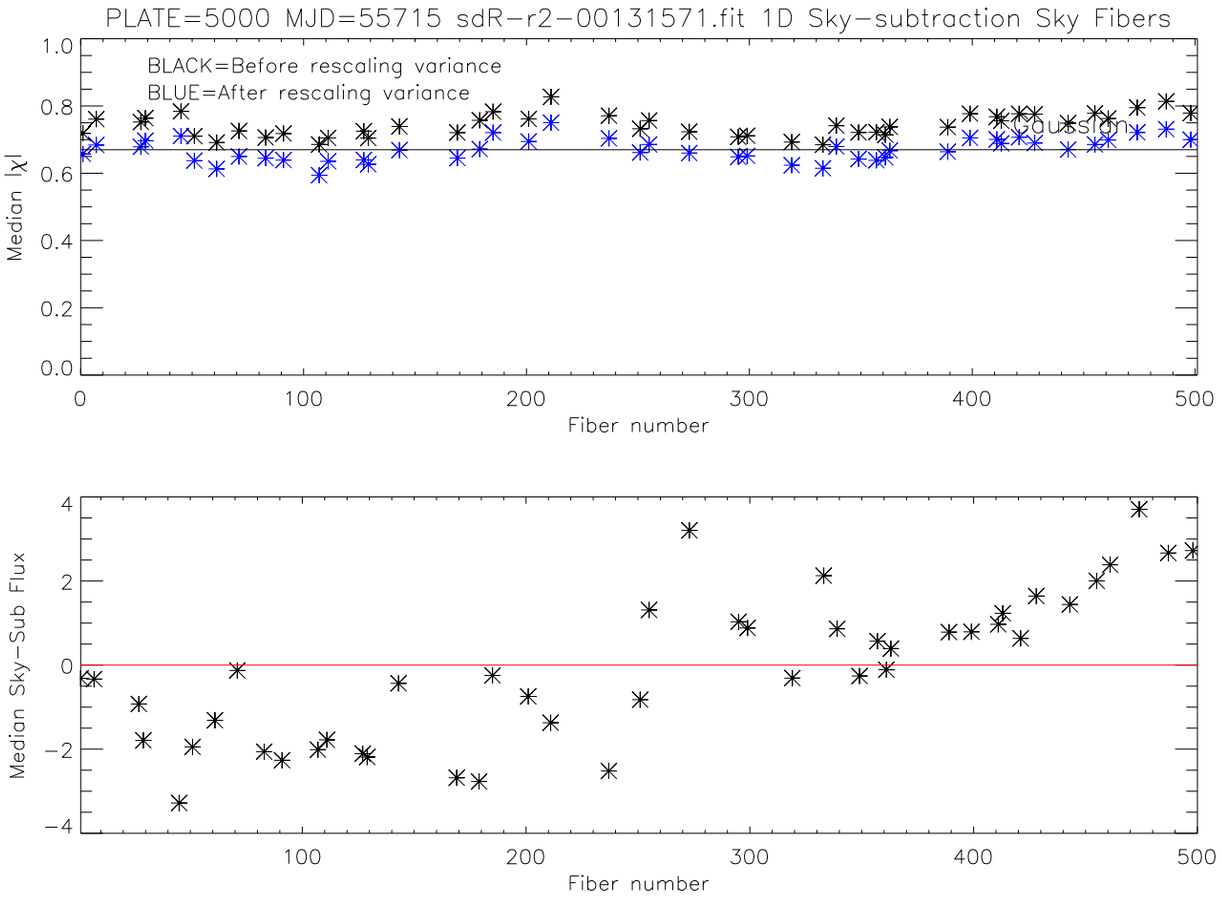

PLATE=5000 MJD=55715 Arcline Fit for sdR-r2-00131569.fit
Fiber Number
500
400
300
200
100
0
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A] + 300 * Deviation
Ncoeff = 6
Deviation [pix]
0.15
0.10
0.05
−0.00
−0.05
−0.10
−0.15
λ [A]
Sat May 28 06:33:07 2016

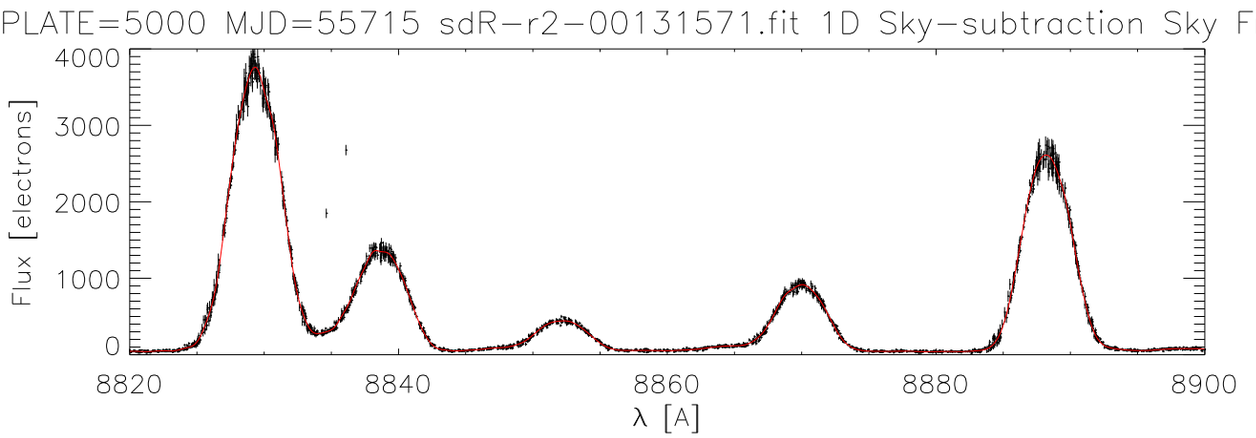

PLATE=5000 MJD=55715 Fiber−Flats for sdR−r2−00131570.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −7.455
Max value = 2.470
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Sat May 28 06:33:22 2016

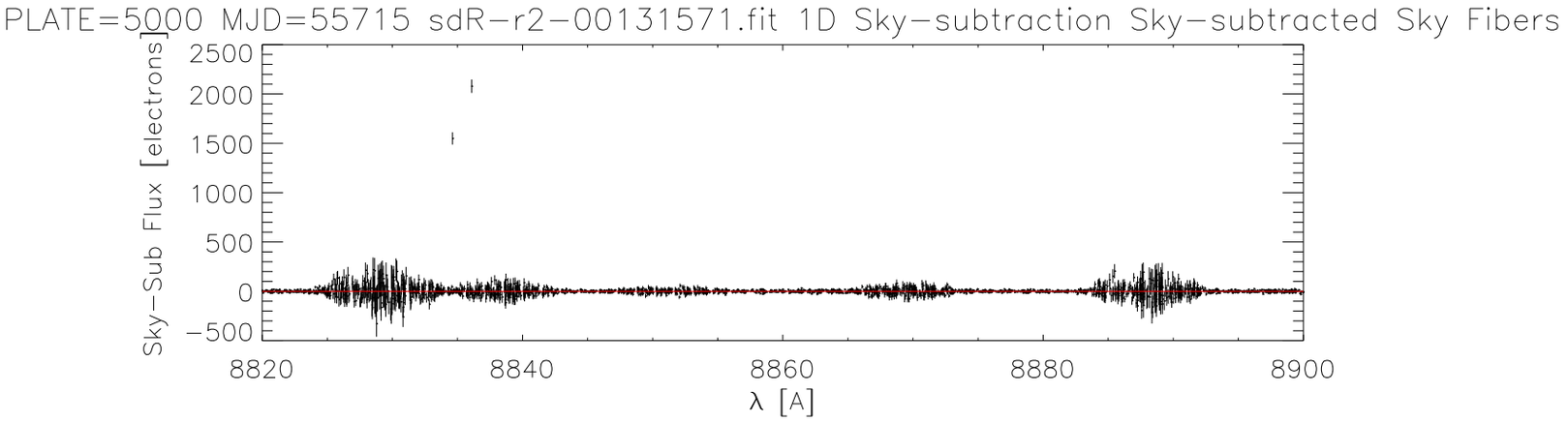

PLATE=5000 MJD=55715 Extraction chi^2 for sdR−r2−00131571.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=5000 MJD=55715 Sky Line Deviations for sdR-r2-00131571.fit
1.00 pix
Before shift
After shift
Fiber Number
0
100
200
300
400
500
5460 5577 6300 6363 6553 6923 6949 7571 7794 7821 8399 8430 8885 8919
Sky Line Wavelength

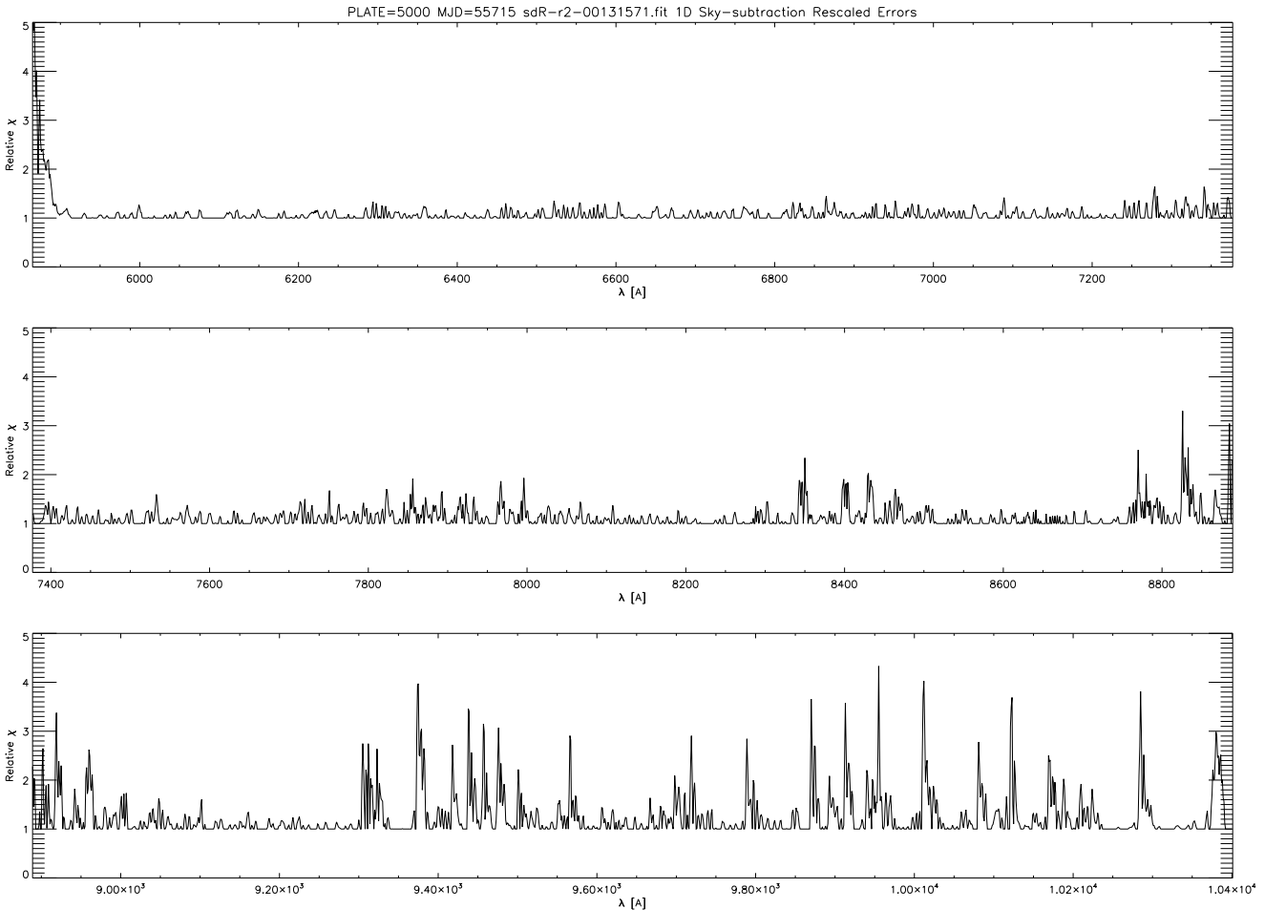

PLATE=5000 MJD=55715 Smooth superflat for sdR-r2-00131571.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

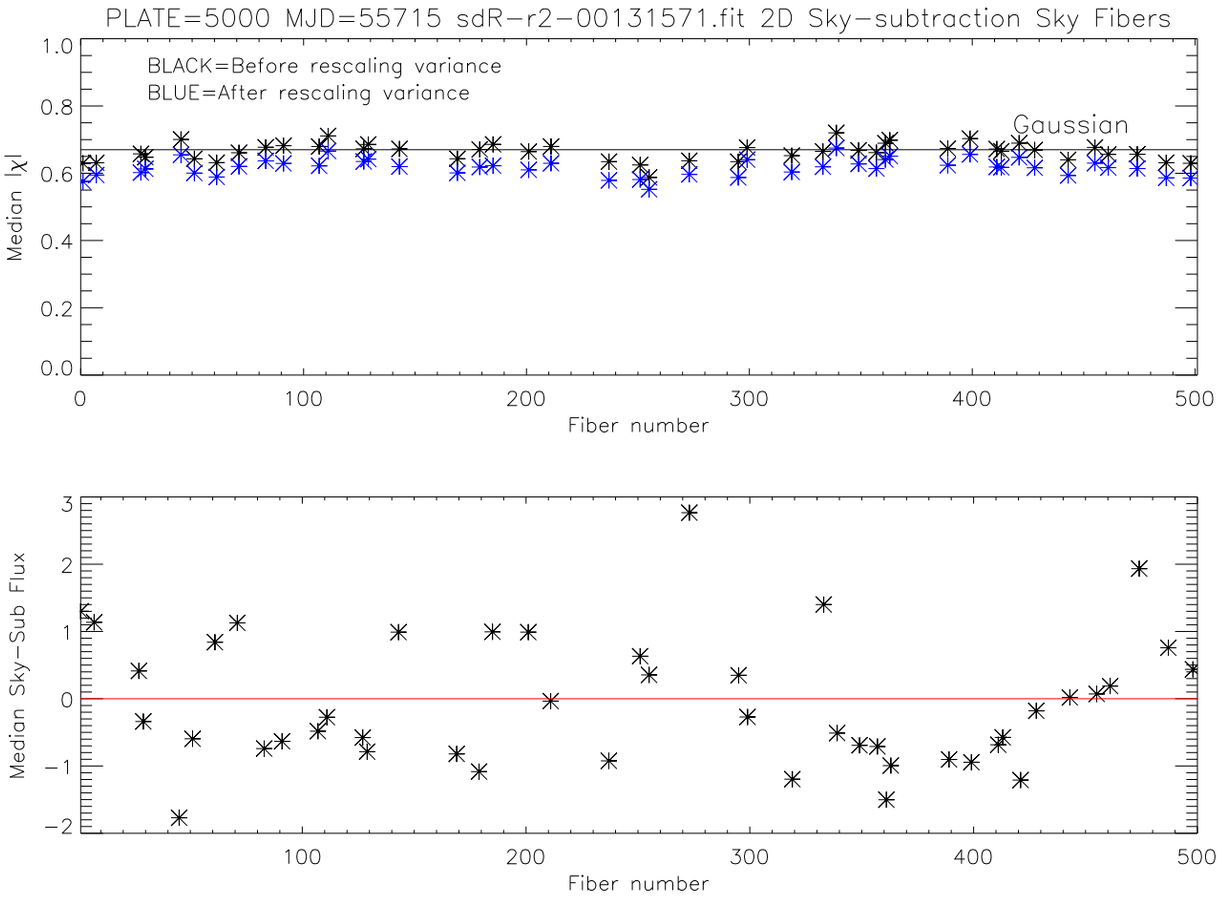

PLATE=5000 MJD=55715 sdR-r2-00131571.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

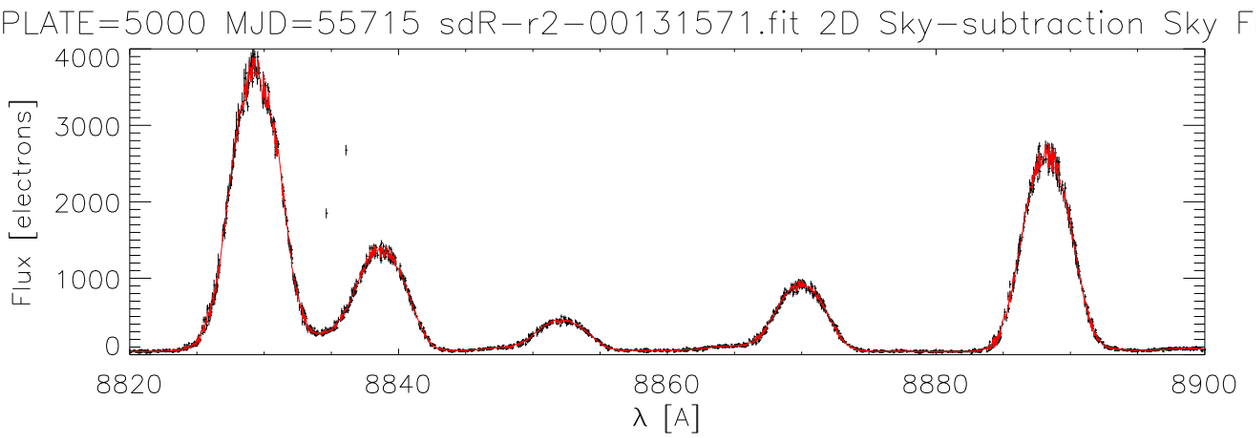

PLATE=5000 MJD=55715 sdR-r2-00131571.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

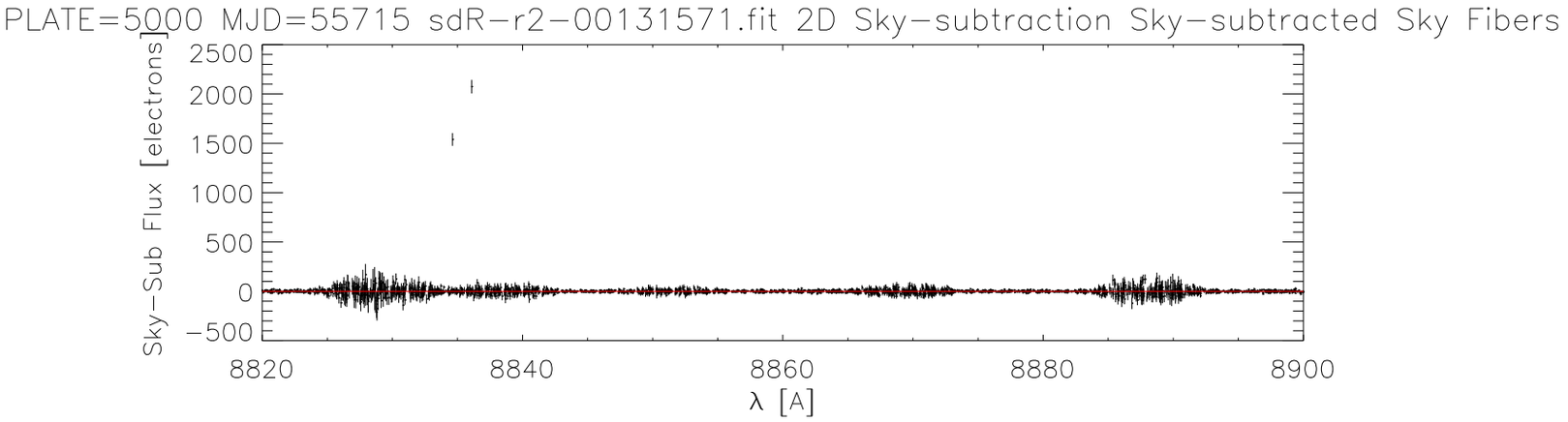

PLATE=5000 MJD=55715 sdR-r2-00131571.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
2500
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 45

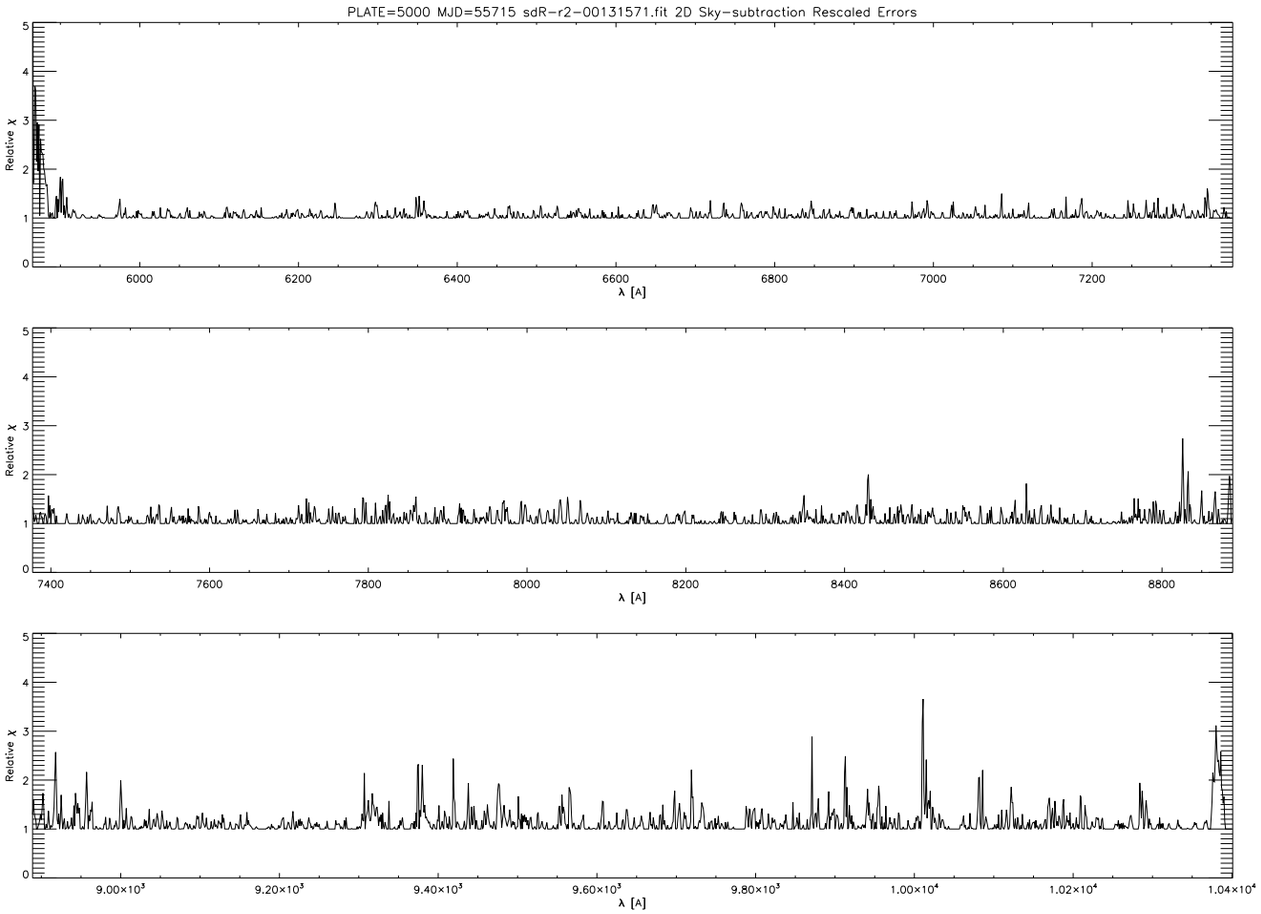


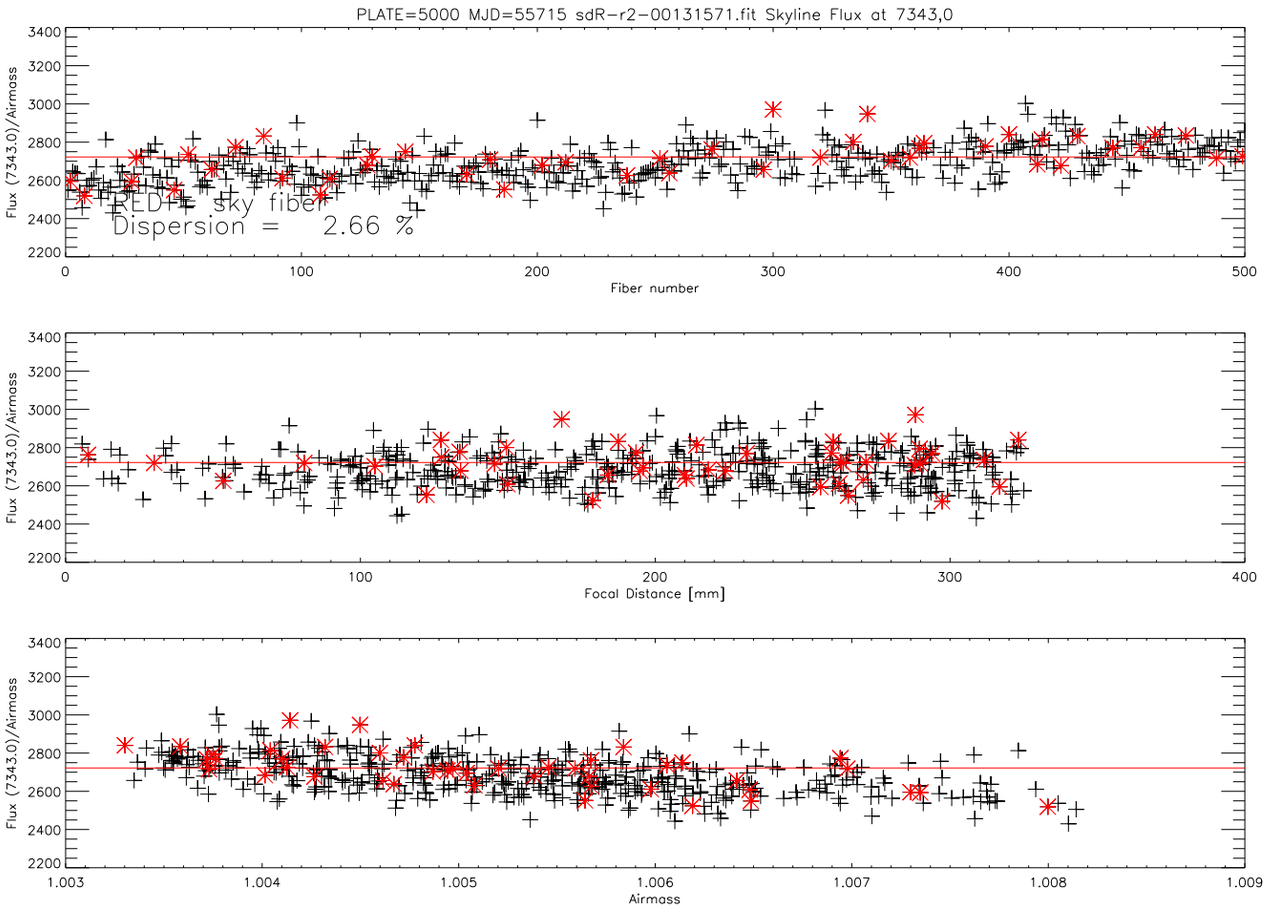

PLATE=5000 MJD=55715 sdR-r2-00131571.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

