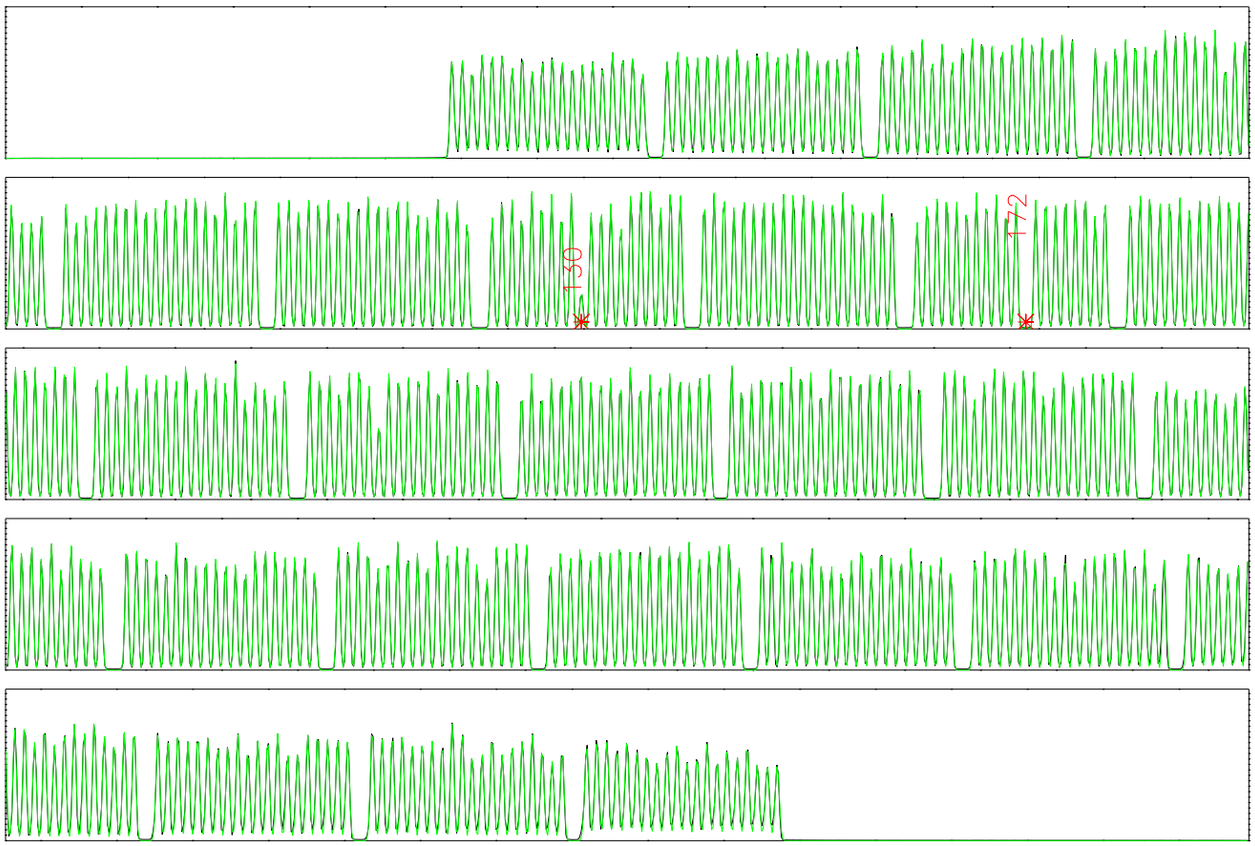
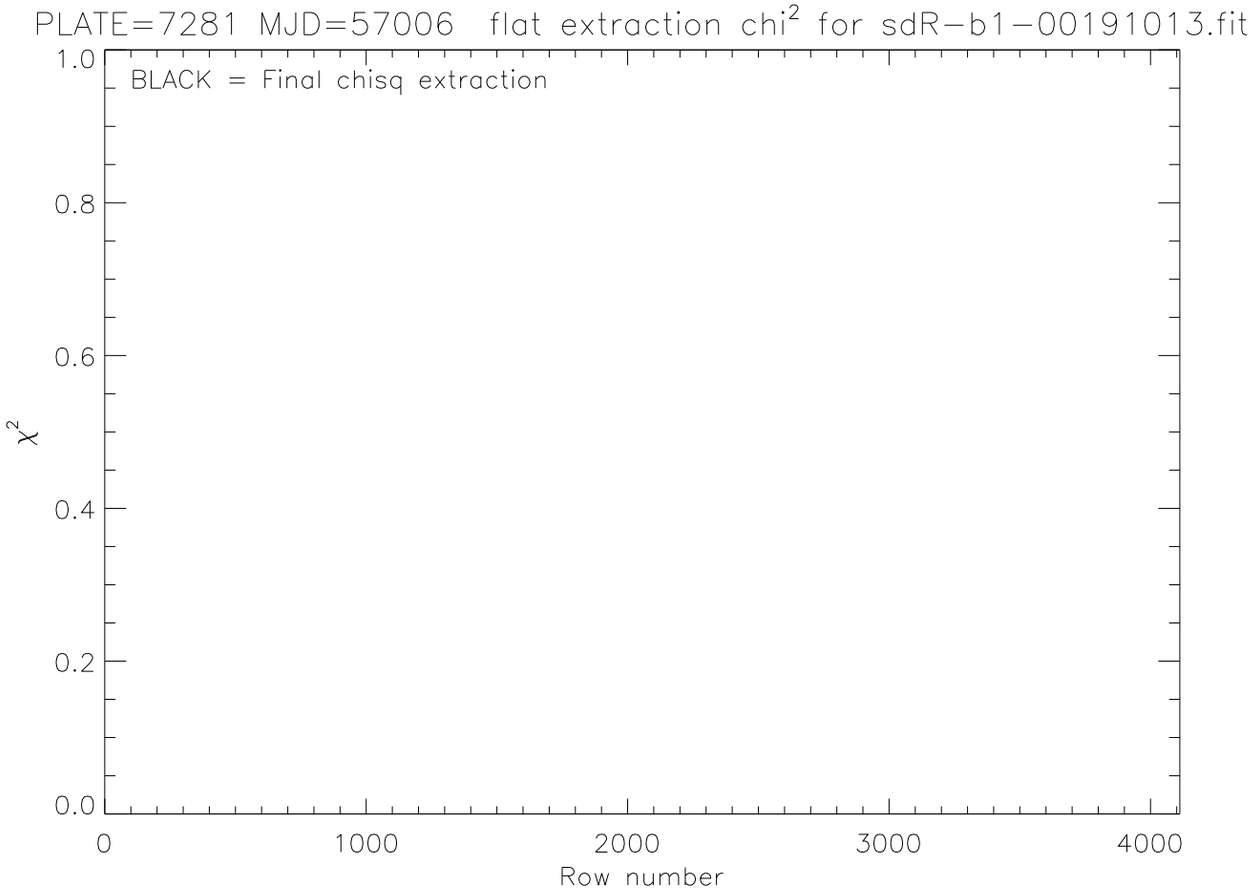
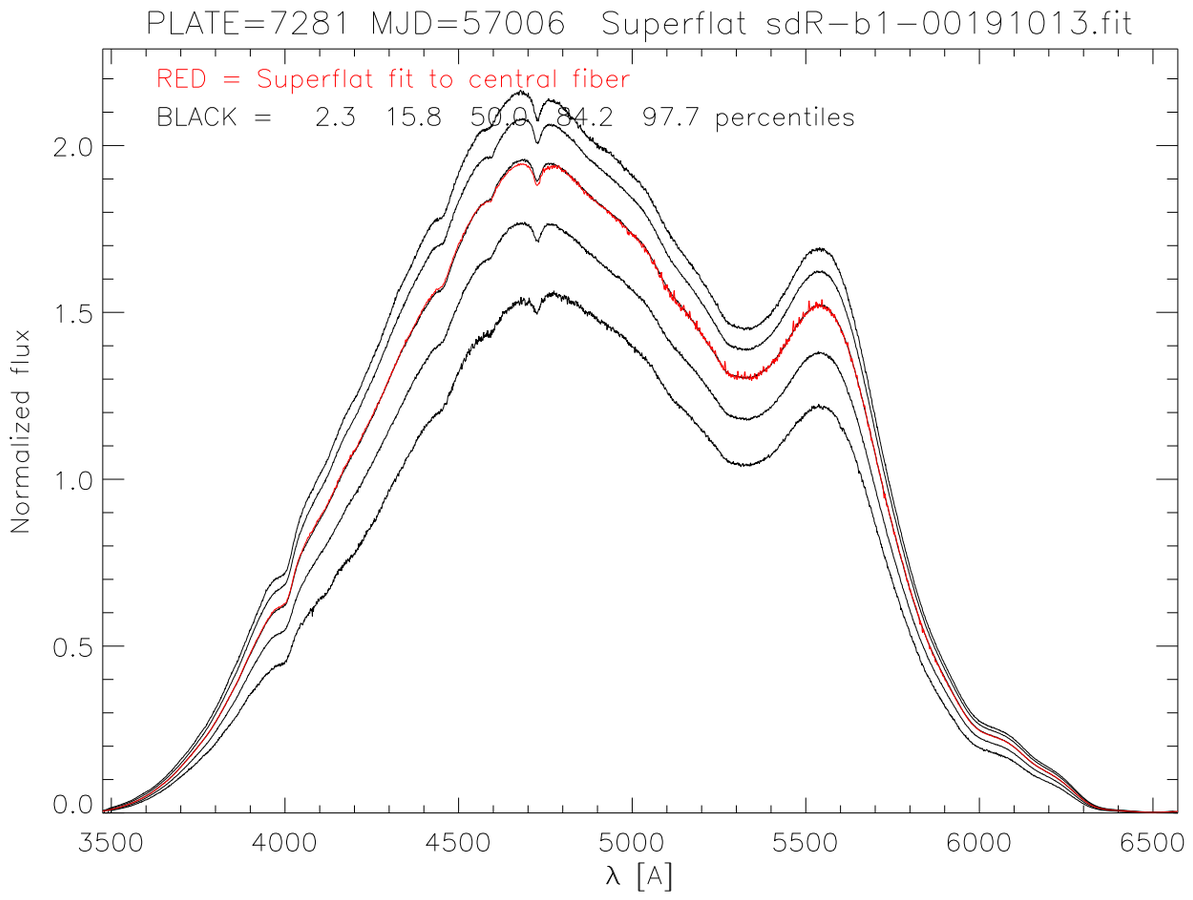
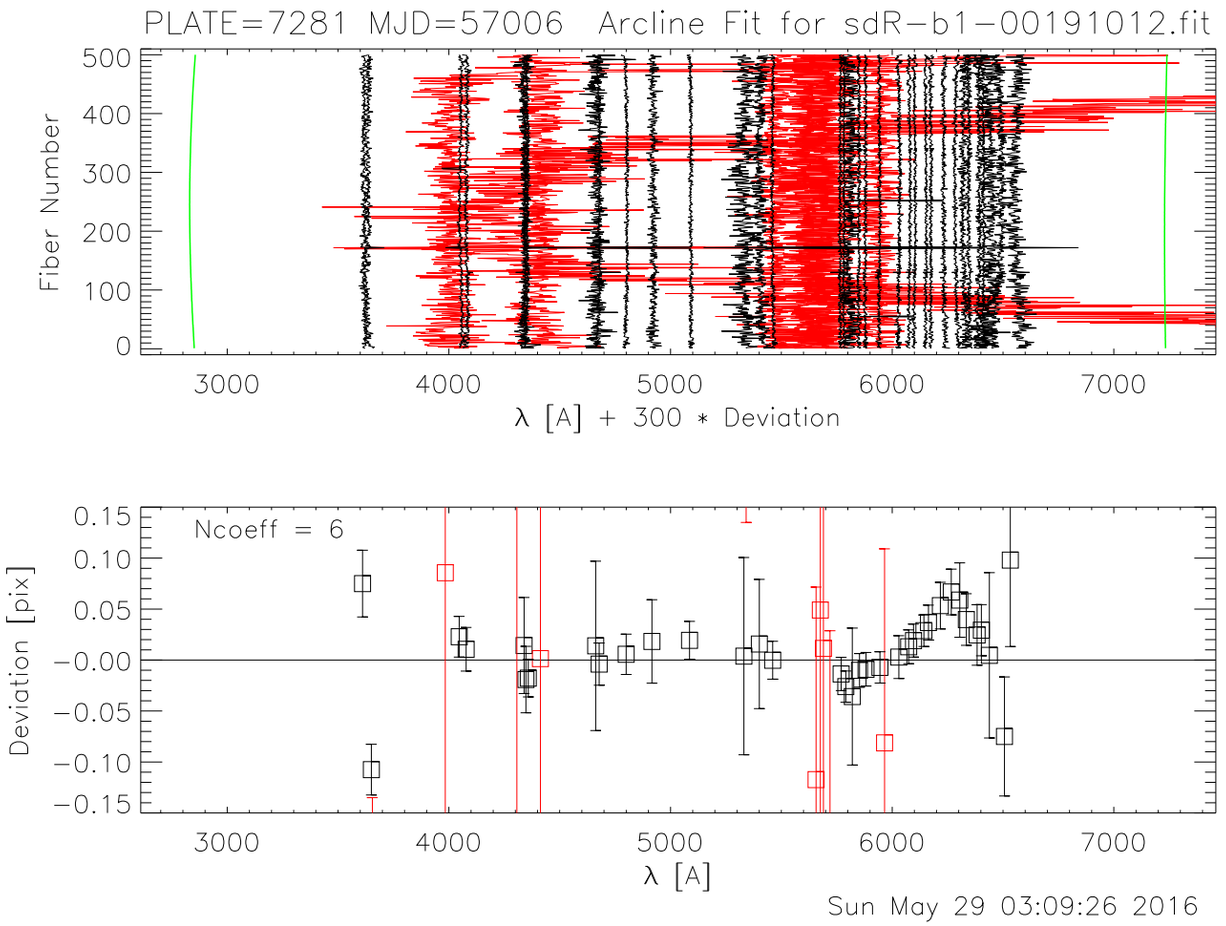
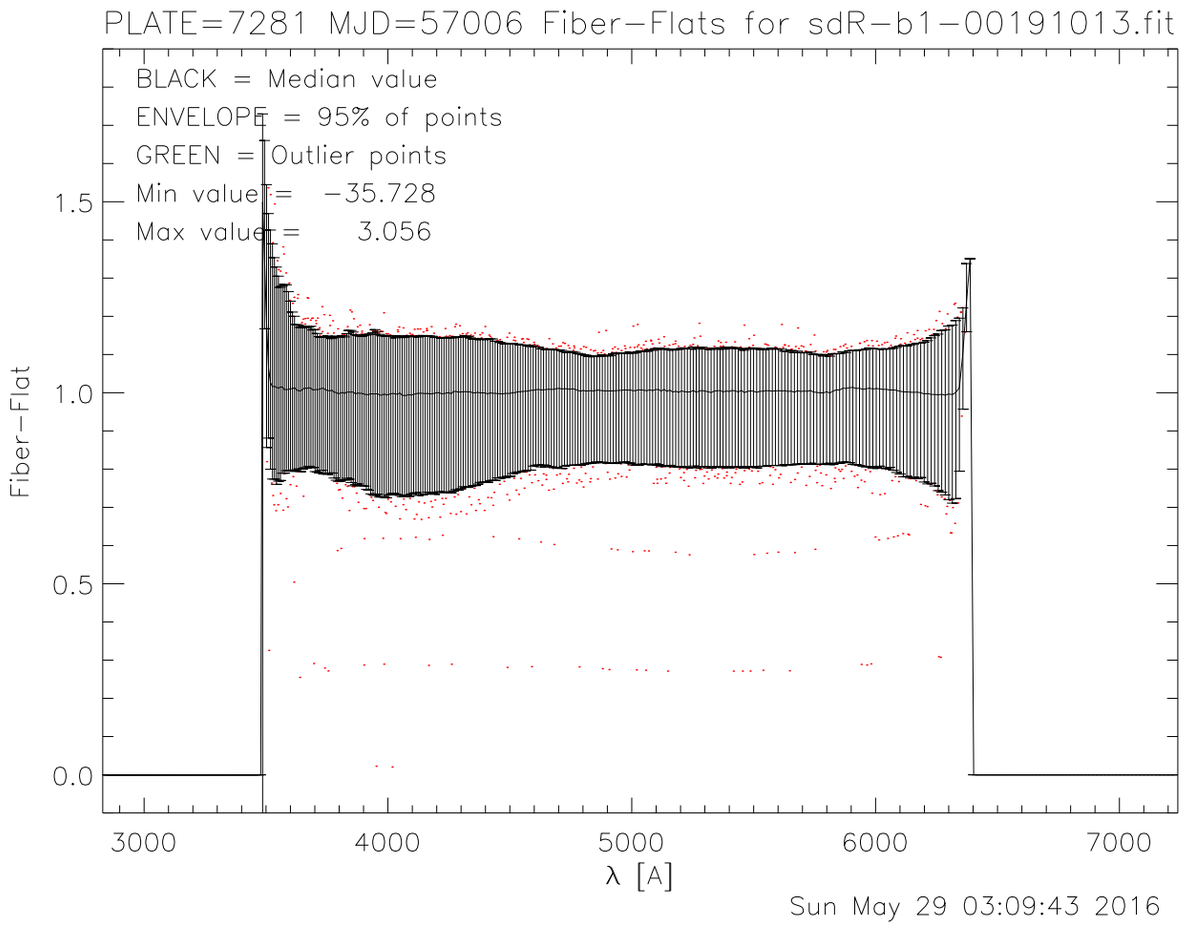
PLATE=7281 MJD=57006 Traces sdR-b1-00191013.fit

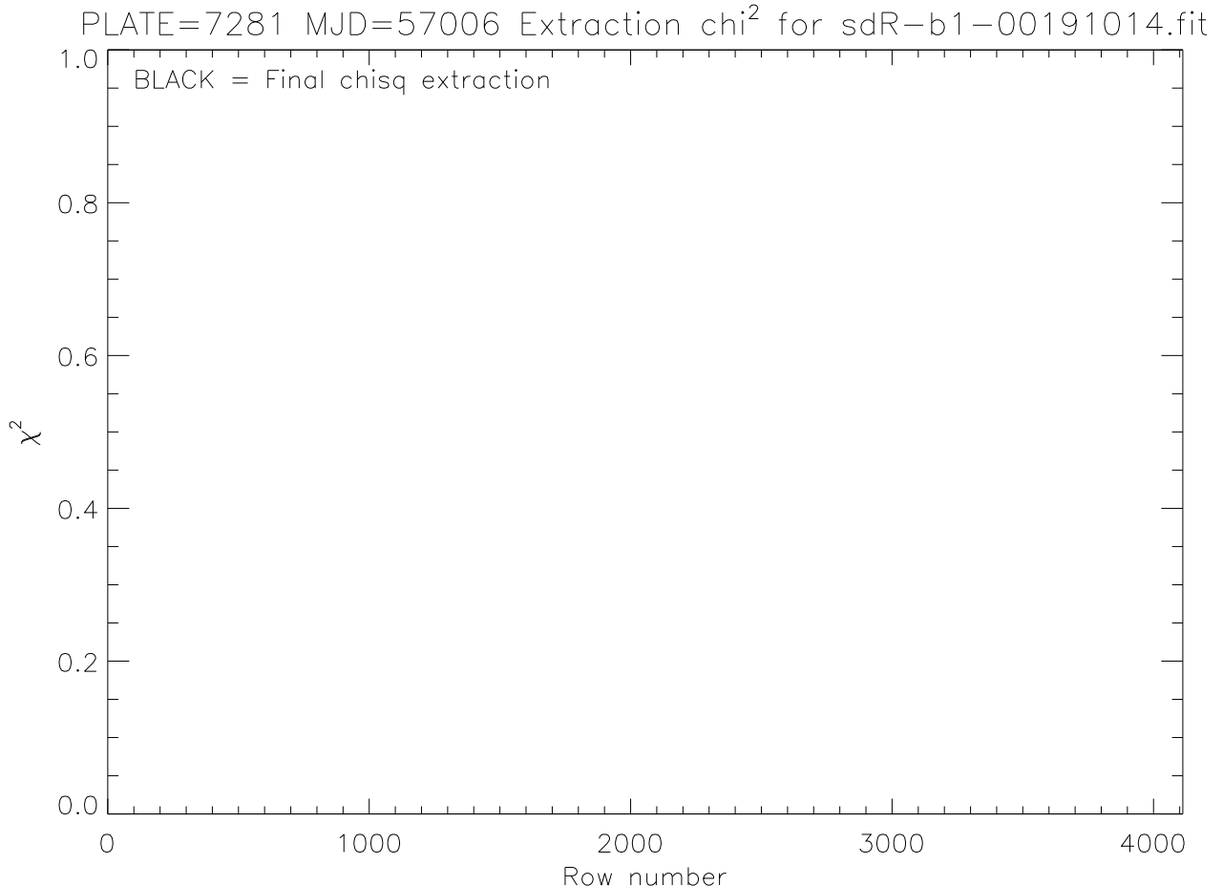


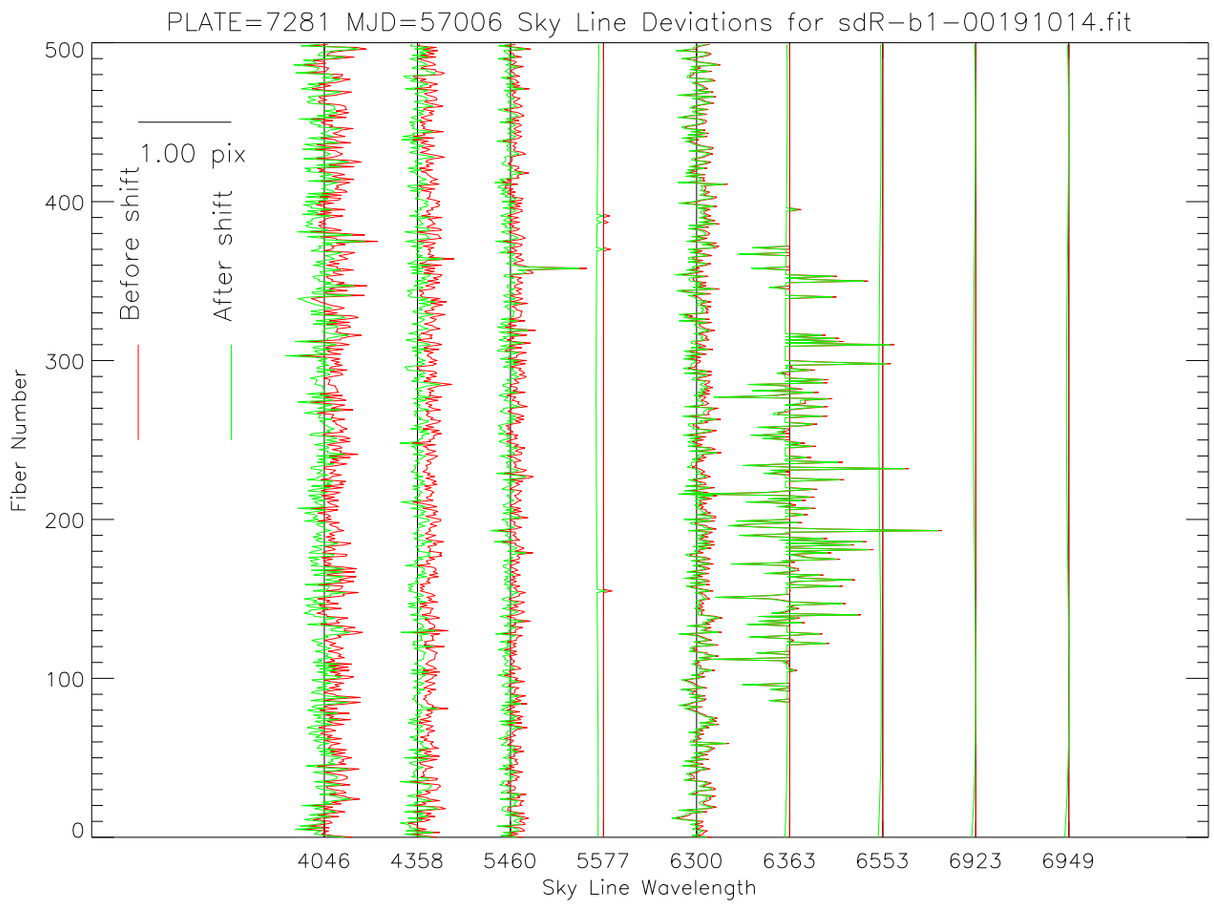

PLATE=7281 MJD=57006 flat extraction chi^2 for sdR-b1-00191013.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number

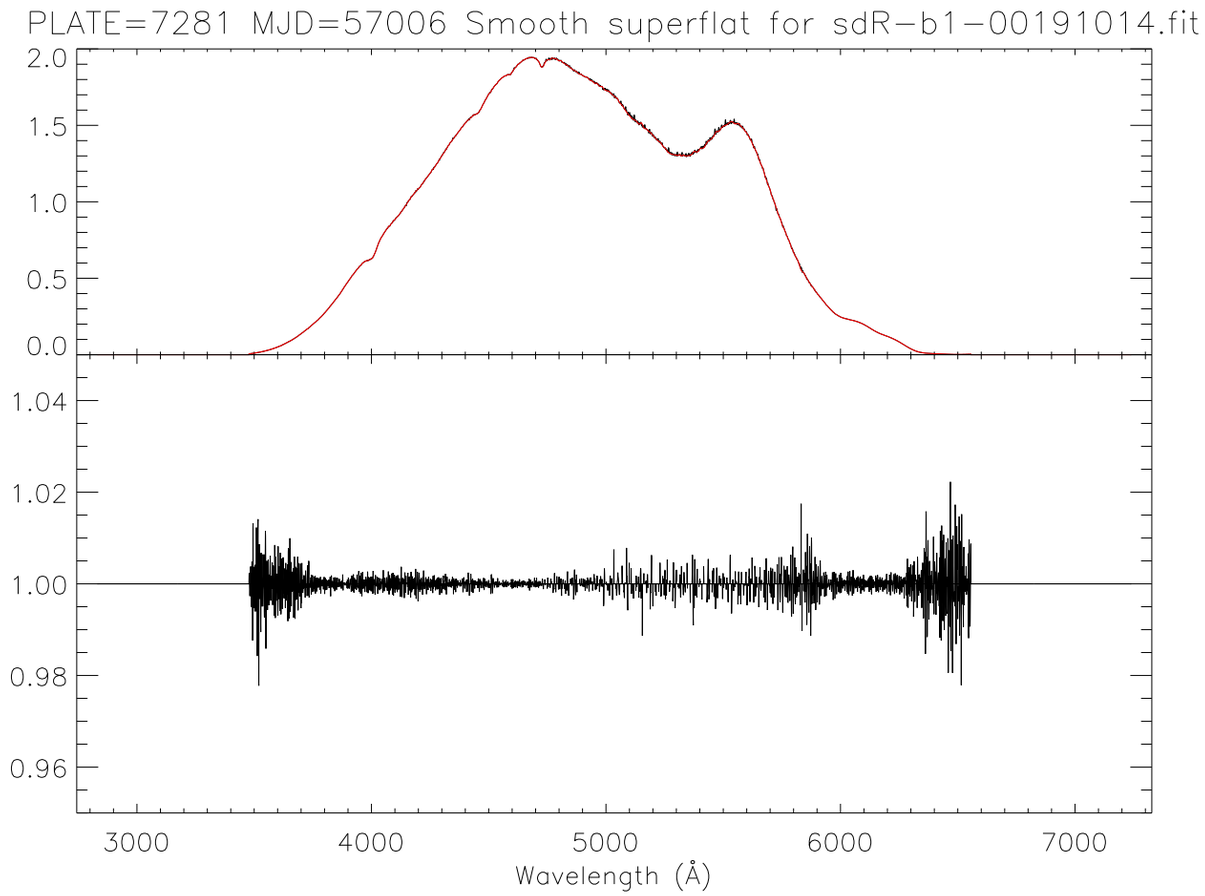

PLATE=7281 MJD=57006 Superflat sdR-b1-00191013.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
0.0
0.5
1.0
1.5
2.0
3500
4000
4500
5000
5500
6000
6500
λ [A]

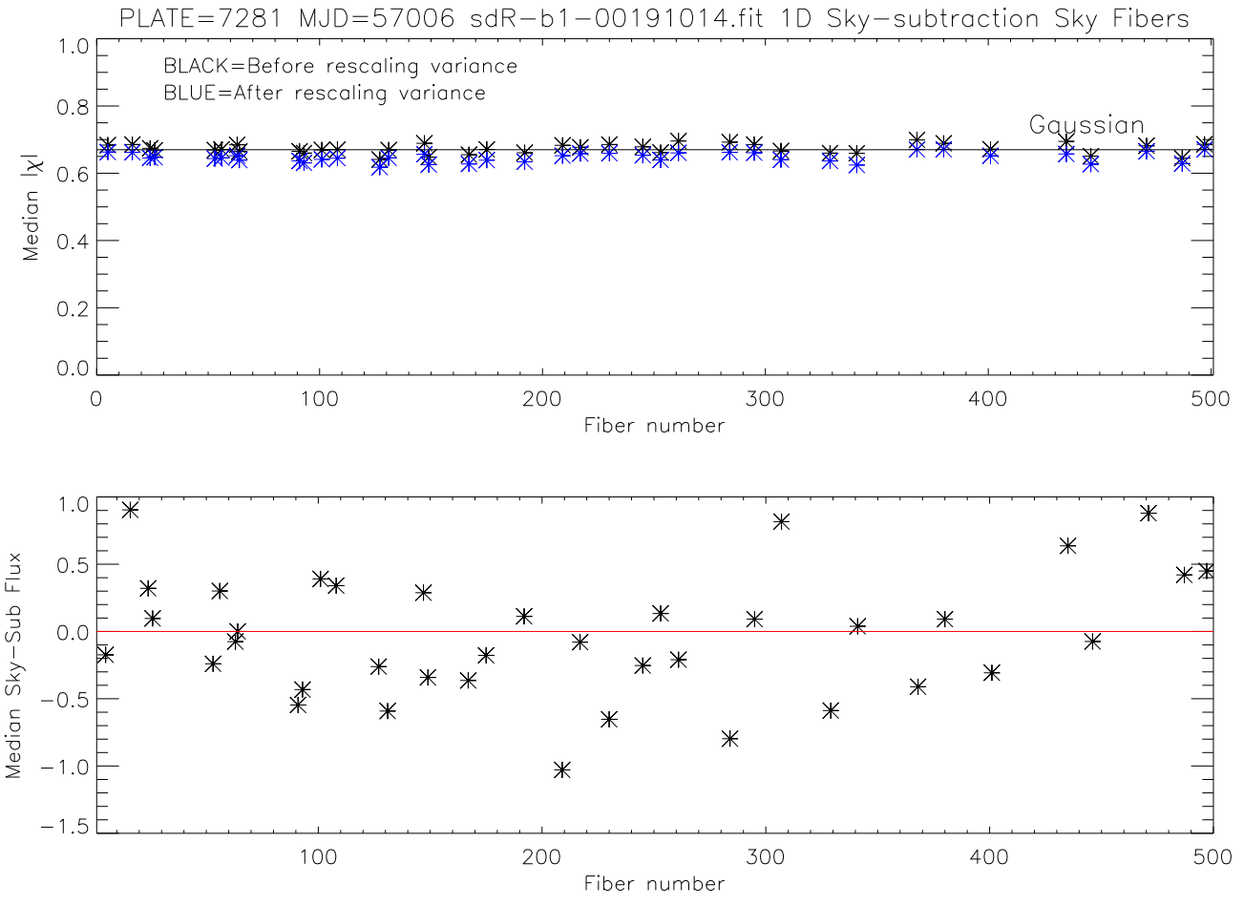

PLATE=7281 MJD=57006 Arcline Fit for sdR-b1-00191012.fit
Fiber Number
0
100
200
300
400
500
3000
4000
5000
6000
7000
λ [A] + 300 * Deviation
Ncoeff = 6
Deviation [pix]
0.15
0.10
0.05
−0.00
−0.05
−0.10
−0.15
3000
4000
5000
6000
7000
λ [A]
Sun May 29 03:09:26 2016

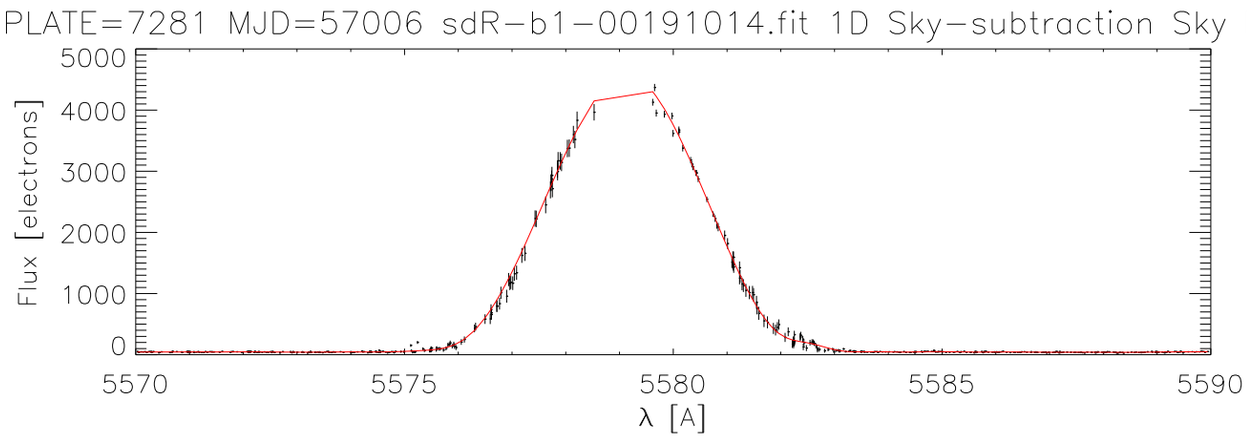

PLATE=7281 MJD=57006 Fiber−Flats for sdR−b1−00191013.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −35.728
Max value = 3.056
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sun May 29 03:09:43 2016

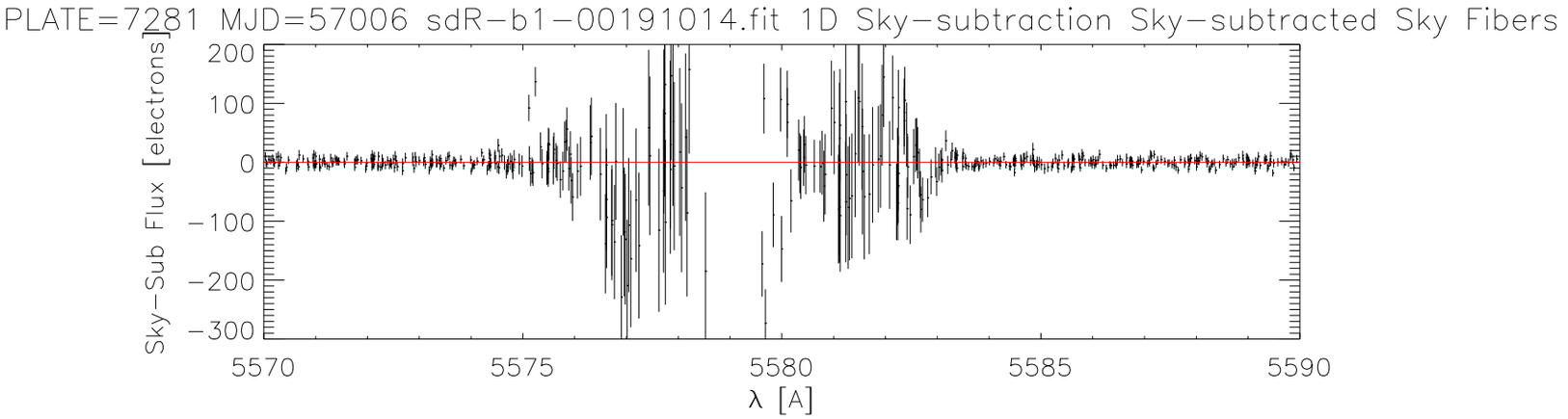

PLATE=7281 MJD=57006 Extraction chi^2 for sdR−b1−00191014.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=7281 MJD=57006 Sky Line Deviations for sdR-b1-00191014.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

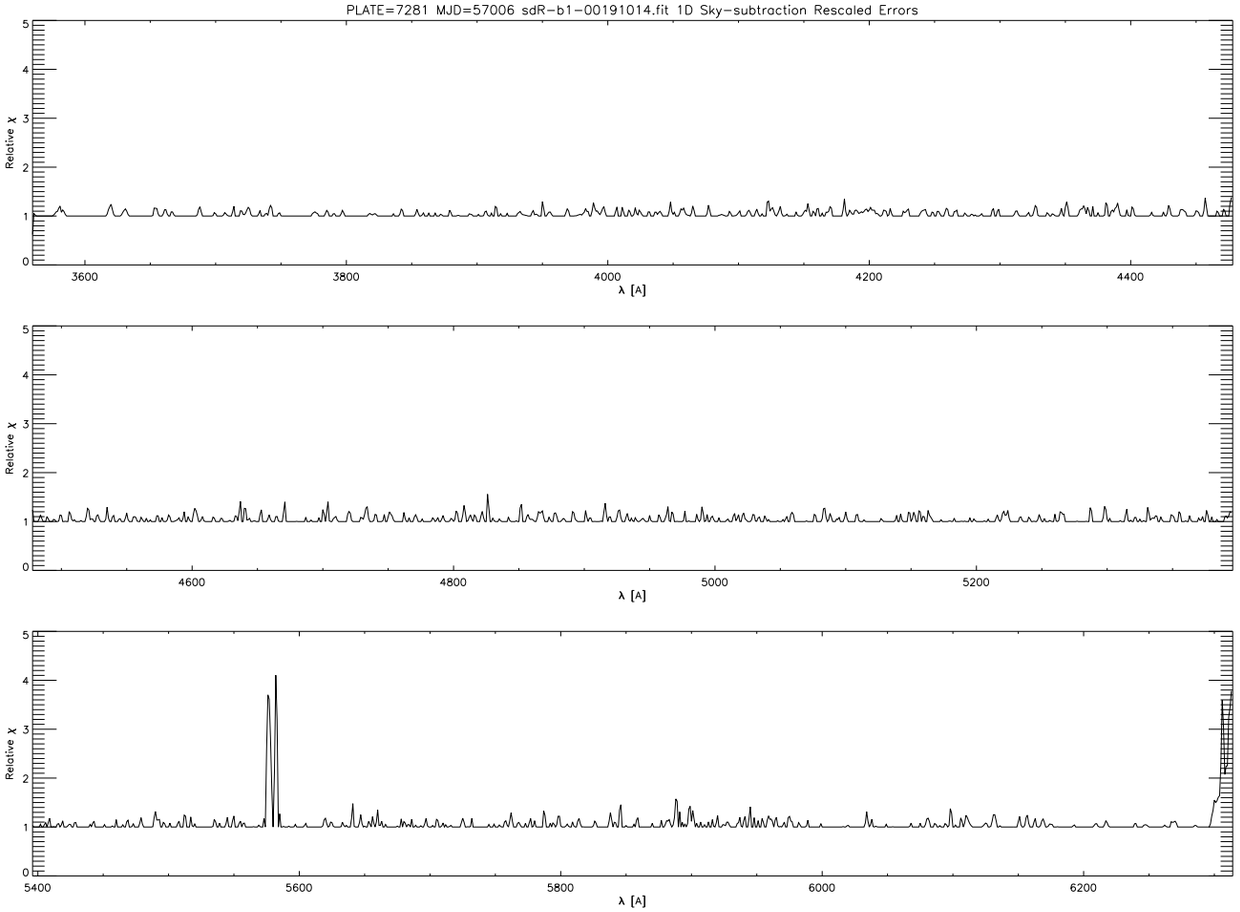

PLATE=7281 MJD=57006 Smooth superflat for sdR-b1-00191014.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

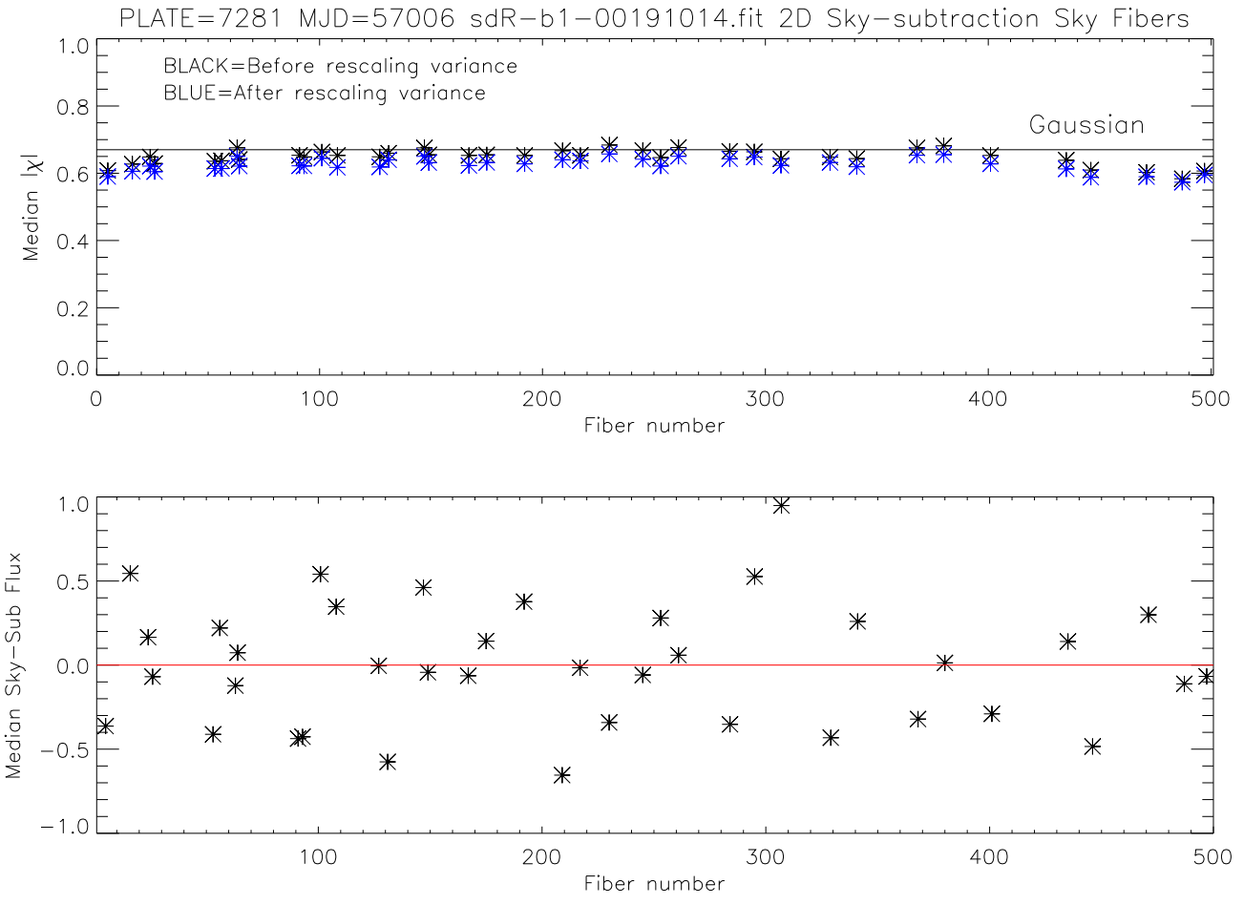

PLATE=7281 MJD=57006 sdR-b1-00191014.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

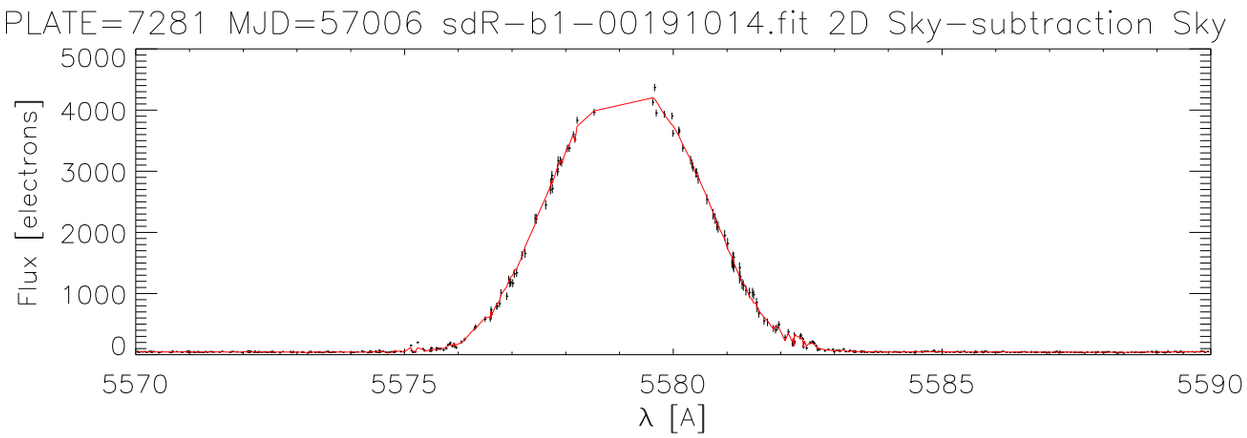

PLATE=7281 MJD=57006 sdR-b1-00191014.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

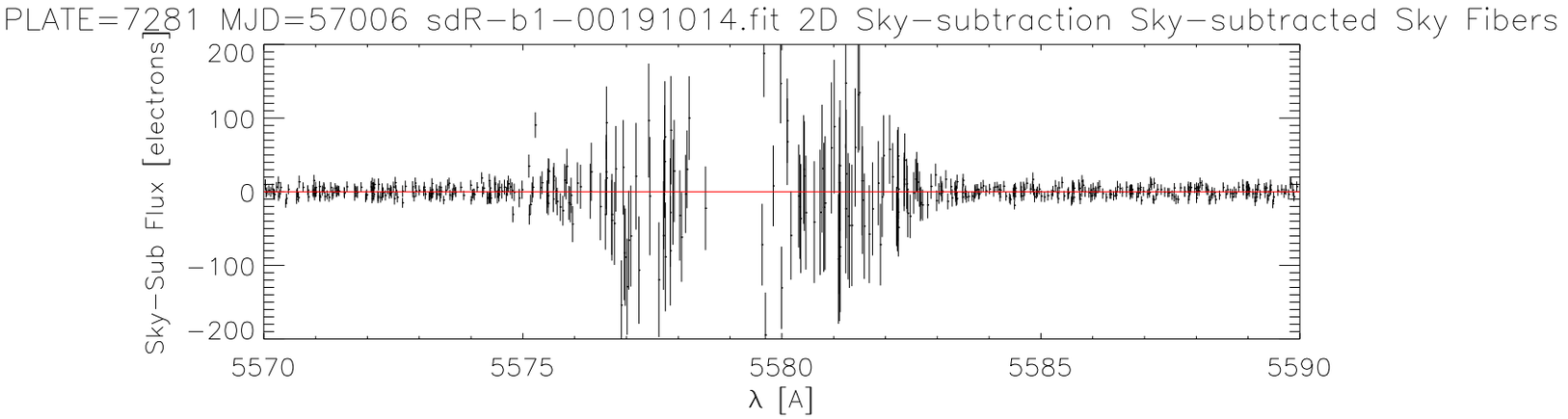

PLATE=7281 MJD=57006 sdR-b1-00191014.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 38

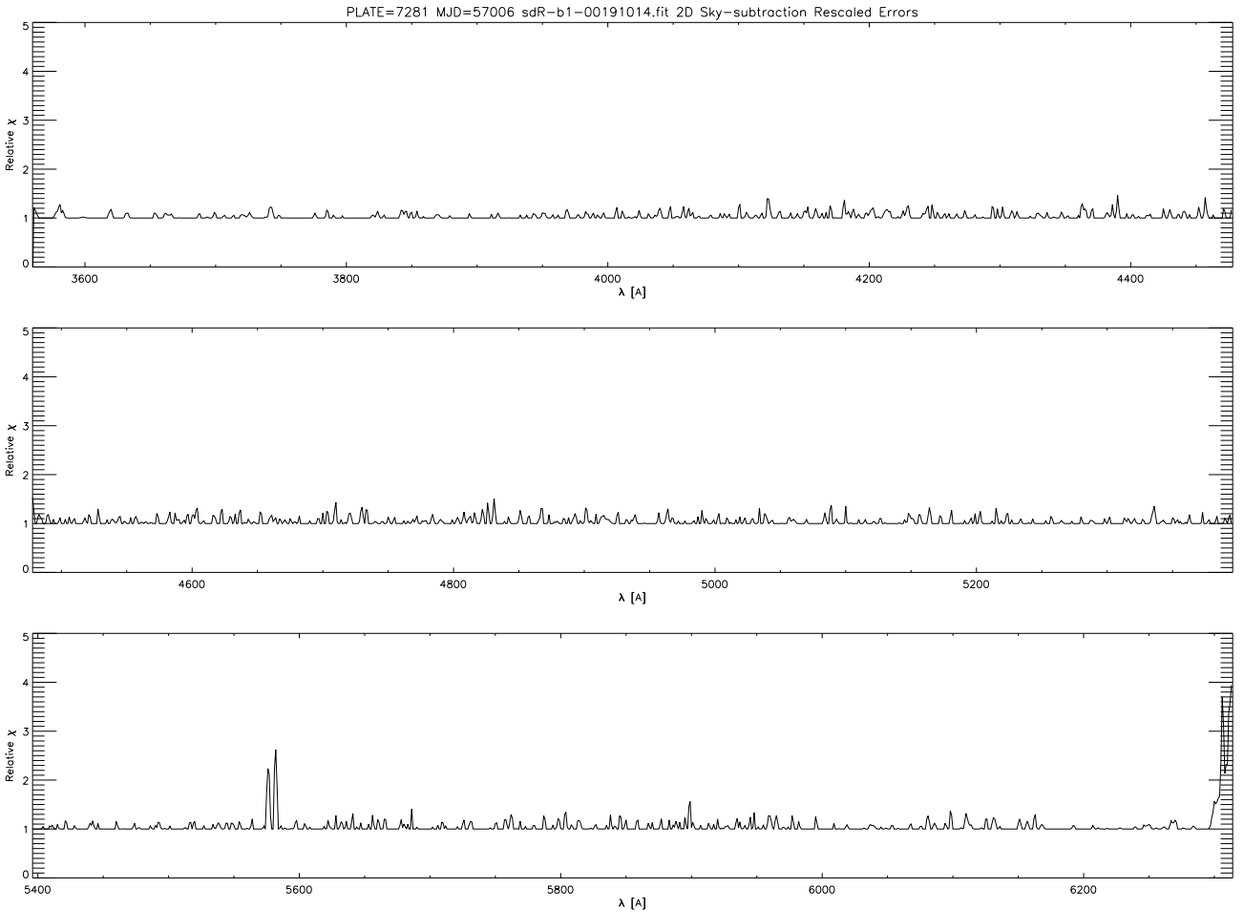


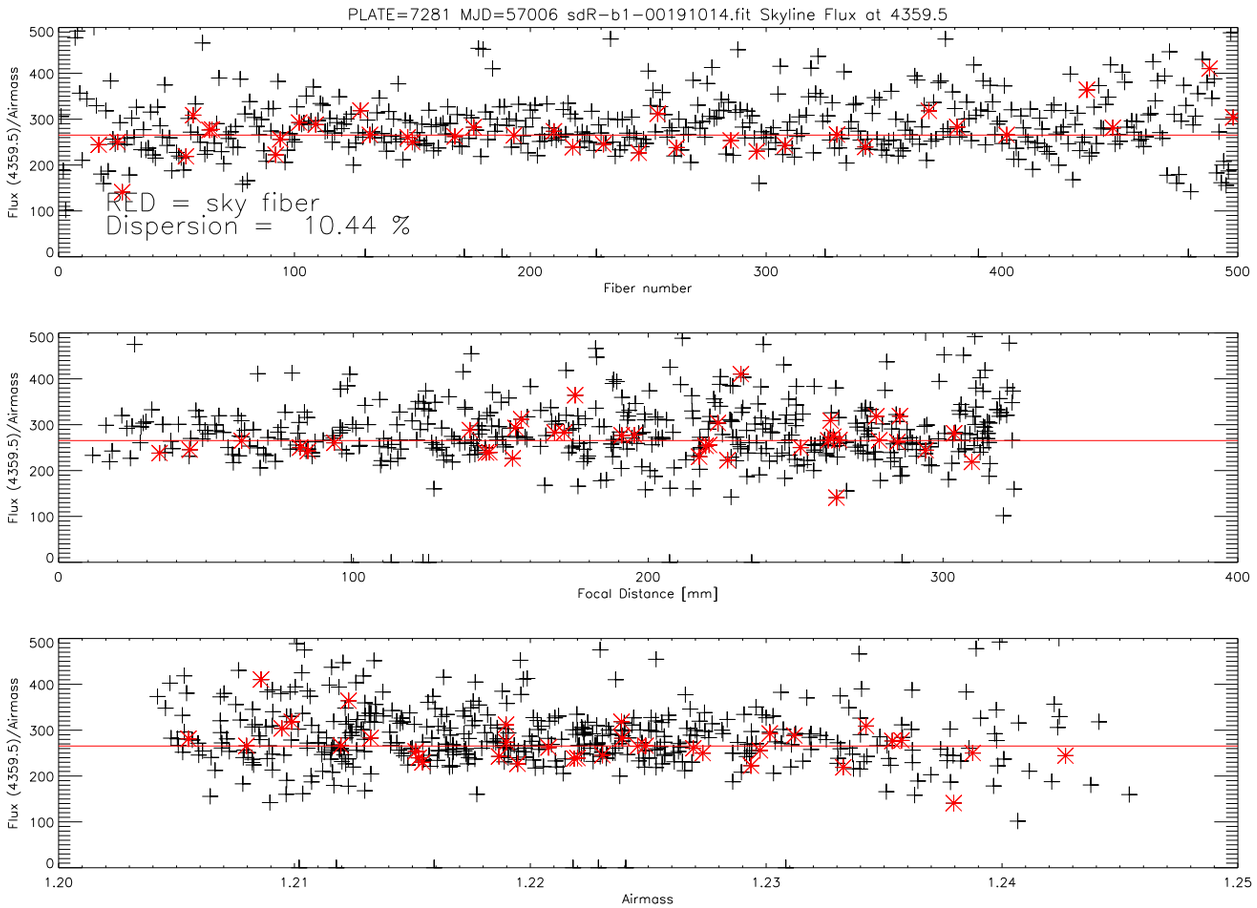

PLATE=7281 MJD=57006 sdR-b1-00191014.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

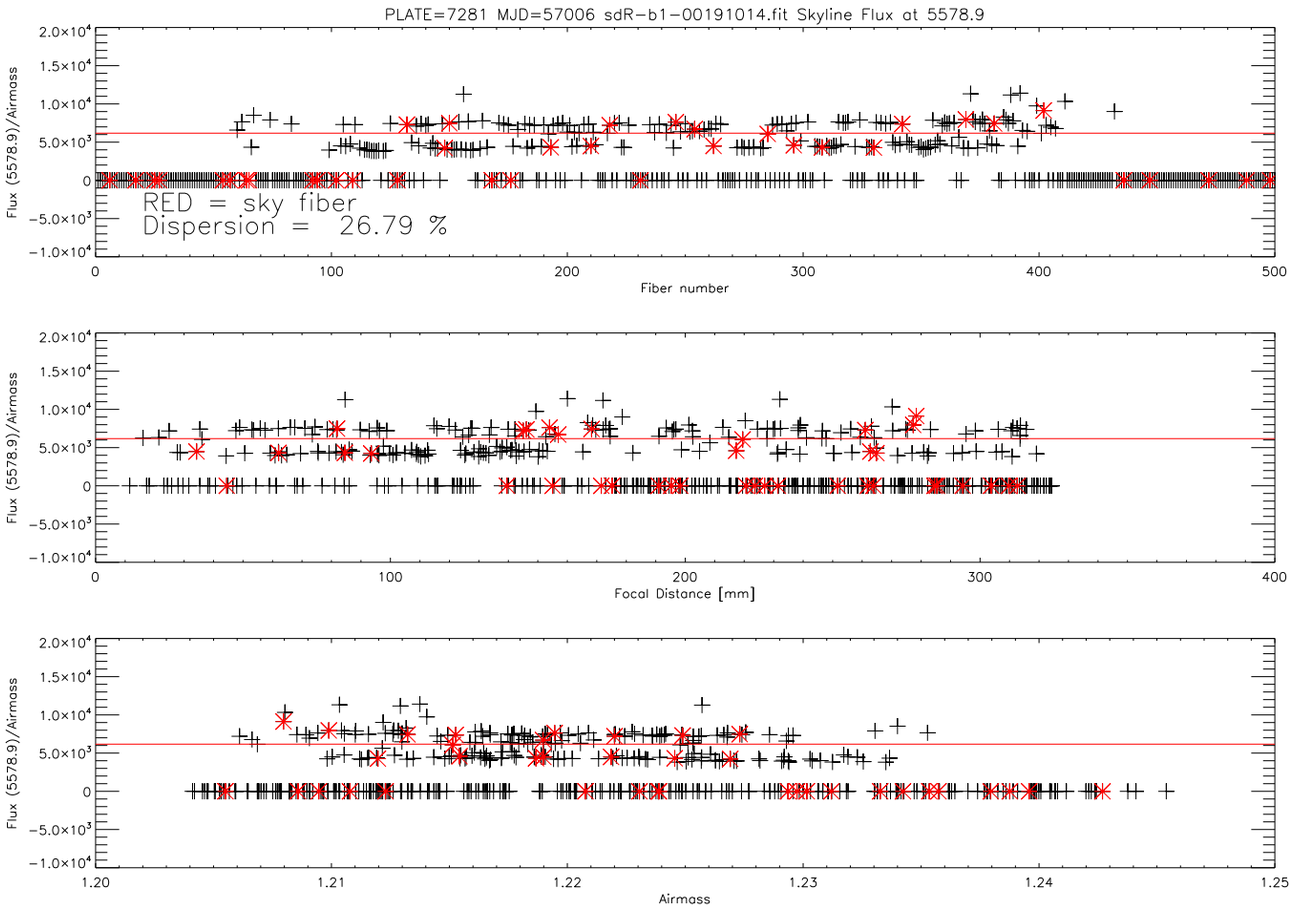

PLATE=7281 MJD=57006 sdR-b1-00191014.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

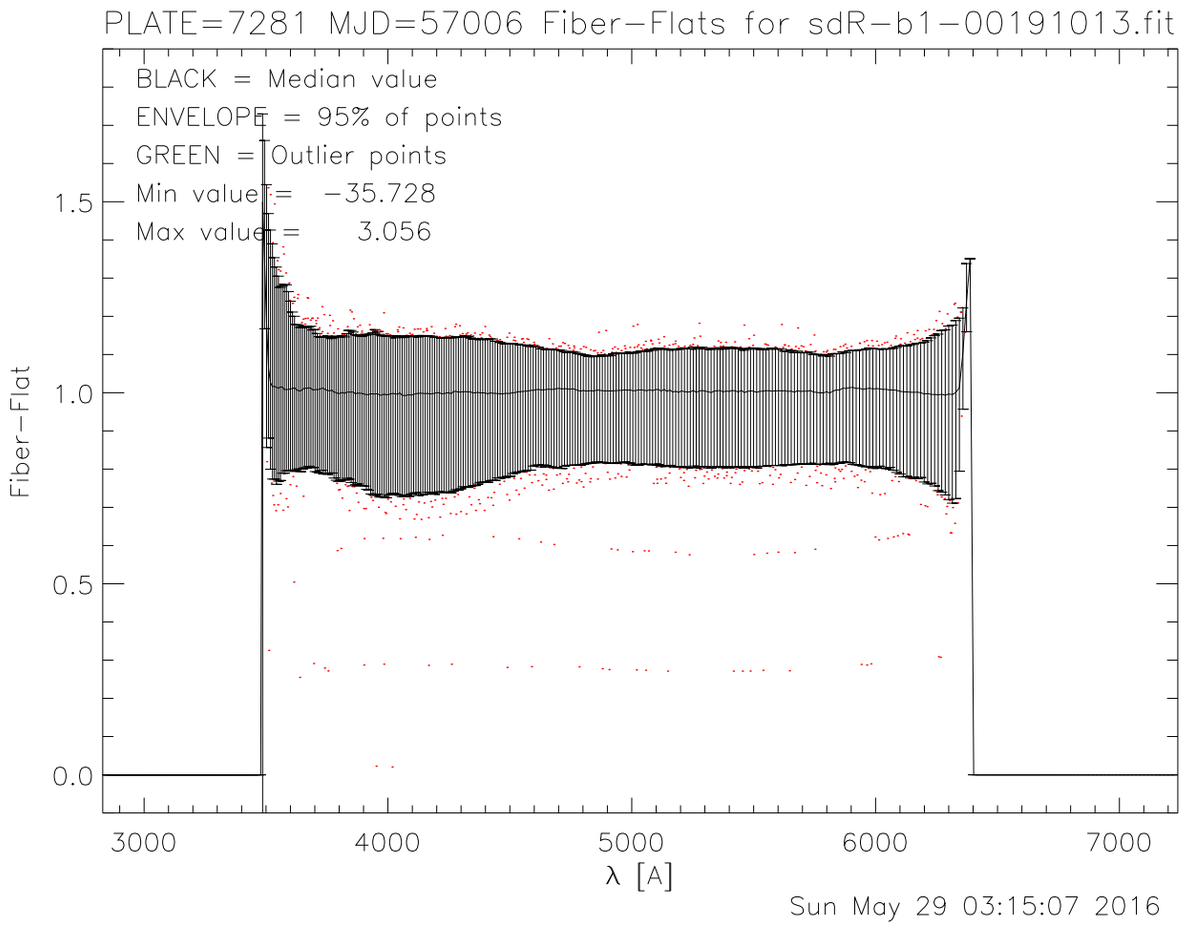

PLATE=7281 MJD=57006 sdR-b1-00191014.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
200
100
0
−100
−200
5570
5575
5580
5585
5590
λ [A]

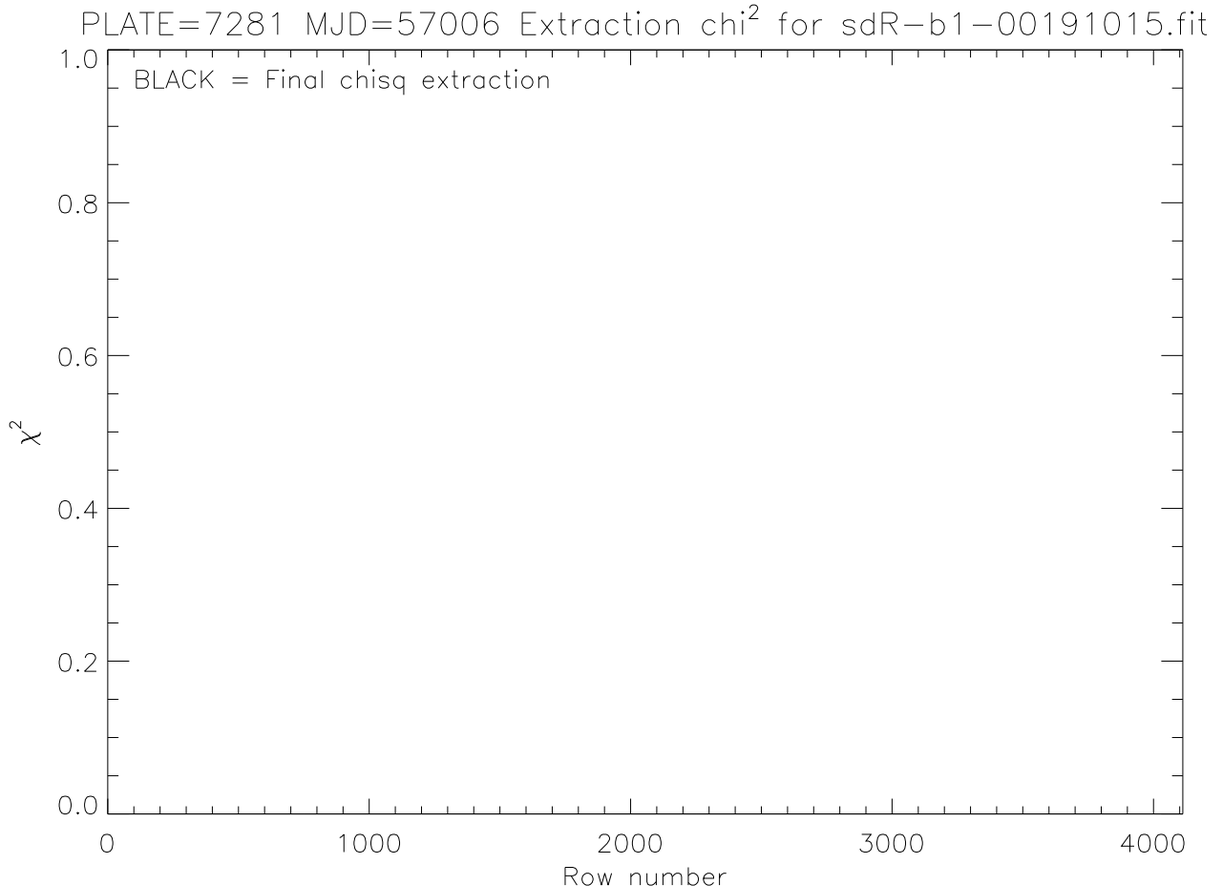
Number of sky fibers = 38

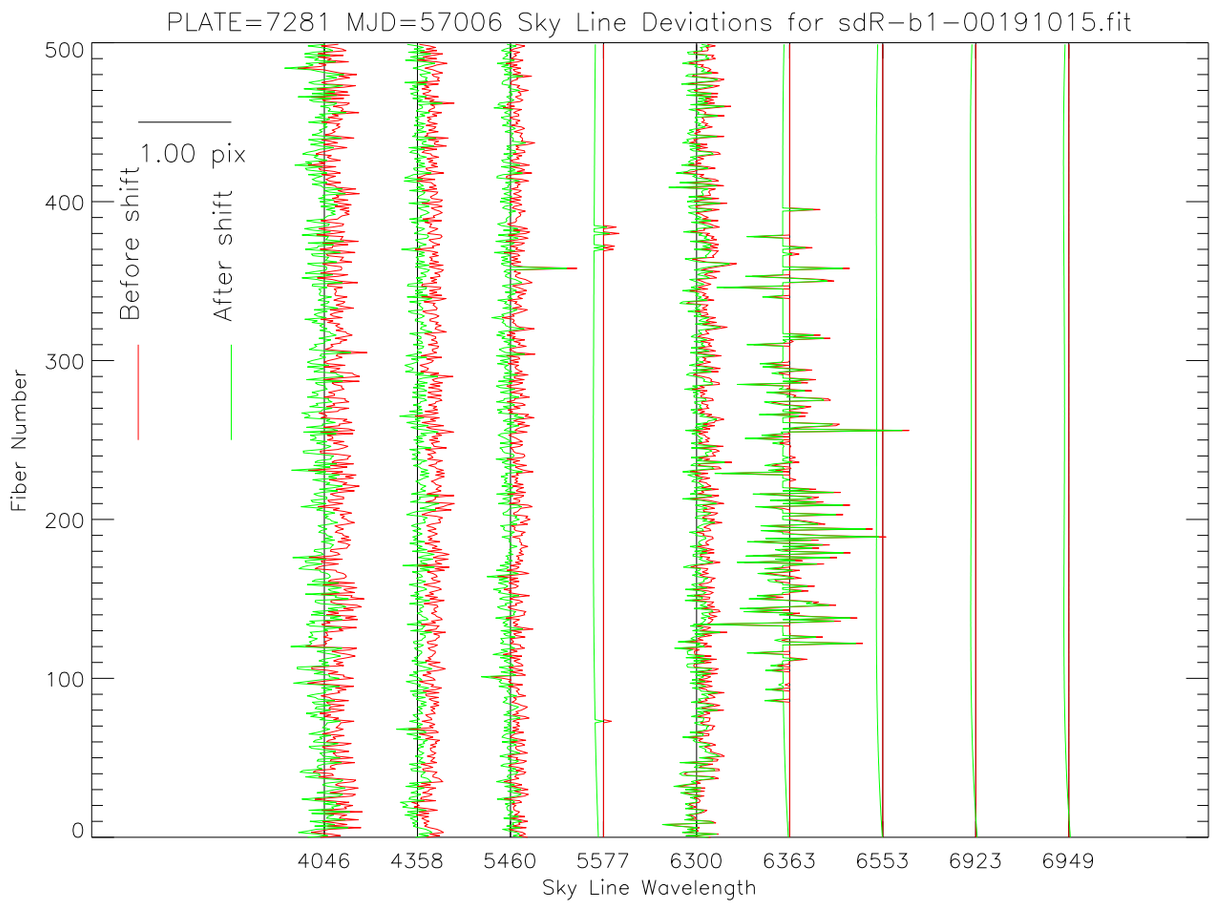


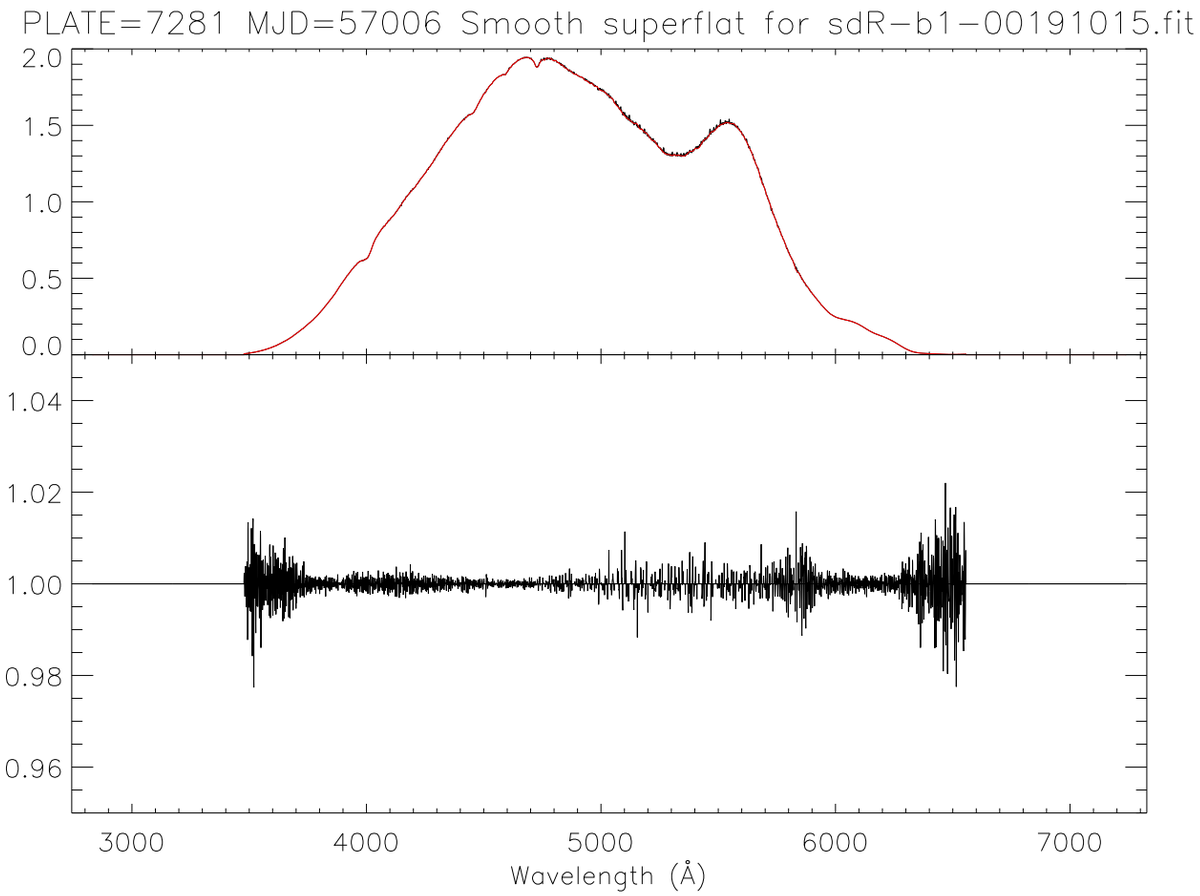

PLATE=7281 MJD=57006 sdR-b1-00191014.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 10.44 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

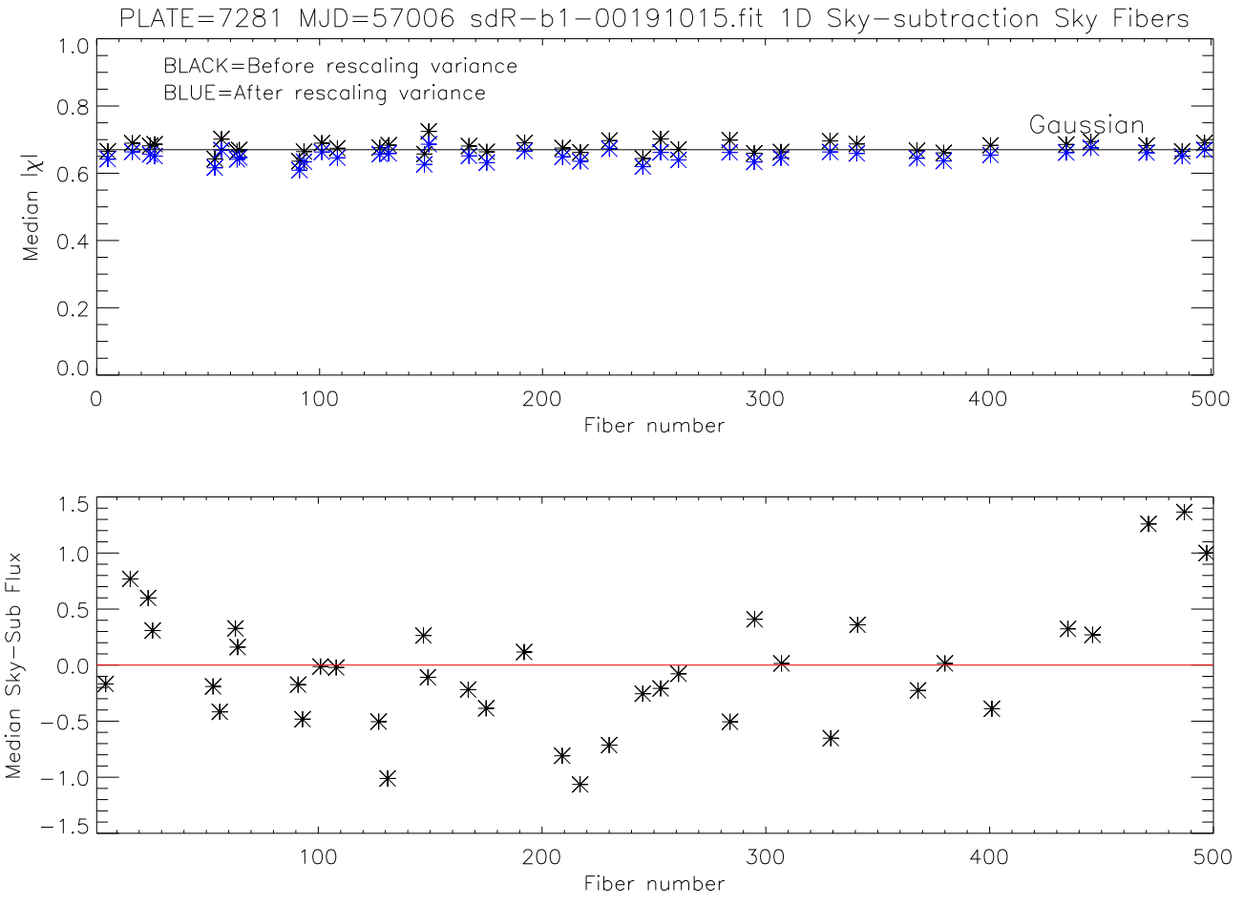

PLATE=7281 MJD=57006 sdR-b1-00191014.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 26.79 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

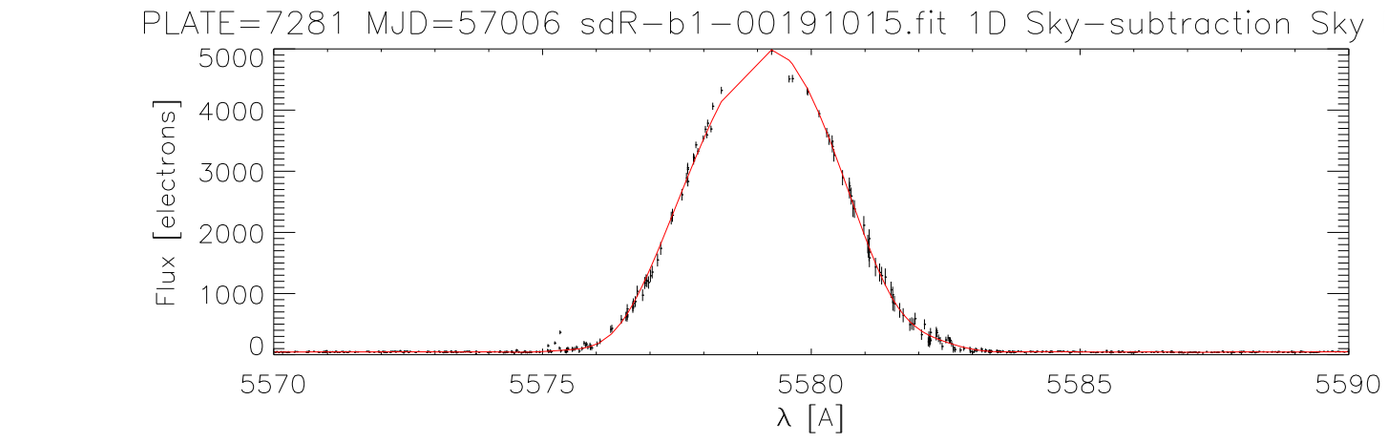

PLATE=7281 MJD=57006 Fiber−Flats for sdR−b1−00191013.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −35.728
Max value = 3.056
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sun May 29 03:15:07 2016

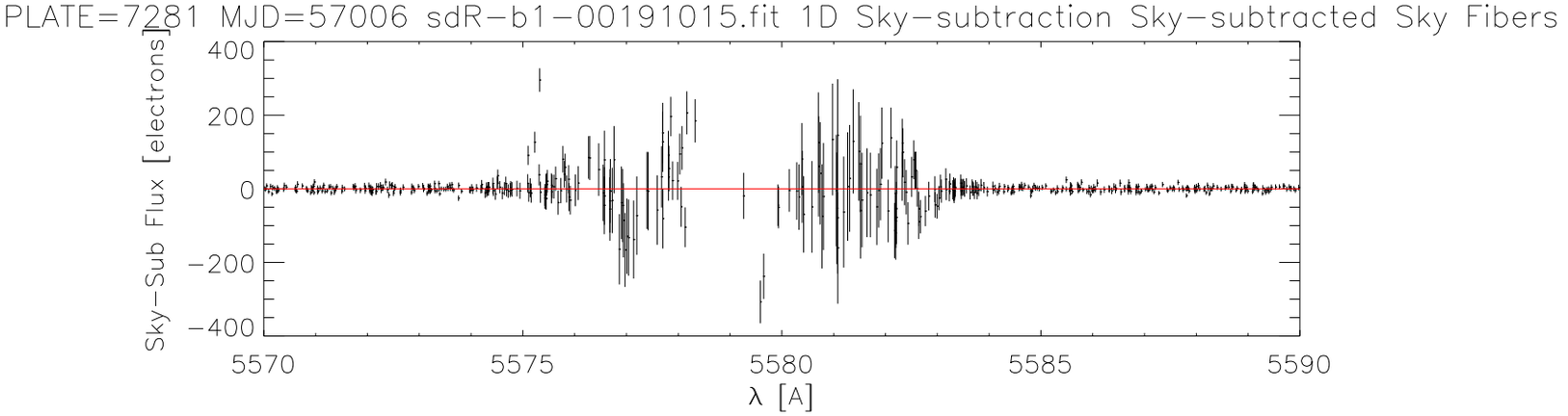

PLATE=7281 MJD=57006 Extraction chi^2 for sdR−b1−00191015.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=7281 MJD=57006 Sky Line Deviations for sdR-b1-00191015.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

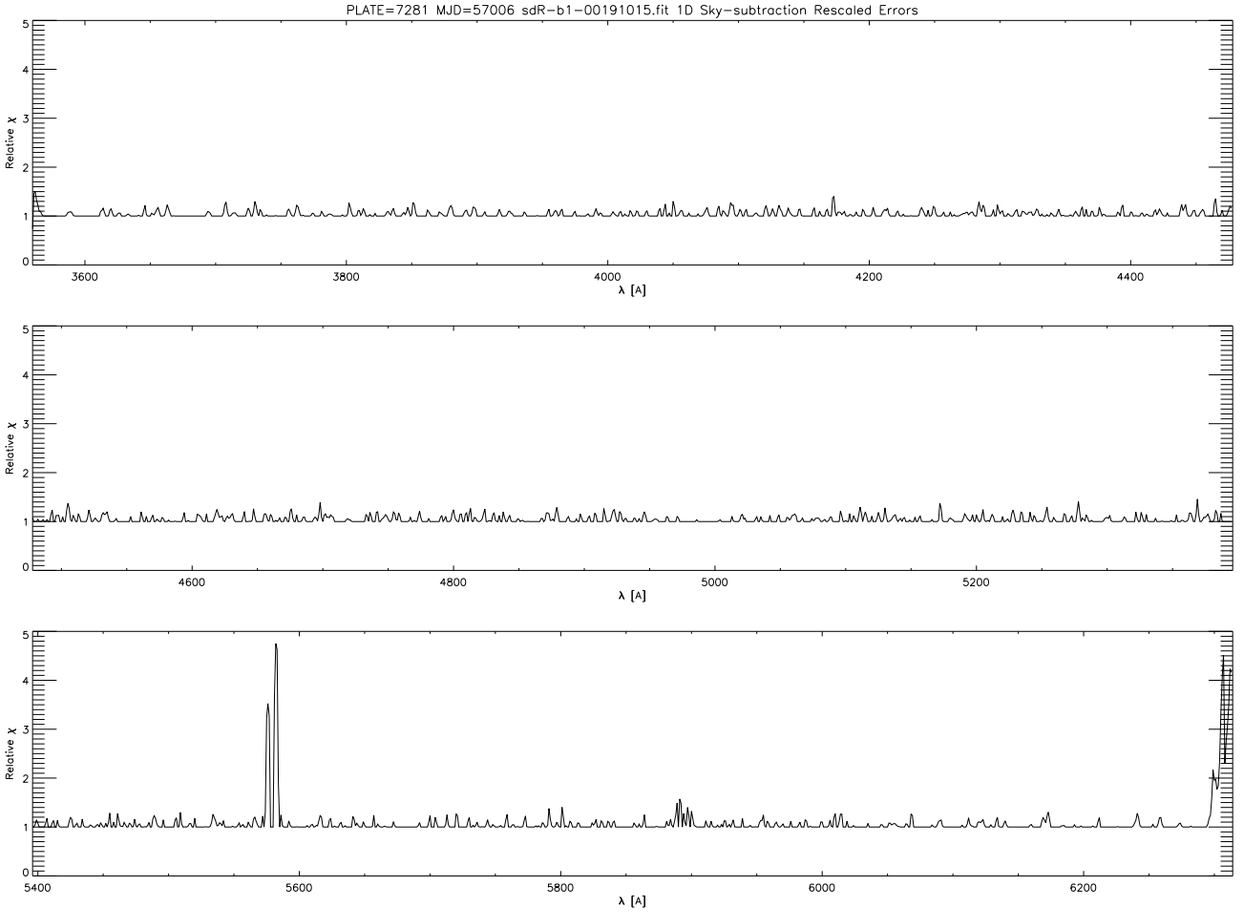

PLATE=7281 MJD=57006 Smooth superflat for sdR-b1-00191015.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

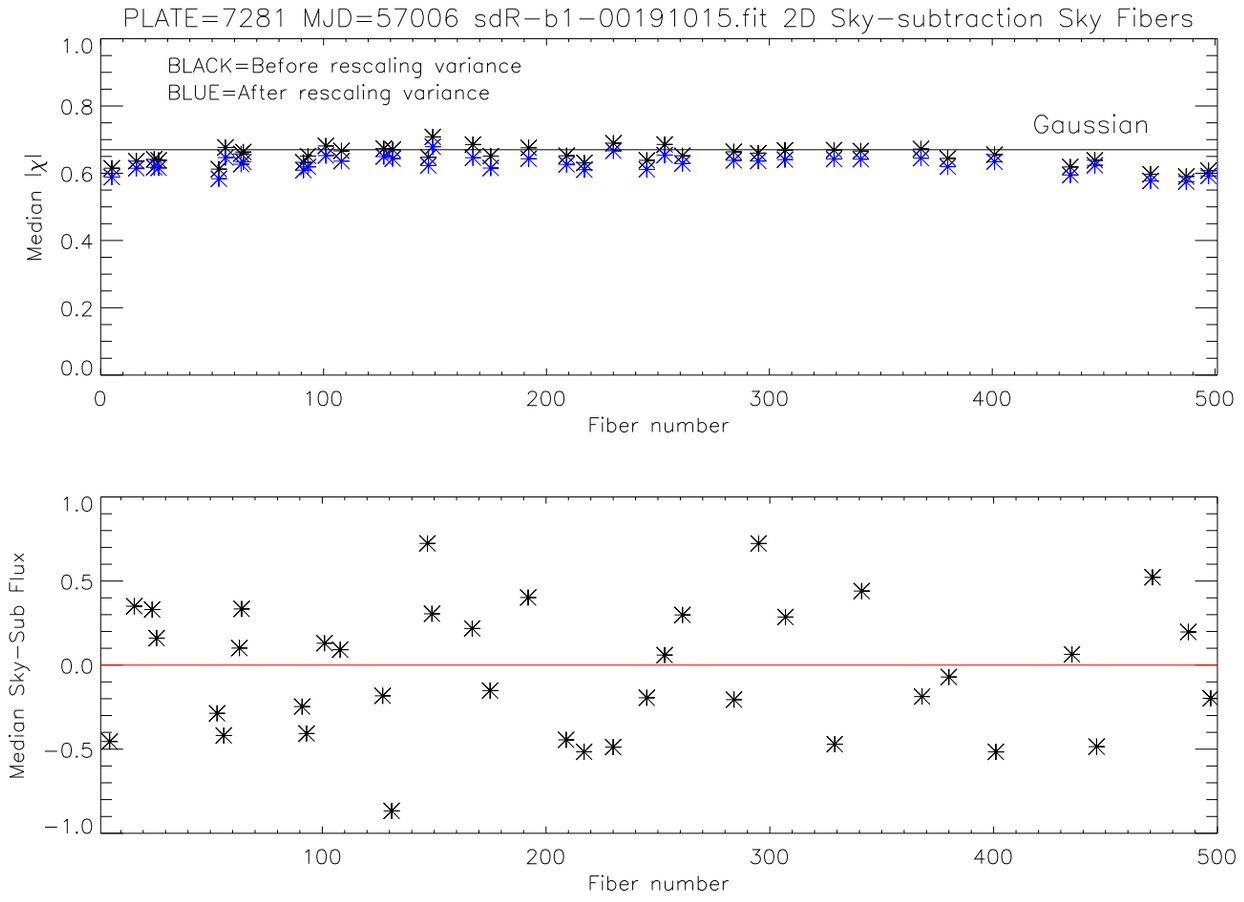

PLATE=7281 MJD=57006 sdR-b1-00191015.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

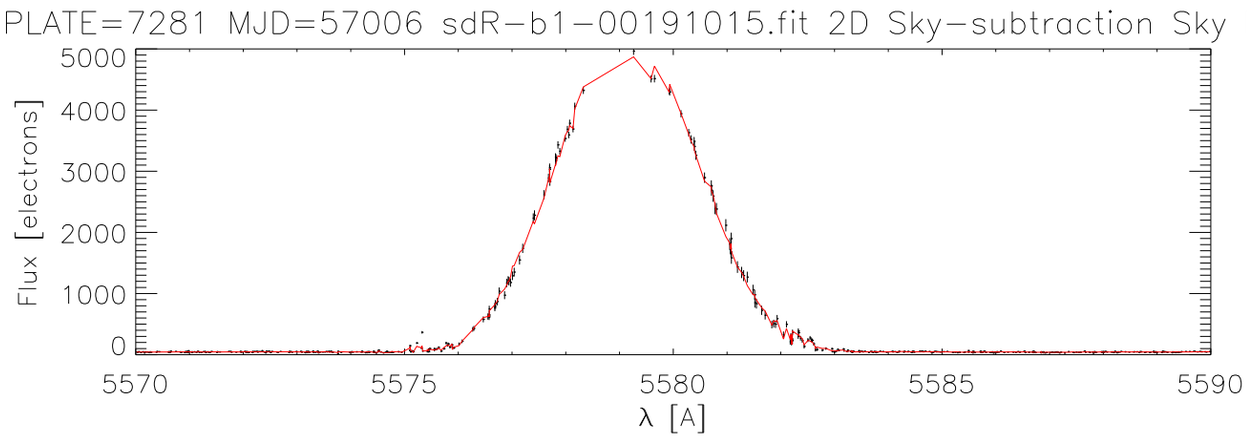

PLATE=7281 MJD=57006 sdR-b1-00191015.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

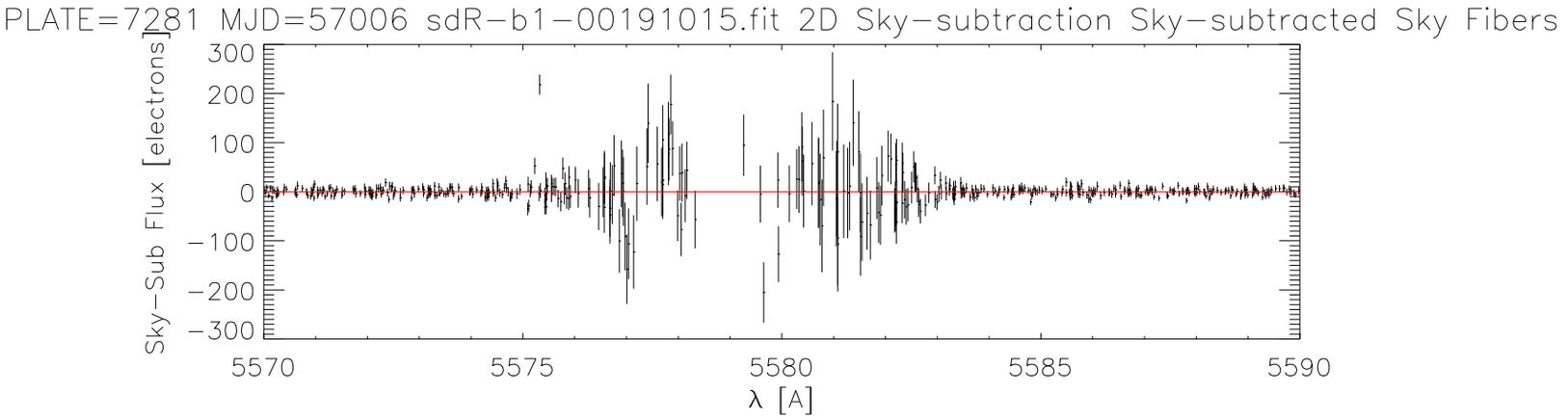

PLATE=7281 MJD=57006 sdR-b1-00191015.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 38

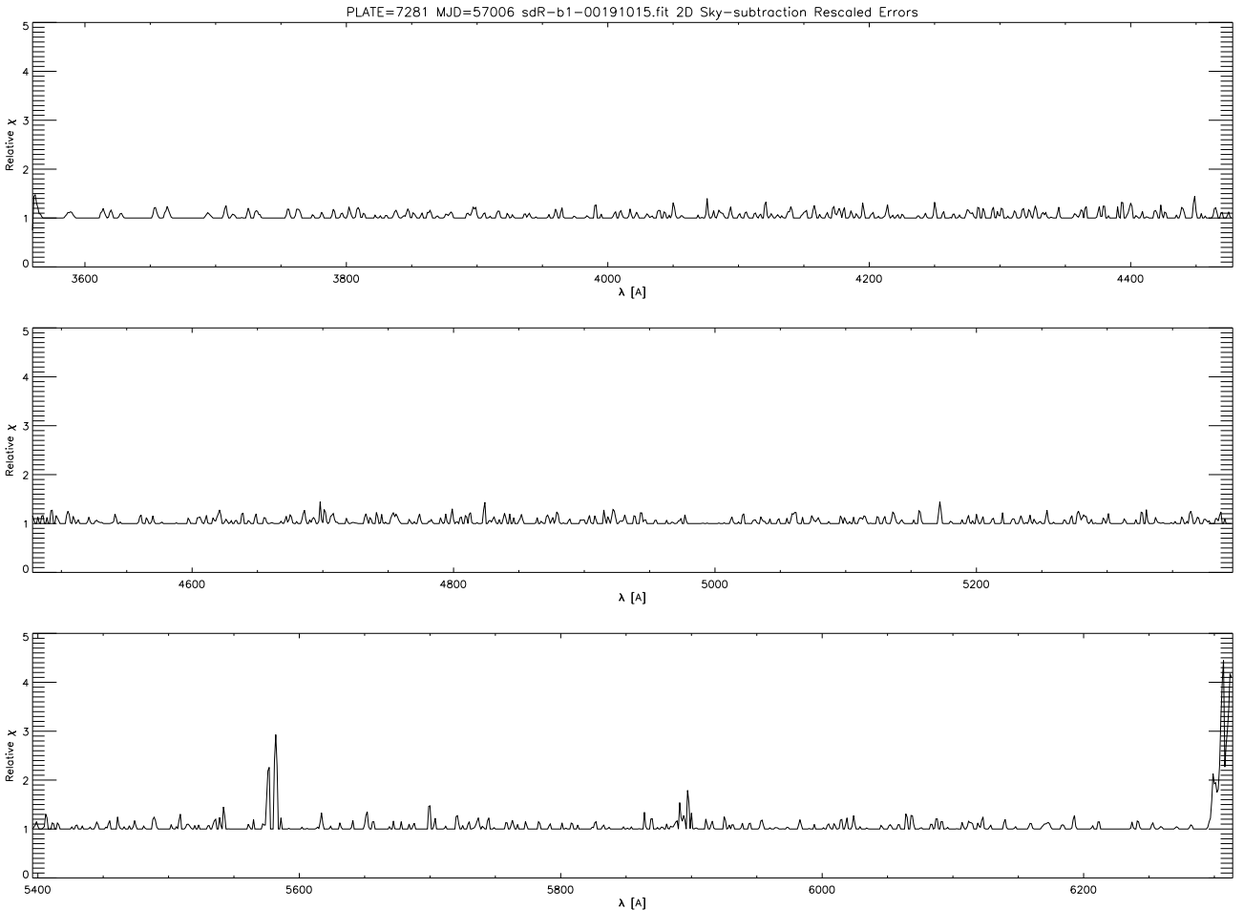


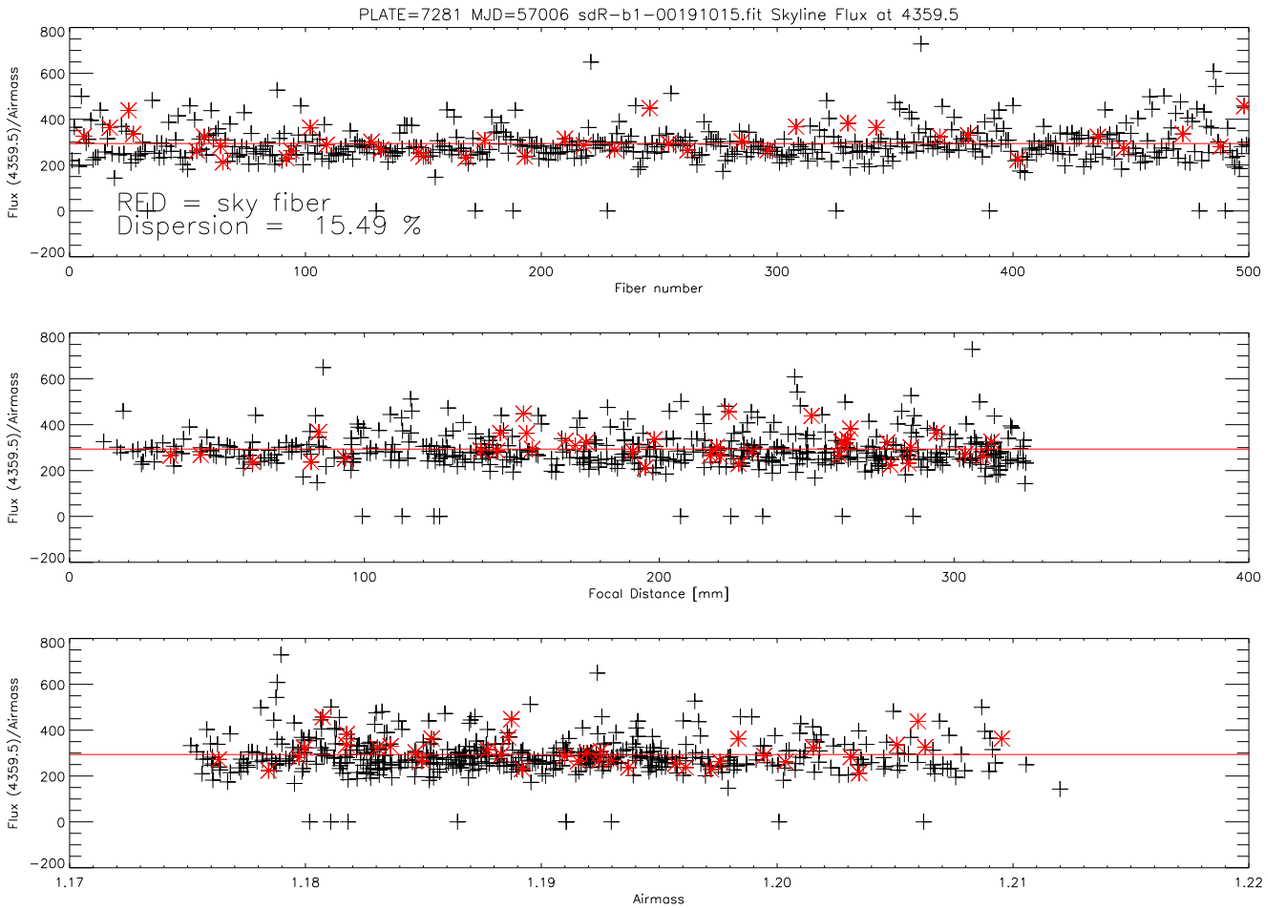

PLATE=7281 MJD=57006 sdR-b1-00191015.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

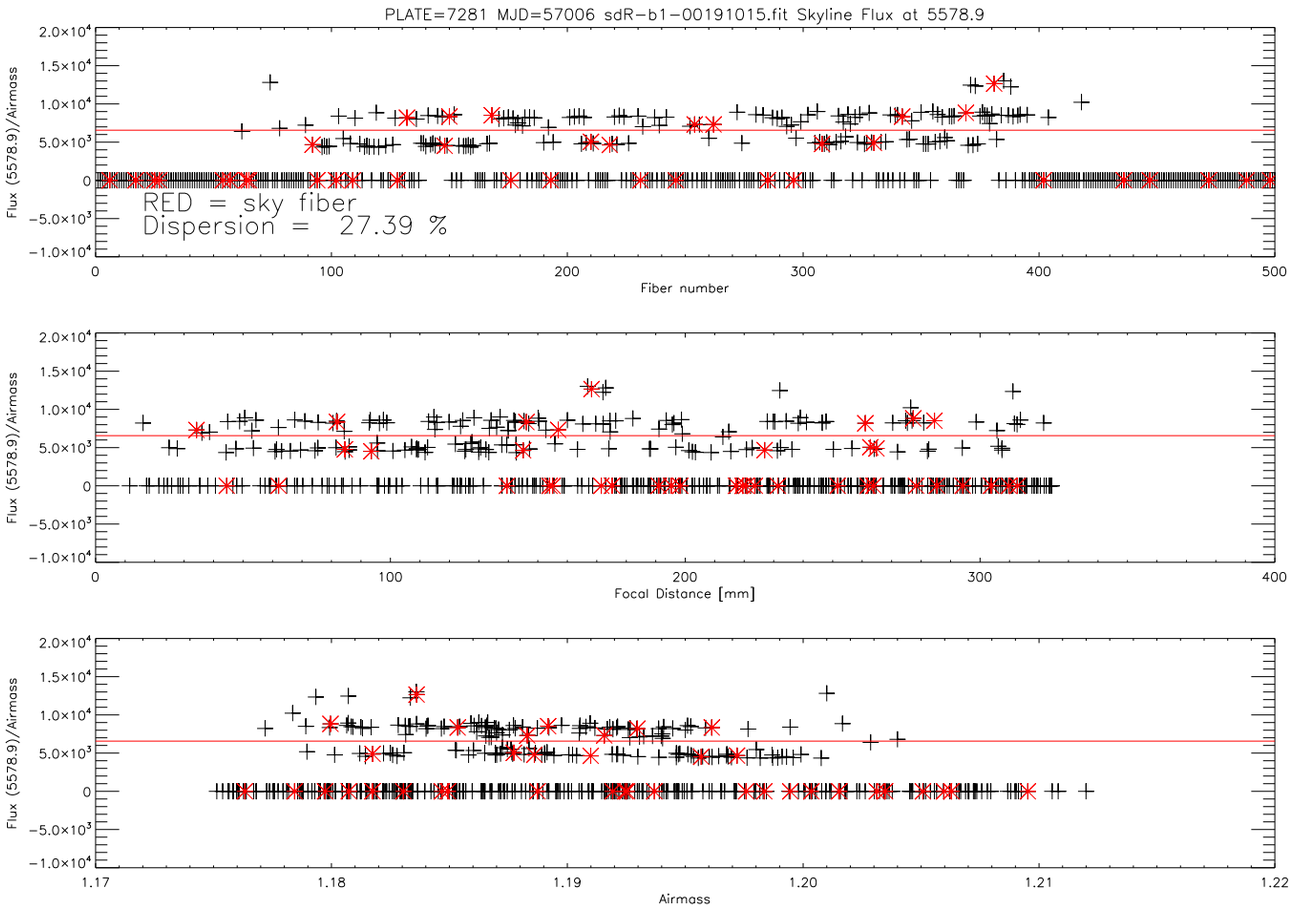

PLATE=7281 MJD=57006 sdR-b1-00191015.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

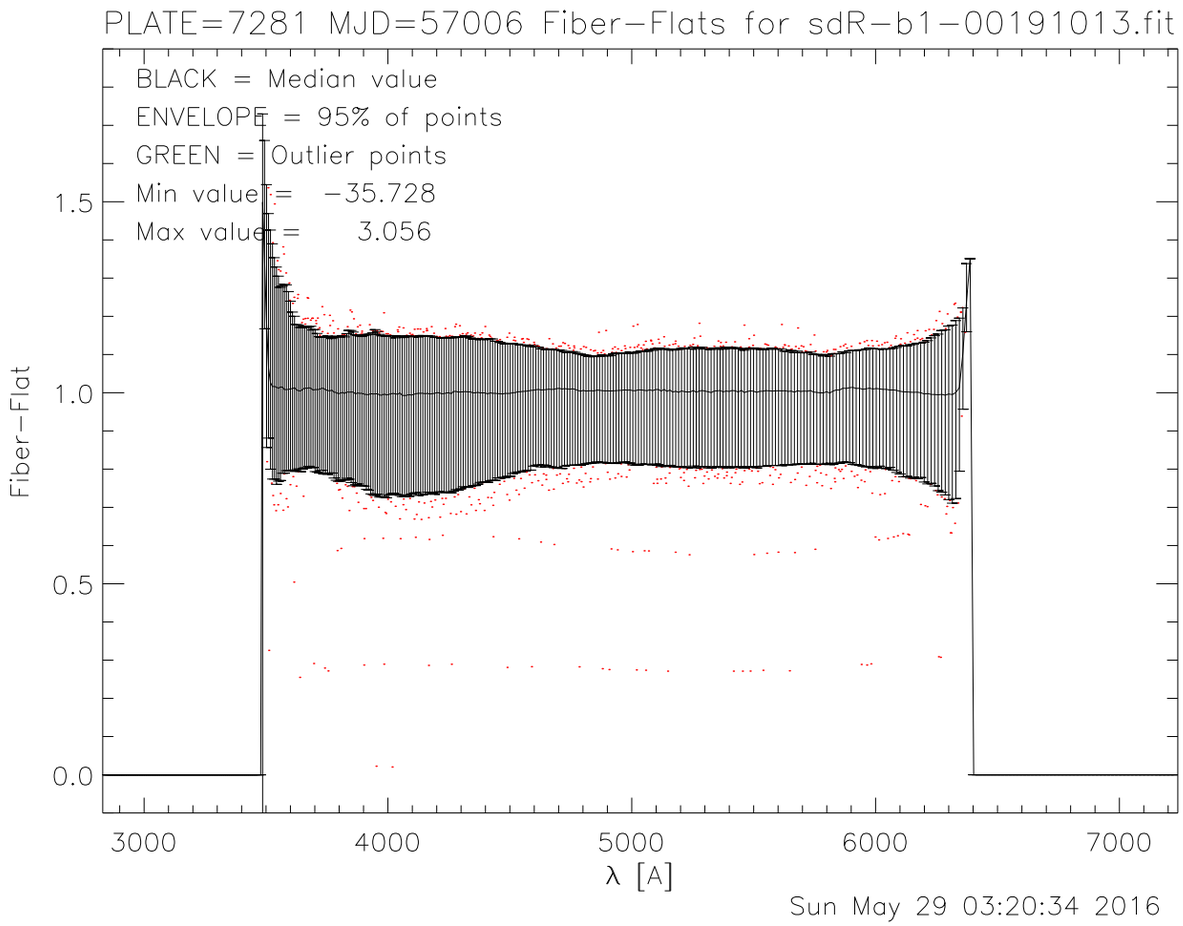

PLATE=7281 MJD=57006 sdR-b1-00191015.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

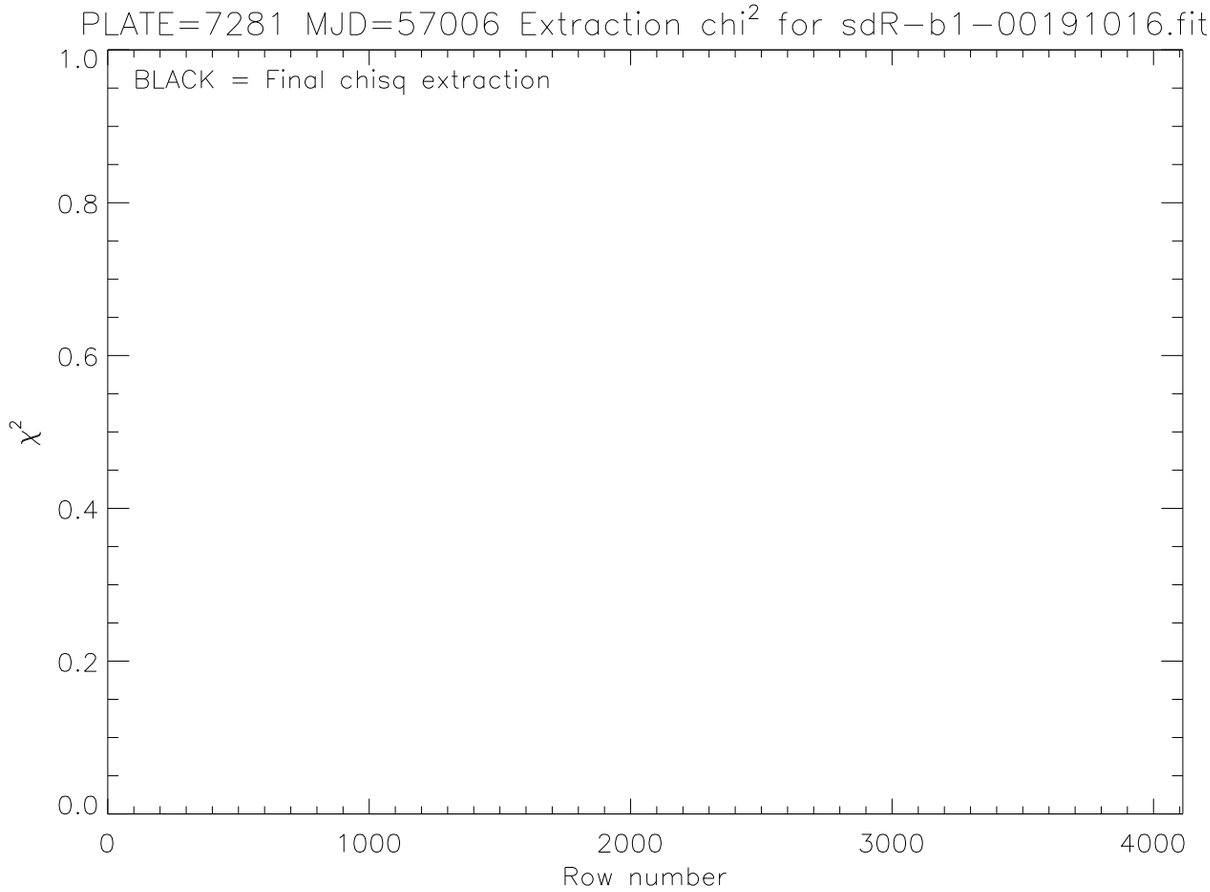
Number of sky fibers = 38

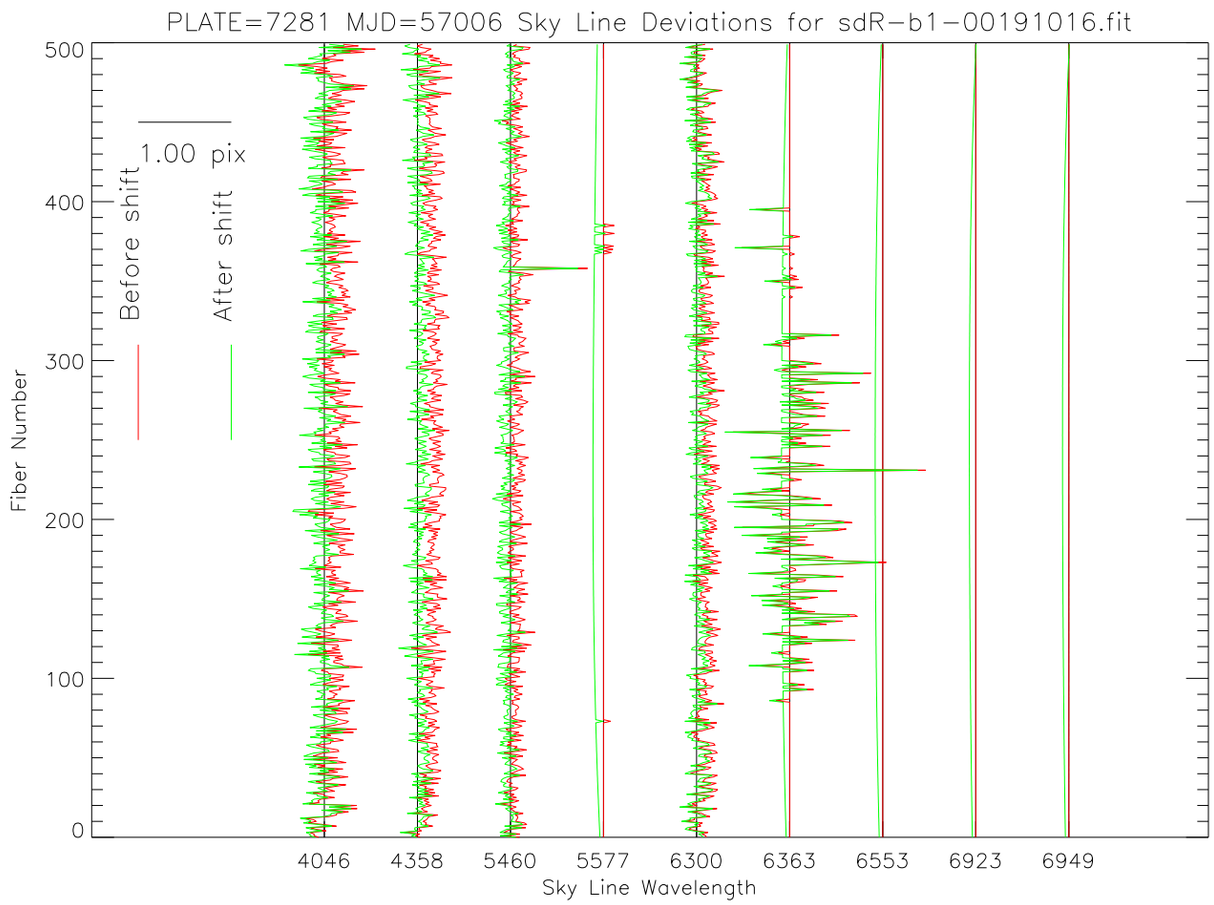


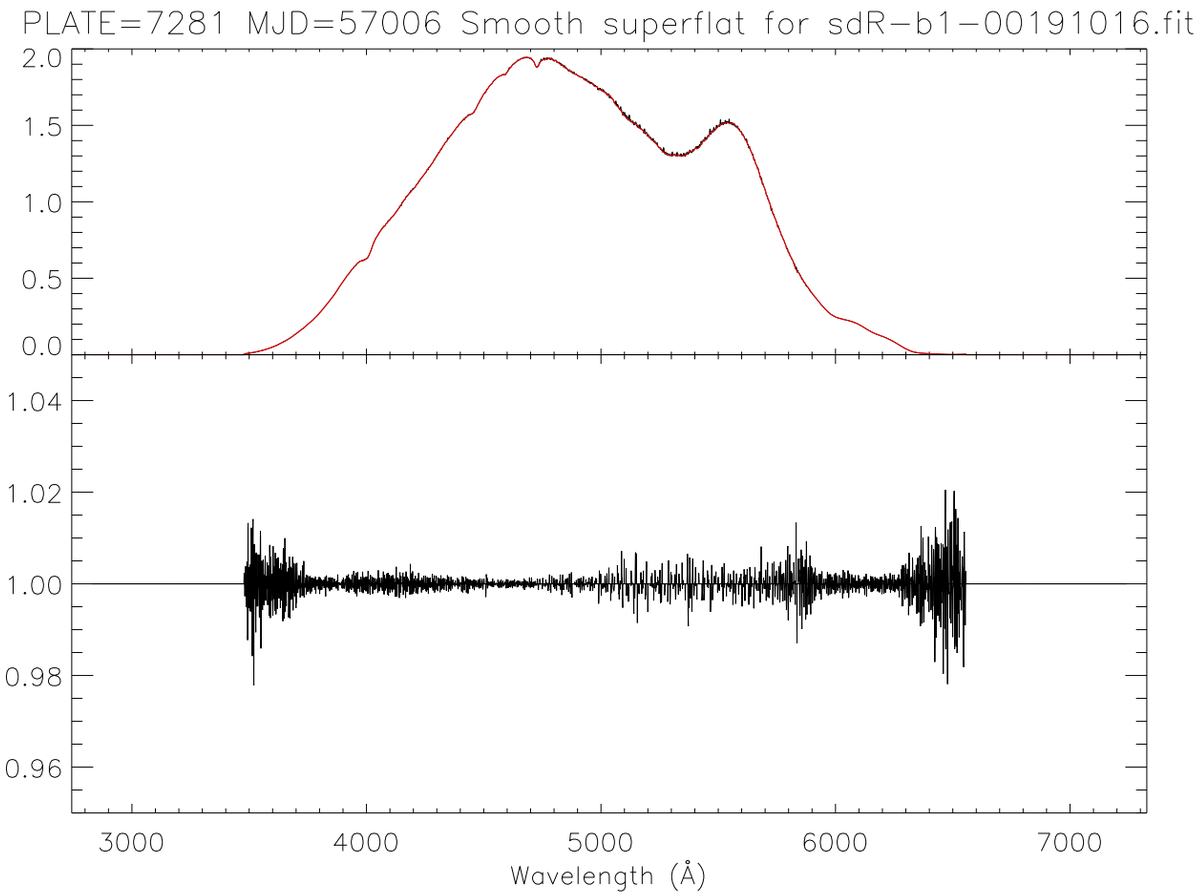

PLATE=7281 MJD=57006 sdR-b1-00191015.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 15.49 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

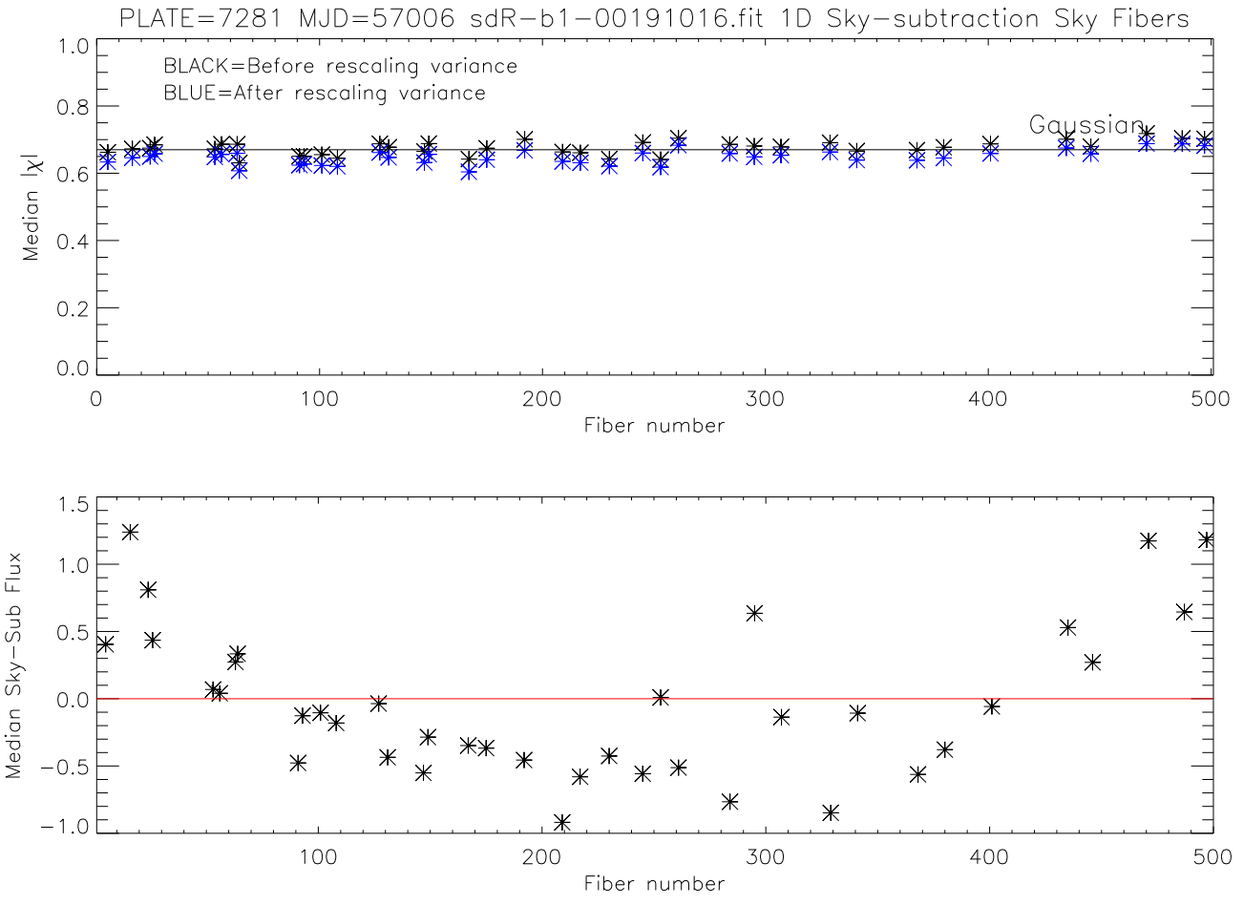

PLATE=7281 MJD=57006 sdR-b1-00191015.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 27.39 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

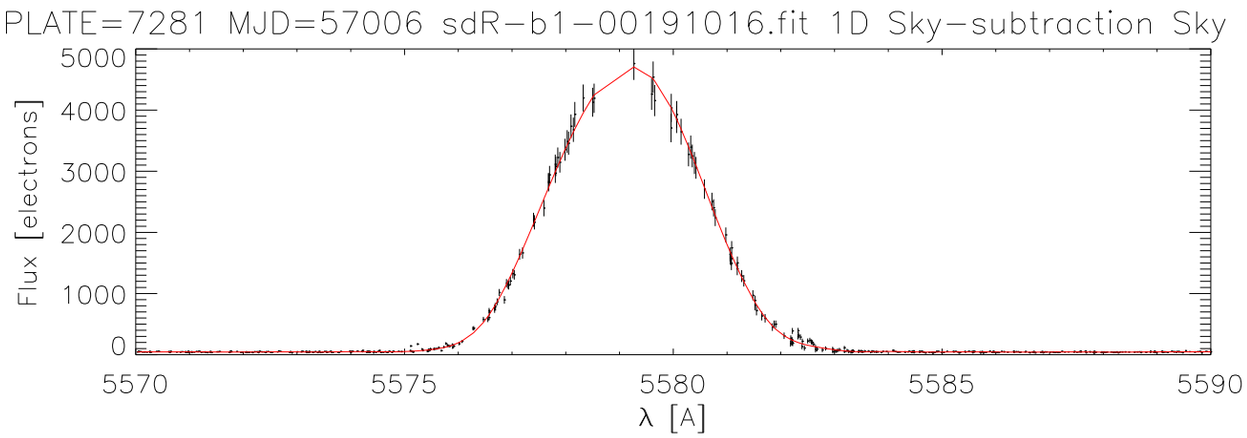

PLATE=7281 MJD=57006 Fiber−Flats for sdR−b1−00191013.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −35.728
Max value = 3.056
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sun May 29 03:20:34 2016

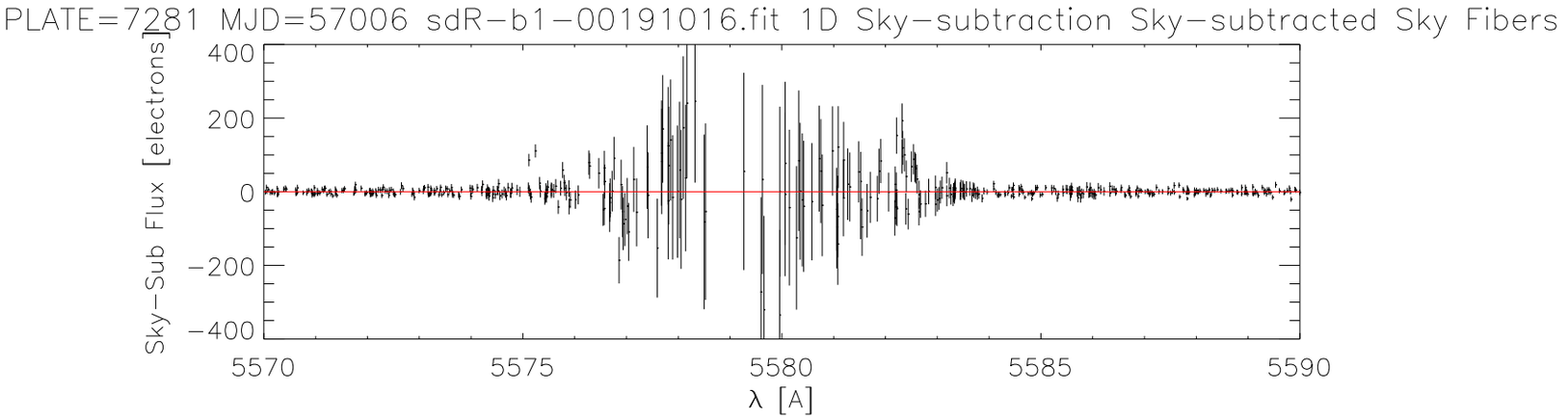

PLATE=7281 MJD=57006 Extraction chi^2 for sdR-b1-00191016.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=7281 MJD=57006 Sky Line Deviations for sdR-b1-00191016.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

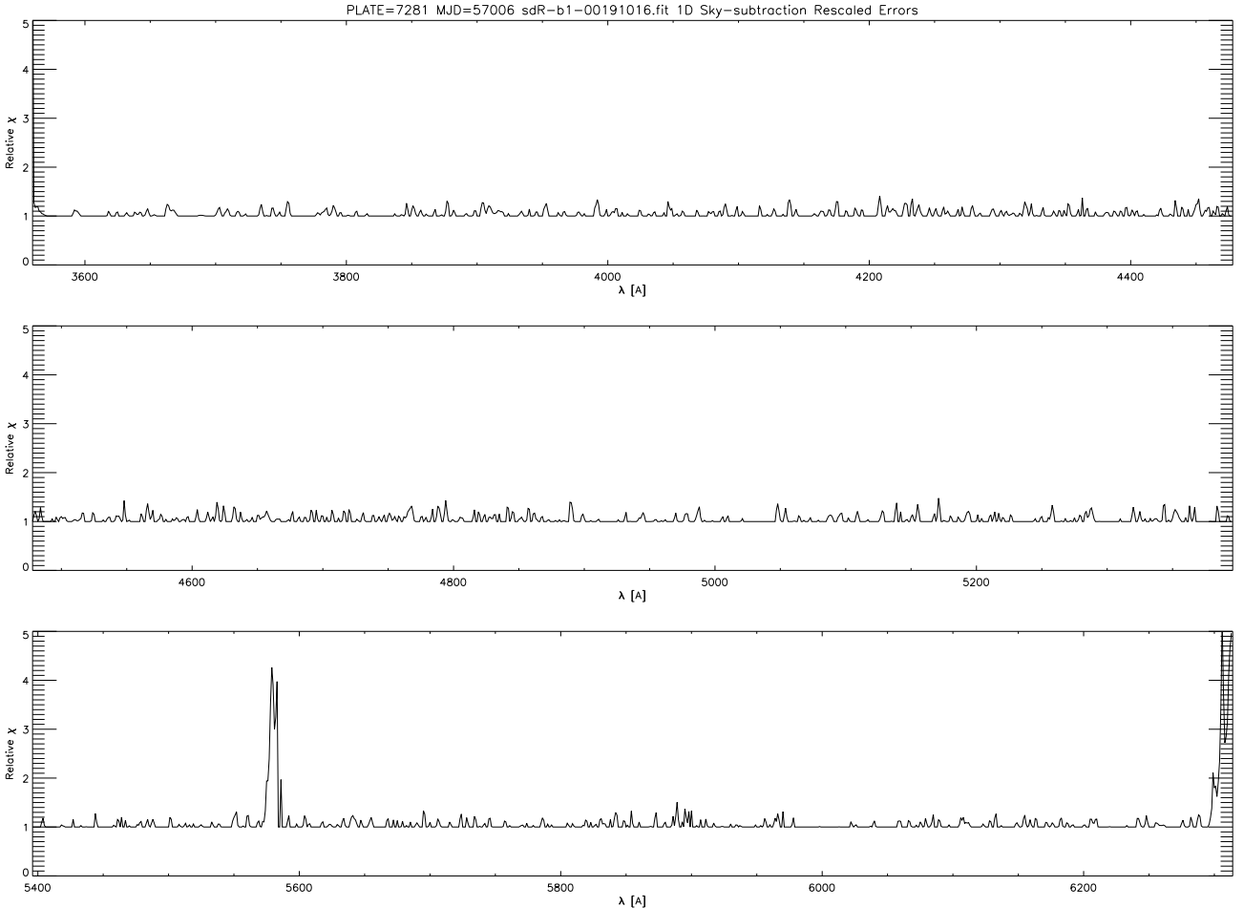

PLATE=7281 MJD=57006 Smooth superflat for sdR-b1-00191016.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

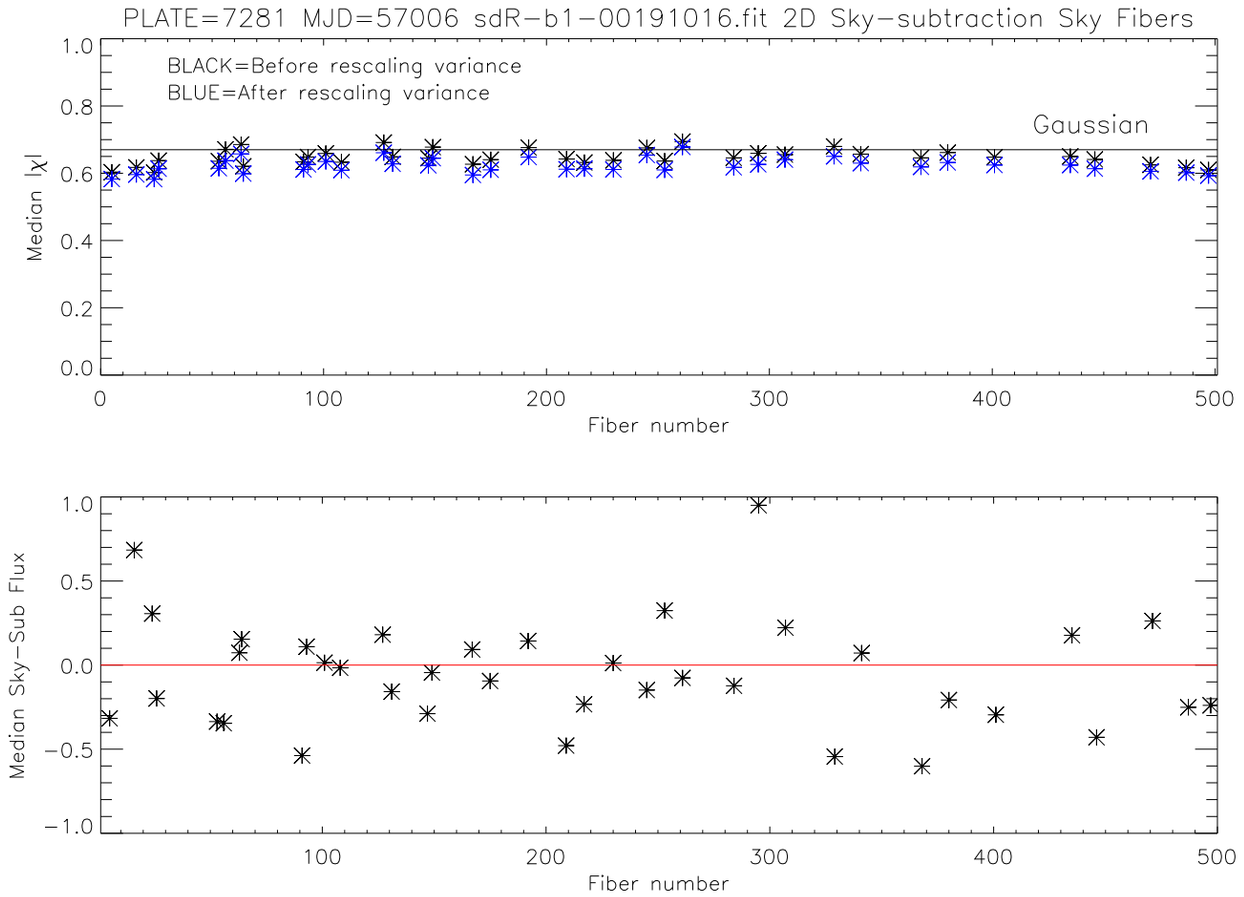

PLATE=7281 MJD=57006 sdR-b1-00191016.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

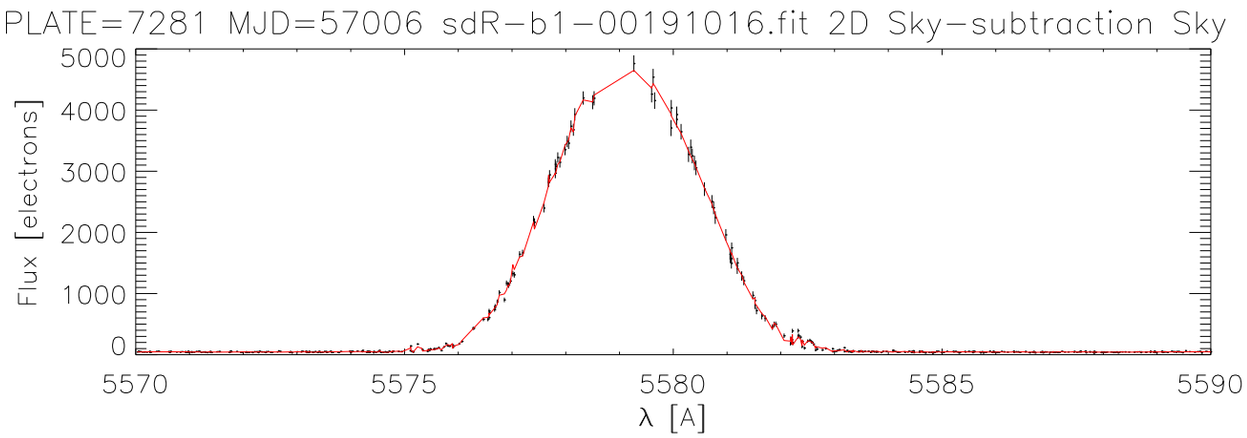

PLATE=7281 MJD=57006 sdR-b1-00191016.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

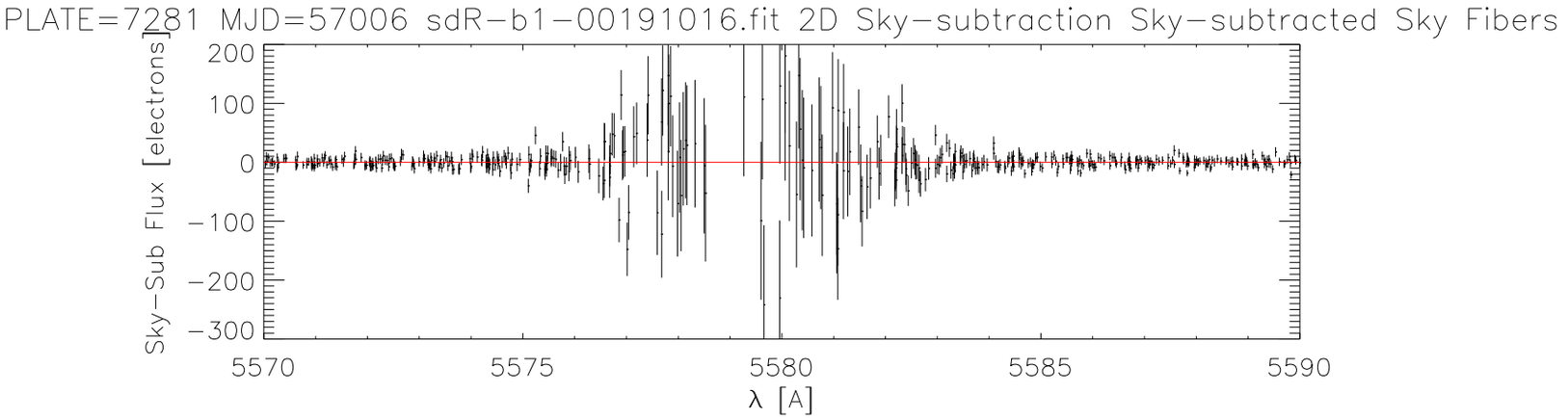

PLATE=7281 MJD=57006 sdR-b1-00191016.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 38

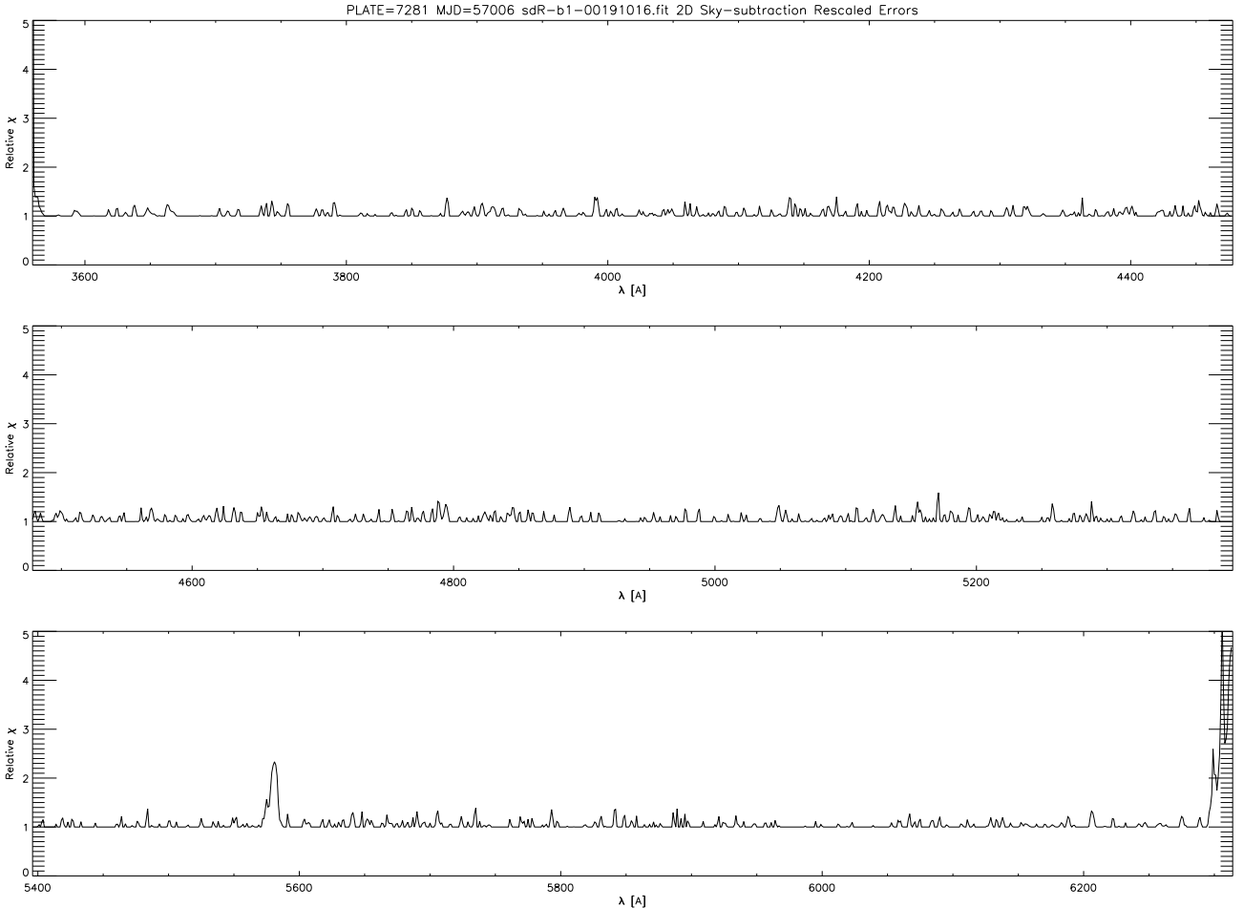


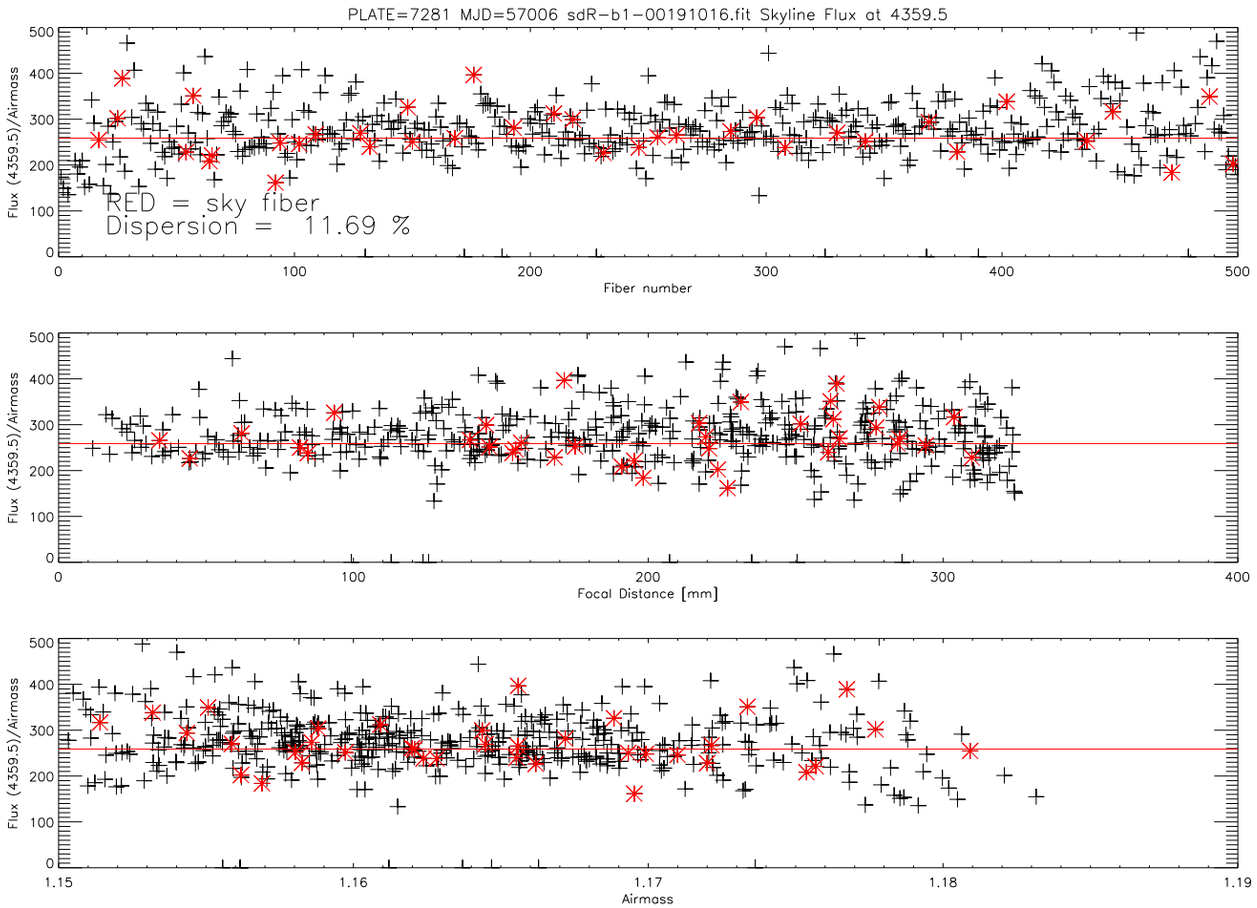

PLATE=7281 MJD=57006 sdR-b1-00191016.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

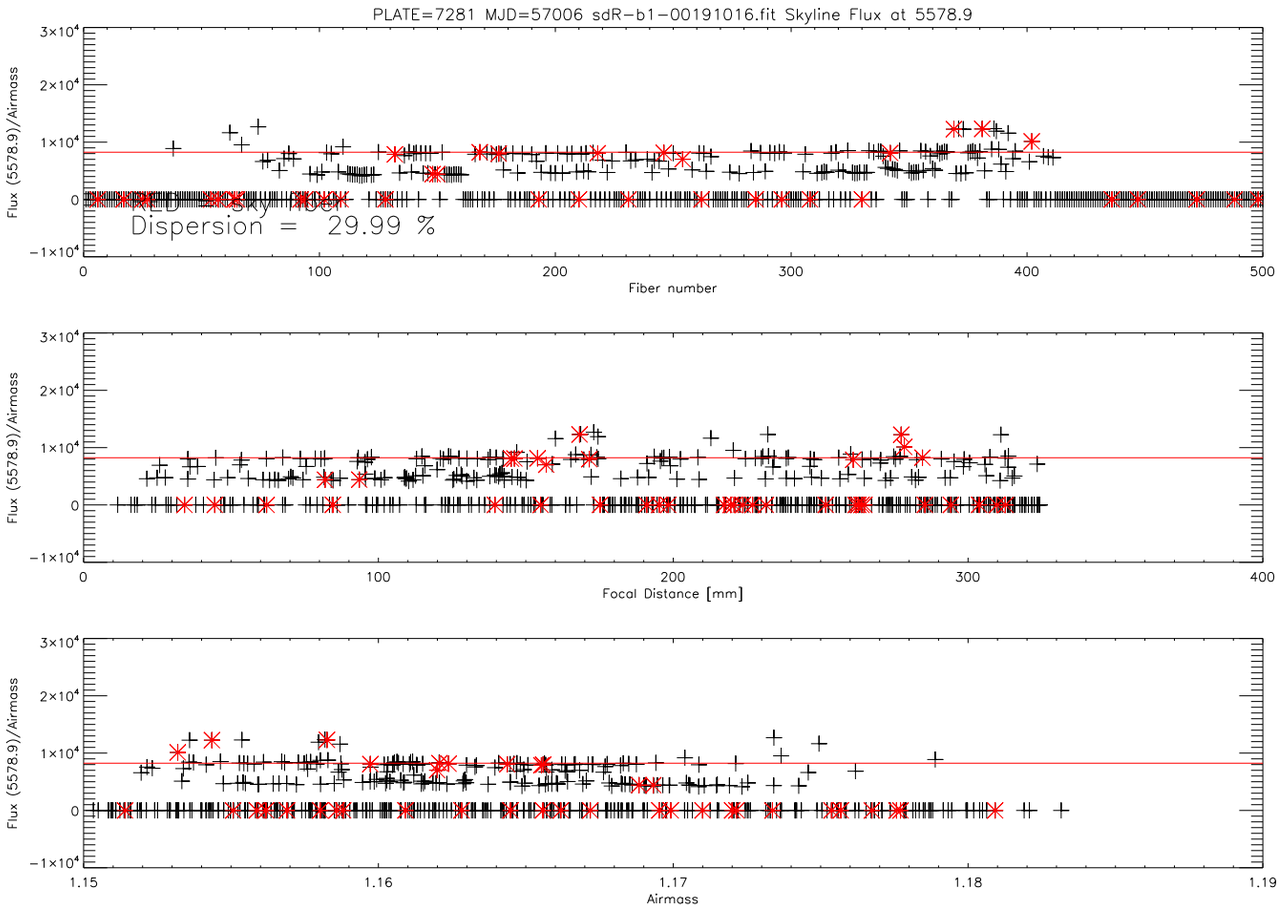

PLATE=7281 MJD=57006 sdR-b1-00191016.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]


PLATE=7281 MJD=57006 sdR-b1-00191016.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

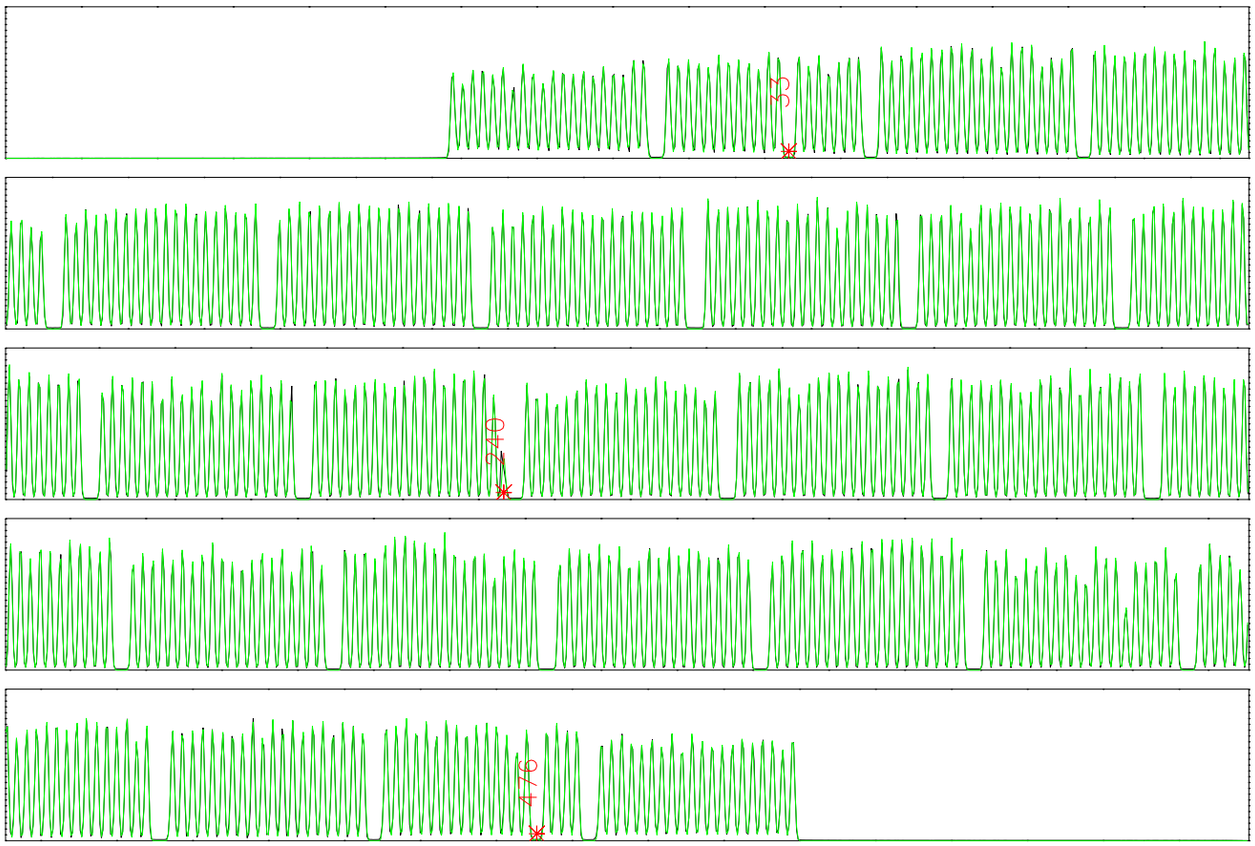
Number of sky fibers = 38

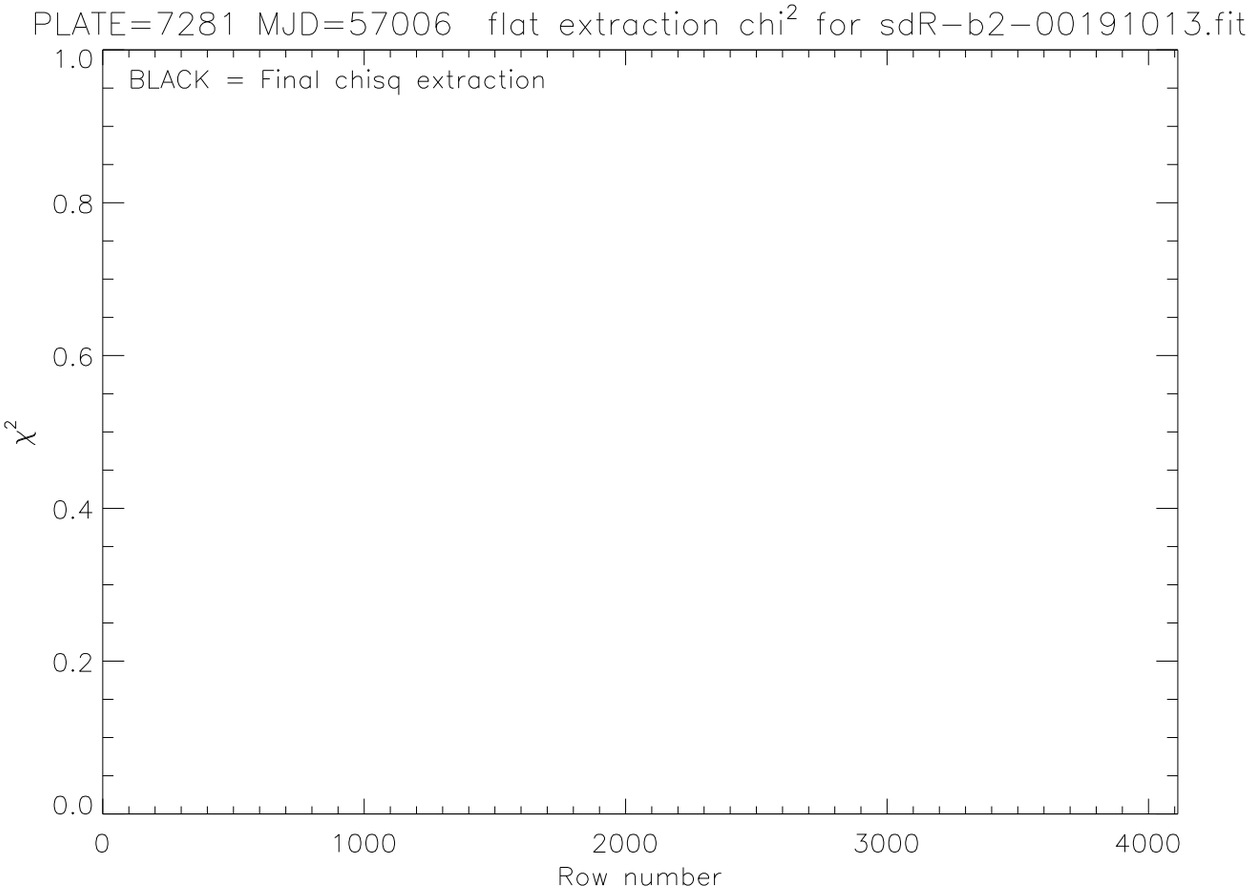


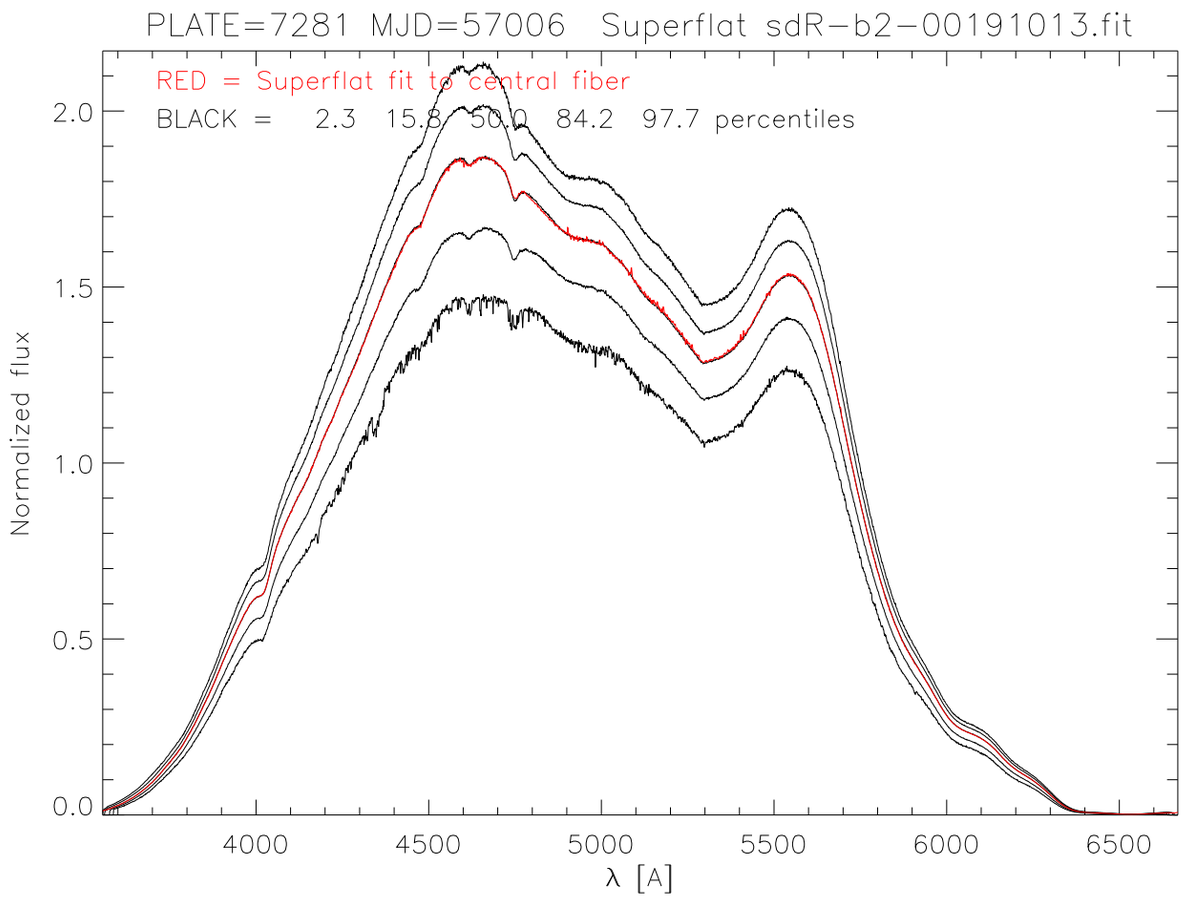

PLATE=7281 MJD=57006 sdR-b1-00191016.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 11.69 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

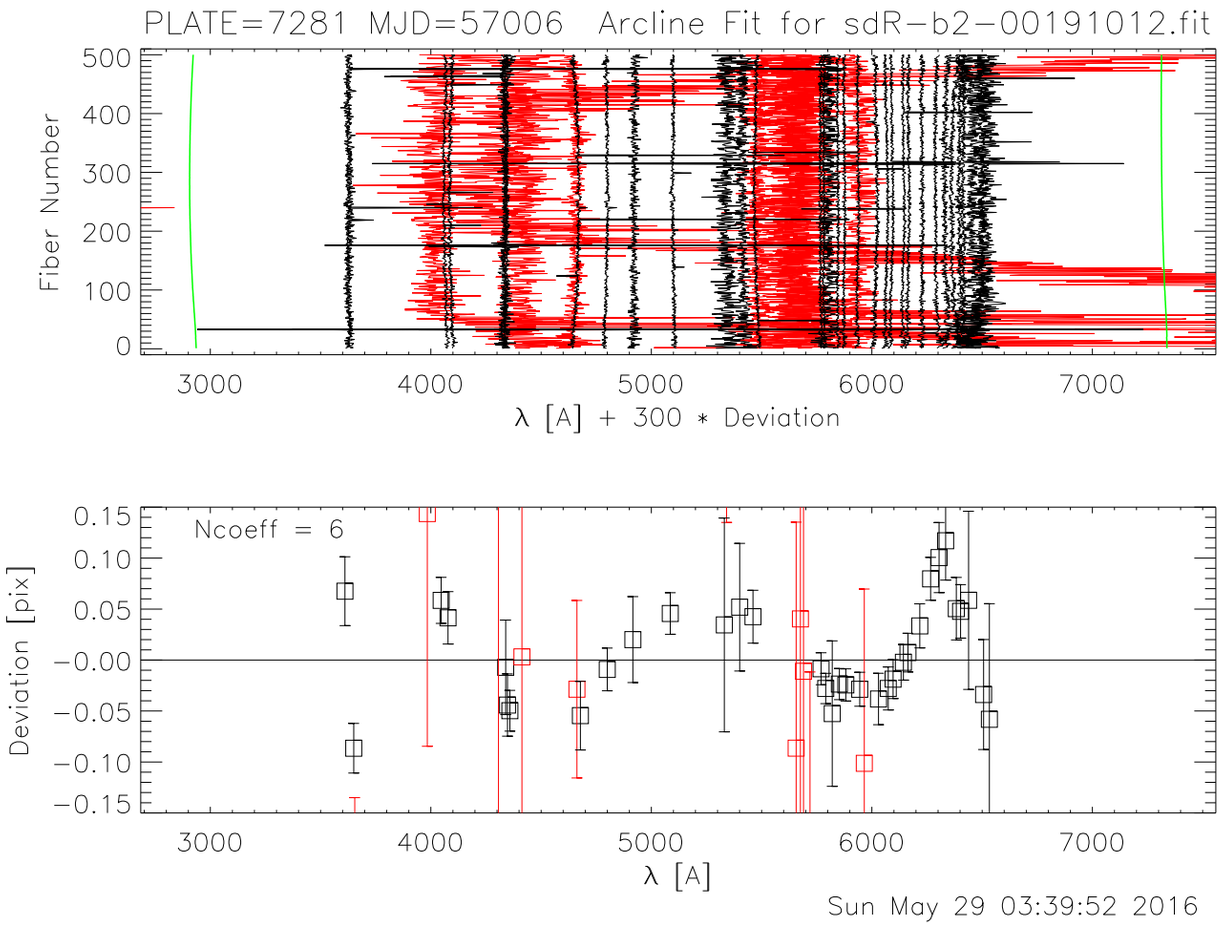

PLATE=7281 MJD=57006 sdR-b1-00191016.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
Red sky fiber
Dispersion = 29.99 %
Focal Distance [mm]
Airmass

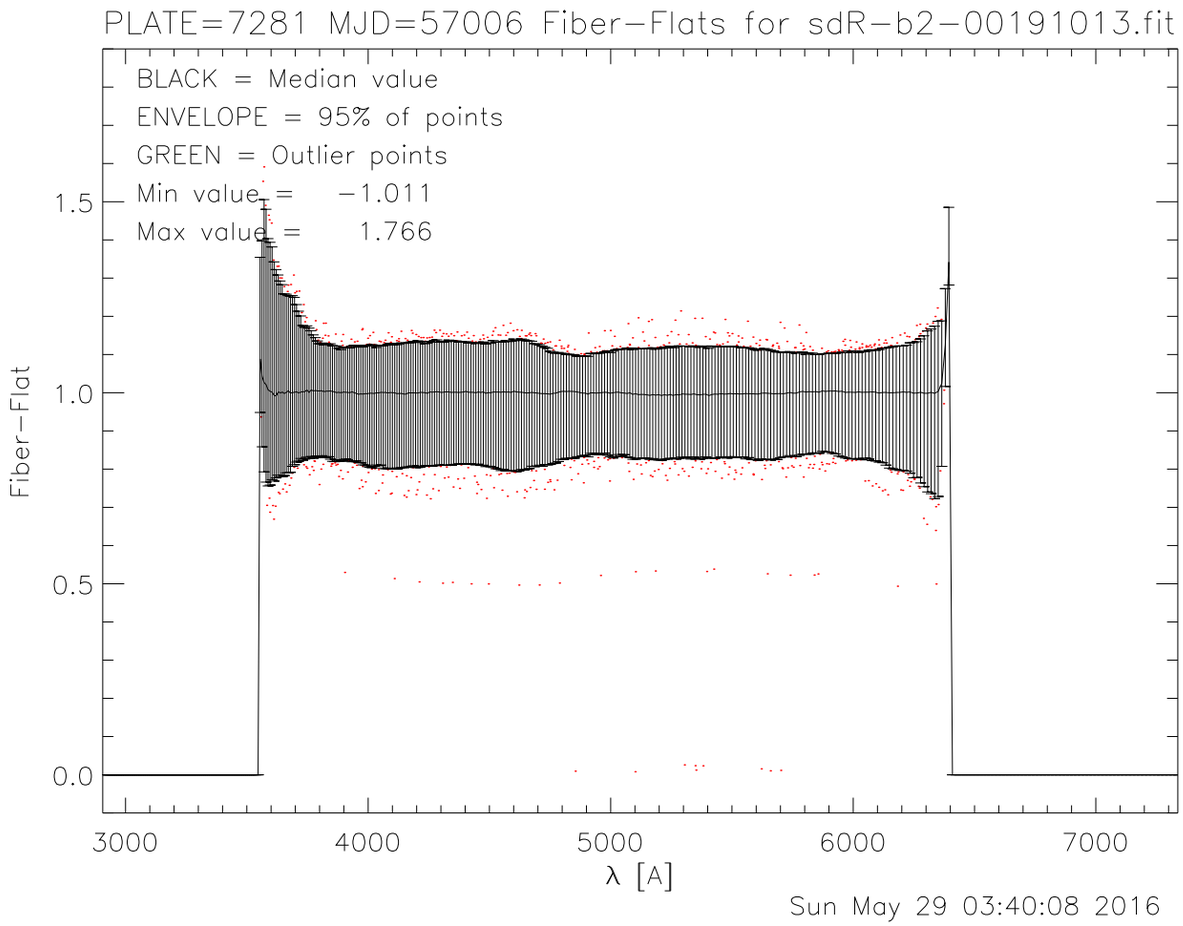
PLATE=7281 MJD=57006 Traces sdR-b2-00191013.fit

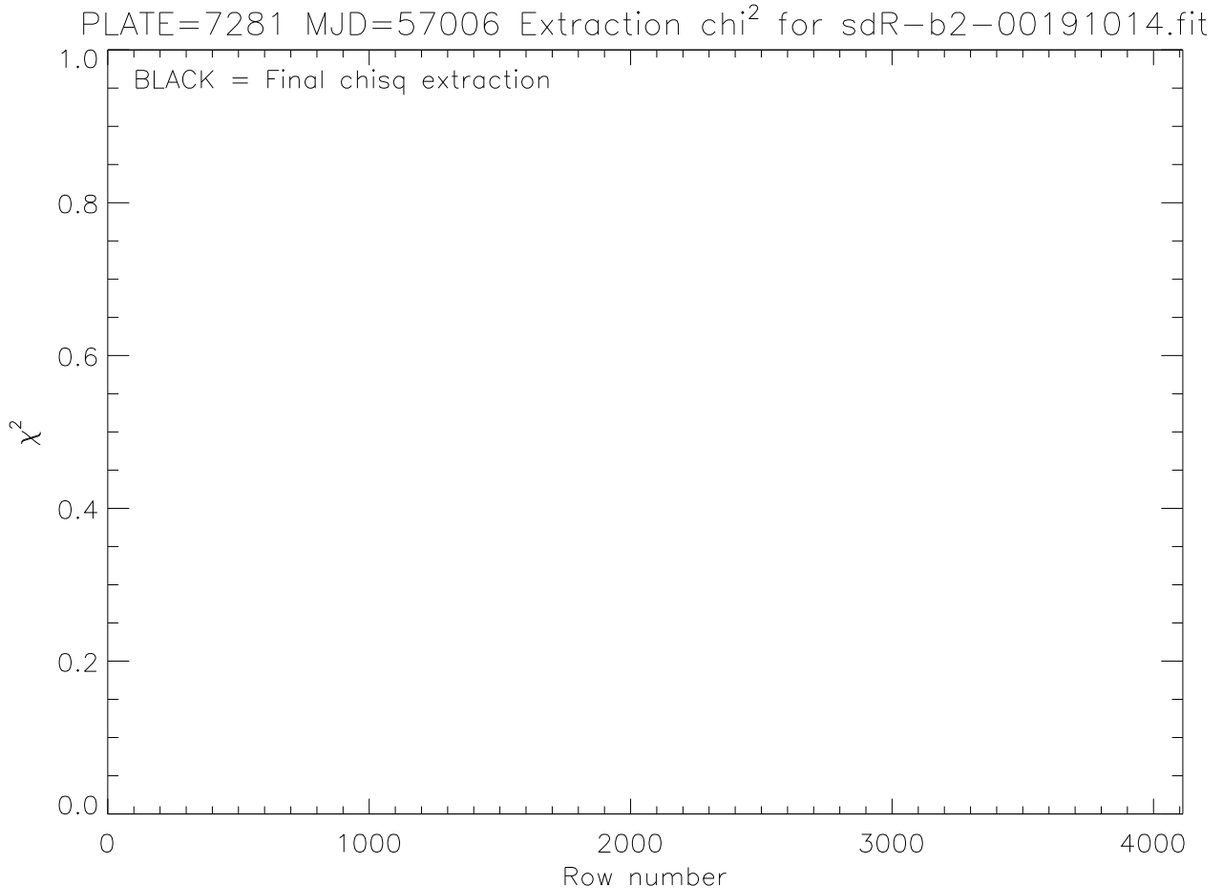


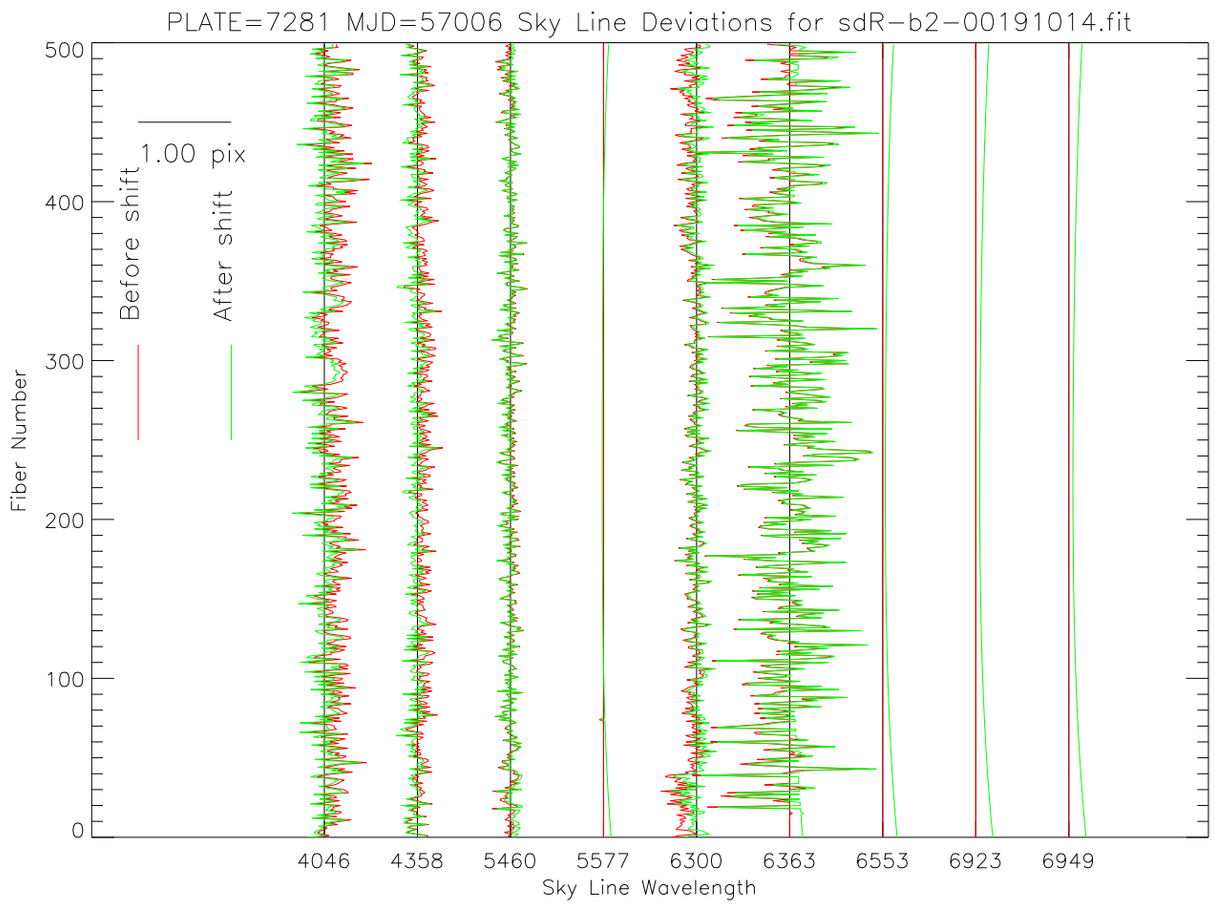

PLATE=7281 MJD=57006 flat extraction chi^2 for sdR-b2-00191013.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number

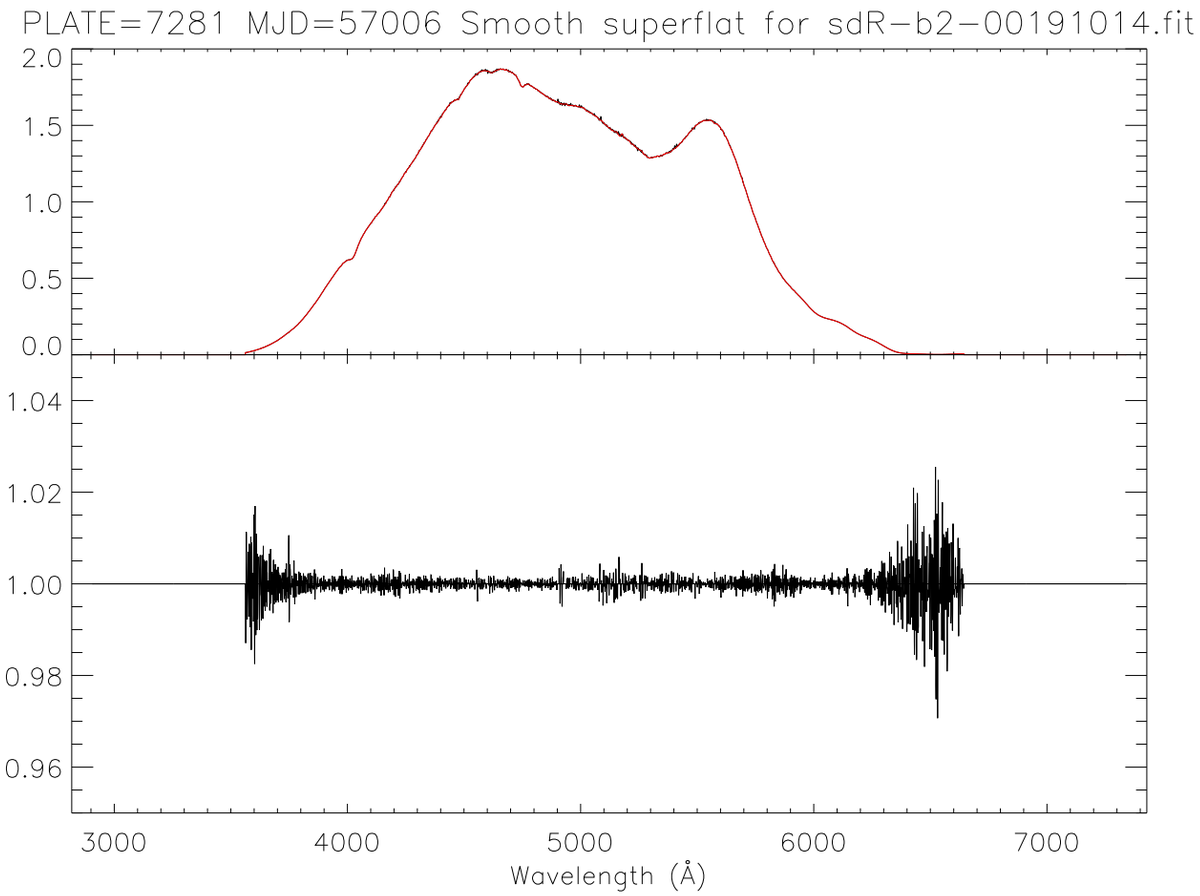

PLATE=7281 MJD=57006 Superflat sdR-b2-00191013.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
4000
4500
5000
5500
6000
6500

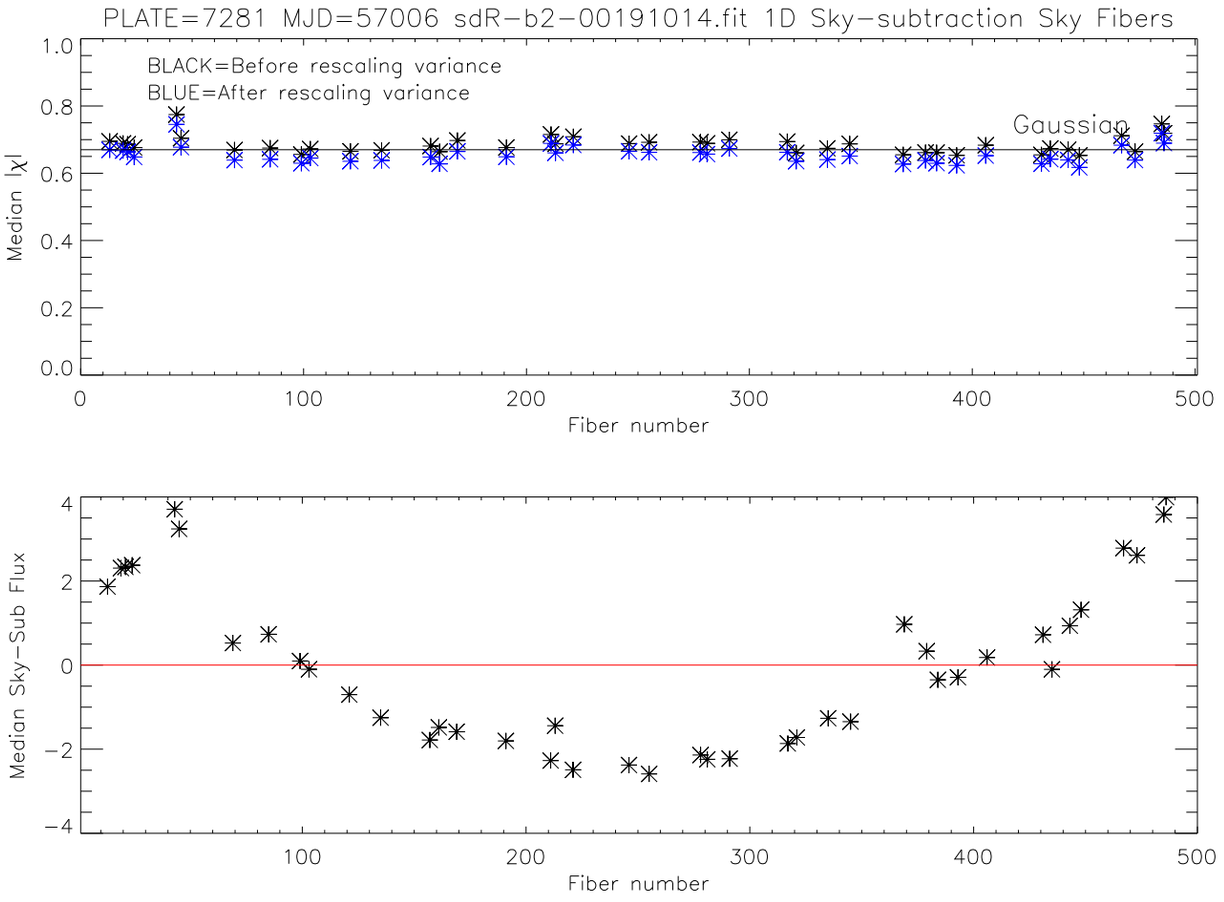

PLATE=7281 MJD=57006 Arcline Fit for sdR-b2-00191012.fit
Fiber Number
λ [A] + 300 * Deviation
Ncoeff = 6
Deviation [pix]
λ [A]
Sun May 29 03:39:52 2016

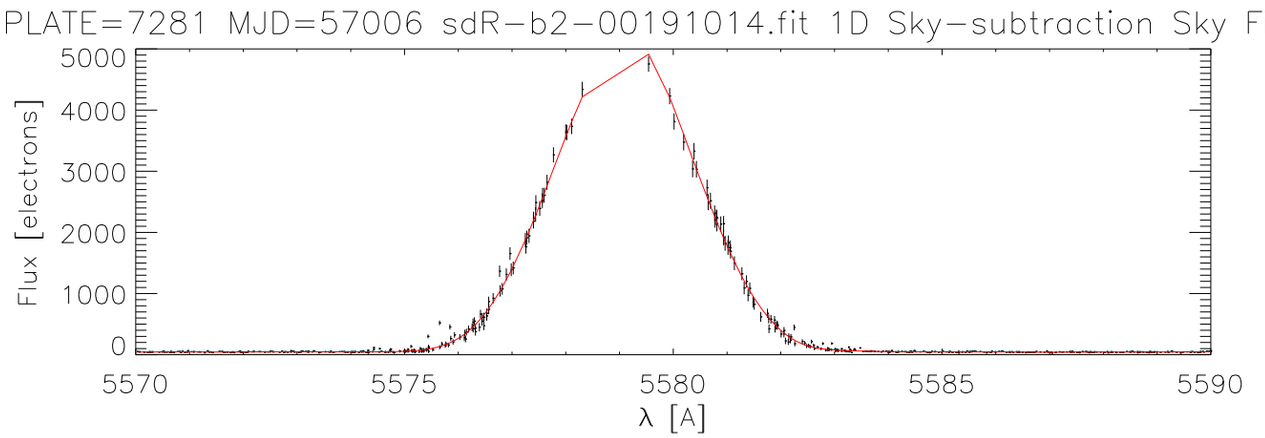

PLATE=7281 MJD=57006 Fiber−Flats for sdR−b2−00191013.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −1.011
Max value = 1.766
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sun May 29 03:40:08 2016

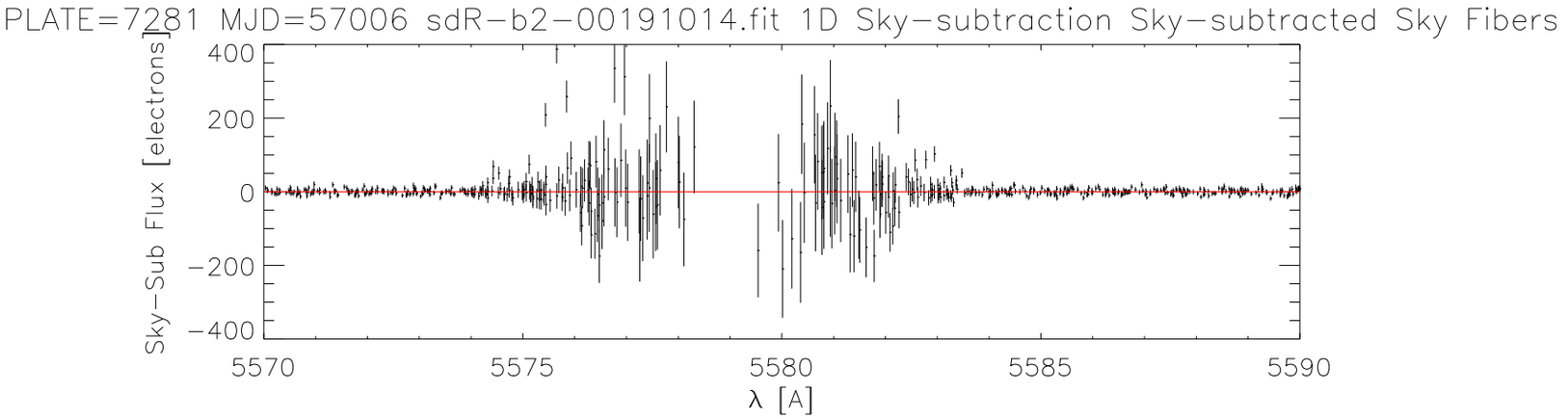

PLATE=7281 MJD=57006 Extraction chi^2 for sdR-b2-00191014.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=7281 MJD=57006 Sky Line Deviations for sdR-b2-00191014.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

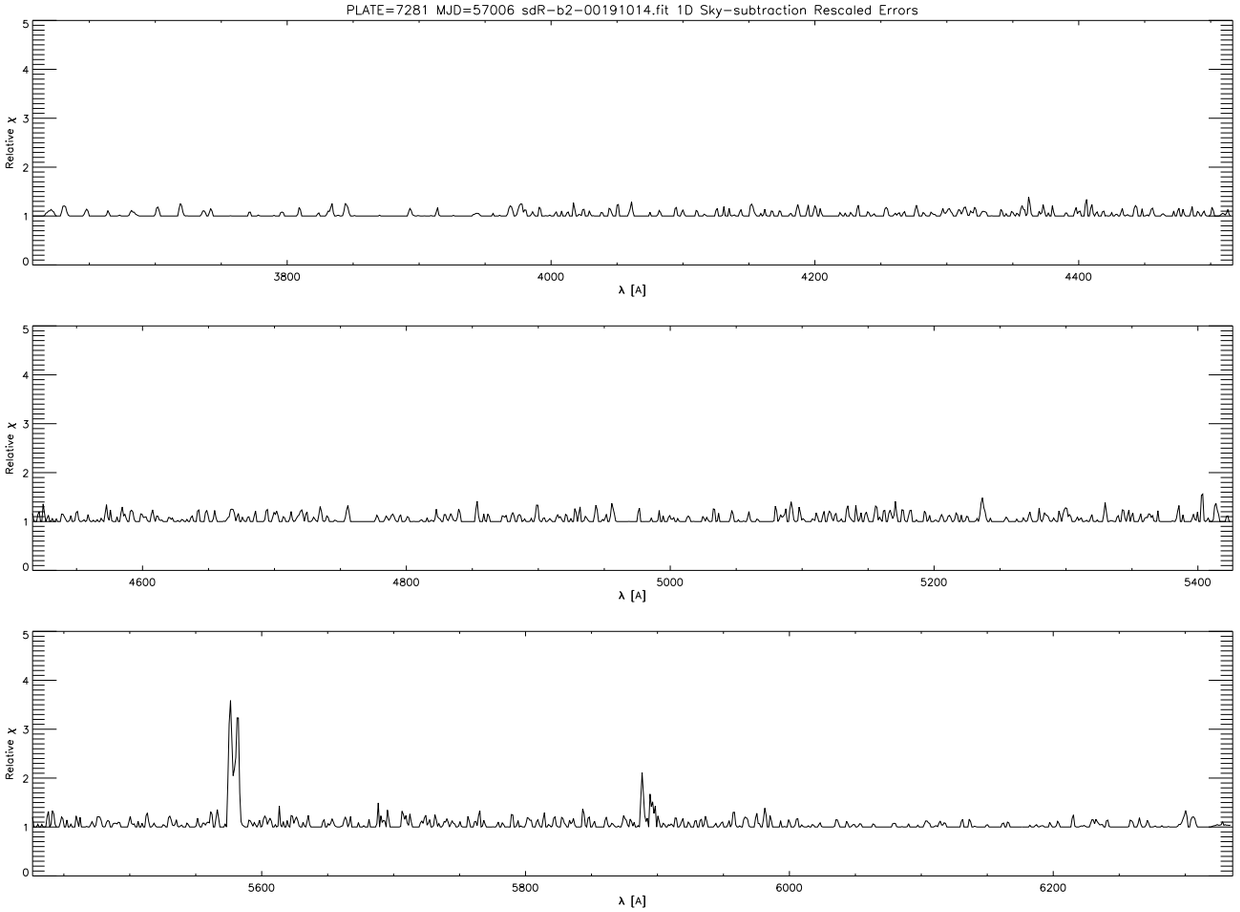

PLATE=7281 MJD=57006 Smooth superflat for sdR-b2-00191014.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

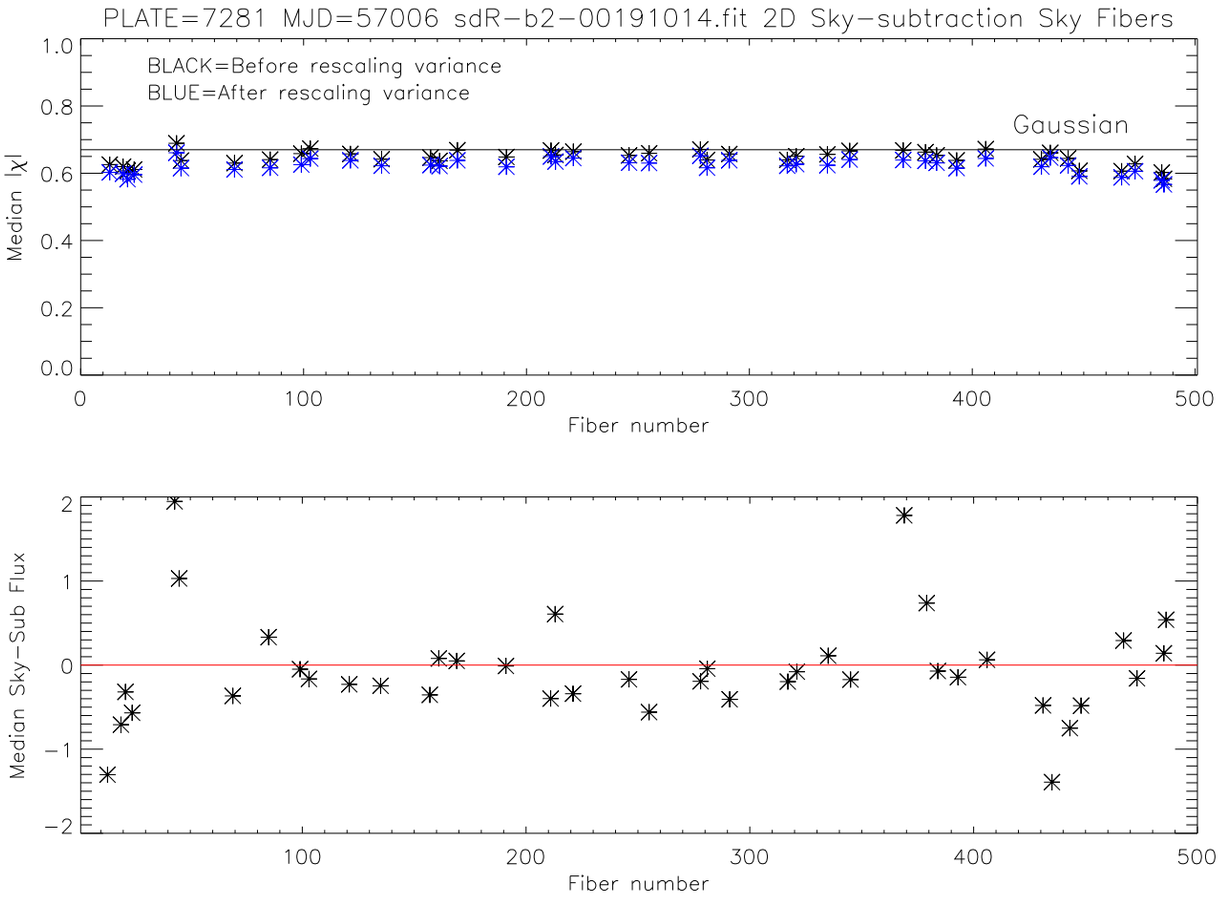

PLATE=7281 MJD=57006 sdR-b2-00191014.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

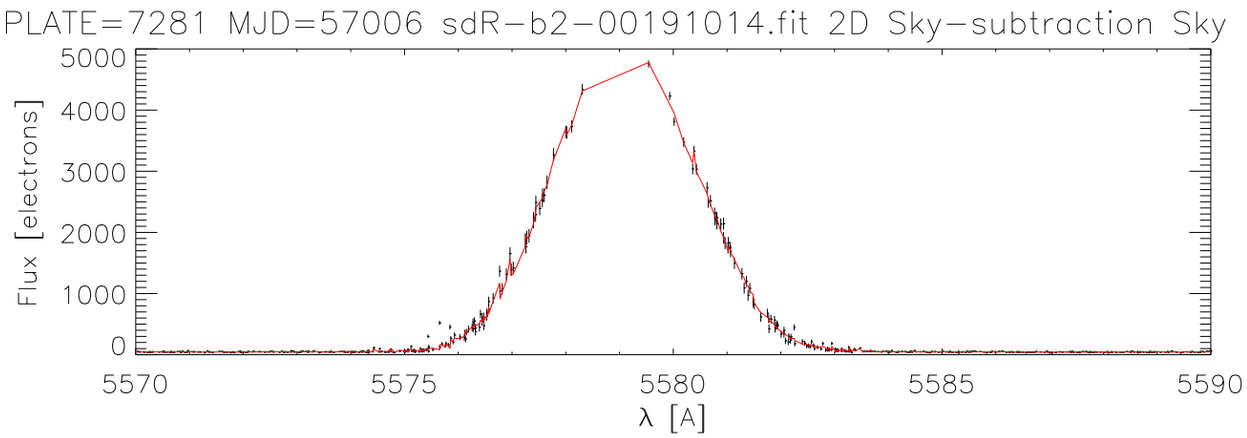

PLATE=7281 MJD=57006 sdR-b2-00191014.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

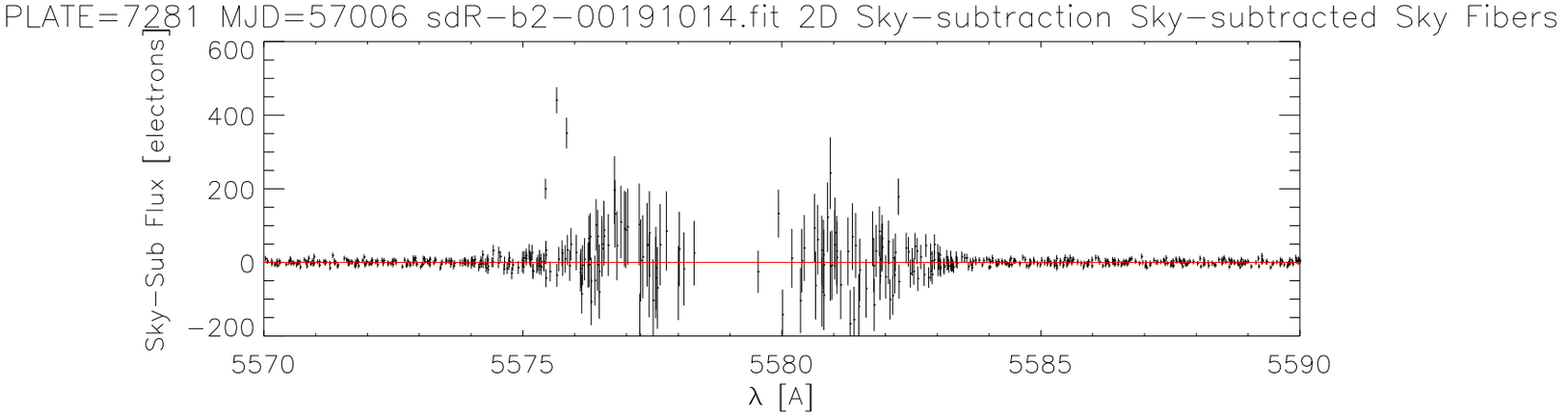

PLATE=7281 MJD=57006 sdR-b2-00191014.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 41

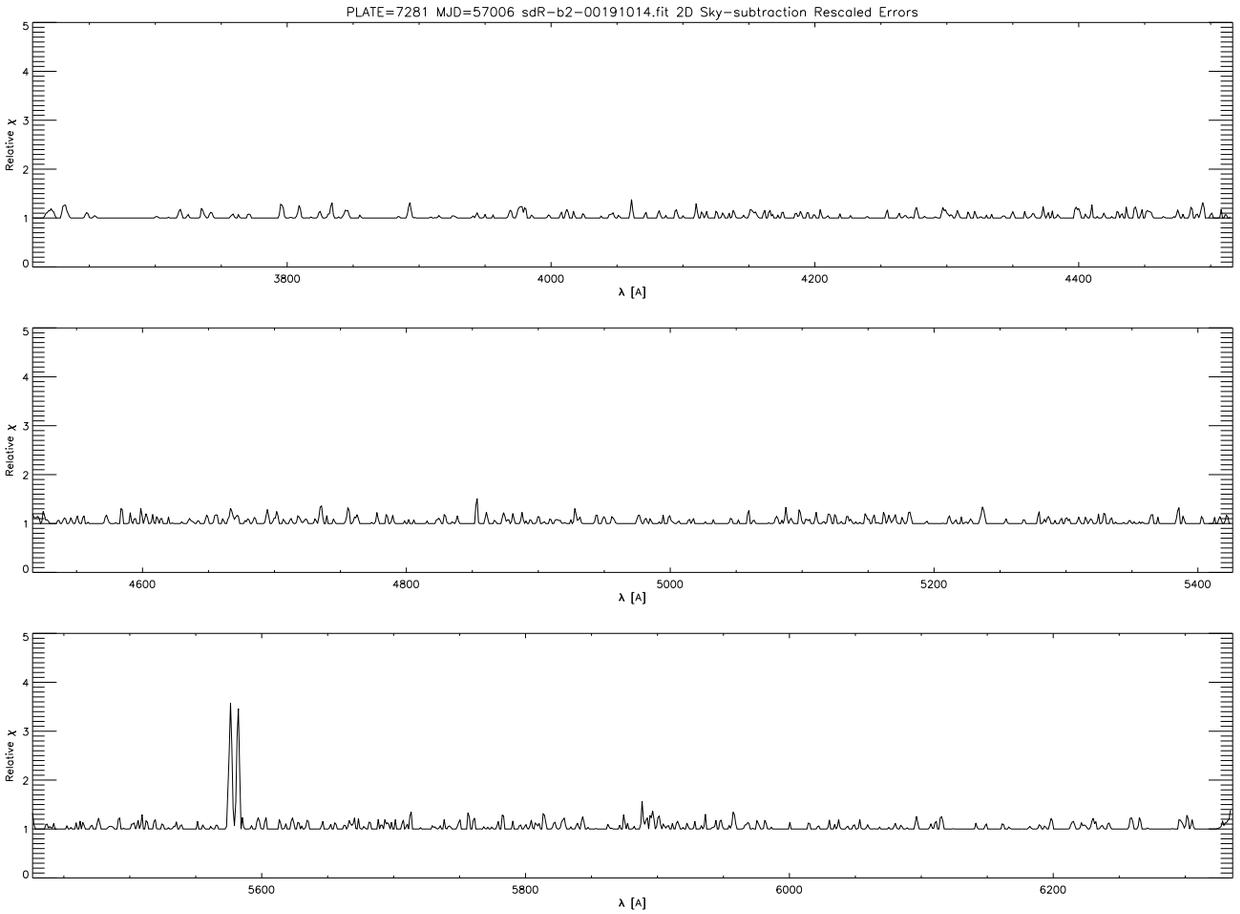


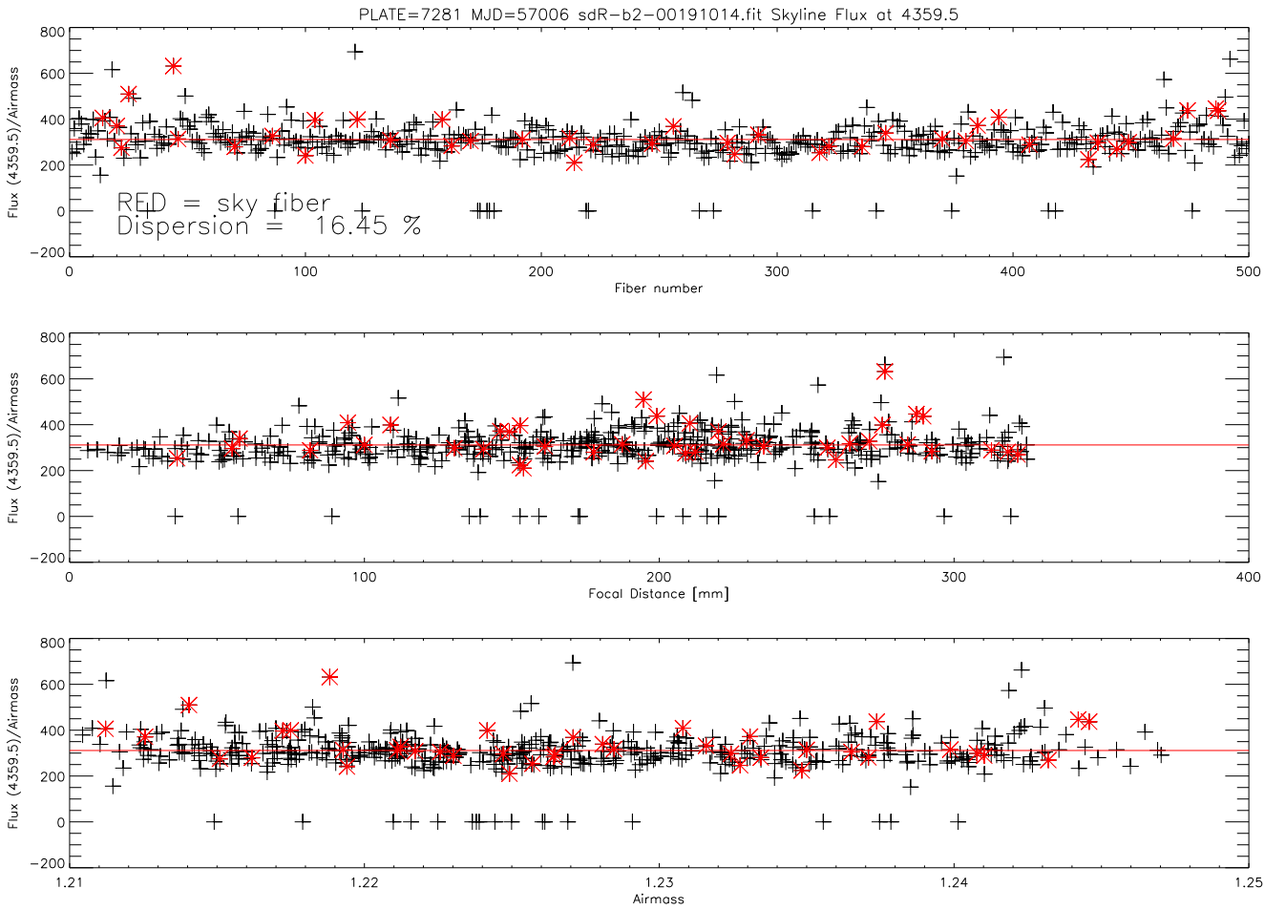

PLATE=7281 MJD=57006 sdR-b2-00191014.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

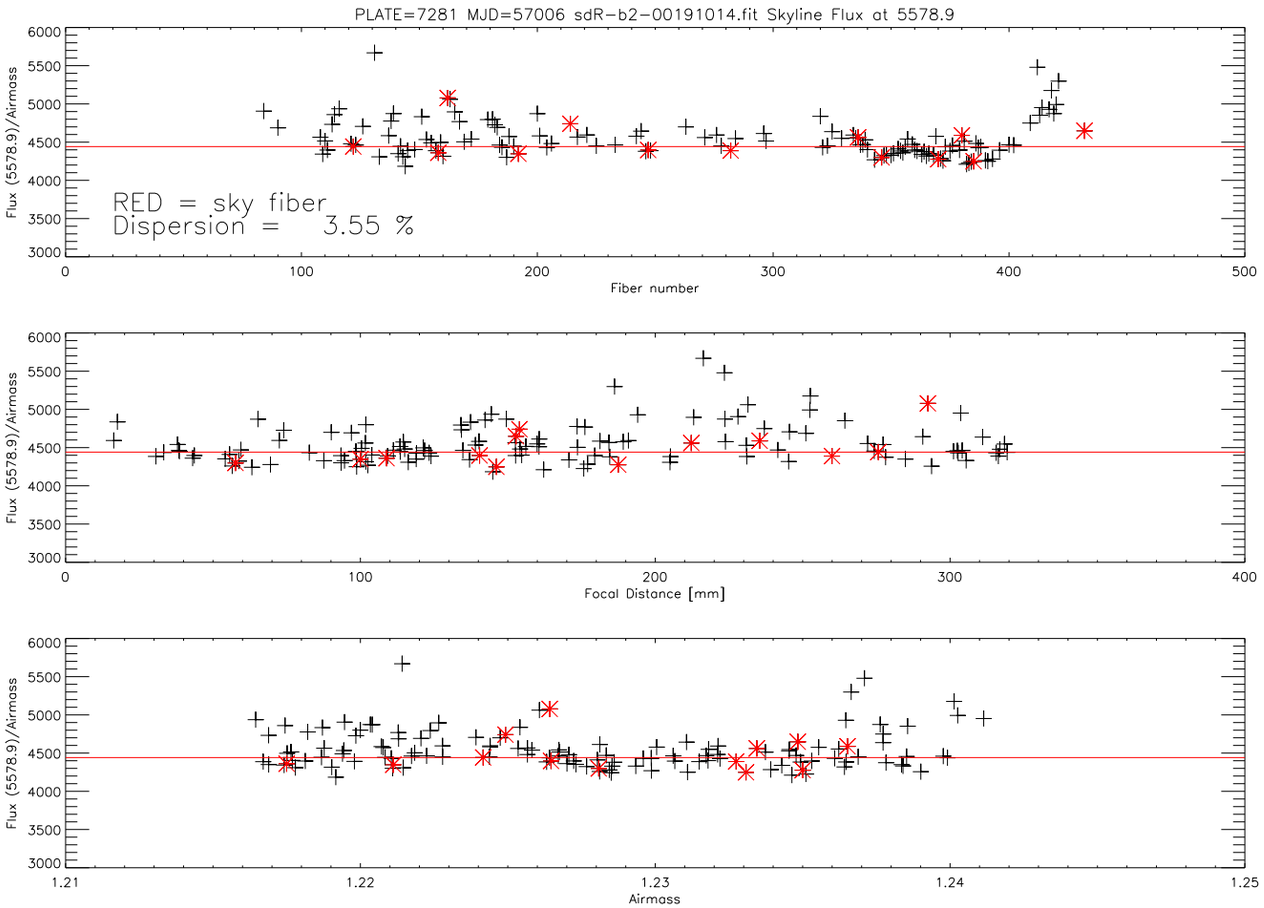

PLATE=7281 MJD=57006 sdR-b2-00191014.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

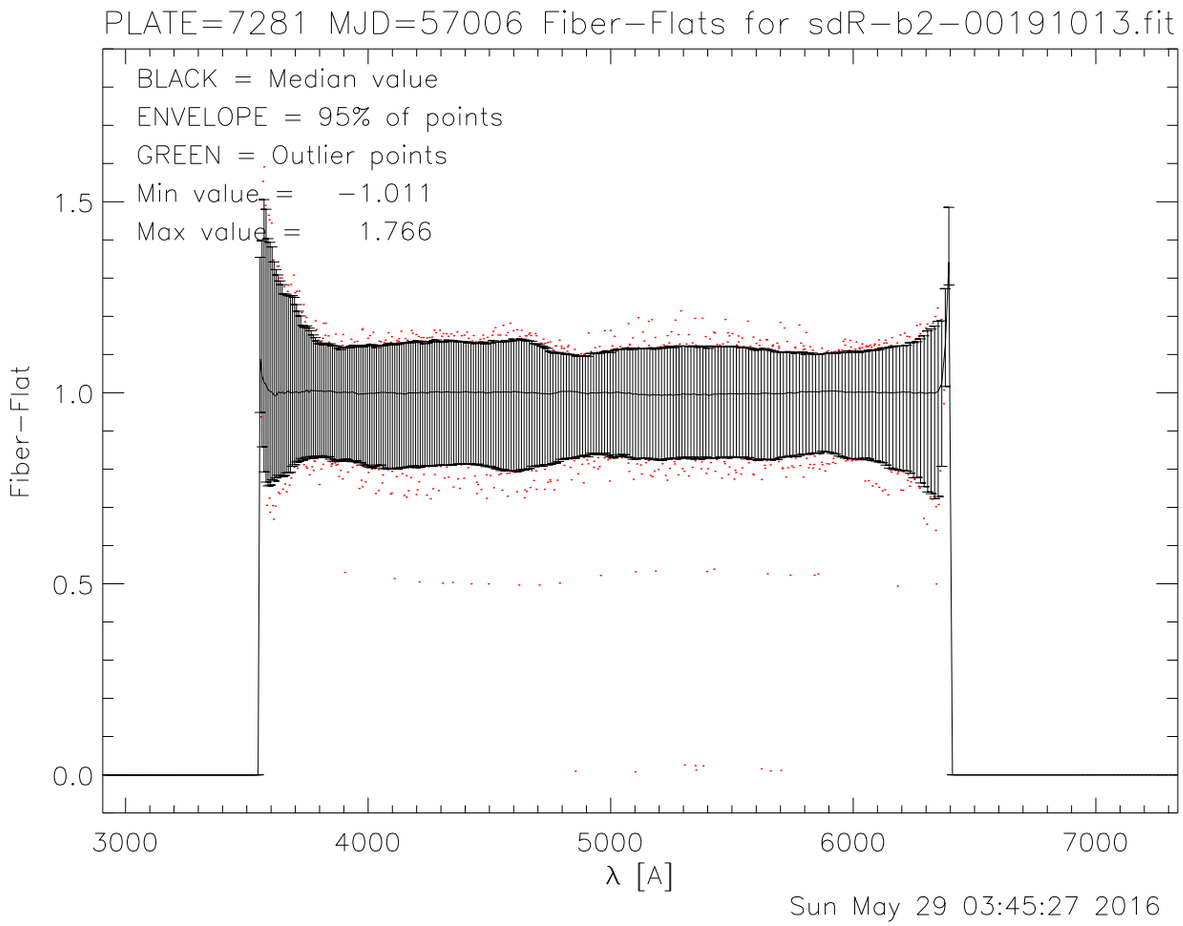

PLATE=7281 MJD=57006 sdR-b2-00191014.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
600
400
200
0
−200
5570
5575
5580
5585
5590
λ [A]

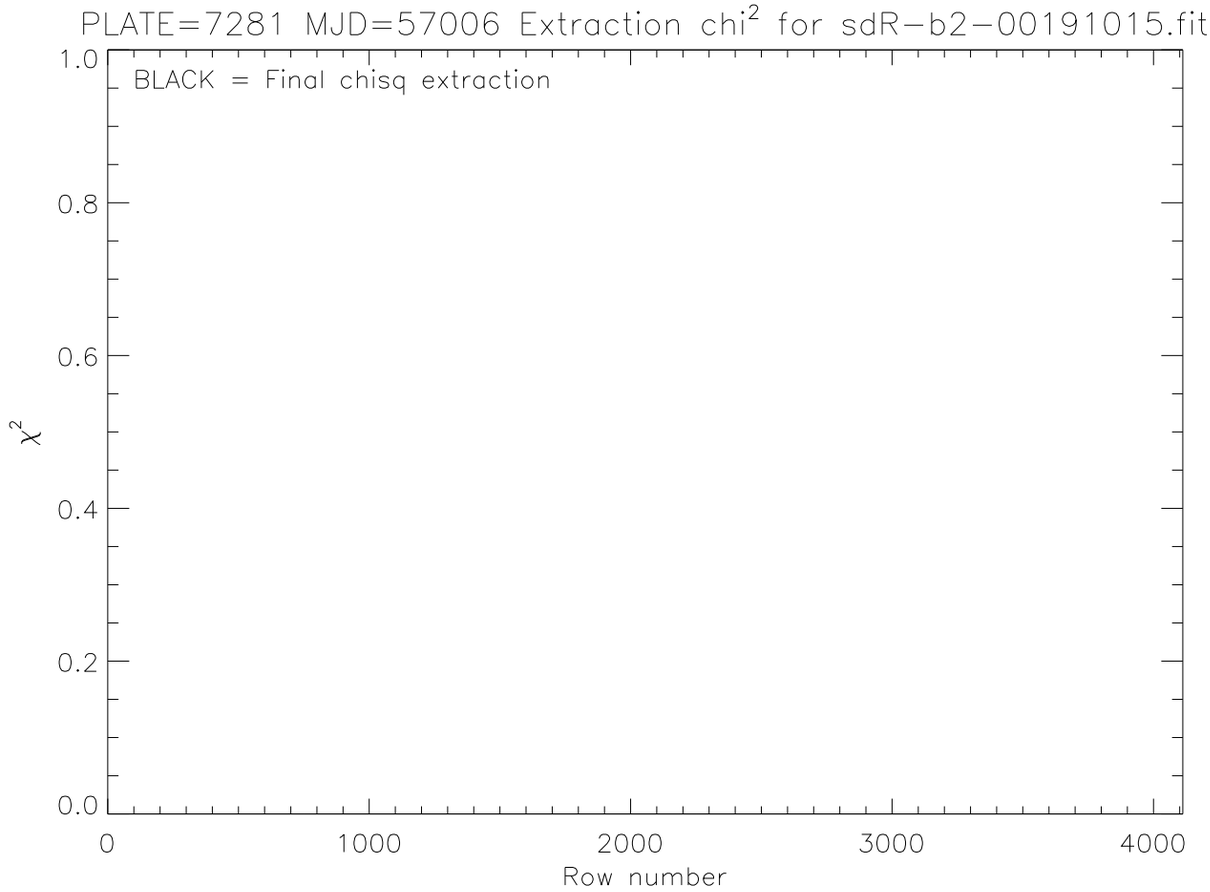
Number of sky fibers = 41

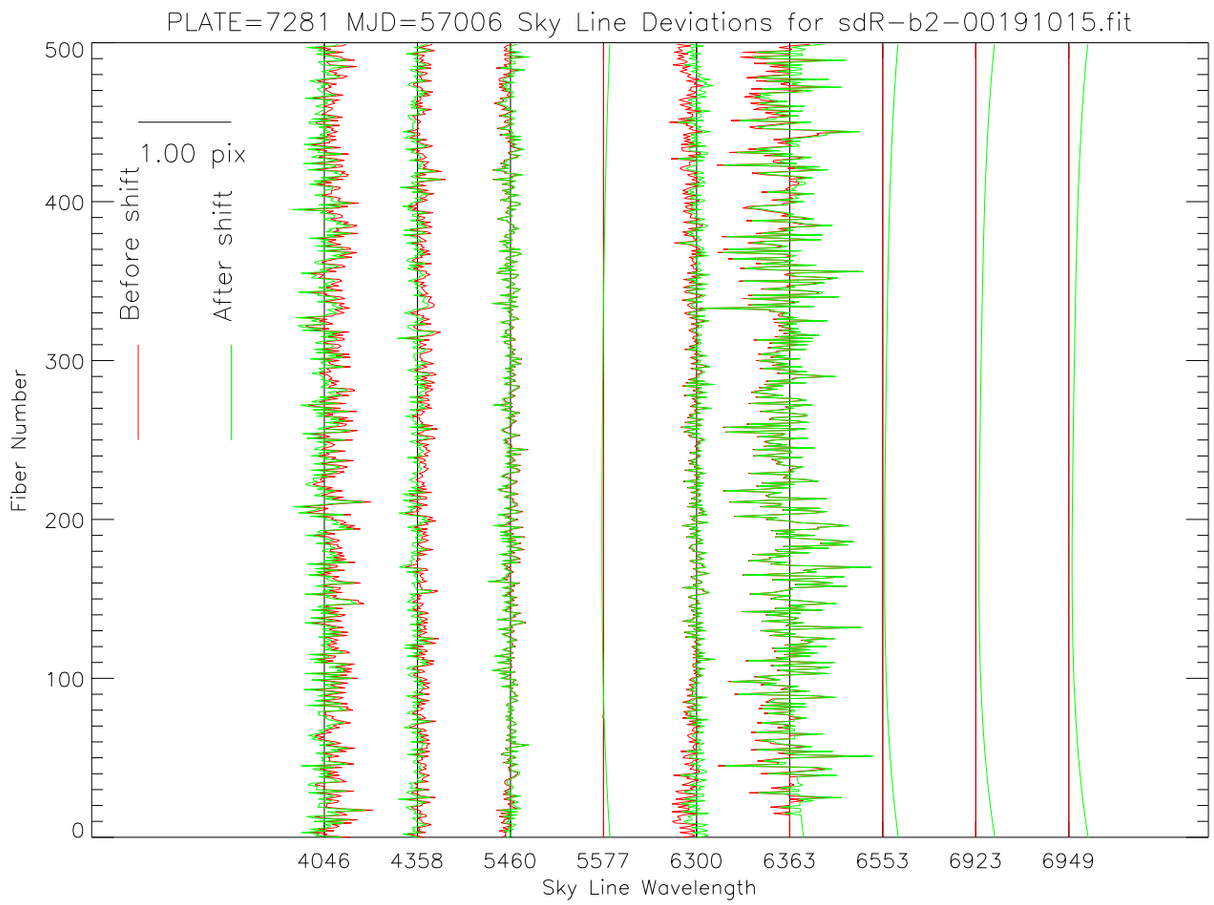


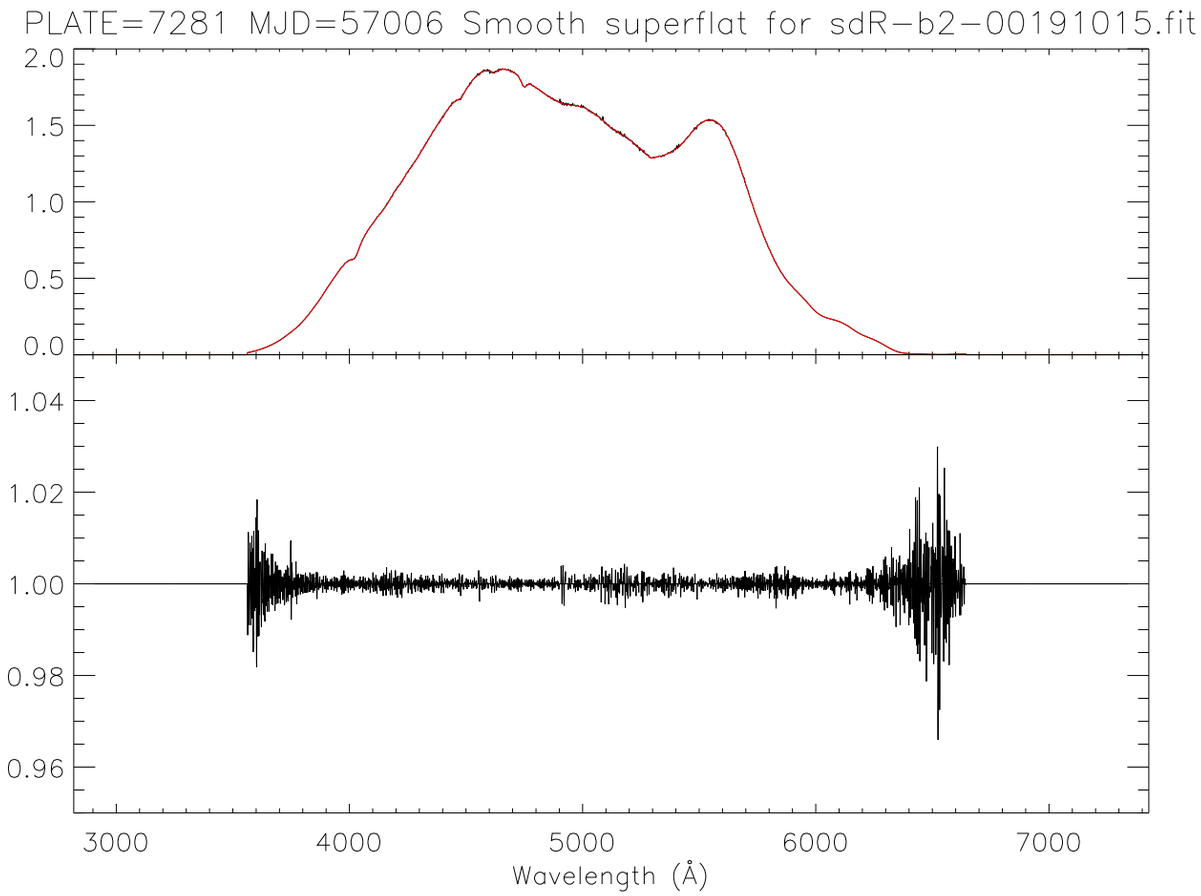

PLATE=7281 MJD=57006 sdR-b2-00191014.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 16.45 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

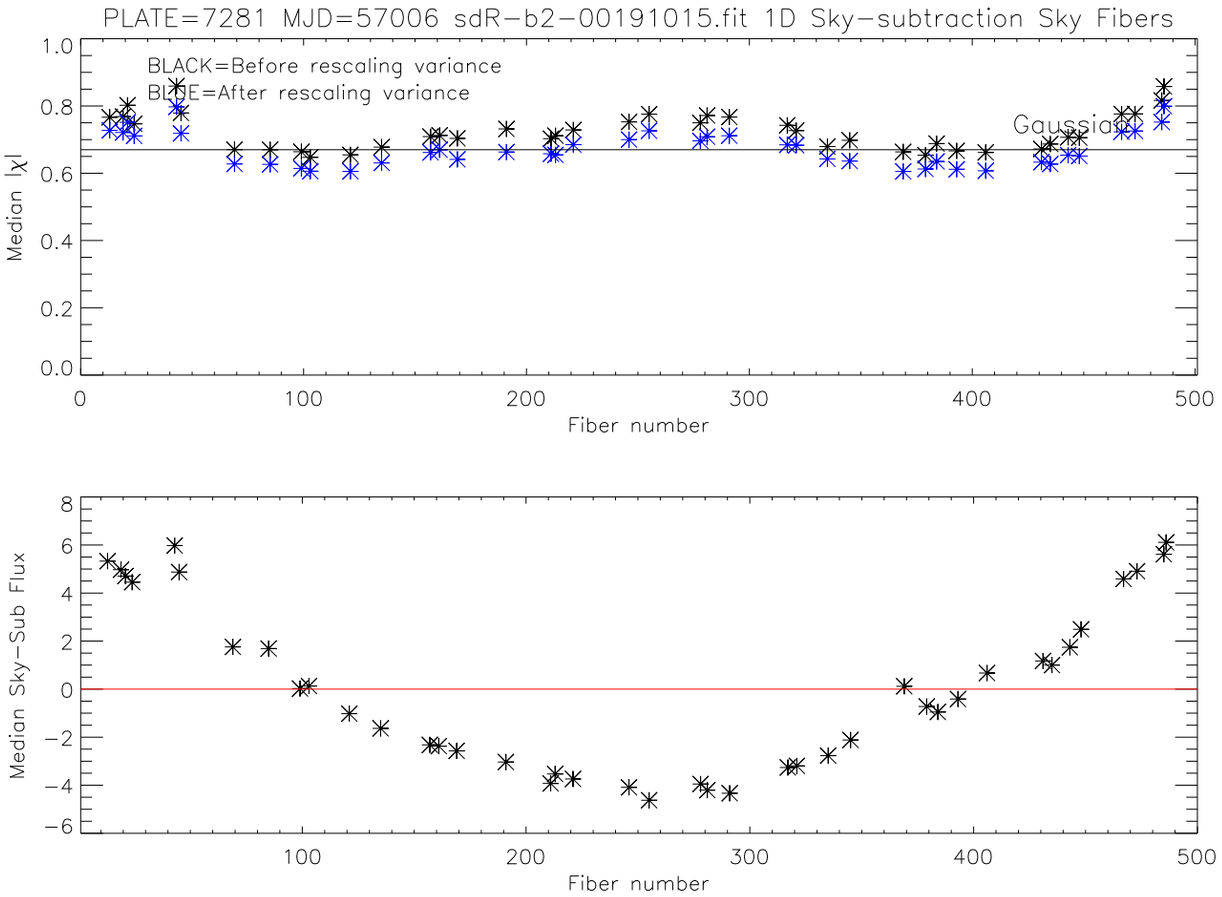

PLATE=7281 MJD=57006 sdR-b2-00191014.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 3.55 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

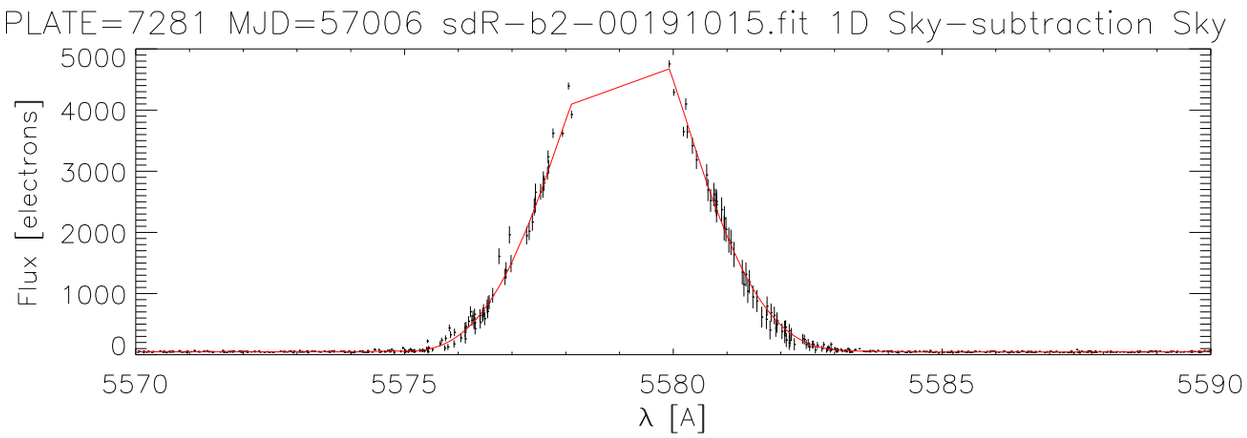

PLATE=7281 MJD=57006 Fiber−Flats for sdR−b2−00191013.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −1.011
Max value = 1.766
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sun May 29 03:45:27 2016

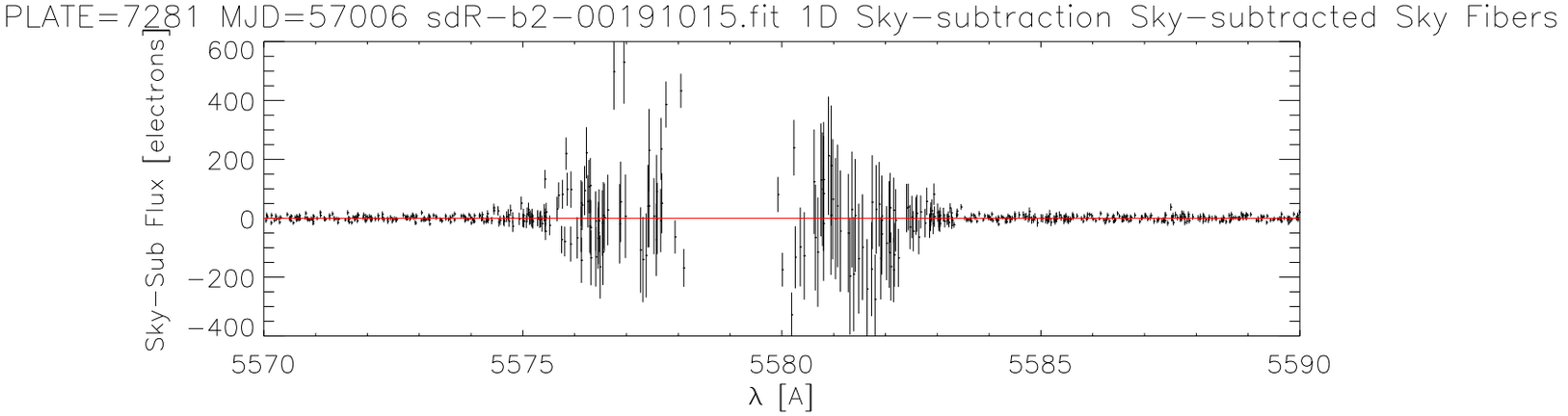

PLATE=7281 MJD=57006 Extraction chi^2 for sdR-b2-00191015.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=7281 MJD=57006 Sky Line Deviations for sdR-b2-00191015.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

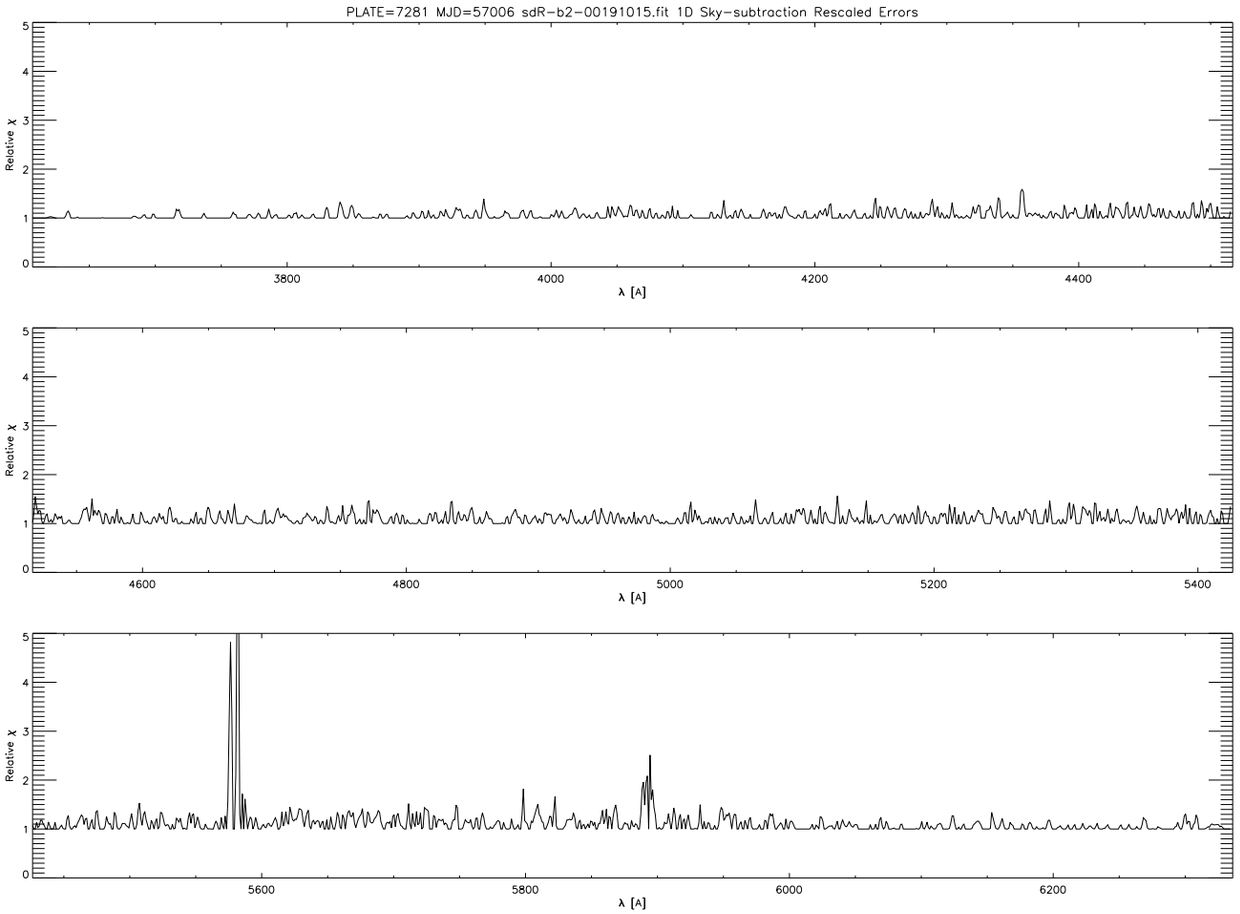

PLATE=7281 MJD=57006 Smooth superflat for sdR-b2-00191015.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

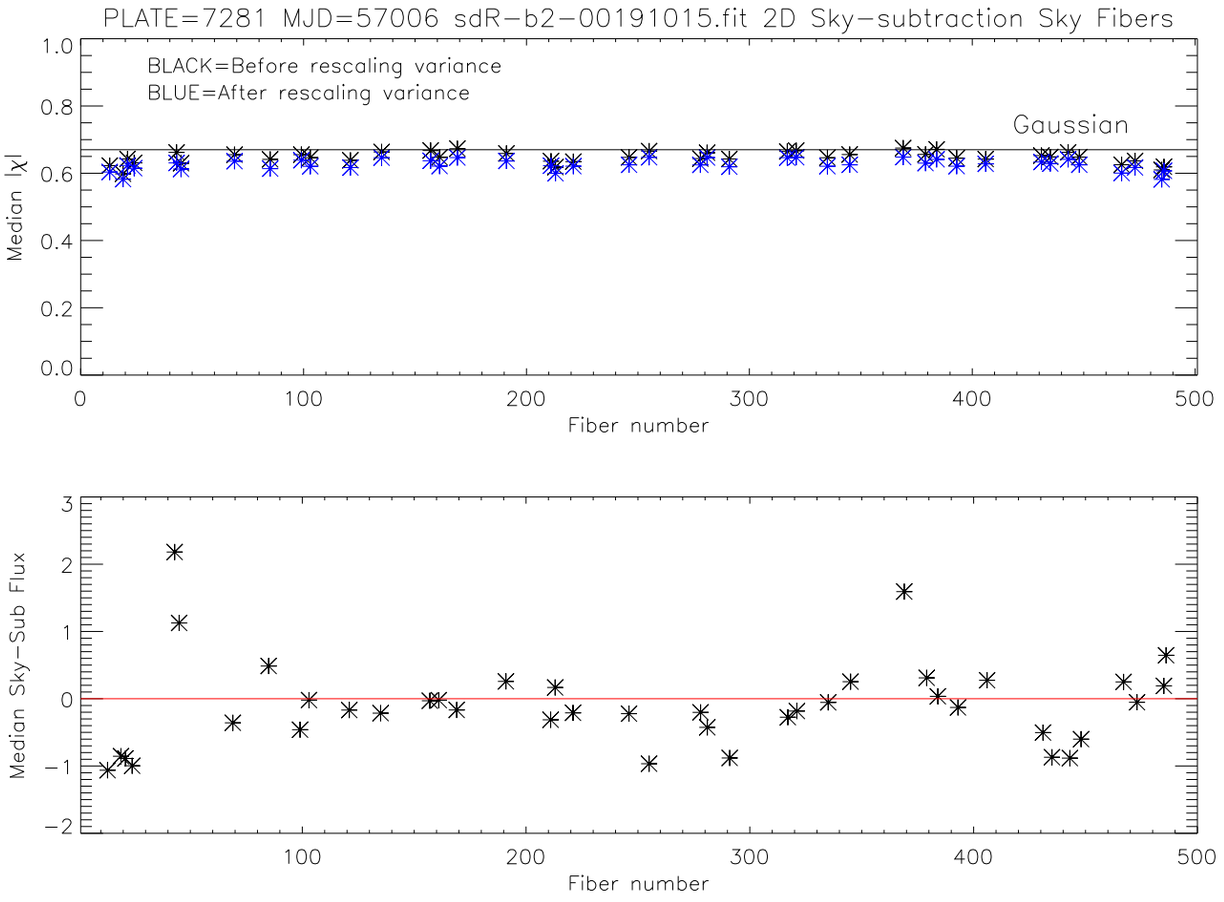

PLATE=7281 MJD=57006 sdR-b2-00191015.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

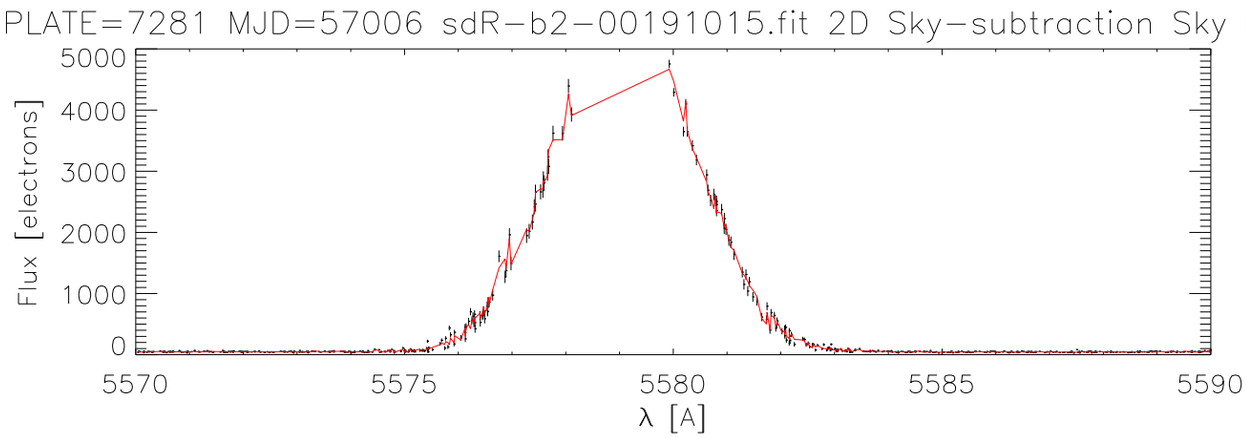

PLATE=7281 MJD=57006 sdR-b2-00191015.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

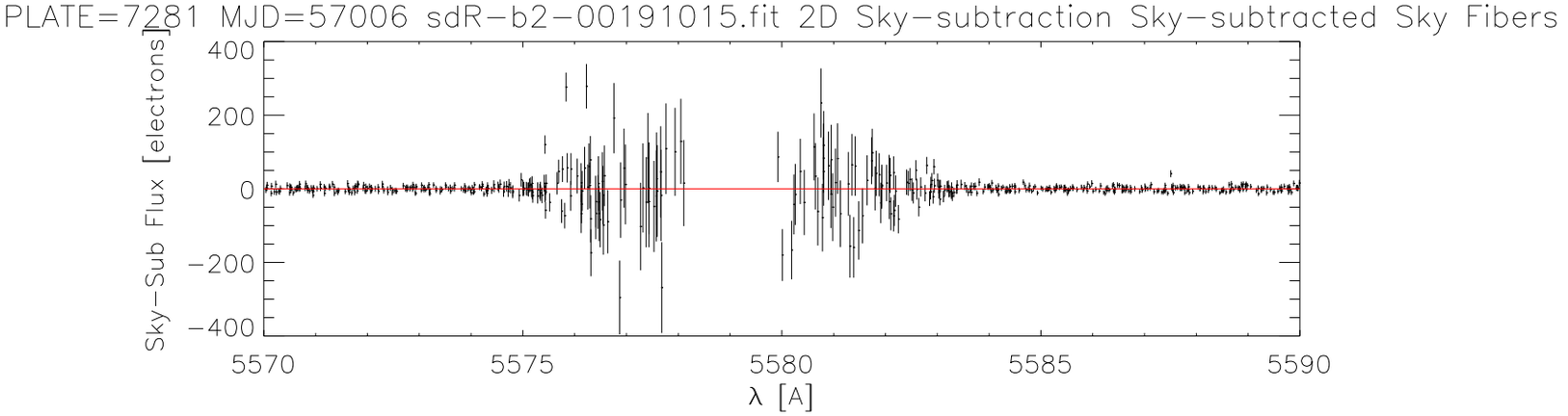

PLATE=7281 MJD=57006 sdR-b2-00191015.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 41

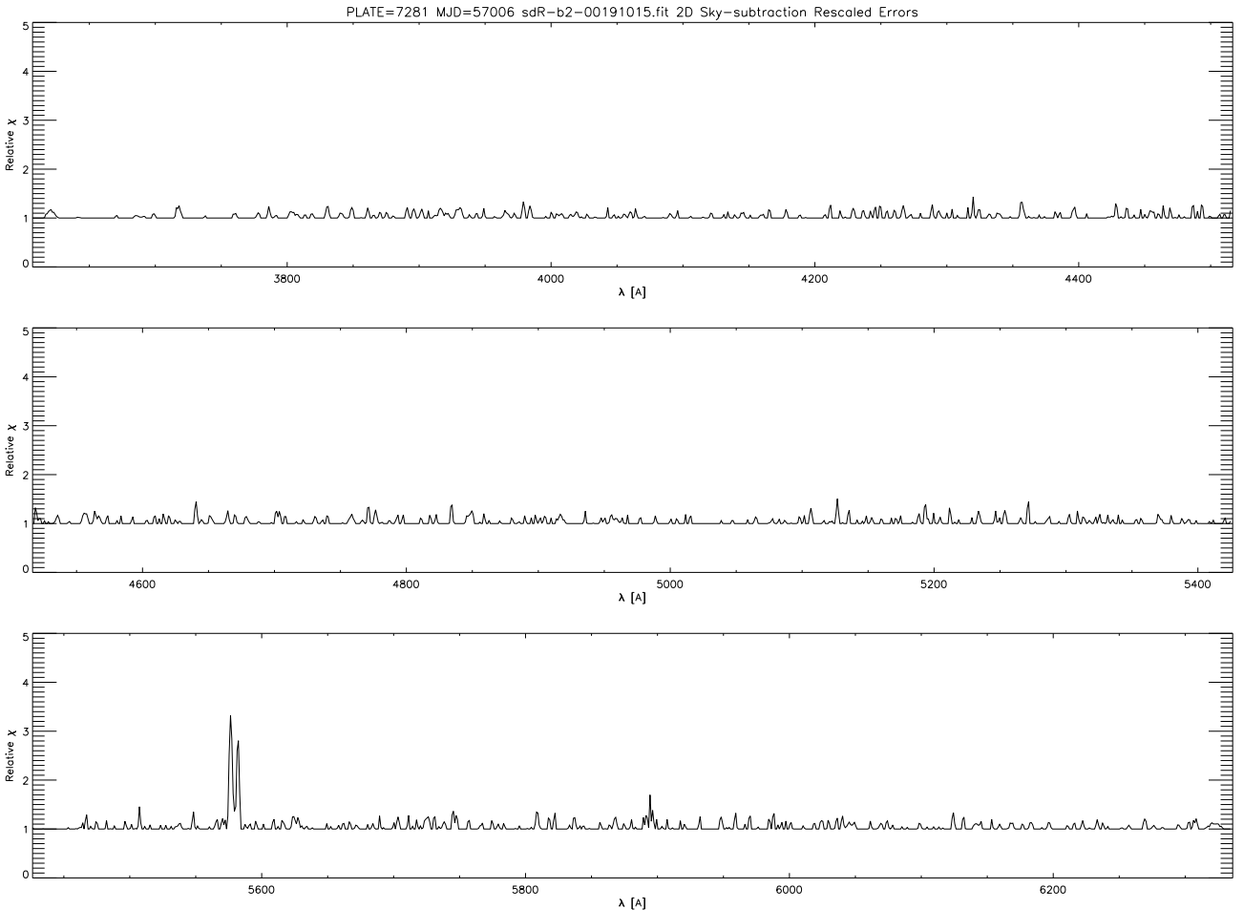


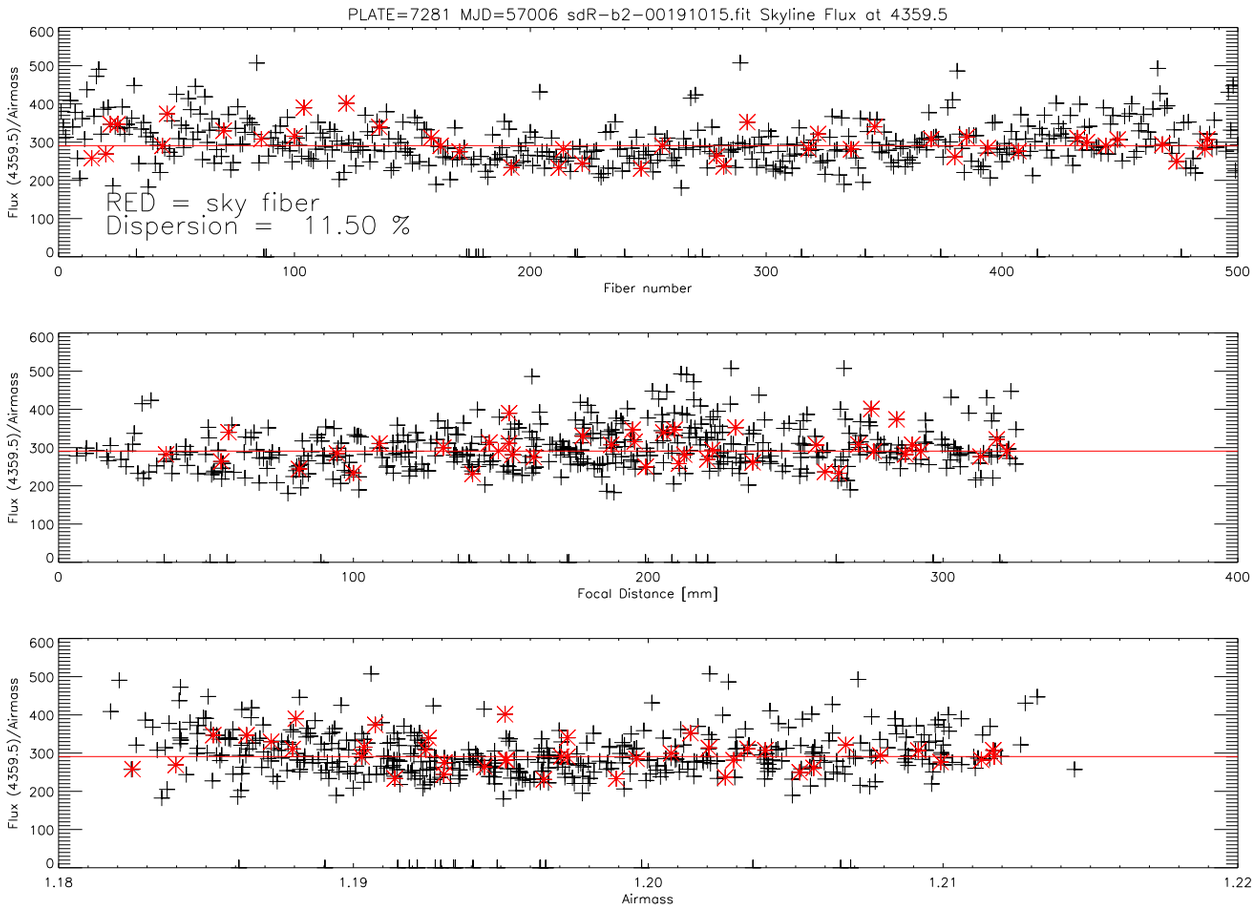

PLATE=7281 MJD=57006 sdR-b2-00191015.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

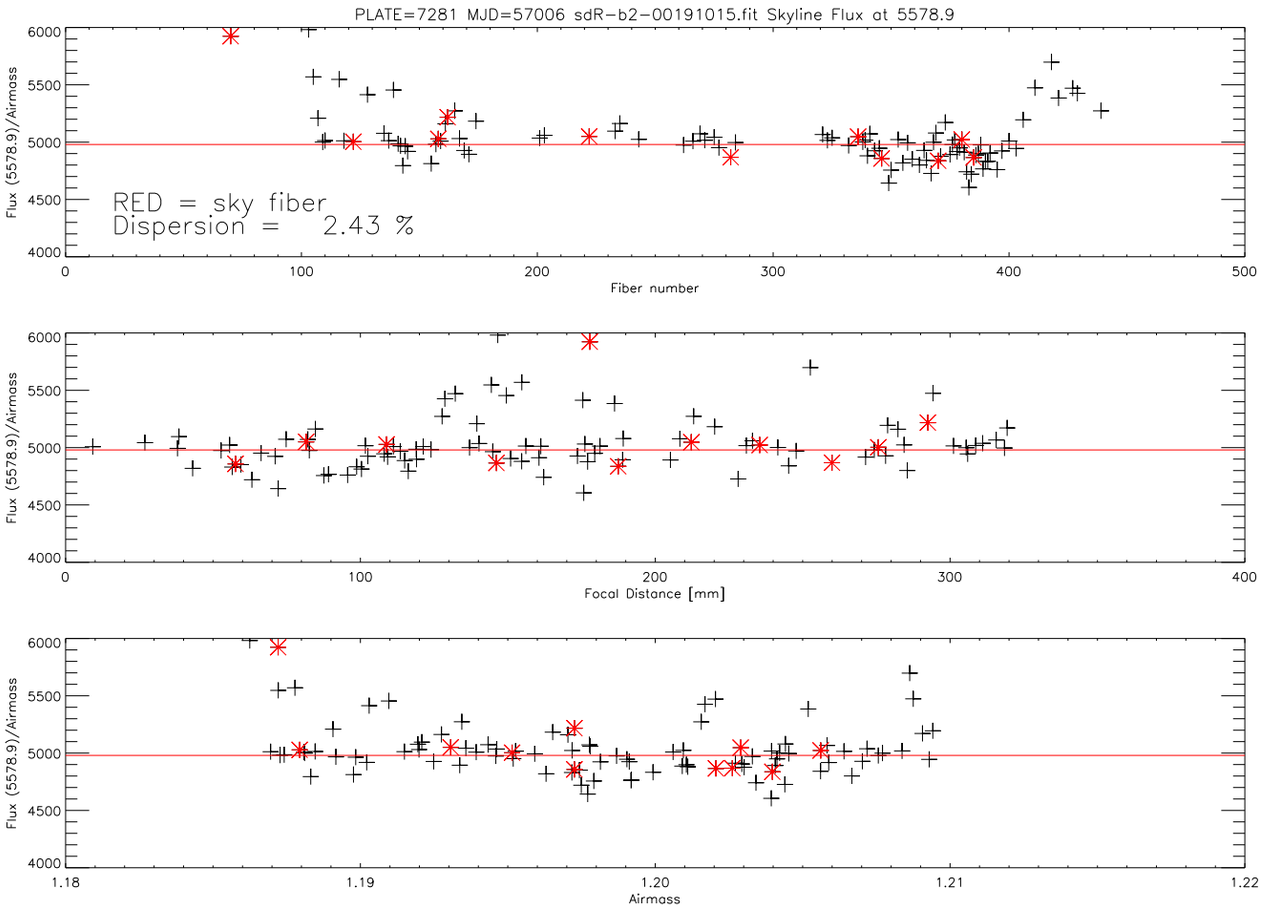

PLATE=7281 MJD=57006 sdR-b2-00191015.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

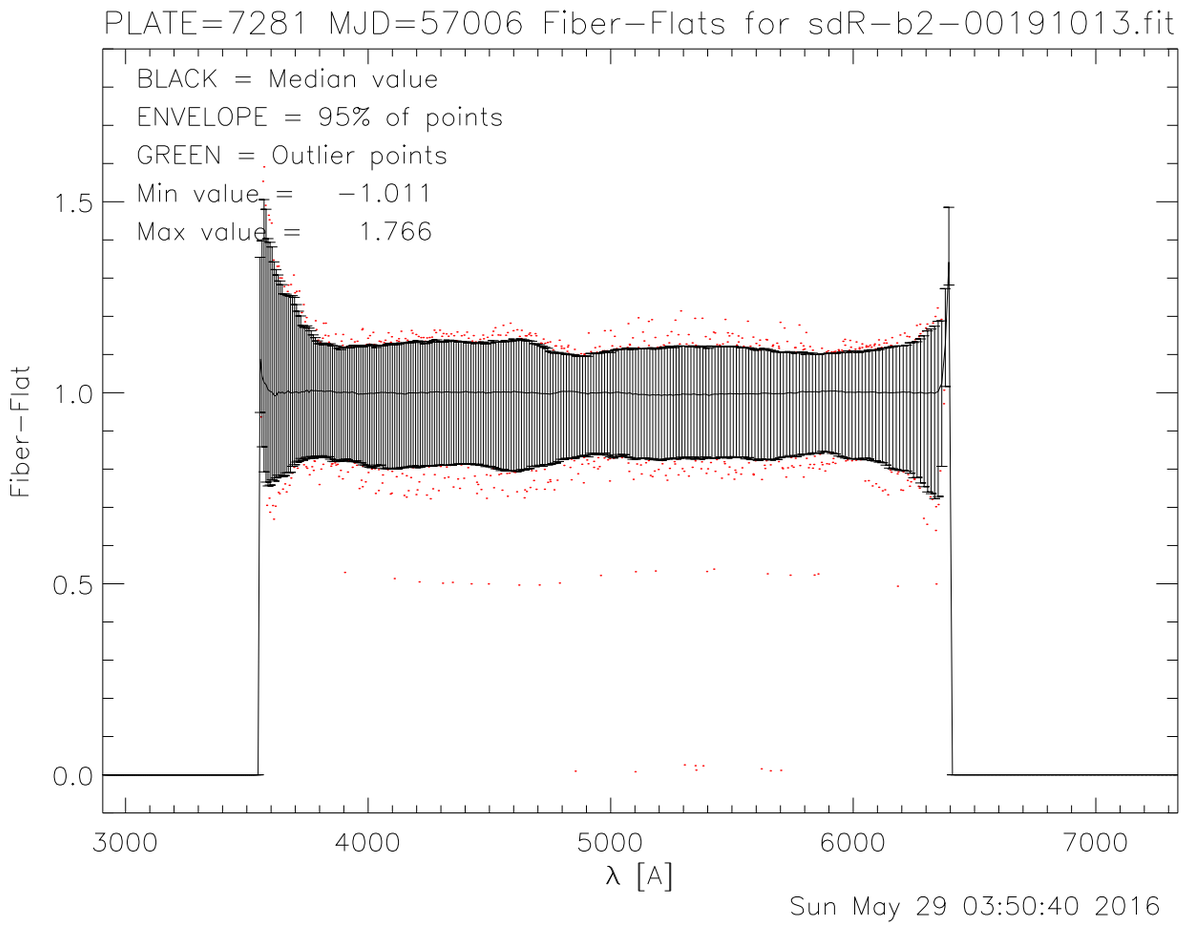

PLATE=7281 MJD=57006 sdR-b2-00191015.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

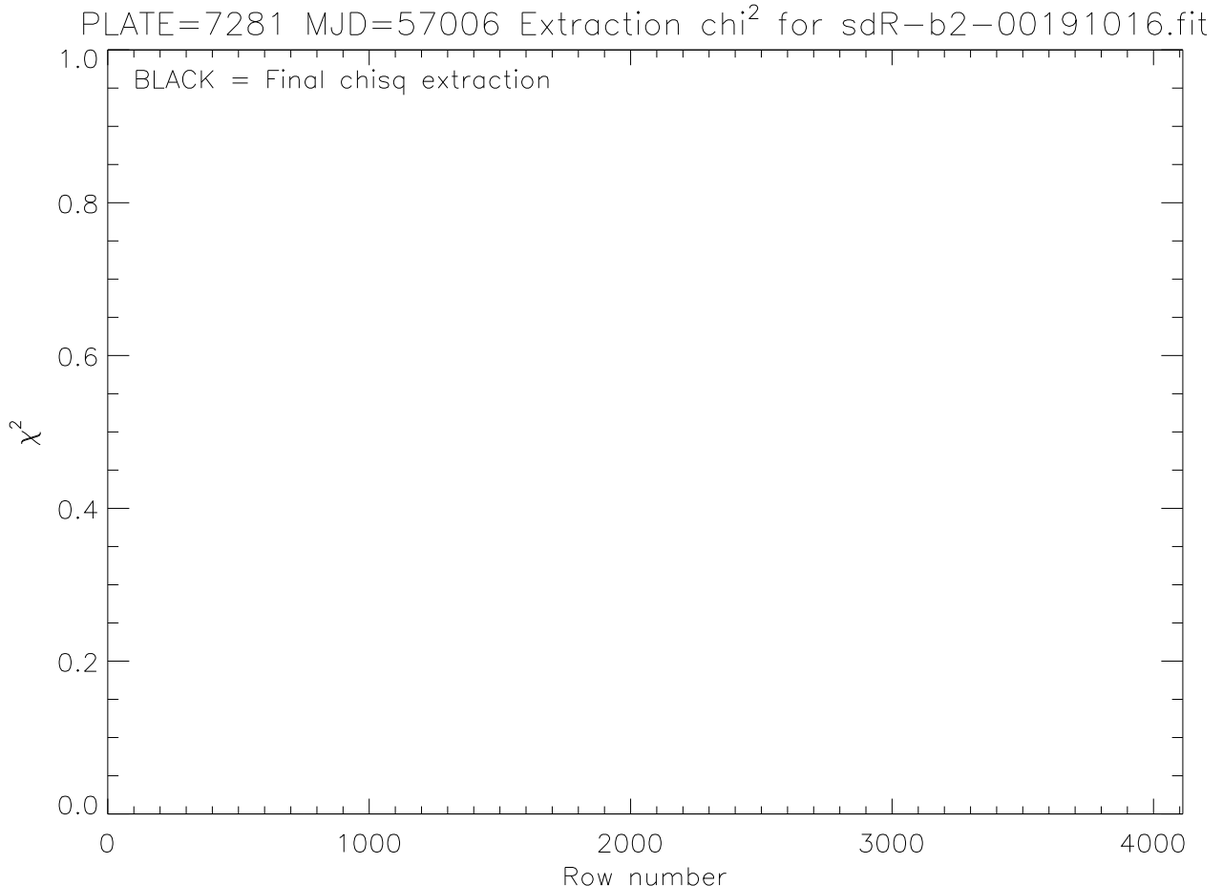
Number of sky fibers = 41

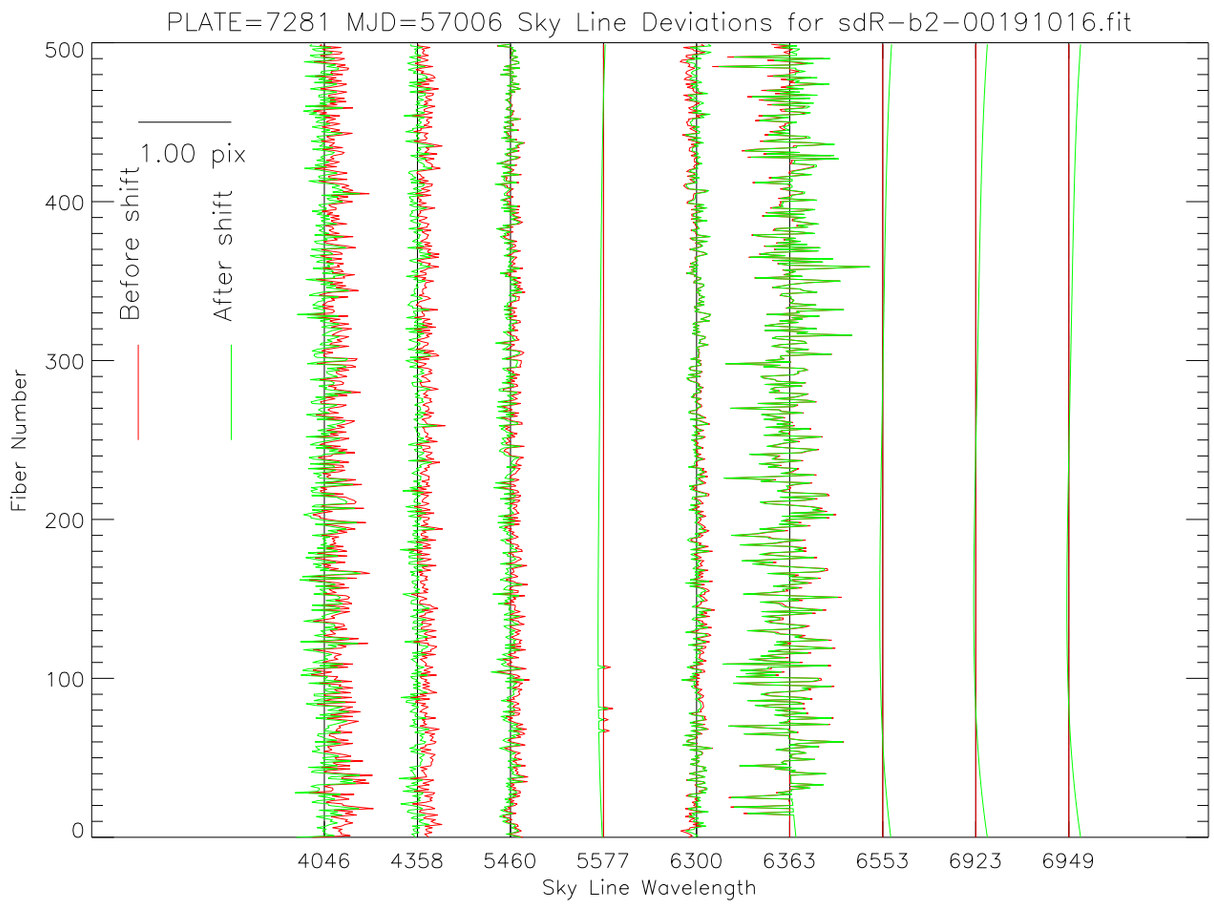


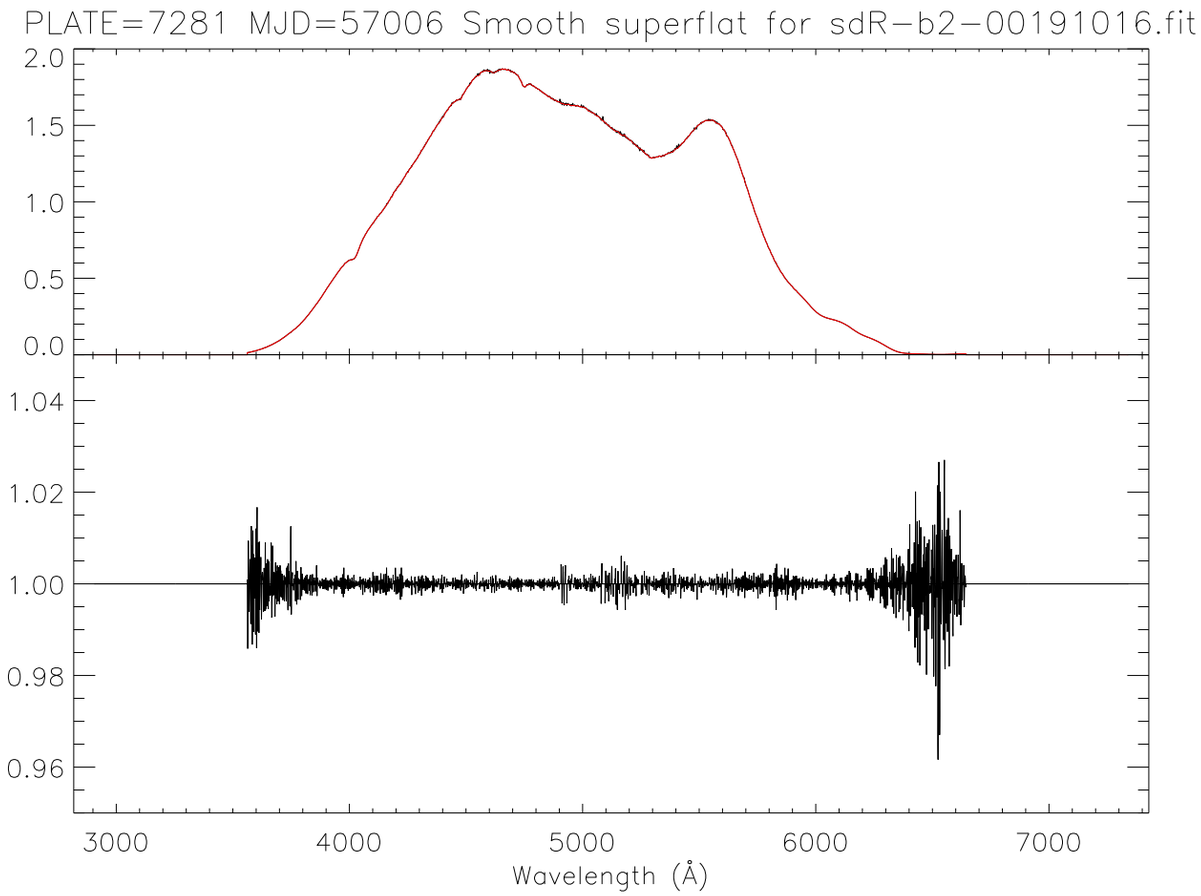

PLATE=7281 MJD=57006 sdR-b2-00191015.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 11.50 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

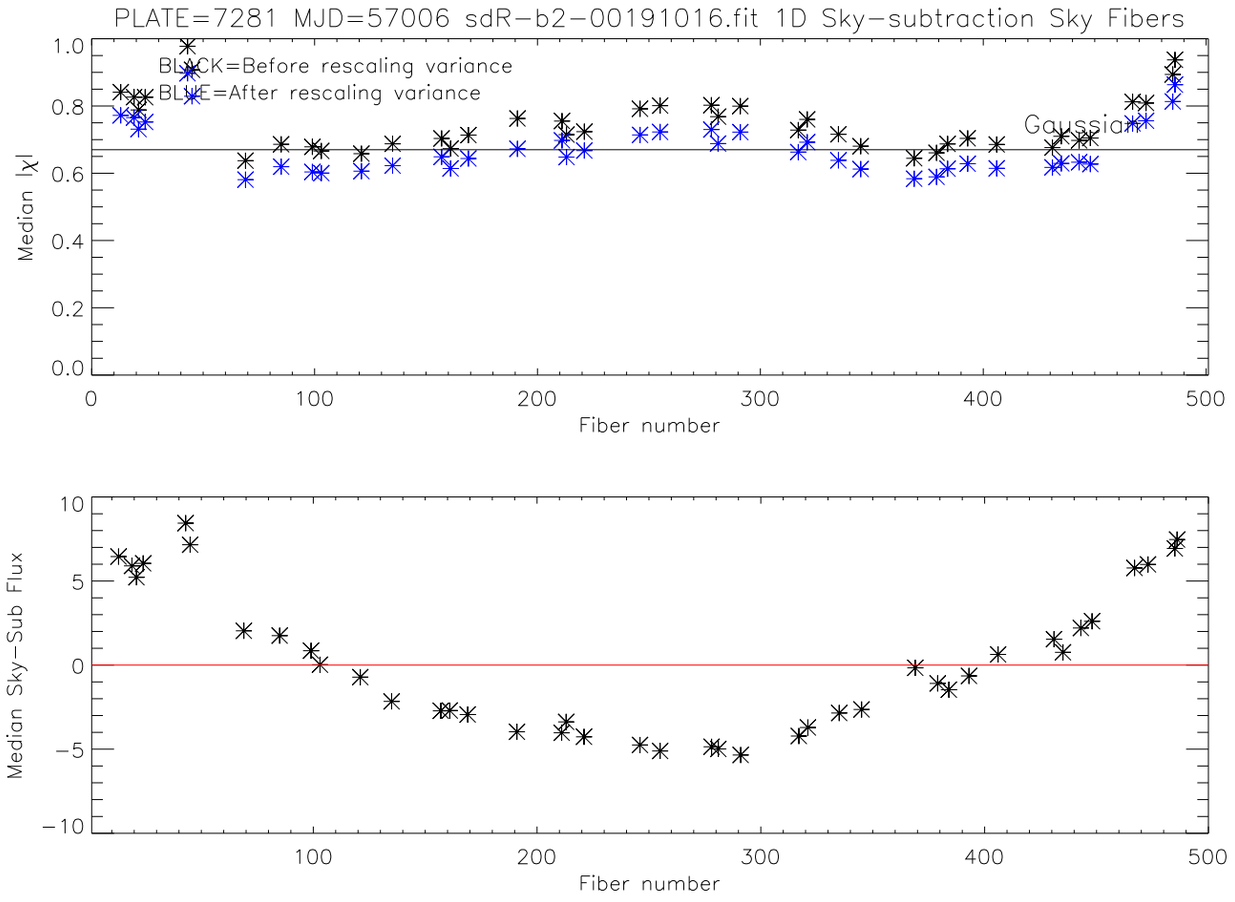

PLATE=7281 MJD=57006 sdR-b2-00191015.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.43 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

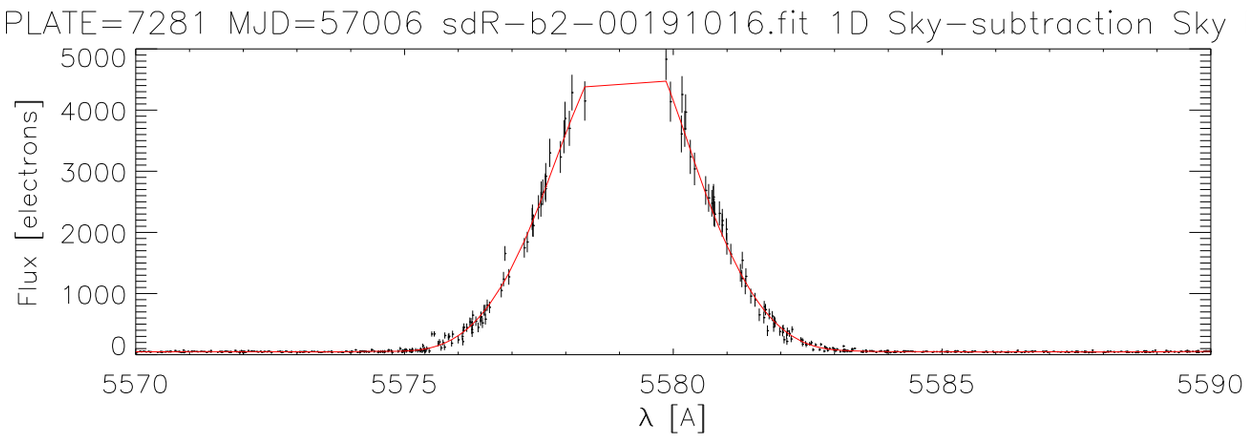

PLATE=7281 MJD=57006 Fiber−Flats for sdR−b2−00191013.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = −1.011
Max value = 1.766
Fiber−Flat
1.5
1.0
0.5
0.0
3000
4000
5000
6000
7000
λ [A]
Sun May 29 03:50:40 2016

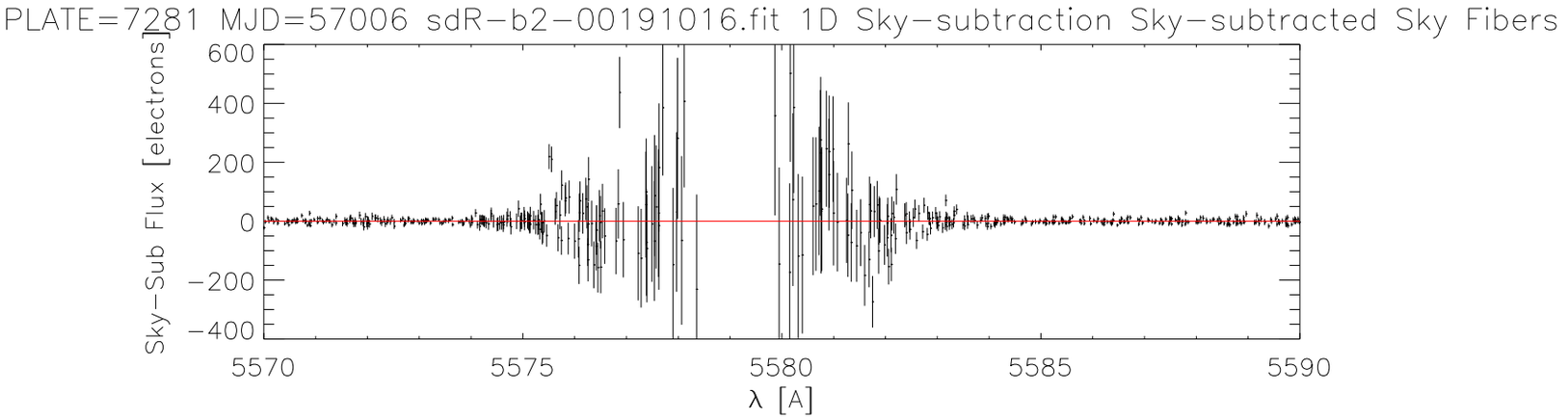

PLATE=7281 MJD=57006 Extraction chi^2 for sdR-b2-00191016.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=7281 MJD=57006 Sky Line Deviations for sdR-b2-00191016.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

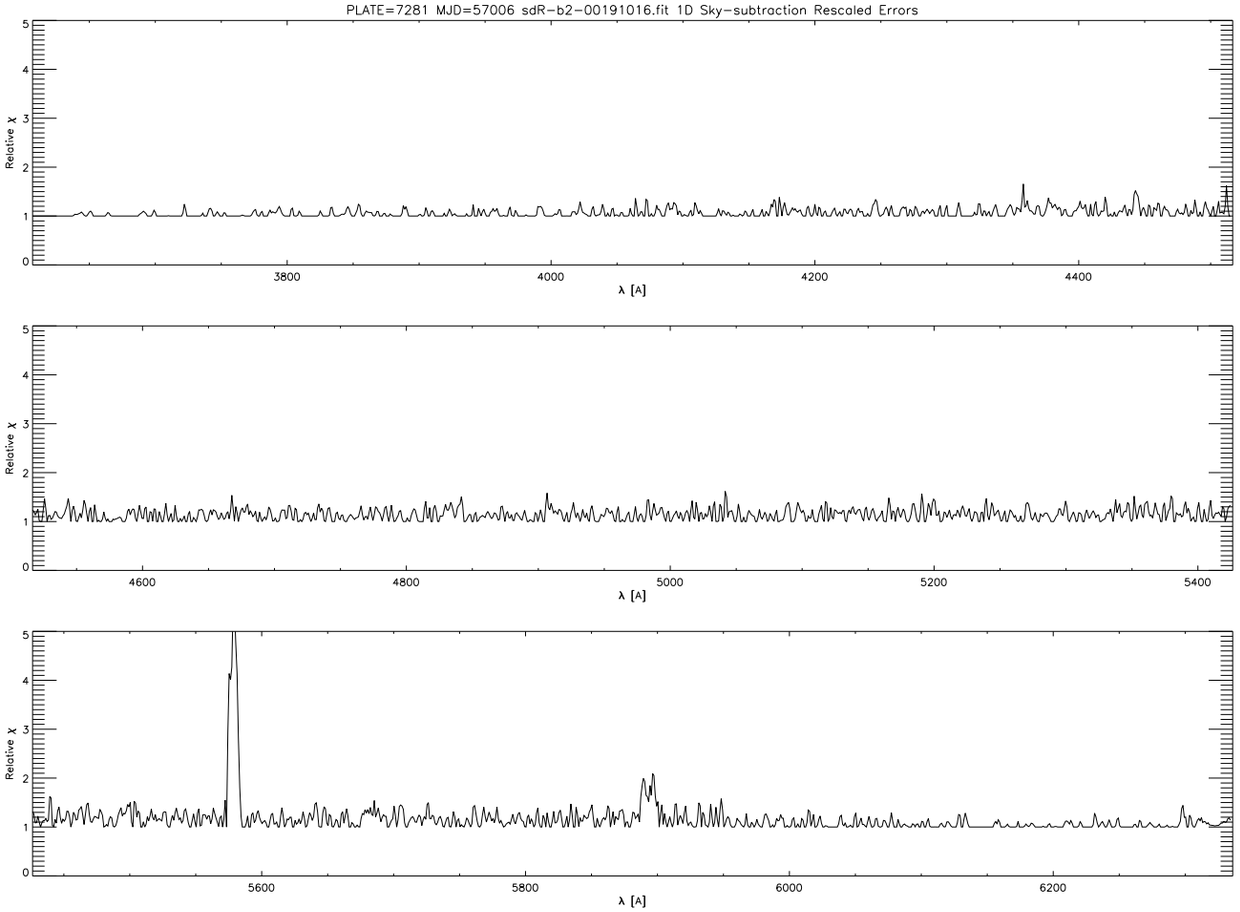

PLATE=7281 MJD=57006 Smooth superflat for sdR-b2-00191016.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
3000
4000
5000
6000
7000
Wavelength (Å)

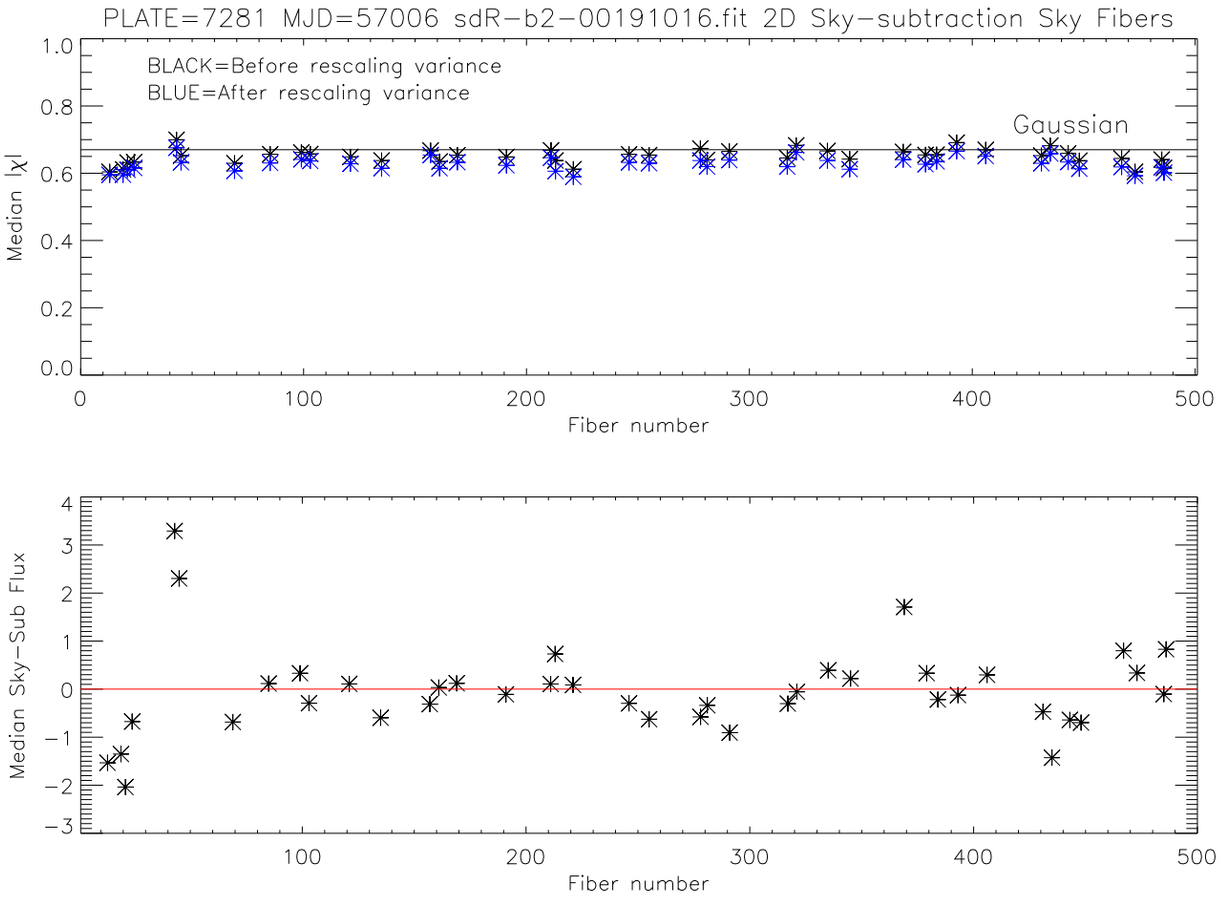

PLATE=7281 MJD=57006 sdR-b2-00191016.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

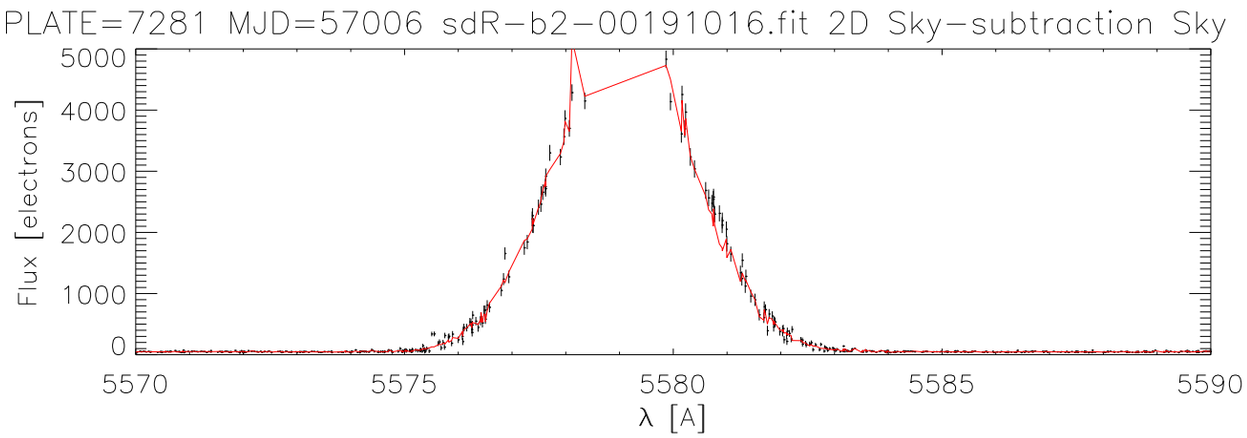

PLATE=7281 MJD=57006 sdR-b2-00191016.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

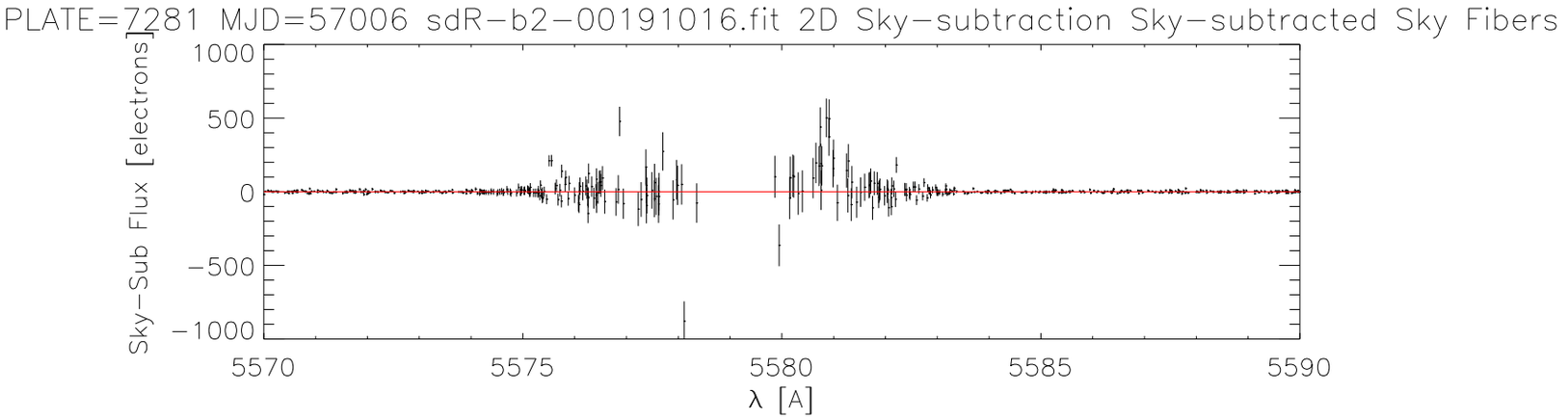

PLATE=7281 MJD=57006 sdR-b2-00191016.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 41

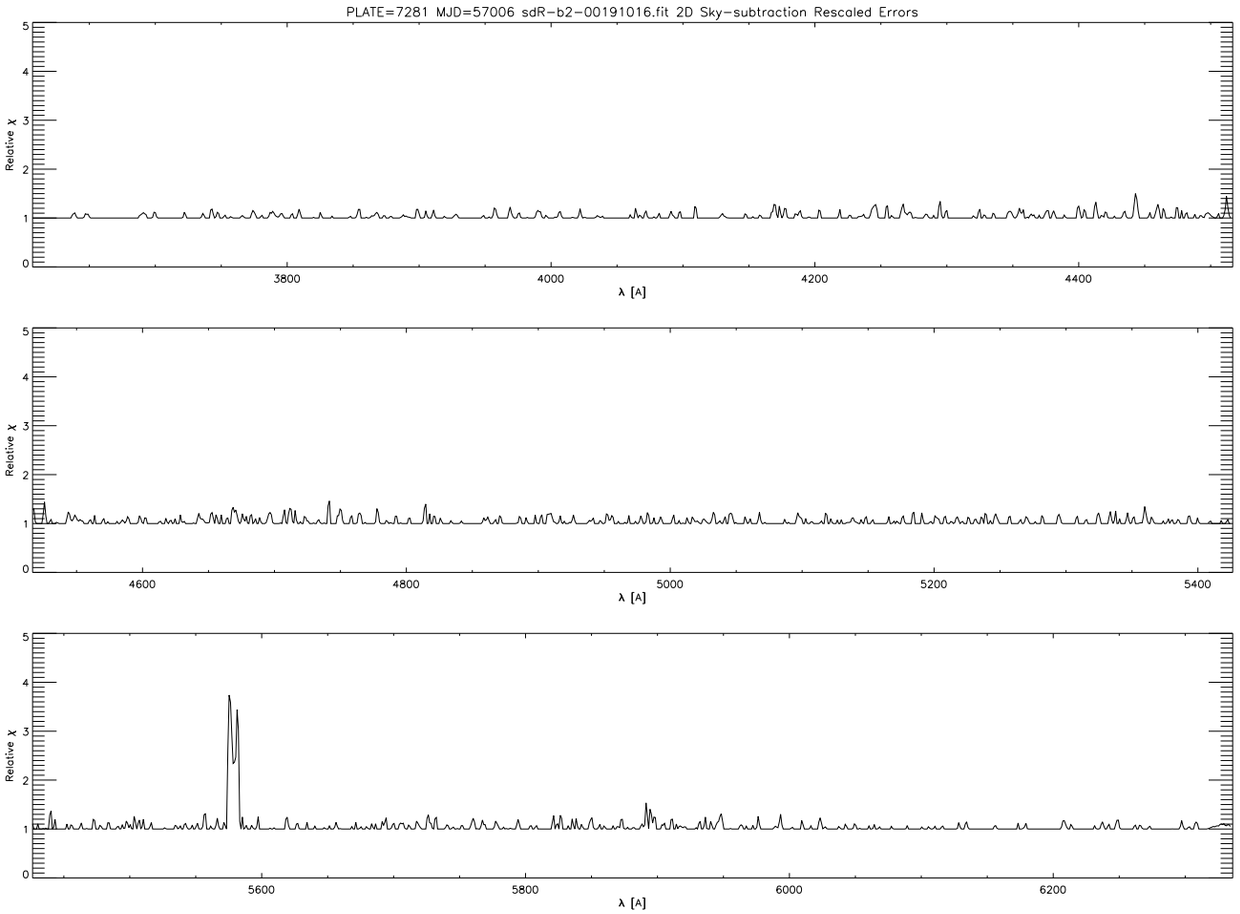


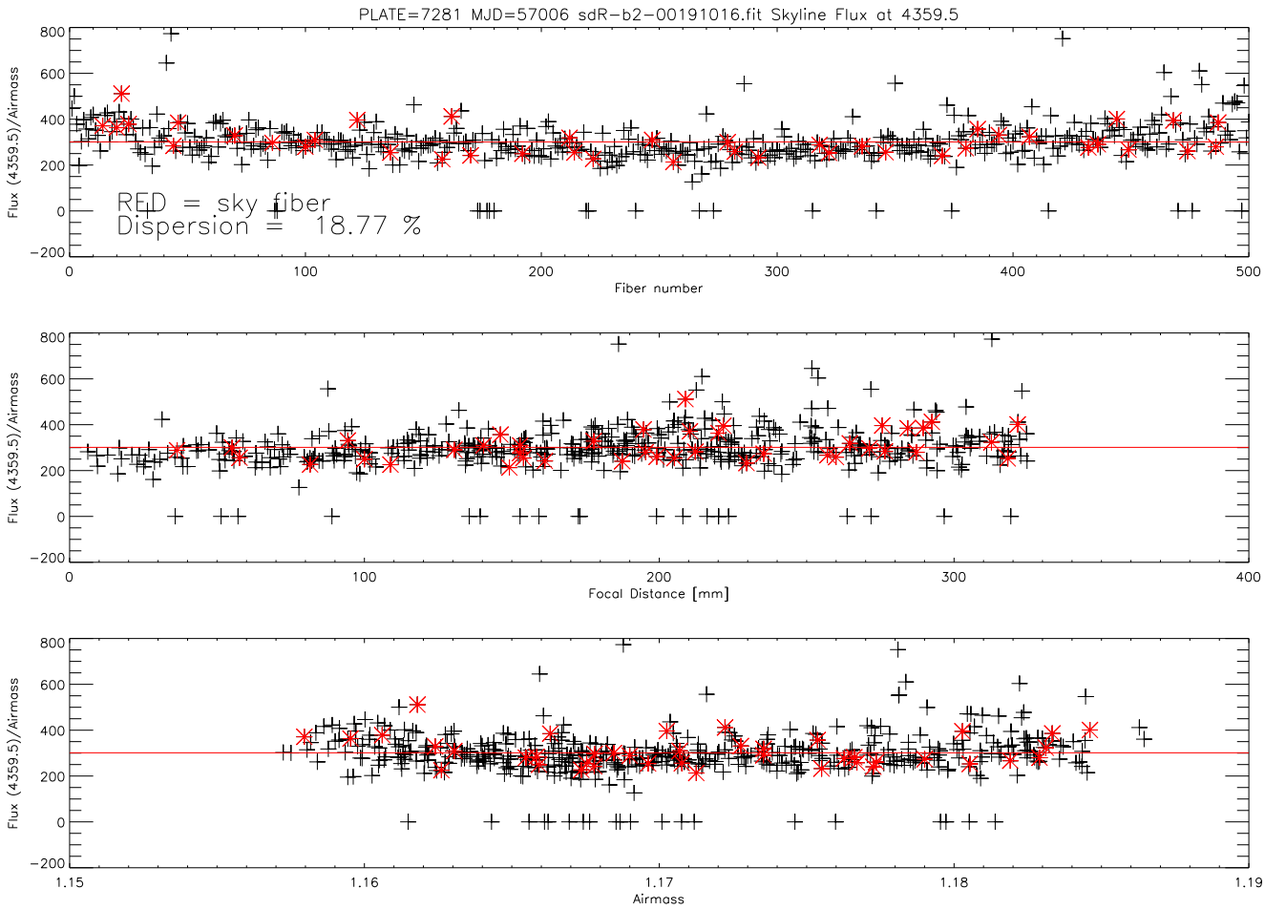

PLATE=7281 MJD=57006 sdR-b2-00191016.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

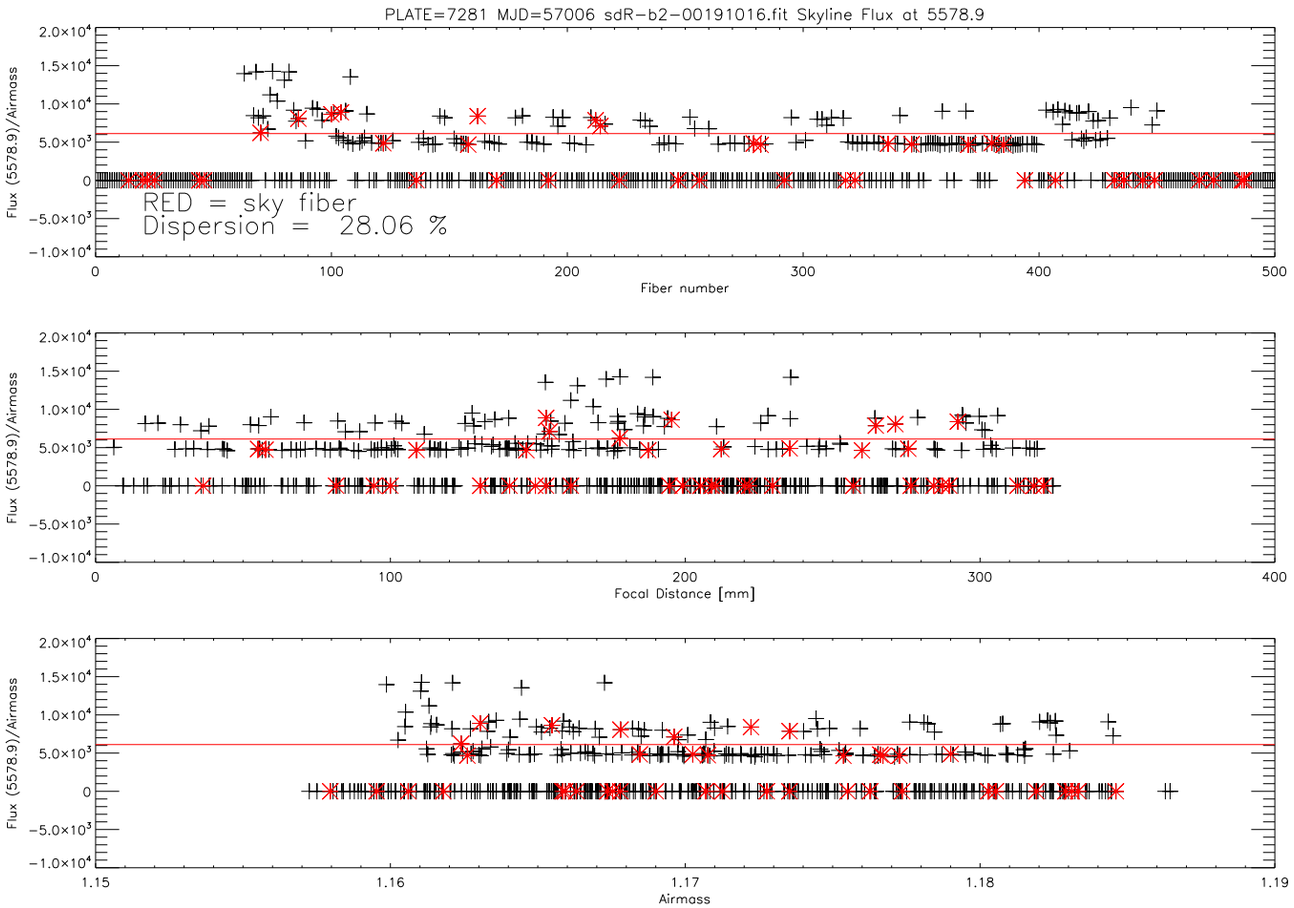

PLATE=7281 MJD=57006 sdR-b2-00191016.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]


PLATE=7281 MJD=57006 sdR-b2-00191016.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
1000
500
0
-500
-1000
5570
5575
5580
5585
5590
λ [A]

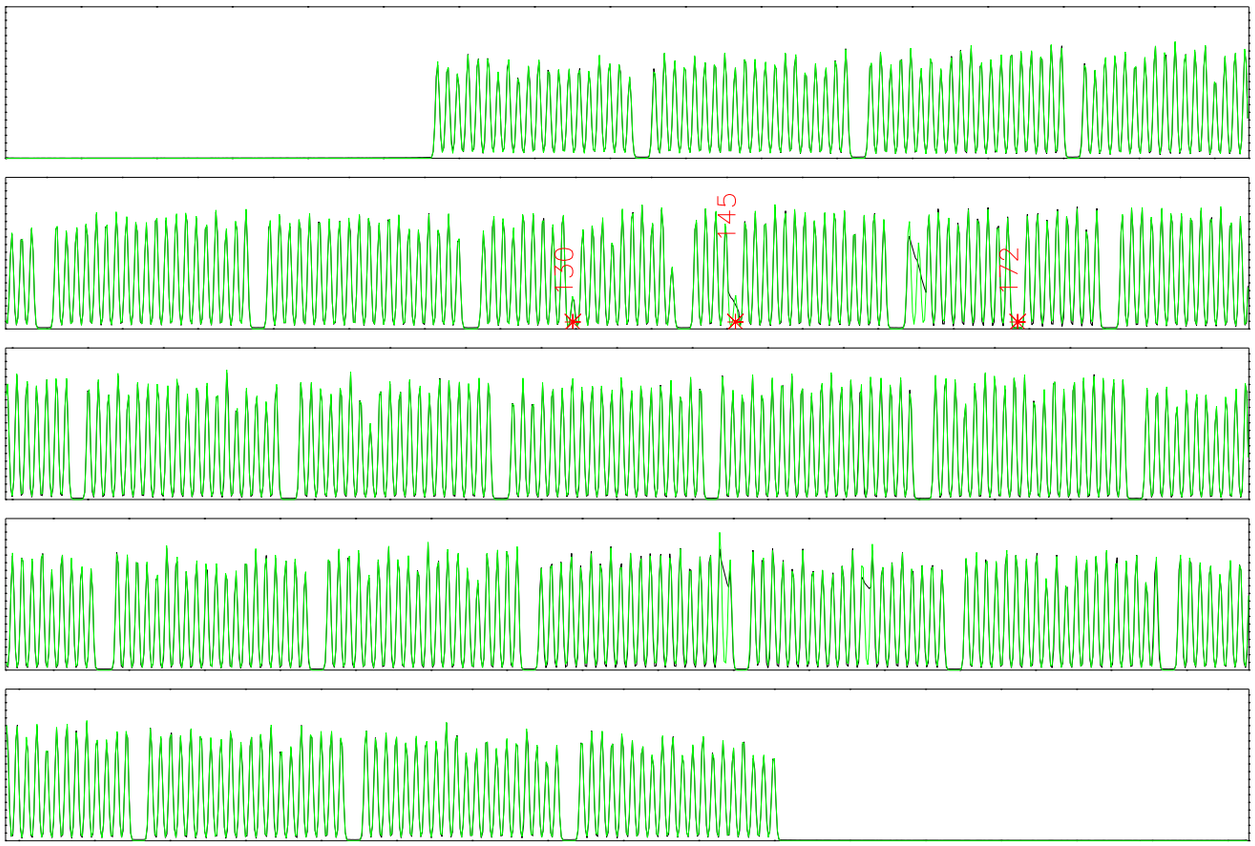
Number of sky fibers = 41

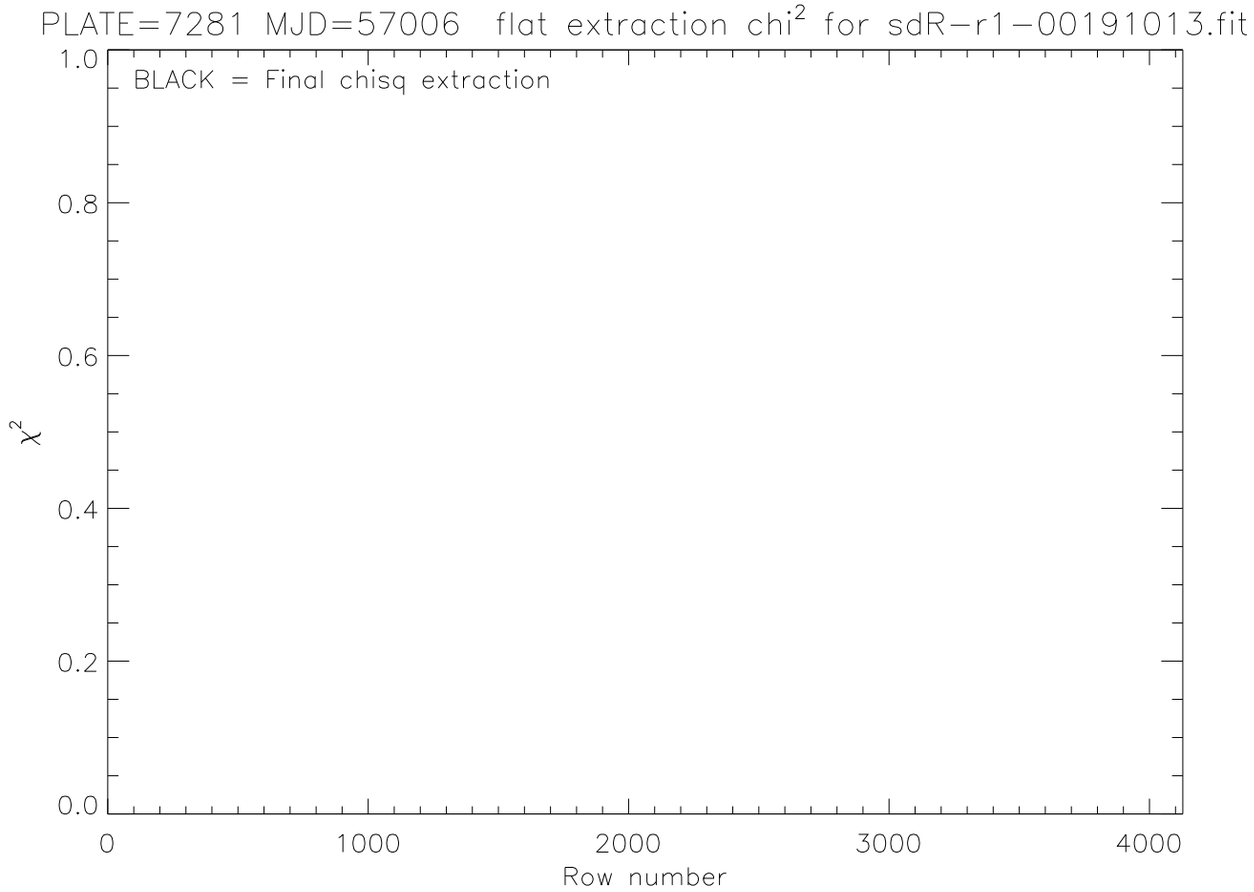


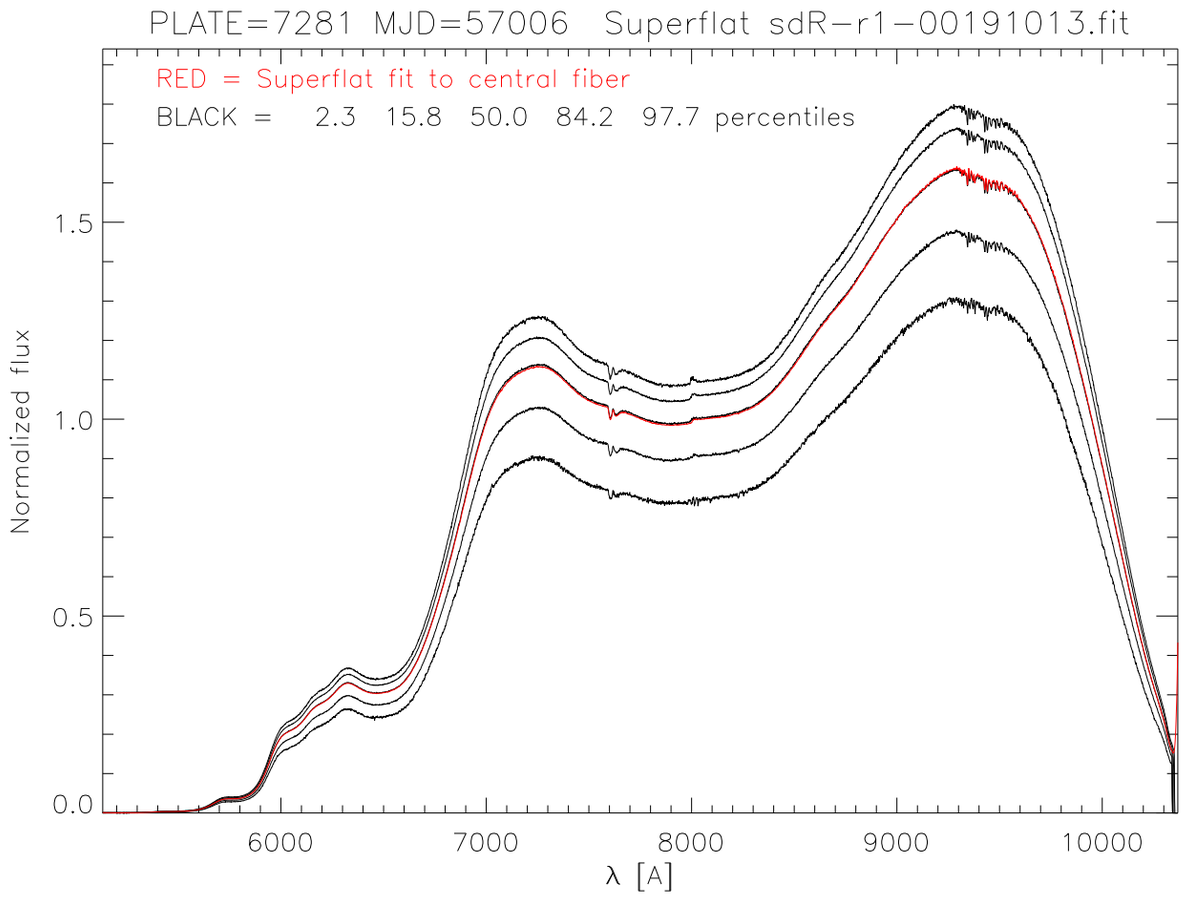

PLATE=7281 MJD=57006 sdR-b2-00191016.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 18.77 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

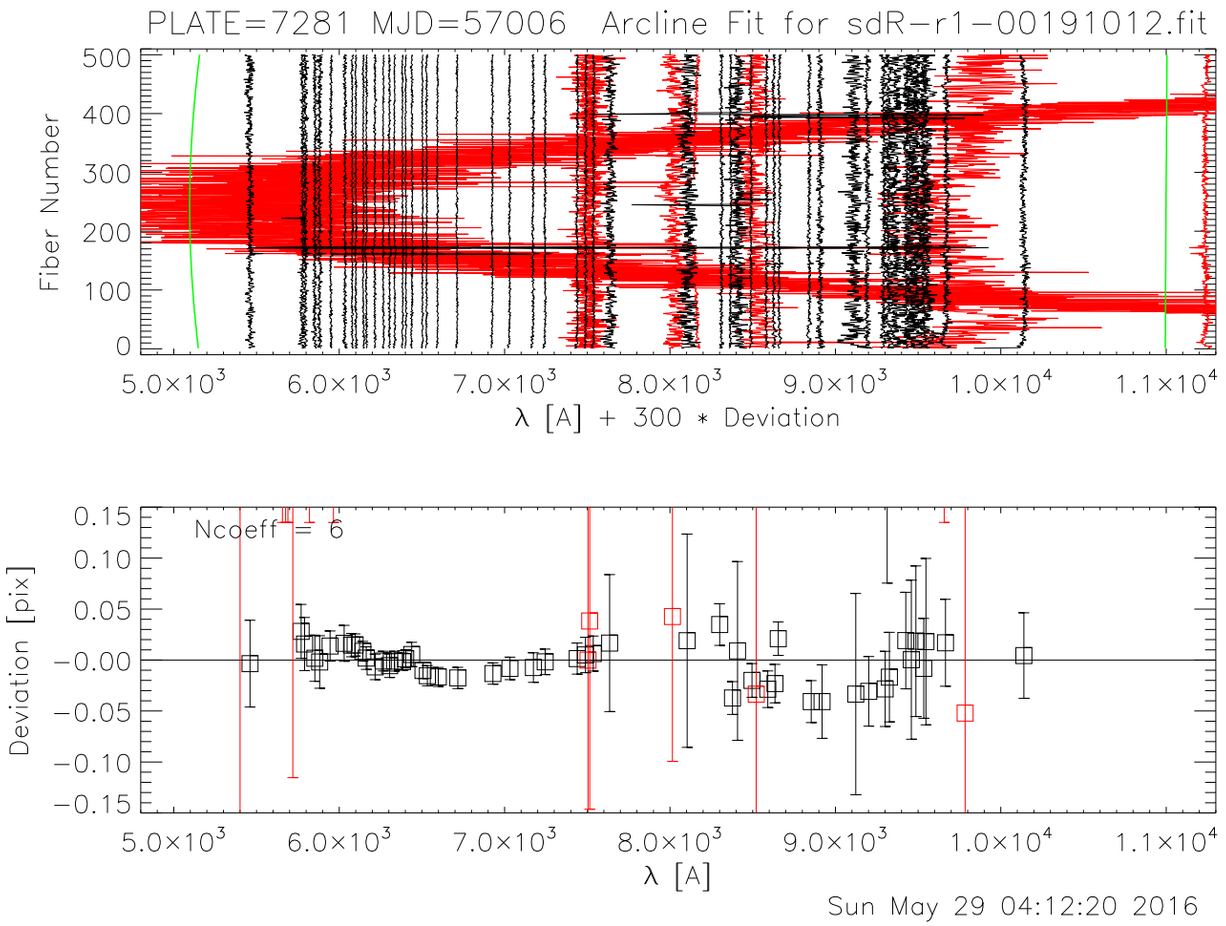

PLATE=7281 MJD=57006 sdR-b2-00191016.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 28.06 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

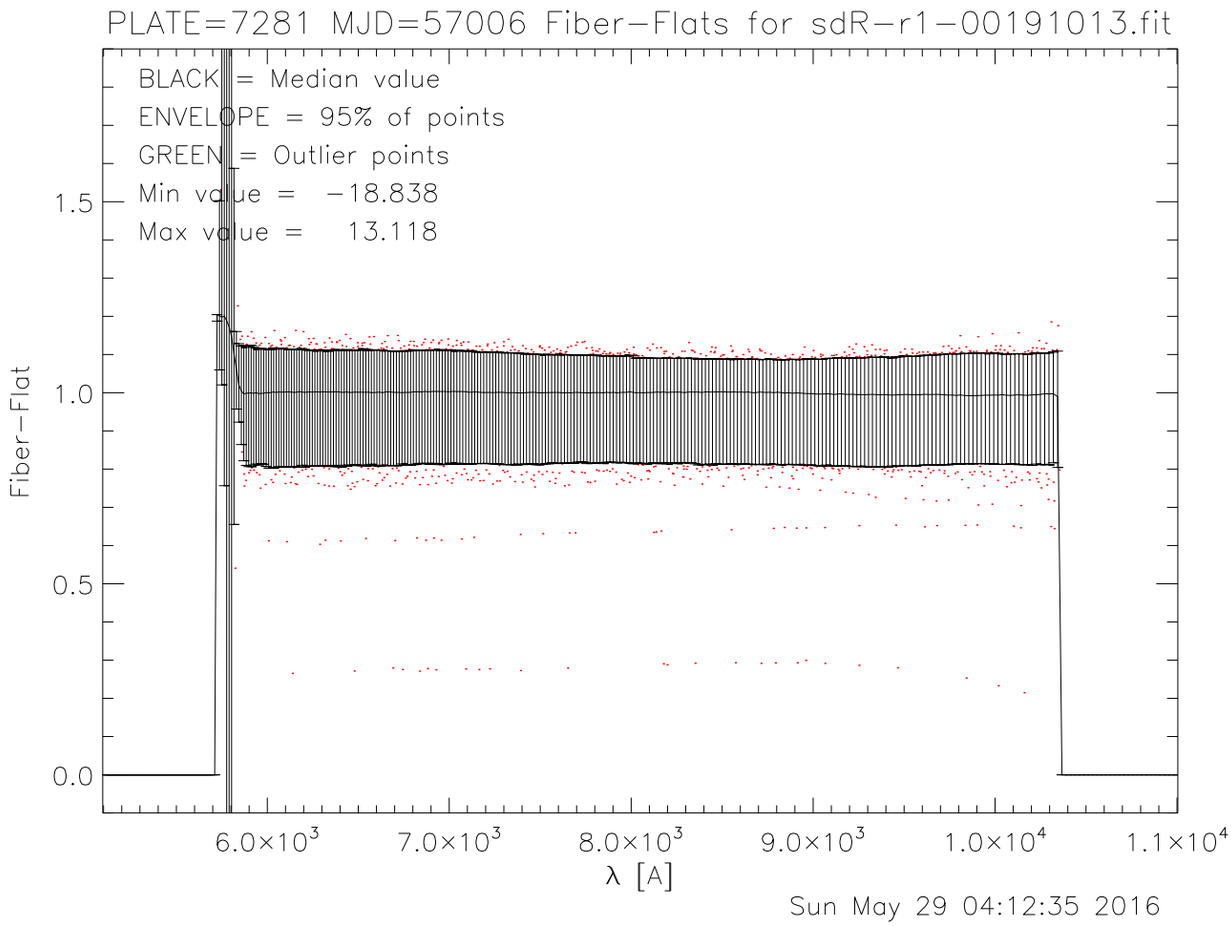
PLATE=7281 MJD=57006 Traces sdR-r1-00191013.fit

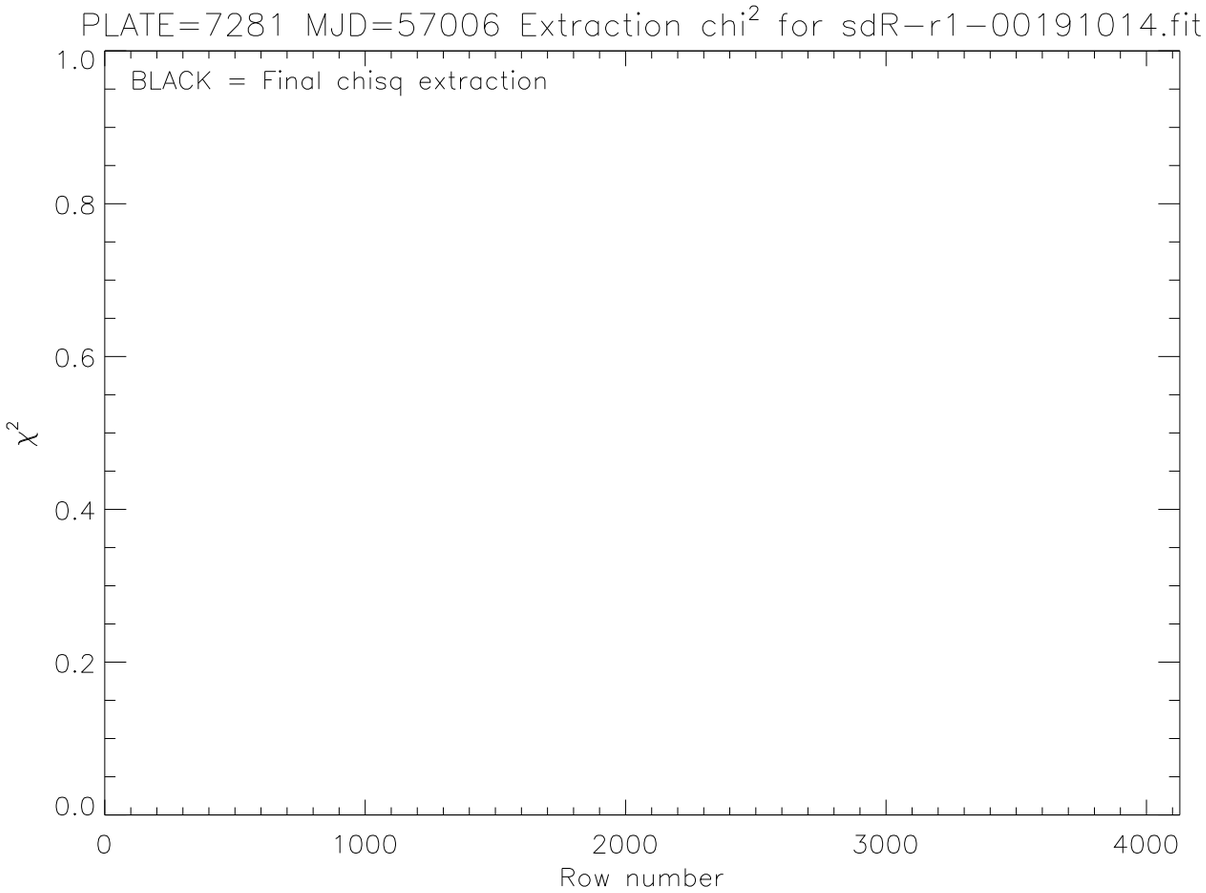


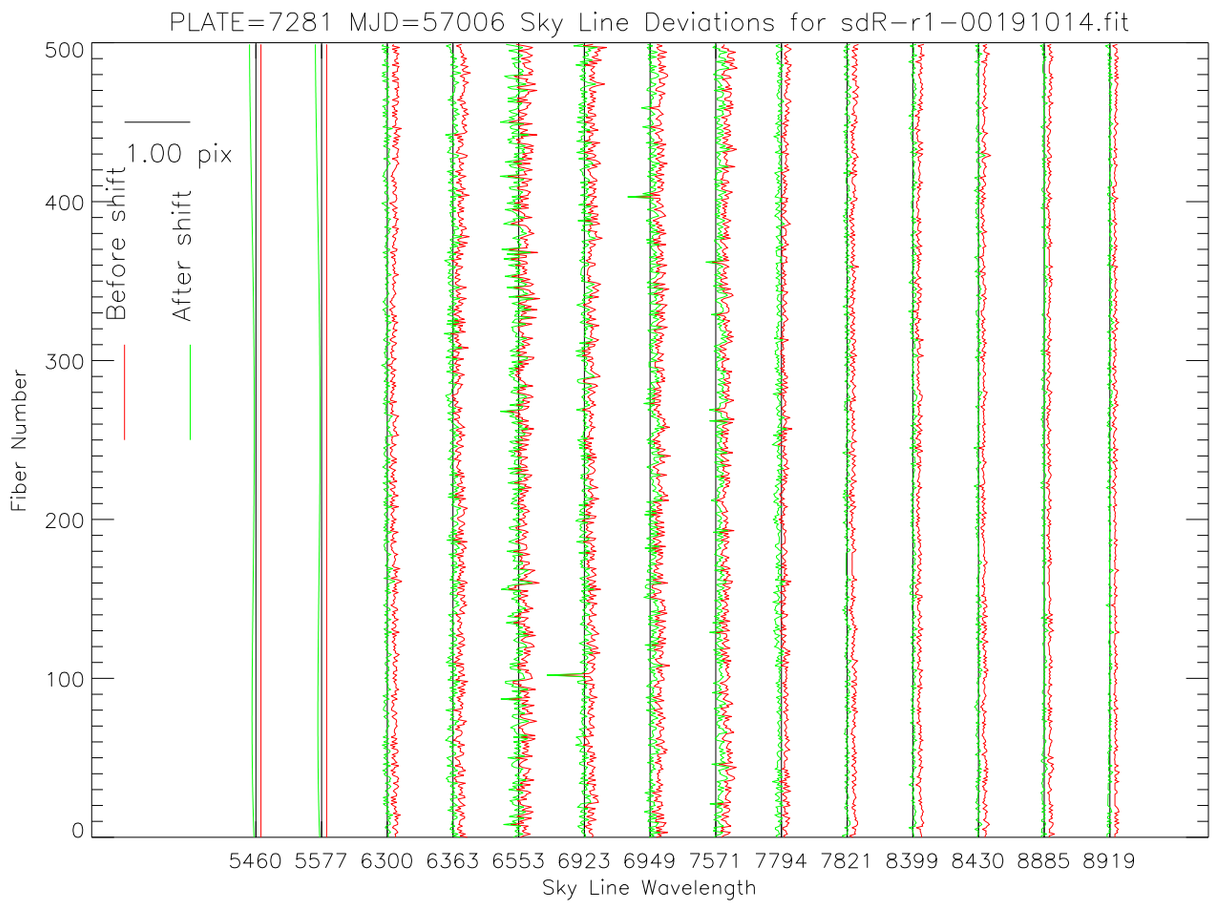

PLATE=7281 MJD=57006 flat extraction chi^2 for sdR-r1-00191013.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number

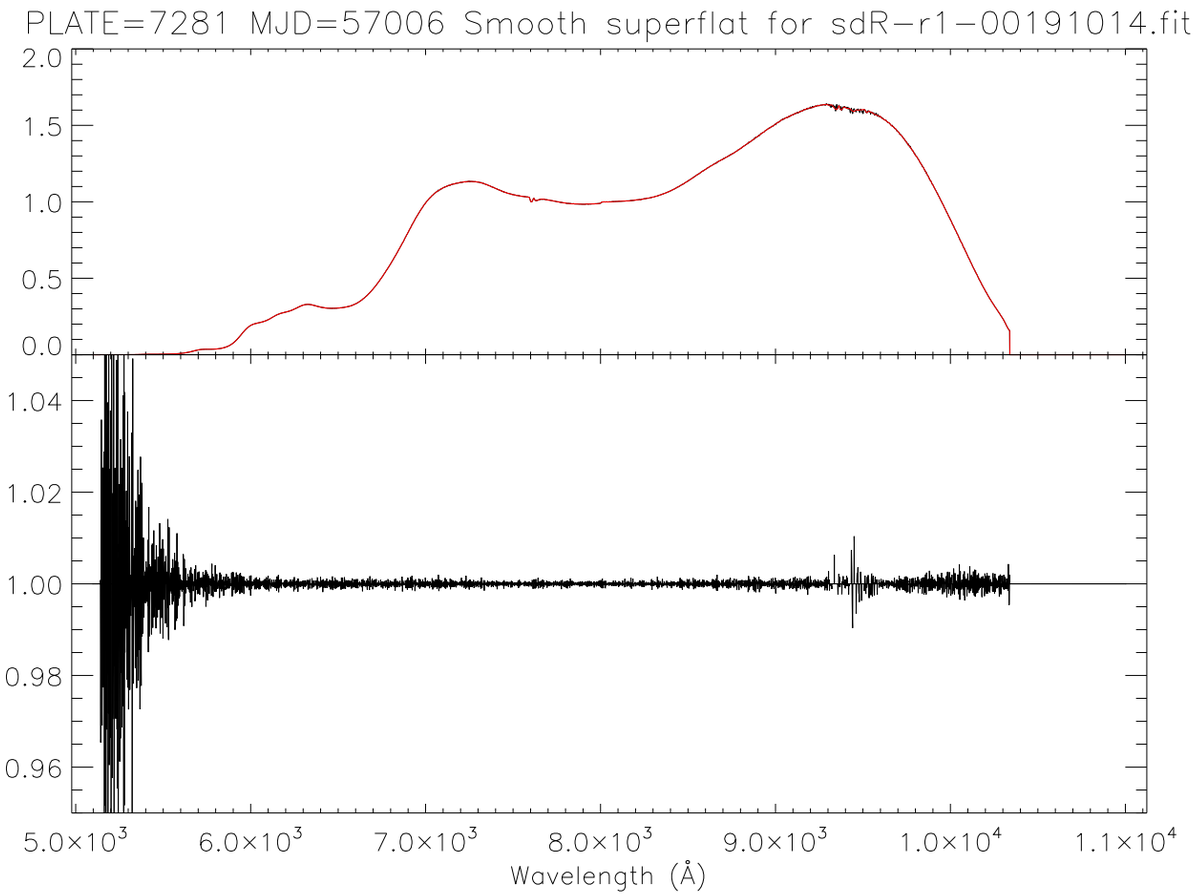

PLATE=7281 MJD=57006 Superflat sdR-r1-00191013.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
0.0
0.5
1.0
1.5
6000
7000
8000
9000
10000
λ [A]

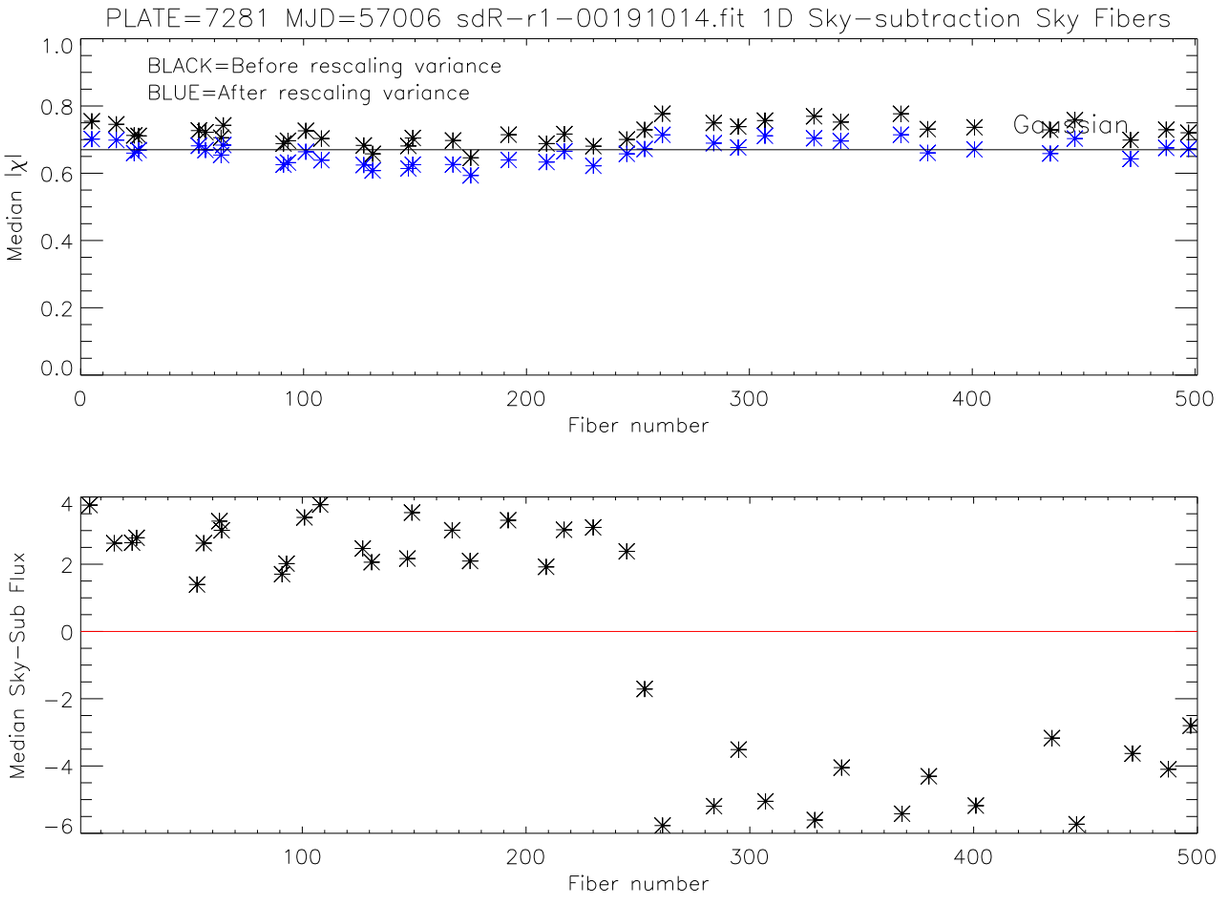

PLATE=7281 MJD=57006 Arcline Fit for sdR-r1-00191012.fit
Fiber Number
500
400
300
200
100
0
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A] + 300 * Deviation
Ncoeff = 6
Deviation [pix]
0.15
0.10
0.05
−0.00
−0.05
−0.10
−0.15
λ [A]
Sun May 29 04:12:20 2016

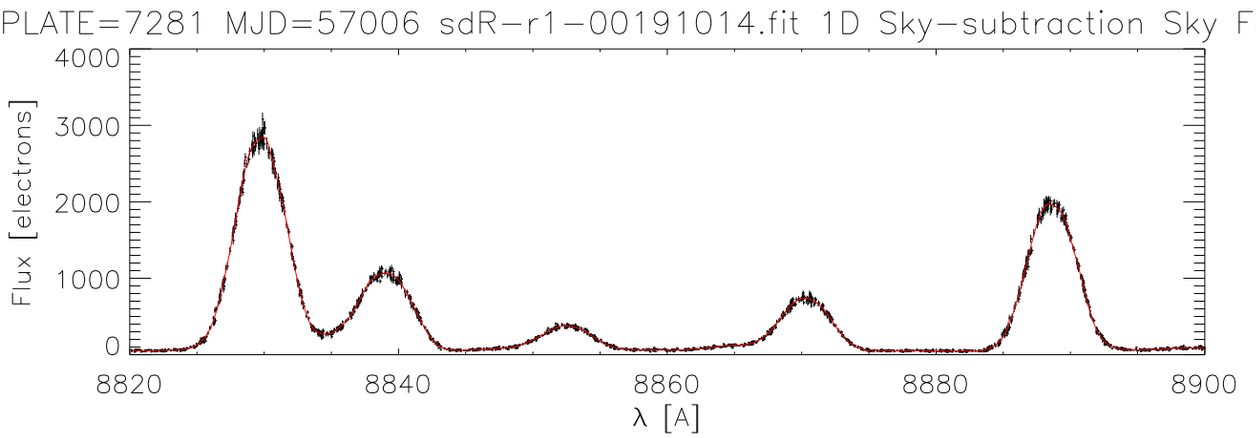

PLATE=7281 MJD=57006 Fiber-Flats for sdR-r1-00191013.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = -18.838
Max value = 13.118
Fiber-Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Sun May 29 04:12:35 2016

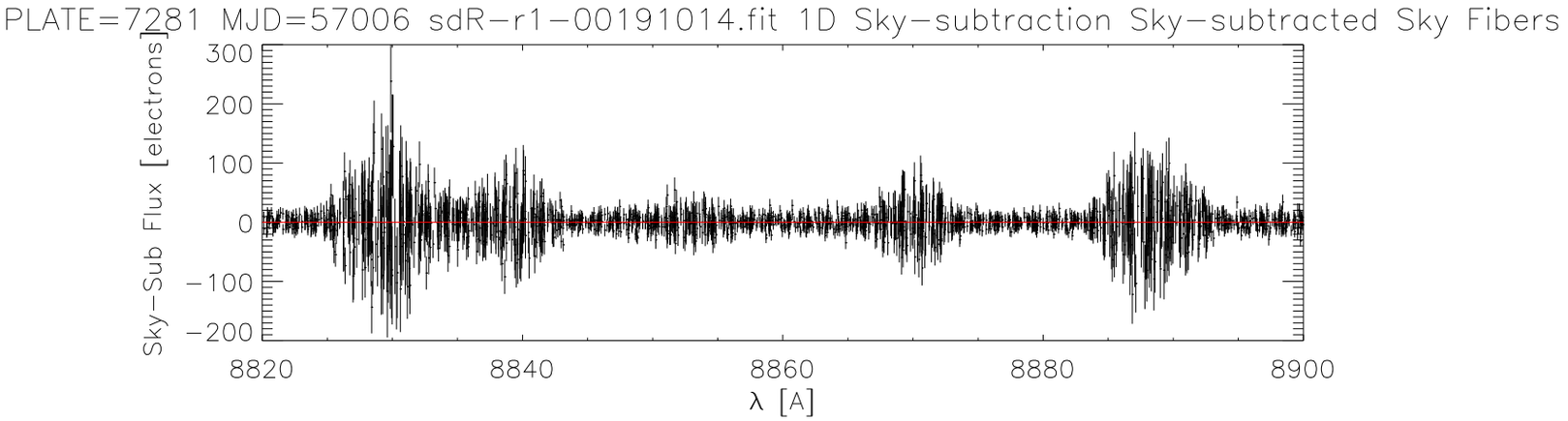

PLATE=7281 MJD=57006 Extraction chi^2 for sdR-r1-00191014.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=7281 MJD=57006 Sky Line Deviations for sdR-r1-00191014.fit
1.00 pix
Before shift
After shift
Fiber Number
500
400
300
200
100
0
5460 5577 6300 6363 6553 6923 6949 7571 7794 7821 8399 8430 8885 8919
Sky Line Wavelength

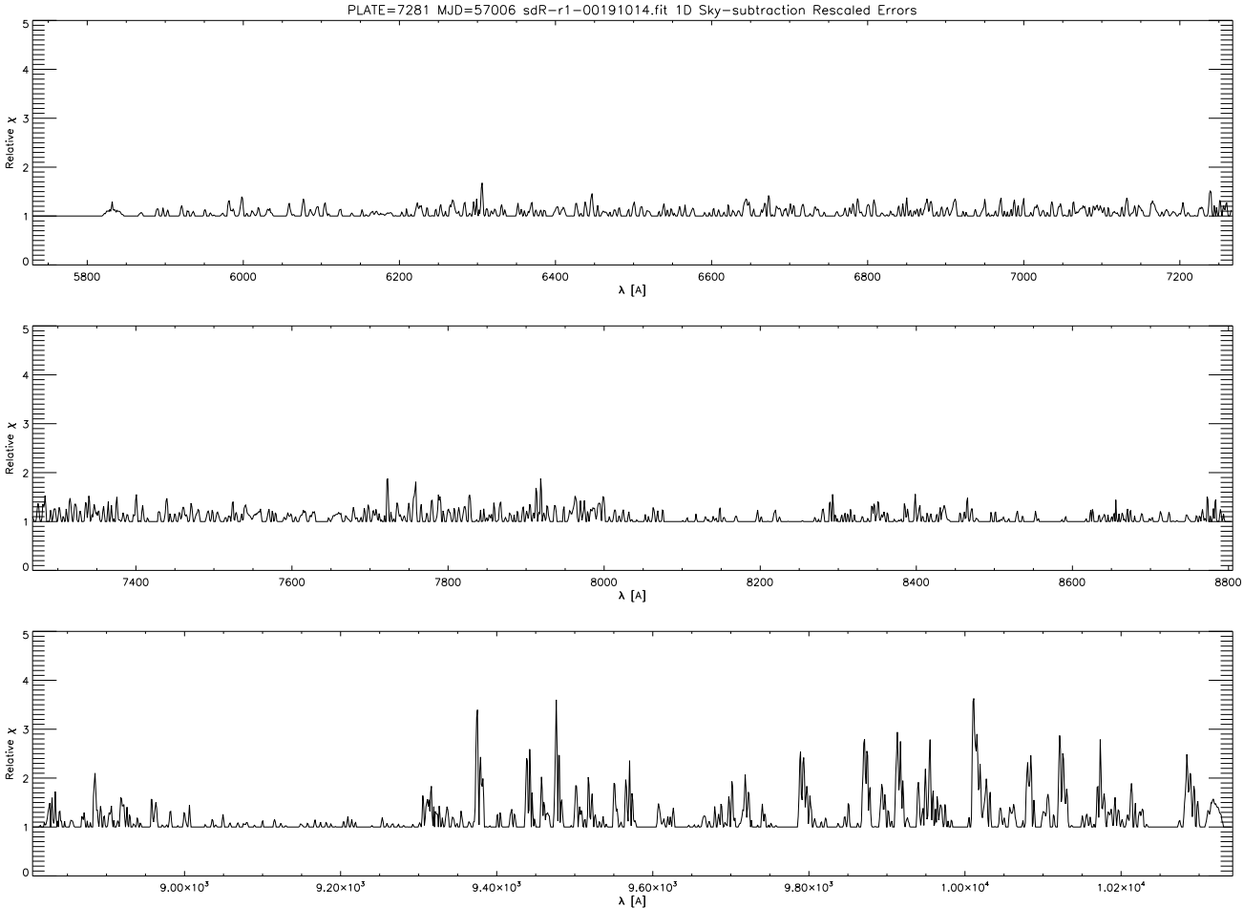

PLATE=7281 MJD=57006 Smooth superflat for sdR-r1-00191014.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

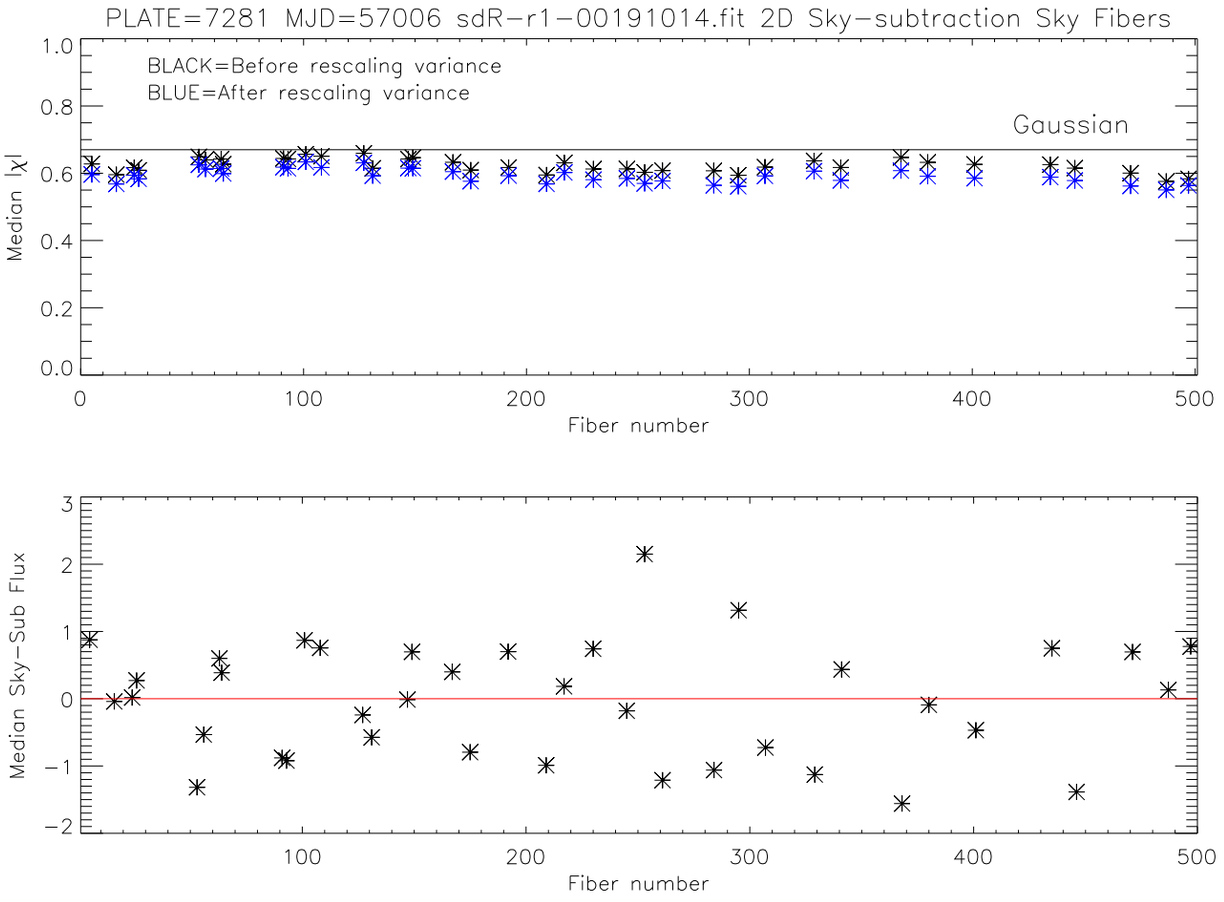

PLATE=7281 MJD=57006 sdR-r1-00191014.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

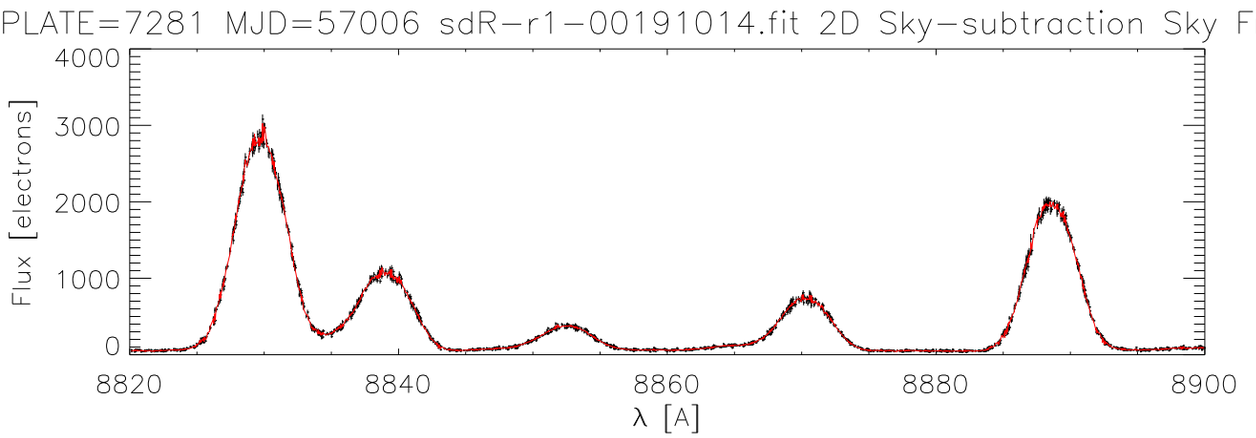

PLATE=7281 MJD=57006 sdR-r1-00191014.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

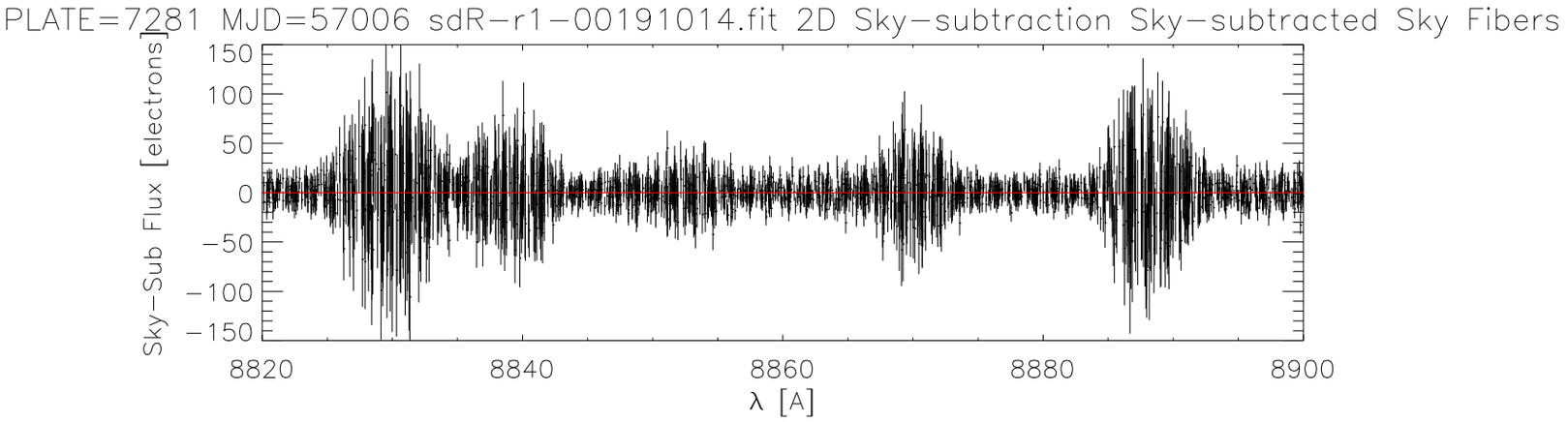

PLATE=7281 MJD=57006 sdR-r1-00191014.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 38

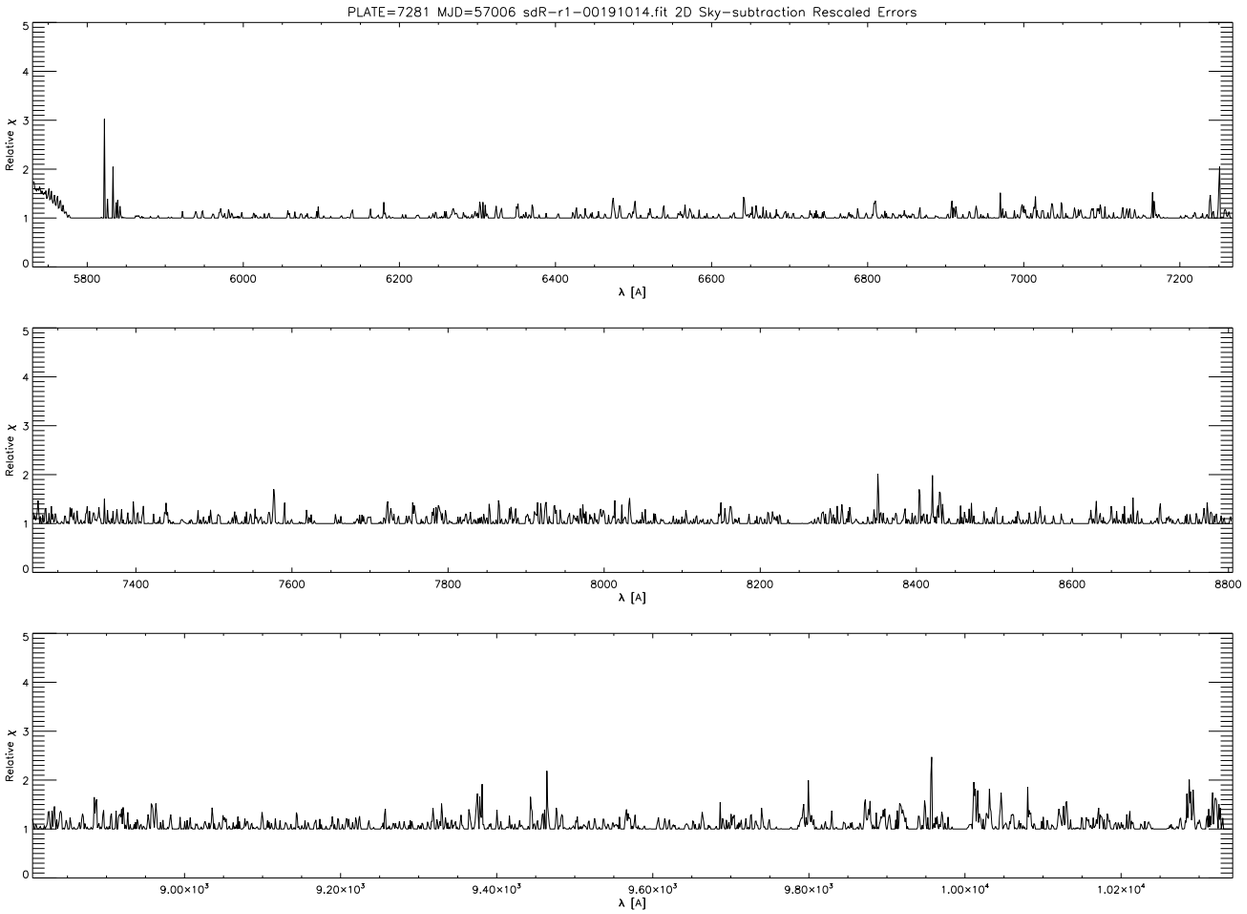


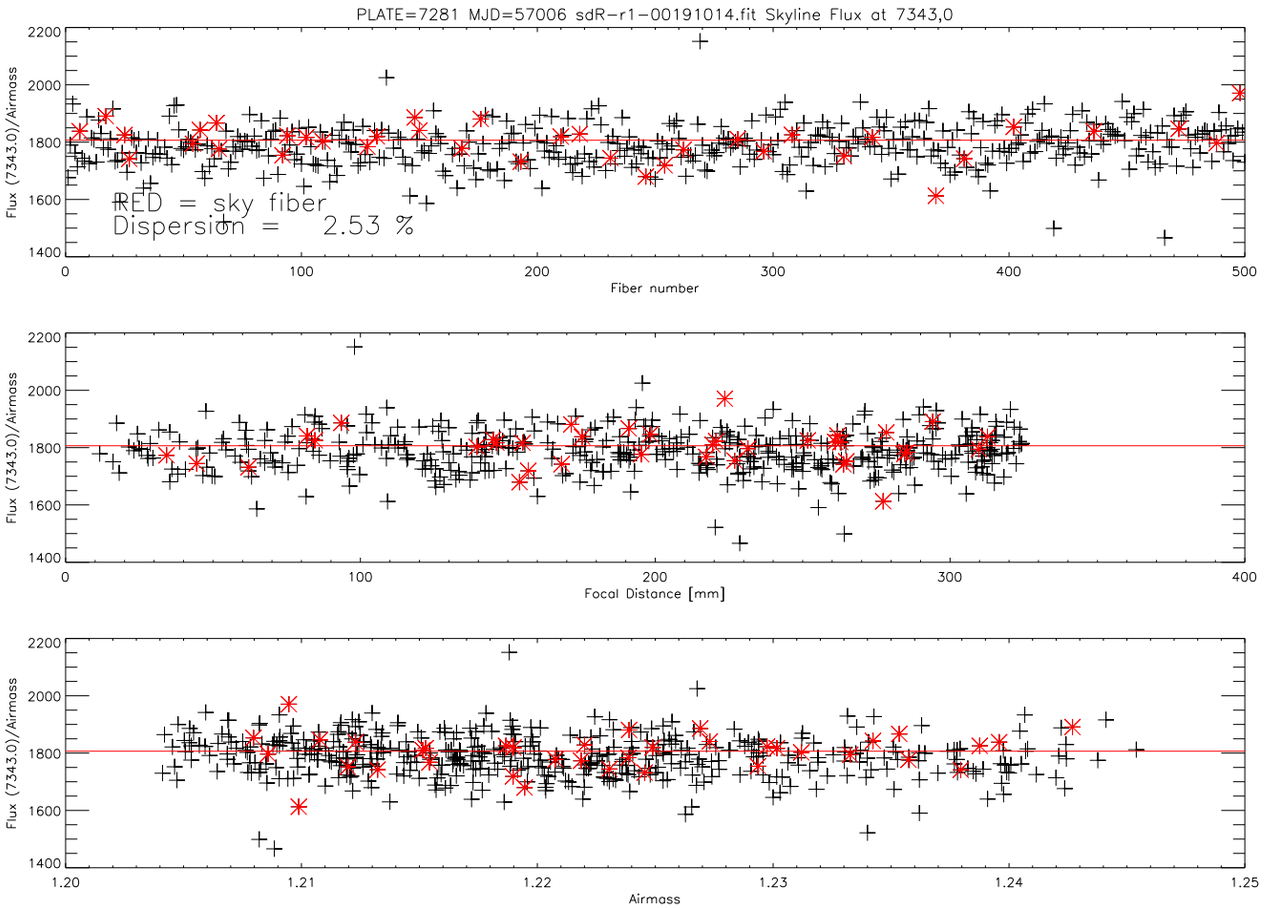

PLATE=7281 MJD=57006 sdR-r1-00191014.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

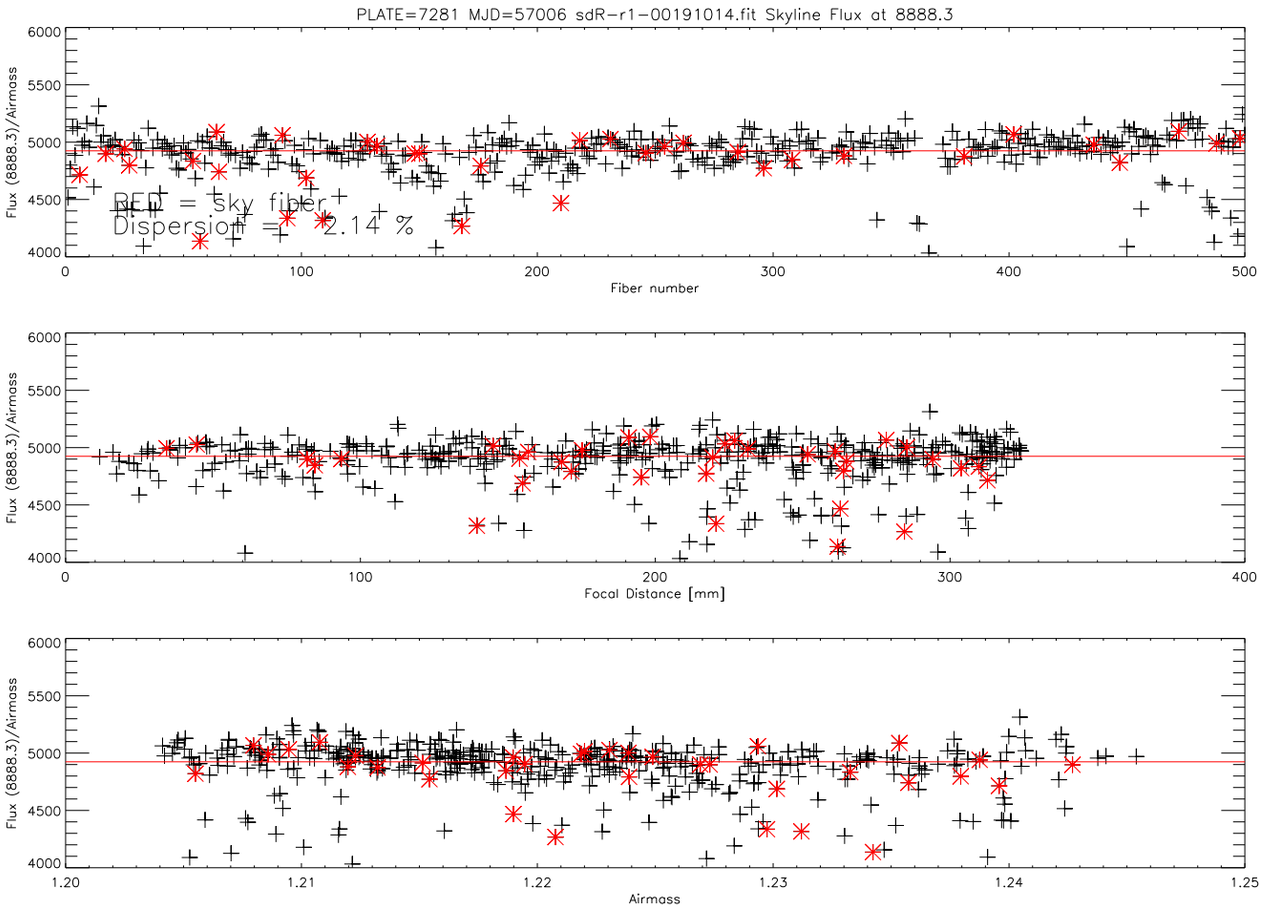

PLATE=7281 MJD=57006 sdR-r1-00191014.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

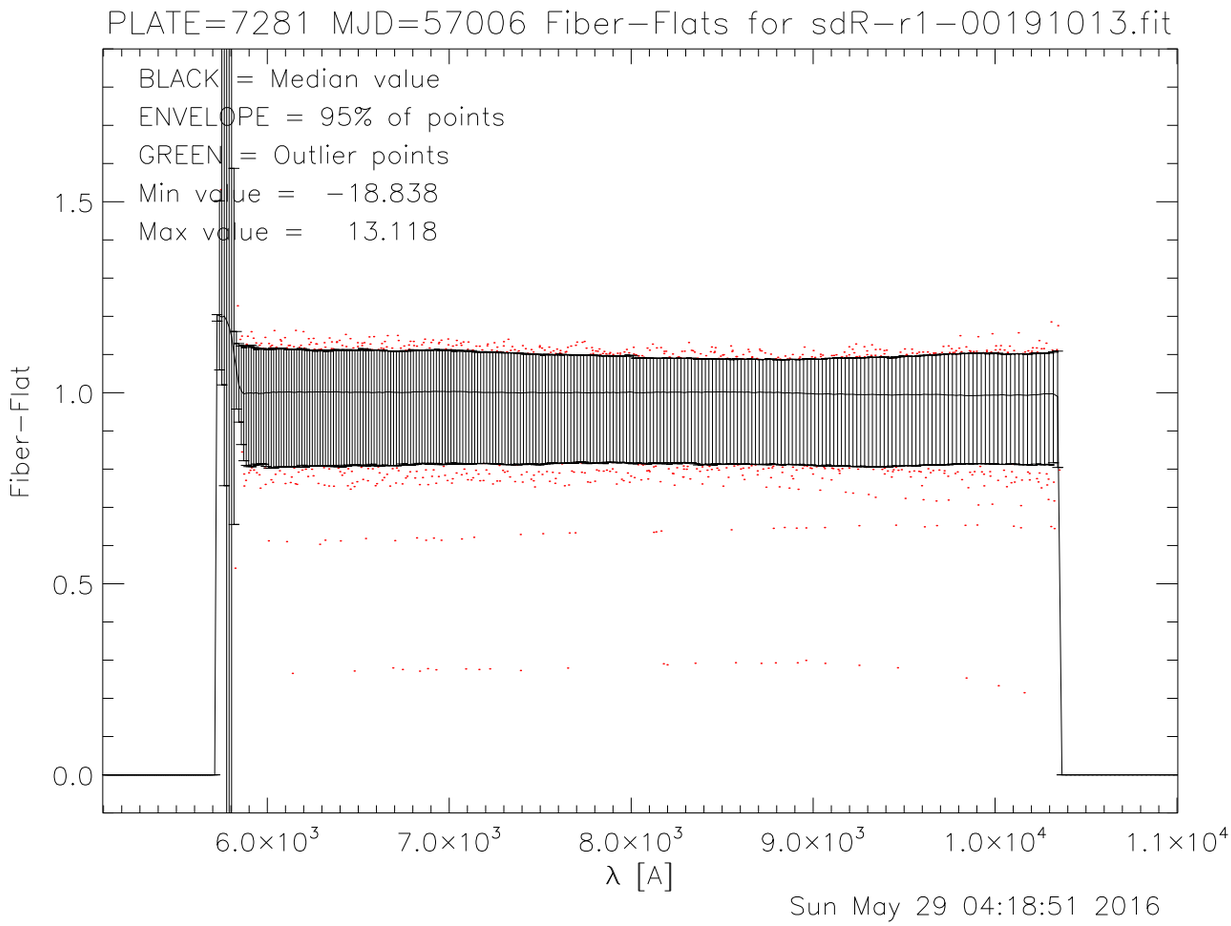

PLATE=7281 MJD=57006 sdR-r1-00191014.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
150
100
50
0
−50
−100
−150
8820
8840
8860
8880
8900
λ [A]

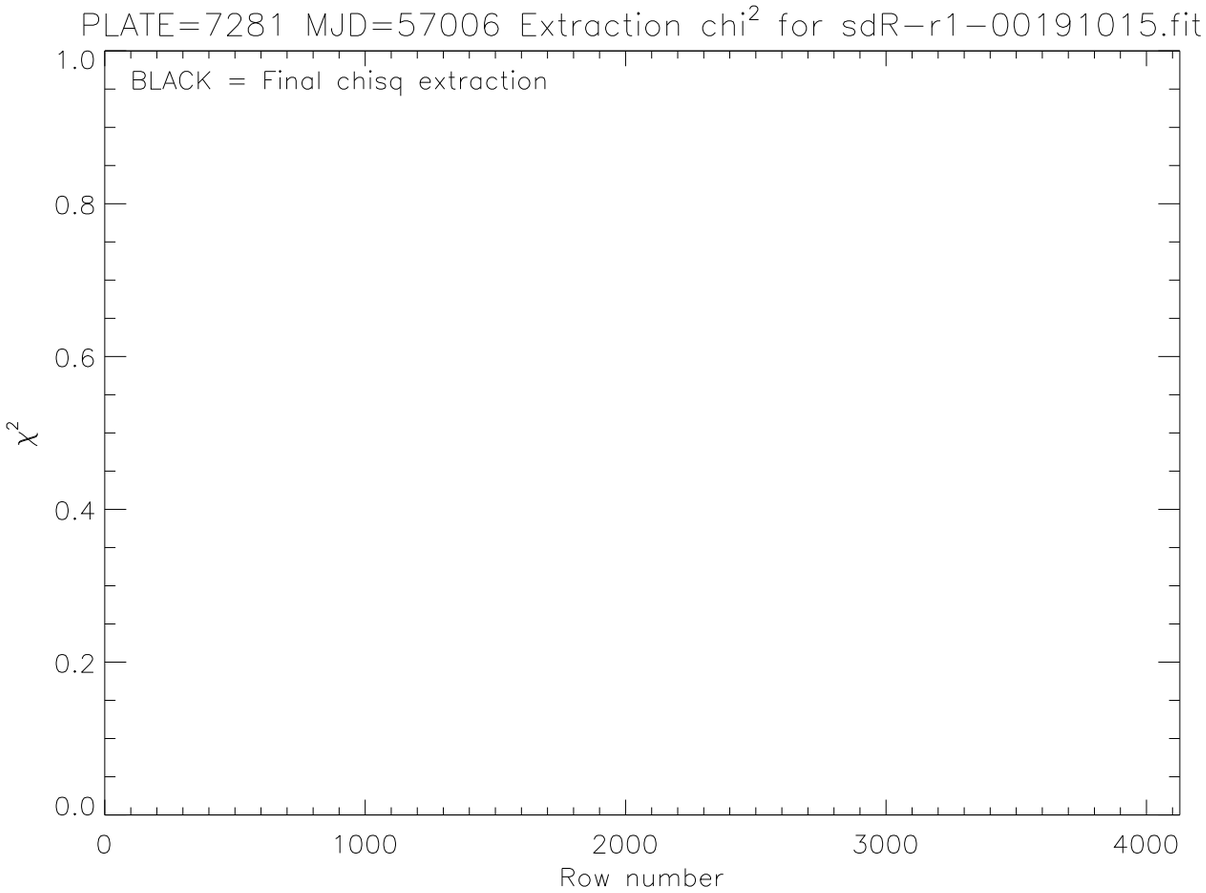
Number of sky fibers = 38

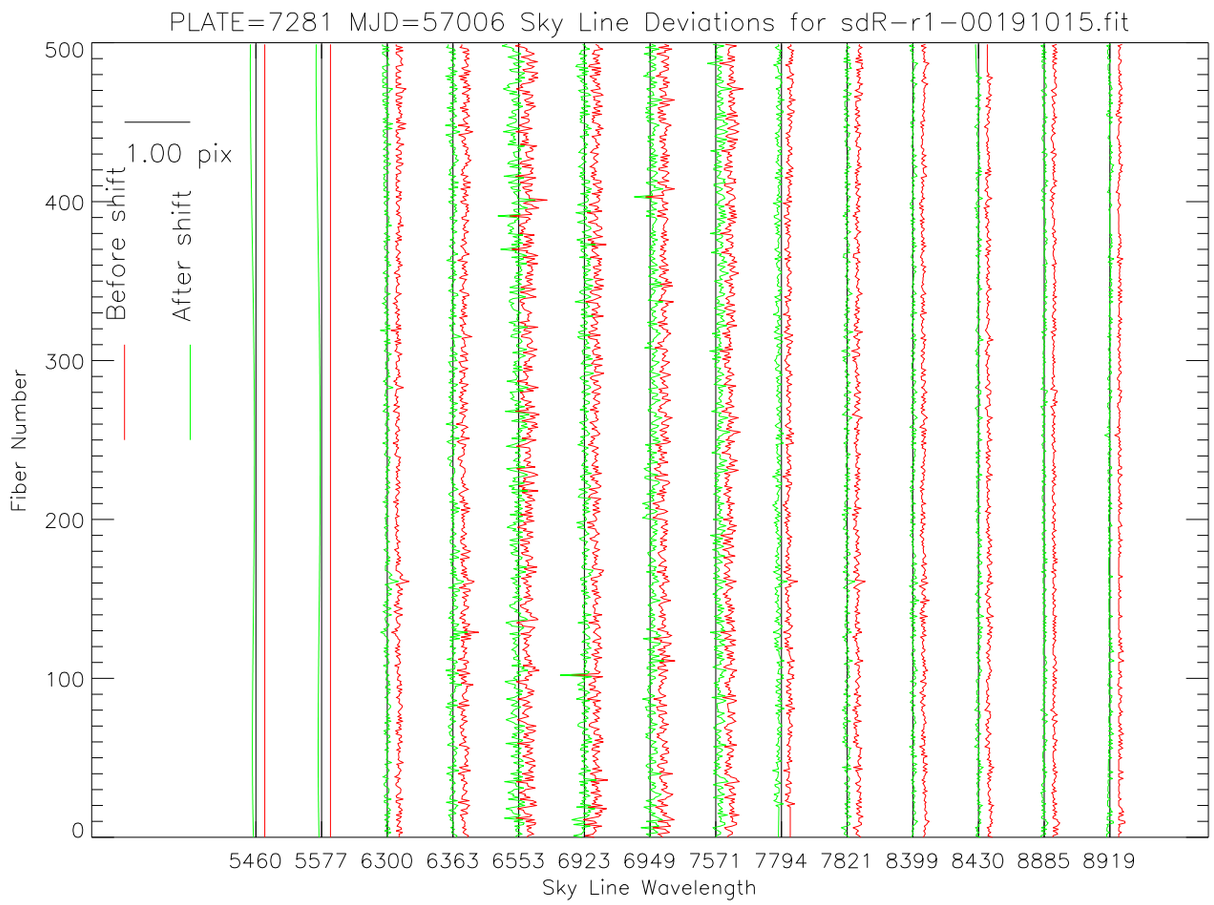


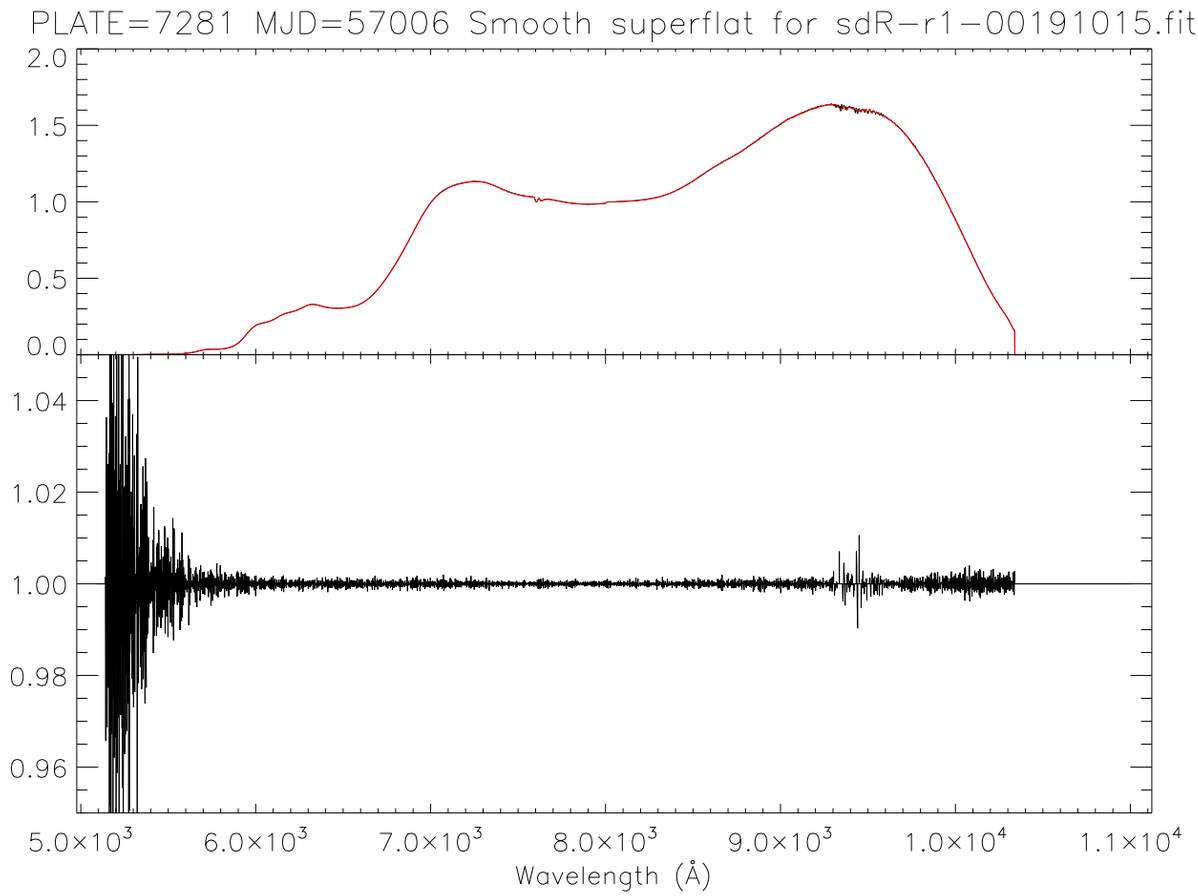

PLATE=7281 MJD=57006 sdR-r1-00191014.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.53 %
Focal Distance [mm]
Airmass

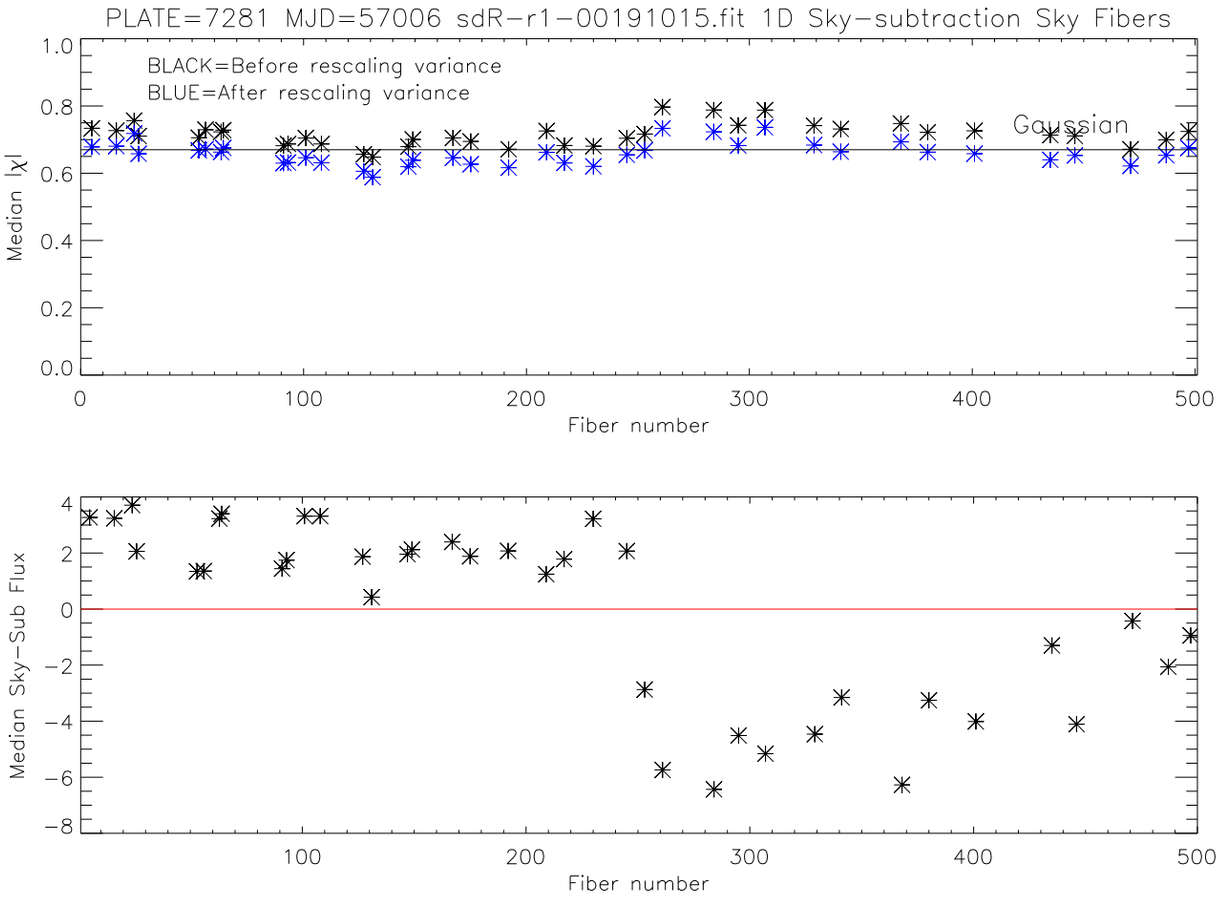

PLATE=7281 MJD=57006 sdR-r1-00191014.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
Red = Sky fiber
Dispersion = 2.14 %
Focal Distance [mm]
Airmass

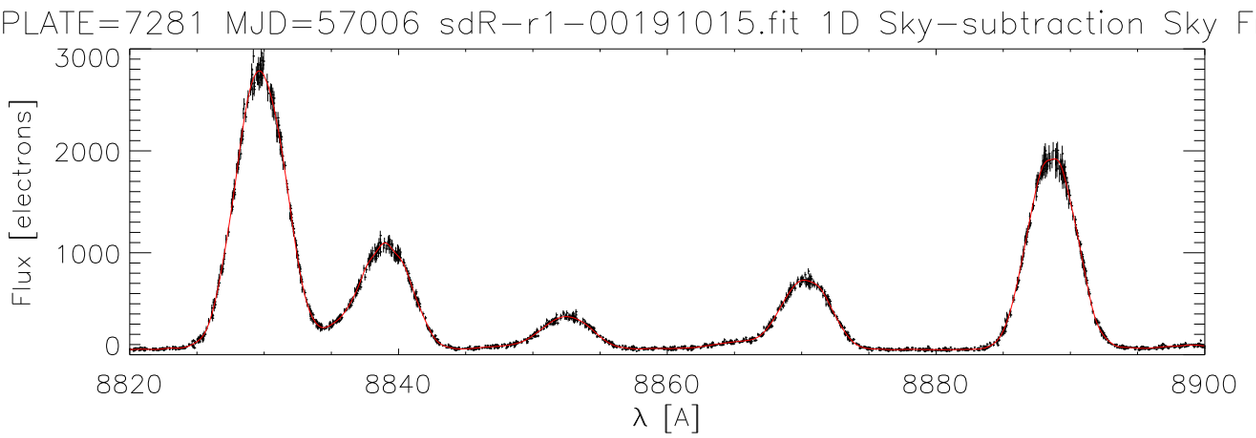

PLATE=7281 MJD=57006 Fiber-Flats for sdR-r1-00191013.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = -18.838
Max value = 13.118
Fiber-Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Sun May 29 04:18:51 2016

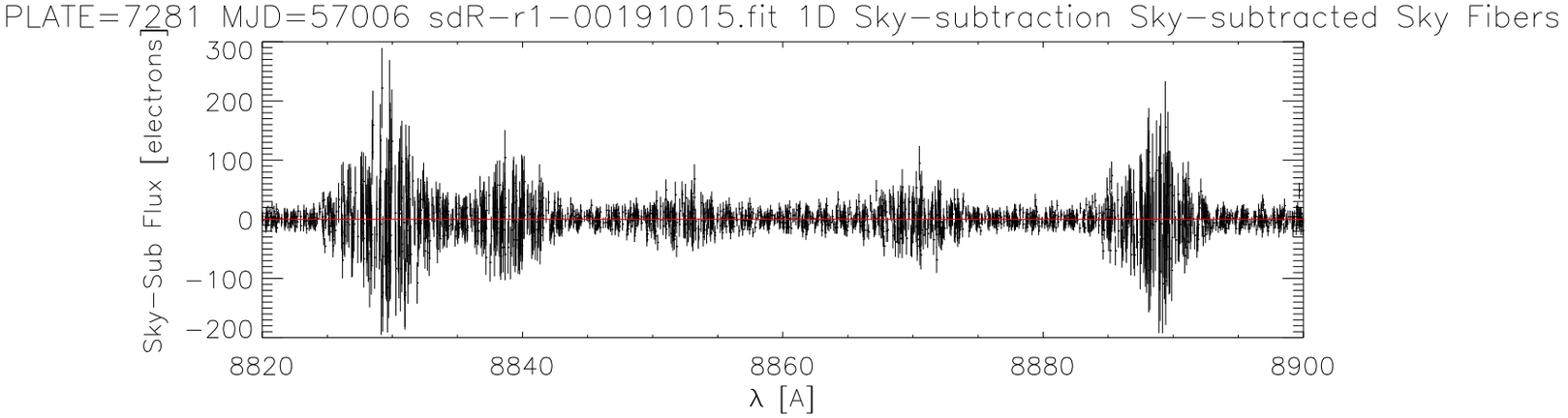

PLATE=7281 MJD=57006 Extraction chi^2 for sdR-r1-00191015.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=7281 MJD=57006 Sky Line Deviations for sdR-r1-00191015.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

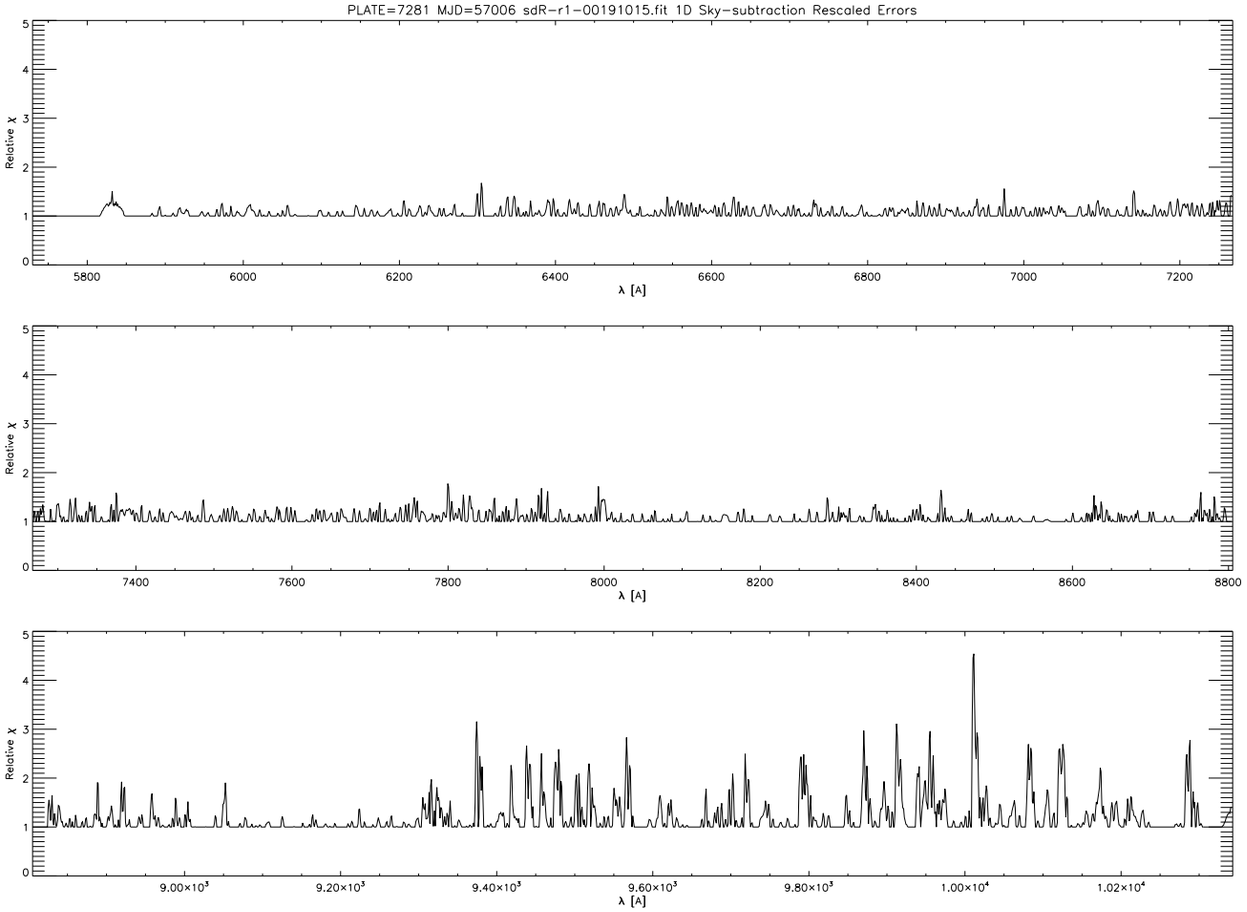

PLATE=7281 MJD=57006 Smooth superflat for sdR-r1-00191015.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

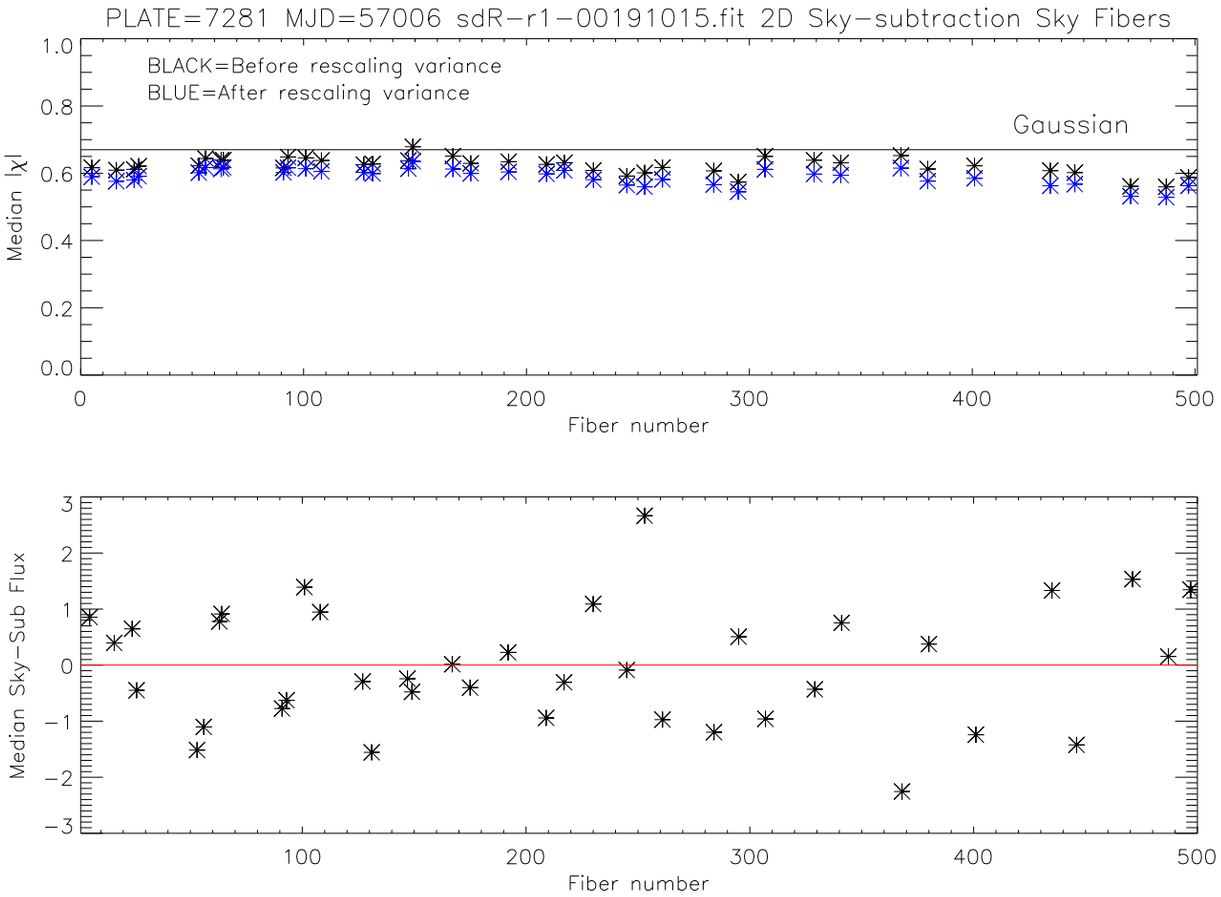

PLATE=7281 MJD=57006 sdR-r1-00191015.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

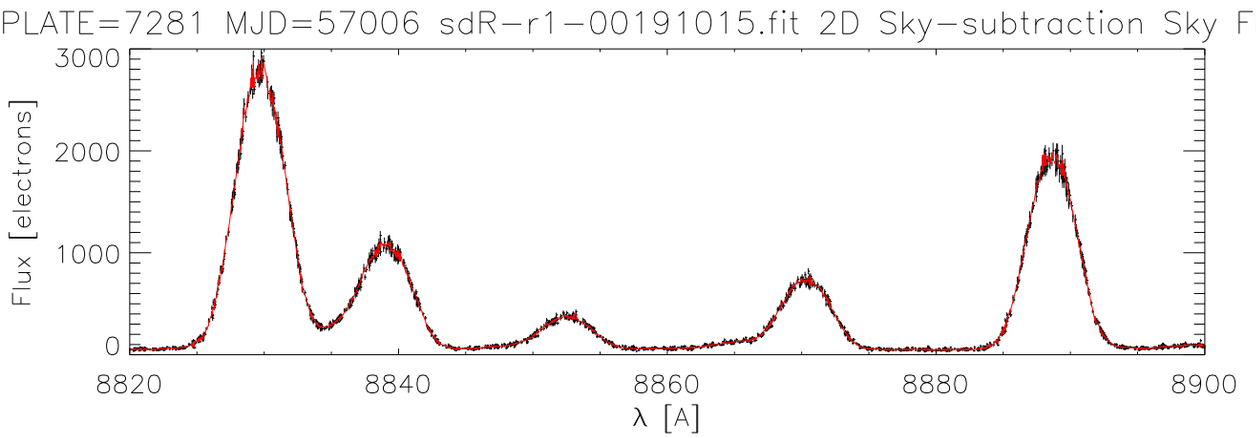

PLATE=7281 MJD=57006 sdR-r1-00191015.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

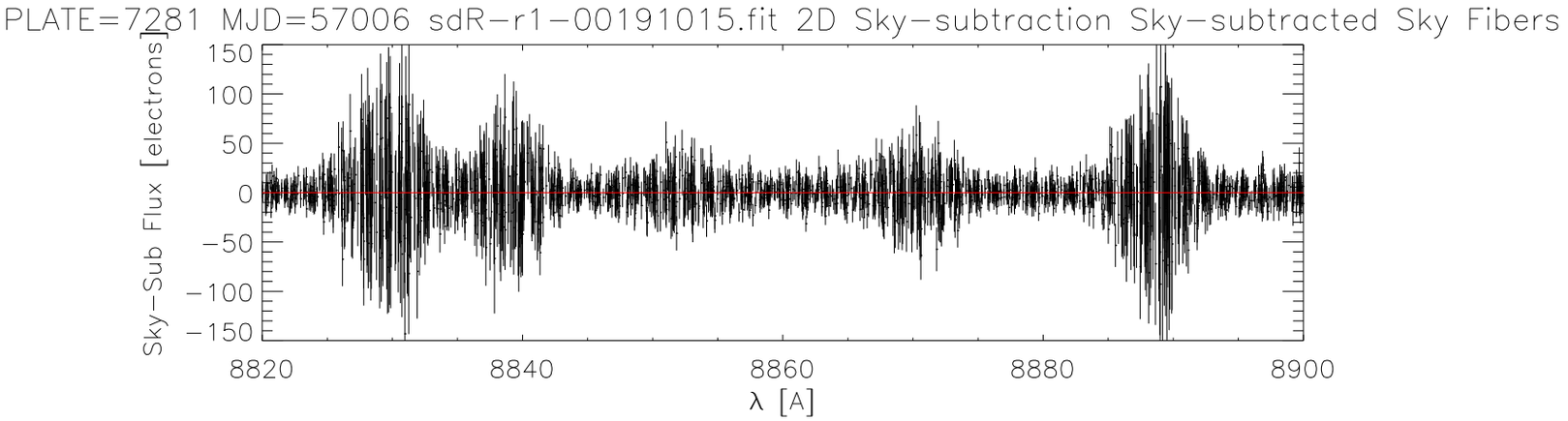

PLATE=7281 MJD=57006 sdR-r1-00191015.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 38

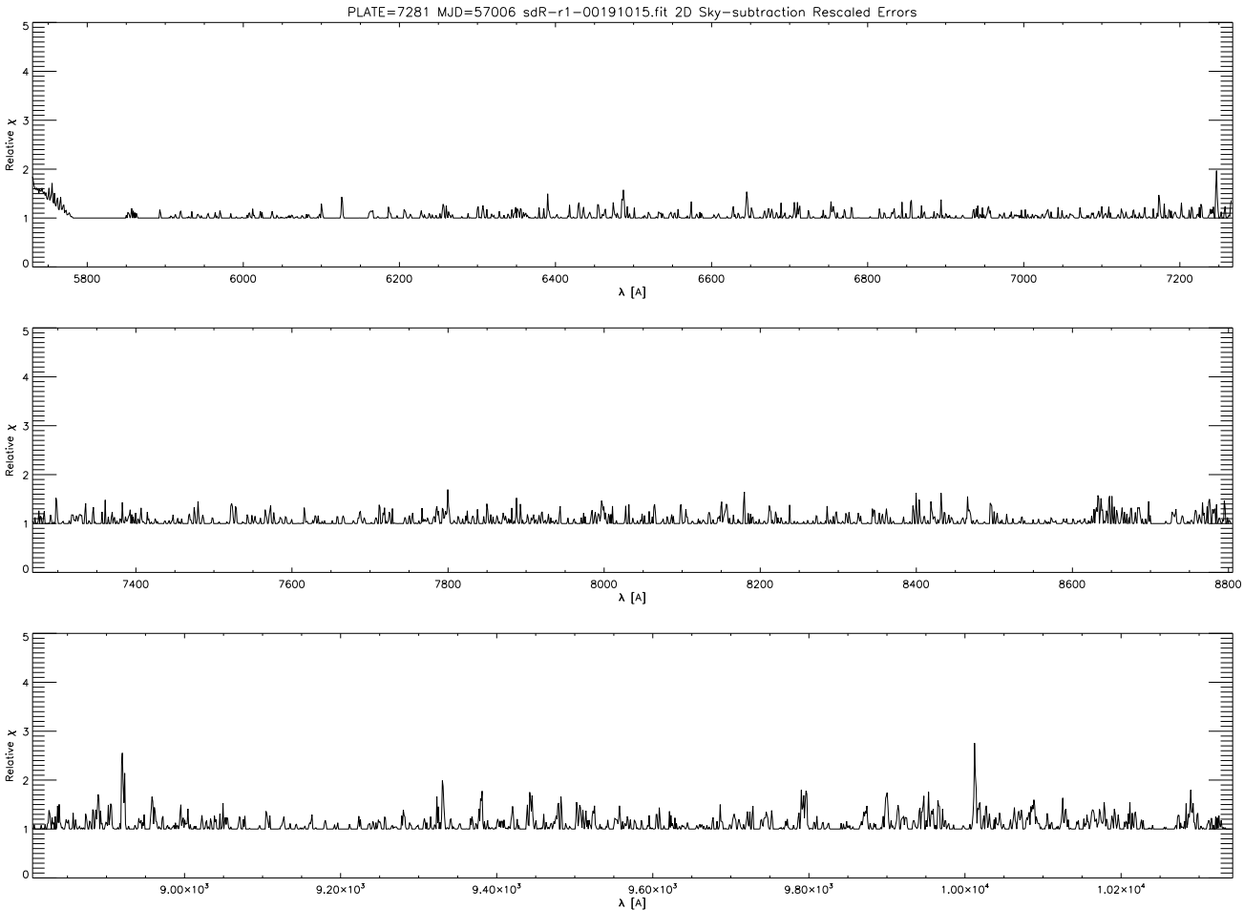


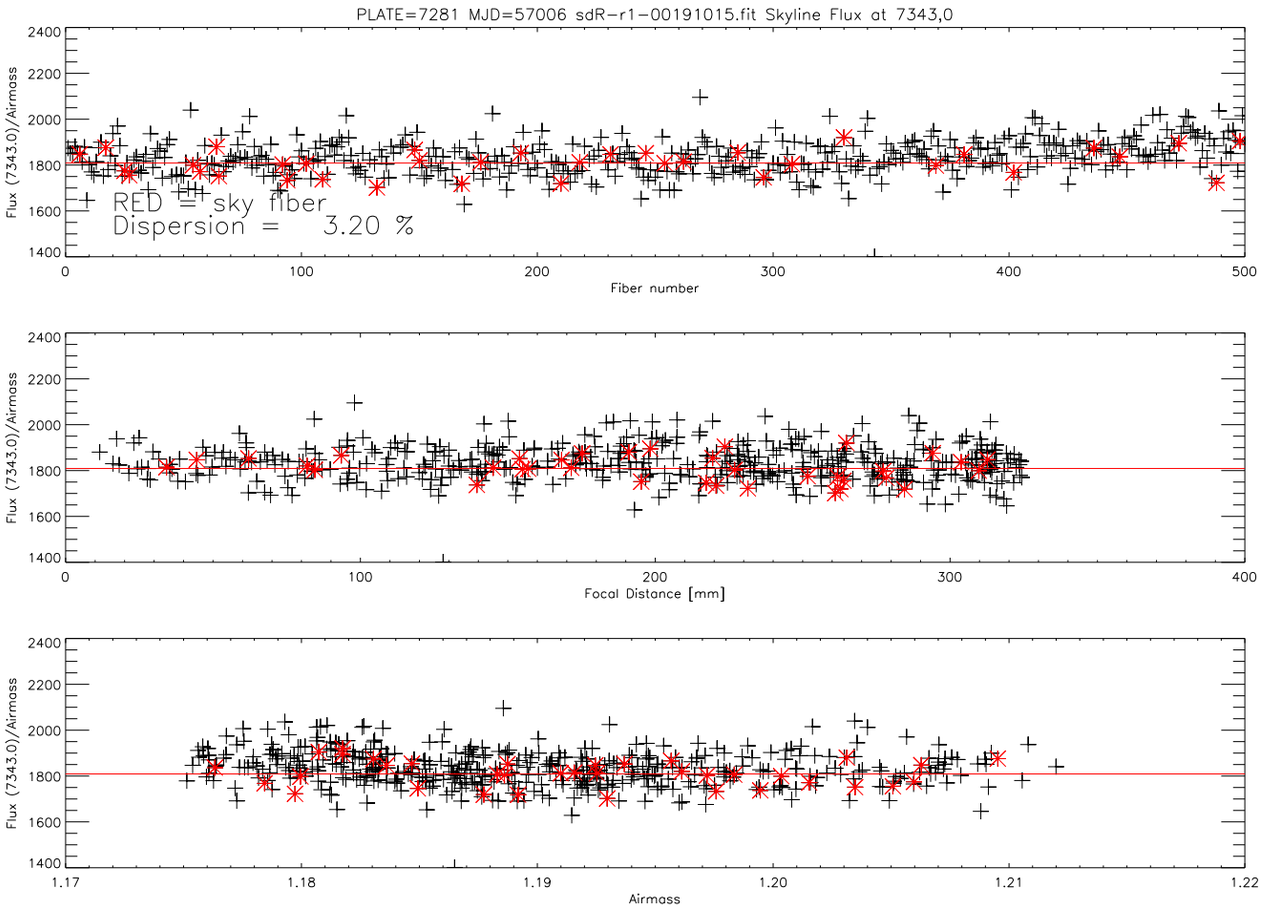

PLATE=7281 MJD=57006 sdR-r1-00191015.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

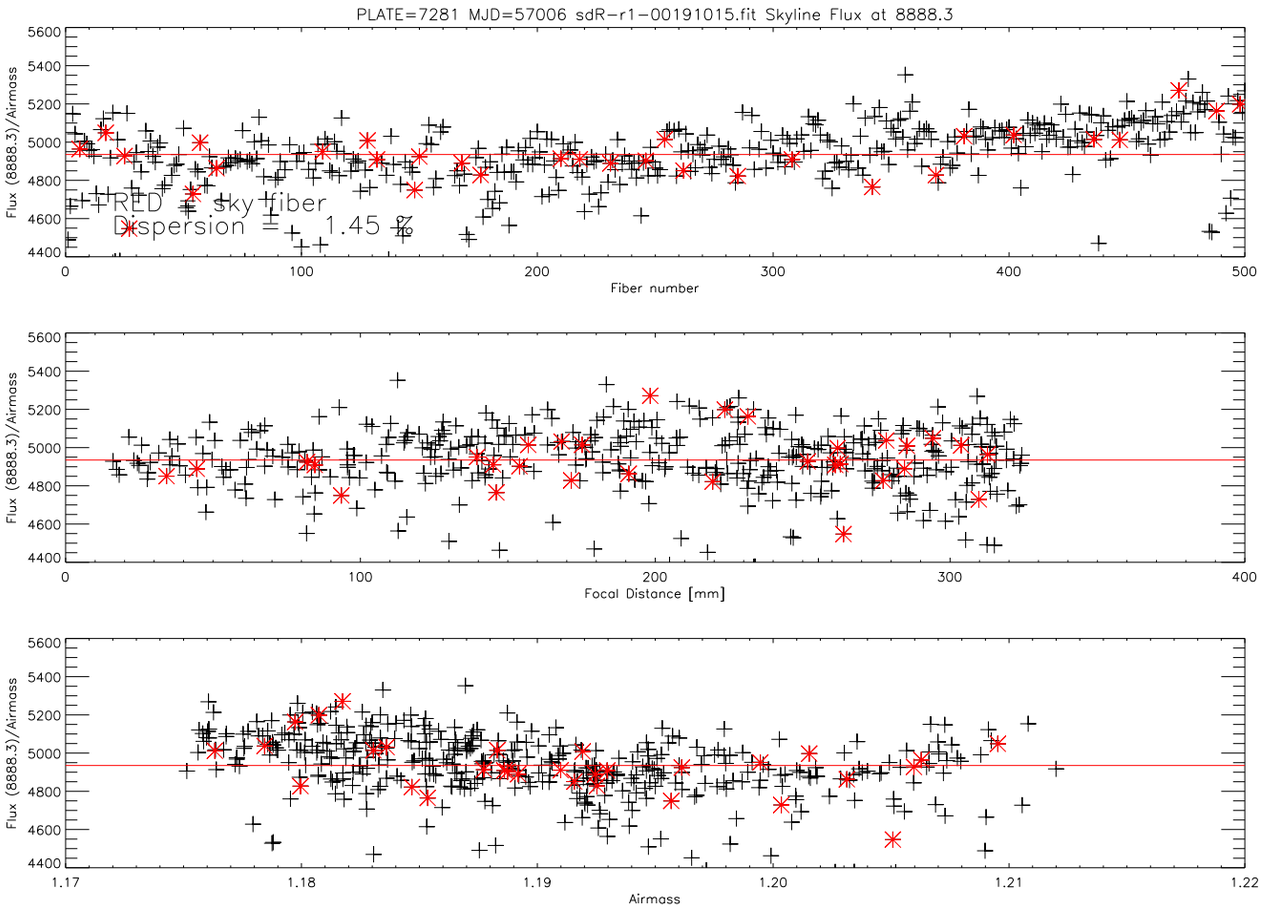

PLATE=7281 MJD=57006 sdR-r1-00191015.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

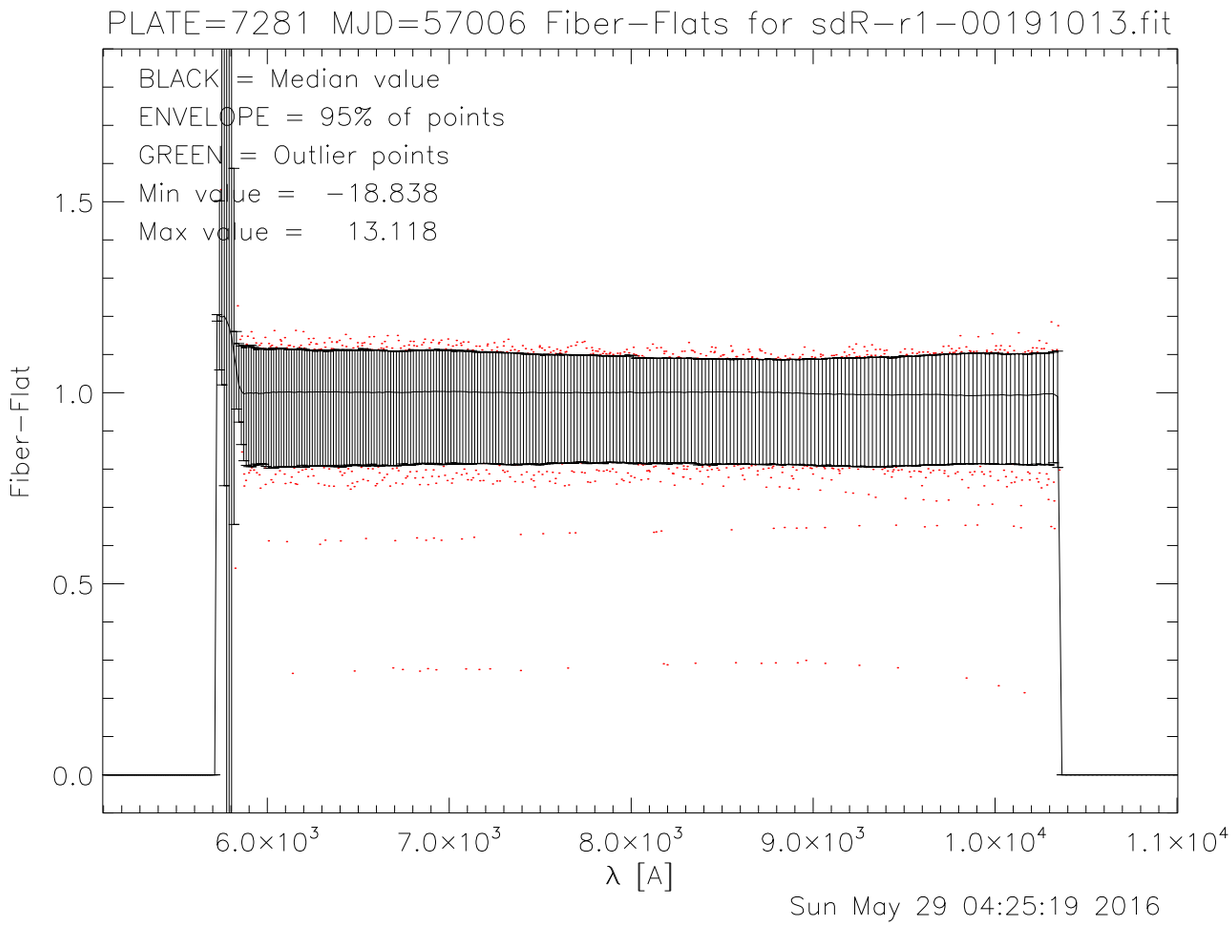

PLATE=7281 MJD=57006 sdR-r1-00191015.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
150
100
50
0
−50
−100
−150
8820
8840
8860
8880
8900
λ [A]

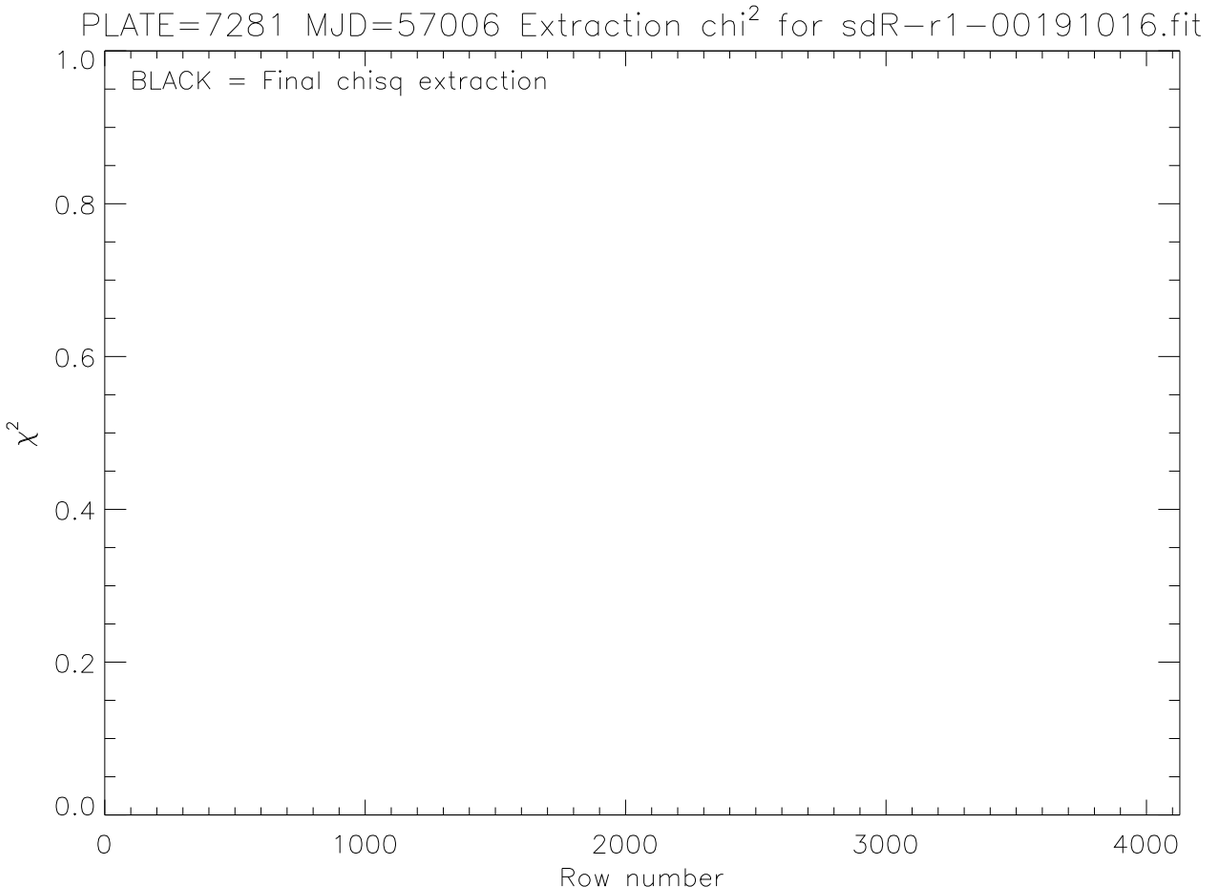
Number of sky fibers = 38

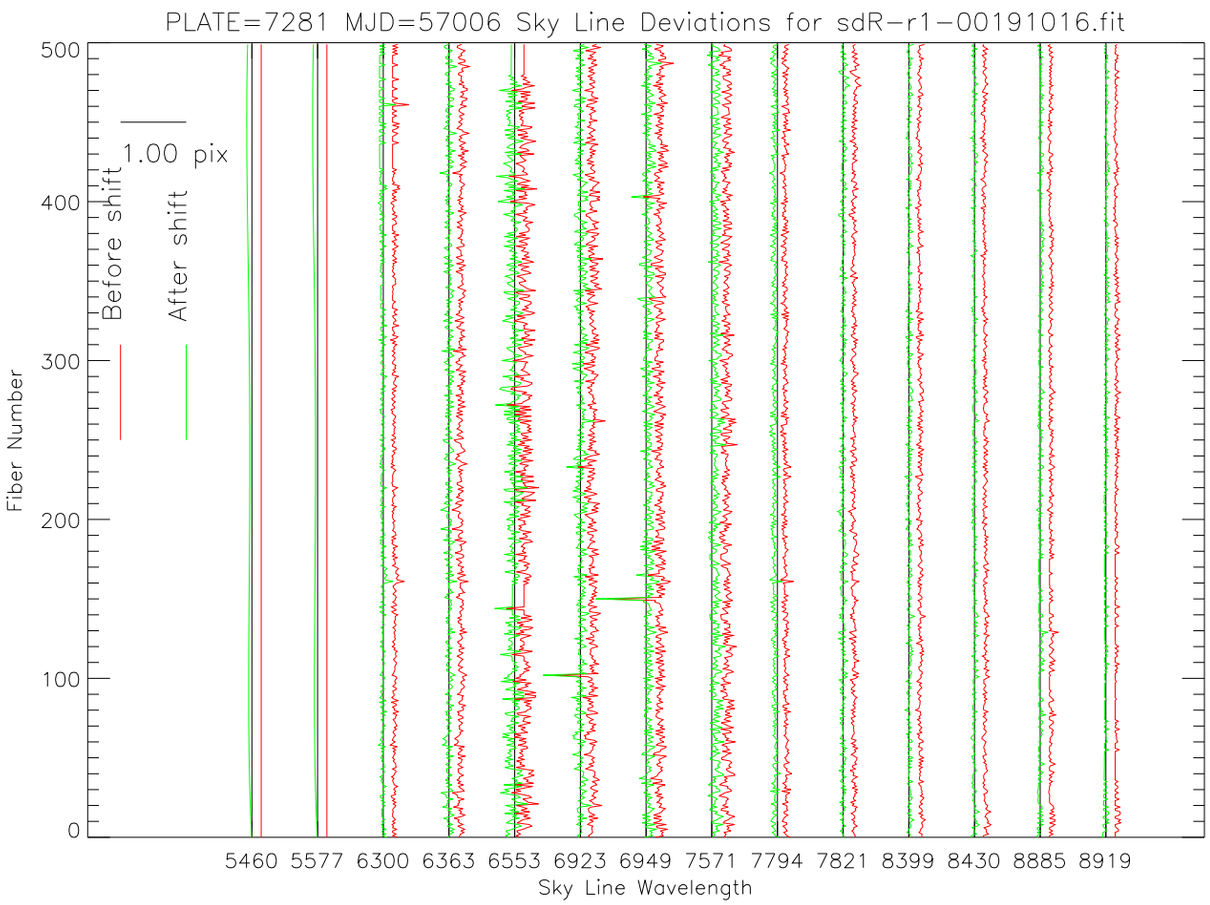


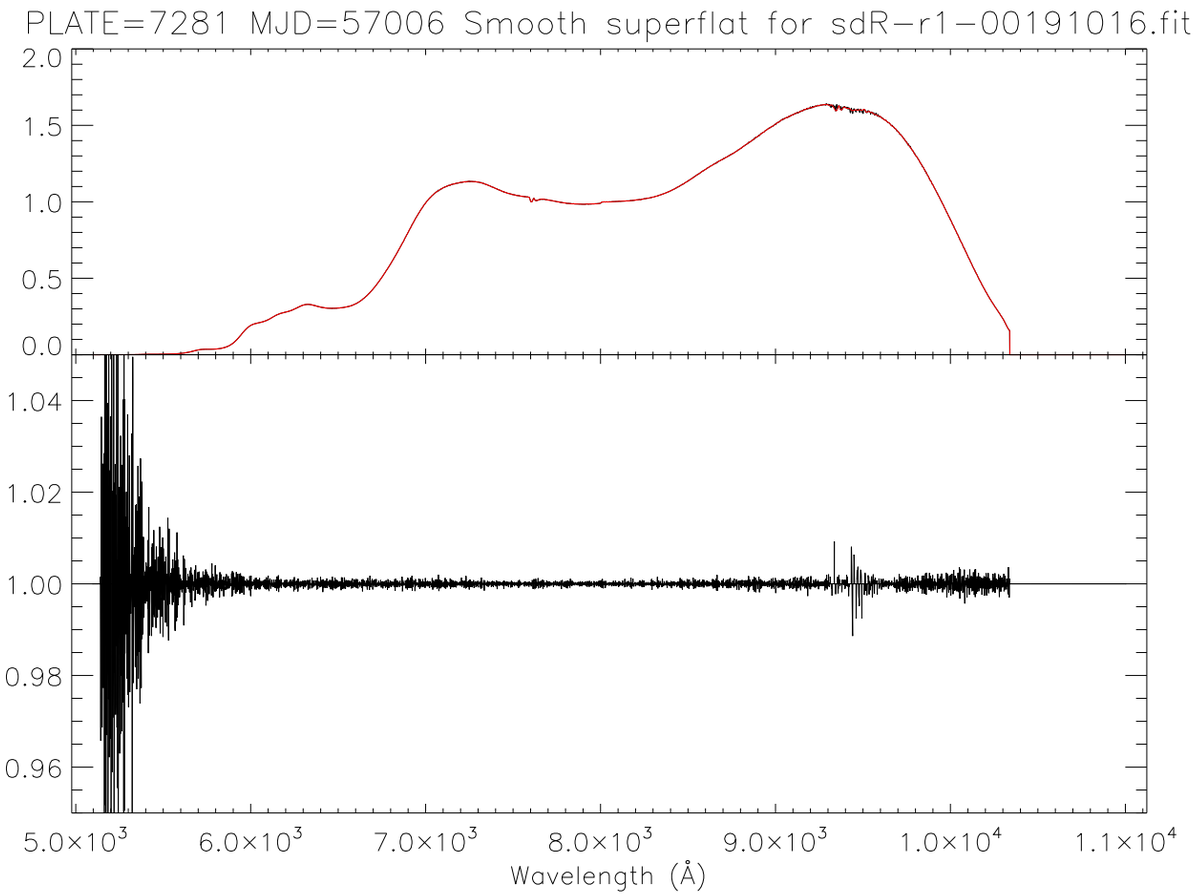

PLATE=7281 MJD=57006 sdR-r1-00191015.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 3.20 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

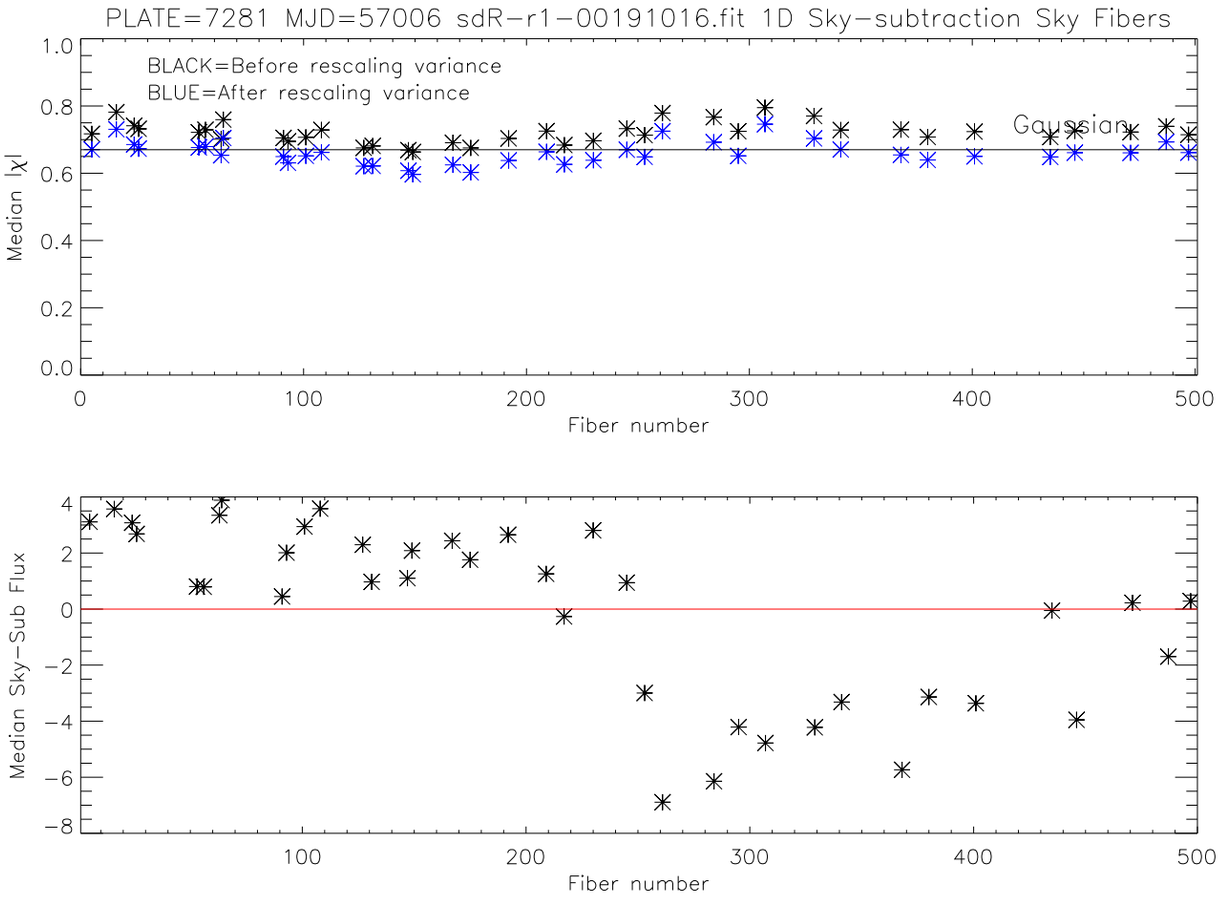

PLATE=7281 MJD=57006 sdR-r1-00191015.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
Focal Distance [mm]
Airmass
RED = sky fiber
Dispersion = 1.45 %

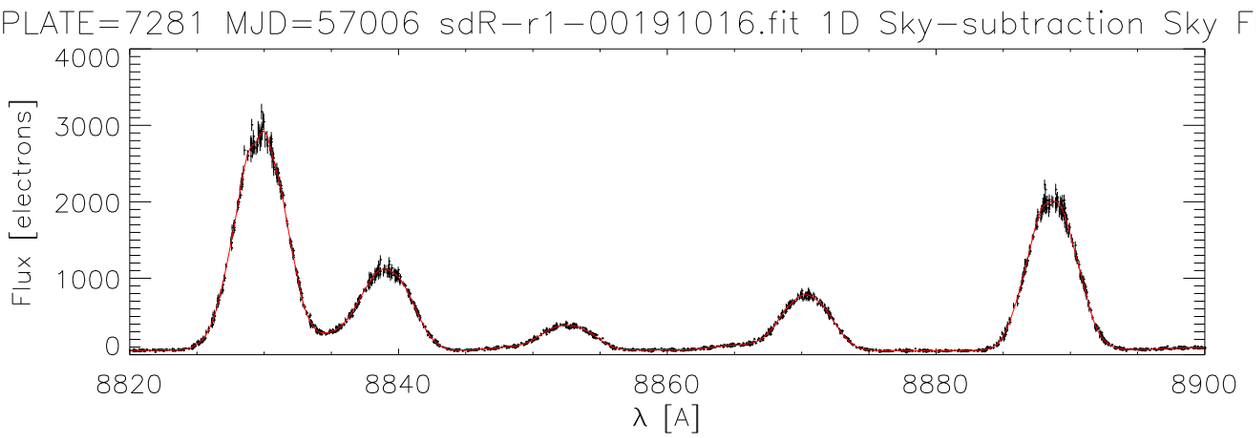

PLATE=7281 MJD=57006 Fiber-Flats for sdR-r1-00191013.fit
BLACK = Median value
ENVELOPE = 95% of points
GREEN = Outlier points
Min value = -18.838
Max value = 13.118
Fiber-Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Sun May 29 04:25:19 2016

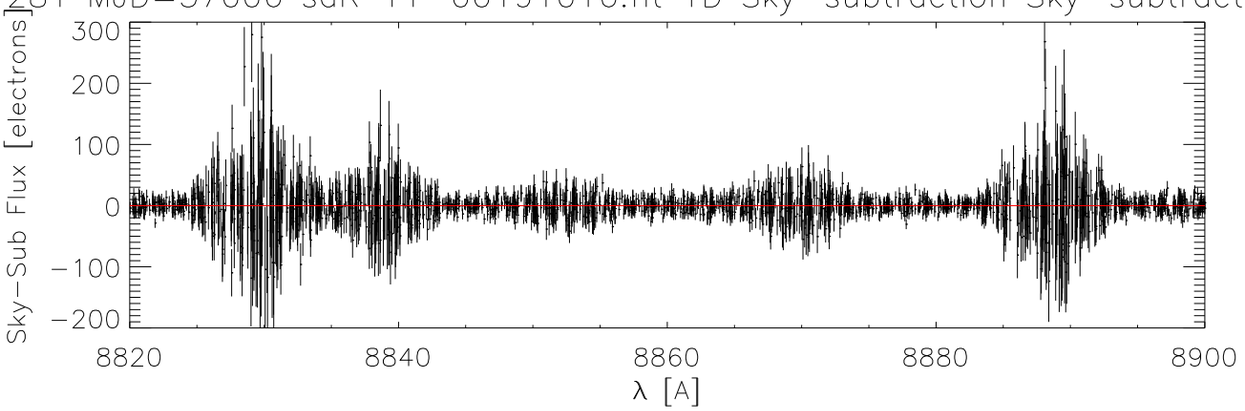

PLATE=7281 MJD=57006 Extraction chi^2 for sdR-r1-00191016.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=7281 MJD=57006 Sky Line Deviations for sdR-r1-00191016.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

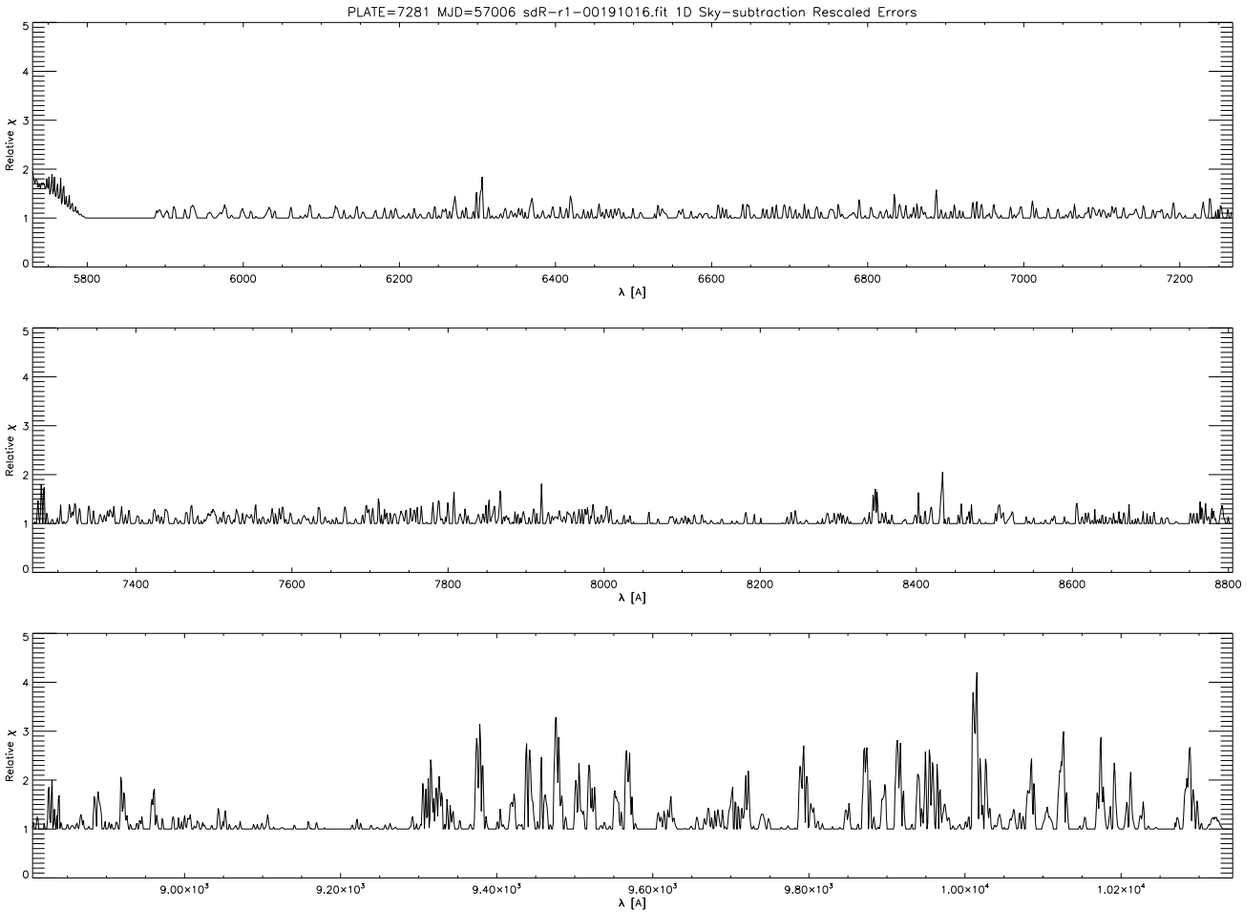

PLATE=7281 MJD=57006 Smooth superflat for sdR-r1-00191016.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

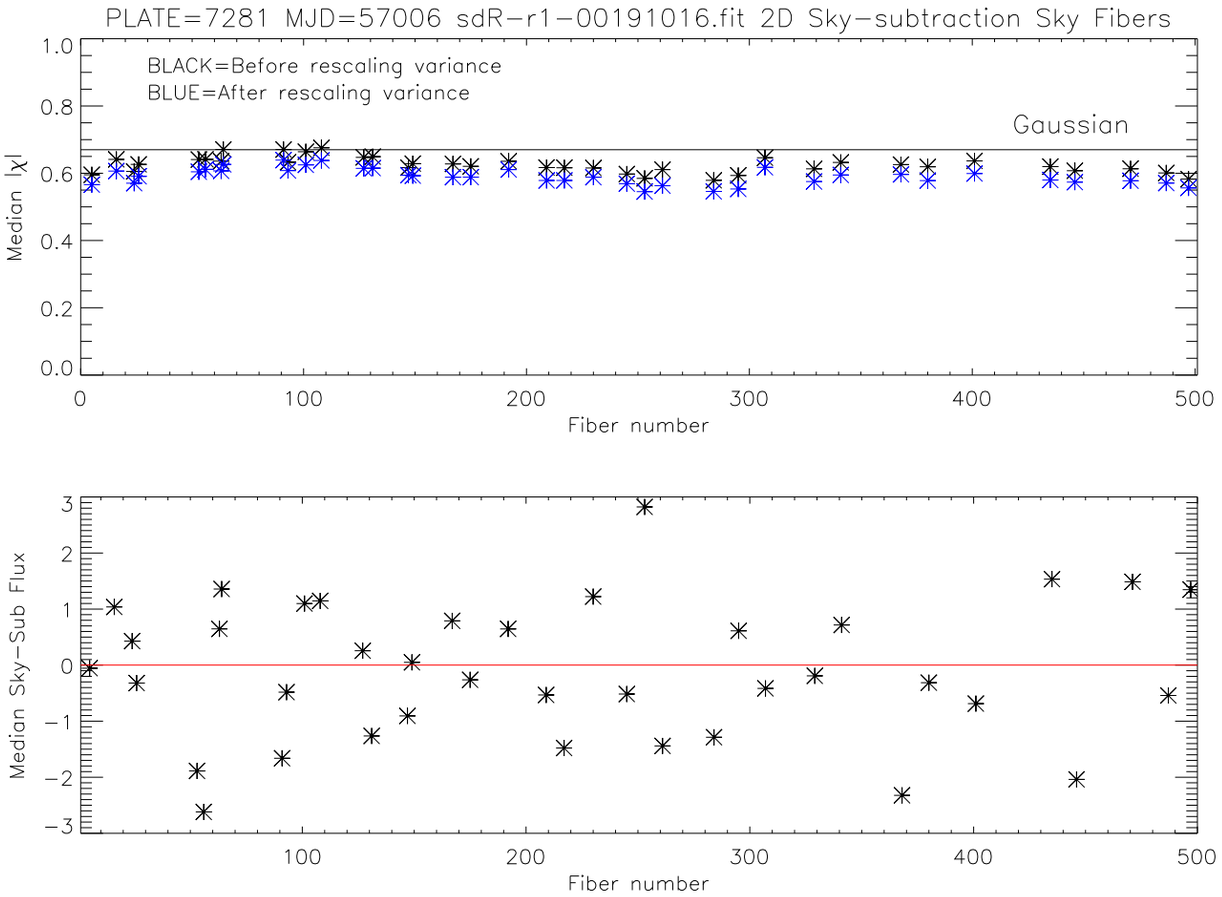

PLATE=7281 MJD=57006 sdR-r1-00191016.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

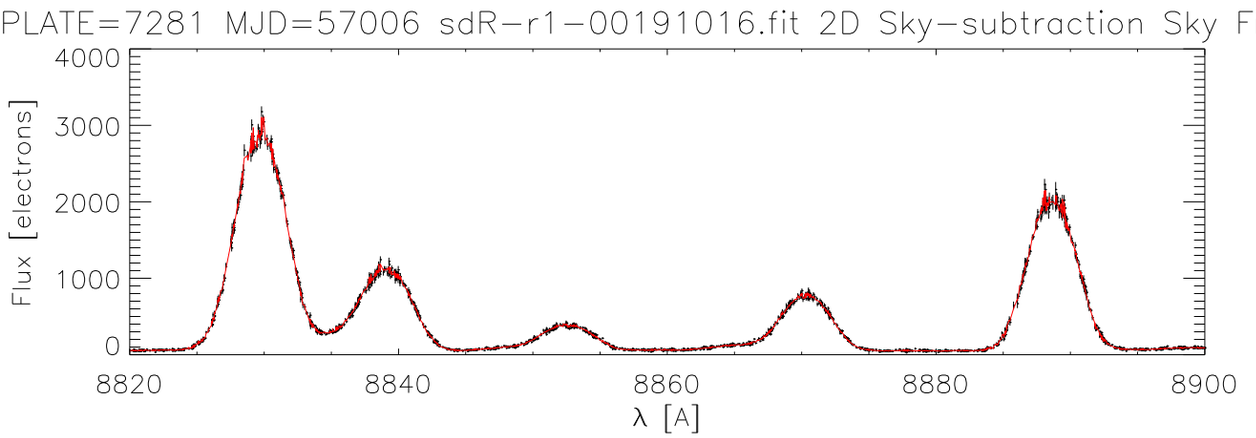

PLATE=7281 MJD=57006 sdR-r1-00191016.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

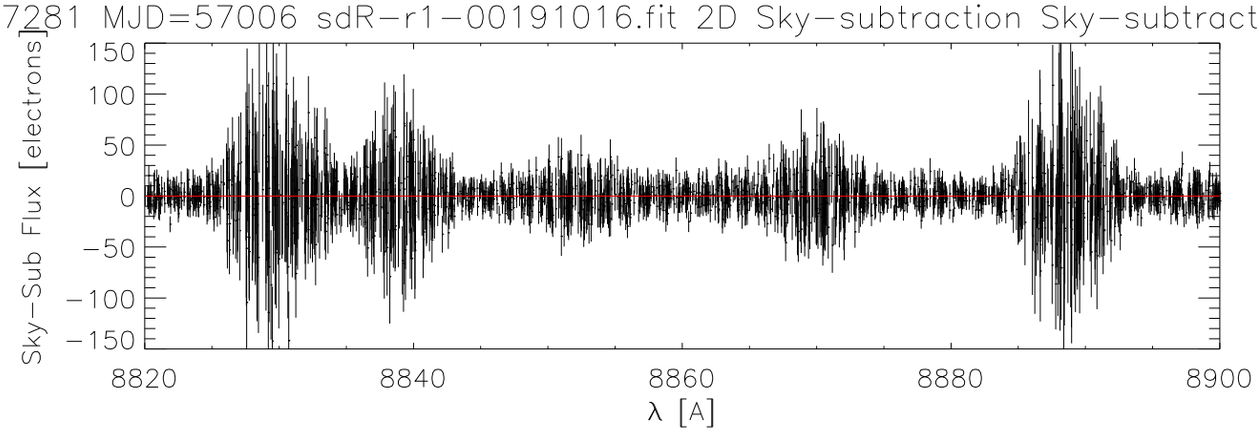

PLATE=7281 MJD=57006 sdR-r1-00191016.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 38

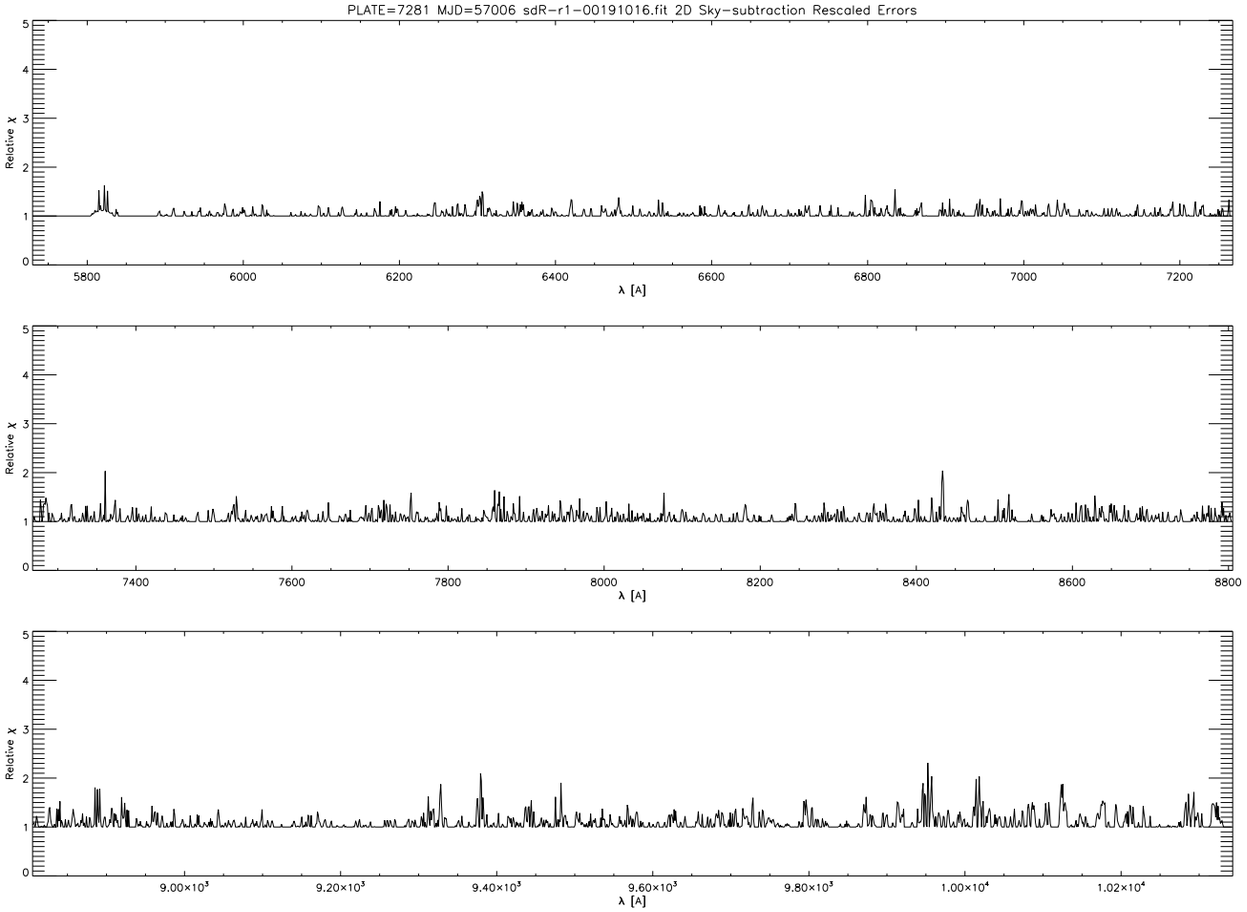


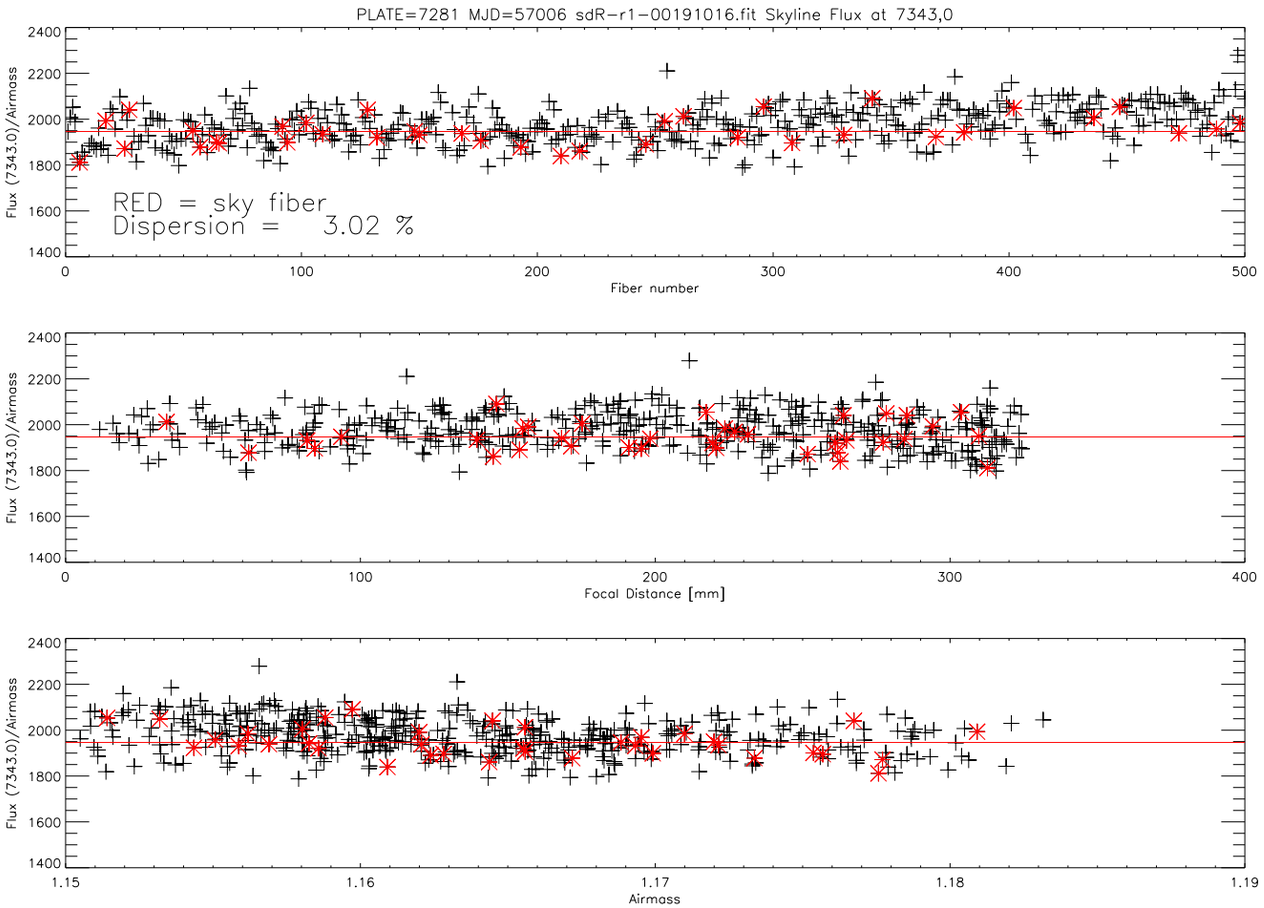

PLATE=7281 MJD=57006 sdR-r1-00191016.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

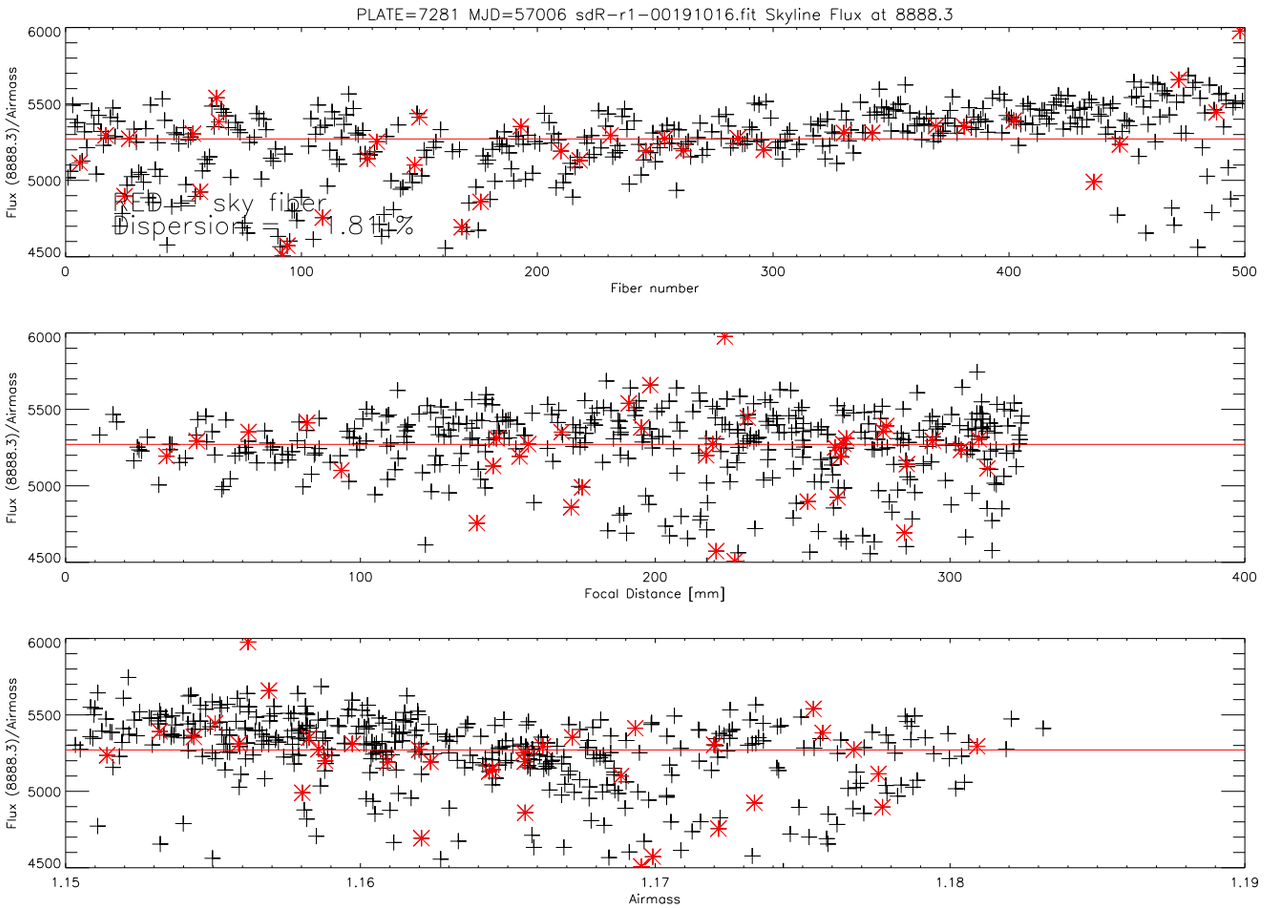

PLATE=7281 MJD=57006 sdR-r1-00191016.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]


PLATE=7281 MJD=57006 sdR-r1-00191016.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]

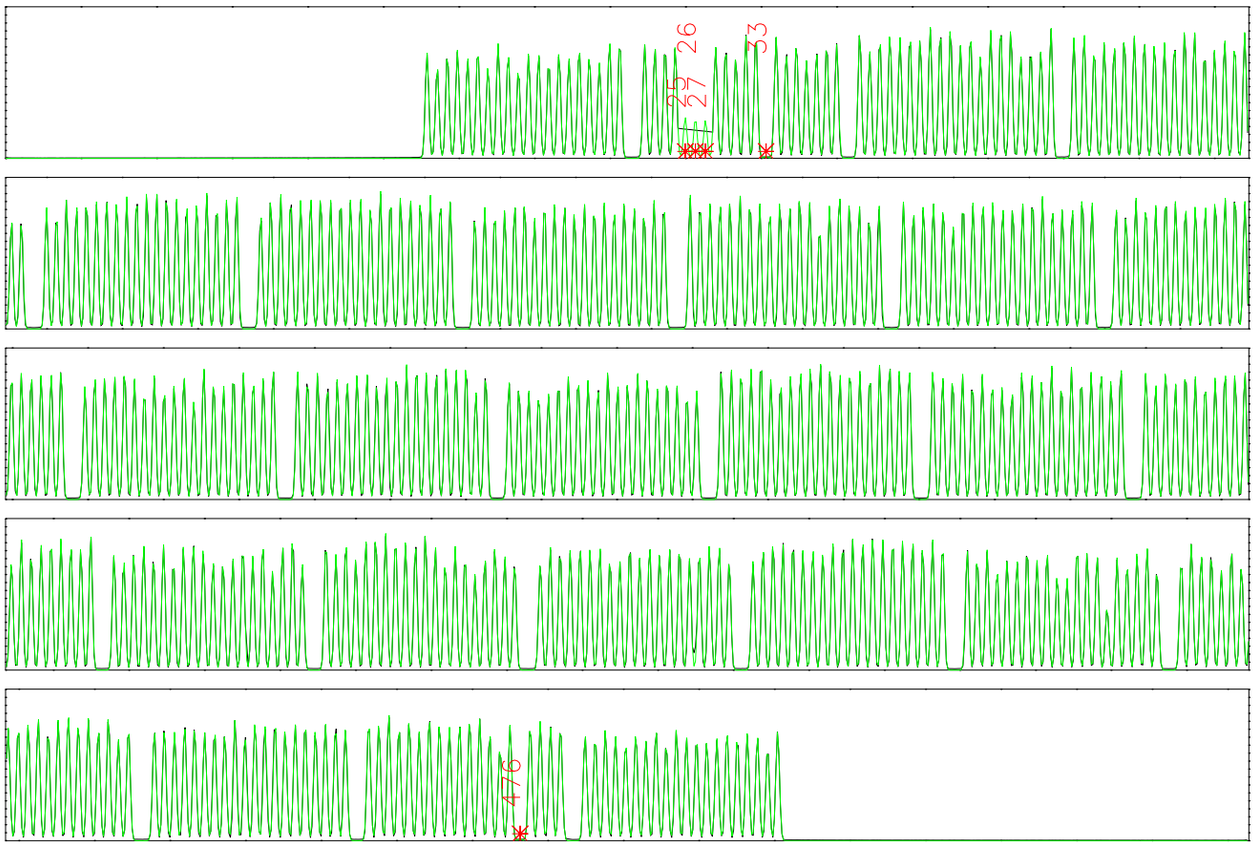
Number of sky fibers = 38

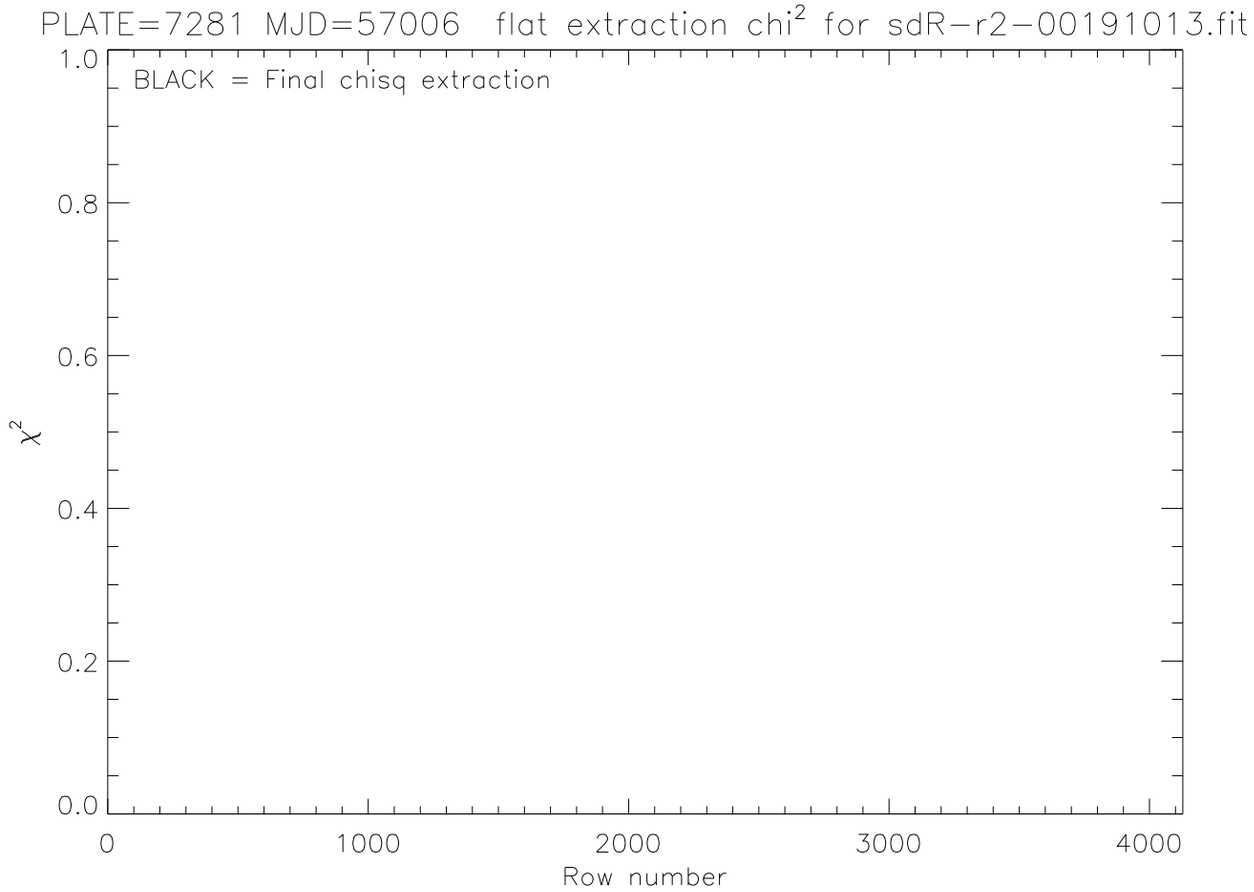


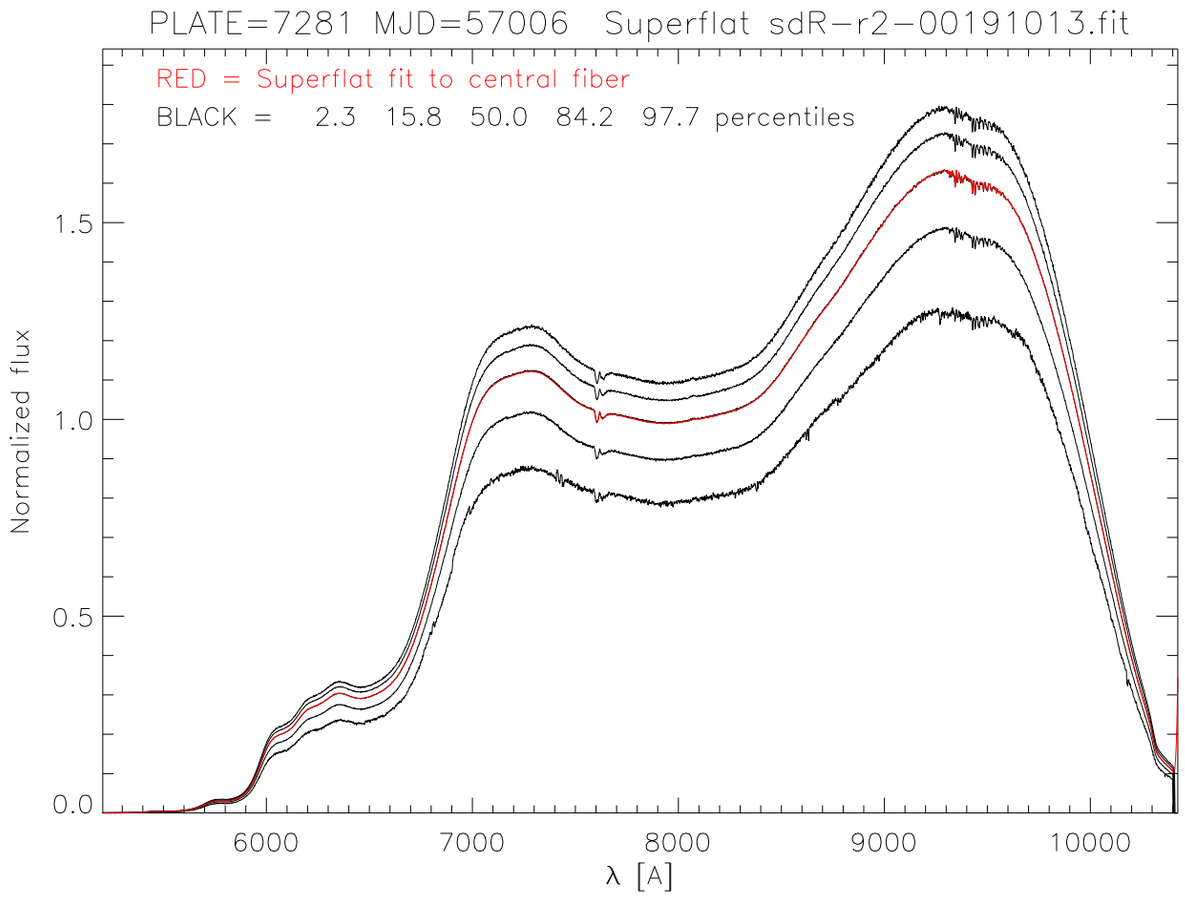

PLATE=7281 MJD=57006 sdR-r1-00191016.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.02 %
Fiber number
Focal Distance [mm]
Airmass

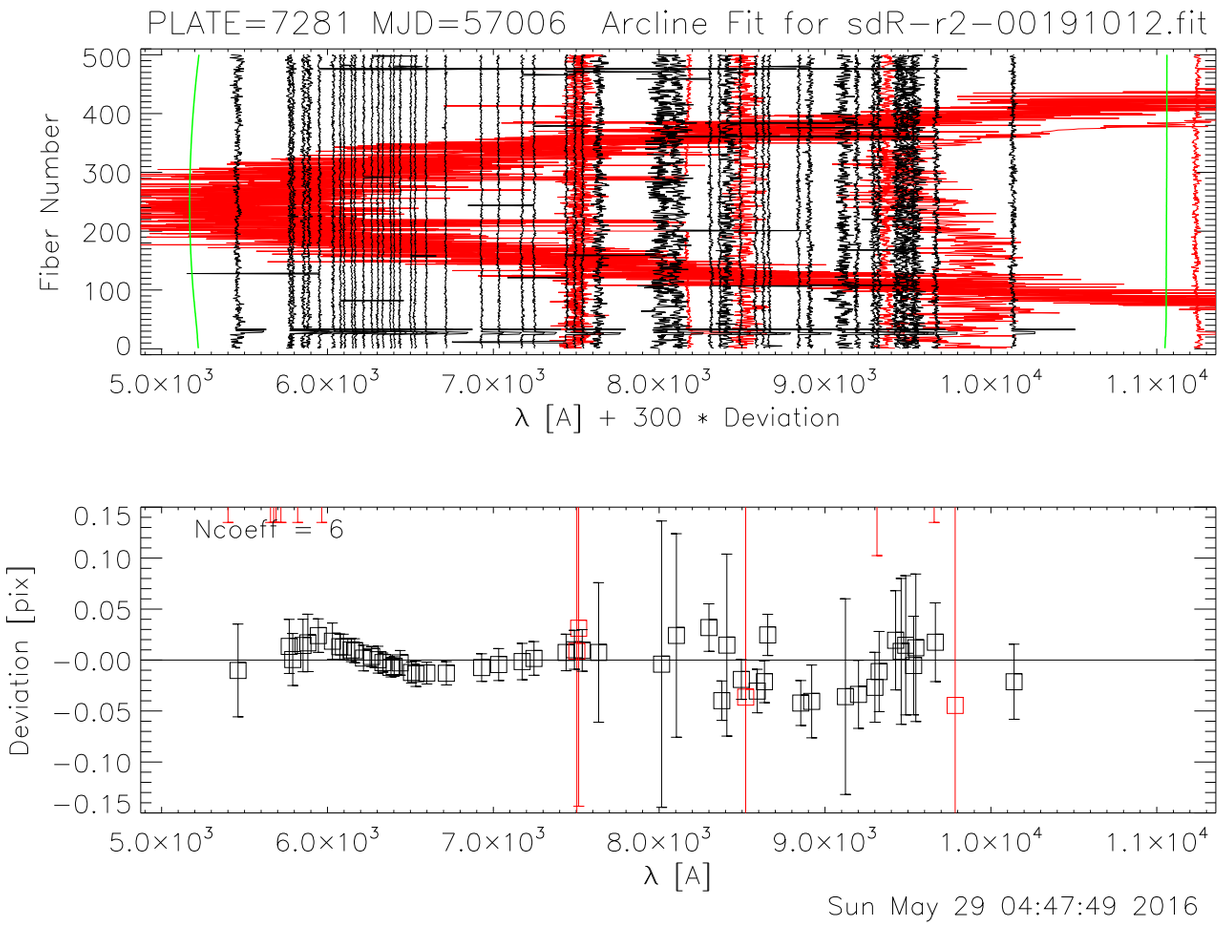

PLATE=7281 MJD=57006 sdR-r1-00191016.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
Focal Distance [mm]
Airmass
sky fiber
dispersion = 1.81%

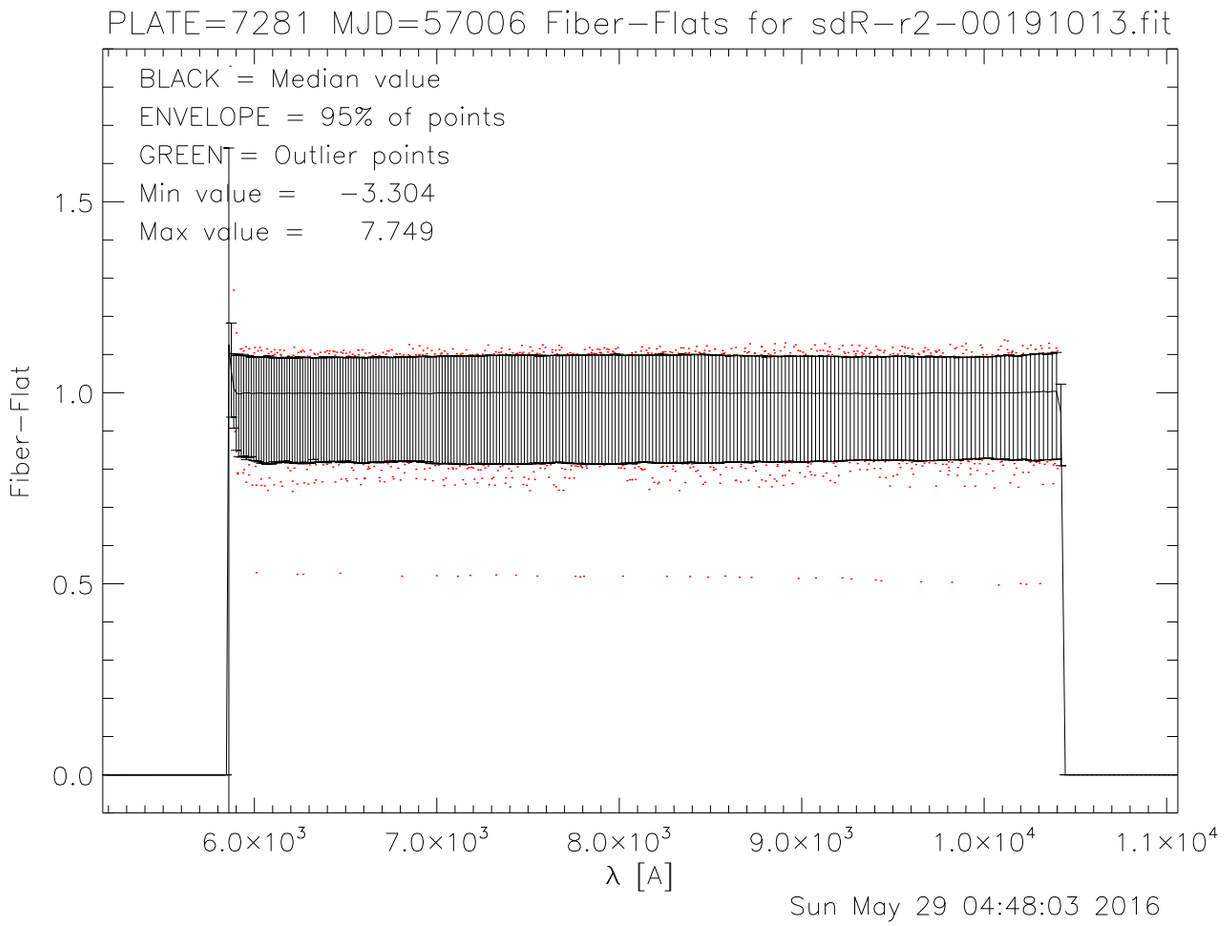
PLATE=7281 MJD=57006 Traces sdR-r2-00191013.fit

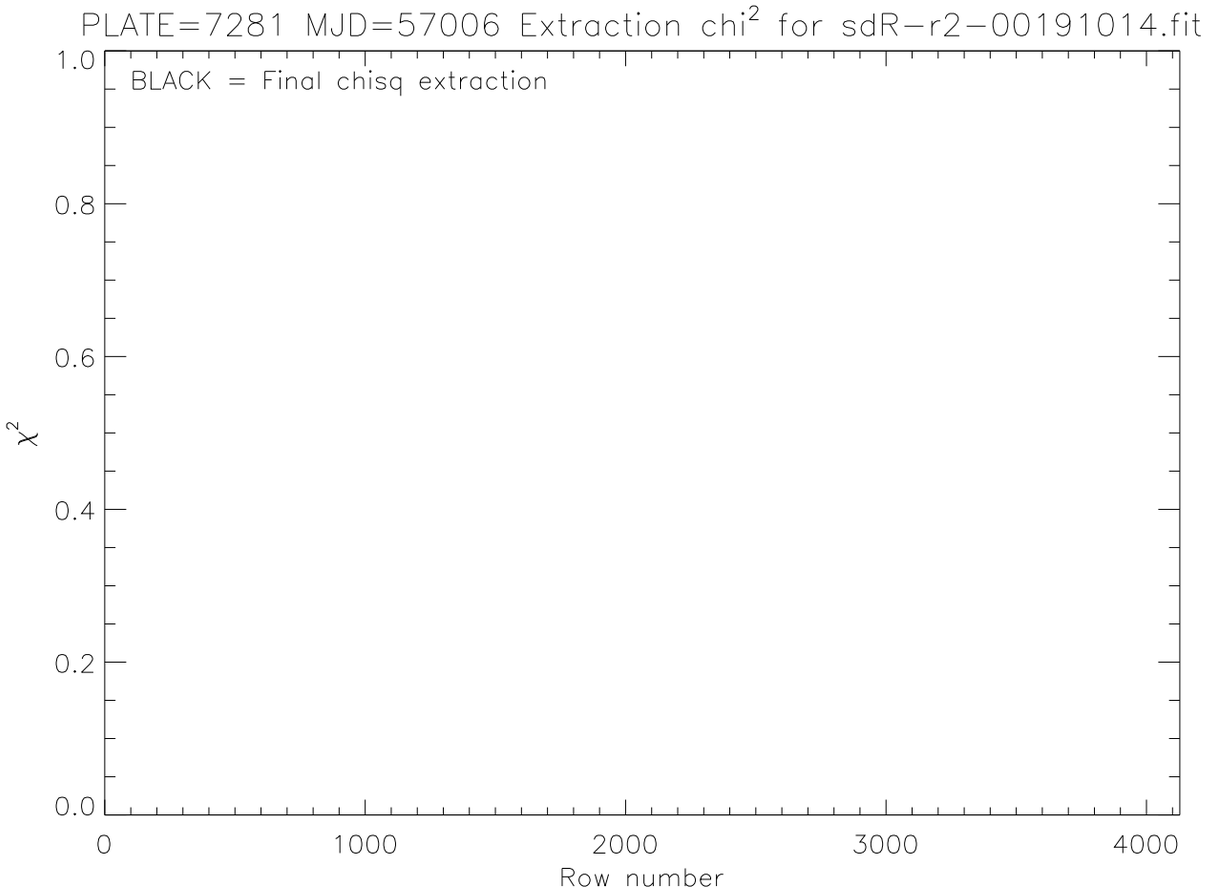


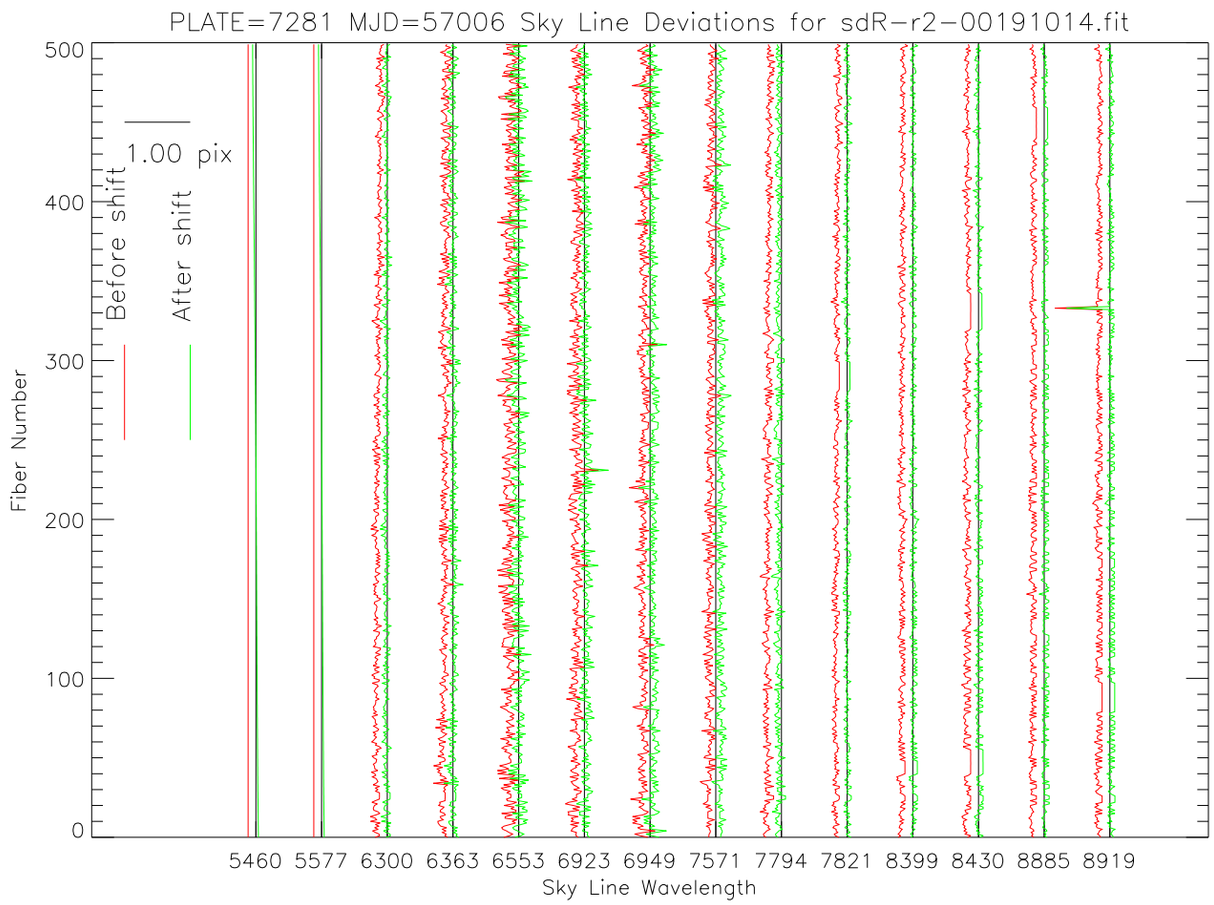

PLATE=7281 MJD=57006 flat extraction chi^2 for sdR-r2-00191013.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number

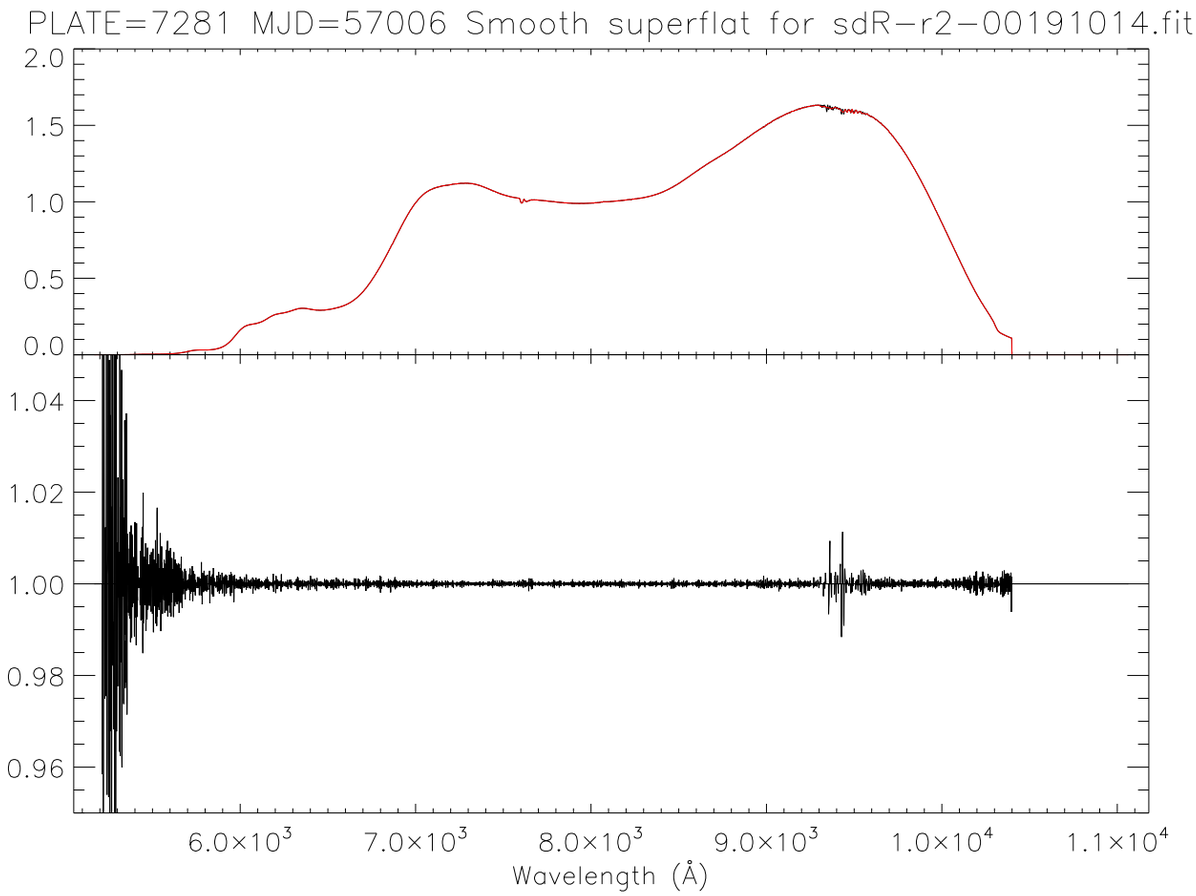

PLATE=7281 MJD=57006 Superflat sdR-r2-00191013.fit
RED = Superflat fit to central fiber
BLACK = 2.3 15.8 50.0 84.2 97.7 percentiles
Normalized flux
0.0
0.5
1.0
1.5
6000
7000
8000
9000
10000
λ [A]

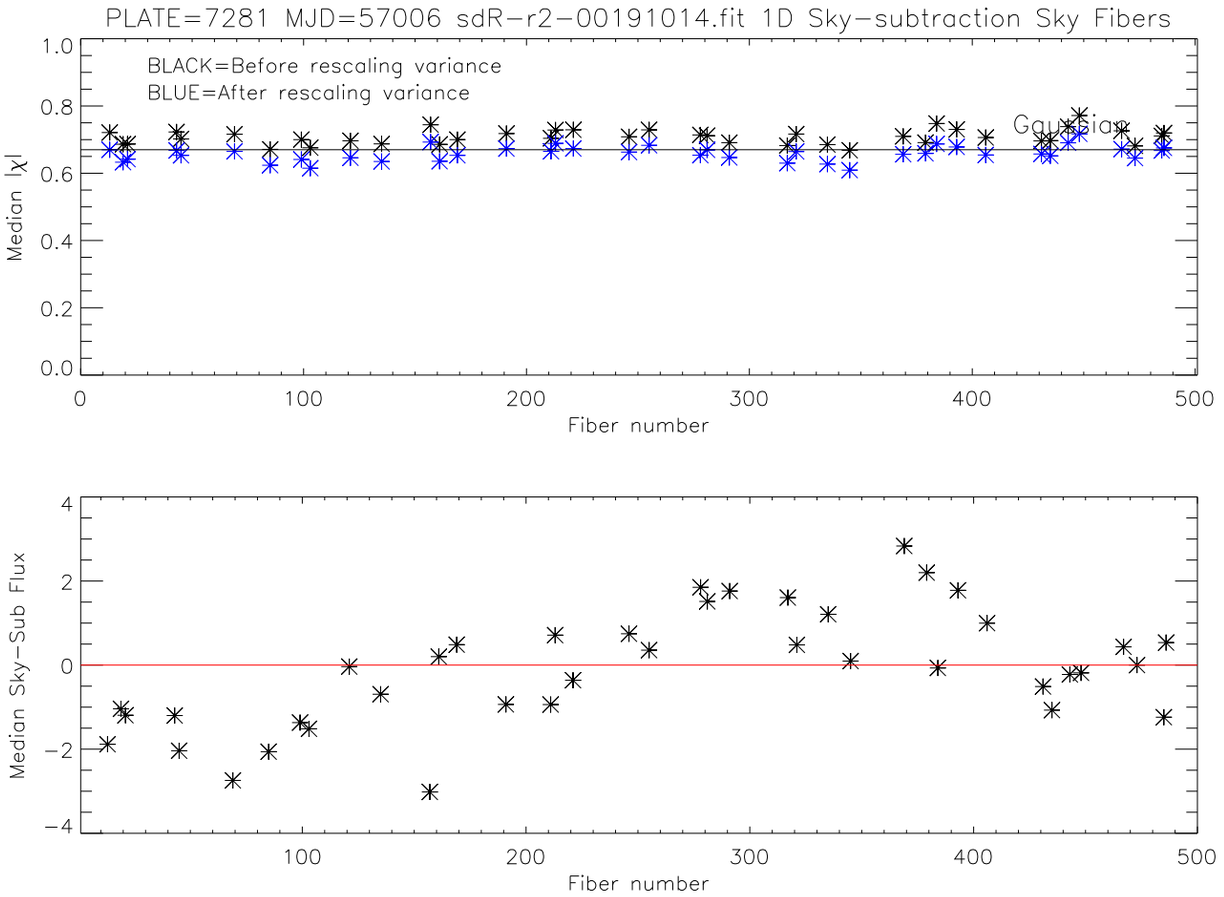

PLATE=7281 MJD=57006 Arcline Fit for sdR-r2-00191012.fit
Fiber Number
500
400
300
200
100
0
5.0×10^3
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A] + 300 * Deviation
Ncoeff = 6
Deviation [pix]
0.15
0.10
0.05
−0.00
−0.05
−0.10
−0.15
λ [A]
Sun May 29 04:47:49 2016

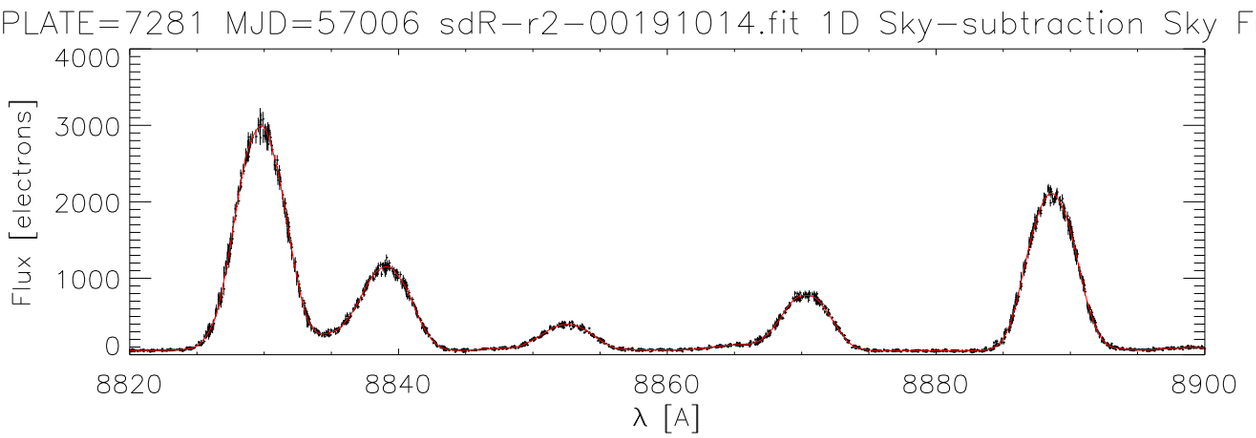

PLATE=7281 MJD=57006 Fiber-Flats for sdR-r2-00191013.fit
BLACK = Median value
ENVELOPE = 95% of points
GREENT = Outlier points
Min value = -3.304
Max value = 7.749
Fiber-Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Sun May 29 04:48:03 2016

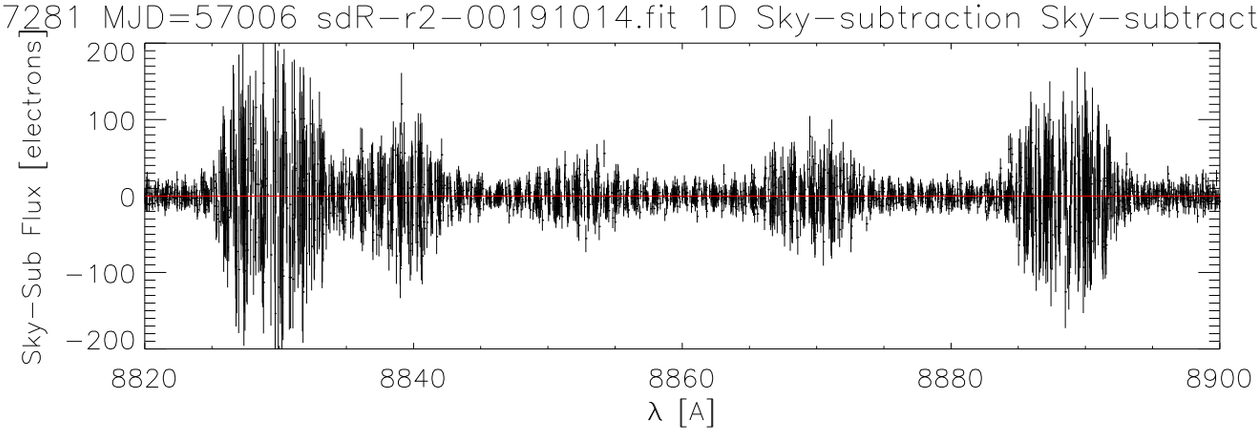

PLATE=7281 MJD=57006 Extraction chi^2 for sdR-r2-00191014.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=7281 MJD=57006 Sky Line Deviations for sdR-r2-00191014.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

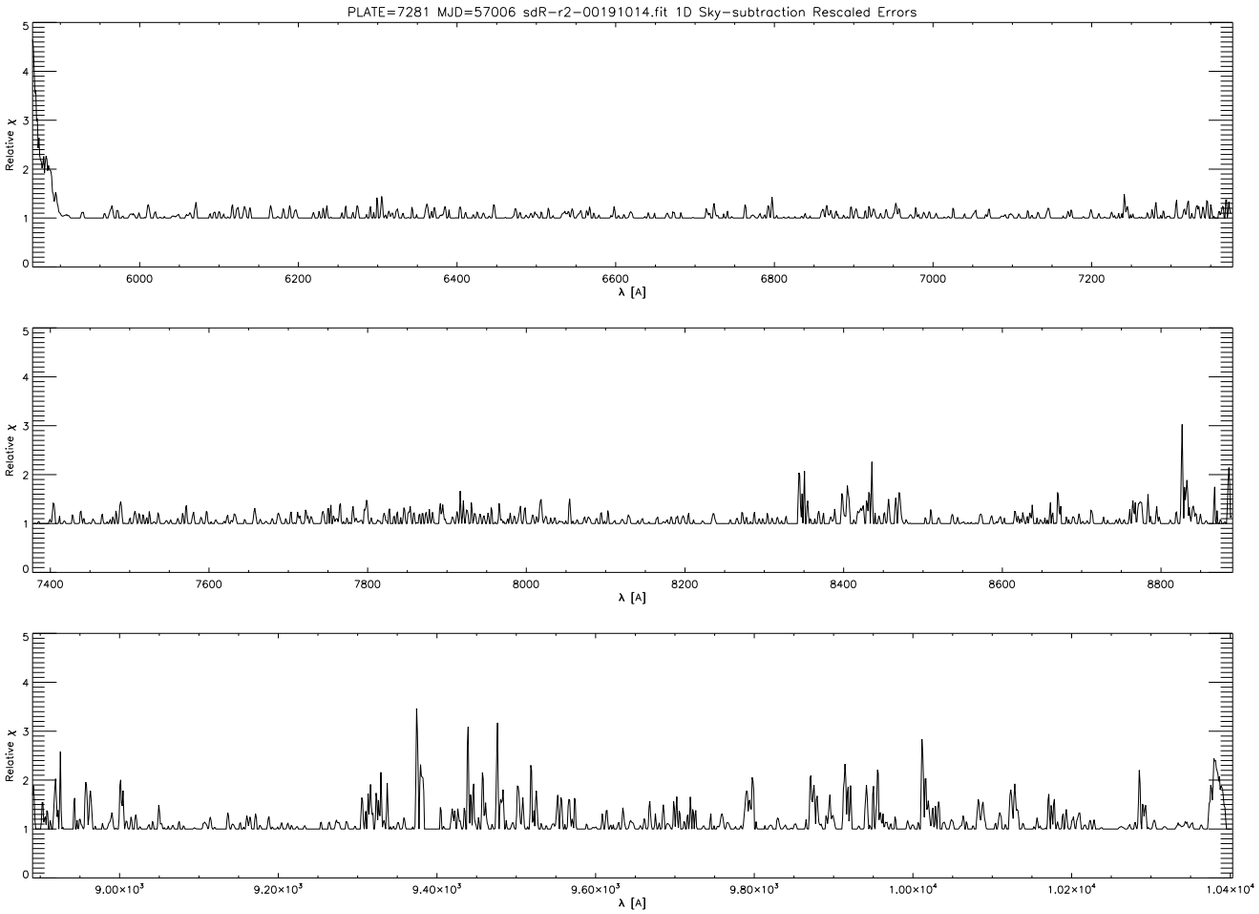

PLATE=7281 MJD=57006 Smooth superflat for sdR-r2-00191014.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

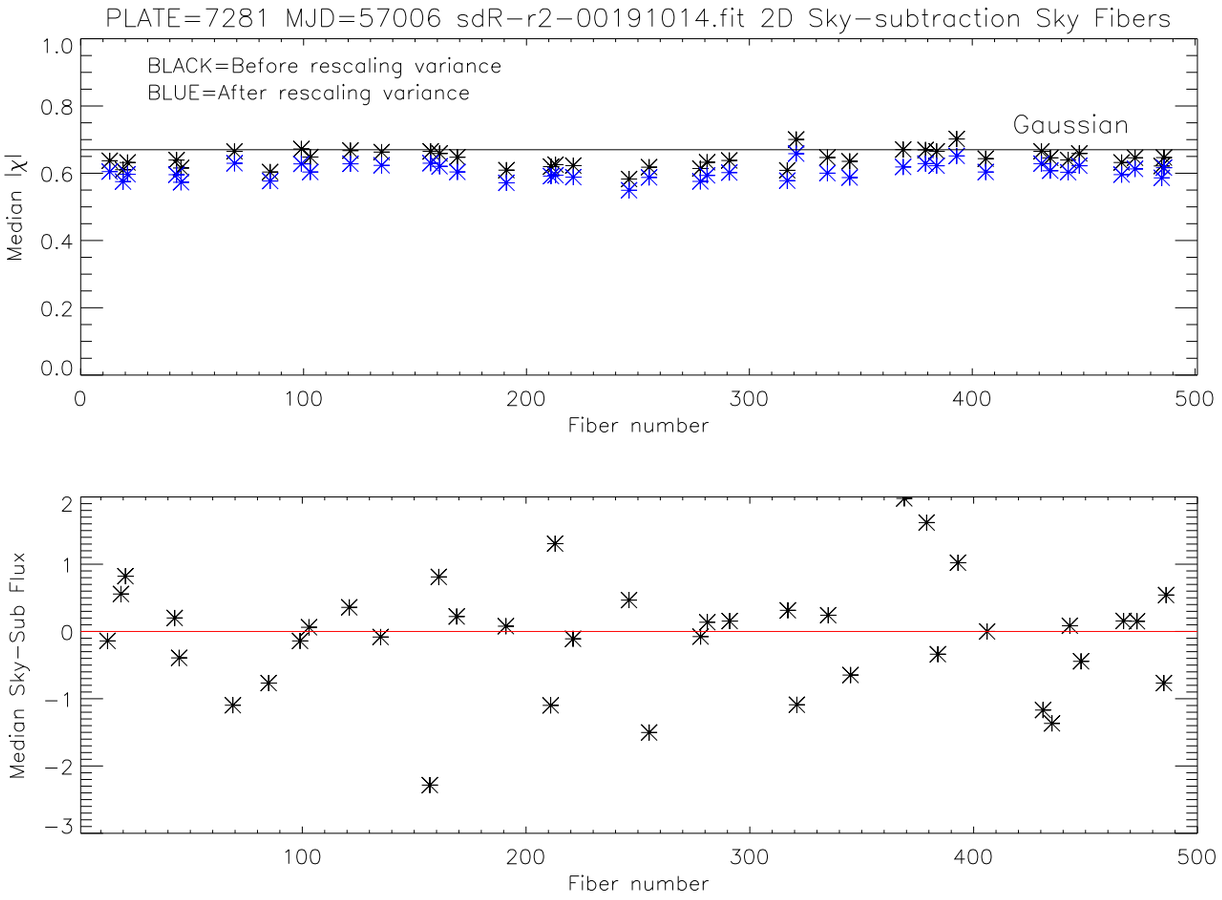

PLATE=7281 MJD=57006 sdR-r2-00191014.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

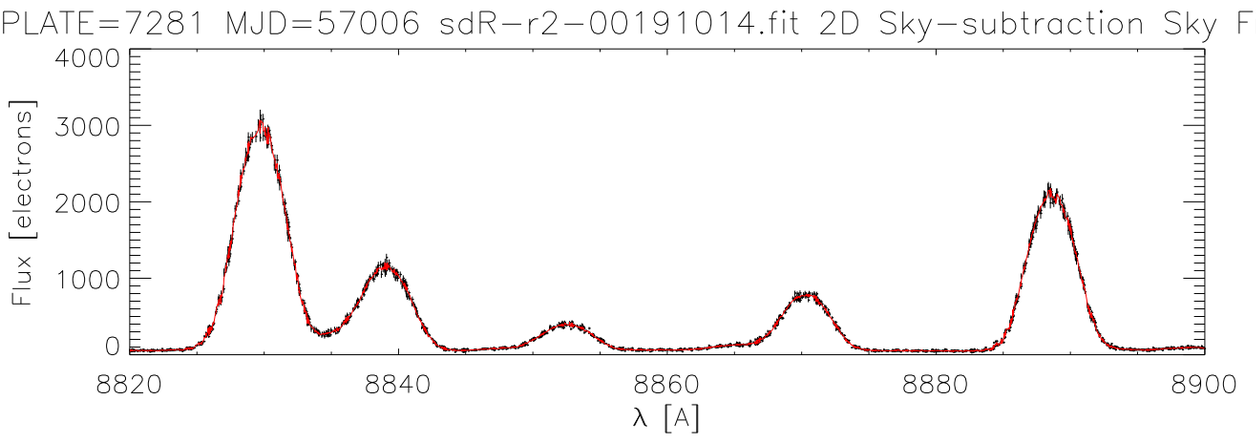

PLATE=7281 MJD=57006 sdR-r2-00191014.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

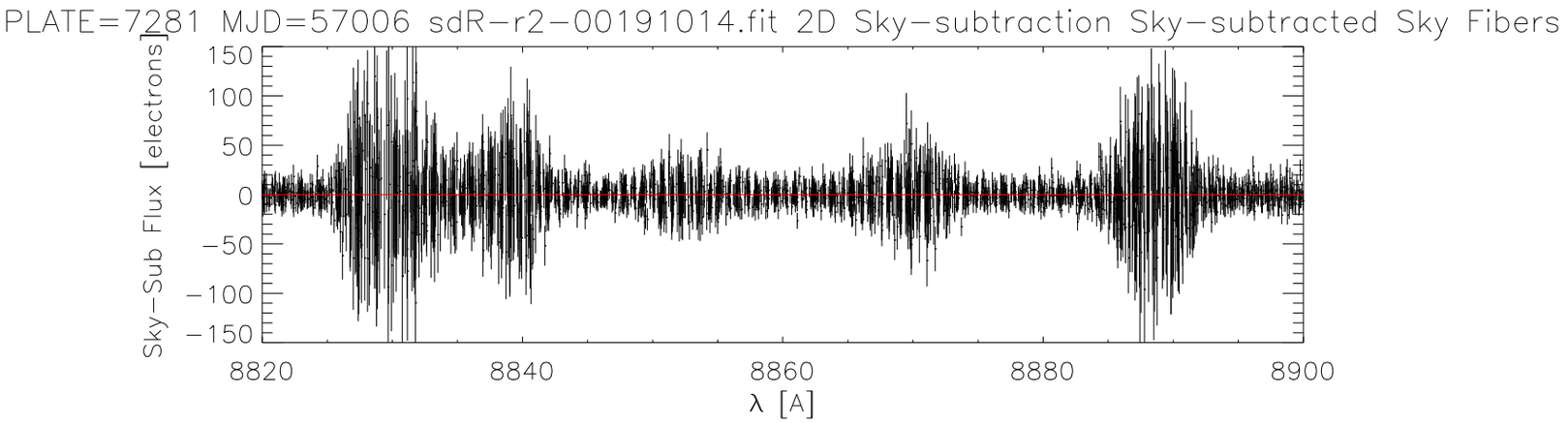

PLATE=7281 MJD=57006 sdR-r2-00191014.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 40

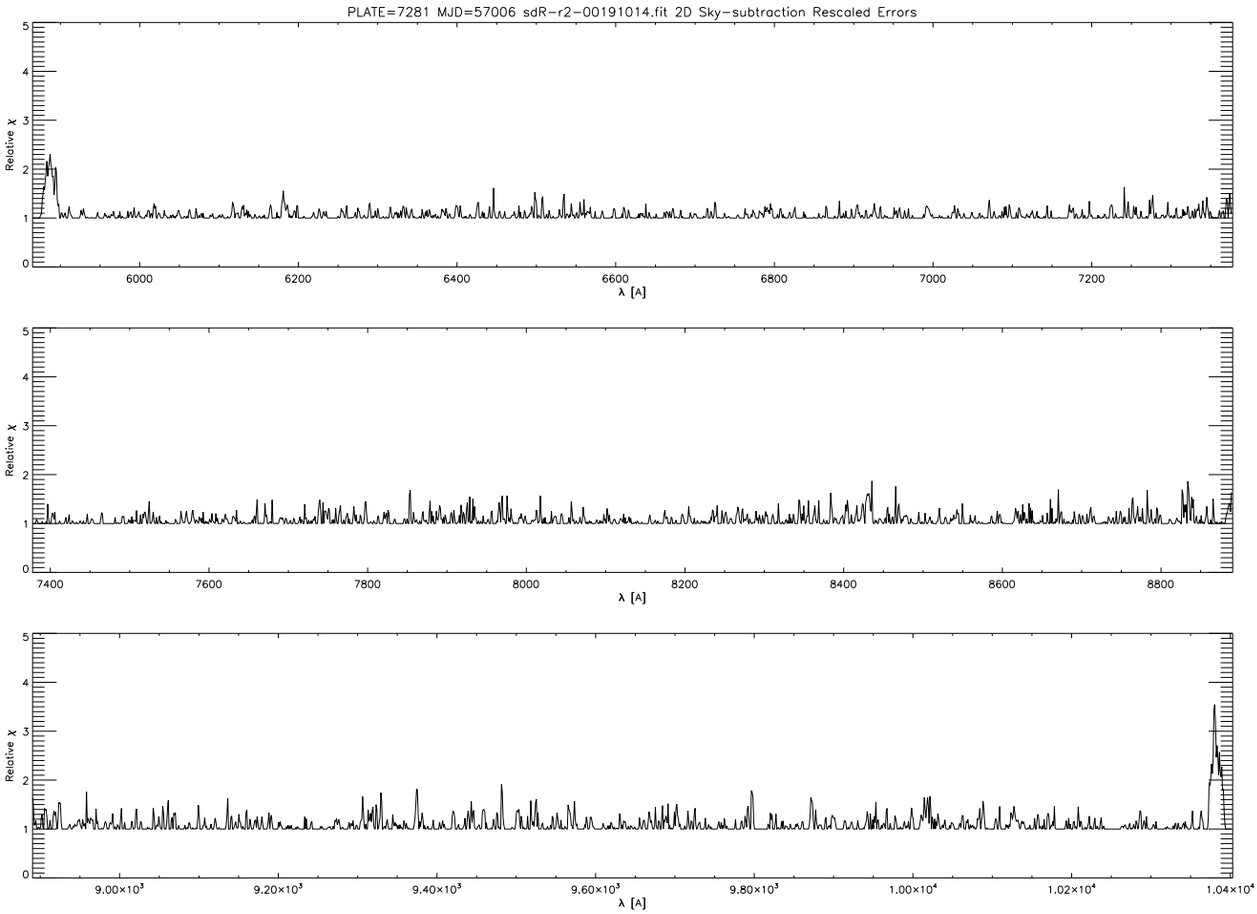


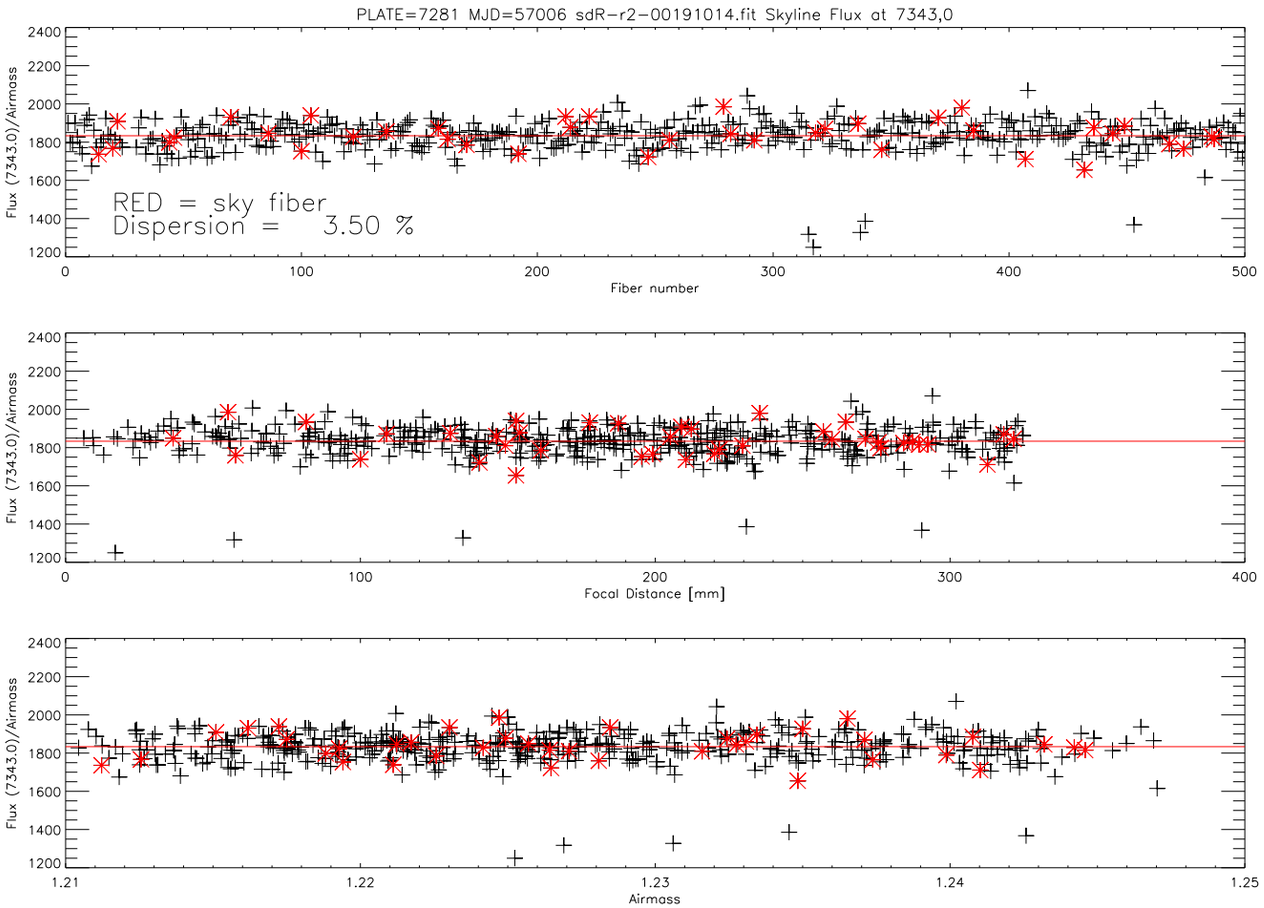

PLATE=7281 MJD=57006 sdR-r2-00191014.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

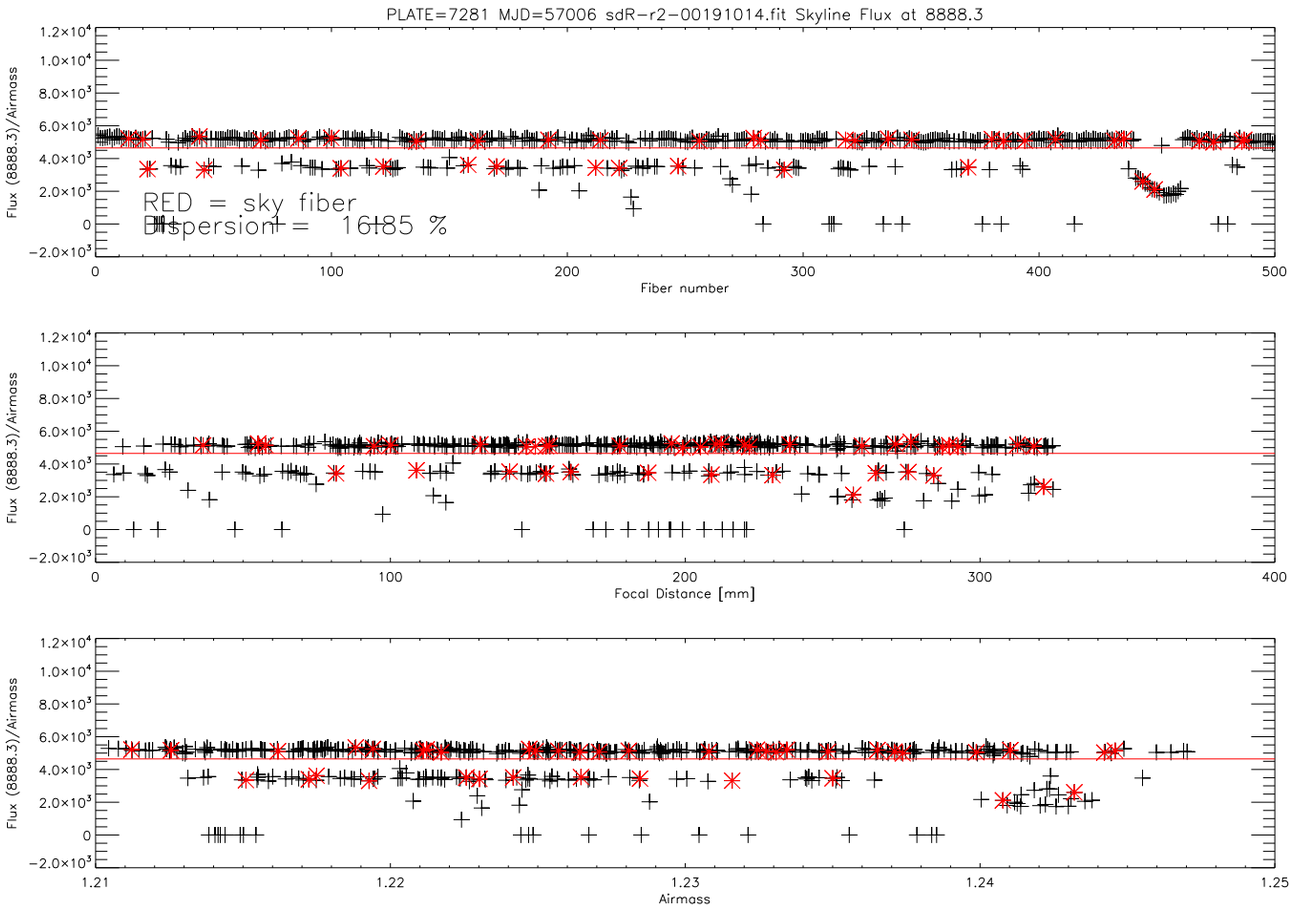

PLATE=7281 MJD=57006 sdR-r2-00191014.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

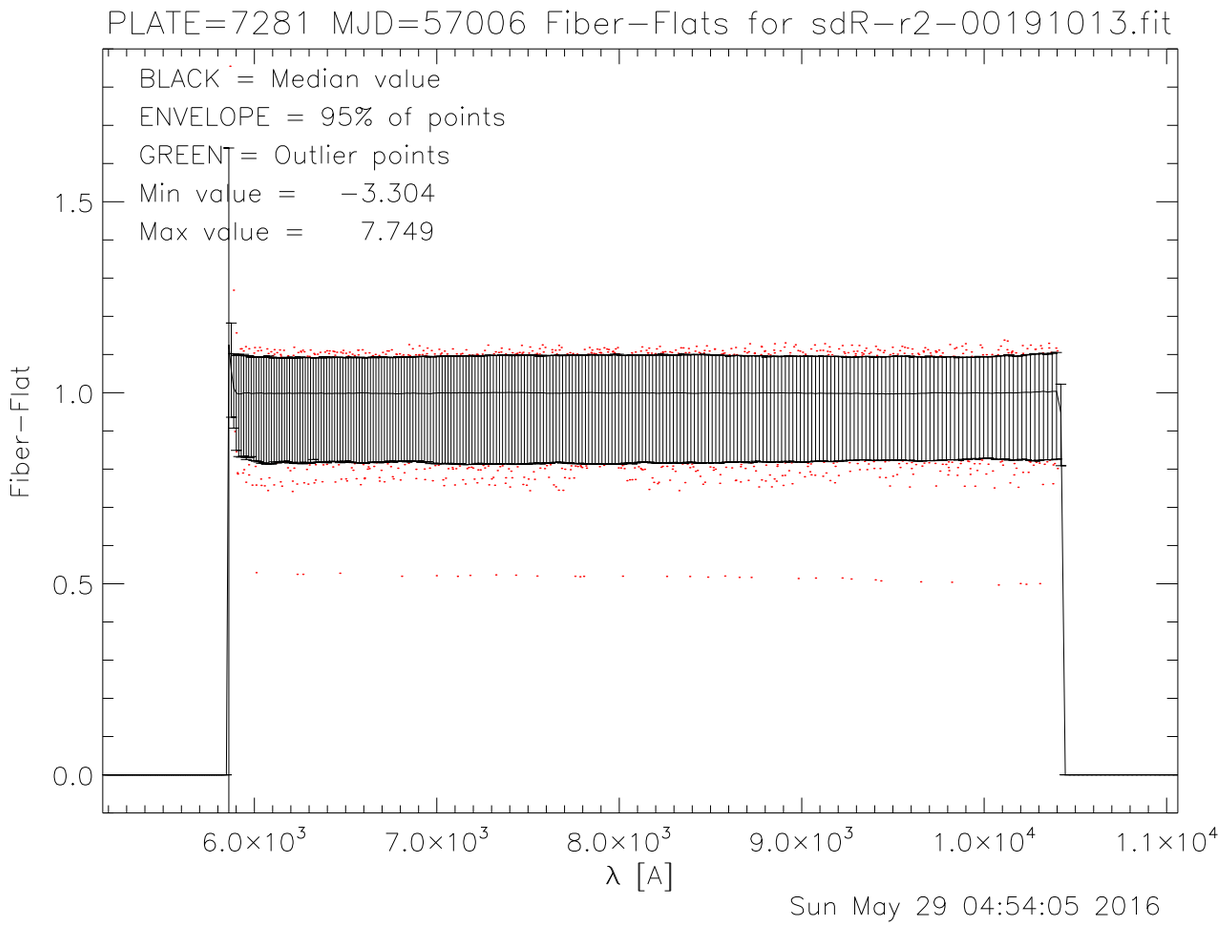

PLATE=7281 MJD=57006 sdR-r2-00191014.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
150
100
50
0
−50
−100
−150
8820
8840
8860
8880
8900
λ [A]

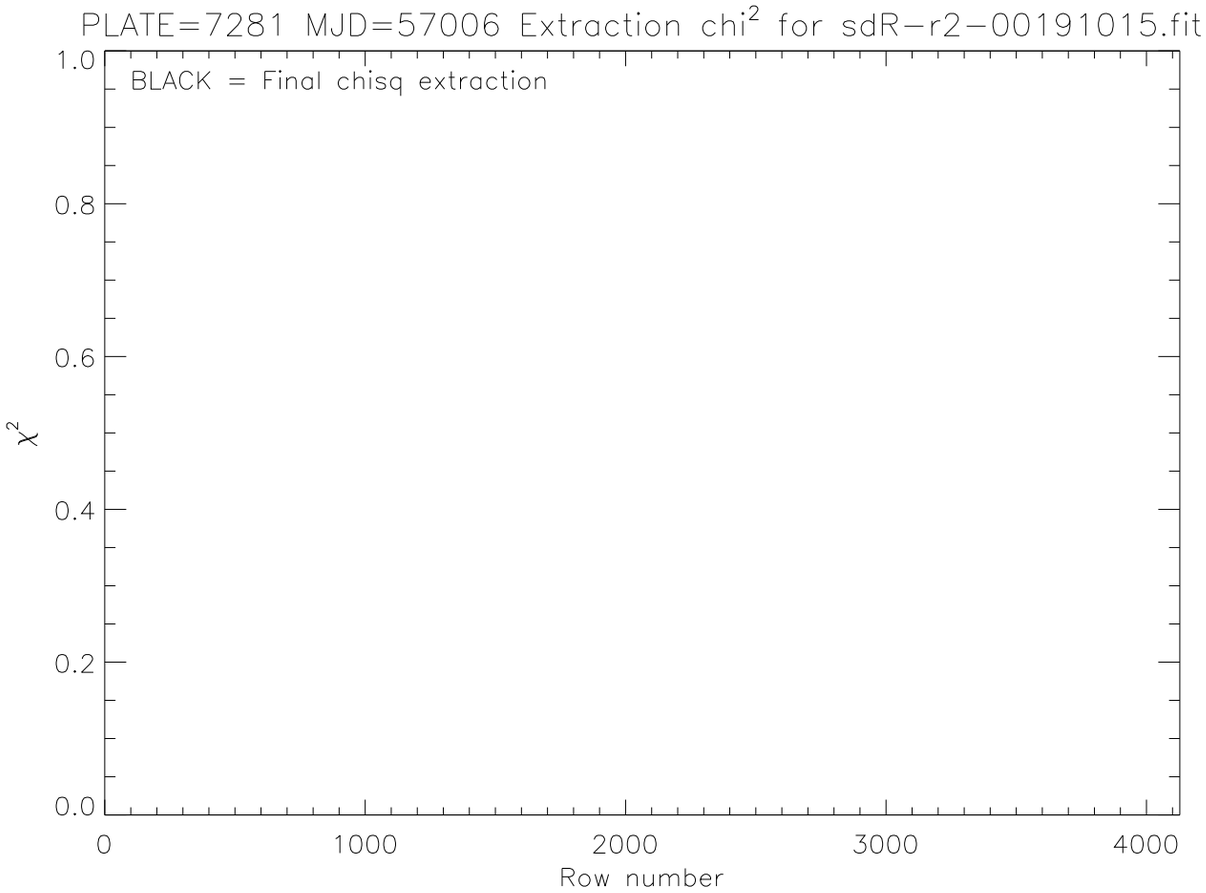
Number of sky fibers = 40

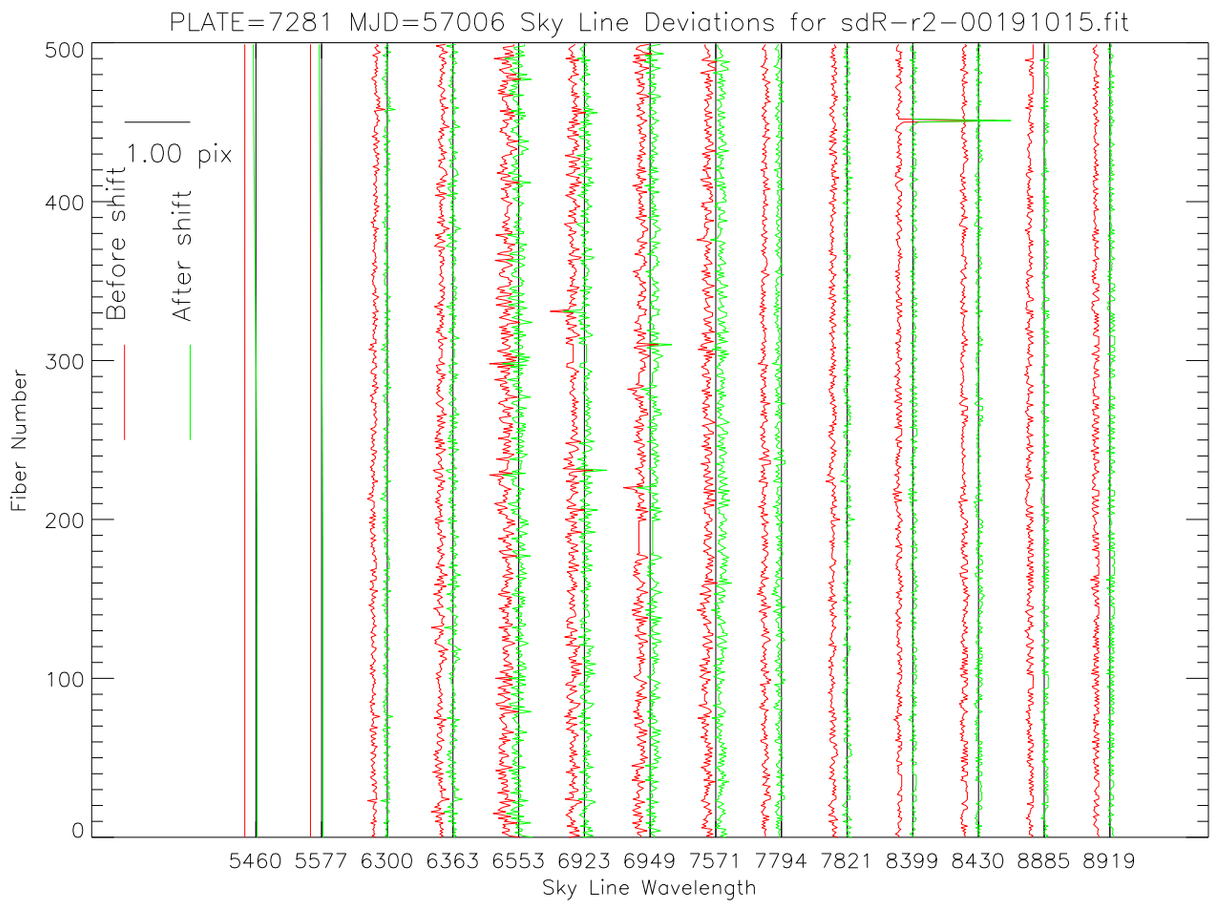


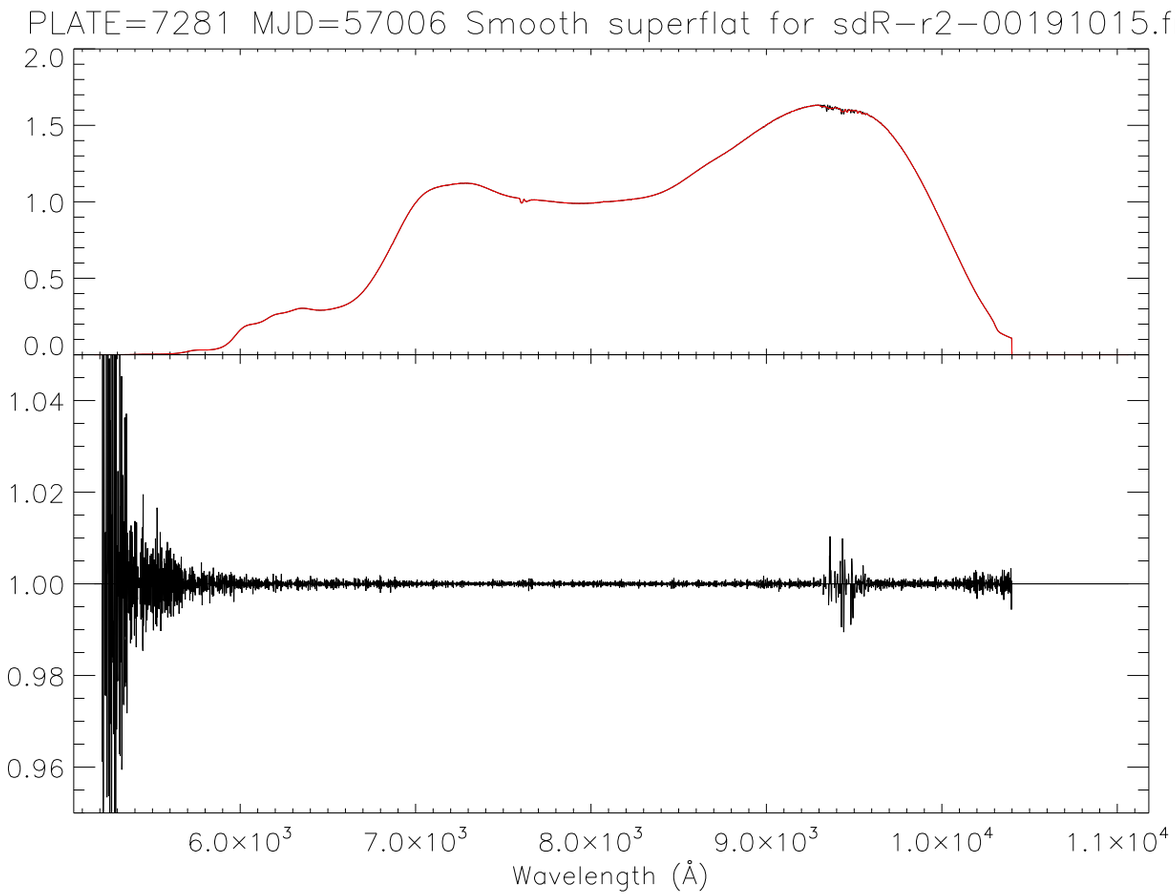

PLATE=7281 MJD=57006 sdR-r2-00191014.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.50 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

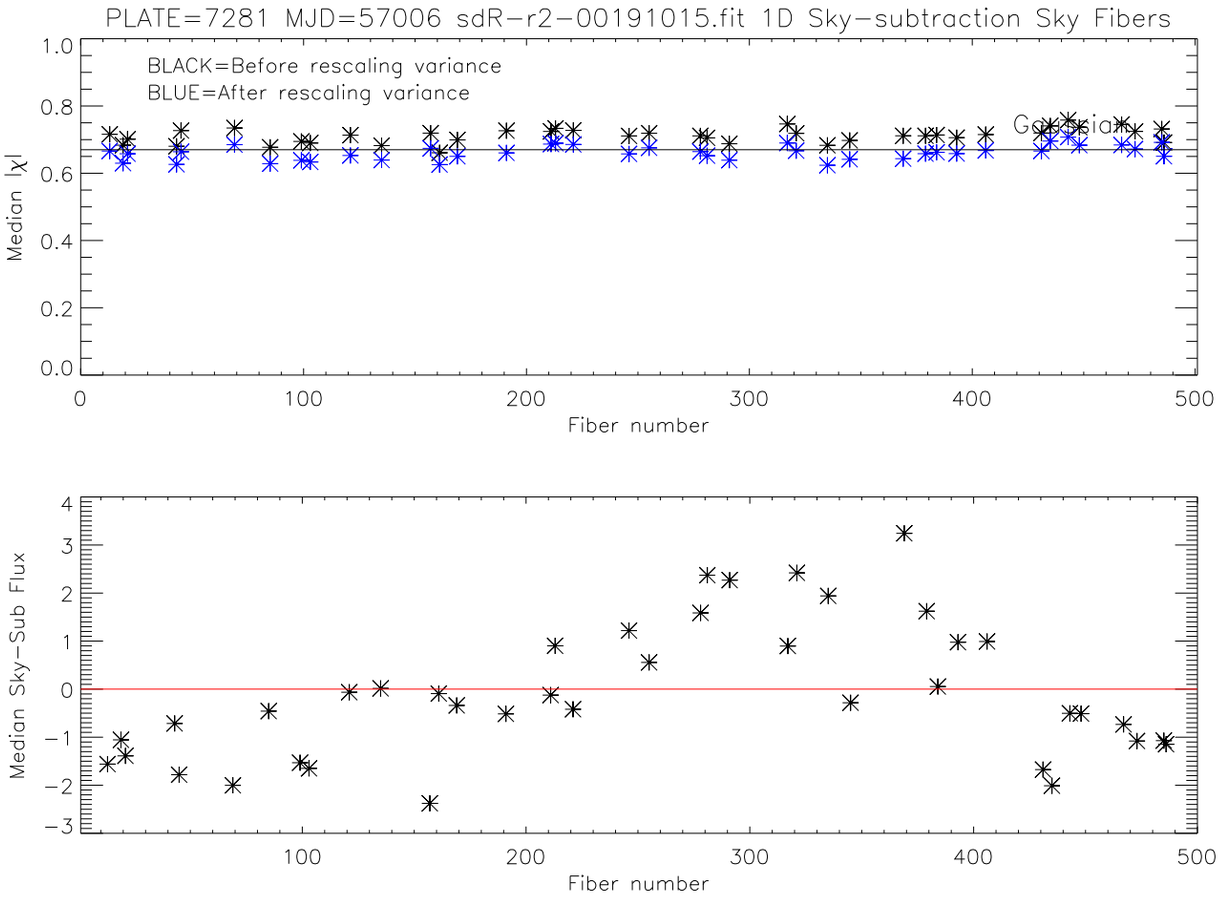

PLATE=7281 MJD=57006 sdR-r2-00191014.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 16.85 %
Focal Distance [mm]
Airmass

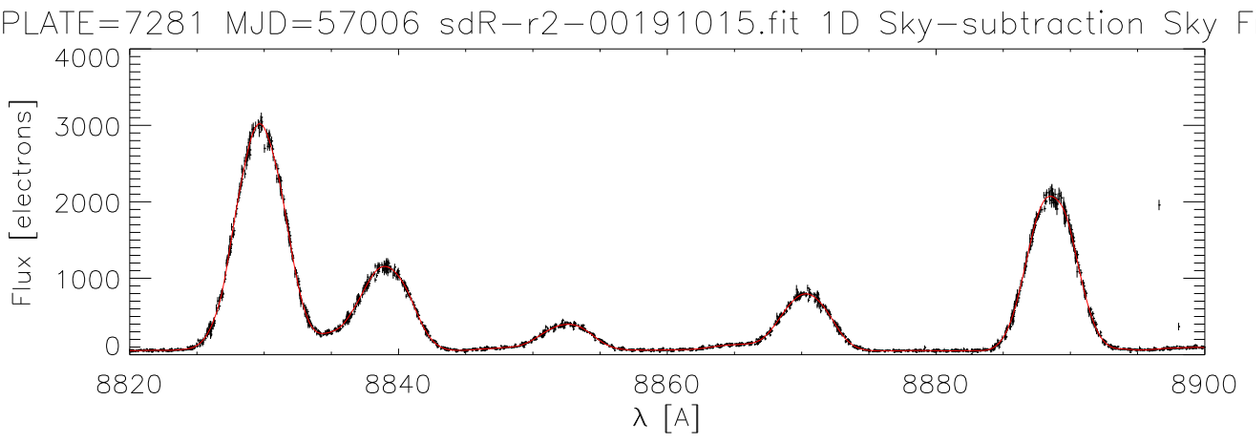

PLATE=7281 MJD=57006 Fiber-Flats for sdR-r2-00191013.fit
BLACK = Median value
ENVELOPE = 95% of points
GREENT = Outlier points
Min value = -3.304
Max value = 7.749
Fiber-Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Sun May 29 04:54:05 2016

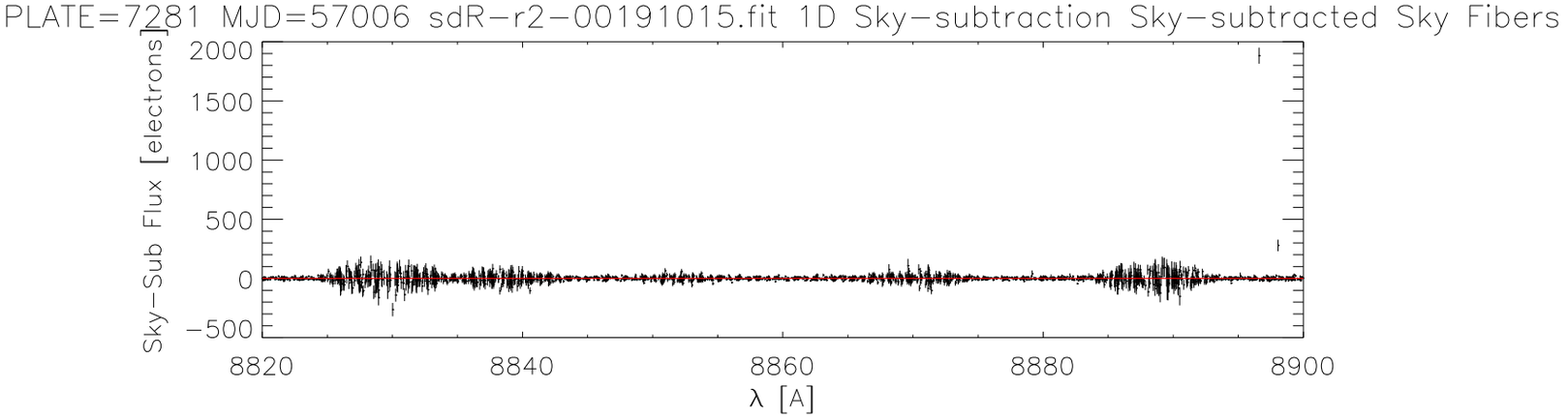

PLATE=7281 MJD=57006 Extraction chi^2 for sdR-r2-00191015.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=7281 MJD=57006 Sky Line Deviations for sdR-r2-00191015.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

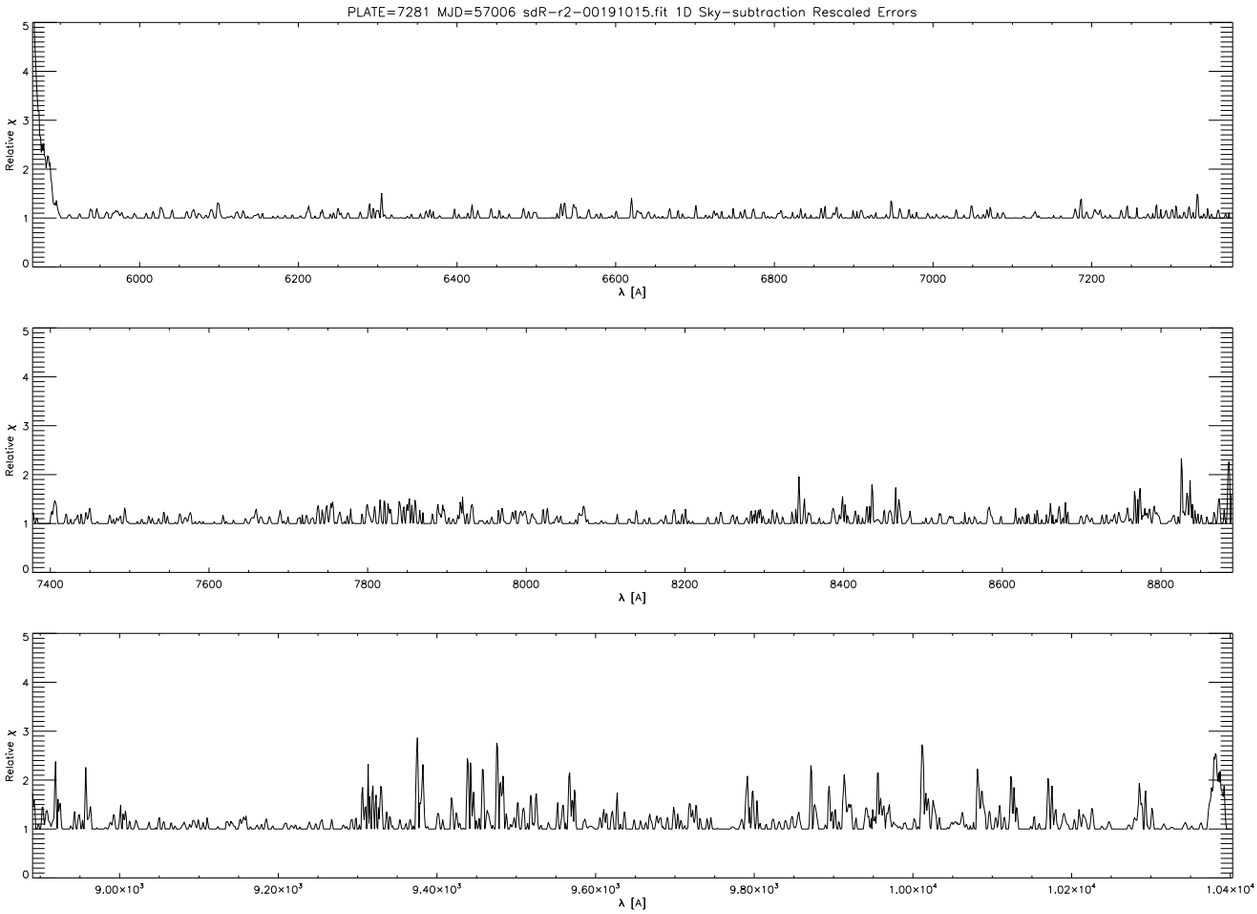

PLATE=7281 MJD=57006 Smooth superflat for sdR-r2-00191015.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

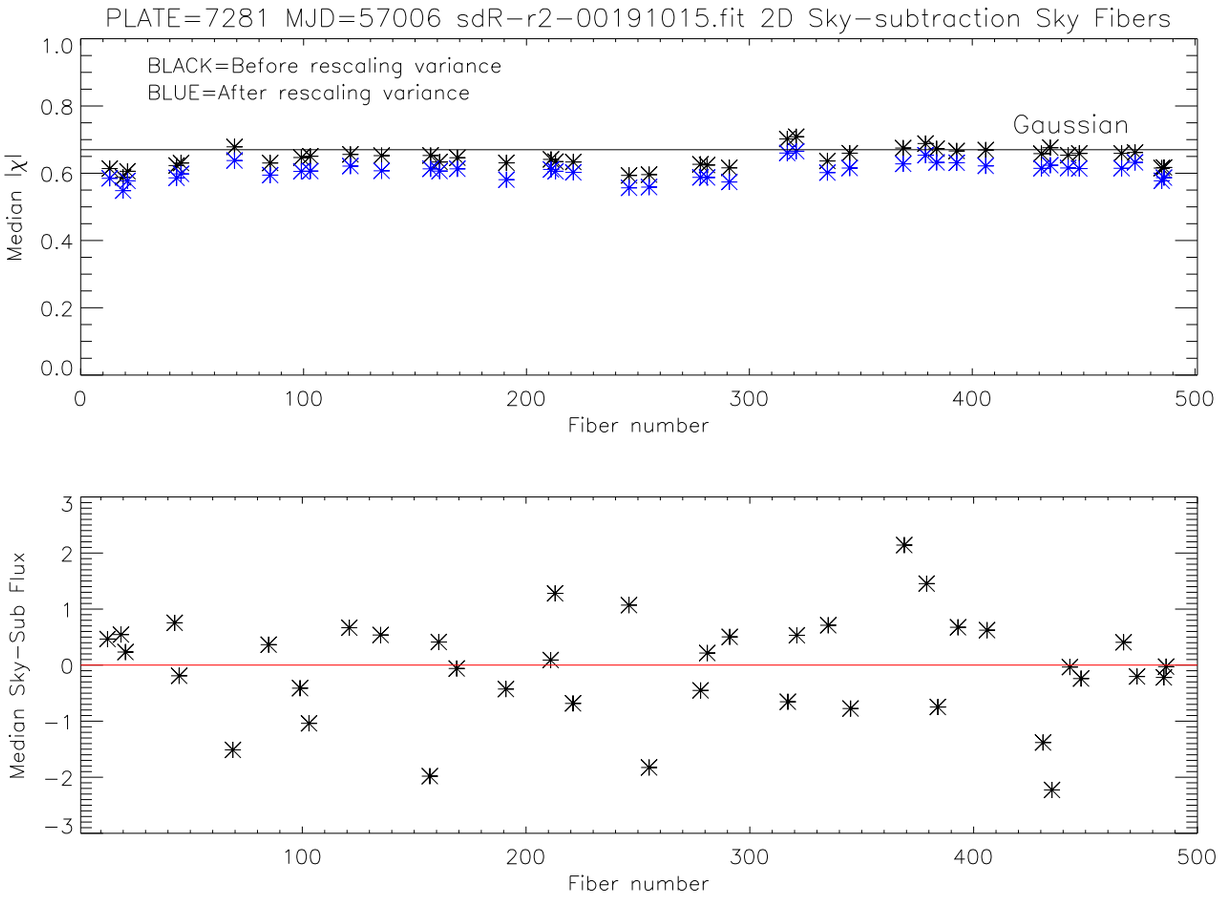

PLATE=7281 MJD=57006 sdR-r2-00191015.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

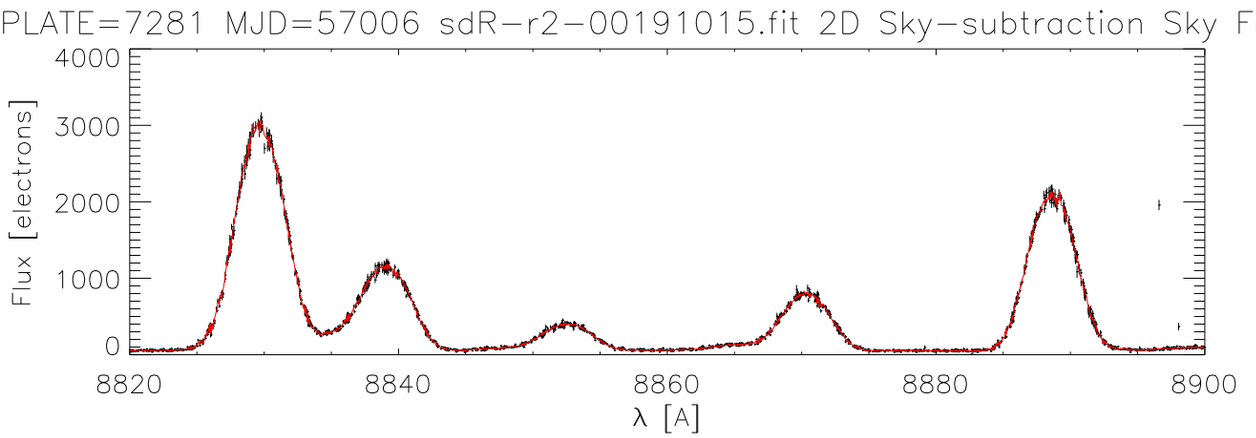

PLATE=7281 MJD=57006 sdR-r2-00191015.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

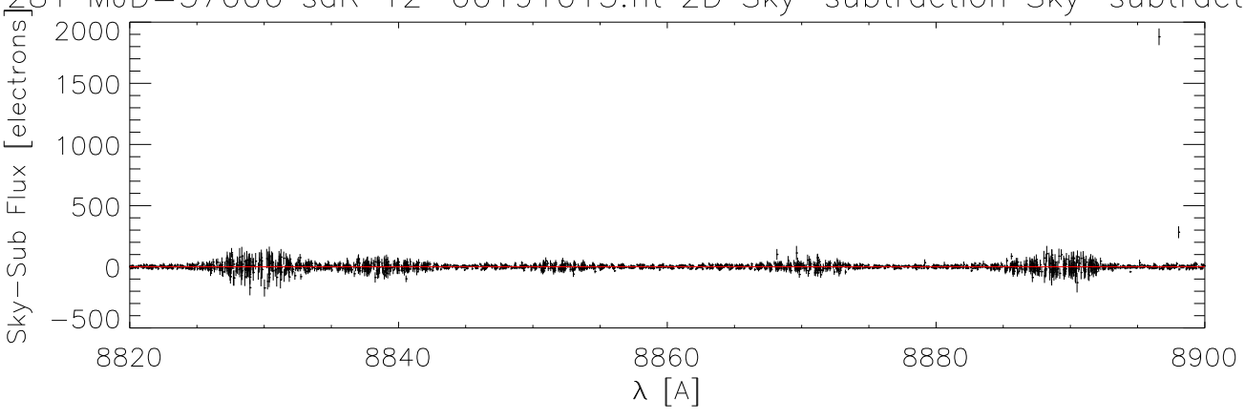

PLATE=7281 MJD=57006 sdR-r2-00191015.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 40

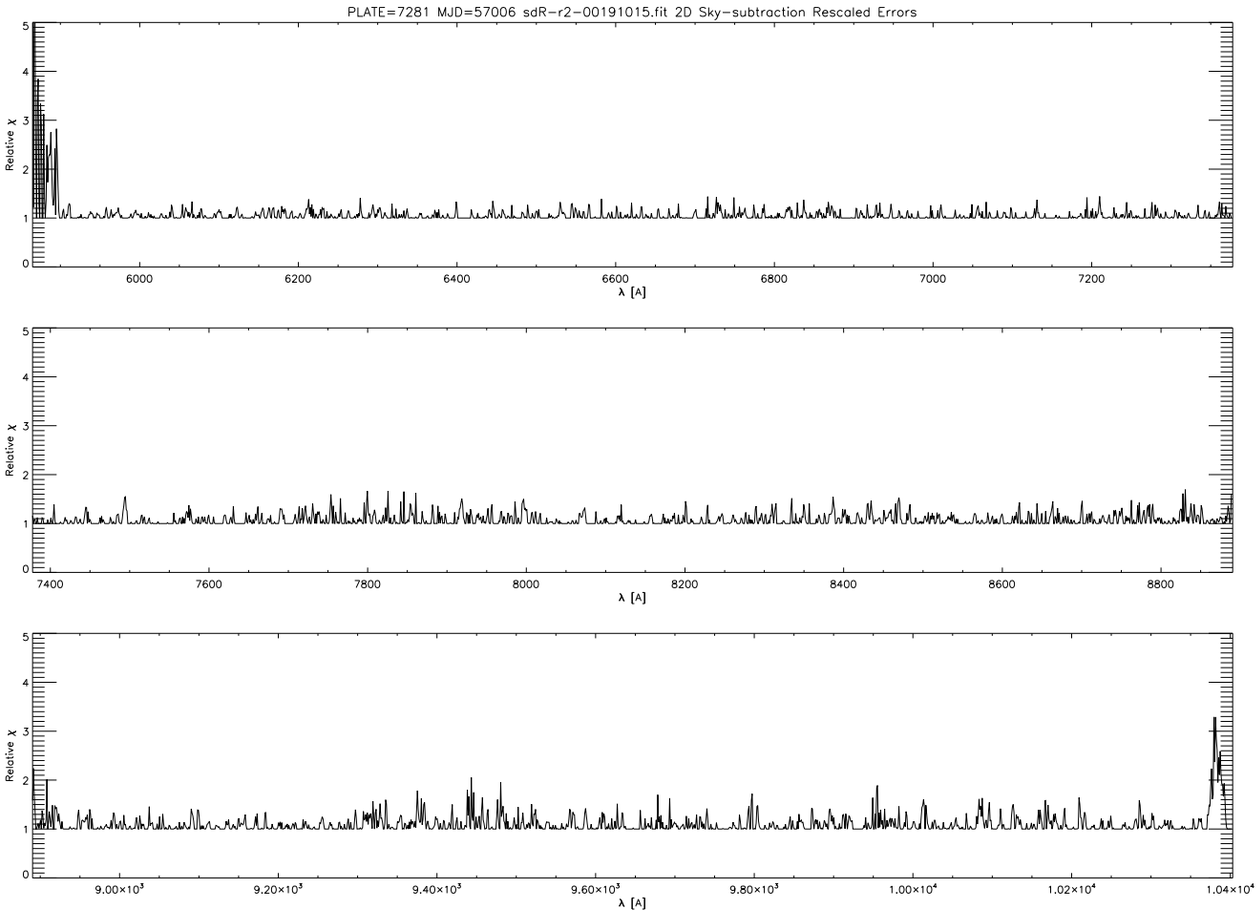


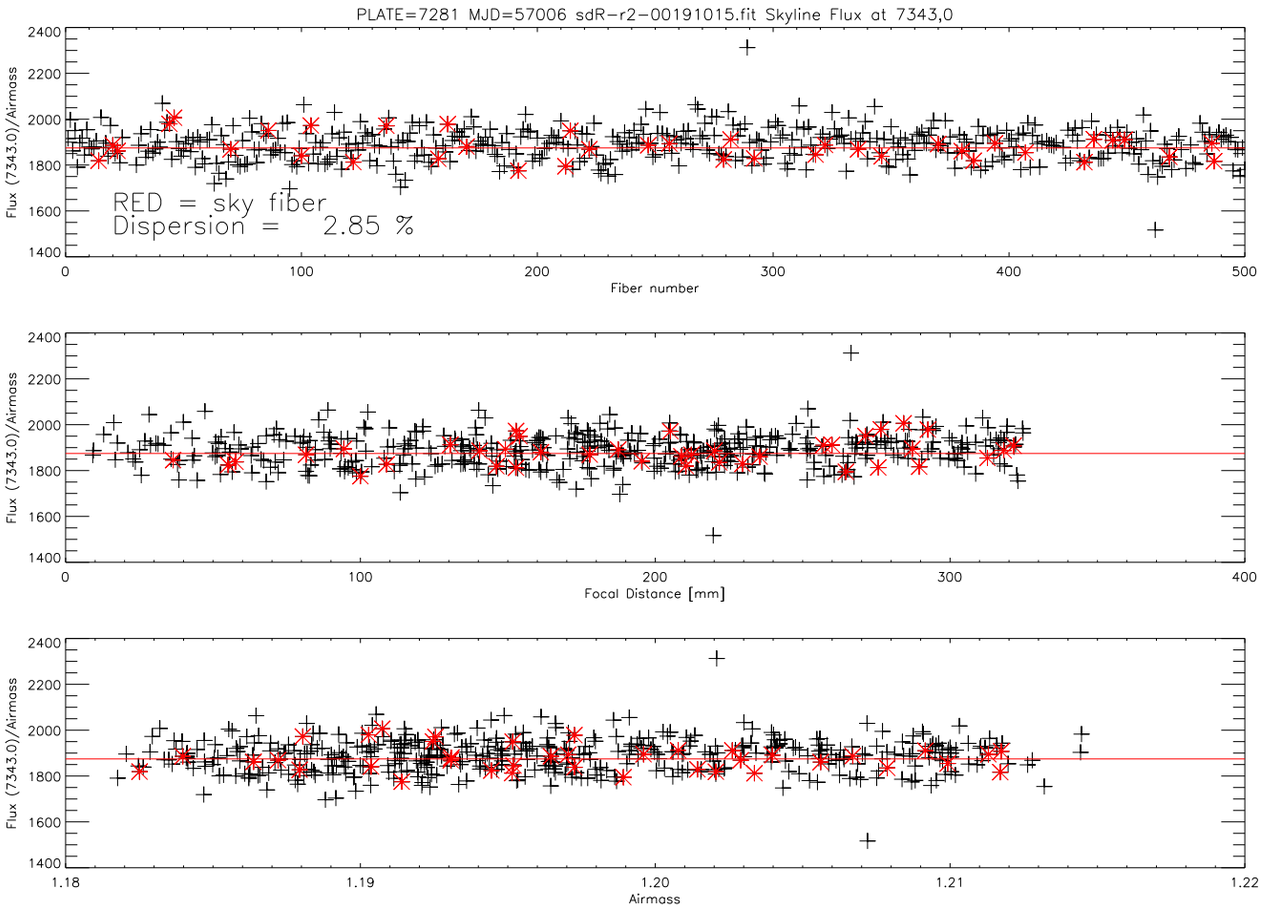

PLATE=7281 MJD=57006 sdR-r2-00191015.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

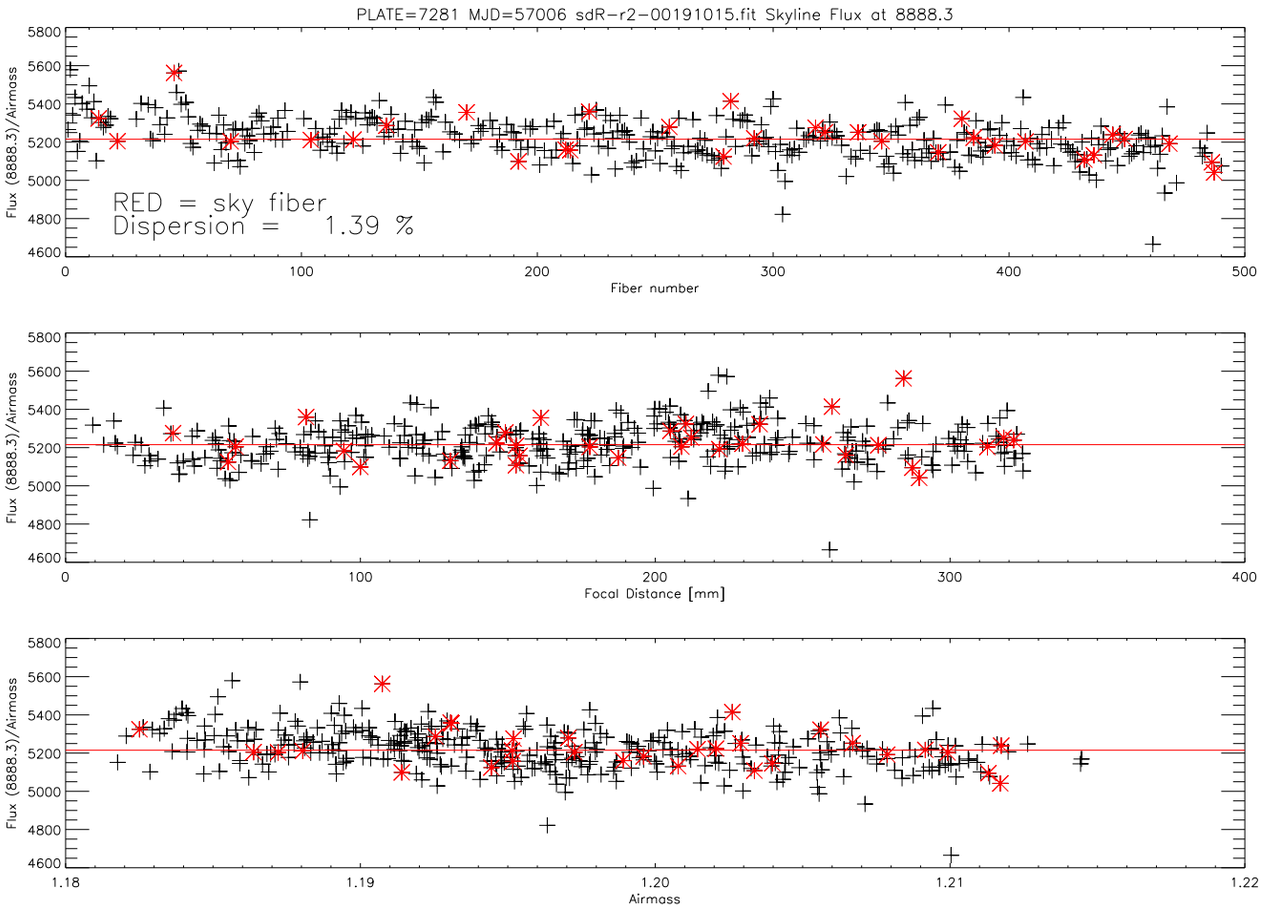

PLATE=7281 MJD=57006 sdR-r2-00191015.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

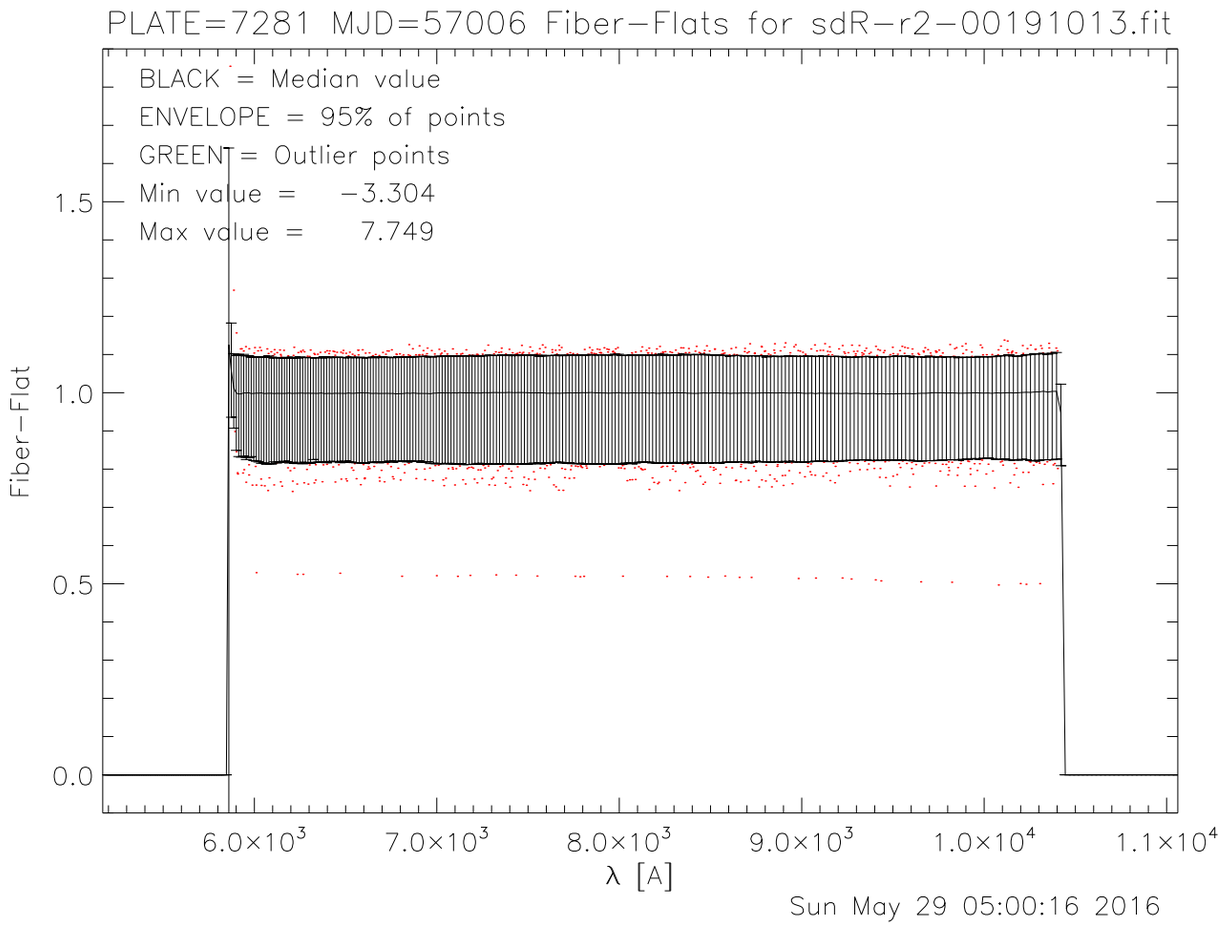

PLATE=7281 MJD=57006 sdR-r2-00191015.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

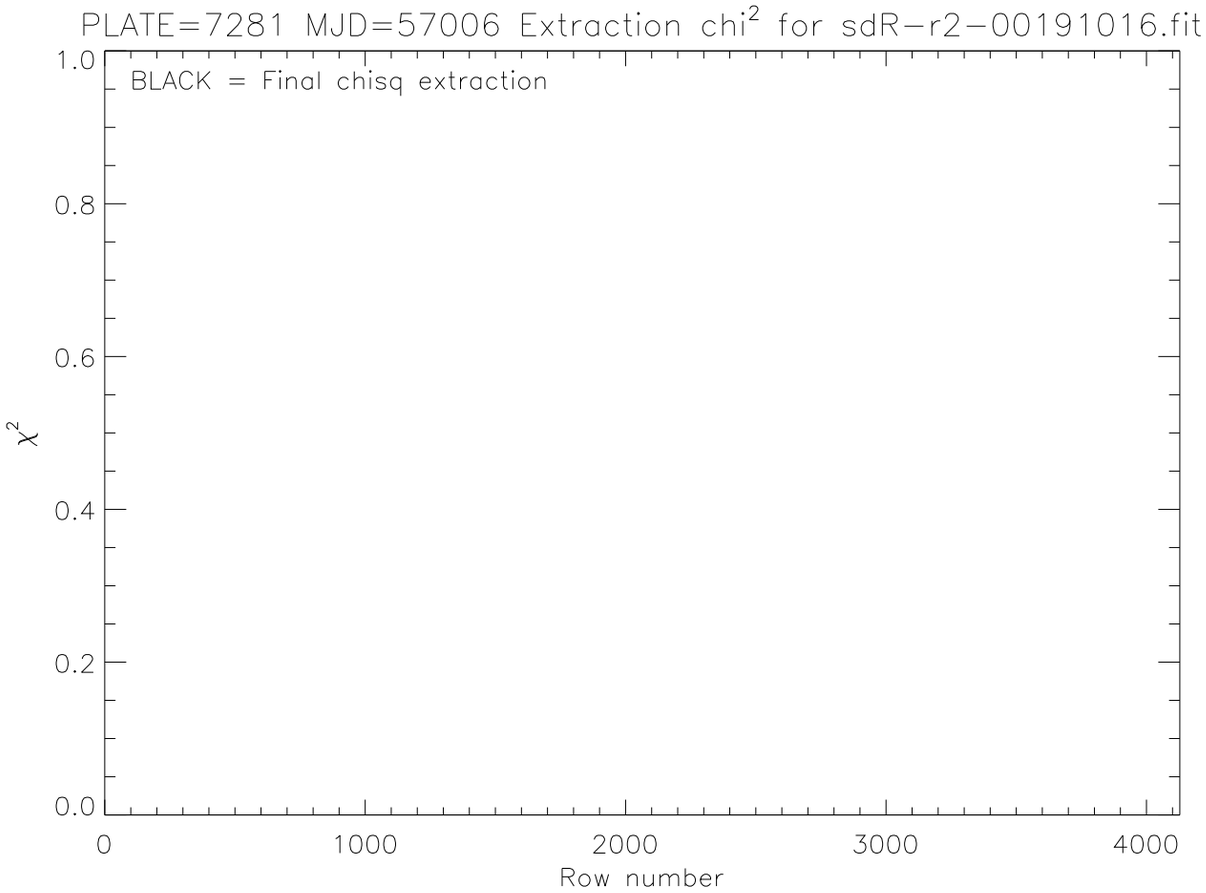
Number of sky fibers = 40

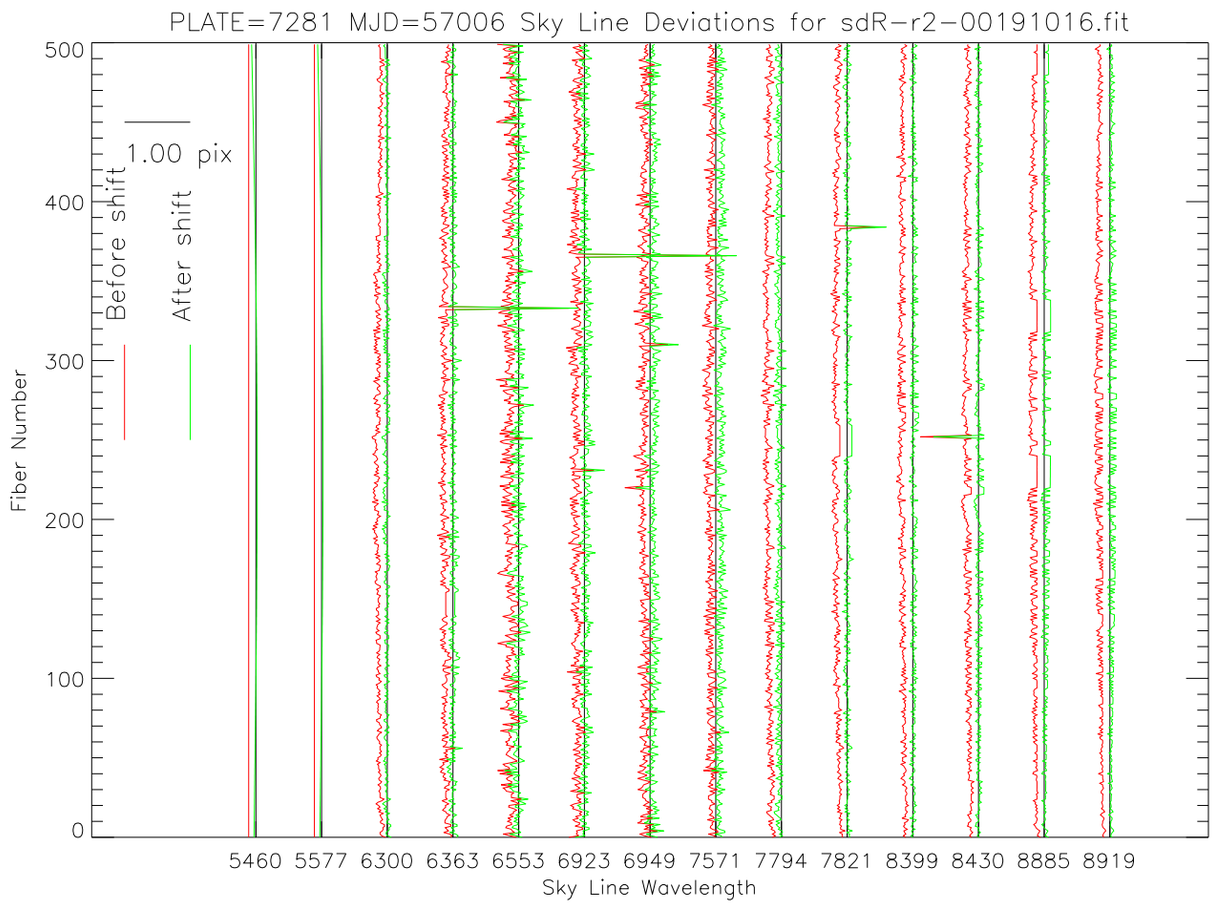


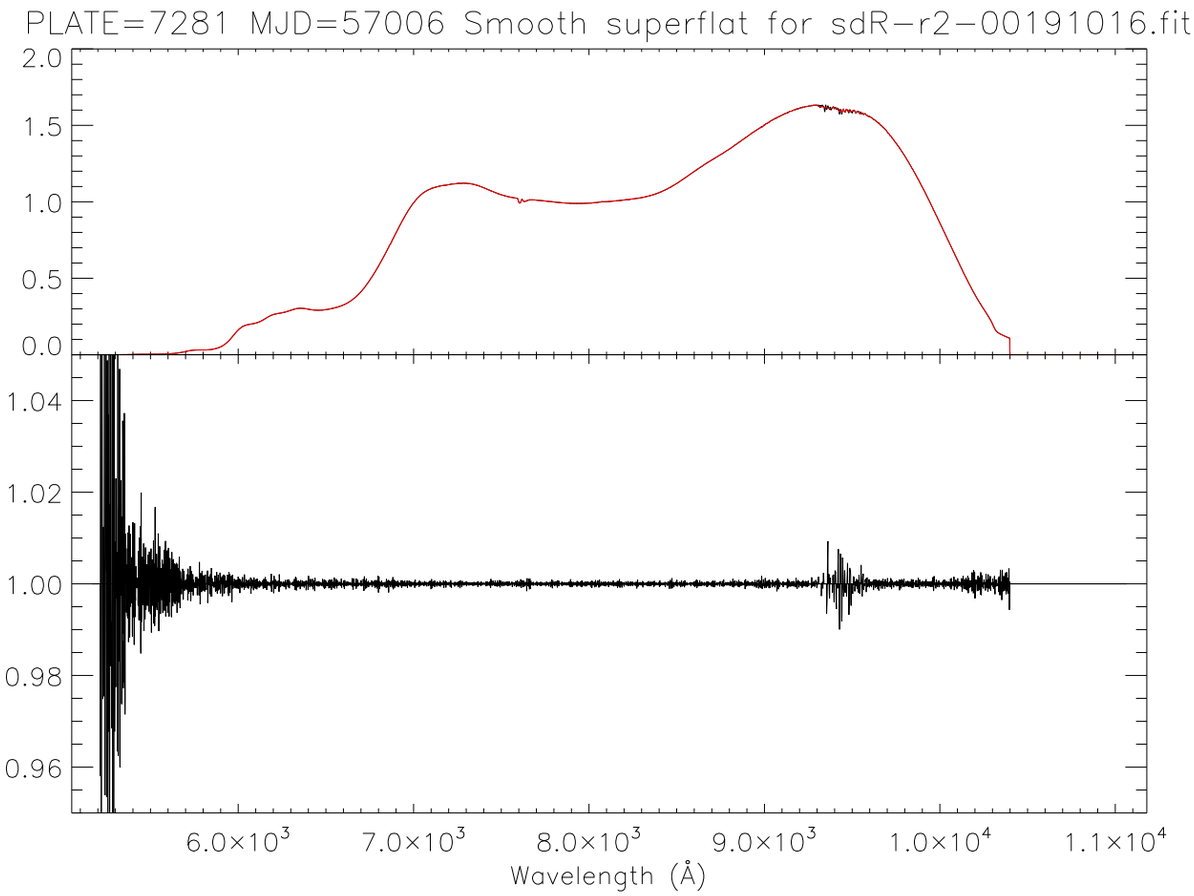

PLATE=7281 MJD=57006 sdR-r2-00191015.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.85 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

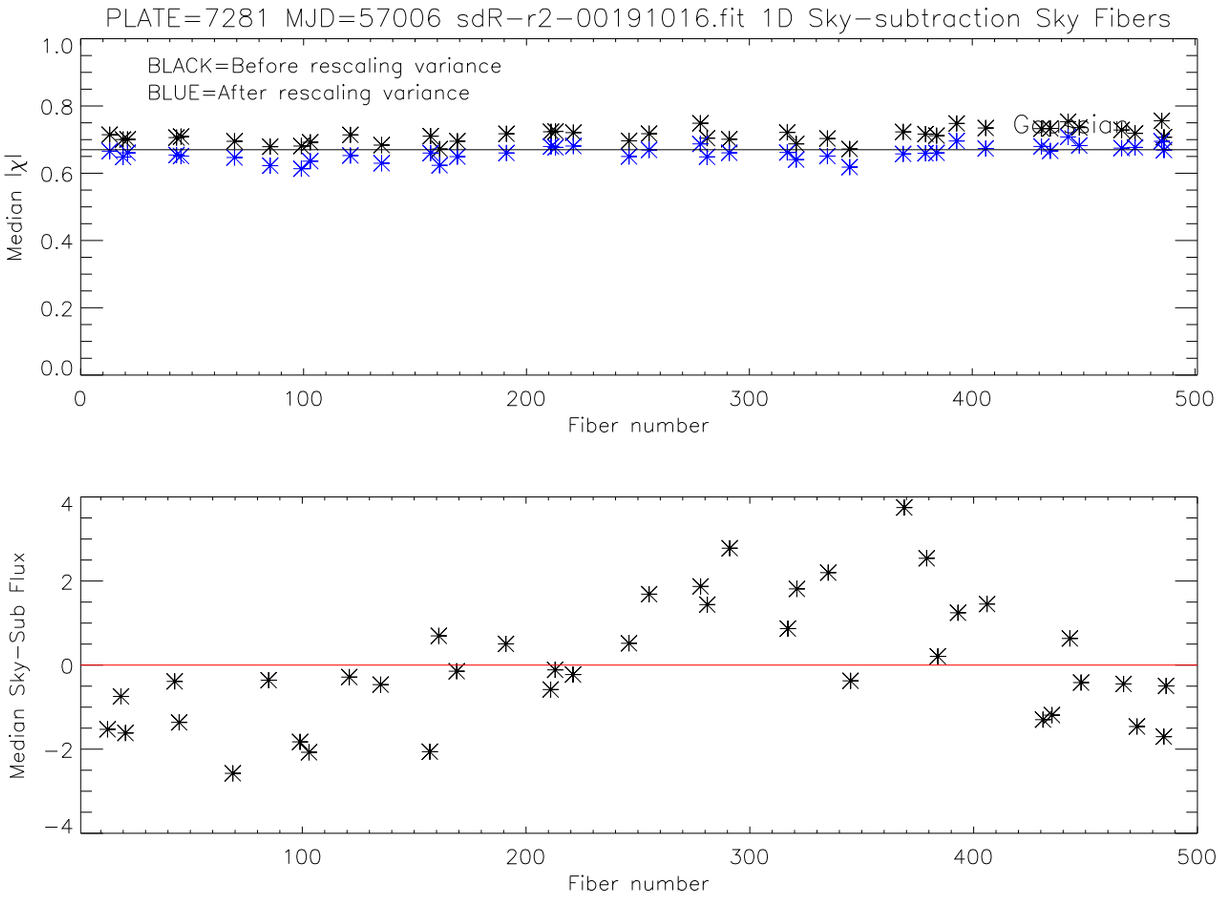

PLATE=7281 MJD=57006 sdR-r2-00191015.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.39 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

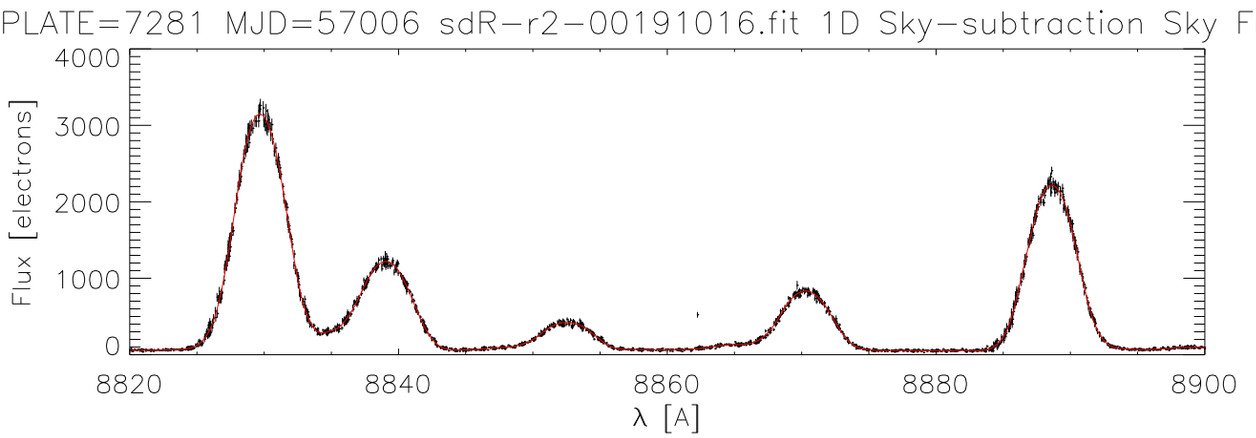

PLATE=7281 MJD=57006 Fiber-Flats for sdR-r2-00191013.fit
BLACK = Median value
ENVELOPE = 95% of points
GREENT = Outlier points
Min value = -3.304
Max value = 7.749
Fiber-Flat
1.5
1.0
0.5
0.0
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
λ [A]
Sun May 29 05:00:16 2016

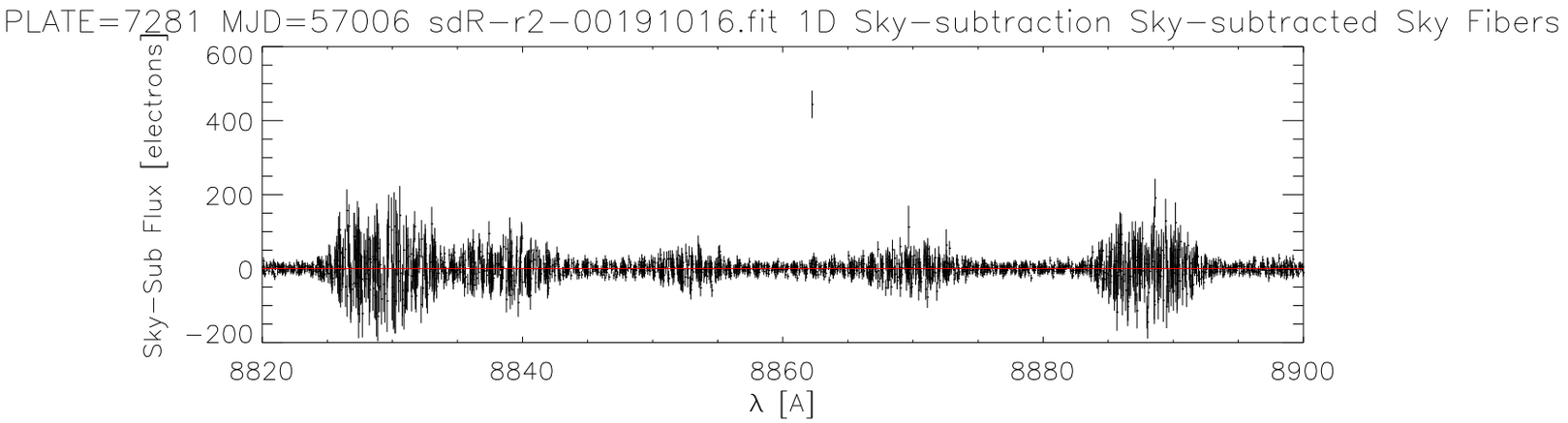

PLATE=7281 MJD=57006 Extraction chi^2 for sdR-r2-00191016.fit
BLACK = Final chisq extraction
1.0
0.8
0.6
0.4
0.2
0.0
χ^2
0
1000
2000
3000
4000
Row number


PLATE=7281 MJD=57006 Sky Line Deviations for sdR-r2-00191016.fit
1.00 pix
Before shift
After shift
Fiber Number
500
400
300
200
100
0
5460 5577 6300 6363 6553 6923 6949 7571 7794 7821 8399 8430 8885 8919
Sky Line Wavelength

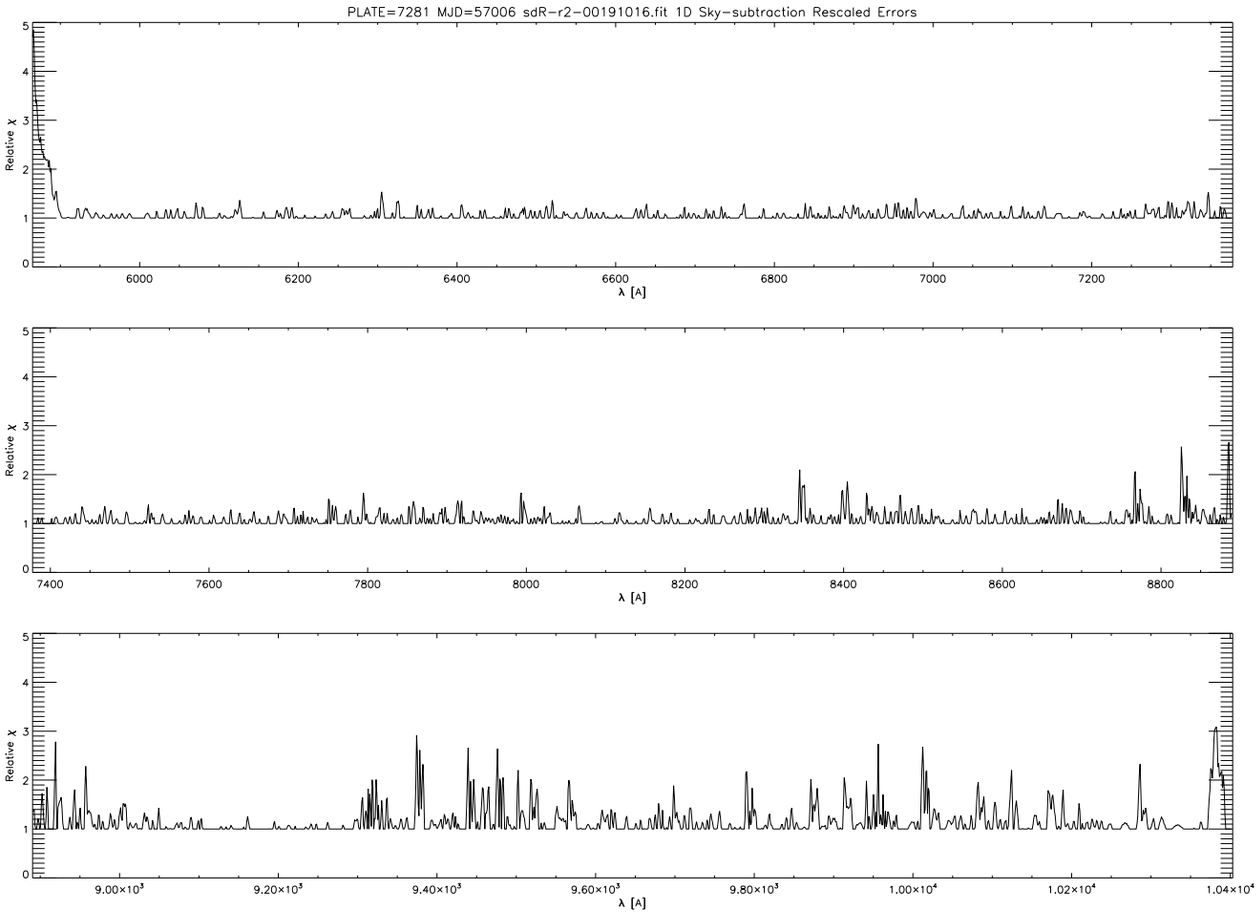

PLATE=7281 MJD=57006 Smooth superflat for sdR-r2-00191016.fit
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
6.0×10^3
7.0×10^3
8.0×10^3
9.0×10^3
1.0×10^4
1.1×10^4
Wavelength (Å)

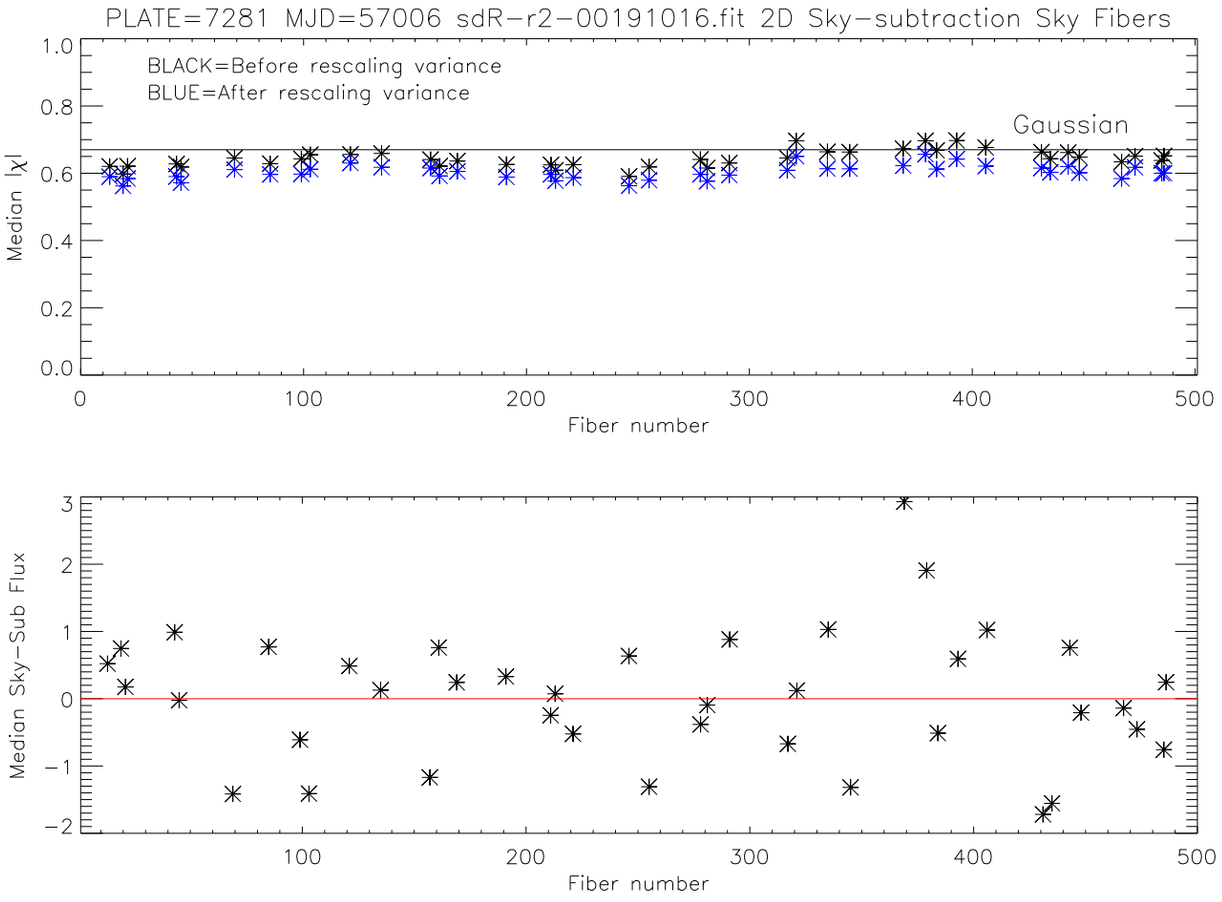

PLATE=7281 MJD=57006 sdR-r2-00191016.fit 1D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

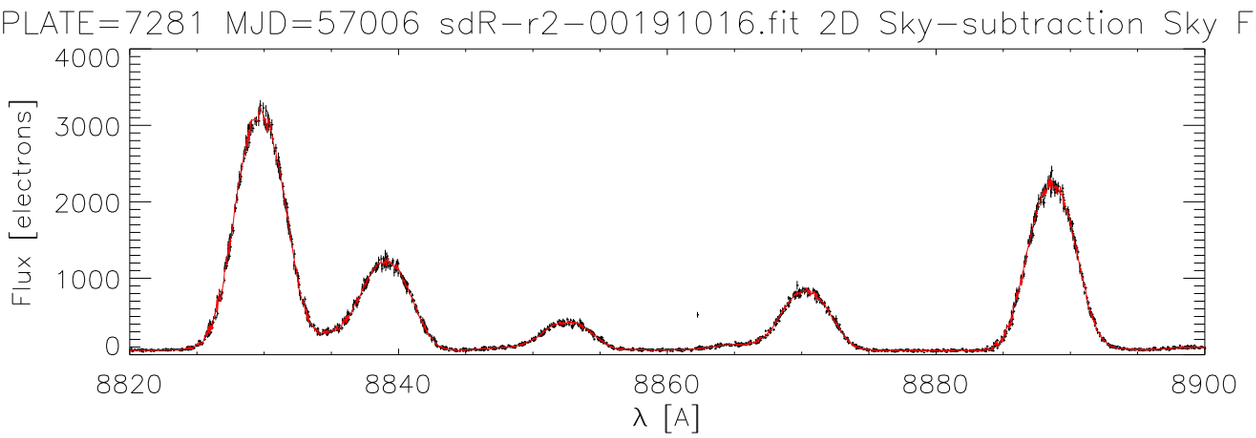

PLATE=7281 MJD=57006 sdR-r2-00191016.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

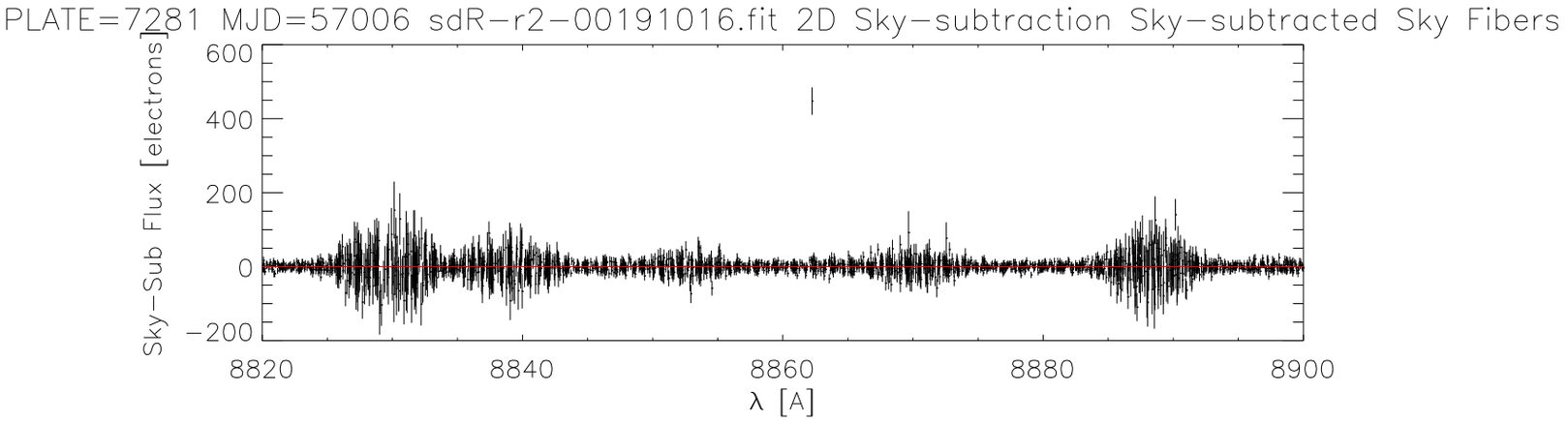

PLATE=7281 MJD=57006 sdR-r2-00191016.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 40

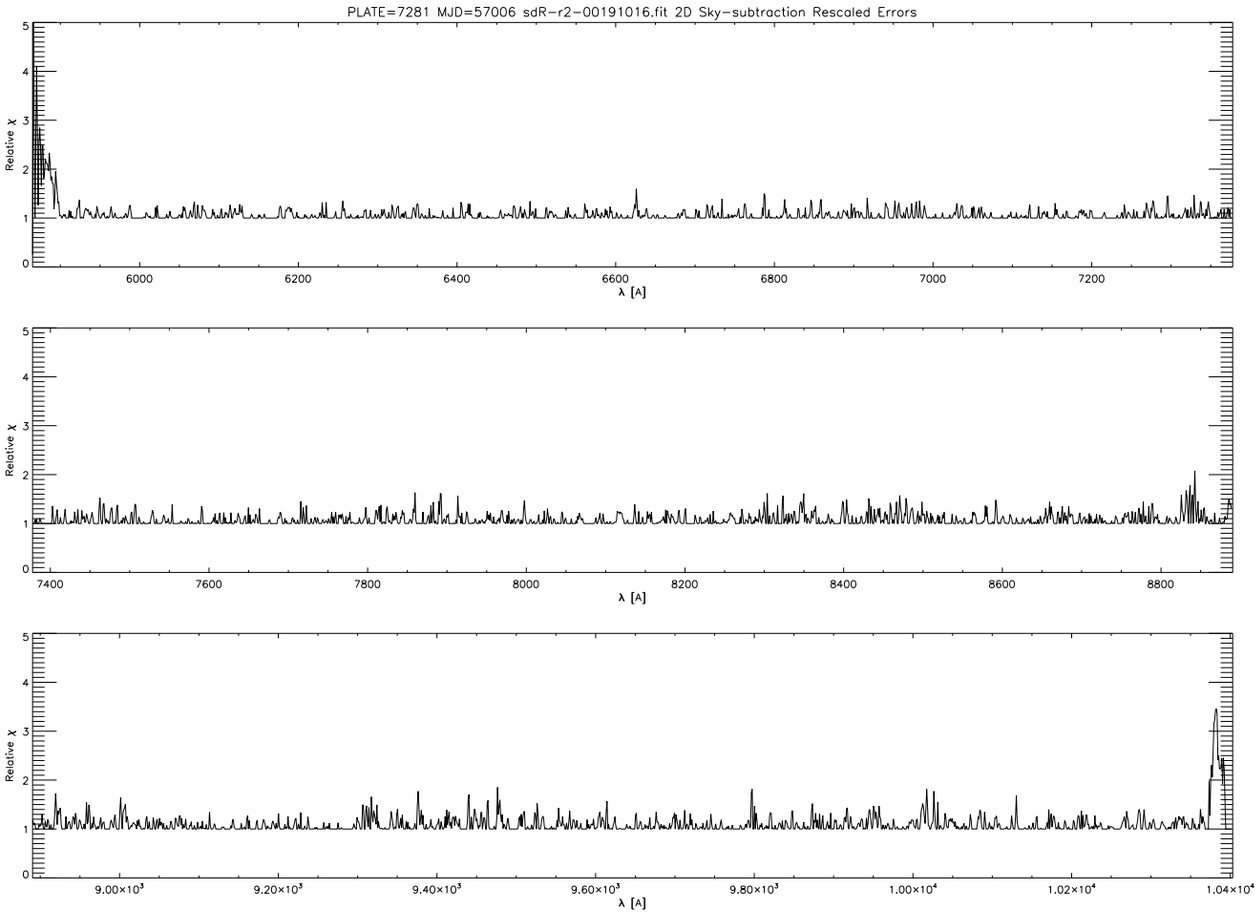


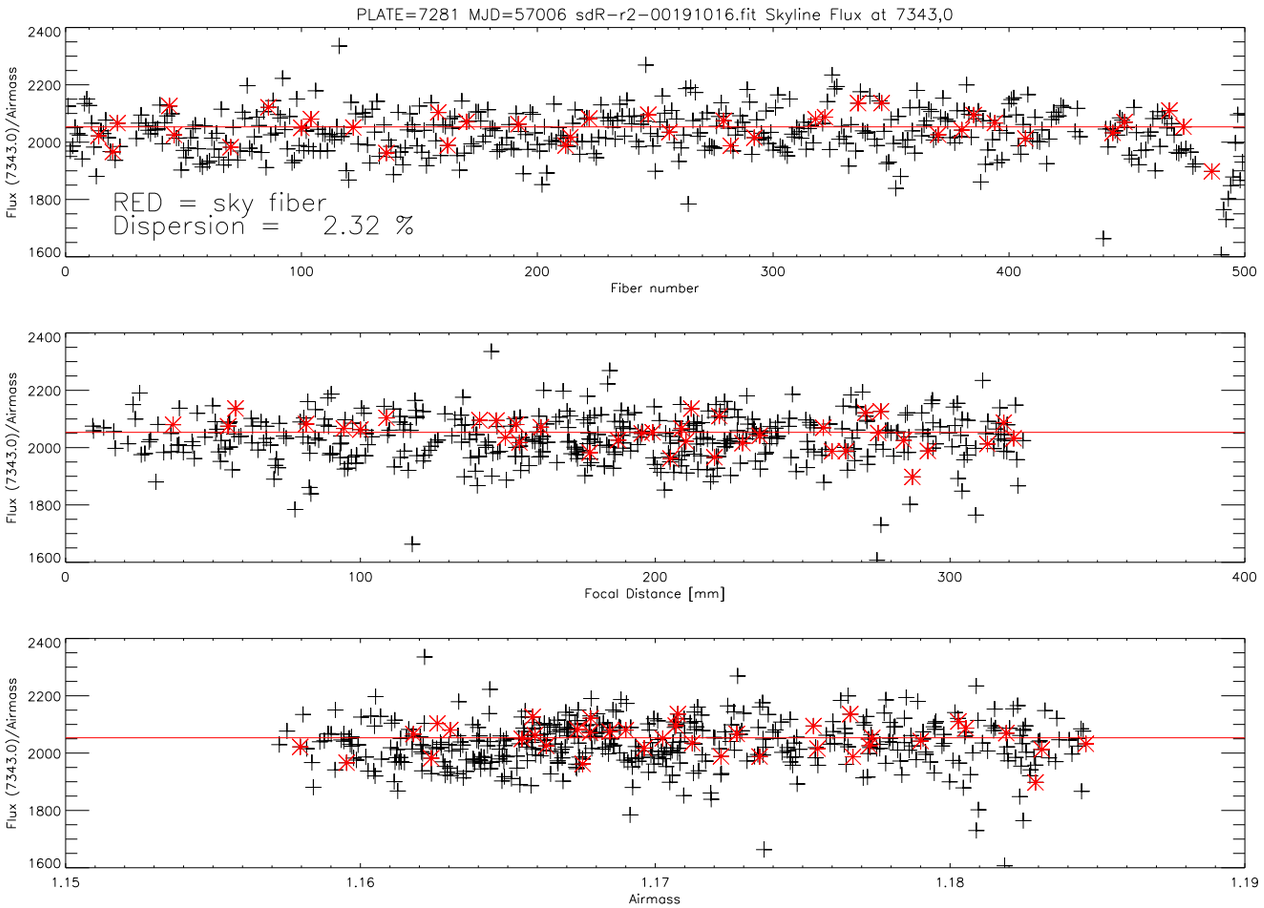

PLATE=7281 MJD=57006 sdR-r2-00191016.fit 2D Sky-subtraction Sky Fibers
BLACK=Before rescaling variance
BLUE=After rescaling variance
Gaussian
Median |χ|
Fiber number
Median Sky-Sub Flux
Fiber number

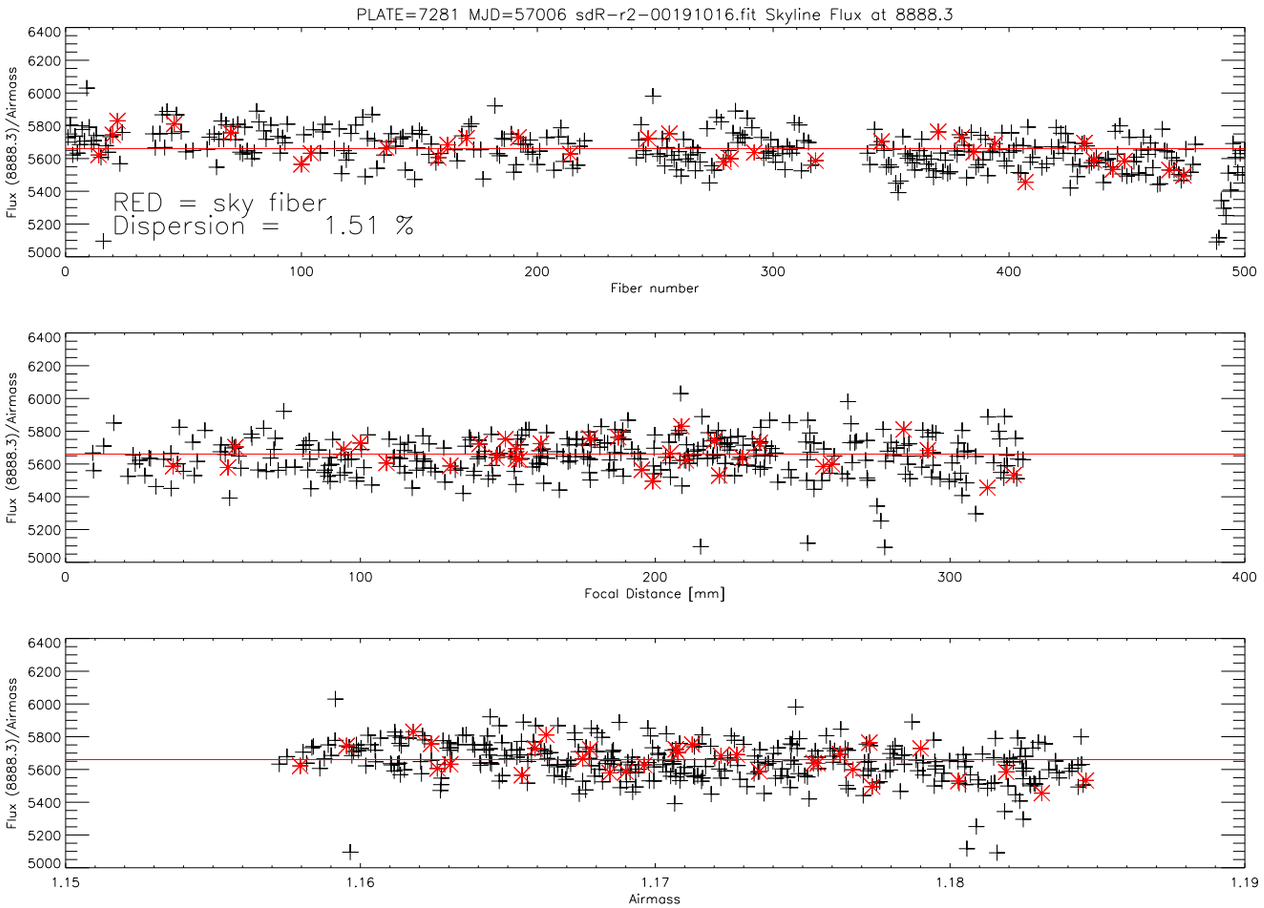

PLATE=7281 MJD=57006 sdR-r2-00191016.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]


PLATE=7281 MJD=57006 sdR-r2-00191016.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 = 40




PLATE=7281 MJD=57006 sdR-r2-00191016.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.32 %
Fiber number
Focal Distance [mm]
Airmass


PLATE=7281 MJD=57006 sdR-r2-00191016.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.51 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass