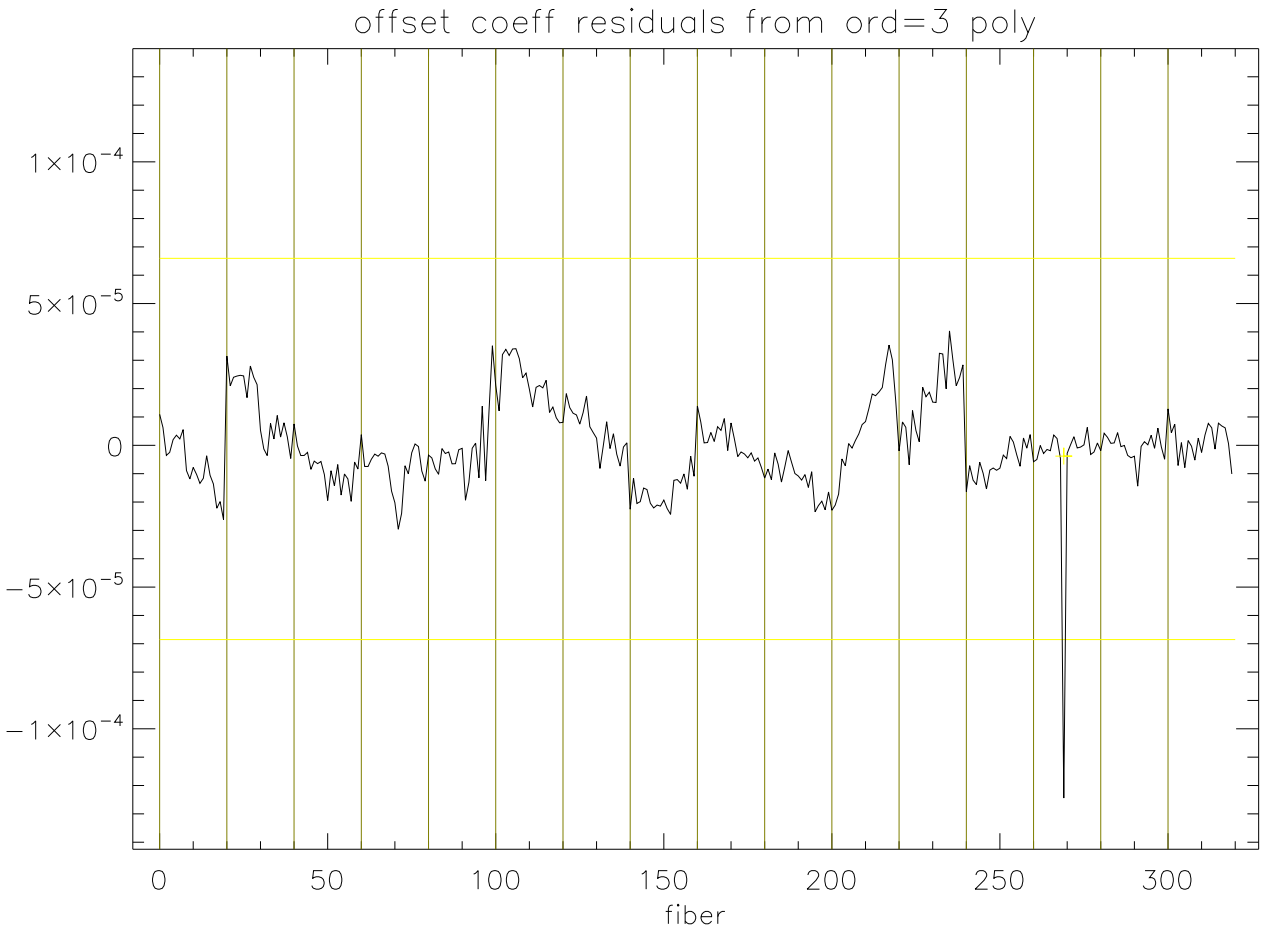
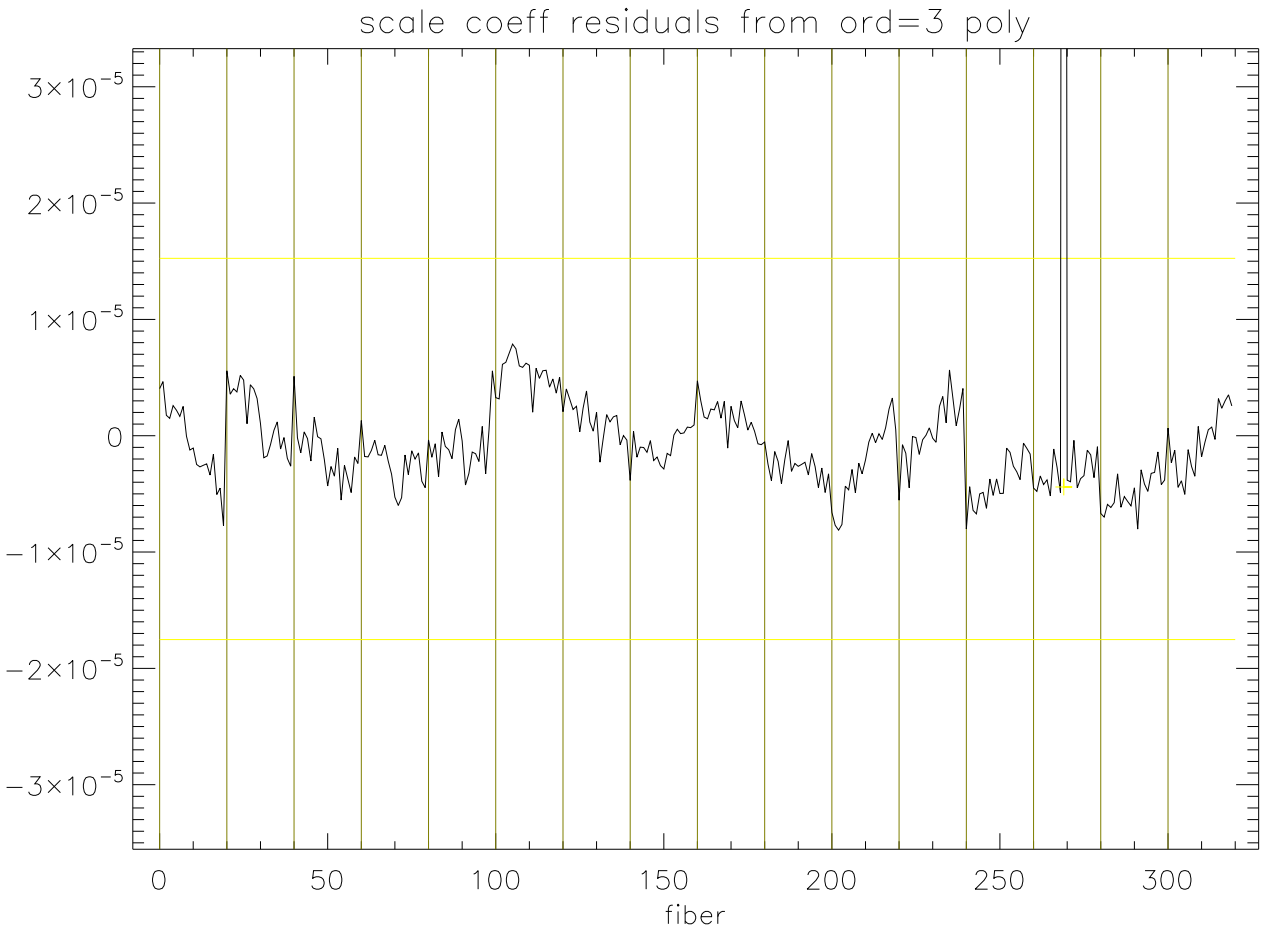
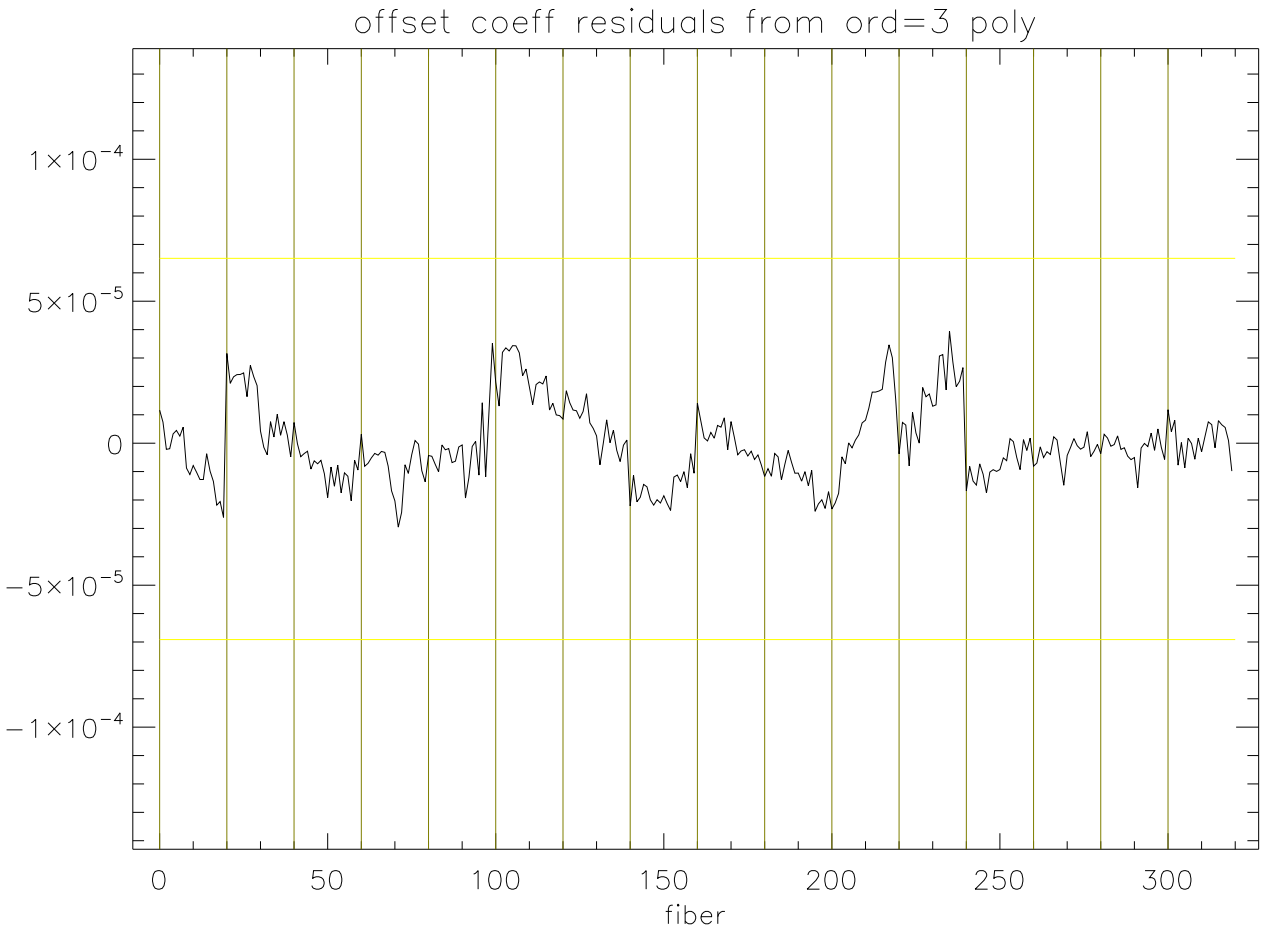
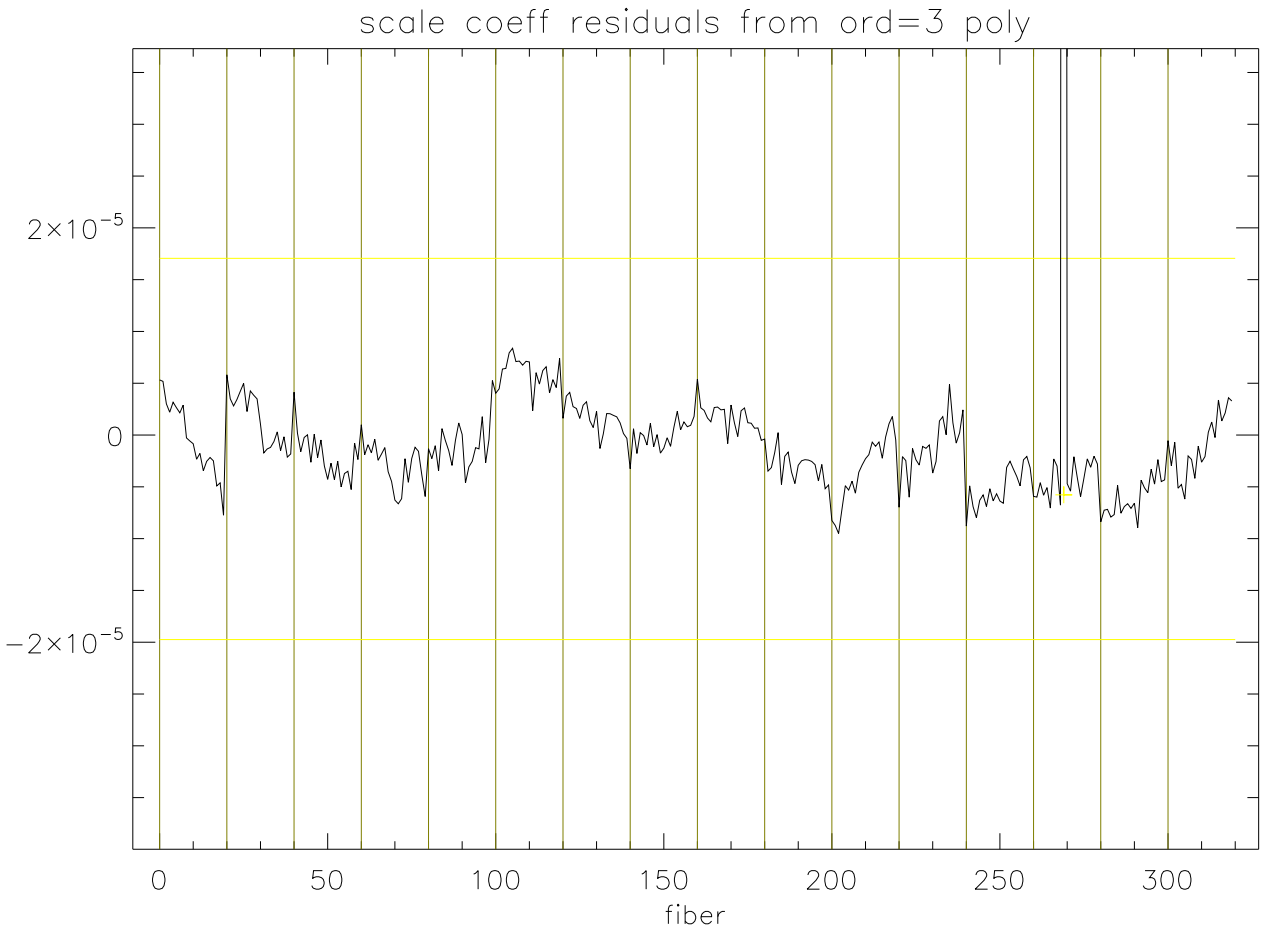
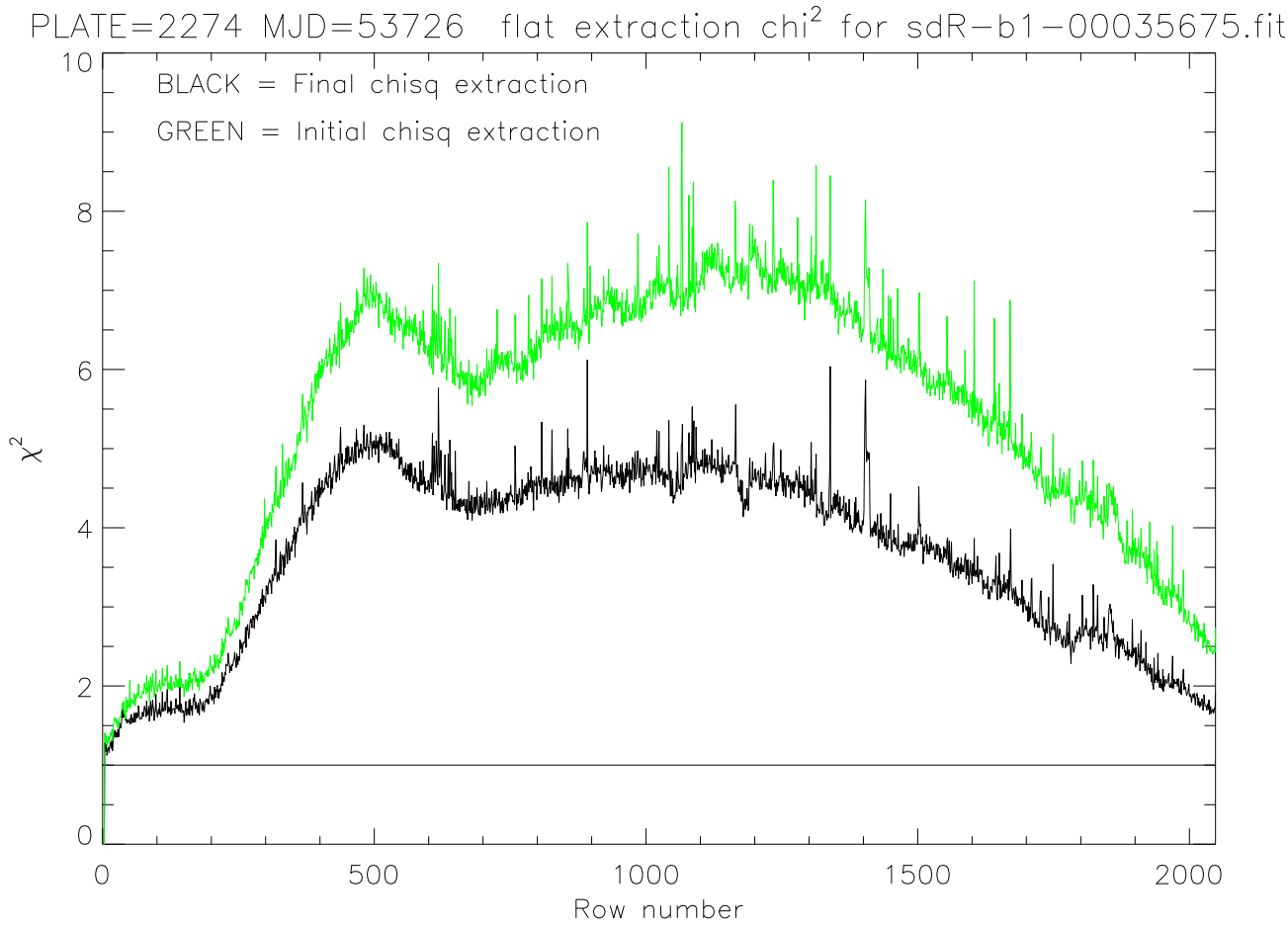
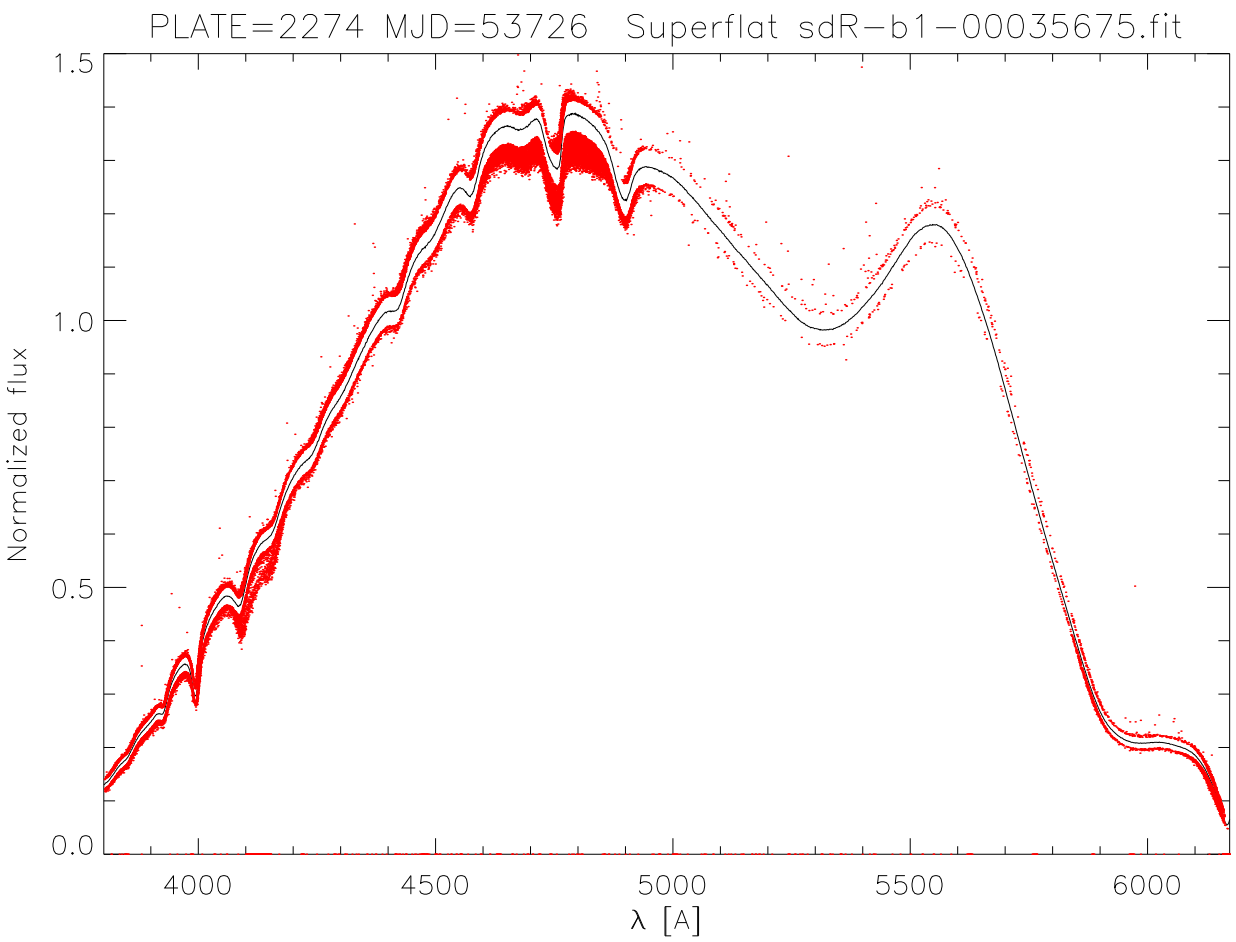

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

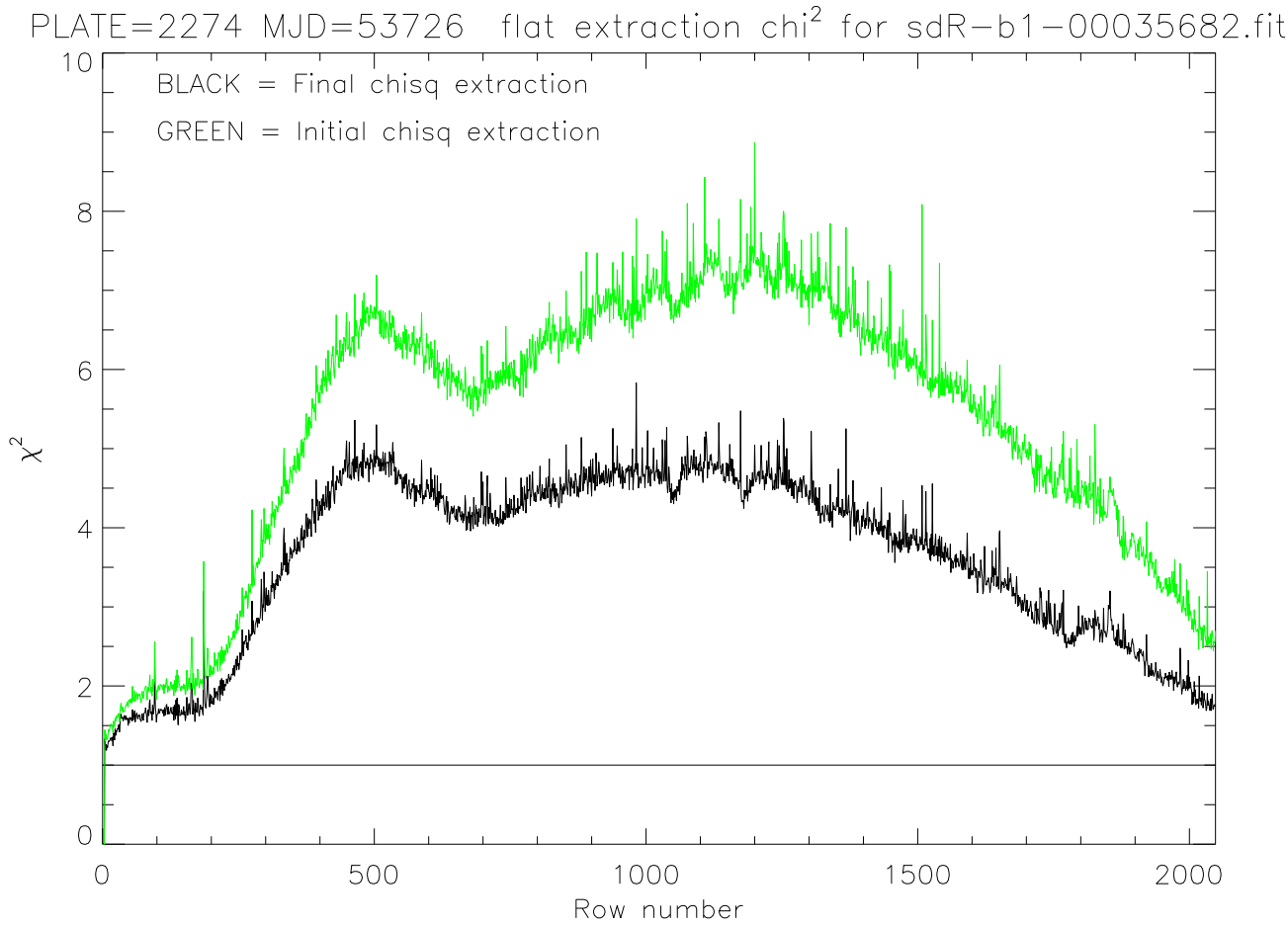

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

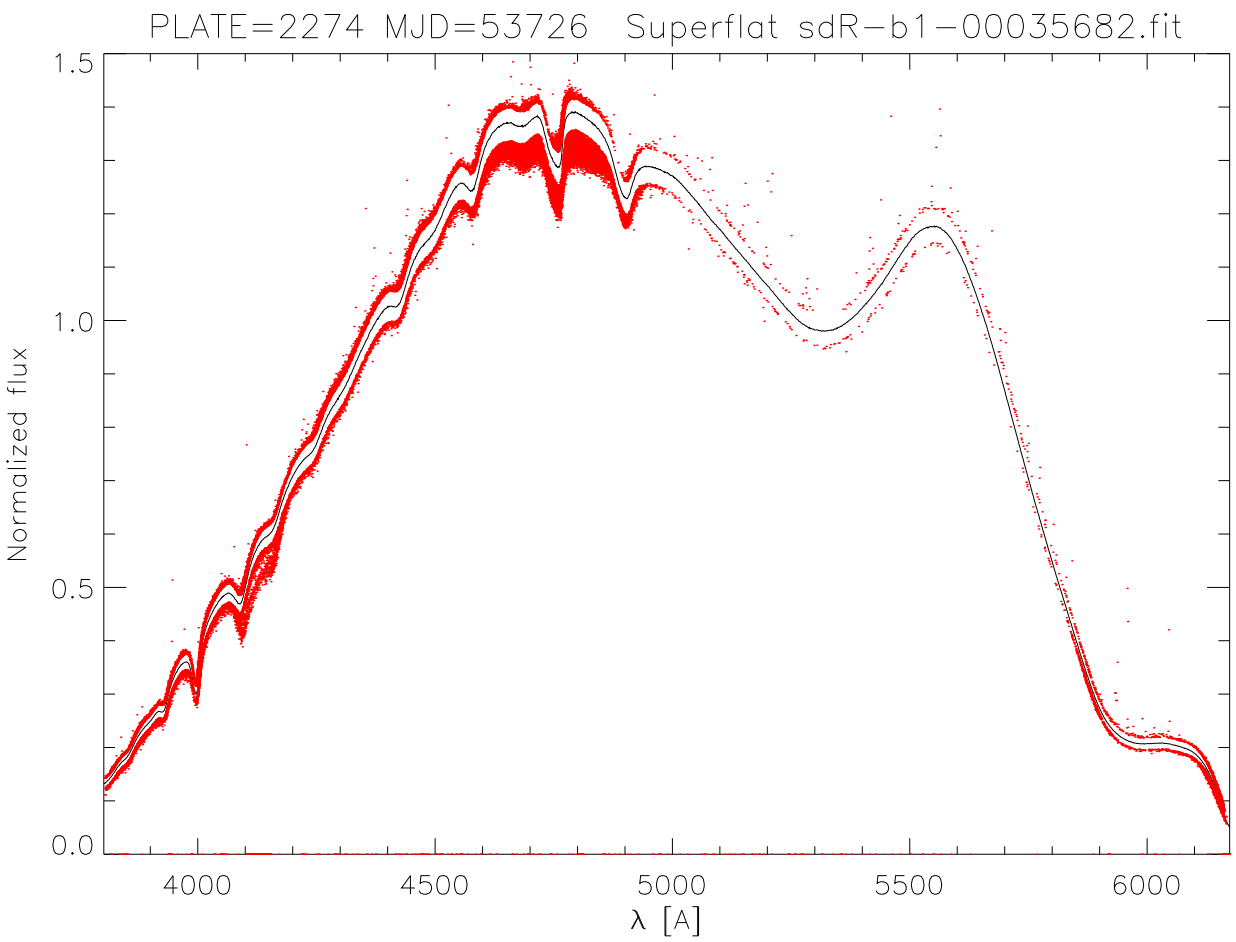

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

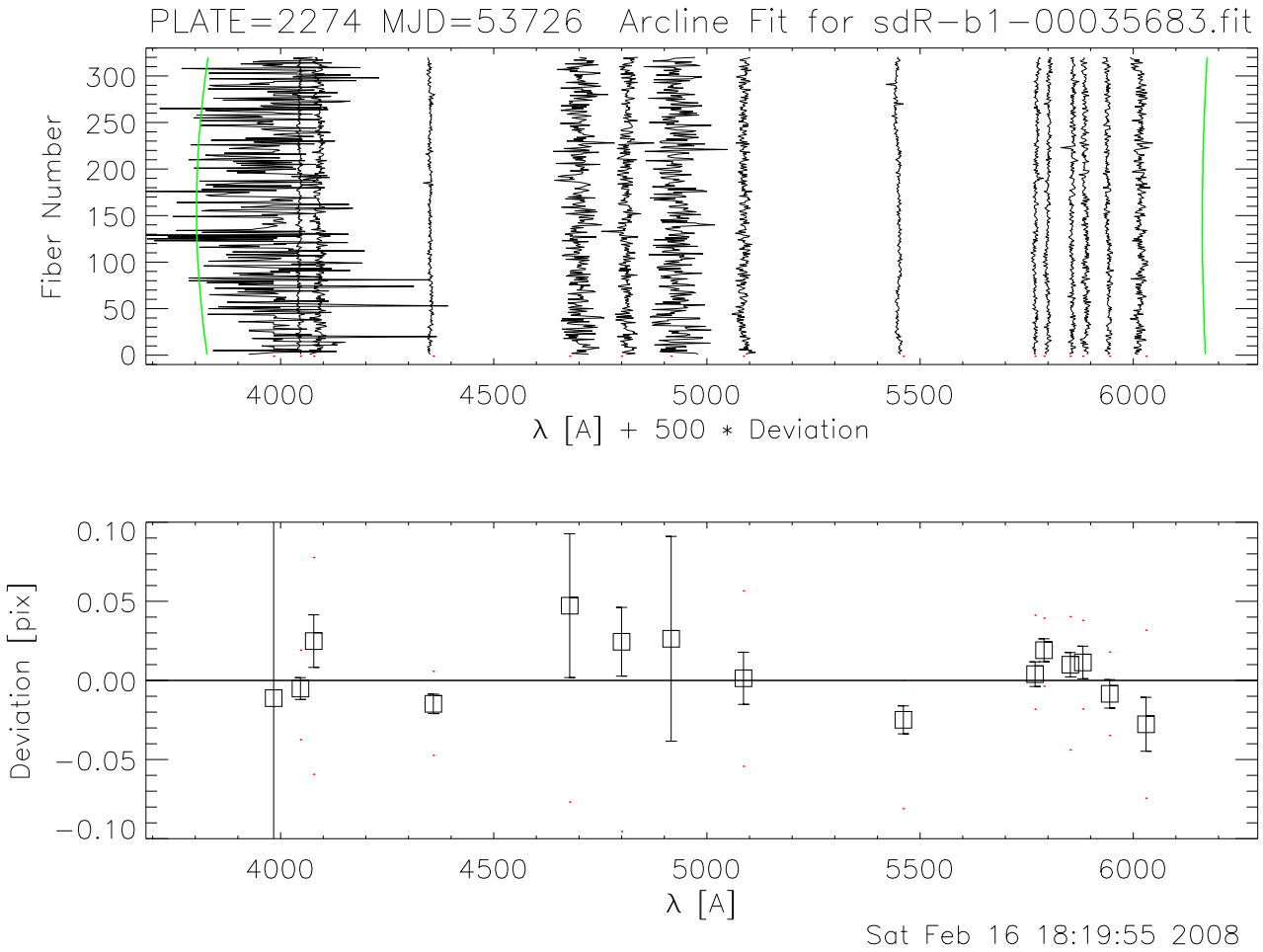

scale coeff residuals from ord=3 poly
2×10^-5
0
−2×10^-5
0
50
100
150
200
250
300
fiber

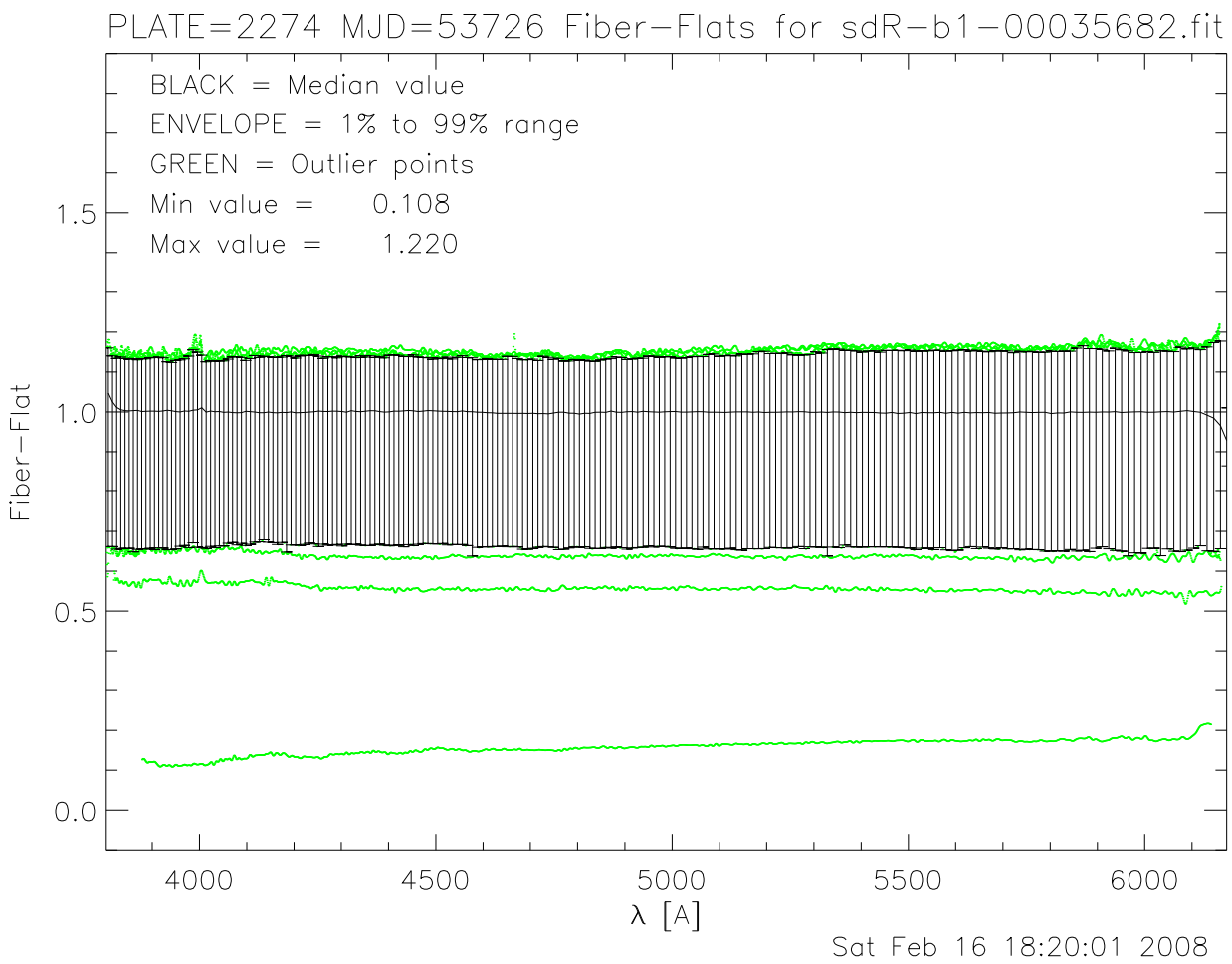

PLATE=2274 MJD=53726 flat extraction chi^2 for sdR−b1−00035675.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

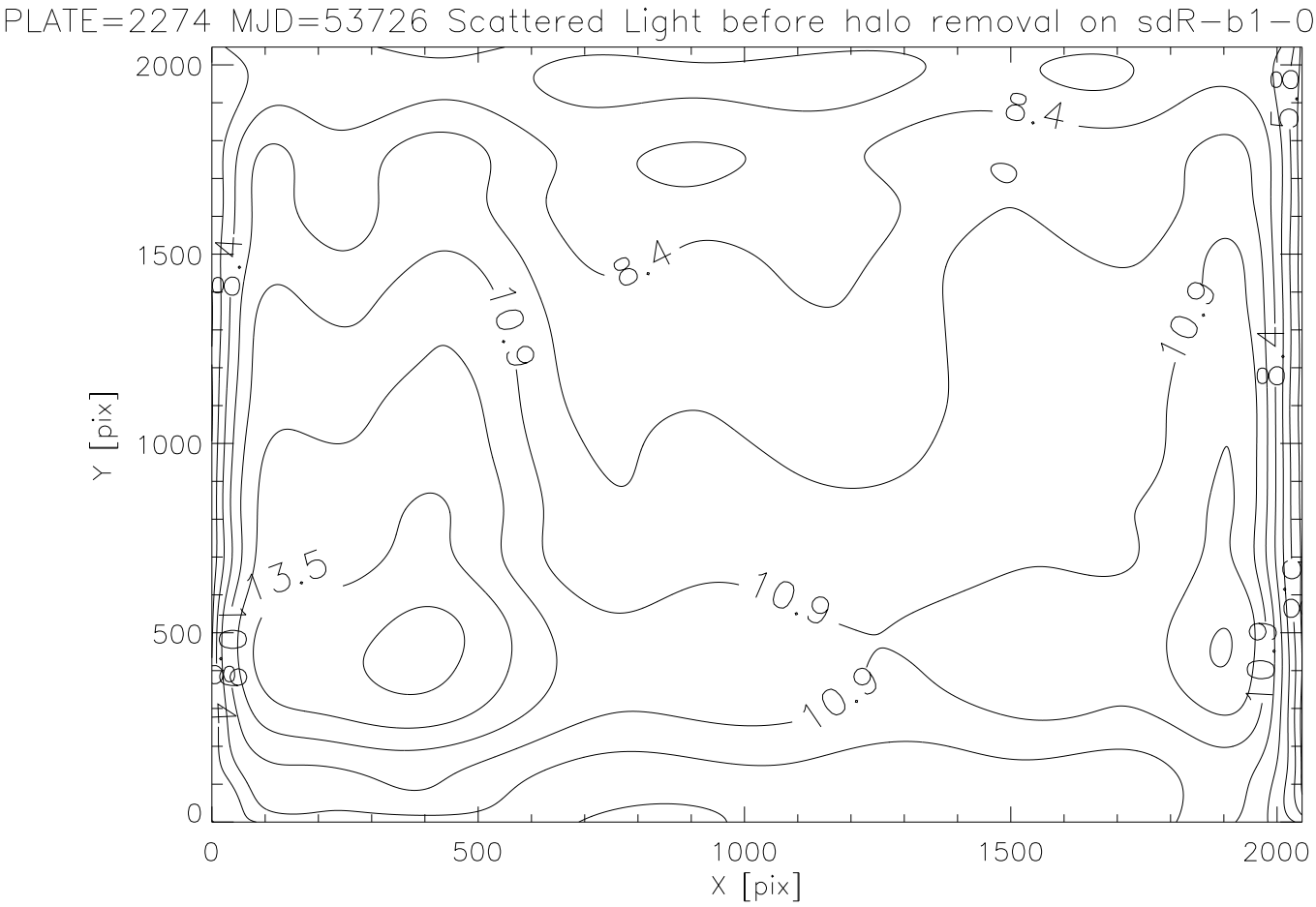

PLATE=2274 MJD=53726 Superflat sdR-b1-00035675.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

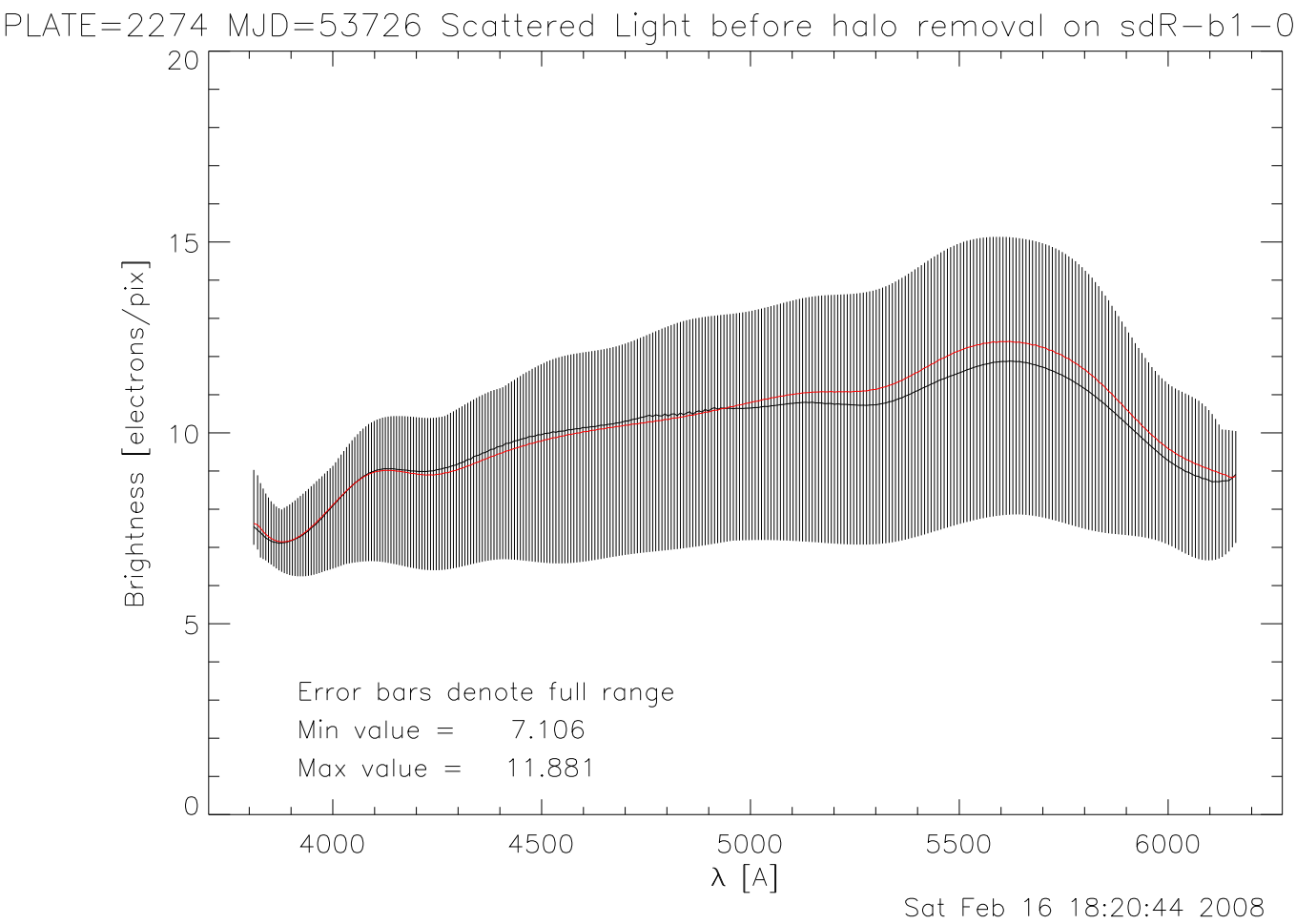

PLATE=2274 MJD=53726 flat extraction chi^2 for sdR−b1−00035682.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

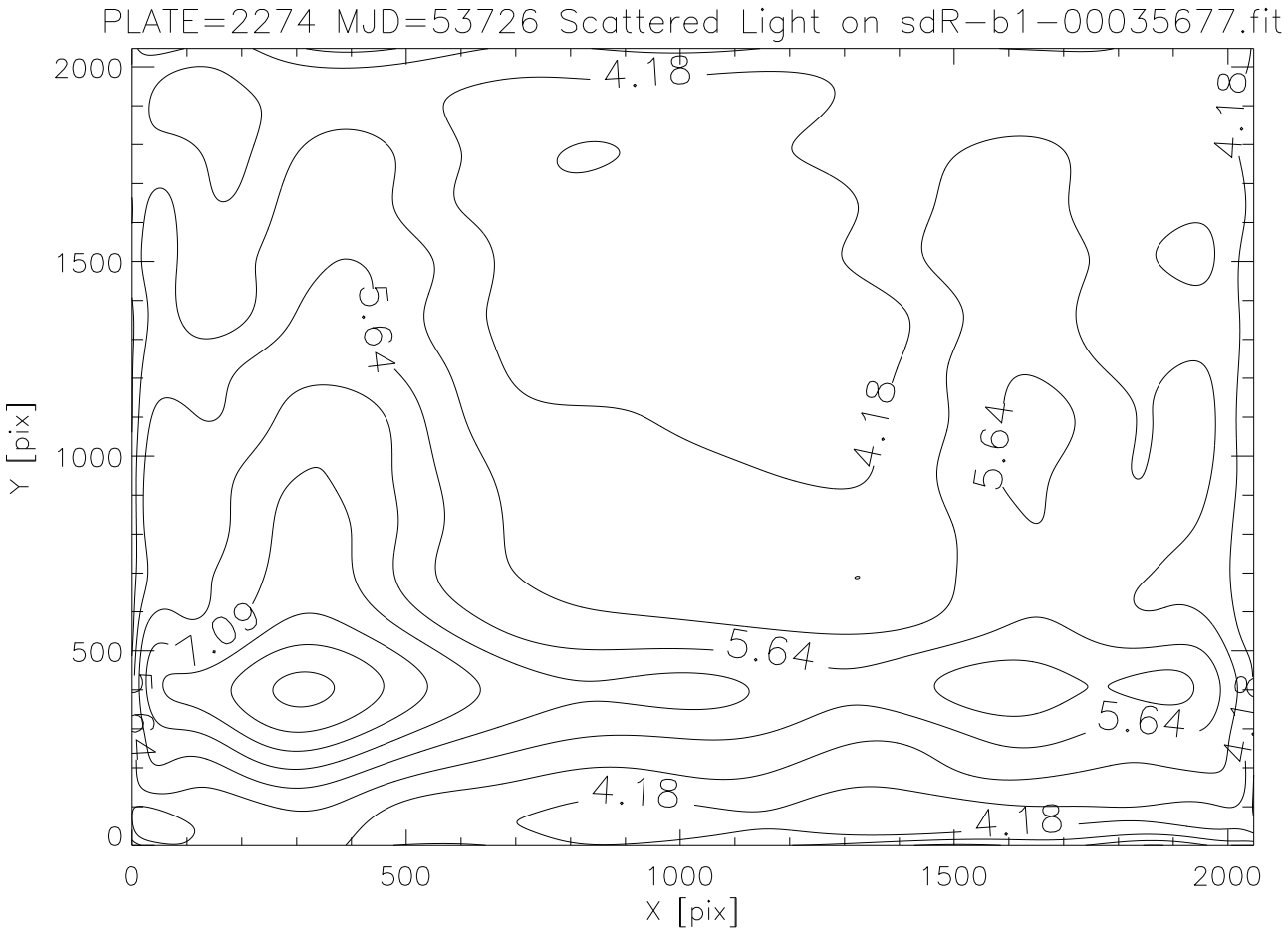

PLATE=2274 MJD=53726 Superflat sdR-b1-00035682.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

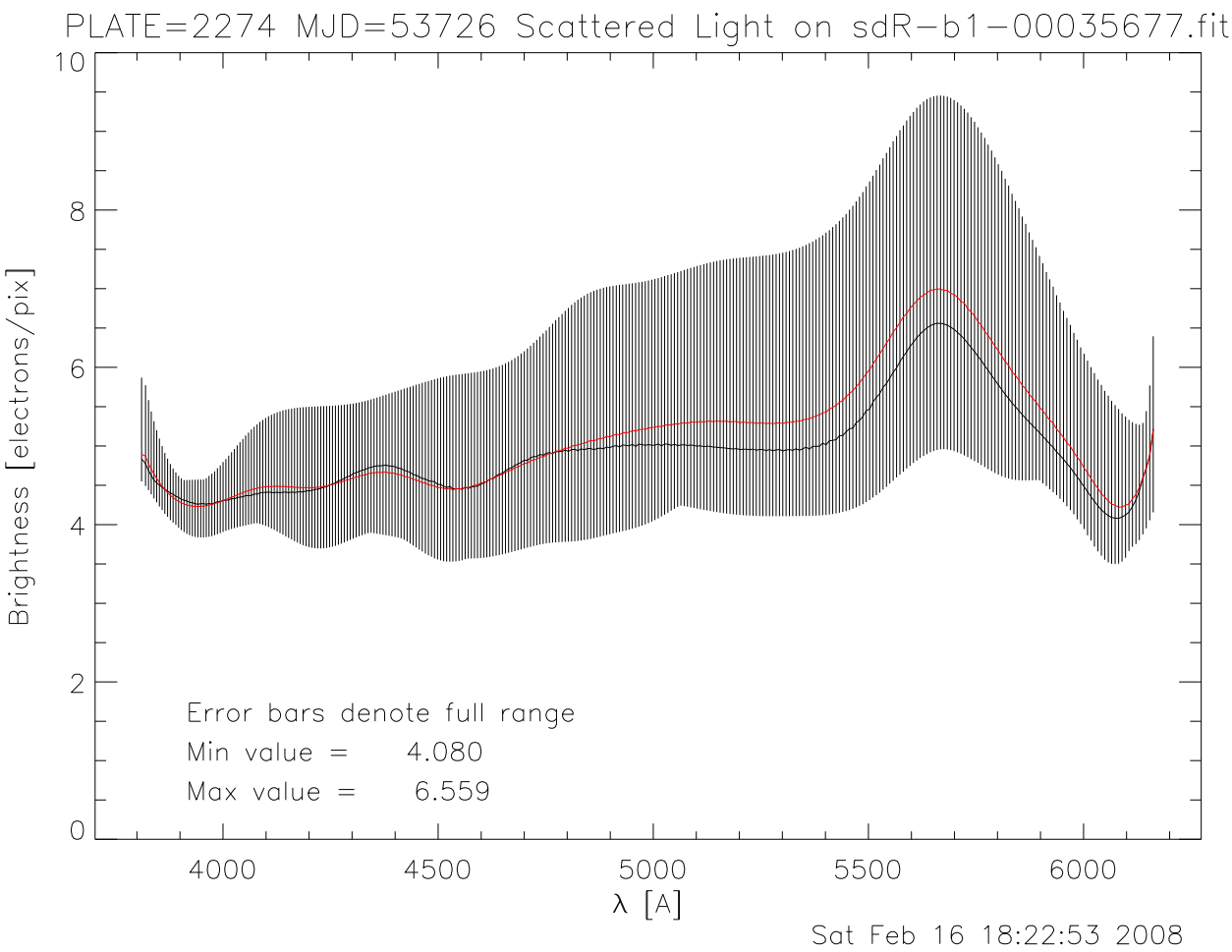

PLATE=2274 MJD=53726 Arcline Fit for sdR-b1-00035683.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 18:19:55 2008

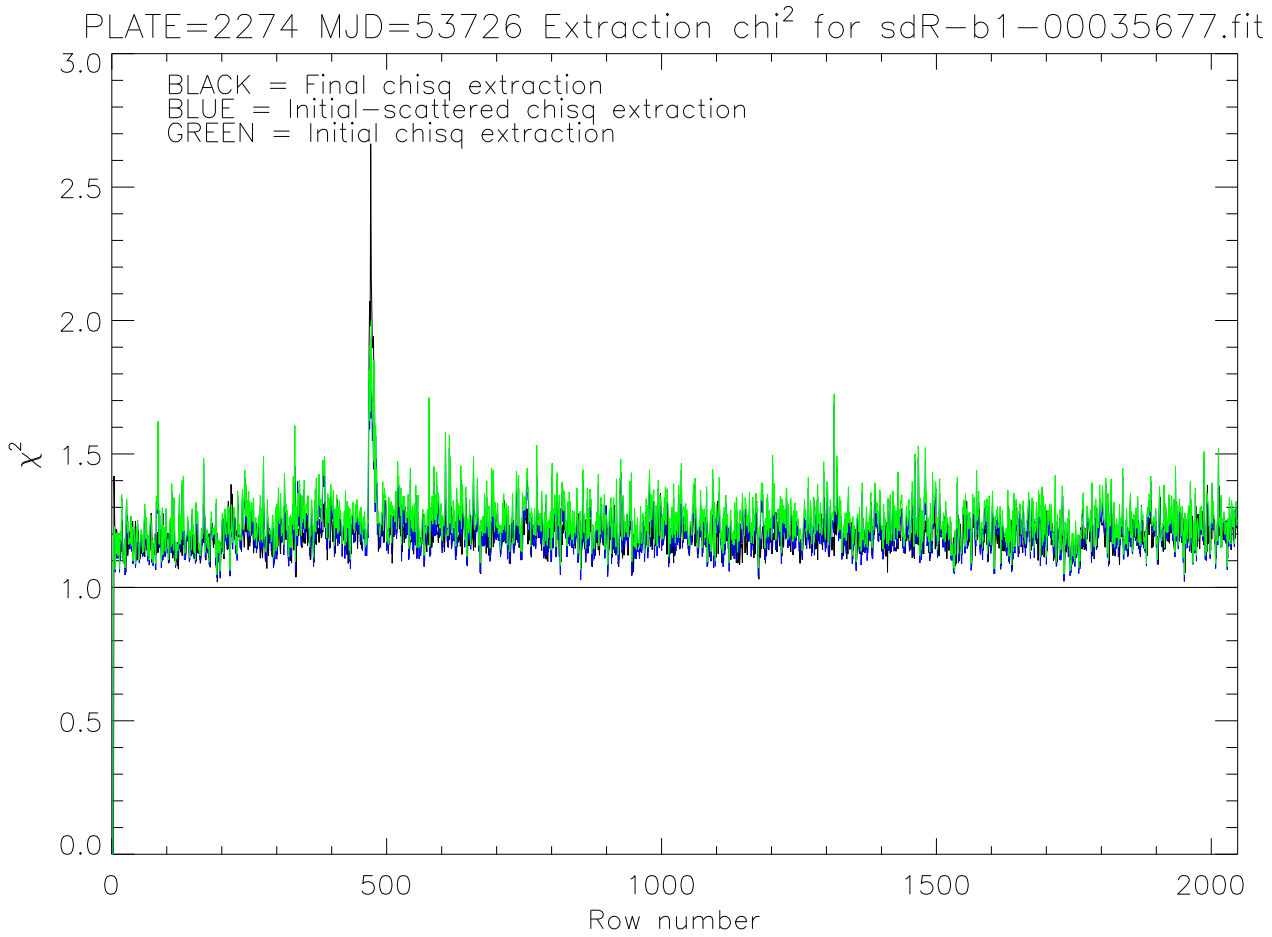

PLATE=2274 MJD=53726 Fiber-Flats for sdR-b1-00035682.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.108
Max value = 1.220
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 18:20:01 2008

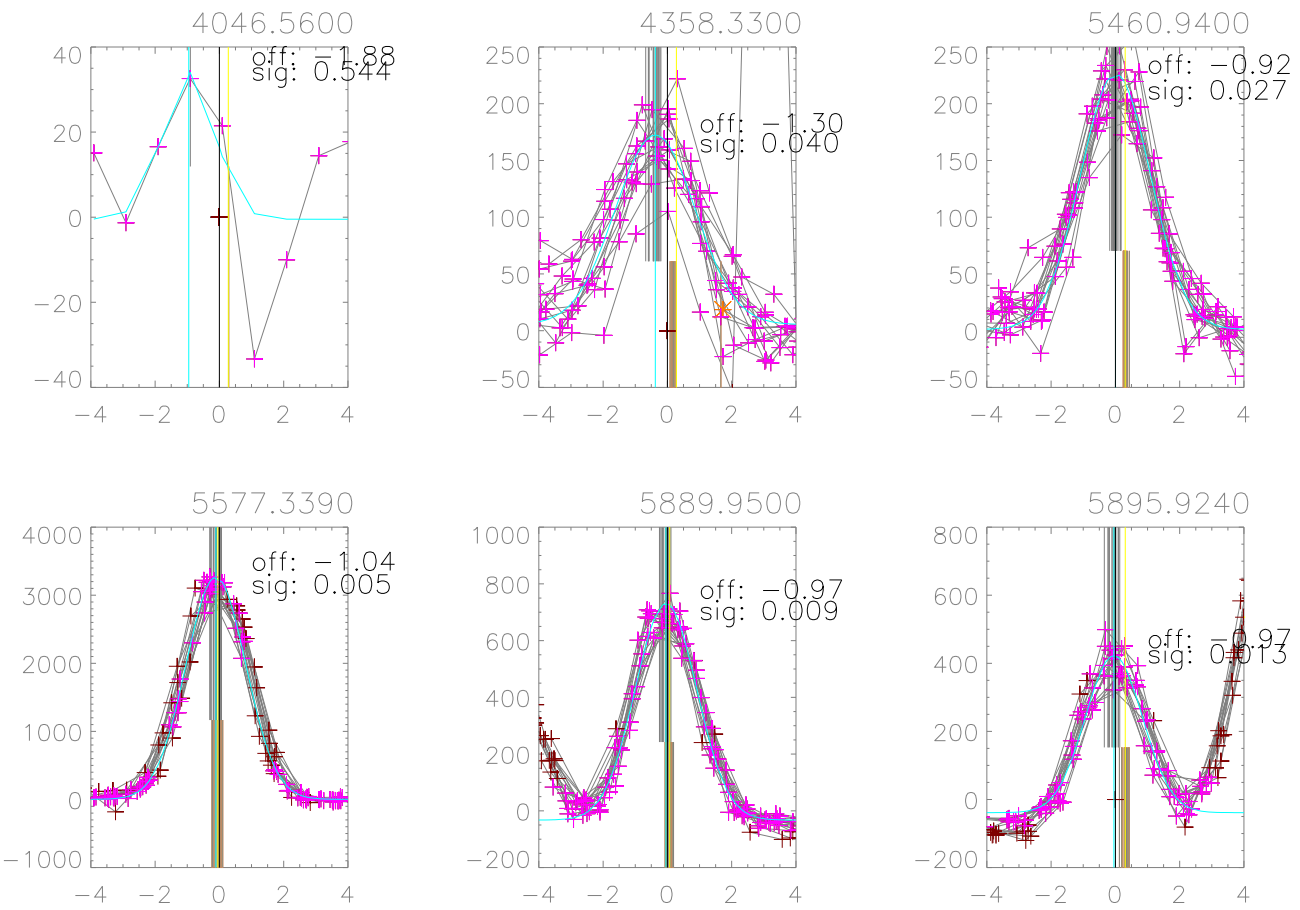

PLATE=2274 MJD=53726 Scattered Light before halo removal on sdR−b1−00035677.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
8.4
10.9
13.5
0

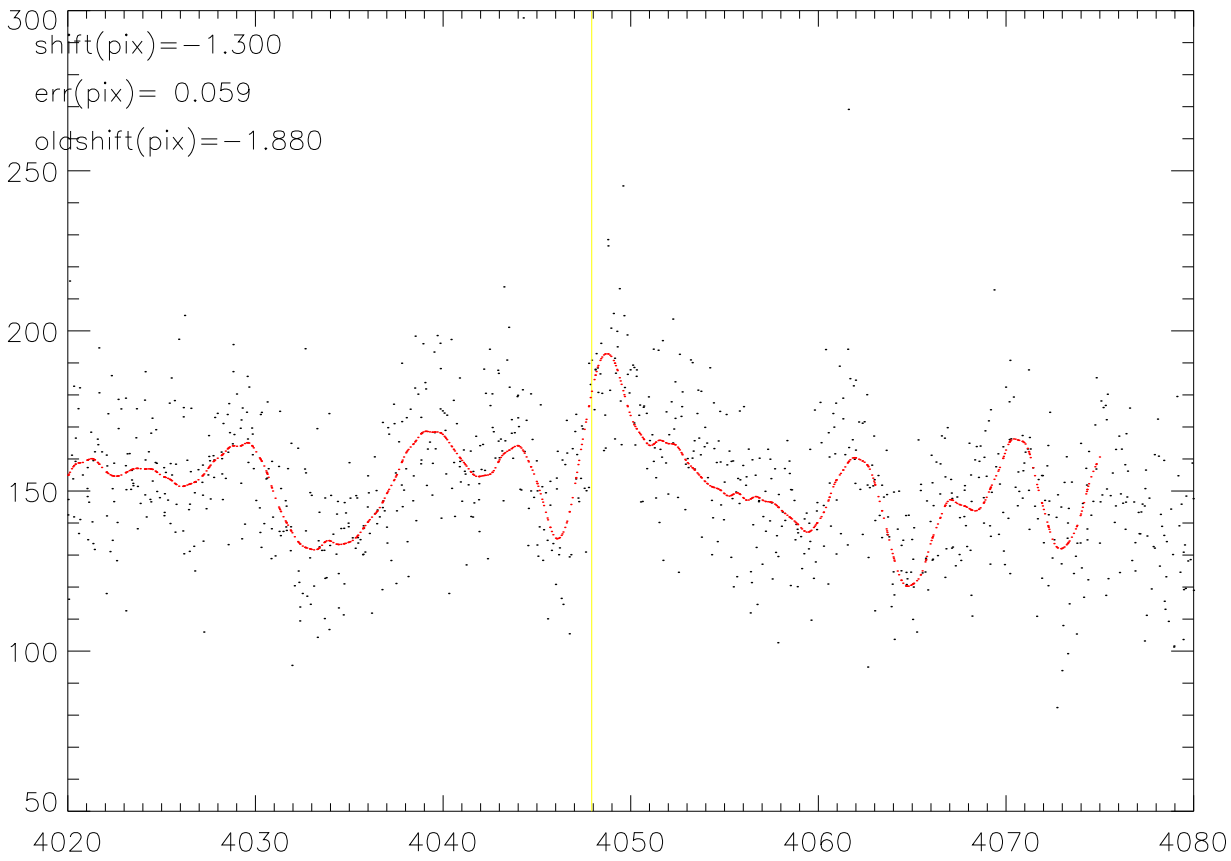

PLATE=2274 MJD=53726 Scattered Light before halo removal on sdR-b1-00035677.f
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 7.106
Max value = 11.881
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 18:20:44 2008

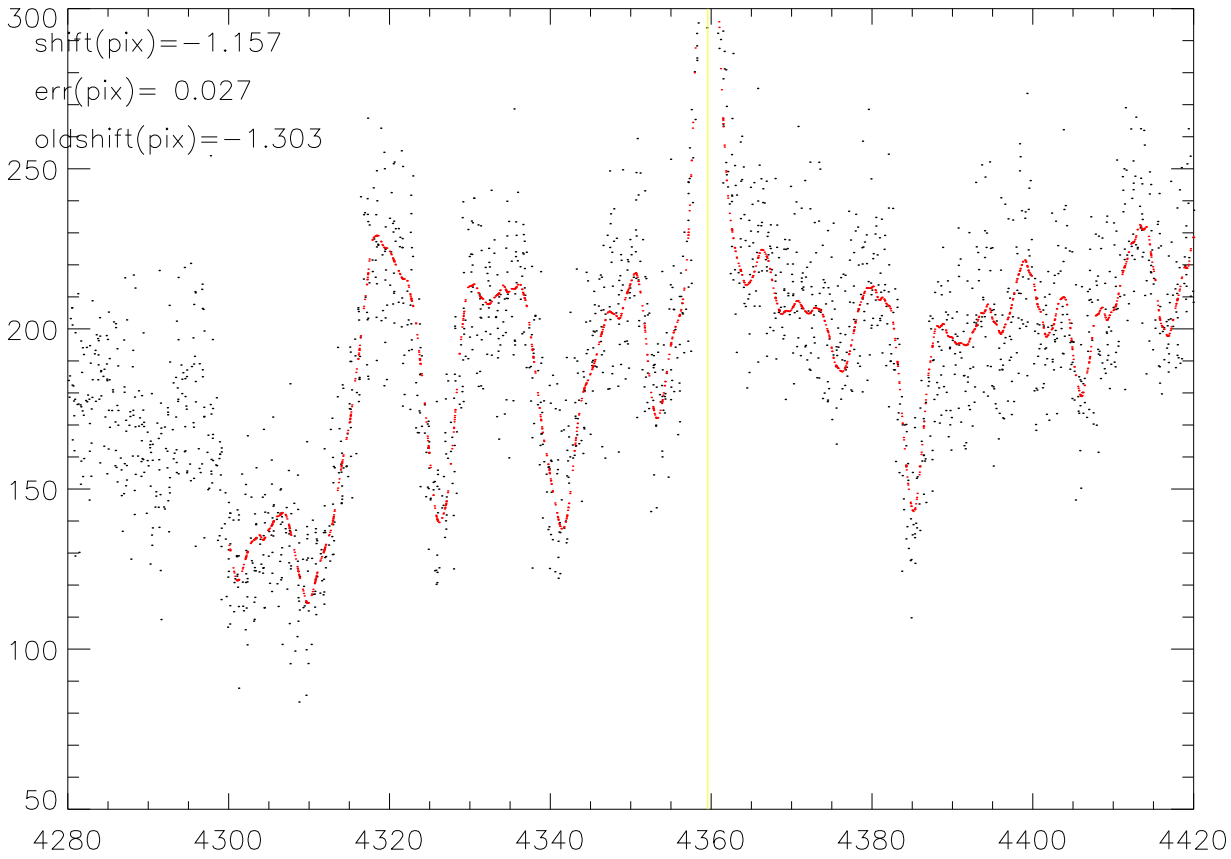

PLATE=2274 MJD=53726 Scattered Light on sdR-b1-00035677.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
4.18
5.64
1.09

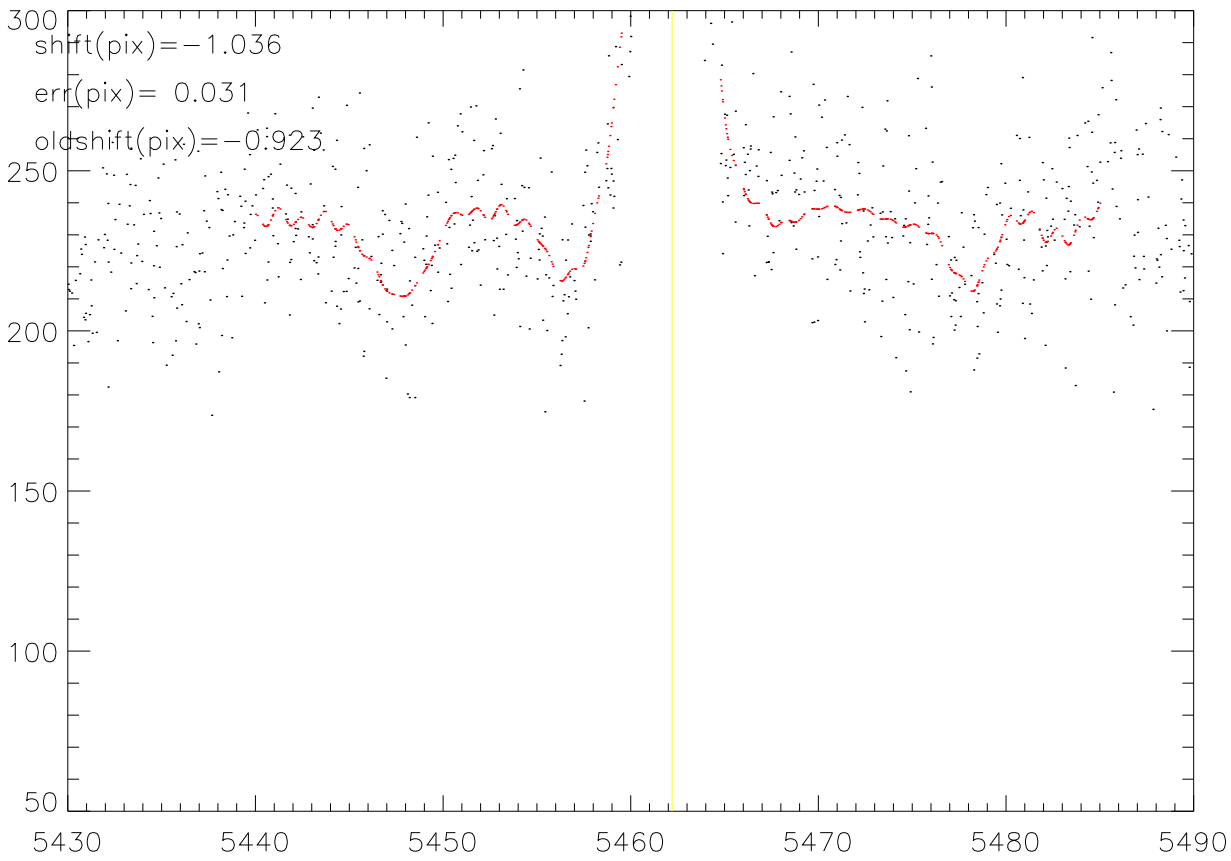

PLATE=2274 MJD=53726 Scattered Light on sdR-b1-00035677.fit
Brightness [electrons/pix]
10
8
6
4
2
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 4.080
Max value = 6.559
Sat Feb 16 18:22:53 2008

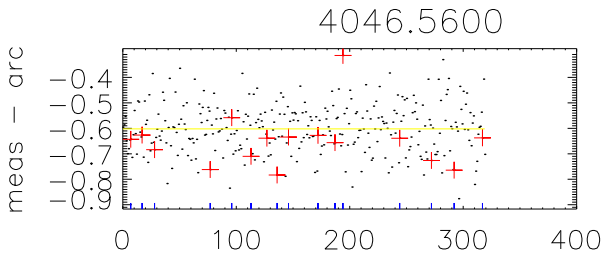

PLATE=2274 MJD=53726 Extraction chi^2 for sdR-b1-00035677.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

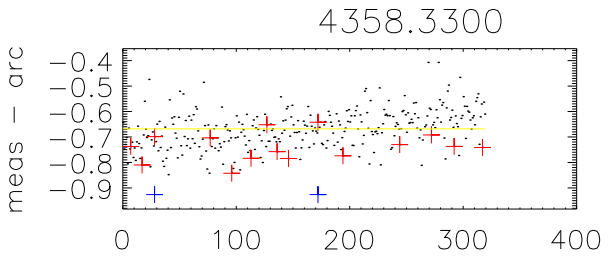

4046.5600
off: −1.88
sig: 0.544
4358.3300
off: −1.30
sig: 0.040
5460.9400
off: −0.92
sig: 0.027
5577.3390
off: −1.04
sig: 0.005
5889.9500
off: −0.97
sig: 0.009
5895.9240
off: −0.97
sig: 0.013

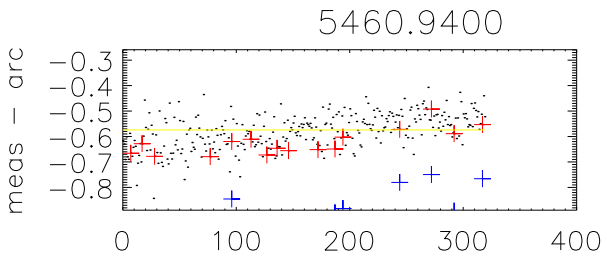

shift(pix)=−1.300
err(pix)= 0.059
oldshift(pix)=−1.880
300
250
200
150
100
50
4020
4030
4040
4050
4060
4070
4080

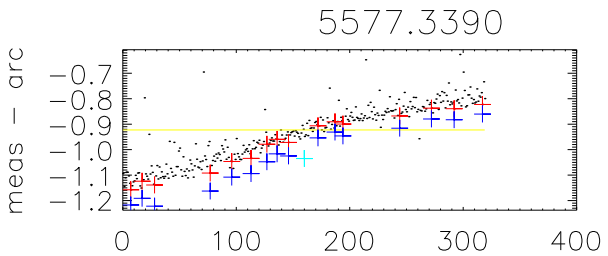

shift(pix)=−1.157
err(pix)= 0.027
oldshift(pix)=−1.303
300
250
200
150
100
50
4280
4300
4320
4340
4360
4380
4400
4420

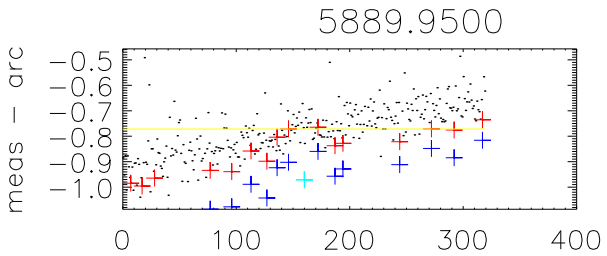

shift(pix)=−1.036
err(pix)= 0.031
oldshift(pix)=−0.923
300
250
200
150
100
50
5430
5440
5450
5460
5470
5480
5490

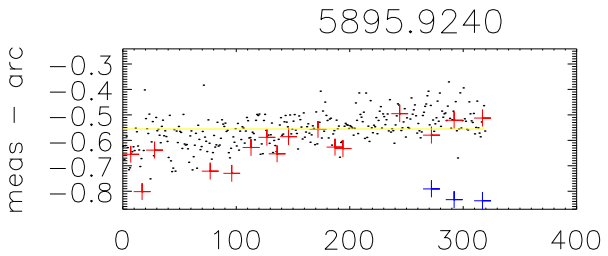

4046.5600
meas − arc
−0.4
−0.5
−0.6
−0.7
−0.8
−0.9
0
100
200
300
400

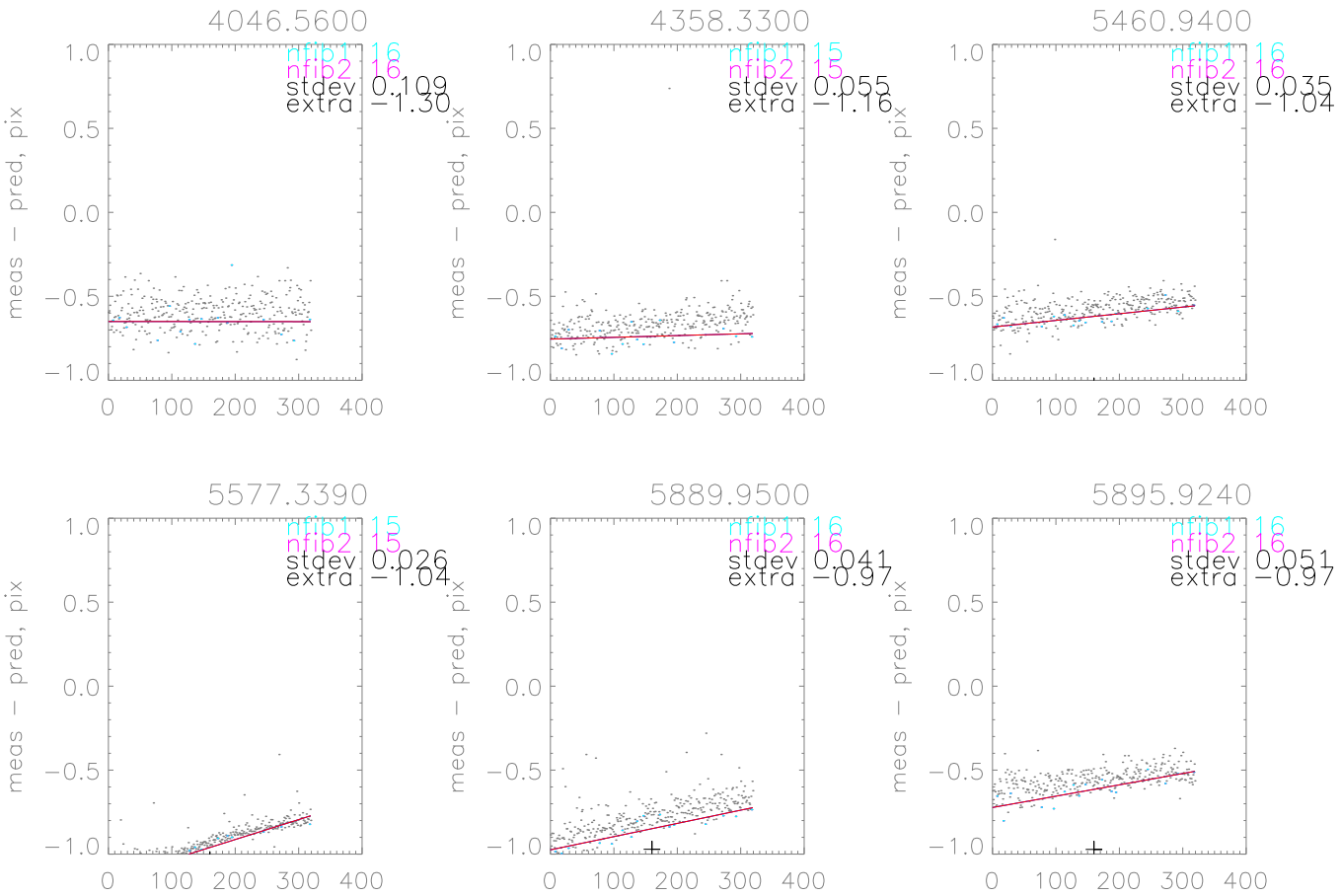

4358.3300
meas − arc
−0.4
−0.5
−0.6
−0.7
−0.8
−0.9
0
100
200
300
400

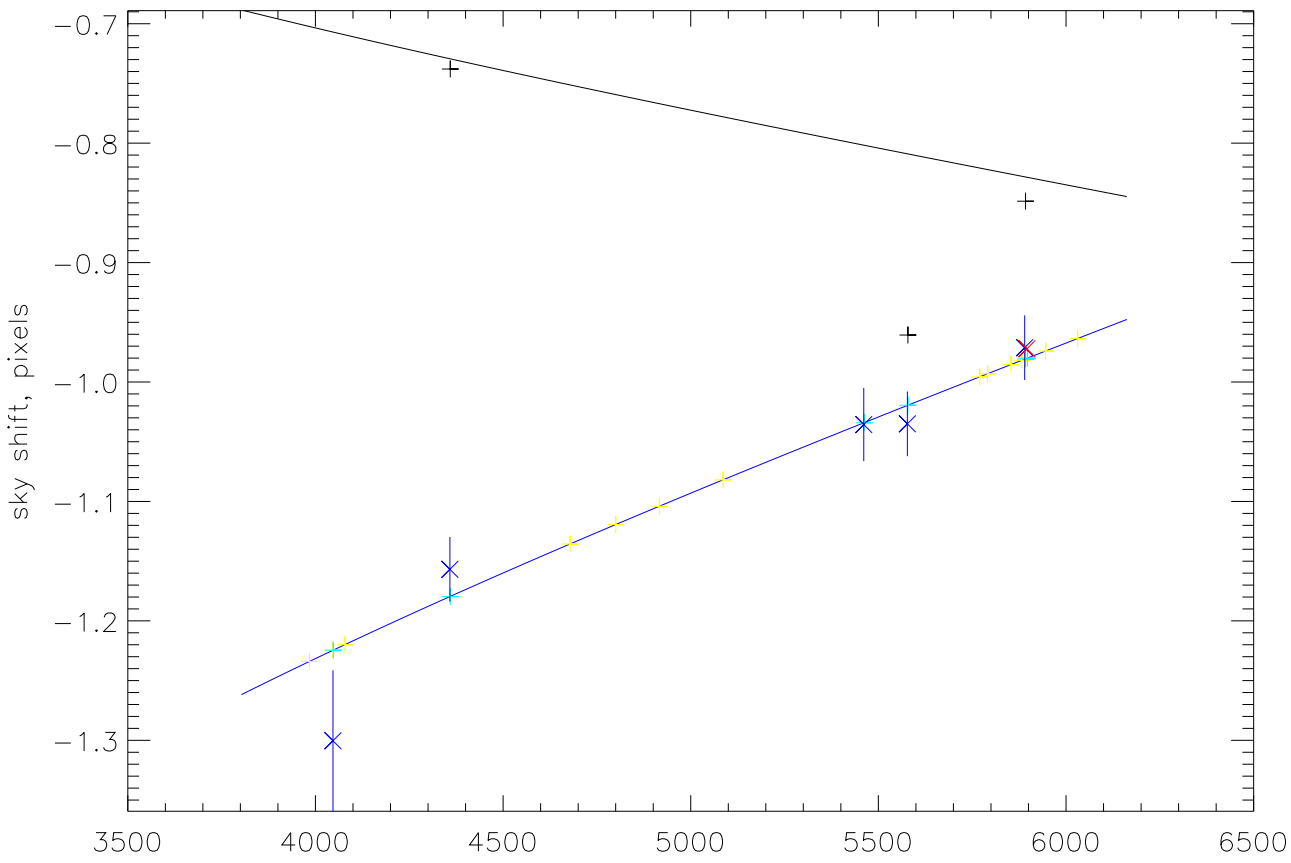

5460.9400
meas − arc
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
0
100
200
300
400

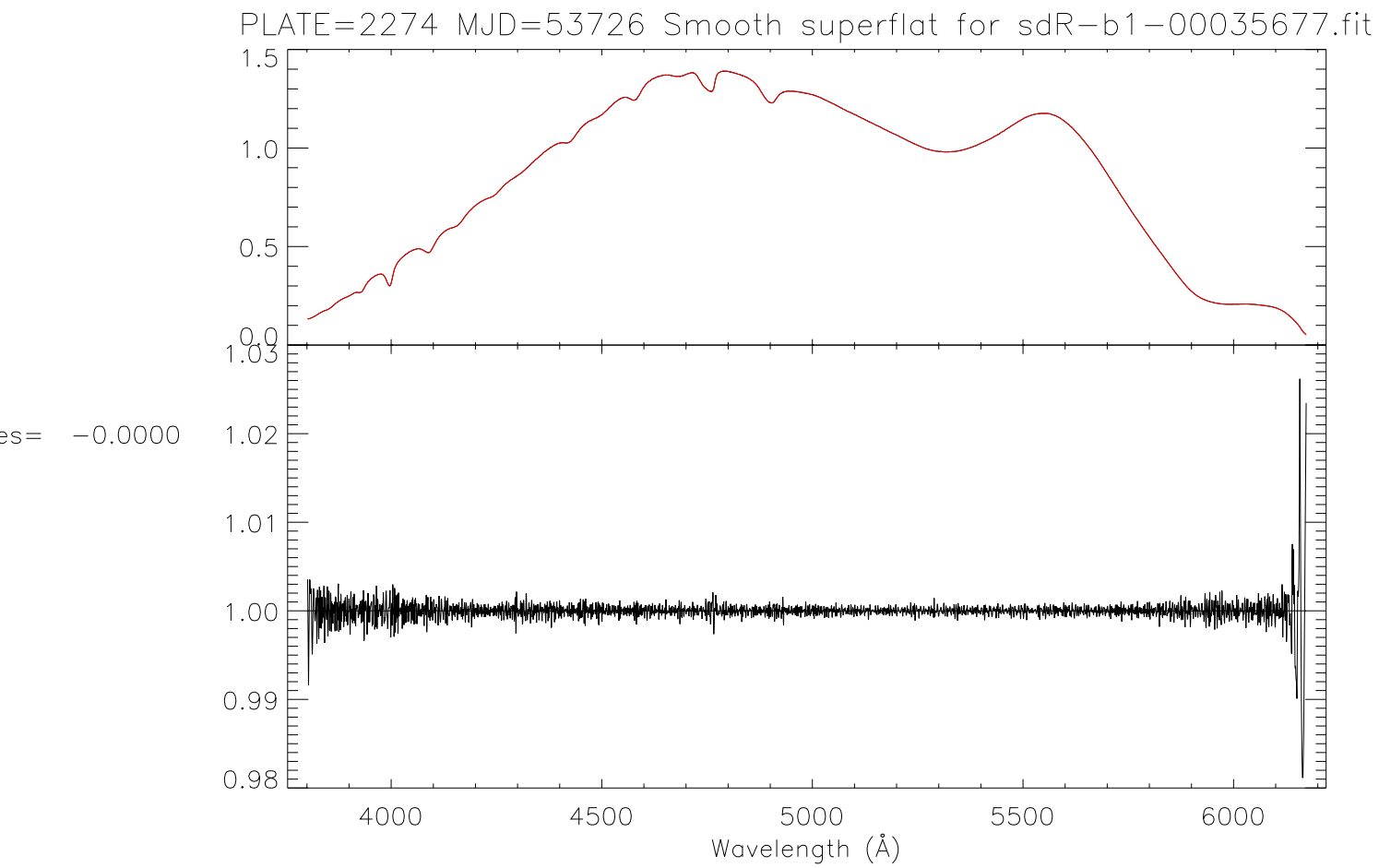

5577.3390
meas − arc
−0.7
−0.8
−0.9
−1.0
−1.1
−1.2
0
100
200
300
400


5889.9500
meas − arc
−0.5
−0.6
−0.7
−0.8
−0.9
−1.0
0
100
200
300
400

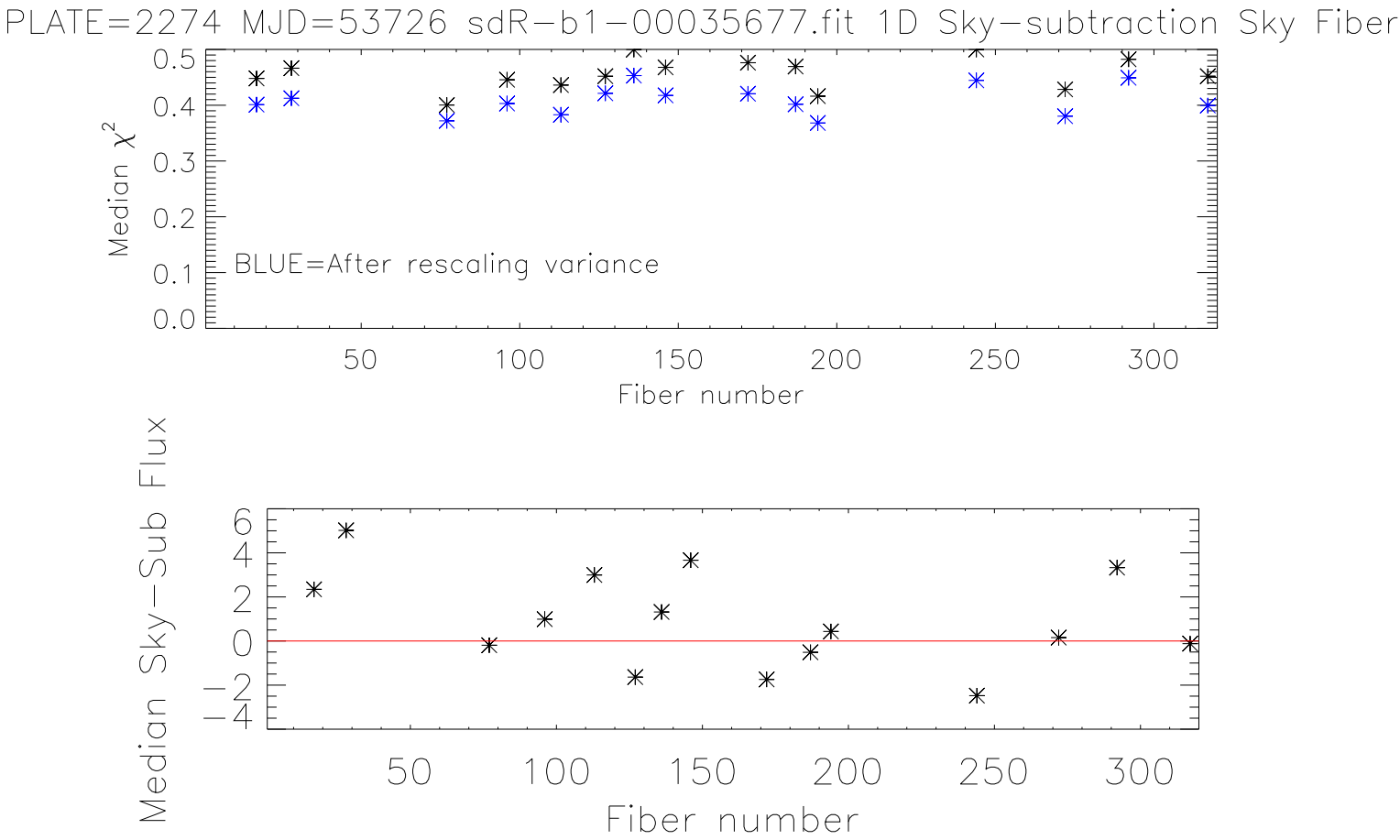

5895.9240
meas − arc
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
0
100
200
300
400

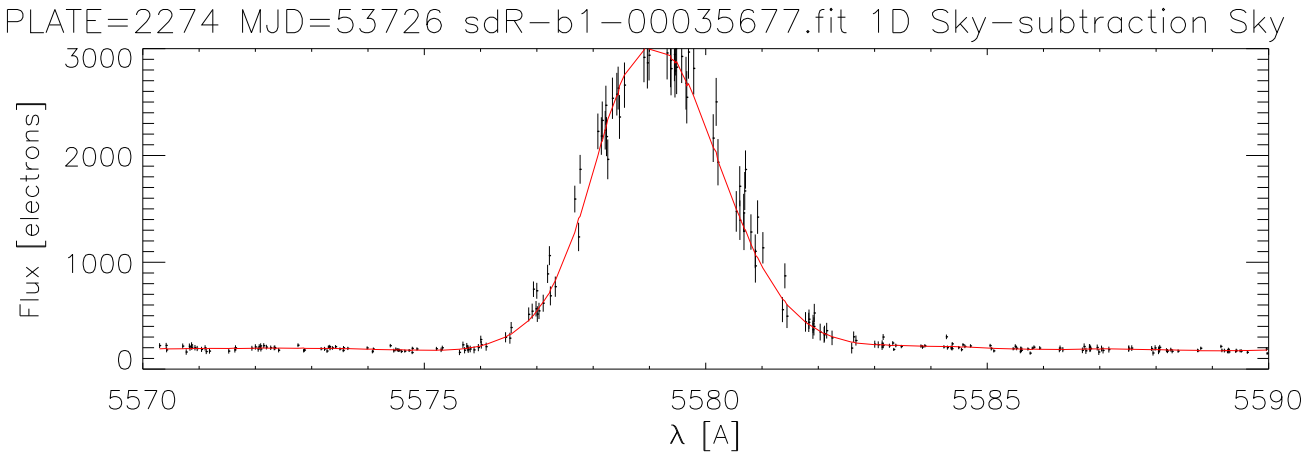

4046.5600
nfib1 16
nfib2 16
stdev 0.109
extra −1.30
4358.3300
nfib1 15
nfib2 15
stdev 0.055
extra −1.16
5460.9400
nfib1 16
nfib2 16
stdev 0.035
extra −1.04
5577.3390
nfib1 15
nfib2 15
stdev 0.026
extra −1.04
5889.9500
nfib1 16
nfib2 16
stdev 0.041
extra −0.97
5895.9240
nfib1 16
nfib2 16
stdev 0.051
extra −0.97
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

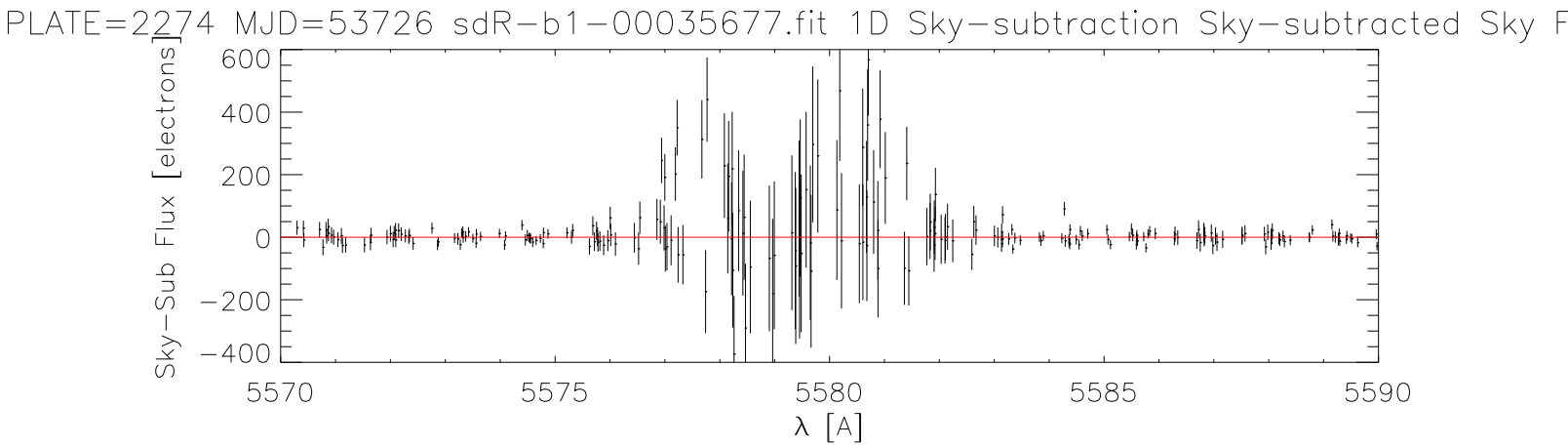

sky shift, pixels
−0.7
−0.8
−0.9
−1.0
−1.1
−1.2
−1.3
3500
4000
4500
5000
5500
6000
6500

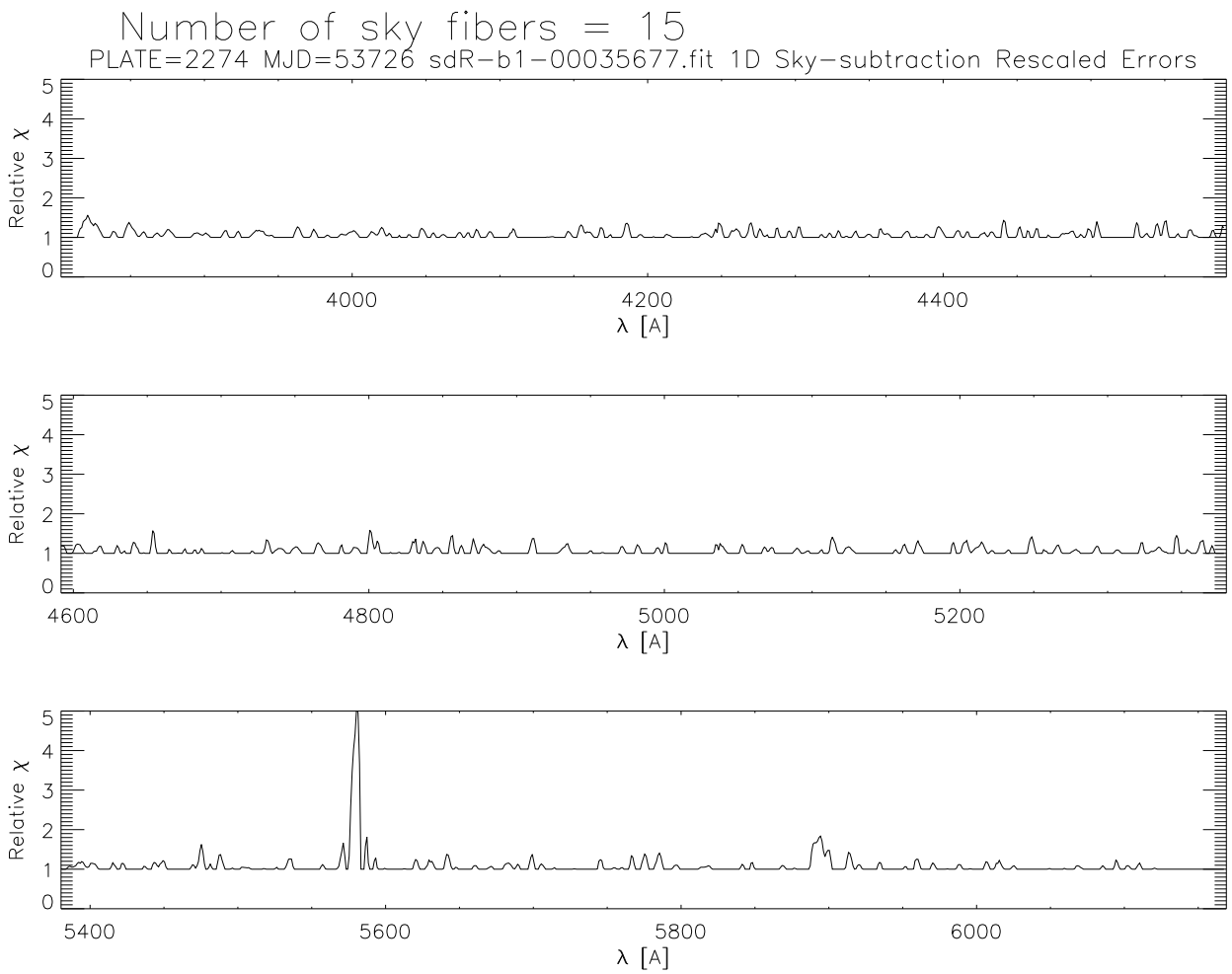

PLATE=2274 MJD=53726 Smooth superflat for sdR-b1-00035677.fit
1.5
1.0
0.5
0.0
1.03
1.02
1.01
1.00
0.99
0.98
4000
4500
5000
5500
6000
Wavelength (Å)

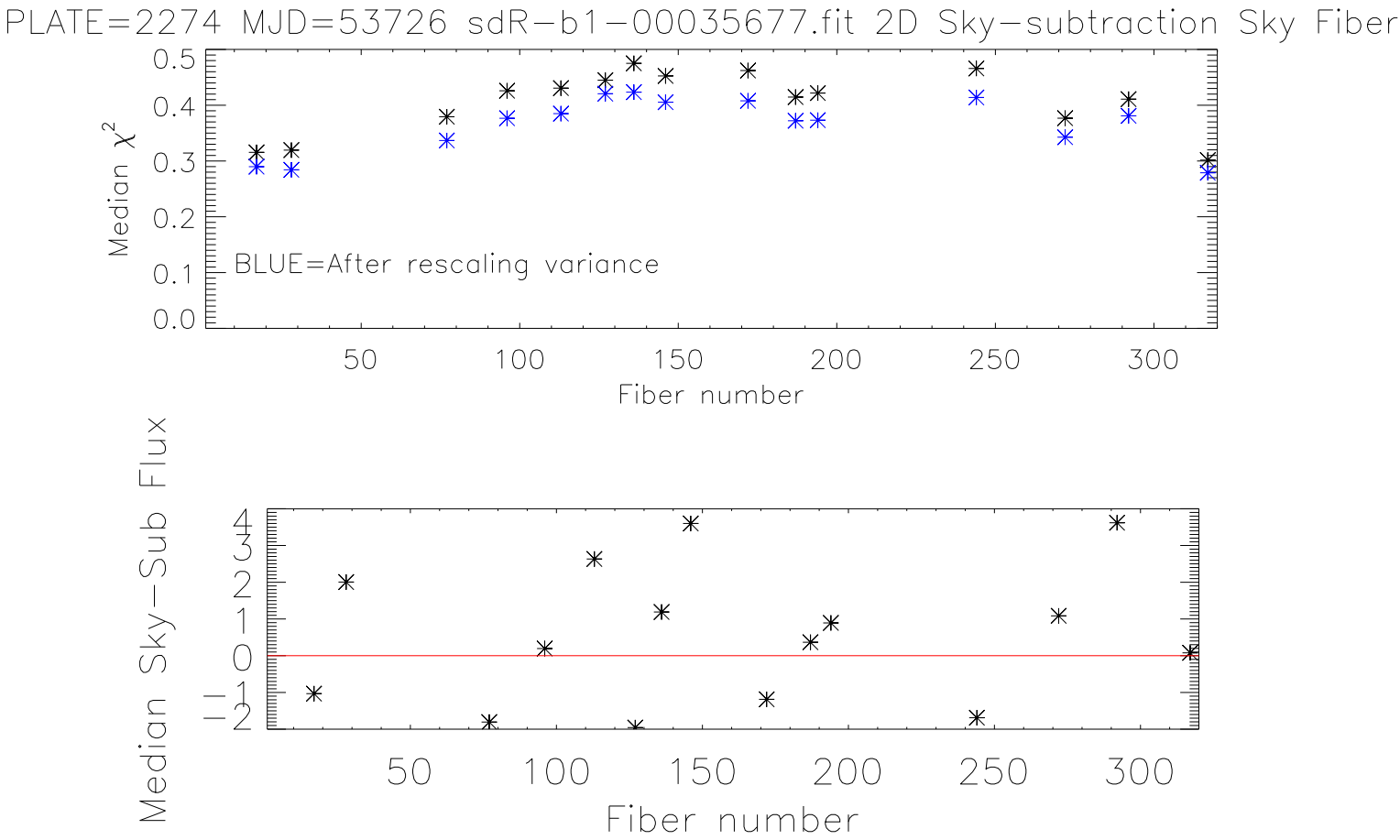
es= −0.0000

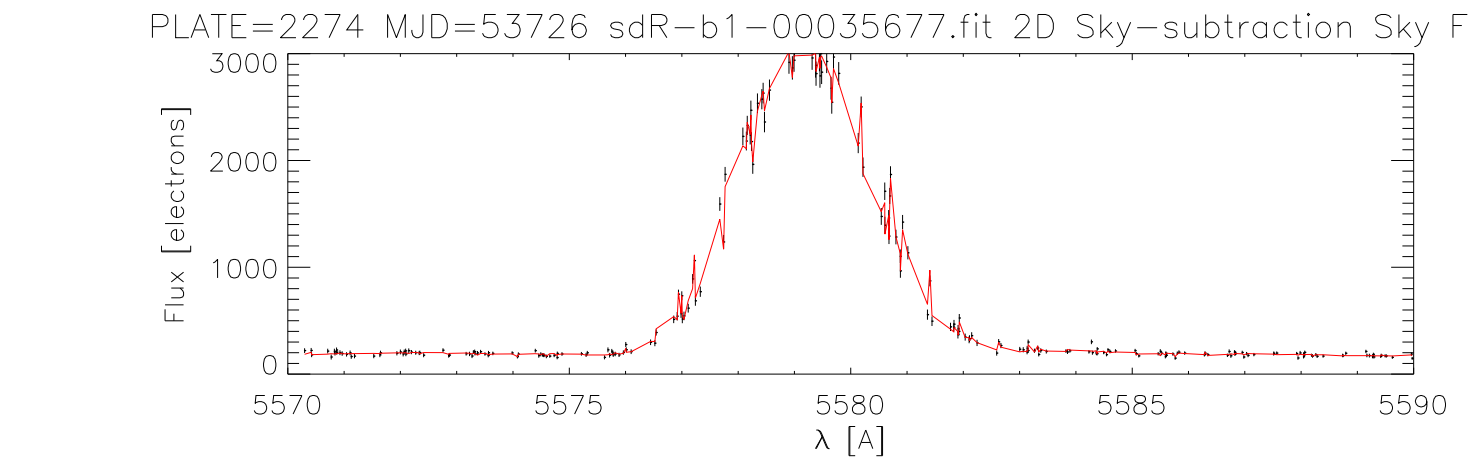

PLATE=2274 MJD=53726 sdR-b1-00035677.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

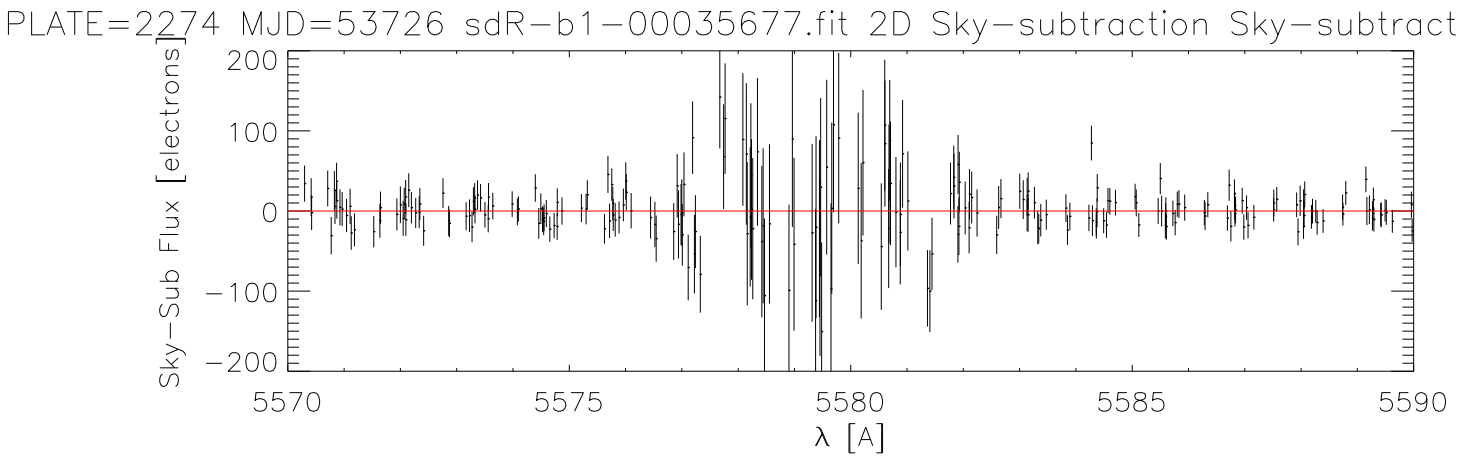

PLATE=2274 MJD=53726 sdR-b1-00035677.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

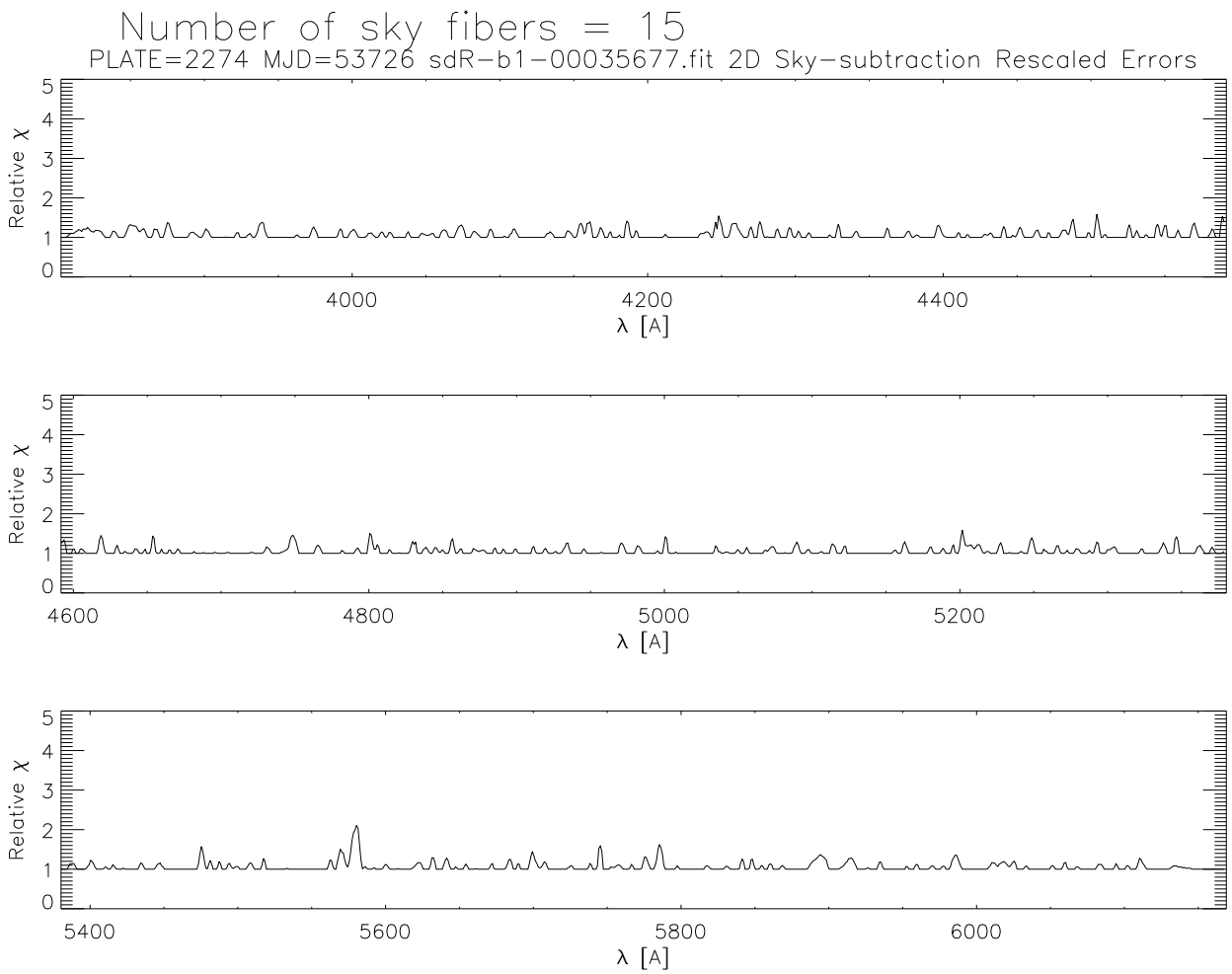

PLATE=2274 MJD=53726 sdR-b1-00035677.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
−200
−400
5570
5575
5580
5585
5590
λ [A]

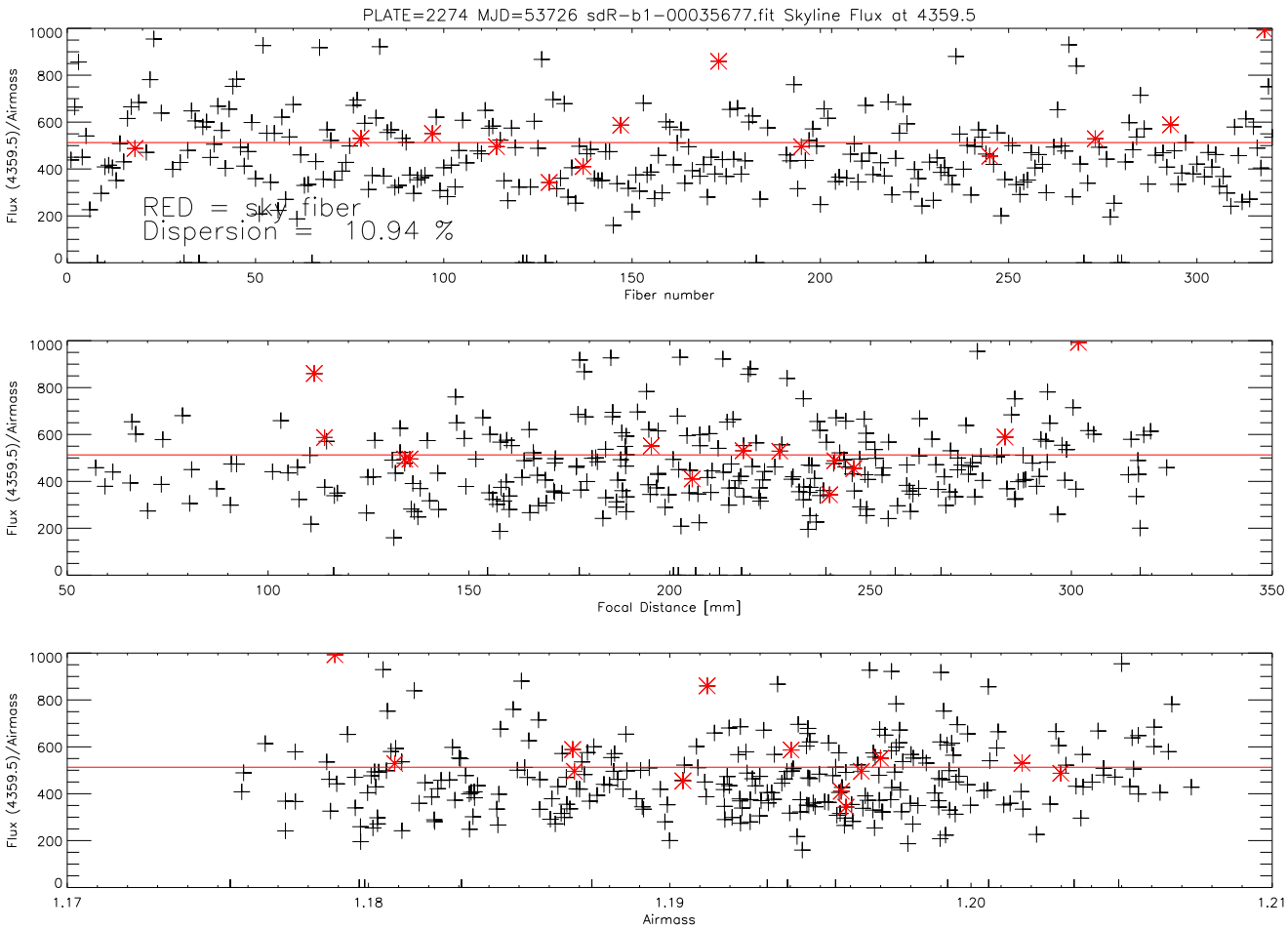

Number of sky fibers = 15
PLATE=2274 MJD=53726 sdR-b1-00035677.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

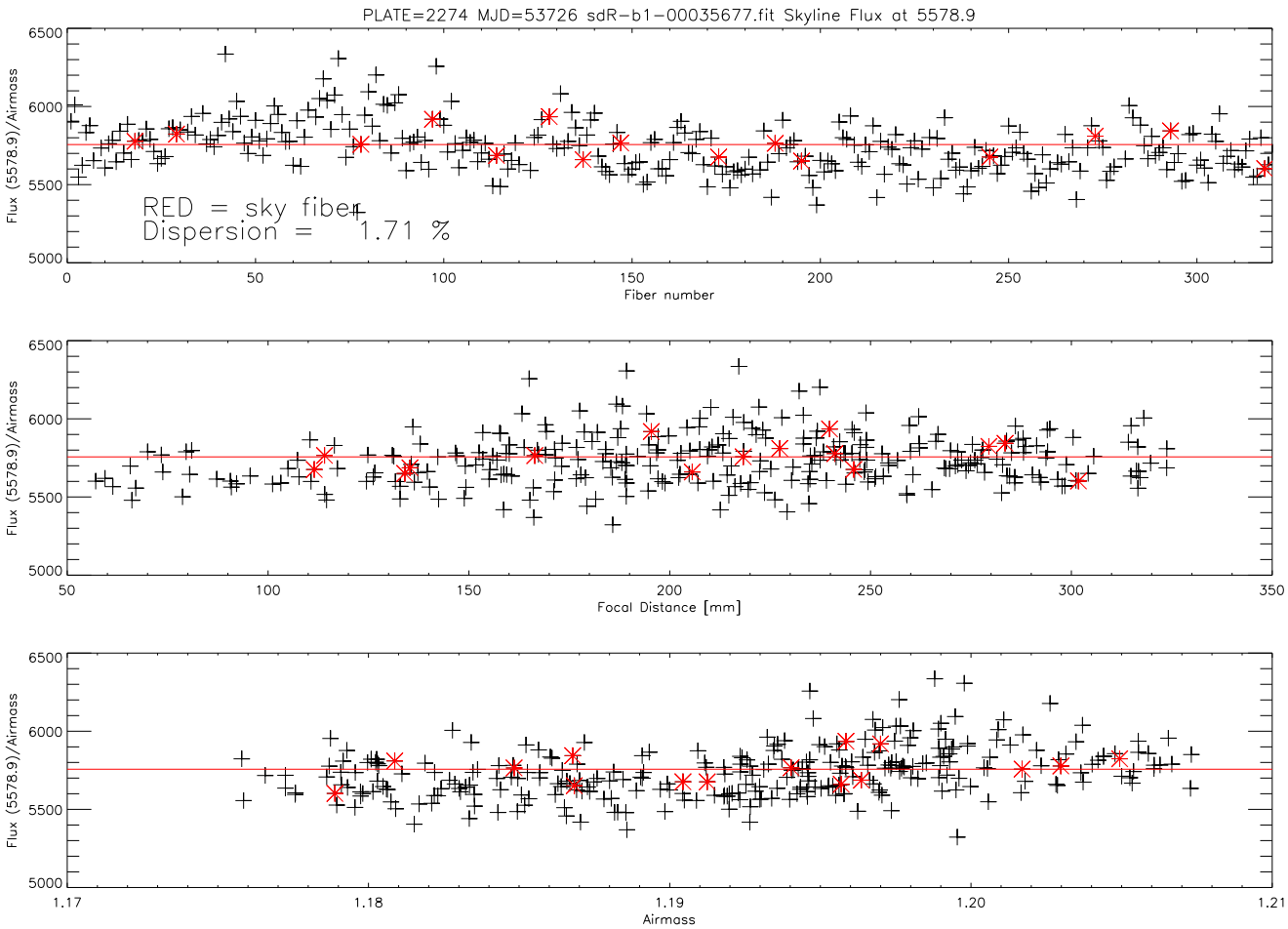

PLATE=2274 MJD=53726 sdR-b1-00035677.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

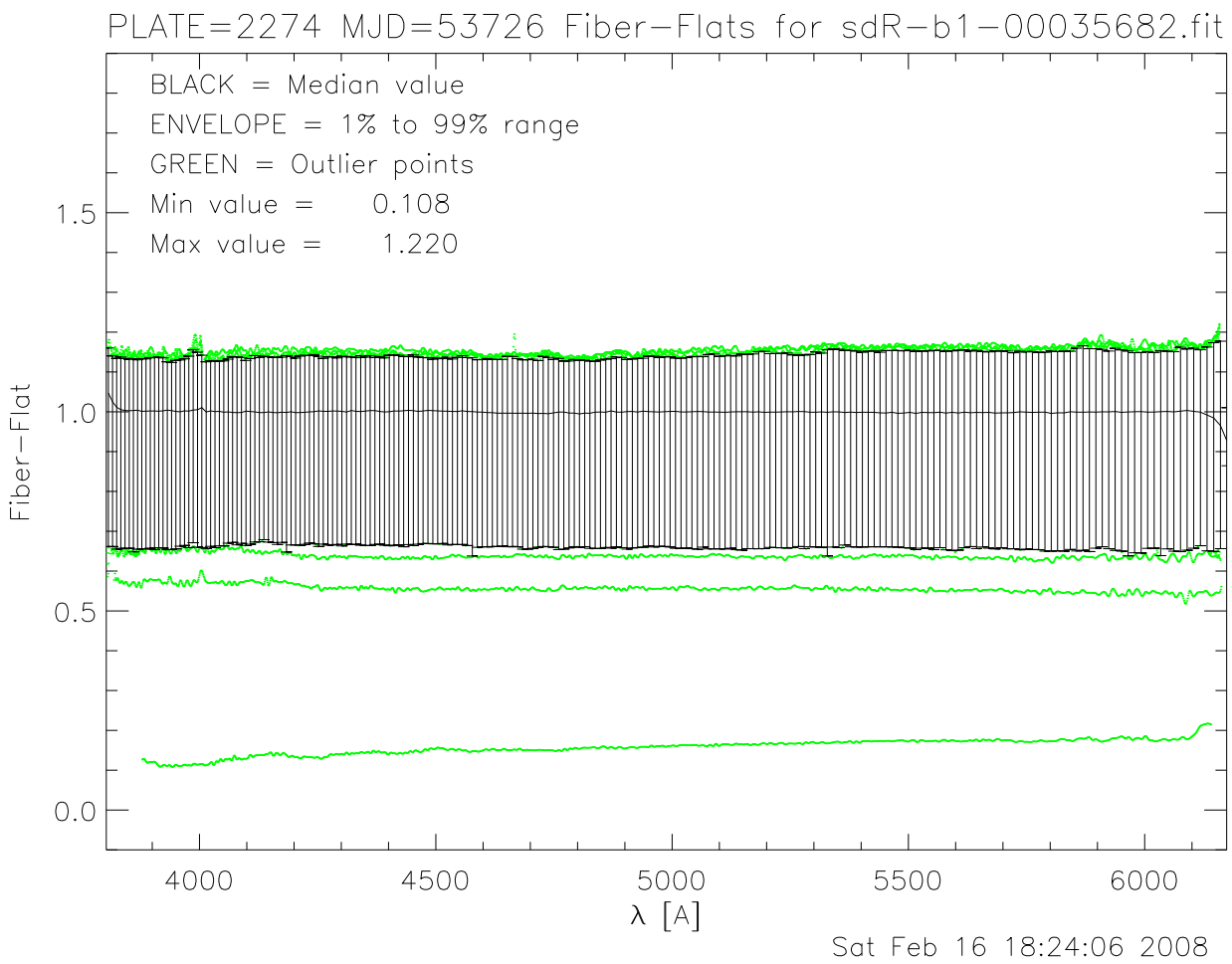

PLATE=2274 MJD=53726 sdR-b1-00035677.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

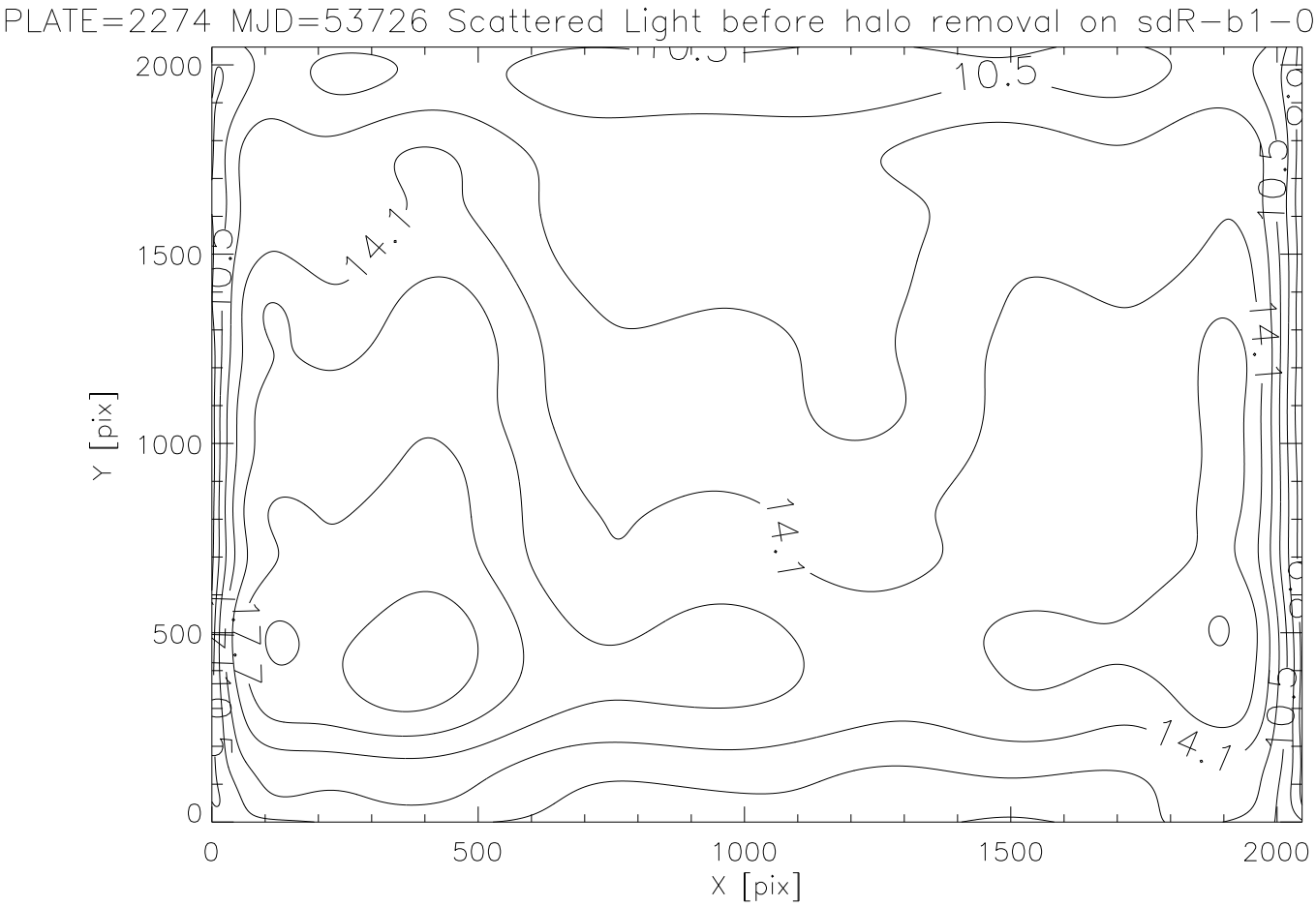

PLATE=2274 MJD=53726 sdR-b1-00035677.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

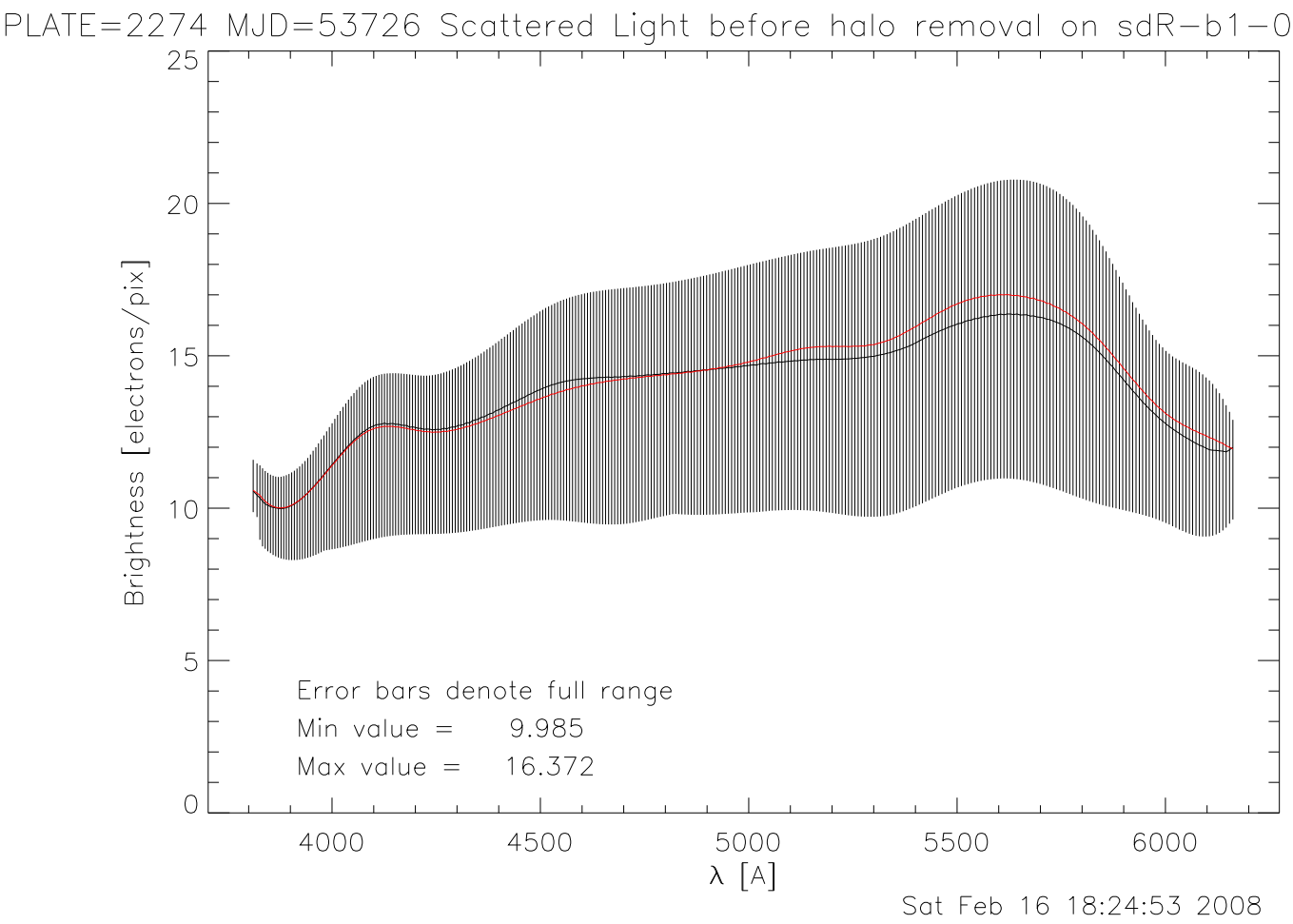

Number of sky fibers = 15
PLATE=2274 MJD=53726 sdR-b1-00035677.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

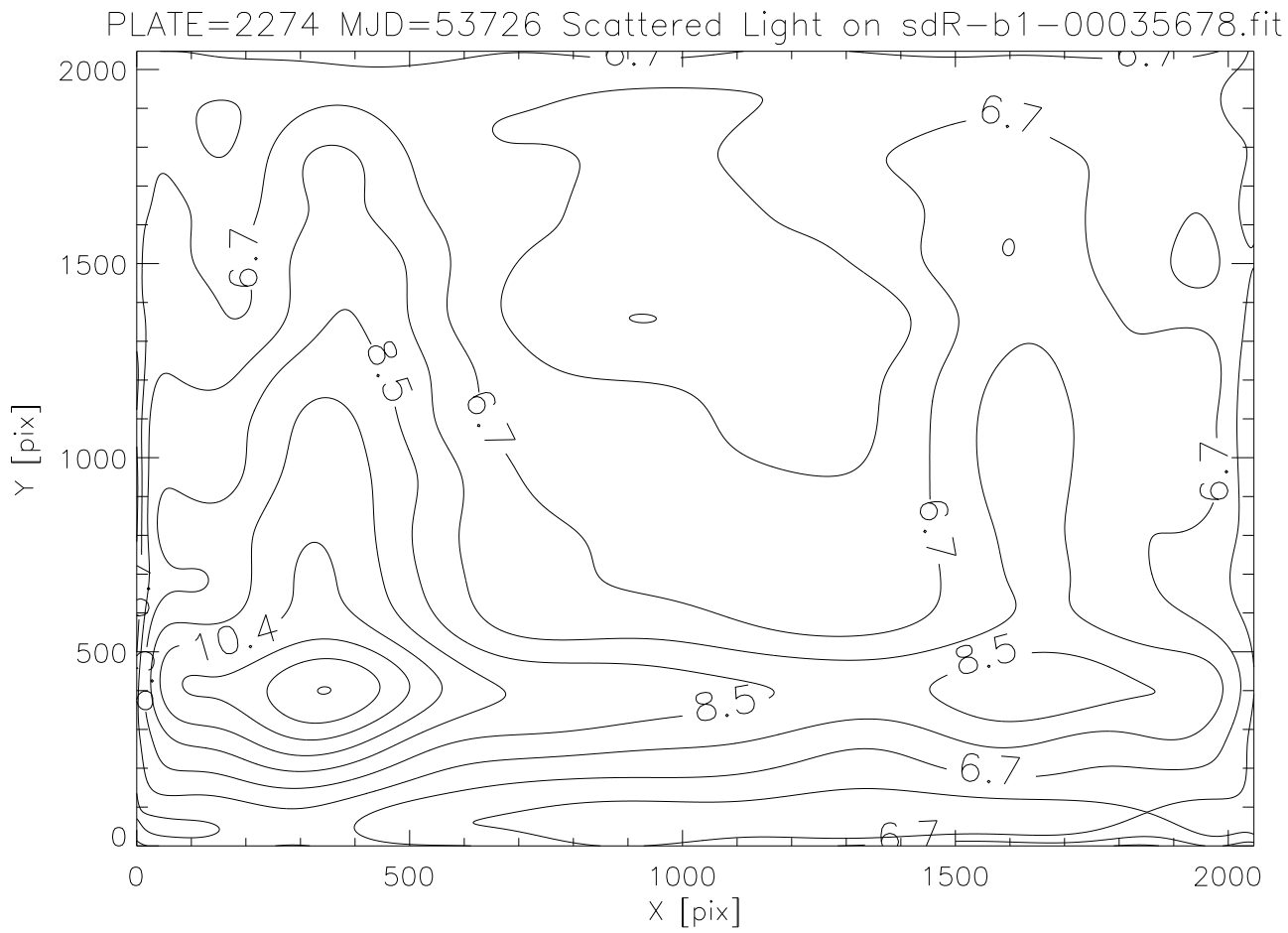

PLATE=2274 MJD=53726 sdR-b1-00035677.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 10.94 %
Fiber number
Focal Distance [mm]
Airmass

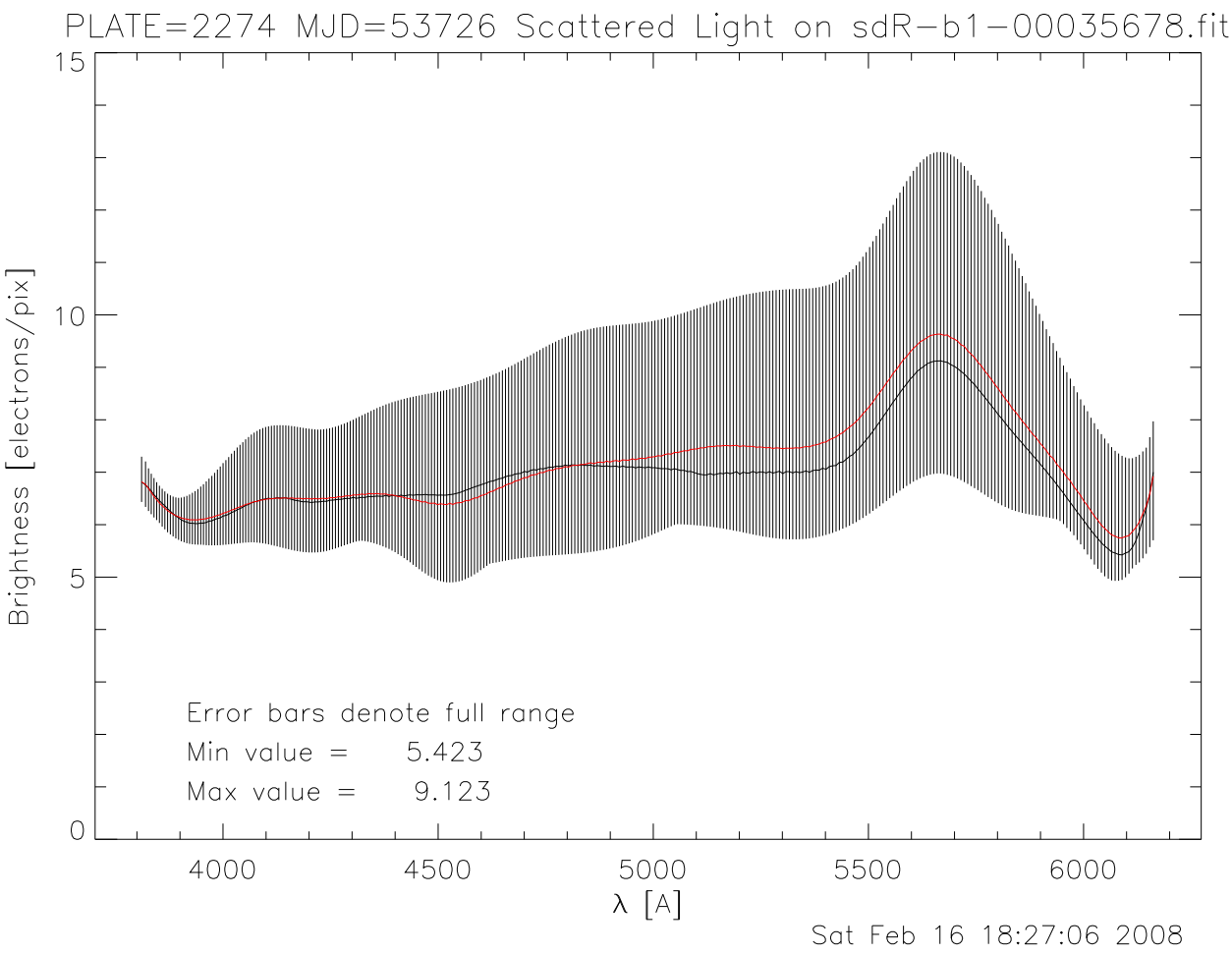

PLATE=2274 MJD=53726 sdR-b1-00035677.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.71 %
Fiber number
Focal Distance [mm]
Airmass

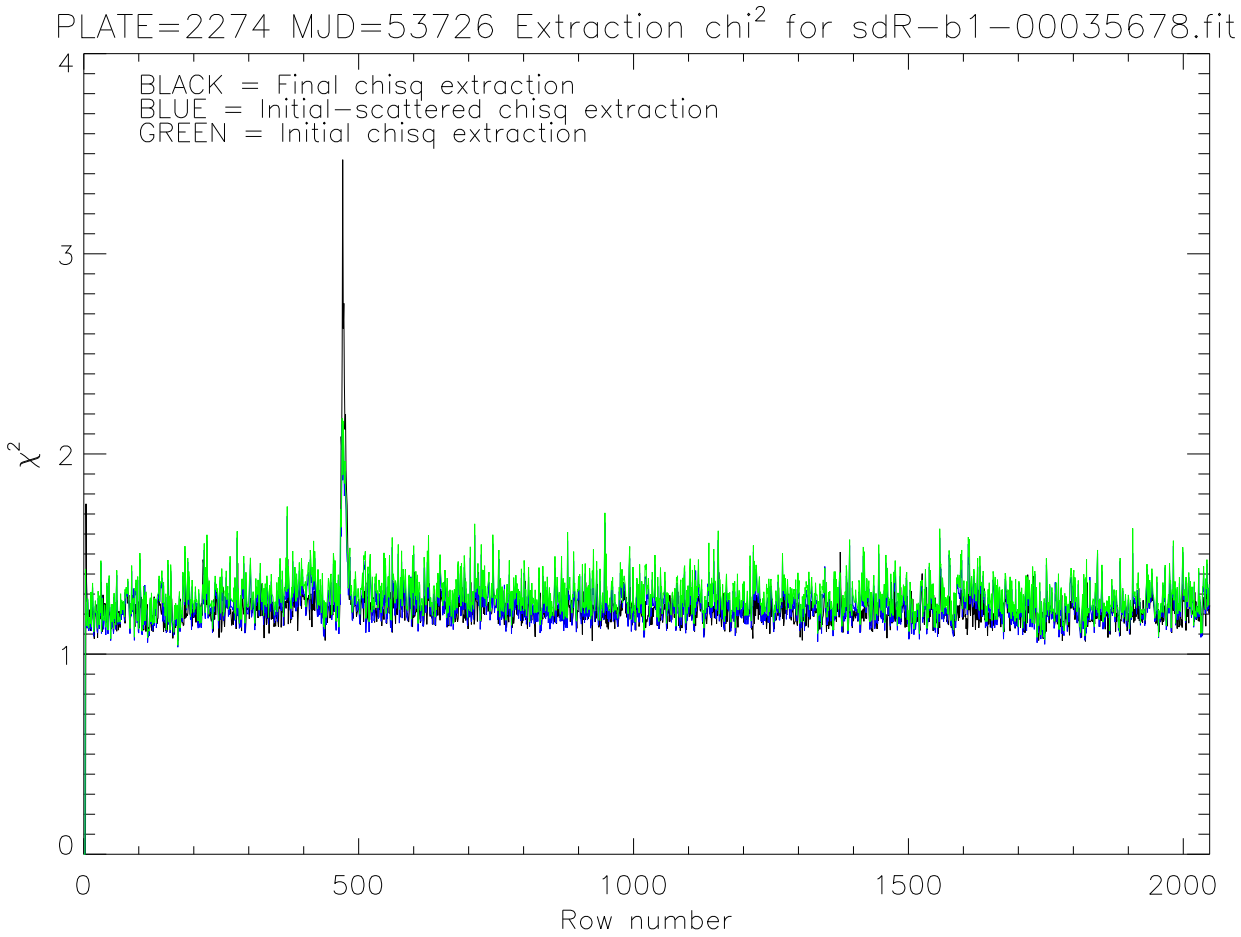

PLATE=2274 MJD=53726 Fiber-Flats for sdR-b1-00035682.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.108
Max value = 1.220
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 18:24:06 2008

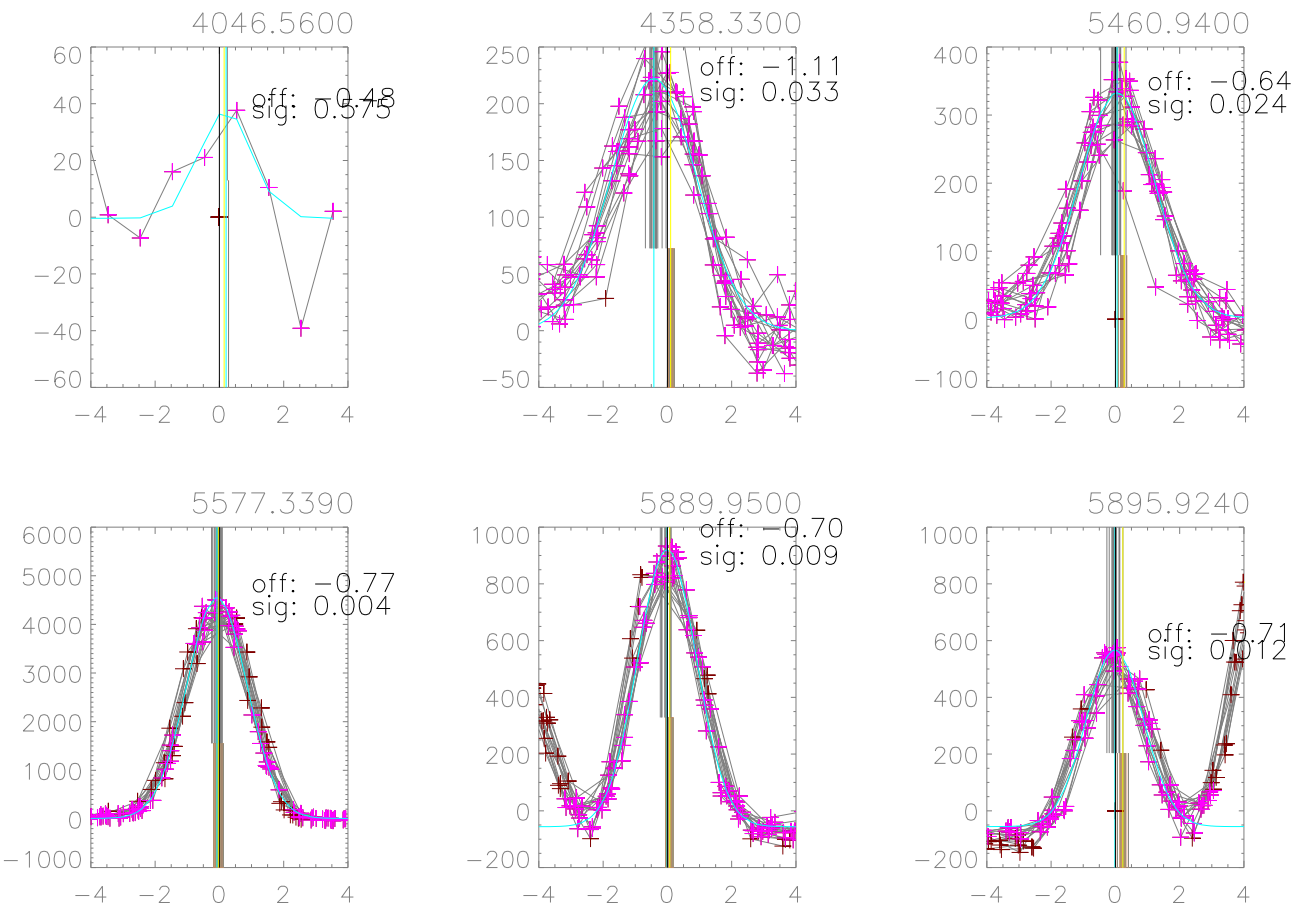

PLATE=2274 MJD=53726 Scattered Light before halo removal on sdR−b1−00035678.f
10.5
14.1
17.7
0
Y [pix]
X [pix]
0
500
1000
1500
2000

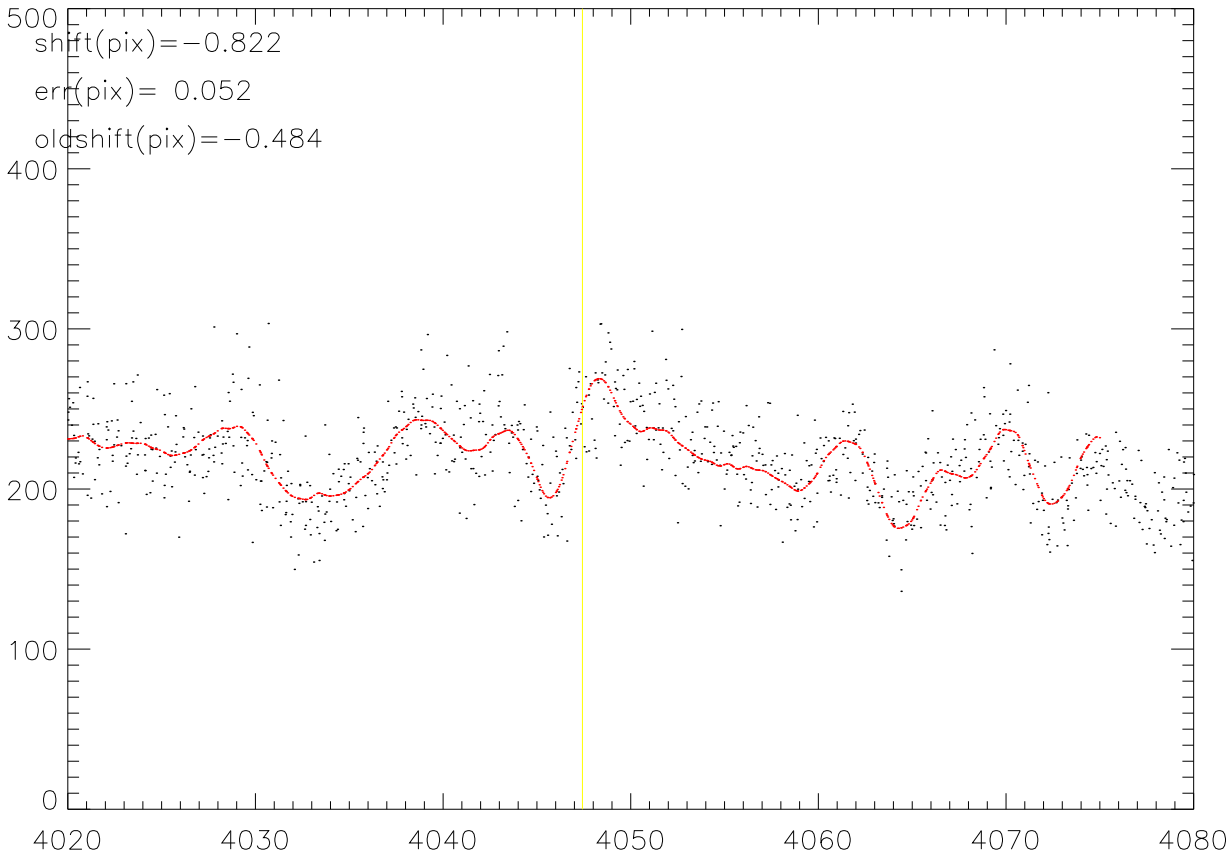

PLATE=2274 MJD=53726 Scattered Light before halo removal on sdR-b1-00035678.f
Brightness [electrons/pix]
25
20
15
10
5
0
Error bars denote full range
Min value = 9.985
Max value = 16.372
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 18:24:53 2008

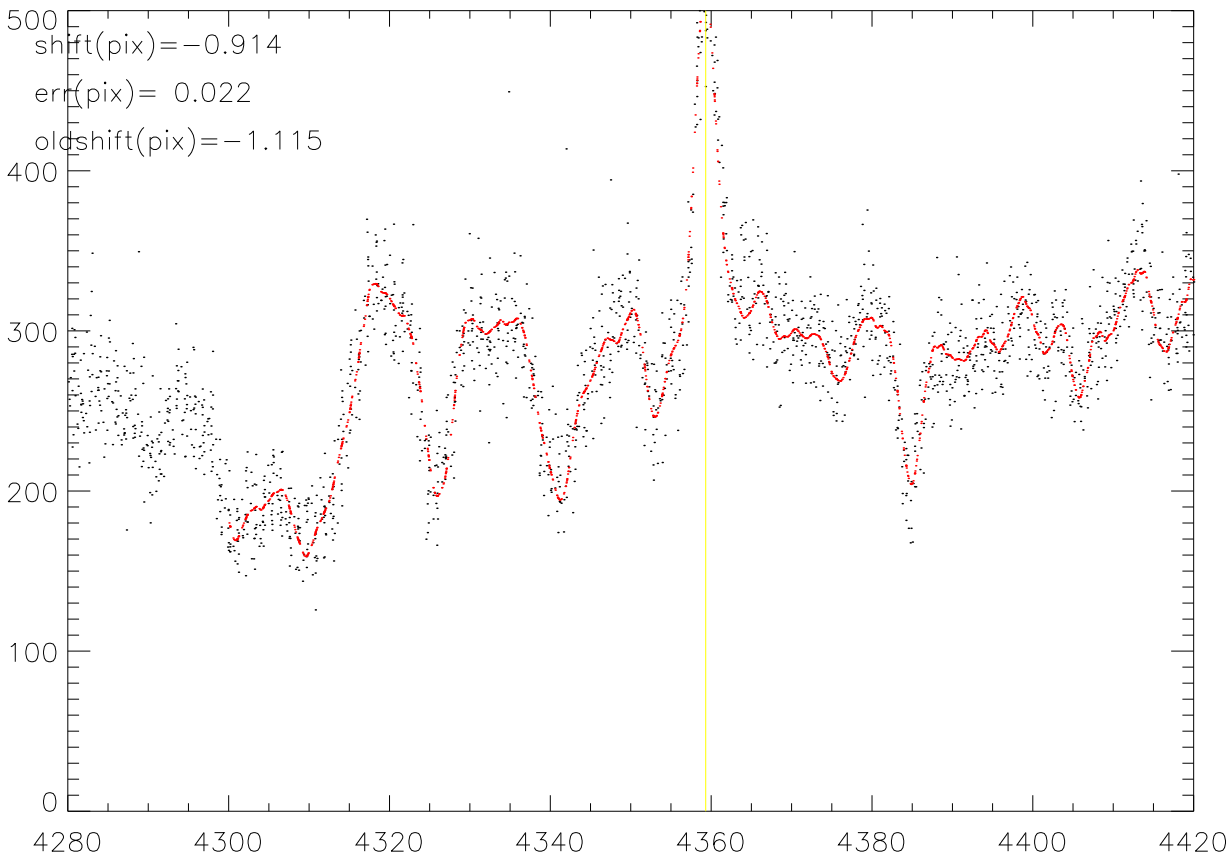

PLATE=2274 MJD=53726 Scattered Light on sdR-b1-00035678.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
6.7
8.5
10.4
0

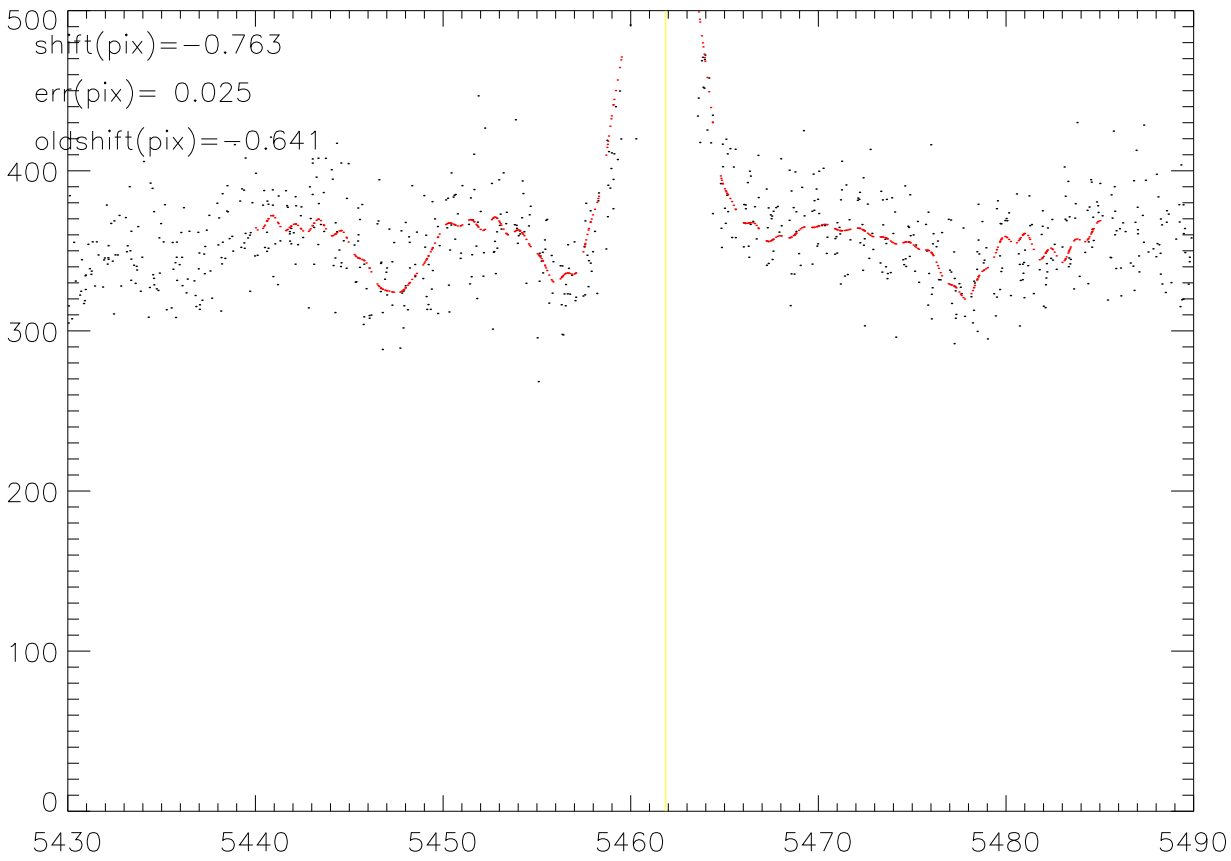

PLATE=2274 MJD=53726 Scattered Light on sdR-b1-00035678.fit
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 5.423
Max value = 9.123
Sat Feb 16 18:27:06 2008

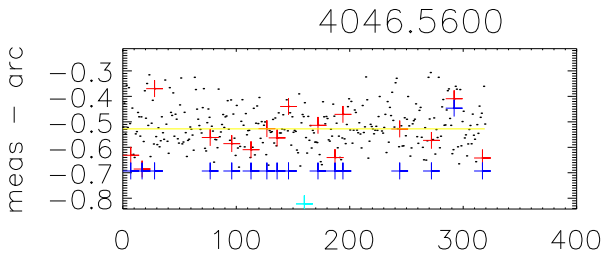

PLATE=2274 MJD=53726 Extraction chi^2 for sdR−b1−00035678.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

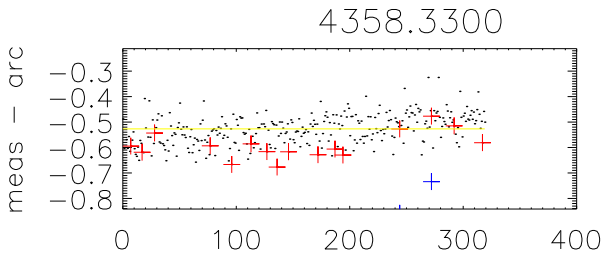

4046.5600
off: −0.48
sig: 0.575
4358.3300
off: −1.11
sig: 0.033
5460.9400
off: −0.64
sig: 0.024
5577.3390
off: −0.77
sig: 0.004
5889.9500
off: −0.70
sig: 0.009
5895.9240
off: −0.71
sig: 0.012

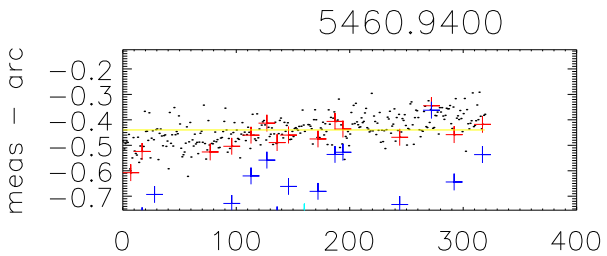

shift(pix)=−0.822
err(pix)= 0.052
oldshift(pix)=−0.484
500
400
300
200
100
0
4020
4030
4040
4050
4060
4070
4080

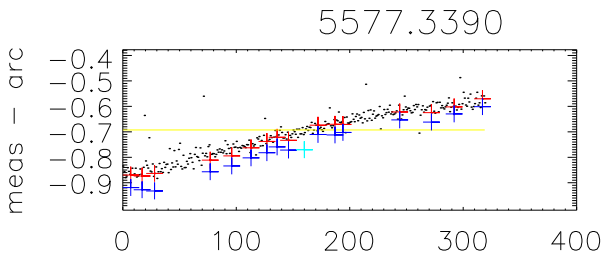

shift(pix)=−0.914
err(pix)= 0.022
oldshift(pix)=−1.115
500
400
300
200
100
0
4280
4300
4320
4340
4360
4380
4400
4420

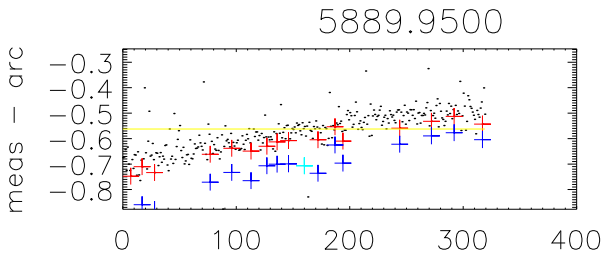

shift(pix)=−0.763
err(pix)= 0.025
oldshift(pix)=−0.641
500
400
300
200
100
0
5430
5440
5450
5460
5470
5480
5490

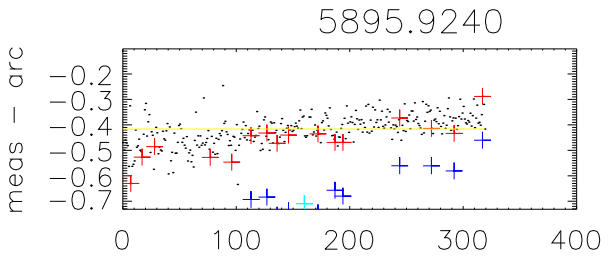

4046.5600
meas − arc
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
0
100
200
300
400

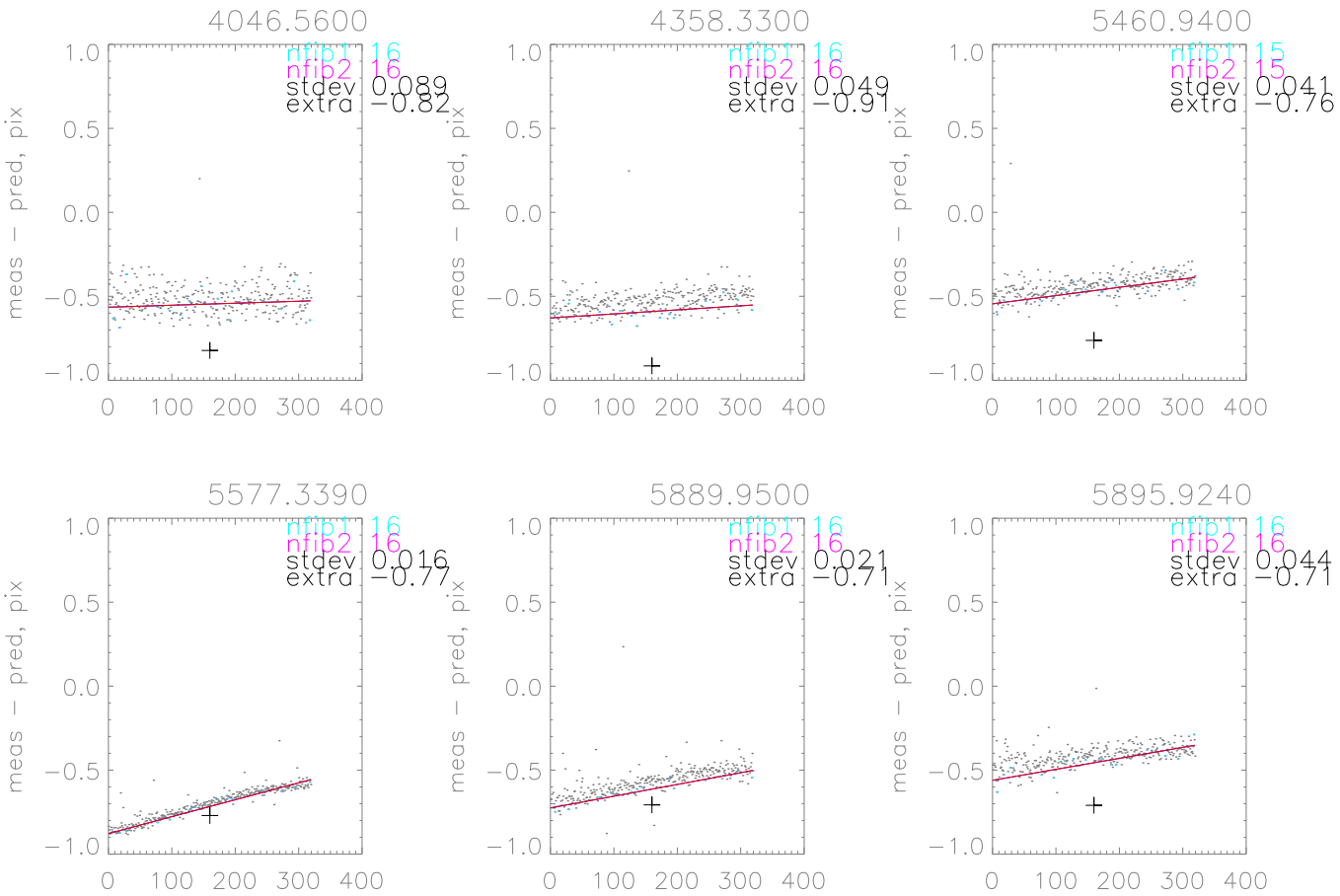

4358.3300
meas − arc
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
0
100
200
300
400

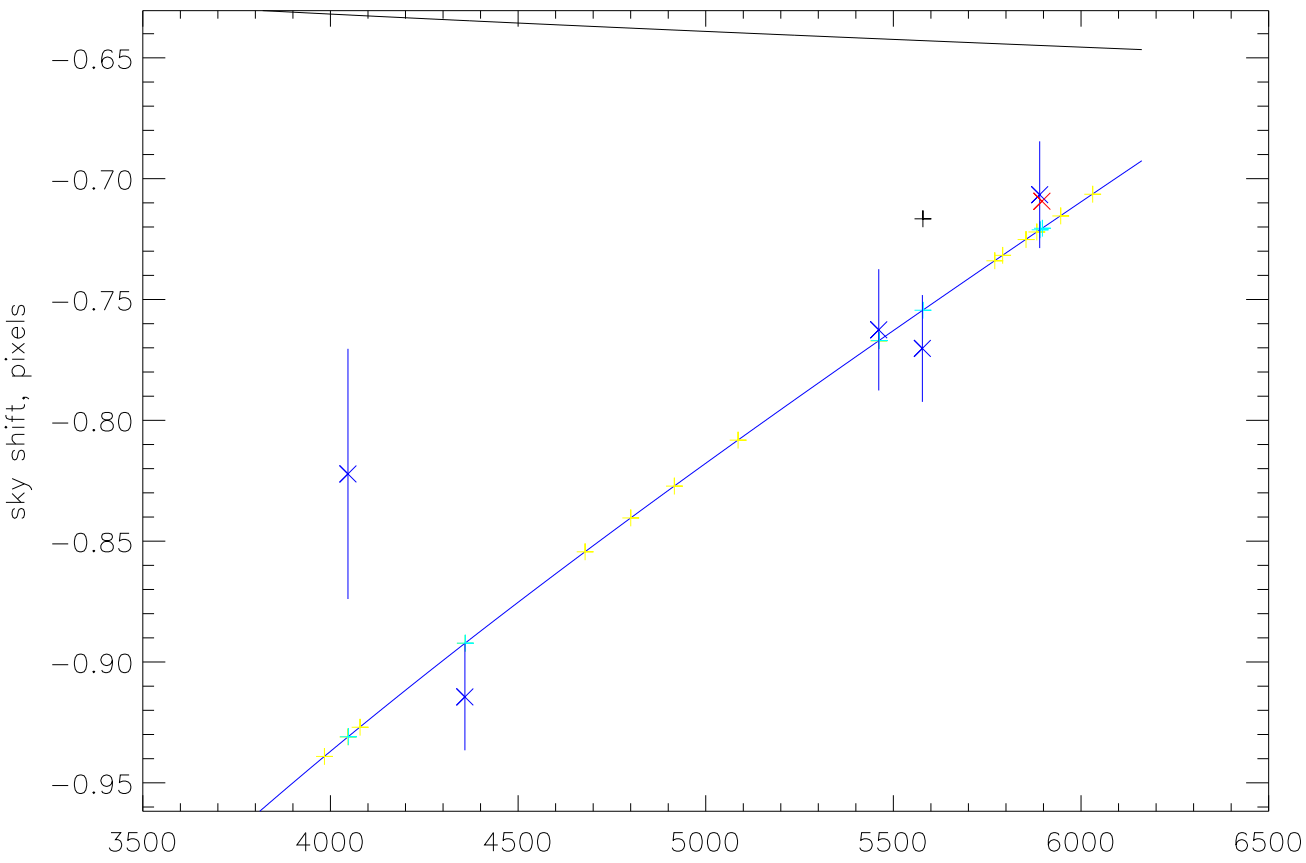

5460.9400
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

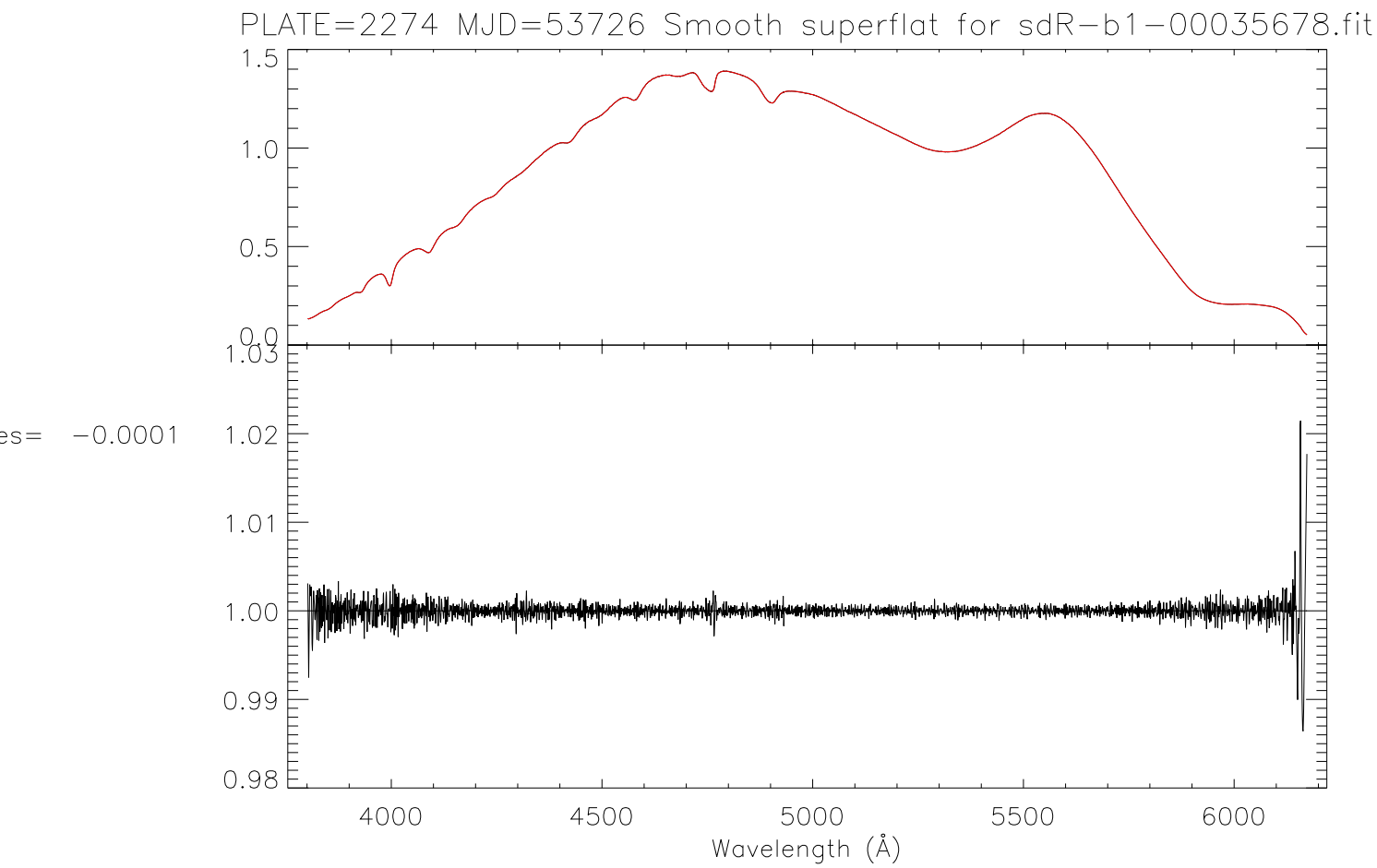

5577.3390
meas − arc
−0.4
−0.5
−0.6
−0.7
−0.8
−0.9
0
100
200
300
400


5889.9500
meas − arc
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
0
100
200
300
400

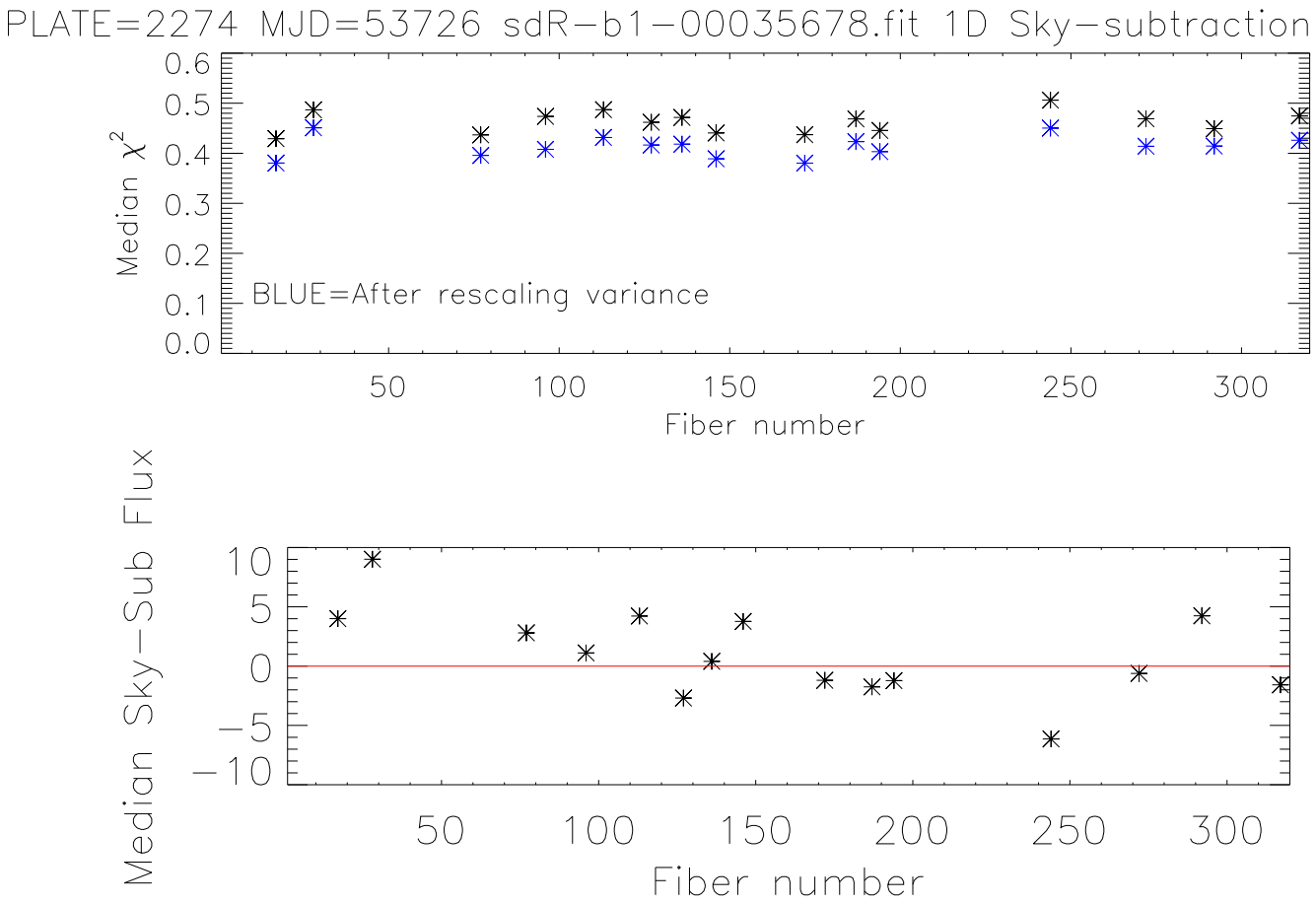

5895.9240
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

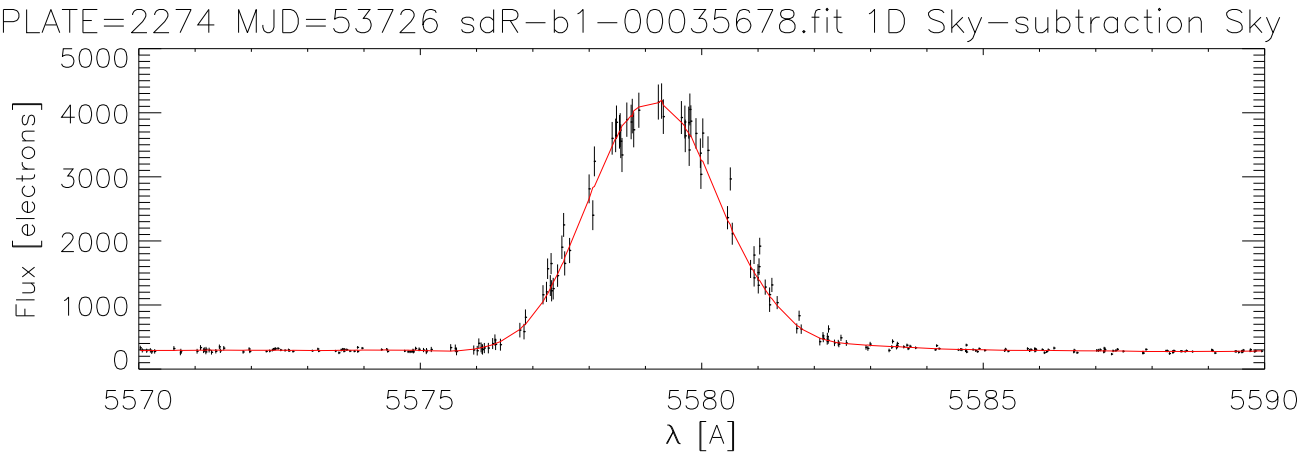

4046.5600
nfib1 16
nfib2 16
stdev 0.089
extra −0.82
4358.3300
nfib1 16
nfib2 16
stdev 0.049
extra −0.91
5460.9400
nfib1 15
nfib2 15
stdev 0.041
extra −0.76
5577.3390
nfib1 16
nfib2 16
stdev 0.016
extra −0.77
5889.9500
nfib1 16
nfib2 16
stdev 0.021
extra −0.71
5895.9240
nfib1 16
nfib2 16
stdev 0.044
extra −0.71
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

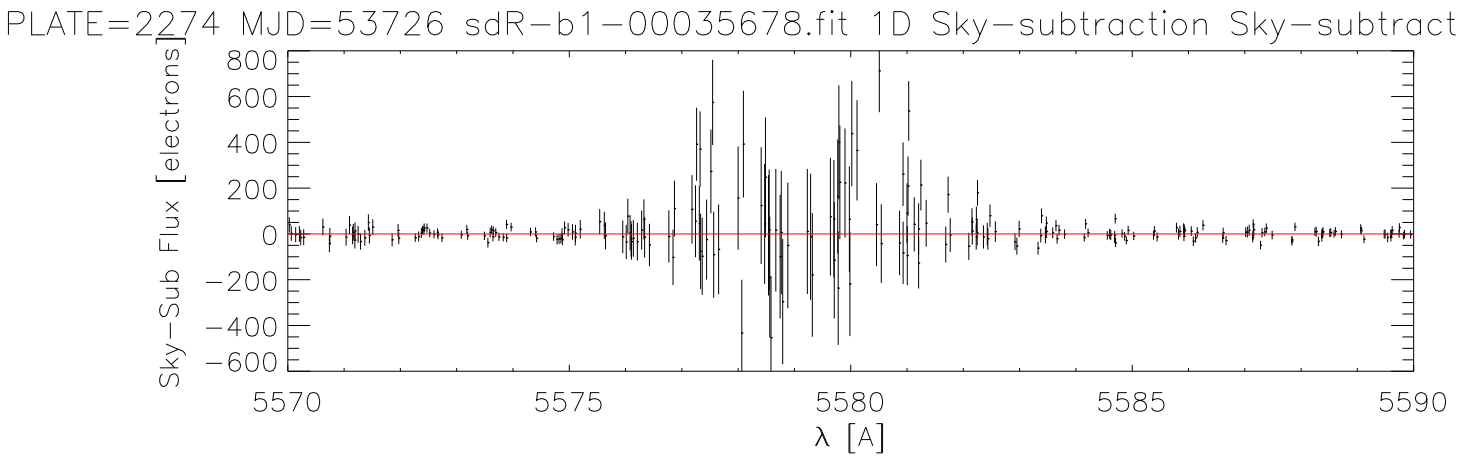

sky shift, pixels
−0.65
−0.70
−0.75
−0.80
−0.85
−0.90
−0.95
3500
4000
4500
5000
5500
6000
6500

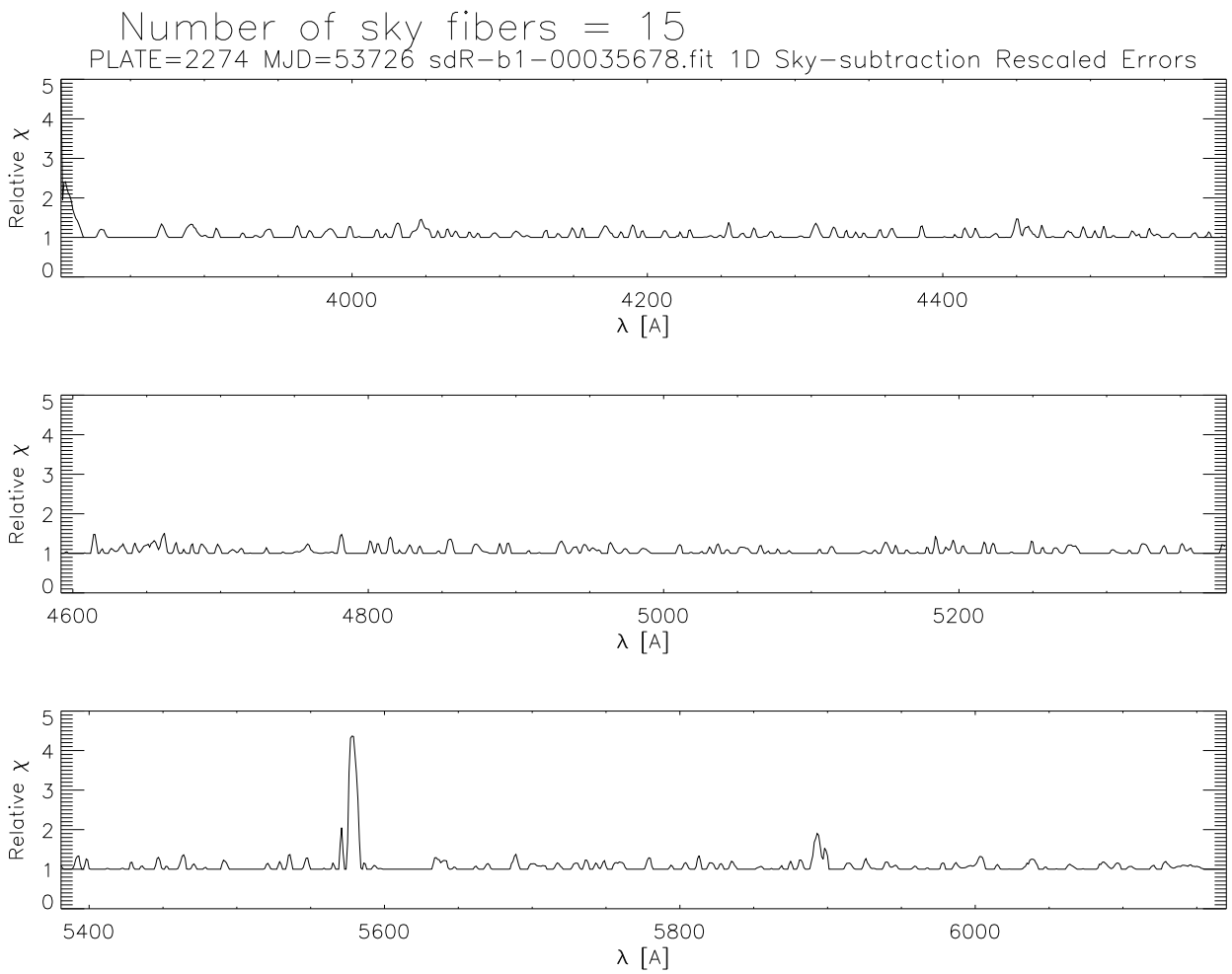

PLATE=2274 MJD=53726 Smooth superflat for sdR-b1-00035678.fit
1.5
1.0
0.5
0.0
1.03
1.02
1.01
1.00
0.99
0.98
4000
4500
5000
5500
6000
Wavelength (Å)

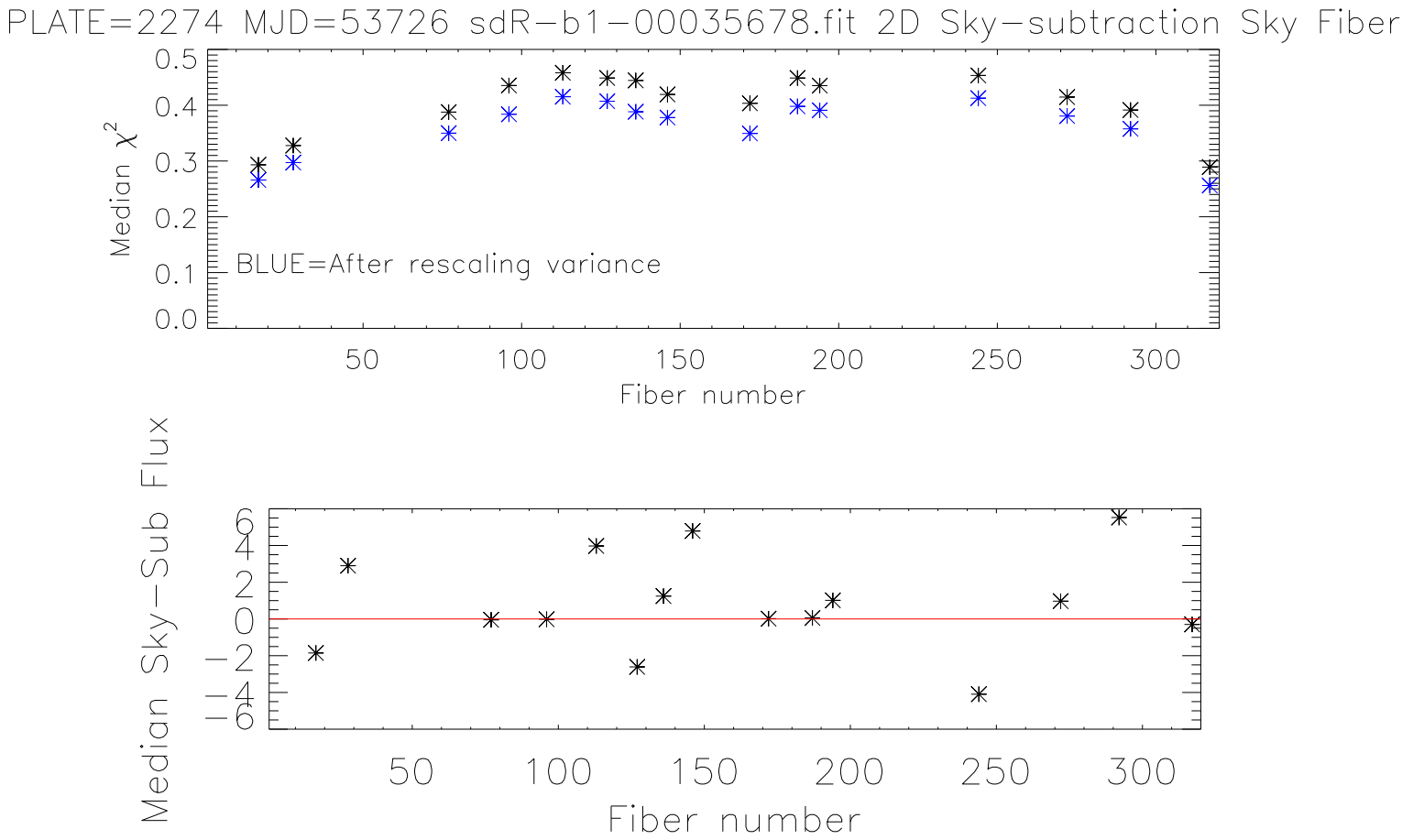
es= −0.0001

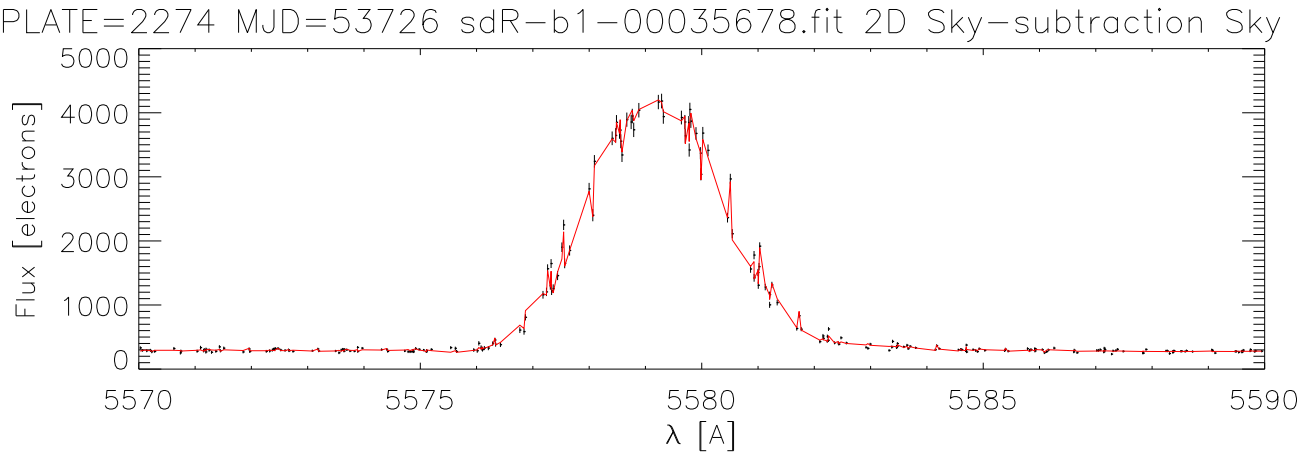

PLATE=2274 MJD=53726 sdR-b1-00035678.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

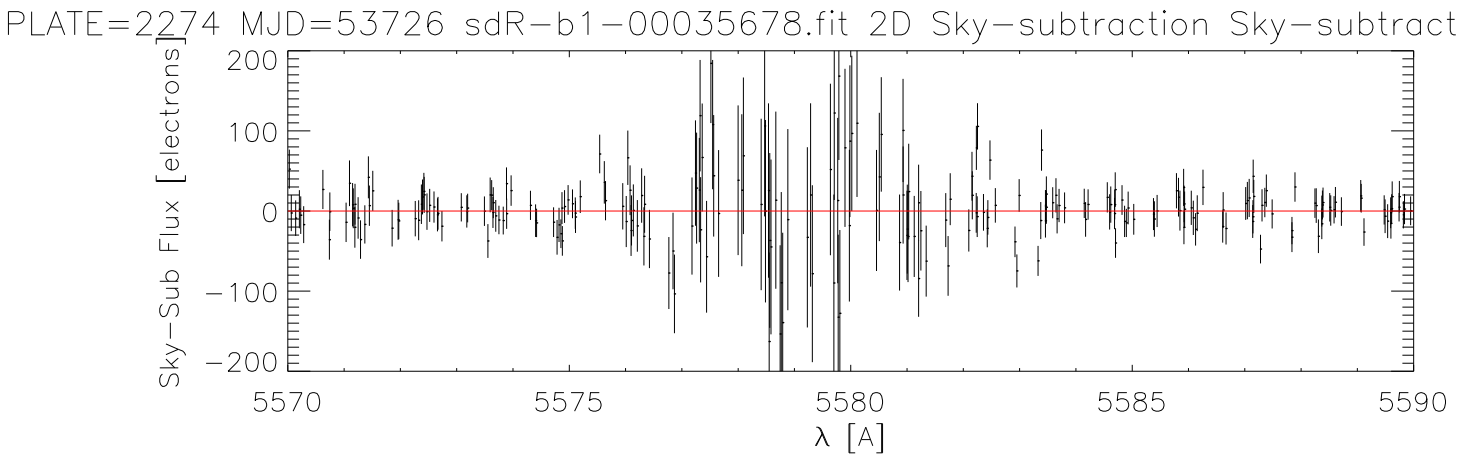

PLATE=2274 MJD=53726 sdR-b1-00035678.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

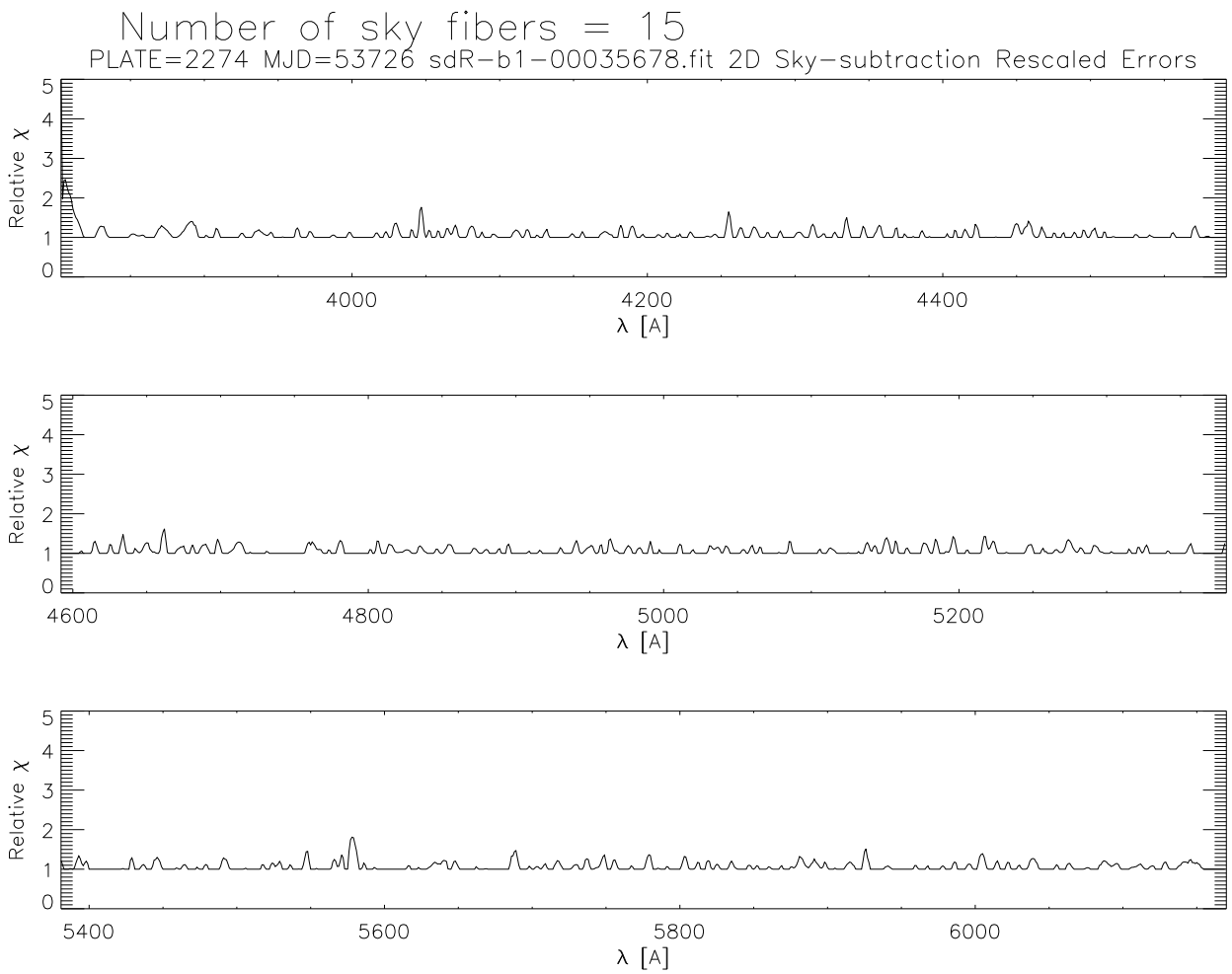

PLATE=2274 MJD=53726 sdR-b1-00035678.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

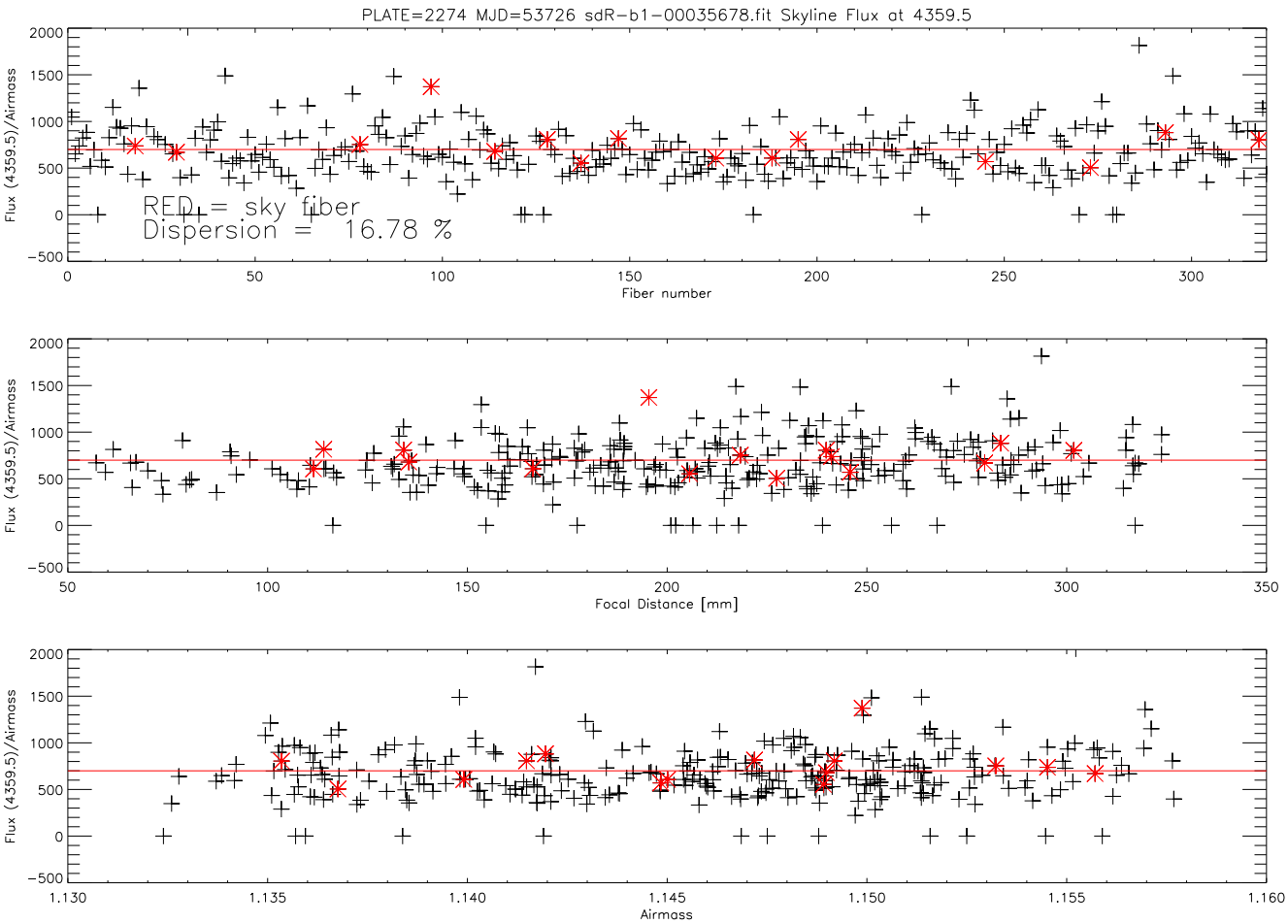

Number of sky fibers = 15
PLATE=2274 MJD=53726 sdR-b1-00035678.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

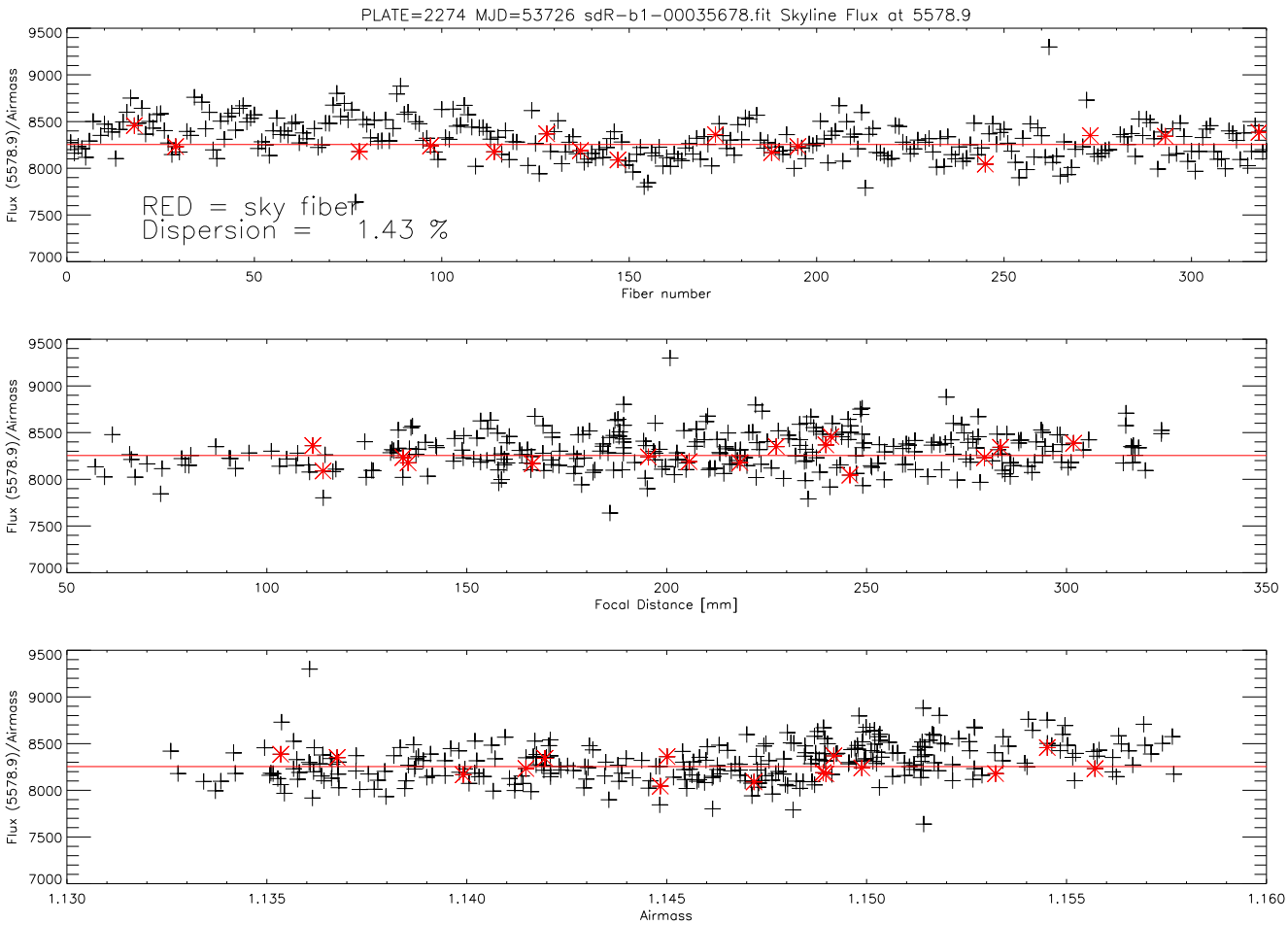

PLATE=2274 MJD=53726 sdR-b1-00035678.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

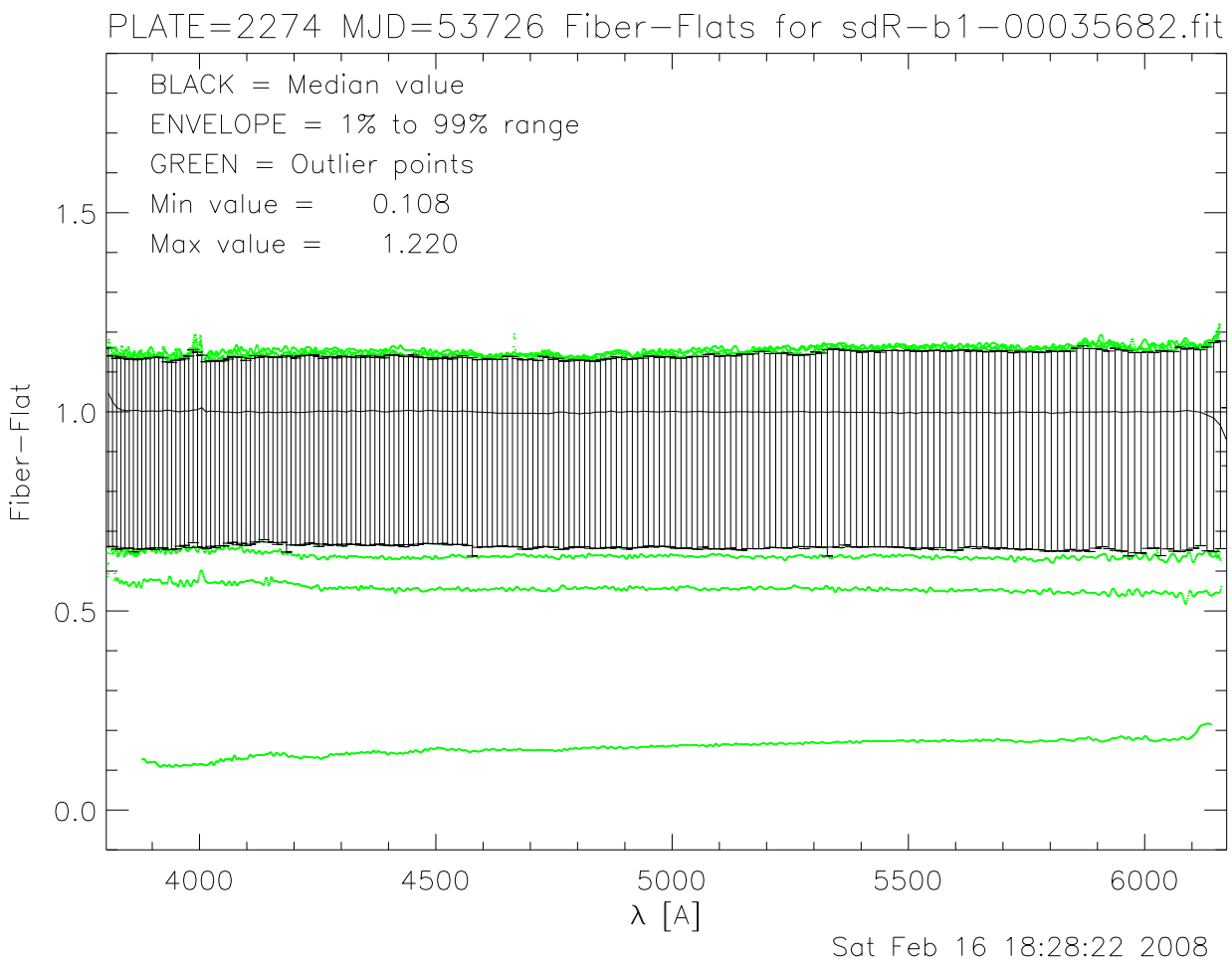

PLATE=2274 MJD=53726 sdR-b1-00035678.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

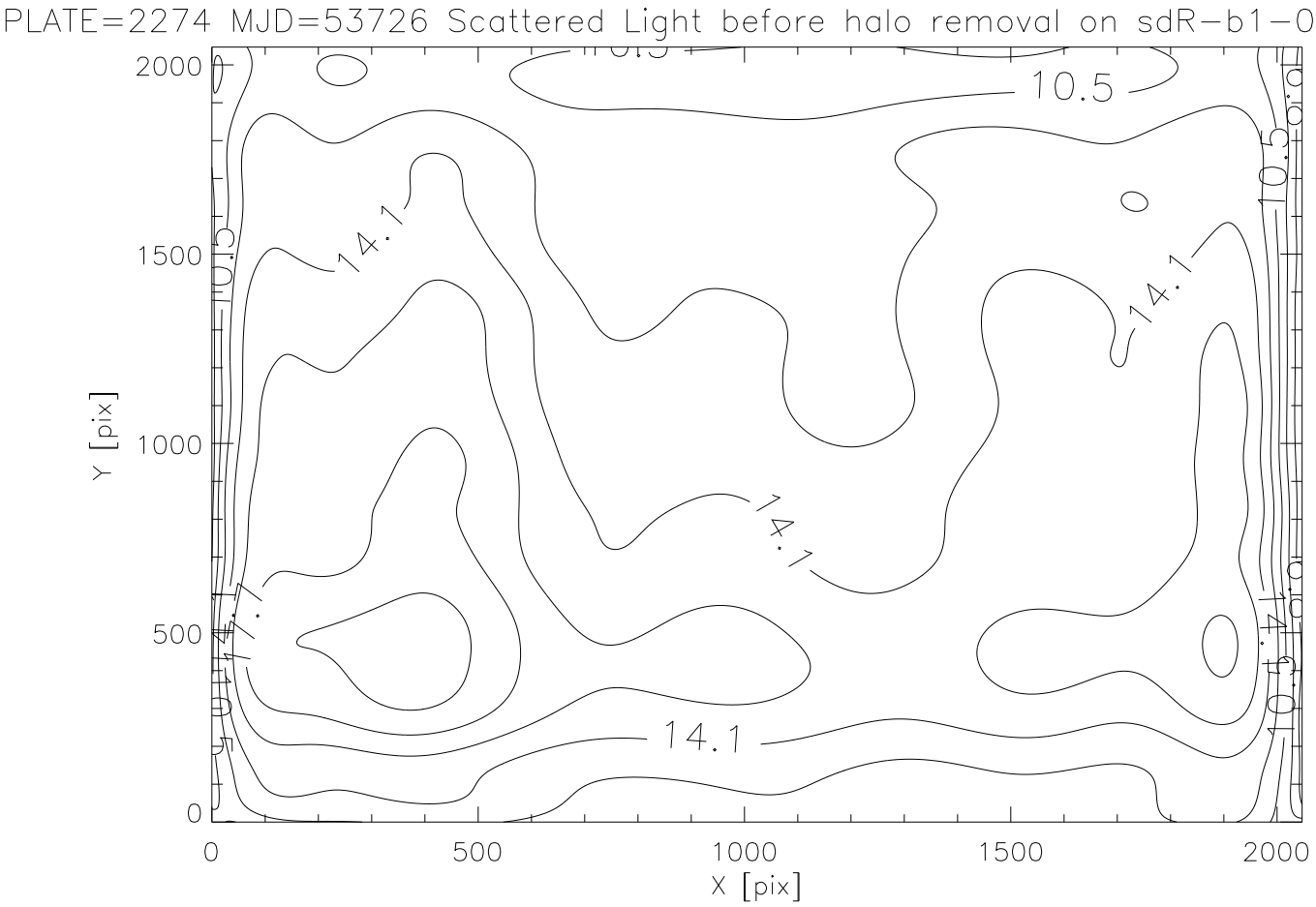

PLATE=2274 MJD=53726 sdR-b1-00035678.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

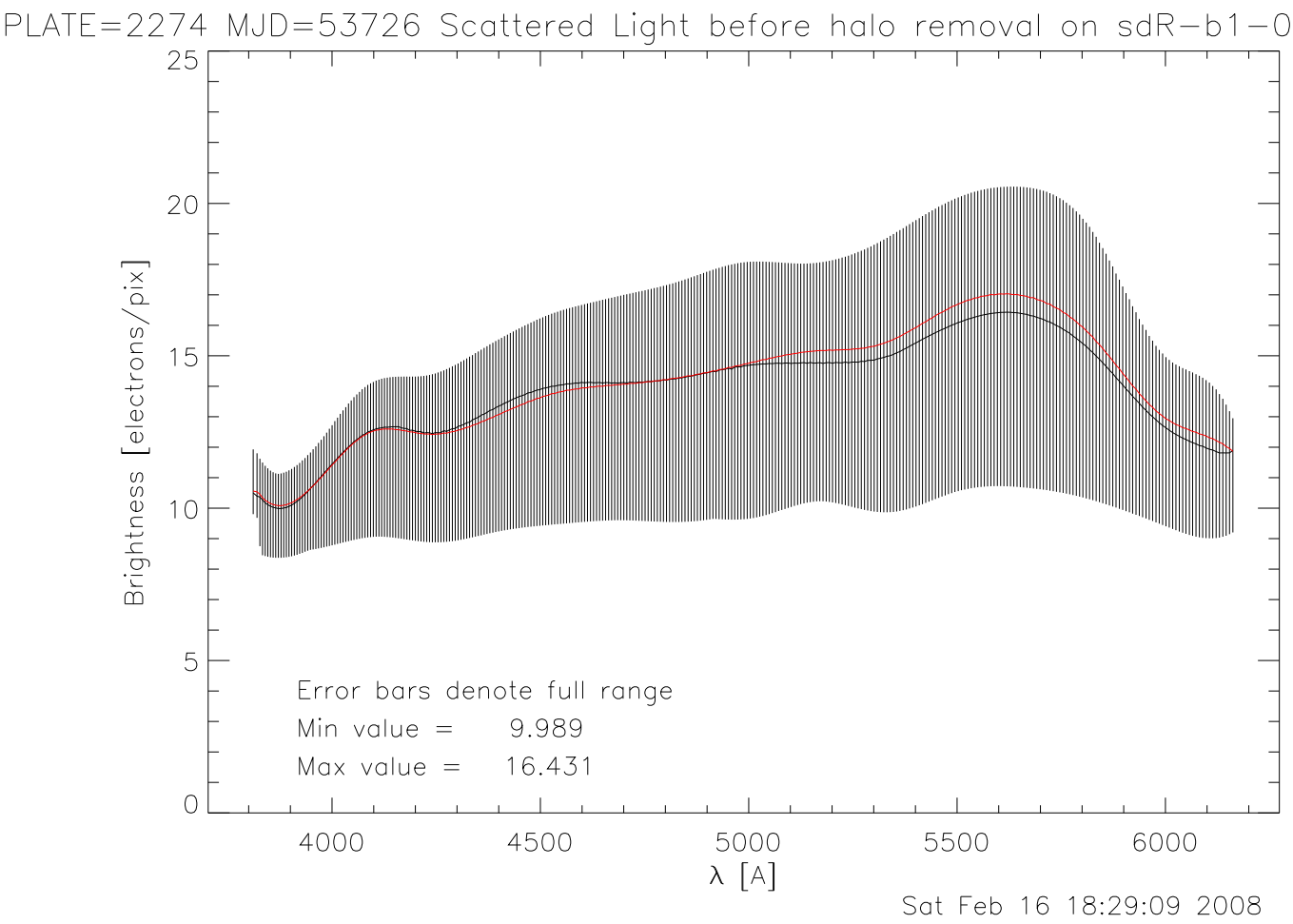

Number of sky fibers = 15
PLATE=2274 MJD=53726 sdR-b1-00035678.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

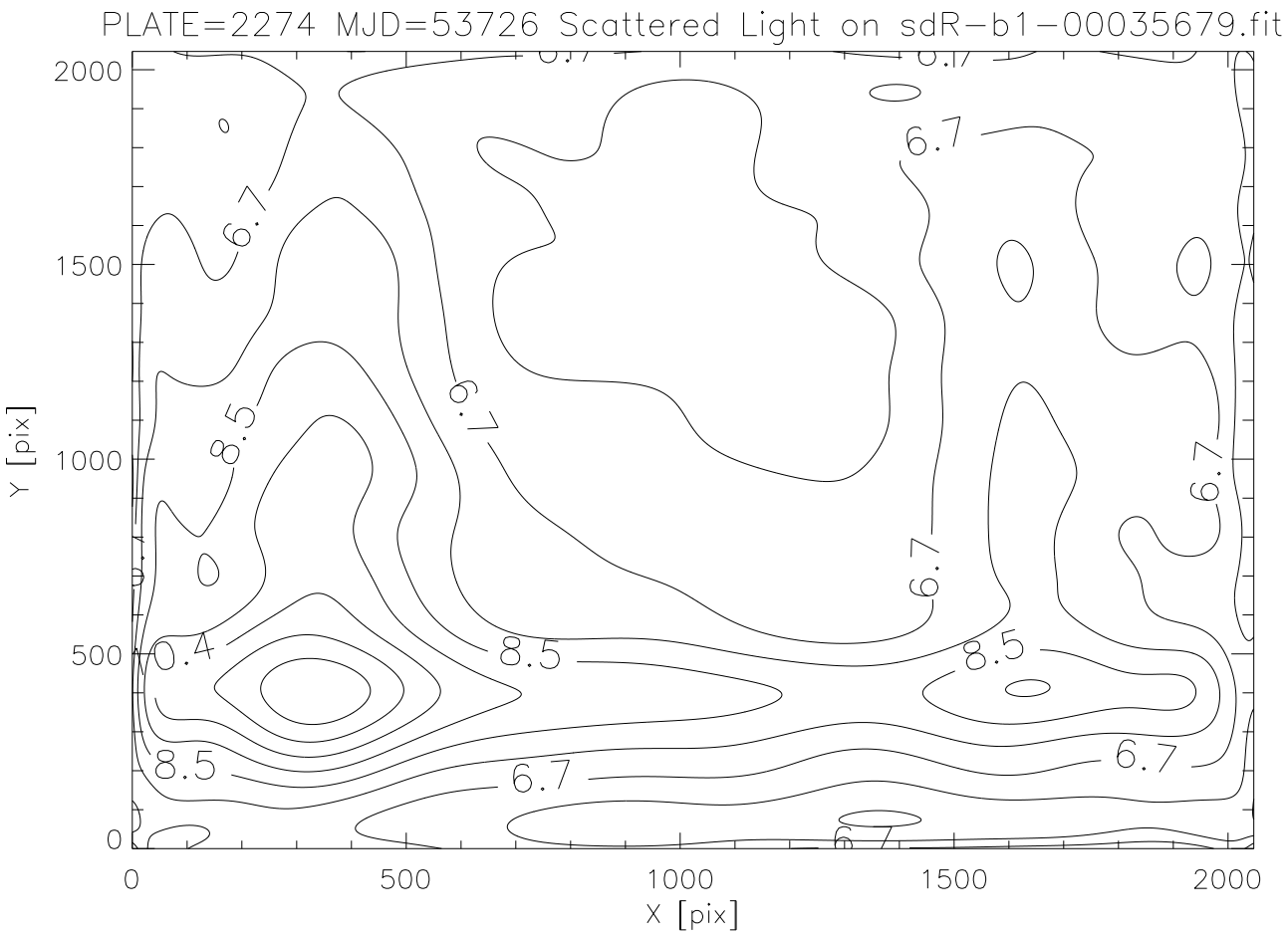

PLATE=2274 MJD=53726 sdR-b1-00035678.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED= sky fiber
Dispersion = 16.78 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

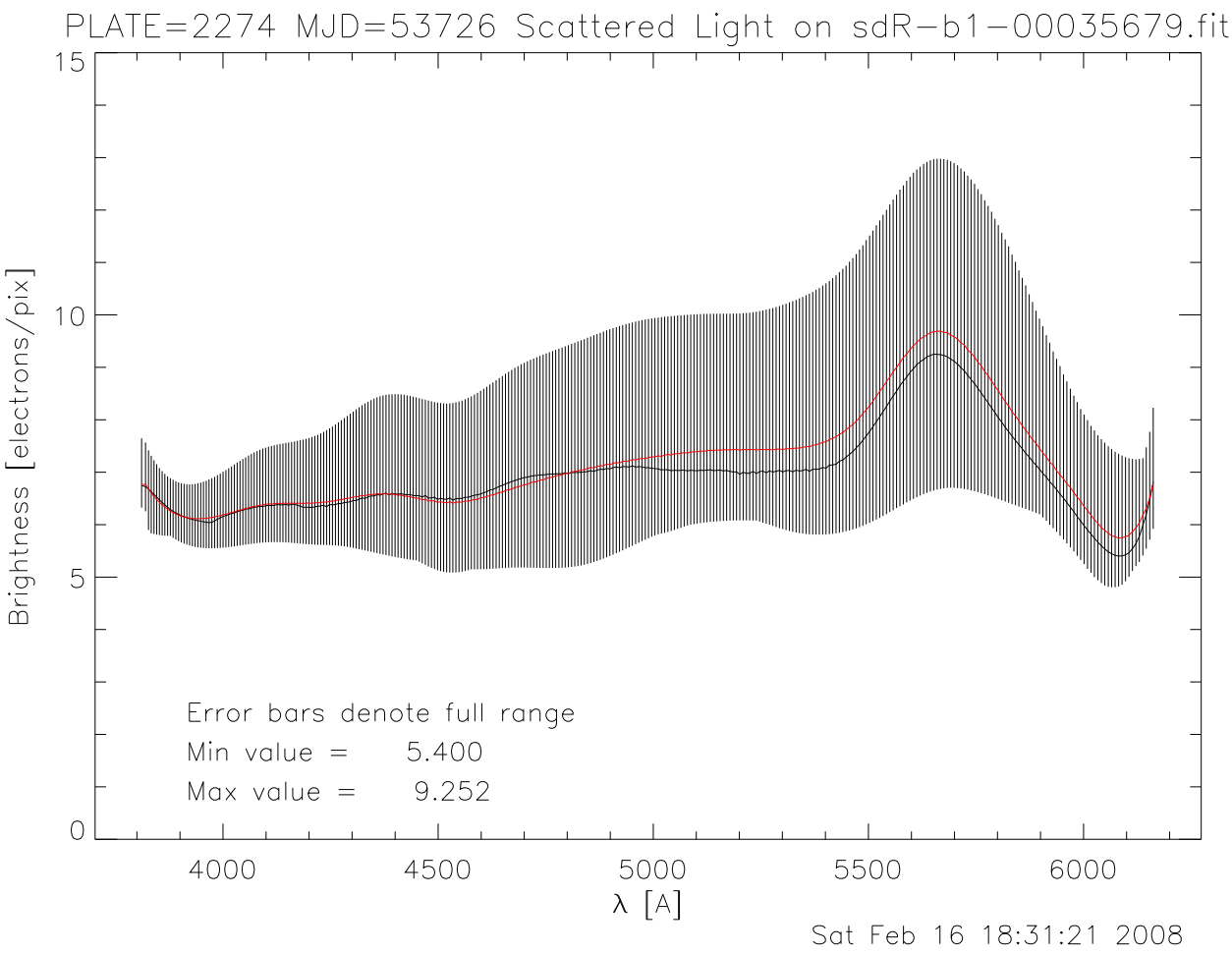

PLATE=2274 MJD=53726 sdR-b1-00035678.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.43 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

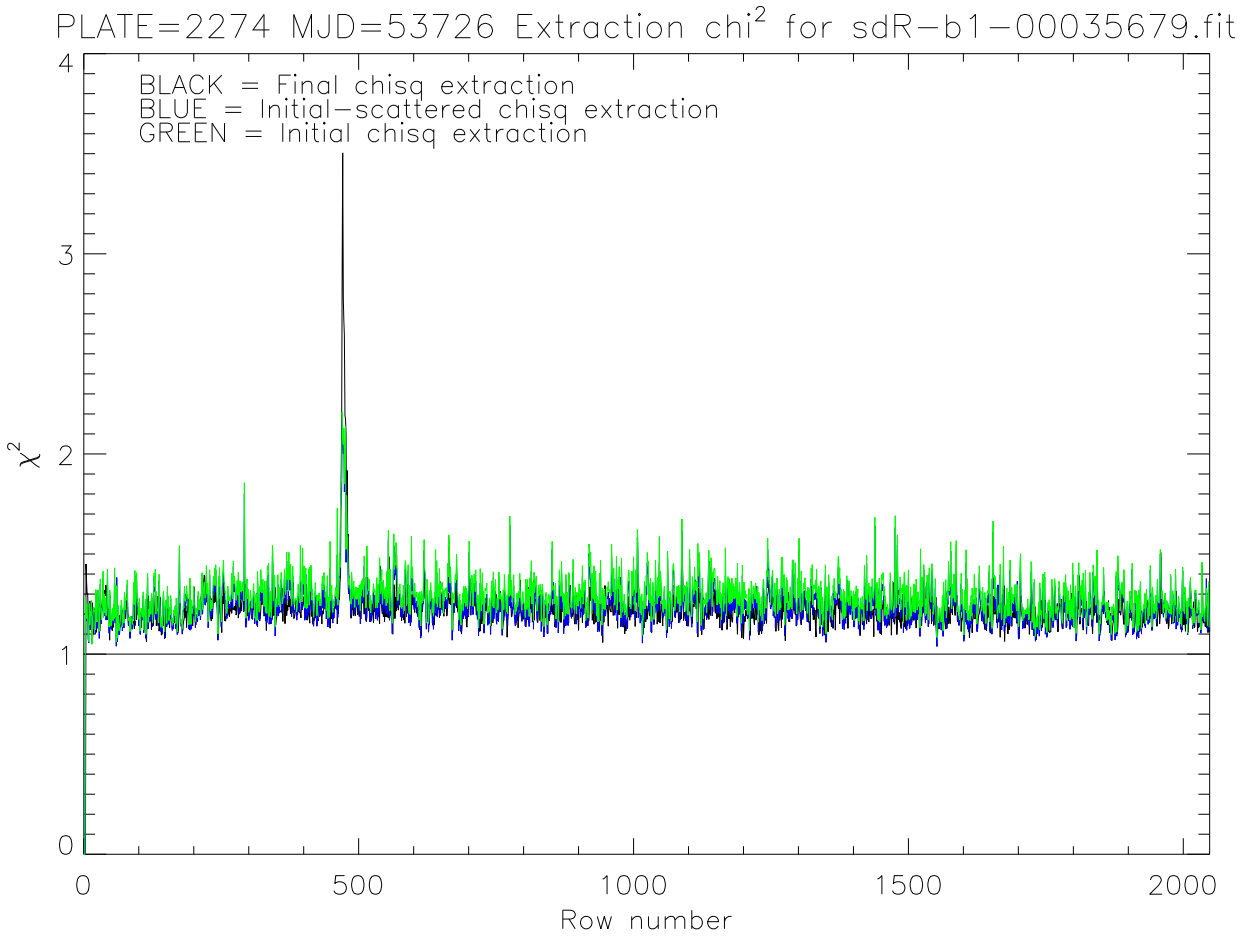

PLATE=2274 MJD=53726 Fiber-Flats for sdR-b1-00035682.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.108
Max value = 1.220
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 18:28:22 2008

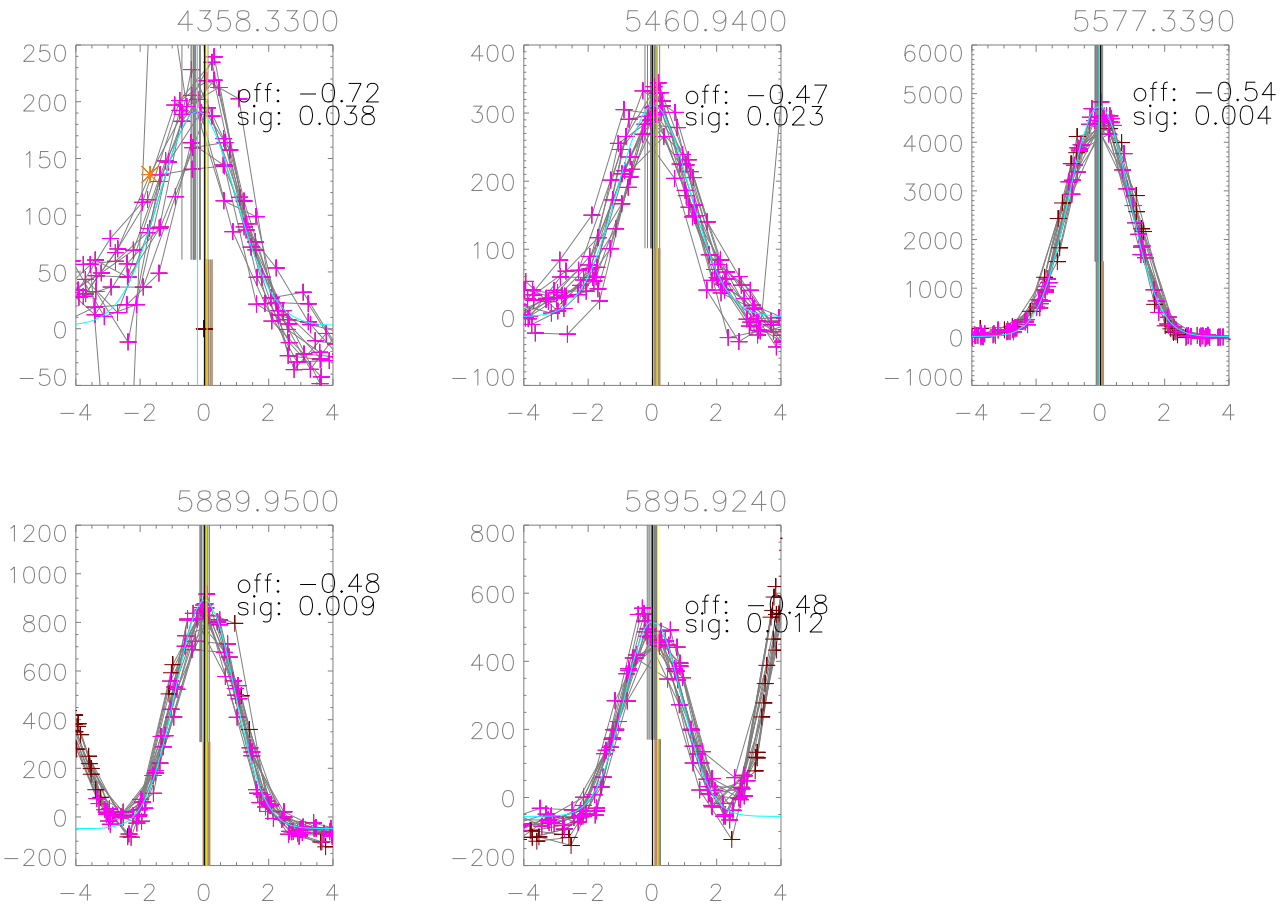

PLATE=2274 MJD=53726 Scattered Light before halo removal on sdR−b1−00035679.f
10.5
14.1
0
Y [pix]
X [pix]
0
500
1000
1500
2000

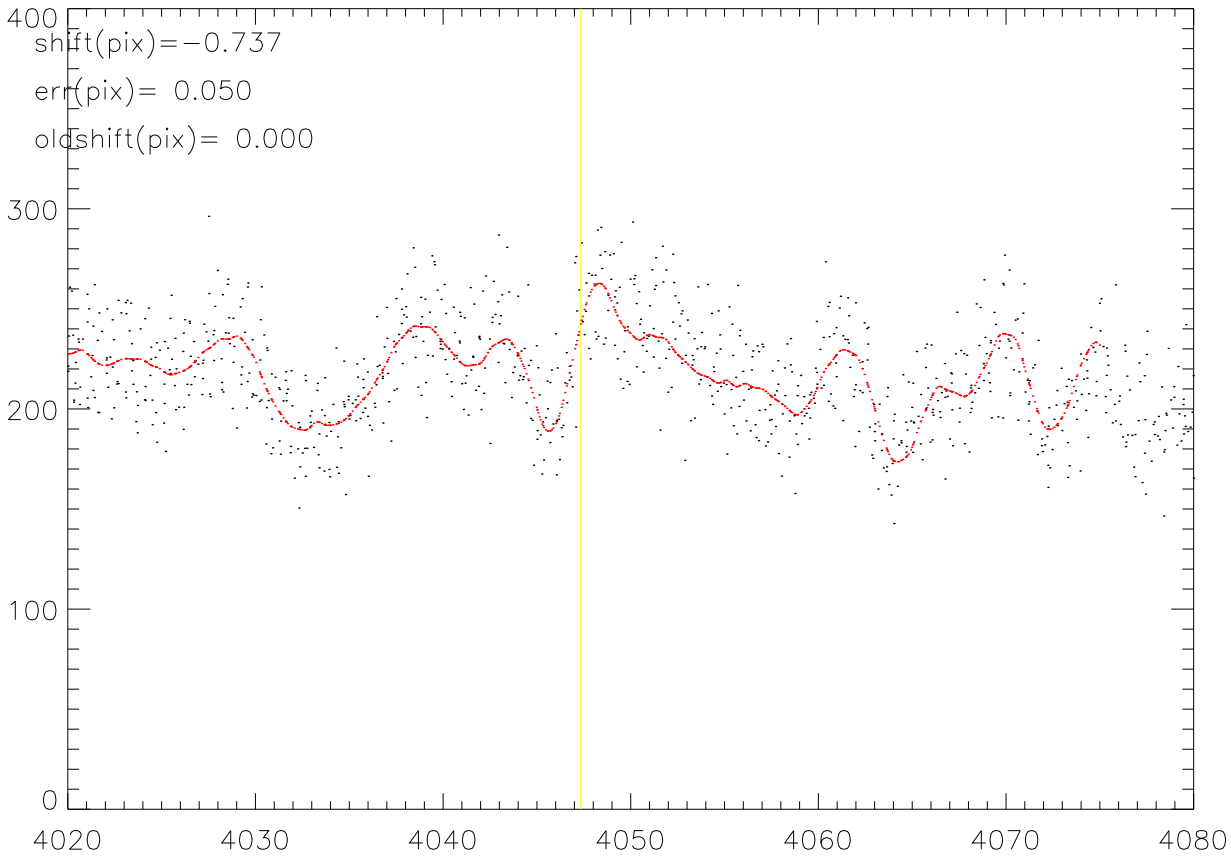

PLATE=2274 MJD=53726 Scattered Light before halo removal on sdR−b1−00035679.f
Brightness [electrons/pix]
25
20
15
10
5
0
Error bars denote full range
Min value = 9.989
Max value = 16.431
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 18:29:09 2008

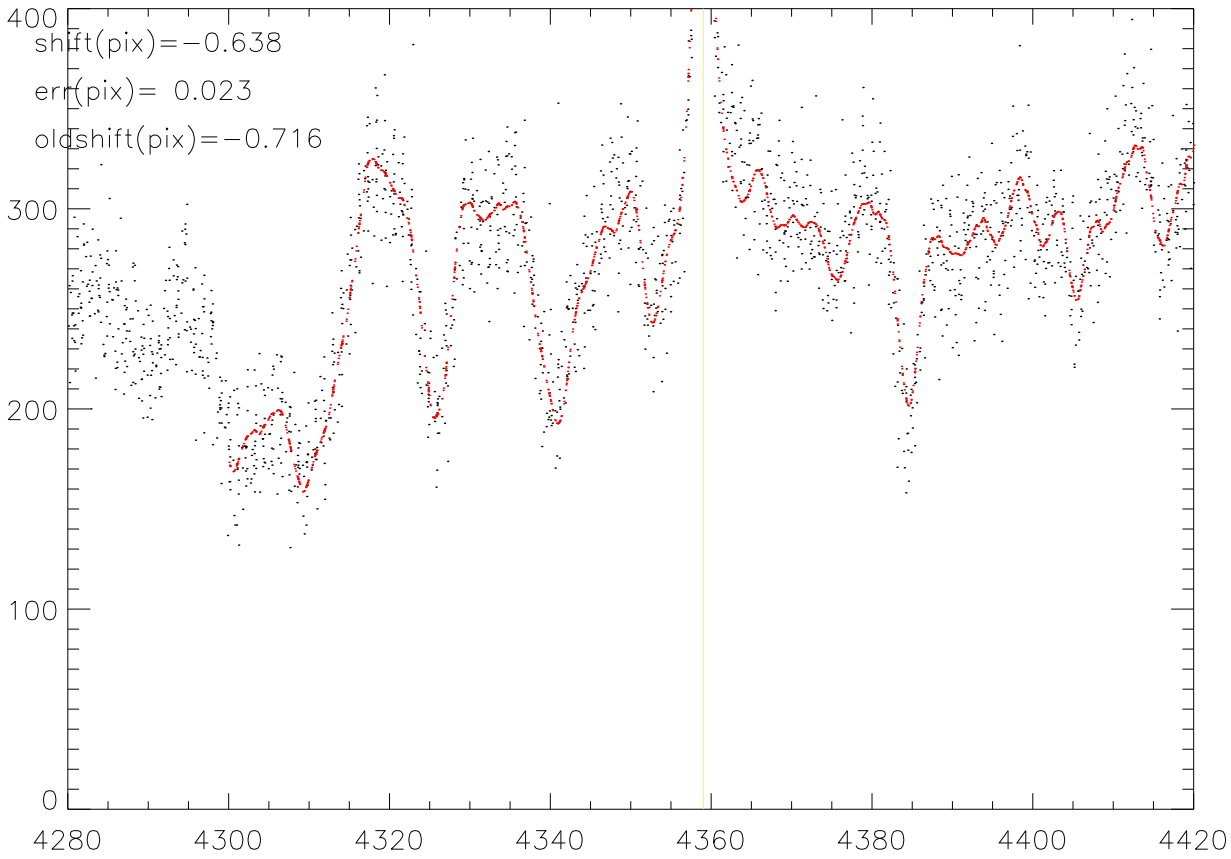

PLATE=2274 MJD=53726 Scattered Light on sdR-b1-00035679.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
6.7
8.5
0.4

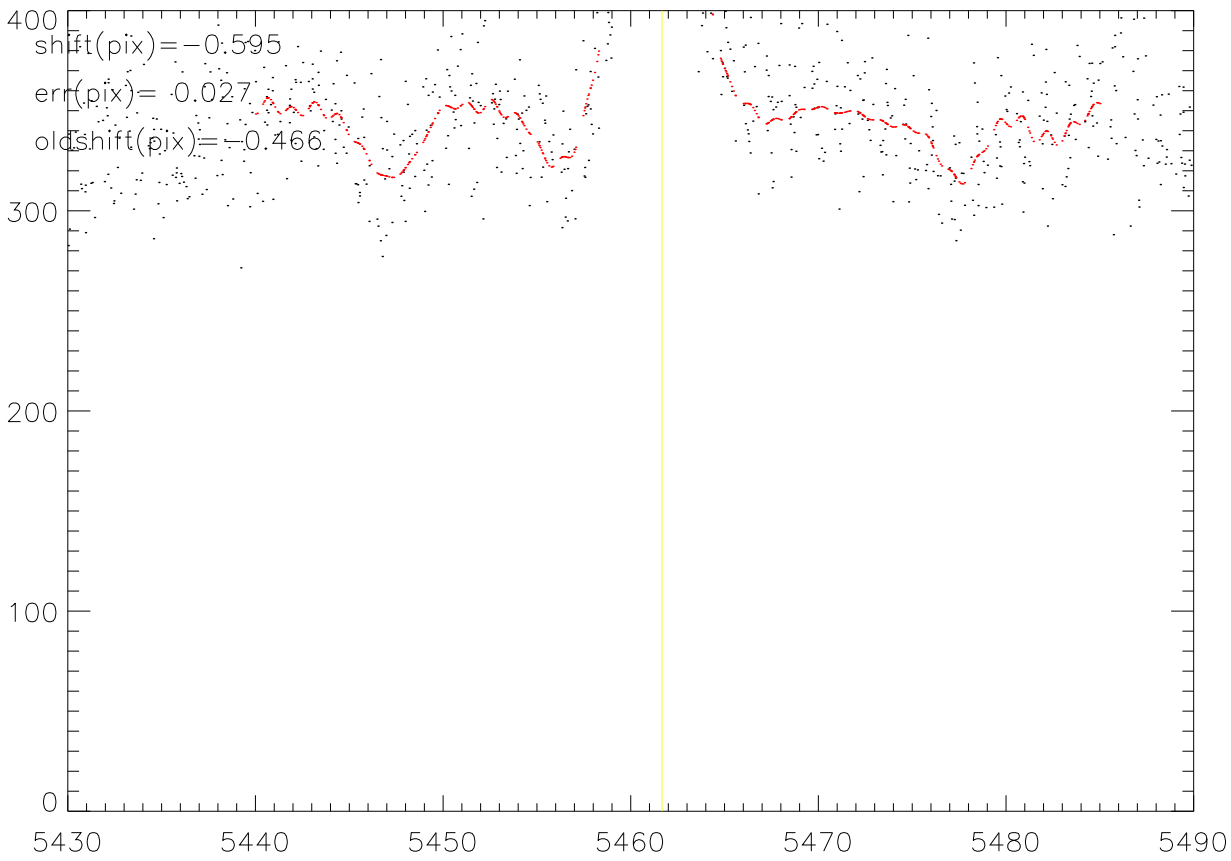

PLATE=2274 MJD=53726 Scattered Light on sdR-b1-00035679.fit
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 5.400
Max value = 9.252
Sat Feb 16 18:31:21 2008

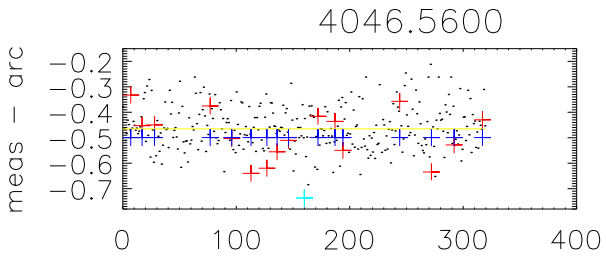

PLATE=2274 MJD=53726 Extraction chi^2 for sdR−b1−00035679.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

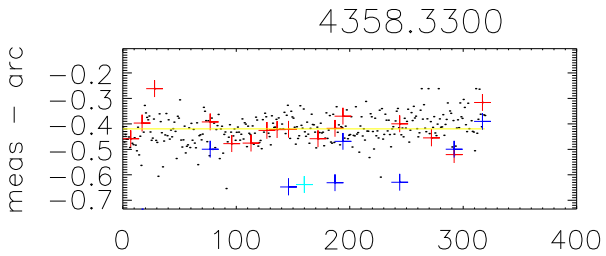

4358.3300
off: −0.72
sig: 0.038
5460.9400
off: −0.47
sig: 0.023
5577.3390
off: −0.54
sig: 0.004
5889.9500
off: −0.48
sig: 0.009
5895.9240
off: −0.48
sig: 0.012

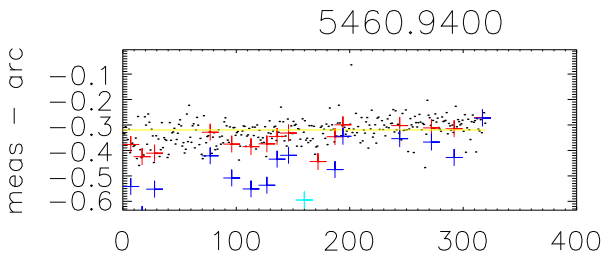

shift(pix)=−0.737
err(pix)= 0.050
oldshift(pix)= 0.000
400
300
200
100
0
4020
4030
4040
4050
4060
4070
4080

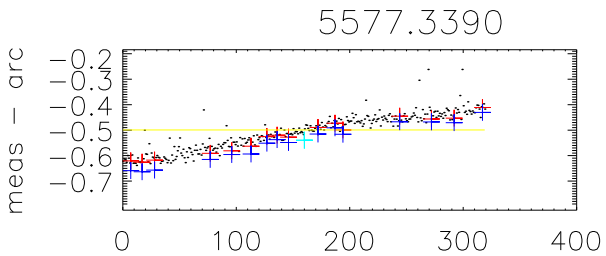

shift(pix)=−0.638
err(pix)= 0.023
oldshift(pix)=−0.716
400
300
200
100
0
4280
4300
4320
4340
4360
4380
4400
4420

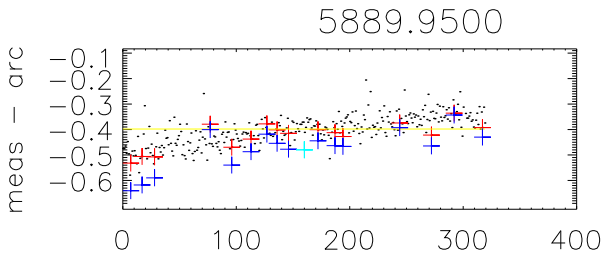

shift(pix)=−0.595
err(pix)= 0.027
oldshift(pix)=−0.466
400
300
200
100
0
5430
5440
5450
5460
5470
5480
5490

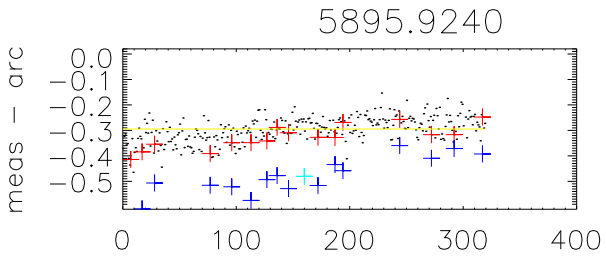

4046.5600
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

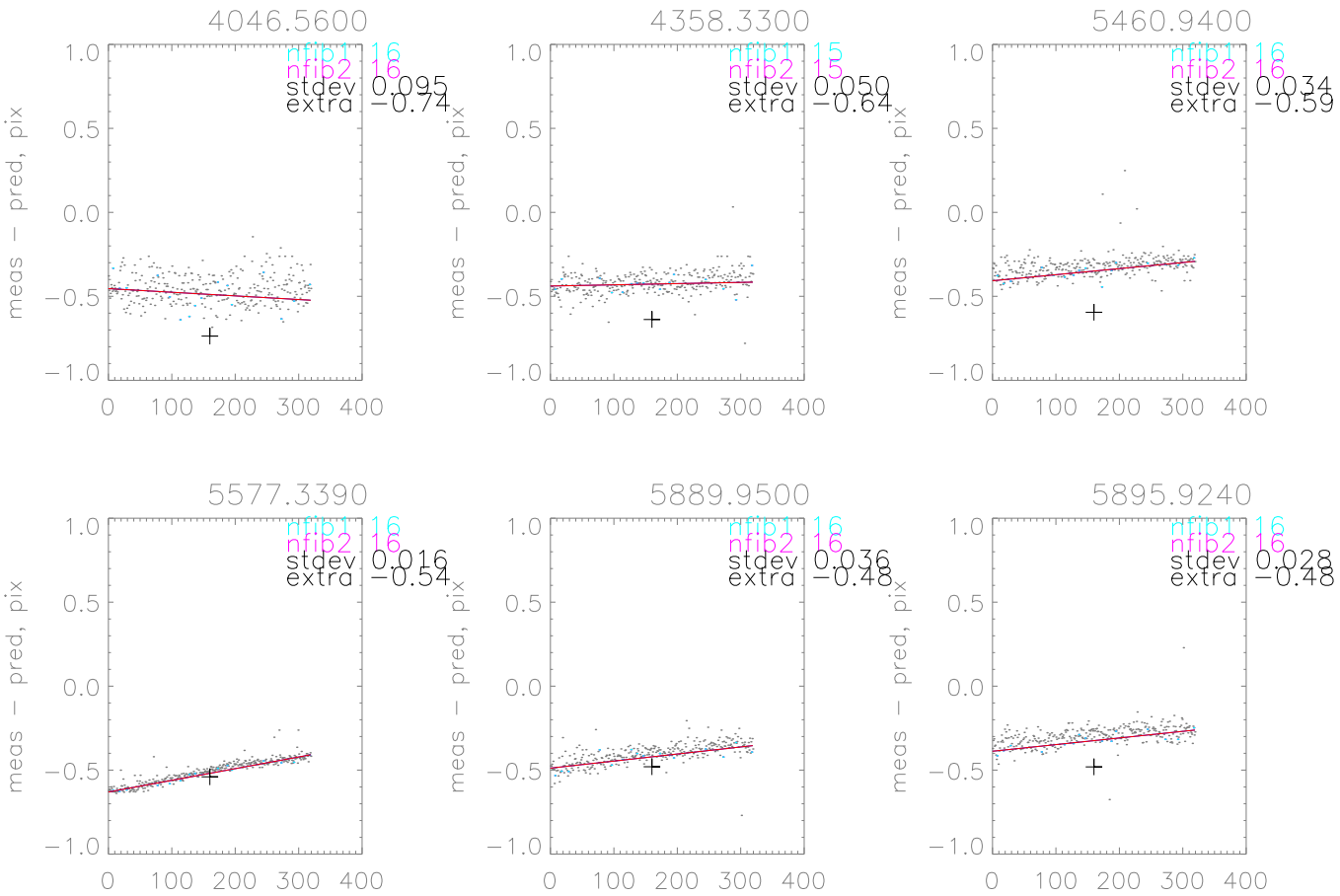

4358.3300
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

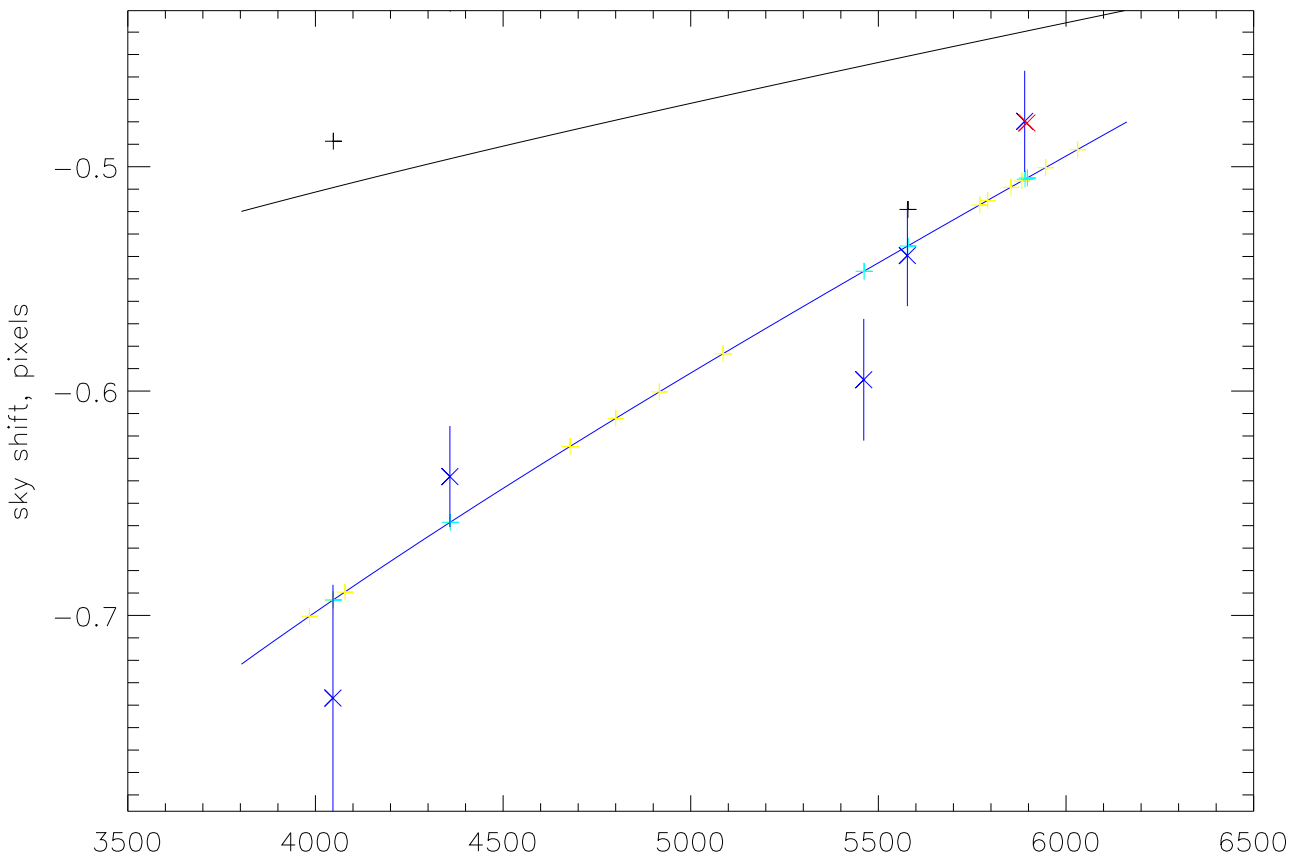

5460.9400
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

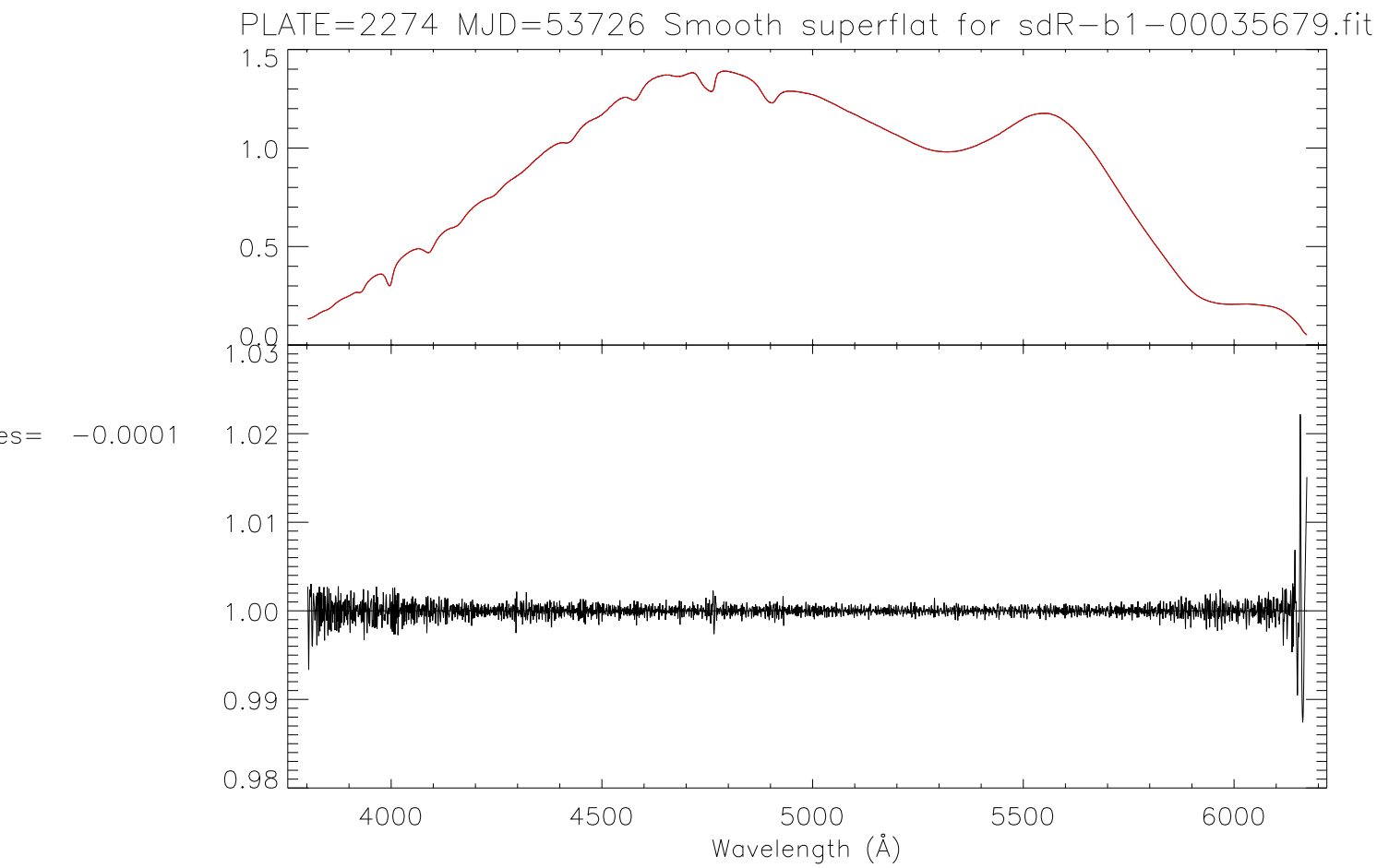

5577.3390
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400


5889.9500
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

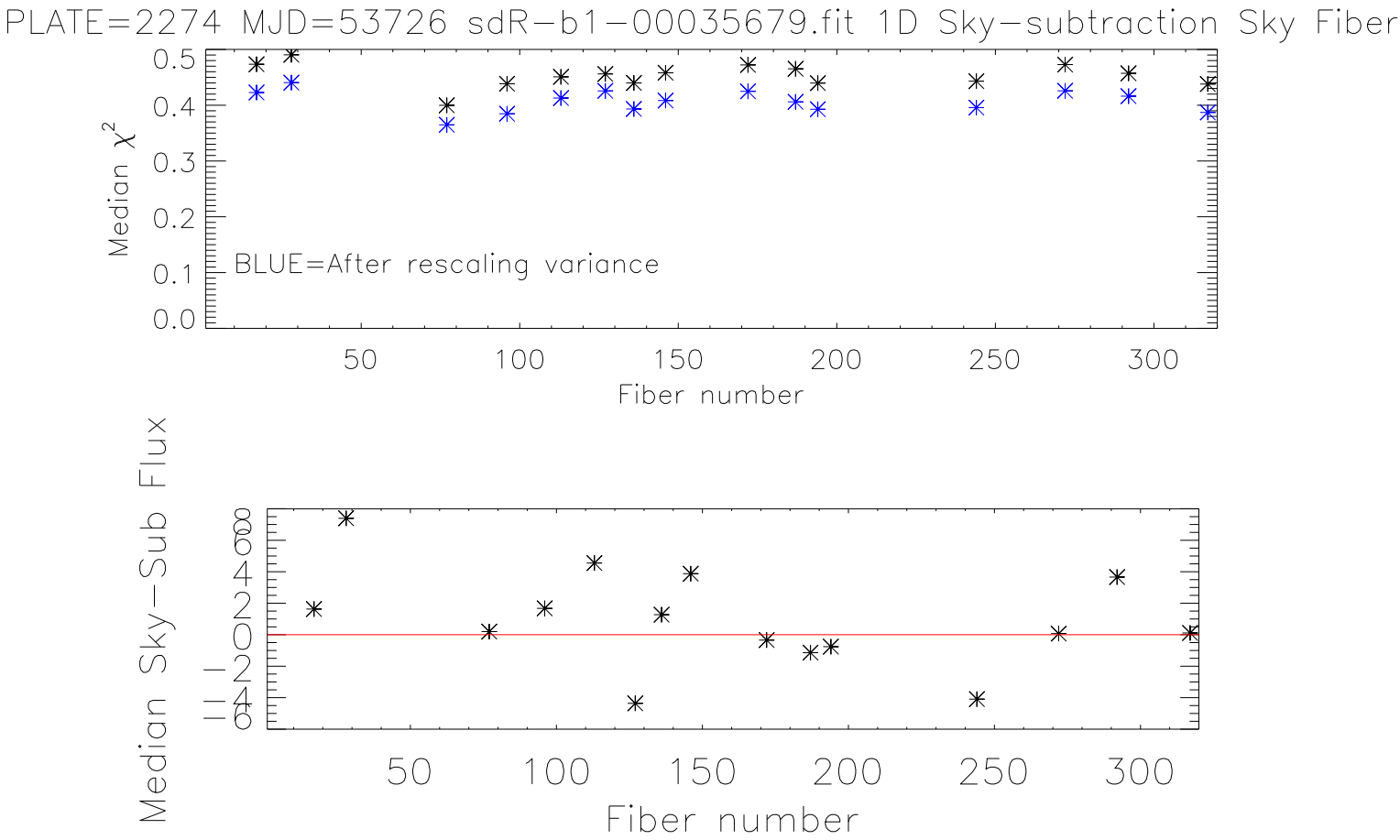

5895.9240
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

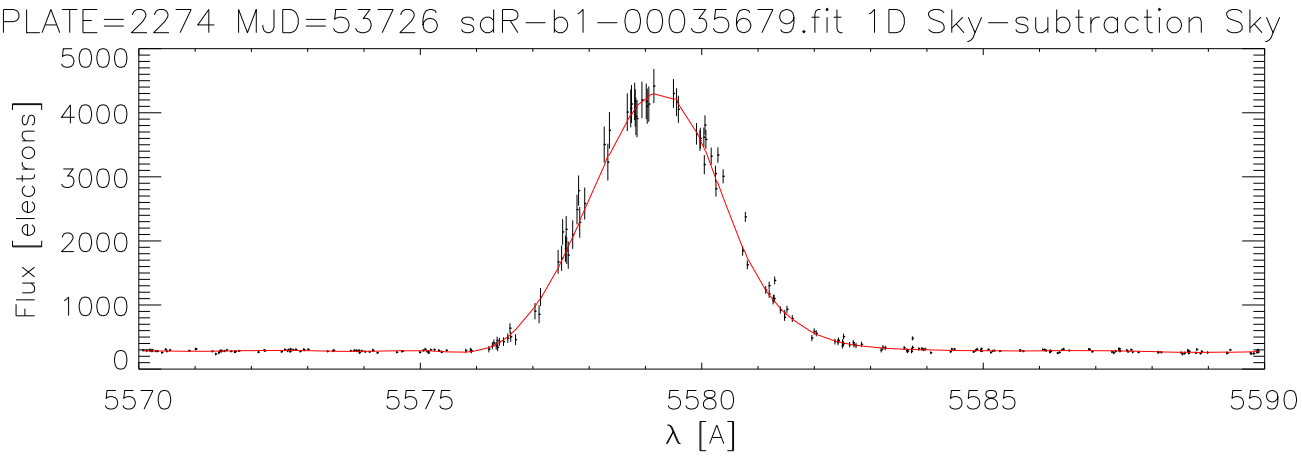

4046.5600
nfib1 16
nfib2 16
stdev 0.095
extra −0.74
4358.3300
nfib1 15
nfib2 15
stdev 0.050
extra −0.64
5460.9400
nfib1 16
nfib2 16
stdev 0.034
extra −0.59
5577.3390
nfib1 16
nfib2 16
stdev 0.016
extra −0.54
5889.9500
nfib1 16
nfib2 16
stdev 0.036
extra −0.48
5895.9240
nfib1 16
nfib2 16
stdev 0.028
extra −0.48
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

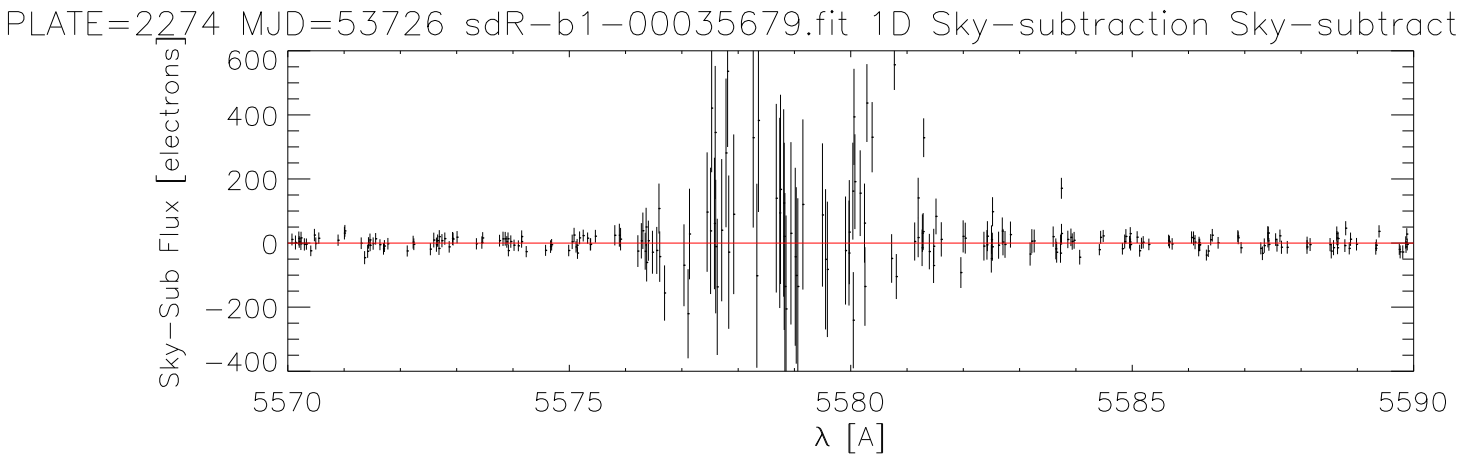

sky shift, pixels
−0.5
−0.6
−0.7
3500
4000
4500
5000
5500
6000
6500

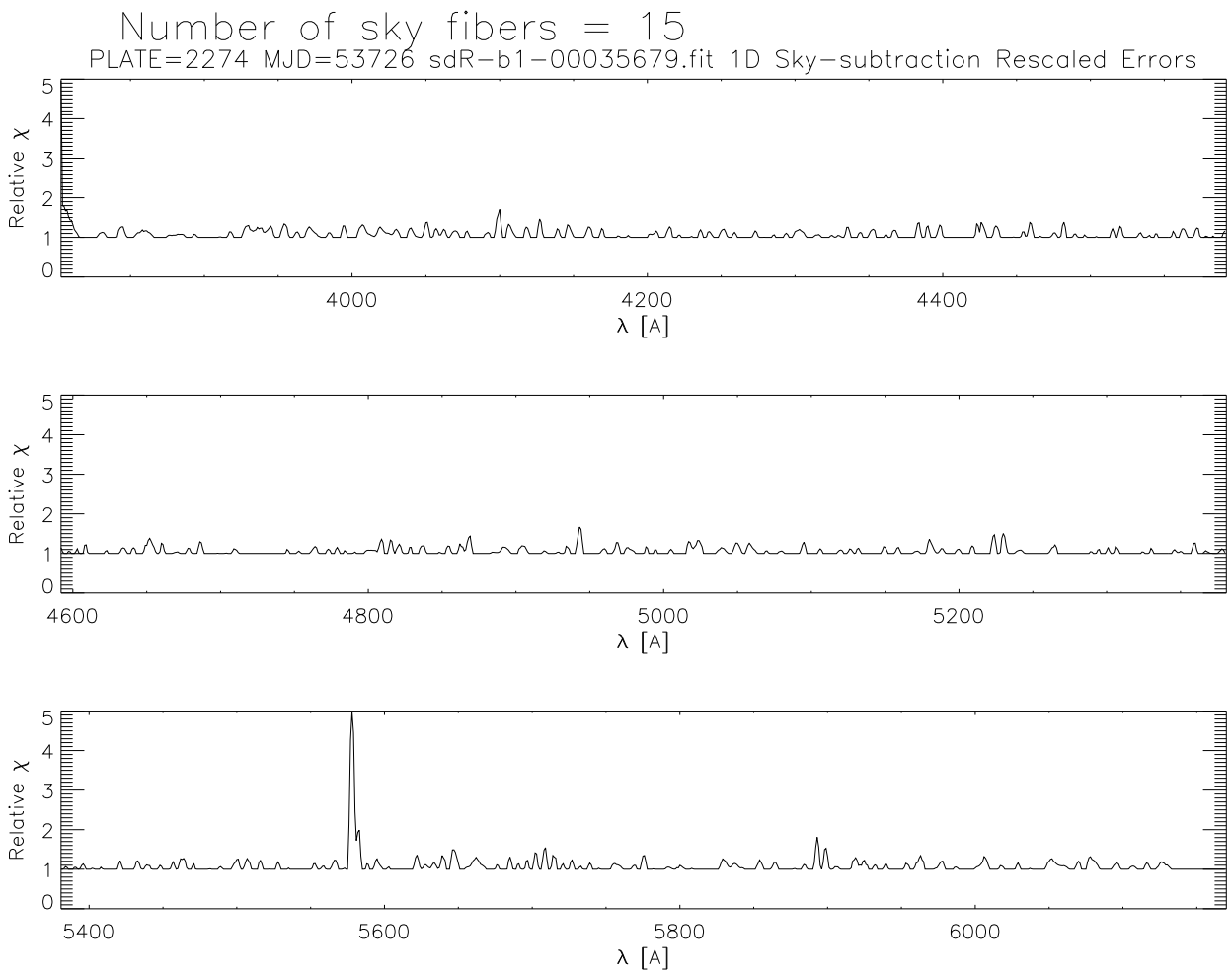

PLATE=2274 MJD=53726 Smooth superflat for sdR-b1-00035679.fit
1.5
1.0
0.5
0.0
1.03
1.02
1.01
1.00
0.99
0.98
4000
4500
5000
5500
6000
Wavelength (Å)

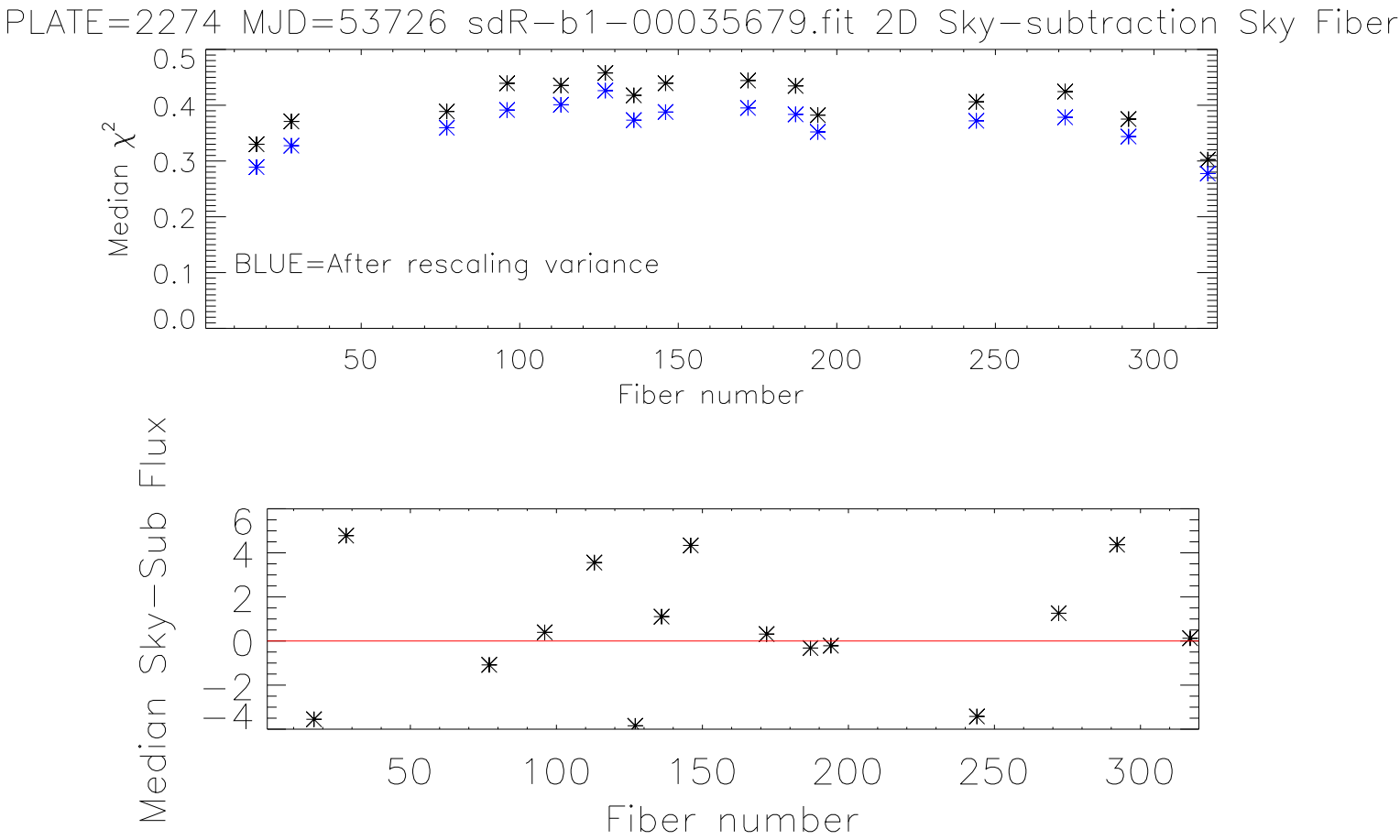
es= −0.0001

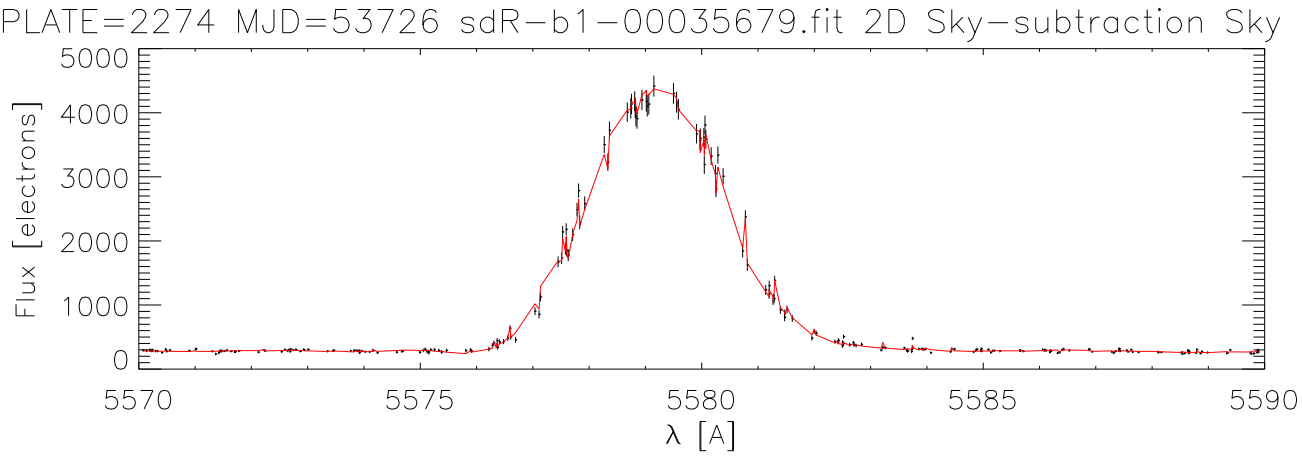

PLATE=2274 MJD=53726 sdR-b1-00035679.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-11
-6
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

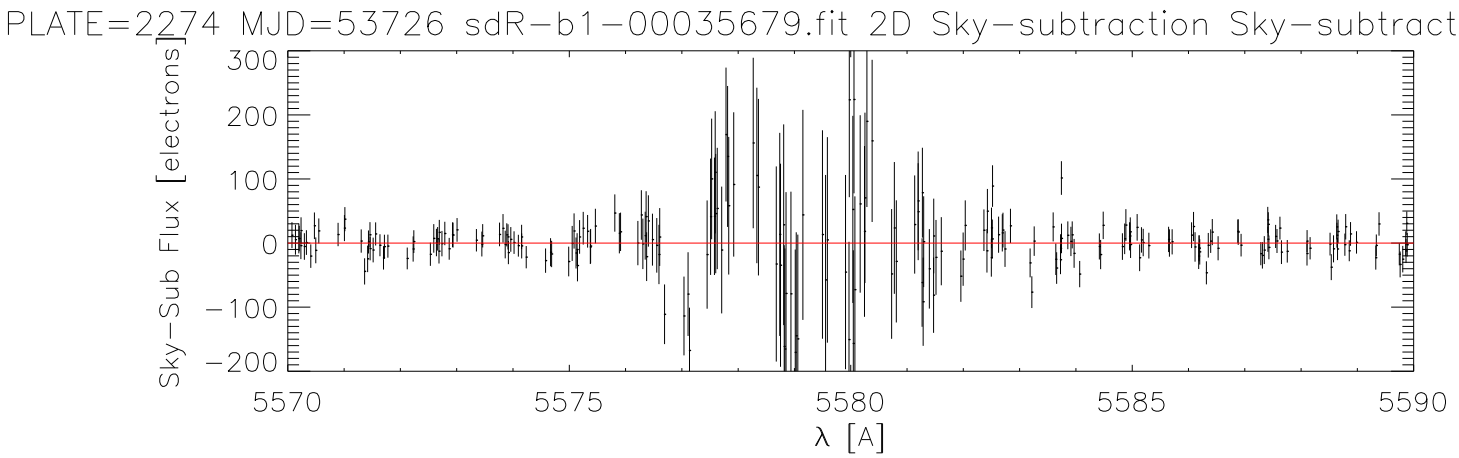

PLATE=2274 MJD=53726 sdR-b1-00035679.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

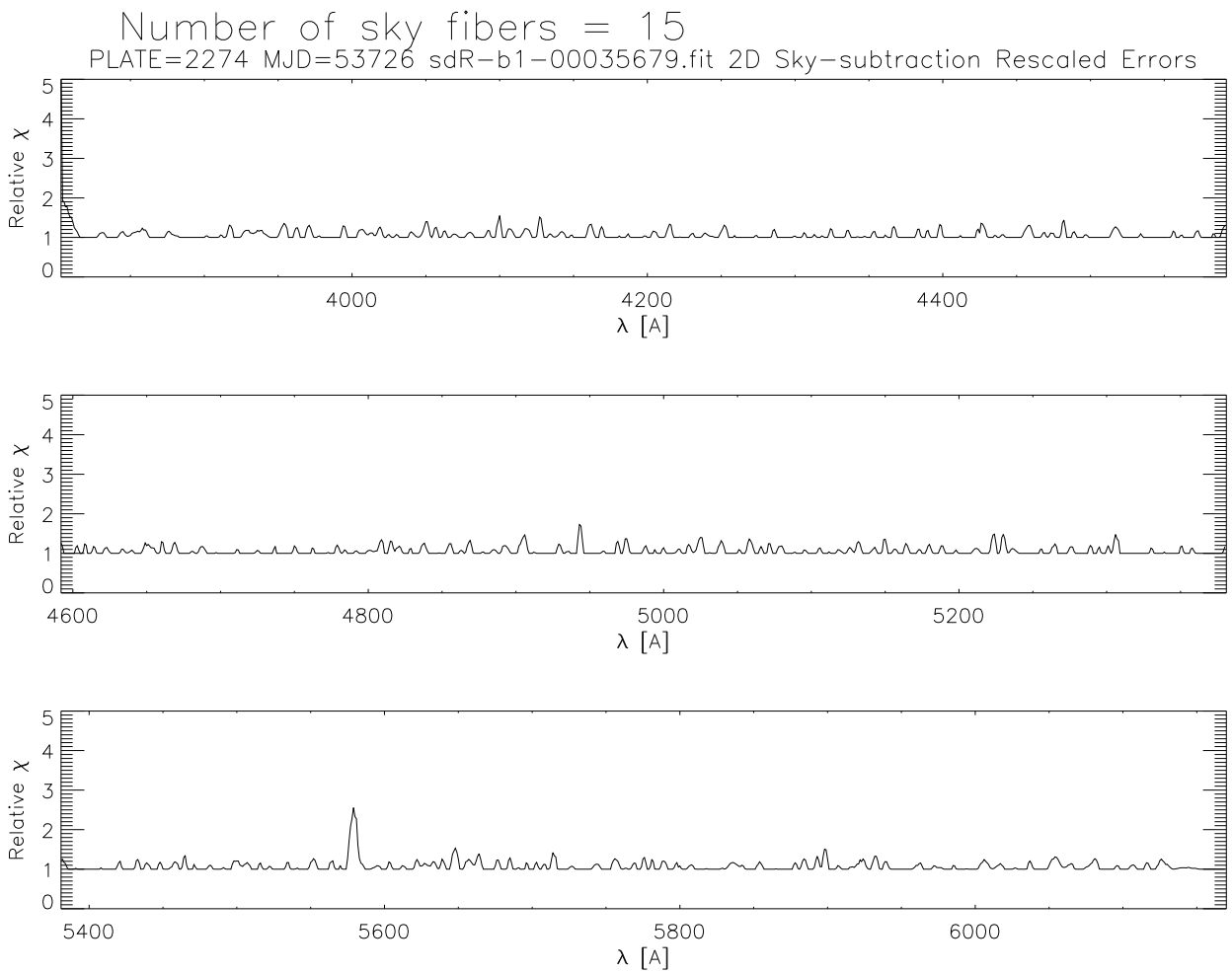

PLATE=2274 MJD=53726 sdR-b1-00035679.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

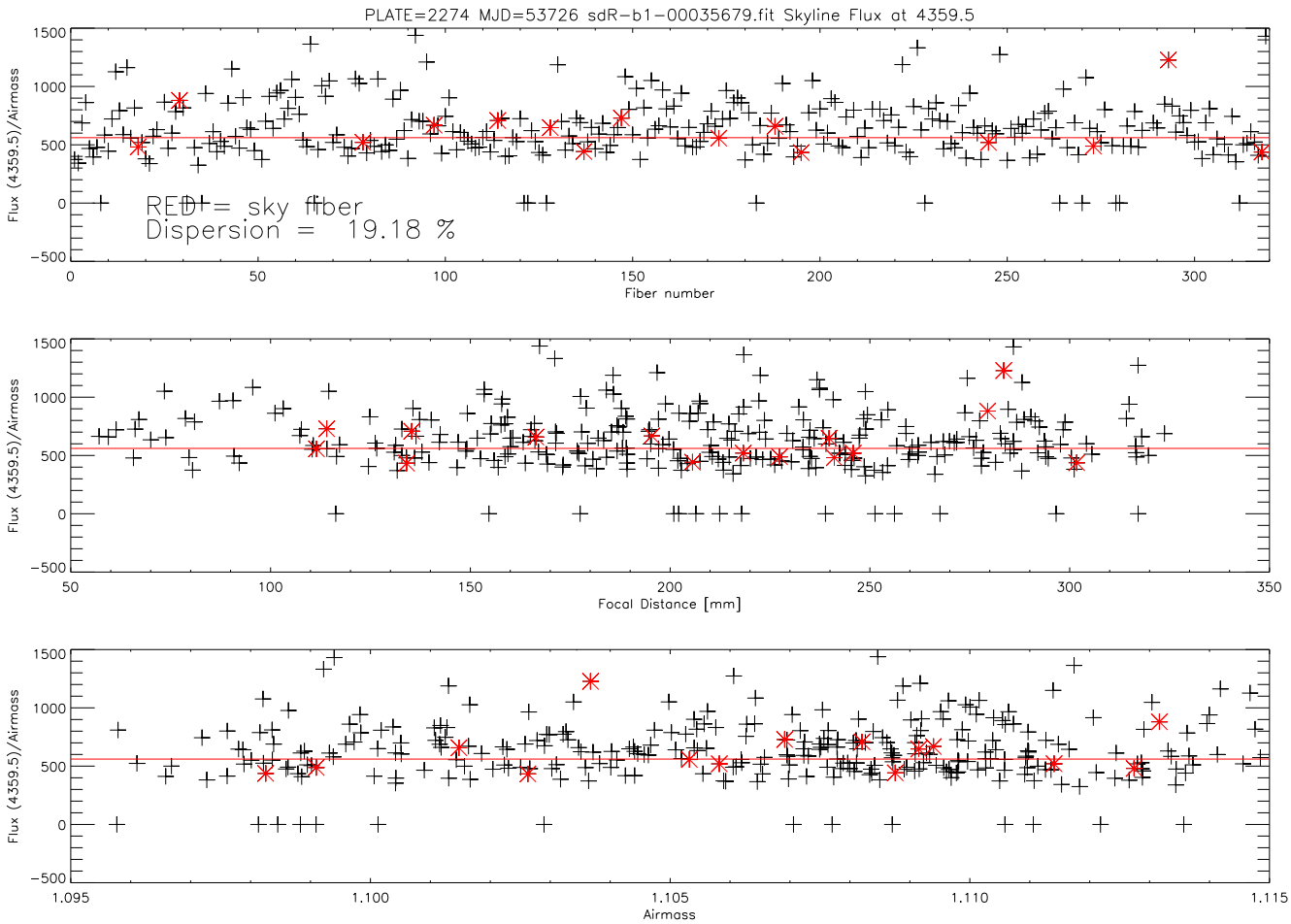

Number of sky fibers = 15
PLATE=2274 MJD=53726 sdR-b1-00035679.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

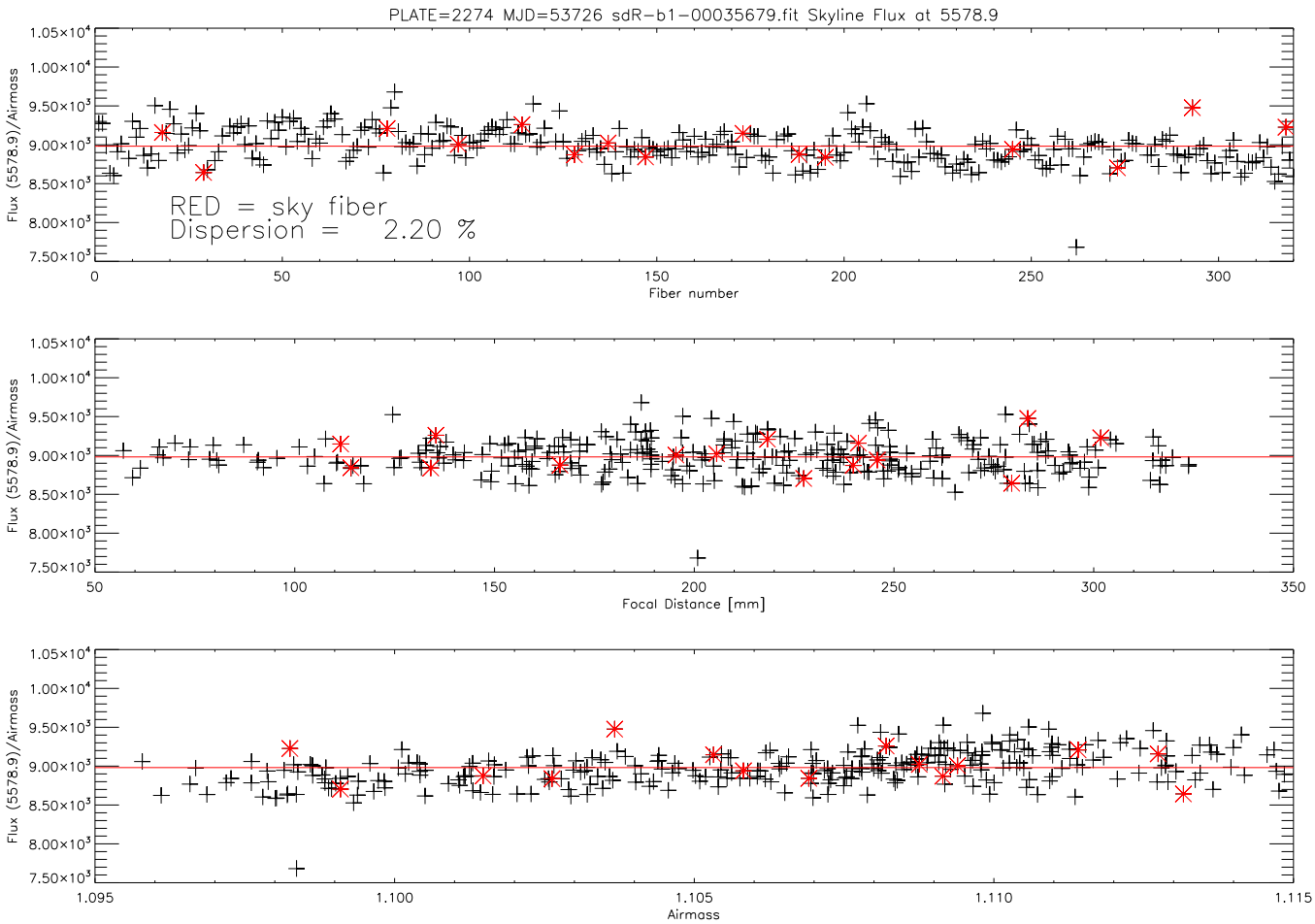

PLATE=2274 MJD=53726 sdR-b1-00035679.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

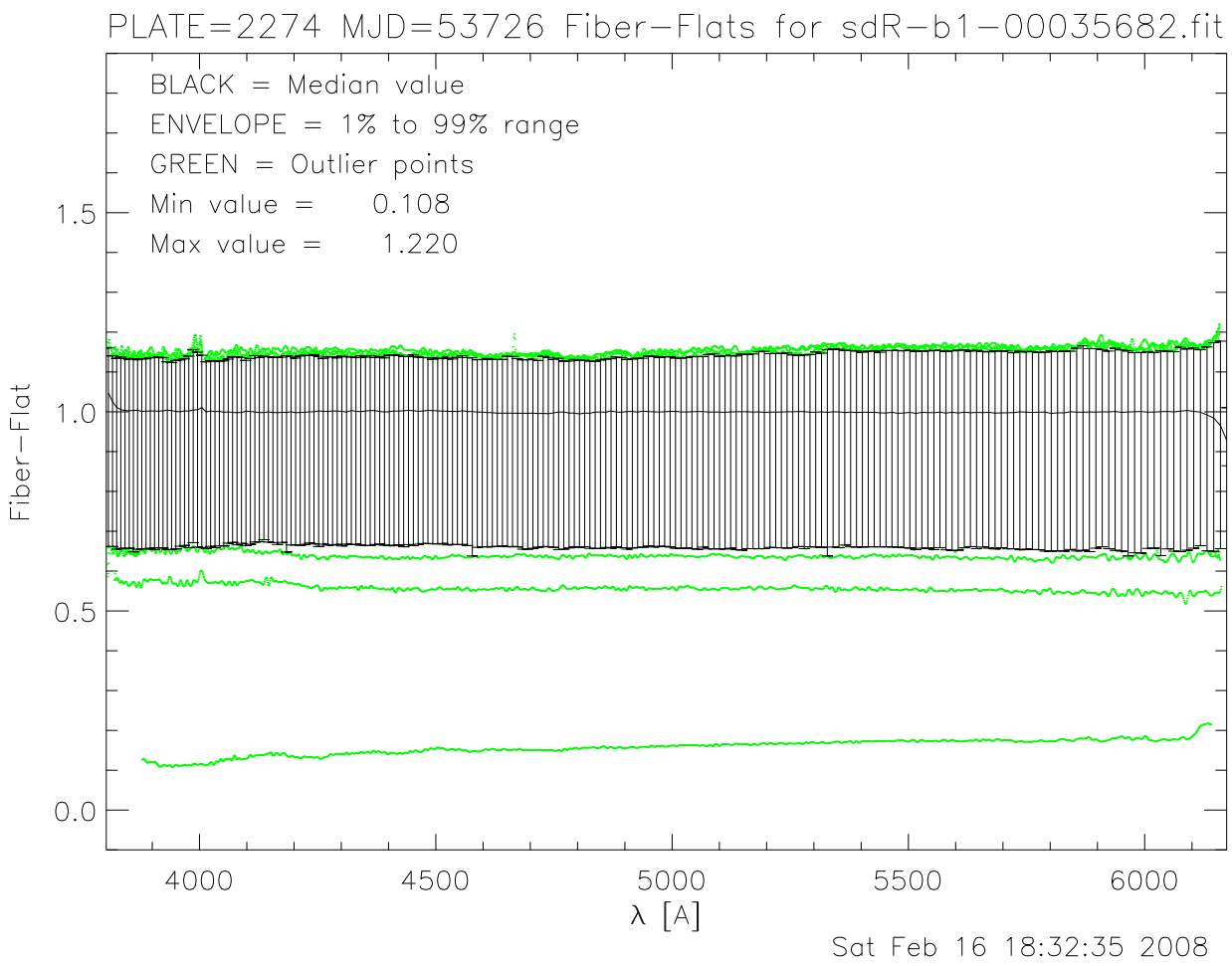

PLATE=2274 MJD=53726 sdR-b1-00035679.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

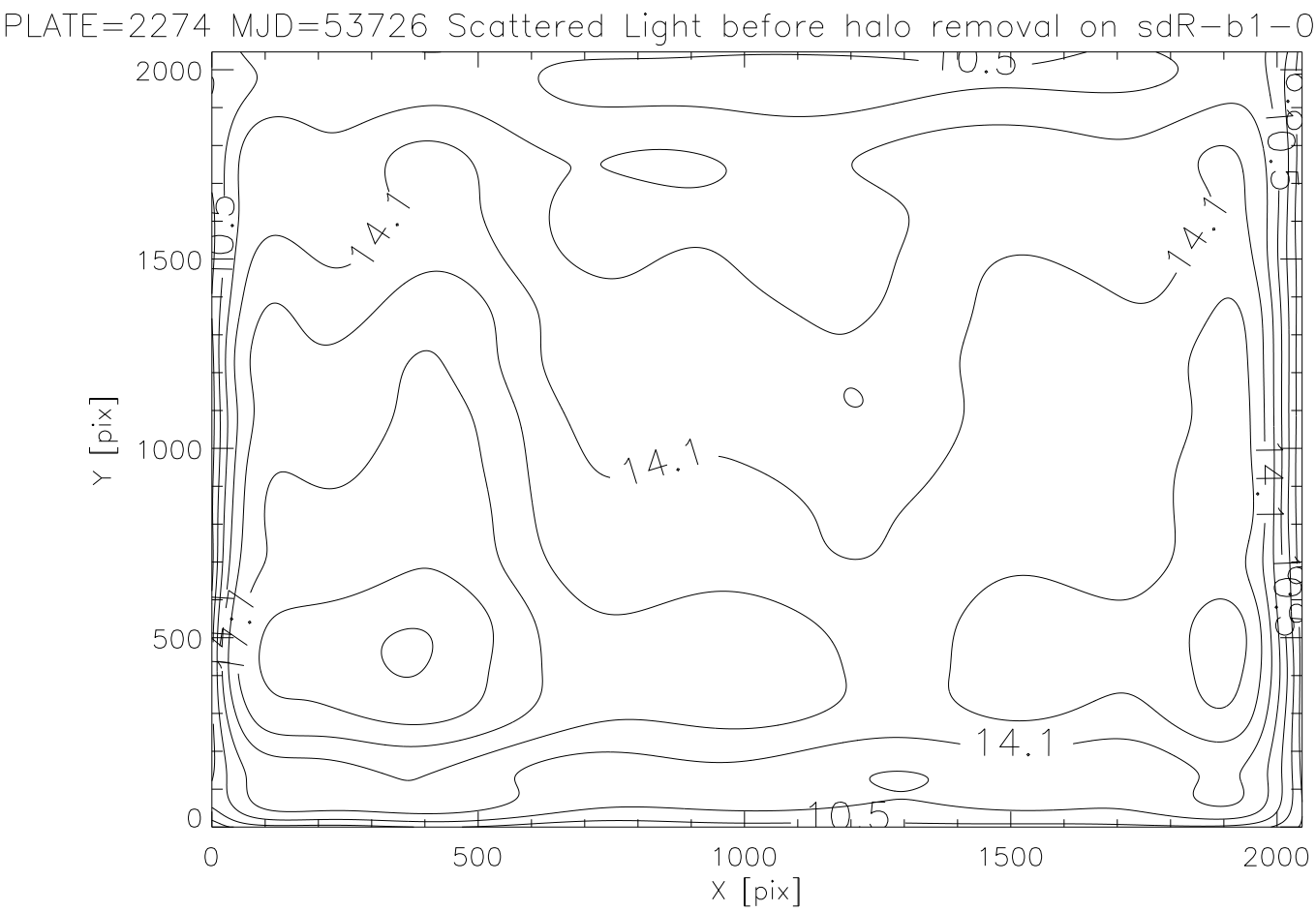

PLATE=2274 MJD=53726 sdR-b1-00035679.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

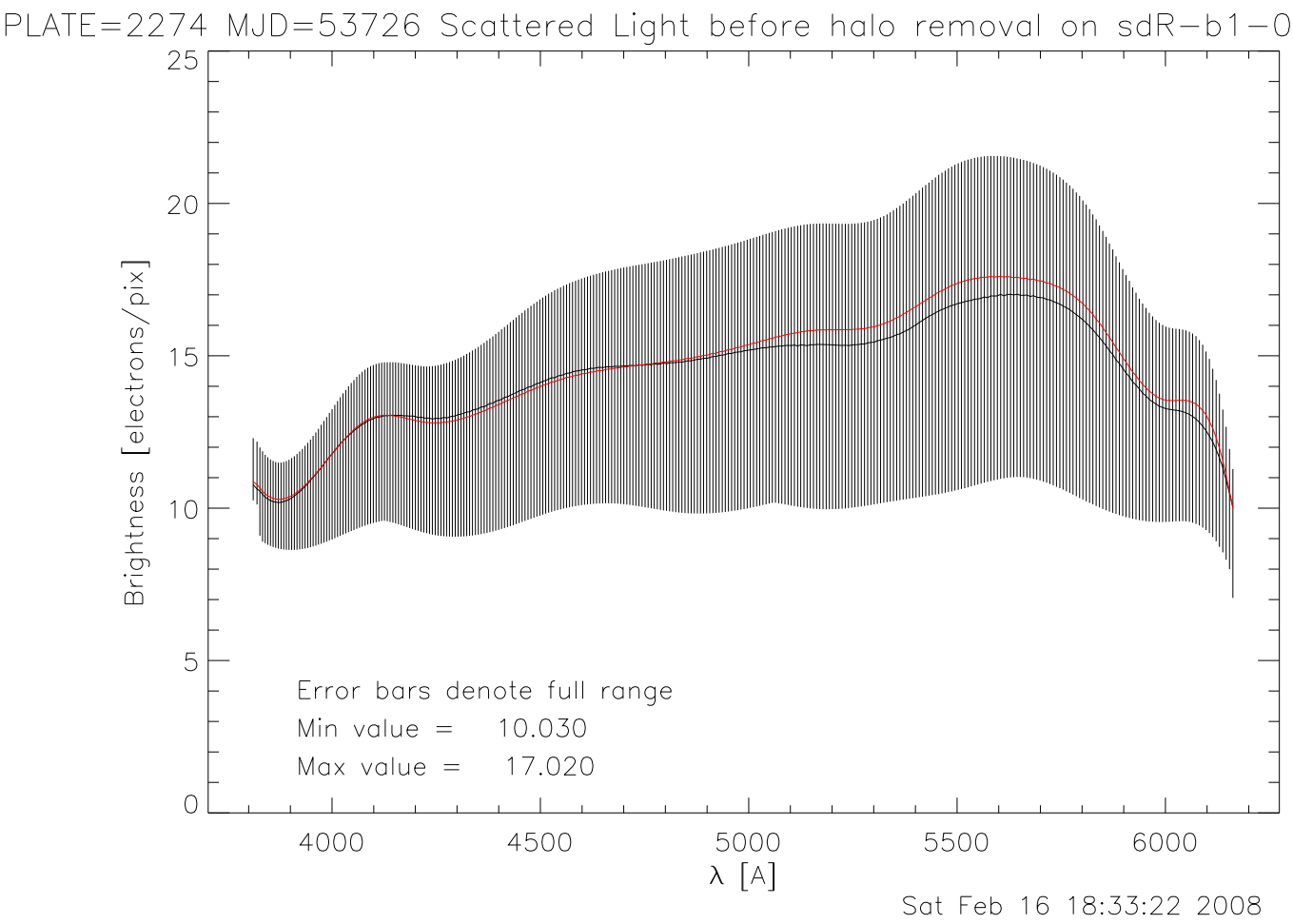

Number of sky fibers = 15
PLATE=2274 MJD=53726 sdR-b1-00035679.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

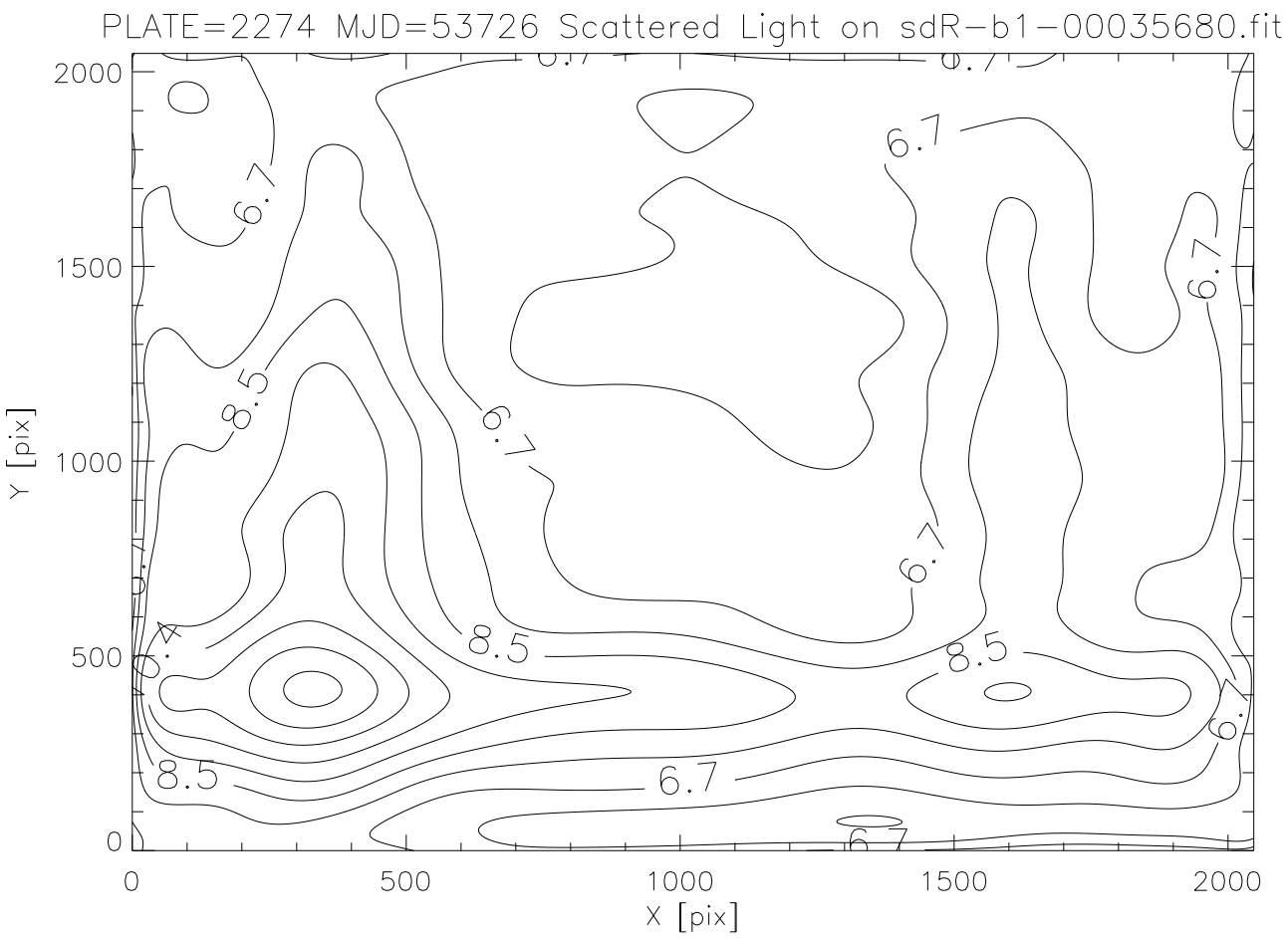

PLATE=2274 MJD=53726 sdR-b1-00035679.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED= sky fiber
Dispersion = 19.18 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

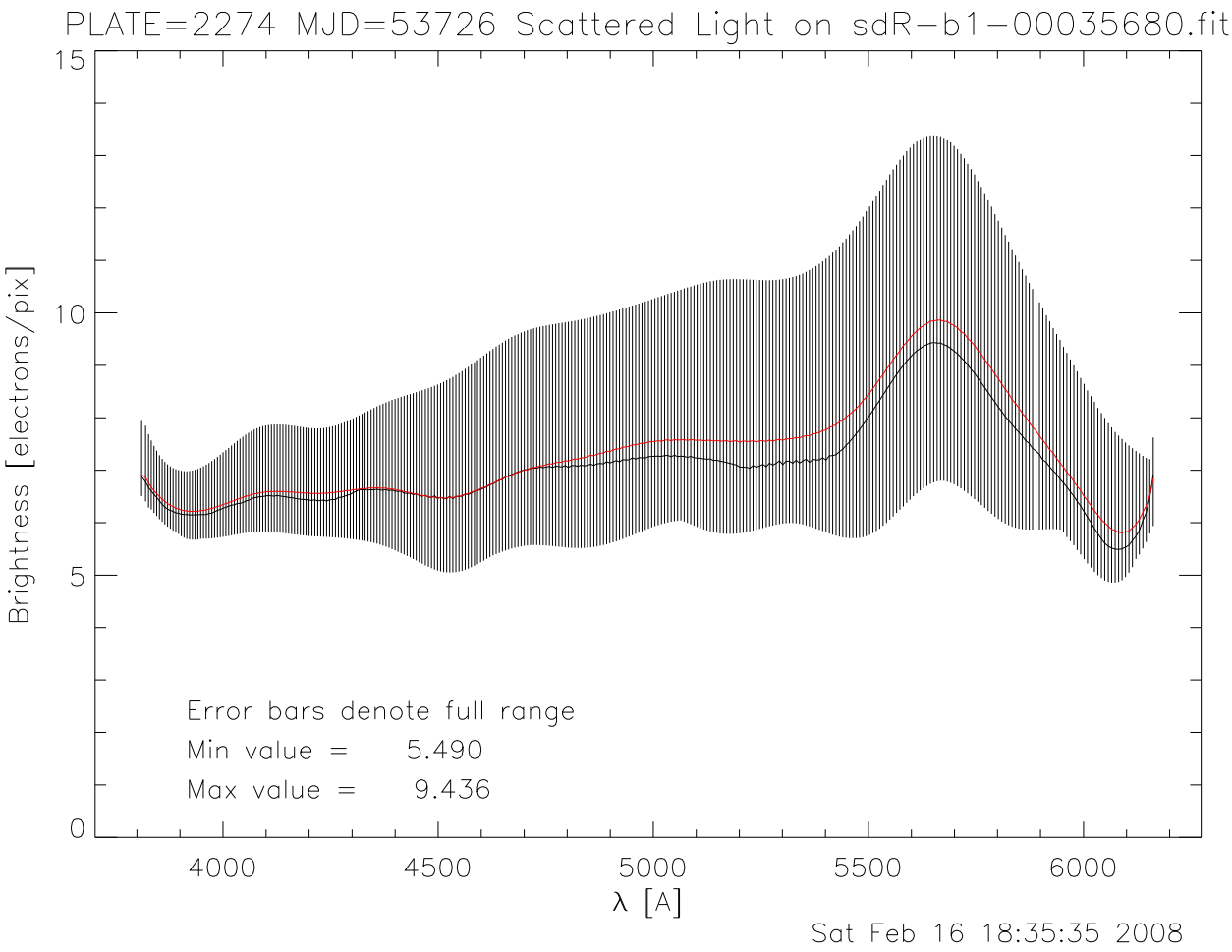

PLATE=2274 MJD=53726 sdR-b1-00035679.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.20 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

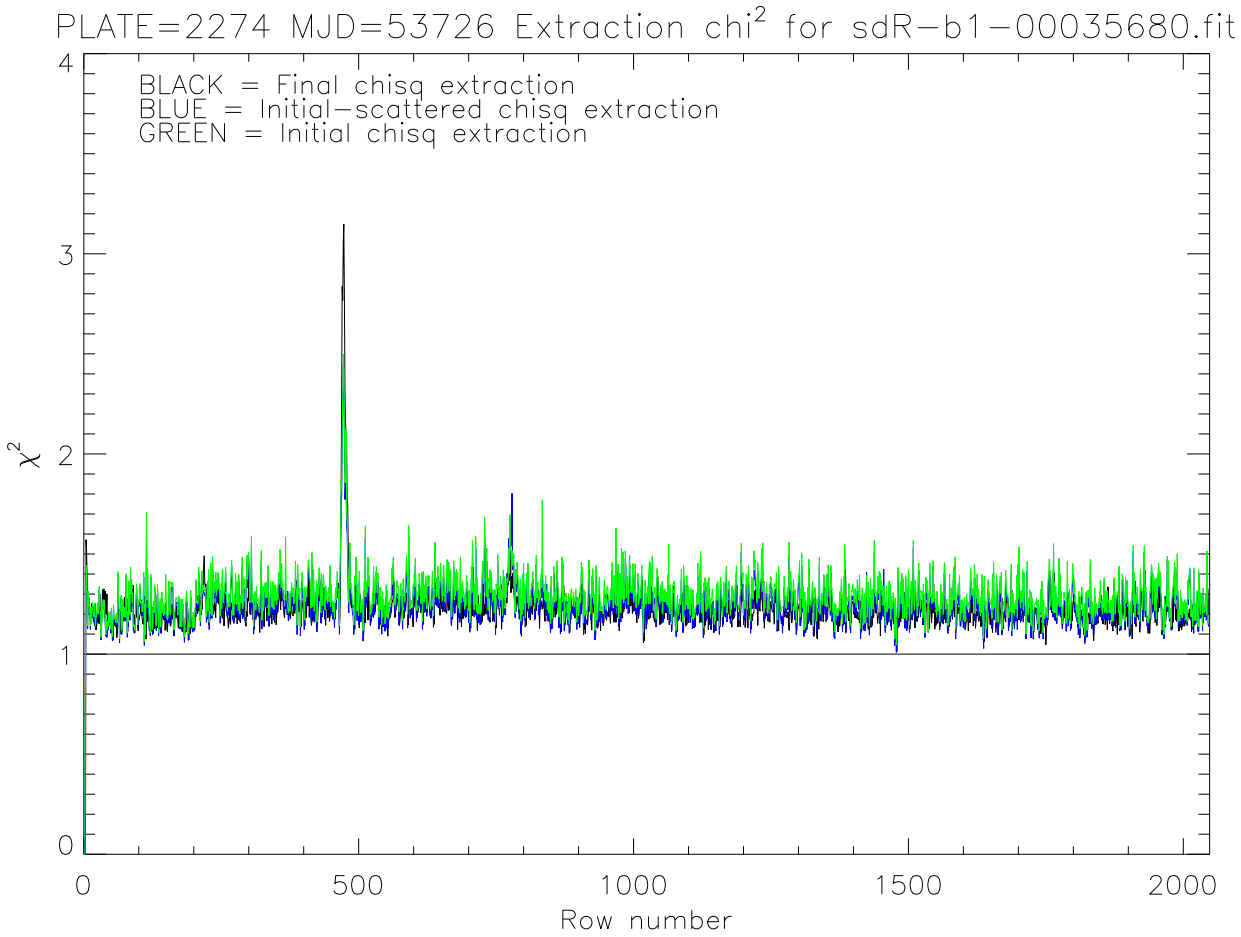

PLATE=2274 MJD=53726 Fiber-Flats for sdR-b1-00035682.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.108
Max value = 1.220
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 18:32:35 2008

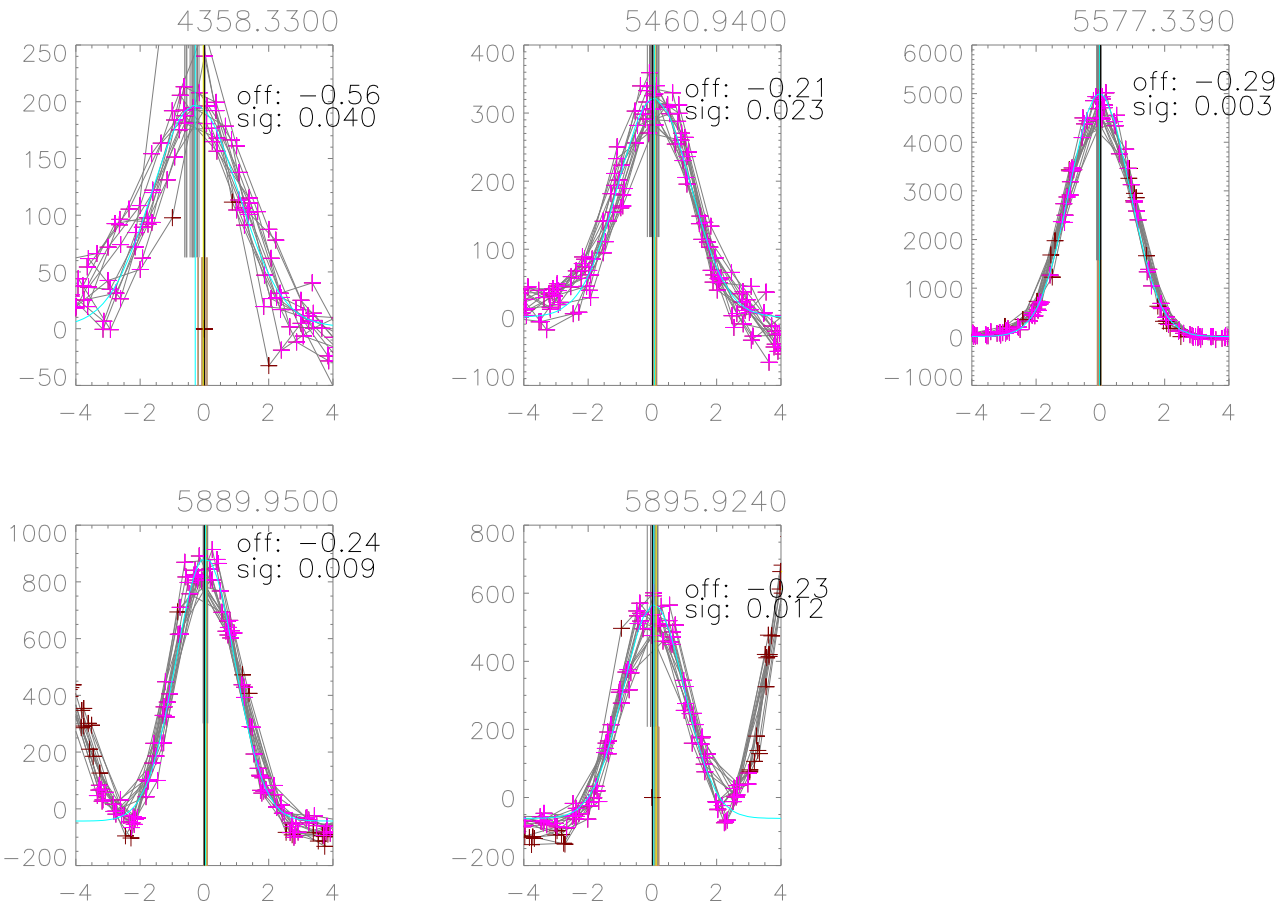

PLATE=2274 MJD=53726 Scattered Light before halo removal on sdR−b1−00035680.f
10.5
14.1
0
Y [pix]
X [pix]
0
500
1000
1500
2000

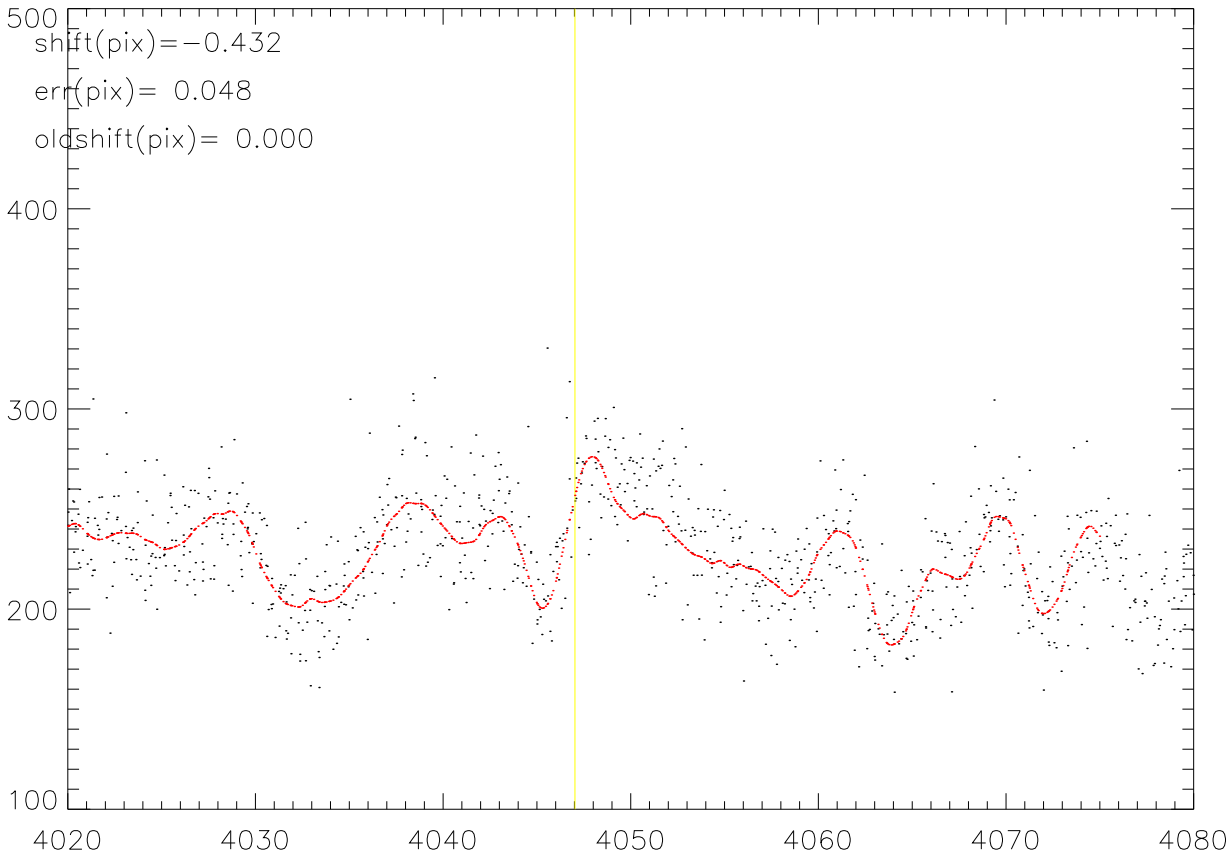

PLATE=2274 MJD=53726 Scattered Light before halo removal on sdR-b1-00035680.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 10.030
Max value = 17.020
Sat Feb 16 18:33:22 2008

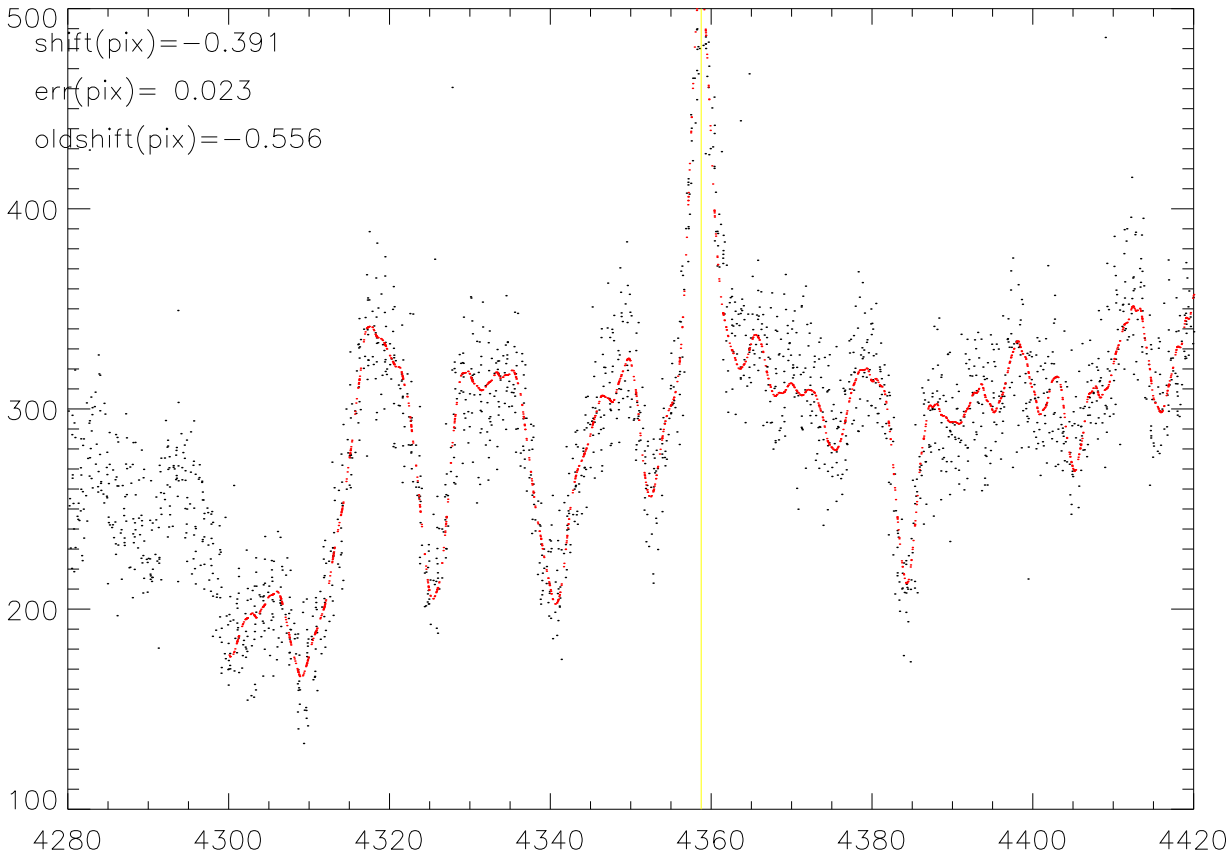

PLATE=2274 MJD=53726 Scattered Light on sdR-b1-00035680.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
6.7
8.5

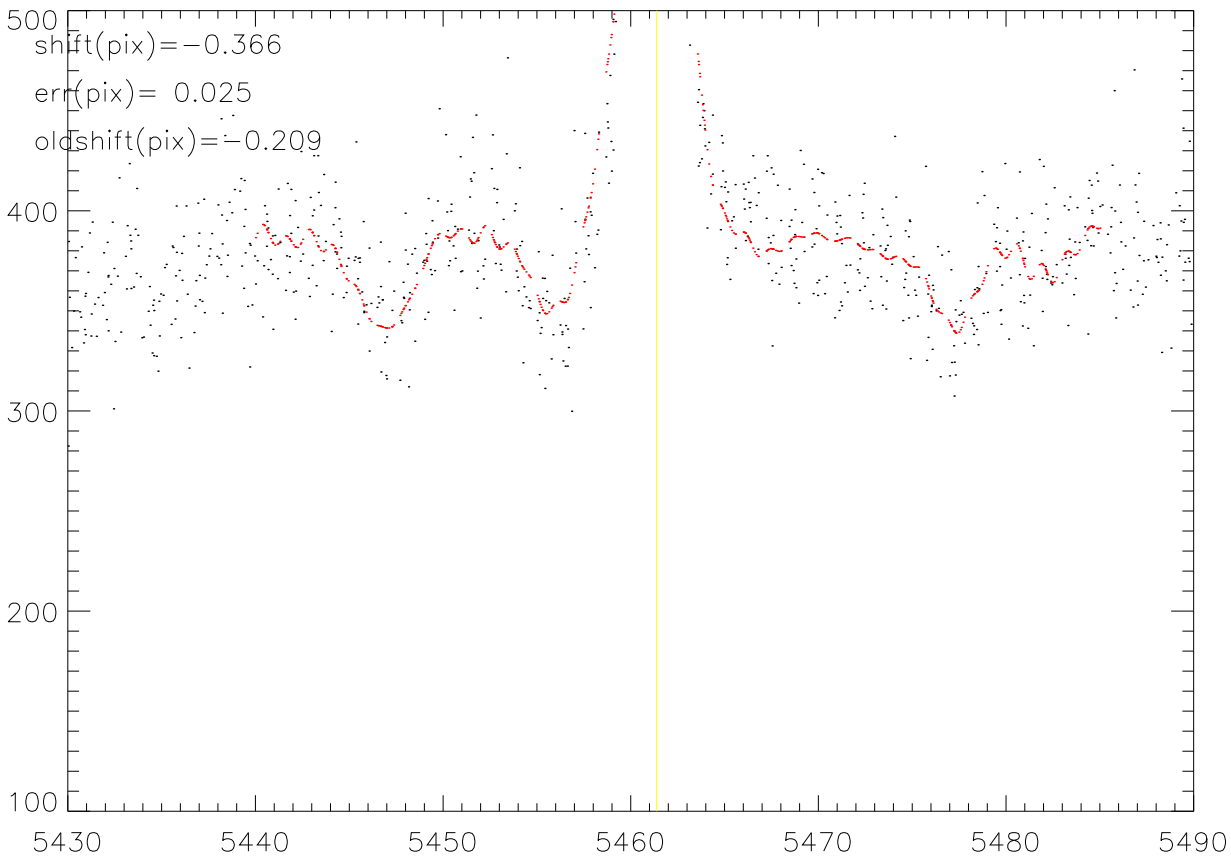

PLATE=2274 MJD=53726 Scattered Light on sdR-b1-00035680.fit
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 5.490
Max value = 9.436
Sat Feb 16 18:35:35 2008

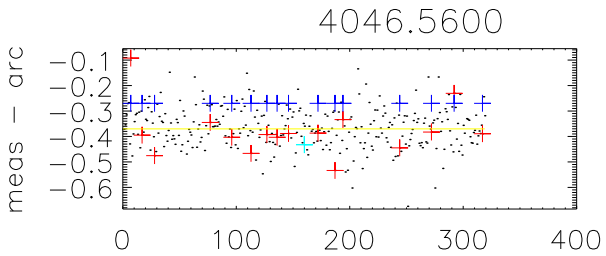

PLATE=2274 MJD=53726 Extraction chi^2 for sdR-b1-00035680.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

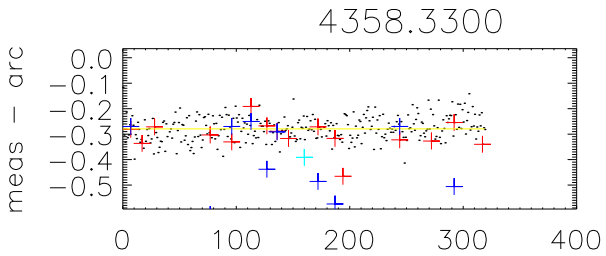

4358.3300
off: −0.56
sig: 0.040
5460.9400
off: −0.21
sig: 0.023
5577.3390
off: −0.29
sig: 0.003
5889.9500
off: −0.24
sig: 0.009
5895.9240
off: −0.23
sig: 0.012

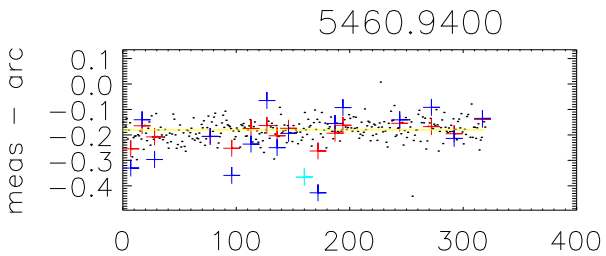

shift(pix)=−0.432
err(pix)= 0.048
oldshift(pix)= 0.000
500
400
300
200
100
4020
4030
4040
4050
4060
4070
4080

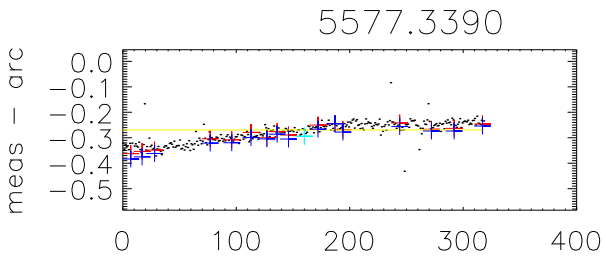

shift(pix)=−0.391
err(pix)= 0.023
oldshift(pix)=−0.556
500
400
300
200
100
4280
4300
4320
4340
4360
4380
4400
4420

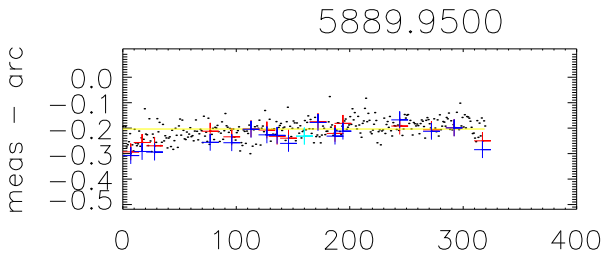

shift(pix)=−0.366
err(pix)= 0.025
oldshift(pix)=−0.209
500
400
300
200
100
5430
5440
5450
5460
5470
5480
5490

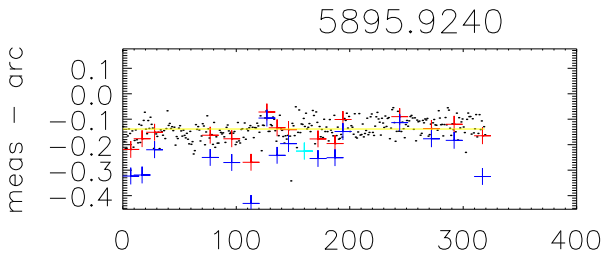

4046.5600
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

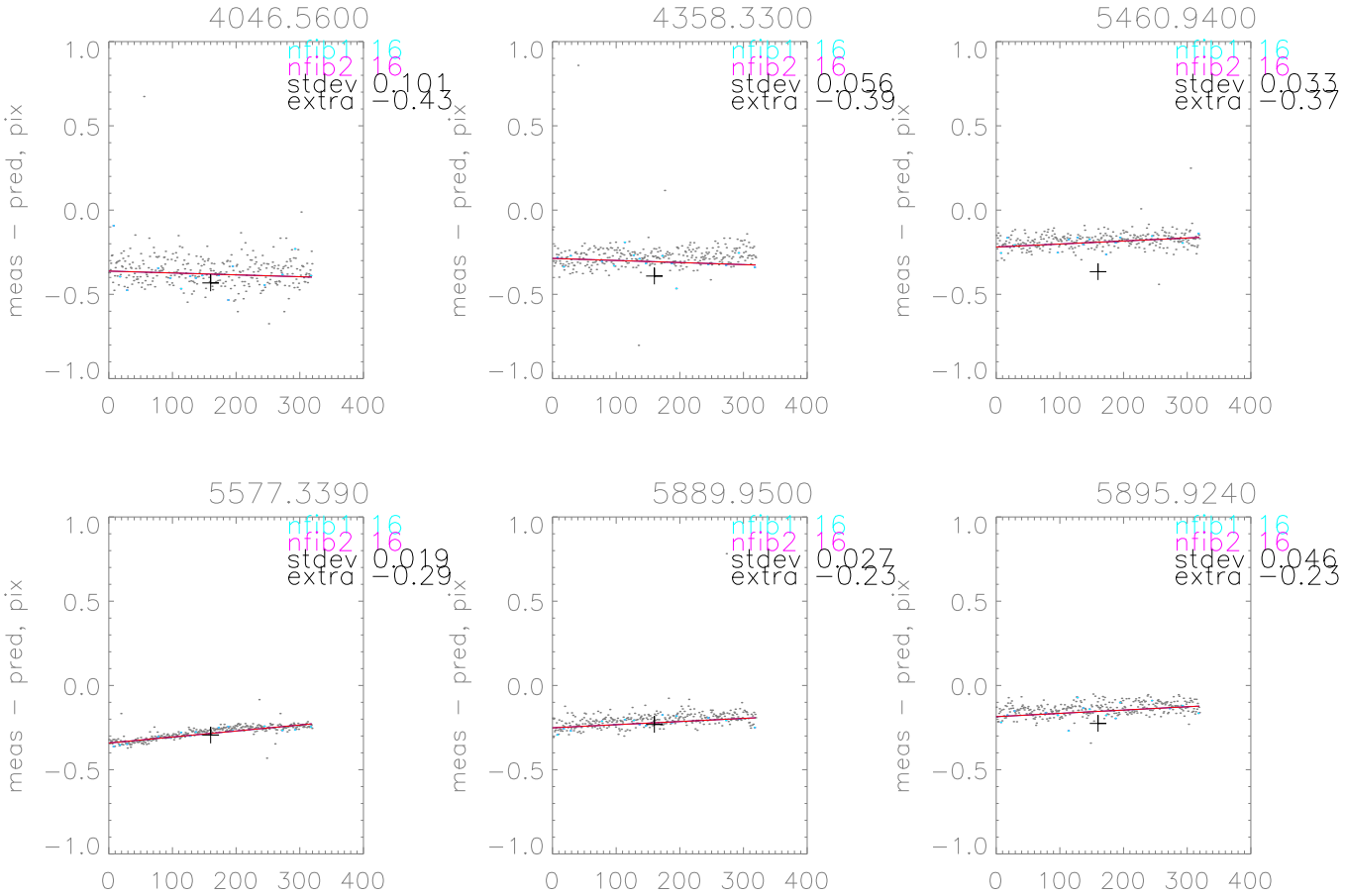

4358.3300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

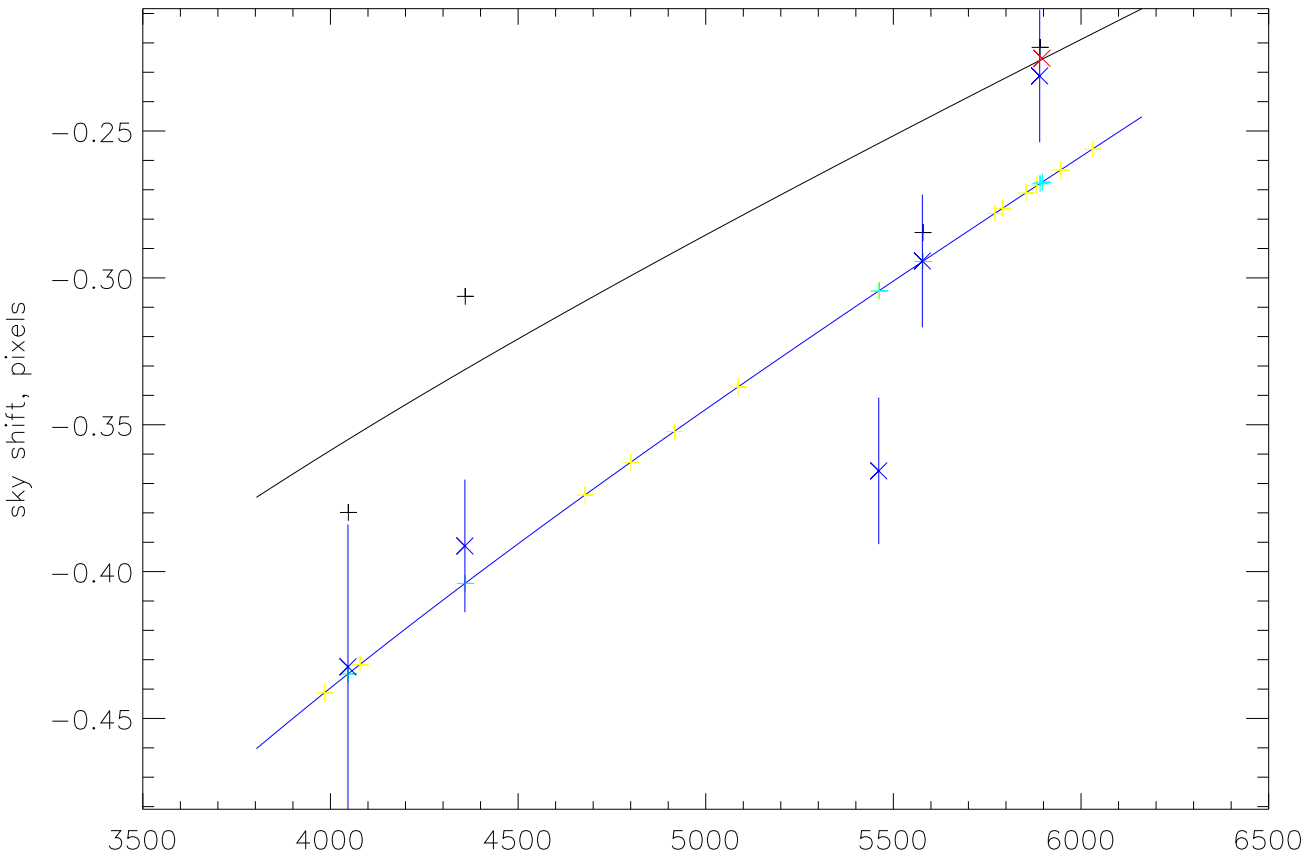

5460.9400
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

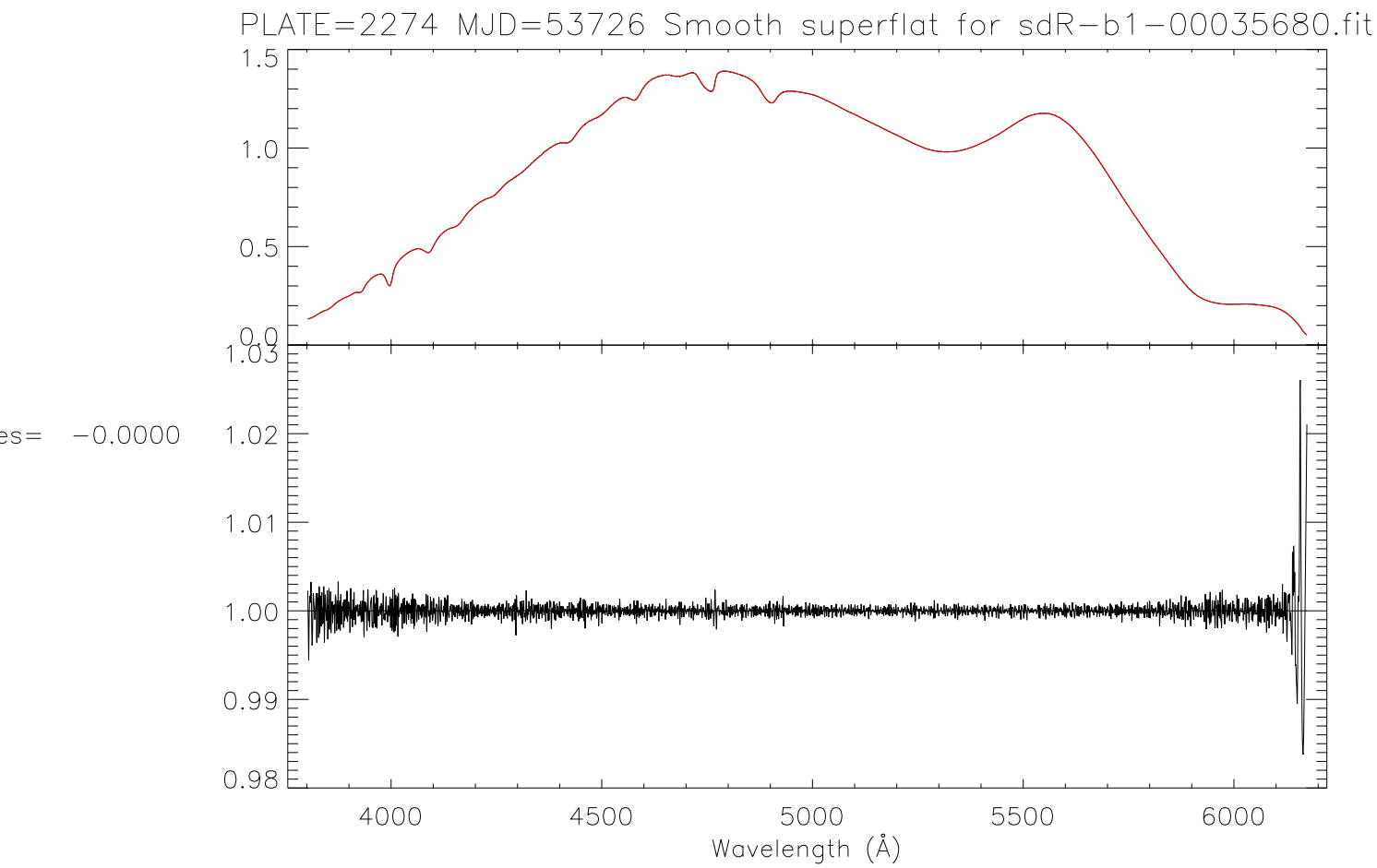

5577.3390
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400


5889.9500
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

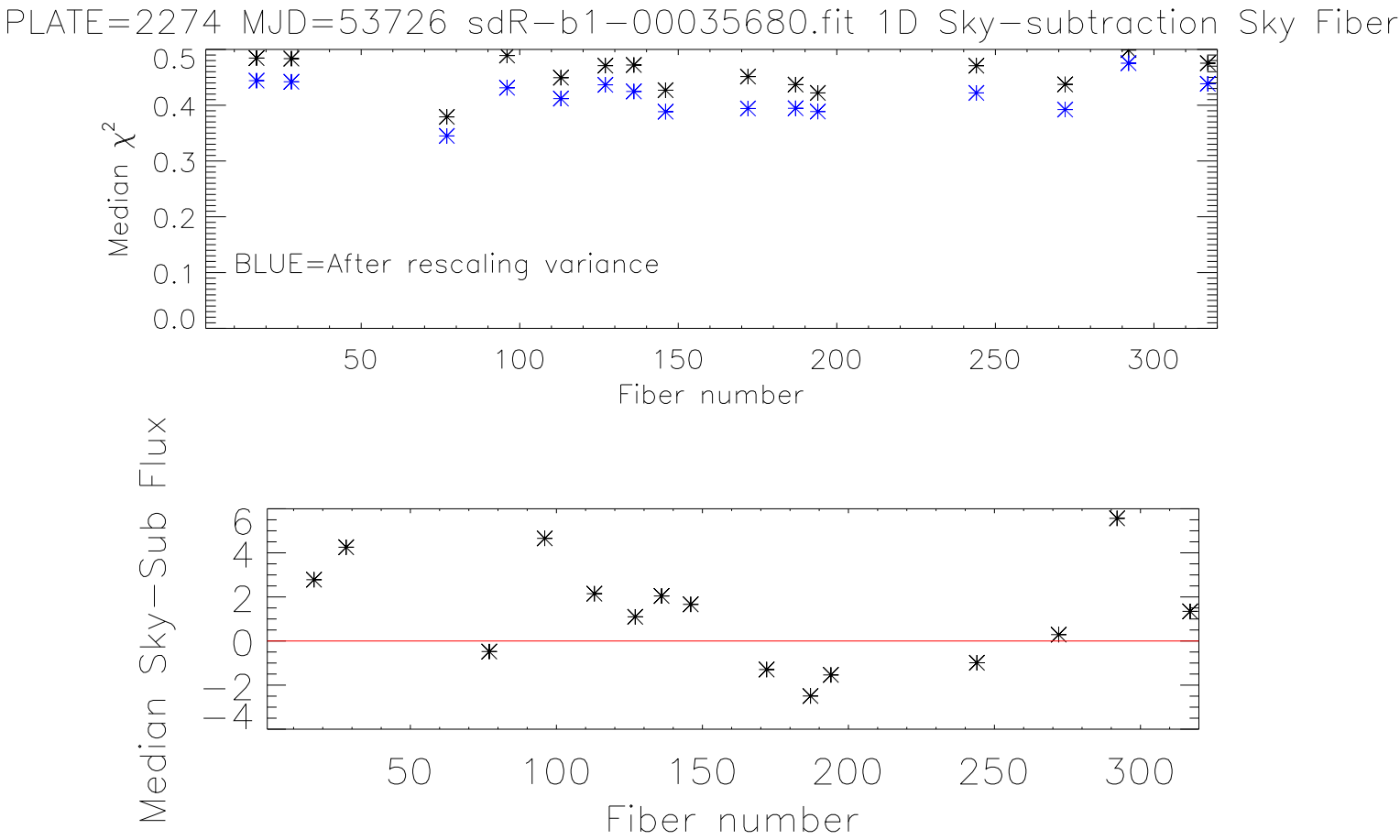

5895.9240
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

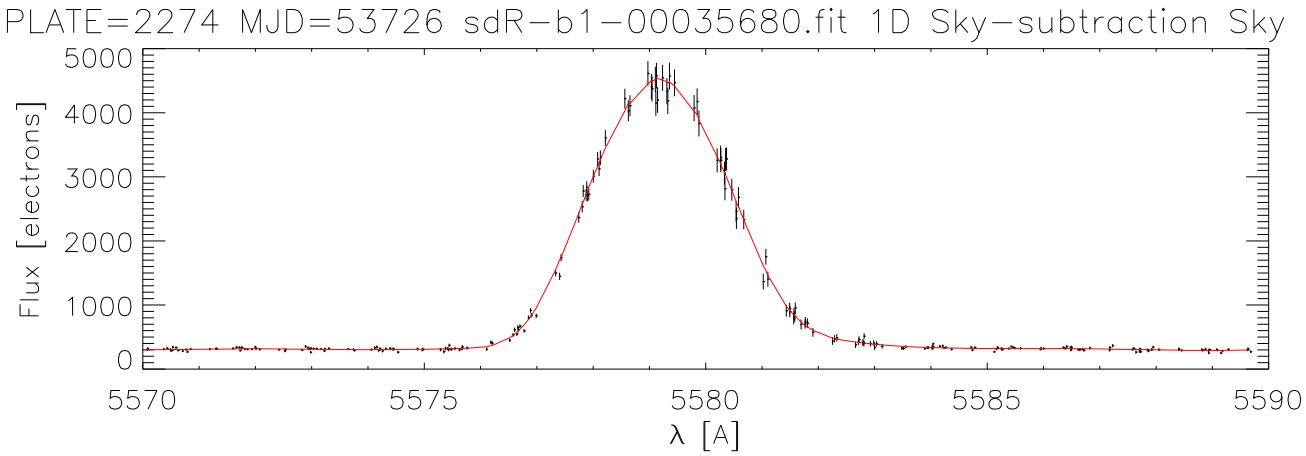

4046.5600
nfib1 16
nfib2 16
stdev 0.101
extra −0.43
4358.3300
nfib1 16
nfib2 16
stdev 0.056
extra −0.39
5460.9400
nfib1 16
nfib2 16
stdev 0.033
extra −0.37
5577.3390
nfib1 16
nfib2 16
stdev 0.019
extra −0.29
5889.9500
nfib1 16
nfib2 16
stdev 0.027
extra −0.23
5895.9240
nfib1 16
nfib2 16
stdev 0.046
extra −0.23
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

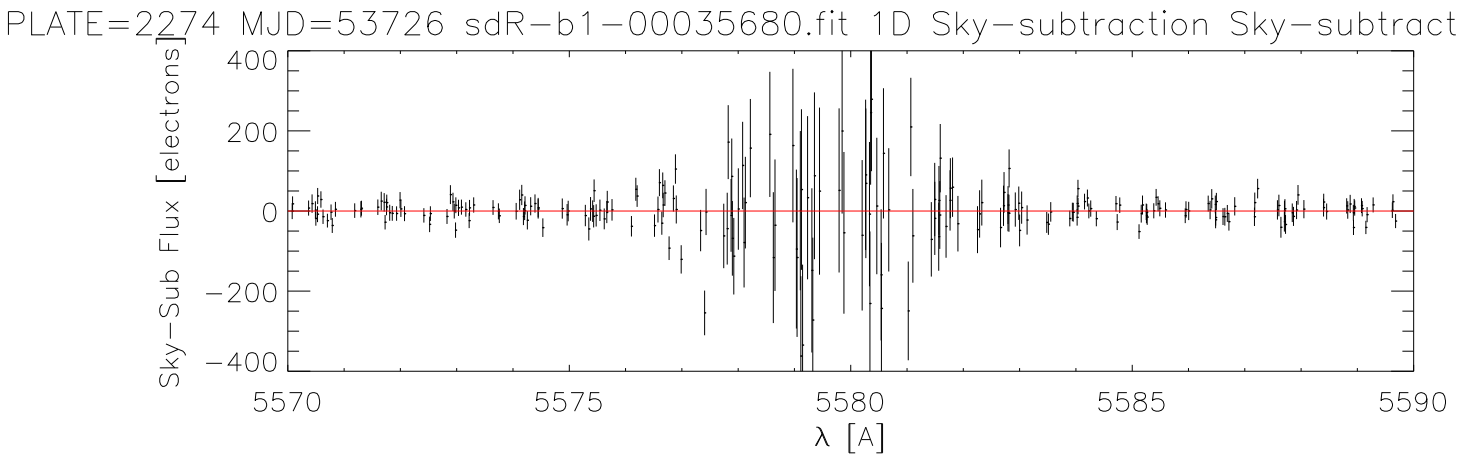

sky shift, pixels
−0.25
−0.30
−0.35
−0.40
−0.45
3500
4000
4500
5000
5500
6000
6500

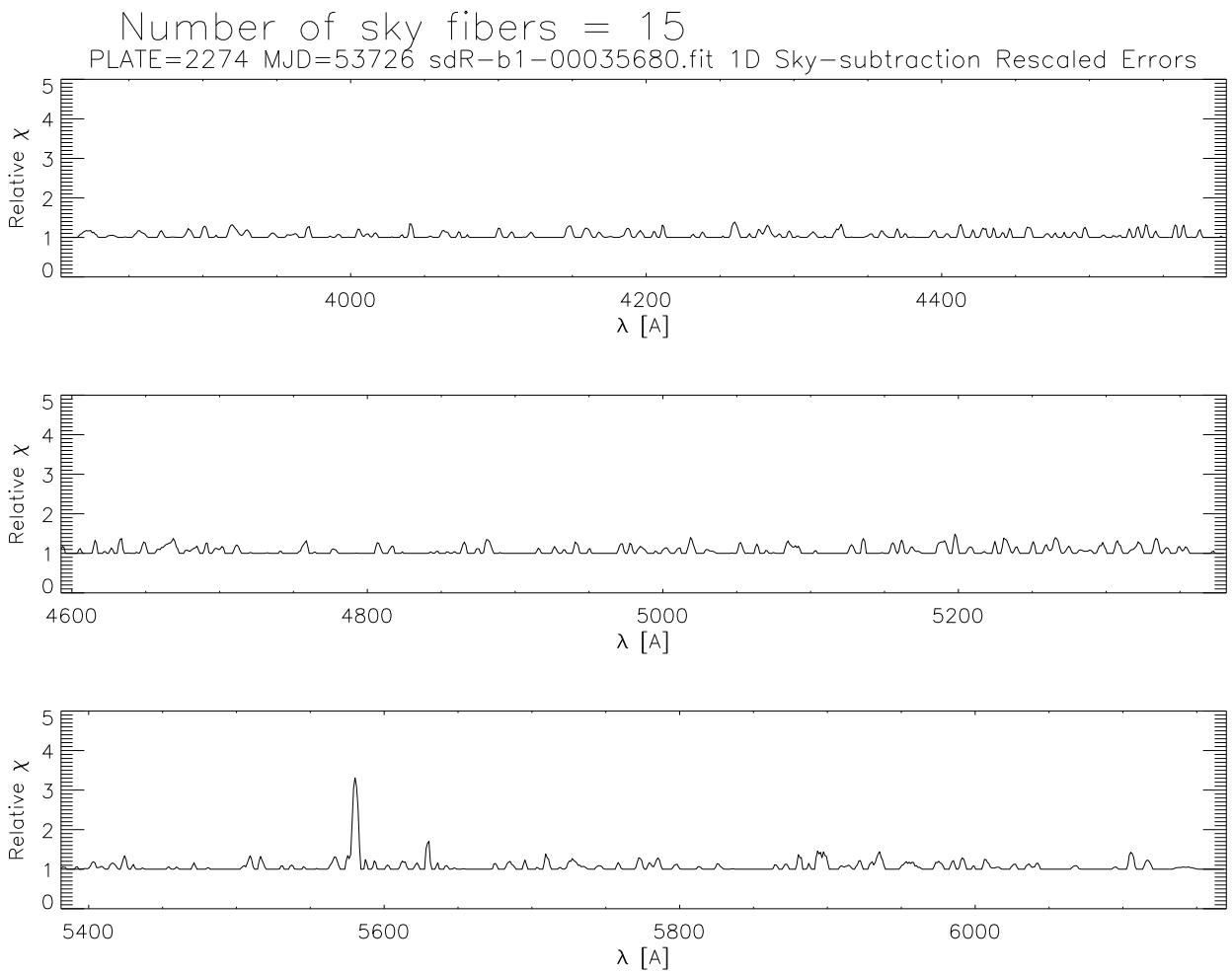

PLATE=2274 MJD=53726 Smooth superflat for sdR-b1-00035680.fit
1.5
1.0
0.5
0.0
1.03
1.02
1.01
1.00
0.99
0.98
4000
4500
5000
5500
6000
Wavelength (Å)

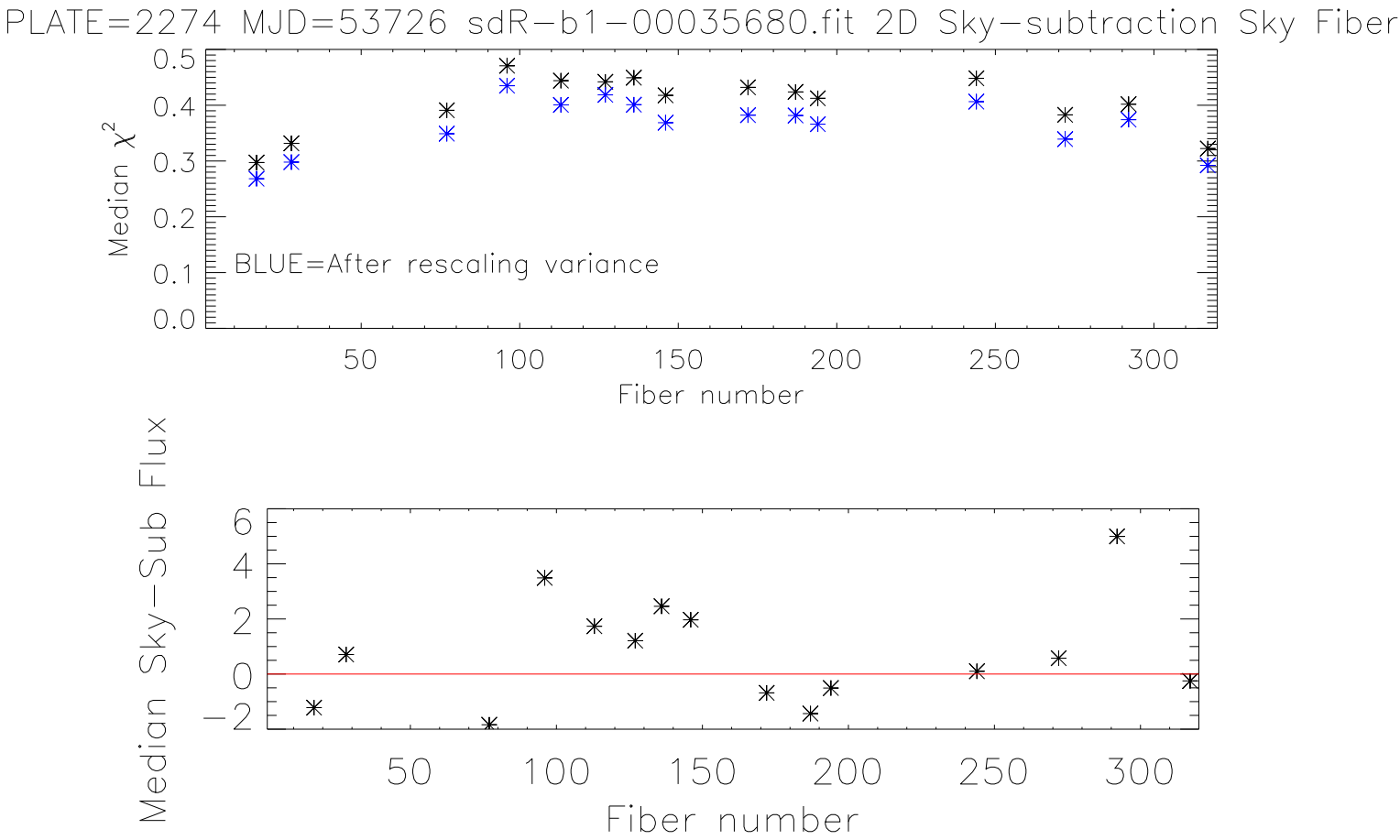
es= −0.0000

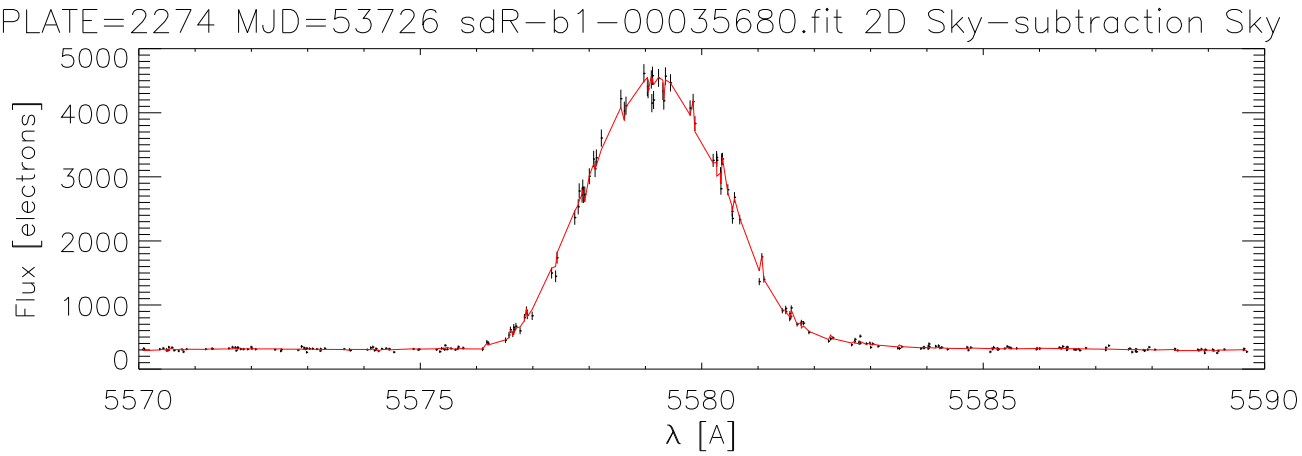

PLATE=2274 MJD=53726 sdR-b1-00035680.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

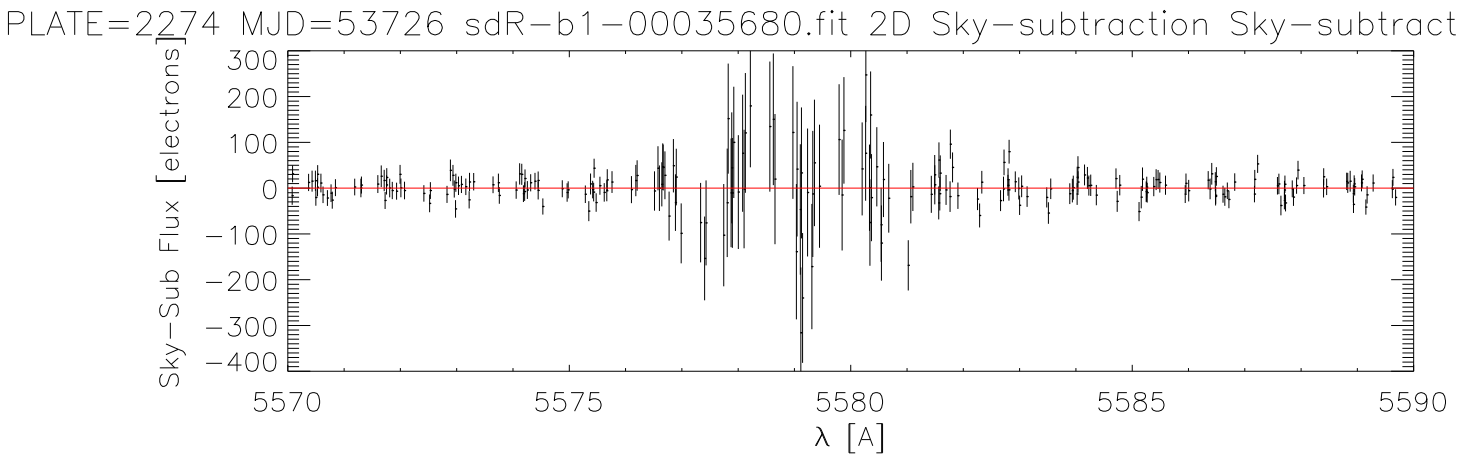

PLATE=2274 MJD=53726 sdR-b1-00035680.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

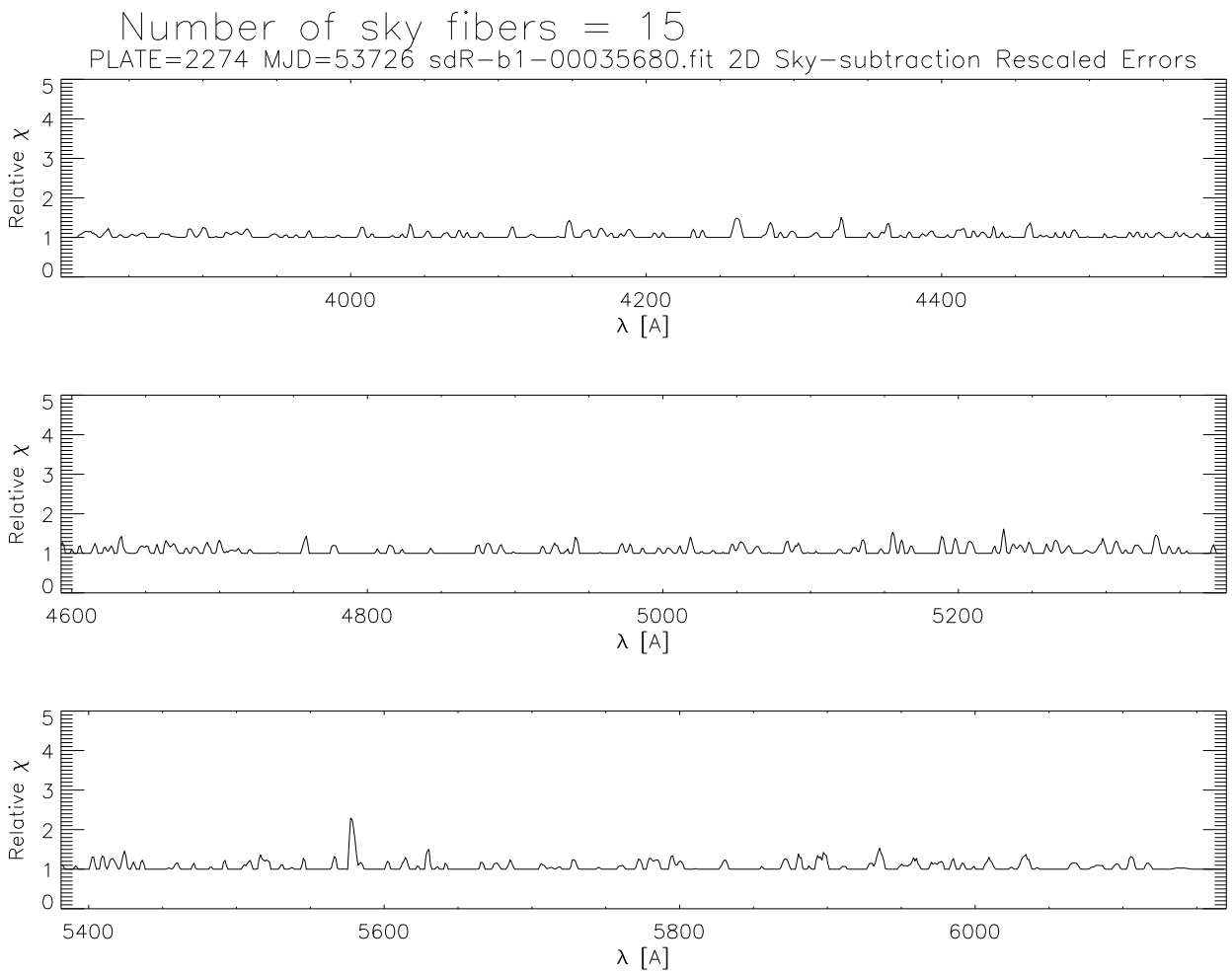

PLATE=2274 MJD=53726 sdR-b1-00035680.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

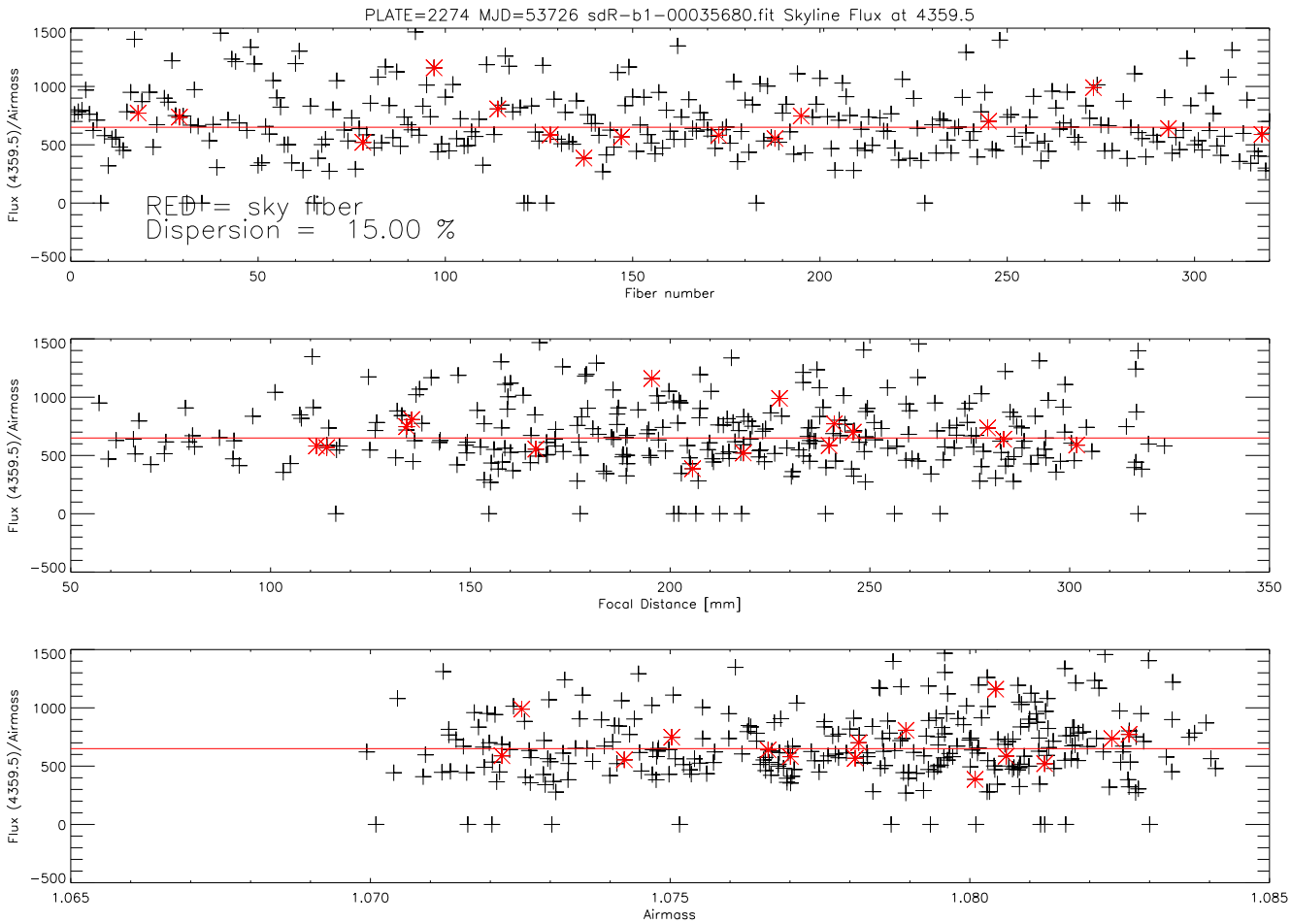

Number of sky fibers = 15
PLATE=2274 MJD=53726 sdR-b1-00035680.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

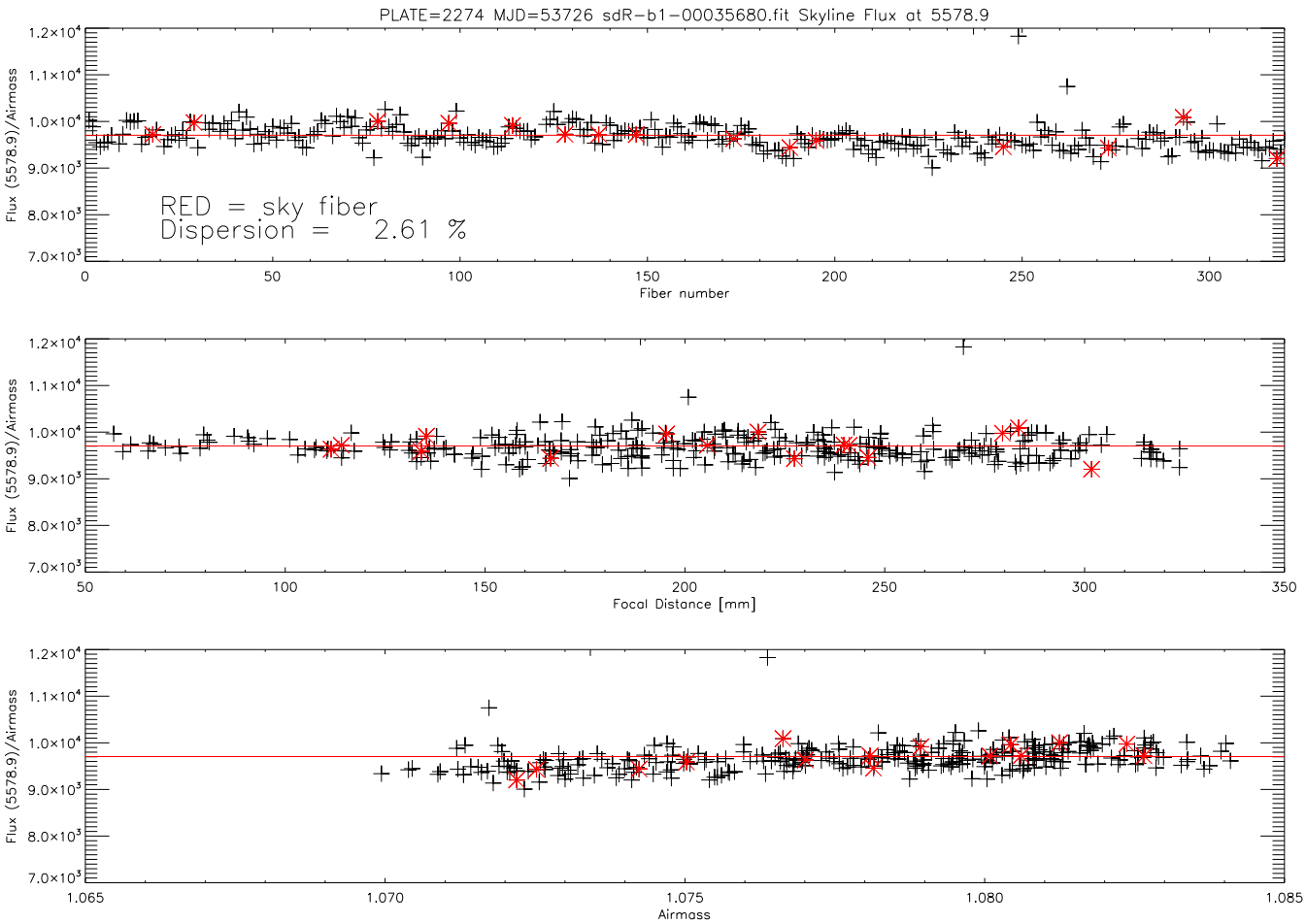

PLATE=2274 MJD=53726 sdR-b1-00035680.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

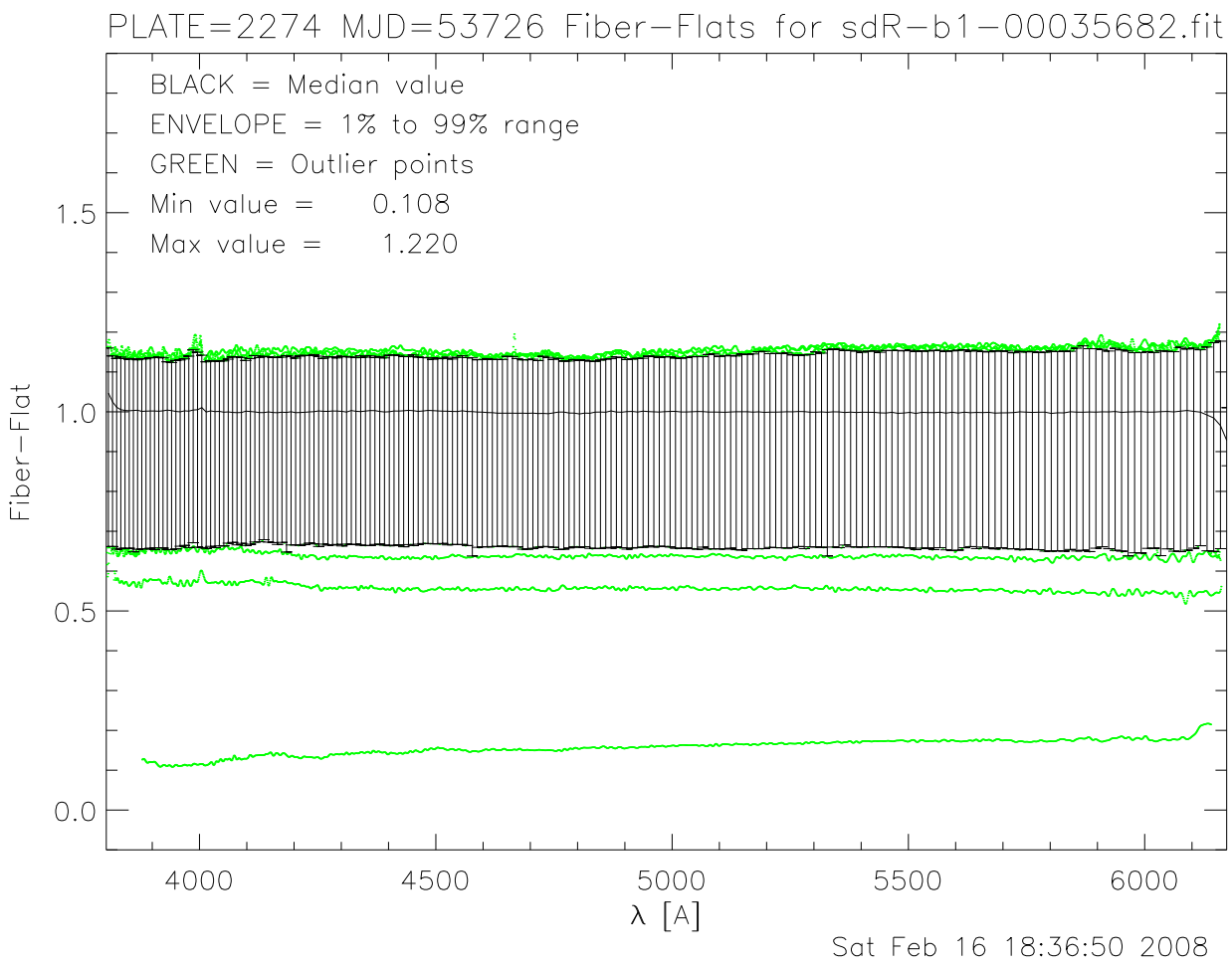

PLATE=2274 MJD=53726 sdR-b1-00035680.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

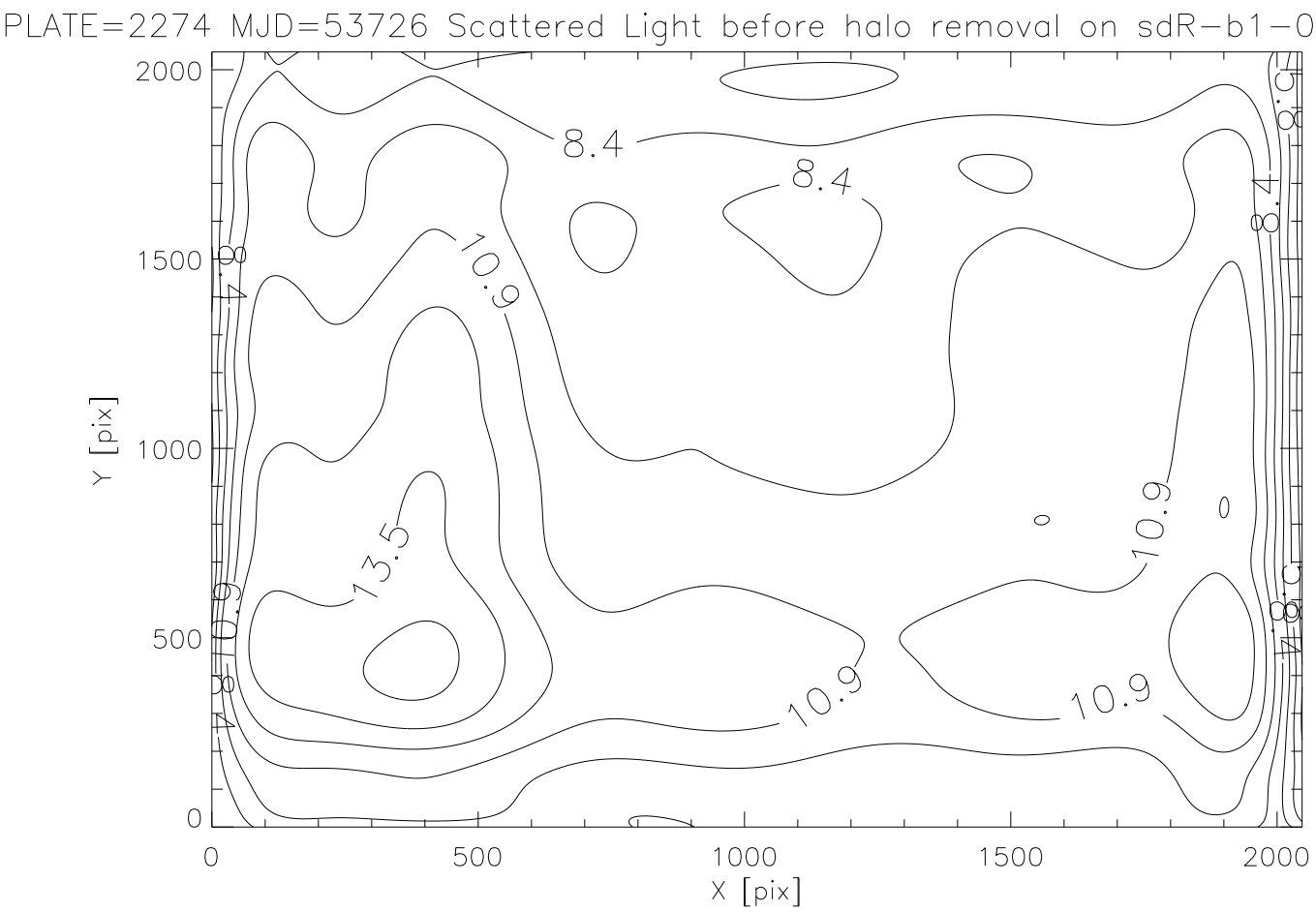

PLATE=2274 MJD=53726 sdR-b1-00035680.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
-400
5570
5575
5580
5585
5590
λ [A]

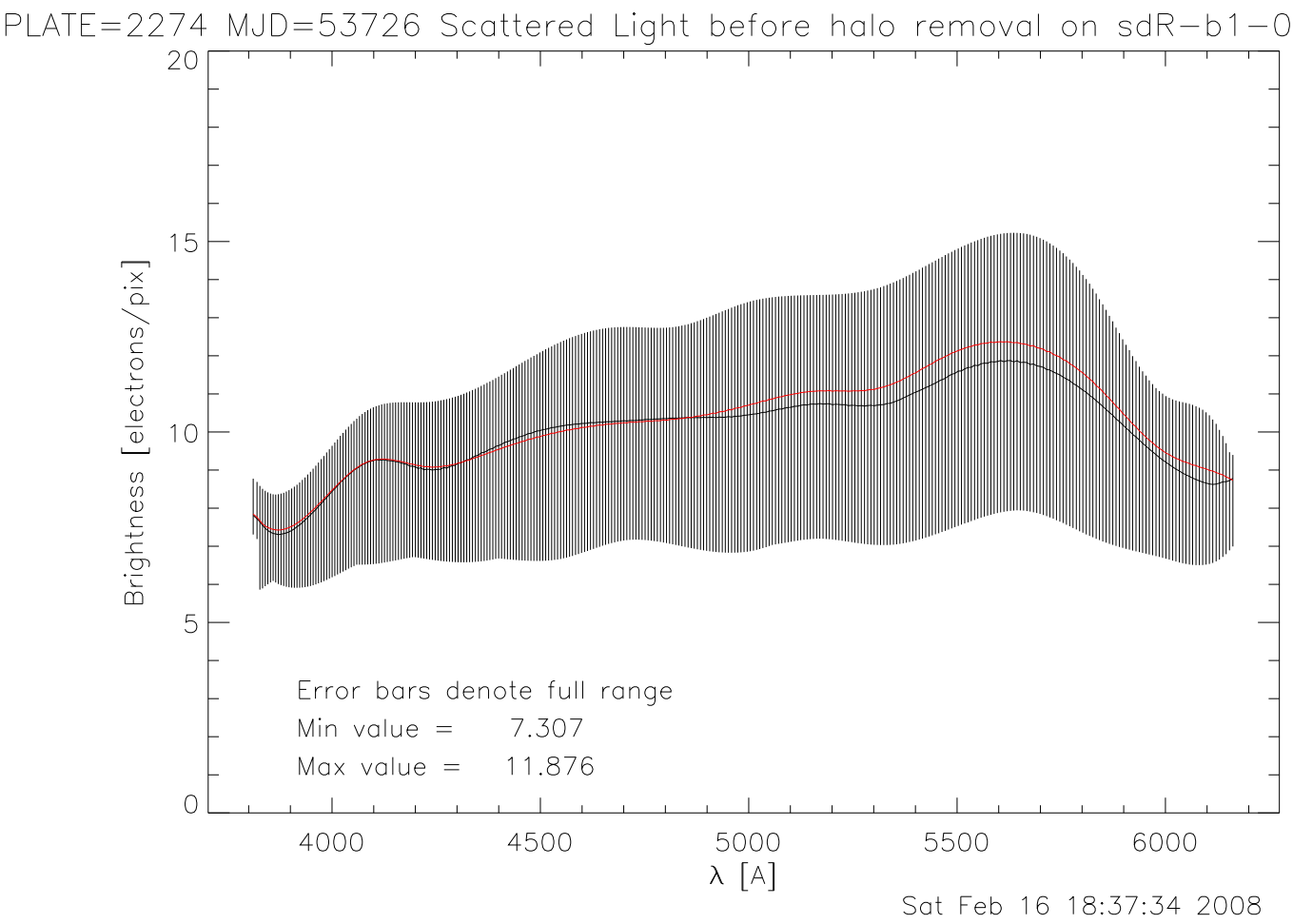

Number of sky fibers = 15
PLATE=2274 MJD=53726 sdR-b1-00035680.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

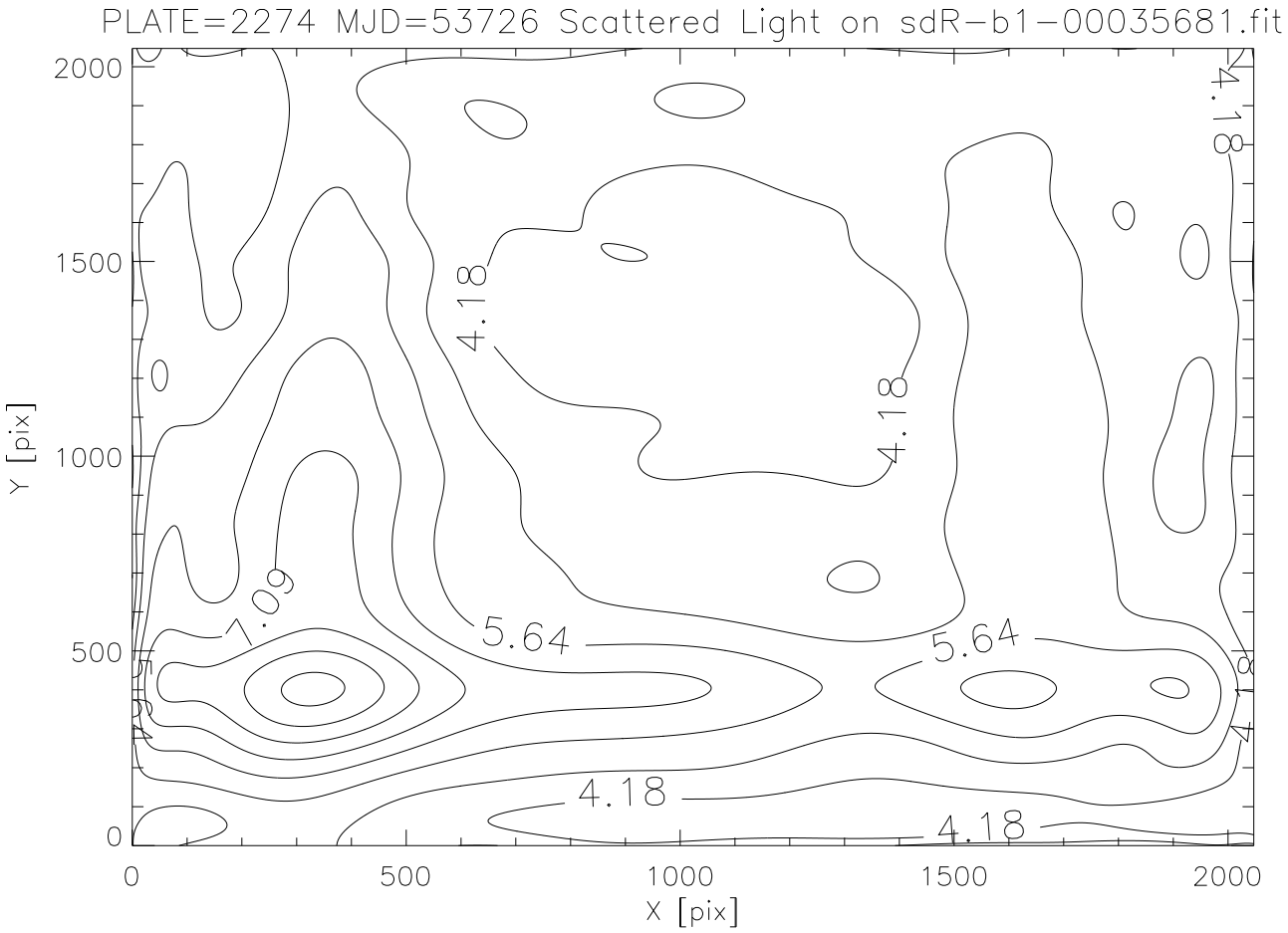

PLATE=2274 MJD=53726 sdR-b1-00035680.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED= sky fiber
Dispersion = 15.00 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

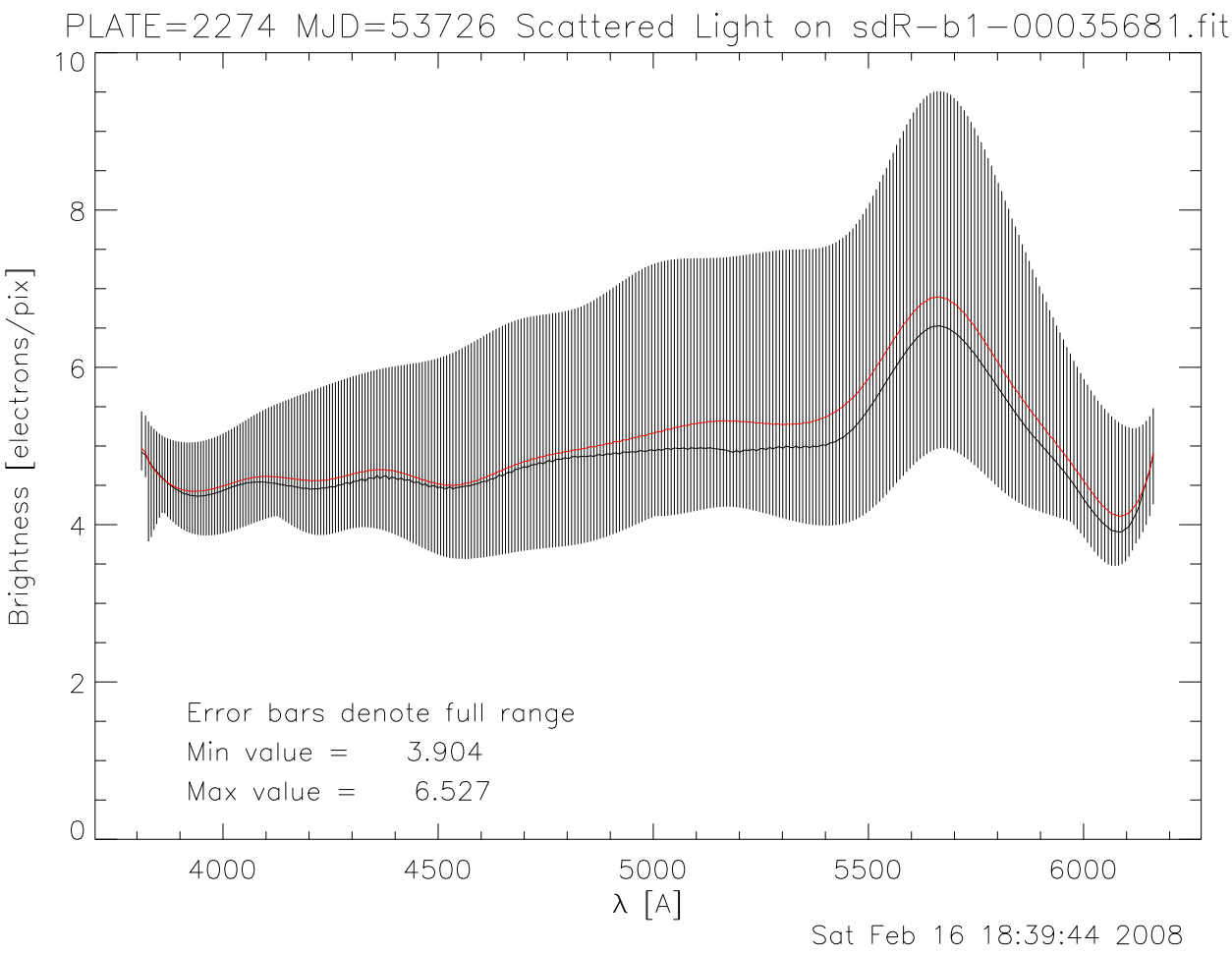

PLATE=2274 MJD=53726 sdR-b1-00035680.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.61 %
Fiber number
Focal Distance [mm]
Airmass

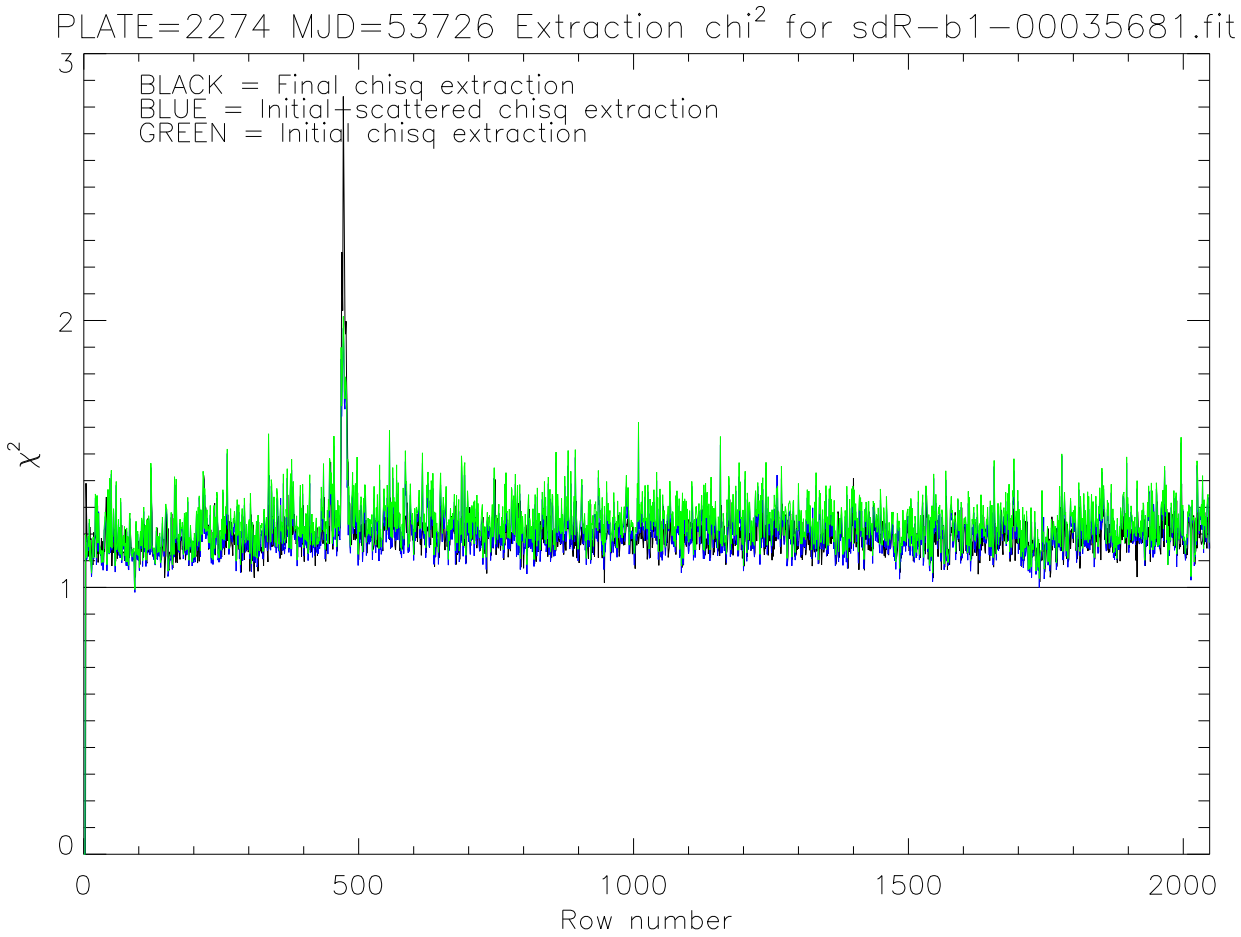

PLATE=2274 MJD=53726 Fiber-Flats for sdR-b1-00035682.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.108
Max value = 1.220
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 18:36:50 2008

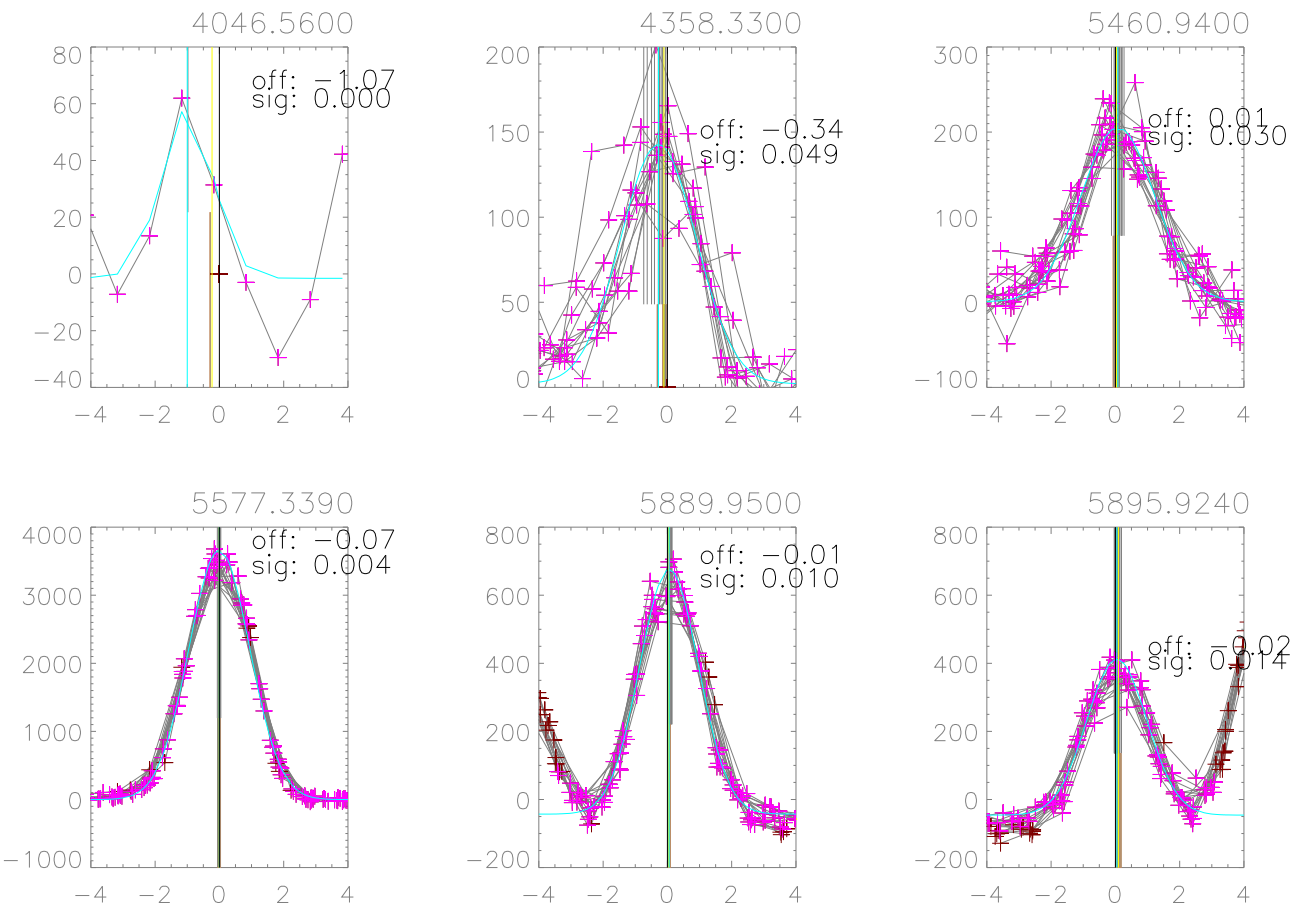

PLATE=2274 MJD=53726 Scattered Light before halo removal on sdR−b1−00035681.f
Y [pix]
X [pix]
0
500
1000
1500
2000
8.4
10.9
13.5

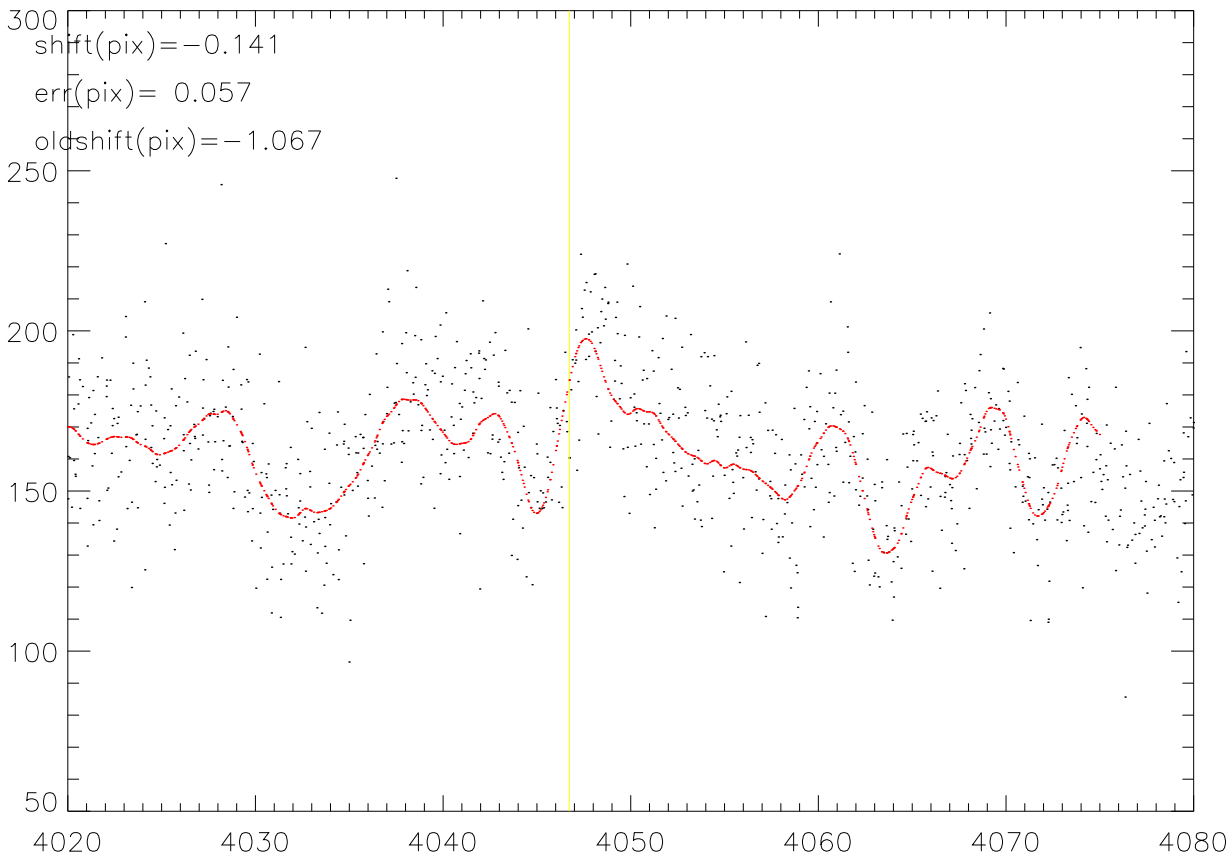

PLATE=2274 MJD=53726 Scattered Light before halo removal on sdR-b1-00035681.f
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 7.307
Max value = 11.876
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 18:37:34 2008

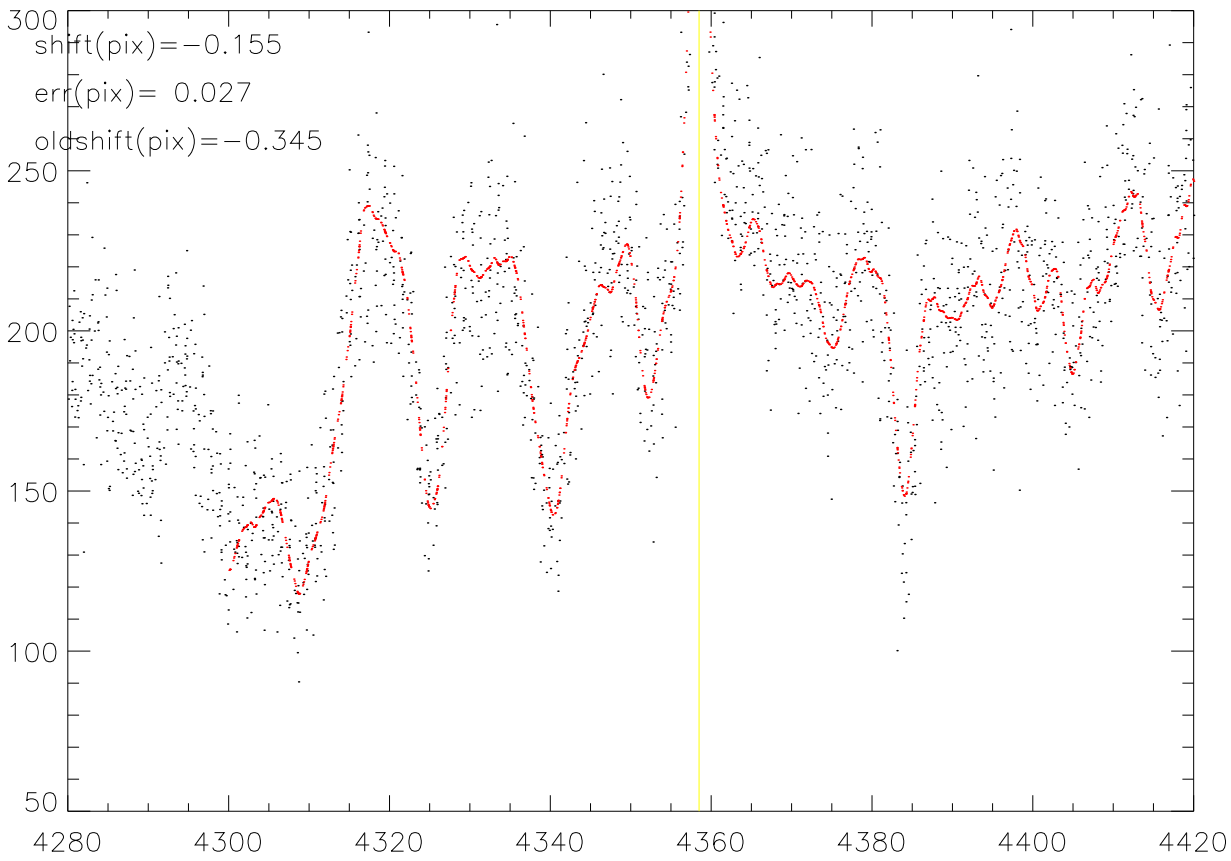

PLATE=2274 MJD=53726 Scattered Light on sdR-b1-00035681.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
0
4.18
7.09
5.64
5.64
4.18
4.18
4.18
4.18
4.18
0

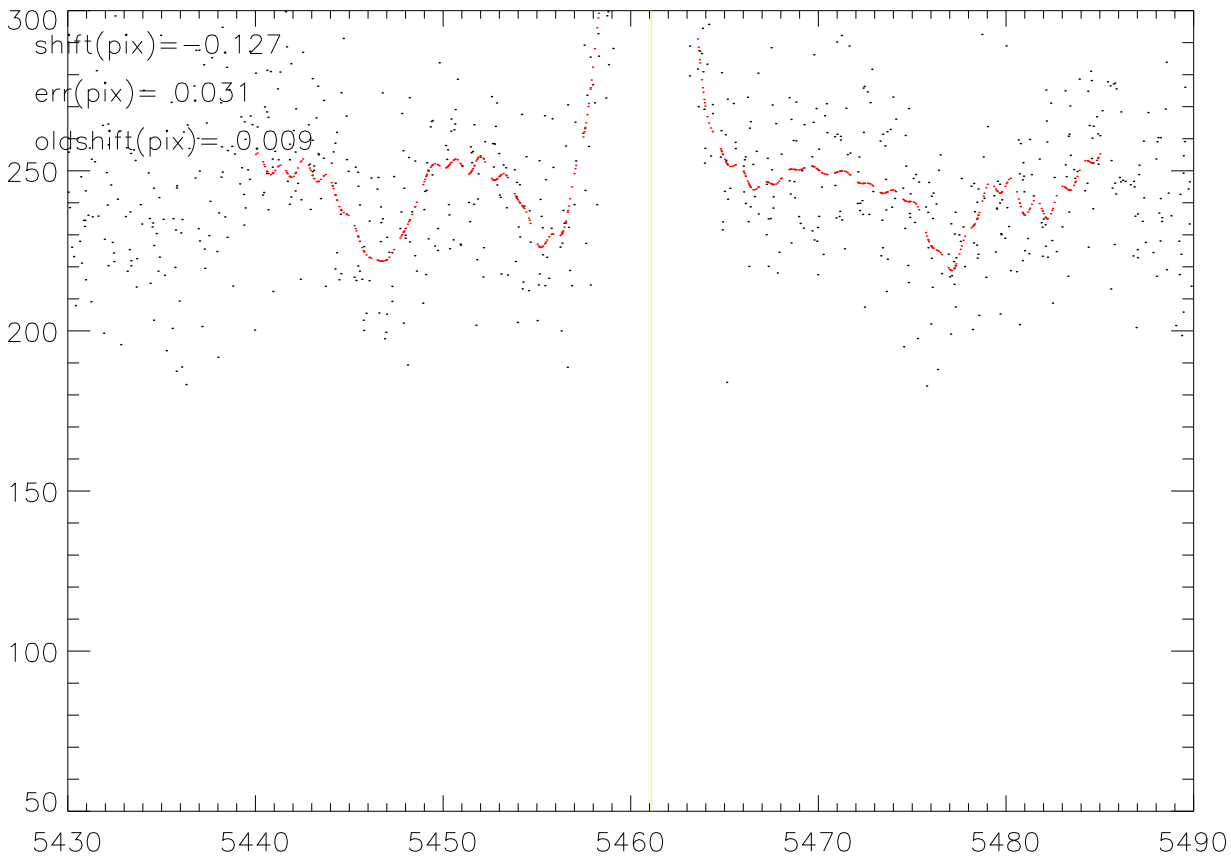

PLATE=2274 MJD=53726 Scattered Light on sdR-b1-00035681.fit
Brightness [electrons/pix]
10
8
6
4
2
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 3.904
Max value = 6.527
Sat Feb 16 18:39:44 2008

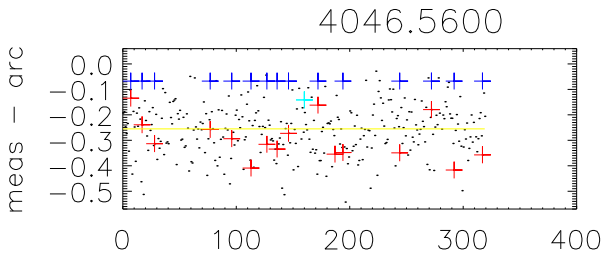

PLATE=2274 MJD=53726 Extraction chi^2 for sdR-b1-00035681.fit
BLACK = Final chisq extraction
BLUE = Initial+scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
0
500
1000
1500
2000
Row number

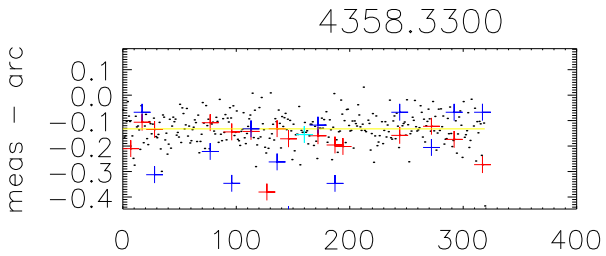

4046.5600
off: −1.07
sig: 0.000
4358.3300
off: −0.34
sig: 0.049
5460.9400
off: 0.01
sig: 0.030
5577.3390
off: −0.07
sig: 0.004
5889.9500
off: −0.01
sig: 0.010
5895.9240
off: −0.02
sig: 0.014

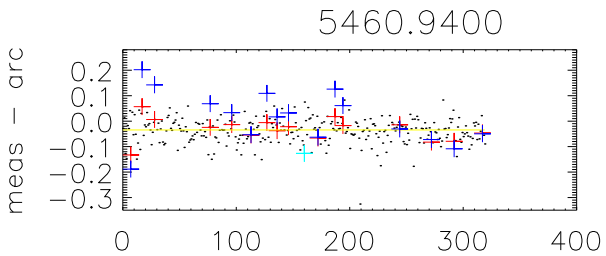

shift(pix)=−0.141
err(pix)= 0.057
oldshift(pix)=−1.067
300
250
200
150
100
50
4020
4030
4040
4050
4060
4070
4080

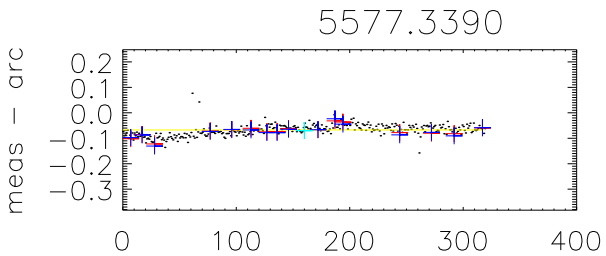

shift(pix)=−0.155
err(pix)= 0.027
oldshift(pix)=−0.345
300
250
200
150
100
50
4280
4300
4320
4340
4360
4380
4400
4420

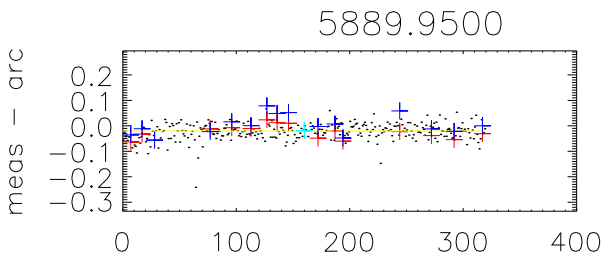

shift(pix)=-0.127
err(pix)= 0.031
oldshift(pix)= 0.009
300
250
200
150
100
50
5430
5440
5450
5460
5470
5480
5490

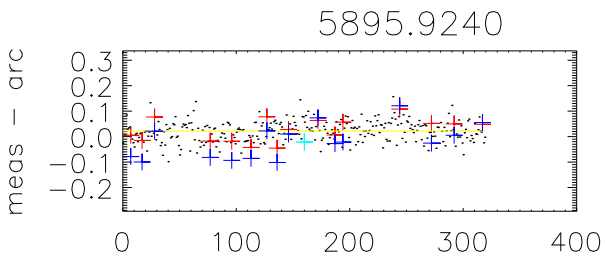

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

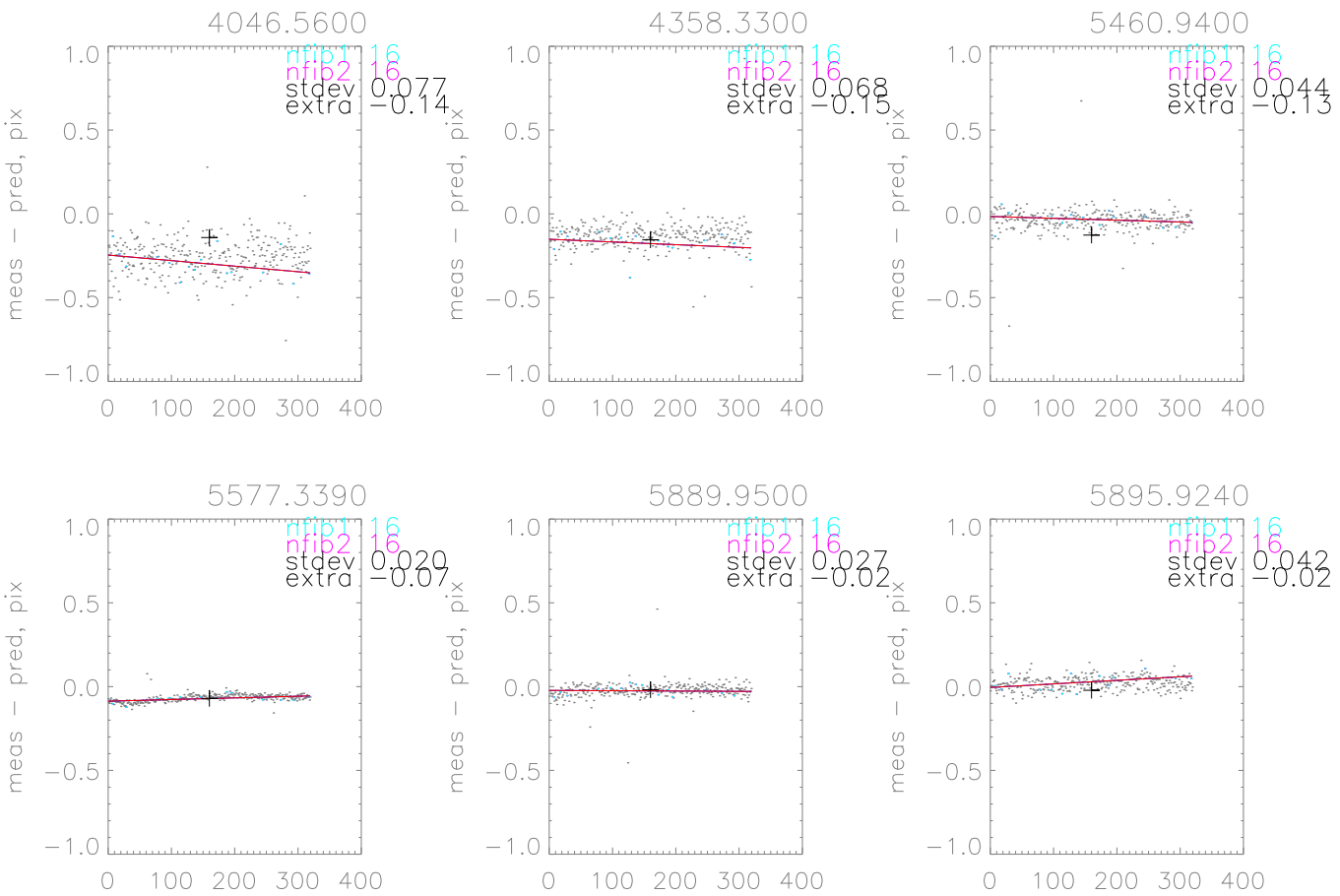

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

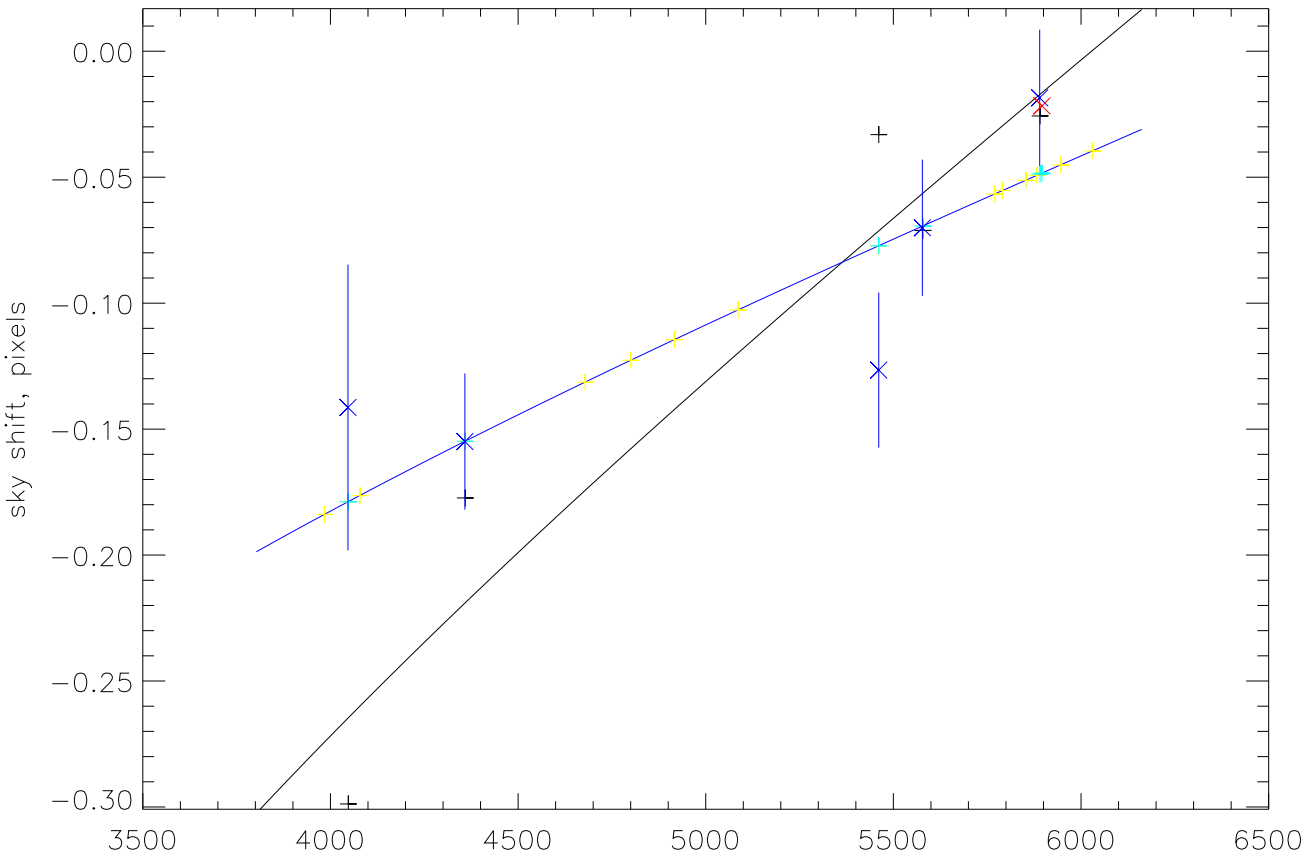

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

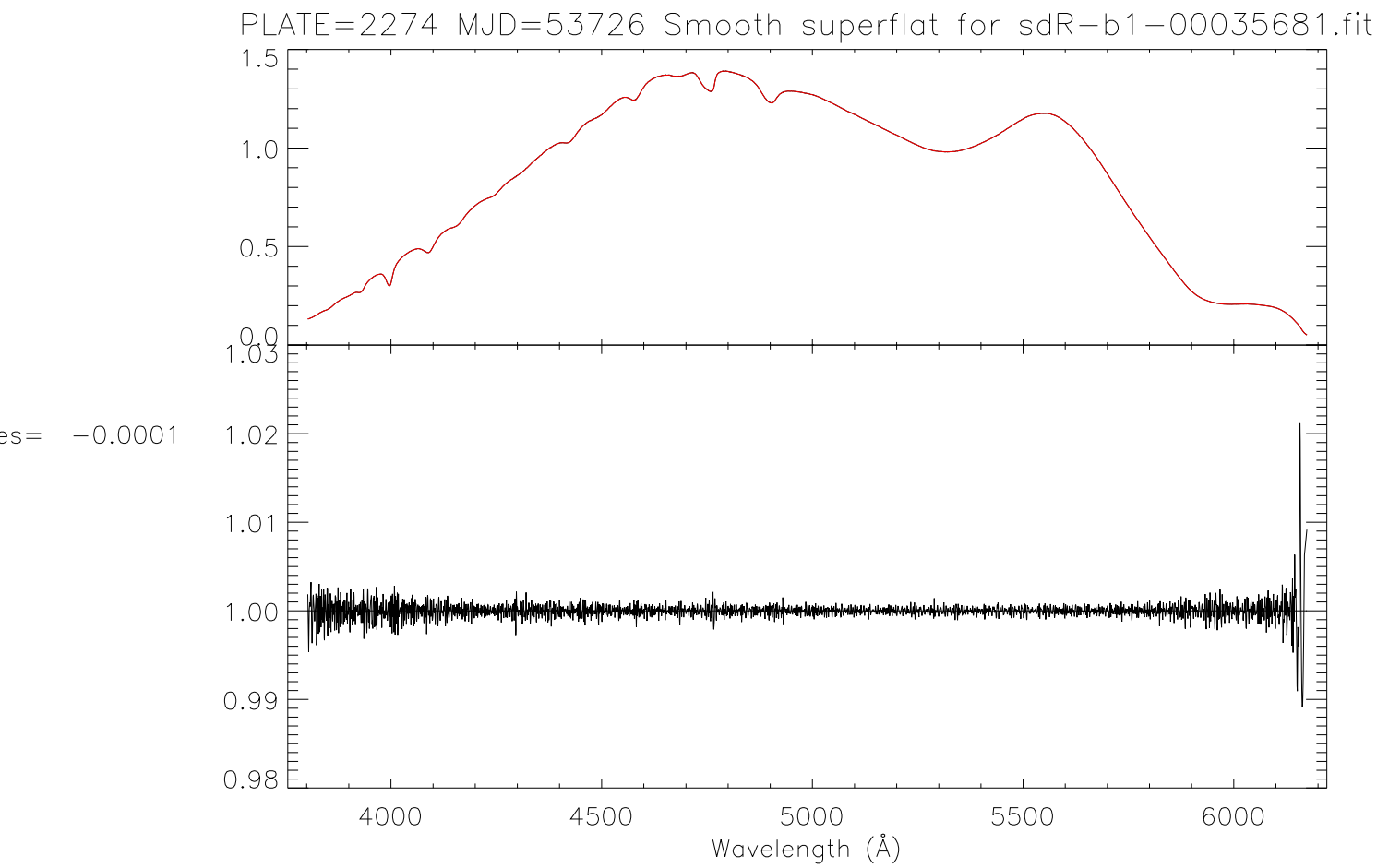

5577.3390
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


5889.9500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

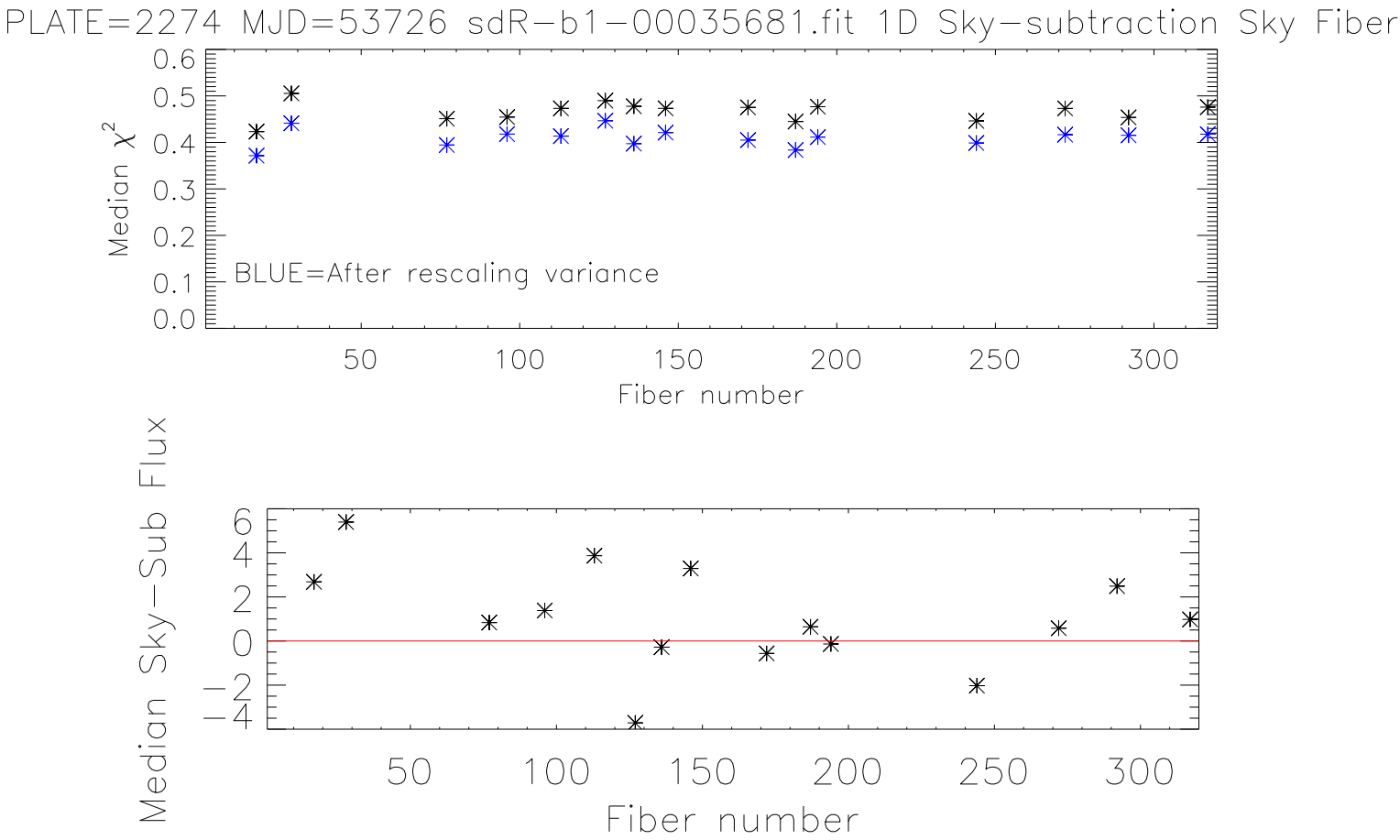

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

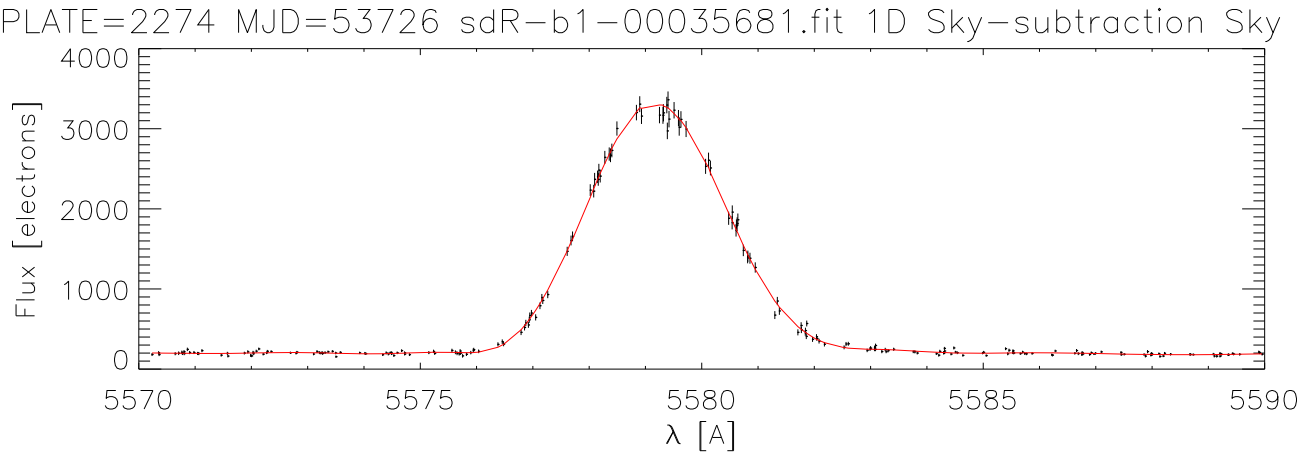

4046.5600
nfib1 16
nfib2 16
stdev 0.077
extra −0.14
4358.3300
nfib1 16
nfib2 16
stdev 0.068
extra −0.15
5460.9400
nfib1 16
nfib2 16
stdev 0.044
extra −0.13
5577.3390
nfib1 16
nfib2 16
stdev 0.020
extra −0.07
5889.9500
nfib1 16
nfib2 16
stdev 0.027
extra −0.02
5895.9240
nfib1 16
nfib2 16
stdev 0.042
extra −0.02
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

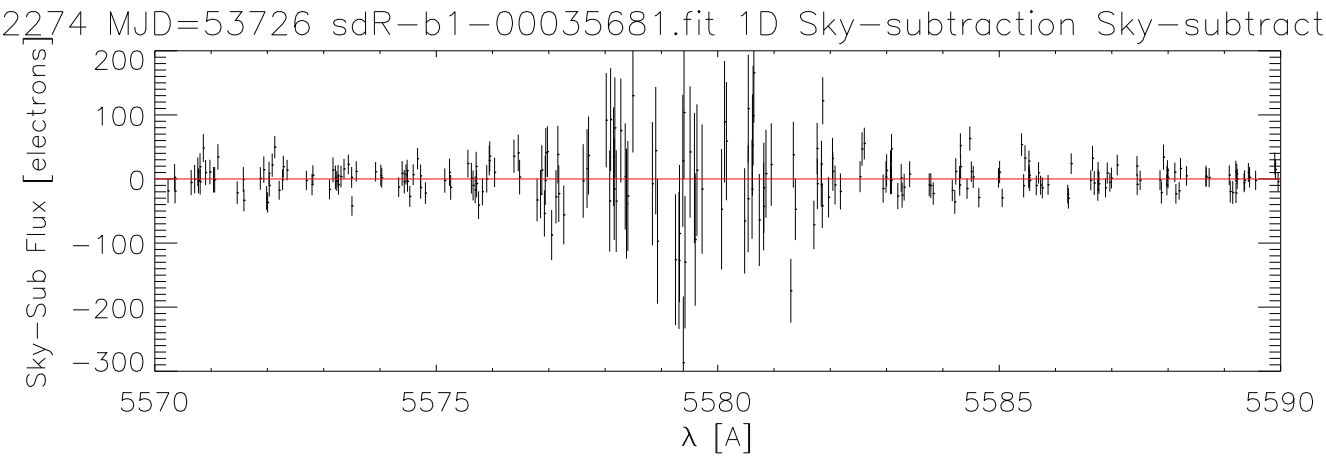

0.00
−0.05
−0.10
−0.15
−0.20
−0.25
−0.30
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

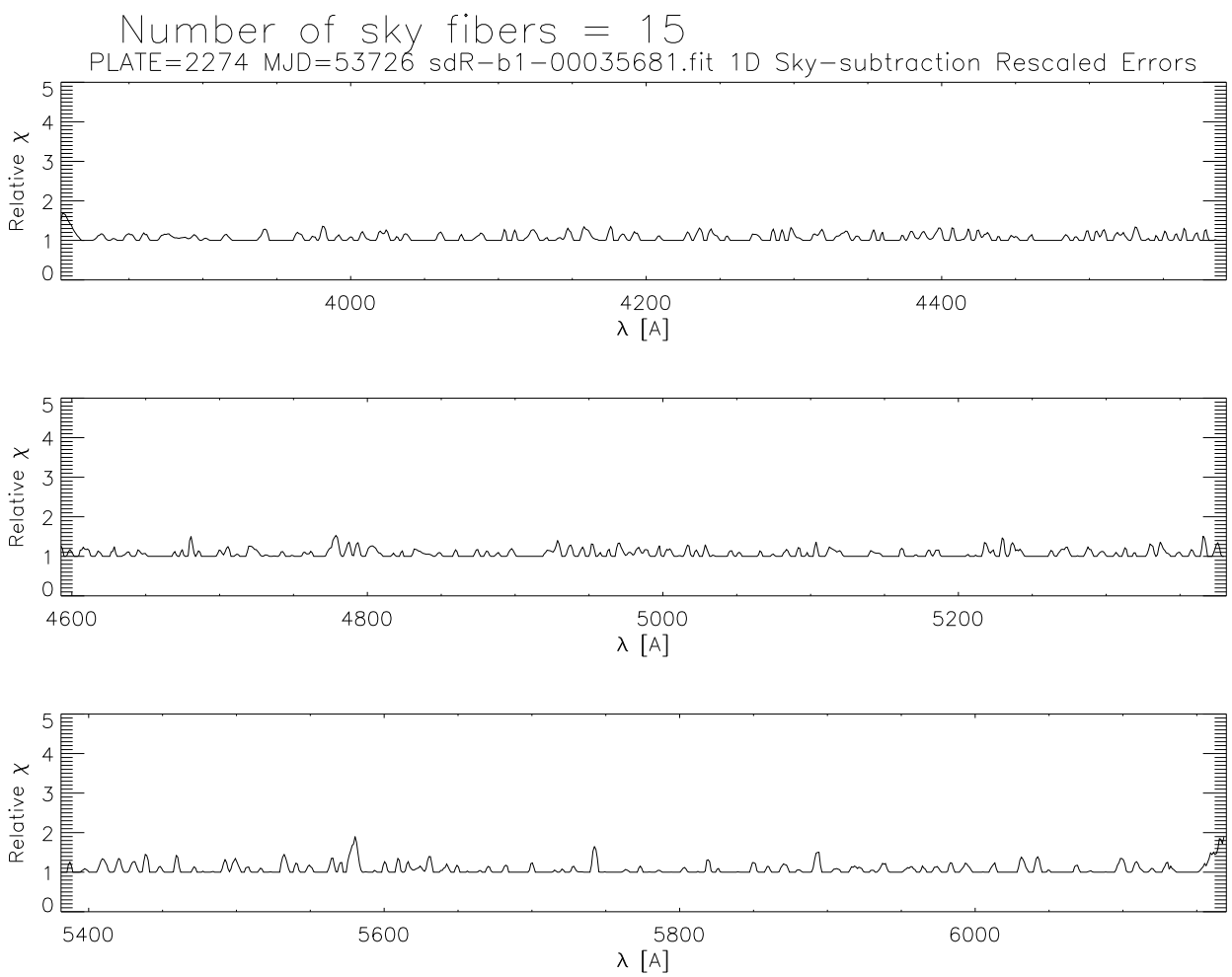

PLATE=2274 MJD=53726 Smooth superflat for sdR-b1-00035681.fit
1.5
1.0
0.5
0.0
1.03
1.02
1.01
1.00
0.99
0.98
4000
4500
5000
5500
6000
Wavelength (Å)

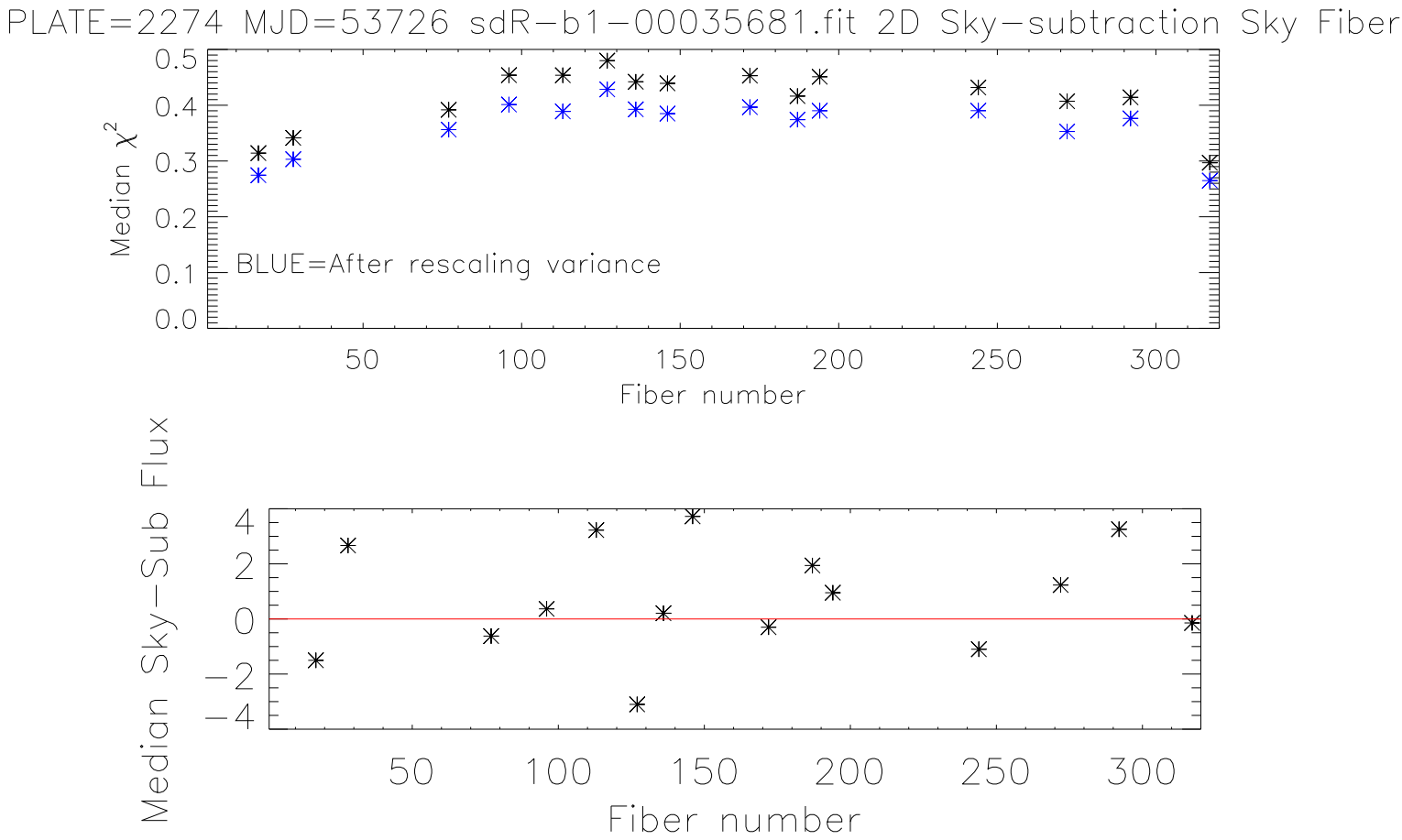
es= −0.0001

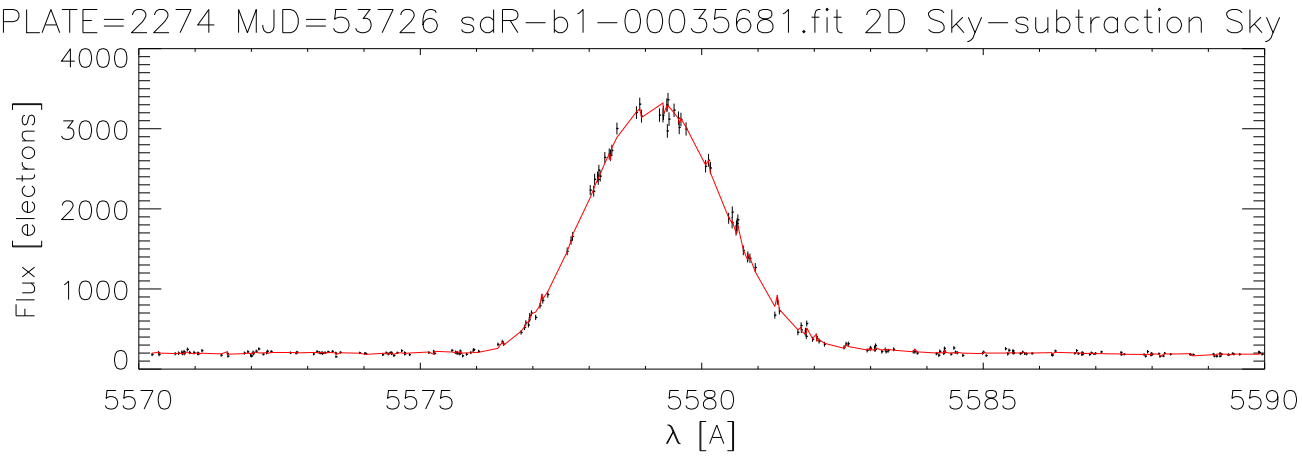

PLATE=2274 MJD=53726 sdR-b1-00035681.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

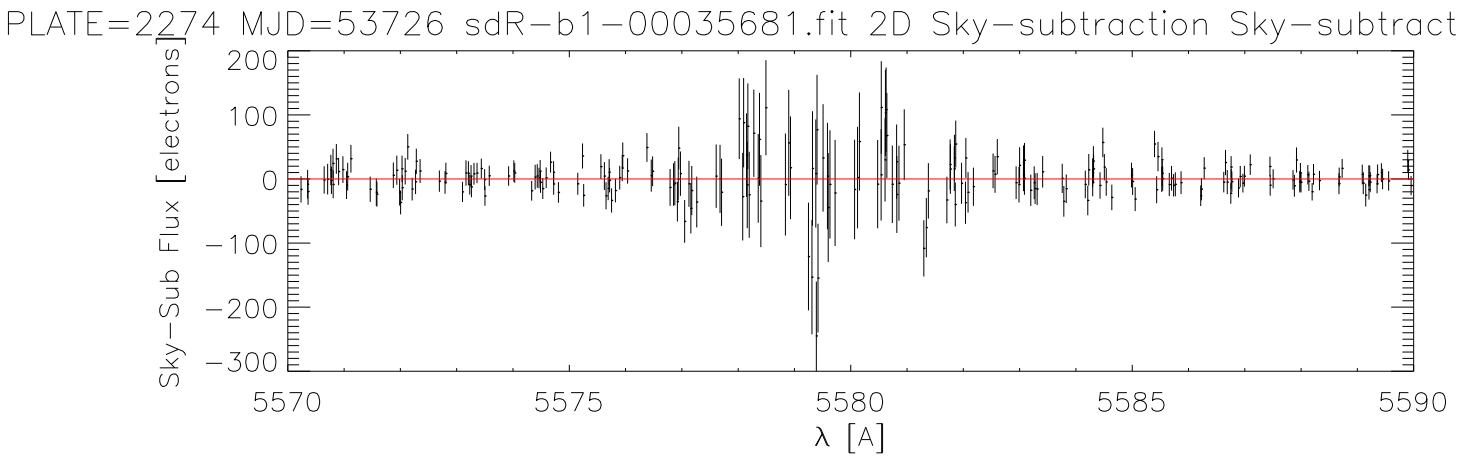

PLATE=2274 MJD=53726 sdR-b1-00035681.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

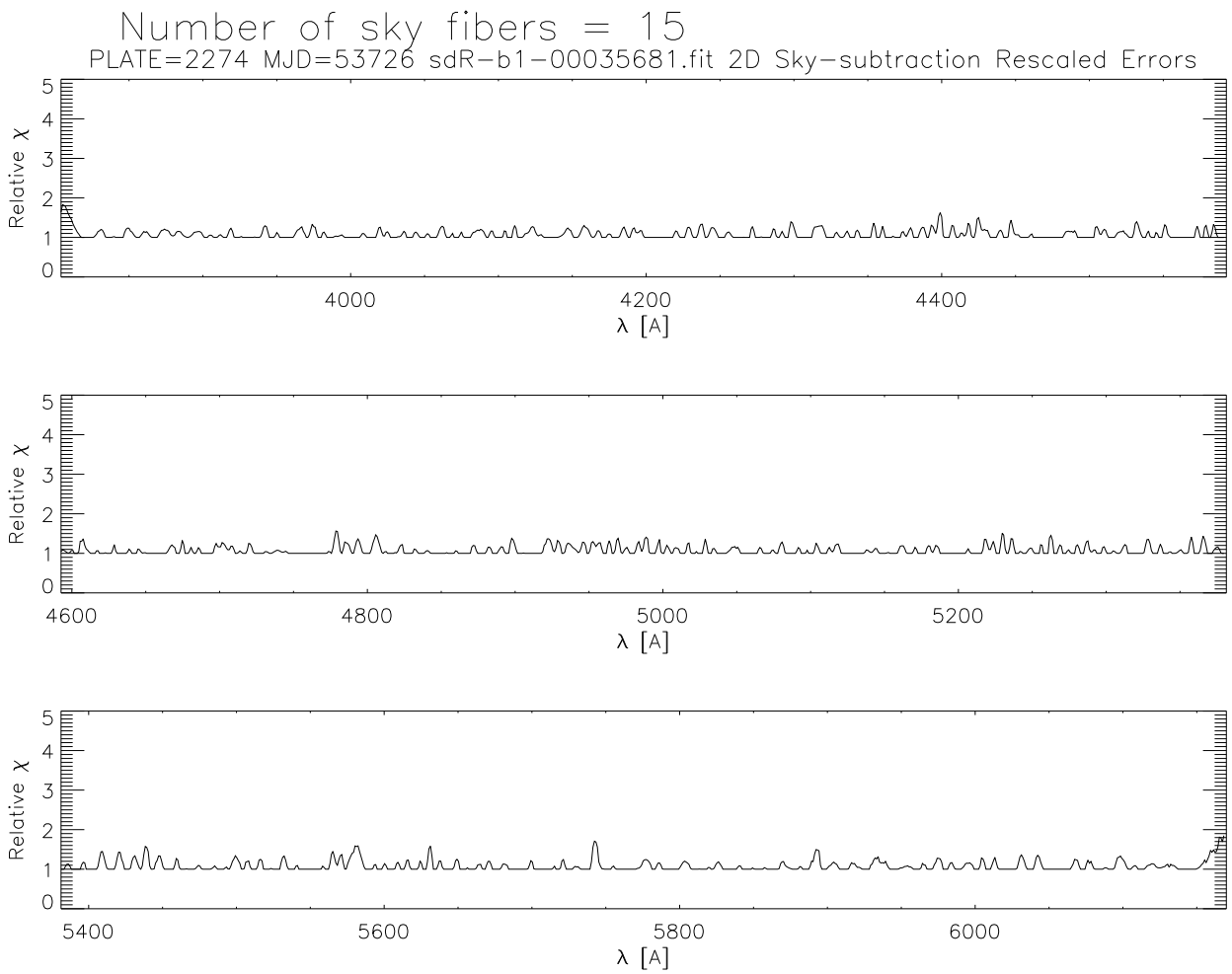

PLATE=2274 MJD=53726 sdR-b1-00035681.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

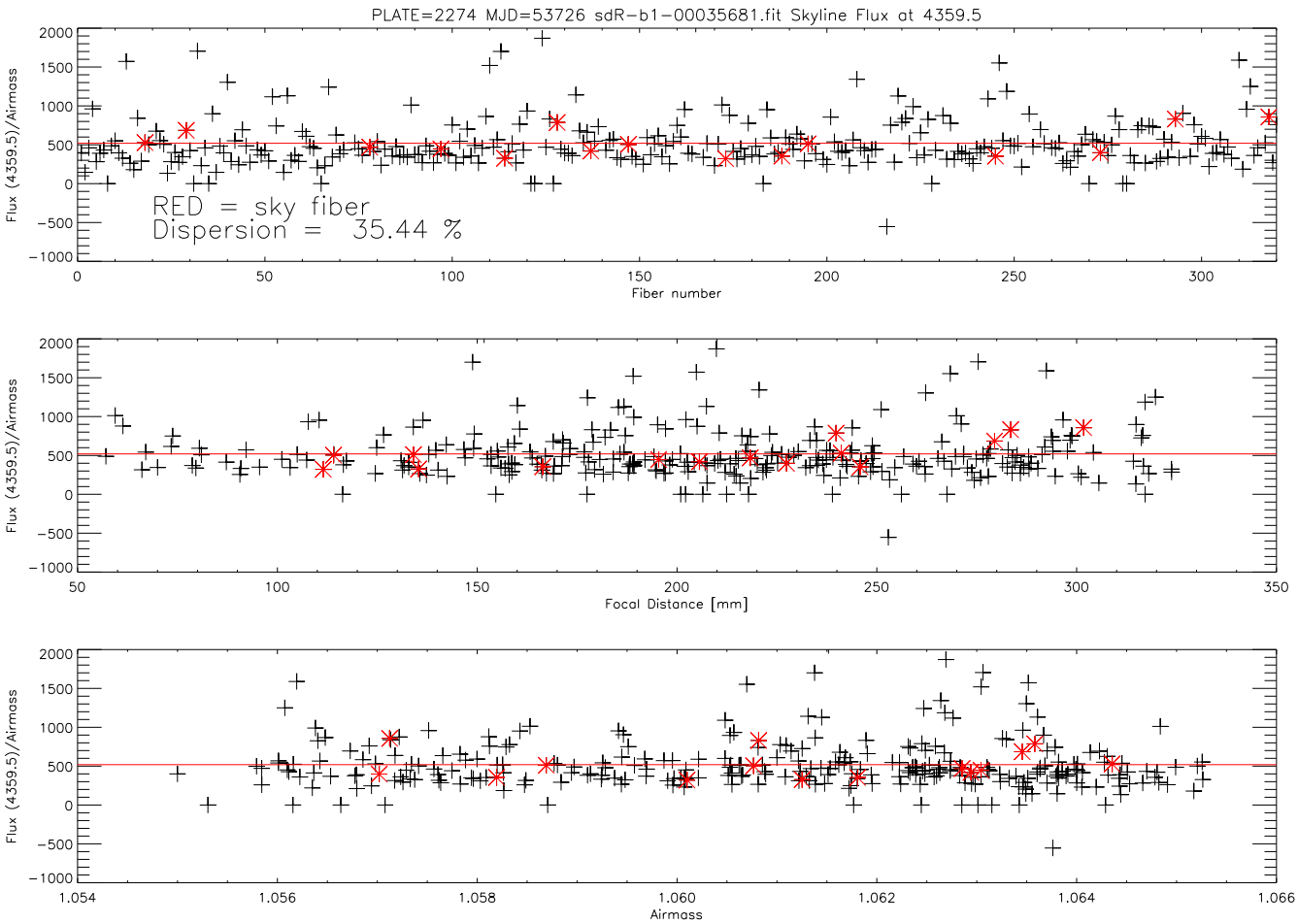

Number of sky fibers = 15
PLATE=2274 MJD=53726 sdR-b1-00035681.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

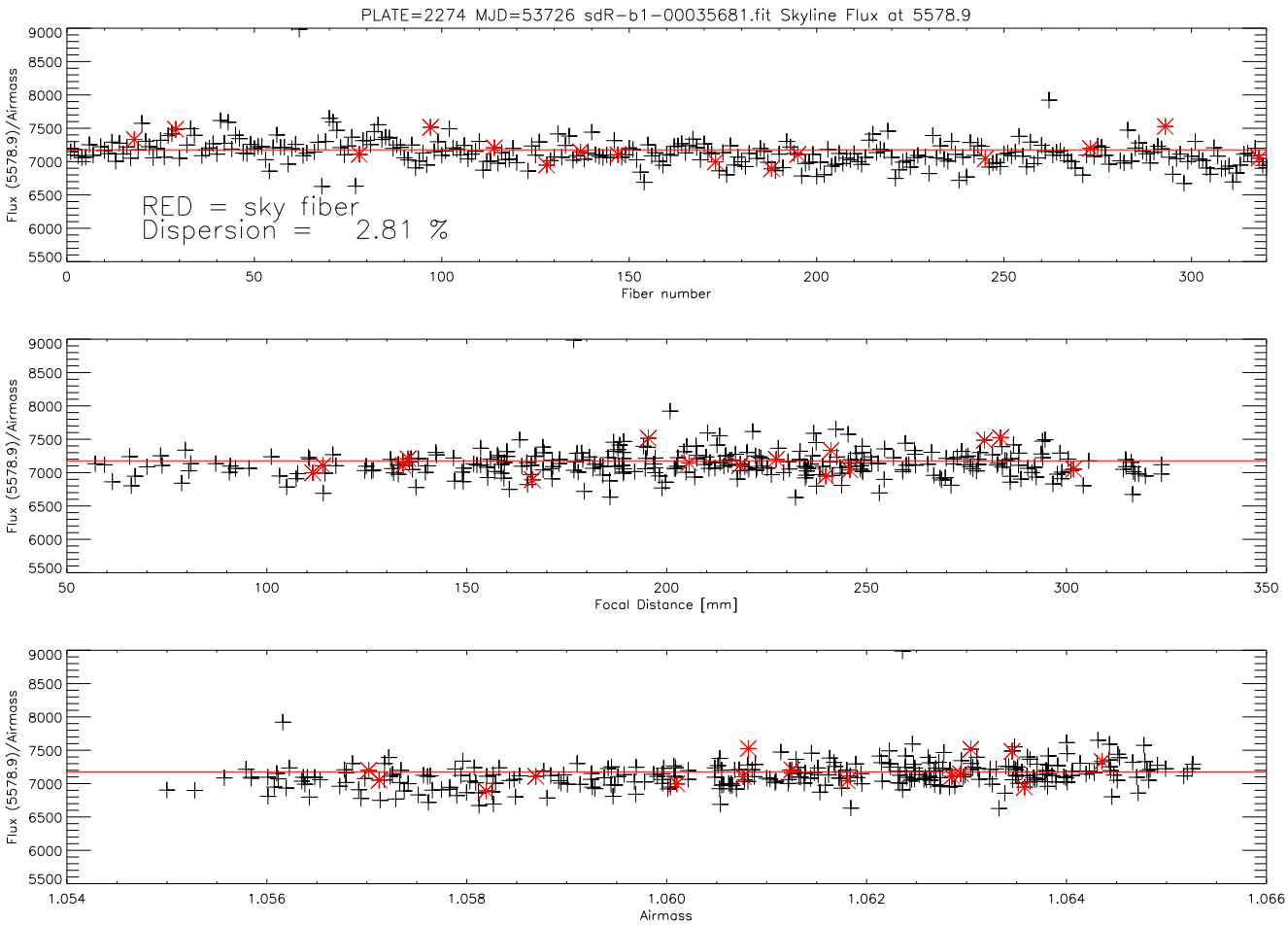

PLATE=2274 MJD=53726 sdR-b1-00035681.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

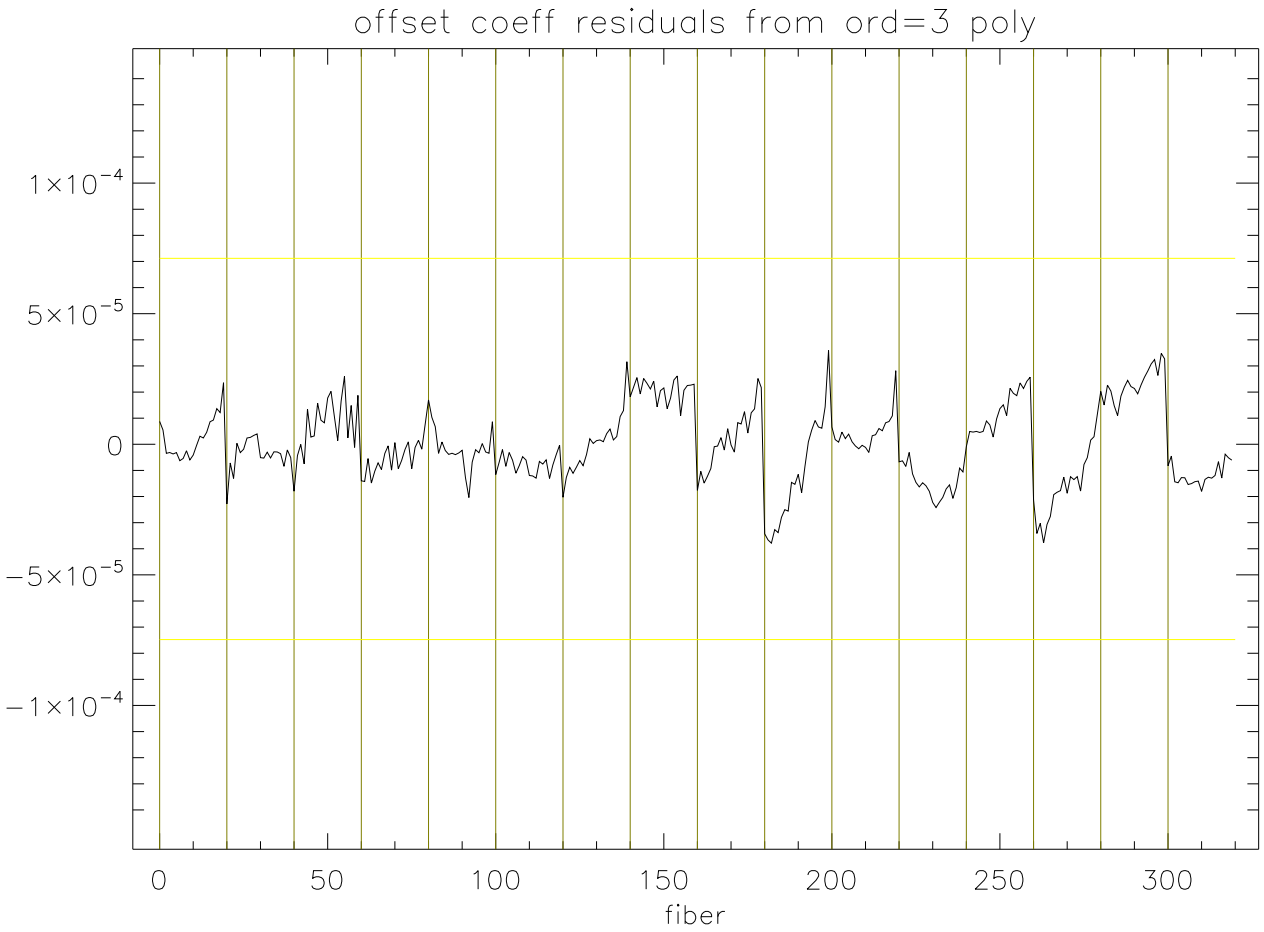

PLATE=2274 MJD=53726 sdR-b1-00035681.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

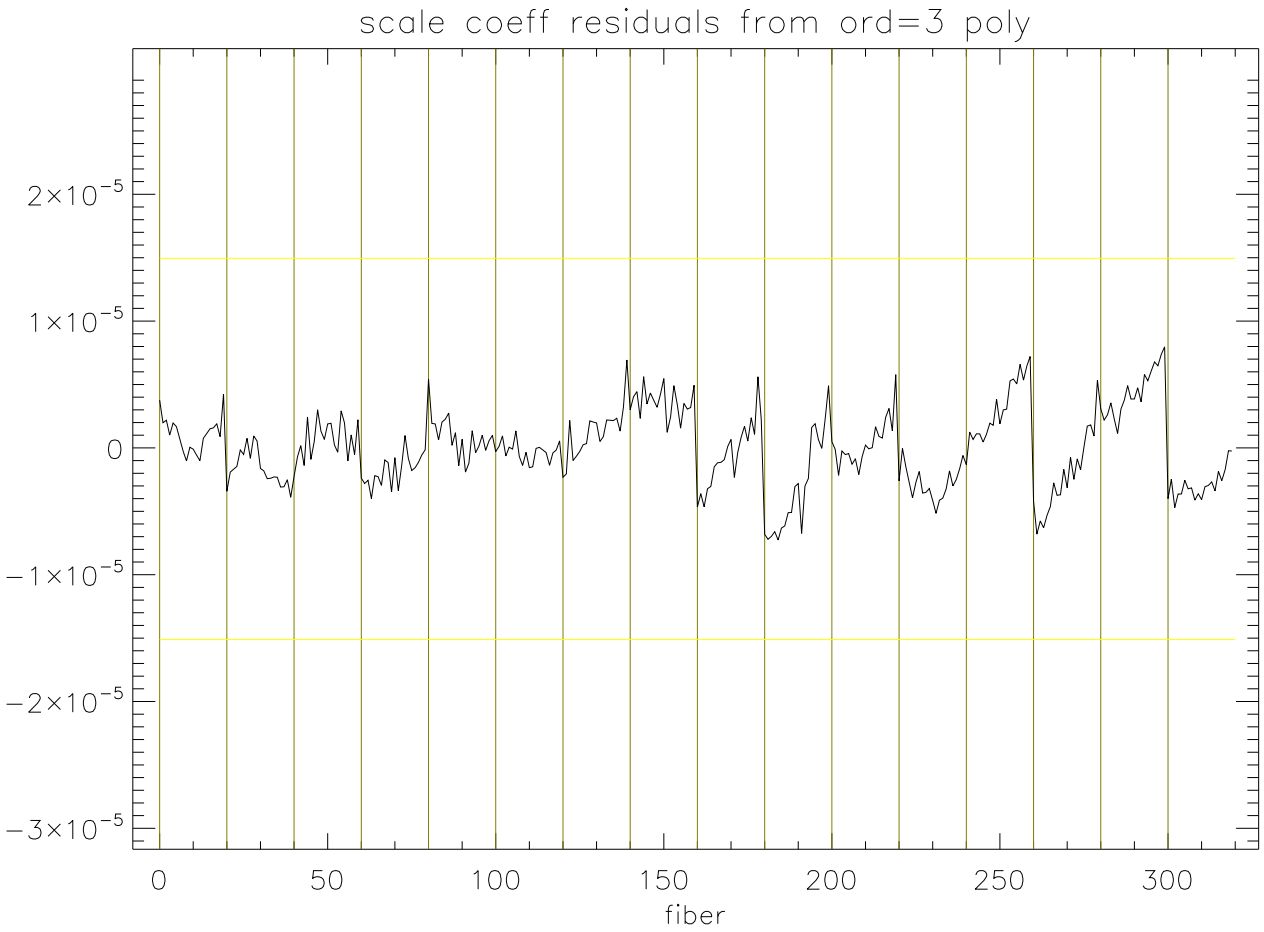

PLATE=2274 MJD=53726 sdR-b1-00035681.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

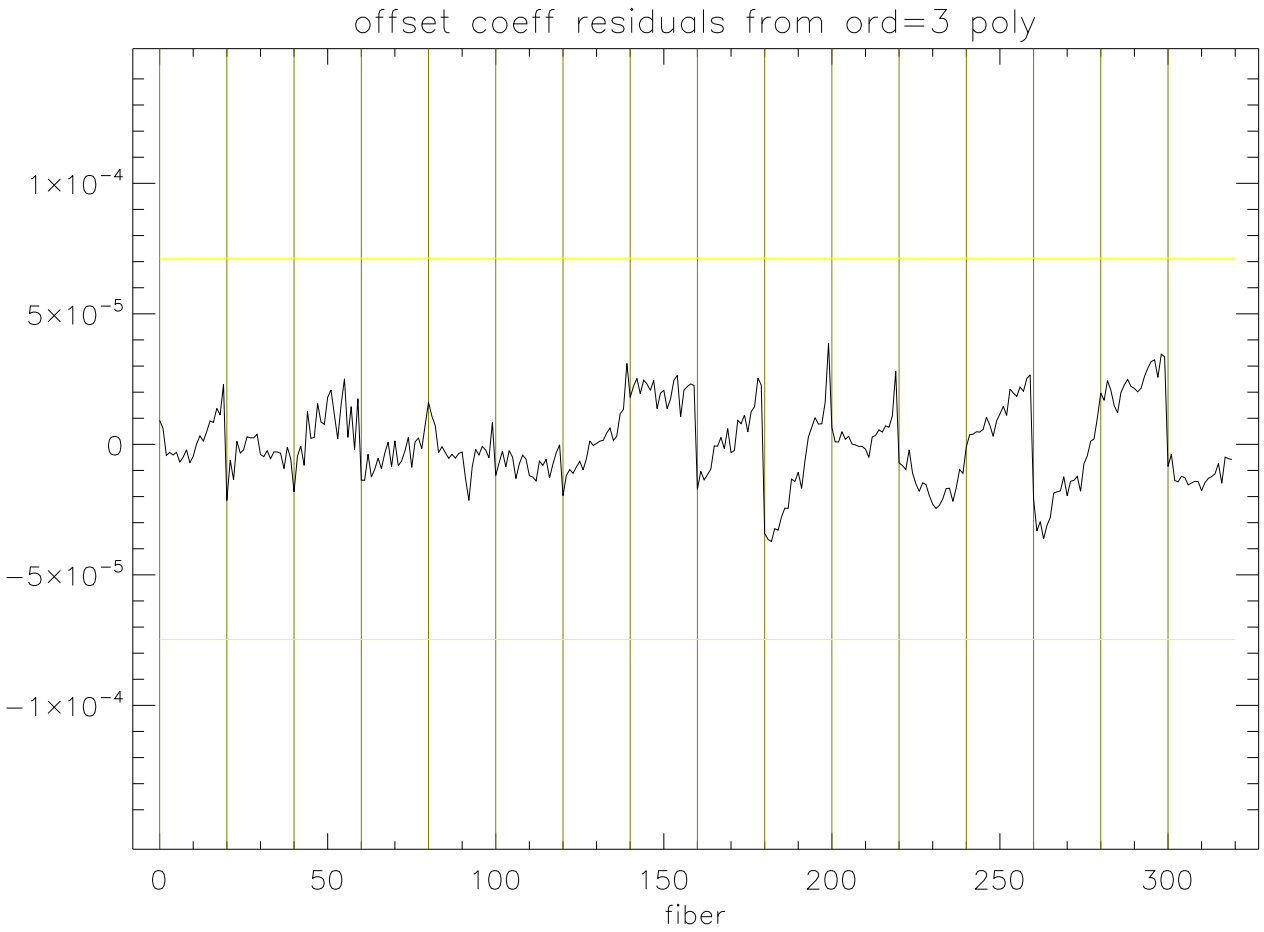

Number of sky fibers = 15
PLATE=2274 MJD=53726 sdR-b1-00035681.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

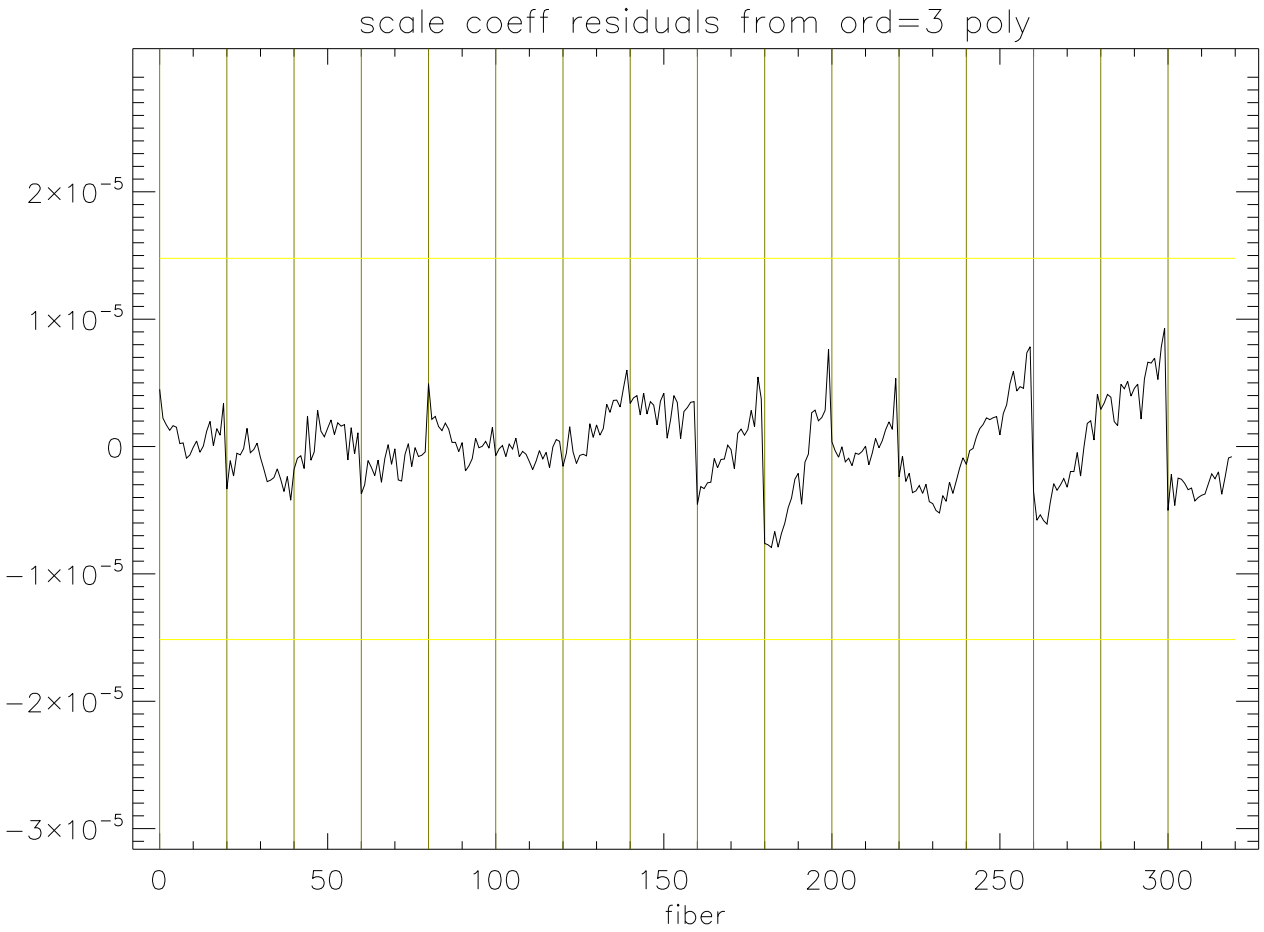

PLATE=2274 MJD=53726 sdR-b1-00035681.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 35.44 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

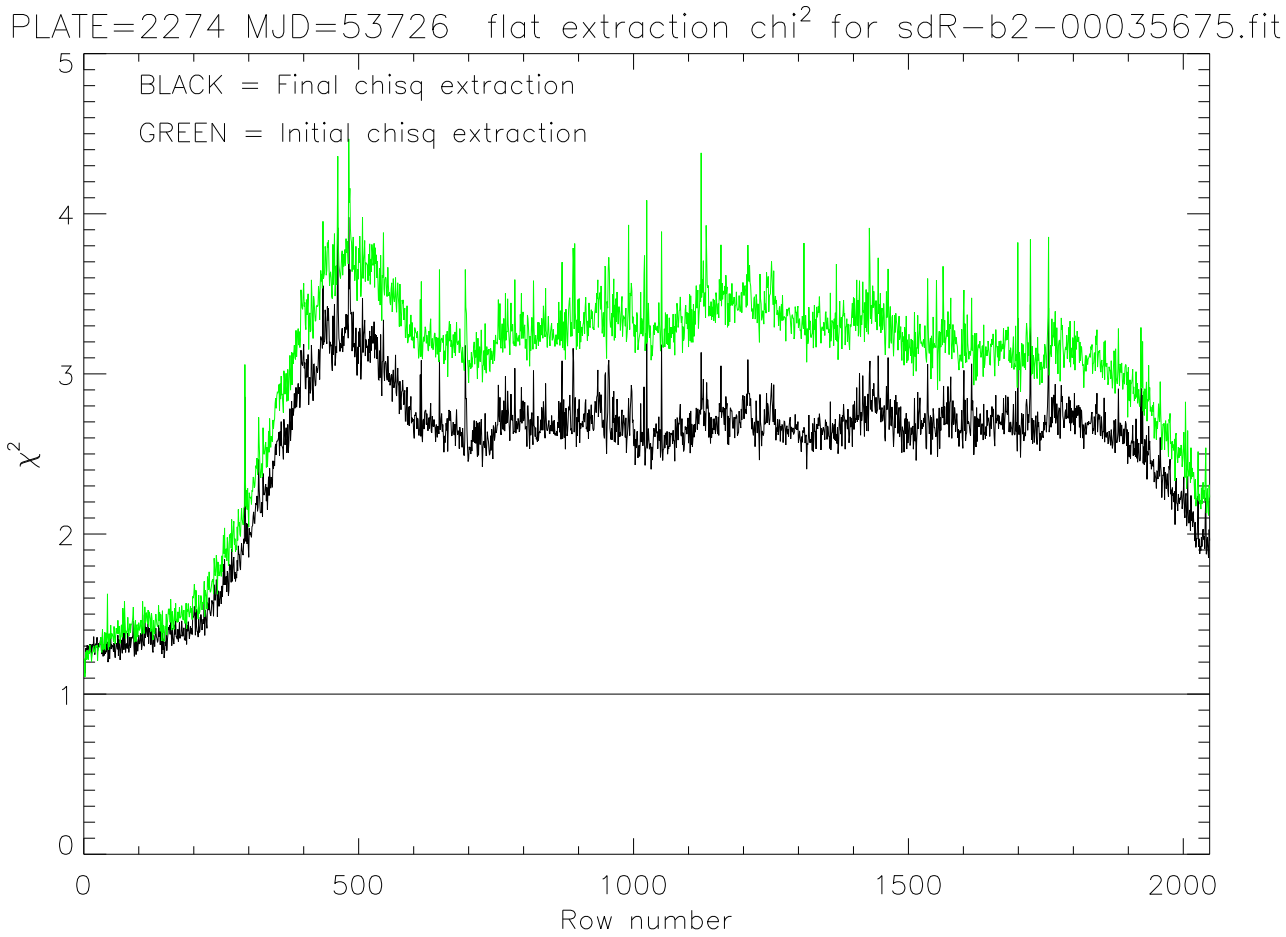

PLATE=2274 MJD=53726 sdR-b1-00035681.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.81 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

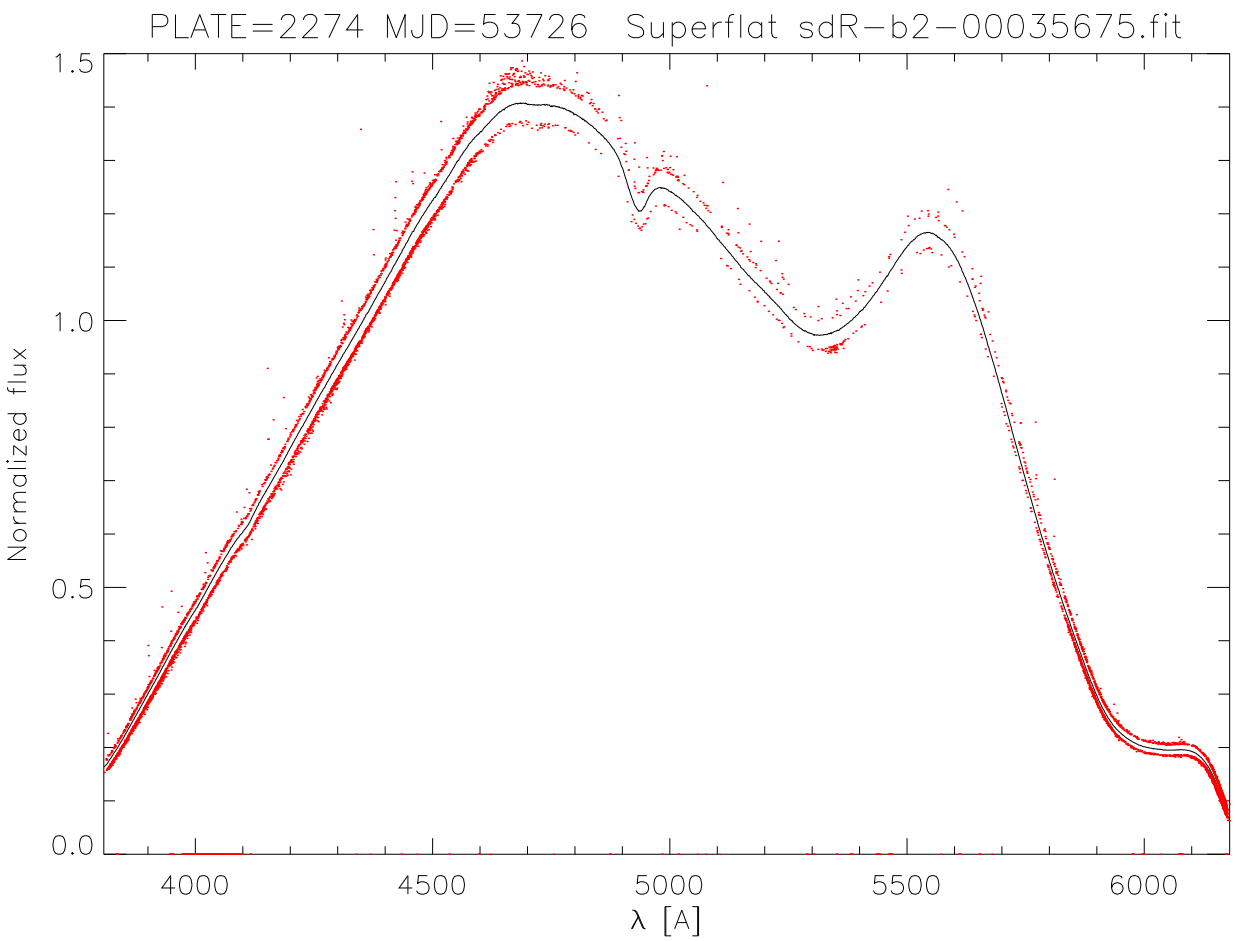

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

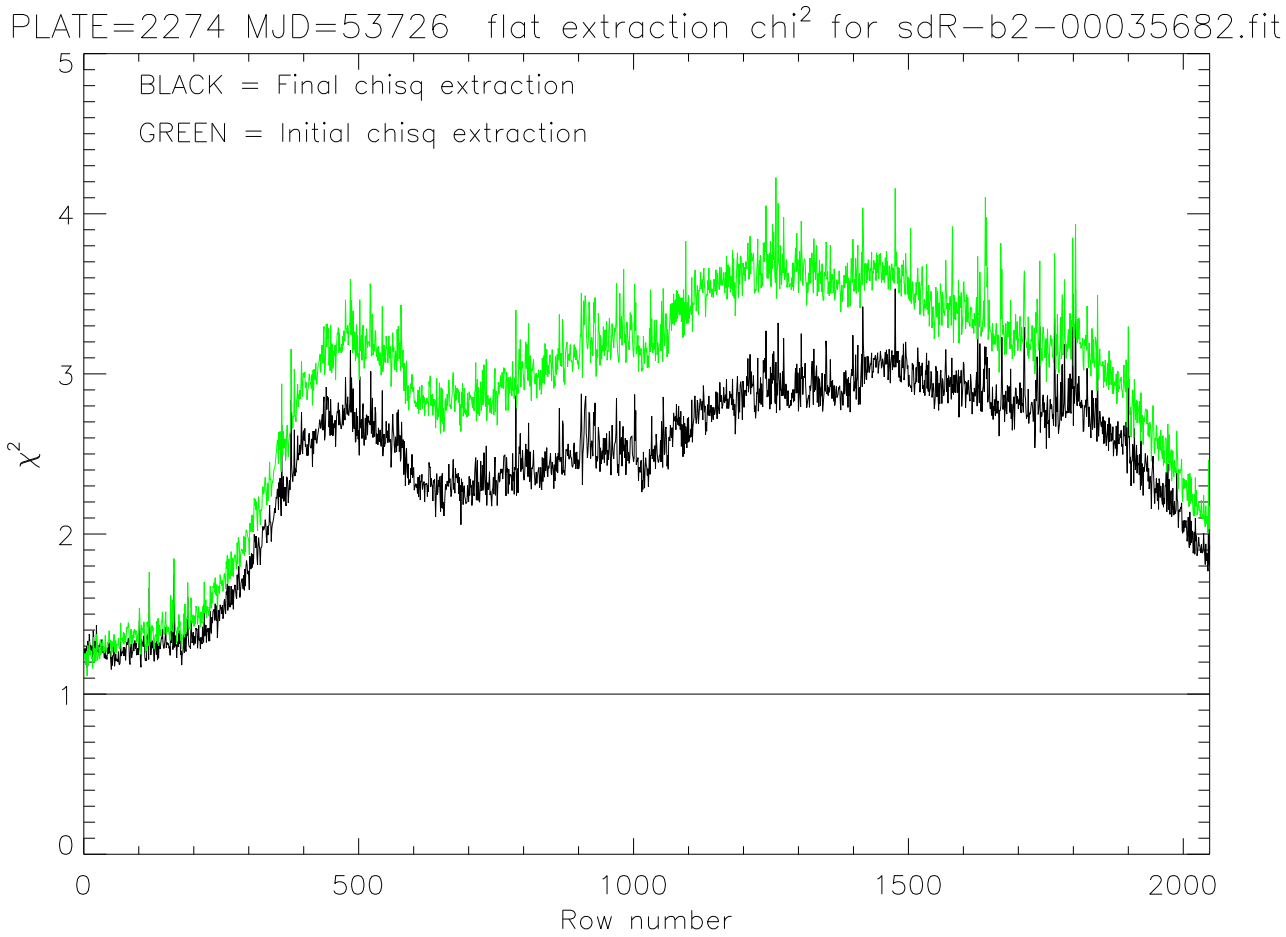

scale coeff residuals from ord=3 poly
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

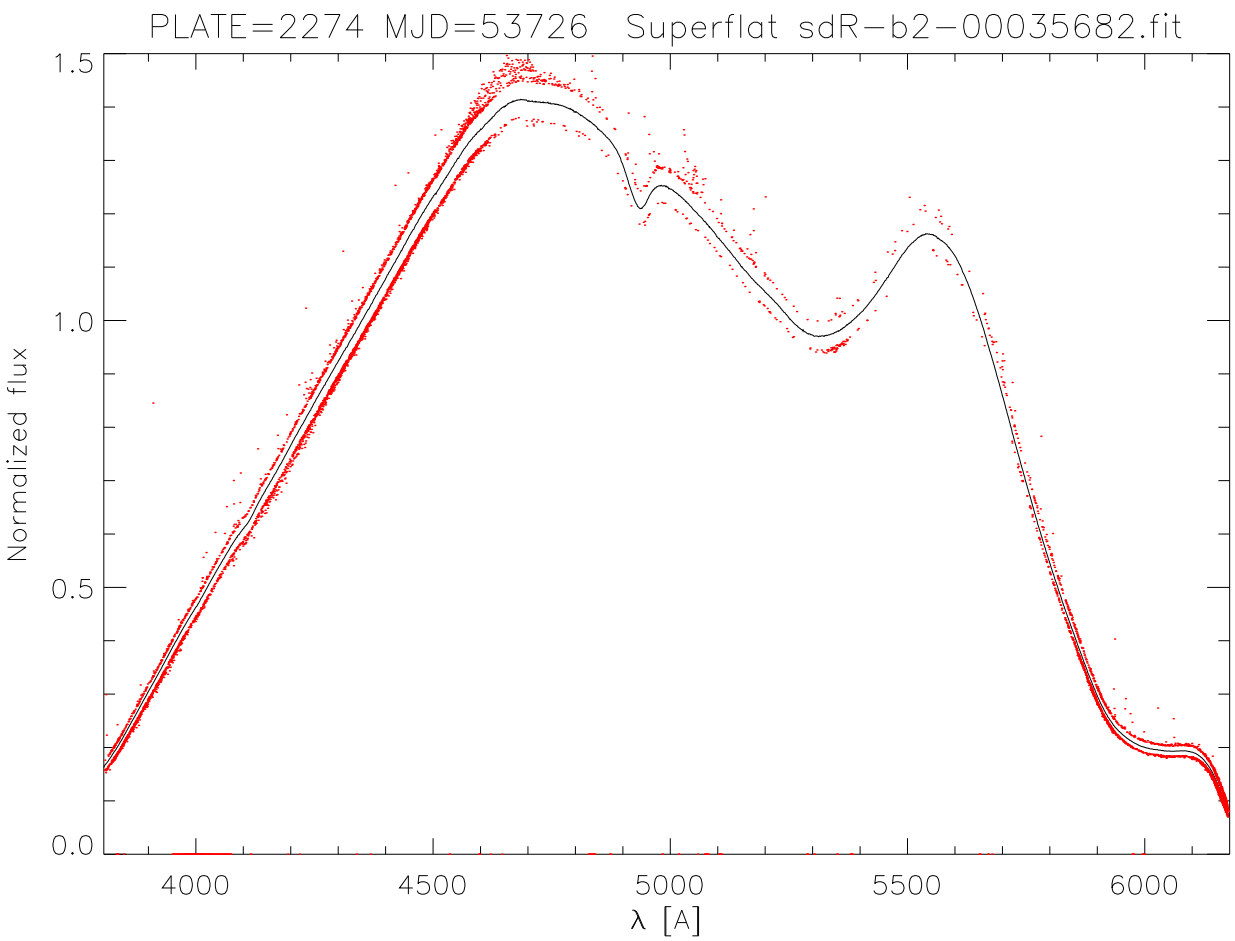

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

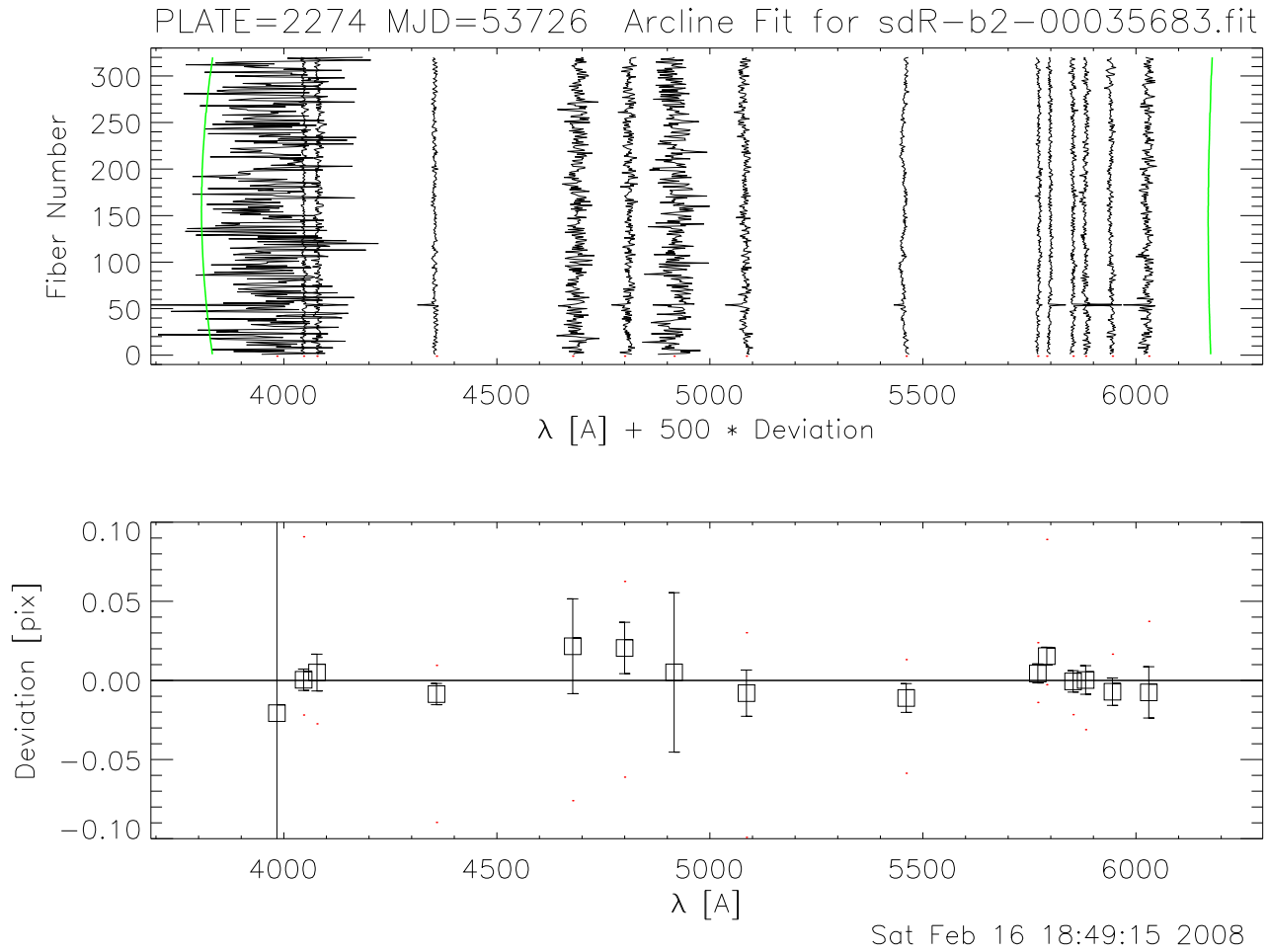

scale coeff residuals from ord=3 poly
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

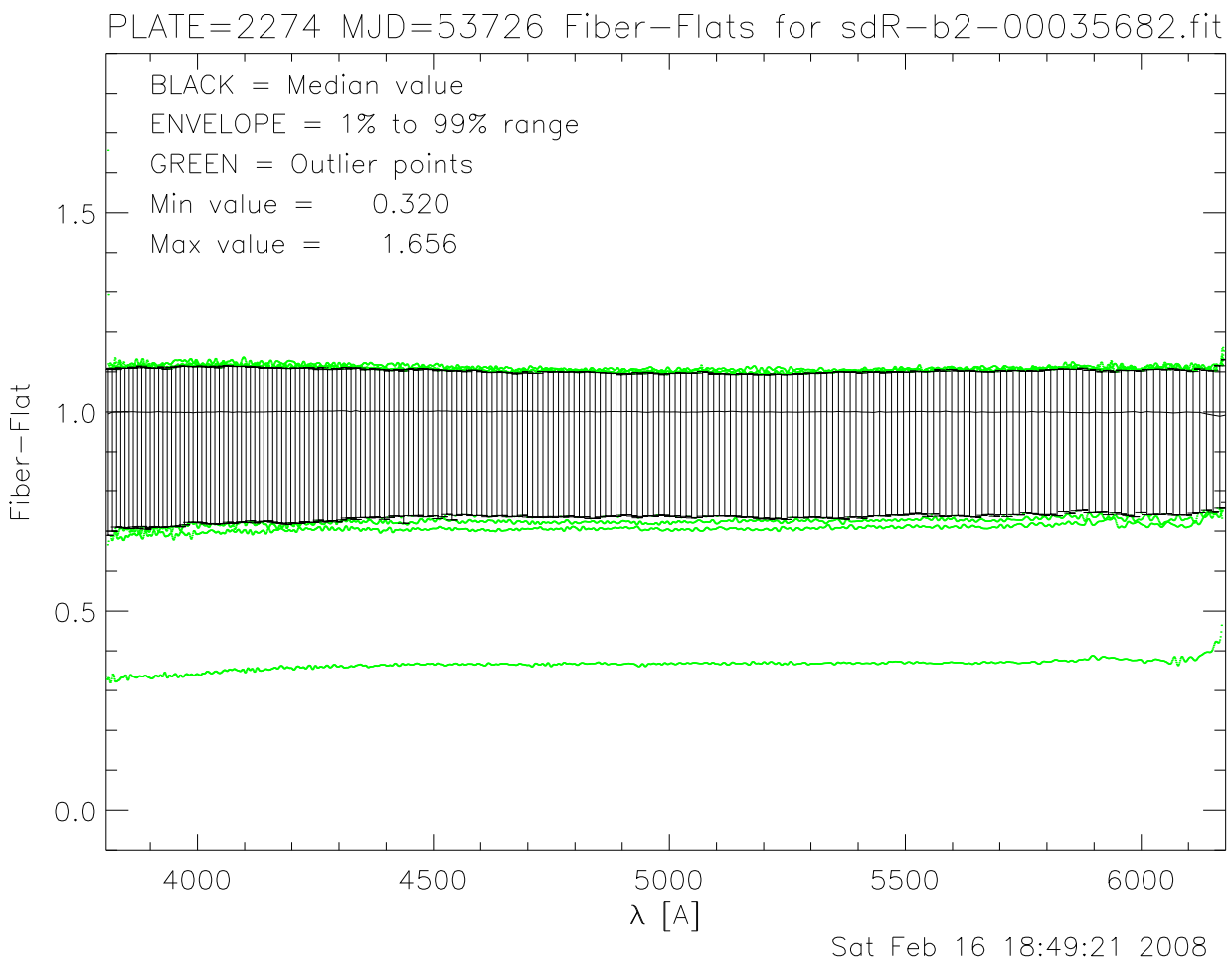

PLATE=2274 MJD=53726 flat extraction chi^2 for sdR−b2−00035675.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
0
500
1000
1500
2000

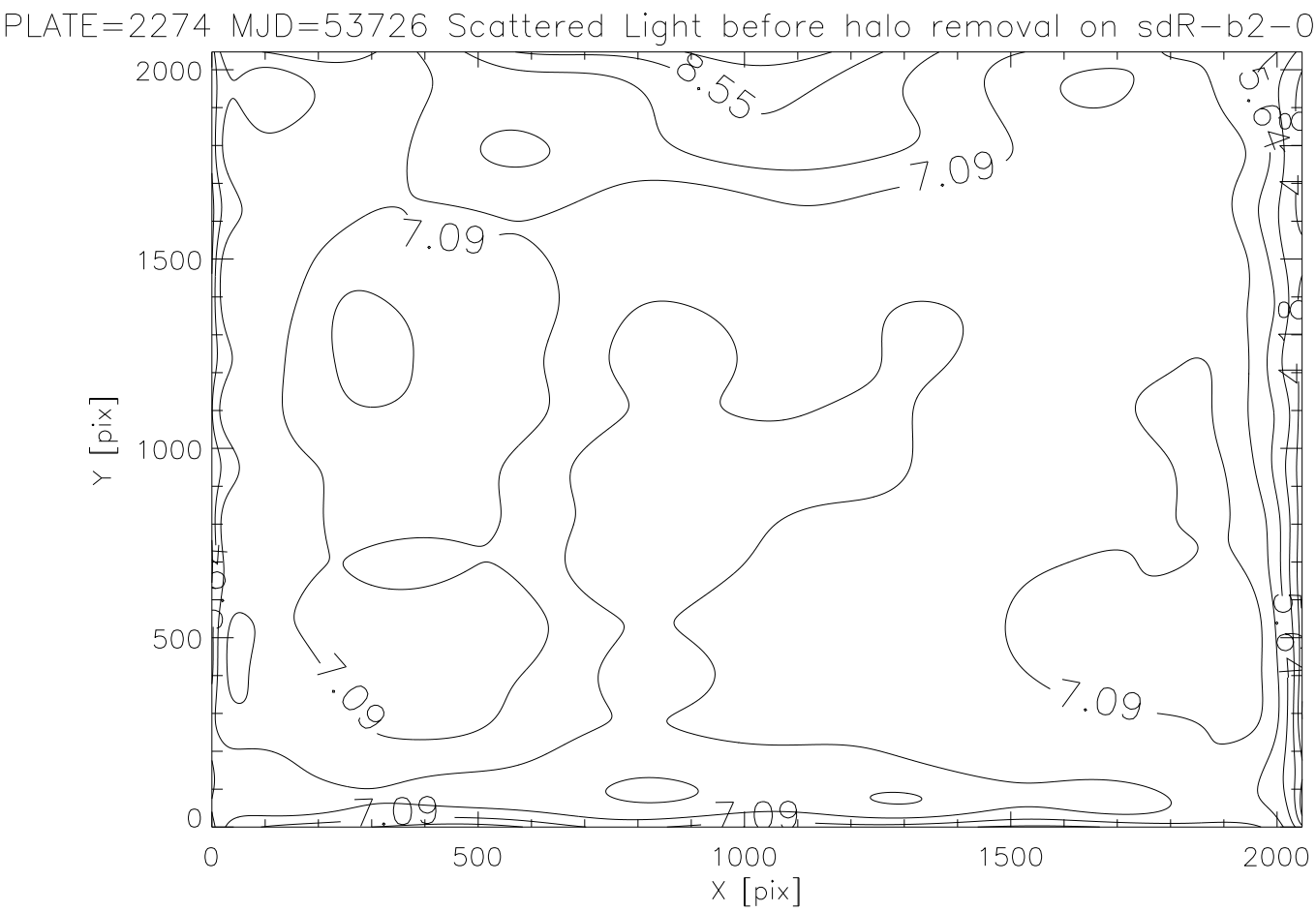

PLATE=2274 MJD=53726 Superflat sdR-b2-00035675.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

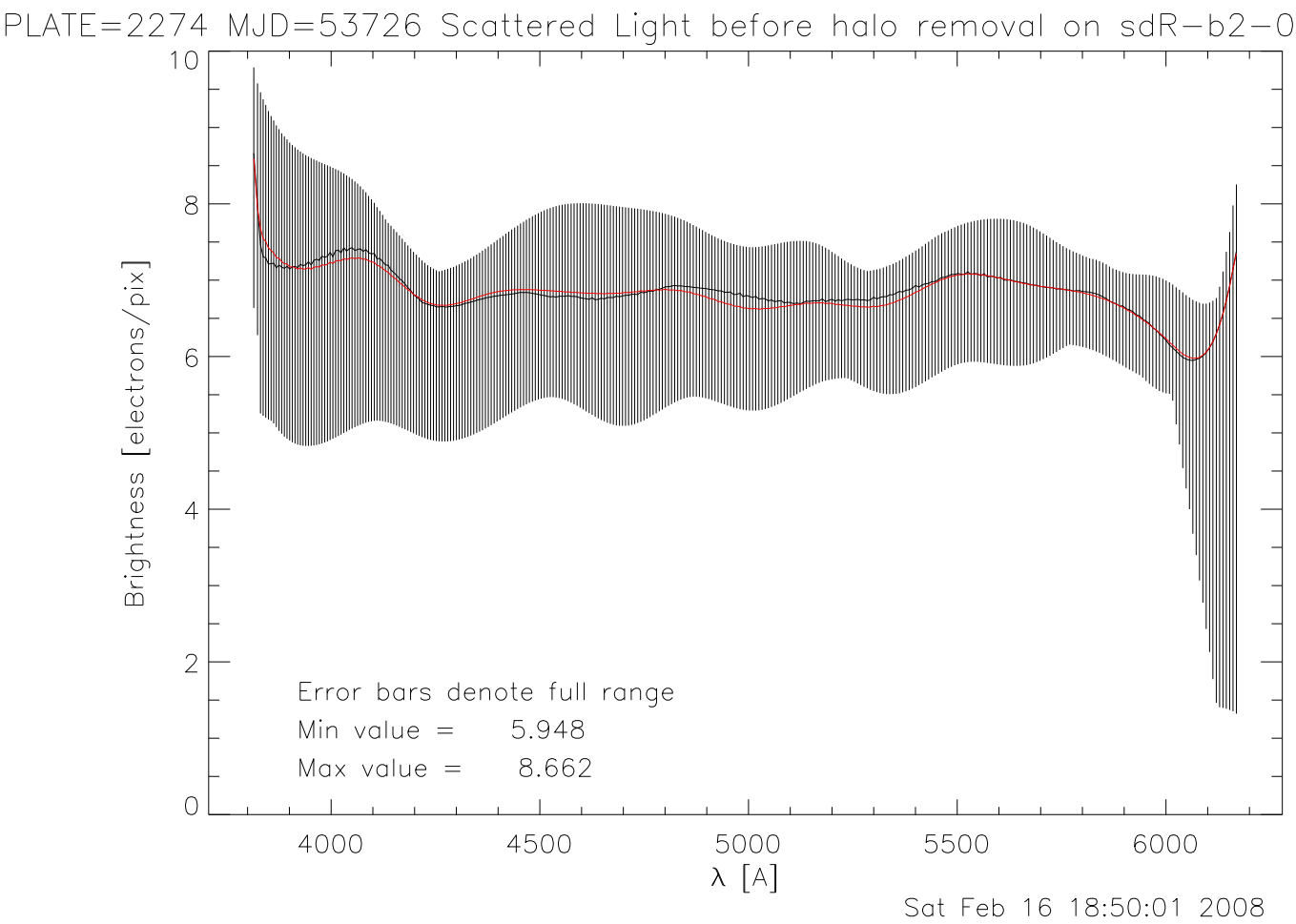

PLATE=2274 MJD=53726 flat extraction chi^2 for sdR−b2−00035682.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
0
500
1000
1500
2000

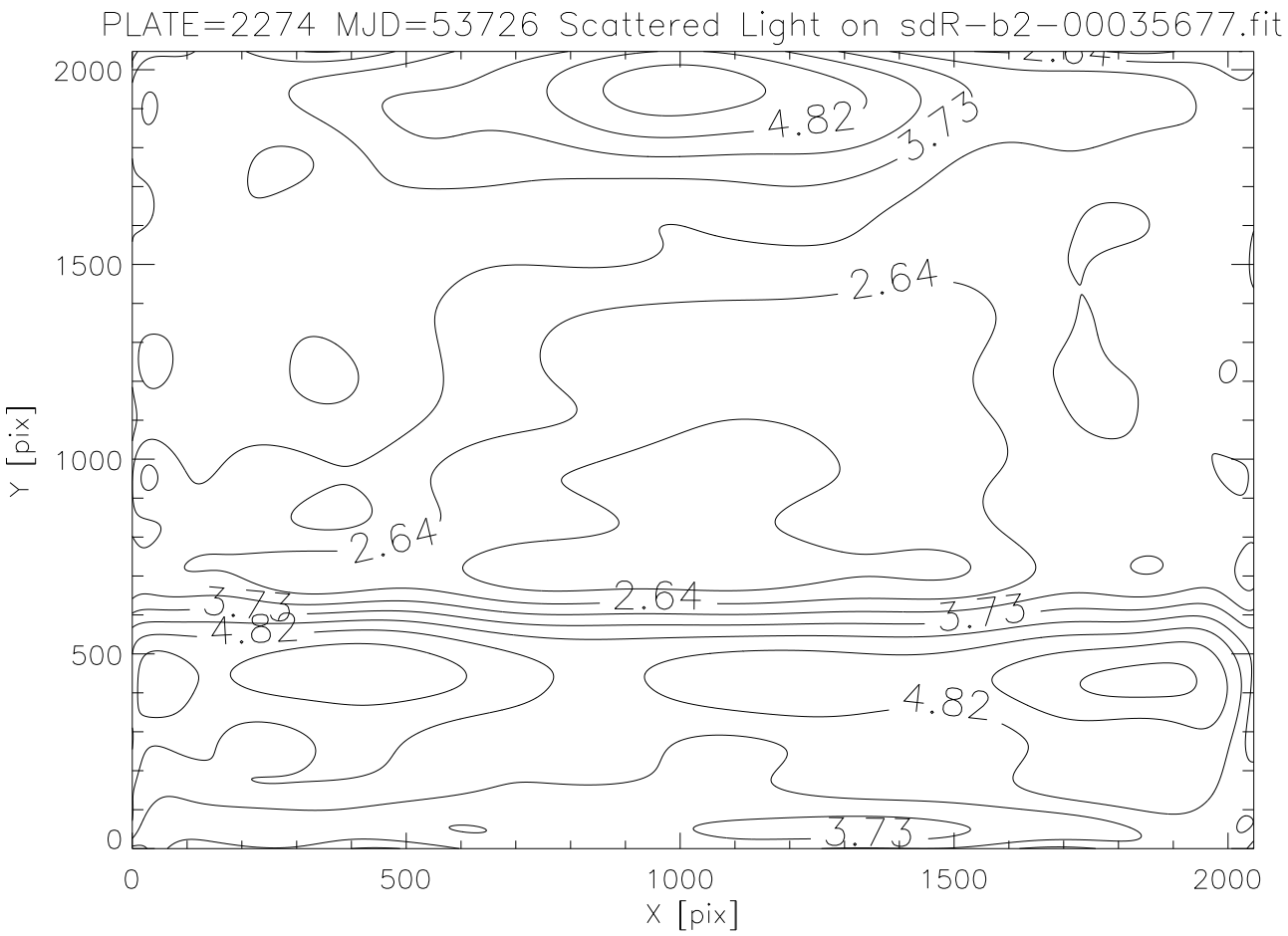

PLATE=2274 MJD=53726 Superflat sdR-b2-00035682.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

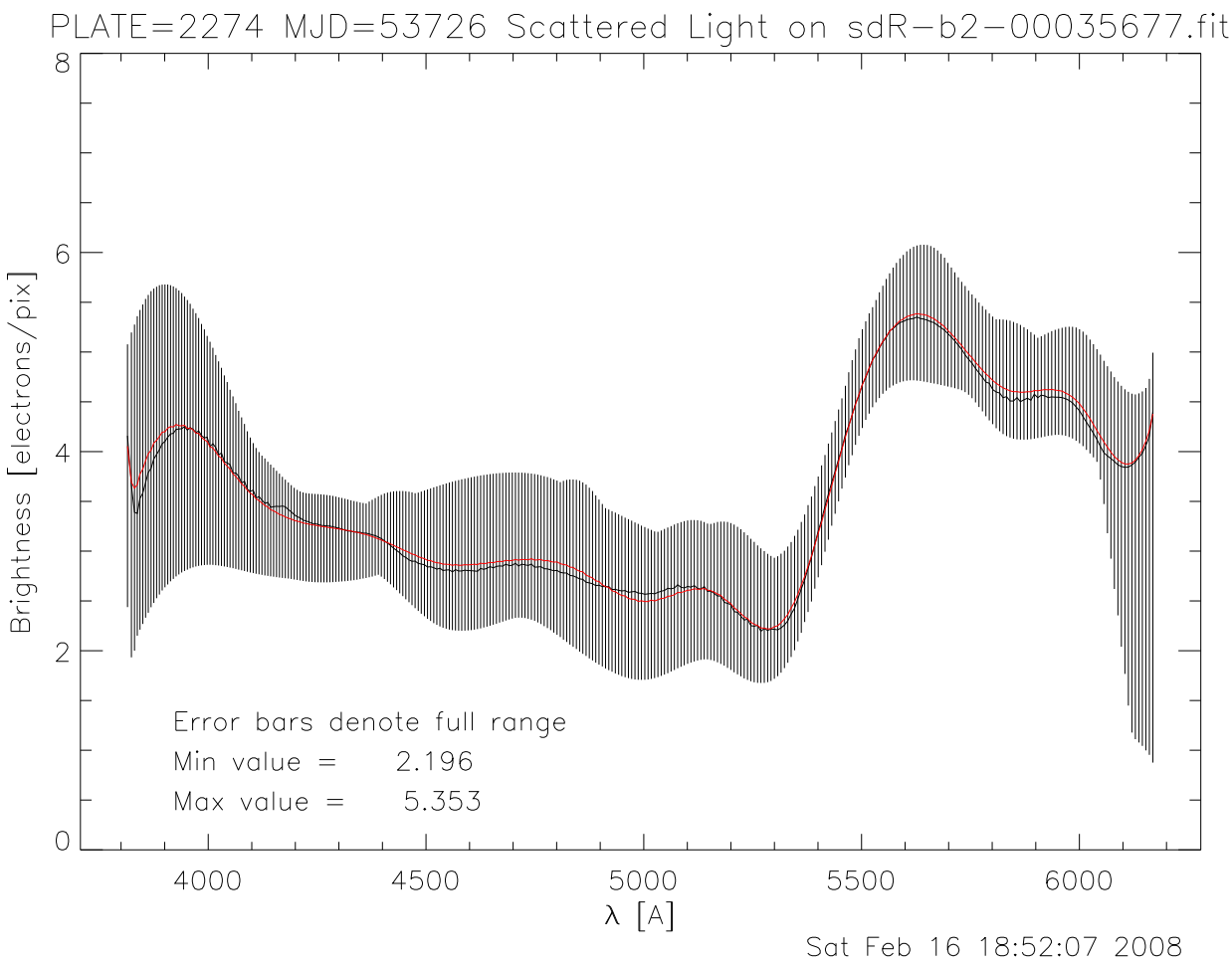

PLATE=2274 MJD=53726 Arcline Fit for sdR-b2-00035683.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 18:49:15 2008

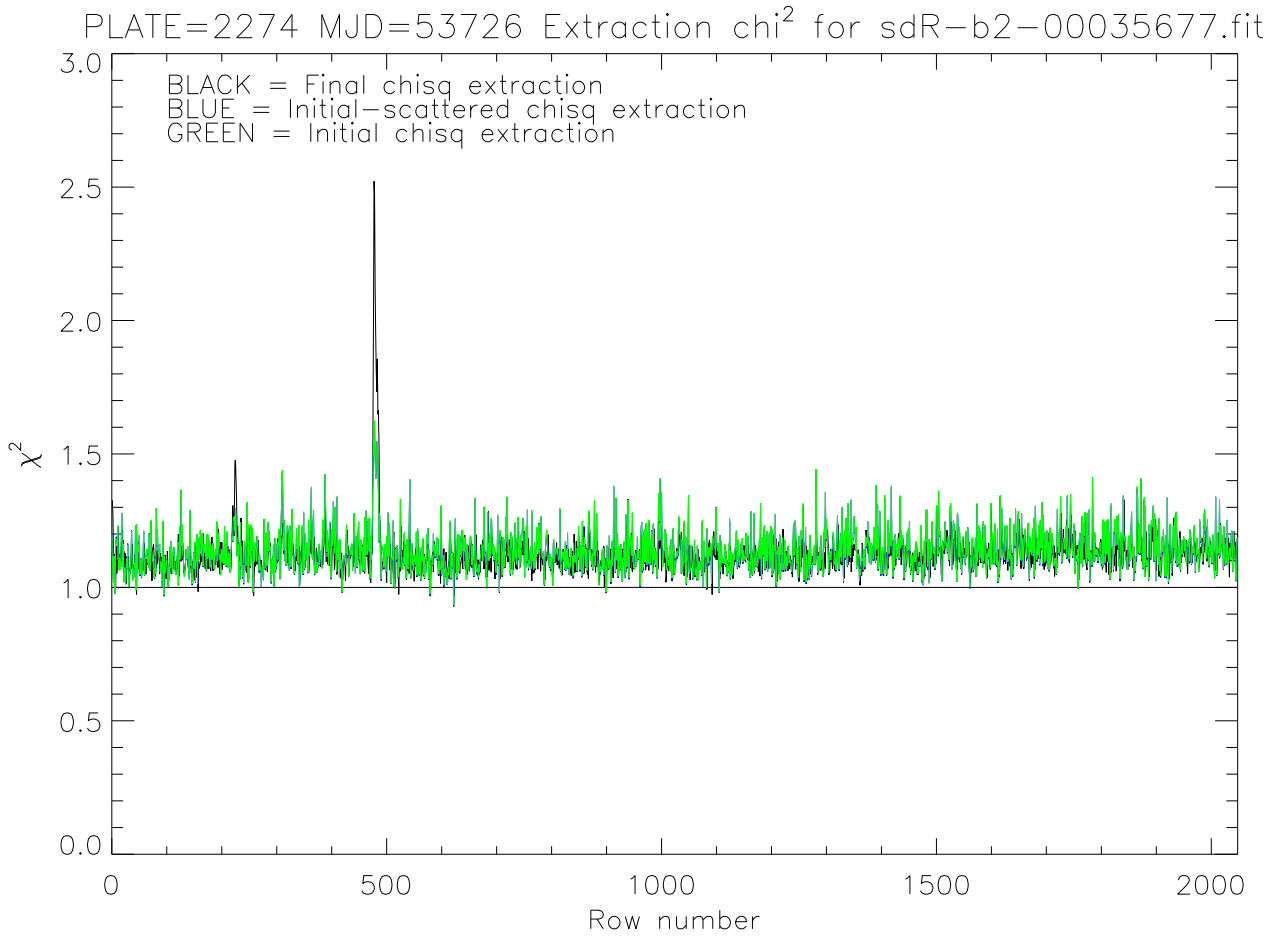

PLATE=2274 MJD=53726 Fiber-Flats for sdR-b2-00035682.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.320
Max value = 1.656
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 18:49:21 2008

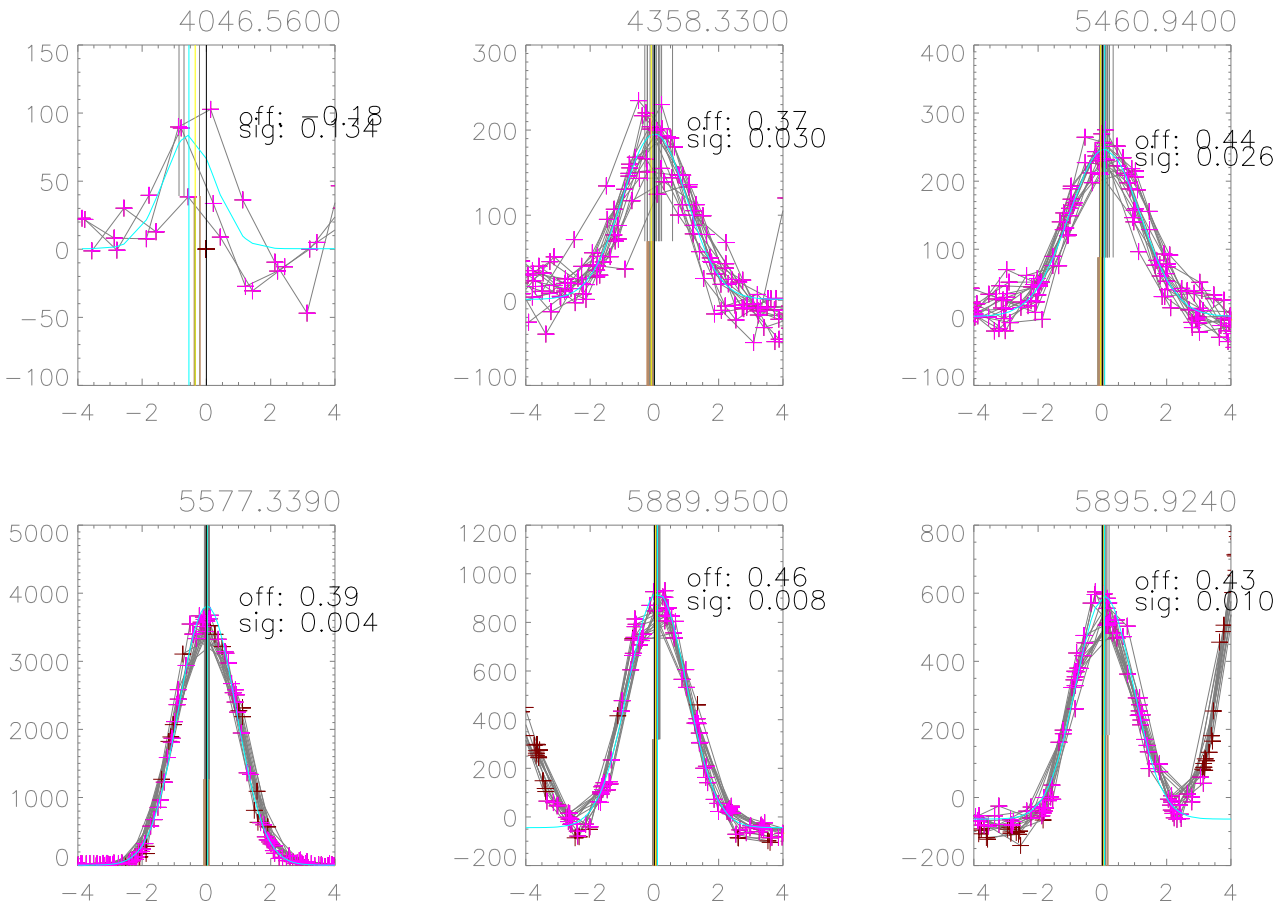

PLATE=2274 MJD=53726 Scattered Light before halo removal on sdR-b2-00035677.f
8.55
7.09
7.09
7.09
7.09
7.09
5.64
5.64
Y [pix]
X [pix]
0
500
1000
1500
2000

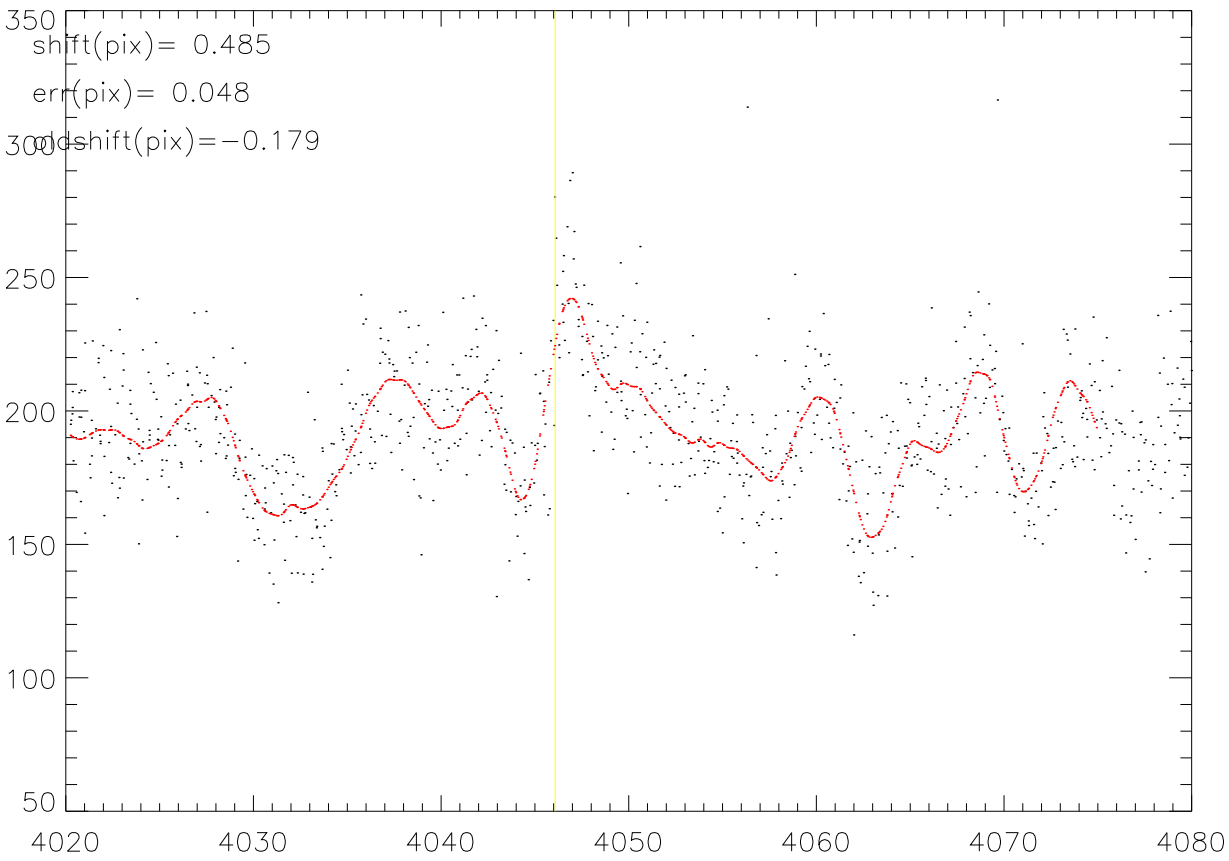

PLATE=2274 MJD=53726 Scattered Light before halo removal on sdR-b2-00035677.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.948
Max value = 8.662
Sat Feb 16 18:50:01 2008

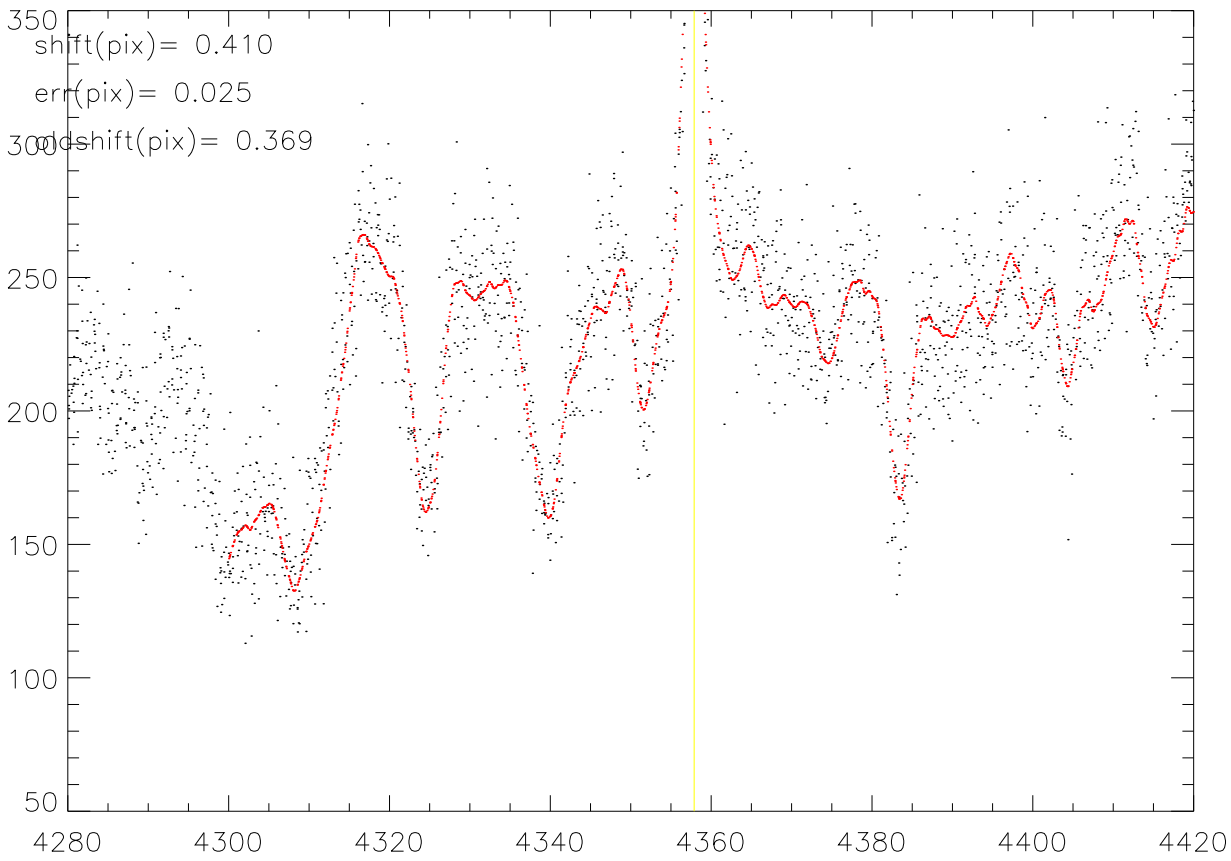

PLATE=2274 MJD=53726 Scattered Light on sdR-b2-00035677.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
4.82
3.73
2.64

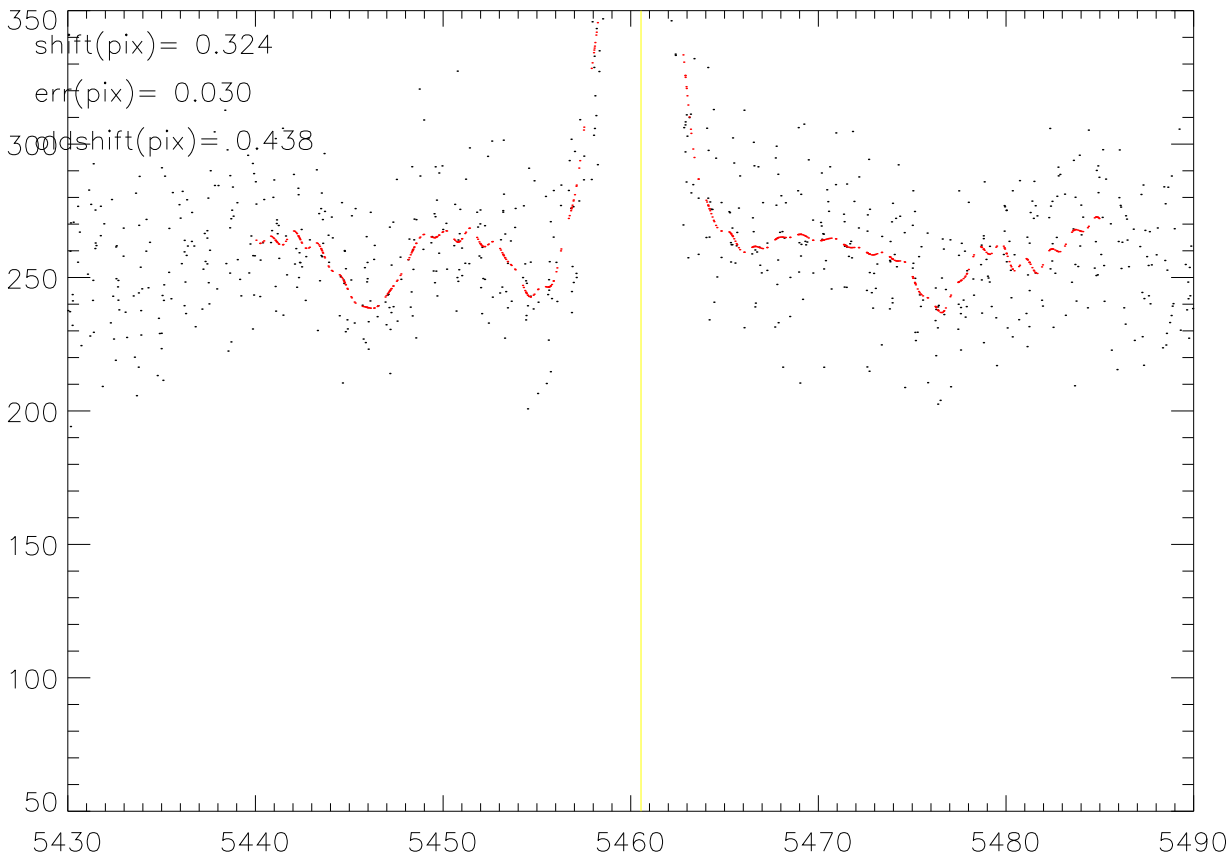

PLATE=2274 MJD=53726 Scattered Light on sdR-b2-00035677.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 2.196
Max value = 5.353
Sat Feb 16 18:52:07 2008

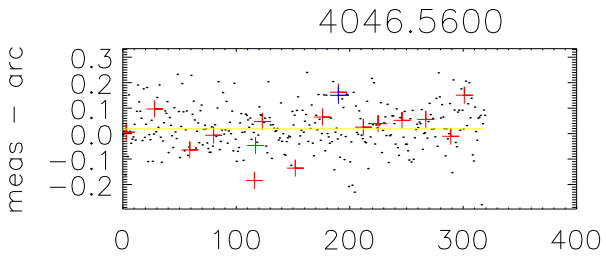

PLATE=2274 MJD=53726 Extraction chi^2 for sdR-b2-00035677.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

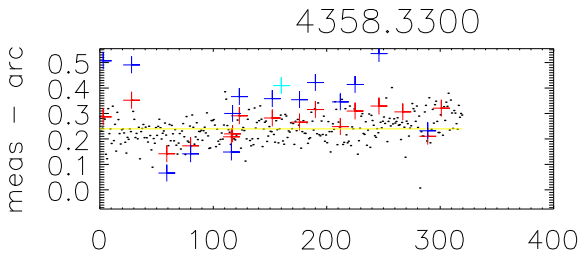

4046.5600
off: −0.18
sig: 0.134
4358.3300
off: 0.37
sig: 0.030
5460.9400
off: 0.44
sig: 0.026
5577.3390
off: 0.39
sig: 0.004
5889.9500
off: 0.46
sig: 0.008
5895.9240
off: 0.43
sig: 0.010

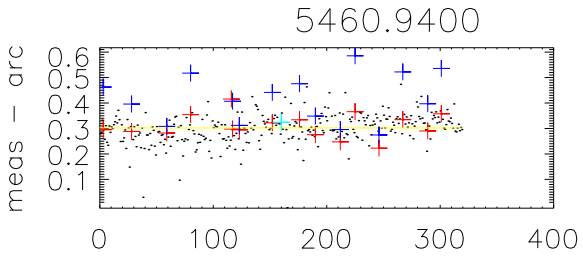

shift(pix)= 0.485
err(pix)= 0.048
oldshift(pix)=-0.179
350
300
250
200
150
100
50
4020
4030
4040
4050
4060
4070
4080

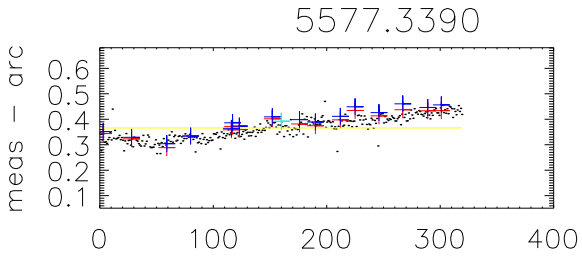

shift(pix)= 0.410
err(pix)= 0.025
oldshift(pix)= 0.369
350
300
250
200
150
100
50
4280
4300
4320
4340
4360
4380
4400
4420

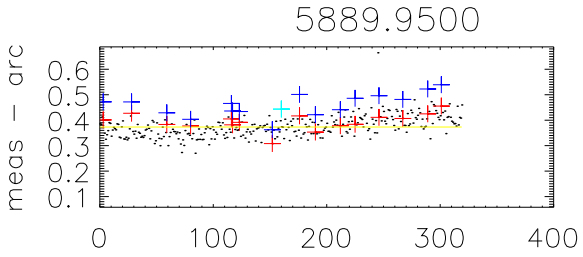

shift(pix)= 0.324
err(pix)= 0.030
oldshift(pix)= 0.438
350
300
250
200
150
100
50
5430
5440
5450
5460
5470
5480
5490

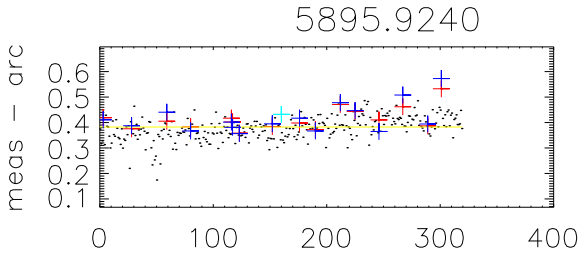

4046.5600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

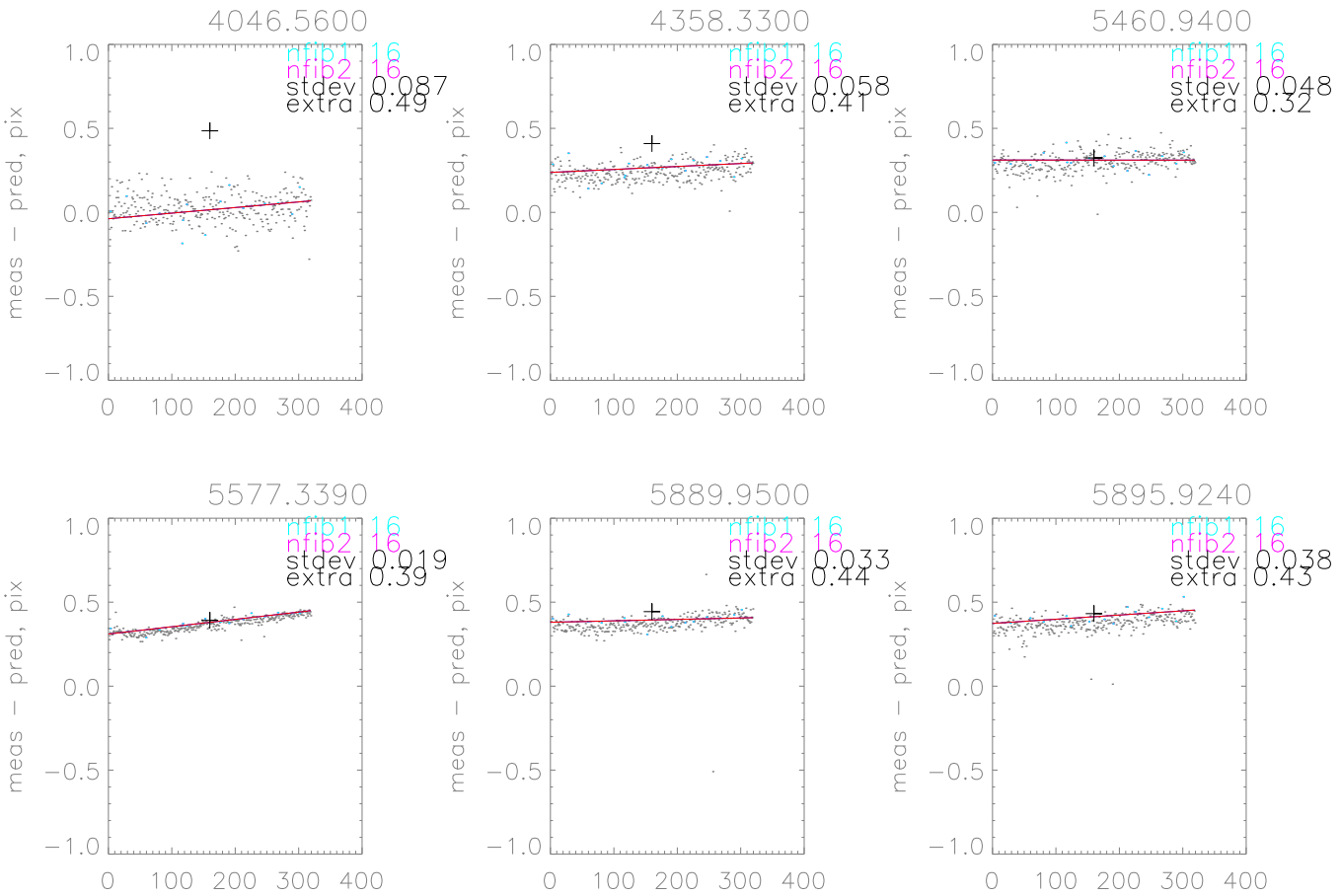

4358.3300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

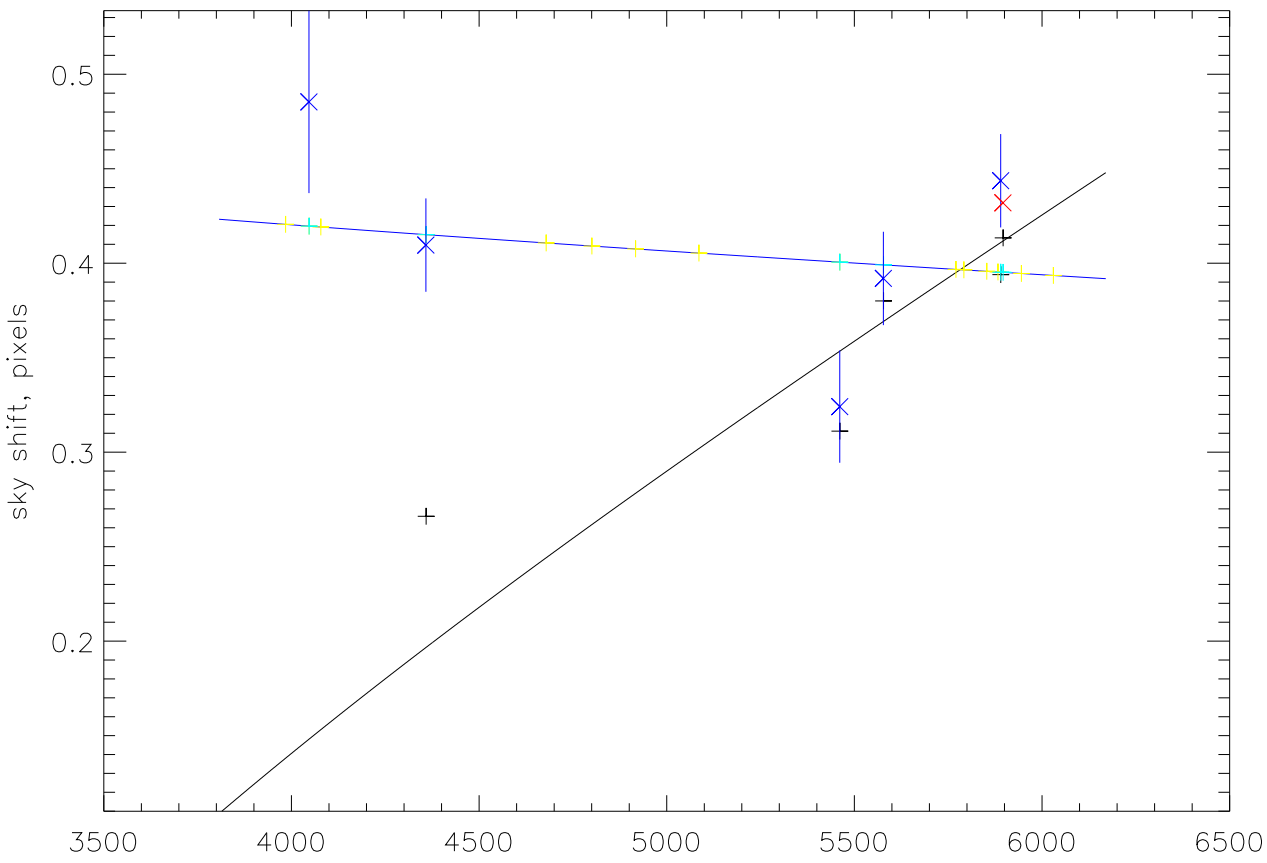

5460.9400
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

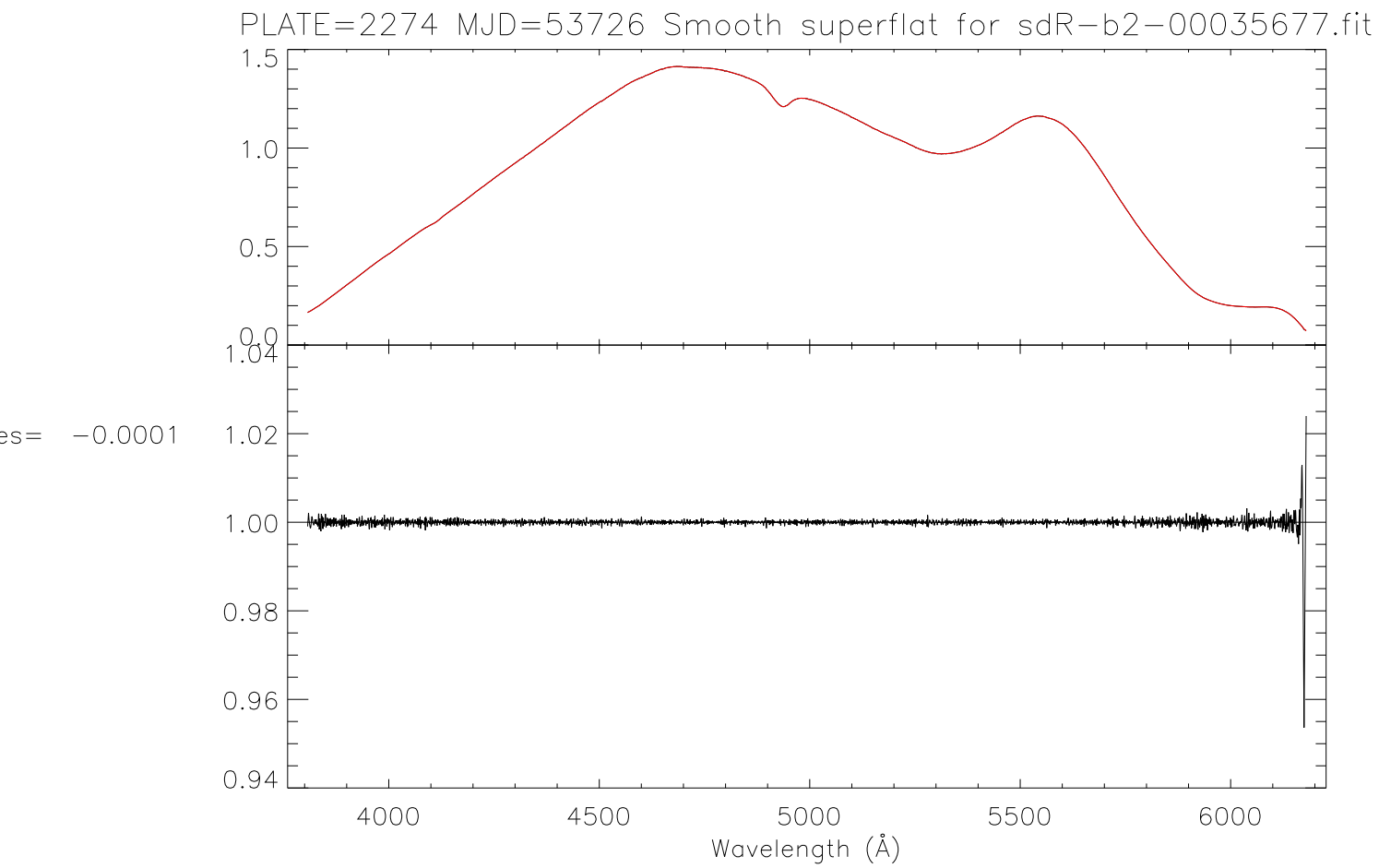

5577.3390
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400


5889.9500
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

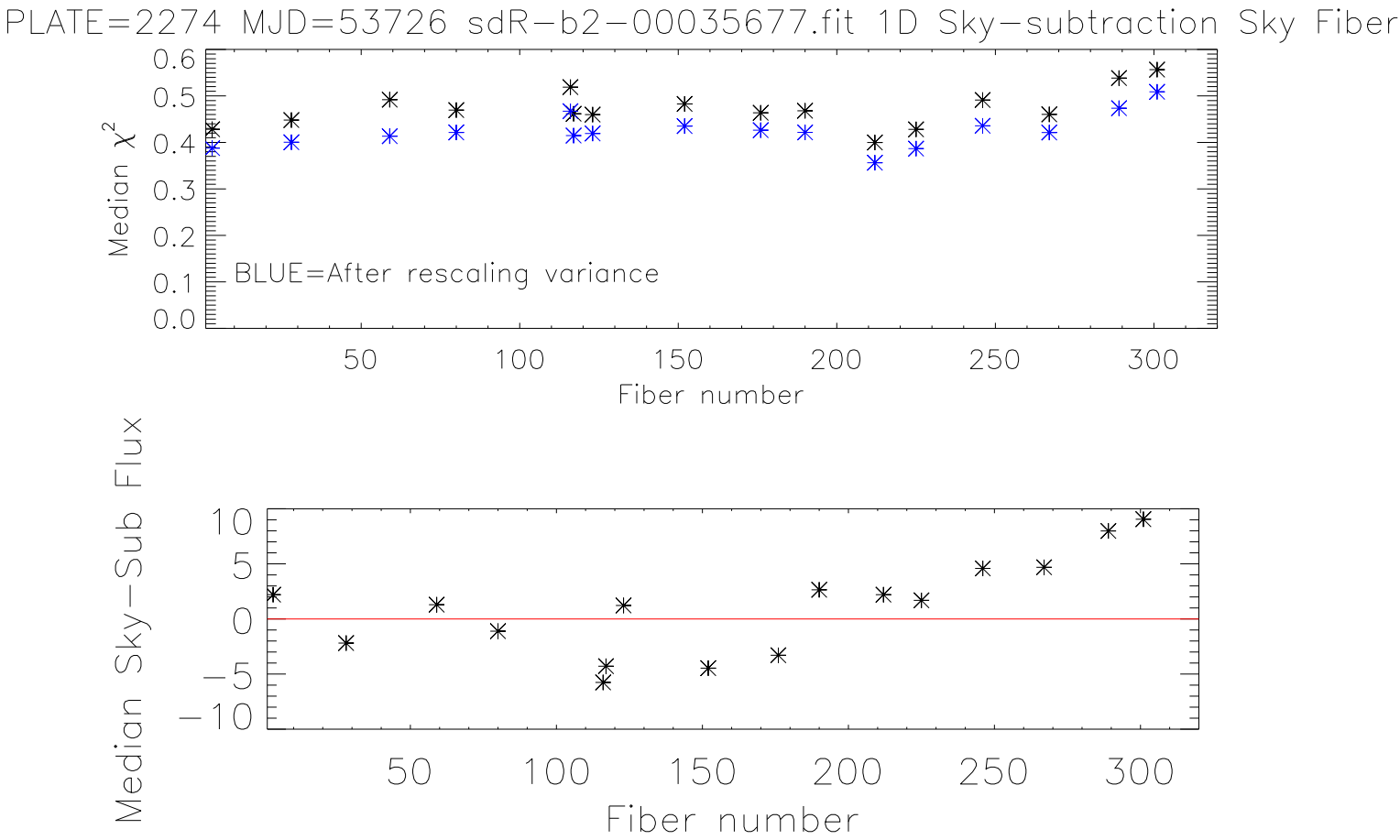

5895.9240
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

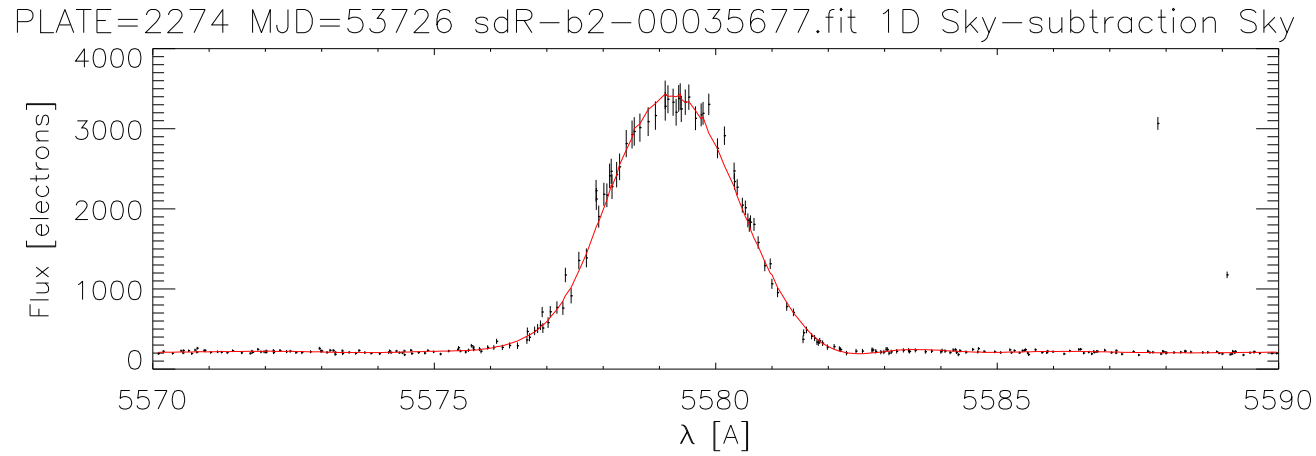

4046.5600
nfib1 16
nfib2 16
stdev 0.087
extra 0.49
4358.3300
nfib1 16
nfib2 16
stdev 0.058
extra 0.41
5460.9400
nfib1 16
nfib2 16
stdev 0.048
extra 0.32
5577.3390
nfib1 16
nfib2 16
stdev 0.019
extra 0.39
5889.9500
nfib1 16
nfib2 16
stdev 0.033
extra 0.44
5895.9240
nfib1 16
nfib2 16
stdev 0.038
extra 0.43
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

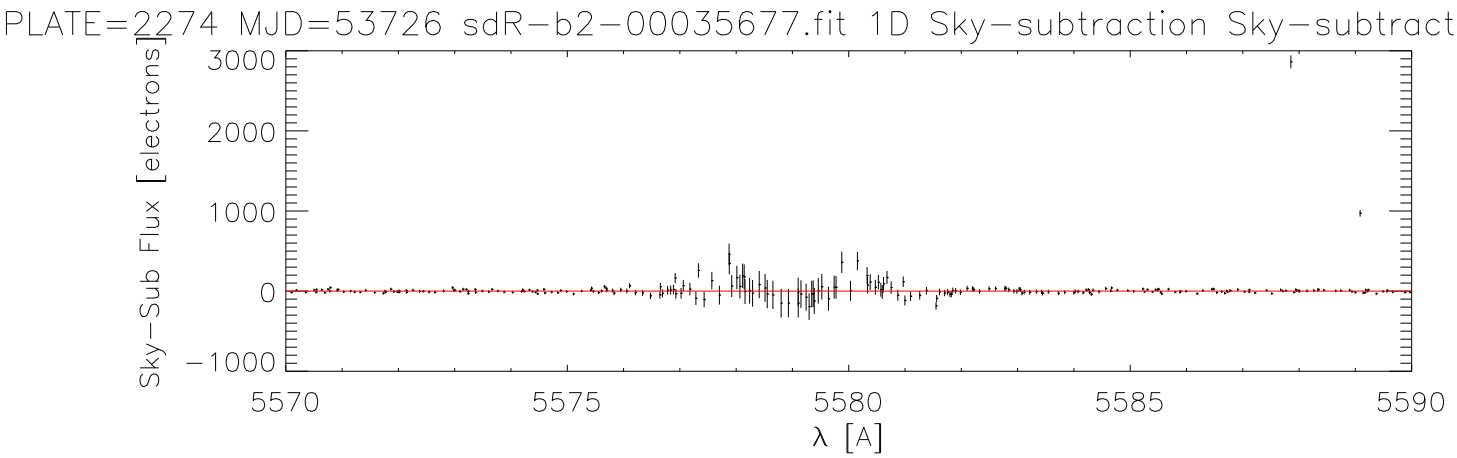

sky shift, pixels
0.5
0.4
0.3
0.2
3500
4000
4500
5000
5500
6000
6500

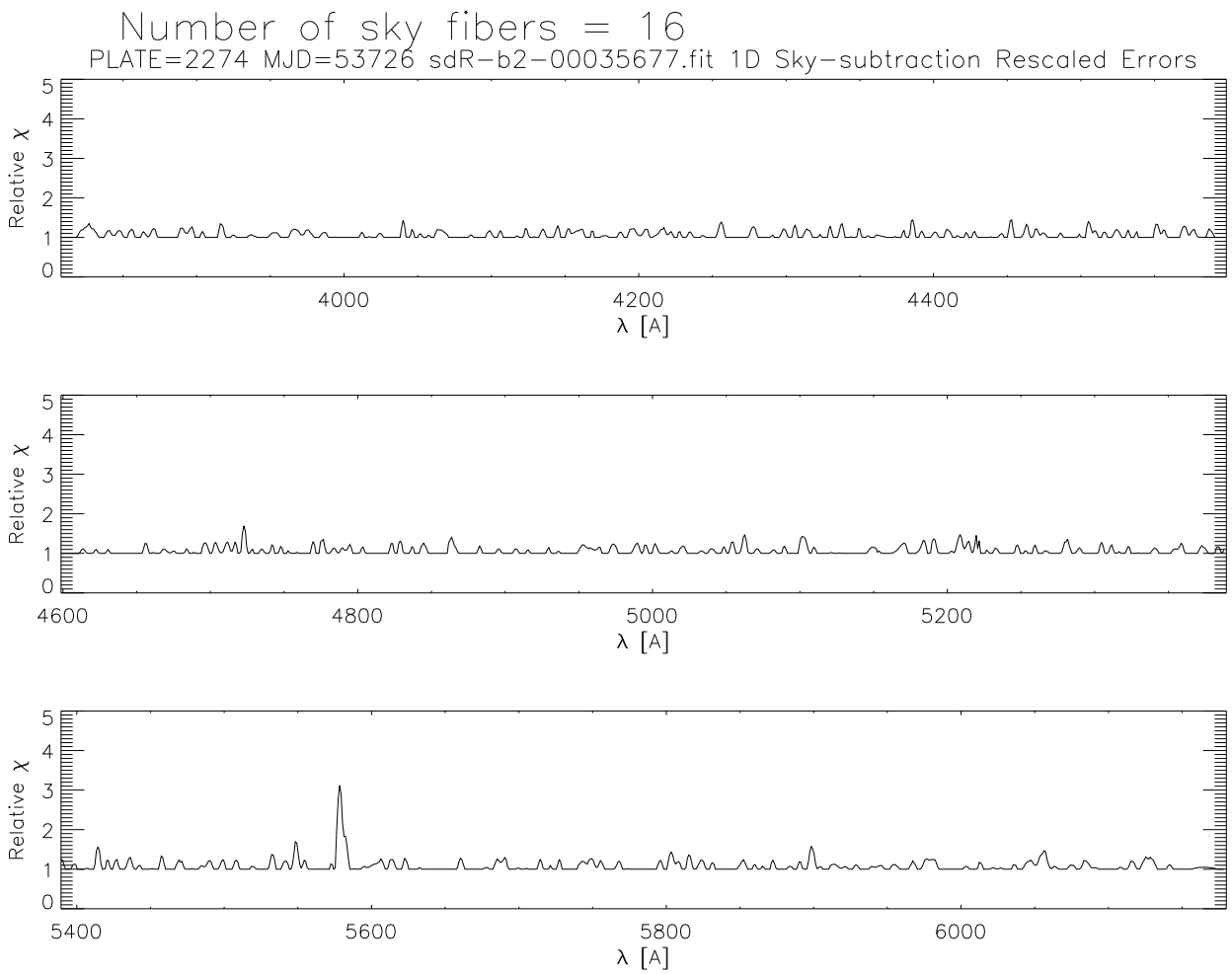

PLATE=2274 MJD=53726 Smooth superflat for sdR-b2-00035677.fit
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
0.94
4000
4500
5000
5500
6000
Wavelength (Å)

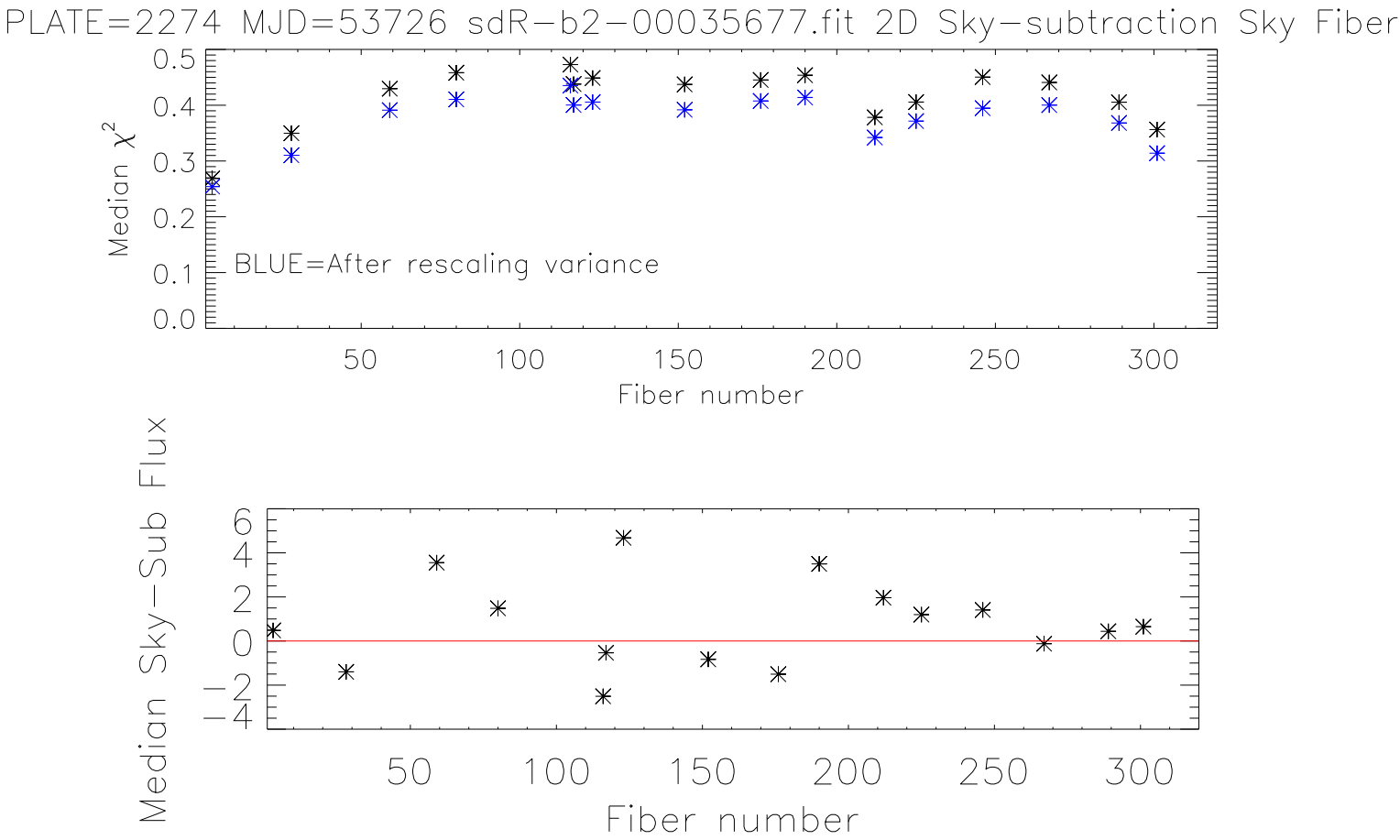
es= −0.0001

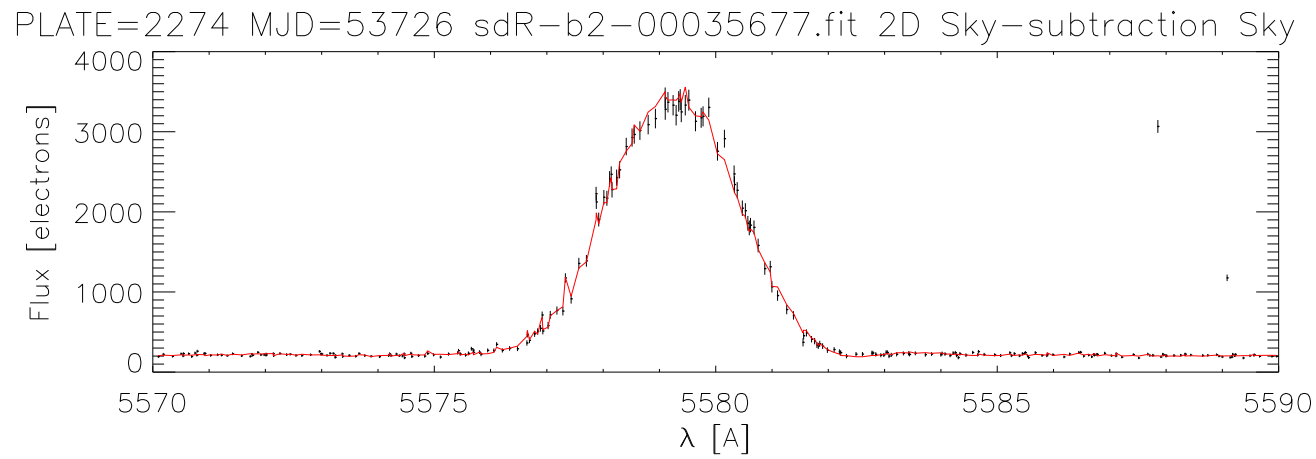

PLATE=2274 MJD=53726 sdR-b2-00035677.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

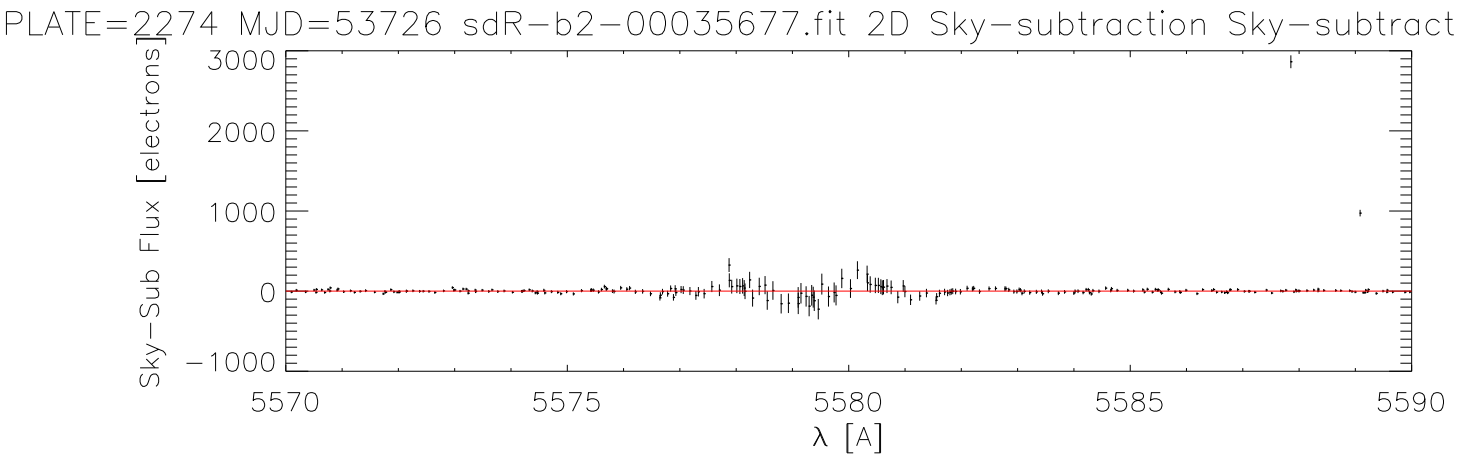

PLATE=2274 MJD=53726 sdR-b2-00035677.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

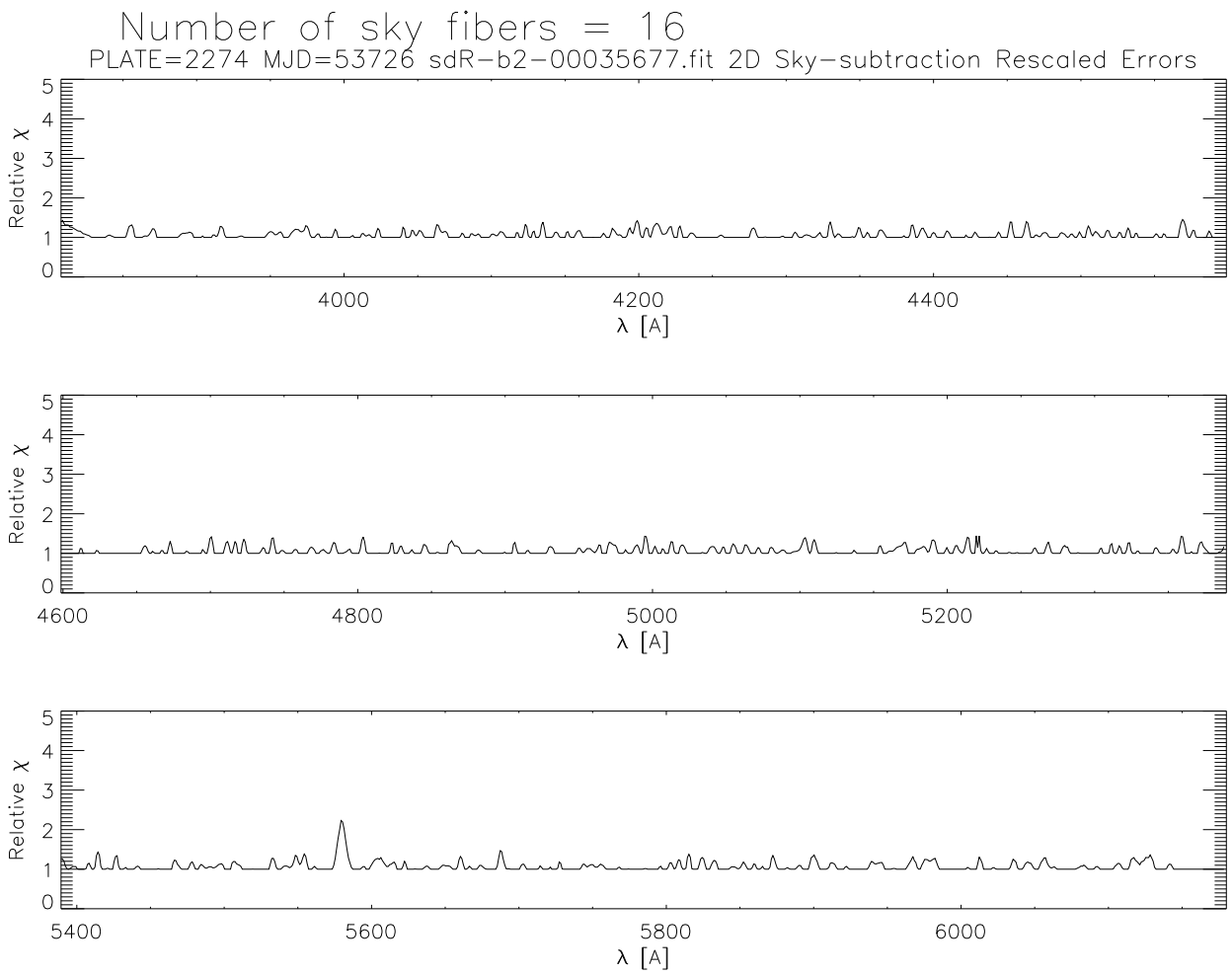

PLATE=2274 MJD=53726 sdR-b2-00035677.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
3000
2000
1000
0
-1000
5570
5575
5580
5585
5590
λ [A]

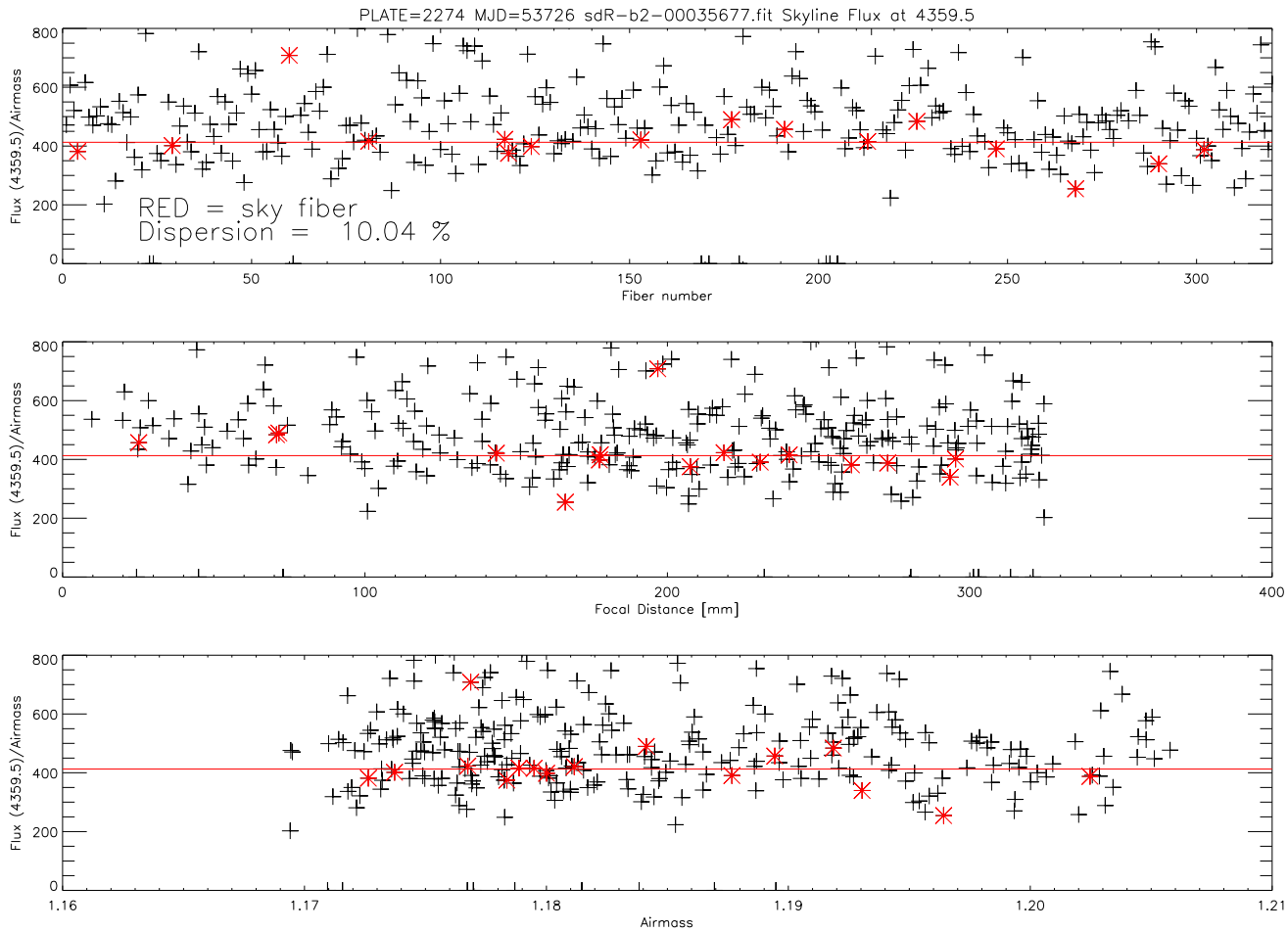

Number of sky fibers = 16
PLATE=2274 MJD=53726 sdR-b2-00035677.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

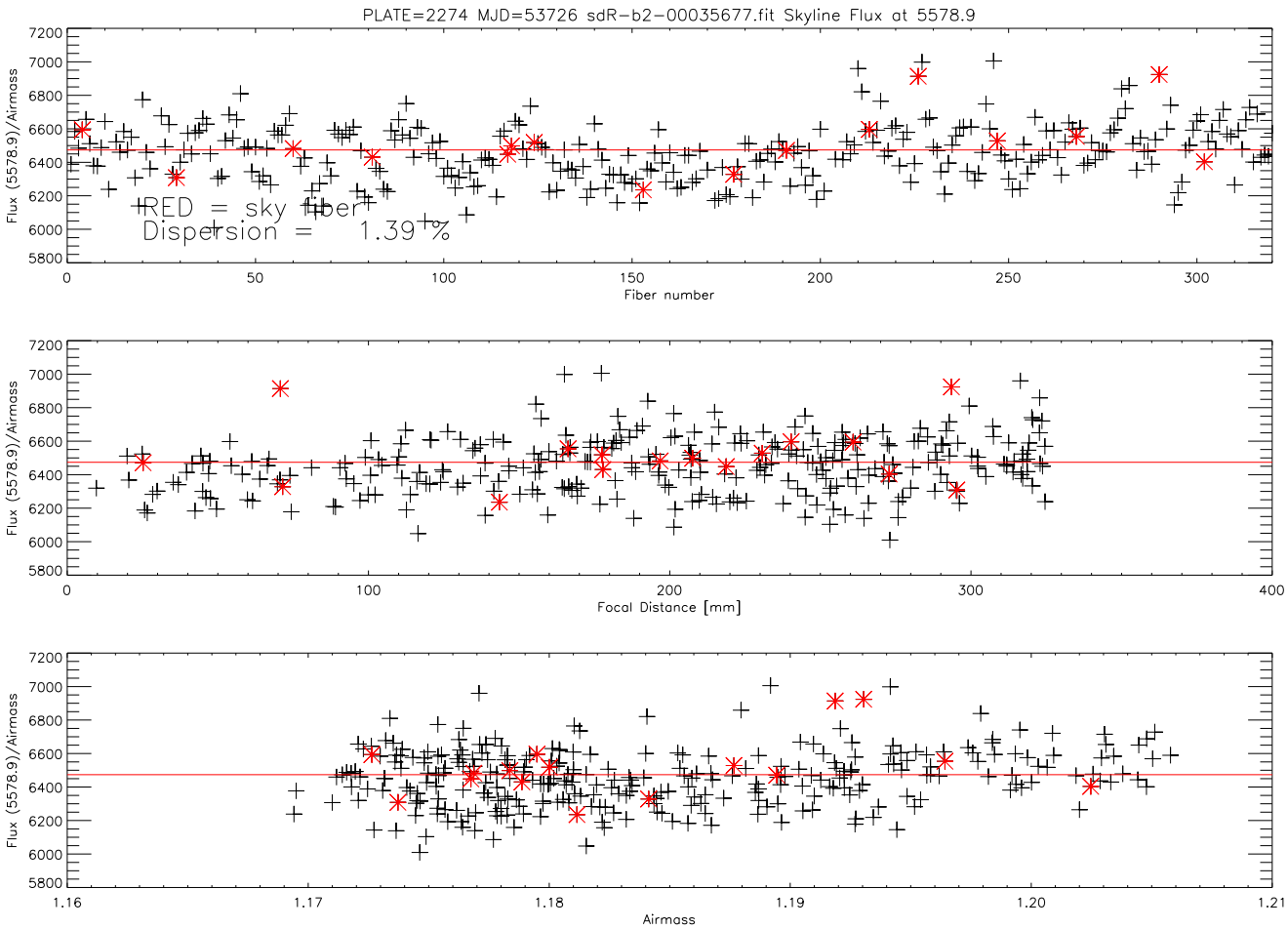

PLATE=2274 MJD=53726 sdR-b2-00035677.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

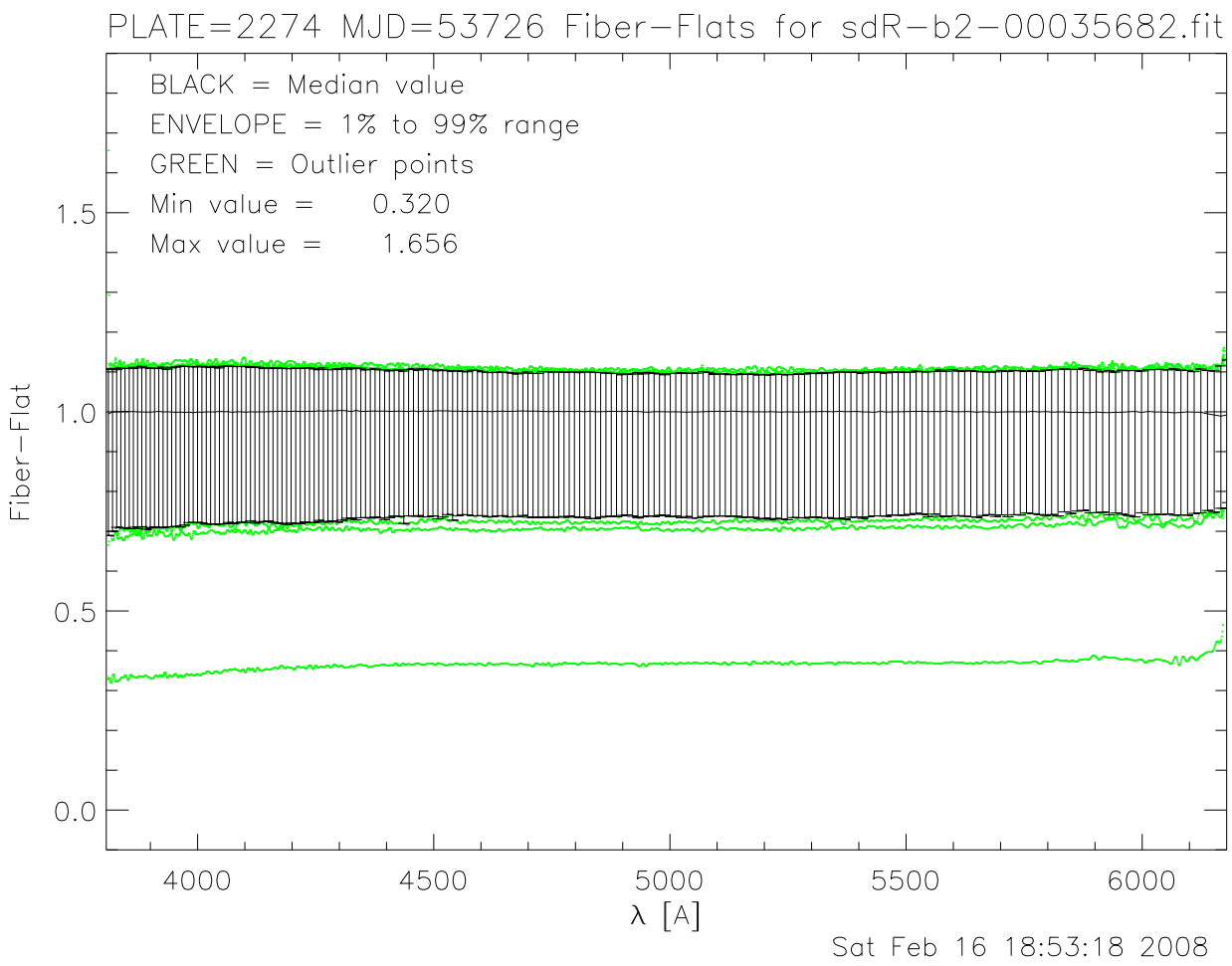

PLATE=2274 MJD=53726 sdR-b2-00035677.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

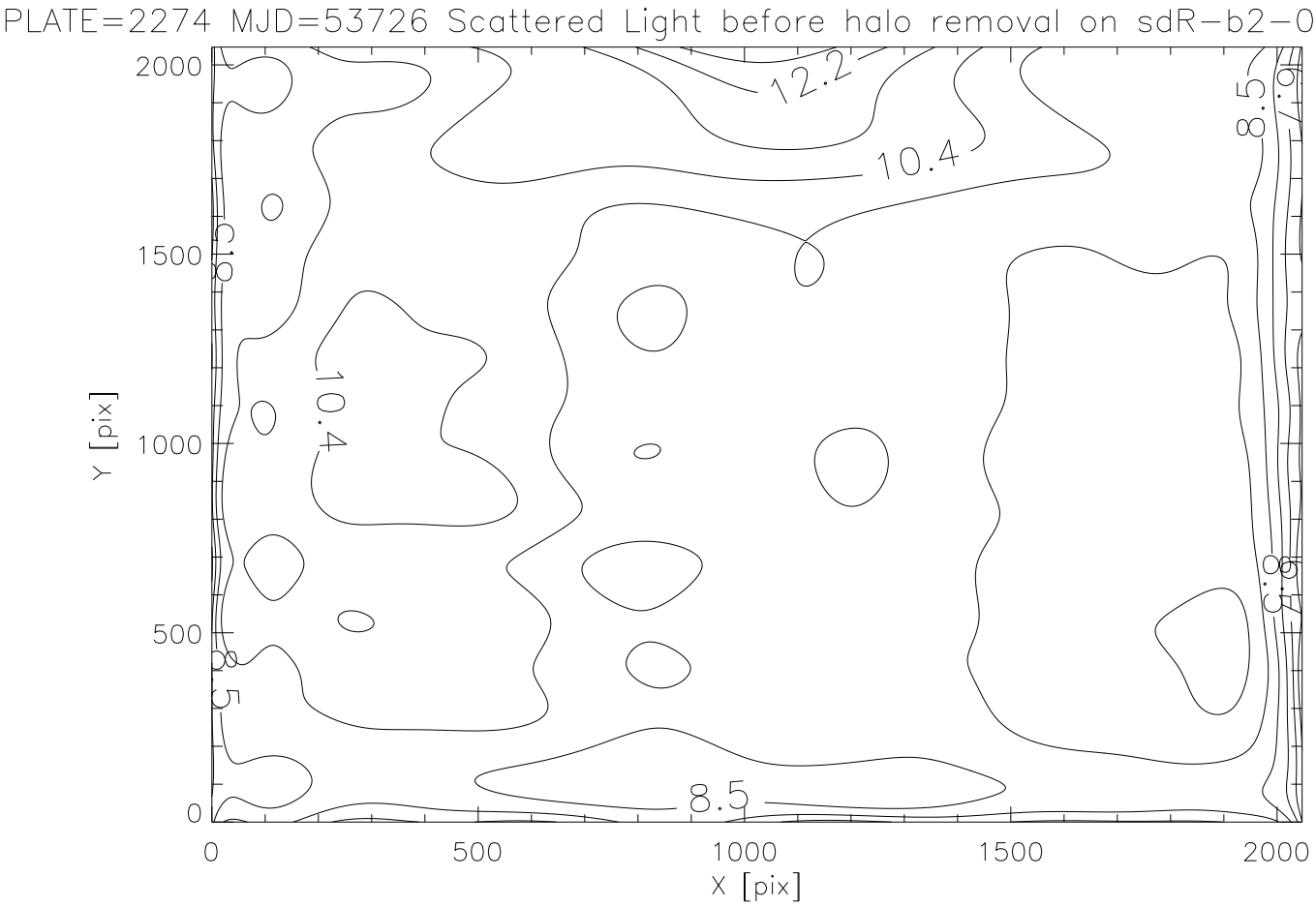

PLATE=2274 MJD=53726 sdR-b2-00035677.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
3000
2000
1000
0
-1000
5570
5575
5580
5585
5590
λ [A]

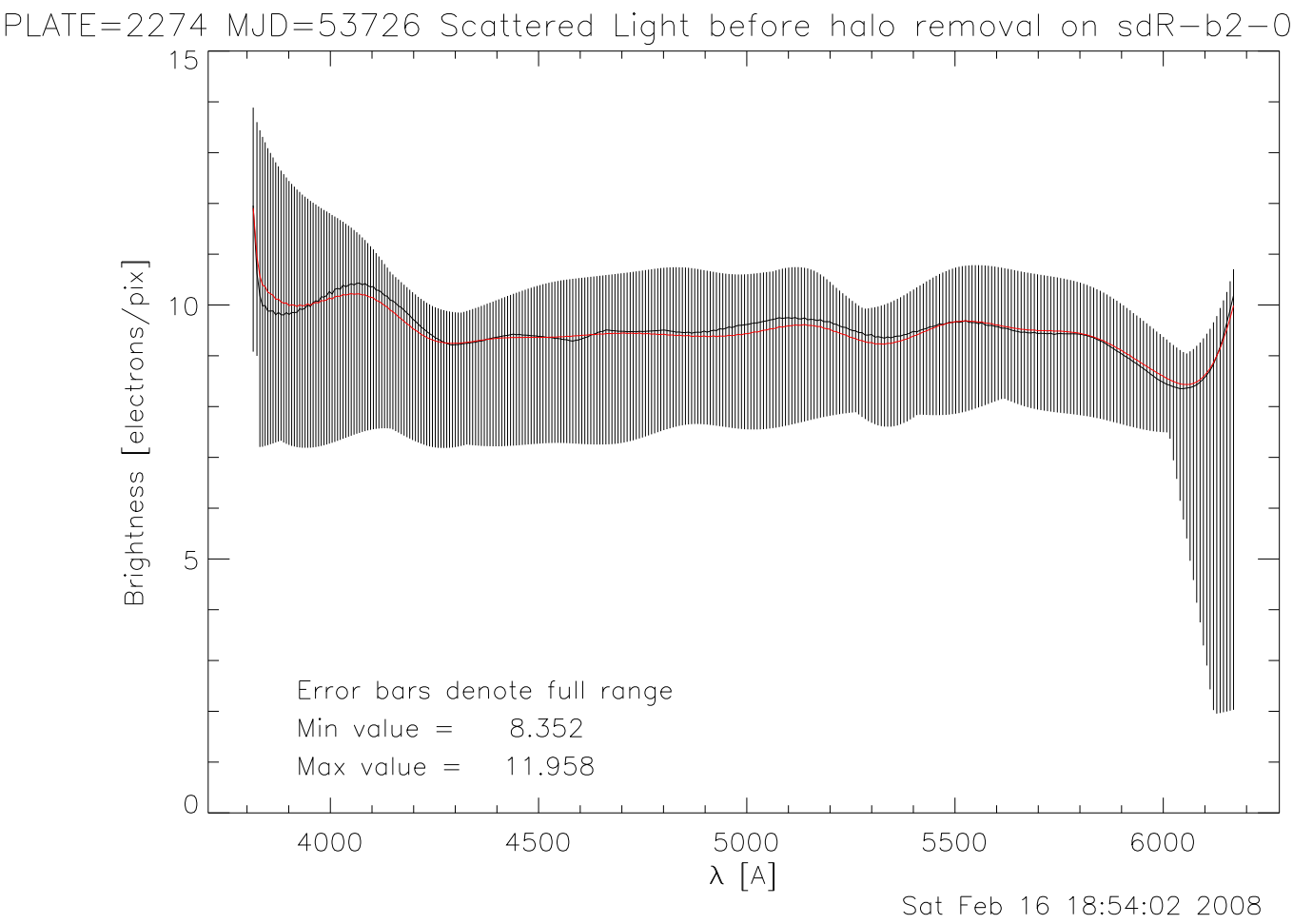

Number of sky fibers = 16
PLATE=2274 MJD=53726 sdR-b2-00035677.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

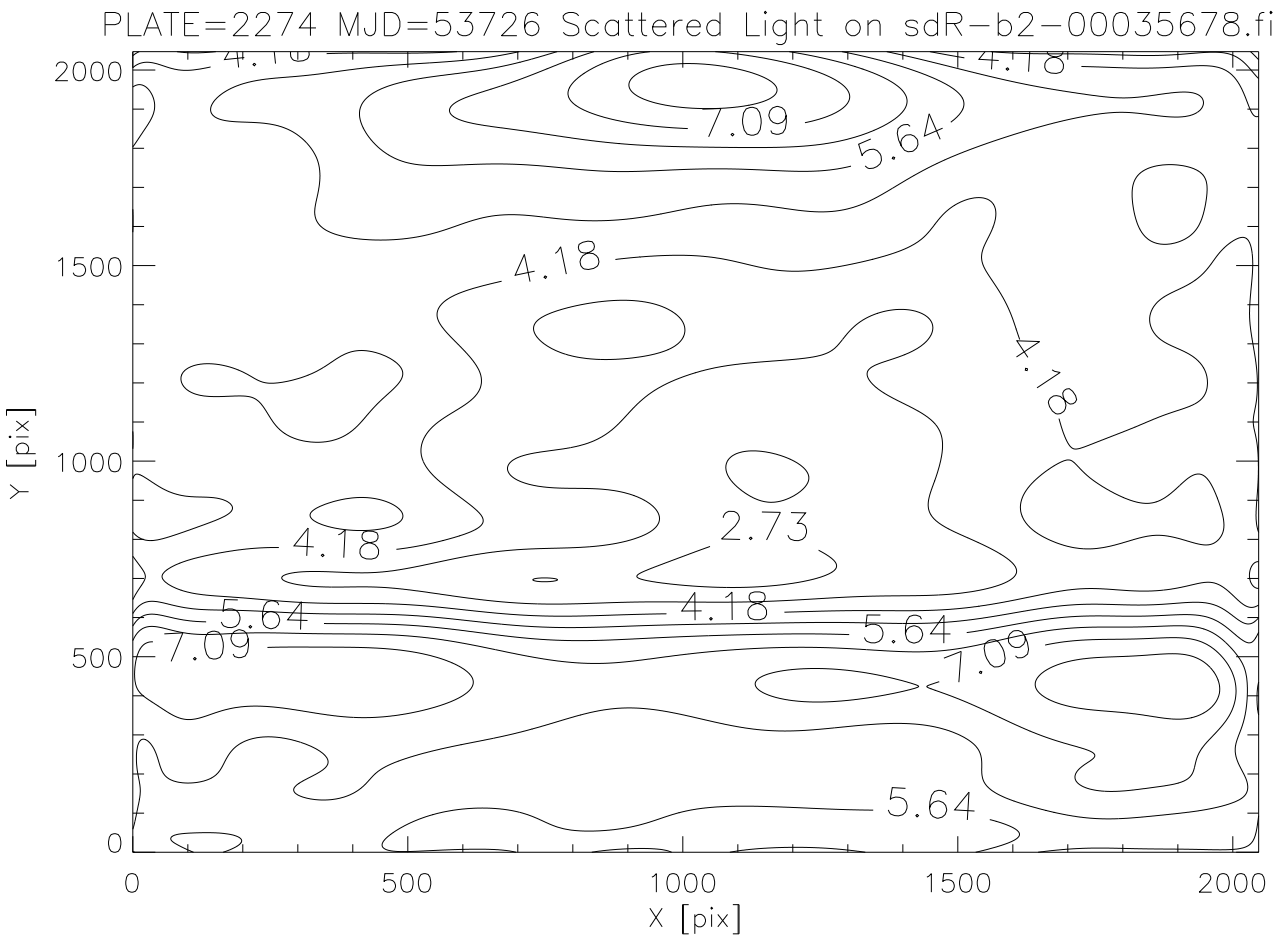

PLATE=2274 MJD=53726 sdR-b2-00035677.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 10.04 %
Fiber number
Focal Distance [mm]
Airmass

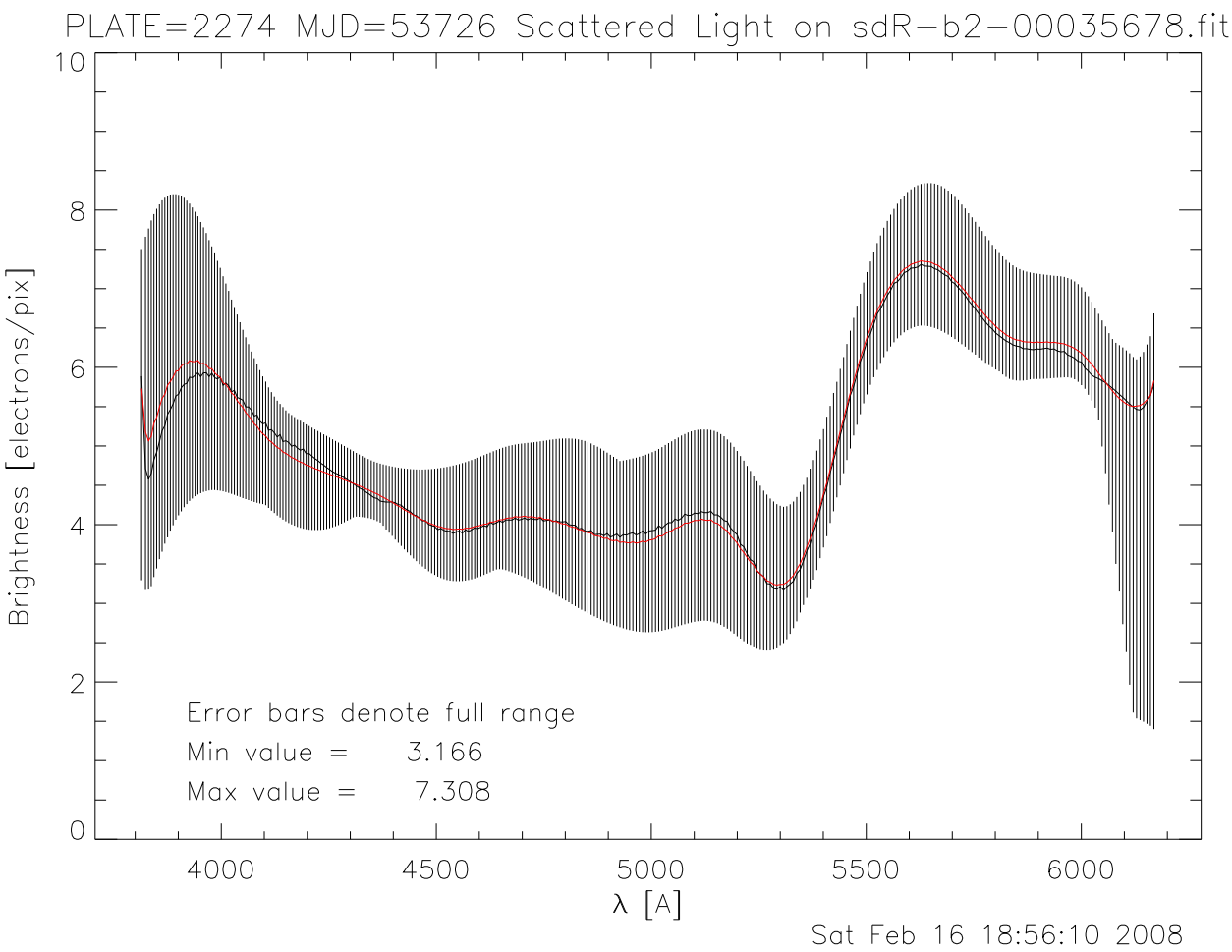

PLATE=2274 MJD=53726 sdR-b2-00035677.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.39 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

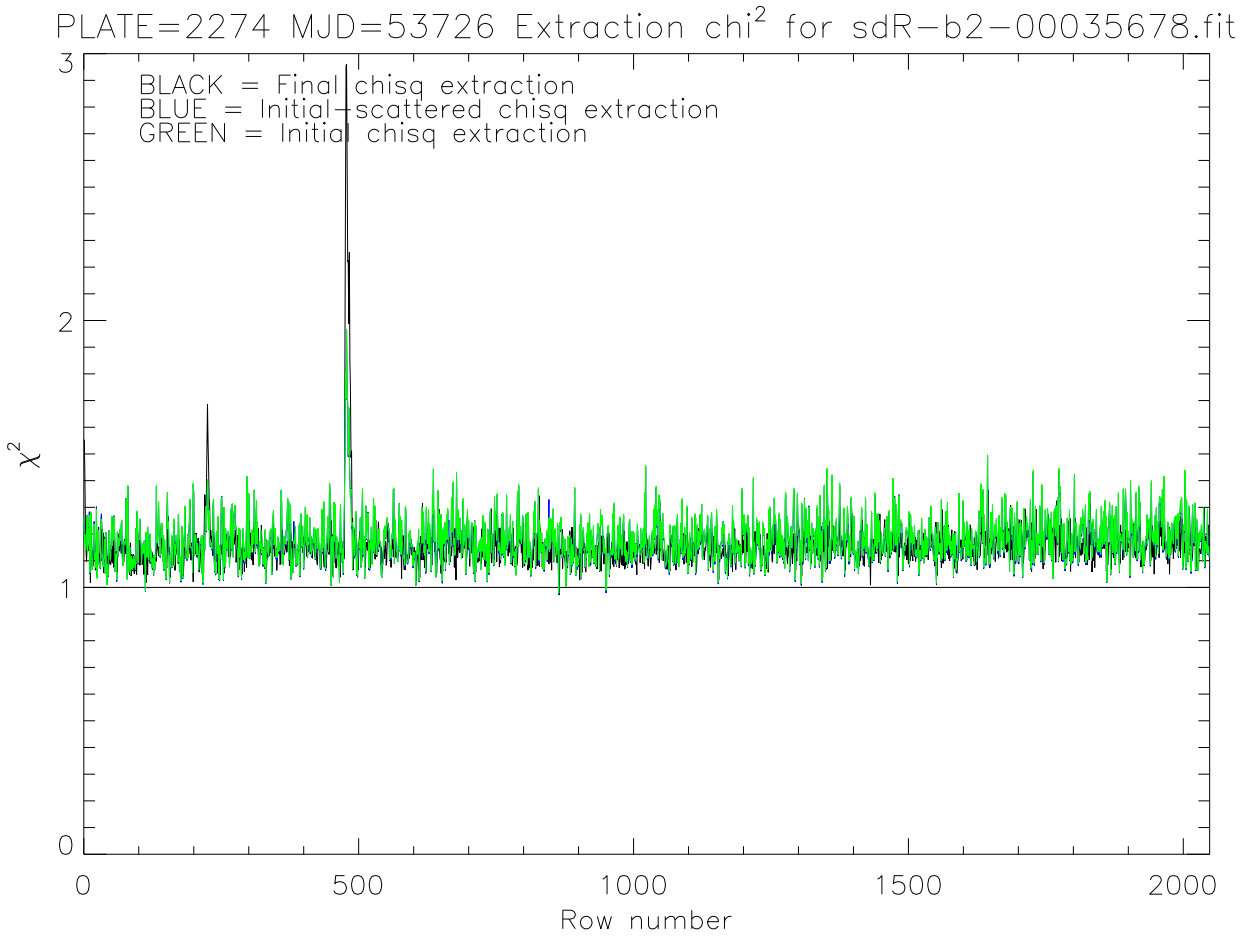

PLATE=2274 MJD=53726 Fiber-Flats for sdR-b2-00035682.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.320
Max value = 1.656
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 18:53:18 2008

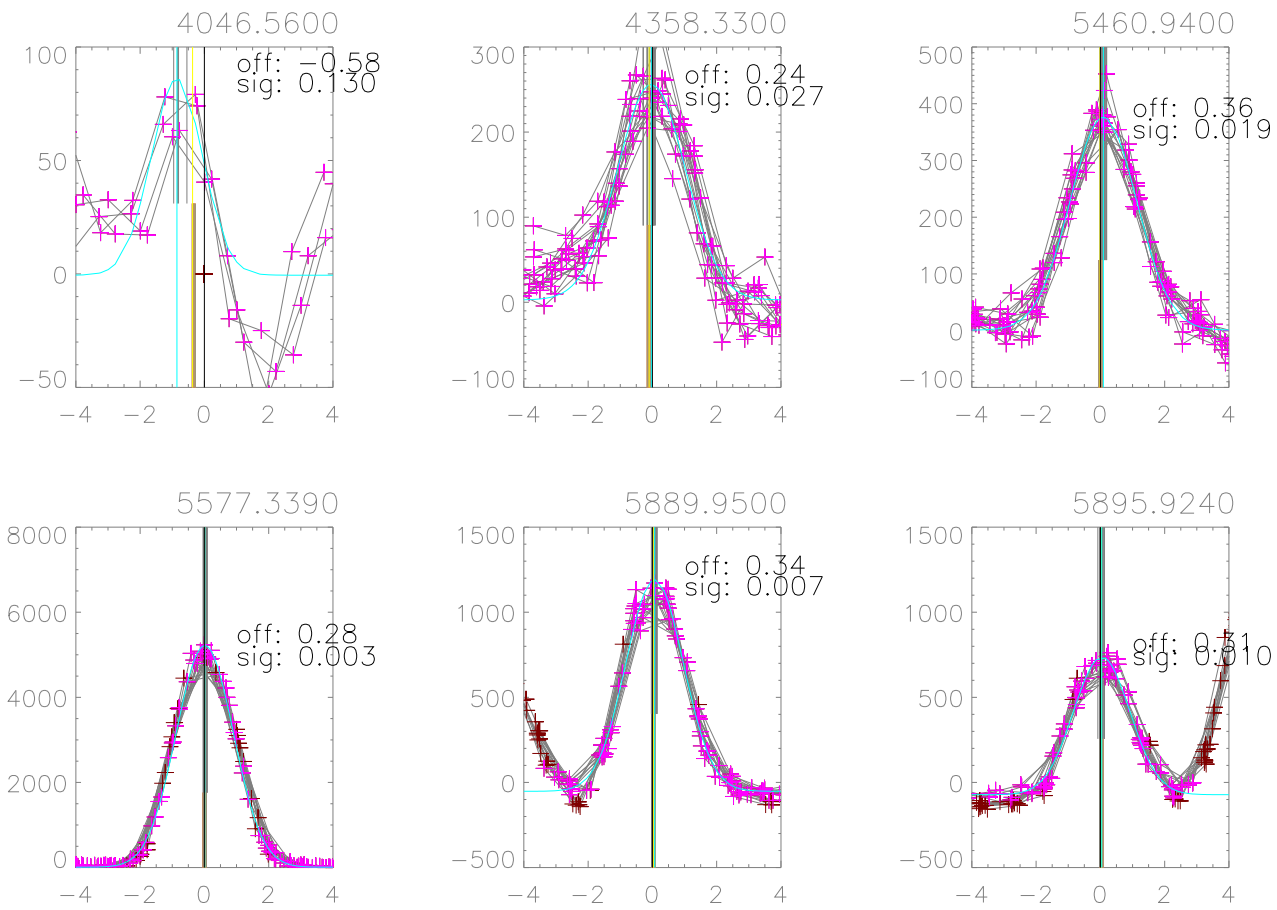

PLATE=2274 MJD=53726 Scattered Light before halo removal on sdR−b2−00035678.f
12.2
10.4
8.5
10.4
8.5
8.5
Y [pix]
X [pix]
0
500
1000
1500
2000

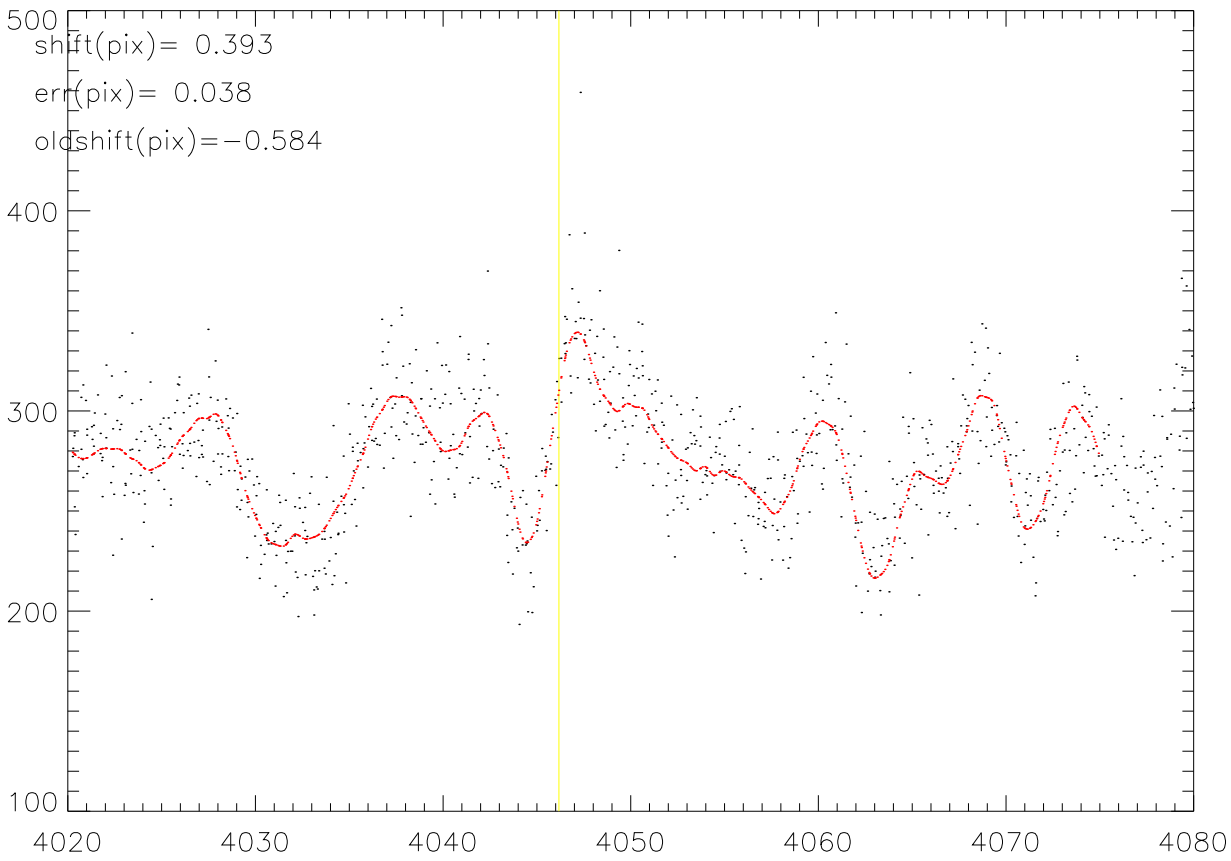

PLATE=2274 MJD=53726 Scattered Light before halo removal on sdR-b2-00035678.f
Brightness [electrons/pix]
15
10
5
0
Error bars denote full range
Min value = 8.352
Max value = 11.958
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 18:54:02 2008

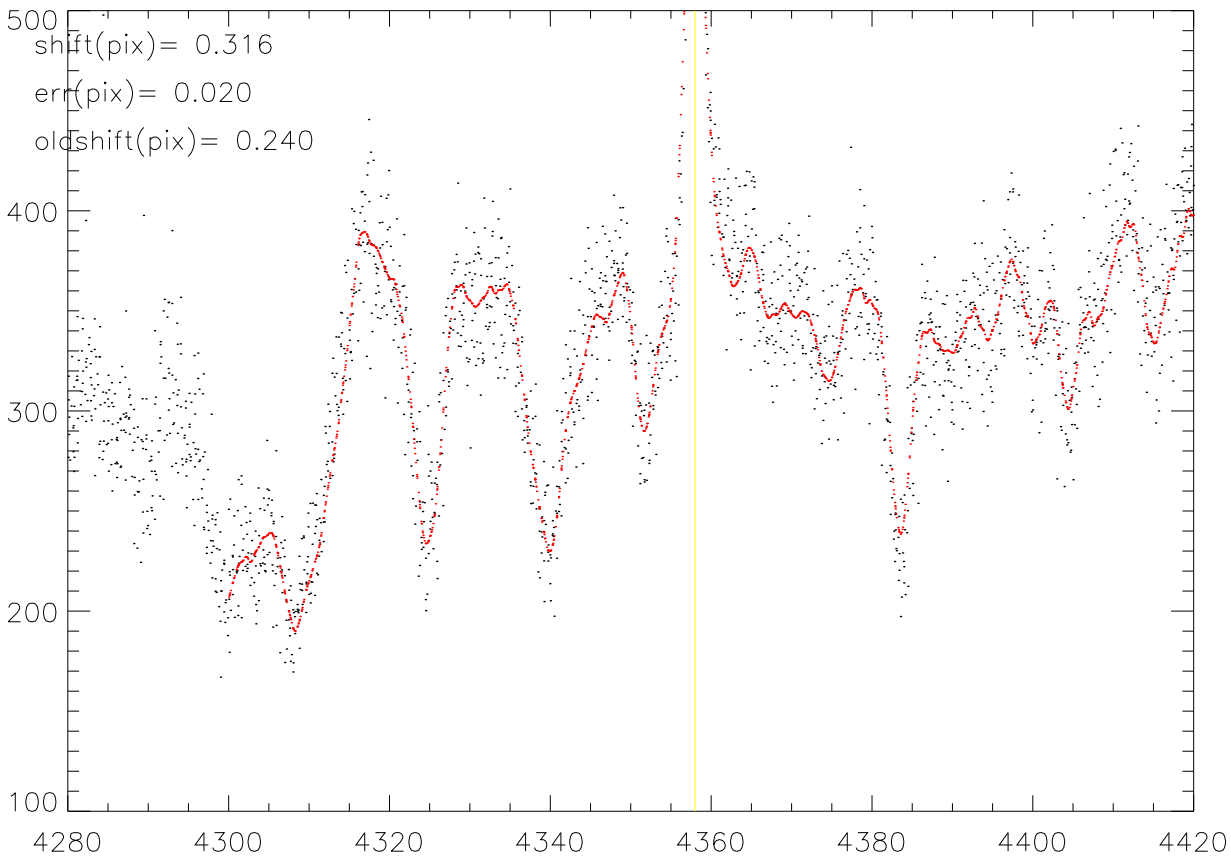

PLATE=2274 MJD=53726 Scattered Light on sdR-b2-00035678.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
4.18
5.64
7.09
2.73

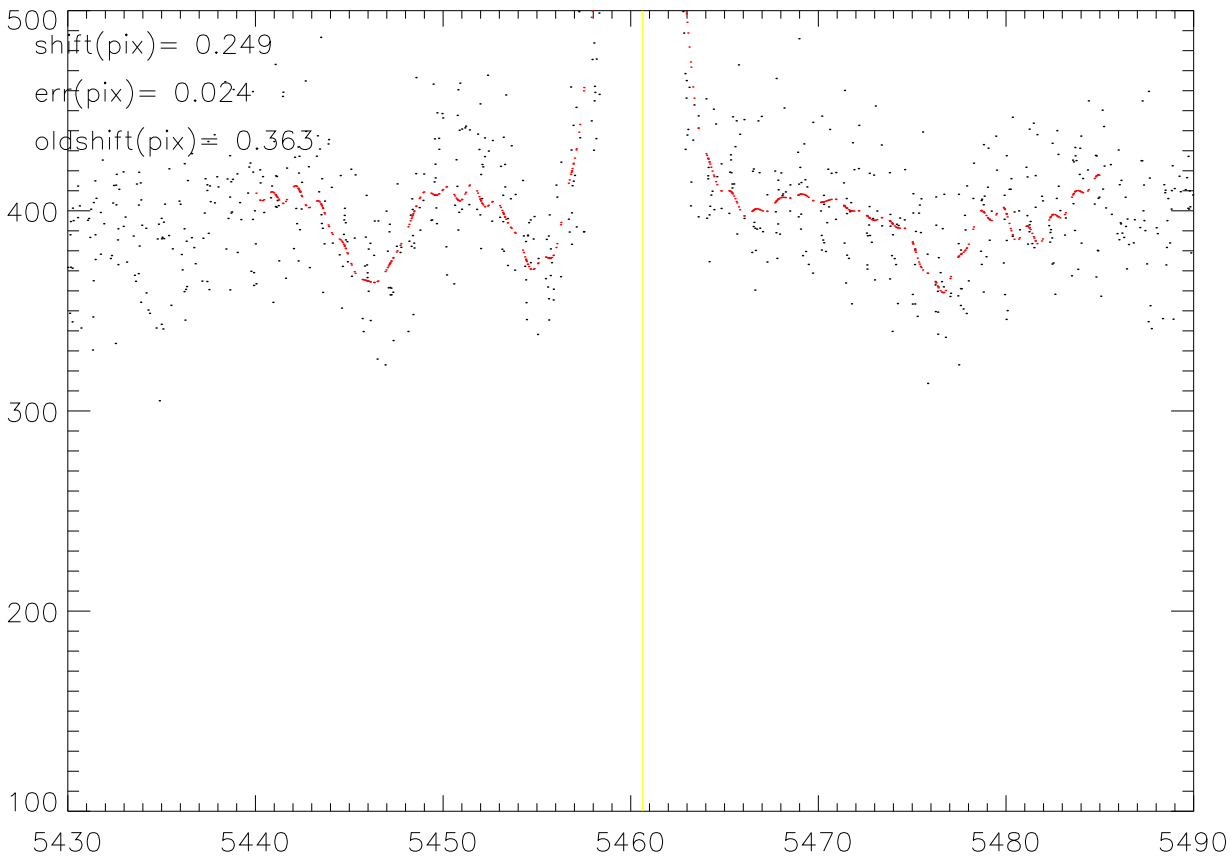

PLATE=2274 MJD=53726 Scattered Light on sdR-b2-00035678.fit
Brightness [electrons/pix]
10
8
6
4
2
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 3.166
Max value = 7.308
Sat Feb 16 18:56:10 2008

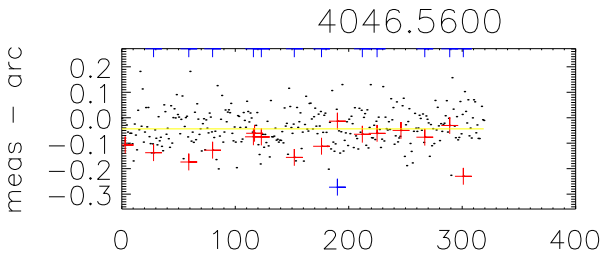

PLATE=2274 MJD=53726 Extraction chi^2 for sdR-b2-00035678.fit
BLACK = Final chisq extraction
BLUE = Initial+scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
0
500
1000
1500
2000
Row number

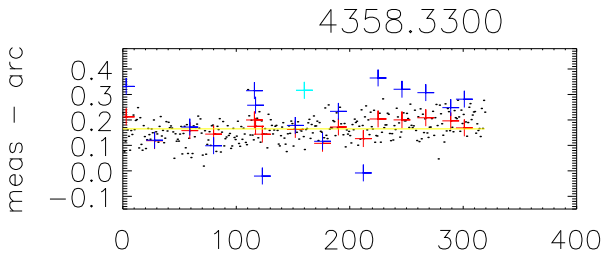

4046.5600
off: −0.58
sig: 0.130
4358.3300
off: 0.24
sig: 0.027
5460.9400
off: 0.36
sig: 0.019
5577.3390
off: 0.28
sig: 0.003
5889.9500
off: 0.34
sig: 0.007
5895.9240
off: 0.31
sig: 0.010

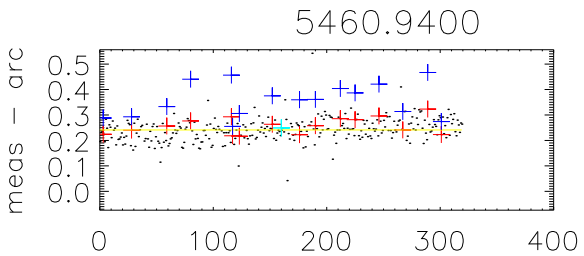

shift(pix)= 0.393
err(pix)= 0.038
oldshift(pix)=−0.584
500
400
300
200
100
4020
4030
4040
4050
4060
4070
4080

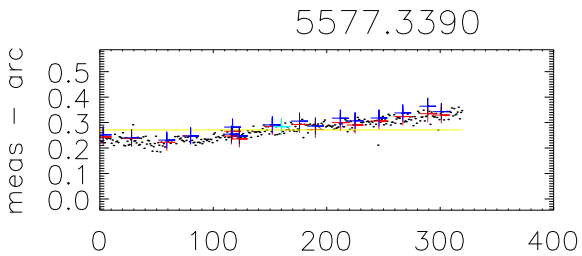

shift(pix)= 0.316
err(pix)= 0.020
oldshift(pix)= 0.240
500
400
300
200
100
4280
4300
4320
4340
4360
4380
4400
4420

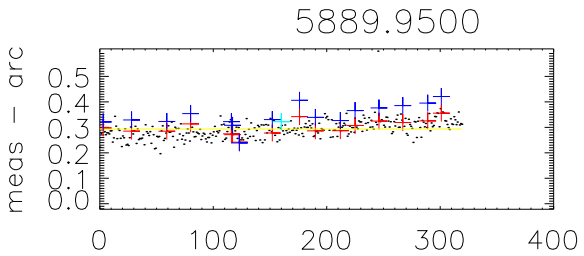

shift(pix)= 0.249
err(pix)= 0.024
oldshift(pix)= 0.363
500
400
300
200
100
5430
5440
5450
5460
5470
5480
5490

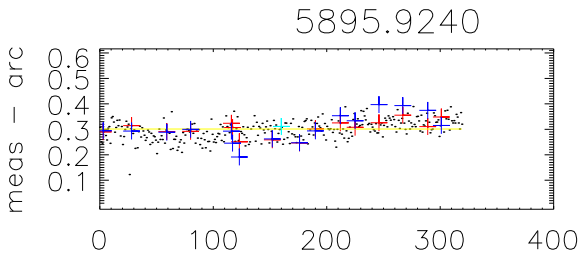

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

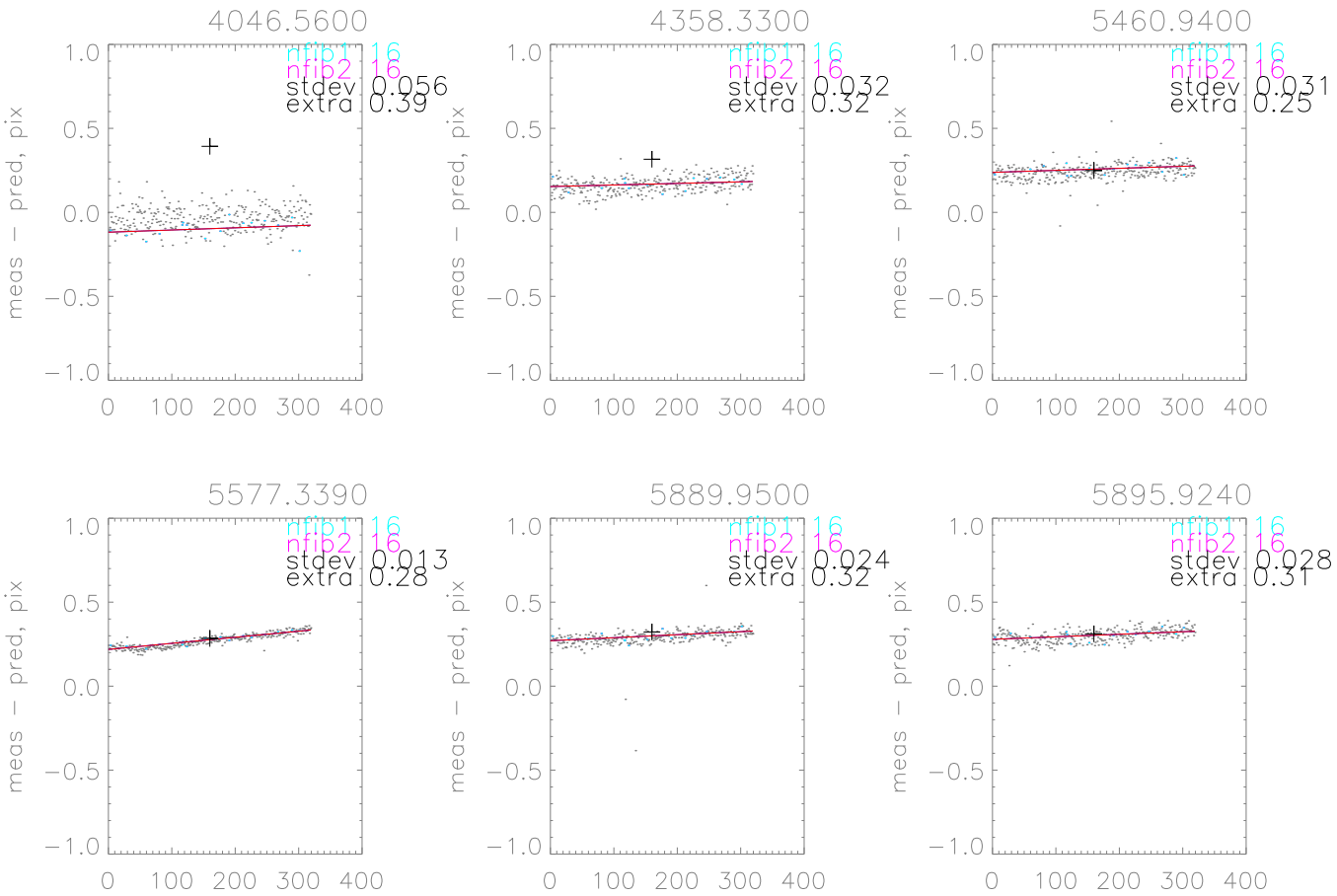

4358.3300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

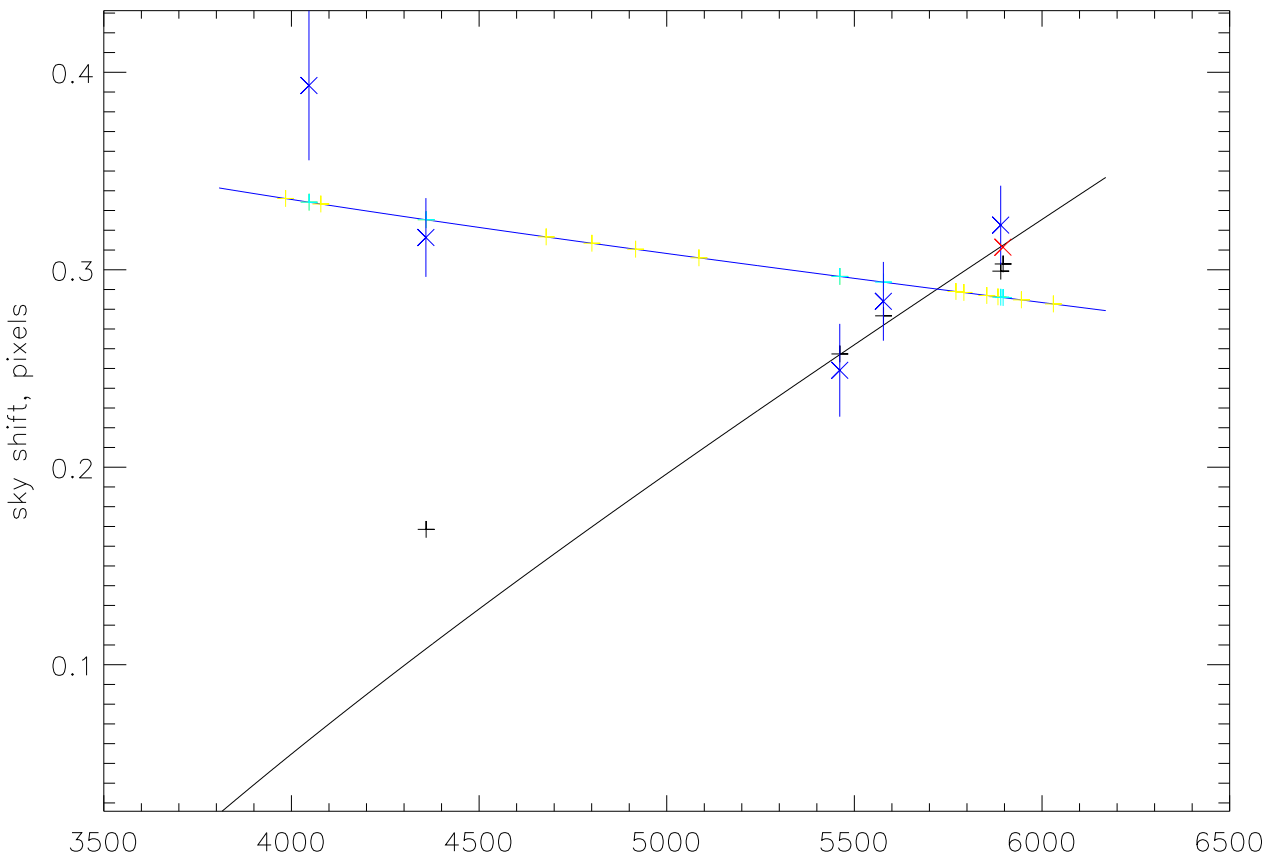

5460.9400
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

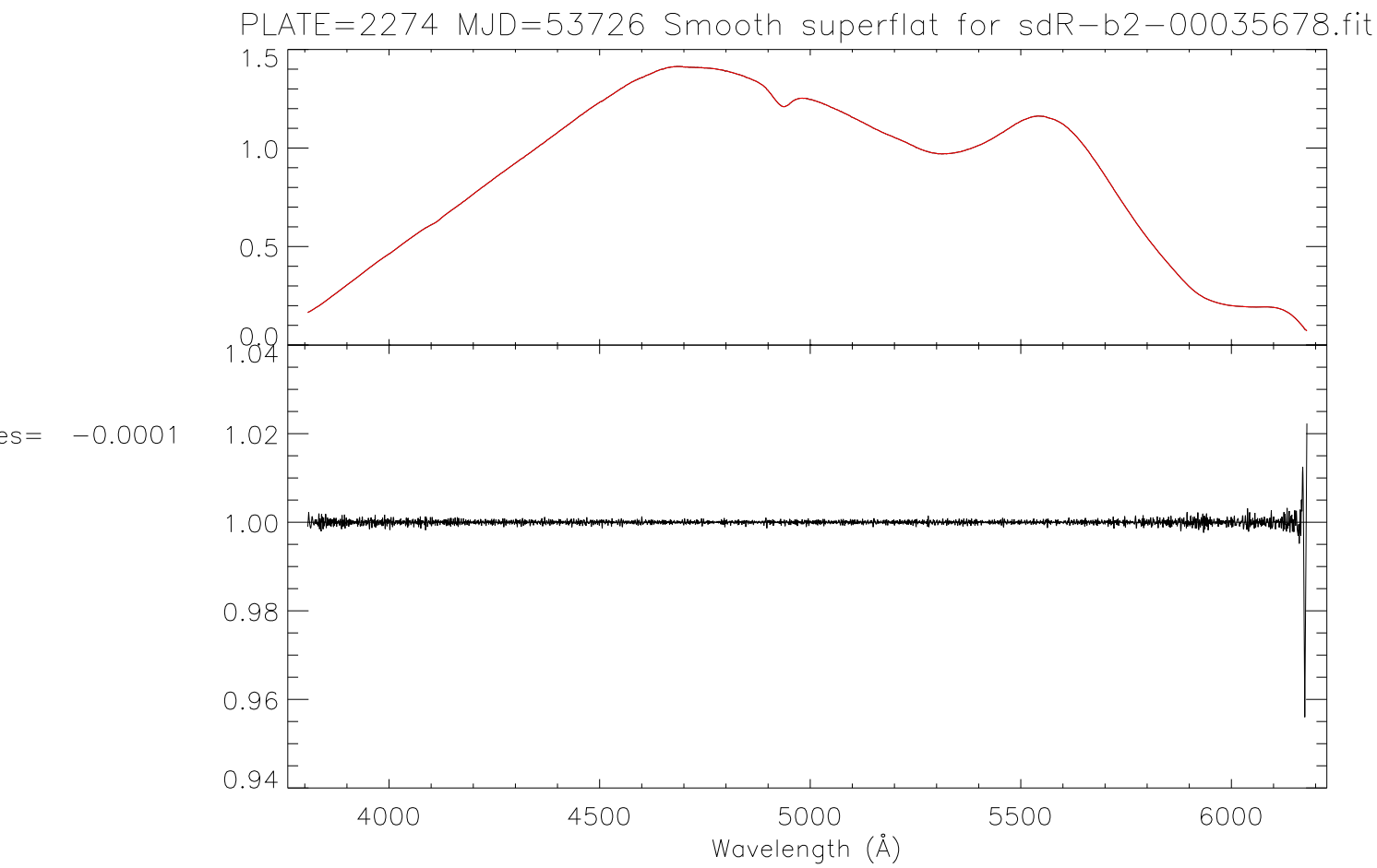

5577.3390
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400


5889.9500
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

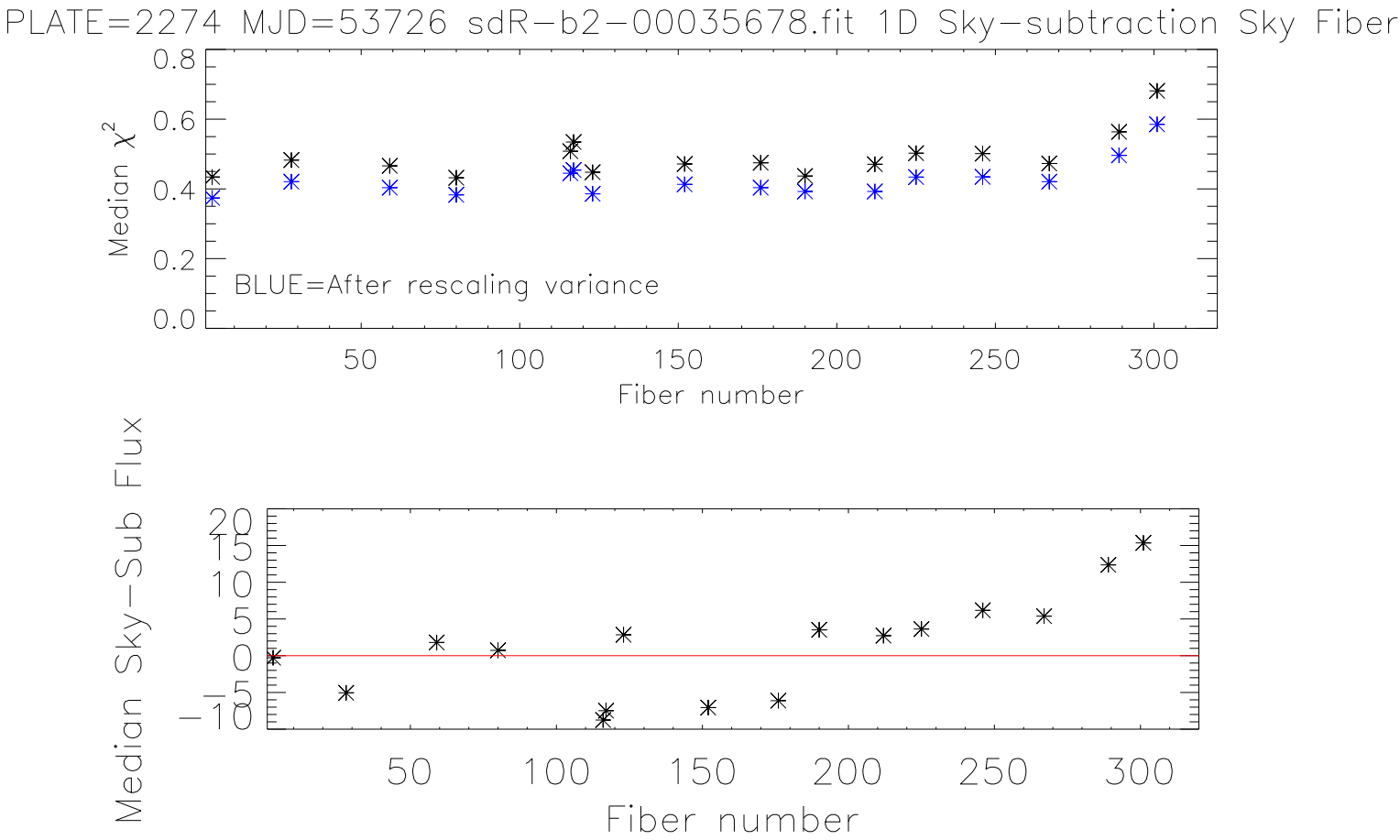

5895.9240
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

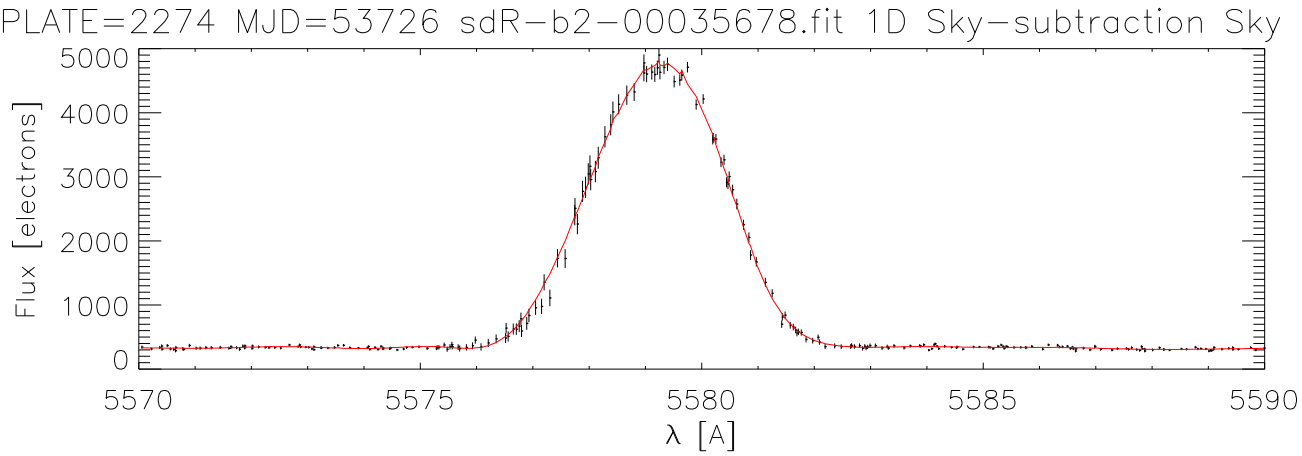

4046.5600
nfib1 16
nfib2 16
stdev 0.056
extra 0.39
4358.3300
nfib1 16
nfib2 16
stdev 0.032
extra 0.32
5460.9400
nfib1 16
nfib2 16
stdev 0.031
extra 0.25
5577.3390
nfib1 16
nfib2 16
stdev 0.013
extra 0.28
5889.9500
nfib1 16
nfib2 16
stdev 0.024
extra 0.32
5895.9240
nfib1 16
nfib2 16
stdev 0.028
extra 0.31
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

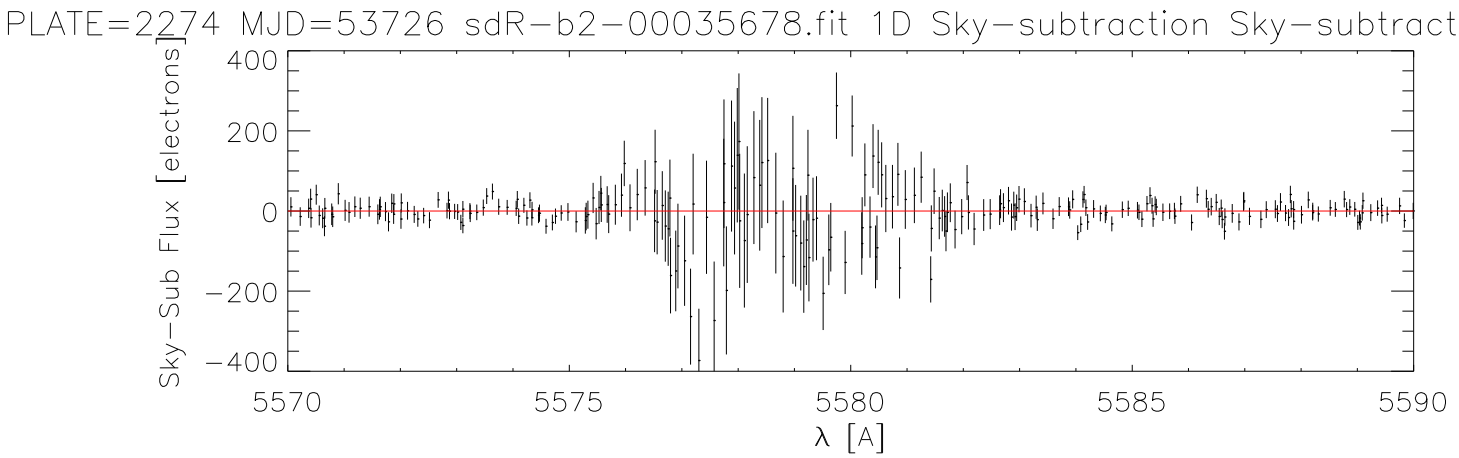

0.4
0.3
0.2
0.1
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

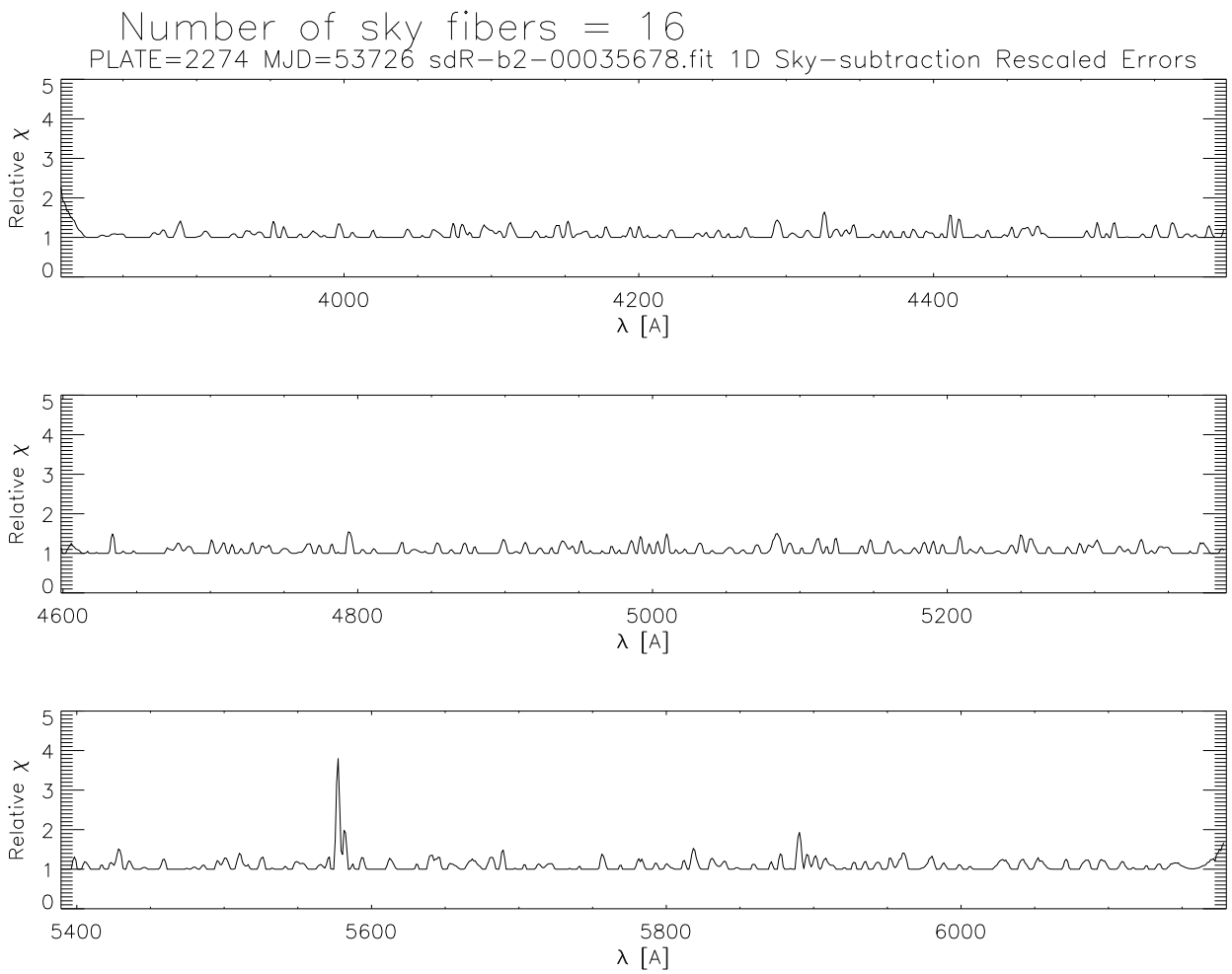

PLATE=2274 MJD=53726 Smooth superflat for sdR-b2-00035678.fit
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
0.94
4000
4500
5000
5500
6000
Wavelength (Å)

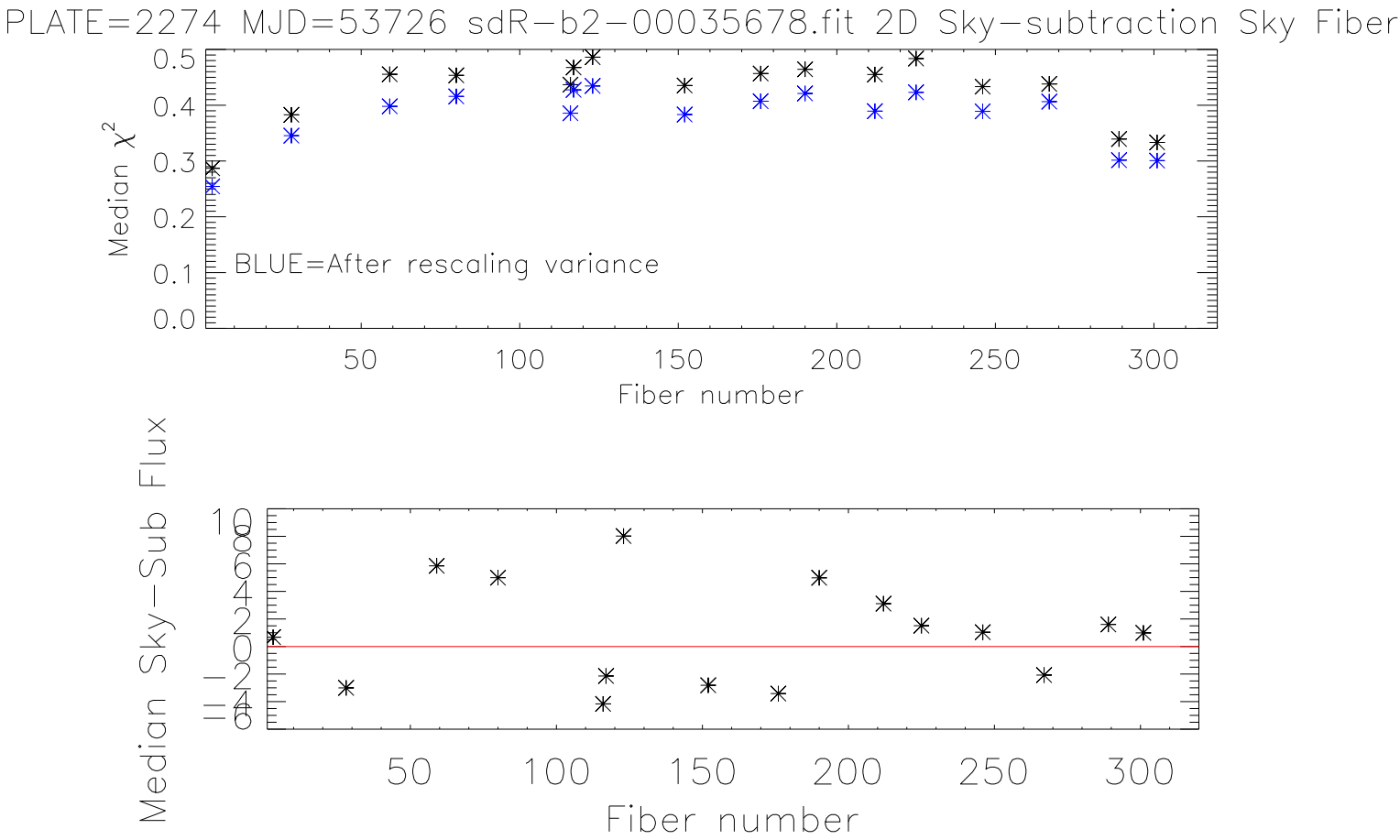
es= −0.0001

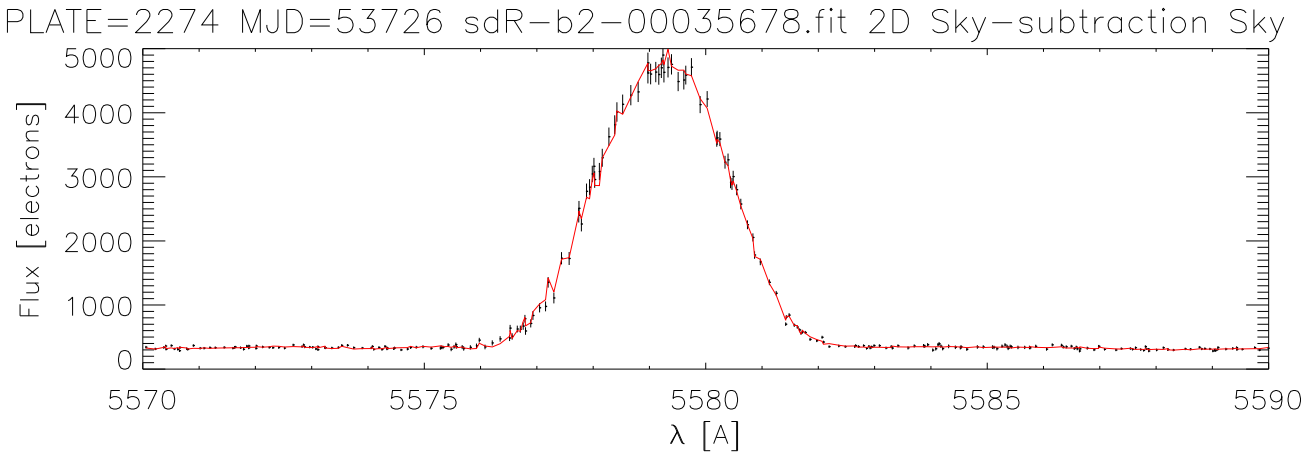

PLATE=2274 MJD=53726 sdR-b2-00035678.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

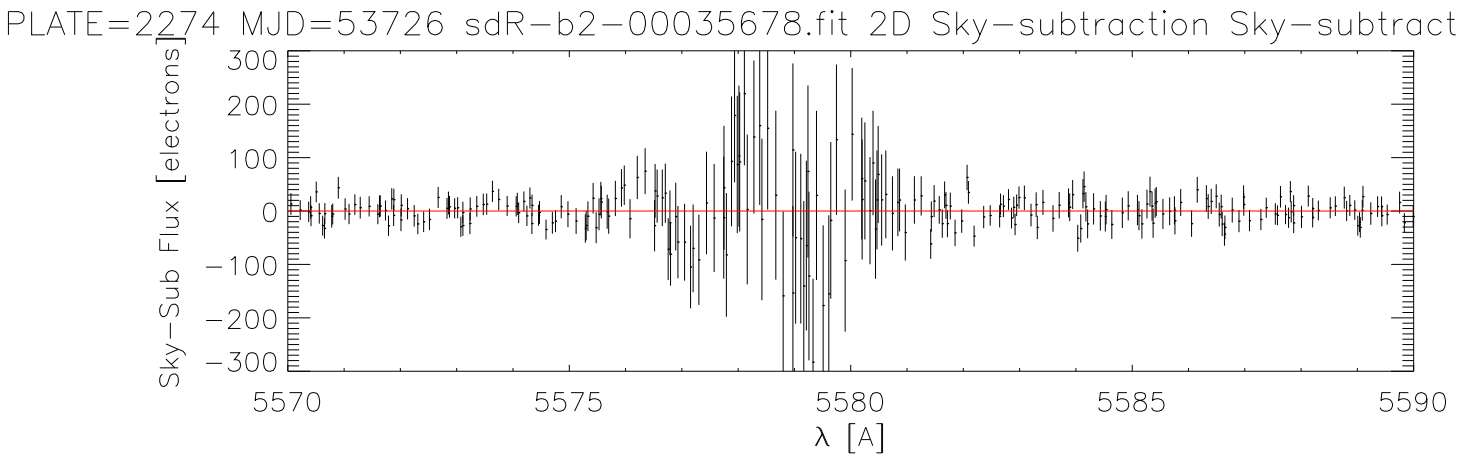

PLATE=2274 MJD=53726 sdR-b2-00035678.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

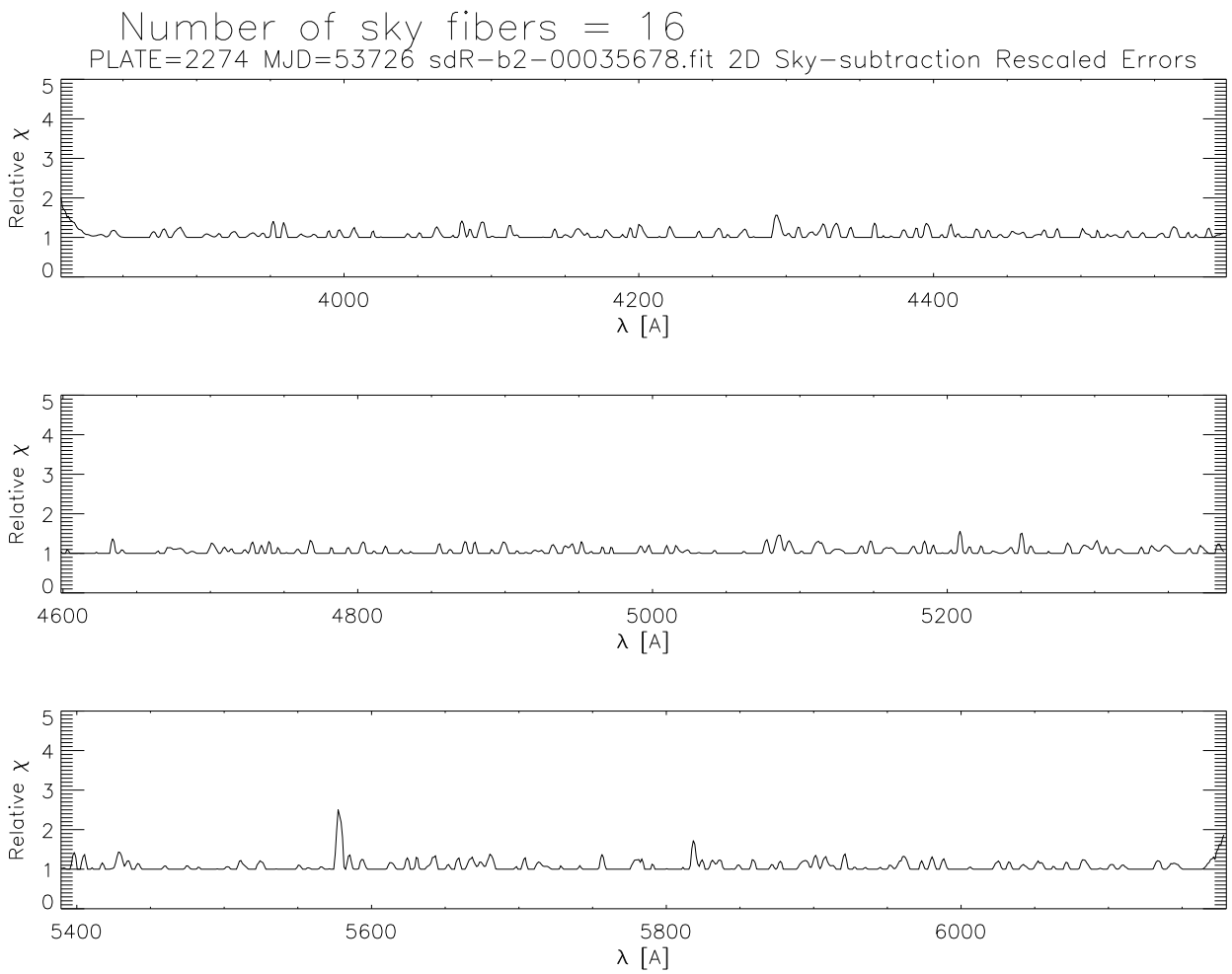

PLATE=2274 MJD=53726 sdR-b2-00035678.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

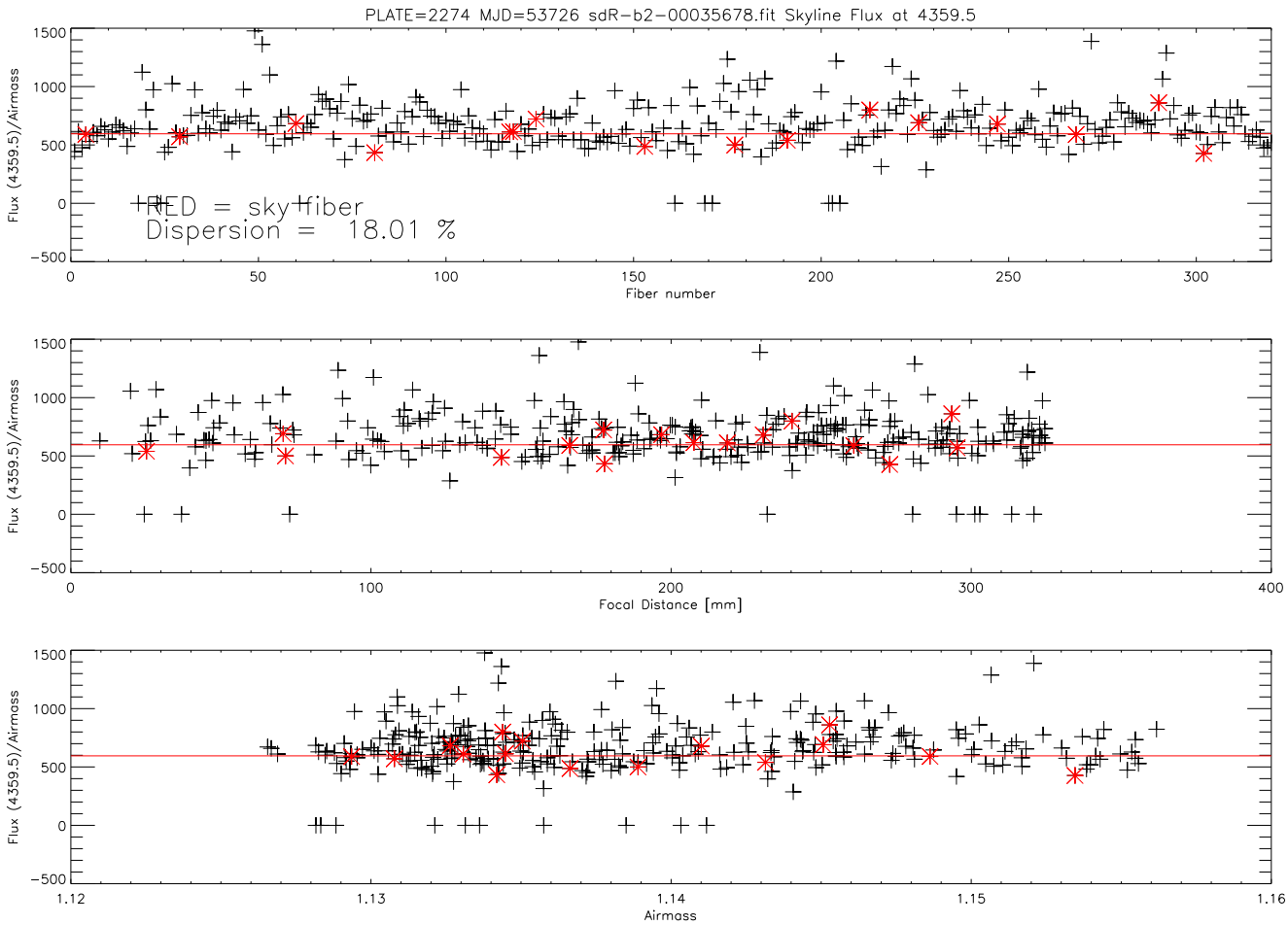

Number of sky fibers = 16
PLATE=2274 MJD=53726 sdR-b2-00035678.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

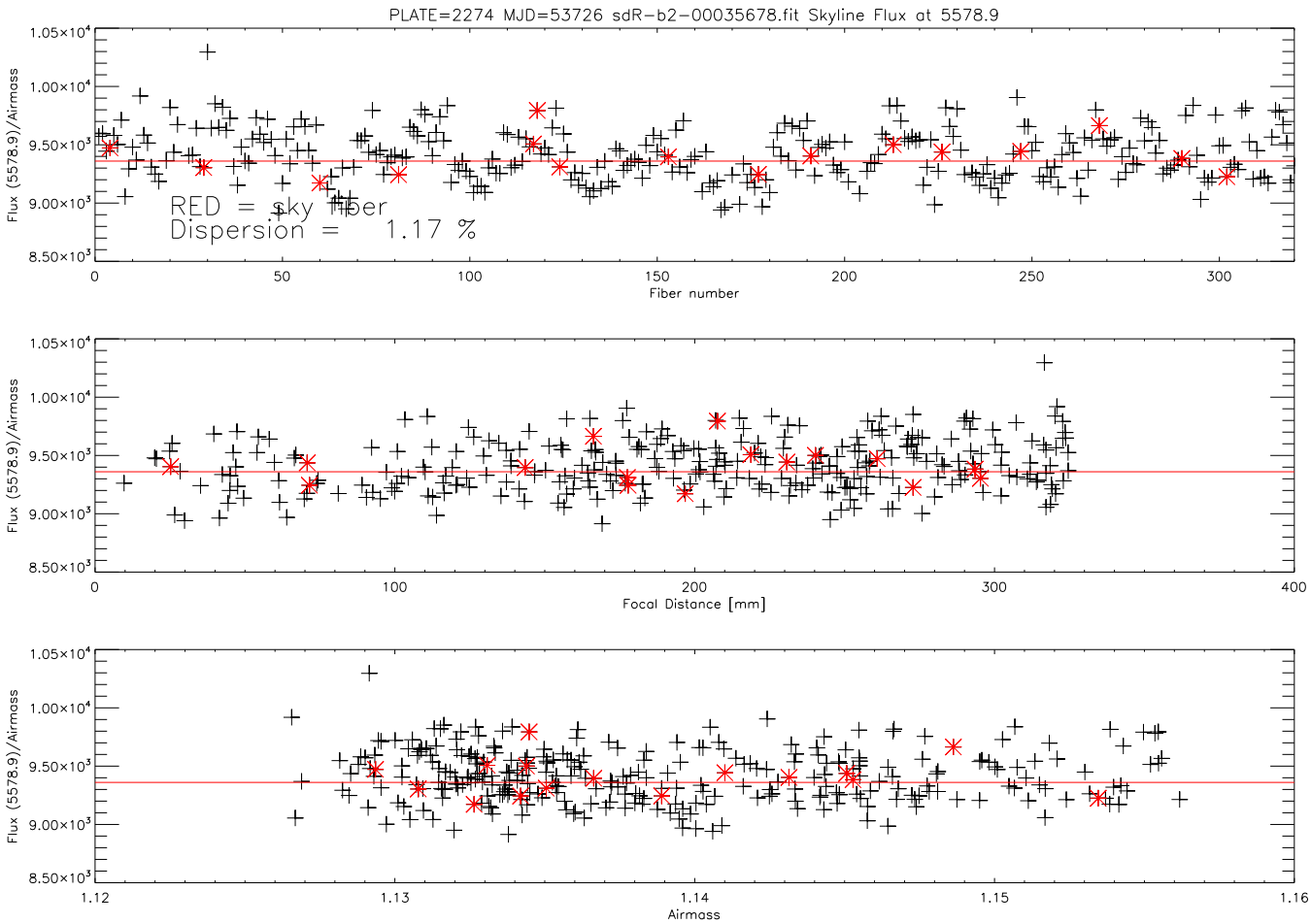

PLATE=2274 MJD=53726 sdR-b2-00035678.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-10
-8
-6
-4
-2
0
2
4
6
8
10
50
100
150
200
250
300
Fiber number

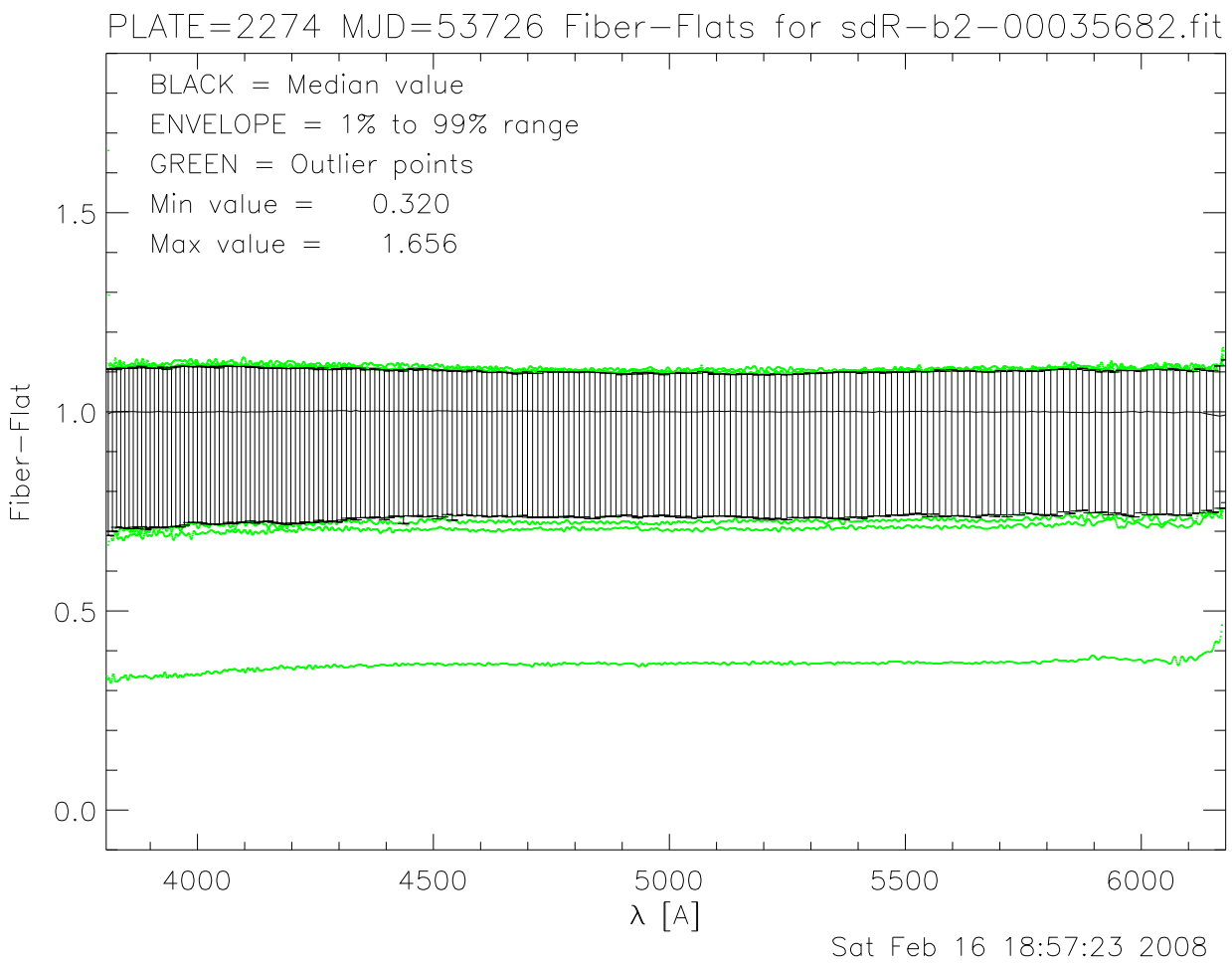

PLATE=2274 MJD=53726 sdR-b2-00035678.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

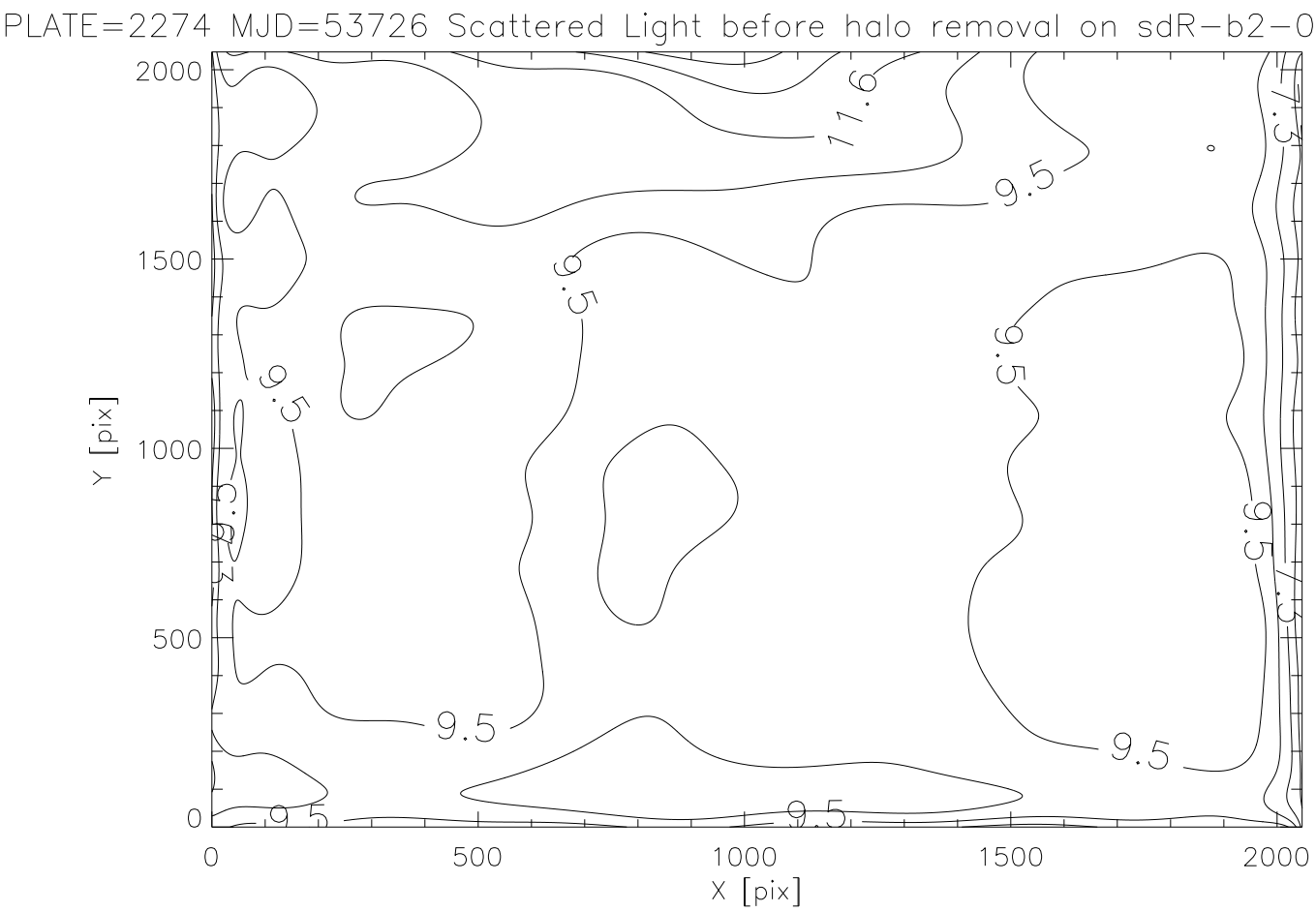

PLATE=2274 MJD=53726 sdR-b2-00035678.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

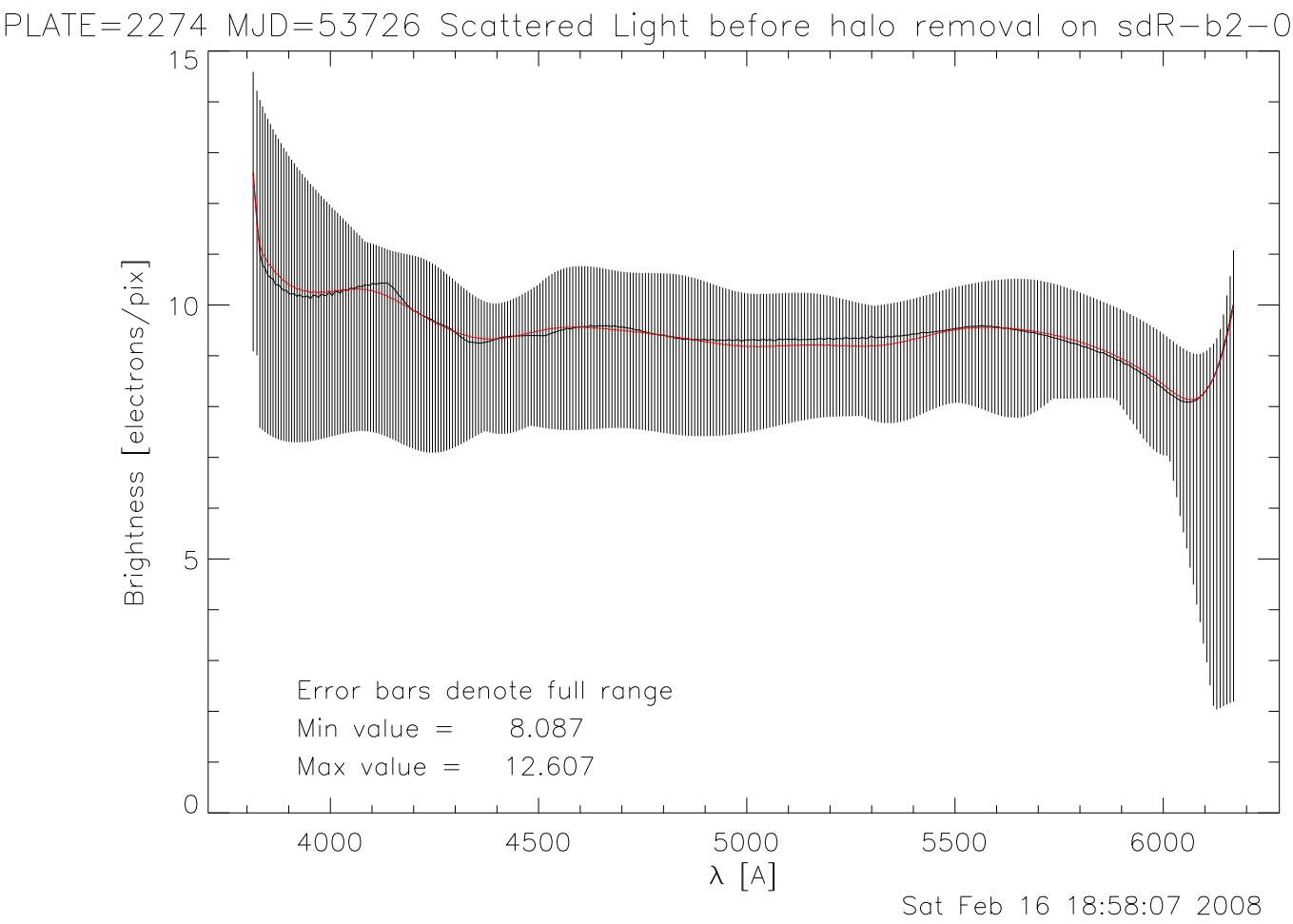

Number of sky fibers = 16
PLATE=2274 MJD=53726 sdR-b2-00035678.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

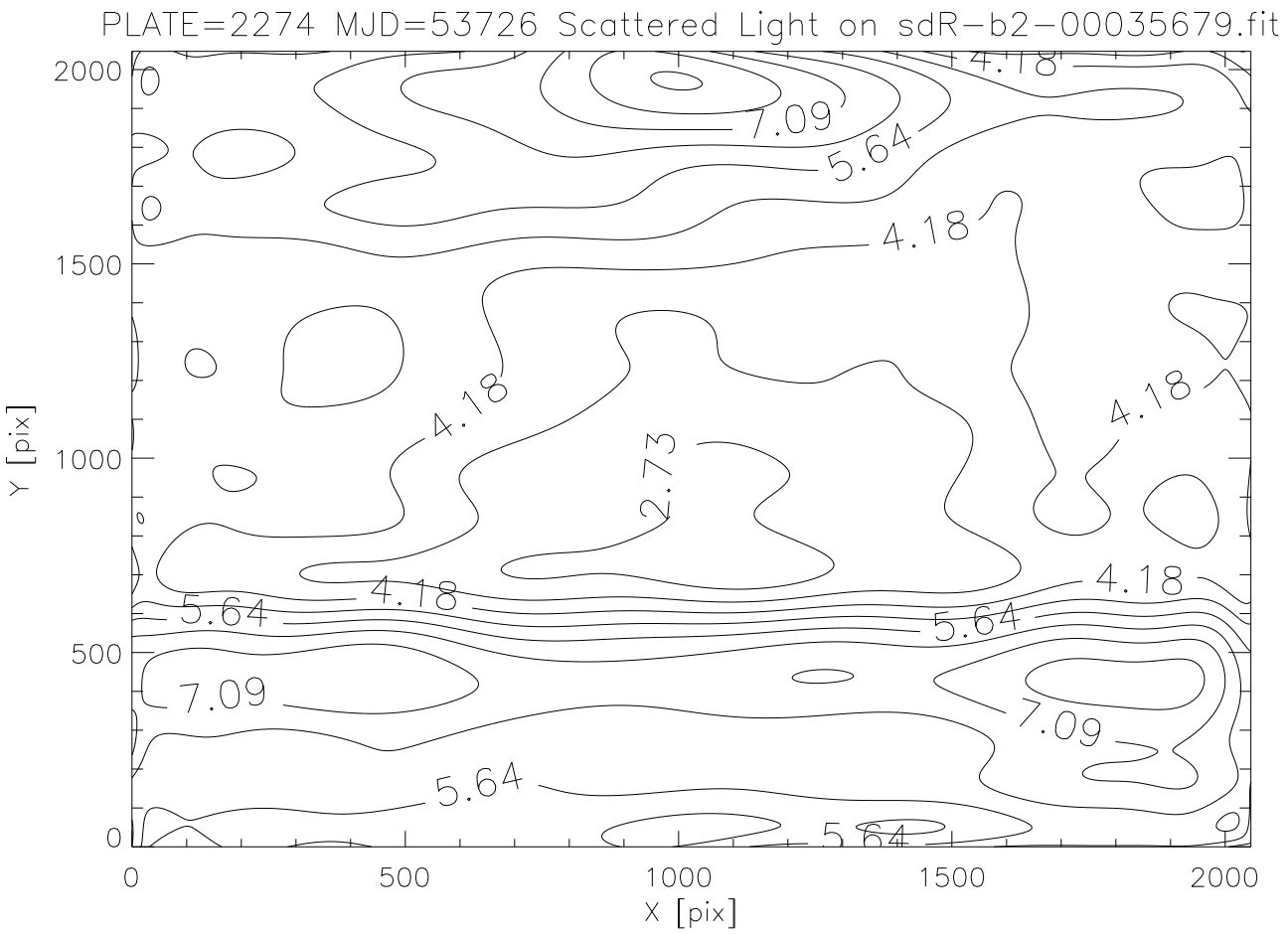

PLATE=2274 MJD=53726 sdR-b2-00035678.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 18.01 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

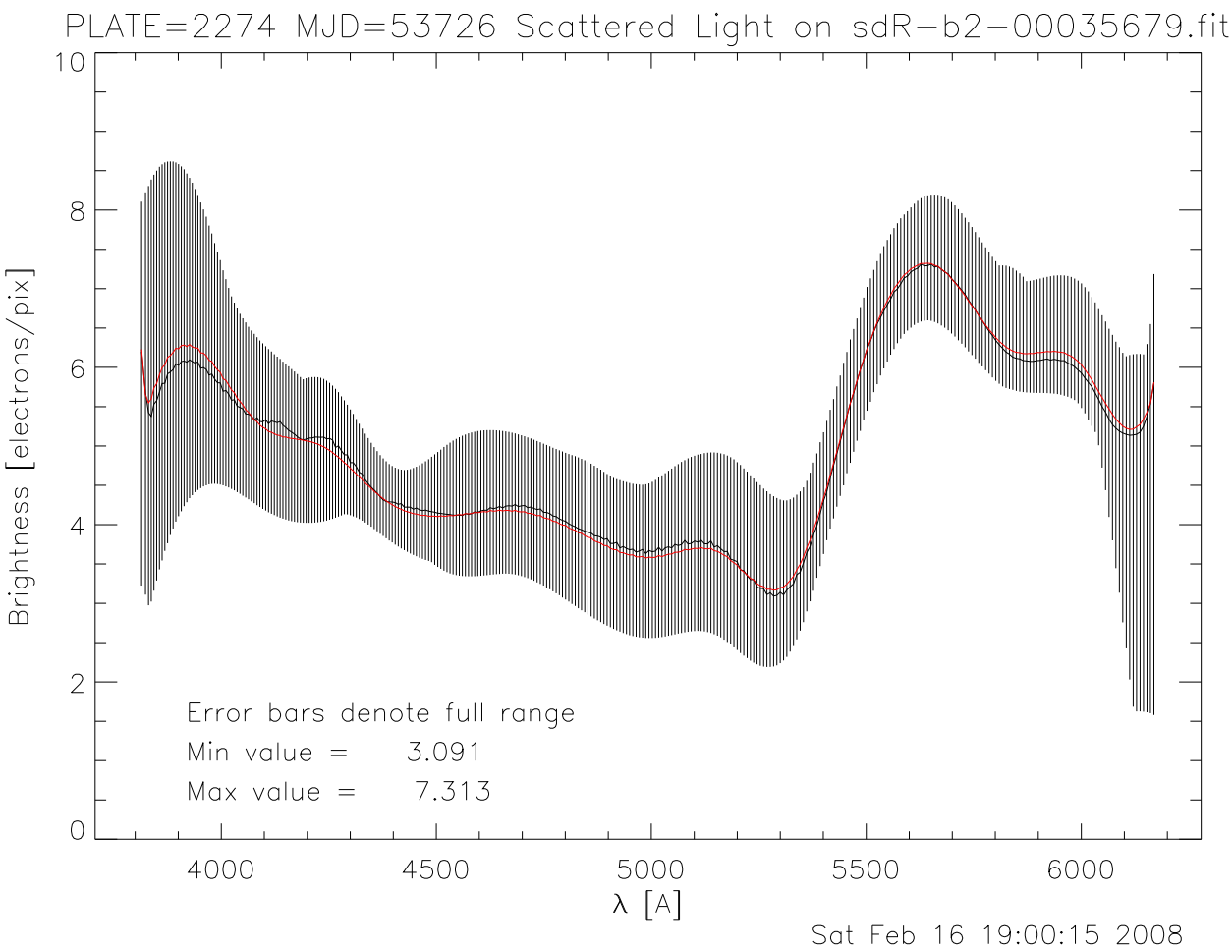

PLATE=2274 MJD=53726 sdR-b2-00035678.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.17 %
Fiber number
Focal Distance [mm]
Airmass

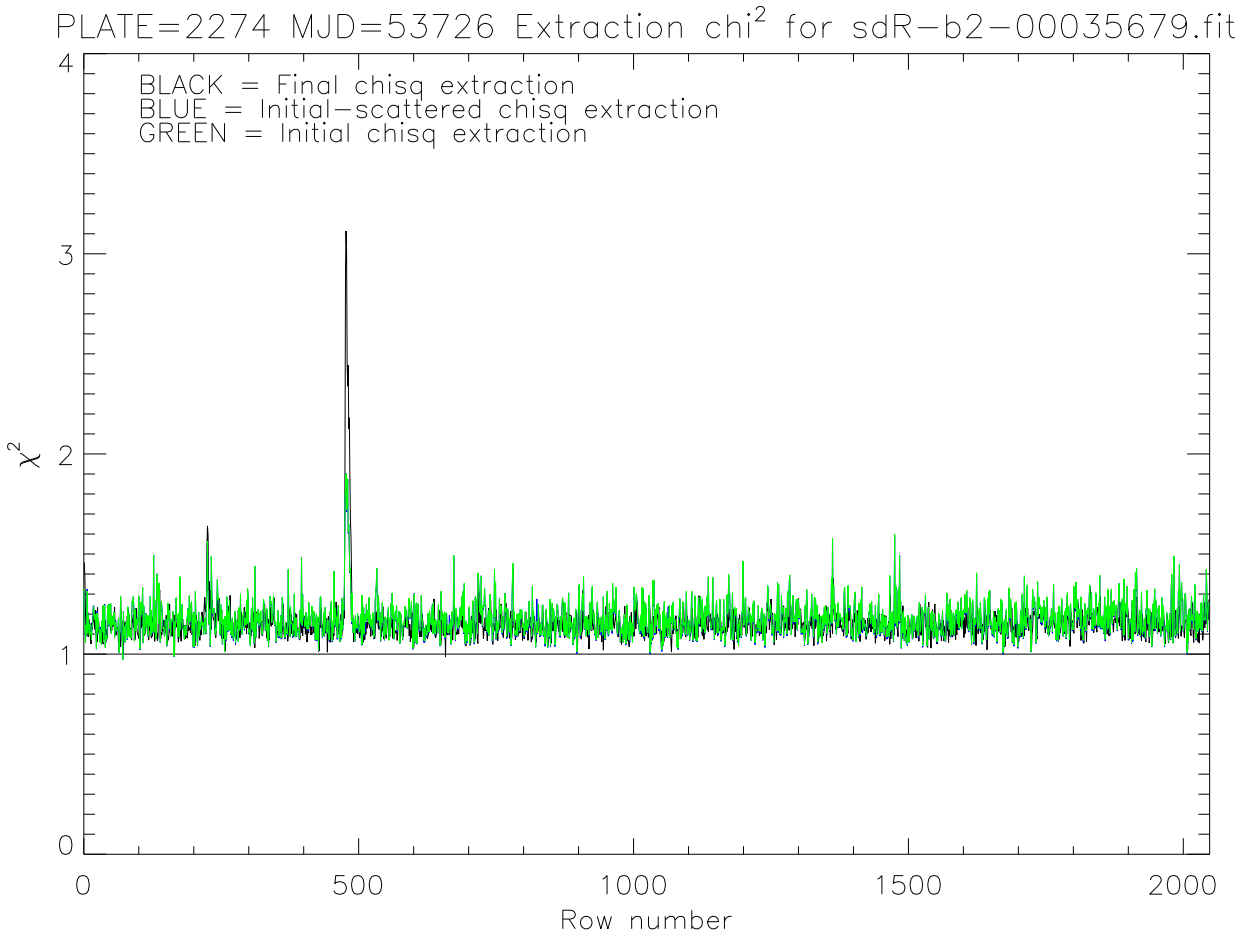

PLATE=2274 MJD=53726 Fiber-Flats for sdR-b2-00035682.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.320
Max value = 1.656
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 18:57:23 2008

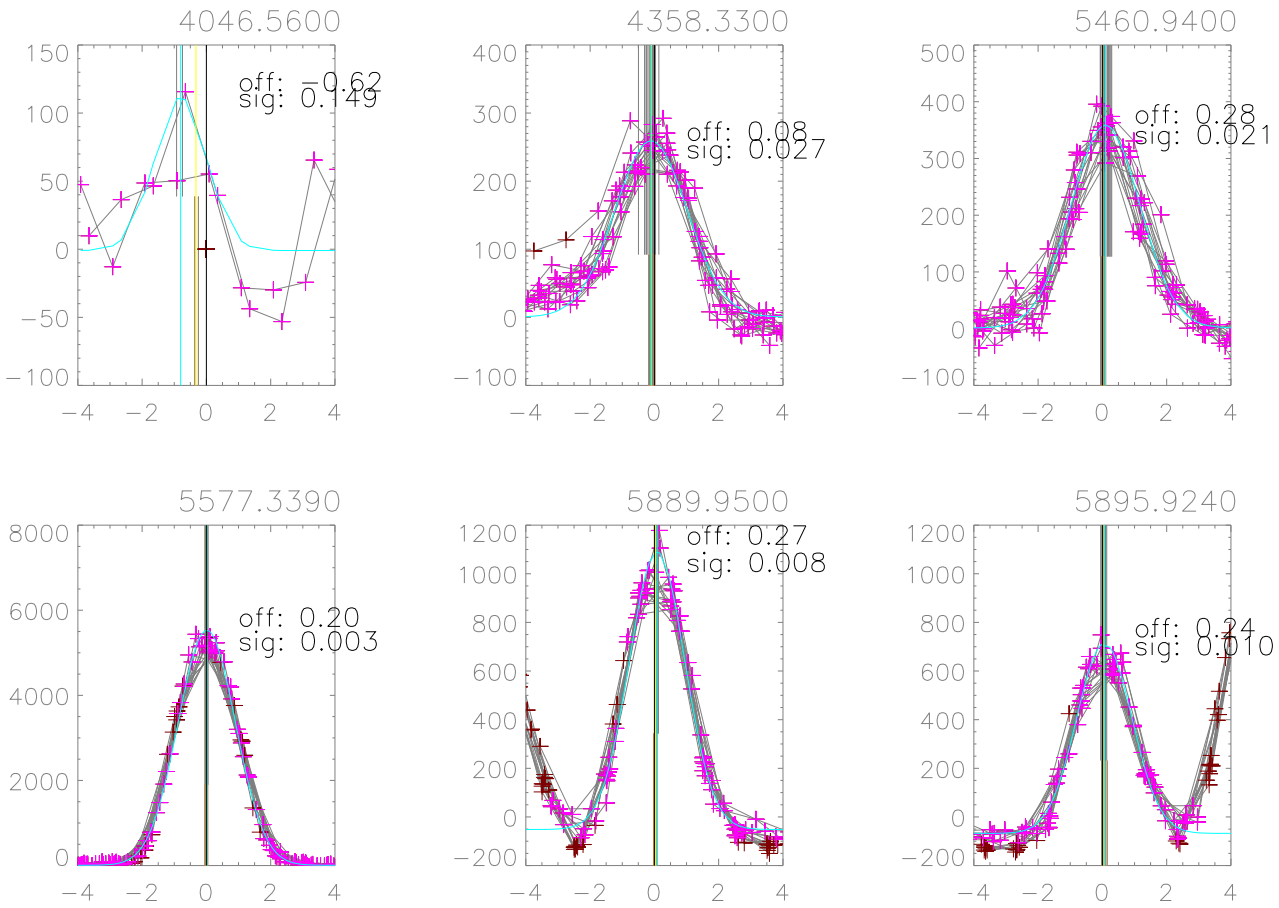

PLATE=2274 MJD=53726 Scattered Light before halo removal on sdR−b2−00035679.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
11.6
9.5
9.5
9.5

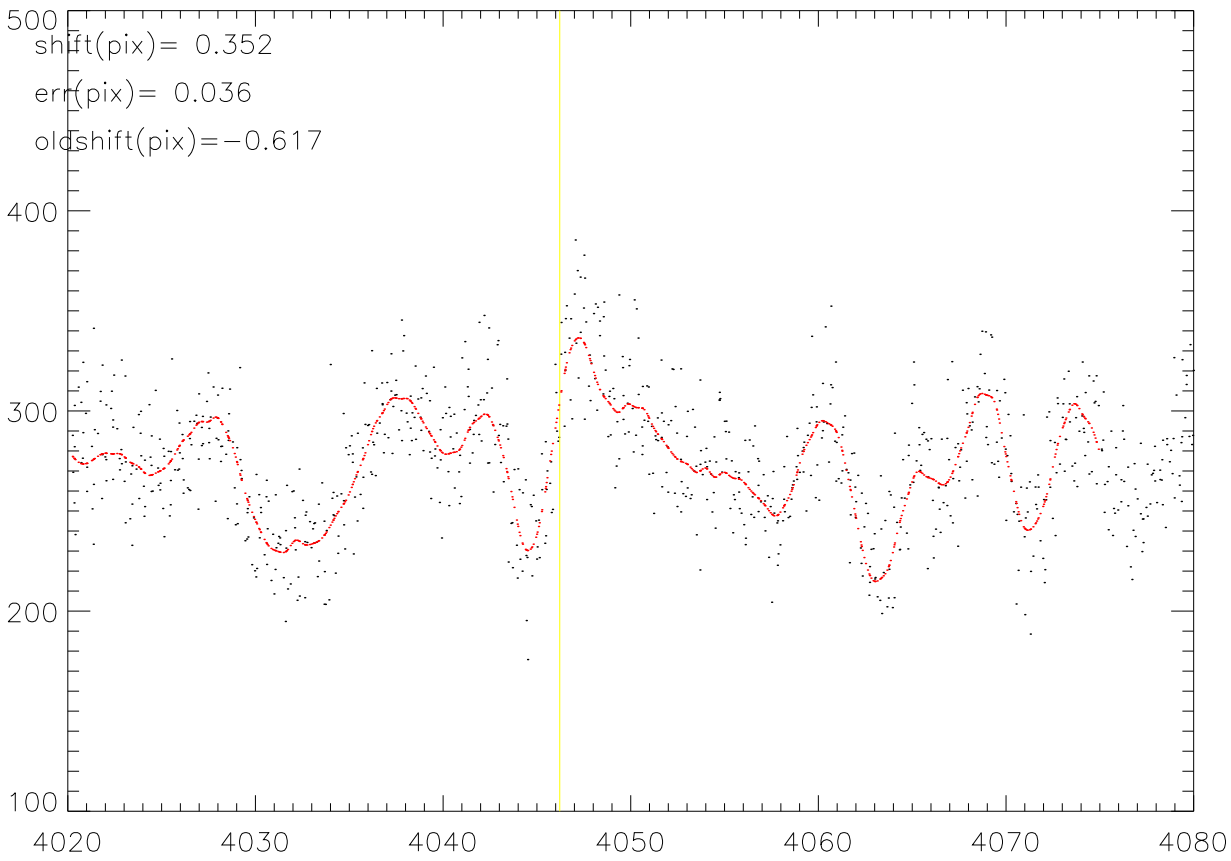

PLATE=2274 MJD=53726 Scattered Light before halo removal on sdR−b2−00035679.f
Brightness [electrons/pix]
15
10
5
0
Error bars denote full range
Min value = 8.087
Max value = 12.607
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 18:58:07 2008

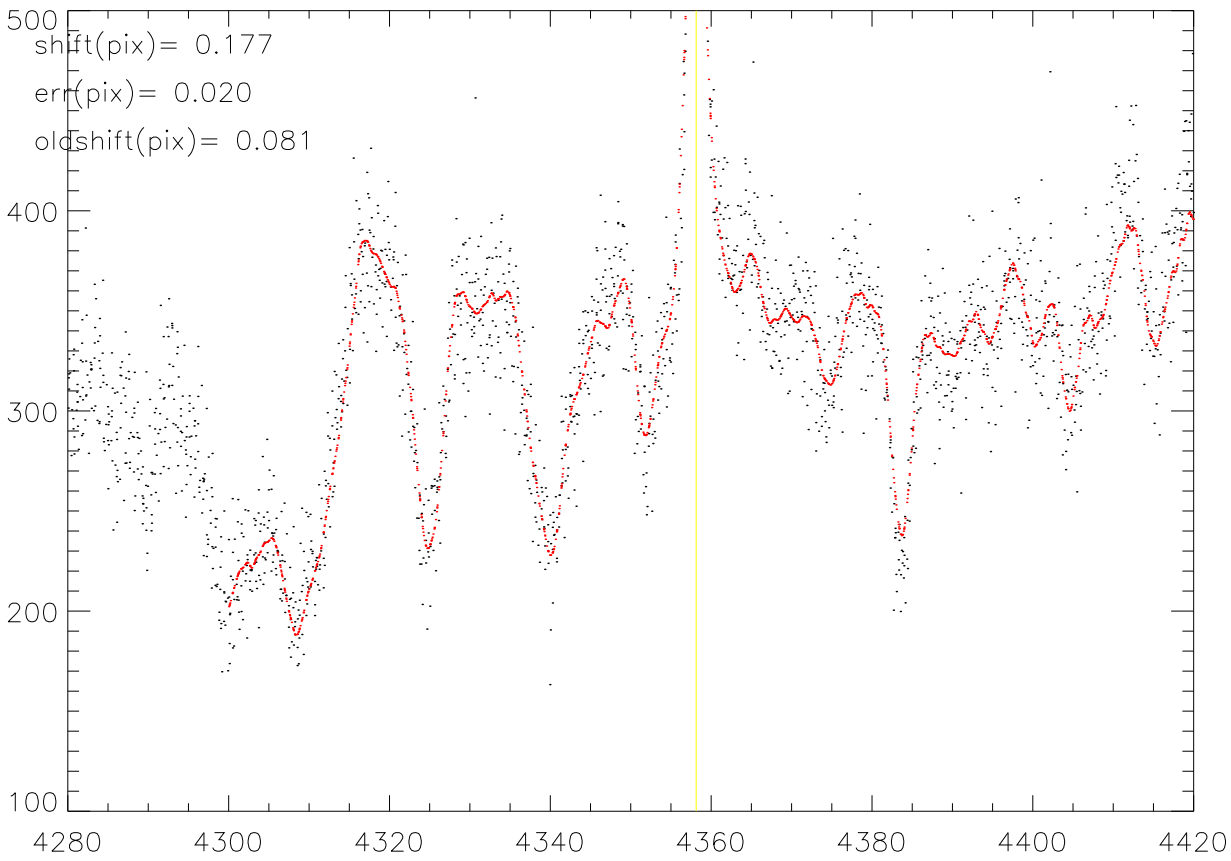

PLATE=2274 MJD=53726 Scattered Light on sdR-b2-00035679.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
0
7.09
5.64
4.18
2.73
4.18
5.64
7.09
5.64
4.18
5.64
4.18
4.18
4.18
0
0
0
0

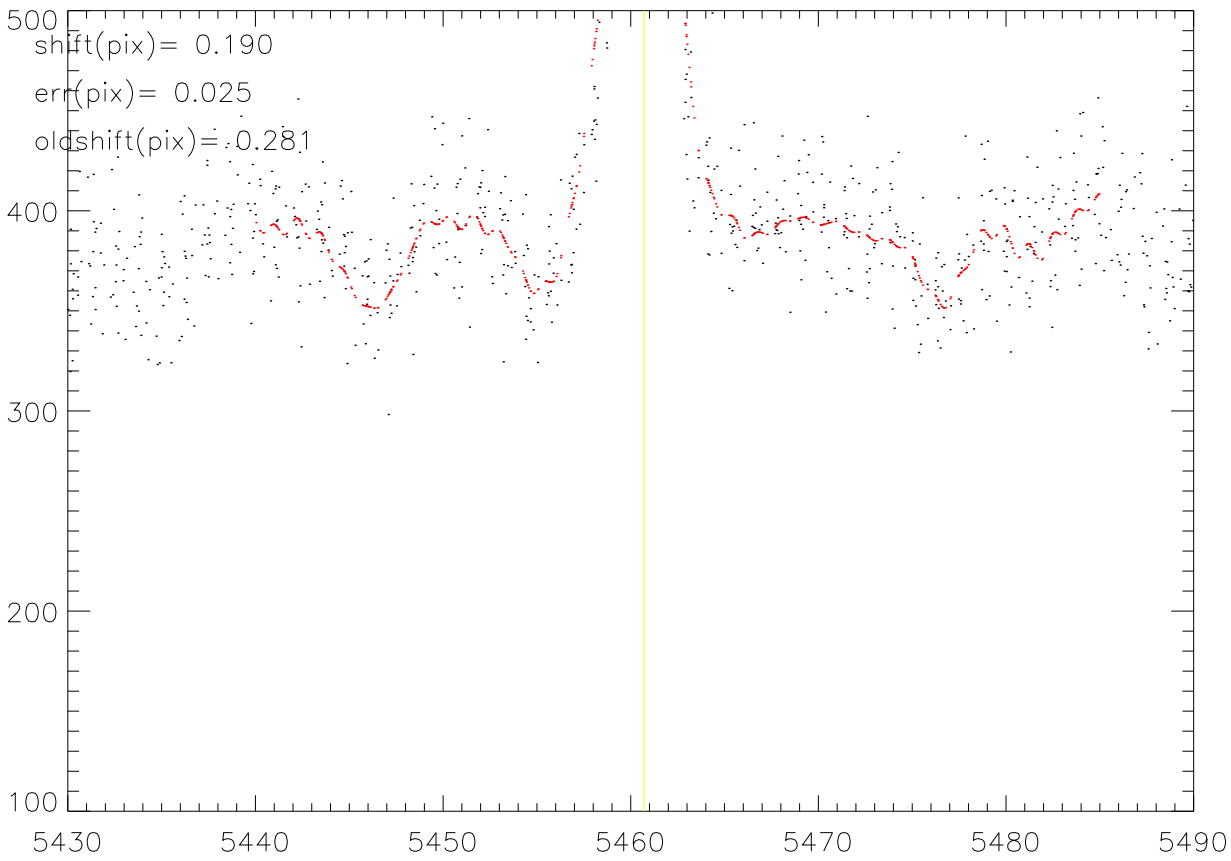

PLATE=2274 MJD=53726 Scattered Light on sdR-b2-00035679.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.091
Max value = 7.313
Sat Feb 16 19:00:15 2008

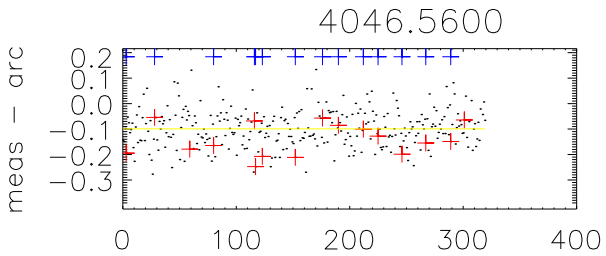

PLATE=2274 MJD=53726 Extraction chi^2 for sdR-b2-00035679.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

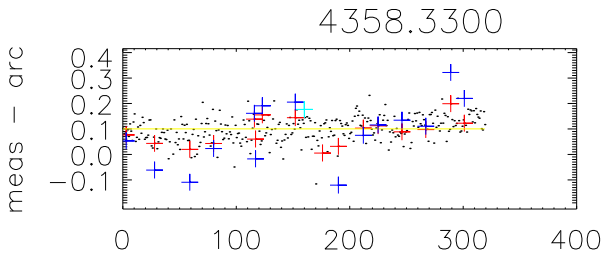

4046.5600
off: −0.62
sig: 0.149
4358.3300
off: 0.08
sig: 0.027
5460.9400
off: 0.28
sig: 0.021
5577.3390
off: 0.20
sig: 0.003
5889.9500
off: 0.27
sig: 0.008
5895.9240
off: 0.24
sig: 0.010

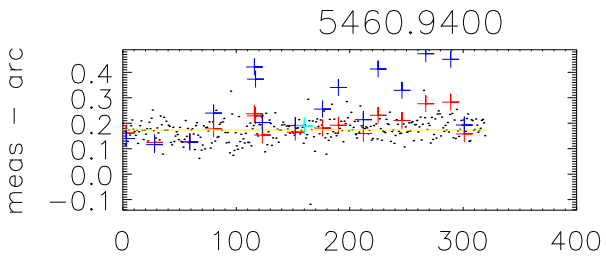

shift(pix)= 0.352
err(pix)= 0.036
oldshift(pix)=−0.617
500
400
300
200
100
4020
4030
4040
4050
4060
4070
4080

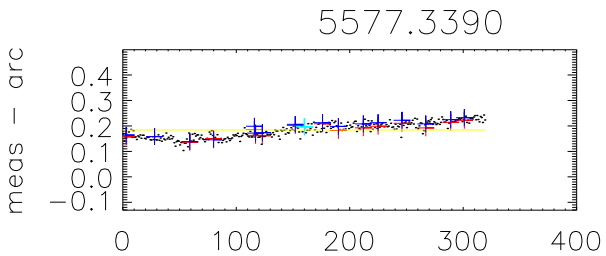

shift(pix)= 0.177
err(pix)= 0.020
oldshift(pix)= 0.081
500
400
300
200
100
4280
4300
4320
4340
4360
4380
4400
4420

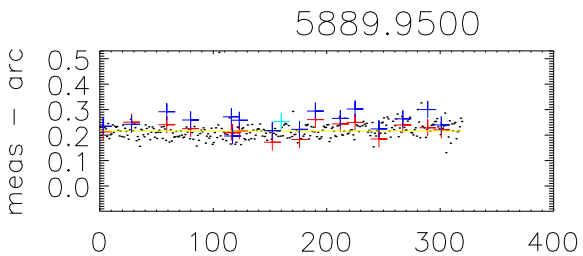

shift(pix)= 0.190
err(pix)= 0.025
oldshift(pix)= 0.281
500
400
300
200
100
5430
5440
5450
5460
5470
5480
5490

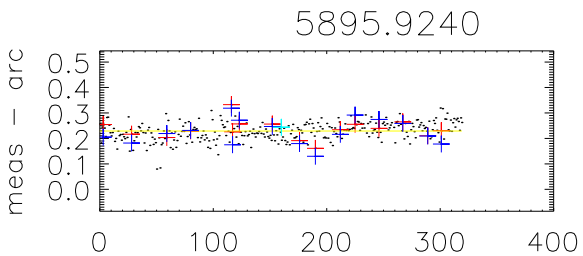

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

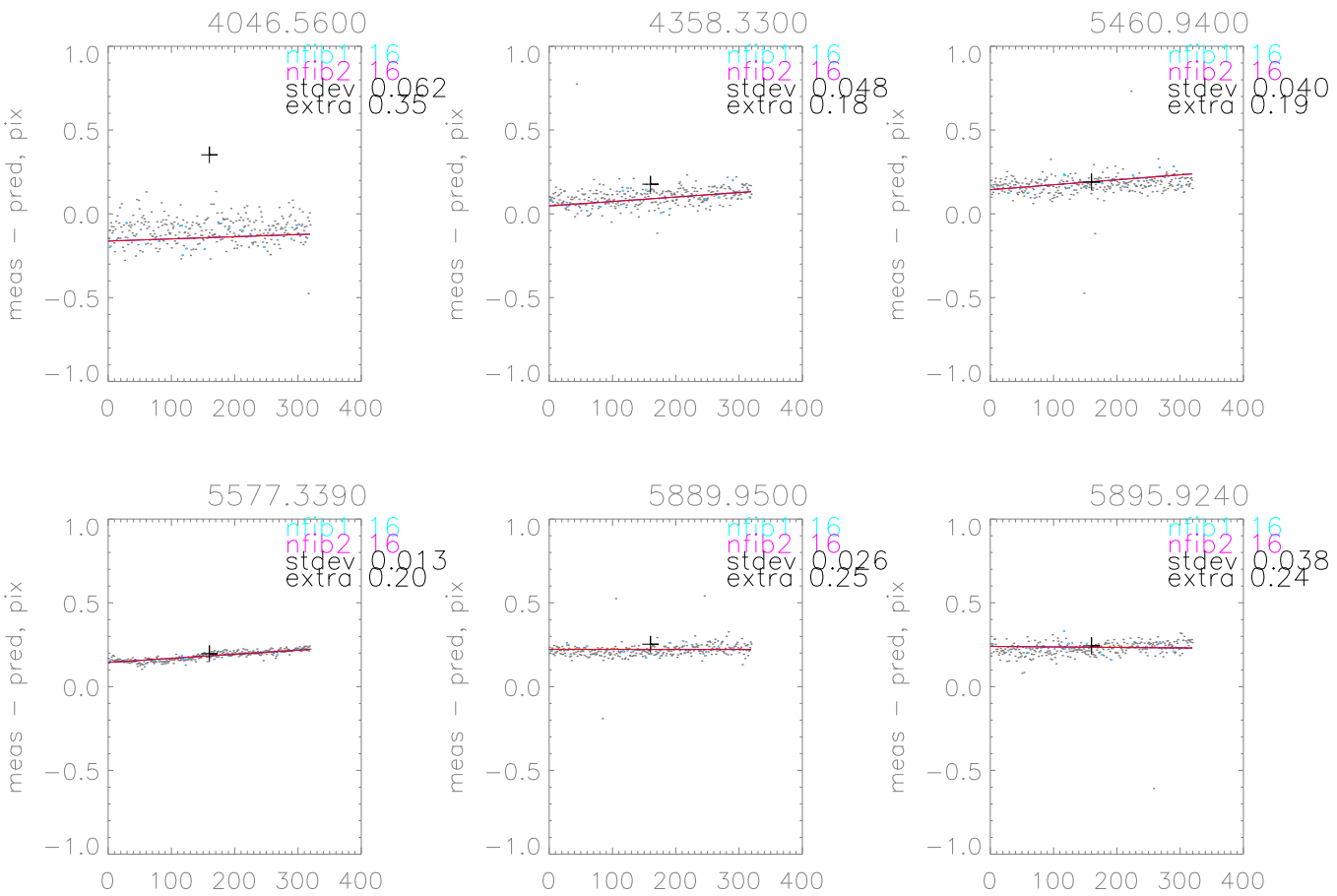

4358.3300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

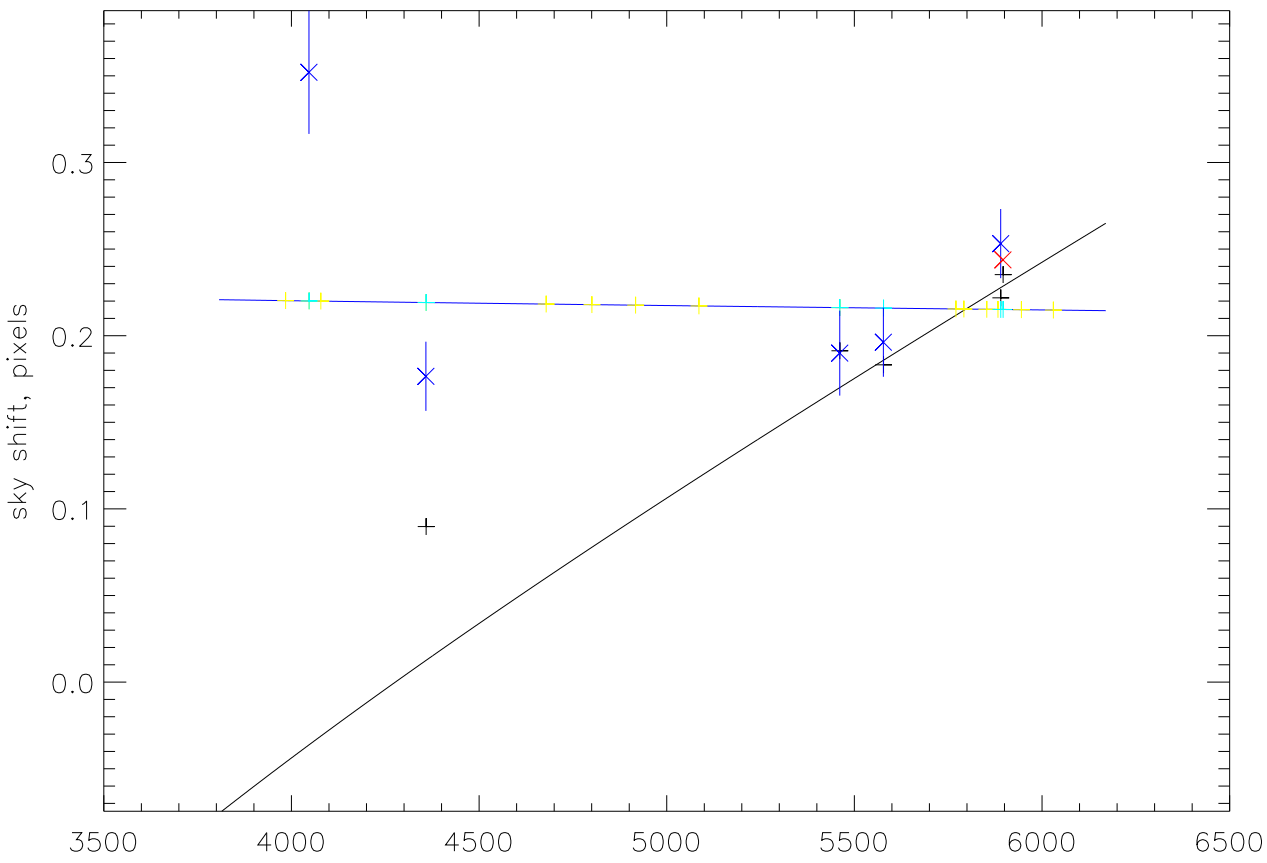

5460.9400
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

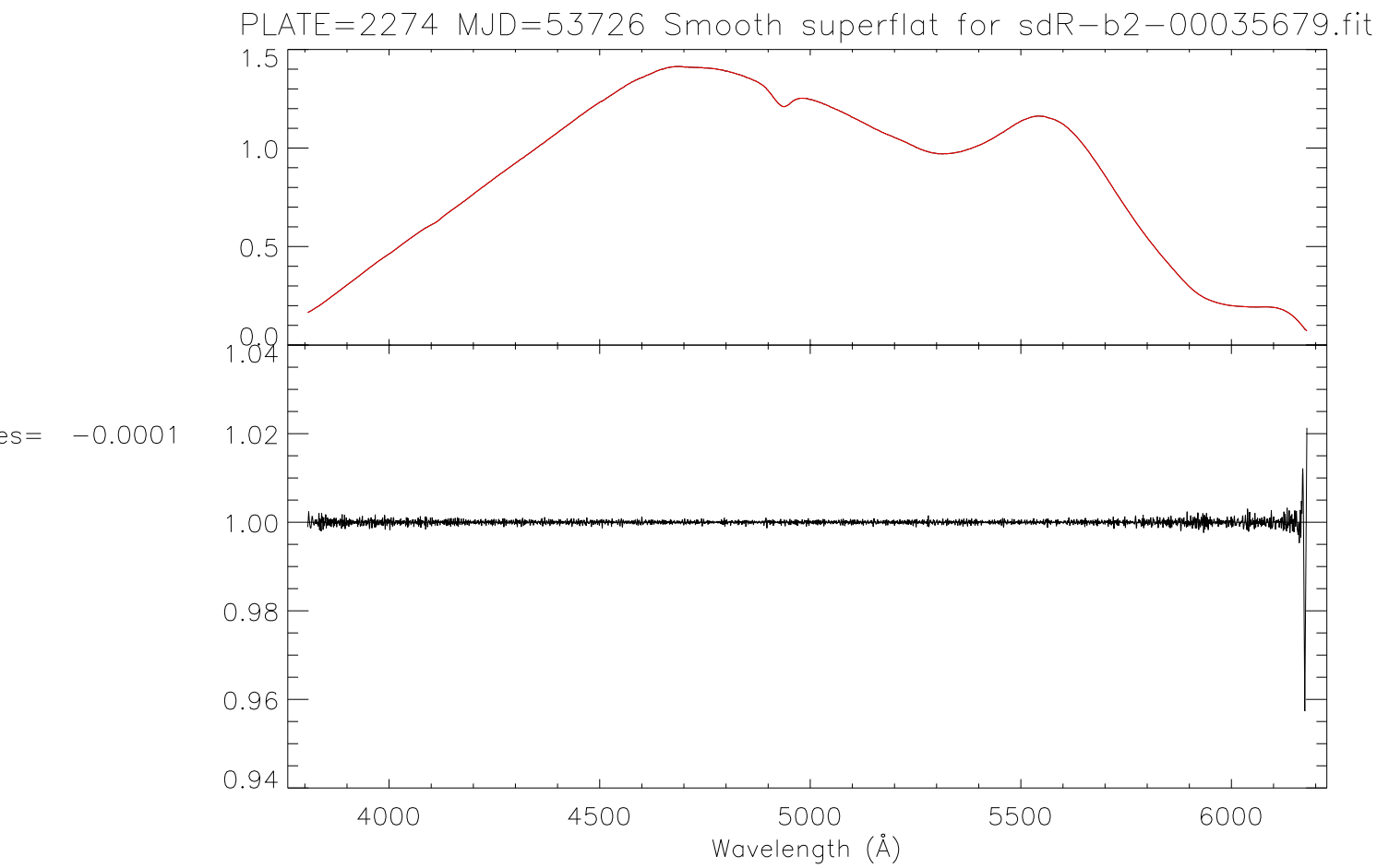

5577.3390
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


5889.9500
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

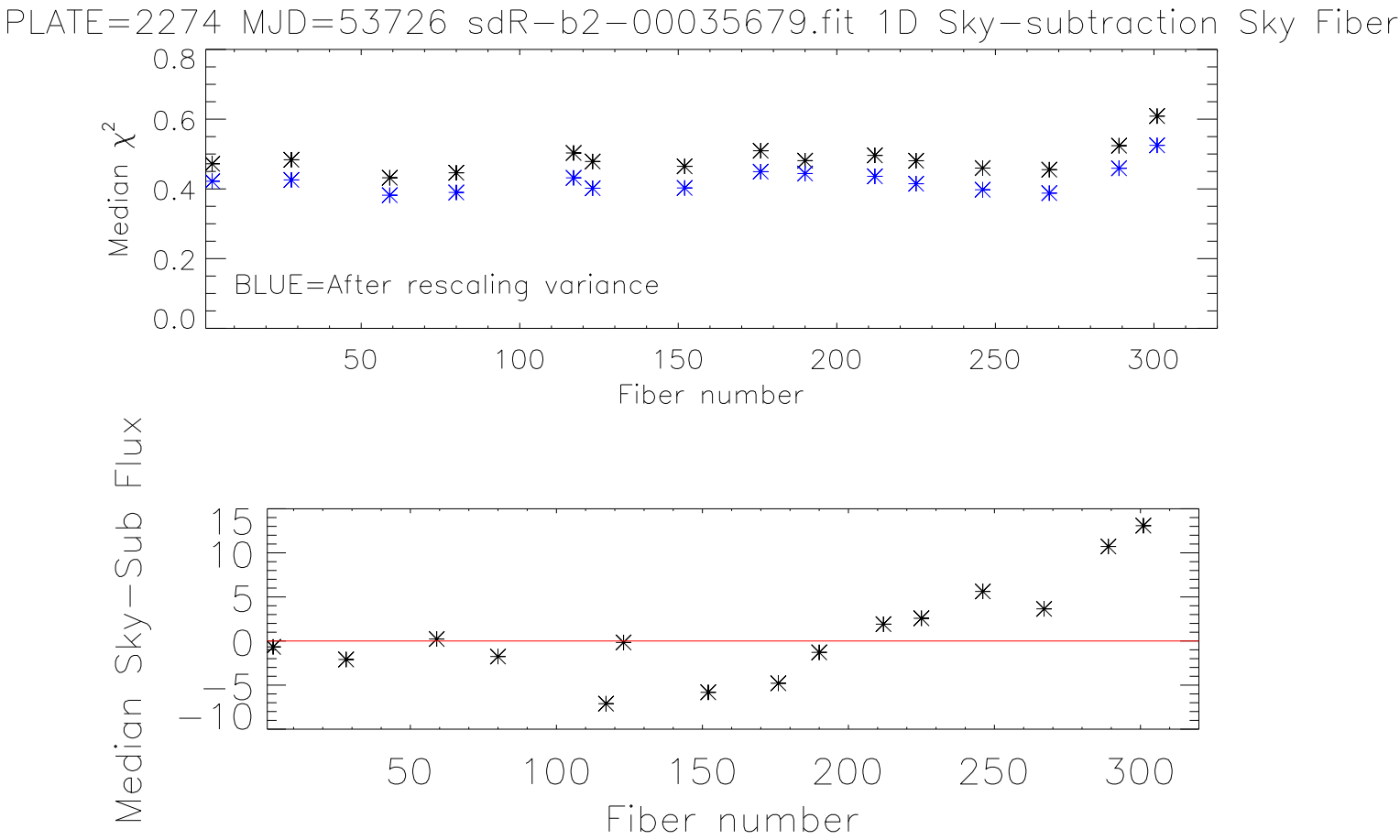

5895.9240
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

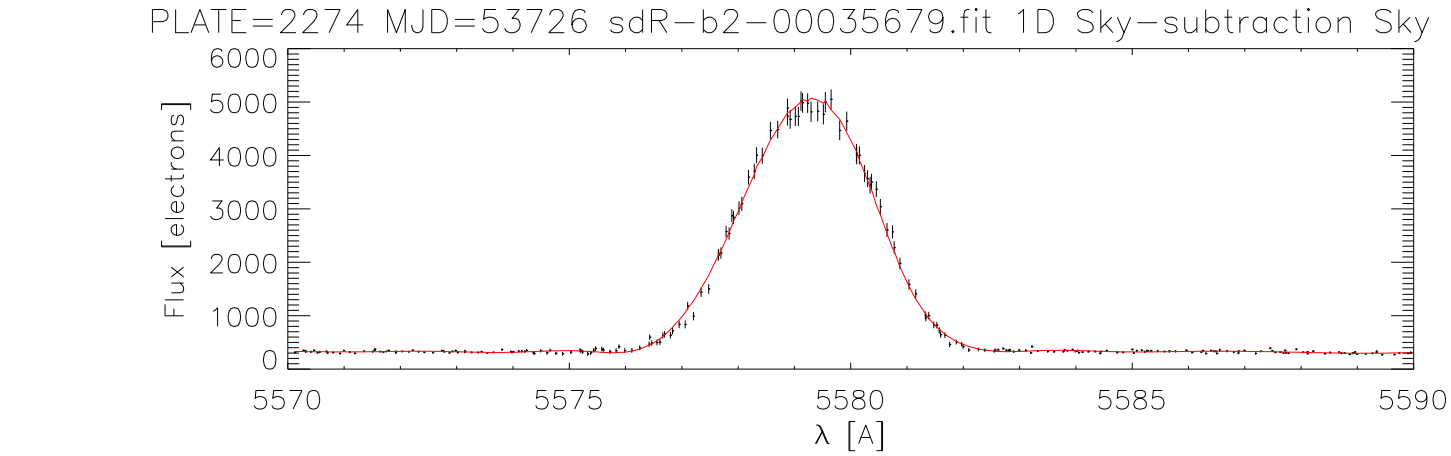

4046.5600
nfib1 16
nfib2 16
stdev 0.062
extra 0.35
4358.3300
nfib1 16
nfib2 16
stdev 0.048
extra 0.18
5460.9400
nfib1 16
nfib2 16
stdev 0.040
extra 0.19
5577.3390
nfib1 16
nfib2 16
stdev 0.013
extra 0.20
5889.9500
nfib1 16
nfib2 16
stdev 0.026
extra 0.25
5895.9240
nfib1 16
nfib2 16
stdev 0.038
extra 0.24
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

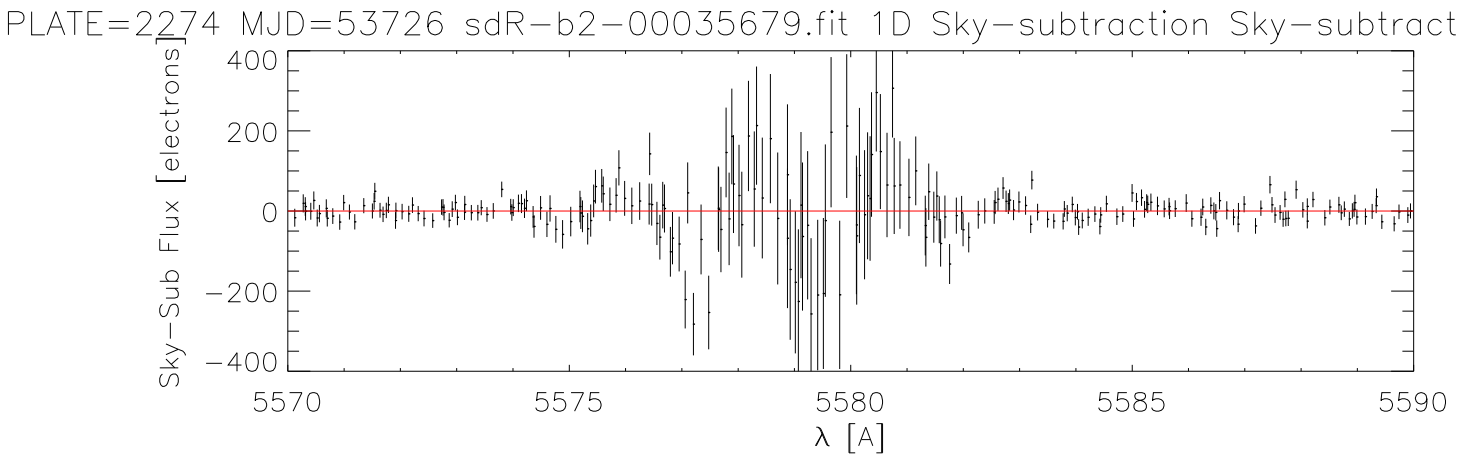

sky shift, pixels
0.3
0.2
0.1
0.0
3500
4000
4500
5000
5500
6000
6500

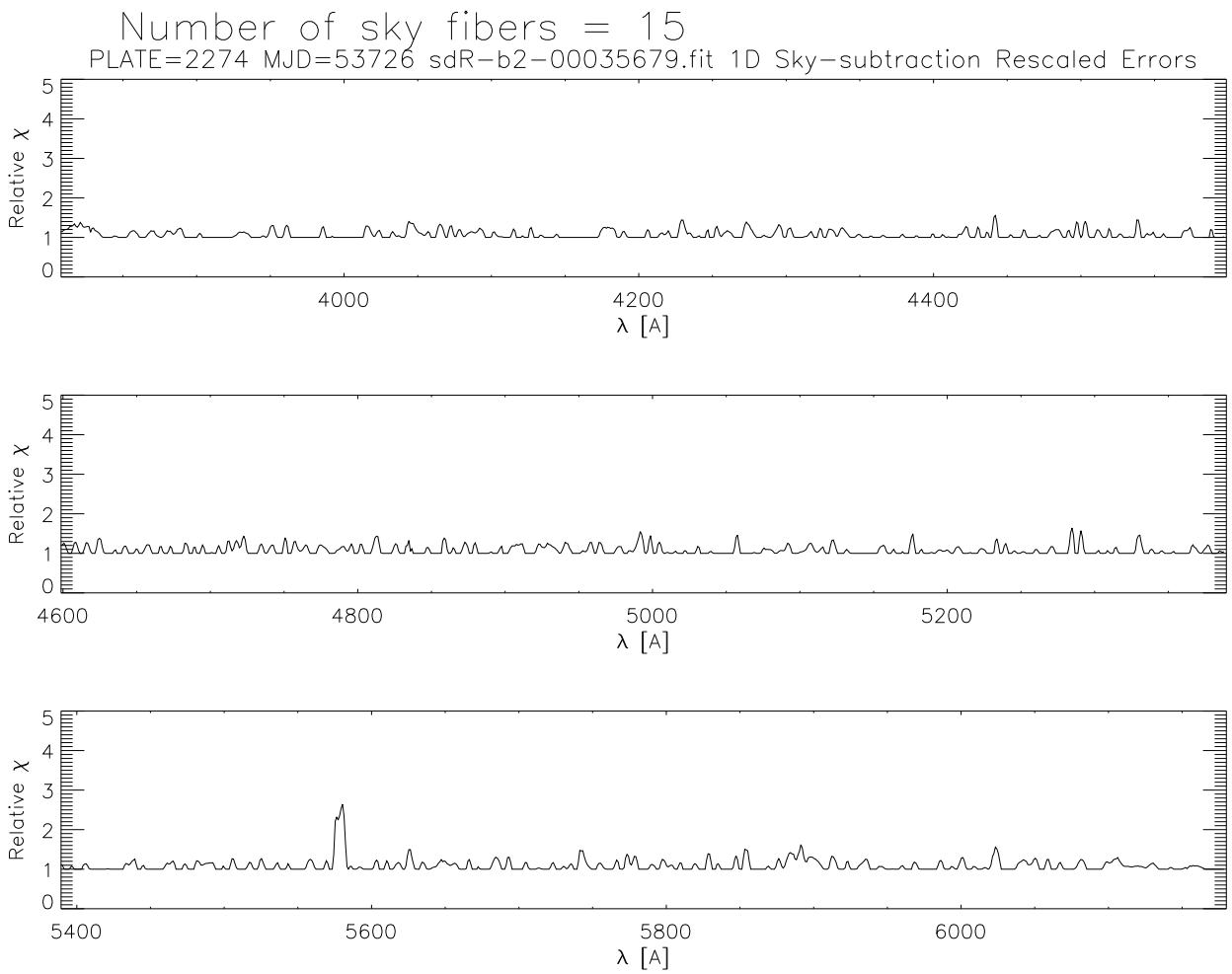

PLATE=2274 MJD=53726 Smooth superflat for sdR-b2-00035679.fit
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
0.94
4000
4500
5000
5500
6000
Wavelength (Å)

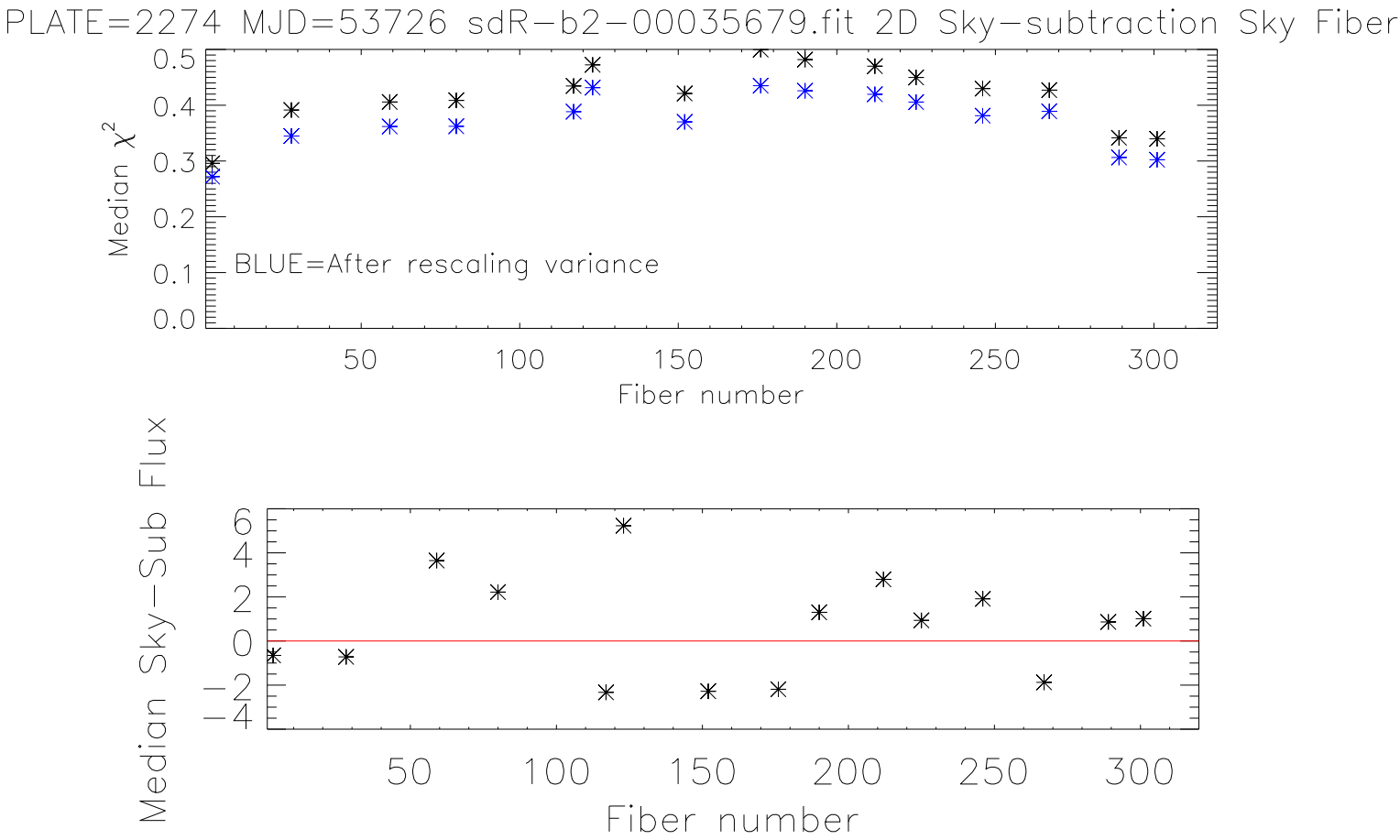
es= −0.0001

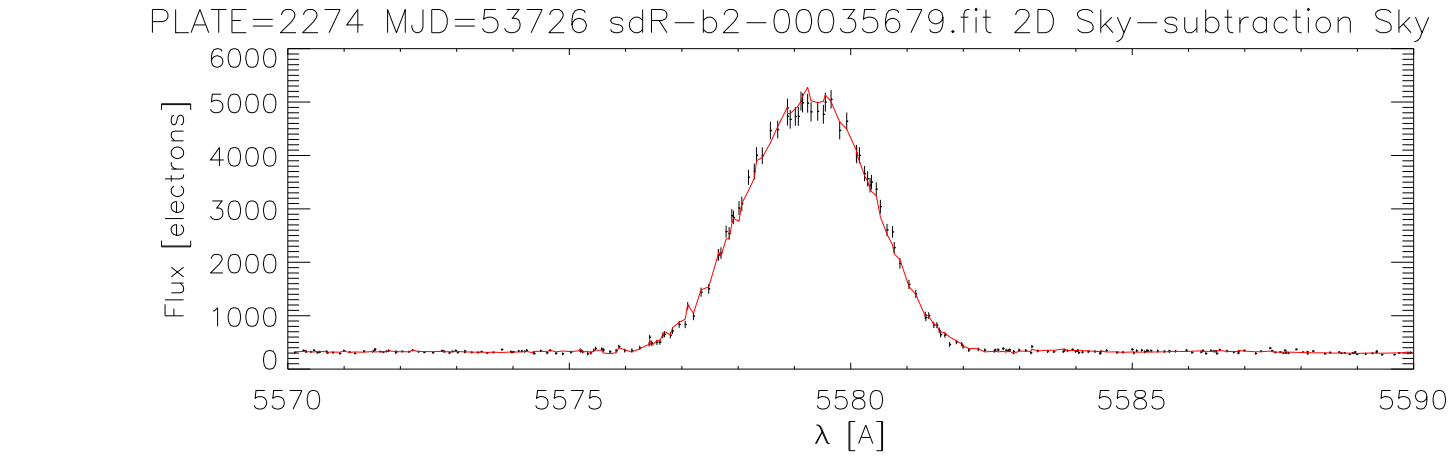

PLATE=2274 MJD=53726 sdR-b2-00035679.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
−10
−5
0
5
10
15
50
100
150
200
250
300
Fiber number

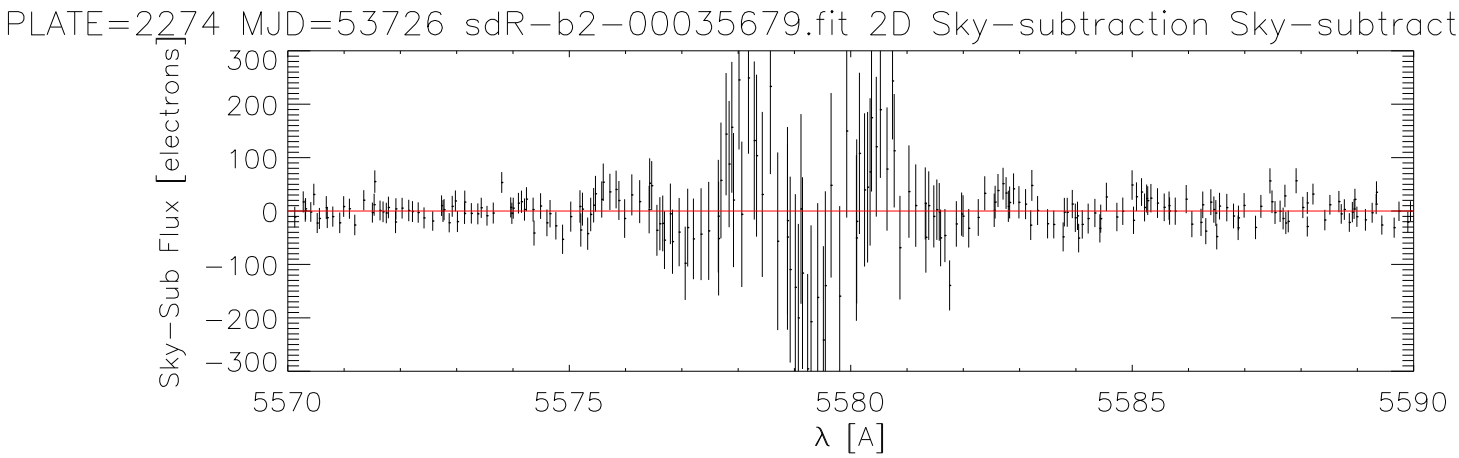

PLATE=2274 MJD=53726 sdR-b2-00035679.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

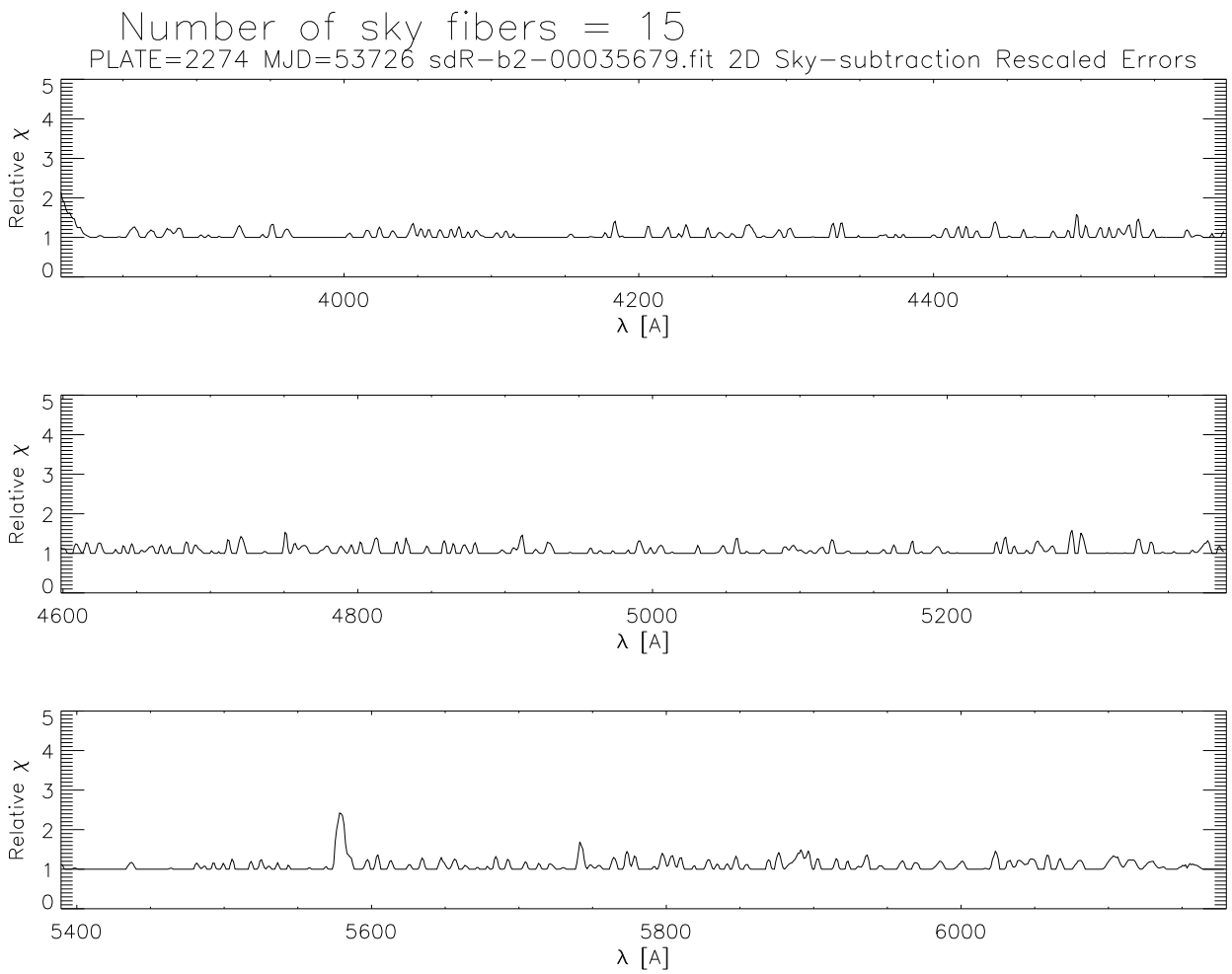

PLATE=2274 MJD=53726 sdR-b2-00035679.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

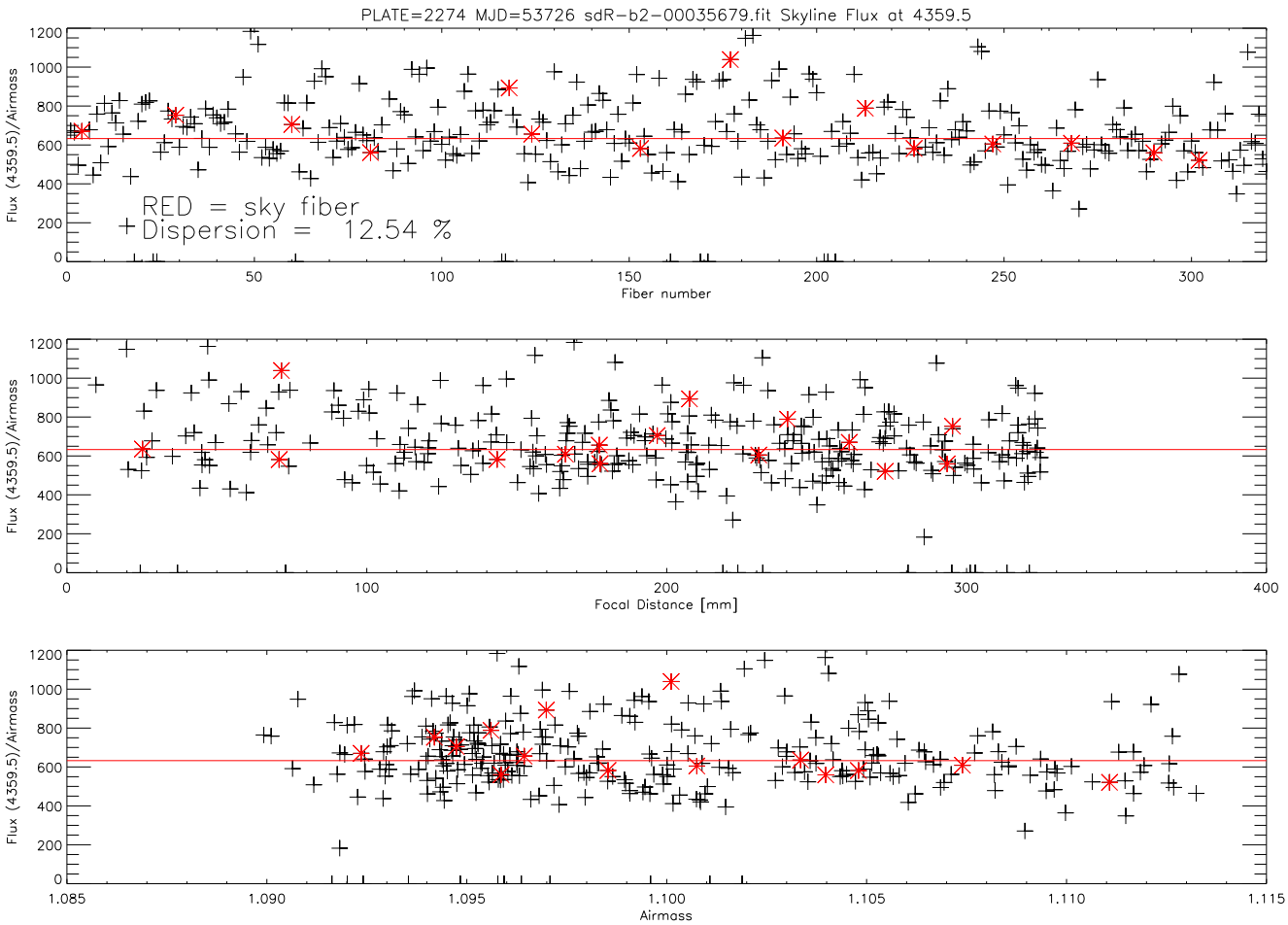

Number of sky fibers = 15
PLATE=2274 MJD=53726 sdR-b2-00035679.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

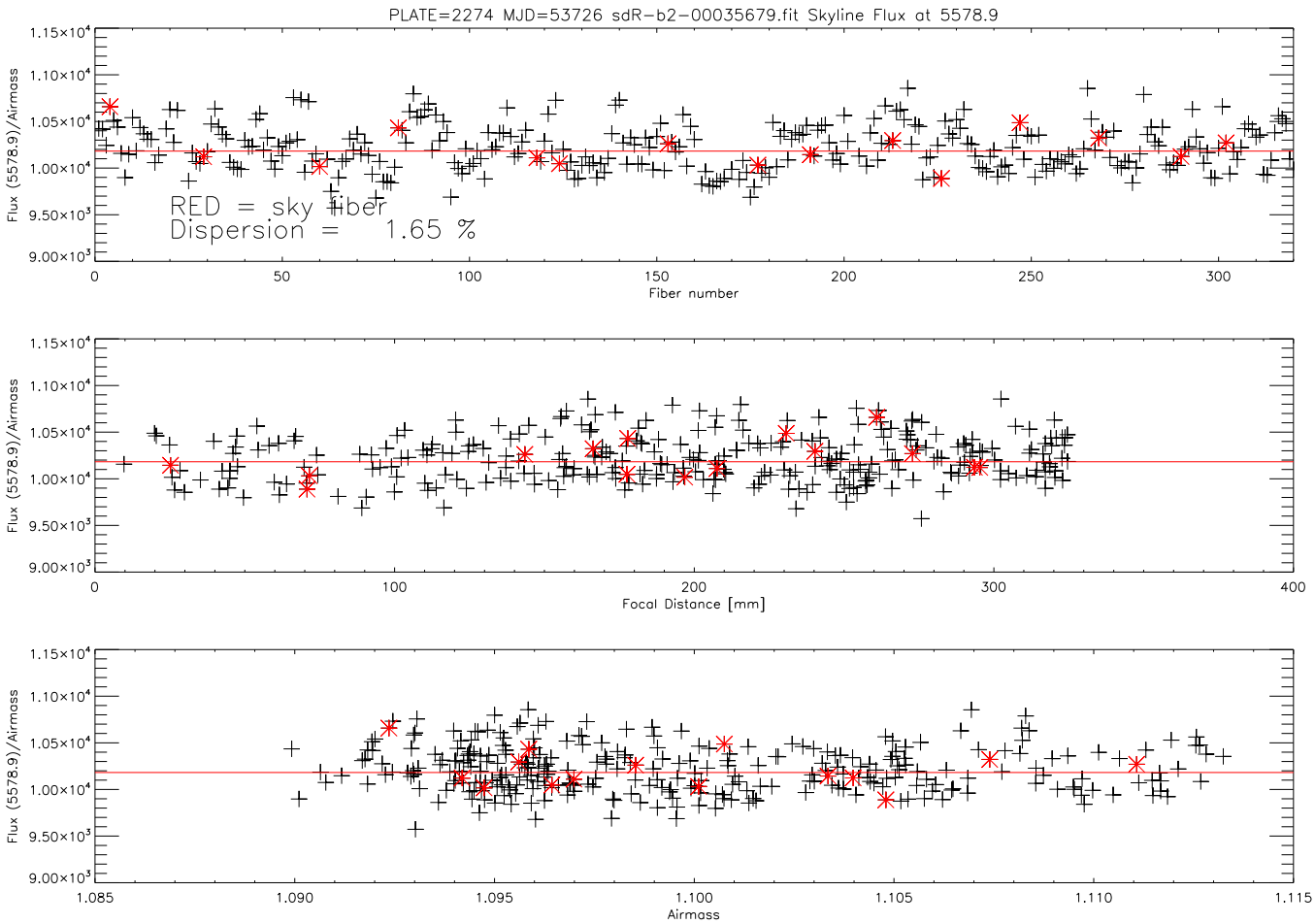

PLATE=2274 MJD=53726 sdR-b2-00035679.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

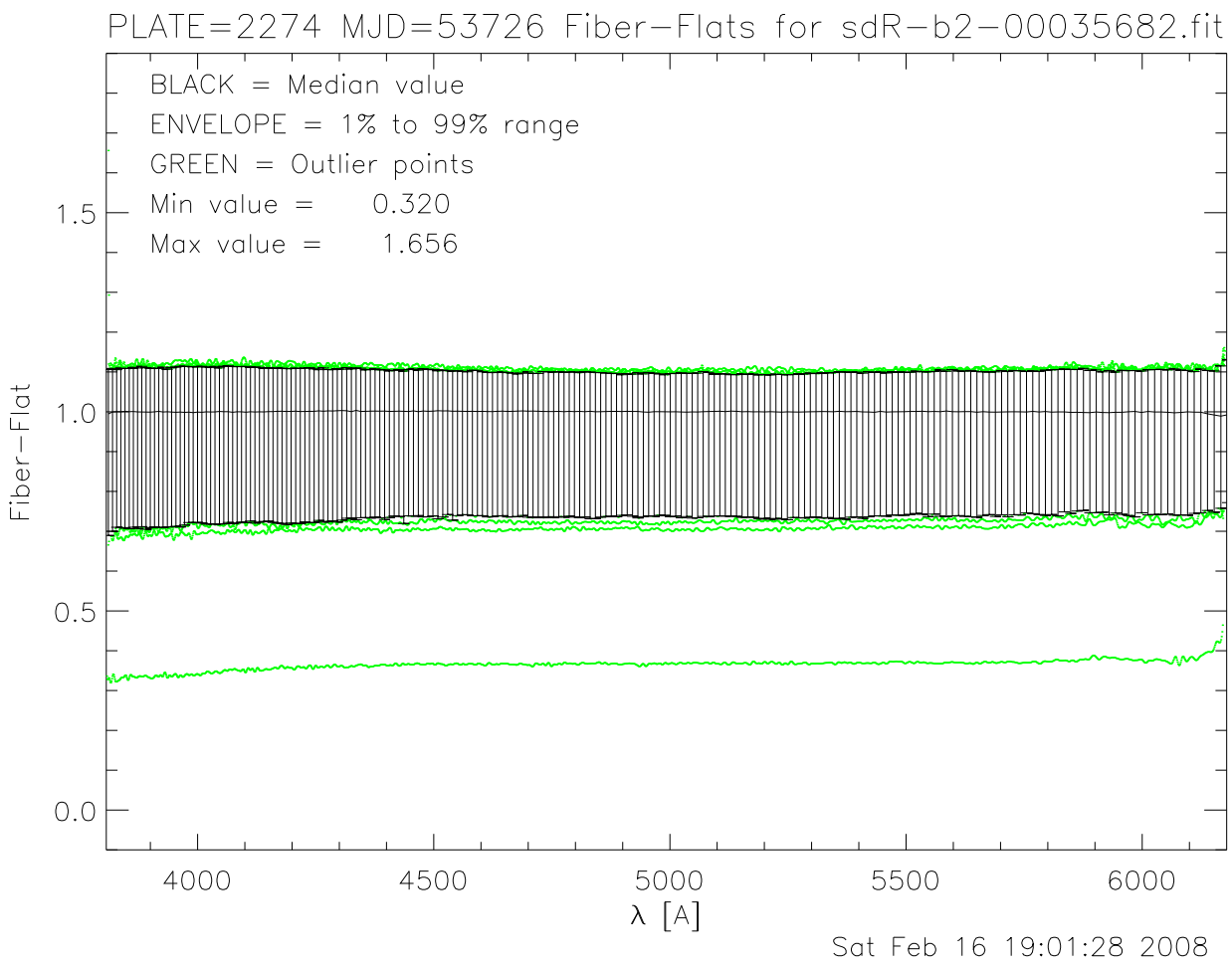

PLATE=2274 MJD=53726 sdR-b2-00035679.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

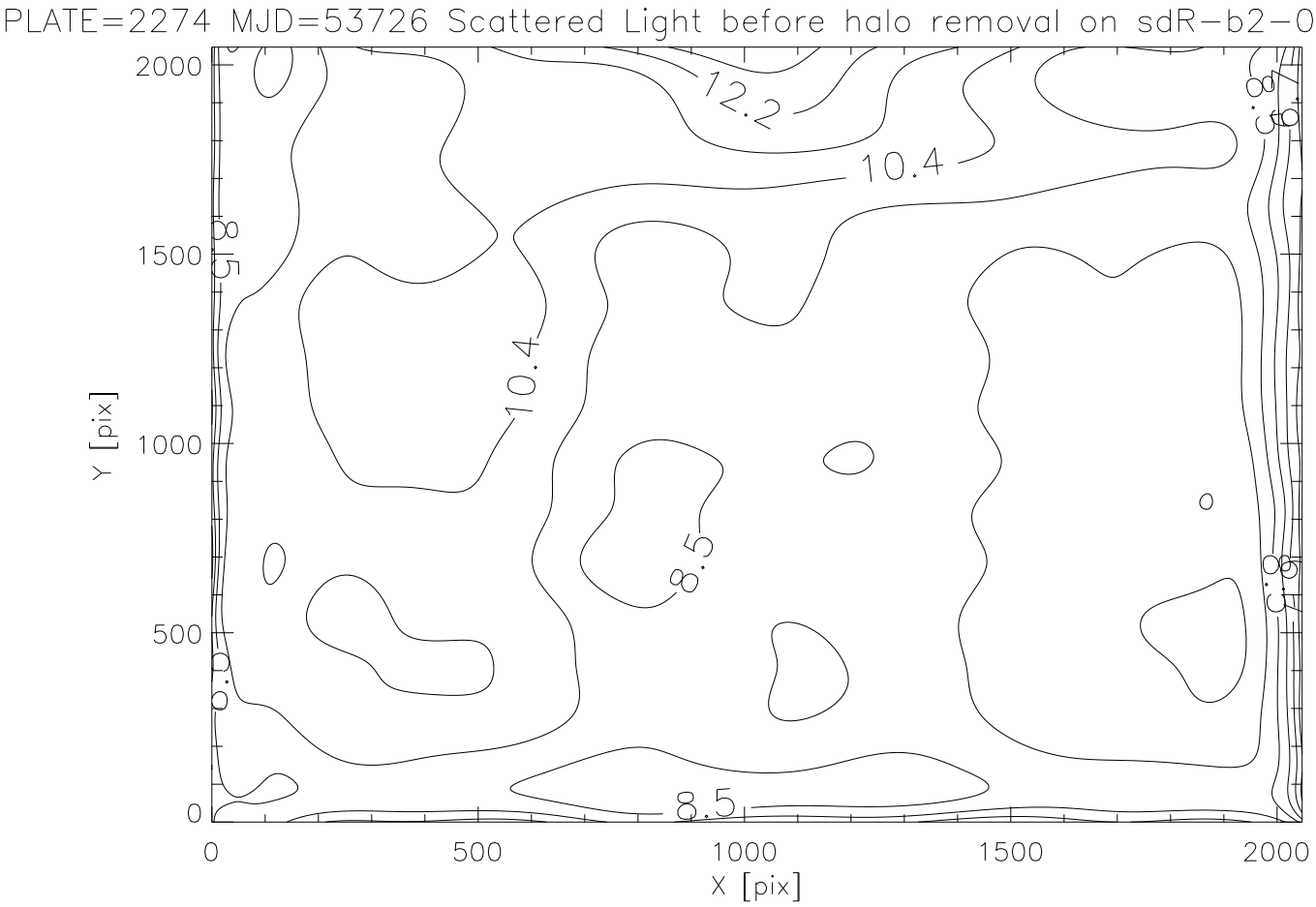

PLATE=2274 MJD=53726 sdR-b2-00035679.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

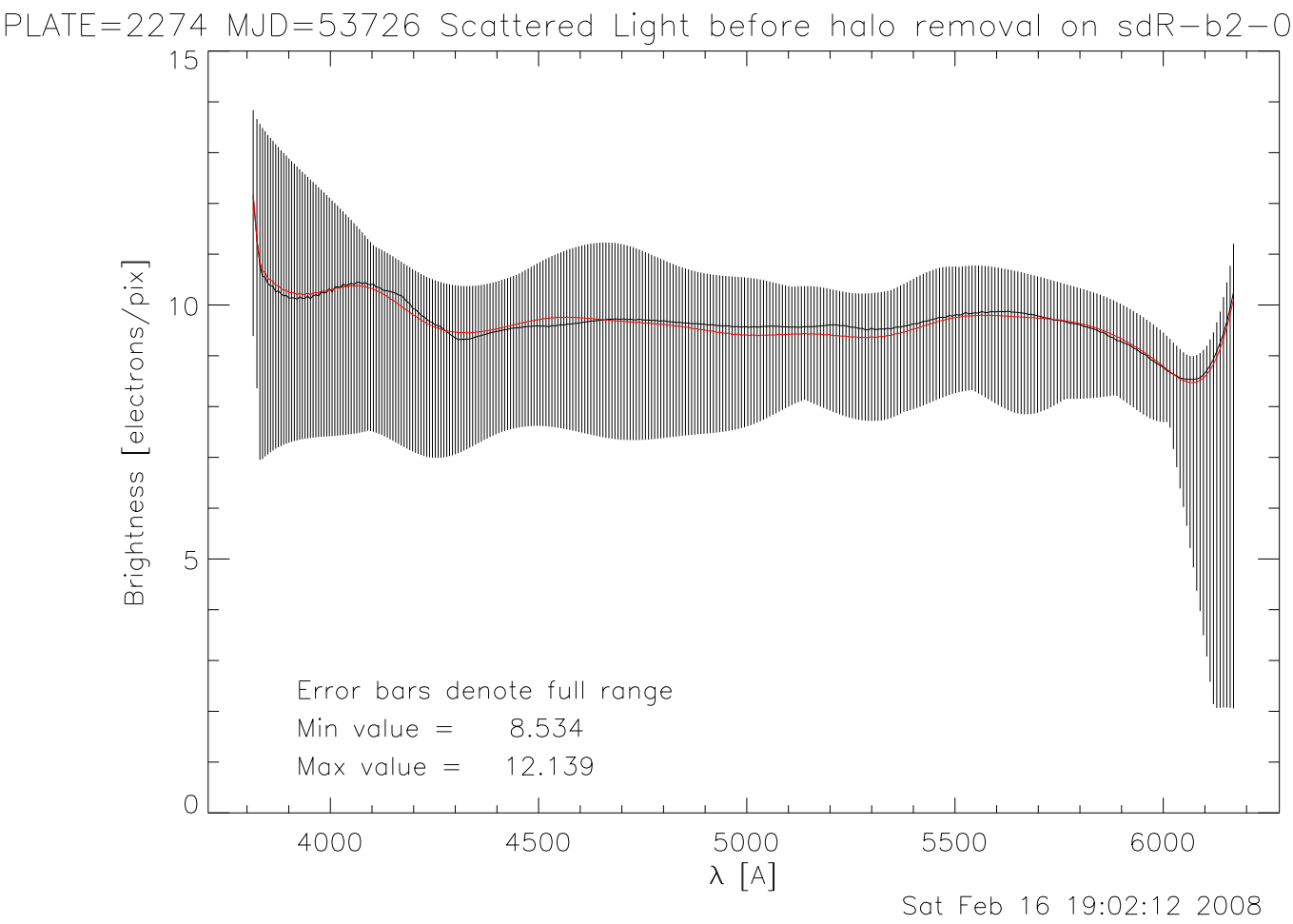

Number of sky fibers = 15
PLATE=2274 MJD=53726 sdR-b2-00035679.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

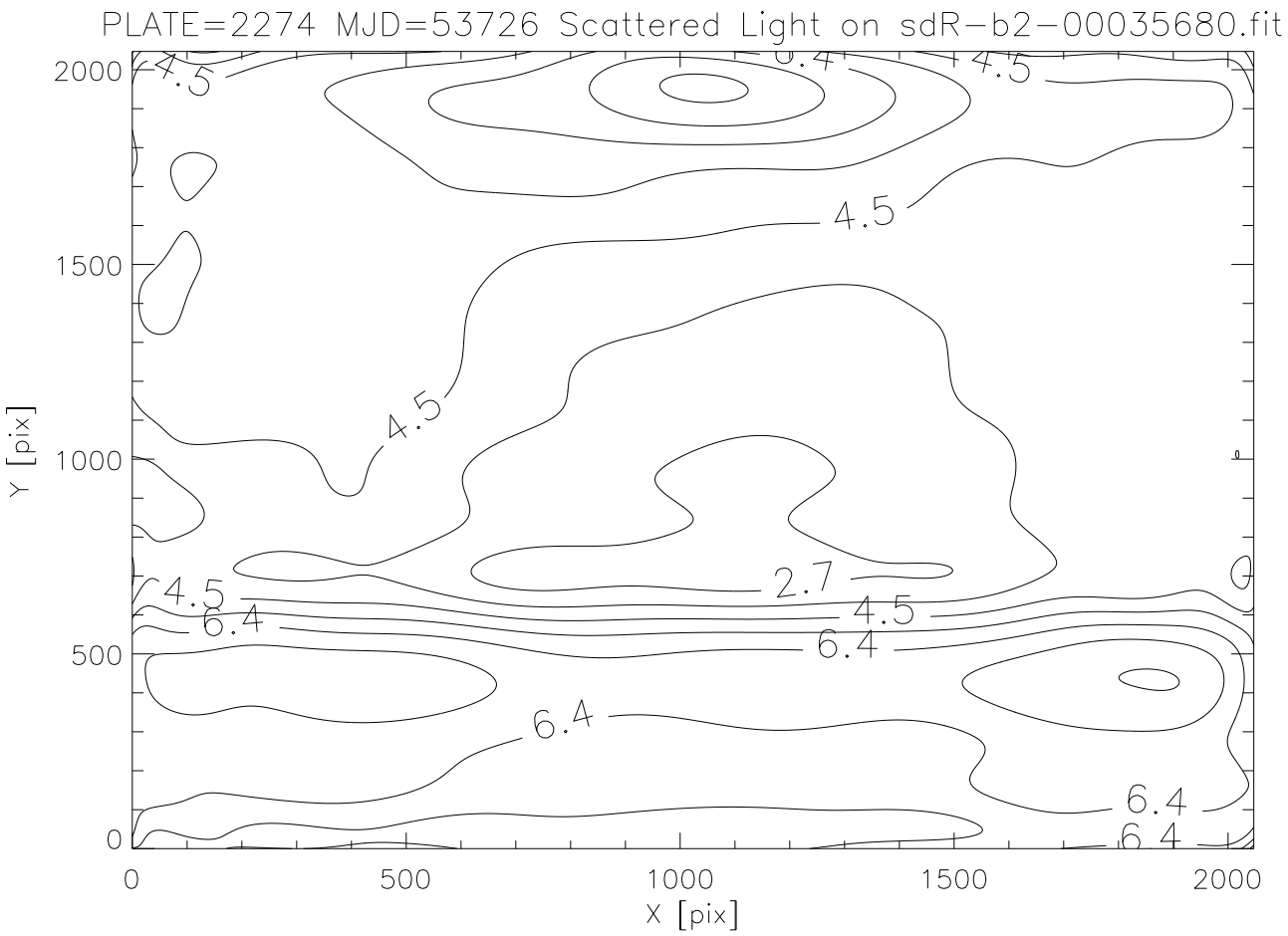

PLATE=2274 MJD=53726 sdR-b2-00035679.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 12.54 %
Fiber number
Focal Distance [mm]
Airmass

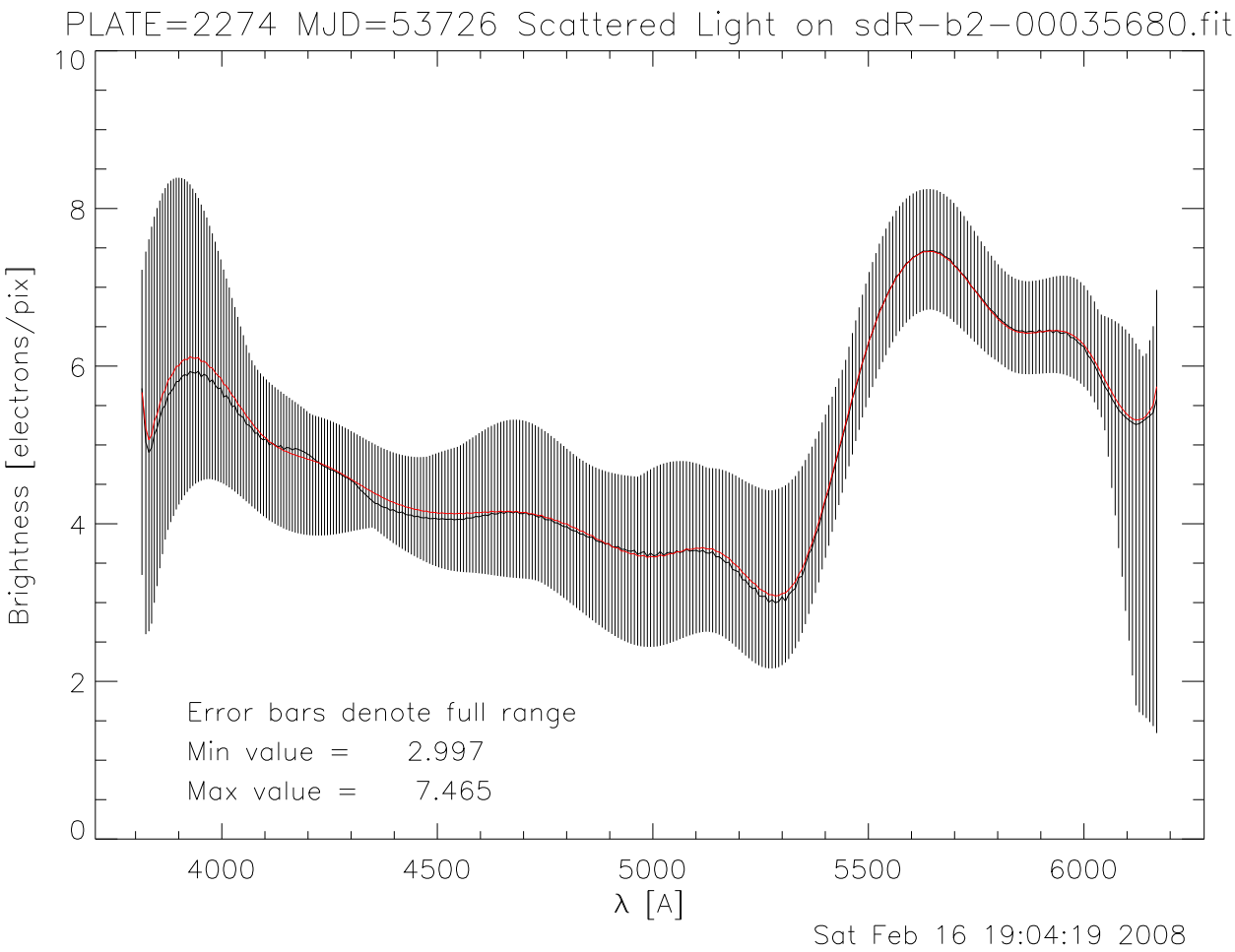

PLATE=2274 MJD=53726 sdR-b2-00035679.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.65 %
Fiber number
Focal Distance [mm]
Airmass

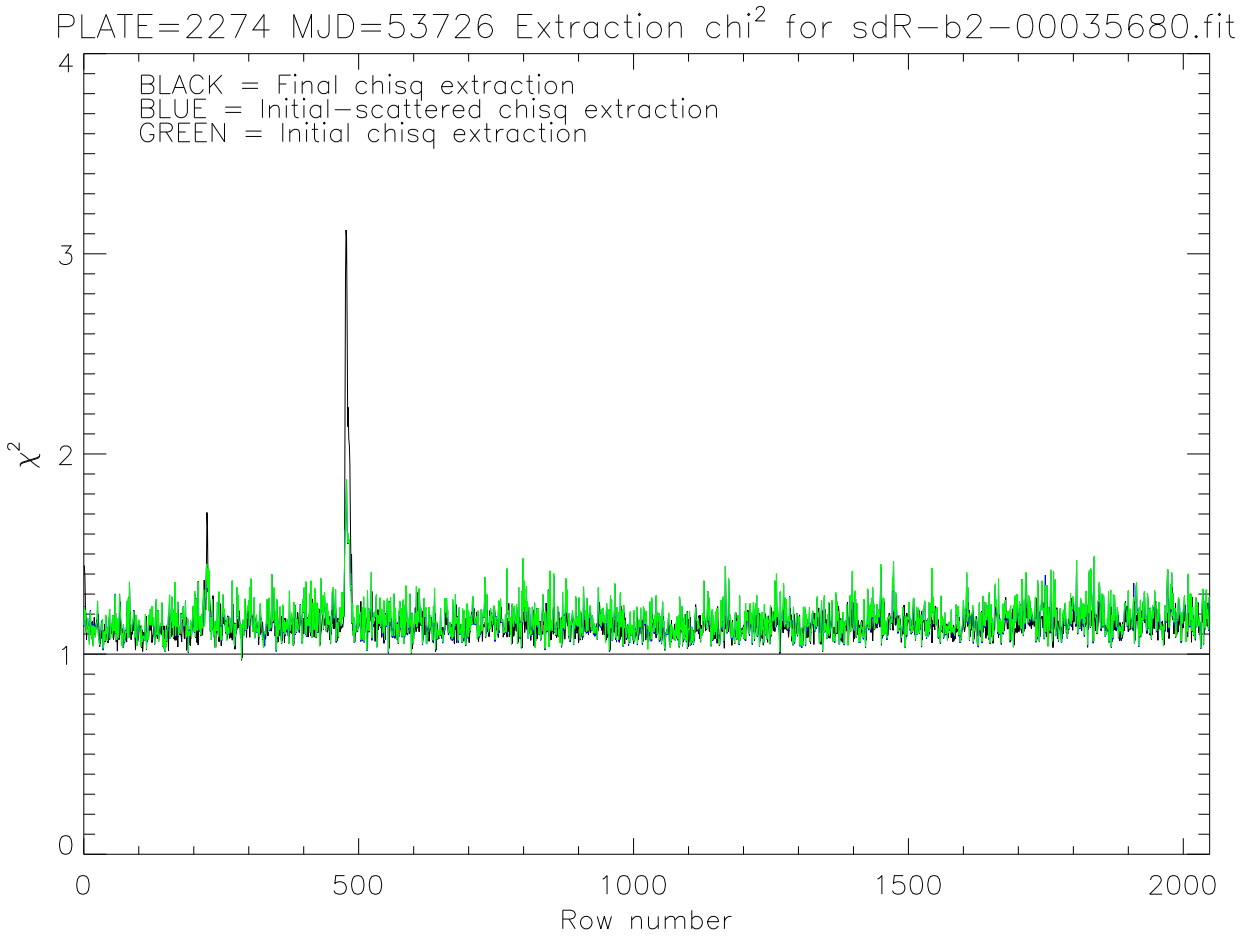

PLATE=2274 MJD=53726 Fiber-Flats for sdR-b2-00035682.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.320
Max value = 1.656
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 19:01:28 2008

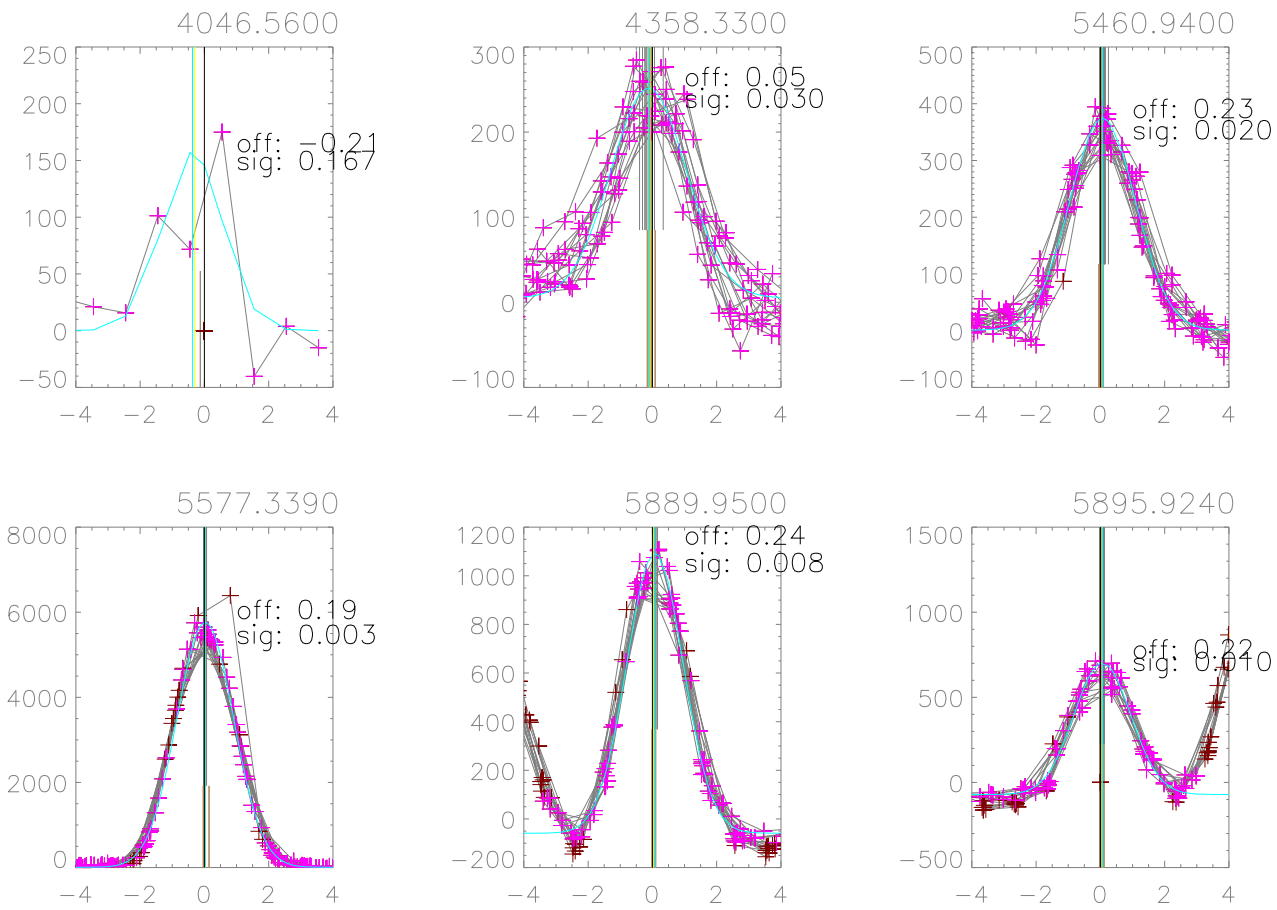

PLATE=2274 MJD=53726 Scattered Light before halo removal on sdR−b2−00035680.f
12.2
10.4
10.4
8.5
8.5
6.7
6.7
5.0
5.0
Y [pix]
X [pix]
0
500
1000
1500
2000

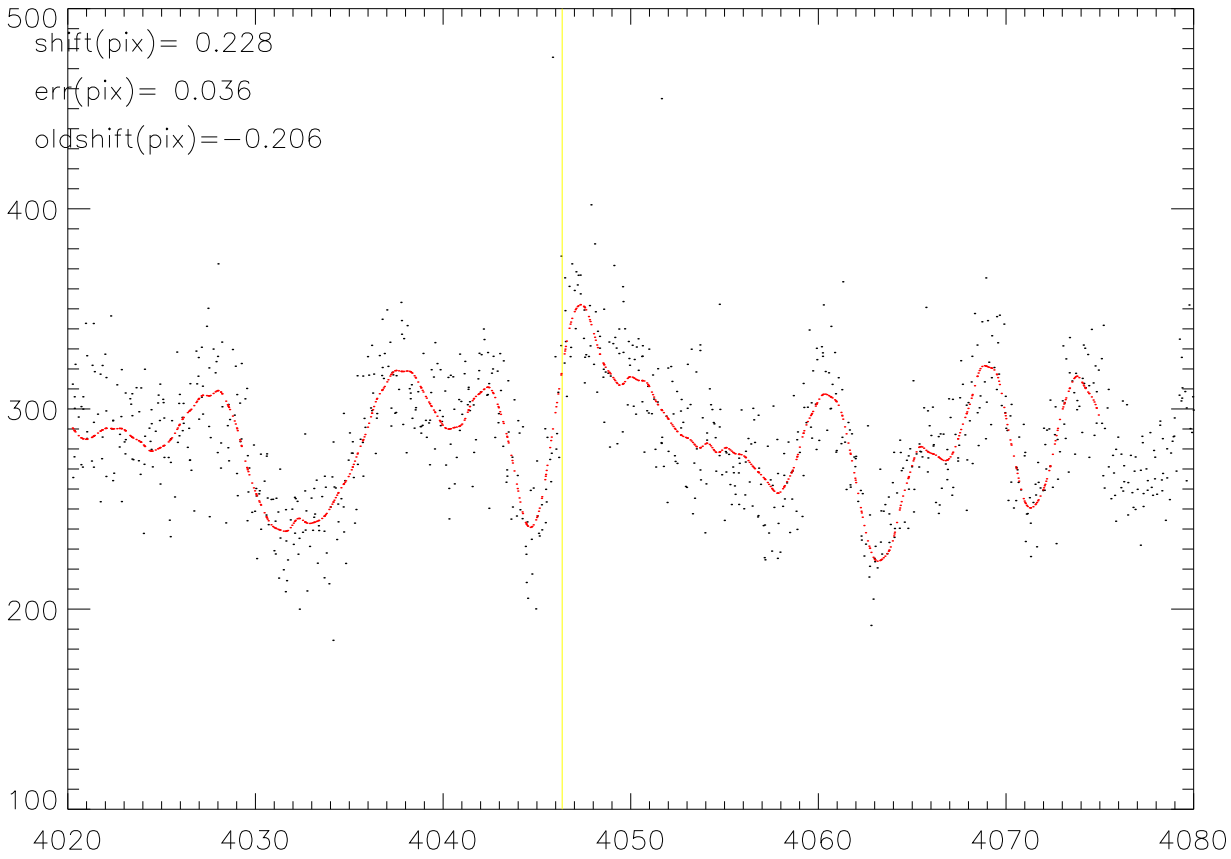

PLATE=2274 MJD=53726 Scattered Light before halo removal on sdR-b2-00035680.f
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 8.534
Max value = 12.139
Sat Feb 16 19:02:12 2008

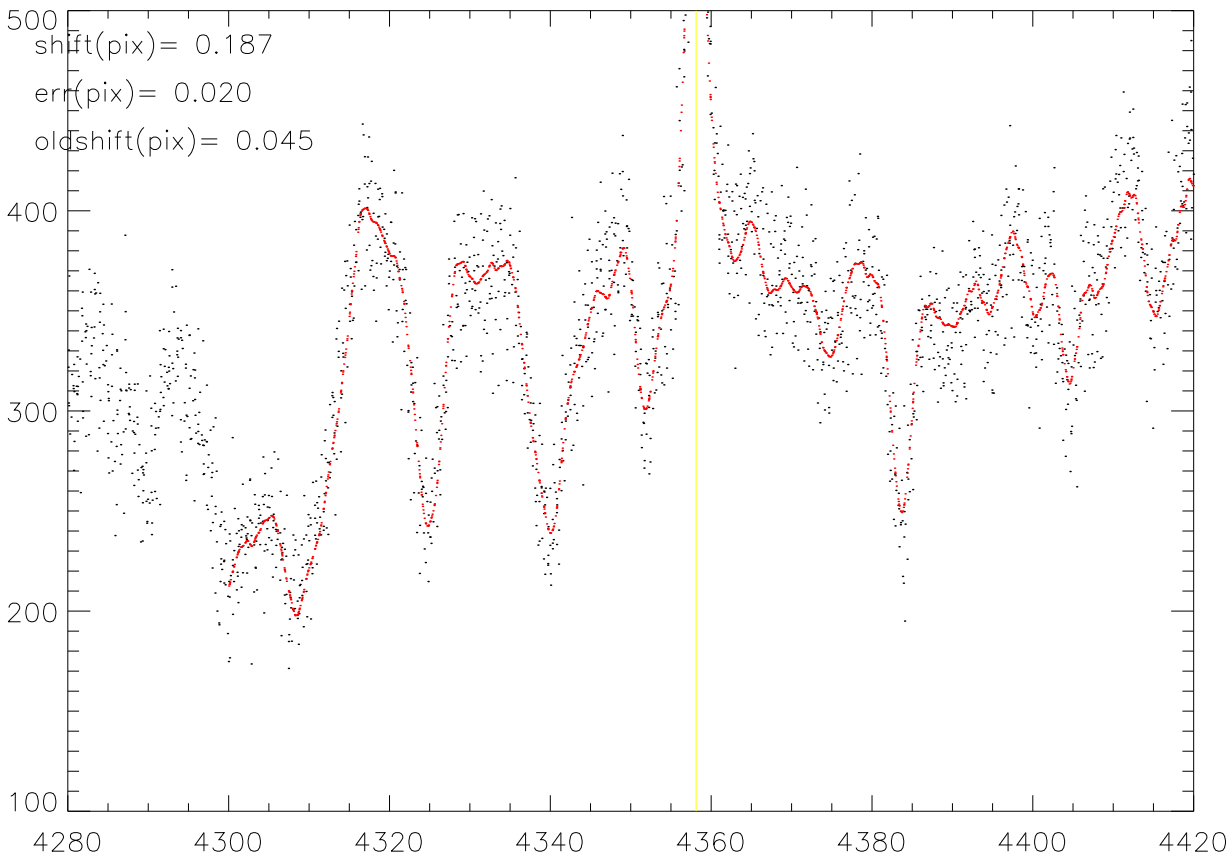

PLATE=2274 MJD=53726 Scattered Light on sdR-b2-00035680.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
4.5
6.4
2.7

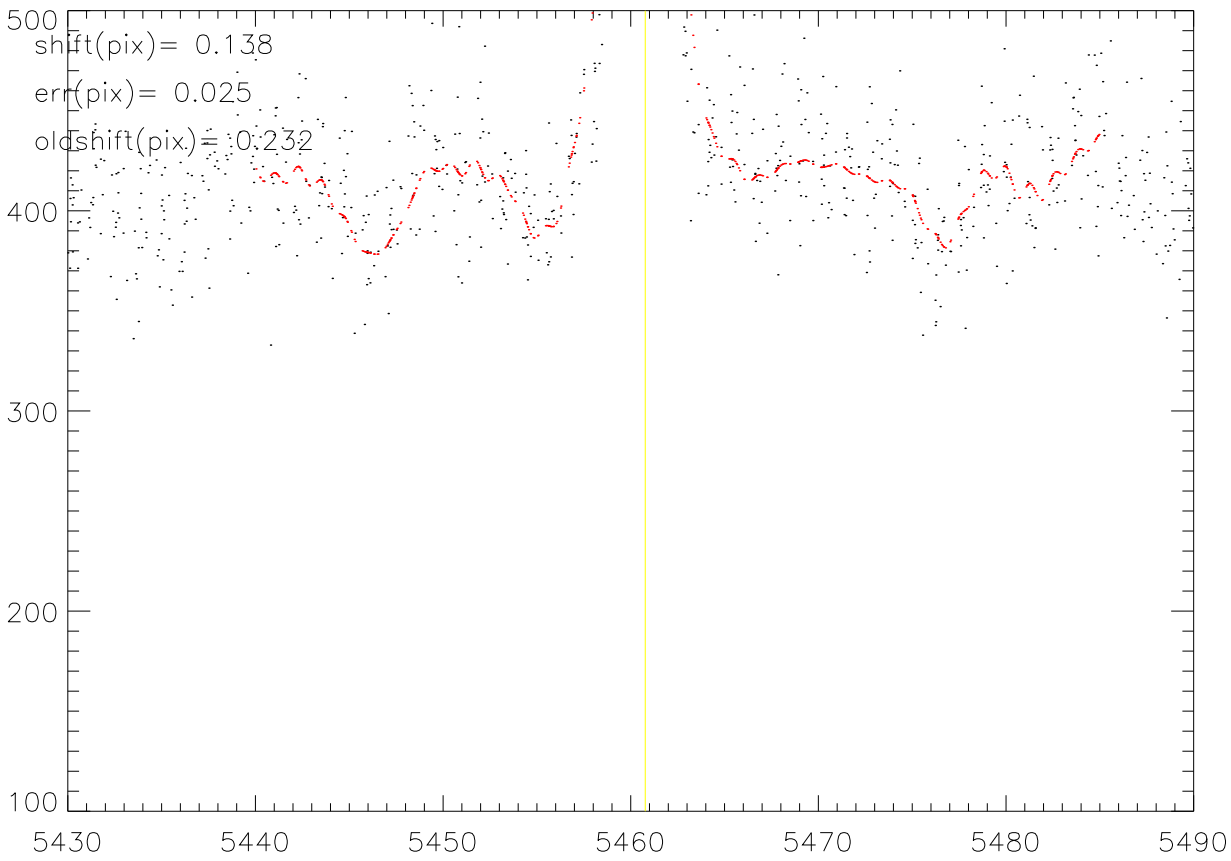

PLATE=2274 MJD=53726 Scattered Light on sdR-b2-00035680.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 2.997
Max value = 7.465
Sat Feb 16 19:04:19 2008

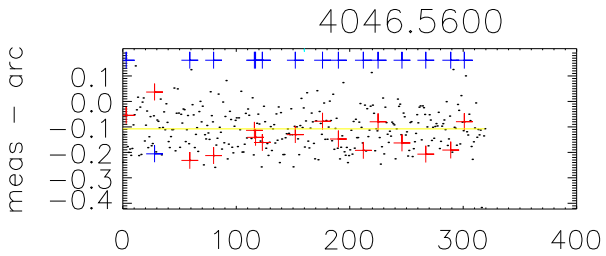

PLATE=2274 MJD=53726 Extraction chi^2 for sdR-b2-00035680.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

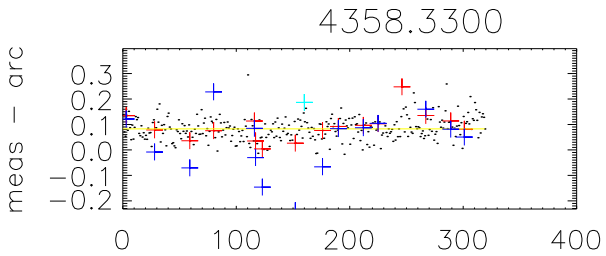

4046.5600
off: −0.21
sig: 0.167
4358.3300
off: 0.05
sig: 0.030
5460.9400
off: 0.23
sig: 0.020
5577.3390
off: 0.19
sig: 0.003
5889.9500
off: 0.24
sig: 0.008
5895.9240
off: 0.22
sig: 0.010

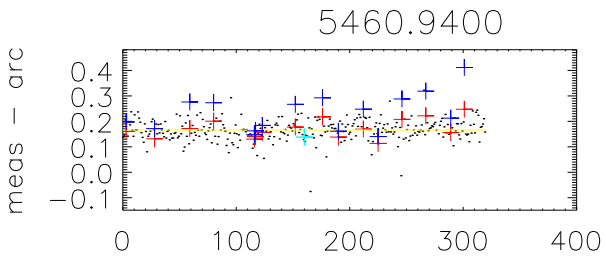

shift(pix)= 0.228
err(pix)= 0.036
oldshift(pix)=−0.206
500
400
300
200
100
4020
4030
4040
4050
4060
4070
4080

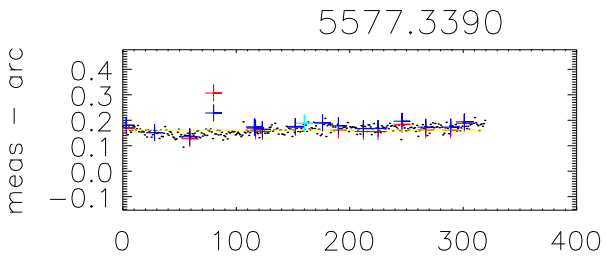

shift(pix)= 0.187
err(pix)= 0.020
oldshift(pix)= 0.045
500
400
300
200
100
4280
4300
4320
4340
4360
4380
4400
4420

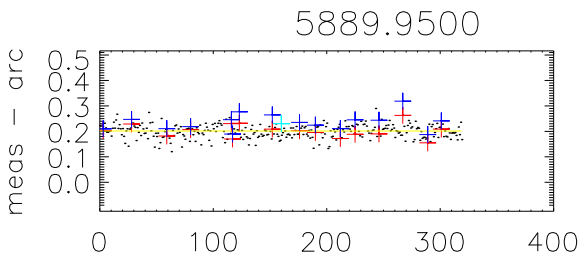

shift(pix)= 0.138
err(pix)= 0.025
oldshift(pix)= 0.232
500
400
300
200
100
5430
5440
5450
5460
5470
5480
5490

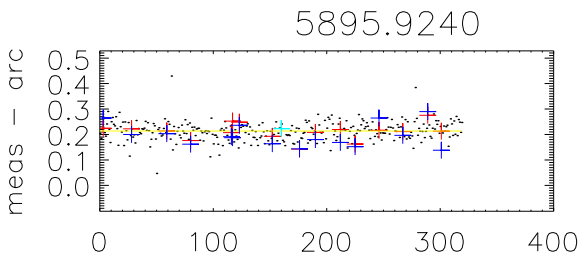

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

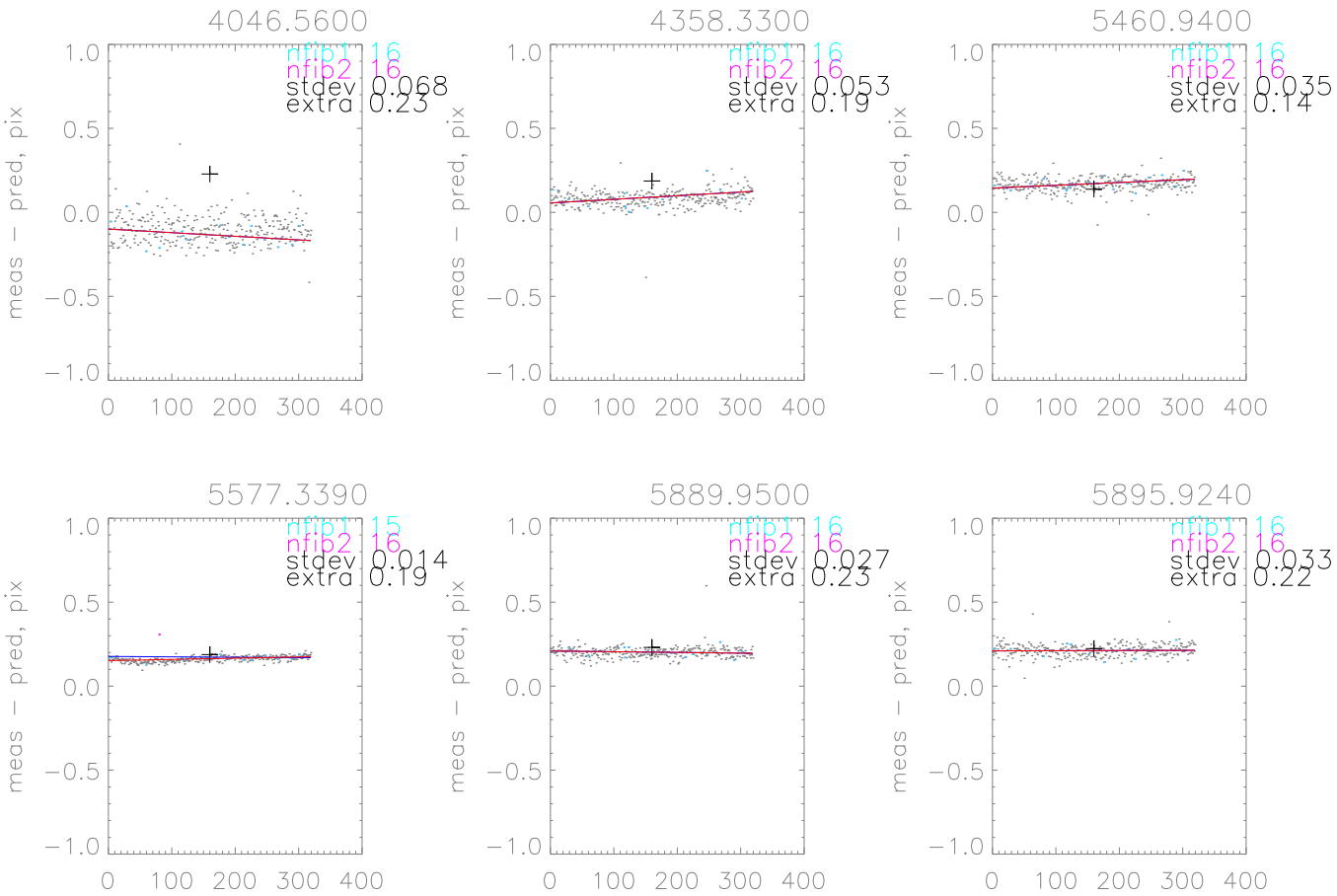

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

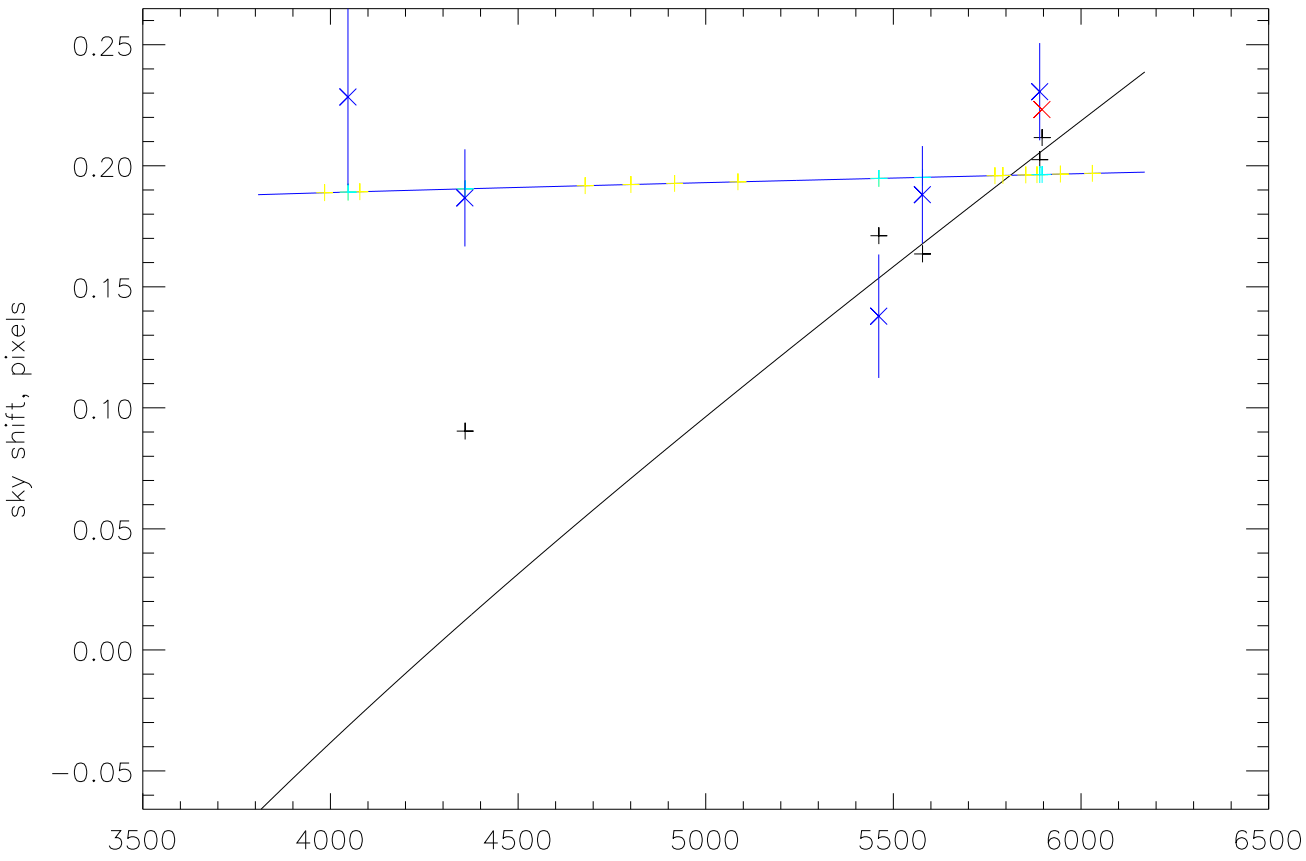

5460.9400
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

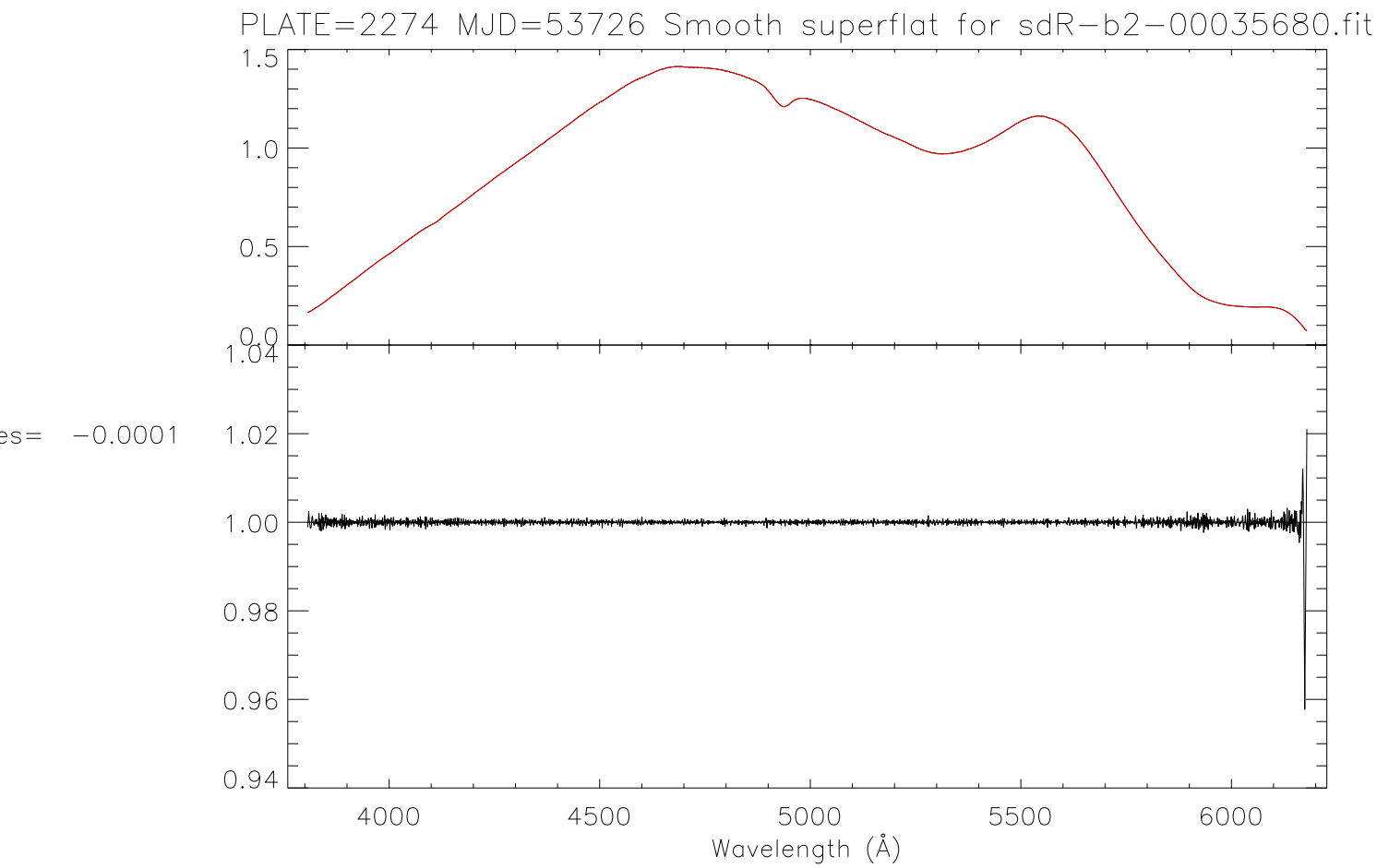

5577.3390
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


5889.9500
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

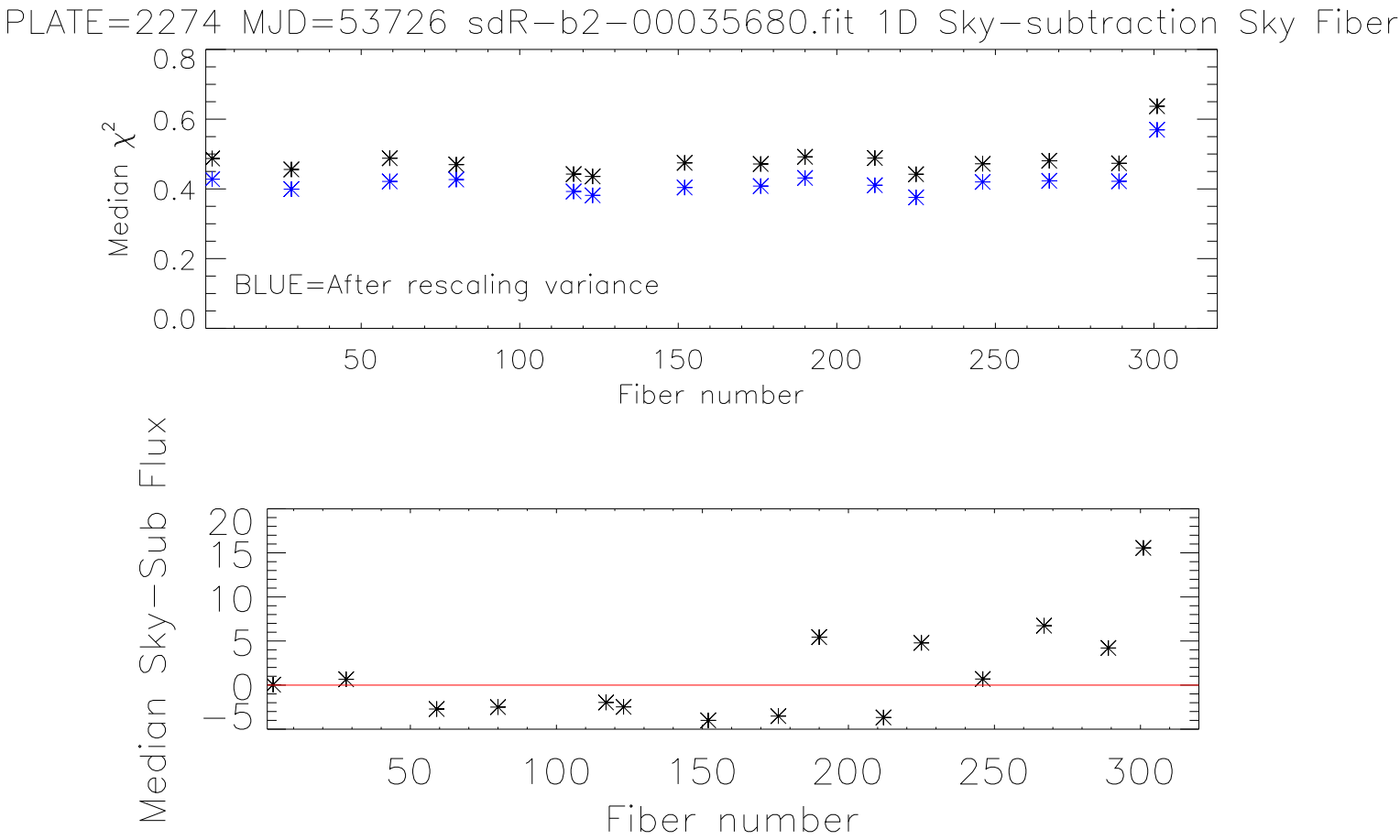

5895.9240
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

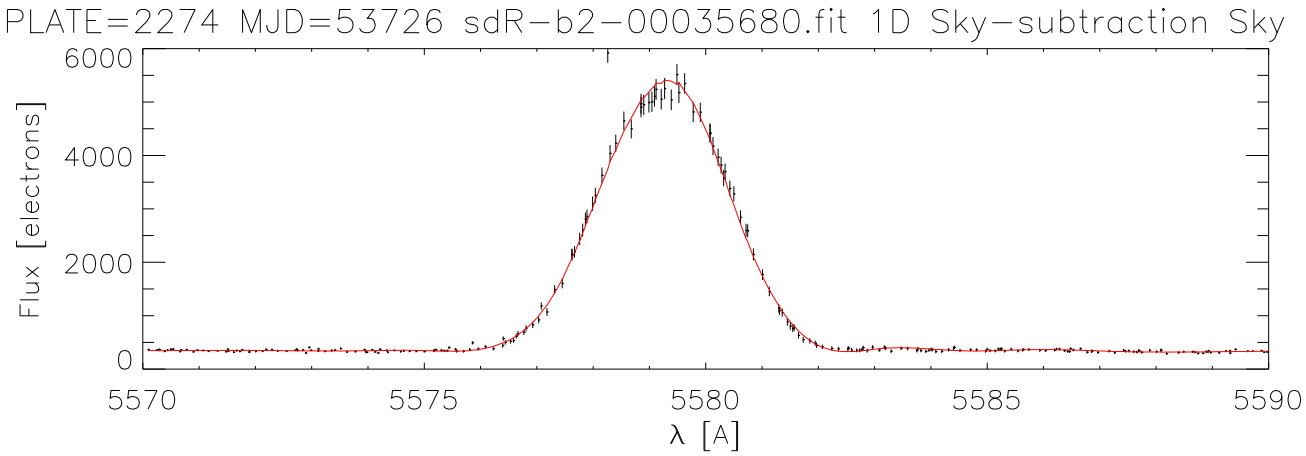

4046.5600
nfib1 16
nfib2 16
stdev 0.068
extra 0.23
4358.3300
nfib1 16
nfib2 16
stdev 0.053
extra 0.19
5460.9400
nfib1 16
nfib2 16
stdev 0.035
extra 0.14
5577.3390
nfib1 15
nfib2 16
stdev 0.014
extra 0.19
5889.9500
nfib1 16
nfib2 16
stdev 0.027
extra 0.23
5895.9240
nfib1 16
nfib2 16
stdev 0.033
extra 0.22
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

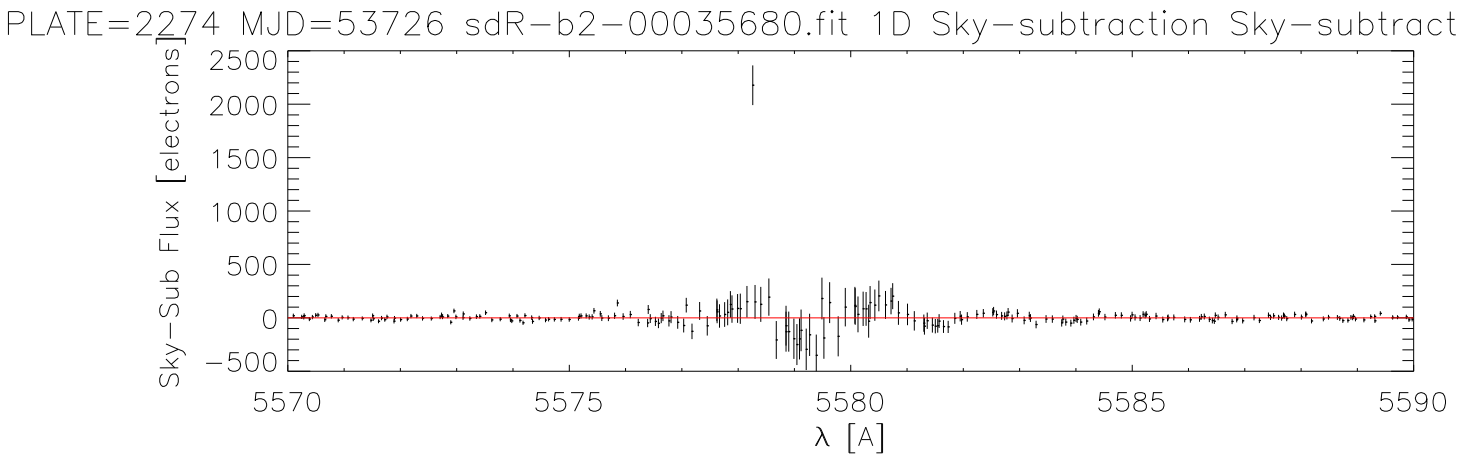

sky shift, pixels
0.25
0.20
0.15
0.10
0.05
0.00
−0.05
3500
4000
4500
5000
5500
6000
6500

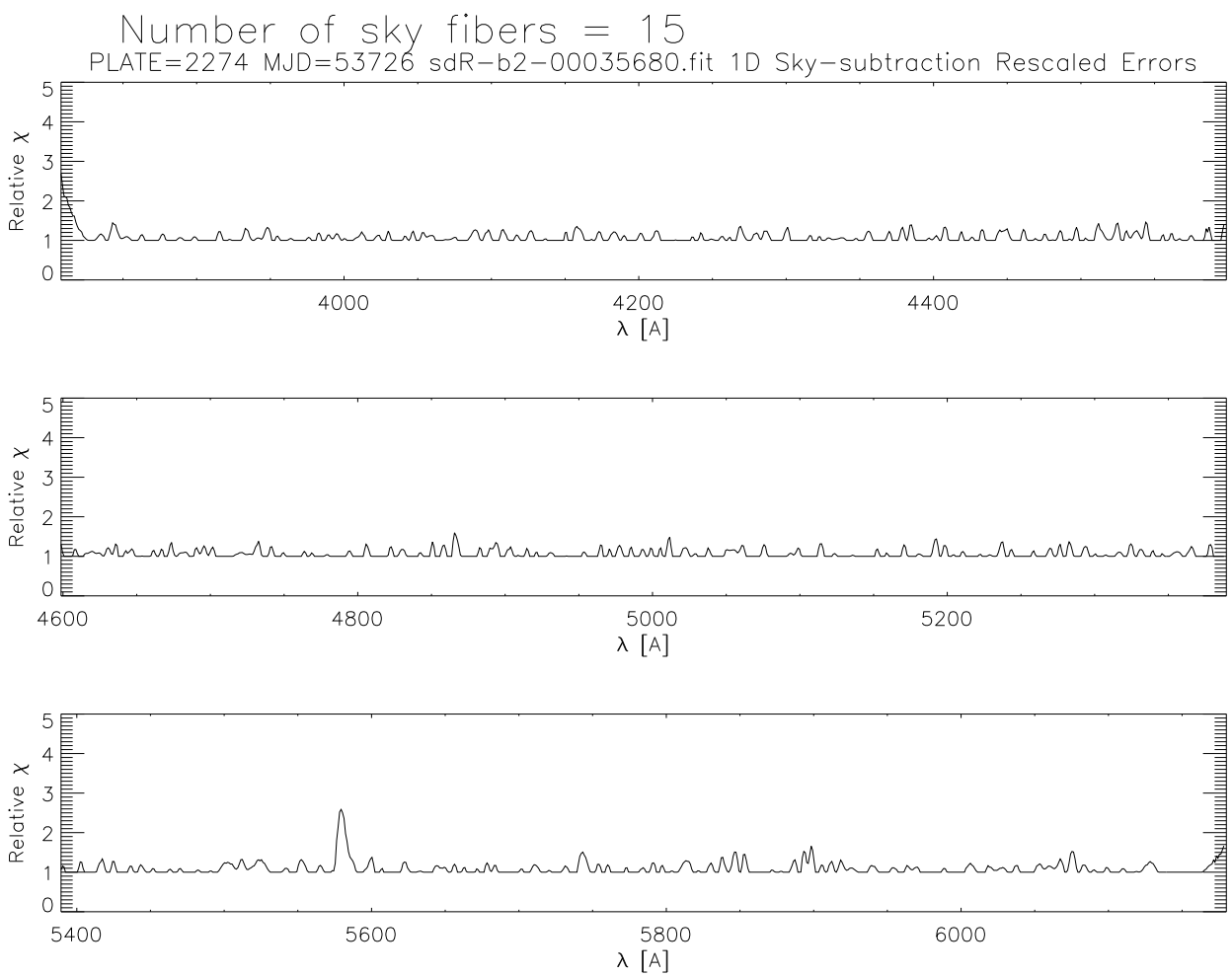

PLATE=2274 MJD=53726 Smooth superflat for sdR-b2-00035680.fit
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
0.94
4000
4500
5000
5500
6000
Wavelength (Å)

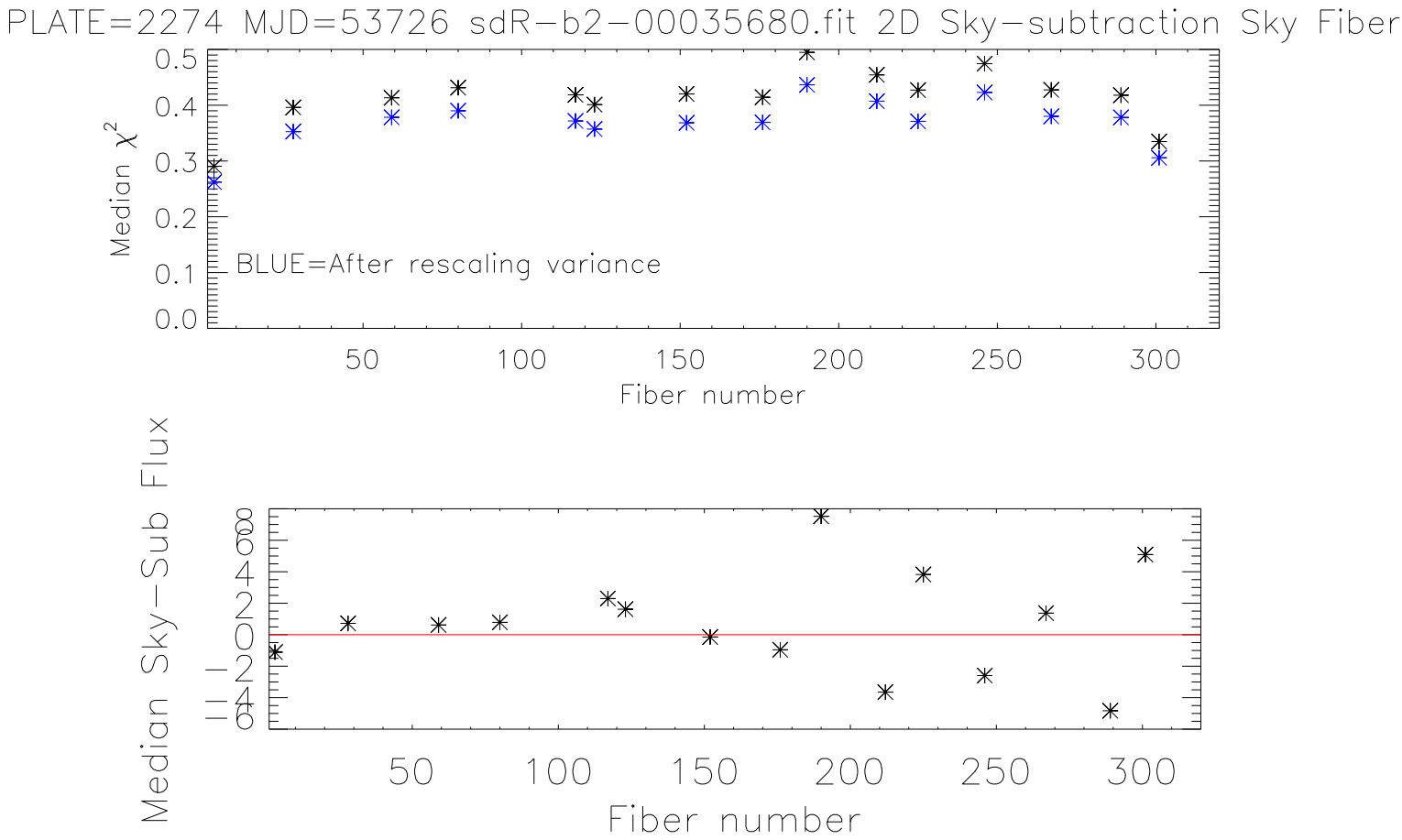
es= −0.0001

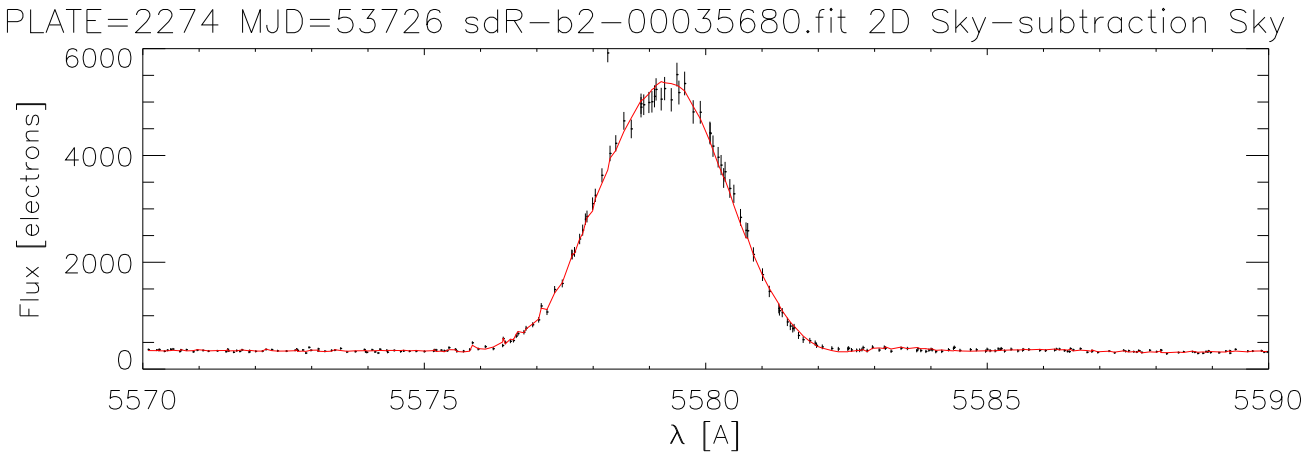

PLATE=2274 MJD=53726 sdR-b2-00035680.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-5
0
5
10
15
20
50
100
150
200
250
300
Fiber number

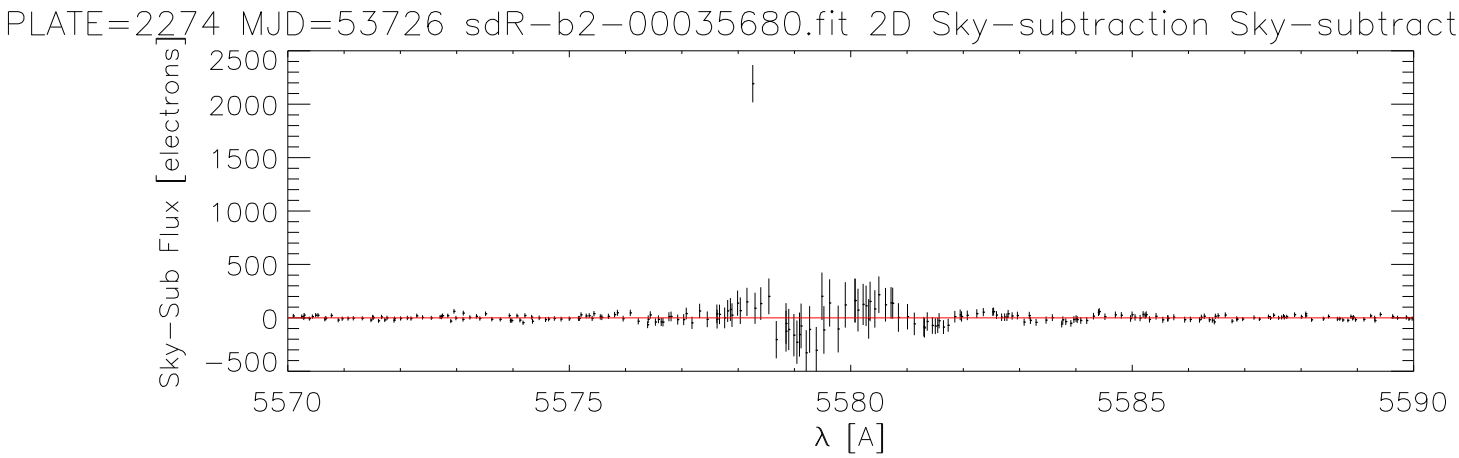

PLATE=2274 MJD=53726 sdR-b2-00035680.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

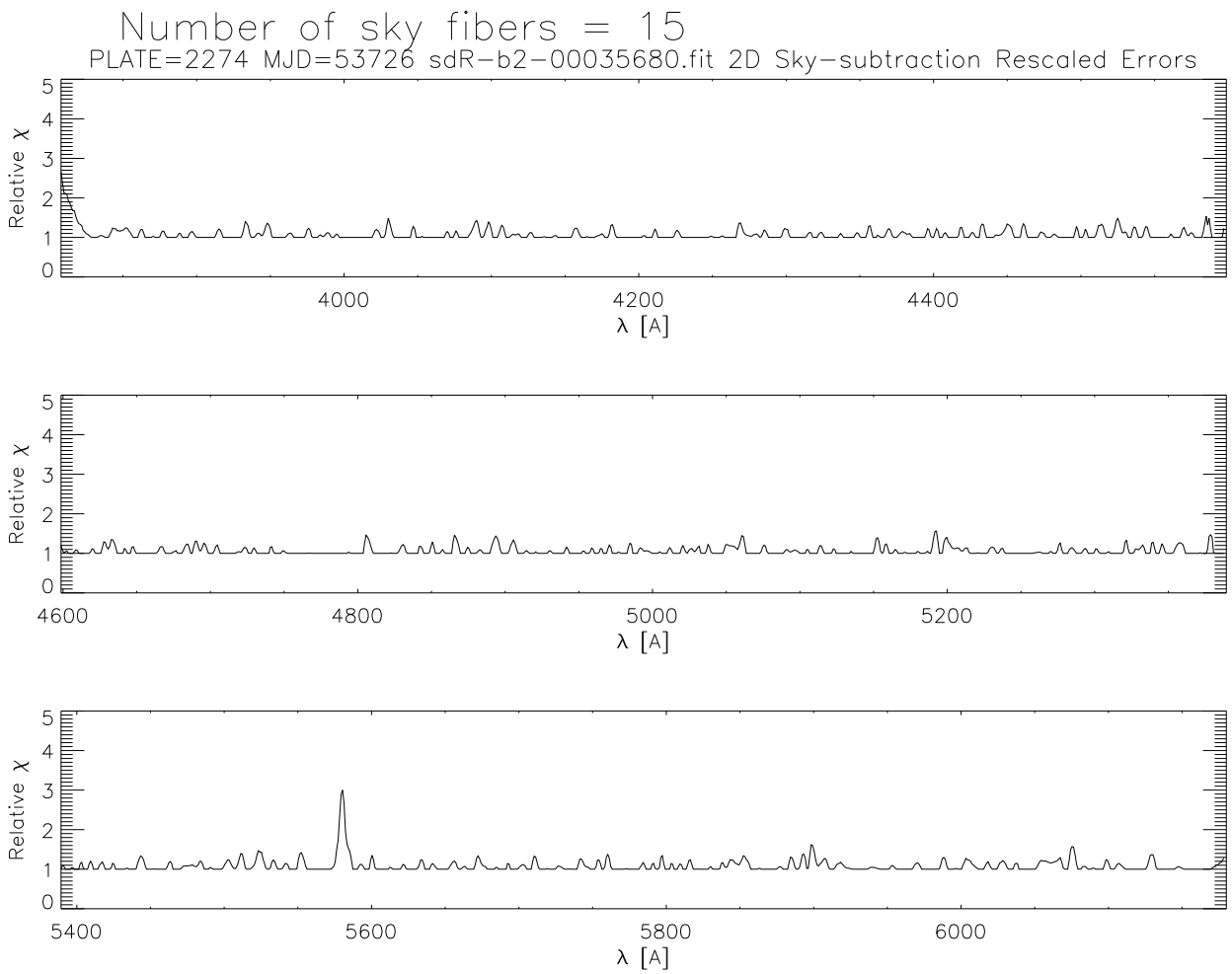

PLATE=2274 MJD=53726 sdR-b2-00035680.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2500
2000
1500
1000
500
0
-500
5570
5575
5580
5585
5590
λ [A]

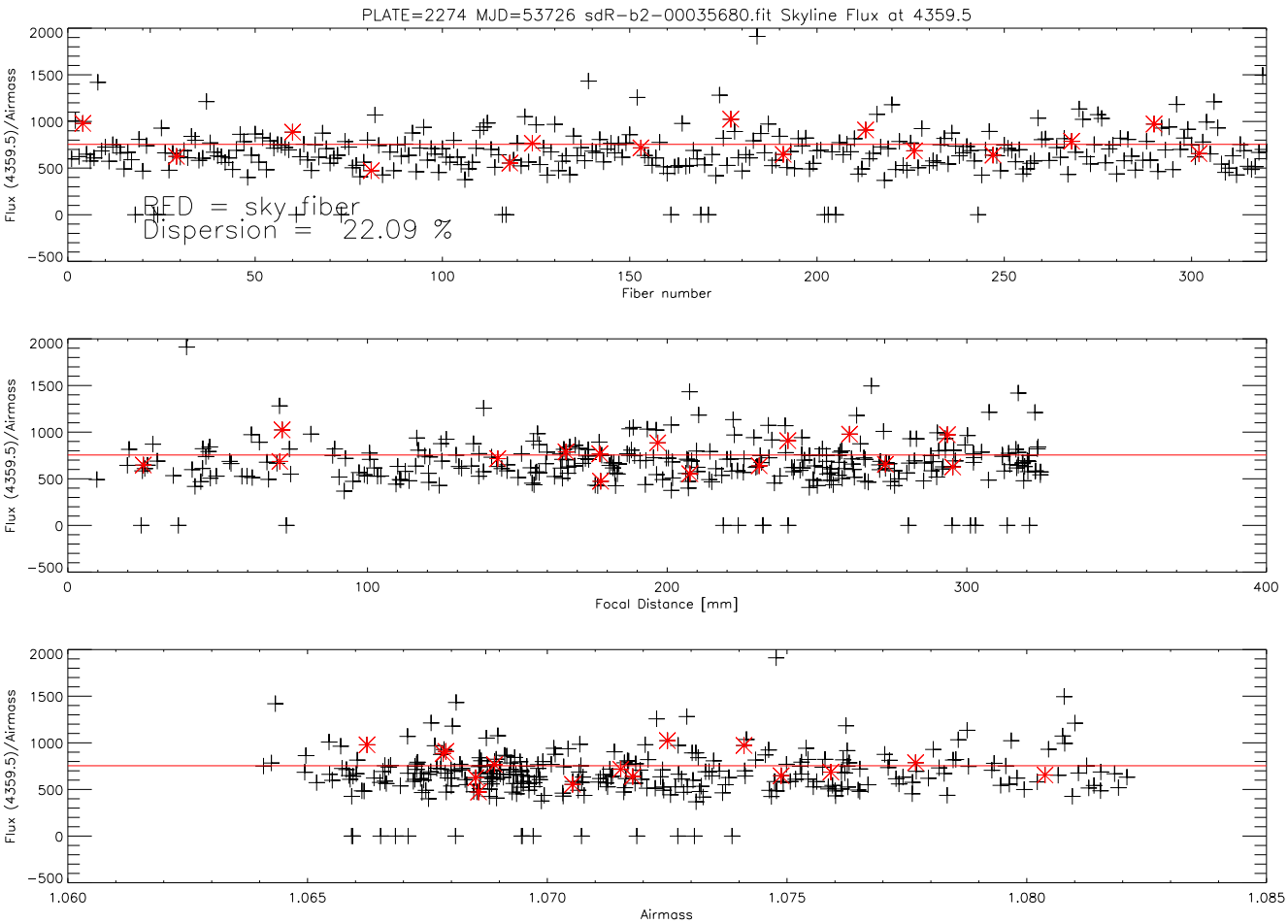

Number of sky fibers = 15
PLATE=2274 MJD=53726 sdR-b2-00035680.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

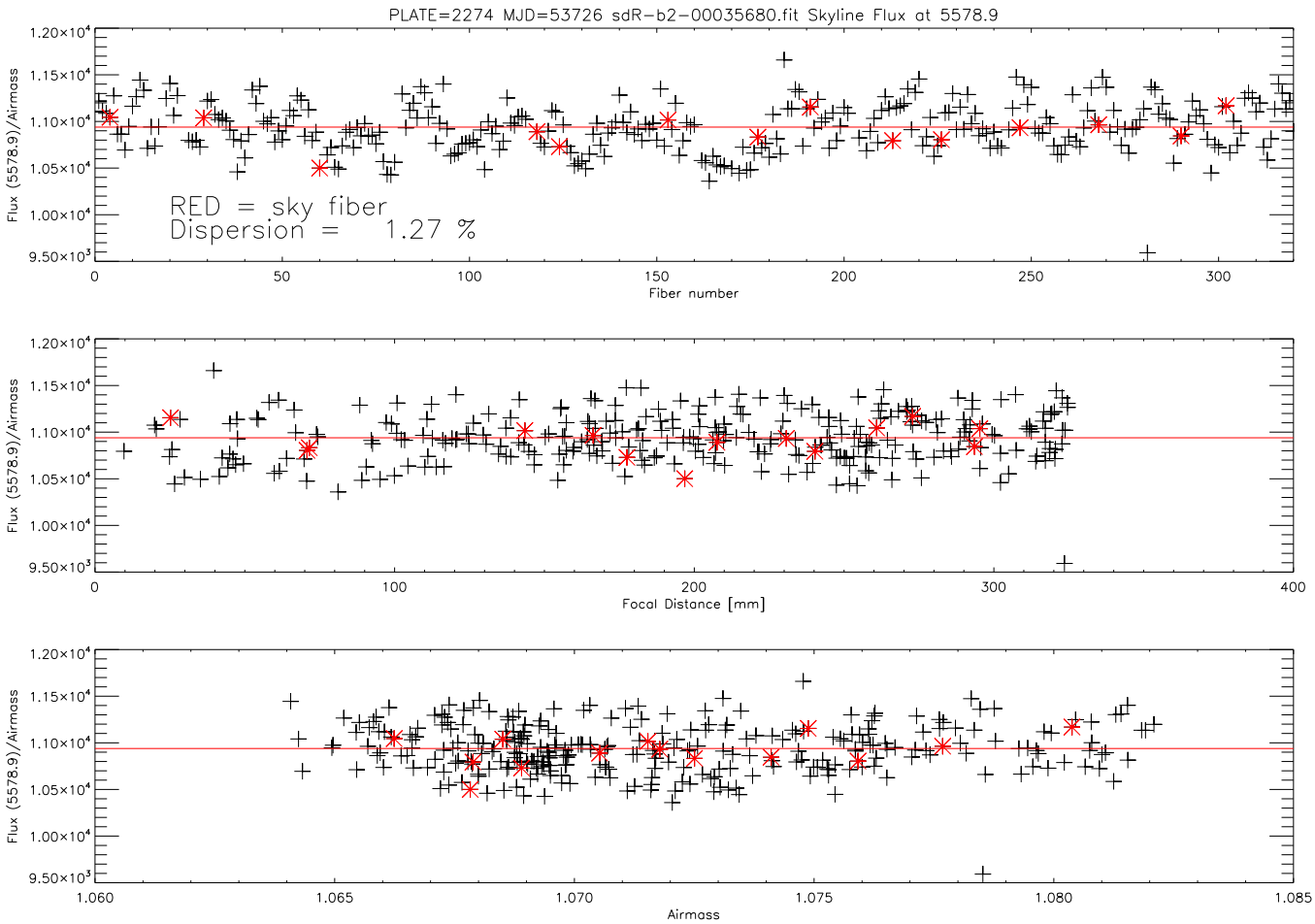

PLATE=2274 MJD=53726 sdR-b2-00035680.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-11
-6
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

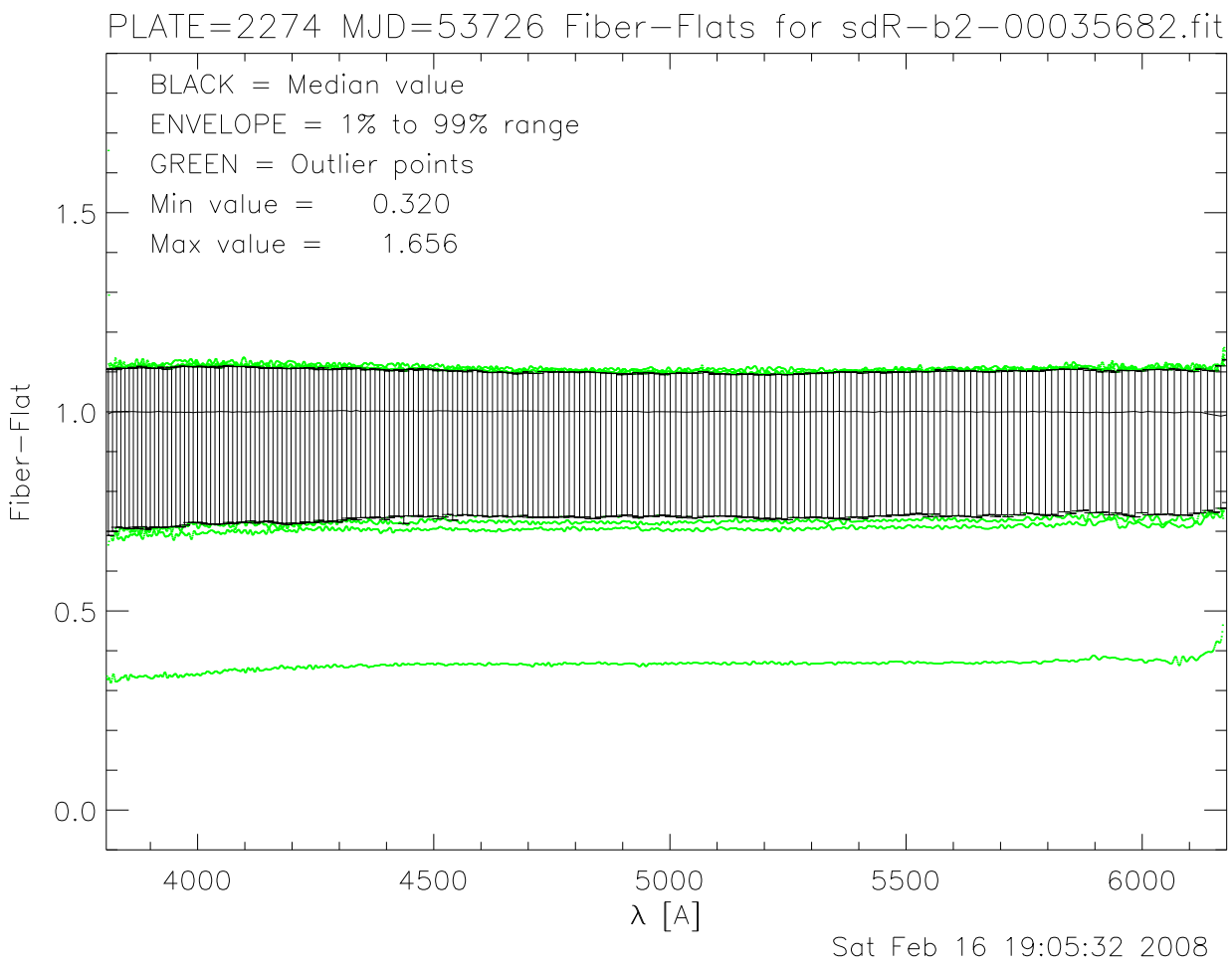

PLATE=2274 MJD=53726 sdR-b2-00035680.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

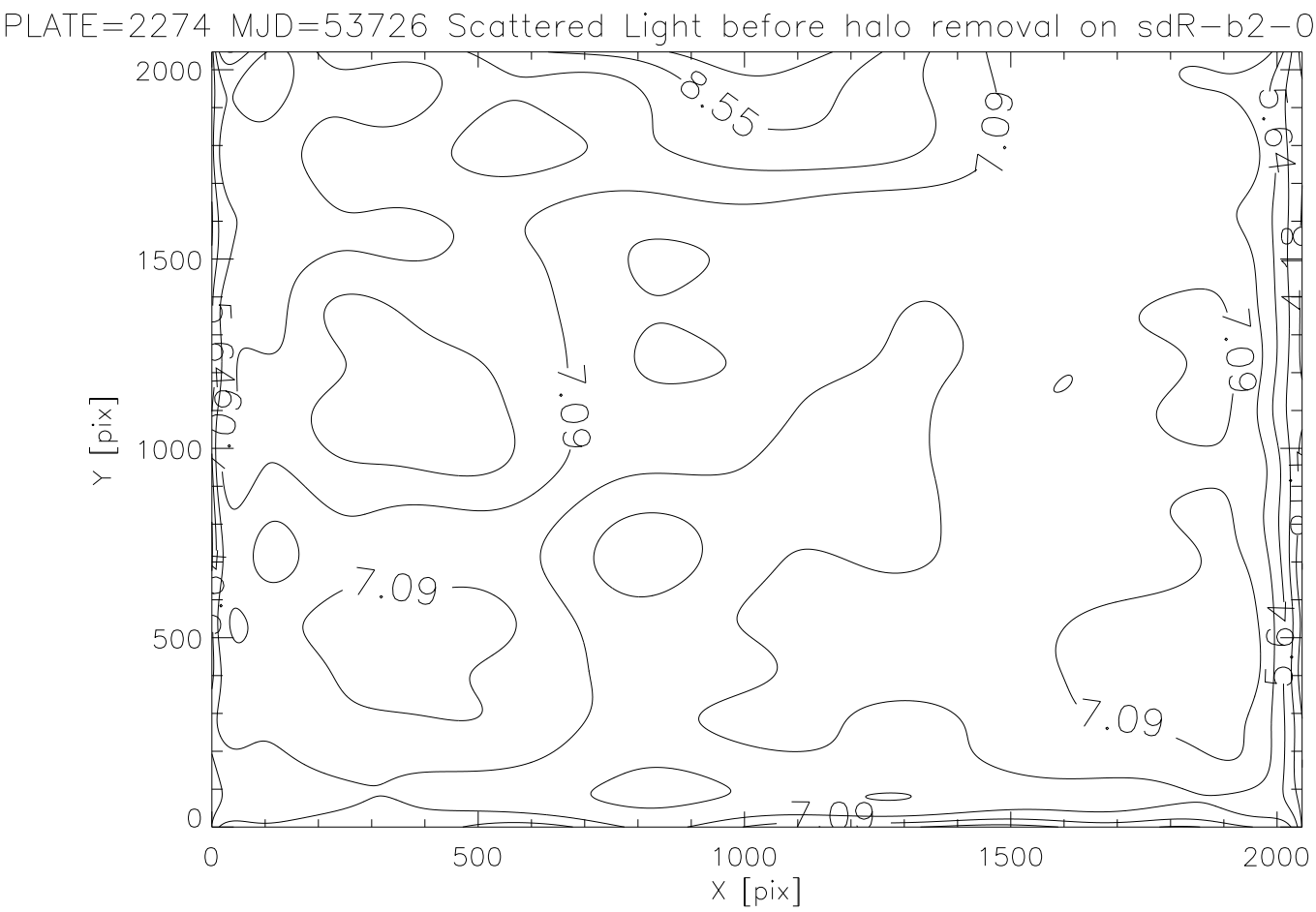

PLATE=2274 MJD=53726 sdR-b2-00035680.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2500
2000
1500
1000
500
0
-500
5570
5575
5580
5585
5590
λ [A]

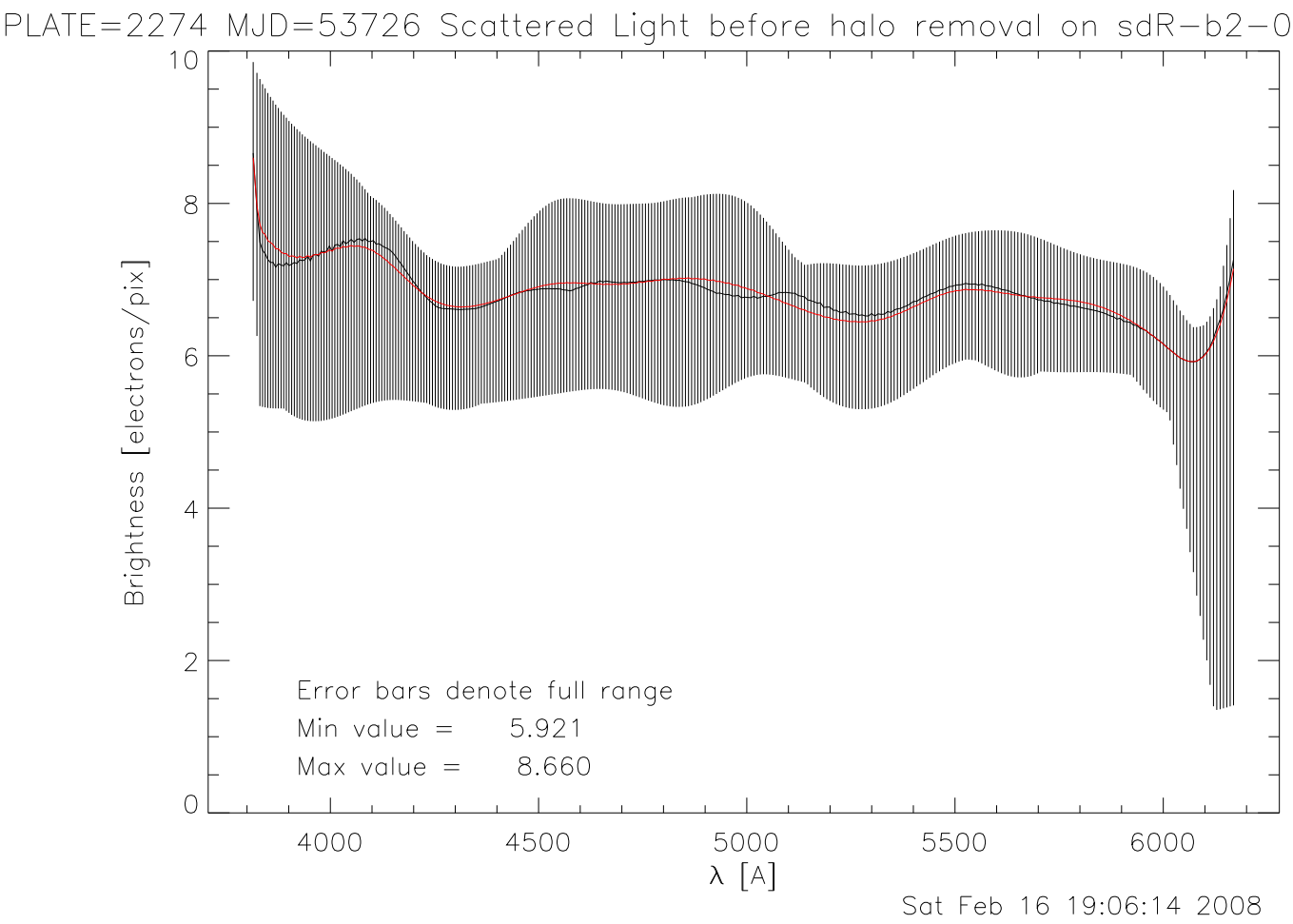

Number of sky fibers = 15
PLATE=2274 MJD=53726 sdR-b2-00035680.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

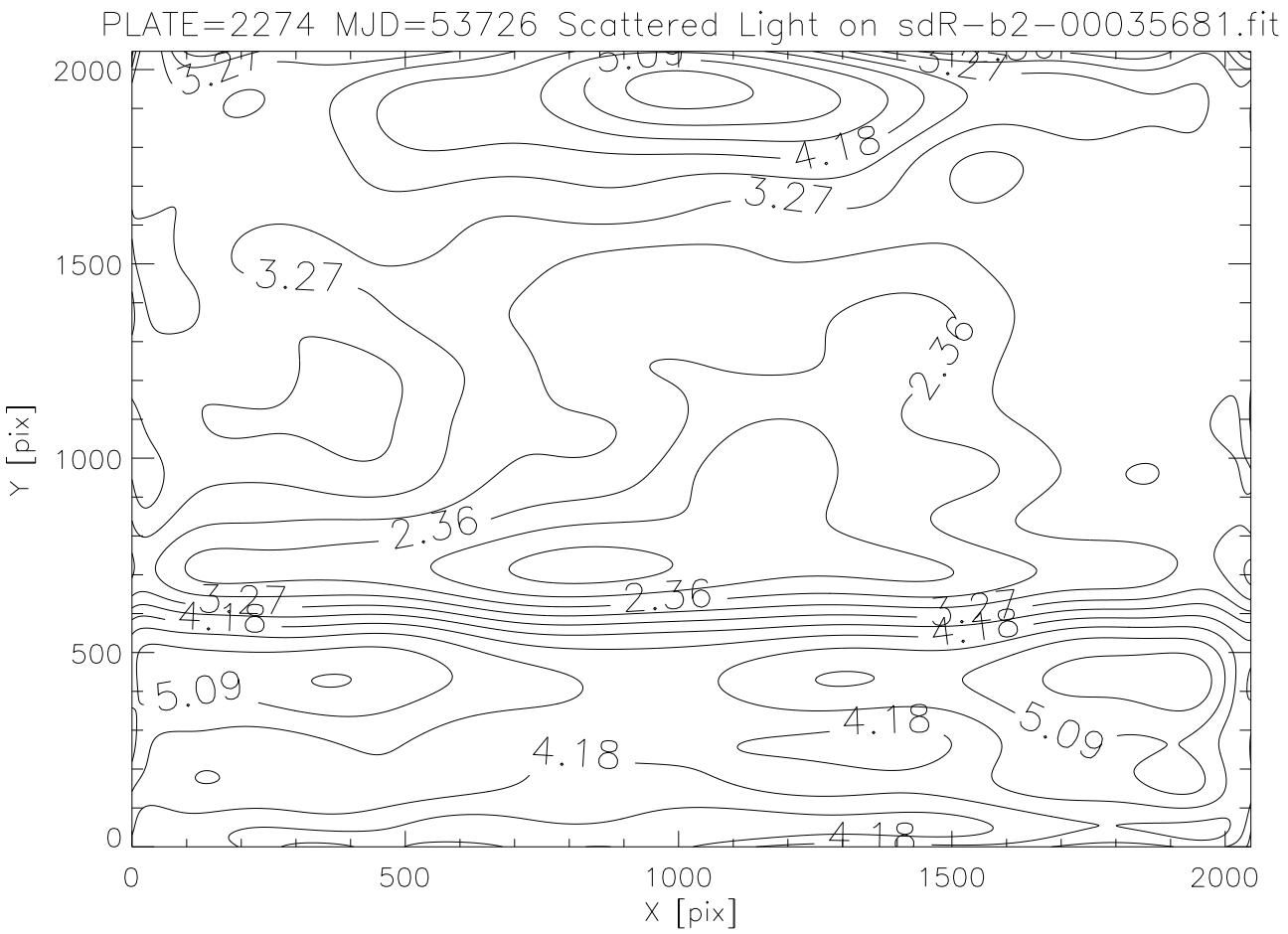

PLATE=2274 MJD=53726 sdR-b2-00035680.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 22.09 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

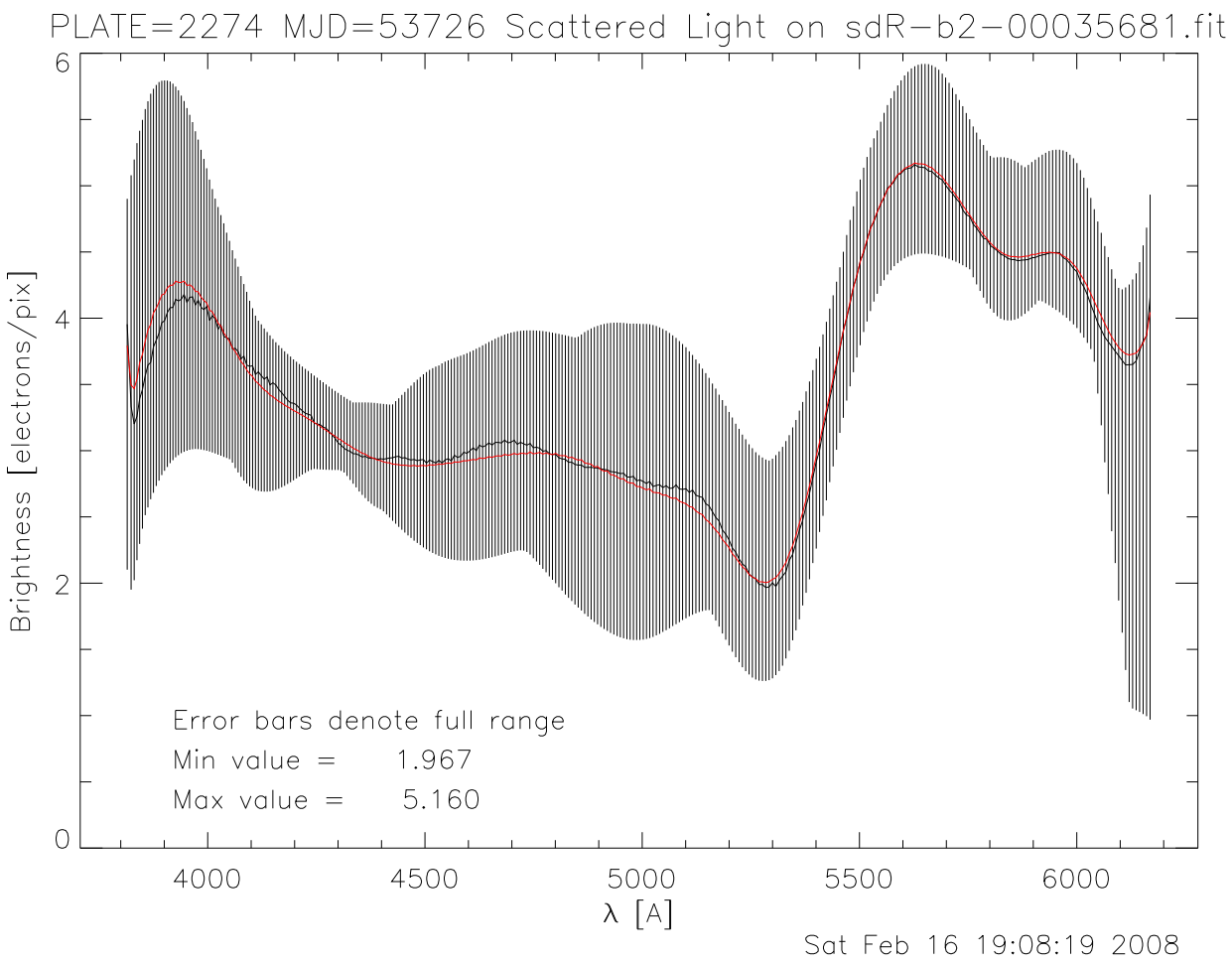

PLATE=2274 MJD=53726 sdR-b2-00035680.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.27 %
Fiber number
Focal Distance [mm]
Airmass

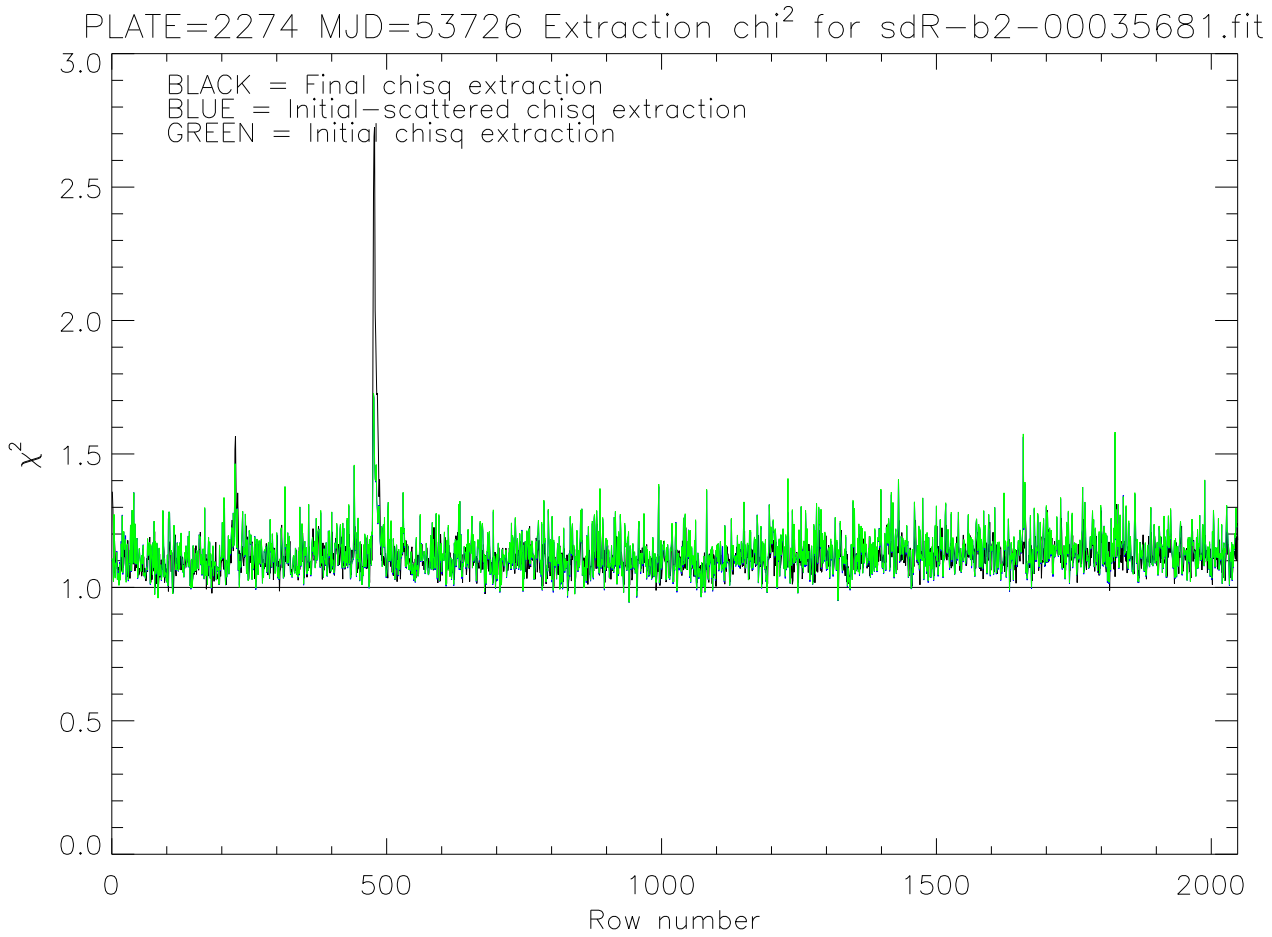

PLATE=2274 MJD=53726 Fiber-Flats for sdR-b2-00035682.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.320
Max value = 1.656
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 19:05:32 2008

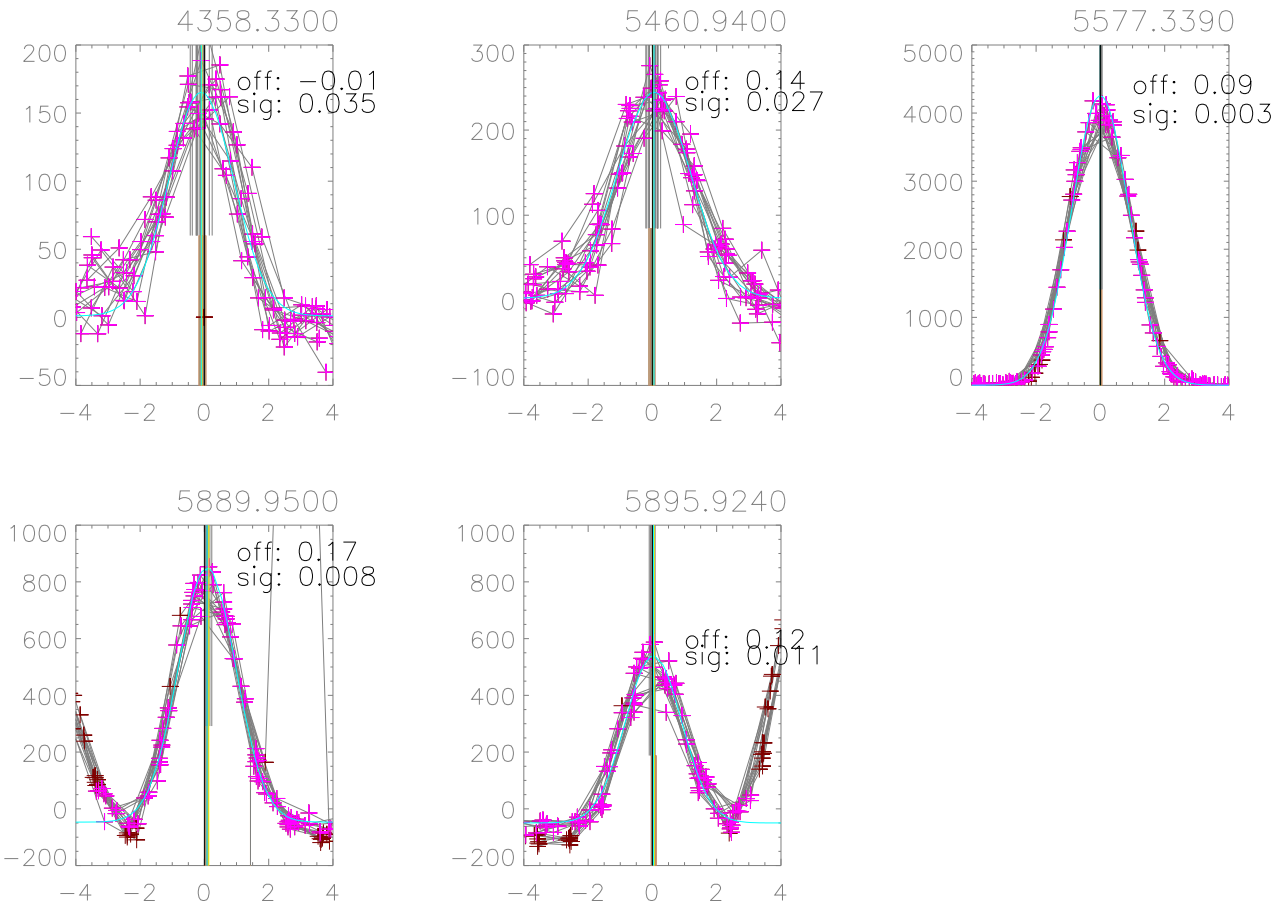

PLATE=2274 MJD=53726 Scattered Light before halo removal on sdR-b2-00035681.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
8.55
7.09
5.64
7.09
7.09
7.09
7.09
5.64
5.64

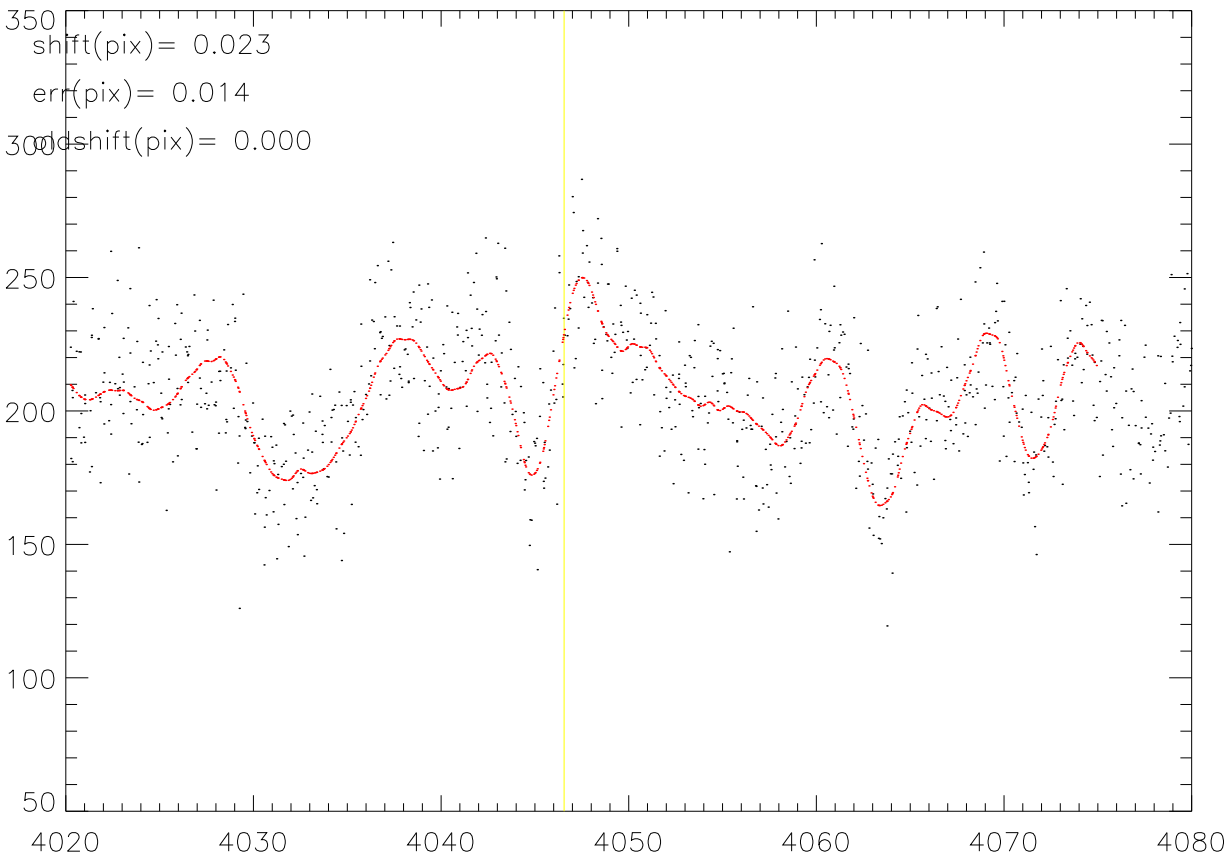

PLATE=2274 MJD=53726 Scattered Light before halo removal on sdR-b2-00035681.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.921
Max value = 8.660
Sat Feb 16 19:06:14 2008

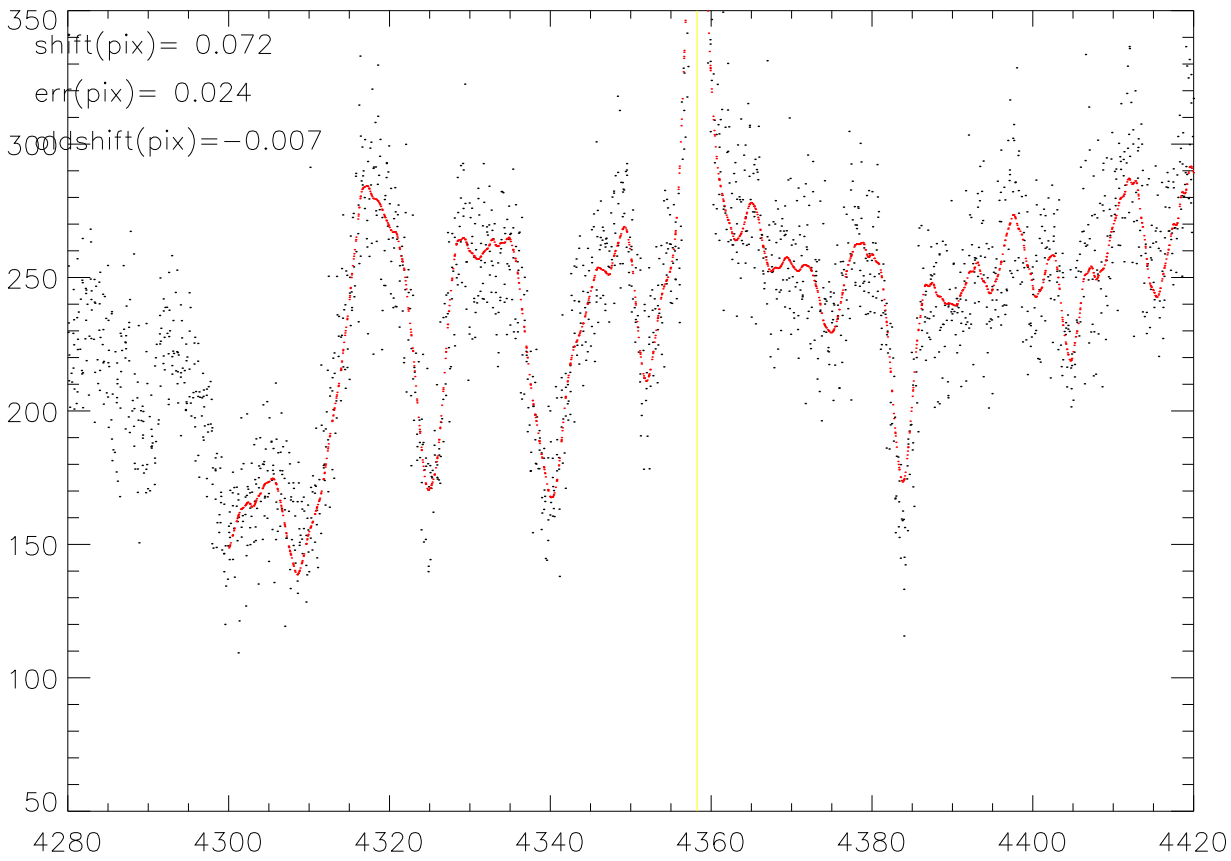

PLATE=2274 MJD=53726 Scattered Light on sdR-b2-00035681.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
3.27
4.18
2.36
5.09

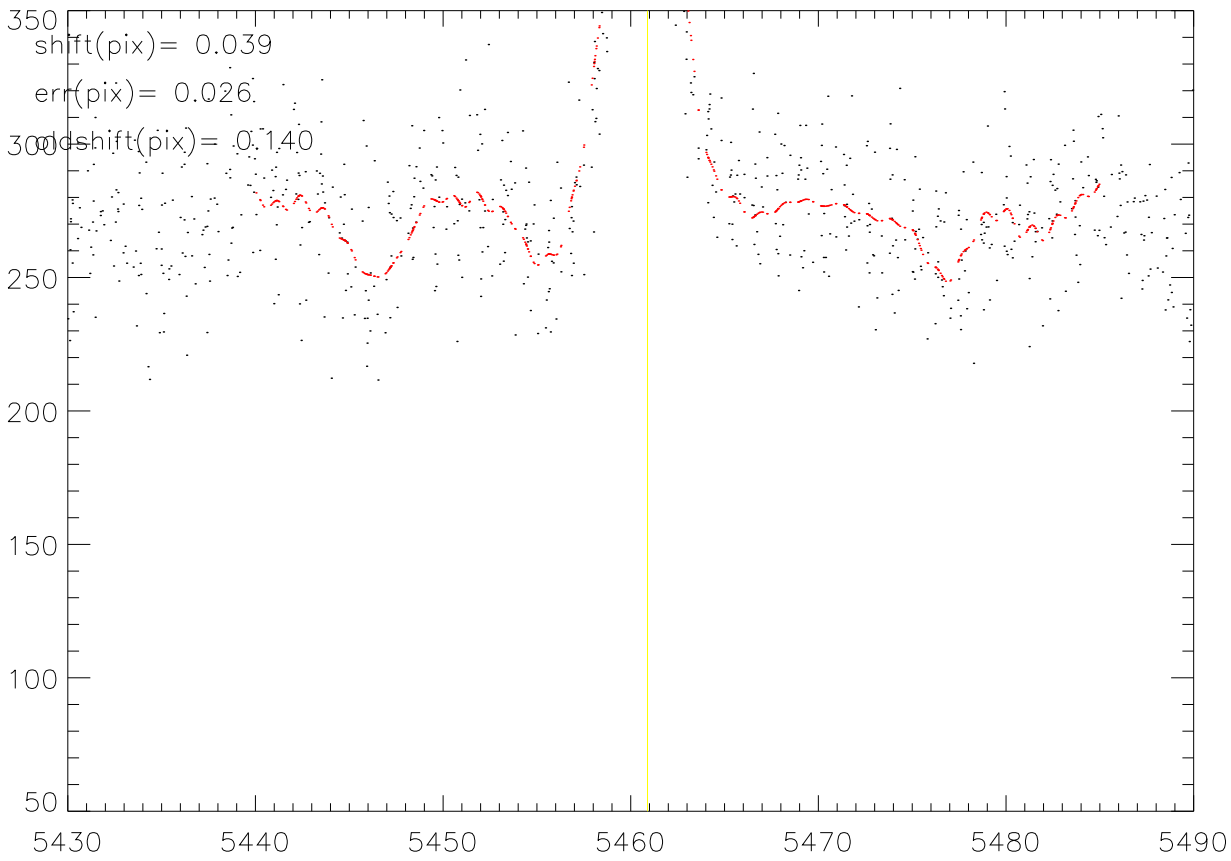

PLATE=2274 MJD=53726 Scattered Light on sdR-b2-00035681.fit
Brightness [electrons/pix]
0
2
4
6
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 1.967
Max value = 5.160
Sat Feb 16 19:08:19 2008

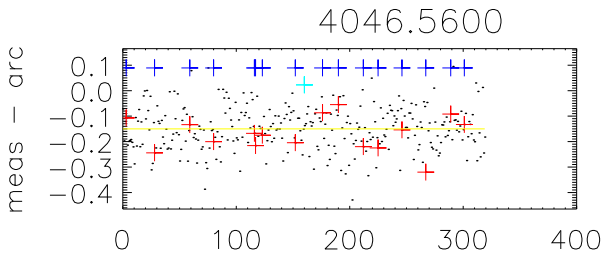

PLATE=2274 MJD=53726 Extraction chi^2 for sdR-b2-00035681.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

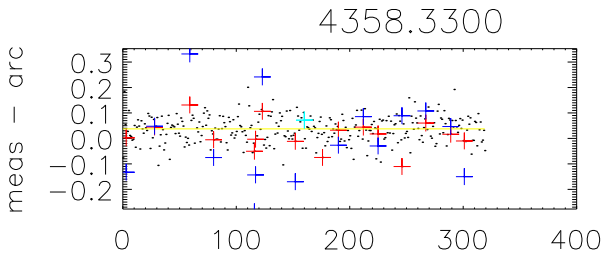

4358.3300
off: −0.01
sig: 0.035
5460.9400
off: 0.14
sig: 0.027
5577.3390
off: 0.09
sig: 0.003
5889.9500
off: 0.17
sig: 0.008
5895.9240
off: 0.12
sig: 0.011

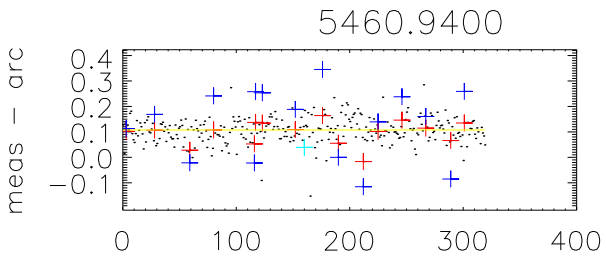

shift(pix)= 0.023
err(pix)= 0.014
oldshift(pix)= 0.000
350
300
250
200
150
100
50
4020
4030
4040
4050
4060
4070
4080

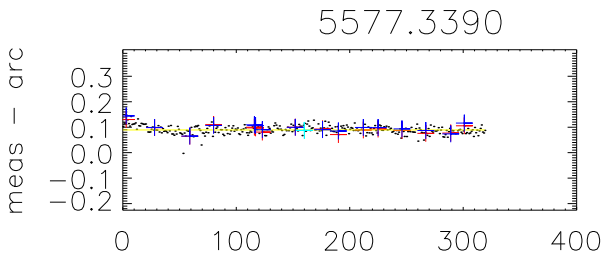

shift(pix)= 0.072
err(pix)= 0.024
oldshift(pix)=−0.007
350
300
250
200
150
100
50
4280
4300
4320
4340
4360
4380
4400
4420

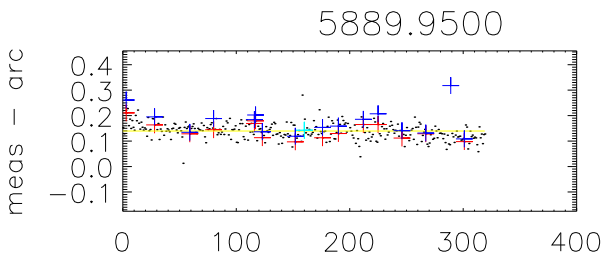

shift(pix)= 0.039
err(pix)= 0.026
oldshift(pix)= 0.140
350
300
250
200
150
100
50
5430
5440
5450
5460
5470
5480
5490

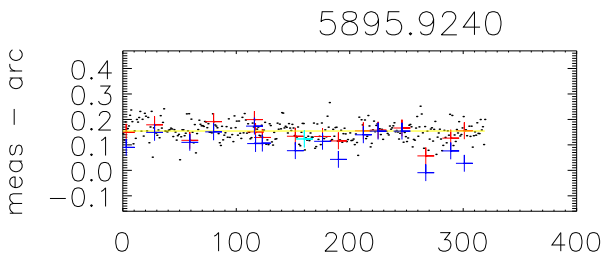

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

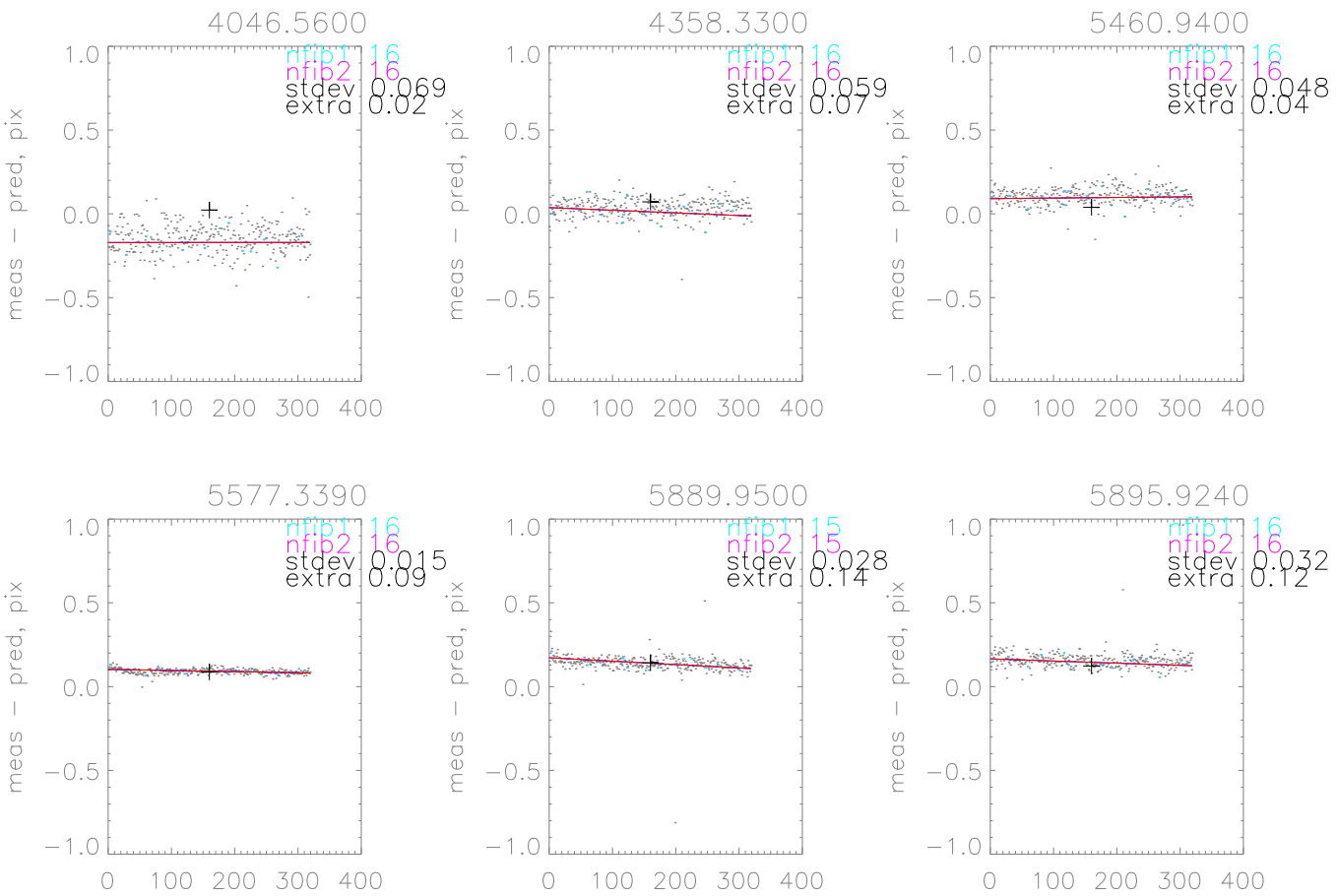

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

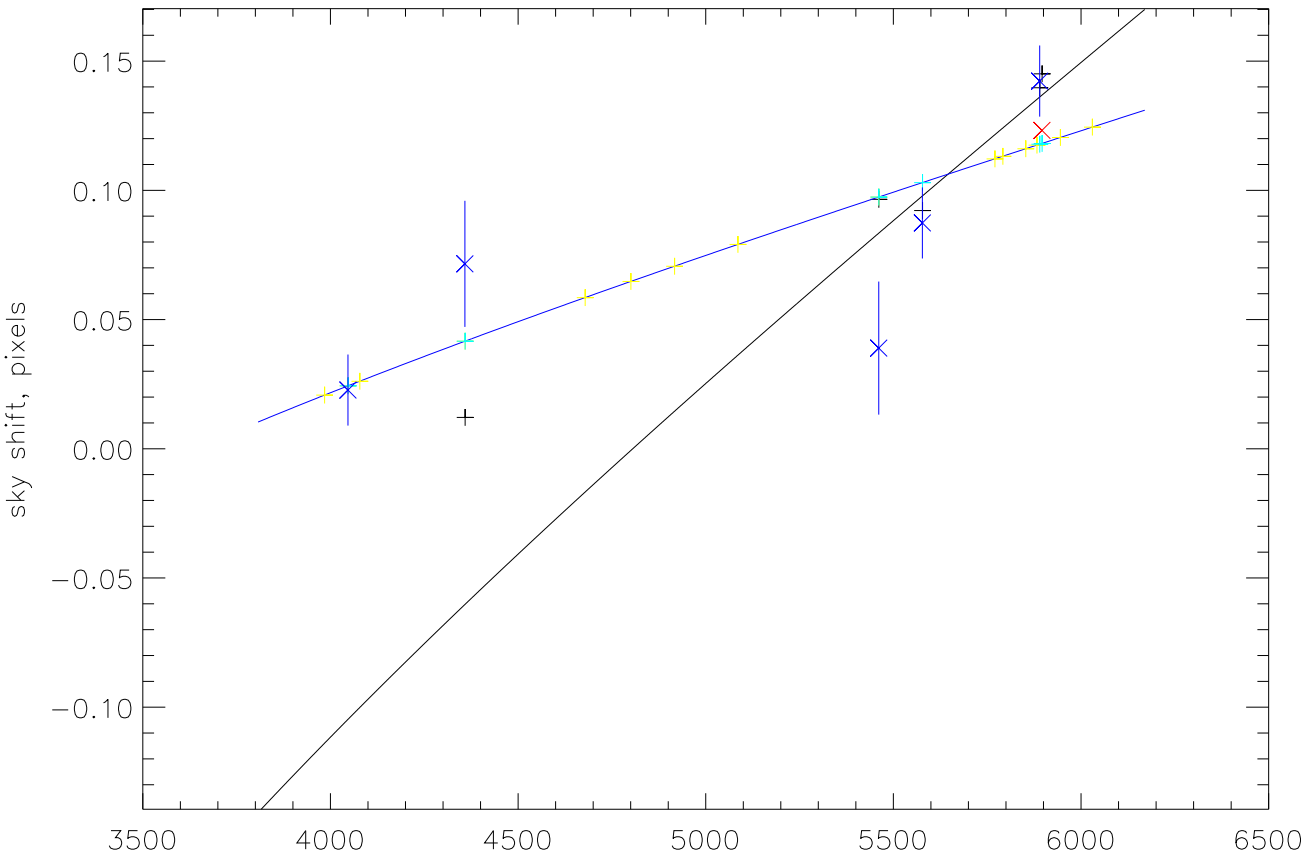

5460.9400
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

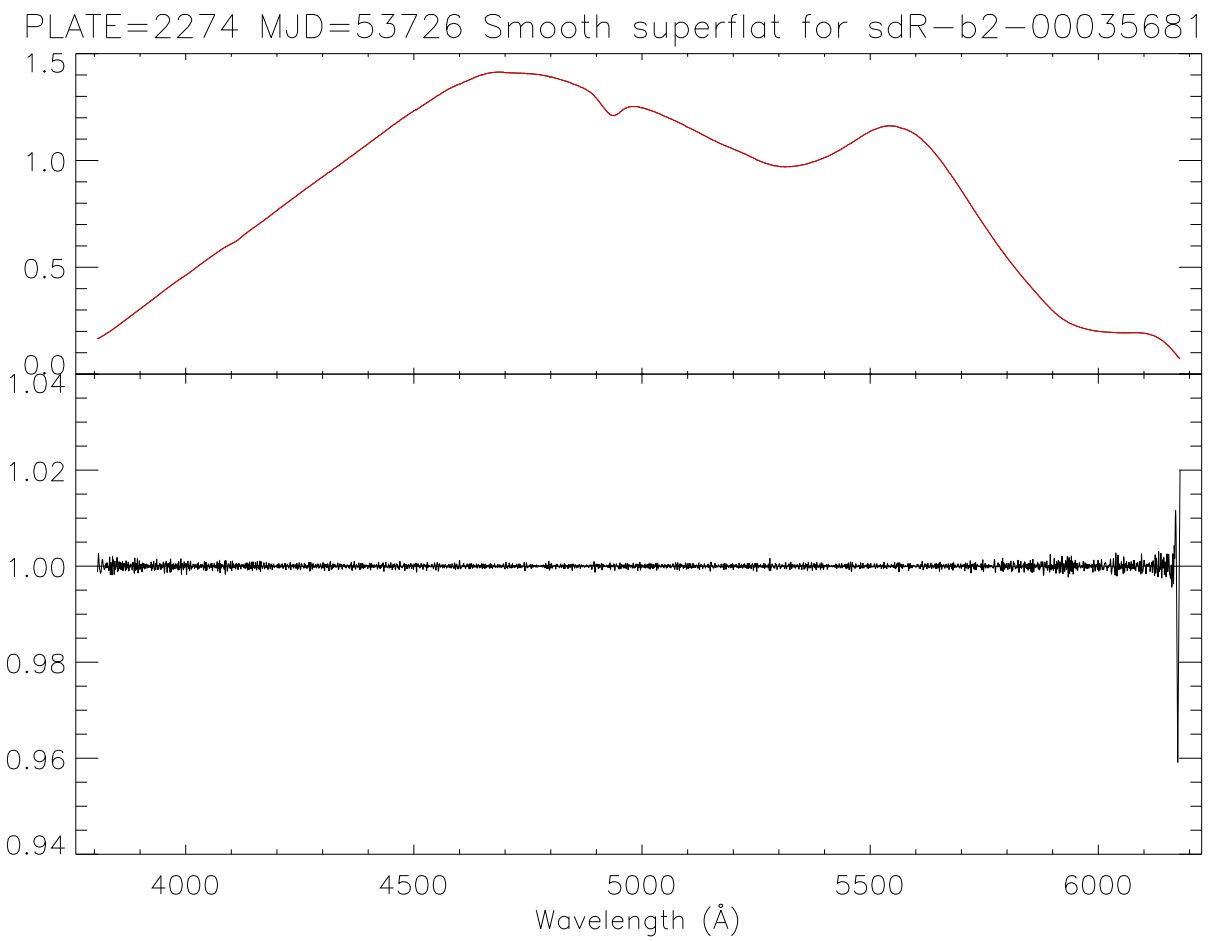

5889.9500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

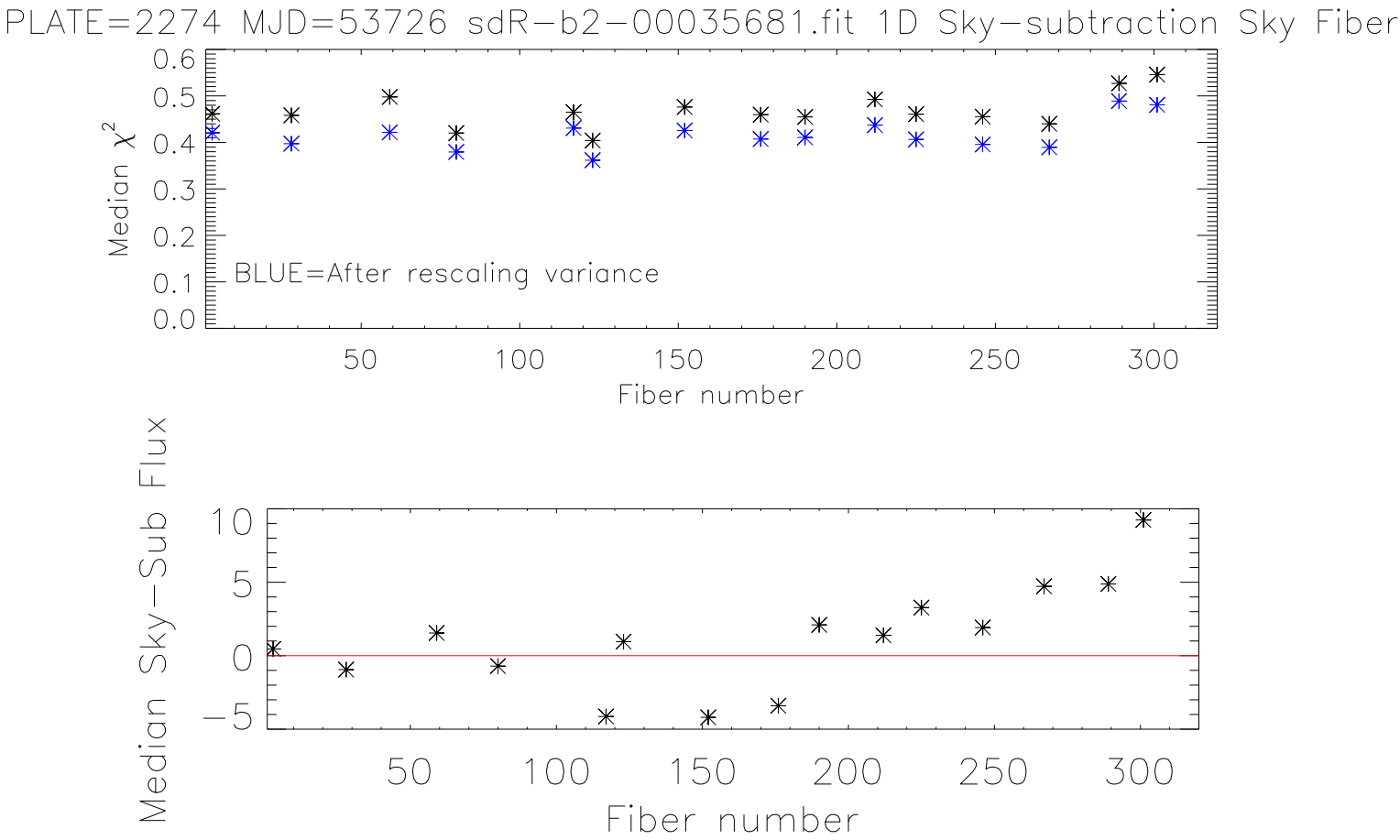

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

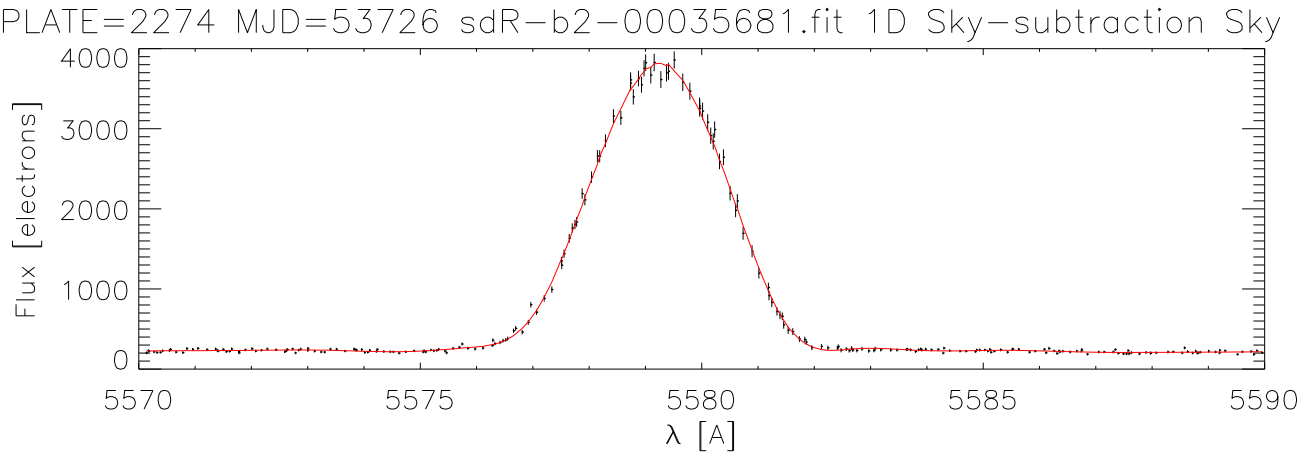

4046.5600
nfib1 16
nfib2 16
stdev 0.069
extra 0.02
4358.3300
nfib1 16
nfib2 16
stdev 0.059
extra 0.07
5460.9400
nfib1 16
nfib2 16
stdev 0.048
extra 0.04
5577.3390
nfib1 16
nfib2 16
stdev 0.015
extra 0.09
5889.9500
nfib1 15
nfib2 15
stdev 0.028
extra 0.14
5895.9240
nfib1 16
nfib2 16
stdev 0.032
extra 0.12
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

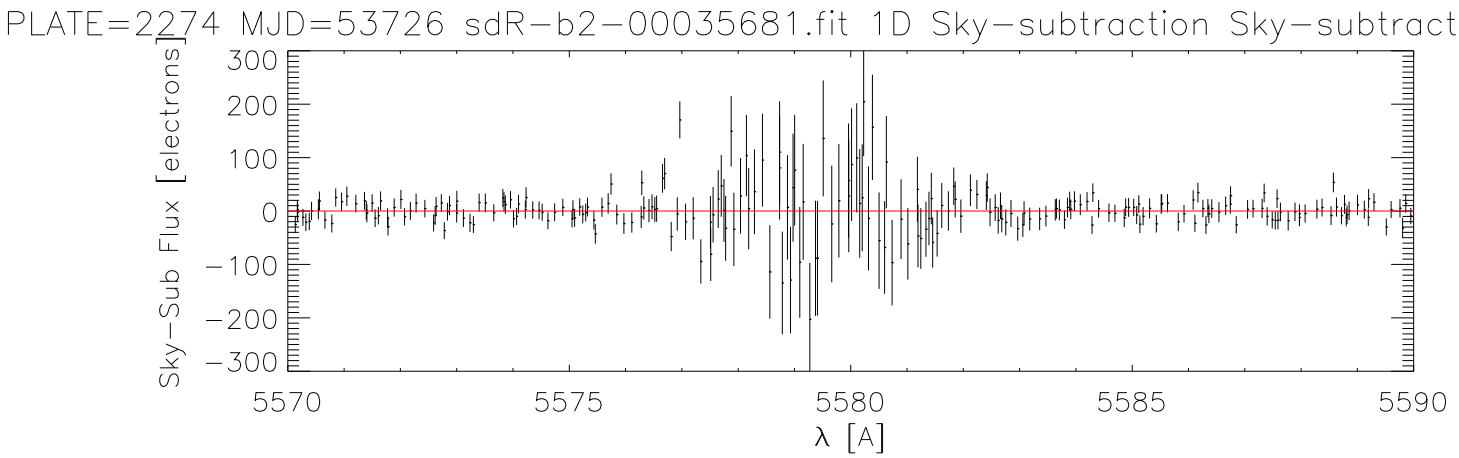

sky shift, pixels
0.15
0.10
0.05
0.00
−0.05
−0.10
3500
4000
4500
5000
5500
6000
6500

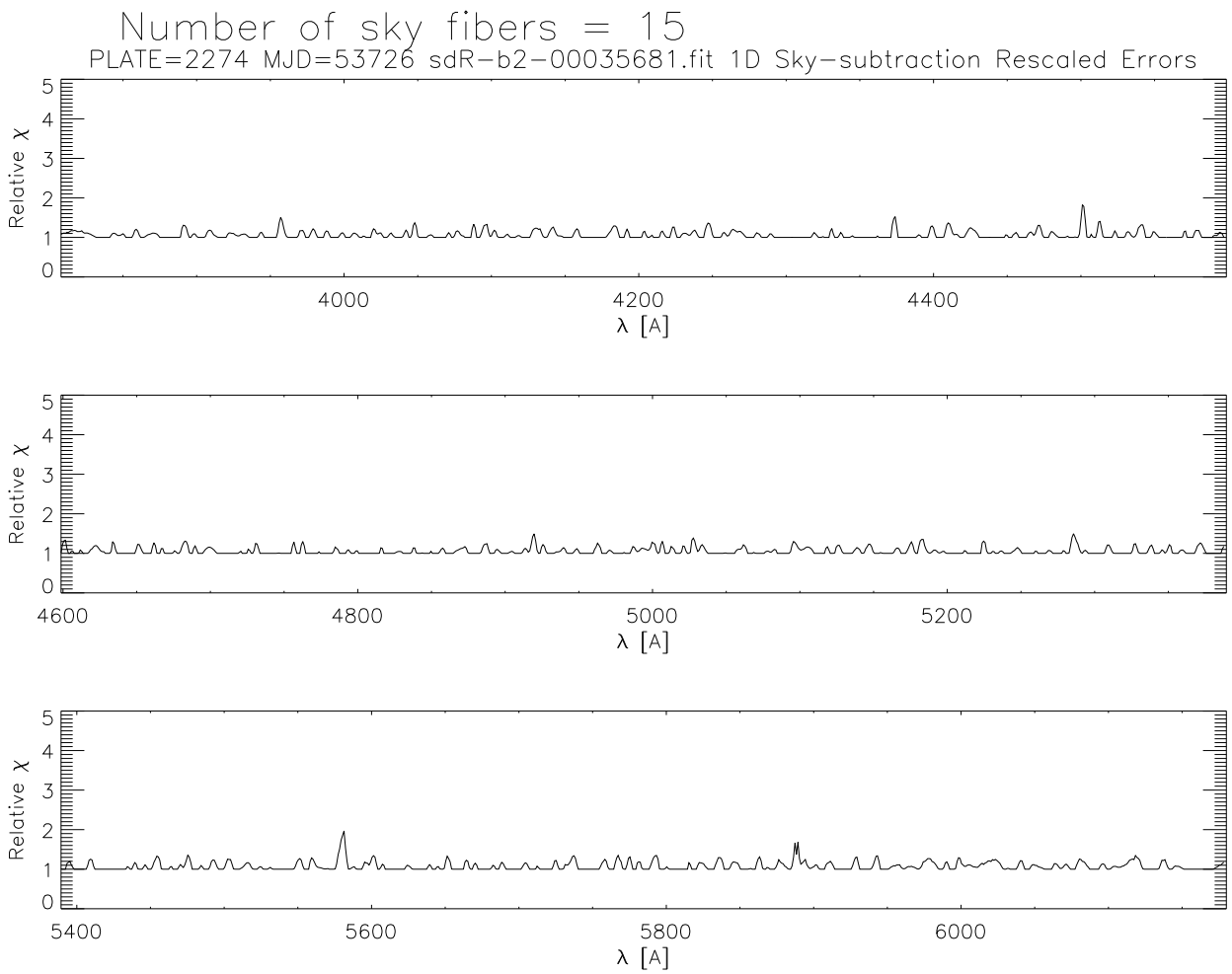
es= −0.0001

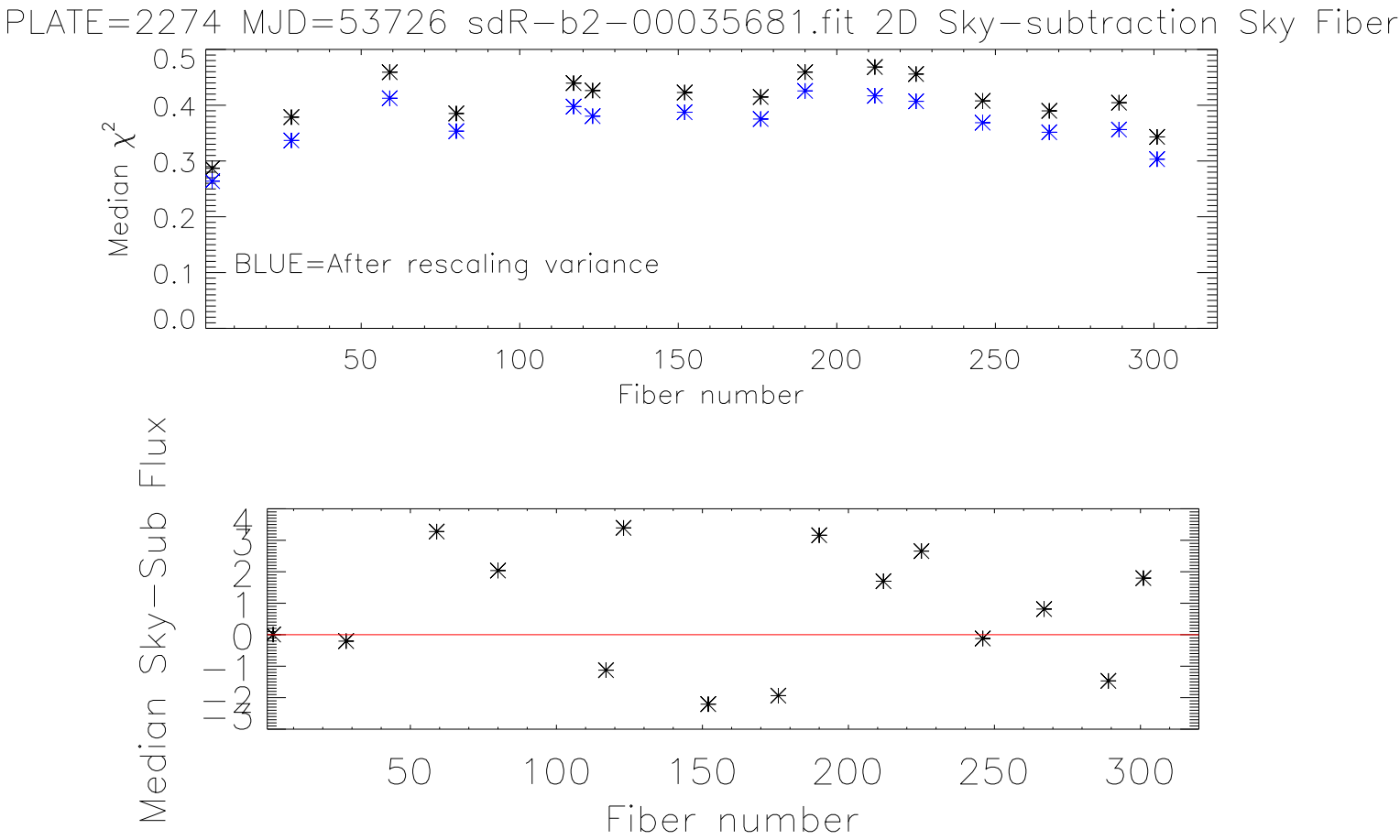

PLATE=2274 MJD=53726 Smooth superflat for sdR−b2−00035681.fit
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
0.94
4000
4500
5000
5500
6000
Wavelength (Å)

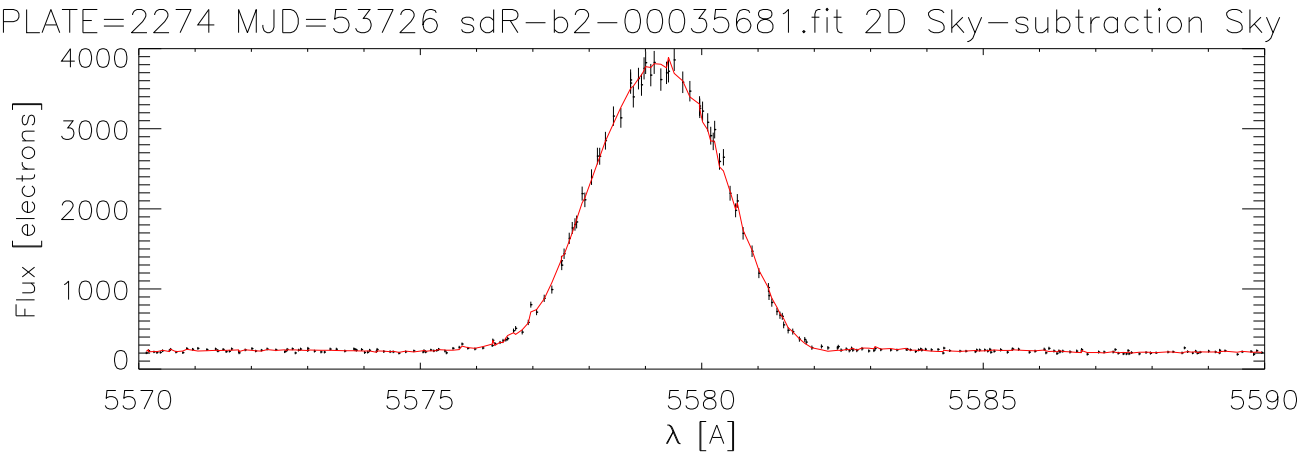

PLATE=2274 MJD=53726 sdR-b2-00035681.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

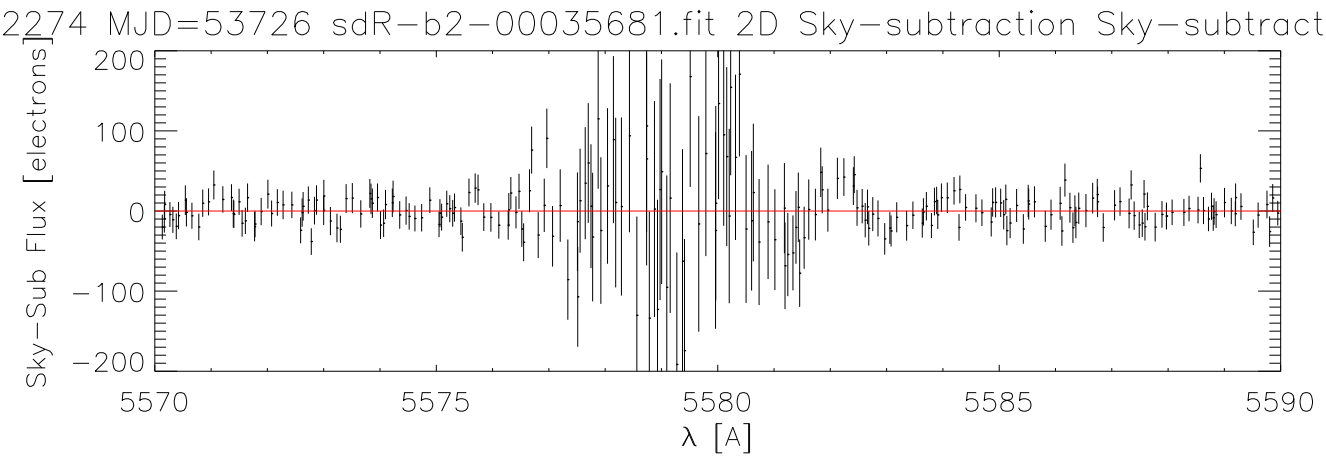

PLATE=2274 MJD=53726 sdR-b2-00035681.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

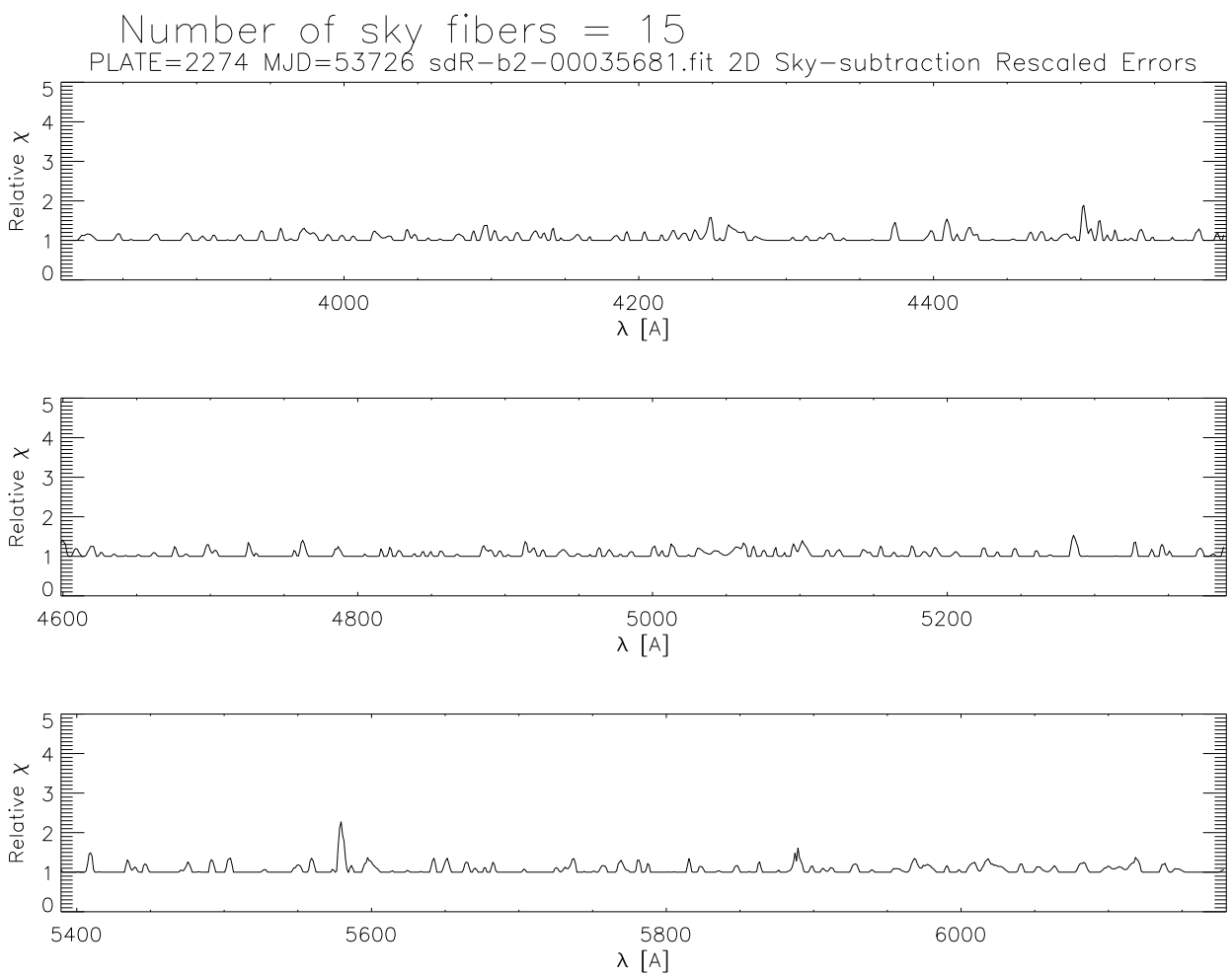

PLATE=2274 MJD=53726 sdR-b2-00035681.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

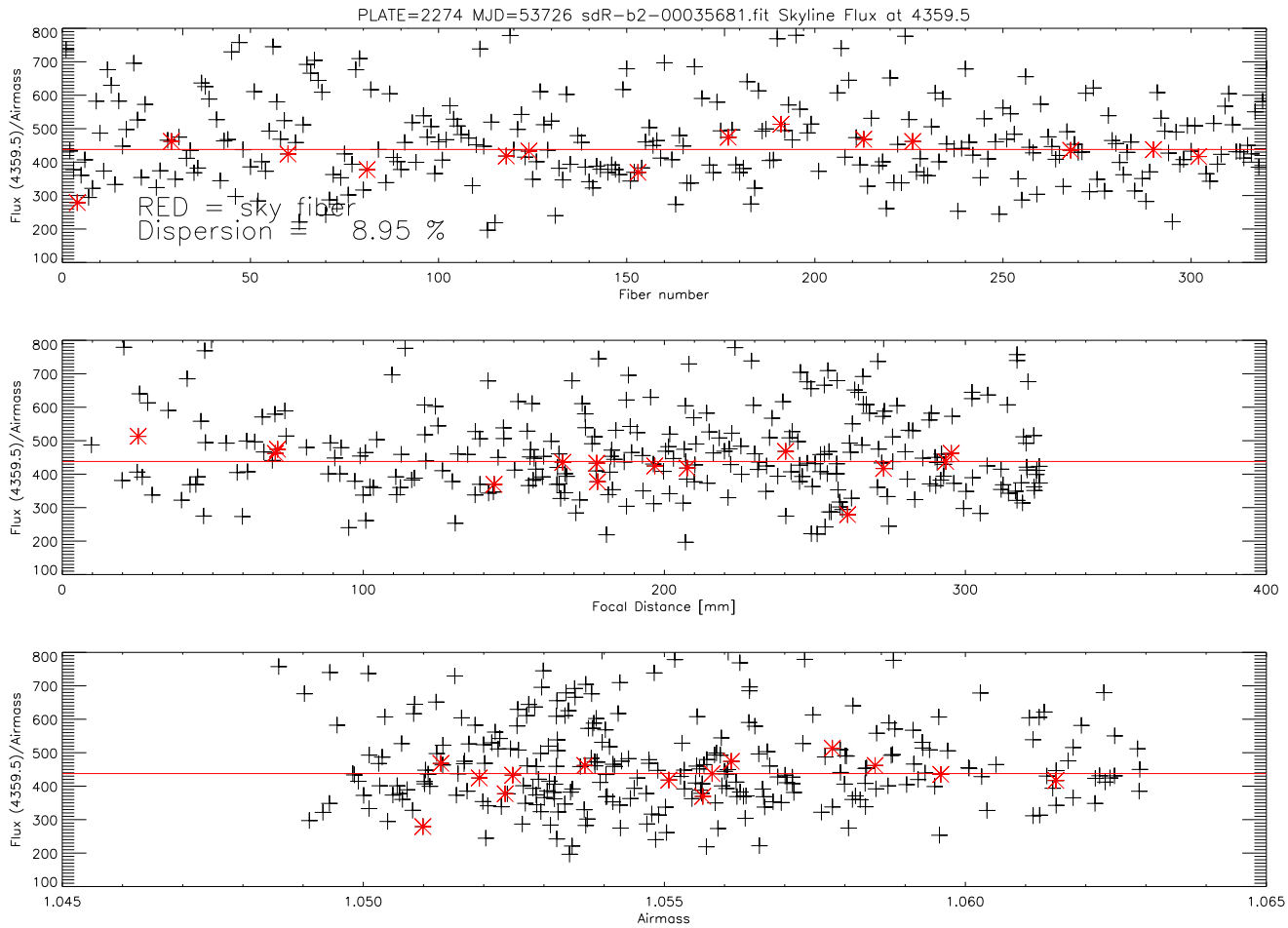

Number of sky fibers = 15
PLATE=2274 MJD=53726 sdR-b2-00035681.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

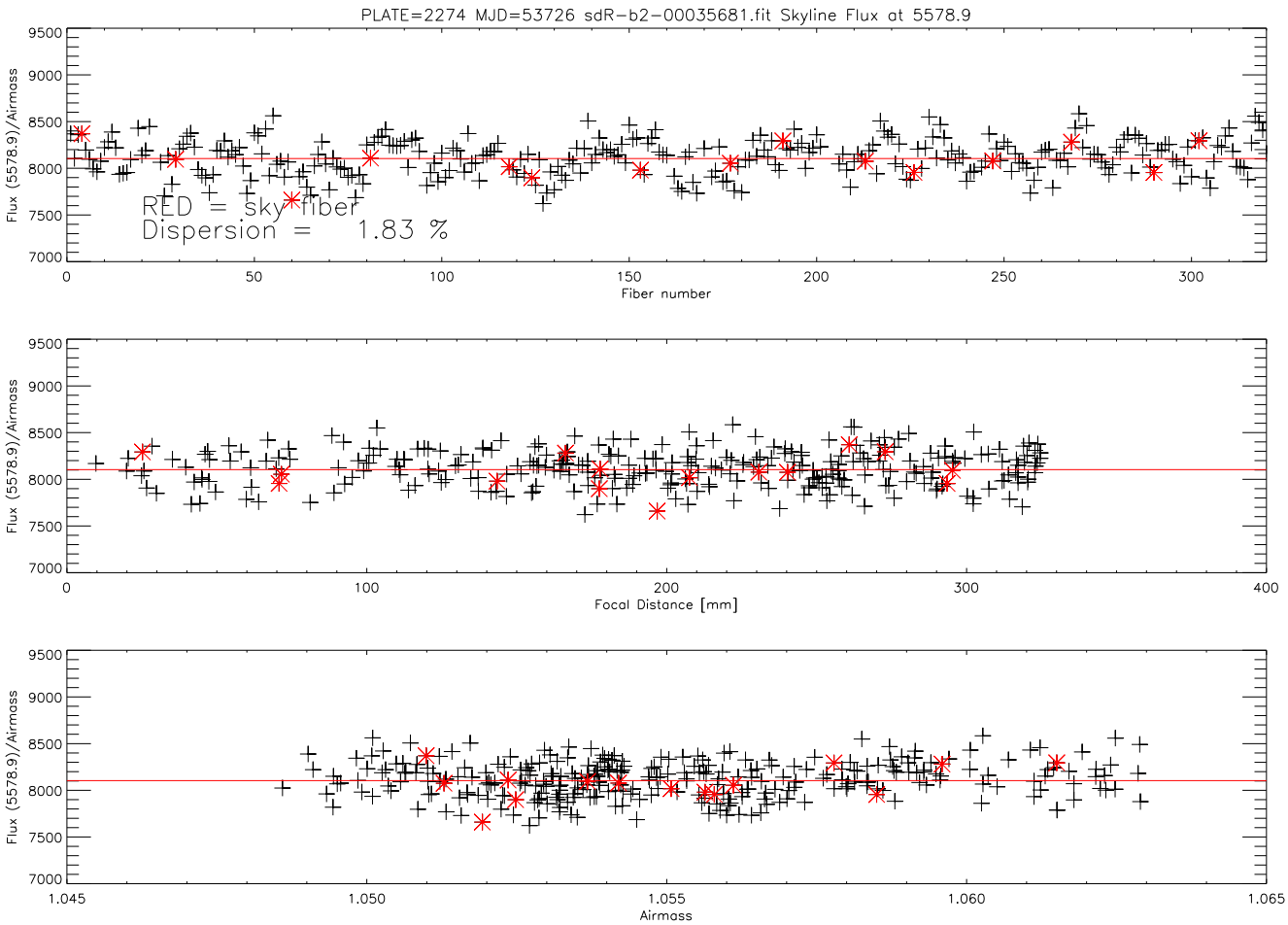

PLATE=2274 MJD=53726 sdR-b2-00035681.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-3
-2
-1
0
1
2
3
4
50
100
150
200
250
300
Fiber number

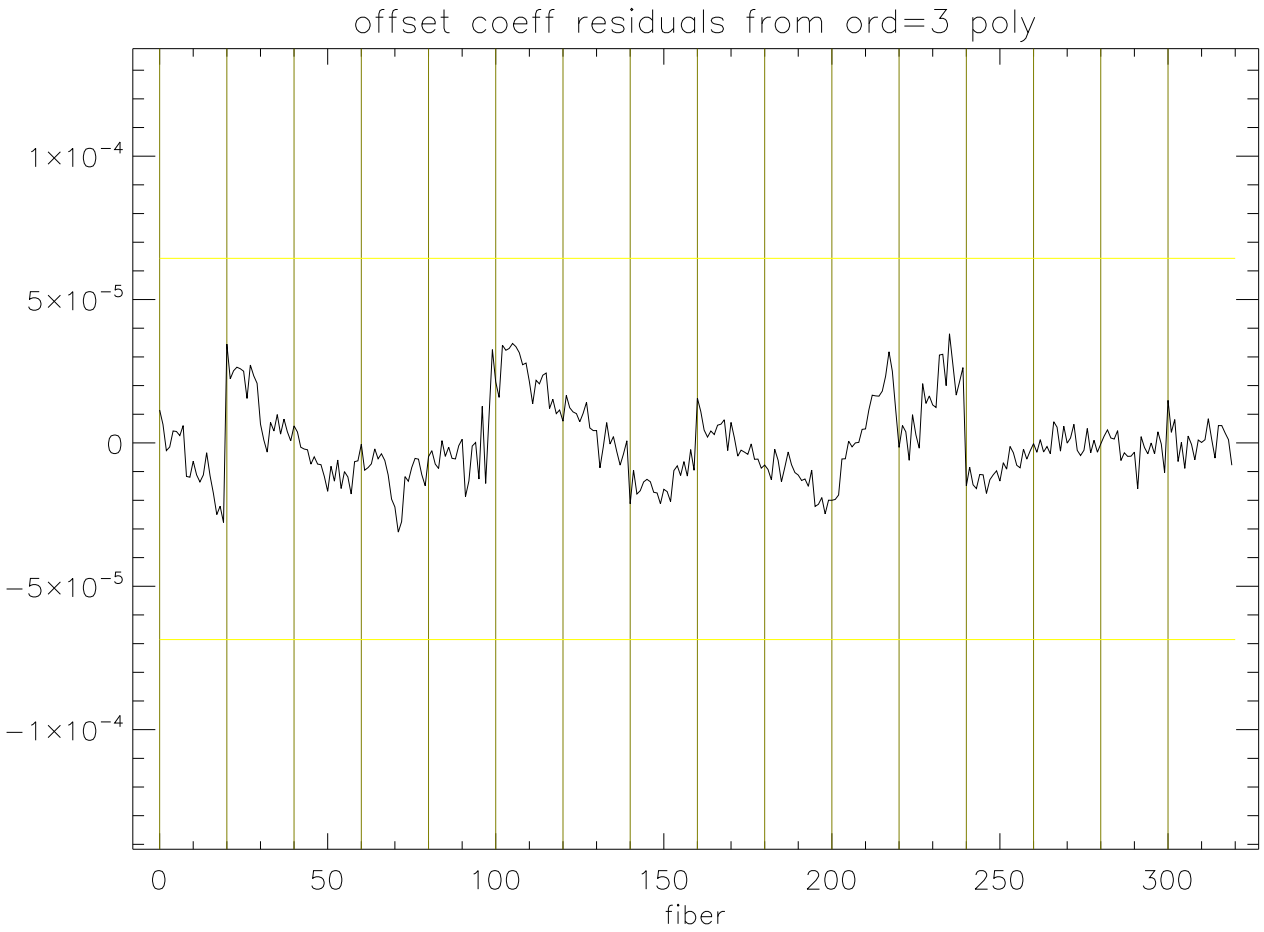

PLATE=2274 MJD=53726 sdR-b2-00035681.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

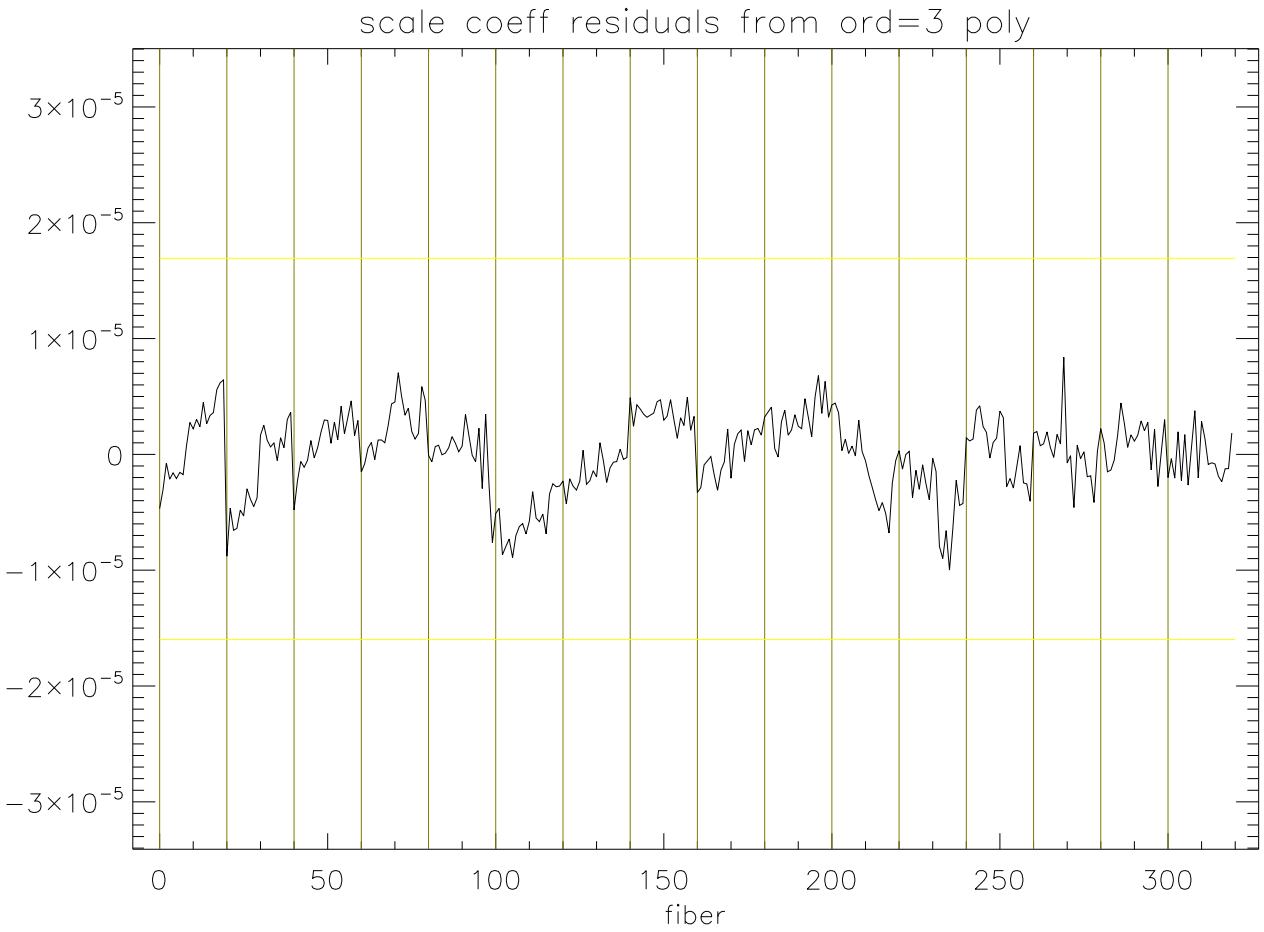

PLATE=2274 MJD=53726 sdR-b2-00035681.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

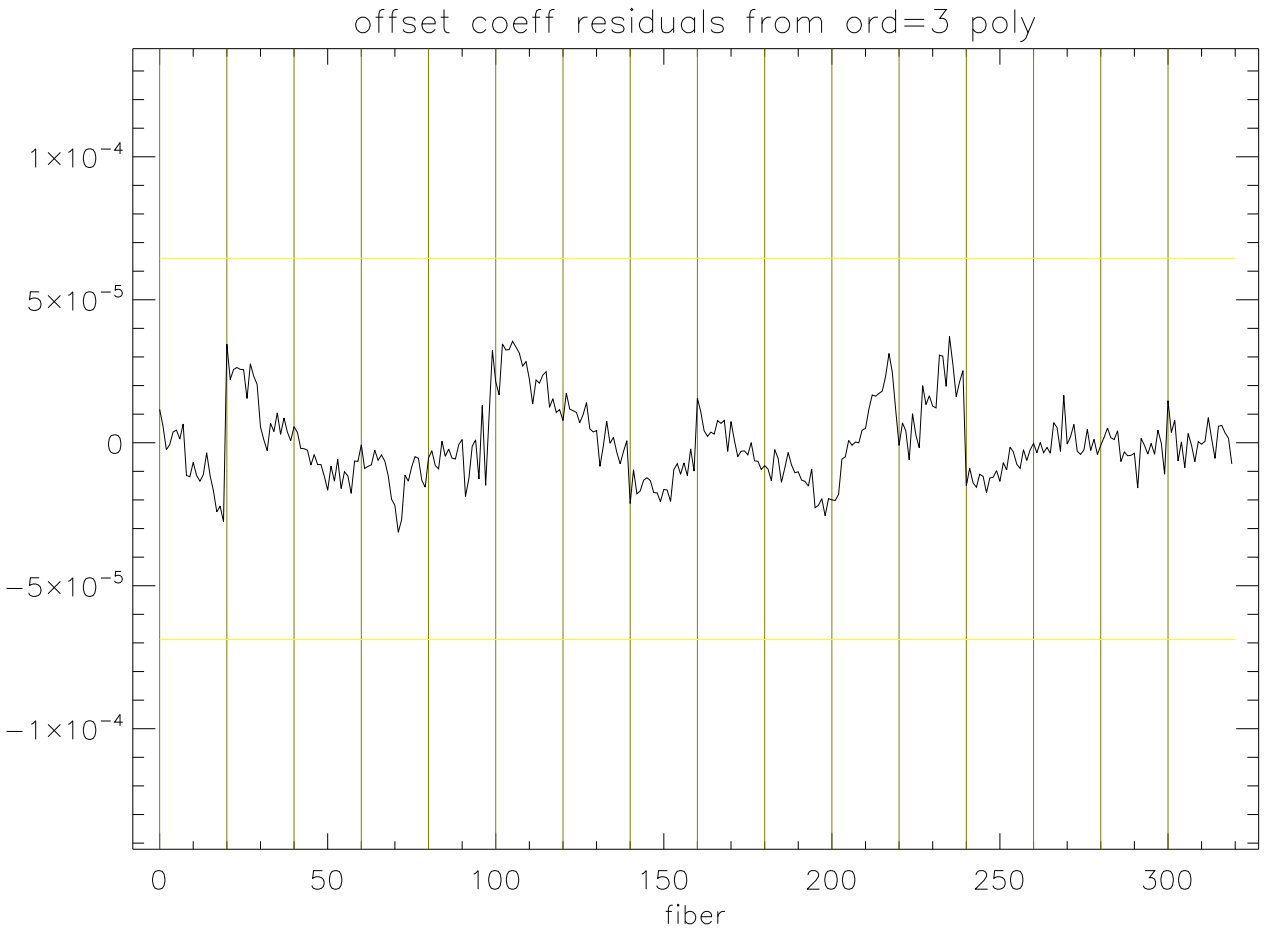

Number of sky fibers = 15
PLATE=2274 MJD=53726 sdR-b2-00035681.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

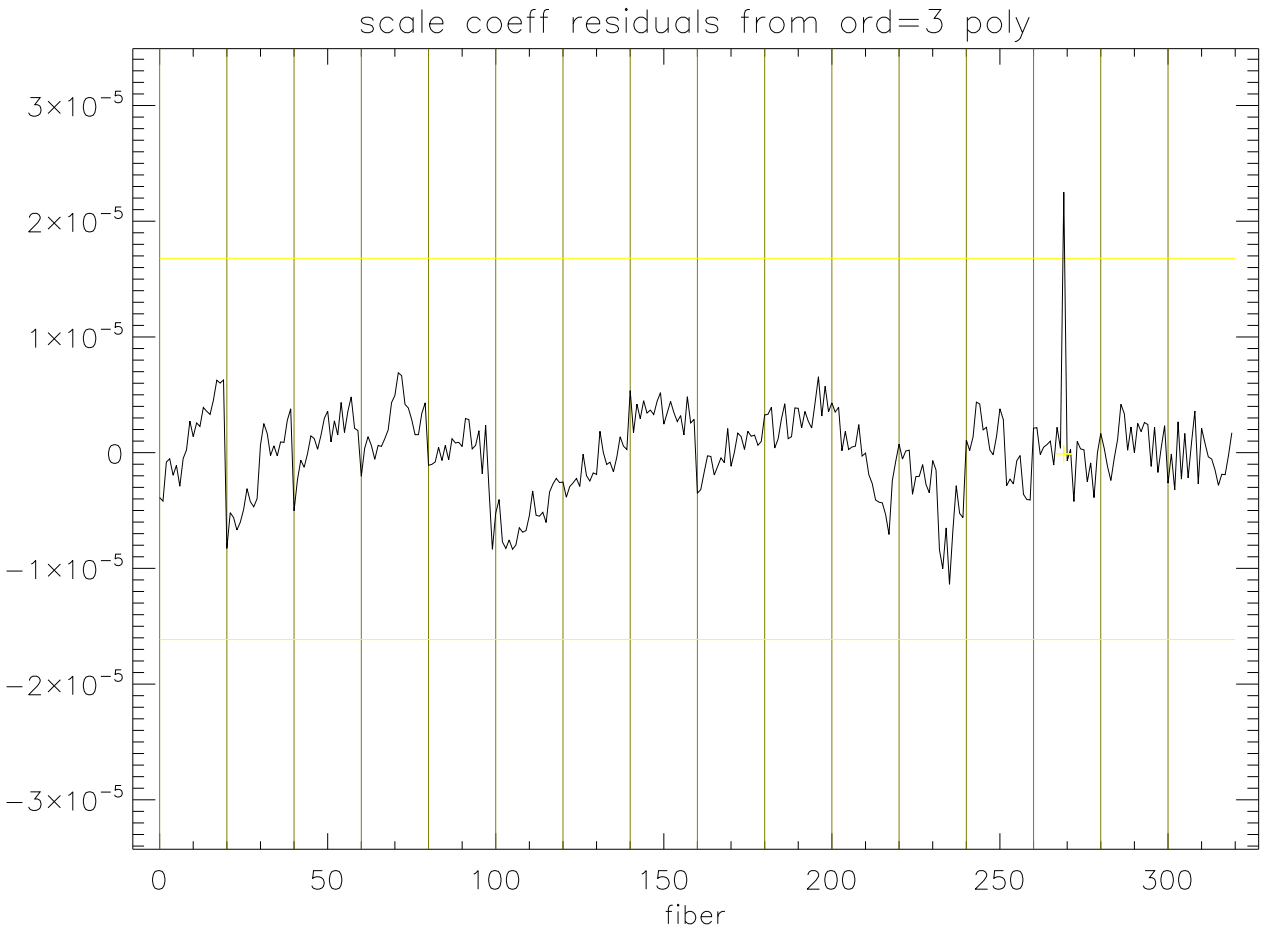

PLATE=2274 MJD=53726 sdR-b2-00035681.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 8.95 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

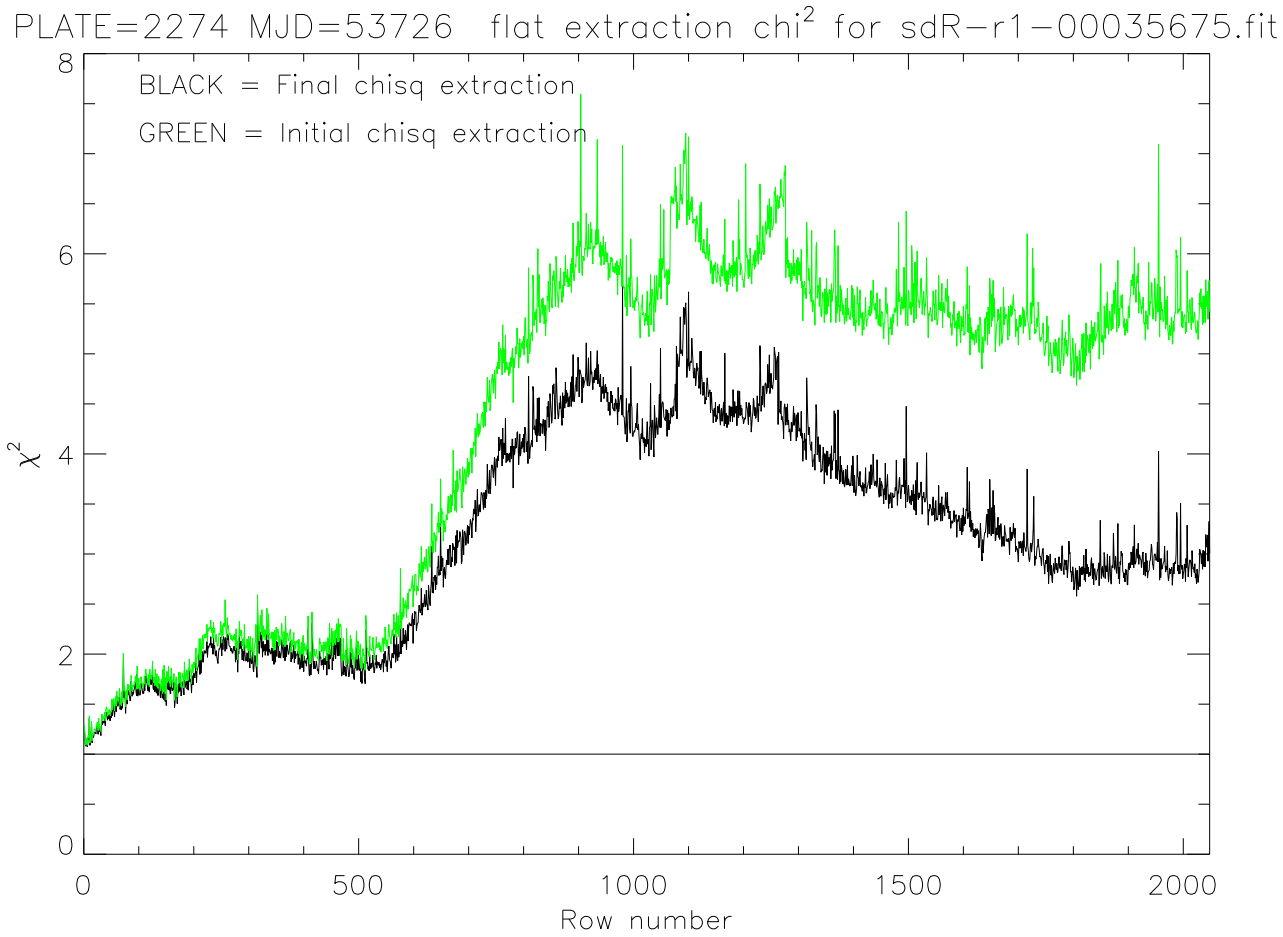

PLATE=2274 MJD=53726 sdR-b2-00035681.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.83 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

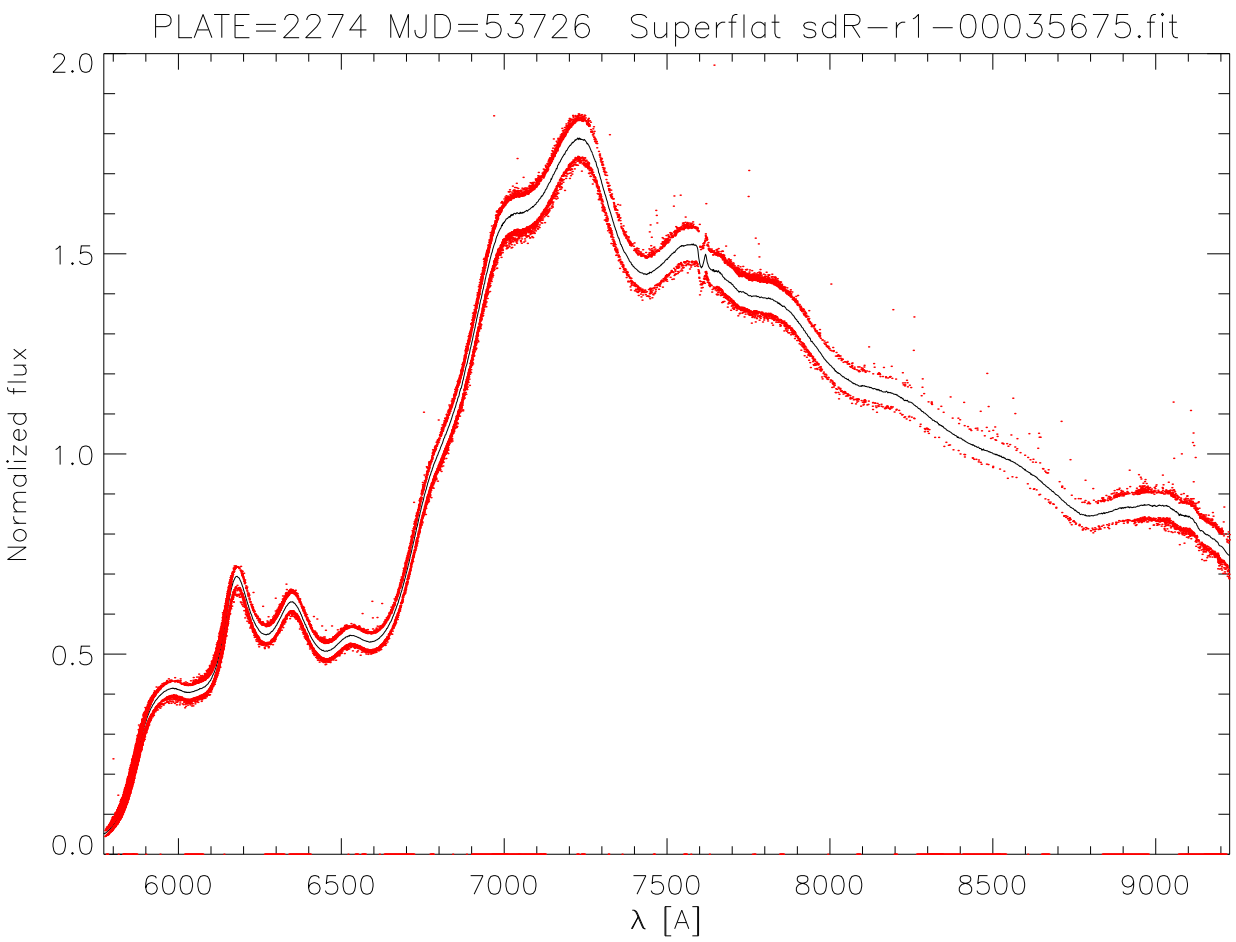

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

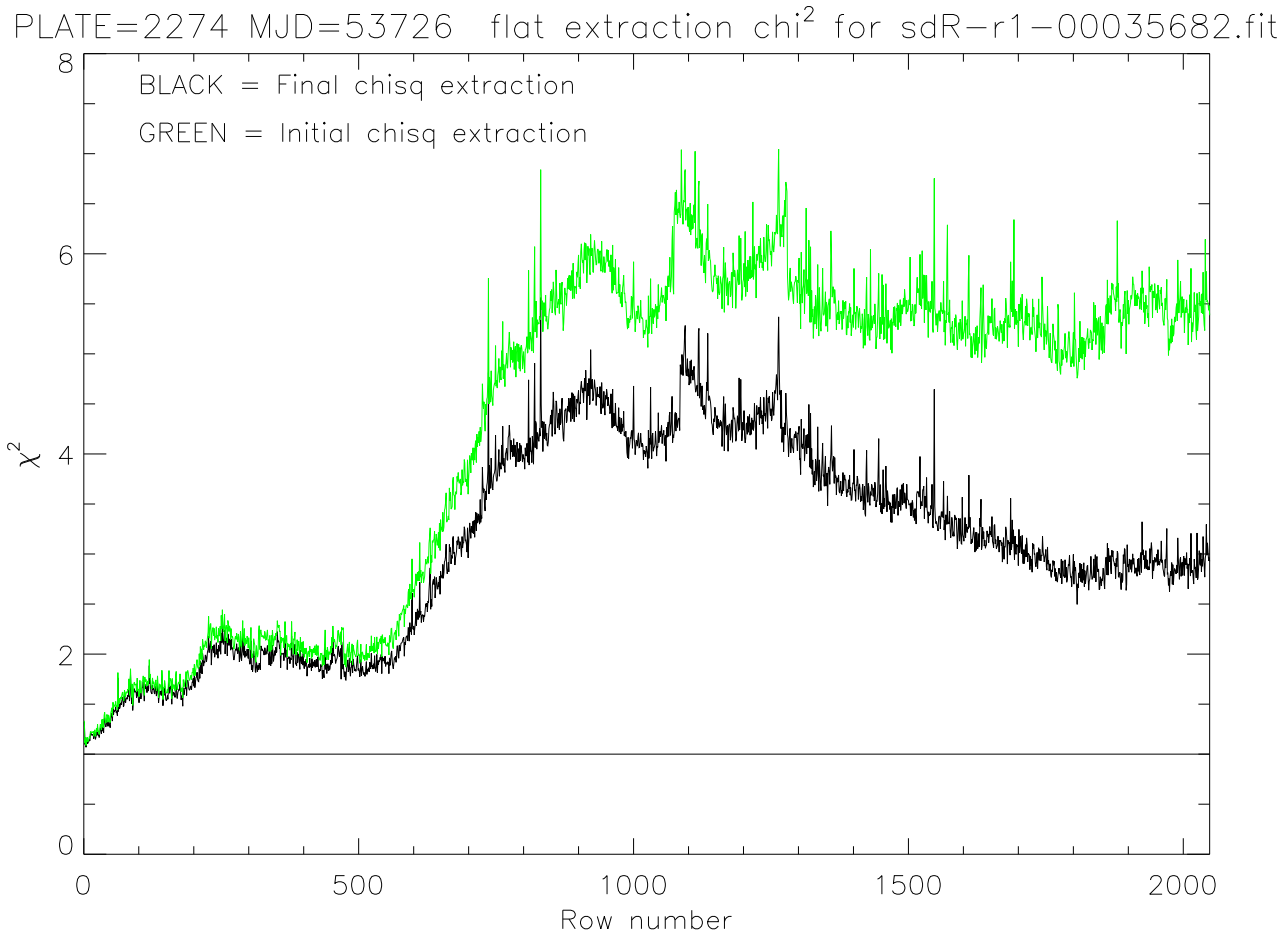

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

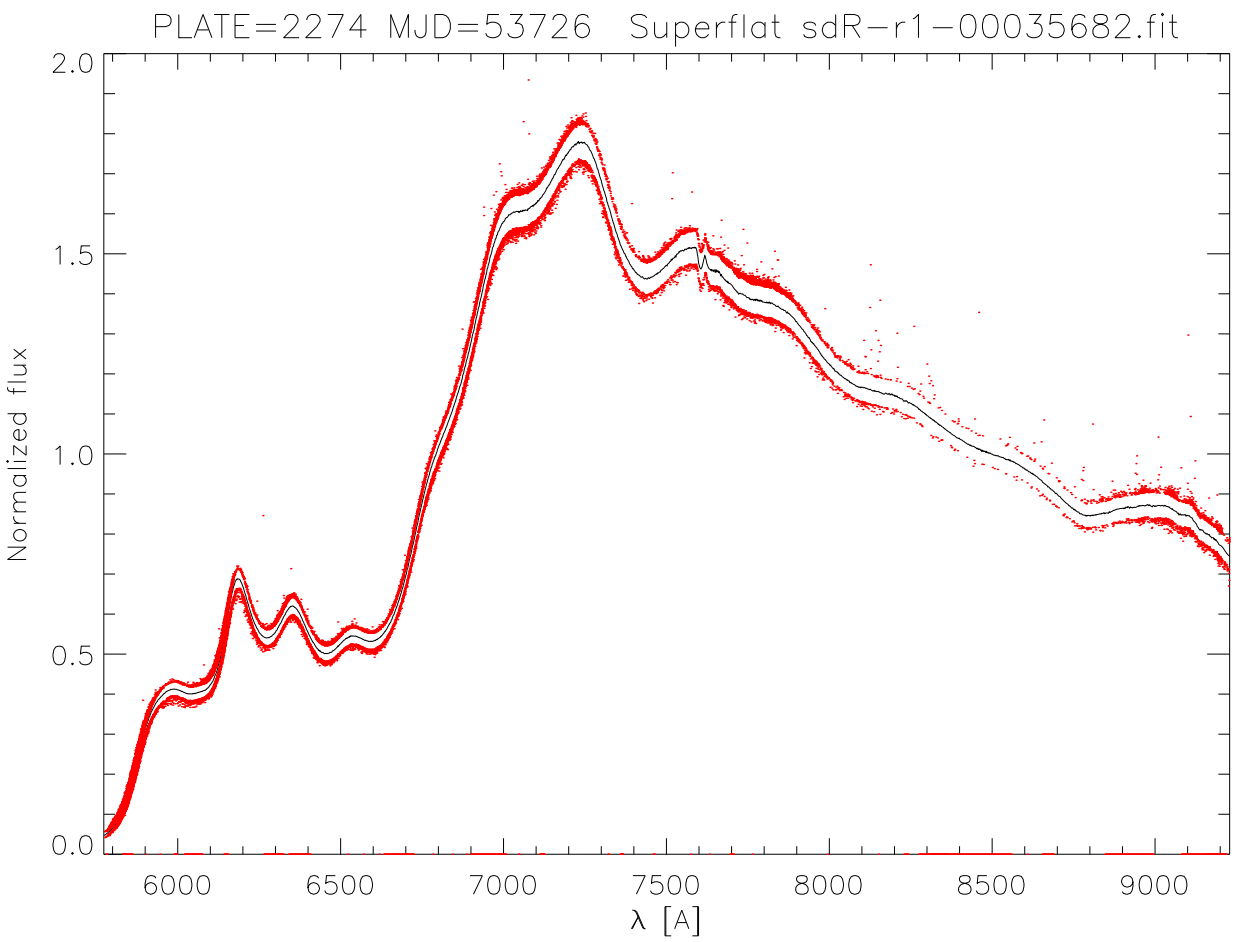

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

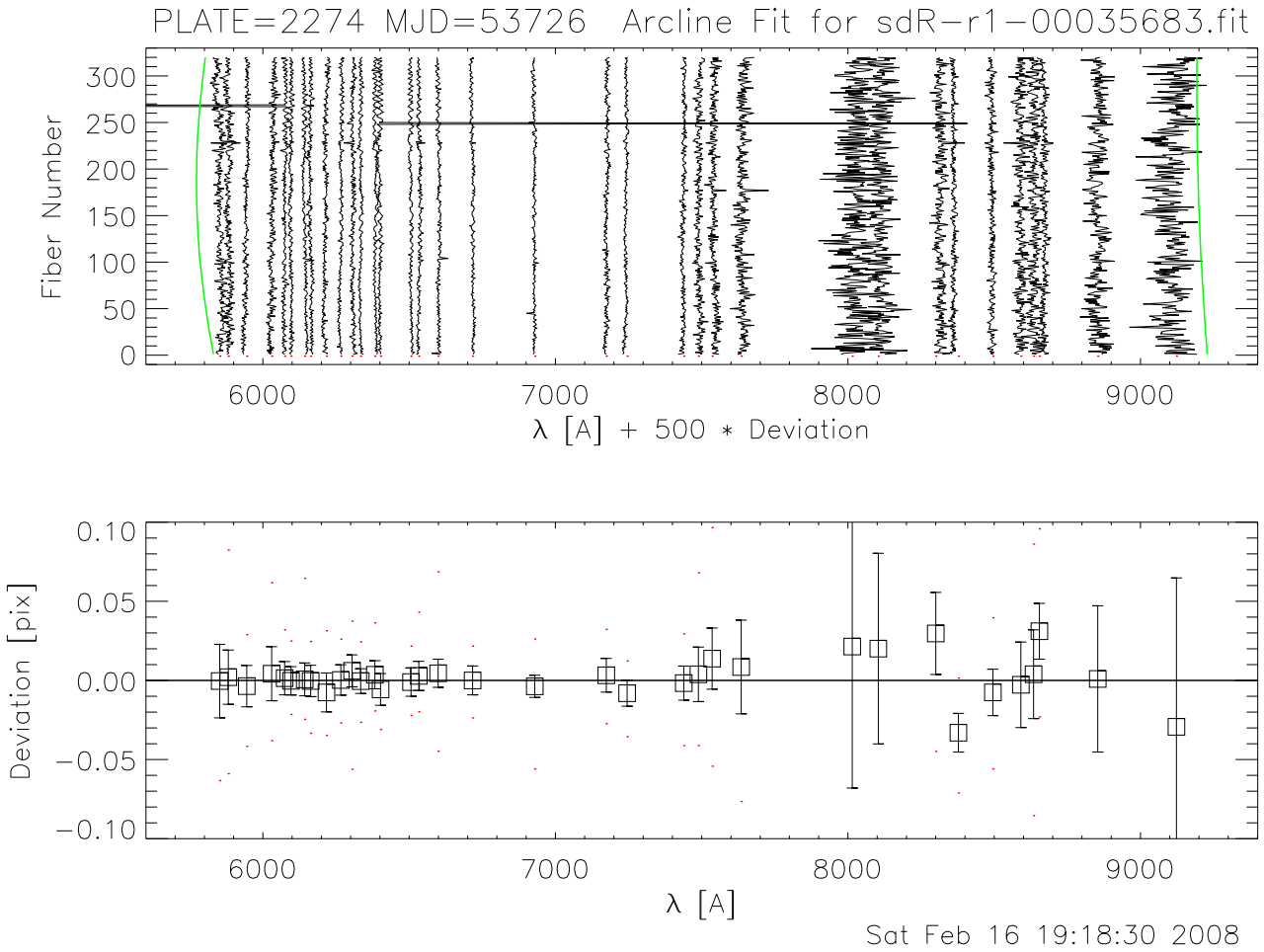

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

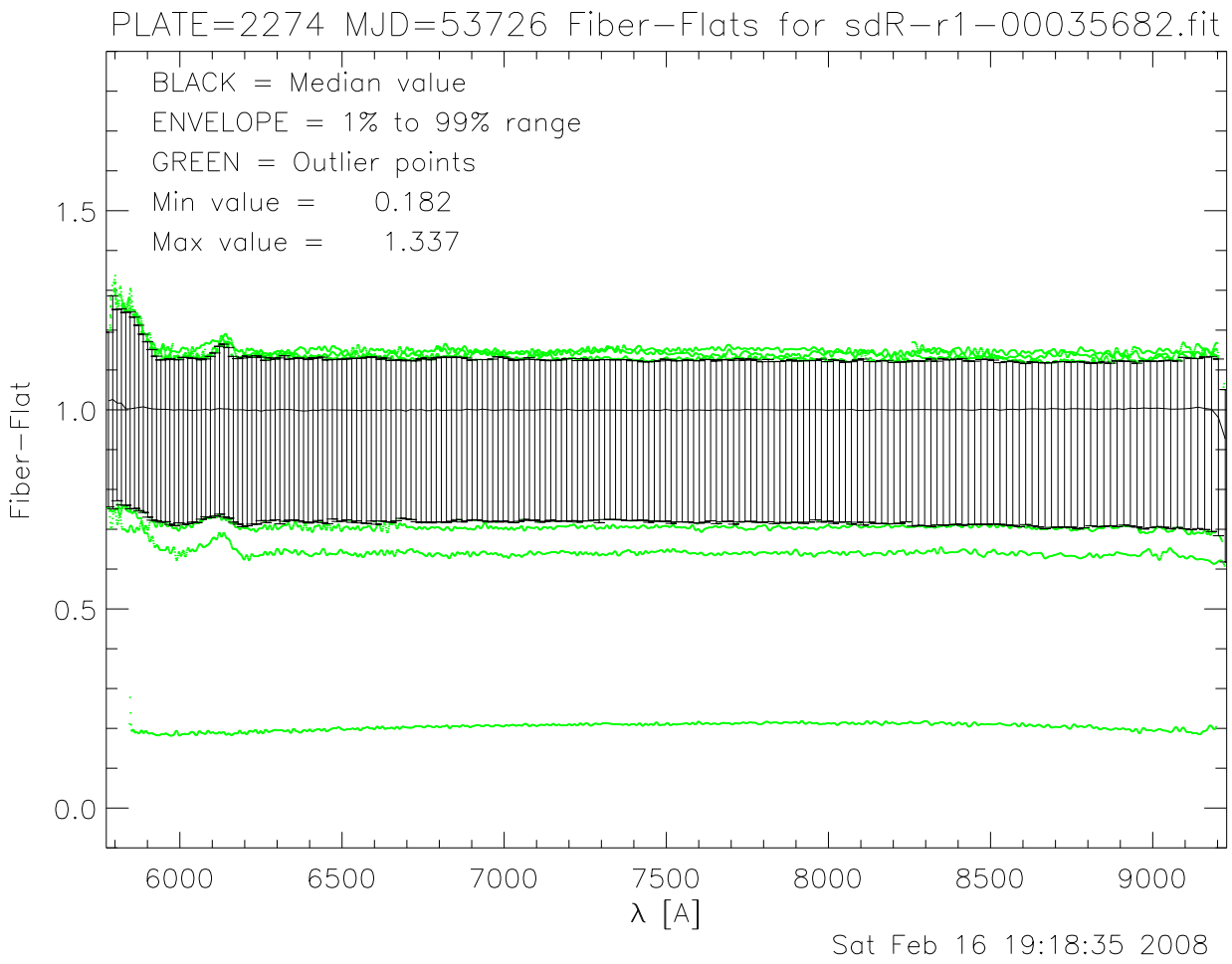

PLATE=2274 MJD=53726 flat extraction chi^2 for sdR−r1−00035675.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

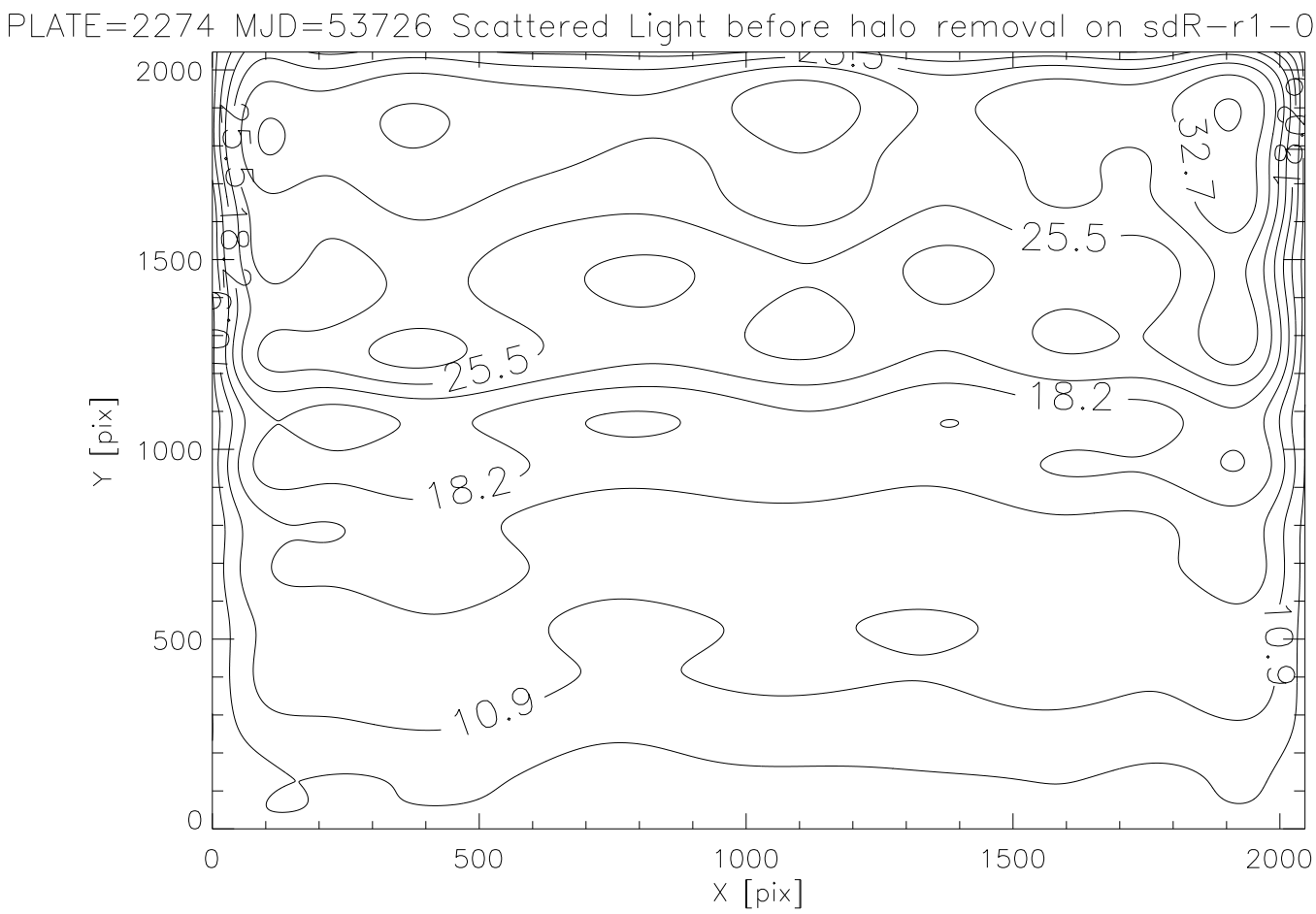

PLATE=2274 MJD=53726 Superflat sdR-r1-00035675.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

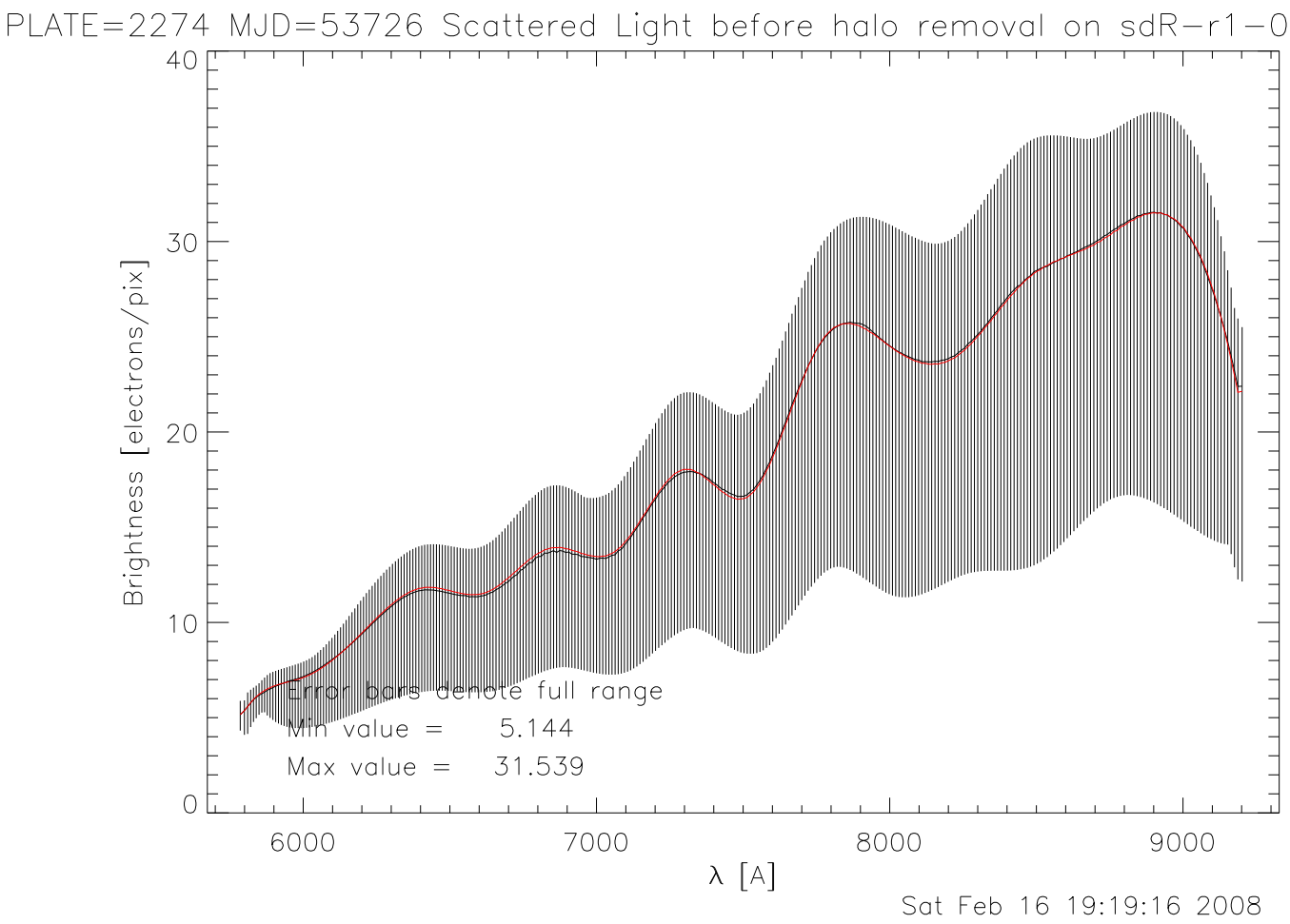

PLATE=2274 MJD=53726 flat extraction chi^2 for sdR−r1−00035682.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

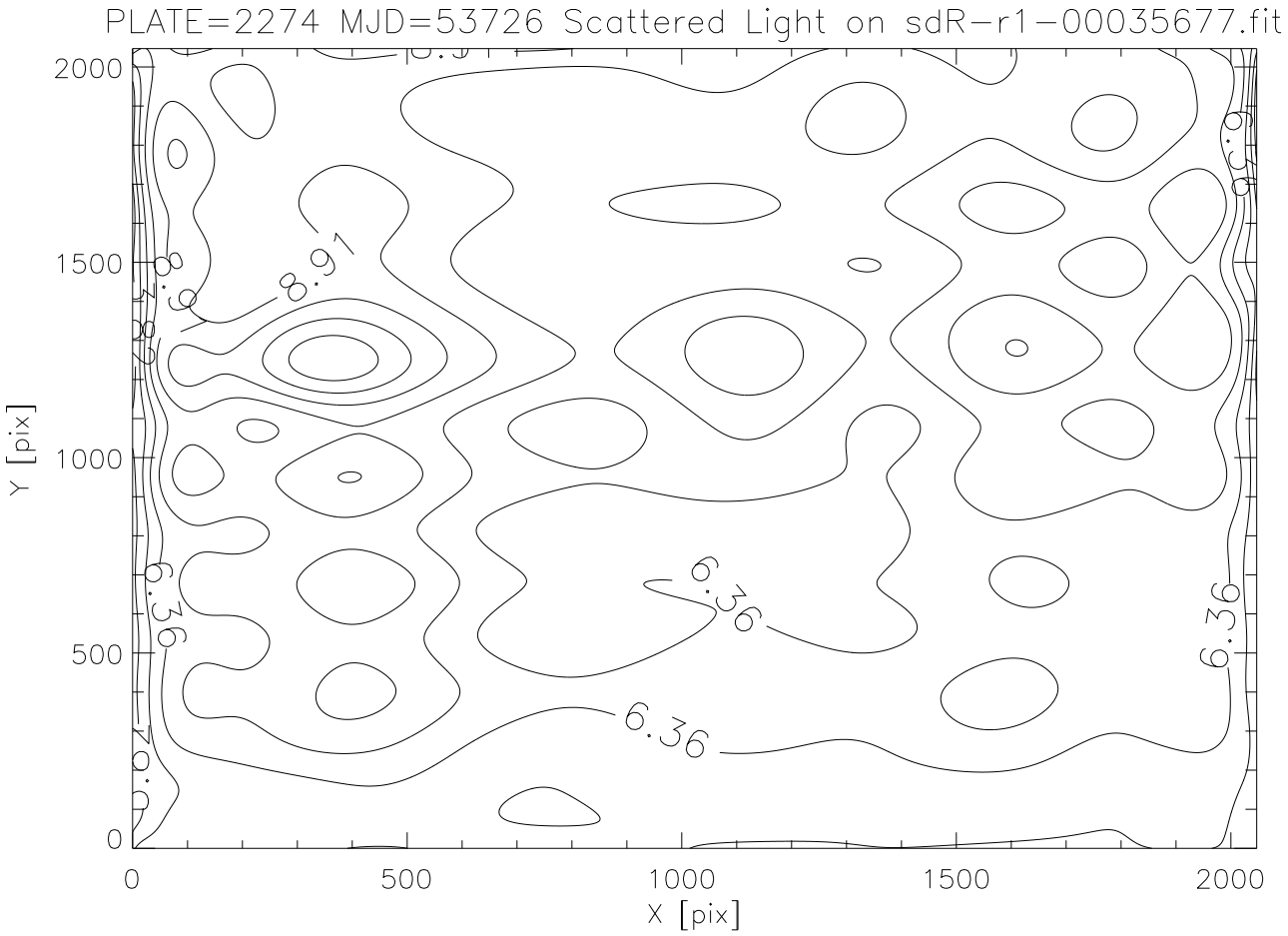

PLATE=2274 MJD=53726 Superflat sdR-r1-00035682.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

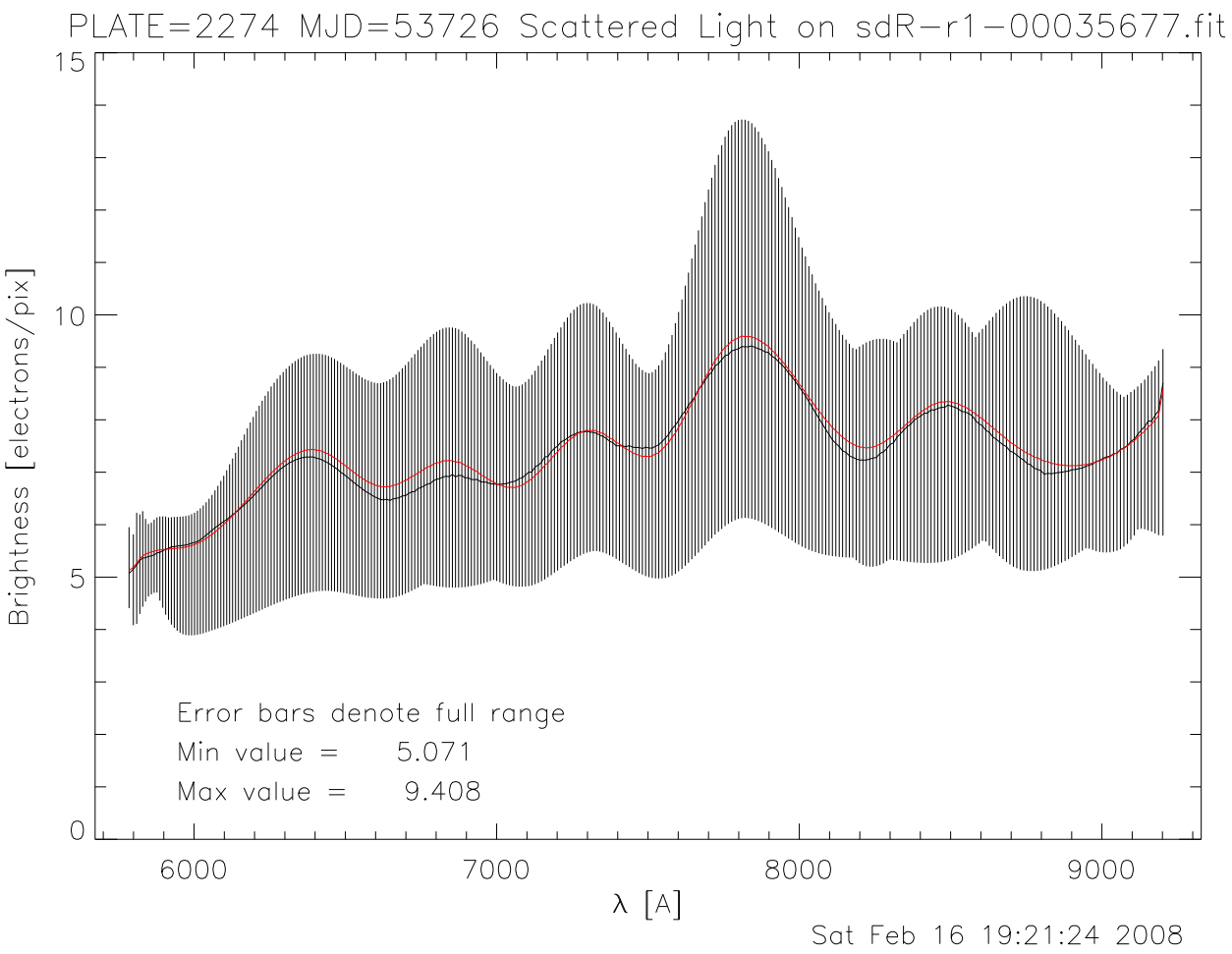

PLATE=2274 MJD=53726 Arcline Fit for sdR-r1-00035683.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Sat Feb 16 19:18:30 2008

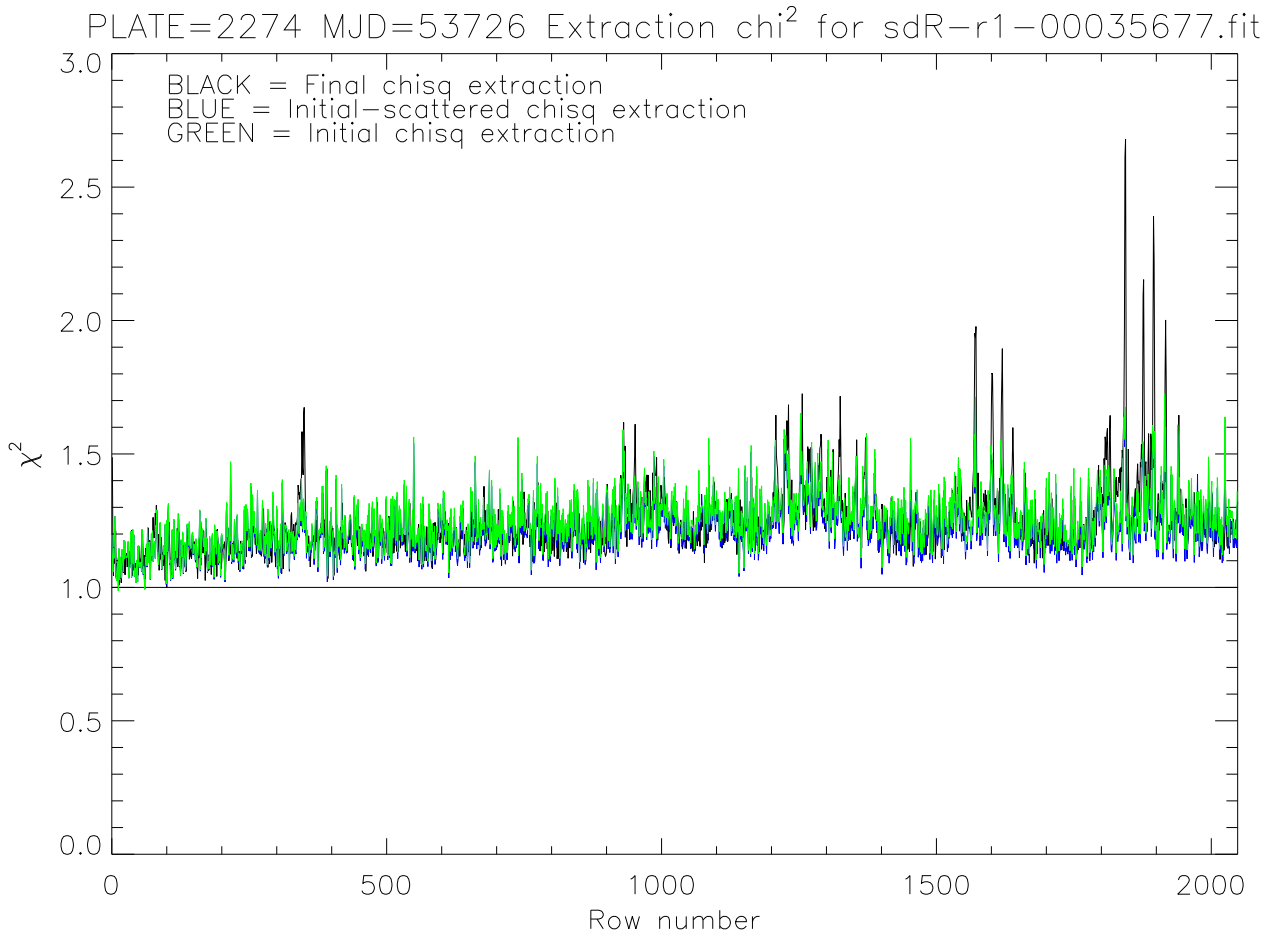

PLATE=2274 MJD=53726 Fiber−Flats for sdR−r1−00035682.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.182
Max value = 1.337
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sat Feb 16 19:18:35 2008

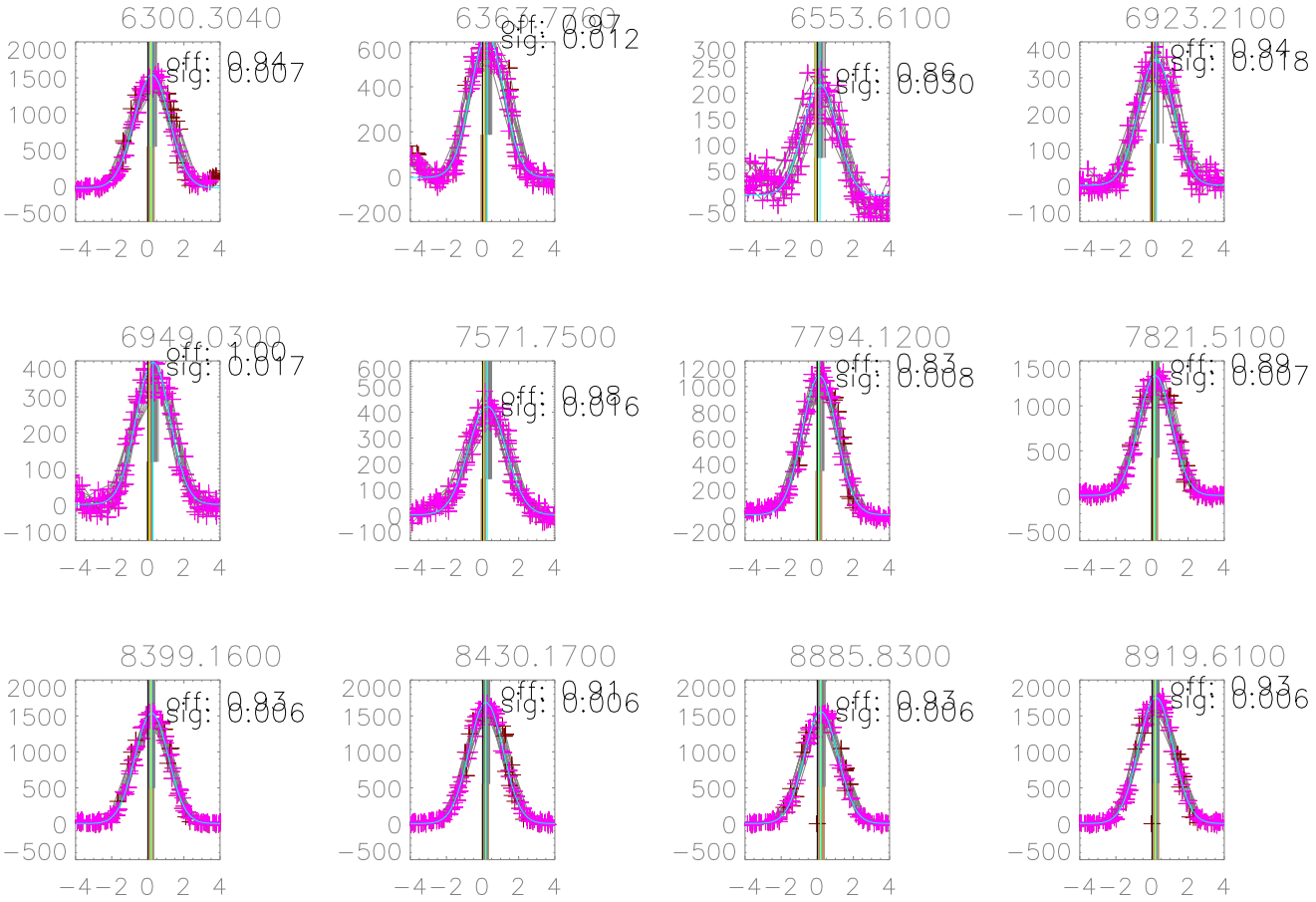

PLATE=2274 MJD=53726 Scattered Light before halo removal on sdR-r1-00035677.fi
25.5
32.7
25.5
18.2
25.5
18.2
10.9
10.9
Y [pix]
X [pix]
0
500
1000
1500
2000

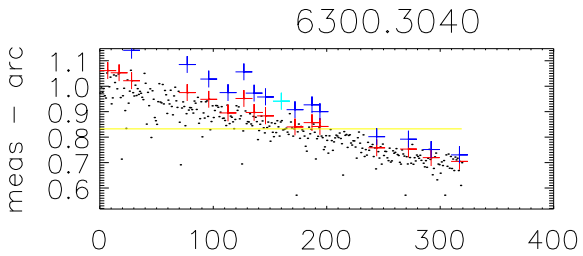

PLATE=2274 MJD=53726 Scattered Light before halo removal on sdR-r1-00035677.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.144
Max value = 31.539
Sat Feb 16 19:19:16 2008

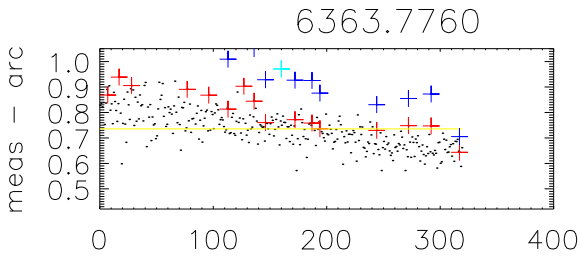

PLATE=2274 MJD=53726 Scattered Light on sdR-r1-00035677.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
8.91
8.91
6.36
6.36
6.36
6.36
0

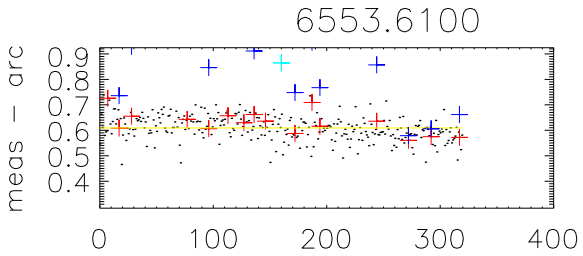

PLATE=2274 MJD=53726 Scattered Light on sdR-r1-00035677.fit
Brightness [electrons/pix]
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 5.071
Max value = 9.408
Sat Feb 16 19:21:24 2008

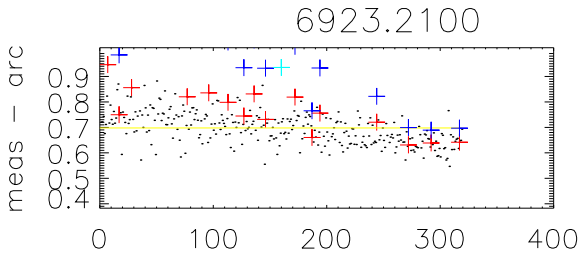

PLATE=2274 MJD=53726 Extraction chi^2 for sdR−r1−00035677.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

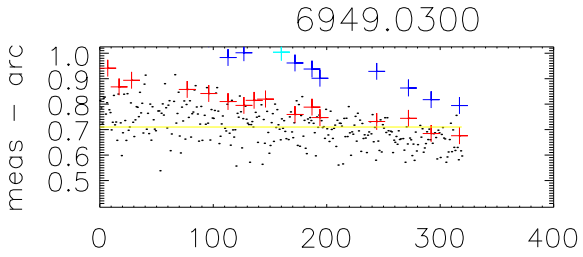

6300.3040
off: 0.94
sig: 0.007
6367.7700
off: 0.97
sig: 0.012
6553.6100
off: 0.86
sig: 0.030
6923.2100
off: 0.94
sig: 0.018
6949.0300
off: 1.00
sig: 0.017
7571.7500
off: 0.88
sig: 0.016
7794.1200
off: 0.83
sig: 0.008
7821.5100
off: 0.89
sig: 0.007
8399.1600
off: 0.83
sig: 0.006
8430.1700
off: 0.91
sig: 0.006
8885.8300
off: 0.83
sig: 0.006
8919.6100
off: 0.93
sig: 0.006

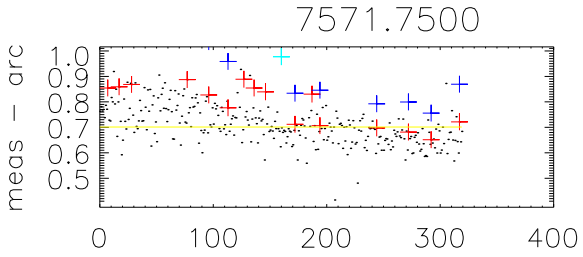

6300.3040
meas − arc
1.1
1.0
0.9
0.8
0.7
0.6
0
100
200
300
400

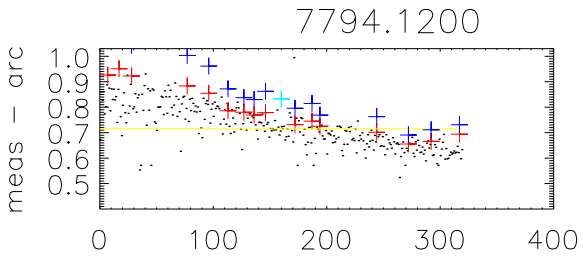

6363.7760
meas − arc
1.0
0.9
0.8
0.7
0.6
0.5
0
100
200
300
400

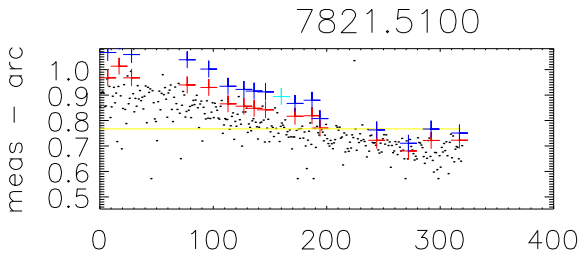

6553.6100
meas − arc
0.9
0.8
0.7
0.6
0.5
0.4
0
100
200
300
400

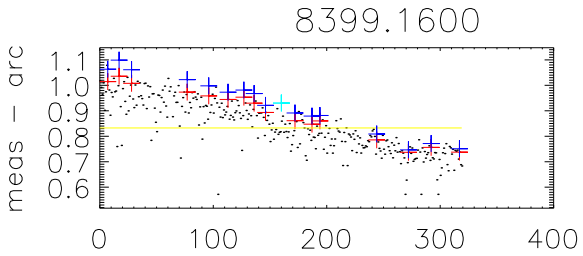

6923.2100
meas − arc
0.9
0.8
0.7
0.6
0.5
0.4
0
100
200
300
400

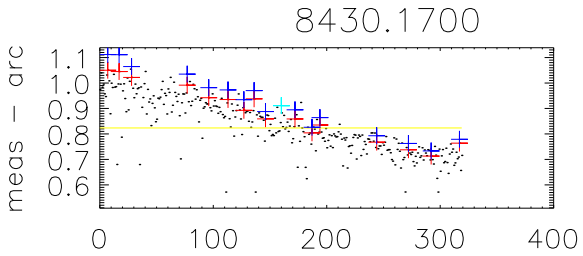

6949.0300
meas − arc
1.0
0.9
0.8
0.7
0.6
0.5
0
100
200
300
400

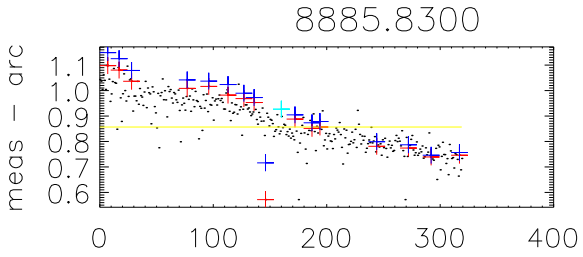

7571.7500
meas − arc
1.0
0.9
0.8
0.7
0.6
0.5
0
100
200
300
400

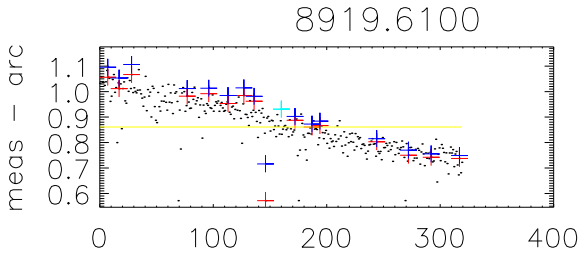

7794.1200
meas − arc
1.0
0.9
0.8
0.7
0.6
0.5
0
100
200
300
400

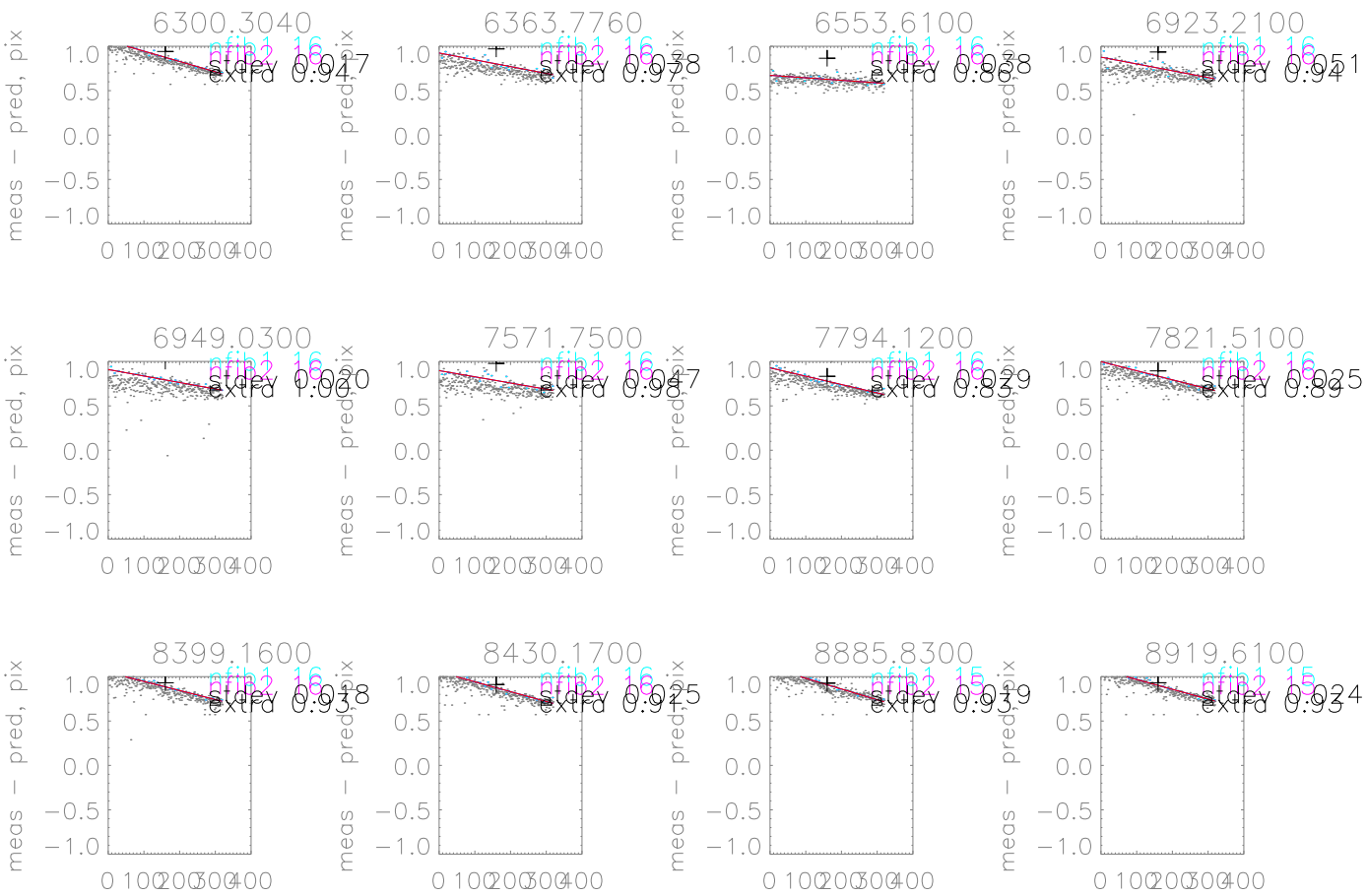

7821.5100
meas − arc
1.0
0.9
0.8
0.7
0.6
0.5
0
100
200
300
400

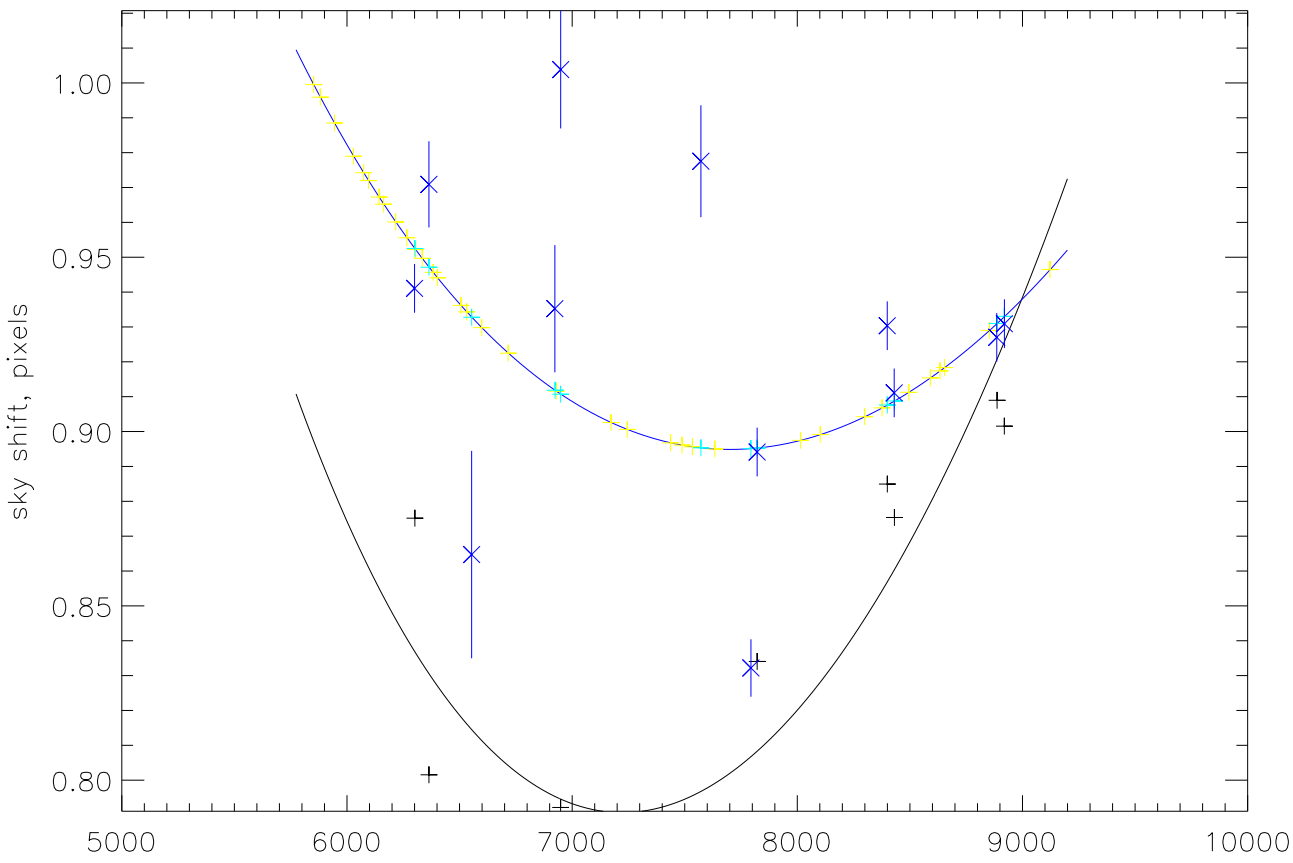

8399.1600
meas − arc
1.1
1.0
0.9
0.8
0.7
0.6
0
100
200
300
400

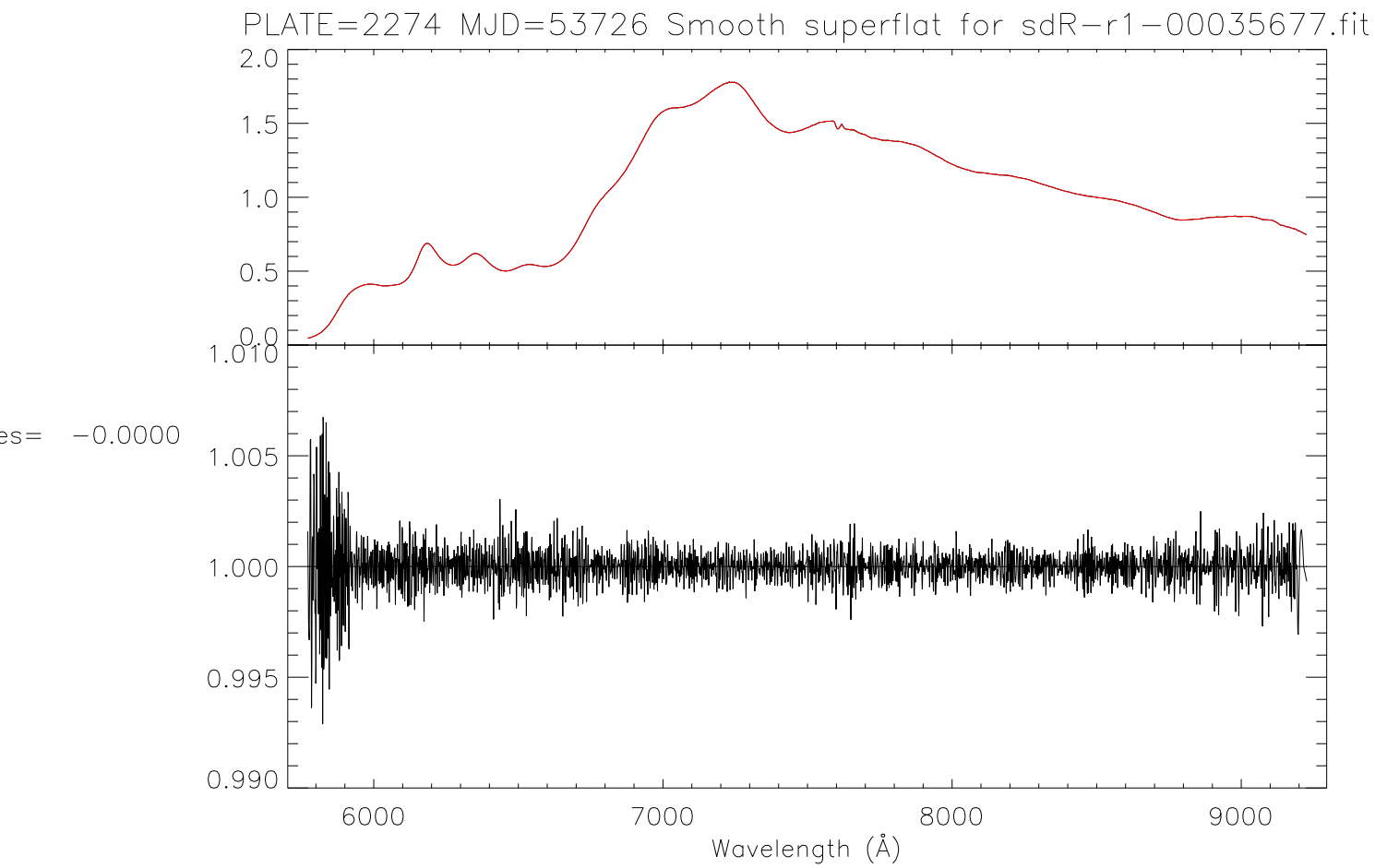

8430.1700
meas − arc
1.1
1.0
0.9
0.8
0.7
0.6
0
100
200
300
400


8885.8300
meas − arc
1.1
1.0
0.9
0.8
0.7
0.6
0
100
200
300
400

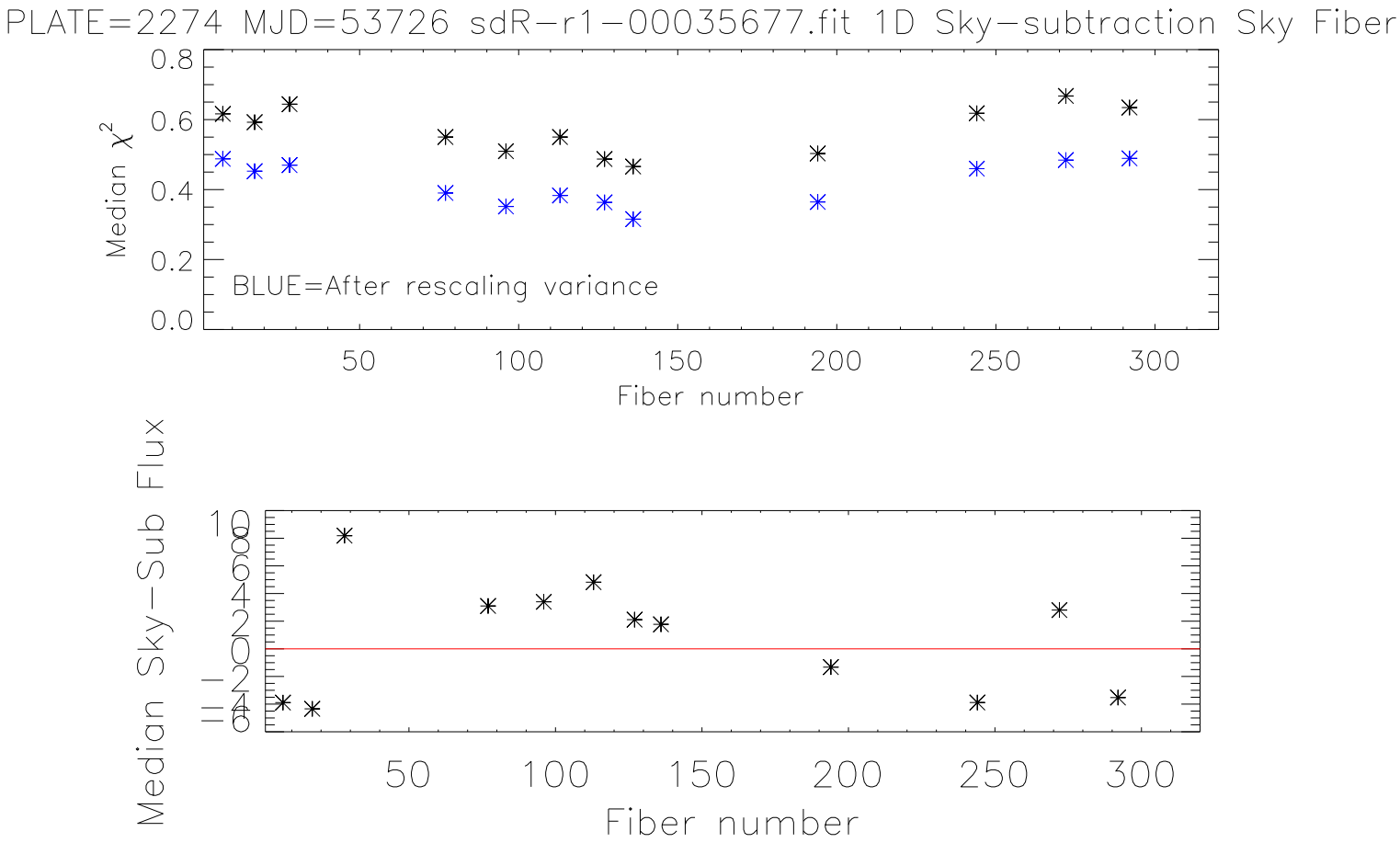

8919.6100
meas − arc
1.1
1.0
0.9
0.8
0.7
0.6
0
100
200
300
400

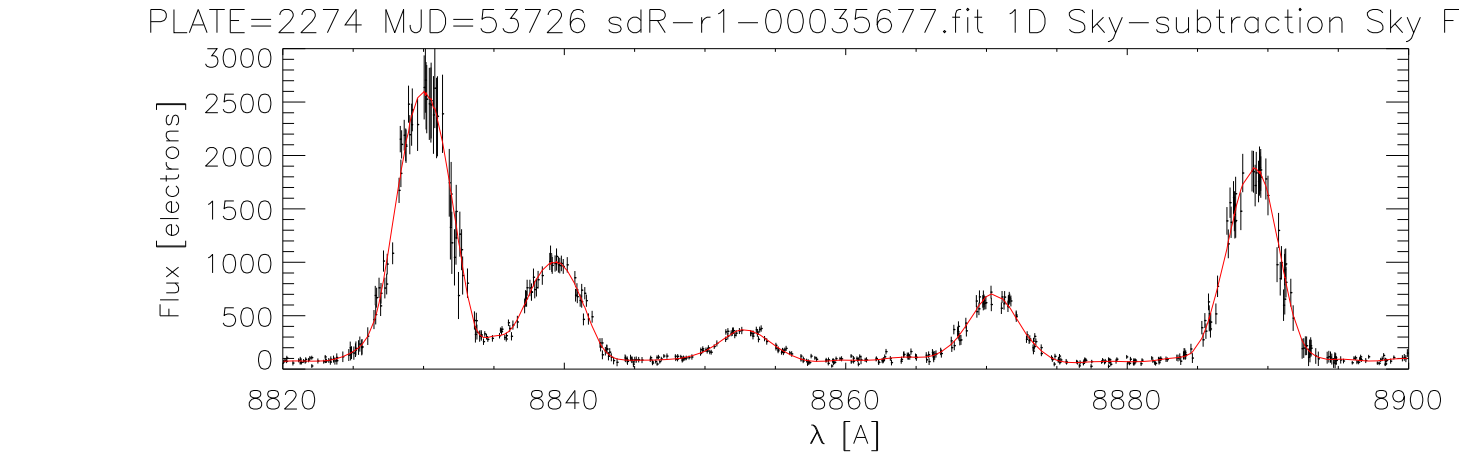

6300.3040
stdev 0.017
extra 0.94
6363.7760
stdev 0.038
extra 0.97
6553.6100
stdev 0.038
extra 0.86
6923.2100
stdev 0.051
extra 0.94
6949.0300
stdev 0.020
extra 1.06
7571.7500
stdev 0.047
extra 0.98
7794.1200
stdev 0.029
extra 0.83
7821.5100
stdev 0.025
extra 0.89
8399.1600
stdev 0.018
extra 0.93
8430.1700
stdev 0.025
extra 0.91
8885.8300
stdev 0.019
extra 0.93
8919.6100
stdev 0.024
extra 0.93
meas − pred, pix

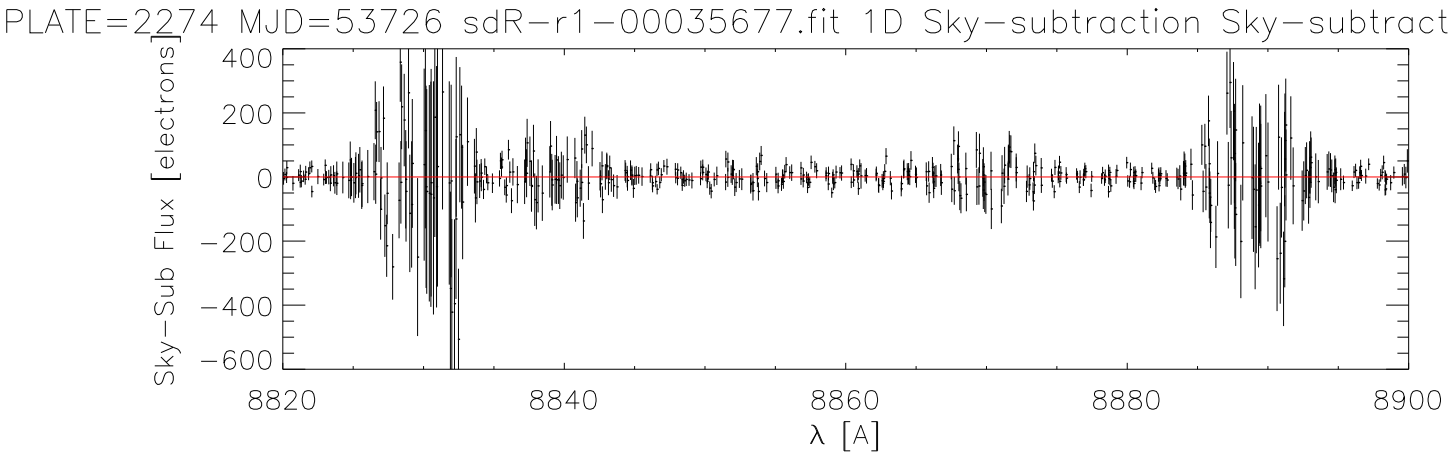

sky shift, pixels
1.00
0.95
0.90
0.85
0.80
5000
6000
7000
8000
9000
10000

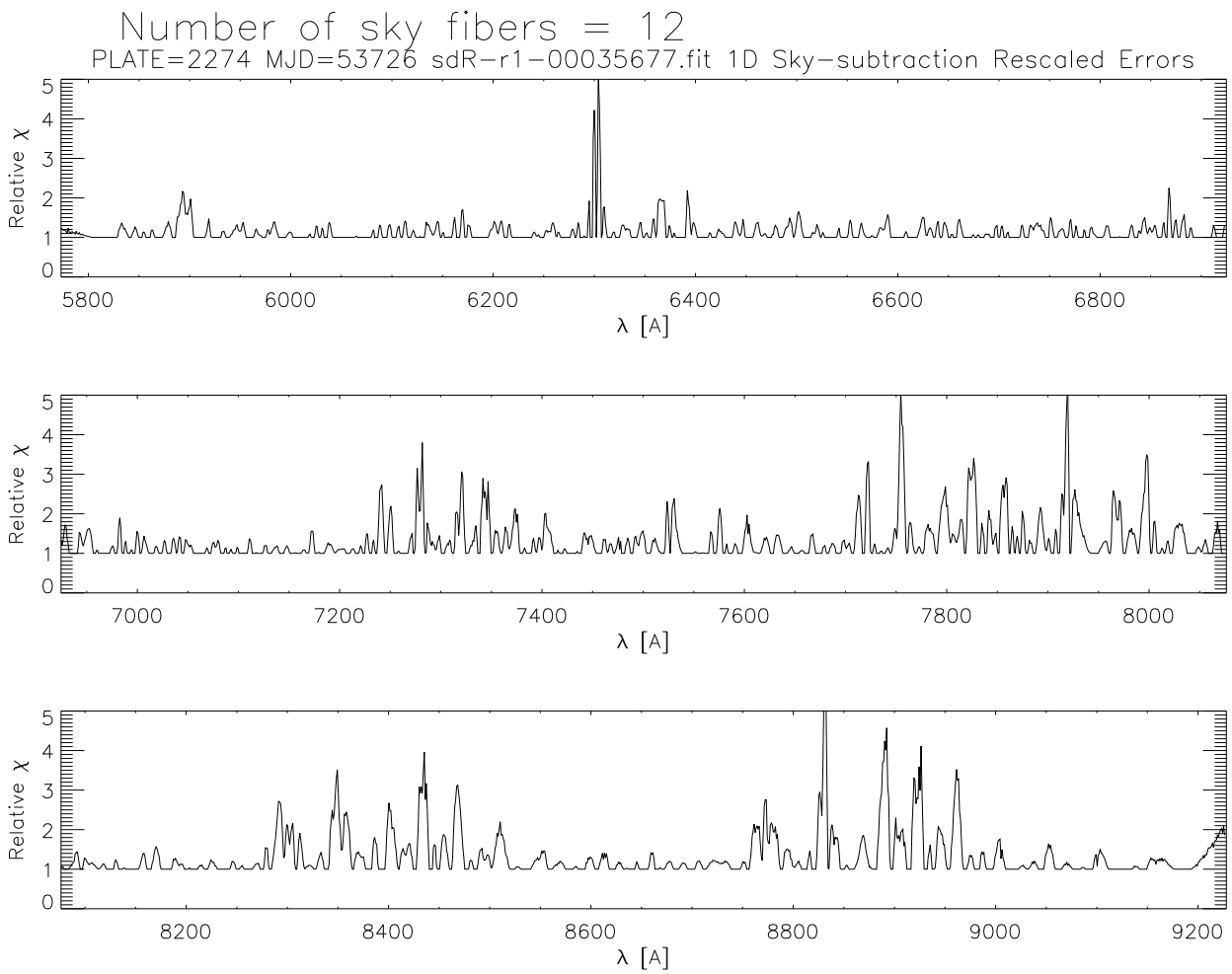

PLATE=2274 MJD=53726 Smooth superflat for sdR-r1-00035677.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

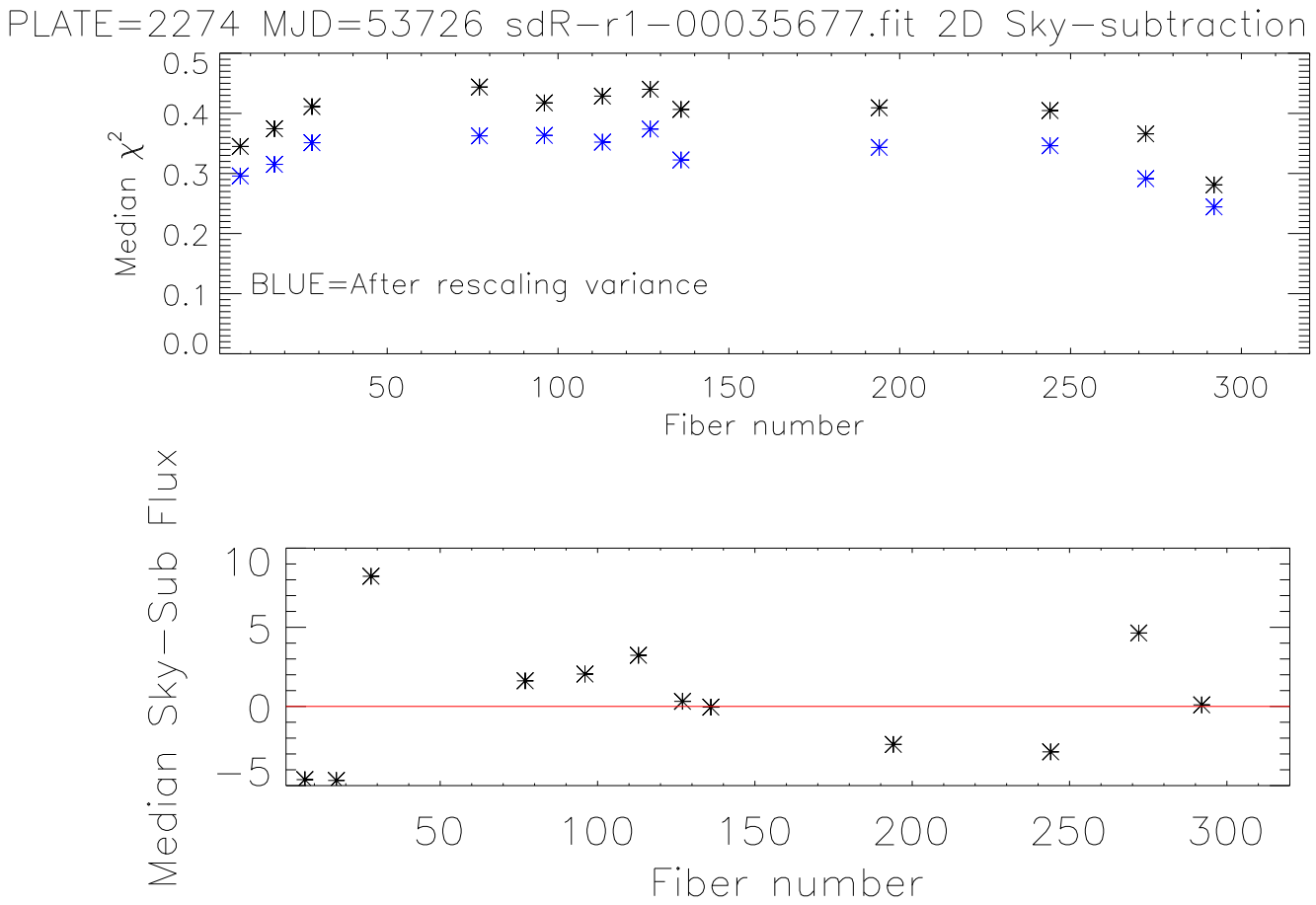
es= −0.0000

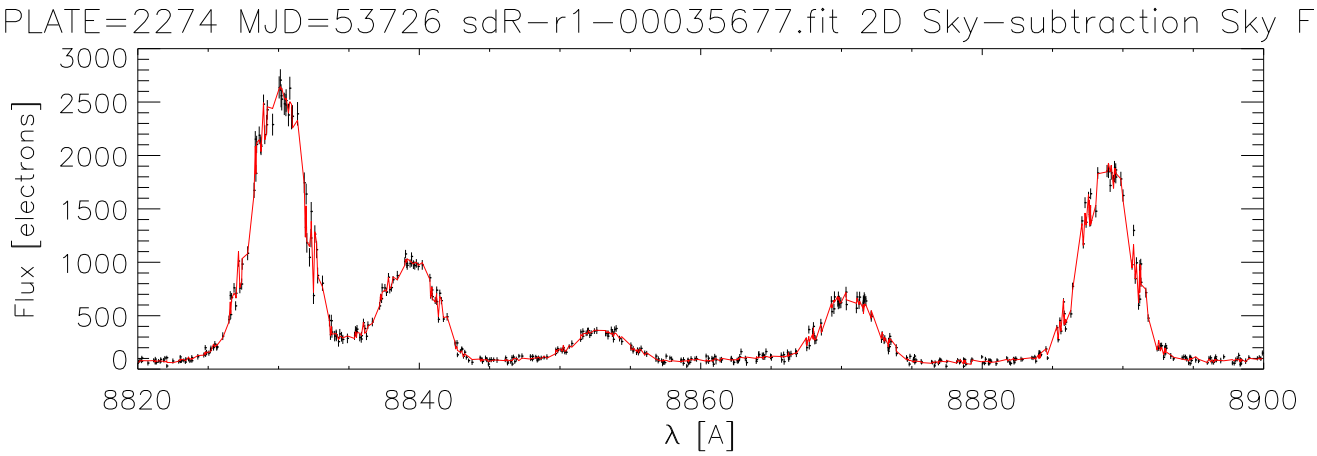

PLATE=2274 MJD=53726 sdR-r1-00035677.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
Fiber number

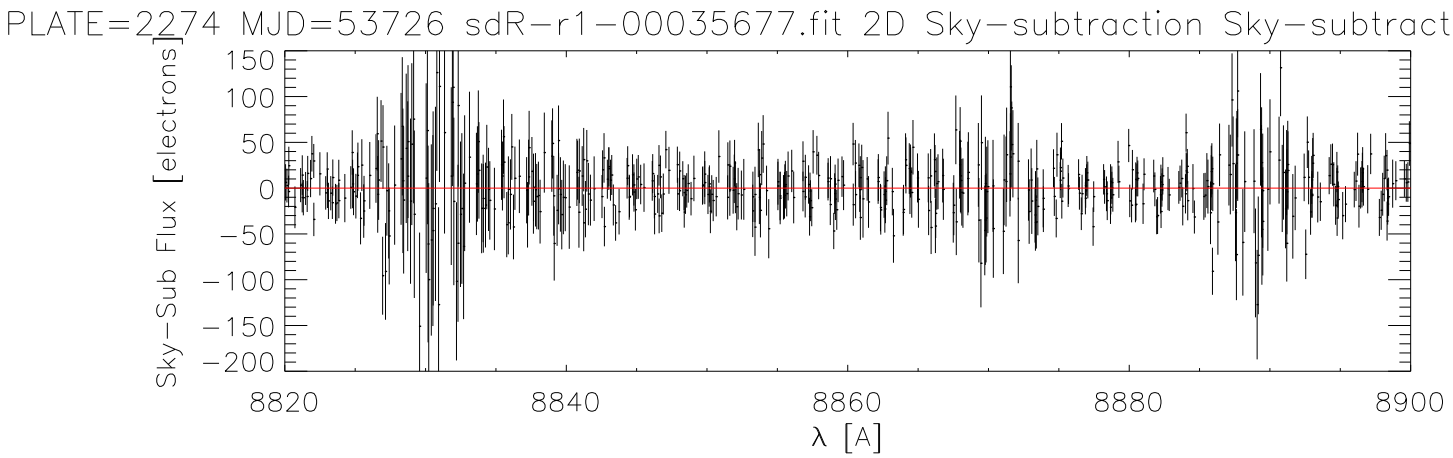

PLATE=2274 MJD=53726 sdR-r1-00035677.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

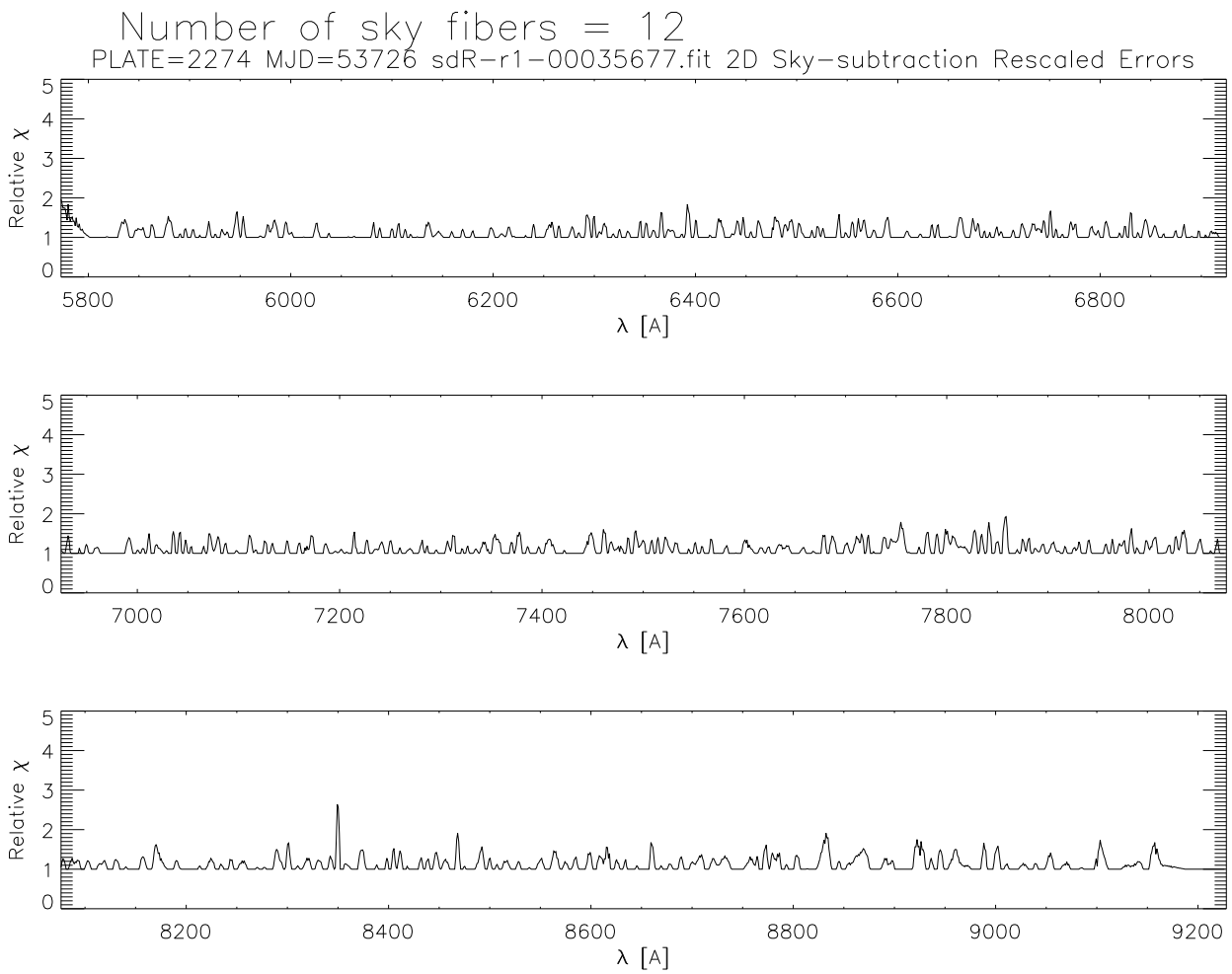

PLATE=2274 MJD=53726 sdR-r1-00035677.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
-600
8820
8840
8860
8880
8900
λ [A]

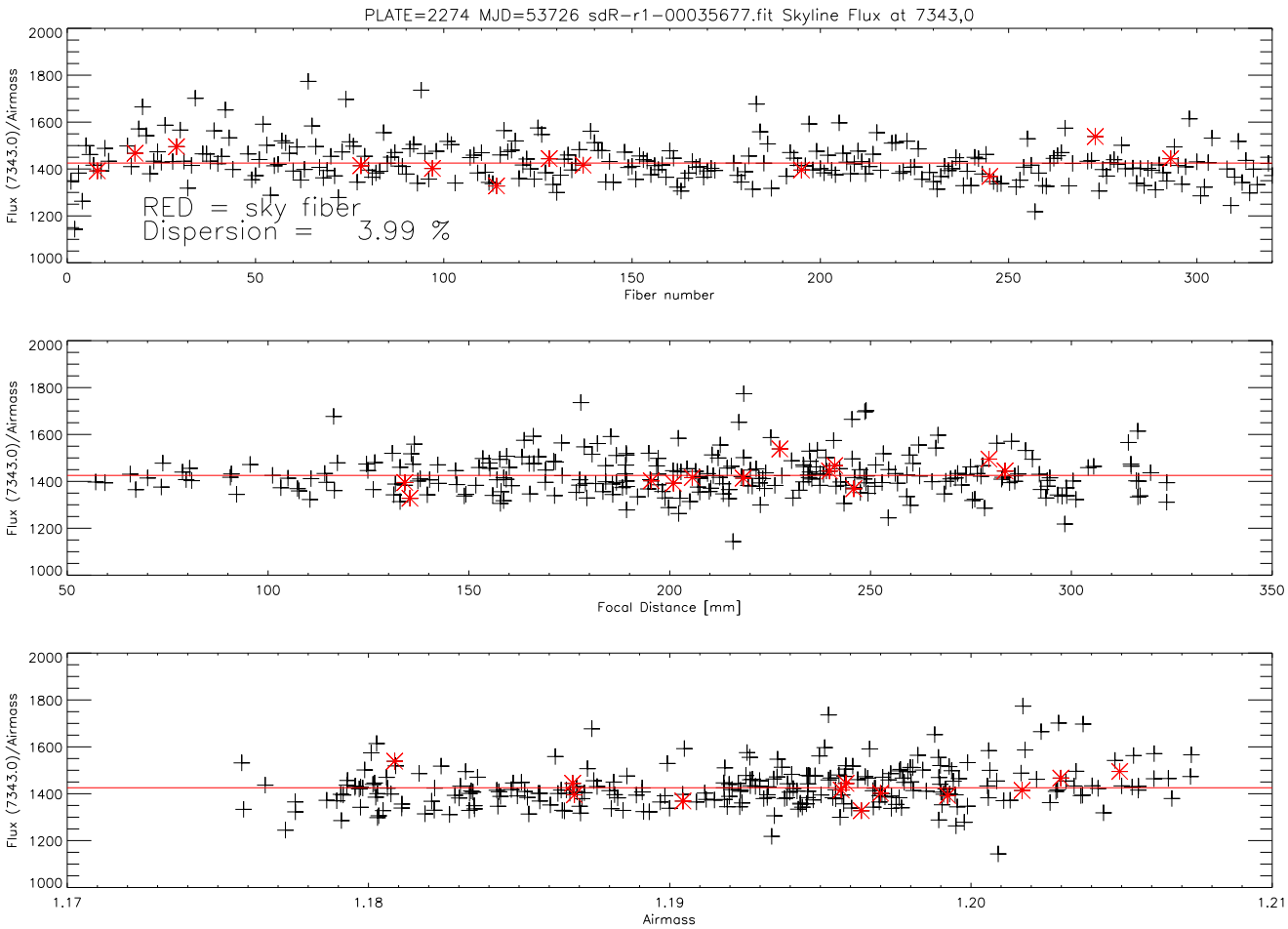

Number of sky fibers = 12
PLATE=2274 MJD=53726 sdR-r1-00035677.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

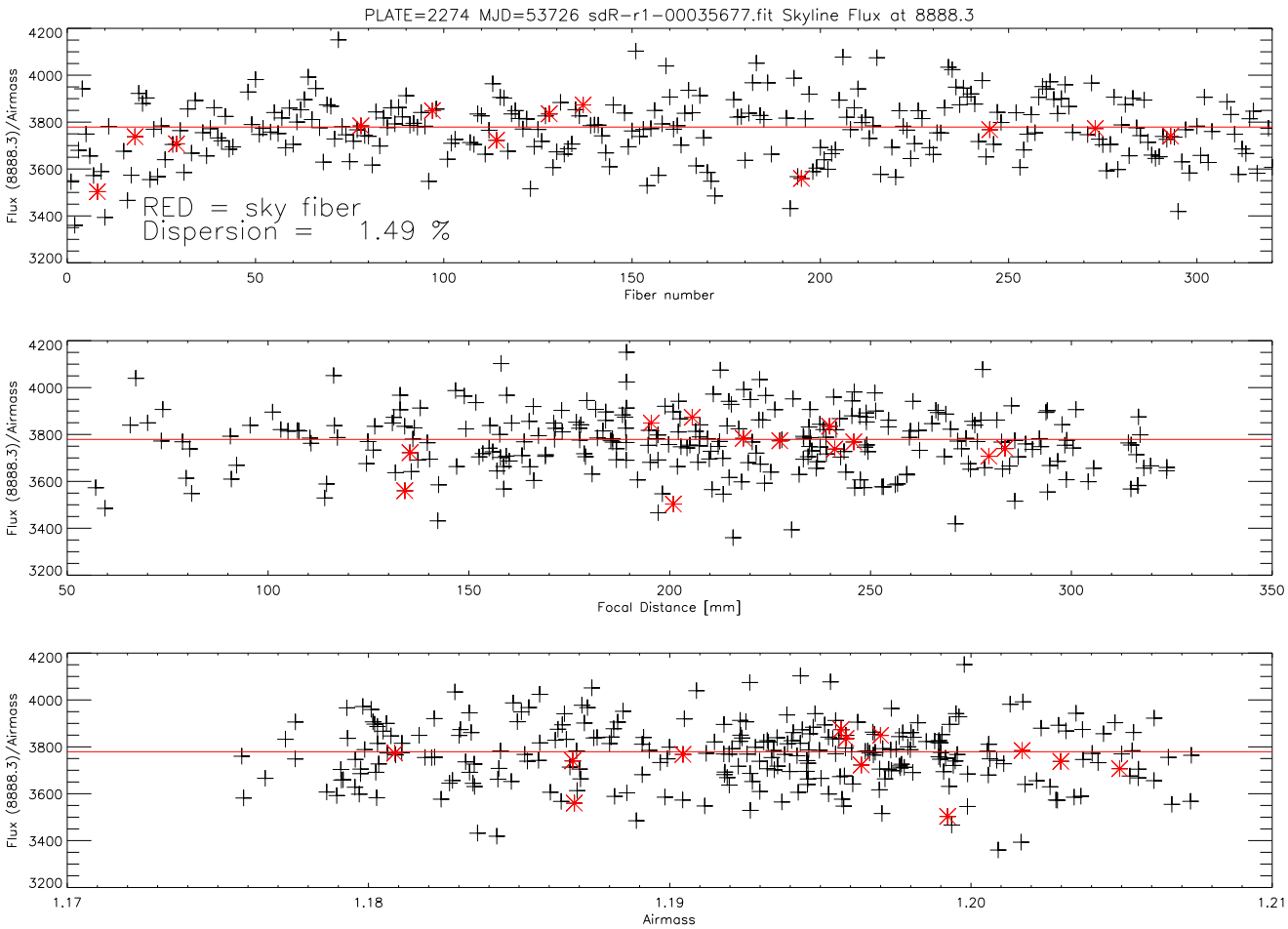

PLATE=2274 MJD=53726 sdR-r1-00035677.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

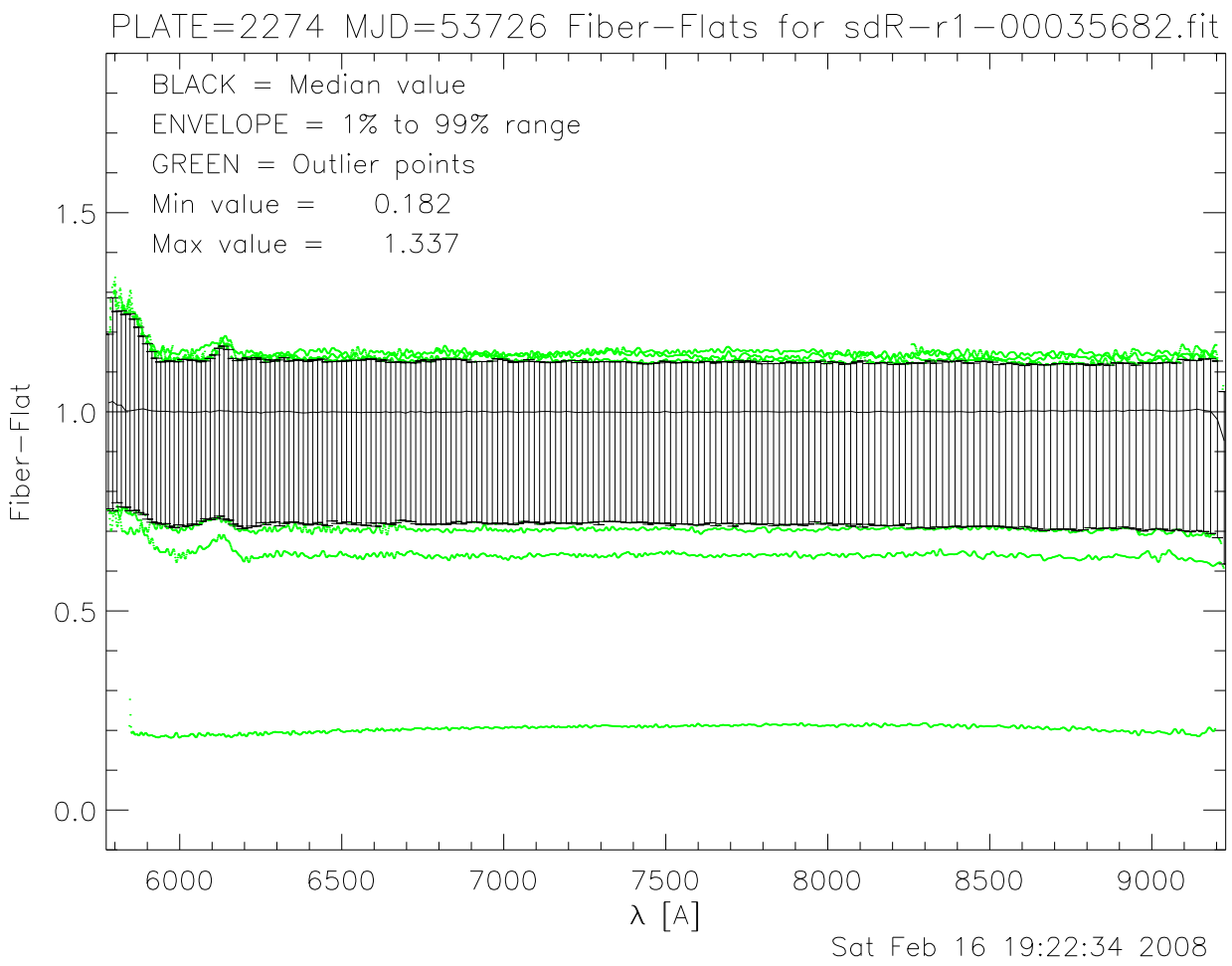

PLATE=2274 MJD=53726 sdR-r1-00035677.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

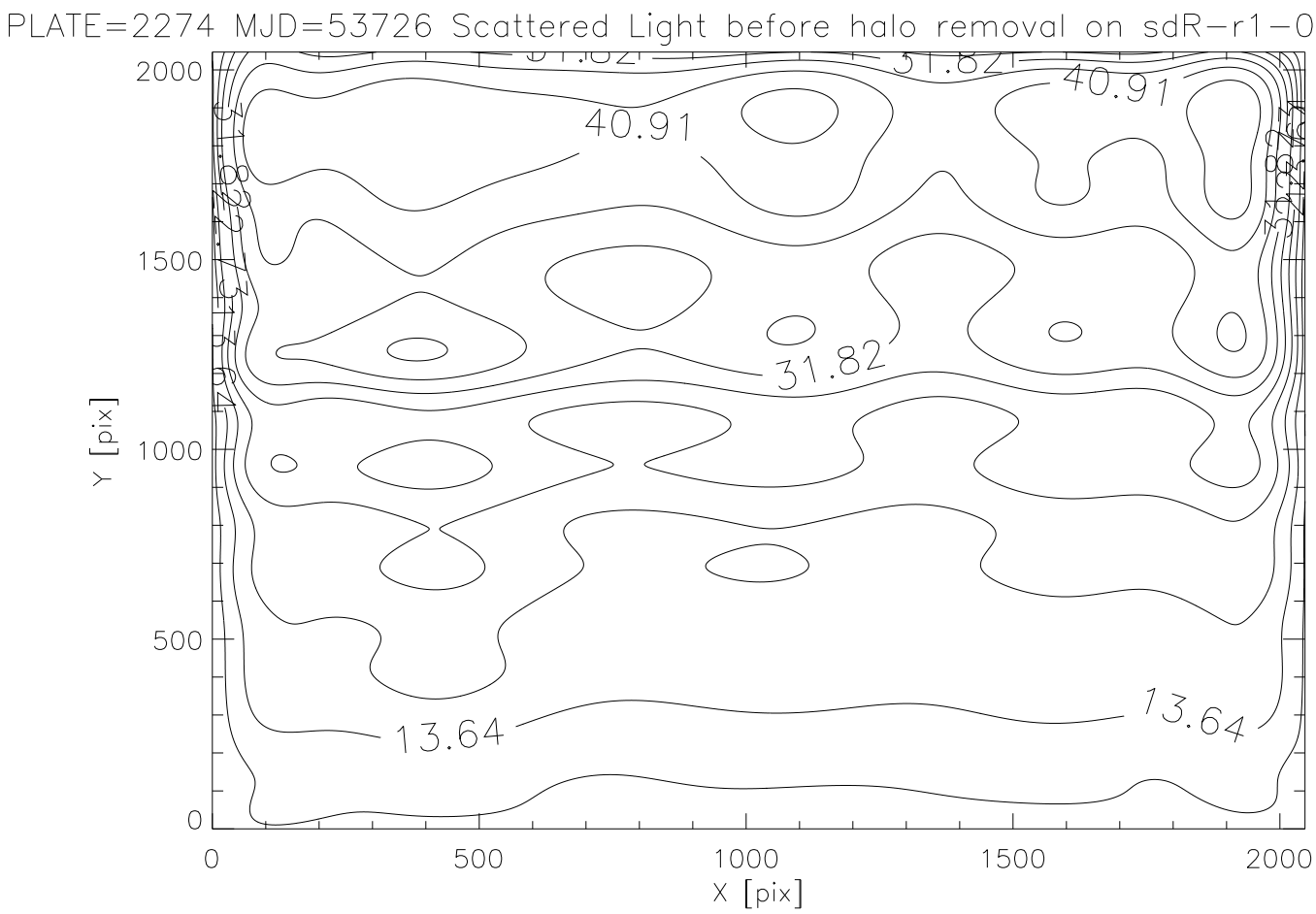

PLATE=2274 MJD=53726 sdR-r1-00035677.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
-200
8820
8840
8860
8880
8900
λ [A]

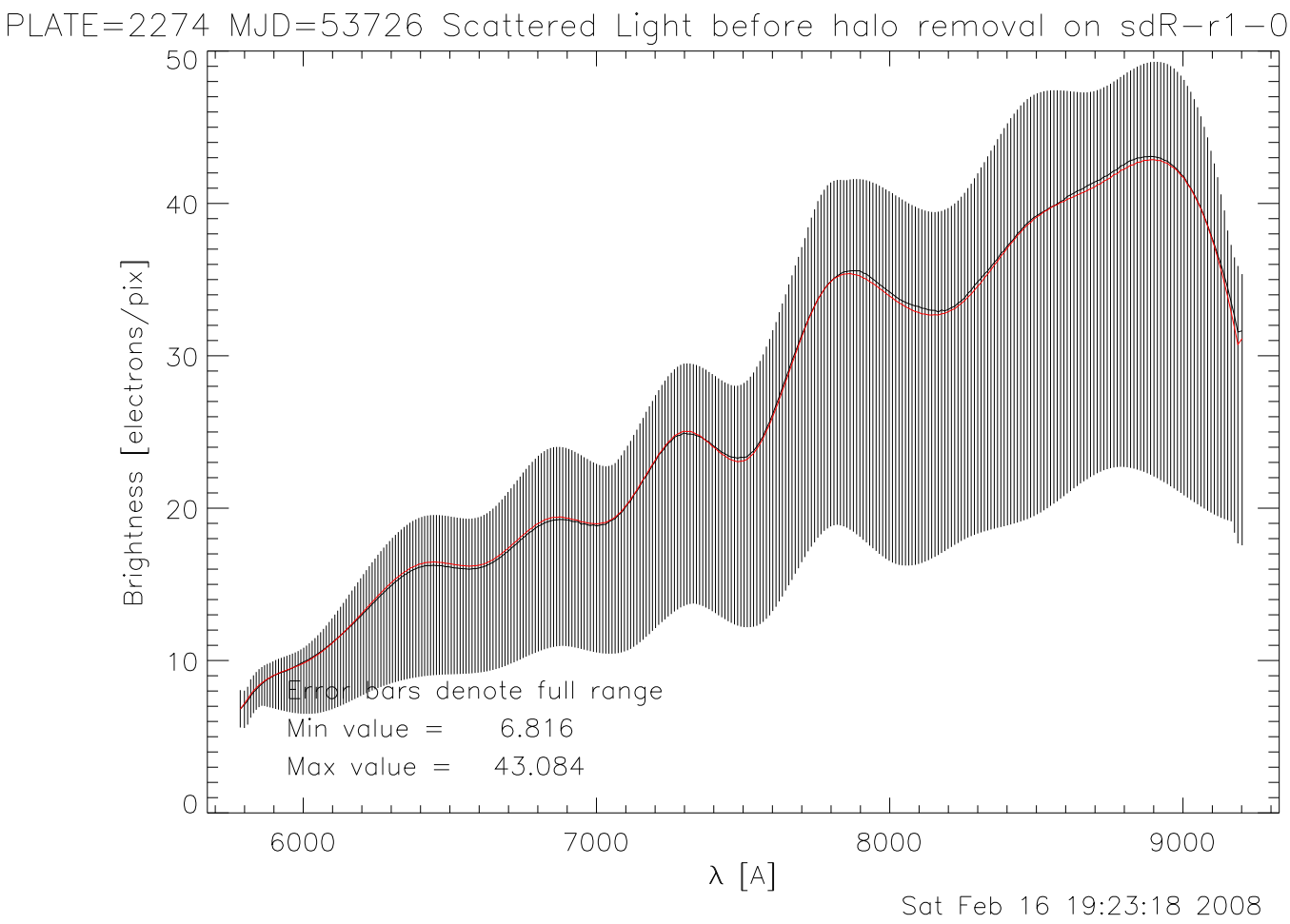

Number of sky fibers = 12
PLATE=2274 MJD=53726 sdR-r1-00035677.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

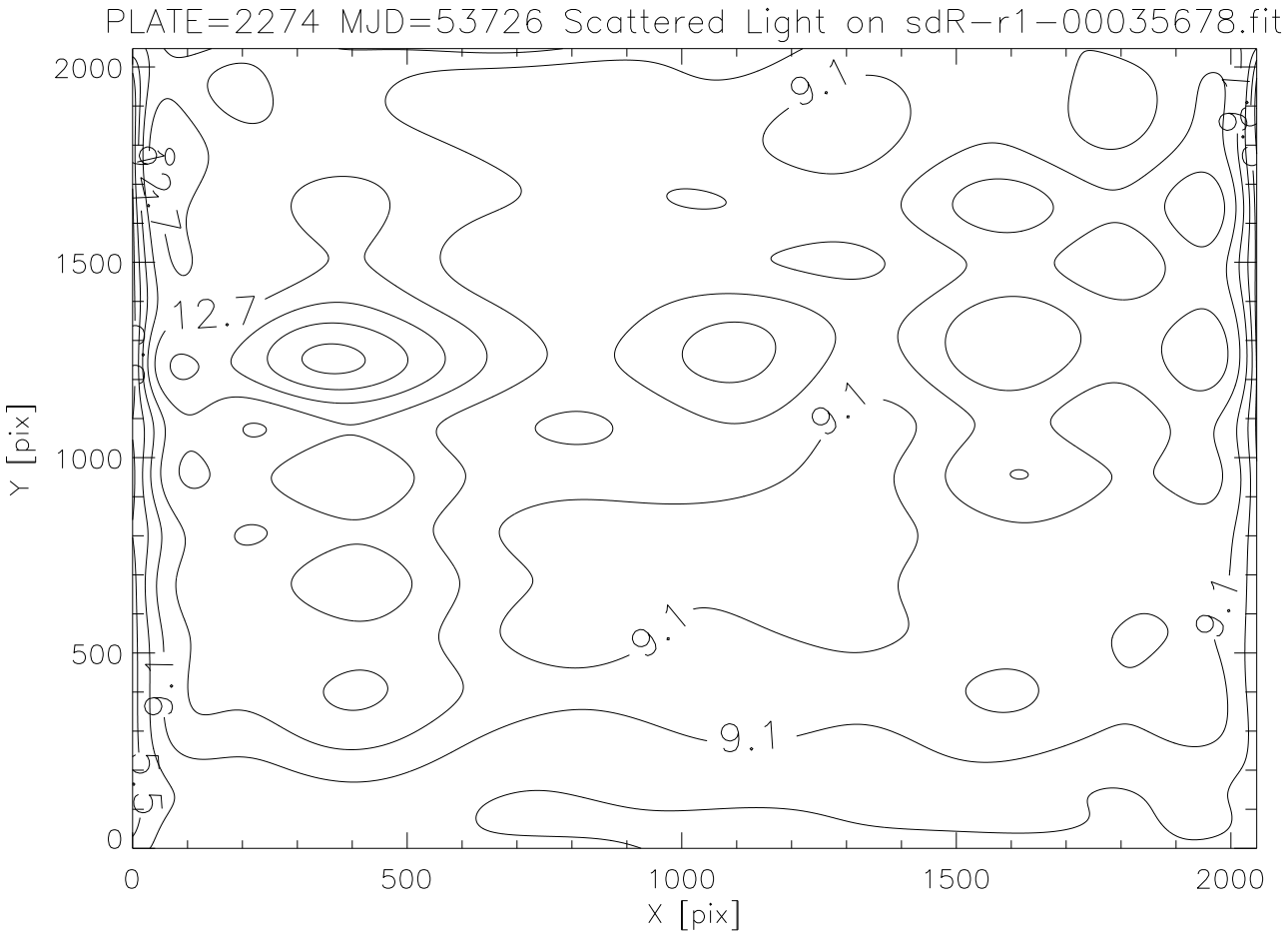

PLATE=2274 MJD=53726 sdR-r1-00035677.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.99 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

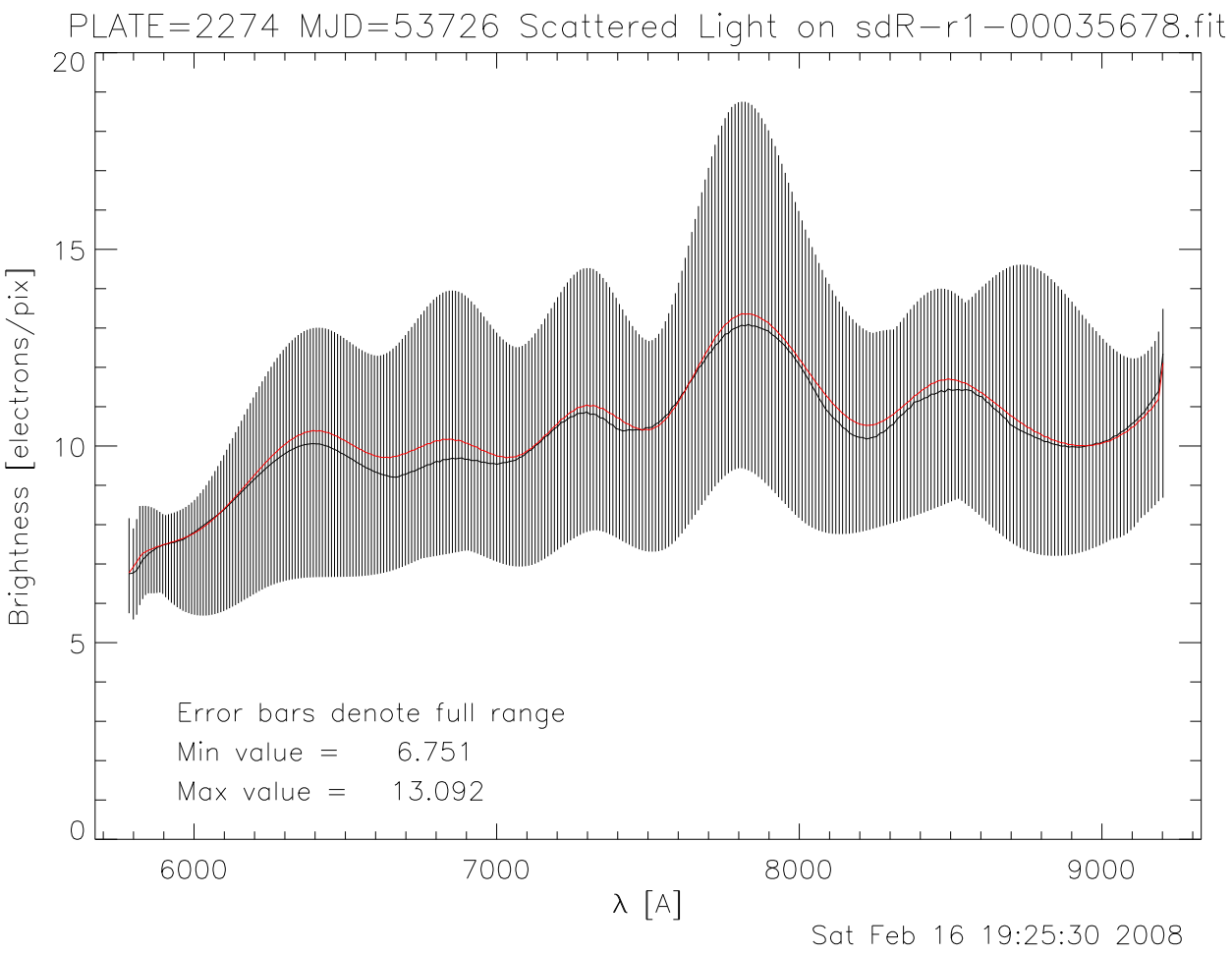

PLATE=2274 MJD=53726 sdR-r1-00035677.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.49 %
Fiber number
Focal Distance [mm]
Airmass

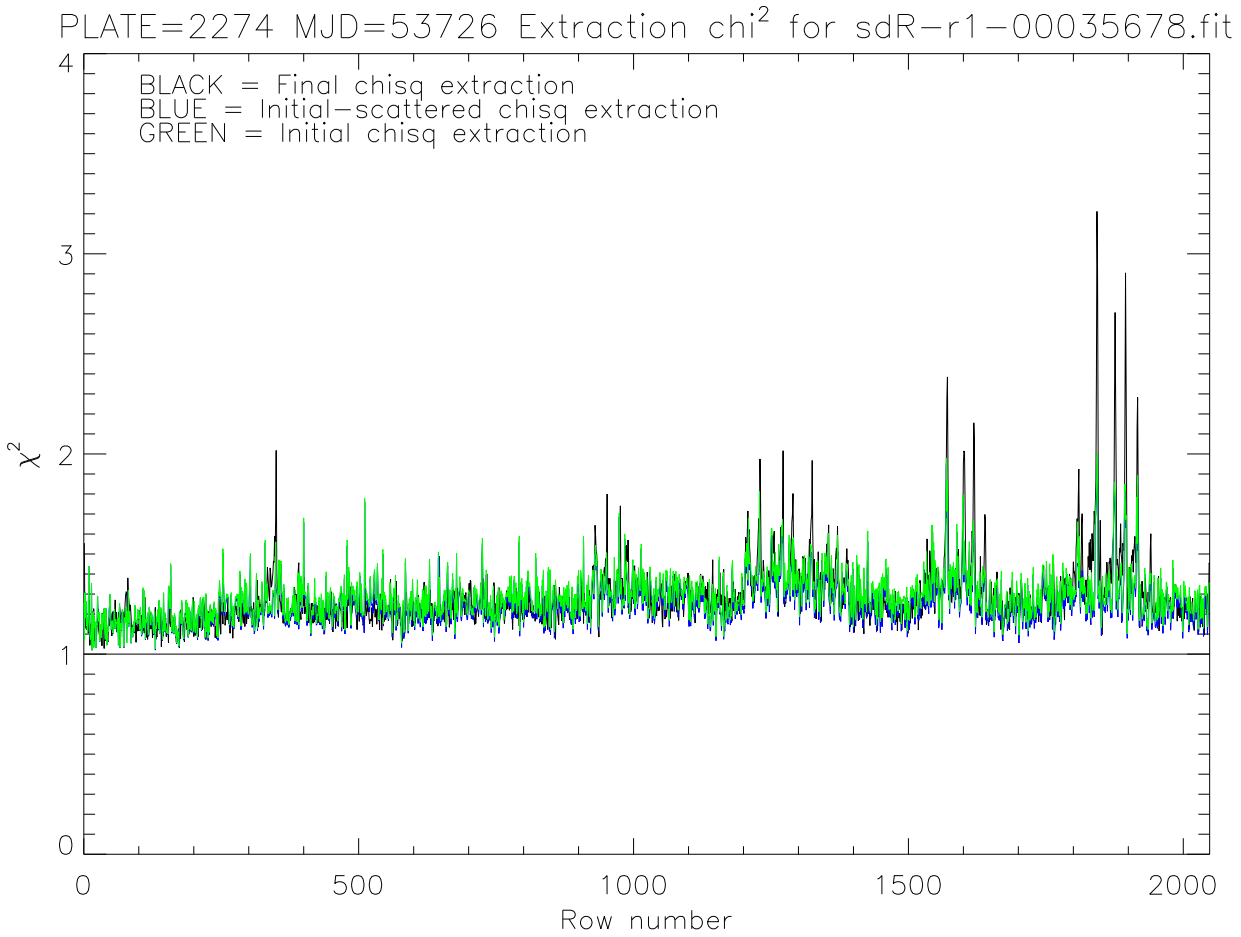

PLATE=2274 MJD=53726 Fiber−Flats for sdR−r1−00035682.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.182
Max value = 1.337
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sat Feb 16 19:22:34 2008

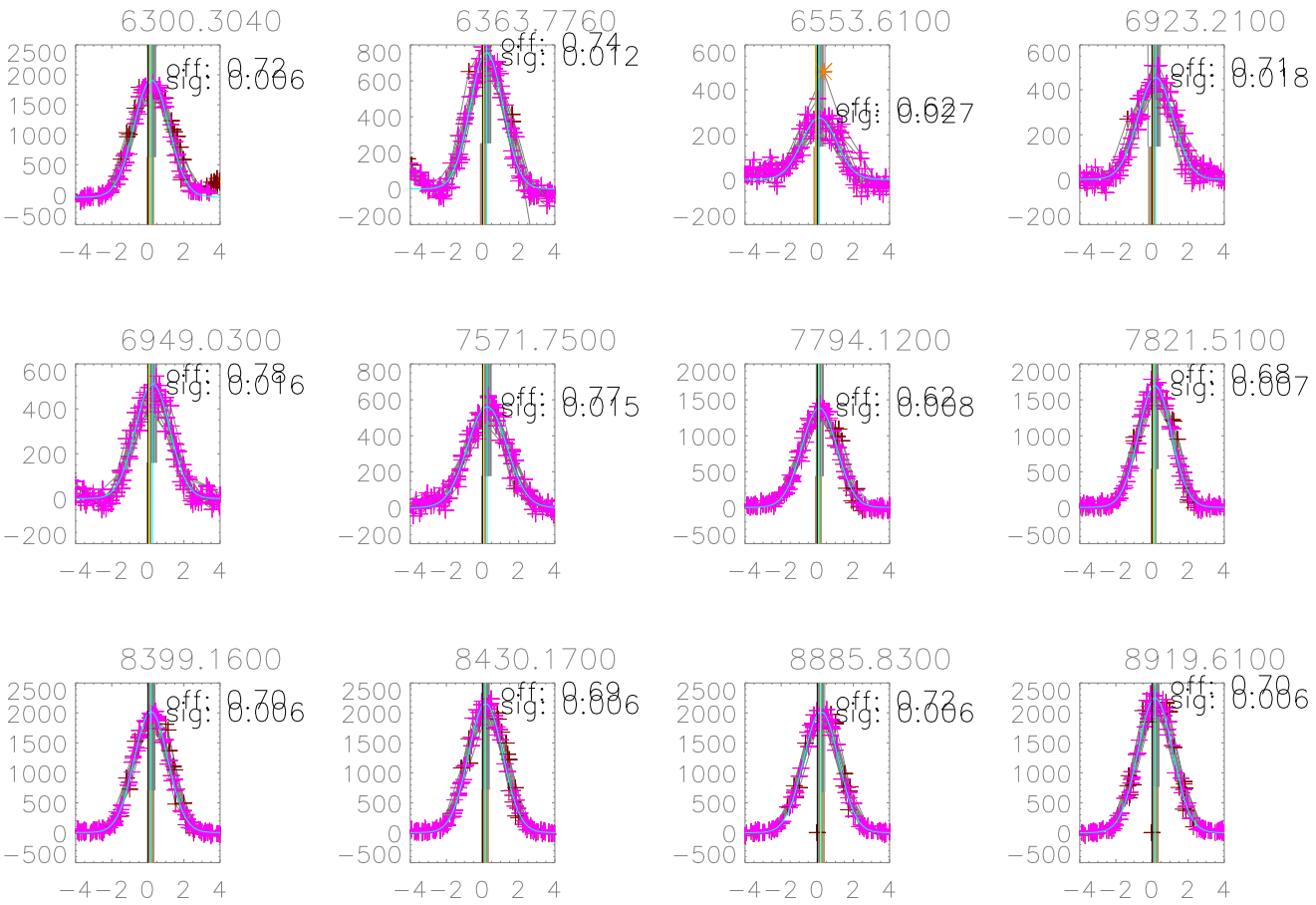

PLATE=2274 MJD=53726 Scattered Light before halo removal on sdR-r1-00035678.fi
40.91
31.82
13.64
Y [pix]
X [pix]
0
500
1000
1500
2000

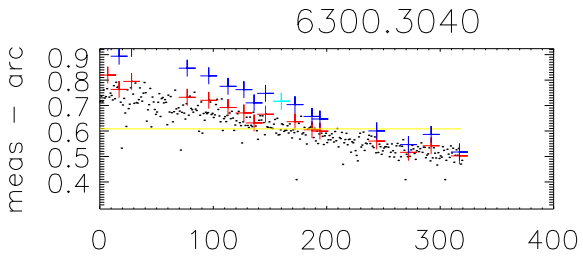

PLATE=2274 MJD=53726 Scattered Light before halo removal on sdR-r1-00035678.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.816
Max value = 43.084
Sat Feb 16 19:23:18 2008

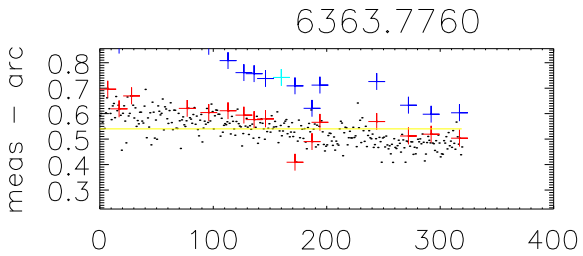

PLATE=2274 MJD=53726 Scattered Light on sdR-r1-00035678.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
9.1
12.7
9.1
9.1
9.1
9.1
12.7
9.1
5.5

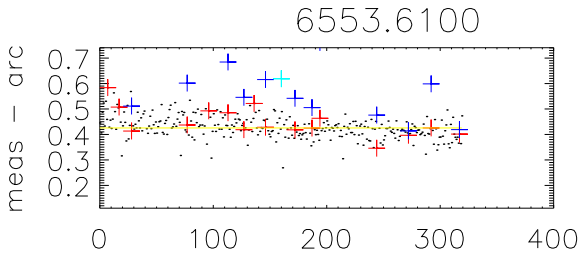

PLATE=2274 MJD=53726 Scattered Light on sdR-r1-00035678.fit
Brightness [electrons/pix]
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 6.751
Max value = 13.092
Sat Feb 16 19:25:30 2008

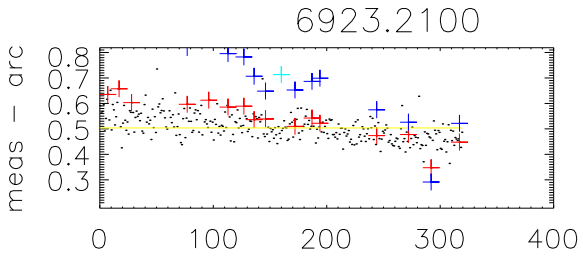

PLATE=2274 MJD=53726 Extraction chi^2 for sdR−r1−00035678.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

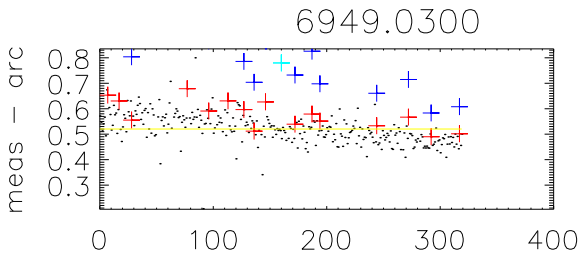

6300.3040
off: 0.72
sig: 0.006
6363.7760
off: 0.74
sig: 0.012
6553.6100
off: 0.62
sig: 0.027
6923.2100
off: 0.71
sig: 0.018
6949.0300
off: 0.78
sig: 0.016
7571.7500
off: 0.77
sig: 0.015
7794.1200
off: 0.62
sig: 0.008
7821.5100
off: 0.68
sig: 0.007
8399.1600
off: 0.70
sig: 0.006
8430.1700
off: 0.69
sig: 0.006
8885.8300
off: 0.72
sig: 0.006
8919.6100
off: 0.70
sig: 0.006

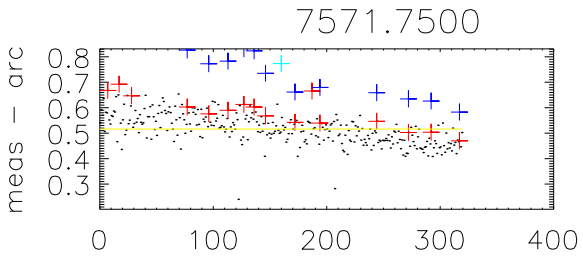

6300.3040
meas − arc
0.9
0.8
0.7
0.6
0.5
0.4
0
100
200
300
400

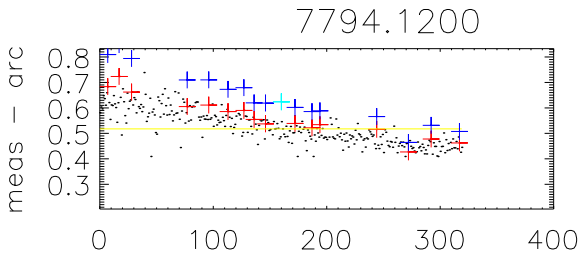

6363.7760
meas − arc
0.8
0.7
0.6
0.5
0.4
0.3
0
100
200
300
400

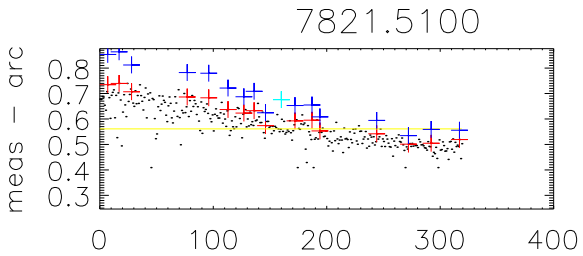

6553.6100
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

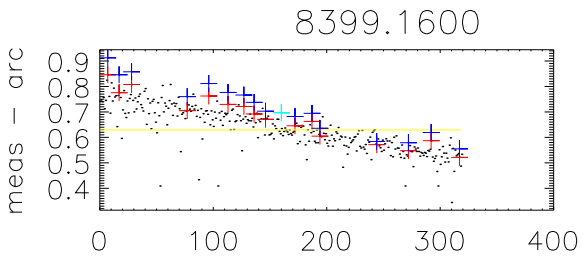

6923.2100
meas − arc
0.8
0.7
0.6
0.5
0.4
0.3
0
100
200
300
400

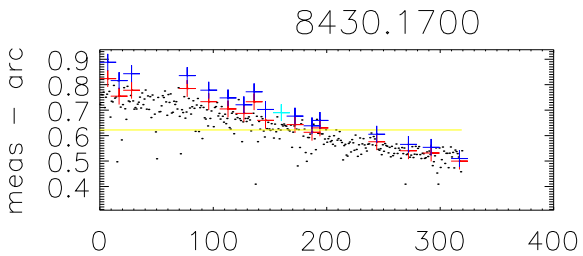

6949.0300
meas − arc
0.8
0.7
0.6
0.5
0.4
0.3
0
100
200
300
400

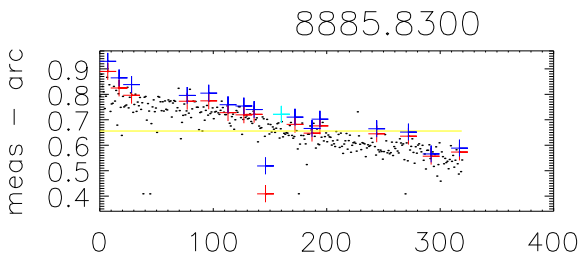

7571.7500
meas − arc
0.8
0.7
0.6
0.5
0.4
0.3
0
100
200
300
400

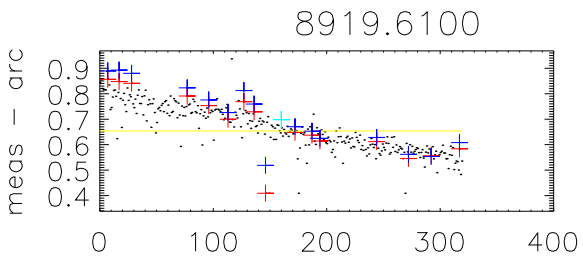

7794.1200
meas − arc
0.8
0.7
0.6
0.5
0.4
0.3
0
100
200
300
400

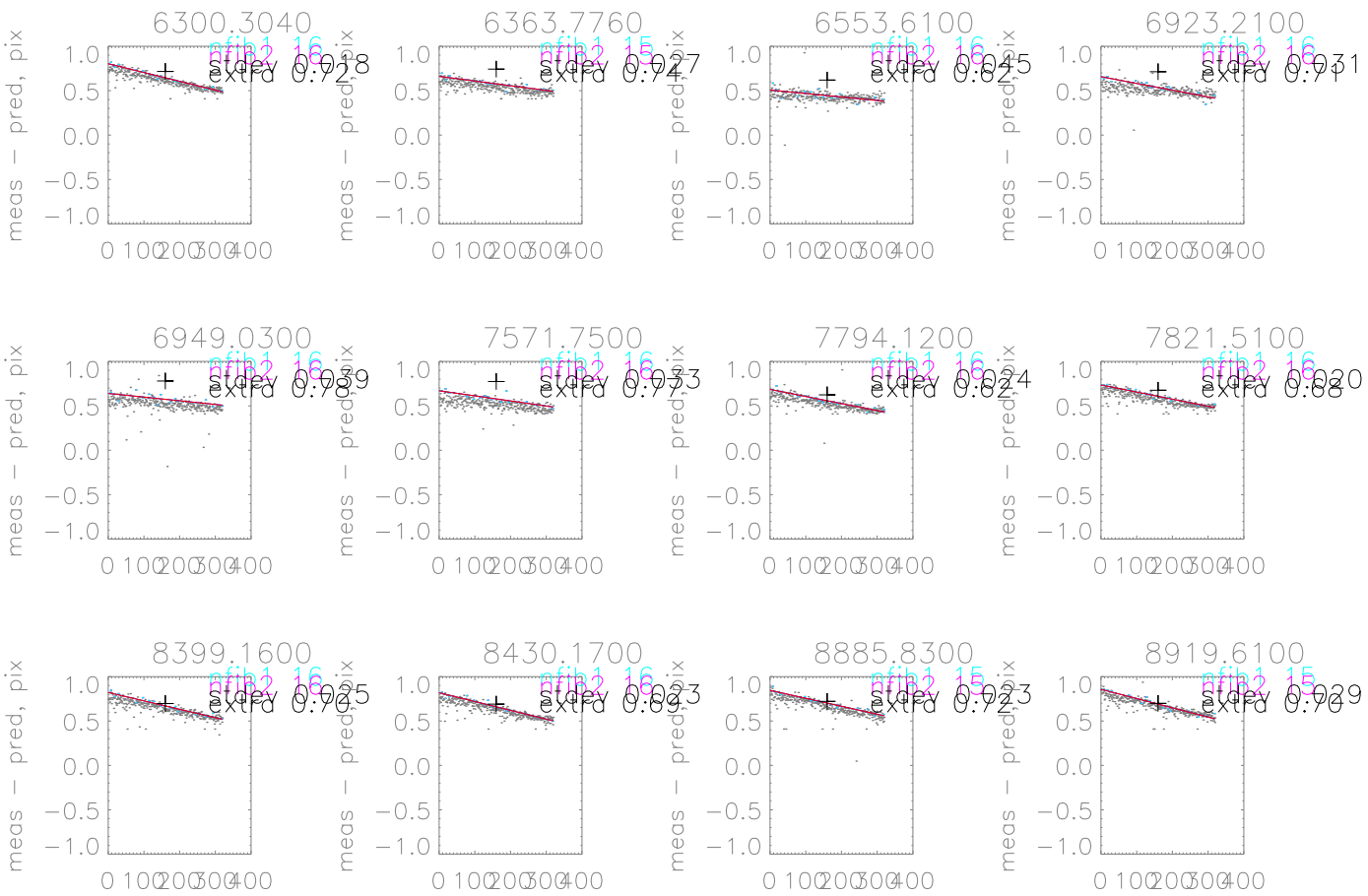

7821.5100
meas − arc
0.8
0.7
0.6
0.5
0.4
0.3
0
100
200
300
400

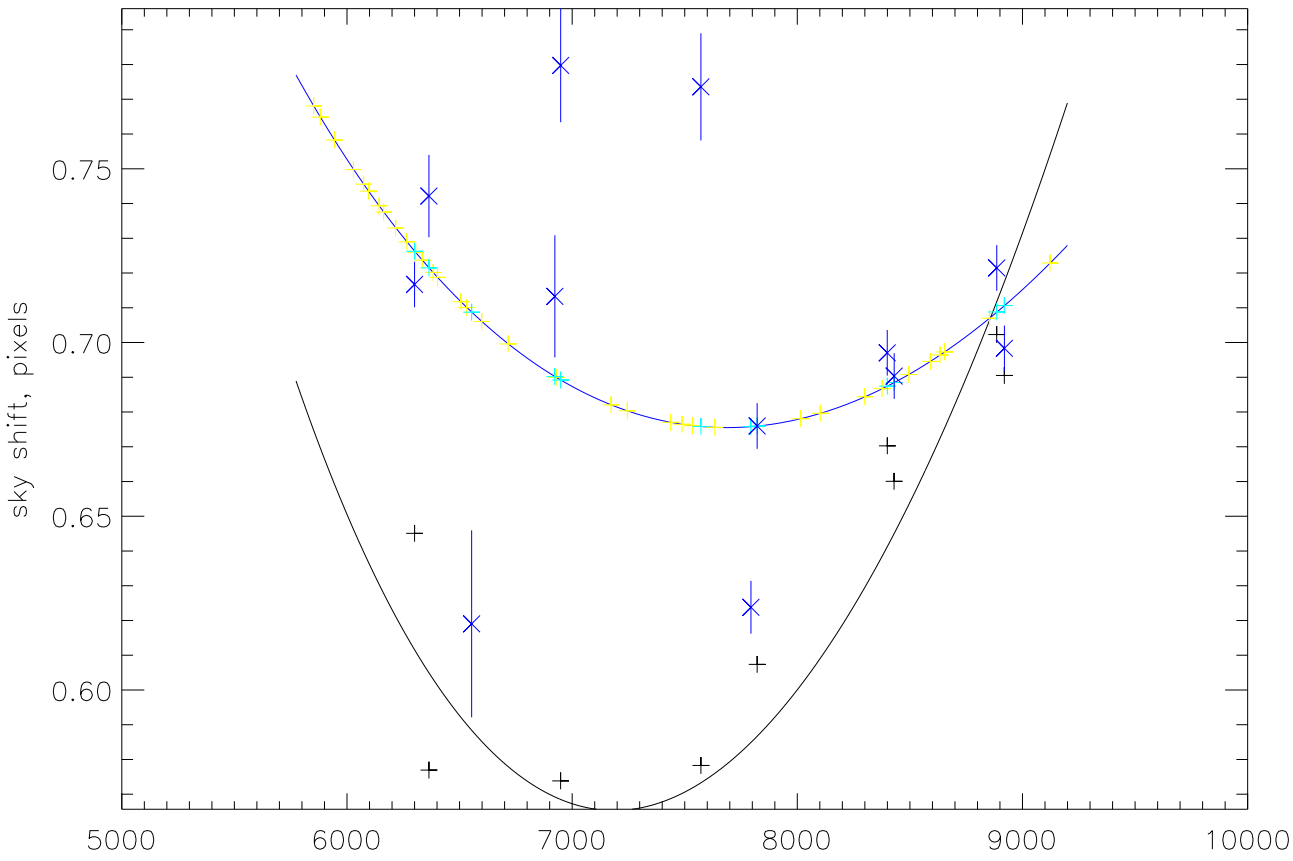

8399.1600
meas − arc
0.9
0.8
0.7
0.6
0.5
0.4
0
100
200
300
400


8430.1700
meas − arc
0.9
0.8
0.7
0.6
0.5
0.4
0
100
200
300
400

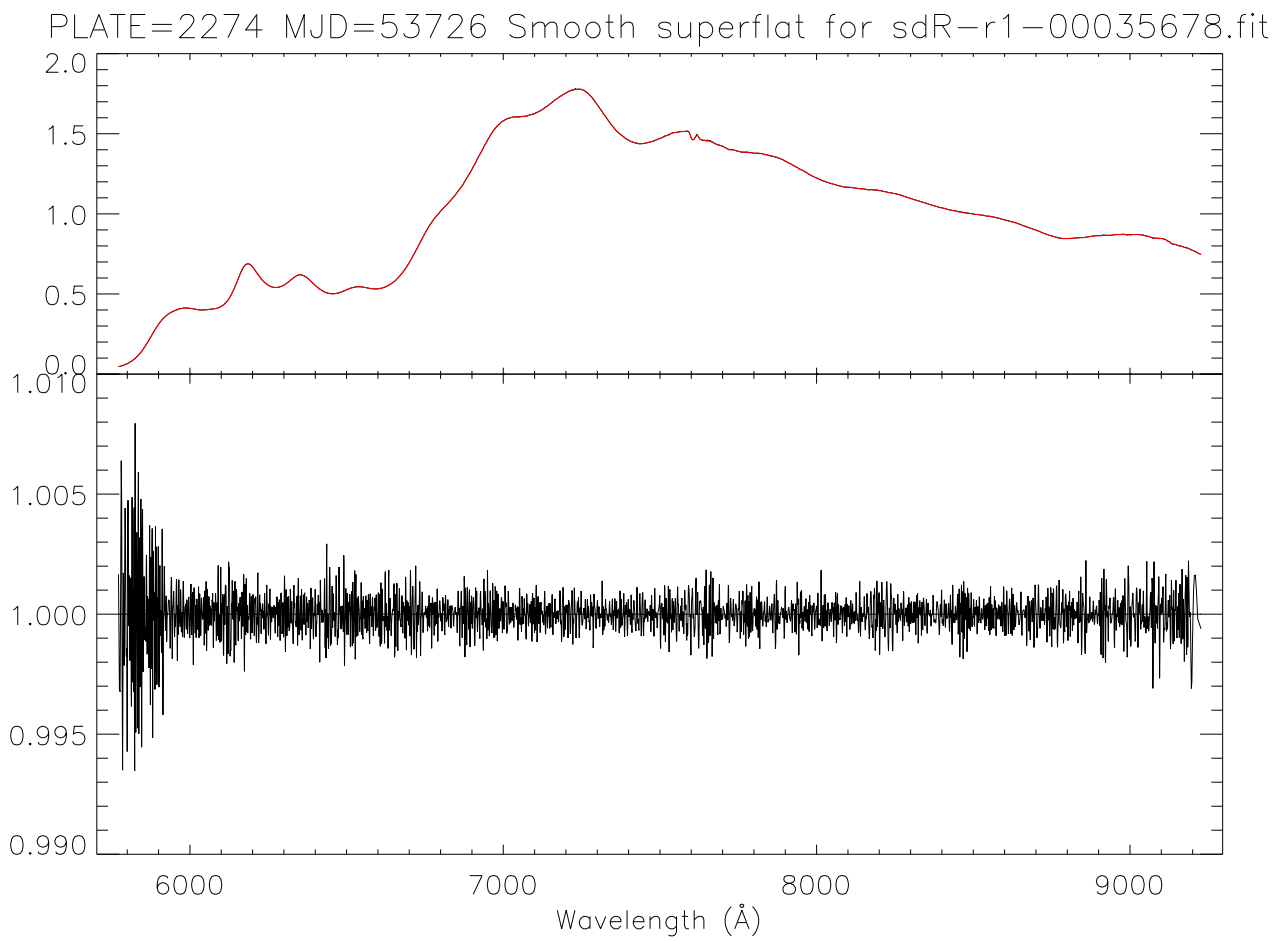

8885.8300
meas − arc
0.9
0.8
0.7
0.6
0.5
0.4
0
100
200
300
400

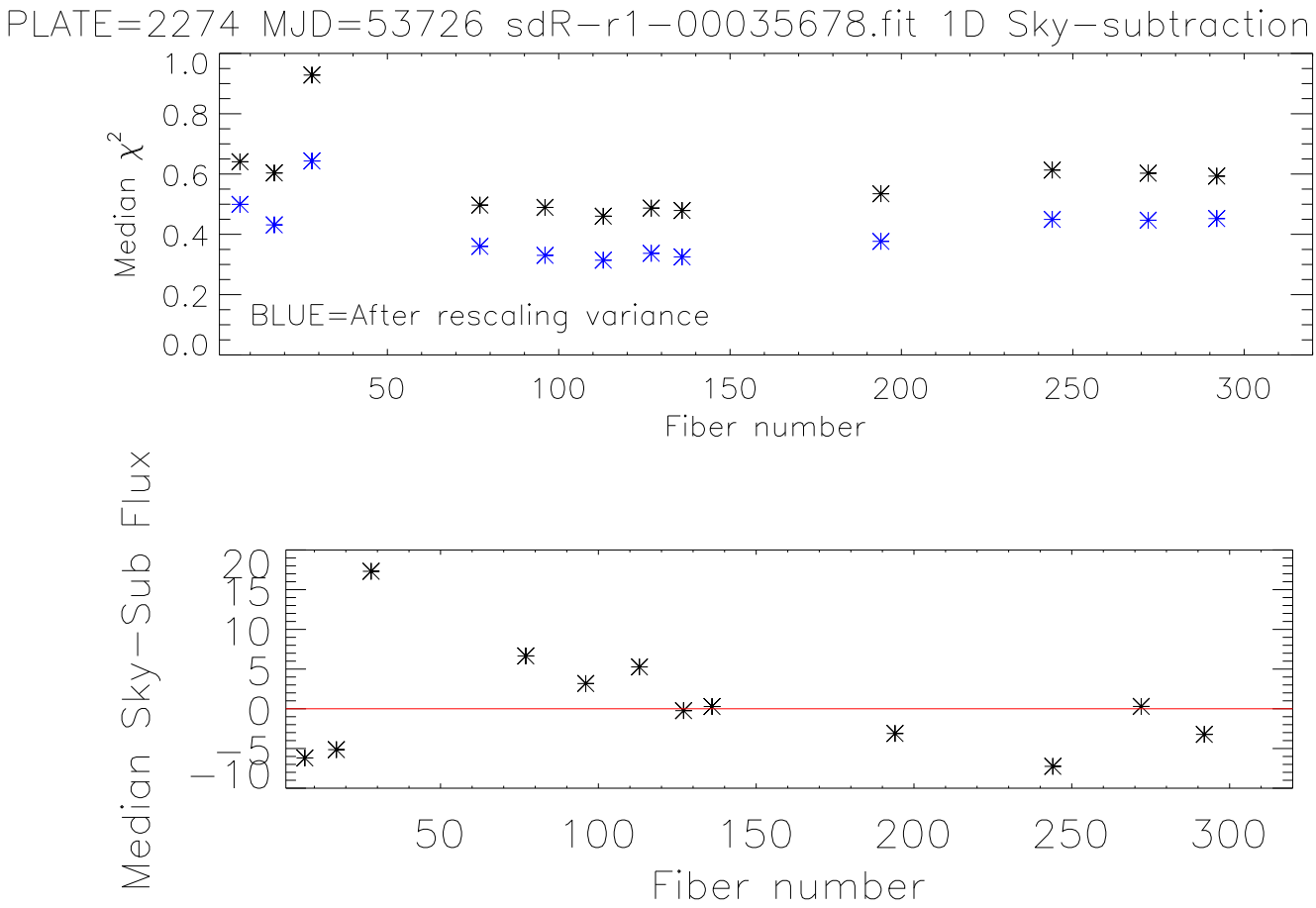

8919.6100
meas − arc
0.9
0.8
0.7
0.6
0.5
0.4
0
100
200
300
400

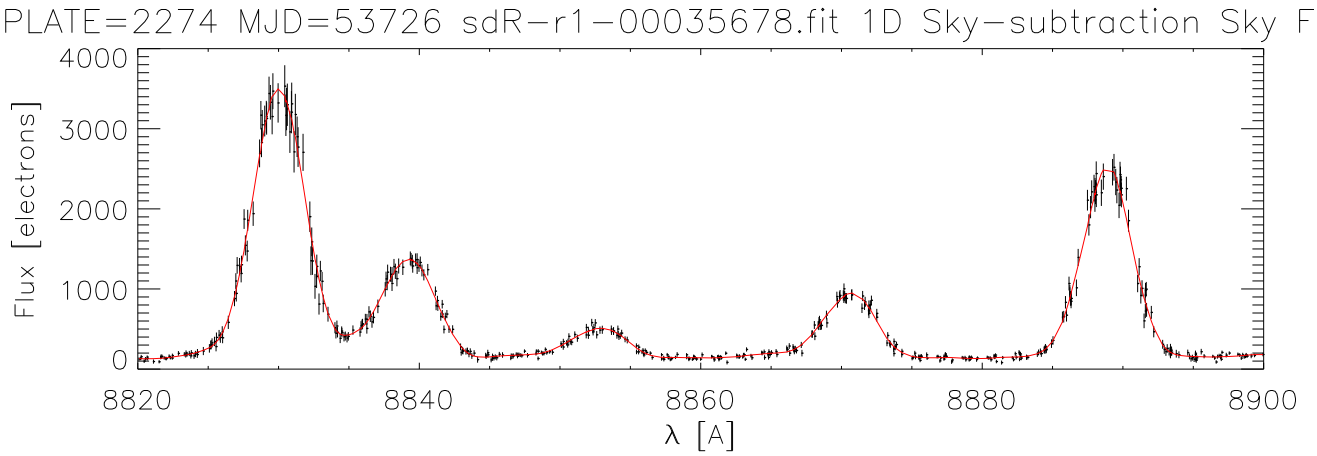

6300.3040
stdev 0.928
extra 0.72
6363.7760
stdev 0.927
extra 0.74
6553.6100
stdev 0.945
extra 0.82
6923.2100
stdev 0.931
extra 0.71
6949.0300
stdev 0.939
extra 0.78
7571.7500
stdev 0.933
extra 0.77
7794.1200
stdev 0.924
extra 0.82
7821.5100
stdev 0.920
extra 0.68
8399.1600
stdev 0.925
extra 0.76
8430.1700
stdev 0.923
extra 0.69
8885.8300
stdev 0.923
extra 0.72
8919.6100
stdev 0.929
extra 0.76
meas − pred, pix

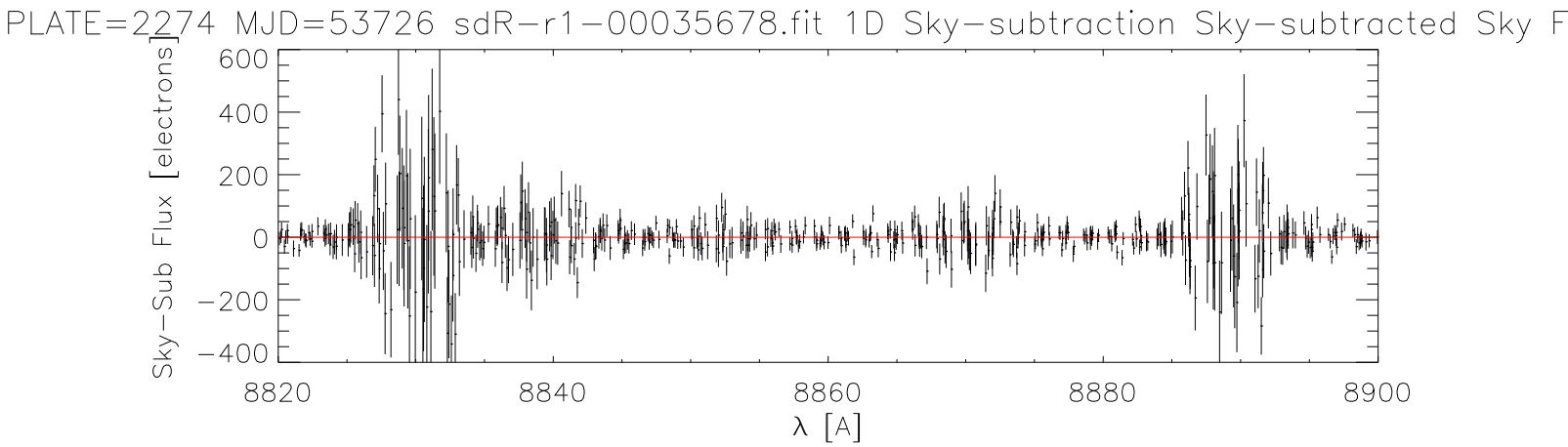

sky shift, pixels
0.75
0.70
0.65
0.60
5000
6000
7000
8000
9000
10000

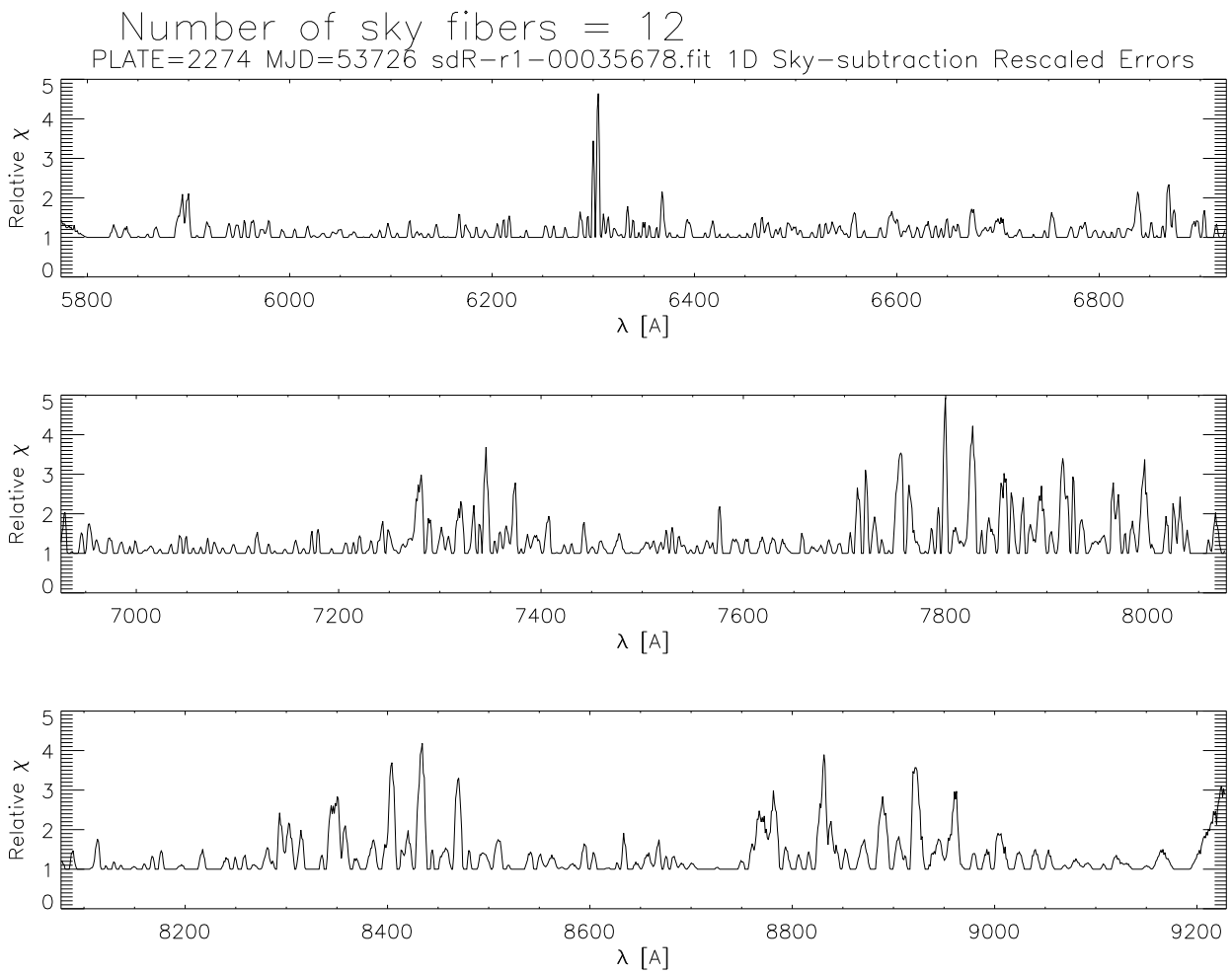
es= −0.0000

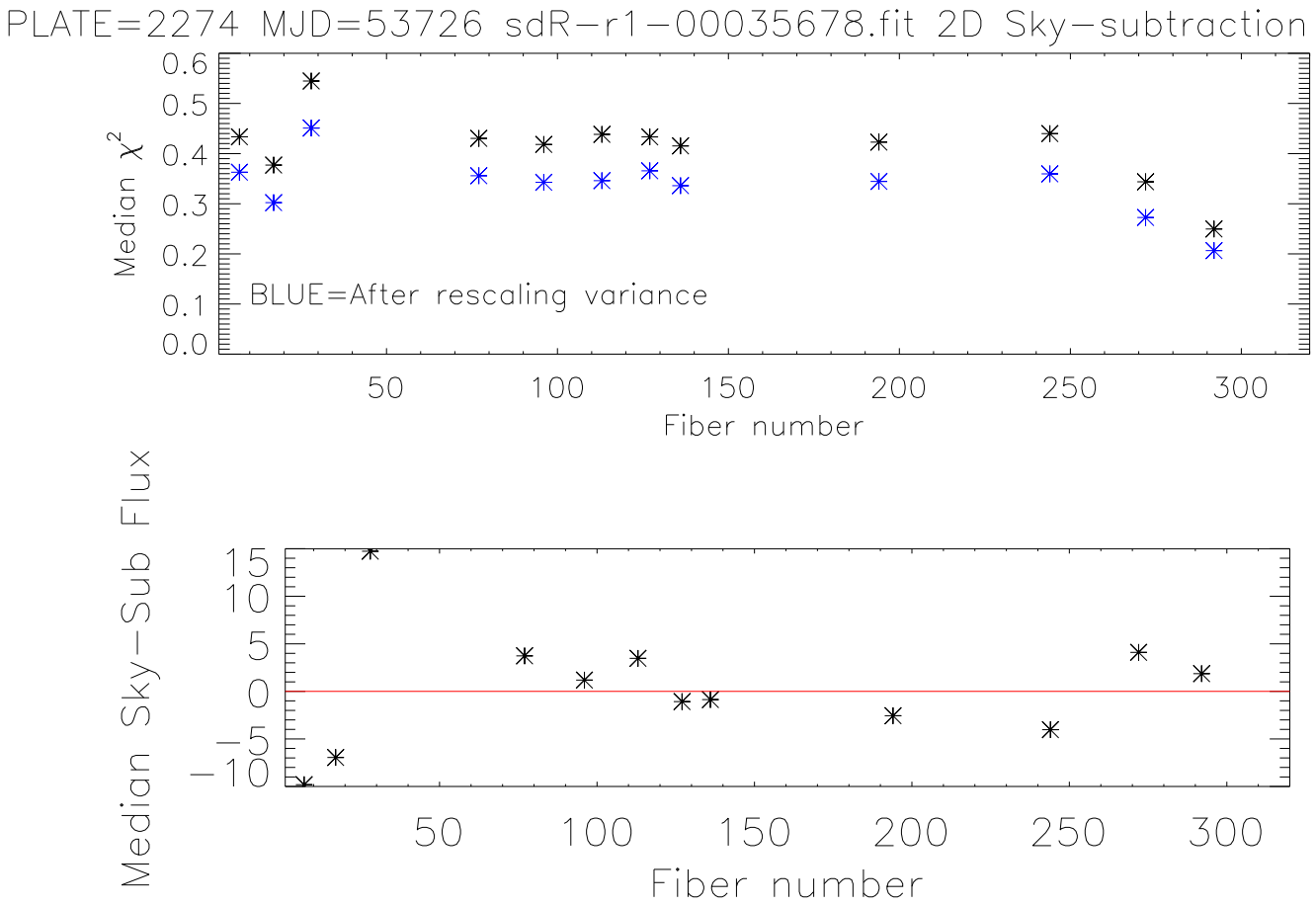

PLATE=2274 MJD=53726 Smooth superflat for sdR−r1−00035678.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

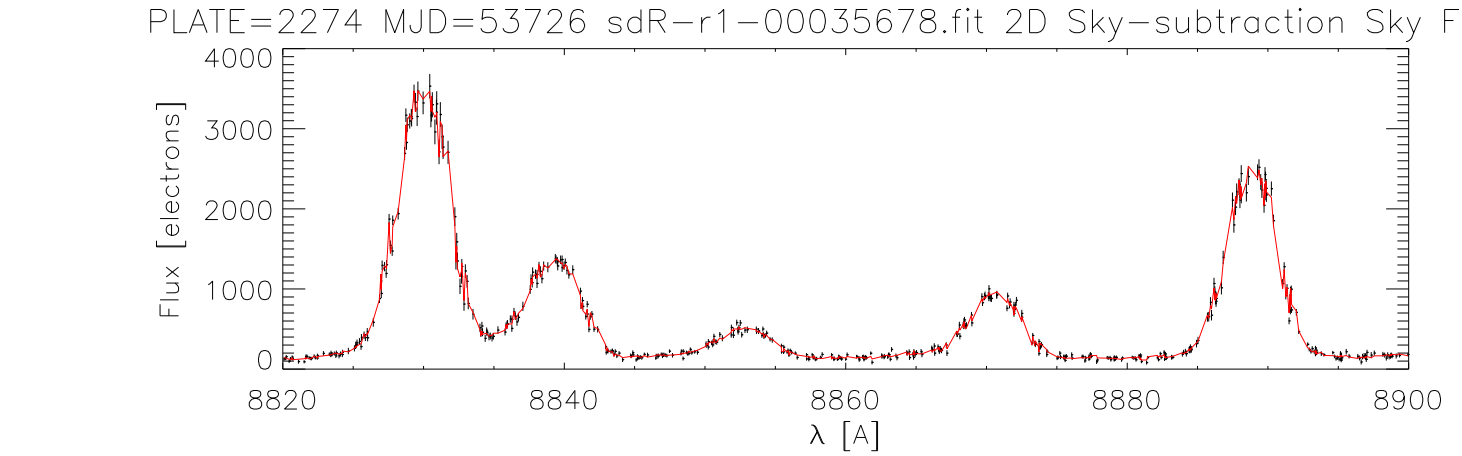

PLATE=2274 MJD=53726 sdR-r1-00035678.fit 1D Sky-subtraction Sky Fibers
Median χ^2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
15
10
5
0
-5
-10
50
100
150
200
250
300
Fiber number

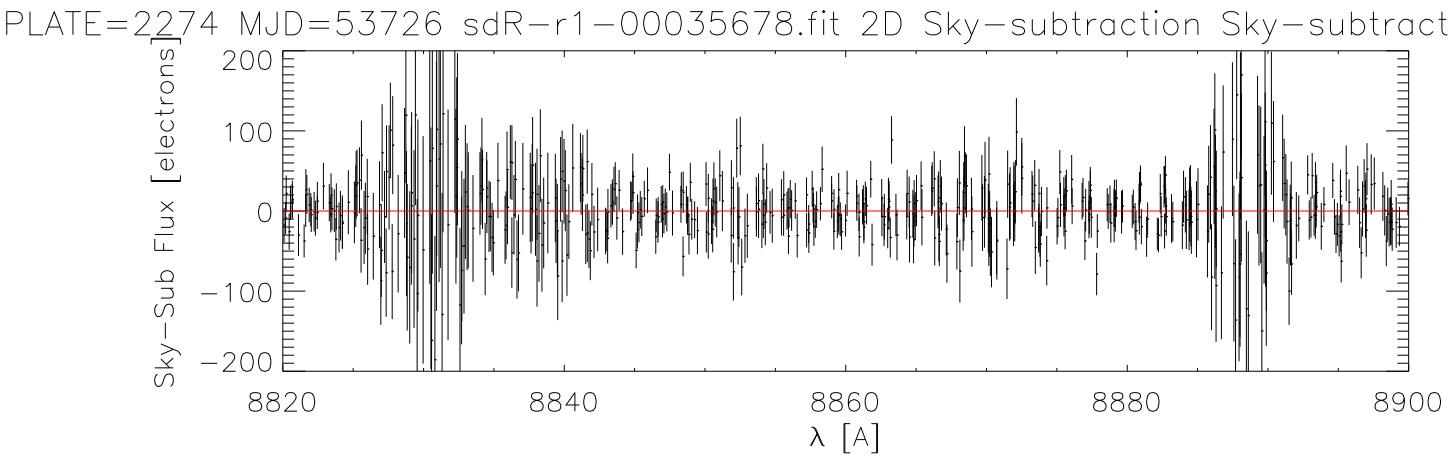

PLATE=2274 MJD=53726 sdR-r1-00035678.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

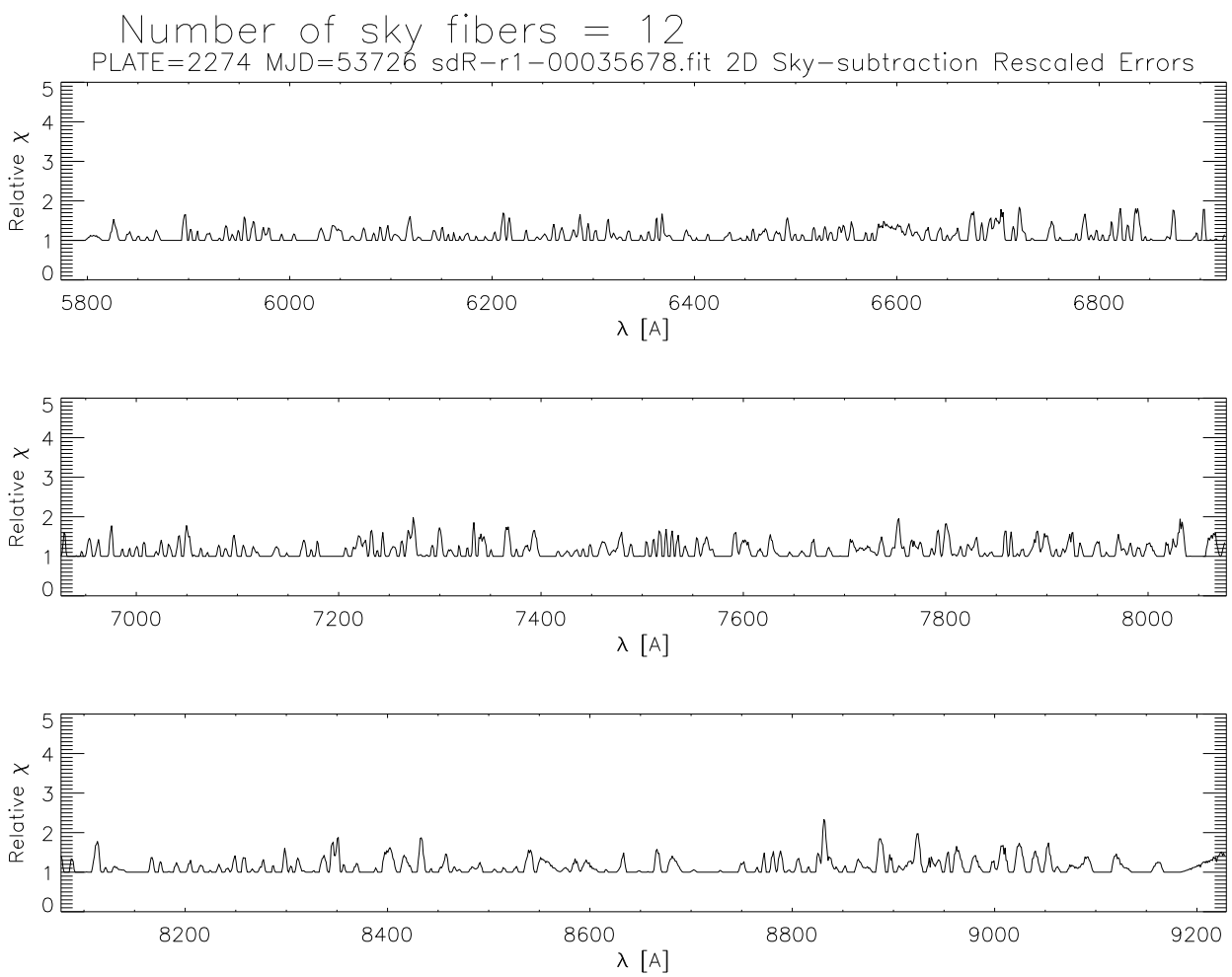

PLATE=2274 MJD=53726 sdR-r1-00035678.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

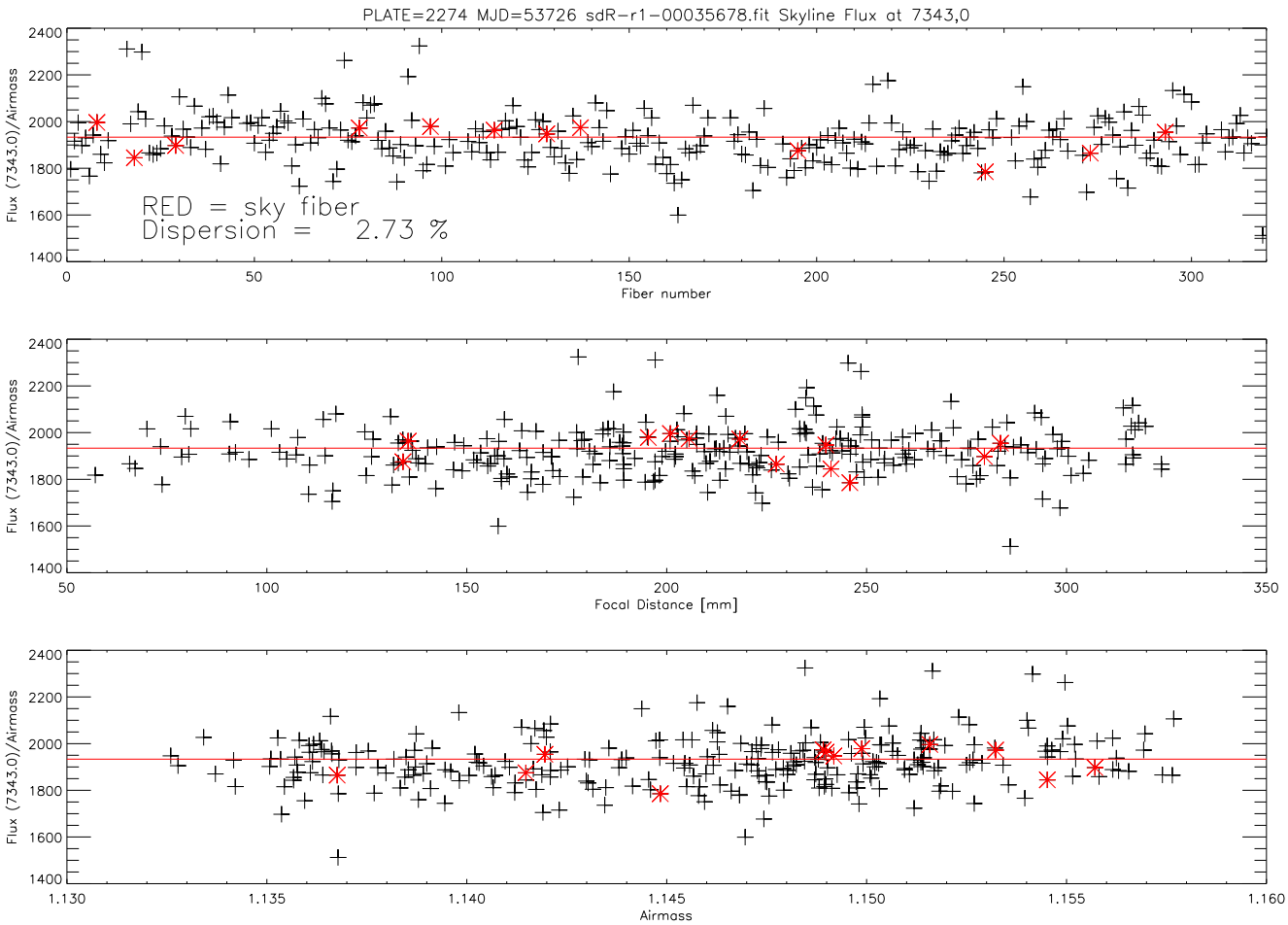

Number of sky fibers = 12
PLATE=2274 MJD=53726 sdR-r1-00035678.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

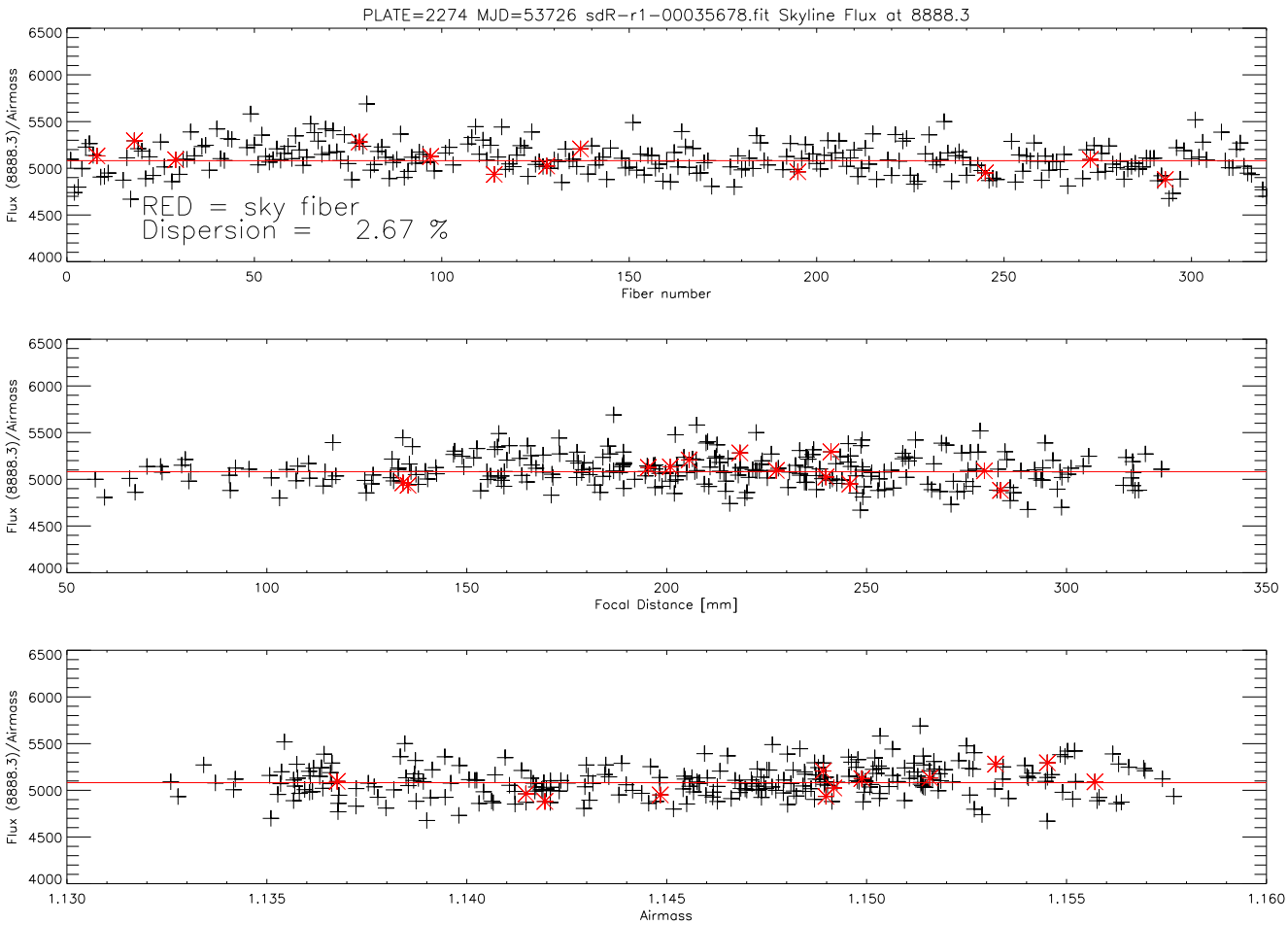

PLATE=2274 MJD=53726 sdR-r1-00035678.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

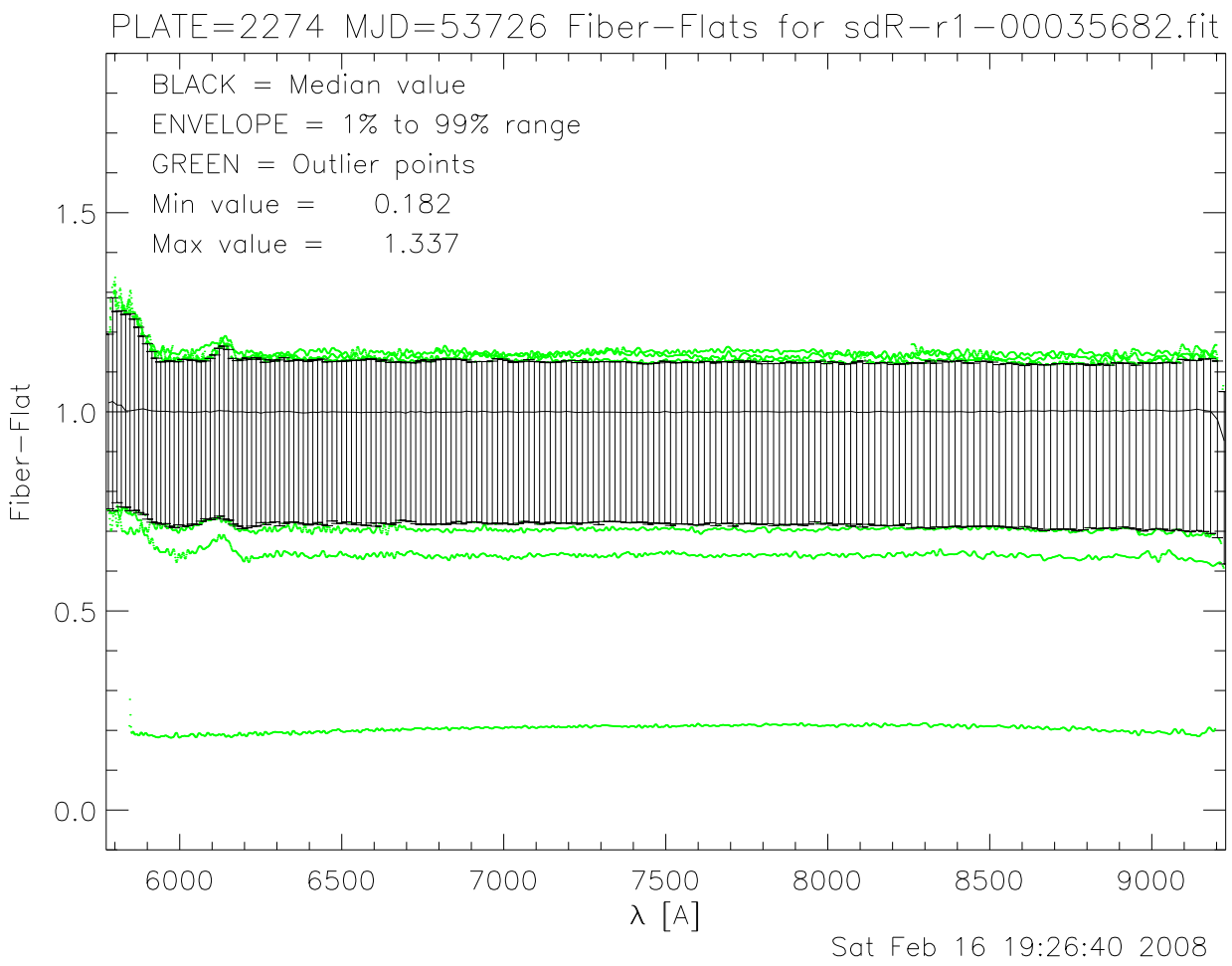

PLATE=2274 MJD=53726 sdR-r1-00035678.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

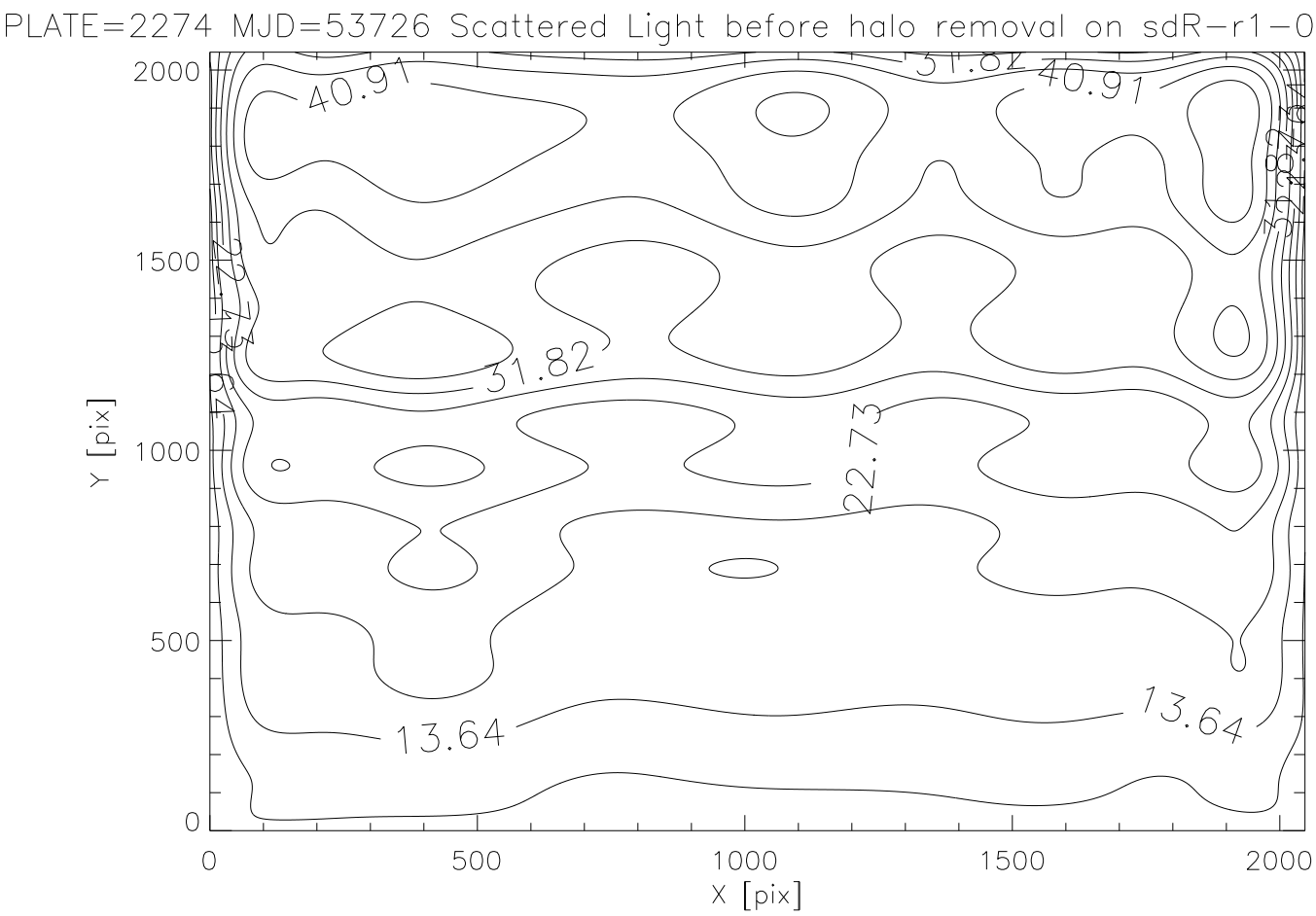

PLATE=2274 MJD=53726 sdR-r1-00035678.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

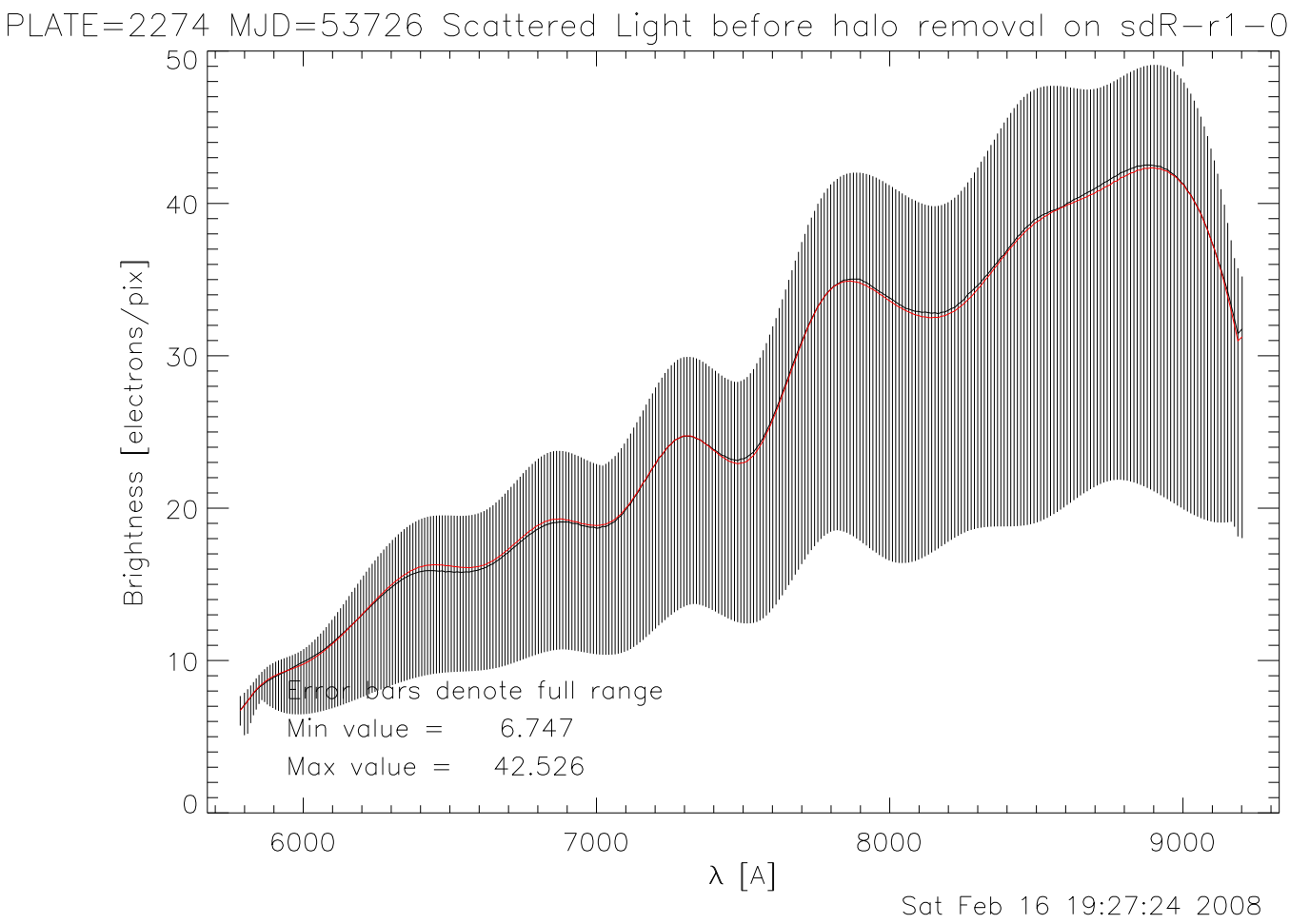

Number of sky fibers = 12
PLATE=2274 MJD=53726 sdR-r1-00035678.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

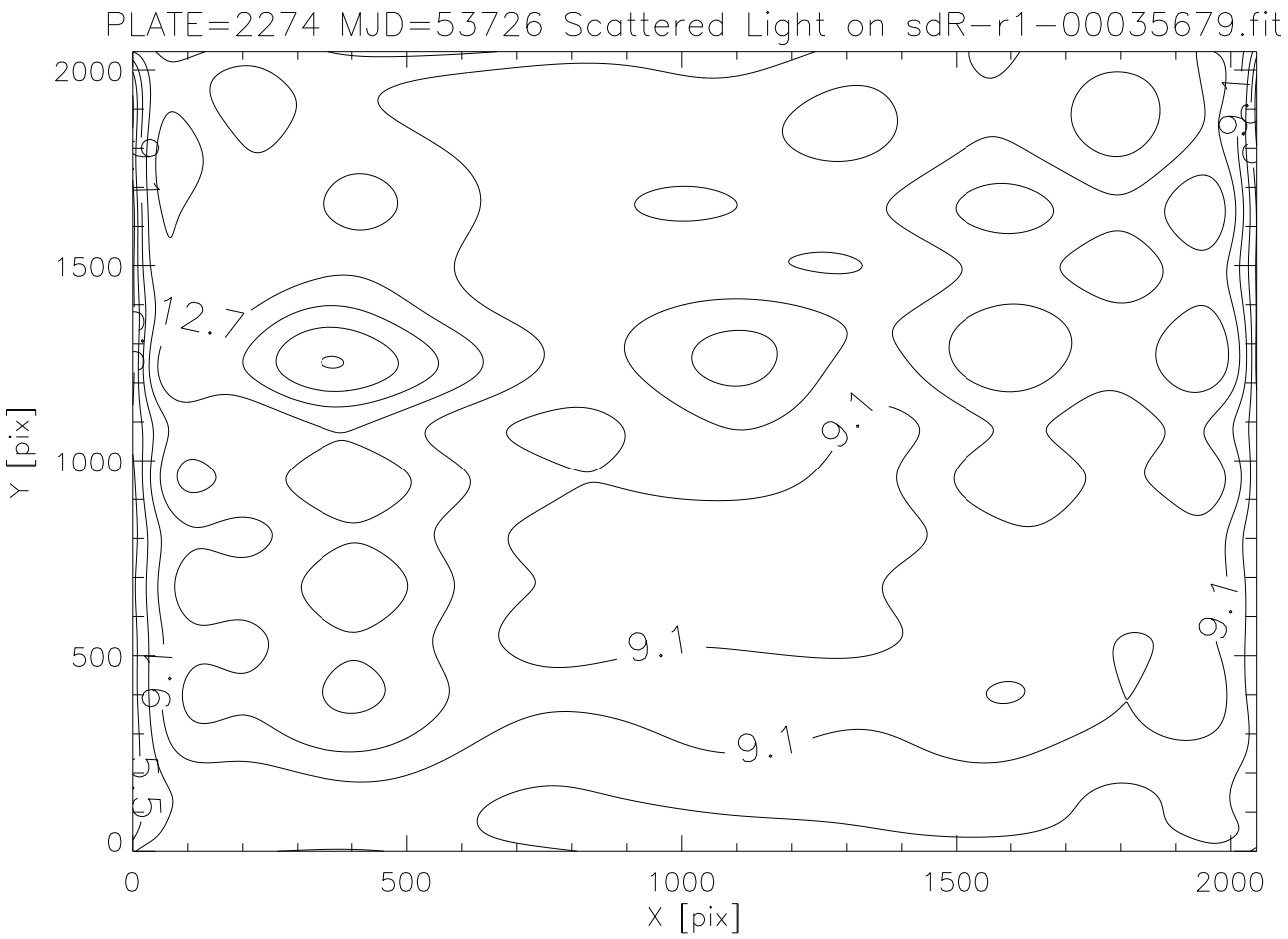

PLATE=2274 MJD=53726 sdR-r1-00035678.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.73 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

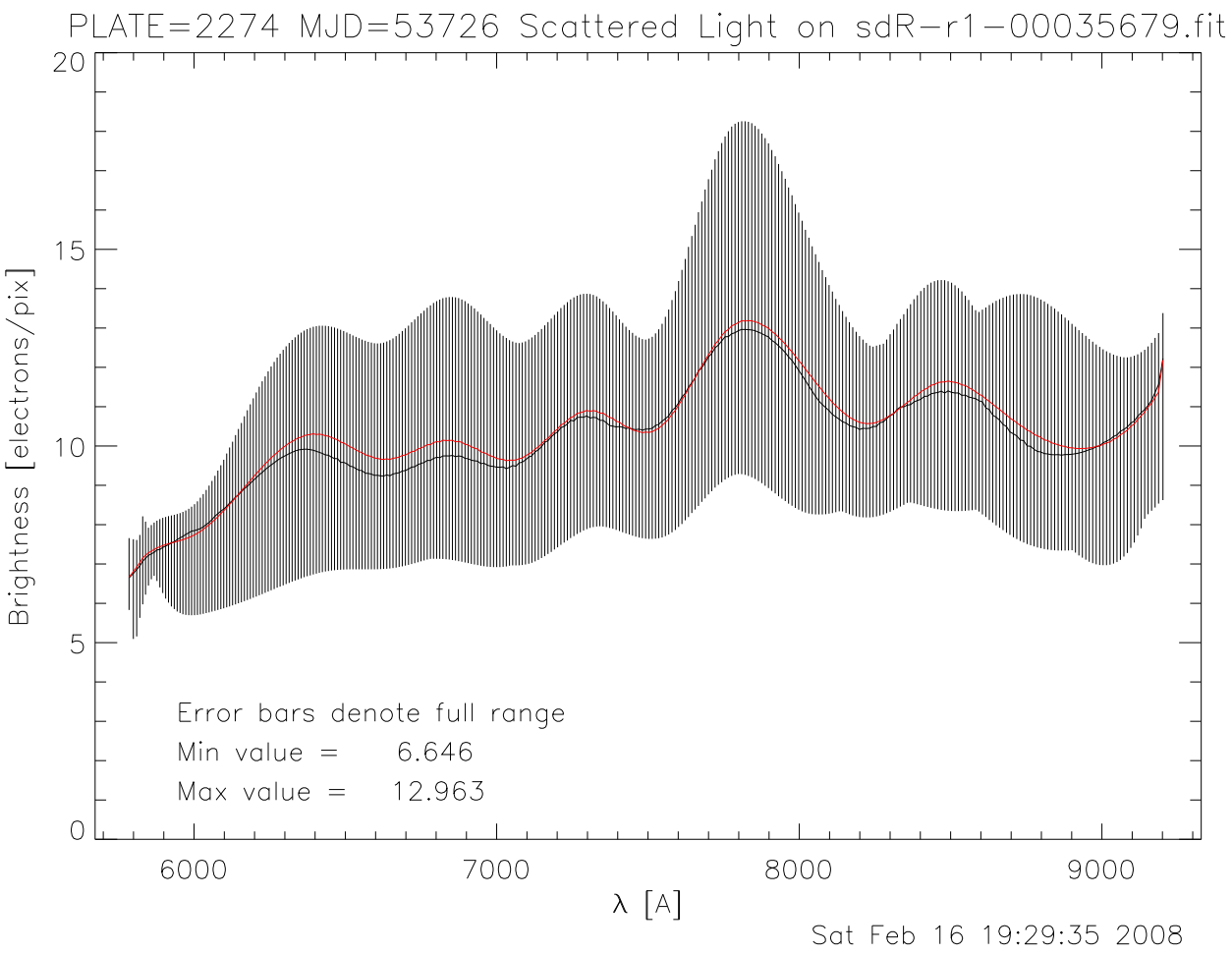

PLATE=2274 MJD=53726 sdR-r1-00035678.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.67 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

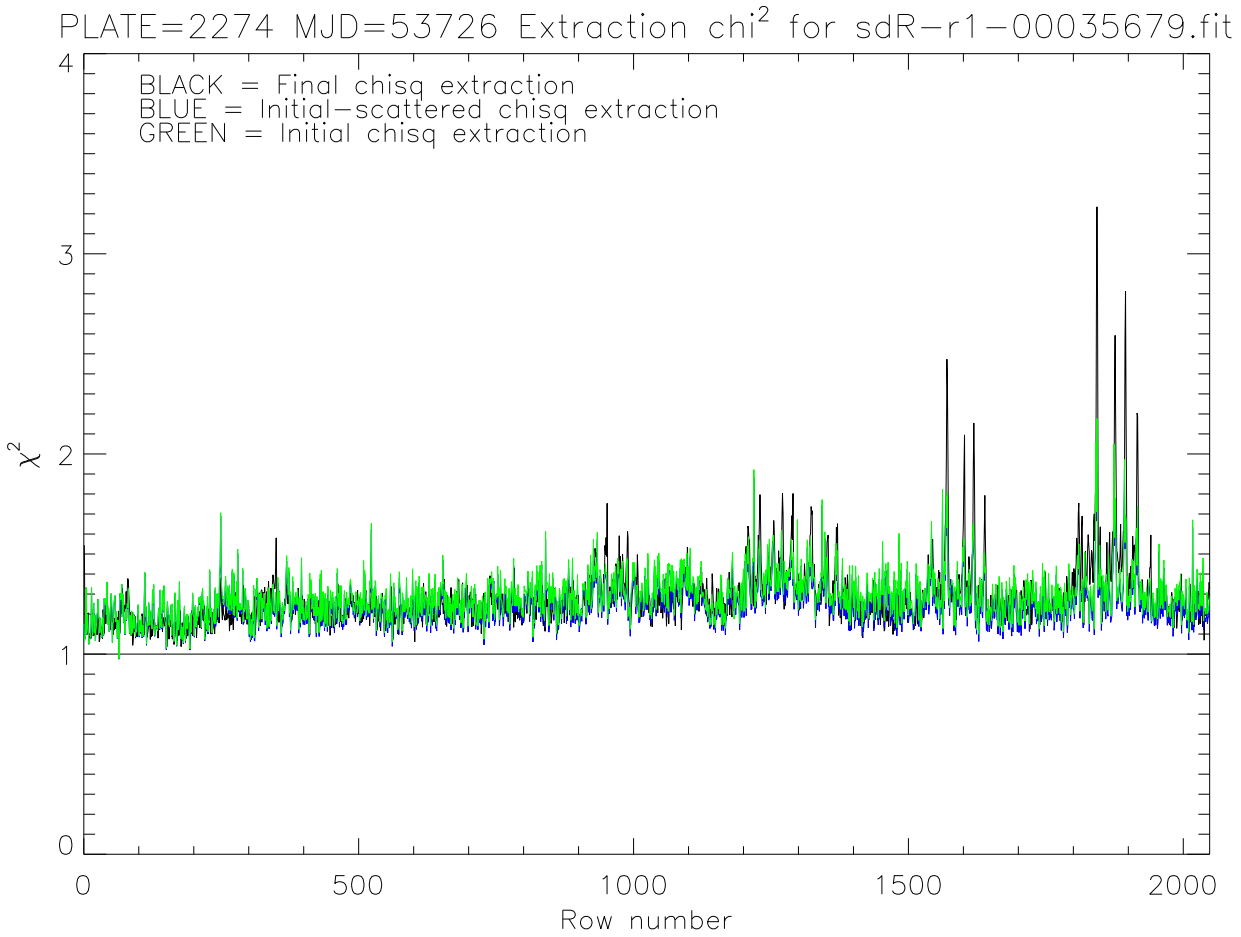

PLATE=2274 MJD=53726 Fiber−Flats for sdR−r1−00035682.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.182
Max value = 1.337
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sat Feb 16 19:26:40 2008

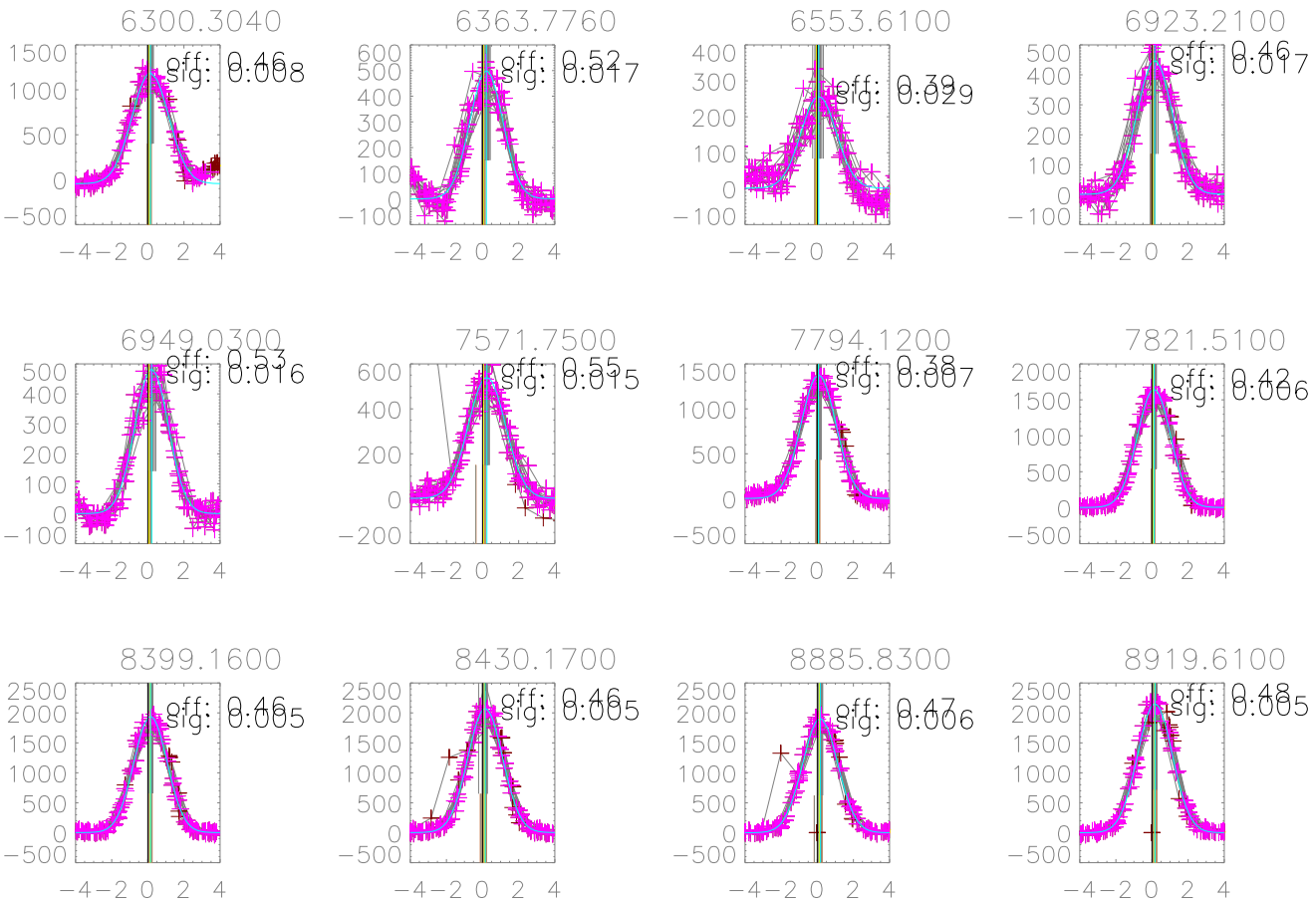

PLATE=2274 MJD=53726 Scattered Light before halo removal on sdR-r1-00035679.fi
40.91
31.82
22.73
13.64
0
Y [pix]
X [pix]
2000
1500
1000
500
0
0
500
1000
1500
2000

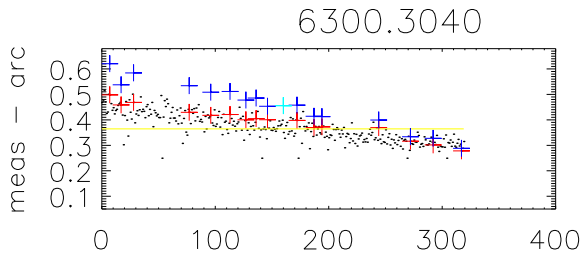

PLATE=2274 MJD=53726 Scattered Light before halo removal on sdR-r1-00035679.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.747
Max value = 42.526
Sat Feb 16 19:27:24 2008

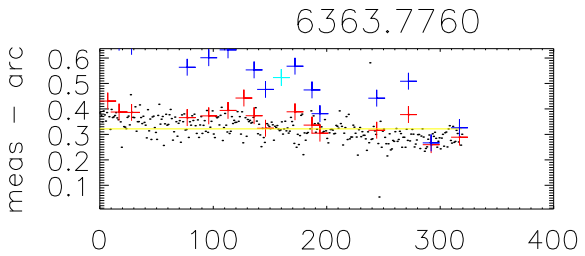

PLATE=2274 MJD=53726 Scattered Light on sdR-r1-00035679.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
12.7
9.1
9.1
9.1
9.1
9.1
9.1

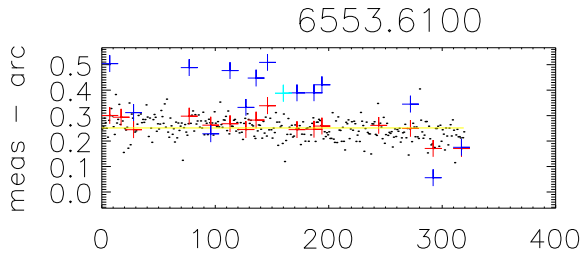

PLATE=2274 MJD=53726 Scattered Light on sdR-r1-00035679.fit
Brightness [electrons/pix]
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 6.646
Max value = 12.963
Sat Feb 16 19:29:35 2008

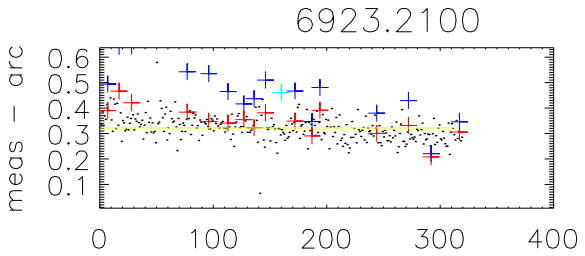

PLATE=2274 MJD=53726 Extraction chi^2 for sdR−r1−00035679.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

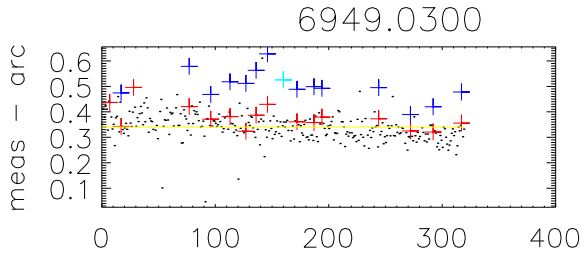

6300.3040
off: 0.46
sig: 0.008
6363.7760
off: 0.52
sig: 0.017
6553.6100
off: 0.39
sig: 0.029
6923.2100
off: 0.46
sig: 0.017
6949.0300
off: 0.53
sig: 0.016
7571.7500
off: 0.55
sig: 0.015
7794.1200
off: 0.38
sig: 0.007
7821.5100
off: 0.42
sig: 0.006
8399.1600
off: 0.46
sig: 0.005
8430.1700
off: 0.46
sig: 0.005
8885.8300
off: 0.47
sig: 0.006
8919.6100
off: 0.48
sig: 0.005

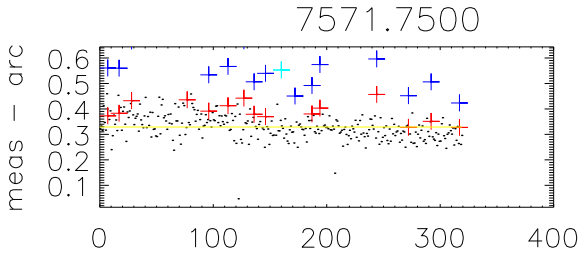

6300.3040
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

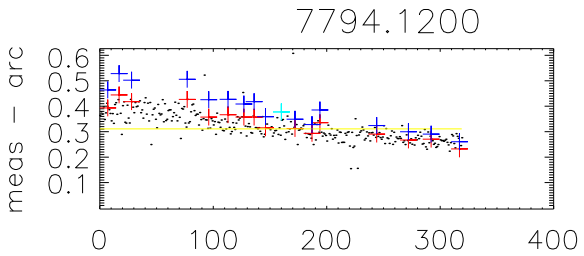

6363.7760
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

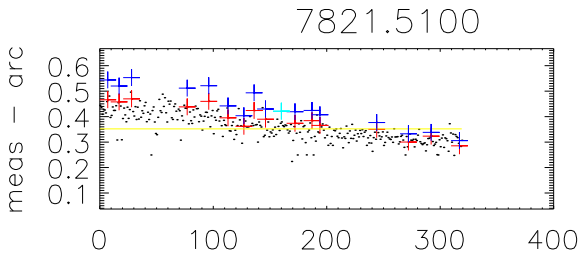

6553.6100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

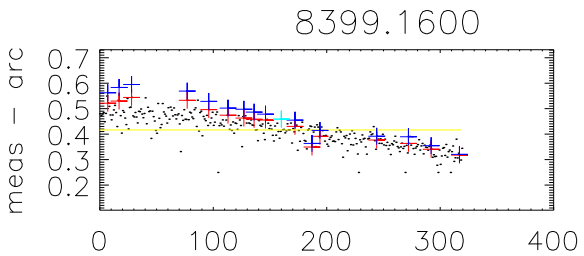

6923.2100
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

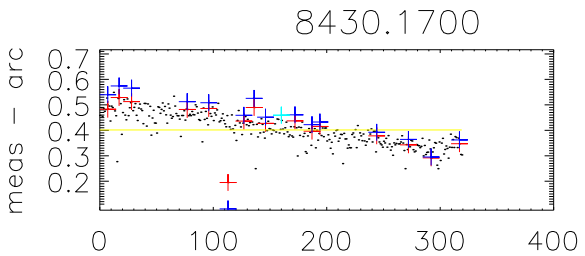

6949.0300
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

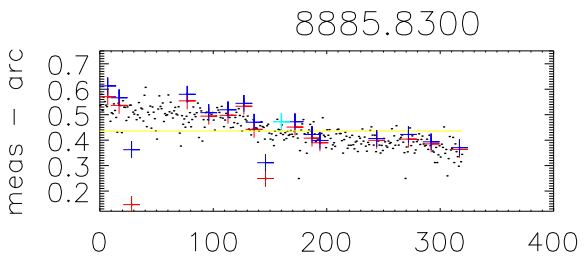

7571.7500
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

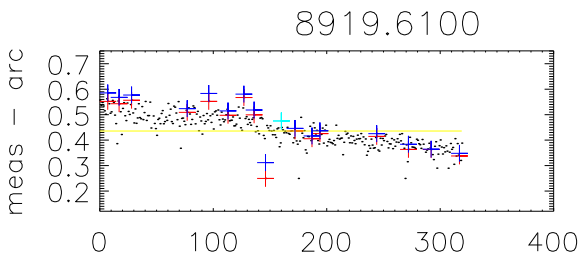

7794.1200
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

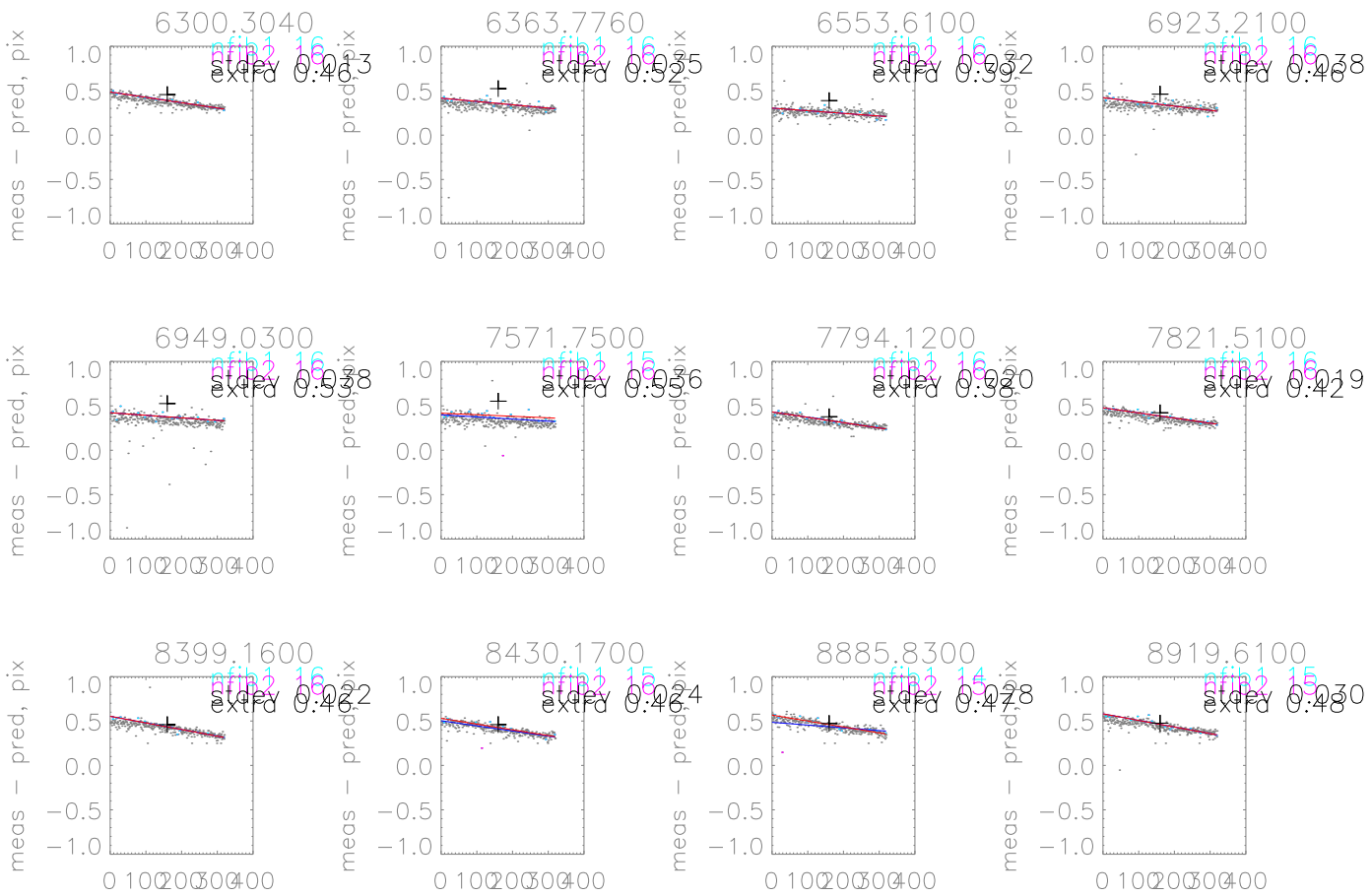

7821.5100
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

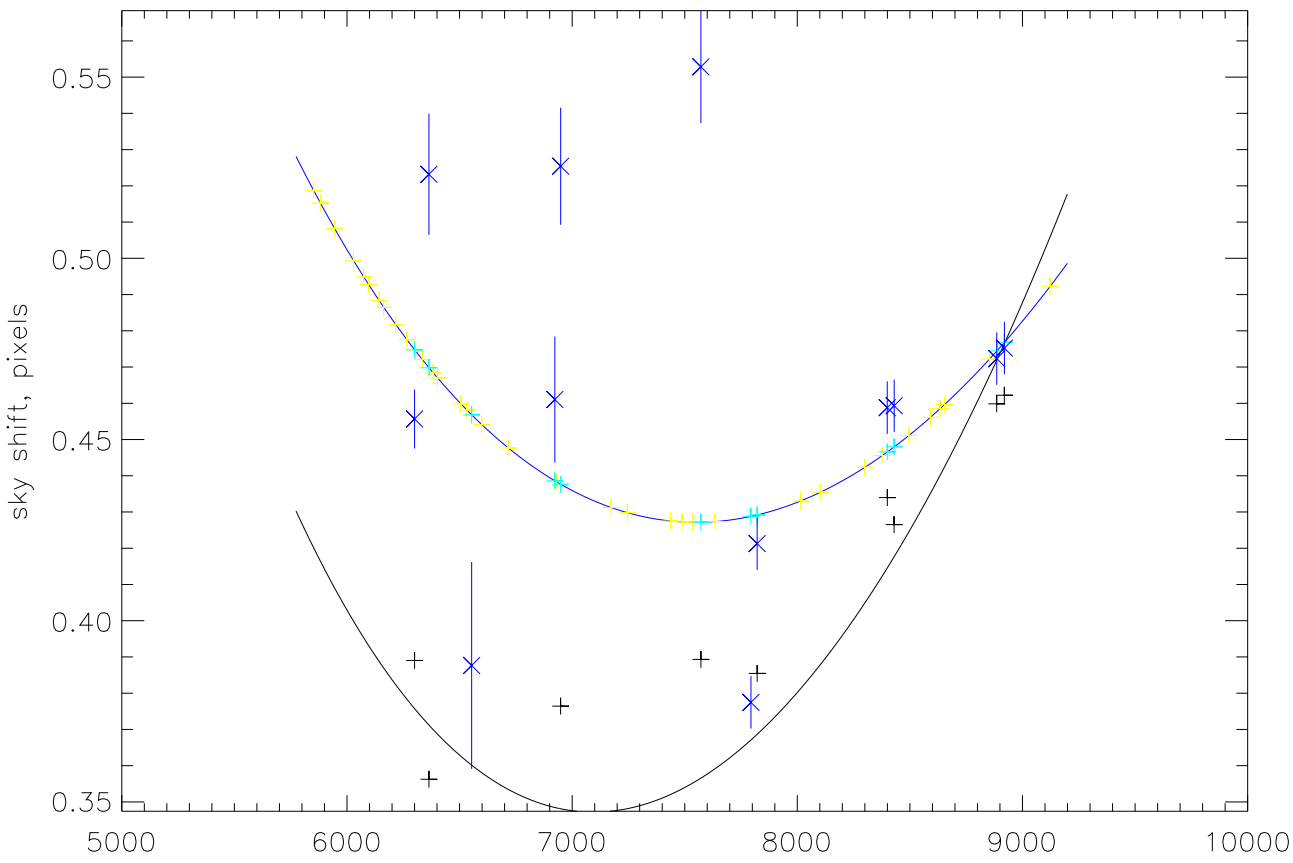

8399.1600
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

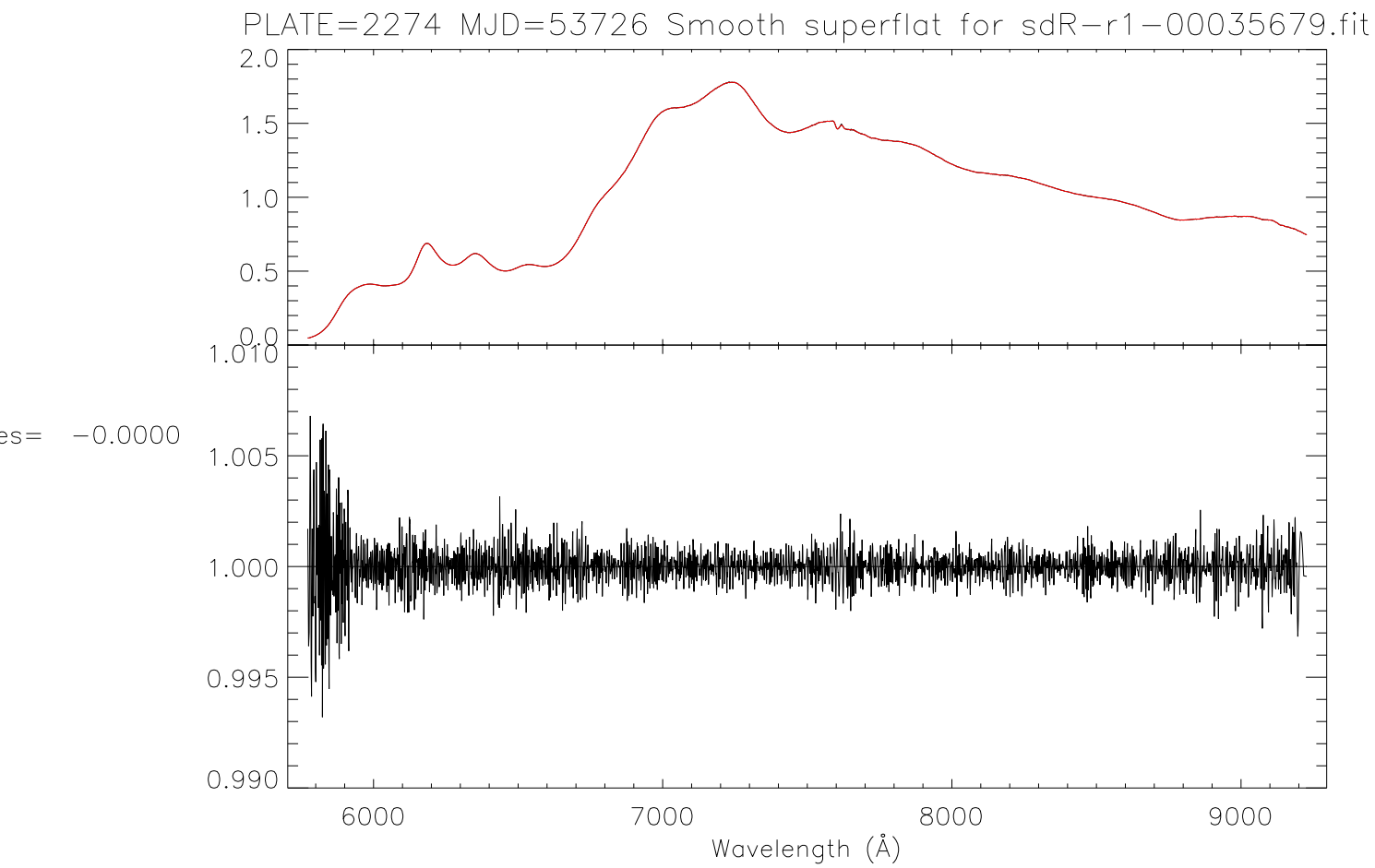

8430.1700
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

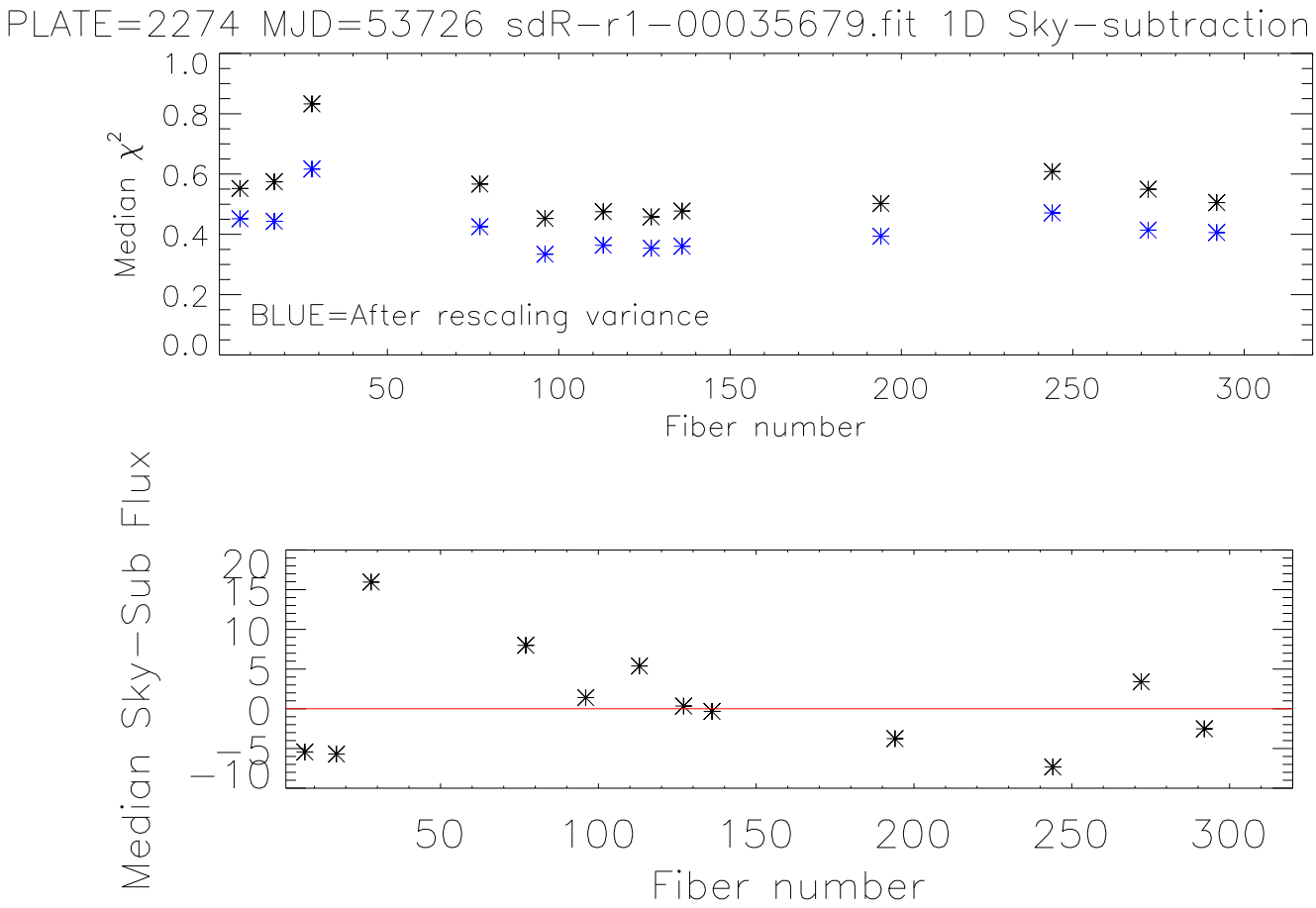

8885.8300
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

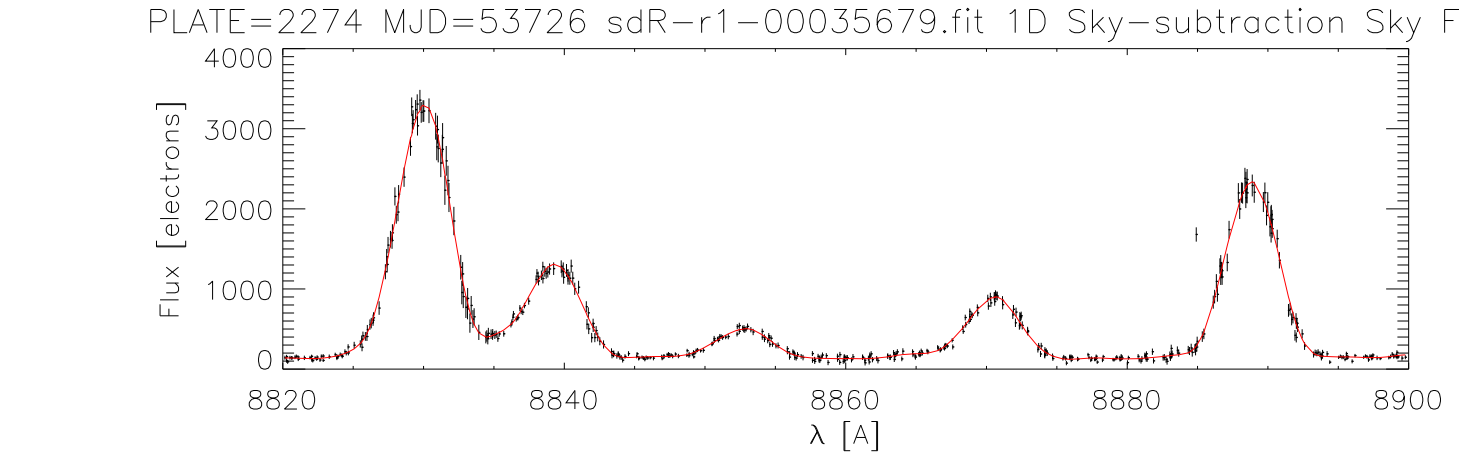

8919.6100
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

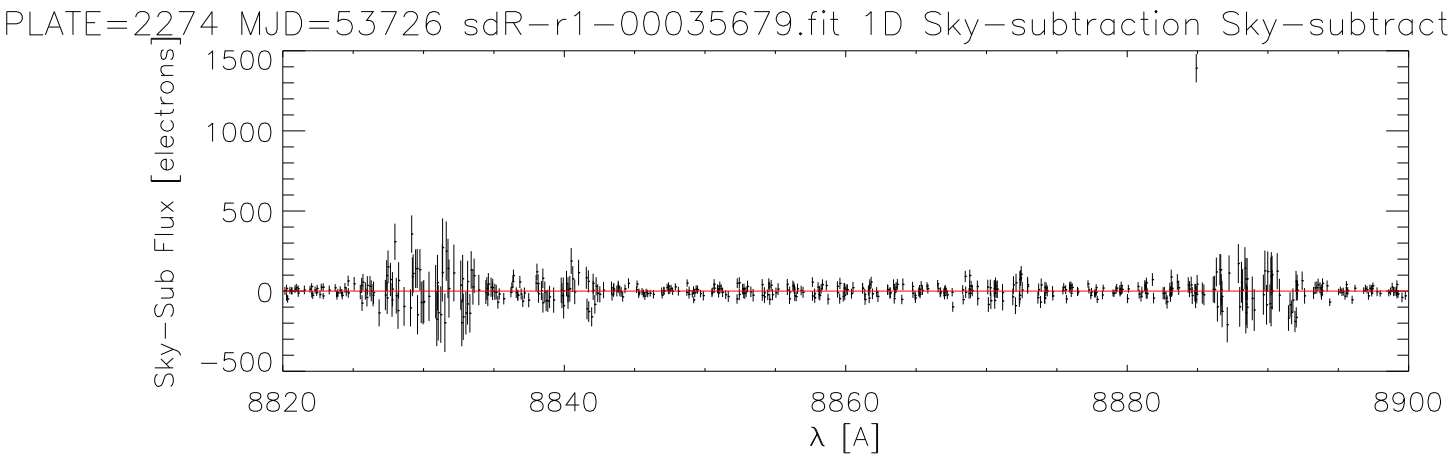

6300.3040
stdev 0.013
extra 0.46
6363.7760
stdev 0.025
extra 0.52
6553.6100
stdev 0.032
extra 0.39
6923.2100
stdev 0.038
extra 0.46
6949.0300
stdev 0.038
extra 0.53
7571.7500
stdev 0.036
extra 0.55
7794.1200
stdev 0.020
extra 0.38
7821.5100
stdev 0.019
extra 0.42
8399.1600
stdev 0.022
extra 0.46
8430.1700
stdev 0.024
extra 0.46
8885.8300
stdev 0.028
extra 0.47
8919.6100
stdev 0.030
extra 0.48
meas − pred, pix
meas − pred, pix

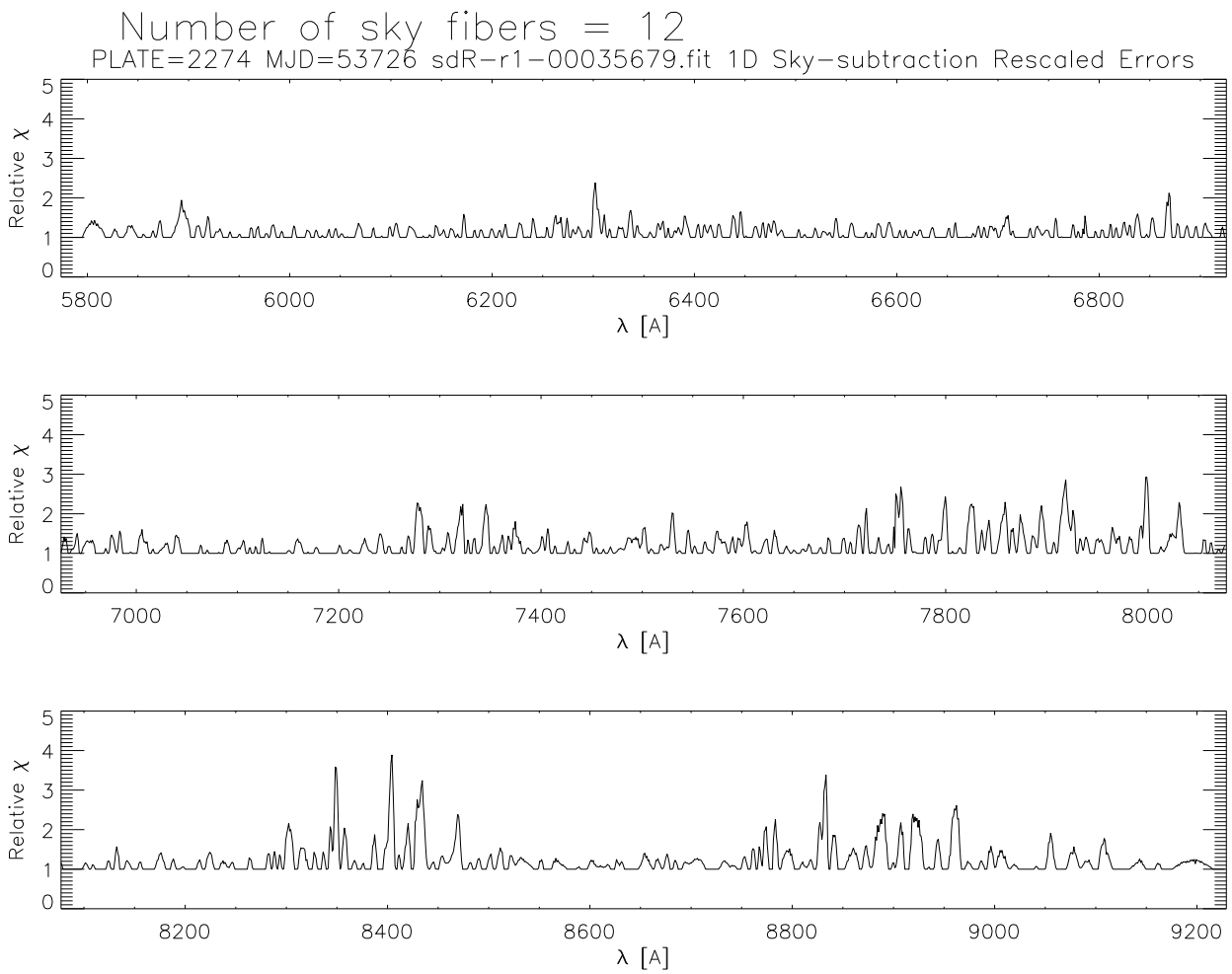

sky shift, pixels
0.55
0.50
0.45
0.40
0.35
5000
6000
7000
8000
9000
10000

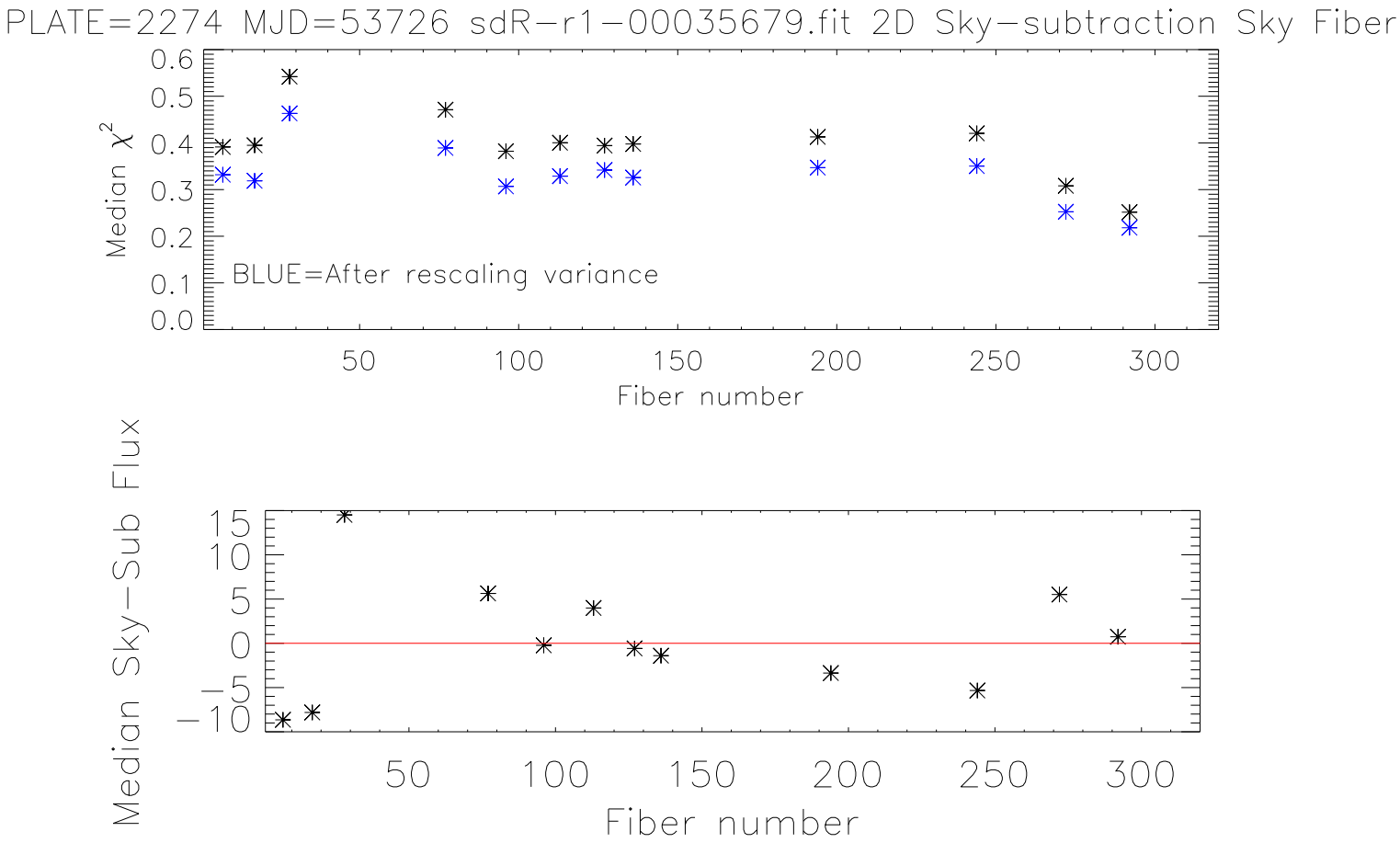

PLATE=2274 MJD=53726 Smooth superflat for sdR-r1-00035679.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

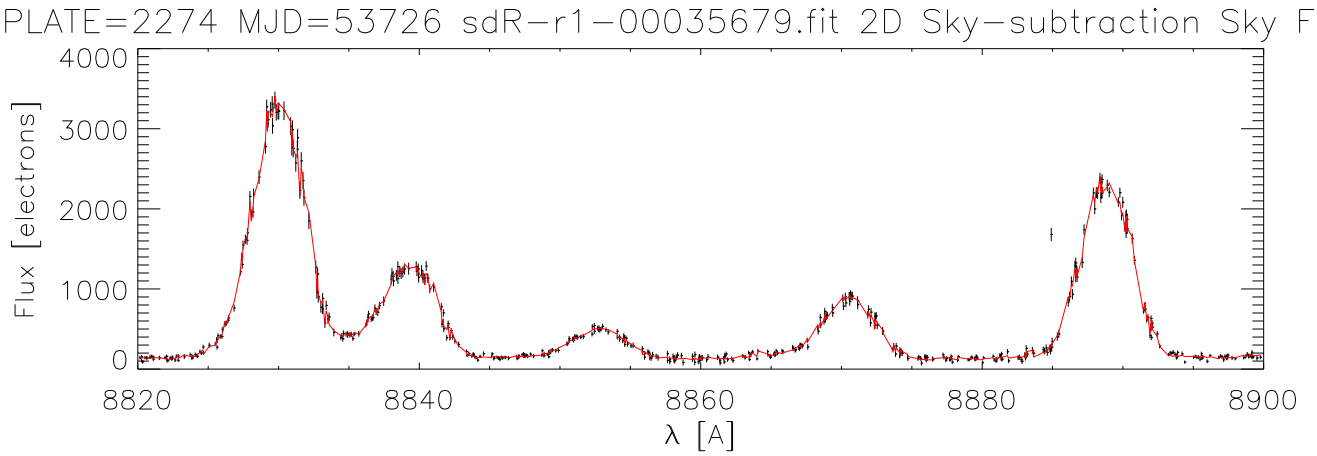

PLATE=2274 MJD=53726 sdR-r1-00035679.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

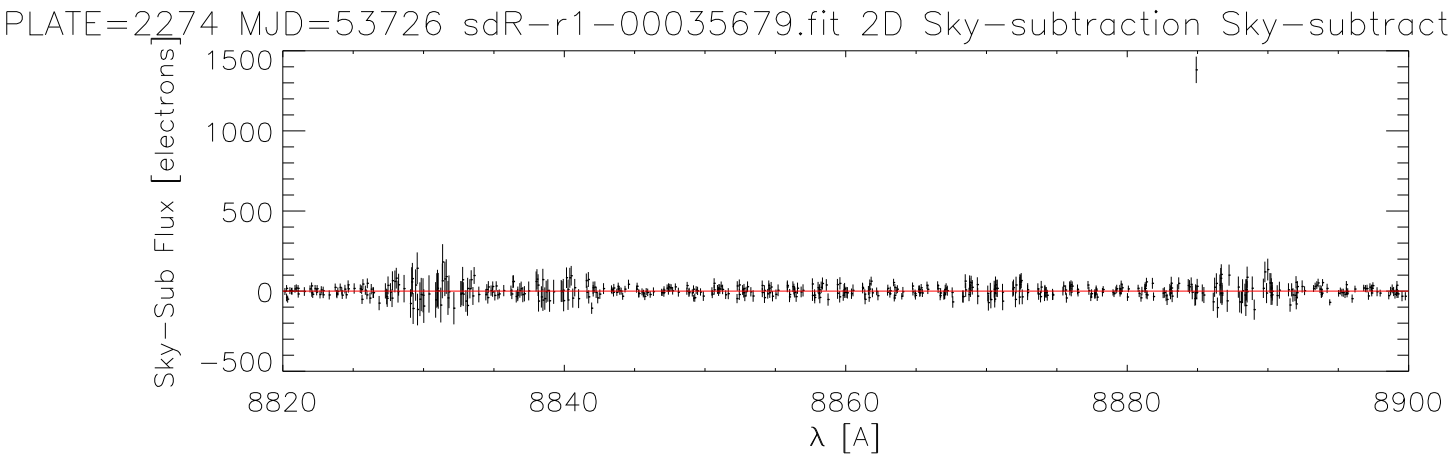

PLATE=2274 MJD=53726 sdR-r1-00035679.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

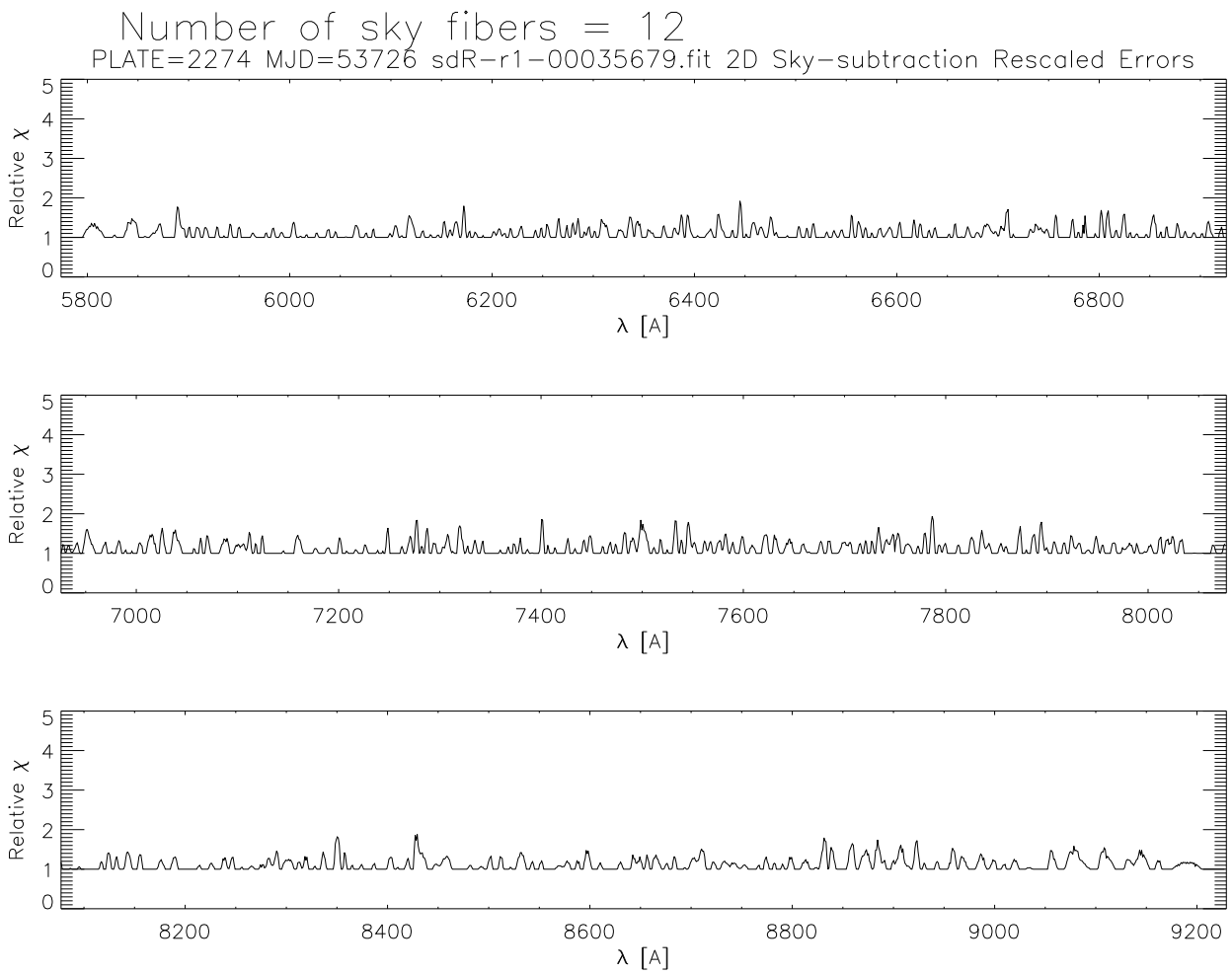

PLATE=2274 MJD=53726 sdR-r1-00035679.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

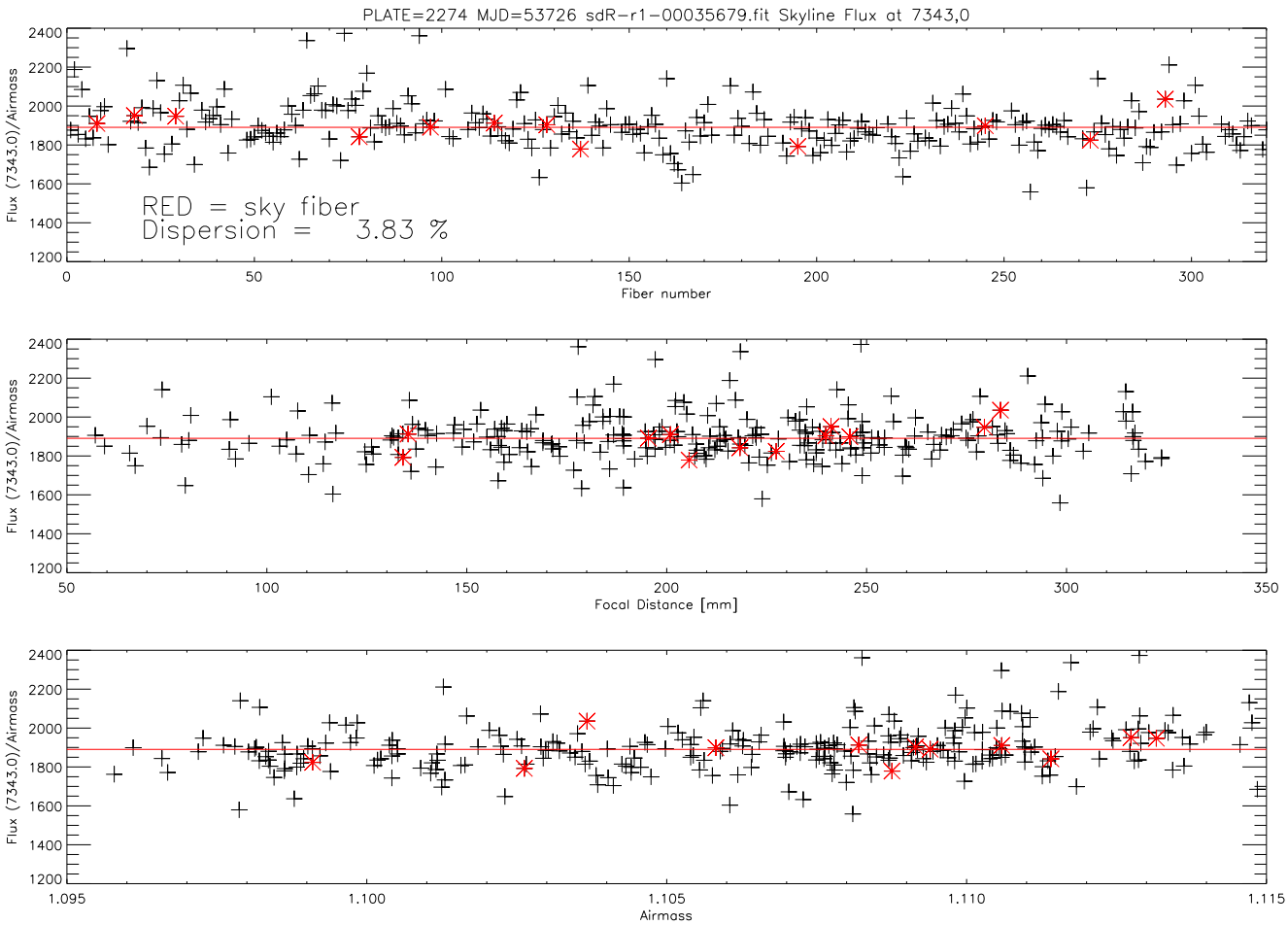

Number of sky fibers = 12
PLATE=2274 MJD=53726 sdR-r1-00035679.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

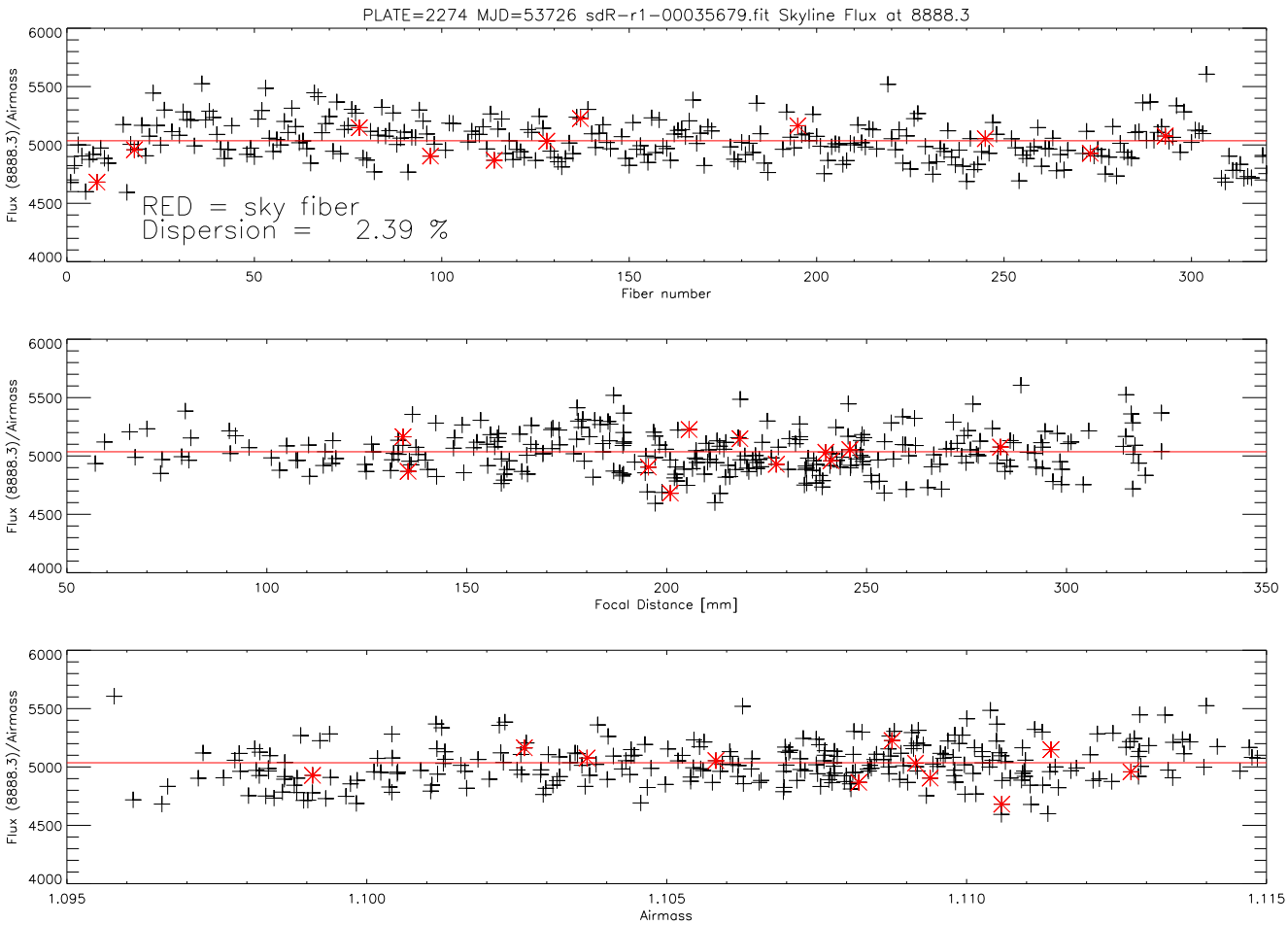

PLATE=2274 MJD=53726 sdR-r1-00035679.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

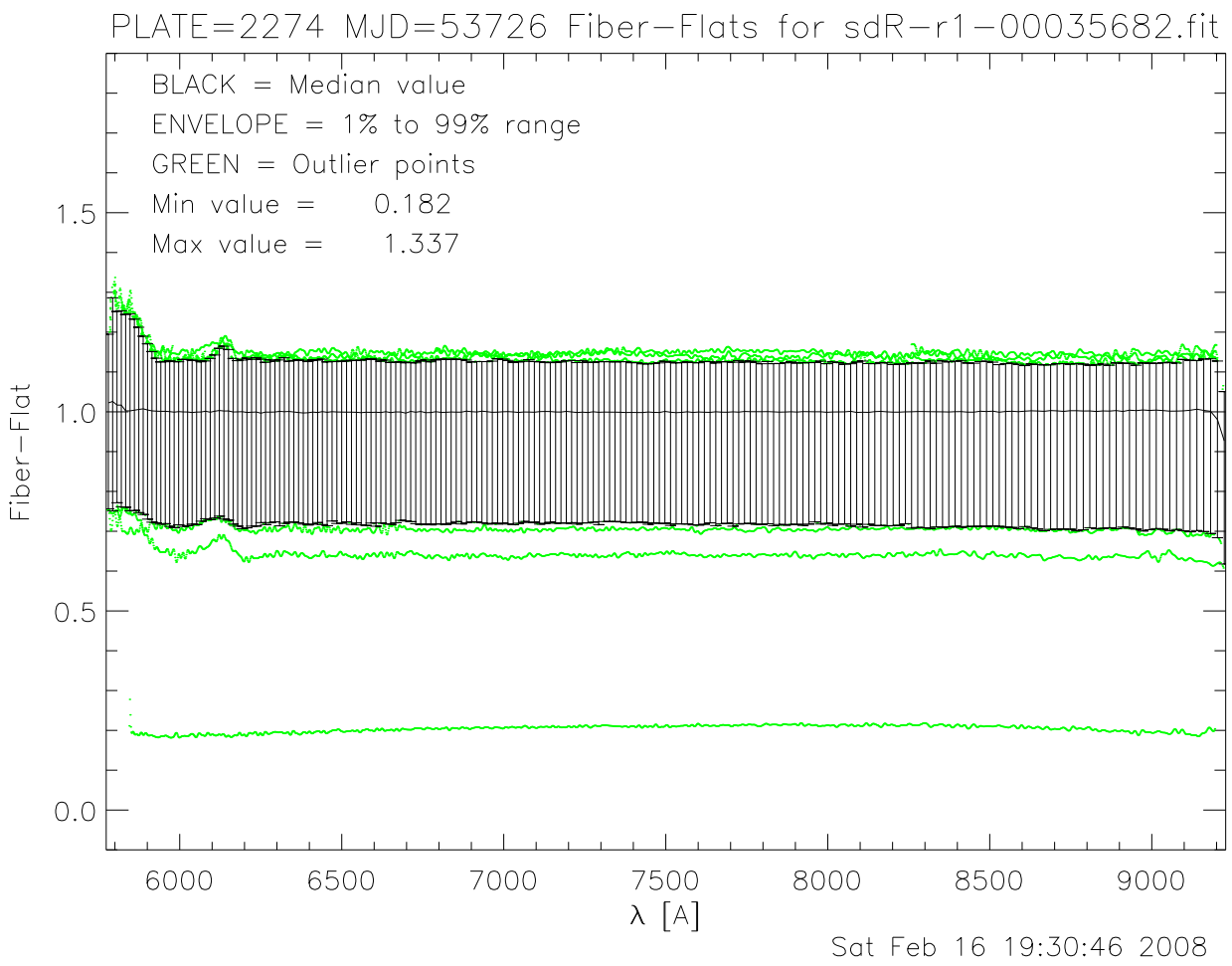

PLATE=2274 MJD=53726 sdR-r1-00035679.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

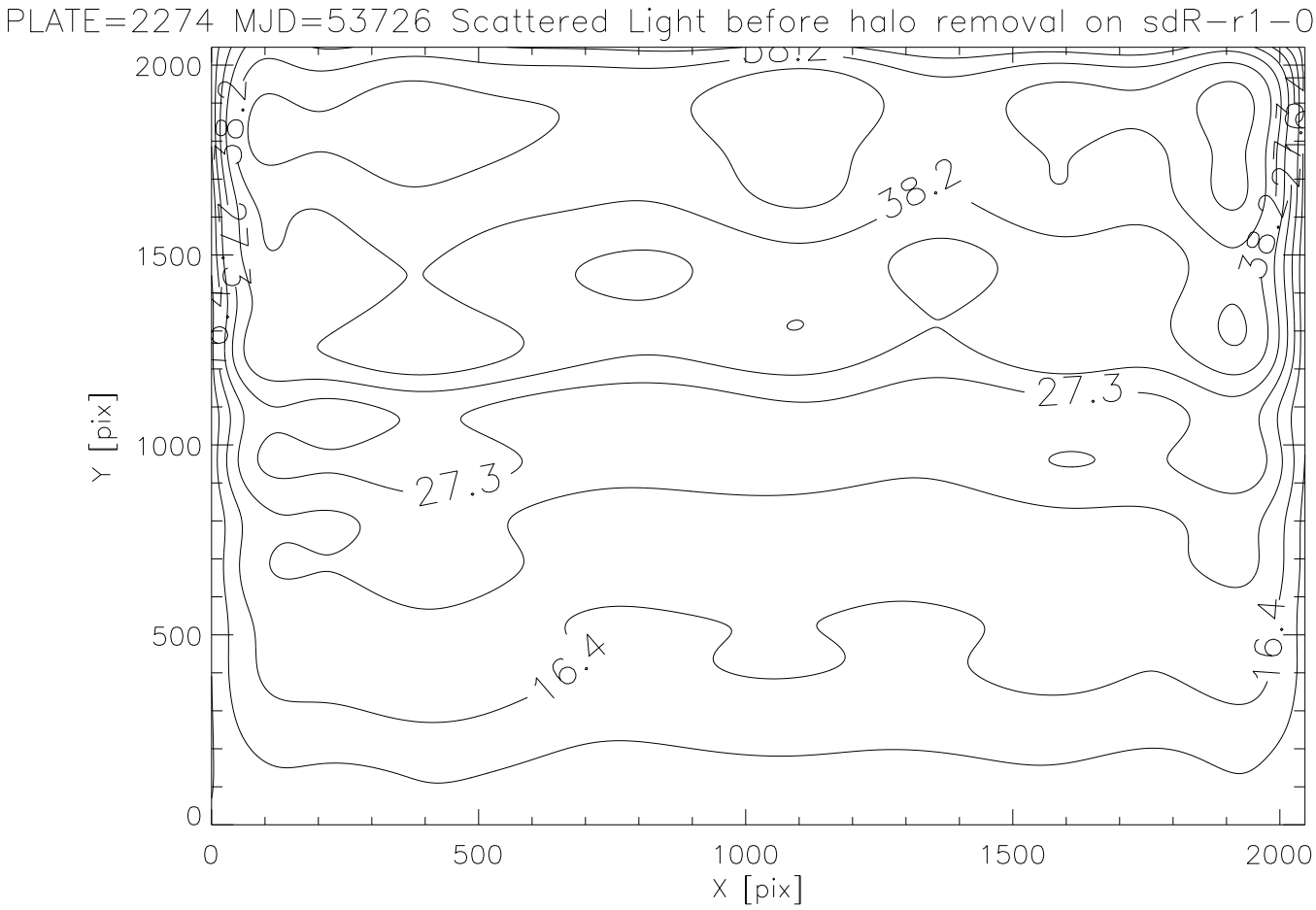

PLATE=2274 MJD=53726 sdR-r1-00035679.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

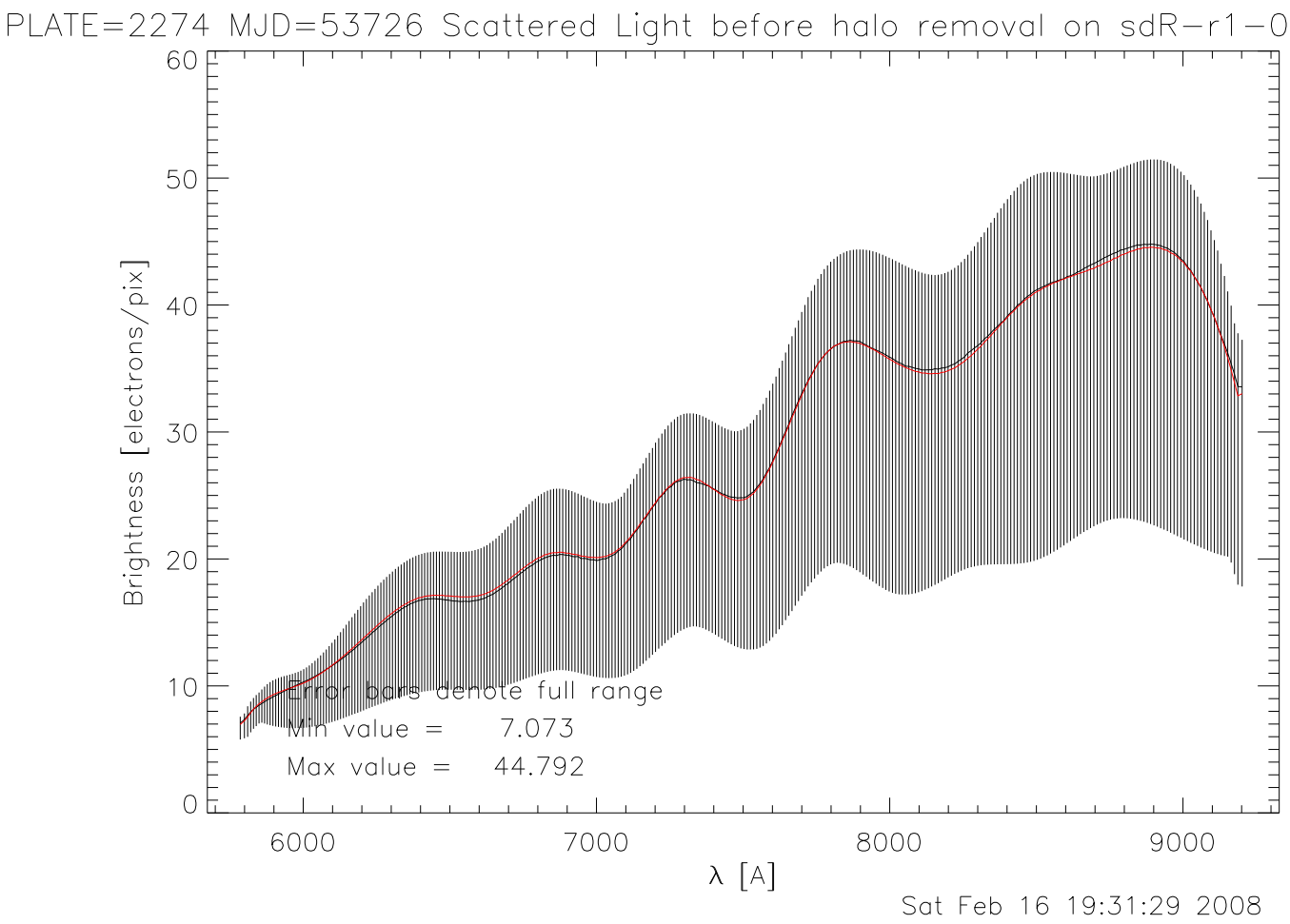

Number of sky fibers = 12
PLATE=2274 MJD=53726 sdR-r1-00035679.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

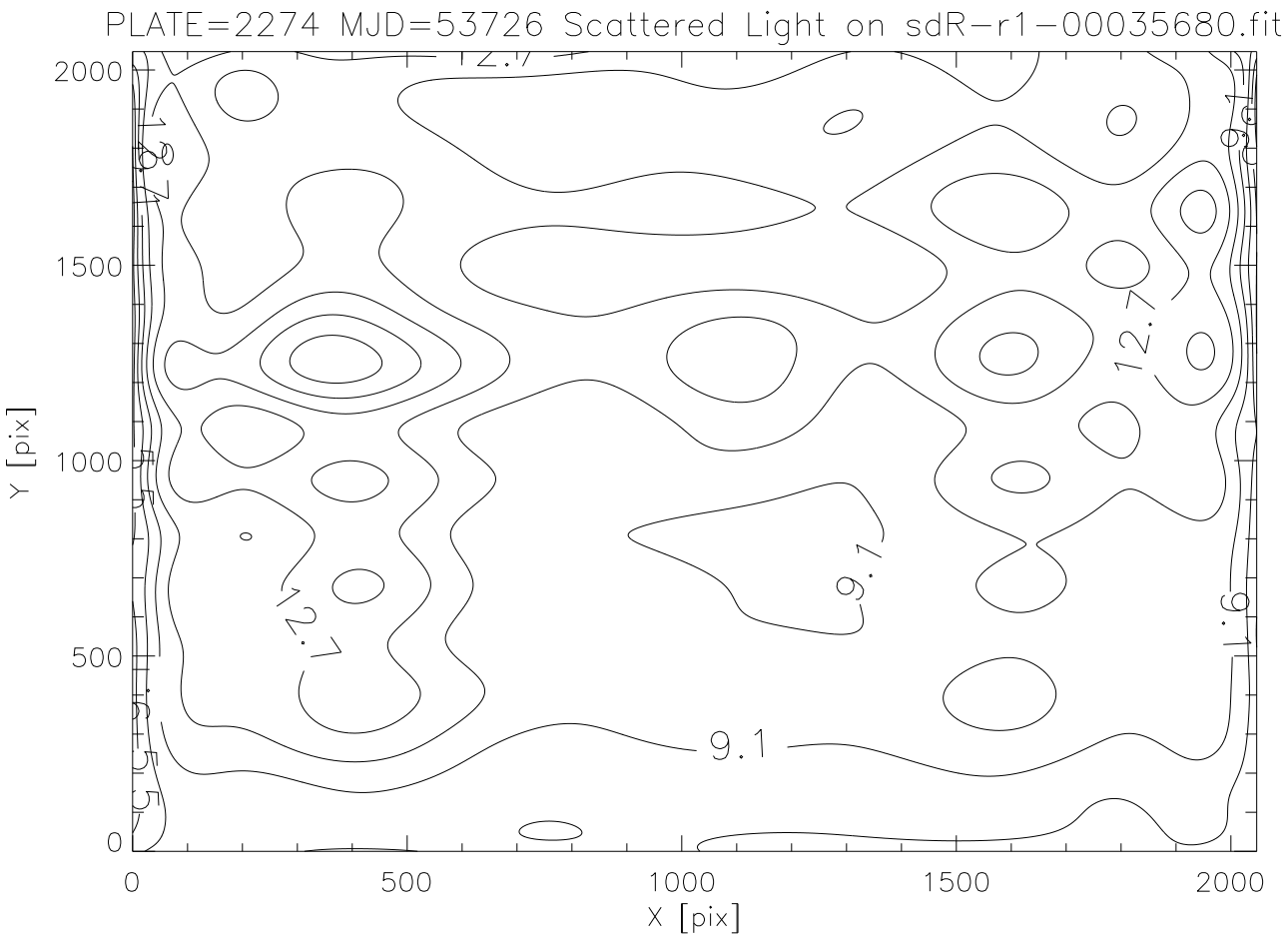

PLATE=2274 MJD=53726 sdR-r1-00035679.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.83 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

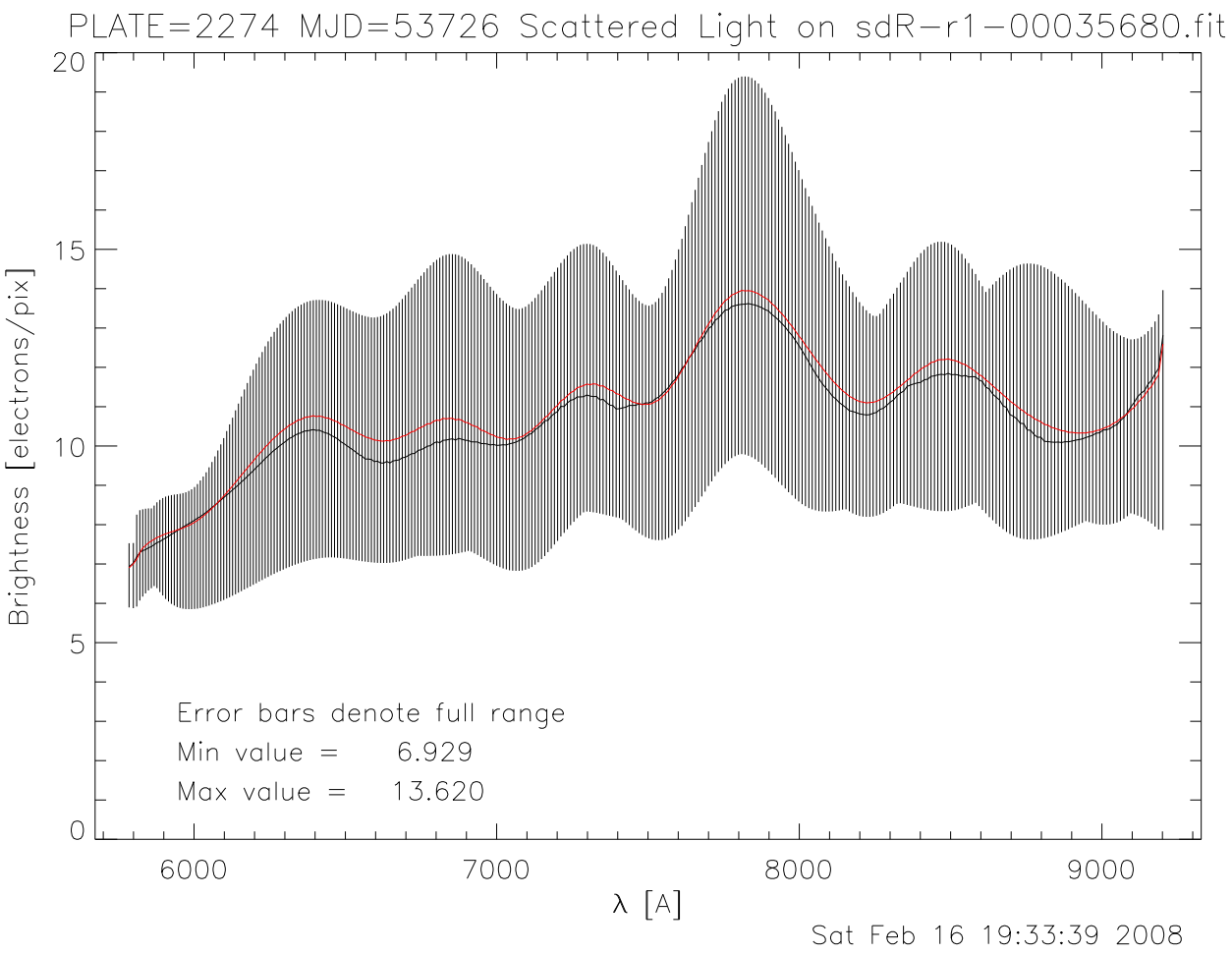

PLATE=2274 MJD=53726 sdR-r1-00035679.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.39 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

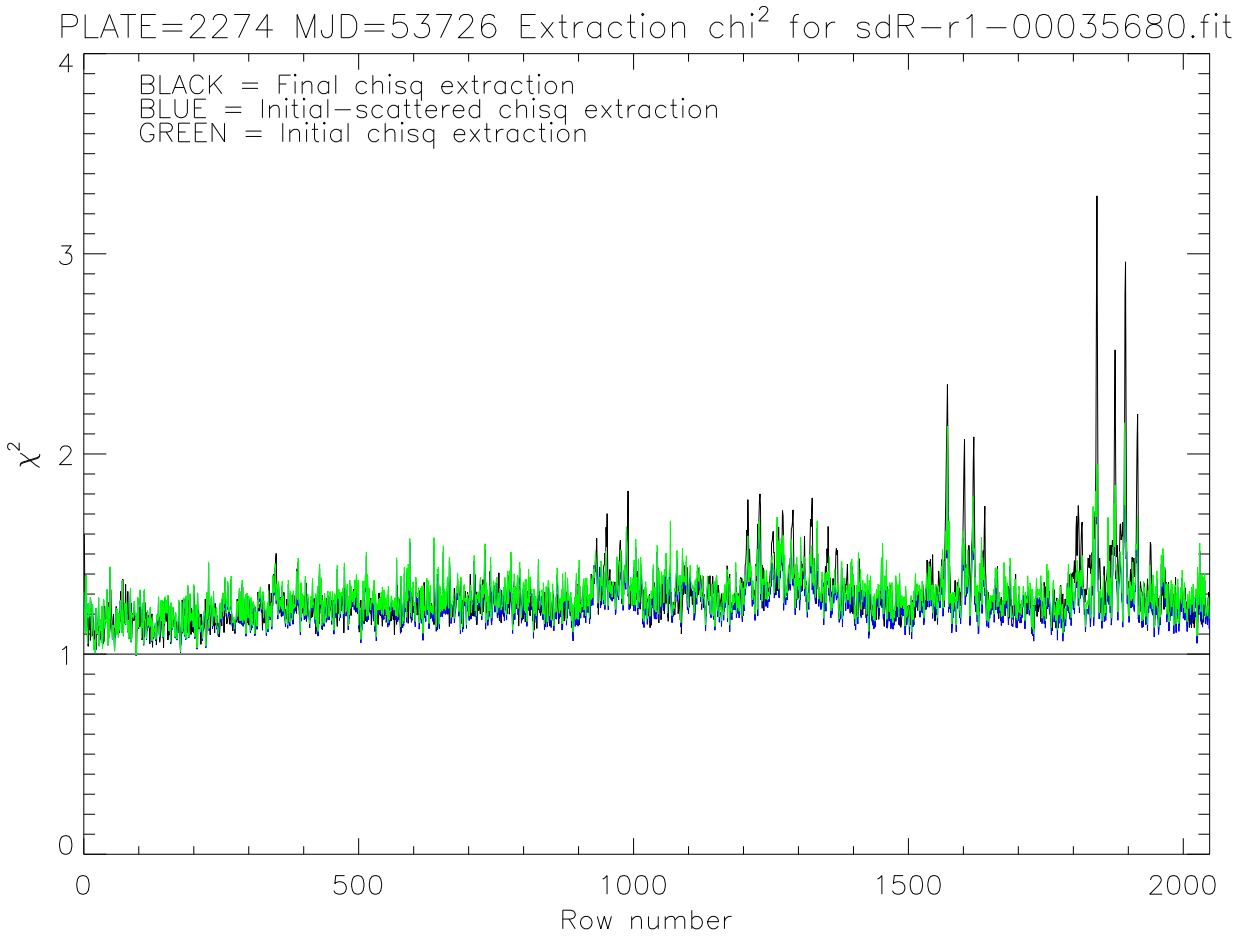

PLATE=2274 MJD=53726 Fiber−Flats for sdR−r1−00035682.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.182
Max value = 1.337
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sat Feb 16 19:30:46 2008

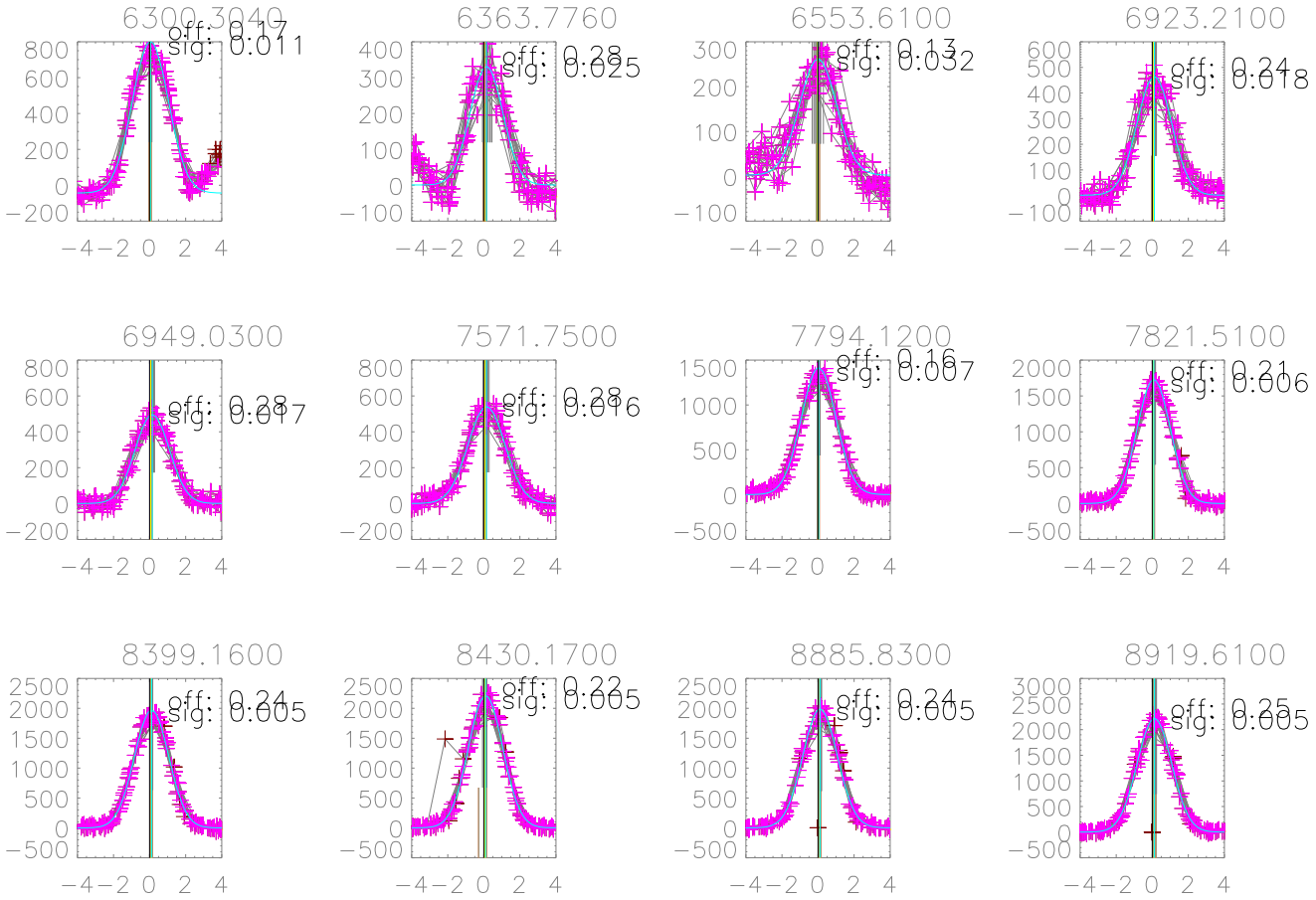

PLATE=2274 MJD=53726 Scattered Light before halo removal on sdR-r1-00035680.fi
38.2
27.3
16.4
Y [pix]
X [pix]
0
500
1000
1500
2000

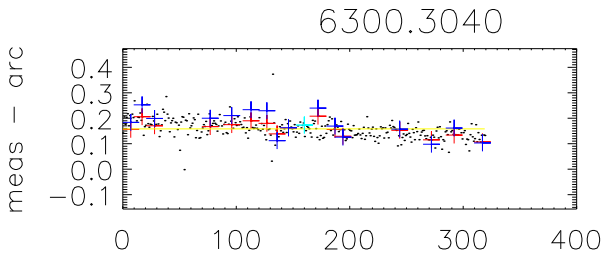

PLATE=2274 MJD=53726 Scattered Light before halo removal on sdR-r1-00035680.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.073
Max value = 44.792
Sat Feb 16 19:31:29 2008

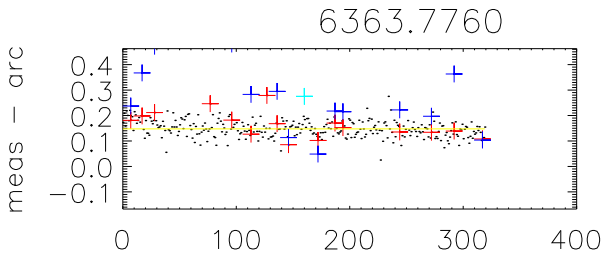

PLATE=2274 MJD=53726 Scattered Light on sdR−r1−00035680.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
12.7
9.1

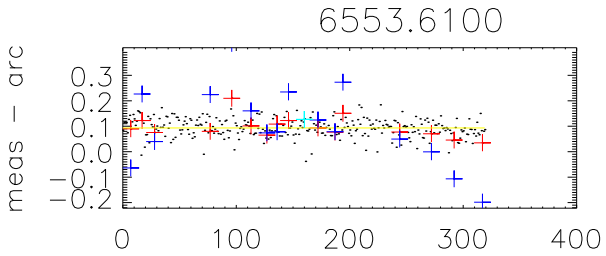

PLATE=2274 MJD=53726 Scattered Light on sdR-r1-00035680.fit
Brightness [electrons/pix]
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 6.929
Max value = 13.620
Sat Feb 16 19:33:39 2008

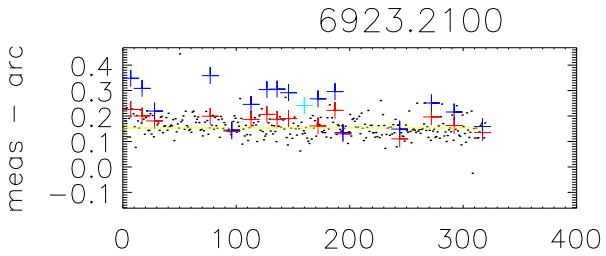

PLATE=2274 MJD=53726 Extraction chi^2 for sdR−r1−00035680.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

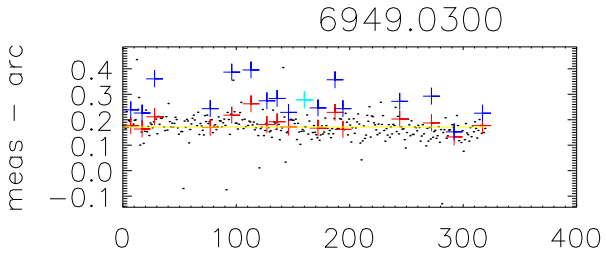

6300.3040
off: 0.17
sig: 0.011
6363.7760
off: 0.28
sig: 0.025
6553.6100
off: 0.13
sig: 0.032
6923.2100
off: 0.24
sig: 0.018
6949.0300
off: 0.28
sig: 0.017
7571.7500
off: 0.28
sig: 0.016
7794.1200
off: 0.16
sig: 0.007
7821.5100
off: 0.21
sig: 0.006
8399.1600
off: 0.24
sig: 0.005
8430.1700
off: 0.22
sig: 0.005
8885.8300
off: 0.24
sig: 0.005
8919.6100
off: 0.25
sig: 0.005

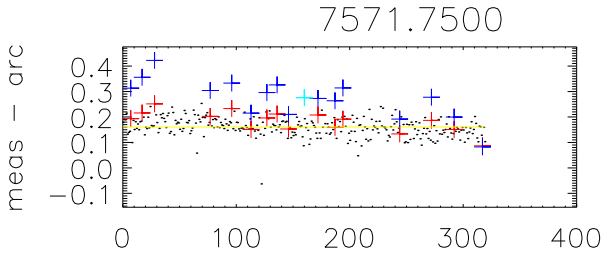

6300.3040
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

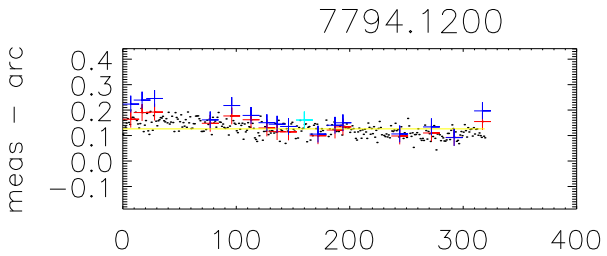

6363.7760
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

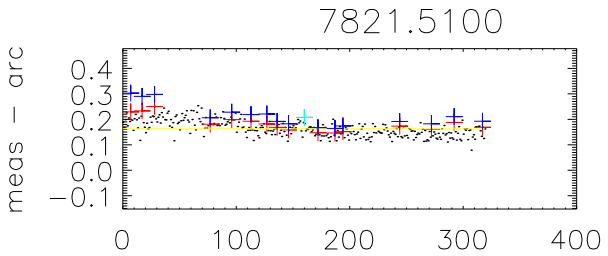

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

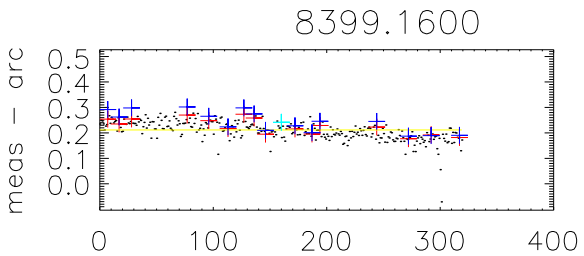

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

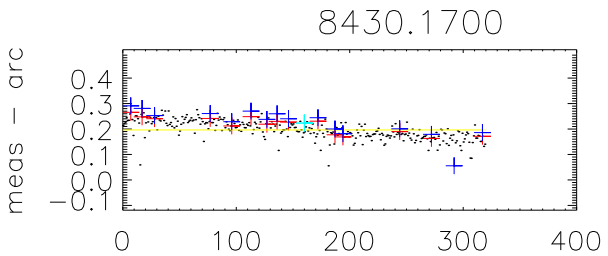

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

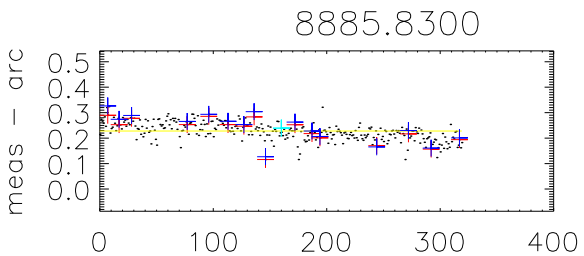

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

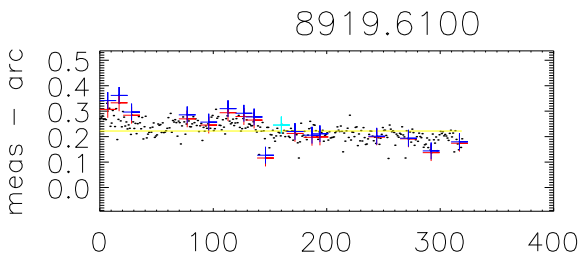

7794.1200
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

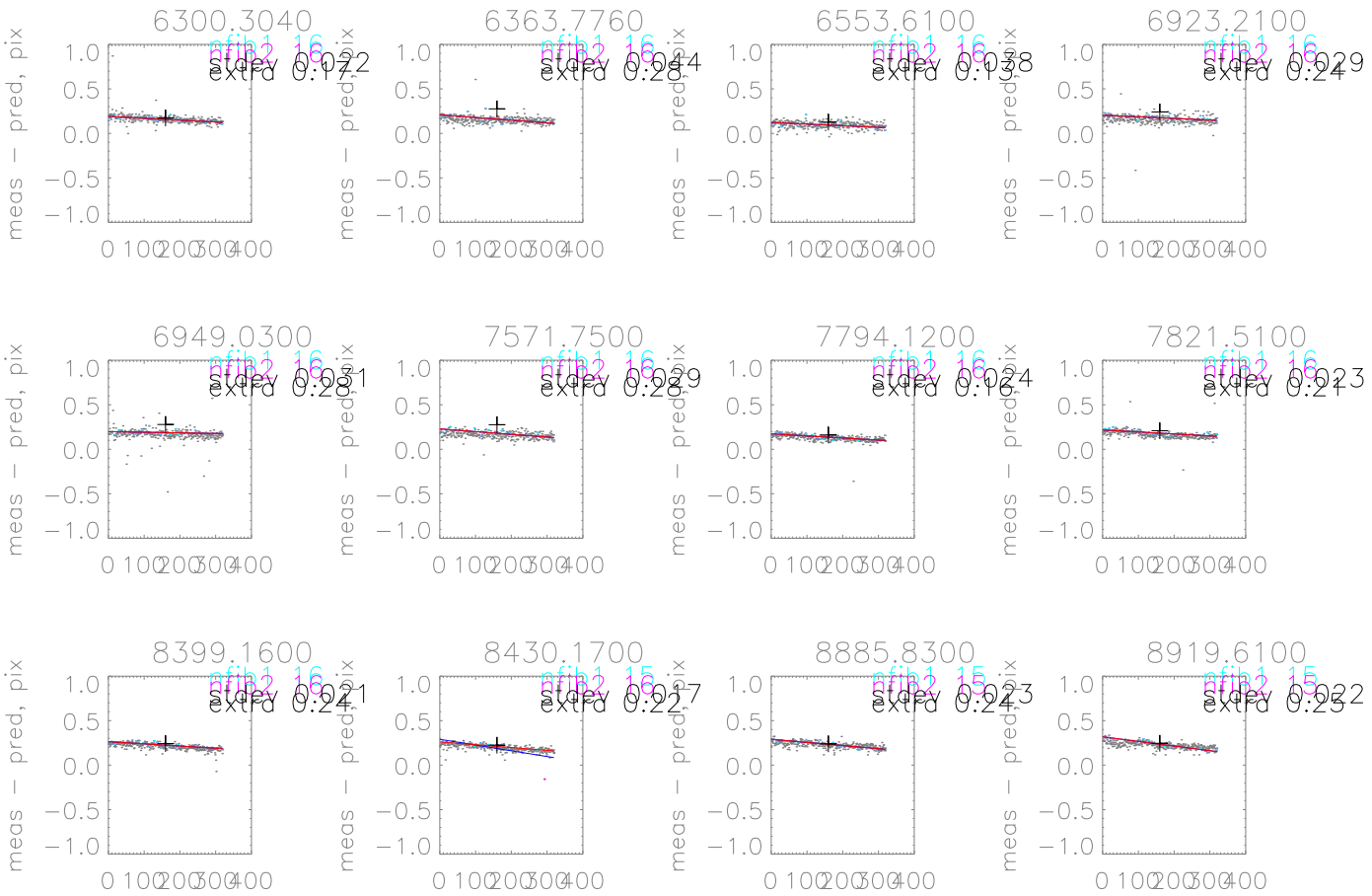

7821.5100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

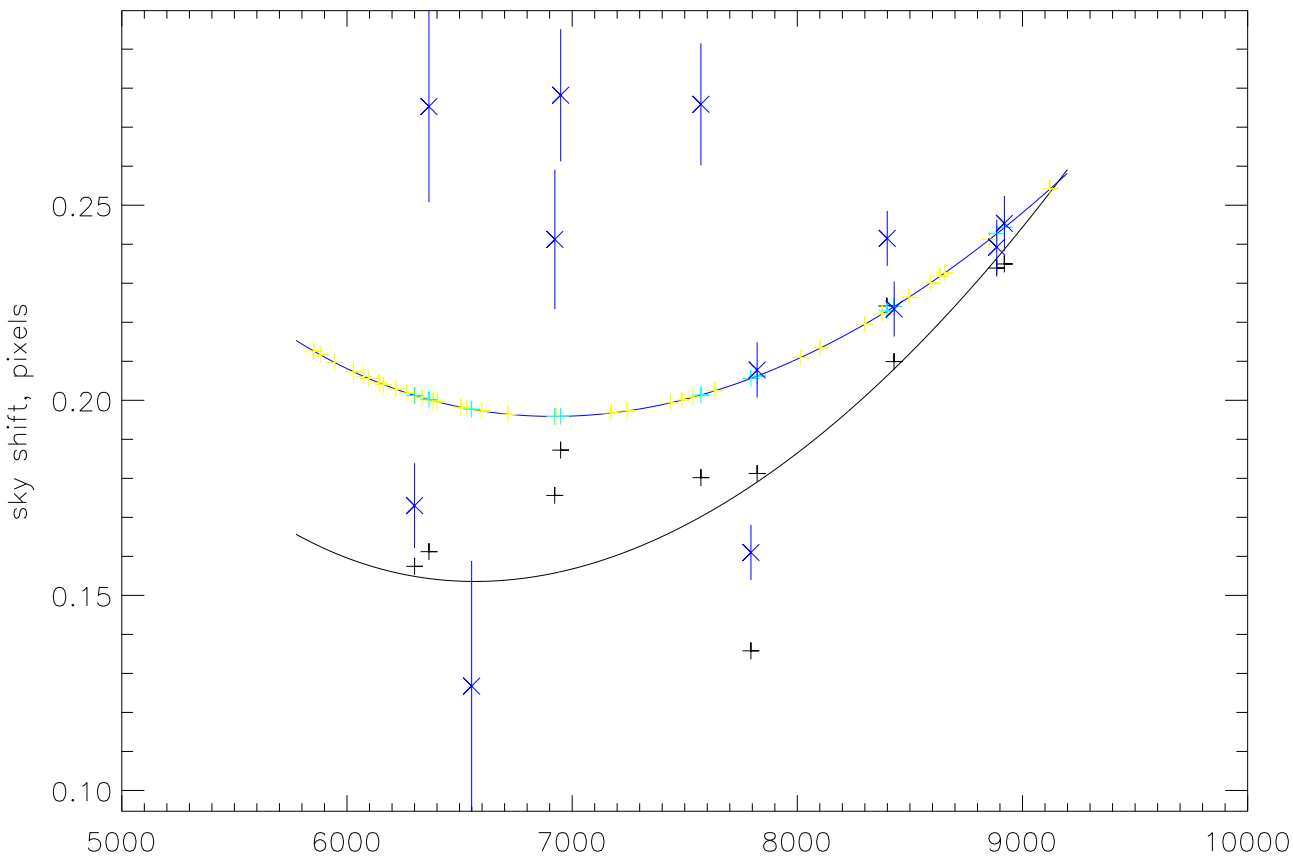

8399.1600
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400


8430.1700
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

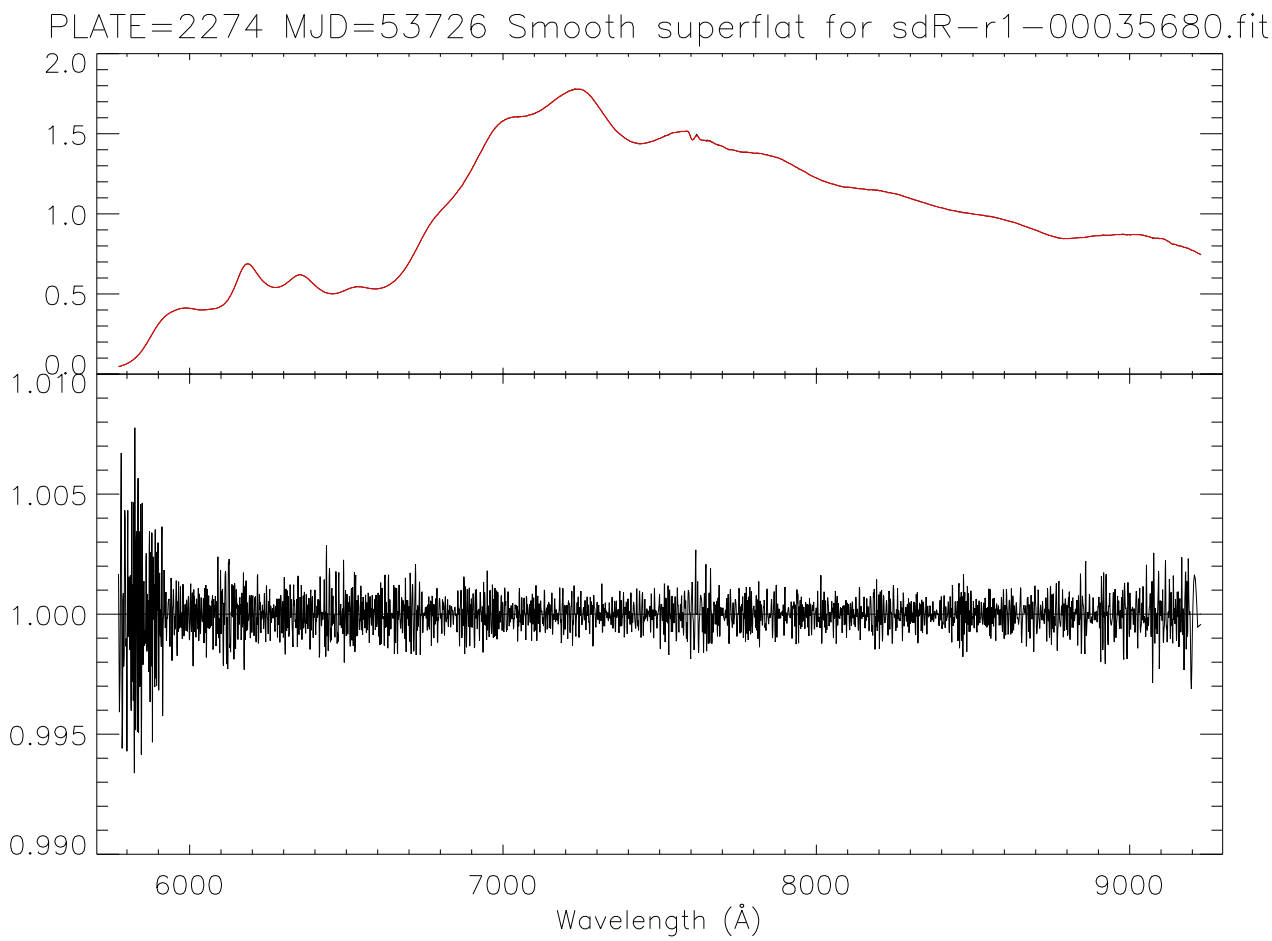

8885.8300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

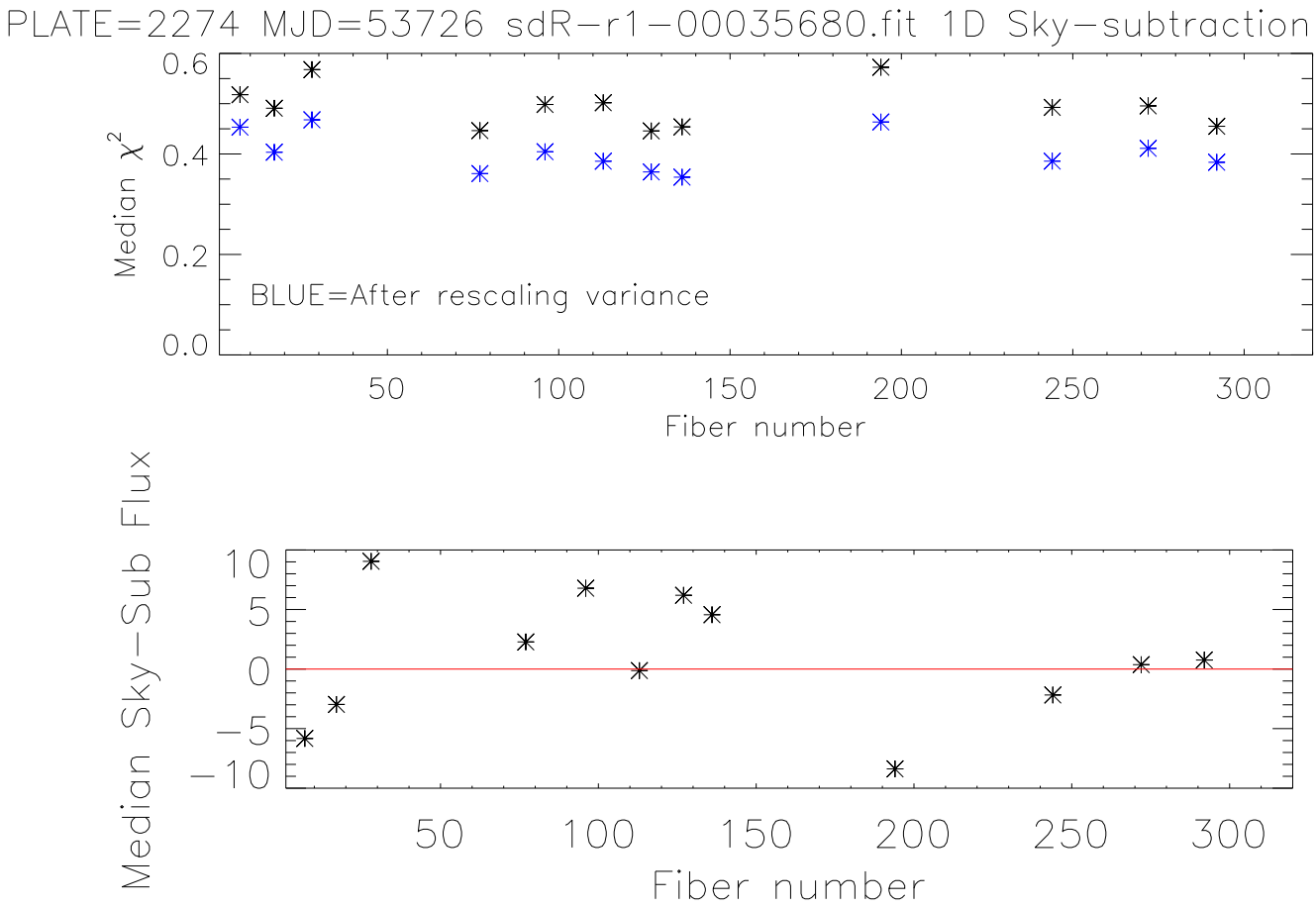

8919.6100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

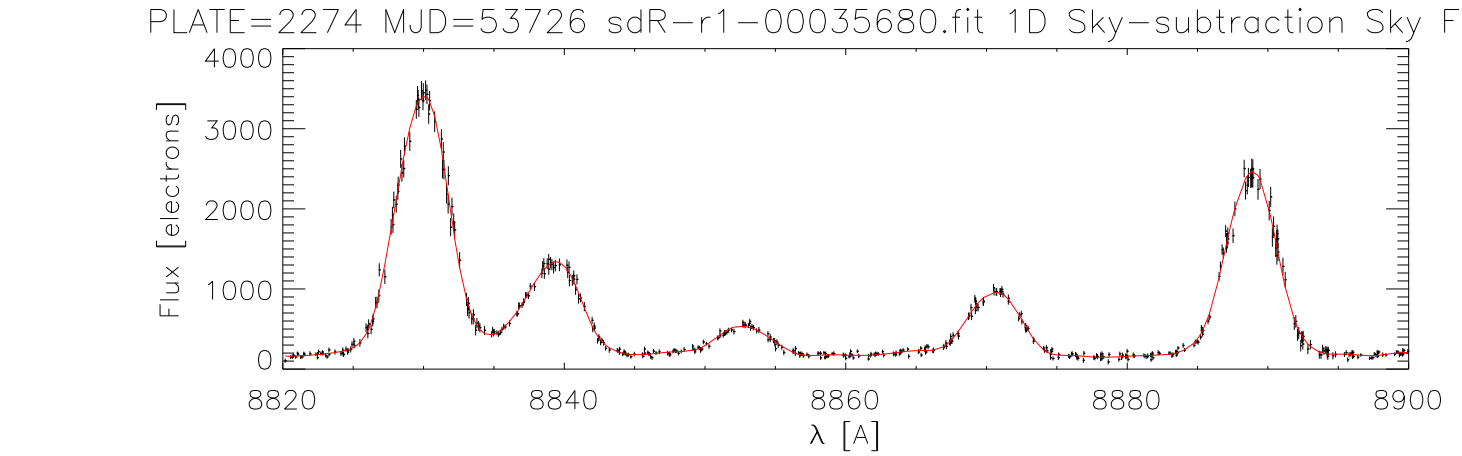

6300.3040
mfhd1 16
mfhd2 16
stdev 0.022
extra 0.172
6363.7760
mfhd1 16
mfhd2 16
stdev 0.044
extra 0.284
6553.6100
mfhd1 16
mfhd2 16
stdev 0.038
extra 0.138
6923.2100
mfhd1 16
mfhd2 16
stdev 0.029
extra 0.24
6949.0300
mfhd1 16
mfhd2 16
stdev 0.031
extra 0.281
7571.7500
mfhd1 16
mfhd2 16
stdev 0.029
extra 0.289
7794.1200
mfhd1 16
mfhd2 16
stdev 0.024
extra 0.16
7821.5100
mfhd1 16
mfhd2 16
stdev 0.023
extra 0.21
8399.1600
mfhd1 16
mfhd2 16
stdev 0.021
extra 0.24
8430.1700
mfhd1 15
mfhd2 16
stdev 0.017
extra 0.227
8885.8300
mfhd1 15
mfhd2 15
stdev 0.023
extra 0.243
8919.6100
mfhd1 15
mfhd2 15
stdev 0.022
extra 0.253
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

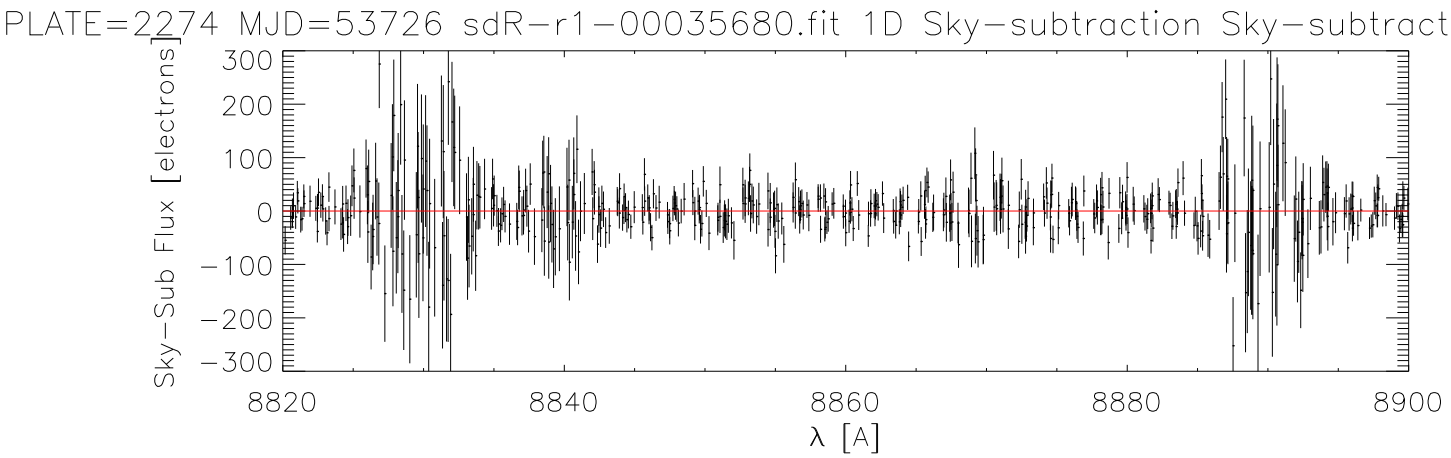

sky shift, pixels
0.25
0.20
0.15
0.10
5000
6000
7000
8000
9000
10000

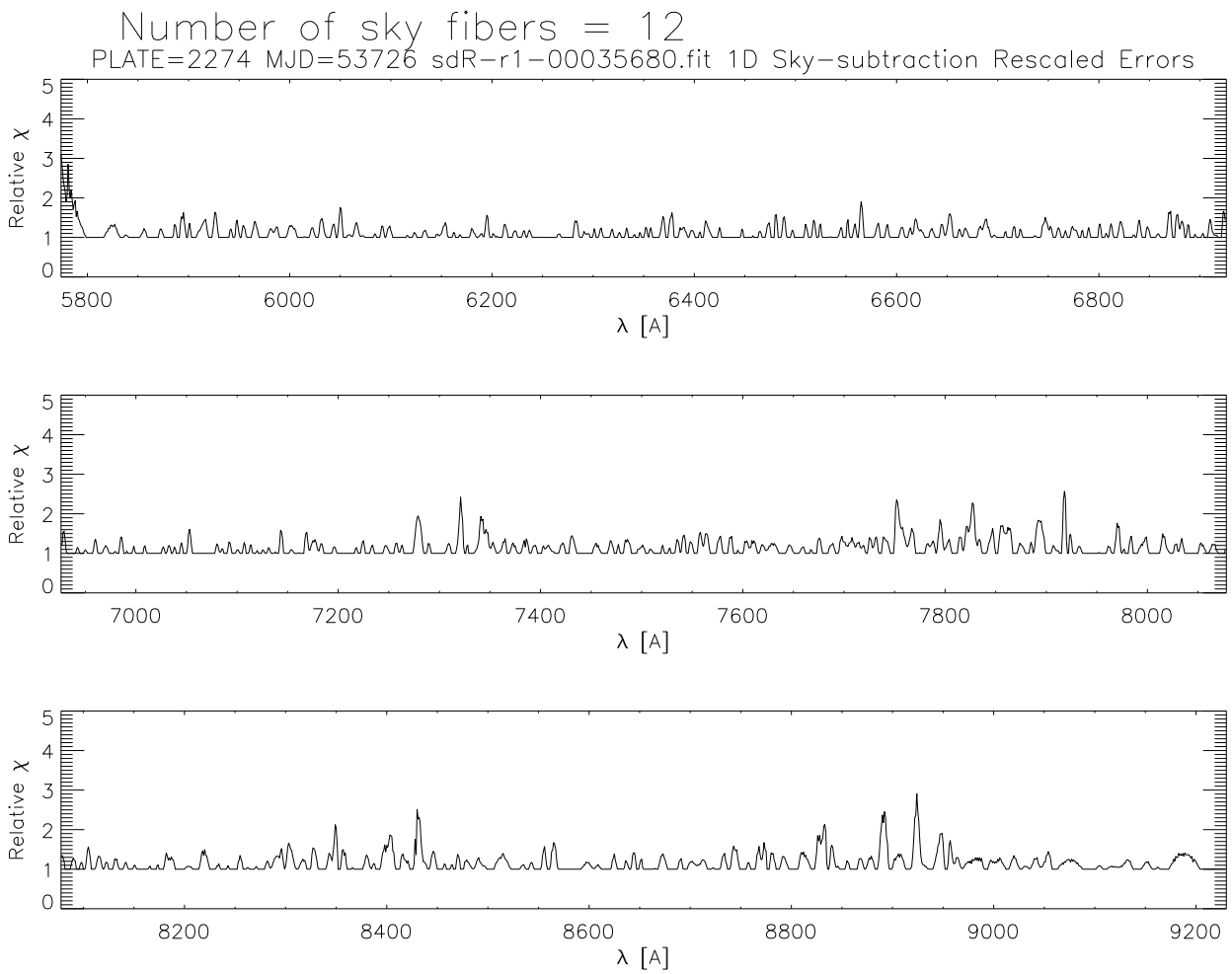
es= 0.0000

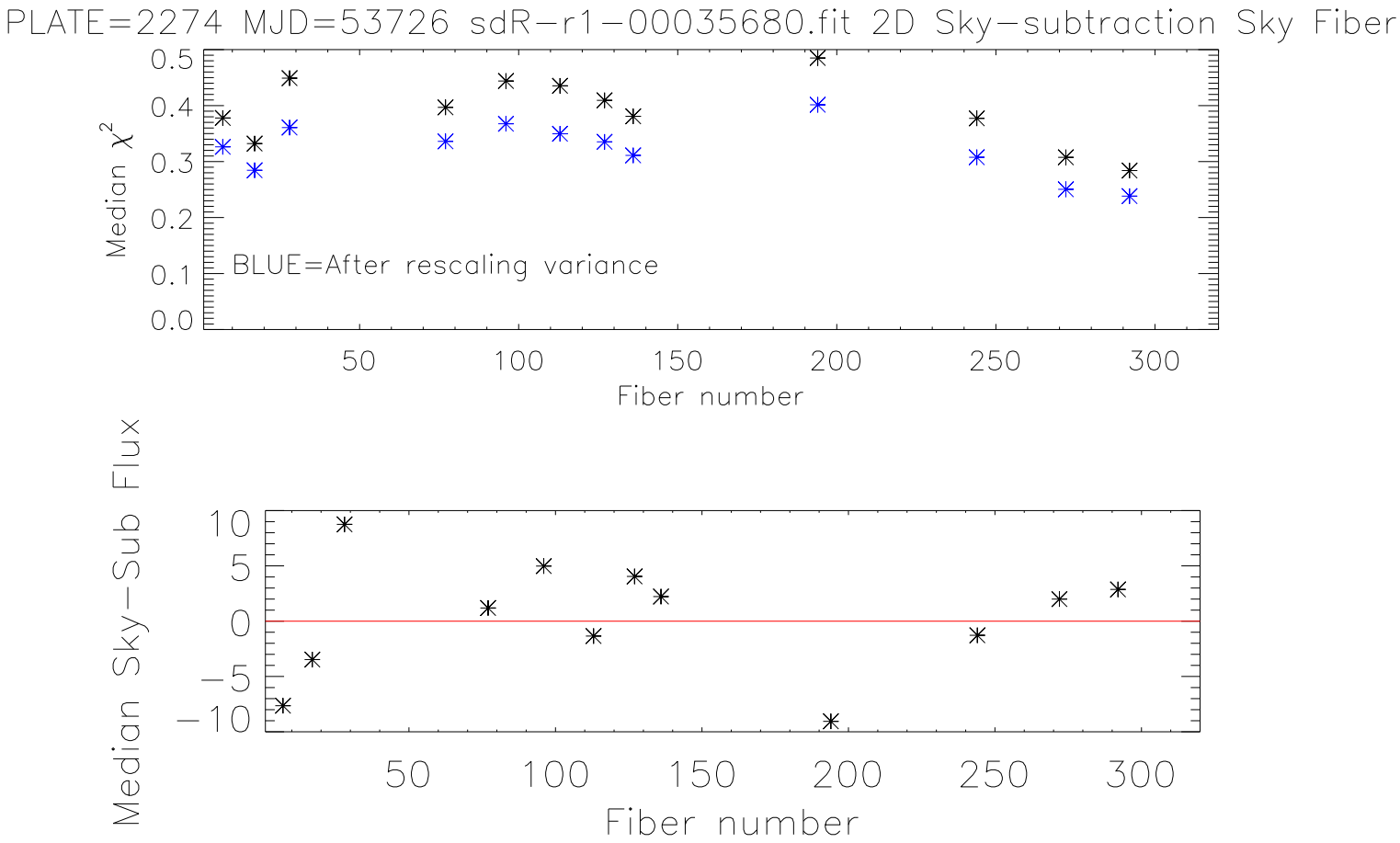

PLATE=2274 MJD=53726 Smooth superflat for sdR-r1-00035680.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

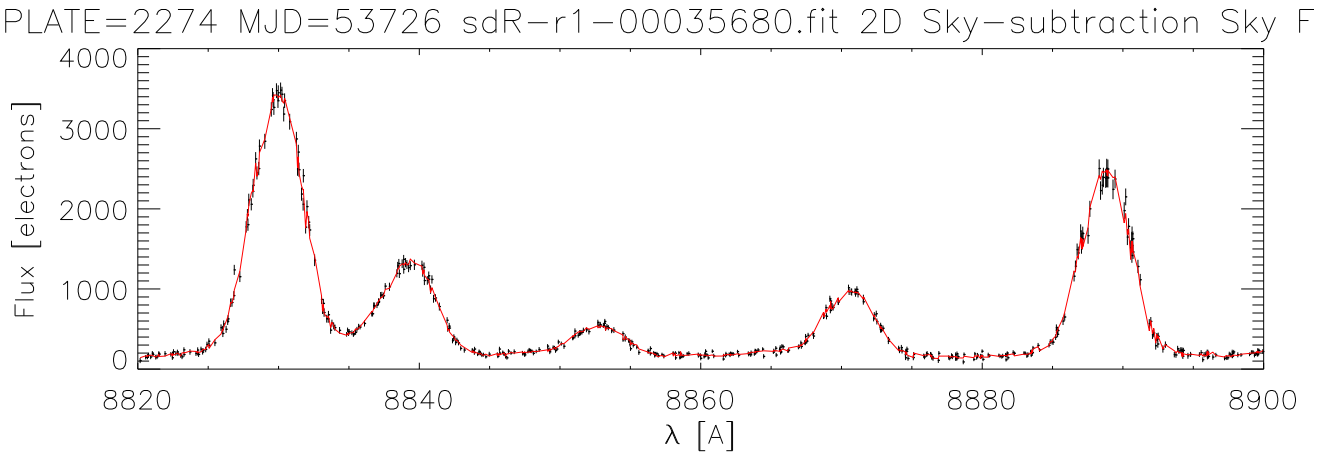

PLATE=2274 MJD=53726 sdR-r1-00035680.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

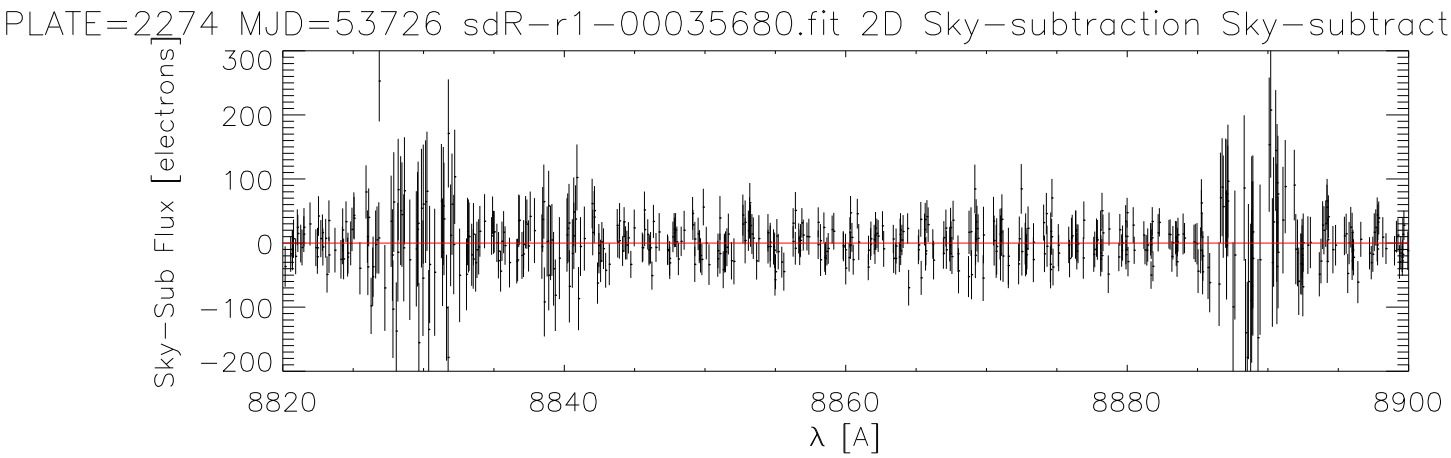

PLATE=2274 MJD=53726 sdR-r1-00035680.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

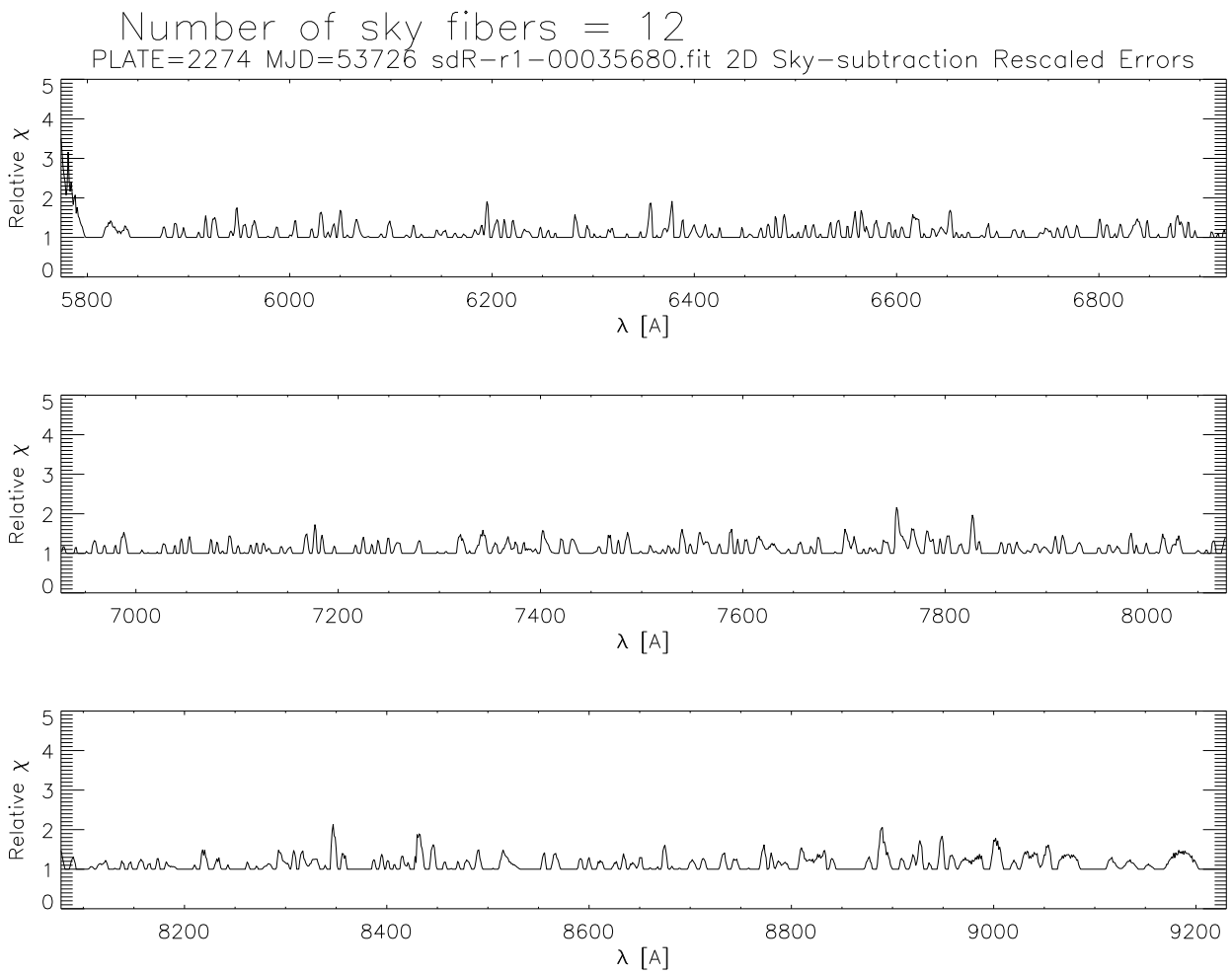

PLATE=2274 MJD=53726 sdR-r1-00035680.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

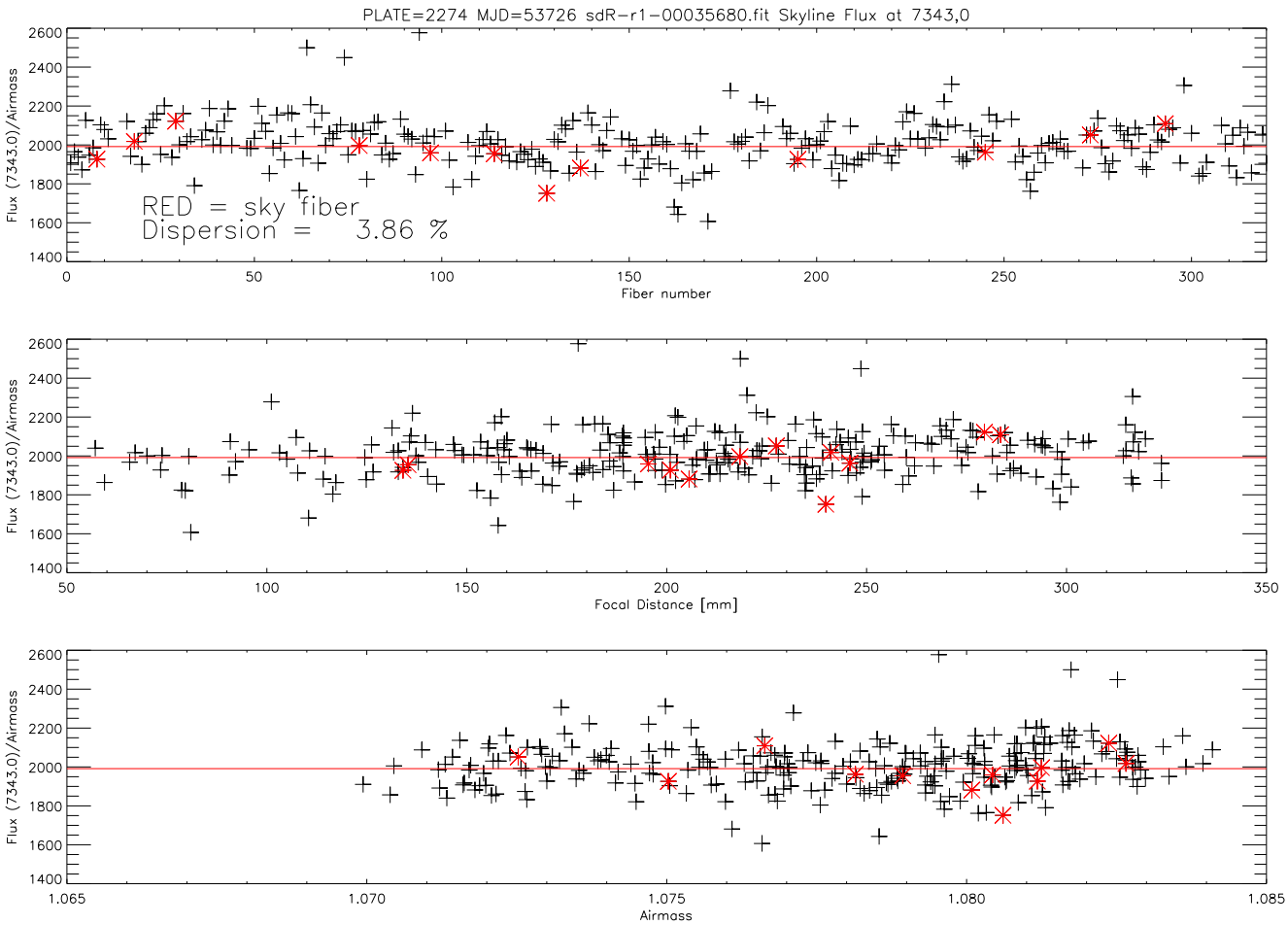

Number of sky fibers = 12
PLATE=2274 MJD=53726 sdR-r1-00035680.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

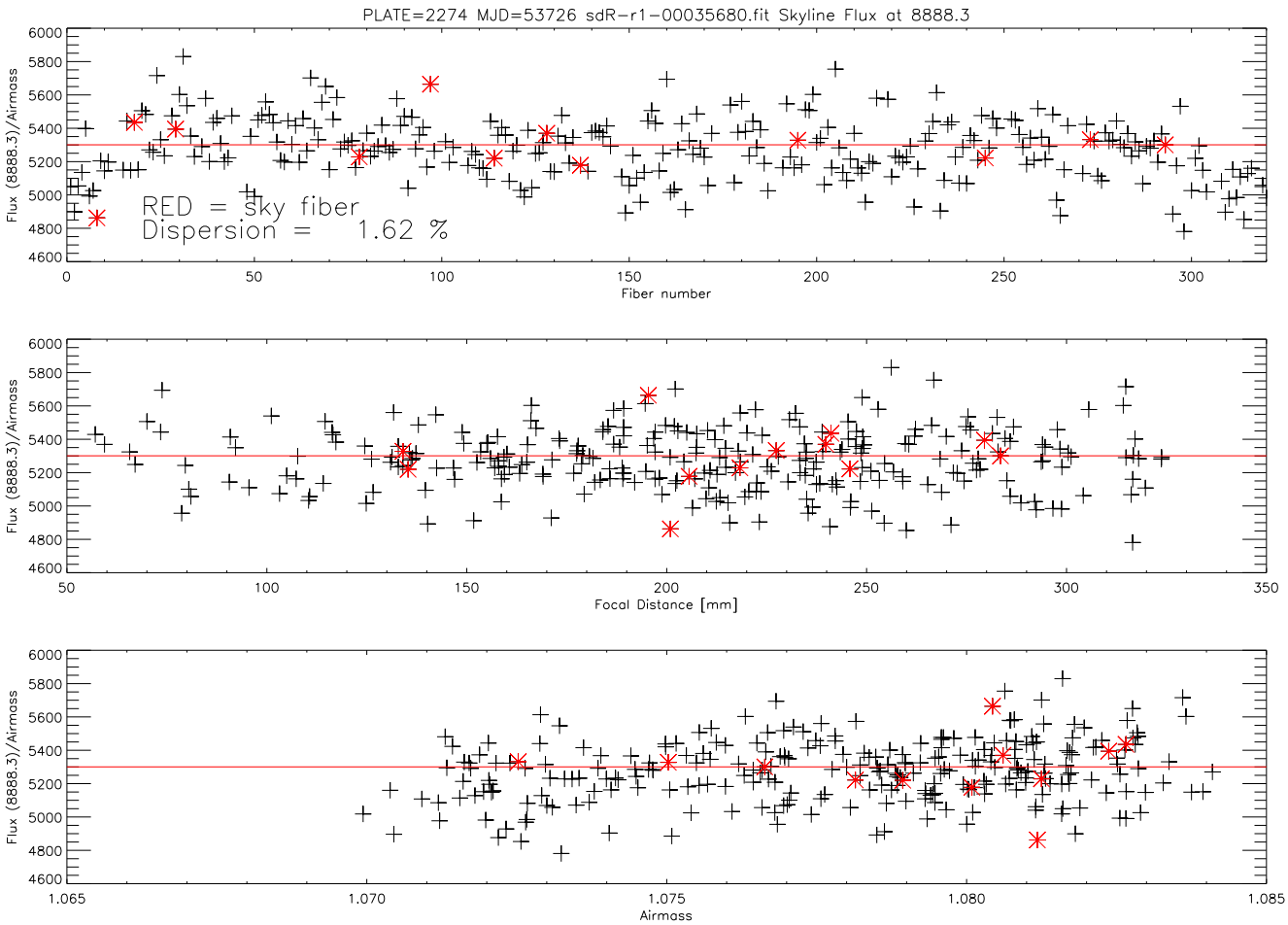

PLATE=2274 MJD=53726 sdR-r1-00035680.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

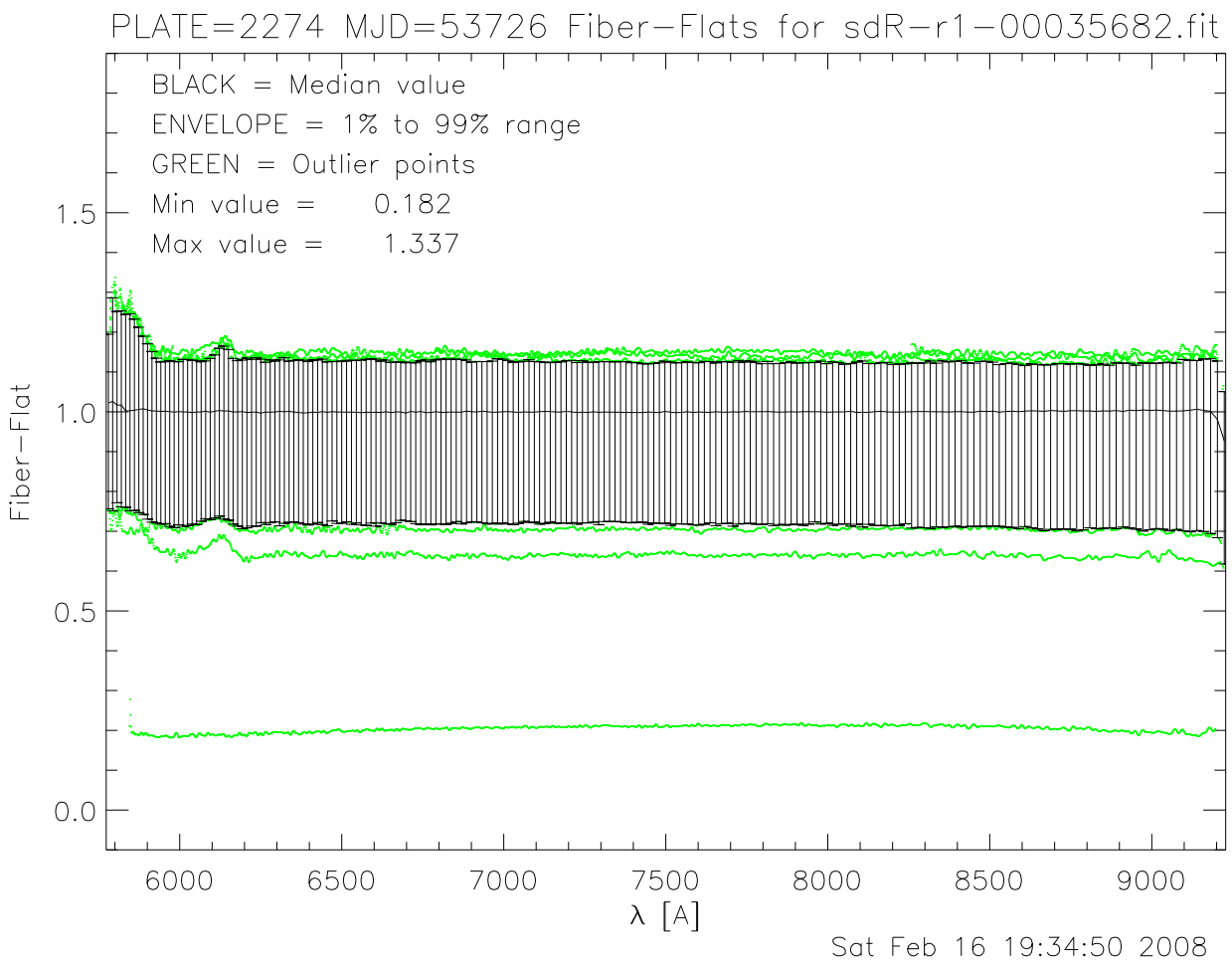

PLATE=2274 MJD=53726 sdR-r1-00035680.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

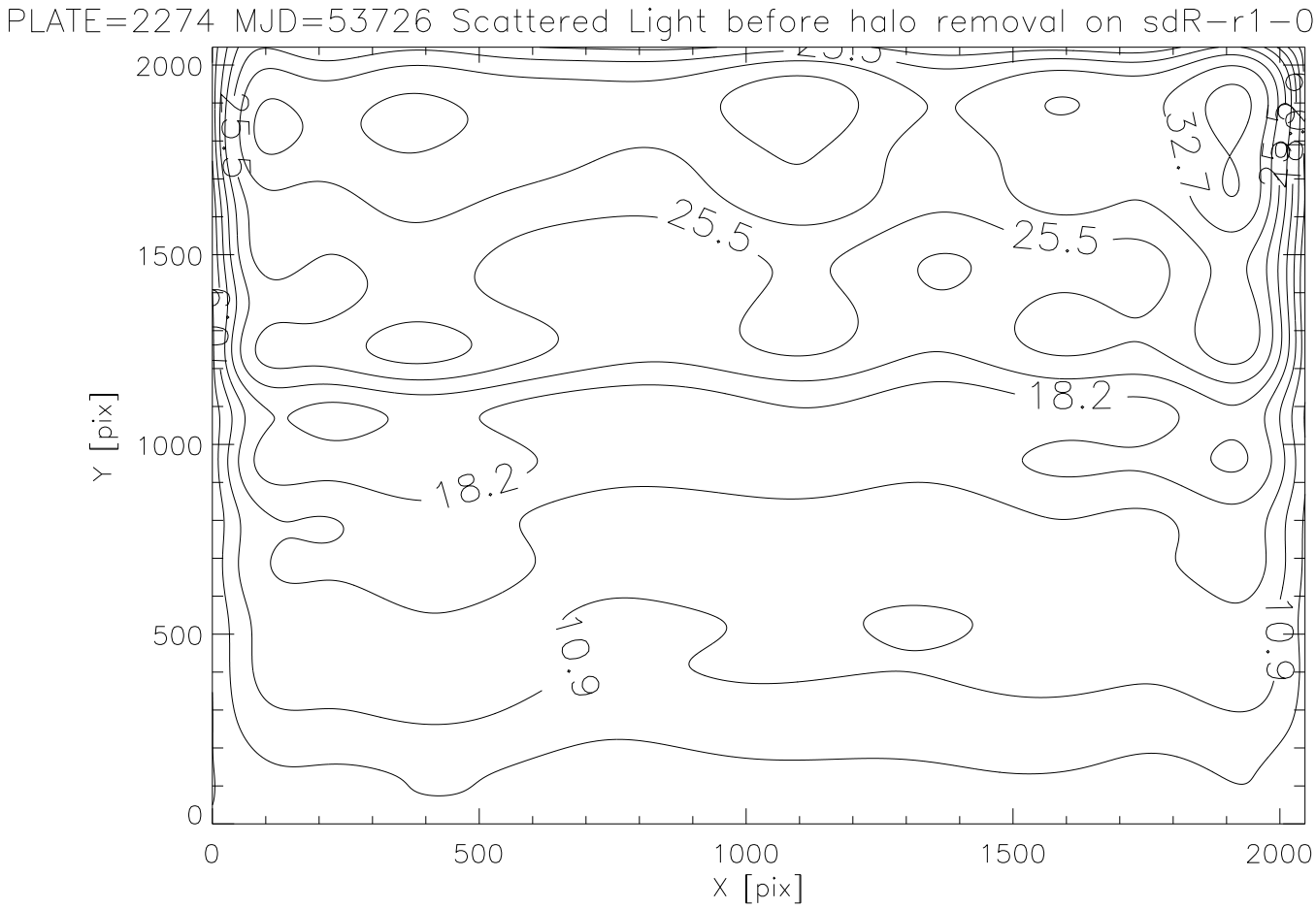

PLATE=2274 MJD=53726 sdR-r1-00035680.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

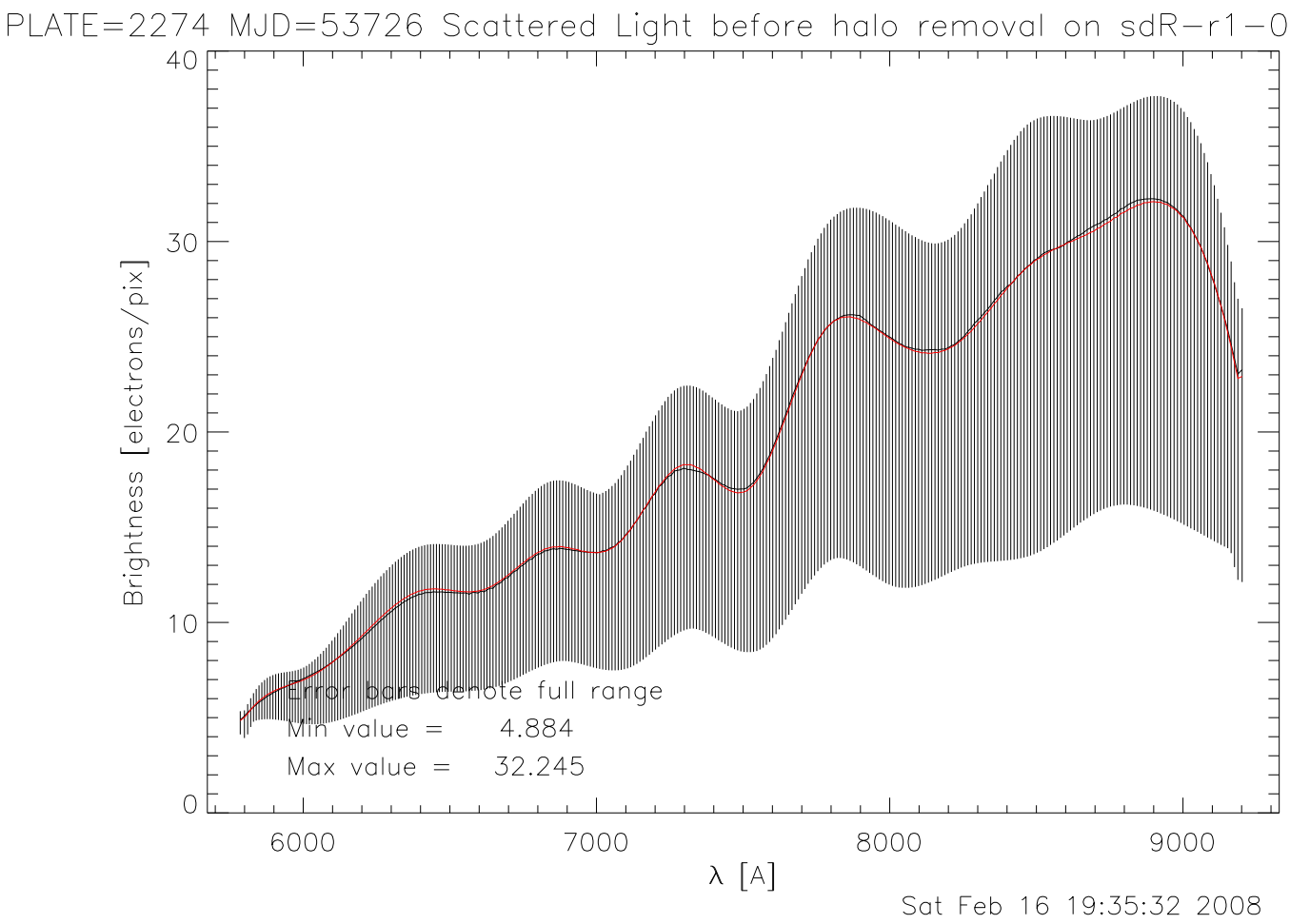

Number of sky fibers = 12
PLATE=2274 MJD=53726 sdR-r1-00035680.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

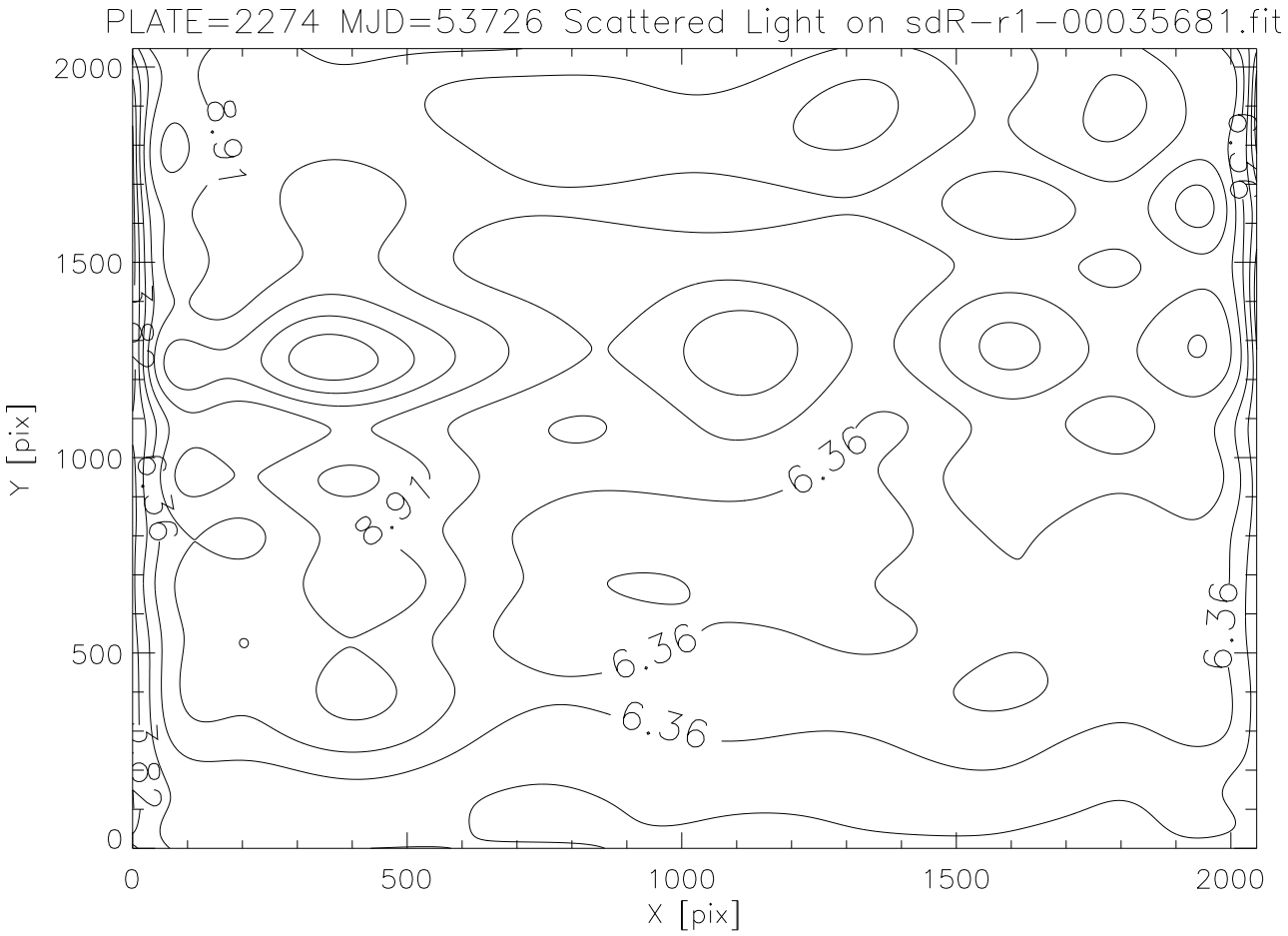

PLATE=2274 MJD=53726 sdR-r1-00035680.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.86 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

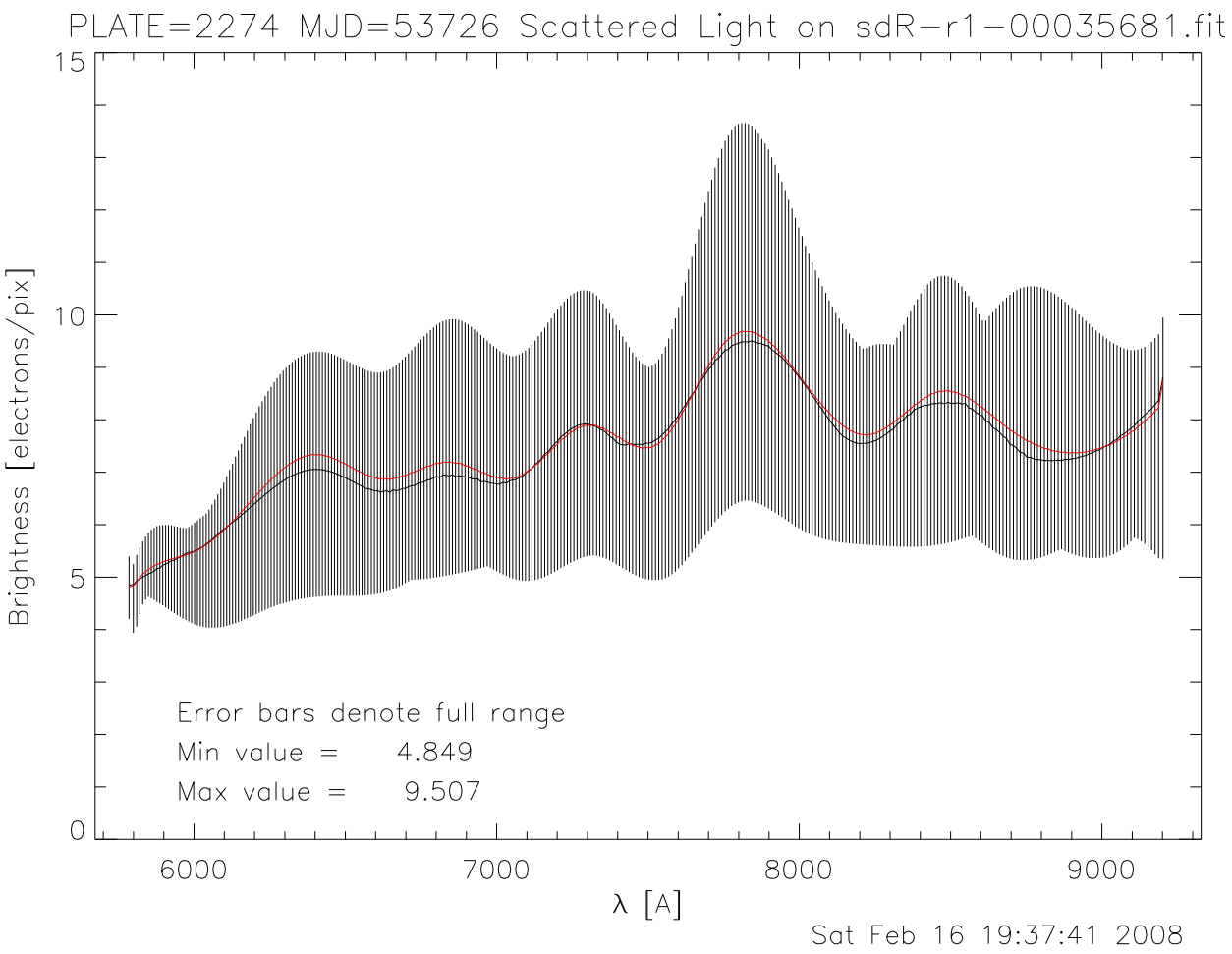

PLATE=2274 MJD=53726 sdR-r1-00035680.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.62 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

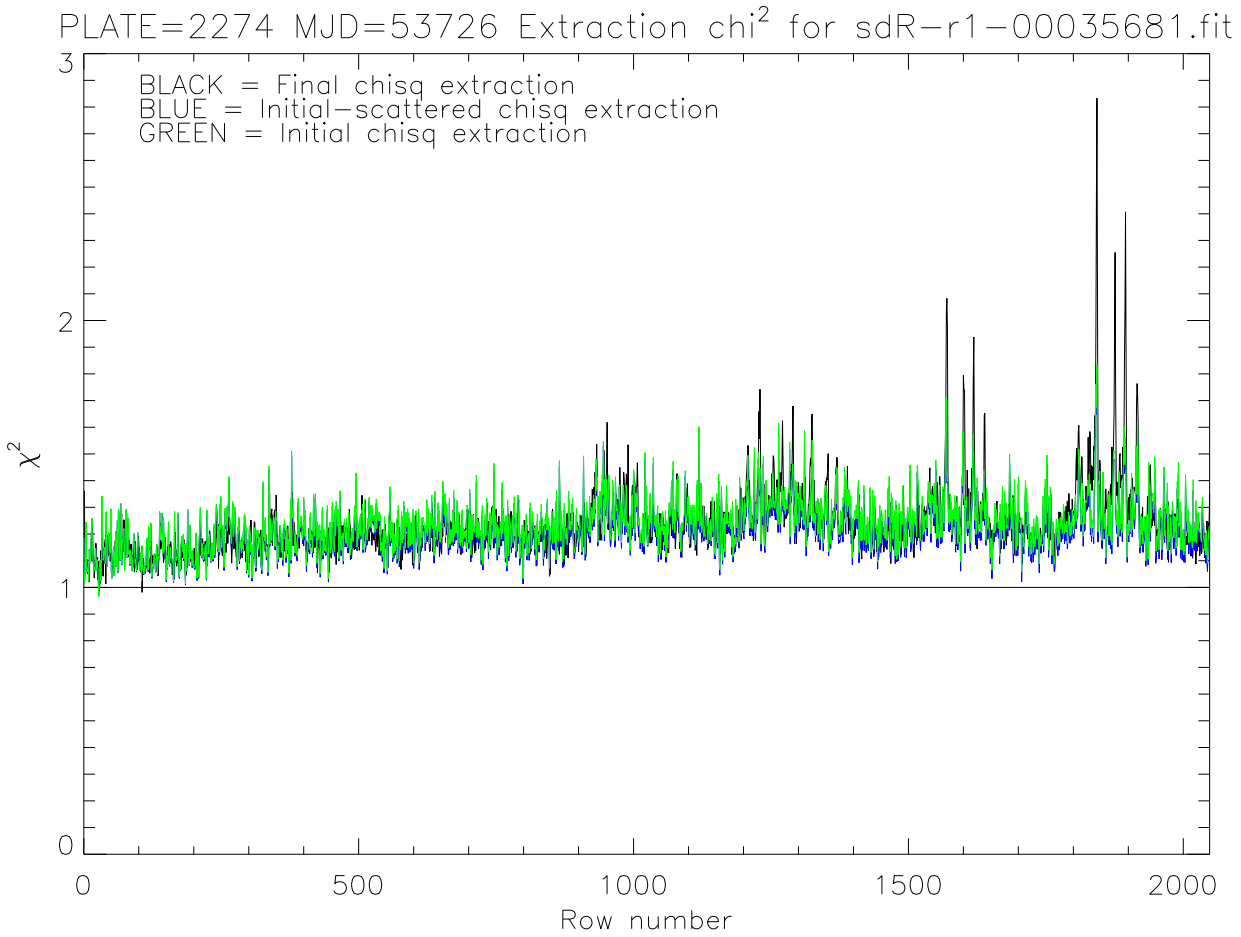

PLATE=2274 MJD=53726 Fiber−Flats for sdR−r1−00035682.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.182
Max value = 1.337
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sat Feb 16 19:34:50 2008

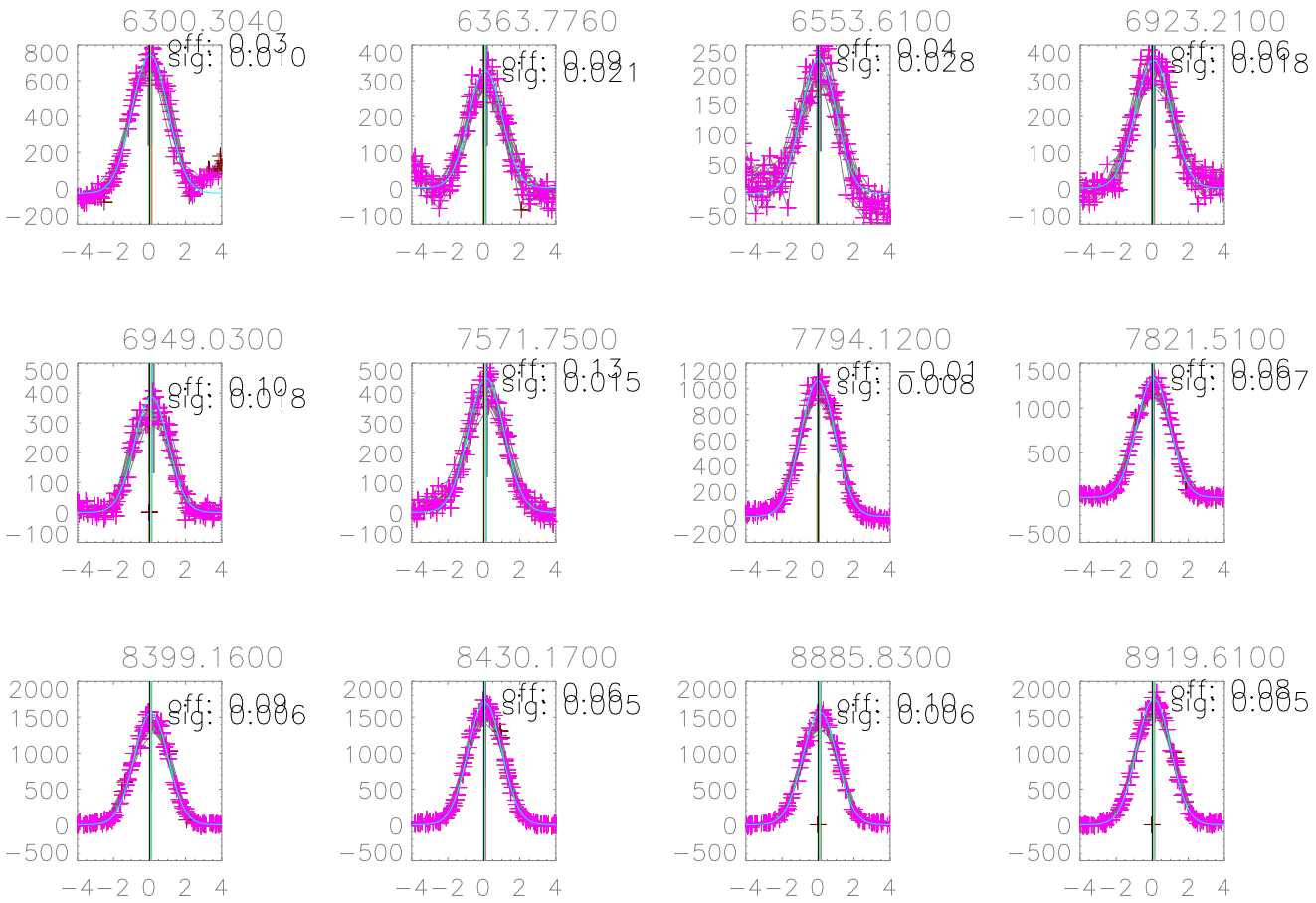

PLATE=2274 MJD=53726 Scattered Light before halo removal on sdR-r1-00035681.fi
25.5
32.7
18.2
10.9
Y [pix]
X [pix]
0
500
1000
1500
2000

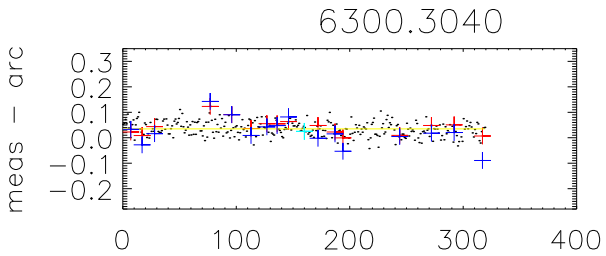

PLATE=2274 MJD=53726 Scattered Light before halo removal on sdR-r1-00035681.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.884
Max value = 32.245
Sat Feb 16 19:35:32 2008

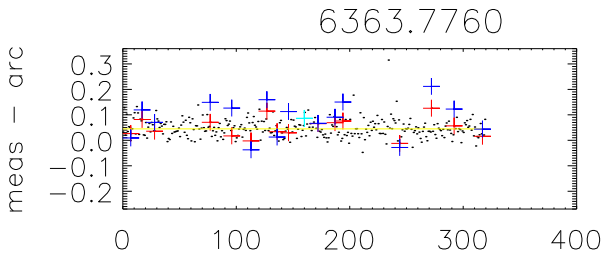

PLATE=2274 MJD=53726 Scattered Light on sdR-r1-00035681.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
8.91
6.36

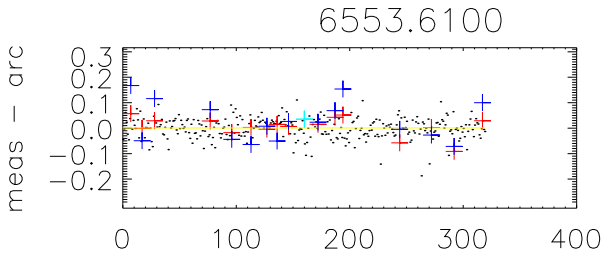

PLATE=2274 MJD=53726 Scattered Light on sdR-r1-00035681.fit
Brightness [electrons/pix]
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 4.849
Max value = 9.507
Sat Feb 16 19:37:41 2008

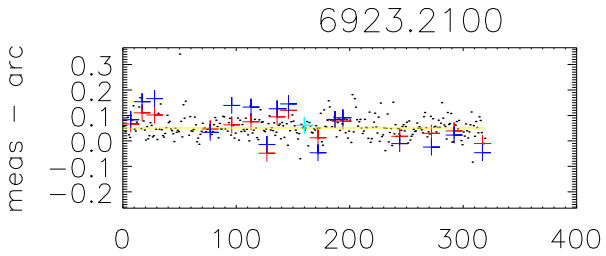

PLATE=2274 MJD=53726 Extraction chi^2 for sdR−r1−00035681.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
0
500
1000
1500
2000
Row number

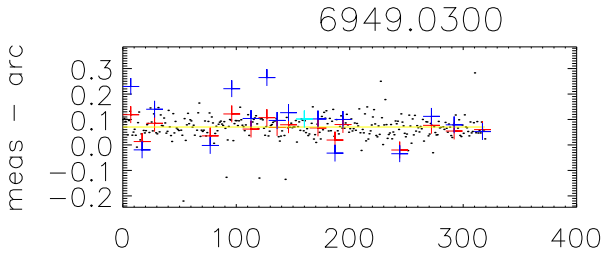

6300.3040
off: 0.03
sig: 0.010
6363.7760
off: 0.08
sig: 0.021
6553.6100
off: 0.04
sig: 0.028
6923.2100
off: 0.06
sig: 0.018
6949.0300
off: 0.10
sig: 0.018
7571.7500
off: 0.13
sig: 0.015
7794.1200
off: −0.01
sig: 0.008
7821.5100
off: 0.06
sig: 0.007
8399.1600
off: 0.09
sig: 0.006
8430.1700
off: 0.06
sig: 0.005
8885.8300
off: 0.10
sig: 0.006
8919.6100
off: 0.08
sig: 0.005

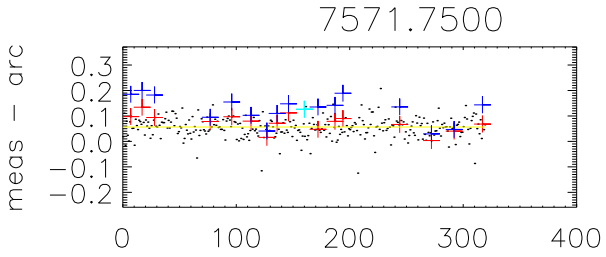

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

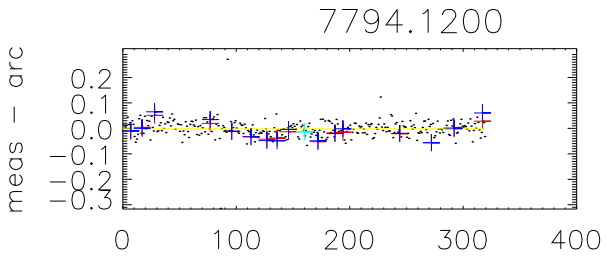

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

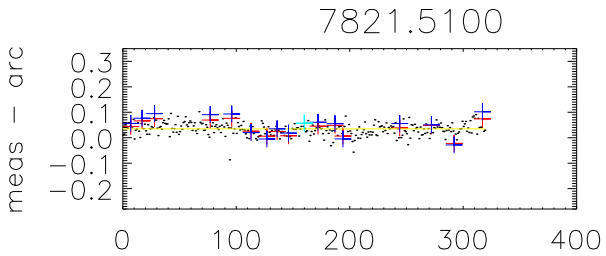

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

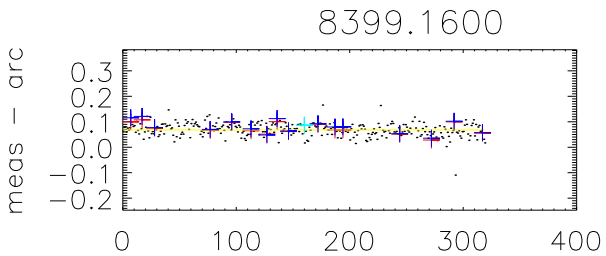

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

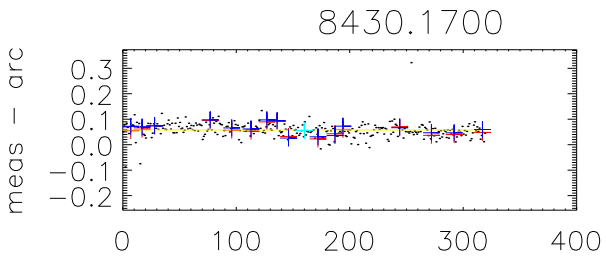

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

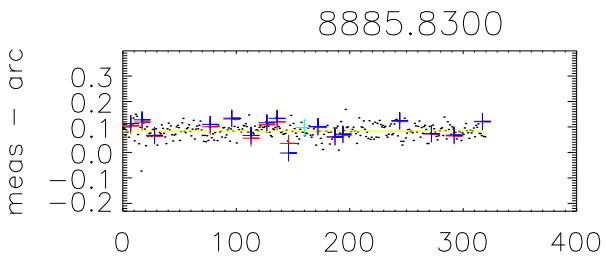

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

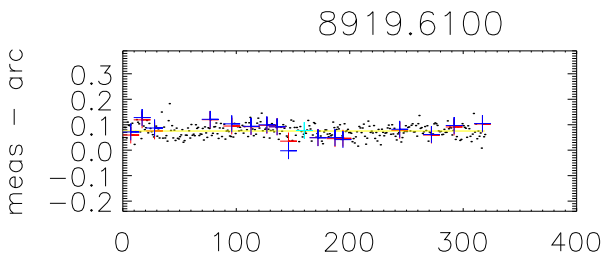

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

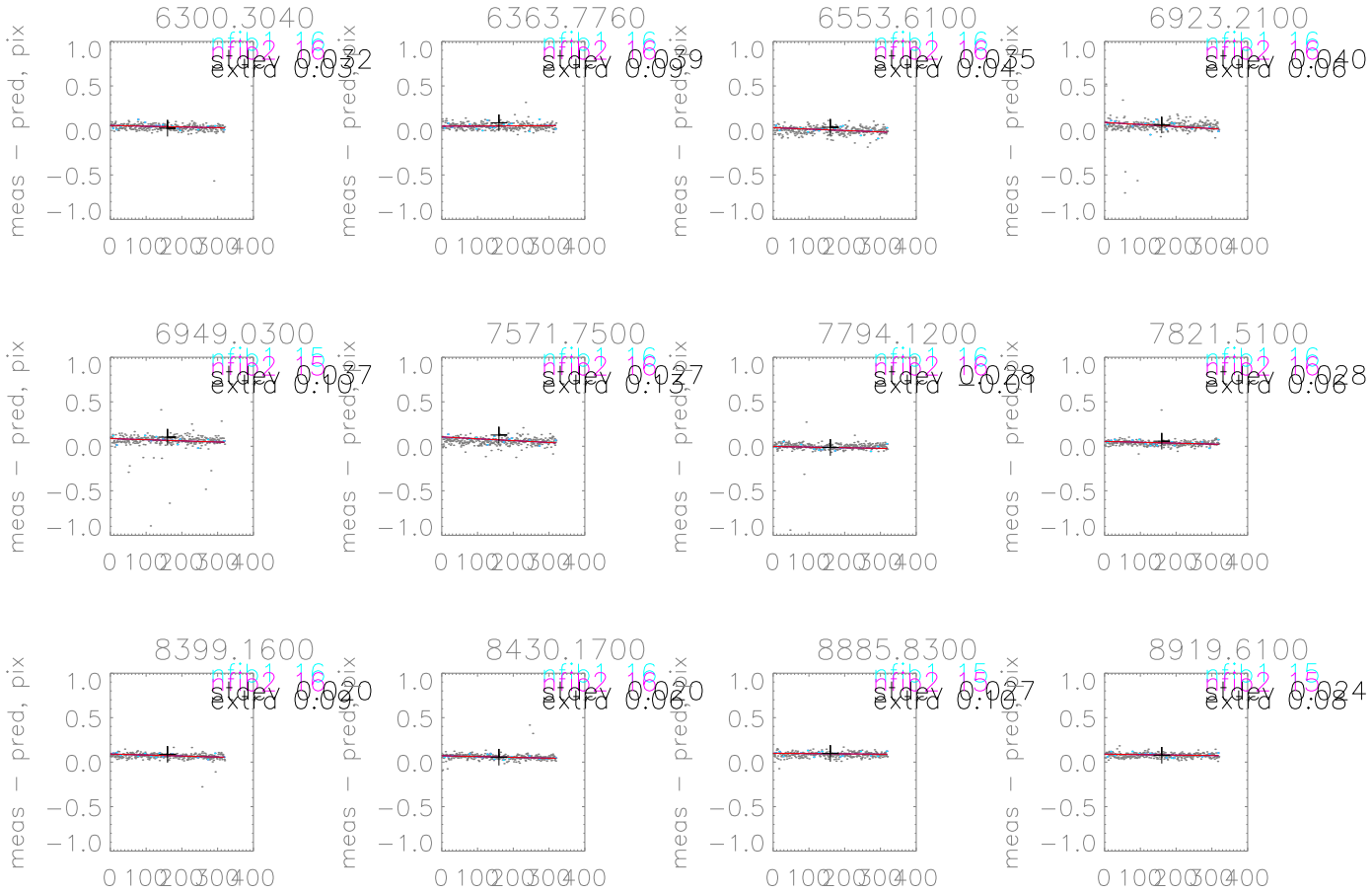

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

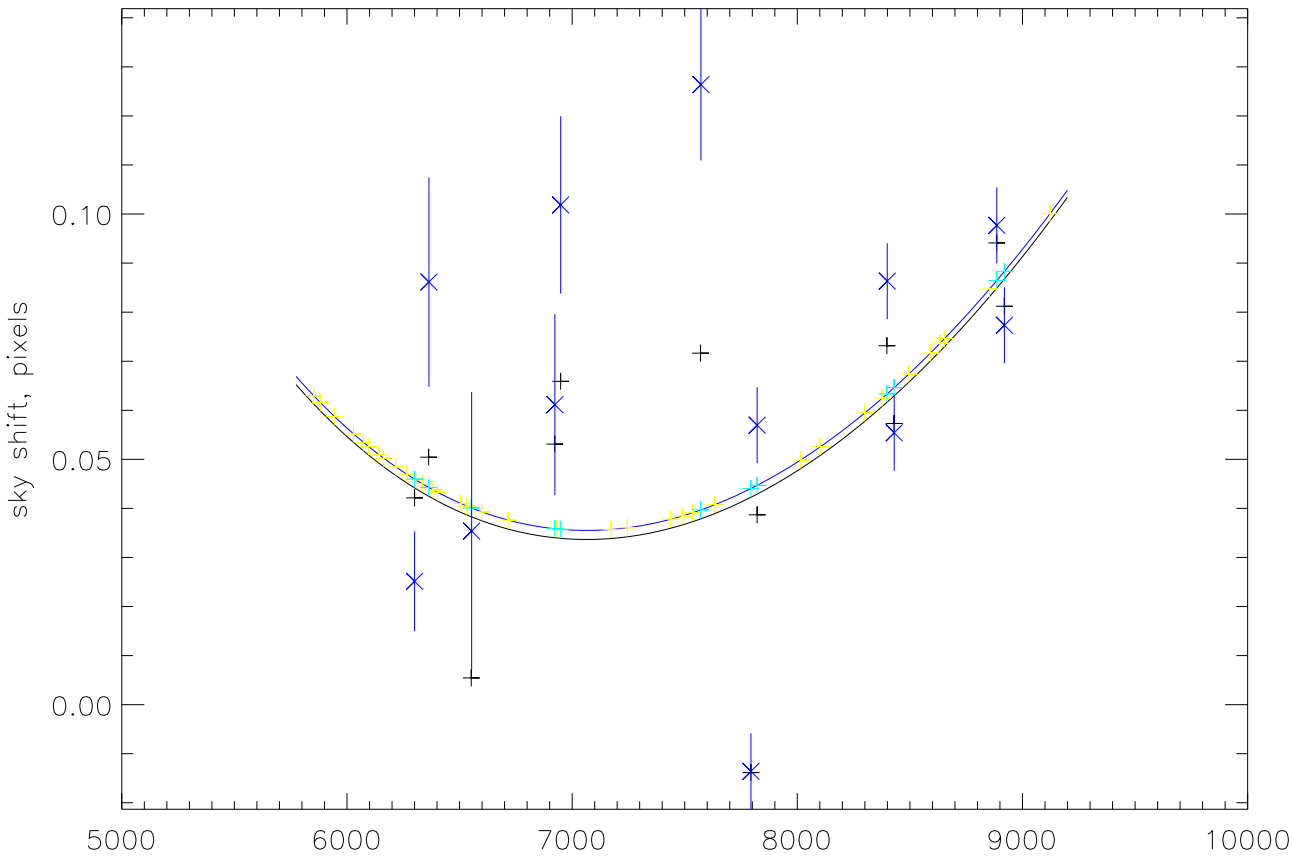

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


8430.1700
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

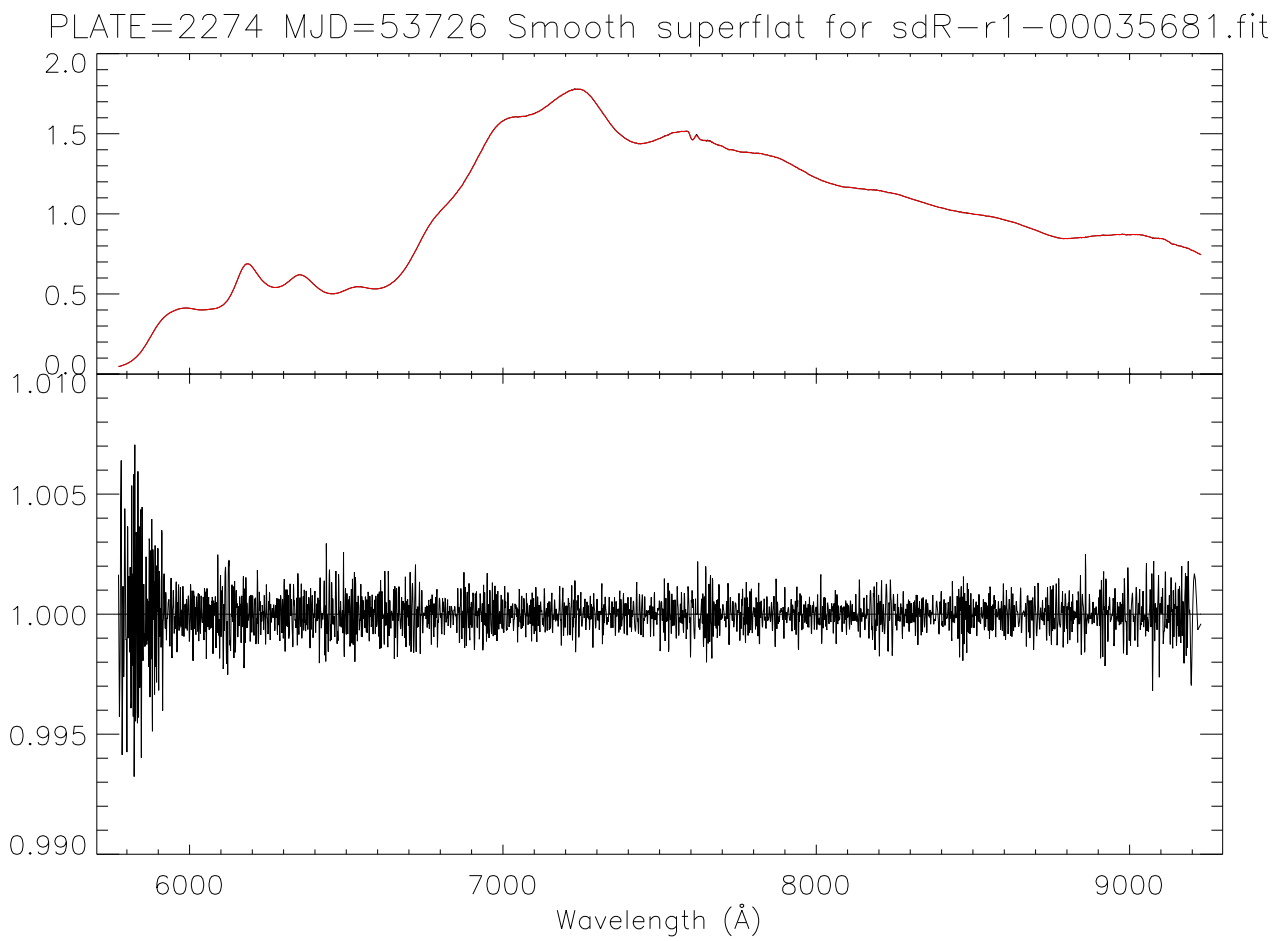

8885.8300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

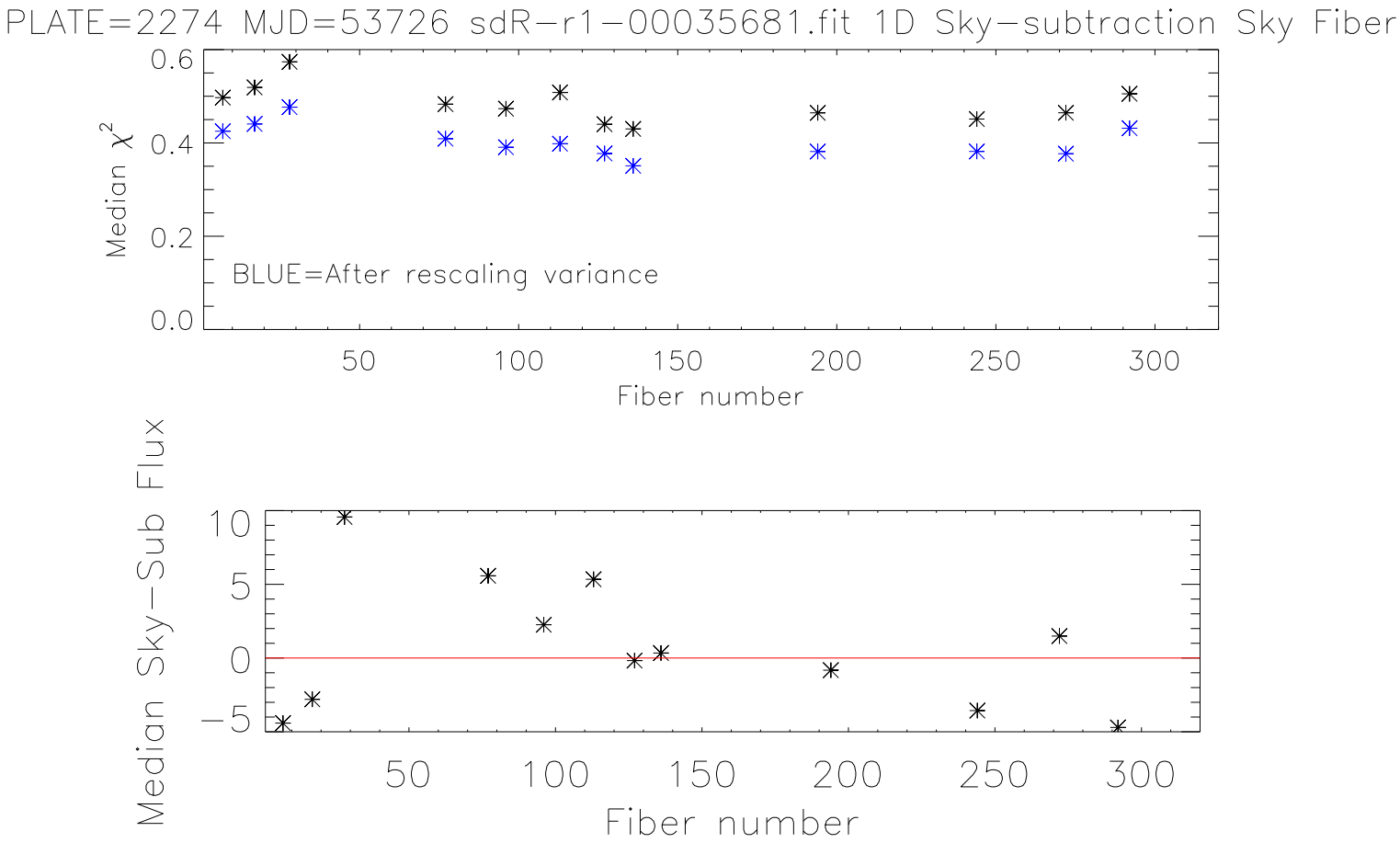

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

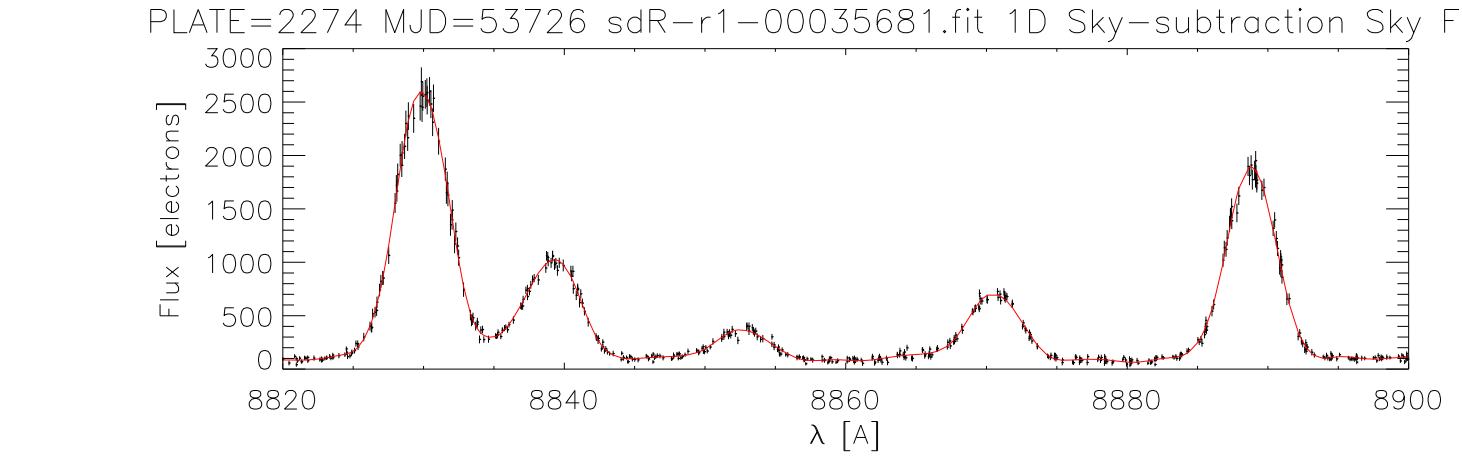

6300.3040
mfib1 16
mfib2 16
stdev 0.032
extra 0.032
6363.7760
mfib1 16
mfib2 16
stdev 0.039
extra 0.099
6553.6100
mfib1 16
mfib2 16
stdev 0.045
extra 0.045
6923.2100
mfib1 16
mfib2 16
stdev 0.040
extra 0.06
6949.0300
mfib1 15
mfib2 16
stdev 0.037
extra 0.10
7571.7500
mfib1 16
mfib2 16
stdev 0.027
extra 0.13
7794.1200
mfib1 16
mfib2 16
stdev 0.028
extra −0.01
7821.5100
mfib1 16
mfib2 16
stdev 0.028
extra 0.06
8399.1600
mfib1 16
mfib2 16
stdev 0.020
extra 0.09
8430.1700
mfib1 16
mfib2 16
stdev 0.020
extra 0.06
8885.8300
mfib1 15
mfib2 16
stdev 0.027
extra 0.10
8919.6100
mfib1 15
mfib2 16
stdev 0.024
extra 0.08
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

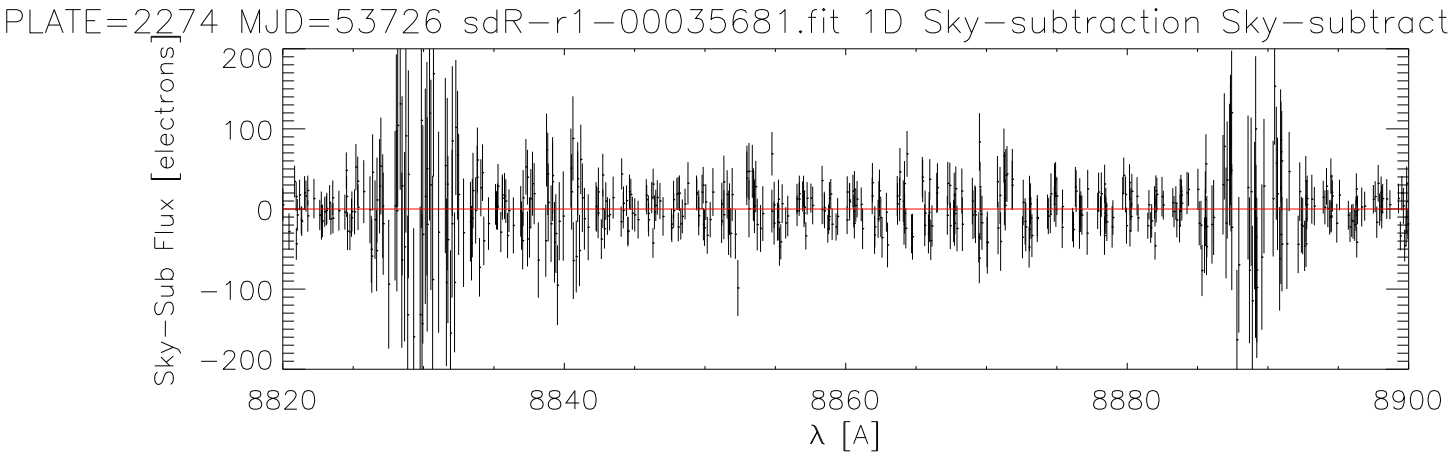

sky shift, pixels
0.10
0.05
0.00
5000
6000
7000
8000
9000
10000

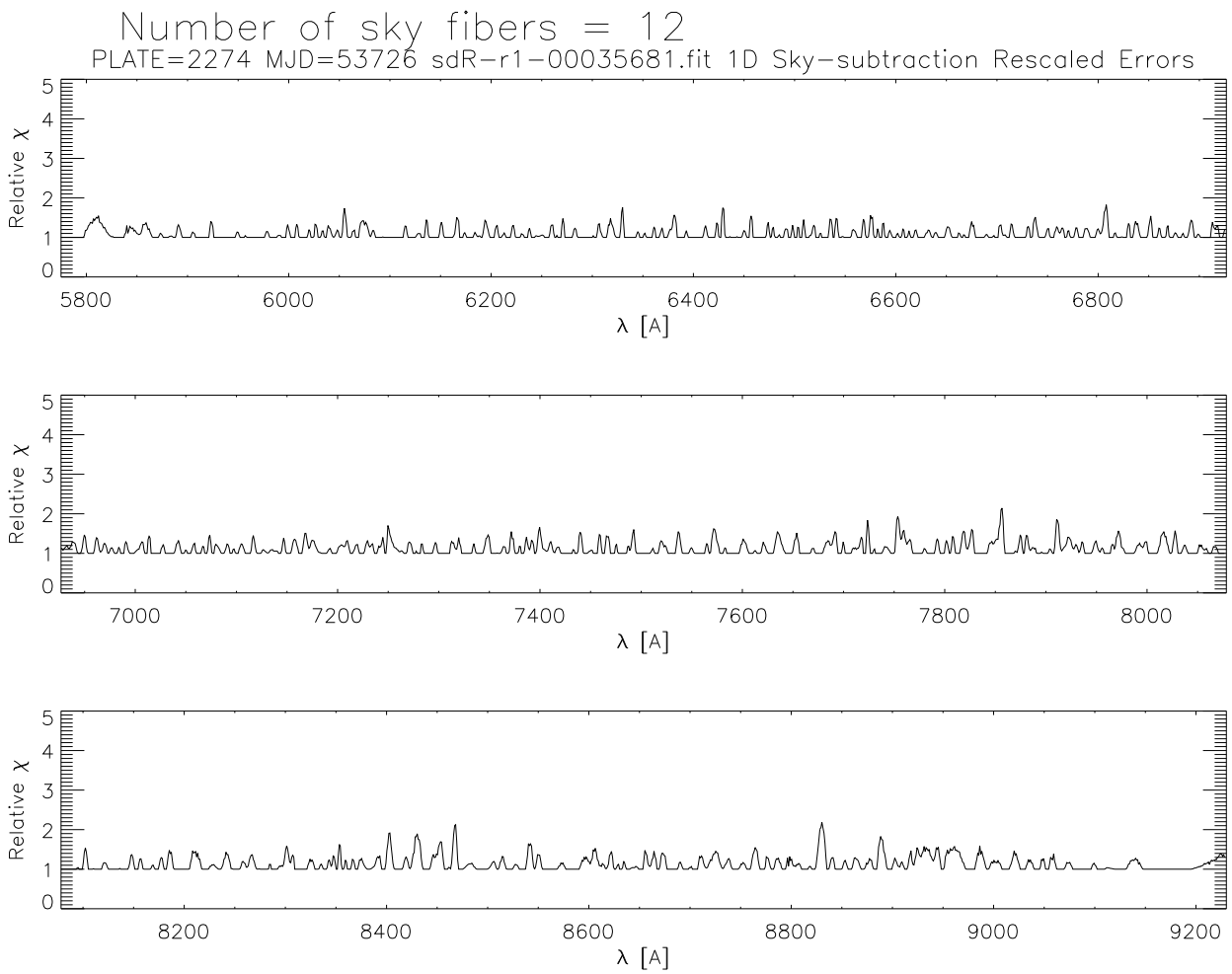
es= 0.0000

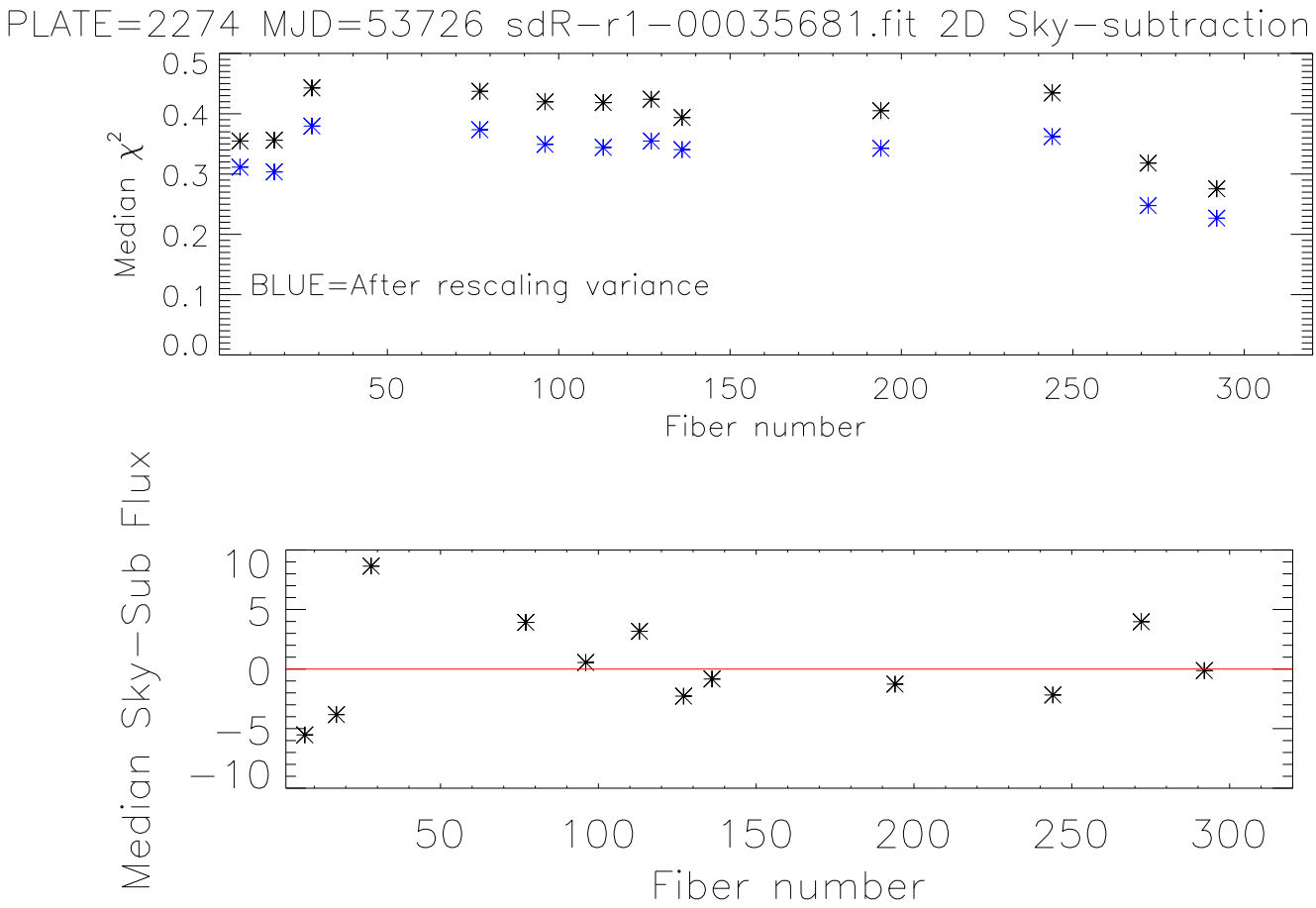

PLATE=2274 MJD=53726 Smooth superflat for sdR-r1-00035681.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

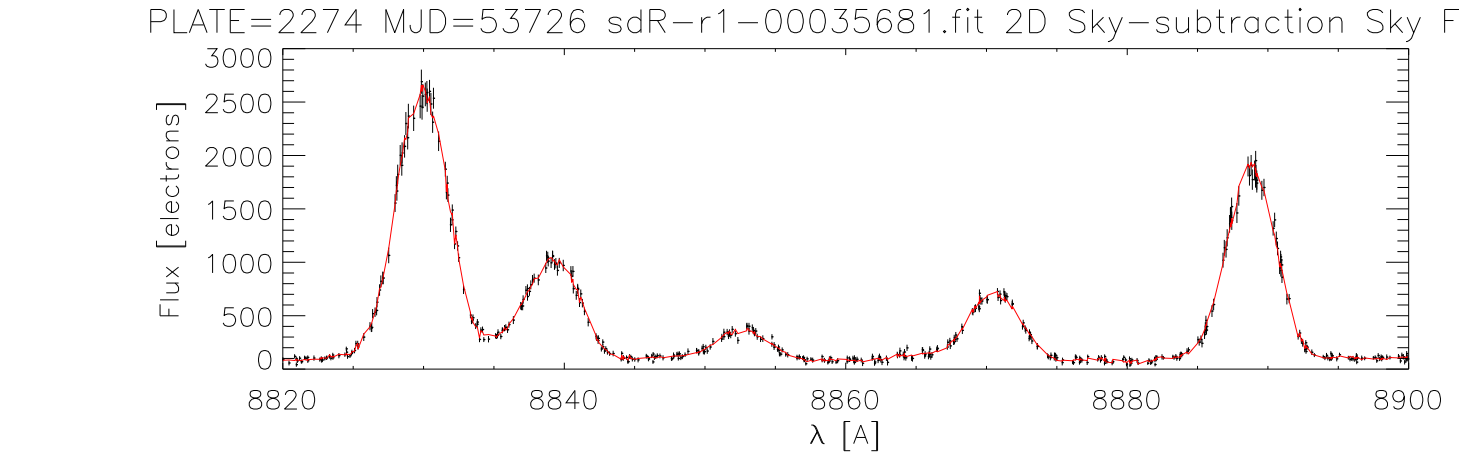

PLATE=2274 MJD=53726 sdR-r1-00035681.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
50
100
150
200
250
300
Fiber number

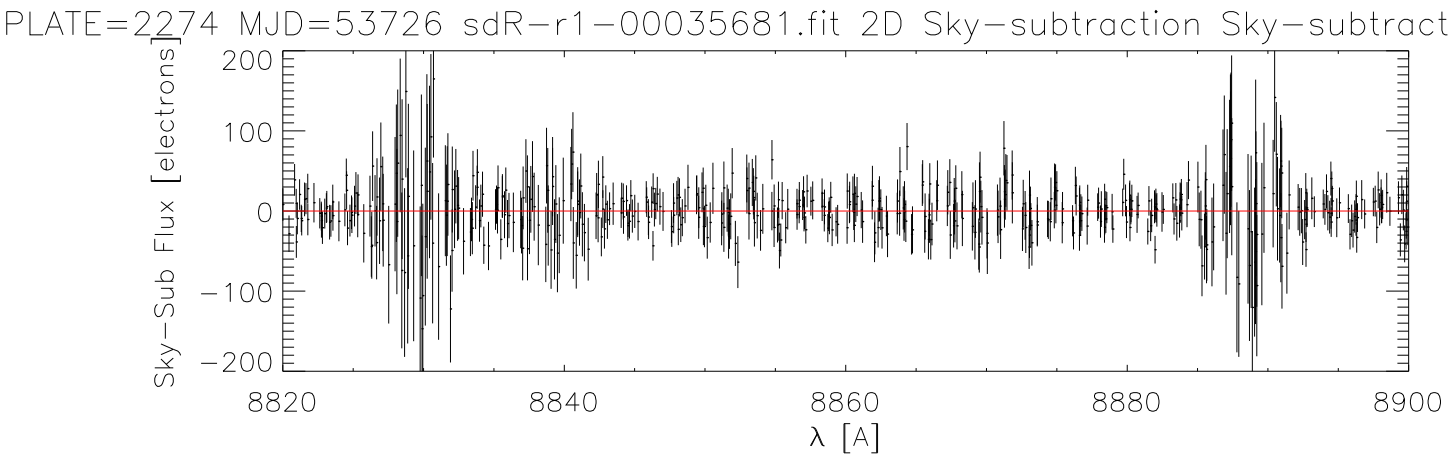

PLATE=2274 MJD=53726 sdR-r1-00035681.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

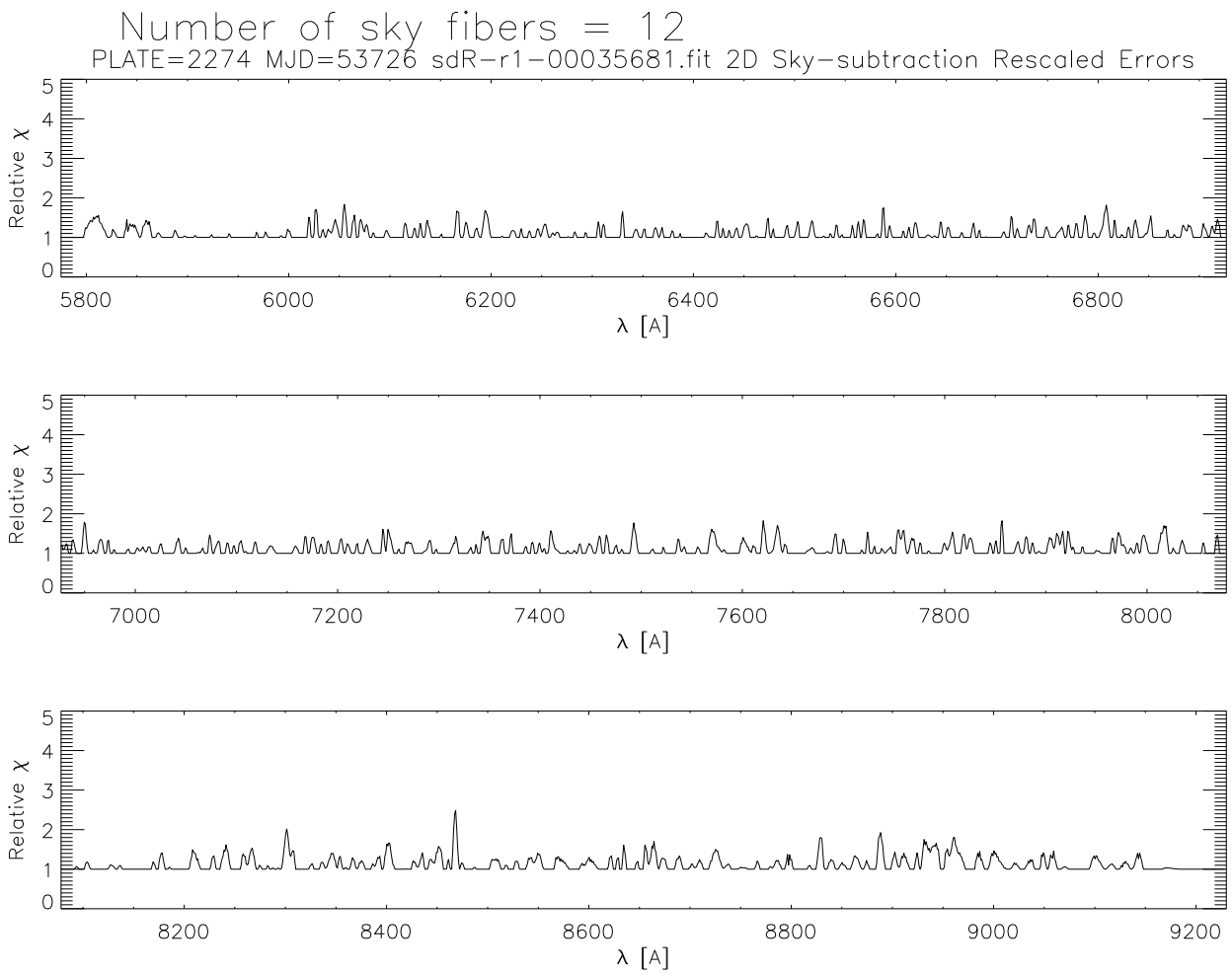

PLATE=2274 MJD=53726 sdR-r1-00035681.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

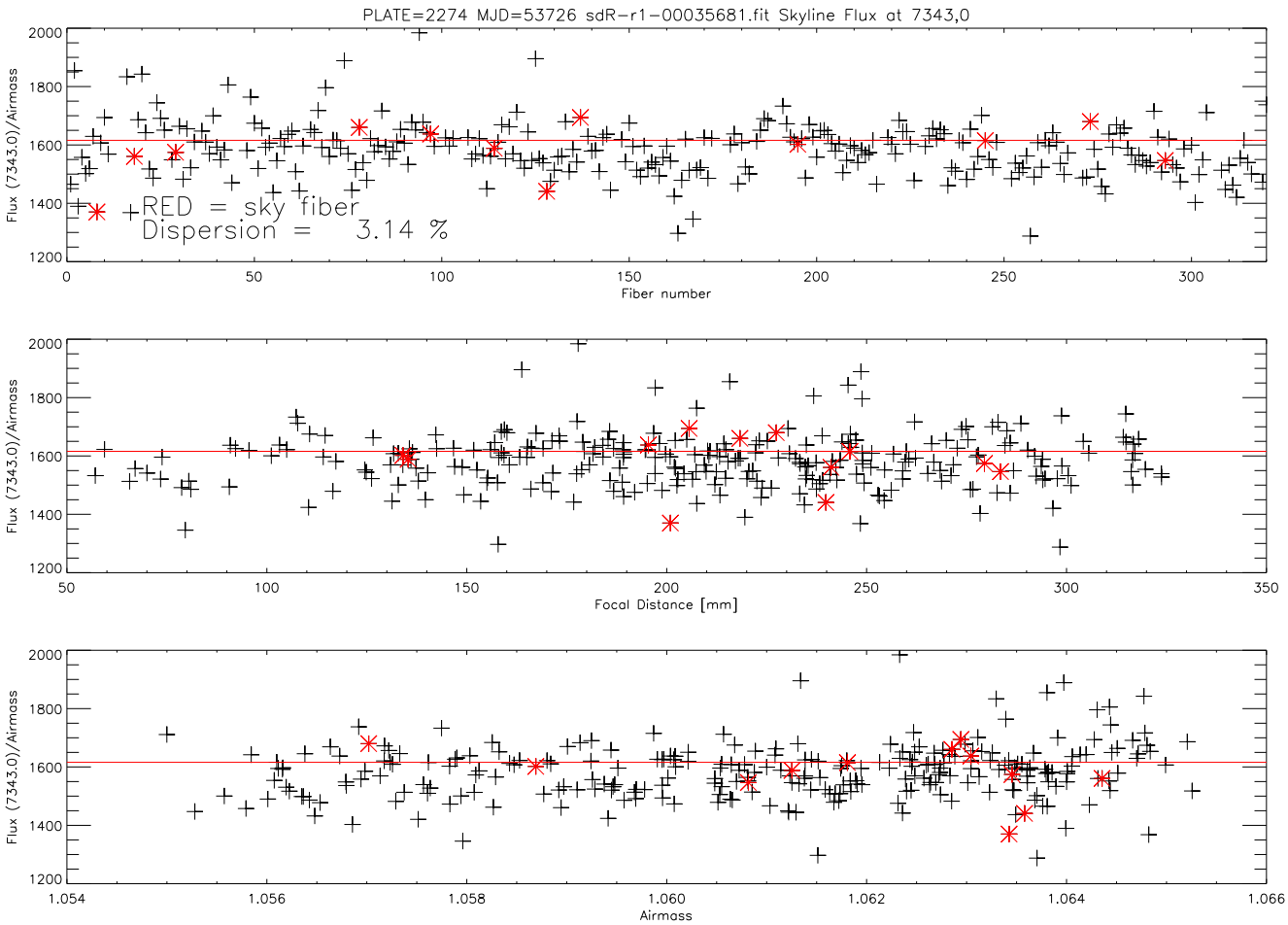

Number of sky fibers = 12
PLATE=2274 MJD=53726 sdR-r1-00035681.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

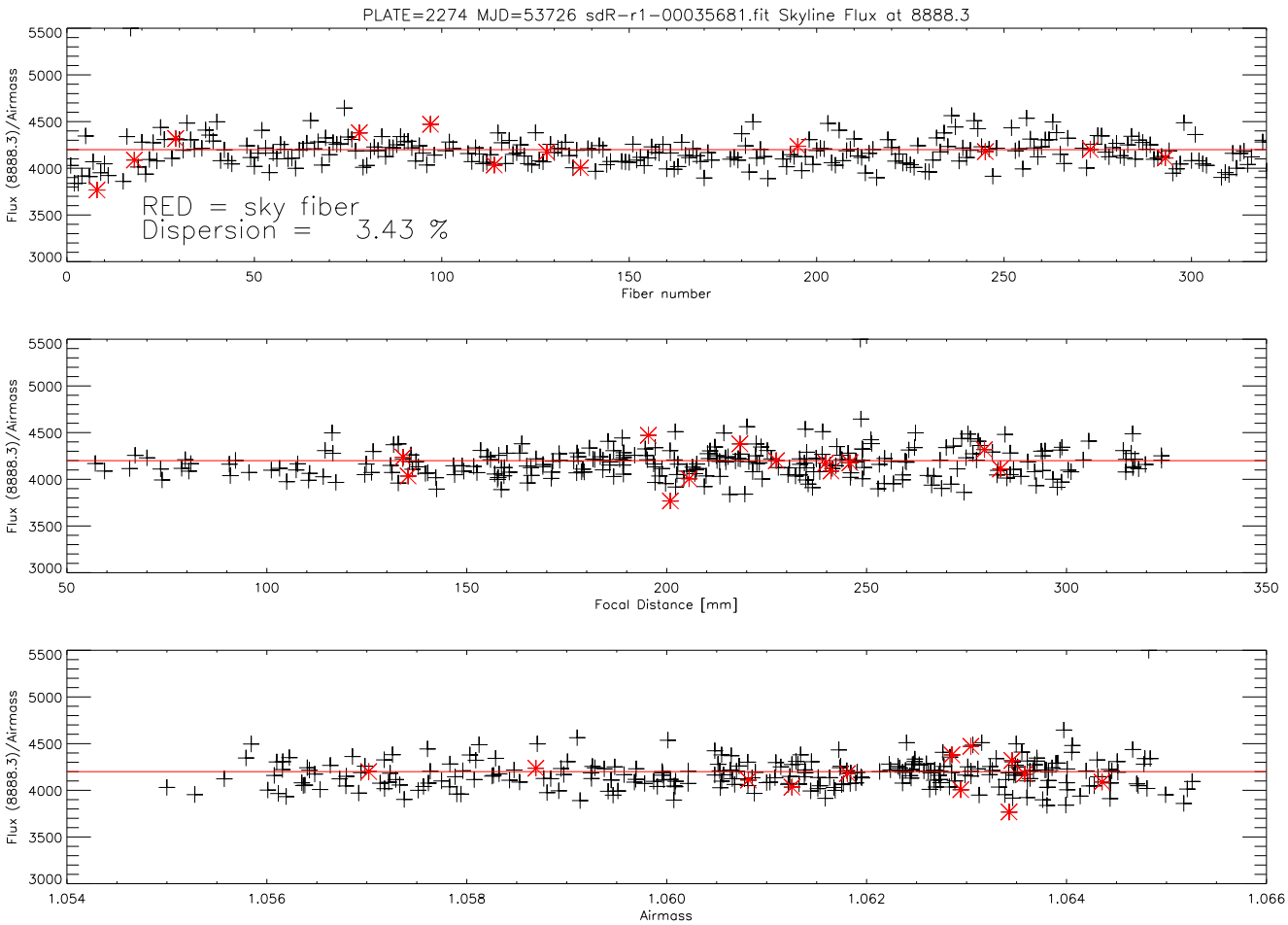

PLATE=2274 MJD=53726 sdR-r1-00035681.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.5
0.4
0.3
0.2
0.1
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

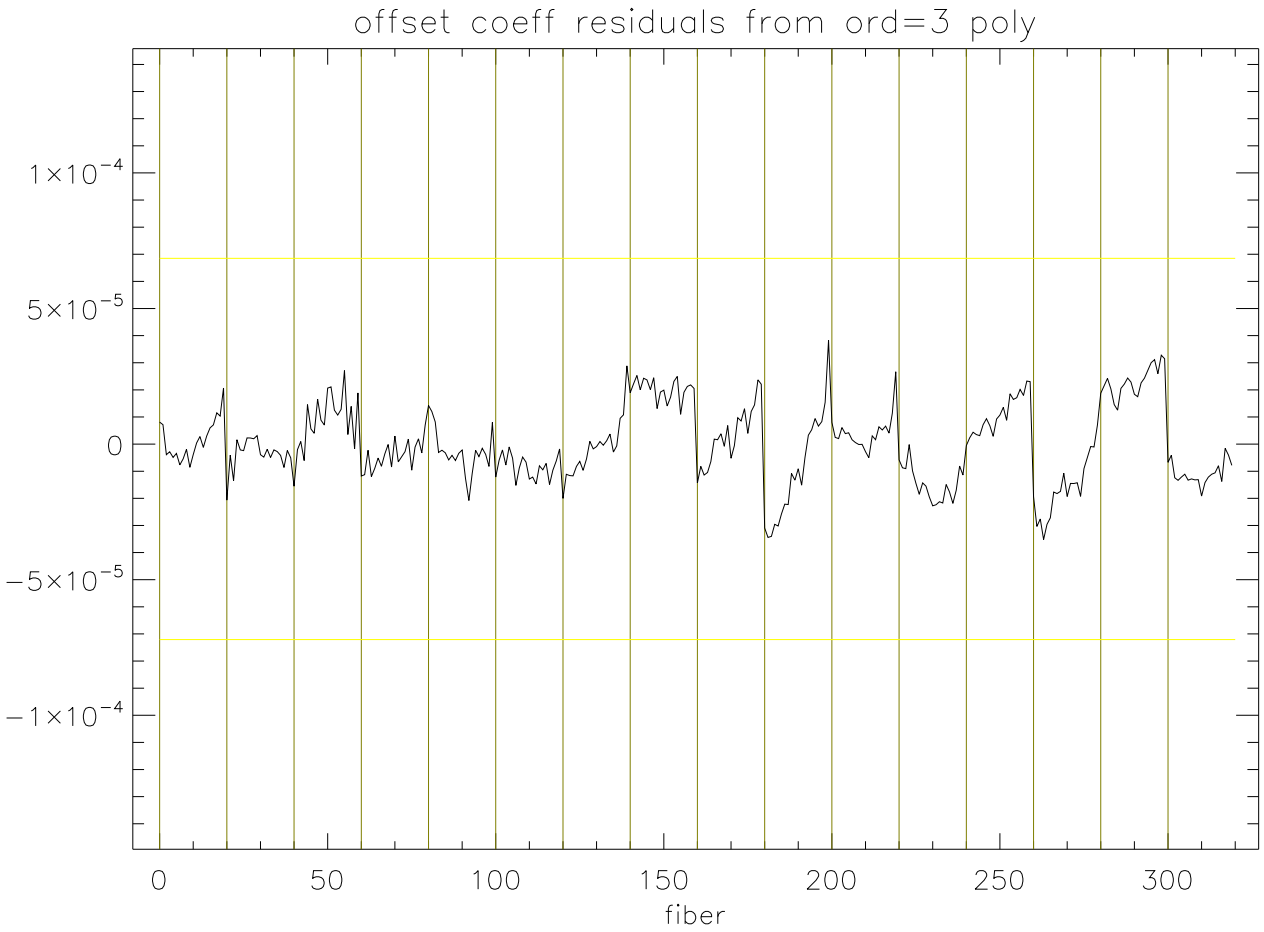

PLATE=2274 MJD=53726 sdR-r1-00035681.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

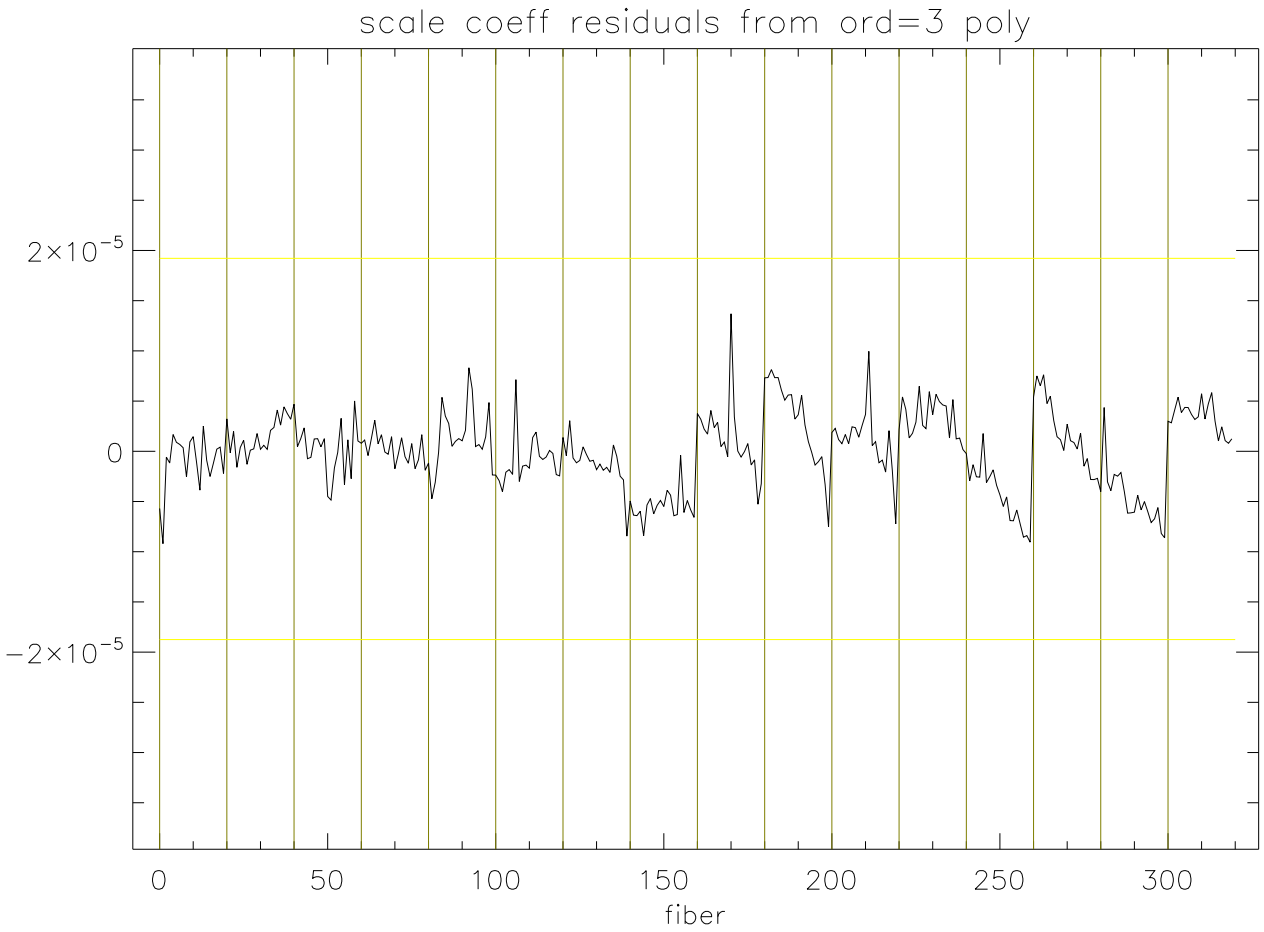

PLATE=2274 MJD=53726 sdR-r1-00035681.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

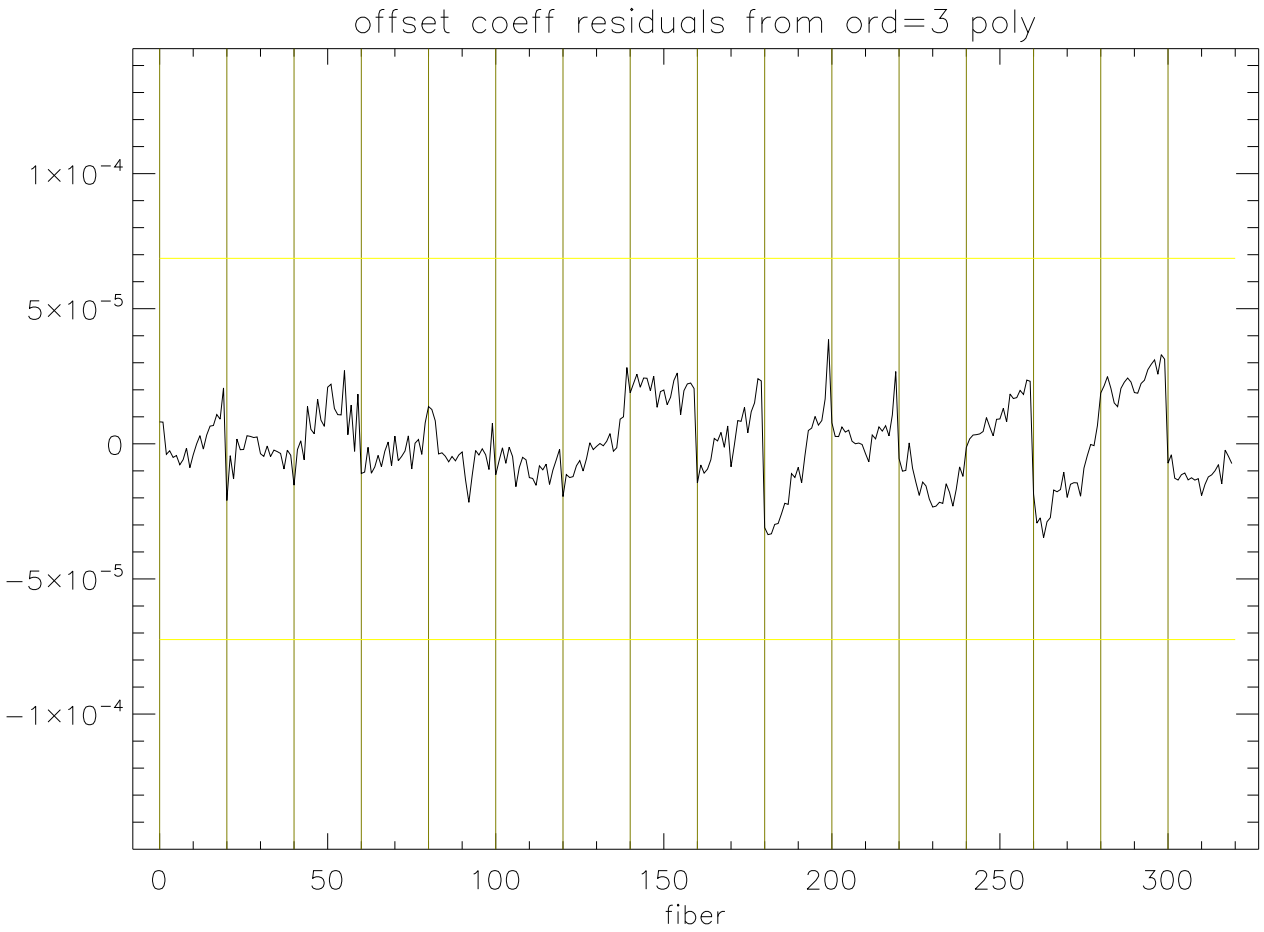

Number of sky fibers = 12
PLATE=2274 MJD=53726 sdR-r1-00035681.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

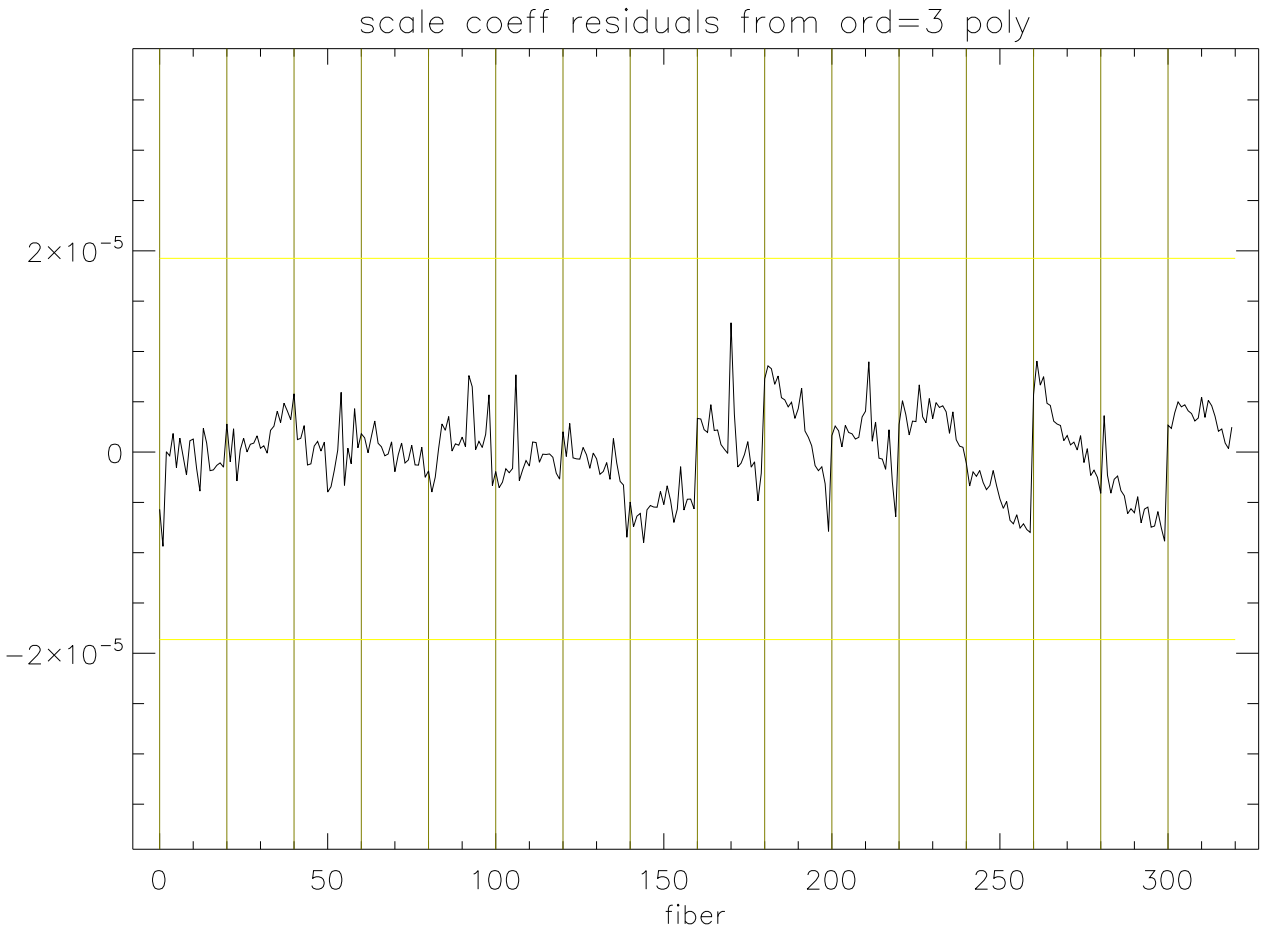

PLATE=2274 MJD=53726 sdR-r1-00035681.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 3.14 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

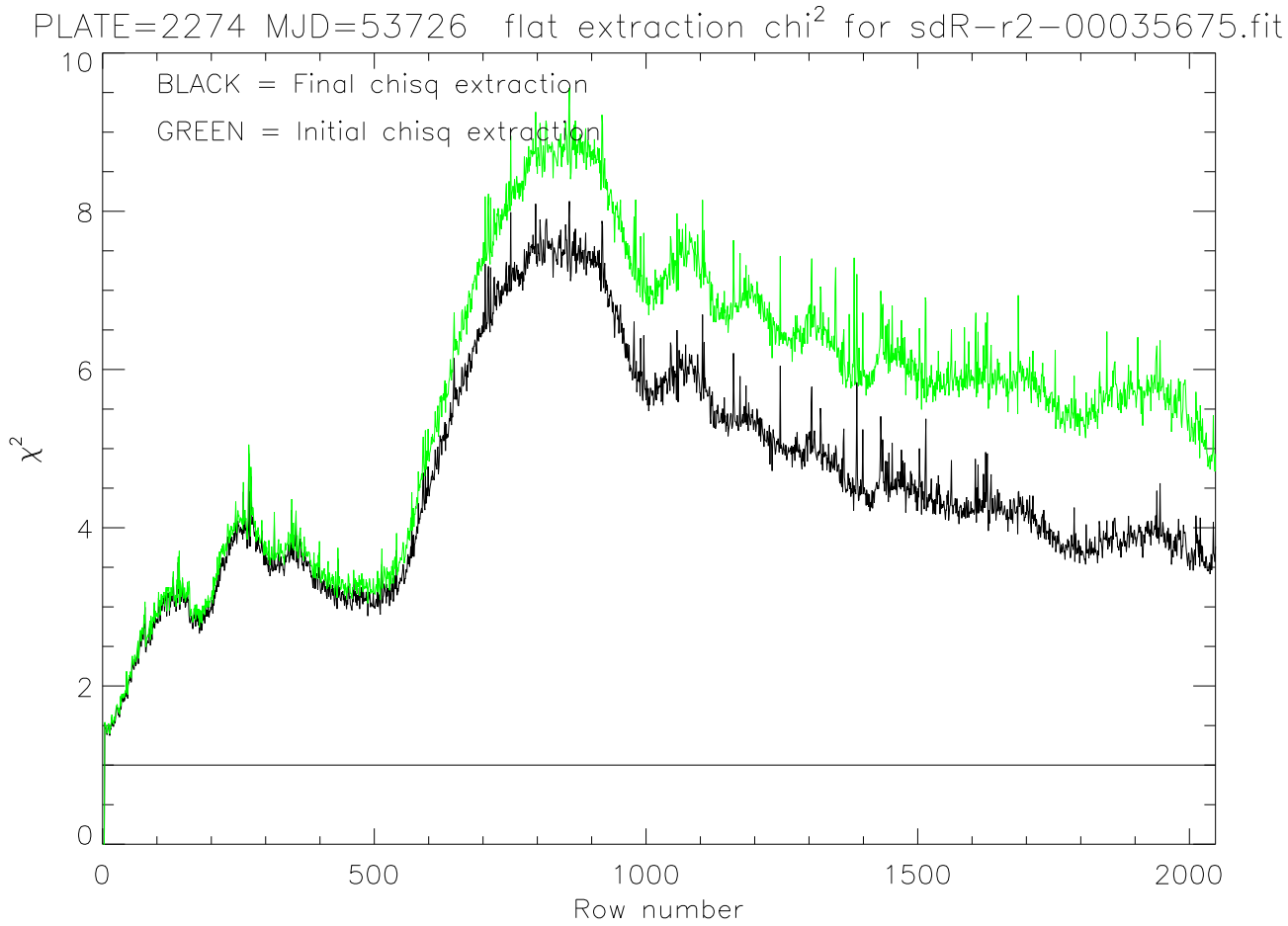

PLATE=2274 MJD=53726 sdR-r1-00035681.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.43 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

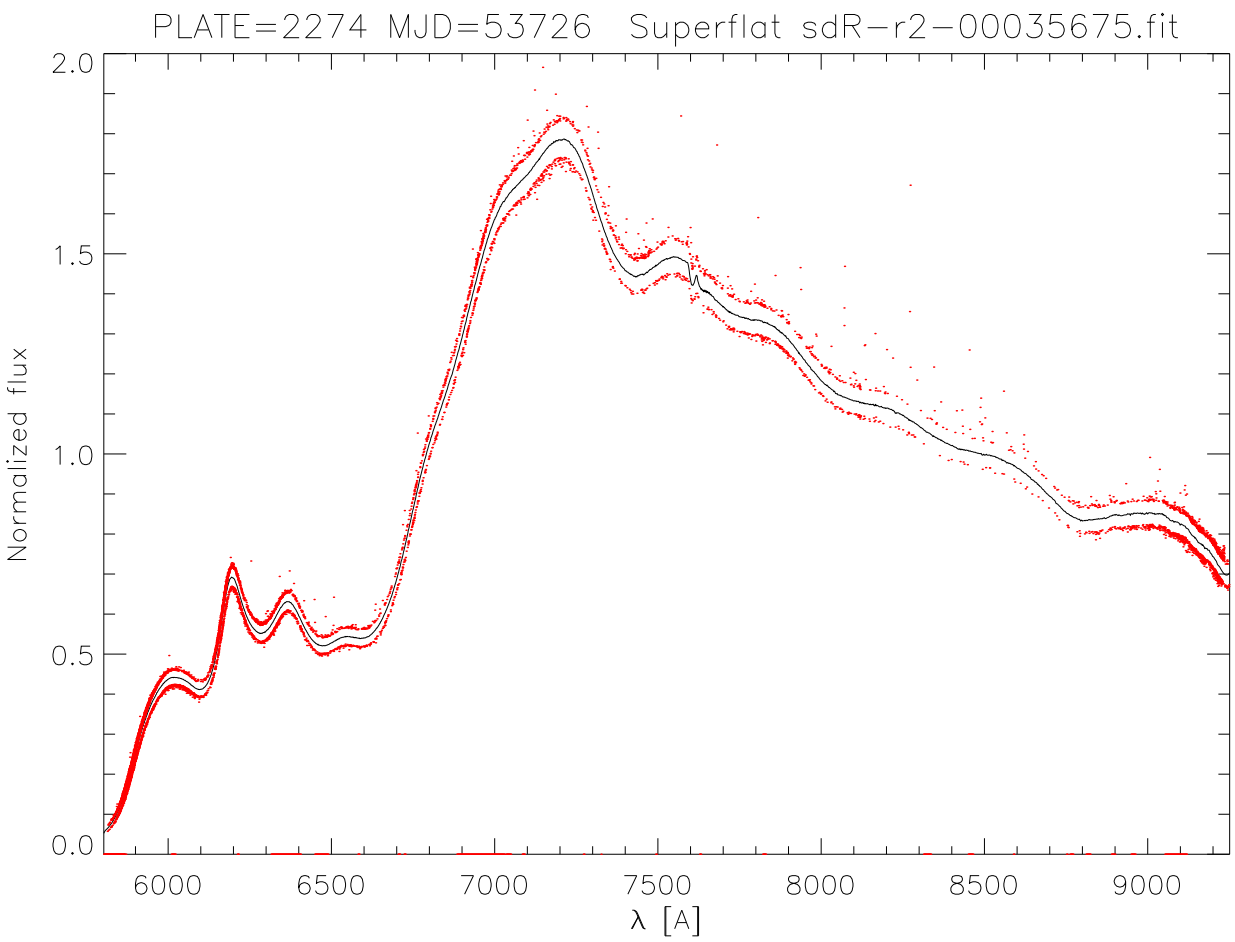

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

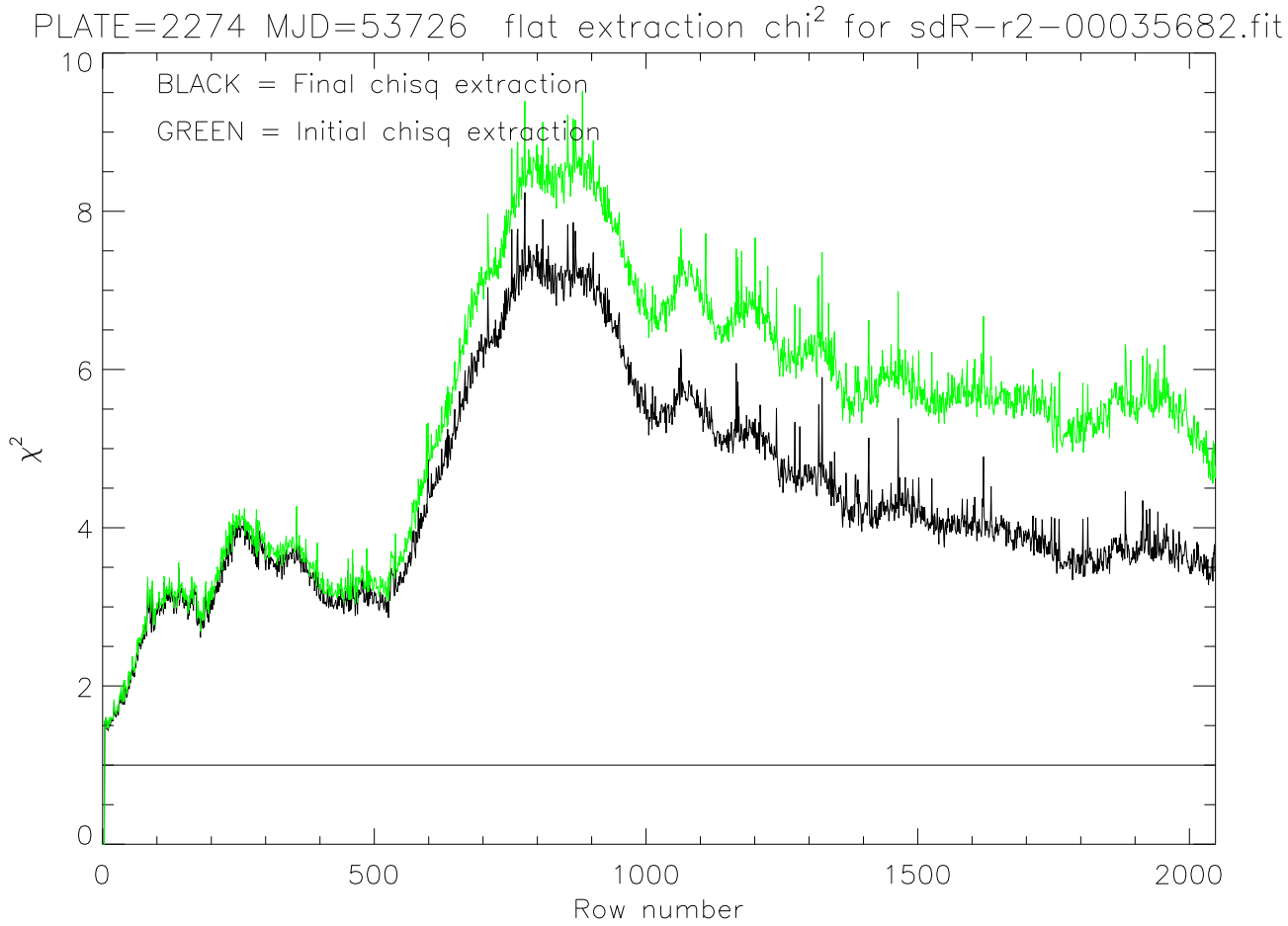

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

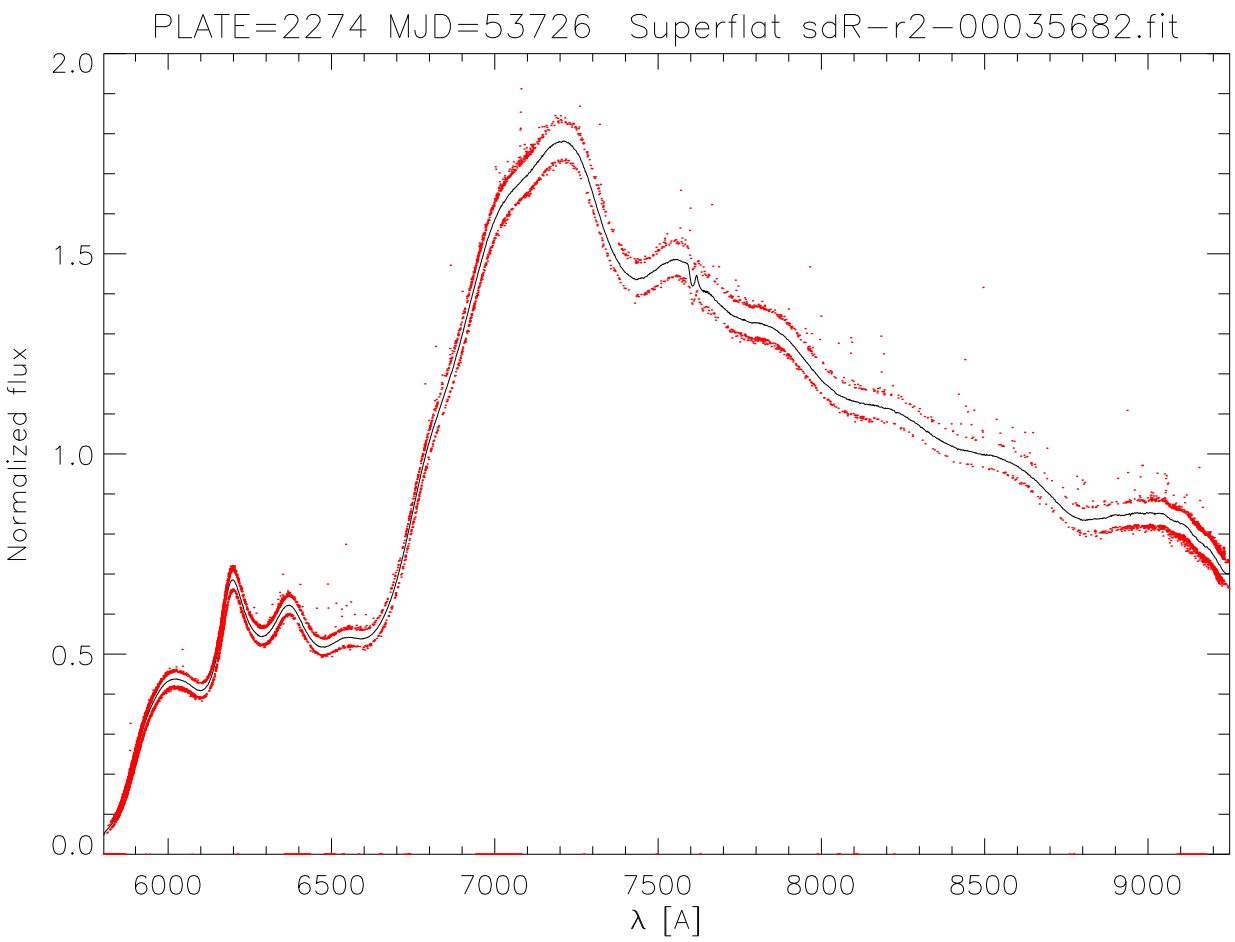

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

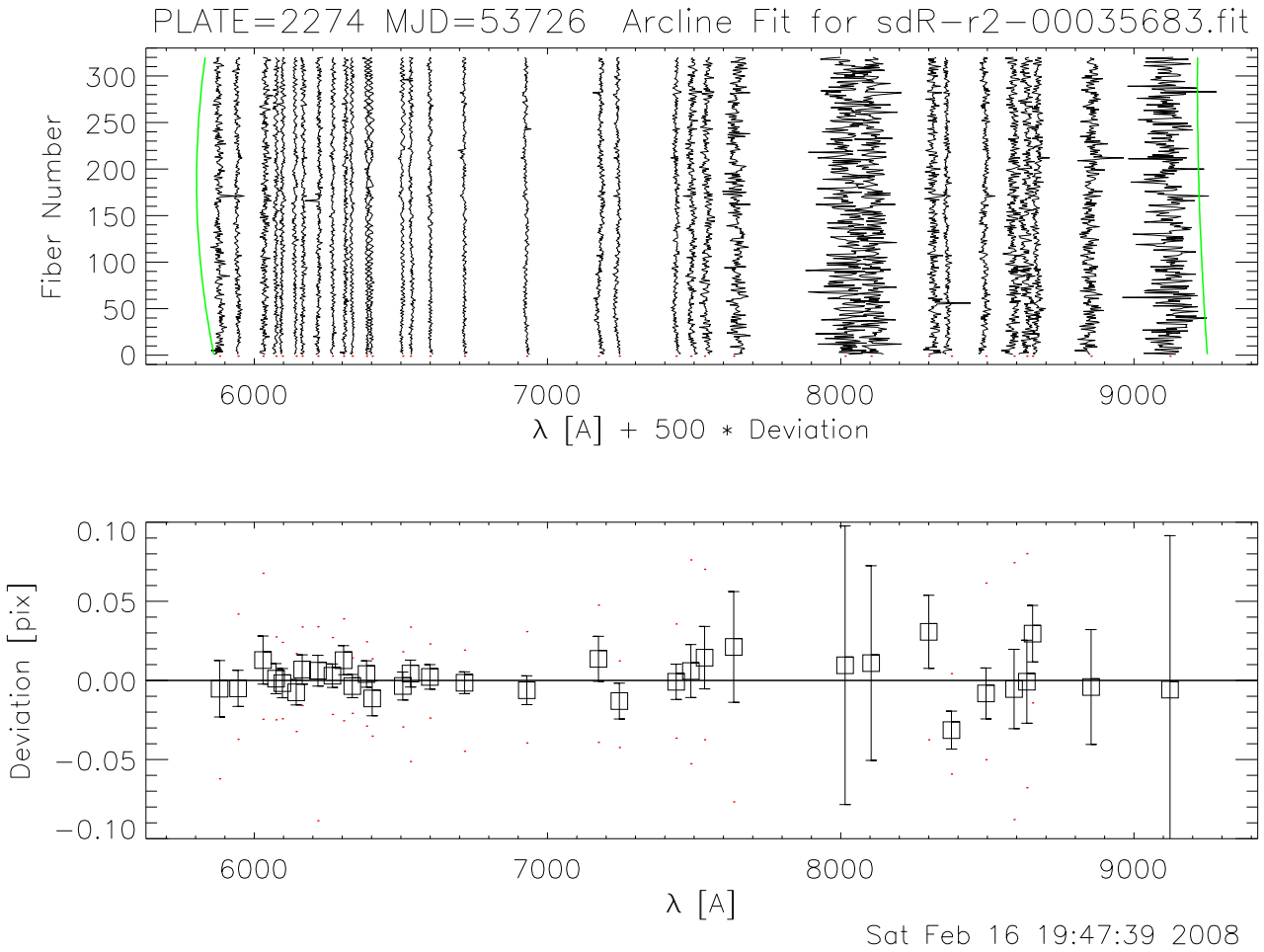

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

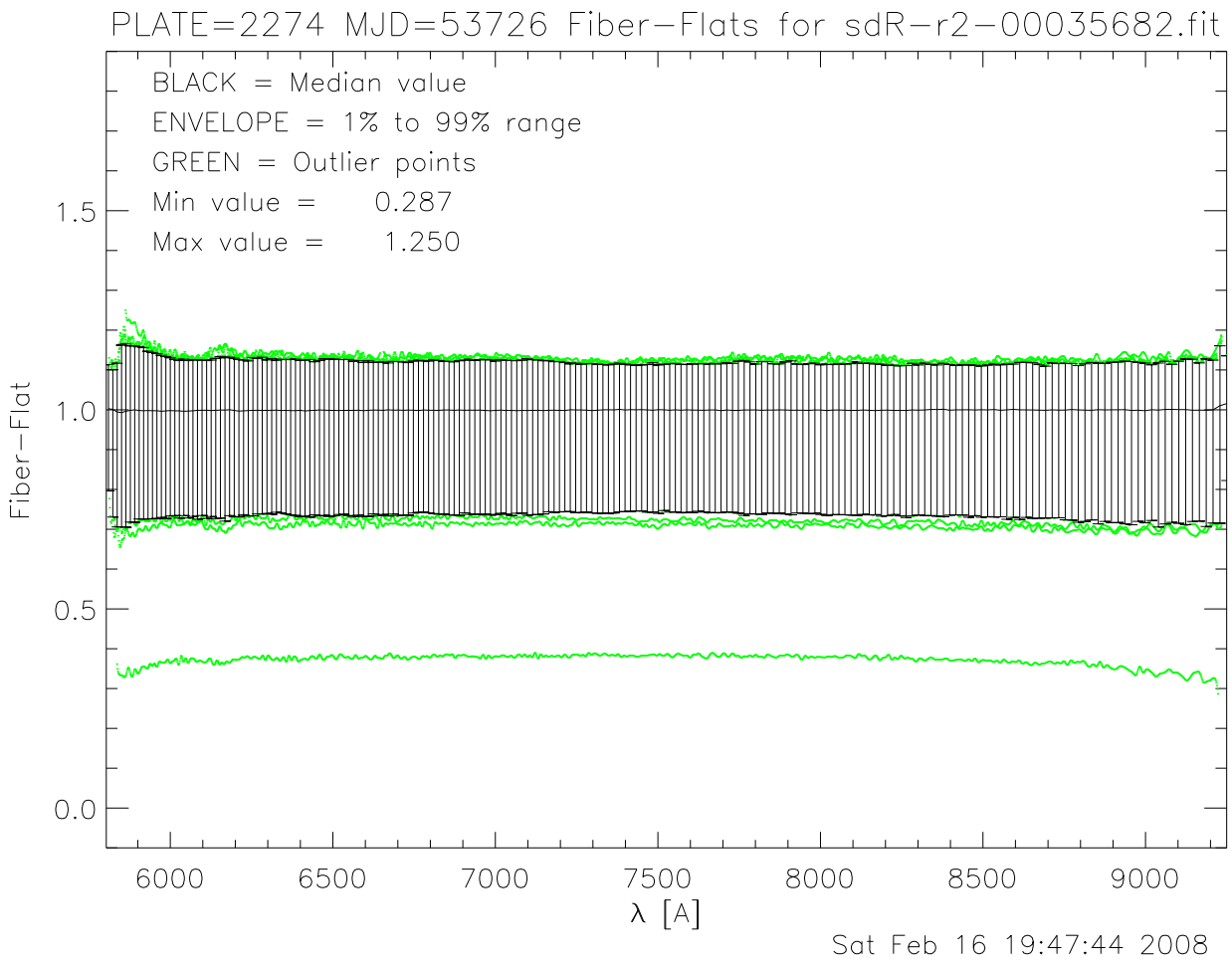

PLATE=2274 MJD=53726 flat extraction chi^2 for sdR−r2−00035675.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

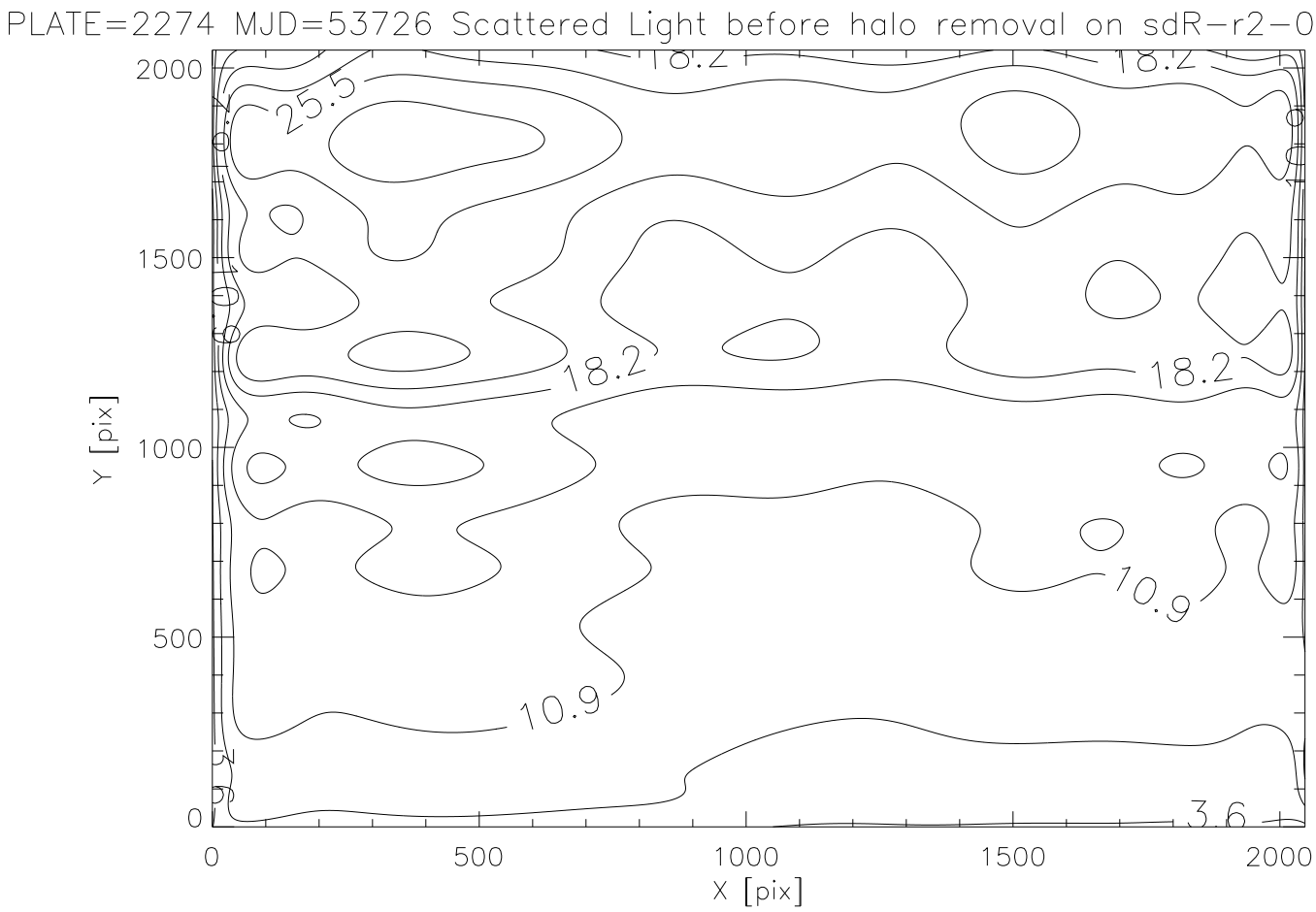

PLATE=2274 MJD=53726 Superflat sdR-r2-00035675.fit
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
6000
6500
7000
7500
8000
8500
9000

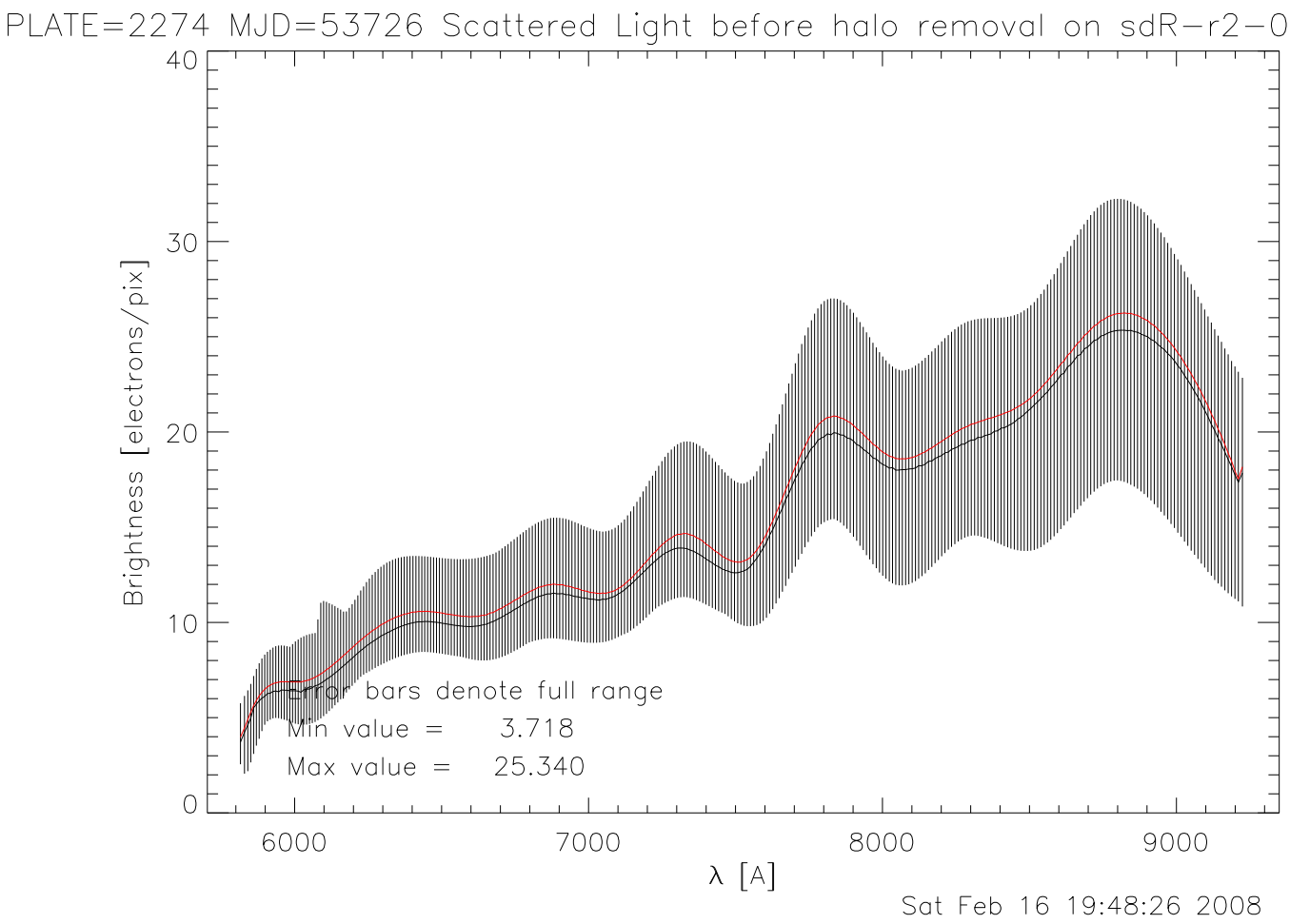

PLATE=2274 MJD=53726 flat extraction chi^2 for sdR−r2−00035682.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

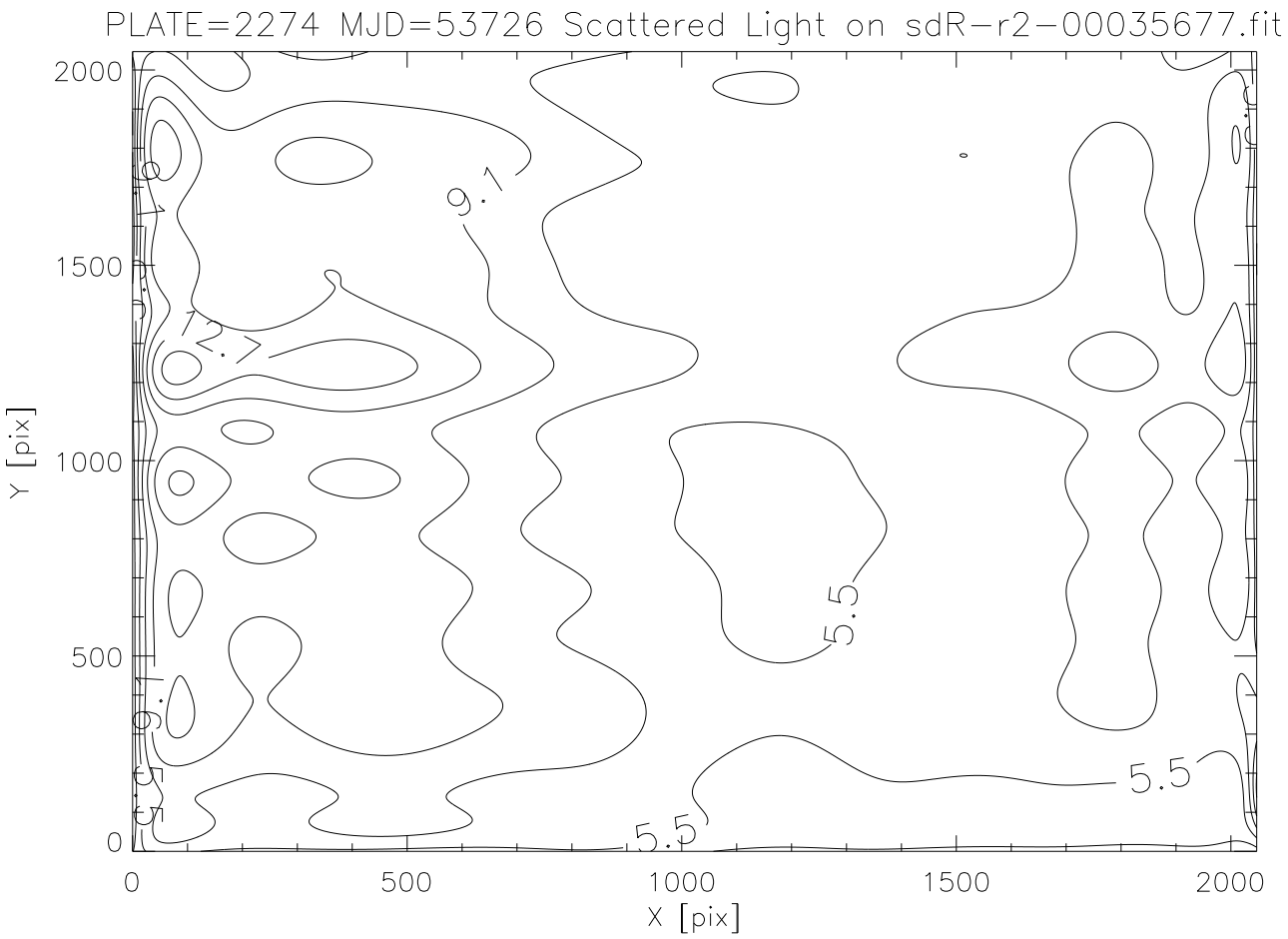

PLATE=2274 MJD=53726 Superflat sdR-r2-00035682.fit
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
6000
6500
7000
7500
8000
8500
9000

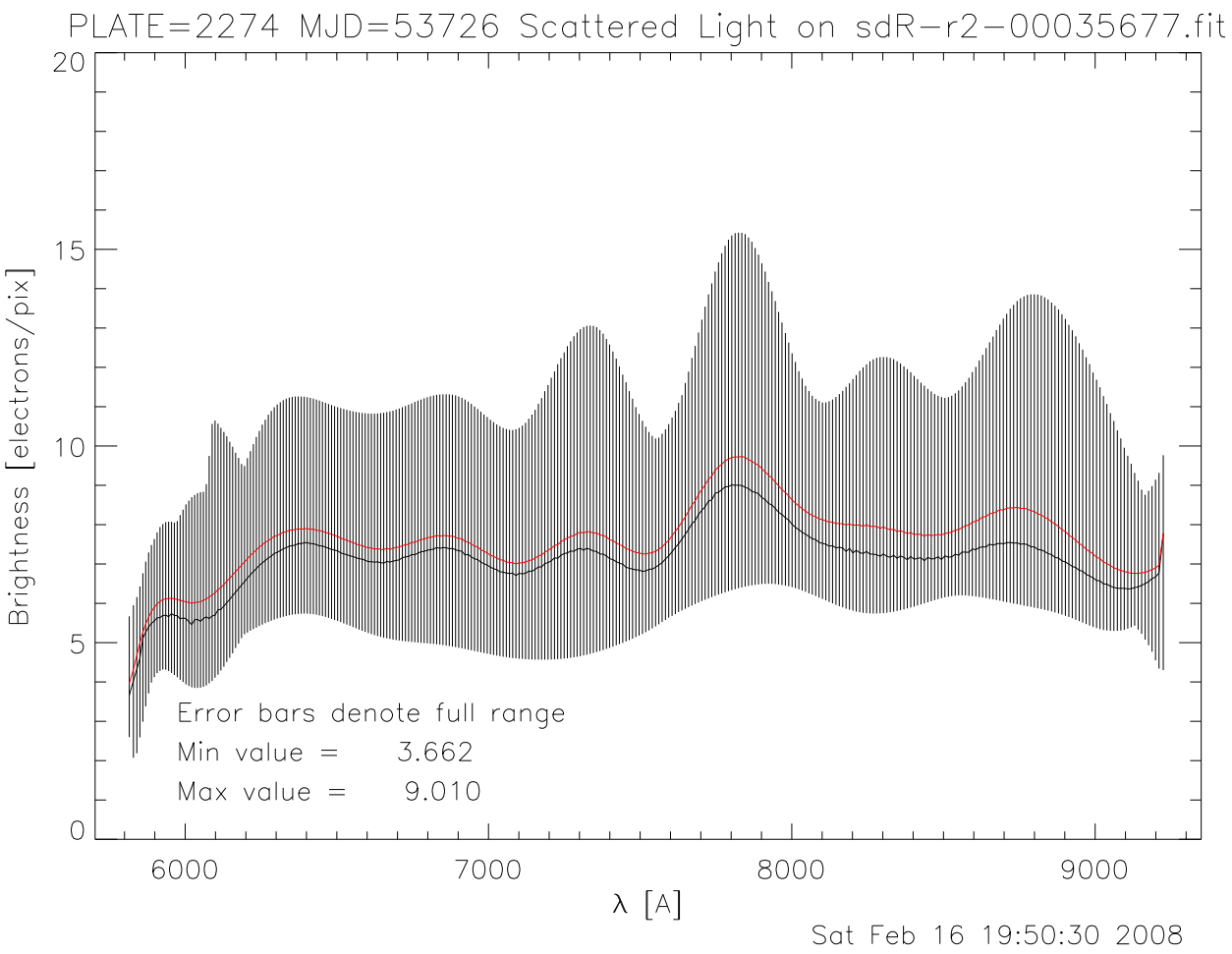

PLATE=2274 MJD=53726 Arcline Fit for sdR-r2-00035683.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Sat Feb 16 19:47:39 2008

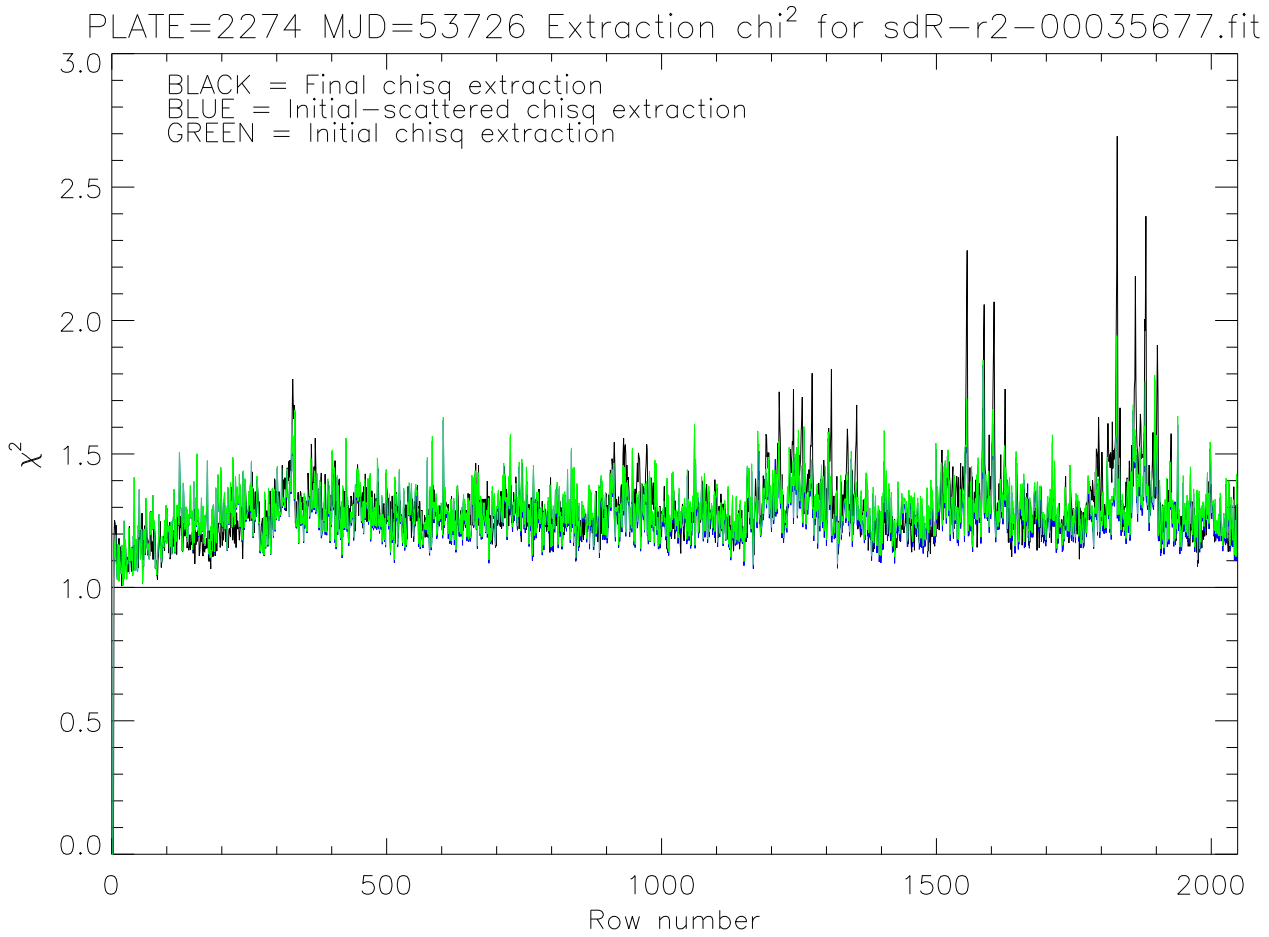

PLATE=2274 MJD=53726 Fiber-Flats for sdR-r2-00035682.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.287
Max value = 1.250
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sat Feb 16 19:47:44 2008

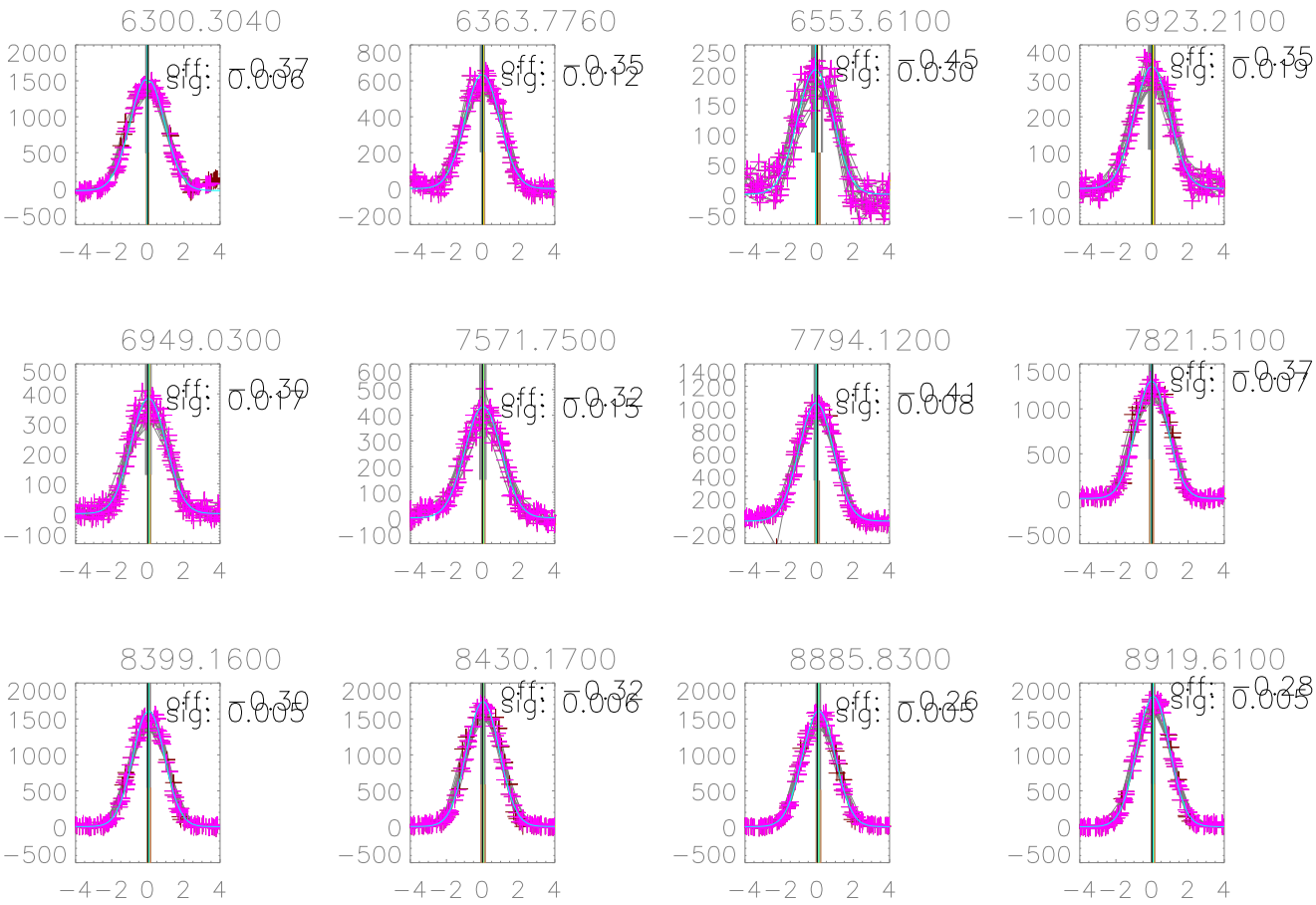

PLATE=2274 MJD=53726 Scattered Light before halo removal on sdR-r2-00035677.fi
25.5
18.2
18.2
18.2
10.9
10.9
3.6
Y [pix]
X [pix]
0
500
1000
1500
2000

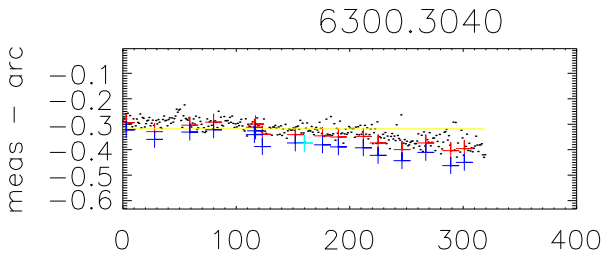

PLATE=2274 MJD=53726 Scattered Light before halo removal on sdR-r2-00035677.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.718
Max value = 25.340
Sat Feb 16 19:48:26 2008

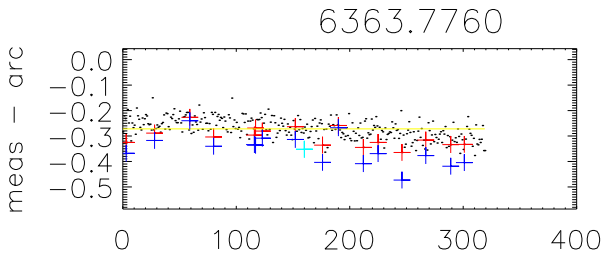

PLATE=2274 MJD=53726 Scattered Light on sdR-r2-00035677.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
9.1
12.7
5.5
5.5
5.5

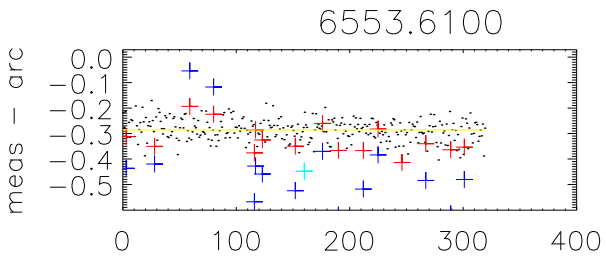

PLATE=2274 MJD=53726 Scattered Light on sdR-r2-00035677.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.662
Max value = 9.010
Sat Feb 16 19:50:30 2008

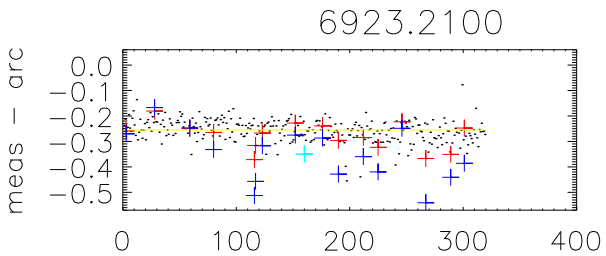

PLATE=2274 MJD=53726 Extraction chi^2 for sdR−r2−00035677.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

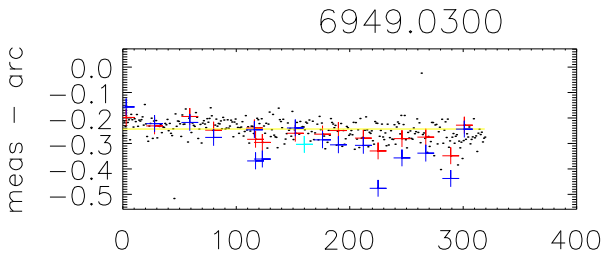

6300.3040
off: −0.37
sig: 0.006
6363.7760
off: −0.35
sig: 0.012
6553.6100
off: −0.45
sig: 0.030
6923.2100
off: −0.35
sig: 0.019
6949.0300
off: −0.39
sig: 0.017
7571.7500
off: −0.32
sig: 0.015
7794.1200
off: −0.41
sig: 0.008
7821.5100
off: −0.37
sig: 0.007
8399.1600
off: −0.30
sig: 0.005
8430.1700
off: −0.32
sig: 0.006
8885.8300
off: −0.26
sig: 0.005
8919.6100
off: −0.28
sig: 0.005

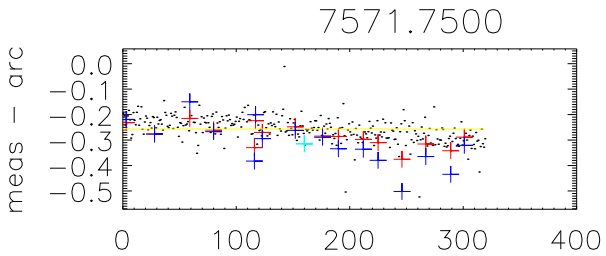

6300.3040
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

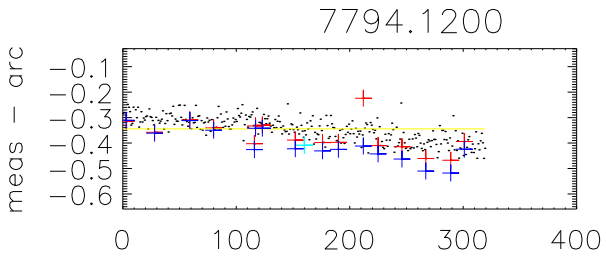

6363.7760
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

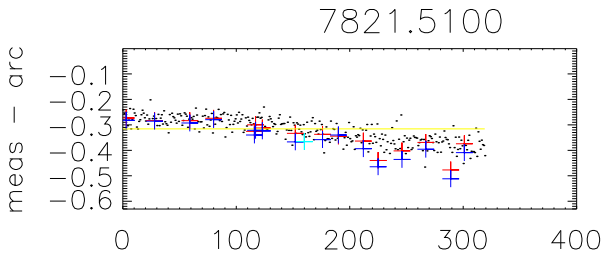

6553.6100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

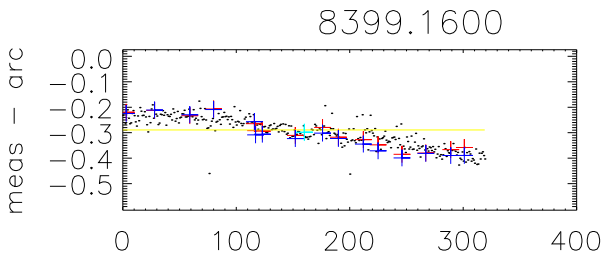

6923.2100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

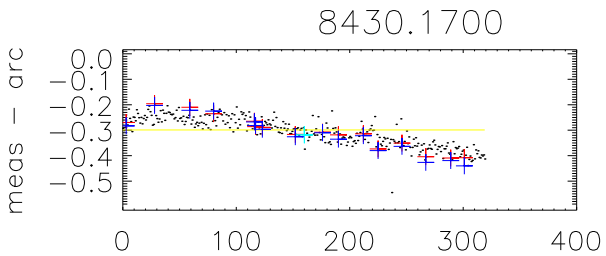

6949.0300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

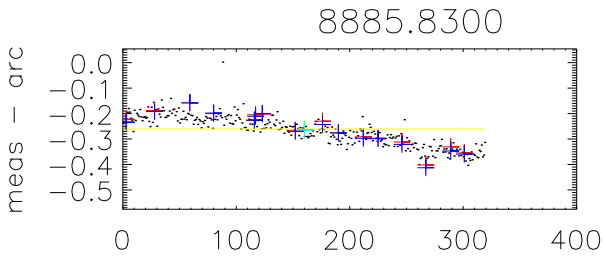

7571.7500
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

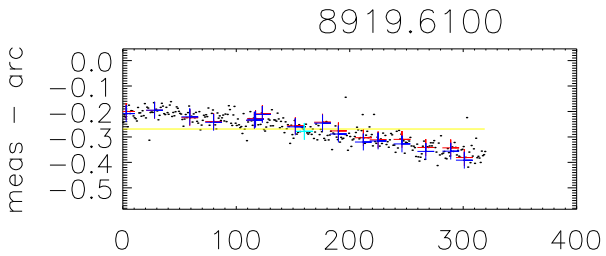

7794.1200
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

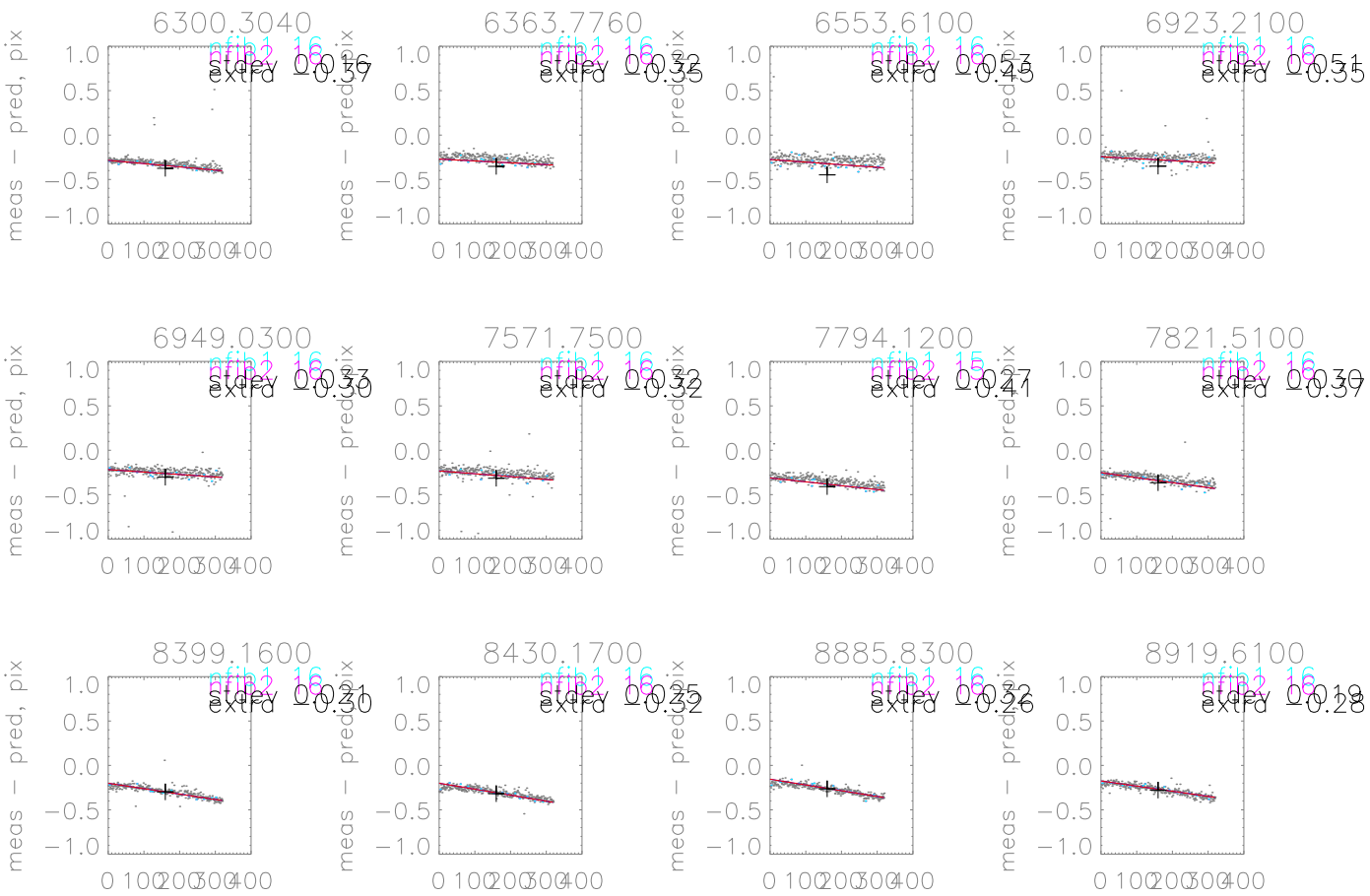

7821.5100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

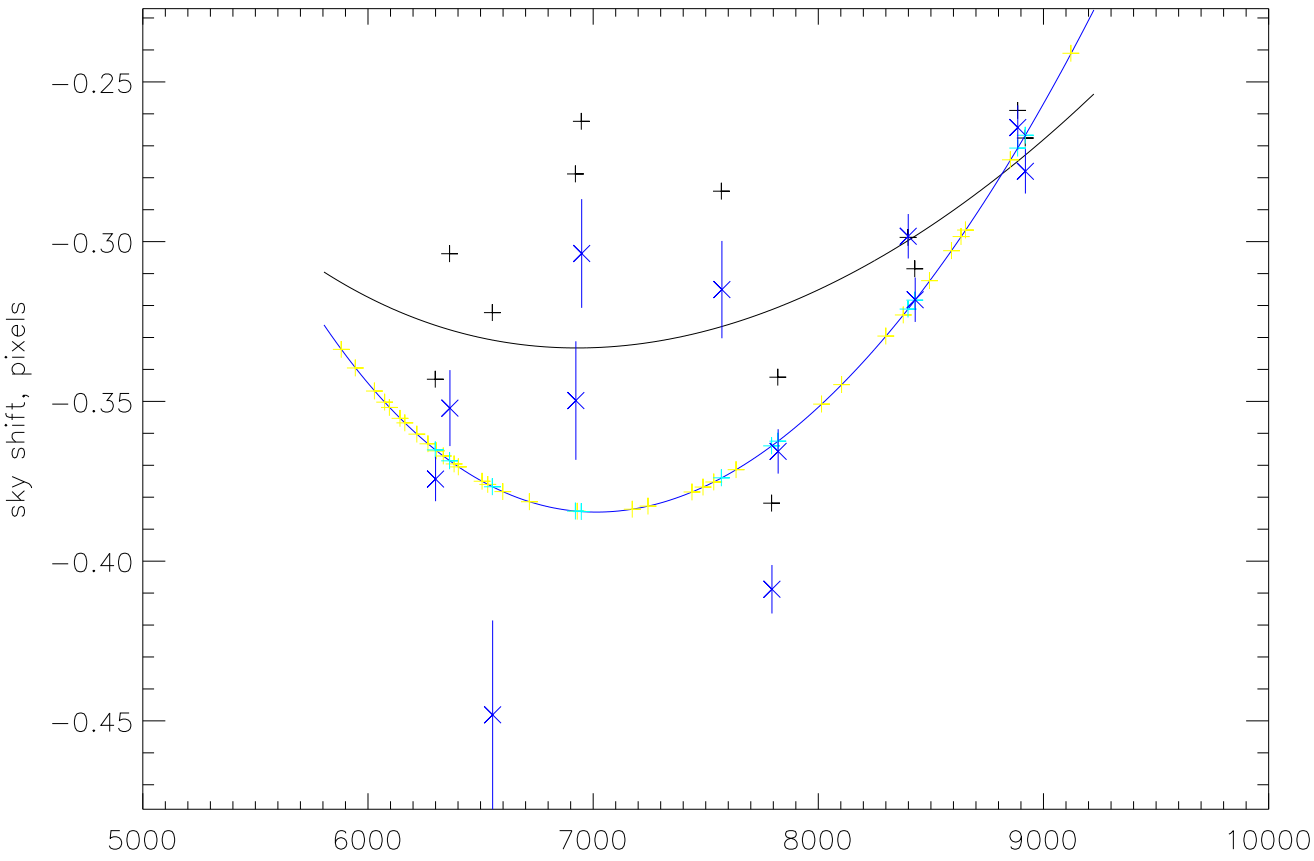

8399.1600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400


8430.1700
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

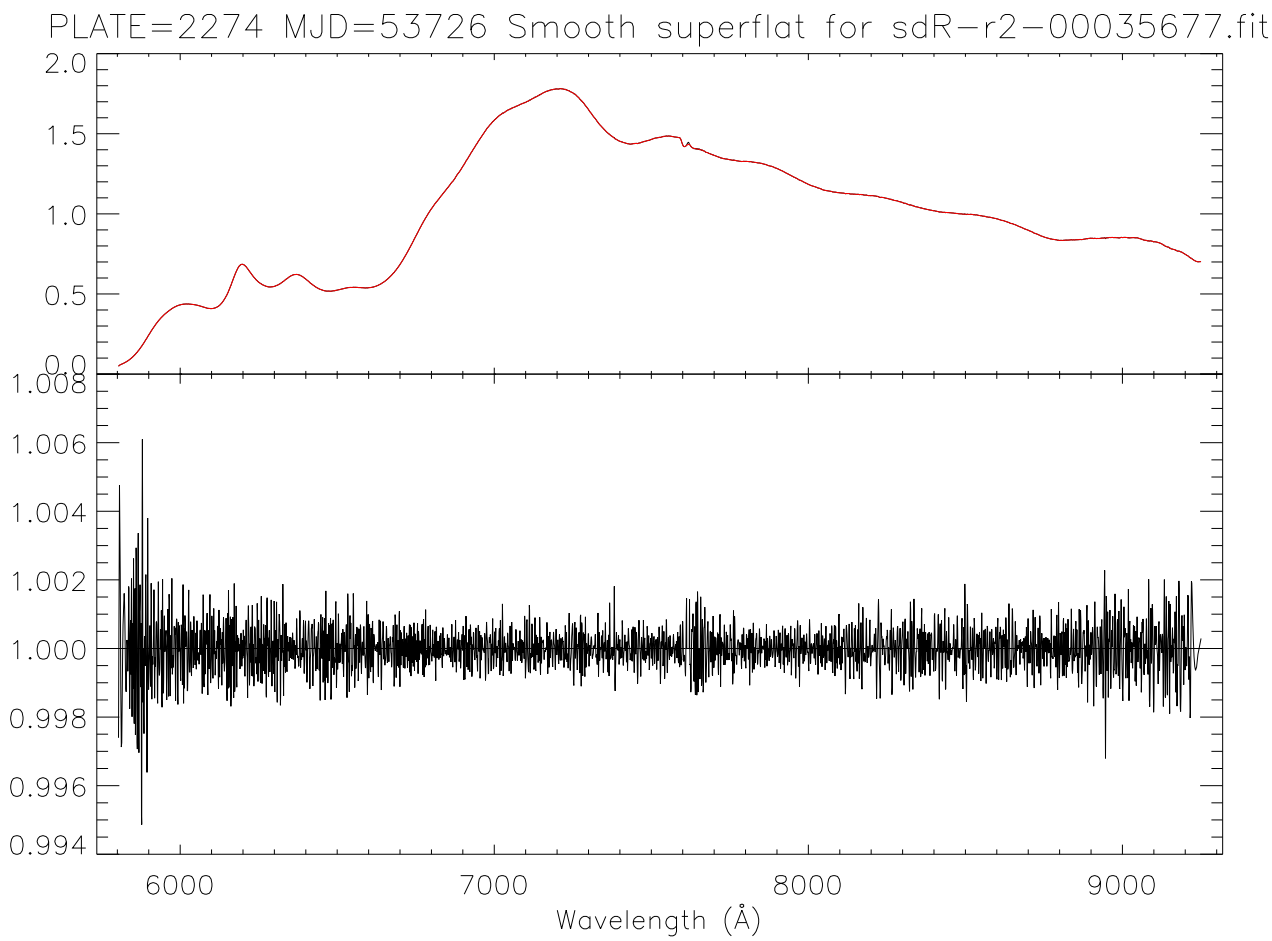

8885.8300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

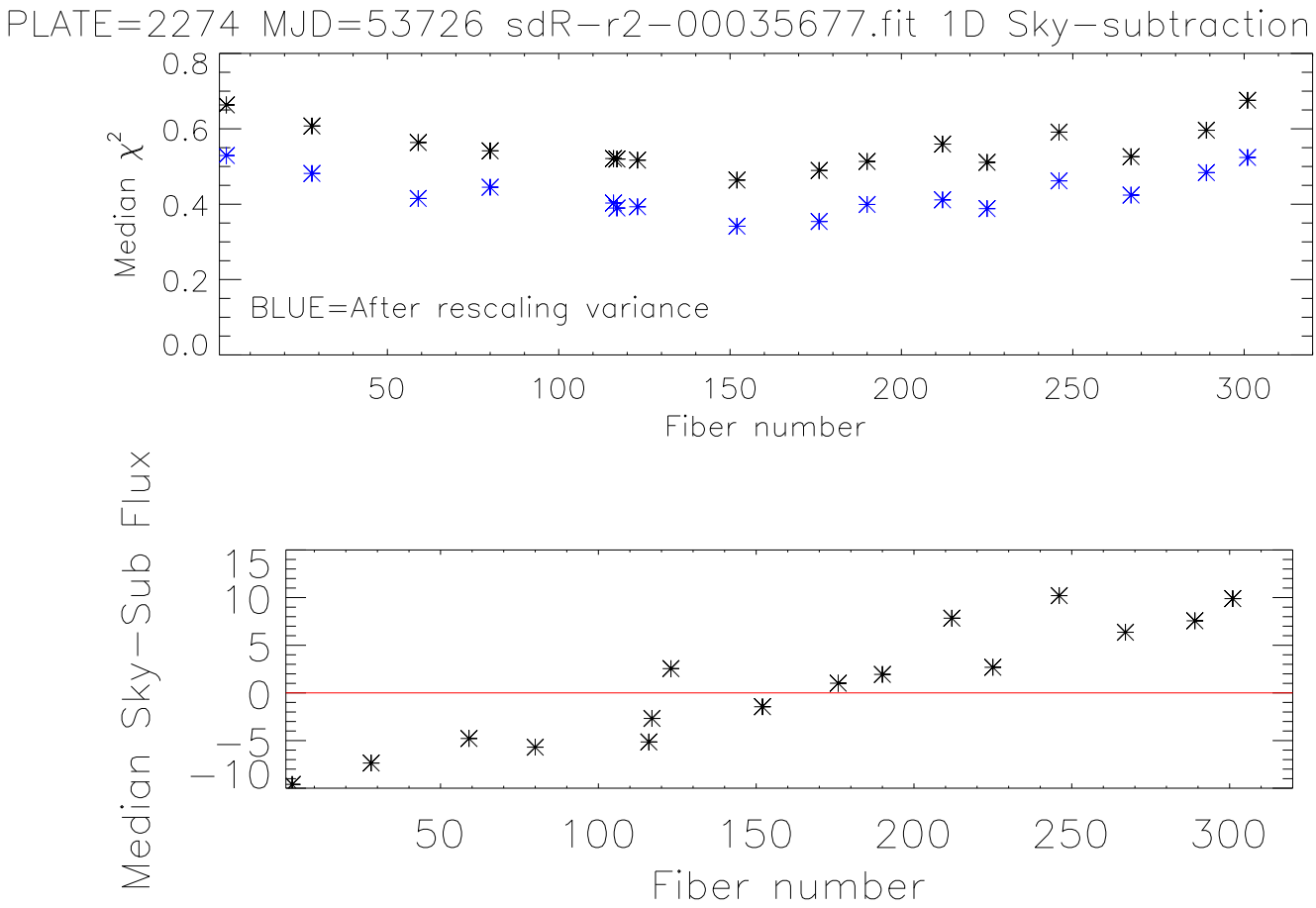

8919.6100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

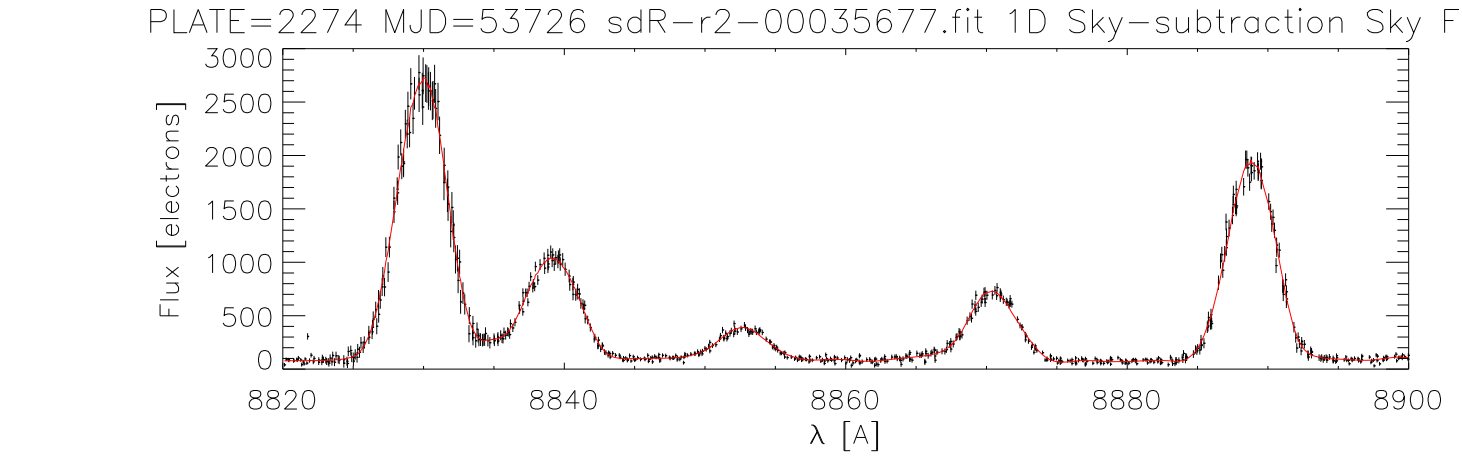

6300.3040
stdev 0.36
extra −0.37
6363.7760
stdev 0.32
extra −0.35
6553.6100
stdev 0.53
extra −0.45
6923.2100
stdev 0.51
extra −0.35
6949.0300
stdev 0.33
extra −0.30
7571.7500
stdev 0.32
extra −0.32
7794.1200
stdev 0.27
extra −0.41
7821.5100
stdev 0.30
extra −0.37
8399.1600
stdev 0.21
extra −0.30
8430.1700
stdev 0.25
extra −0.32
8885.8300
stdev 0.32
extra −0.26
8919.6100
stdev 0.19
extra −0.28
meas − pred, pix
meas − pred, pix

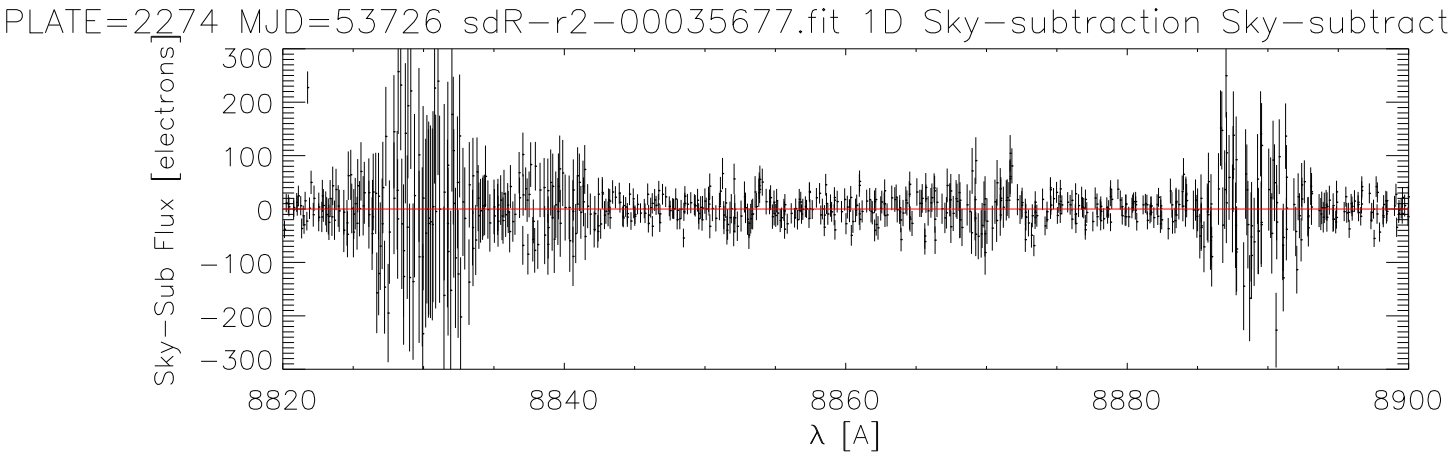

−0.25
−0.30
−0.35
−0.40
−0.45
sky shift, pixels
5000
6000
7000
8000
9000
10000

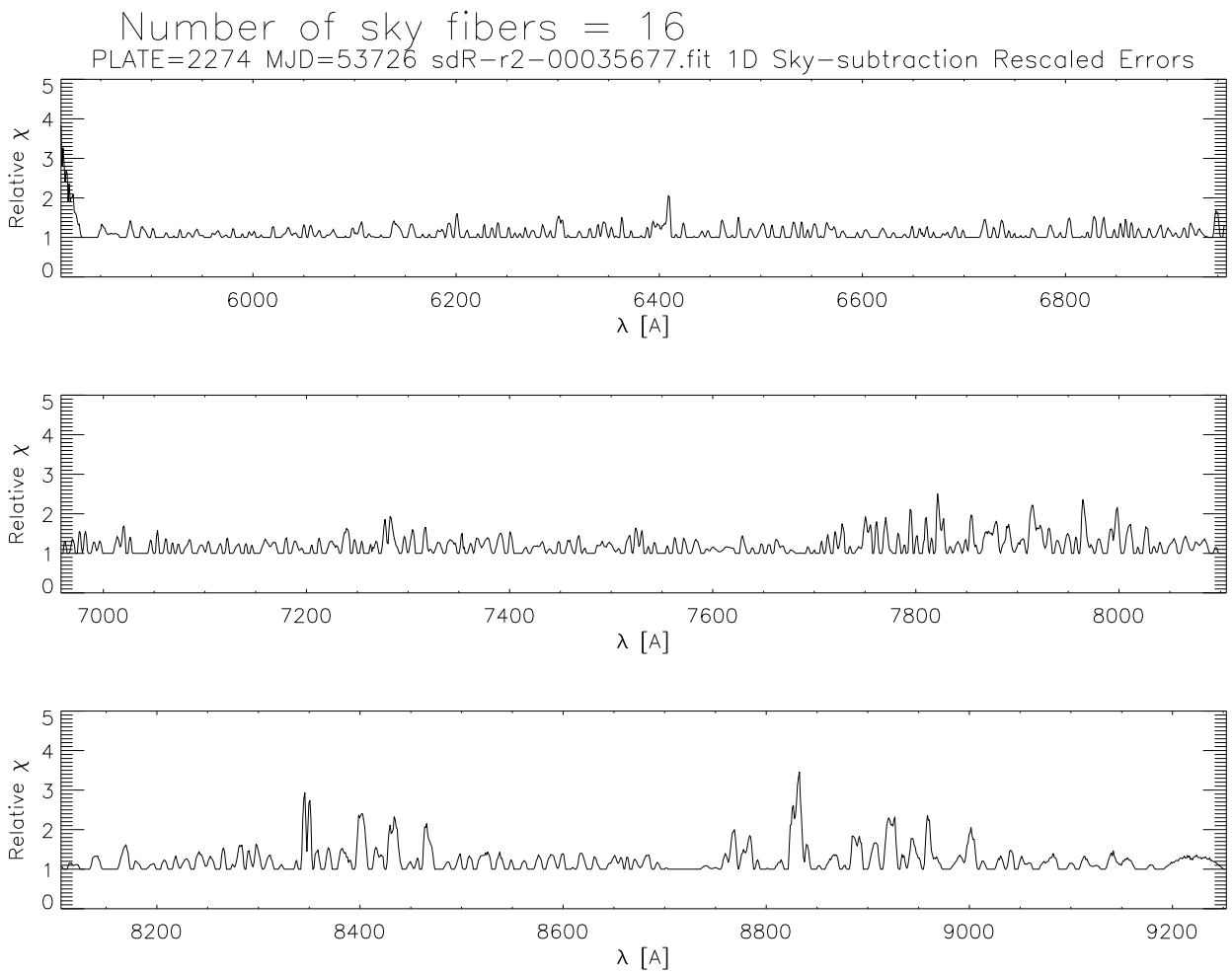
es= −0.0000

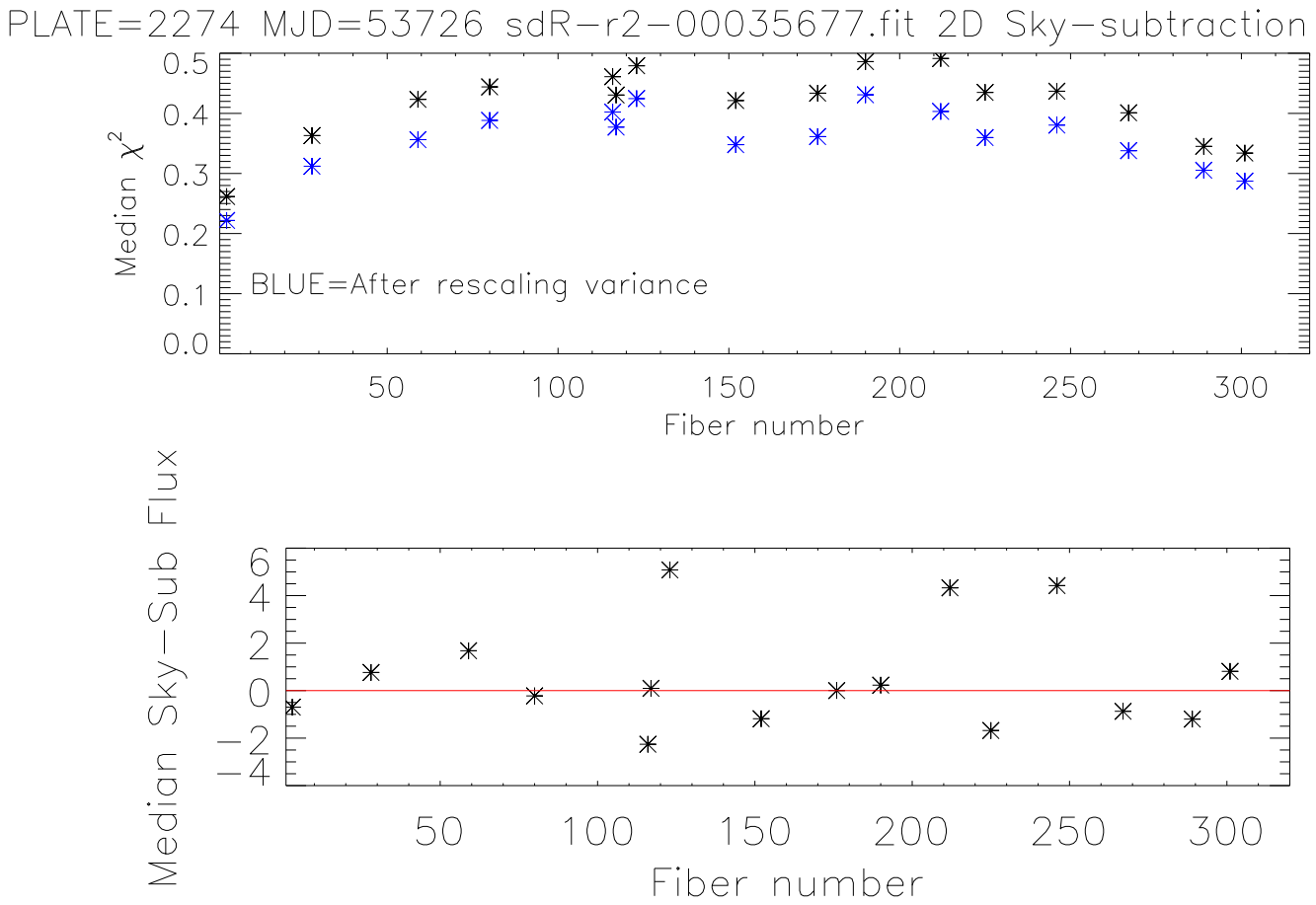

PLATE=2274 MJD=53726 Smooth superflat for sdR−r2−00035677.fit
2.0
1.5
1.0
0.5
0.0
1.008
1.006
1.004
1.002
1.000
0.998
0.996
0.994
6000
7000
8000
9000
Wavelength (Å)

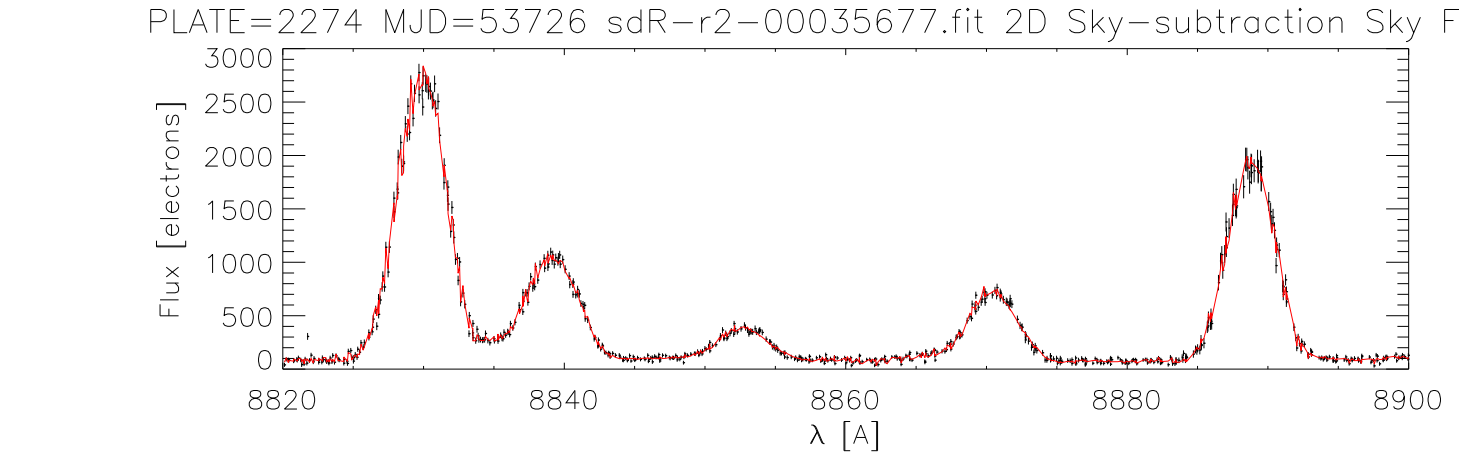

PLATE=2274 MJD=53726 sdR-r2-00035677.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
15
10
5
0
-5
-10
50
100
150
200
250
300
Fiber number

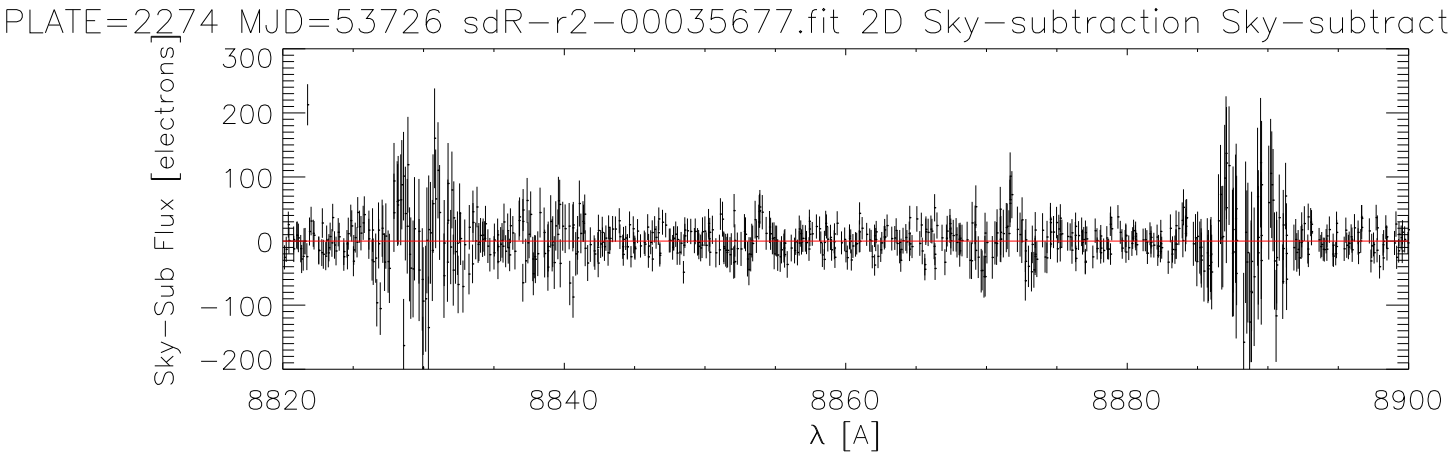

PLATE=2274 MJD=53726 sdR-r2-00035677.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

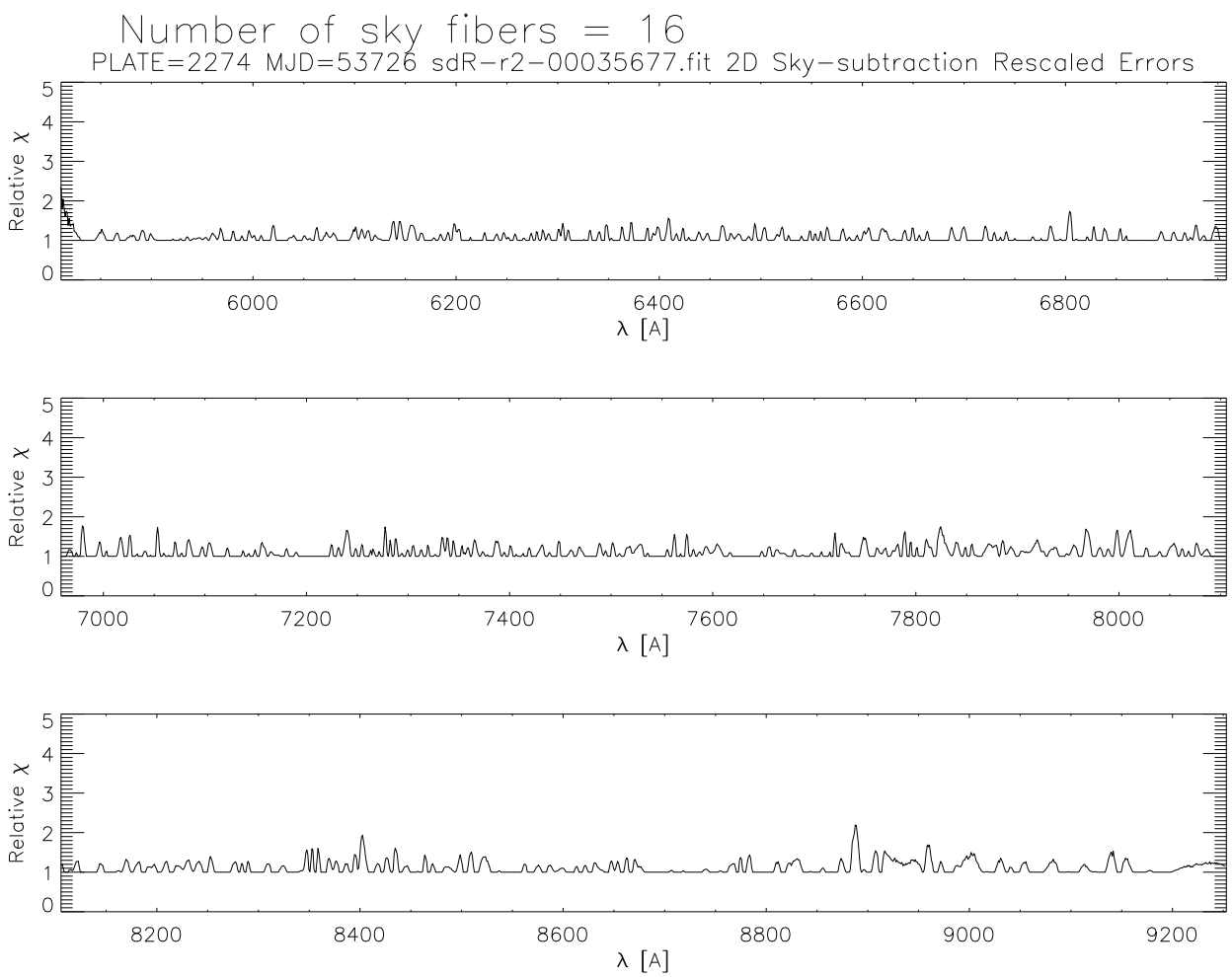

PLATE=2274 MJD=53726 sdR-r2-00035677.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

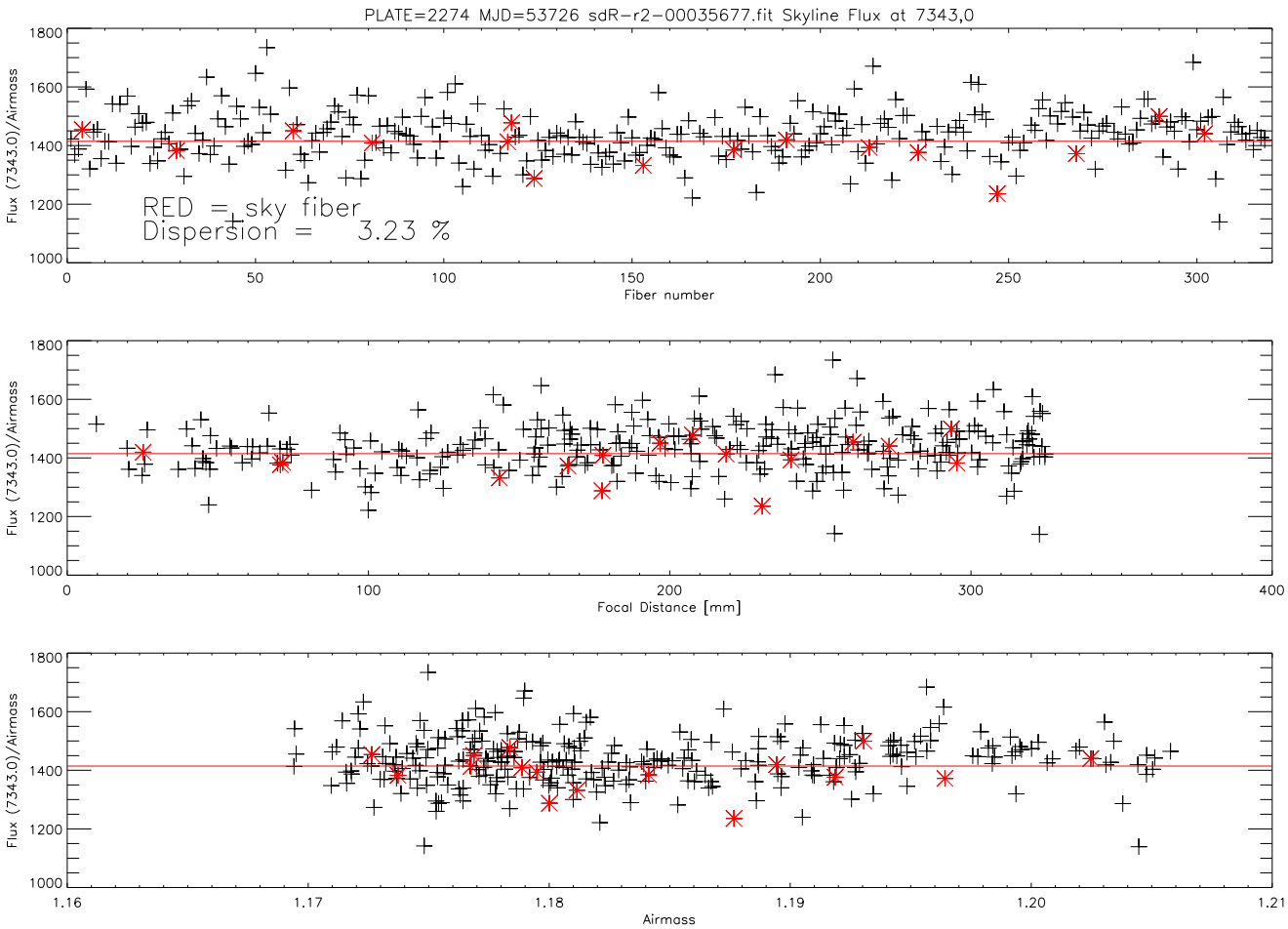

Number of sky fibers = 16
PLATE=2274 MJD=53726 sdR-r2-00035677.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

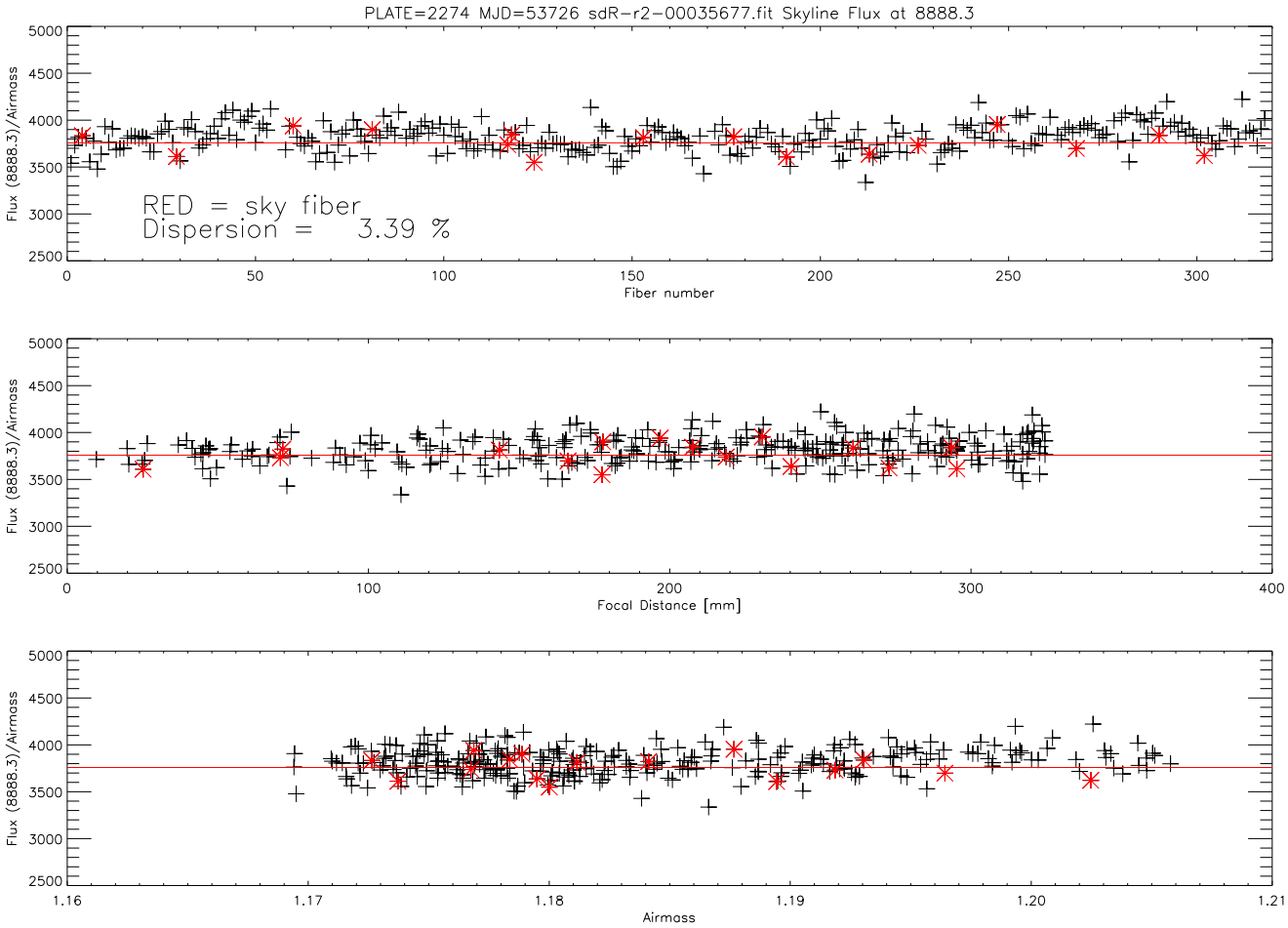

PLATE=2274 MJD=53726 sdR-r2-00035677.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

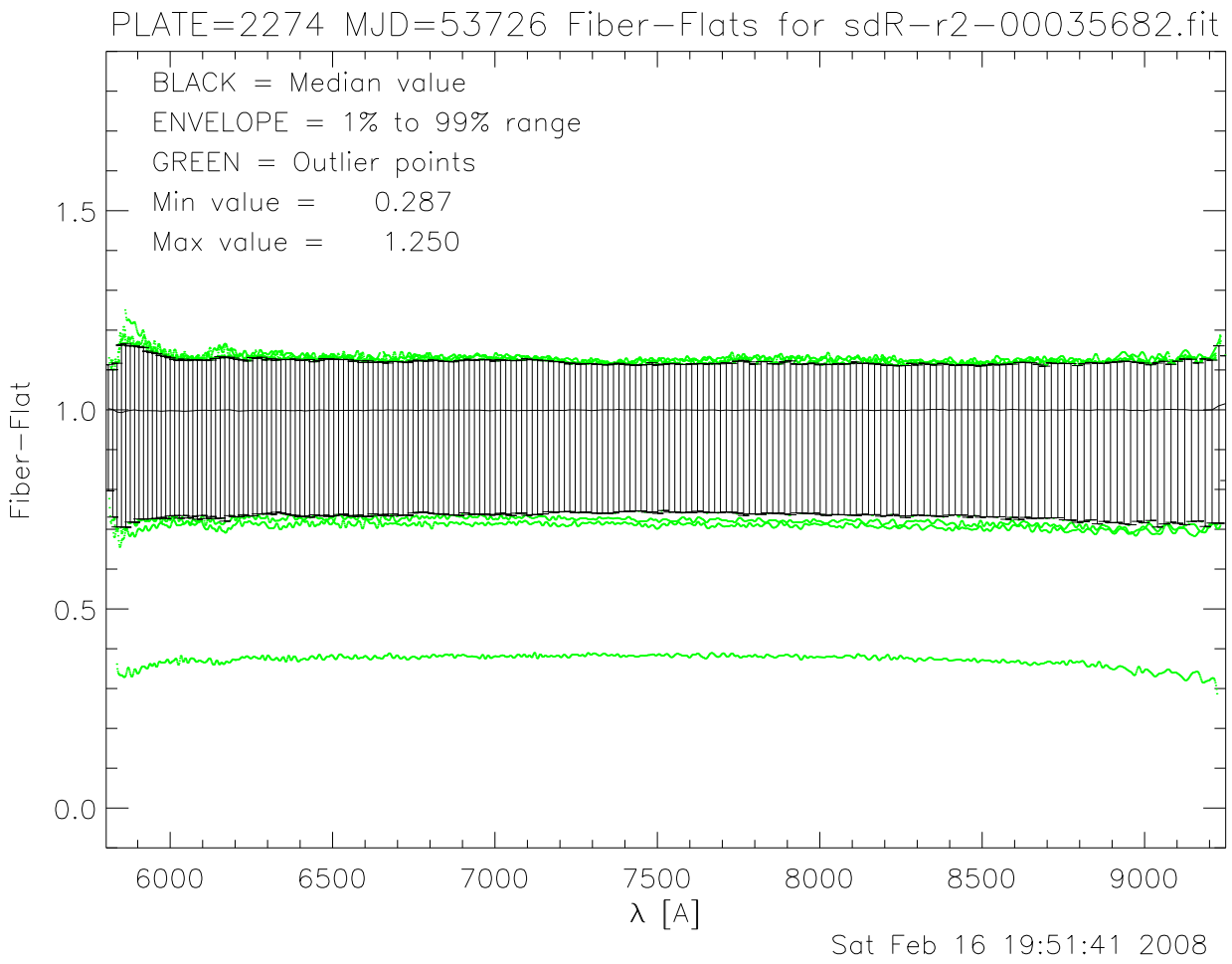

PLATE=2274 MJD=53726 sdR-r2-00035677.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

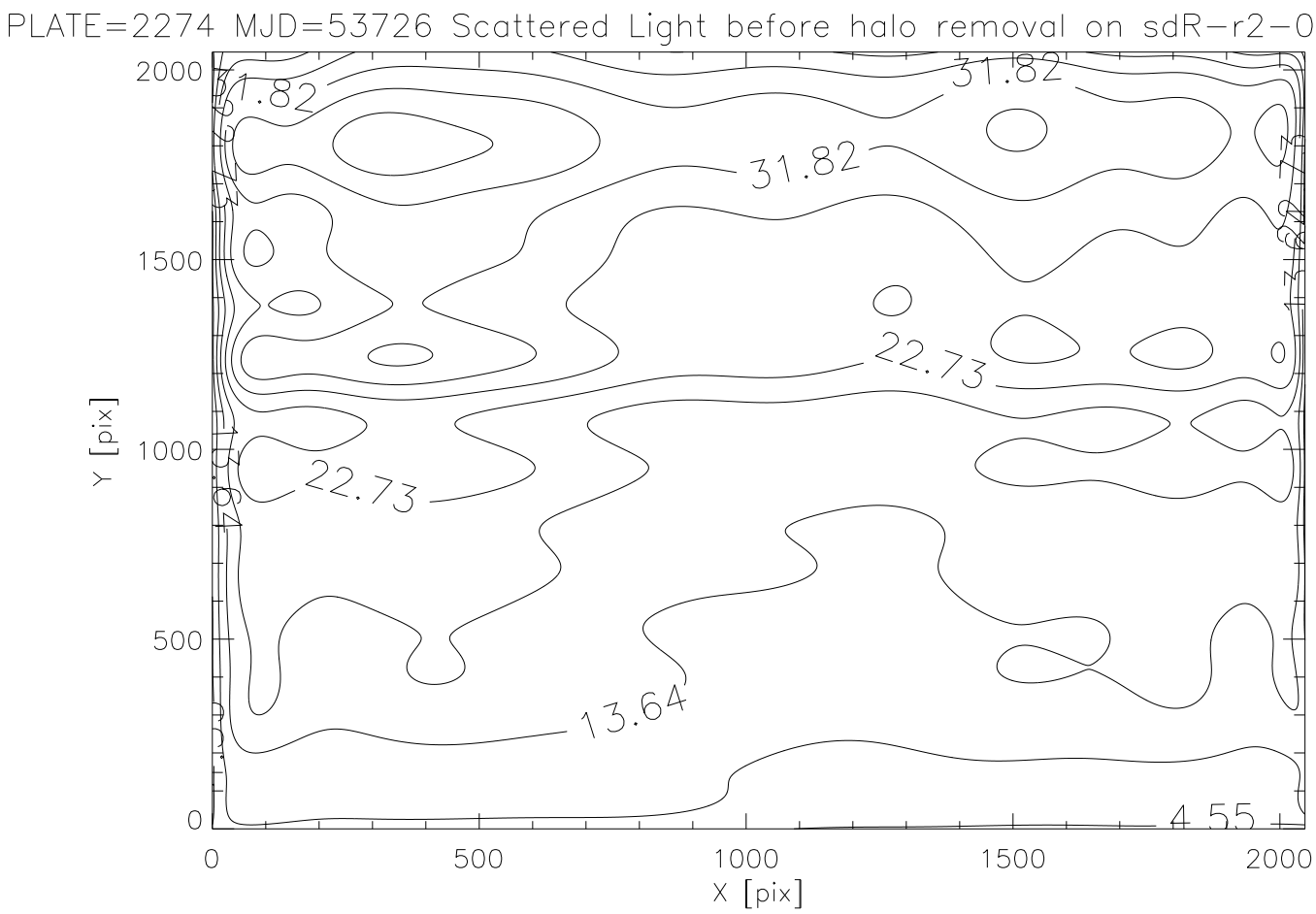

PLATE=2274 MJD=53726 sdR-r2-00035677.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

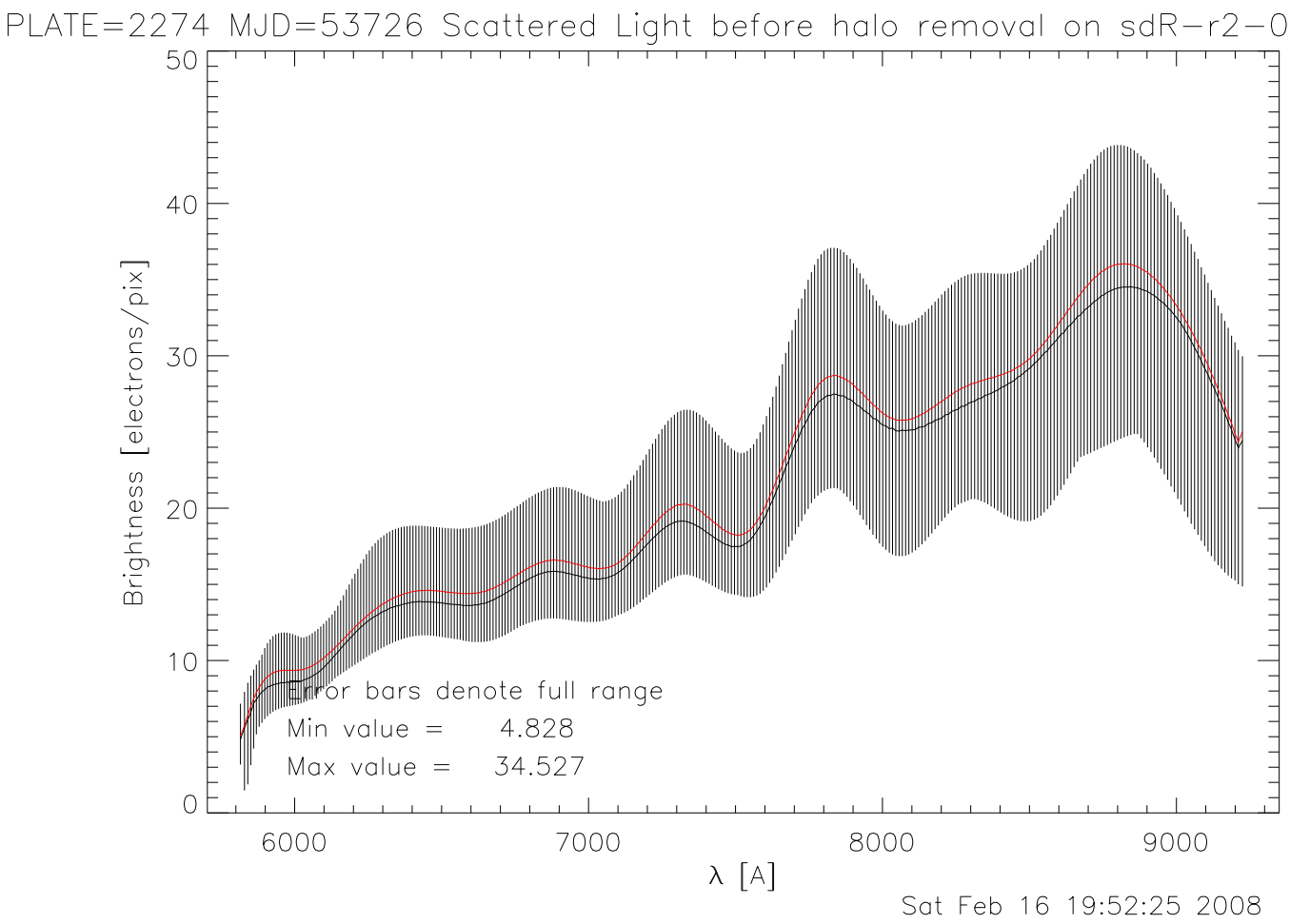

Number of sky fibers = 16
PLATE=2274 MJD=53726 sdR-r2-00035677.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

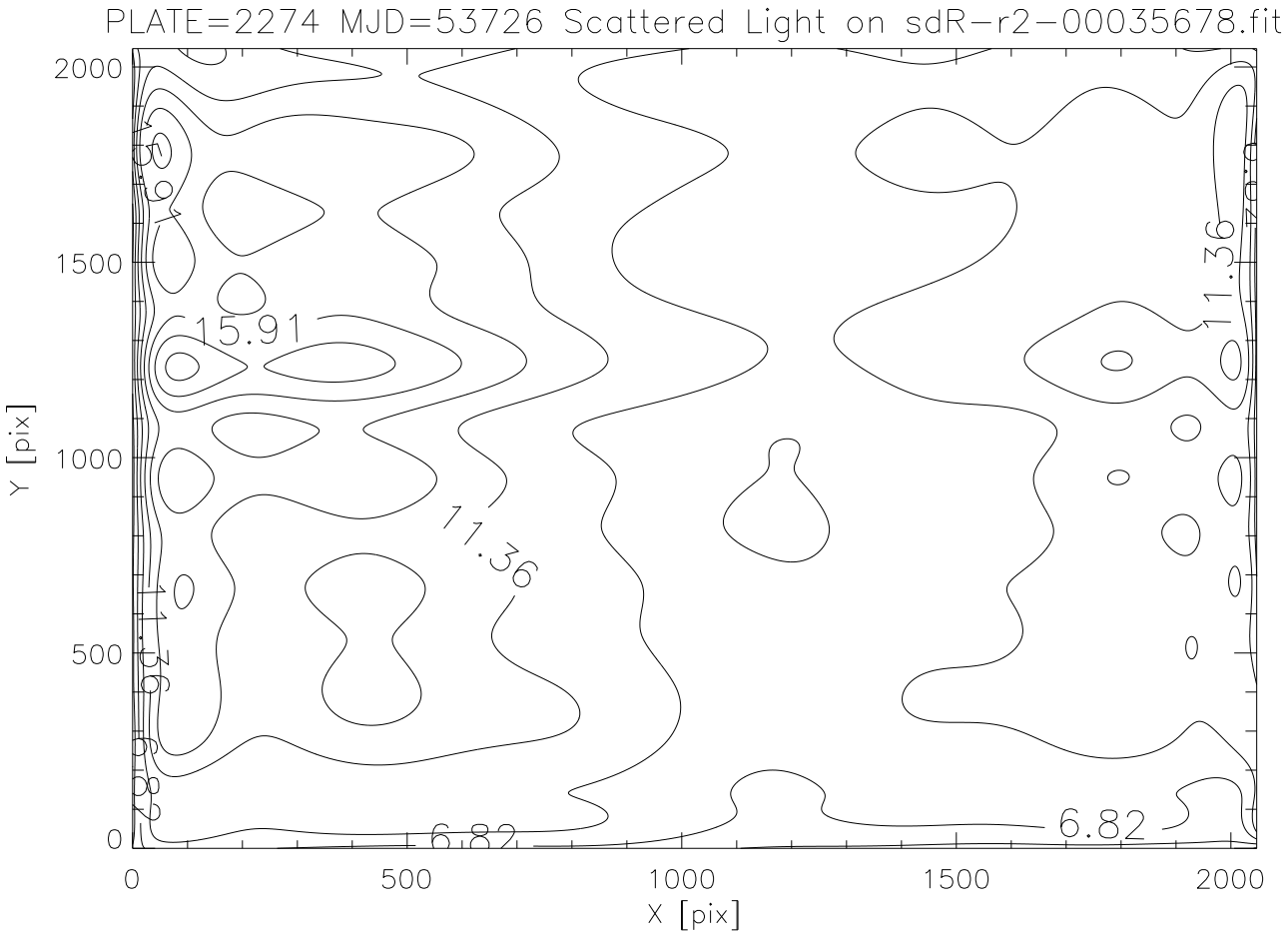

PLATE=2274 MJD=53726 sdR-r2-00035677.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.23 %
Fiber number
Focal Distance [mm]
Airmass

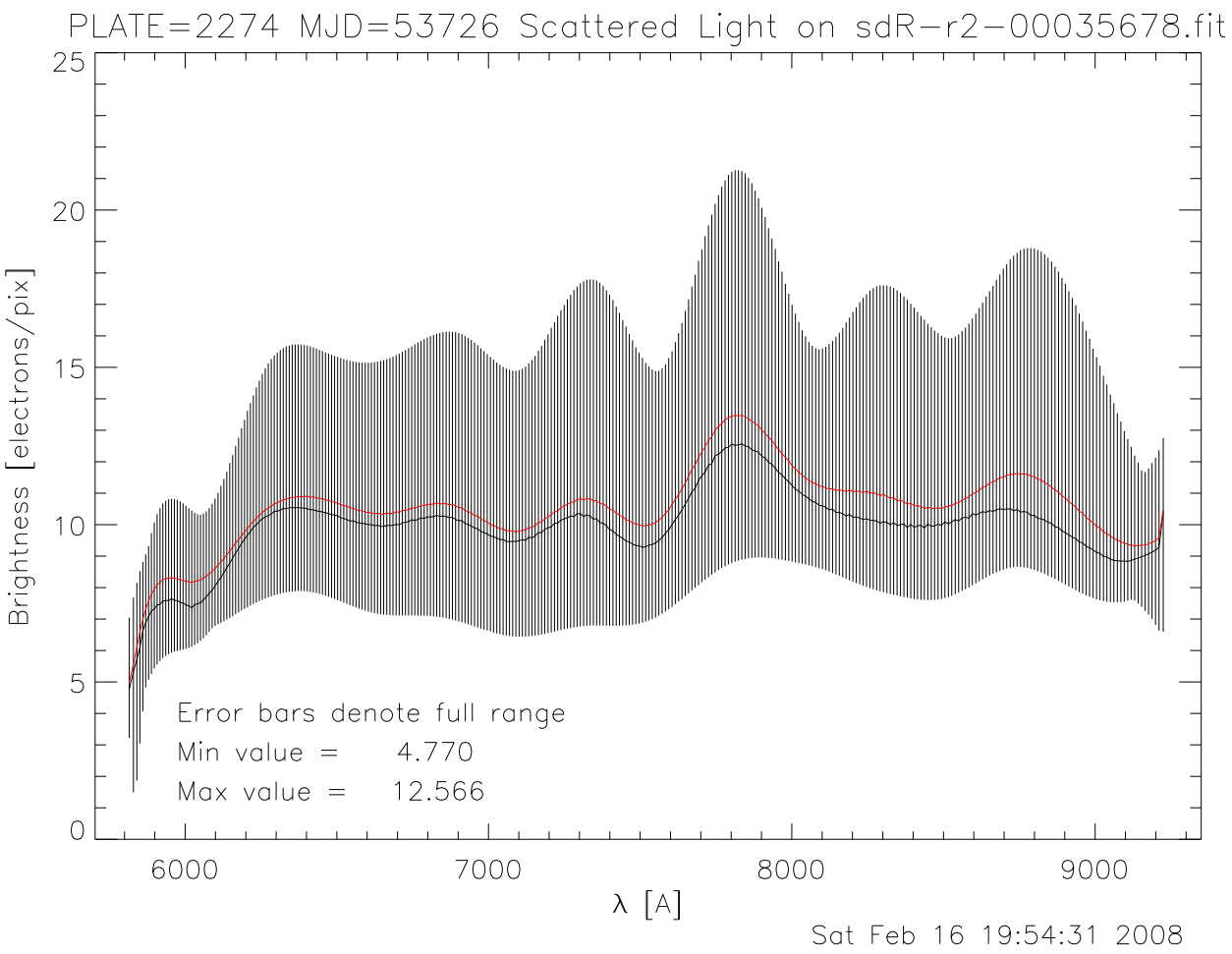

PLATE=2274 MJD=53726 sdR-r2-00035677.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.39 %
Fiber number
Focal Distance [mm]
Airmass

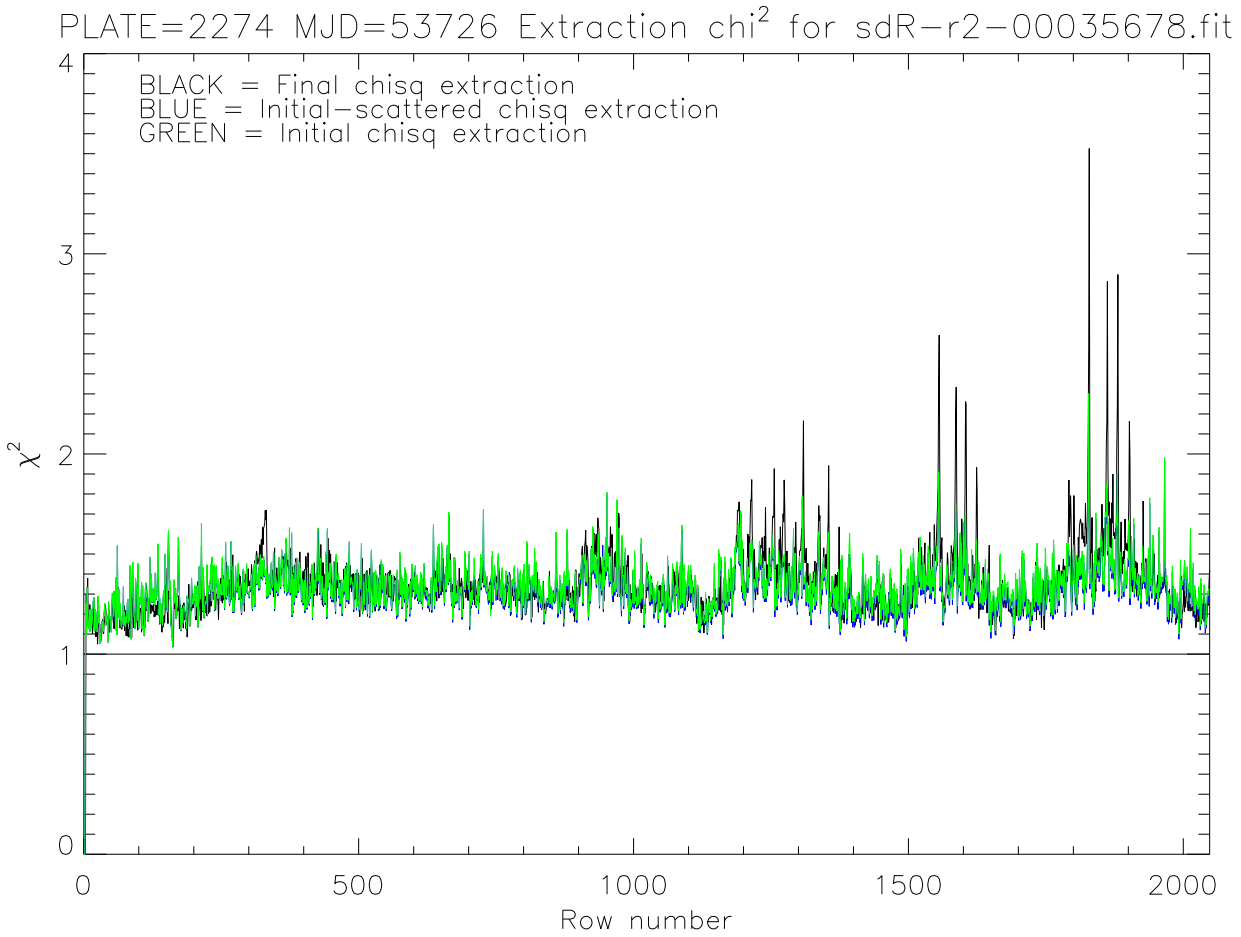

PLATE=2274 MJD=53726 Fiber−Flats for sdR−r2−00035682.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.287
Max value = 1.250
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sat Feb 16 19:51:41 2008

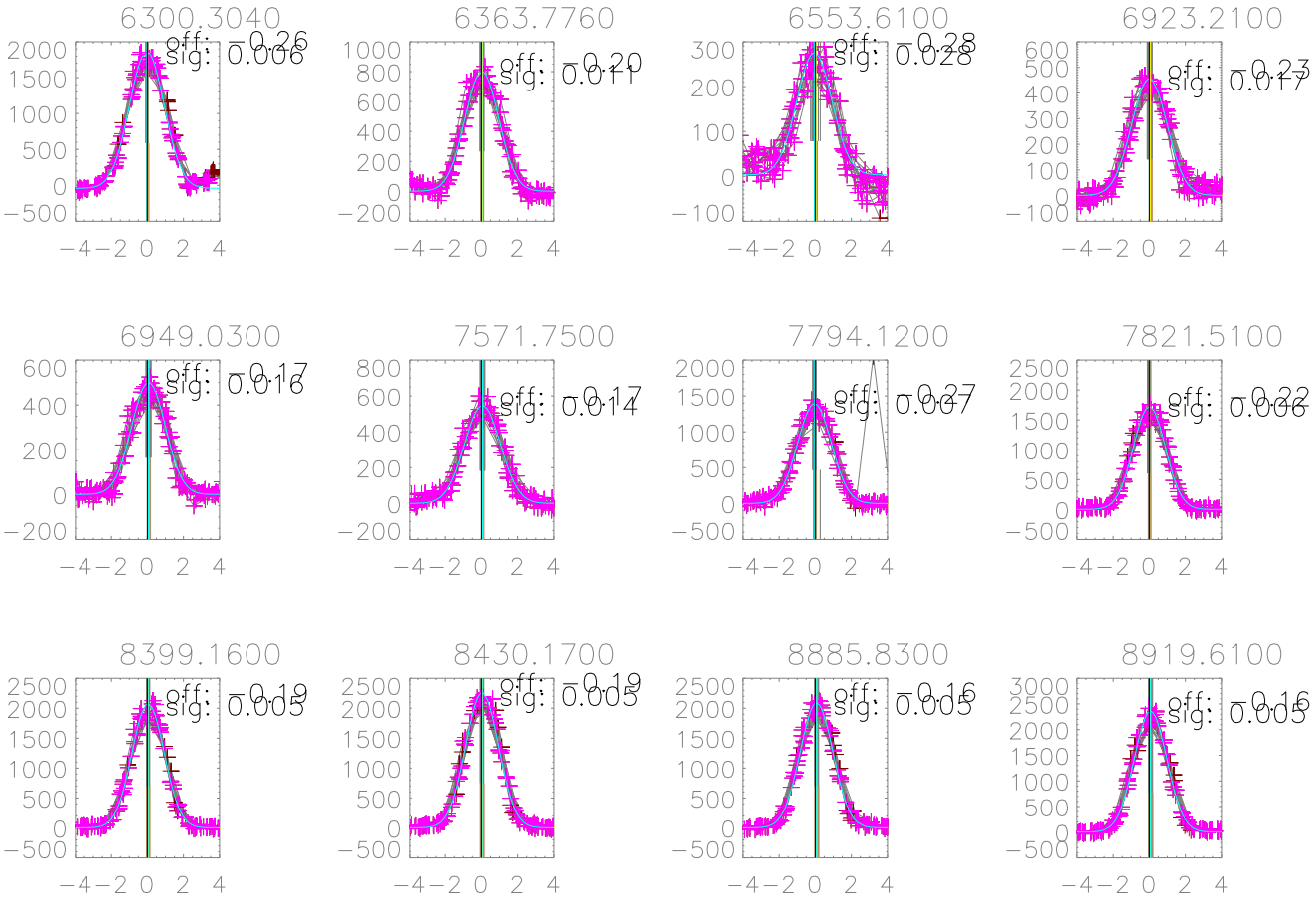

PLATE=2274 MJD=53726 Scattered Light before halo removal on sdR-r2-00035678.fi
31.82
31.82
31.82
22.73
22.73
13.64
4.55
0
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

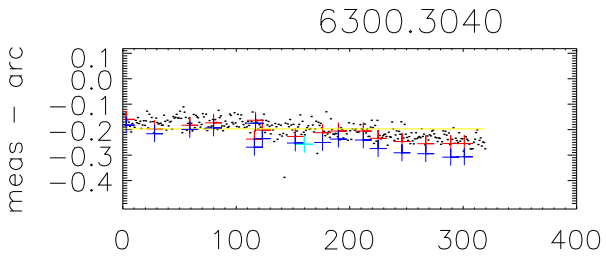

PLATE=2274 MJD=53726 Scattered Light before halo removal on sdR-r2-00035678.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.828
Max value = 34.527
Sat Feb 16 19:52:25 2008

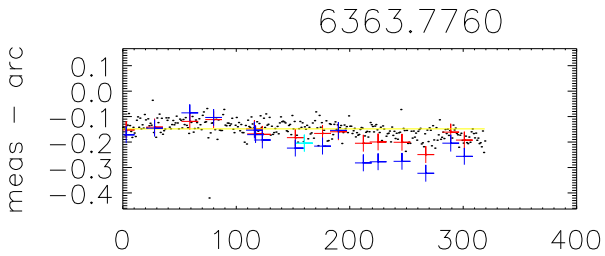

PLATE=2274 MJD=53726 Scattered Light on sdR-r2-00035678.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
15.91
11.36
6.82
0

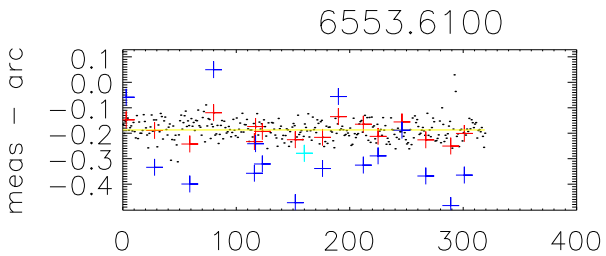

PLATE=2274 MJD=53726 Scattered Light on sdR-r2-00035678.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.770
Max value = 12.566
Sat Feb 16 19:54:31 2008

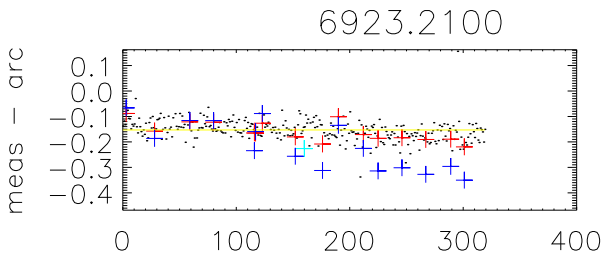

PLATE=2274 MJD=53726 Extraction chi^2 for sdR−r2−00035678.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

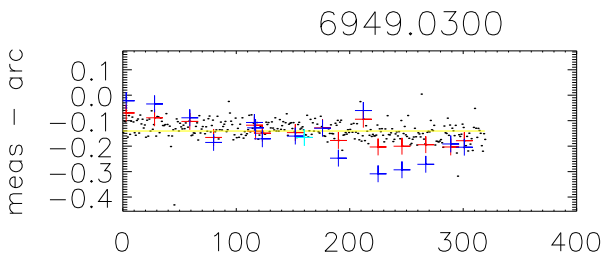

6300.3040
off: −0.26
sig: 0.006
6363.7760
off: −0.20
sig: 0.011
6553.6100
off: −0.28
sig: 0.028
6923.2100
off: −0.23
sig: 0.017
6949.0300
off: −0.17
sig: 0.016
7571.7500
off: −0.17
sig: 0.014
7794.1200
off: −0.27
sig: 0.007
7821.5100
off: −0.22
sig: 0.006
8399.1600
off: −0.19
sig: 0.005
8430.1700
off: −0.19
sig: 0.005
8885.8300
off: −0.16
sig: 0.005
8919.6100
off: −0.16
sig: 0.005

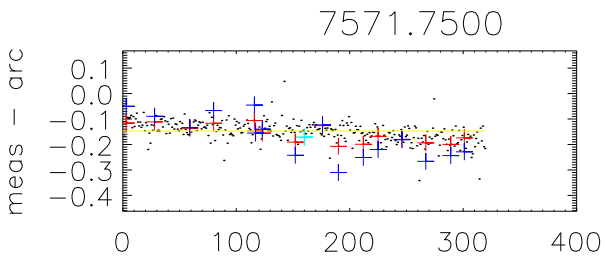

6300.3040
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

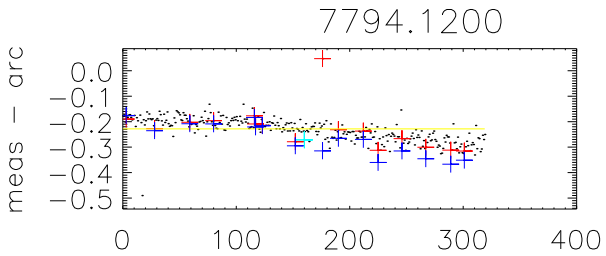

6363.7760
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

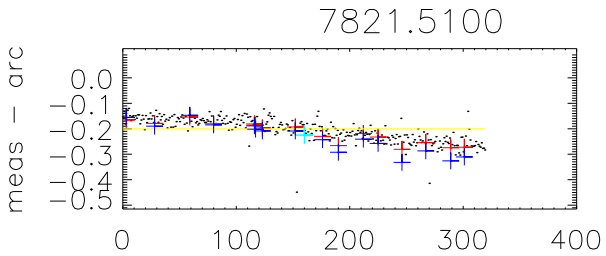

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

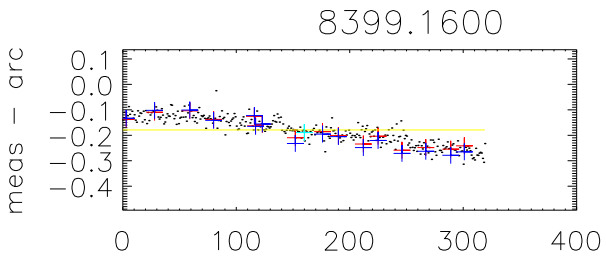

6923.2100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

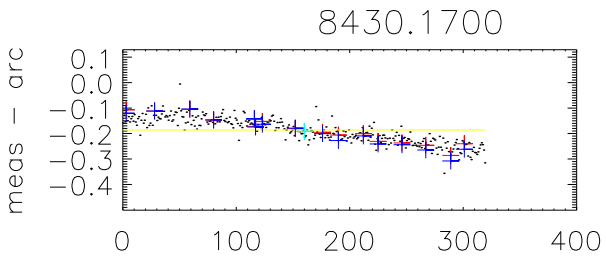

6949.0300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

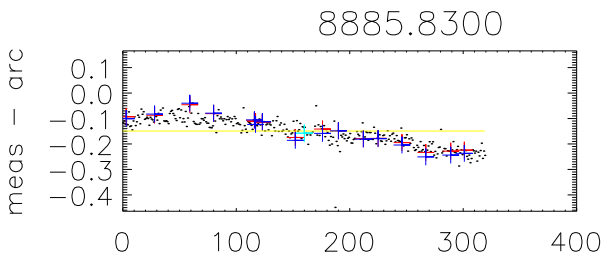

7571.7500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

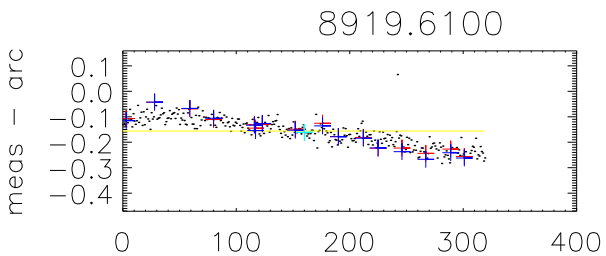

7794.1200
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

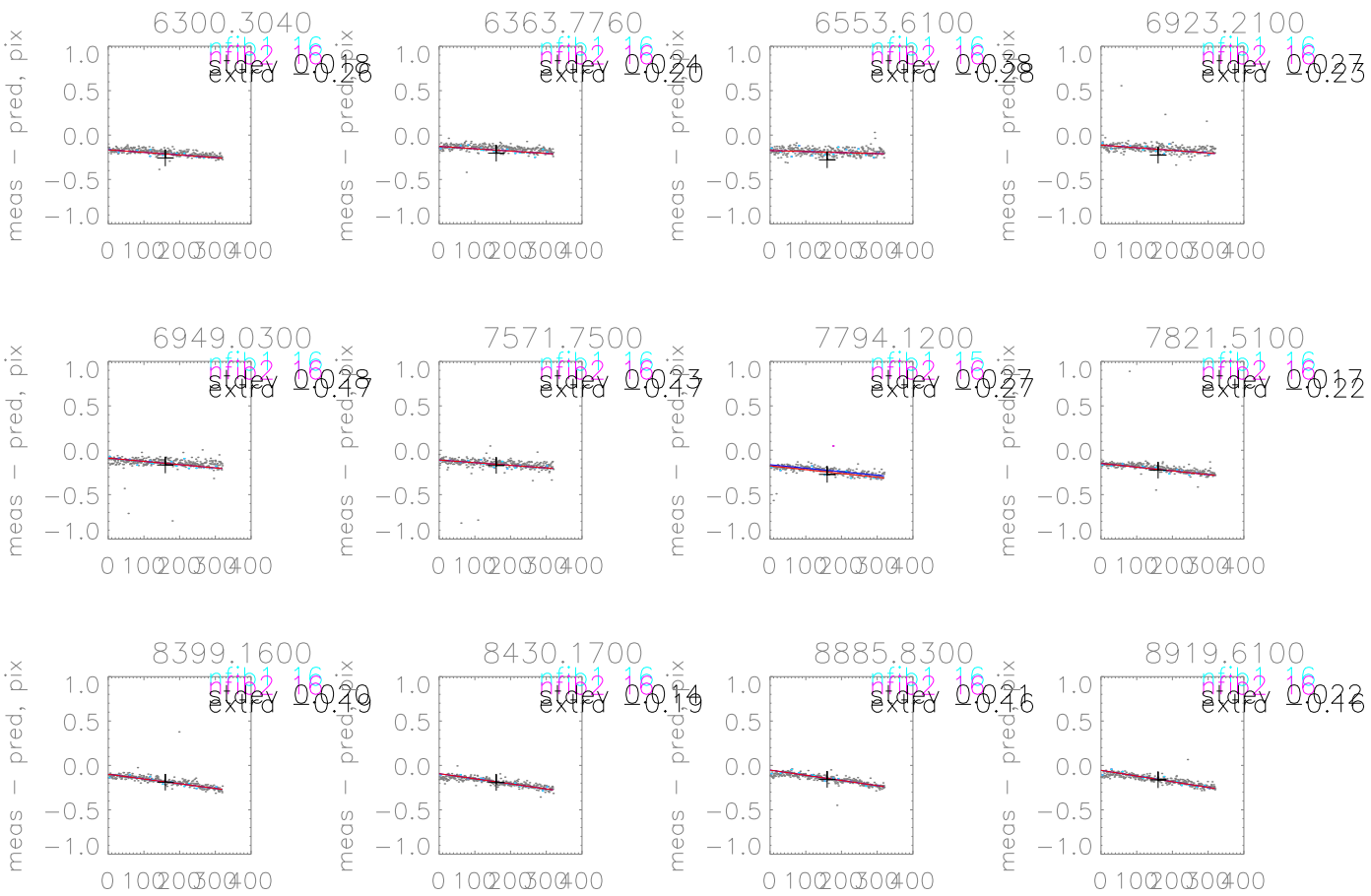

7821.5100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

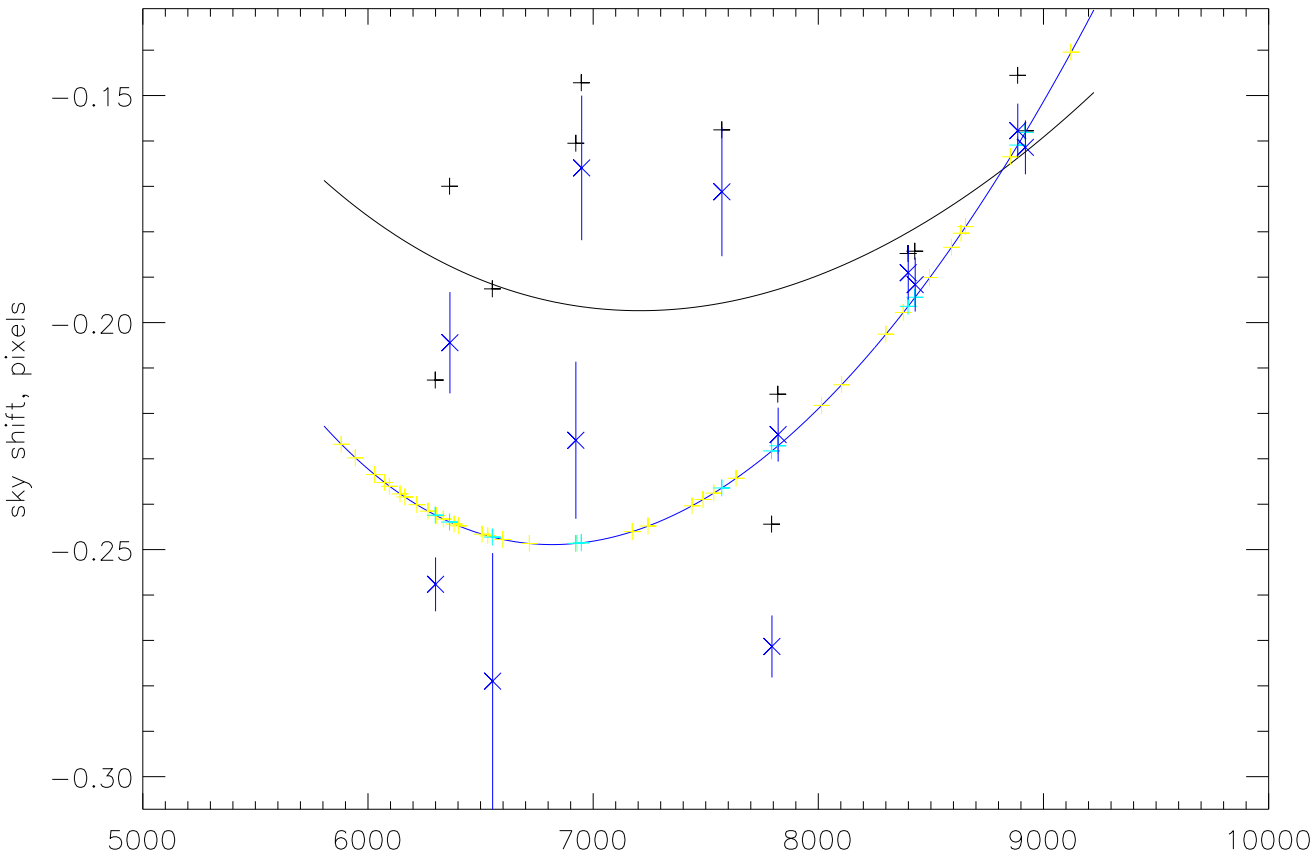

8399.1600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

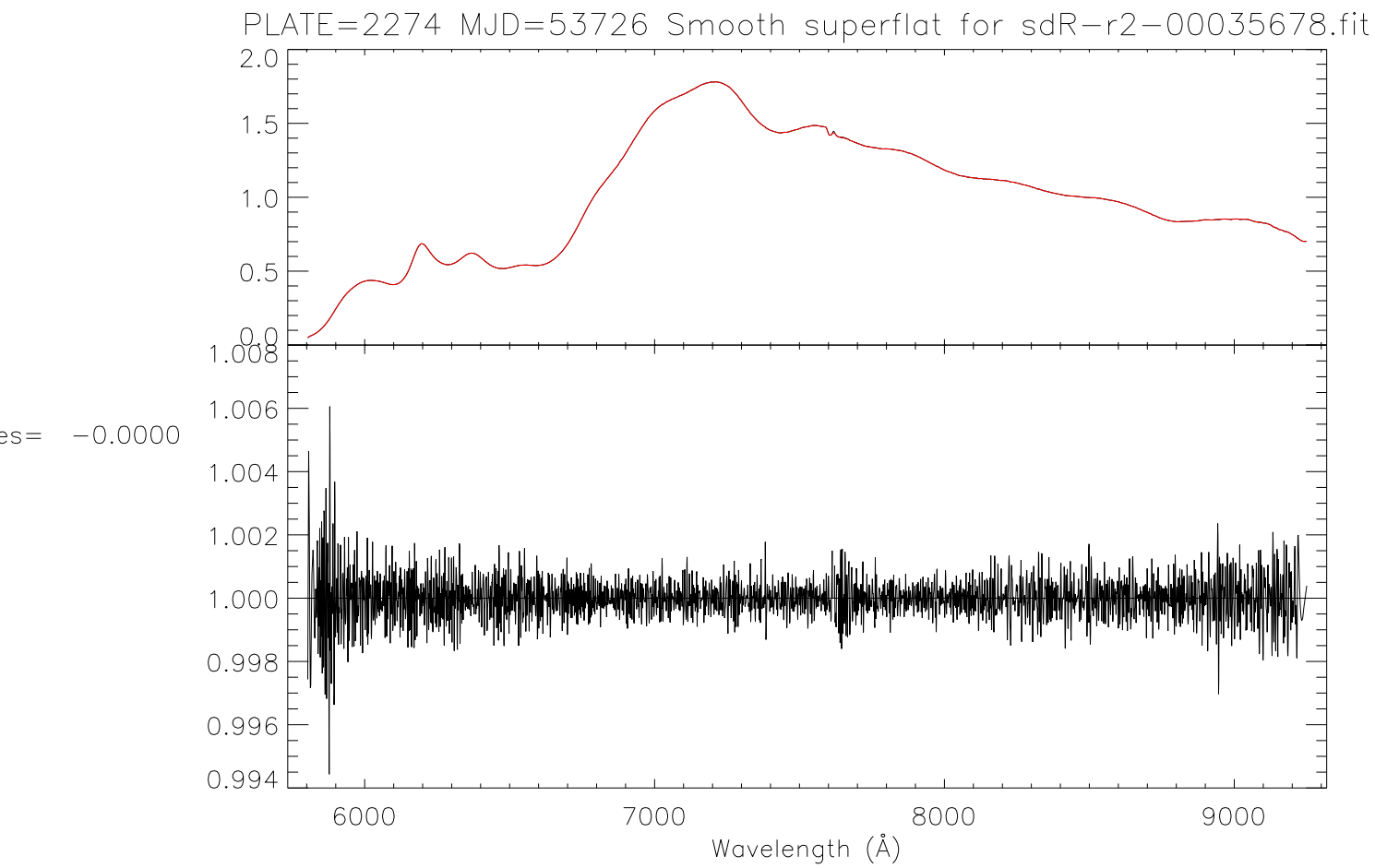

8430.1700
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


8885.8300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

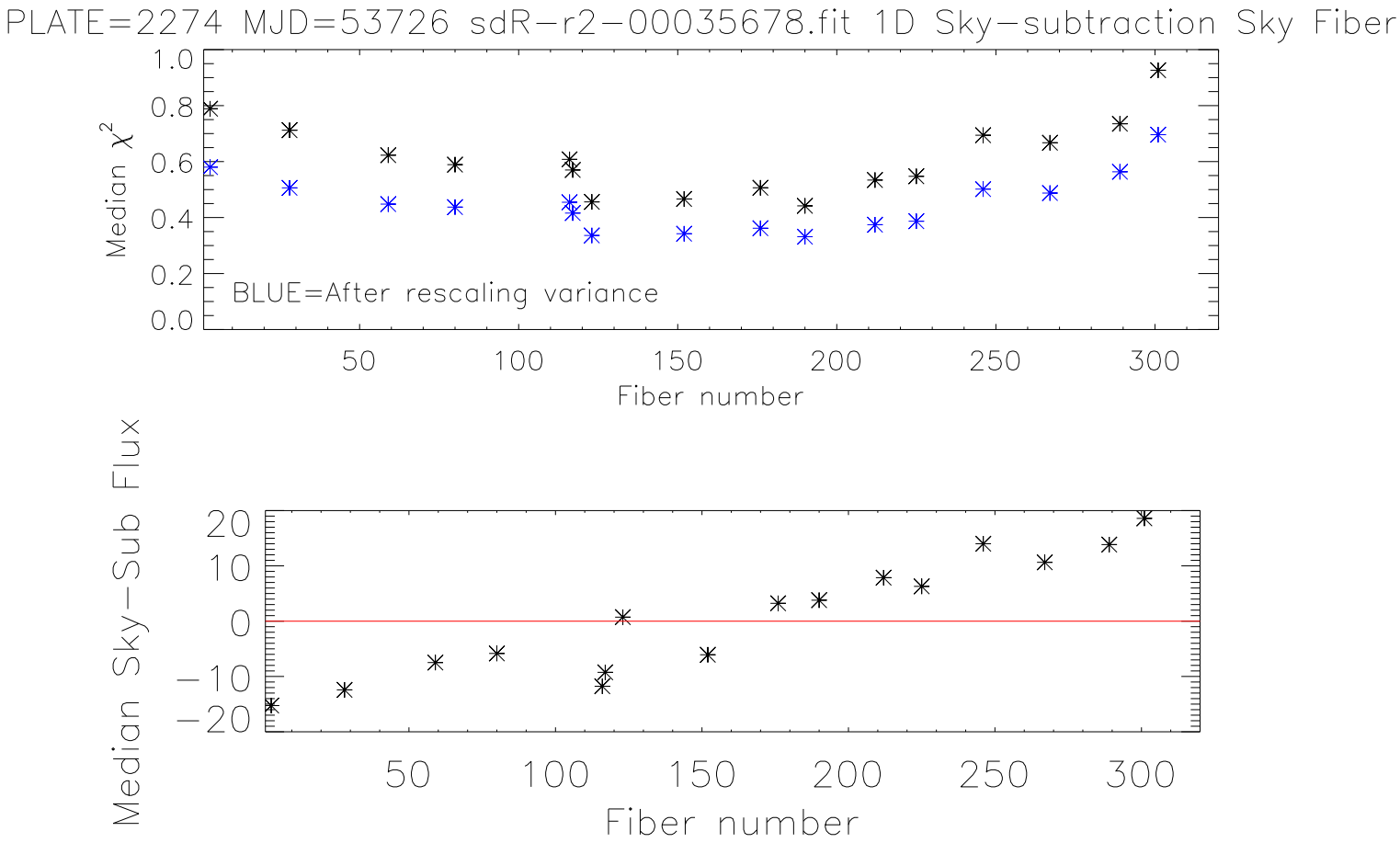

8919.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

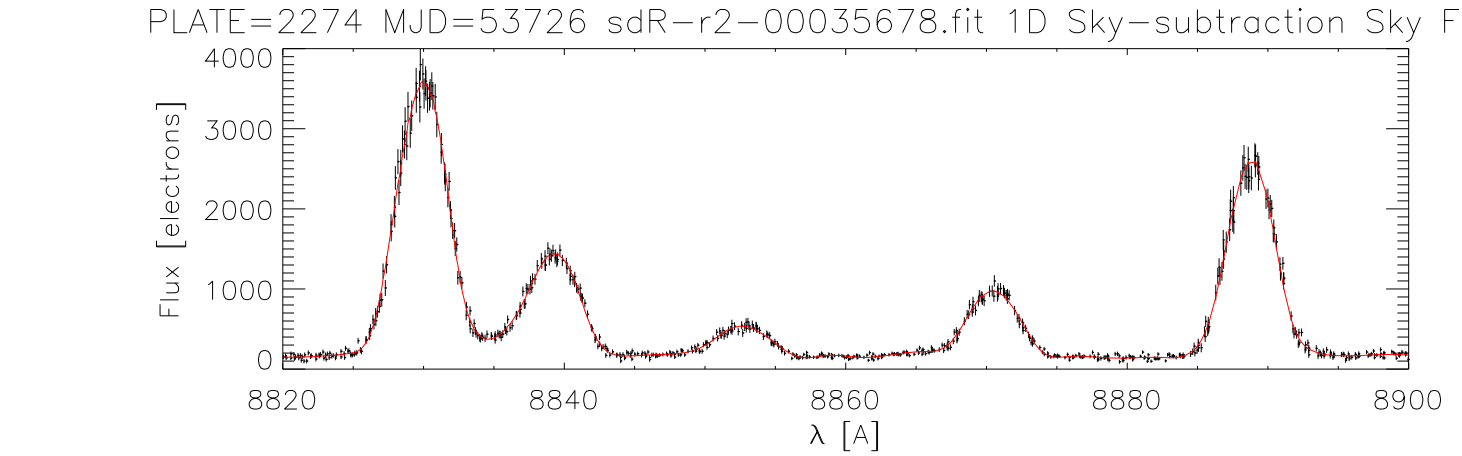

6300.3040
6363.7760
6553.6100
6923.2100
6949.0300
7571.7500
7794.1200
7821.5100
8399.1600
8430.1700
8885.8300
8919.6100
meas − pred, pix
mfhs2 16
stdev 0.028
extra 0.26
stdev 0.024
extra 0.20
stdev 0.038
extra 0.28
stdev 0.027
extra 0.23
stdev 0.028
extra 0.49
stdev 0.023
extra 0.47
stdev 0.027
extra 0.27
stdev 0.017
extra 0.22
stdev 0.020
extra 0.49
stdev 0.014
extra 0.19
stdev 0.021
extra 0.46
stdev 0.022
extra 0.46

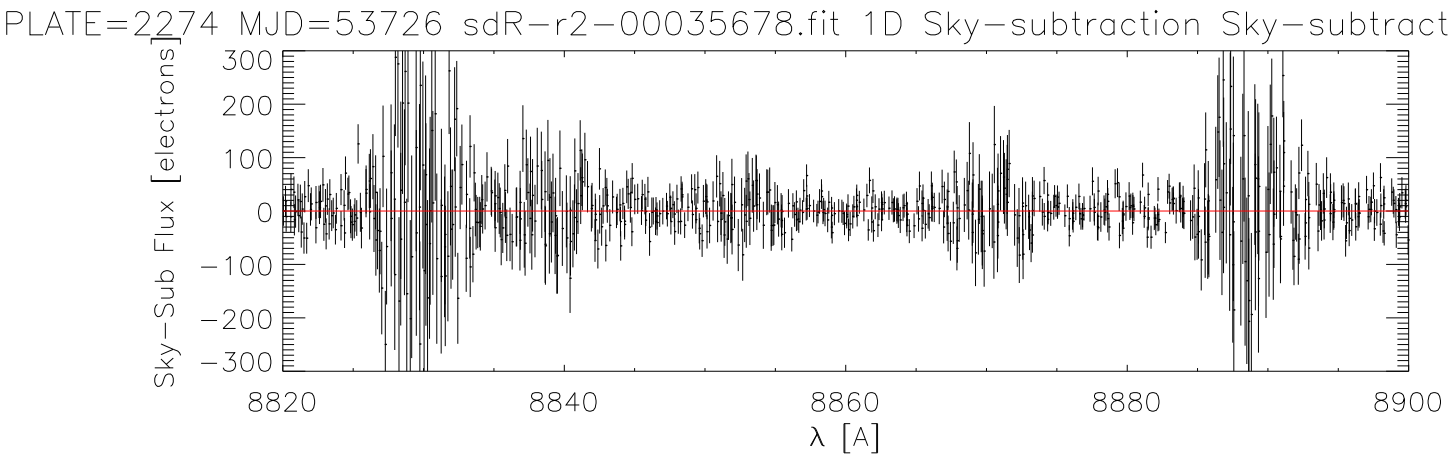

−0.15
−0.20
−0.25
−0.30
sky shift, pixels
5000
6000
7000
8000
9000
10000

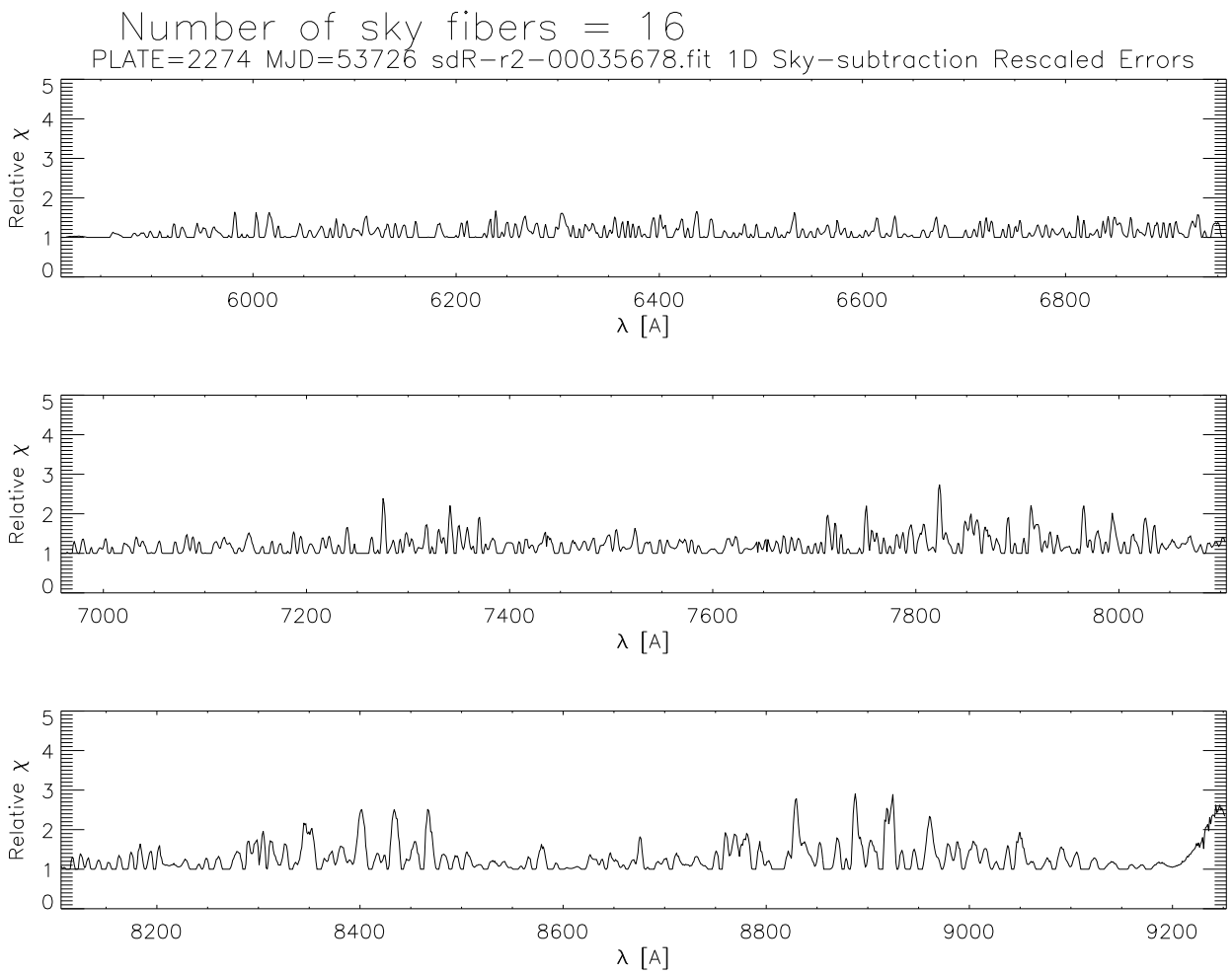

PLATE=2274 MJD=53726 Smooth superflat for sdR-r2-00035678.fit
2.0
1.5
1.0
0.5
0.0
1.008
1.006
1.004
1.002
1.000
0.998
0.996
0.994
6000
7000
8000
9000
Wavelength (Å)

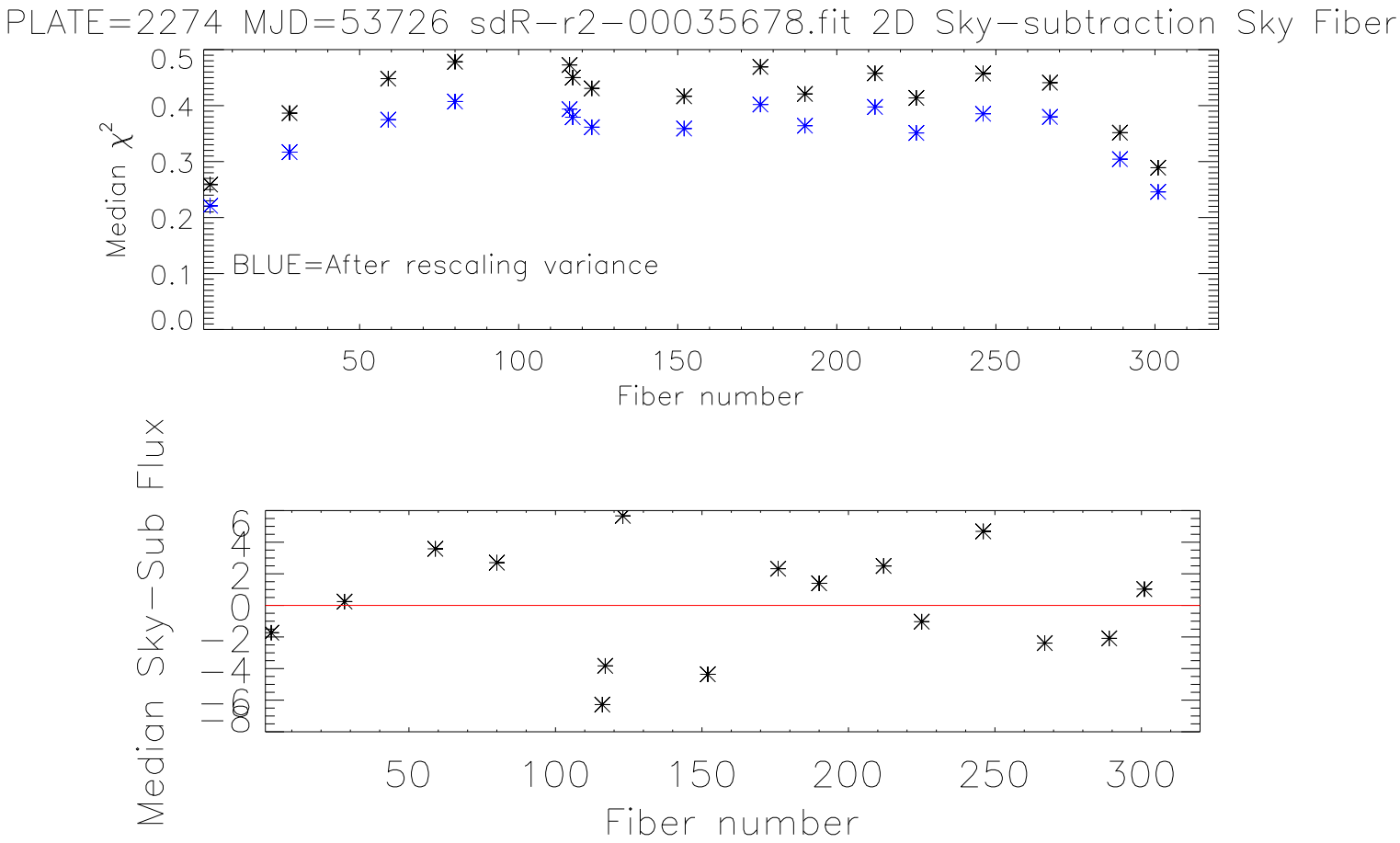
es= −0.0000

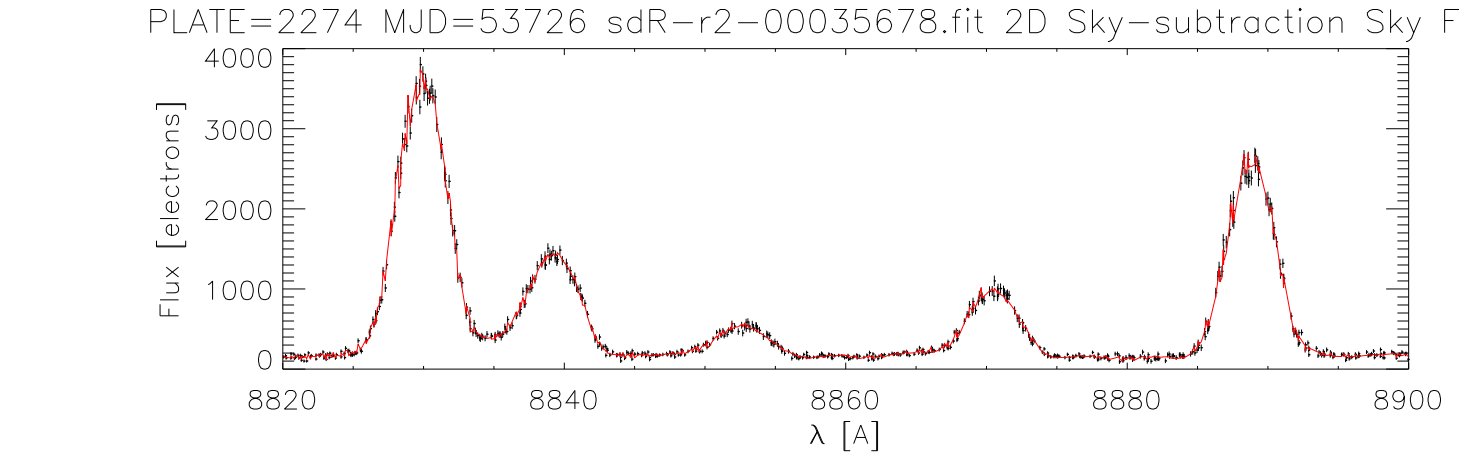

PLATE=2274 MJD=53726 sdR-r2-00035678.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

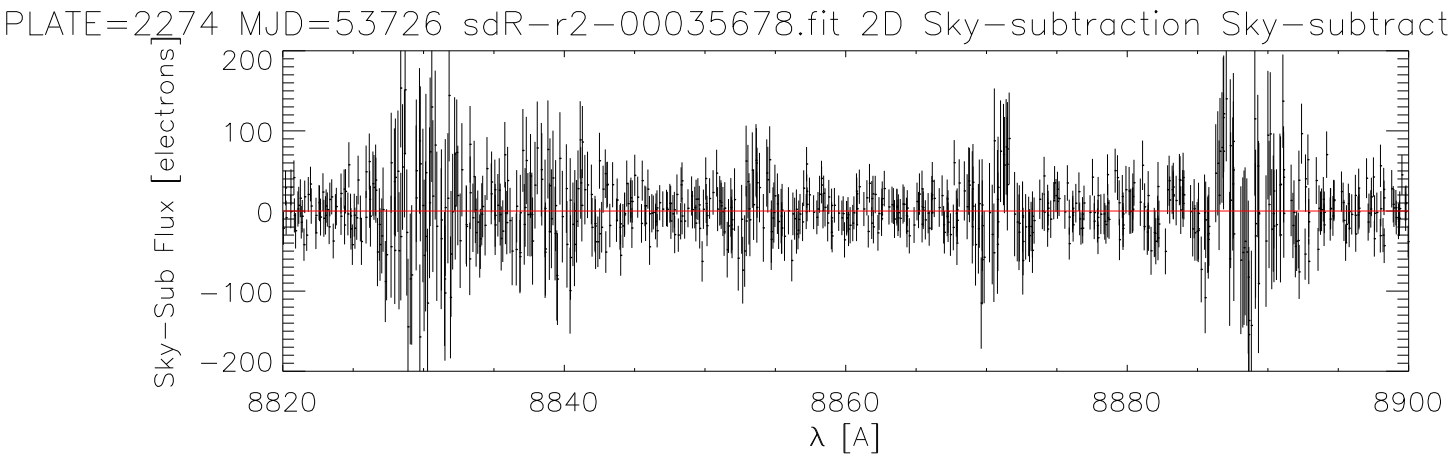

PLATE=2274 MJD=53726 sdR-r2-00035678.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

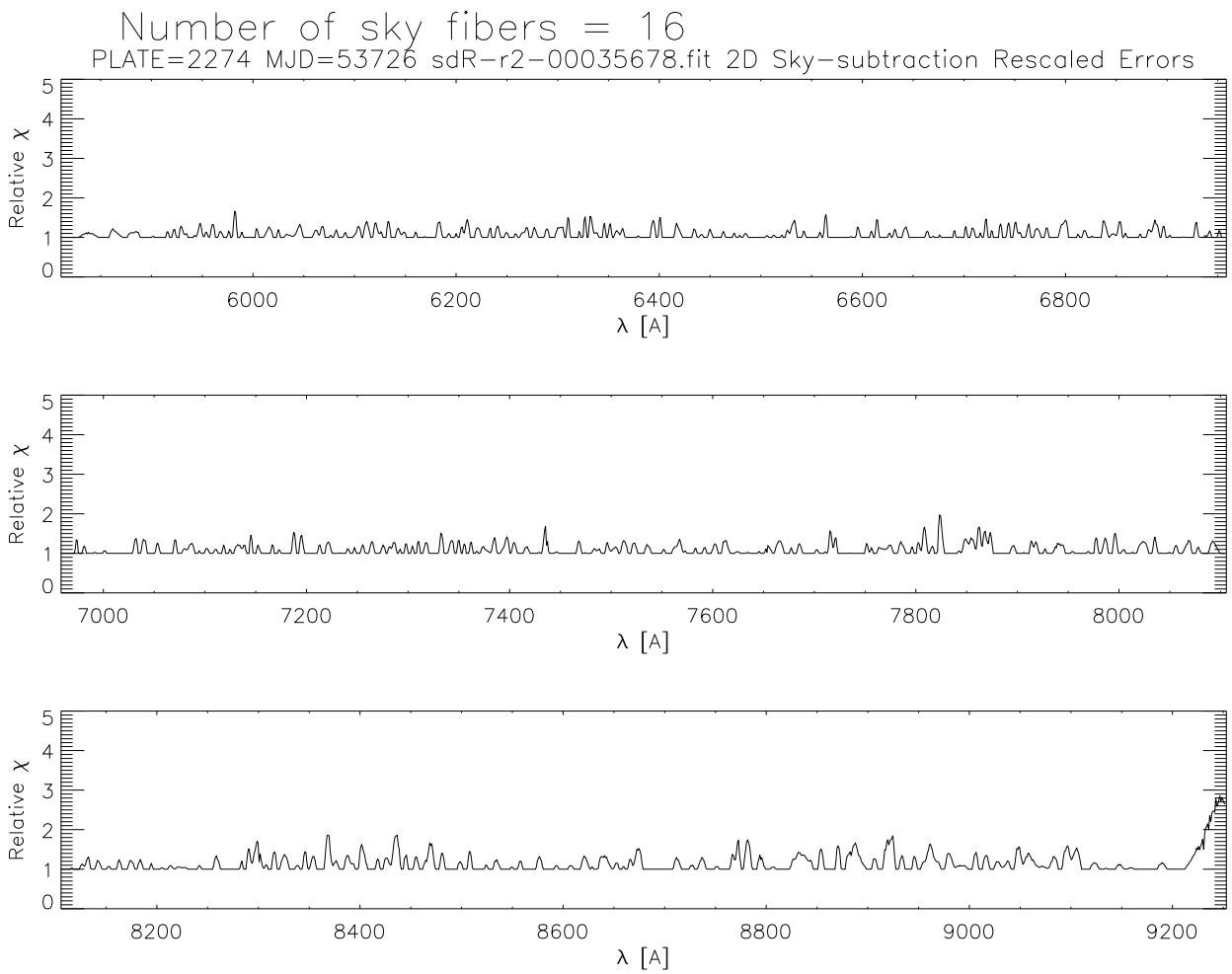

PLATE=2274 MJD=53726 sdR-r2-00035678.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

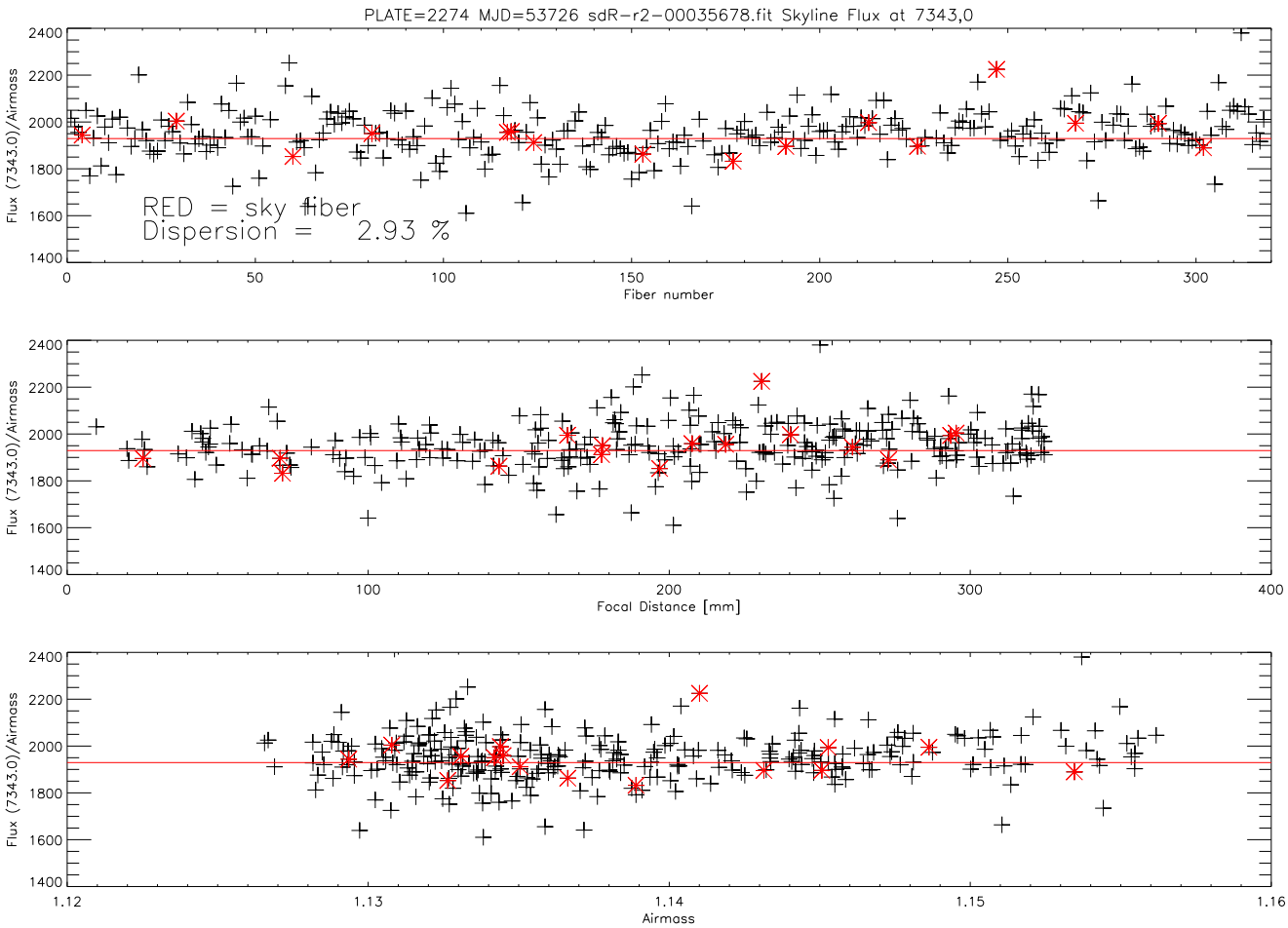

Number of sky fibers = 16
PLATE=2274 MJD=53726 sdR-r2-00035678.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

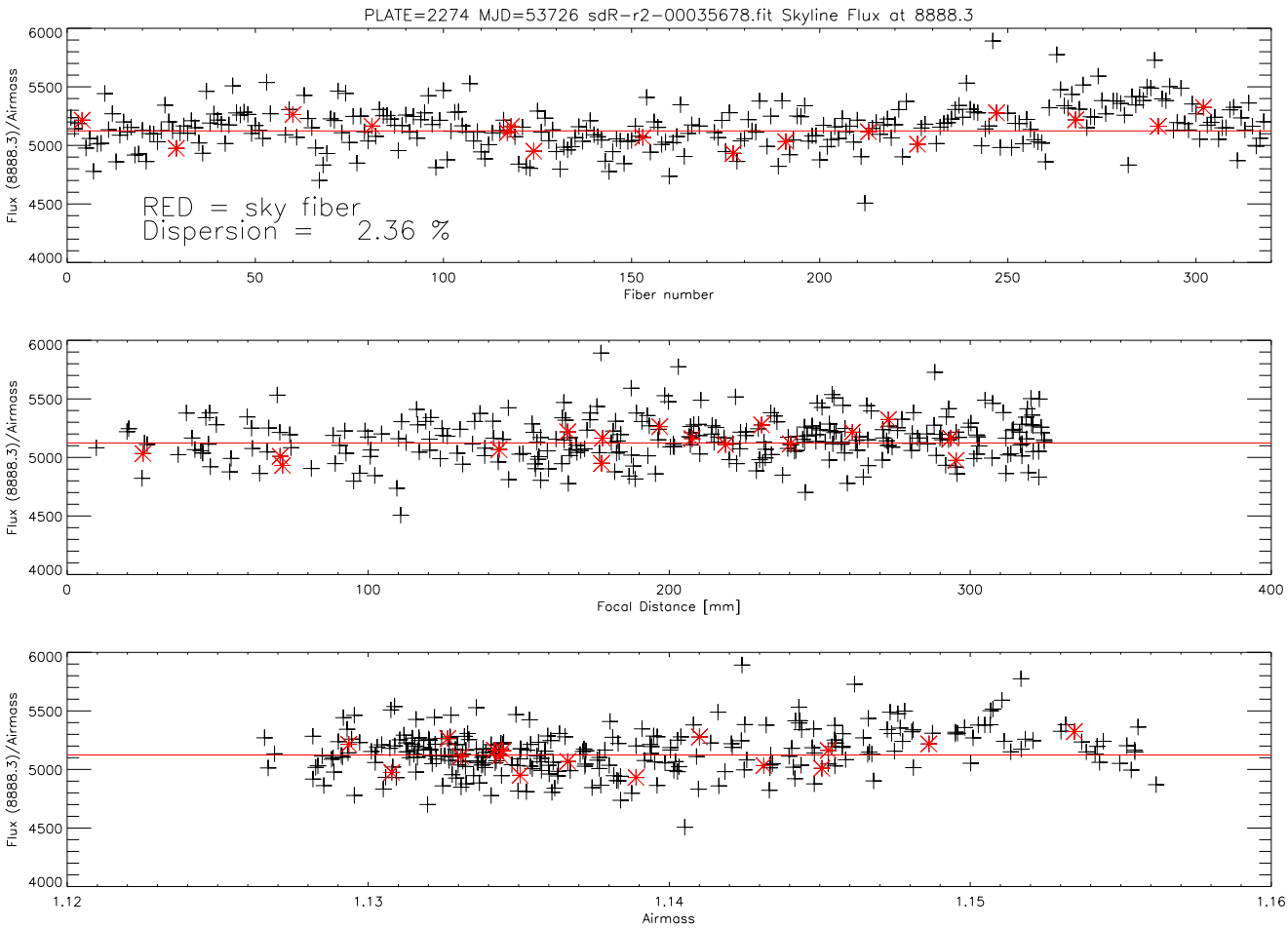

PLATE=2274 MJD=53726 sdR-r2-00035678.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-11.4
-11.2
-11.0
-10.8
-10.6
50
100
150
200
250
300
Fiber number

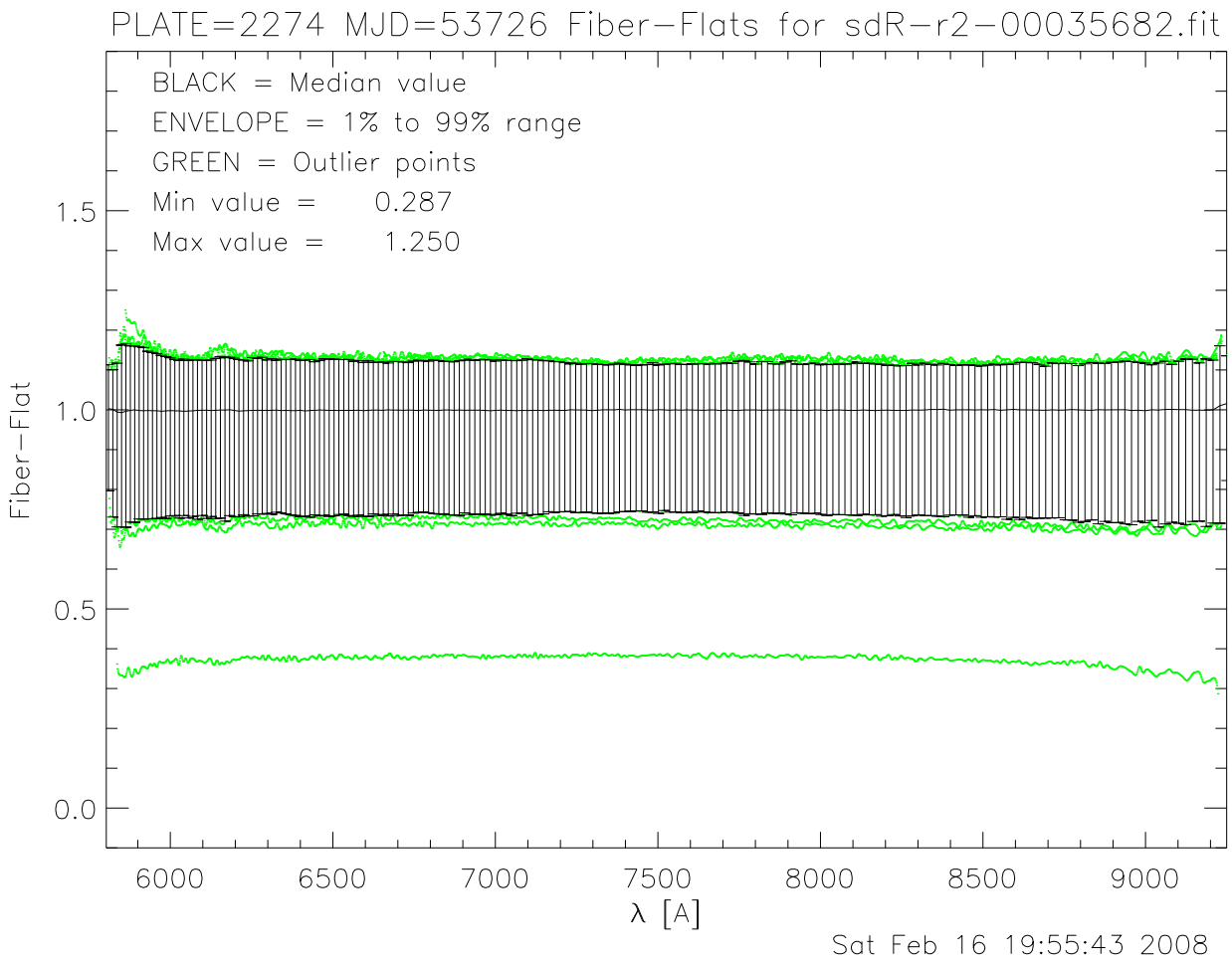

PLATE=2274 MJD=53726 sdR-r2-00035678.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

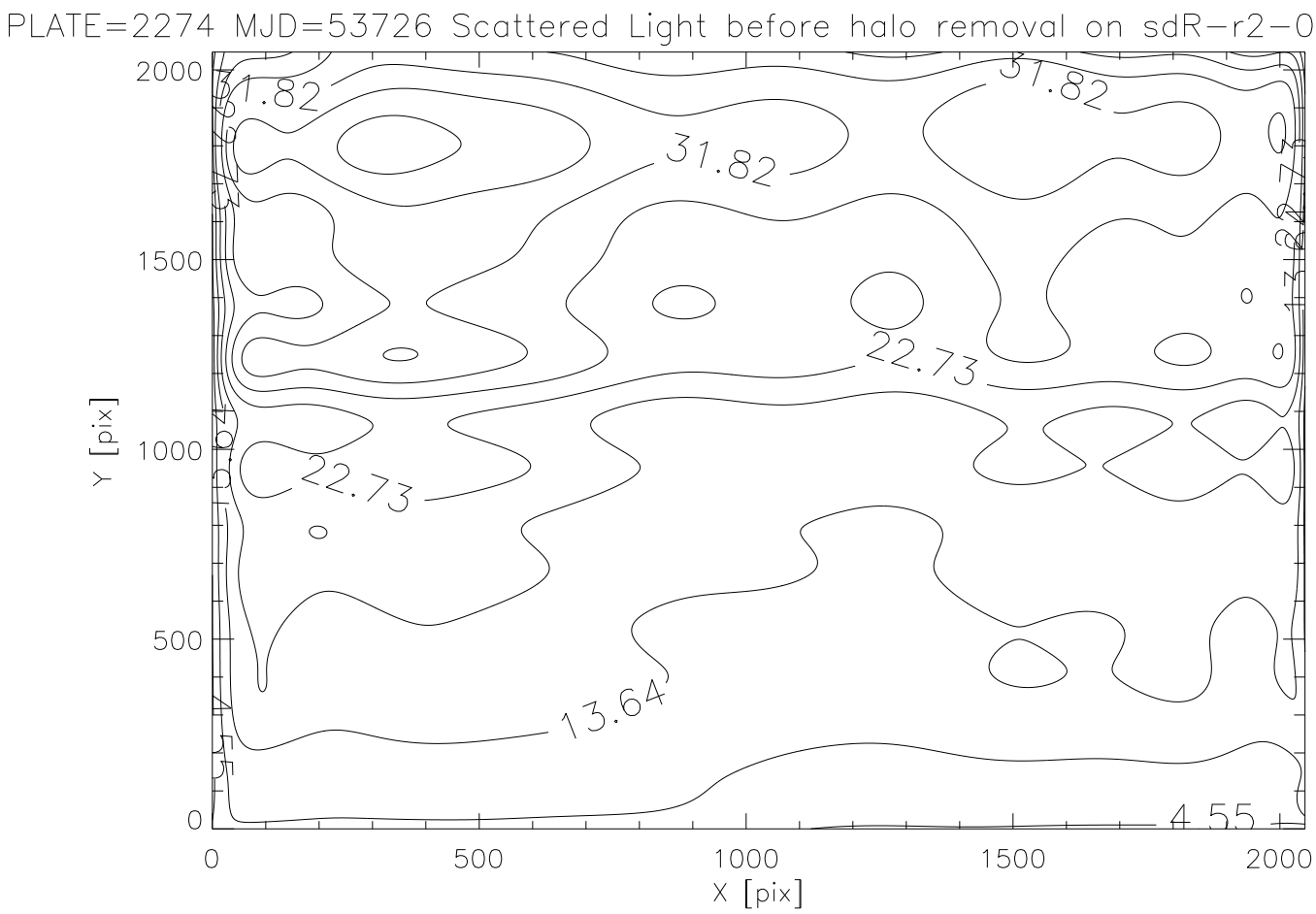

PLATE=2274 MJD=53726 sdR-r2-00035678.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

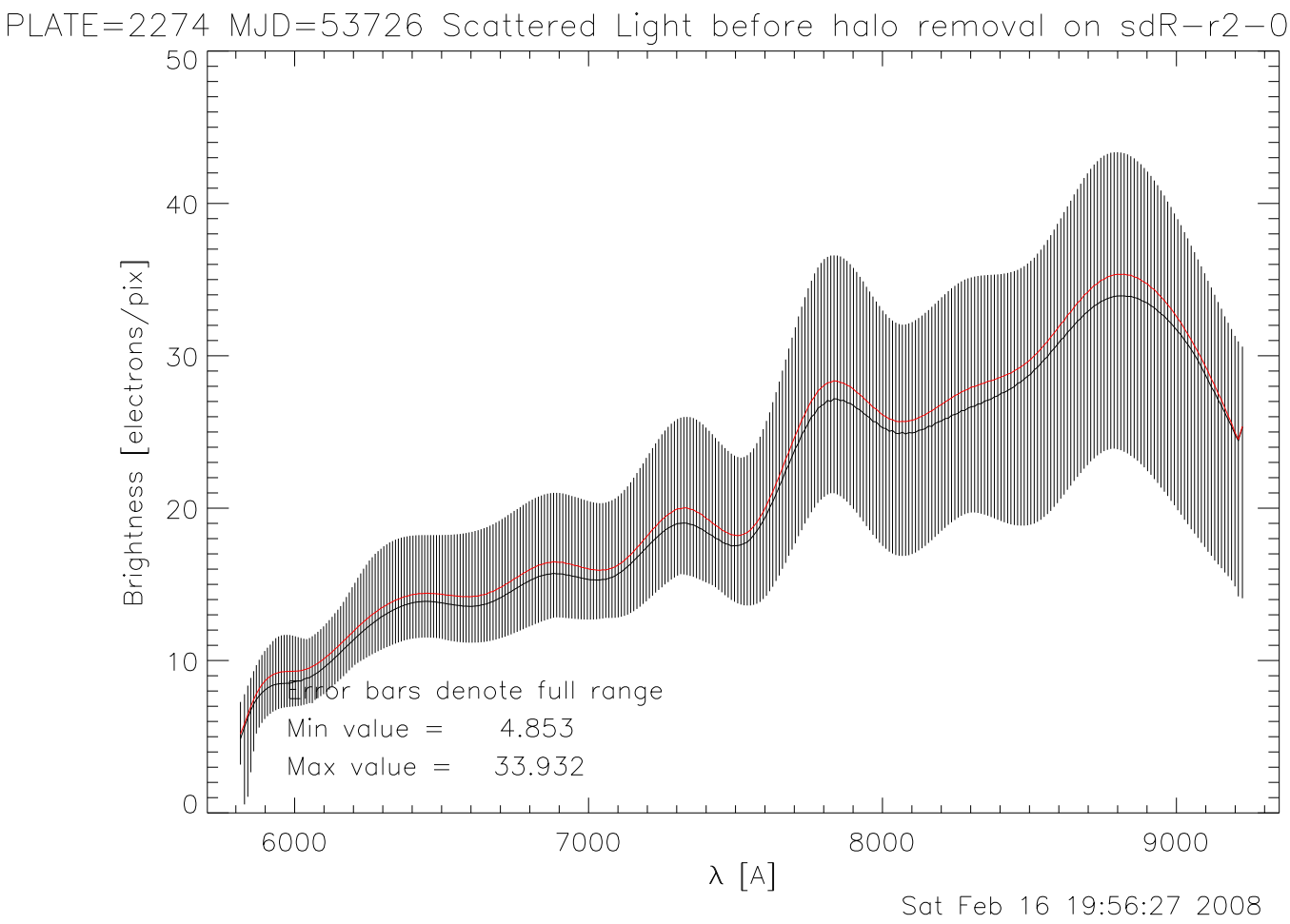

Number of sky fibers = 16
PLATE=2274 MJD=53726 sdR-r2-00035678.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

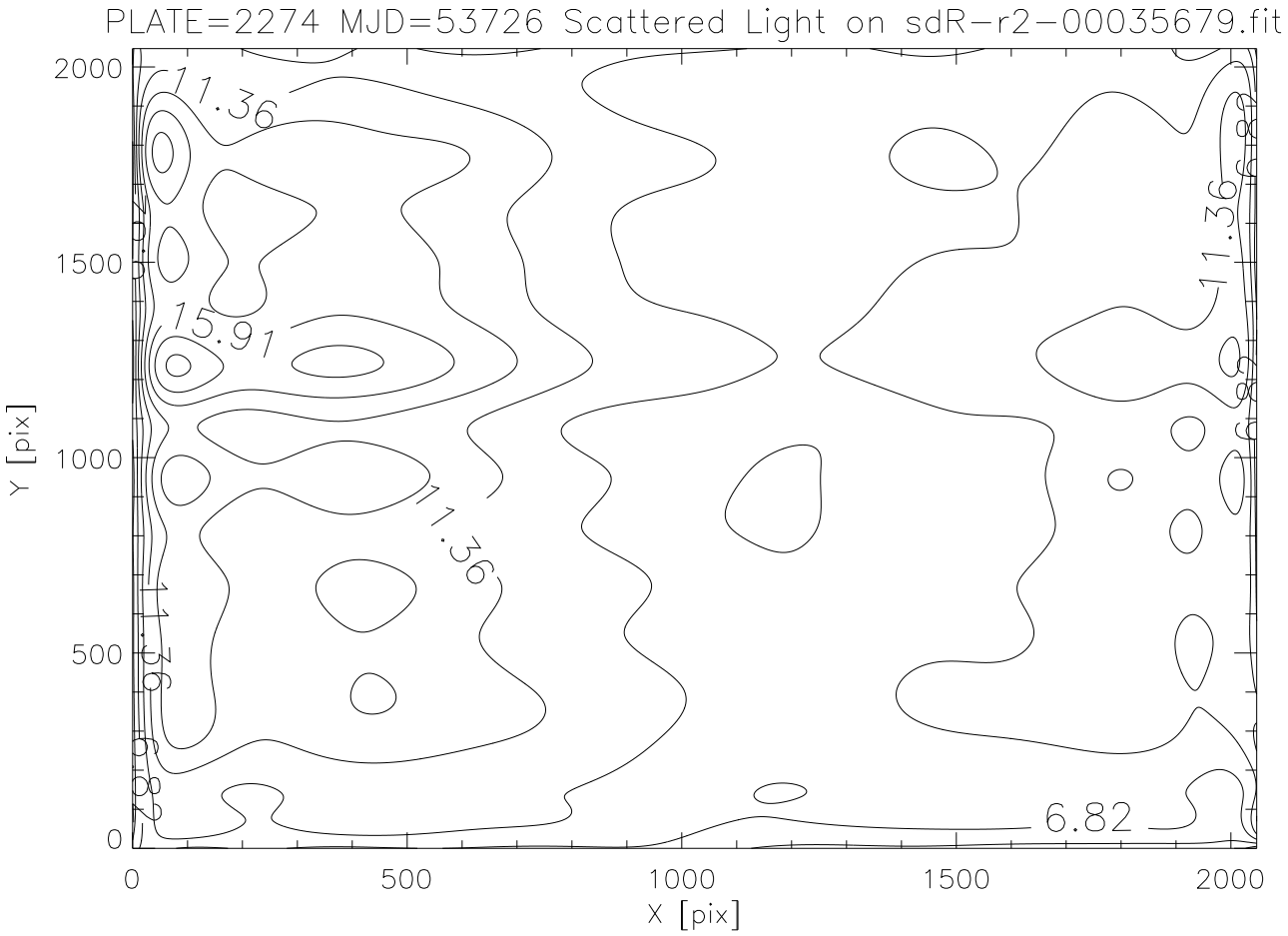

PLATE=2274 MJD=53726 sdR-r2-00035678.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.93 %
Fiber number
Focal Distance [mm]
Airmass

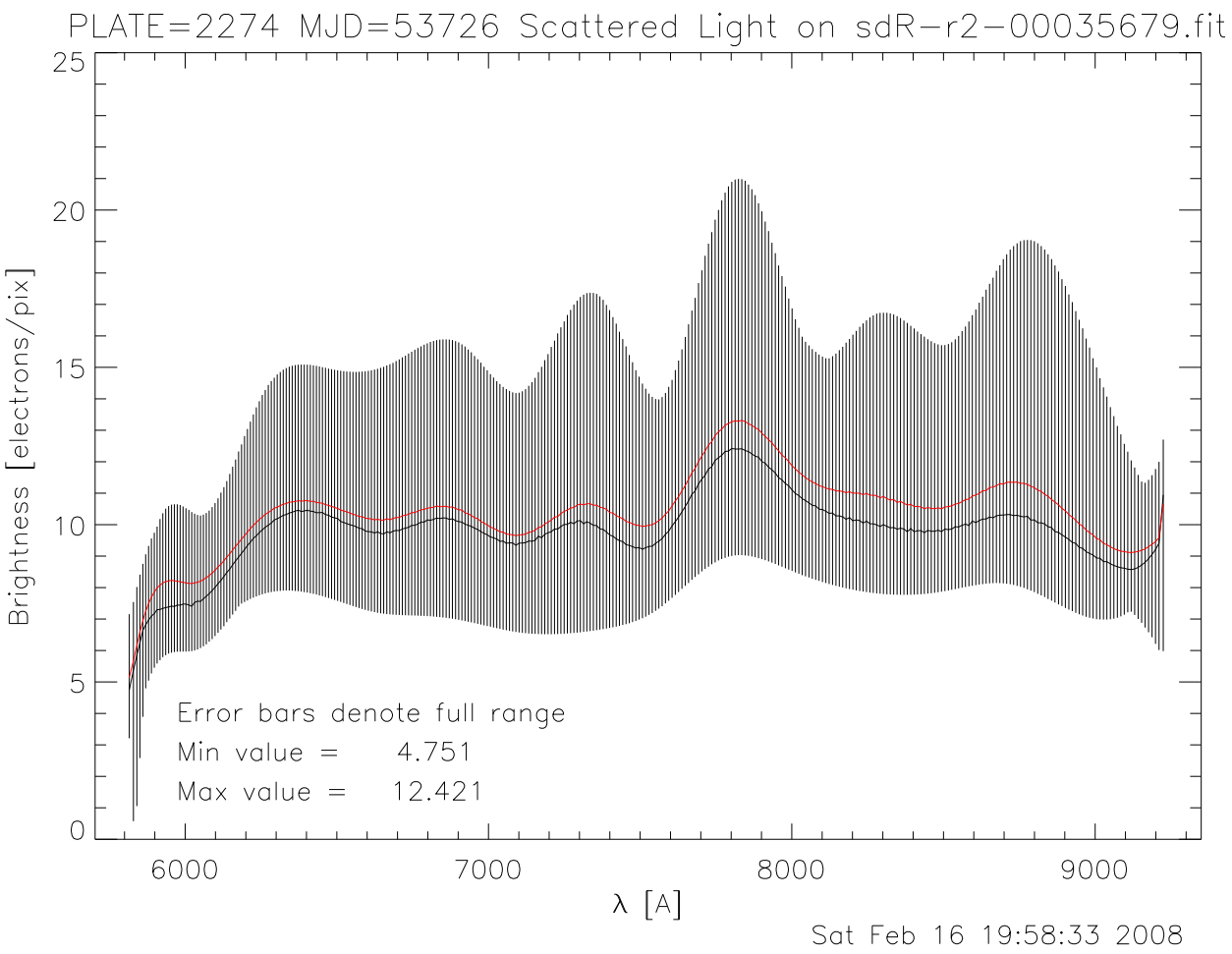

PLATE=2274 MJD=53726 sdR-r2-00035678.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.36 %
Fiber number
Focal Distance [mm]
Airmass

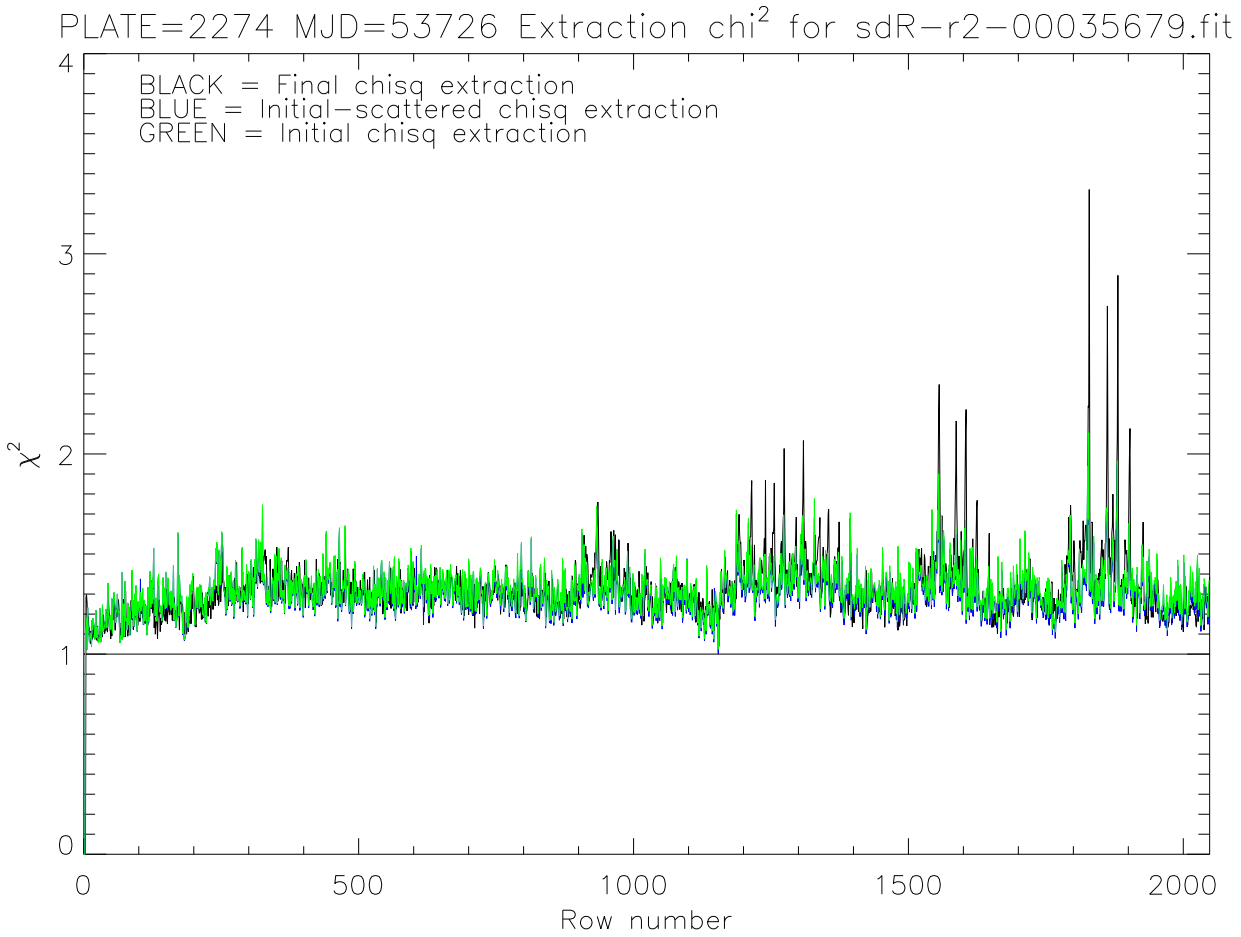

PLATE=2274 MJD=53726 Fiber−Flats for sdR−r2−00035682.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.287
Max value = 1.250
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sat Feb 16 19:55:43 2008

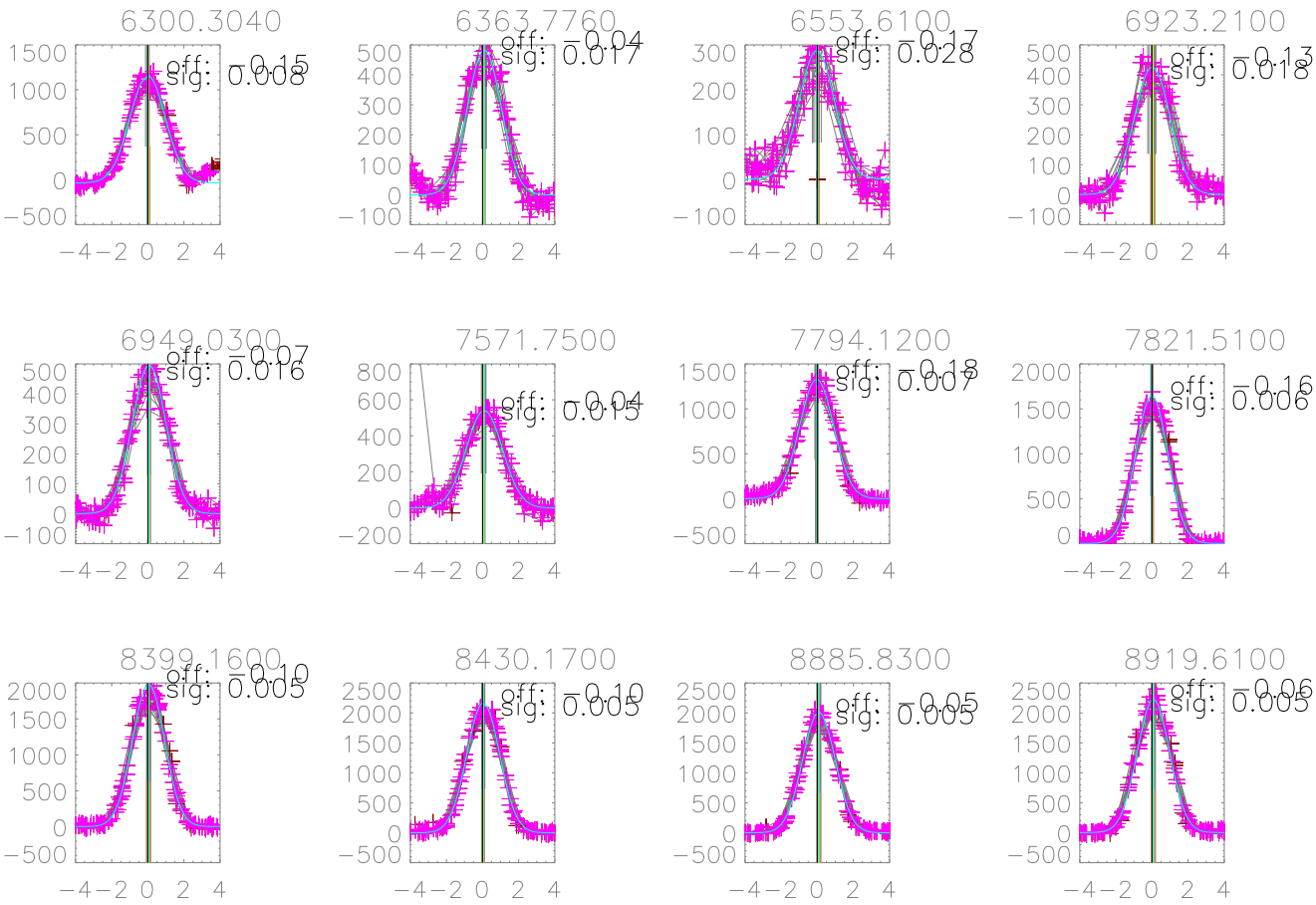

PLATE=2274 MJD=53726 Scattered Light before halo removal on sdR-r2-00035679.fi
31.82
31.82
31.82
22.73
22.73
13.64
13.64
4.55
0
0
0
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

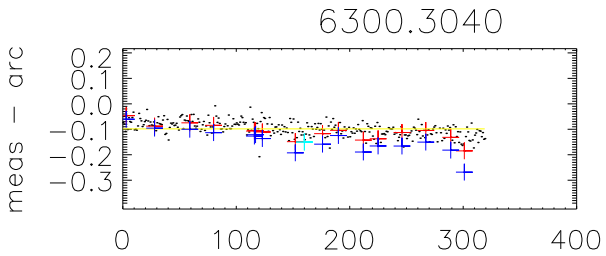

PLATE=2274 MJD=53726 Scattered Light before halo removal on sdR-r2-00035679.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.853
Max value = 33.932
Sat Feb 16 19:56:27 2008

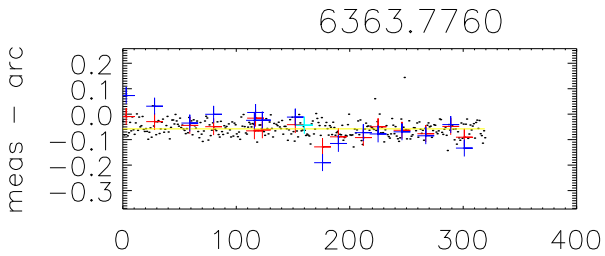

PLATE=2274 MJD=53726 Scattered Light on sdR-r2-00035679.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
11.36
15.91
6.82

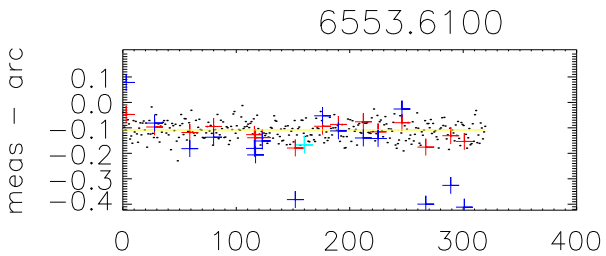

PLATE=2274 MJD=53726 Scattered Light on sdR-r2-00035679.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.751
Max value = 12.421
Sat Feb 16 19:58:33 2008

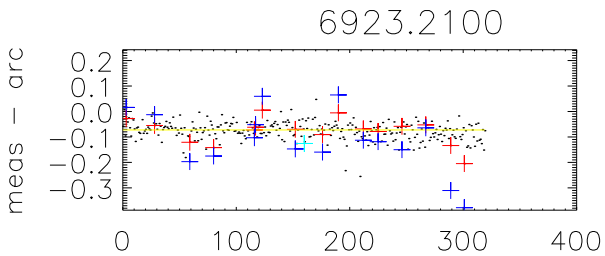

PLATE=2274 MJD=53726 Extraction chi^2 for sdR−r2−00035679.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

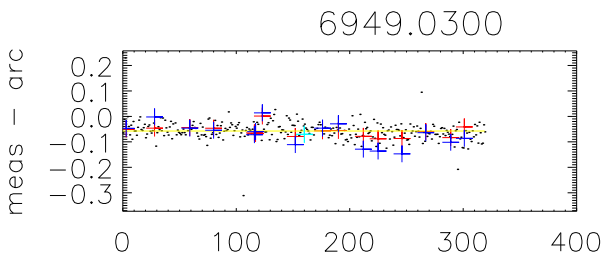

6300.3040
off: −0.15
sig: 0.008
6363.7760
off: −0.04
sig: 0.017
6553.6100
off: −0.17
sig: 0.028
6923.2100
off: −0.13
sig: 0.018
6949.0300
off: −0.07
sig: 0.016
7571.7500
off: −0.04
sig: 0.015
7794.1200
off: −0.18
sig: 0.007
7821.5100
off: −0.16
sig: 0.006
8399.1600
off: −0.10
sig: 0.005
8430.1700
off: −0.10
sig: 0.005
8885.8300
off: −0.05
sig: 0.005
8919.6100
off: −0.06
sig: 0.005

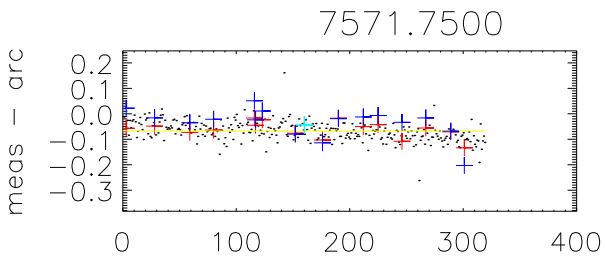

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

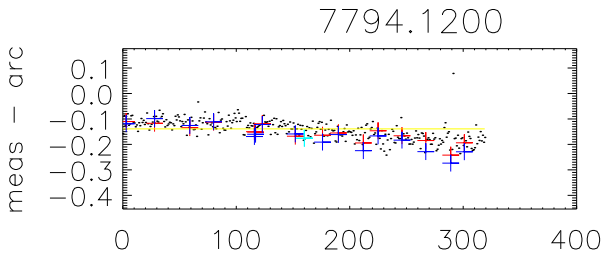

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

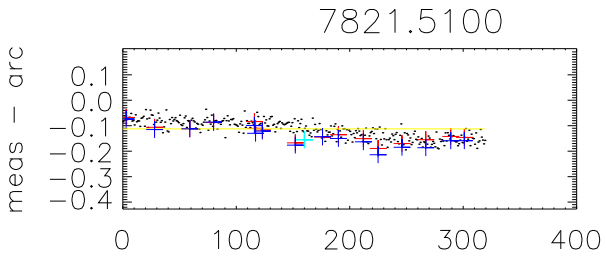

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

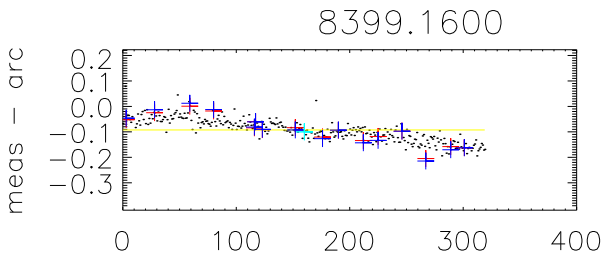

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

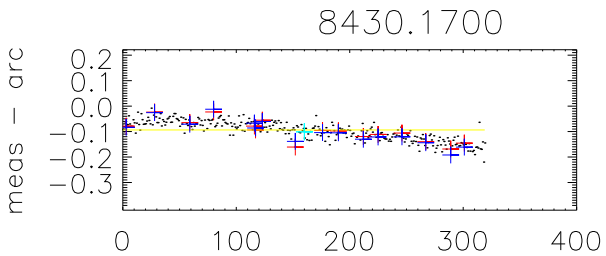

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

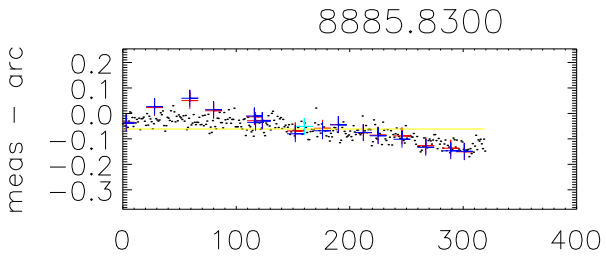

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

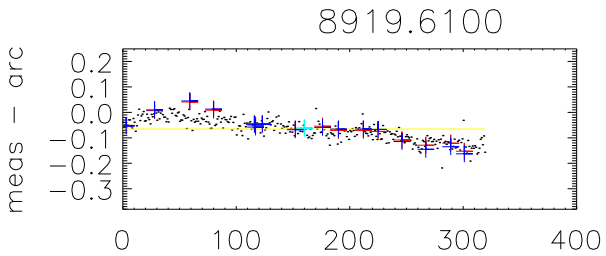

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

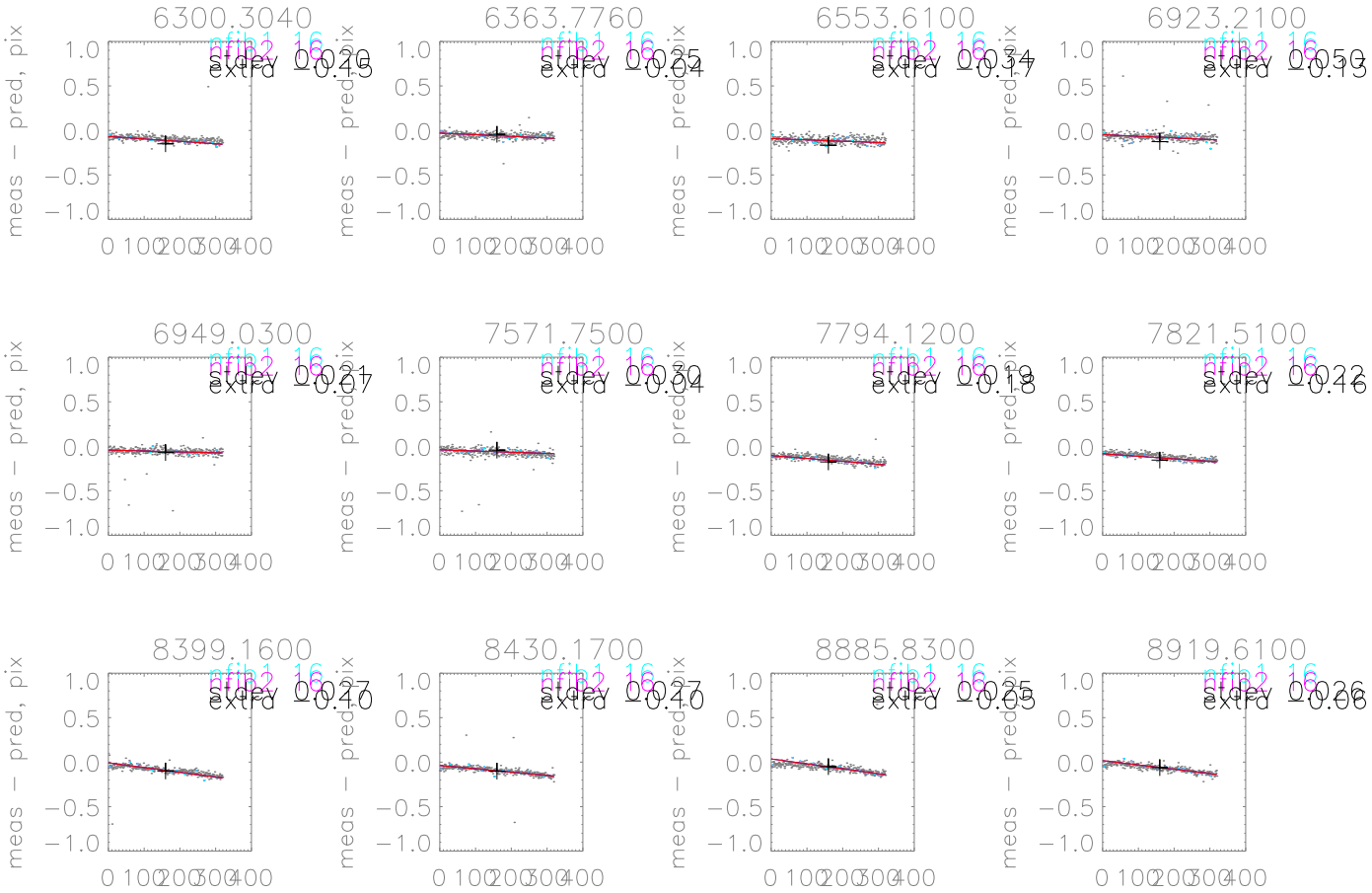

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

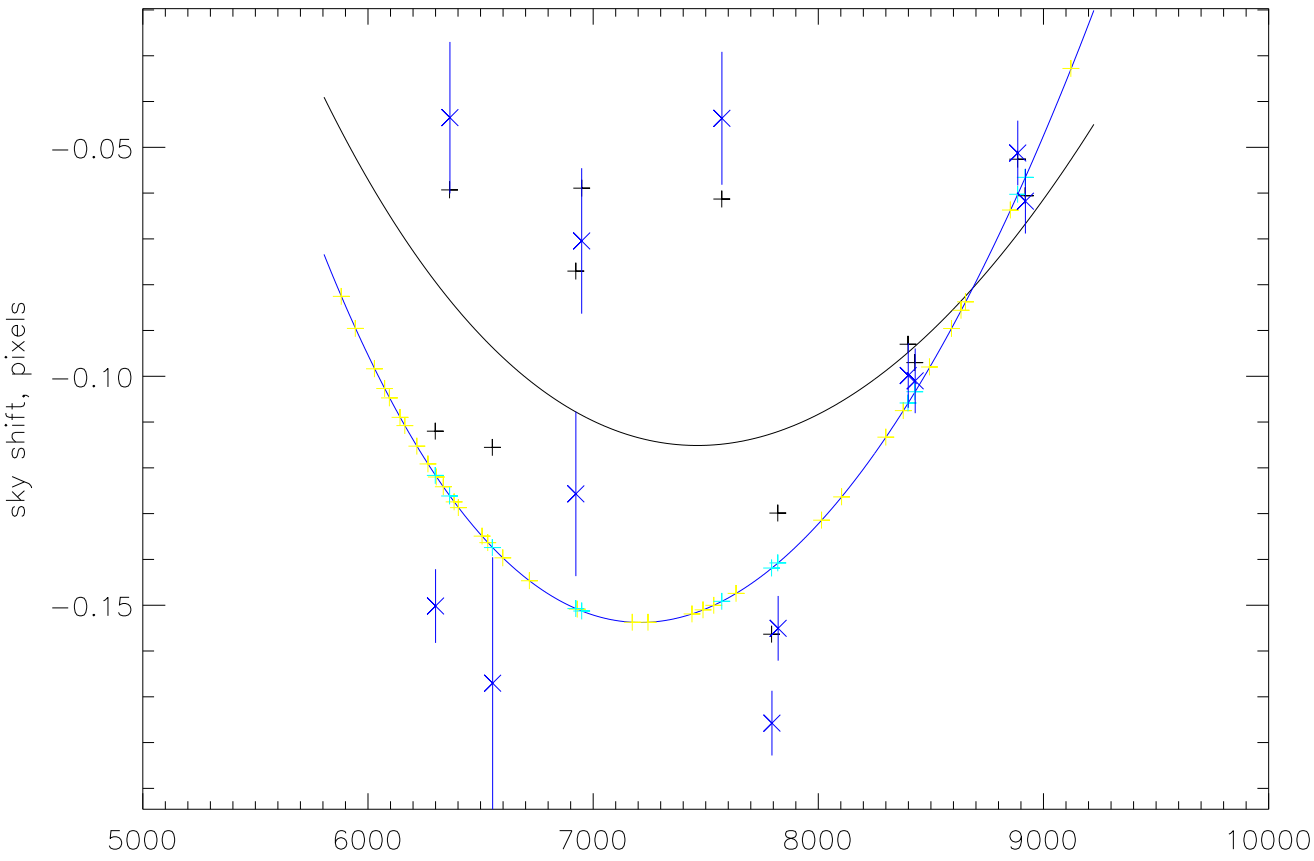

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

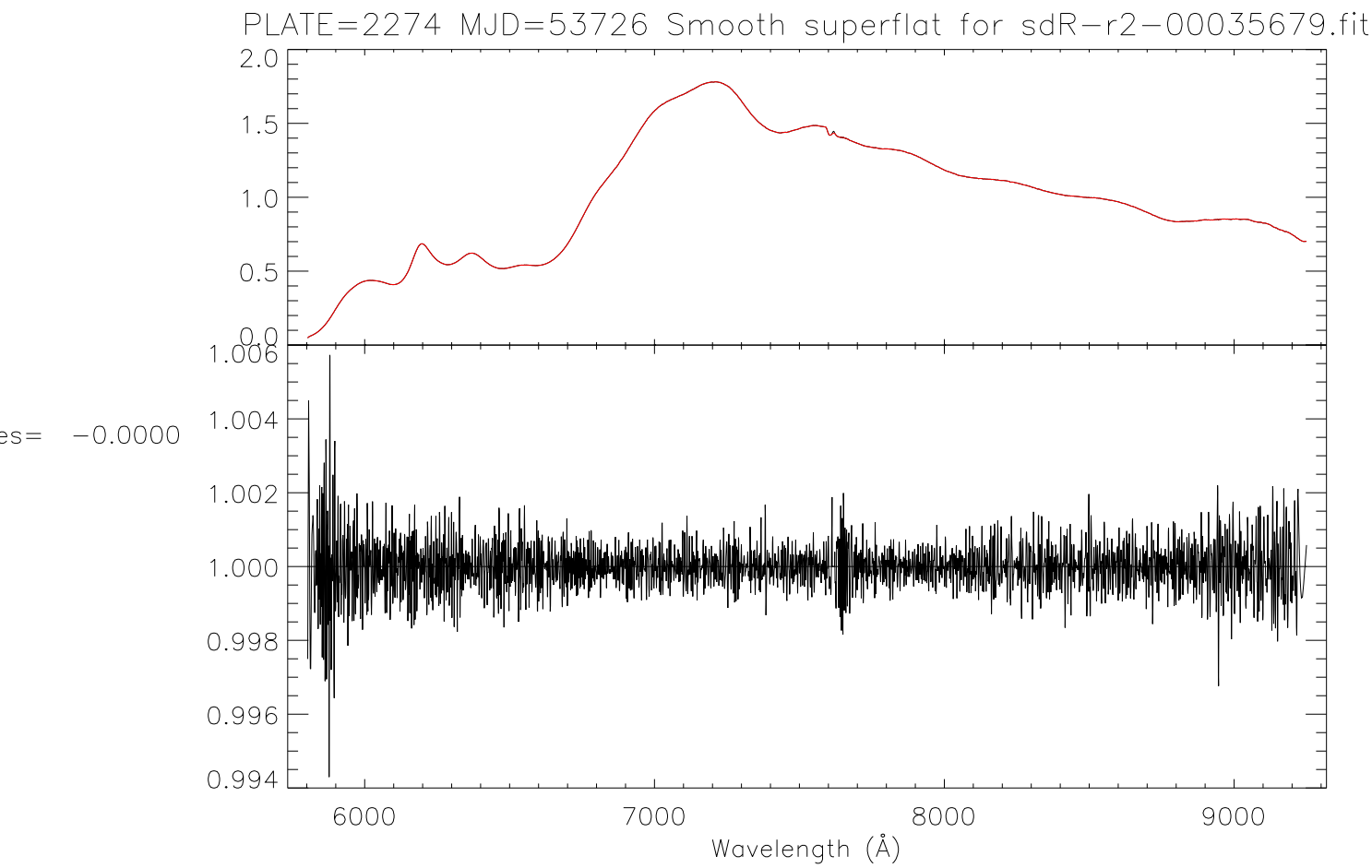

8430.1700
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


8885.8300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

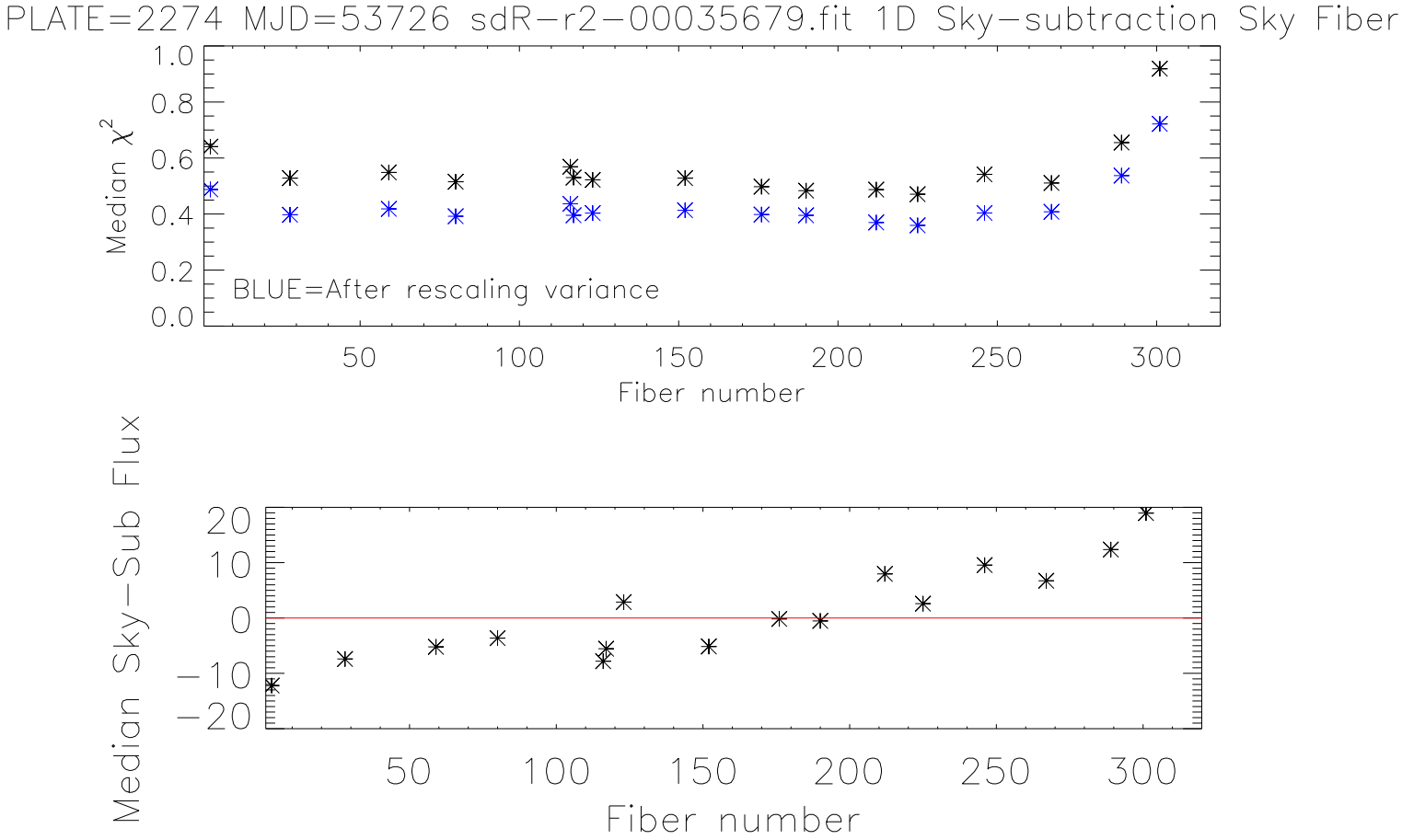

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

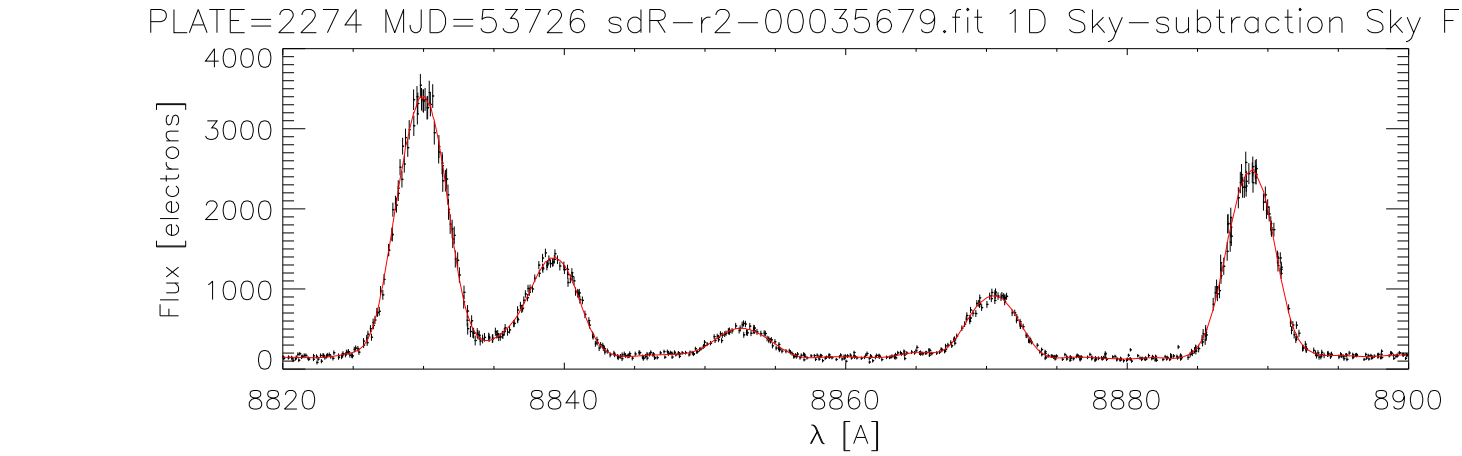

6300.3040
stdev 0.020
extra 0.45
6363.7760
stdev 0.025
extra 0.04
6553.6100
stdev 0.034
extra 0.17
6923.2100
stdev 0.050
extra 0.13
6949.0300
stdev 0.021
extra 0.07
7571.7500
stdev 0.030
extra 0.04
7794.1200
stdev 0.019
extra 0.18
7821.5100
stdev 0.022
extra 0.46
8399.1600
stdev 0.027
extra 0.40
8430.1700
stdev 0.027
extra 0.40
8885.8300
stdev 0.025
extra 0.05
8919.6100
stdev 0.026
extra 0.06
meas − pred, pix
mfhd2 16

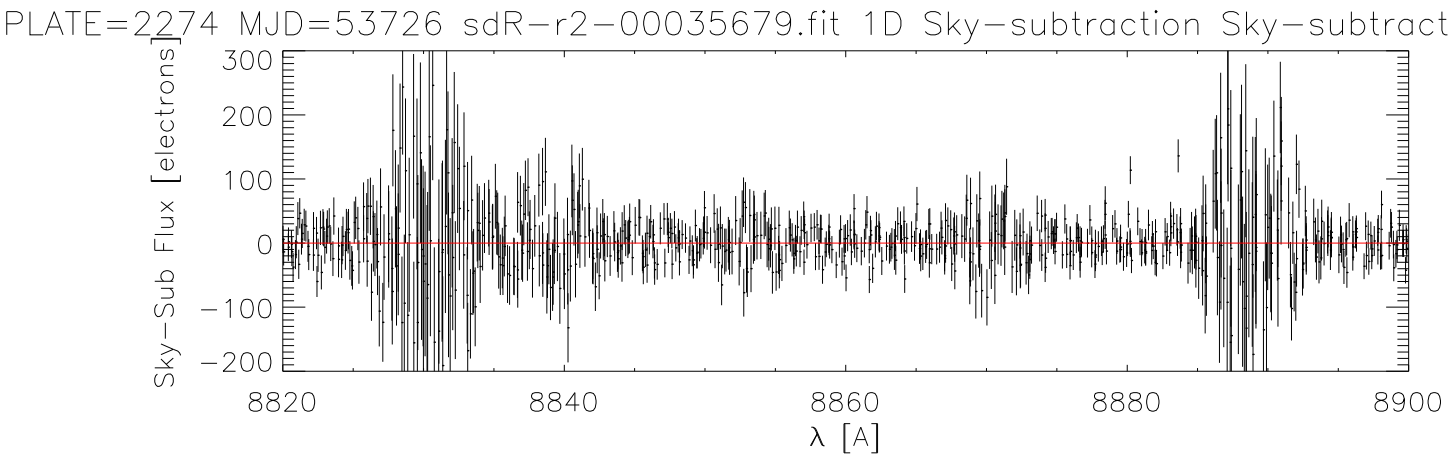

sky shift, pixels
−0.05
−0.10
−0.15
5000
6000
7000
8000
9000
10000

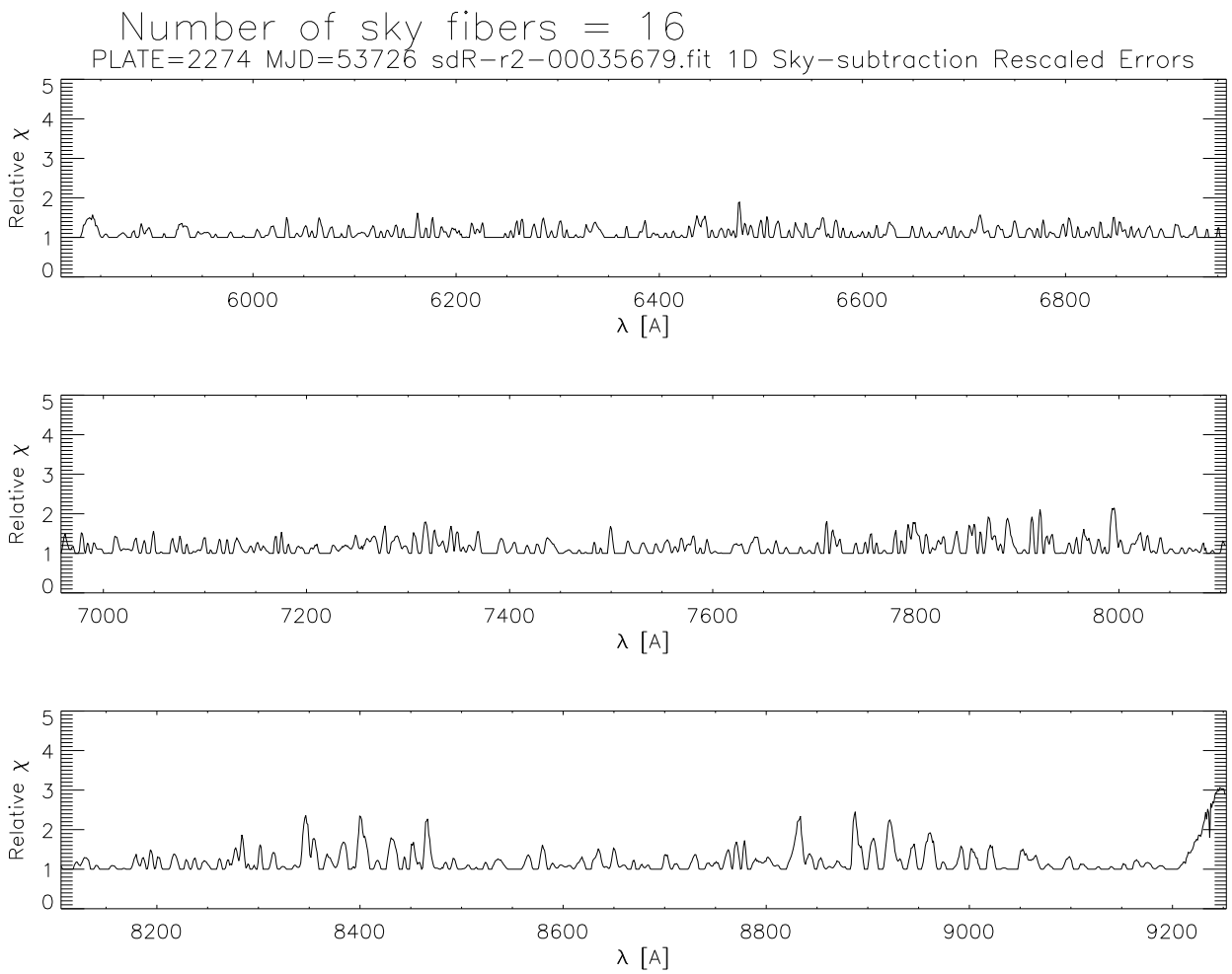

PLATE=2274 MJD=53726 Smooth superflat for sdR-r2-00035679.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
6000
7000
8000
9000
Wavelength (Å)

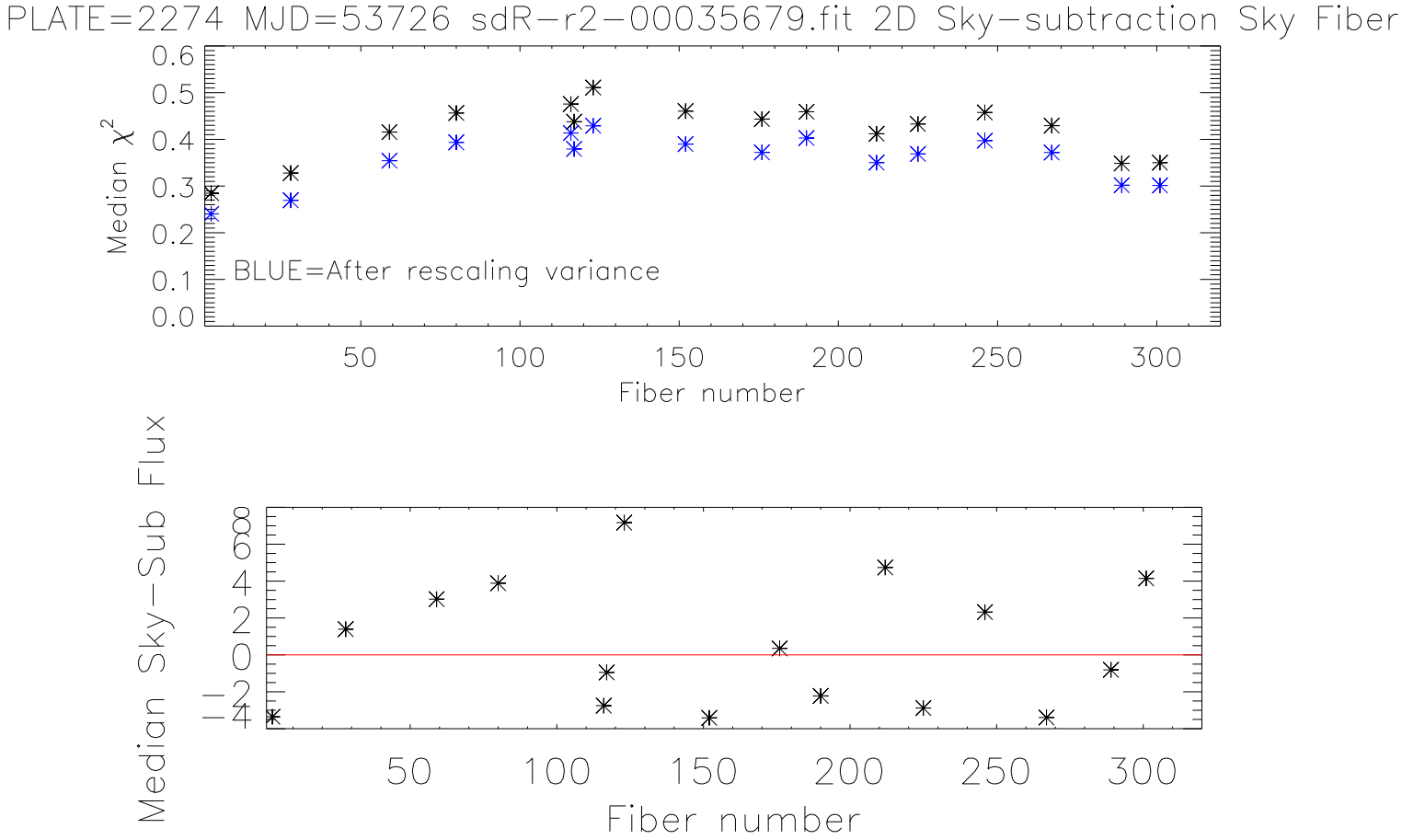
es= −0.0000

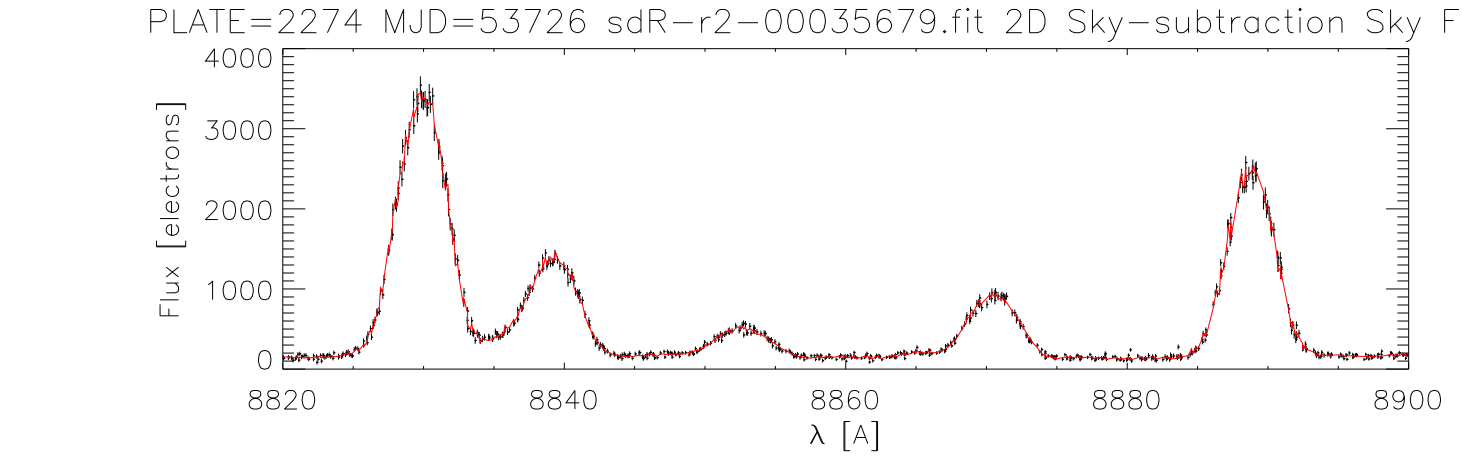

PLATE=2274 MJD=53726 sdR-r2-00035679.fit 1D Sky-subtraction Sky Fibers
Median χ^2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
10
0
-10
-20
50
100
150
200
250
300
Fiber number

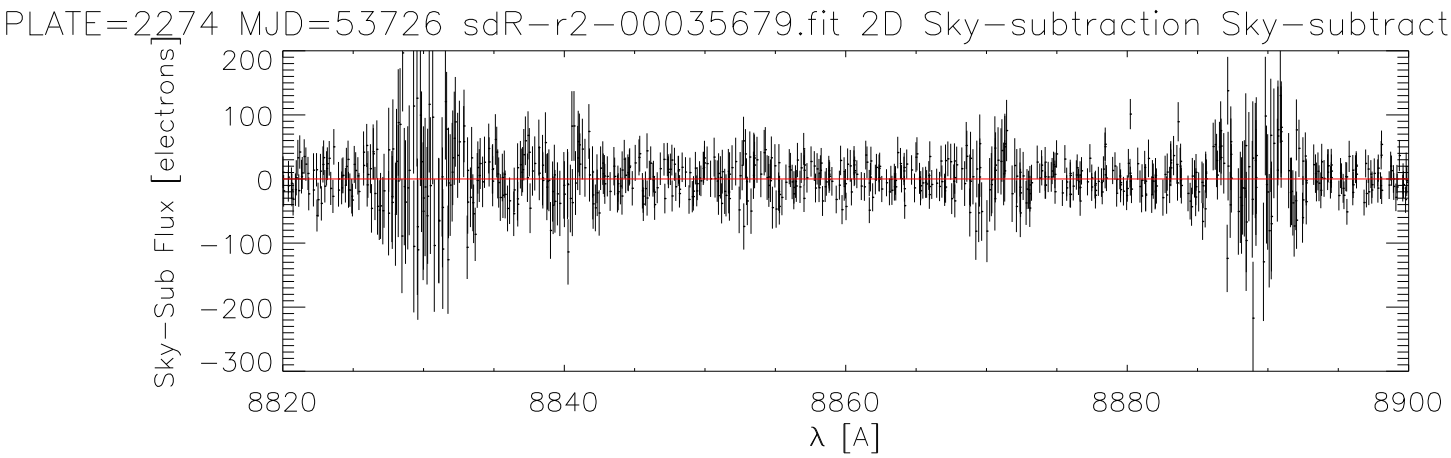

PLATE=2274 MJD=53726 sdR-r2-00035679.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

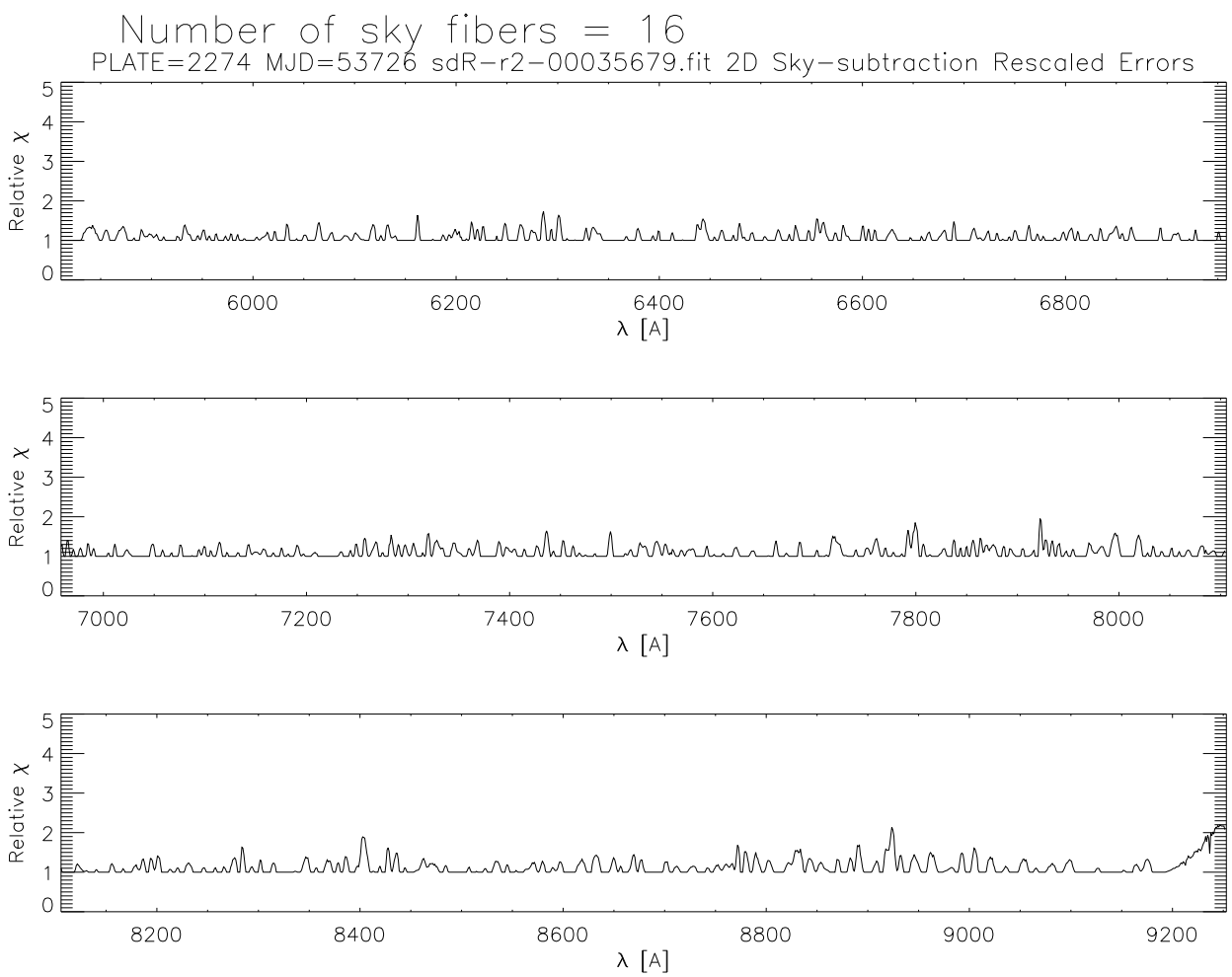

PLATE=2274 MJD=53726 sdR-r2-00035679.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

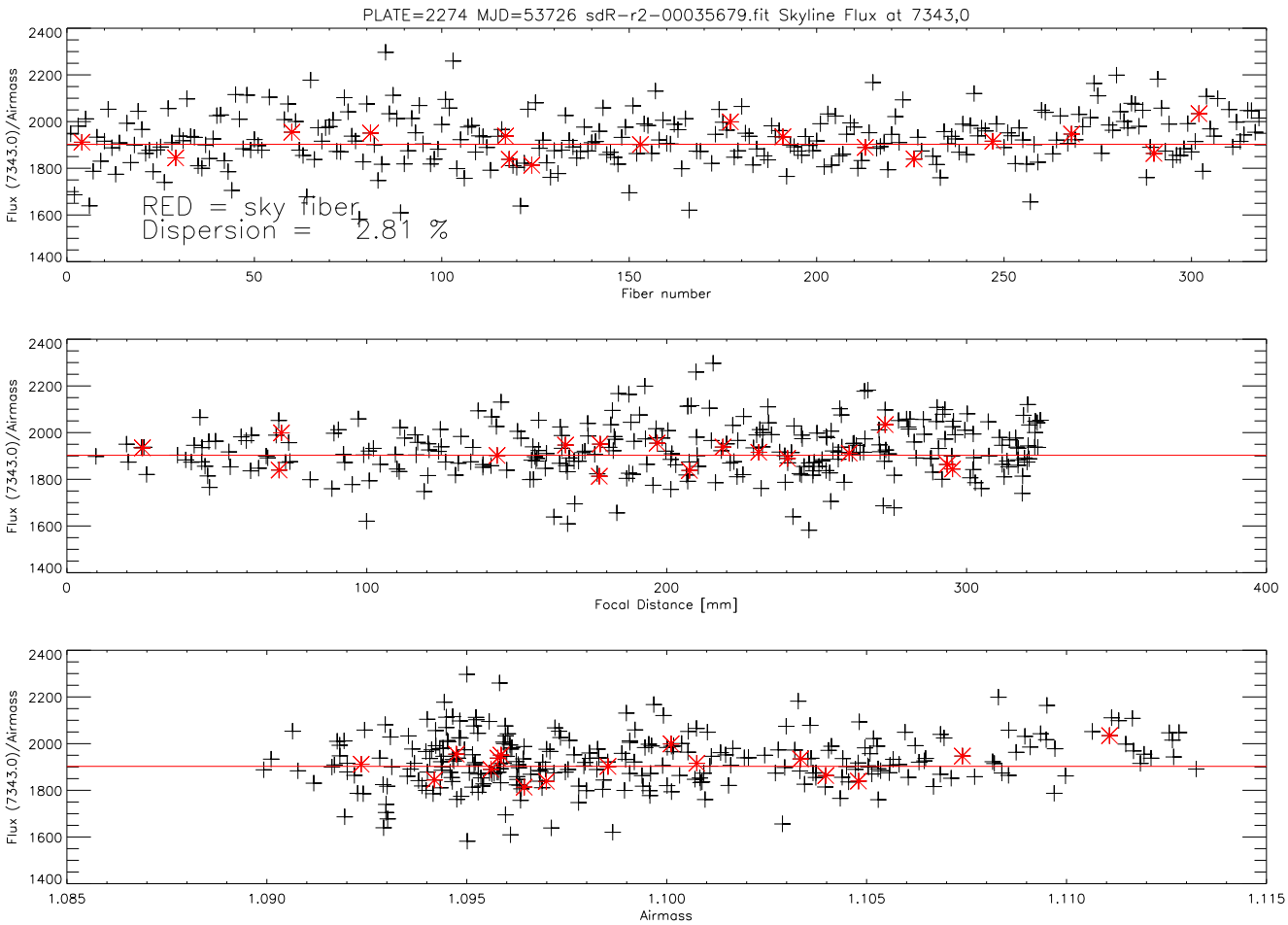

Number of sky fibers = 16
PLATE=2274 MJD=53726 sdR-r2-00035679.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

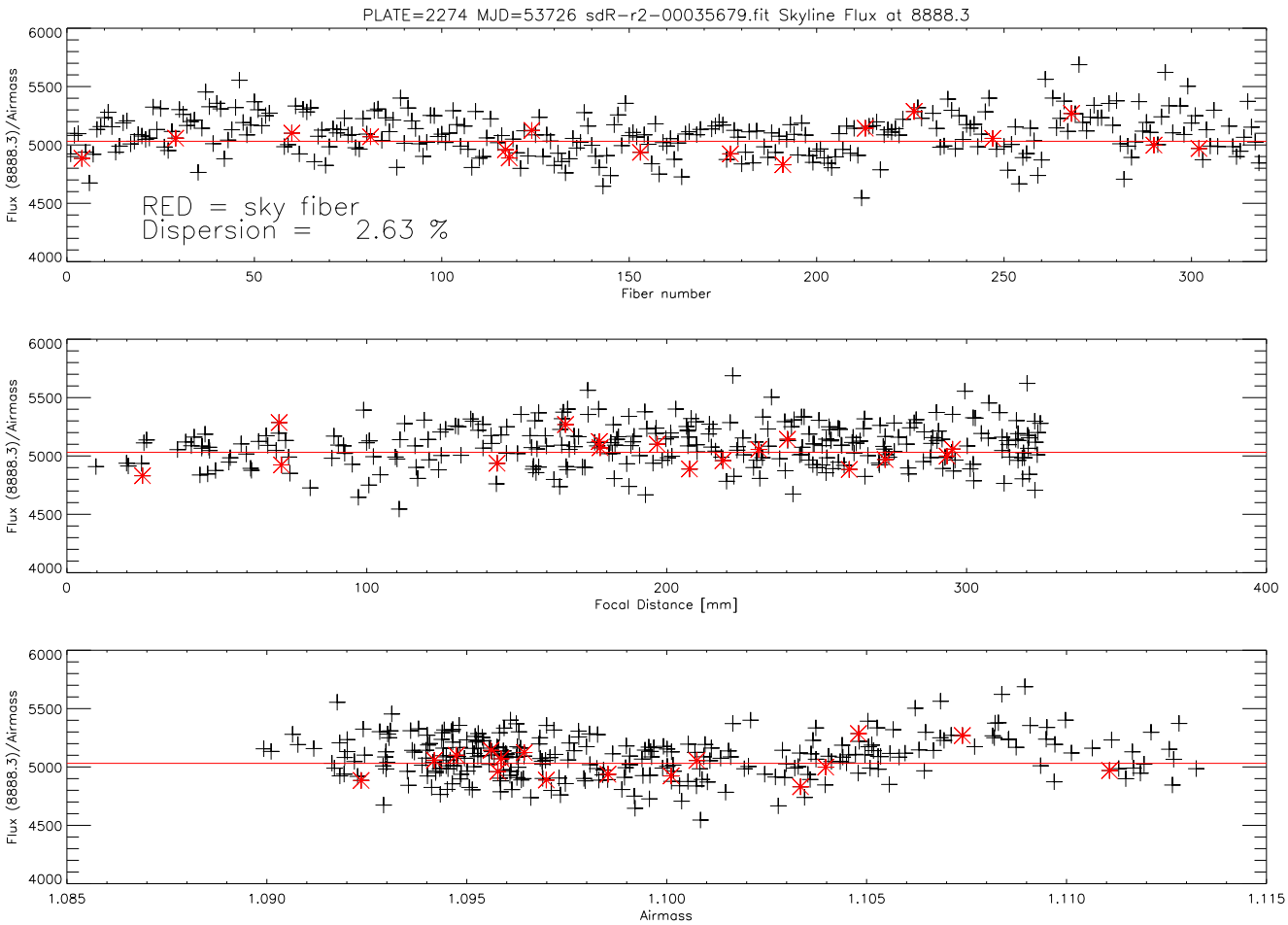

PLATE=2274 MJD=53726 sdR-r2-00035679.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

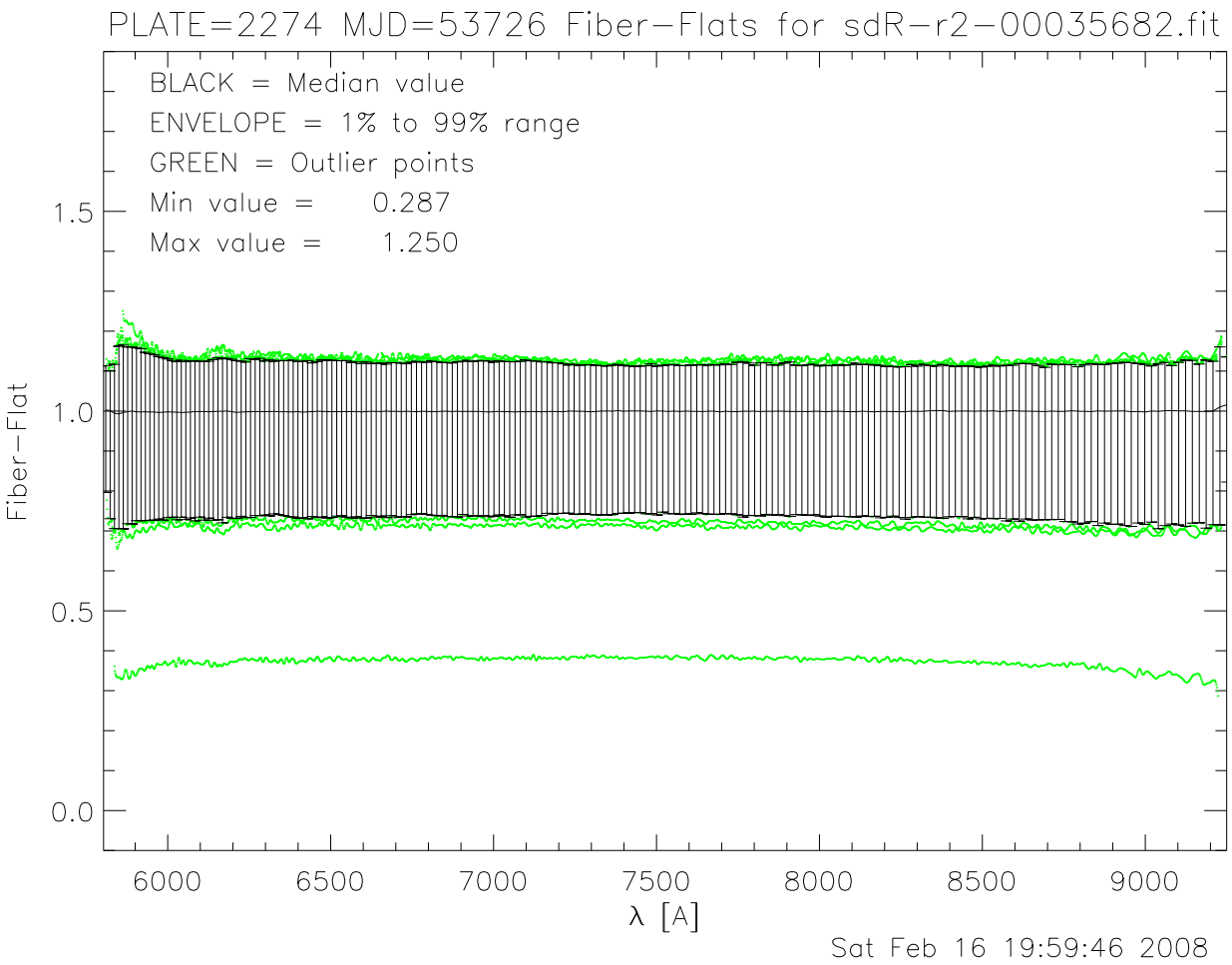

PLATE=2274 MJD=53726 sdR-r2-00035679.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

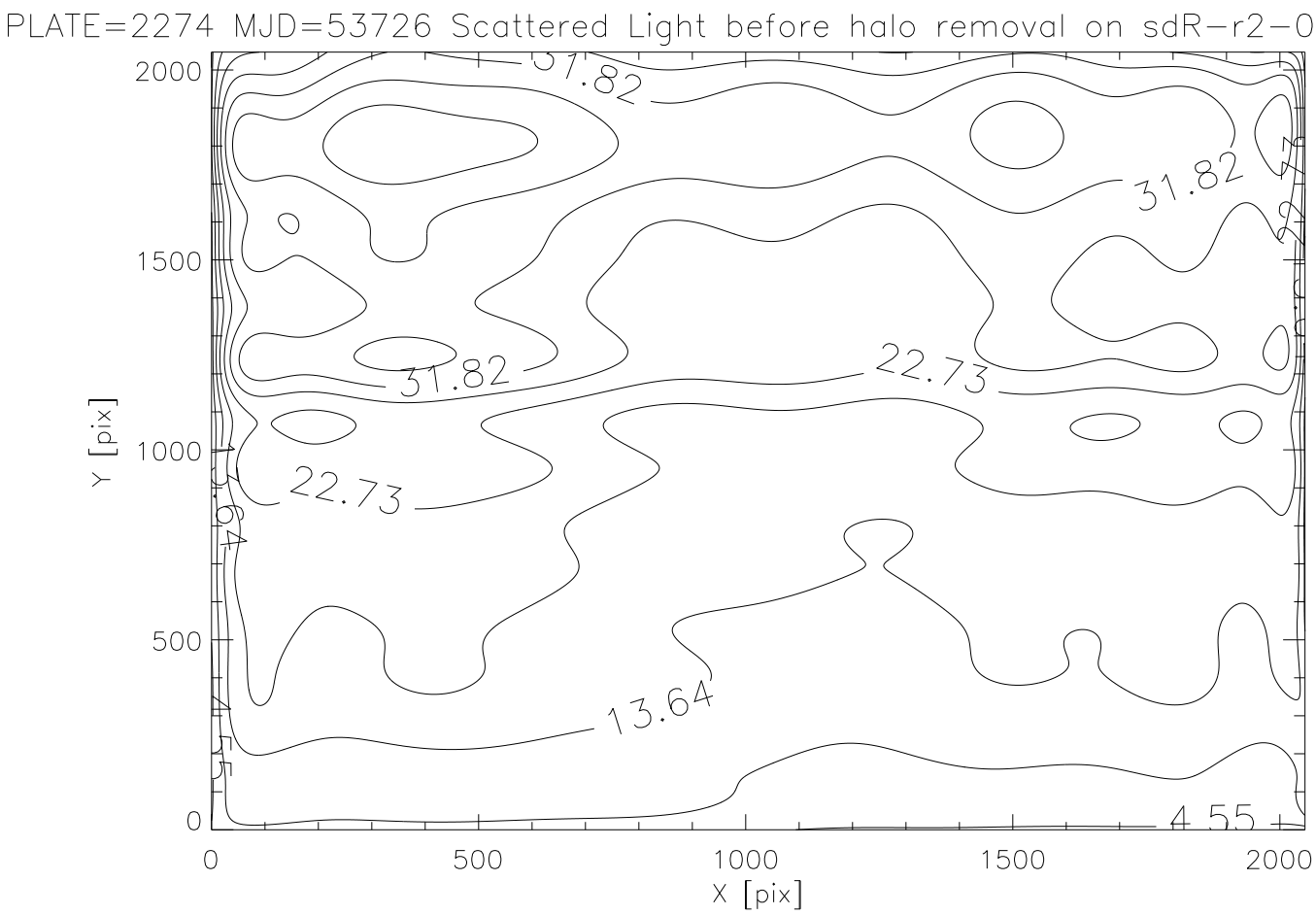

PLATE=2274 MJD=53726 sdR-r2-00035679.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

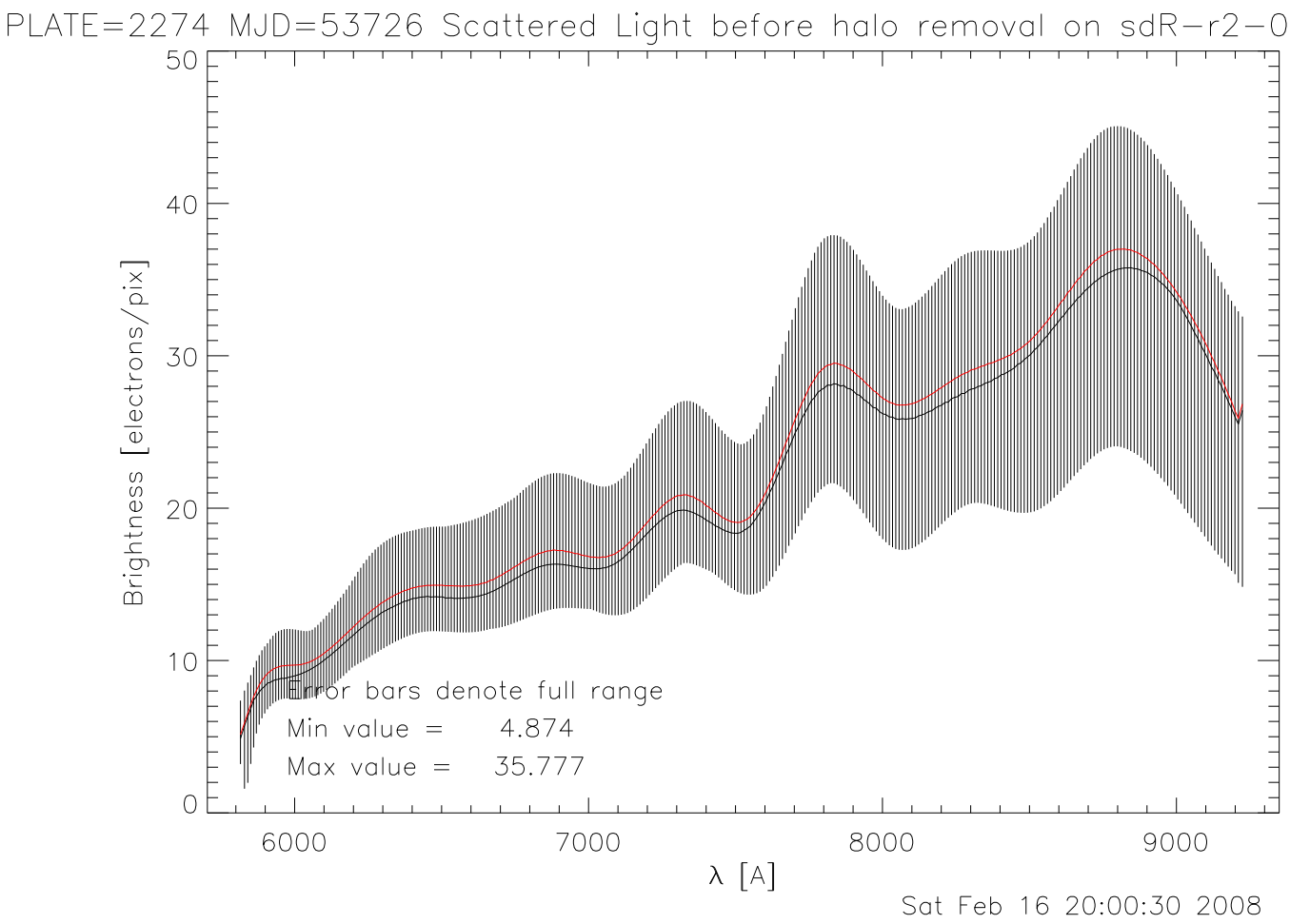

Number of sky fibers = 16
PLATE=2274 MJD=53726 sdR-r2-00035679.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

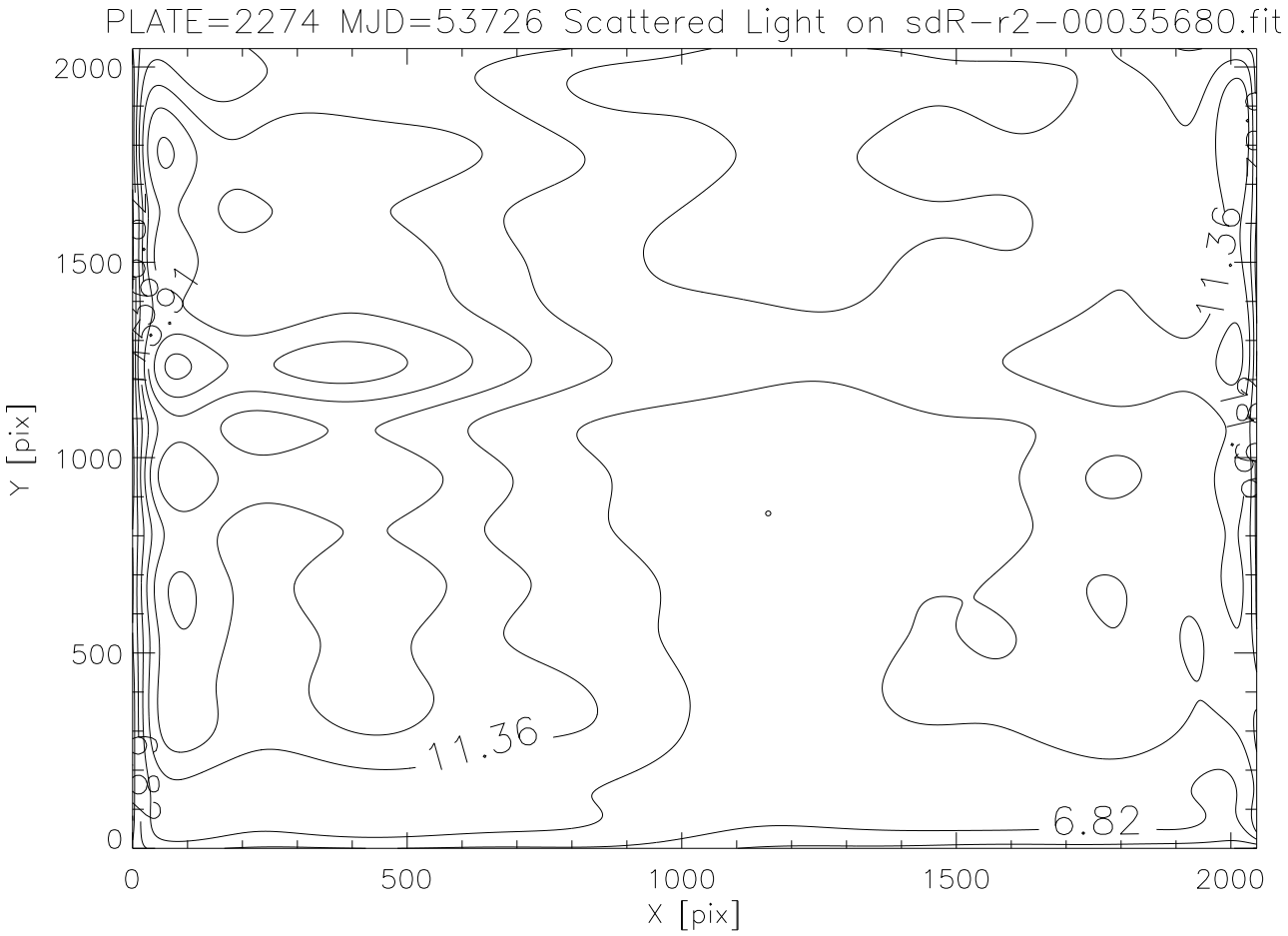

PLATE=2274 MJD=53726 sdR-r2-00035679.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.81 %
Fiber number
Focal Distance [mm]
Airmass

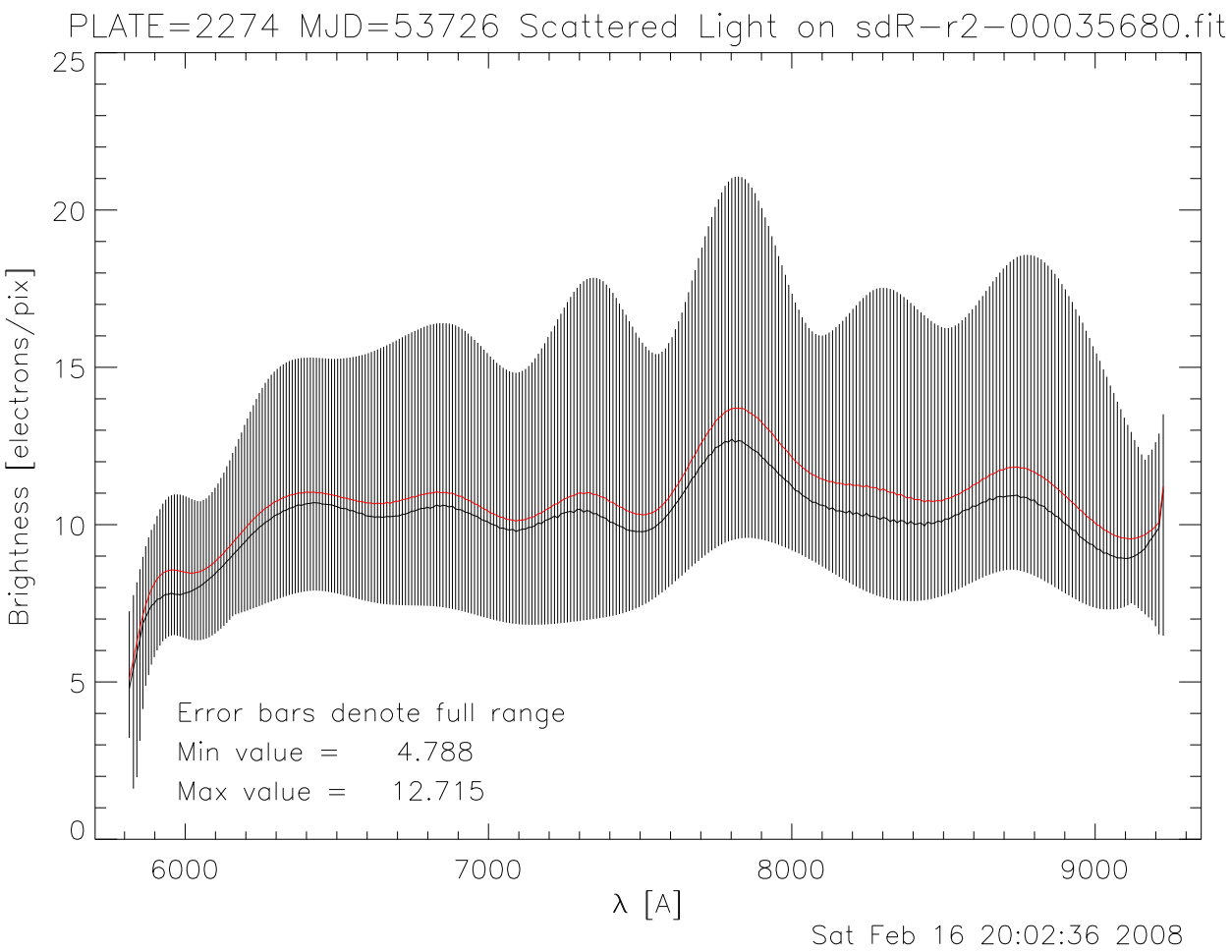

PLATE=2274 MJD=53726 sdR-r2-00035679.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.63 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

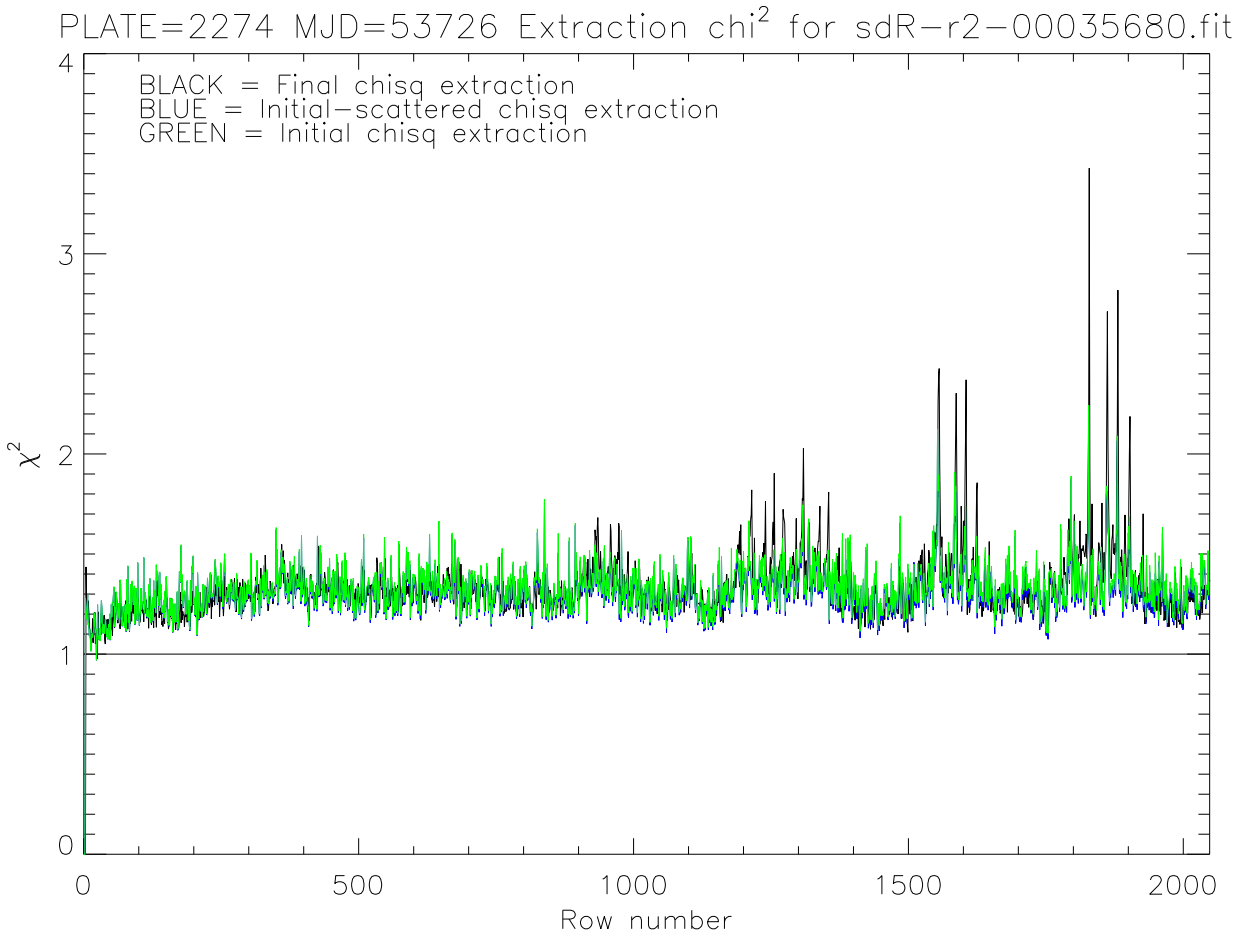

PLATE=2274 MJD=53726 Fiber-Flats for sdR-r2-00035682.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.287
Max value = 1.250
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sat Feb 16 19:59:46 2008

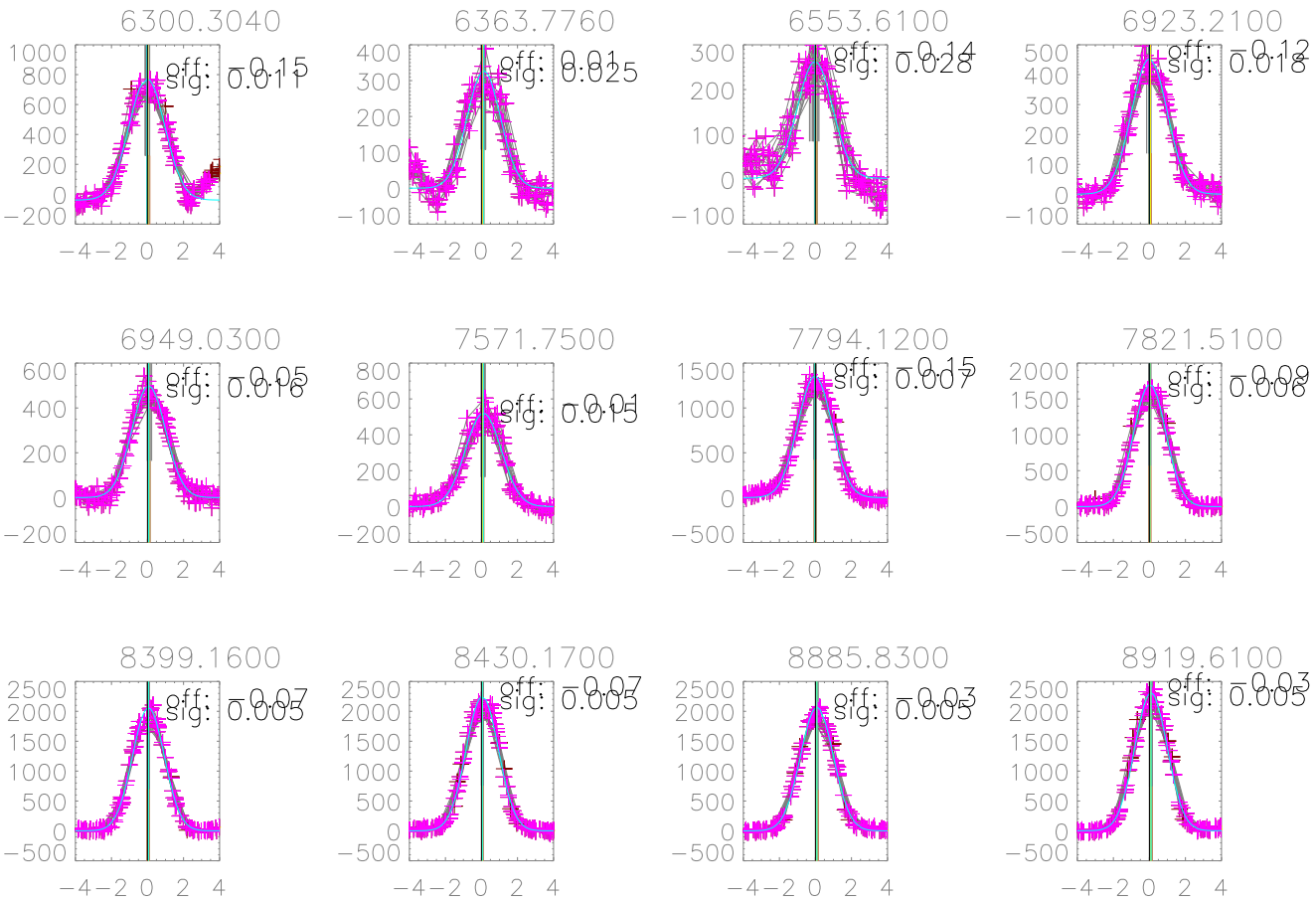

PLATE=2274 MJD=53726 Scattered Light before halo removal on sdR-r2-00035680.fi
31.82
31.82
31.82
22.73
22.73
13.64
13.64
4.55
4.55
Y [pix]
X [pix]
0
500
1000
1500
2000

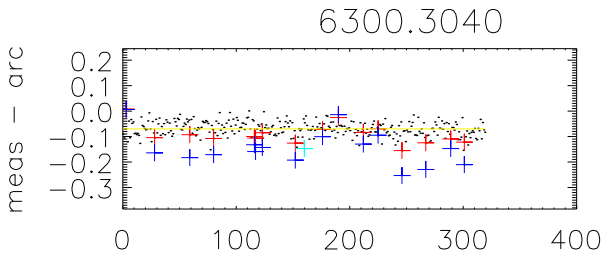

PLATE=2274 MJD=53726 Scattered Light before halo removal on sdR-r2-00035680.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.874
Max value = 35.777
Sat Feb 16 20:00:30 2008

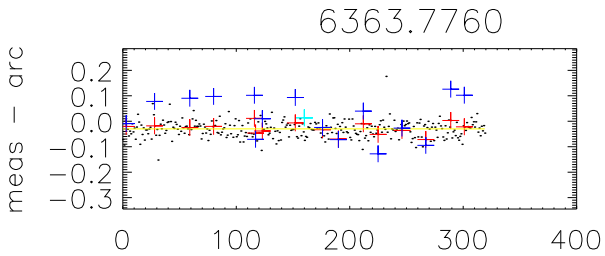

PLATE=2274 MJD=53726 Scattered Light on sdR-r2-00035680.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
11.36
11.36
6.82

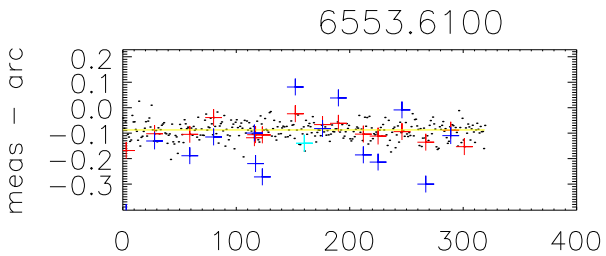

PLATE=2274 MJD=53726 Scattered Light on sdR-r2-00035680.fit
Brightness [electrons/pix]
25
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 4.788
Max value = 12.715
Sat Feb 16 20:02:36 2008

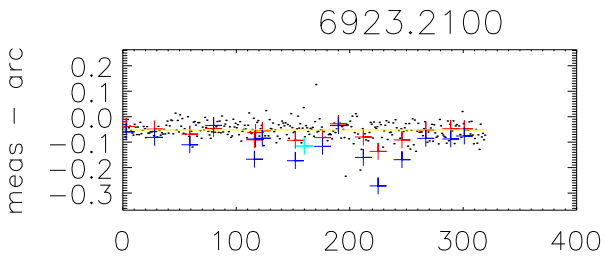

PLATE=2274 MJD=53726 Extraction chi^2 for sdR−r2−00035680.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

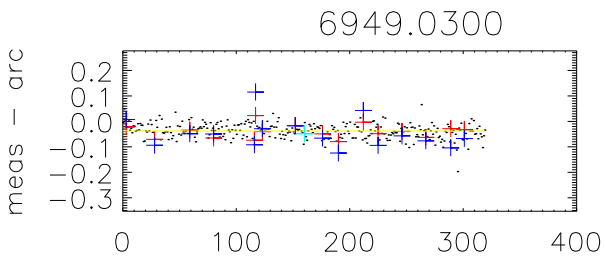

6300.3040
off: −0.15
sig: 0.011
6363.7760
off: 0.01
sig: 0.025
6553.6100
off: −0.14
sig: 0.028
6923.2100
off: −0.12
sig: 0.018
6949.0300
off: −0.05
sig: 0.016
7571.7500
off: −0.01
sig: 0.015
7794.1200
off: −0.15
sig: 0.007
7821.5100
off: −0.09
sig: 0.006
8399.1600
off: −0.07
sig: 0.005
8430.1700
off: −0.07
sig: 0.005
8885.8300
off: −0.03
sig: 0.005
8919.6100
off: −0.03
sig: 0.005

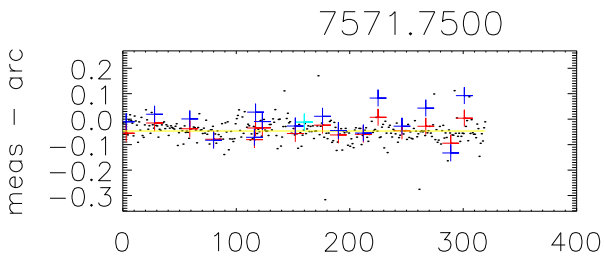

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

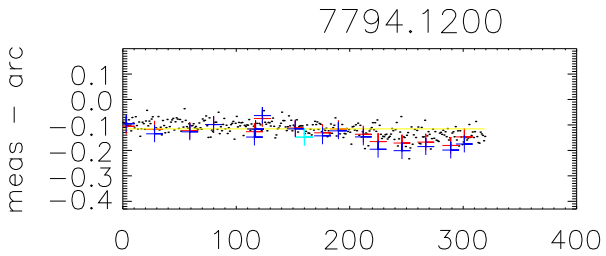

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

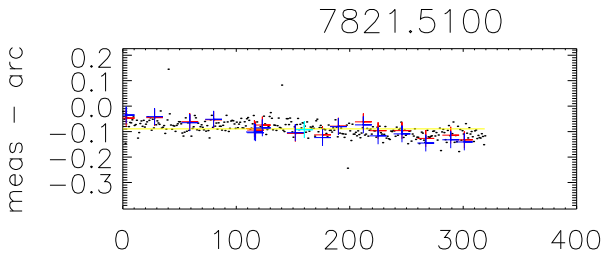

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

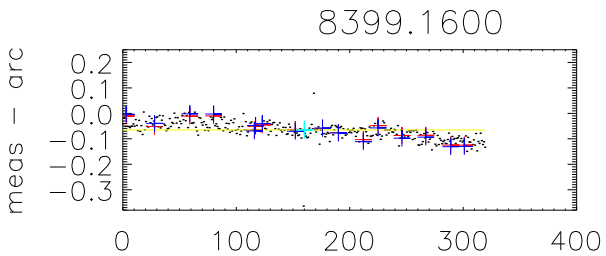

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

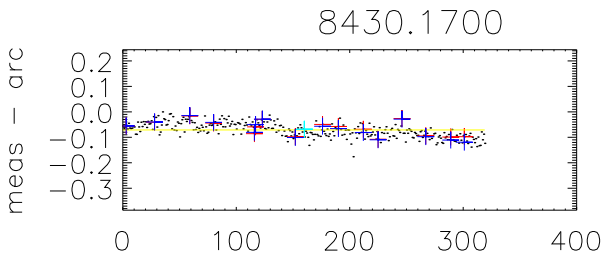

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

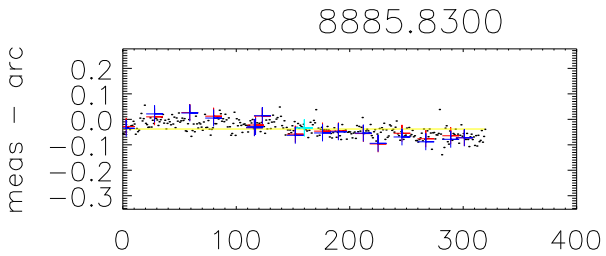

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

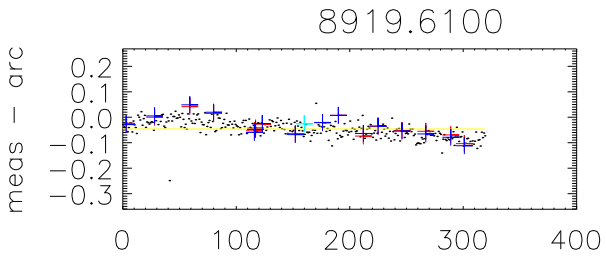

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

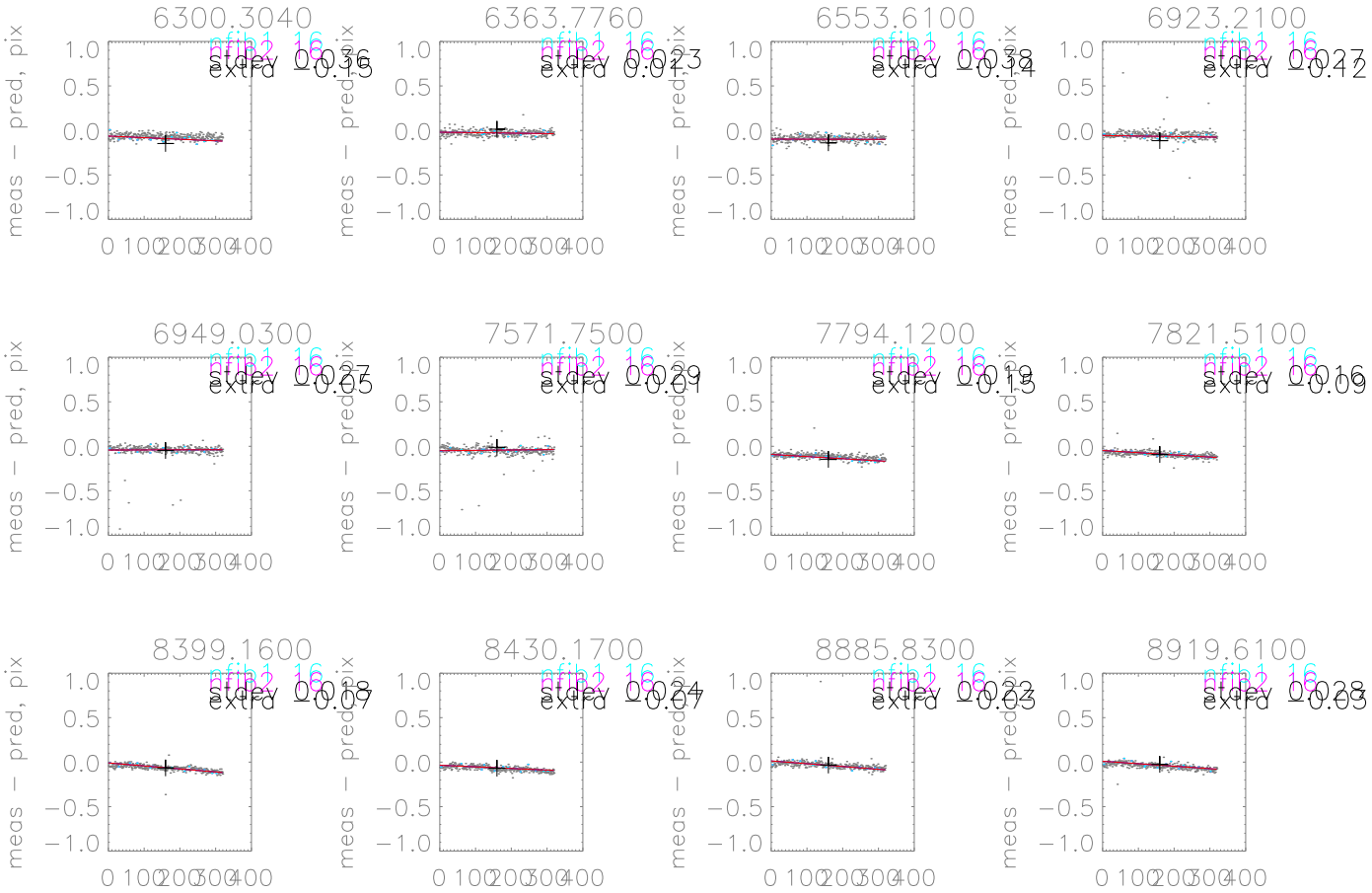

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

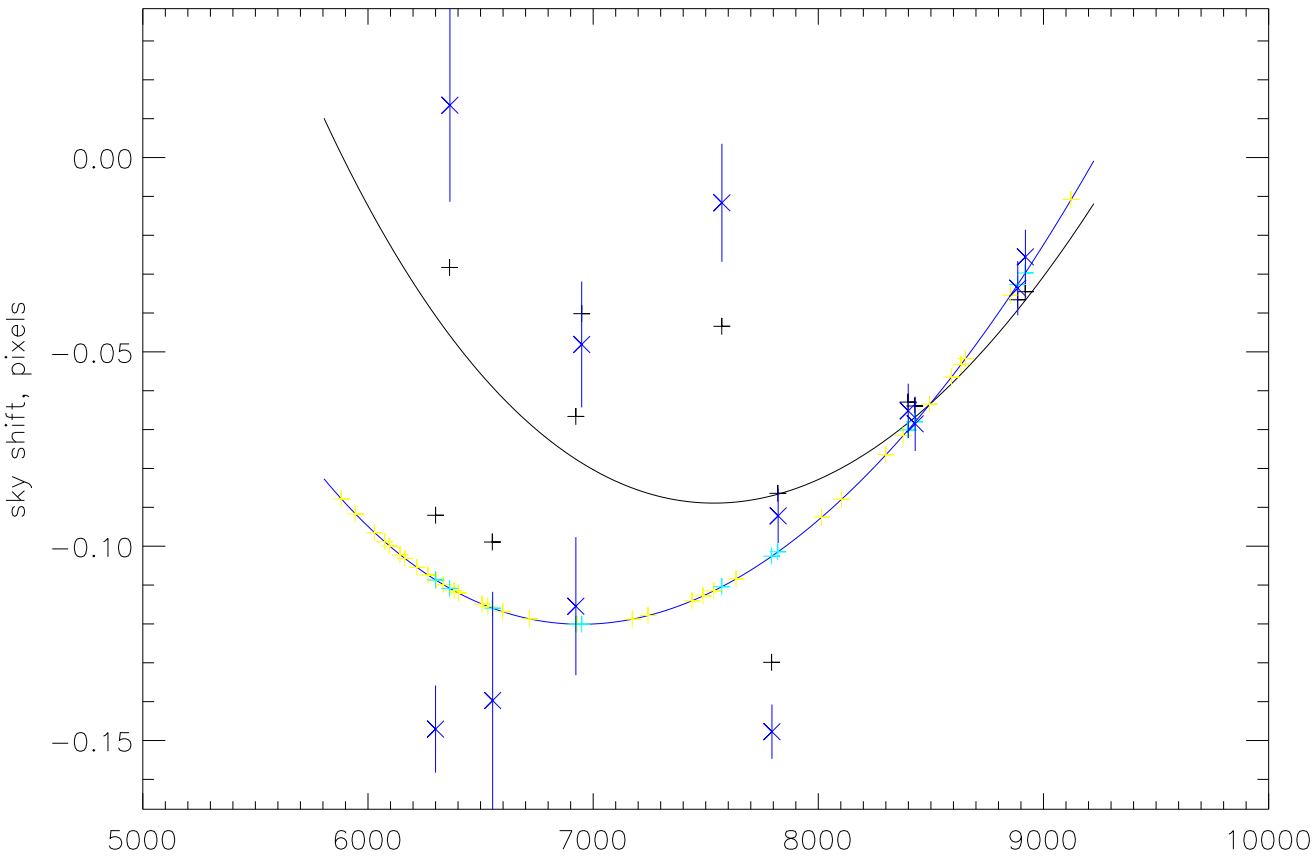

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

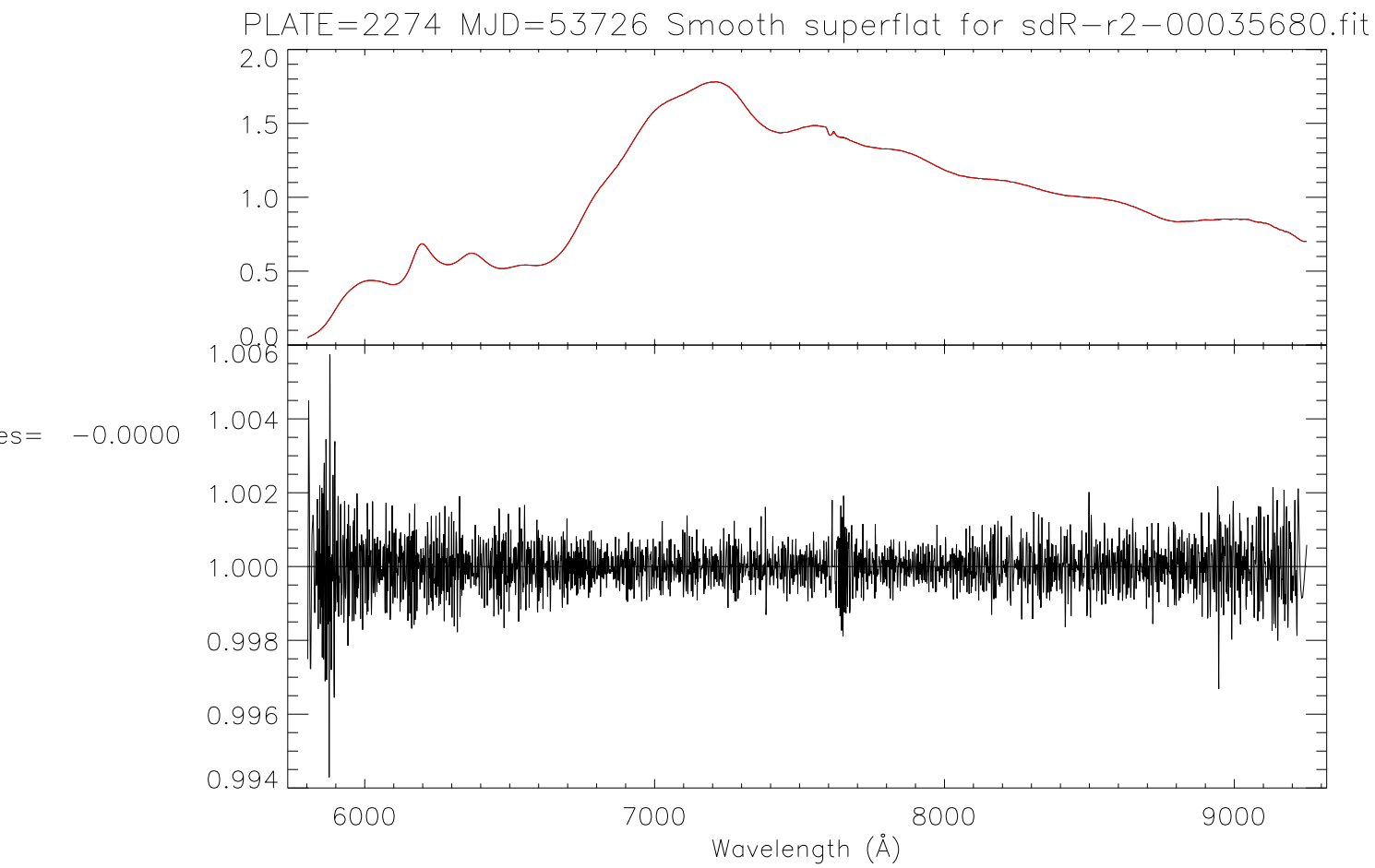

8430.1700
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

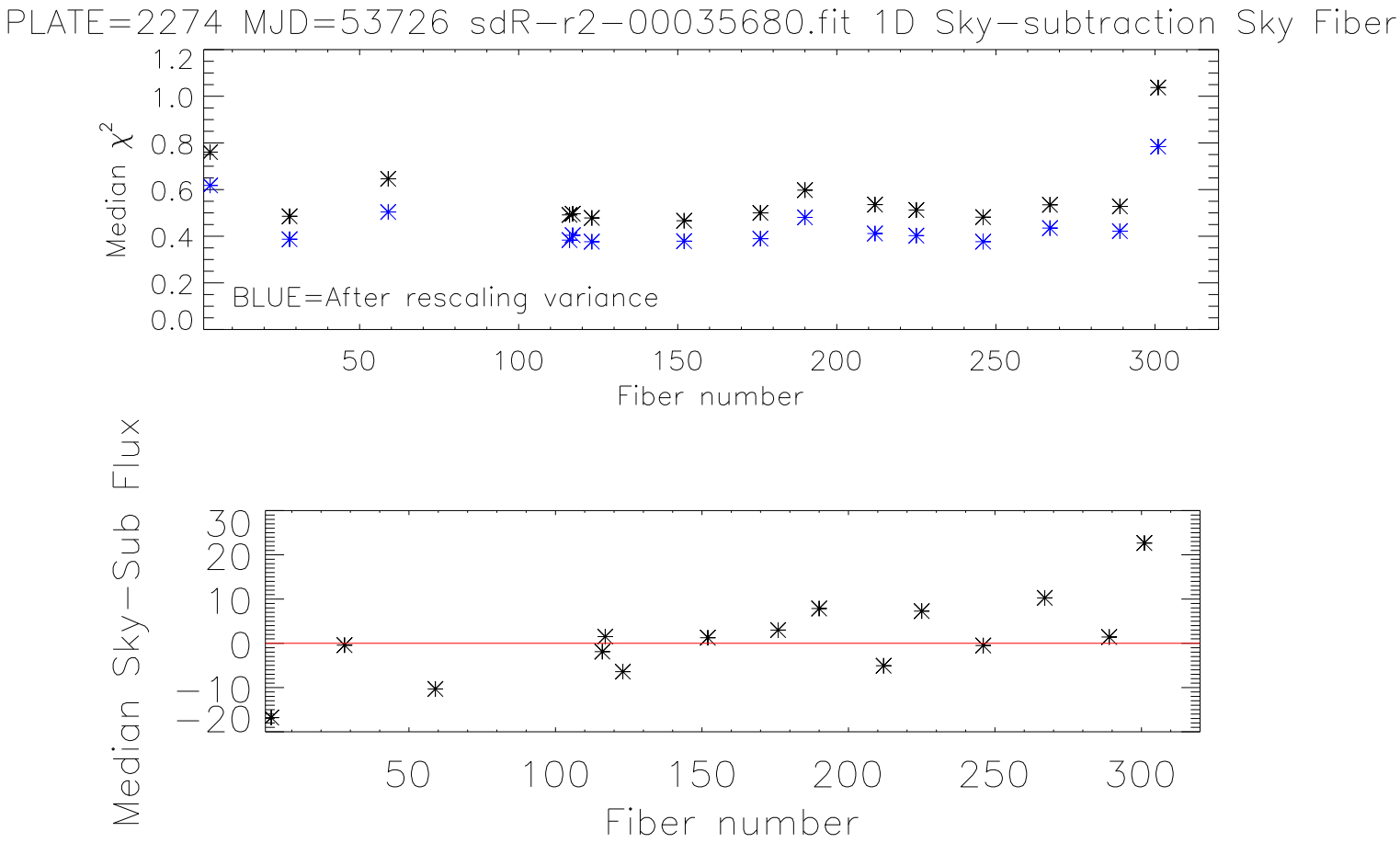

8885.8300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

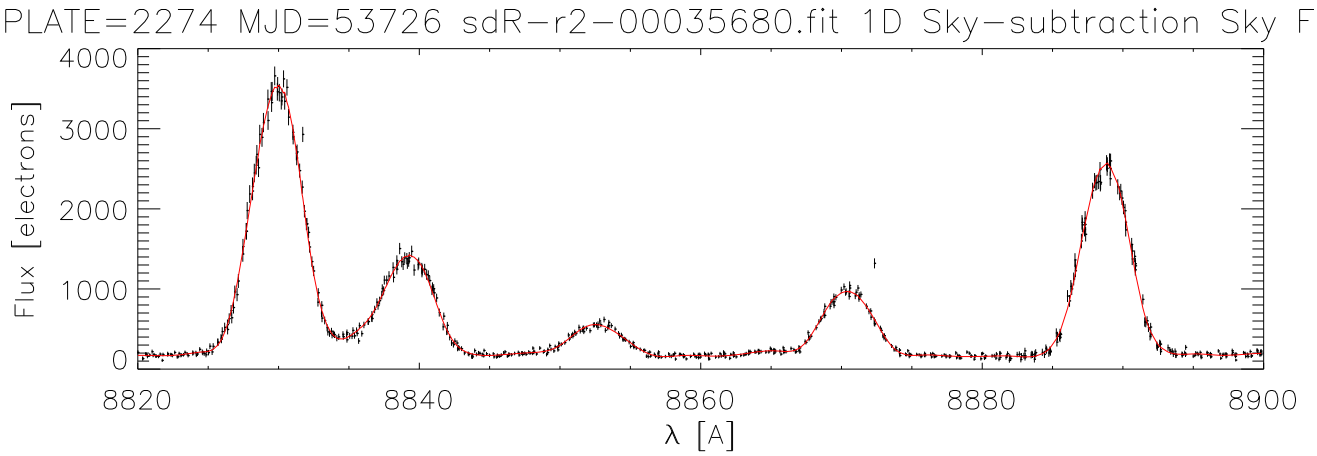

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

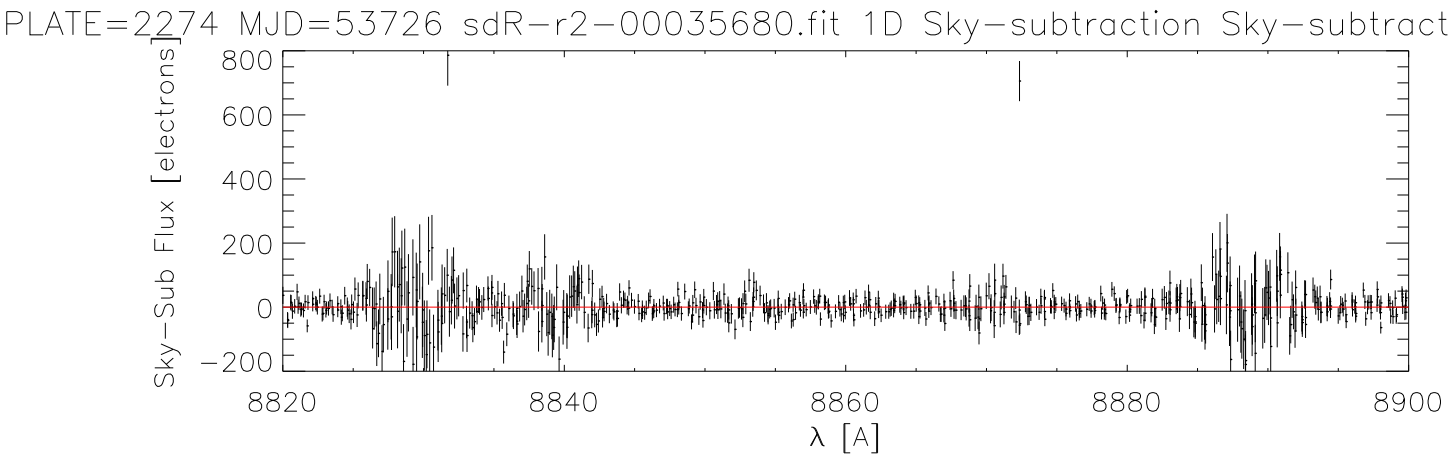

6300.3040
stdev 0.036
extra −0.15
6363.7760
stdev 0.023
extra 0.01
6553.6100
stdev 0.038
extra −0.14
6923.2100
stdev 0.027
extra −0.42
6949.0300
stdev 0.027
extra −0.05
7571.7500
stdev 0.029
extra −0.01
7794.1200
stdev 0.019
extra −0.15
7821.5100
stdev 0.016
extra −0.09
8399.1600
stdev 0.018
extra −0.07
8430.1700
stdev 0.024
extra −0.07
8885.8300
stdev 0.022
extra −0.03
8919.6100
stdev 0.028
extra −0.03
meas − pred, pix
mfhd2 16

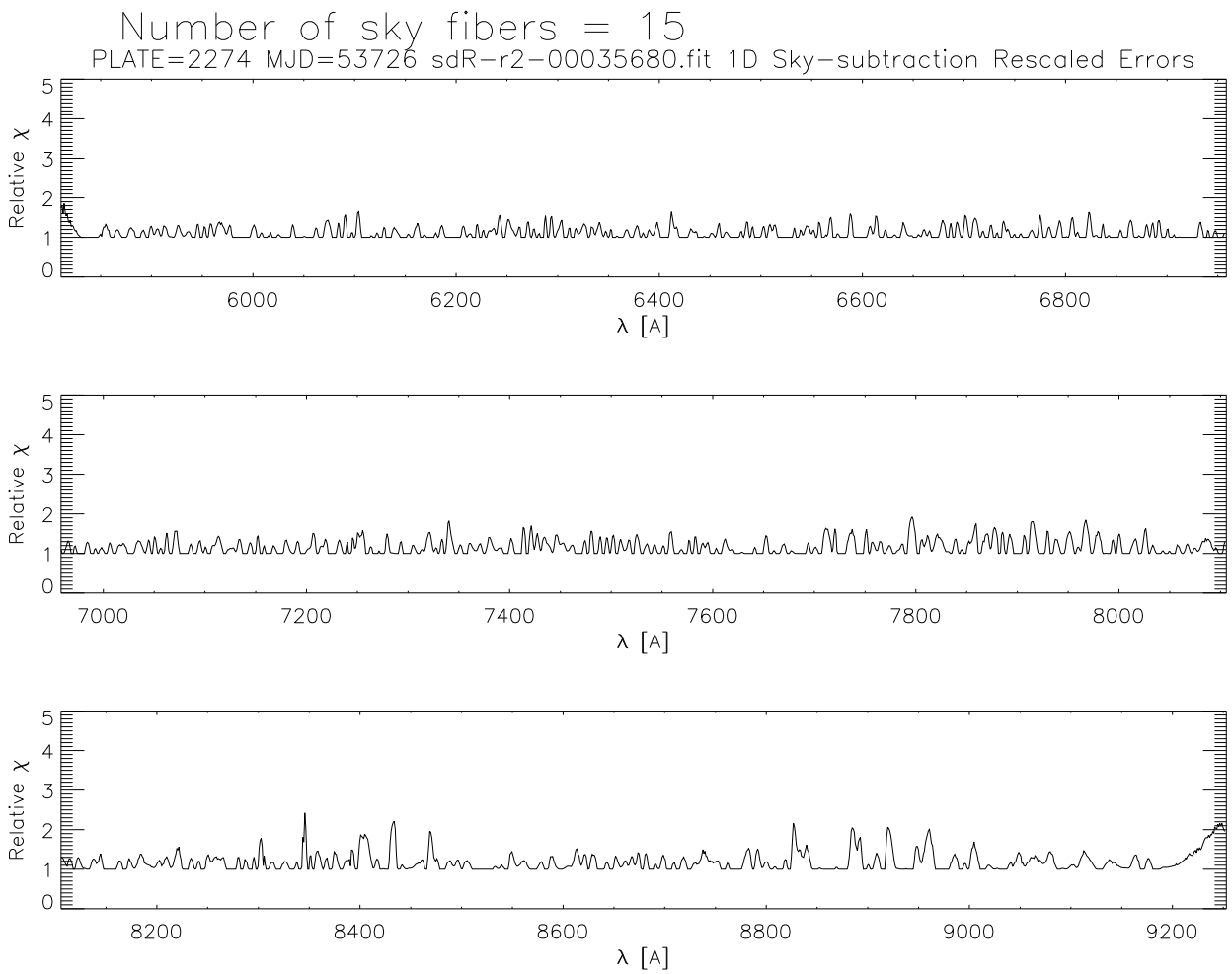

sky shift, pixels
0.00
−0.05
−0.10
−0.15
5000
6000
7000
8000
9000
10000

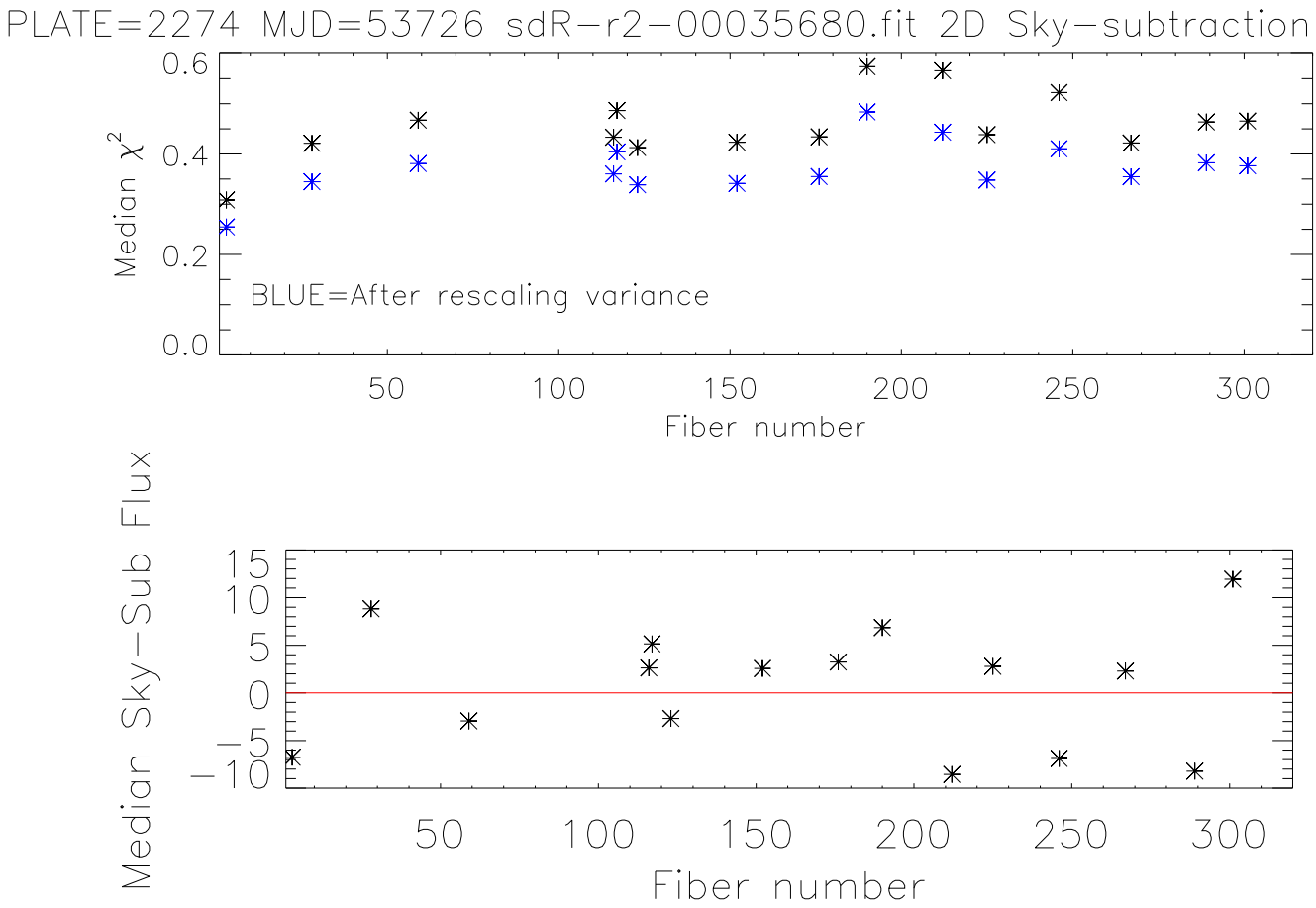

PLATE=2274 MJD=53726 Smooth superflat for sdR-r2-00035680.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

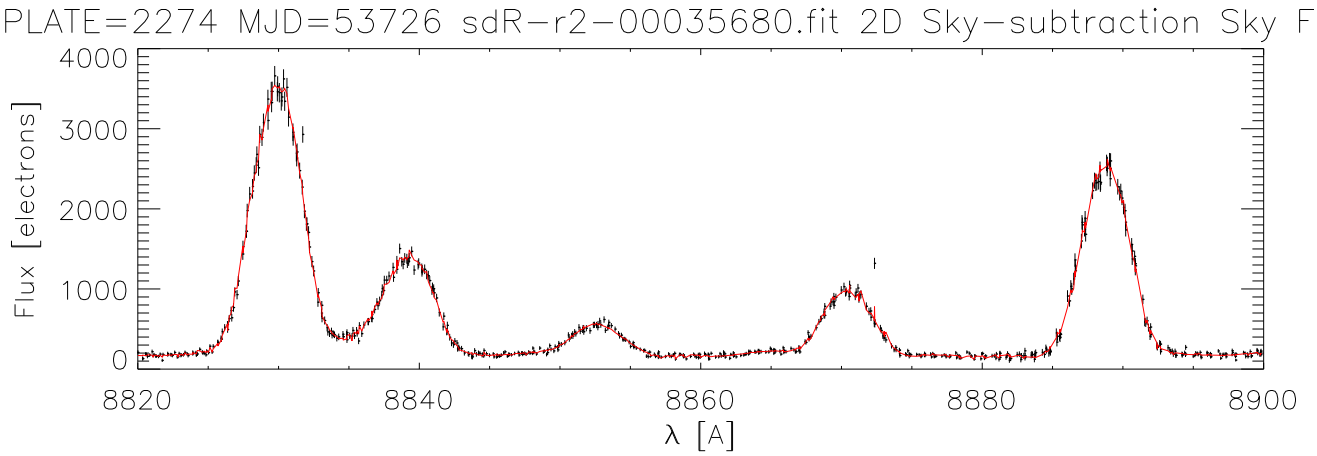

PLATE=2274 MJD=53726 sdR-r2-00035680.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

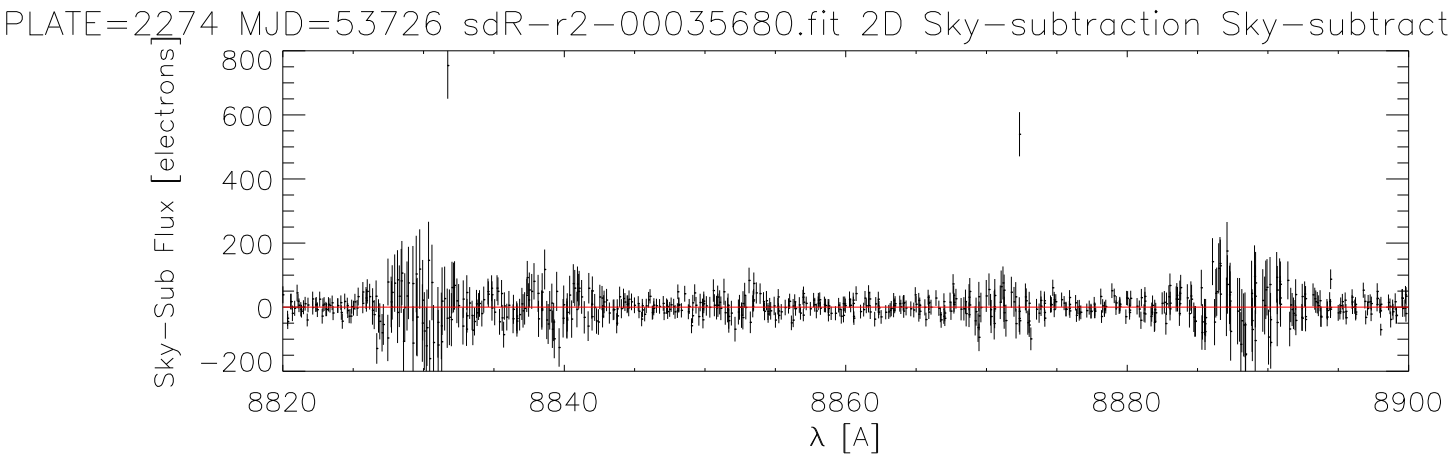

PLATE=2274 MJD=53726 sdR-r2-00035680.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

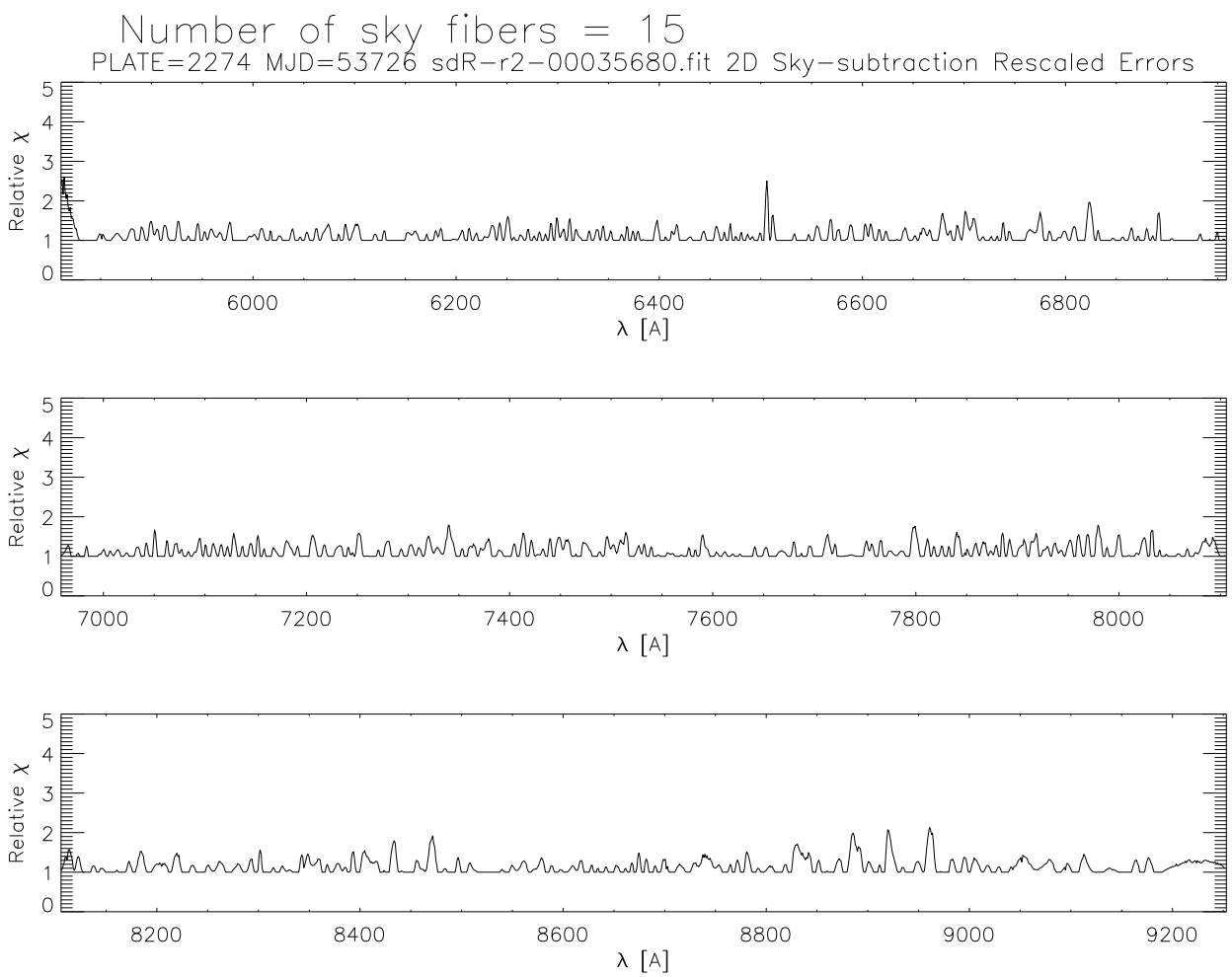

PLATE=2274 MJD=53726 sdR-r2-00035680.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

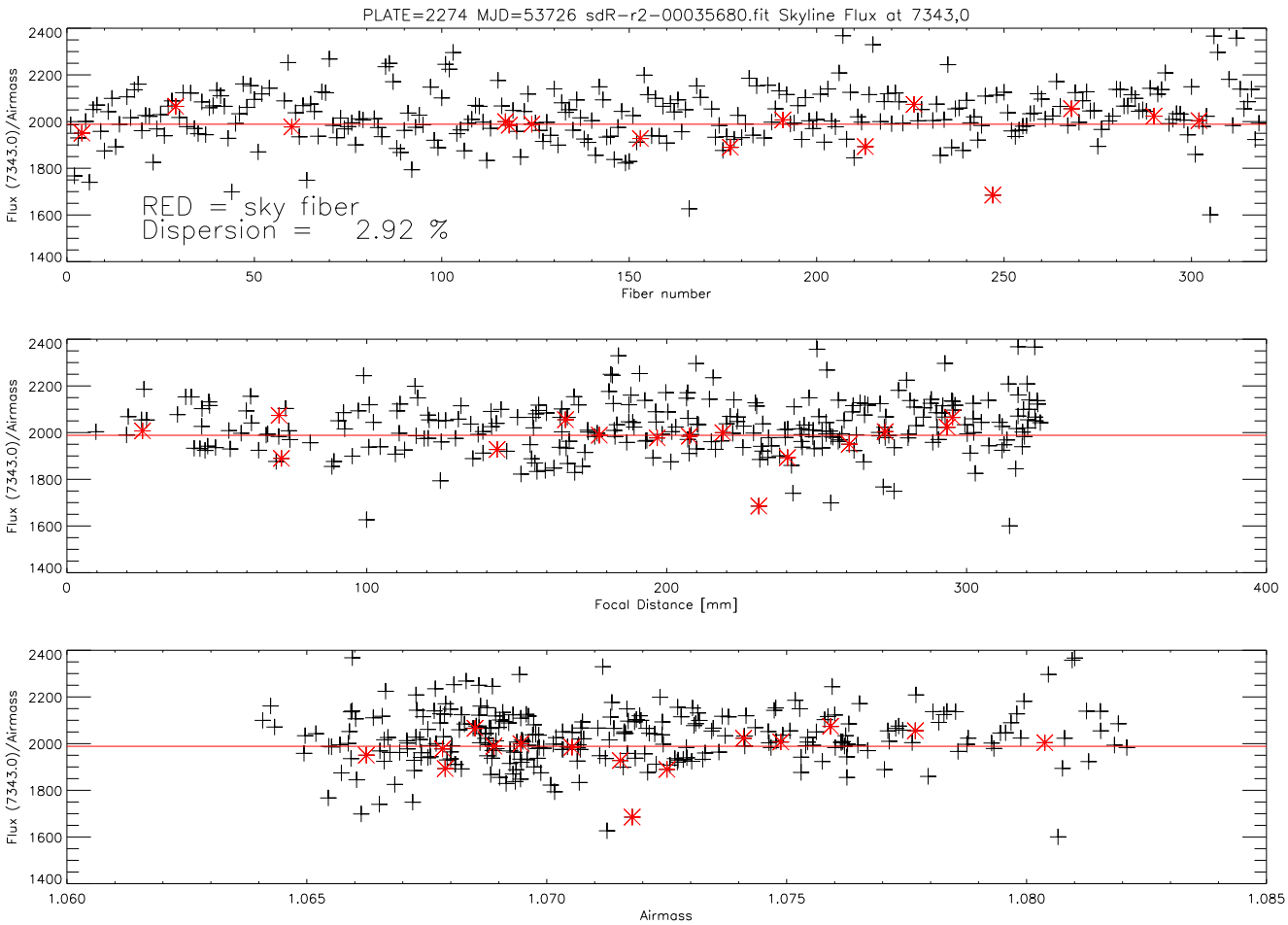

Number of sky fibers = 15
PLATE=2274 MJD=53726 sdR-r2-00035680.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

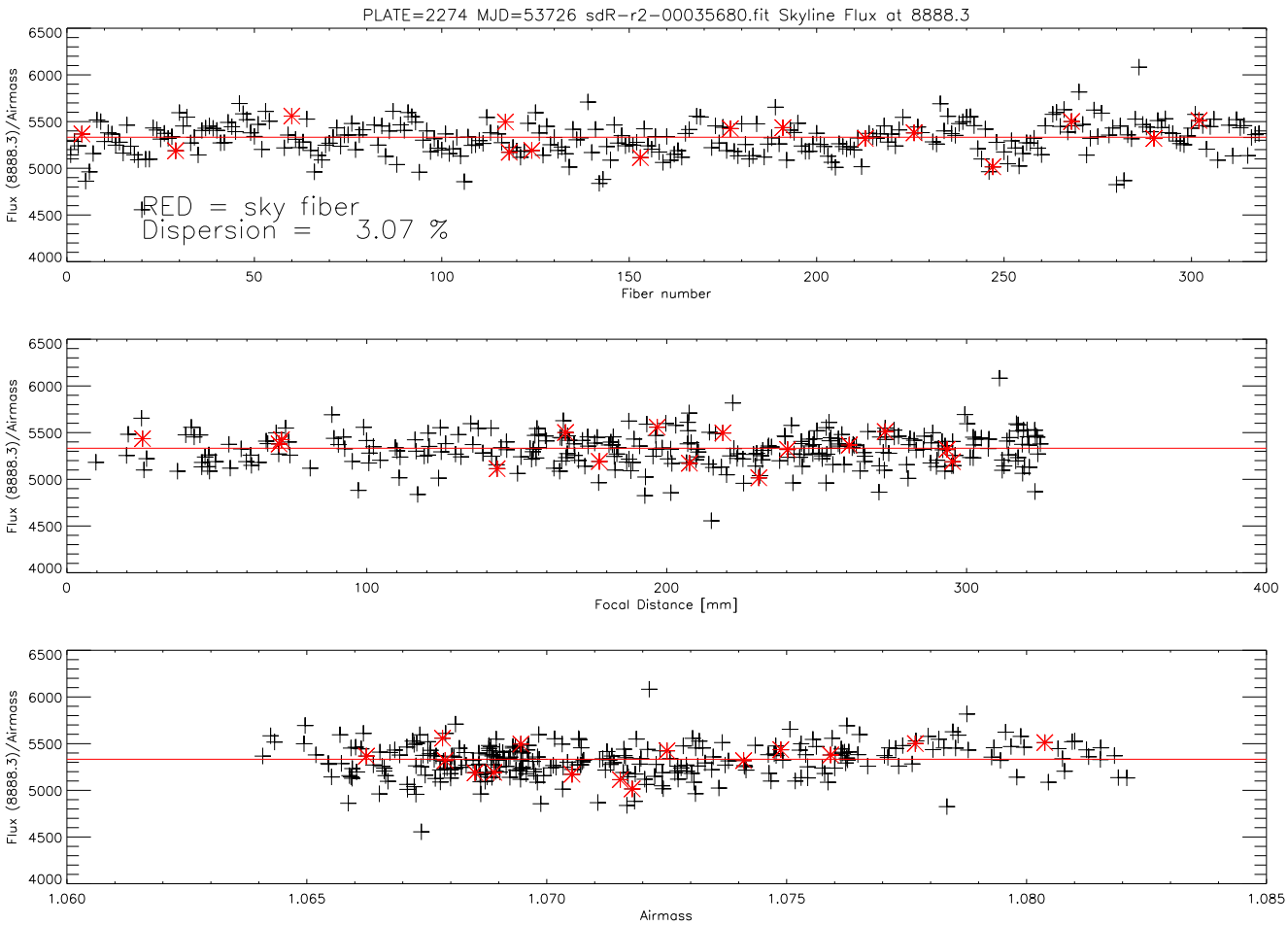

PLATE=2274 MJD=53726 sdR-r2-00035680.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
15
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

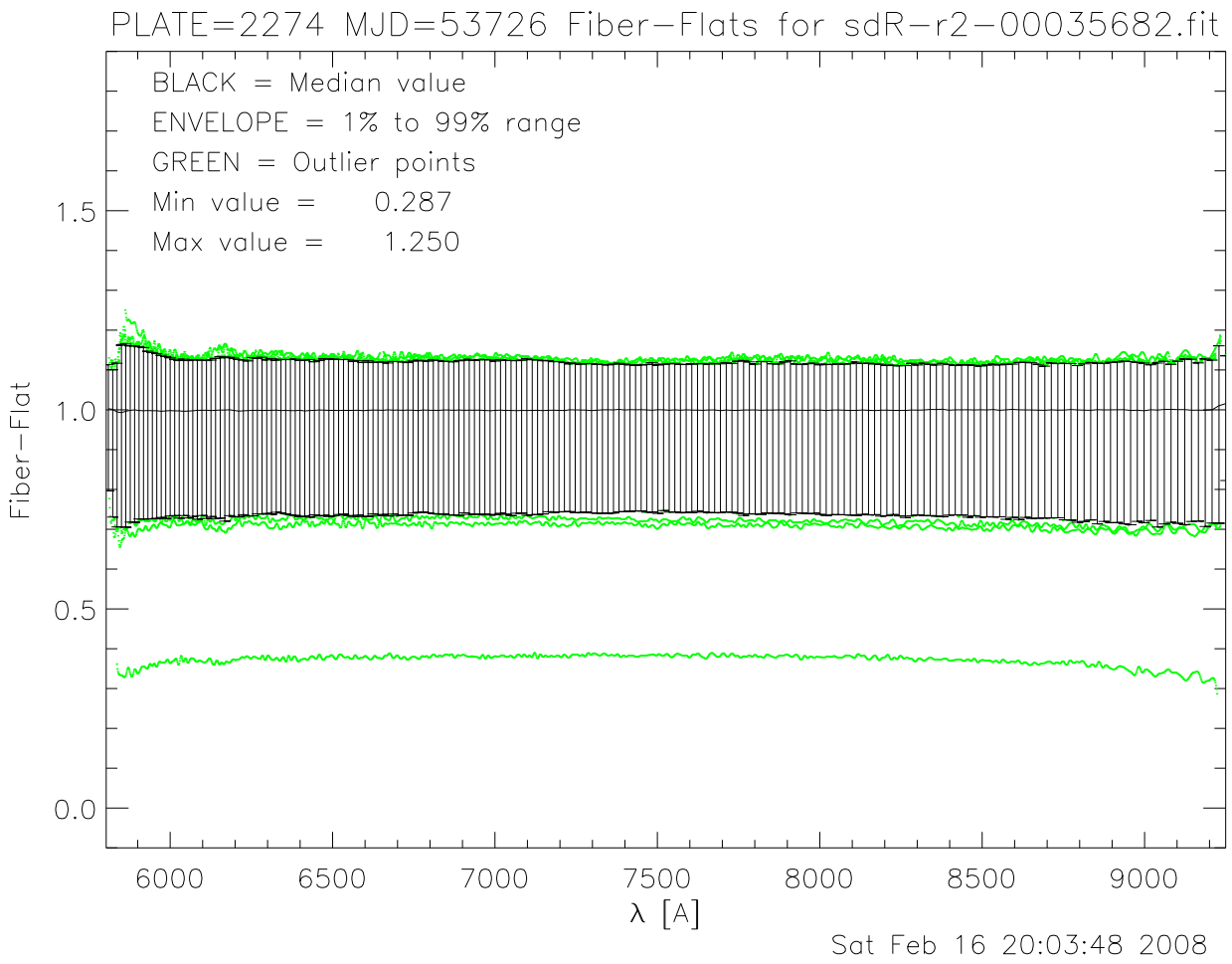

PLATE=2274 MJD=53726 sdR-r2-00035680.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

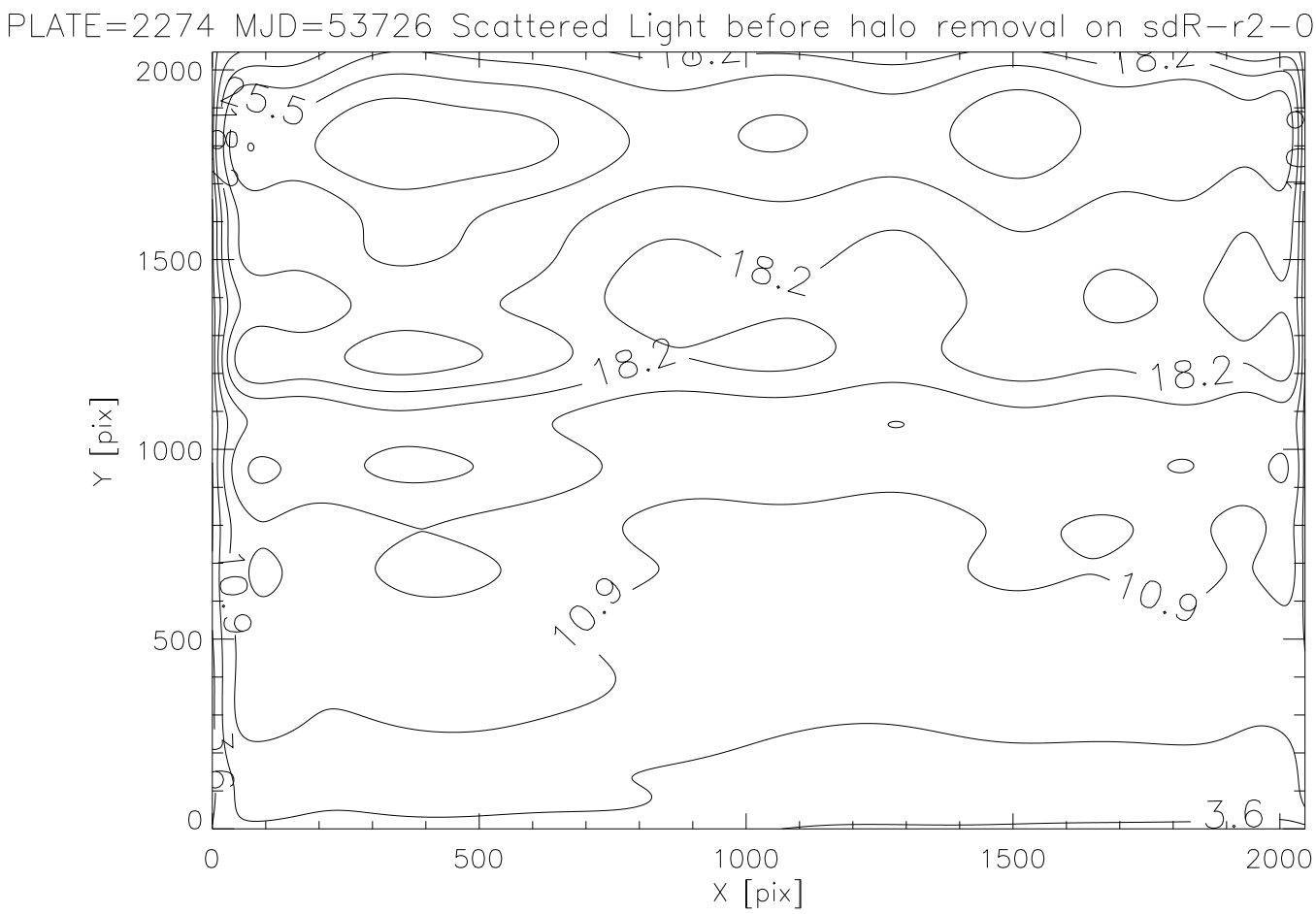

PLATE=2274 MJD=53726 sdR-r2-00035680.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

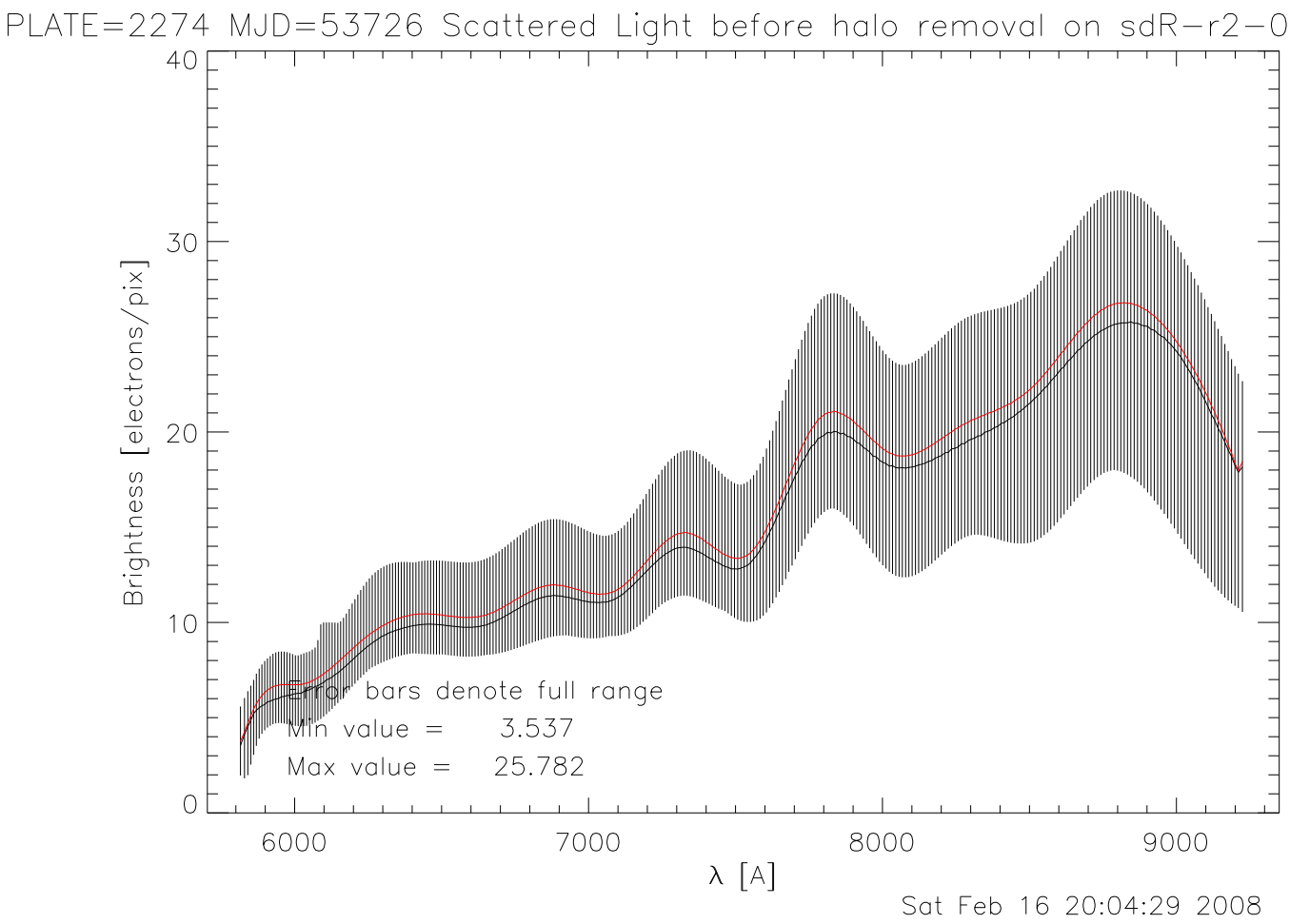

Number of sky fibers = 15
PLATE=2274 MJD=53726 sdR-r2-00035680.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

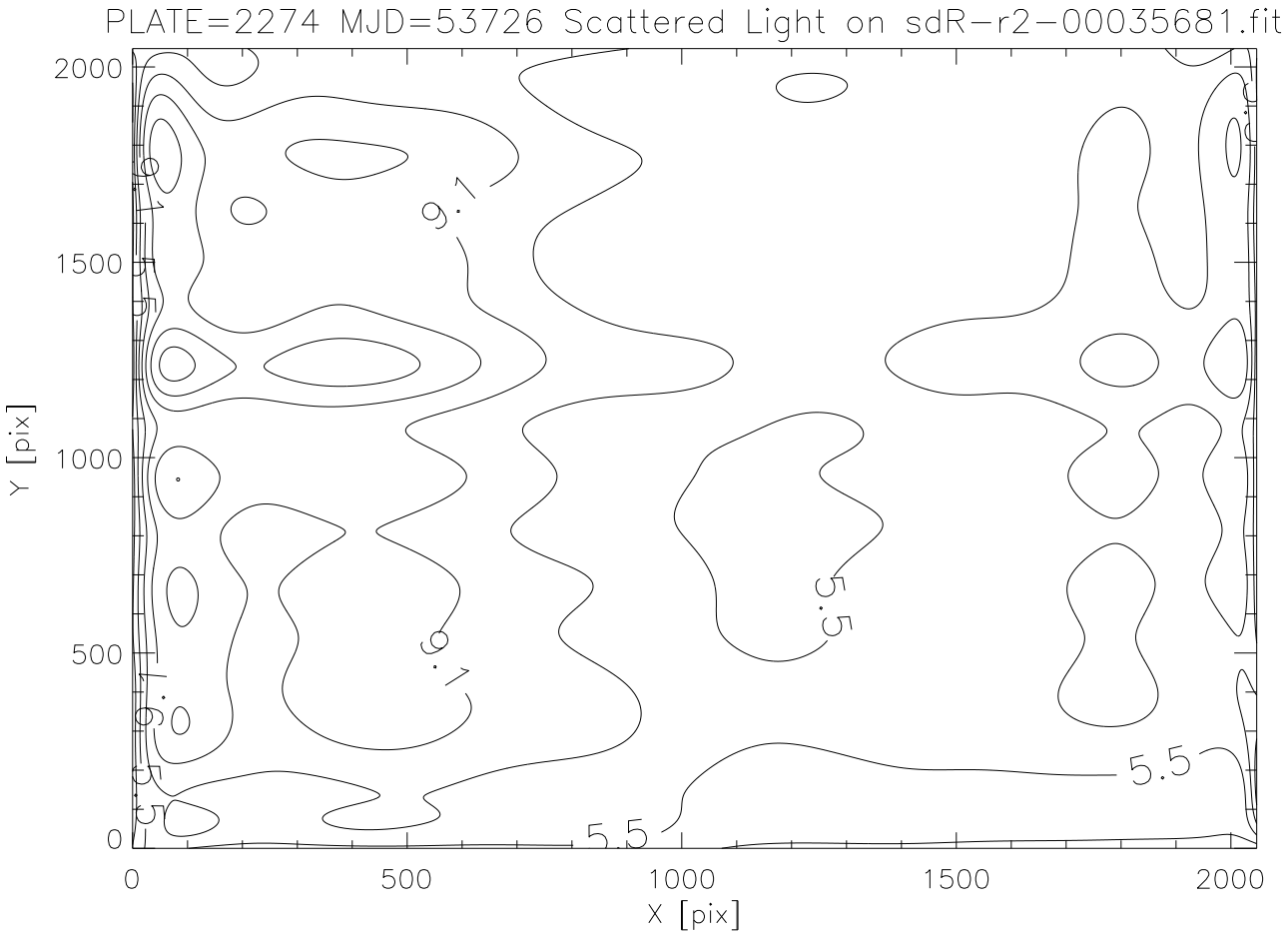

PLATE=2274 MJD=53726 sdR-r2-00035680.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.92 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

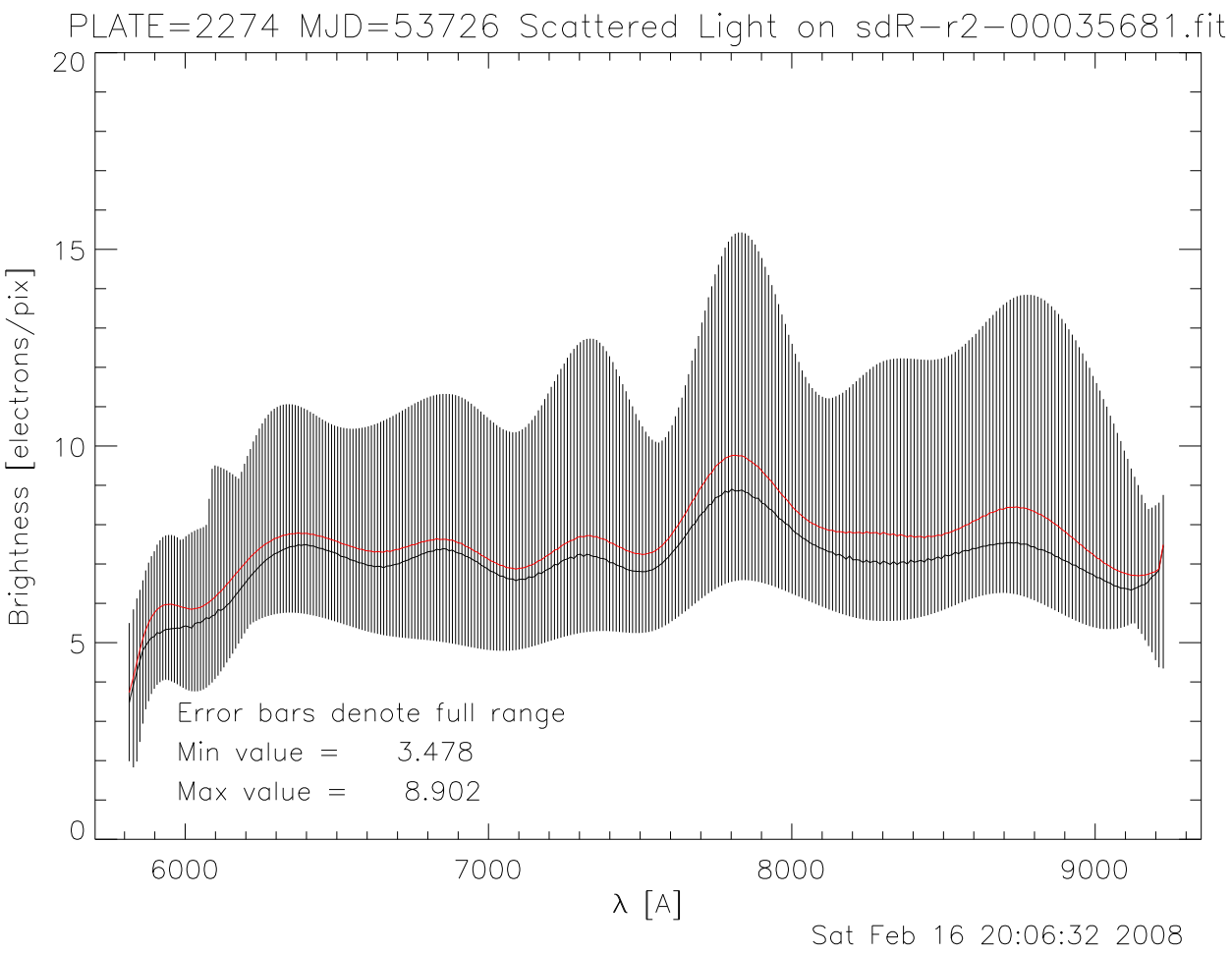

PLATE=2274 MJD=53726 sdR-r2-00035680.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.07 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

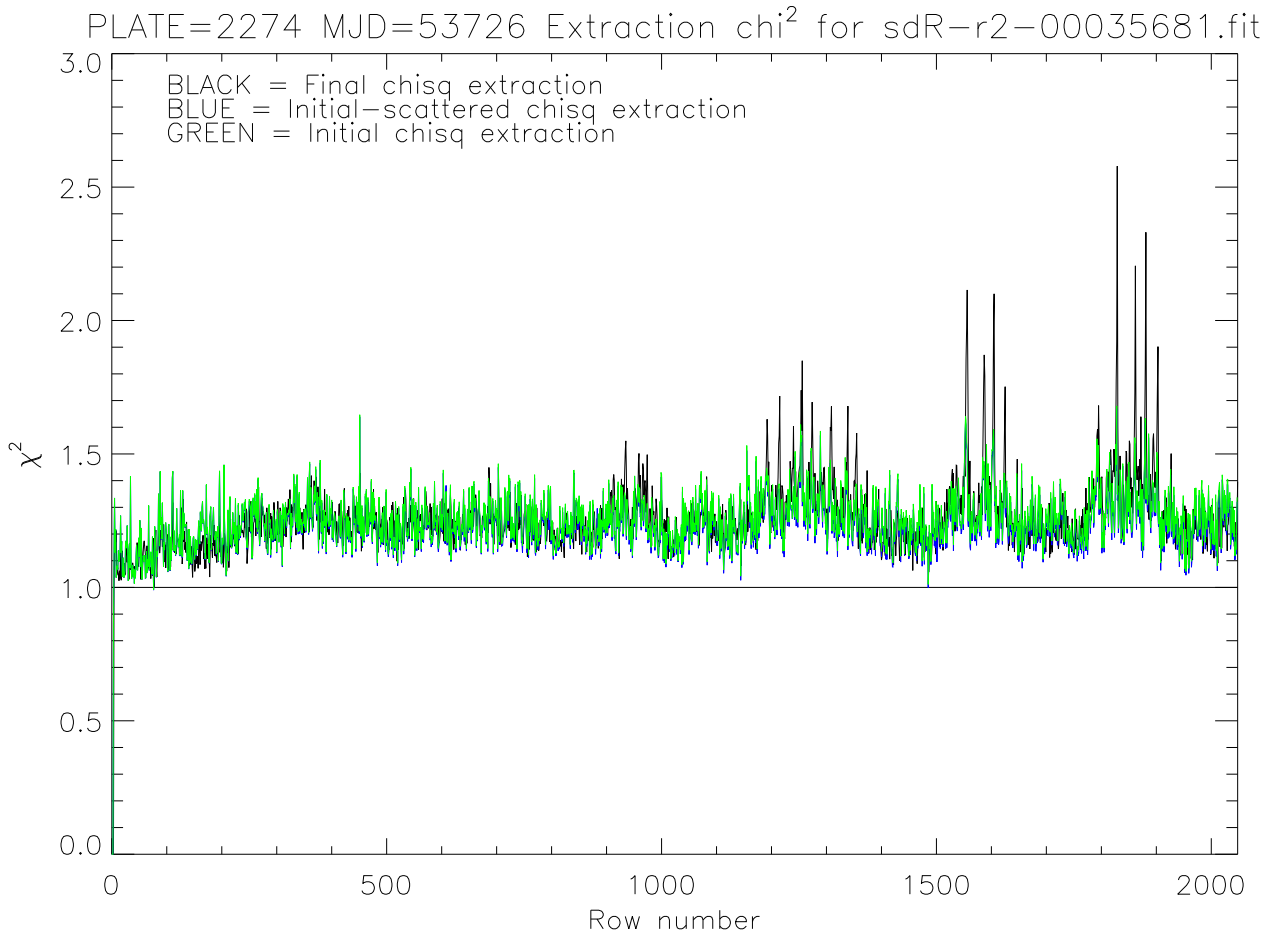

PLATE=2274 MJD=53726 Fiber−Flats for sdR−r2−00035682.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.287
Max value = 1.250
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sat Feb 16 20:03:48 2008

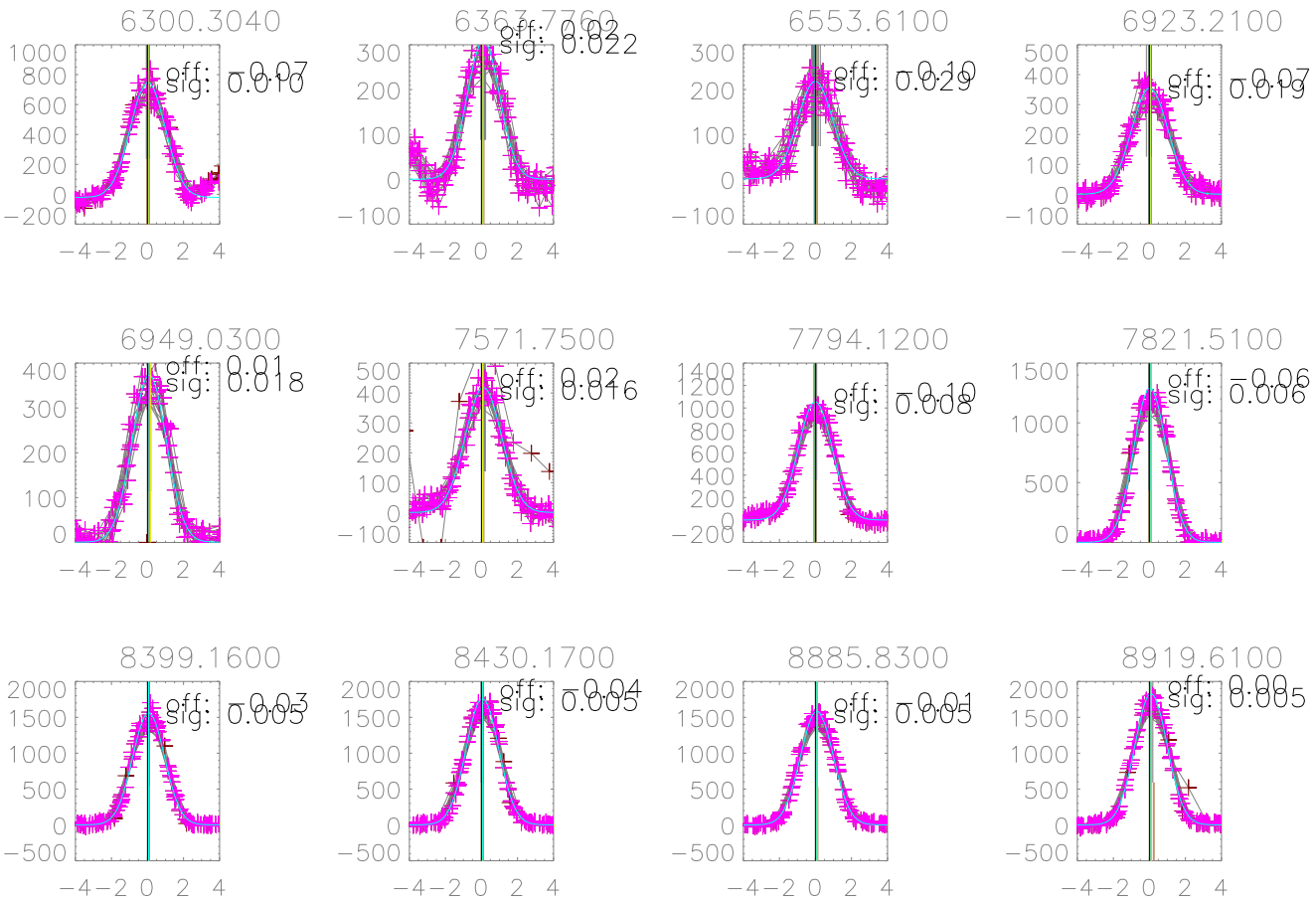

PLATE=2274 MJD=53726 Scattered Light before halo removal on sdR-r2-00035681.fi
18.2
18.2
25.5
18.2
18.2
18.2
0
0
0
10.9
10.9
10.9
3.6
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

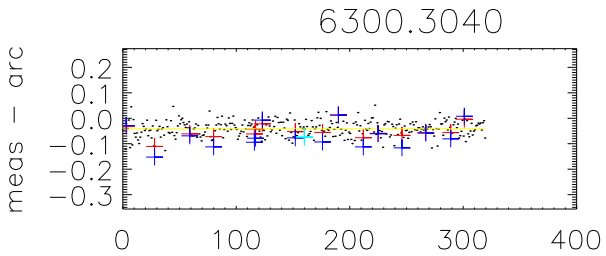

PLATE=2274 MJD=53726 Scattered Light before halo removal on sdR-r2-00035681.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.537
Max value = 25.782
Sat Feb 16 20:04:29 2008

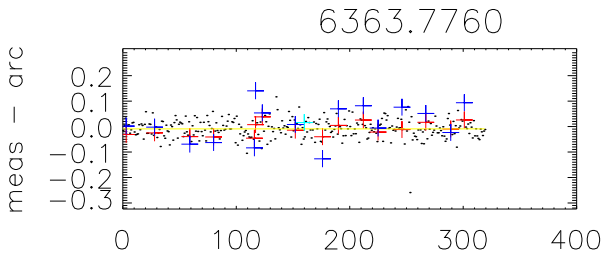

PLATE=2274 MJD=53726 Scattered Light on sdR-r2-00035681.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
9.1
6.9
5.5
5.5
5.5

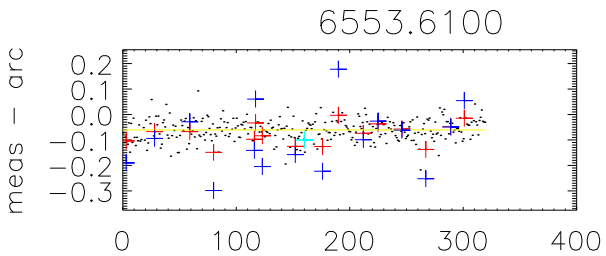

PLATE=2274 MJD=53726 Scattered Light on sdR-r2-00035681.fit
Brightness [electrons/pix]
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 3.478
Max value = 8.902
Sat Feb 16 20:06:32 2008

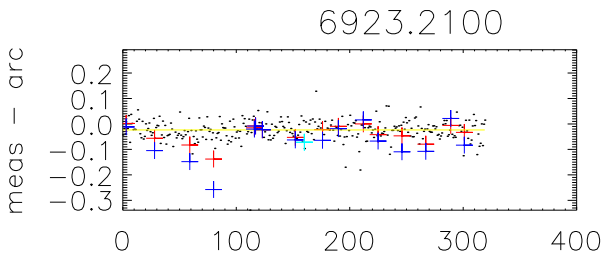

PLATE=2274 MJD=53726 Extraction chi^2 for sdR−r2−00035681.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

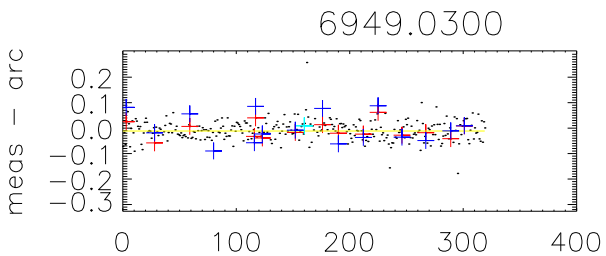

6300.3040
off: -0.07
sig: 0.010
6363.7760
off: 0.02
sig: 0.022
6553.6100
off: -0.10
sig: 0.029
6923.2100
off: -0.07
sig: 0.019
6949.0300
off: 0.01
sig: 0.018
7571.7500
off: 0.02
sig: 0.016
7794.1200
off: -0.10
sig: 0.008
7821.5100
off: -0.06
sig: 0.006
8399.1600
off: -0.03
sig: 0.005
8430.1700
off: -0.04
sig: 0.005
8885.8300
off: -0.01
sig: 0.005
8919.6100
off: 0.00
sig: 0.005

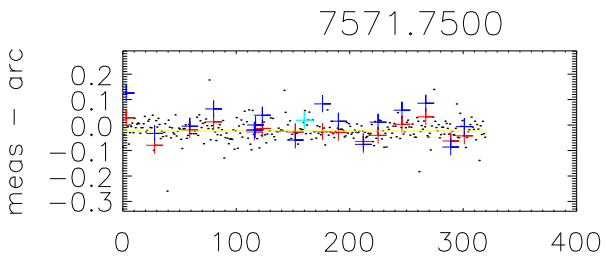

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

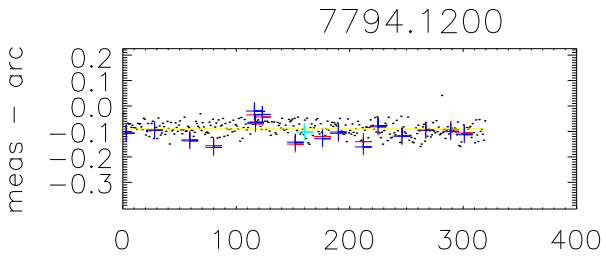

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

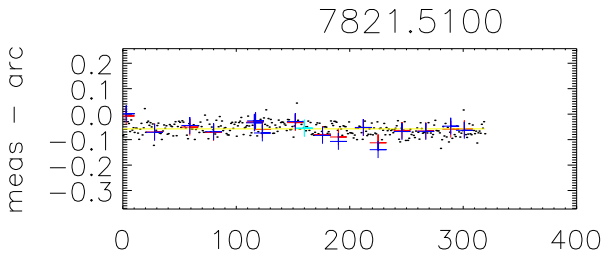

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

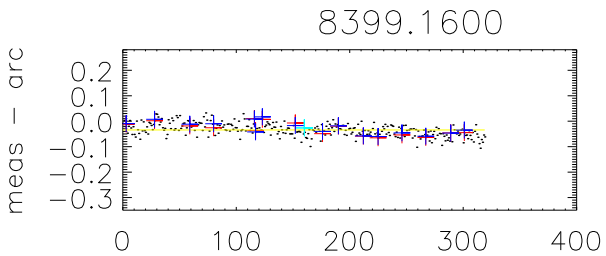

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

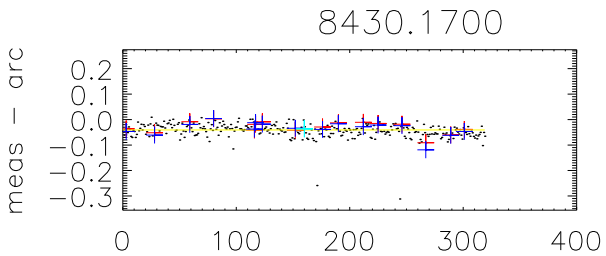

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

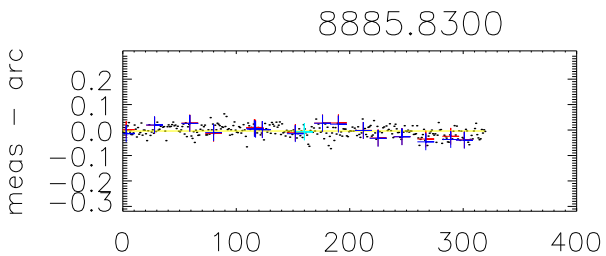

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

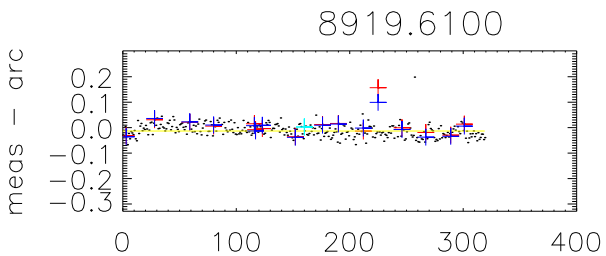

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

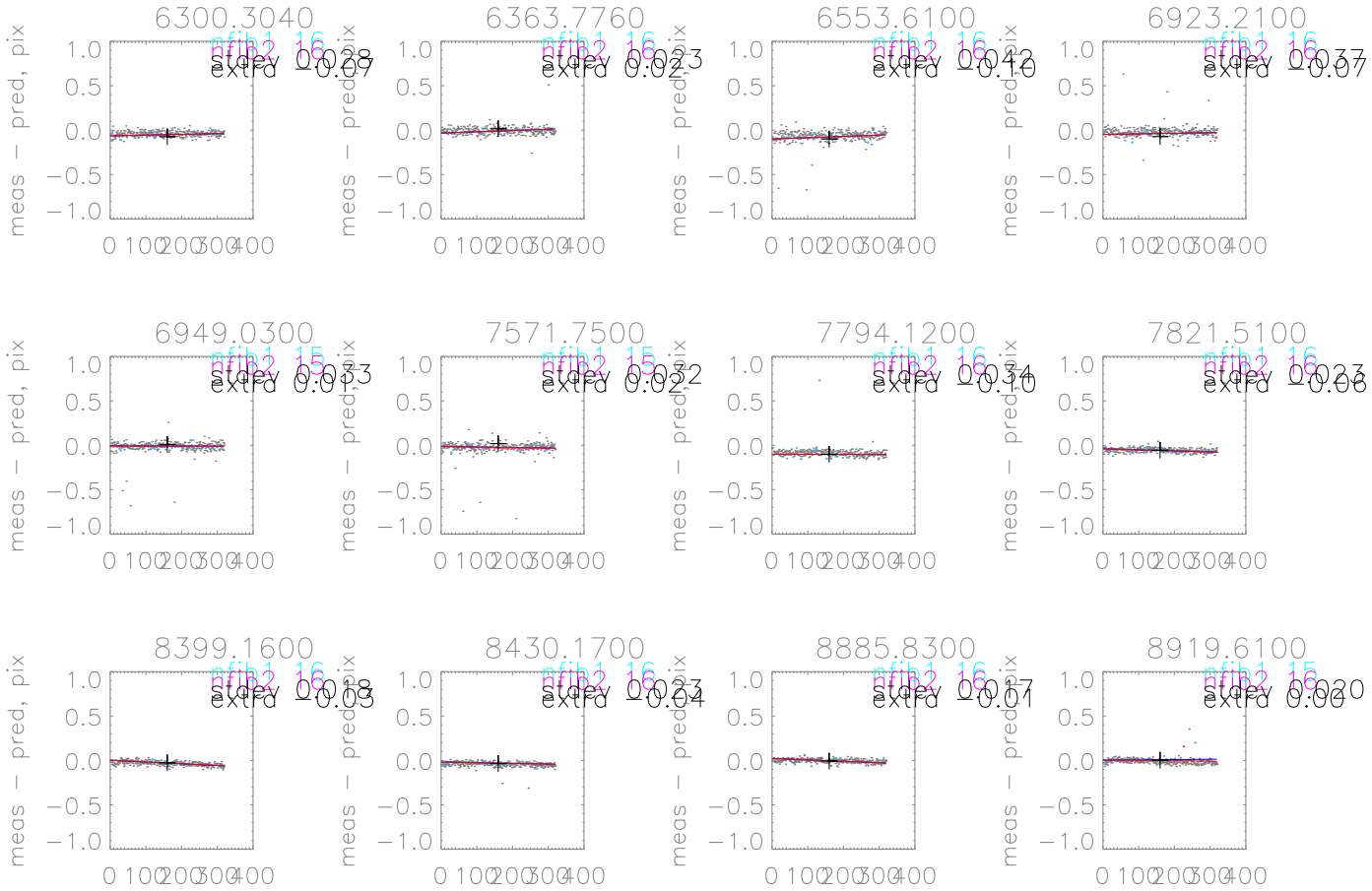

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

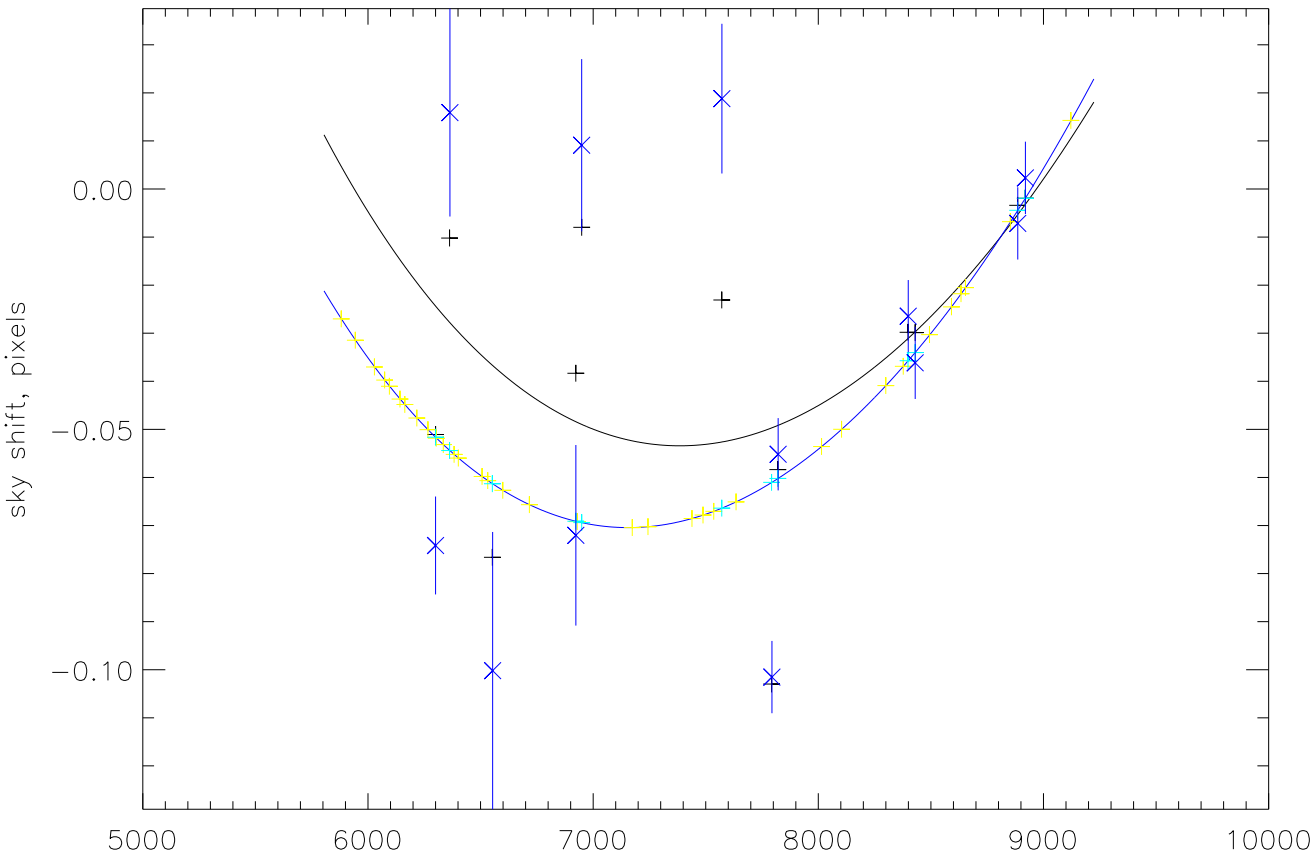

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

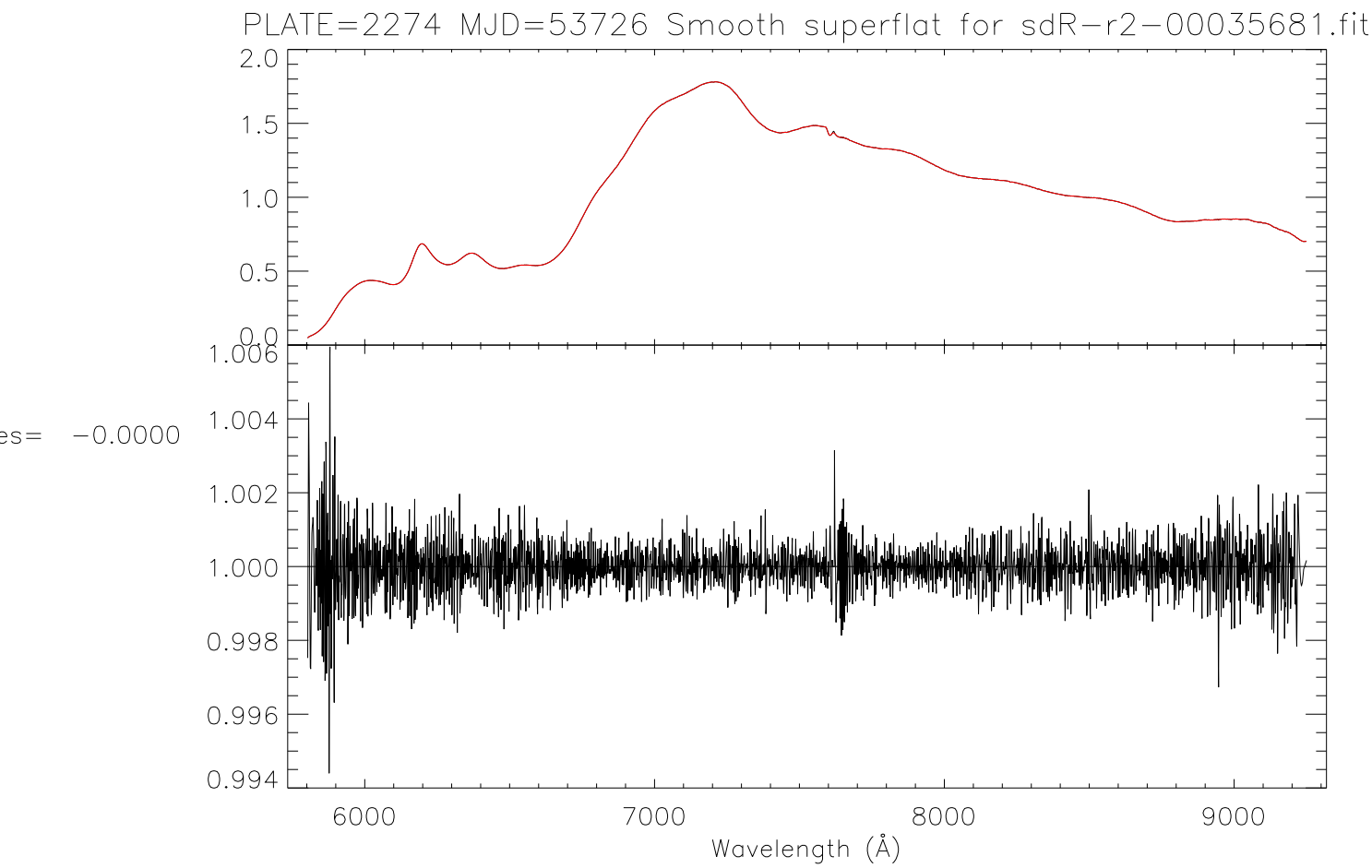

8430.1700
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


8885.8300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

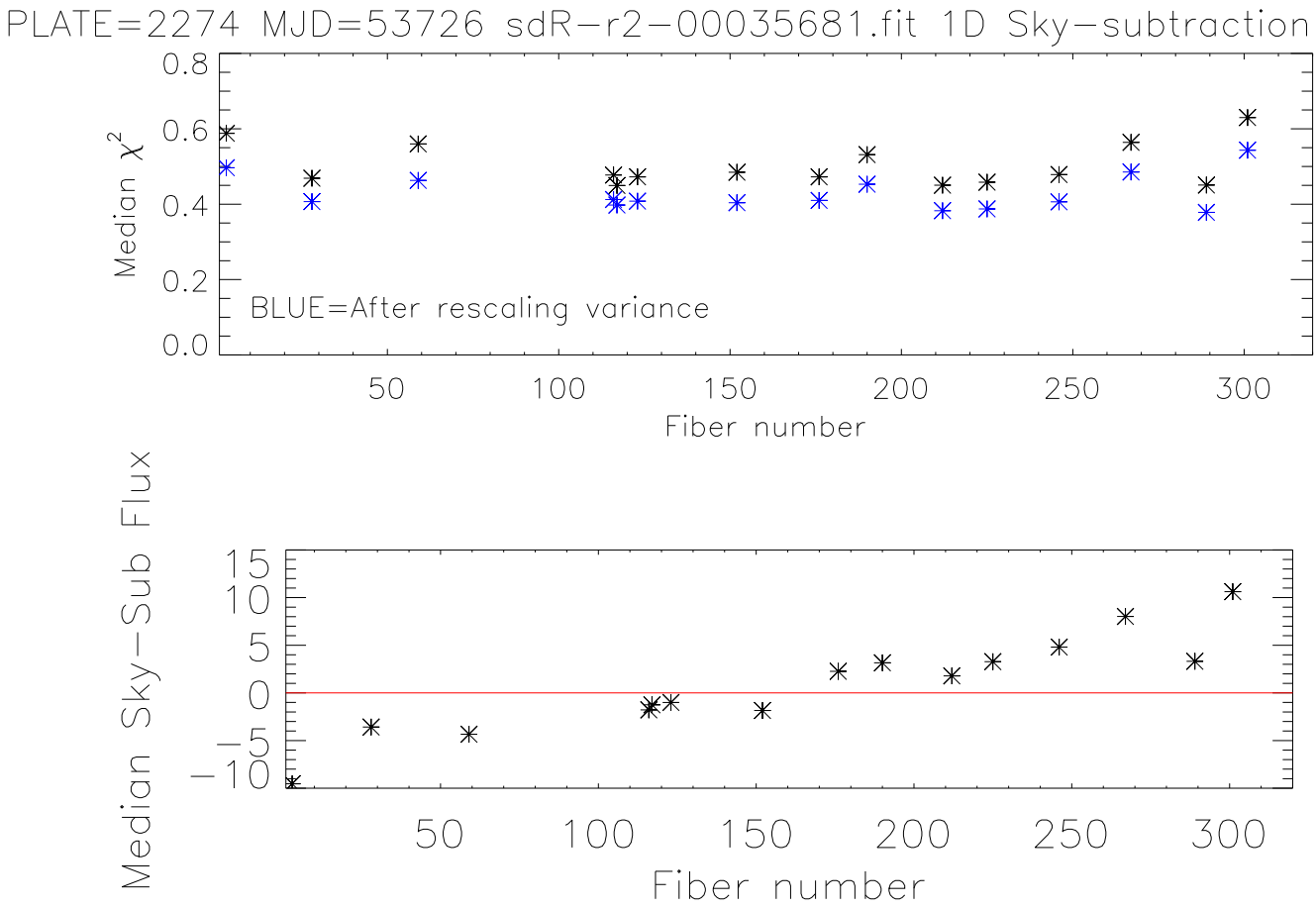

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

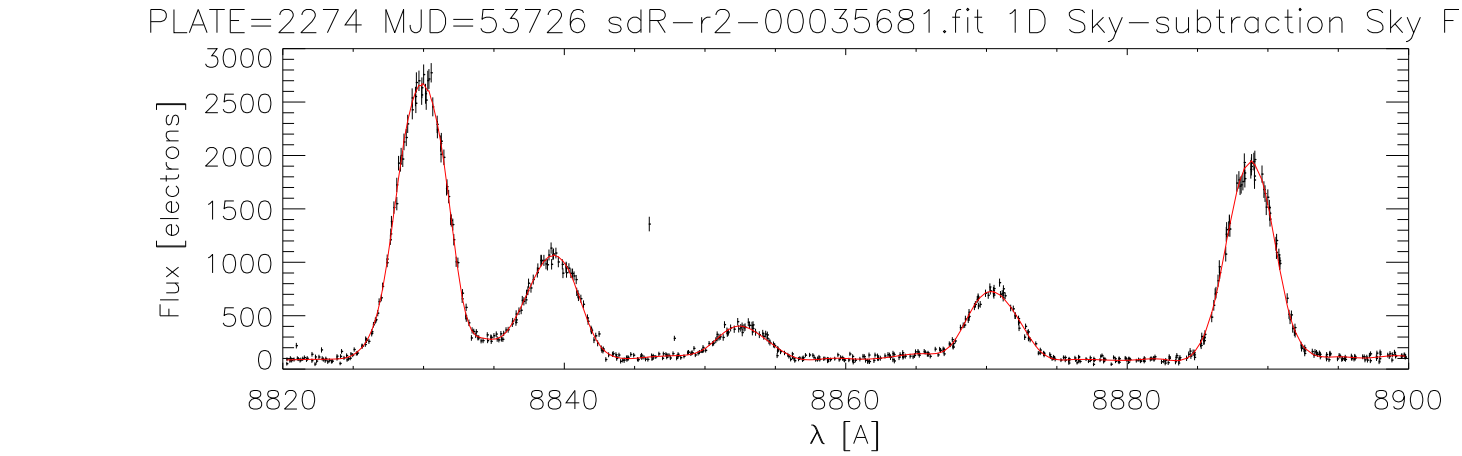

6300.3040
mfib1 16
mfib2 16
stdev 0.028
extra −0.07
6363.7760
mfib1 16
mfib2 16
stdev 0.023
extra 0.02
6553.6100
mfib1 16
mfib2 16
stdev 0.042
extra −0.10
6923.2100
mfib1 16
mfib2 16
stdev 0.037
extra −0.07
6949.0300
mfib1 15
mfib2 16
stdev 0.033
extra 0.01
7571.7500
mfib1 15
mfib2 16
stdev 0.032
extra 0.02
7794.1200
mfib1 16
mfib2 16
stdev 0.034
extra −0.10
7821.5100
mfib1 16
mfib2 16
stdev 0.023
extra −0.08
8399.1600
mfib1 16
mfib2 16
stdev 0.018
extra −0.03
8430.1700
mfib1 16
mfib2 16
stdev 0.023
extra −0.04
8885.8300
mfib1 16
mfib2 16
stdev 0.017
extra −0.01
8919.6100
mfib1 15
mfib2 16
stdev 0.020
extra 0.00
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

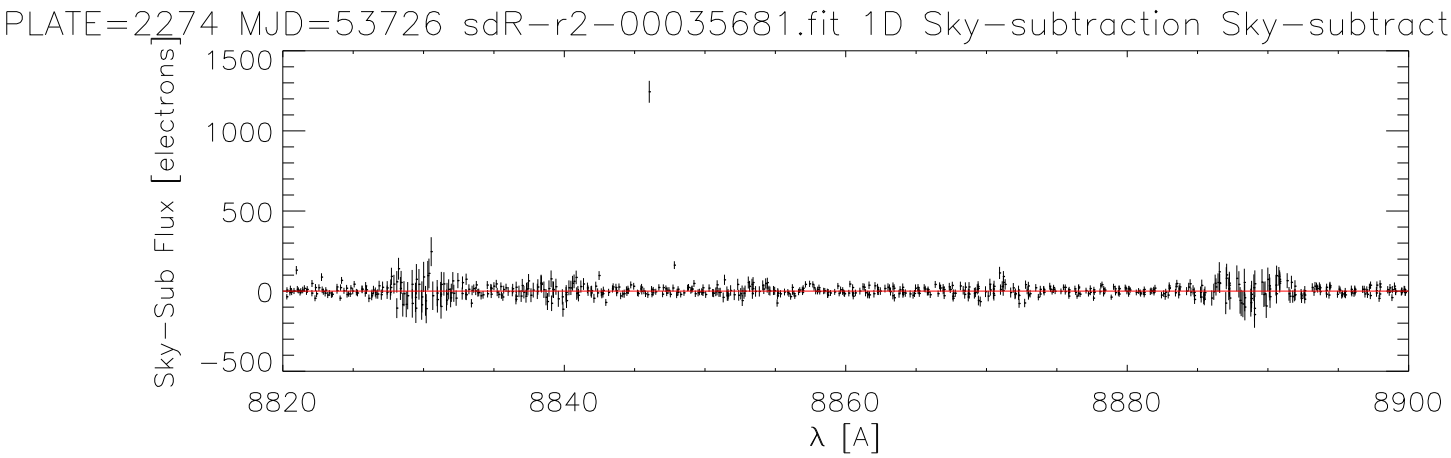

0.00
−0.05
−0.10
sky shift, pixels
5000
6000
7000
8000
9000
10000

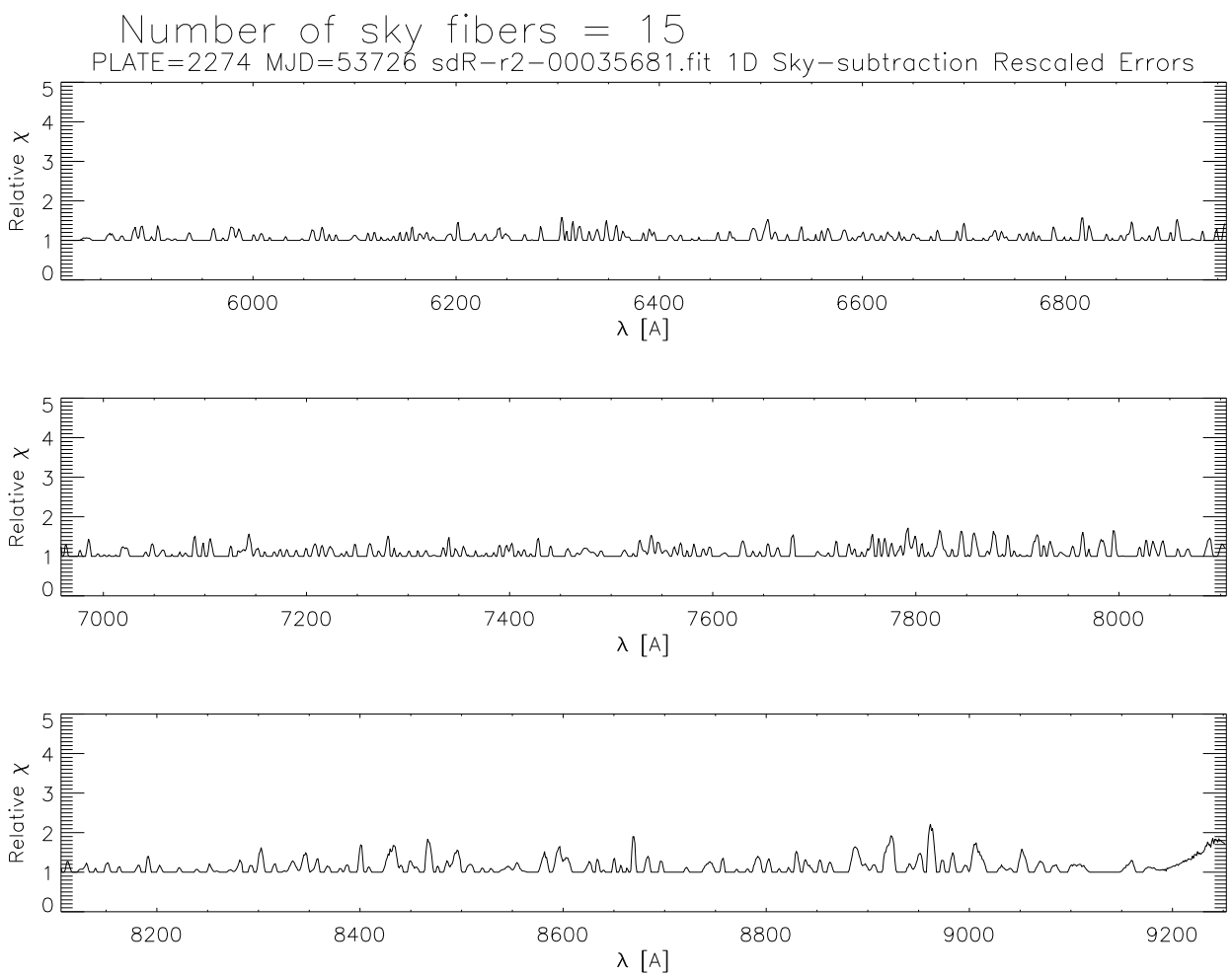

PLATE=2274 MJD=53726 Smooth superflat for sdR-r2-00035681.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
6000
7000
8000
9000
Wavelength (Å)

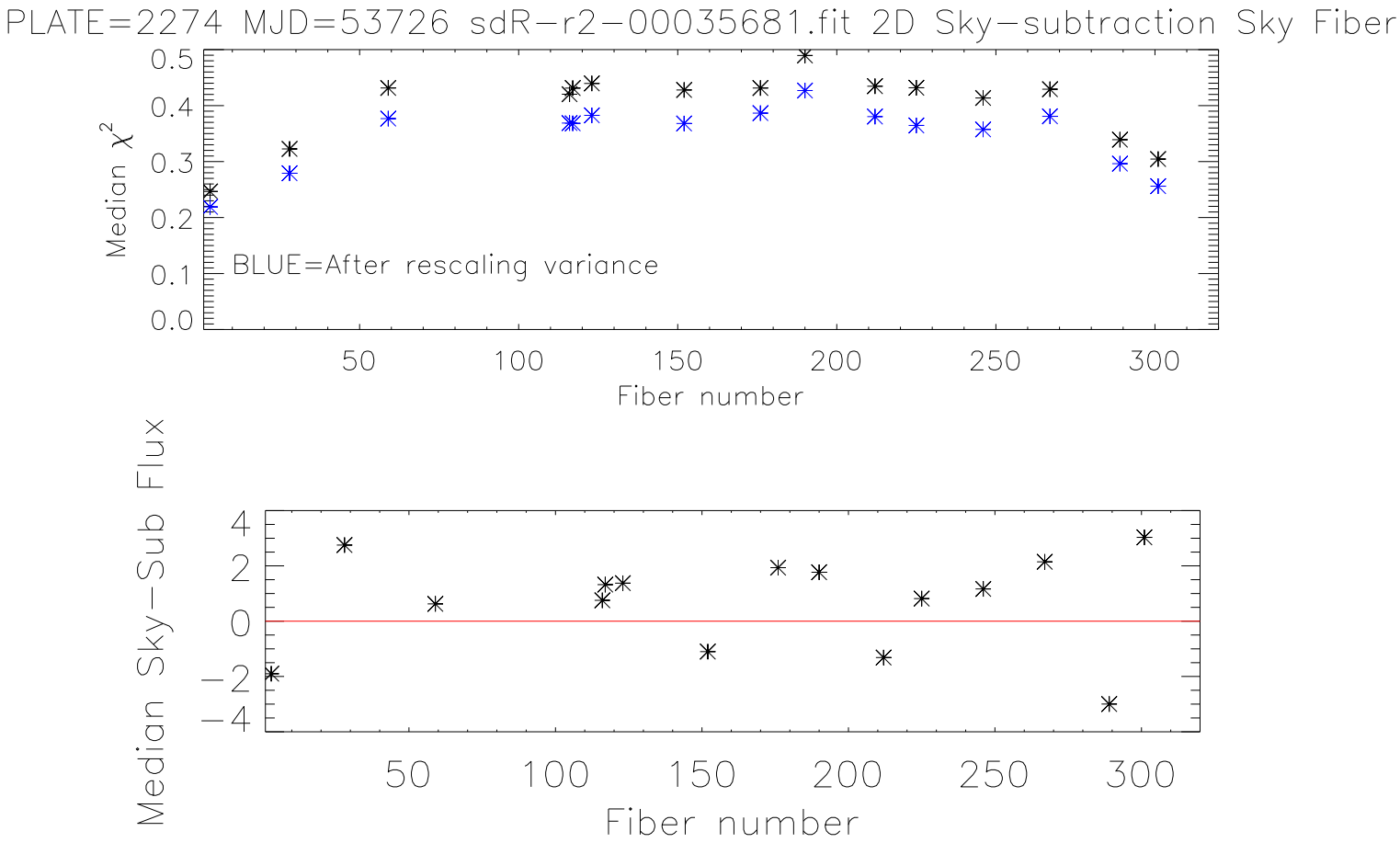
es= −0.0000

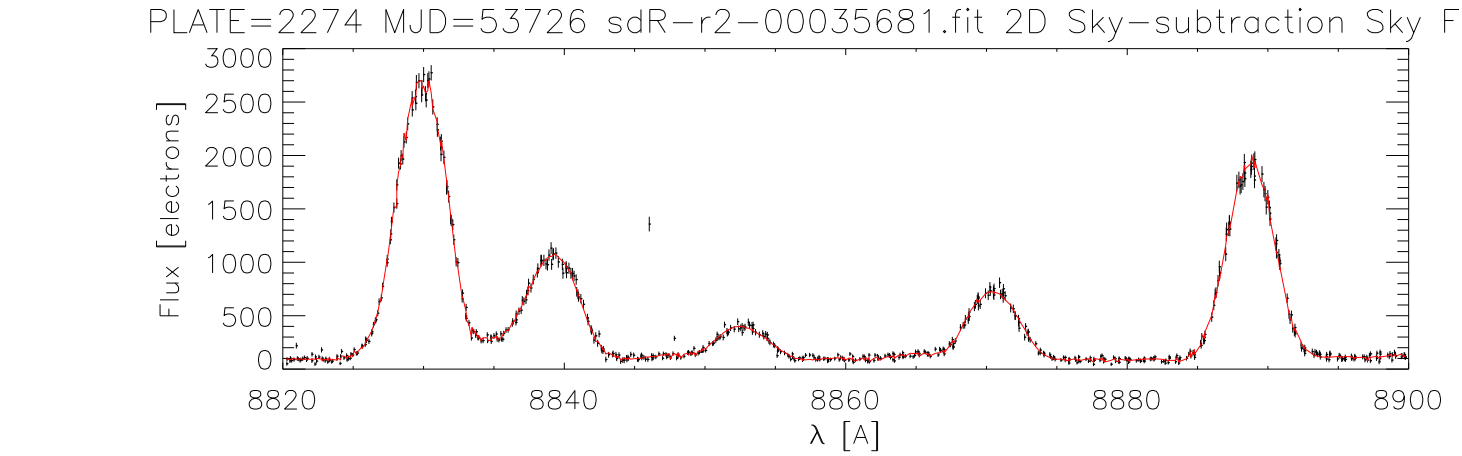

PLATE=2274 MJD=53726 sdR-r2-00035681.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
−10
−5
0
5
10
15
50
100
150
200
250
300
Fiber number

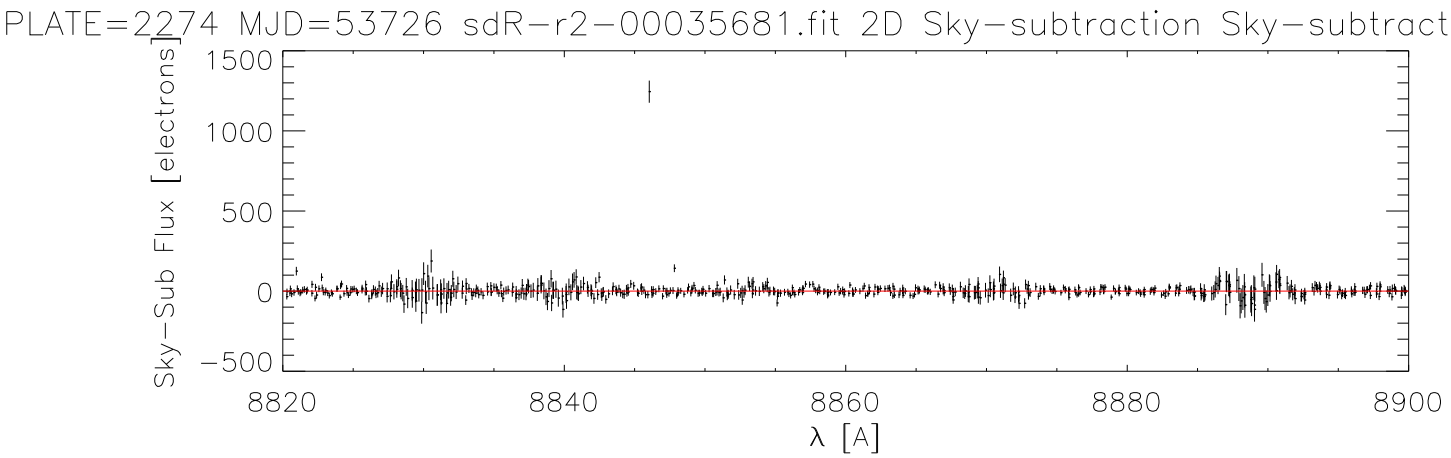

PLATE=2274 MJD=53726 sdR-r2-00035681.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

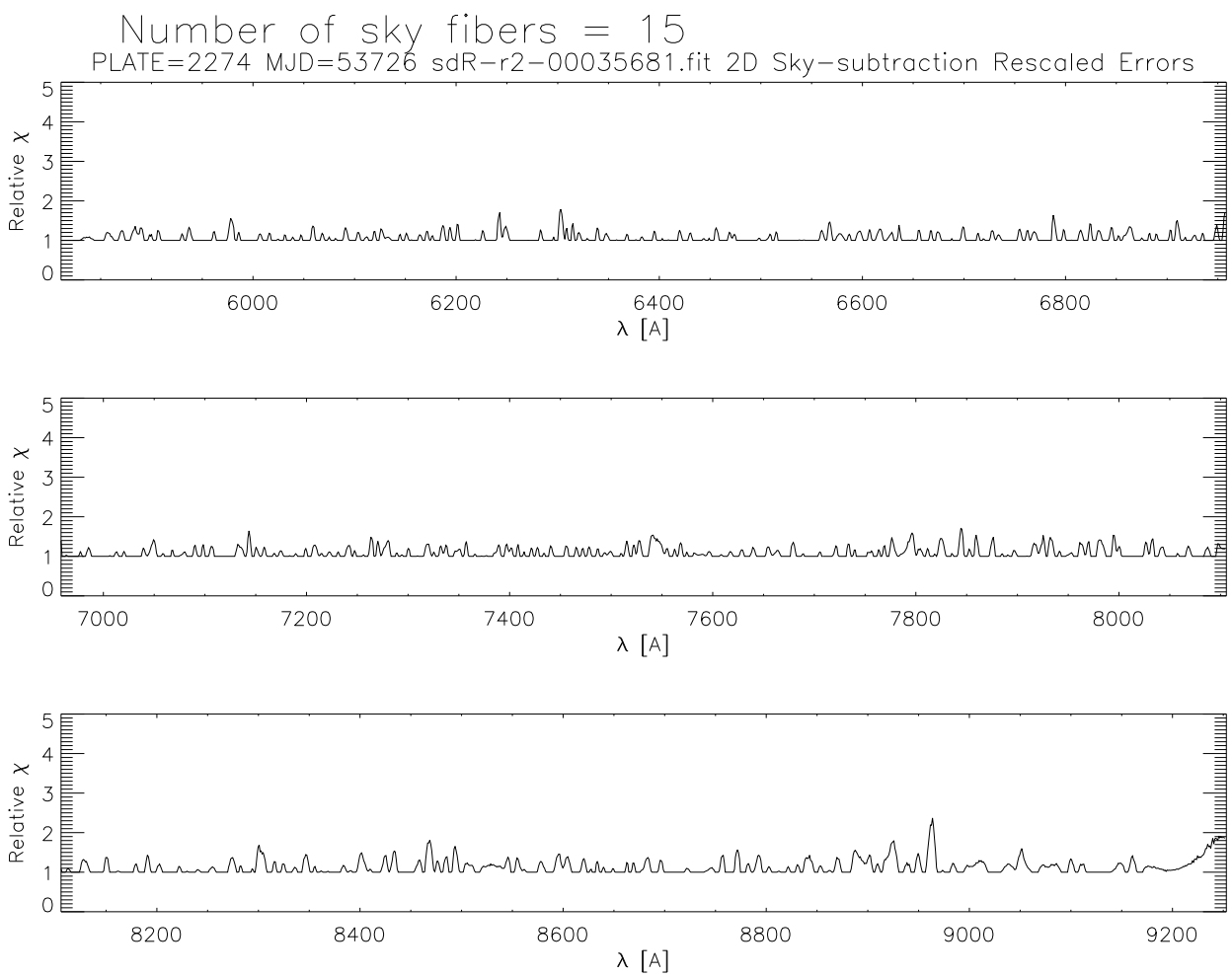

PLATE=2274 MJD=53726 sdR-r2-00035681.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

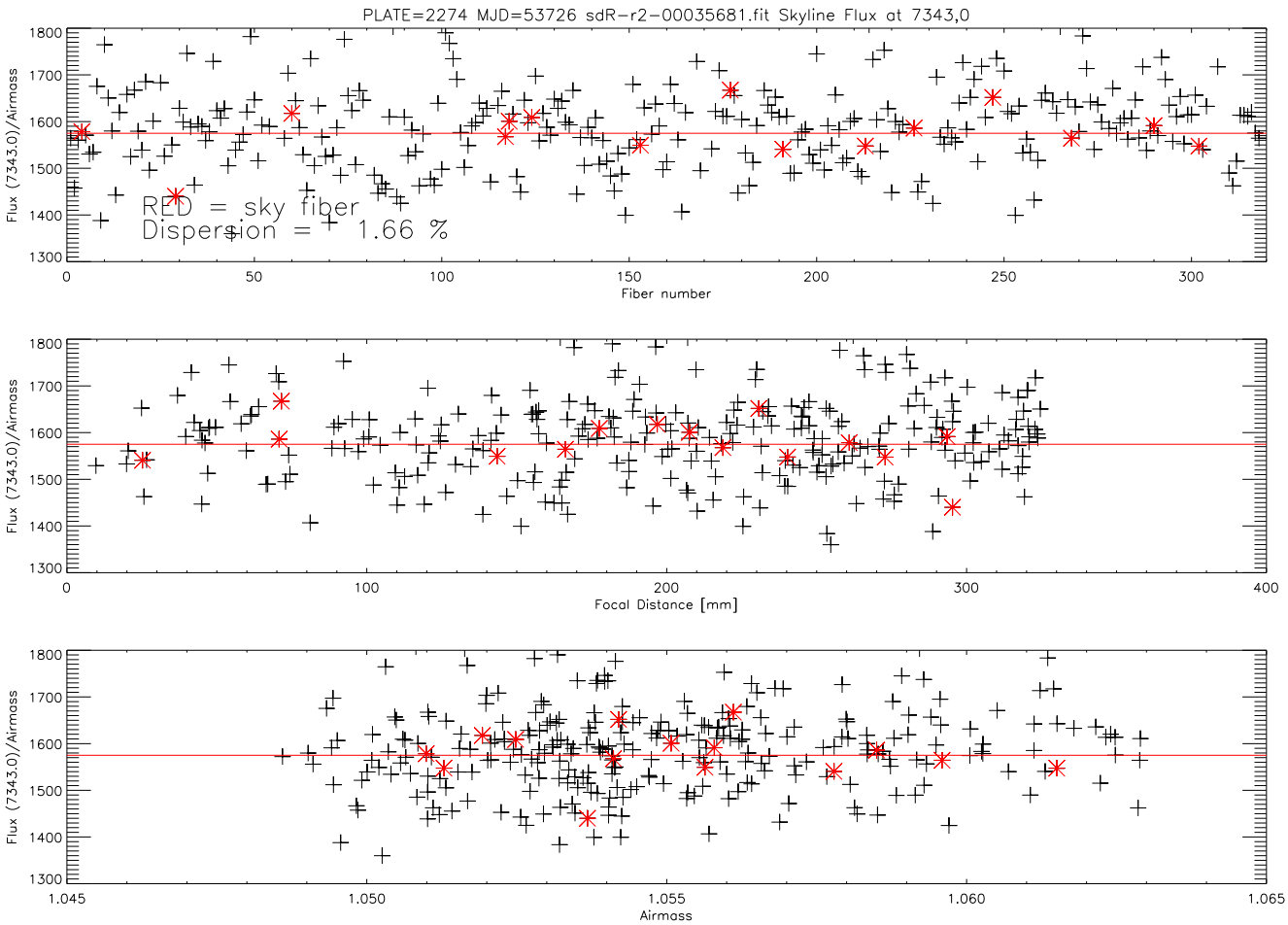

Number of sky fibers = 15
PLATE=2274 MJD=53726 sdR-r2-00035681.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

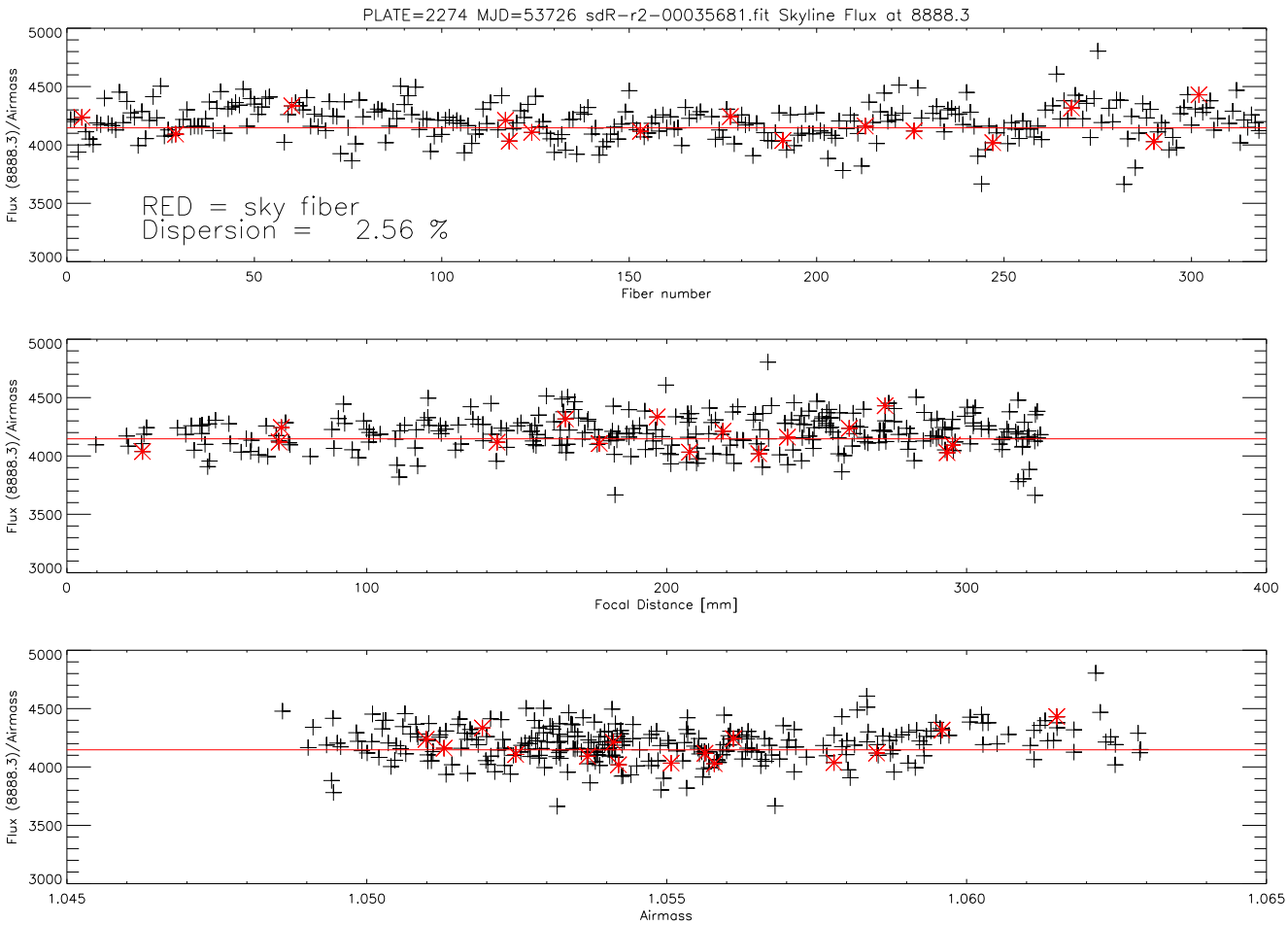

PLATE=2274 MJD=53726 sdR-r2-00035681.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number


PLATE=2274 MJD=53726 sdR-r2-00035681.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]


PLATE=2274 MJD=53726 sdR-r2-00035681.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]


Number of sky fibers = 15
PLATE=2274 MJD=53726 sdR-r2-00035681.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5


PLATE=2274 MJD=53726 sdR-r2-00035681.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.66 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass


PLATE=2274 MJD=53726 sdR-r2-00035681.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.56 %
Fiber number
Focal Distance [mm]
Airmass