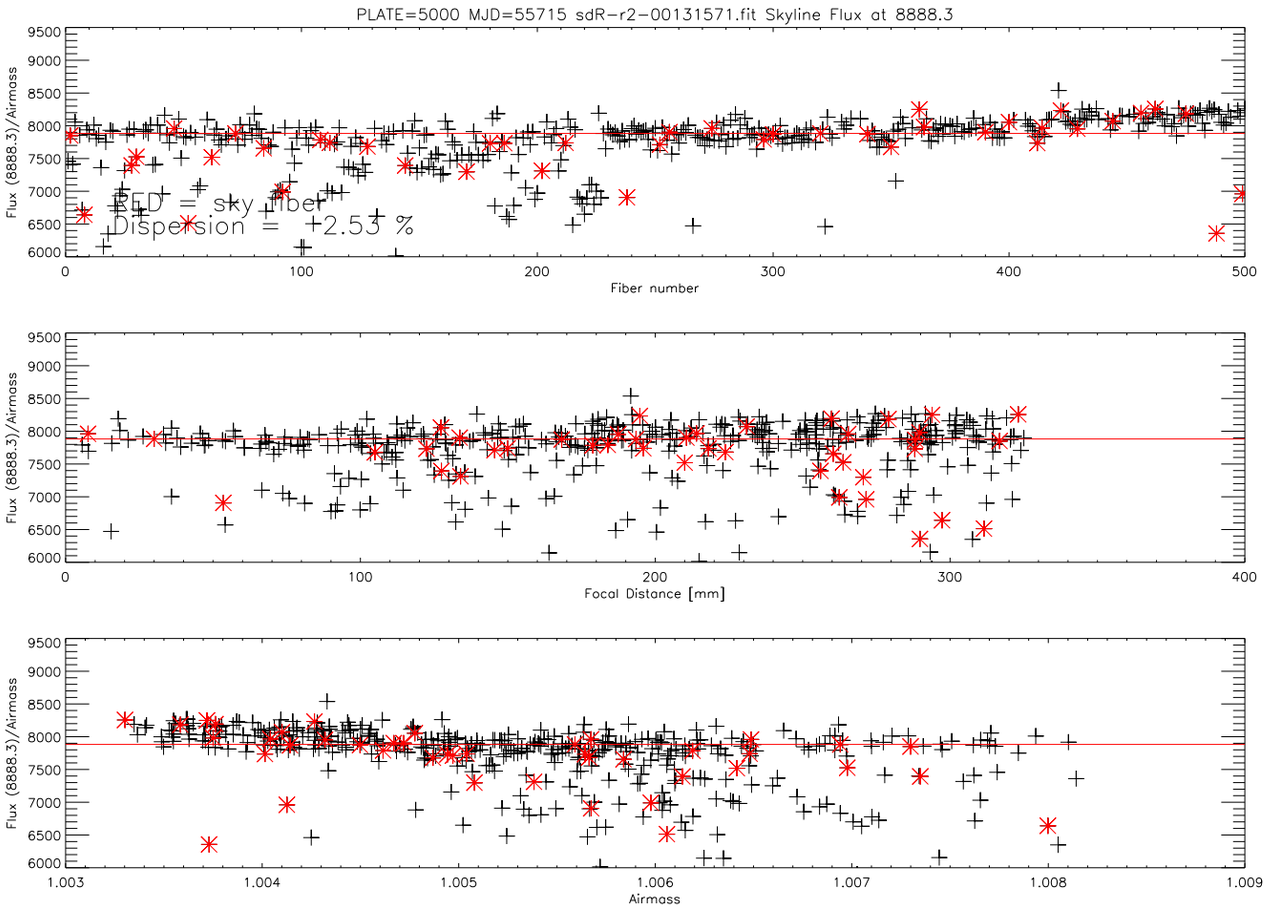

PLATE=5000 MJD=55715 sdR-r2-00131571.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

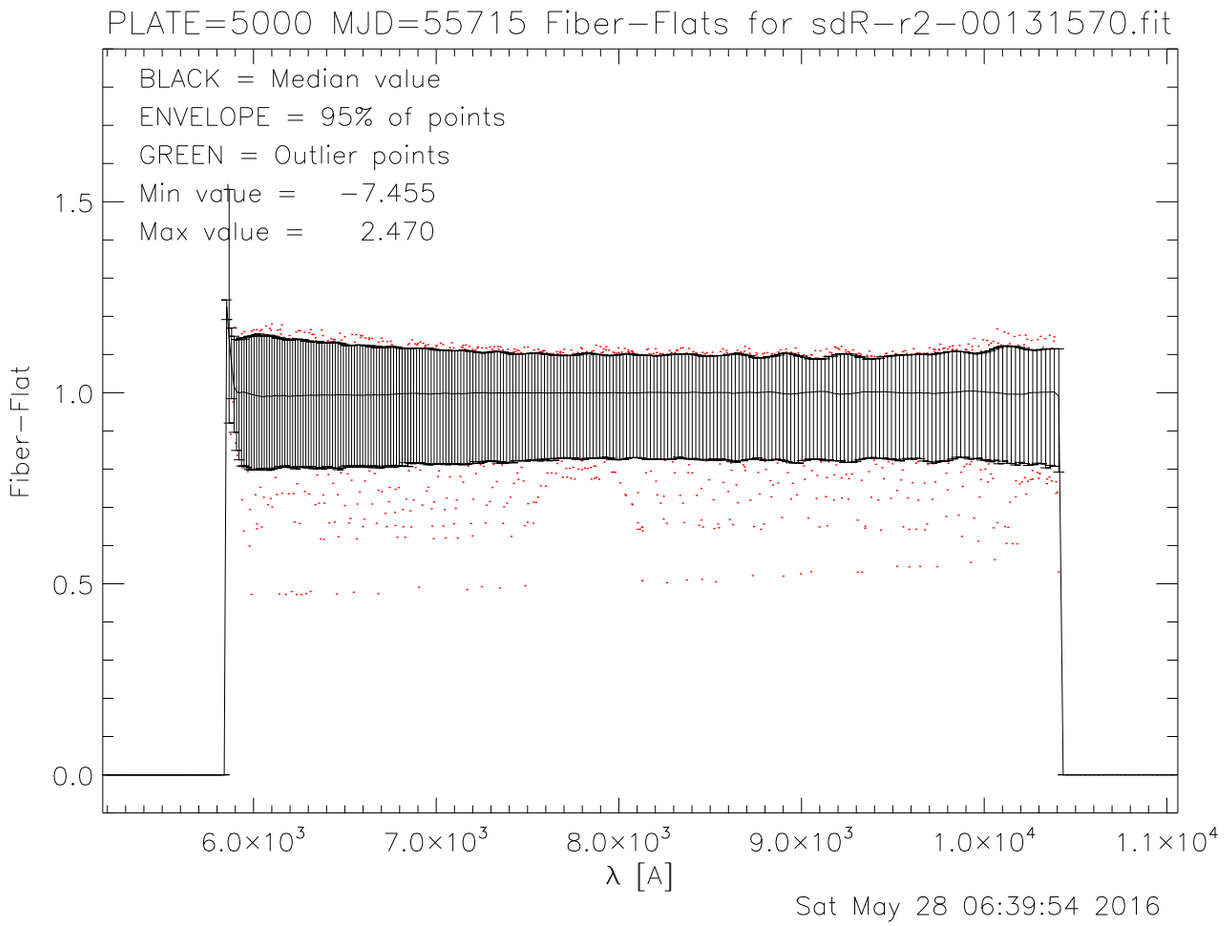

PLATE=5000 MJD=55715 sdR-r2-00131571.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
2500
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

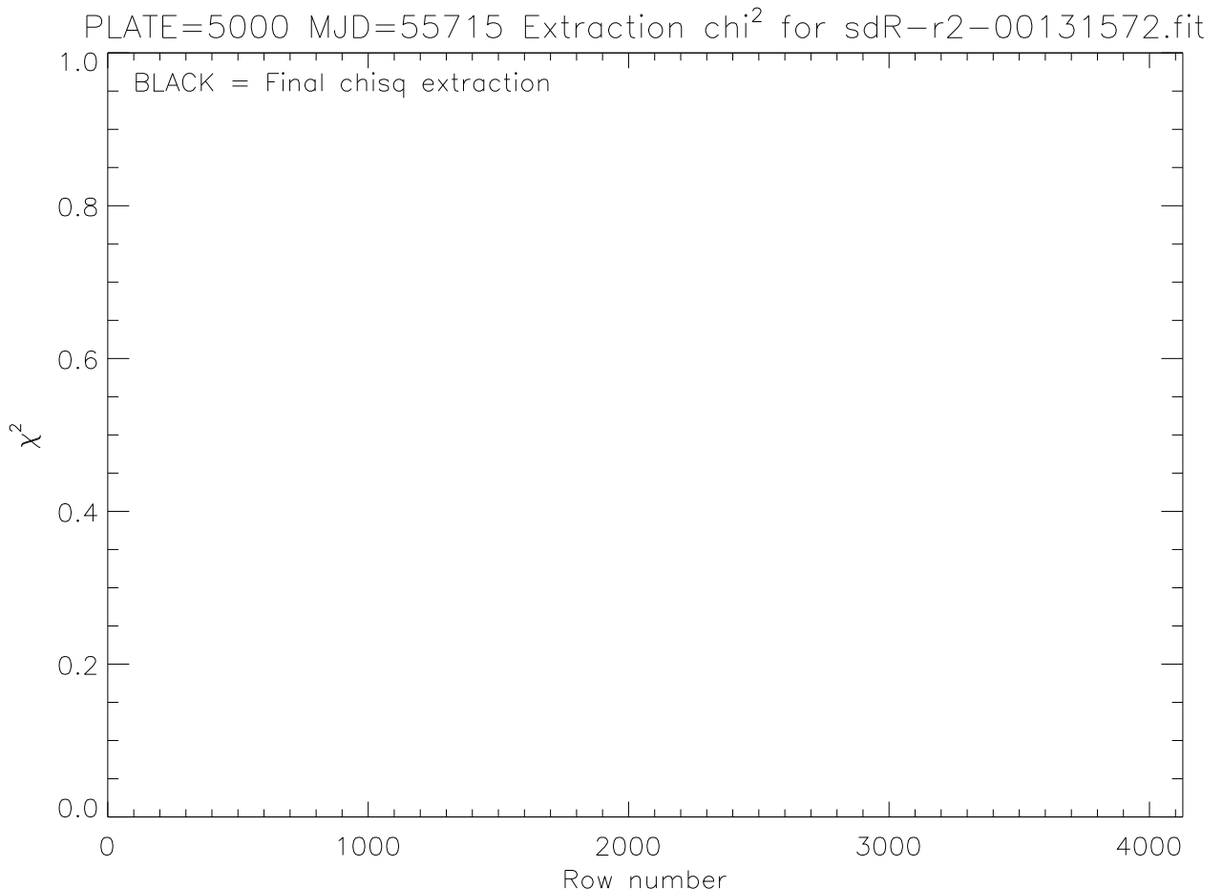
Number of sky fibers = 45

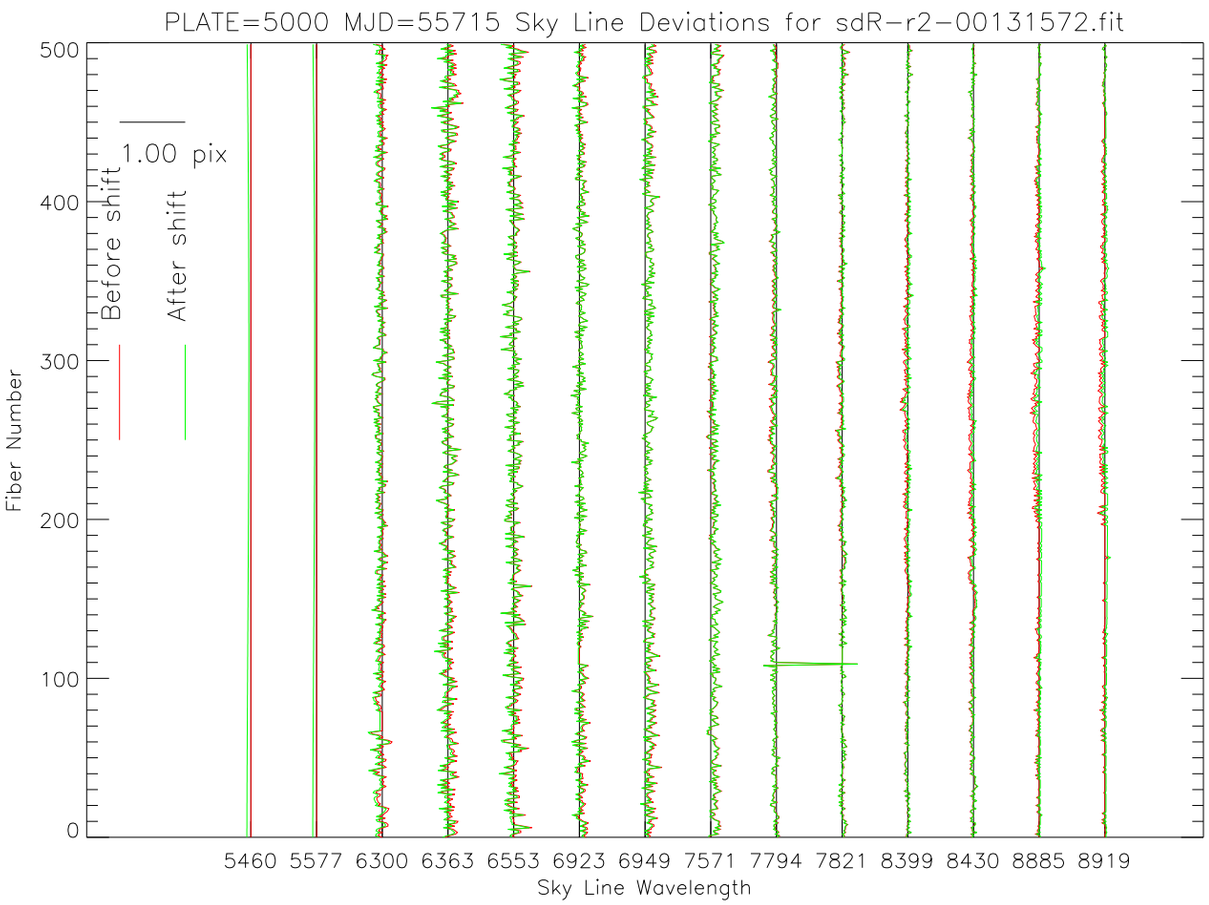


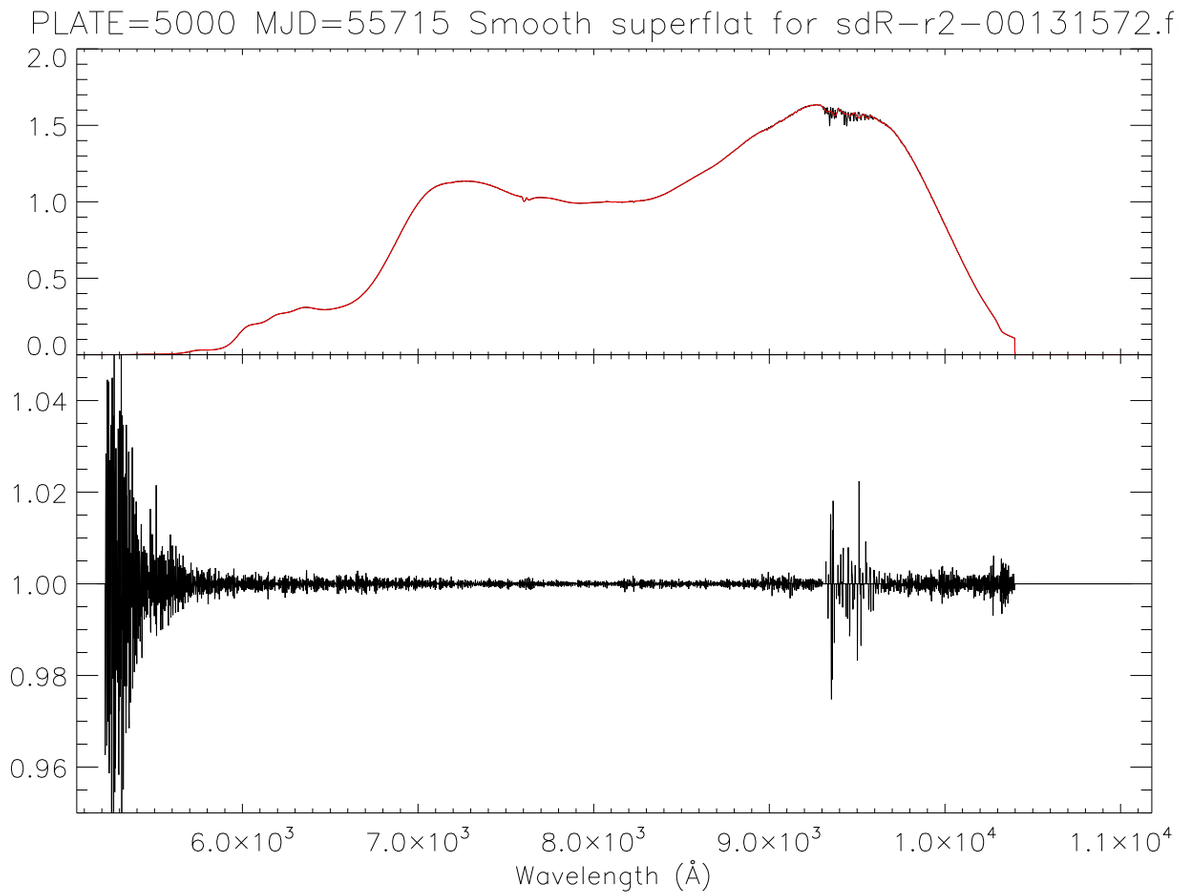

PLATE=5000 MJD=55715 sdR-r2-00131571.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
SKED sky fiber
Dispersion = 2.66 %
Focal Distance [mm]
Airmass

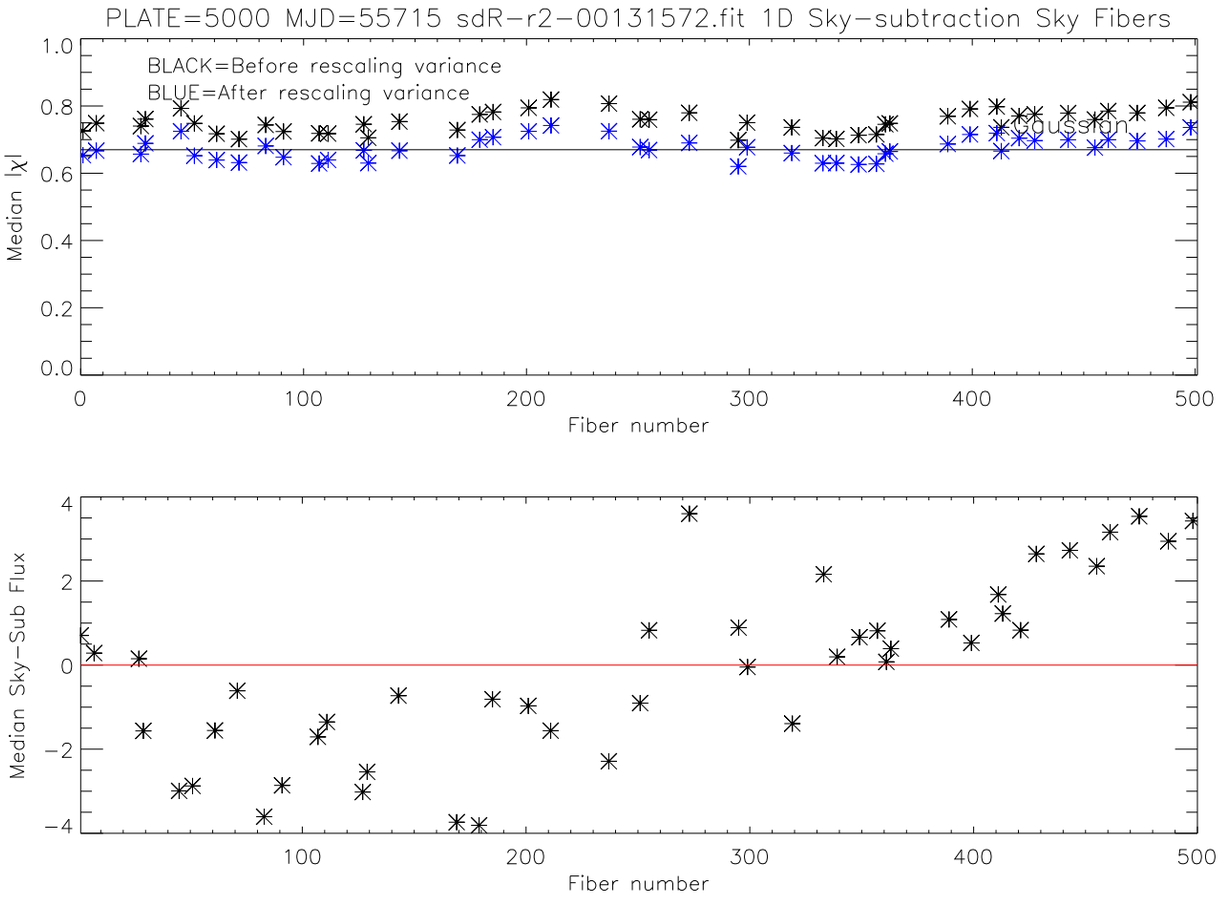

PLATE=5000 MJD=55715 sdR-r2-00131571.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = +2.53 %
Focal Distance [mm]
Airmass

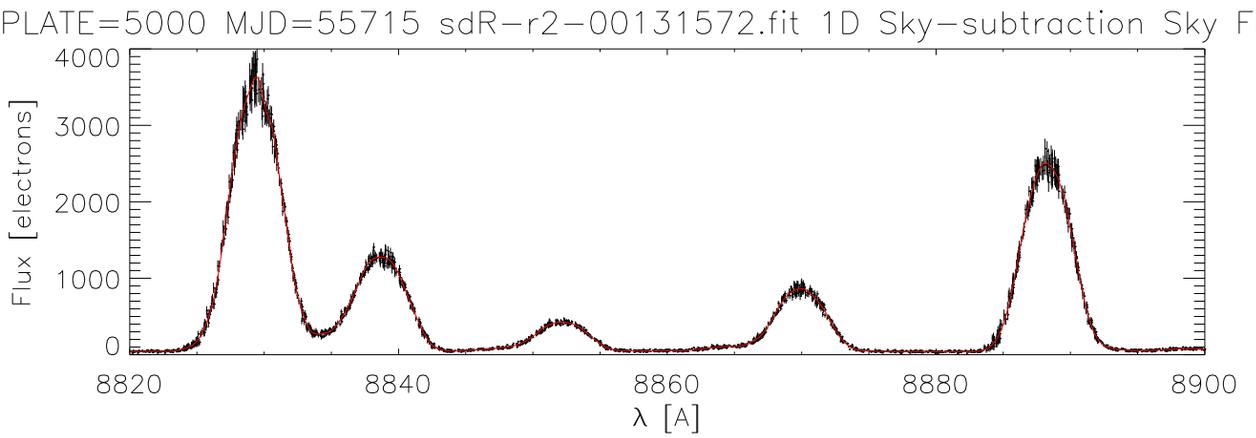

PLATE=5000 MJD=55715 Fiber−Flats for sdR−r2−00131570.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −7.455
Max value = 2.470
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Sat May 28 06:39:54 2016

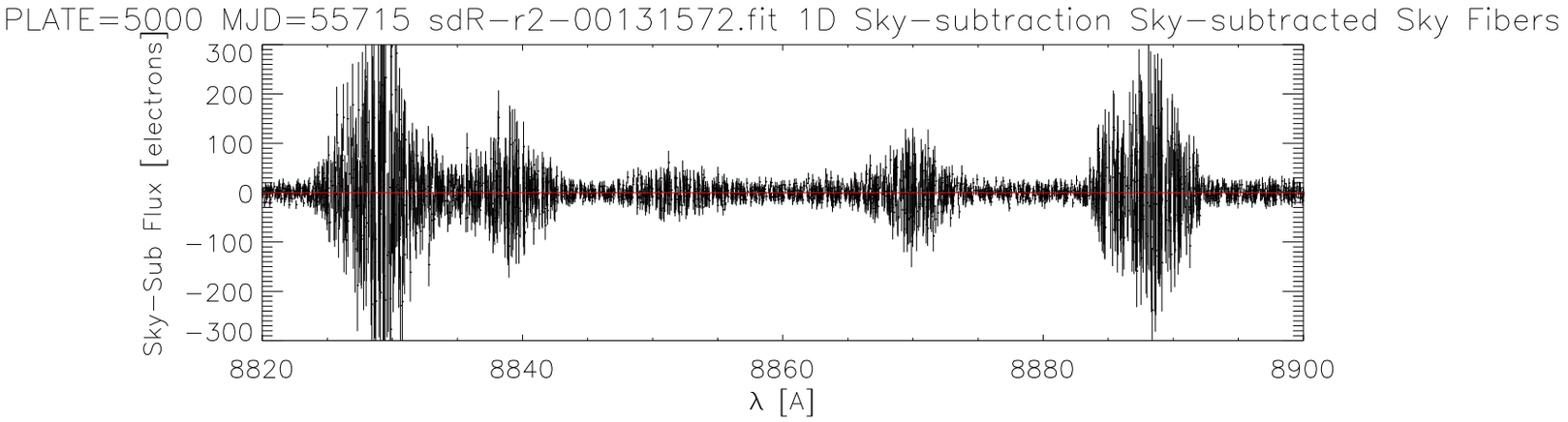

PLATE=5000 MJD=55715 Extraction chi^2 for sdR−r2−00131572.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=5000 MJD=55715 Sky Line Deviations for sdR-r2-00131572.fit
1.00 pix
Before shift
After shift
Fiber Number
0
100
200
300
400
500
5460 5577 6300 6363 6553 6923 6949 7571 7794 7821 8399 8430 8885 8919
Sky Line Wavelength

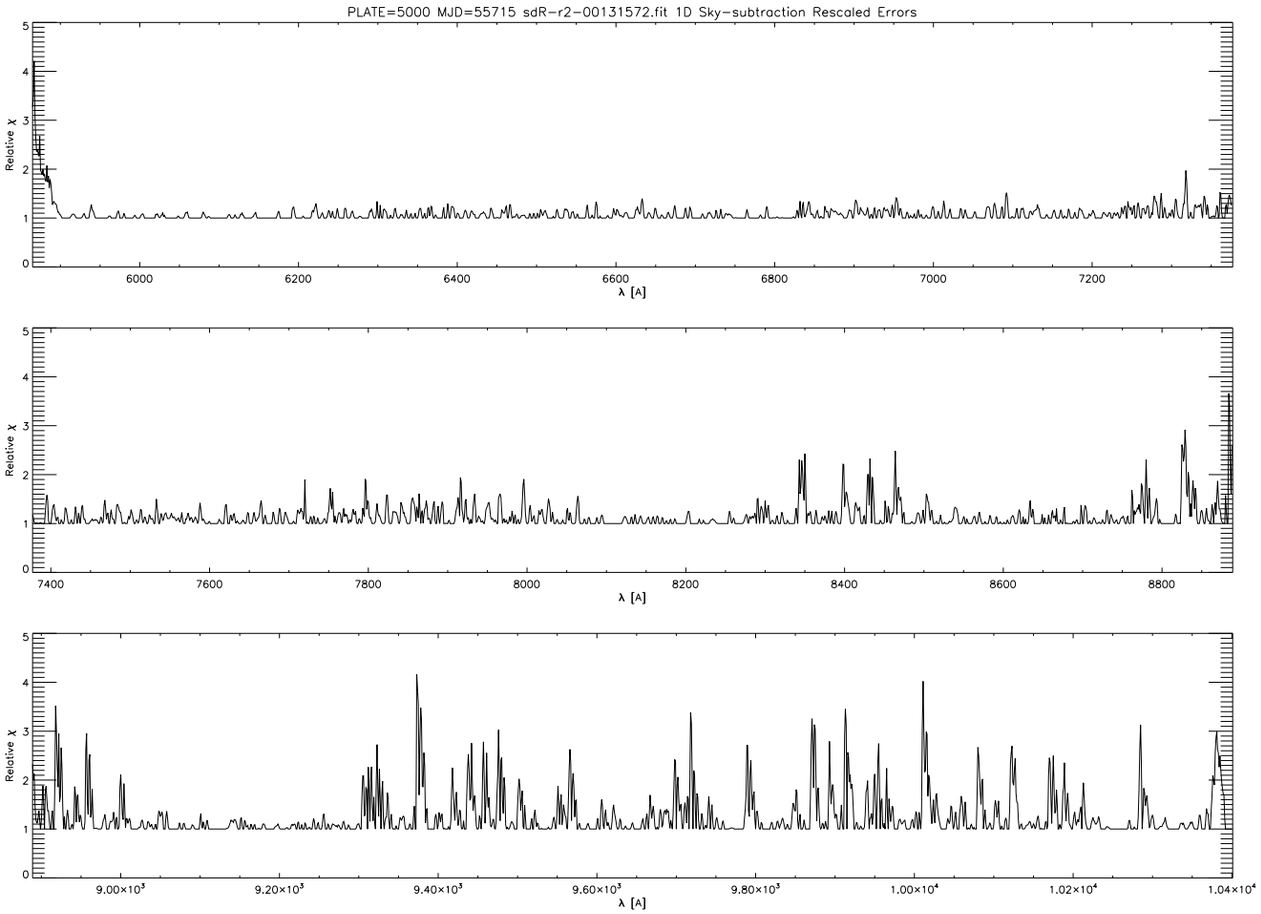

PLATE=5000 MJD=55715 Smooth superflat for sdR-r2-00131572.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

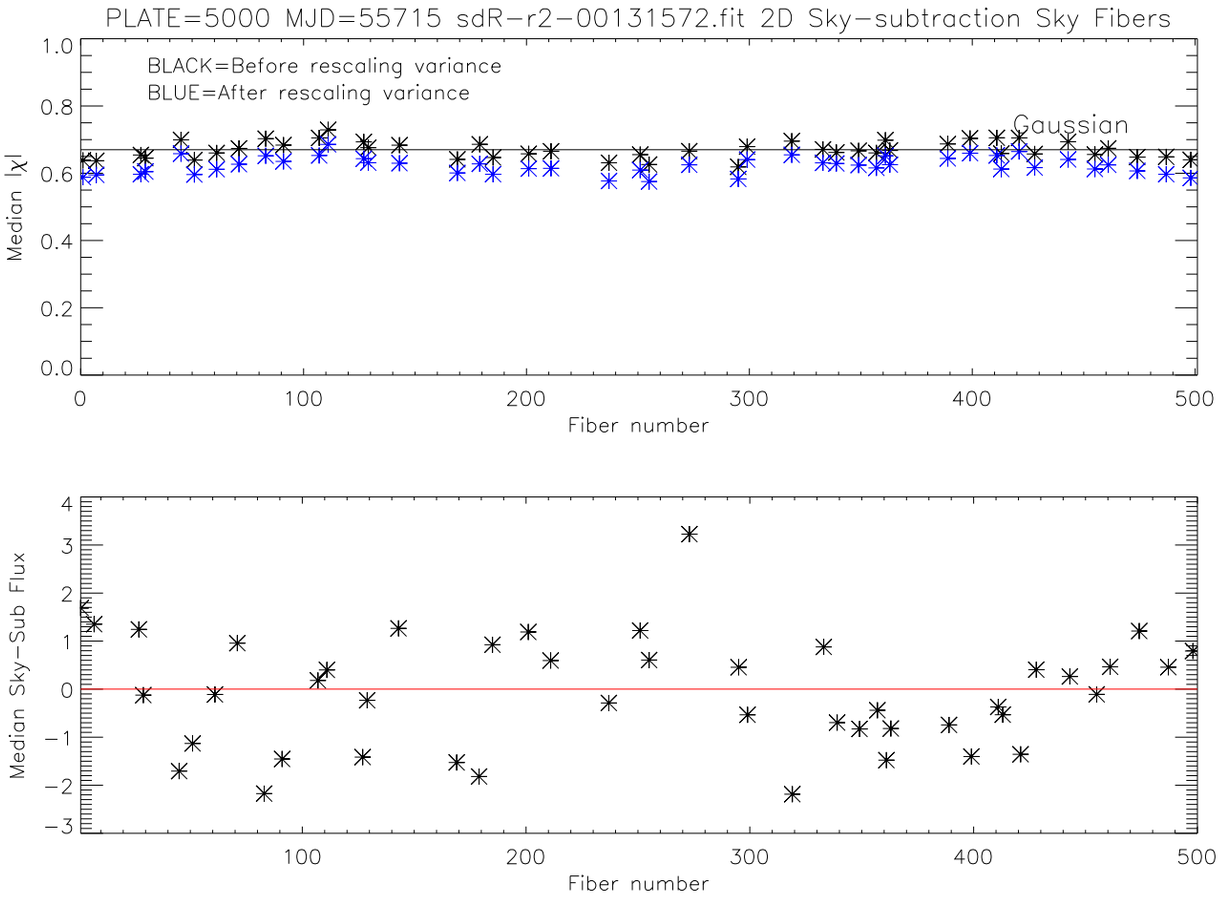

PLATE=5000 MJD=55715 sdR-r2-00131572.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

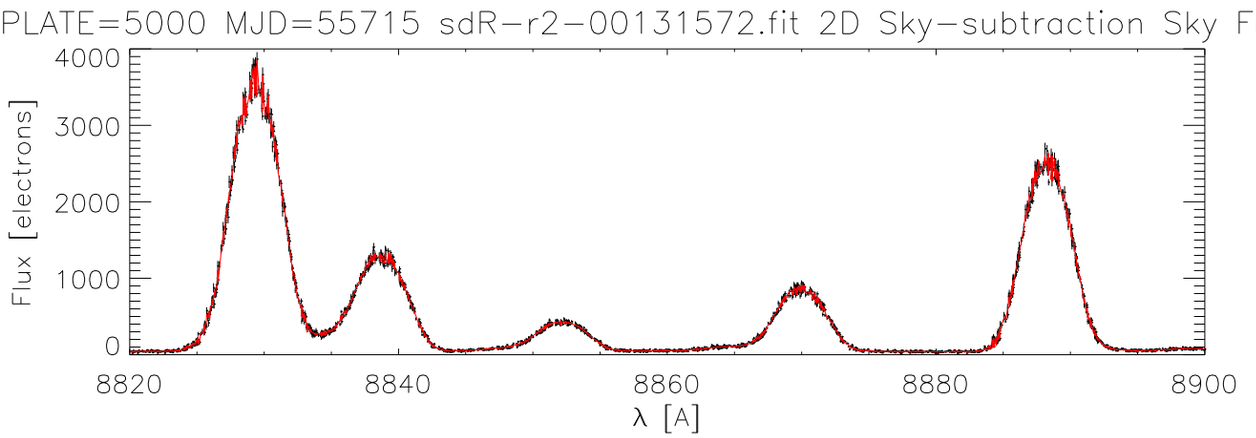

PLATE=5000 MJD=55715 sdR-r2-00131572.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

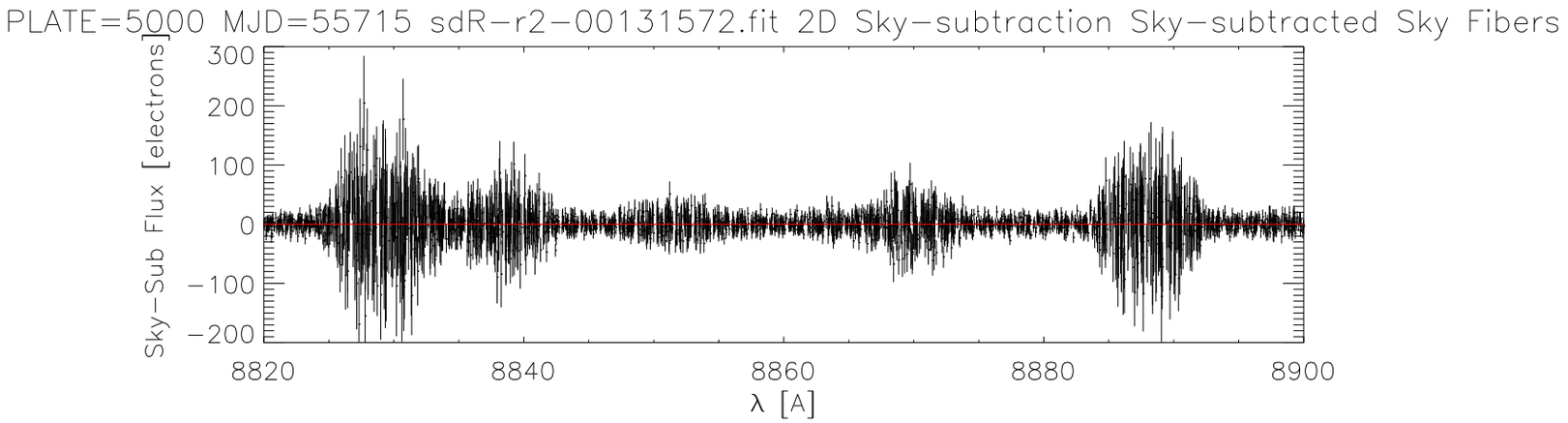

PLATE=5000 MJD=55715 sdR-r2-00131572.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 45

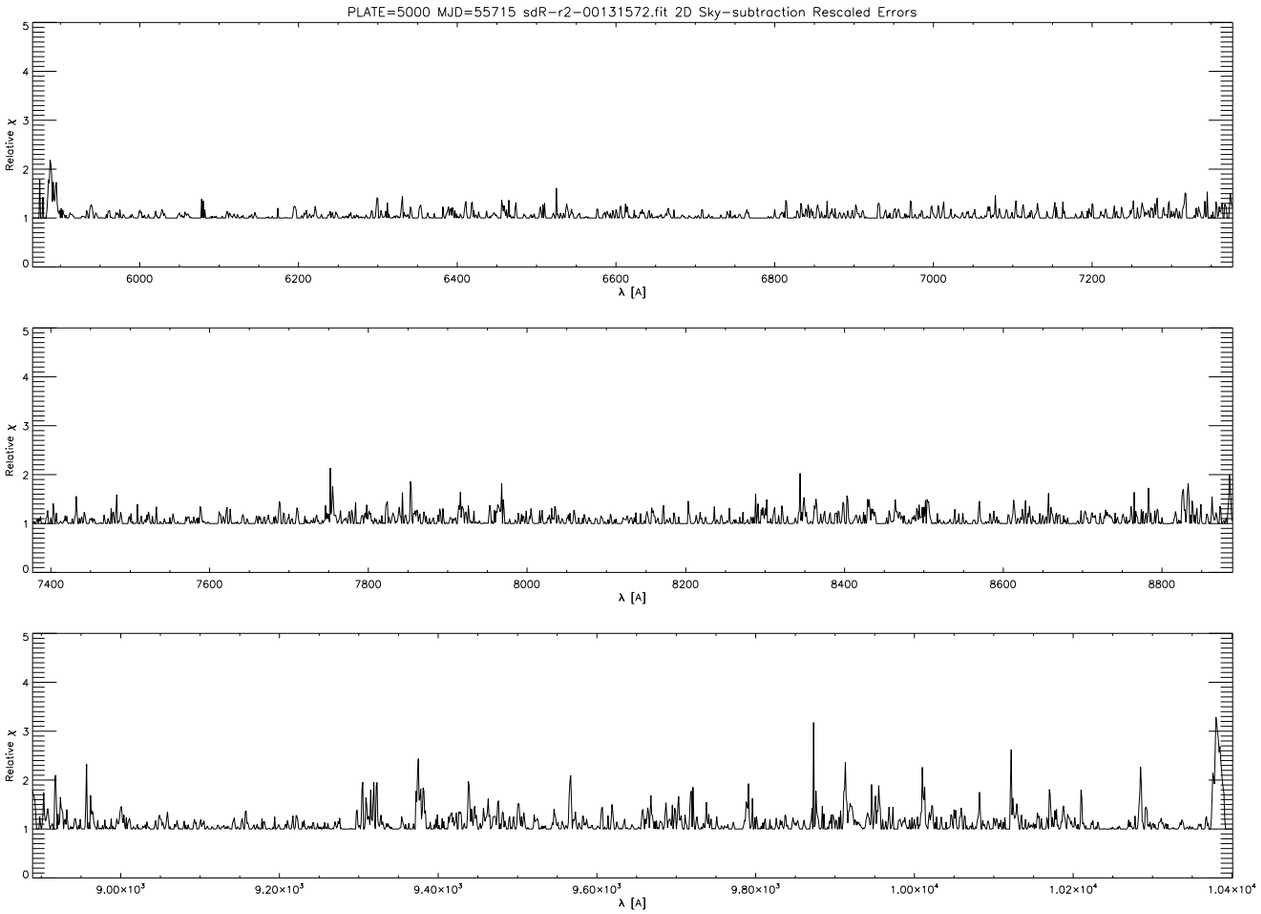


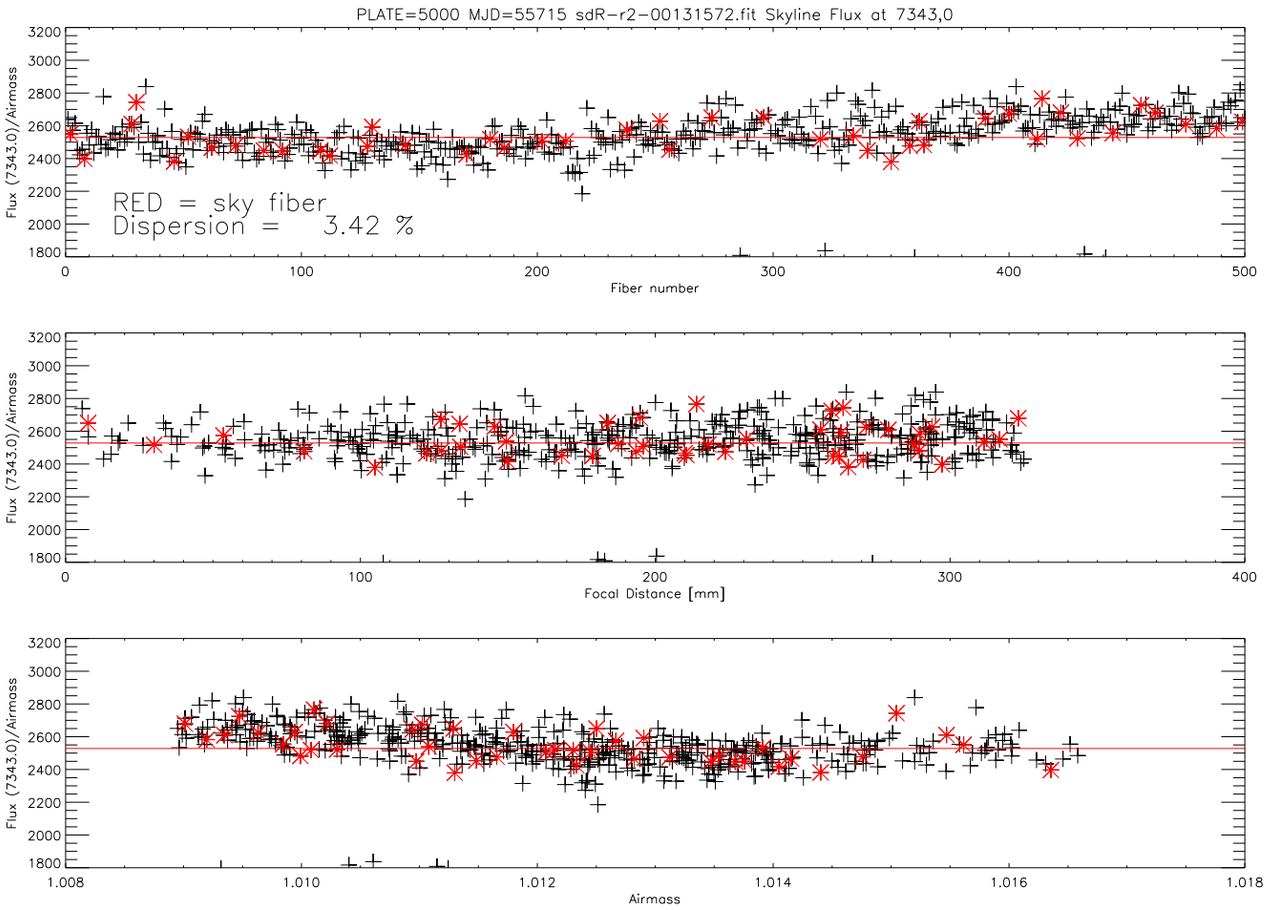

PLATE=5000 MJD=55715 sdR-r2-00131572.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

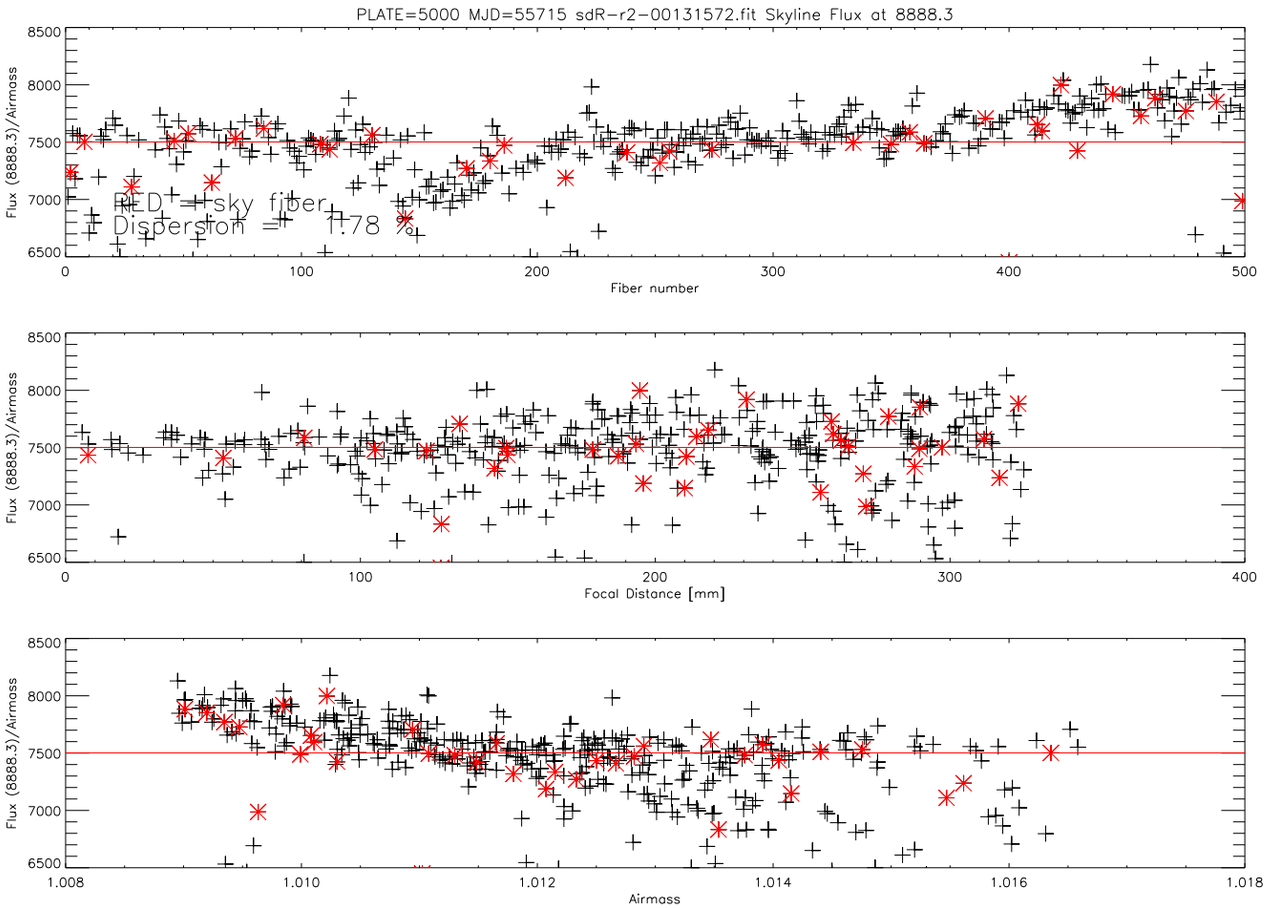

PLATE=5000 MJD=55715 sdR-r2-00131572.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

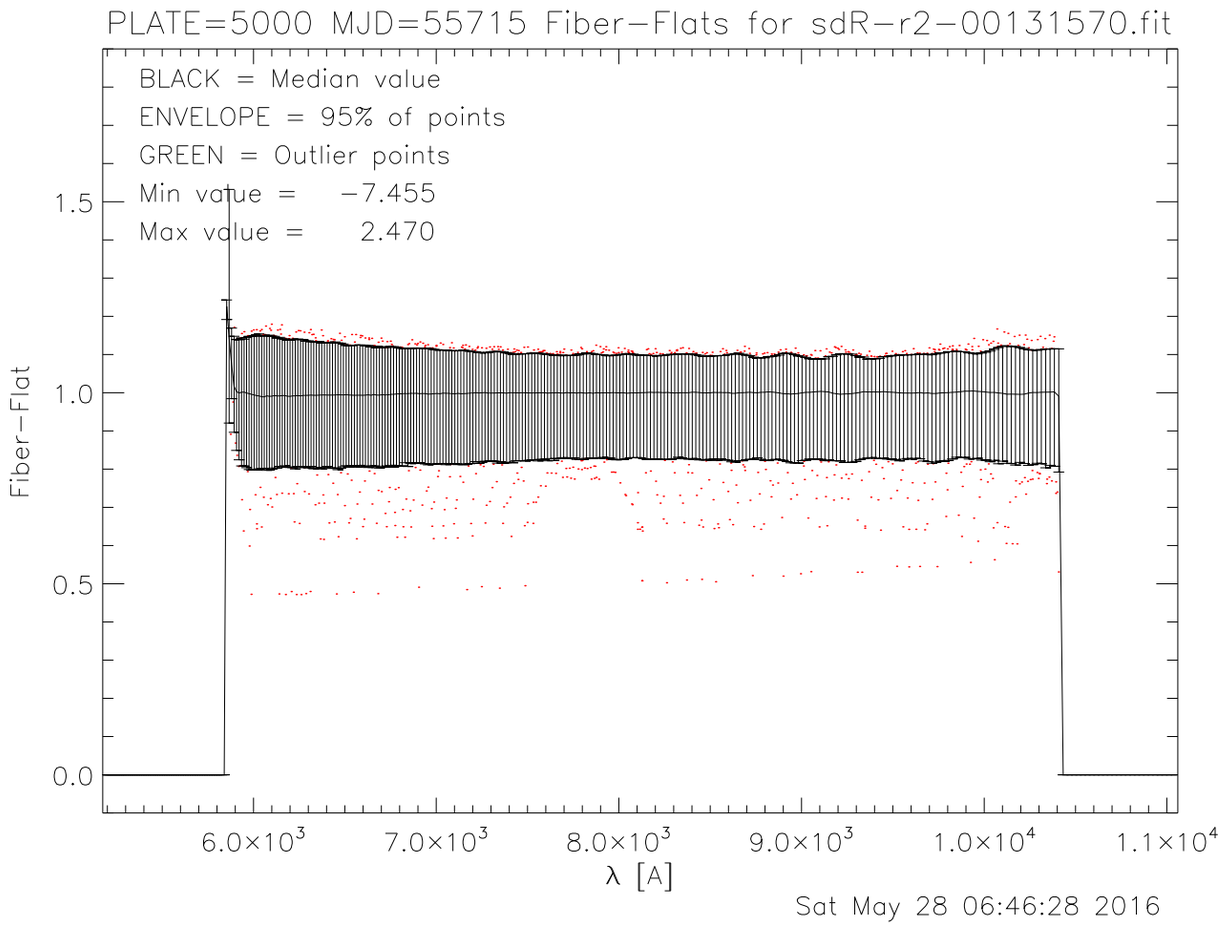

PLATE=5000 MJD=55715 sdR-r2-00131572.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

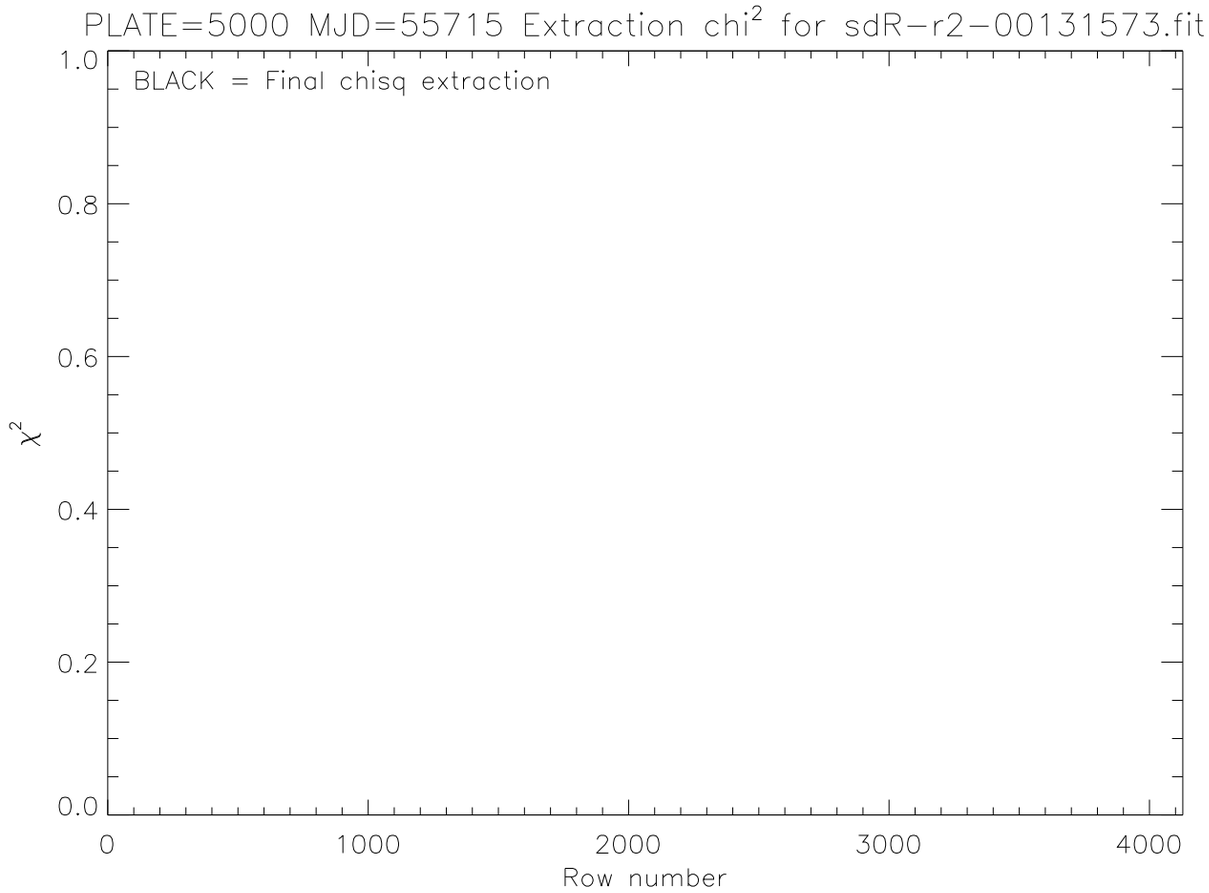
Number of sky fibers = 45

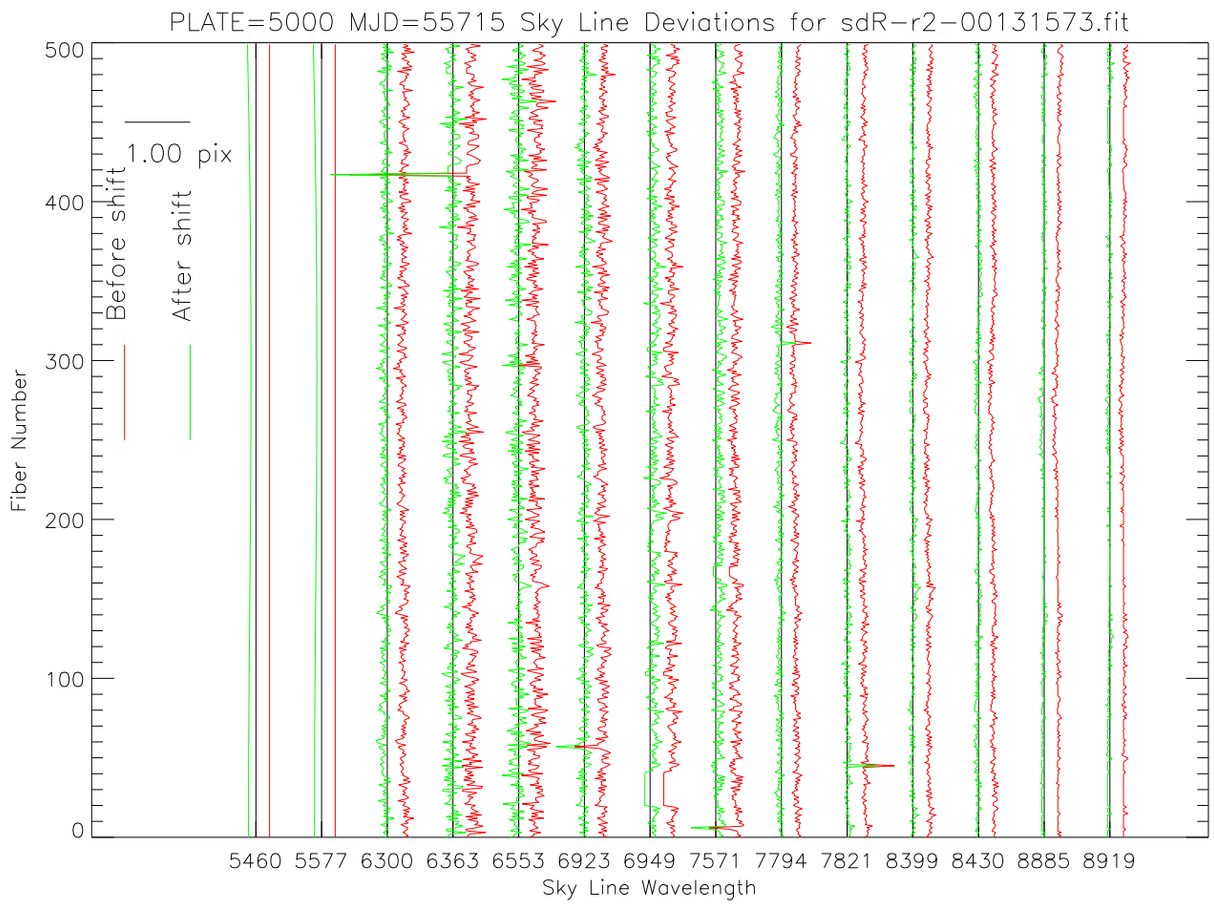


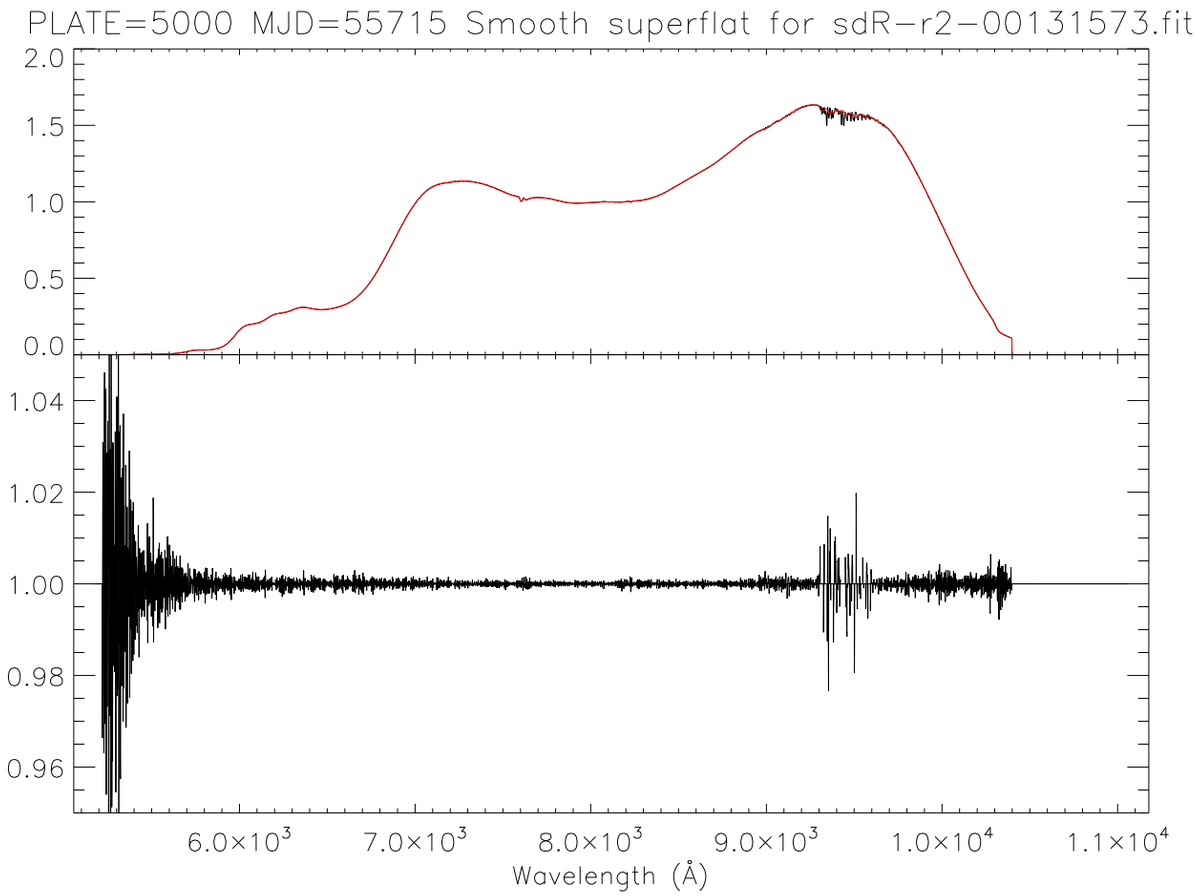

PLATE=5000 MJD=55715 sdR-r2-00131572.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.42 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

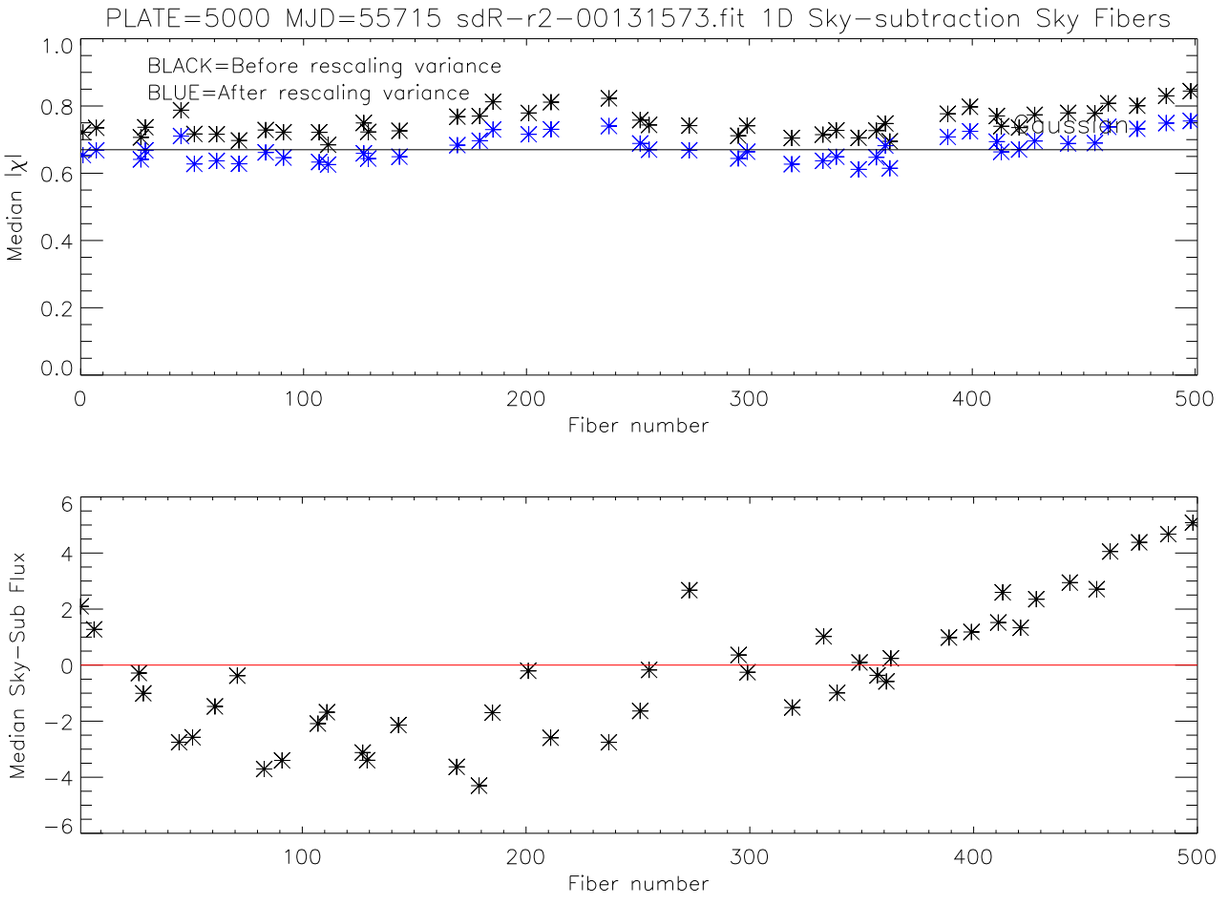

PLATE=5000 MJD=55715 sdR-r2-00131572.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
Focal Distance [mm]
Airmass
RED=sky fiber
Dispersion = 1.78 %

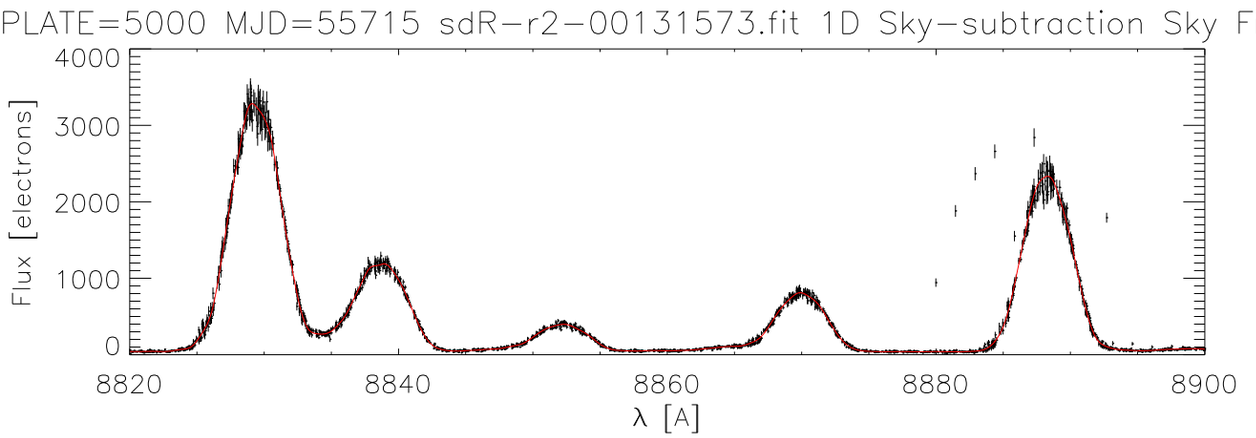

PLATE=5000 MJD=55715 Fiber−Flats for sdR−r2−00131570.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −7.455
Max value = 2.470
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Sat May 28 06:46:28 2016

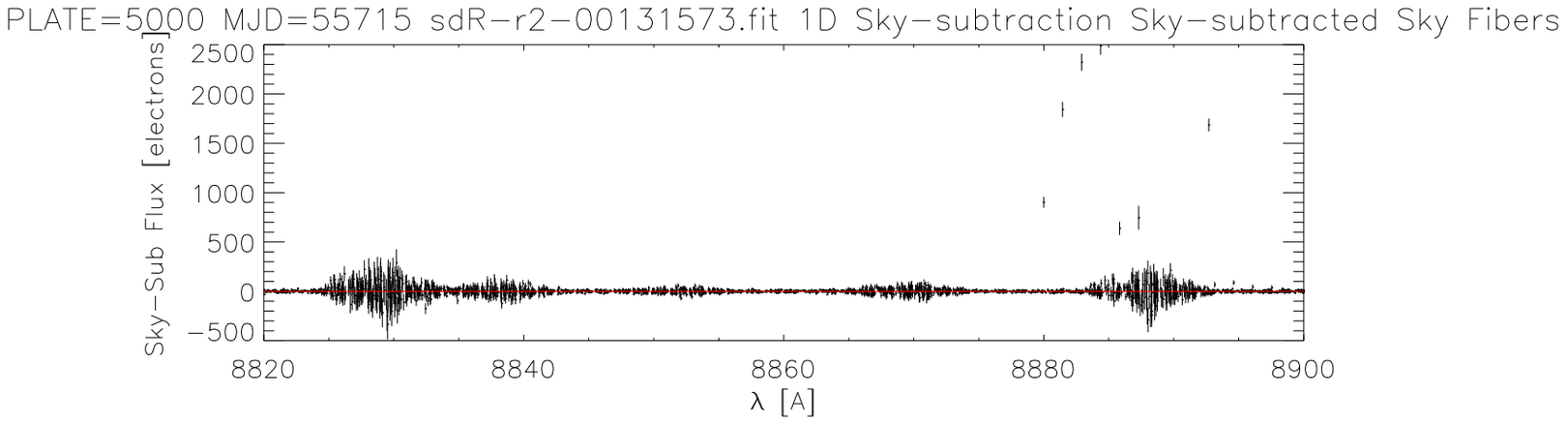

PLATE=5000 MJD=55715 Extraction chi^2 for sdR−r2−00131573.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=5000 MJD=55715 Sky Line Deviations for sdR-r2-00131573.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

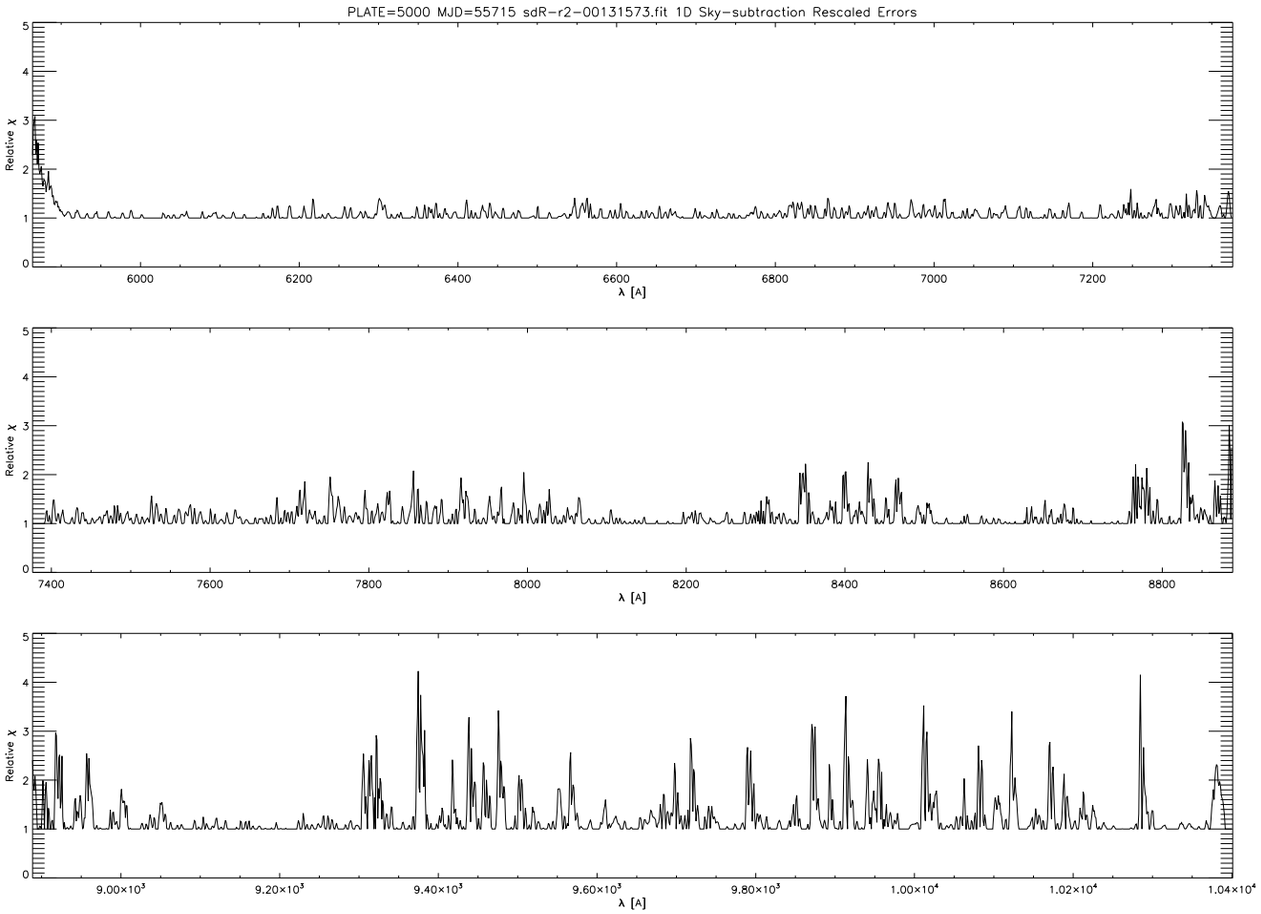

PLATE=5000 MJD=55715 Smooth superflat for sdR-r2-00131573.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

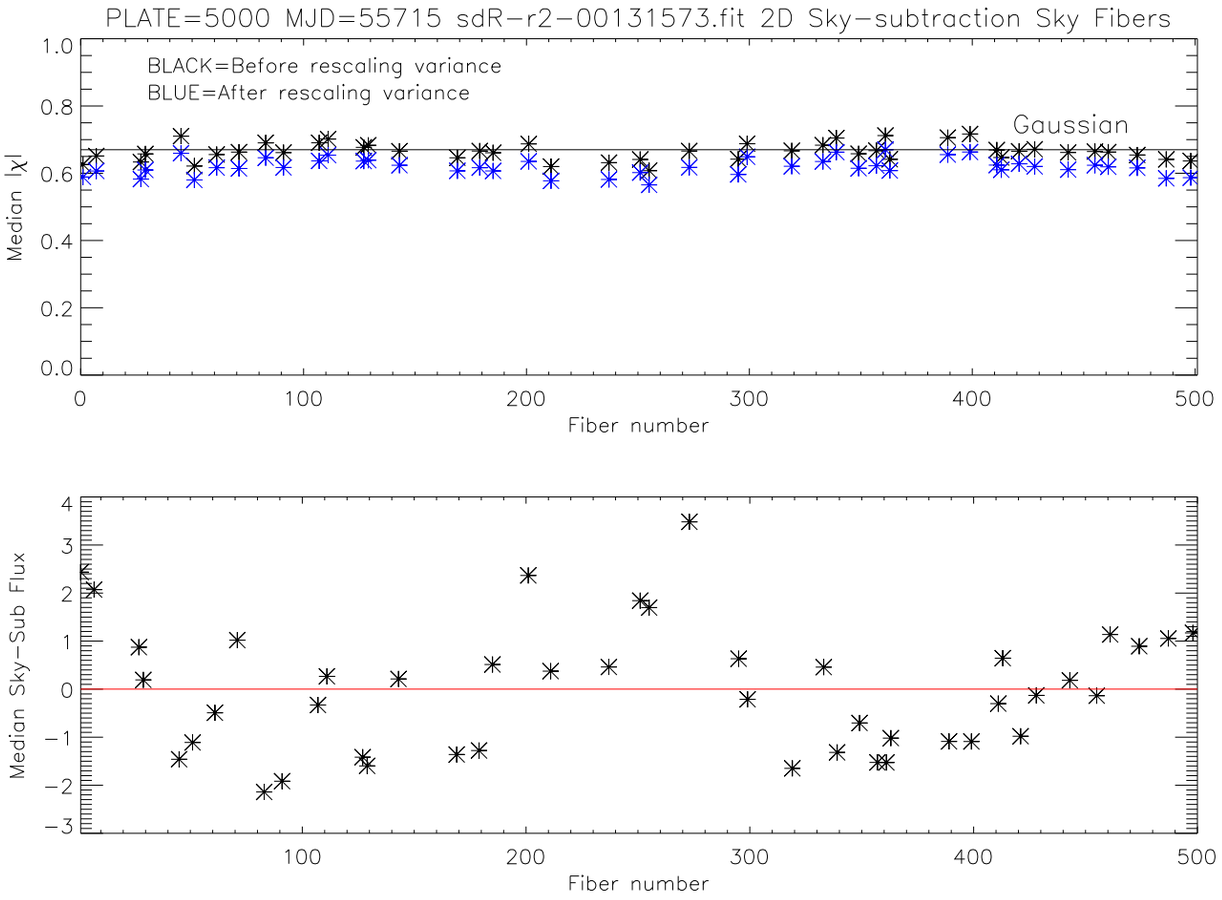

PLATE=5000 MJD=55715 sdR-r2-00131573.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

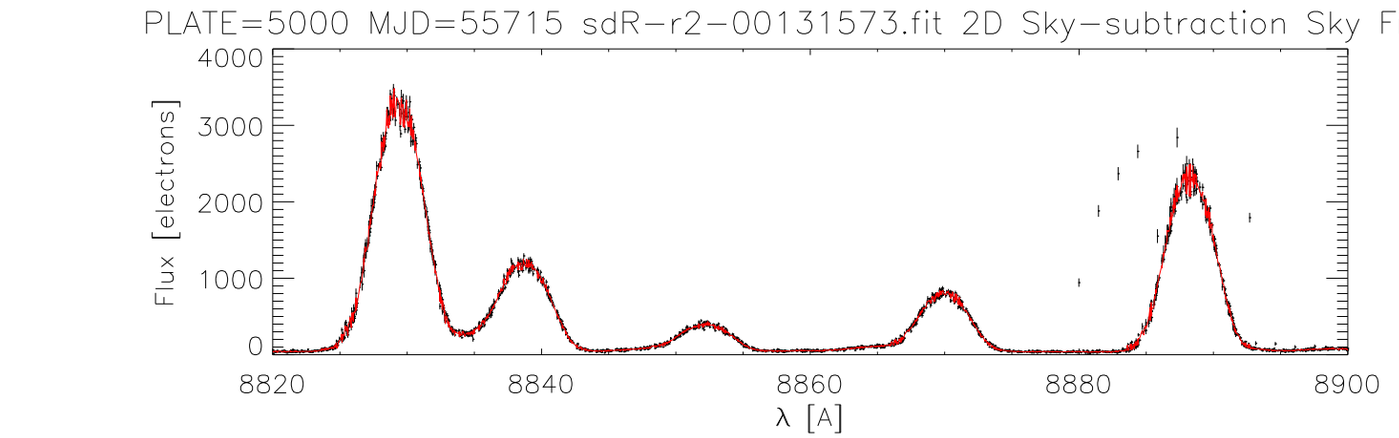

PLATE=5000 MJD=55715 sdR-r2-00131573.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

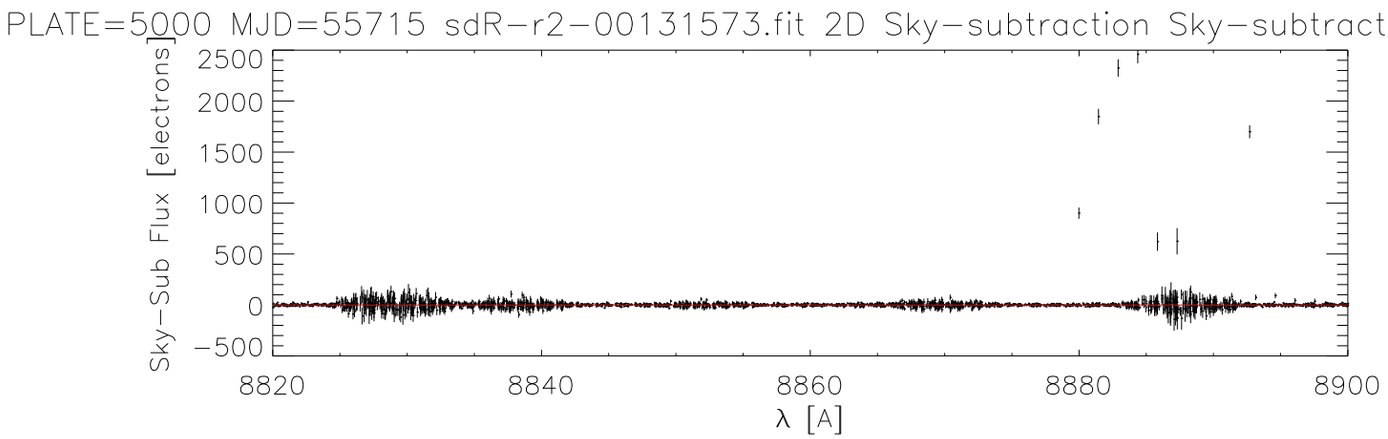

PLATE=5000 MJD=55715 sdR-r2-00131573.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
2500
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 45

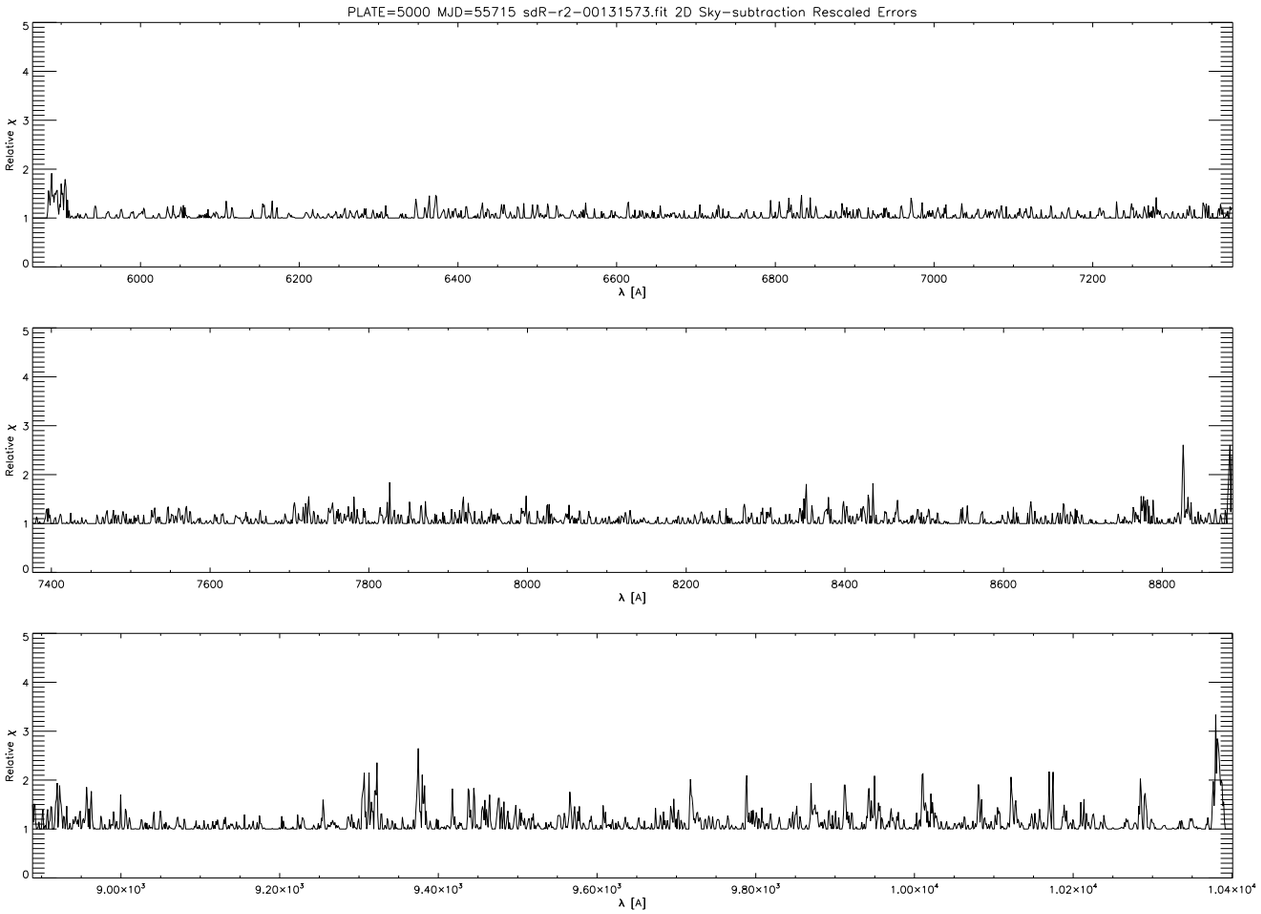


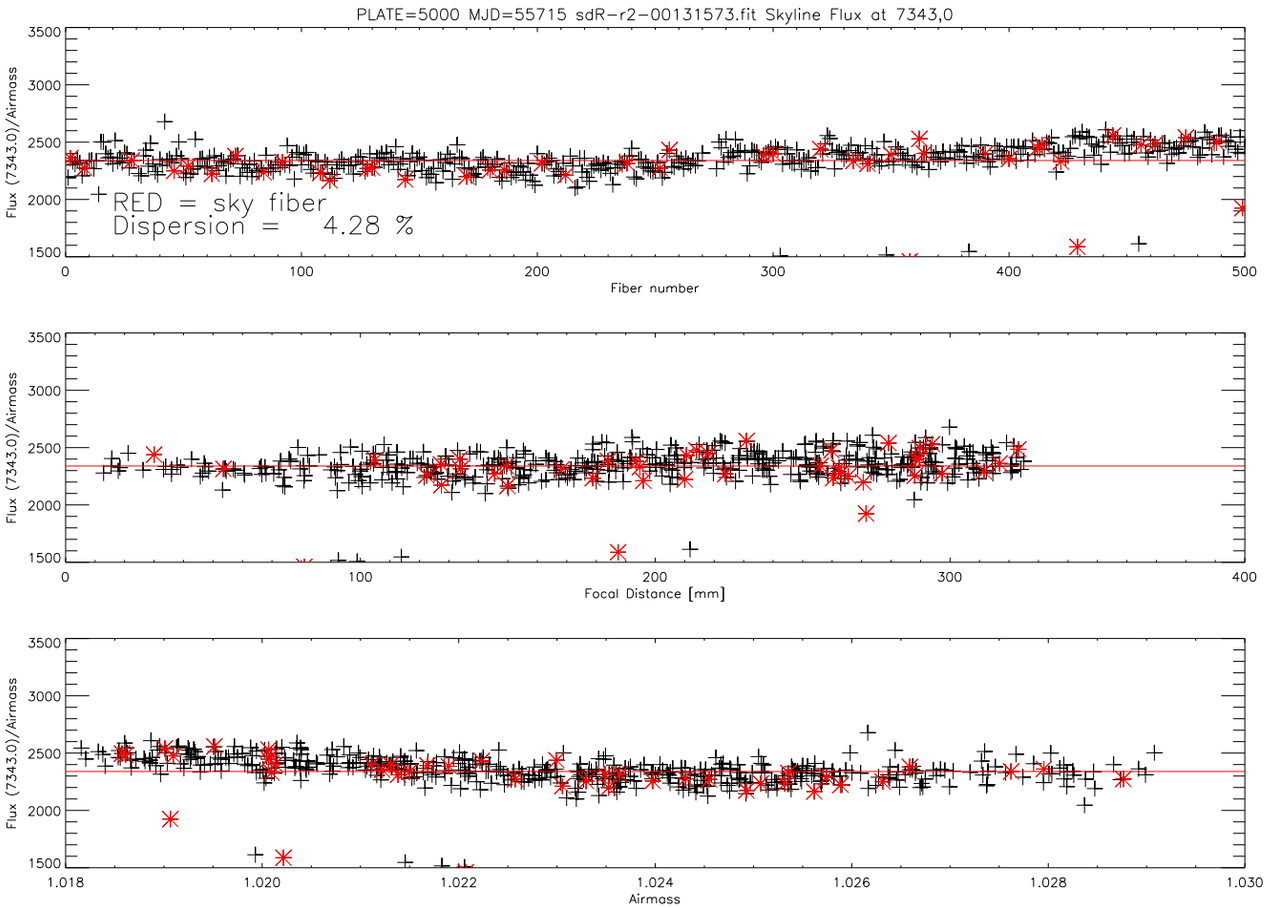

PLATE=5000 MJD=55715 sdR-r2-00131573.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

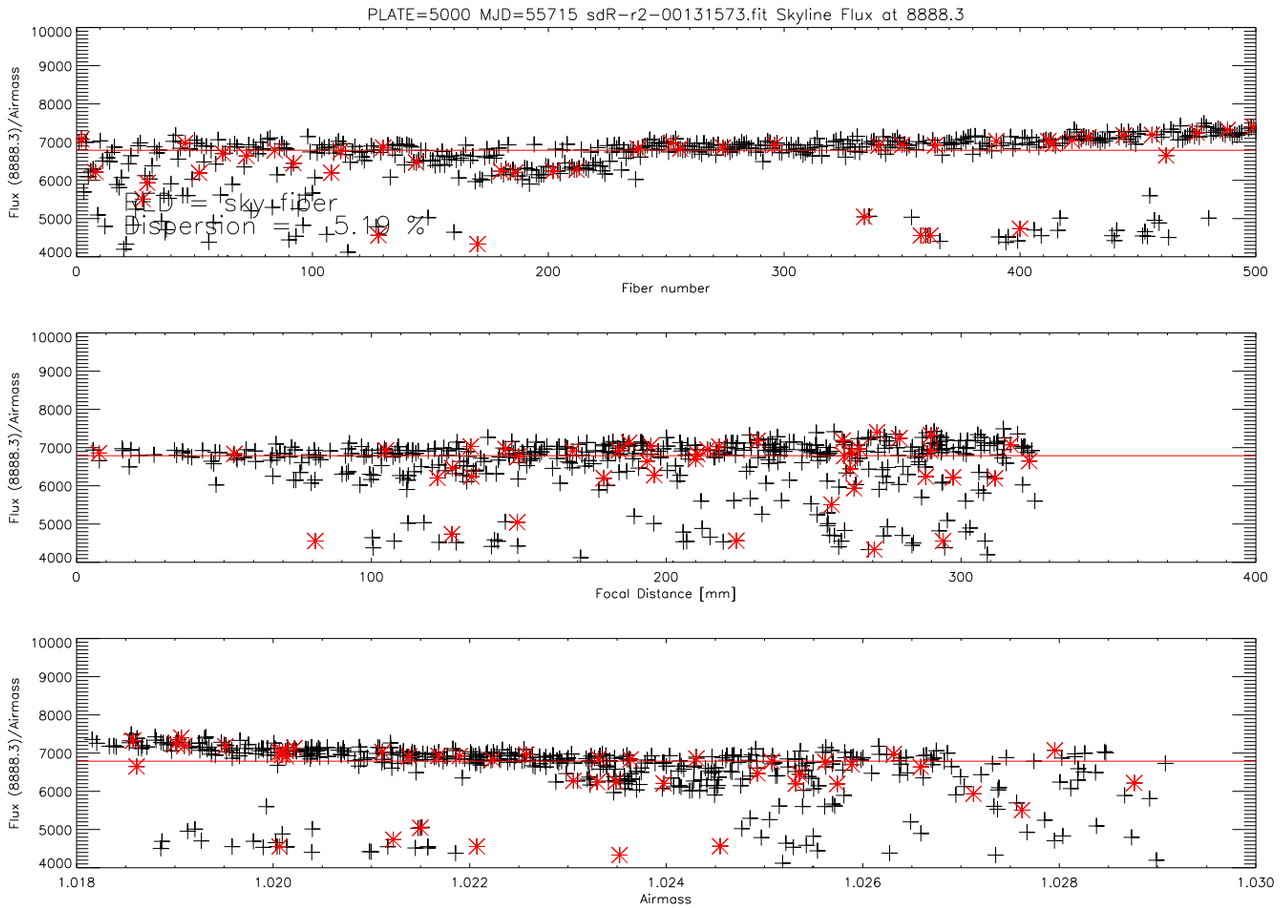

PLATE=5000 MJD=55715 sdR-r2-00131573.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

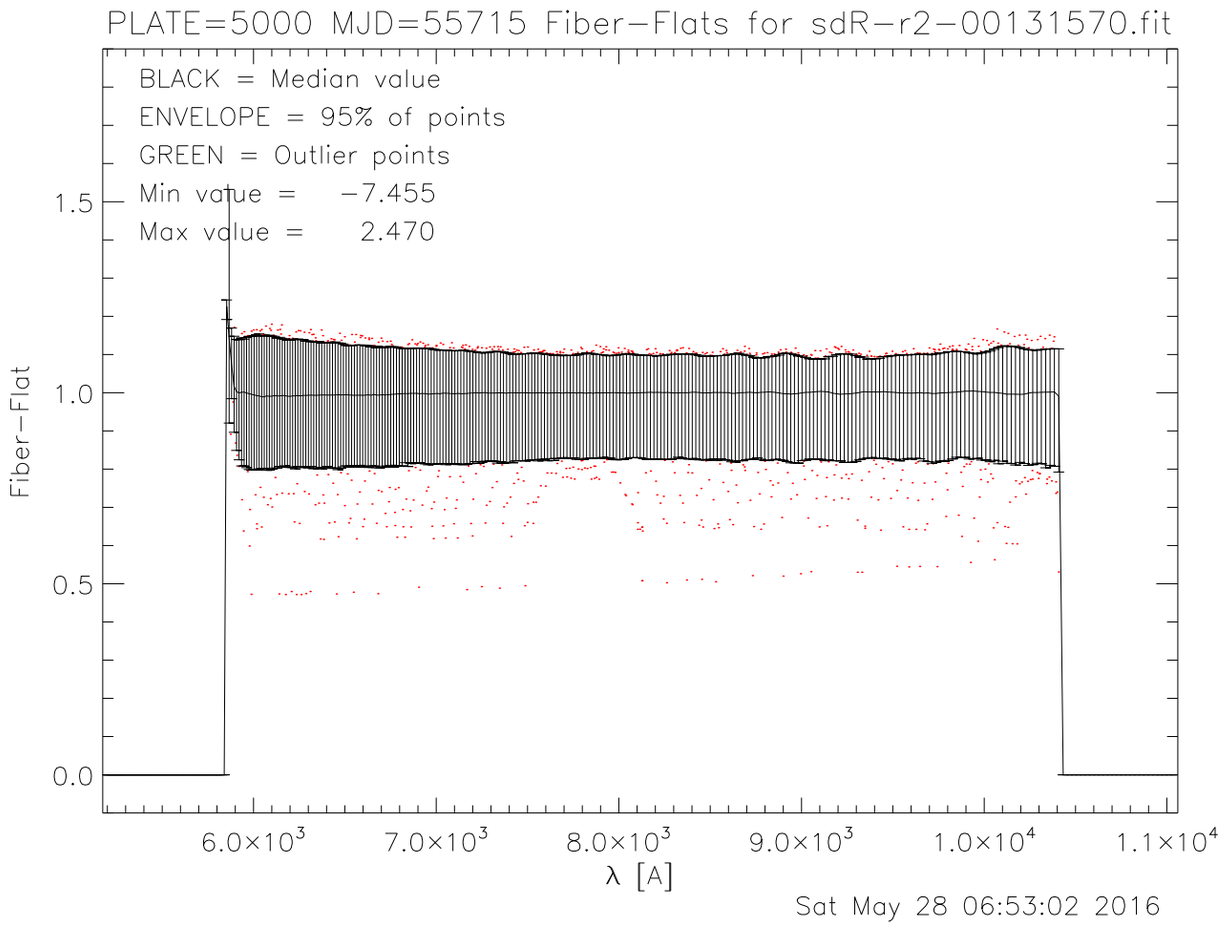

PLATE=5000 MJD=55715 sdR-r2-00131573.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
2500
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

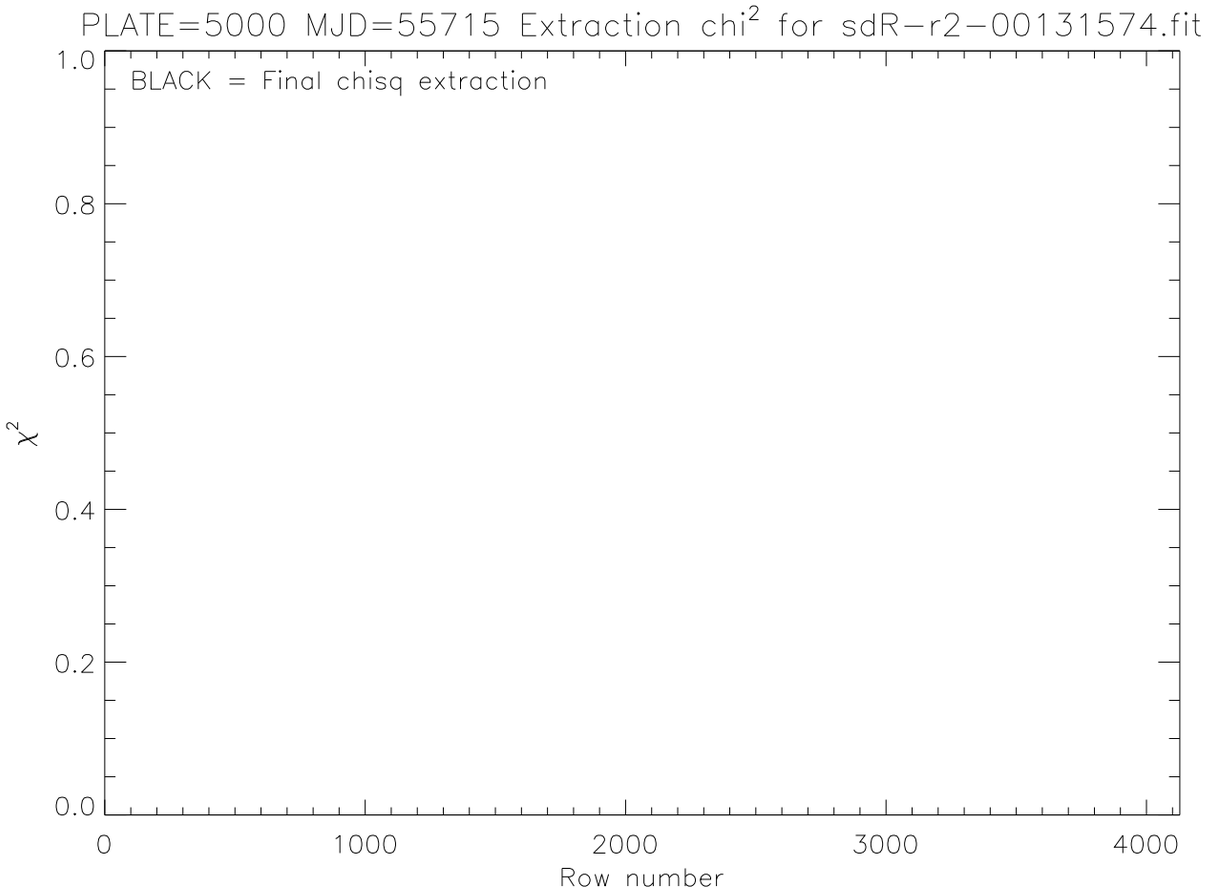
Number of sky fibers = 45

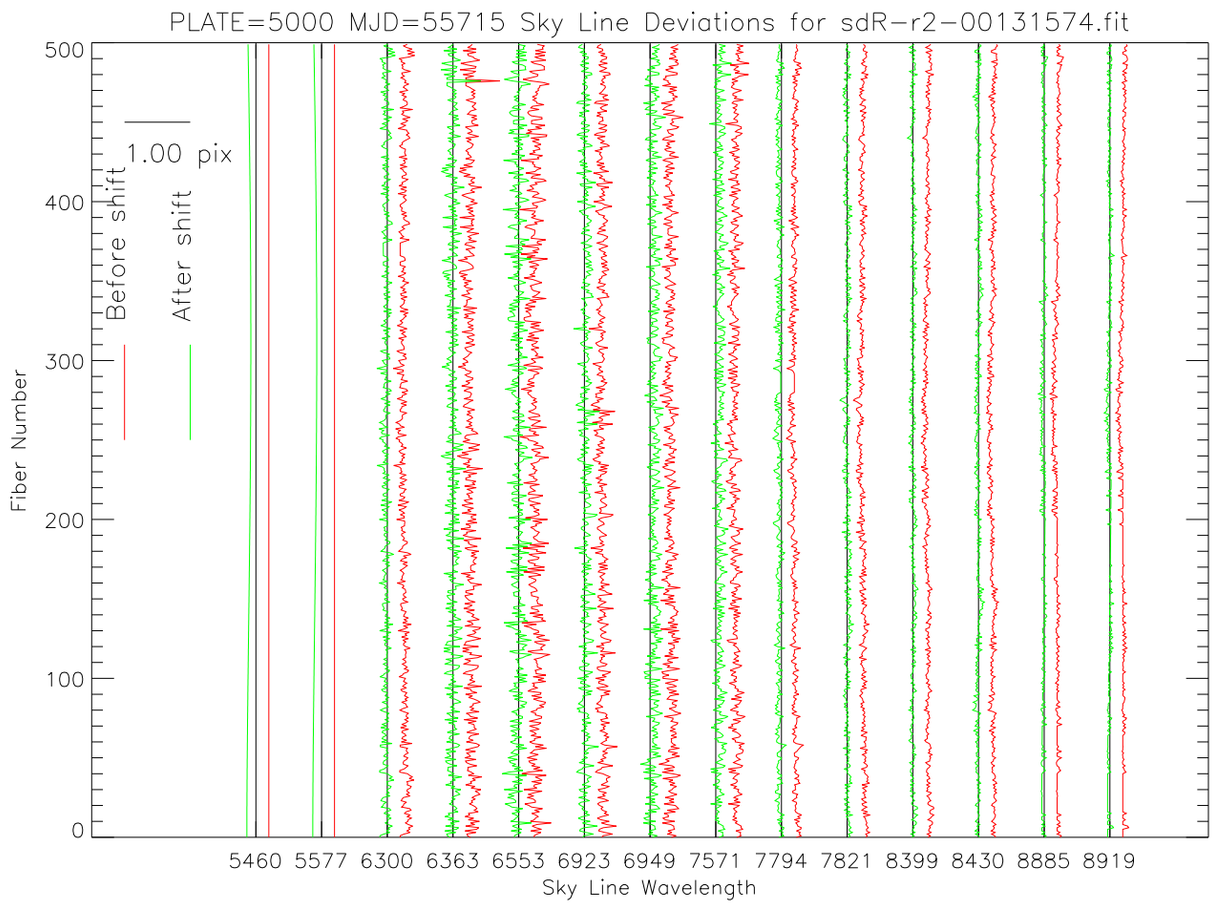


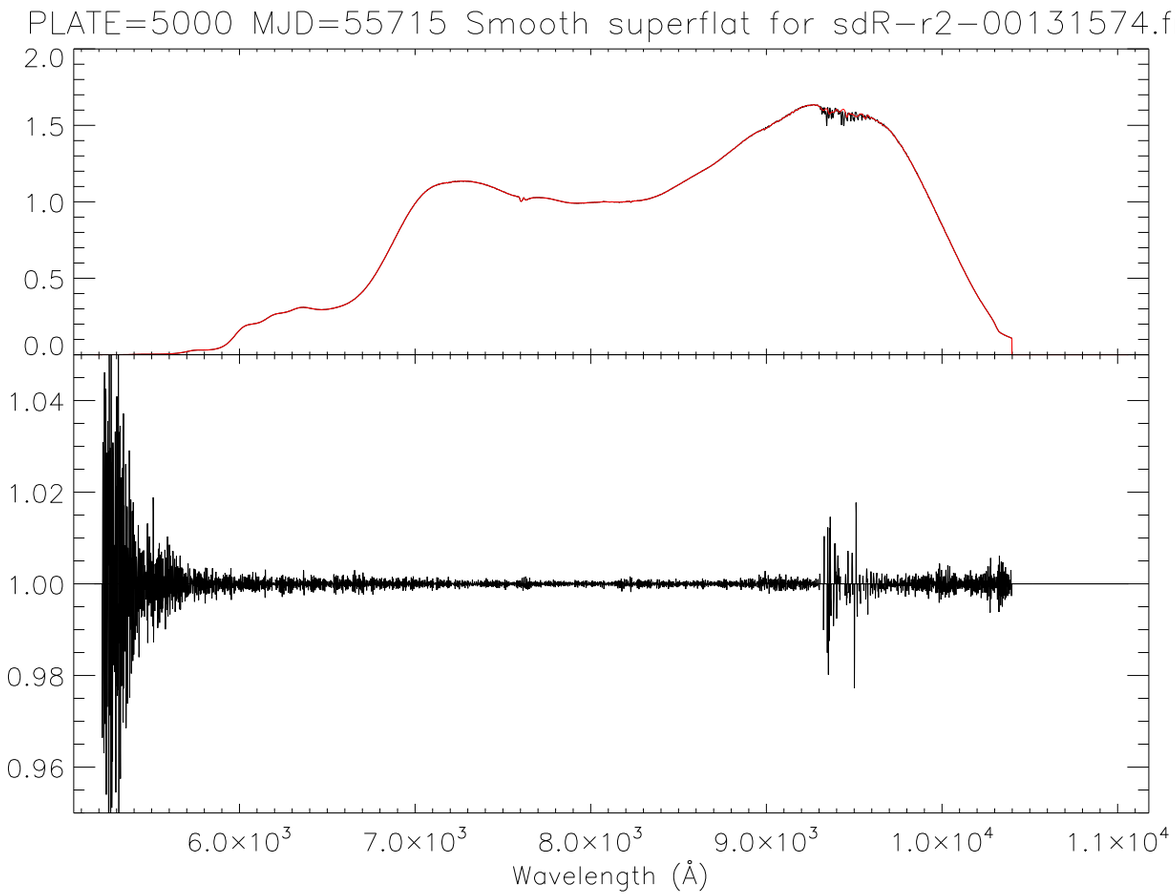

PLATE=5000 MJD=55715 sdR-r2-00131573.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 4.28 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

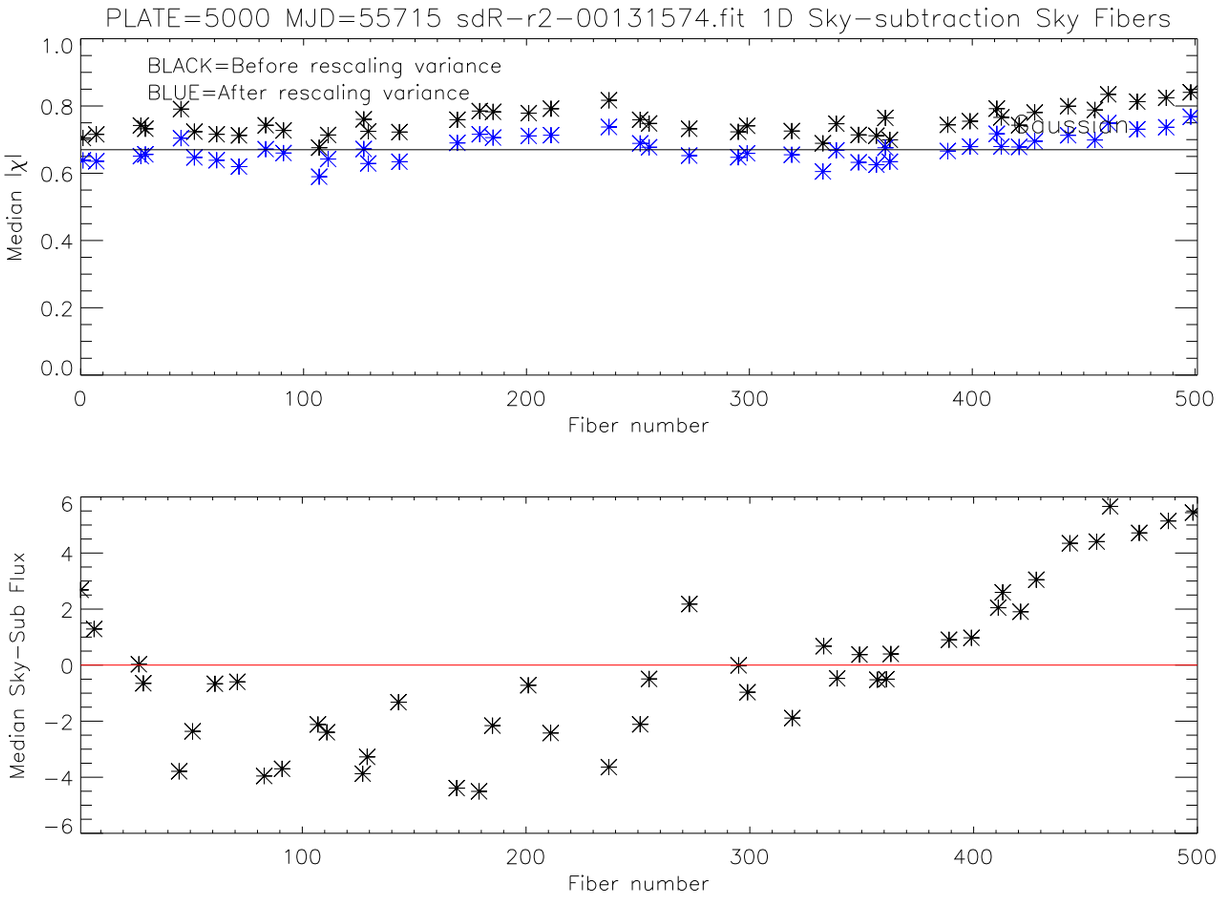

PLATE=5000 MJD=55715 sdR-r2-00131573.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
Red = sky fiber
Dispersion = 5.19 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

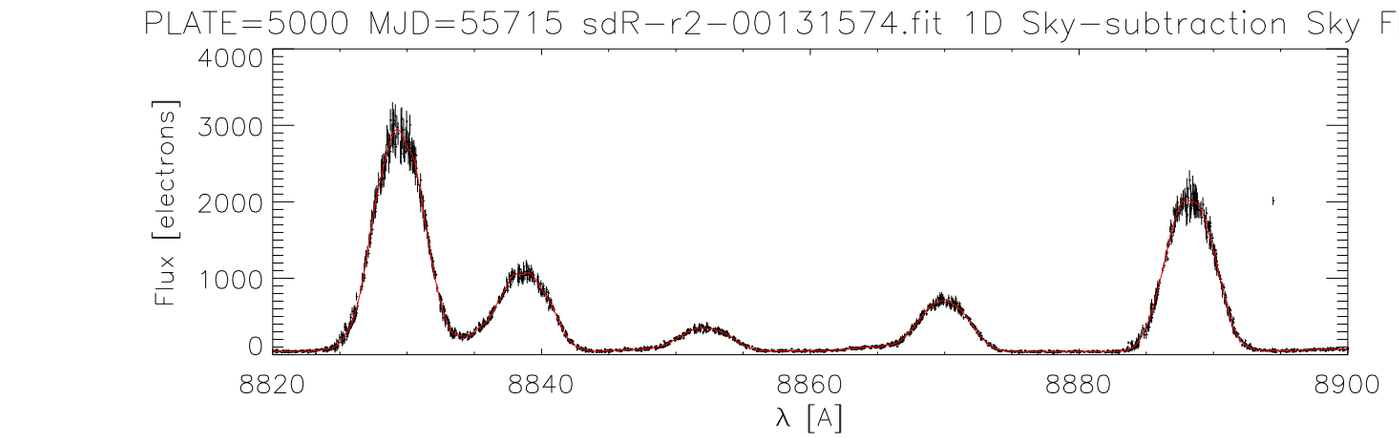

PLATE=5000 MJD=55715 Fiber−Flats for sdR−r2−00131570.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −7.455
Max value = 2.470
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Sat May 28 06:53:02 2016

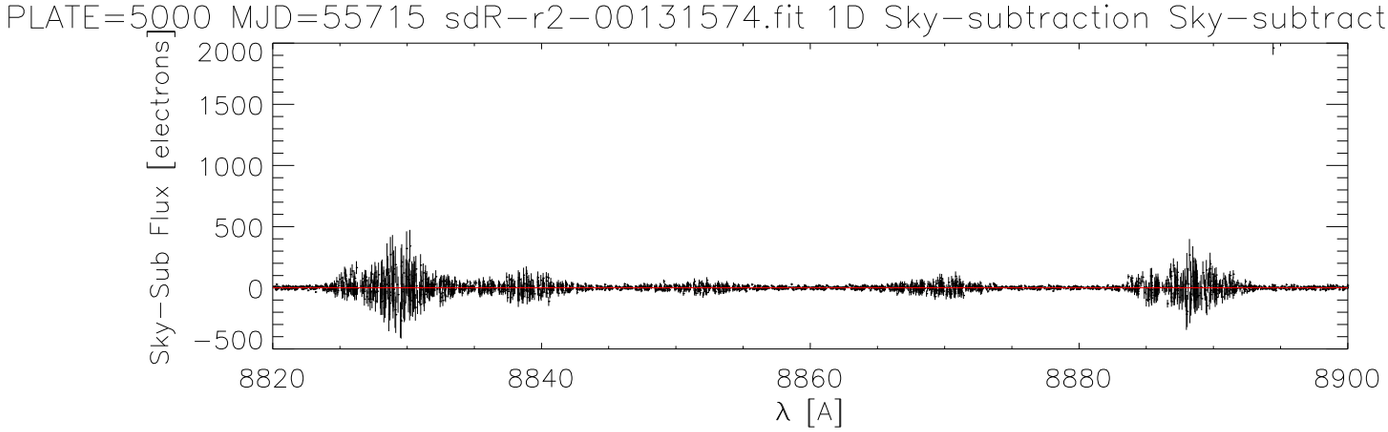

PLATE=5000 MJD=55715 Extraction chi^2 for sdR−r2−00131574.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=5000 MJD=55715 Sky Line Deviations for sdR-r2-00131574.fit
Fiber Number
Sky Line Wavelength
Before shift
After shift
1.00 pix
0
100
200
300
400
500
5460 5577 6300 6363 6553 6923 6949 7571 7794 7821 8399 8430 8885 8919

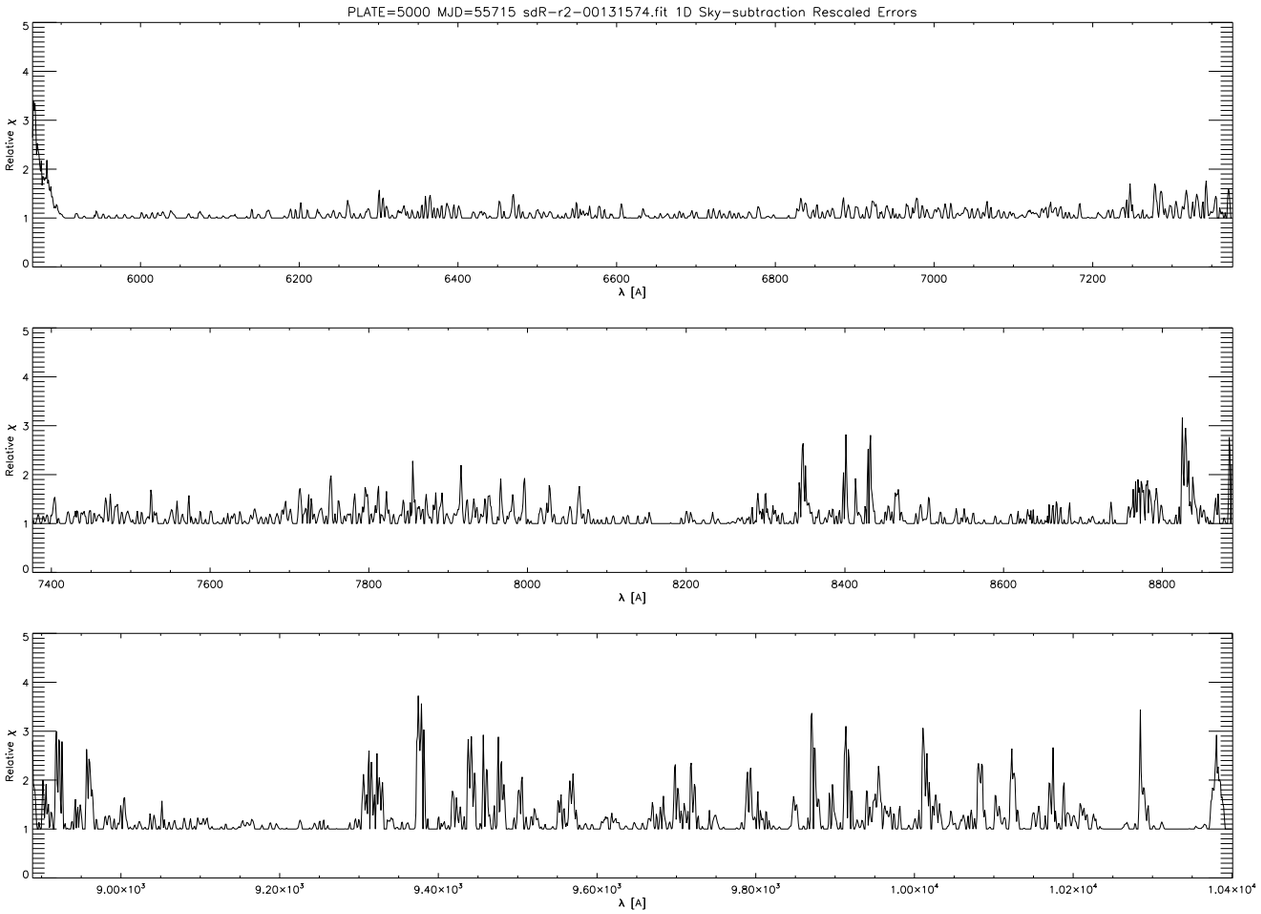

PLATE=5000 MJD=55715 Smooth superflat for sdR-r2-00131574.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

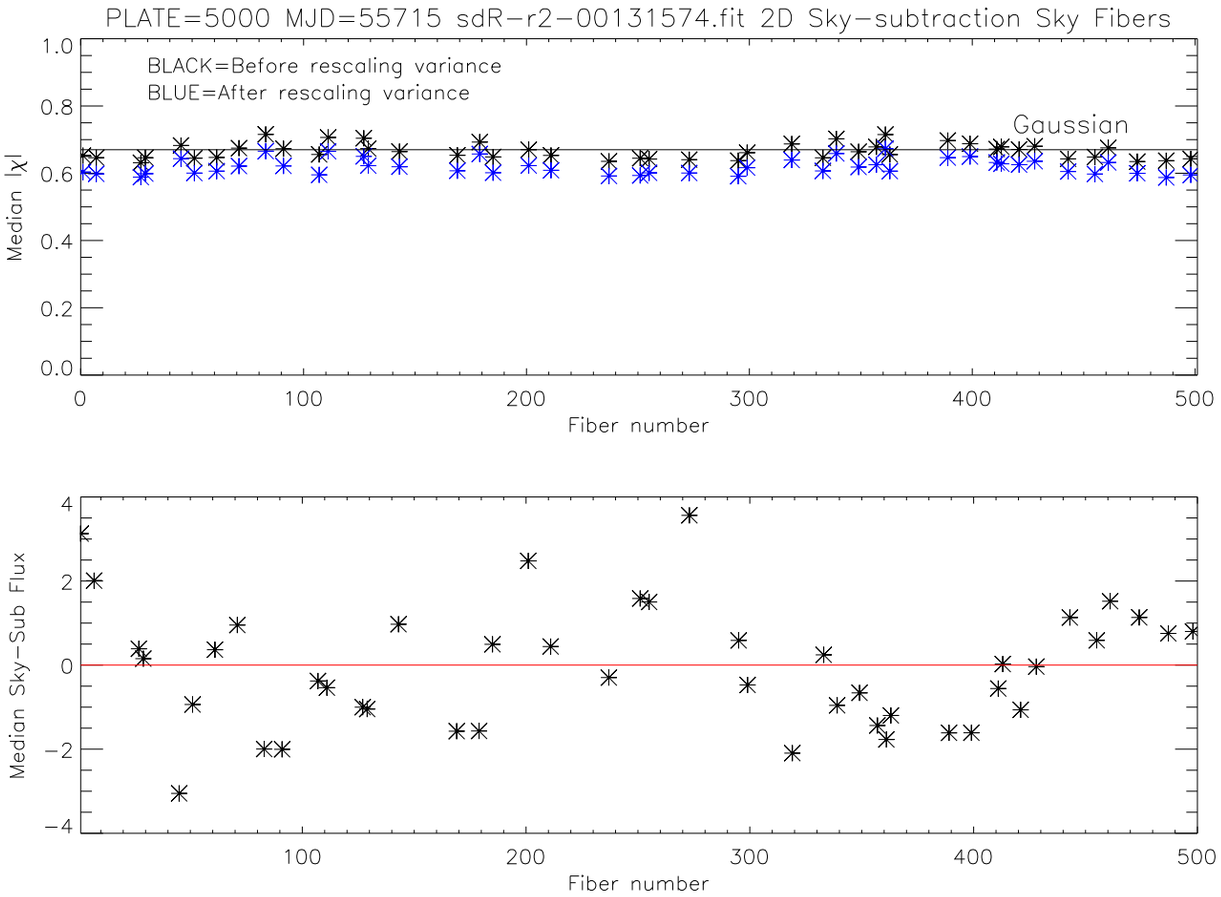

PLATE=5000 MJD=55715 sdR-r2-00131574.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

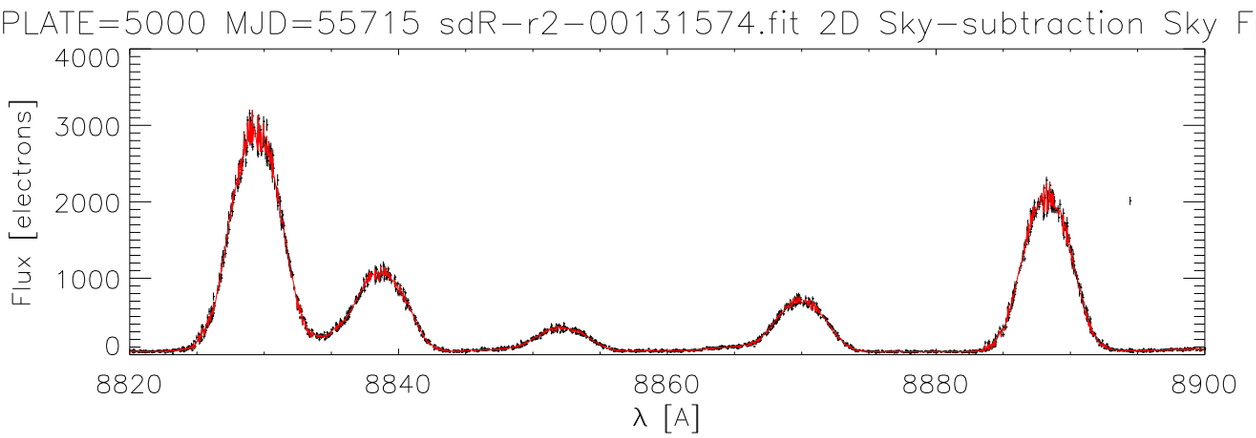

PLATE=5000 MJD=55715 sdR-r2-00131574.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

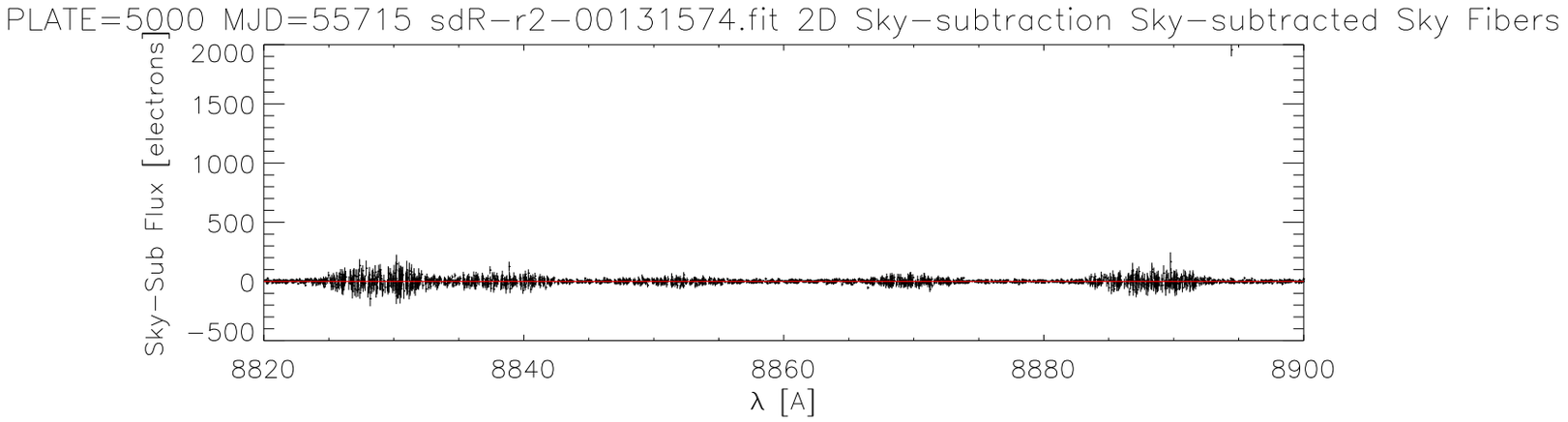

PLATE=5000 MJD=55715 sdR-r2-00131574.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 45

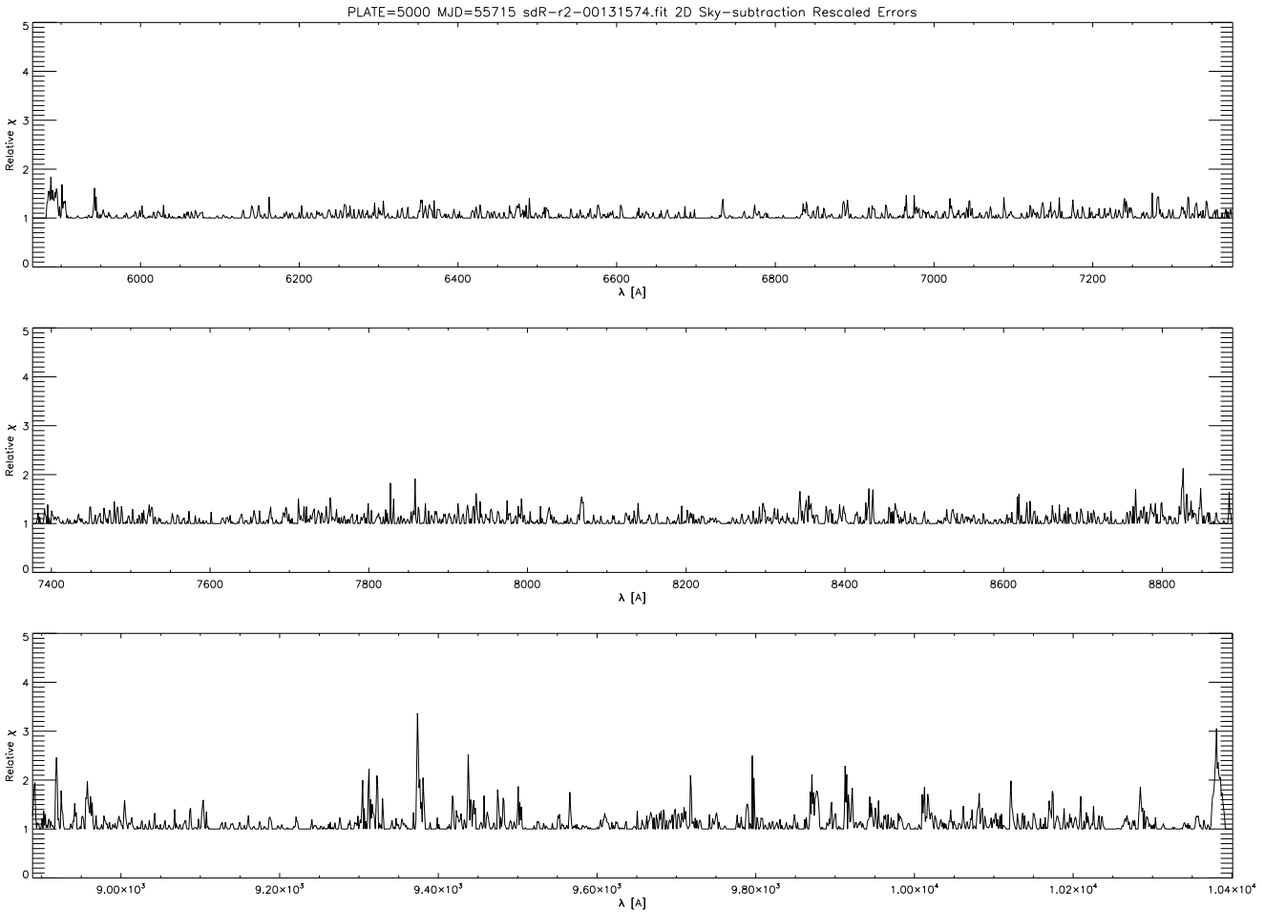


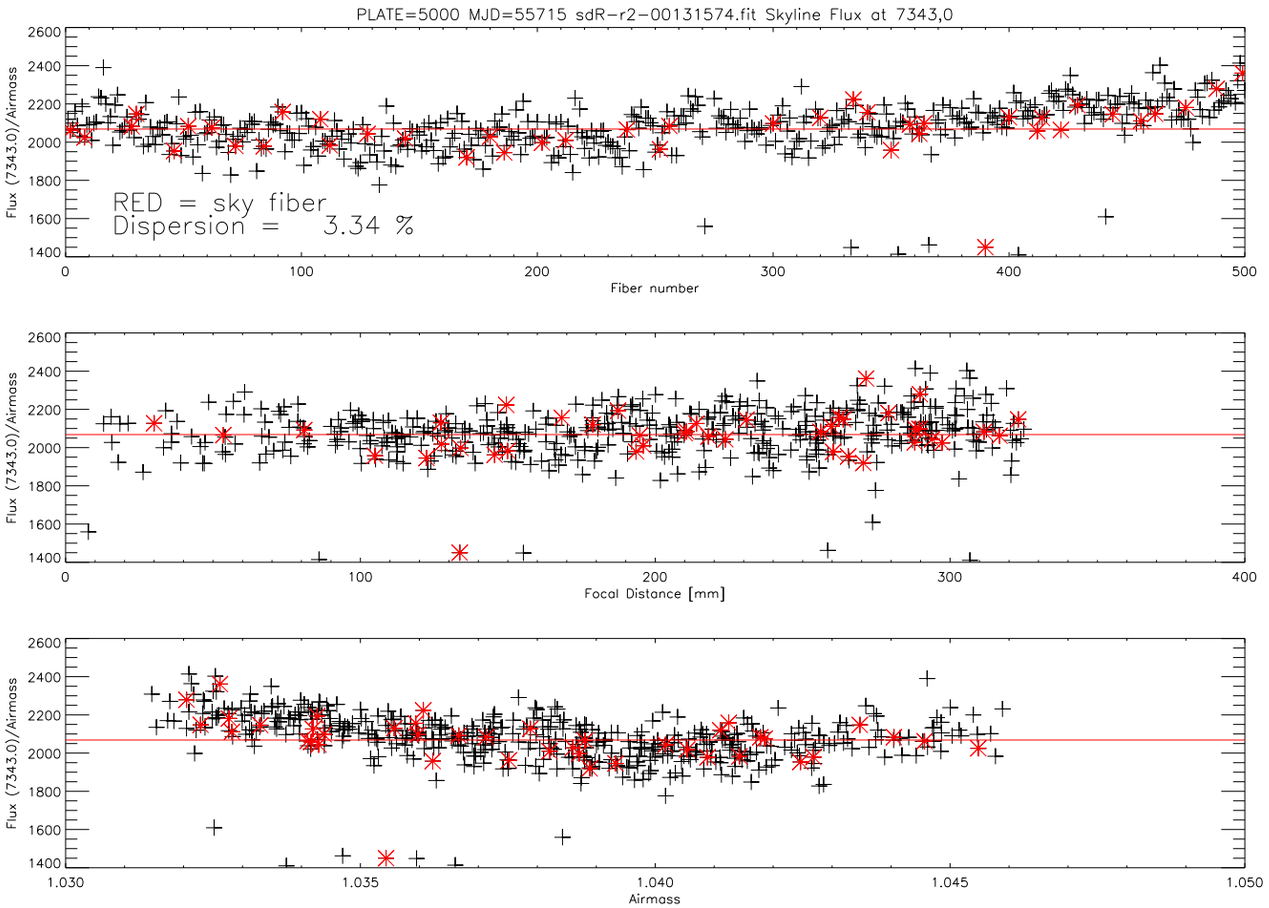

PLATE=5000 MJD=55715 sdR-r2-00131574.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

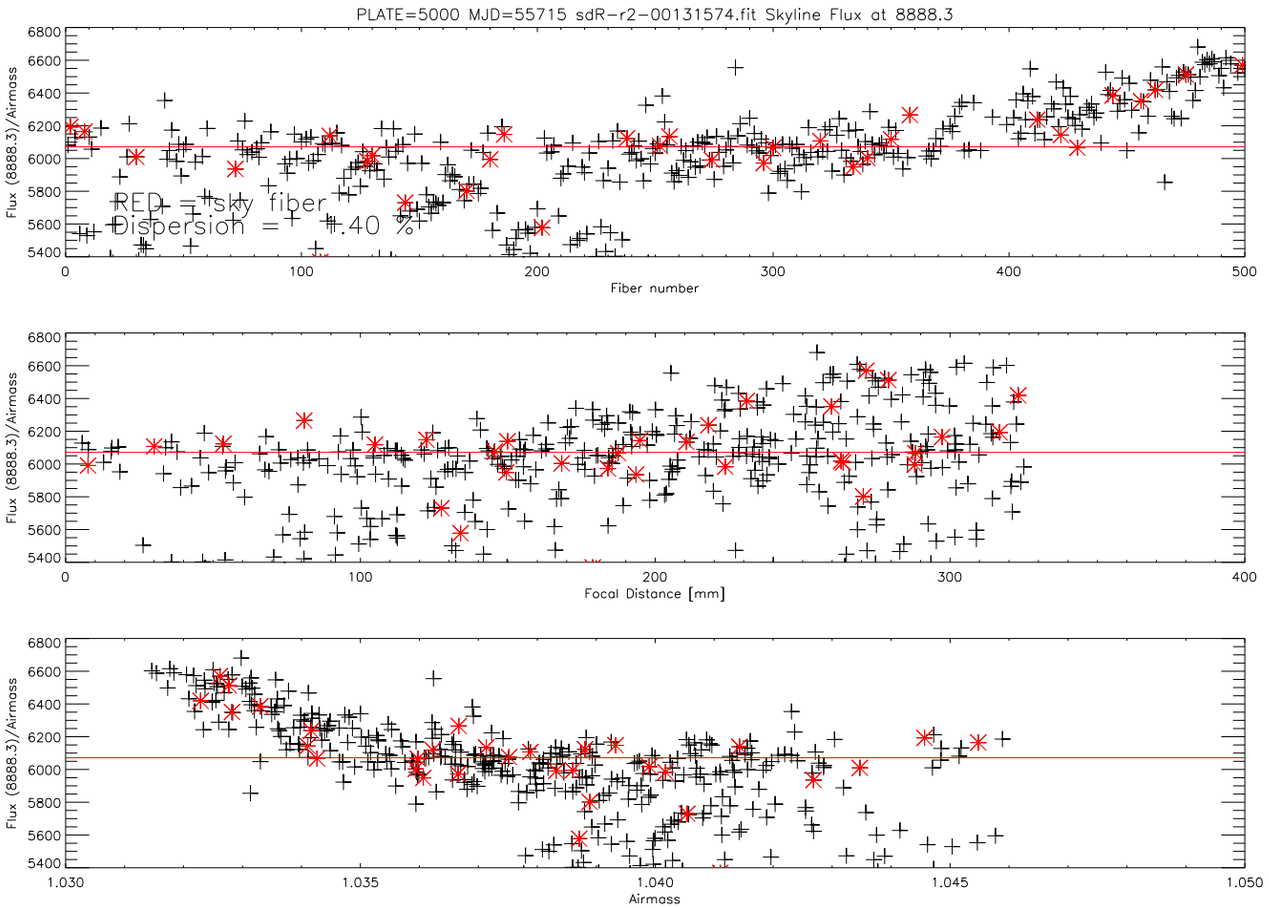

PLATE=5000 MJD=55715 sdR-r2-00131574.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

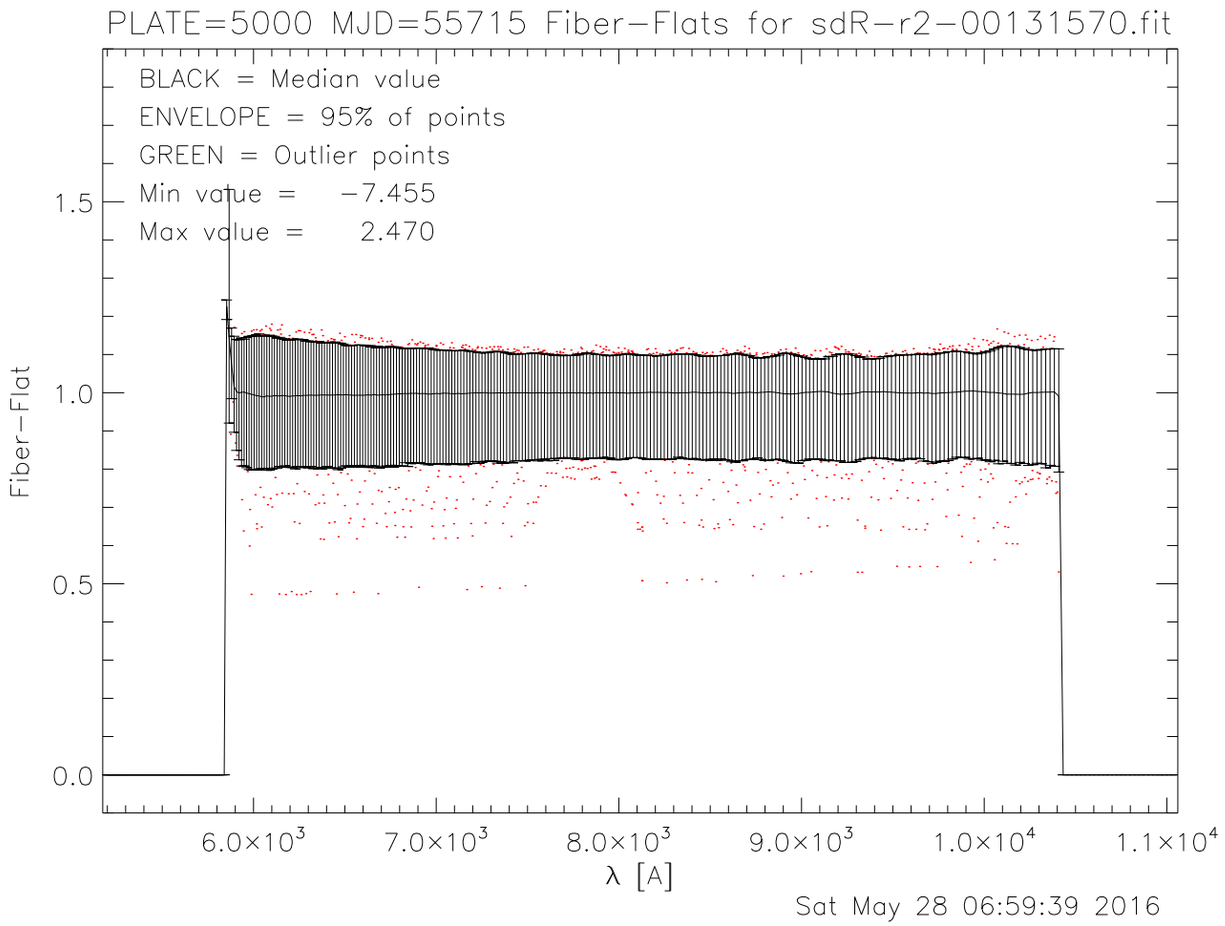

PLATE=5000 MJD=55715 sdR-r2-00131574.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

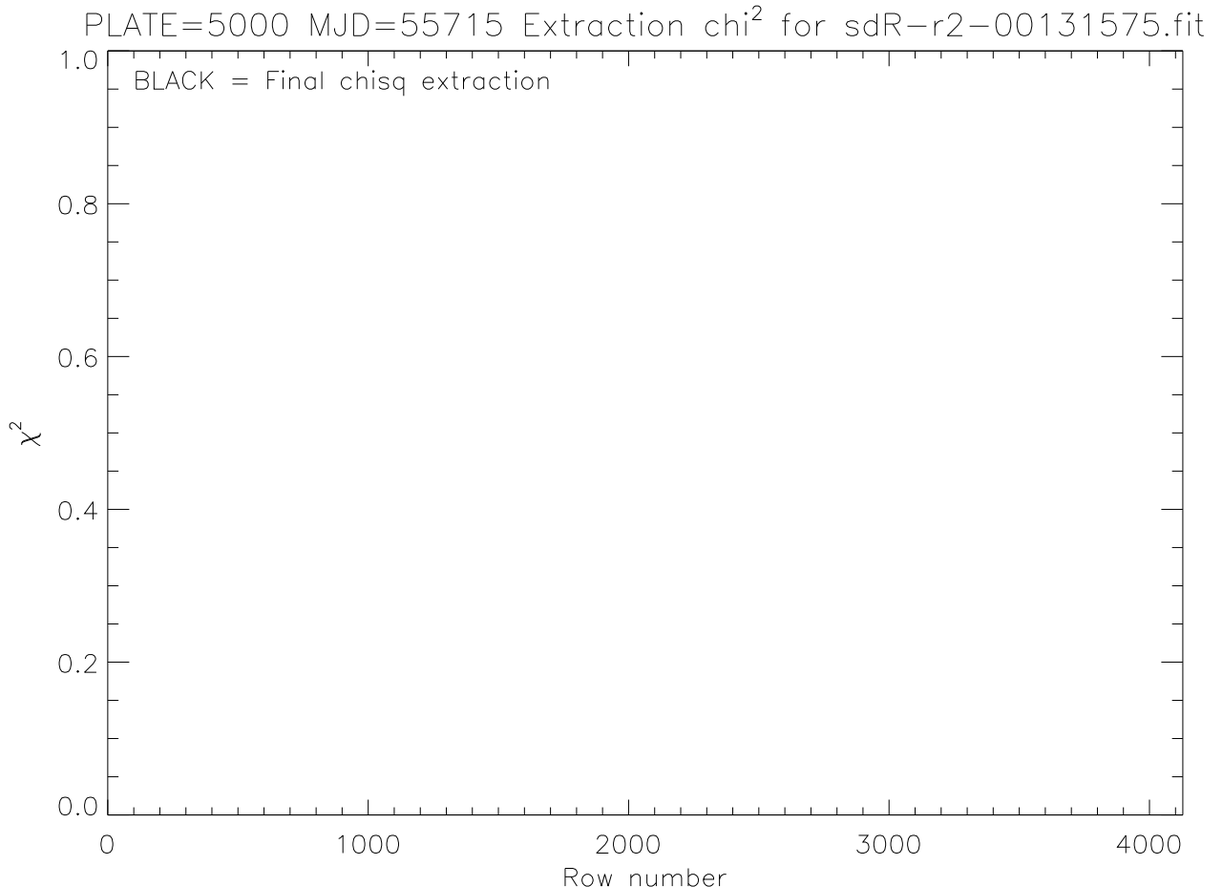
Number of sky fibers = 45

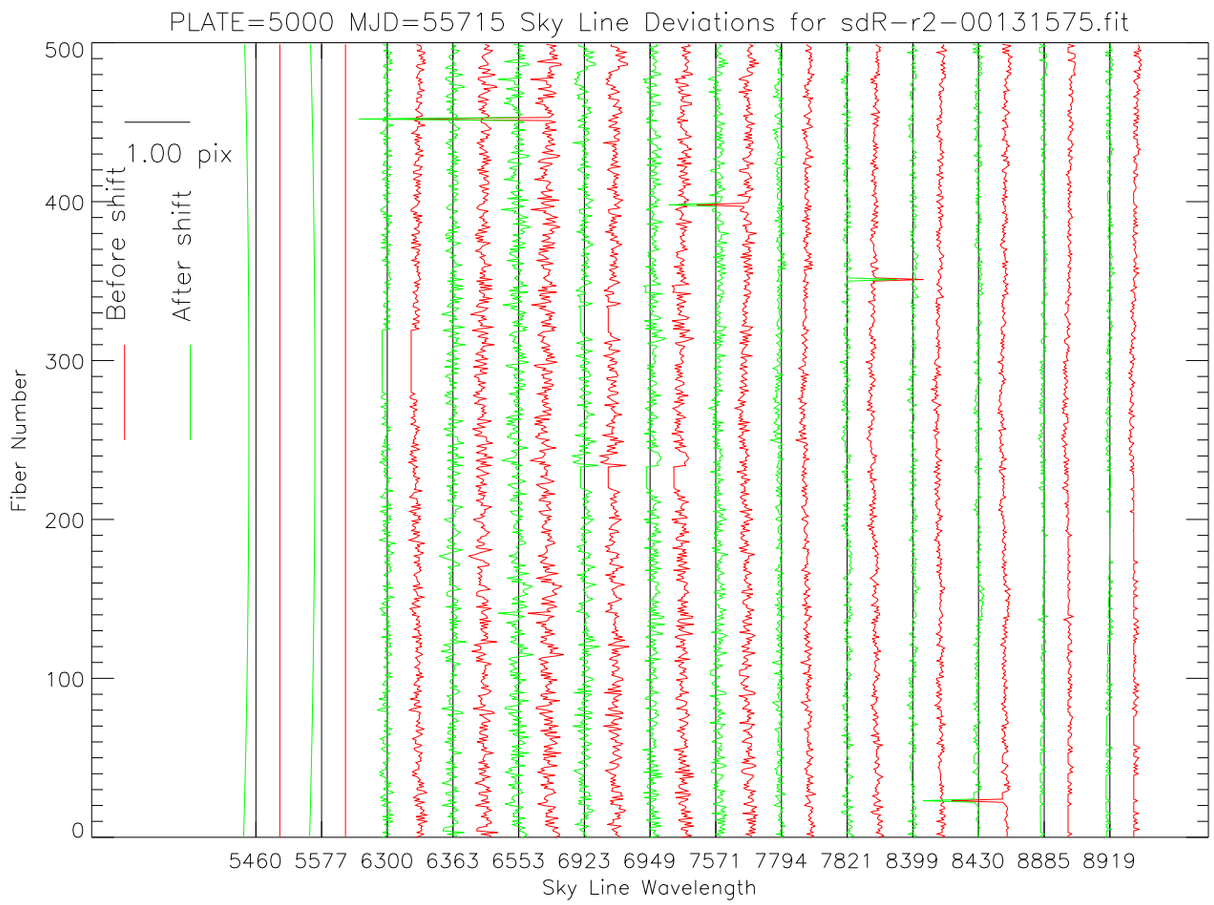


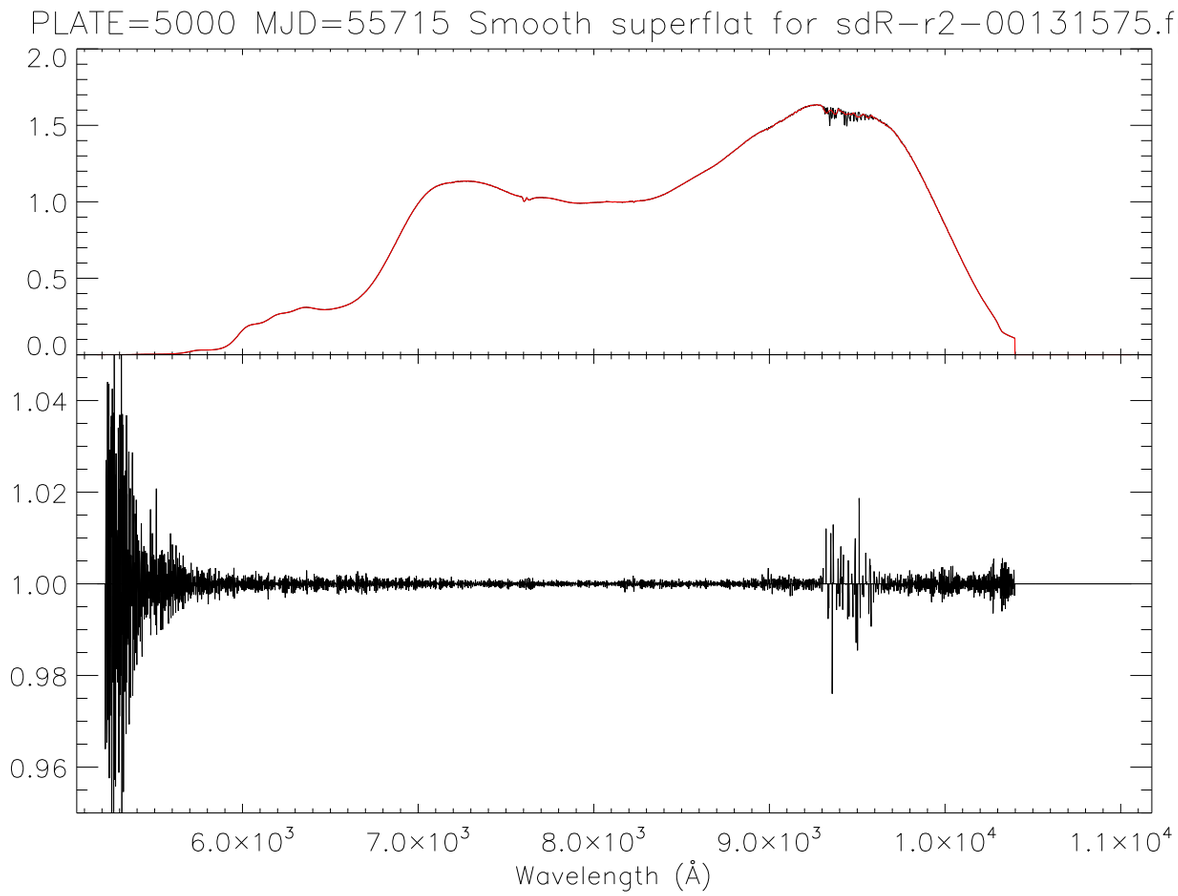

PLATE=5000 MJD=55715 sdR-r2-00131574.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.34 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

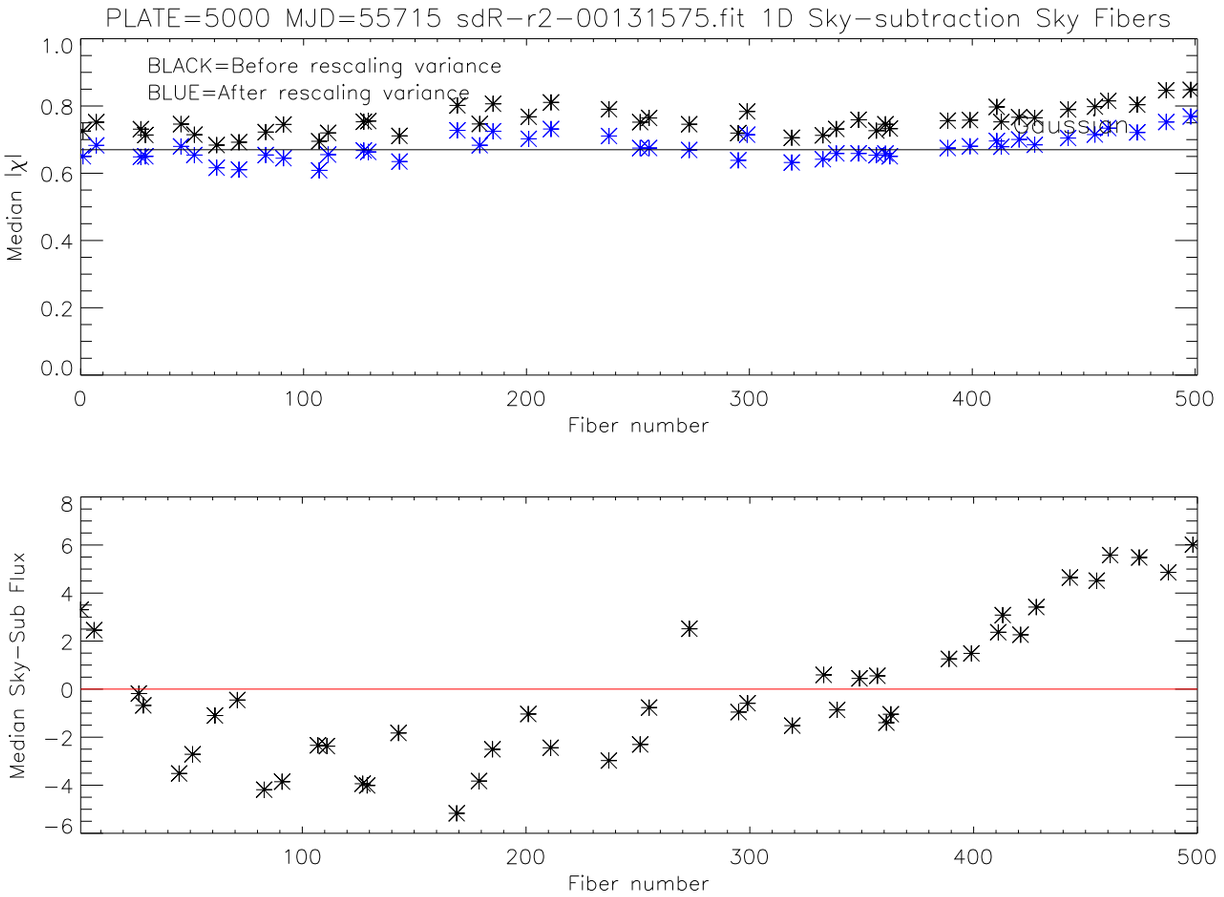

PLATE=5000 MJD=55715 sdR-r2-00131574.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = +/- 4.40 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

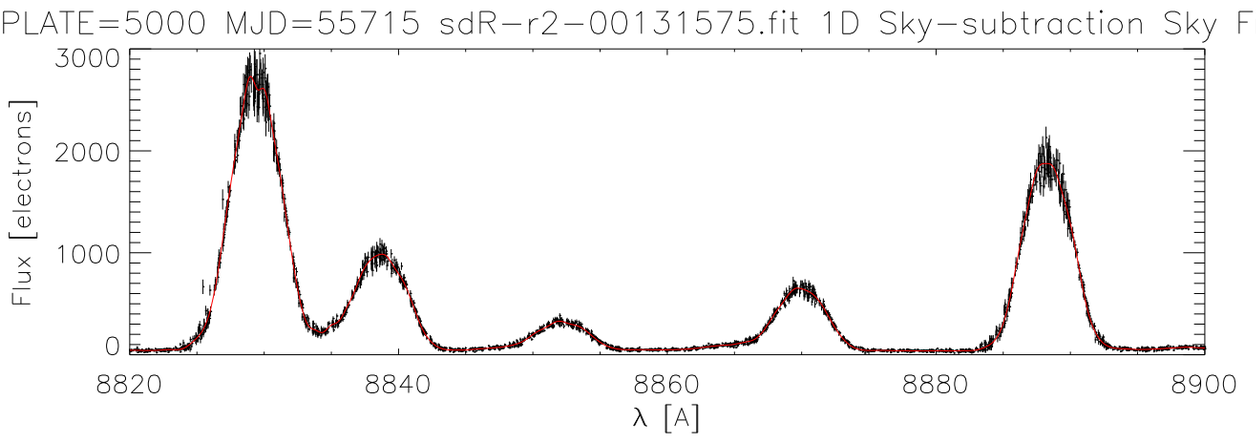

PLATE=5000 MJD=55715 Fiber−Flats for sdR−r2−00131570.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −7.455
Max value = 2.470
Fiber−Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Sat May 28 06:59:39 2016

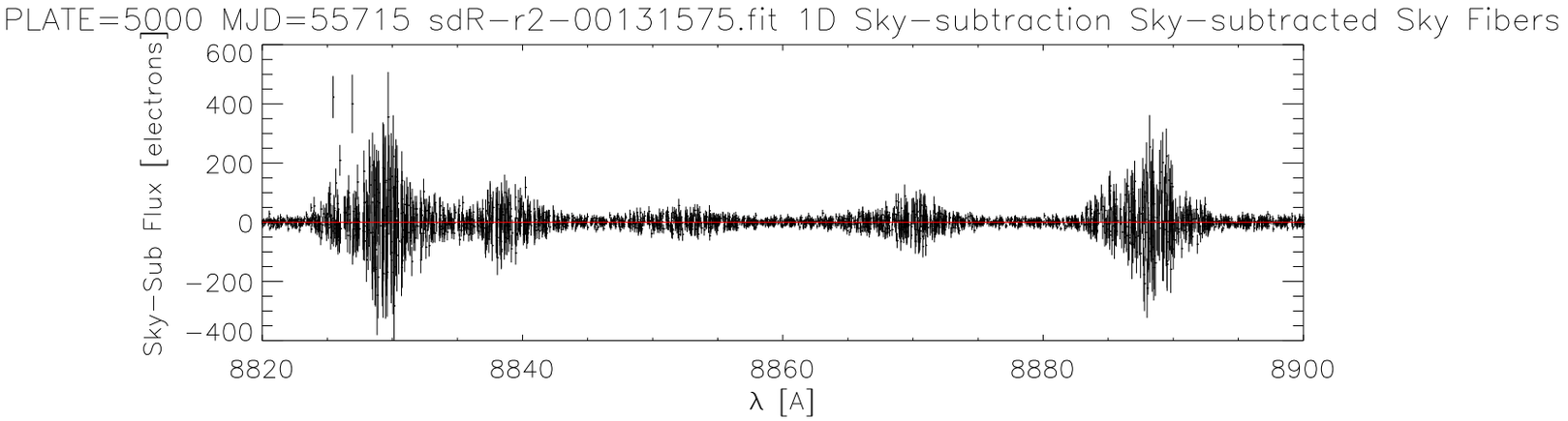

PLATE=5000 MJD=55715 Extraction chi^2 for sdR−r2−00131575.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=5000 MJD=55715 Sky Line Deviations for sdR-r2-00131575.fit
Fiber Number
Sky Line Wavelength
Before shift
After shift
1.00 pix
0
100
200
300
400
500
5460 5577 6300 6363 6553 6923 6949 7571 7794 7821 8399 8430 8885 8919

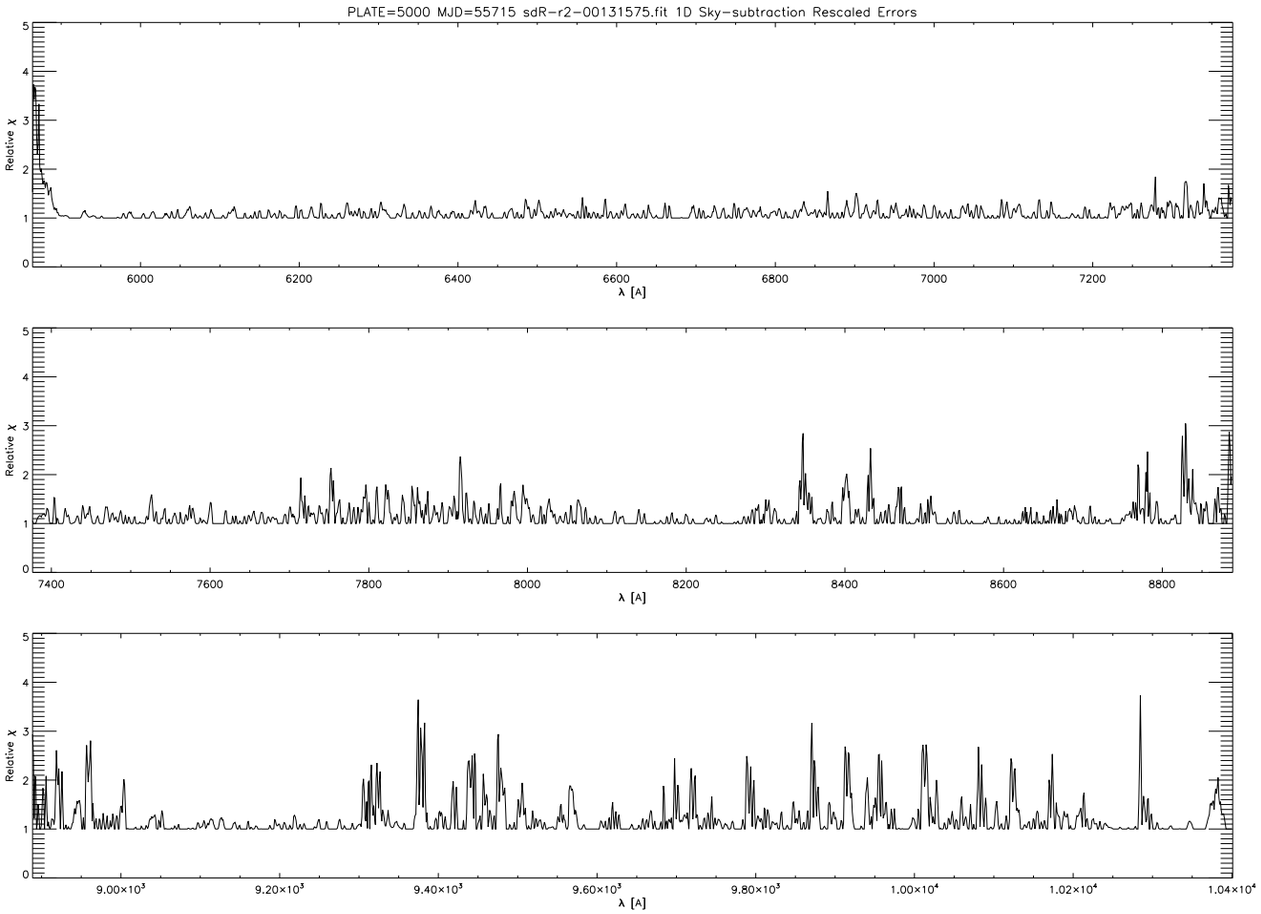

PLATE=5000 MJD=55715 Smooth superflat for sdR-r2-00131575.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

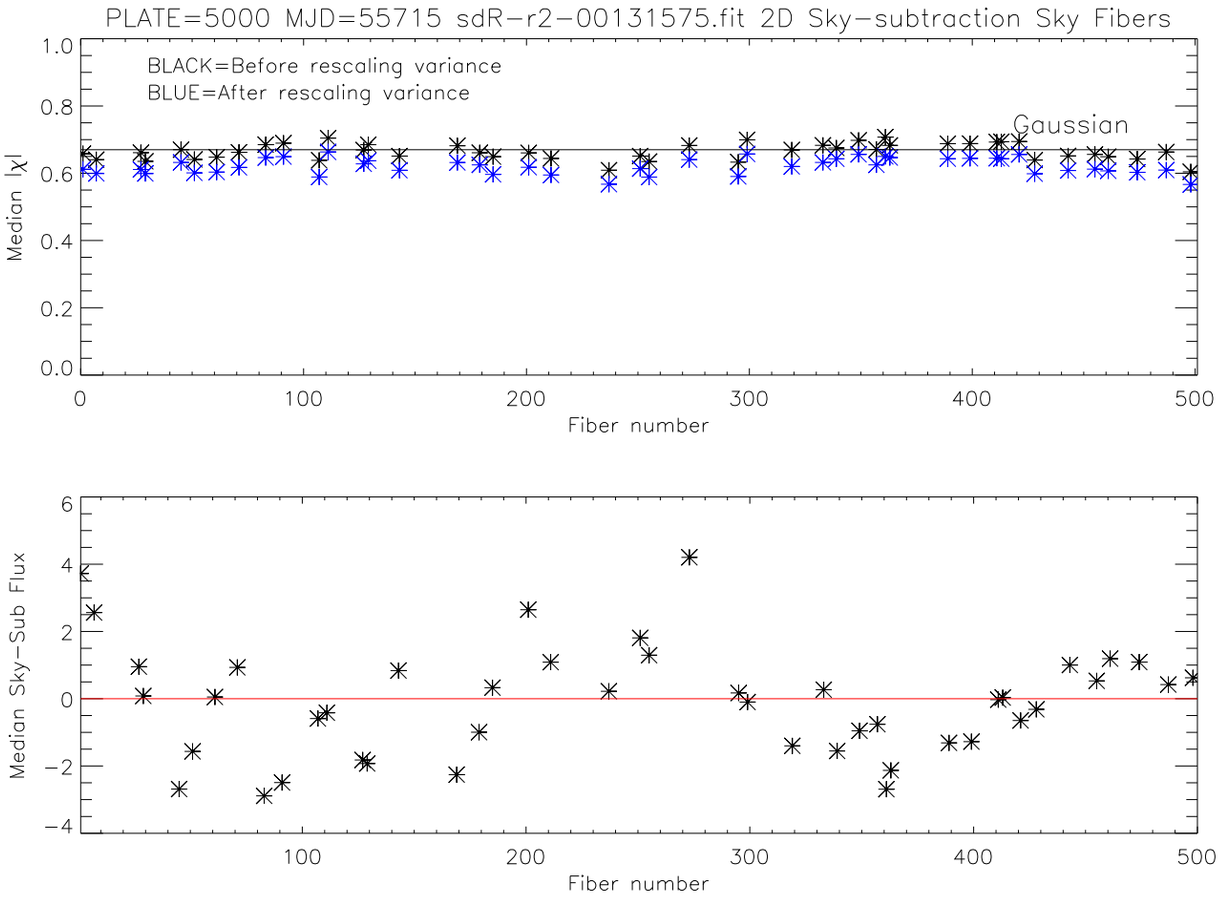

PLATE=5000 MJD=55715 sdR-r2-00131575.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

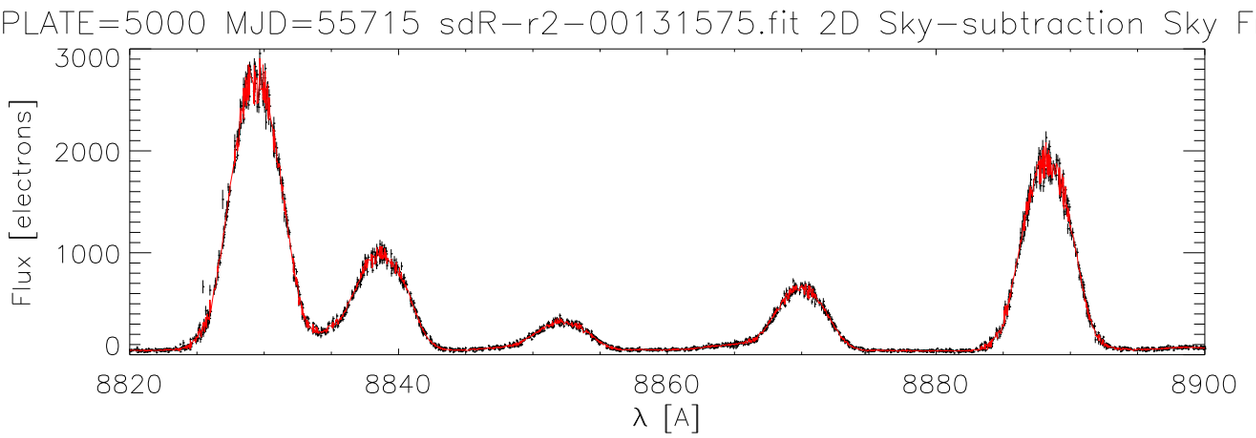

PLATE=5000 MJD=55715 sdR-r2-00131575.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

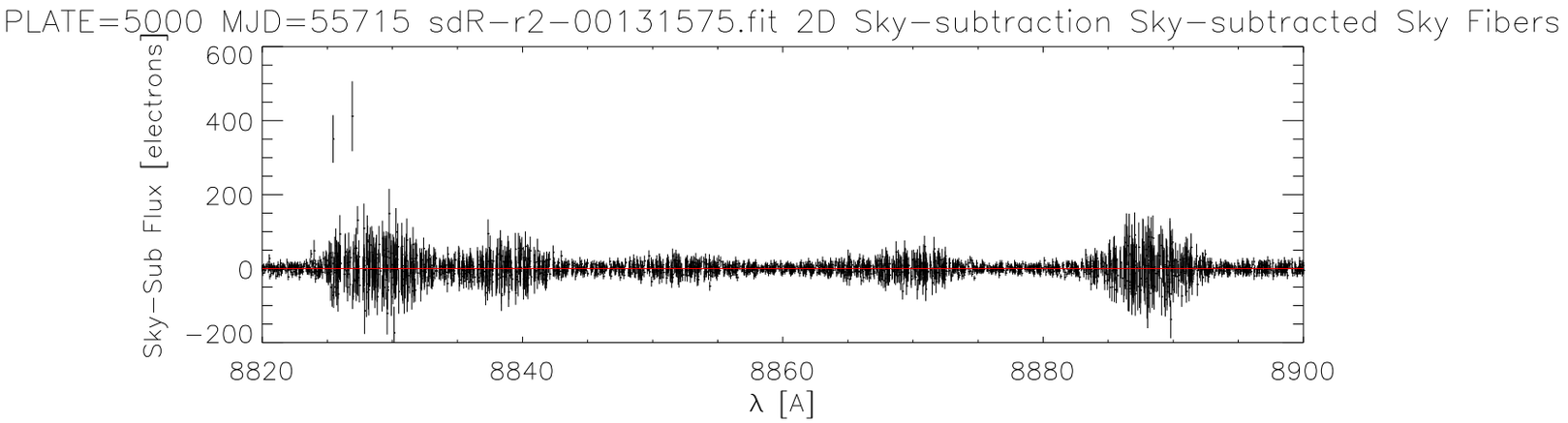

PLATE=5000 MJD=55715 sdR-r2-00131575.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 45

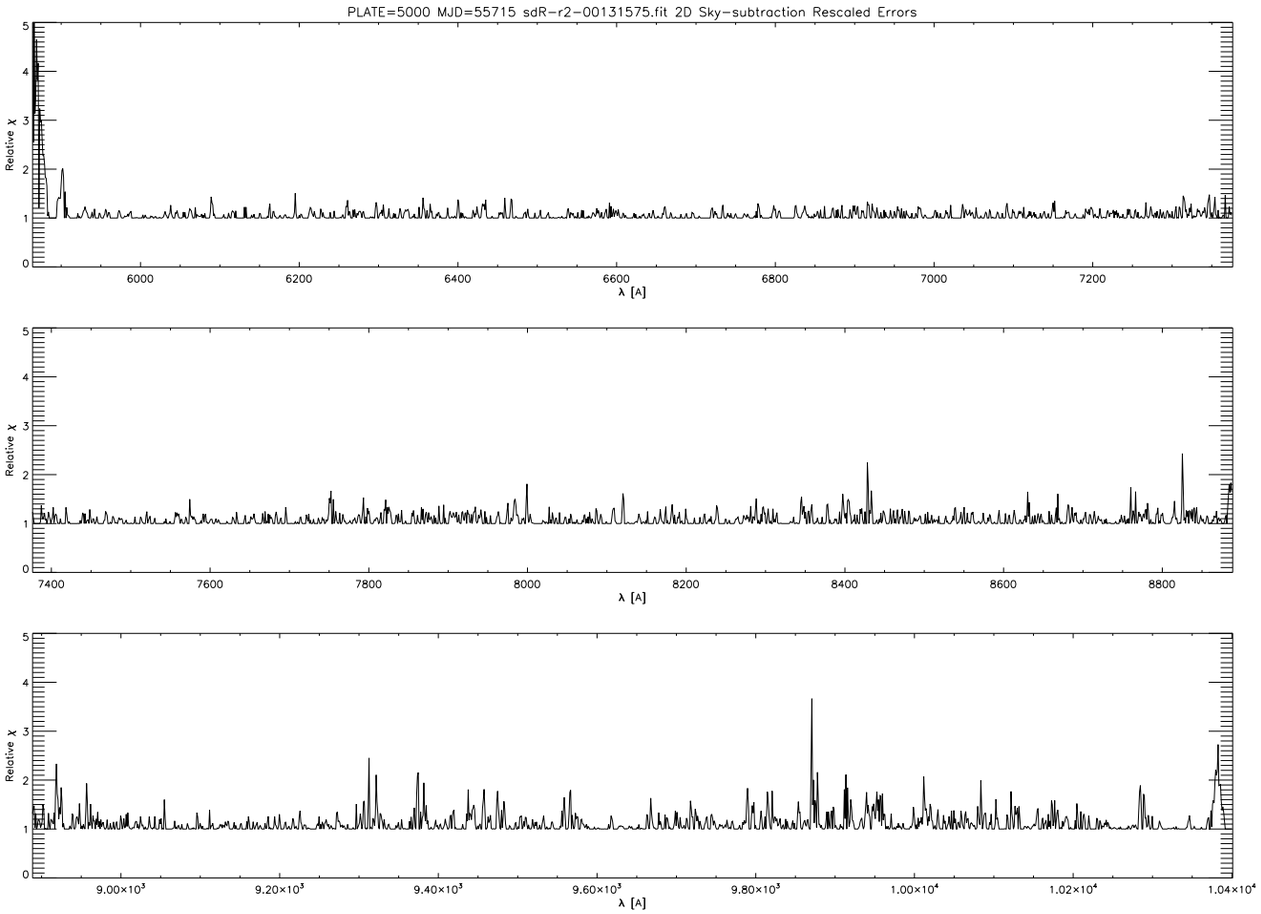


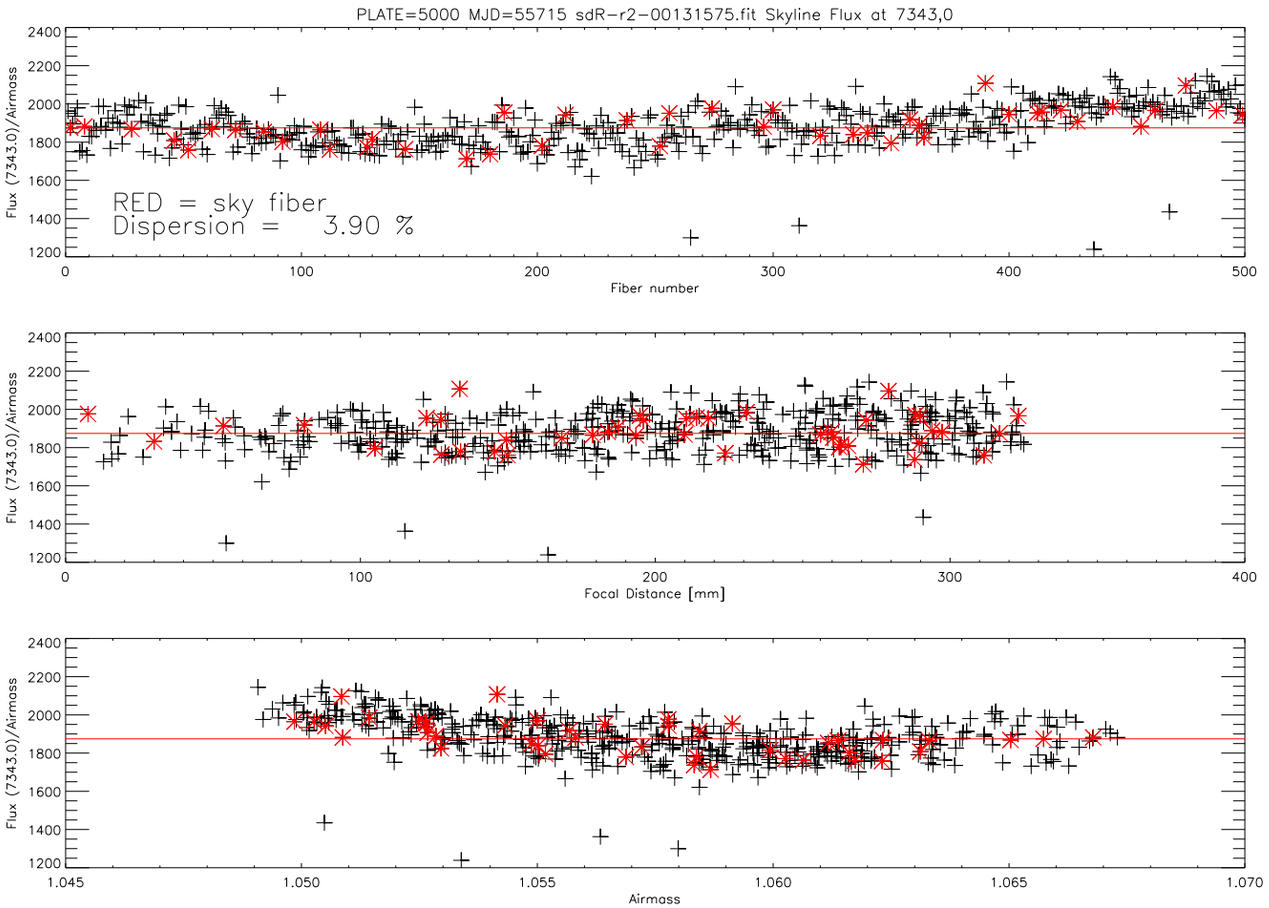

PLATE=5000 MJD=55715 sdR-r2-00131575.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

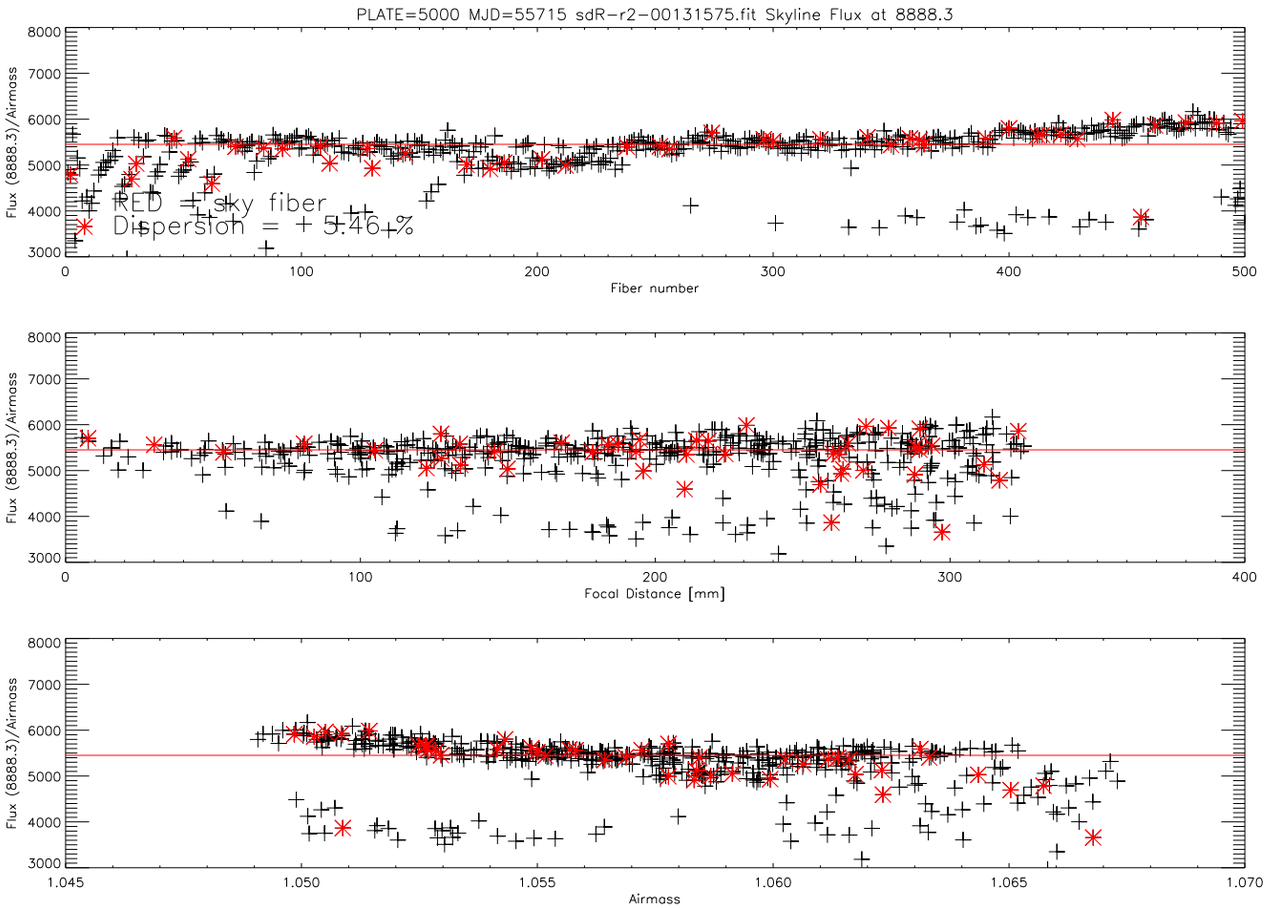

PLATE=5000 MJD=55715 sdR-r2-00131575.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]


PLATE=5000 MJD=55715 sdR-r2-00131575.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 45




PLATE=5000 MJD=55715 sdR-r2-00131575.fit Skyline Flux at 7343.0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.90 %
Fiber number
Focal Distance [mm]
Airmass


PLATE=5000 MJD=55715 sdR-r2-00131575.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Disperstion = + 5.46+%
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass