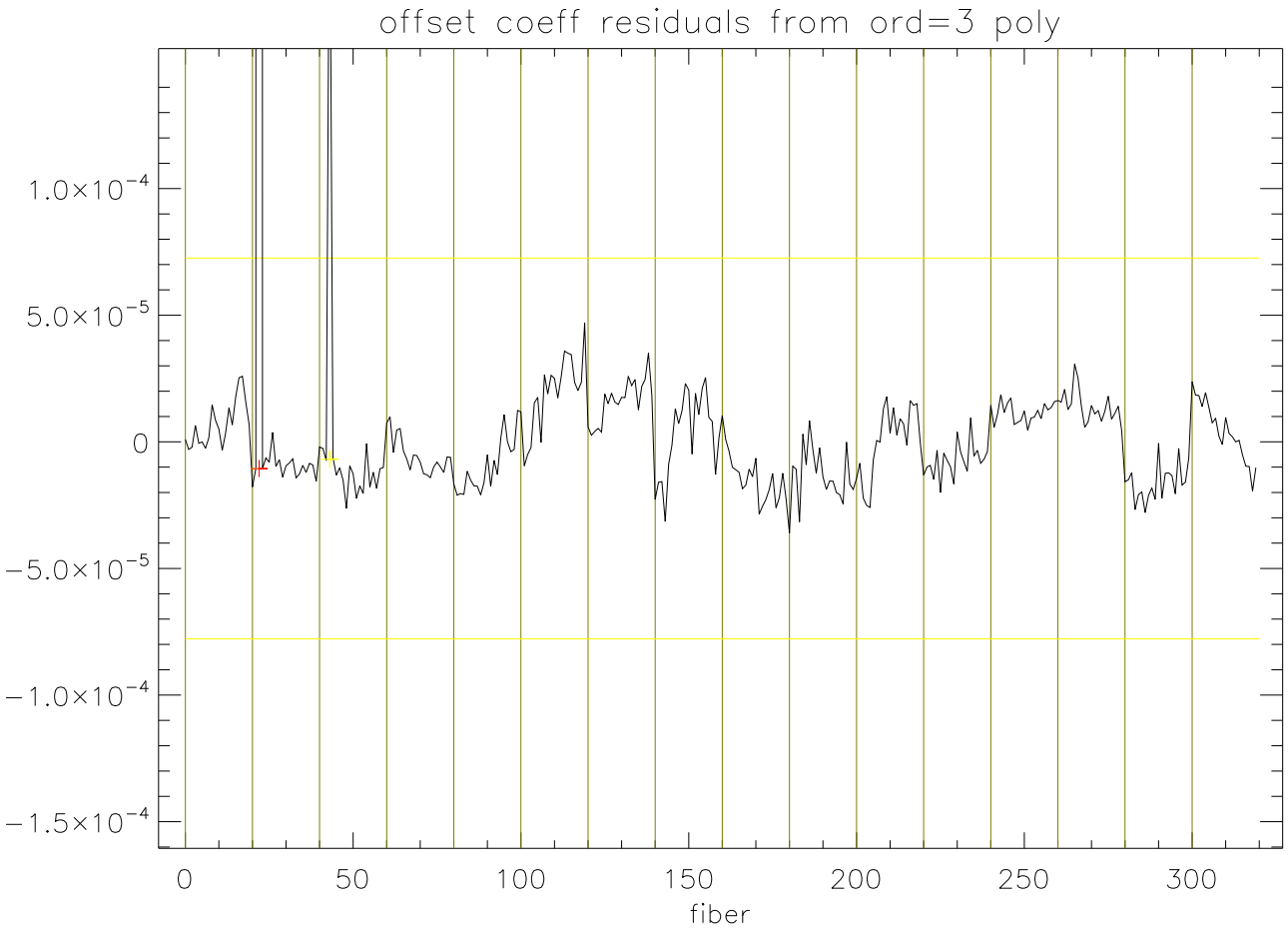
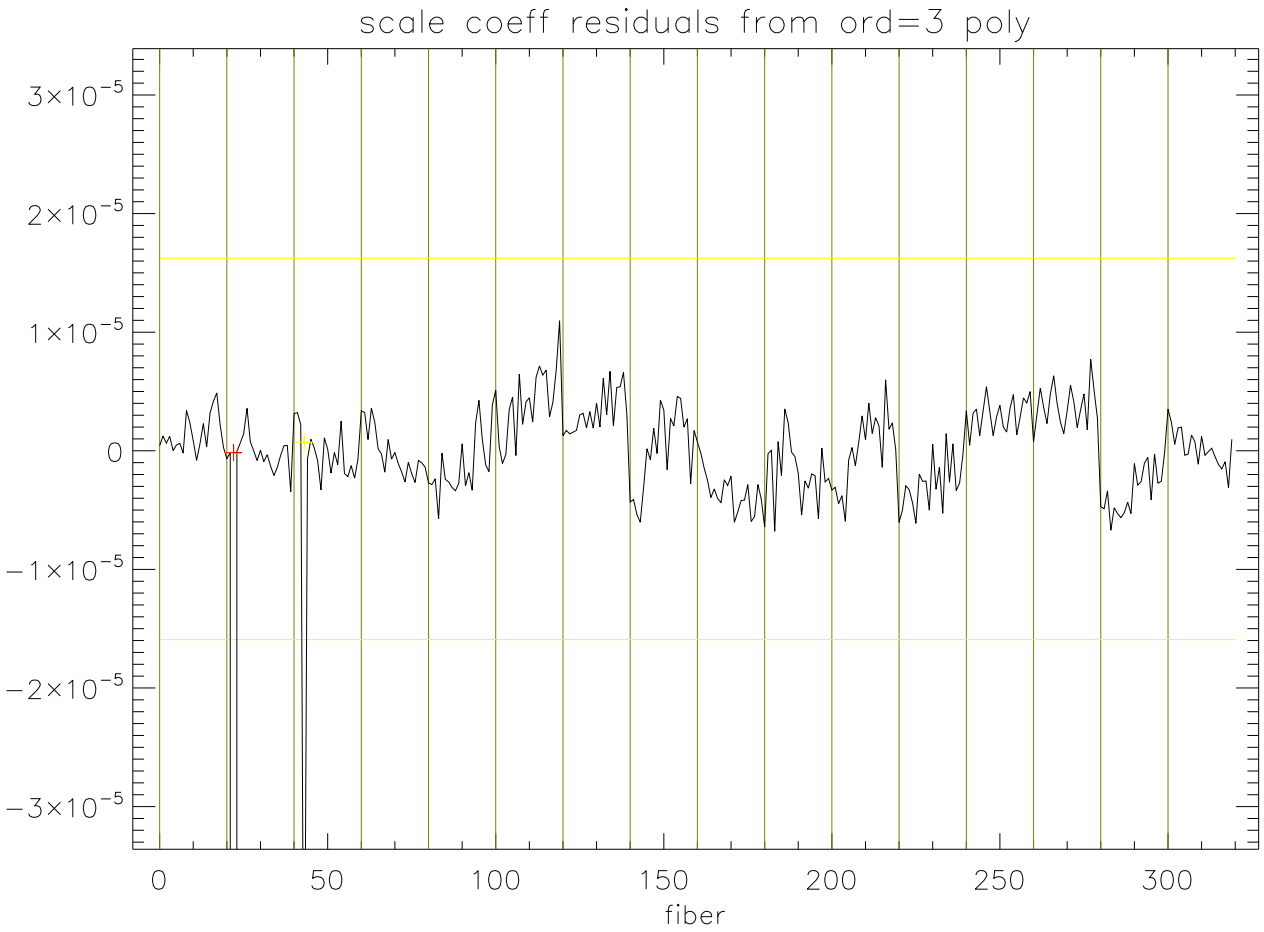
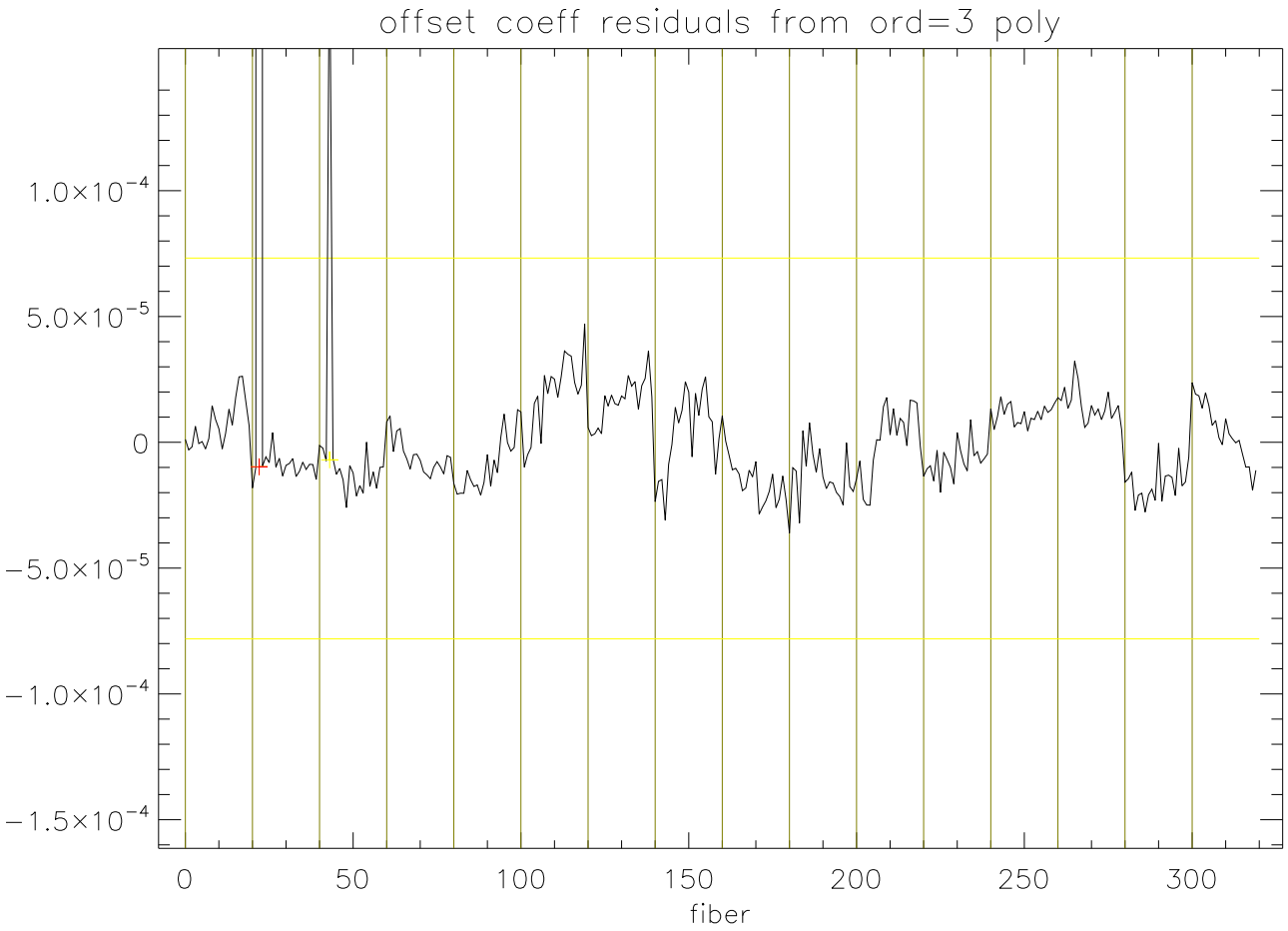
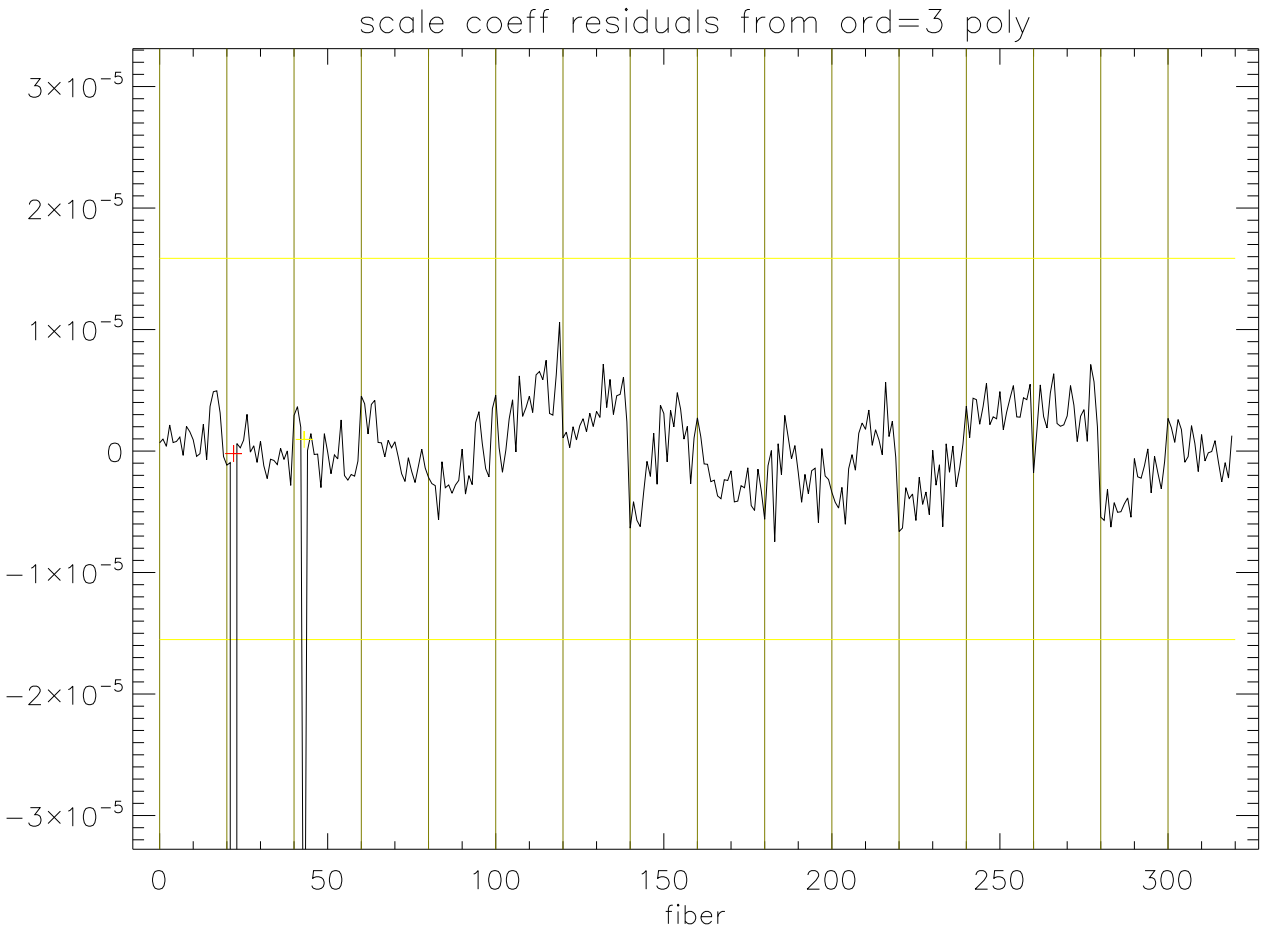
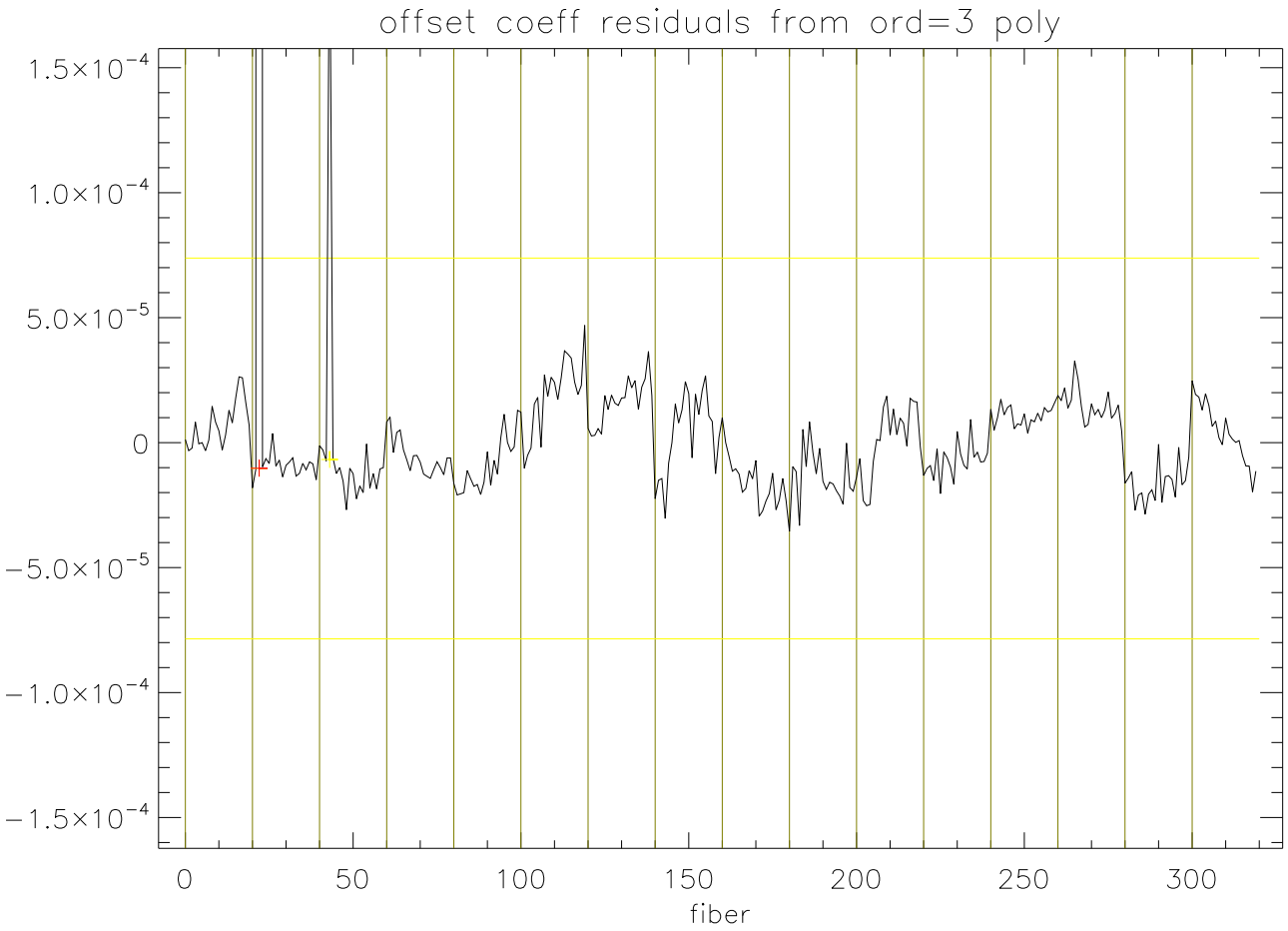
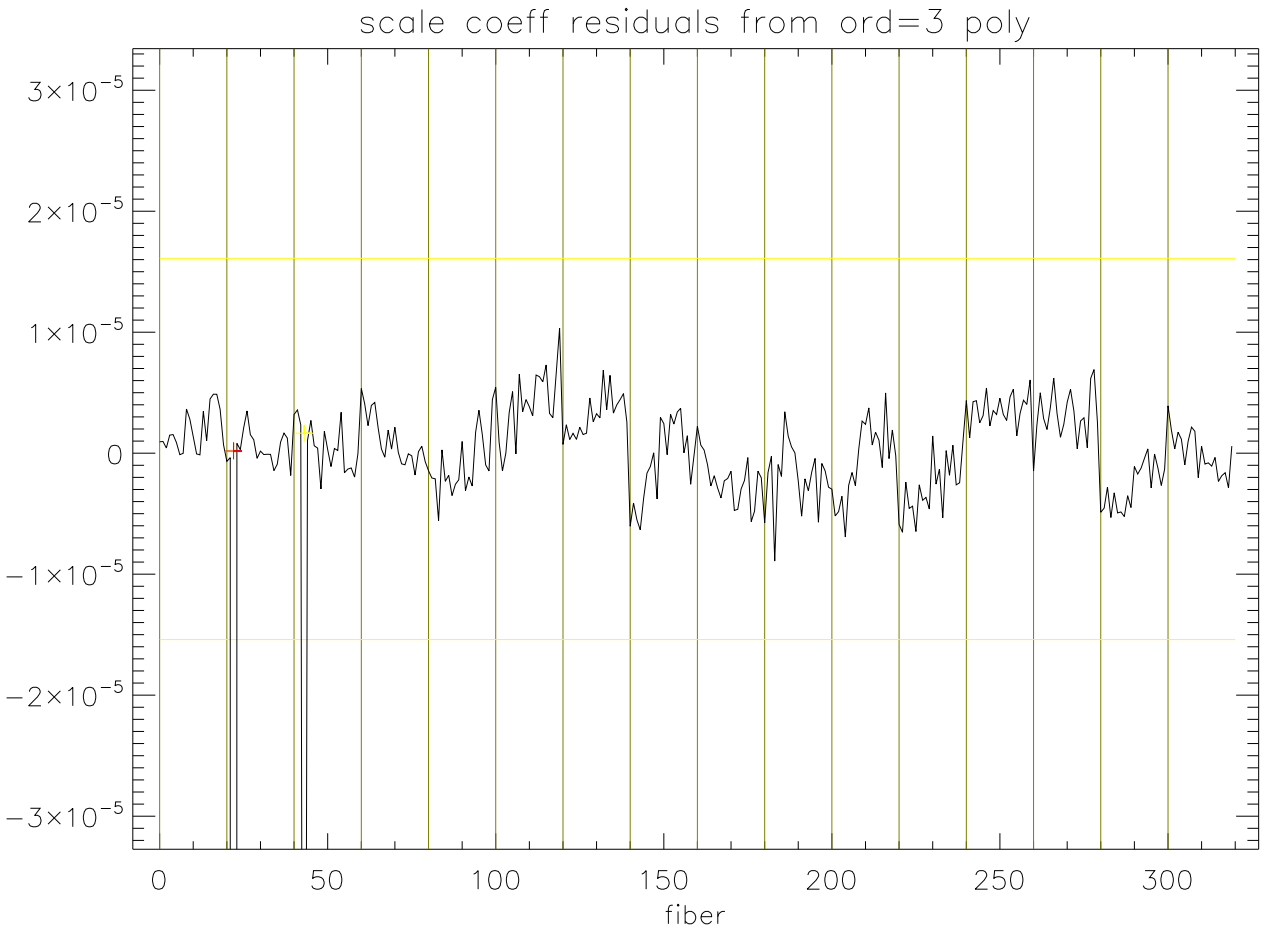

offset coeff residuals from ord=3 poly
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

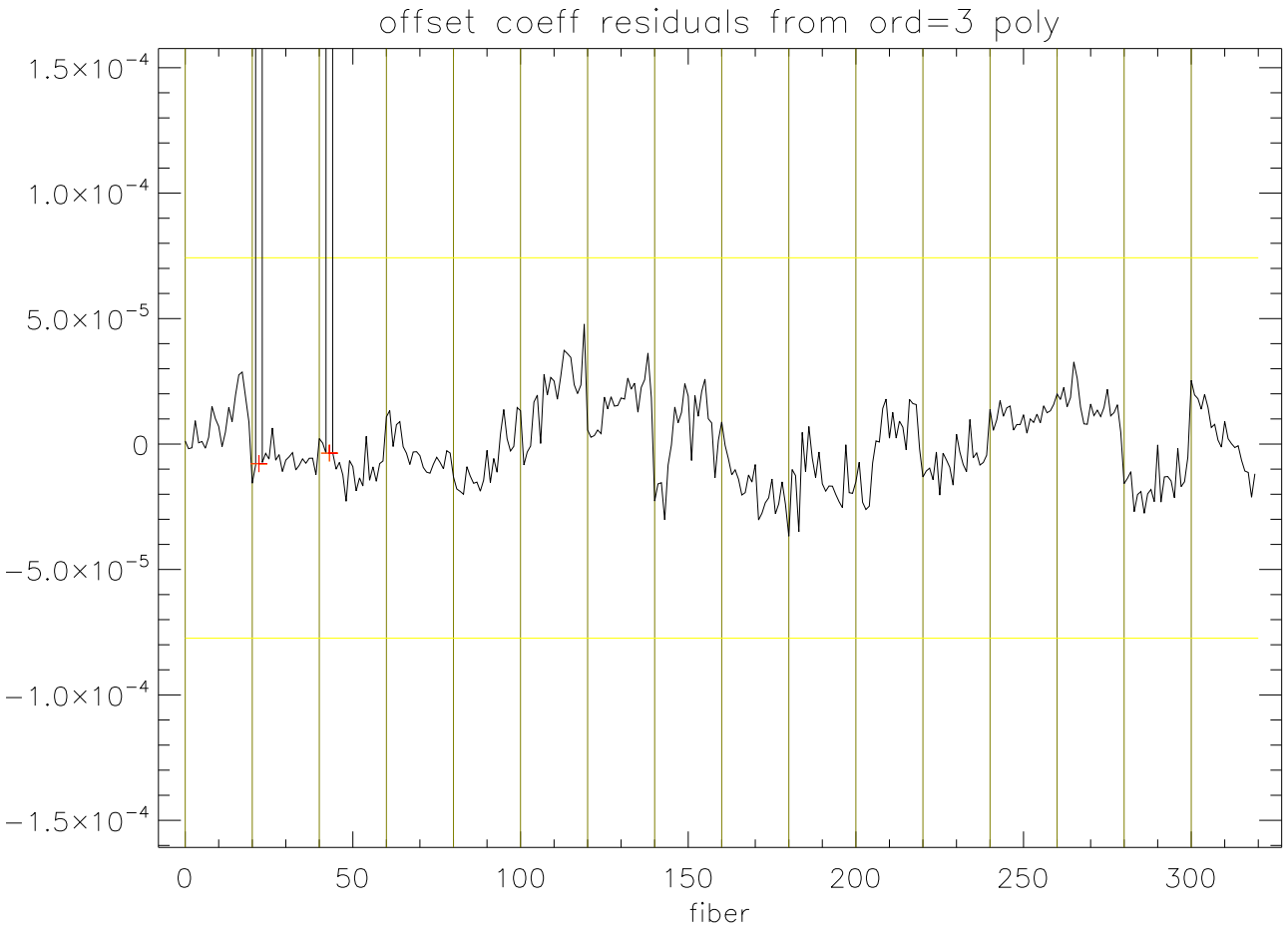

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

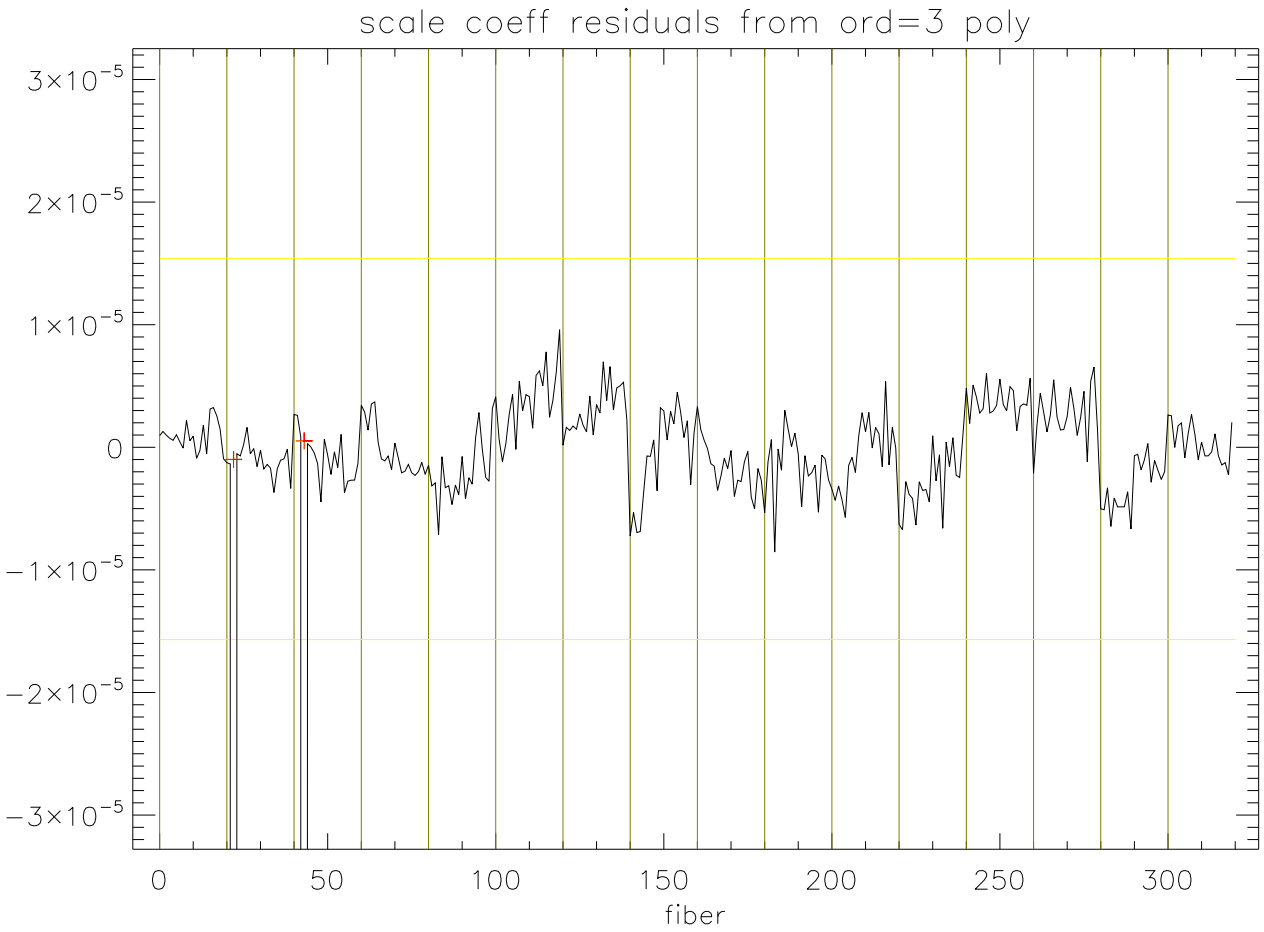

offset coeff residuals from ord=3 poly
1.0×10^-4
5.0×10^-5
0
−5.0×10^-5
−1.0×10^-4
−1.5×10^-4
0
50
100
150
200
250
300
fiber

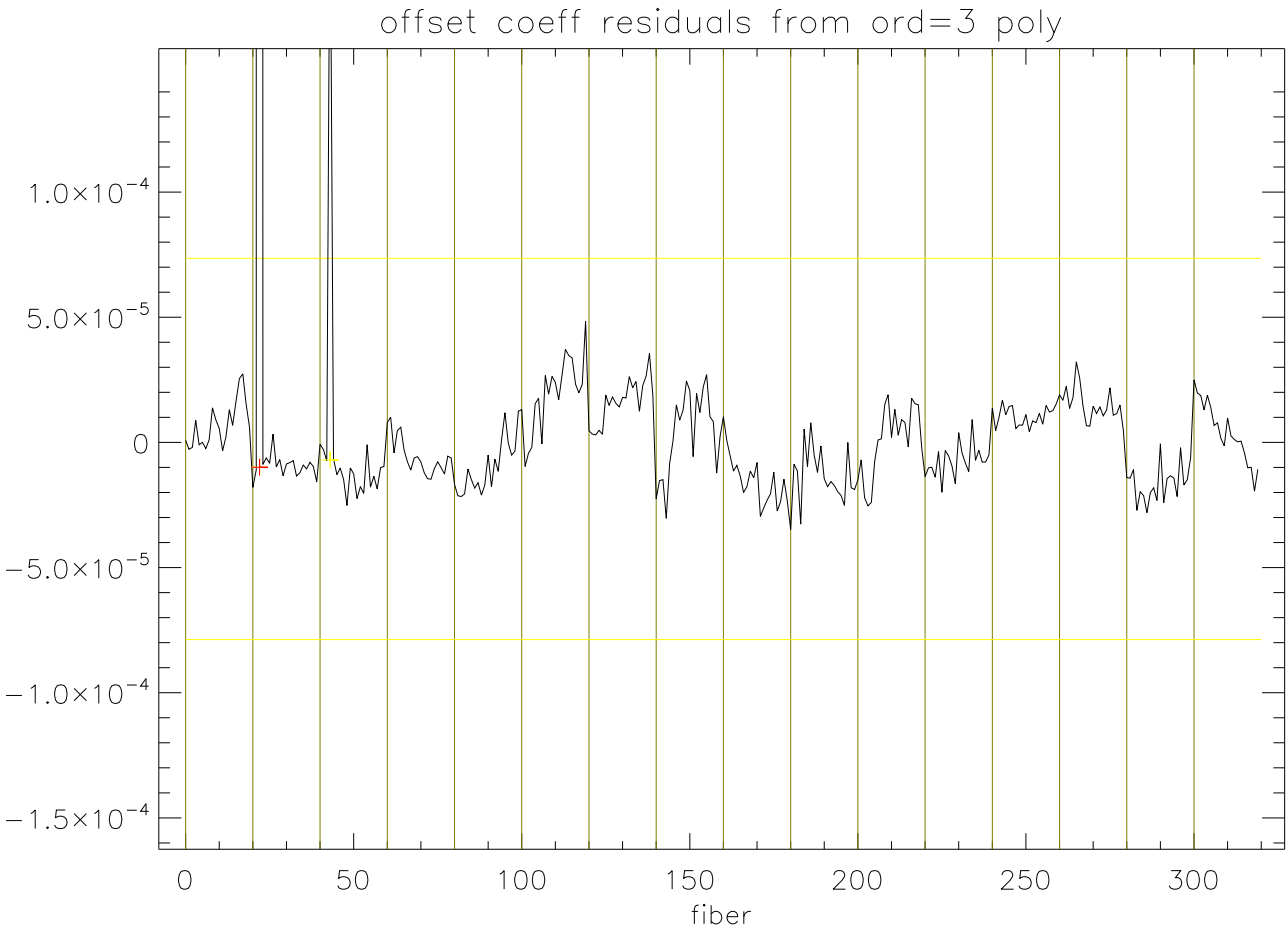

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

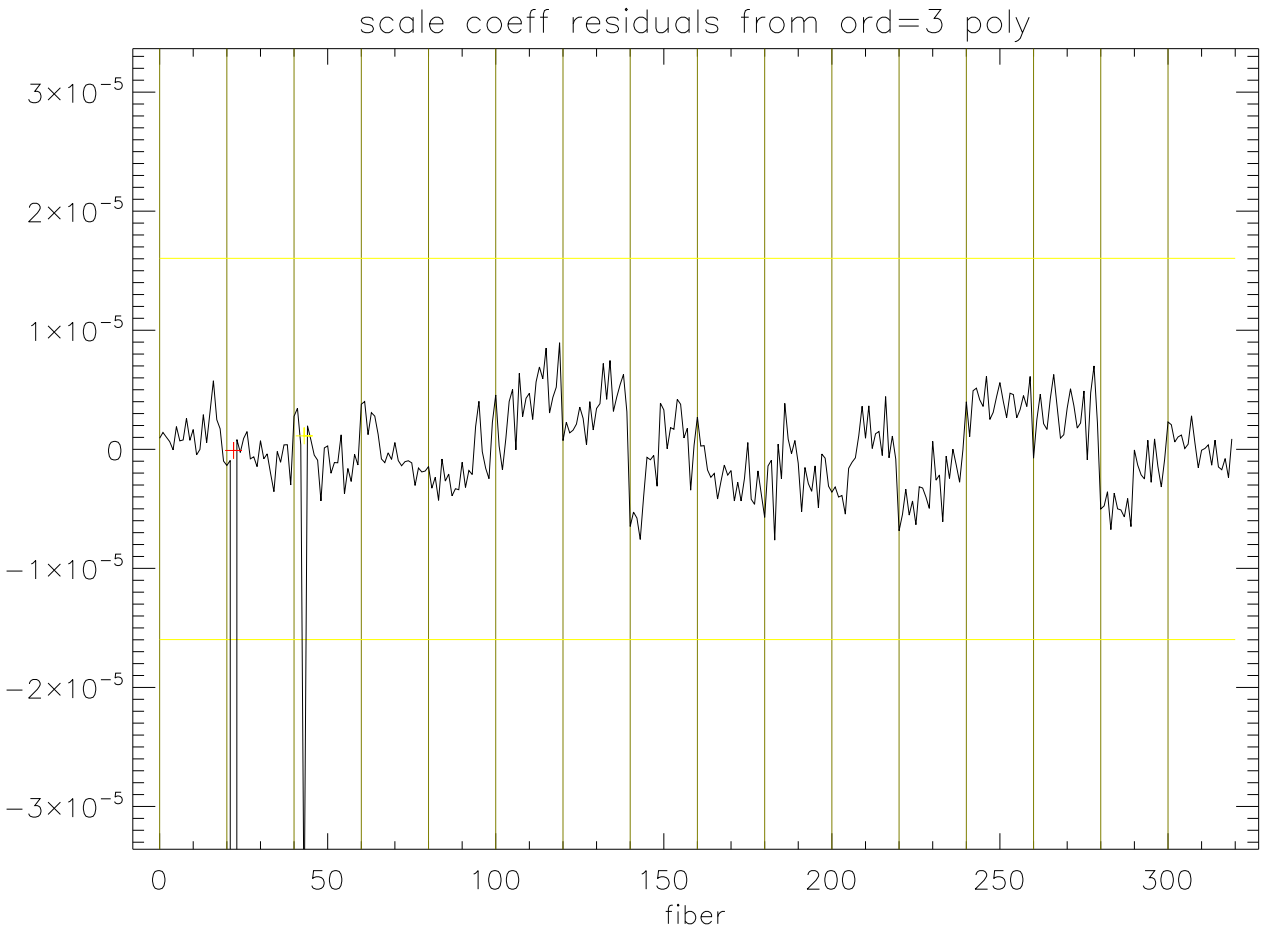

offset coeff residuals from ord=3 poly
1.5×10^-4
1.0×10^-4
5.0×10^-5
0
−5.0×10^-5
−1.0×10^-4
−1.5×10^-4
0
50
100
150
200
250
300
fiber

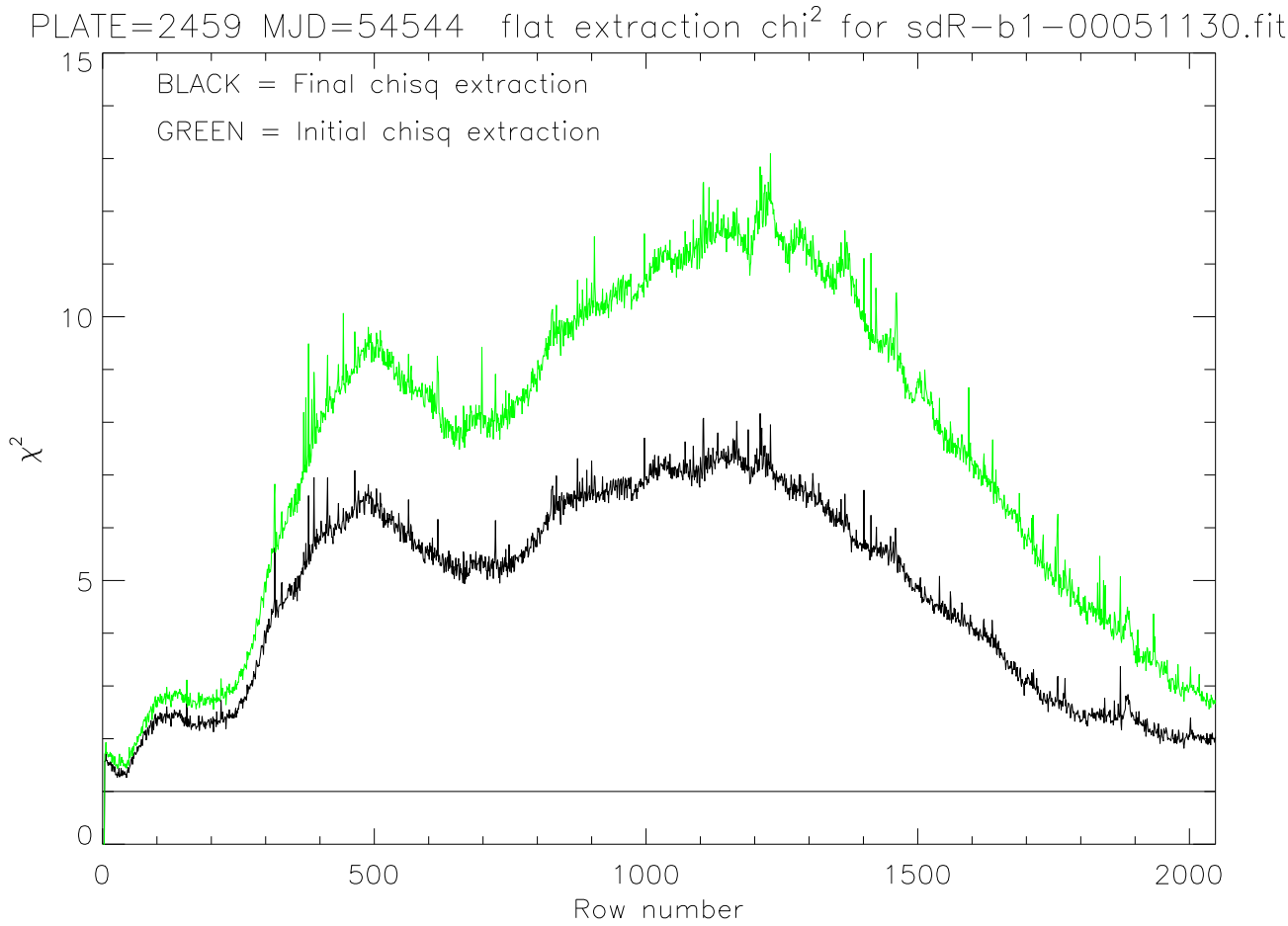

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

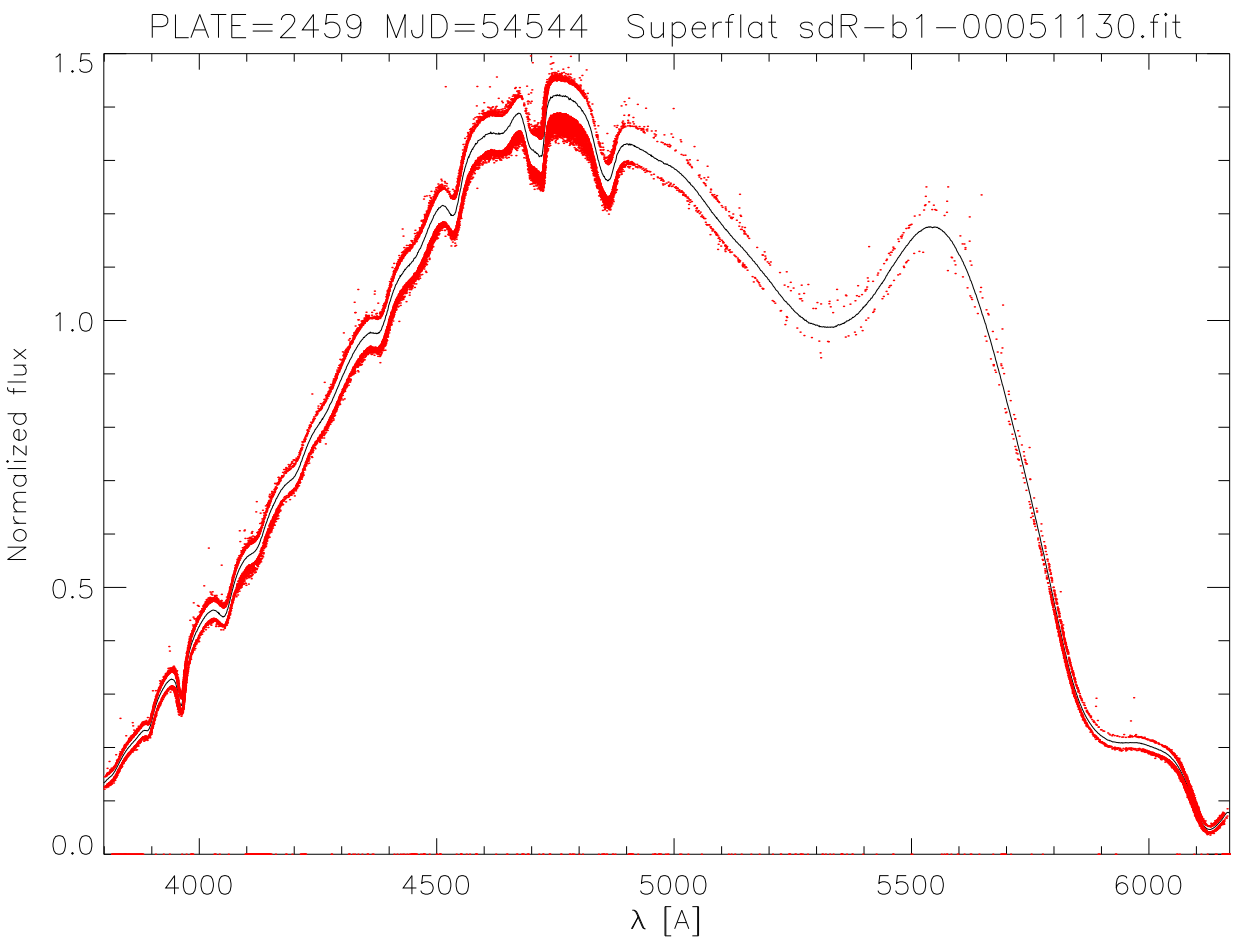

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

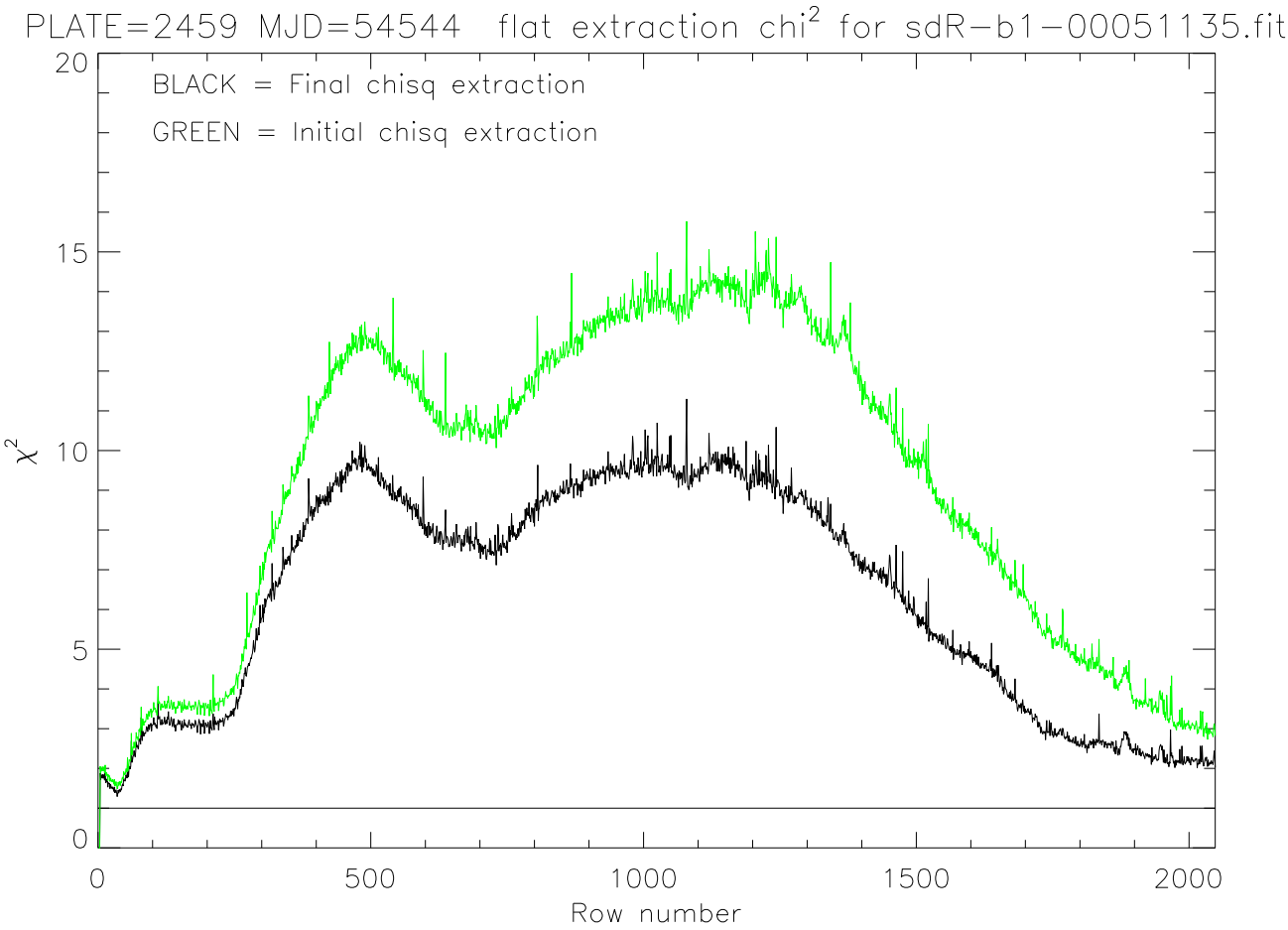

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

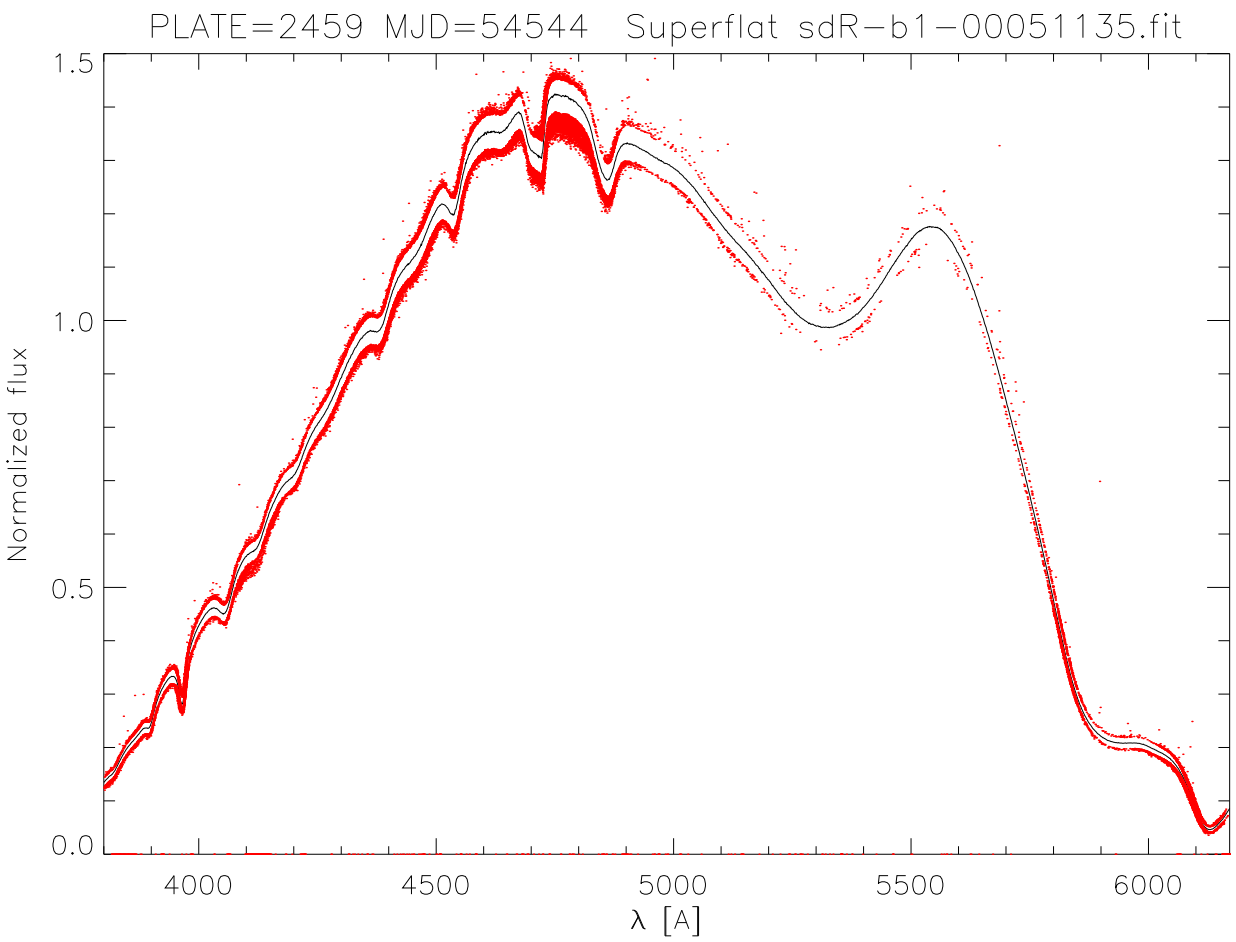

offset coeff residuals from ord=3 poly
1.0×10^-4
5.0×10^-5
0
−5.0×10^-5
−1.0×10^-4
−1.5×10^-4
0
50
100
150
200
250
300
fiber

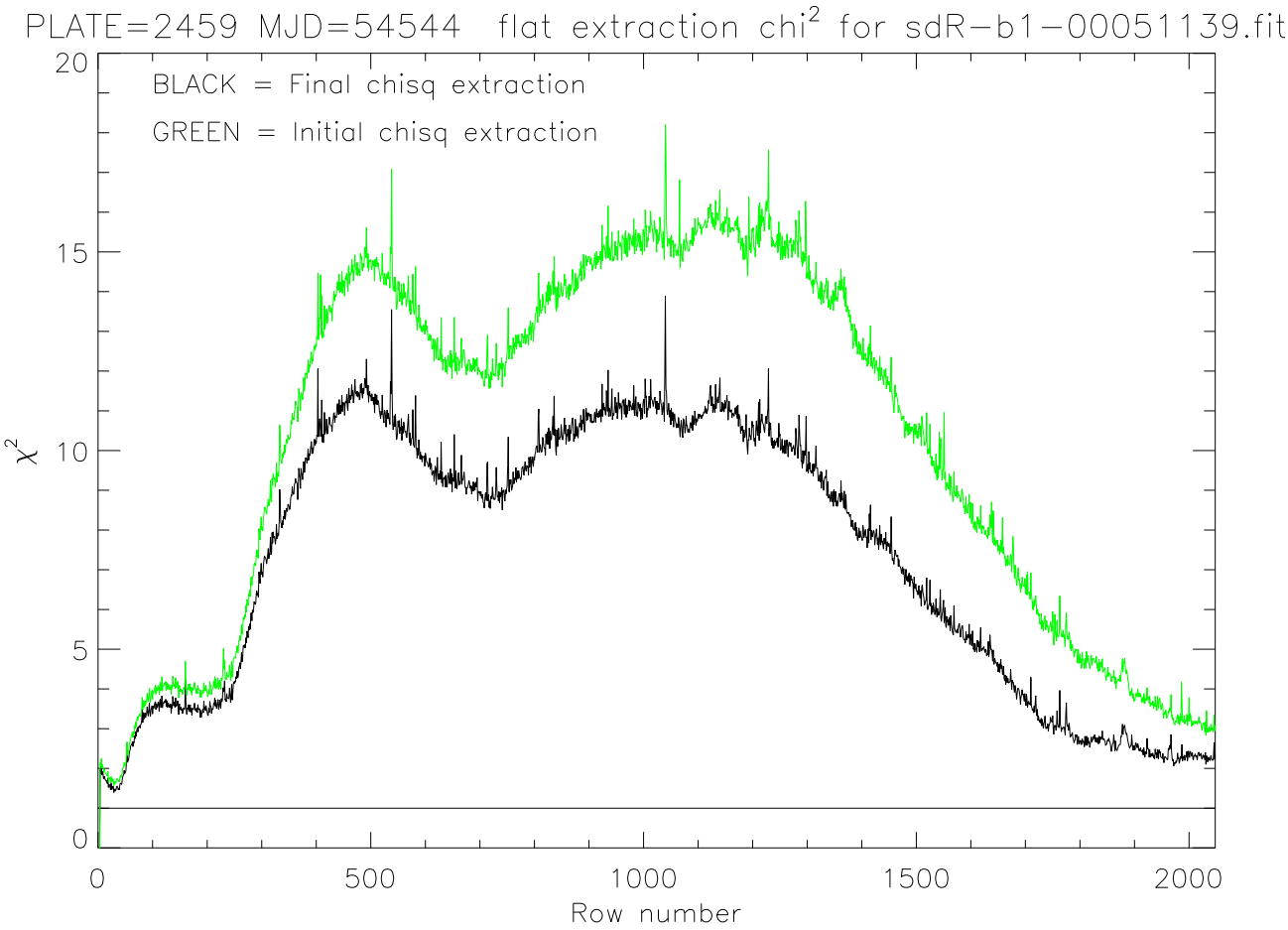

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

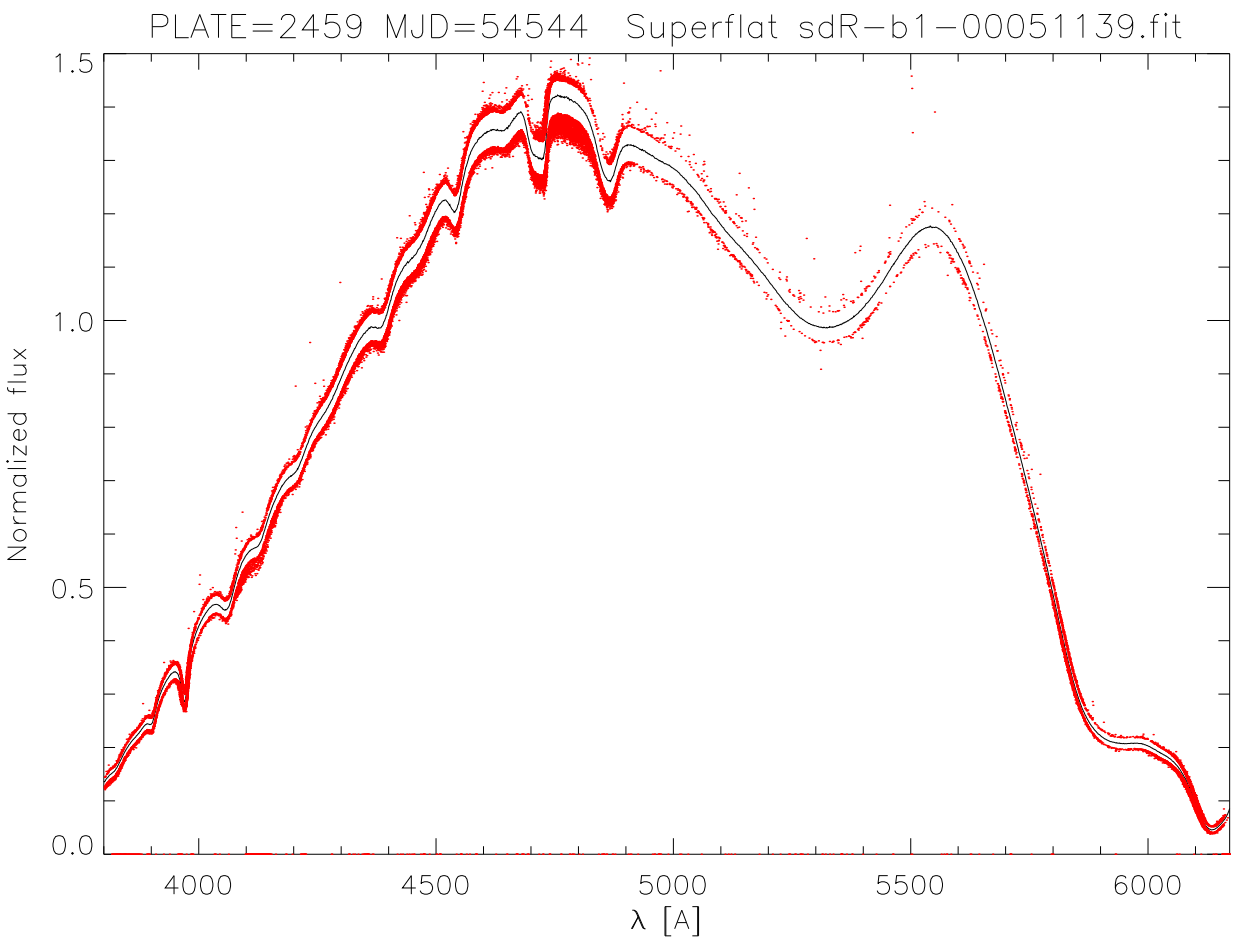

PLATE=2459 MJD=54544 flat extraction chi^2 for sdR−b1−00051130.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
5
10
15
0
500
1000
1500
2000

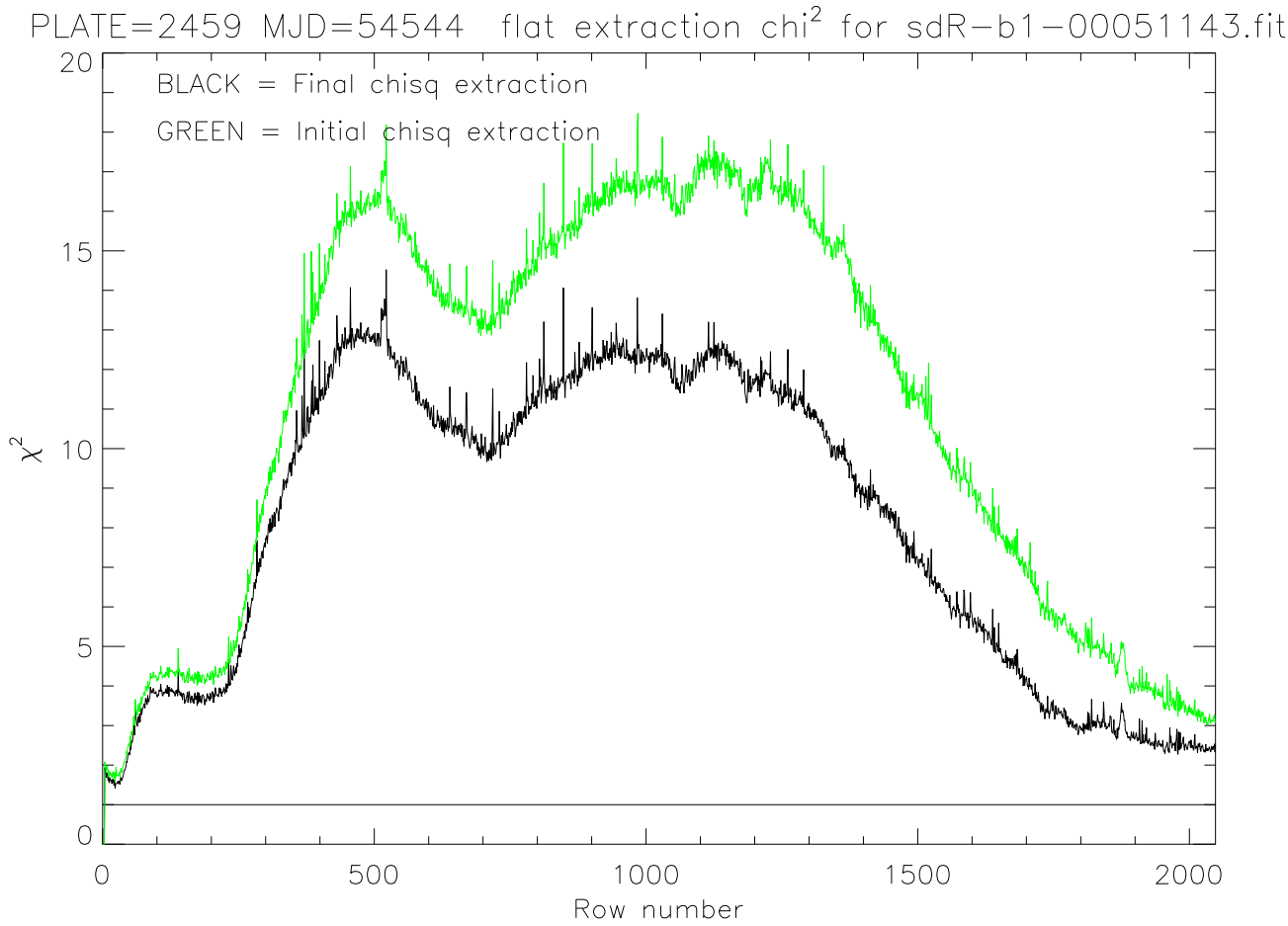

PLATE=2459 MJD=54544 Superflat sdR-b1-00051130.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

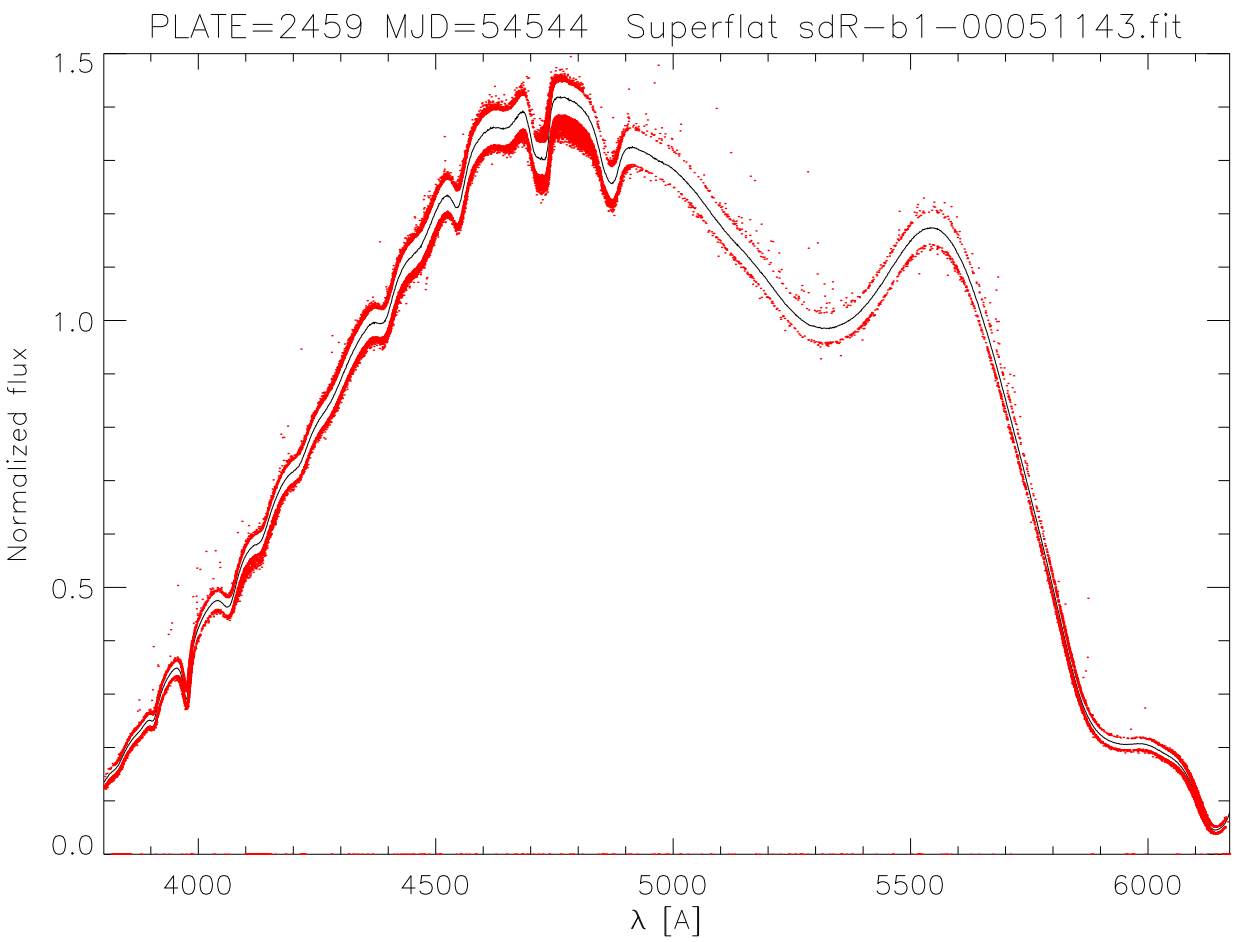

PLATE=2459 MJD=54544 flat extraction chi^2 for sdR-b1-00051135.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
5
10
15
20
0
500
1000
1500
2000

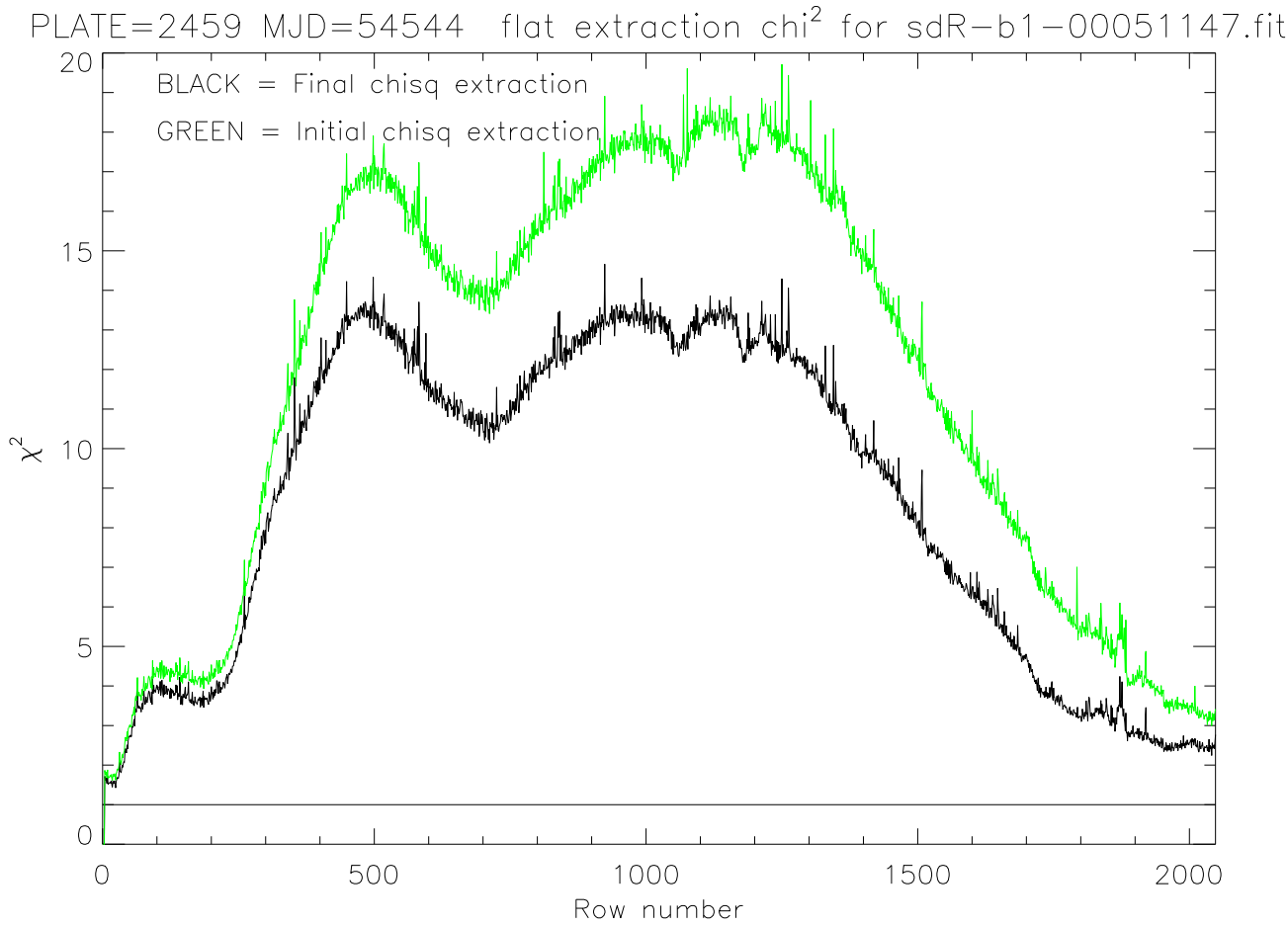

PLATE=2459 MJD=54544 Superflat sdR-b1-00051135.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

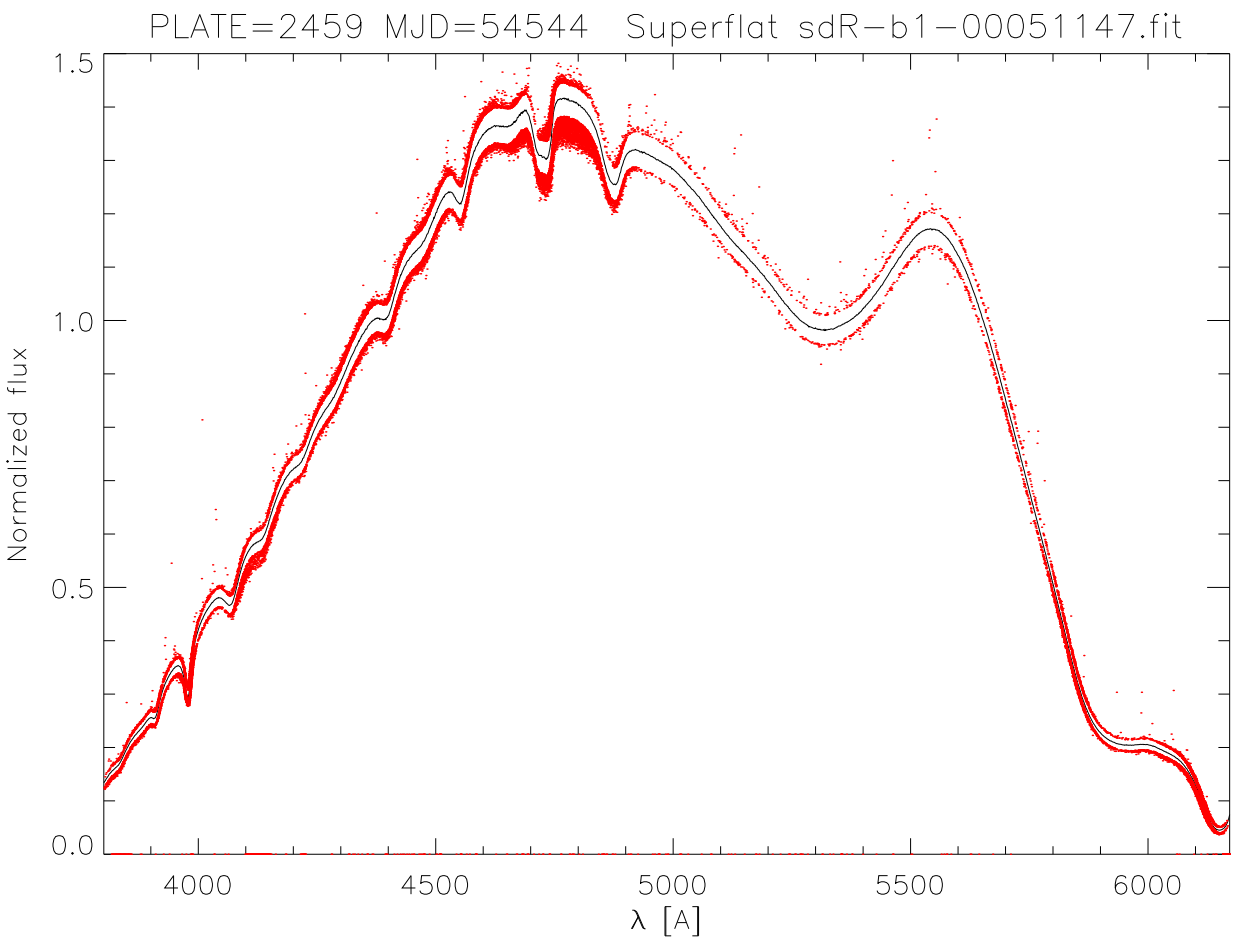

PLATE=2459 MJD=54544 flat extraction chi^2 for sdR-b1-00051139.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
5
10
15
20
0
500
1000
1500
2000

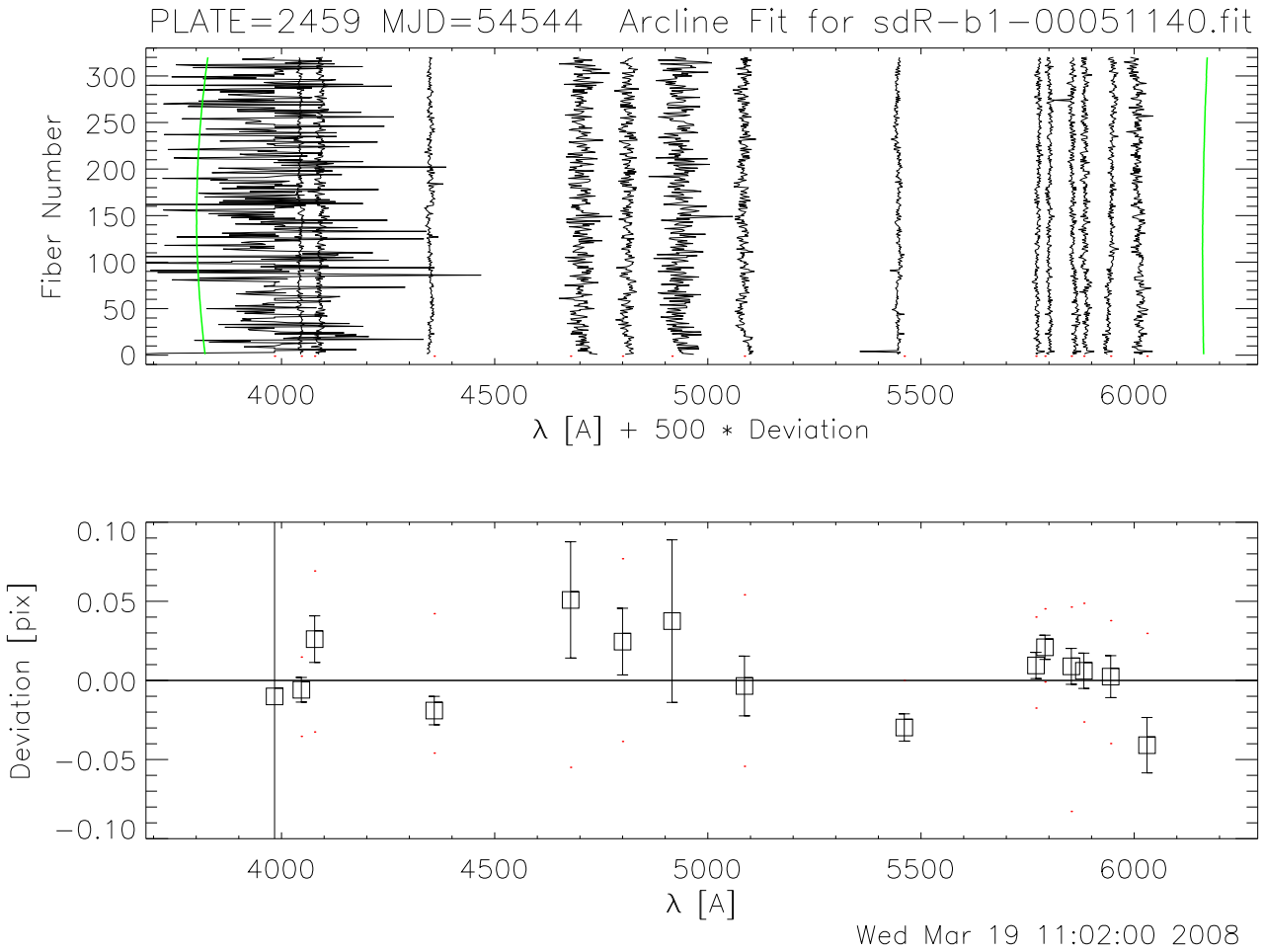

PLATE=2459 MJD=54544 Superflat sdR-b1-00051139.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

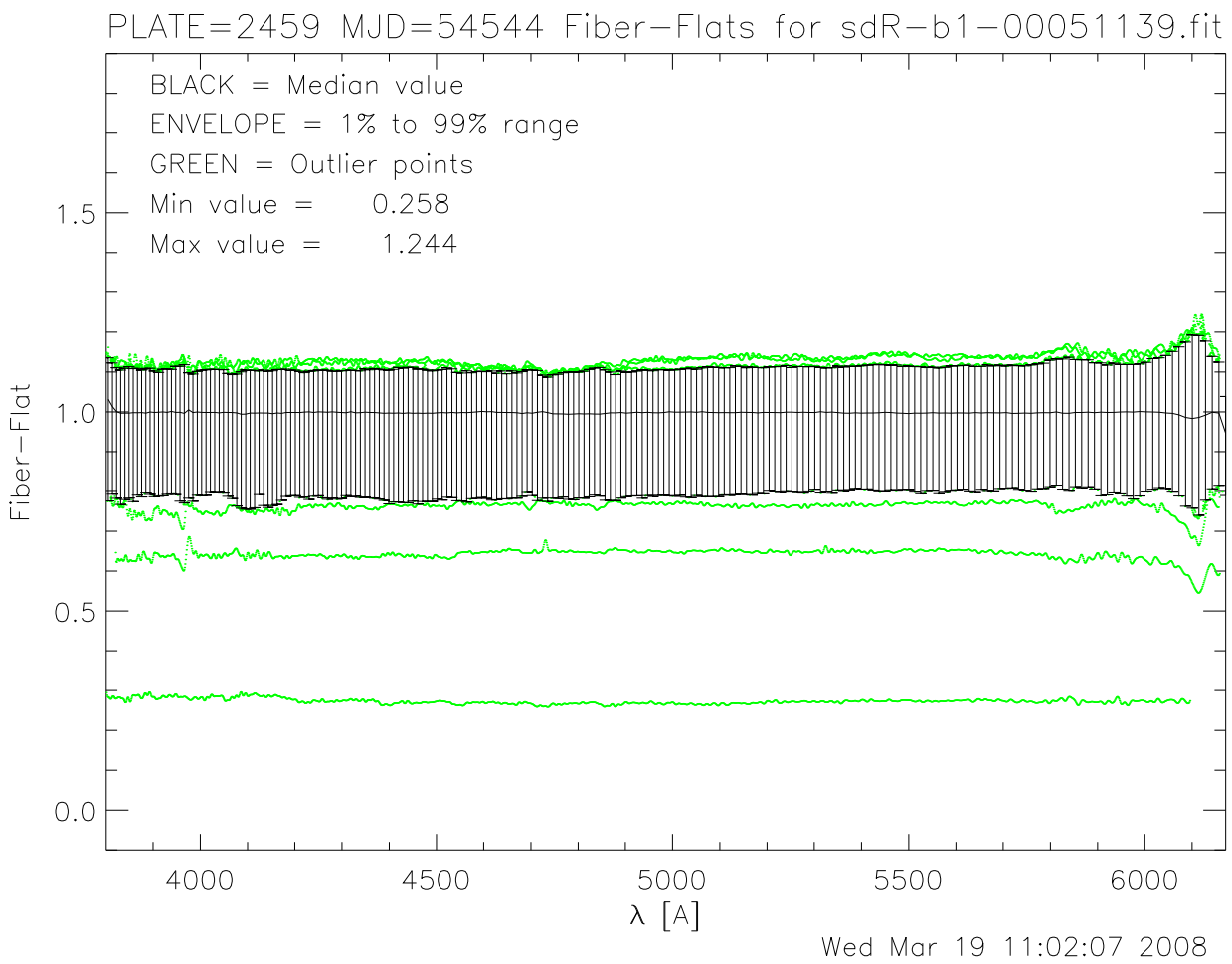

PLATE=2459 MJD=54544 flat extraction chi^2 for sdR−b1−00051143.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
5
10
15
20
0
500
1000
1500
2000

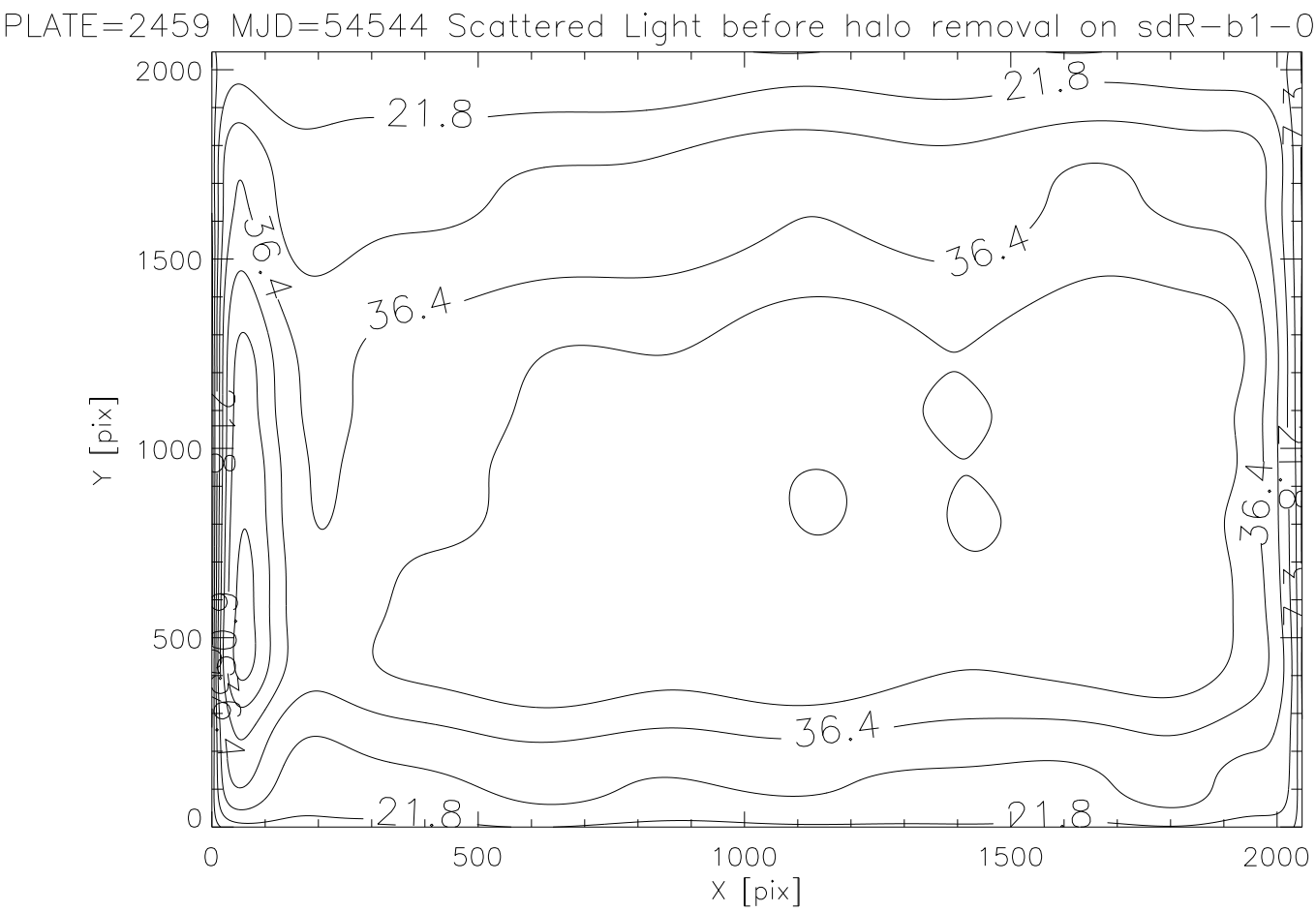

PLATE=2459 MJD=54544 Superflat sdR-b1-00051143.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

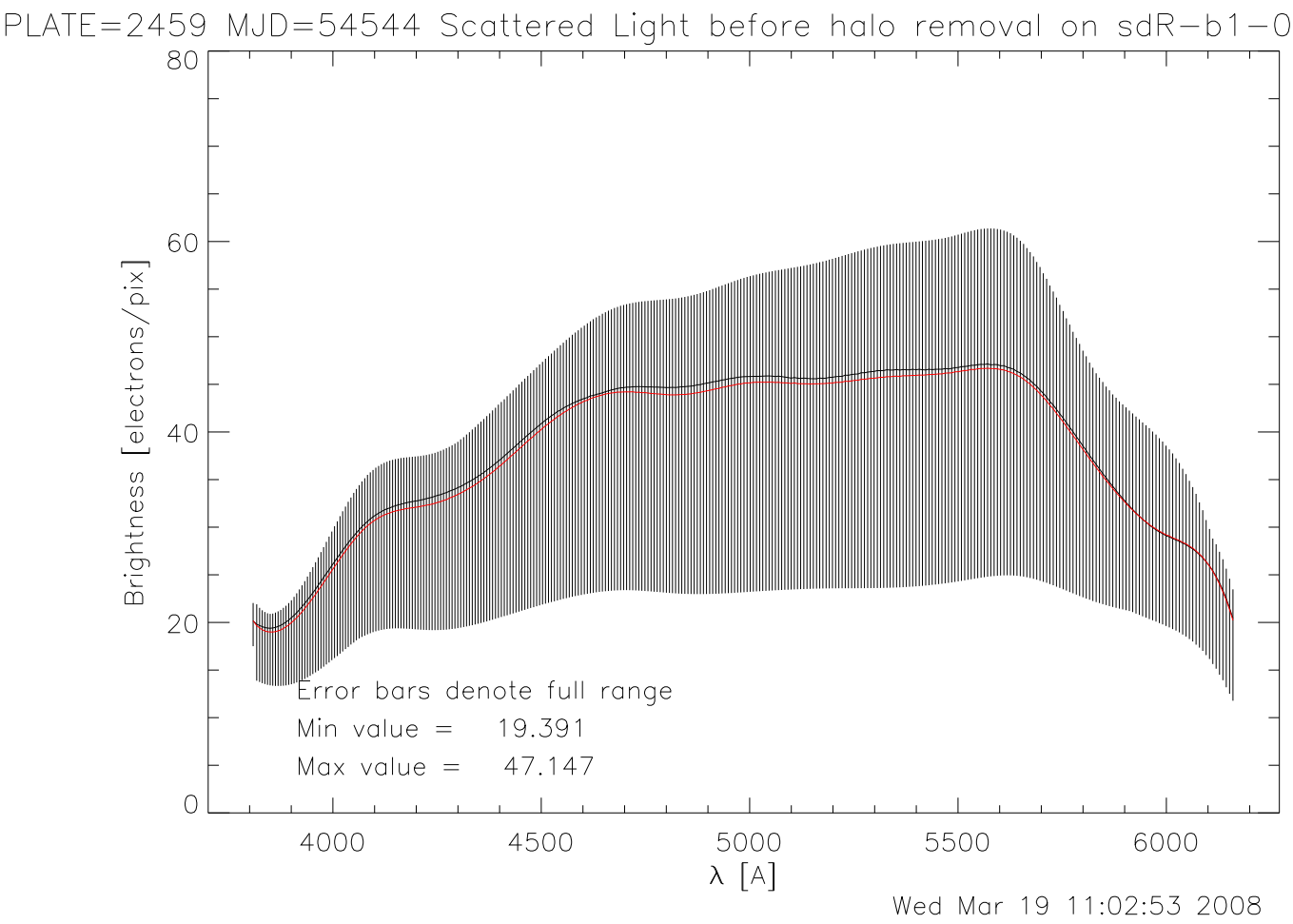

PLATE=2459 MJD=54544 flat extraction chi^2 for sdR−b1−00051147.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
5
10
15
20
0
500
1000
1500
2000
Row number

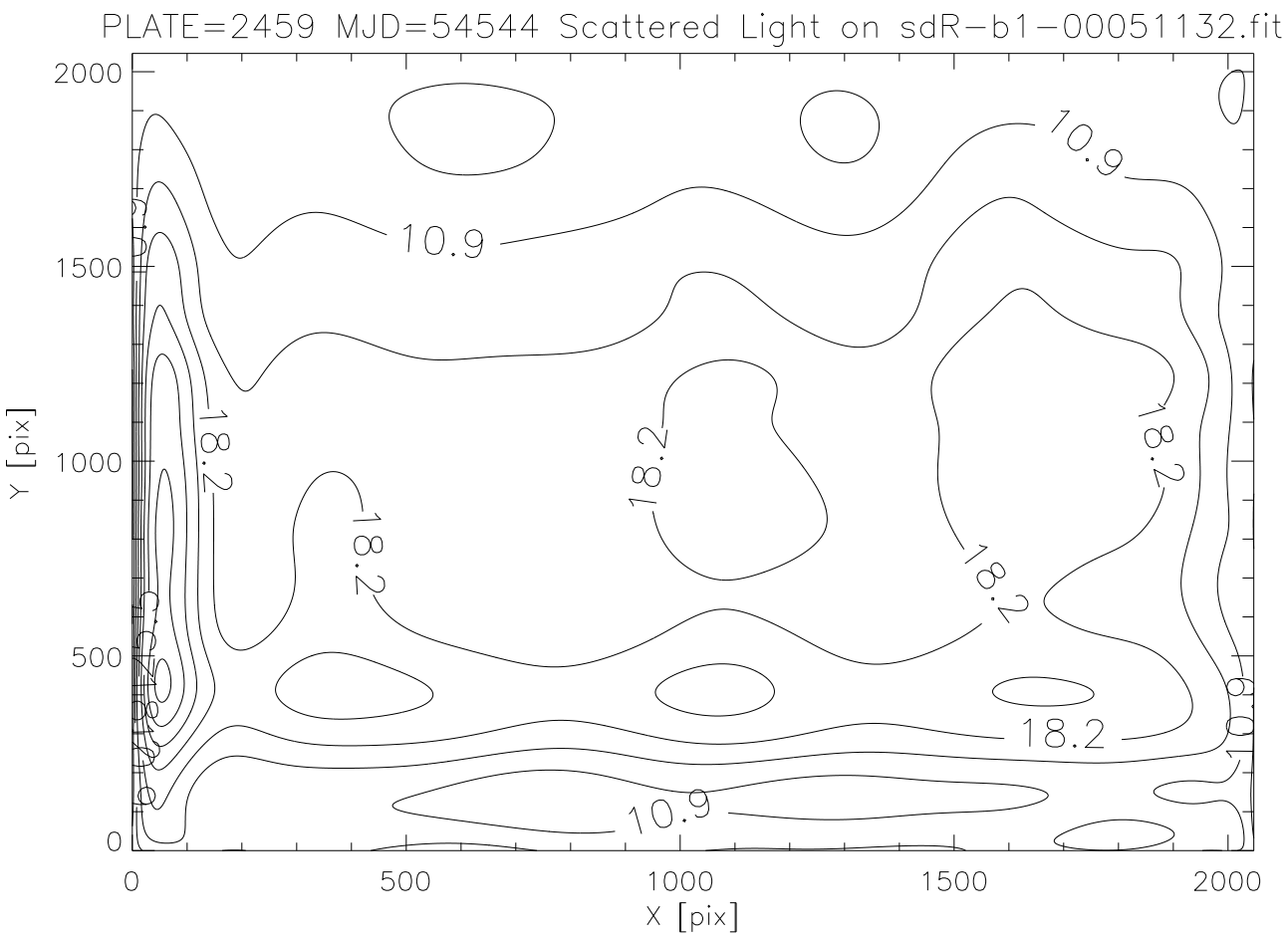

PLATE=2459 MJD=54544 Superflat sdR-b1-00051147.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

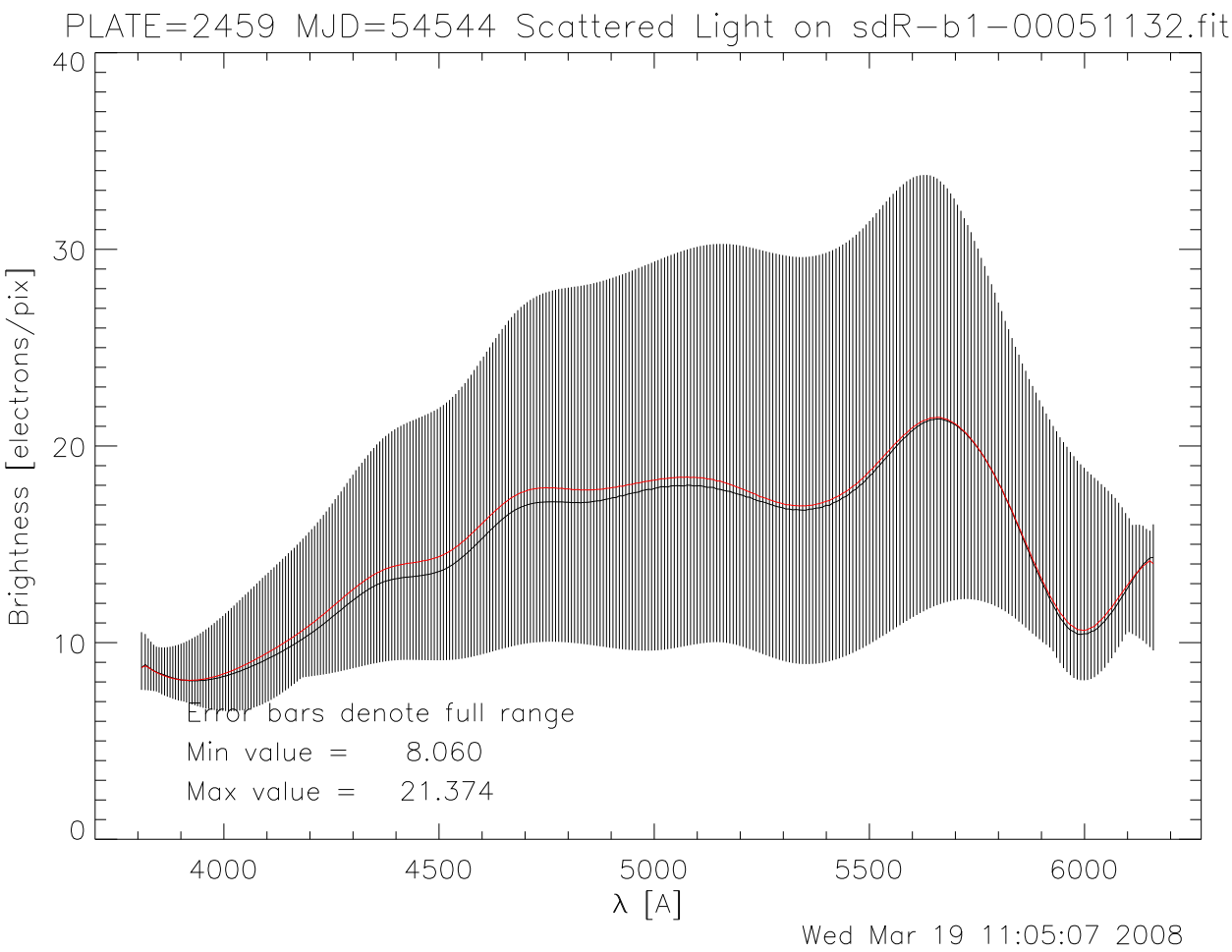

PLATE=2459 MJD=54544 Arcline Fit for sdR-b1-00051140.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Wed Mar 19 11:02:00 2008

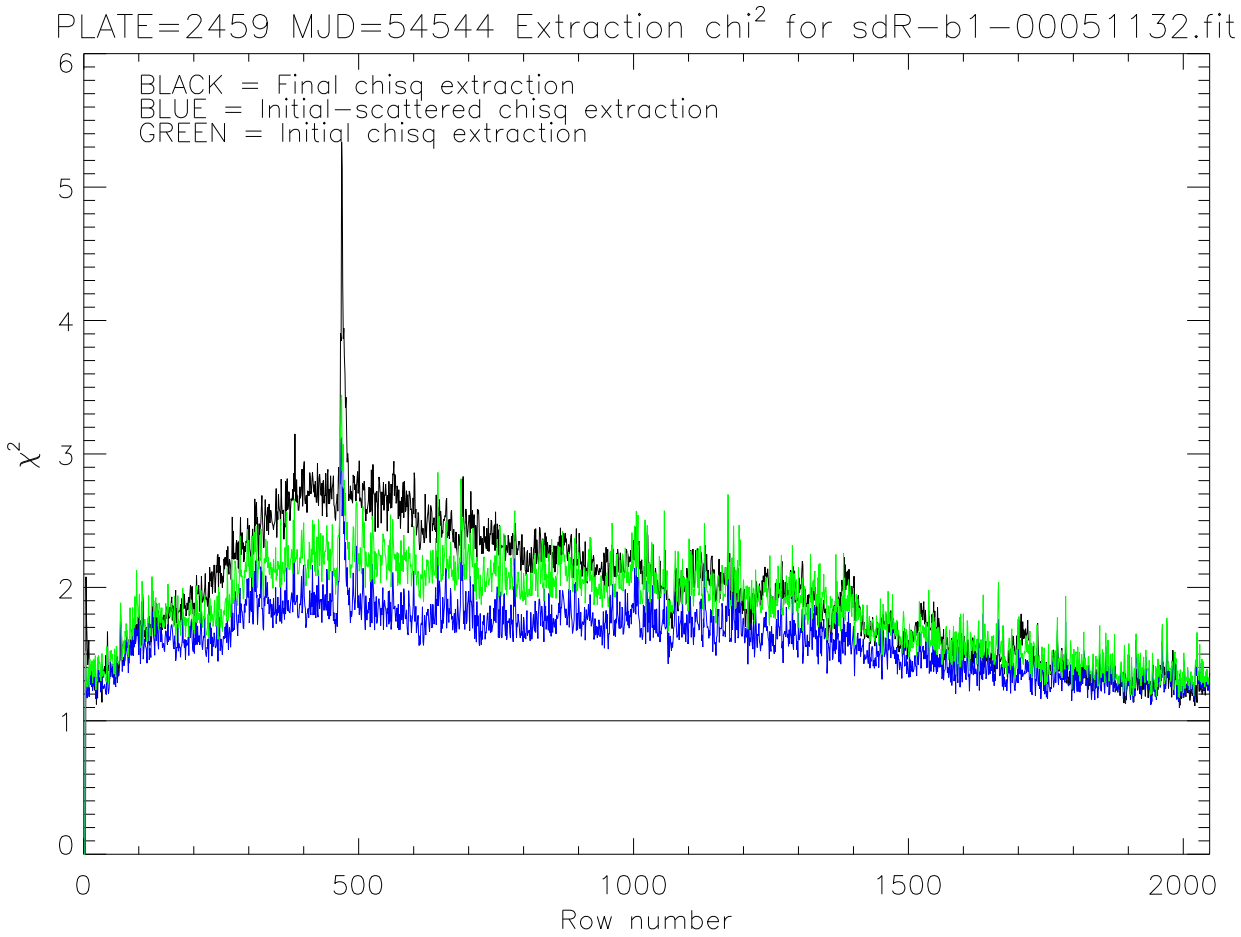

PLATE=2459 MJD=54544 Fiber−Flats for sdR−b1−00051139.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.258
Max value = 1.244
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 19 11:02:07 2008

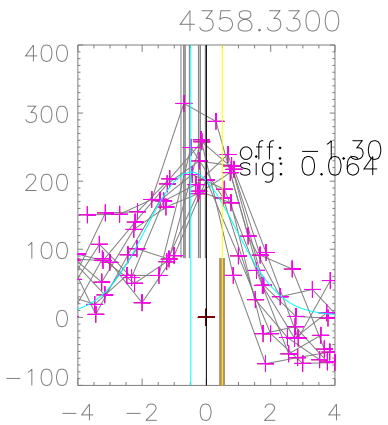

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR−b1−00051132.f
21.8
36.4
Y [pix]
X [pix]
0
500
1000
1500
2000

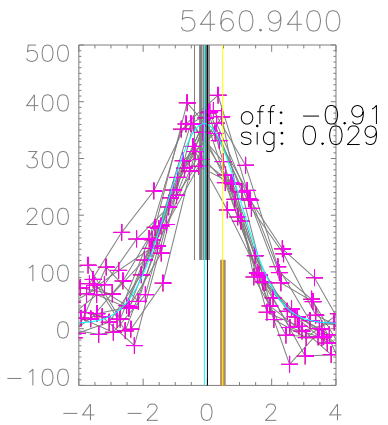

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-b1-00051132.f
Brightness [electrons/pix]
80
60
40
20
0
Error bars denote full range
Min value = 19.391
Max value = 47.147
4000
4500
5000
5500
6000
λ [A]
Wed Mar 19 11:02:53 2008

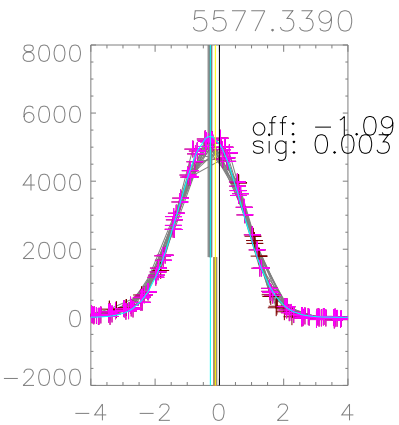

PLATE=2459 MJD=54544 Scattered Light on sdR-b1-00051132.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
10.9
18.2

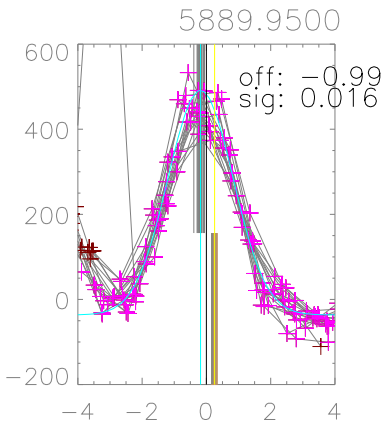

PLATE=2459 MJD=54544 Scattered Light on sdR-b1-00051132.fit
Brightness [electrons/pix]
40
30
20
10
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 8.060
Max value = 21.374
Wed Mar 19 11:05:07 2008

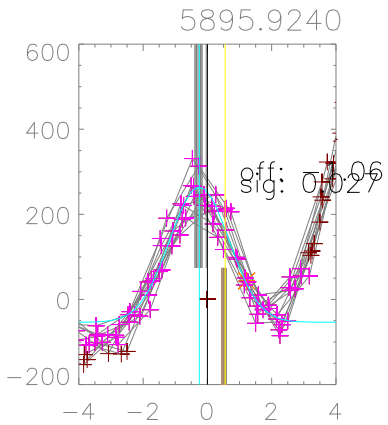

PLATE=2459 MJD=54544 Extraction chi^2 for sdR−b1−00051132.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
6
0
500
1000
1500
2000

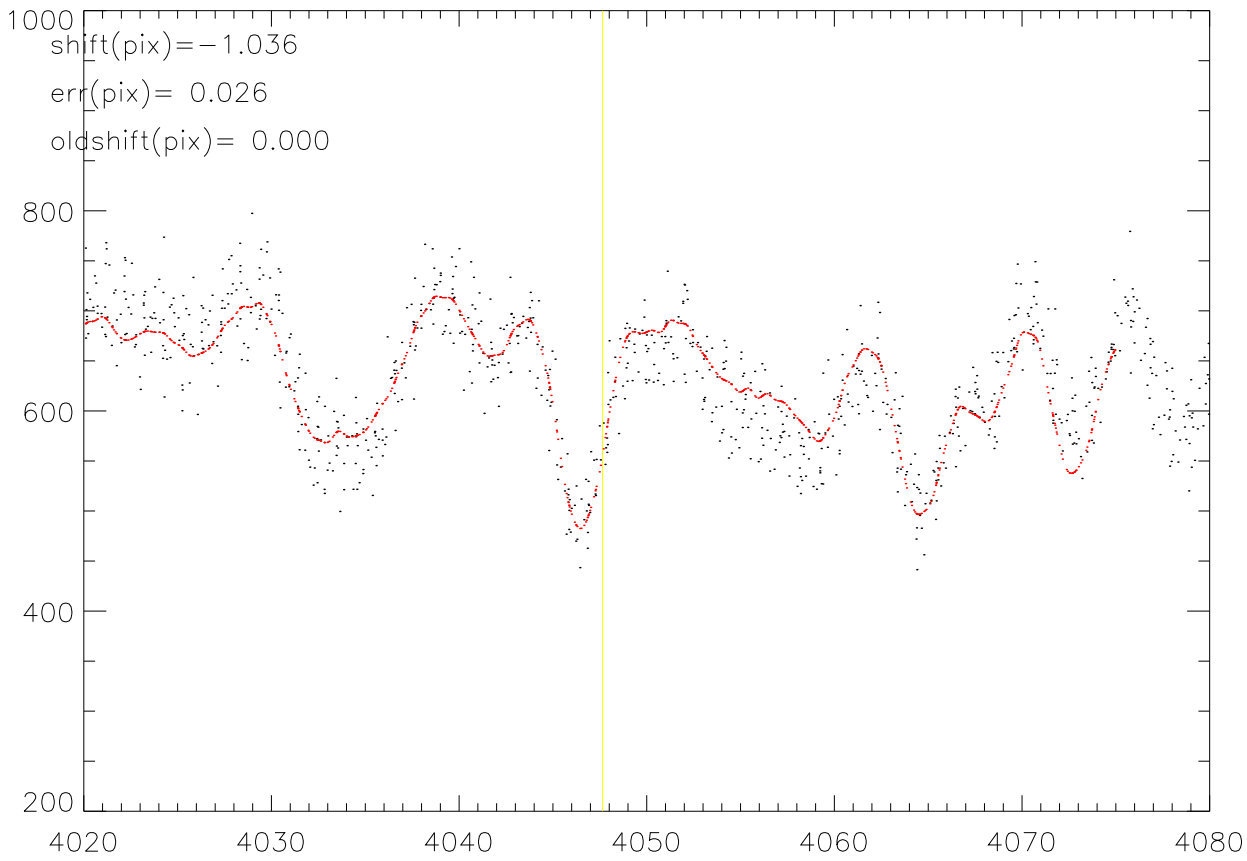

4358.3300
off: −1.30
sig: 0.064

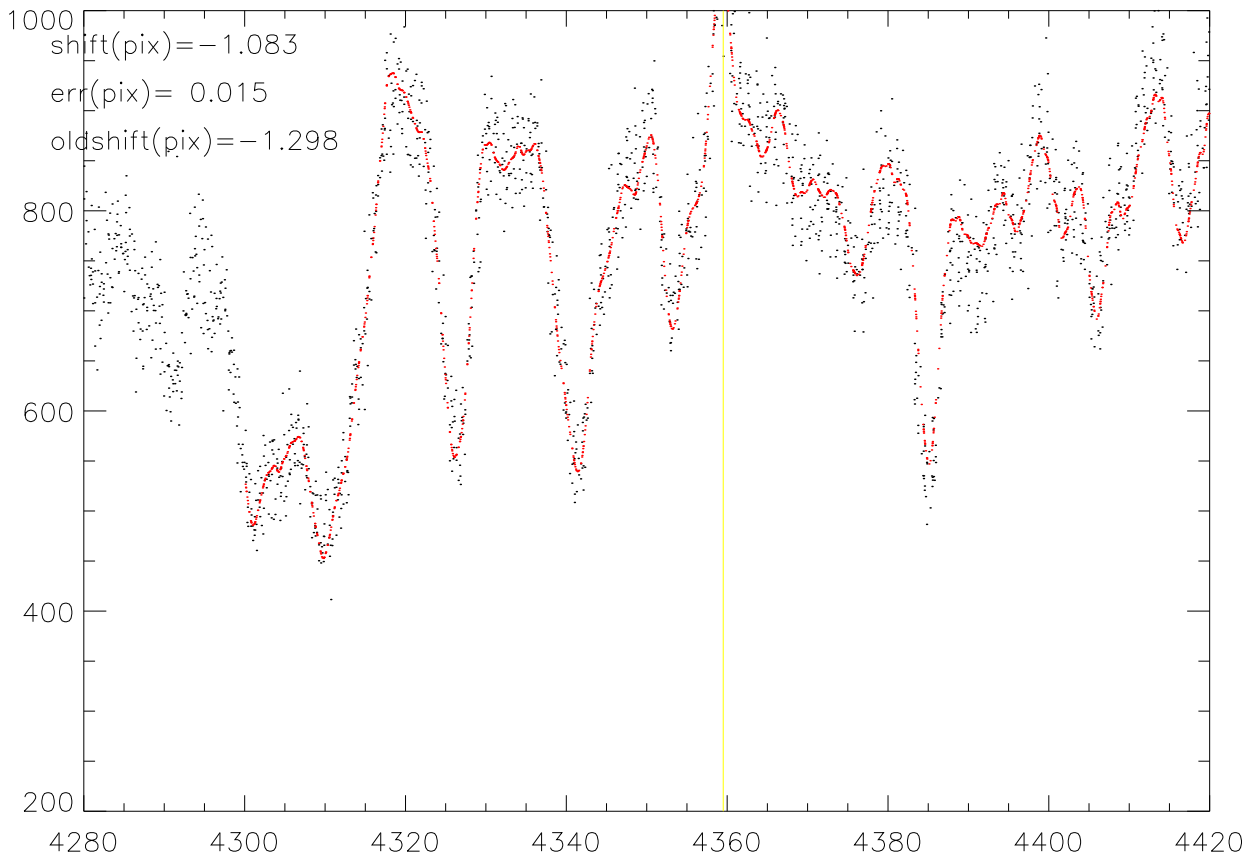

5460.9400
off: −0.91
sig: 0.029

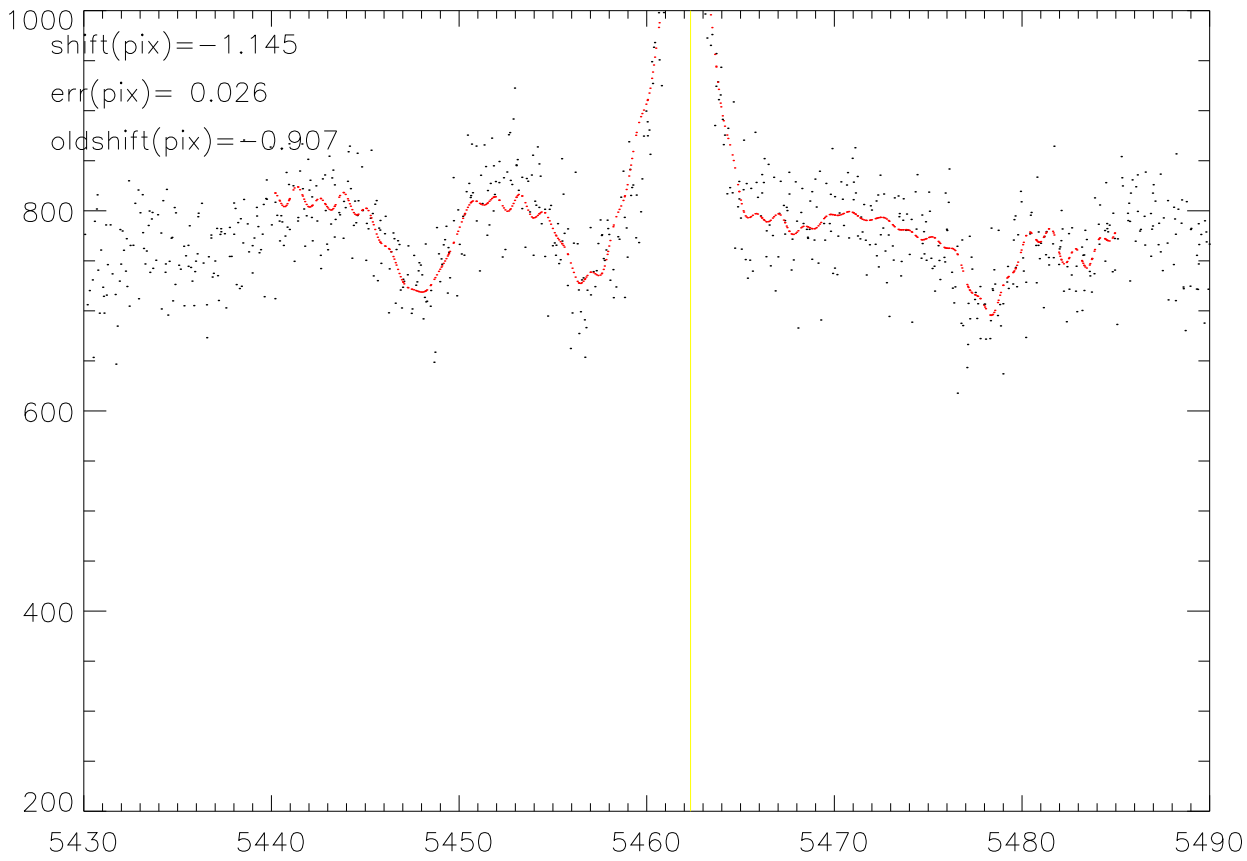

5577.3390
off: −1.09
sig: 0.003

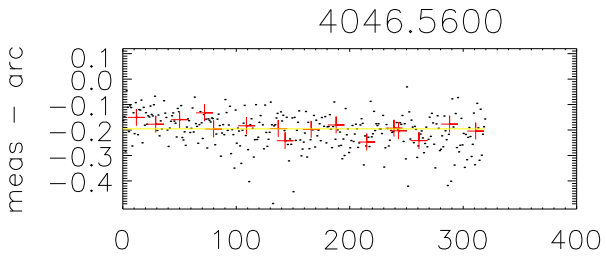

5889.9500
off: −0.99
sig: 0.016

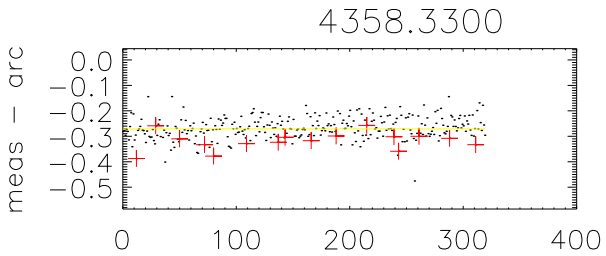

5895.9240
off: −1.06
sig: 0.027

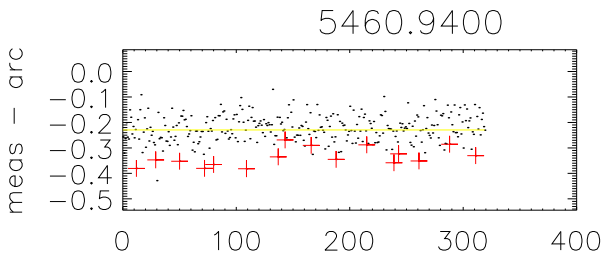

shift(pix)=−1.036
err(pix)= 0.026
oldshift(pix)= 0.000
1000
800
600
400
200
4020
4030
4040
4050
4060
4070
4080

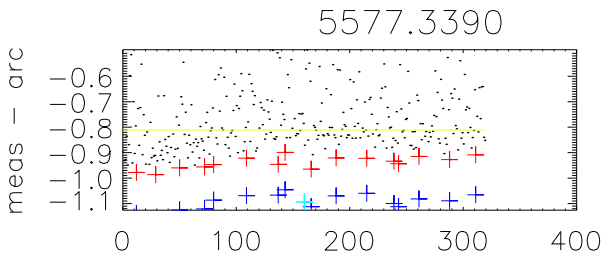

shift(pix)=−1.083
err(pix)= 0.015
oldshift(pix)=−1.298
1000
800
600
400
200
4280
4300
4320
4340
4360
4380
4400
4420

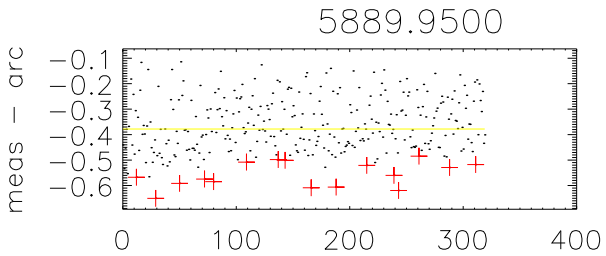

shift(pix)=−1.145
err(pix)= 0.026
oldshift(pix)=−0.907
1000
800
600
400
200
5430
5440
5450
5460
5470
5480
5490

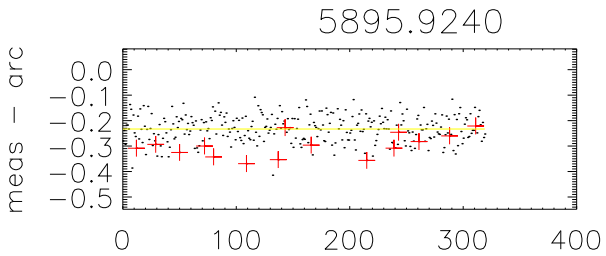

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

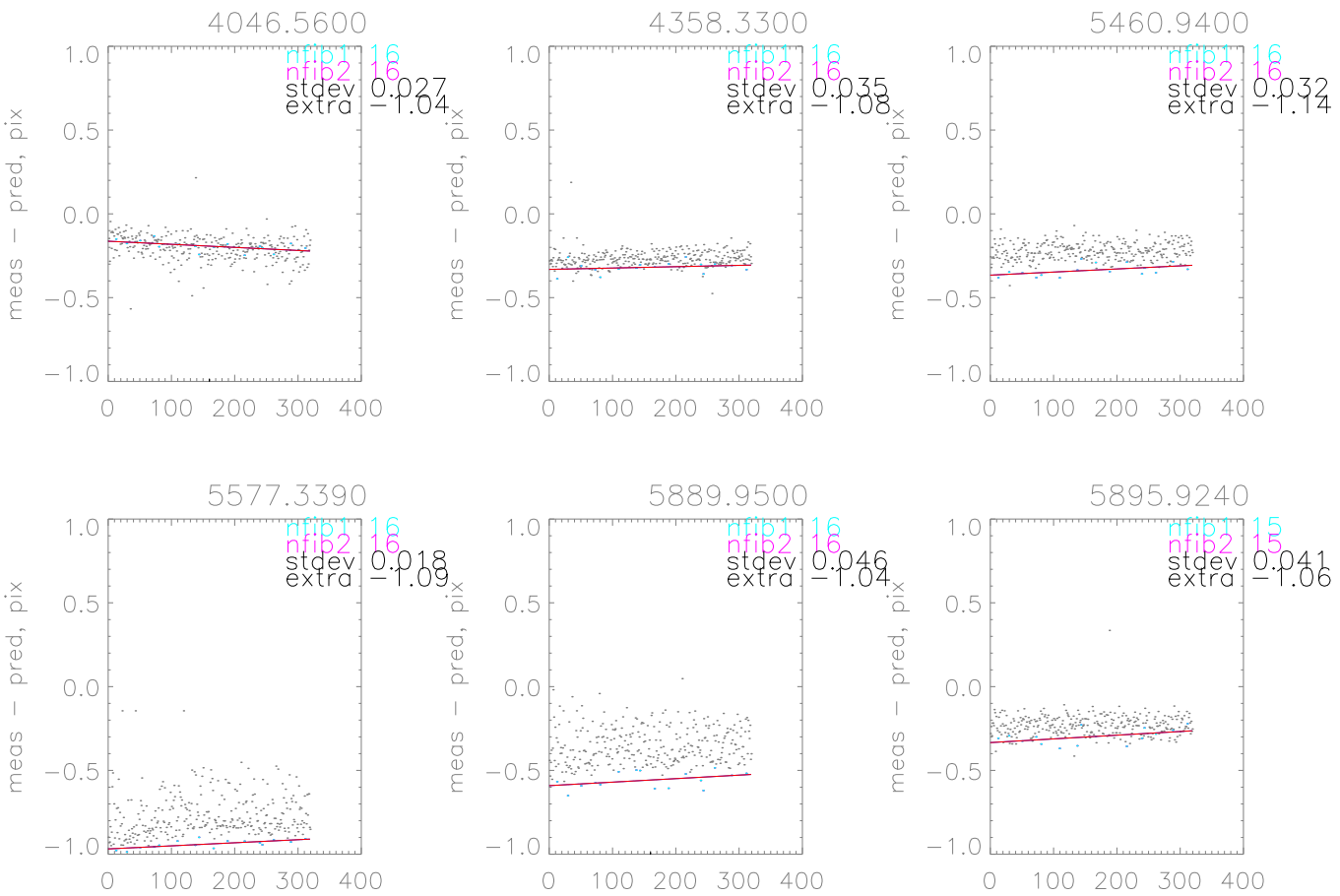

4358.3300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

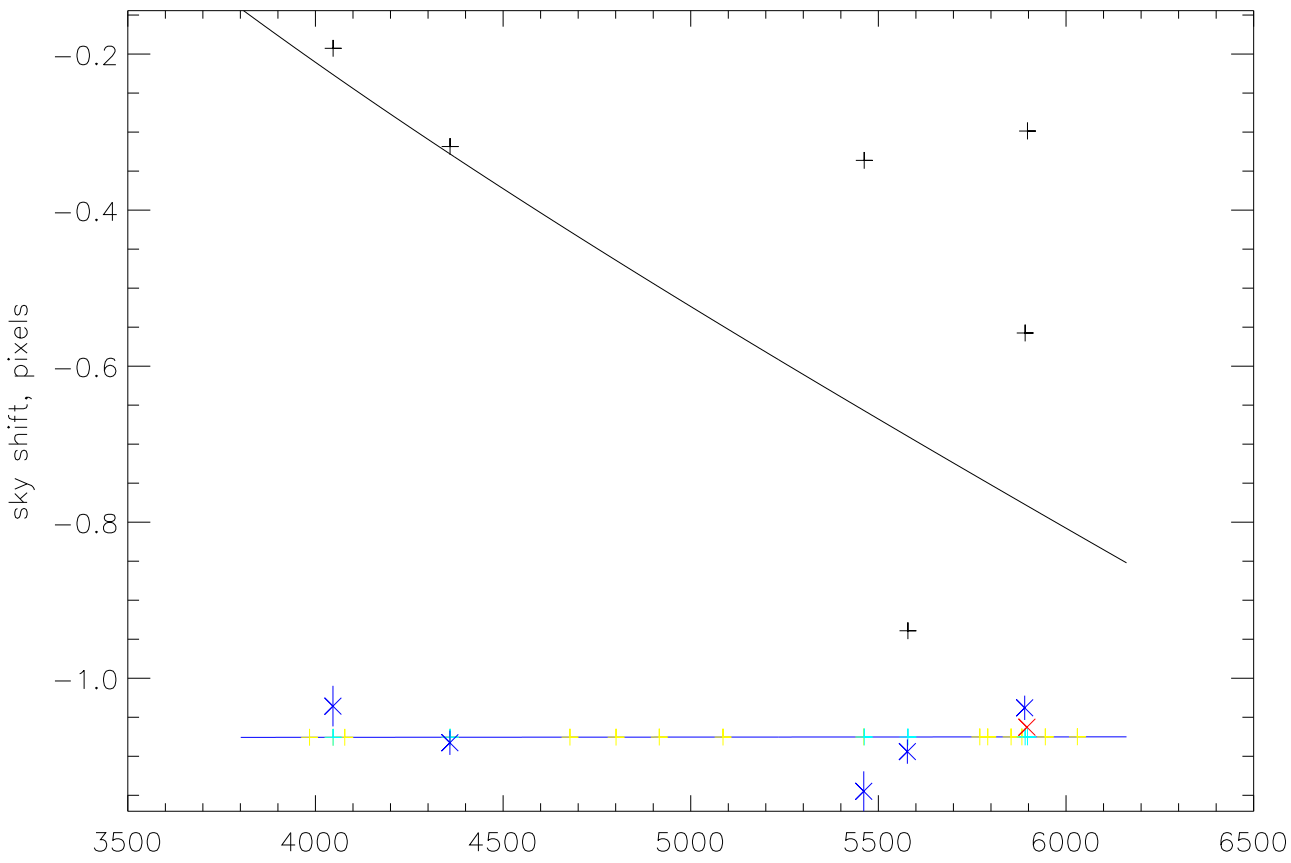

5460.9400
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

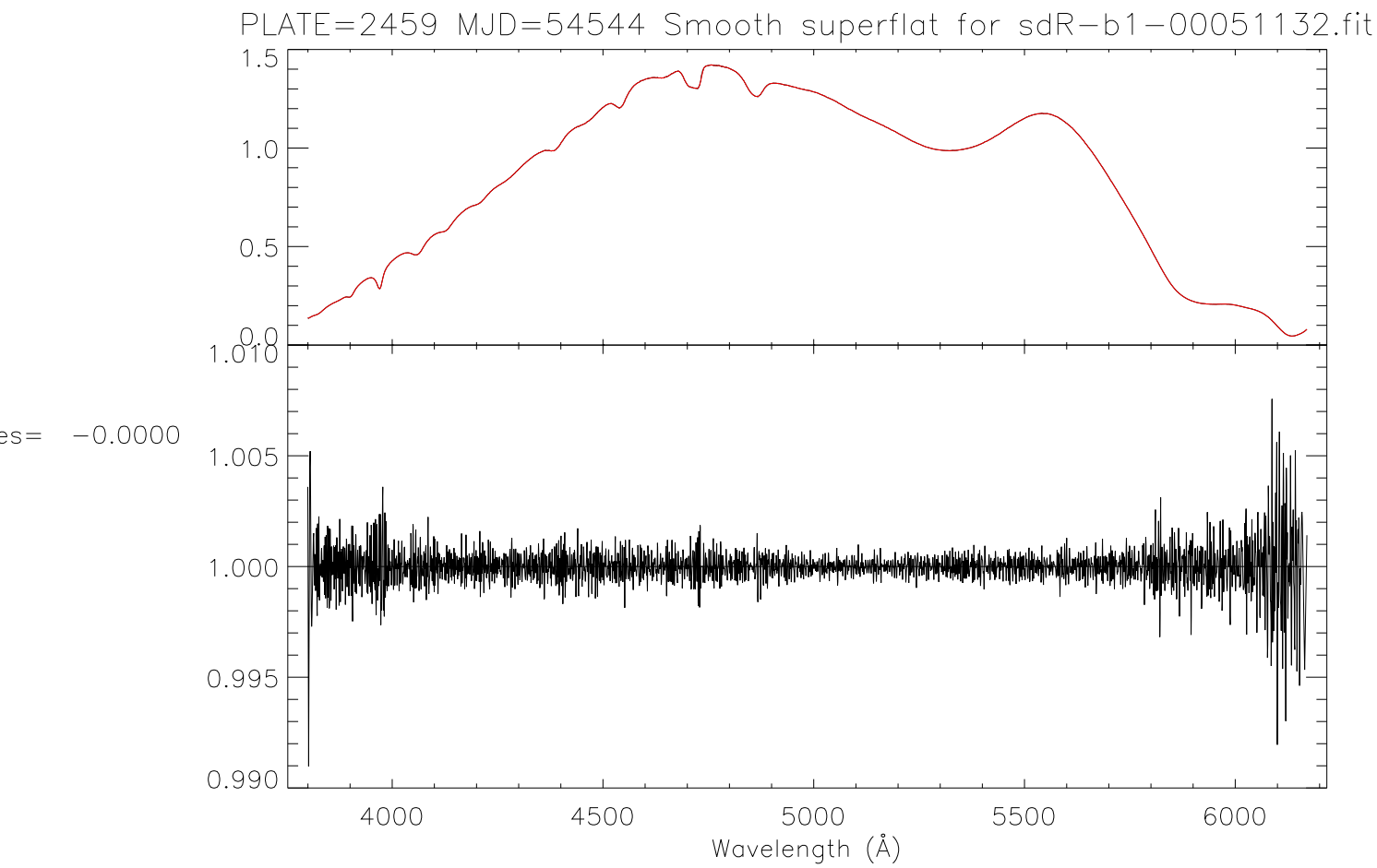

5577.3390
meas − arc
−0.6
−0.7
−0.8
−0.9
−1.0
−1.1
0
100
200
300
400

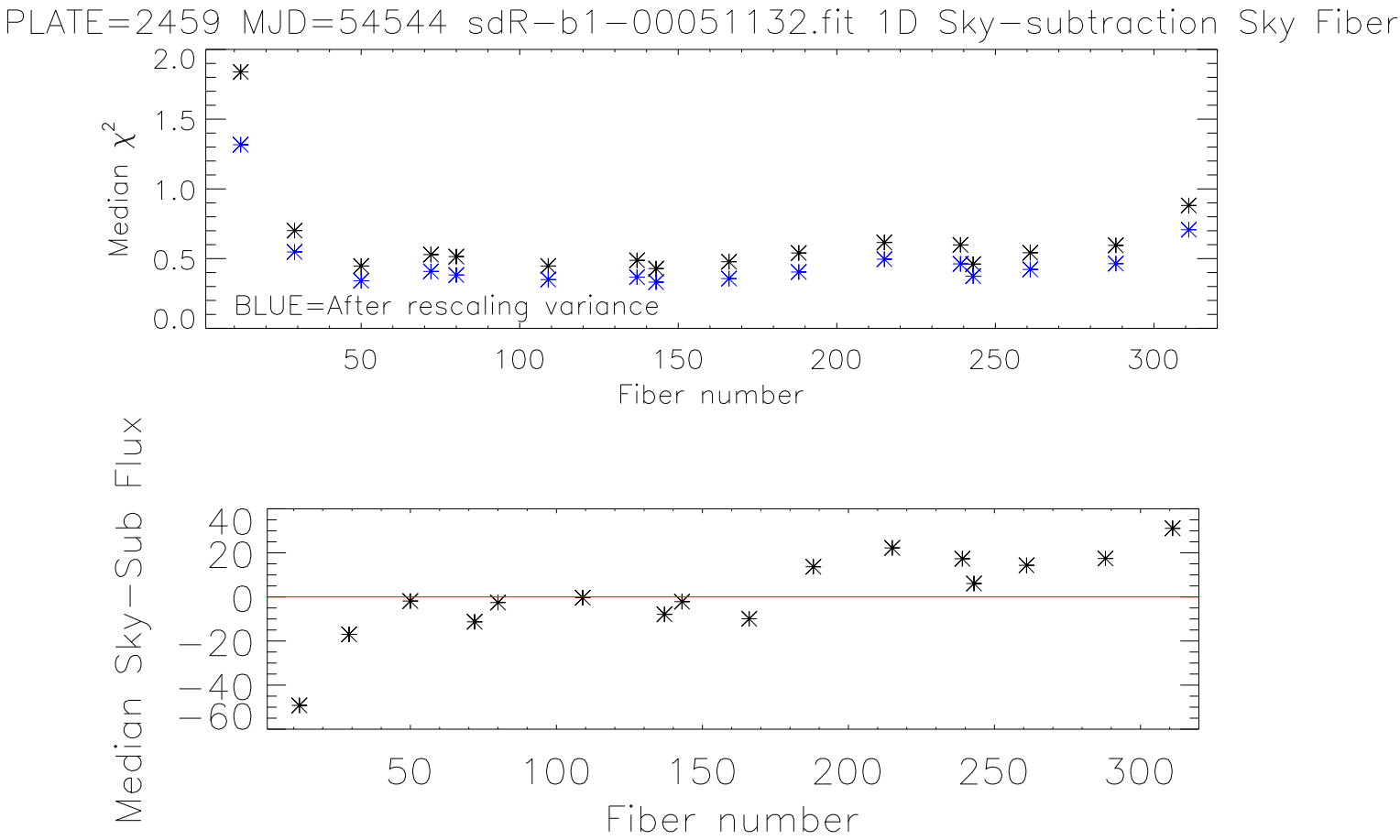

5889.9500
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

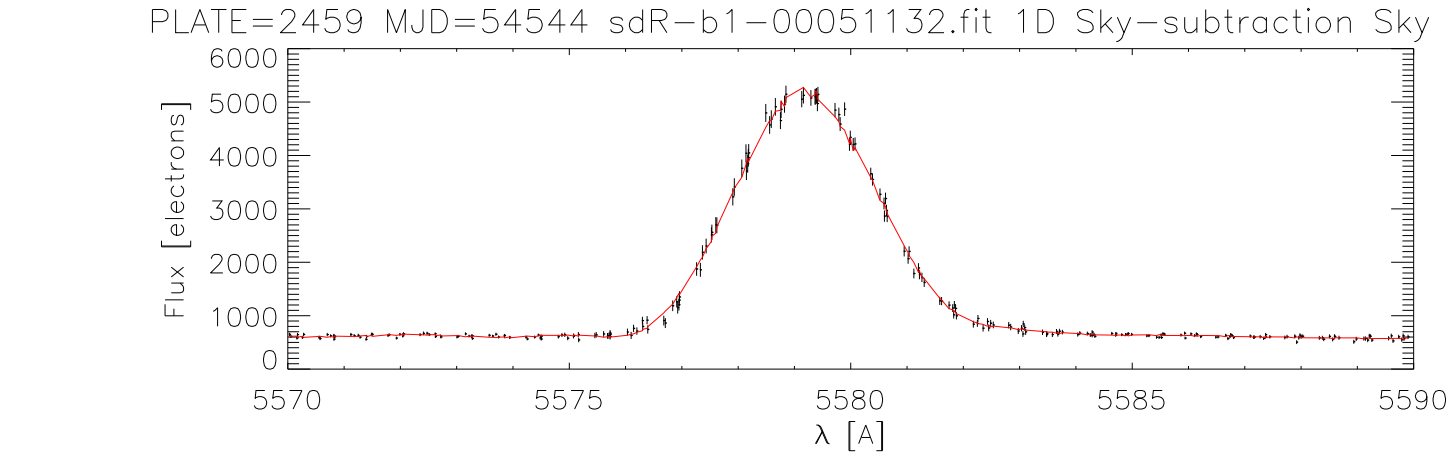

5895.9240
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

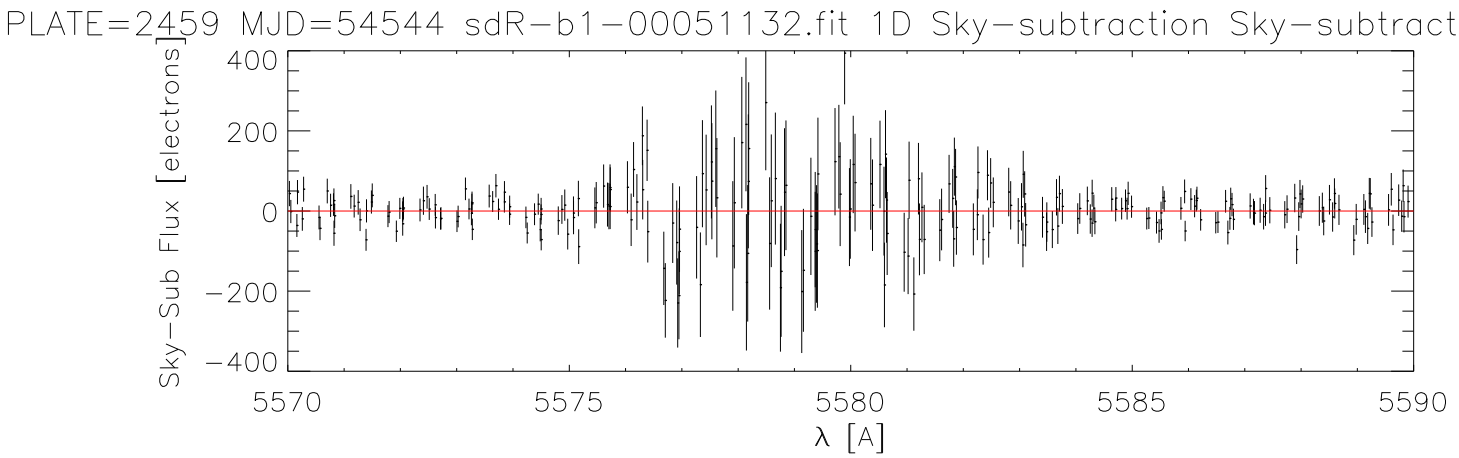

4046.5600
nfib1 16
nfib2 16
stdev 0.027
extra −1.04
4358.3300
nfib1 16
nfib2 16
stdev 0.035
extra −1.08
5460.9400
nfib1 16
nfib2 16
stdev 0.032
extra −1.14
5577.3390
nfib1 16
nfib2 16
stdev 0.018
extra −1.09
5889.9500
nfib1 16
nfib2 16
stdev 0.046
extra −1.04
5895.9240
nfib1 15
nfib2 15
stdev 0.041
extra −1.06
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

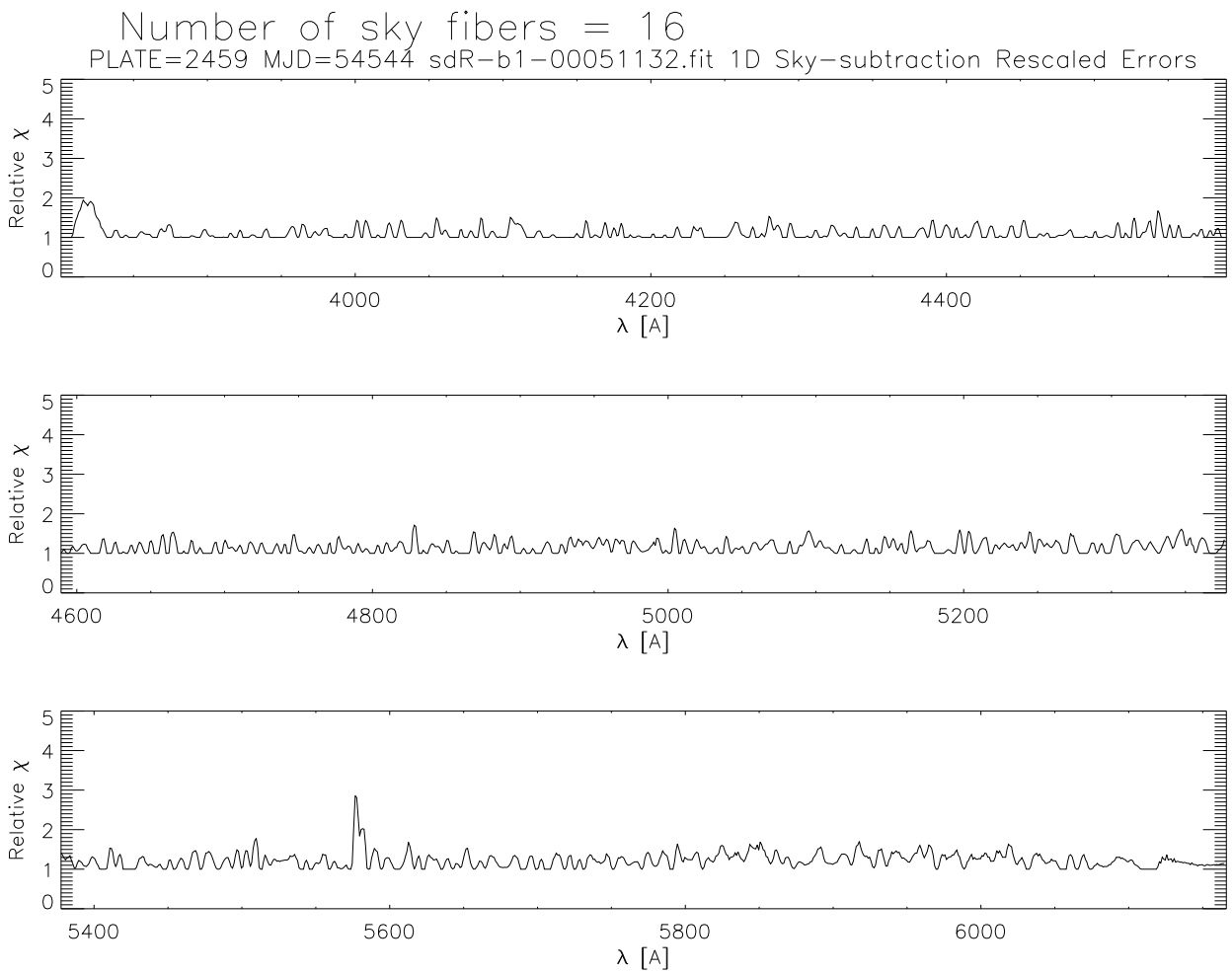

sky shift, pixels
−0.2
−0.4
−0.6
−0.8
−1.0
3500
4000
4500
5000
5500
6000
6500

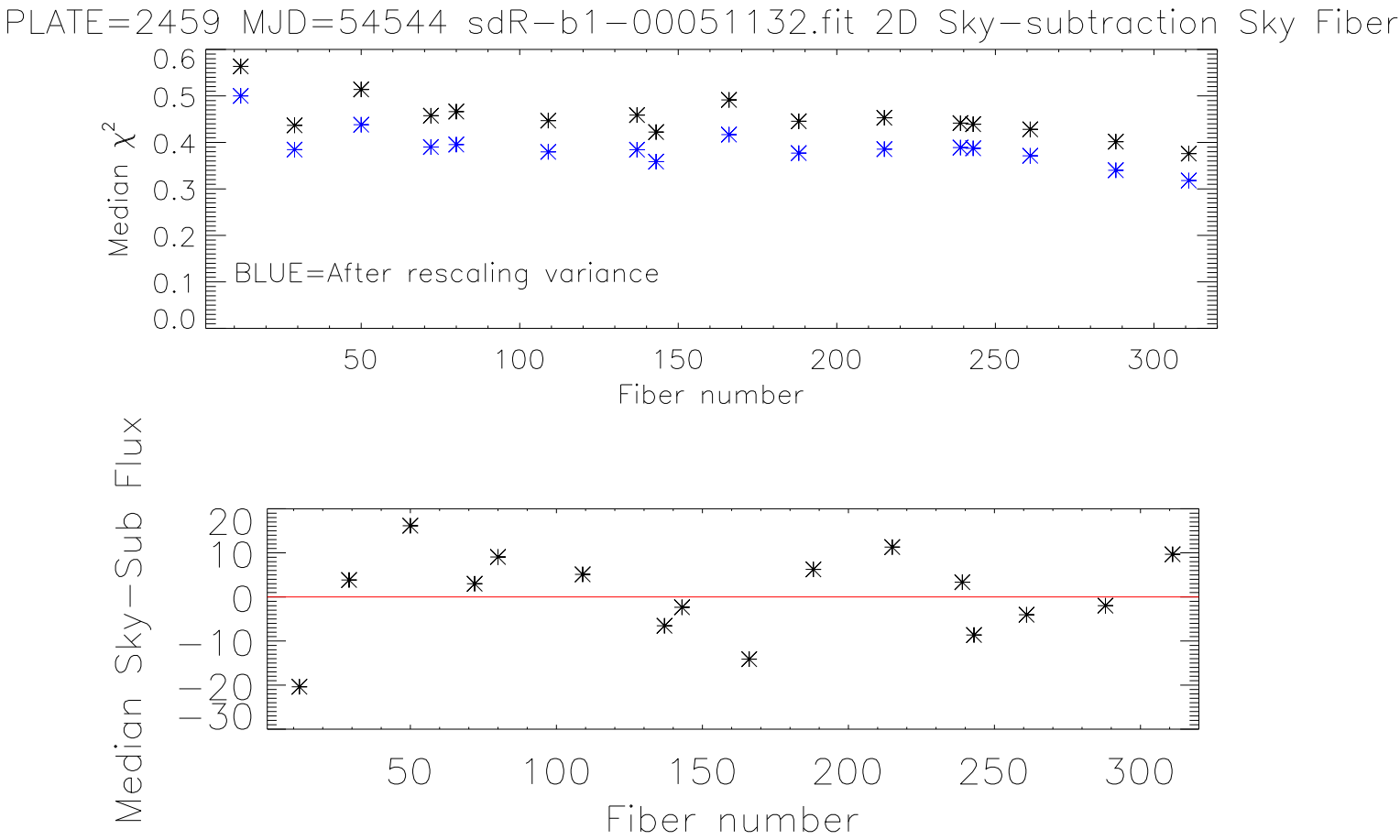

PLATE=2459 MJD=54544 Smooth superflat for sdR-b1-00051132.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= -0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

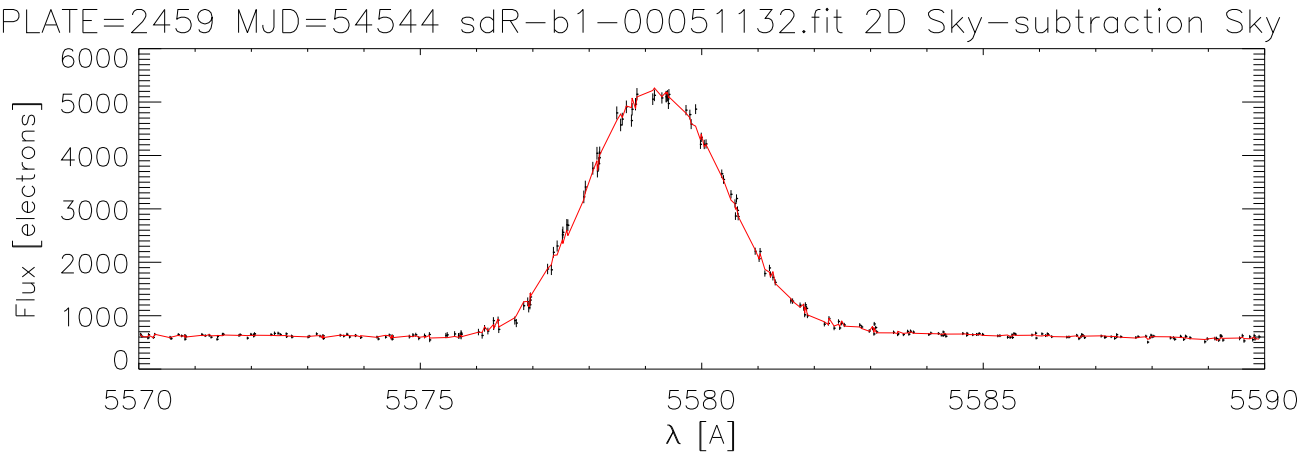

PLATE=2459 MJD=54544 sdR-b1-00051132.fit 1D Sky-subtraction Sky Fiber
Median χ^2
2.0
1.5
1.0
0.5
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
40
20
0
-20
-40
-60
50
100
150
200
250
300
Fiber number

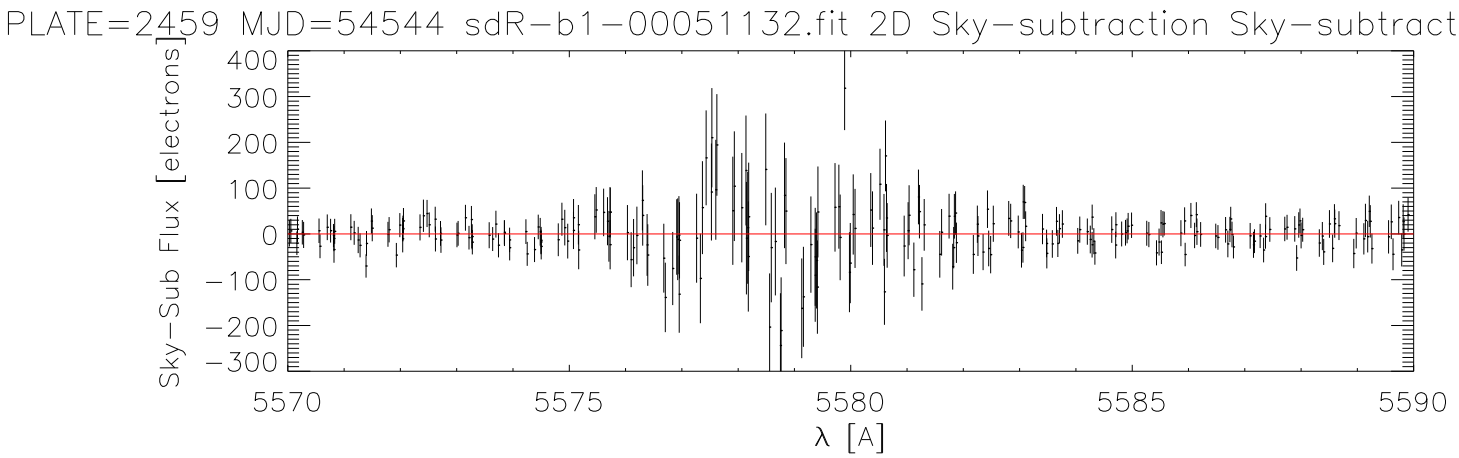

PLATE=2459 MJD=54544 sdR-b1-00051132.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

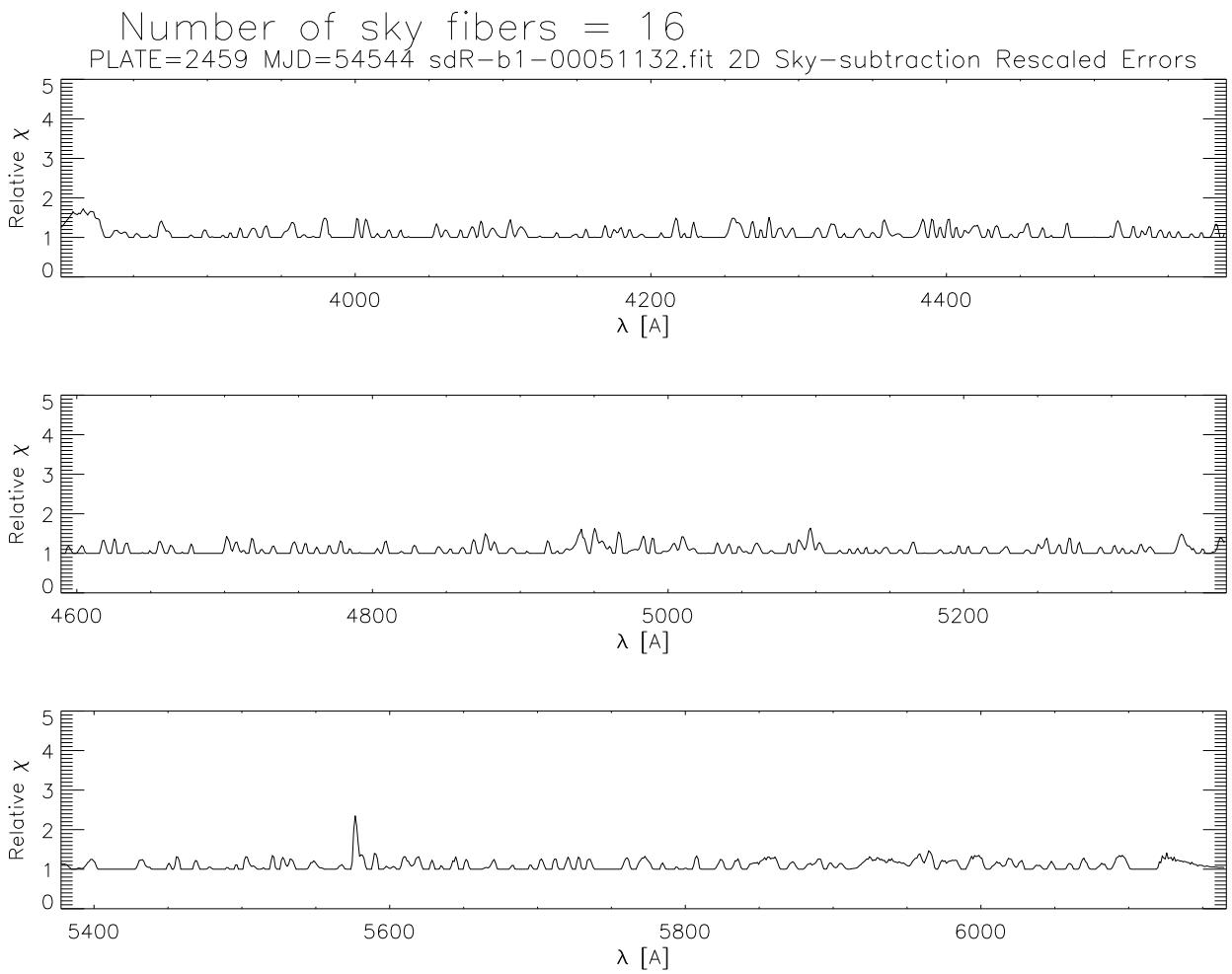

PLATE=2459 MJD=54544 sdR-b1-00051132.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

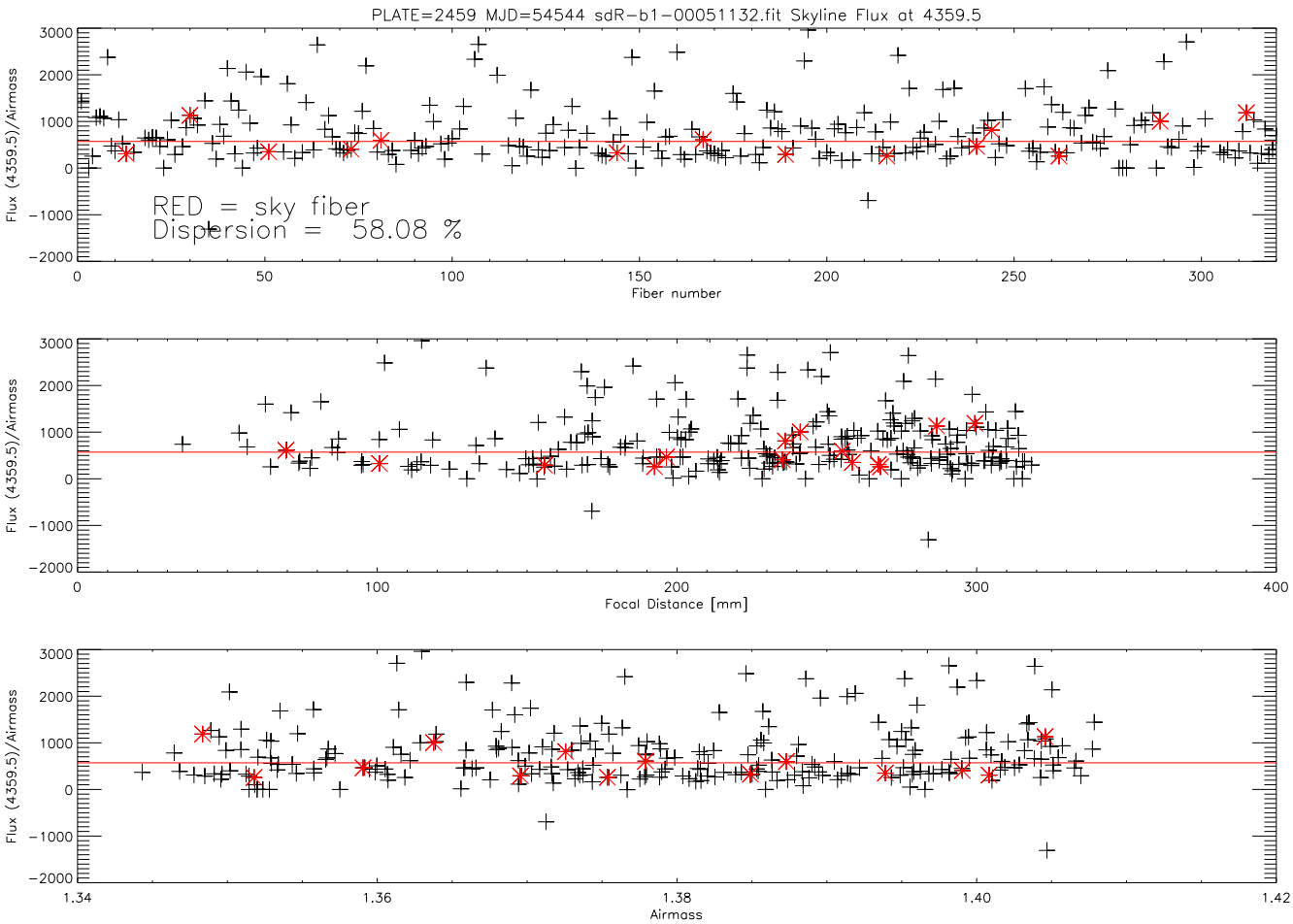

Number of sky fibers = 16
PLATE=2459 MJD=54544 sdR-b1-00051132.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

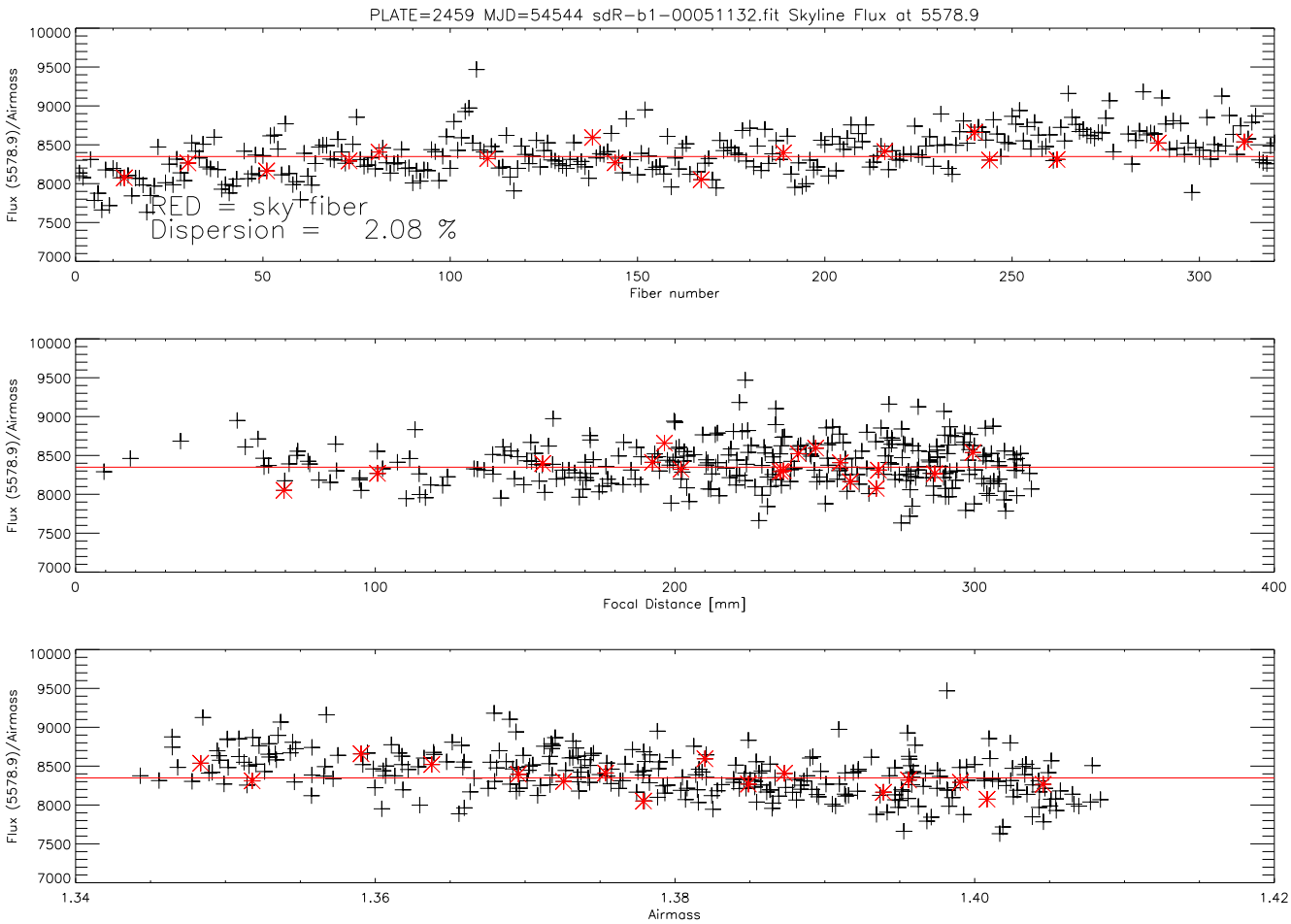

PLATE=2459 MJD=54544 sdR-b1-00051132.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
10
0
-10
-20
-30
50
100
150
200
250
300
Fiber number

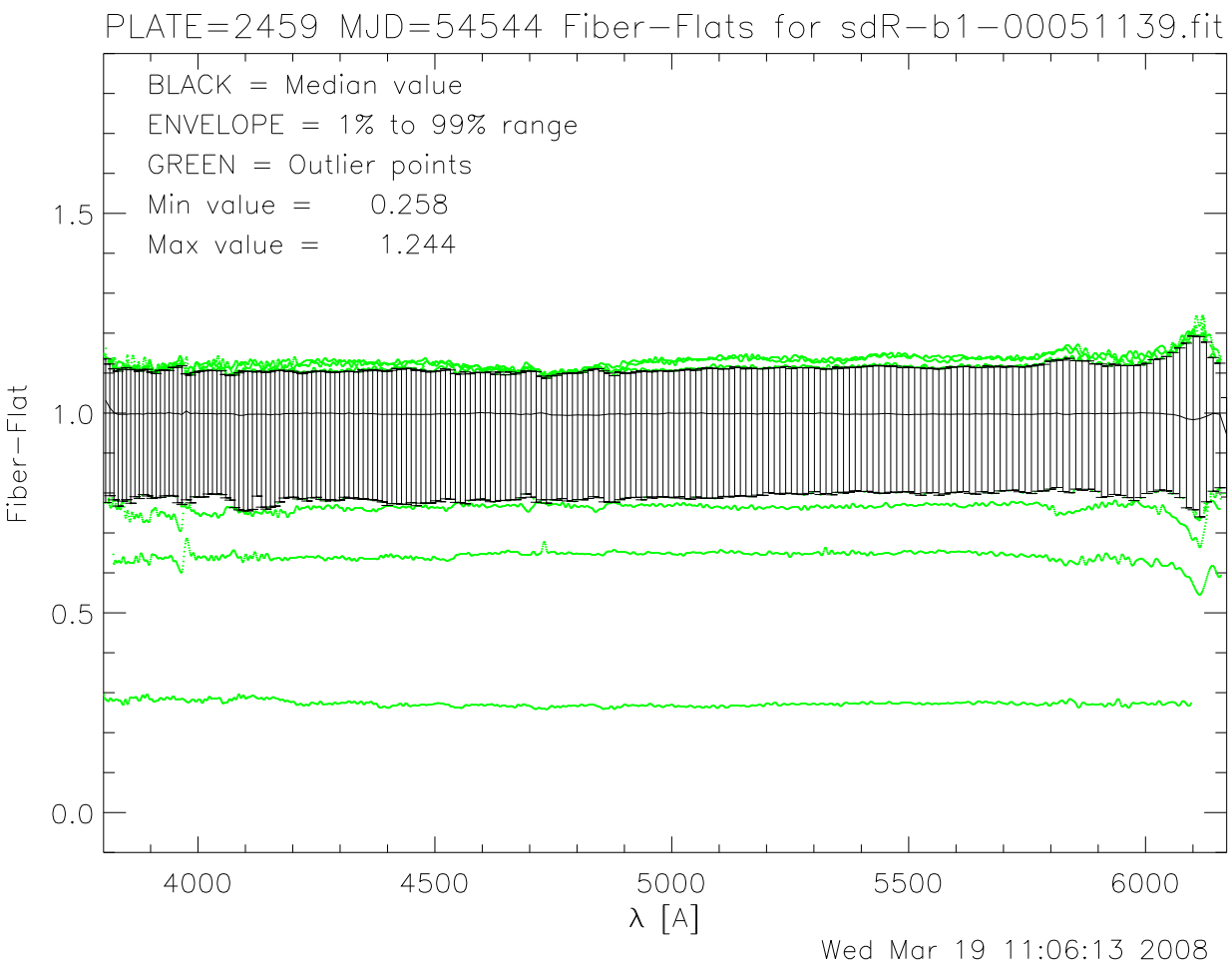

PLATE=2459 MJD=54544 sdR-b1-00051132.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

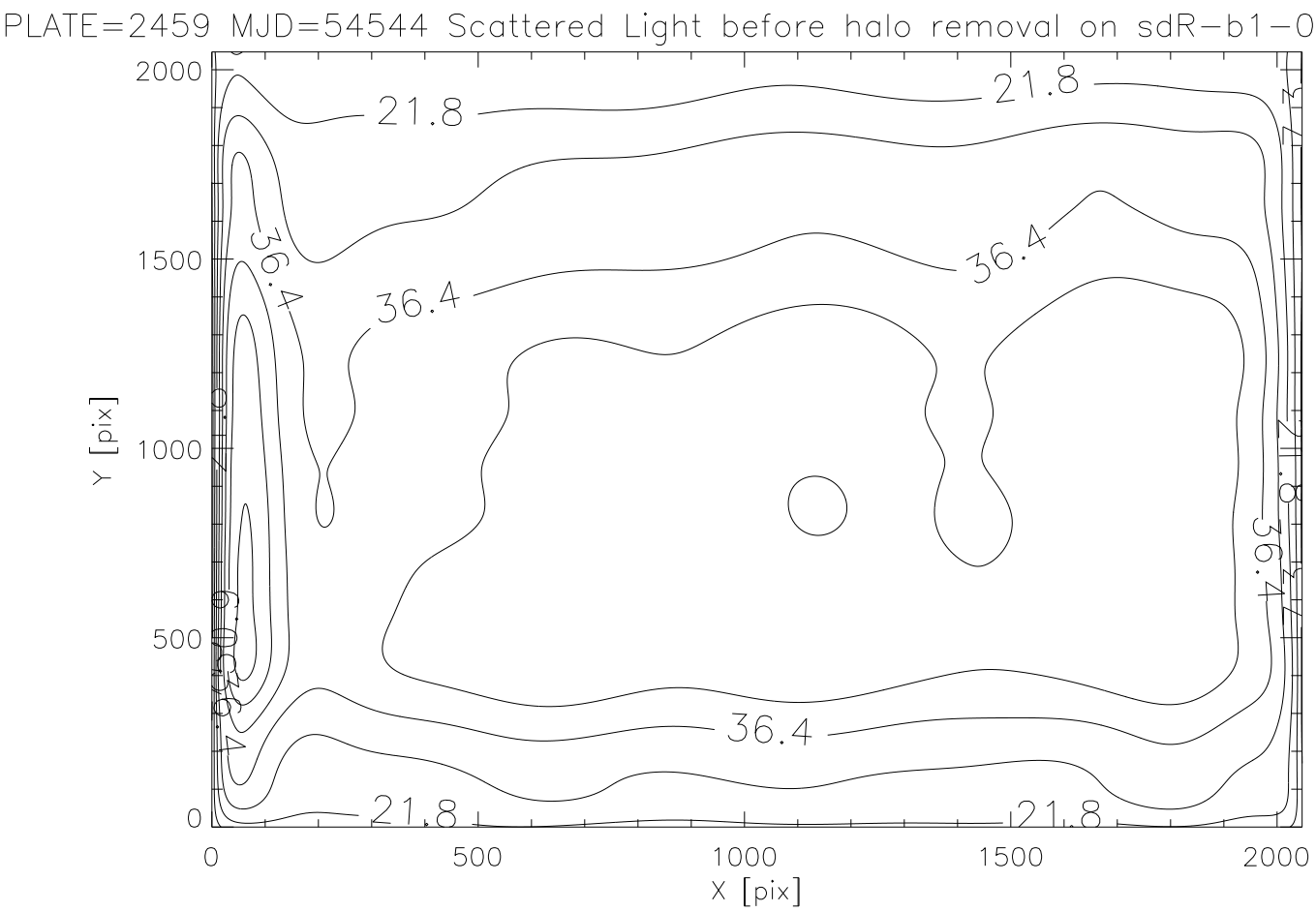

PLATE=2459 MJD=54544 sdR-b1-00051132.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

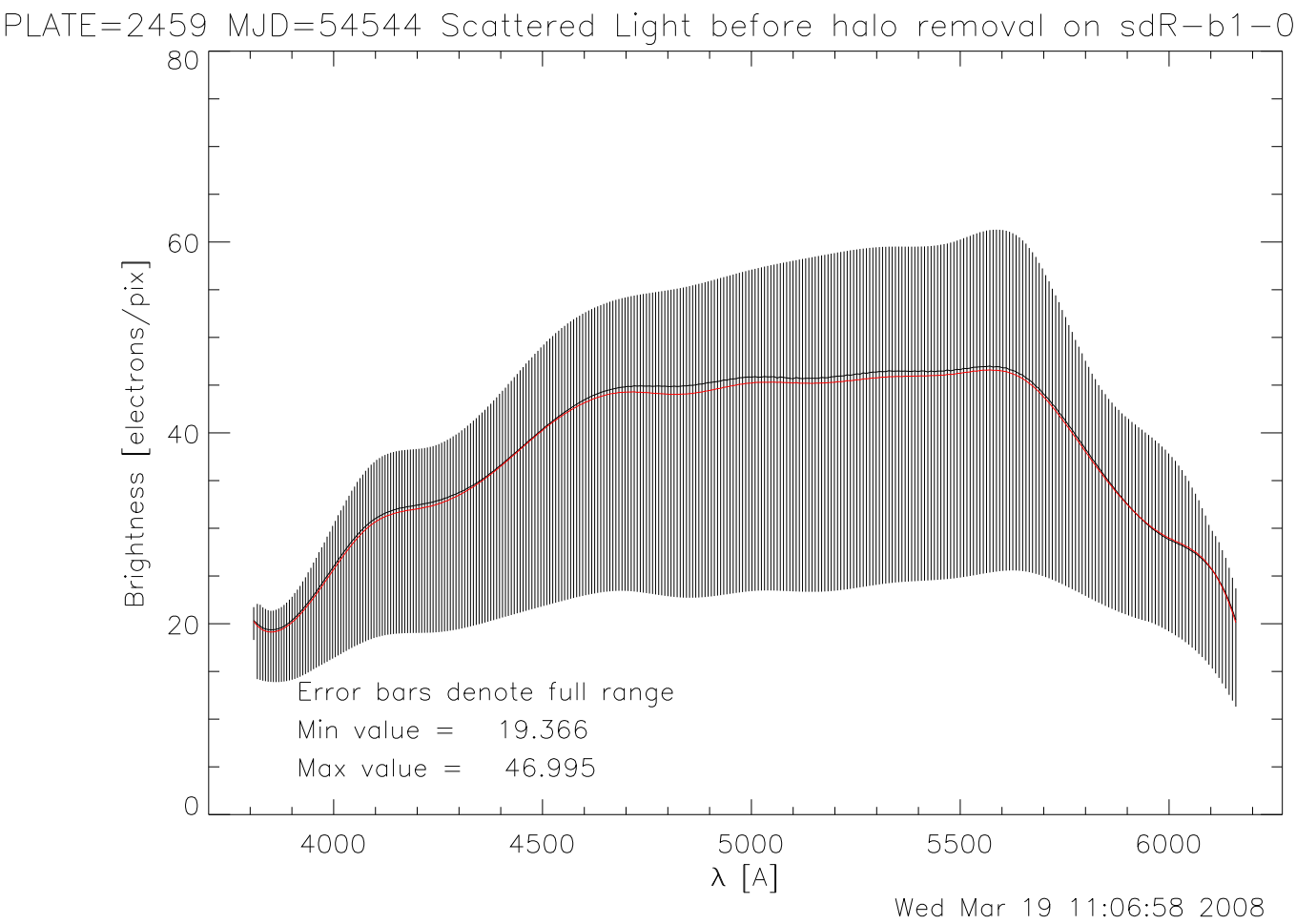

Number of sky fibers = 16
PLATE=2459 MJD=54544 sdR-b1-00051132.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

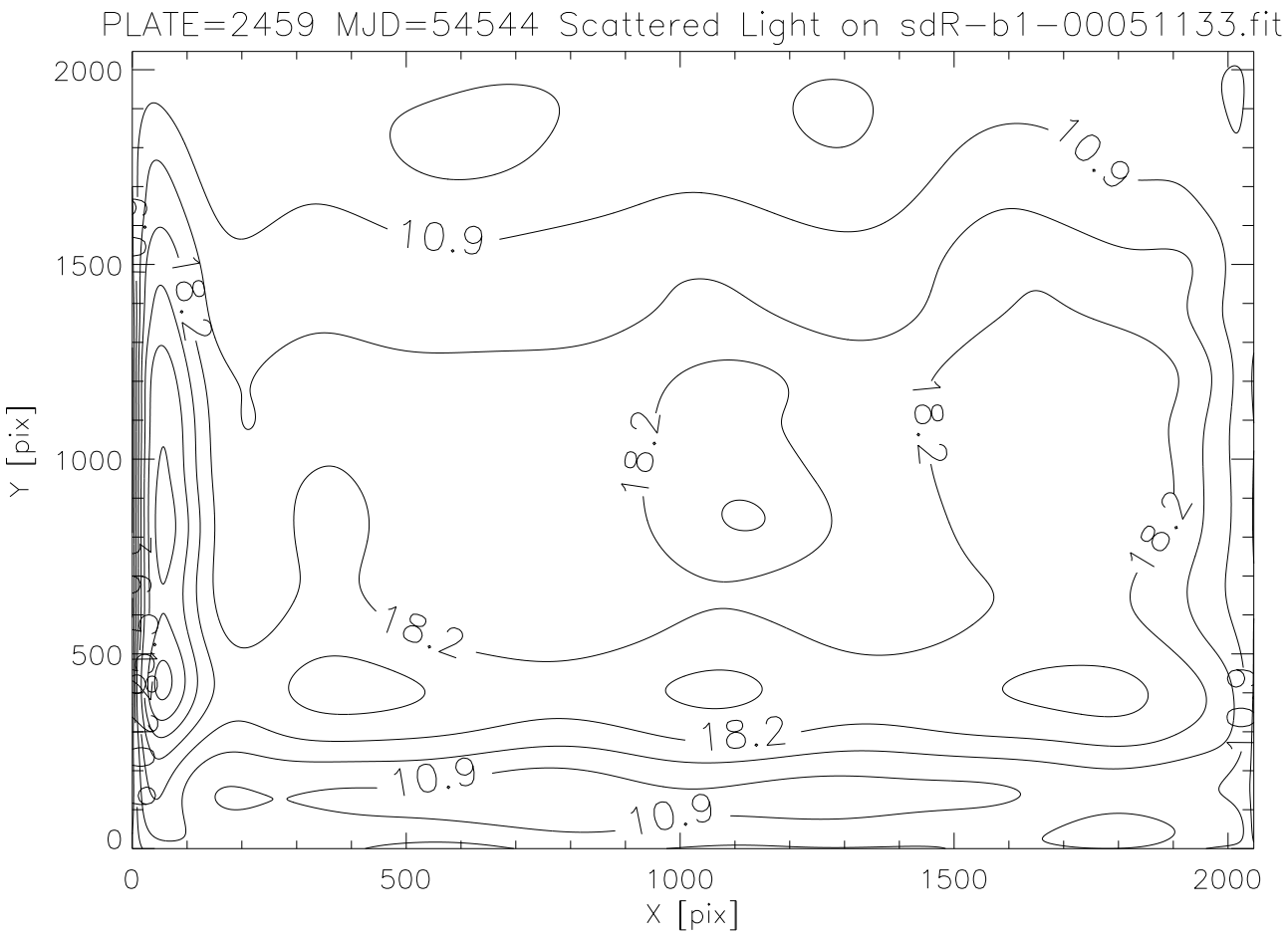

PLATE=2459 MJD=54544 sdR-b1-00051132.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 58.08 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

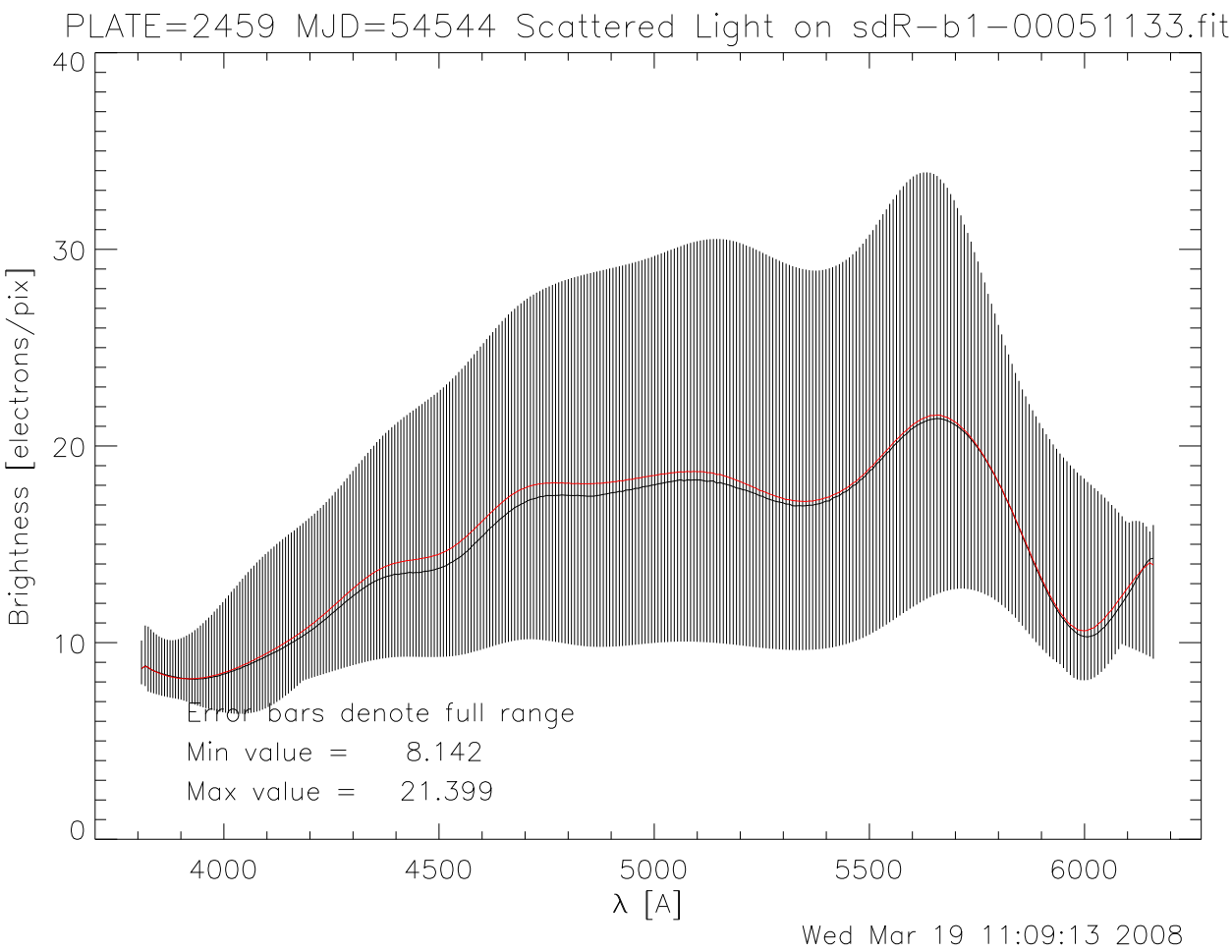

PLATE=2459 MJD=54544 sdR-b1-00051132.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.08 %
Fiber number
Focal Distance [mm]
Airmass

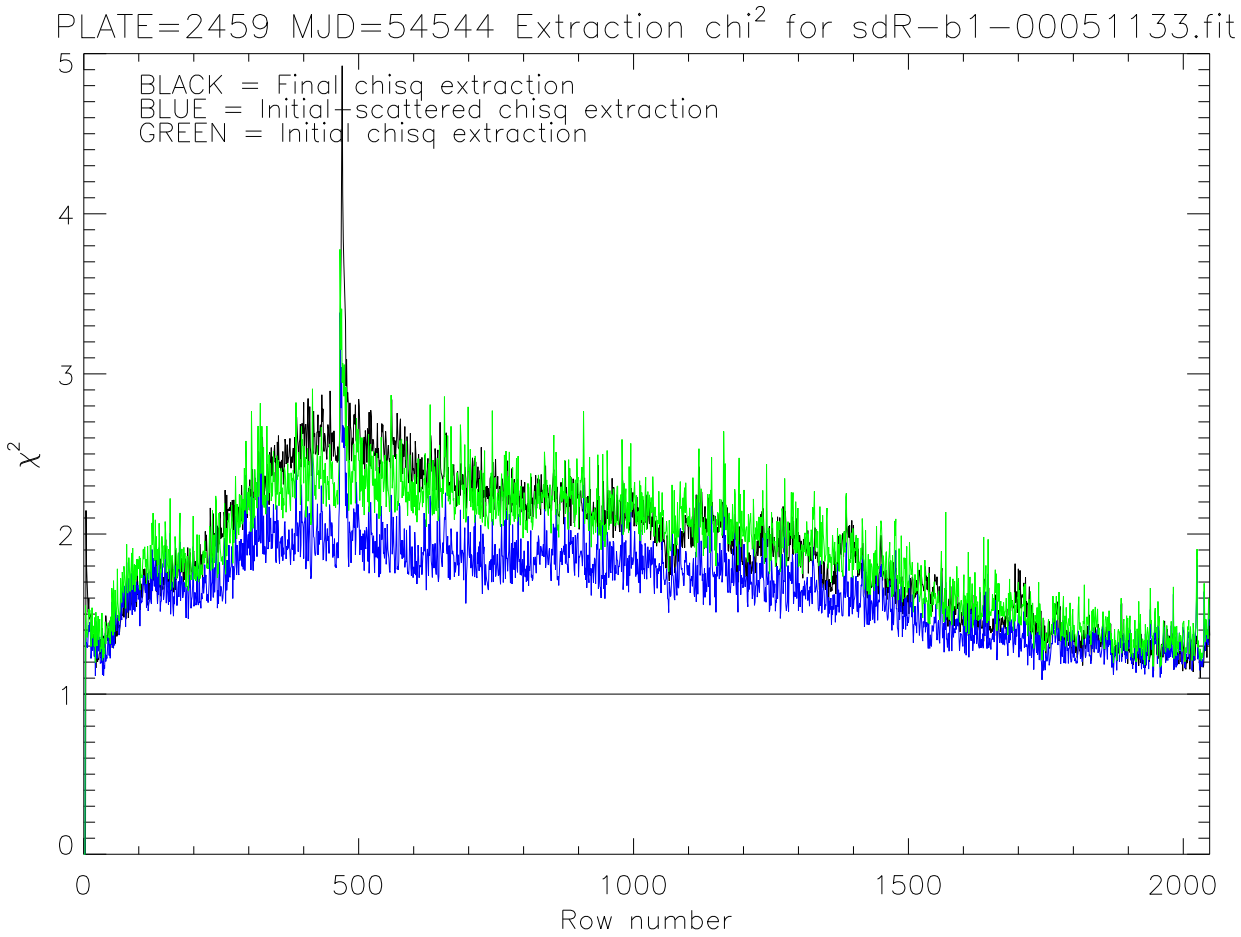

PLATE=2459 MJD=54544 Fiber−Flats for sdR−b1−00051139.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.258
Max value = 1.244
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 19 11:06:13 2008

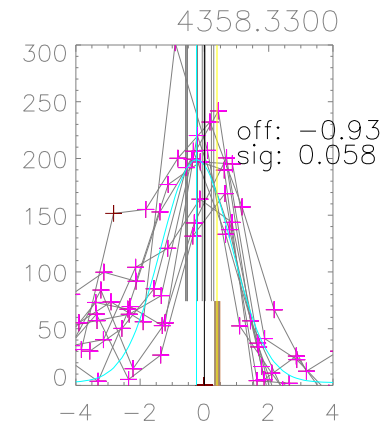

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR−b1−00051133.f
21.8
36.4
Y [pix]
X [pix]
0
500
1000
1500
2000

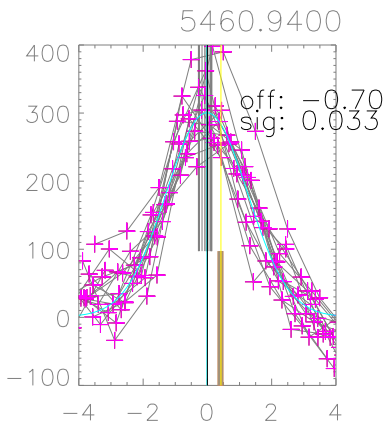

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR−b1−00051133.f
Brightness [electrons/pix]
80
60
40
20
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 19.366
Max value = 46.995
Wed Mar 19 11:06:58 2008

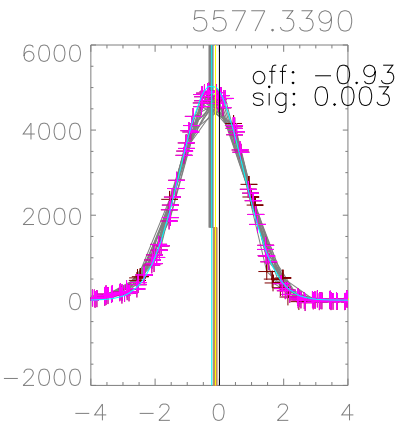

PLATE=2459 MJD=54544 Scattered Light on sdR-b1-00051133.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
10.9
18.2

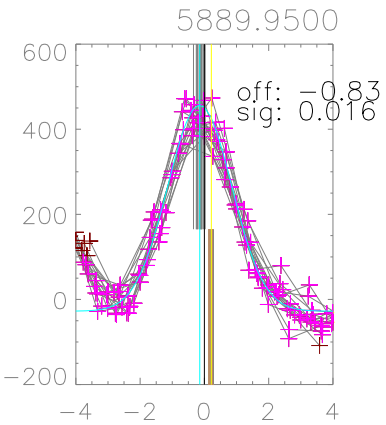

PLATE=2459 MJD=54544 Scattered Light on sdR-b1-00051133.fit
Brightness [electrons/pix]
40
30
20
10
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 8.142
Max value = 21.399
Wed Mar 19 11:09:13 2008

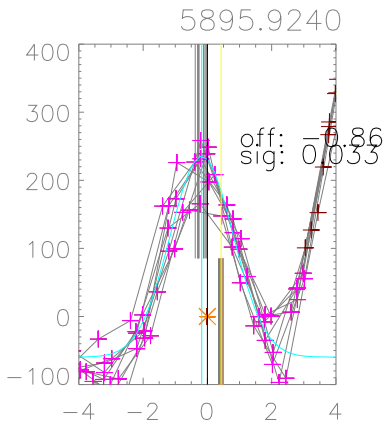

PLATE=2459 MJD=54544 Extraction chi^2 for sdR-b1-00051133.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

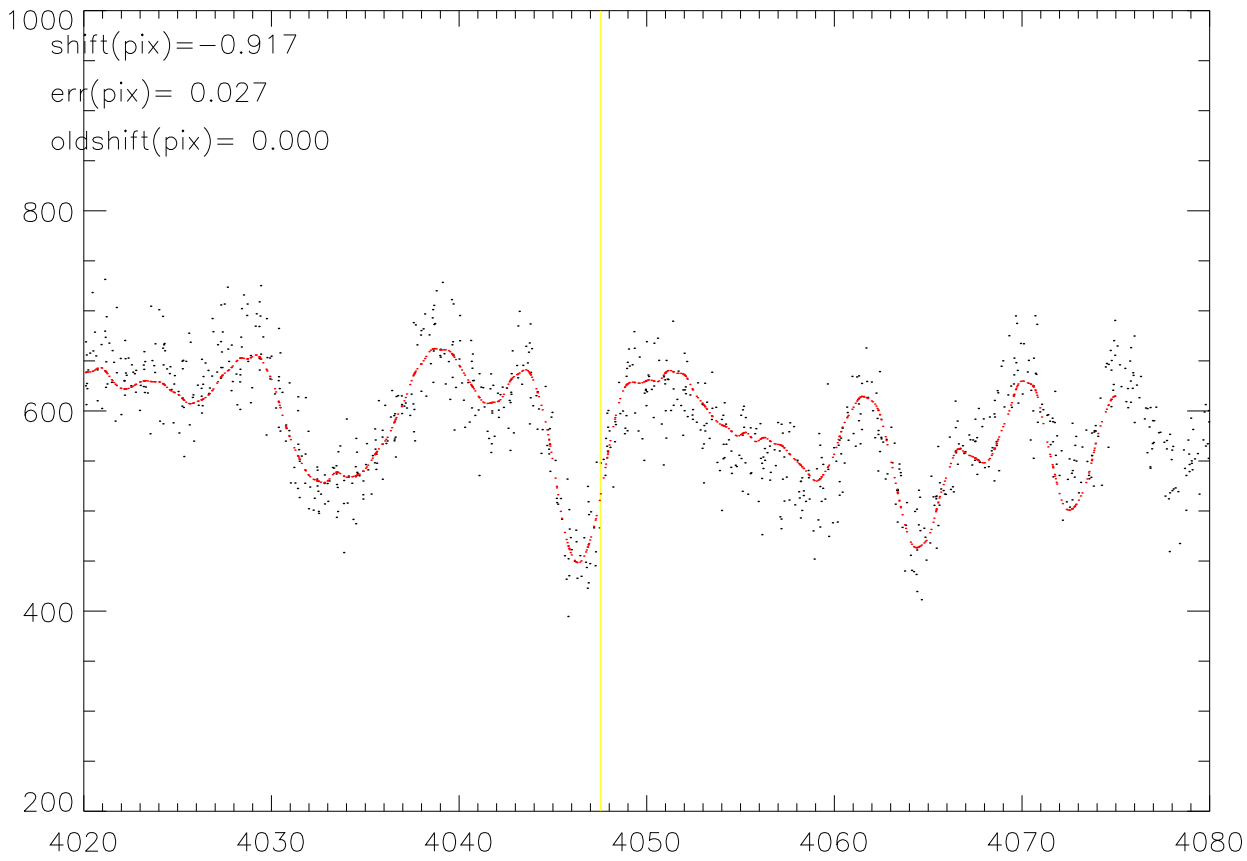

4358.3300
off: −0.93
sig: 0.058

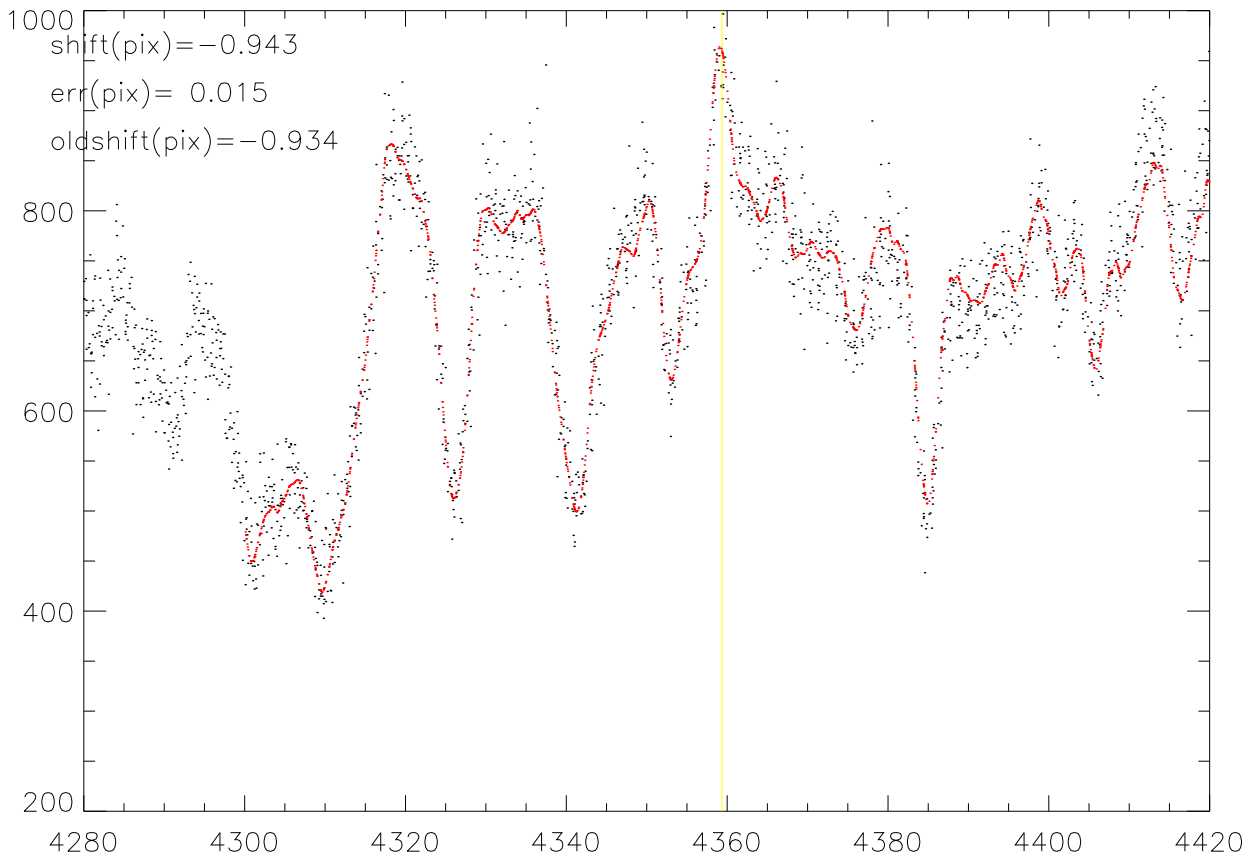

5460.9400
off: −0.70
sig: 0.033

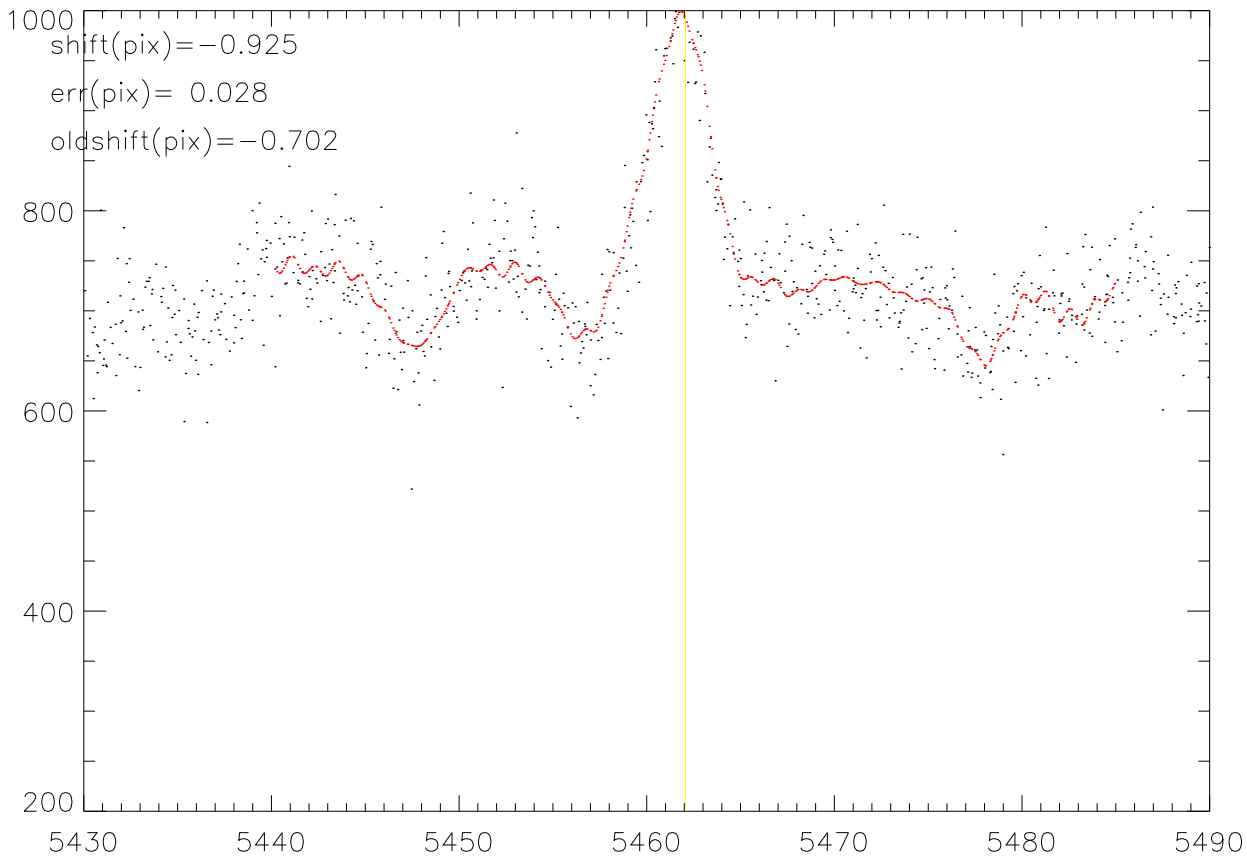

5577.3390
off: −0.93
sig: 0.003

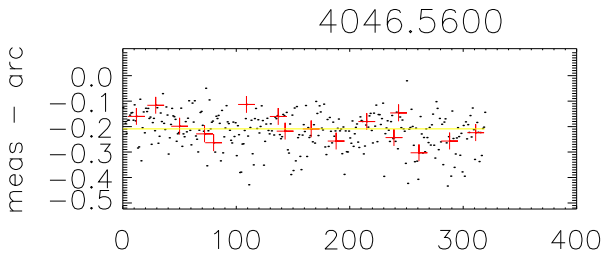

5889.9500
off: −0.83
sig: 0.016

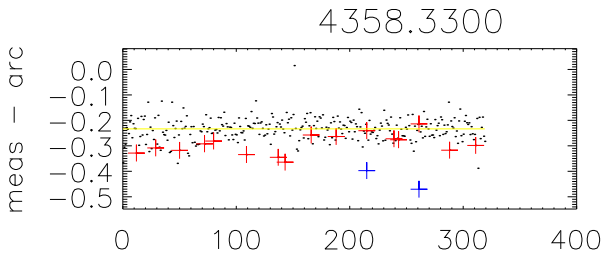

5895.9240
off: −0.86
sig: 0.033

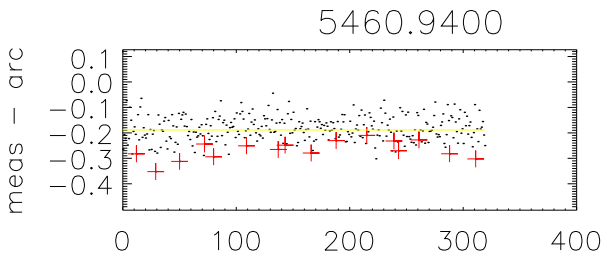

shift(pix)=−0.917
err(pix)= 0.027
oldshift(pix)= 0.000
1000
800
600
400
200
4020
4030
4040
4050
4060
4070
4080

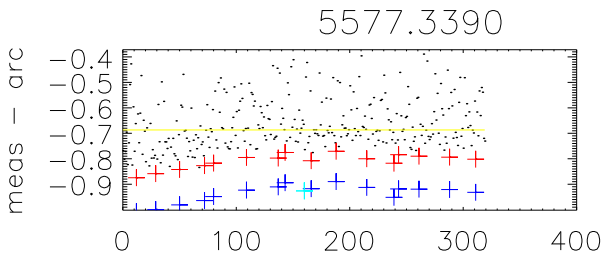

shift(pix)=−0.943
err(pix)= 0.015
oldshift(pix)=−0.934
1000
800
600
400
200
4280
4300
4320
4340
4360
4380
4400
4420

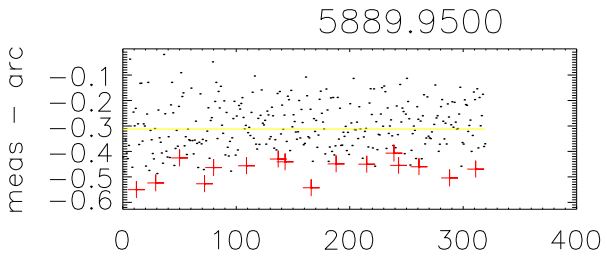

shift(pix)=−0.925
err(pix)= 0.028
oldshift(pix)=−0.702
1000
800
600
400
200
5430
5440
5450
5460
5470
5480
5490

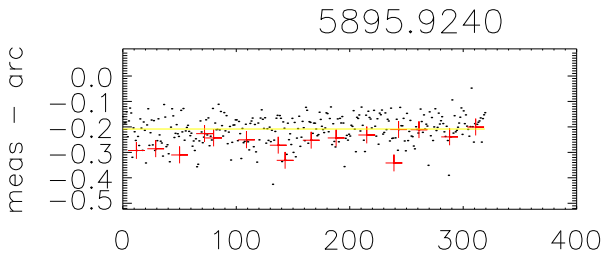

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

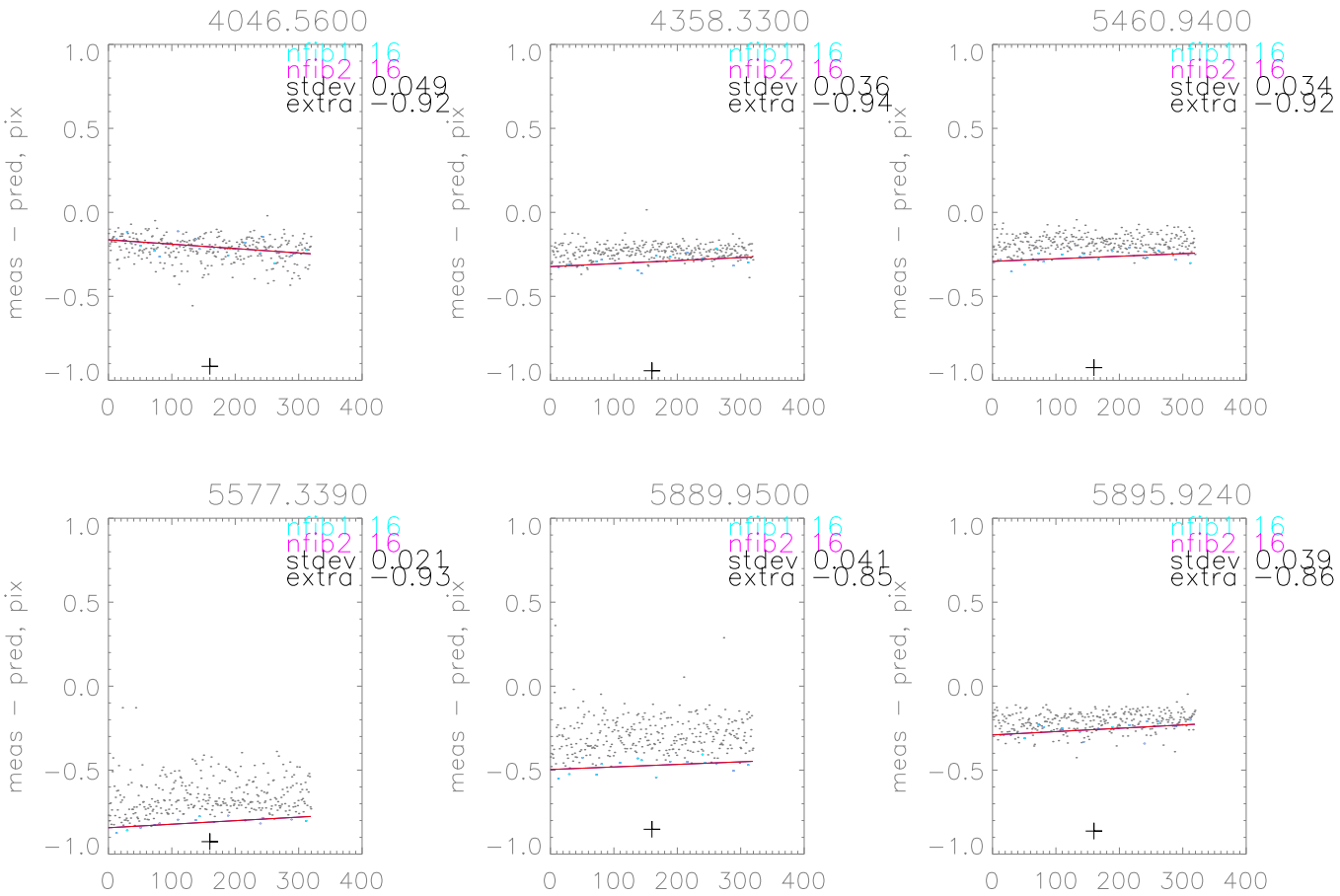

4358.3300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

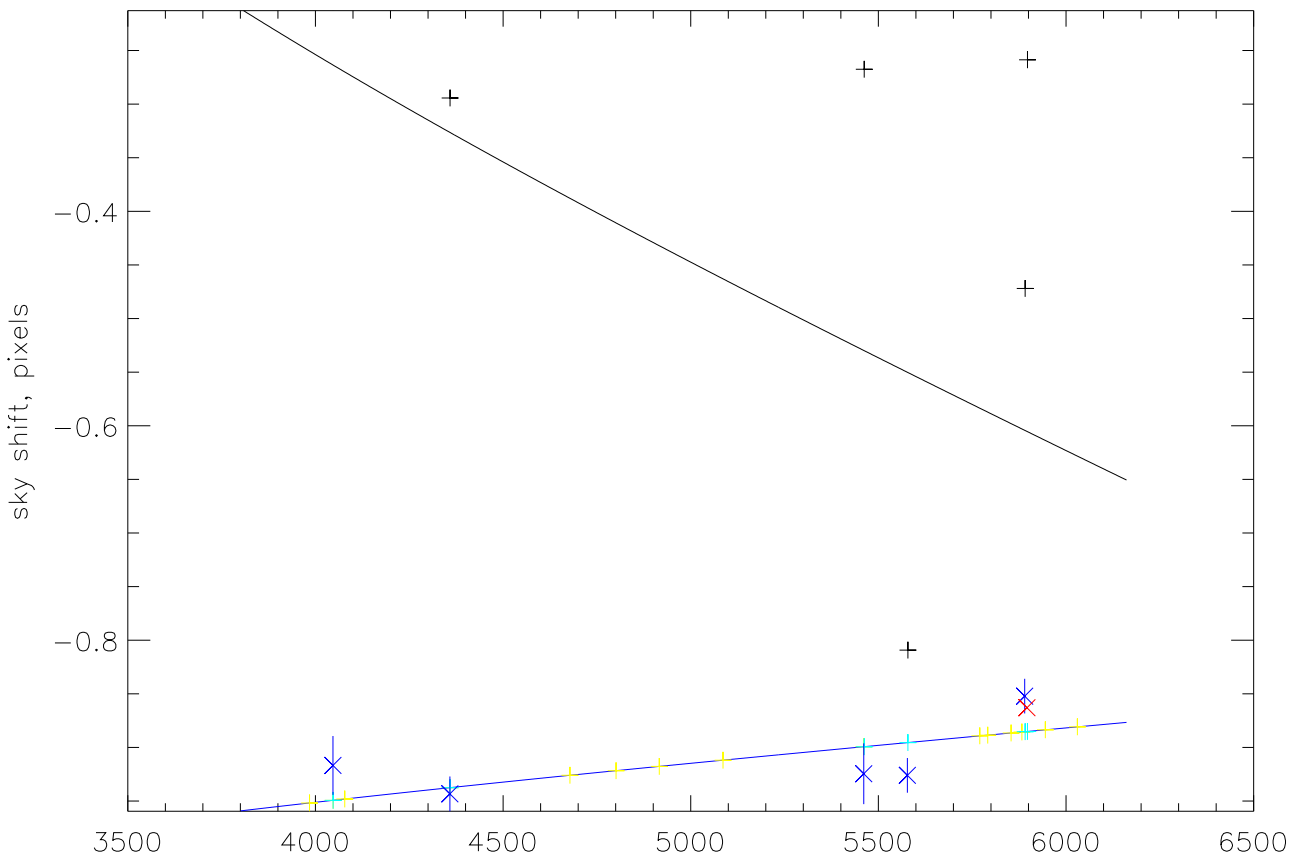

5460.9400
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


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

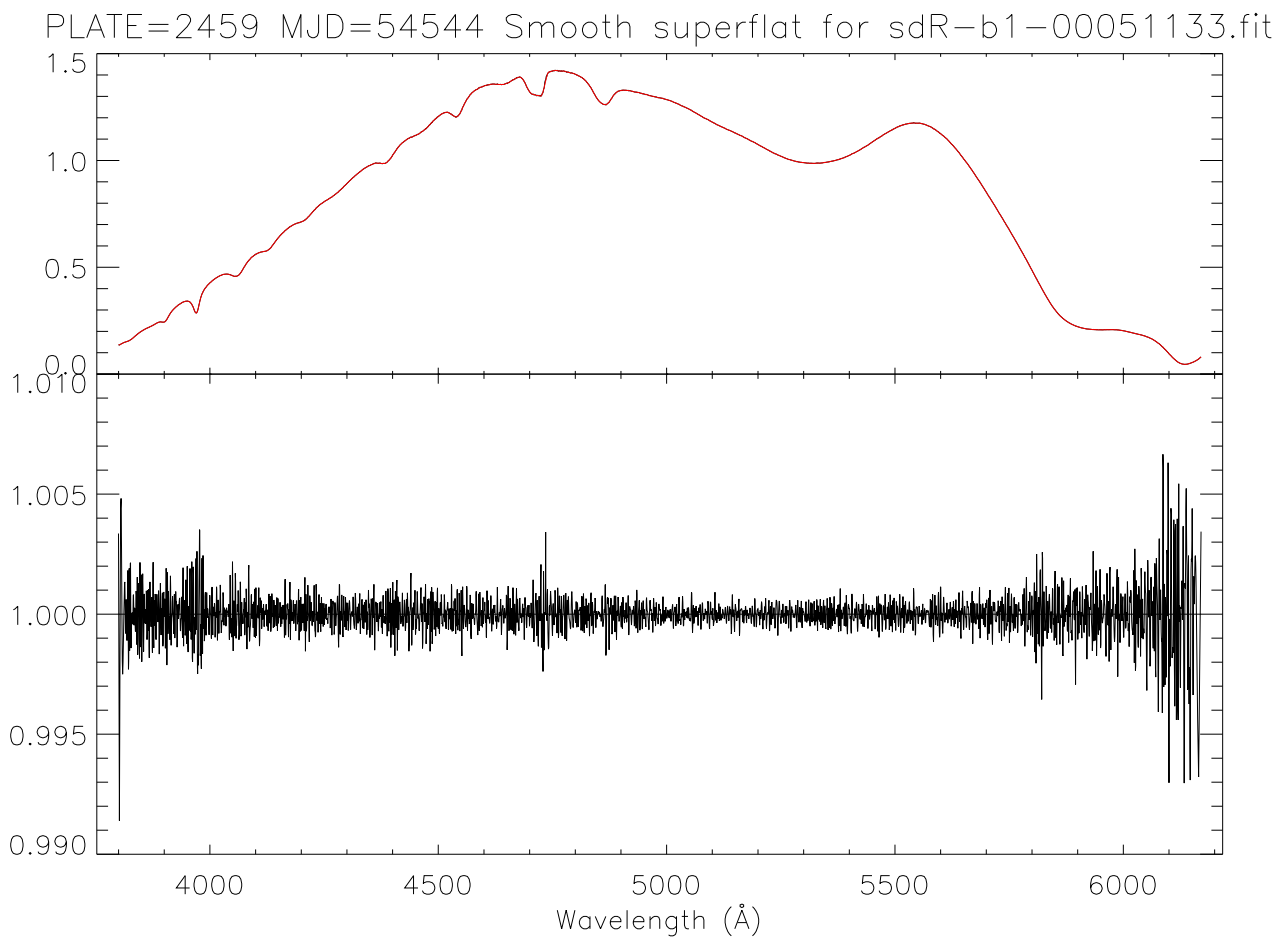

5889.9500
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

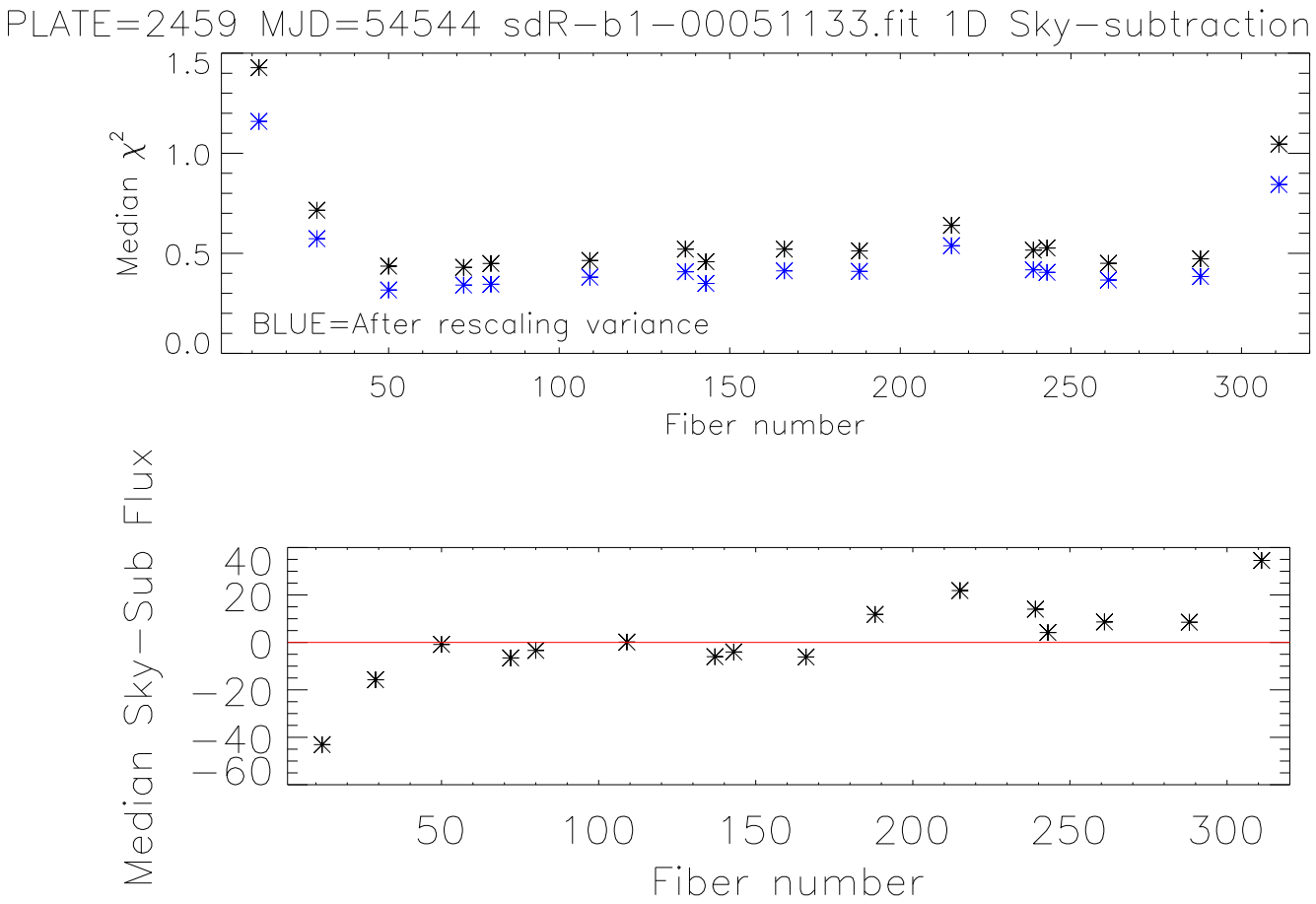

5895.9240
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

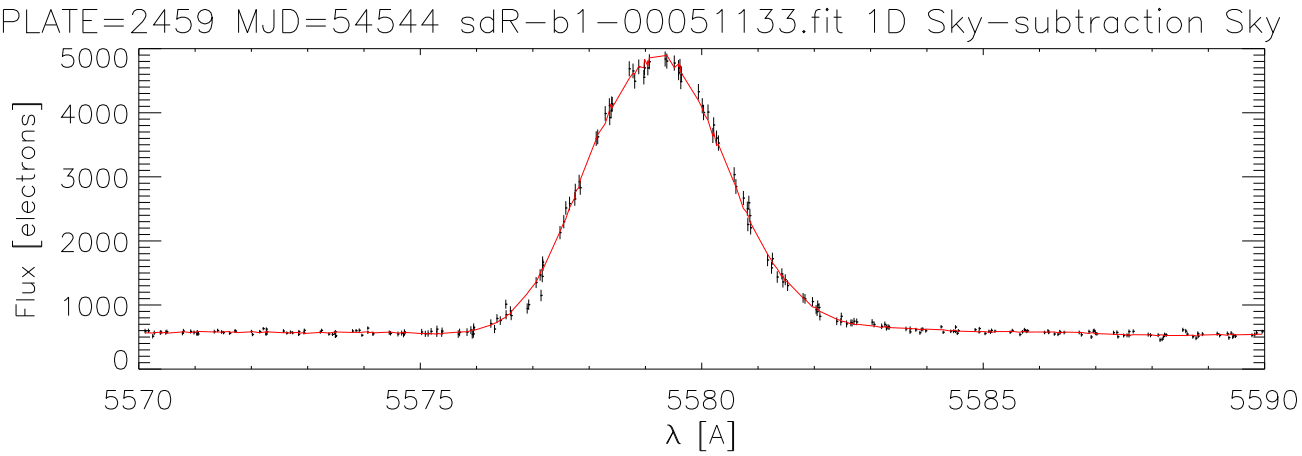

4046.5600
nfib1 16
nfib2 16
stdev 0.049
extra −0.92
4358.3300
nfib1 16
nfib2 16
stdev 0.036
extra −0.94
5460.9400
nfib1 16
nfib2 16
stdev 0.034
extra −0.92
5577.3390
nfib1 16
nfib2 16
stdev 0.021
extra −0.93
5889.9500
nfib1 16
nfib2 16
stdev 0.041
extra −0.85
5895.9240
nfib1 16
nfib2 16
stdev 0.039
extra −0.86
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

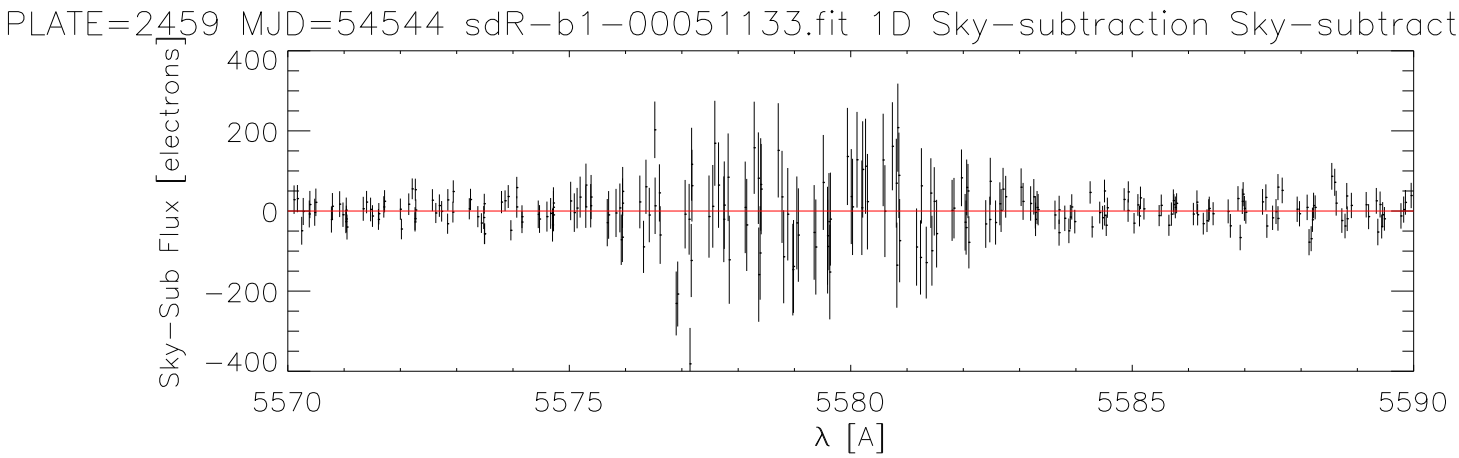

sky shift, pixels
−0.4
−0.6
−0.8
3500
4000
4500
5000
5500
6000
6500

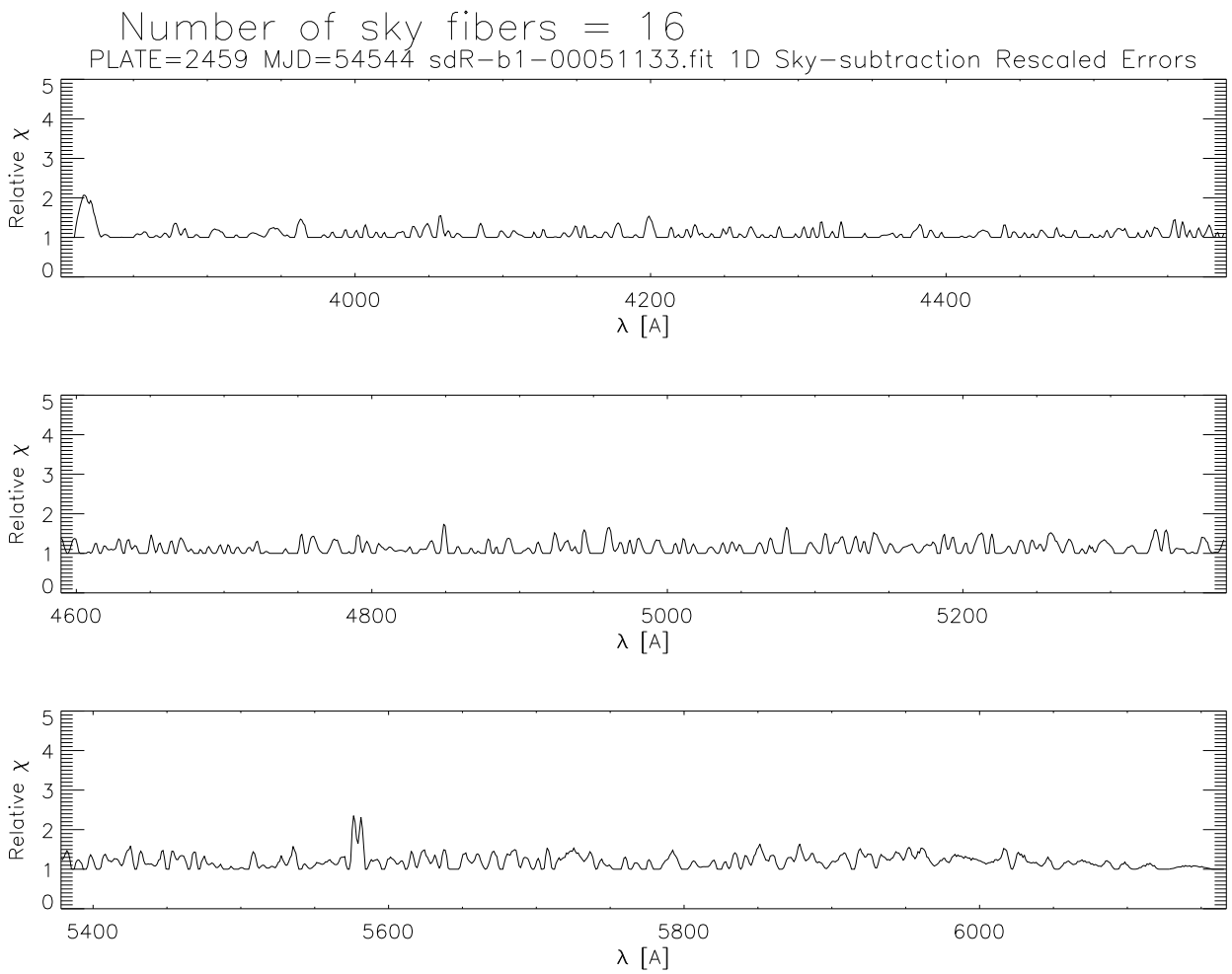
es= 0.0000

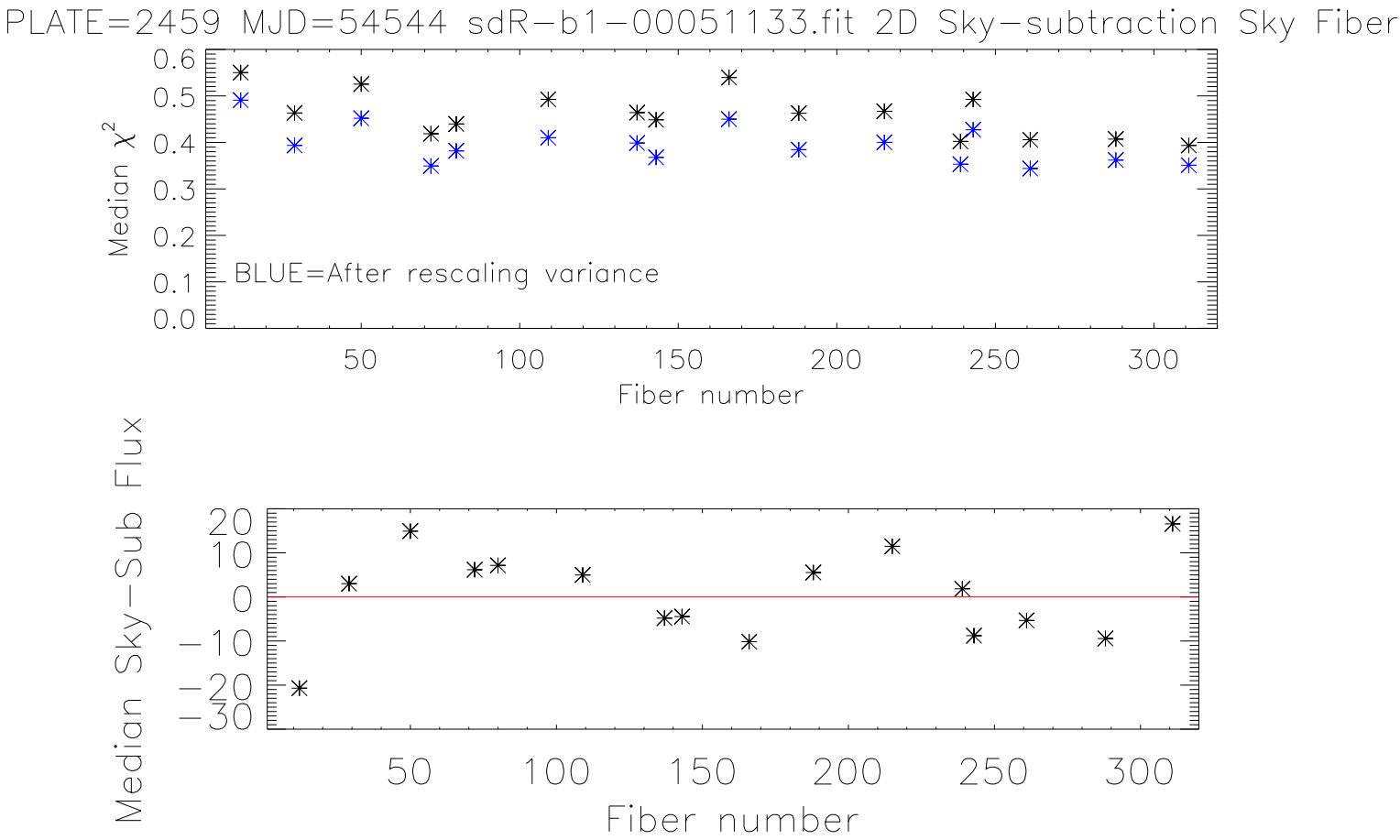

PLATE=2459 MJD=54544 Smooth superflat for sdR-b1-00051133.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

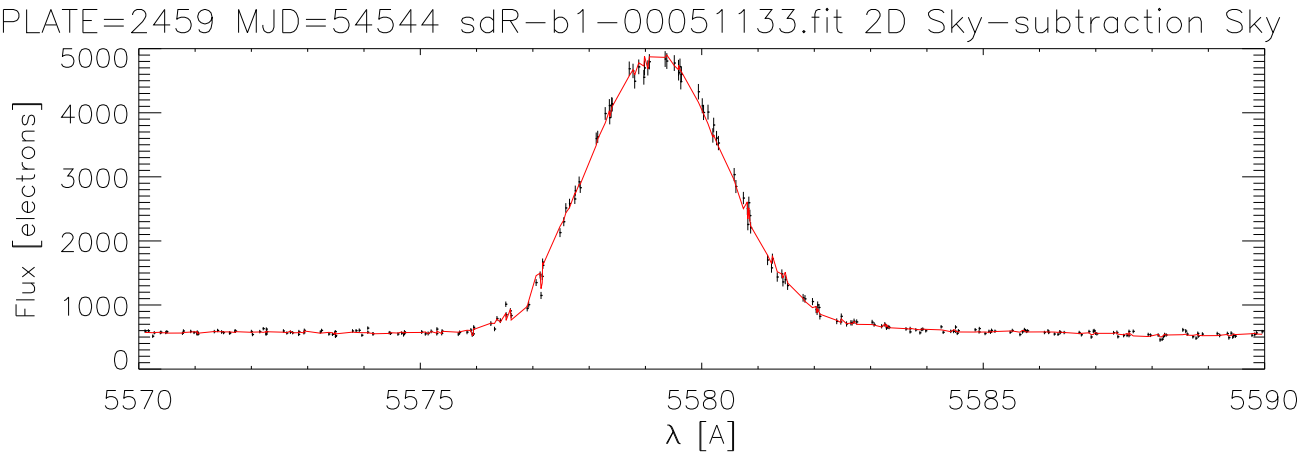

PLATE=2459 MJD=54544 sdR-b1-00051133.fit 1D Sky-subtraction Sky Fiber
Median χ^2
1.5
1.0
0.5
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
40
20
0
-20
-40
-60
50
100
150
200
250
300
Fiber number

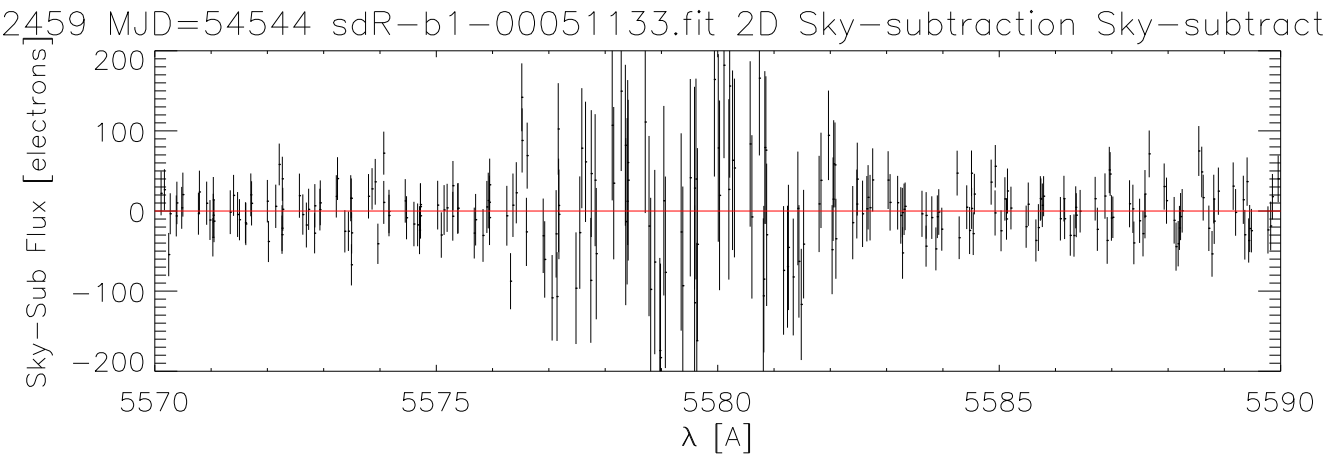

PLATE=2459 MJD=54544 sdR-b1-00051133.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

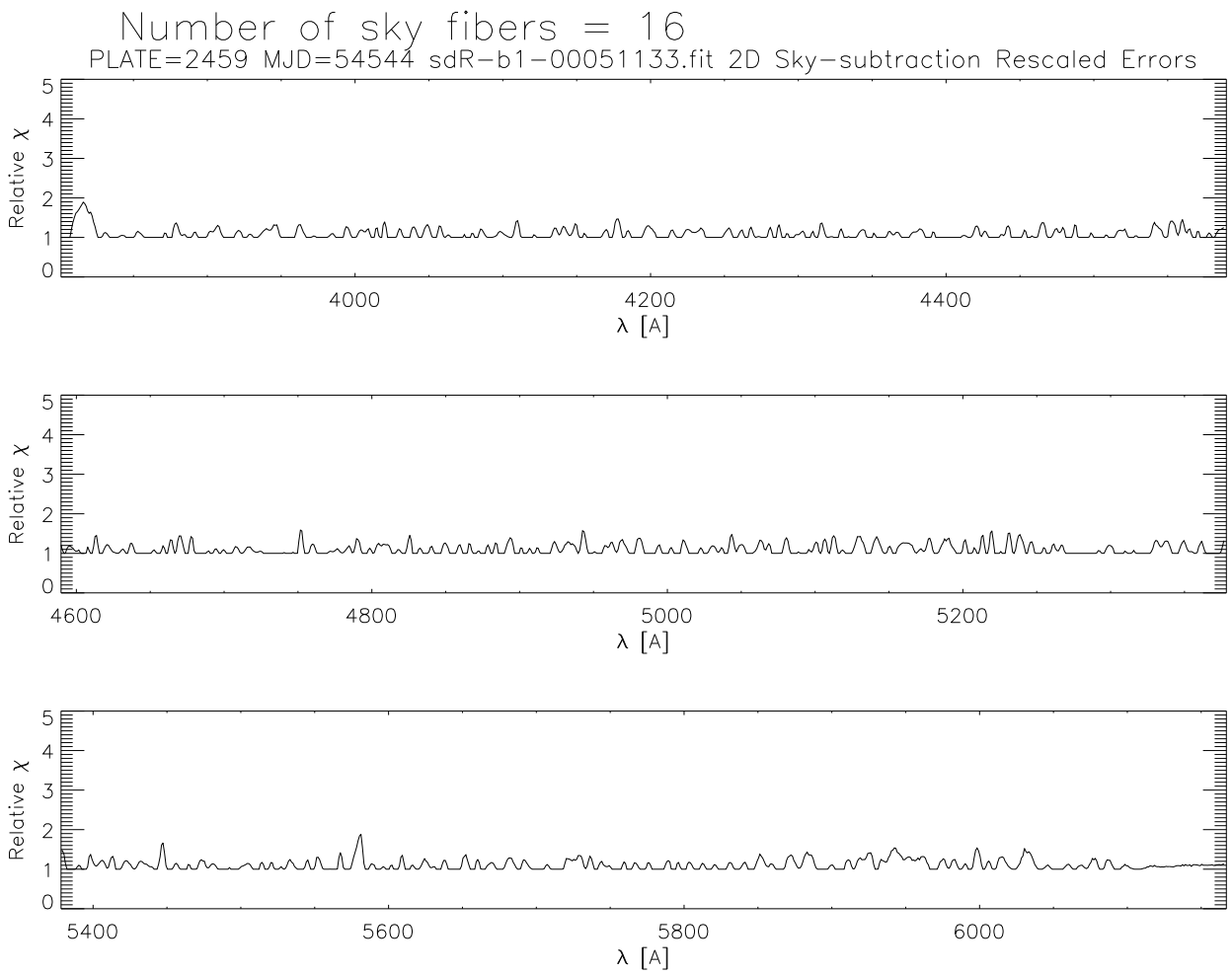

PLATE=2459 MJD=54544 sdR-b1-00051133.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

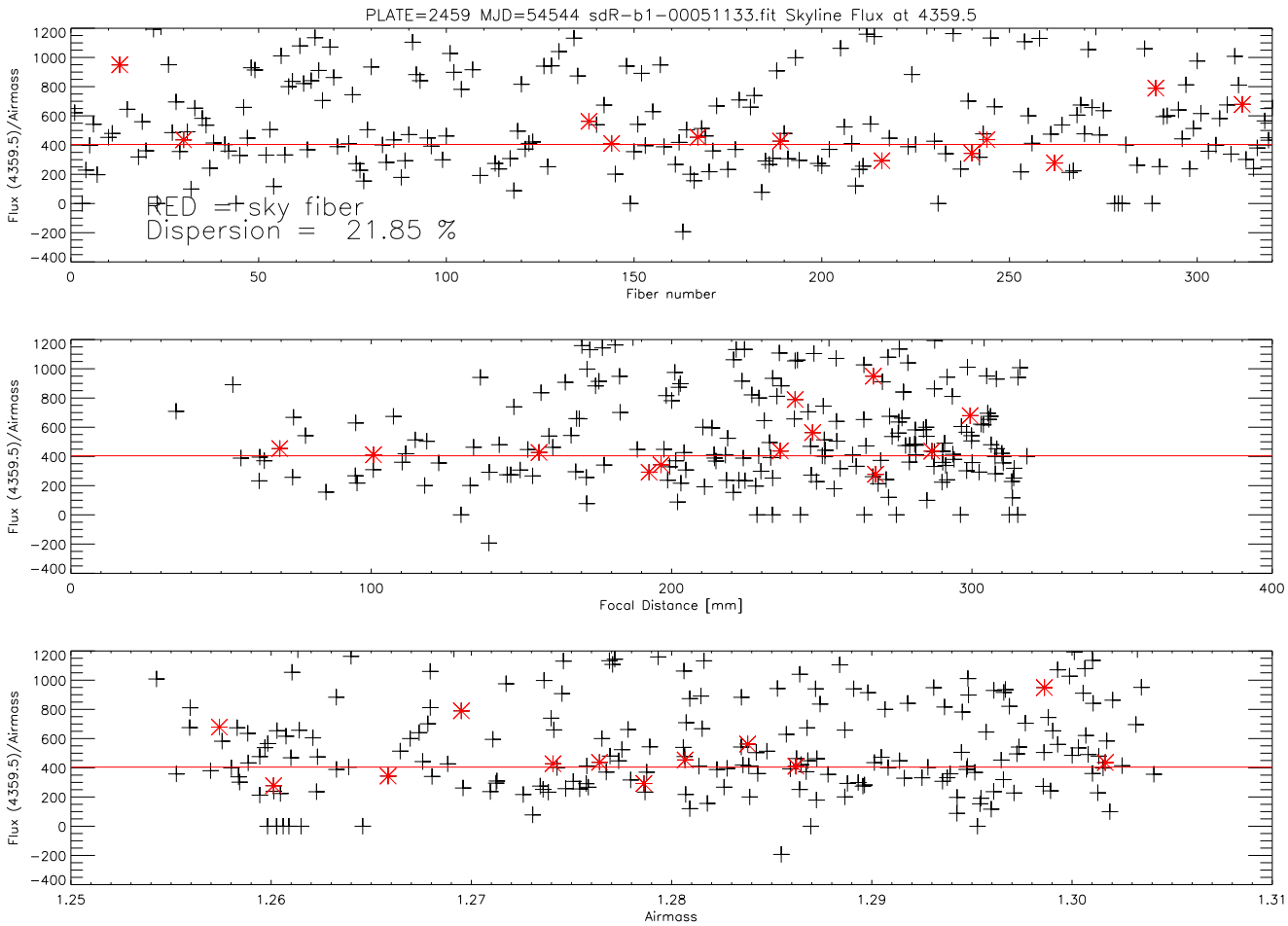

Number of sky fibers = 16
PLATE=2459 MJD=54544 sdR-b1-00051133.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

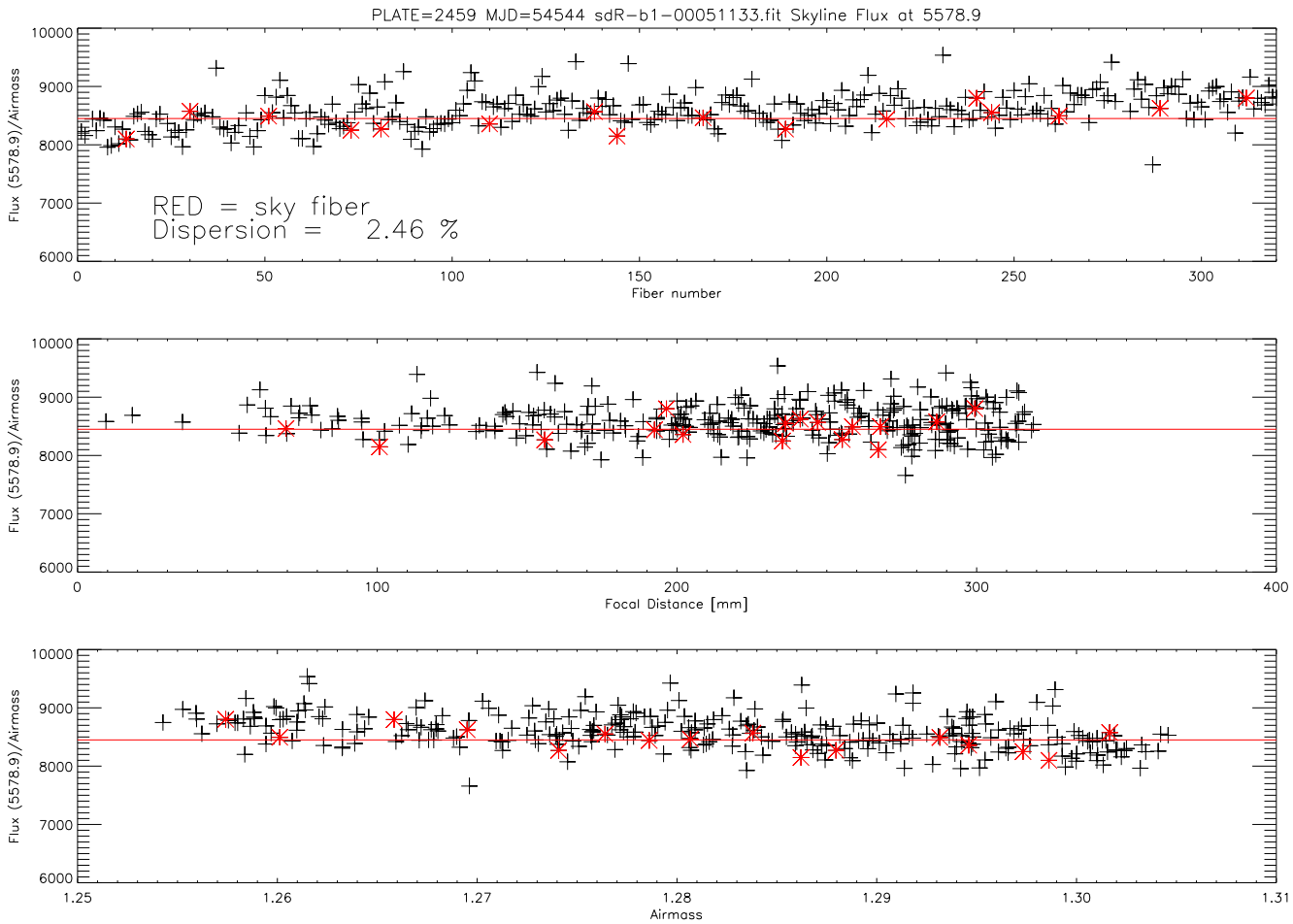

PLATE=2459 MJD=54544 sdR-b1-00051133.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
10
0
-10
-20
-30
50
100
150
200
250
300
Fiber number

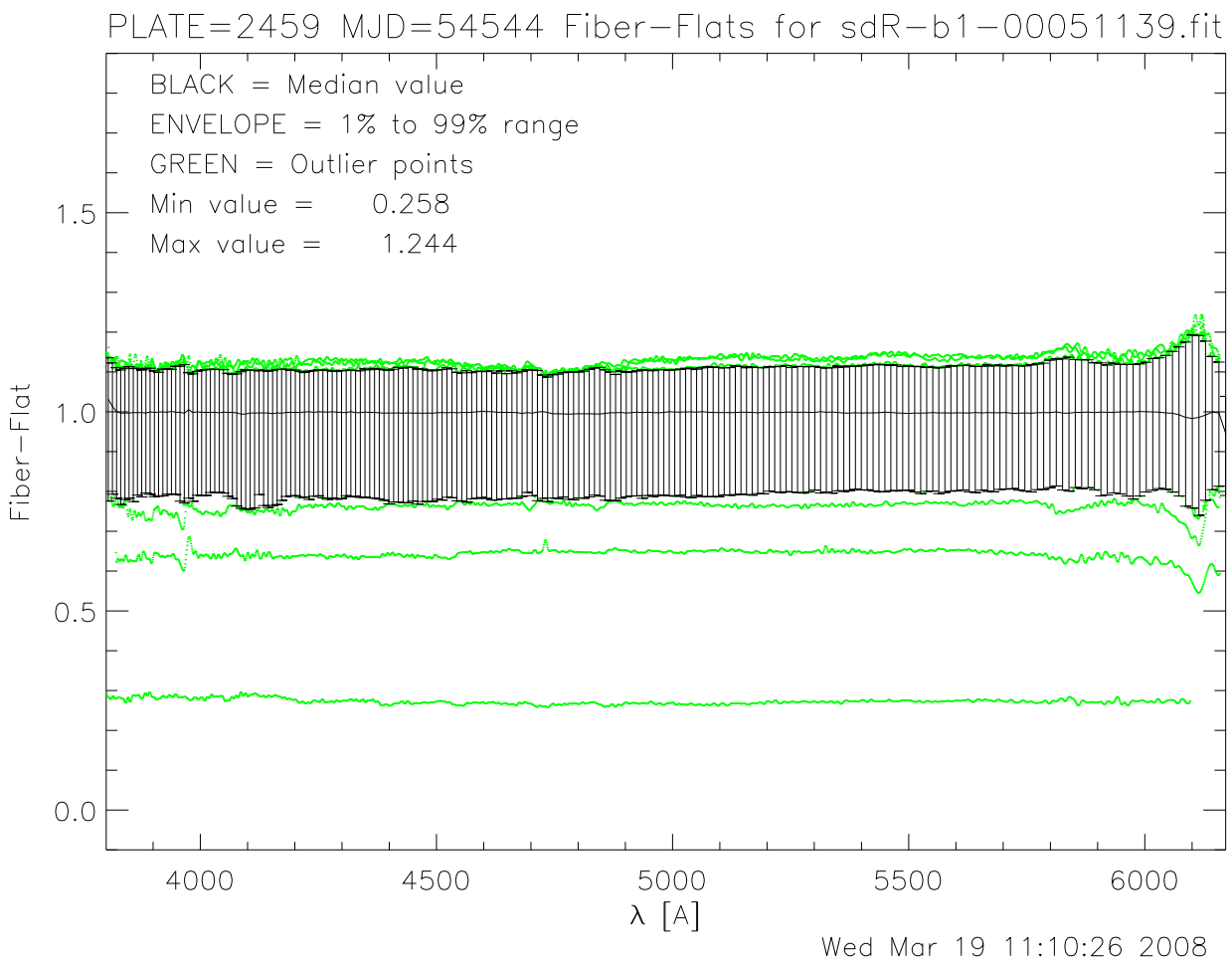

PLATE=2459 MJD=54544 sdR-b1-00051133.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

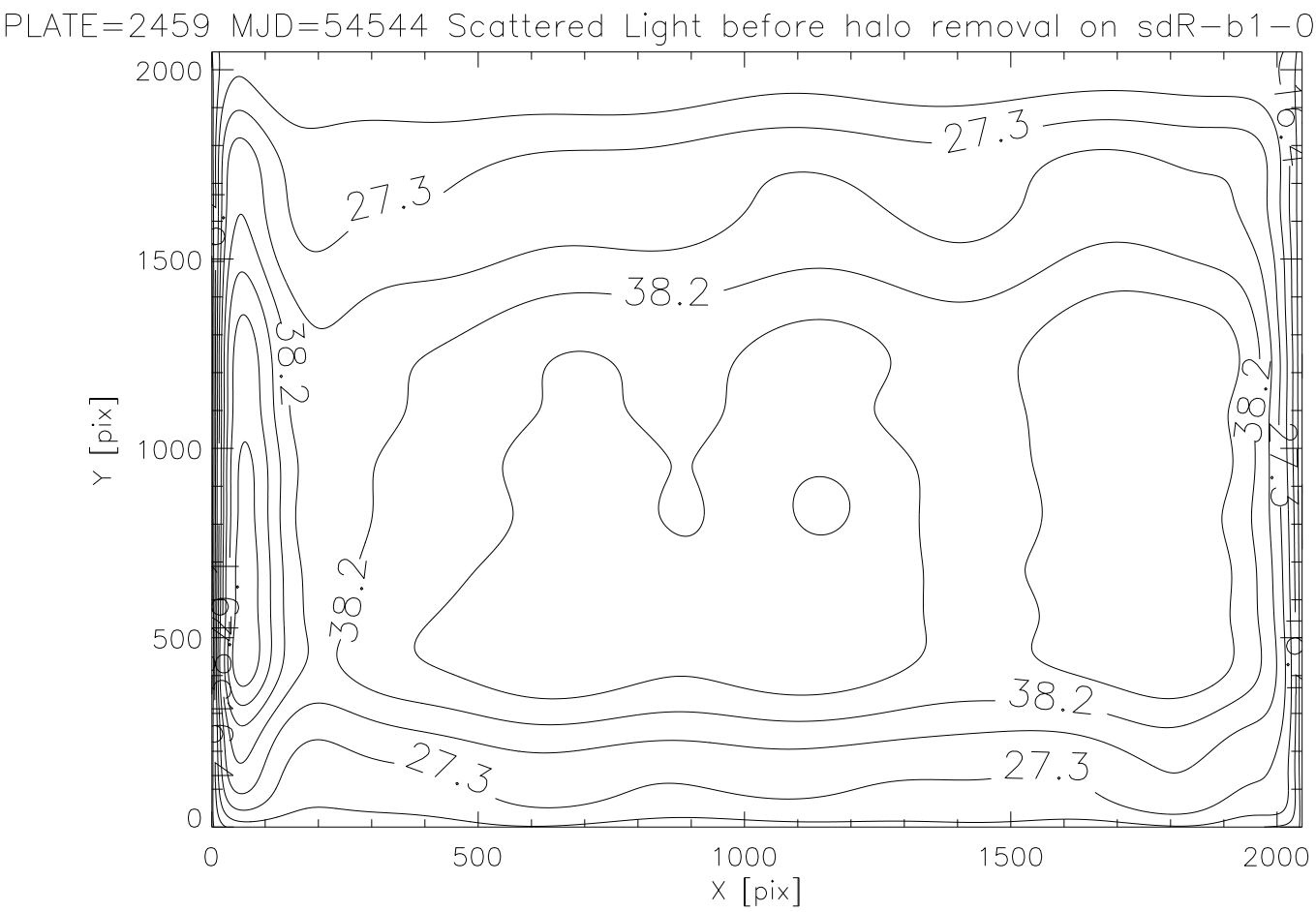

PLATE=2459 MJD=54544 sdR-b1-00051133.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

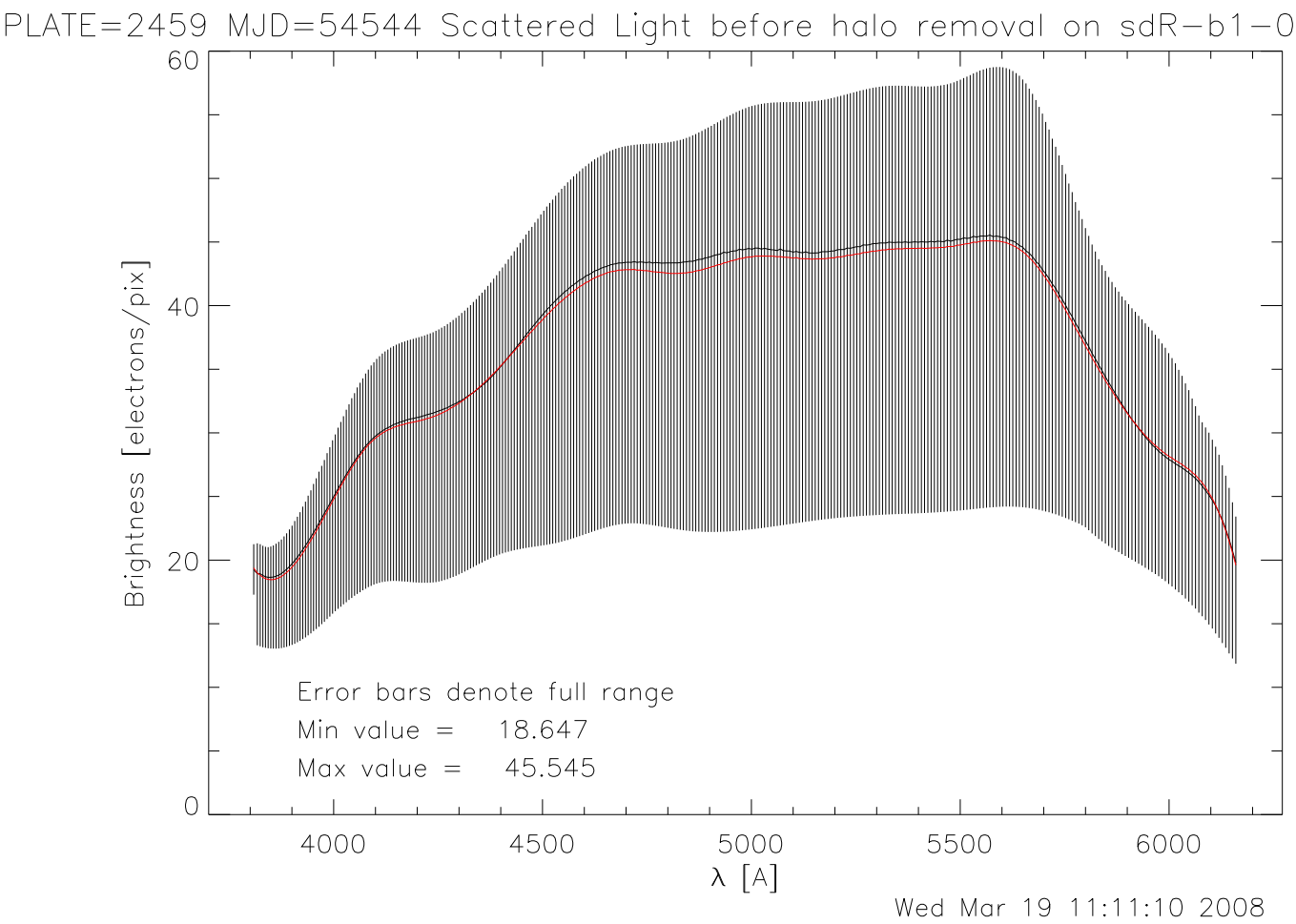

Number of sky fibers = 16
PLATE=2459 MJD=54544 sdR-b1-00051133.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

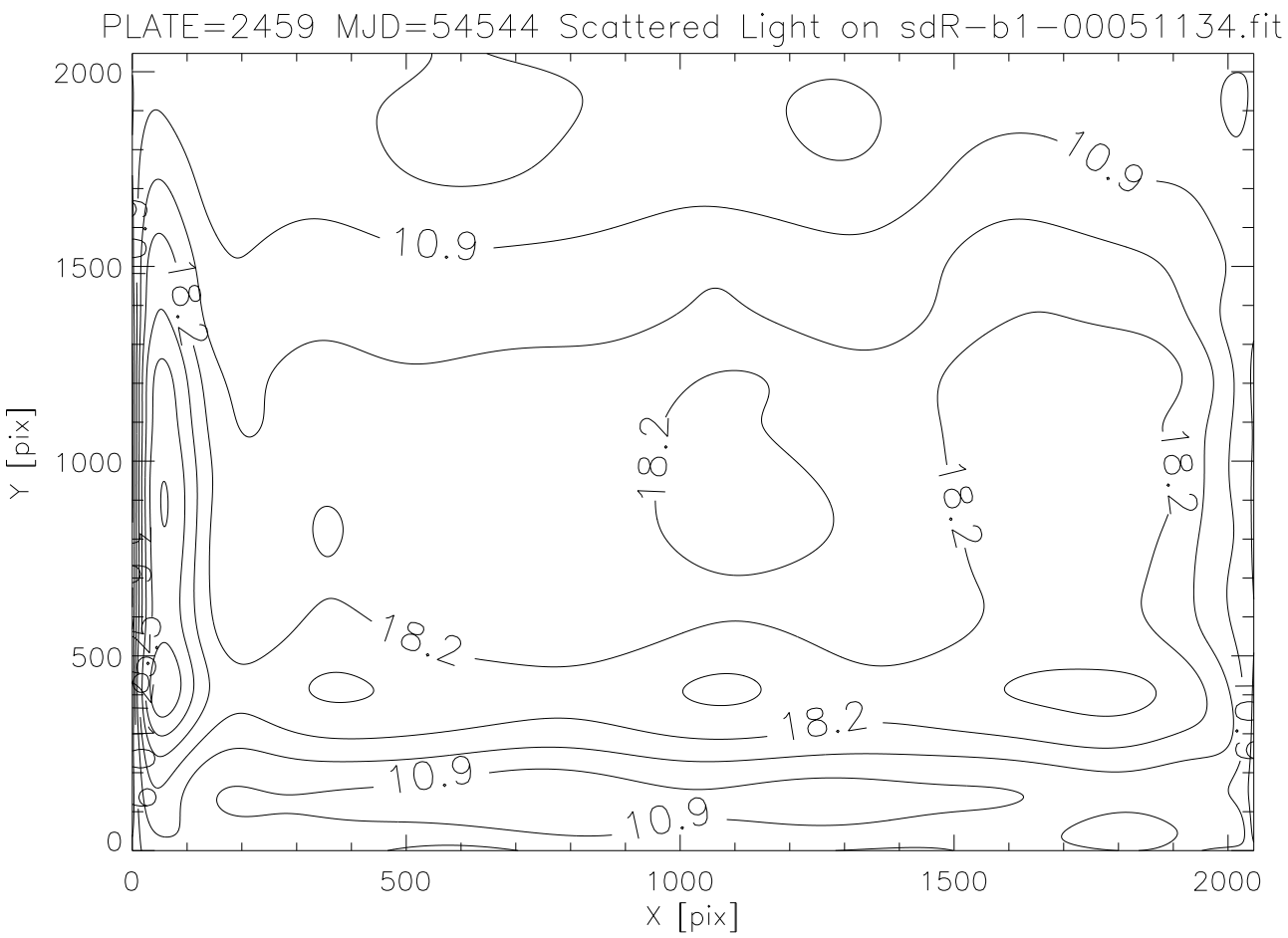

PLATE=2459 MJD=54544 sdR-b1-00051133.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 21.85 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

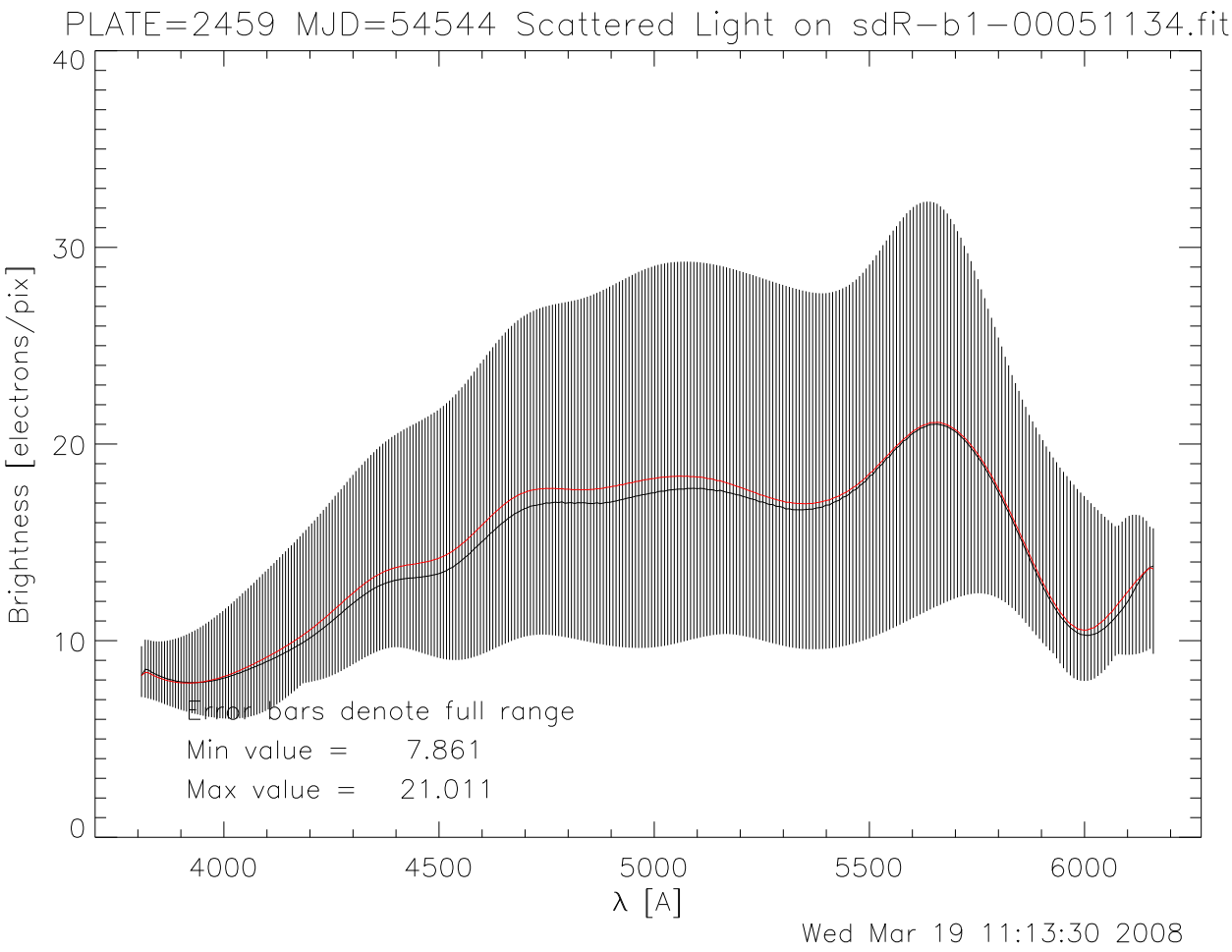

PLATE=2459 MJD=54544 sdR-b1-00051133.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.46 %
Fiber number
Focal Distance [mm]
Airmass

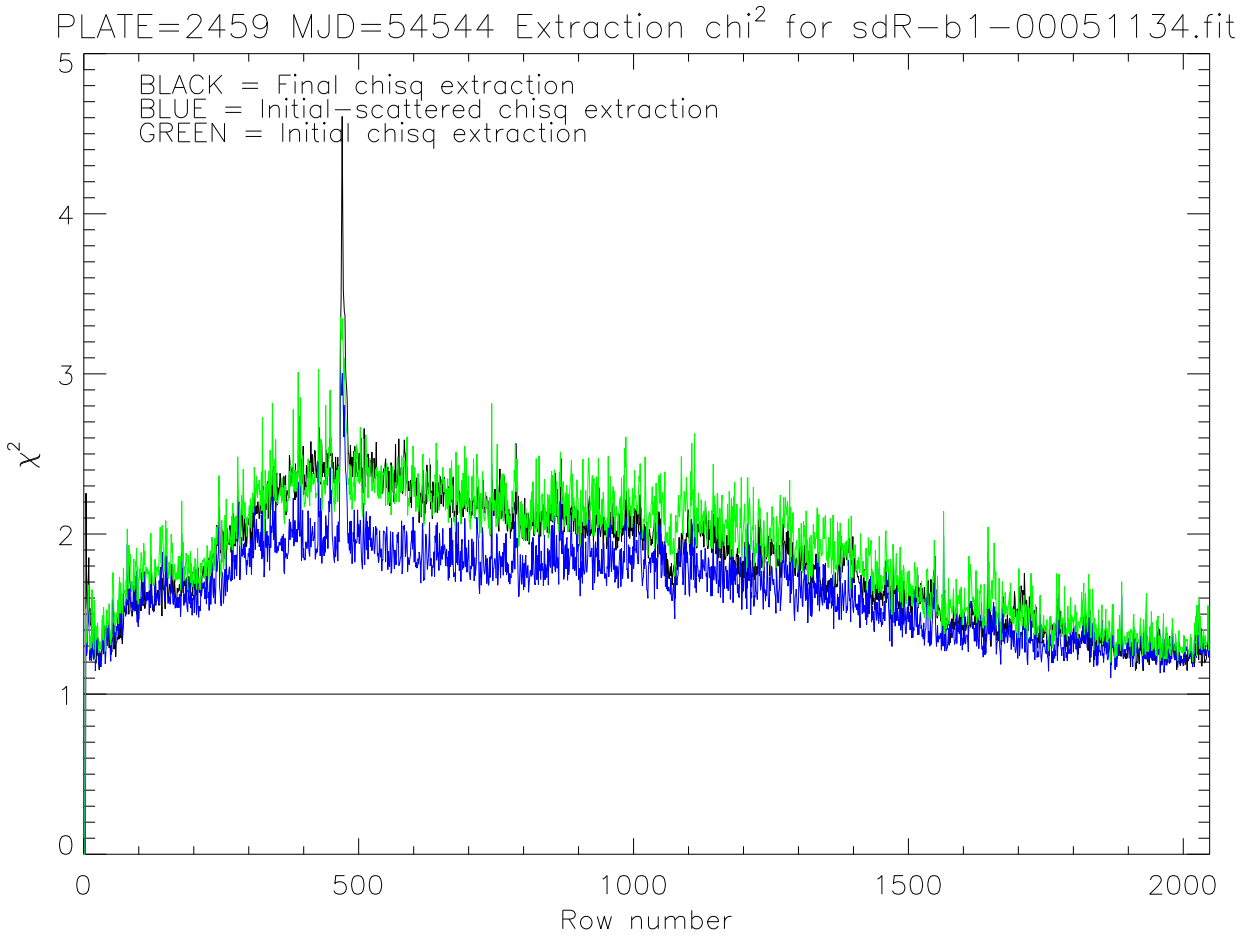

PLATE=2459 MJD=54544 Fiber−Flats for sdR−b1−00051139.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.258
Max value = 1.244
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 19 11:10:26 2008

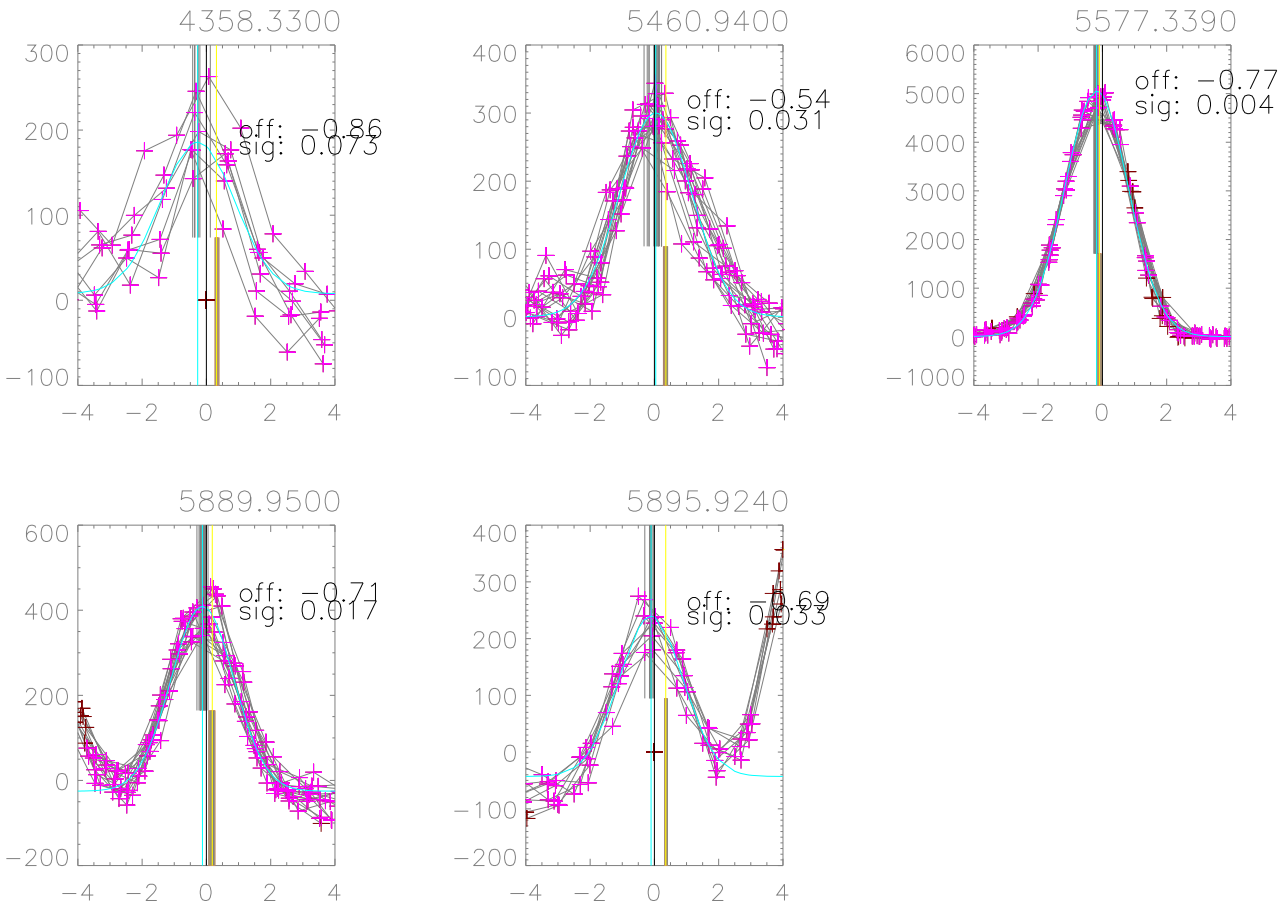

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR−b1−00051134.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
27.3
38.2

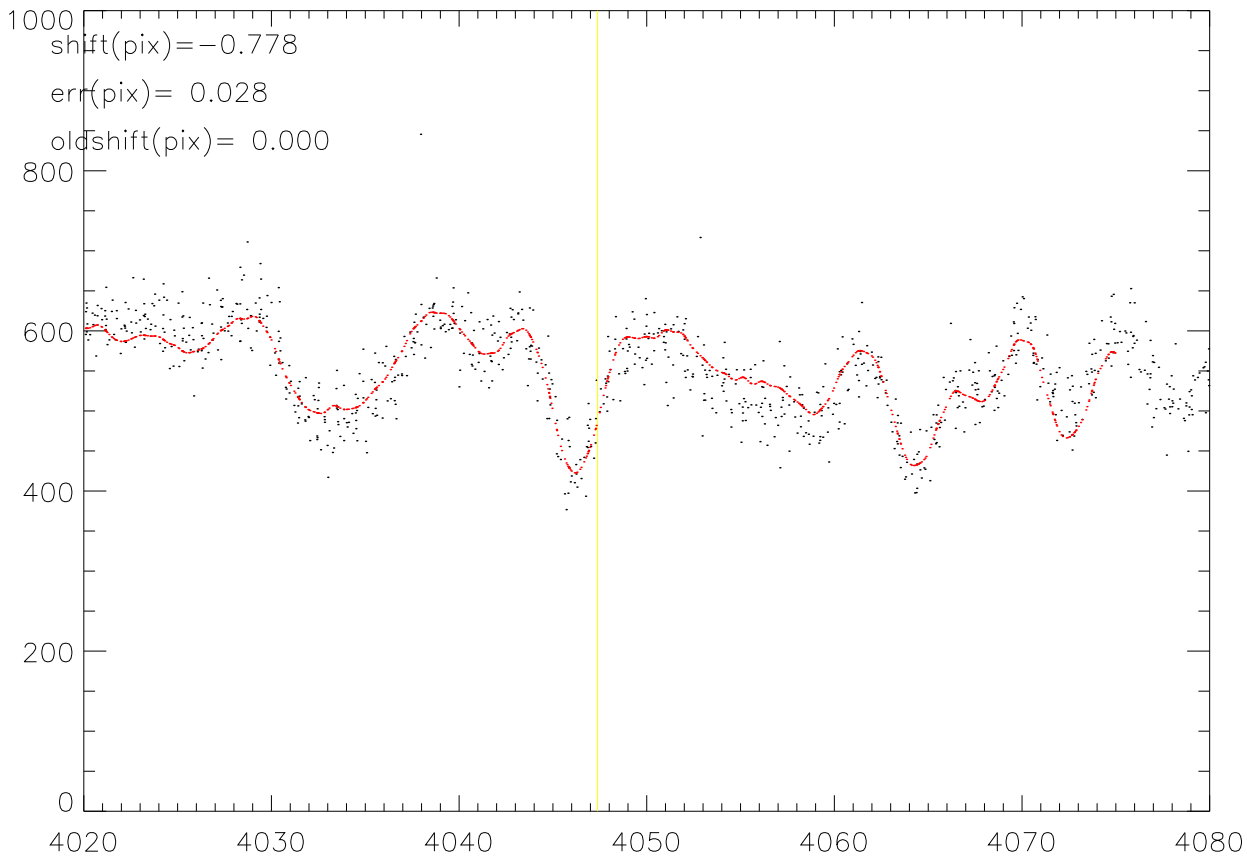

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR−b1−00051134.f
Brightness [electrons/pix]
60
40
20
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 18.647
Max value = 45.545
Wed Mar 19 11:11:10 2008

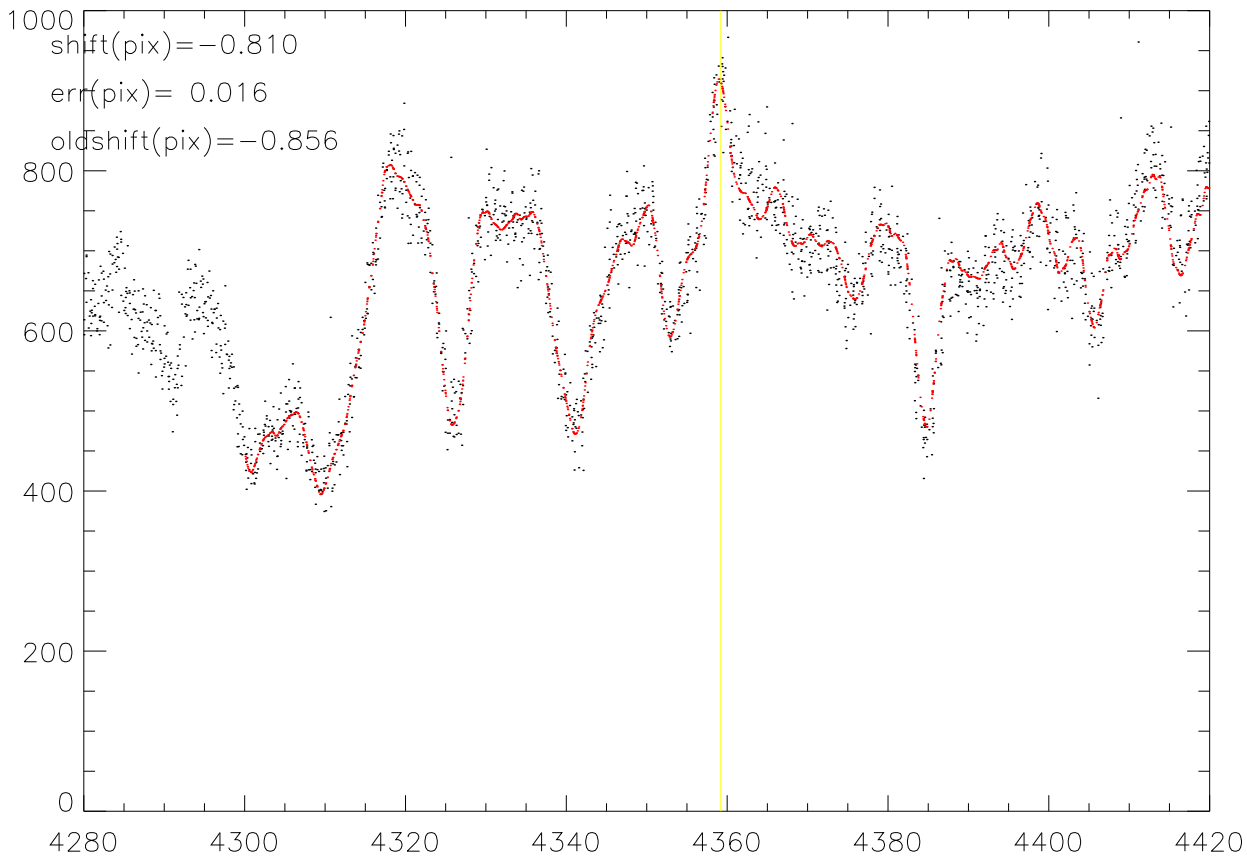

PLATE=2459 MJD=54544 Scattered Light on sdR-b1-00051134.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
10.9
18.2

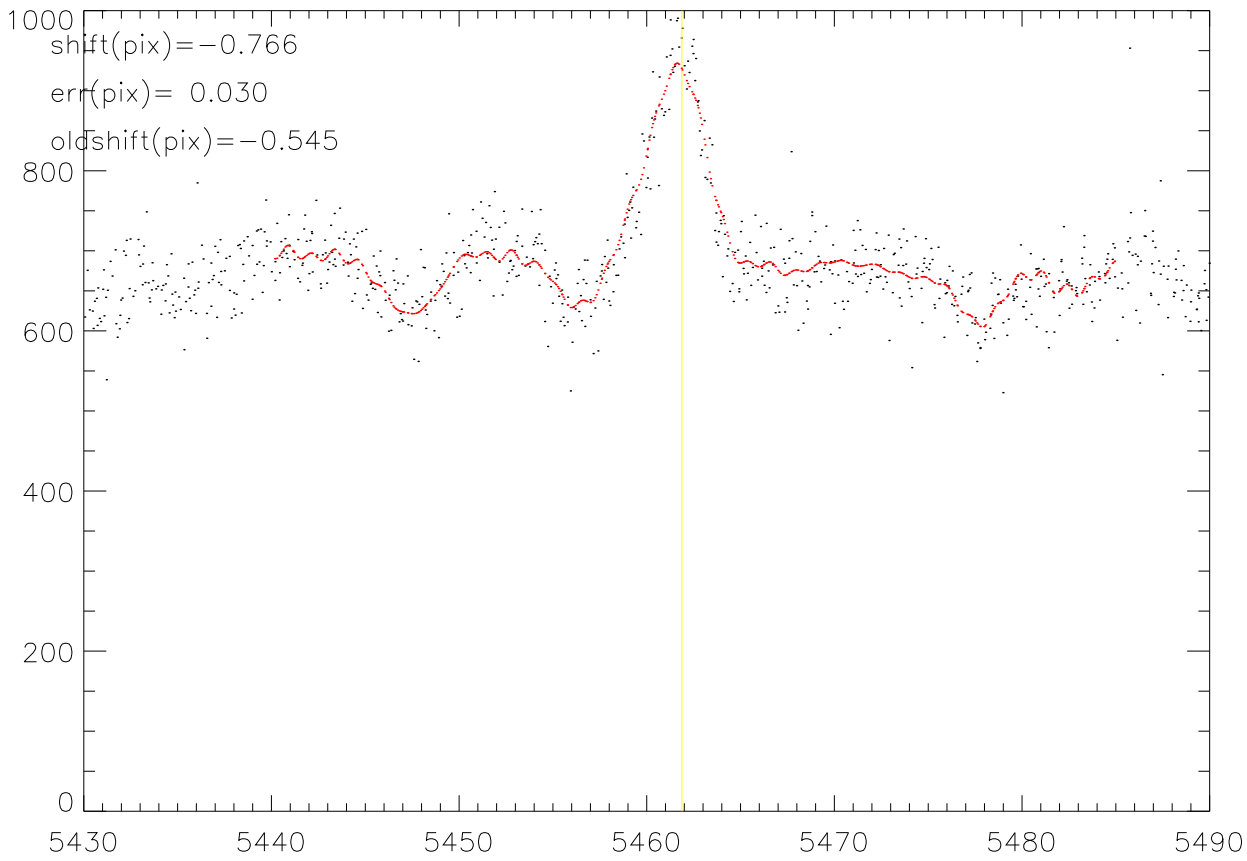

PLATE=2459 MJD=54544 Scattered Light on sdR-b1-00051134.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.861
Max value = 21.011
Wed Mar 19 11:13:30 2008

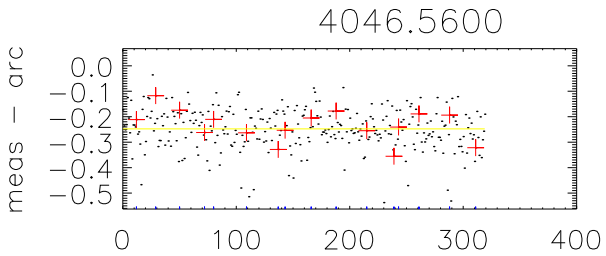

PLATE=2459 MJD=54544 Extraction chi^2 for sdR-b1-00051134.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
0
500
1000
1500
2000

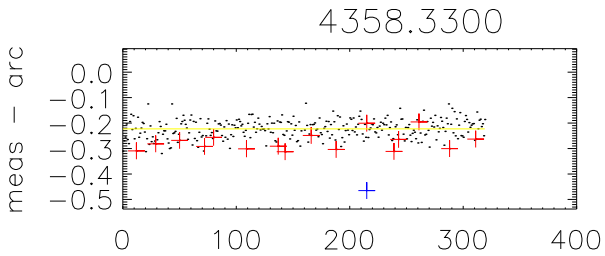

4358.3300
off: −0.86
sig: 0.073
5460.9400
off: −0.54
sig: 0.031
5577.3390
off: −0.77
sig: 0.004
5889.9500
off: −0.71
sig: 0.017
5895.9240
off: −0.69
sig: 0.033

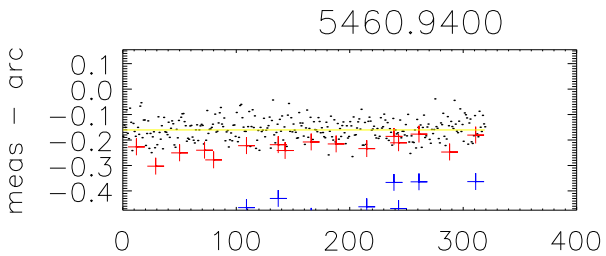

shift(pix)=−0.778
err(pix)= 0.028
oldshift(pix)= 0.000
1000
800
600
400
200
0
4020
4030
4040
4050
4060
4070
4080

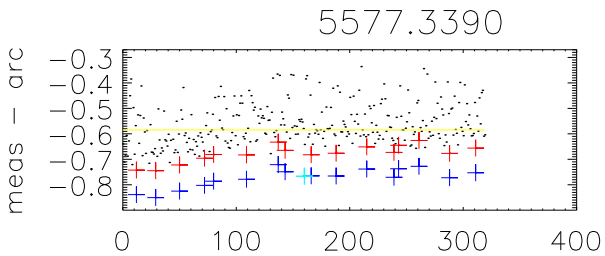

shift(pix)=−0.810
err(pix)= 0.016
oldshift(pix)=−0.856
1000
800
600
400
200
0
4280
4300
4320
4340
4360
4380
4400
4420

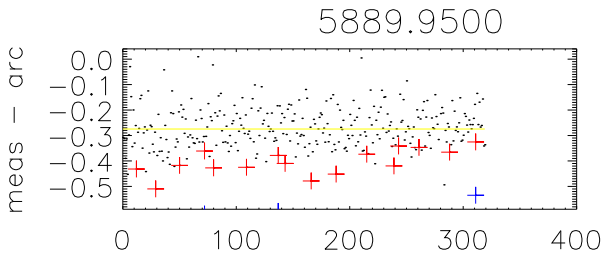

shift(pix)=−0.766
err(pix)= 0.030
oldshift(pix)=−0.545
1000
800
600
400
200
0
5430
5440
5450
5460
5470
5480
5490

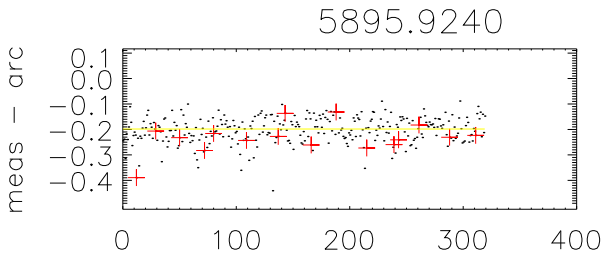

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

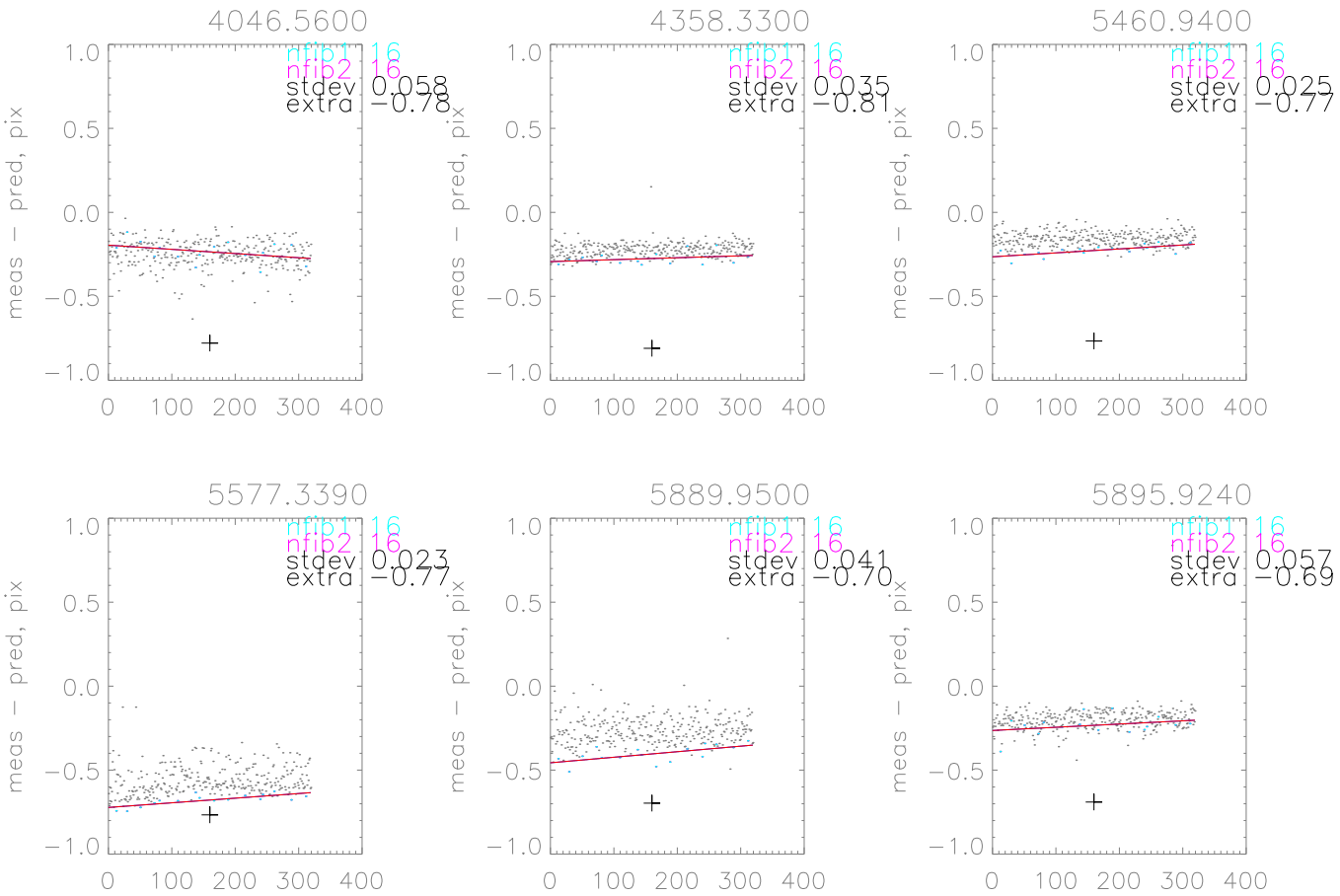

4358.3300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

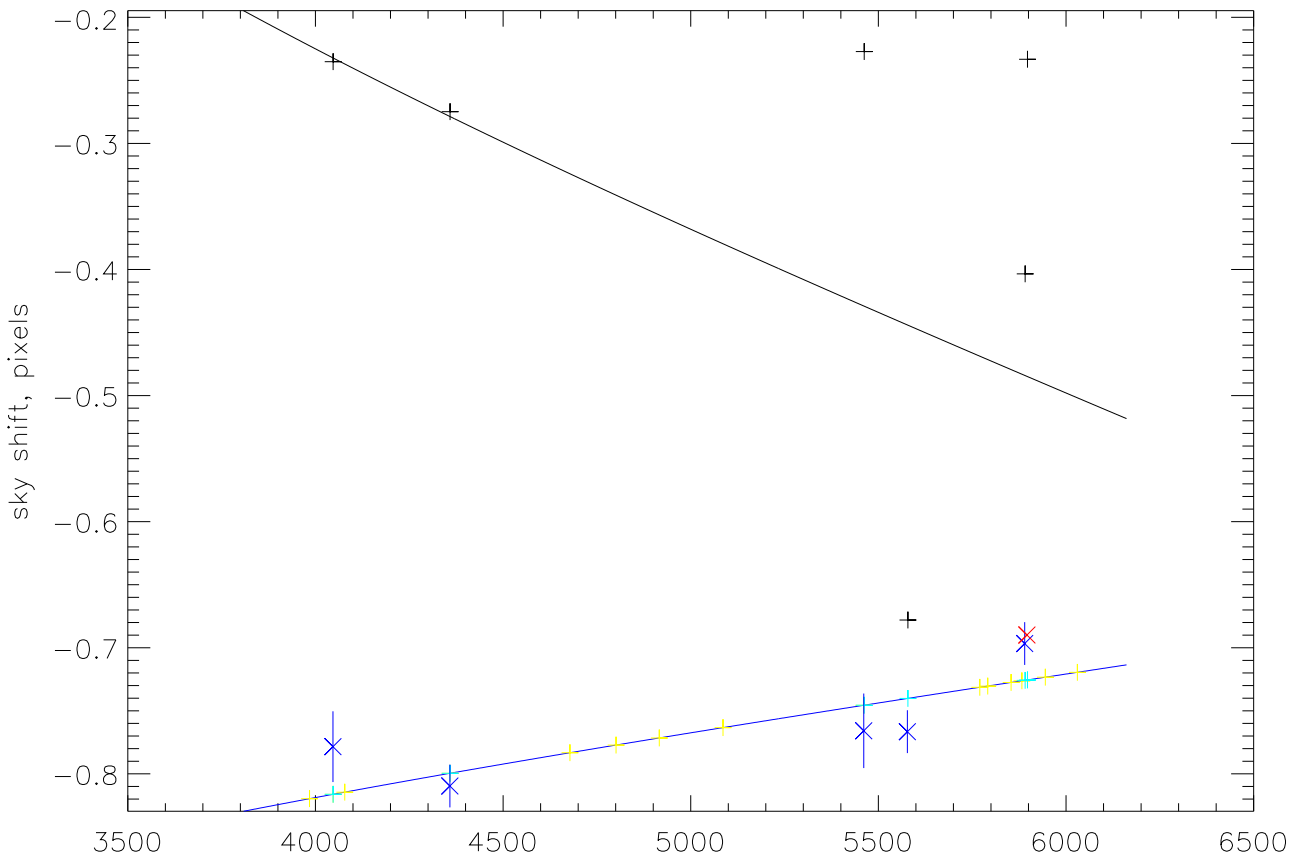

5460.9400
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


5577.3390
meas − arc
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
0
100
200
300
400

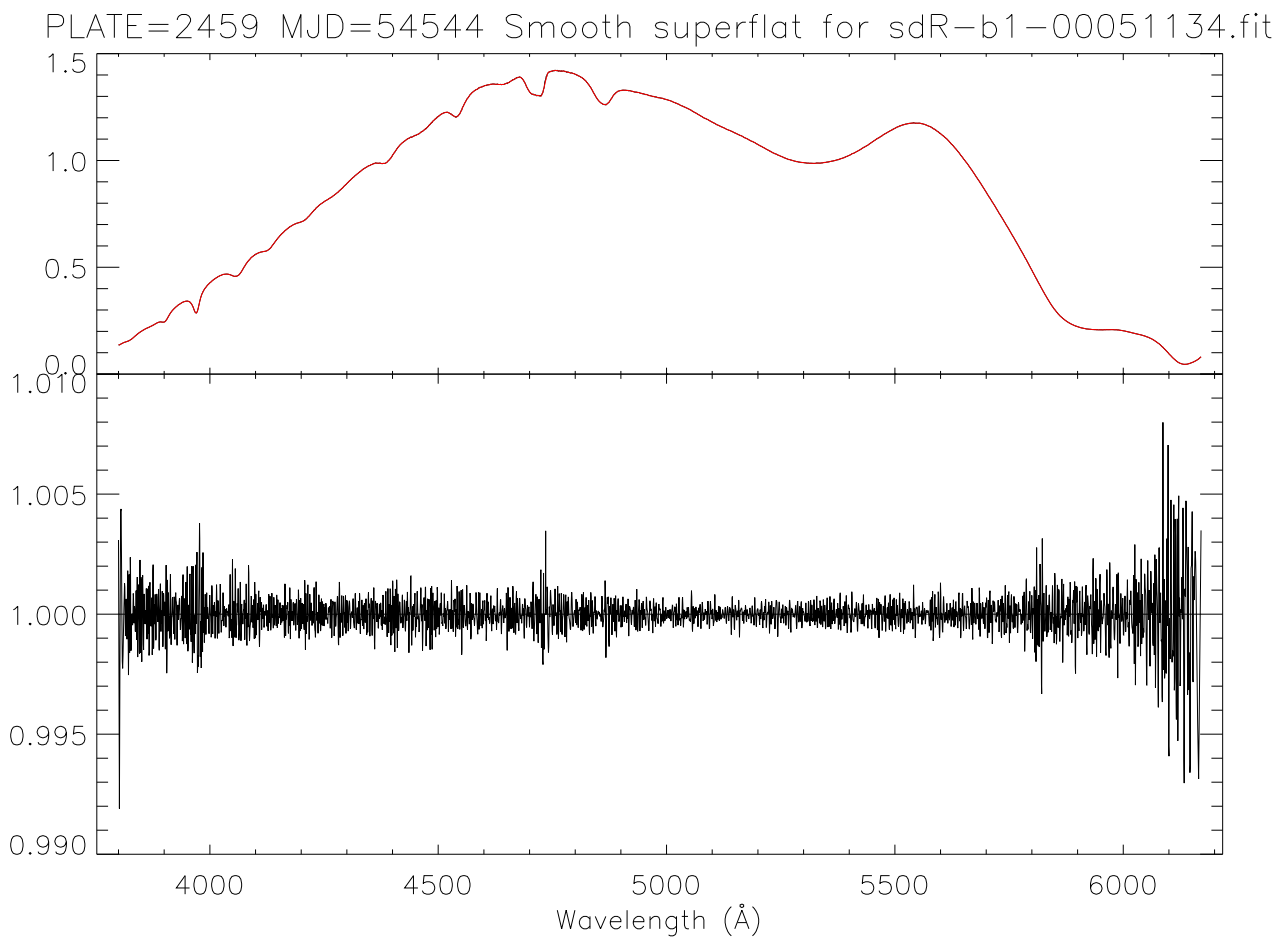

5889.9500
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

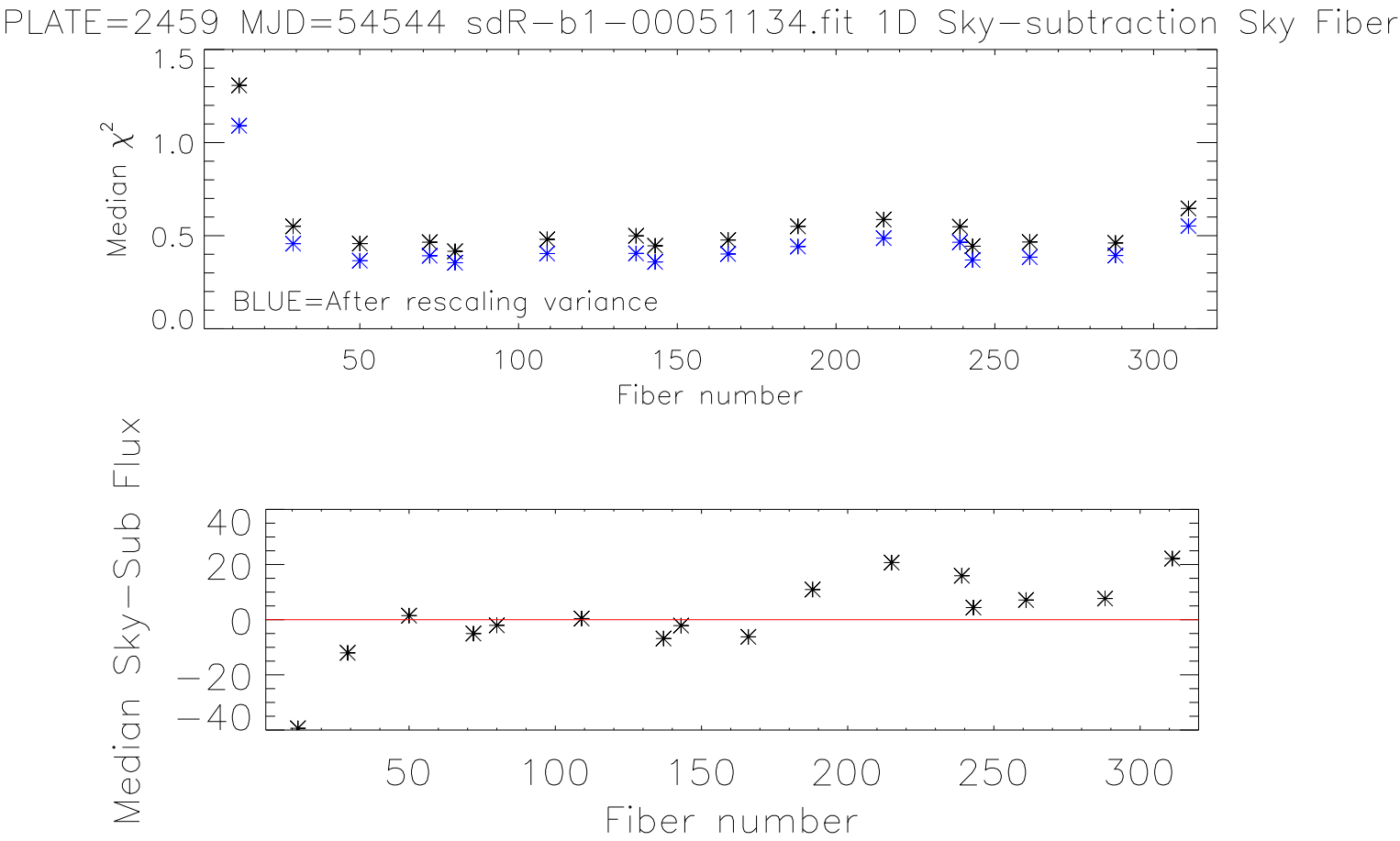

5895.9240
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

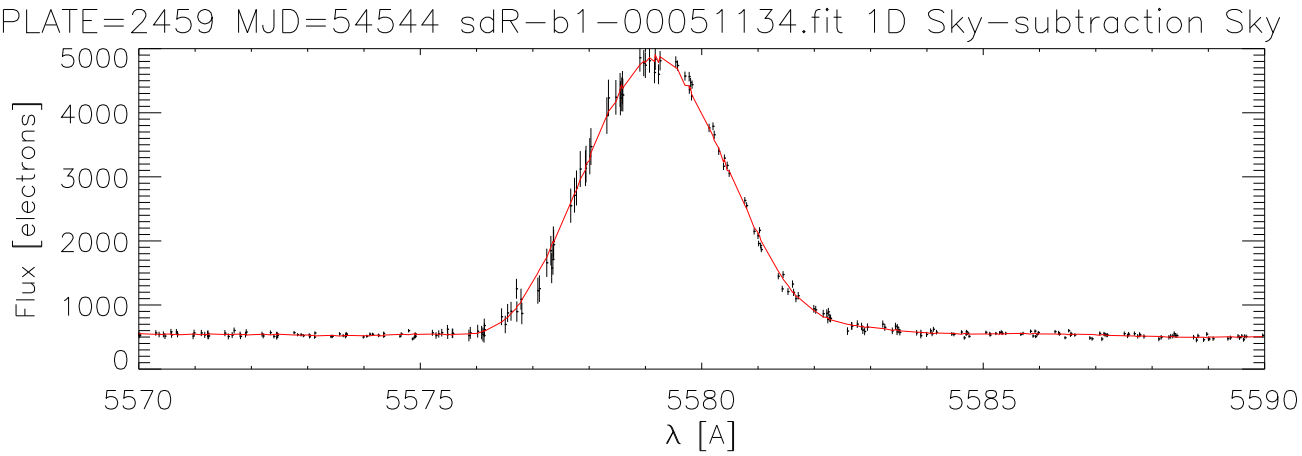

4046.5600
nfib1 16
nfib2 16
stdev 0.058
extra −0.78
4358.3300
nfib1 16
nfib2 16
stdev 0.035
extra −0.81
5460.9400
nfib1 16
nfib2 16
stdev 0.025
extra −0.77
5577.3390
nfib1 16
nfib2 16
stdev 0.023
extra −0.77
5889.9500
nfib1 16
nfib2 16
stdev 0.041
extra −0.70
5895.9240
nfib1 16
nfib2 16
stdev 0.057
extra −0.69
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

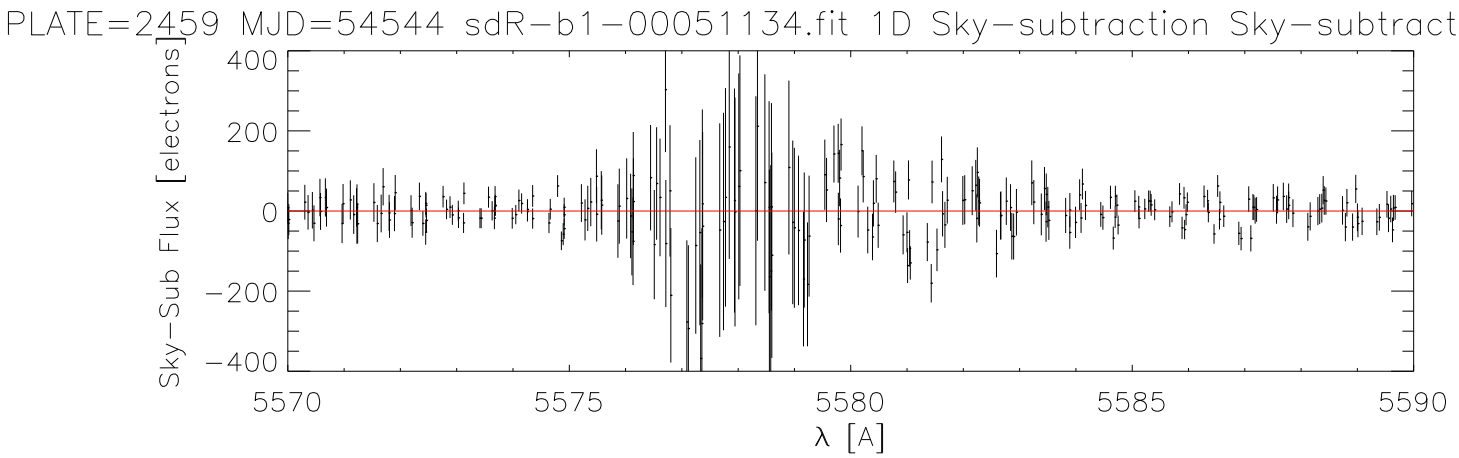

−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

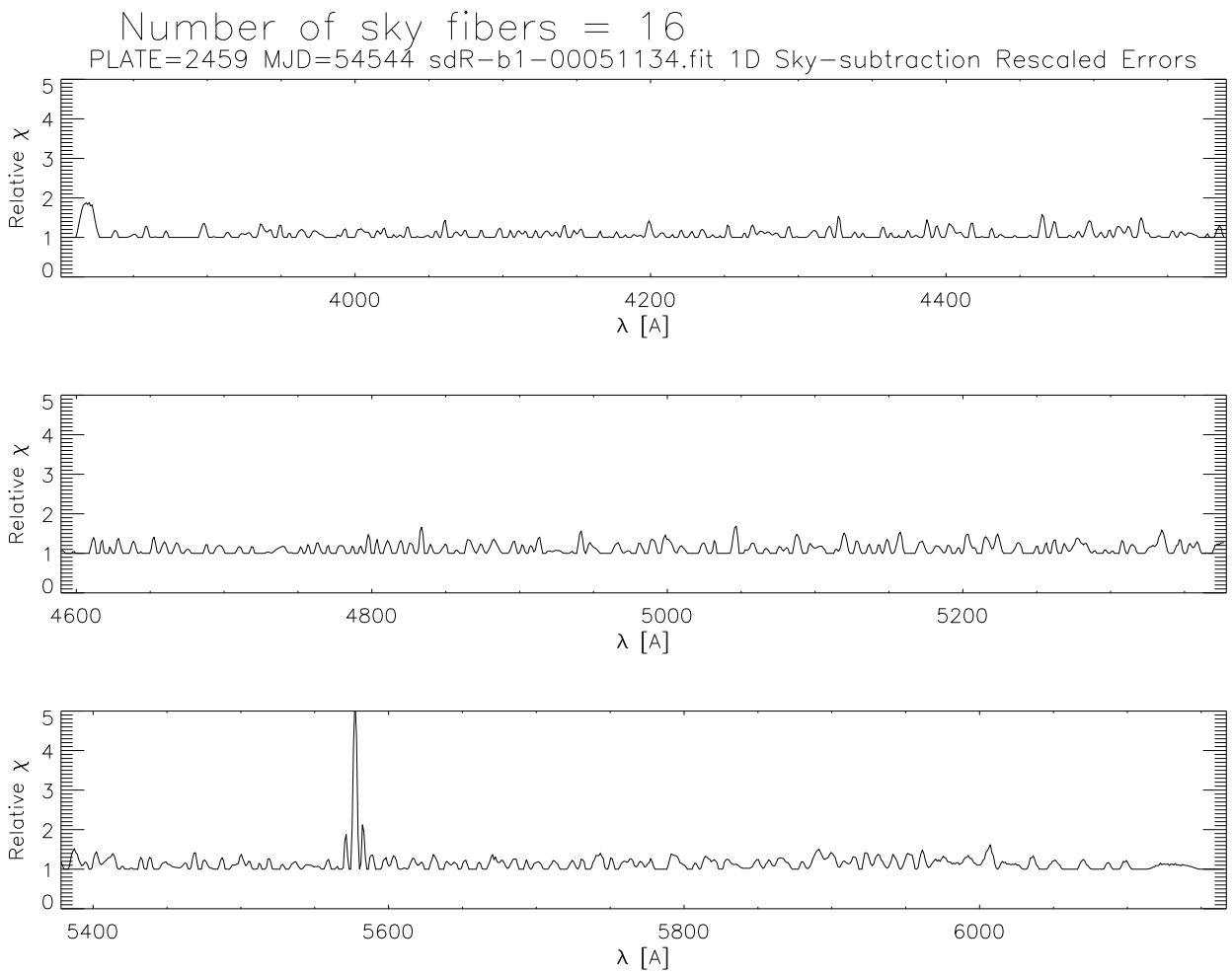
es= 0.0000

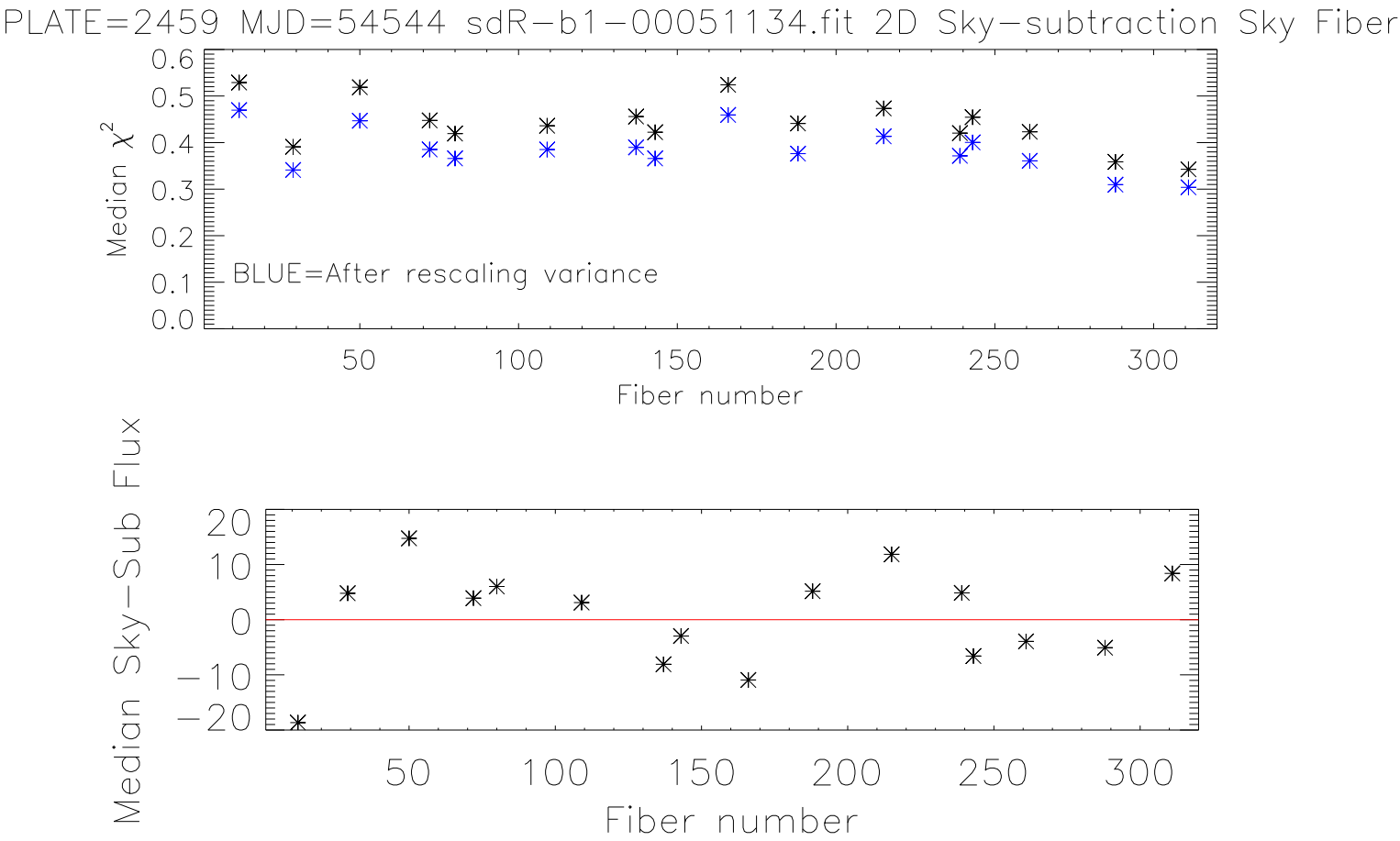

PLATE=2459 MJD=54544 Smooth superflat for sdR-b1-00051134.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

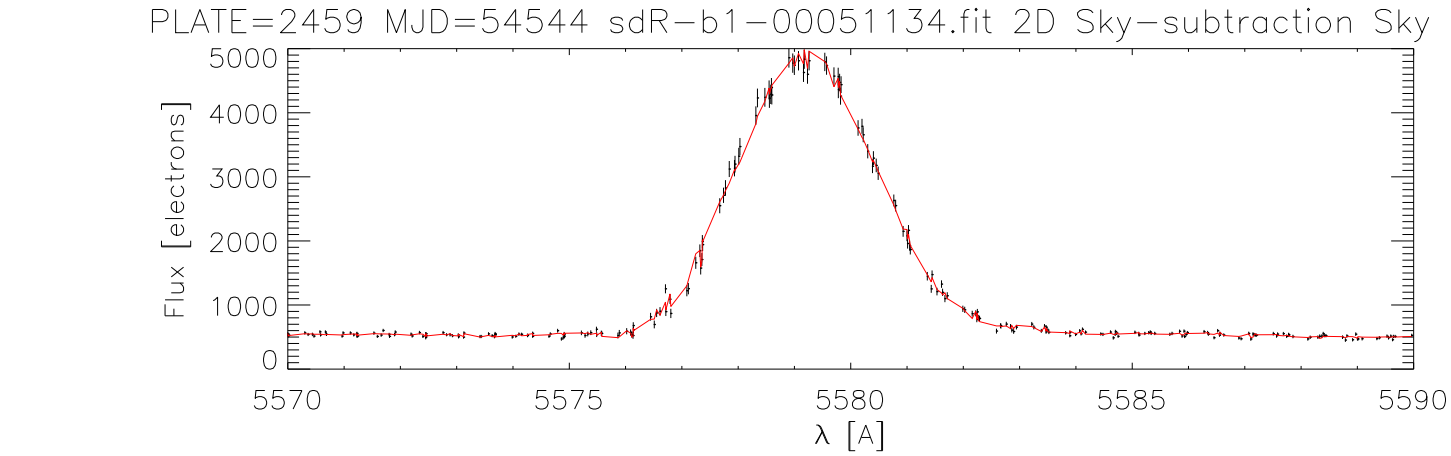

PLATE=2459 MJD=54544 sdR-b1-00051134.fit 1D Sky-subtraction Sky Fiber
Median χ^2
1.5
1.0
0.5
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
40
20
0
-20
-40
50
100
150
200
250
300
Fiber number

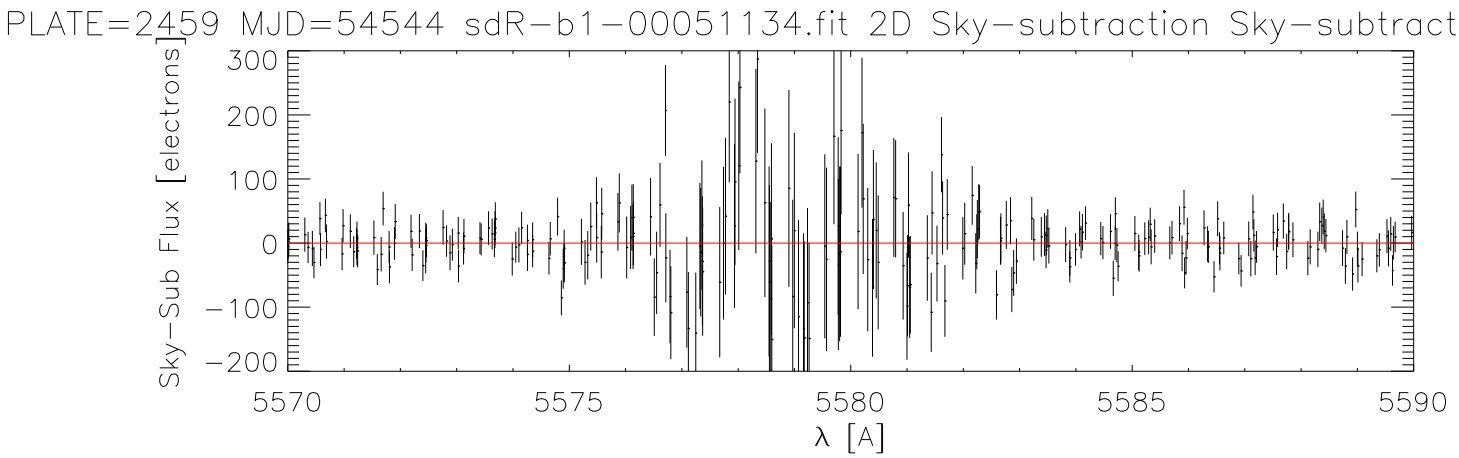

PLATE=2459 MJD=54544 sdR-b1-00051134.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

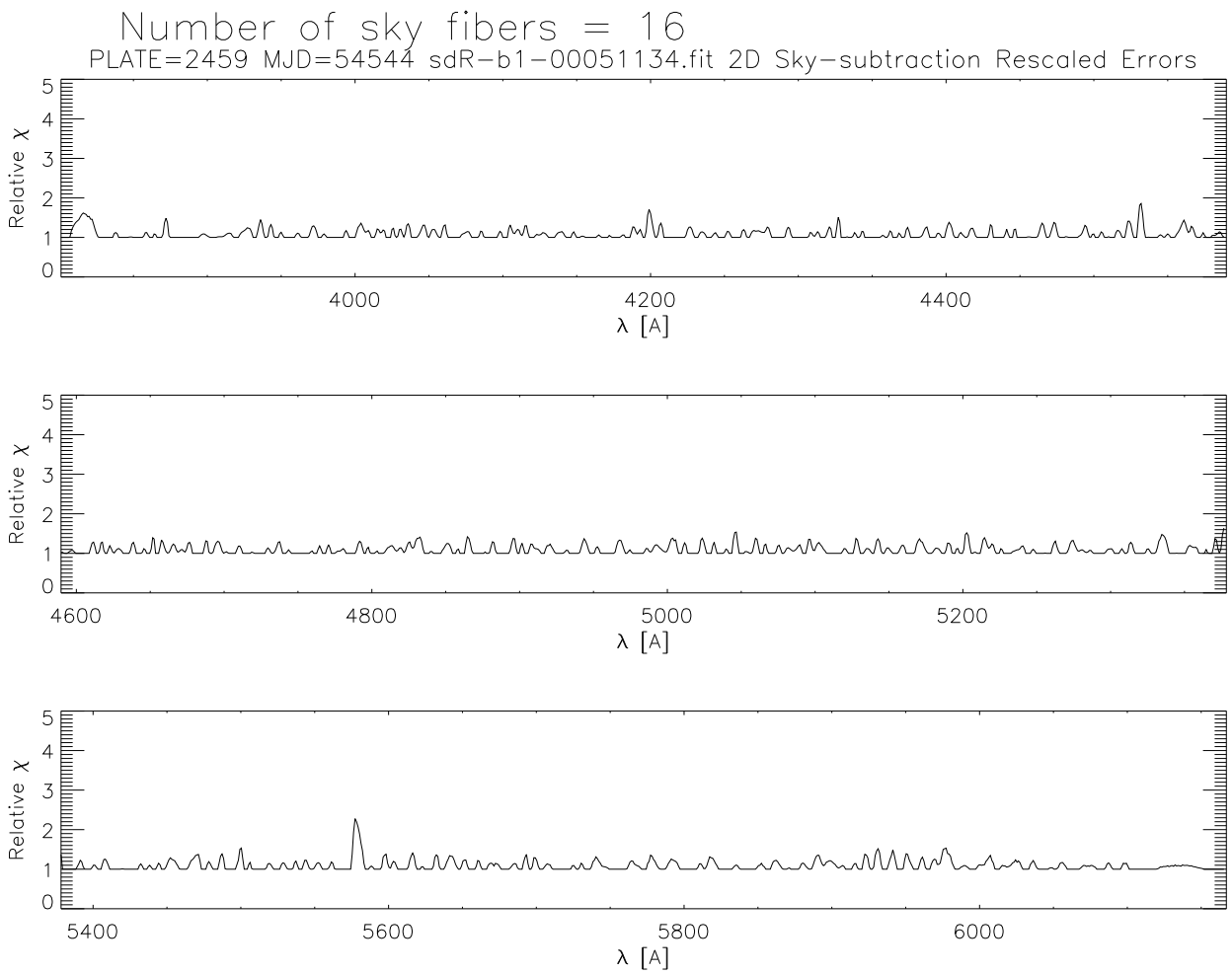

PLATE=2459 MJD=54544 sdR-b1-00051134.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

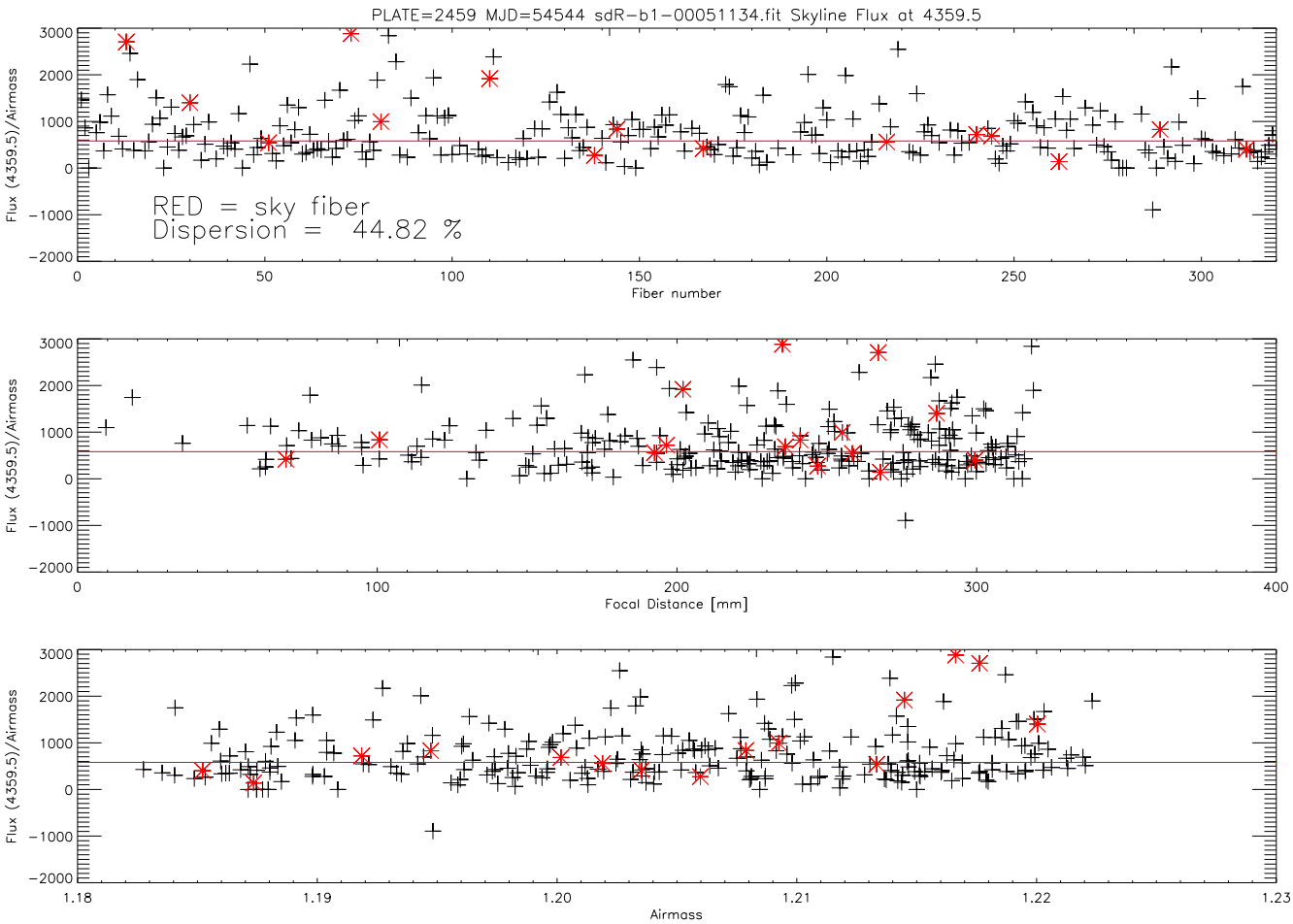

Number of sky fibers = 16
PLATE=2459 MJD=54544 sdR-b1-00051134.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

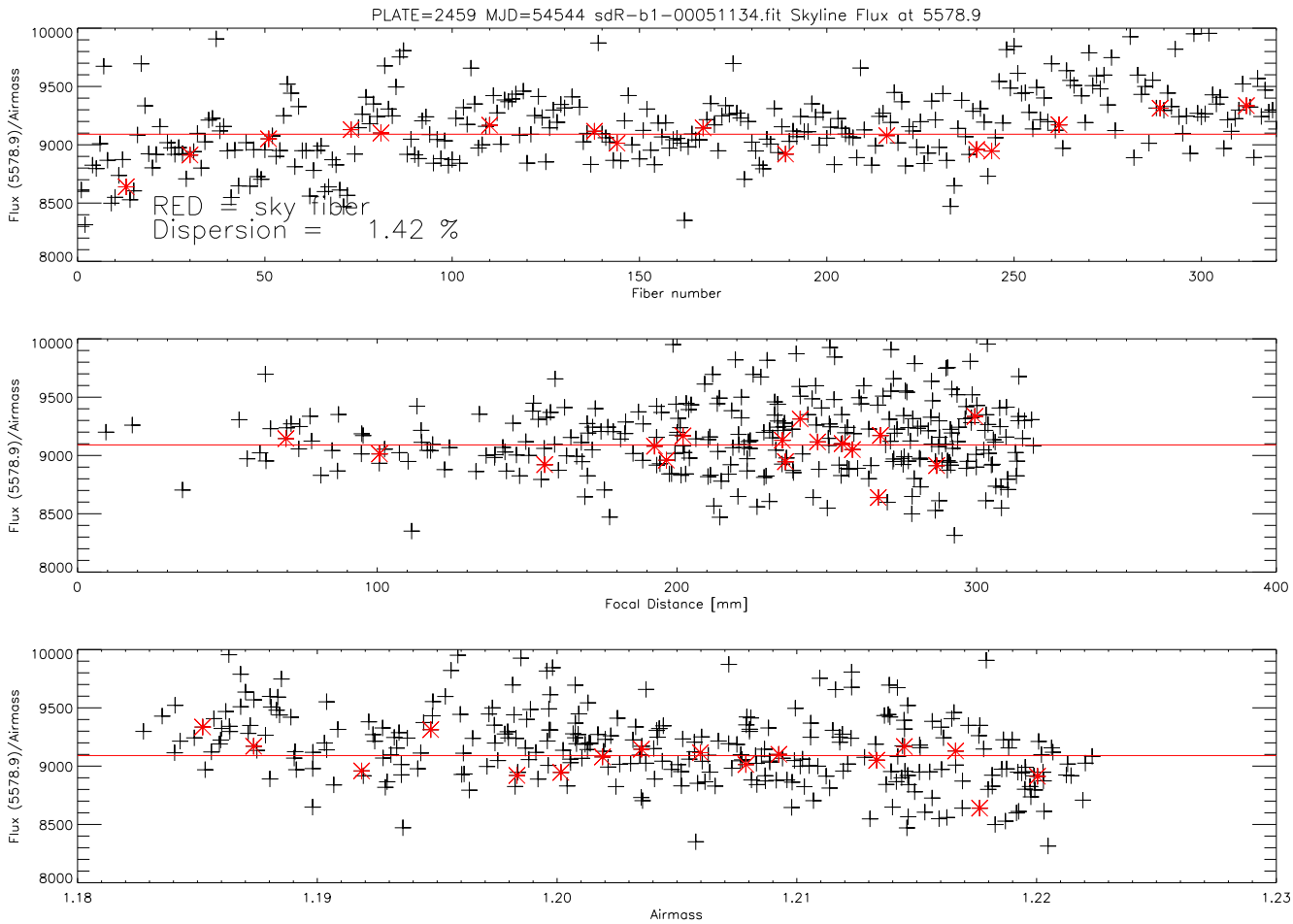

PLATE=2459 MJD=54544 sdR-b1-00051134.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
10
0
-10
-20
50
100
150
200
250
300
Fiber number

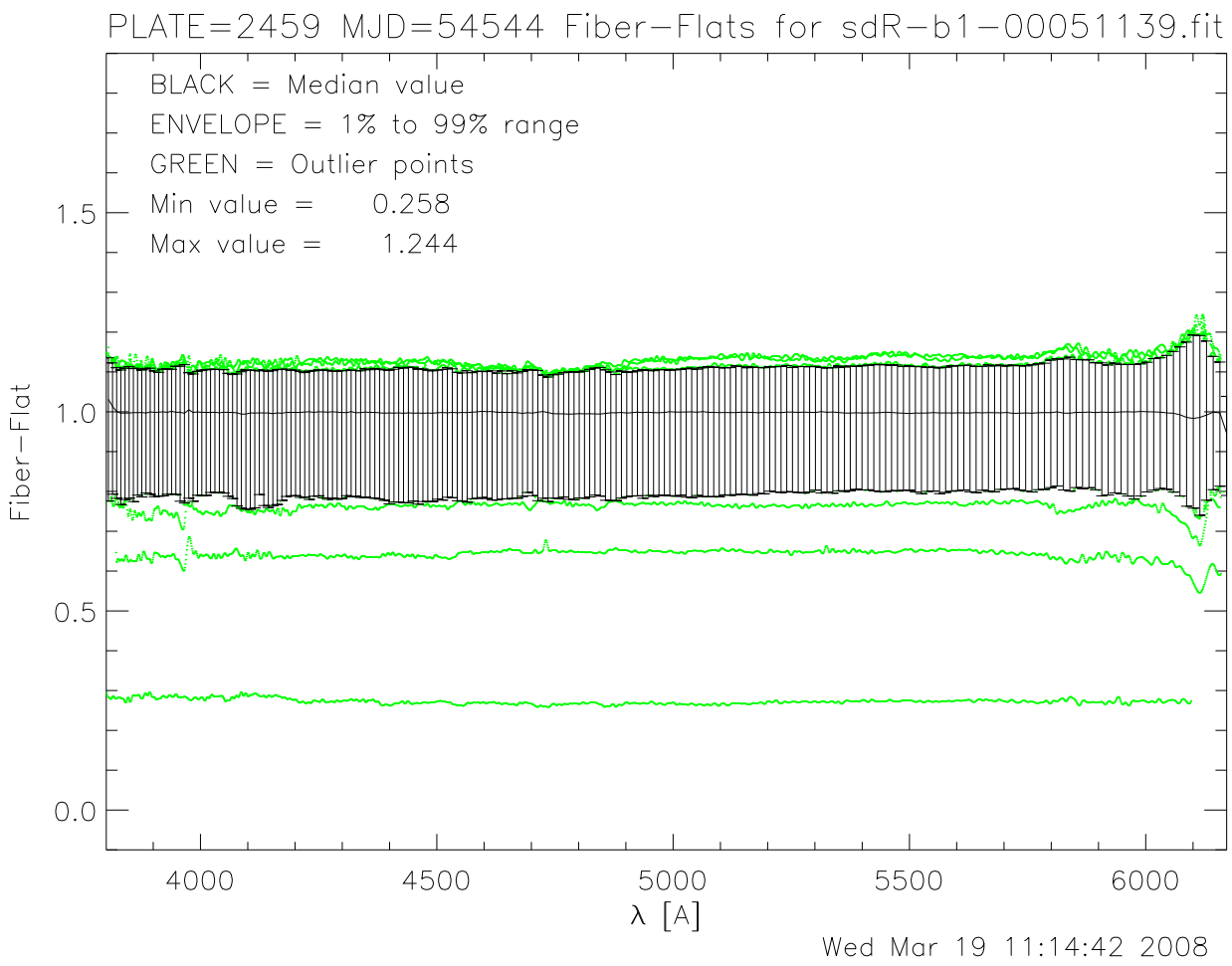

PLATE=2459 MJD=54544 sdR-b1-00051134.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

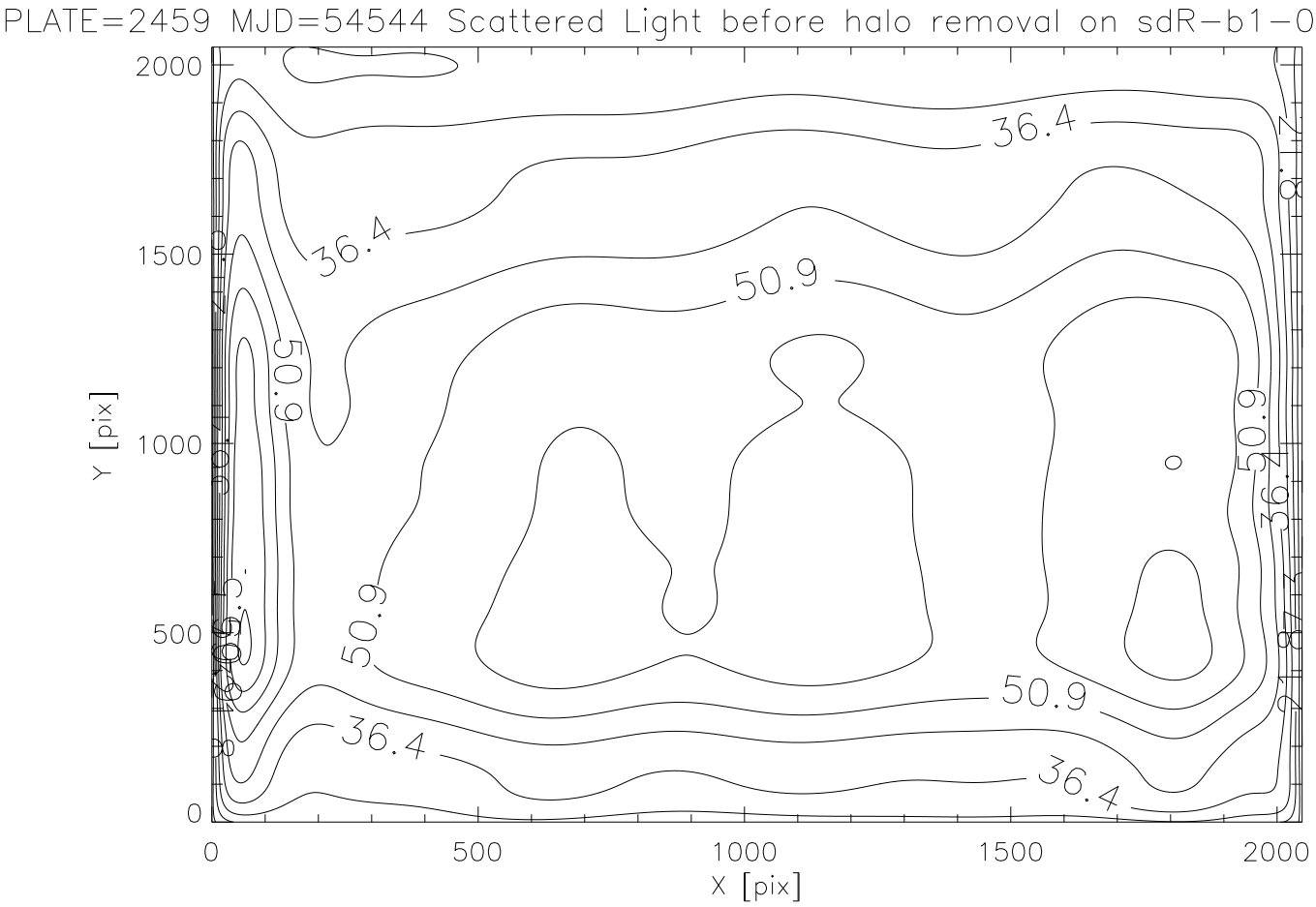

PLATE=2459 MJD=54544 sdR-b1-00051134.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

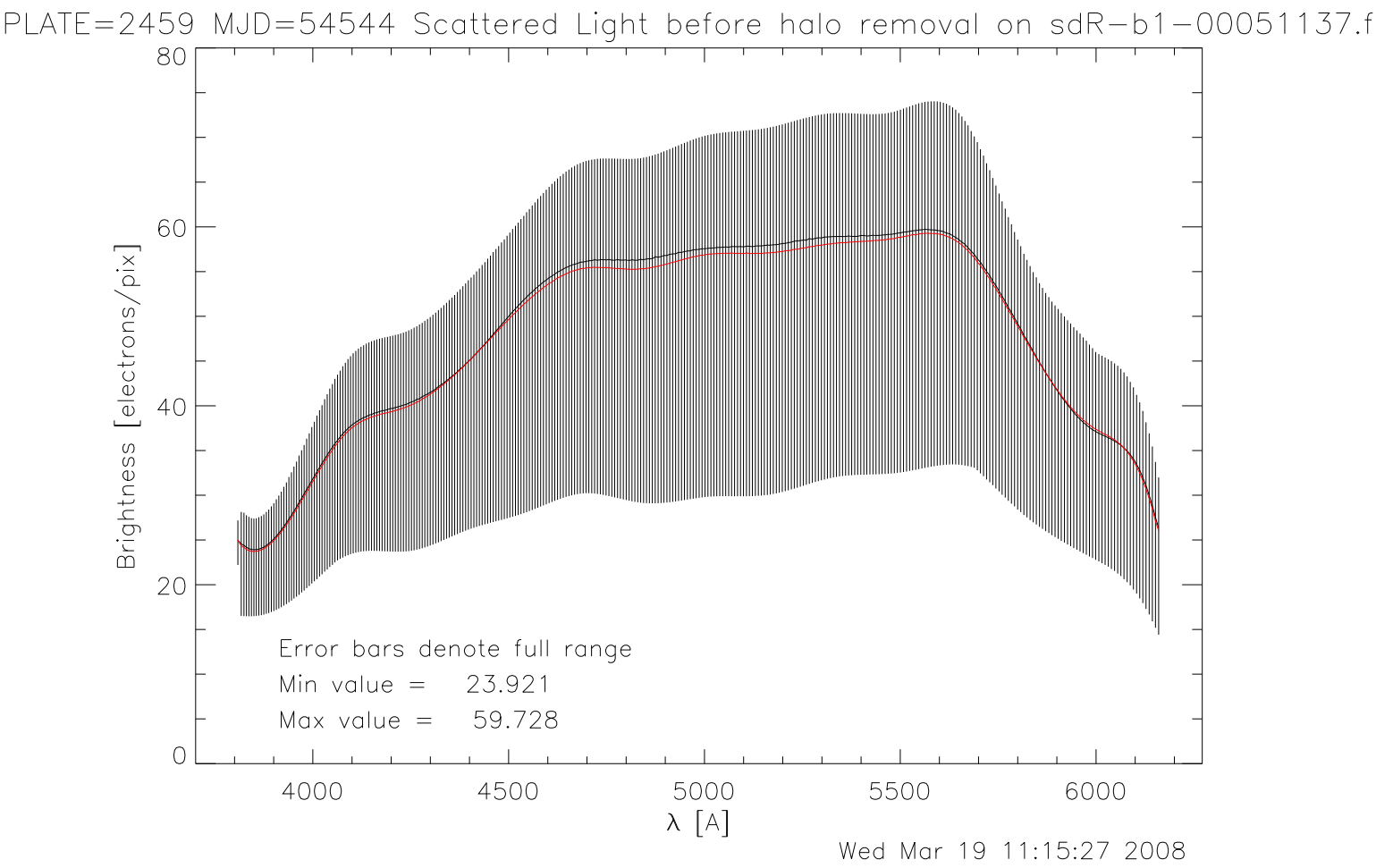

Number of sky fibers = 16
PLATE=2459 MJD=54544 sdR-b1-00051134.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

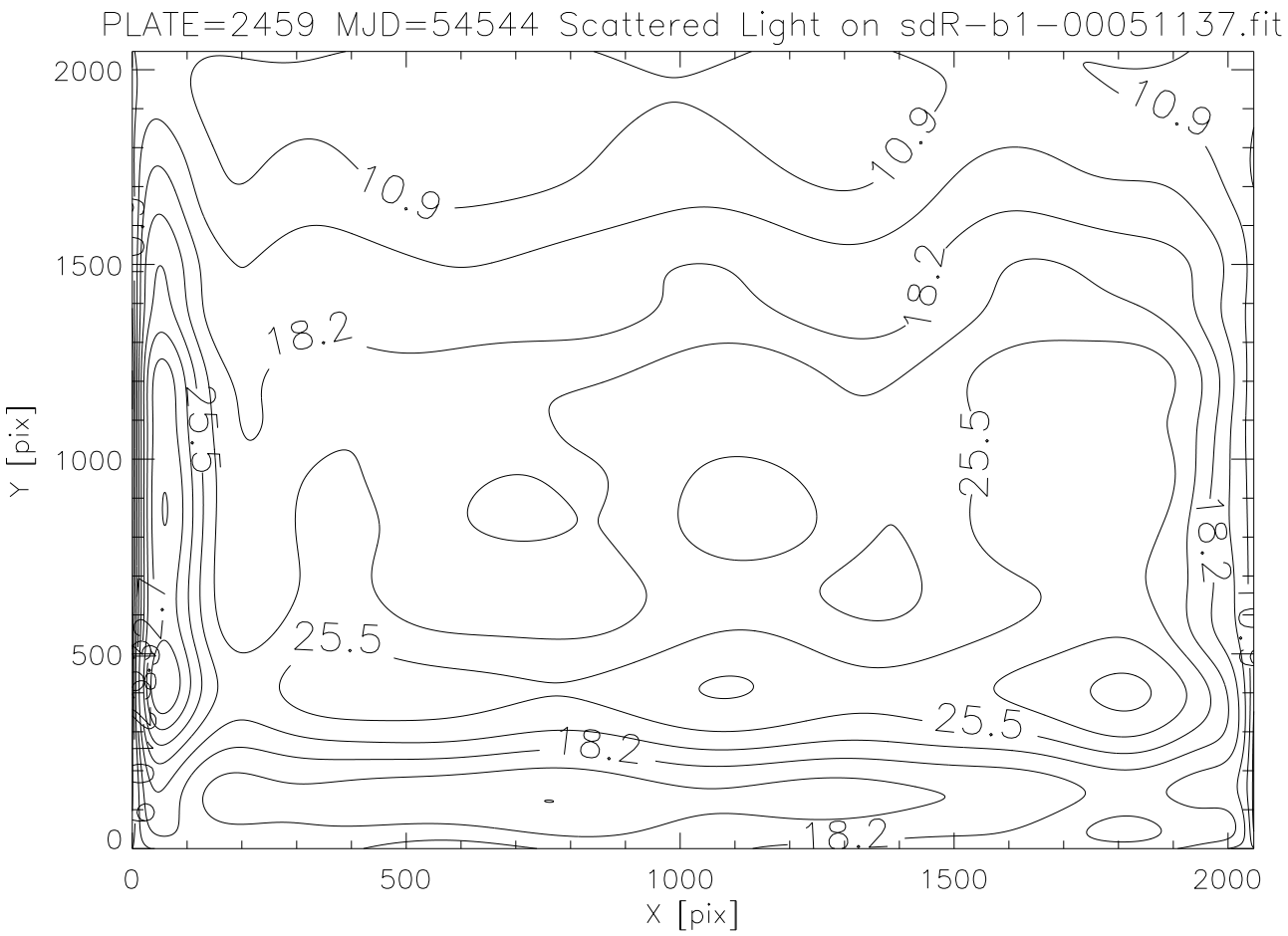

PLATE=2459 MJD=54544 sdR-b1-00051134.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 44.82 %
Fiber number
Focal Distance [mm]
Airmass

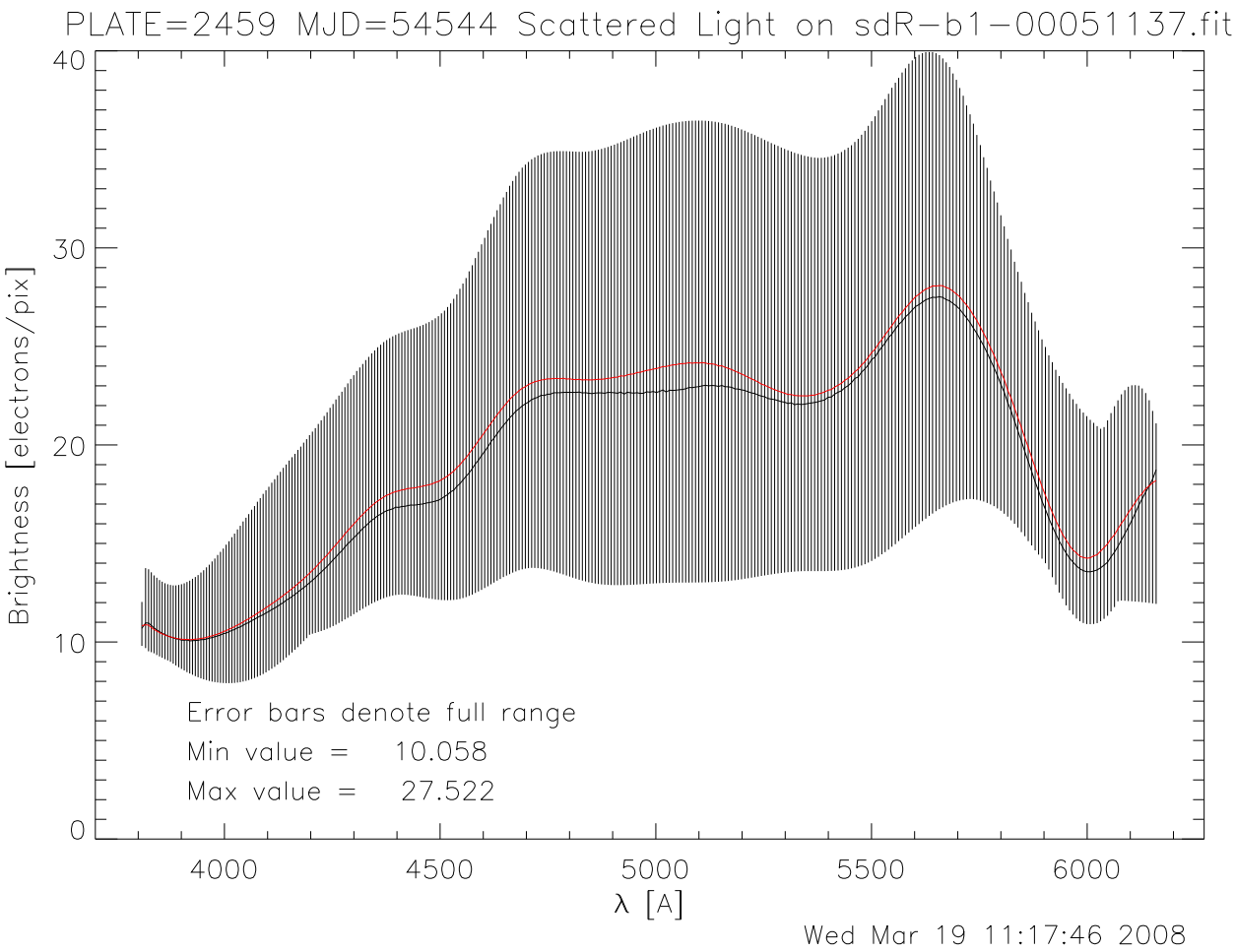

PLATE=2459 MJD=54544 sdR-b1-00051134.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.42 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

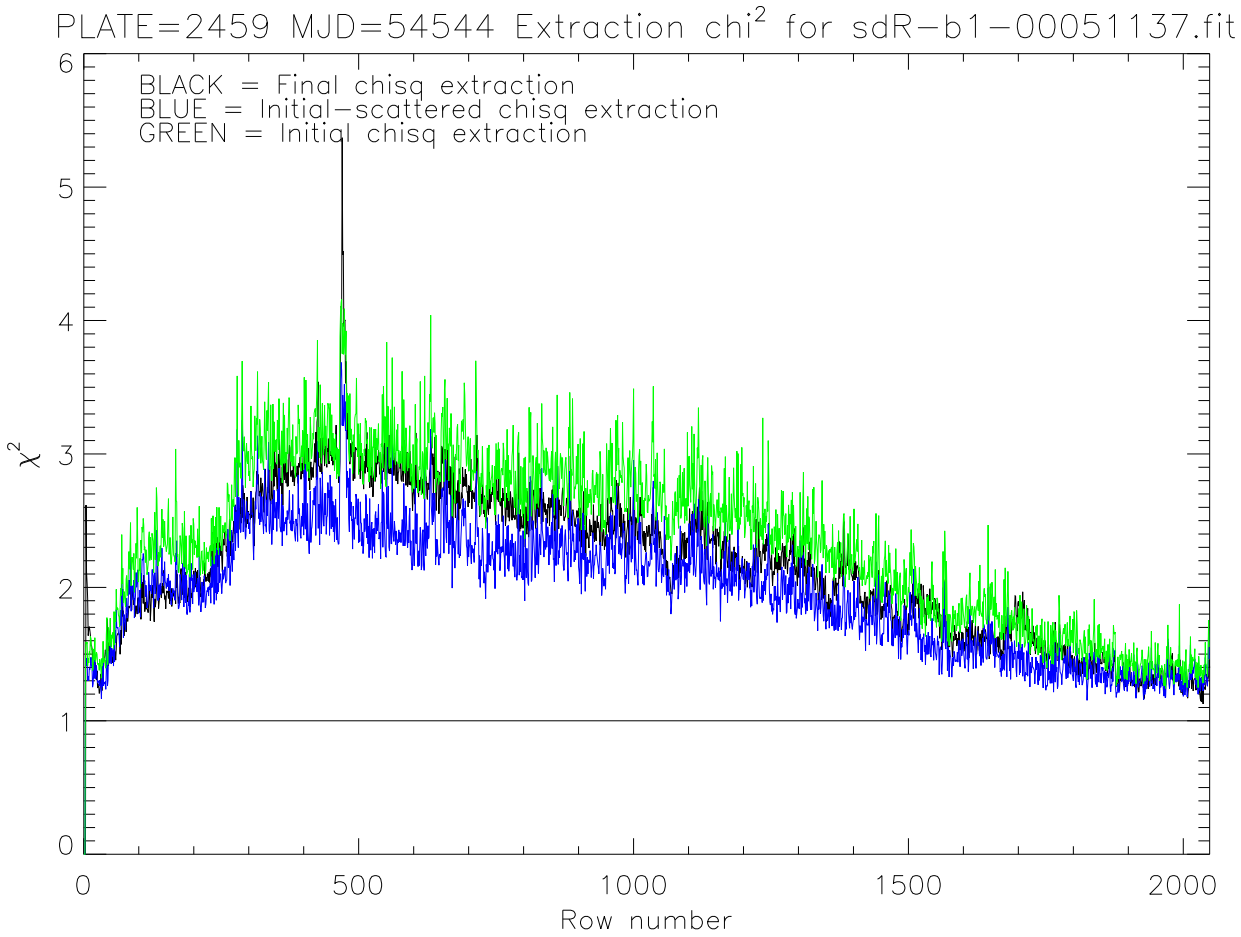

PLATE=2459 MJD=54544 Fiber−Flats for sdR−b1−00051139.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.258
Max value = 1.244
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 19 11:14:42 2008

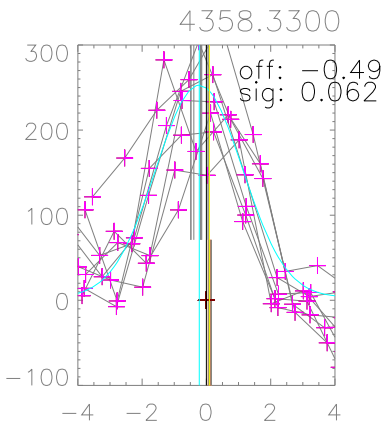

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR−b1−00051137.f
36.4
50.9
Y [pix]
X [pix]
0
500
1000
1500
2000

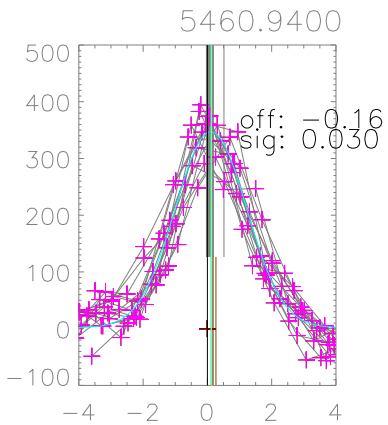

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-b1-00051137.f
Brightness [electrons/pix]
80
60
40
20
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 23.921
Max value = 59.728
Wed Mar 19 11:15:27 2008

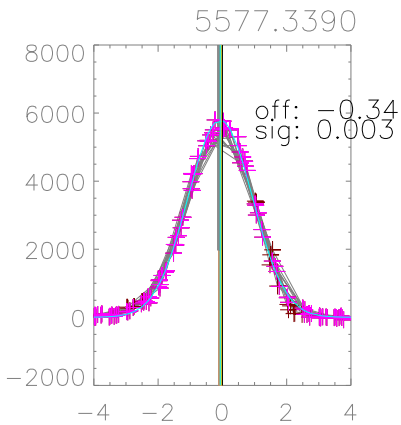

PLATE=2459 MJD=54544 Scattered Light on sdR-b1-00051137.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
10.9
18.2
25.5

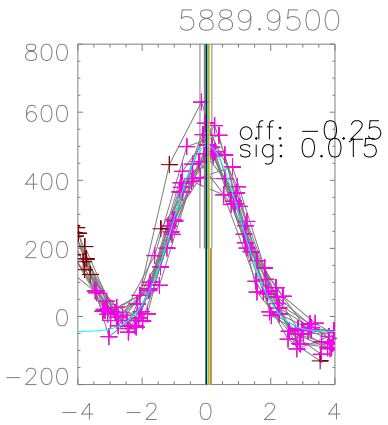

PLATE=2459 MJD=54544 Scattered Light on sdR-b1-00051137.fit
Brightness [electrons/pix]
40
30
20
10
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 10.058
Max value = 27.522
Wed Mar 19 11:17:46 2008

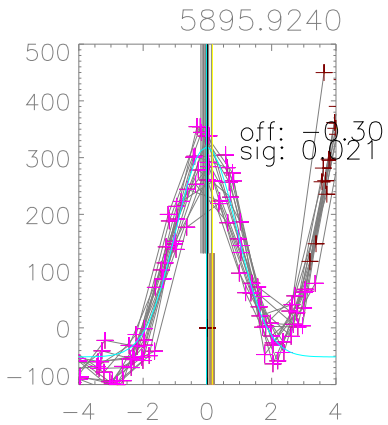

PLATE=2459 MJD=54544 Extraction chi^2 for sdR-b1-00051137.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
6
0
500
1000
1500
2000

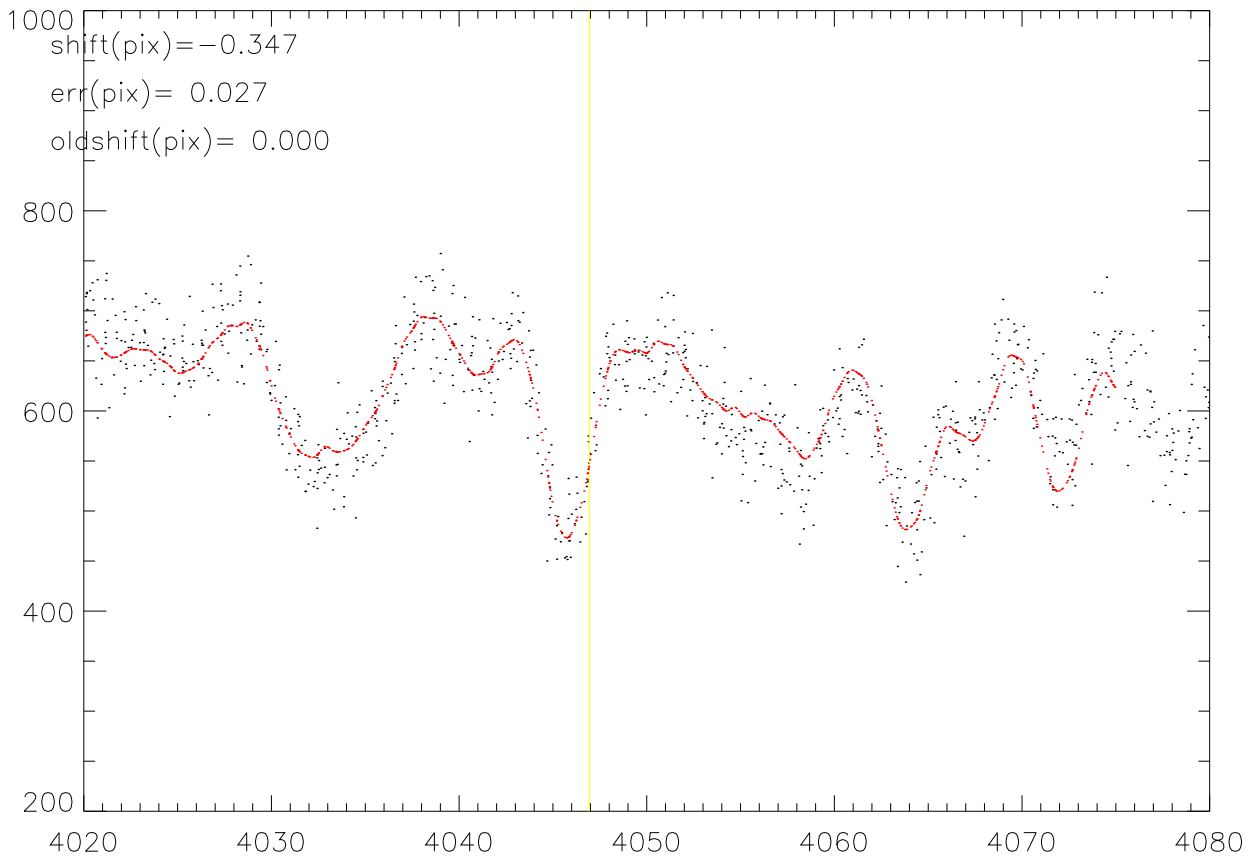

4358.3300
off: −0.49
sig: 0.062

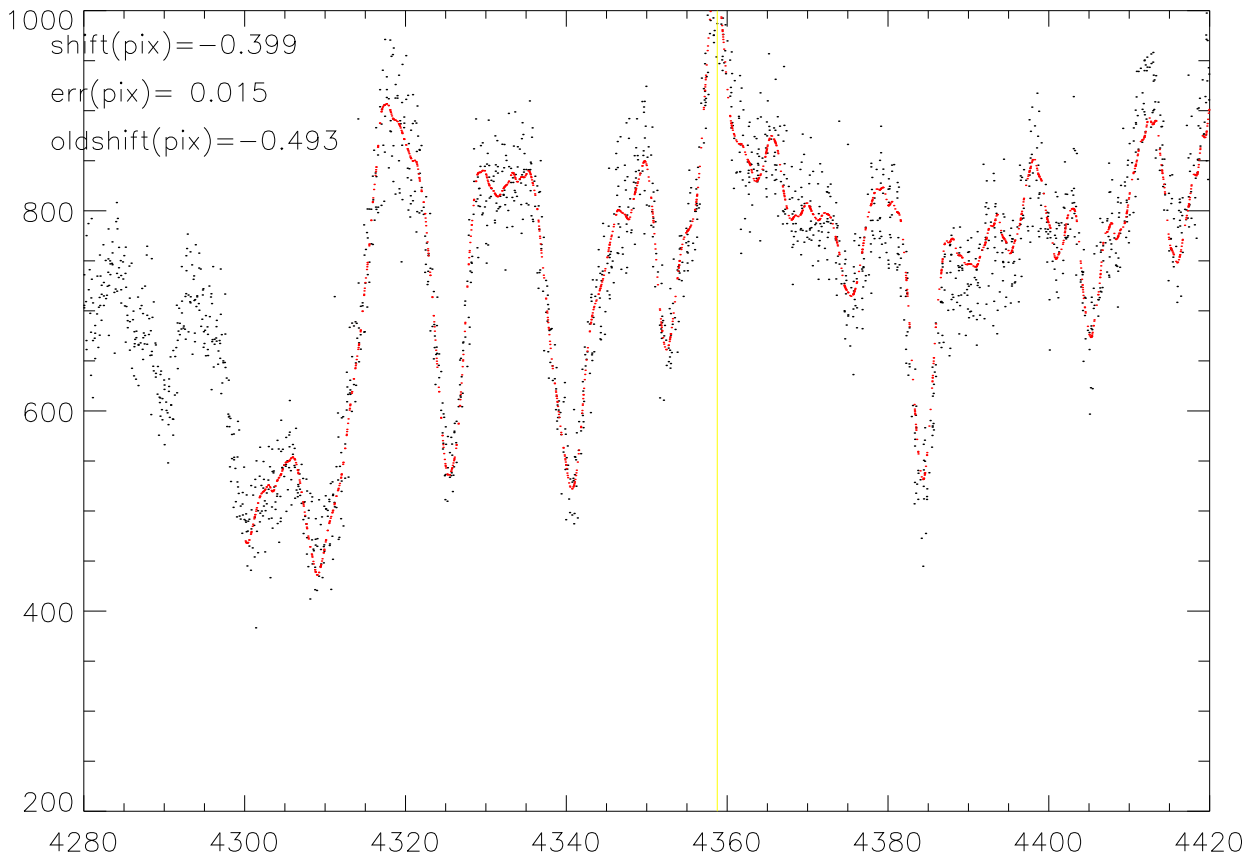

5460.9400
off: −0.16
sig: 0.030

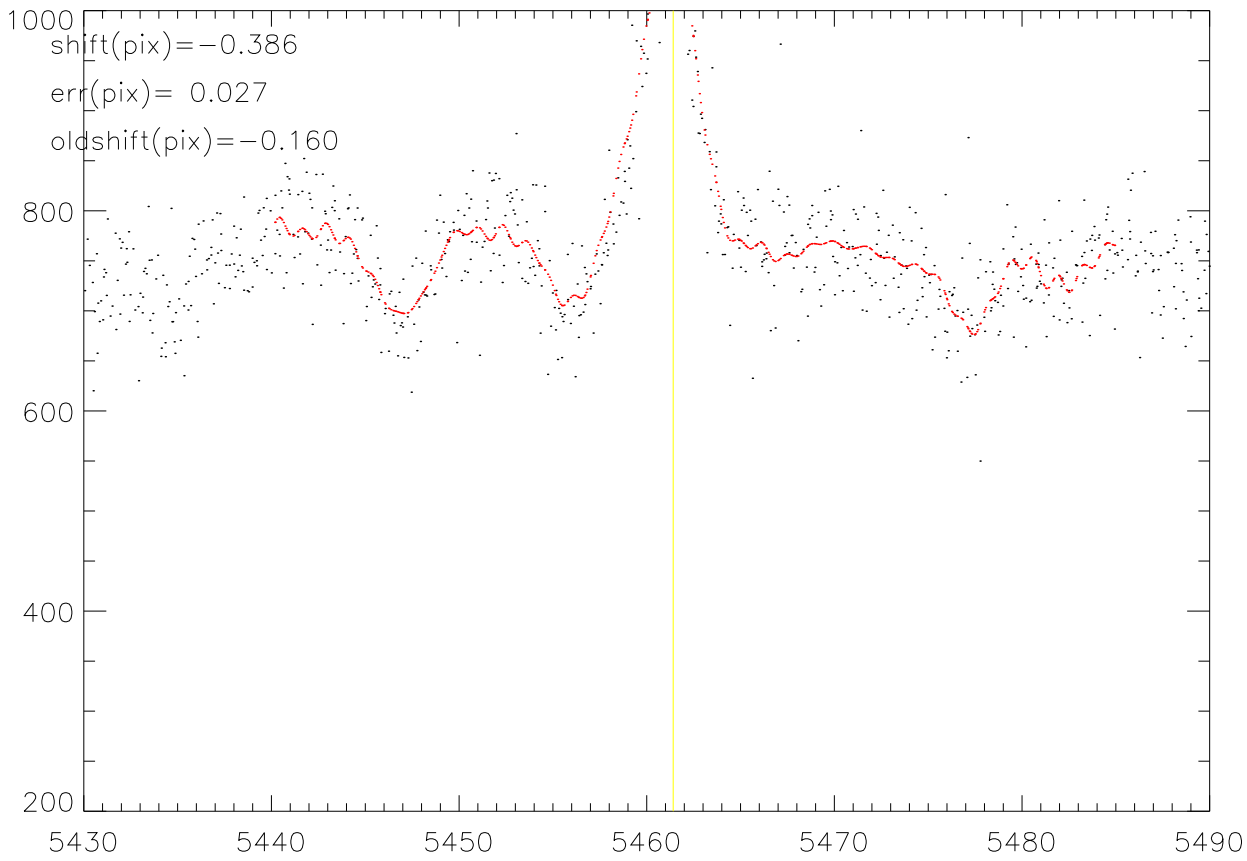

5577.3390
off: −0.34
sig: 0.003

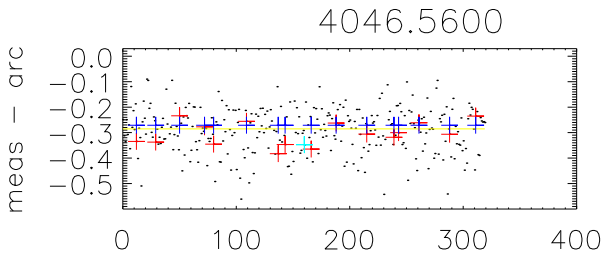

5889.9500
off: −0.25
sig: 0.015

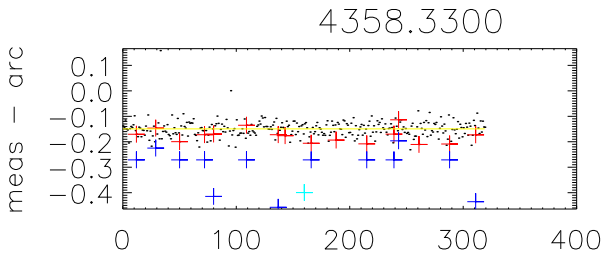

5895.9240
off: −0.30
sig: 0.021

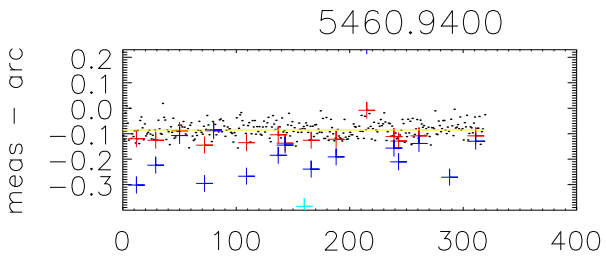

shift(pix)=−0.347
err(pix)= 0.027
oldshift(pix)= 0.000
1000
800
600
400
200
4020
4030
4040
4050
4060
4070
4080

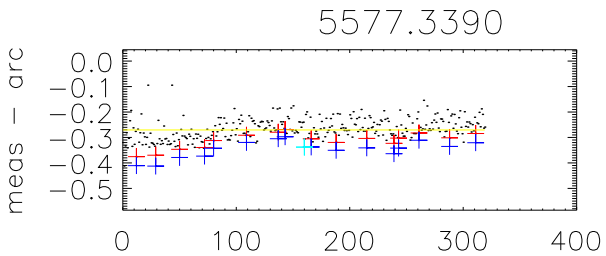

shift(pix)=−0.399
err(pix)= 0.015
oldshift(pix)=−0.493
1000
800
600
400
200
4280
4300
4320
4340
4360
4380
4400
4420

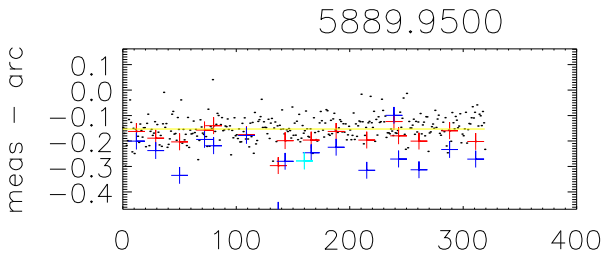

shift(pix)=−0.386
err(pix)= 0.027
oldshift(pix)=−0.160
1000
800
600
400
200
5430
5440
5450
5460
5470
5480
5490

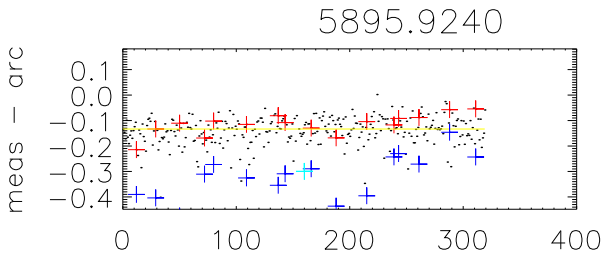

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

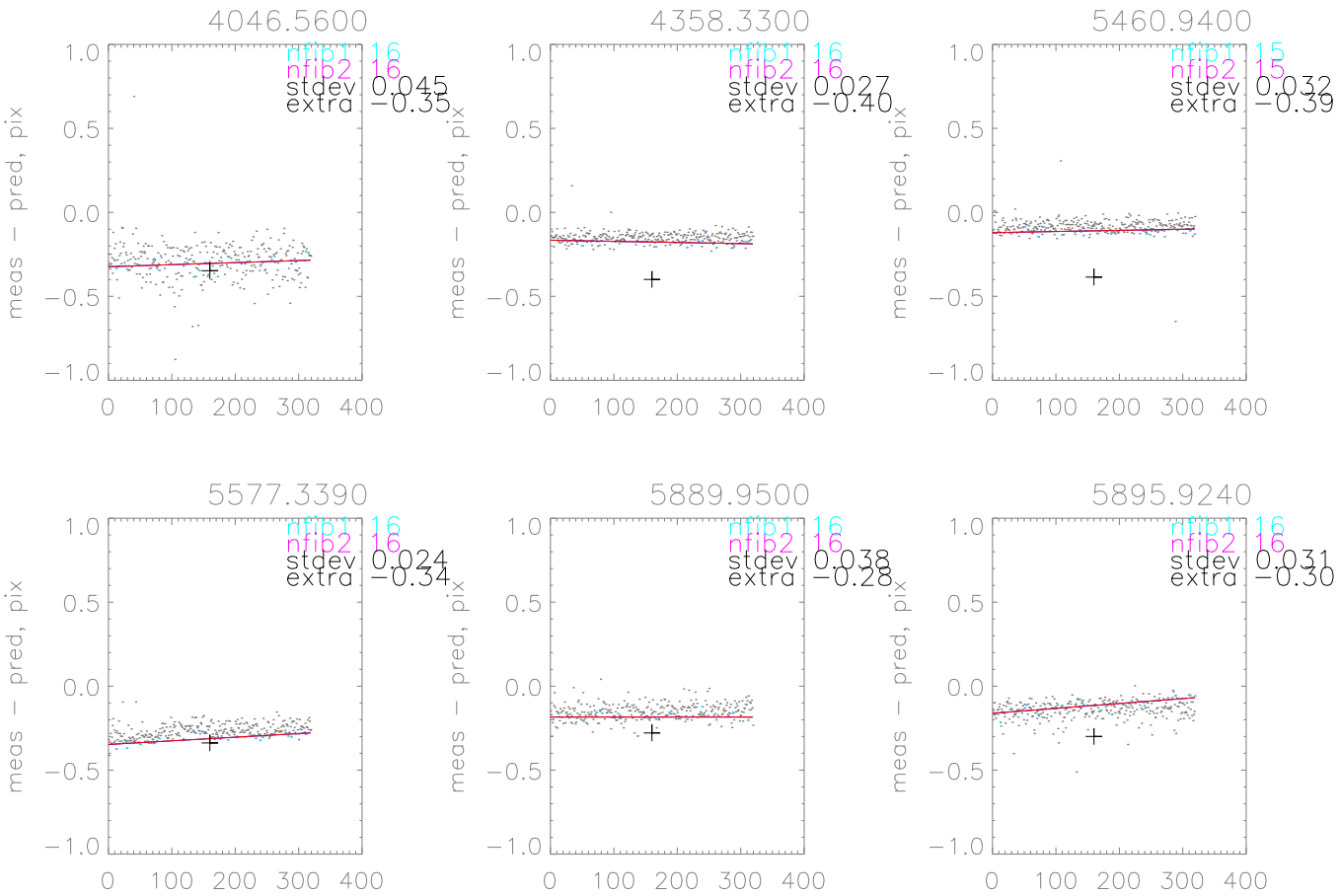

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

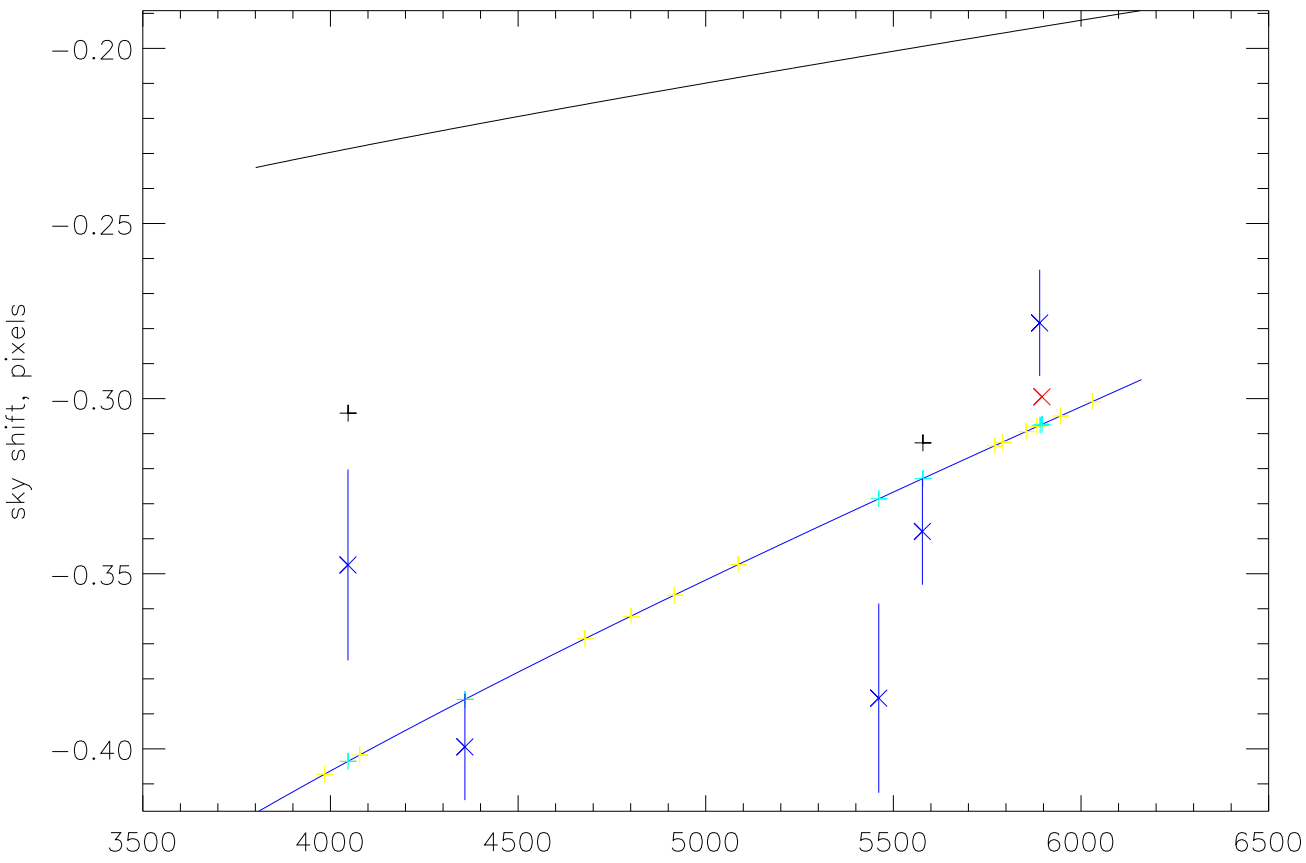

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

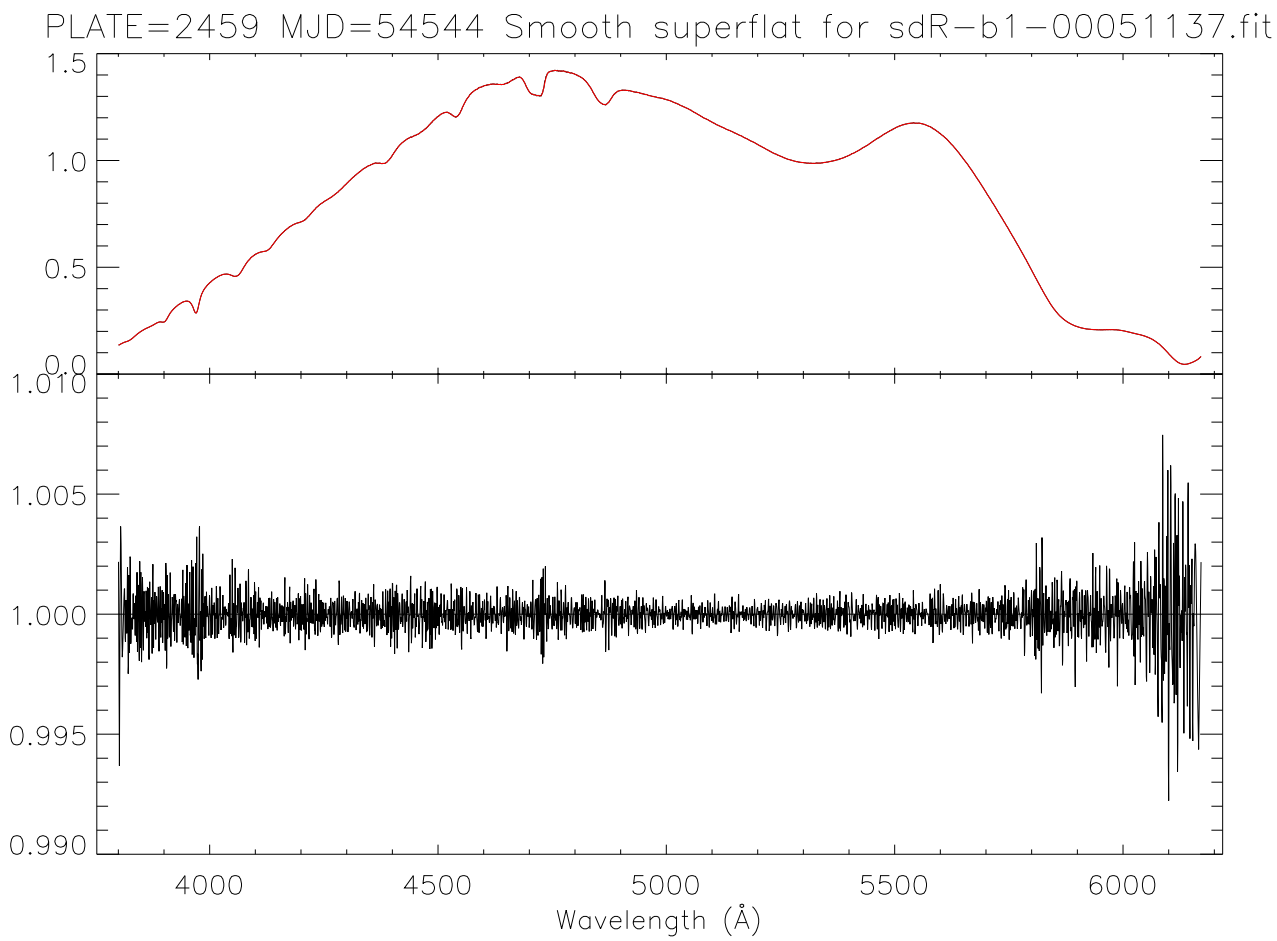

5889.9500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

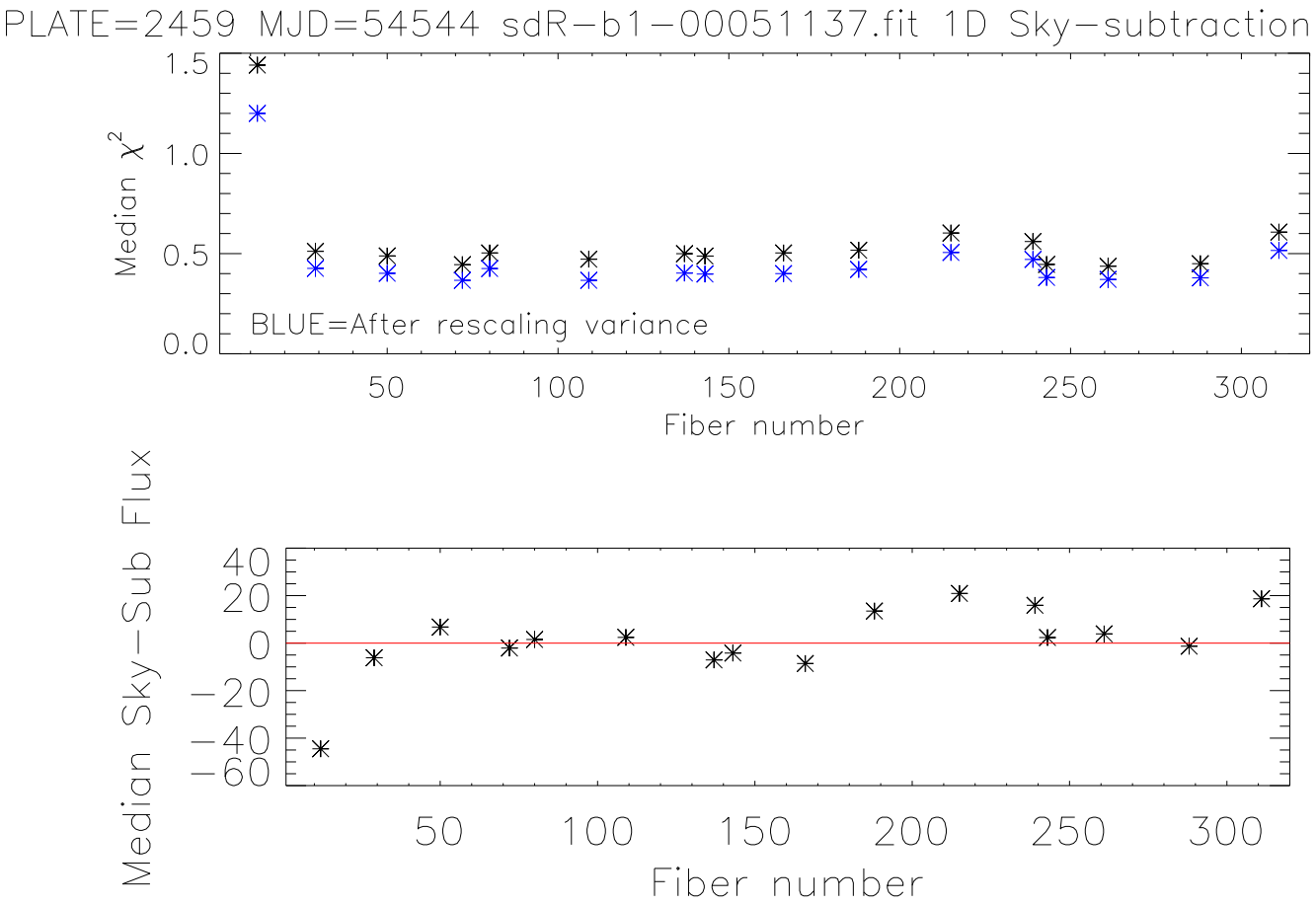

5895.9240
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

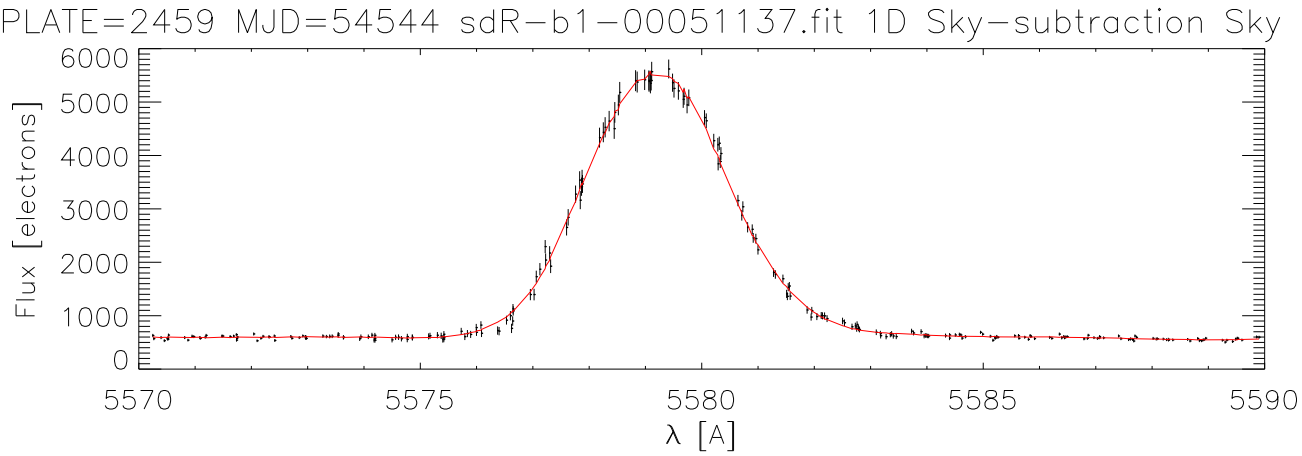

4046.5600
nfib1 16
nfib2 16
stdev 0.045
extra −0.35
4358.3300
nfib1 16
nfib2 16
stdev 0.027
extra −0.40
5460.9400
nfib1 15
nfib2 15
stdev 0.032
extra −0.39
5577.3390
nfib1 16
nfib2 16
stdev 0.024
extra −0.34
5889.9500
nfib1 16
nfib2 16
stdev 0.038
extra −0.28
5895.9240
nfib1 16
nfib2 16
stdev 0.031
extra −0.30
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

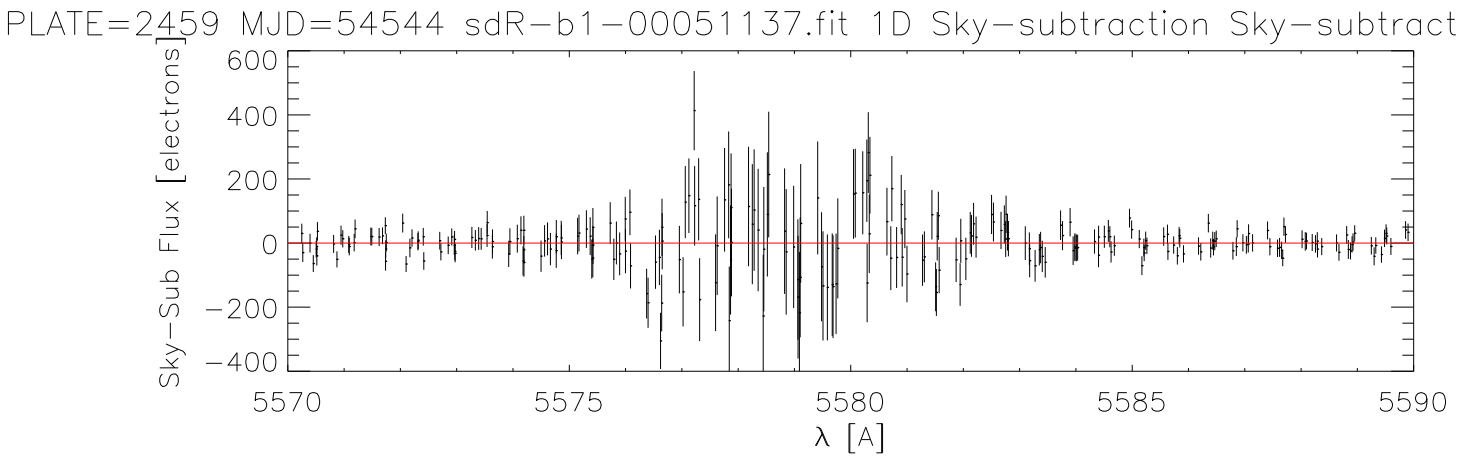

−0.20
−0.25
−0.30
−0.35
−0.40
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

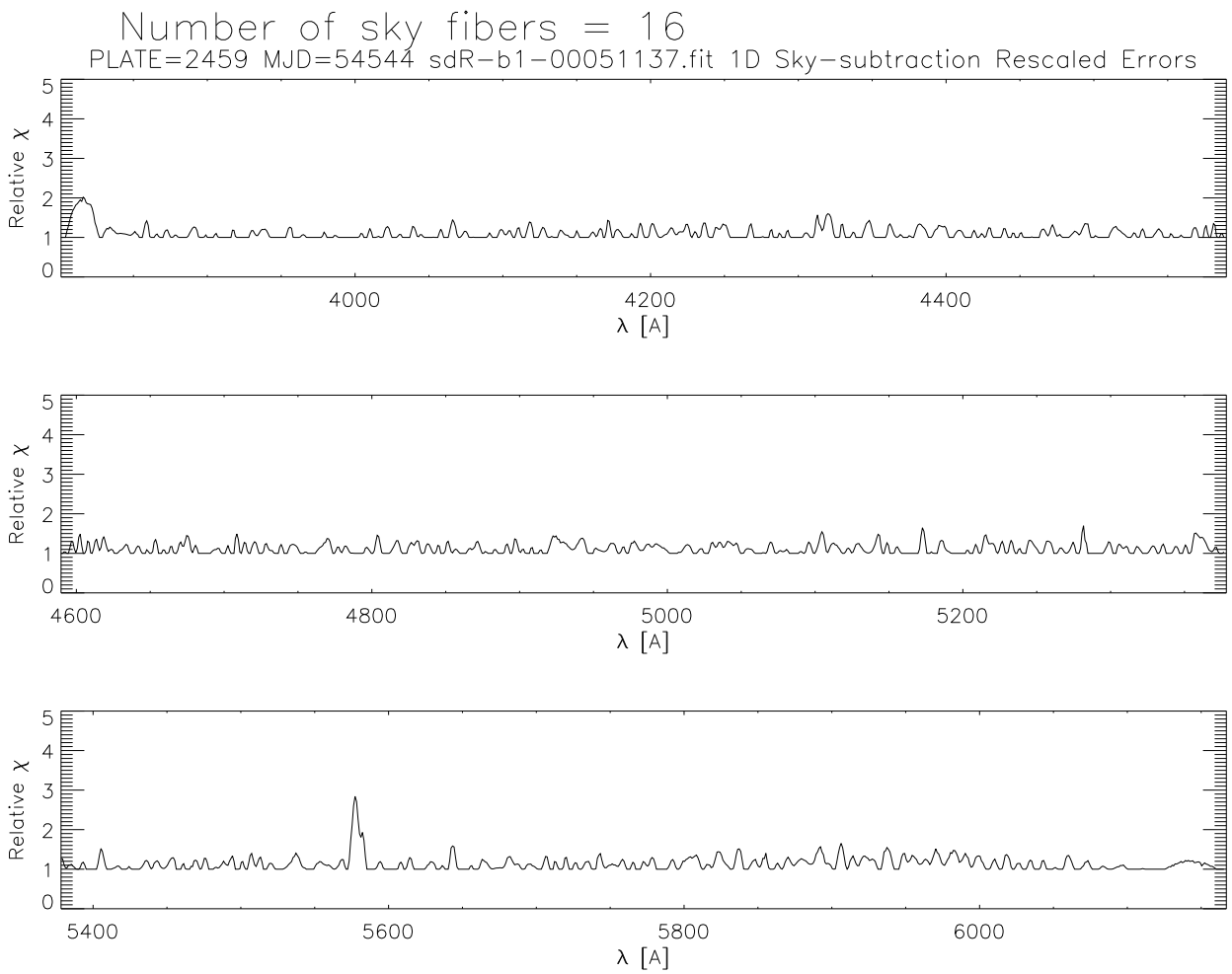
es= 0.0000

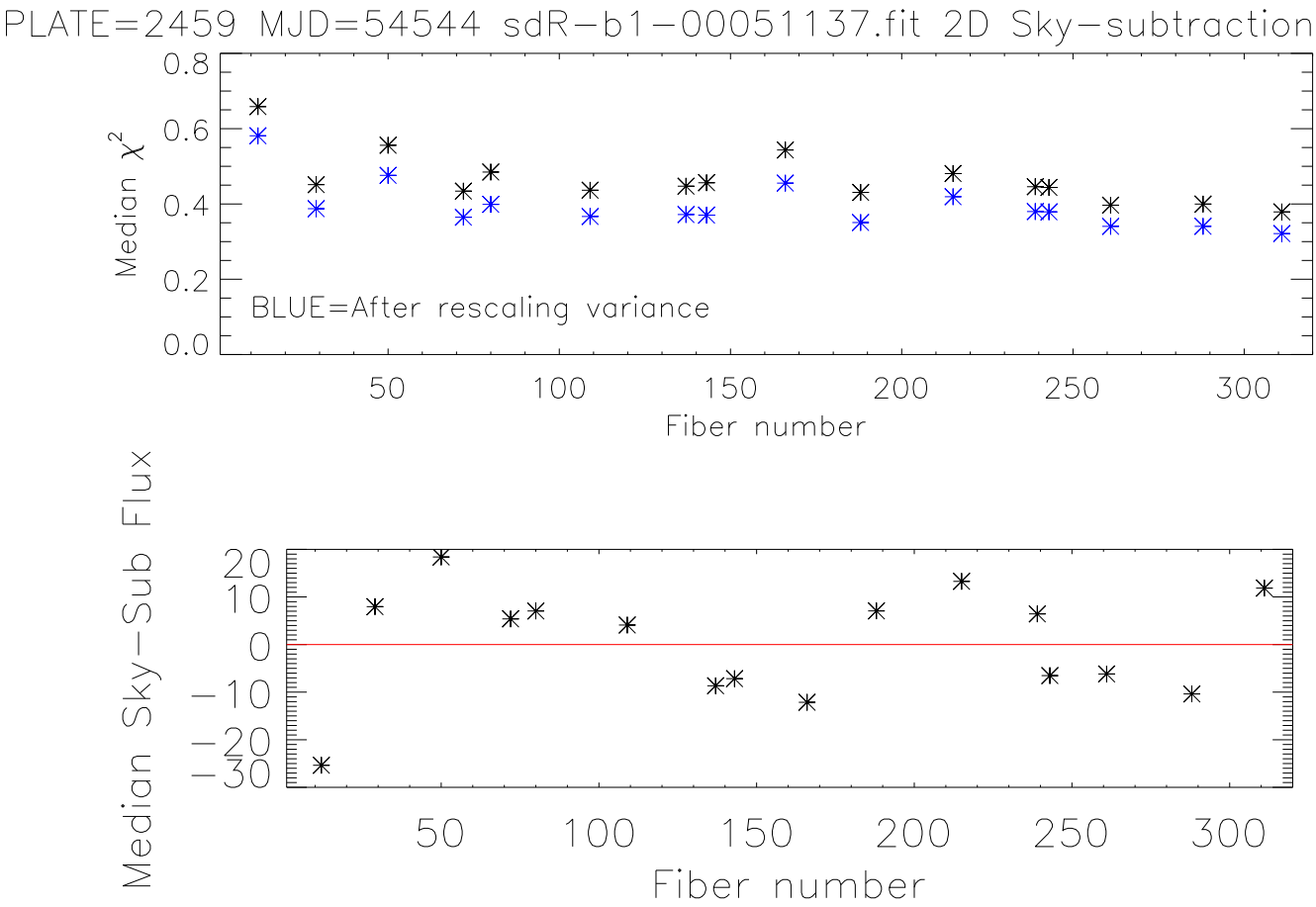

PLATE=2459 MJD=54544 Smooth superflat for sdR-b1-00051137.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

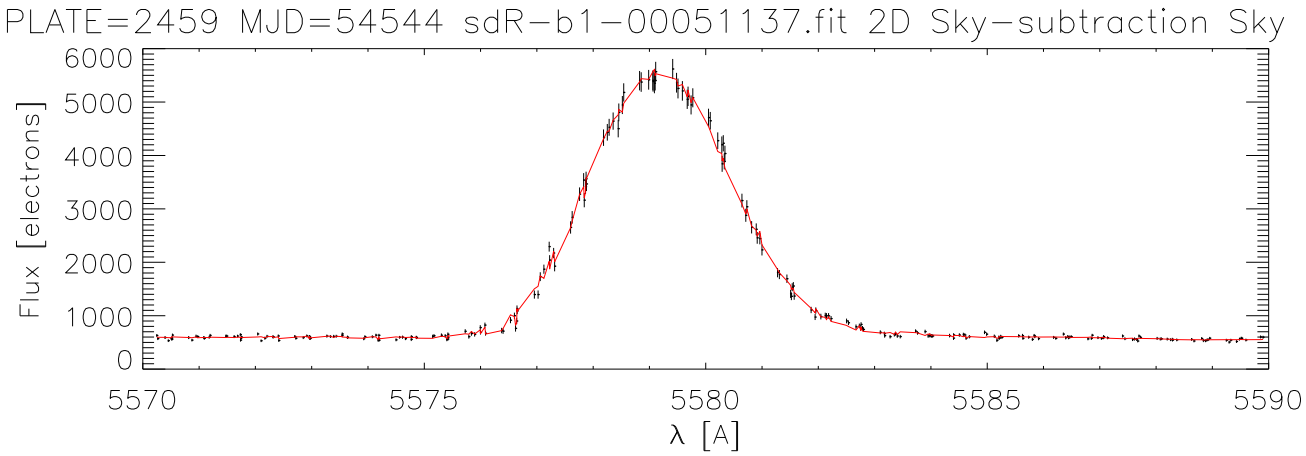

PLATE=2459 MJD=54544 sdR-b1-00051137.fit 1D Sky-subtraction Sky Fiber
Median χ^2
1.5
1.0
0.5
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
40
20
0
-20
-40
-60
50
100
150
200
250
300
Fiber number

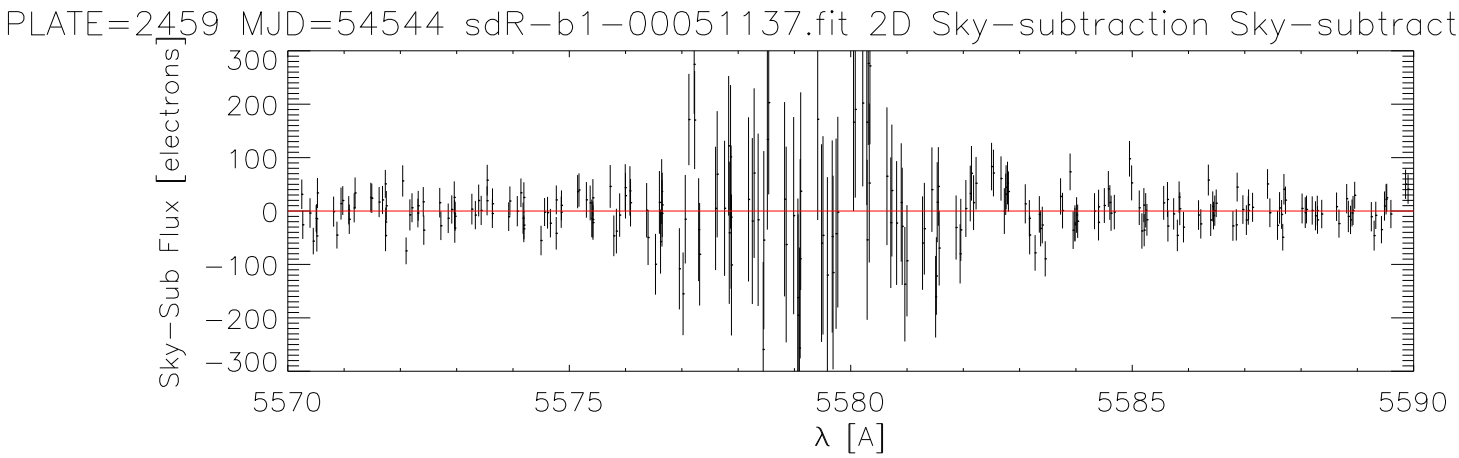

PLATE=2459 MJD=54544 sdR-b1-00051137.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

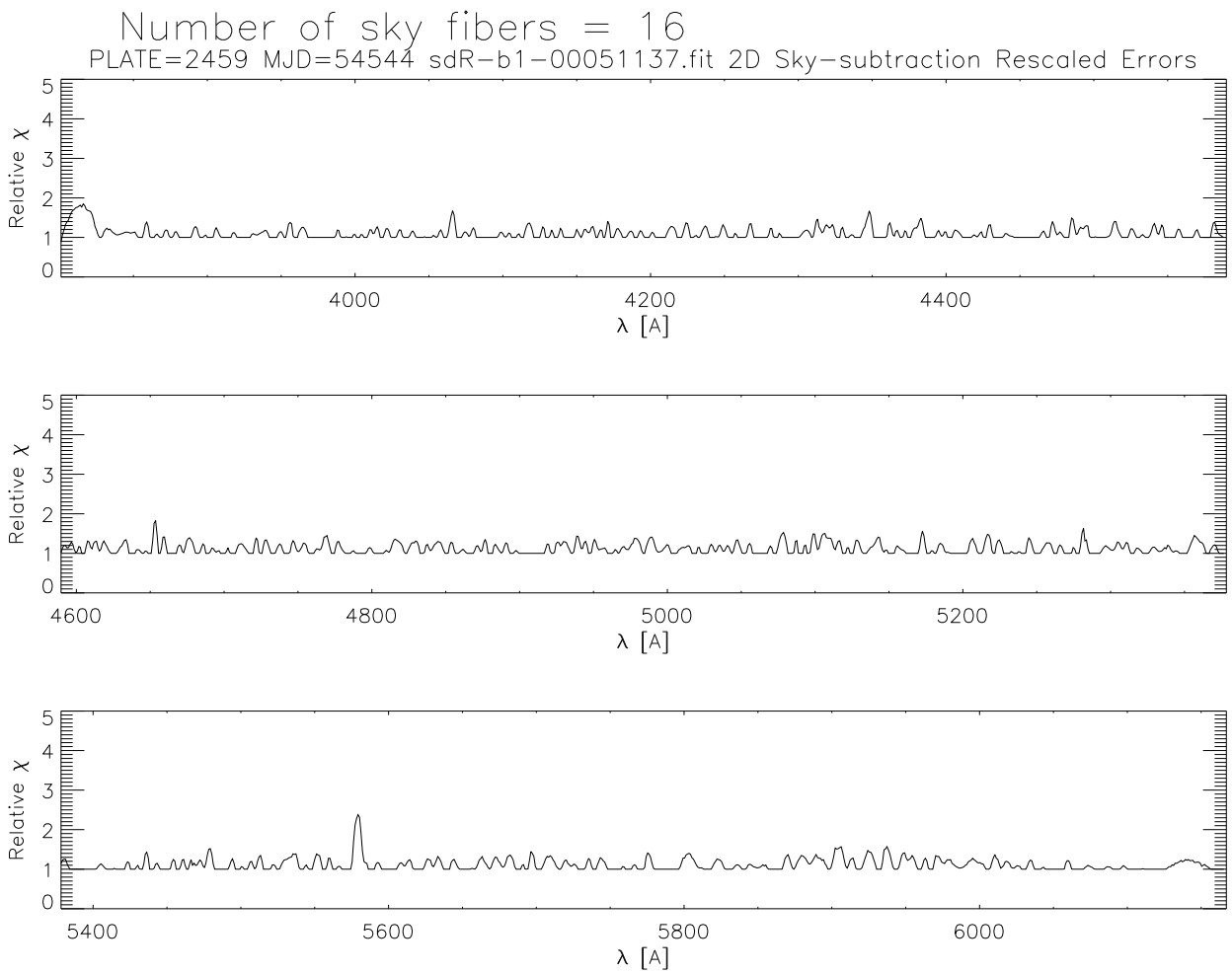

PLATE=2459 MJD=54544 sdR-b1-00051137.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

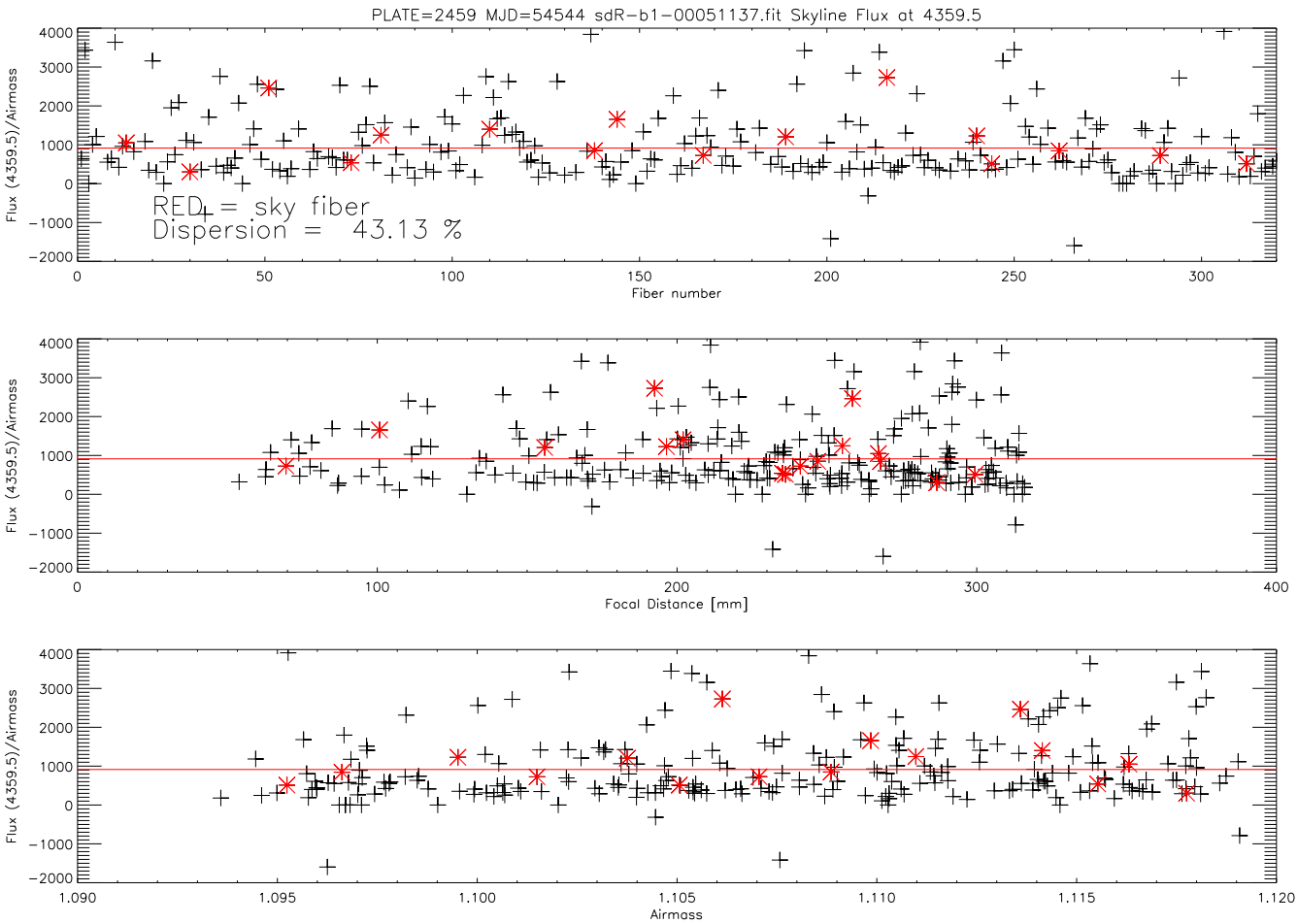

Number of sky fibers = 16
PLATE=2459 MJD=54544 sdR-b1-00051137.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

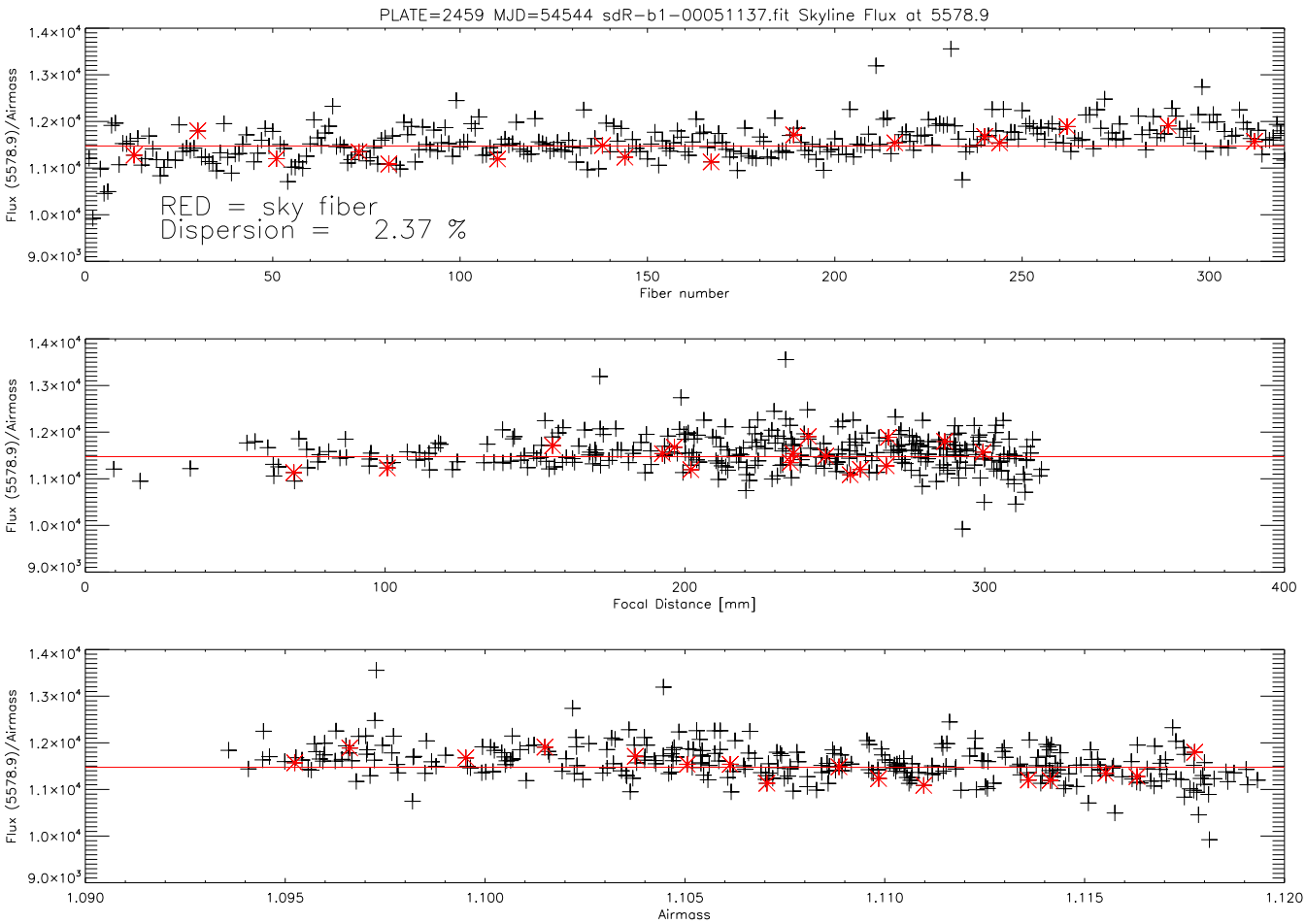

PLATE=2459 MJD=54544 sdR-b1-00051137.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
10
0
-10
-20
-30
50
100
150
200
250
300
Fiber number

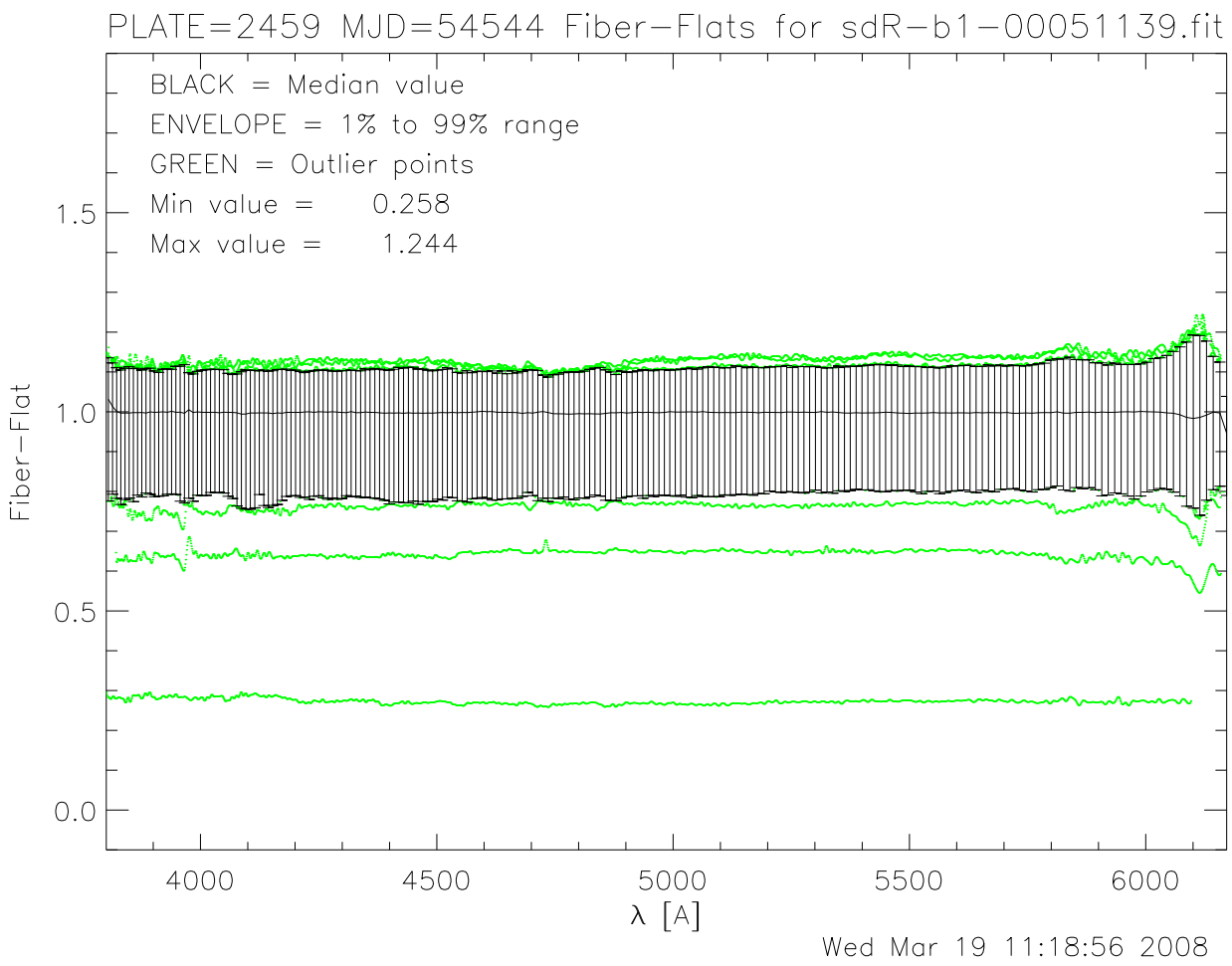

PLATE=2459 MJD=54544 sdR-b1-00051137.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

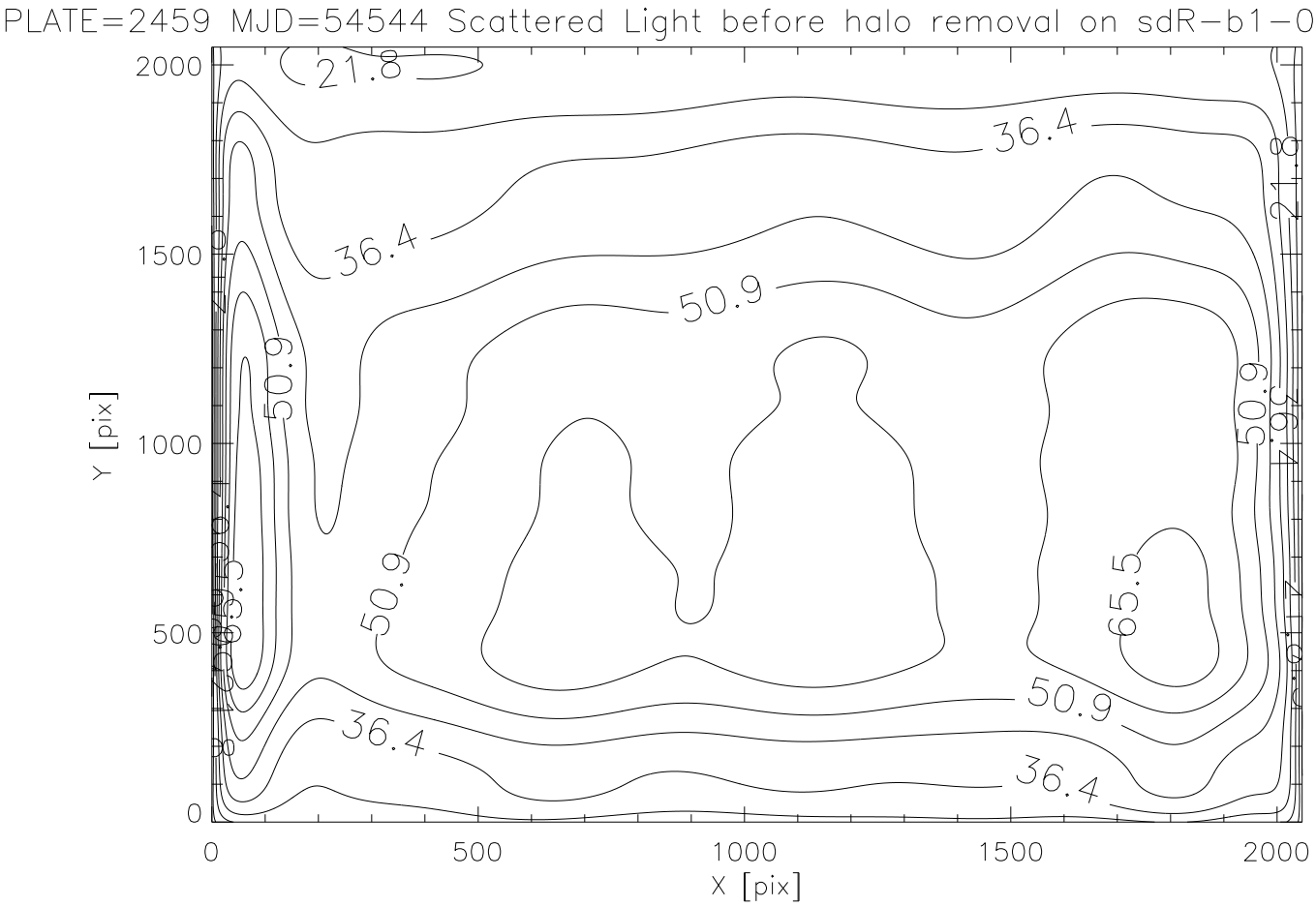

PLATE=2459 MJD=54544 sdR-b1-00051137.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

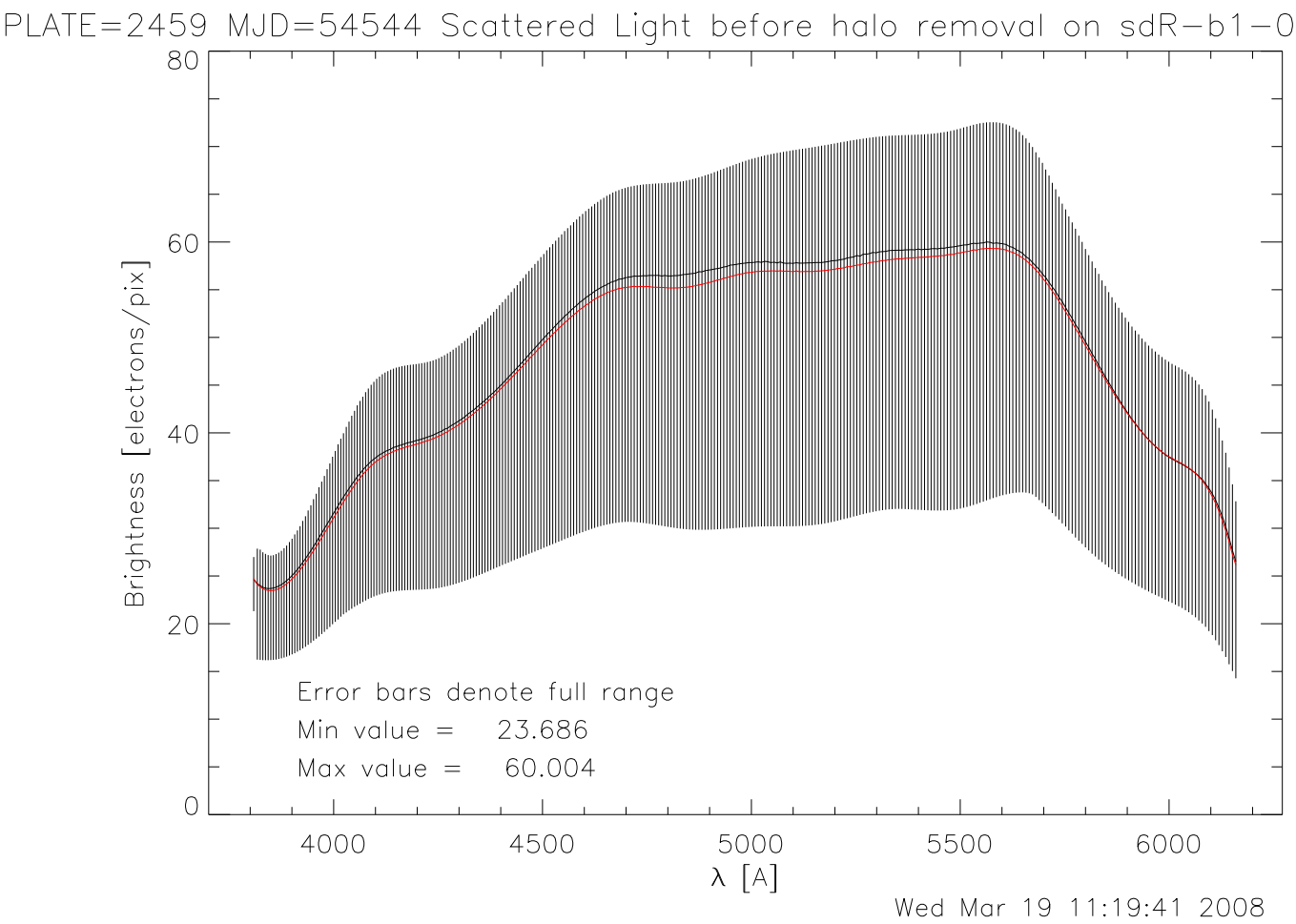

Number of sky fibers = 16
PLATE=2459 MJD=54544 sdR-b1-00051137.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

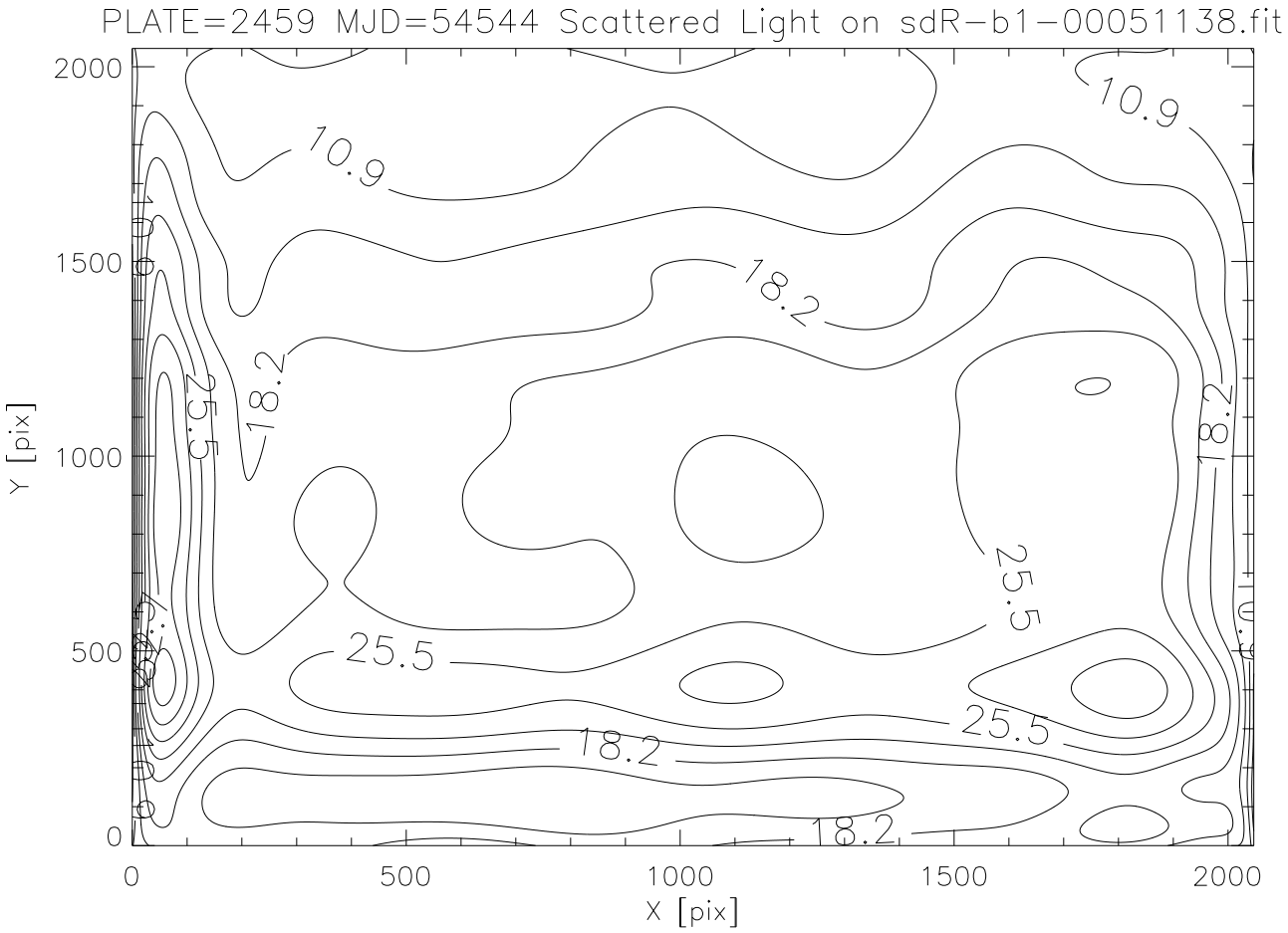

PLATE=2459 MJD=54544 sdR-b1-00051137.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 43.13 %
Fiber number
Focal Distance [mm]
Airmass

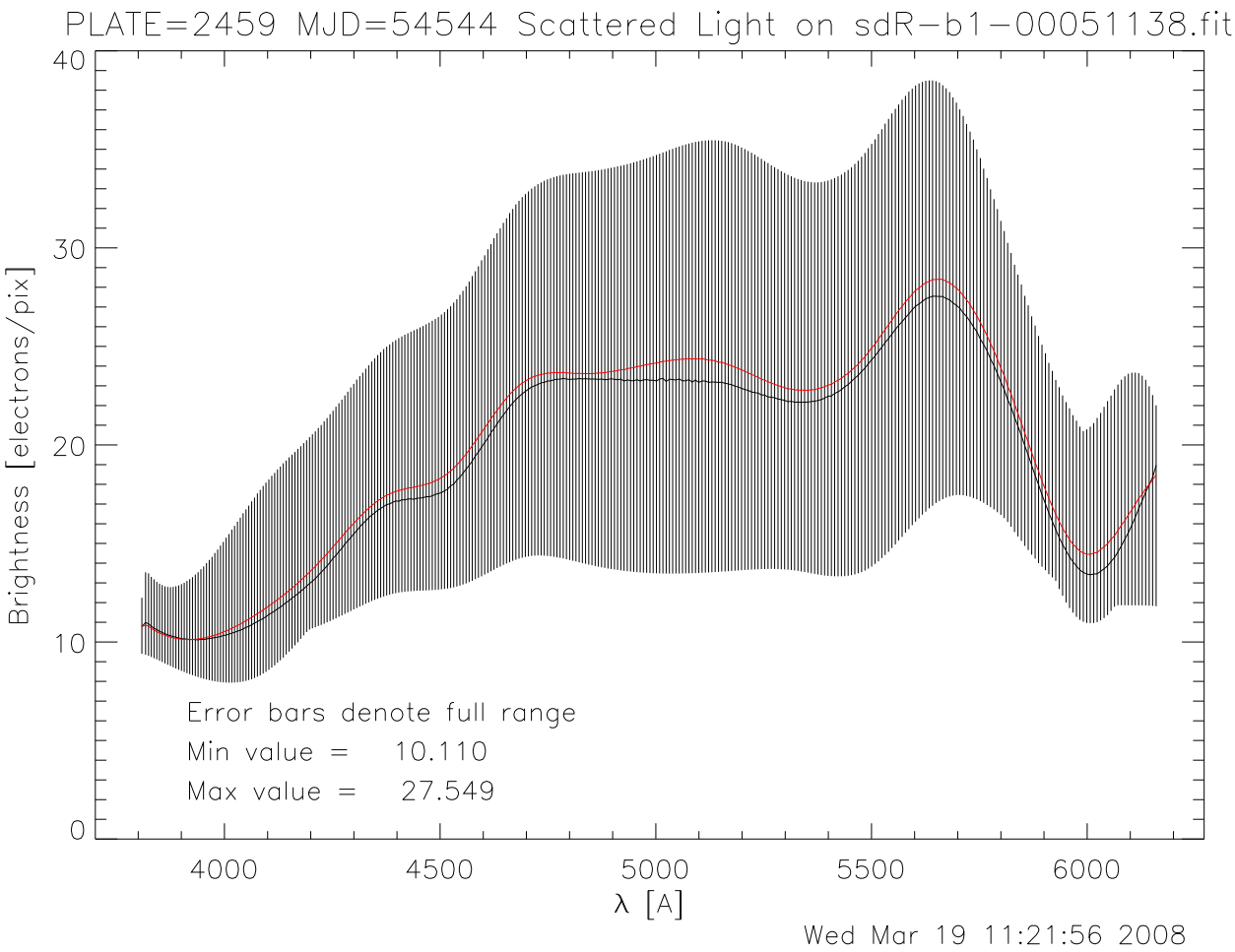

PLATE=2459 MJD=54544 sdR-b1-00051137.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.37 %
Fiber number
Focal Distance [mm]
Airmass

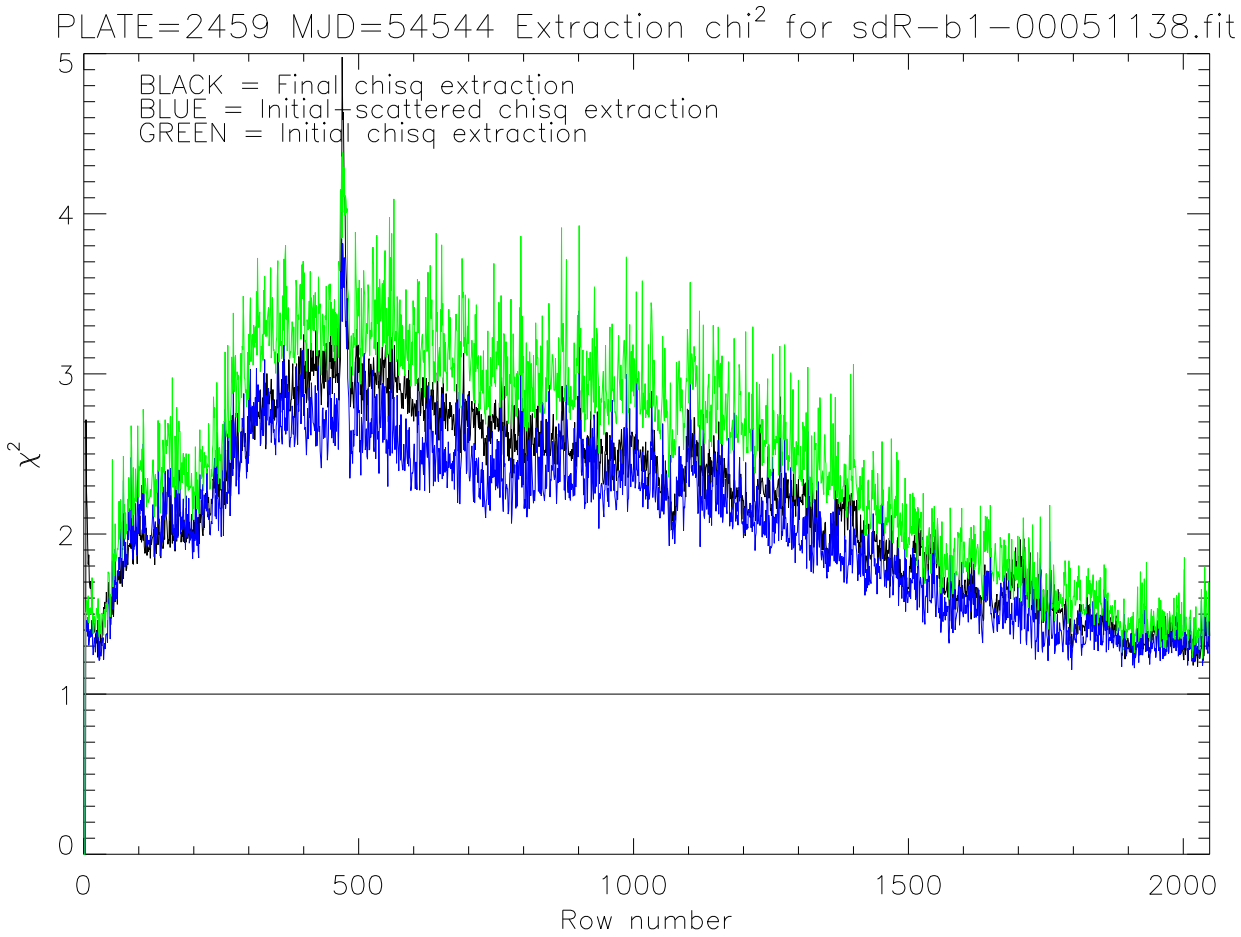

PLATE=2459 MJD=54544 Fiber−Flats for sdR−b1−00051139.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.258
Max value = 1.244
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 19 11:18:56 2008

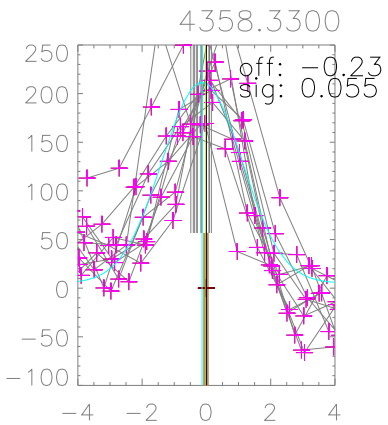

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR−b1−00051138.f
21.8
36.4
50.9
65.5
Y [pix]
X [pix]
0
500
1000
1500
2000

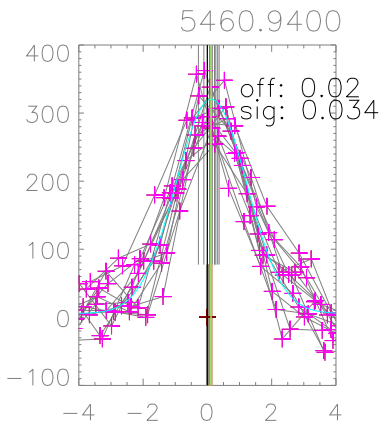

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-b1-00051138.f
Brightness [electrons/pix]
80
60
40
20
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 23.686
Max value = 60.004
Wed Mar 19 11:19:41 2008

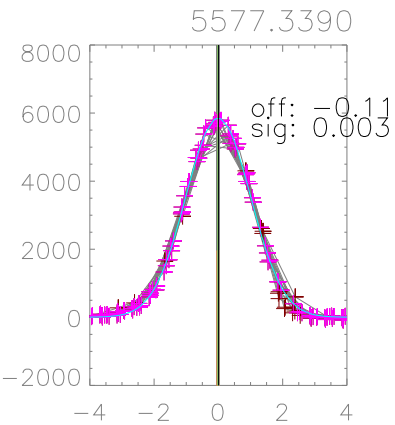

PLATE=2459 MJD=54544 Scattered Light on sdR-b1-00051138.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
10.9
18.2
25.5
0

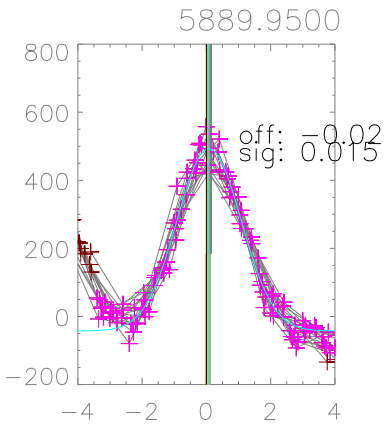

PLATE=2459 MJD=54544 Scattered Light on sdR-b1-00051138.fit
Brightness [electrons/pix]
40
30
20
10
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 10.110
Max value = 27.549
Wed Mar 19 11:21:56 2008

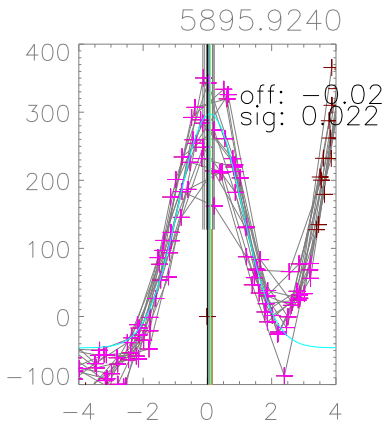

PLATE=2459 MJD=54544 Extraction chi^2 for sdR-b1-00051138.fit
BLACK = Final chisq extraction
BLUE = Initial+scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

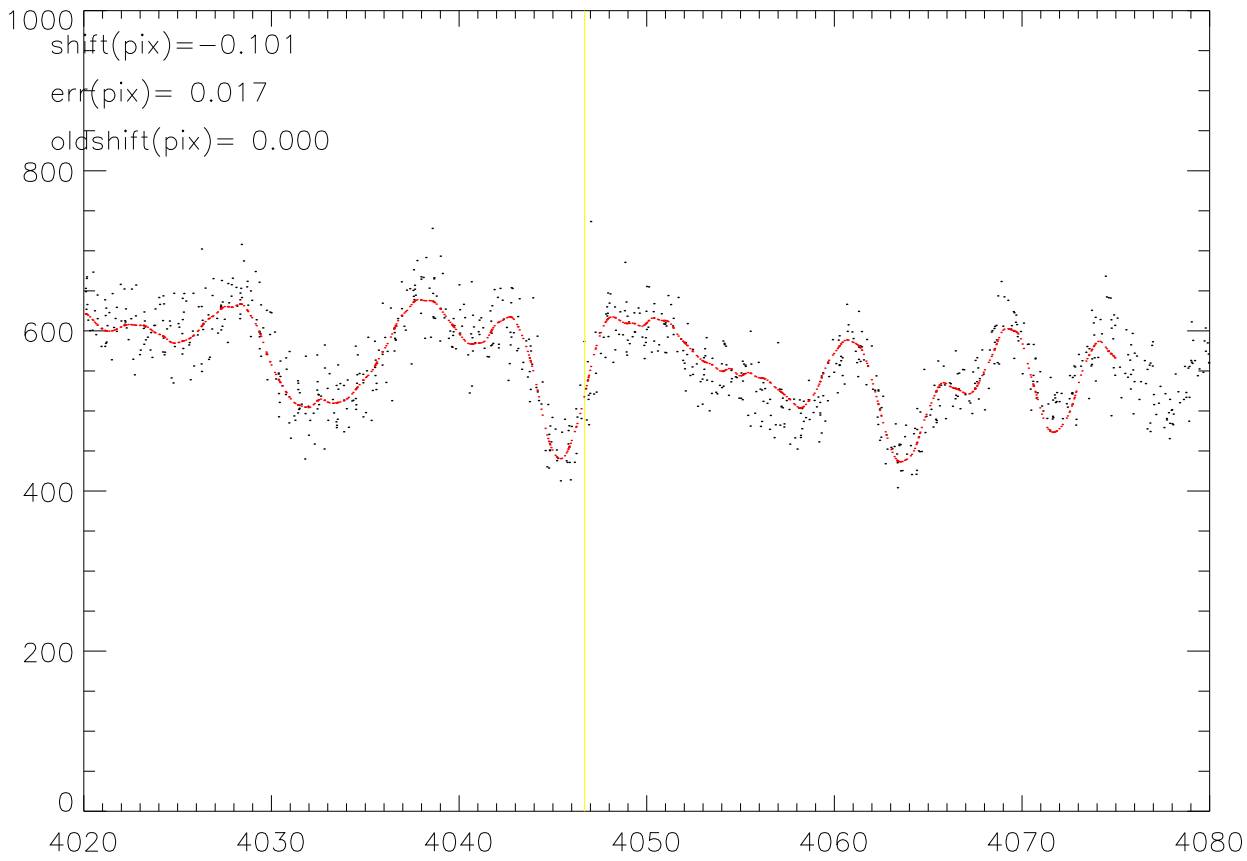

4358.3300
off: −0.23
sig: 0.055

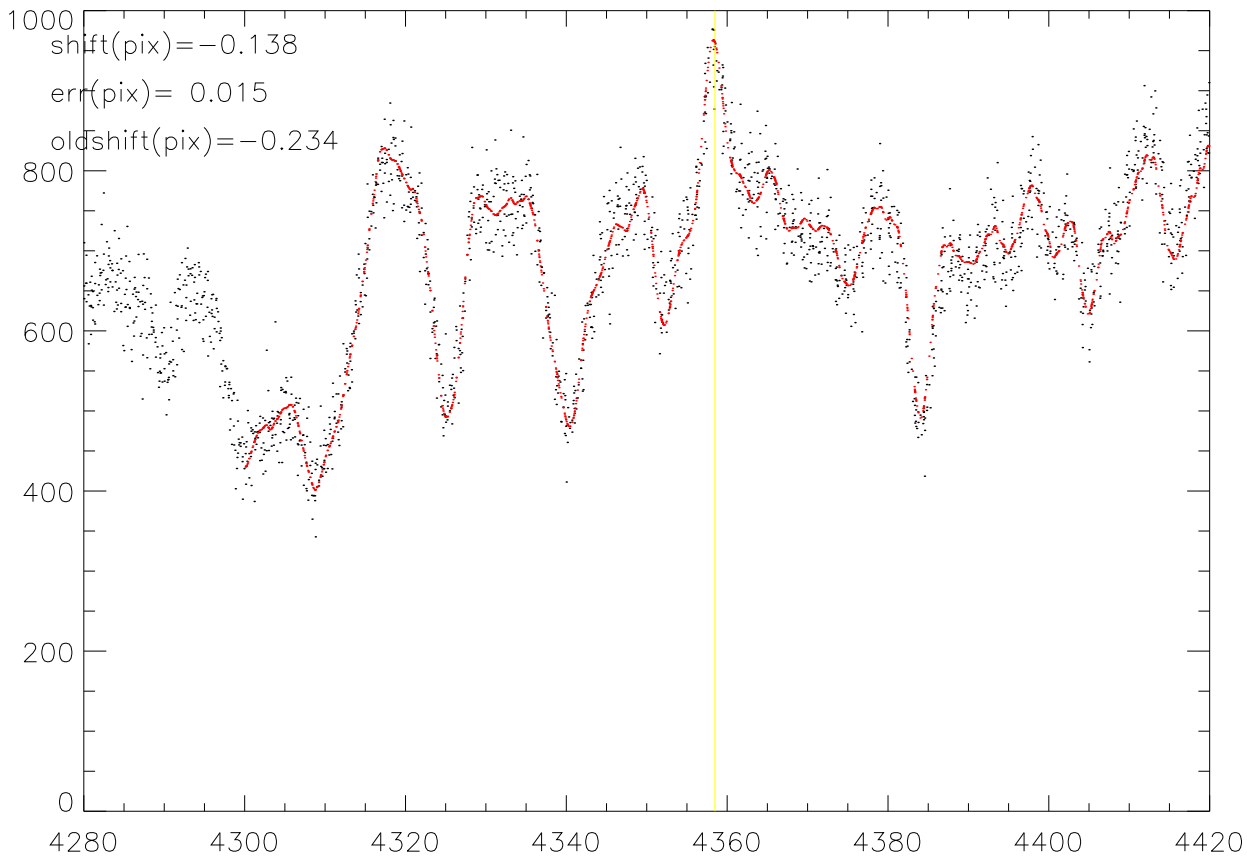

5460.9400
off: 0.02
sig: 0.034

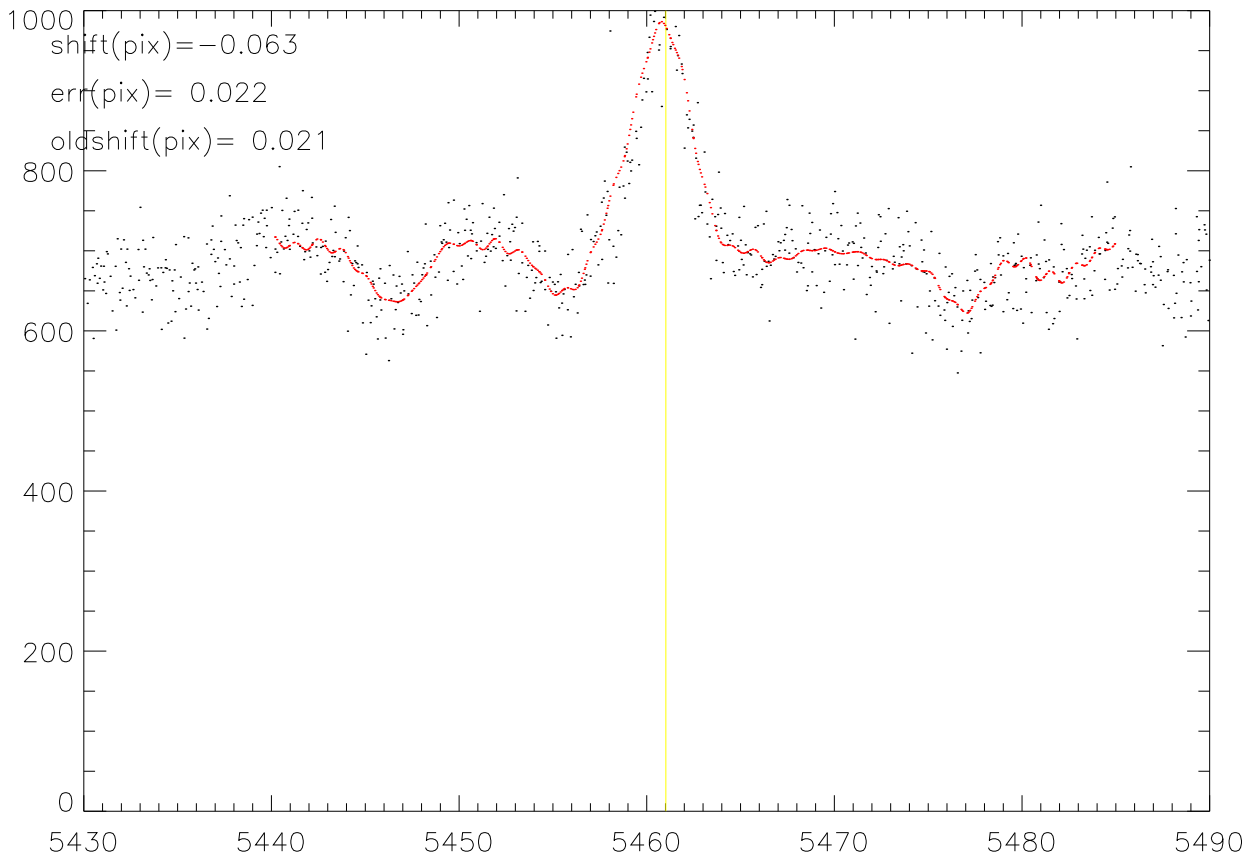

5577.3390
off: −0.11
sig: 0.003

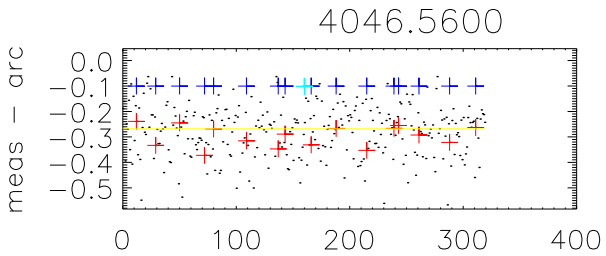

5889.9500
off: −0.02
sig: 0.015

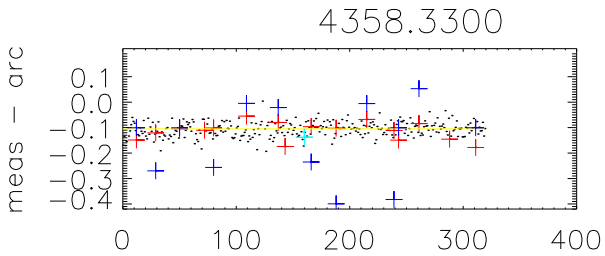

5895.9240
off: −0.02
sig: 0.022

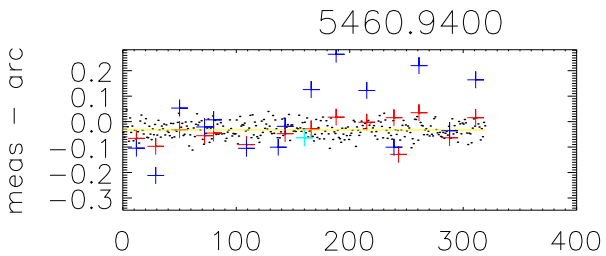

shift(pix)=−0.101
err(pix)= 0.017
oldshift(pix)= 0.000
1000
800
600
400
200
0
4020
4030
4040
4050
4060
4070
4080

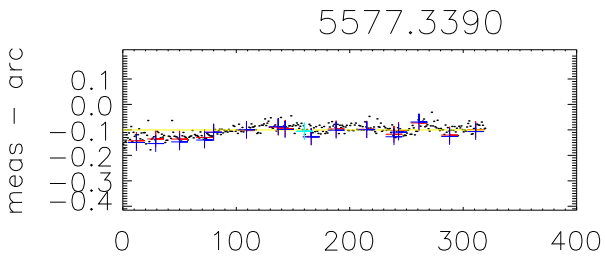

shift(pix)=−0.138
err(pix)= 0.015
oldshift(pix)=−0.234
1000
800
600
400
200
0
4280
4300
4320
4340
4360
4380
4400
4420

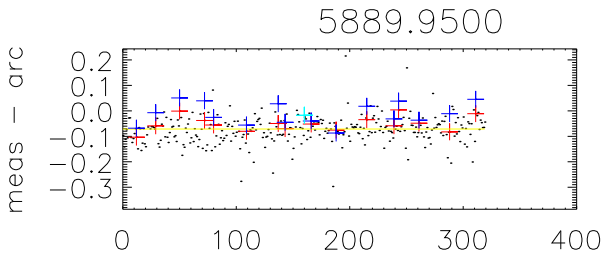

shift(pix)=−0.063
err(pix)= 0.022
oldshift(pix)= 0.021
1000
800
600
400
200
0
5430
5440
5450
5460
5470
5480
5490

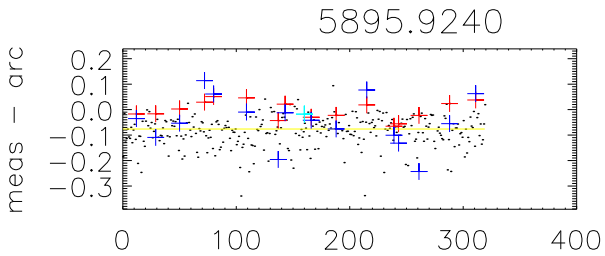

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

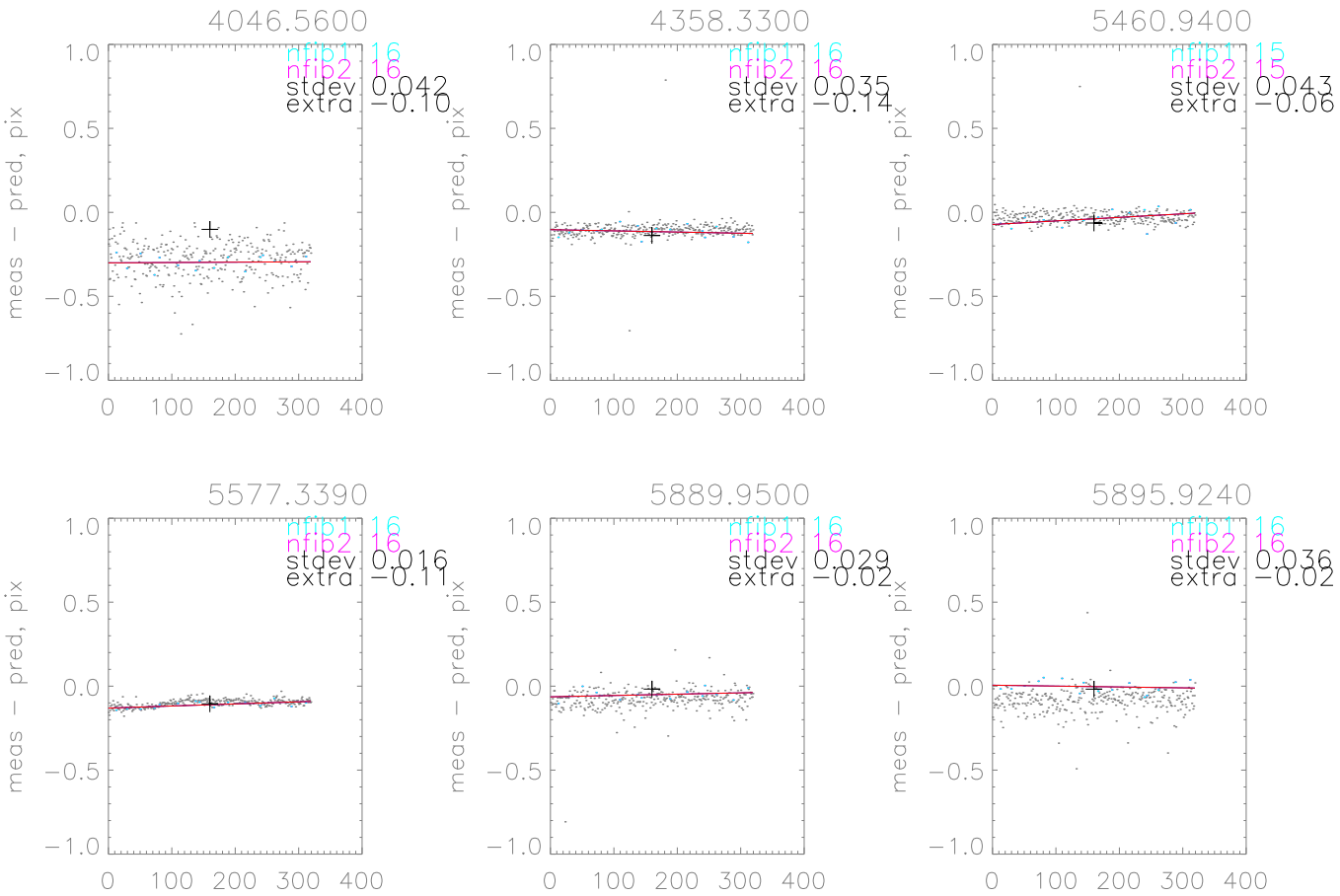

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

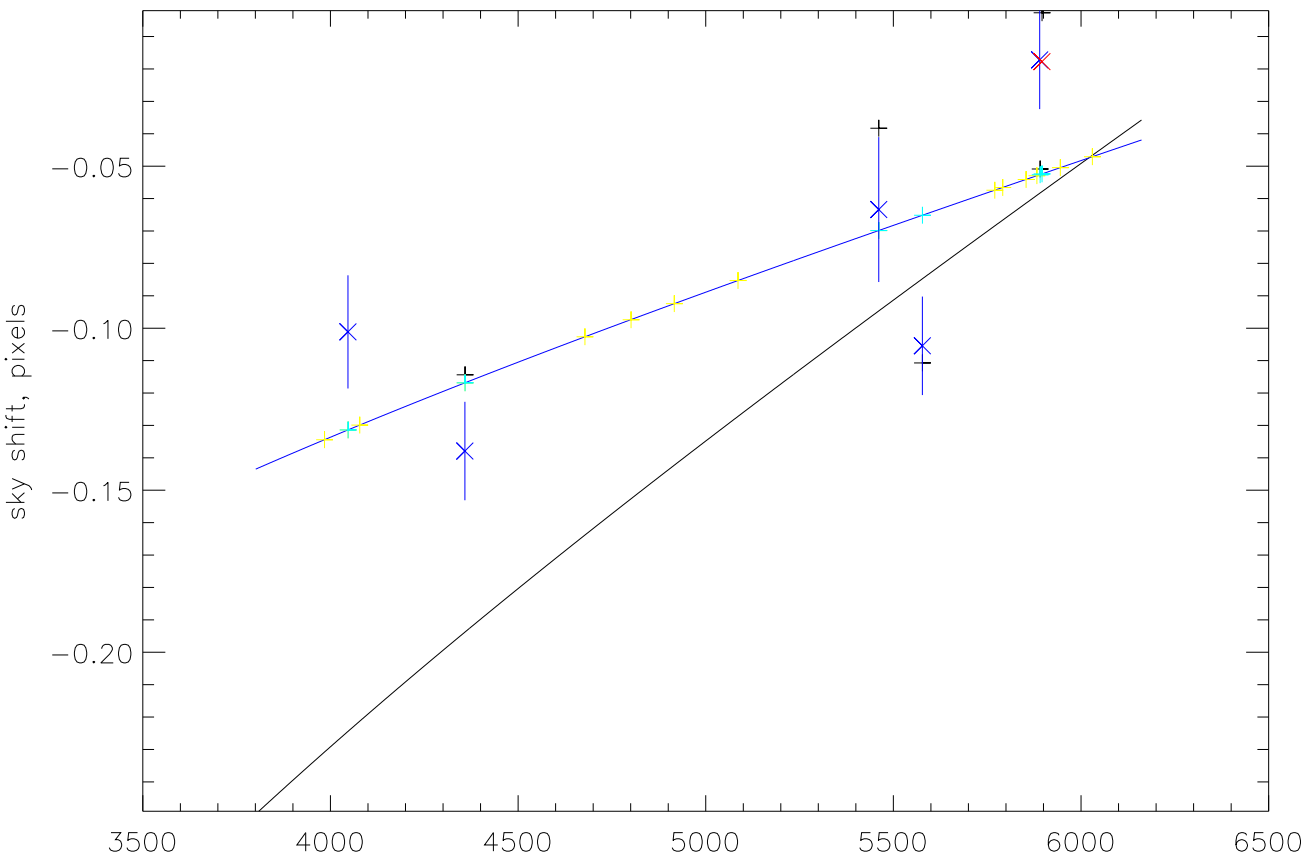

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

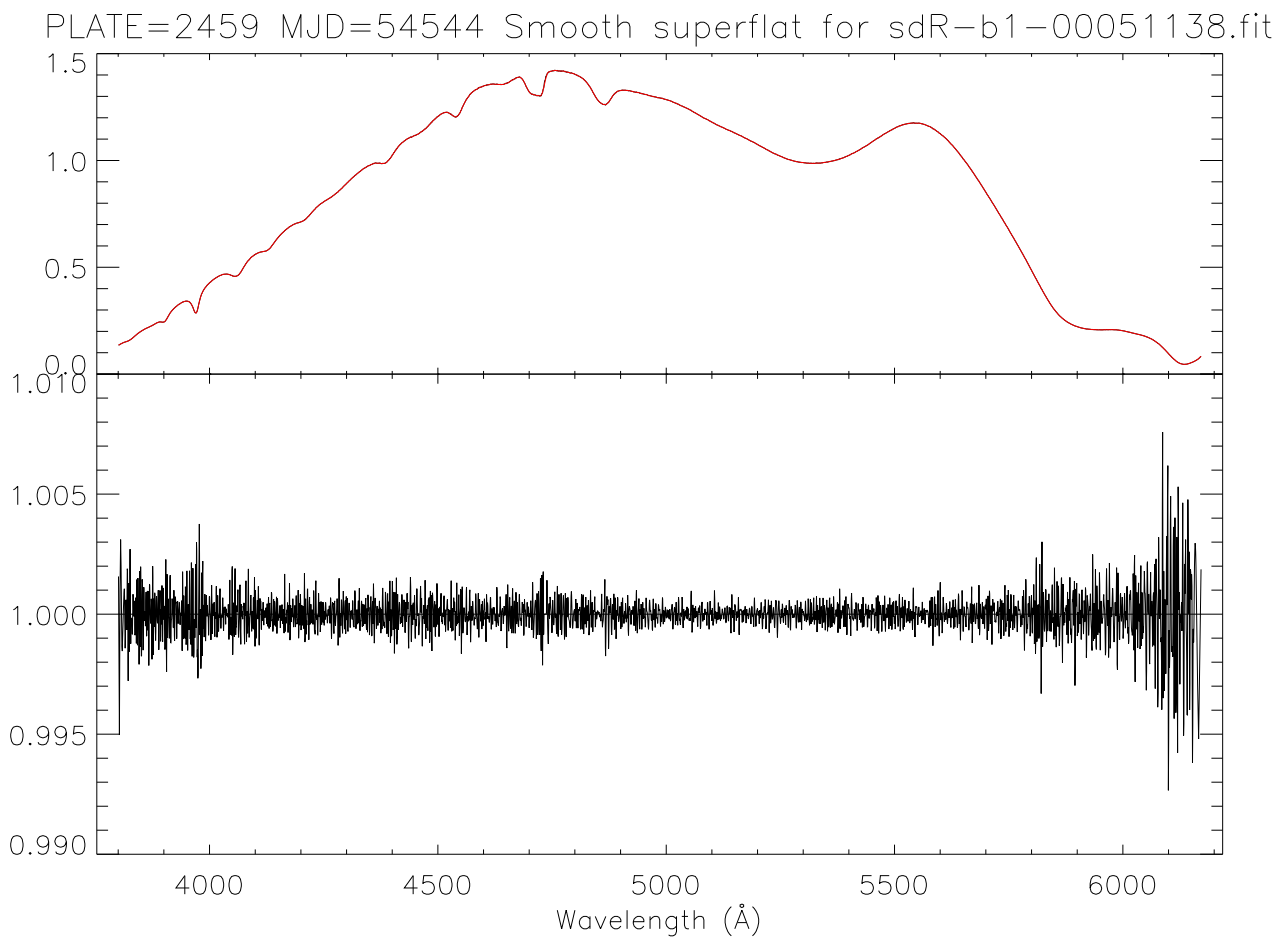

5889.9500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

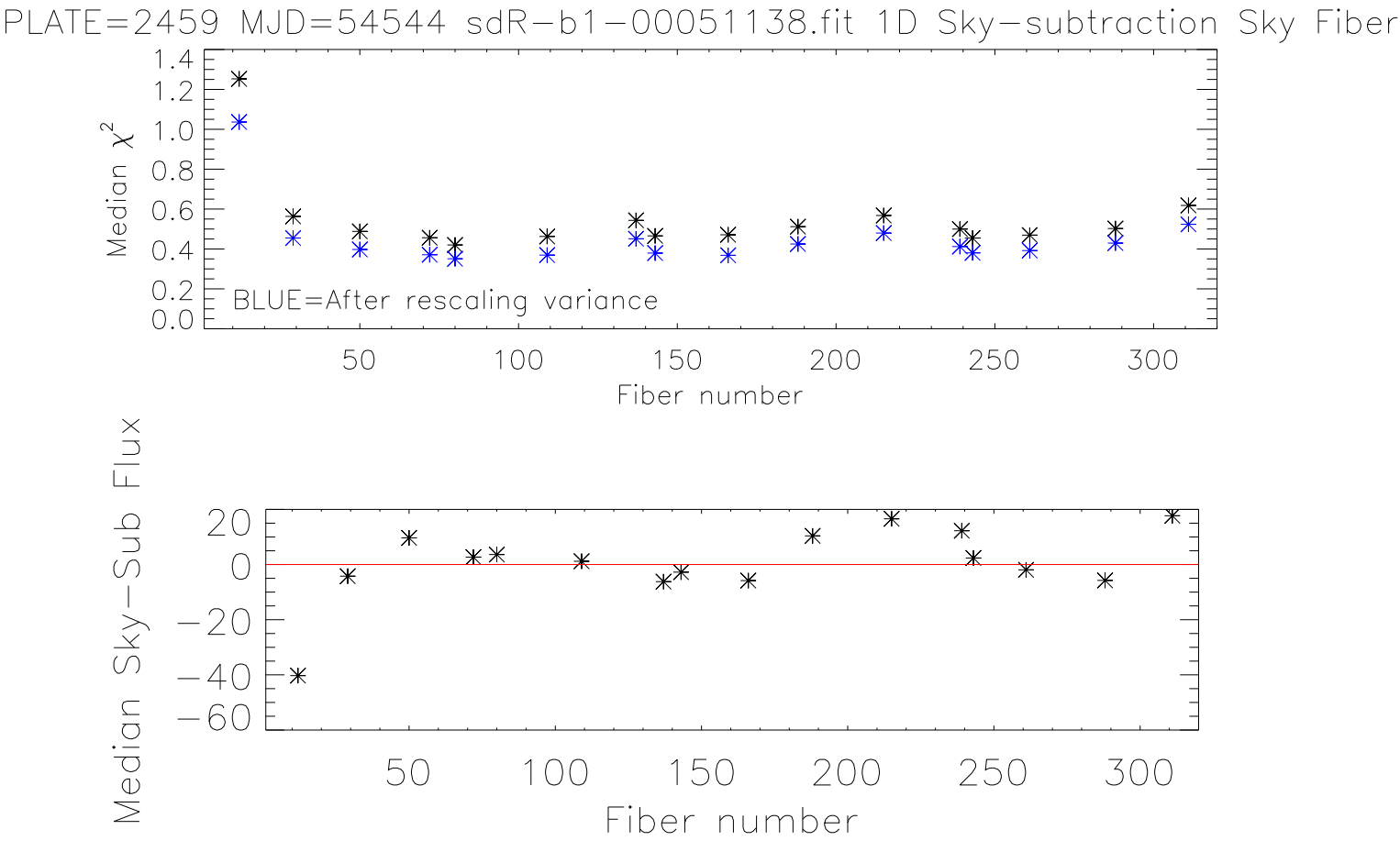

5895.9240
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

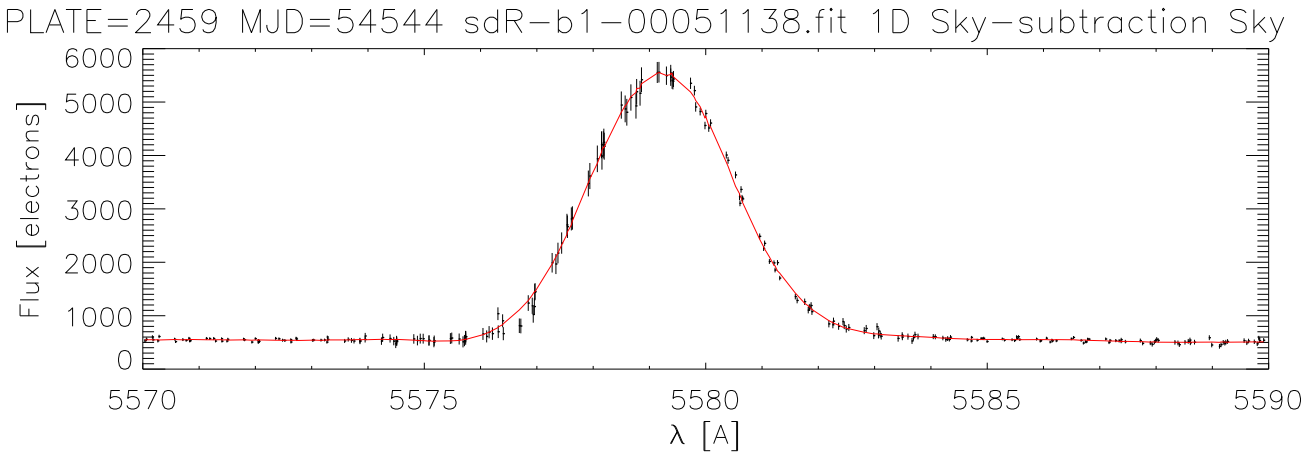

4046.5600
nfib1 16
nfib2 16
stdev 0.042
extra −0.10
4358.3300
nfib1 16
nfib2 16
stdev 0.035
extra −0.14
5460.9400
nfib1 15
nfib2 15
stdev 0.043
extra −0.06
5577.3390
nfib1 16
nfib2 16
stdev 0.016
extra −0.11
5889.9500
nfib1 16
nfib2 16
stdev 0.029
extra −0.02
5895.9240
nfib1 16
nfib2 16
stdev 0.036
extra −0.02
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

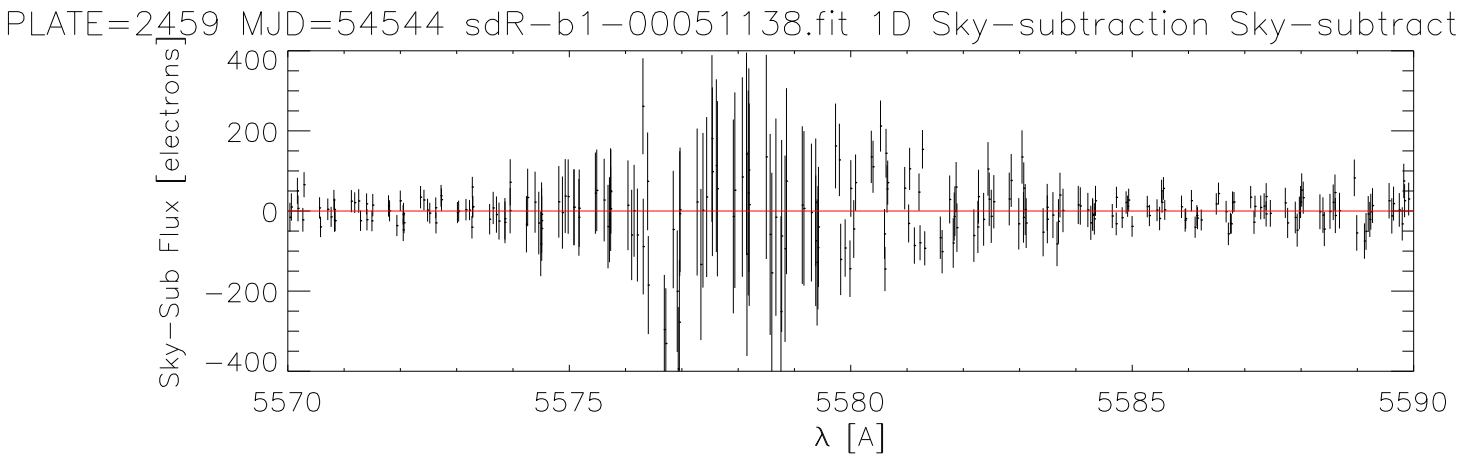

sky shift, pixels
−0.05
−0.10
−0.15
−0.20
3500
4000
4500
5000
5500
6000
6500

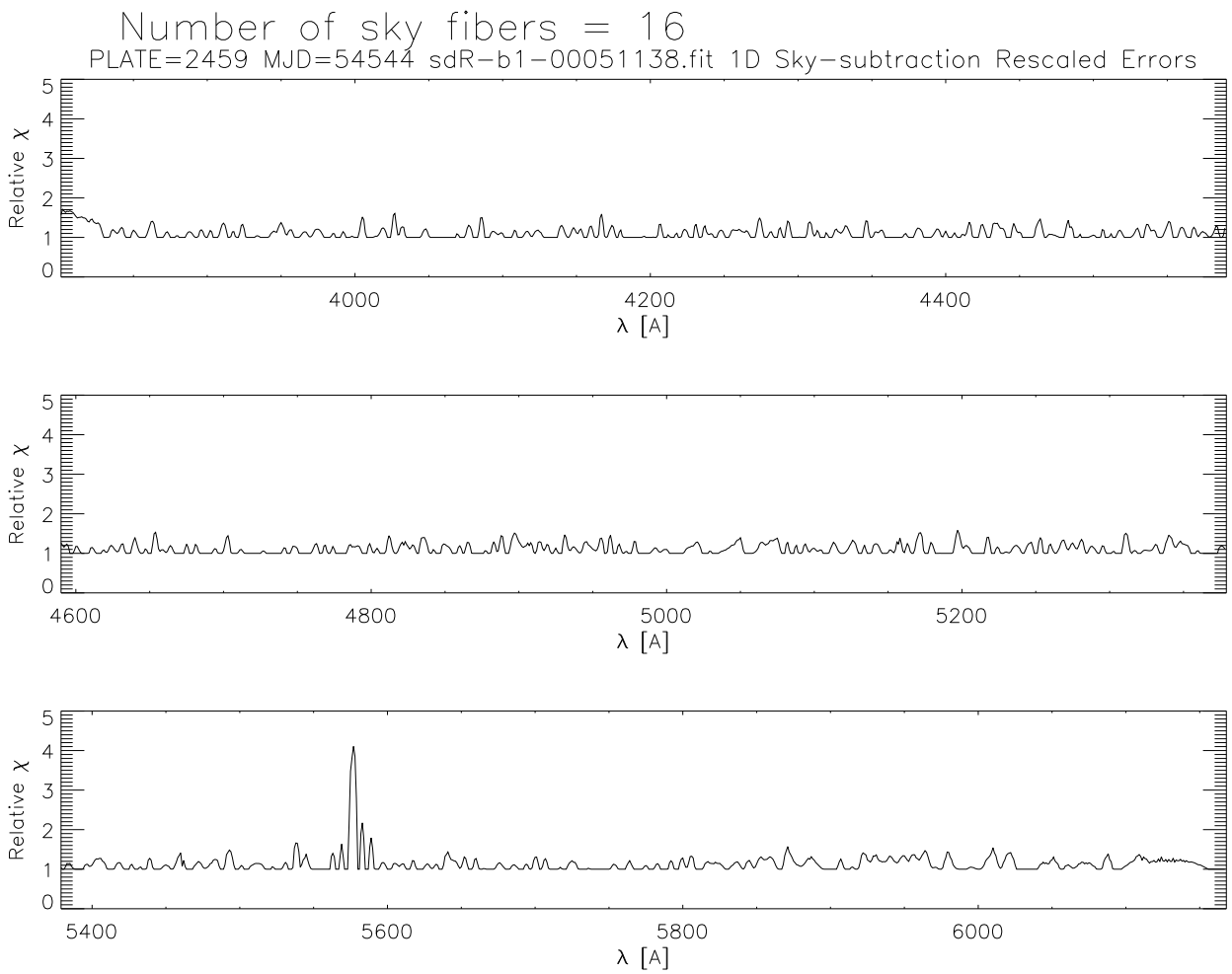
es= 0.0000

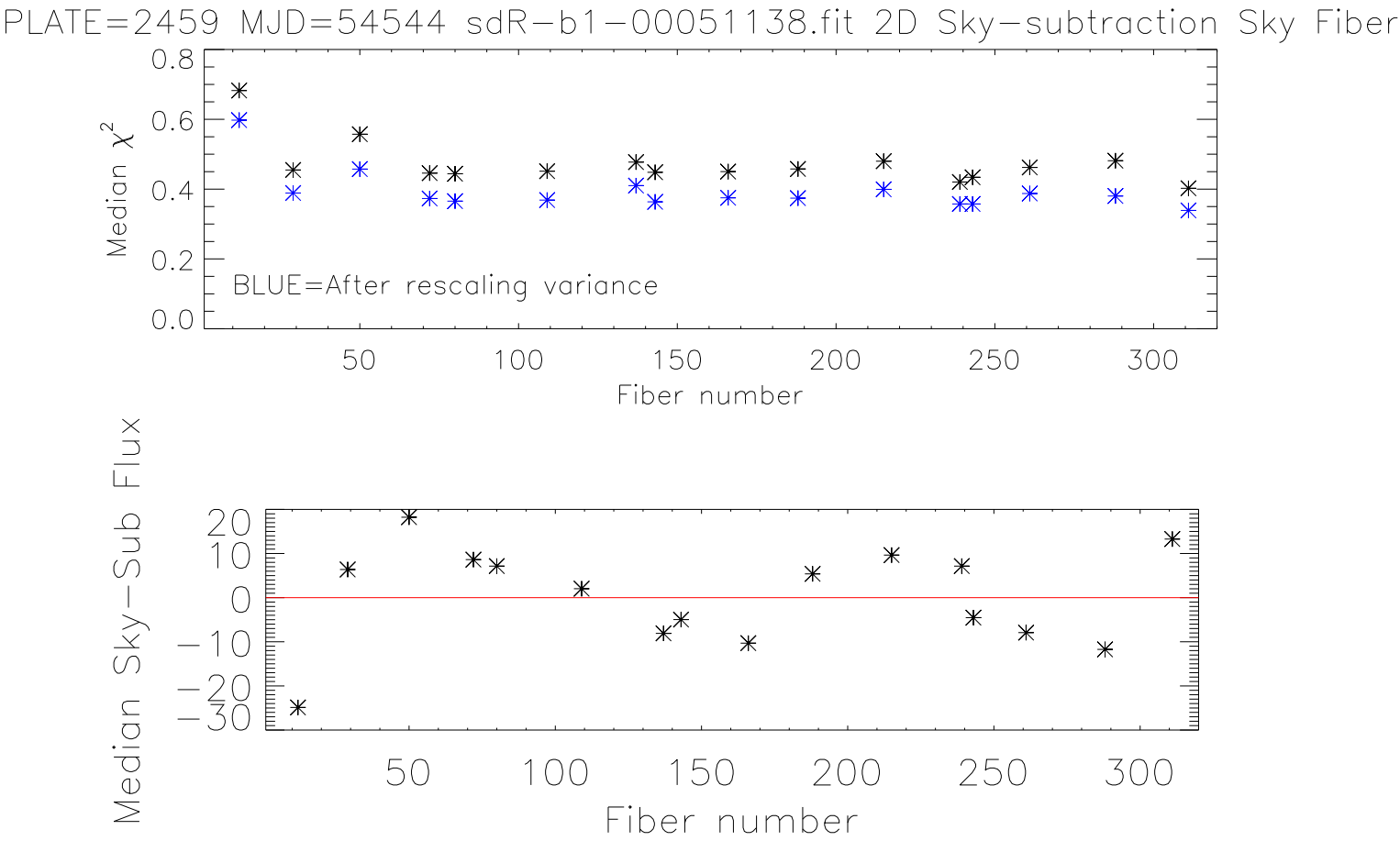

PLATE=2459 MJD=54544 Smooth superflat for sdR-b1-00051138.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

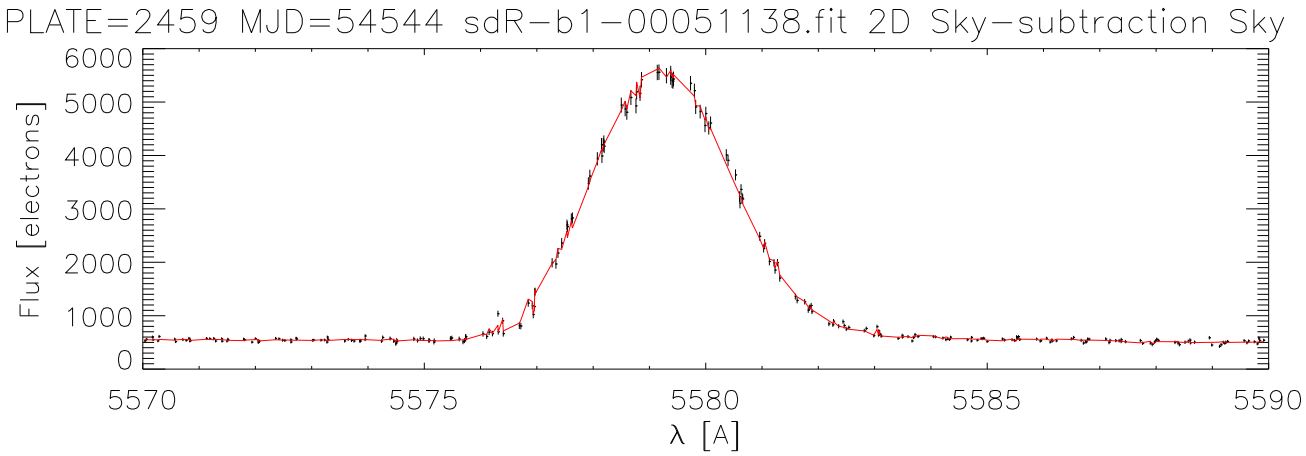

PLATE=2459 MJD=54544 sdR-b1-00051138.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

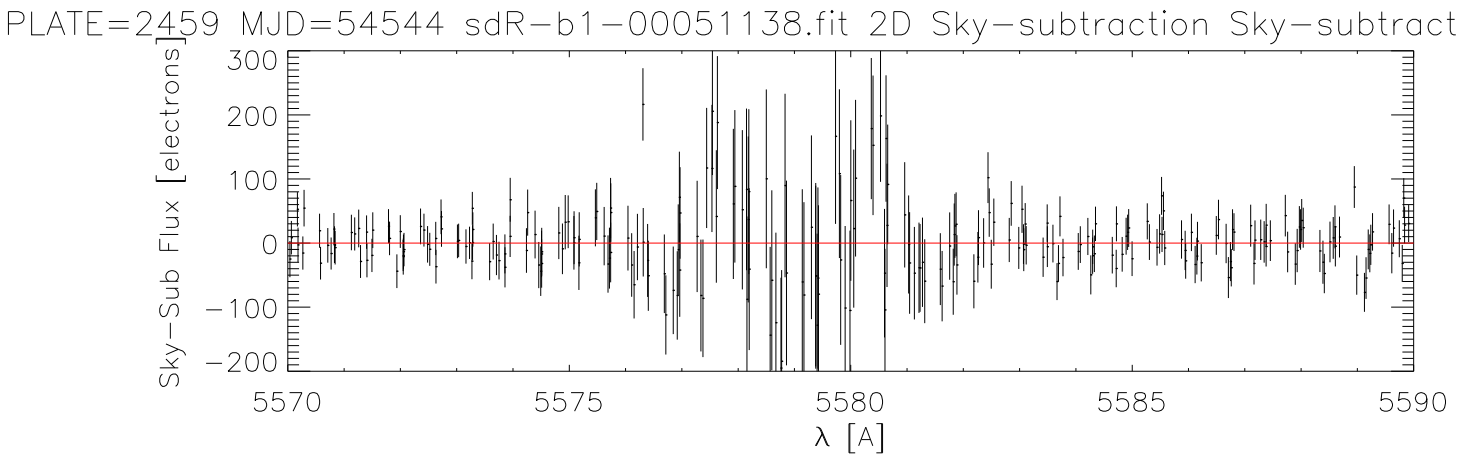

PLATE=2459 MJD=54544 sdR-b1-00051138.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

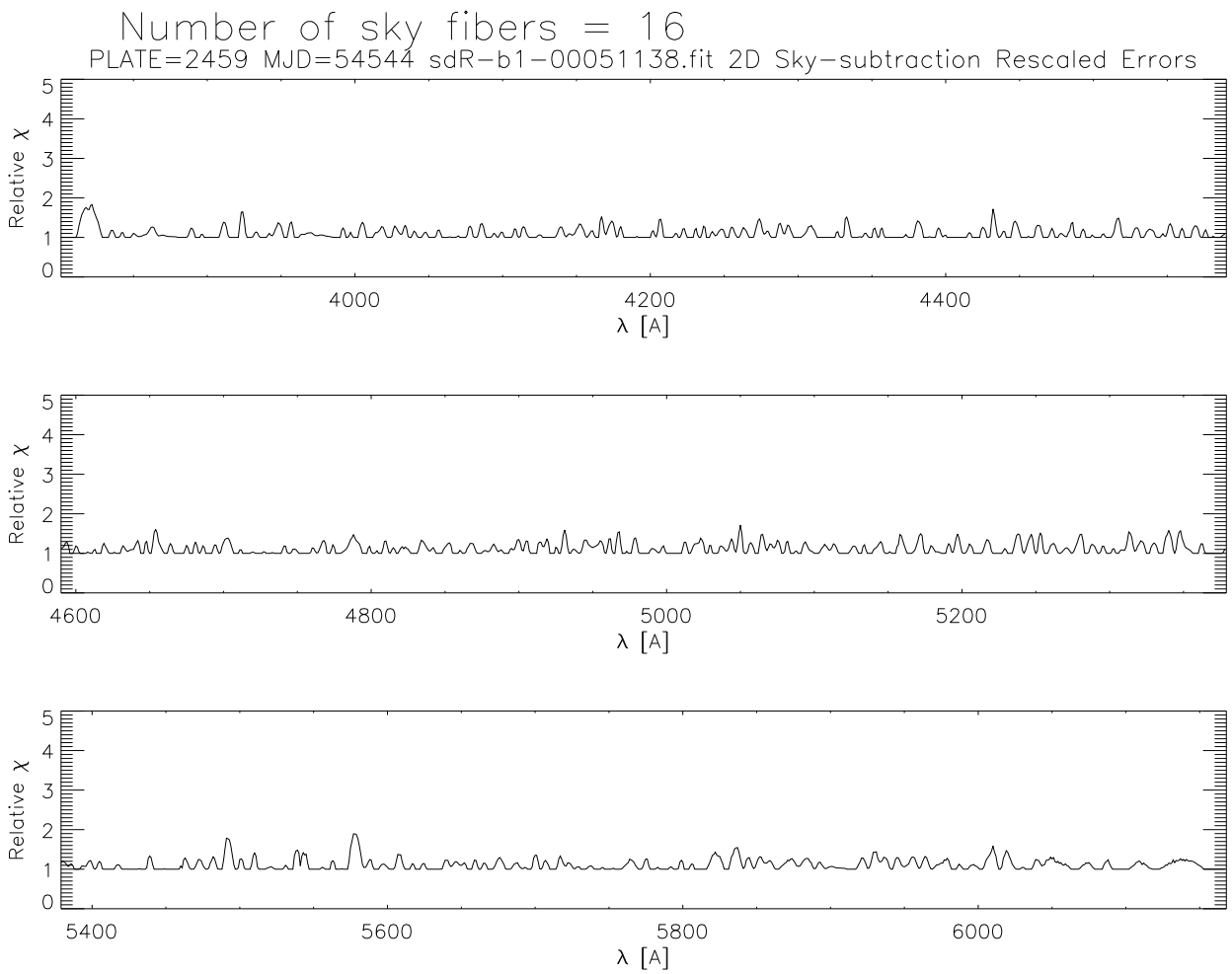

PLATE=2459 MJD=54544 sdR-b1-00051138.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

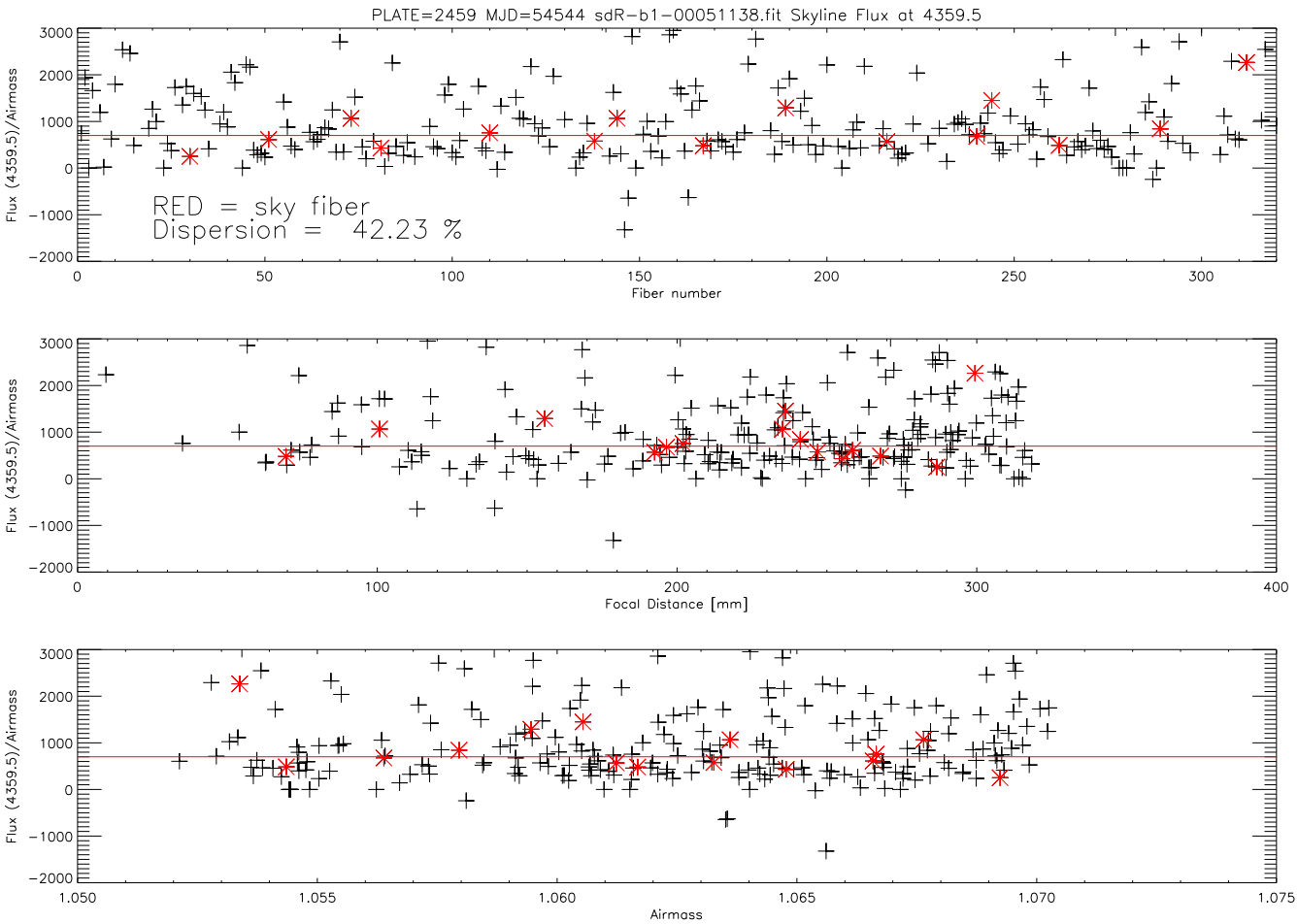

Number of sky fibers = 16
PLATE=2459 MJD=54544 sdR-b1-00051138.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

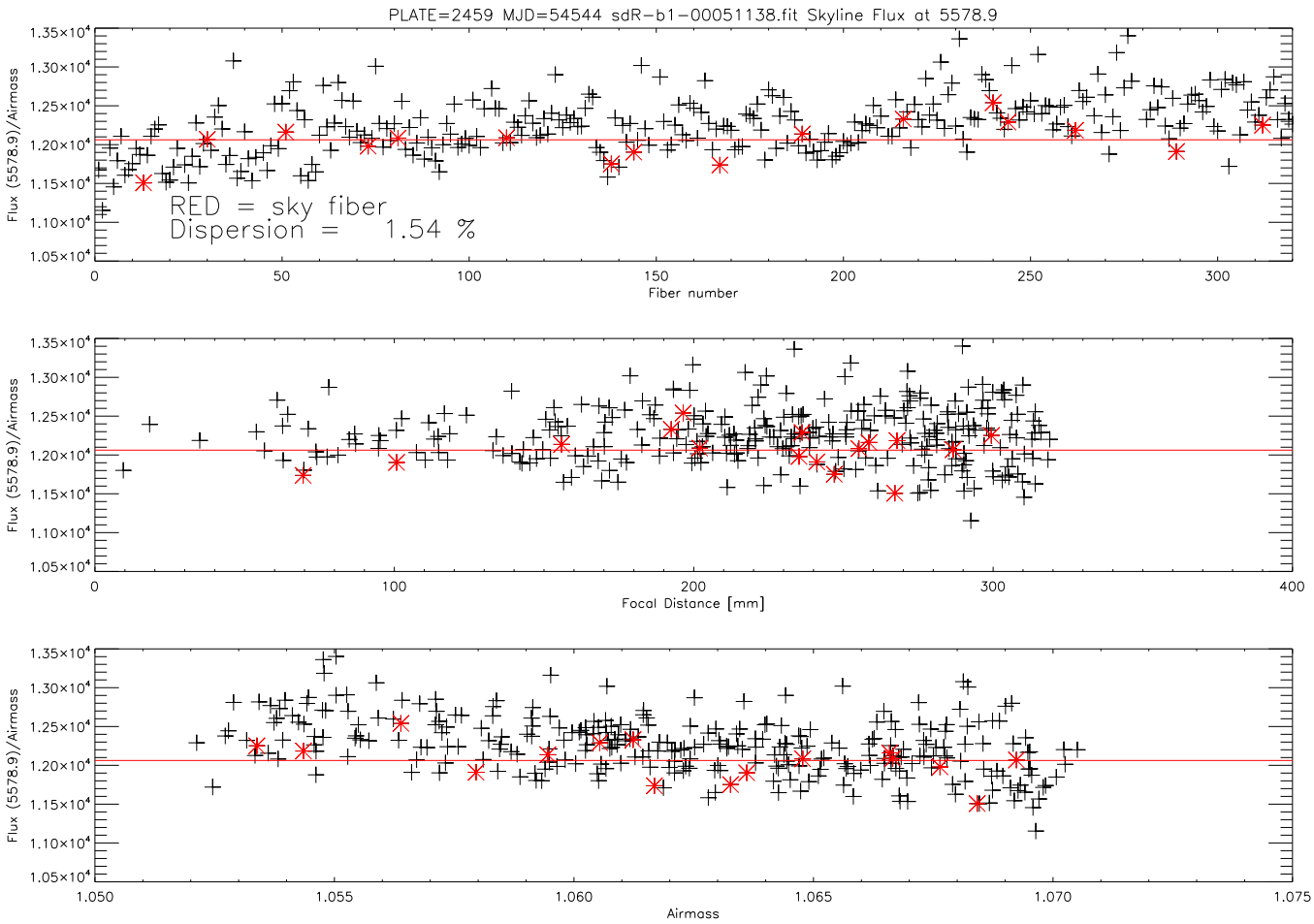

PLATE=2459 MJD=54544 sdR-b1-00051138.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
10
0
-10
-20
-30
50
100
150
200
250
300
Fiber number

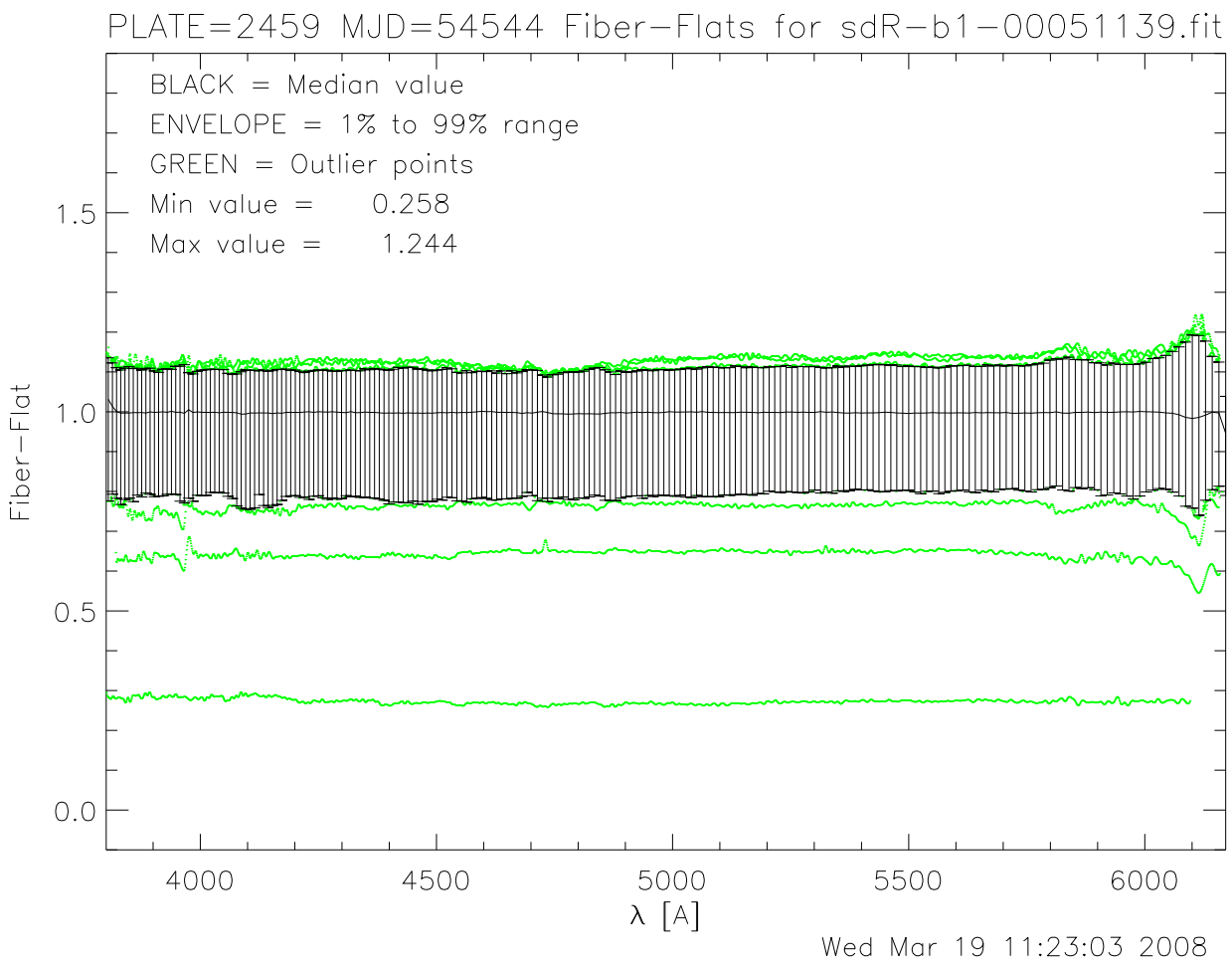

PLATE=2459 MJD=54544 sdR-b1-00051138.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

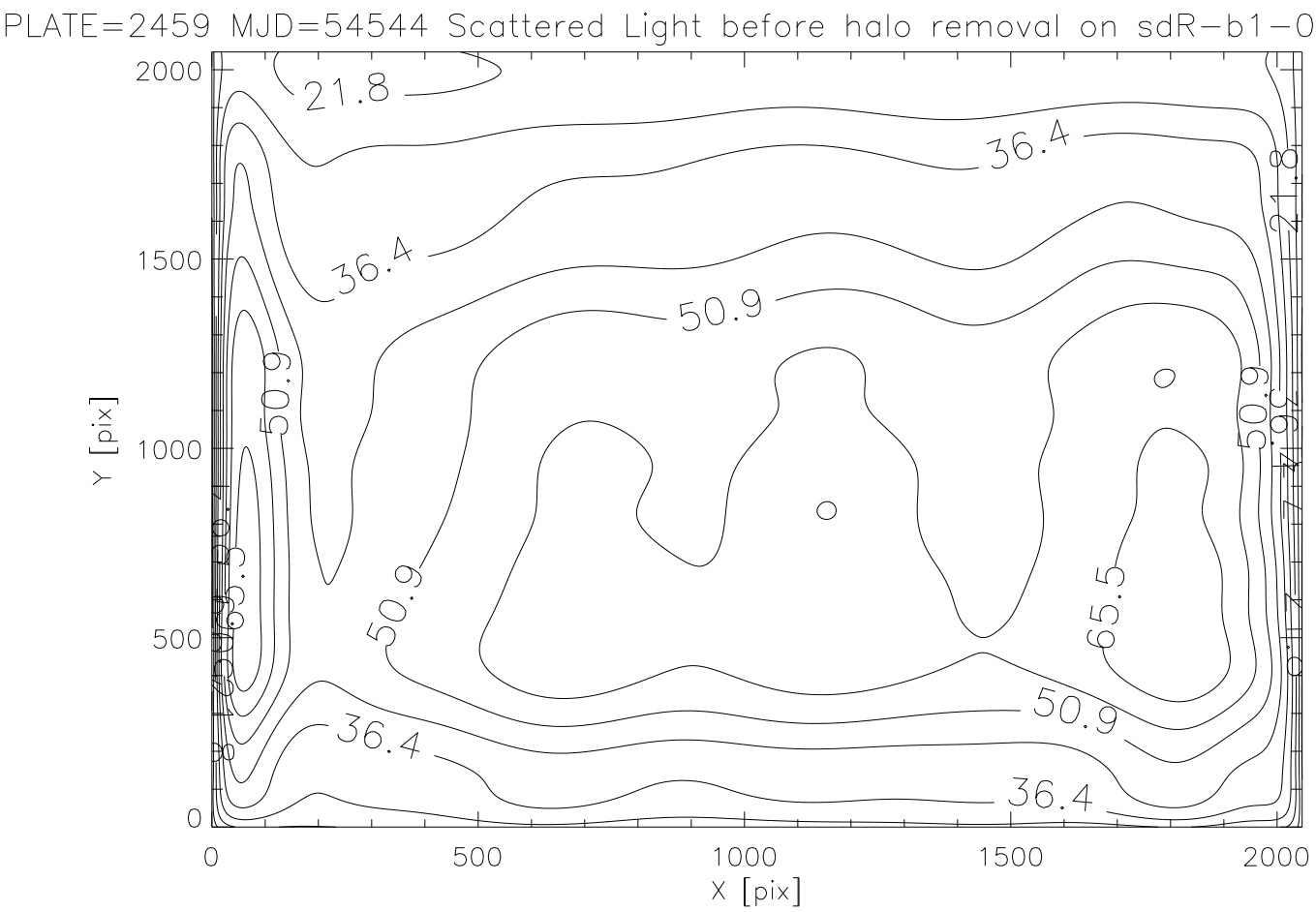

PLATE=2459 MJD=54544 sdR-b1-00051138.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

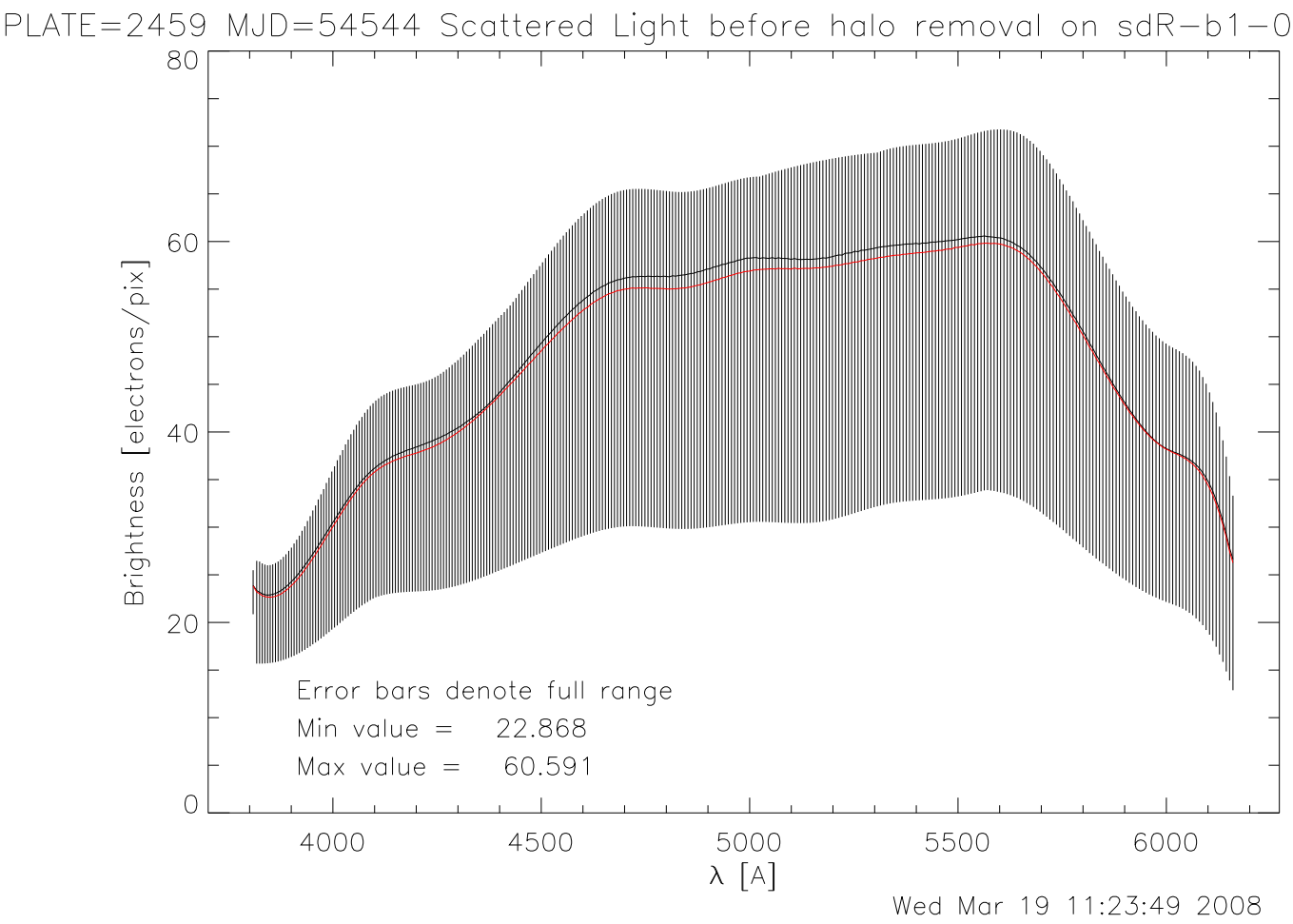

Number of sky fibers = 16
PLATE=2459 MJD=54544 sdR-b1-00051138.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

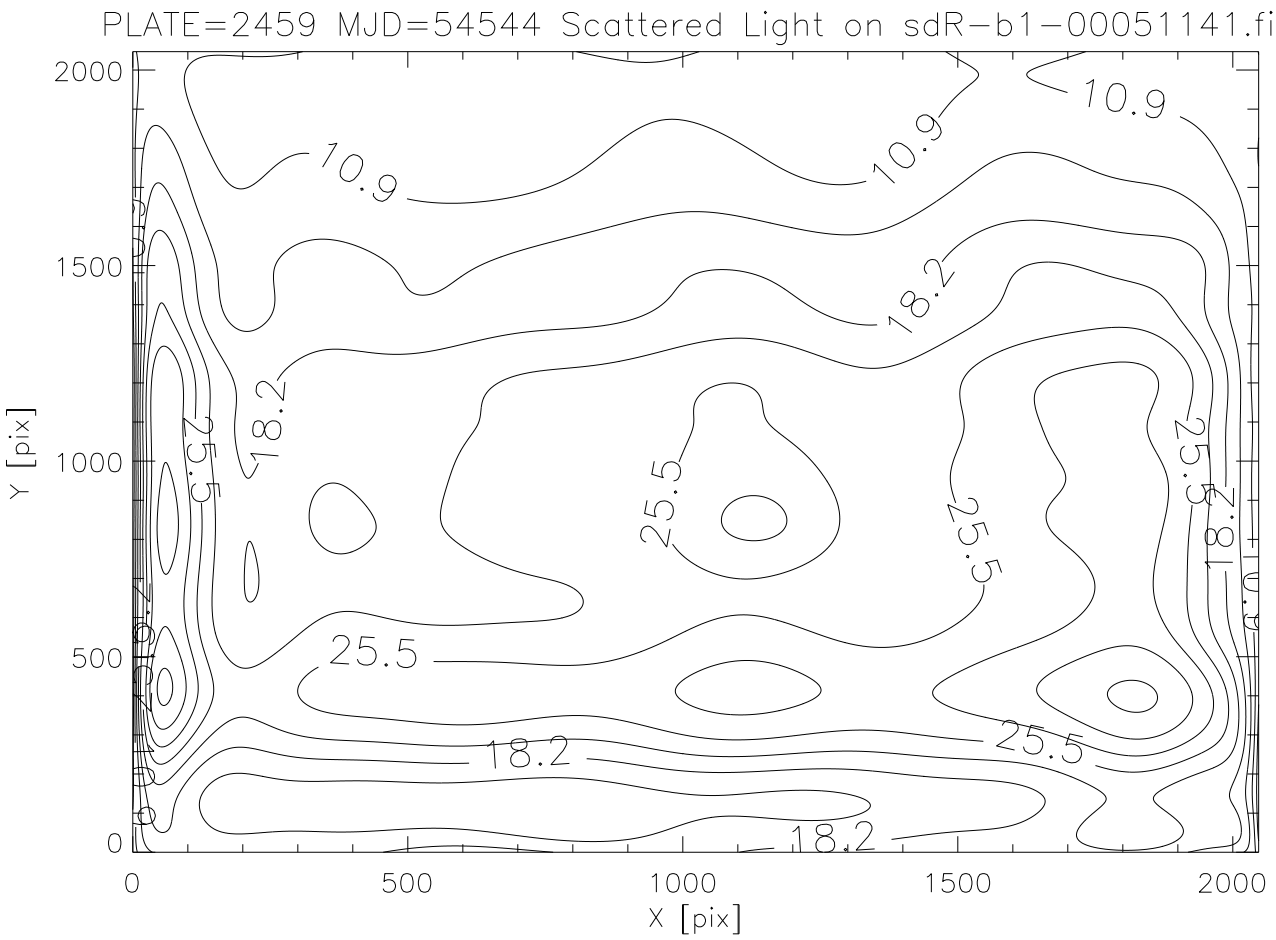

PLATE=2459 MJD=54544 sdR-b1-00051138.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 42.23 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

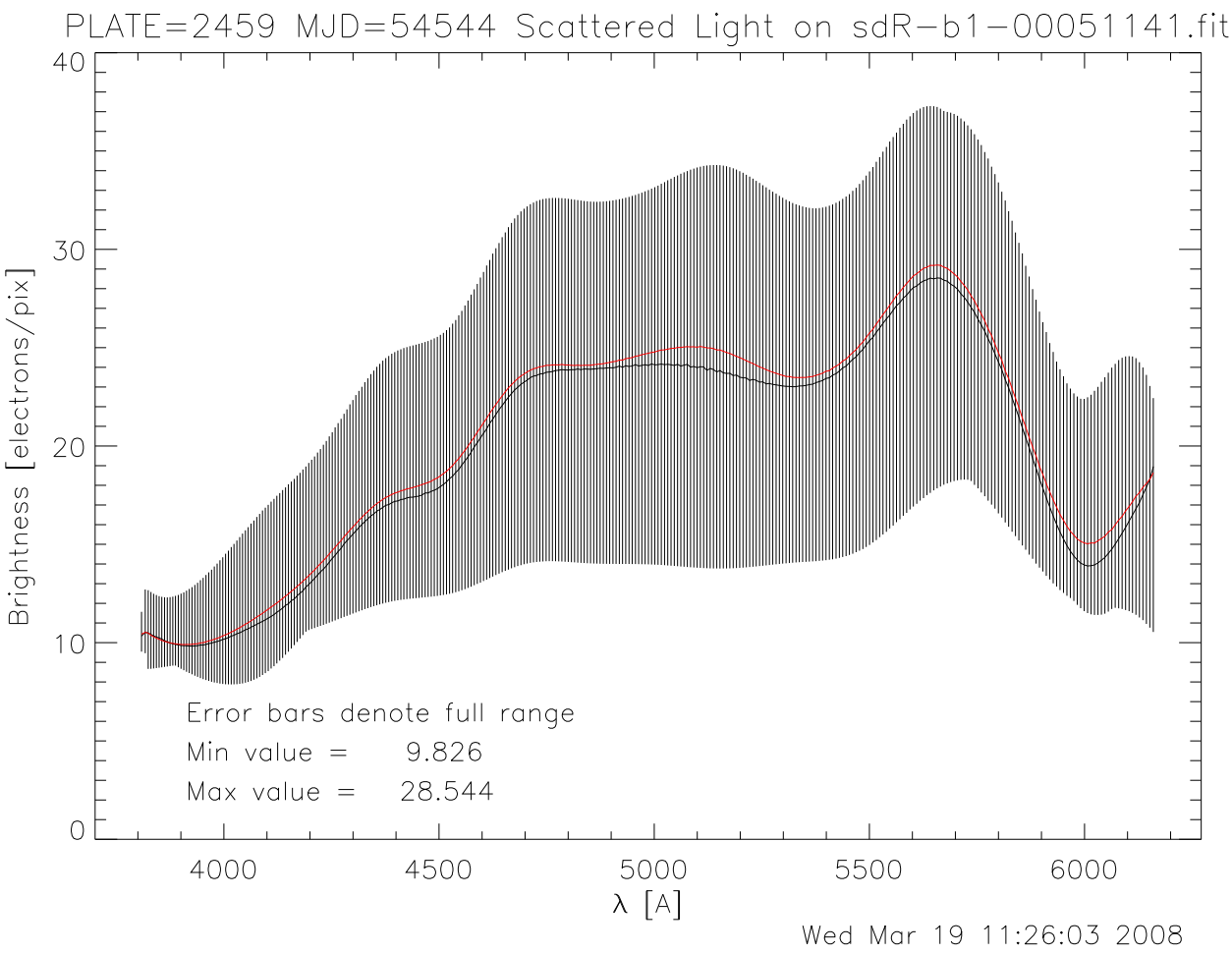

PLATE=2459 MJD=54544 sdR-b1-00051138.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.54 %
Fiber number
Focal Distance [mm]
Airmass

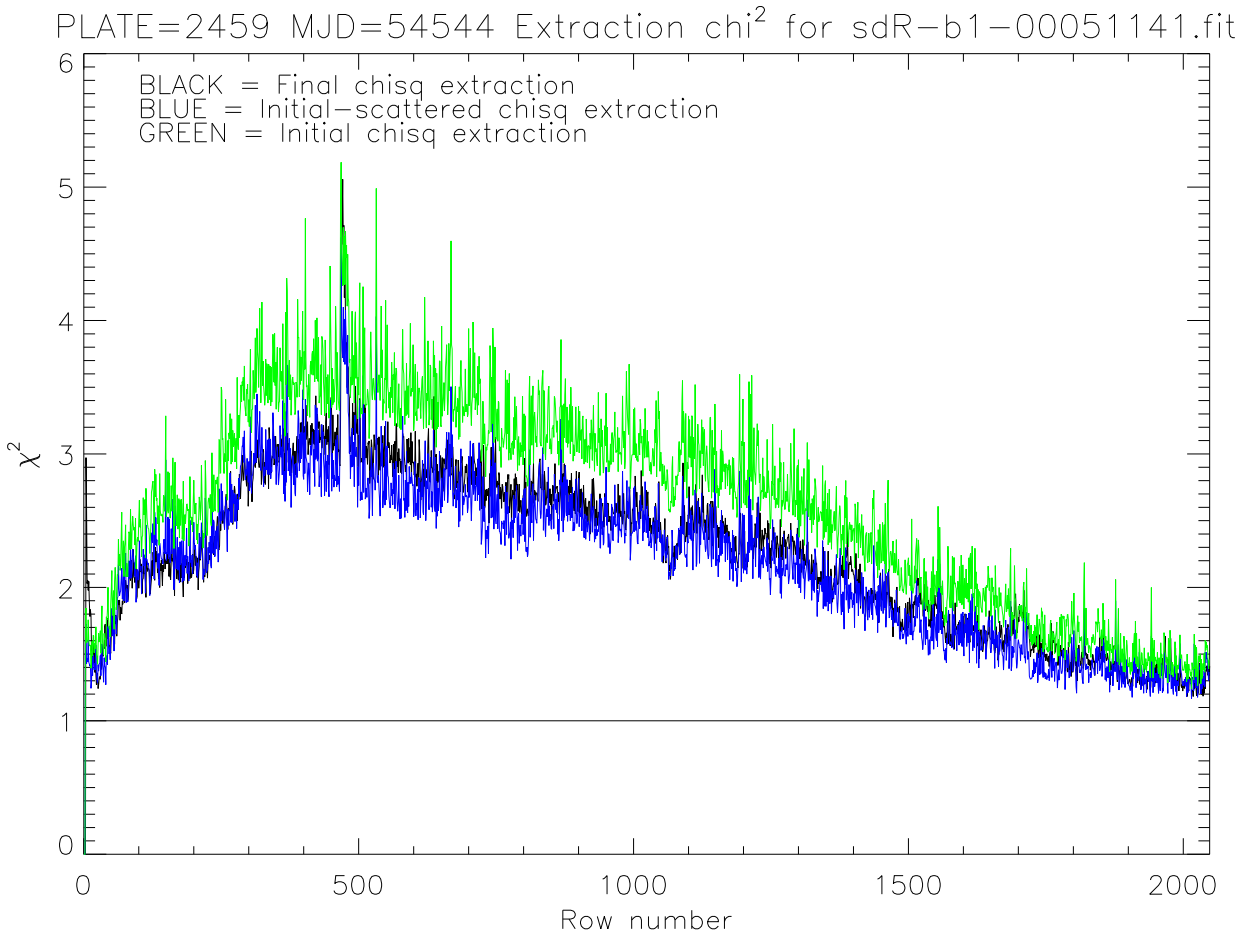

PLATE=2459 MJD=54544 Fiber−Flats for sdR−b1−00051139.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.258
Max value = 1.244
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 19 11:23:03 2008

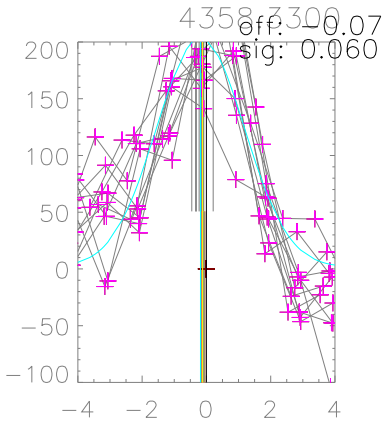

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR−b1−00051141.f
21.8
36.4
50.9
65.5
Y [pix]
X [pix]
0
500
1000
1500
2000

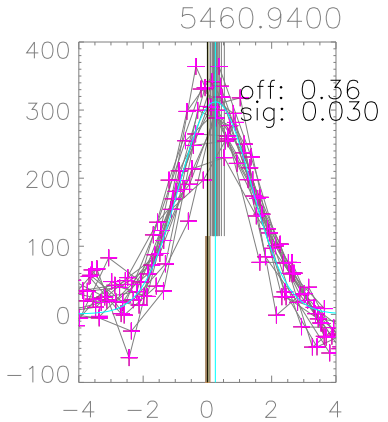

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR−b1−00051141.f
Brightness [electrons/pix]
80
60
40
20
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 22.868
Max value = 60.591
Wed Mar 19 11:23:49 2008

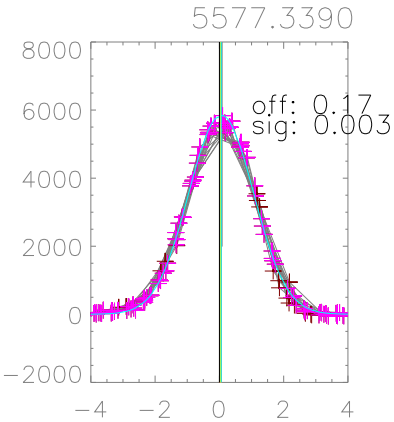

PLATE=2459 MJD=54544 Scattered Light on sdR-b1-00051141.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
10.9
18.2
25.5

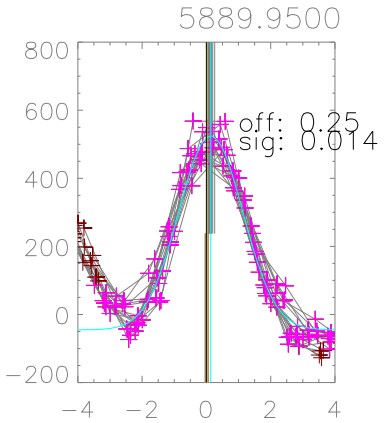

PLATE=2459 MJD=54544 Scattered Light on sdR-b1-00051141.fit
Brightness [electrons/pix]
40
30
20
10
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 9.826
Max value = 28.544
Wed Mar 19 11:26:03 2008

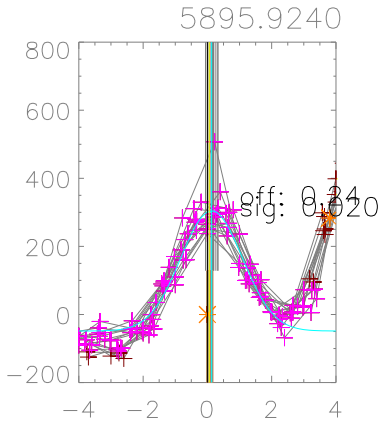

PLATE=2459 MJD=54544 Extraction chi^2 for sdR-b1-00051141.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
6
0
500
1000
1500
2000

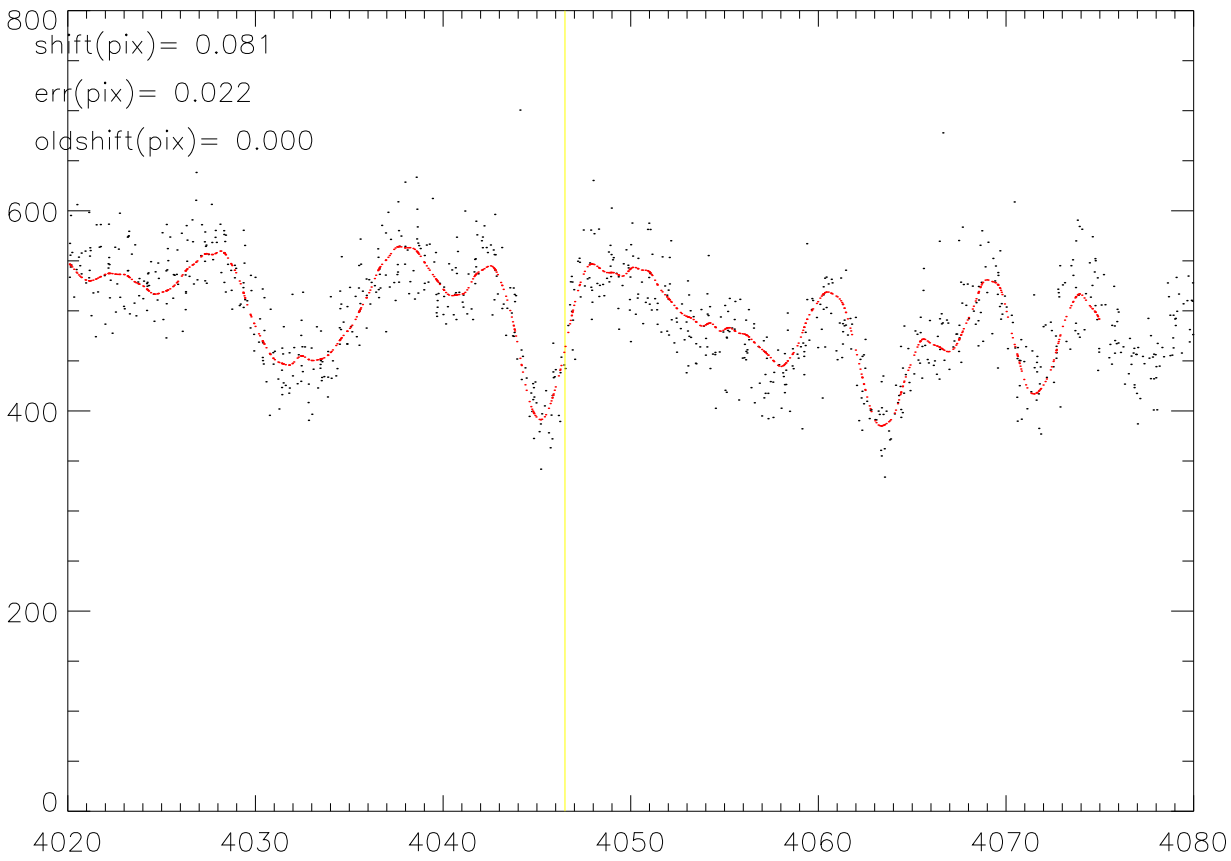

4358.3300
off: −0.07
sig: 0.060

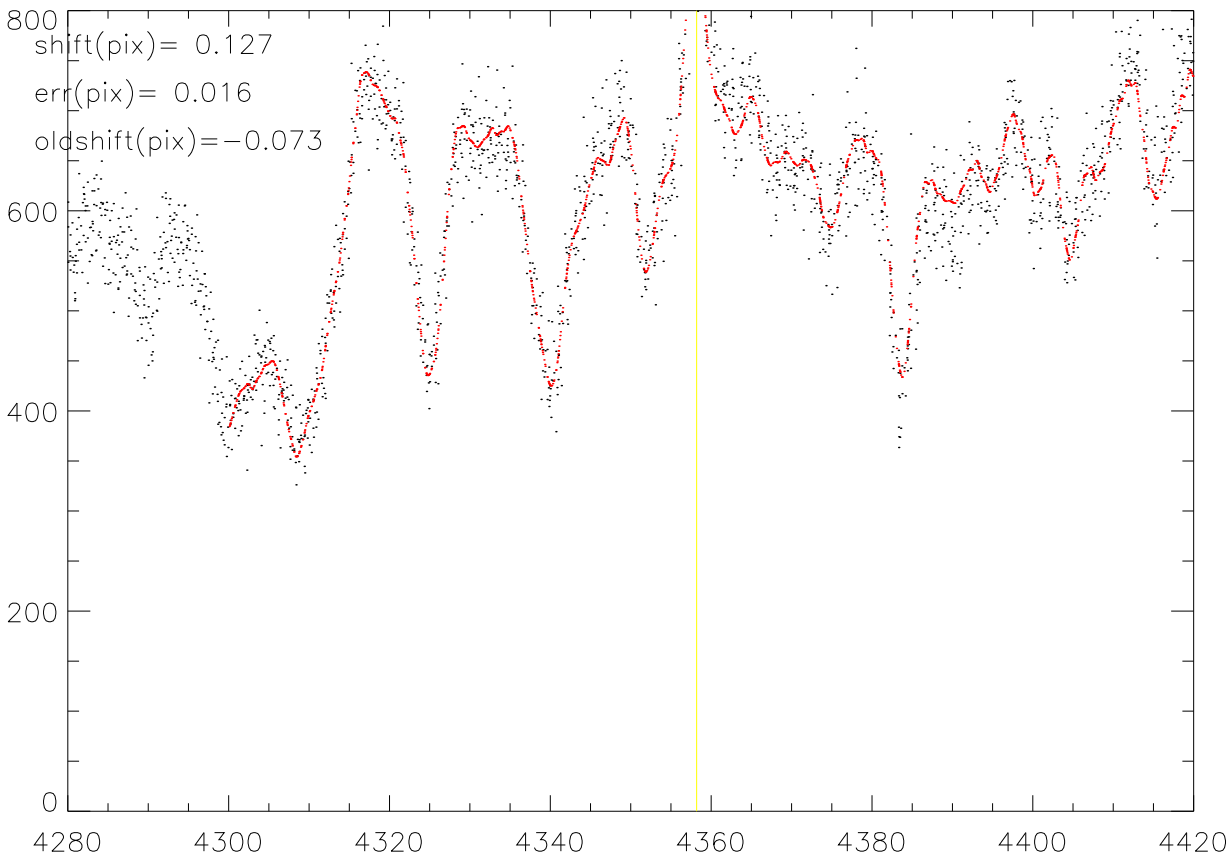

5460.9400
off: 0.36
sig: 0.030

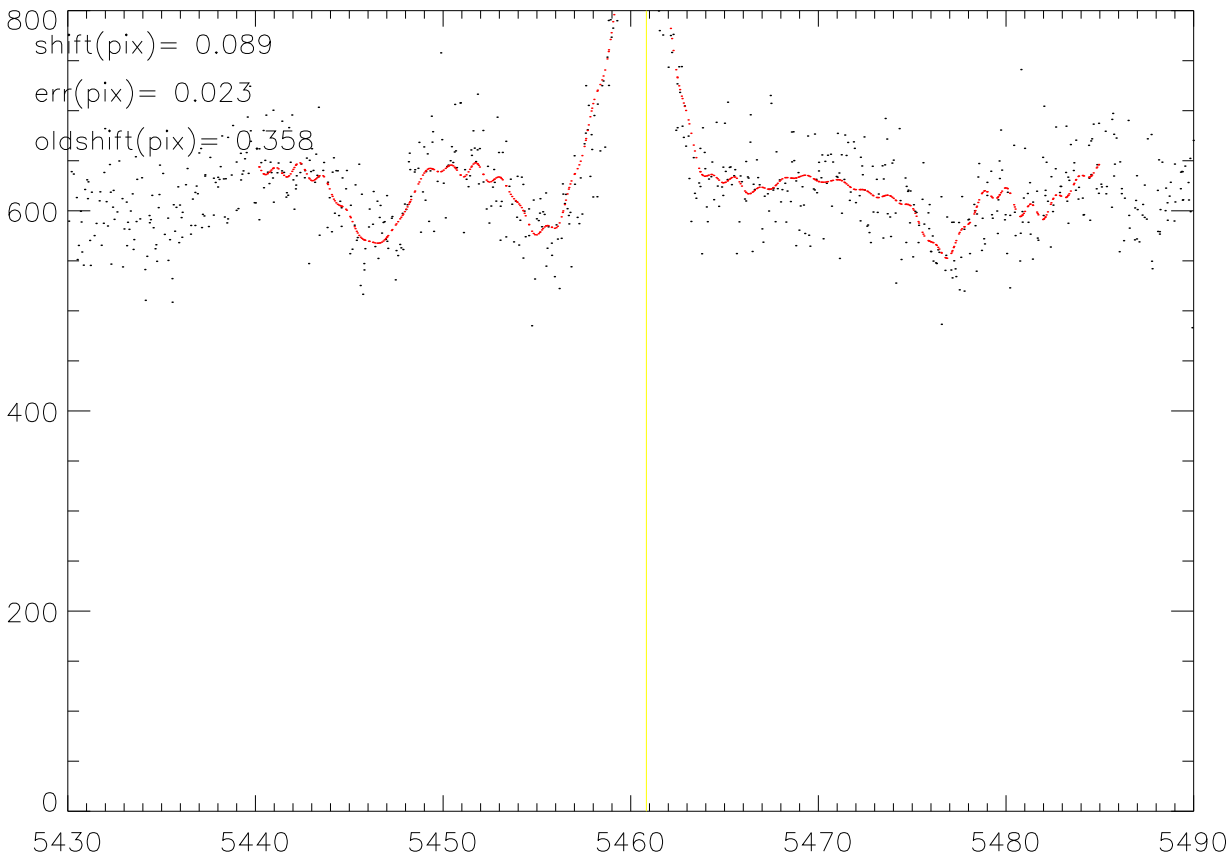

5577.3390
off: 0.17
sig: 0.003

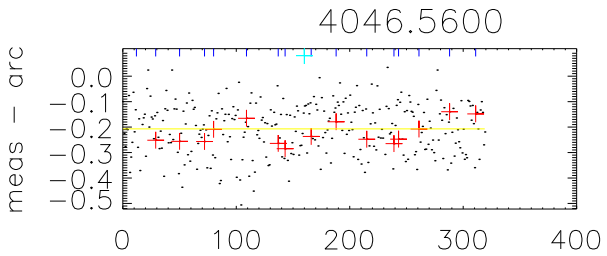

5889.9500
off: 0.25
sig: 0.014

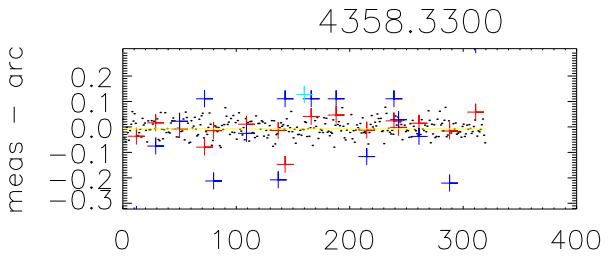

5895.9240
off: 0.24
sig: 0.020

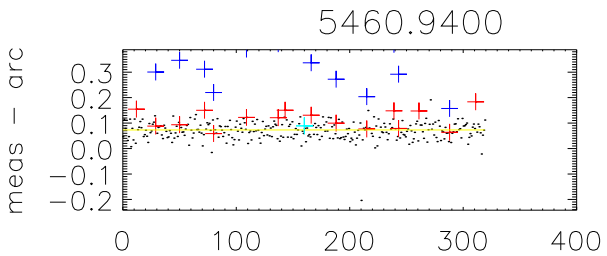

shift(pix)= 0.081
err(pix)= 0.022
oldshift(pix)= 0.000
800
600
400
200
0
4020
4030
4040
4050
4060
4070
4080

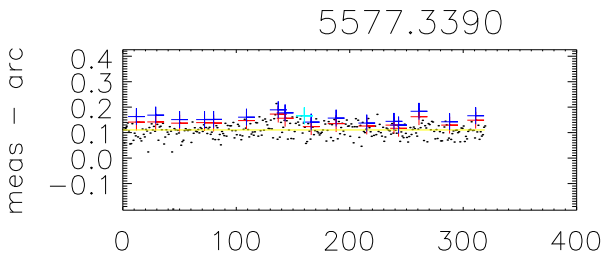

shift(pix)= 0.127
err(pix)= 0.016
oldshift(pix)=−0.073
800
600
400
200
0
4280
4300
4320
4340
4360
4380
4400
4420

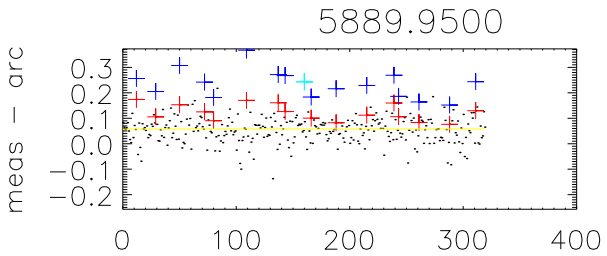

shift(pix)= 0.089
err(pix)= 0.023
oldshift(pix)= 0.358
800
600
400
200
0
5430
5440
5450
5460
5470
5480
5490

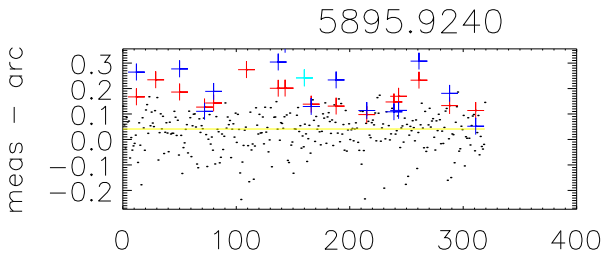

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

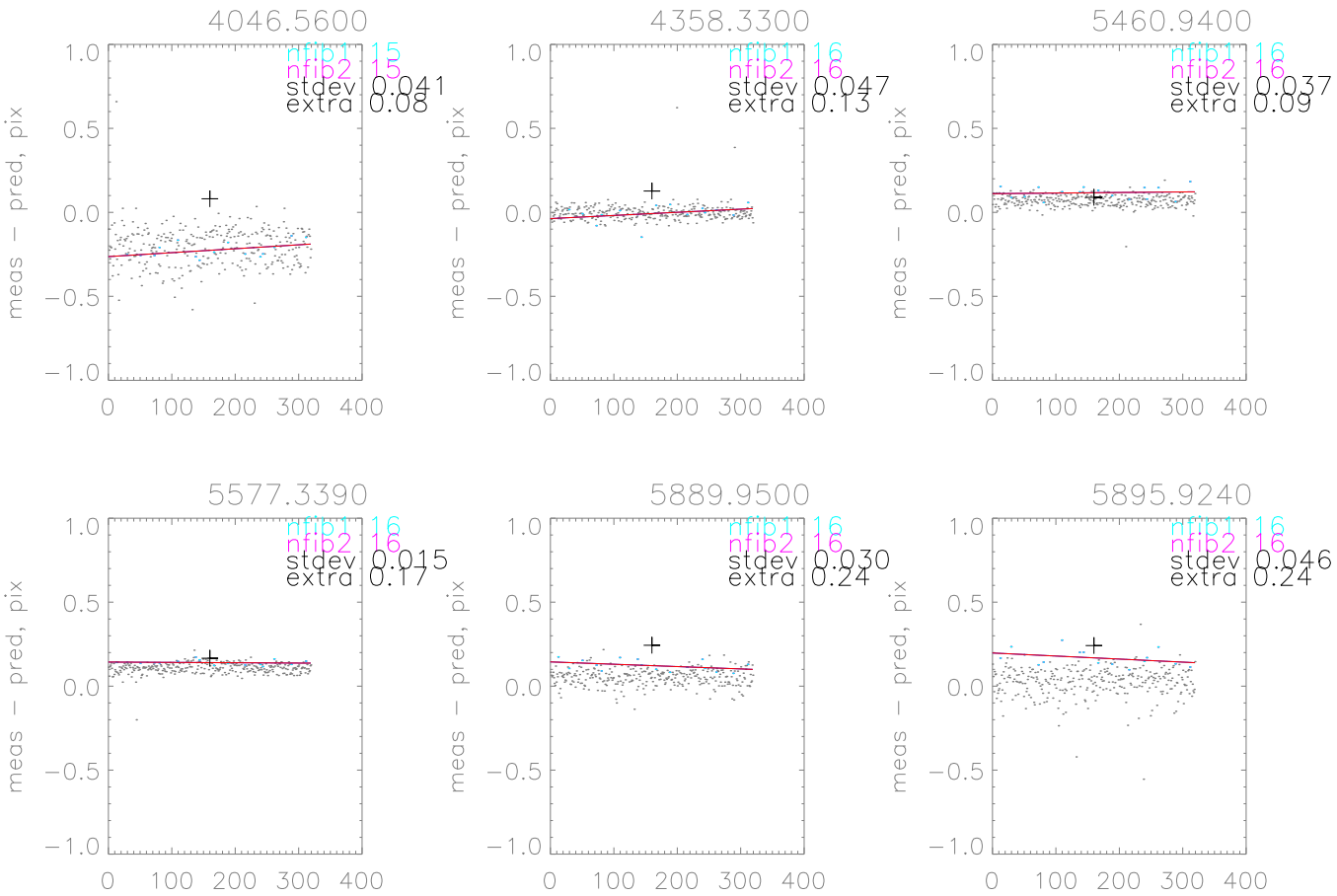

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

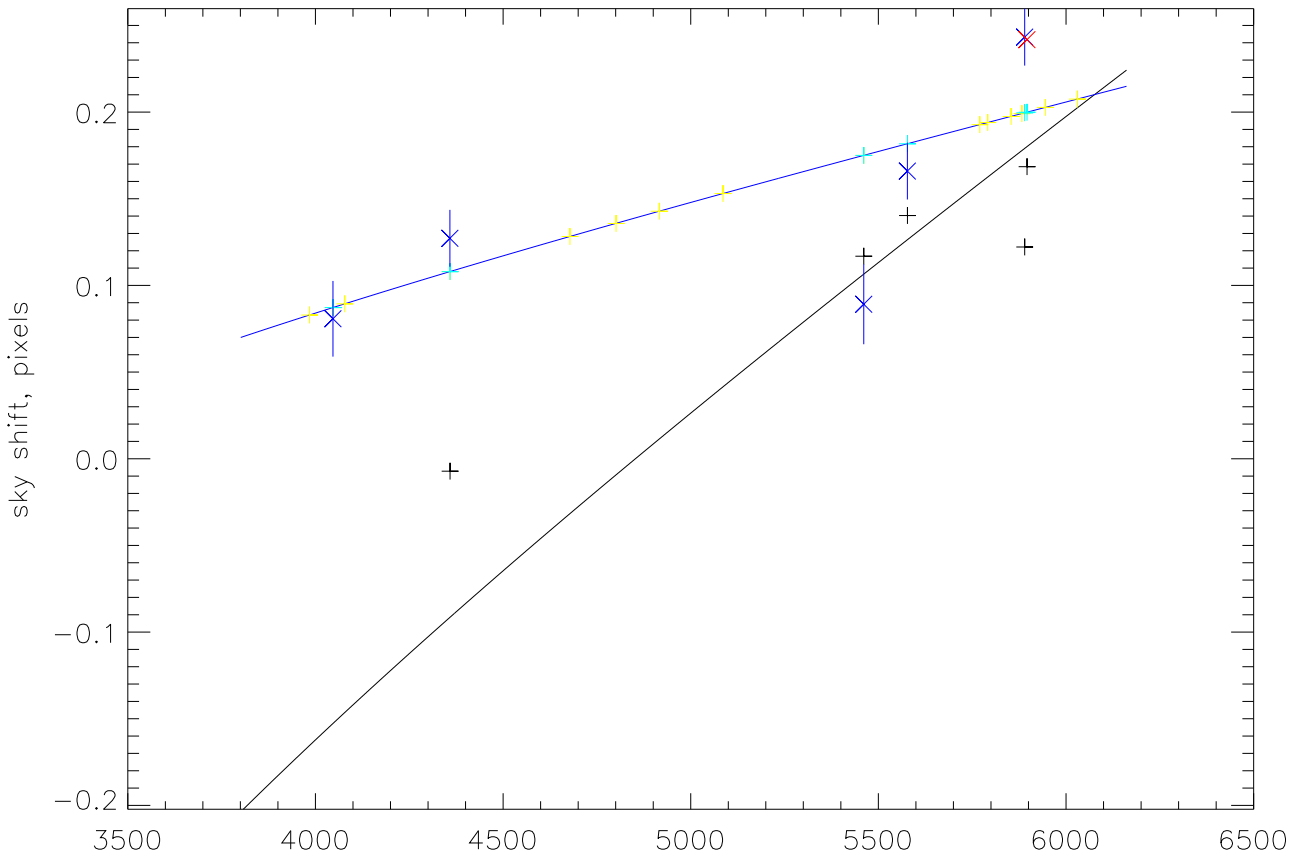

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

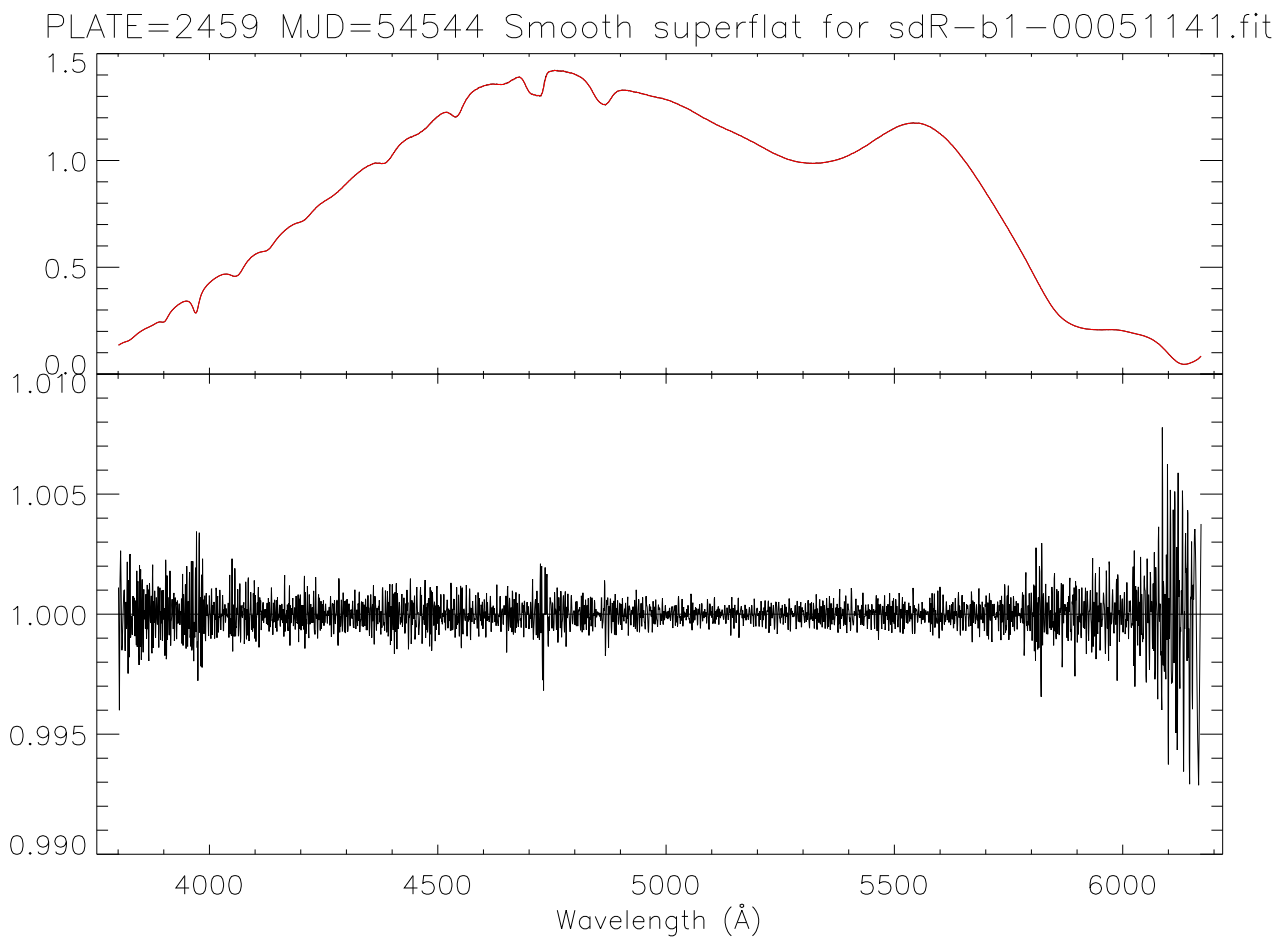

5889.9500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

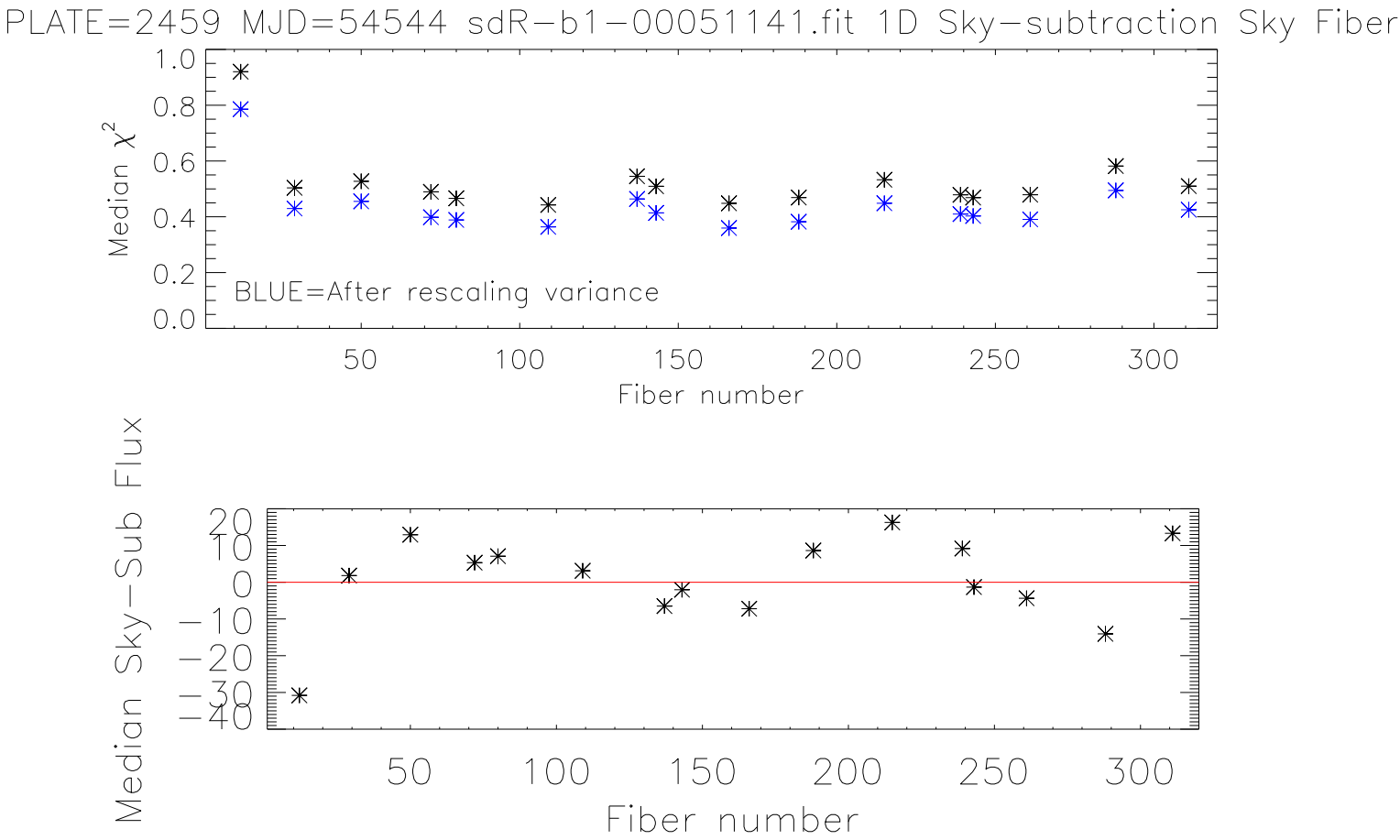

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

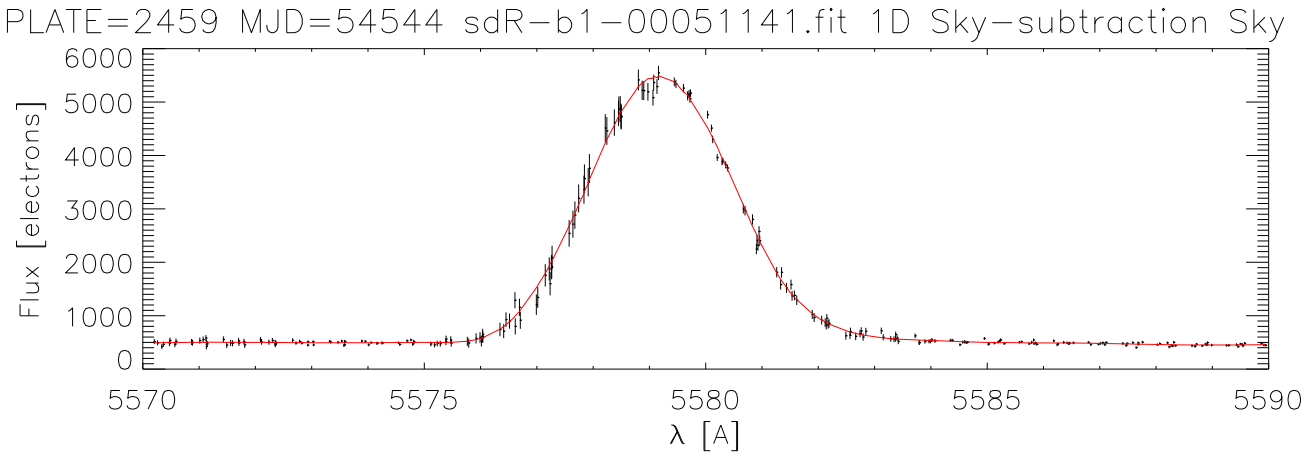

4046.5600
nfib1 15
nfib2 15
stdev 0.041
extra 0.08
4358.3300
nfib1 16
nfib2 16
stdev 0.047
extra 0.13
5460.9400
nfib1 16
nfib2 16
stdev 0.037
extra 0.09
5577.3390
nfib1 16
nfib2 16
stdev 0.015
extra 0.17
5889.9500
nfib1 16
nfib2 16
stdev 0.030
extra 0.24
5895.9240
nfib1 16
nfib2 16
stdev 0.046
extra 0.24
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

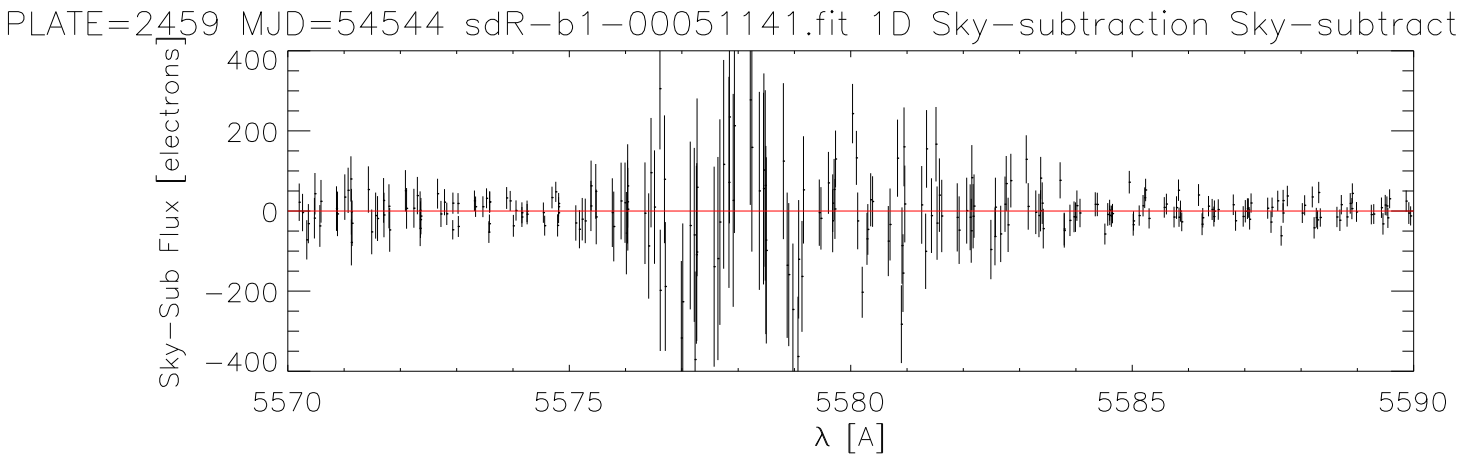

sky shift, pixels
0.2
0.1
0.0
−0.1
−0.2
3500
4000
4500
5000
5500
6000
6500

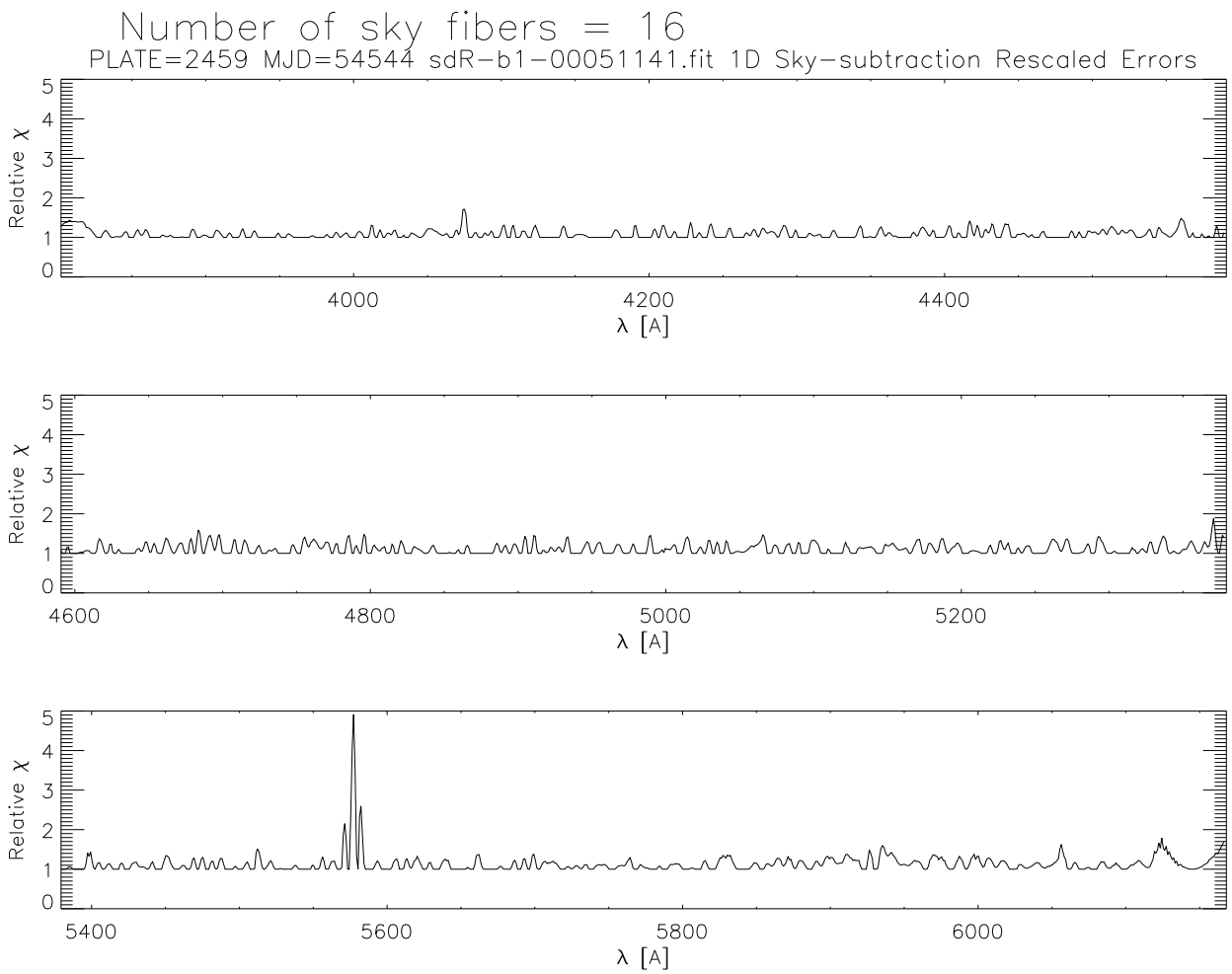
es= 0.0000

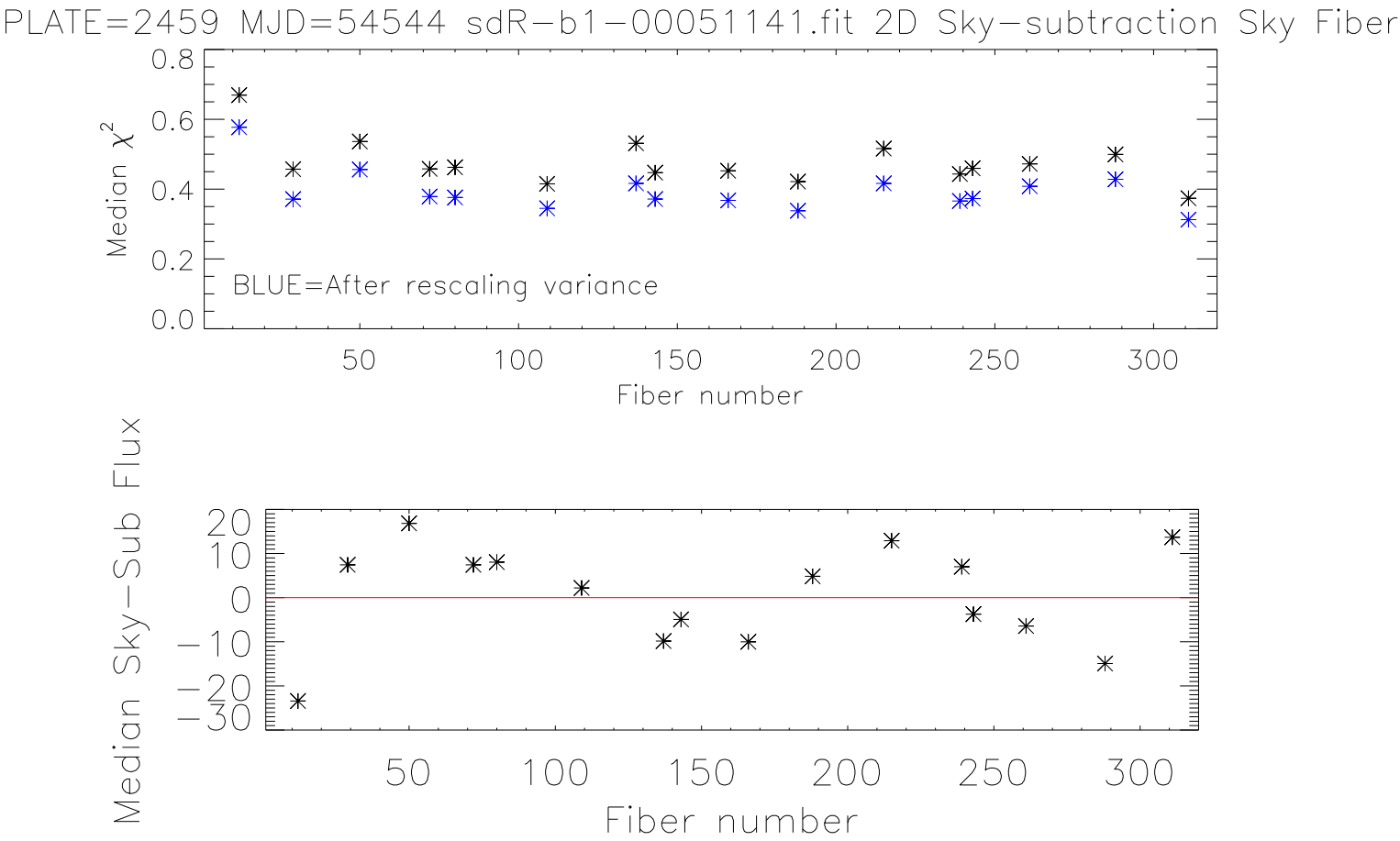

PLATE=2459 MJD=54544 Smooth superflat for sdR-b1-00051141.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

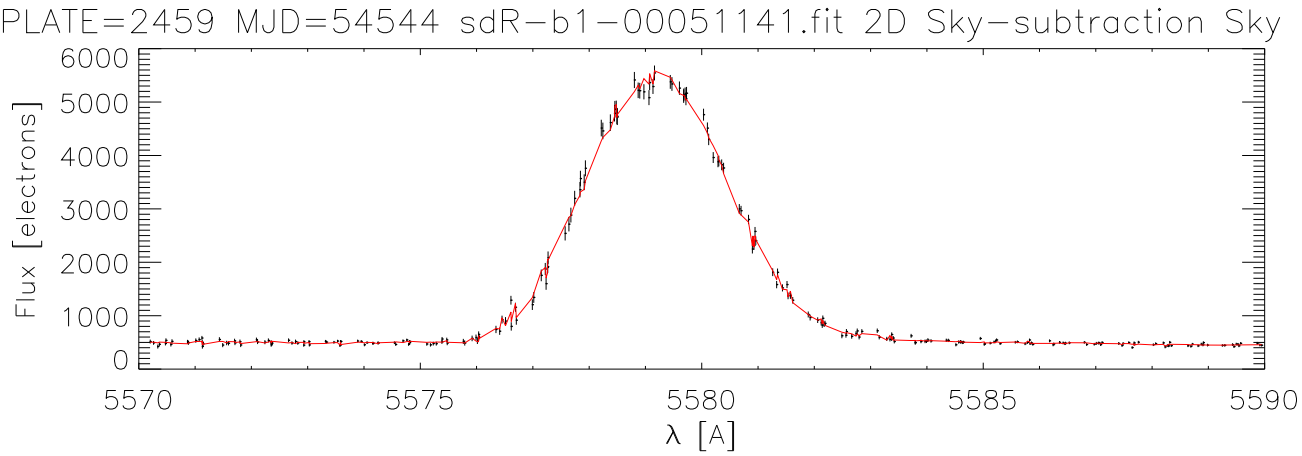

PLATE=2459 MJD=54544 sdR-b1-00051141.fit 1D Sky-subtraction Sky Fiber
Median χ^2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
10
0
-10
-20
-30
-40
50
100
150
200
250
300
Fiber number

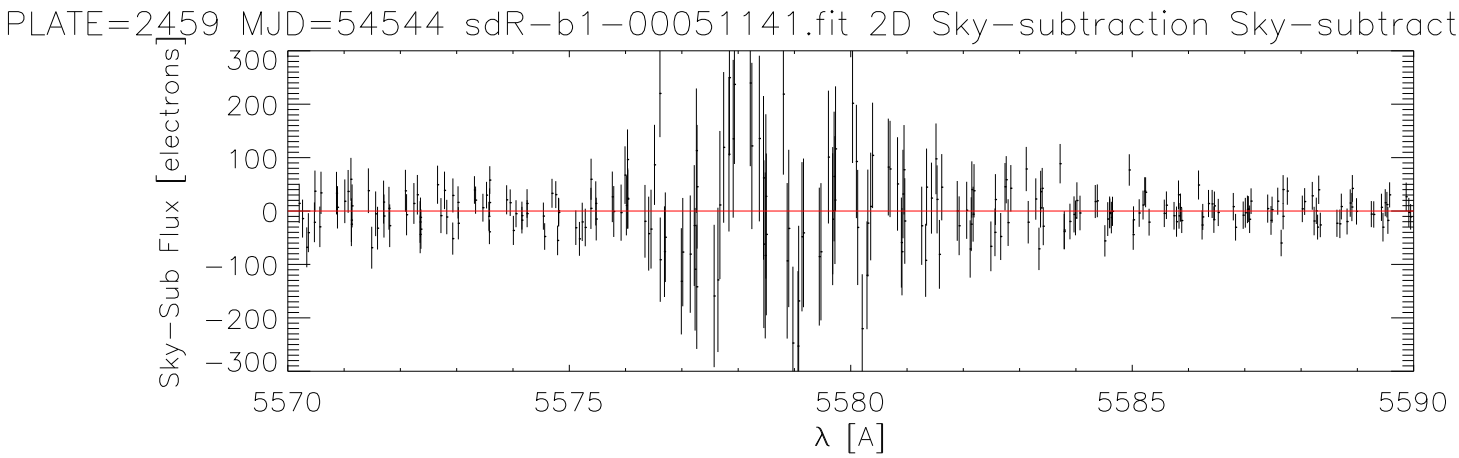

PLATE=2459 MJD=54544 sdR-b1-00051141.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

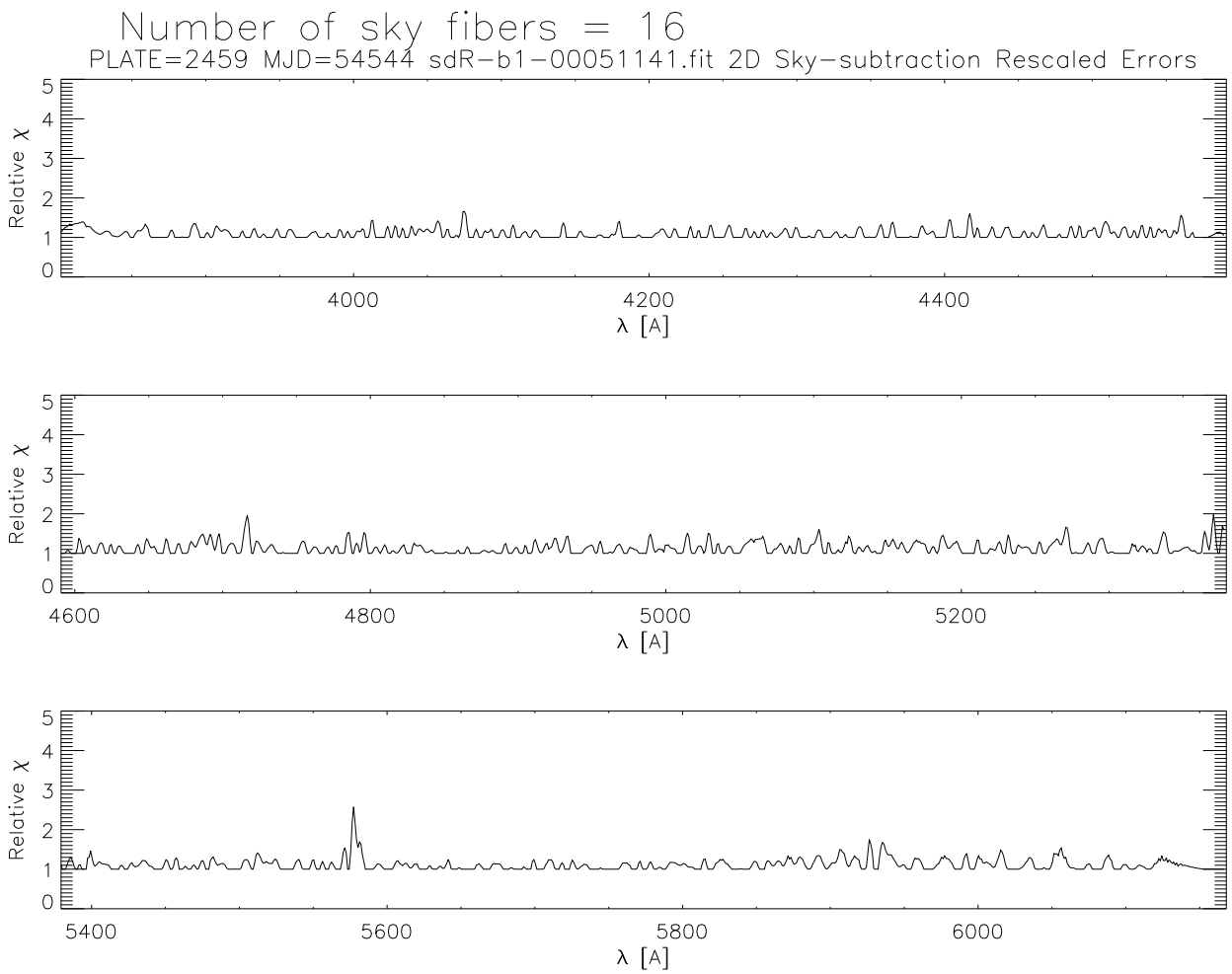

PLATE=2459 MJD=54544 sdR-b1-00051141.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

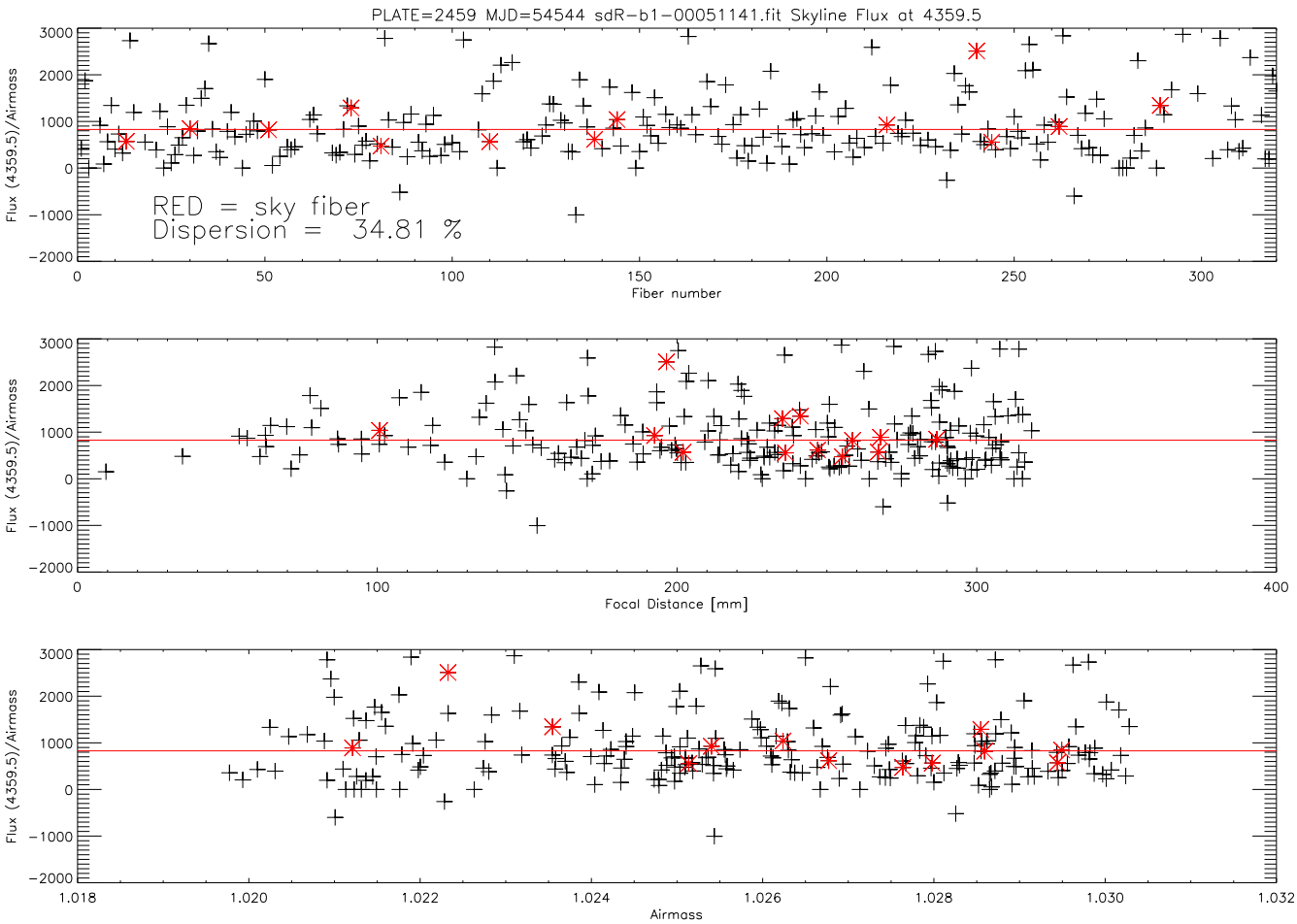

Number of sky fibers = 16
PLATE=2459 MJD=54544 sdR-b1-00051141.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

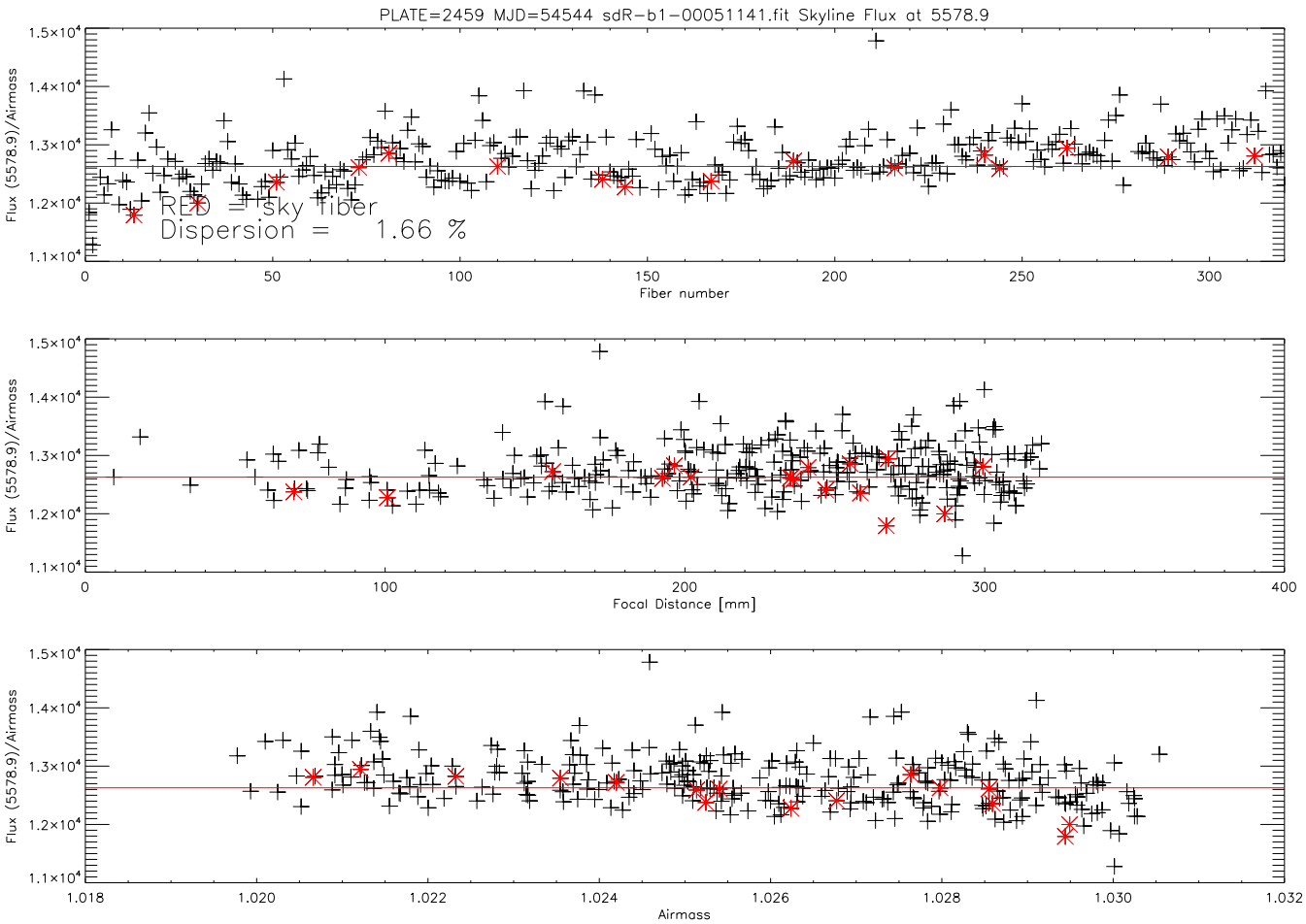

PLATE=2459 MJD=54544 sdR-b1-00051141.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
10
0
-10
-20
-30
50
100
150
200
250
300
Fiber number

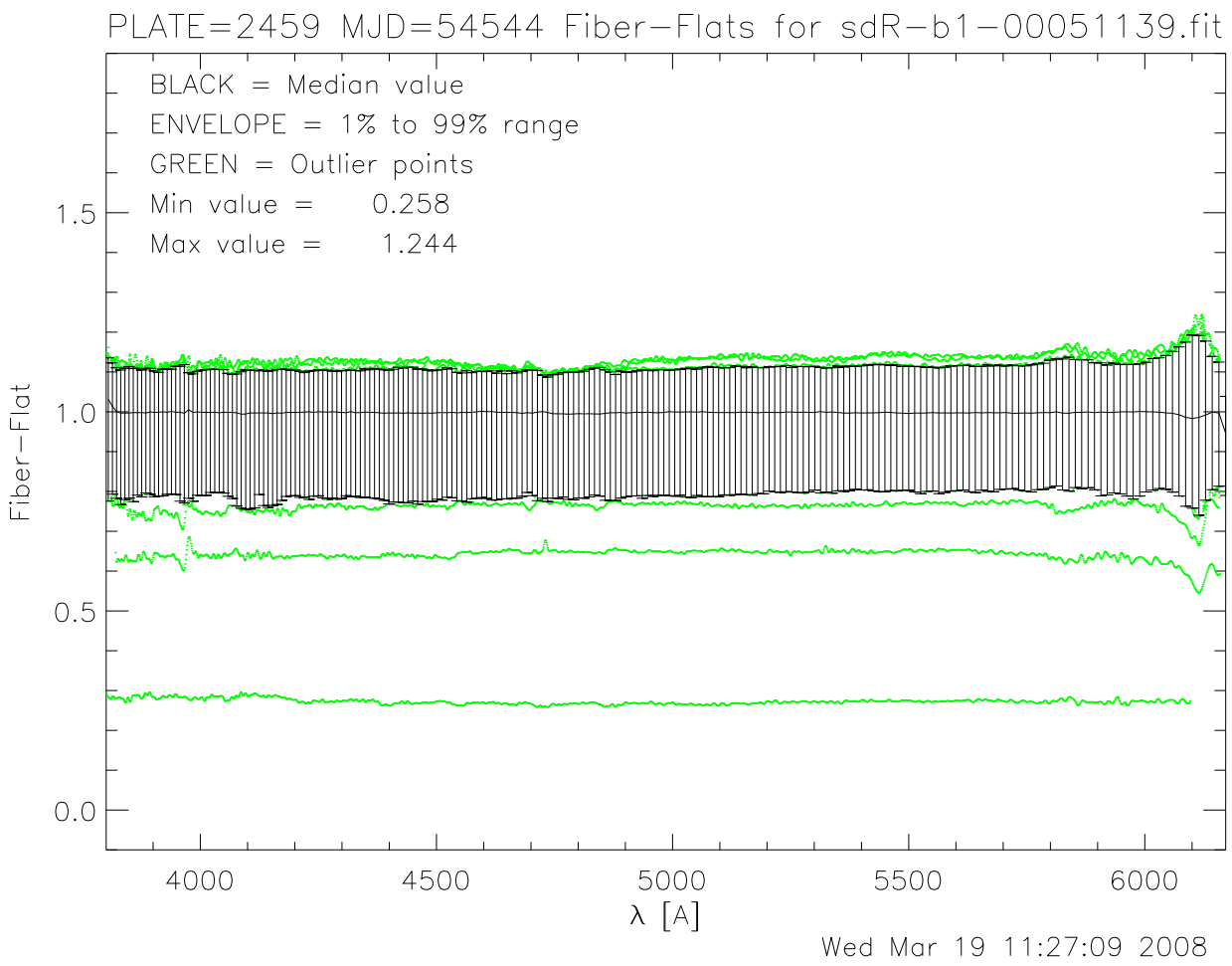

PLATE=2459 MJD=54544 sdR-b1-00051141.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

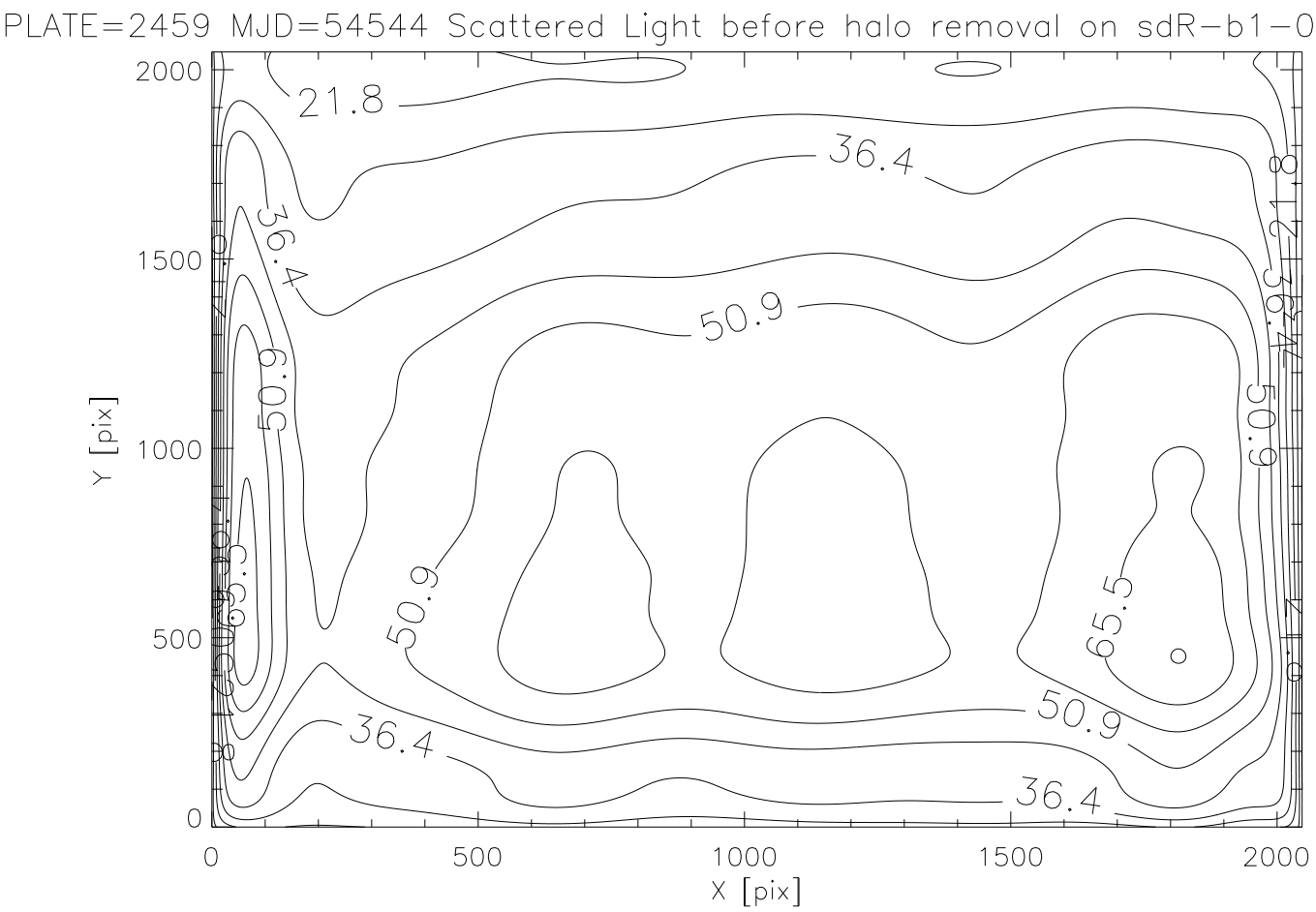

PLATE=2459 MJD=54544 sdR-b1-00051141.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

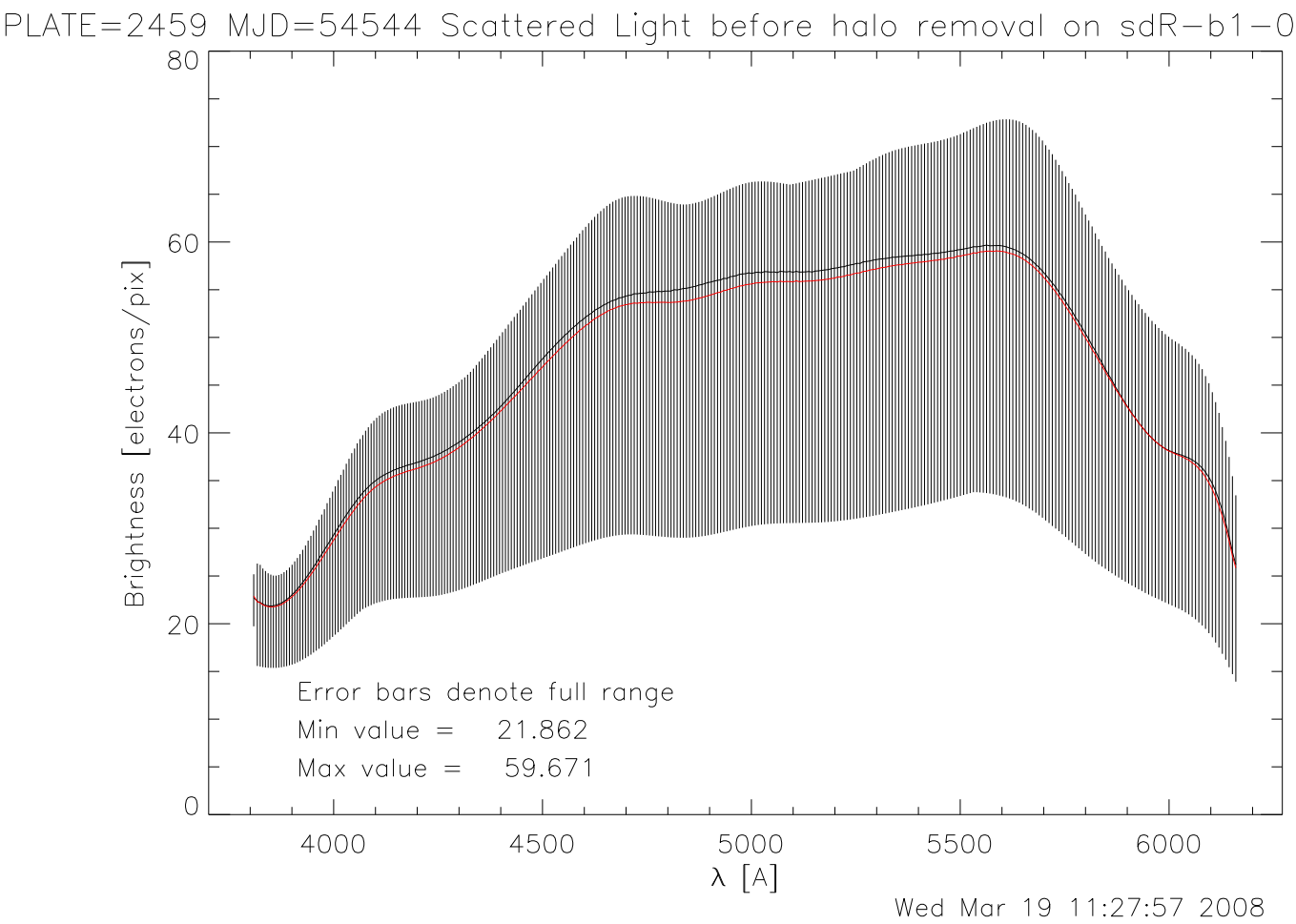

Number of sky fibers = 16
PLATE=2459 MJD=54544 sdR-b1-00051141.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

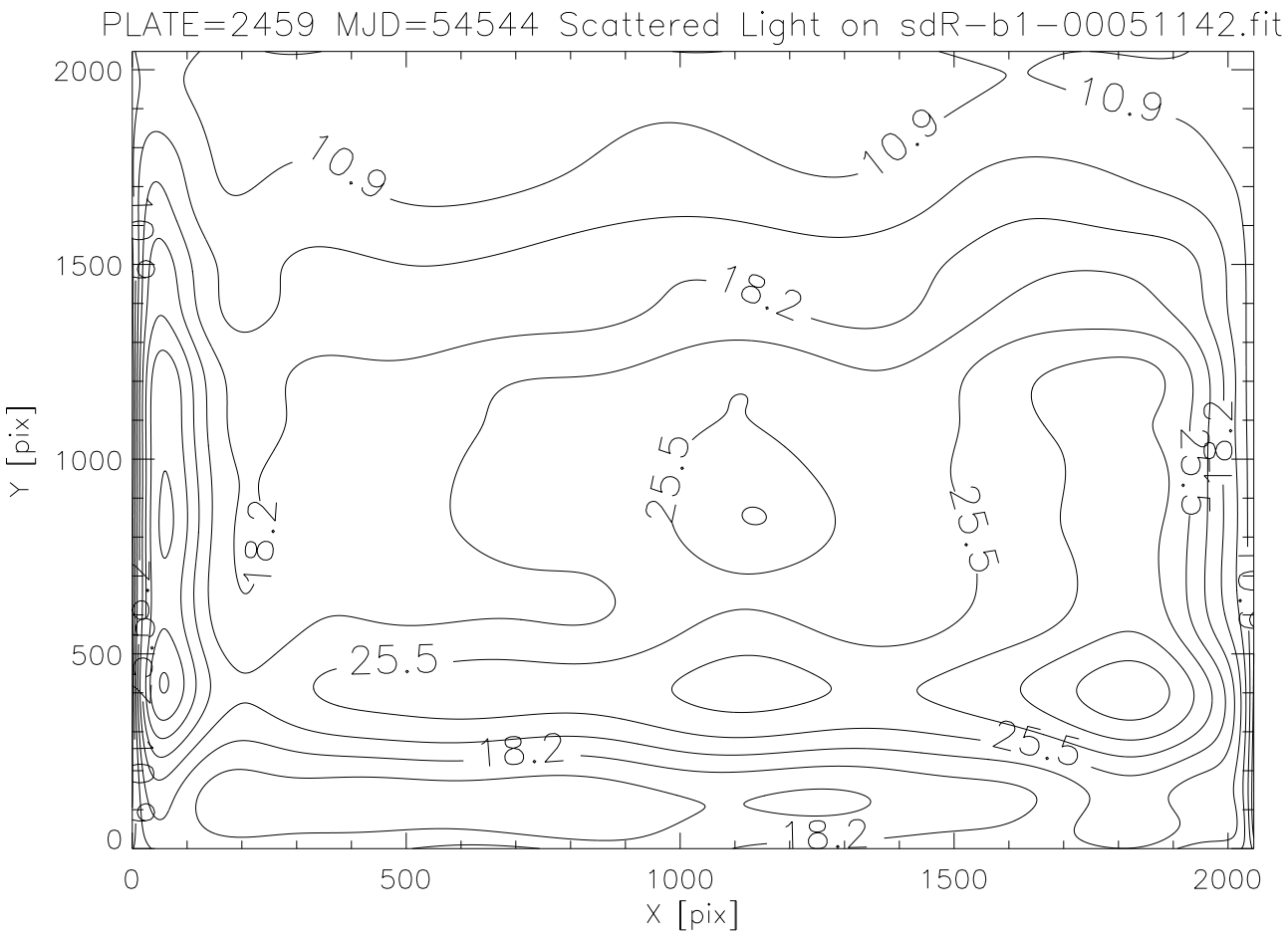

PLATE=2459 MJD=54544 sdR-b1-00051141.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 34.81 %
Fiber number
Focal Distance [mm]
Airmass

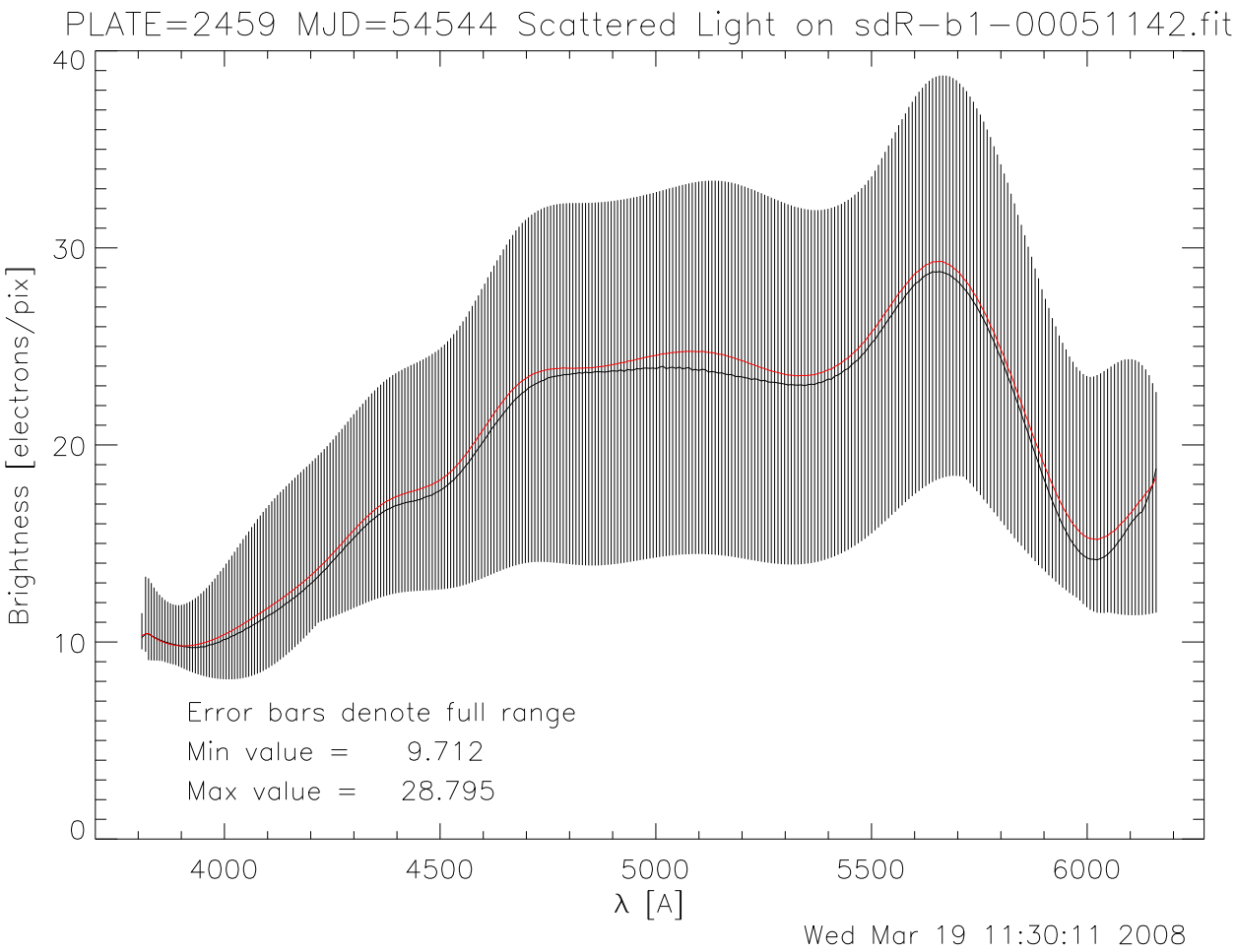

PLATE=2459 MJD=54544 sdR-b1-00051141.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.66 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

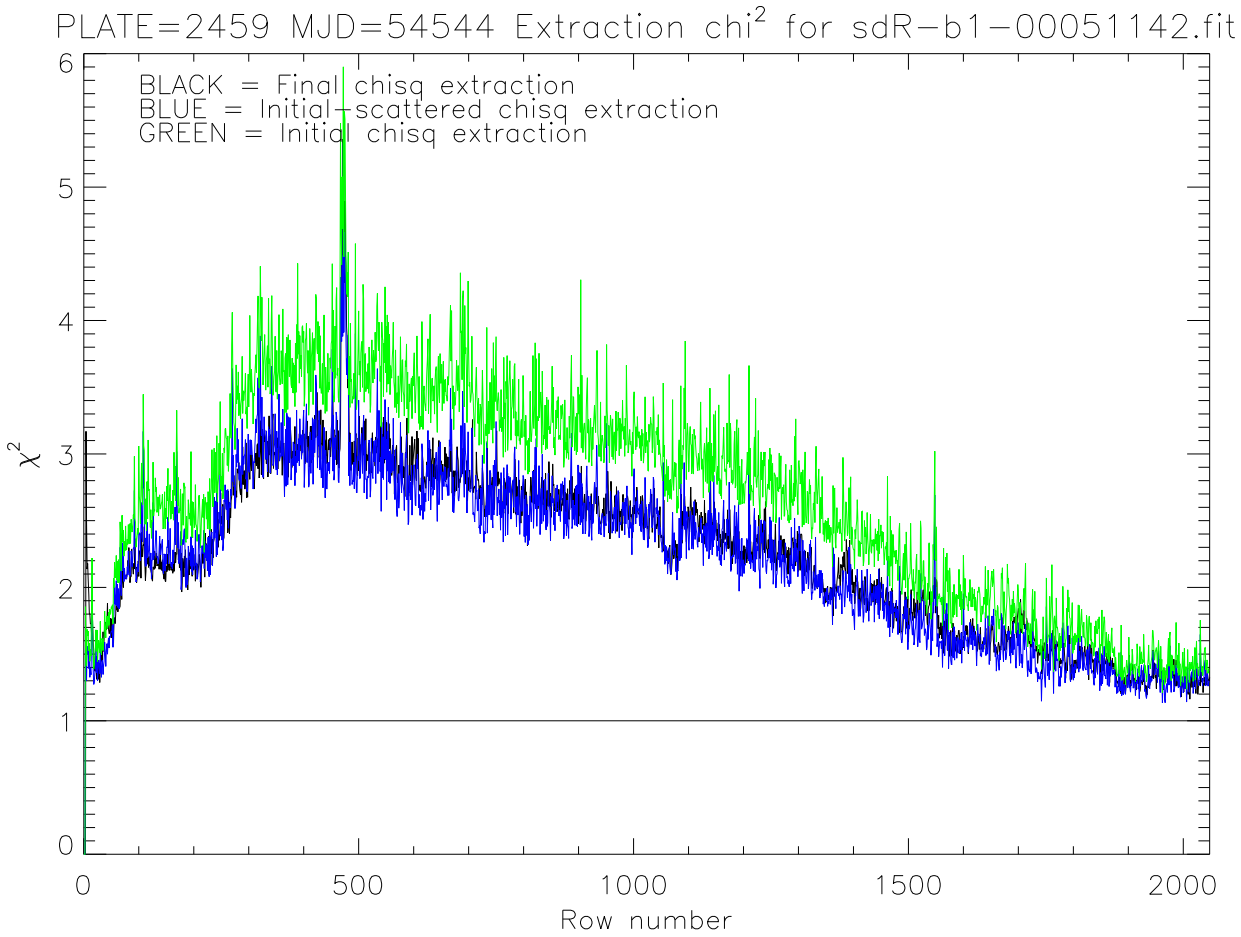

PLATE=2459 MJD=54544 Fiber−Flats for sdR−b1−00051139.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.258
Max value = 1.244
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 19 11:27:09 2008

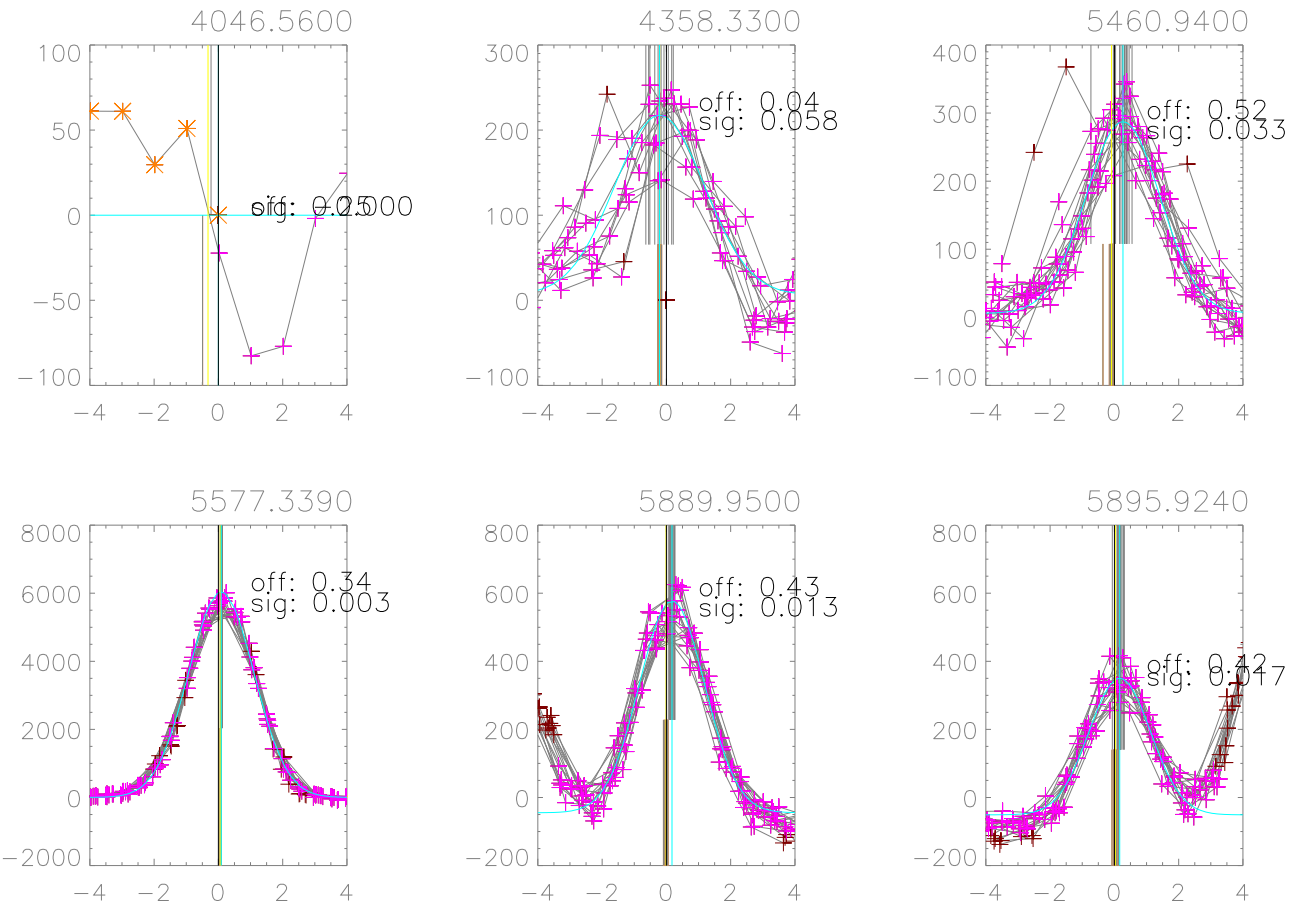

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR−b1−00051142.f
21.8
36.4
50.9
65.5
Y [pix]
X [pix]
0
500
1000
1500
2000

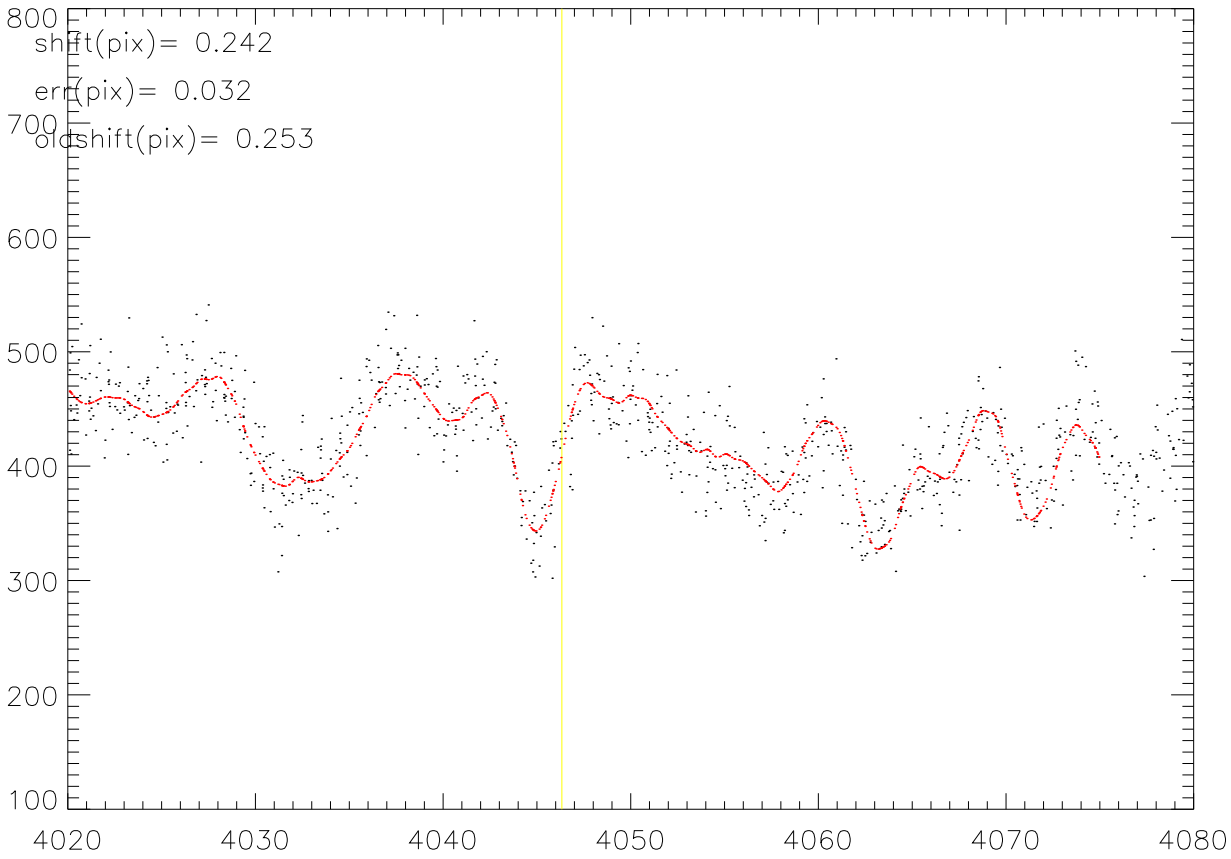

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR−b1−00051142.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 21.862
Max value = 59.671
Wed Mar 19 11:27:57 2008

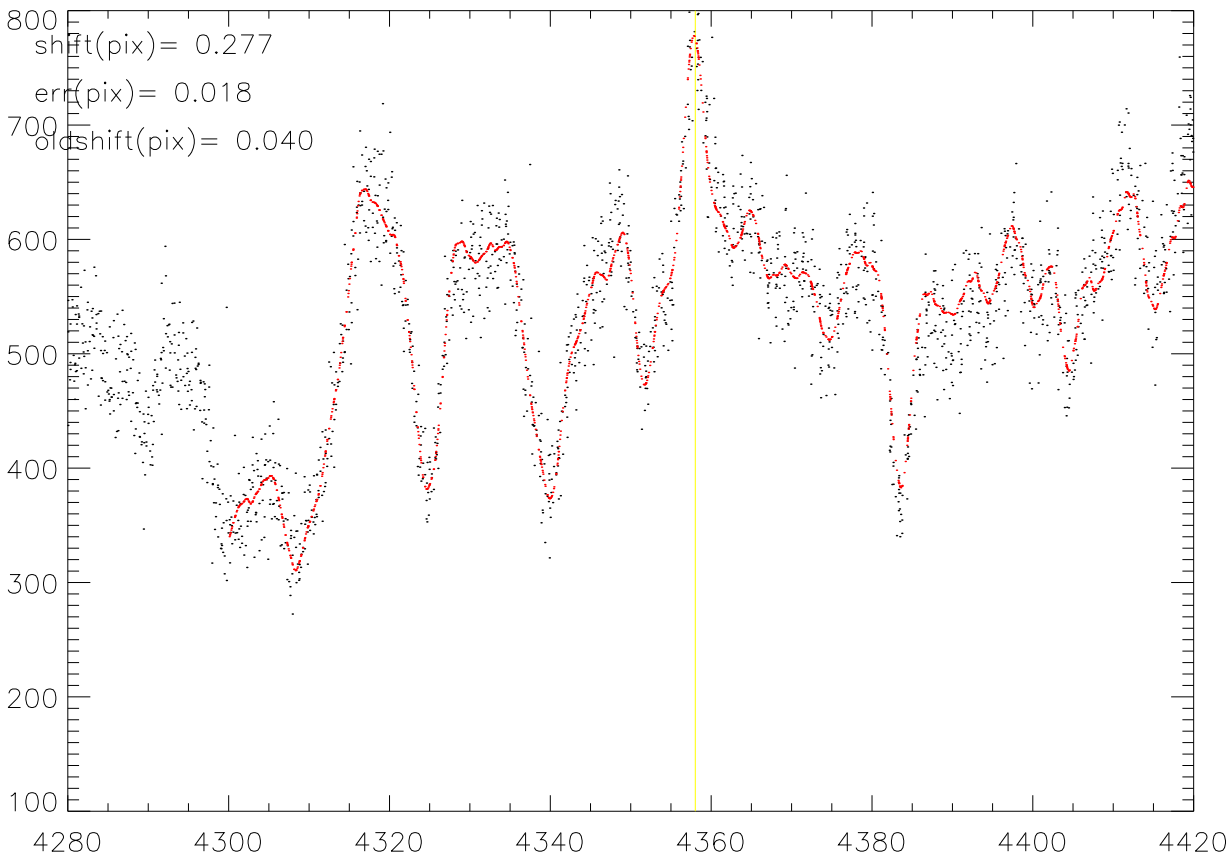

PLATE=2459 MJD=54544 Scattered Light on sdR-b1-00051142.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
10.9
18.2
25.5
0

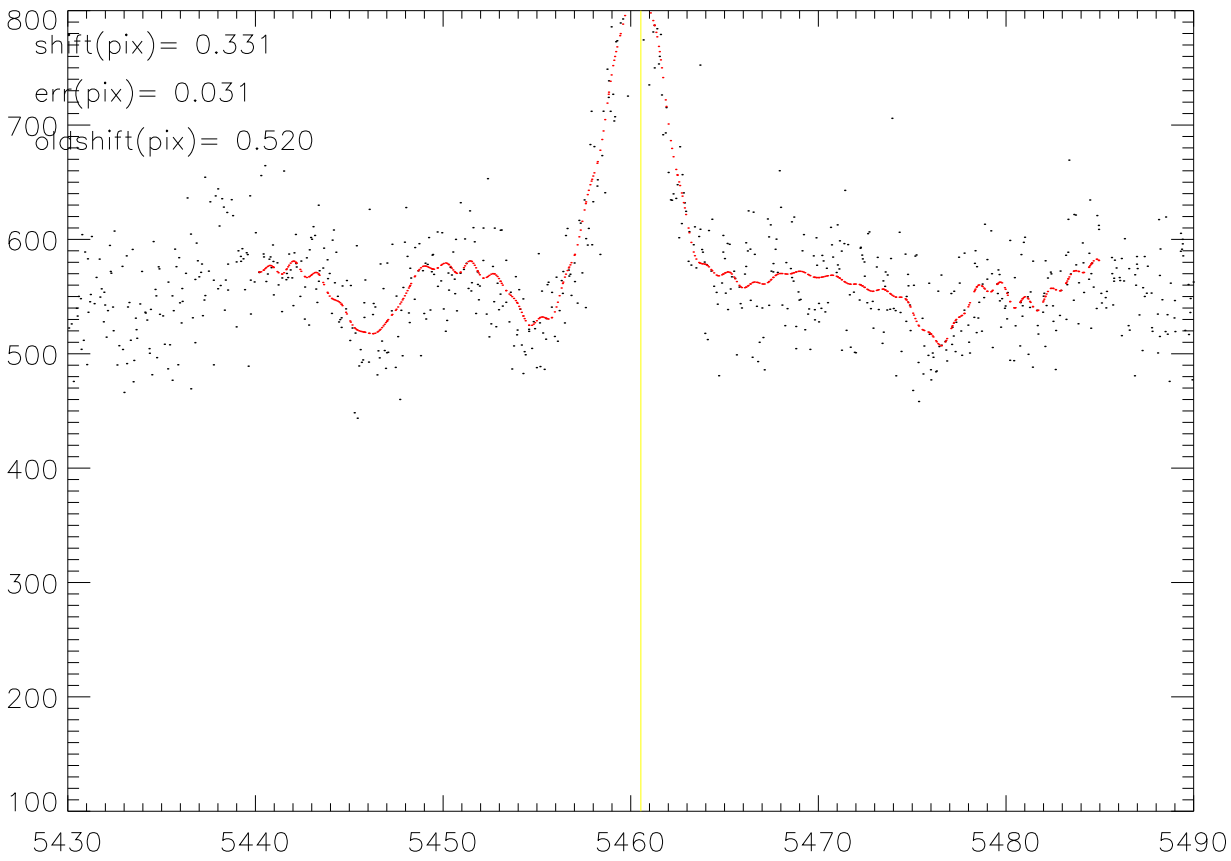

PLATE=2459 MJD=54544 Scattered Light on sdR-b1-00051142.fit
Brightness [electrons/pix]
40
30
20
10
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 9.712
Max value = 28.795
Wed Mar 19 11:30:11 2008

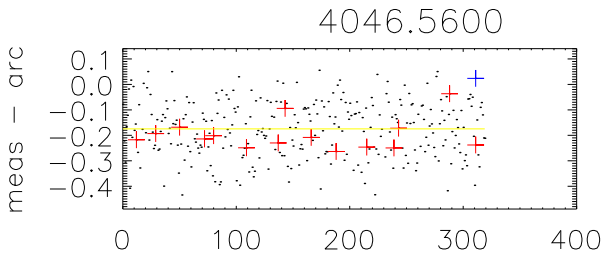

PLATE=2459 MJD=54544 Extraction chi^2 for sdR-b1-00051142.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
6
0
500
1000
1500
2000

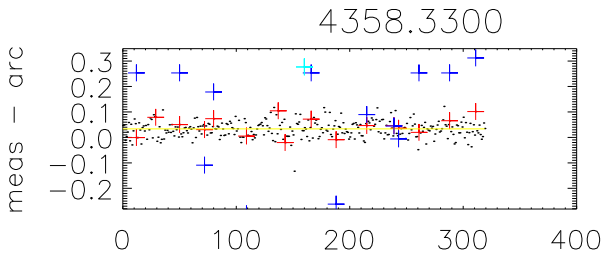

4046.5600
off: 0.25
sig: 0.000
4358.3300
off: 0.04
sig: 0.058
5460.9400
off: 0.52
sig: 0.033
5577.3390
off: 0.34
sig: 0.003
5889.9500
off: 0.43
sig: 0.013
5895.9240
off: 0.42
sig: 0.017

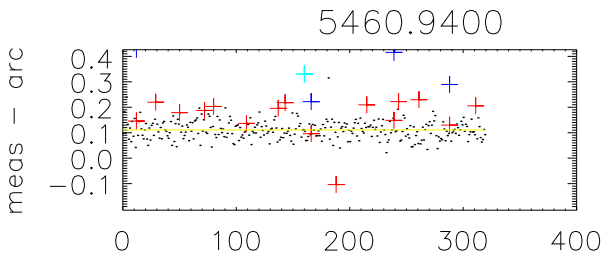

shift(pix)= 0.242
err(pix)= 0.032
oldshift(pix)= 0.253
800
700
600
500
400
300
200
100
4020
4030
4040
4050
4060
4070
4080

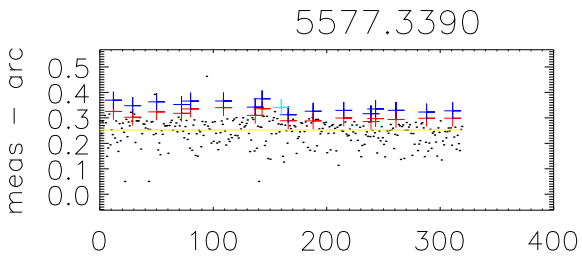

shift(pix)= 0.277
err(pix)= 0.018
oldshift(pix)= 0.040
800
700
600
500
400
300
200
100
4280
4300
4320
4340
4360
4380
4400
4420

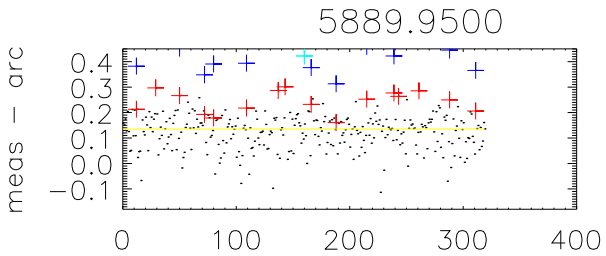

shift(pix)= 0.331
err(pix)= 0.031
oldshift(pix)= 0.520
800
700
600
500
400
300
200
100
5430
5440
5450
5460
5470
5480
5490

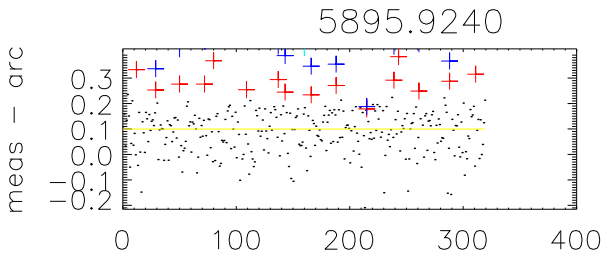

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

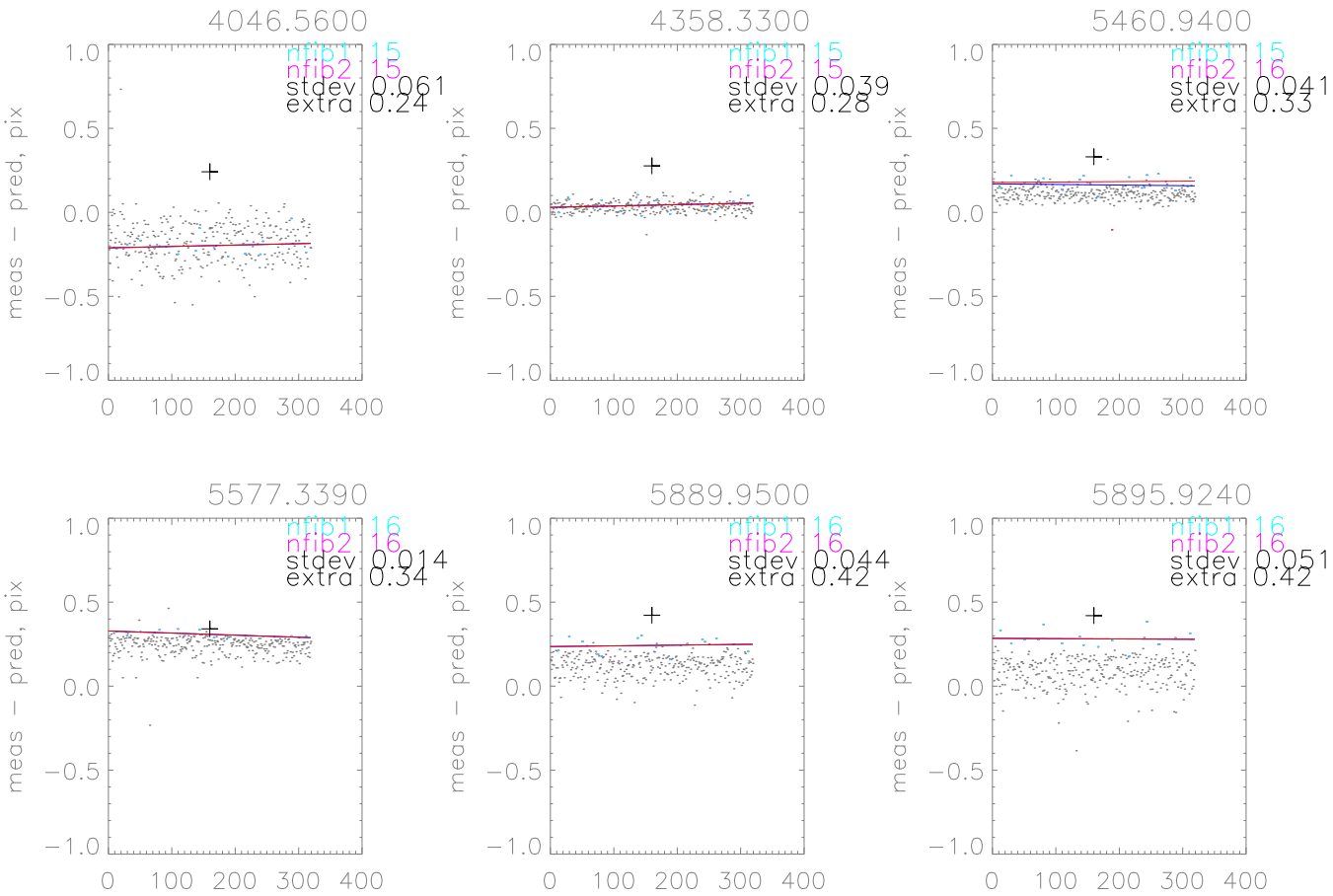

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

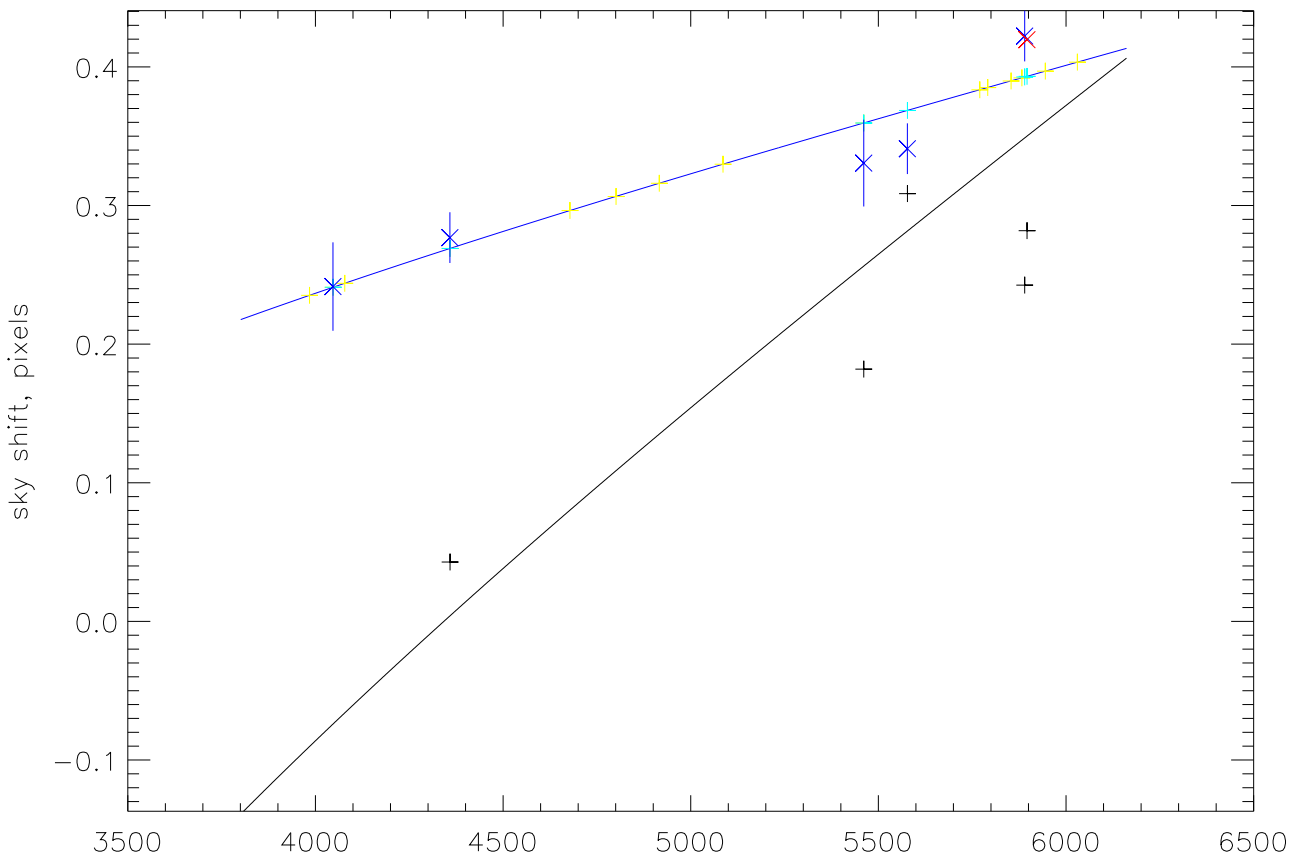

5460.9400
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

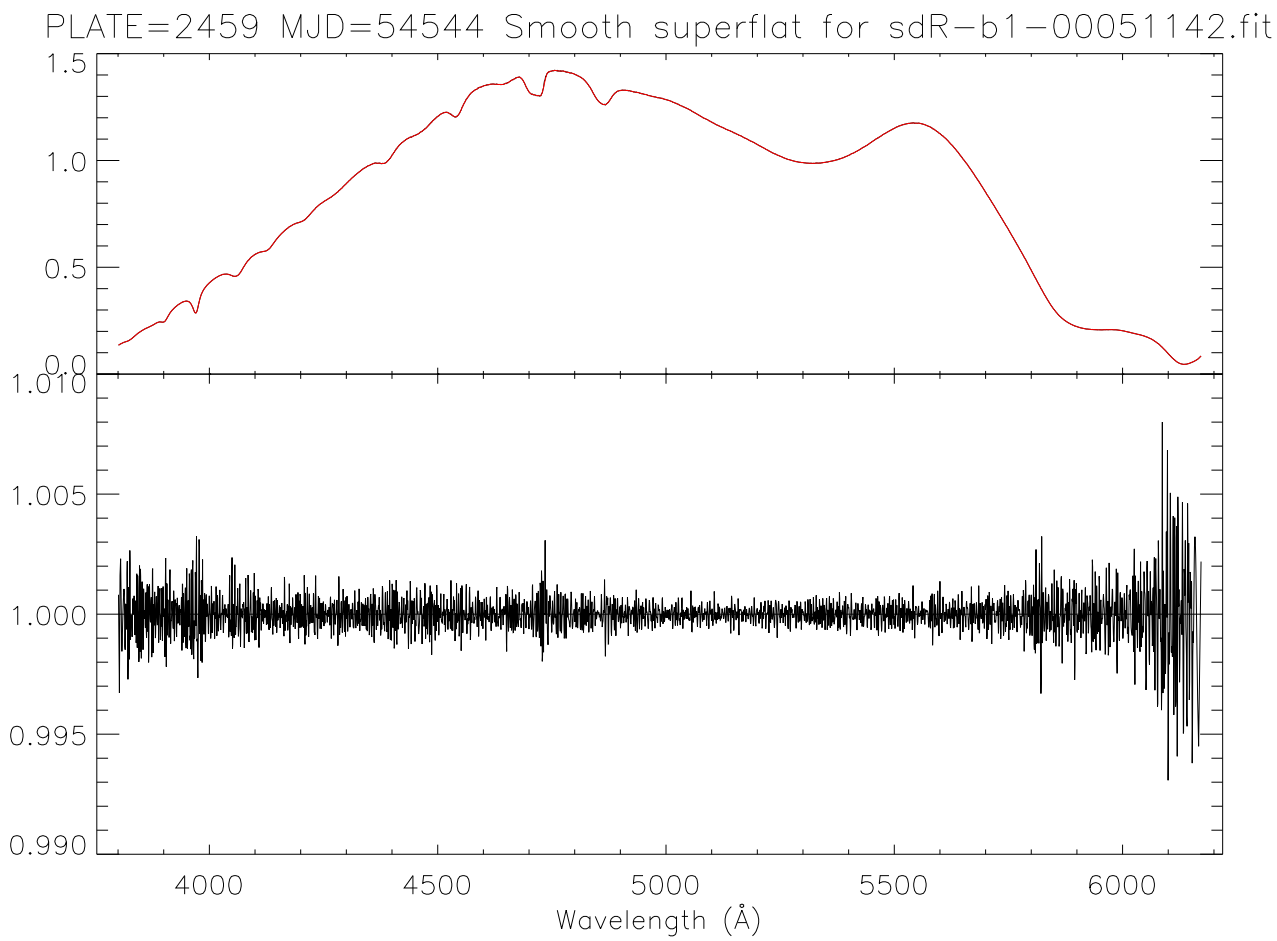

5889.9500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

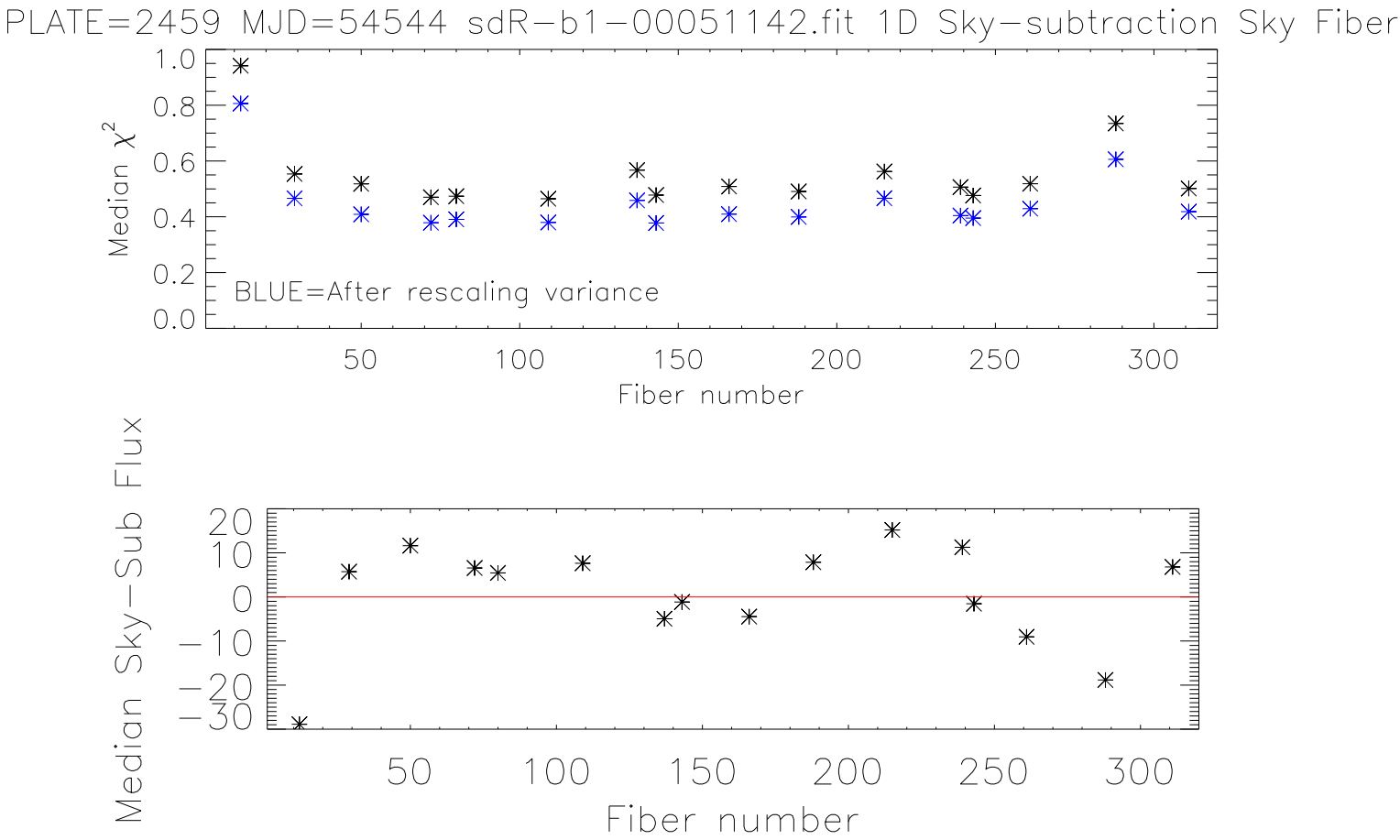

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

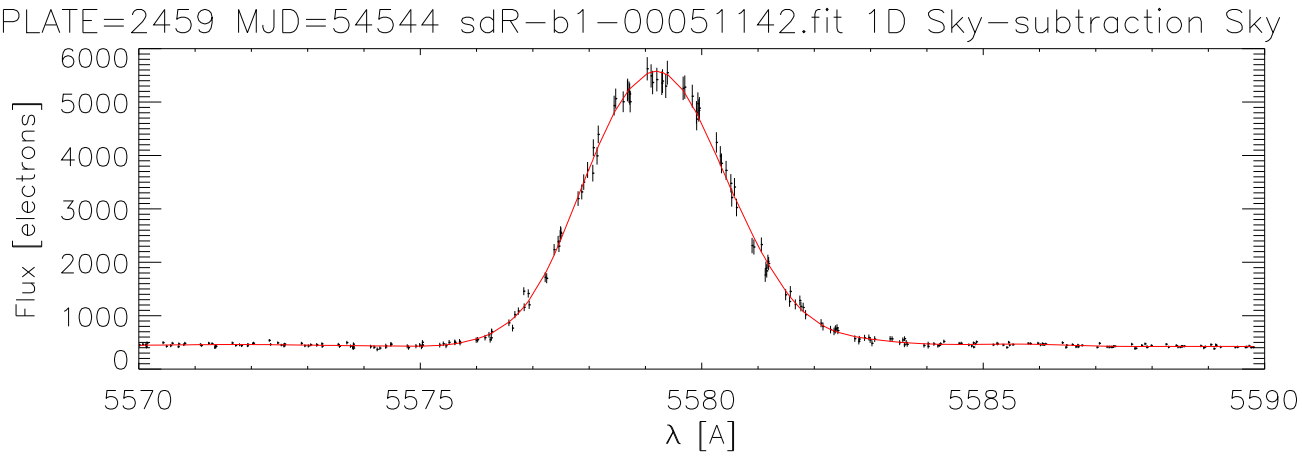

4046.5600
nfib1 15
nfib2 15
stdev 0.061
extra 0.24
4358.3300
nfib1 15
nfib2 15
stdev 0.039
extra 0.28
5460.9400
nfib1 15
nfib2 16
stdev 0.041
extra 0.33
5577.3390
nfib1 16
nfib2 16
stdev 0.014
extra 0.34
5889.9500
nfib1 16
nfib2 16
stdev 0.044
extra 0.42
5895.9240
nfib1 16
nfib2 16
stdev 0.051
extra 0.42
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

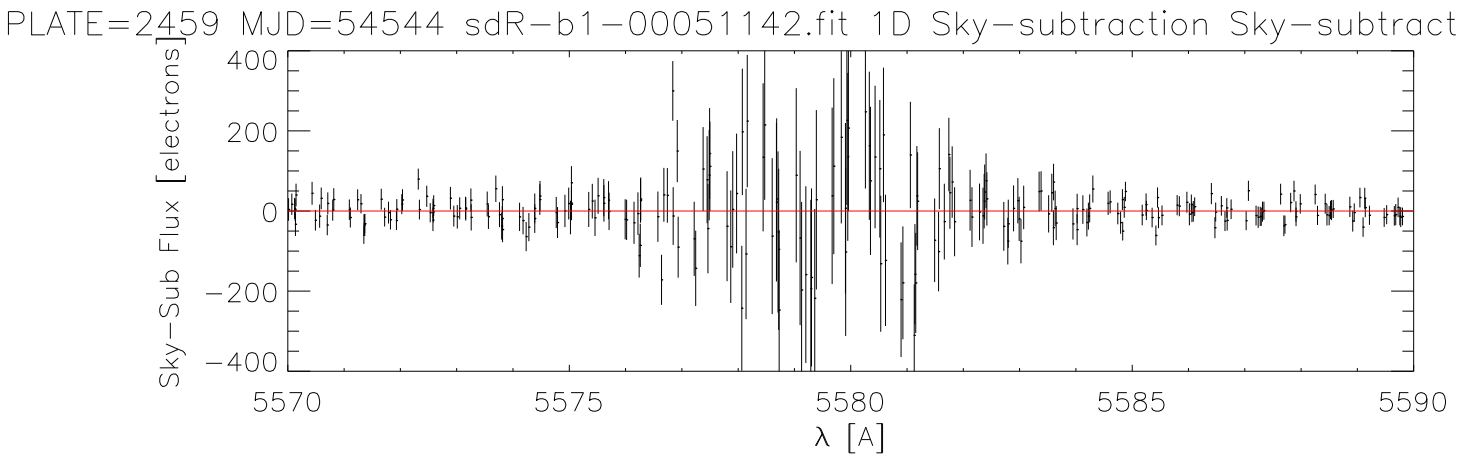

sky shift, pixels
0.4
0.3
0.2
0.1
0.0
−0.1
3500
4000
4500
5000
5500
6000
6500

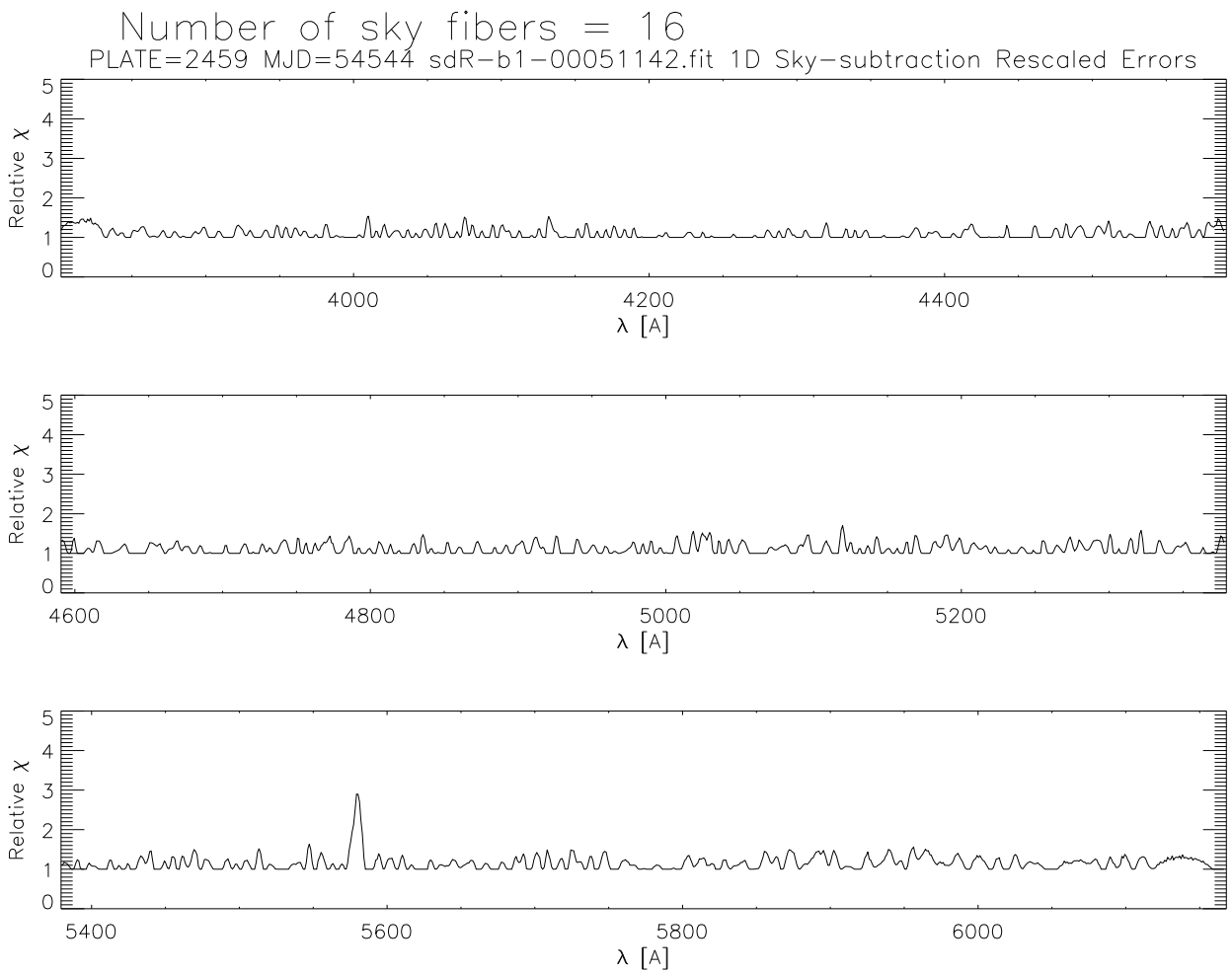
es= 0.0000

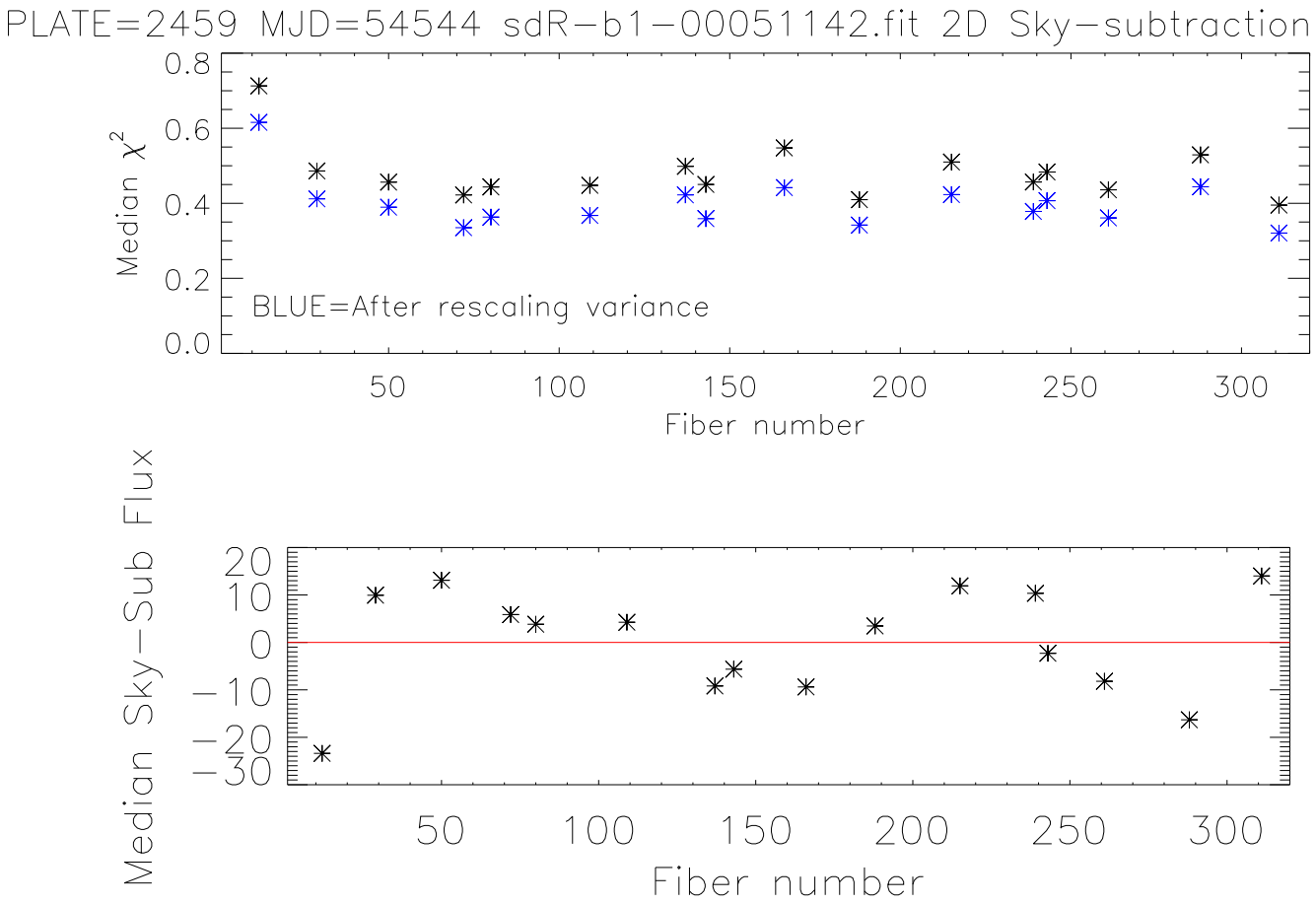

PLATE=2459 MJD=54544 Smooth superflat for sdR-b1-00051142.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

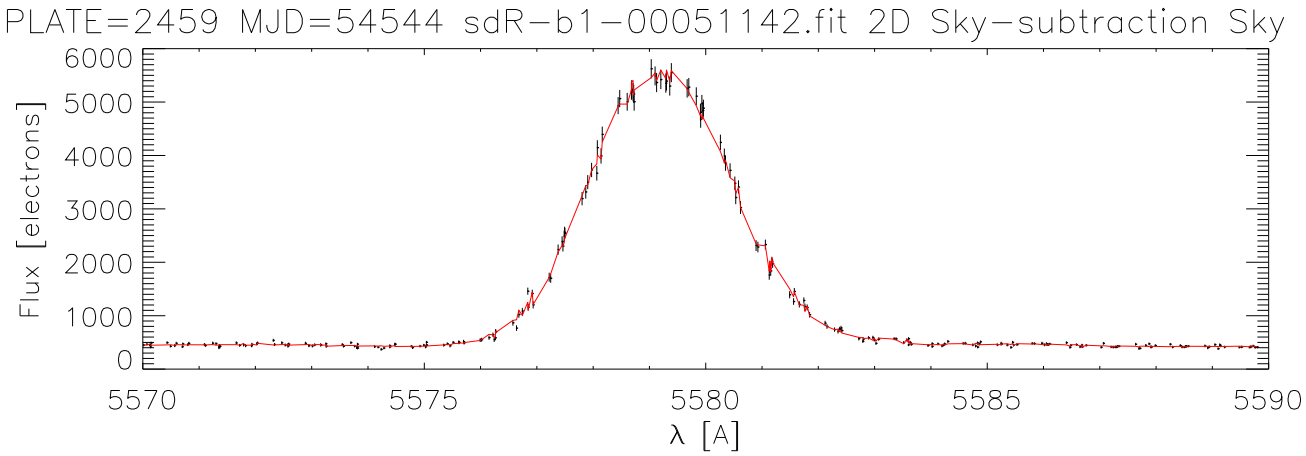

PLATE=2459 MJD=54544 sdR-b1-00051142.fit 1D Sky-subtraction Sky Fiber
Median χ^2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
10
0
-10
-20
-30
50
100
150
200
250
300
Fiber number

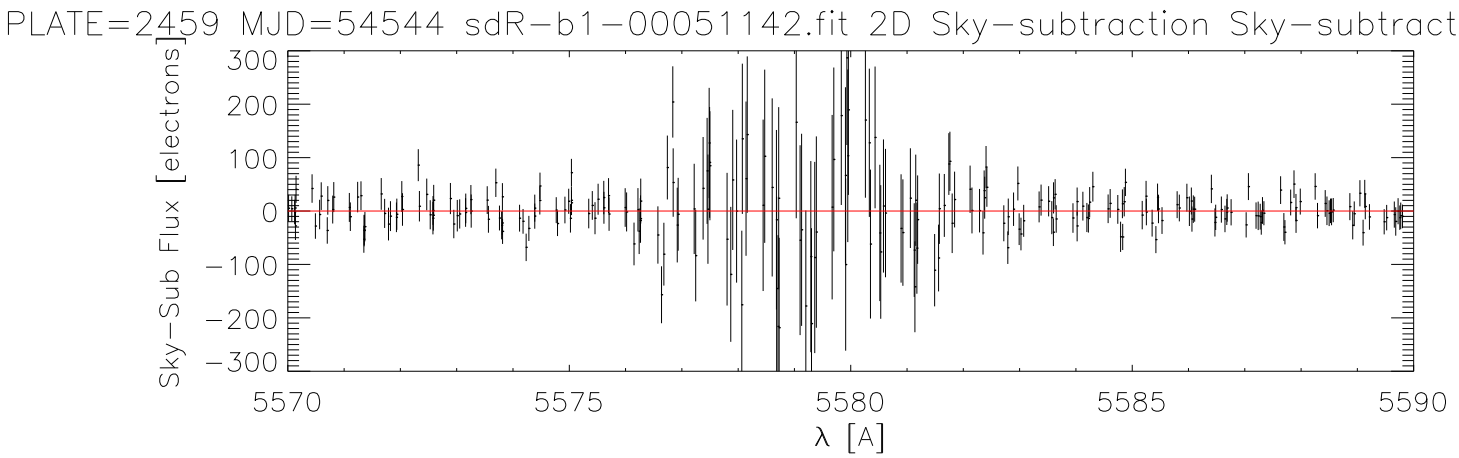

PLATE=2459 MJD=54544 sdR-b1-00051142.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

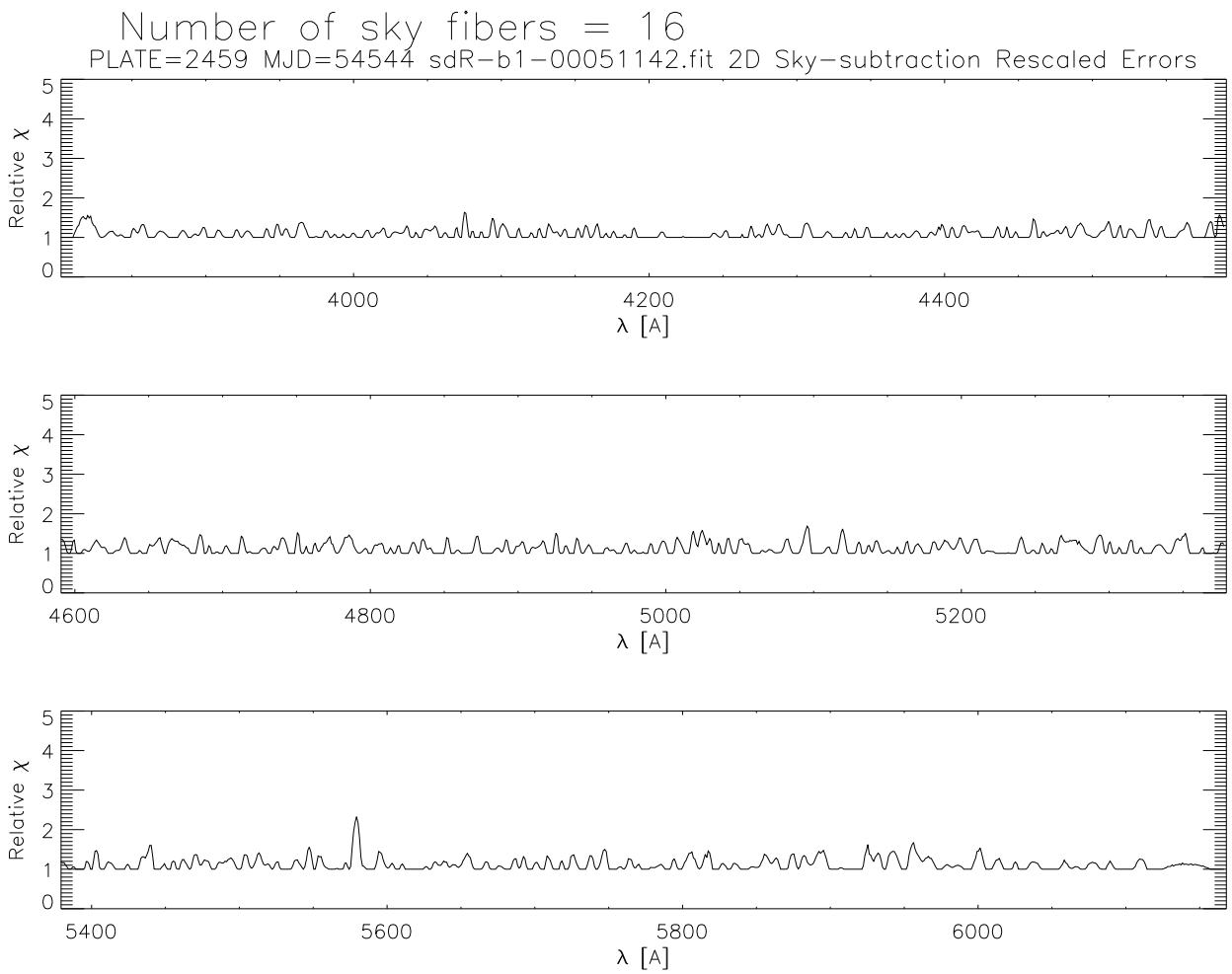

PLATE=2459 MJD=54544 sdR-b1-00051142.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

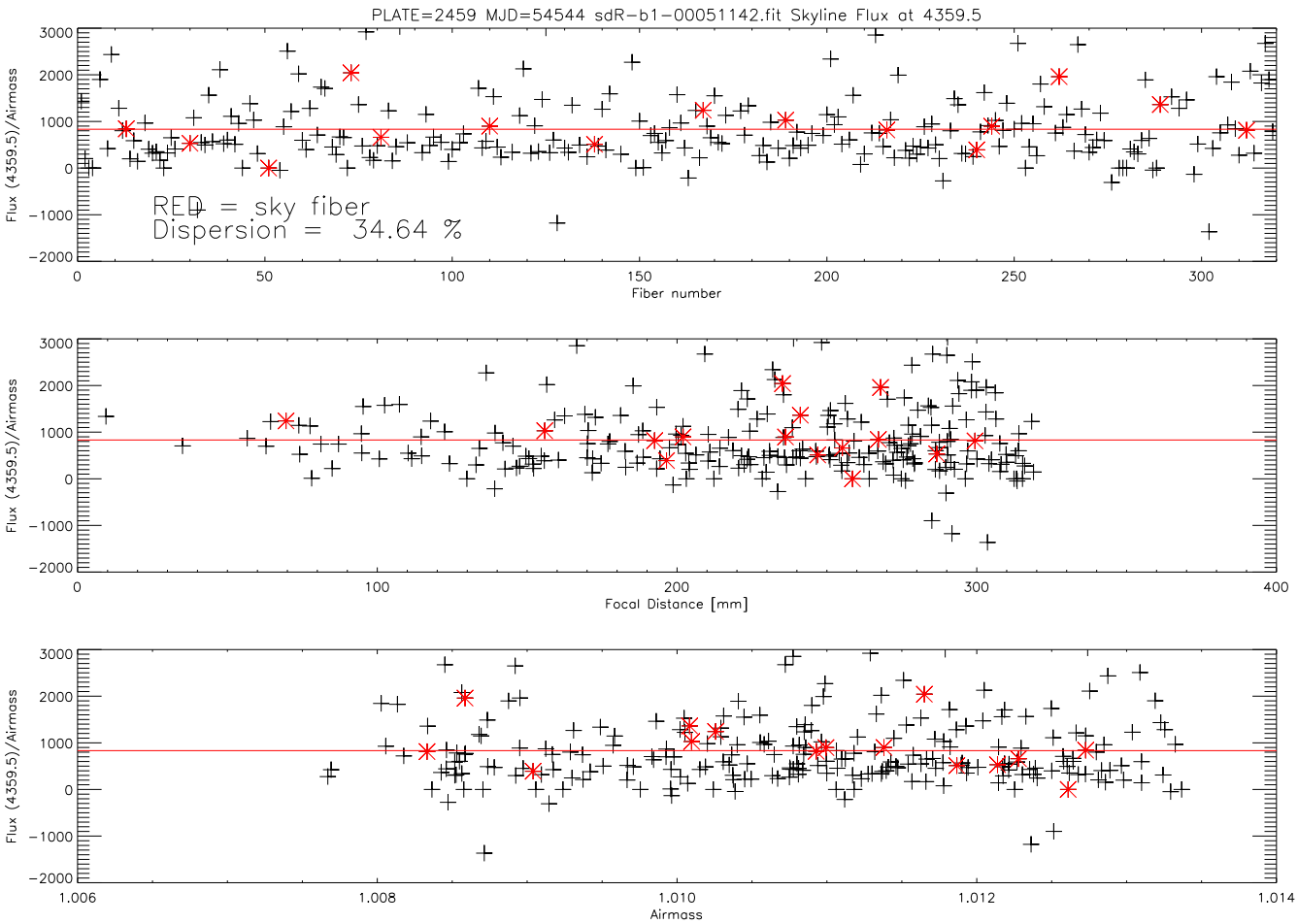

Number of sky fibers = 16
PLATE=2459 MJD=54544 sdR-b1-00051142.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

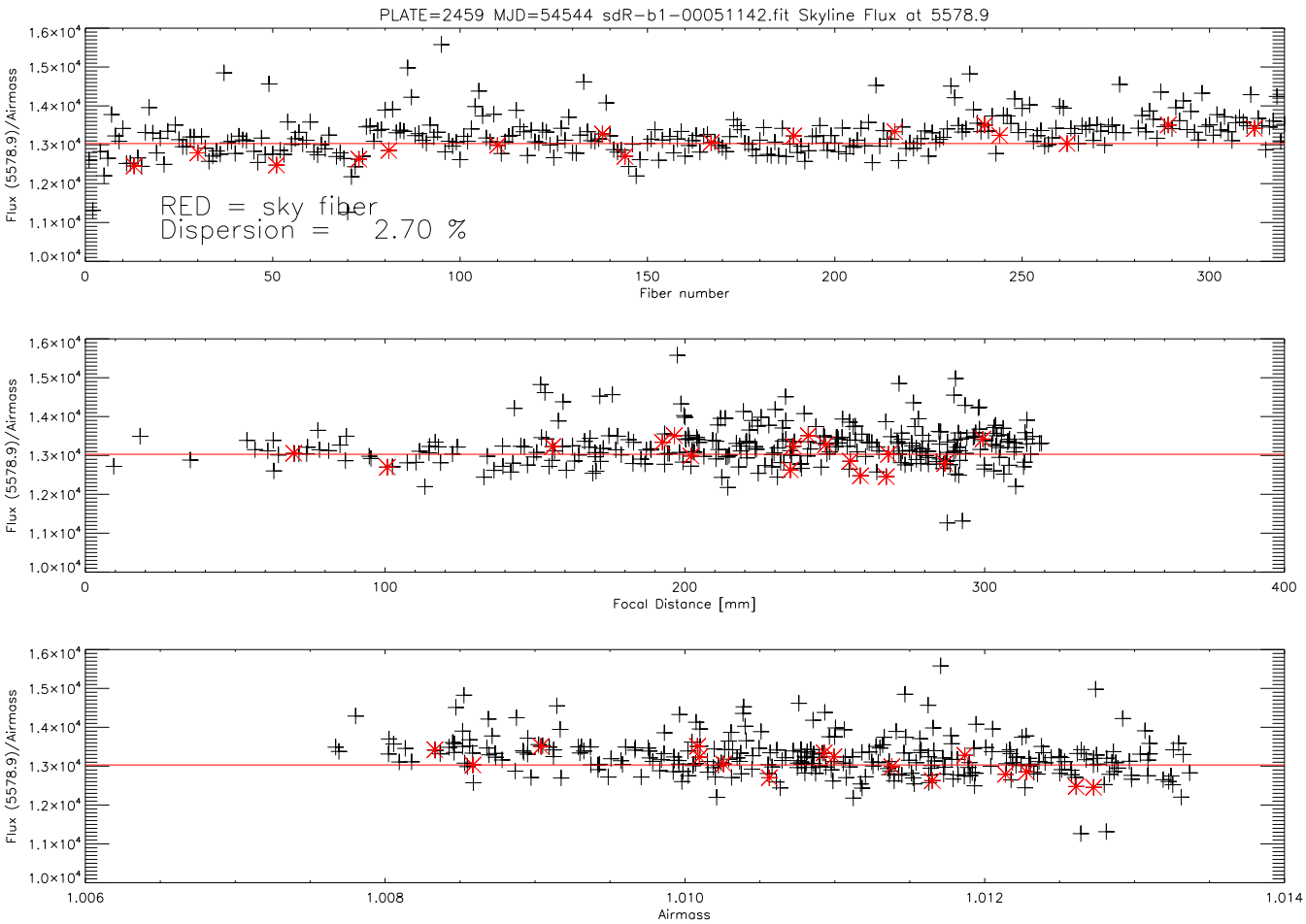

PLATE=2459 MJD=54544 sdR-b1-00051142.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
10
0
-10
-20
-30
50
100
150
200
250
300
Fiber number

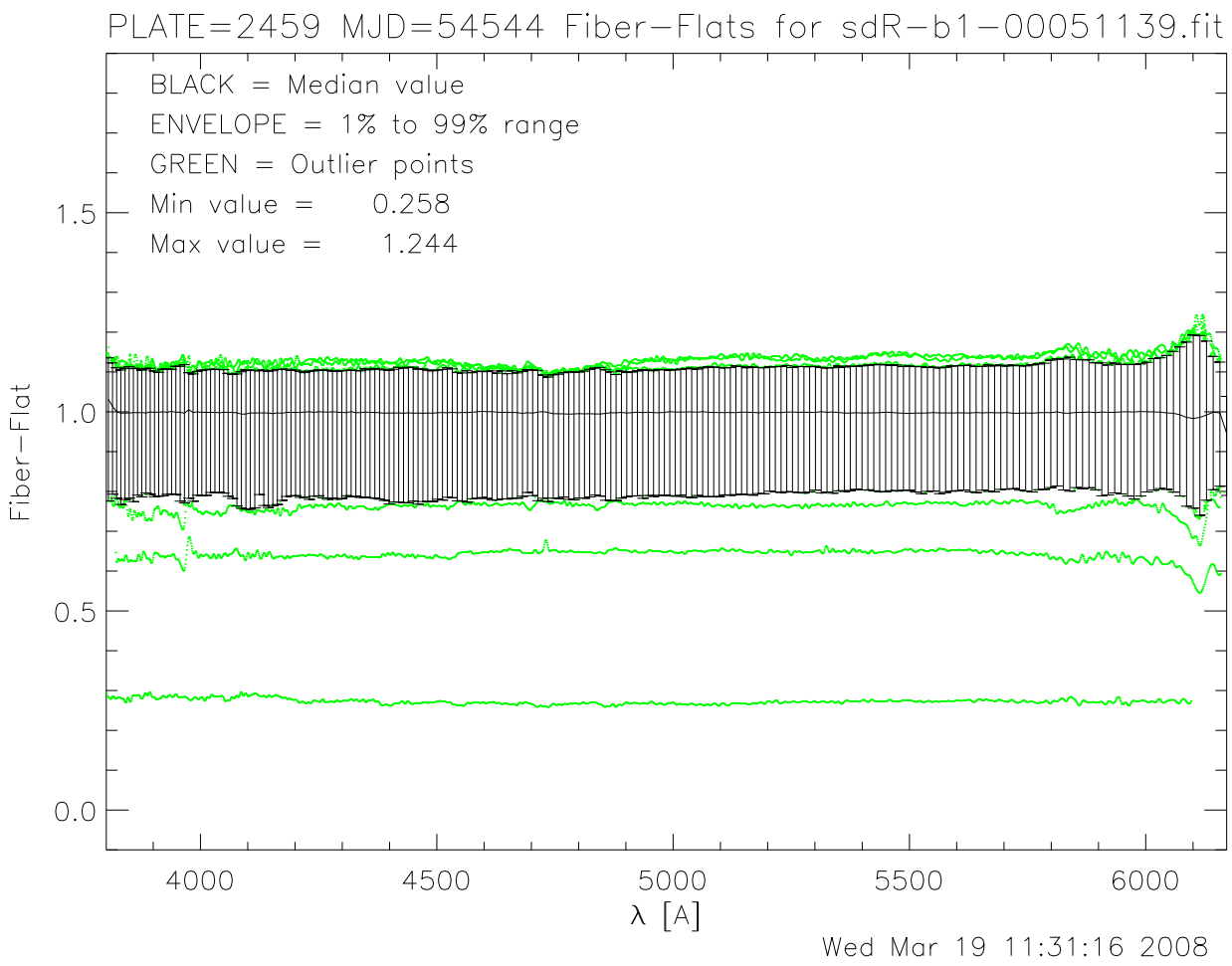

PLATE=2459 MJD=54544 sdR-b1-00051142.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

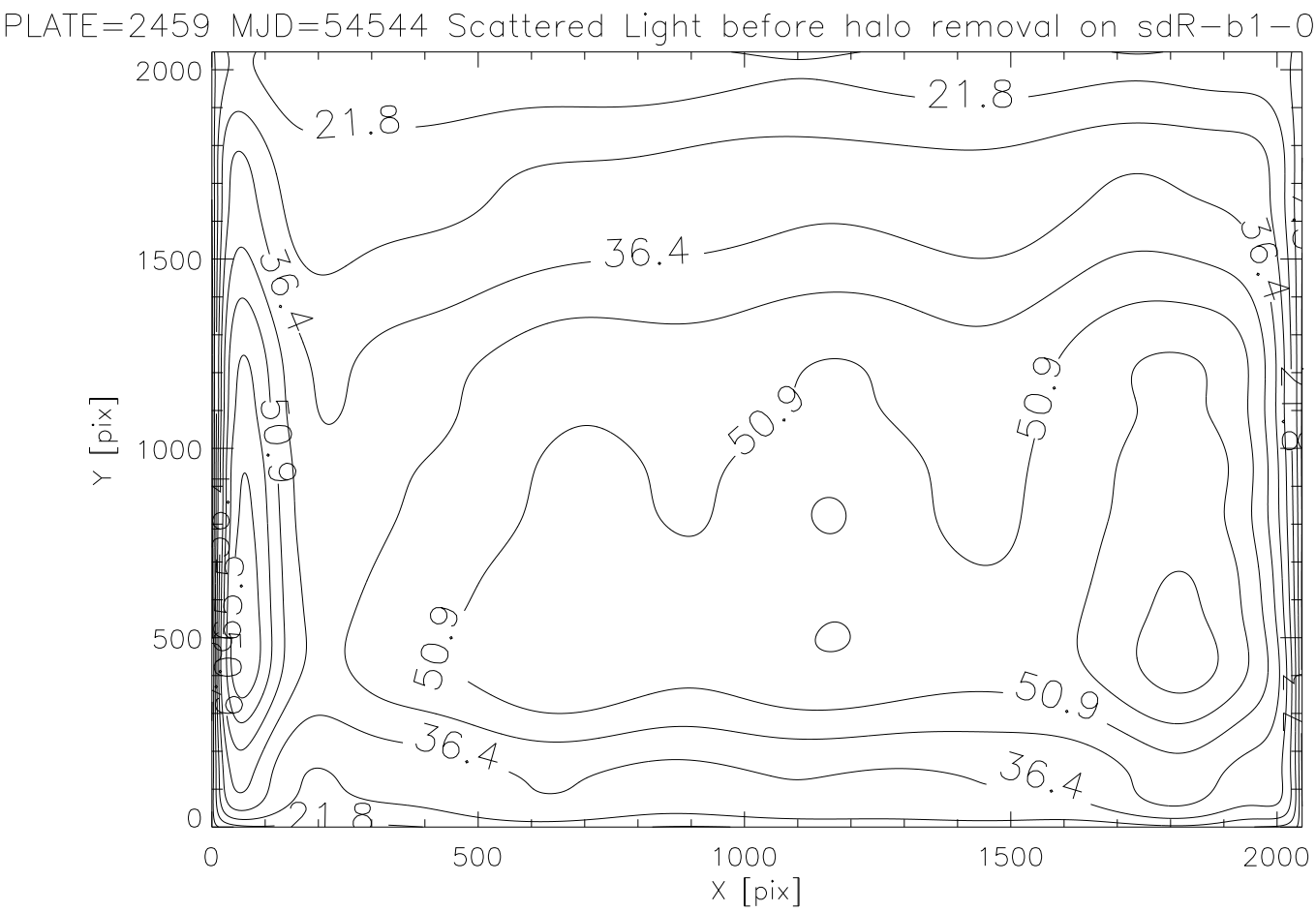

PLATE=2459 MJD=54544 sdR-b1-00051142.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

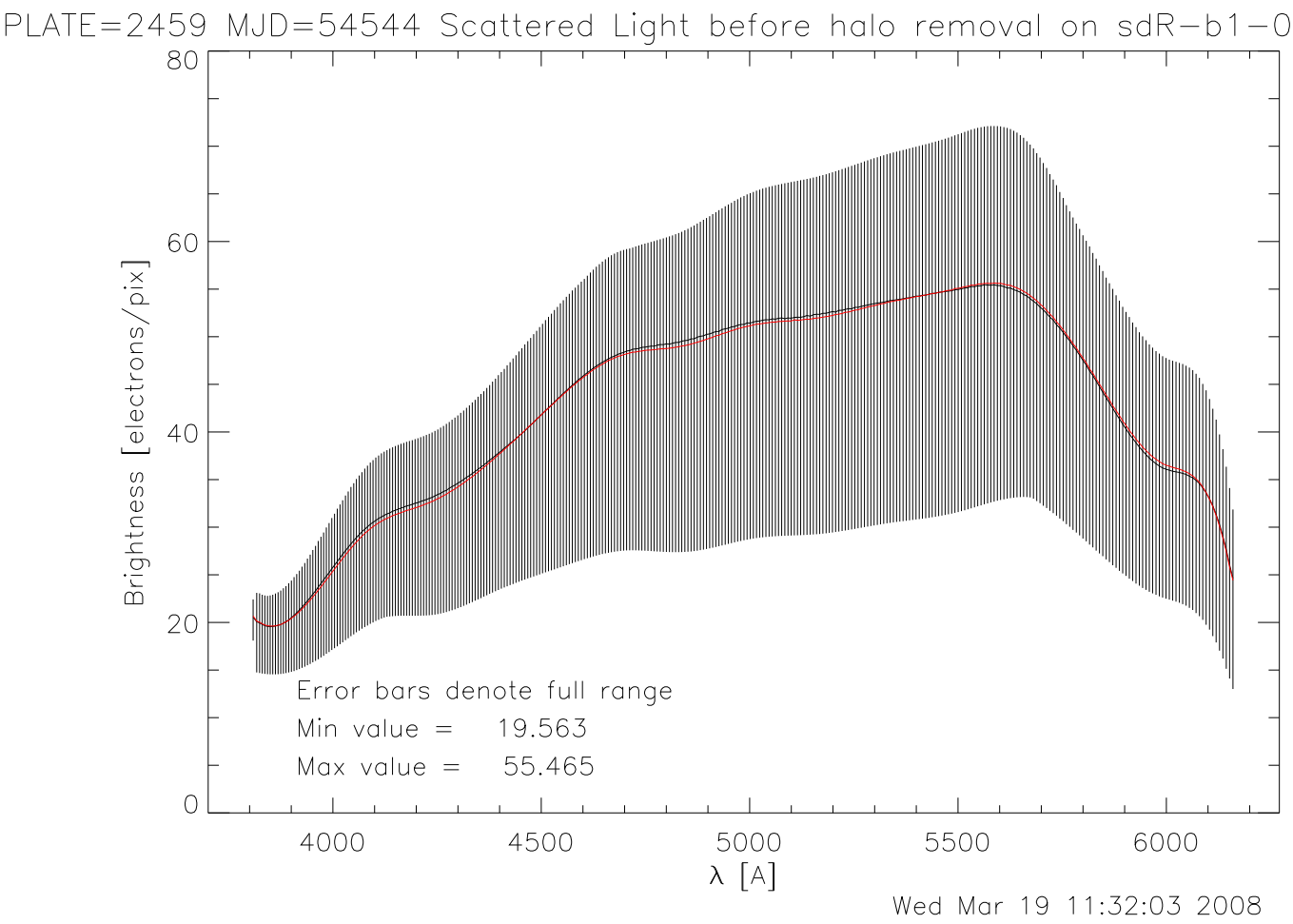

Number of sky fibers = 16
PLATE=2459 MJD=54544 sdR-b1-00051142.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

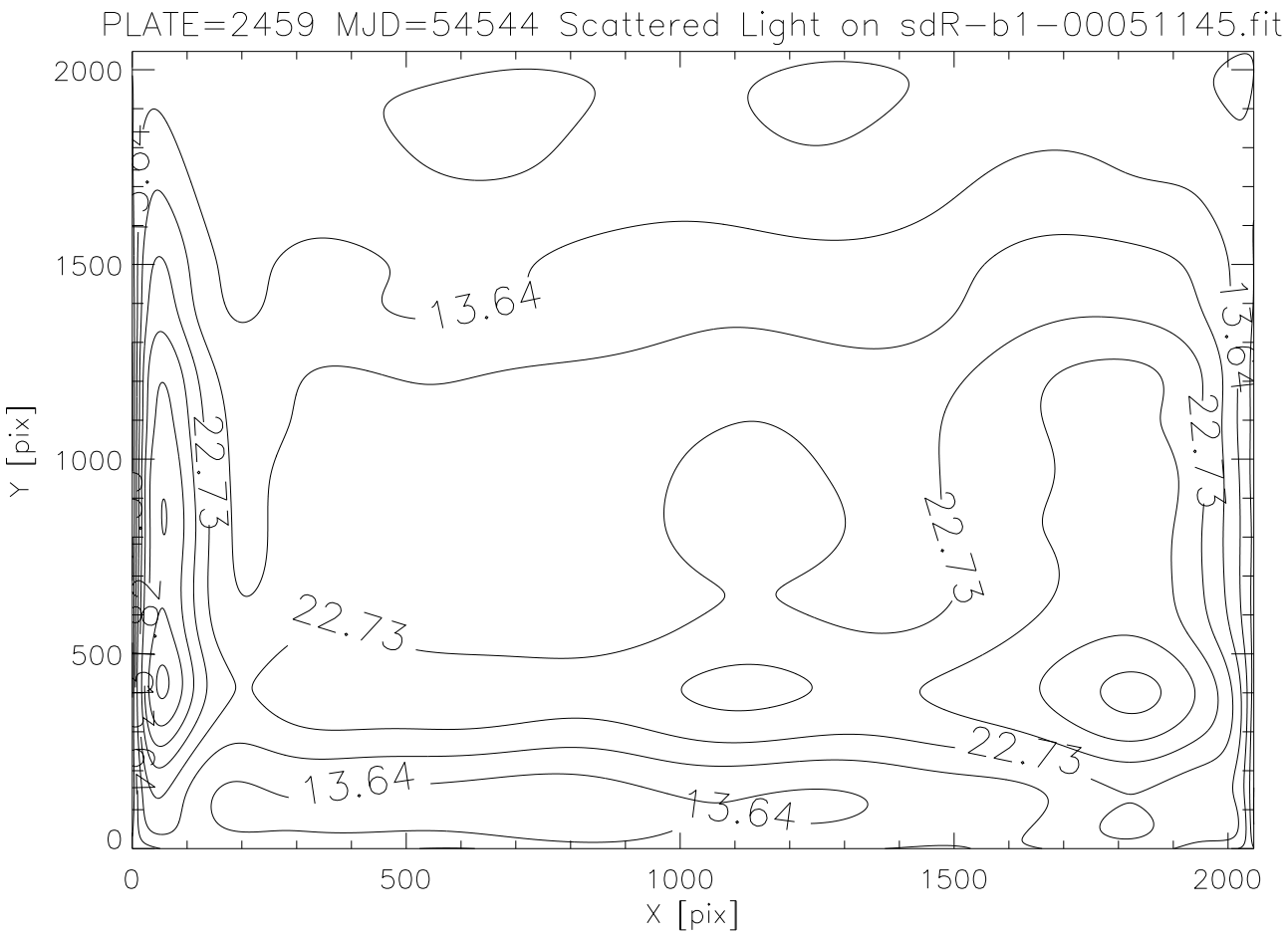

PLATE=2459 MJD=54544 sdR-b1-00051142.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 34.64 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

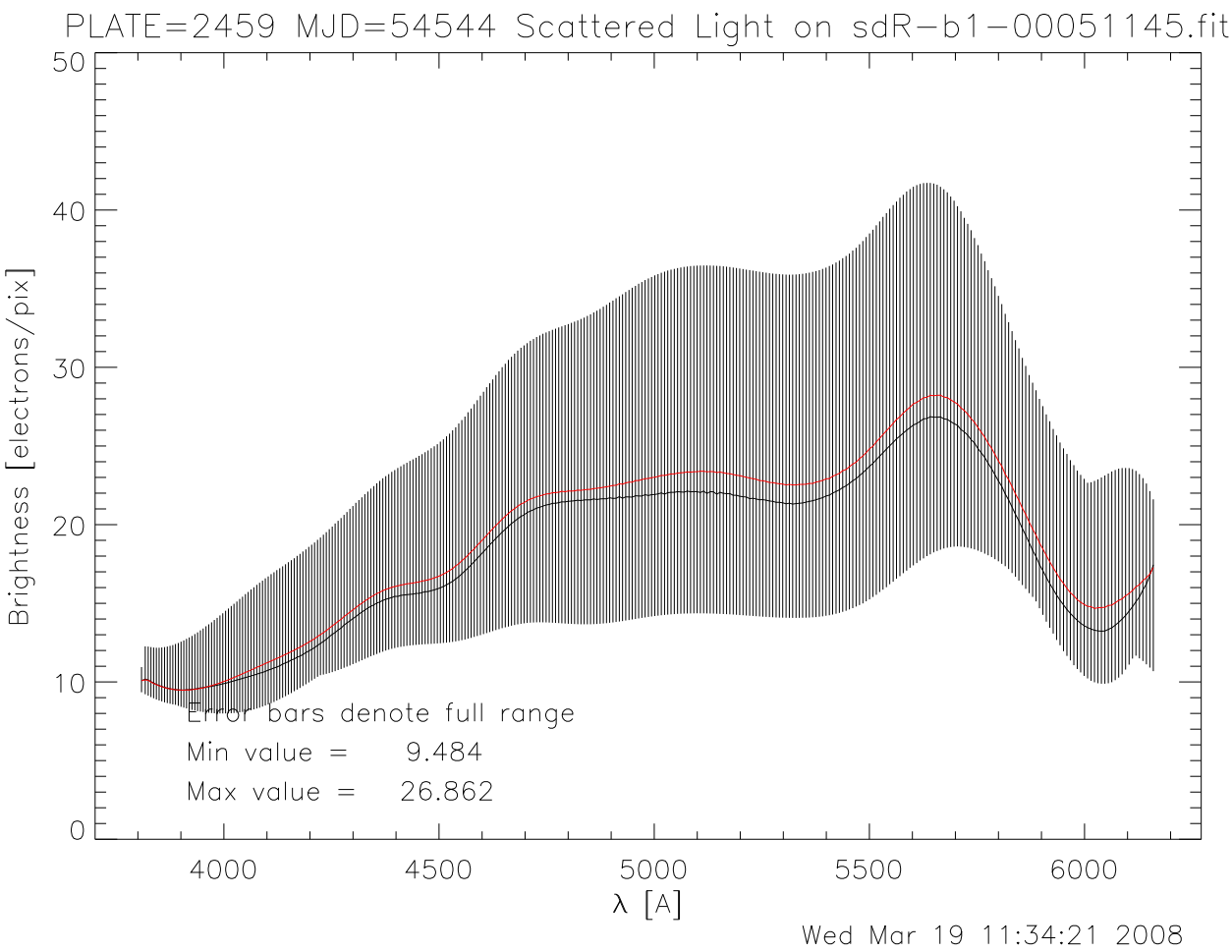

PLATE=2459 MJD=54544 sdR-b1-00051142.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.70 %
Fiber number
Focal Distance [mm]
Airmass

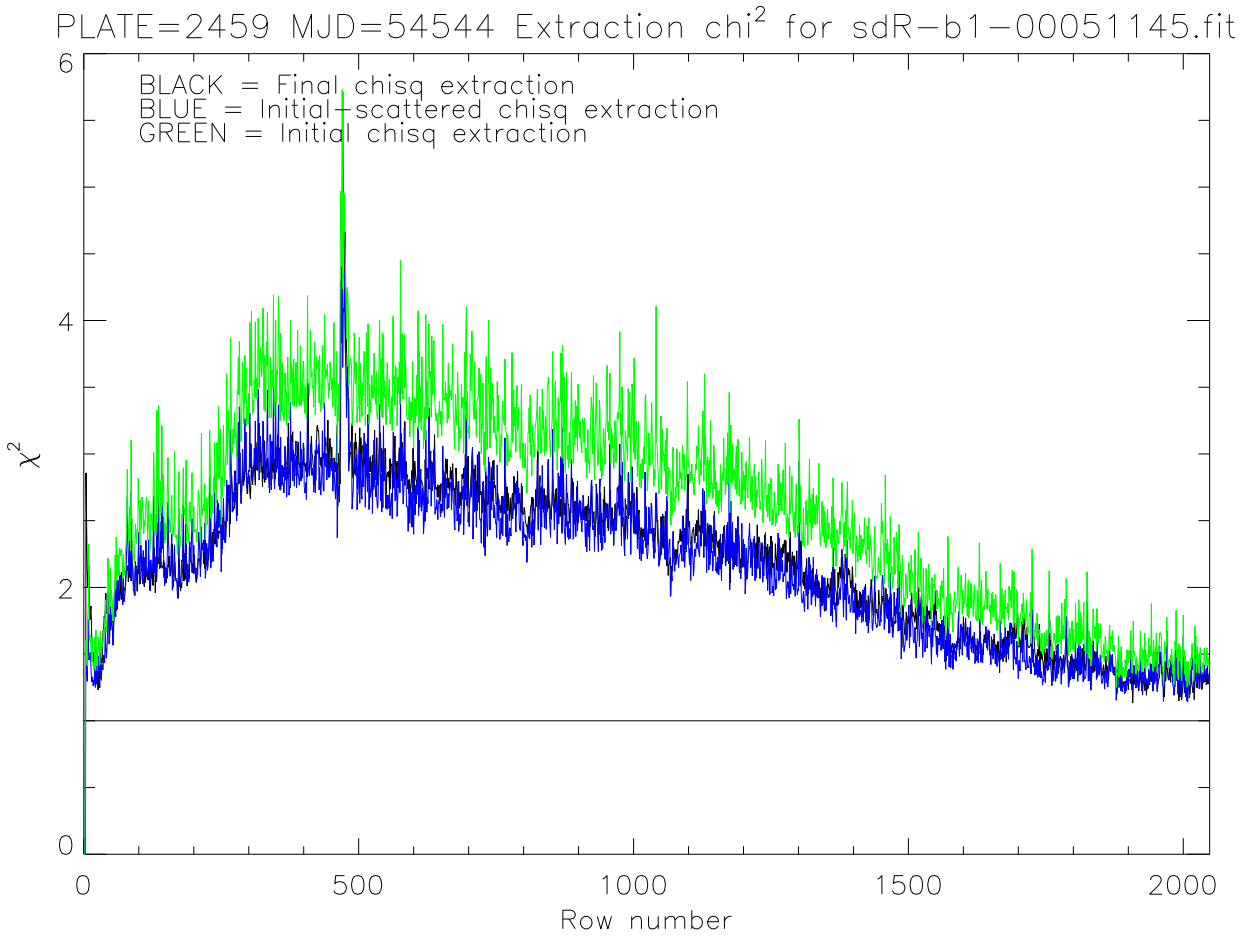

PLATE=2459 MJD=54544 Fiber−Flats for sdR−b1−00051139.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.258
Max value = 1.244
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 19 11:31:16 2008

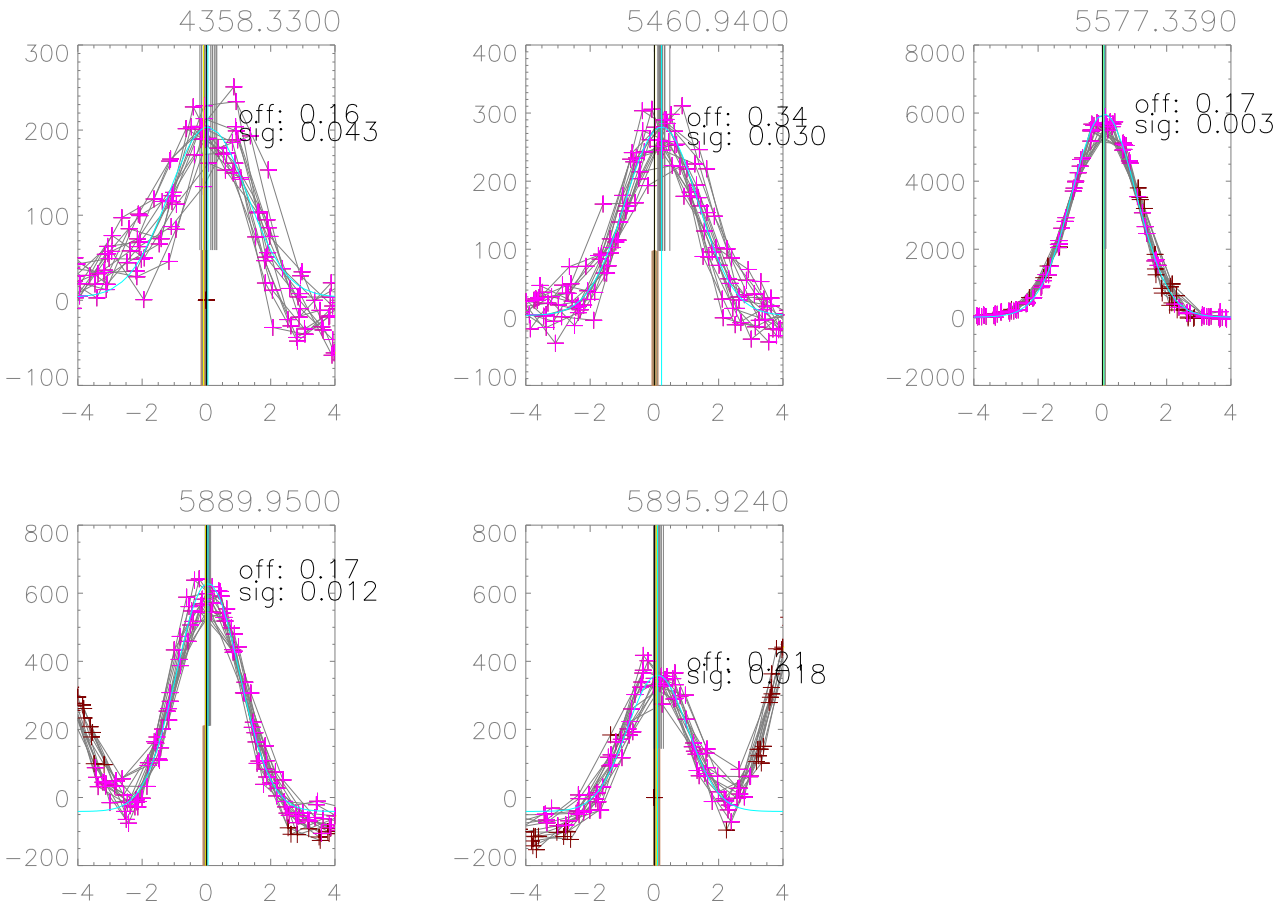

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR−b1−00051145.f
21.8
36.4
50.9
Y [pix]
X [pix]
0
500
1000
1500
2000

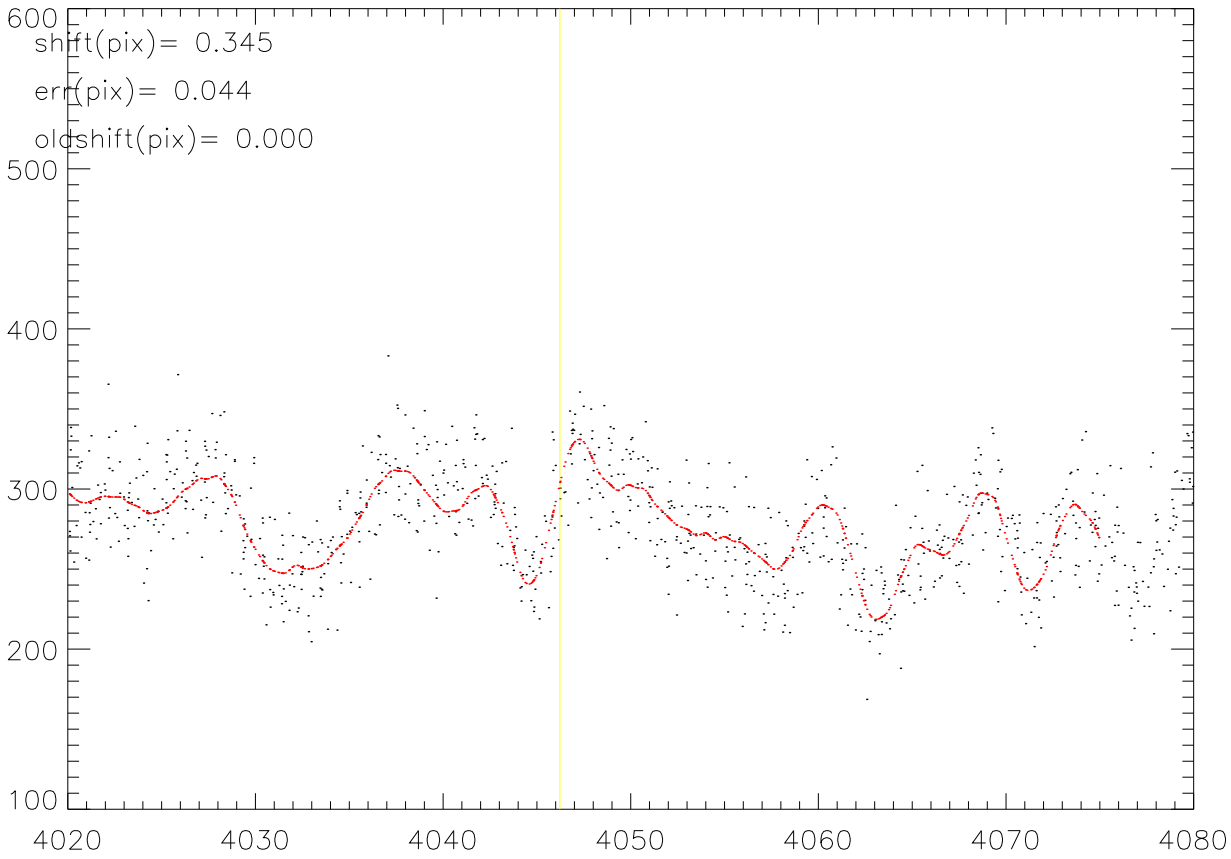

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-b1-00051145.f
Brightness [electrons/pix]
80
60
40
20
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 19.563
Max value = 55.465
Wed Mar 19 11:32:03 2008

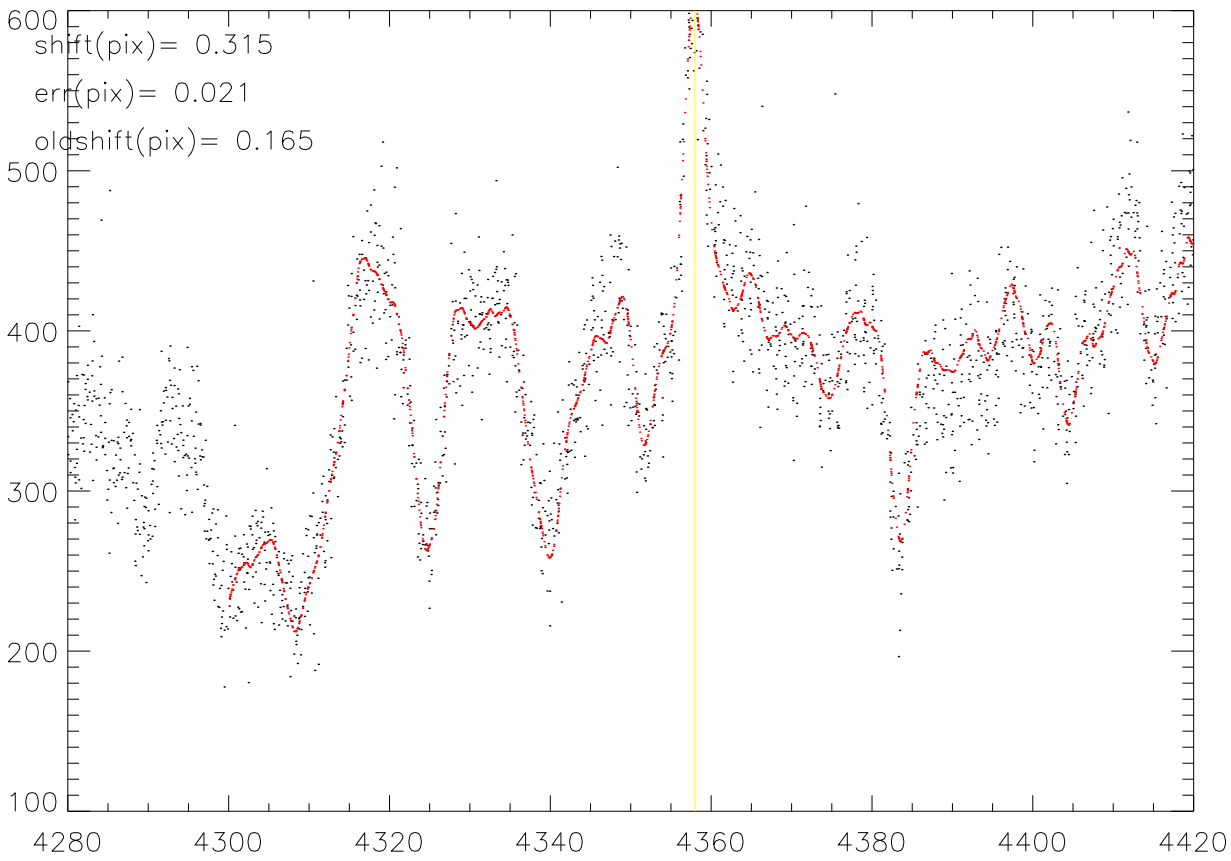

PLATE=2459 MJD=54544 Scattered Light on sdR-b1-00051145.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
13.64
22.73

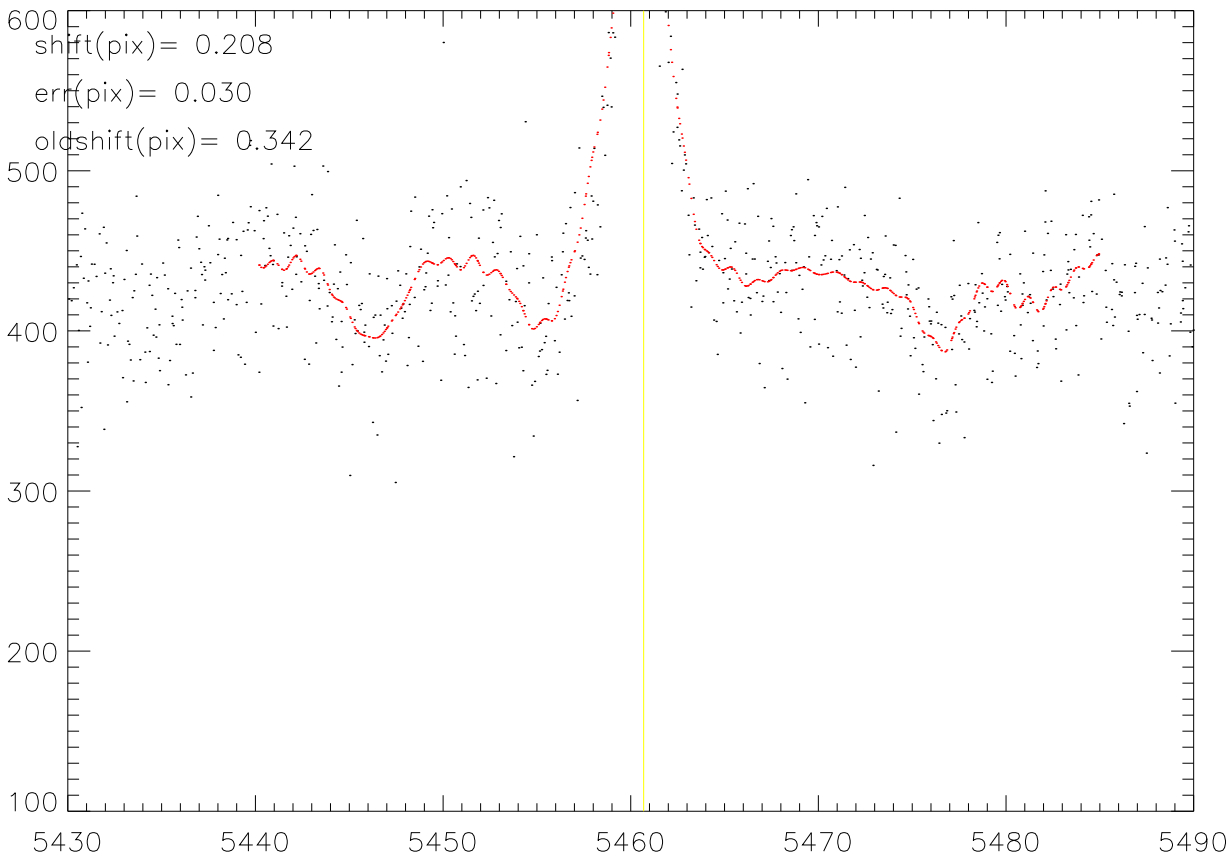

PLATE=2459 MJD=54544 Scattered Light on sdR-b1-00051145.fit
Brightness [electrons/pix]
50
40
30
20
10
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 9.484
Max value = 26.862
Wed Mar 19 11:34:21 2008

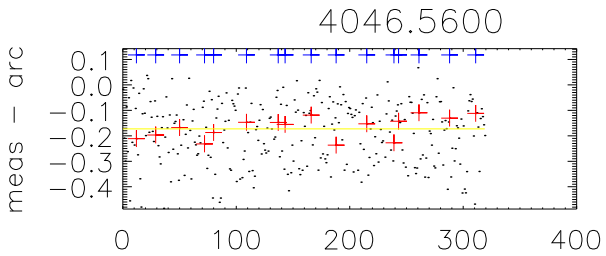

PLATE=2459 MJD=54544 Extraction chi^2 for sdR-b1-00051145.fit
BLACK = Final chisq extraction
BLUE = Initial+scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
0
500
1000
1500
2000
Row number

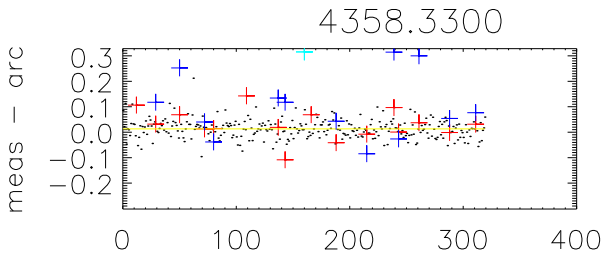

4358.3300
off: 0.16
sig: 0.043
5460.9400
off: 0.34
sig: 0.030
5577.3390
off: 0.17
sig: 0.003
5889.9500
off: 0.17
sig: 0.012
5895.9240
off: 0.21
sig: 0.018

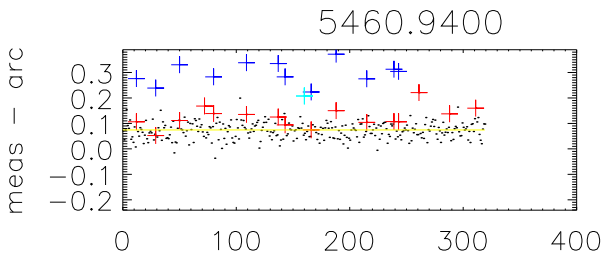

shift(pix)= 0.345
err(pix)= 0.044
oldshift(pix)= 0.000
600
500
400
300
200
100
4020
4030
4040
4050
4060
4070
4080

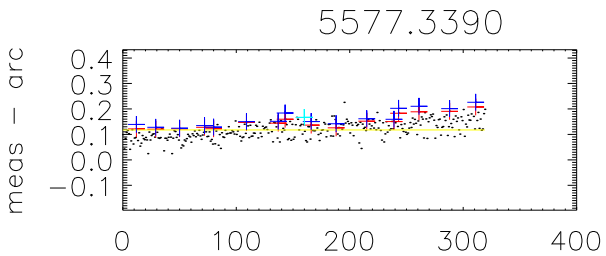

shift(pix)= 0.315
err(pix)= 0.021
oldshift(pix)= 0.165
600
500
400
300
200
100
4280
4300
4320
4340
4360
4380
4400
4420

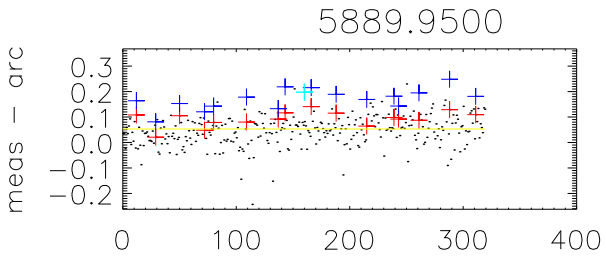

shift(pix)= 0.208
err(pix)= 0.030
oldshift(pix)= 0.342
600
500
400
300
200
100
5430
5440
5450
5460
5470
5480
5490

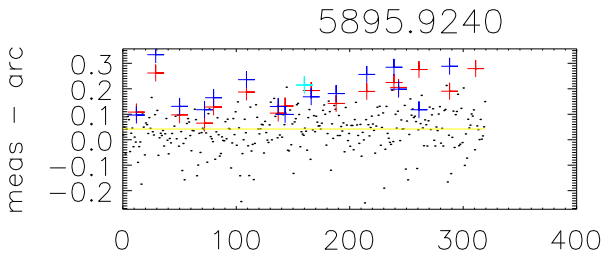

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

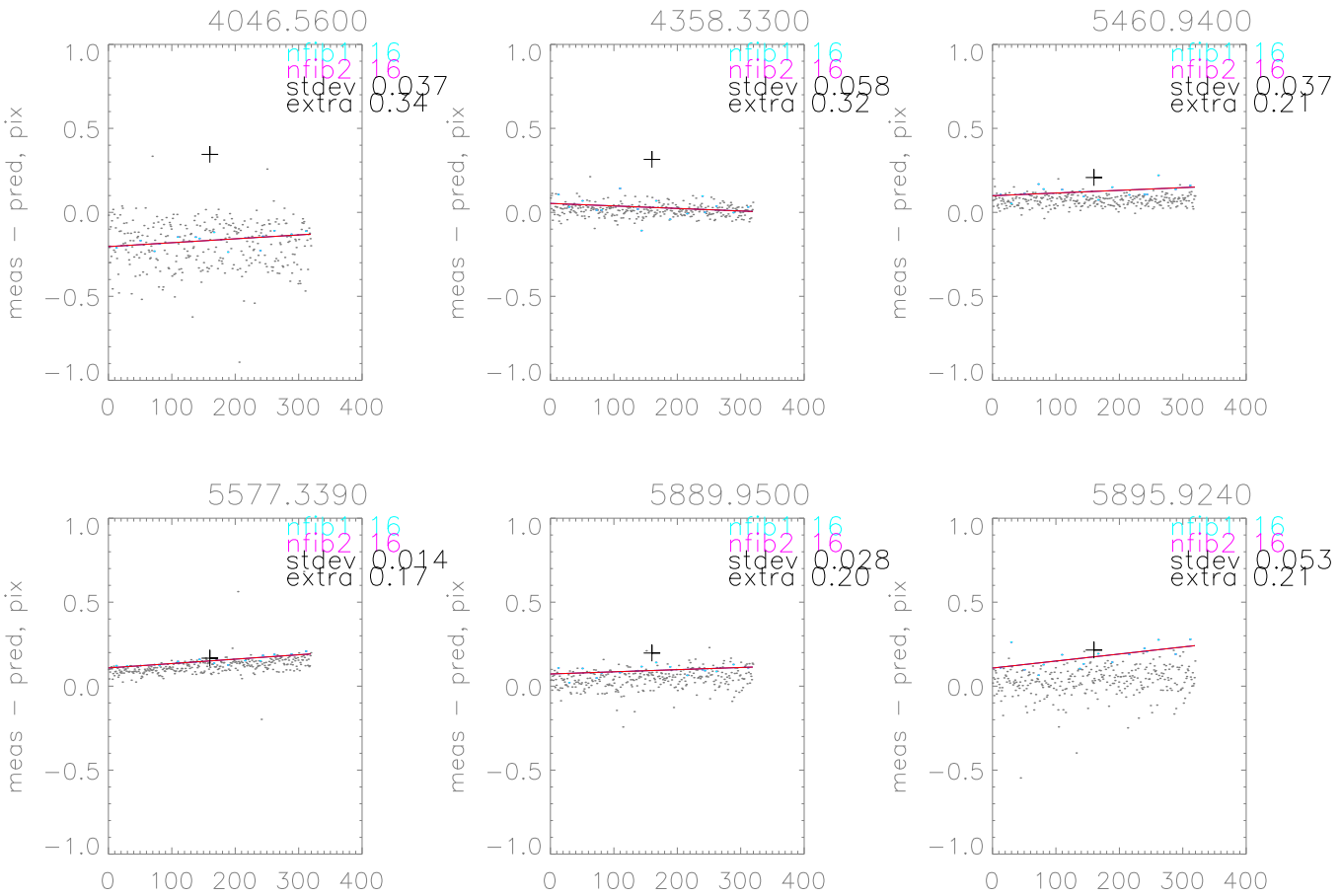

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

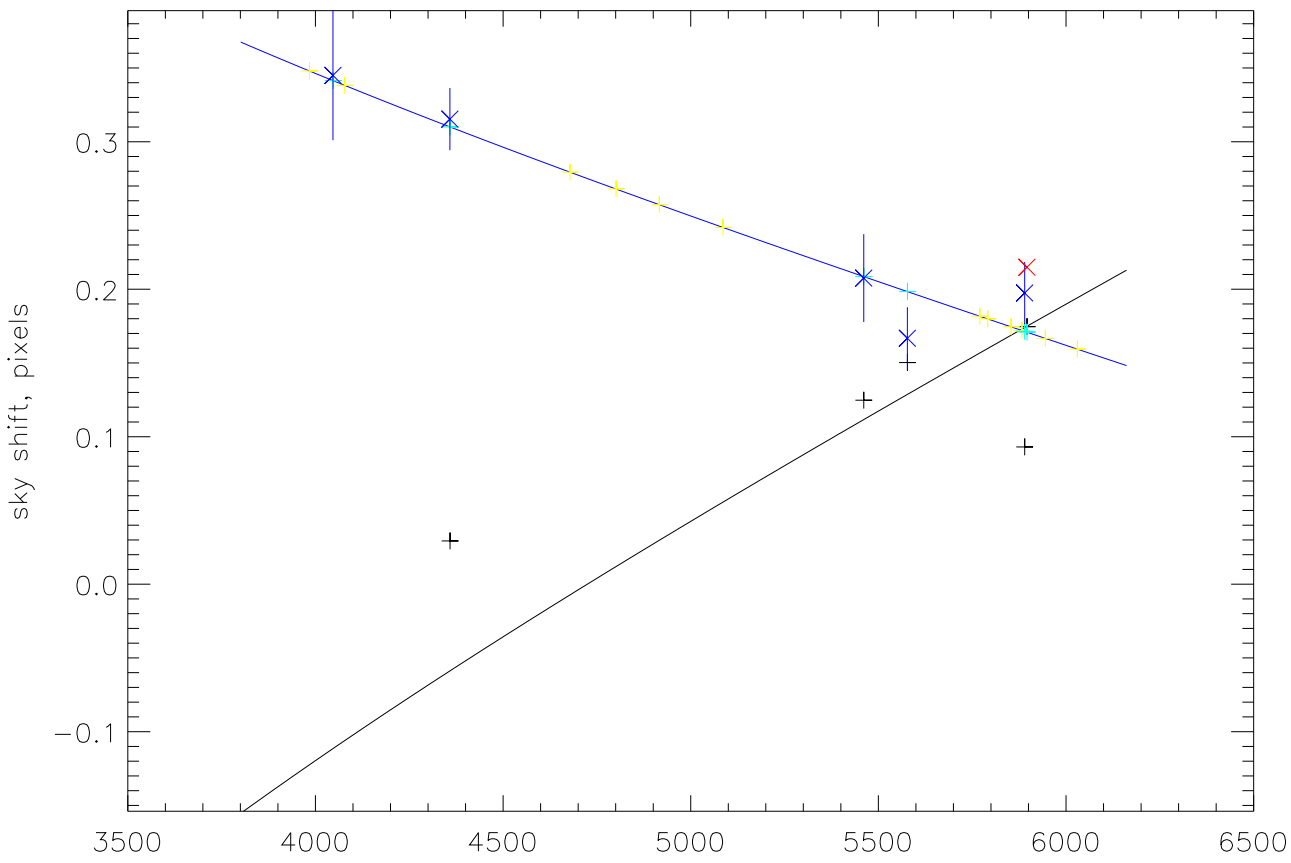

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

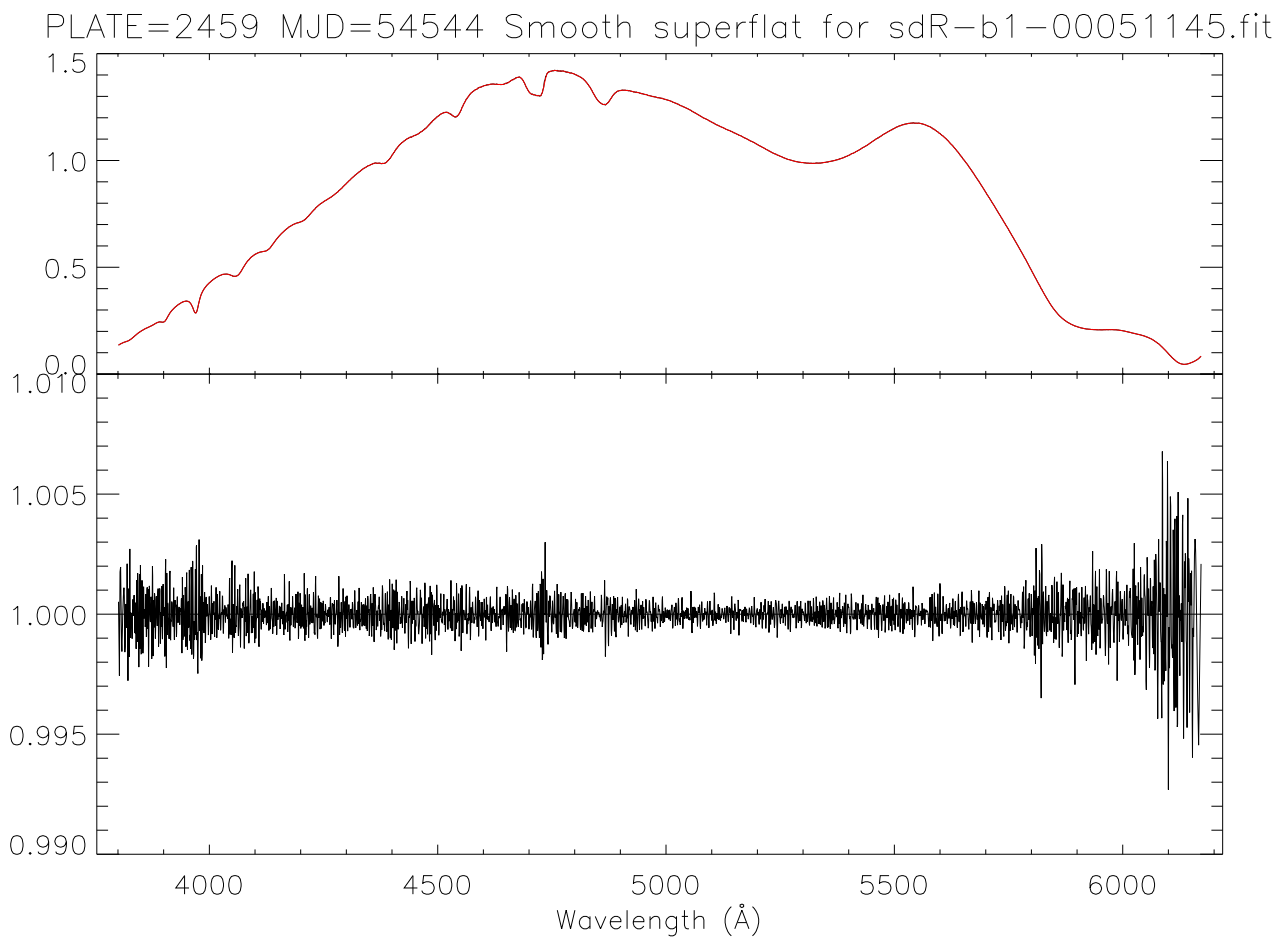

5889.9500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

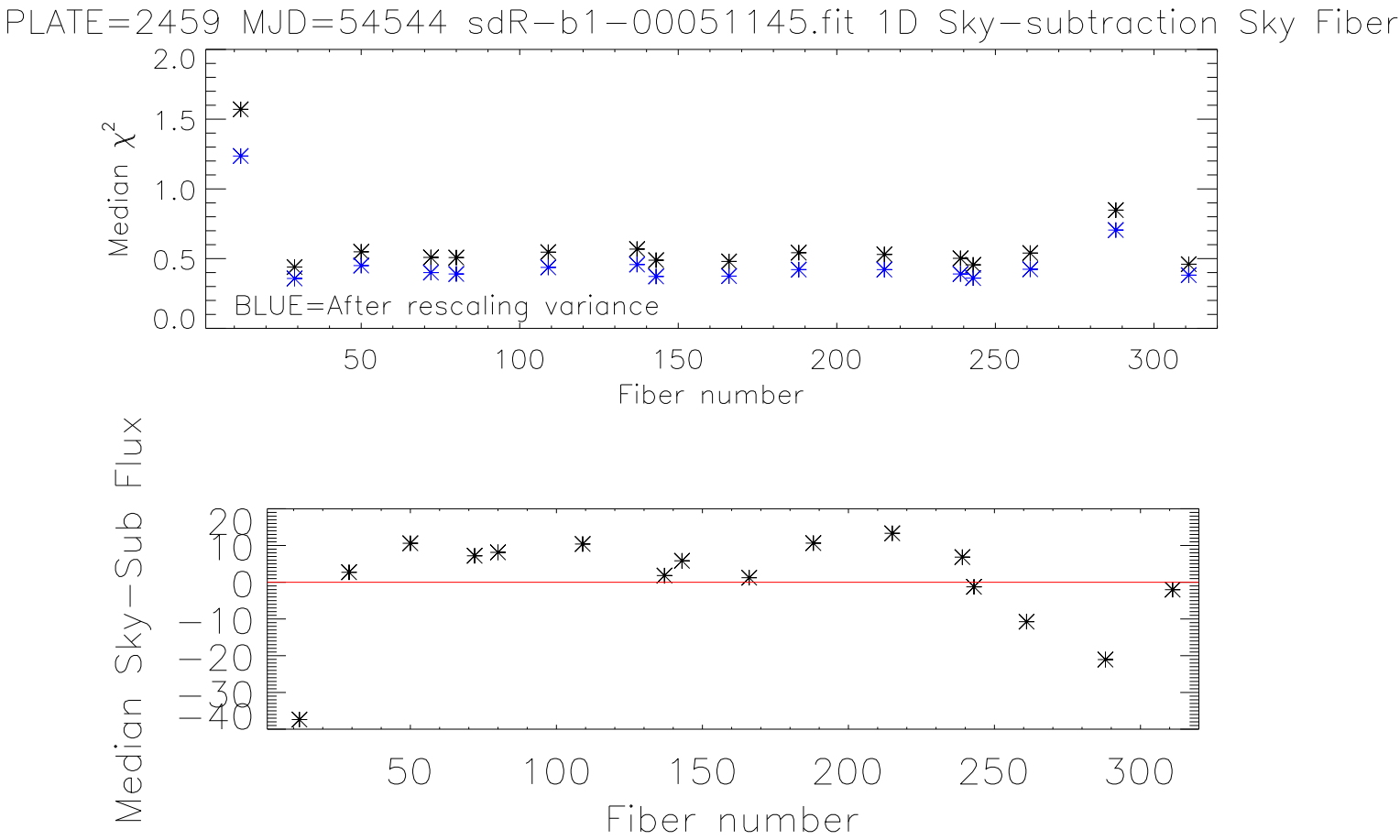

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

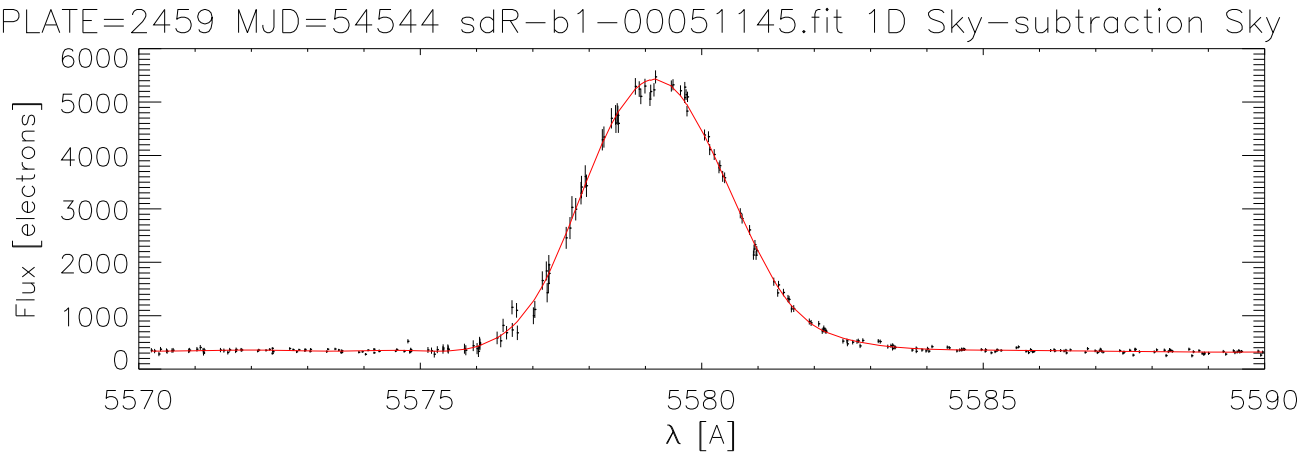

4046.5600
nfib1 16
nfib2 16
stdev 0.037
extra 0.34
4358.3300
nfib1 16
nfib2 16
stdev 0.058
extra 0.32
5460.9400
nfib1 16
nfib2 16
stdev 0.037
extra 0.21
5577.3390
nfib1 16
nfib2 16
stdev 0.014
extra 0.17
5889.9500
nfib1 16
nfib2 16
stdev 0.028
extra 0.20
5895.9240
nfib1 16
nfib2 16
stdev 0.053
extra 0.21
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

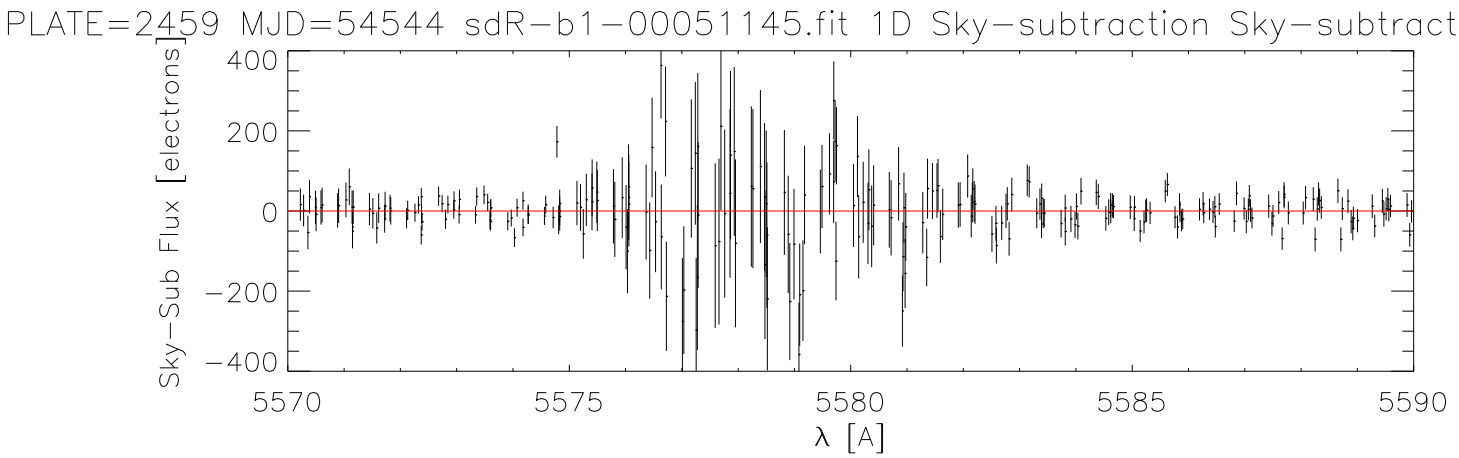

sky shift, pixels
0.3
0.2
0.1
0.0
−0.1
3500
4000
4500
5000
5500
6000
6500

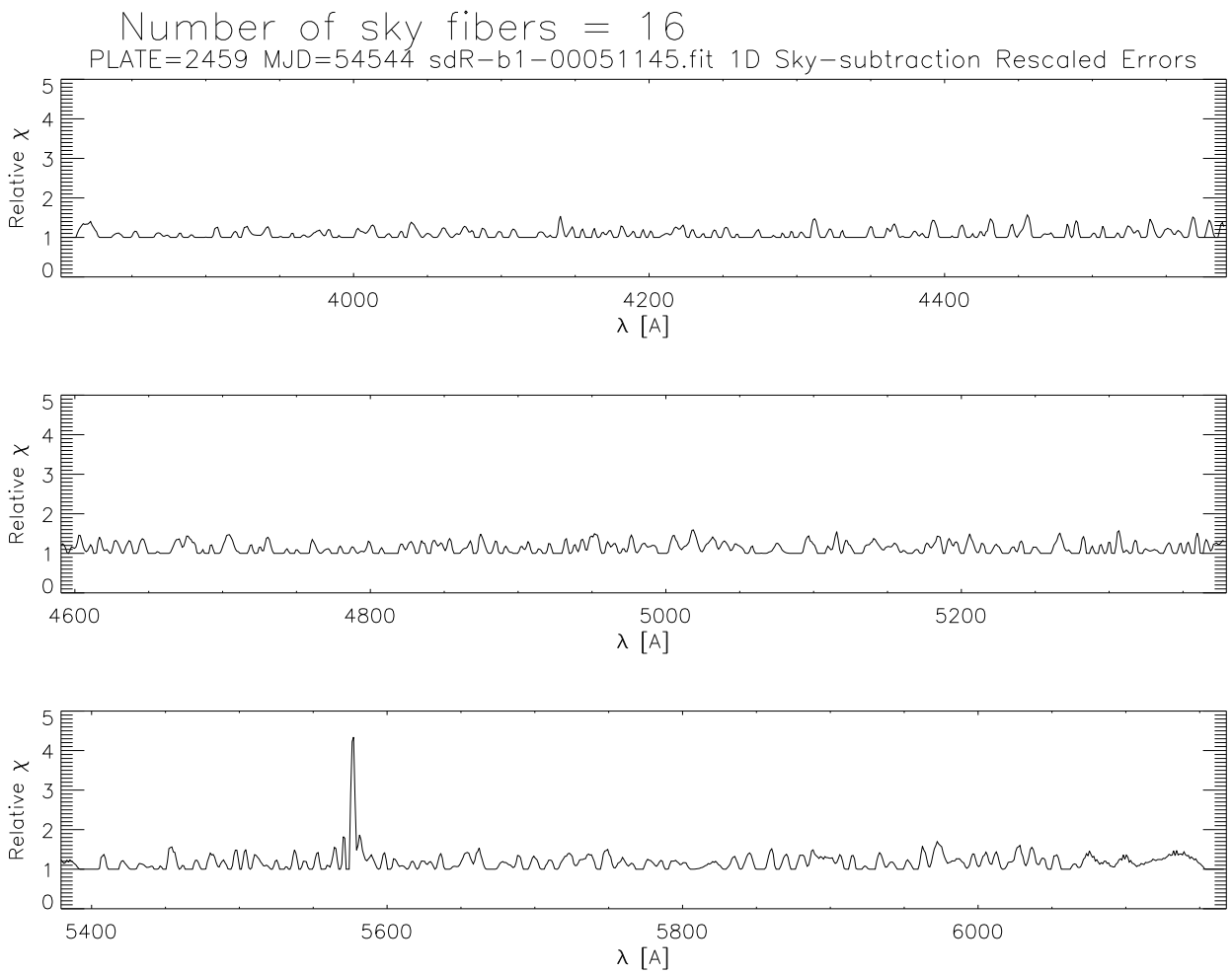
es= 0.0000

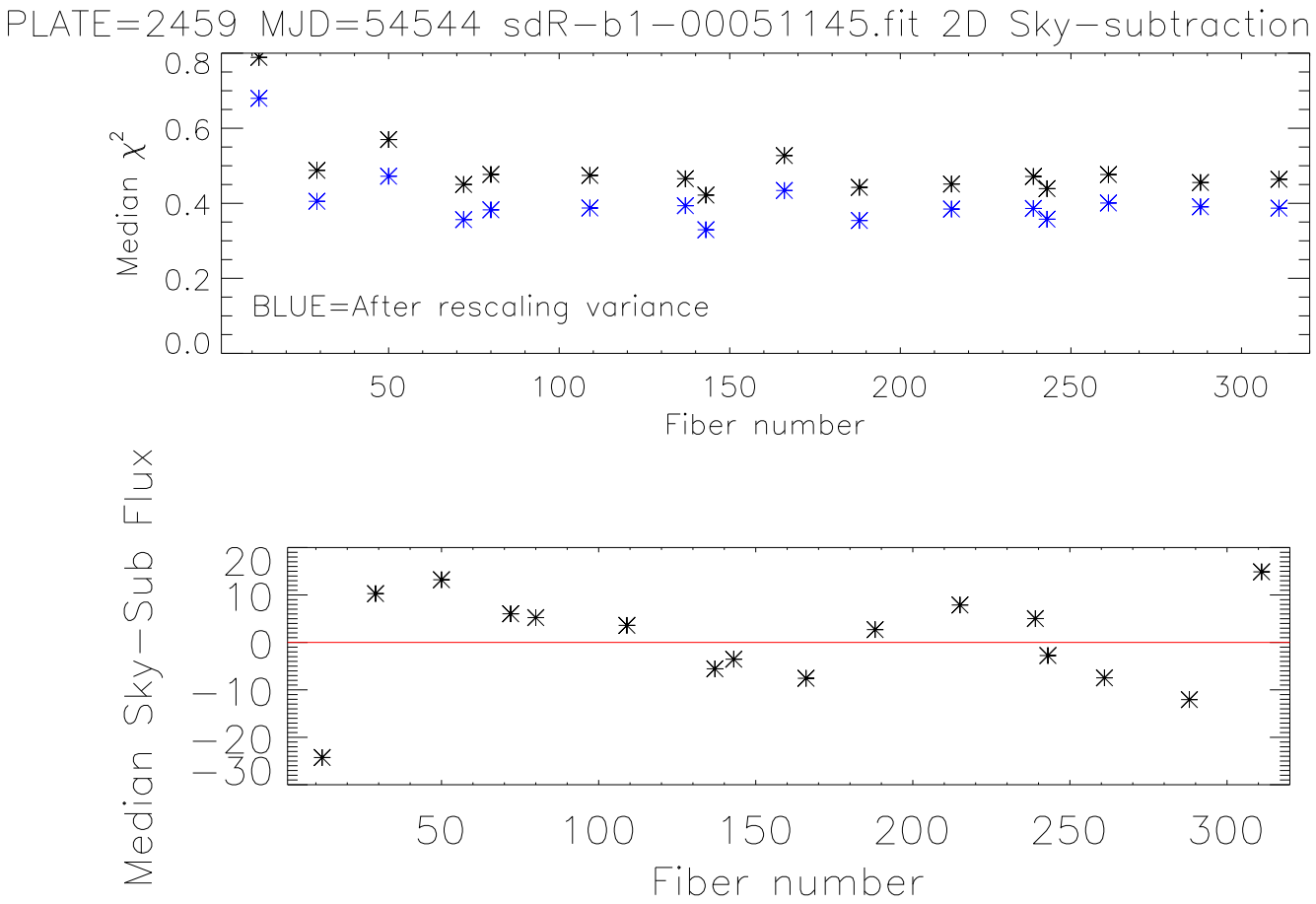

PLATE=2459 MJD=54544 Smooth superflat for sdR-b1-00051145.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

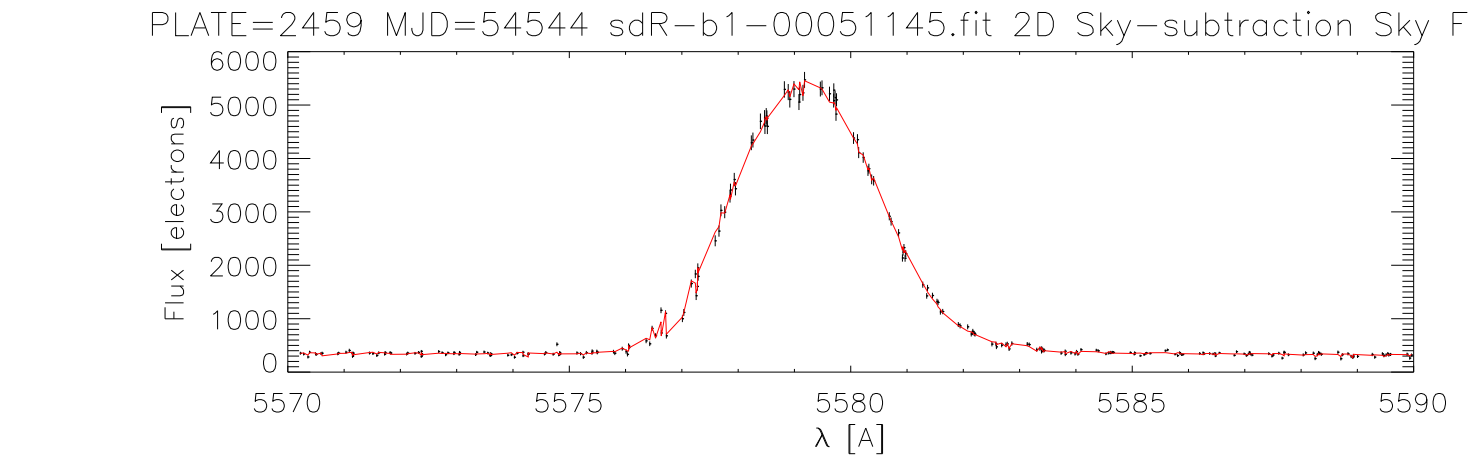

PLATE=2459 MJD=54544 sdR-b1-00051145.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

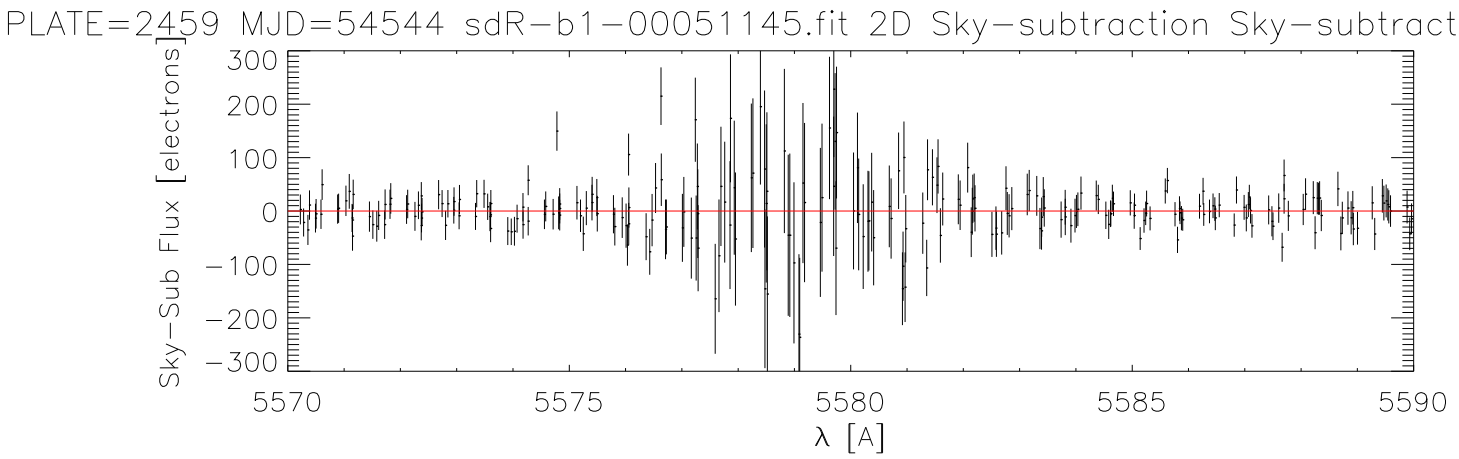

PLATE=2459 MJD=54544 sdR-b1-00051145.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

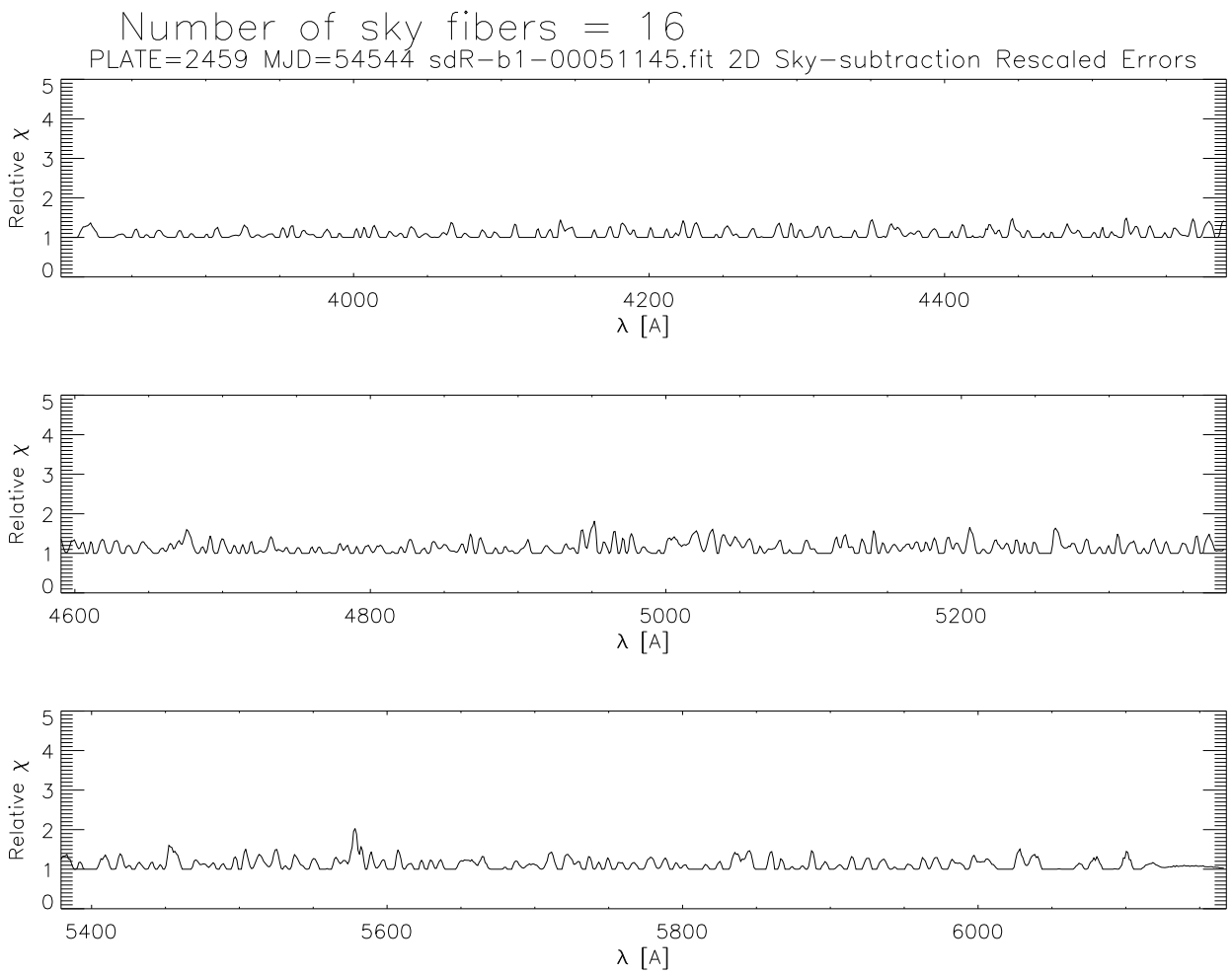

PLATE=2459 MJD=54544 sdR-b1-00051145.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

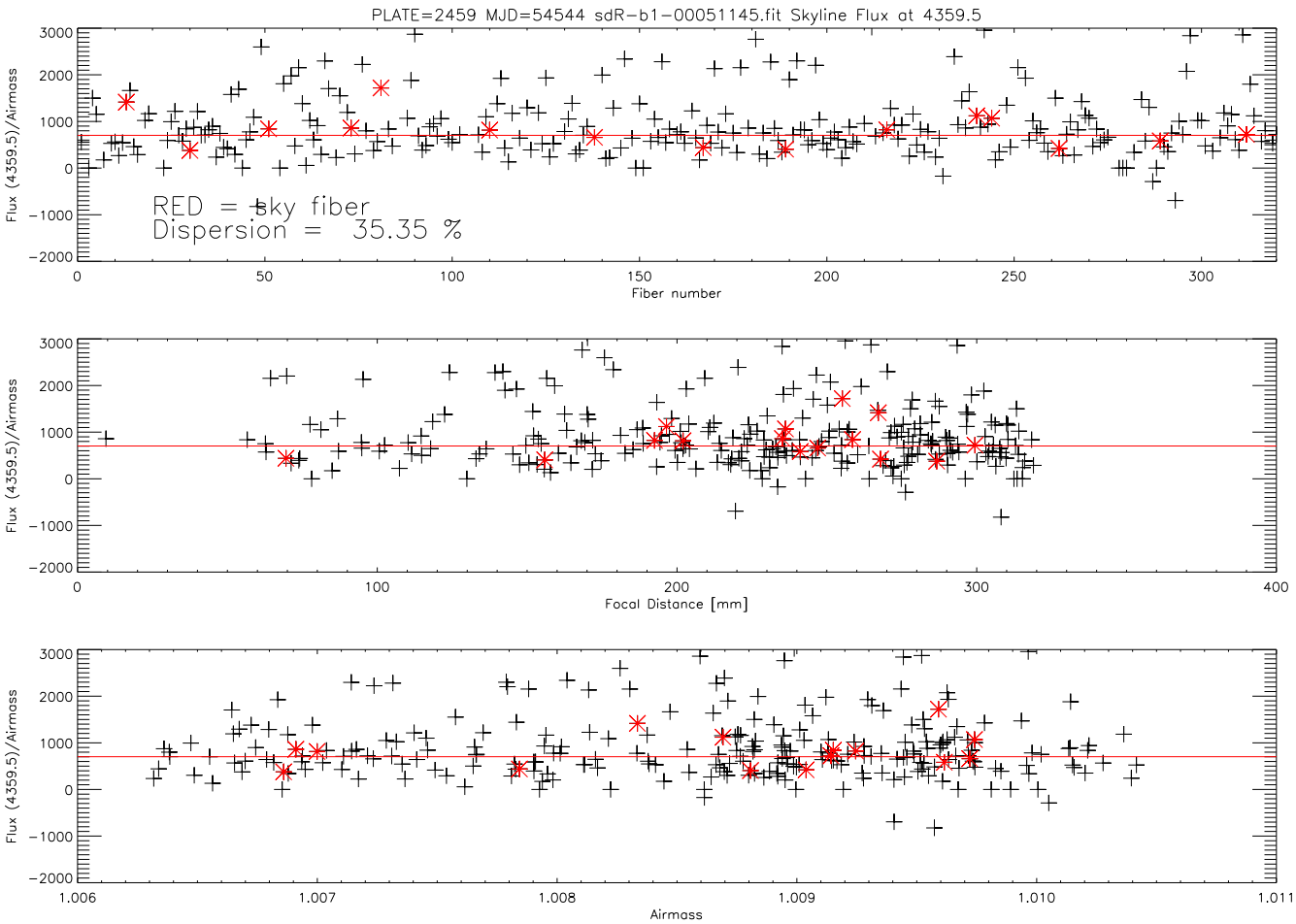

Number of sky fibers = 16
PLATE=2459 MJD=54544 sdR-b1-00051145.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

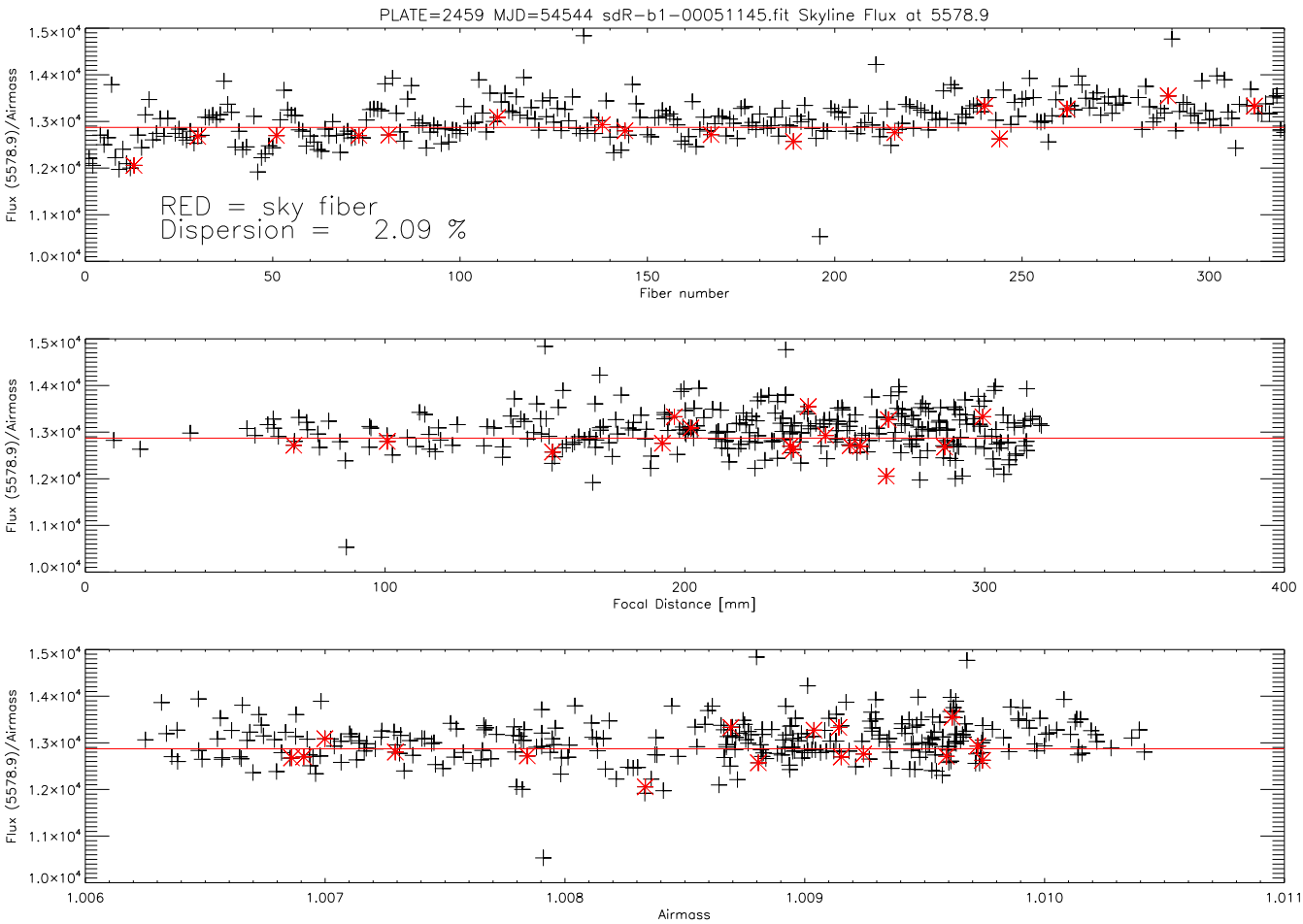

PLATE=2459 MJD=54544 sdR-b1-00051145.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
10
0
-10
-20
-30
50
100
150
200
250
300
Fiber number

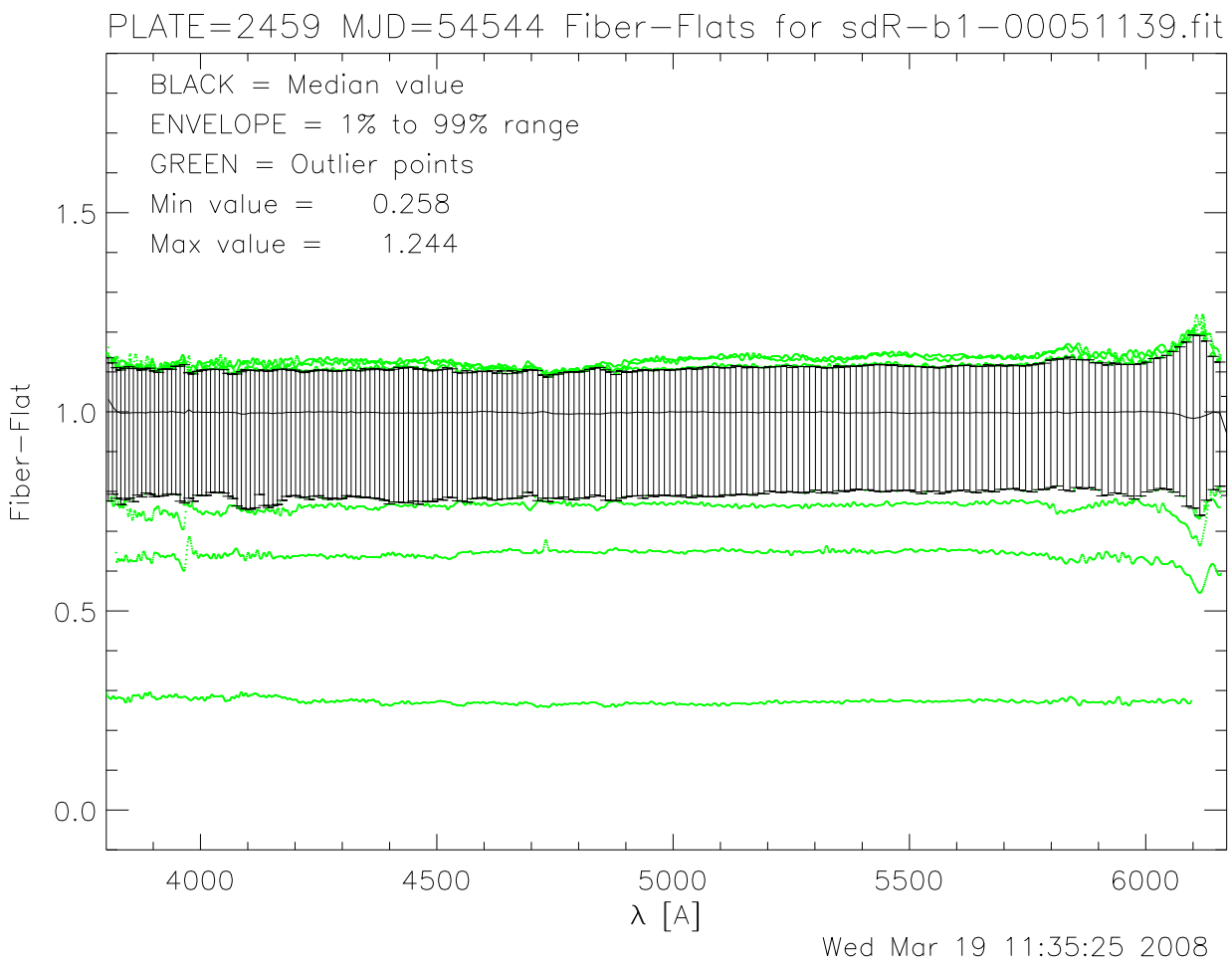

PLATE=2459 MJD=54544 sdR-b1-00051145.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

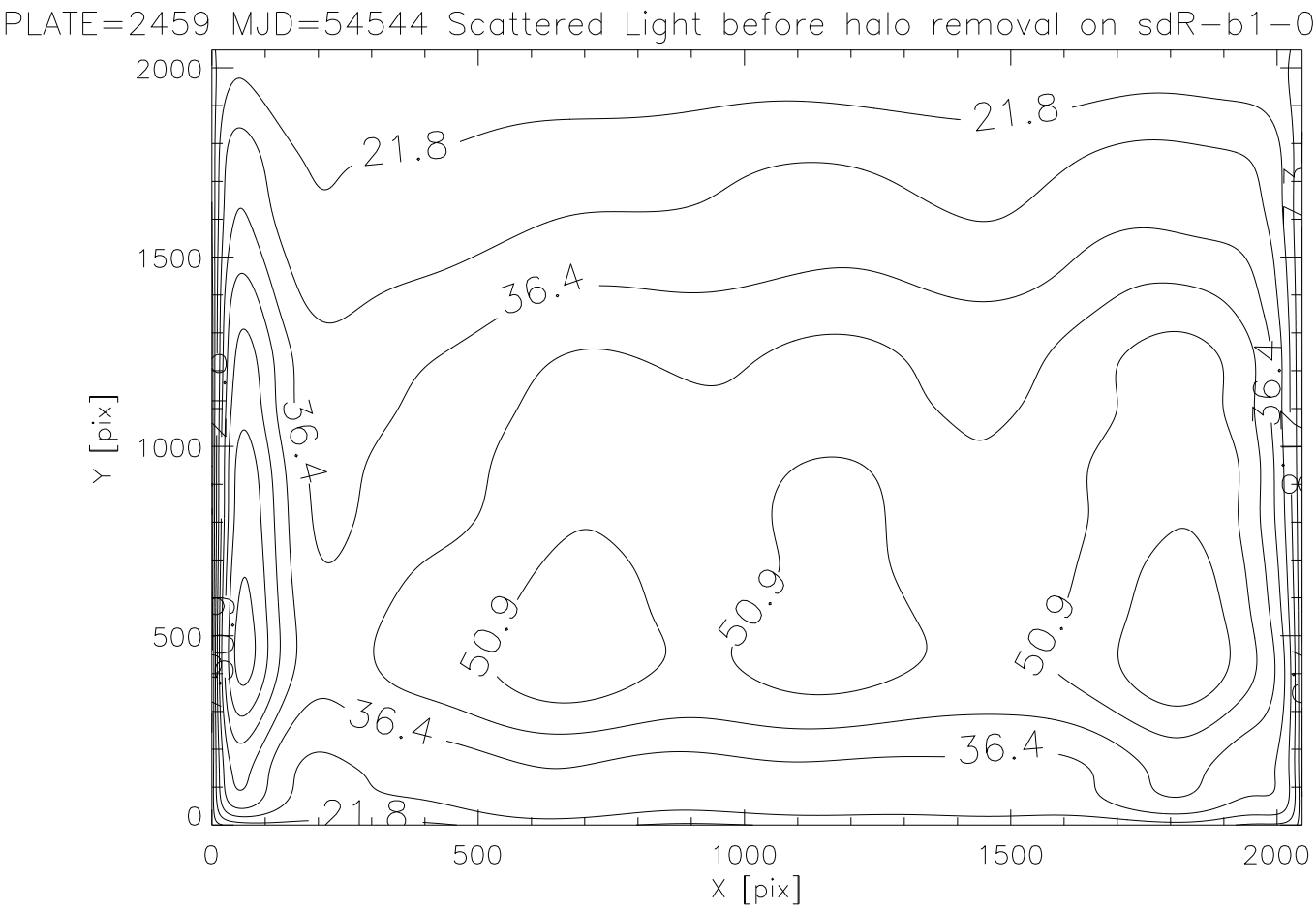

PLATE=2459 MJD=54544 sdR-b1-00051145.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

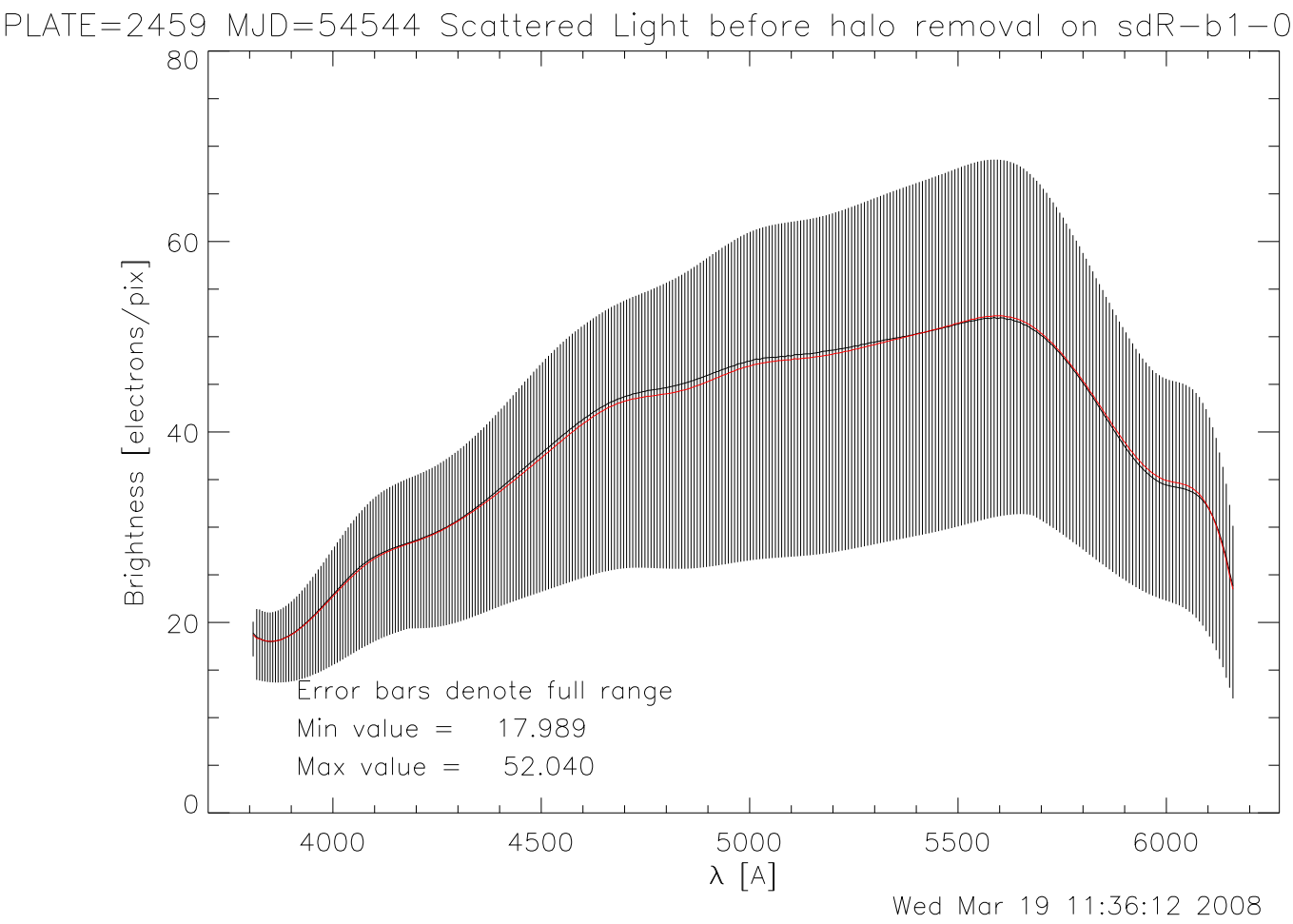

Number of sky fibers = 16
PLATE=2459 MJD=54544 sdR-b1-00051145.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

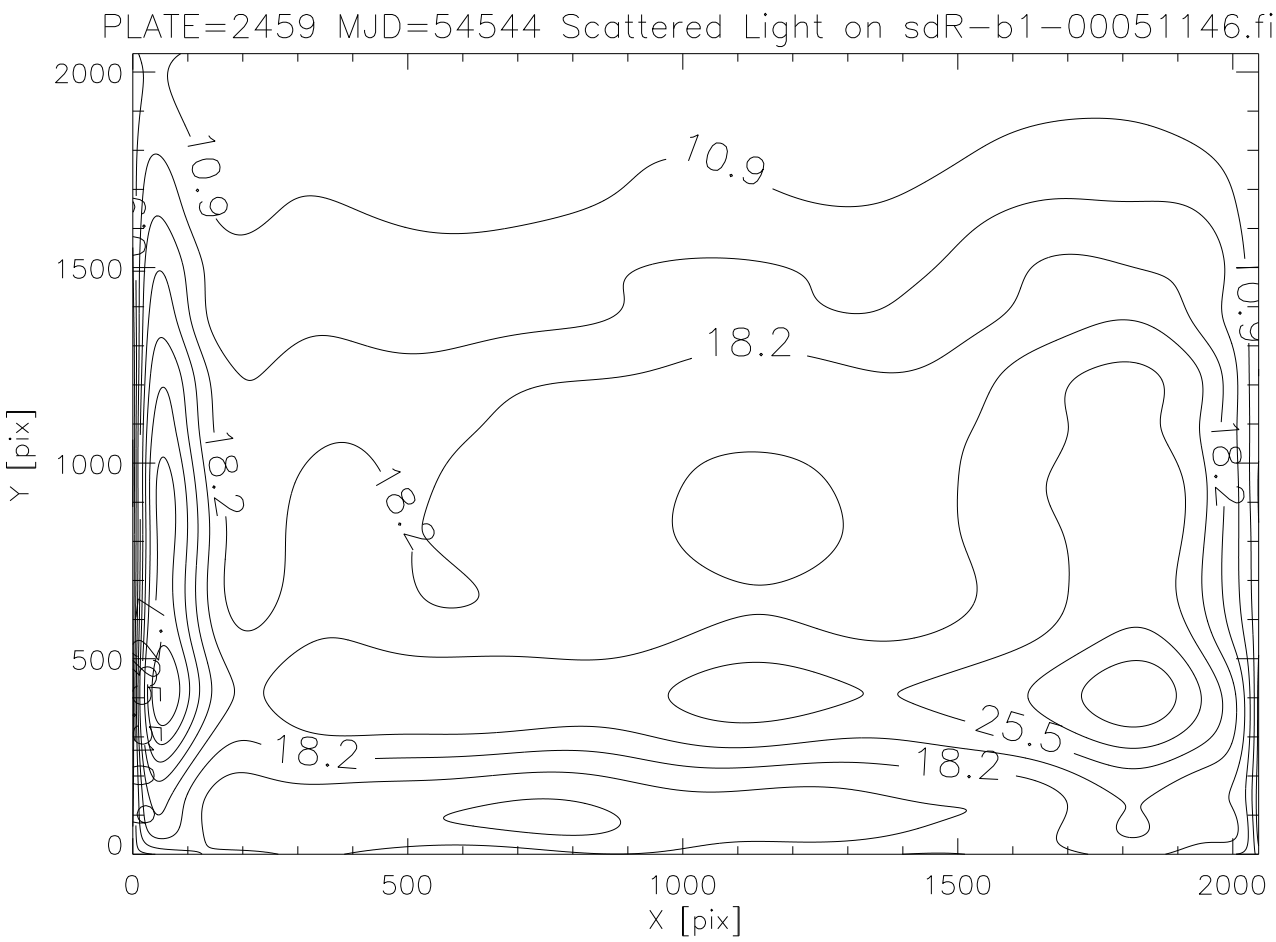

PLATE=2459 MJD=54544 sdR-b1-00051145.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 35.35 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

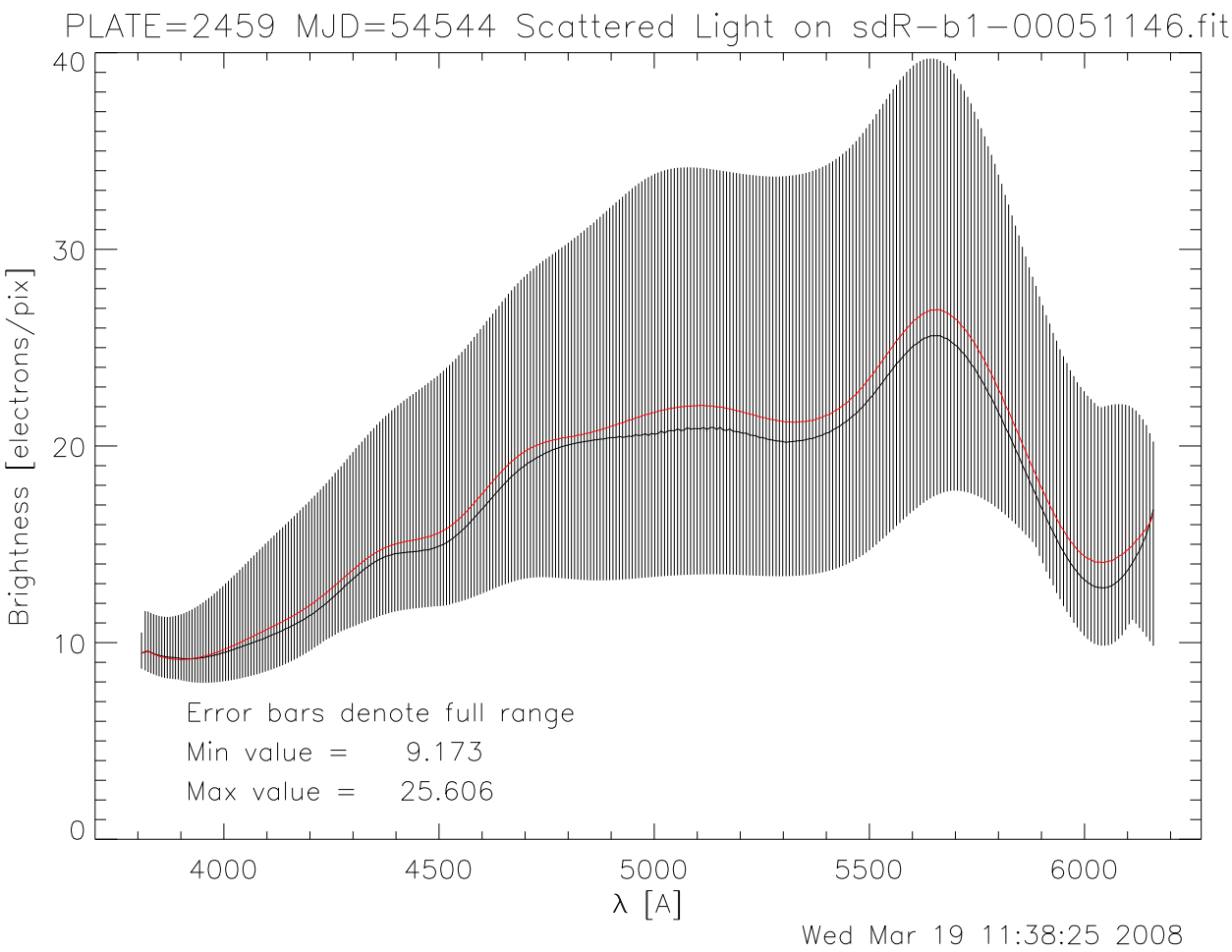

PLATE=2459 MJD=54544 sdR-b1-00051145.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.09 %
Fiber number
Focal Distance [mm]
Airmass

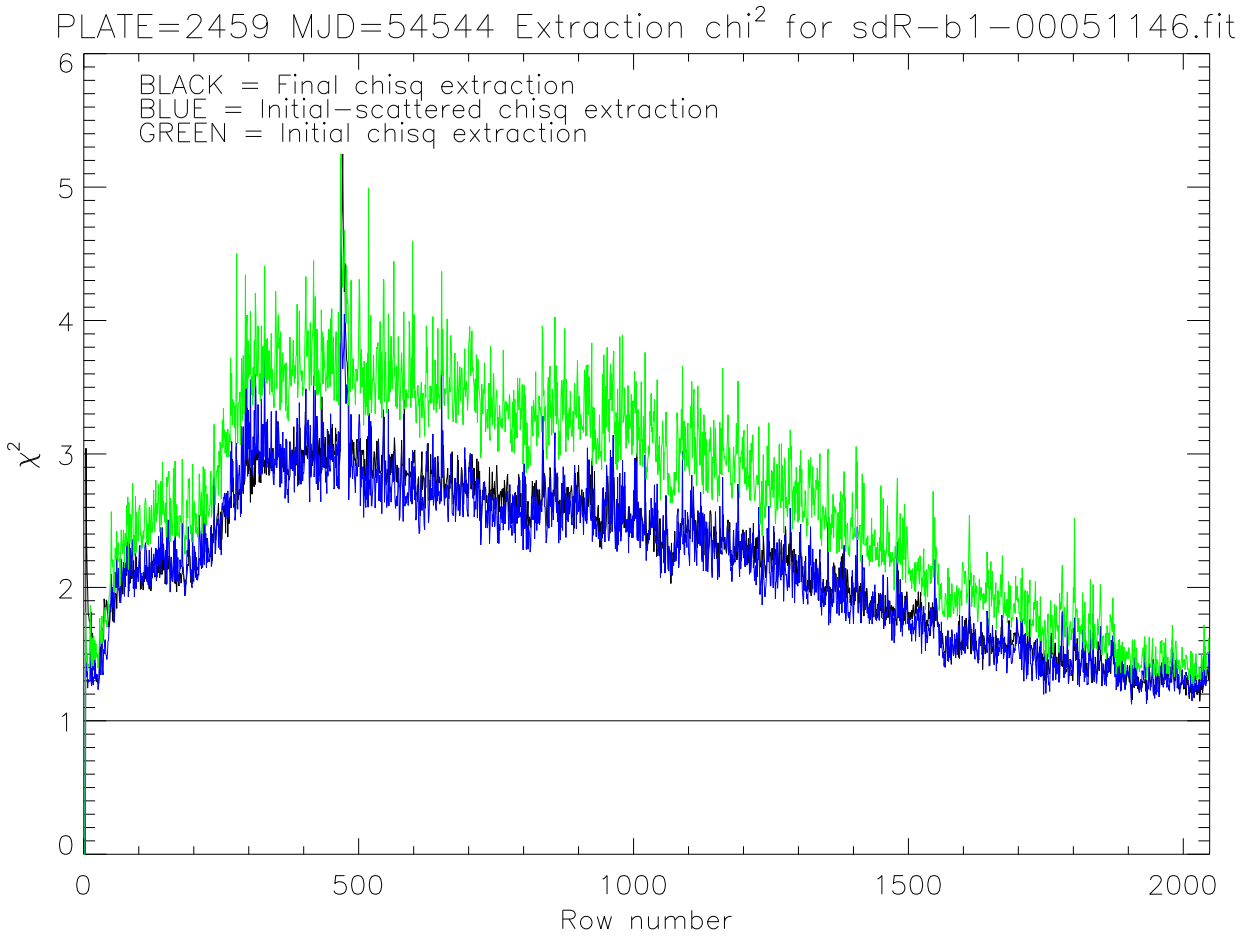

PLATE=2459 MJD=54544 Fiber−Flats for sdR−b1−00051139.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.258
Max value = 1.244
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 19 11:35:25 2008

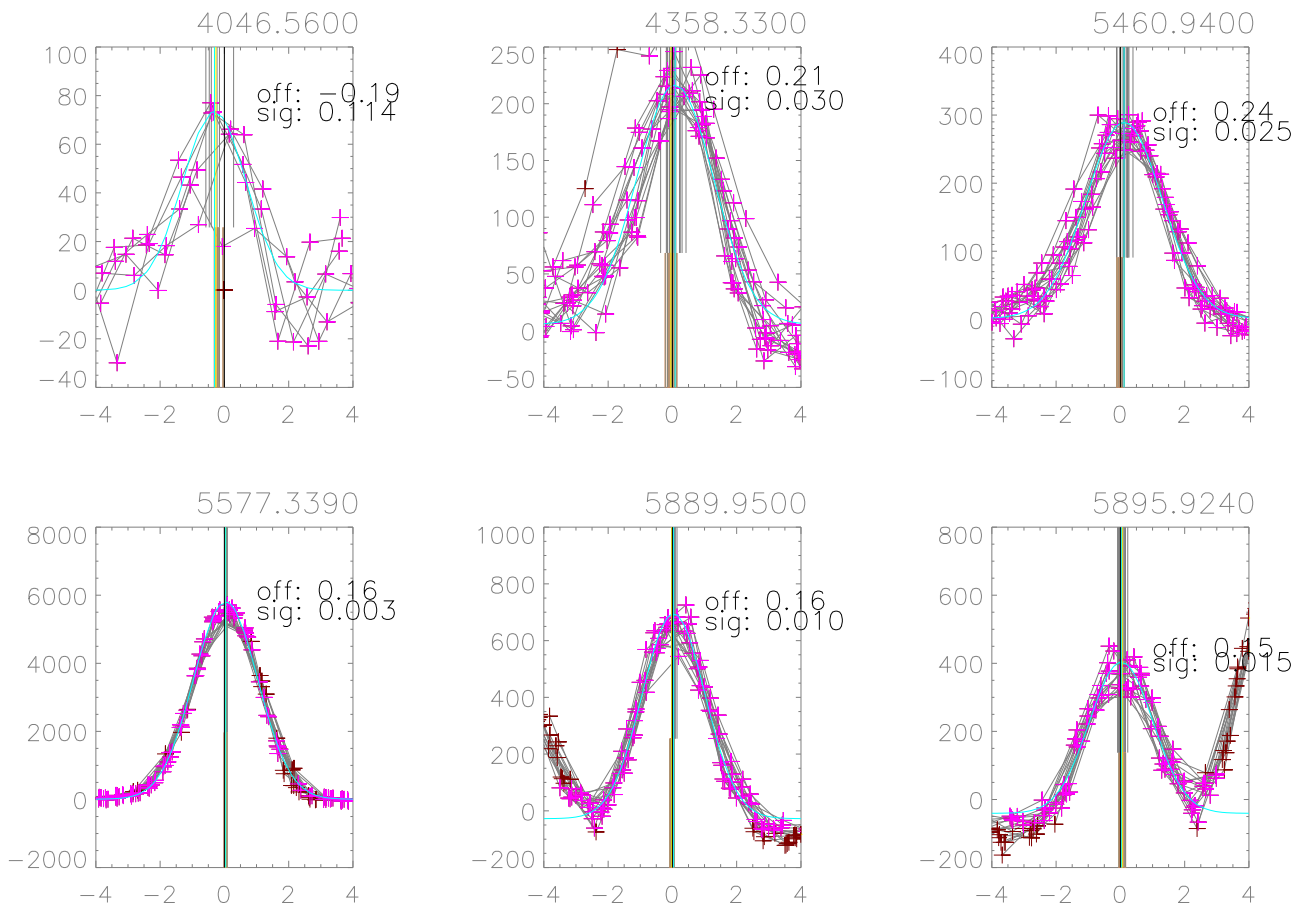

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR−b1−00051146.f
Y [pix]
X [pix]
0
500
1000
1500
2000
21.8
36.4
50.9

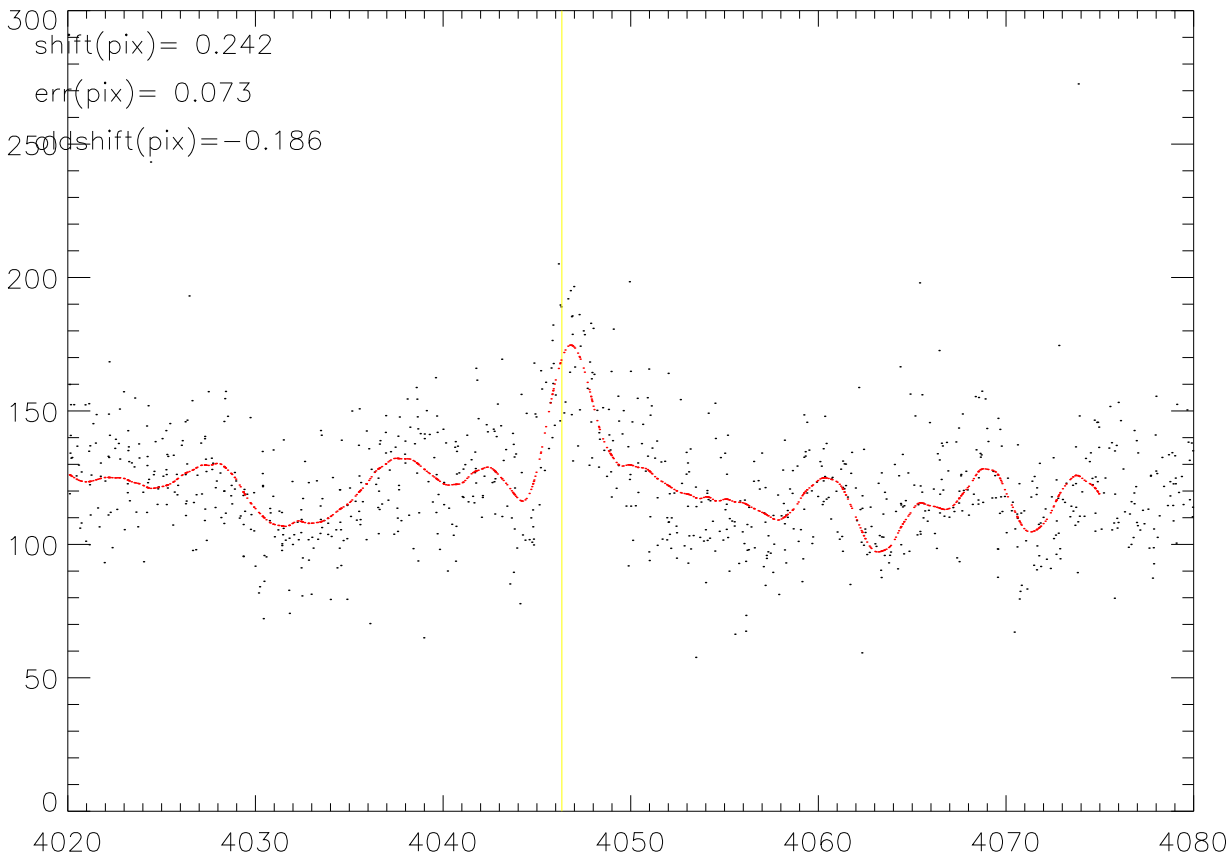

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-b1-00051146.f
Brightness [electrons/pix]
80
60
40
20
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 17.989
Max value = 52.040
Wed Mar 19 11:36:12 2008

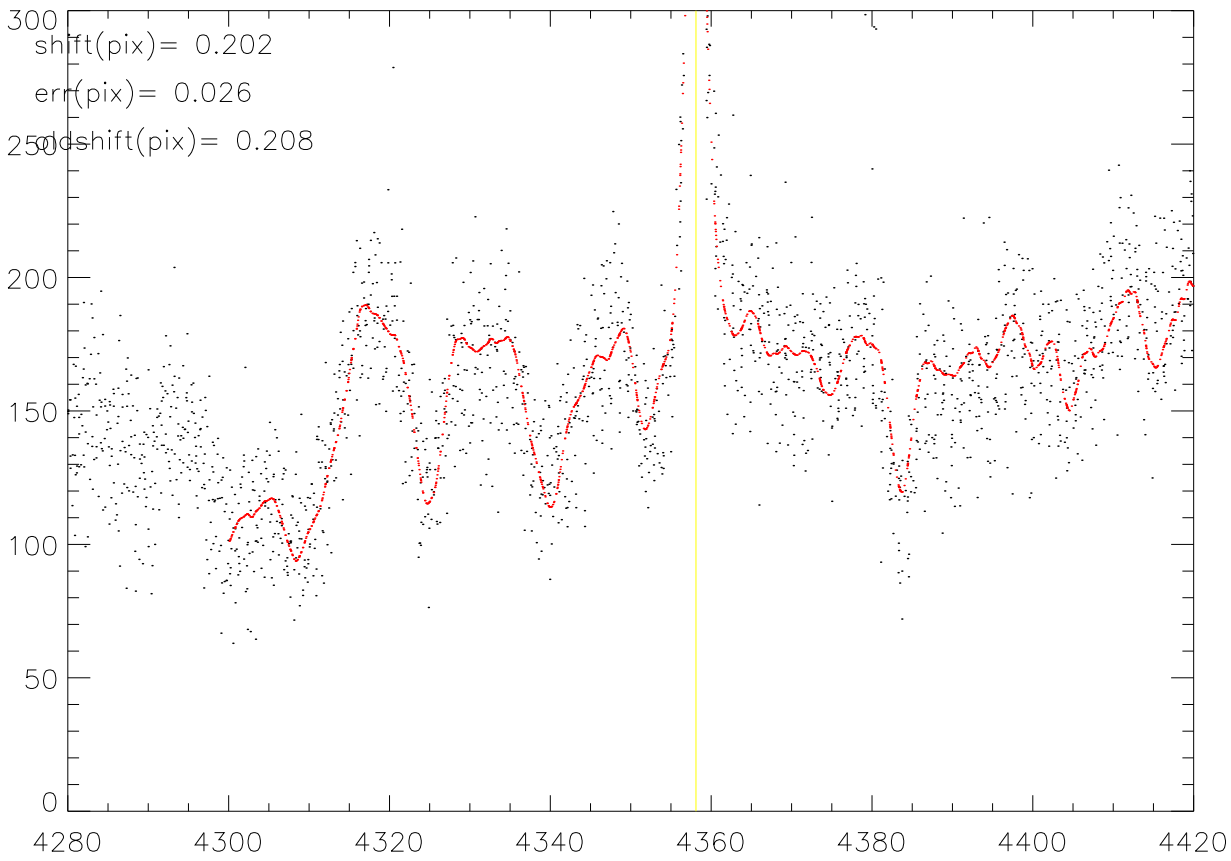

PLATE=2459 MJD=54544 Scattered Light on sdR-b1-00051146.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
10.9
18.2
25.5

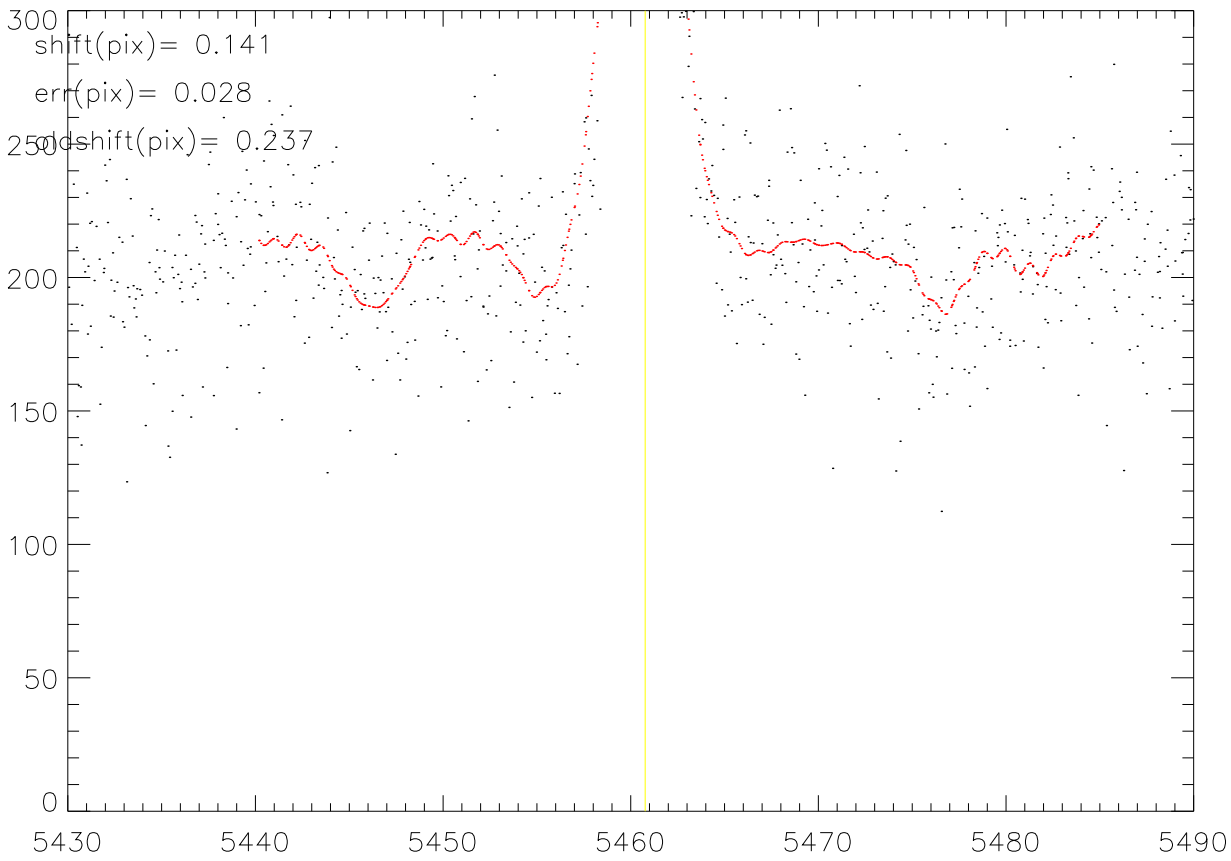

PLATE=2459 MJD=54544 Scattered Light on sdR-b1-00051146.fit
Brightness [electrons/pix]
40
30
20
10
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 9.173
Max value = 25.606
Wed Mar 19 11:38:25 2008

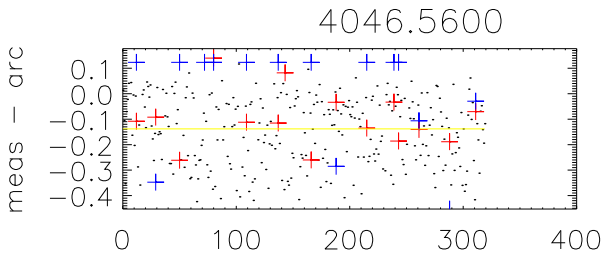

PLATE=2459 MJD=54544 Extraction chi^2 for sdR-b1-00051146.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
6
0
500
1000
1500
2000

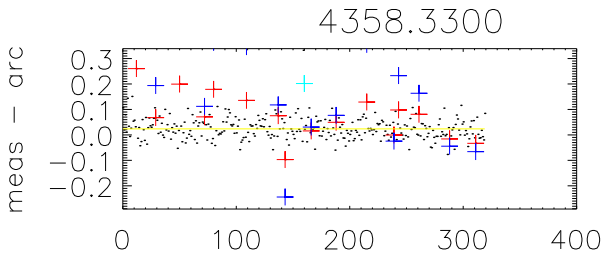

4046.5600
off: −0.19
sig: 0.114
4358.3300
off: 0.21
sig: 0.030
5460.9400
off: 0.24
sig: 0.025
5577.3390
off: 0.16
sig: 0.003
5889.9500
off: 0.16
sig: 0.010
5895.9240
off: 0.15
sig: 0.015

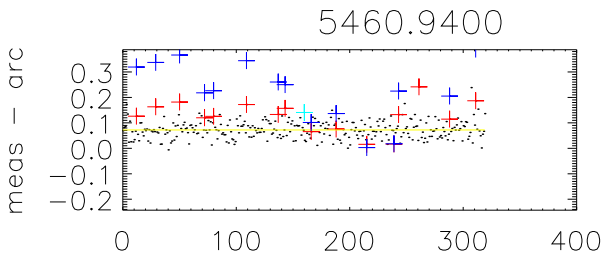

shift(pix)= 0.242
err(pix)= 0.073
oldshift(pix)=-0.186
300
250
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

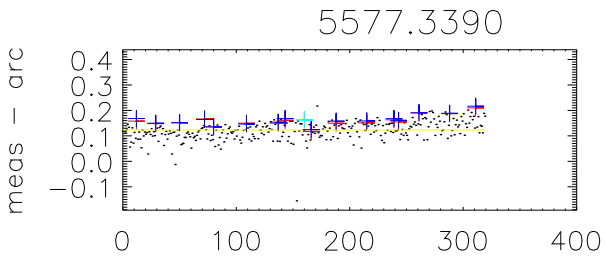

shift(pix)= 0.202
err(pix)= 0.026
oldshift(pix)= 0.208
300
250
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

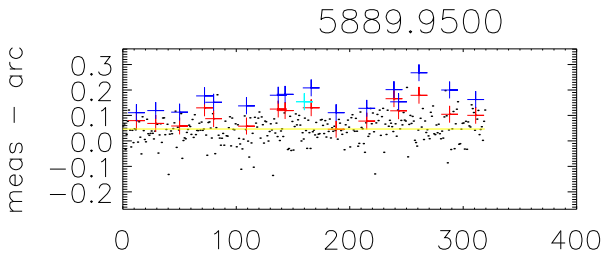

shift(pix)= 0.141
err(pix)= 0.028
oldshift(pix)= 0.237
300
250
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

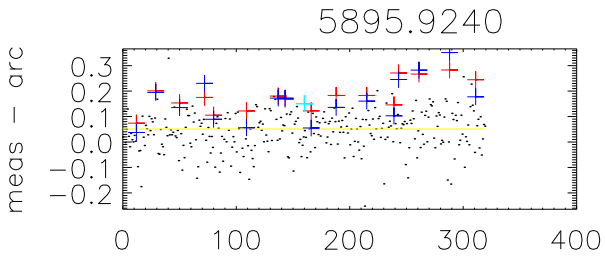

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

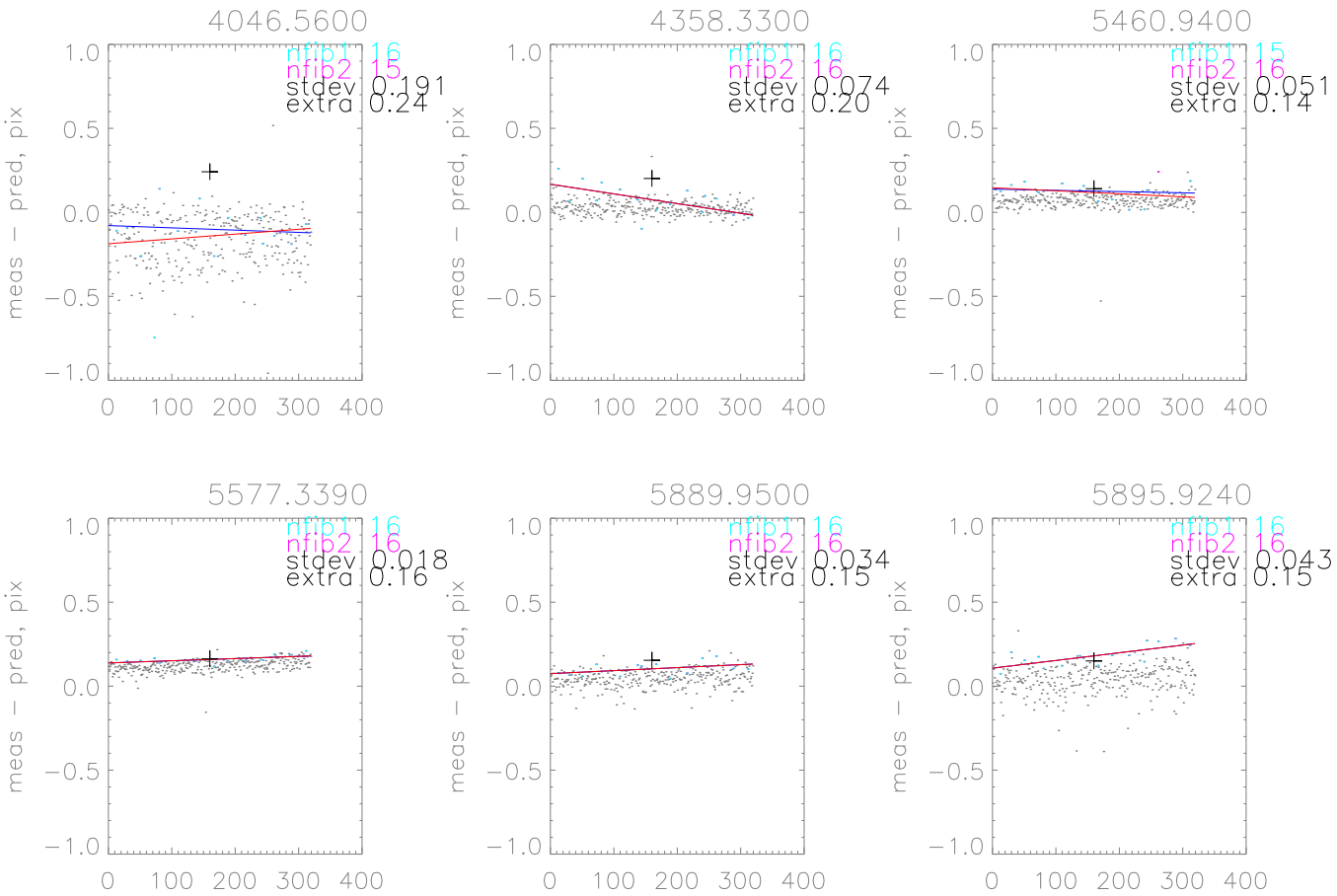

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

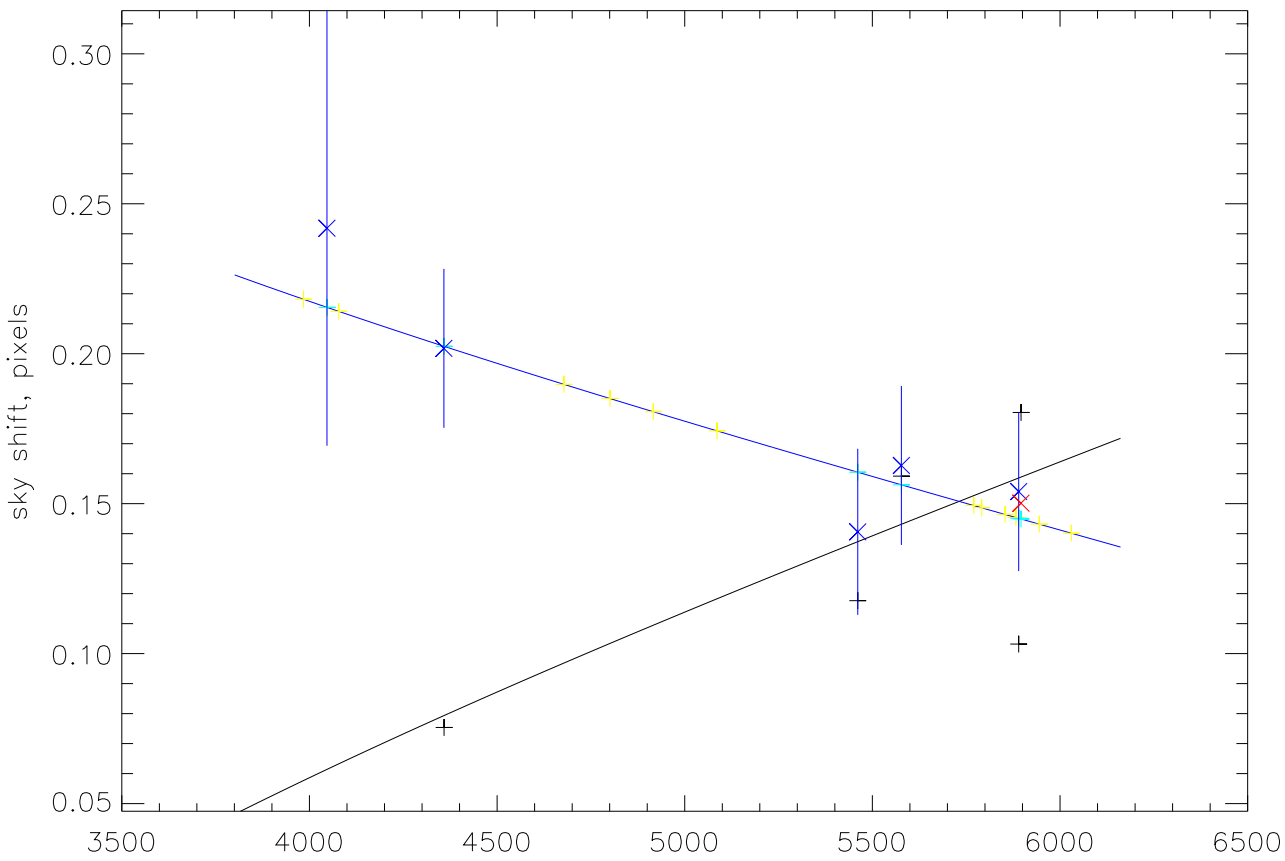

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

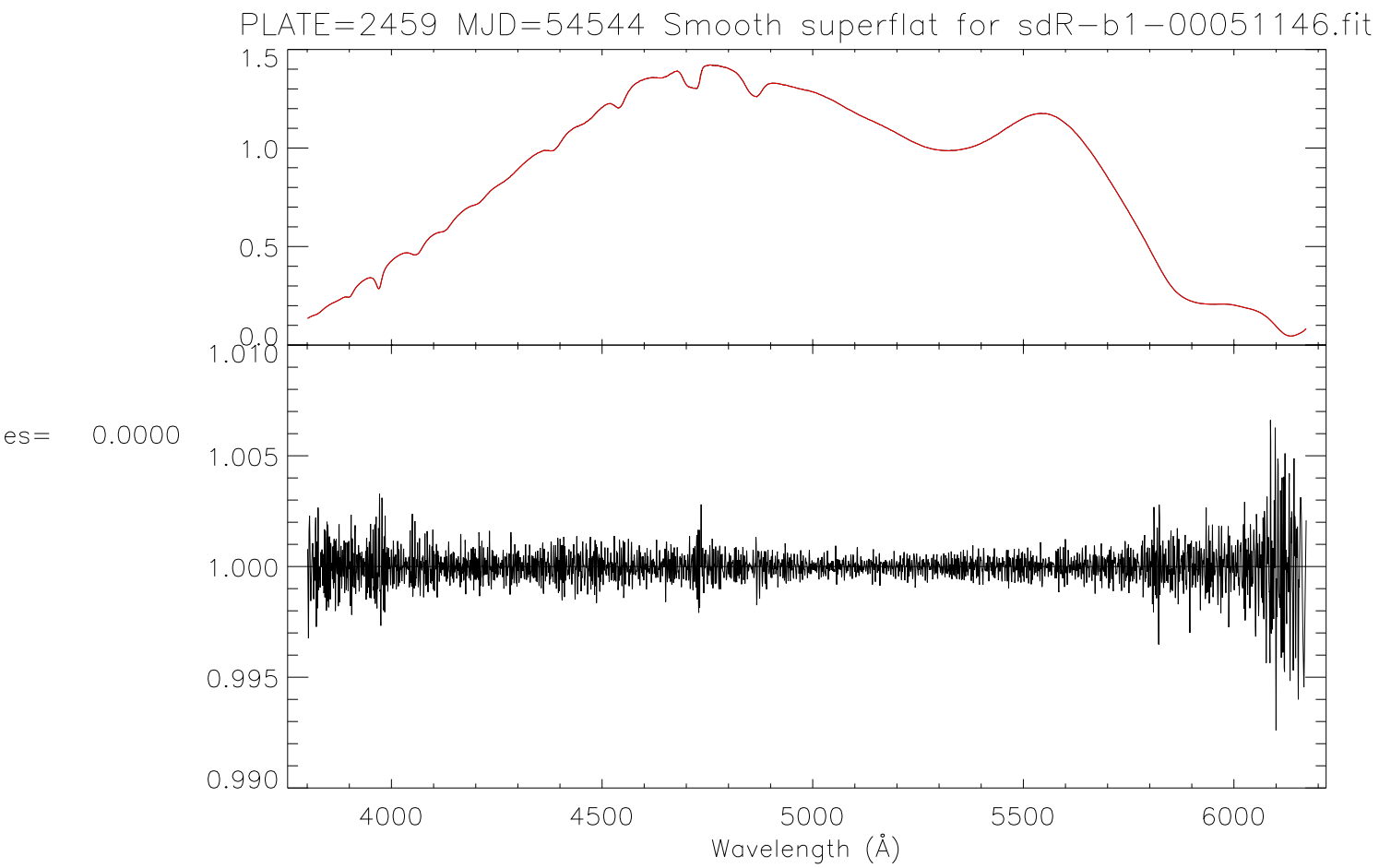

5577.3390
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

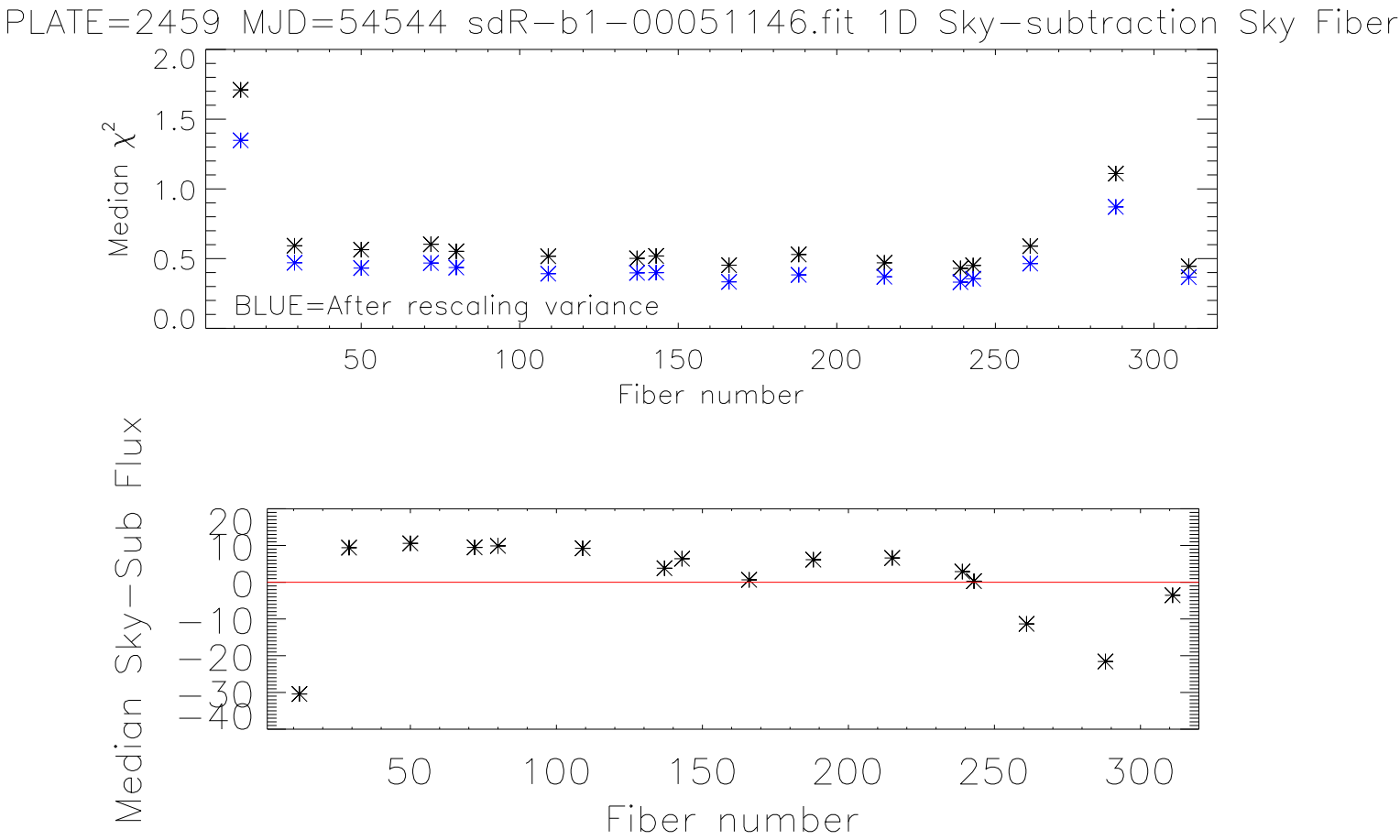

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

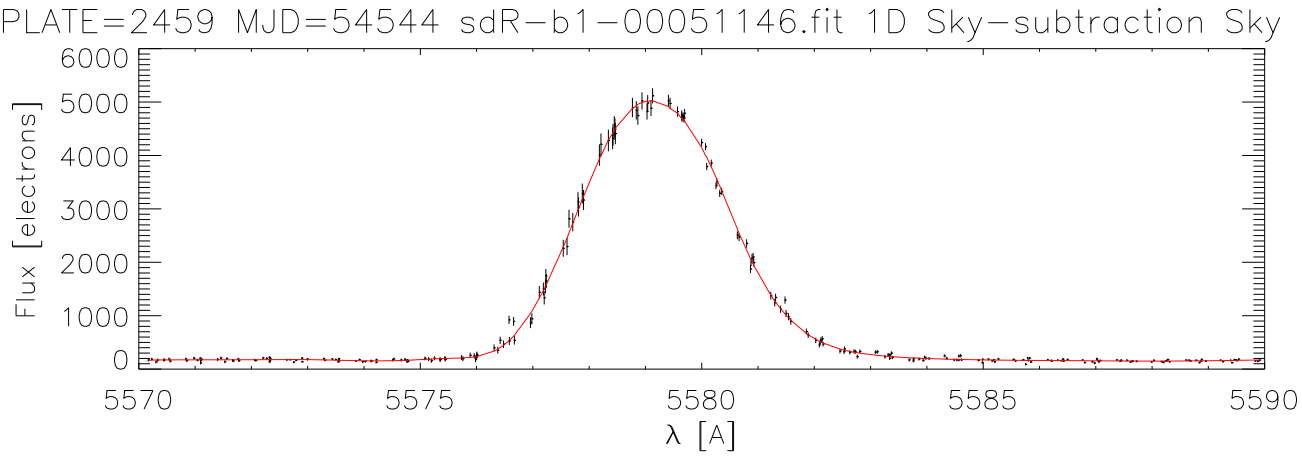

4046.5600
nfib1 16
nfib2 15
stdev 0.191
extra 0.24
4358.3300
nfib1 16
nfib2 16
stdev 0.074
extra 0.20
5460.9400
nfib1 15
nfib2 16
stdev 0.051
extra 0.14
5577.3390
nfib1 16
nfib2 16
stdev 0.018
extra 0.16
5889.9500
nfib1 16
nfib2 16
stdev 0.034
extra 0.15
5895.9240
nfib1 16
nfib2 16
stdev 0.043
extra 0.15
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

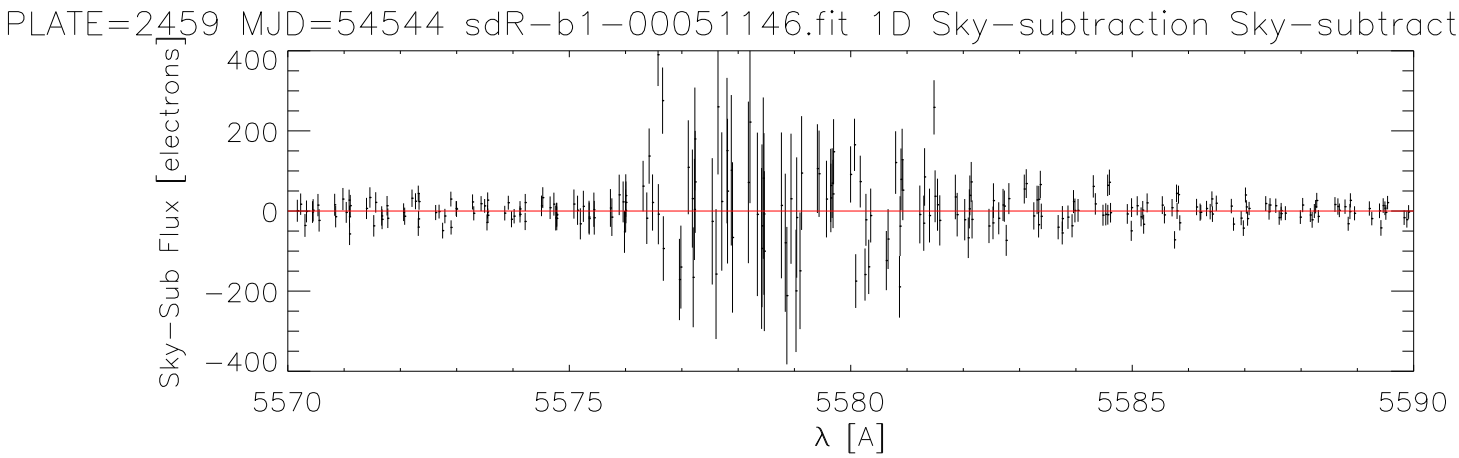

sky shift, pixels
0.30
0.25
0.20
0.15
0.10
0.05
3500
4000
4500
5000
5500
6000
6500

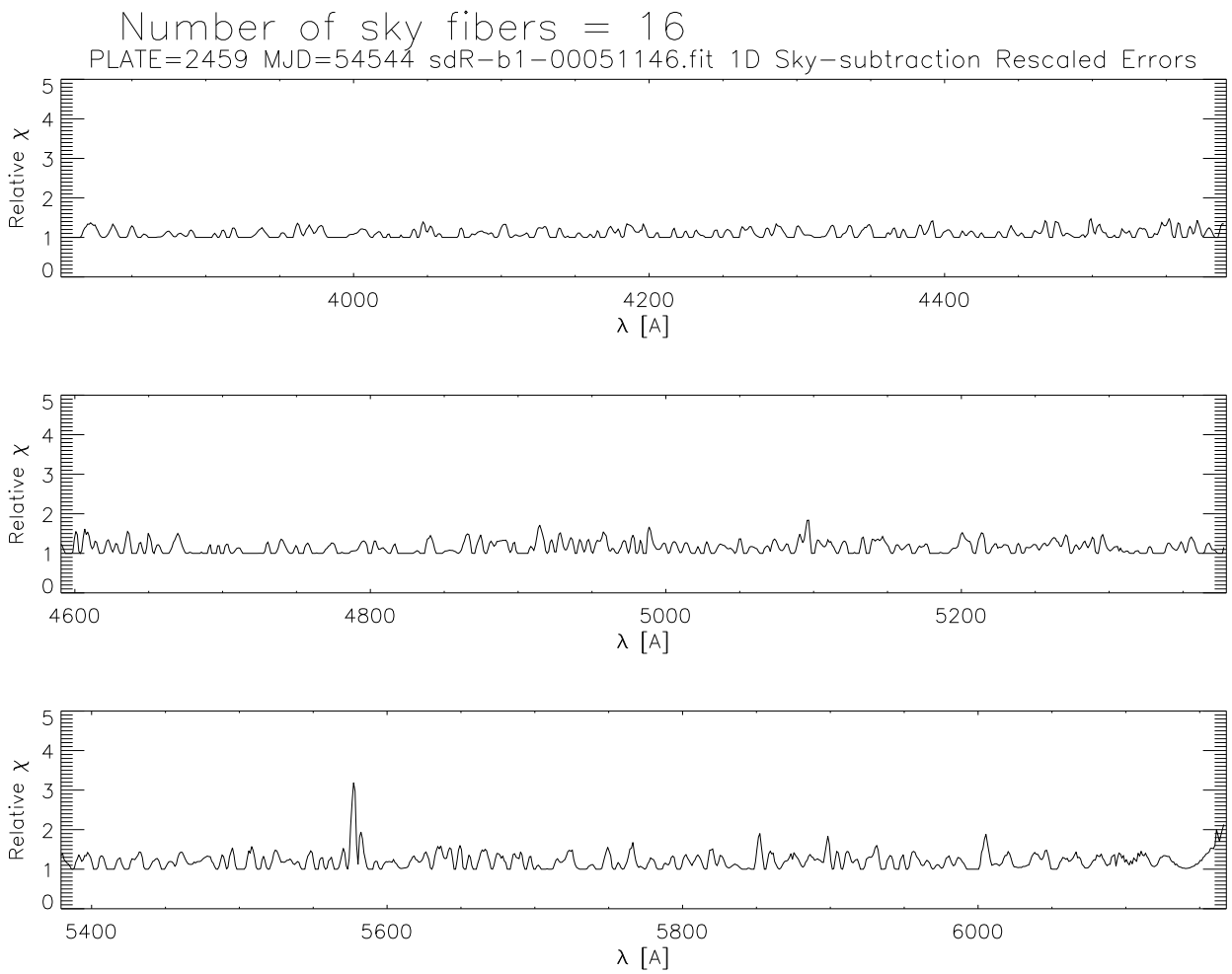

PLATE=2459 MJD=54544 Smooth superflat for sdR-b1-00051146.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

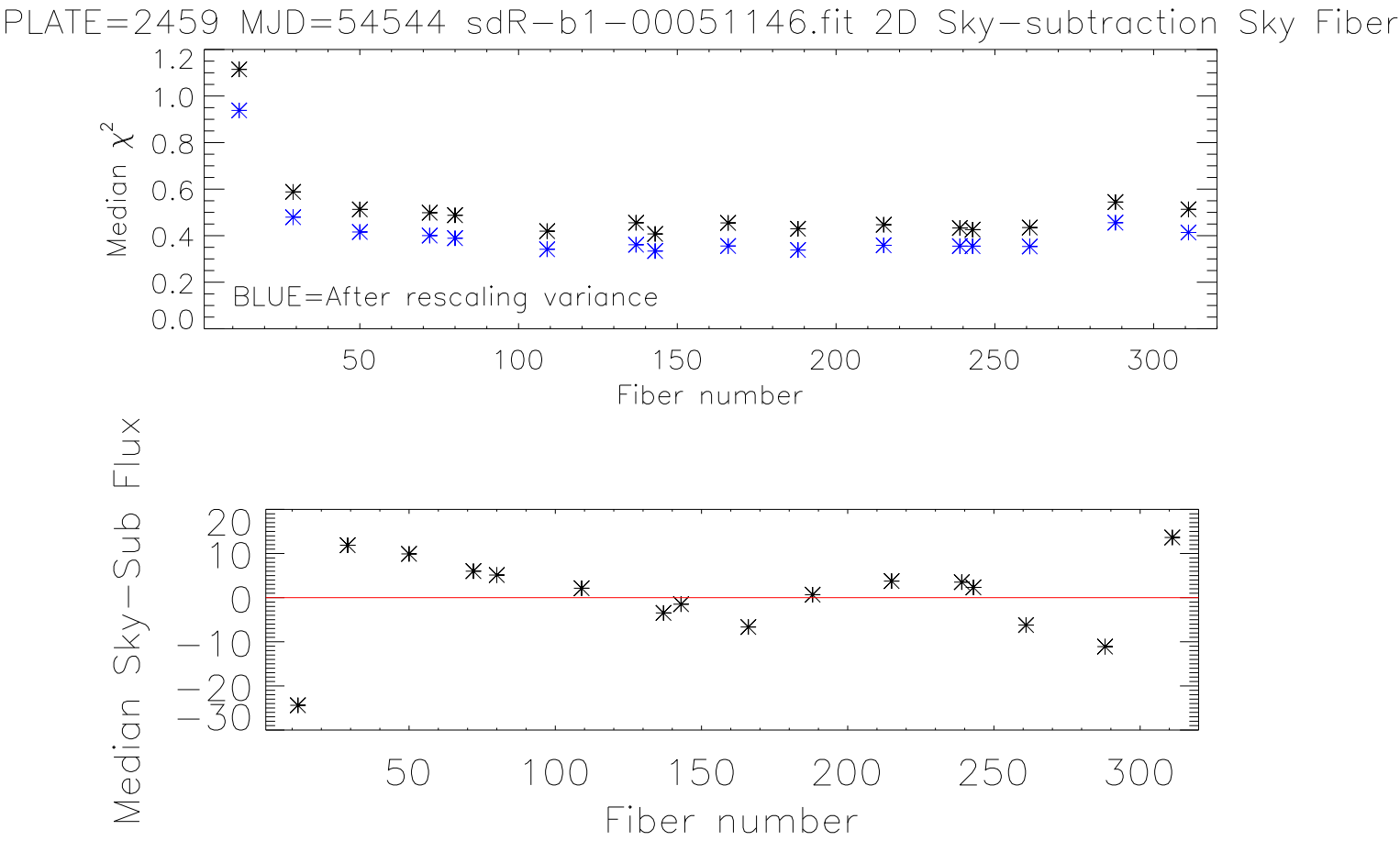
es= 0.0000

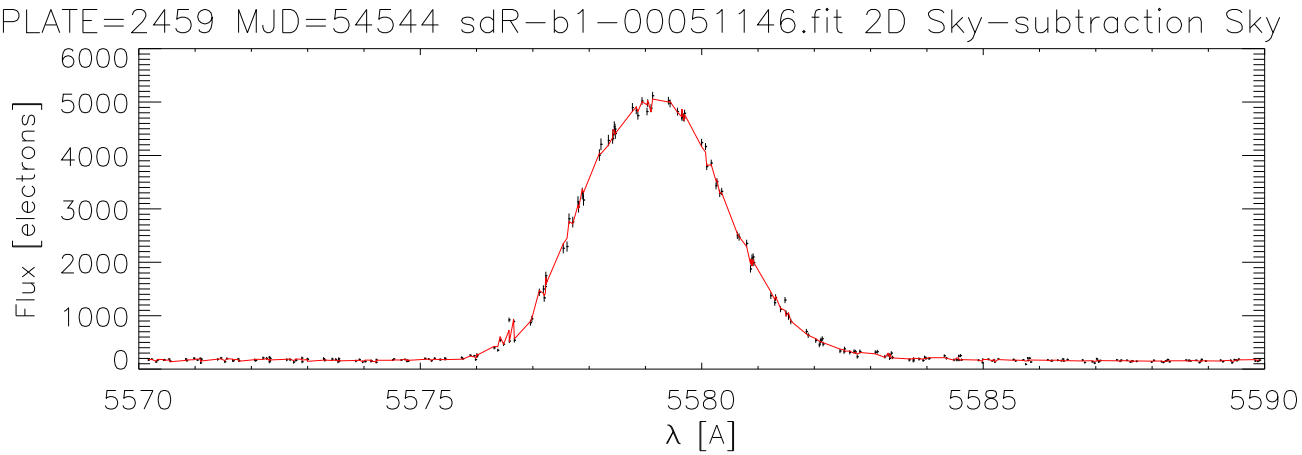

PLATE=2459 MJD=54544 sdR-b1-00051146.fit 1D Sky-subtraction Sky Fiber
Median χ^2
2.0
1.5
1.0
0.5
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
10
0
-10
-20
-30
-40
50
100
150
200
250
300
Fiber number

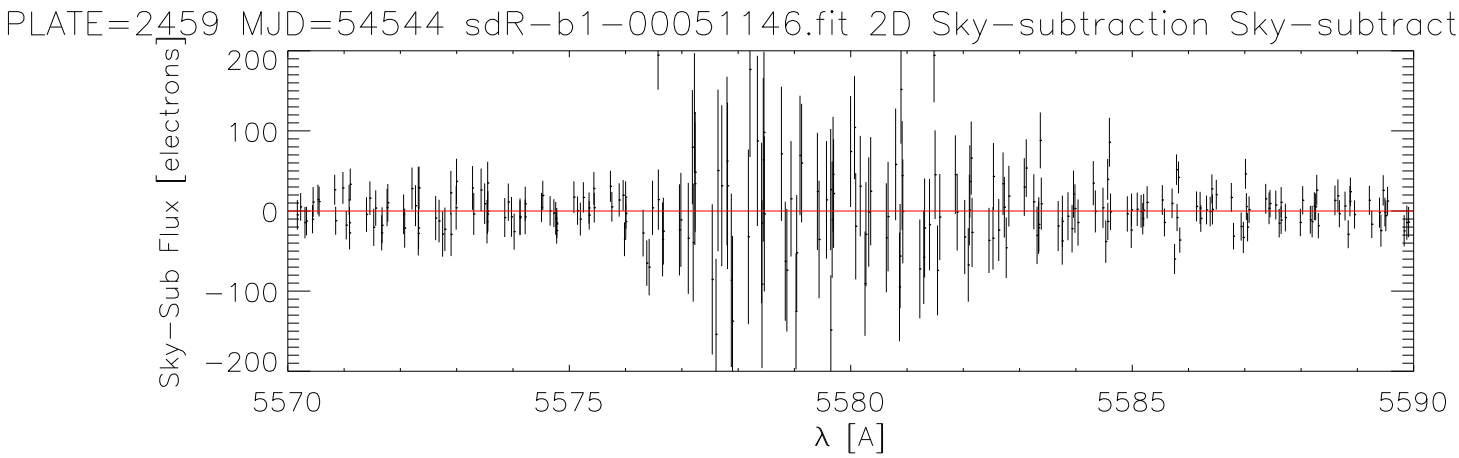

PLATE=2459 MJD=54544 sdR-b1-00051146.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

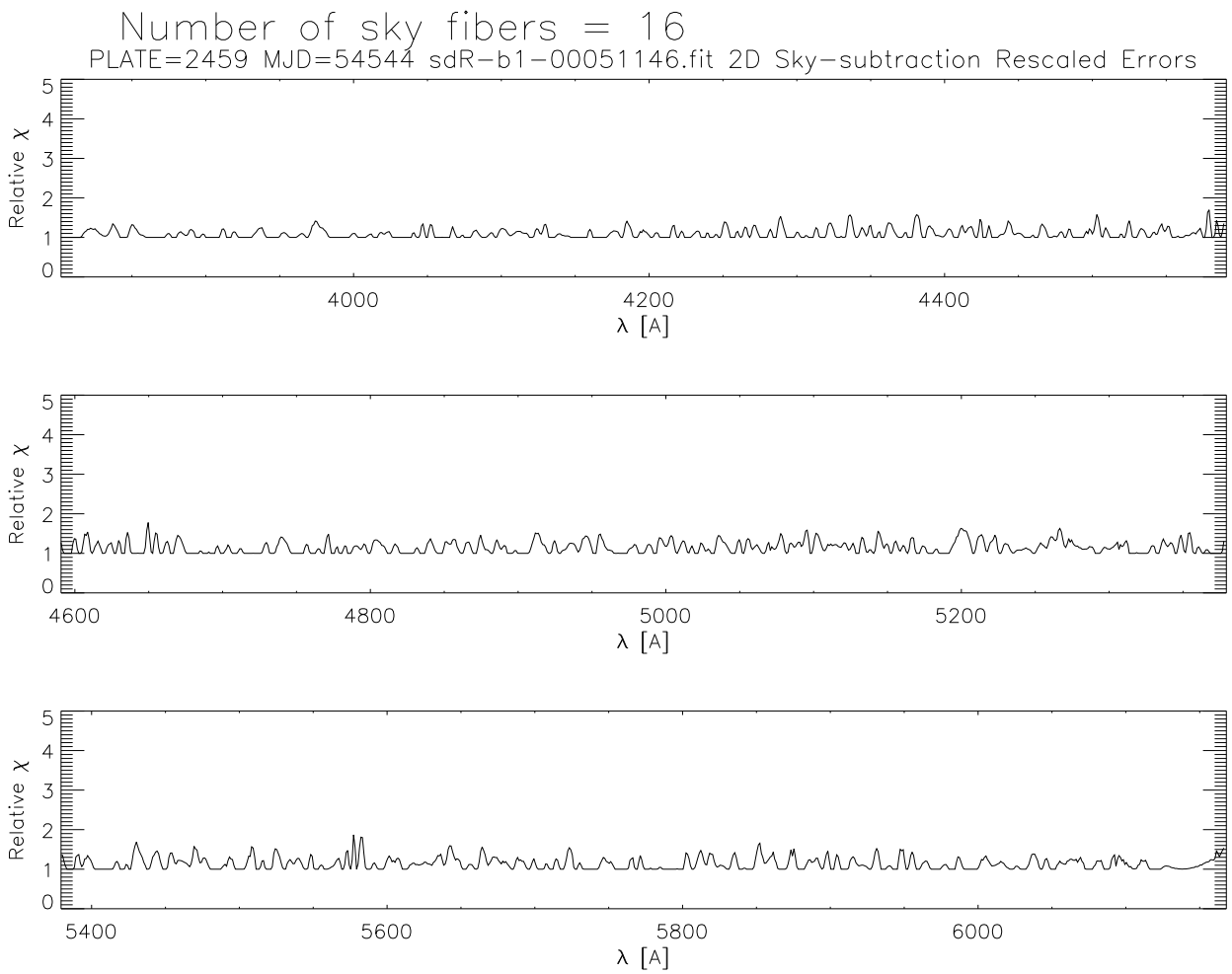

PLATE=2459 MJD=54544 sdR-b1-00051146.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

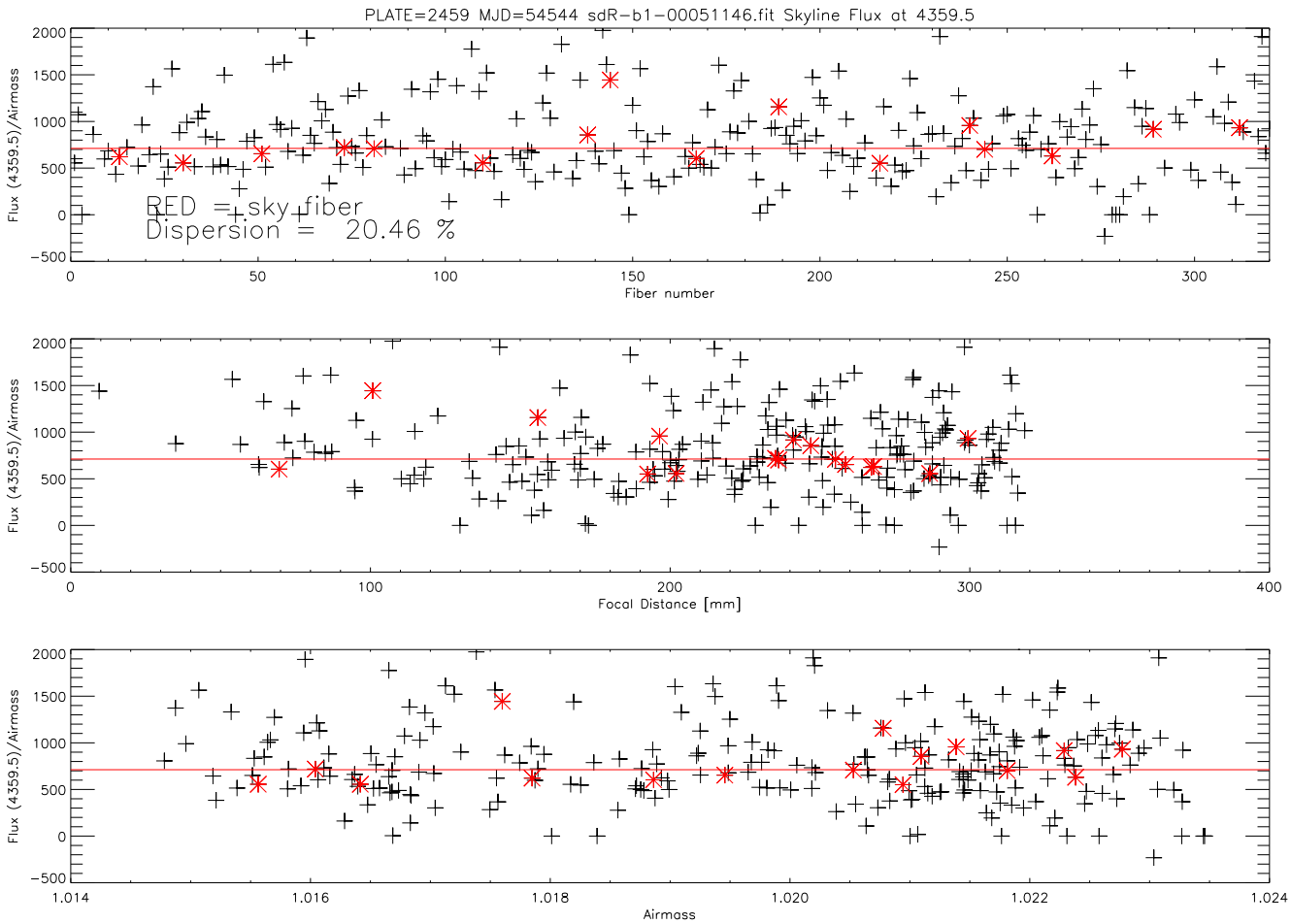

Number of sky fibers = 16
PLATE=2459 MJD=54544 sdR-b1-00051146.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

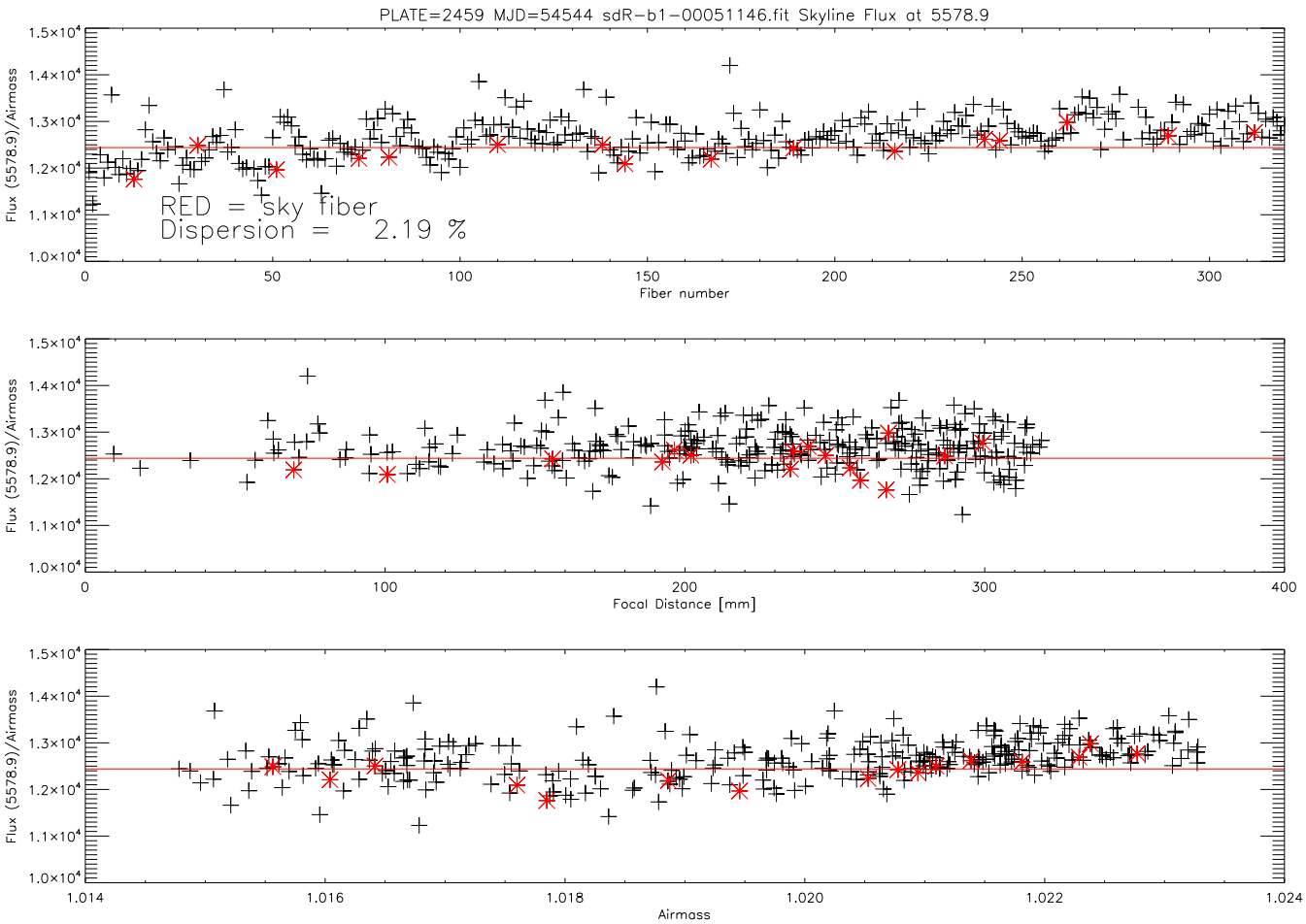

PLATE=2459 MJD=54544 sdR-b1-00051146.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

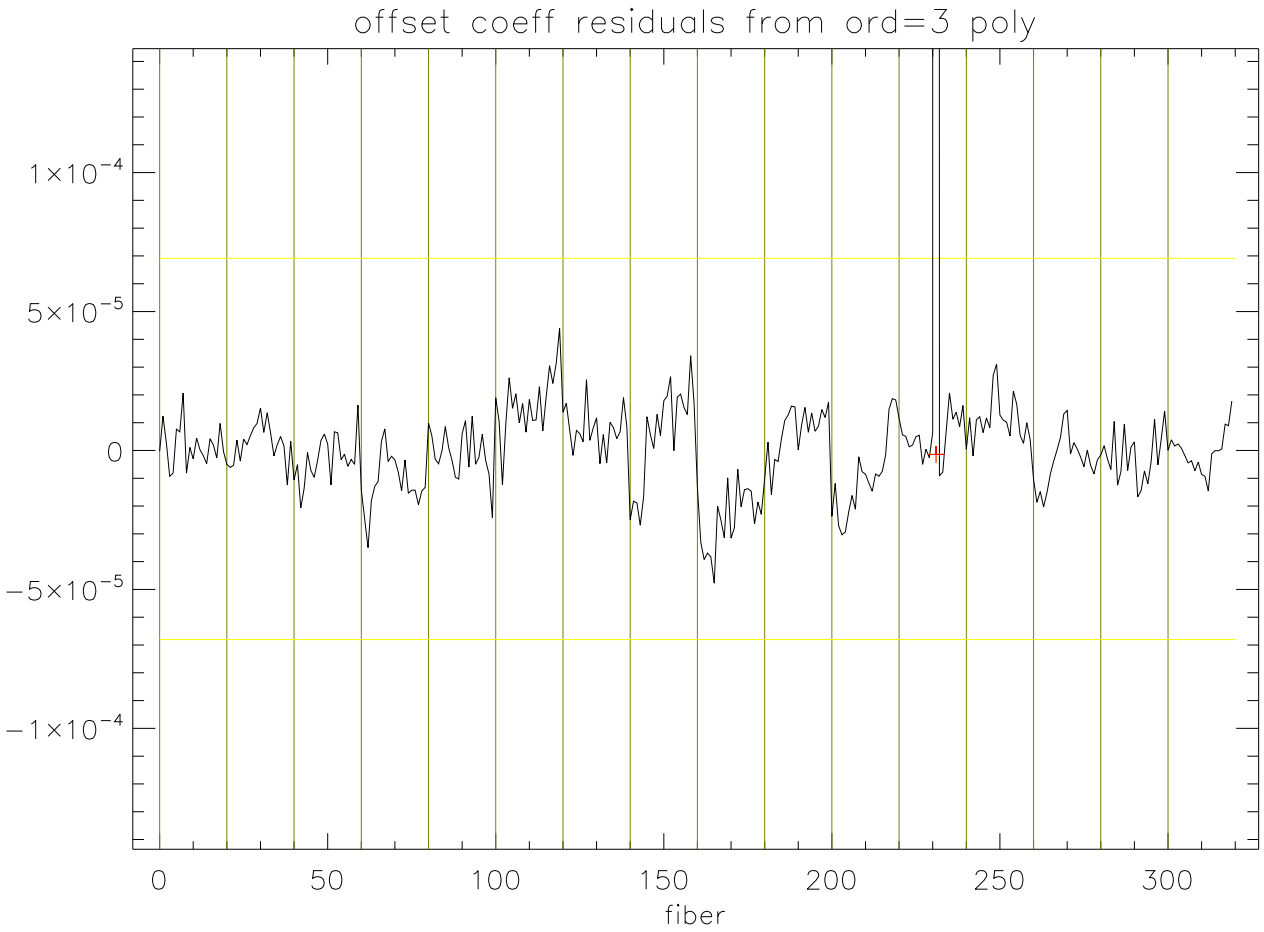

PLATE=2459 MJD=54544 sdR-b1-00051146.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

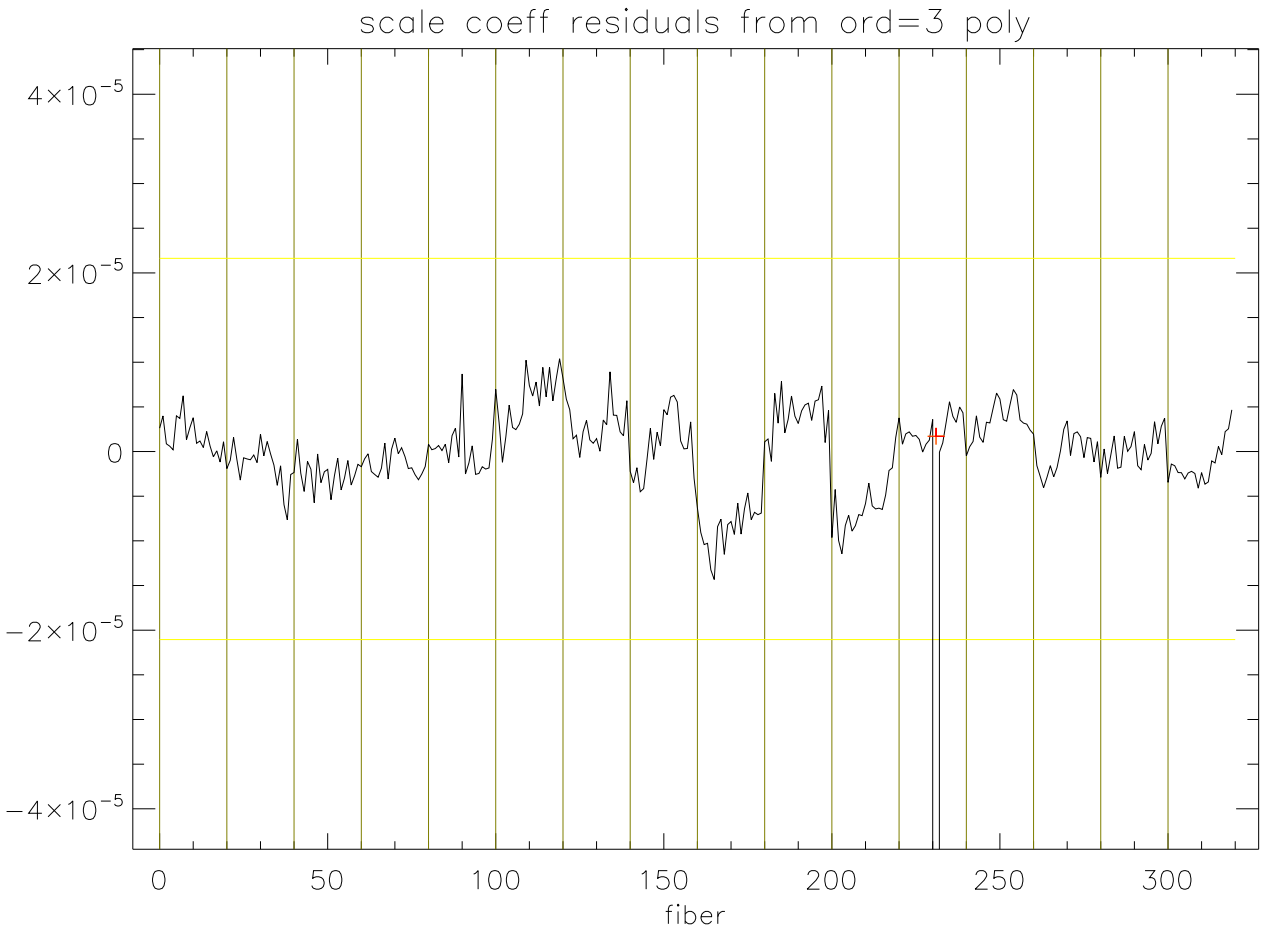

PLATE=2459 MJD=54544 sdR-b1-00051146.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

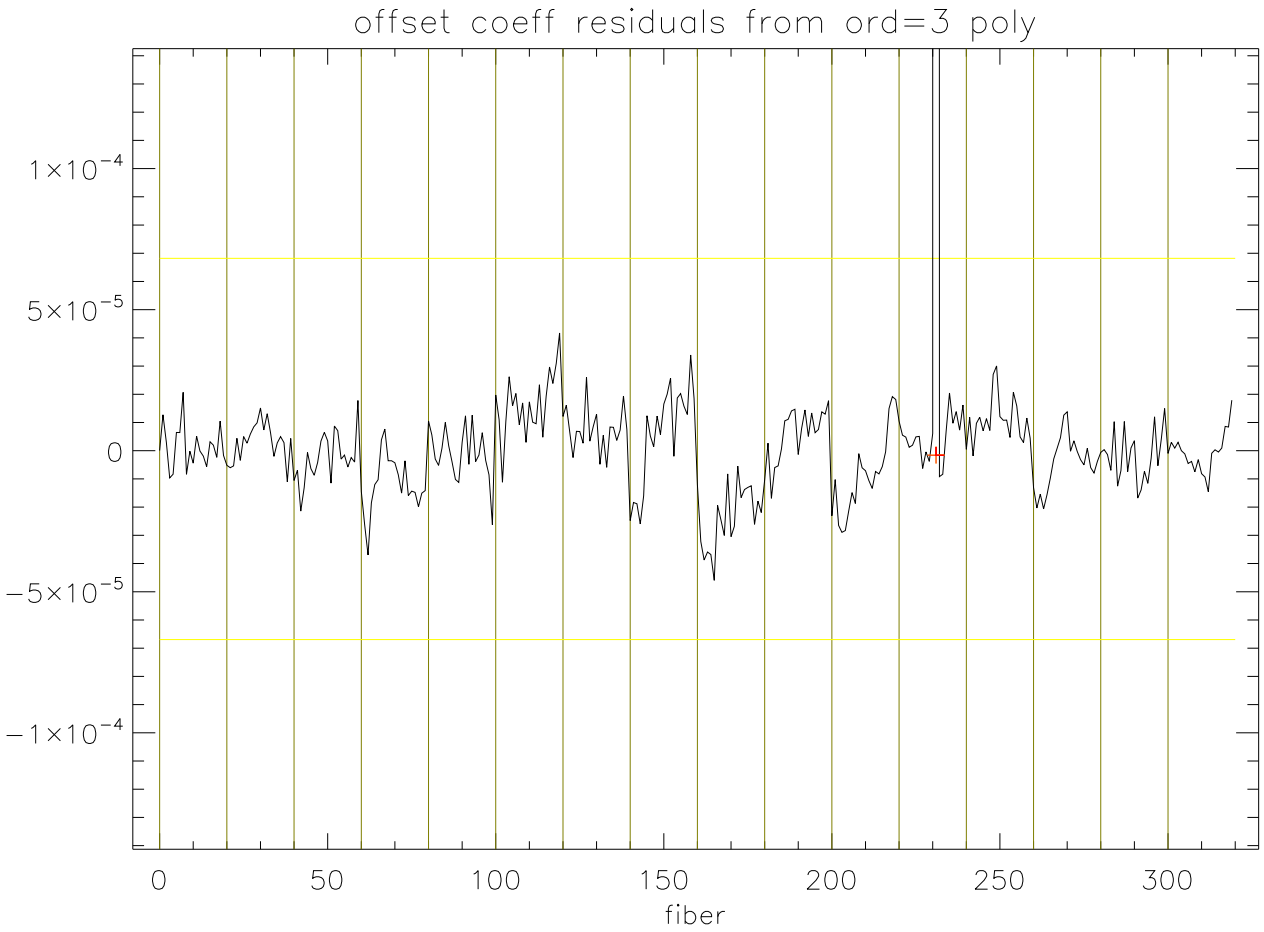

Number of sky fibers = 16
PLATE=2459 MJD=54544 sdR-b1-00051146.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

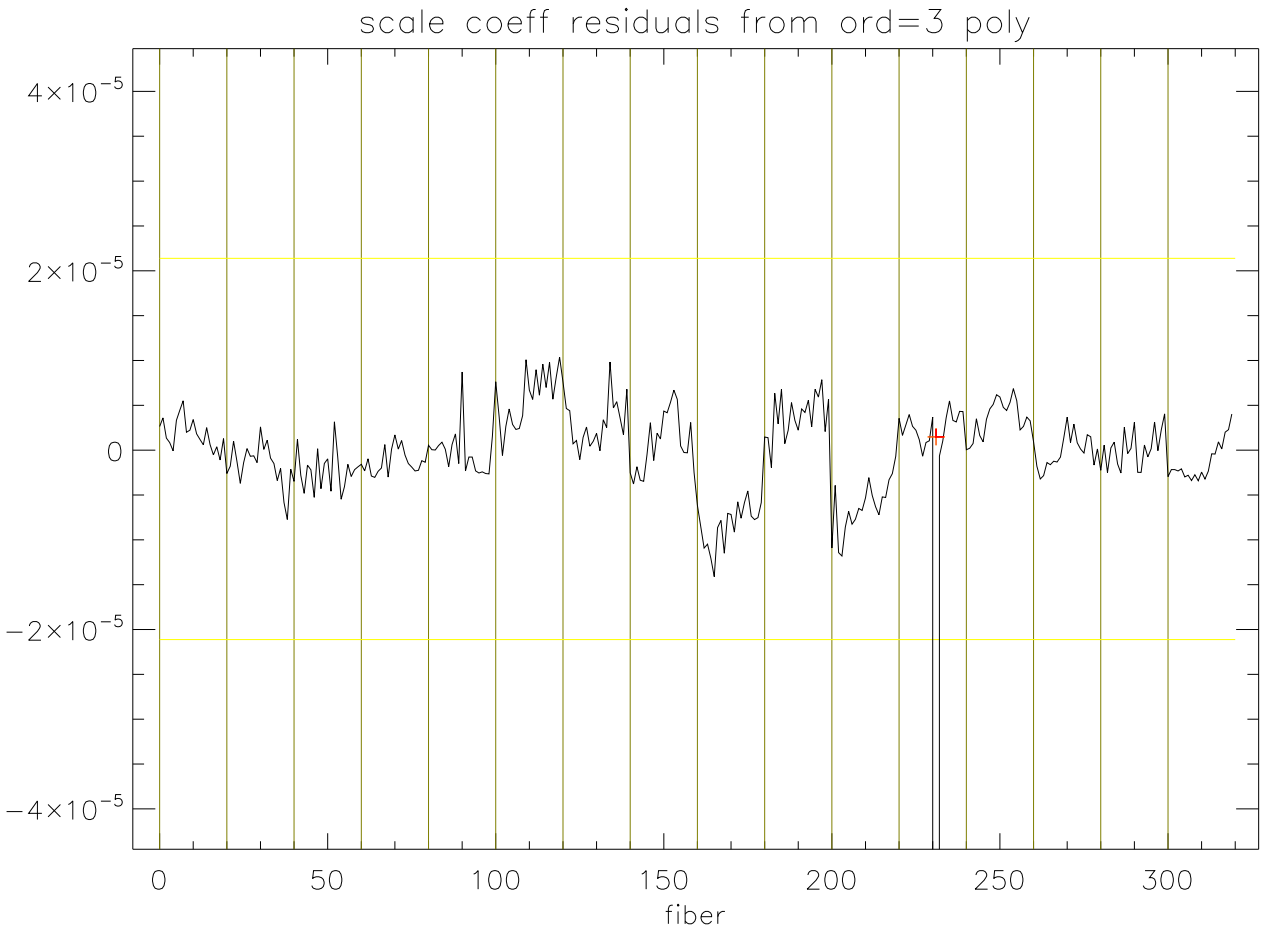

PLATE=2459 MJD=54544 sdR-b1-00051146.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 20.46 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

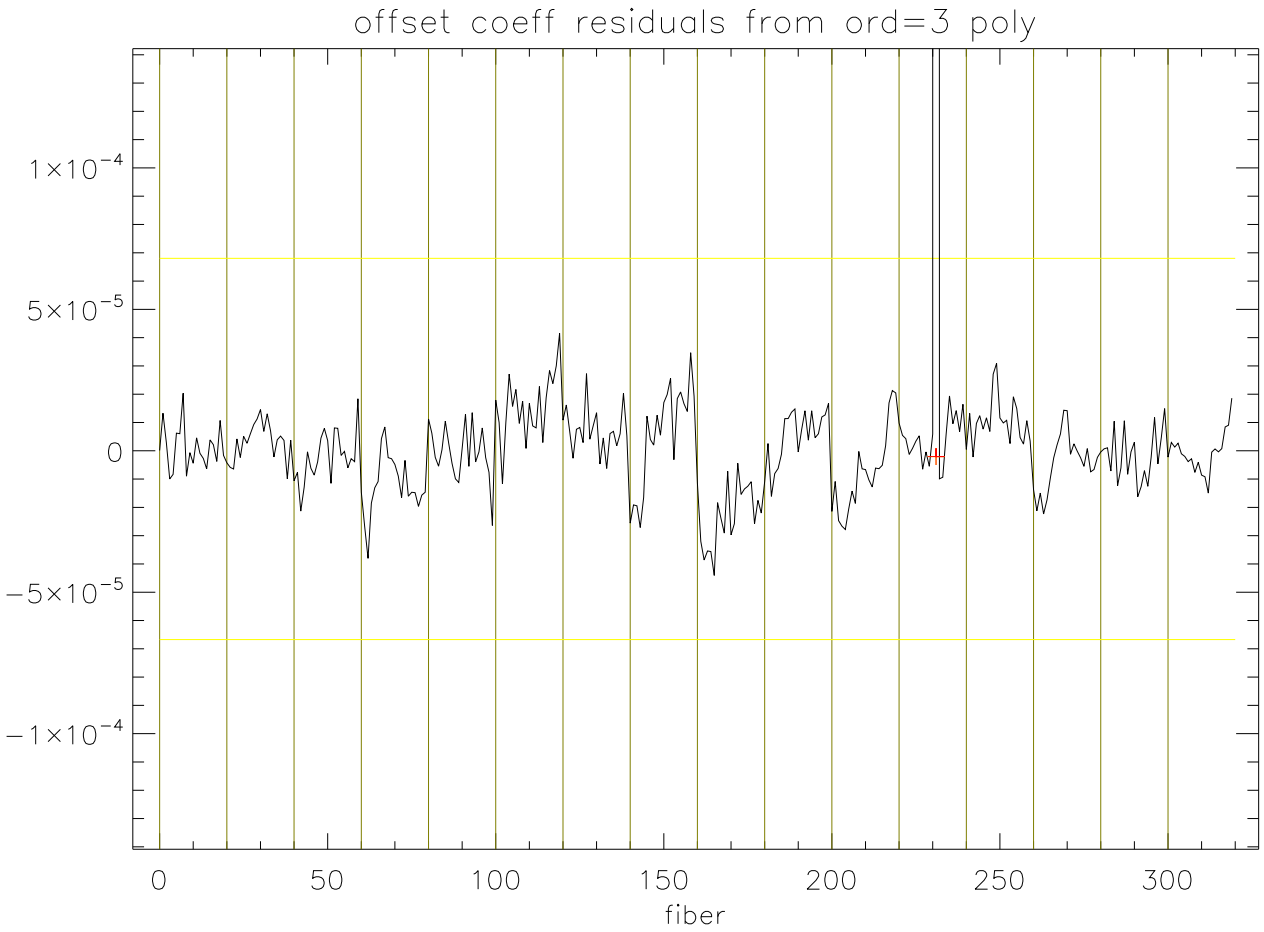

PLATE=2459 MJD=54544 sdR-b1-00051146.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.19 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

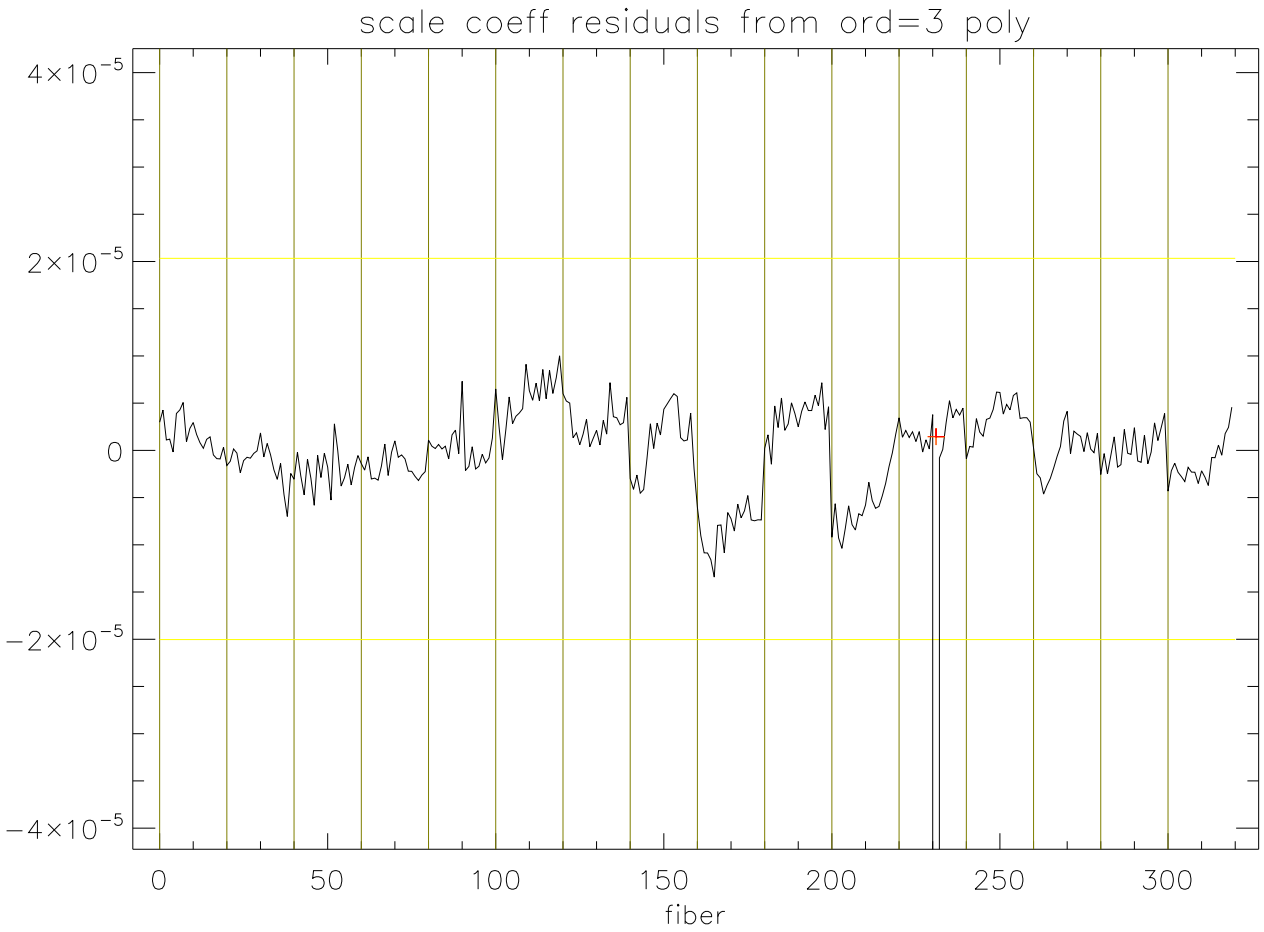

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

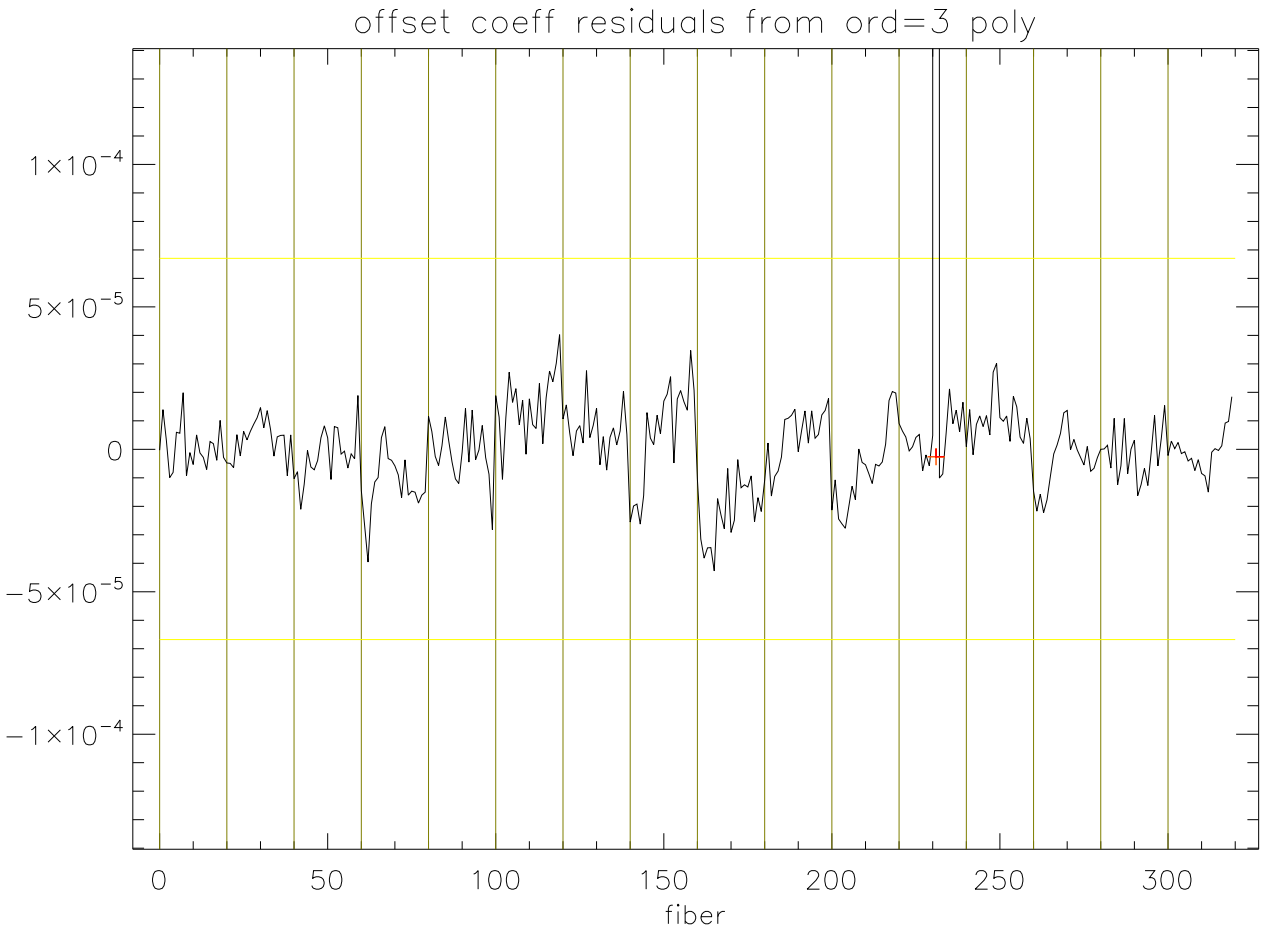

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

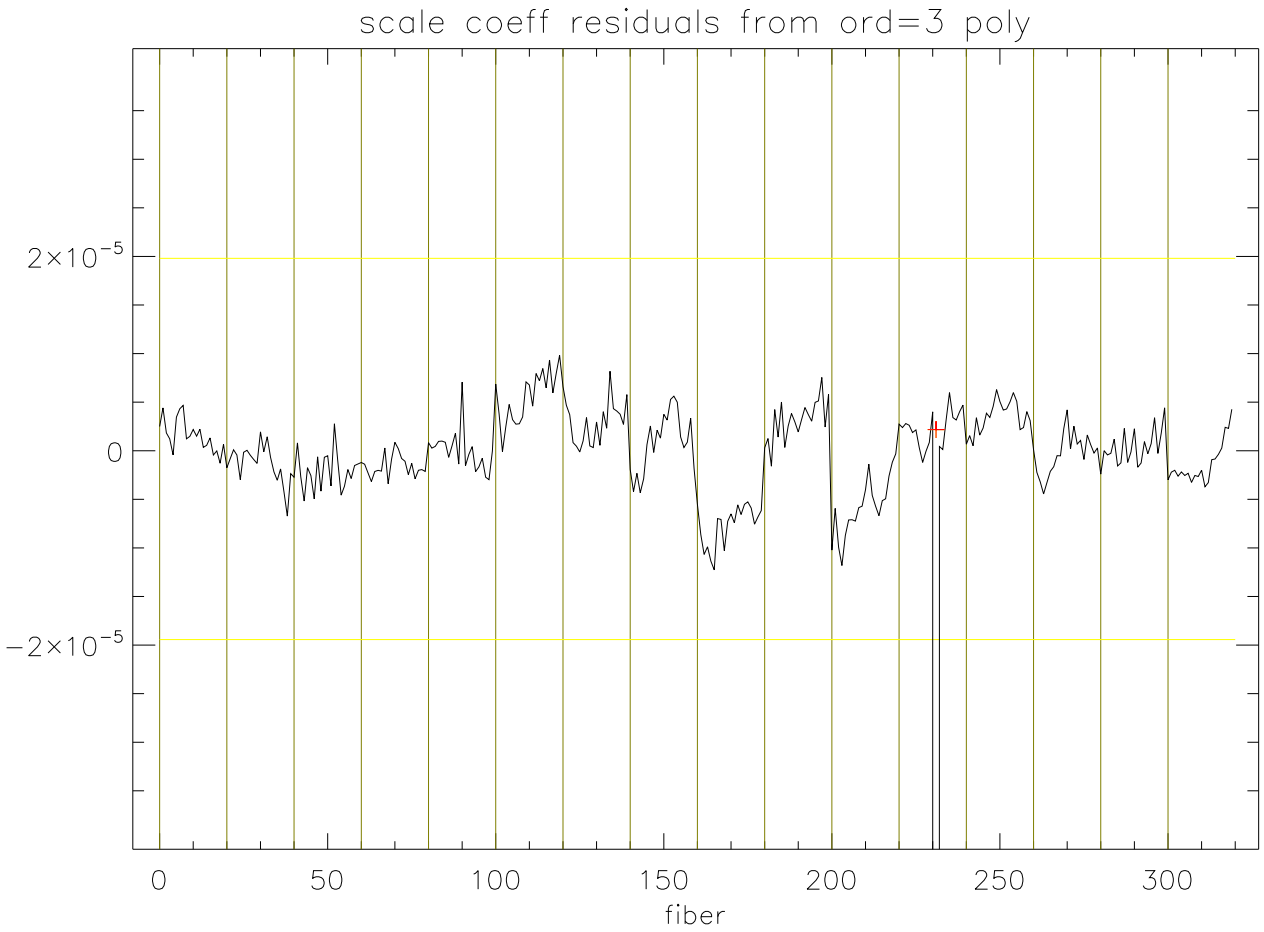

offset coeff residuals from ord=3 poly
1×10⁻⁴
5×10⁻⁵
0
−5×10⁻⁵
−1×10⁻⁴
0
50
100
150
200
250
300
fiber

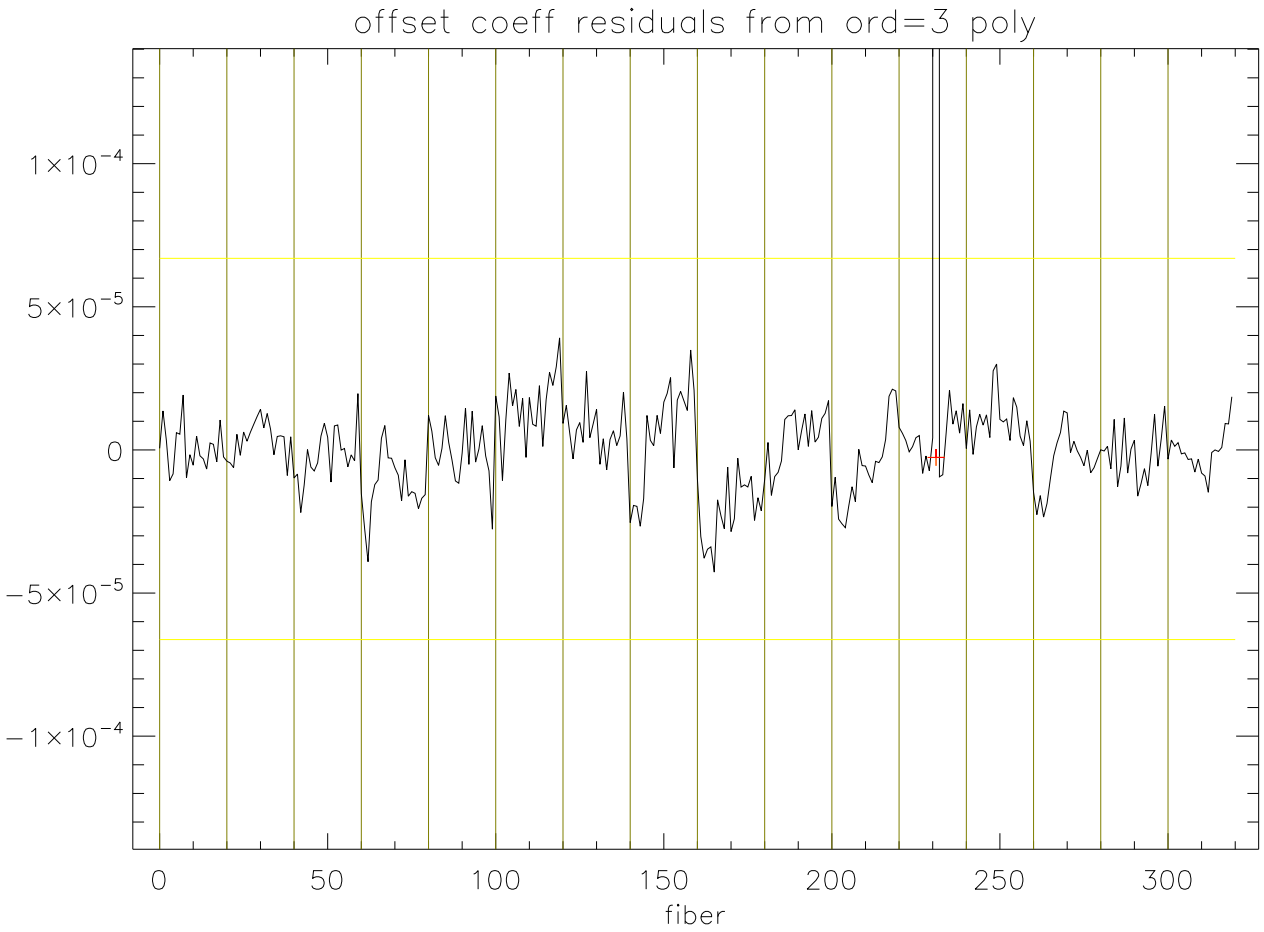

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

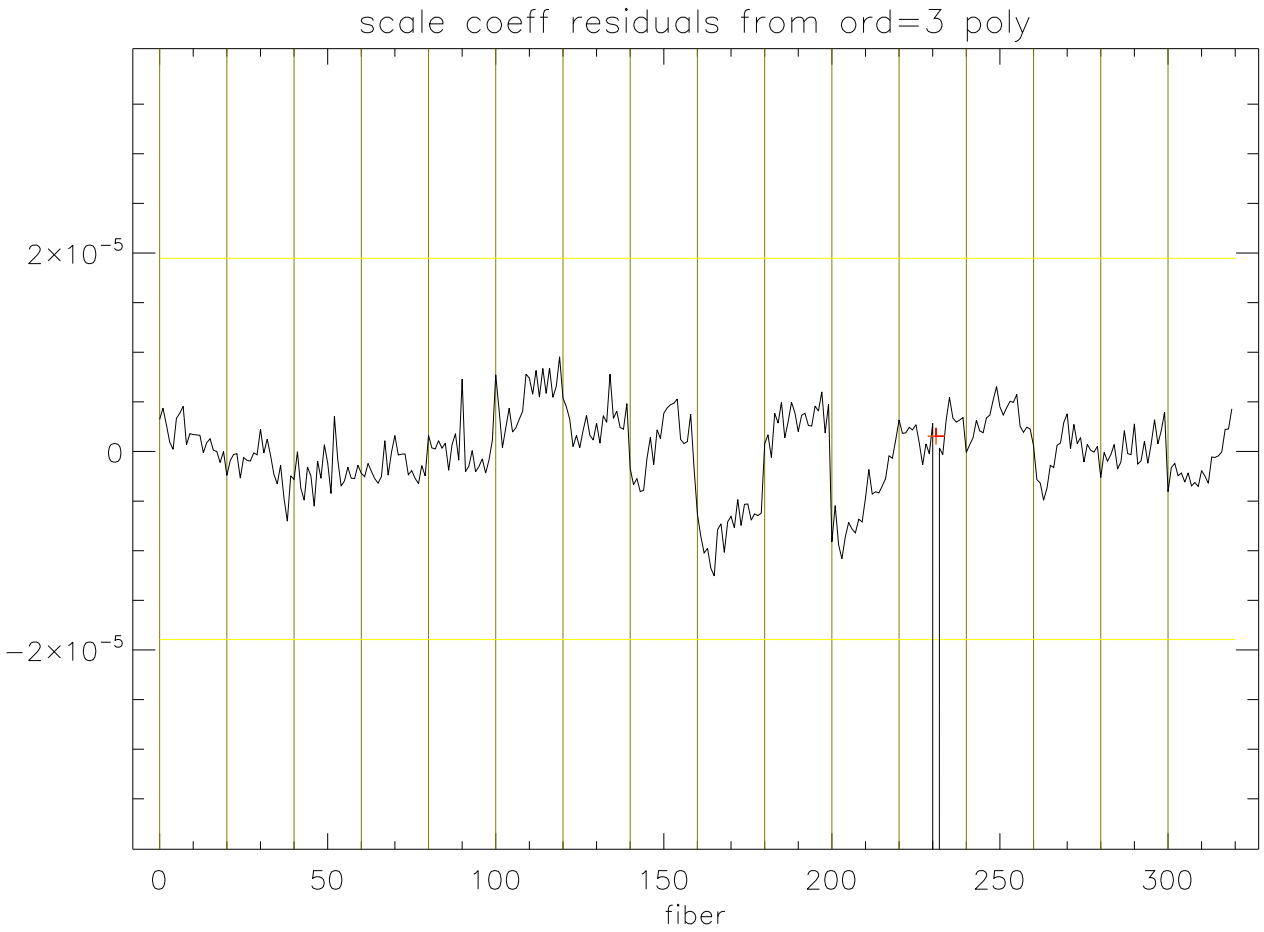

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

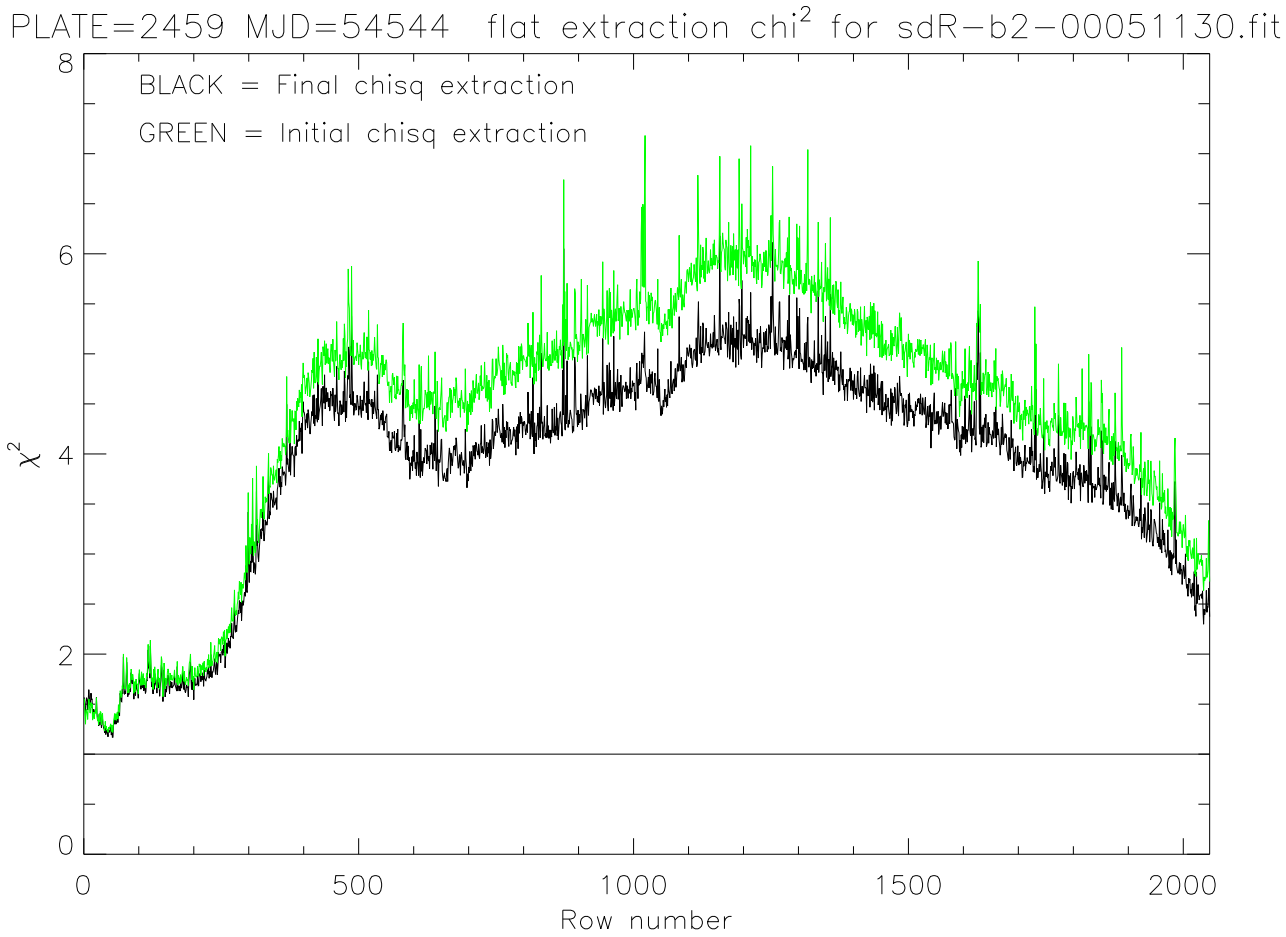

scale coeff residuals from ord=3 poly
4×10^-5
2×10^-5
0
−2×10^-5
−4×10^-5
0
50
100
150
200
250
300
fiber

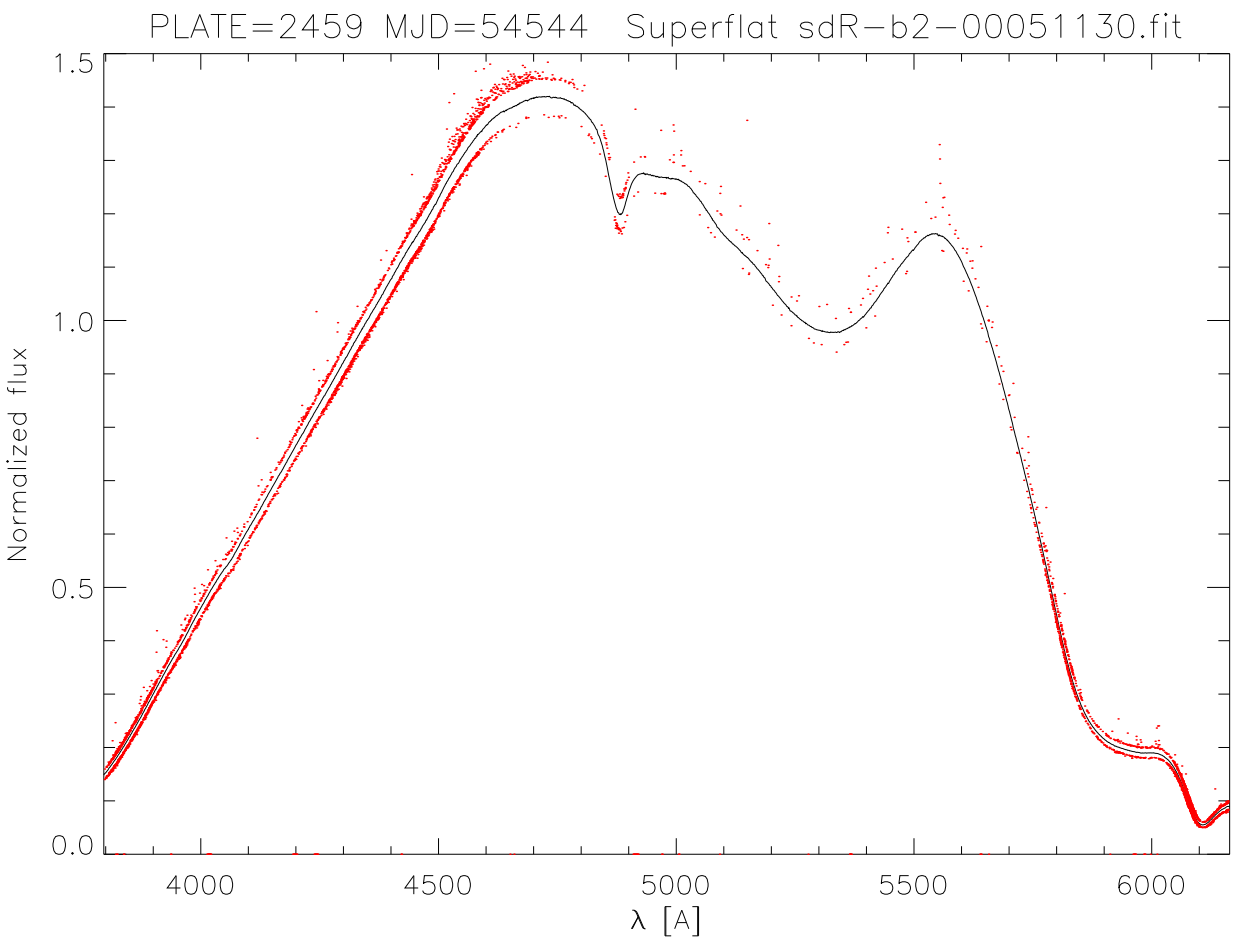

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

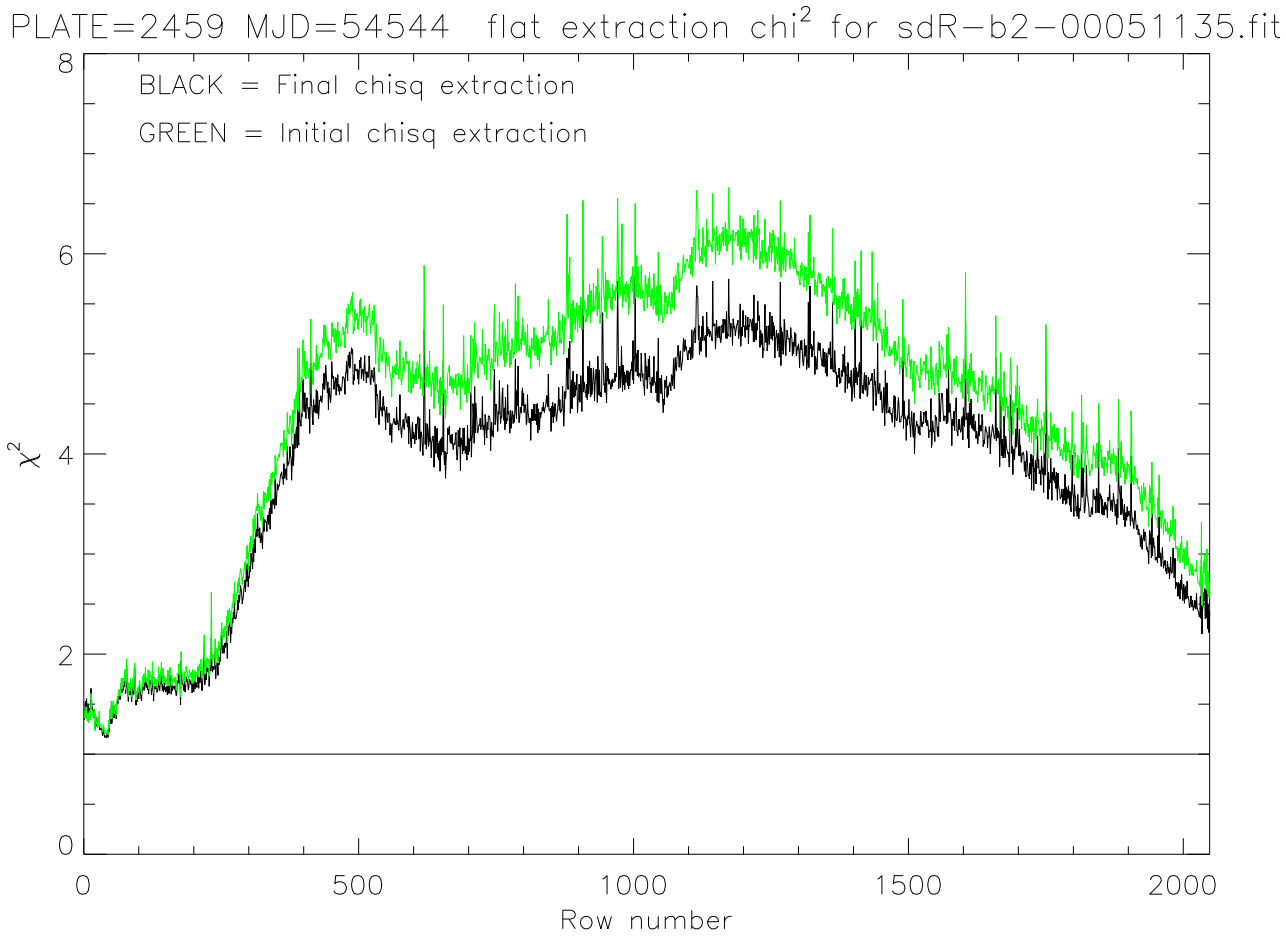

scale coeff residuals from ord=3 poly
2×10^-5
0
−2×10^-5
0
50
100
150
200
250
300
fiber

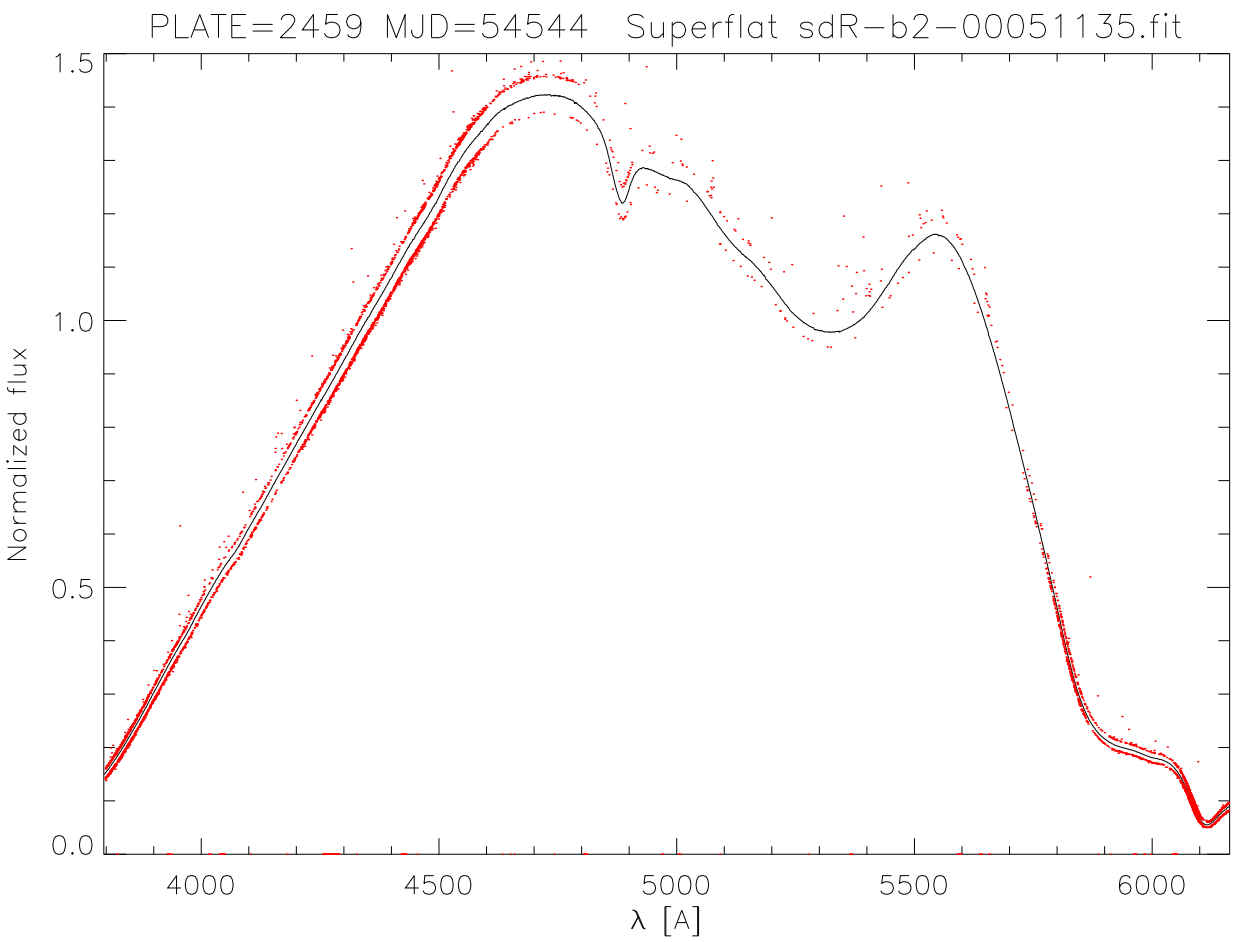

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

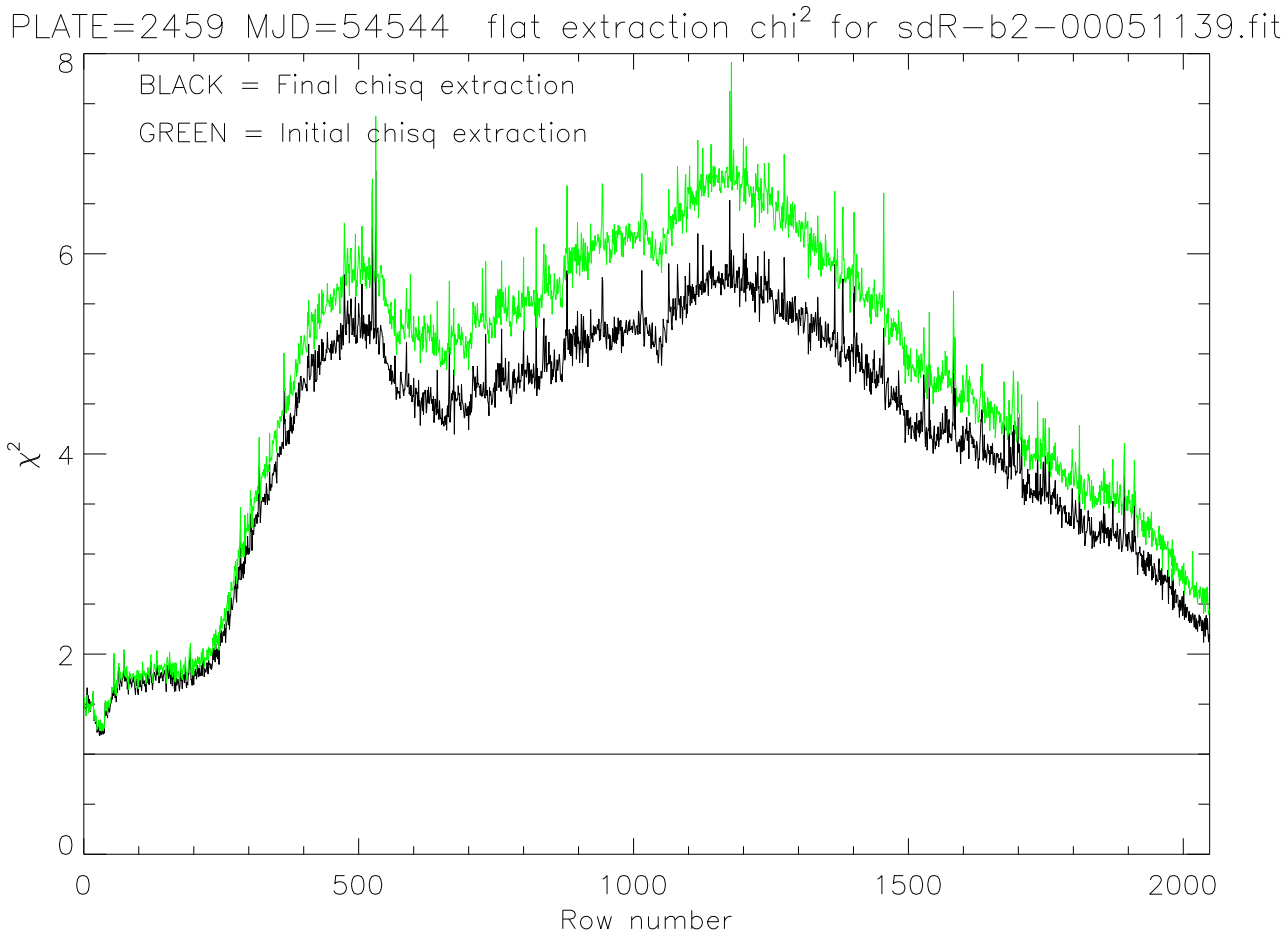

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

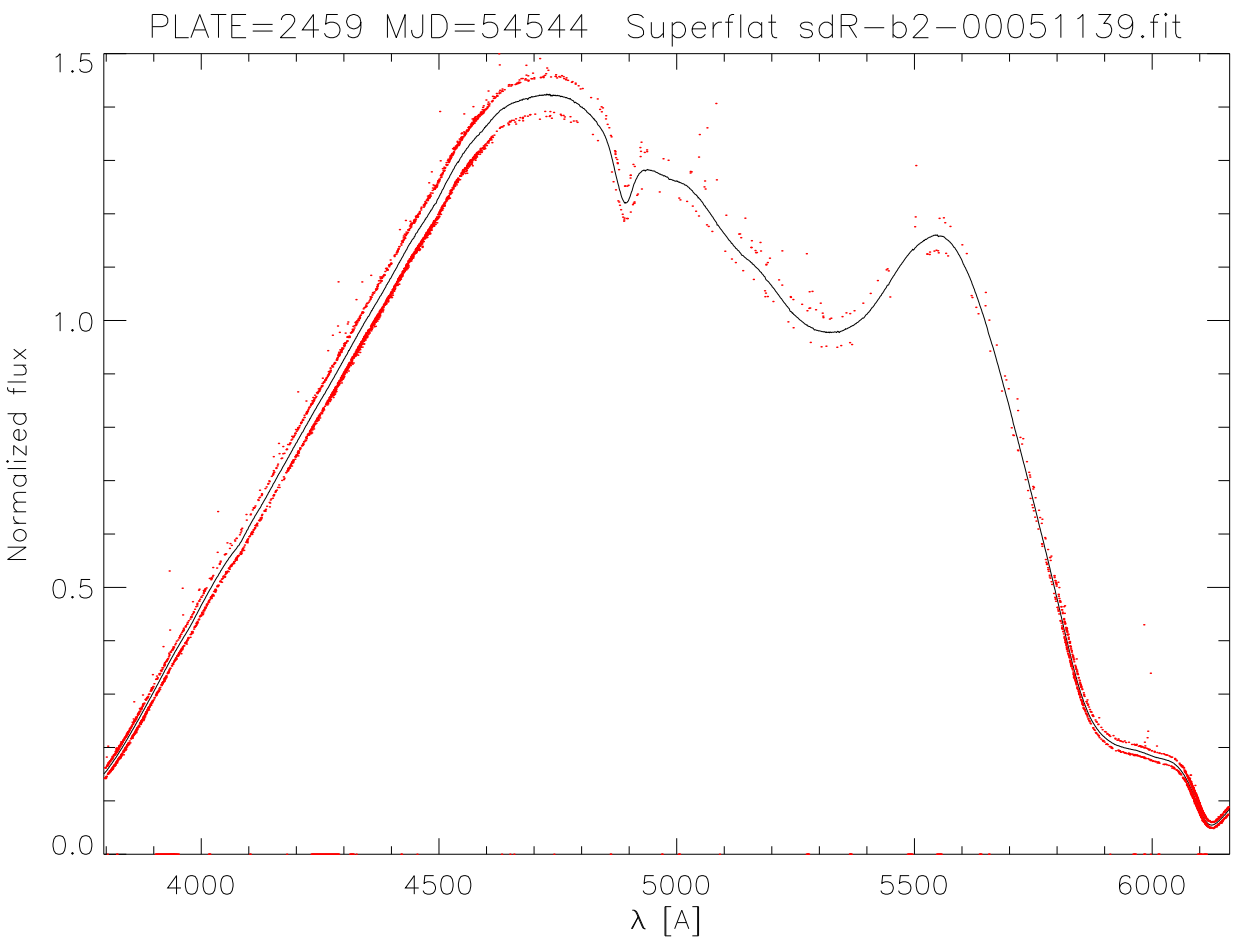

PLATE=2459 MJD=54544 flat extraction chi^2 for sdR−b2−00051130.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

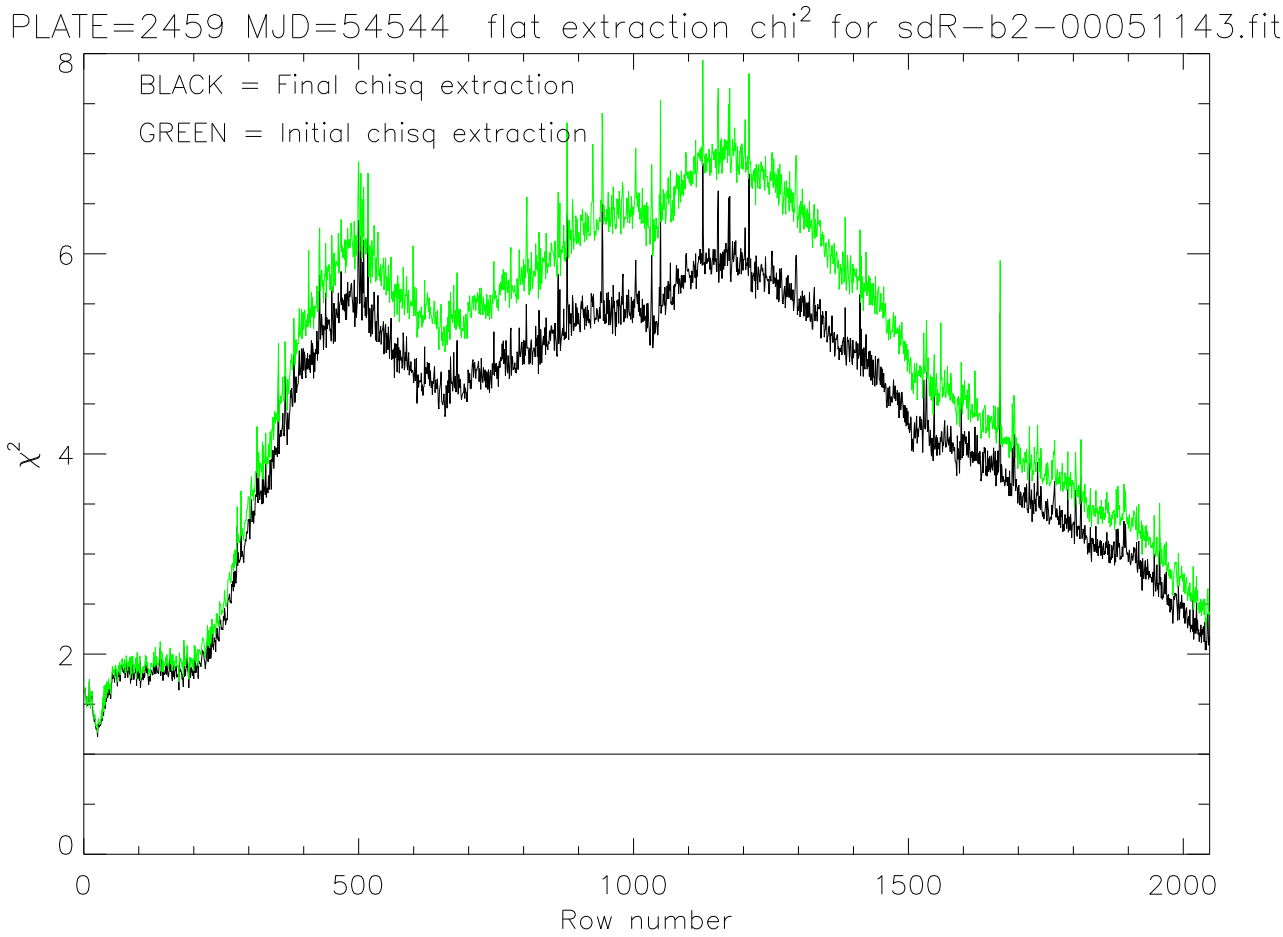

PLATE=2459 MJD=54544 Superflat sdR-b2-00051130.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

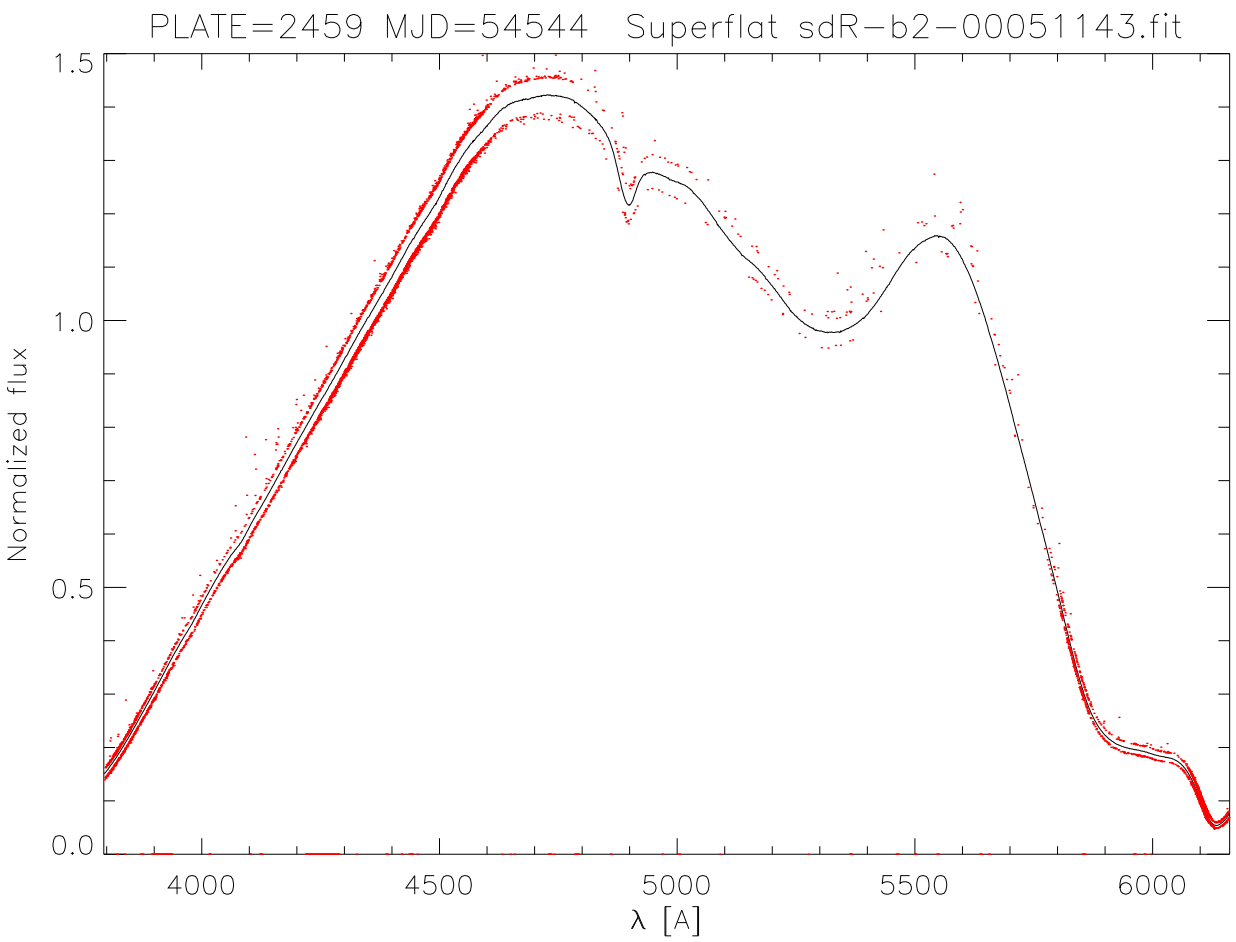

PLATE=2459 MJD=54544 flat extraction chi^2 for sdR−b2−00051135.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

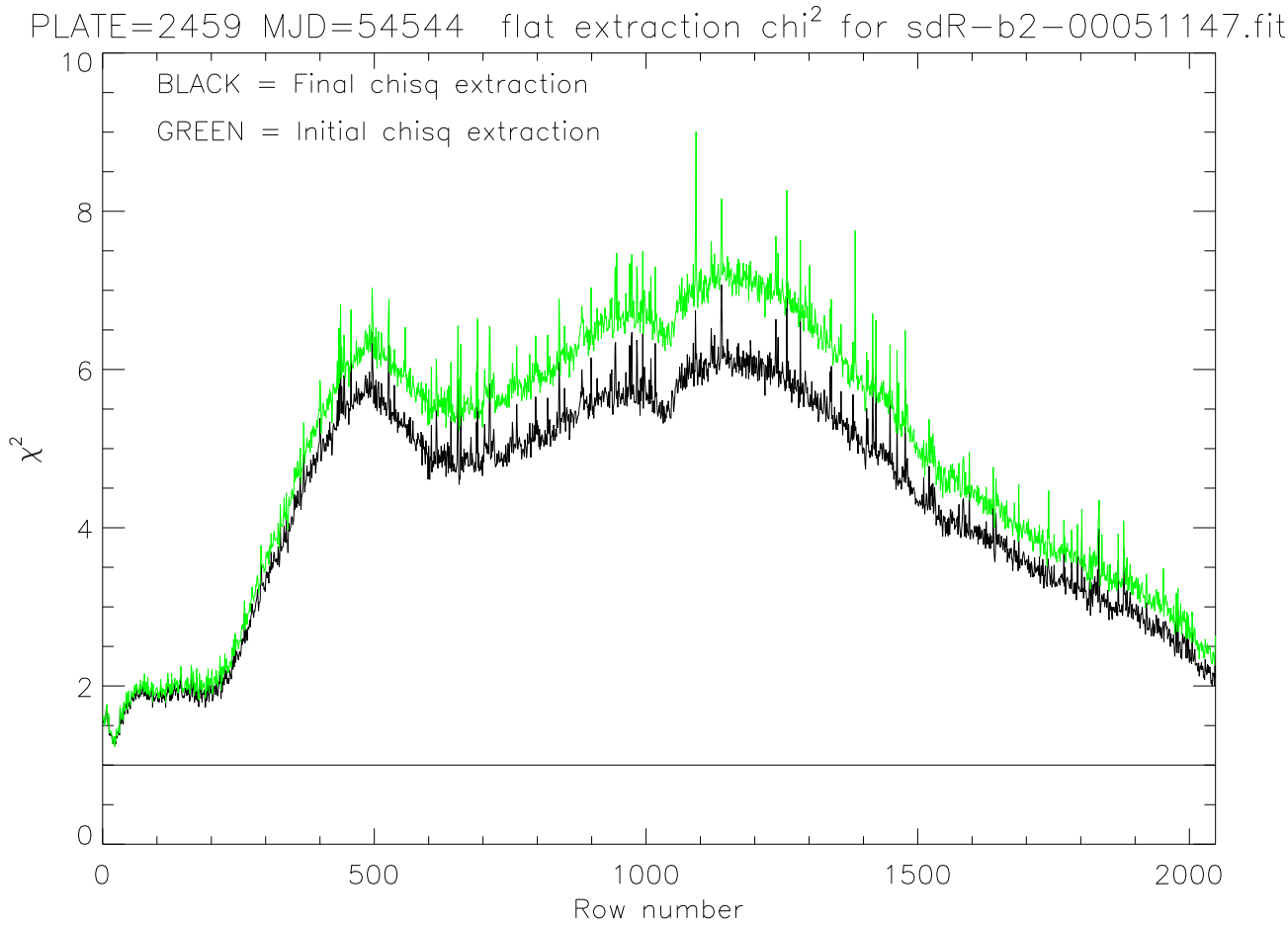

PLATE=2459 MJD=54544 Superflat sdR-b2-00051135.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

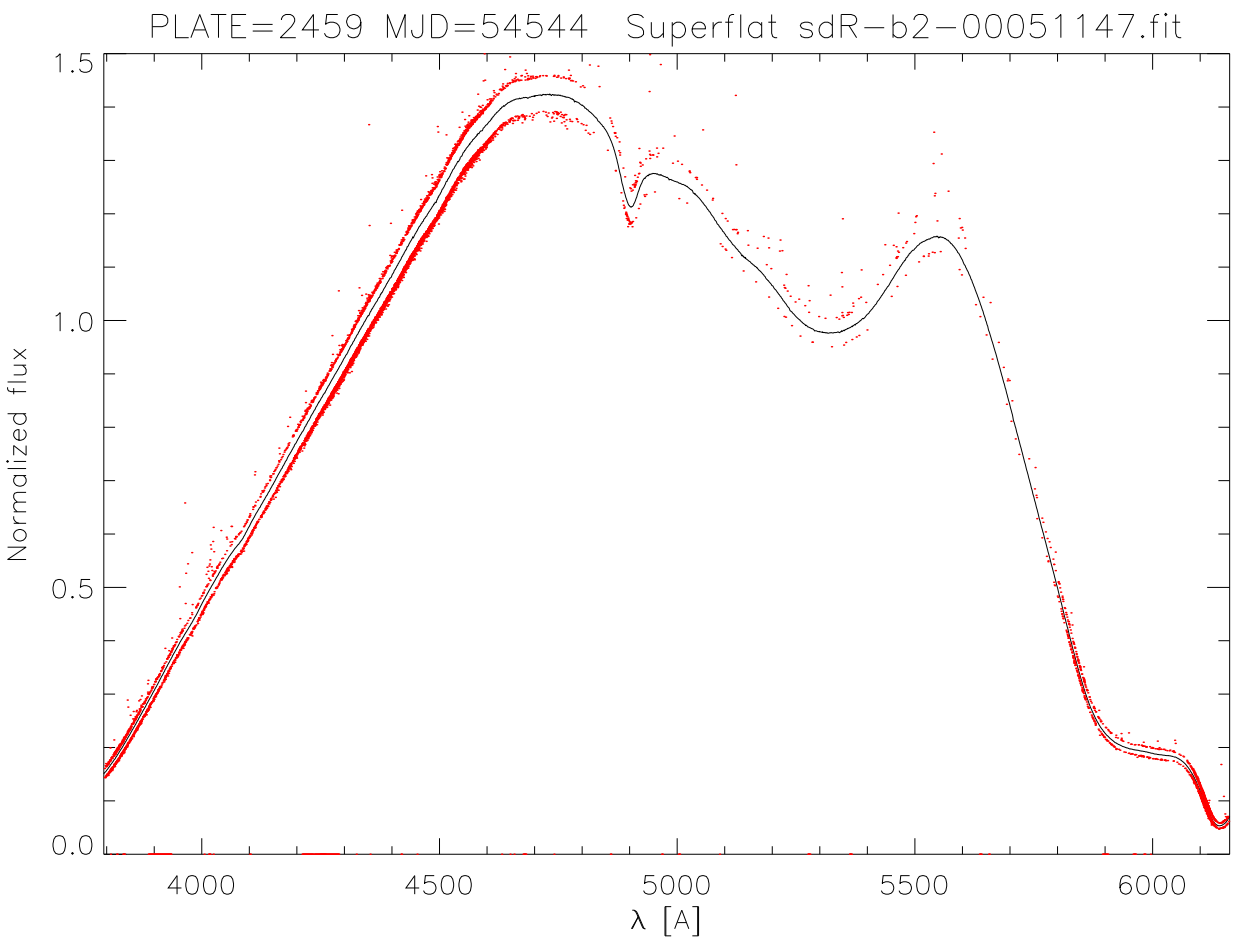

PLATE=2459 MJD=54544 flat extraction chi^2 for sdR−b2−00051139.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

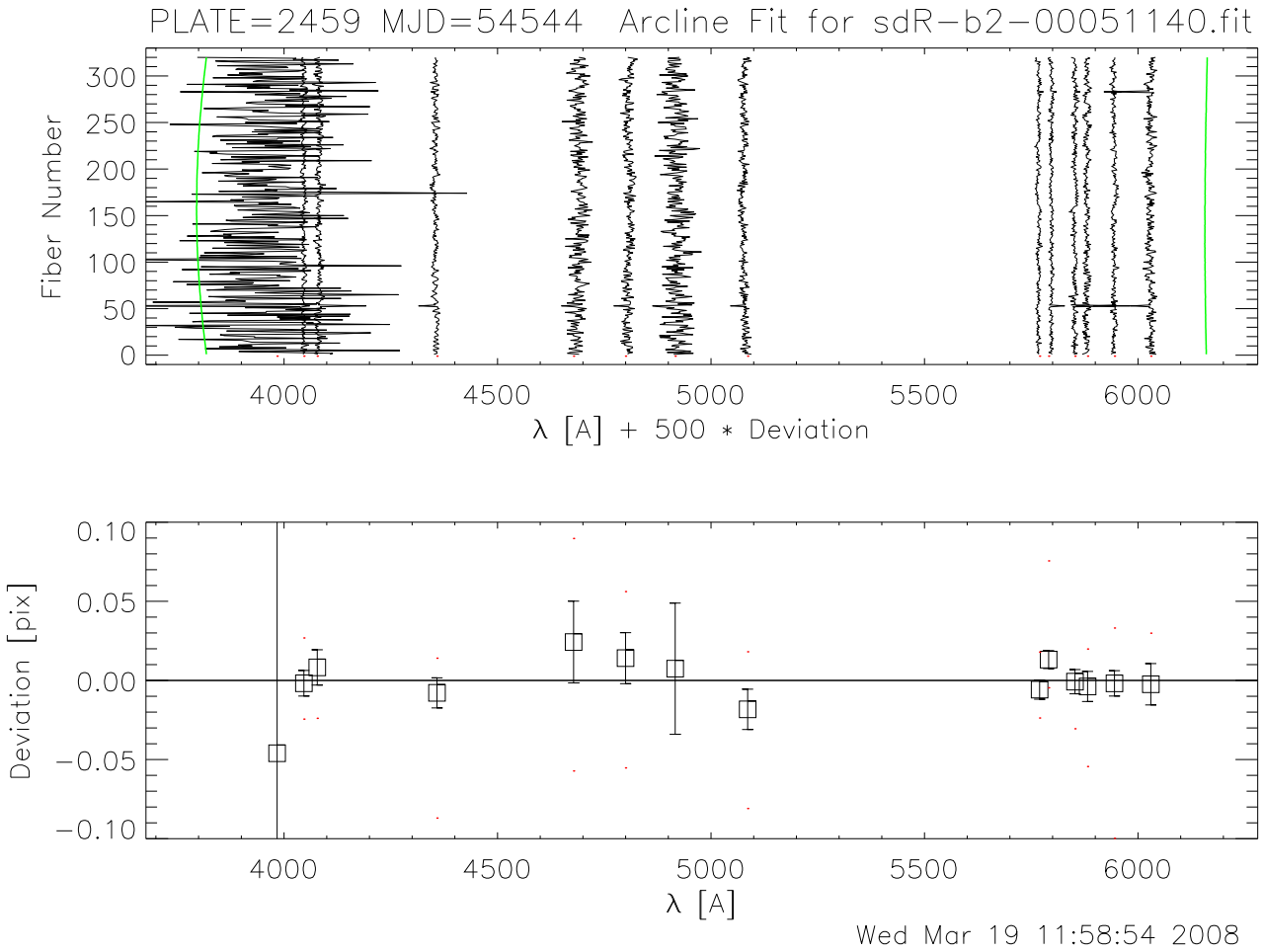

PLATE=2459 MJD=54544 Superflat sdR-b2-00051139.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

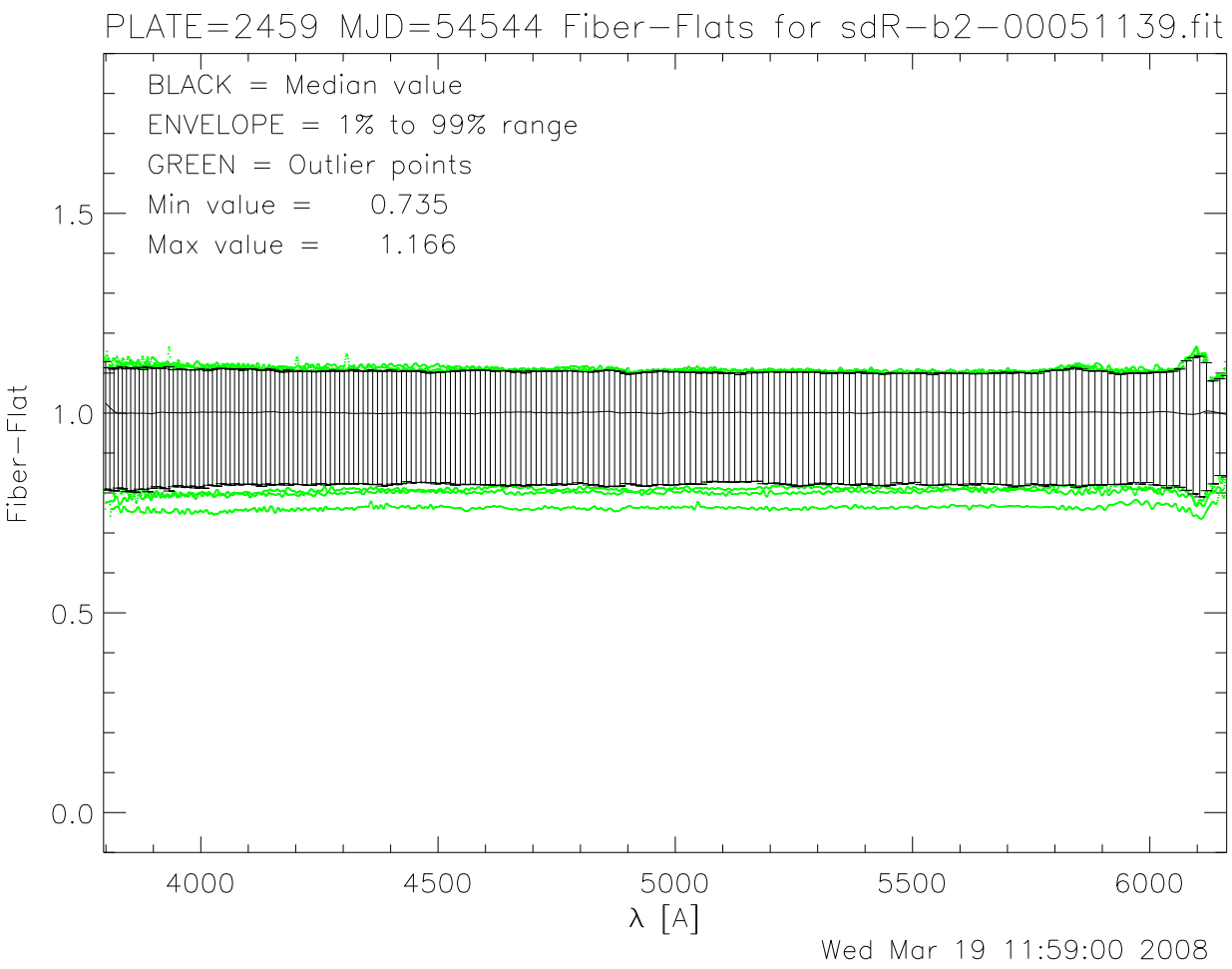

PLATE=2459 MJD=54544 flat extraction chi^2 for sdR−b2−00051143.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

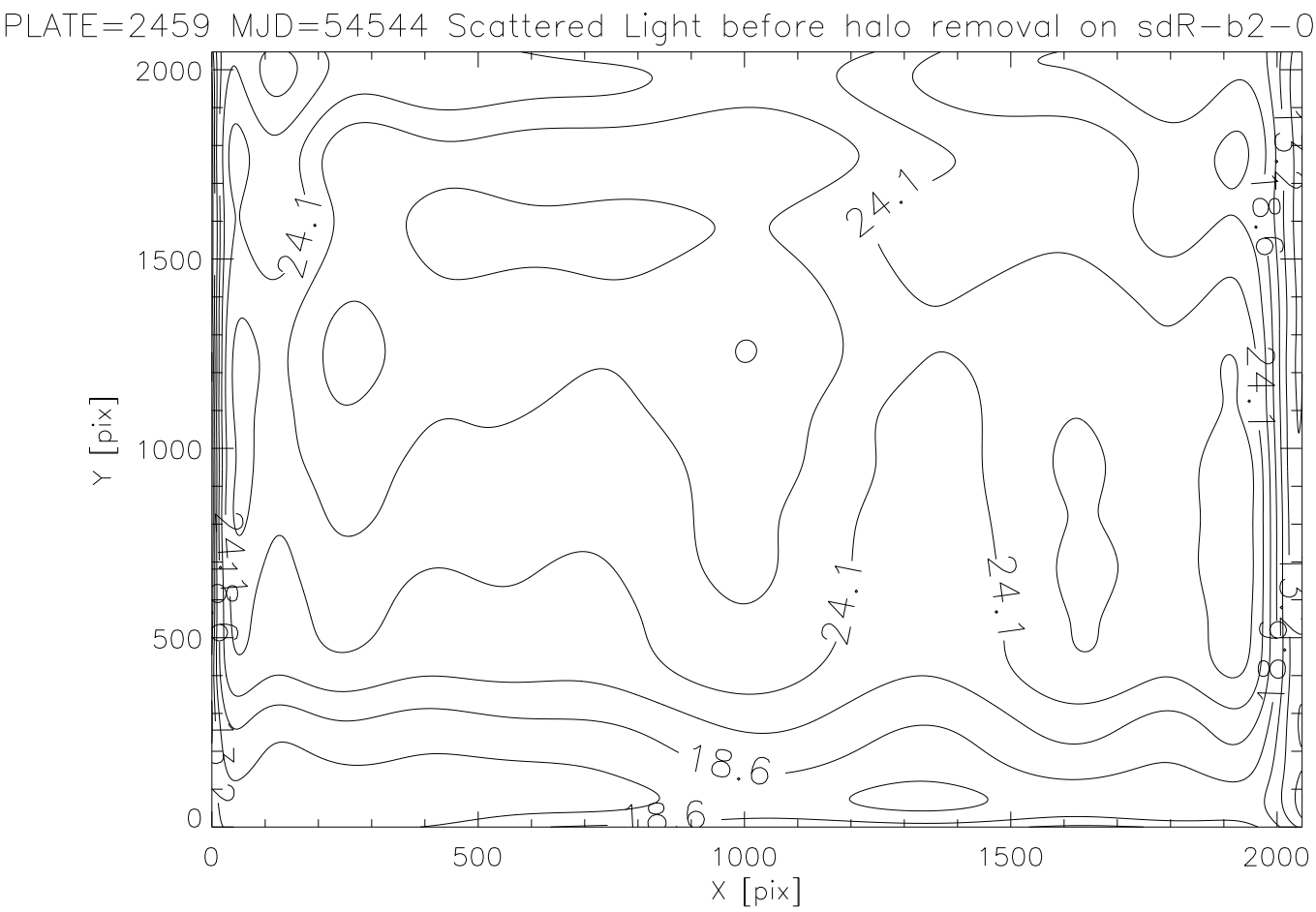

PLATE=2459 MJD=54544 Superflat sdR-b2-00051143.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

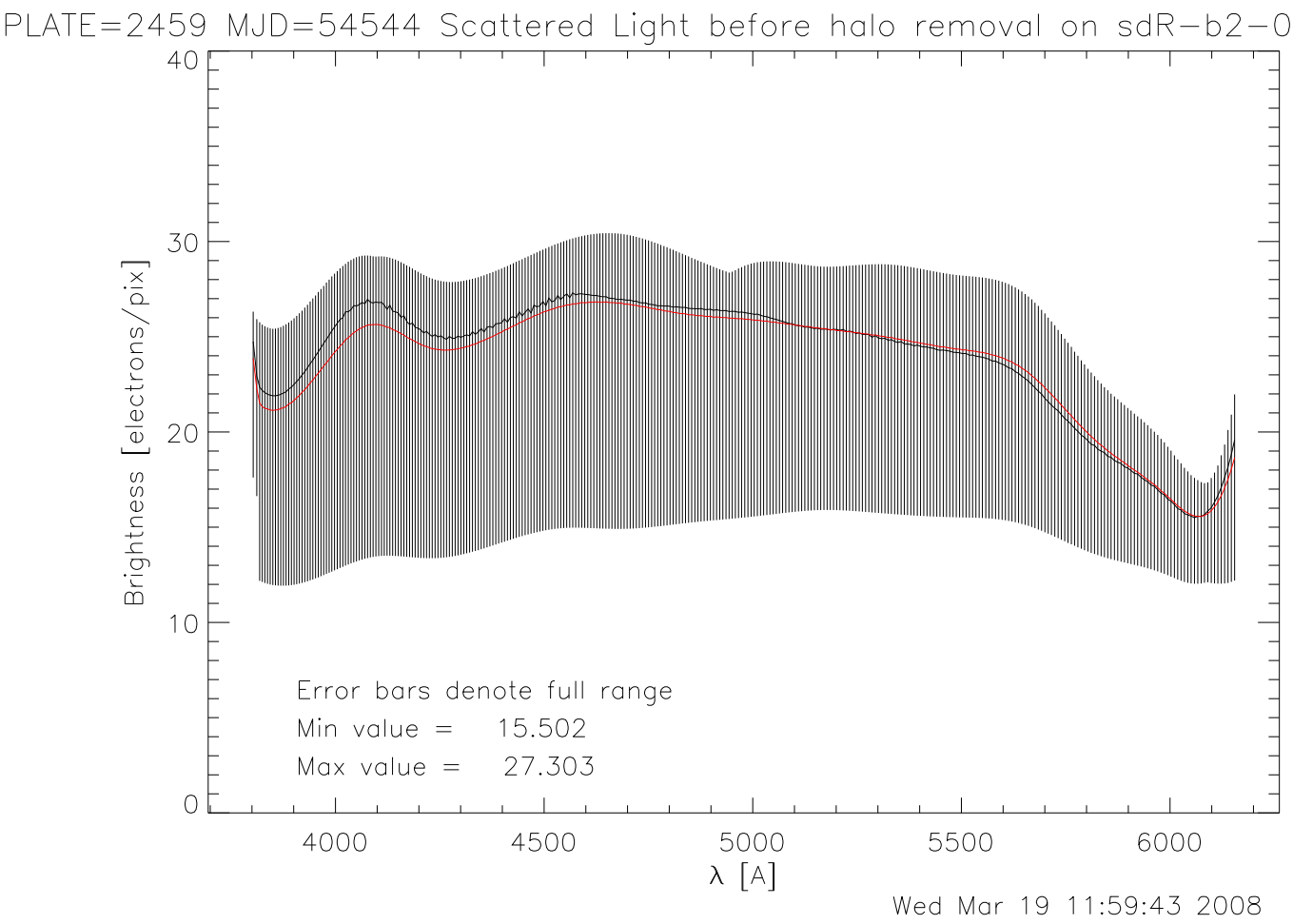

PLATE=2459 MJD=54544 flat extraction chi^2 for sdR−b2−00051147.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

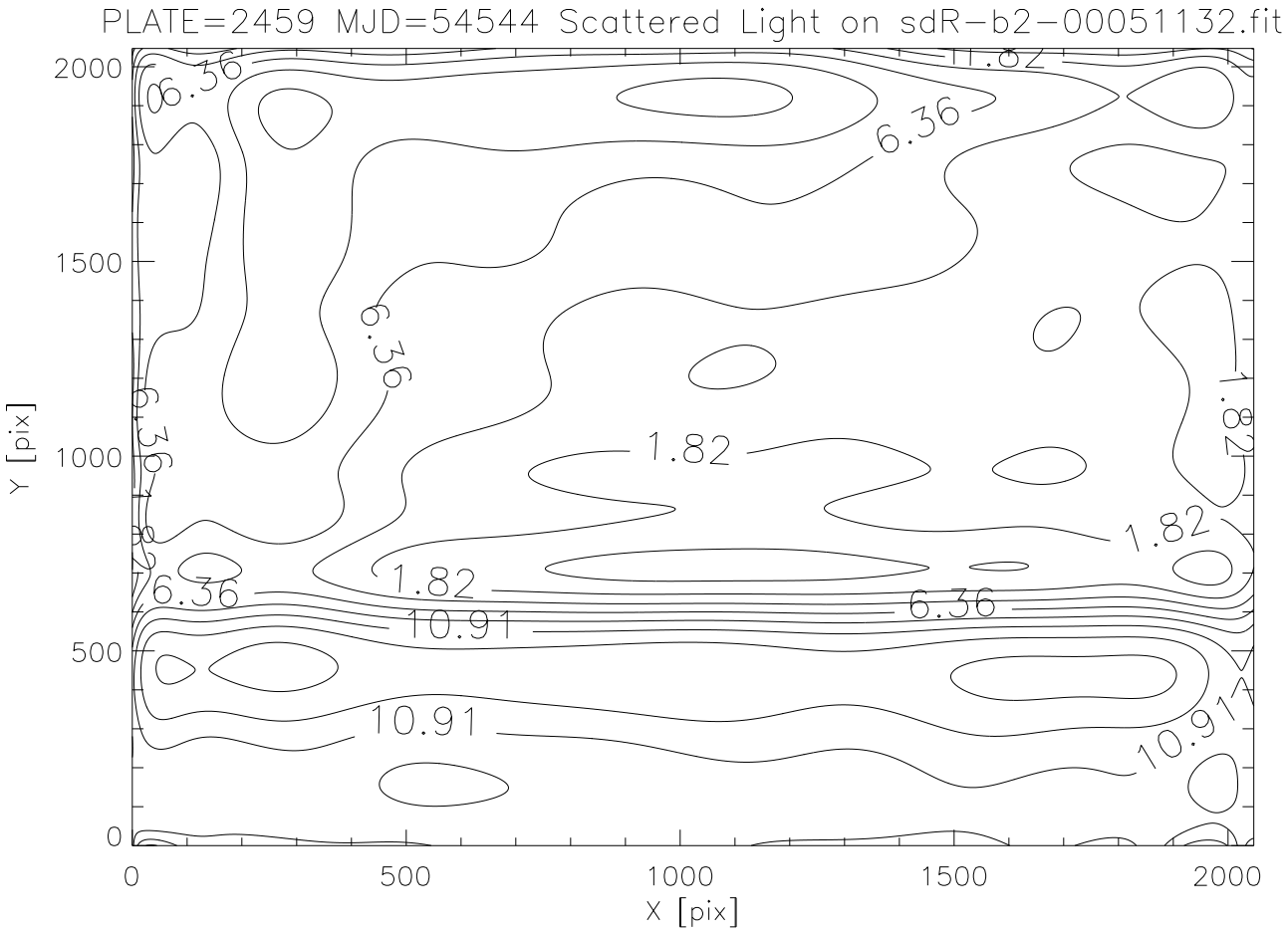

PLATE=2459 MJD=54544 Superflat sdR-b2-00051147.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

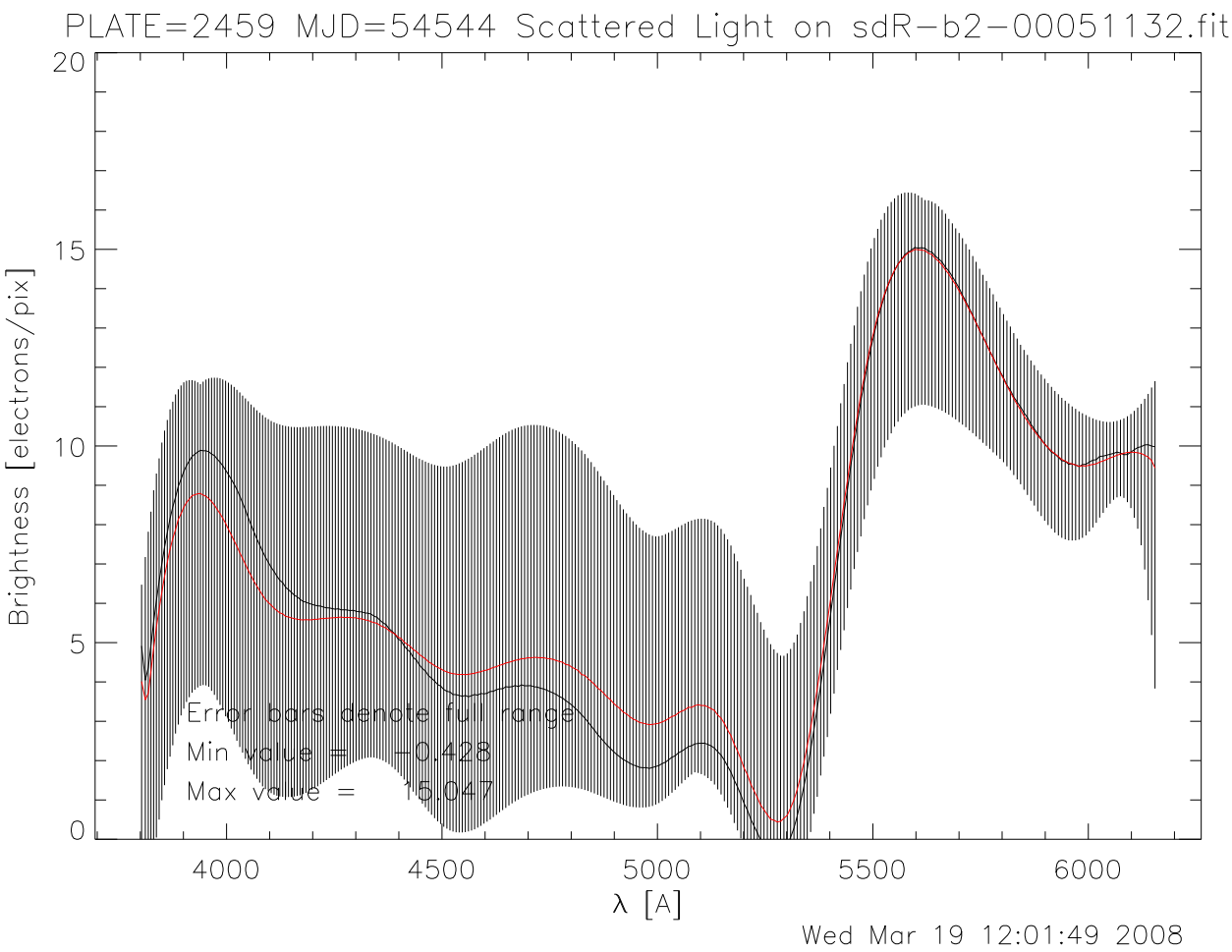

PLATE=2459 MJD=54544 Arcline Fit for sdR-b2-00051140.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Wed Mar 19 11:58:54 2008

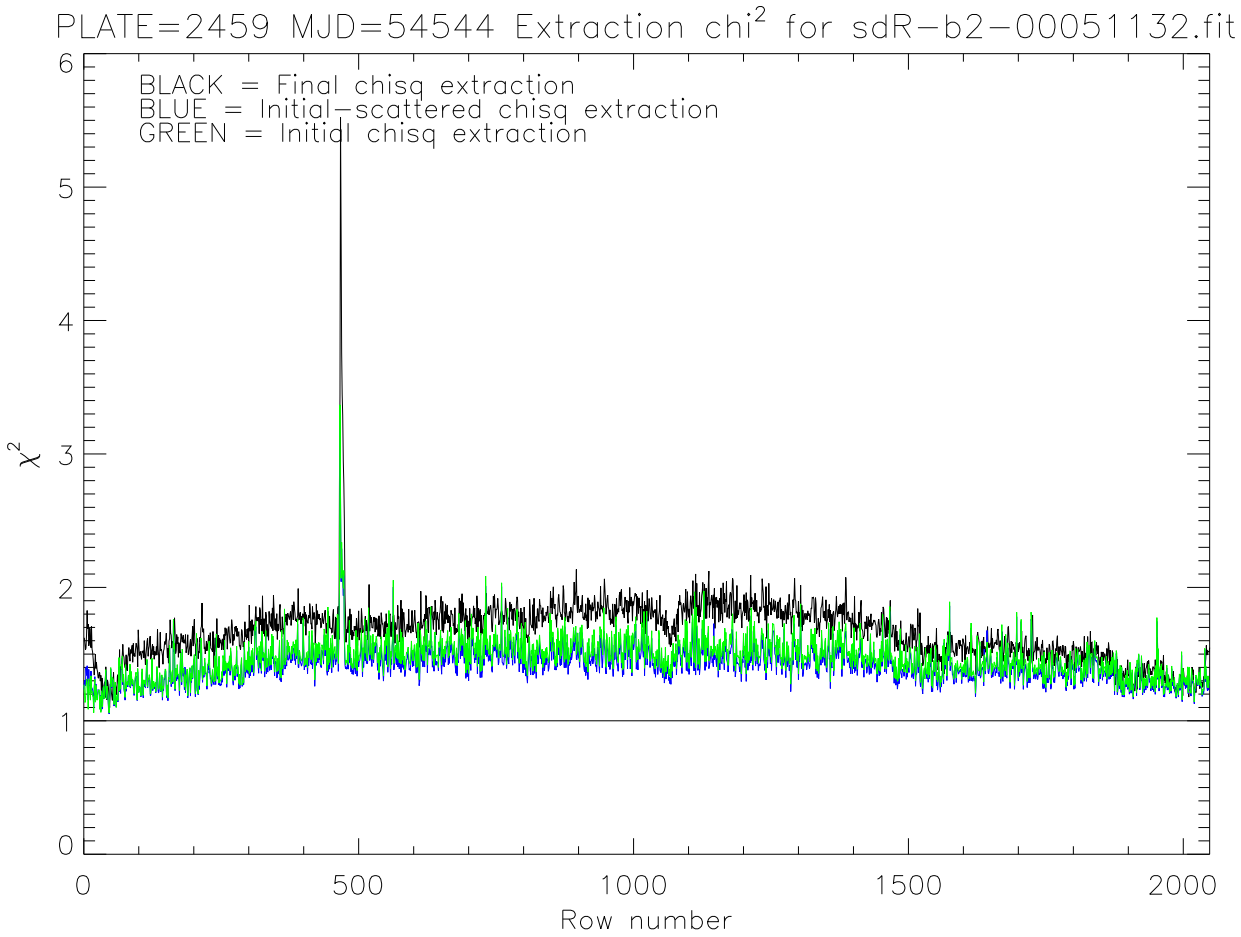

PLATE=2459 MJD=54544 Fiber-Flats for sdR-b2-00051139.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.735
Max value = 1.166
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 19 11:59:00 2008

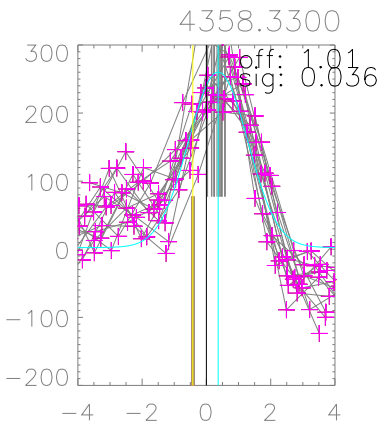

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR−b2−00051132.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
24.1
18.6
0

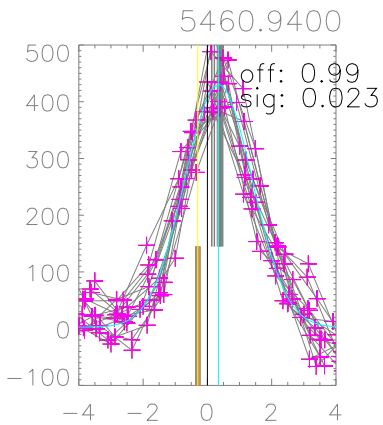

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-b2-00051132.f
Brightness [electrons/pix]
40
30
20
10
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 15.502
Max value = 27.303
Wed Mar 19 11:59:43 2008

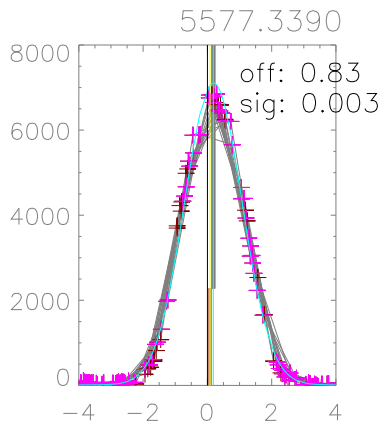

PLATE=2459 MJD=54544 Scattered Light on sdR-b2-00051132.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
6.36
1.82
10.91

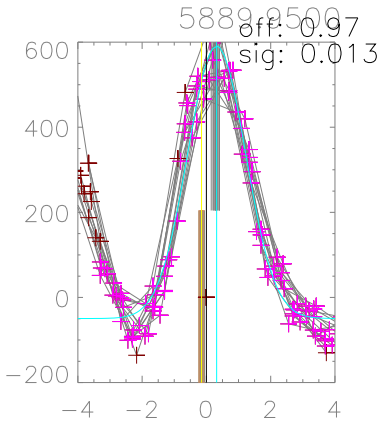

PLATE=2459 MJD=54544 Scattered Light on sdR-b2-00051132.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = -0.428
Max value = 15.047
Wed Mar 19 12:01:49 2008

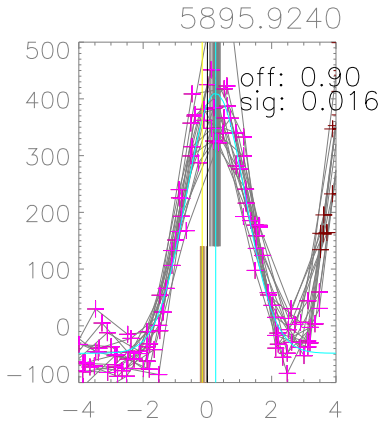

PLATE=2459 MJD=54544 Extraction chi^2 for sdR-b2-00051132.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

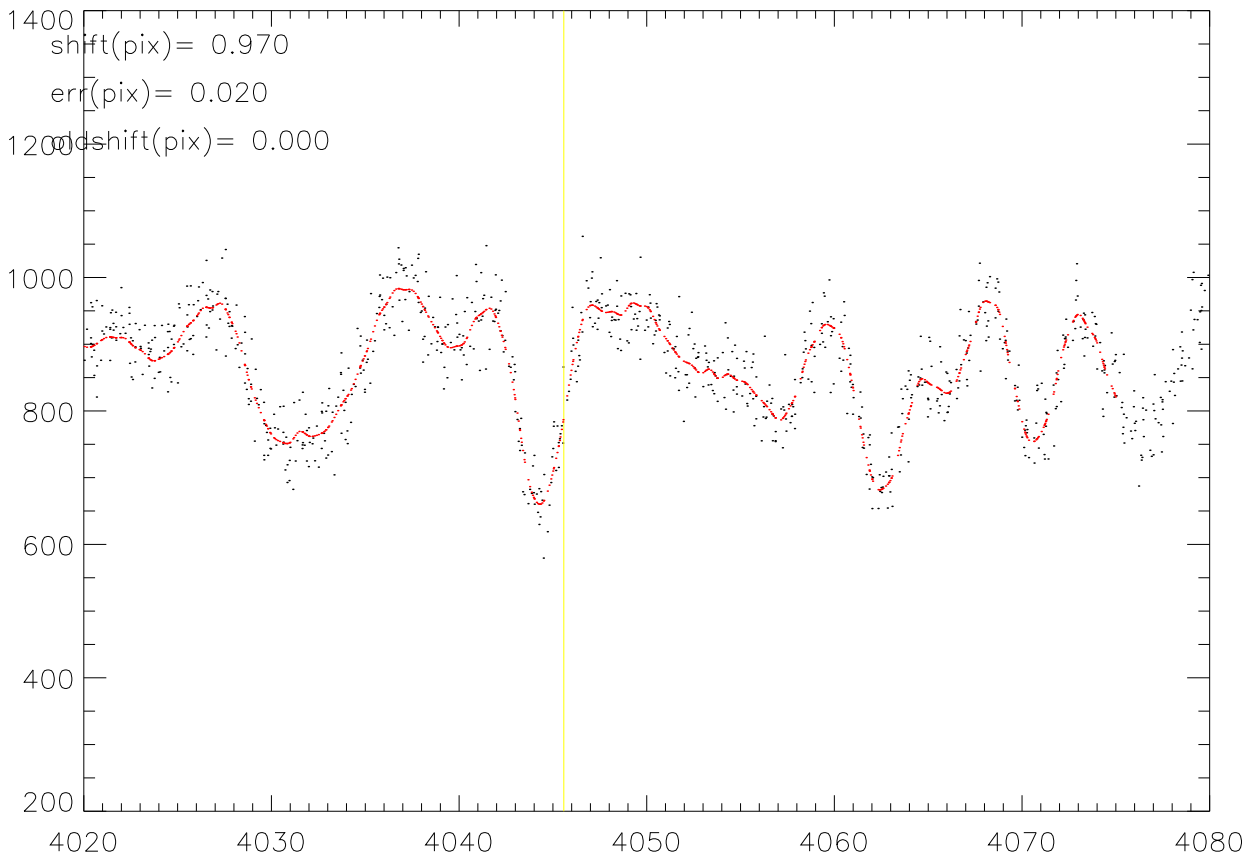

4358.3300
off: 1.01
sig: 0.036

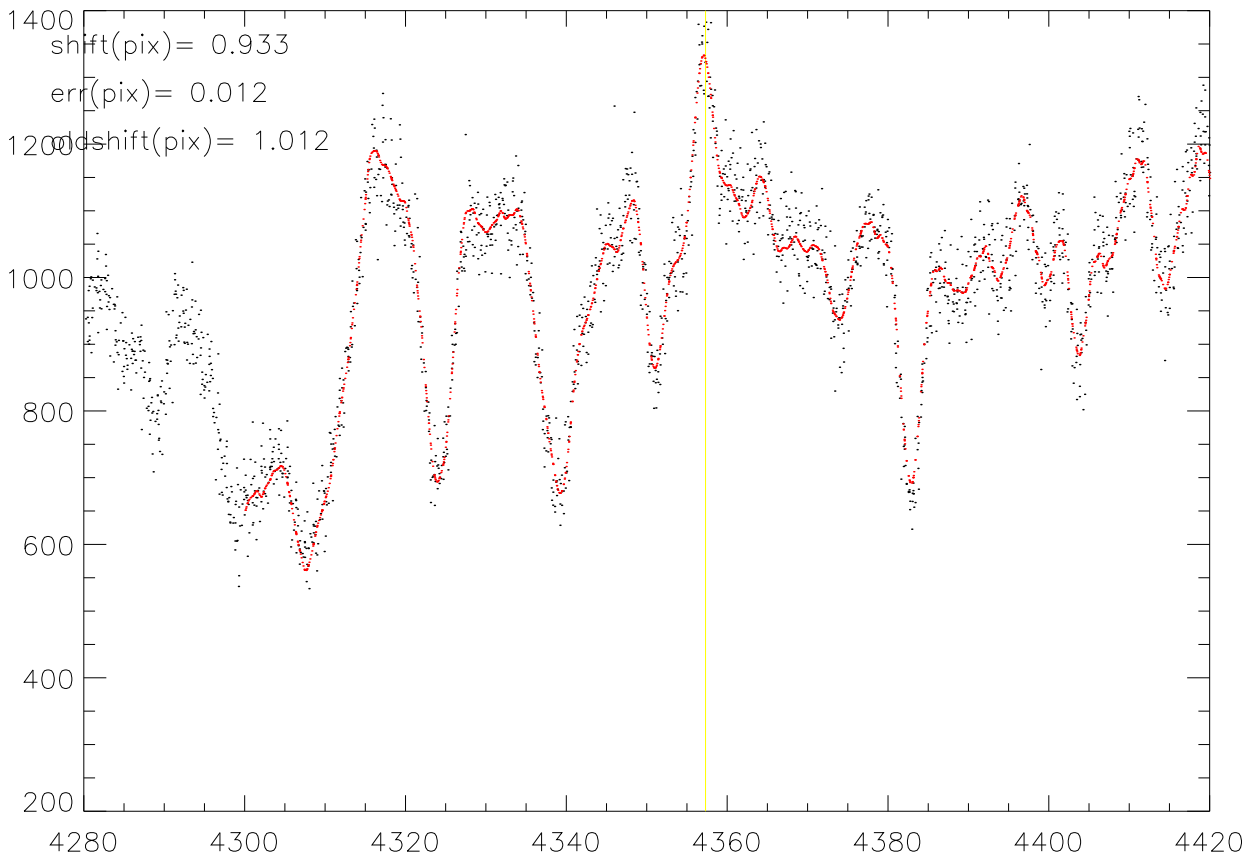

5460.9400
off: 0.99
sig: 0.023

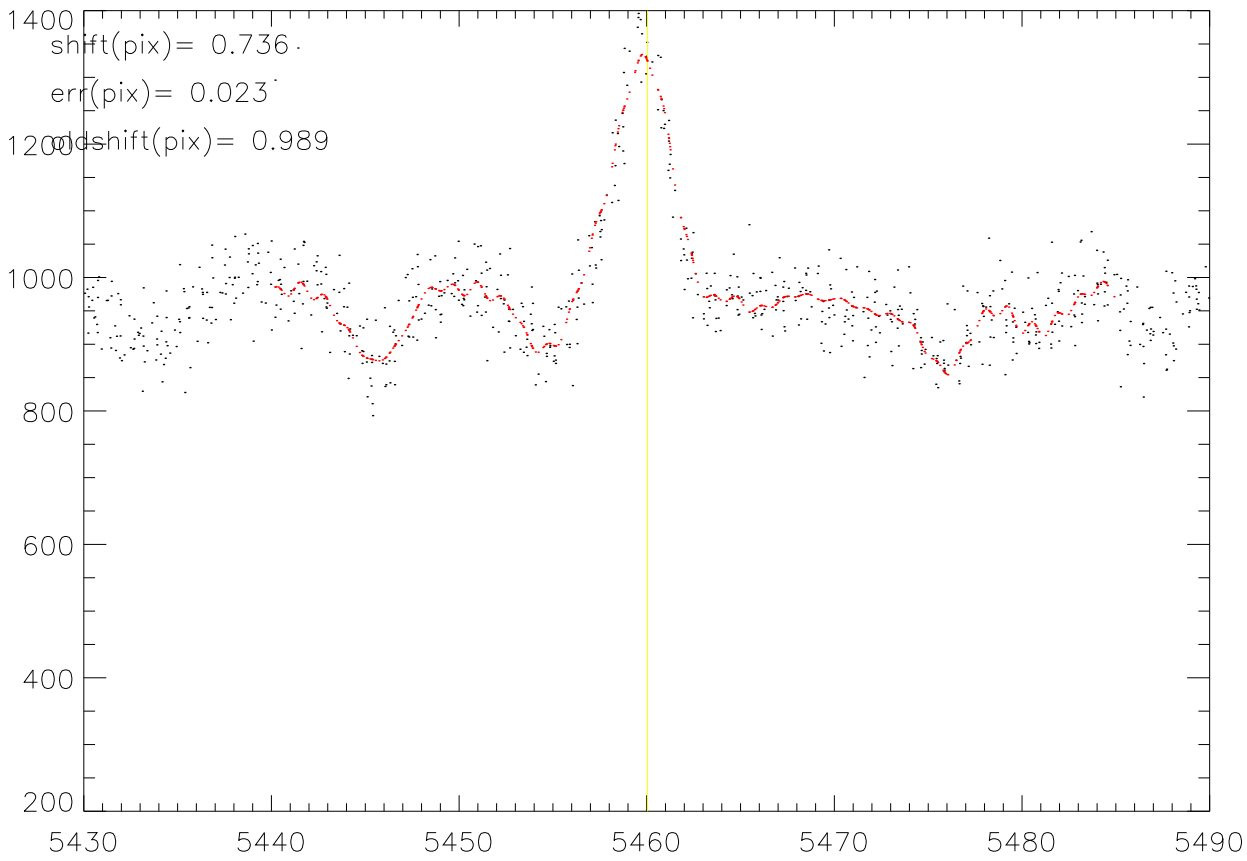

5577.3390
off: 0.83
sig: 0.003

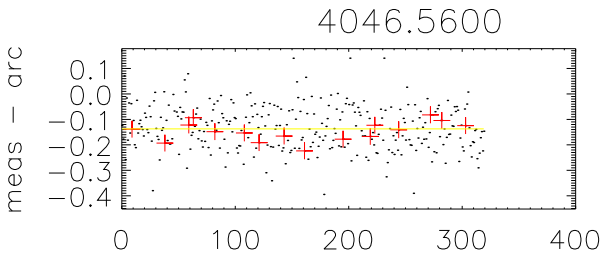

5889.9500
off: 0.97
sig: 0.013

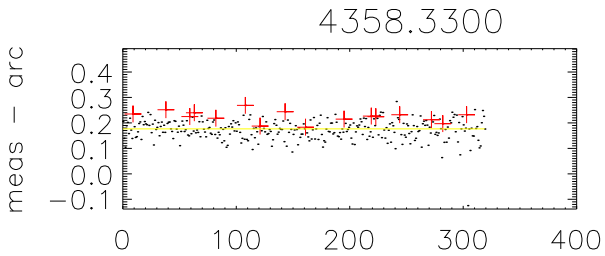

5895.9240
off: 0.90
sig: 0.016

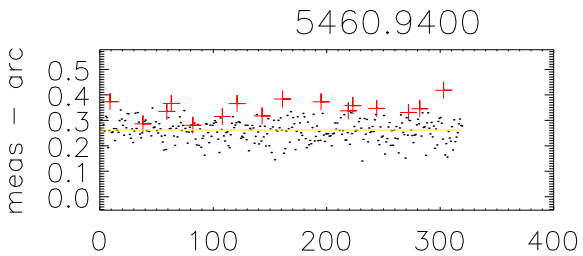

shift(pix)= 0.970
err(pix)= 0.020
oldshift(pix)= 0.000
1400
1200
1000
800
600
400
200
4020
4030
4040
4050
4060
4070
4080

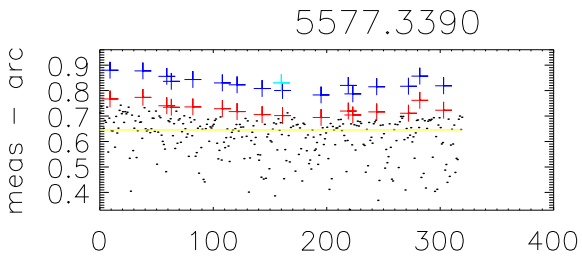

shift(pix)= 0.933
err(pix)= 0.012
oldshift(pix)= 1.012
1400
1200
1000
800
600
400
200
4280
4300
4320
4340
4360
4380
4400
4420

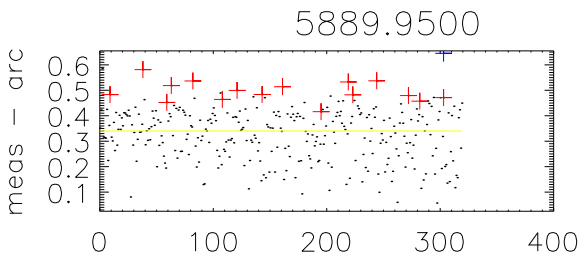

shift(pix)= 0.736
err(pix)= 0.023
oldshift(pix)= 0.989
1400
1200
1000
800
600
400
200
5430
5440
5450
5460
5470
5480
5490

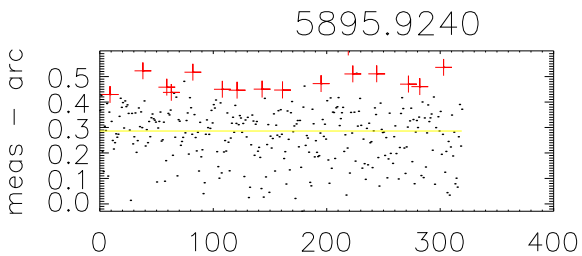

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

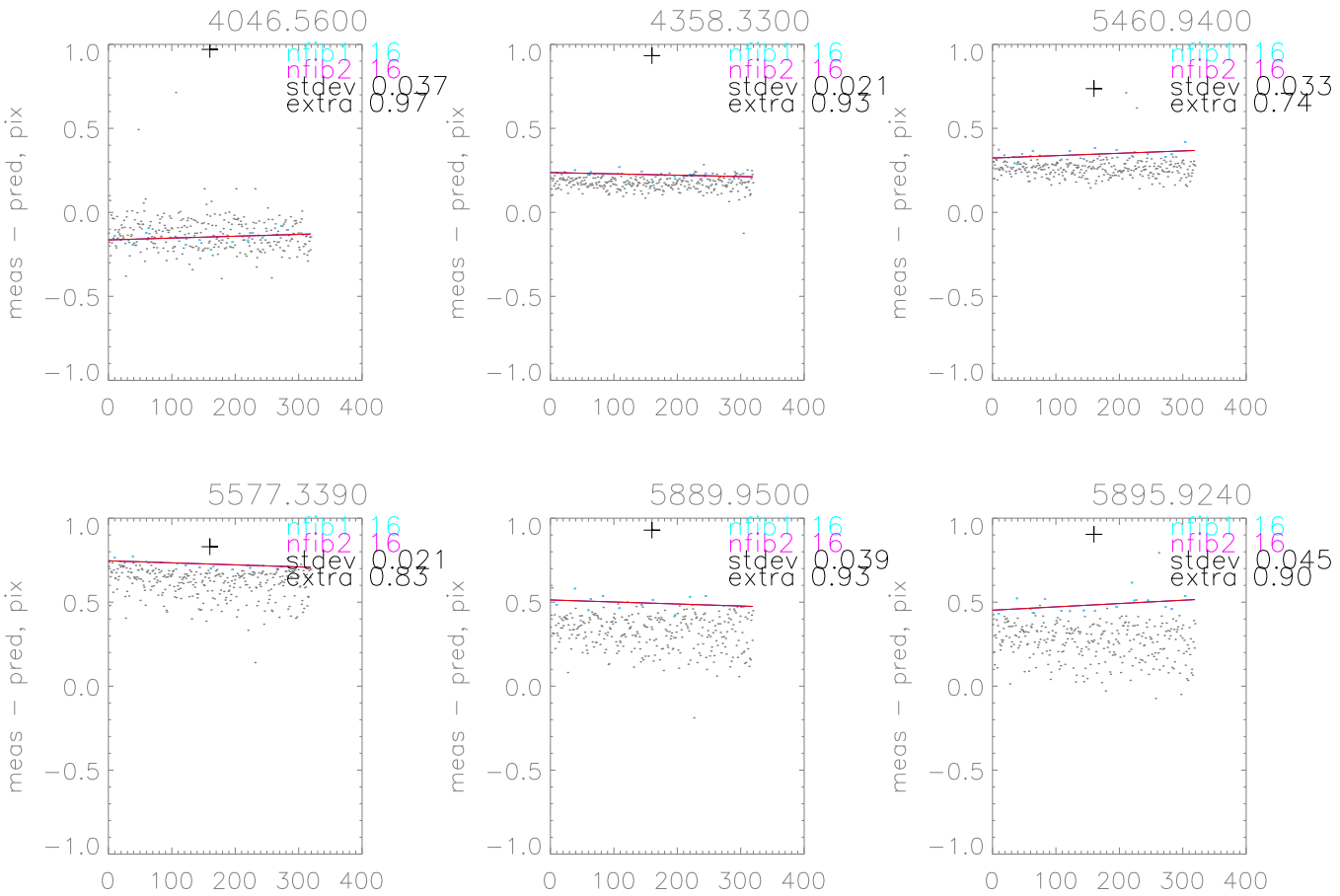

4358.3300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

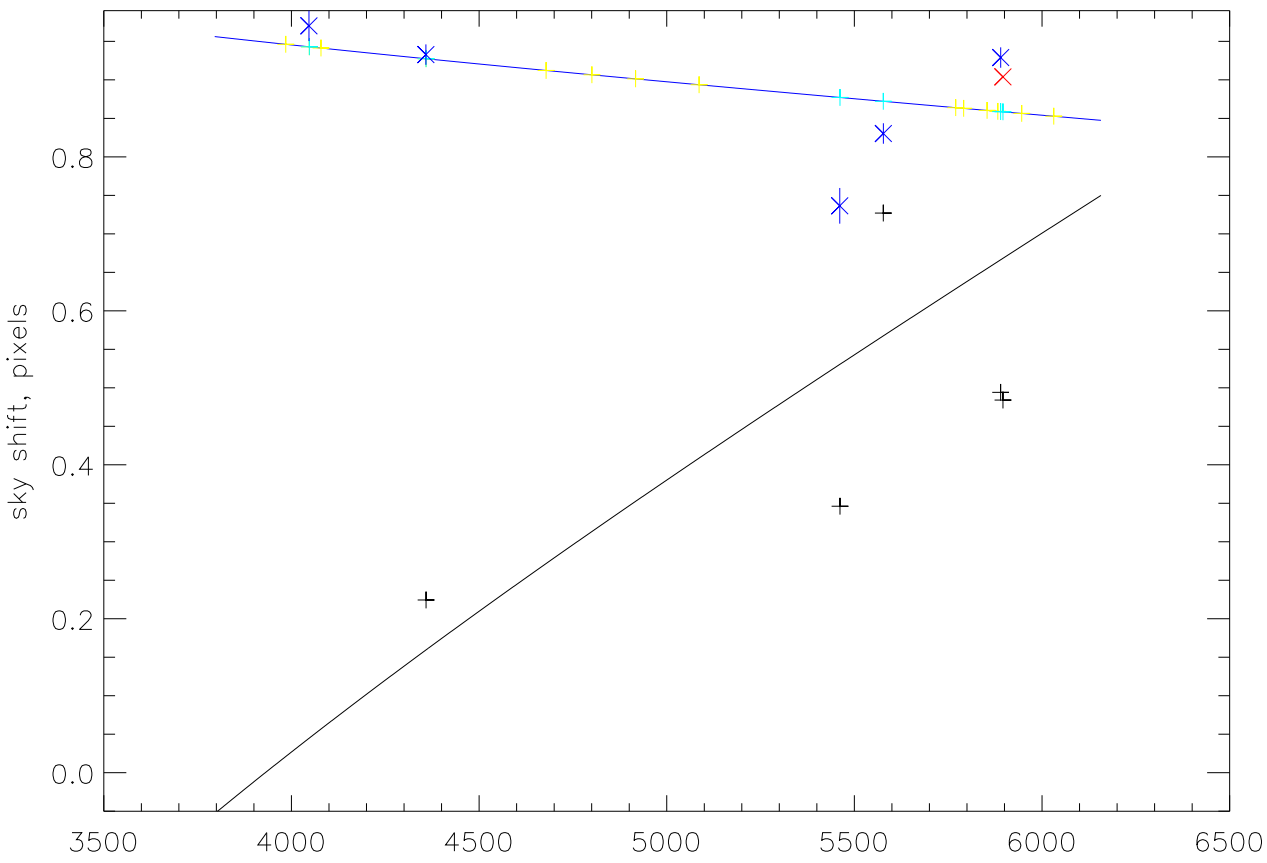

5460.9400
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

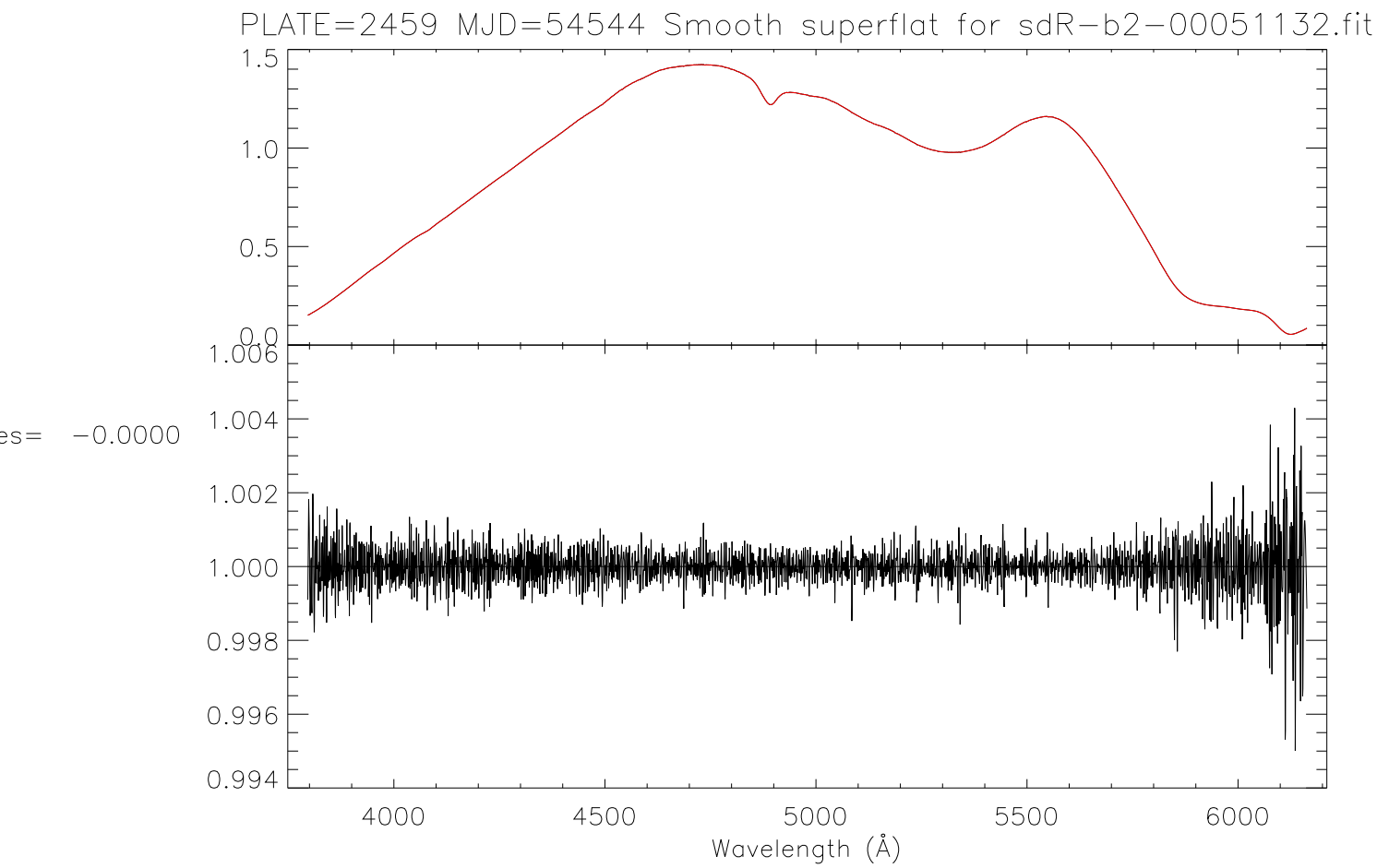

5577.3390
meas − arc
0.9
0.8
0.7
0.6
0.5
0.4
0
100
200
300
400


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

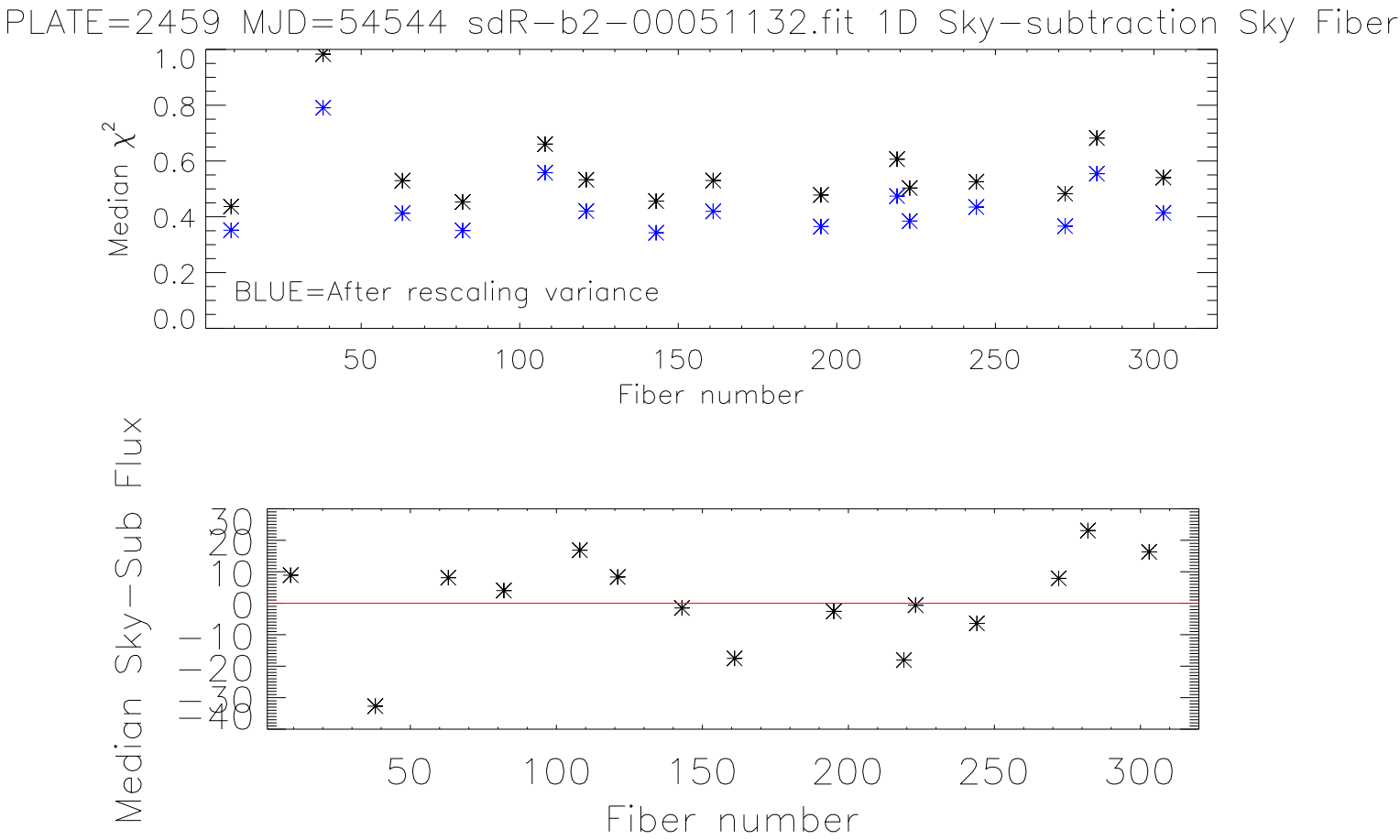

5895.9240
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

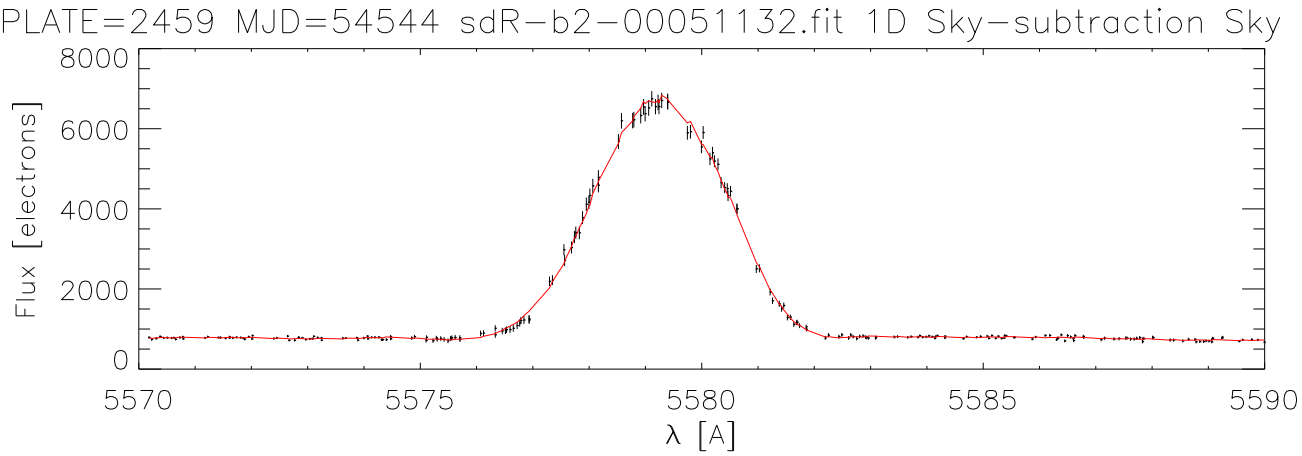

4046.5600
nfib1 16
nfib2 16
stdev 0.037
extra 0.97
4358.3300
nfib1 16
nfib2 16
stdev 0.021
extra 0.93
5460.9400
nfib1 16
nfib2 16
stdev 0.033
extra 0.74
5577.3390
nfib1 16
nfib2 16
stdev 0.021
extra 0.83
5889.9500
nfib1 16
nfib2 16
stdev 0.039
extra 0.93
5895.9240
nfib1 16
nfib2 16
stdev 0.045
extra 0.90
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

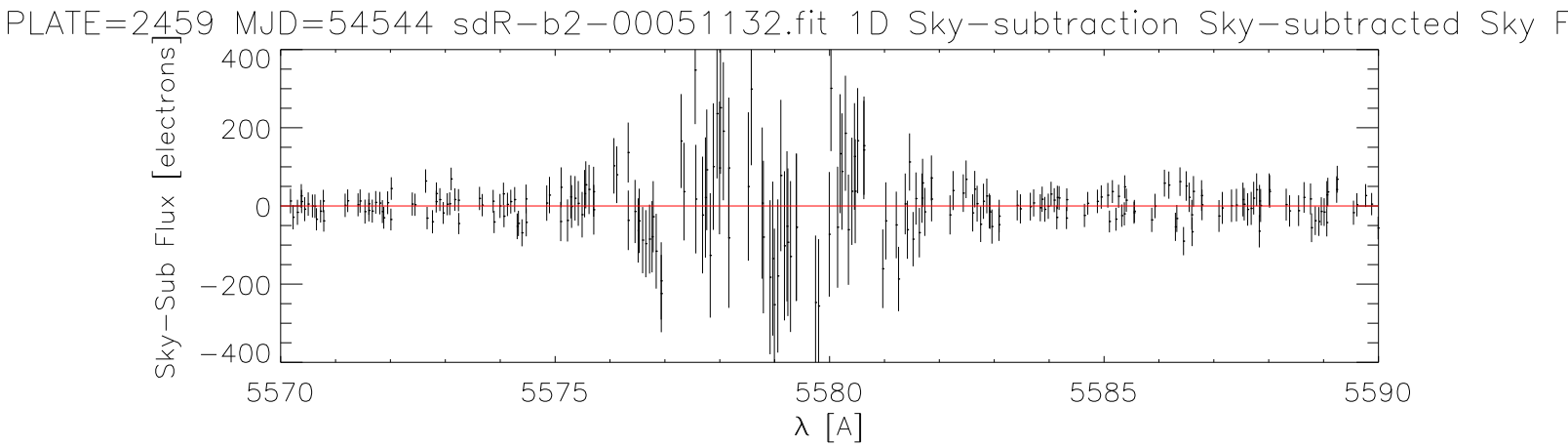

sky shift, pixels
0.0
0.2
0.4
0.6
0.8
3500
4000
4500
5000
5500
6000
6500

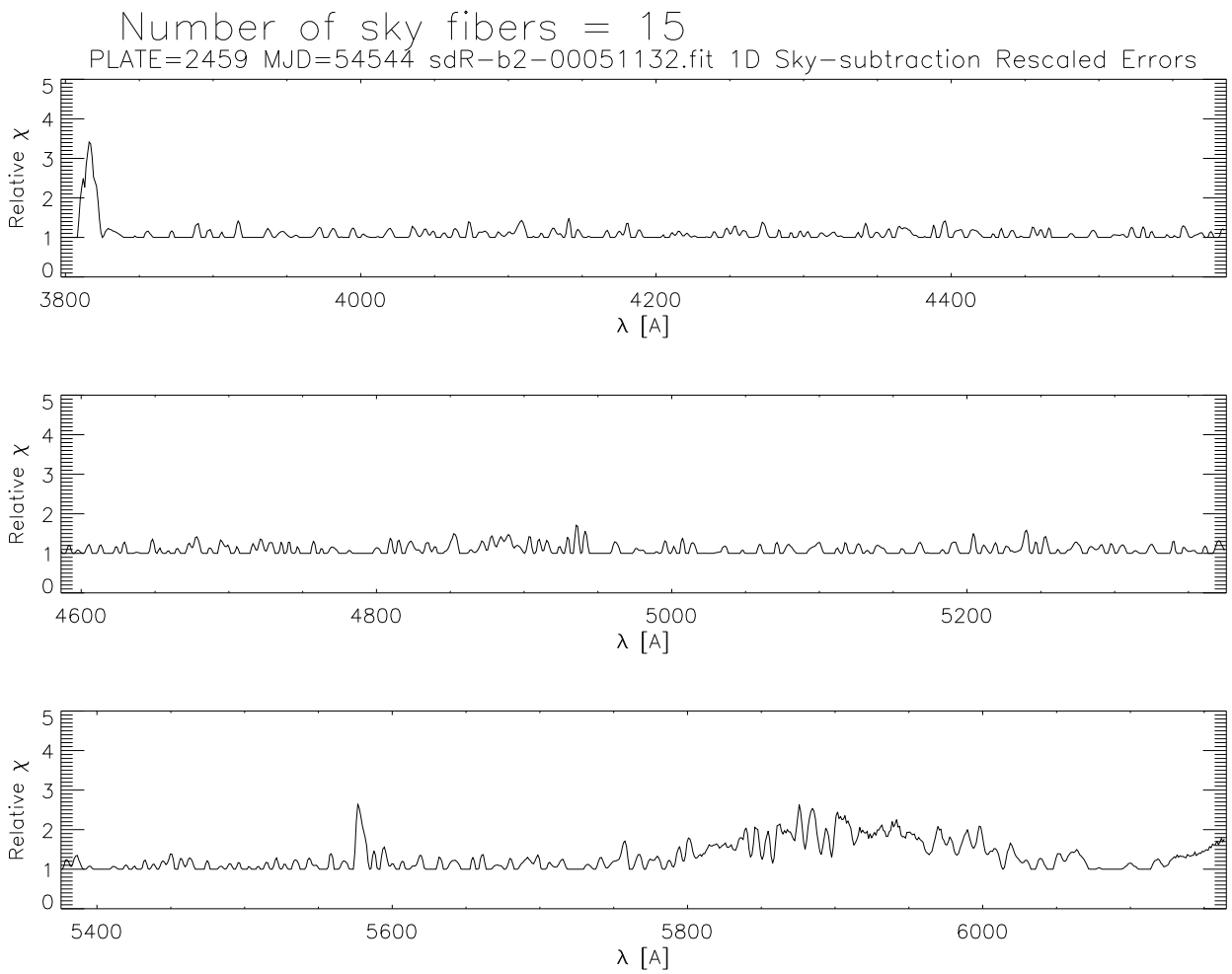

PLATE=2459 MJD=54544 Smooth superflat for sdR-b2-00051132.fit
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
4000
4500
5000
5500
6000
Wavelength (Å)

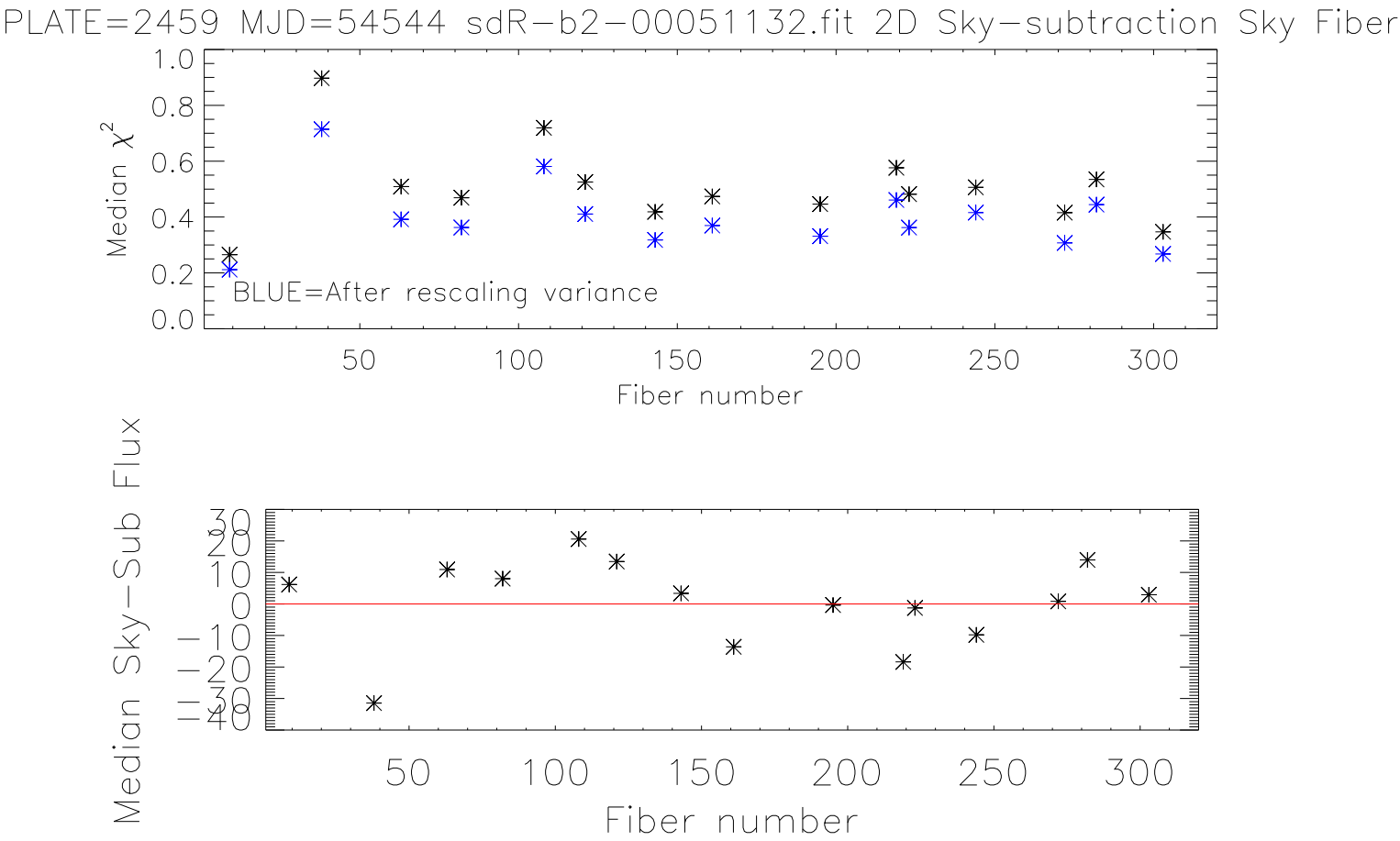
es= −0.0000

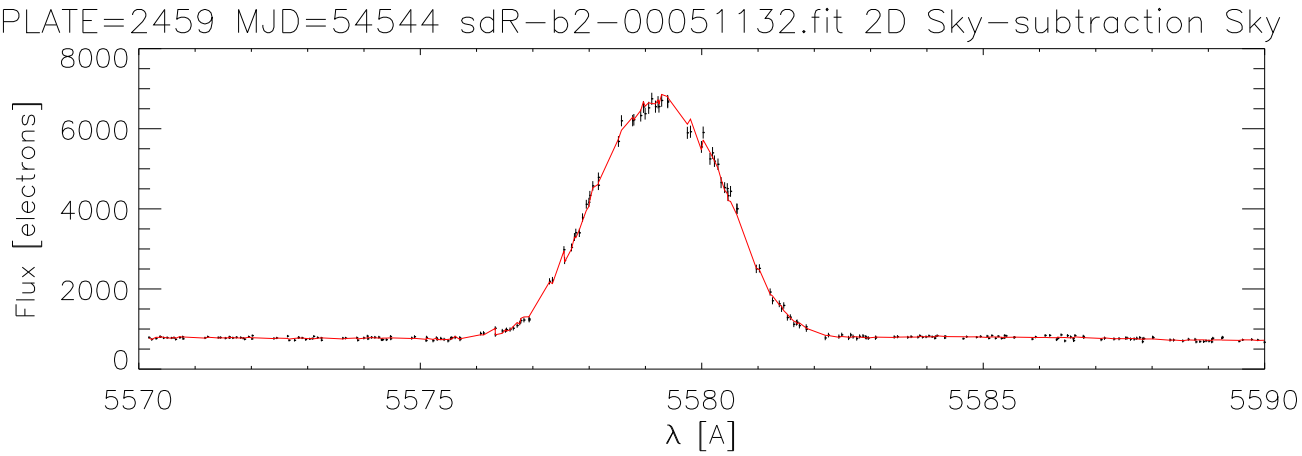

PLATE=2459 MJD=54544 sdR-b2-00051132.fit 1D Sky-subtraction Sky Fiber
Median χ^2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
30
20
10
0
-10
-20
-30
-40
50
100
150
200
250
300
Fiber number

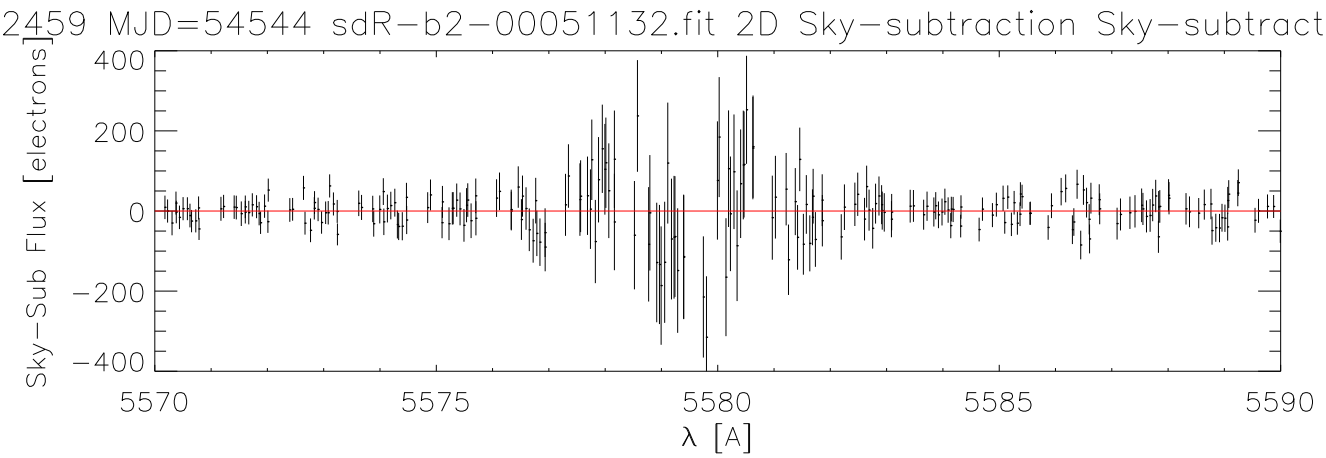

PLATE=2459 MJD=54544 sdR-b2-00051132.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

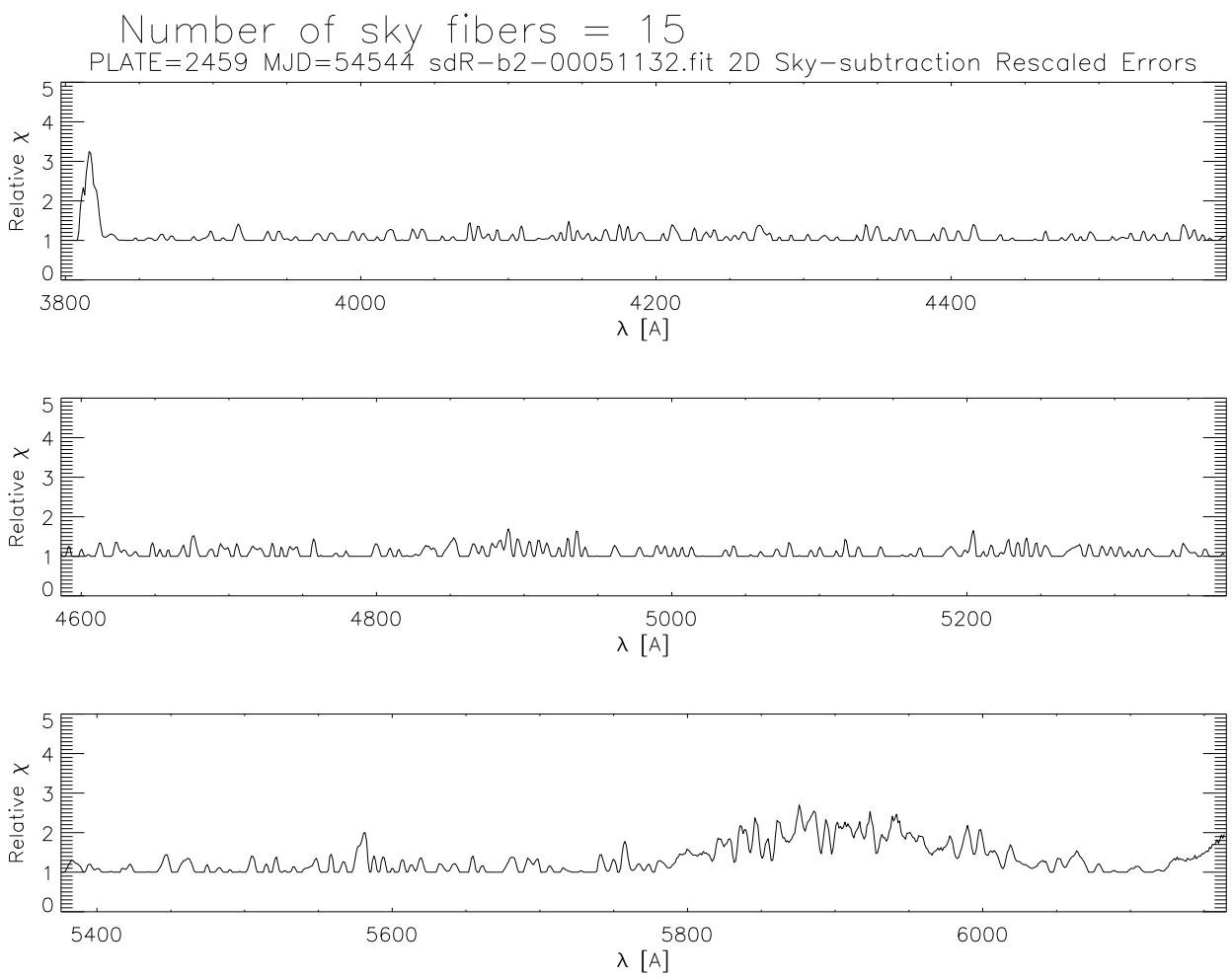

PLATE=2459 MJD=54544 sdR-b2-00051132.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

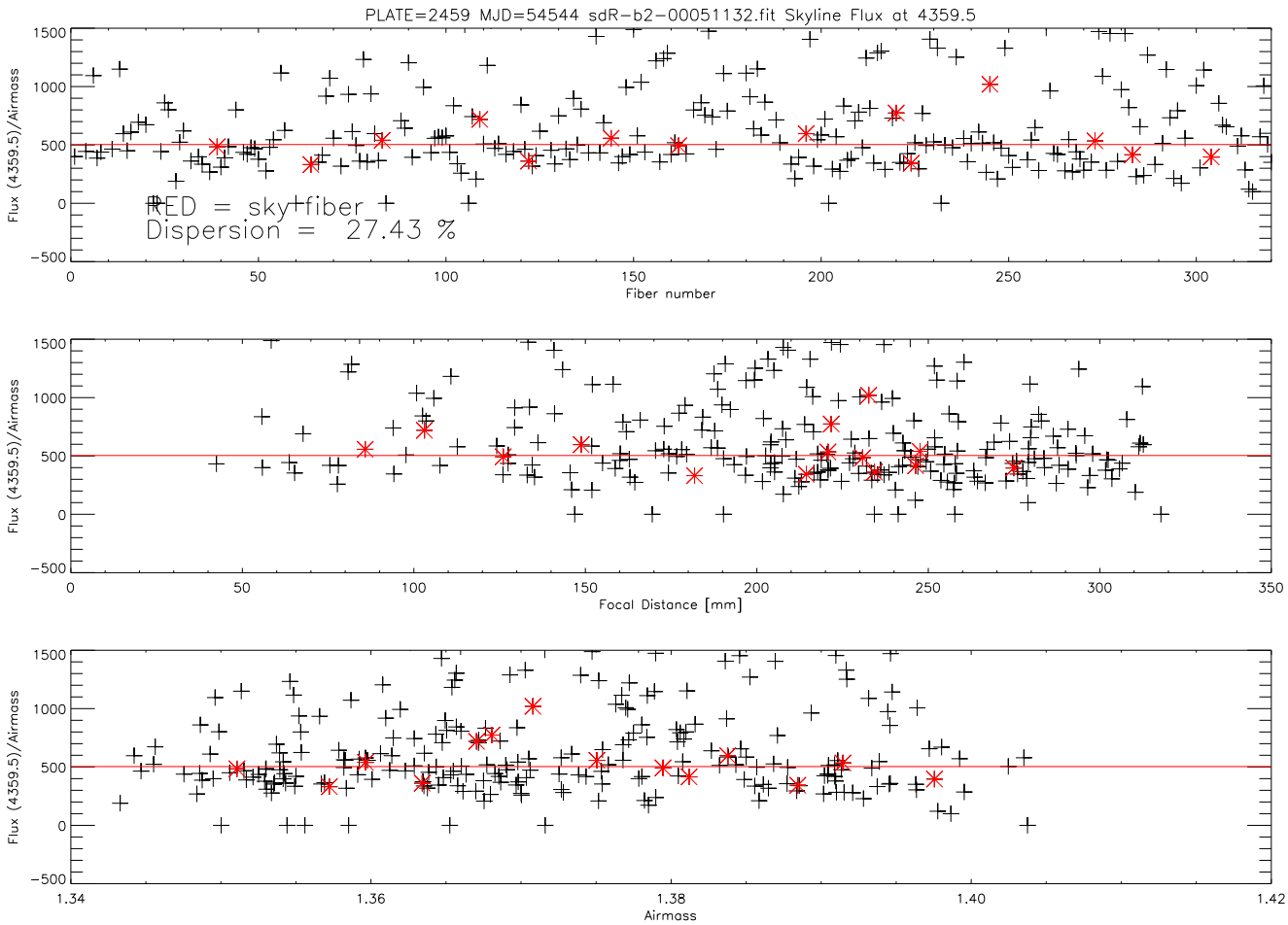

Number of sky fibers = 15
PLATE=2459 MJD=54544 sdR-b2-00051132.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

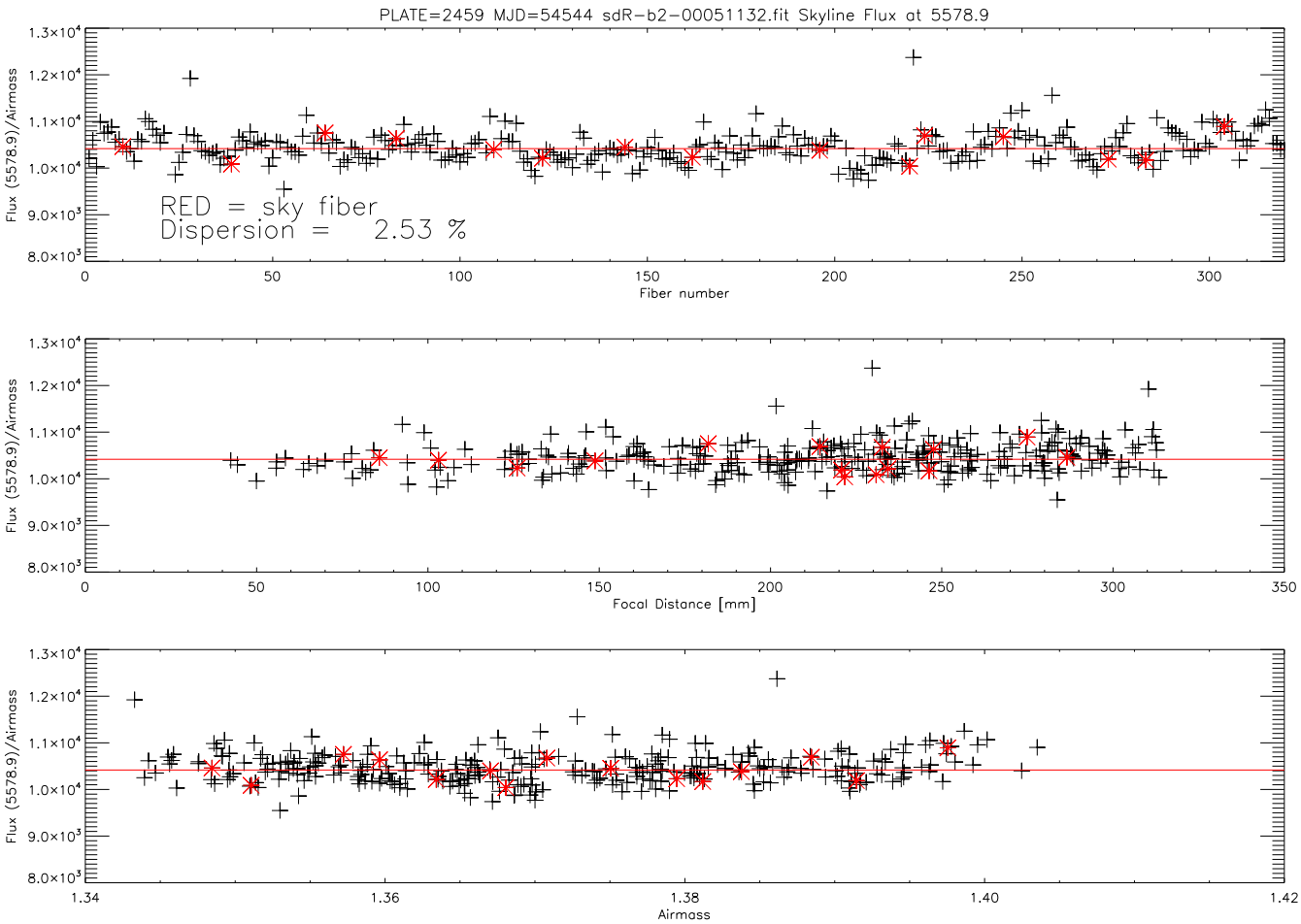

PLATE=2459 MJD=54544 sdR-b2-00051132.fit 2D Sky-subtraction Sky Fiber
Median χ^2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
30
20
10
0
-10
-20
-30
-40
50
100
150
200
250
300
Fiber number

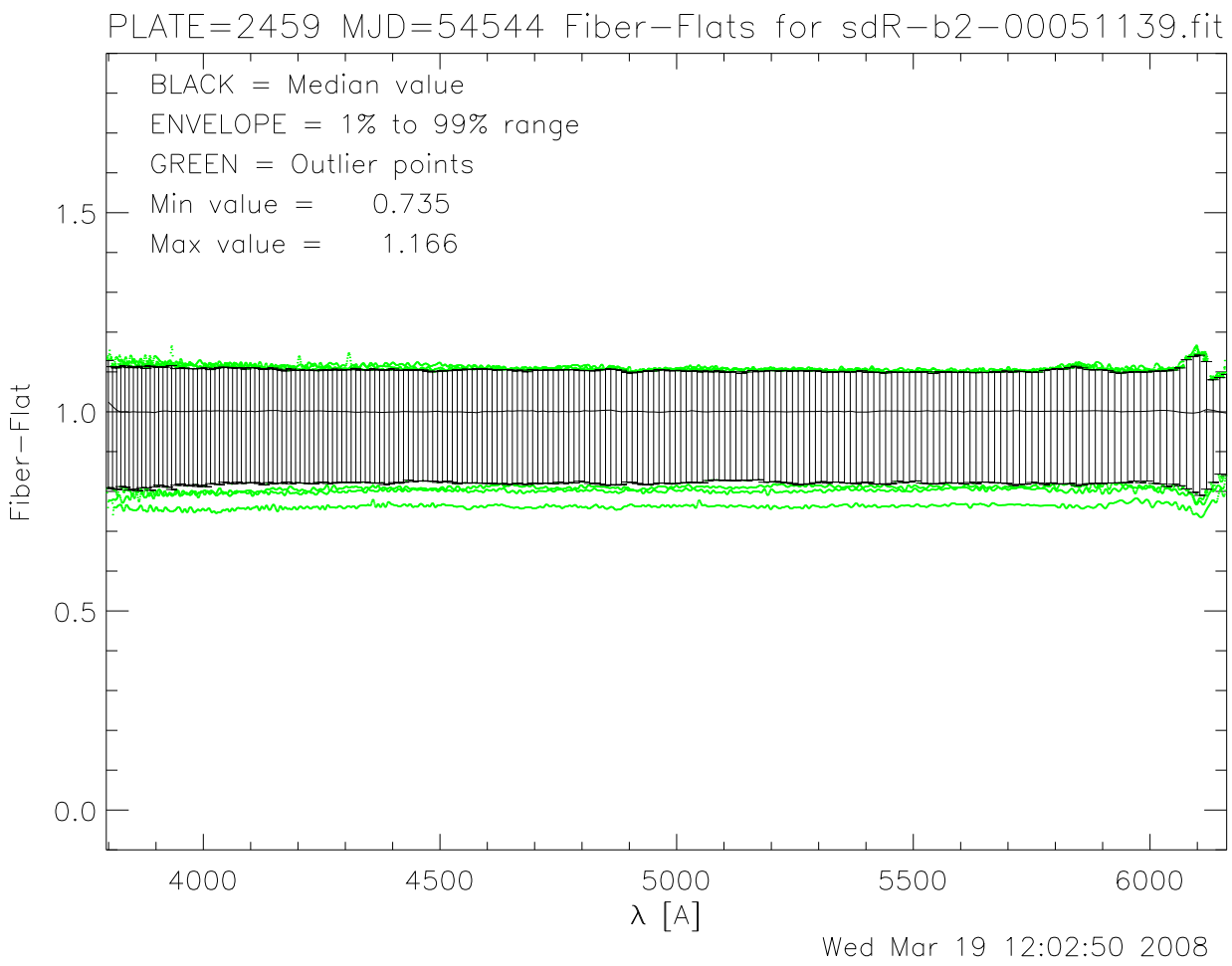

PLATE=2459 MJD=54544 sdR-b2-00051132.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

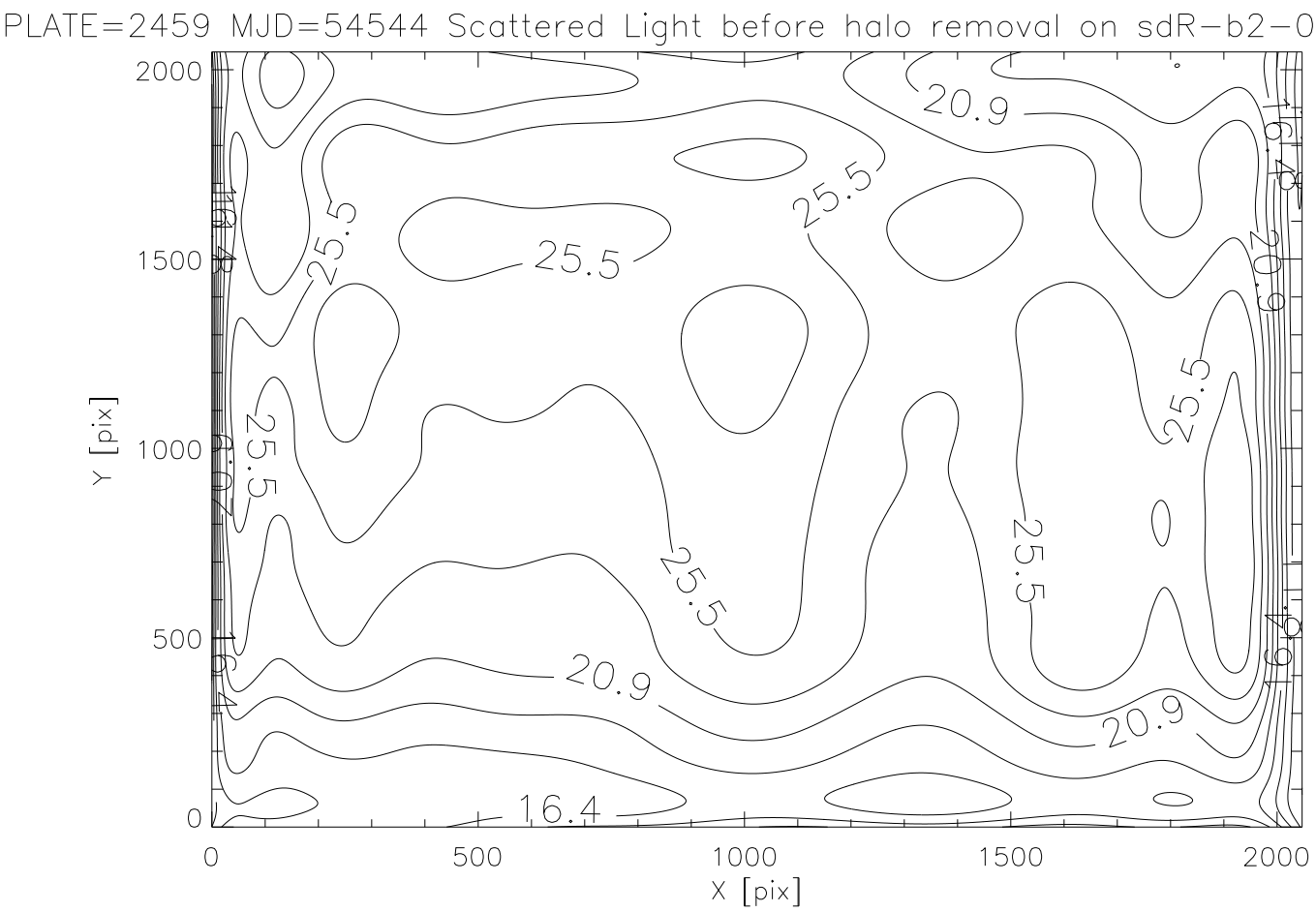

PLATE=2459 MJD=54544 sdR-b2-00051132.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

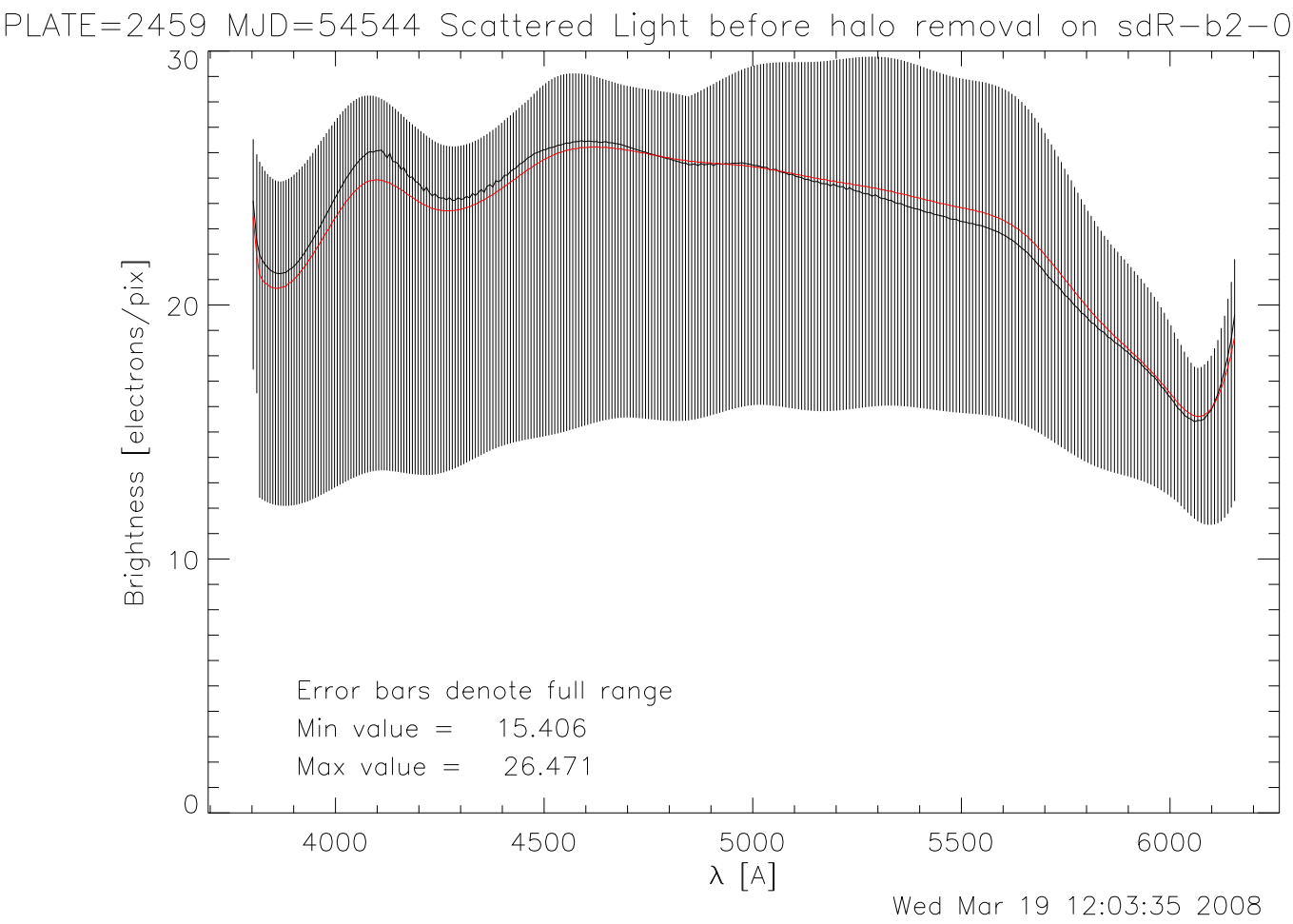

Number of sky fibers = 15
PLATE=2459 MJD=54544 sdR-b2-00051132.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

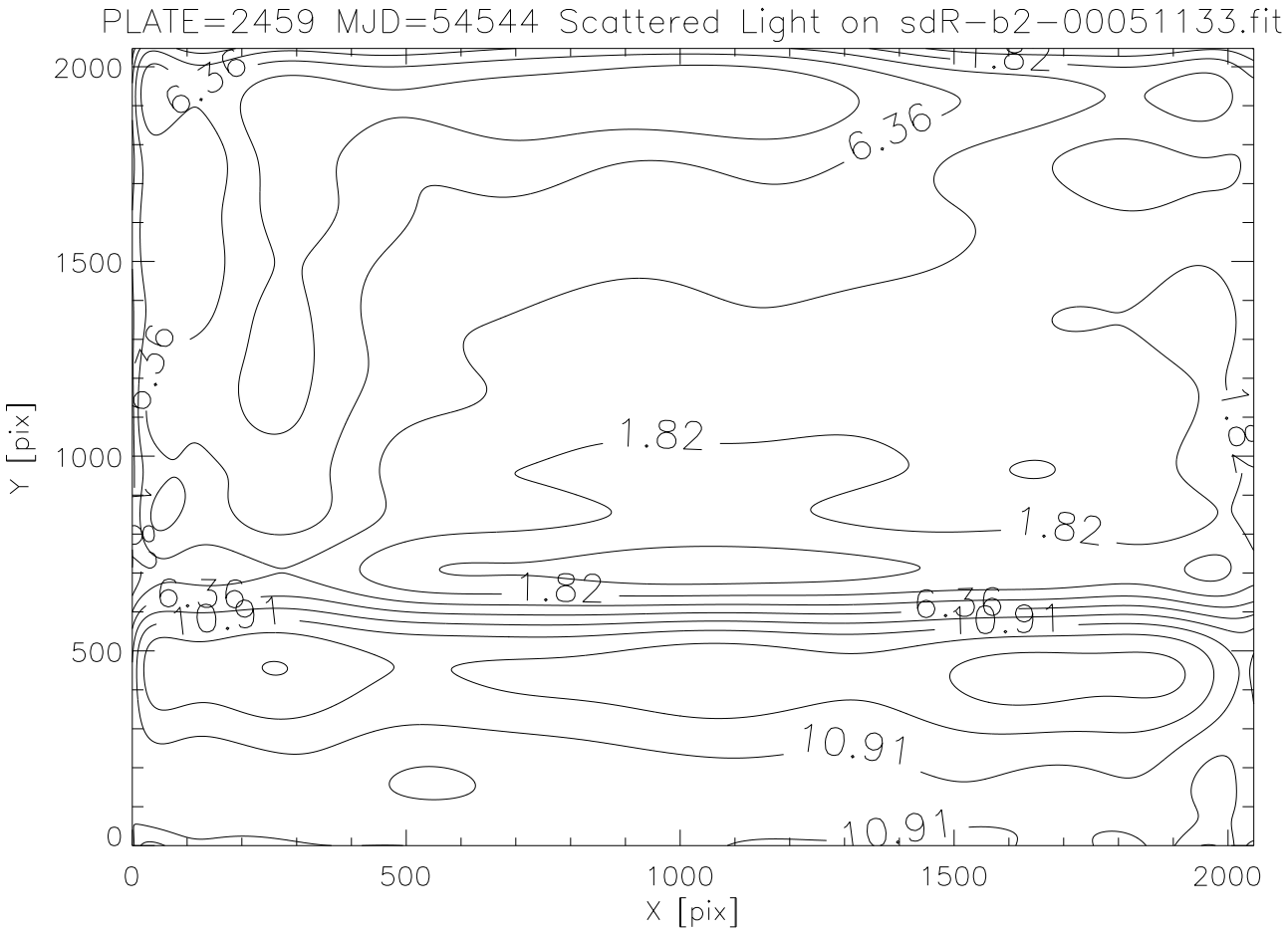

PLATE=2459 MJD=54544 sdR-b2-00051132.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 27.43 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

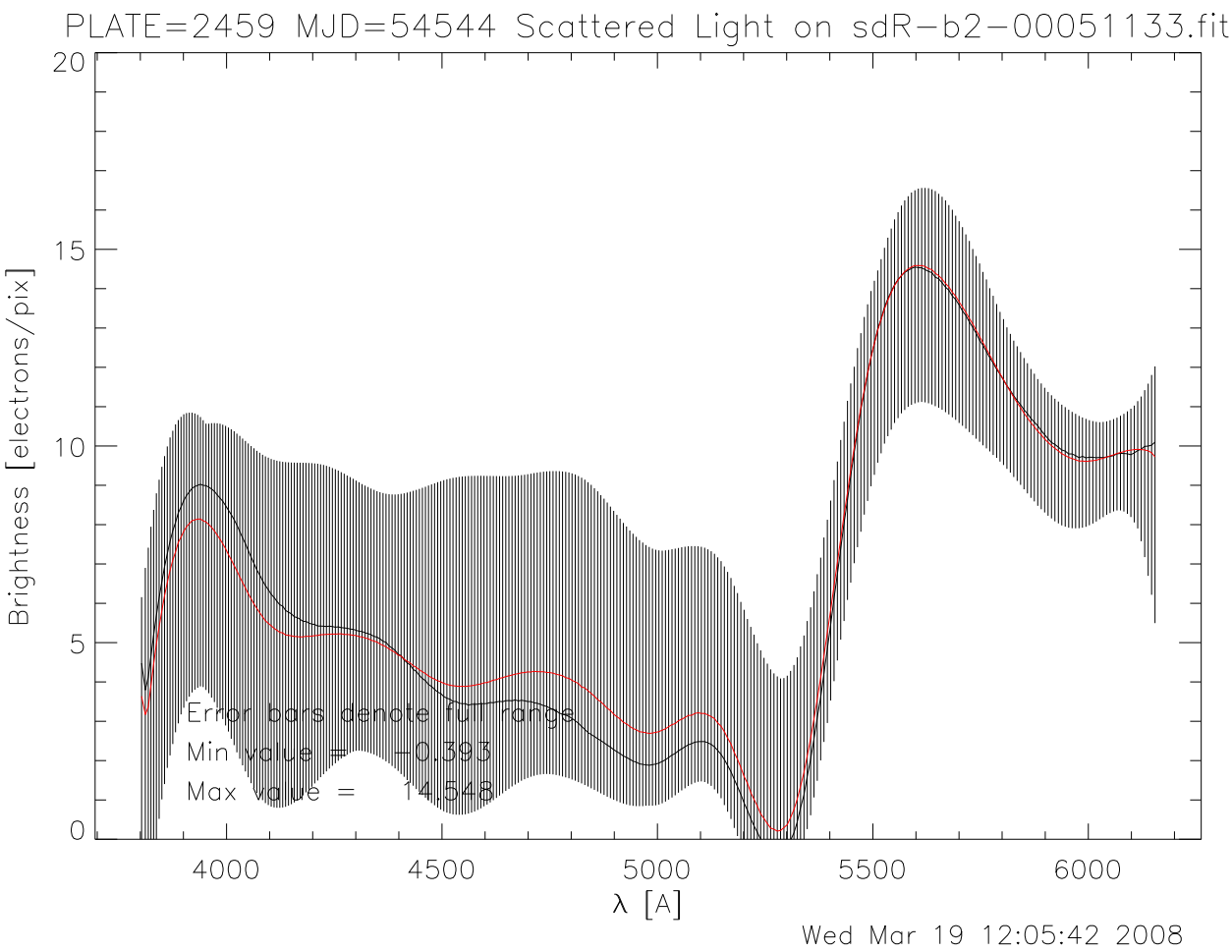

PLATE=2459 MJD=54544 sdR-b2-00051132.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.53 %
Fiber number
Focal Distance [mm]
Airmass

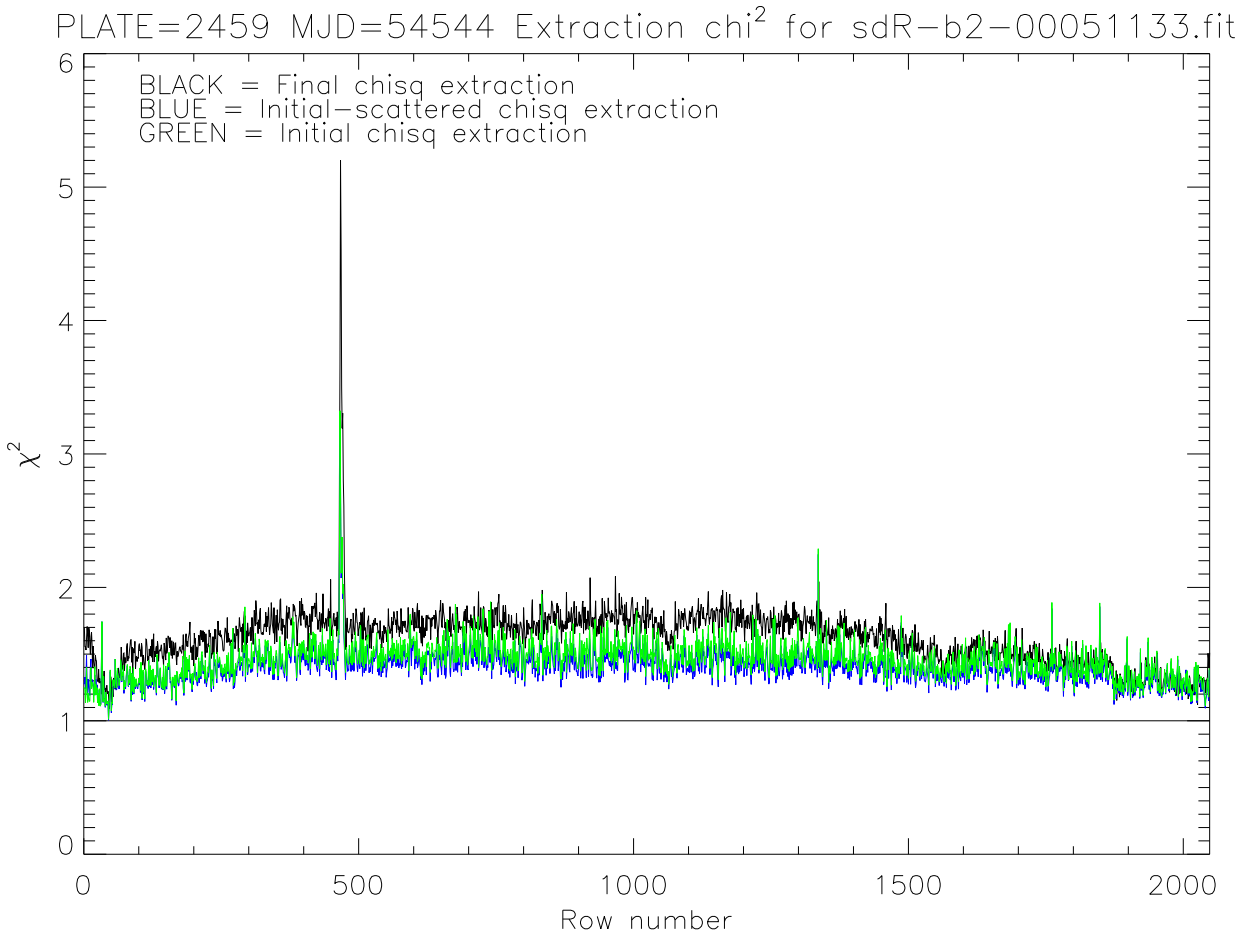

PLATE=2459 MJD=54544 Fiber-Flats for sdR-b2-00051139.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.735
Max value = 1.166
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 19 12:02:50 2008

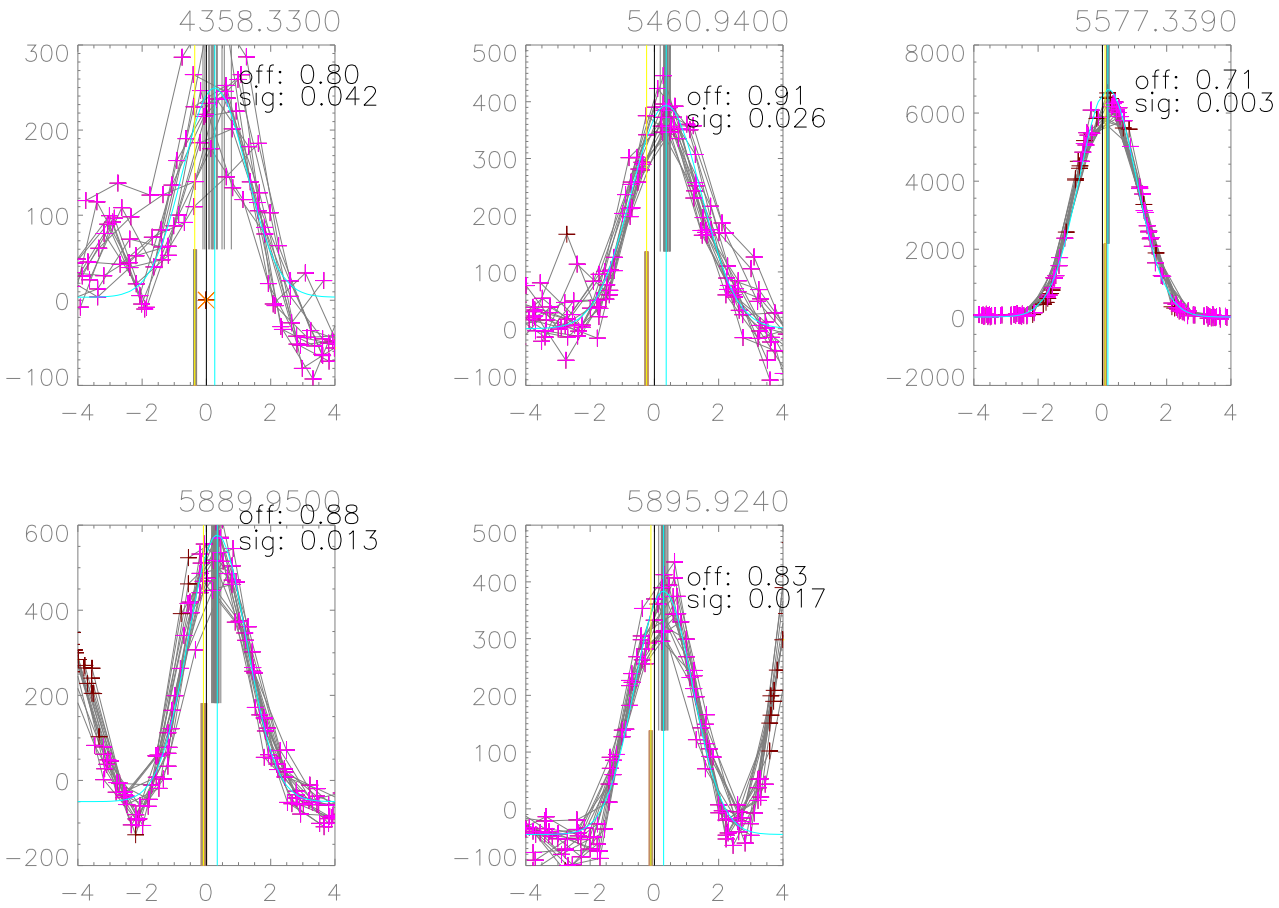

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR−b2−00051133.f
Y [pix]
X [pix]
0
500
1000
1500
2000
25.5
20.9
16.4

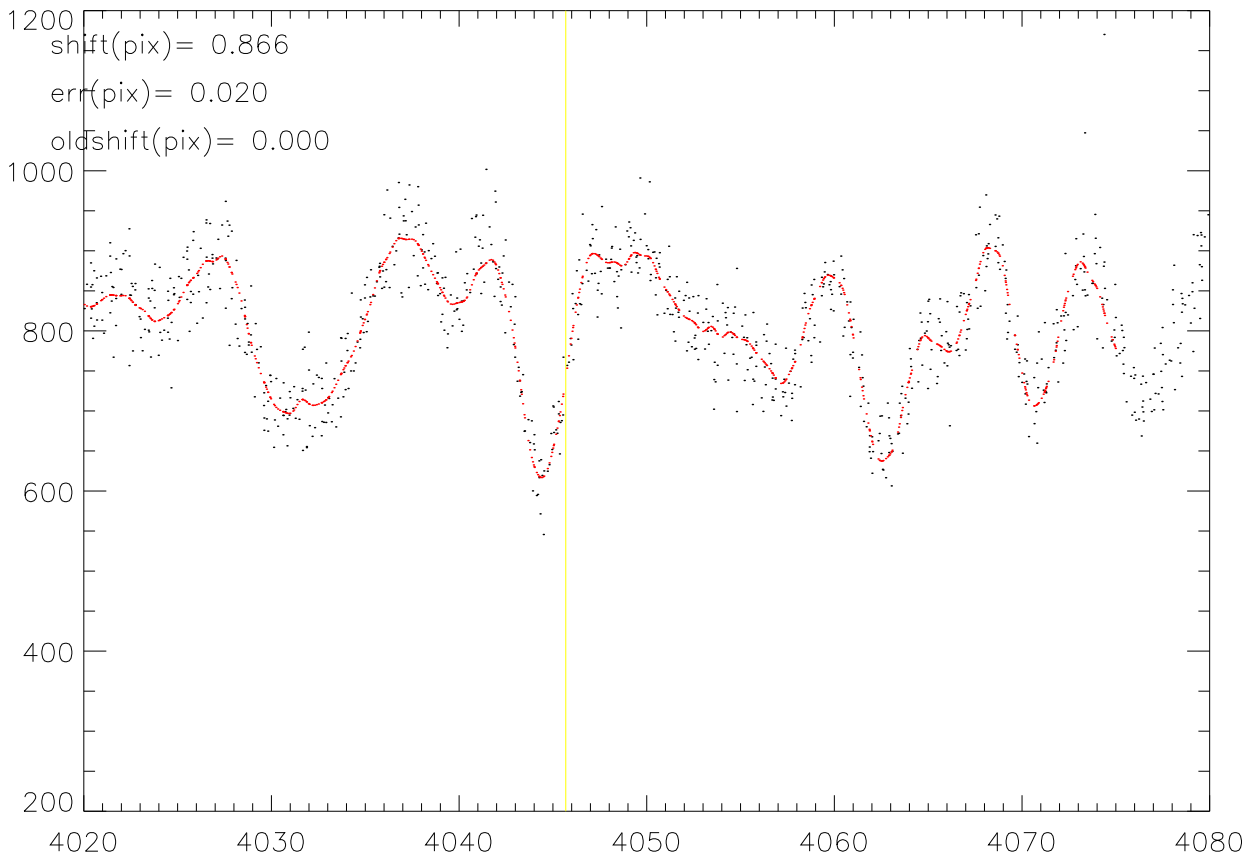

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-b2-00051133.f
Brightness [electrons/pix]
30
20
10
0
Error bars denote full range
Min value = 15.406
Max value = 26.471
4000
4500
5000
5500
6000
λ [A]
Wed Mar 19 12:03:35 2008

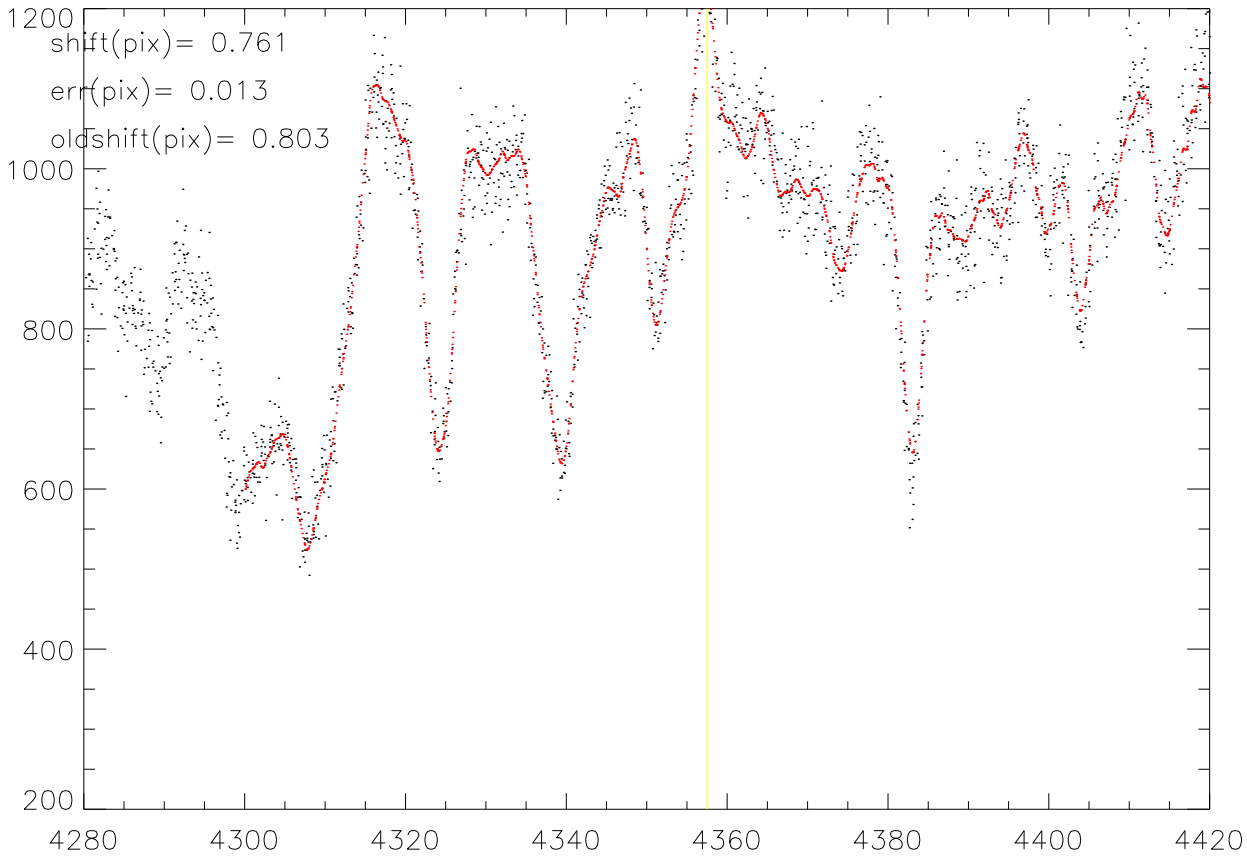

PLATE=2459 MJD=54544 Scattered Light on sdR-b2-00051133.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
1.82
6.36
10.91

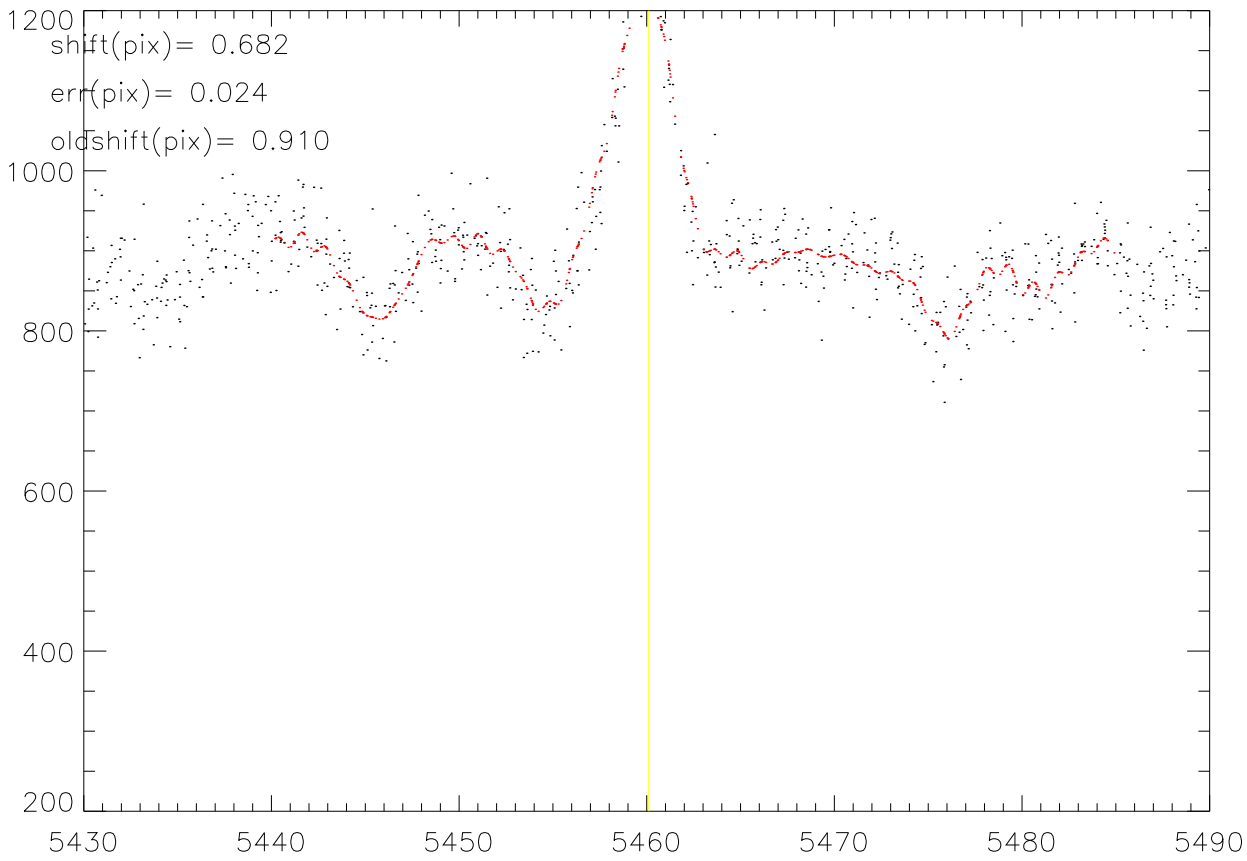

PLATE=2459 MJD=54544 Scattered Light on sdR-b2-00051133.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = -0.393
Max value = 14.548
Wed Mar 19 12:05:42 2008

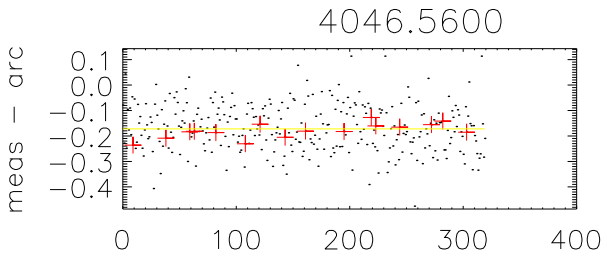

PLATE=2459 MJD=54544 Extraction chi^2 for sdR-b2-00051133.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

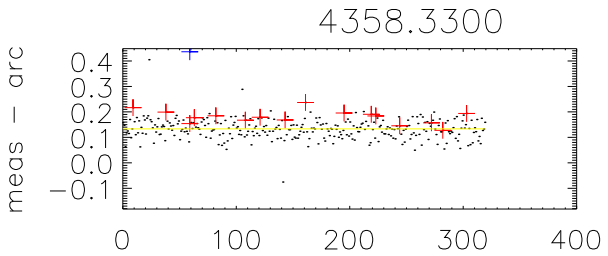

4358.3300
off: 0.80
sig: 0.042
5460.9400
off: 0.91
sig: 0.026
5577.3390
off: 0.71
sig: 0.003
5889.9500
off: 0.88
sig: 0.013
5895.9240
off: 0.83
sig: 0.017

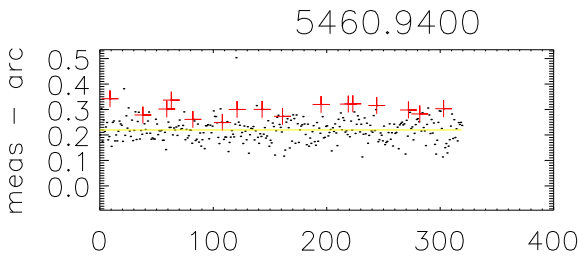

shift(pix)= 0.866
err(pix)= 0.020
oldshift(pix)= 0.000
1200
1000
800
600
400
200
4020
4030
4040
4050
4060
4070
4080

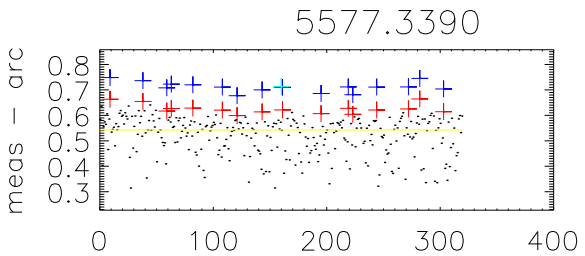

shift(pix)= 0.761
err(pix)= 0.013
oldshift(pix)= 0.803
1200
1000
800
600
400
200
4280
4300
4320
4340
4360
4380
4400
4420

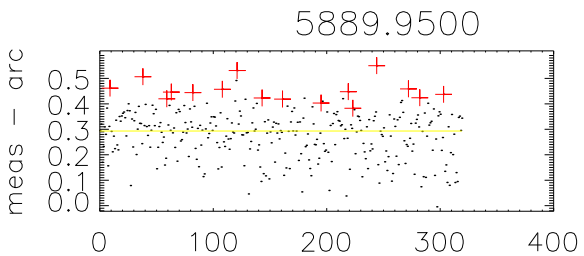

shift(pix)= 0.682
err(pix)= 0.024
oldshift(pix)= 0.910
1200
1000
800
600
400
200
5430
5440
5450
5460
5470
5480
5490

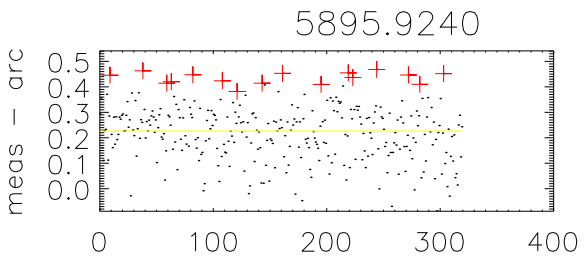

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

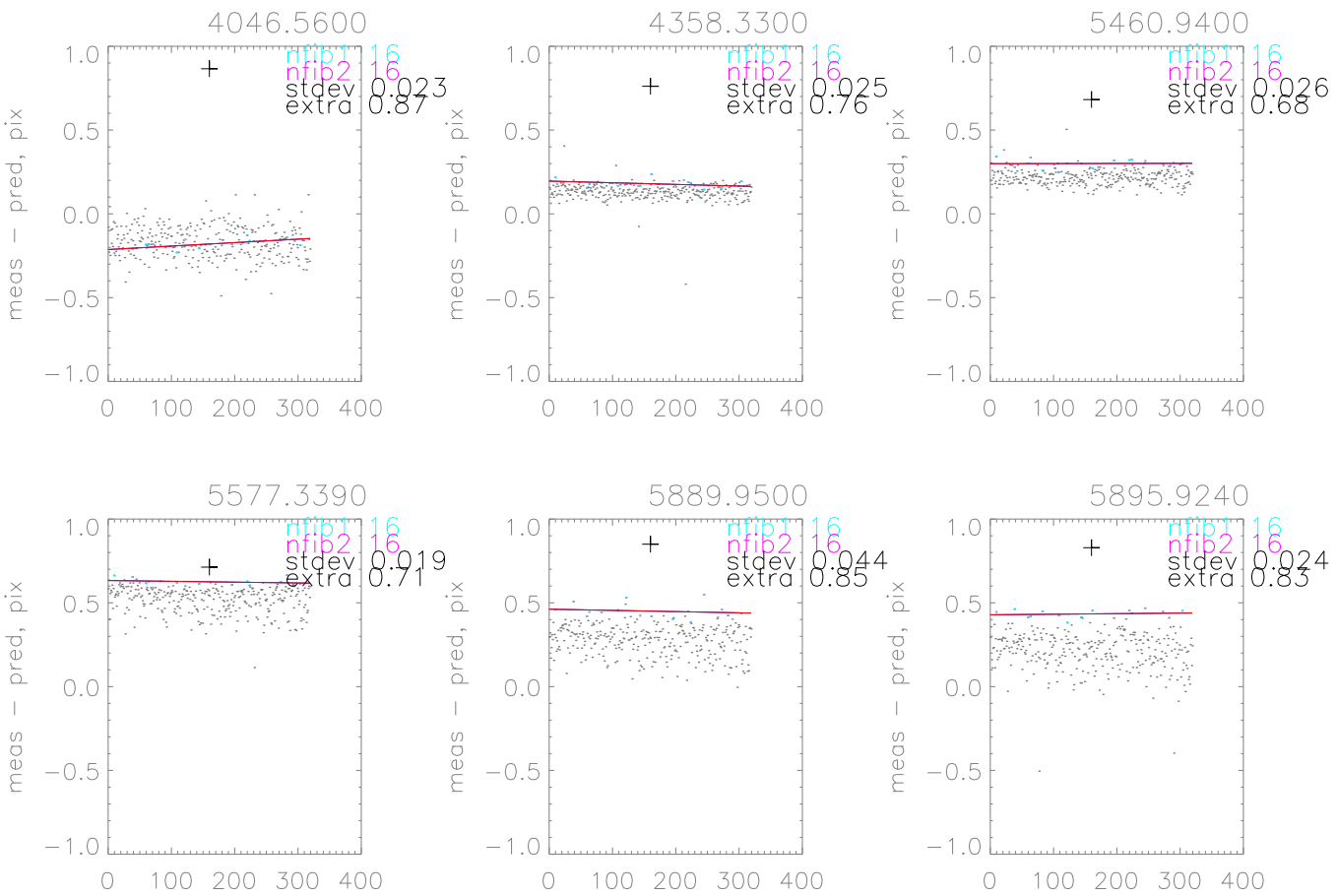

4358.3300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

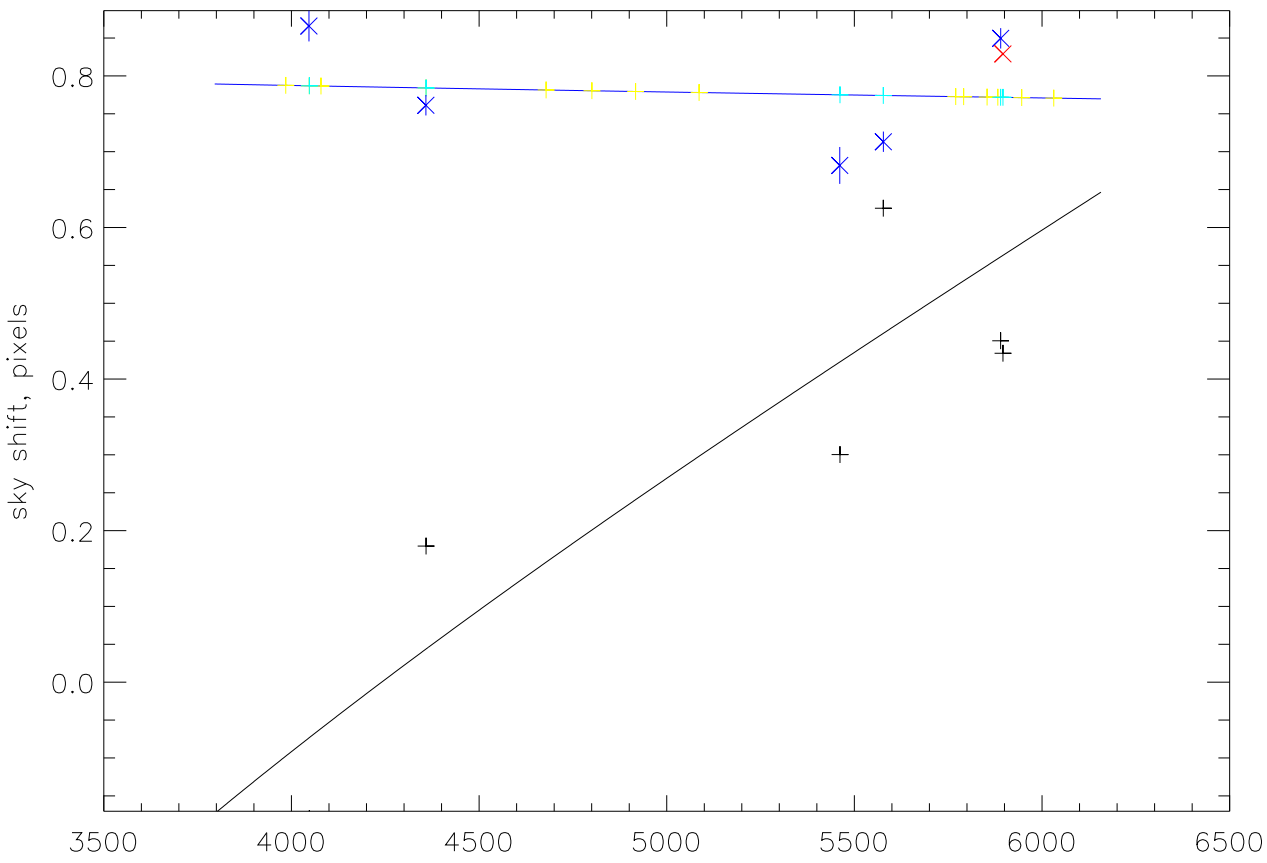

5460.9400
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

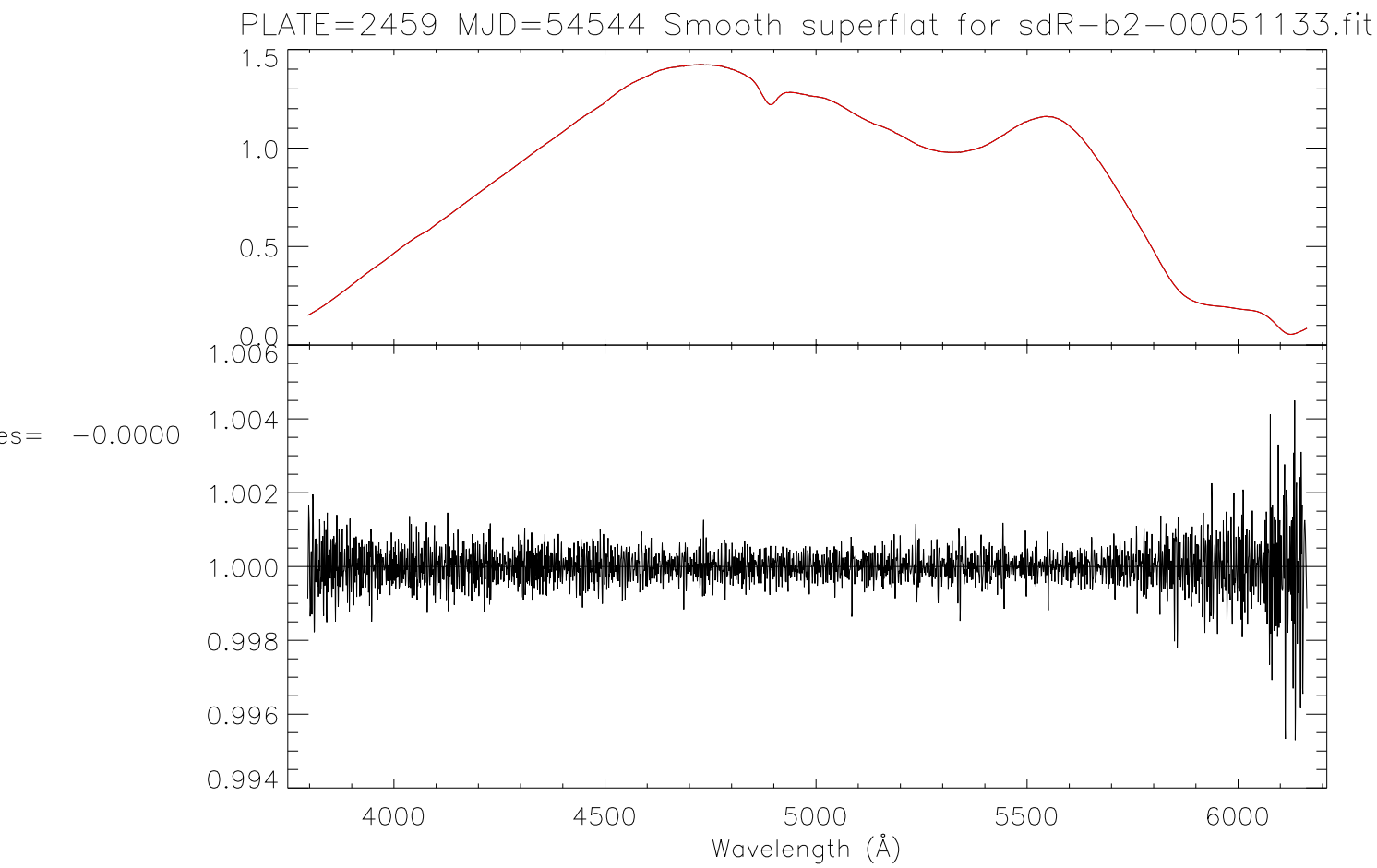

5577.3390
meas − arc
0.8
0.7
0.6
0.5
0.4
0.3
0
100
200
300
400


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

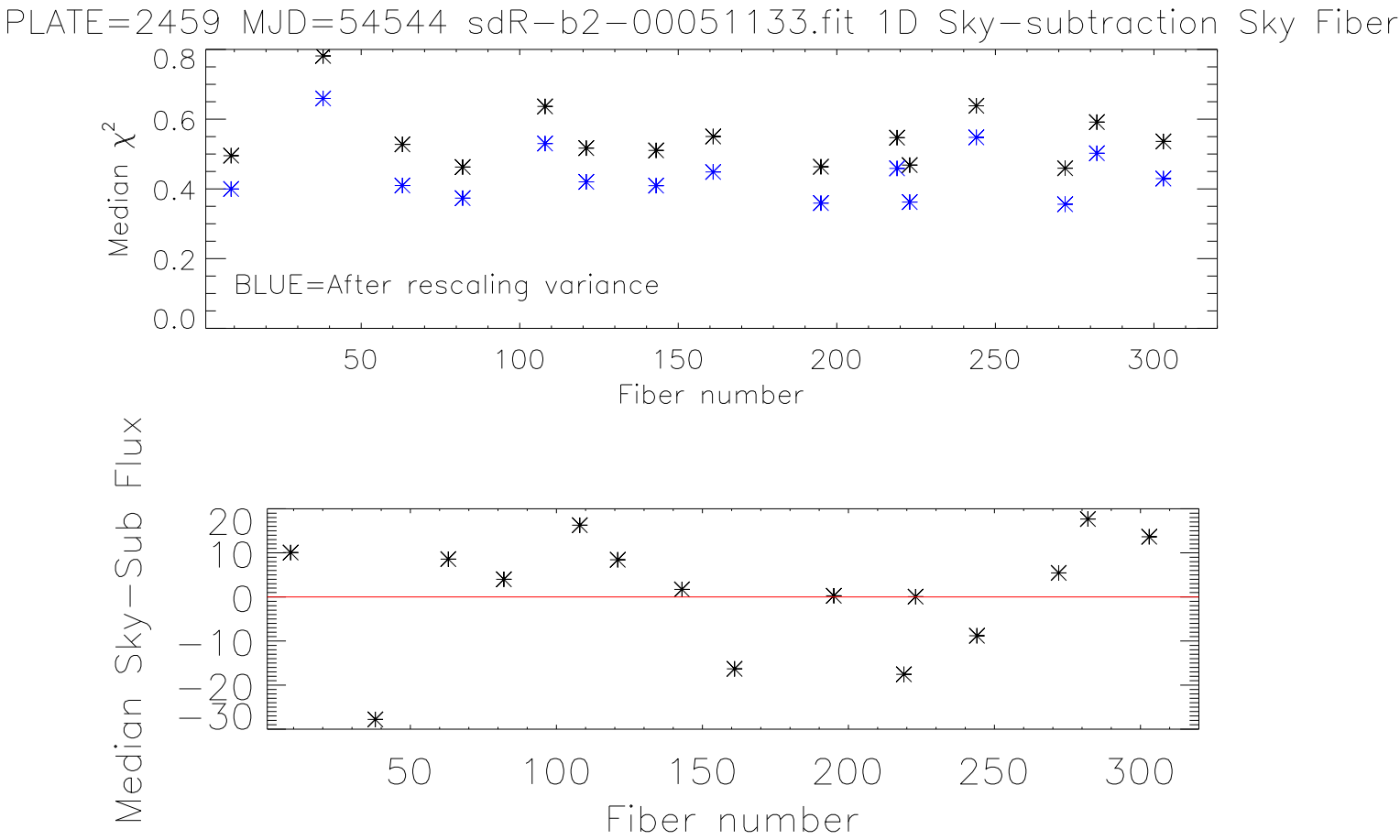

5895.9240
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

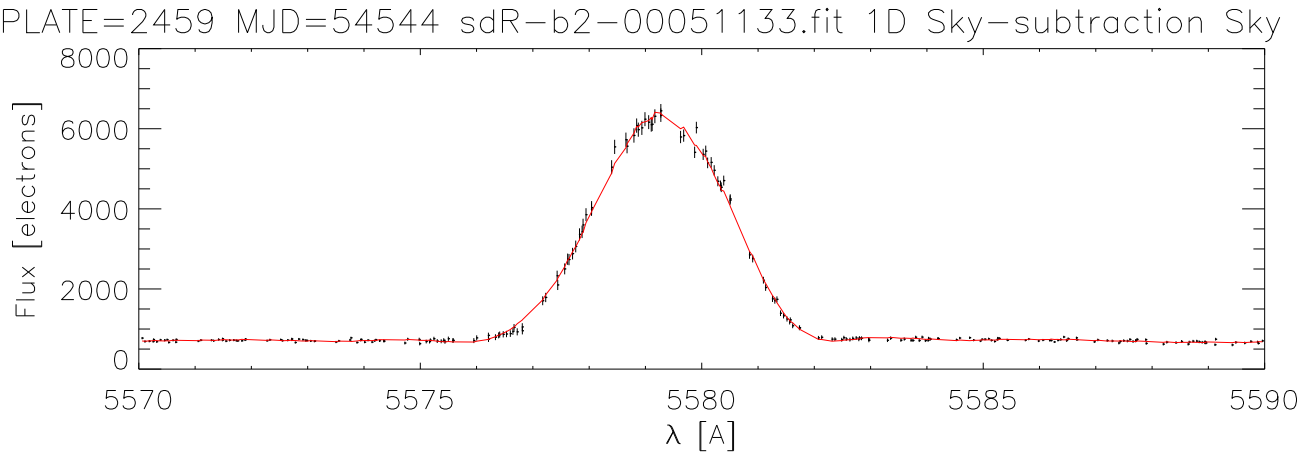

4046.5600
nfib1 16
nfib2 16
stdev 0.023
extra 0.87
4358.3300
nfib1 16
nfib2 16
stdev 0.025
extra 0.76
5460.9400
nfib1 16
nfib2 16
stdev 0.026
extra 0.68
5577.3390
nfib1 16
nfib2 16
stdev 0.019
extra 0.71
5889.9500
nfib1 16
nfib2 16
stdev 0.044
extra 0.85
5895.9240
nfib1 16
nfib2 16
stdev 0.024
extra 0.83
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

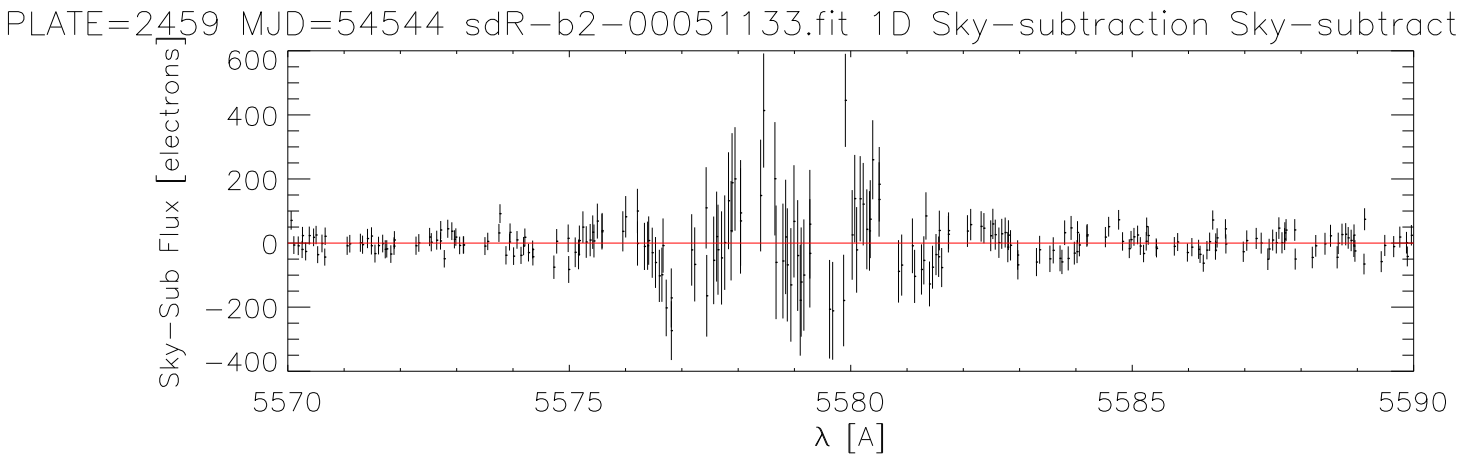

sky shift, pixels
0.8
0.6
0.4
0.2
0.0
3500
4000
4500
5000
5500
6000
6500

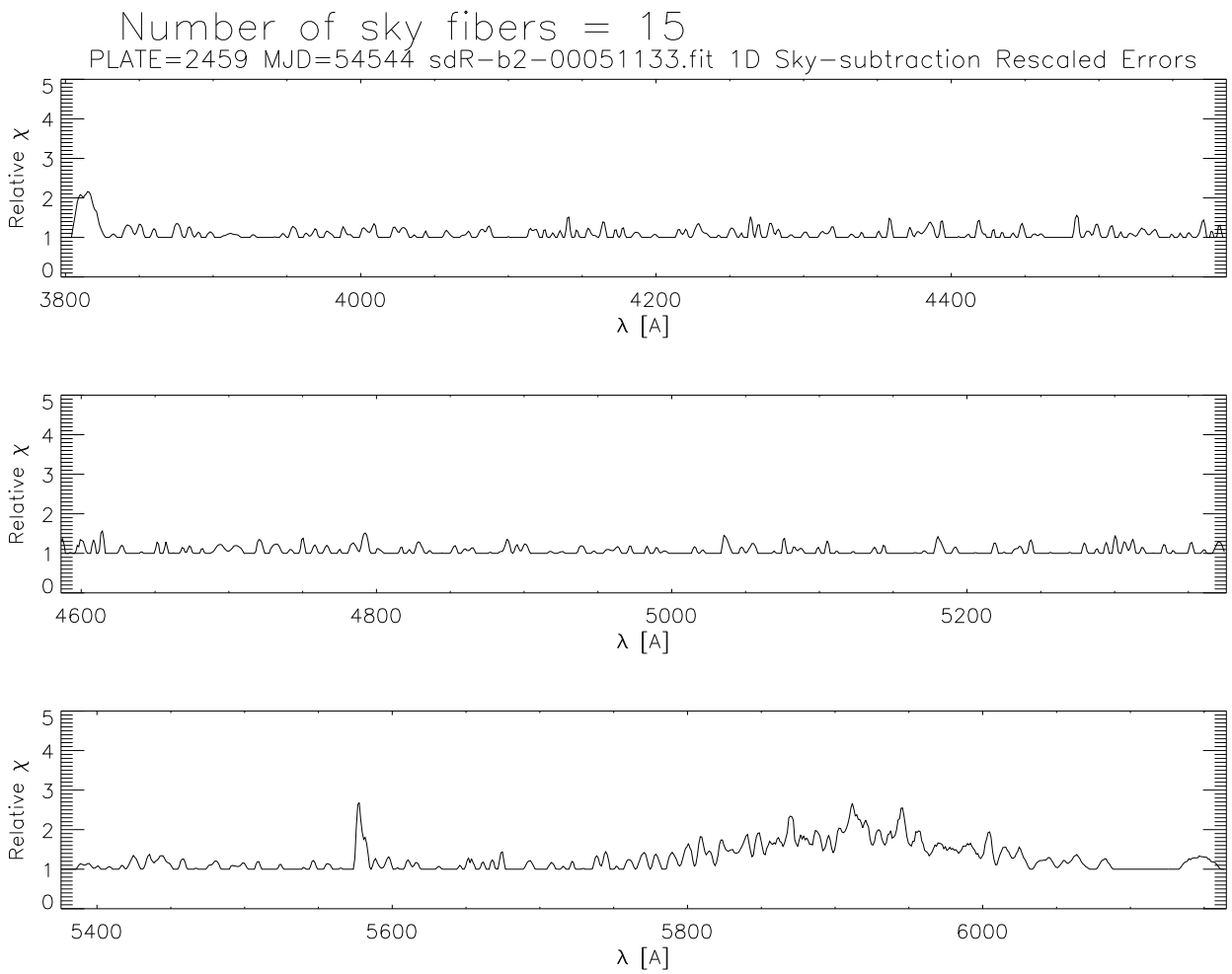

PLATE=2459 MJD=54544 Smooth superflat for sdR-b2-00051133.fit
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
4000
4500
5000
5500
6000
Wavelength (Å)

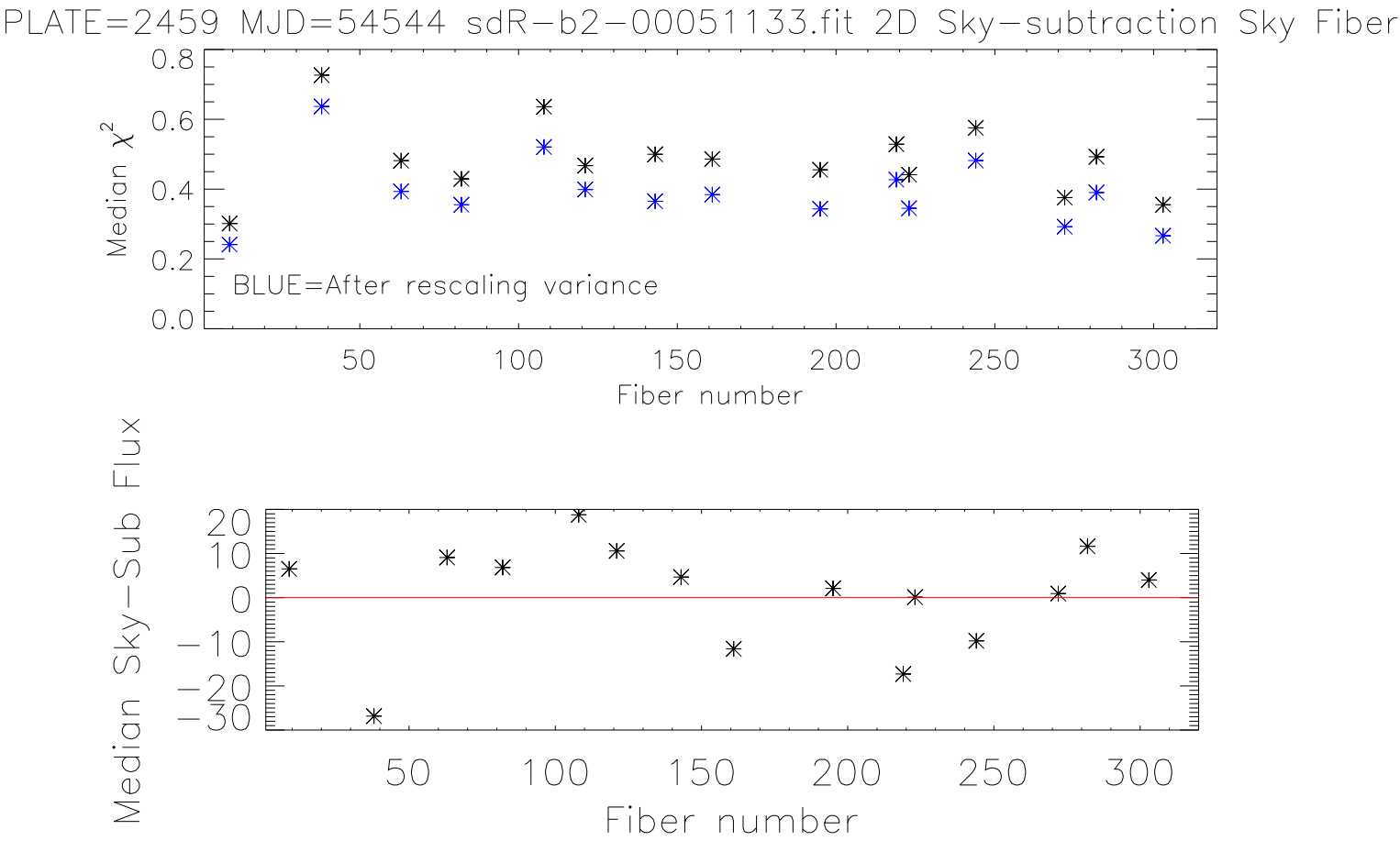
es= −0.0000

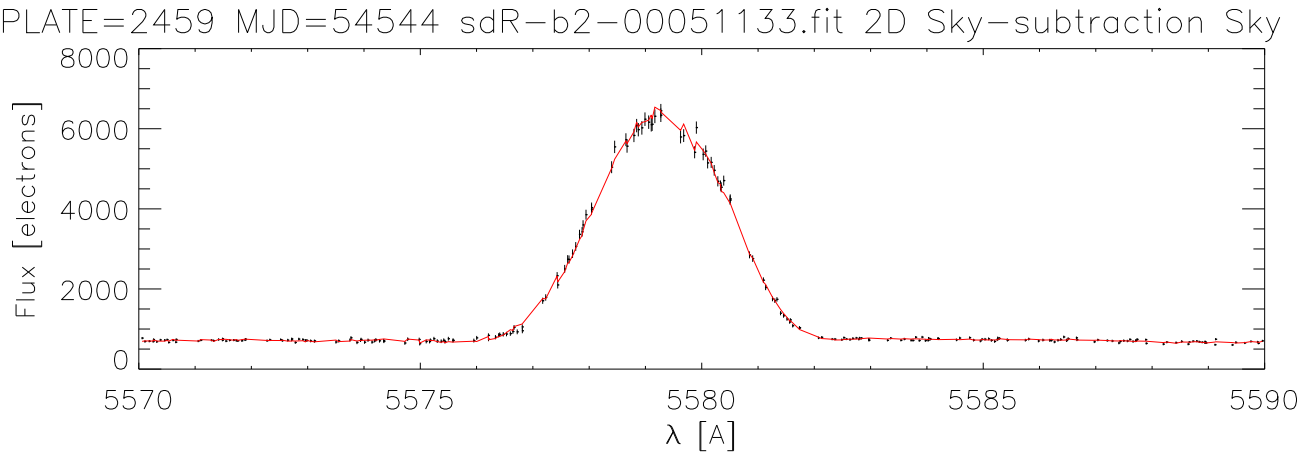

PLATE=2459 MJD=54544 sdR-b2-00051133.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
10
0
-10
-20
-30
50
100
150
200
250
300
Fiber number

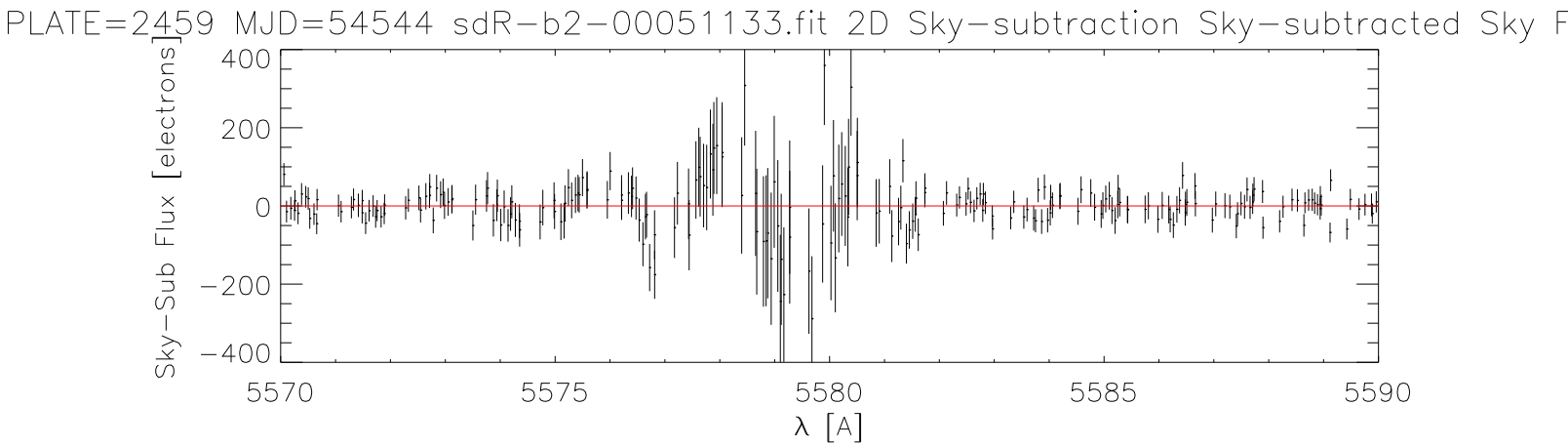

PLATE=2459 MJD=54544 sdR-b2-00051133.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

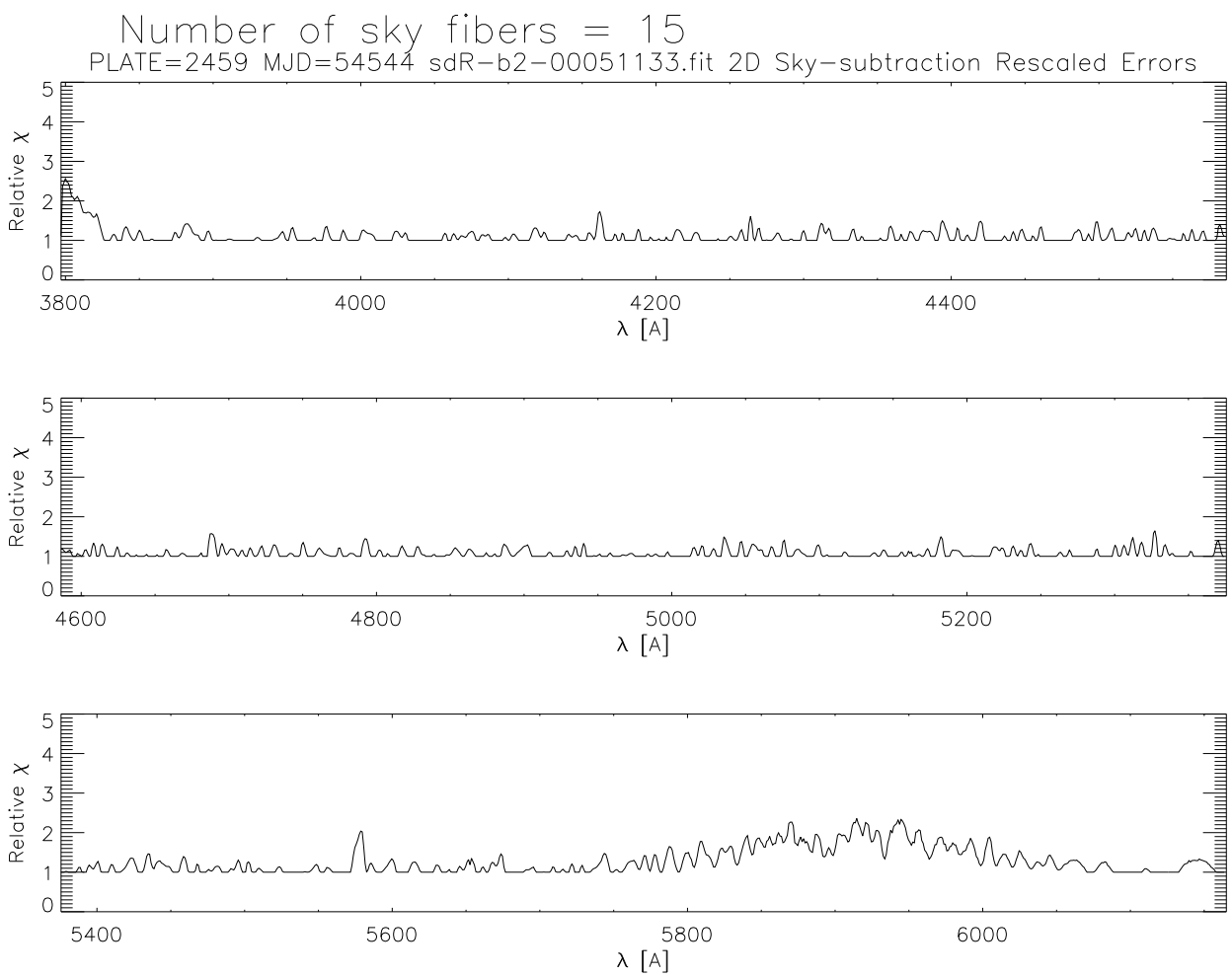

PLATE=2459 MJD=54544 sdR-b2-00051133.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

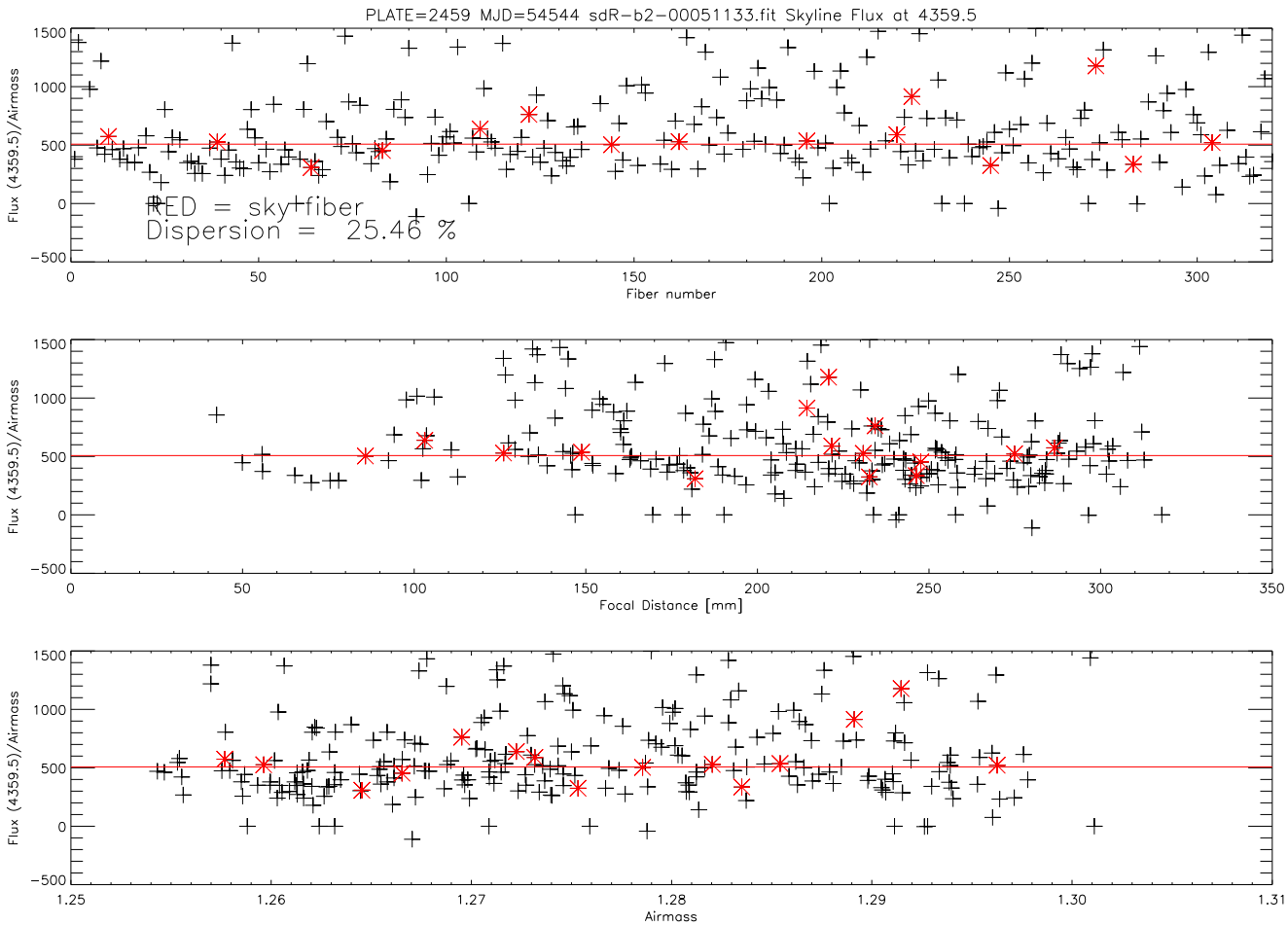

Number of sky fibers = 15
PLATE=2459 MJD=54544 sdR-b2-00051133.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

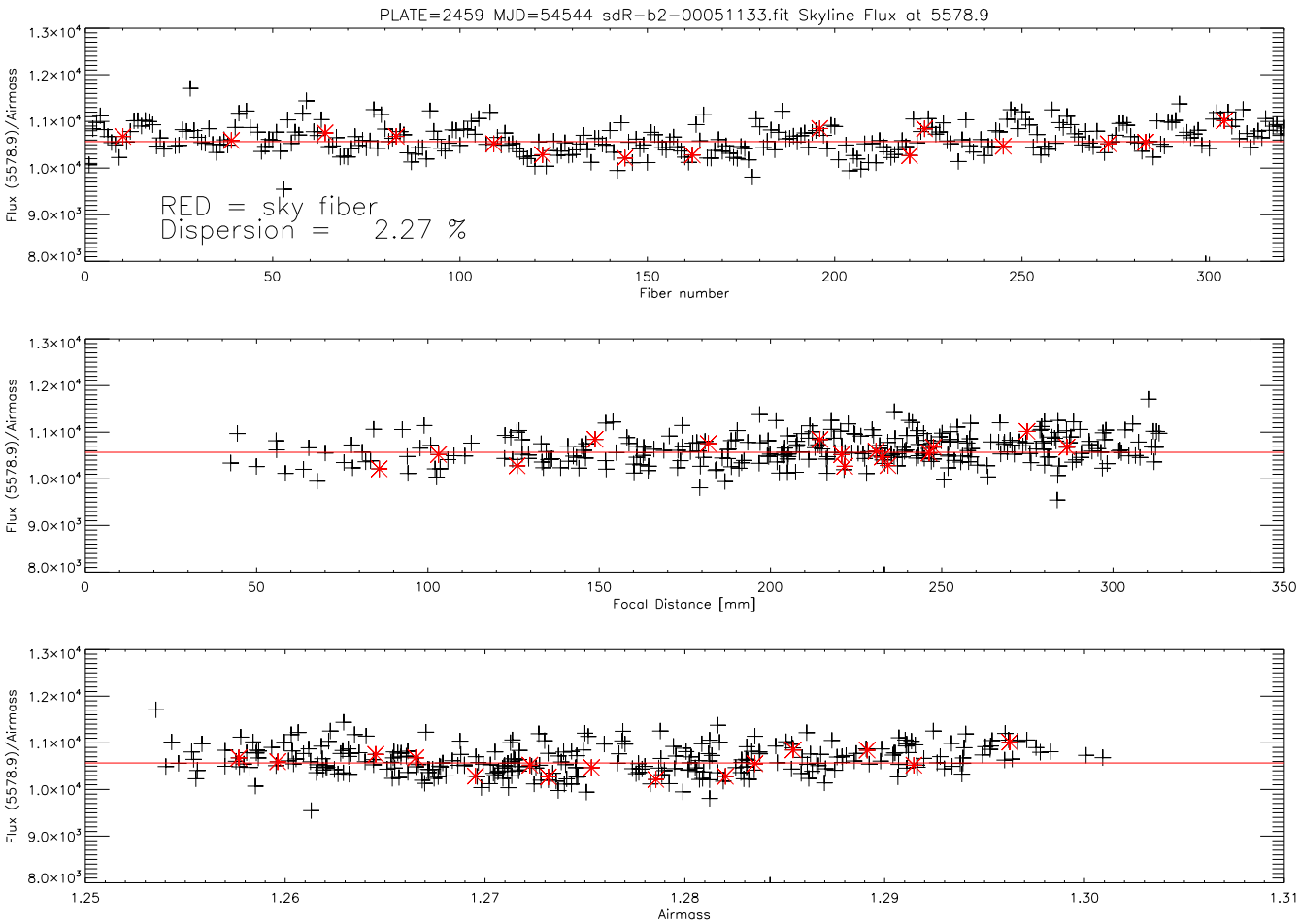

PLATE=2459 MJD=54544 sdR-b2-00051133.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
10
0
-10
-20
-30
50
100
150
200
250
300
Fiber number

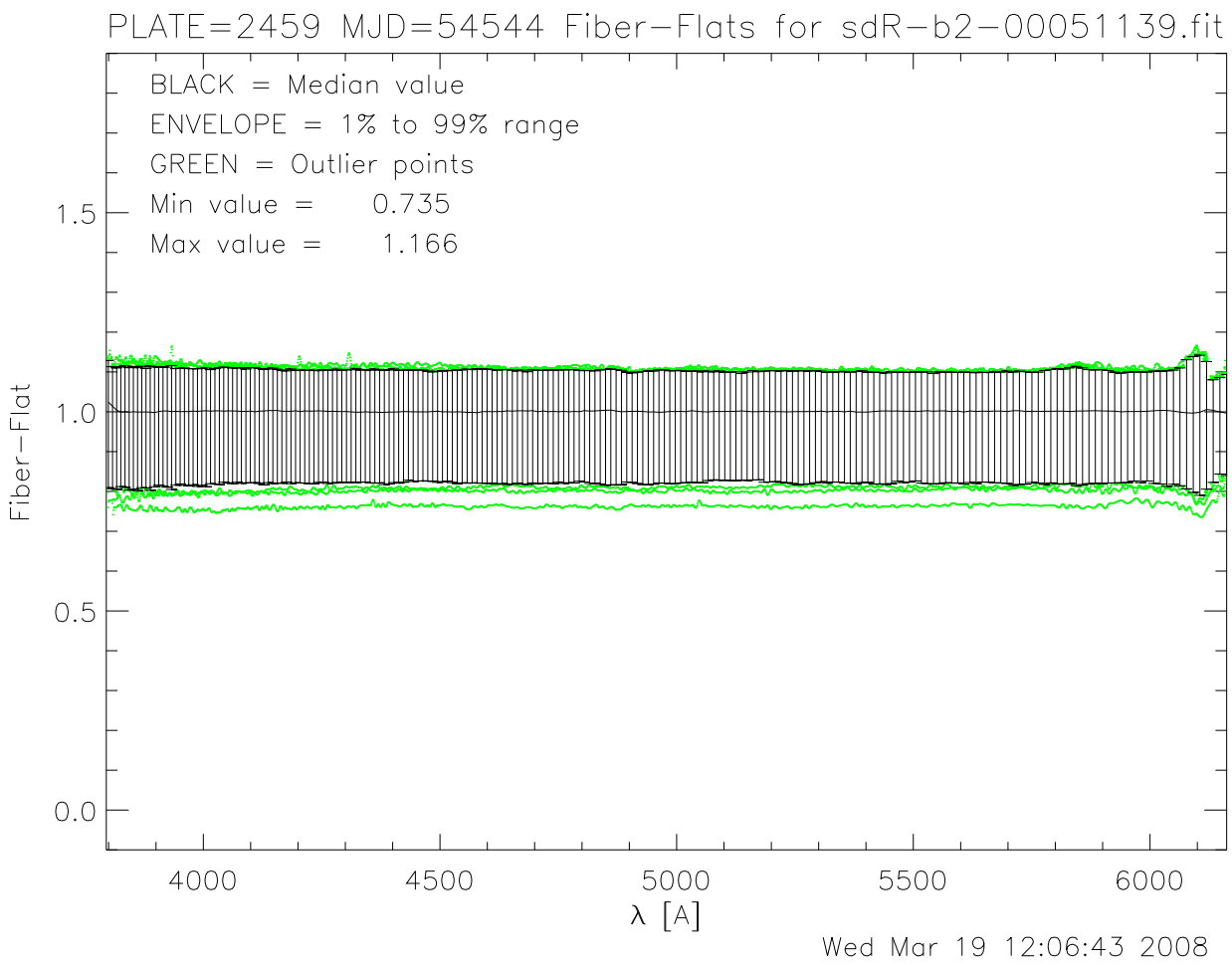

PLATE=2459 MJD=54544 sdR-b2-00051133.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

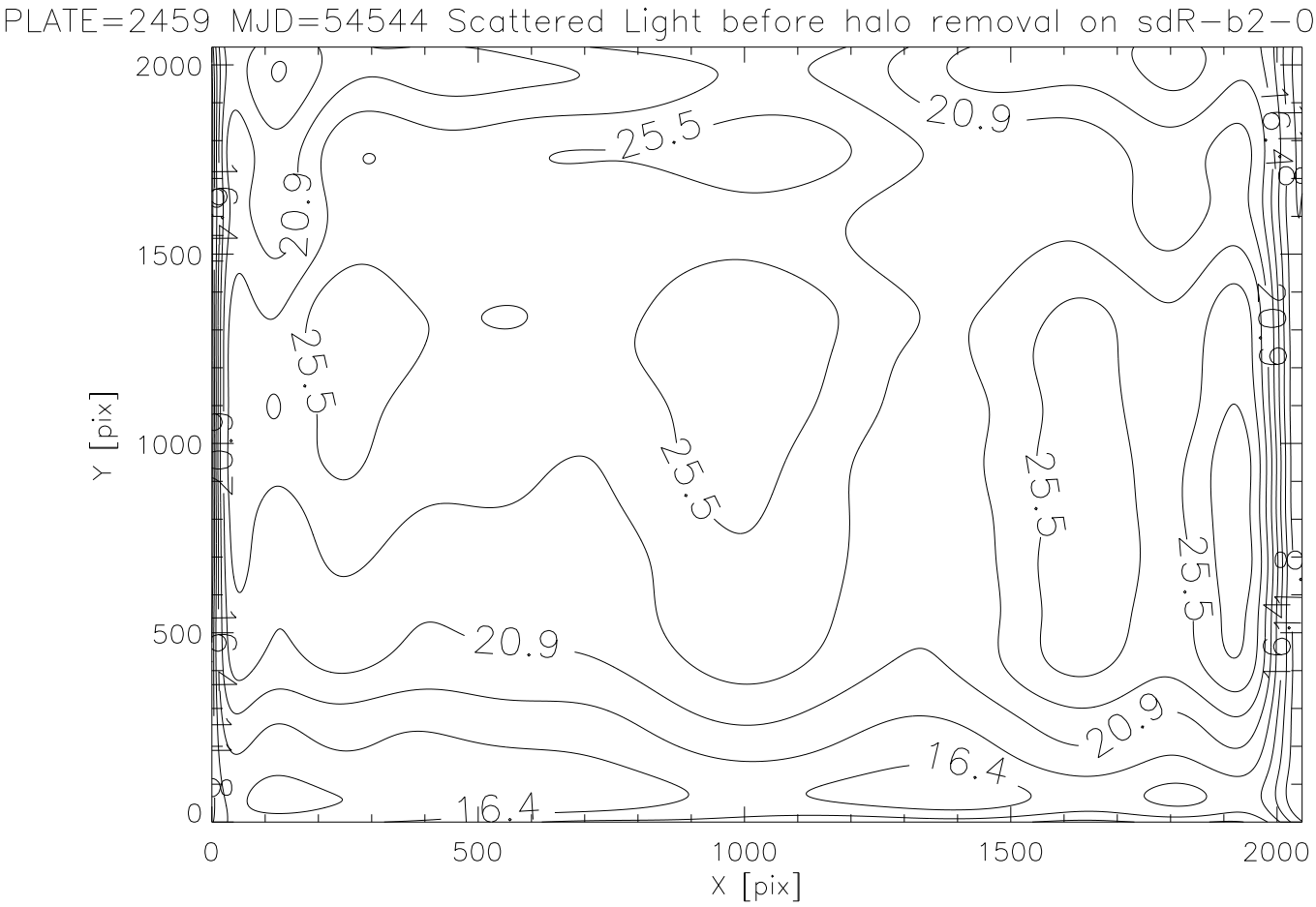

PLATE=2459 MJD=54544 sdR-b2-00051133.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

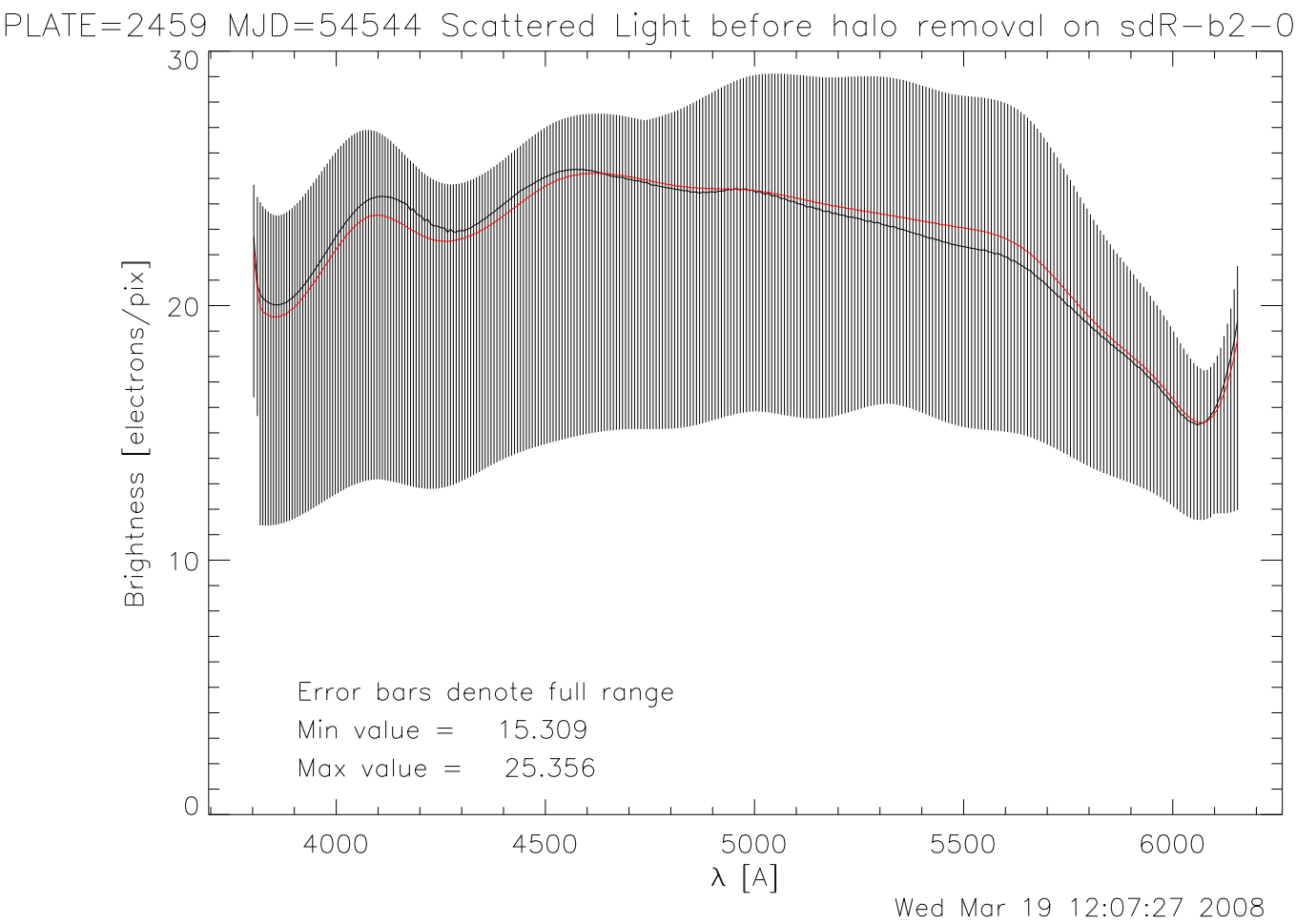

Number of sky fibers = 15
PLATE=2459 MJD=54544 sdR-b2-00051133.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

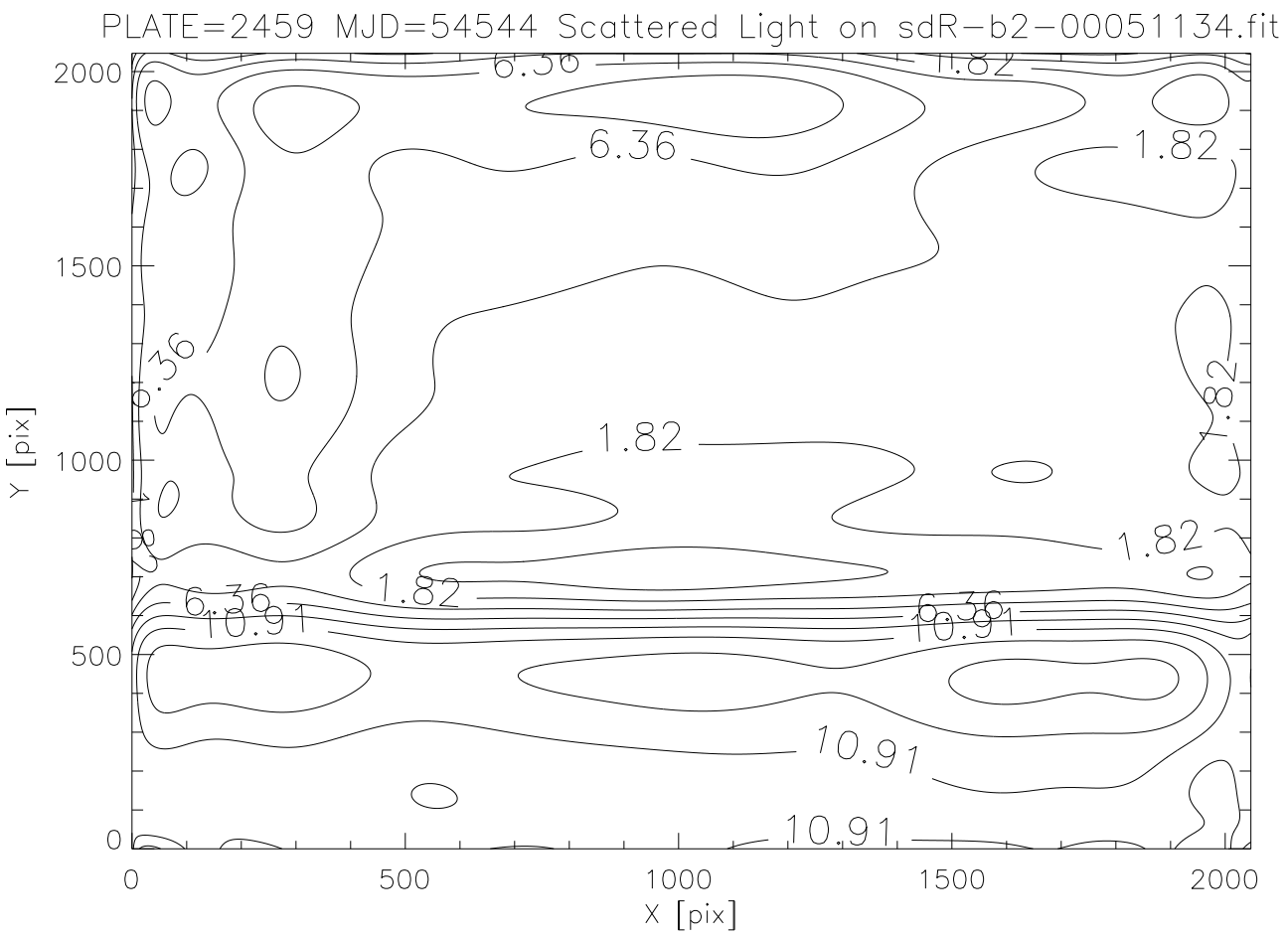

PLATE=2459 MJD=54544 sdR-b2-00051133.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 25.46 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

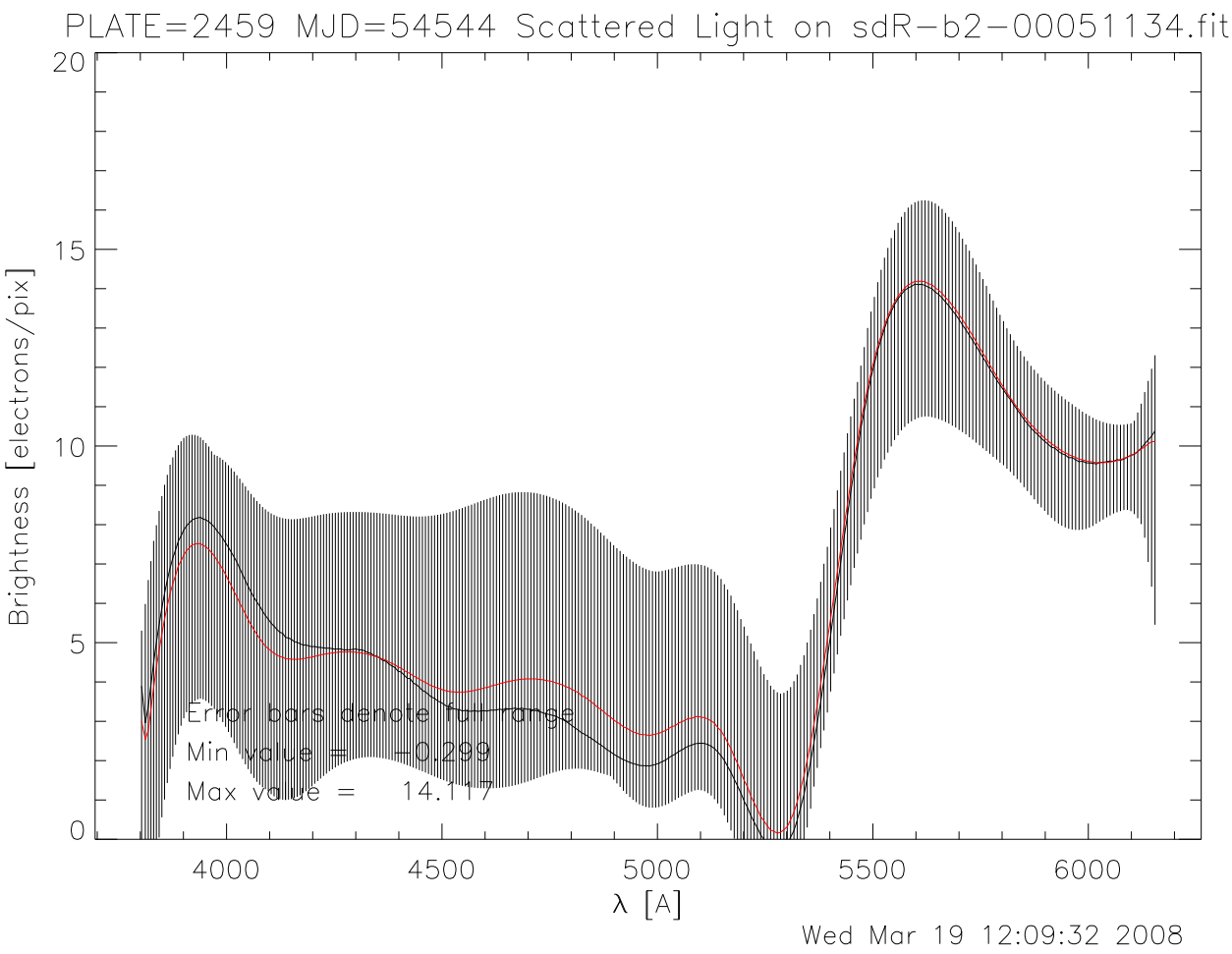

PLATE=2459 MJD=54544 sdR-b2-00051133.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.27 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

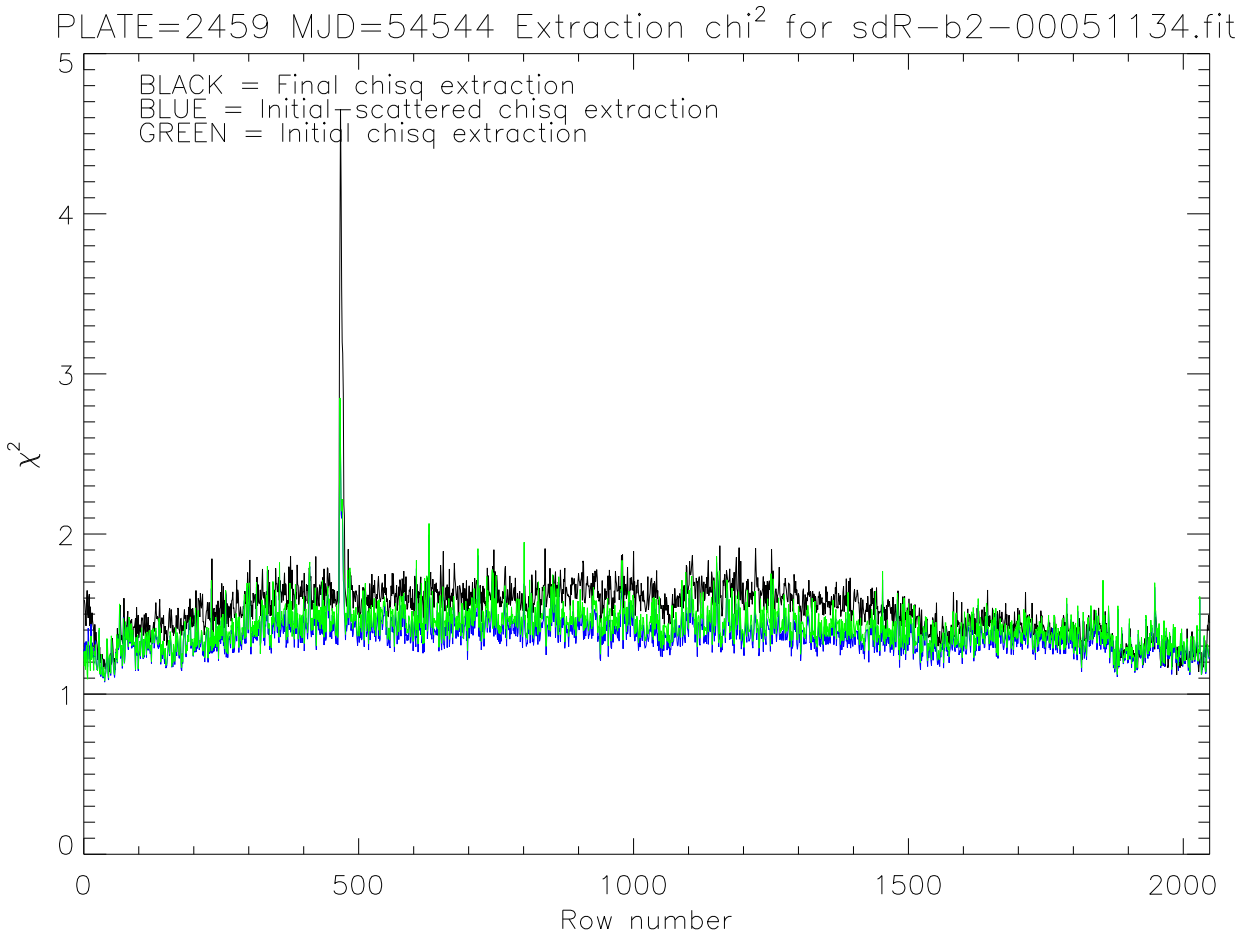

PLATE=2459 MJD=54544 Fiber-Flats for sdR-b2-00051139.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.735
Max value = 1.166
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 19 12:06:43 2008

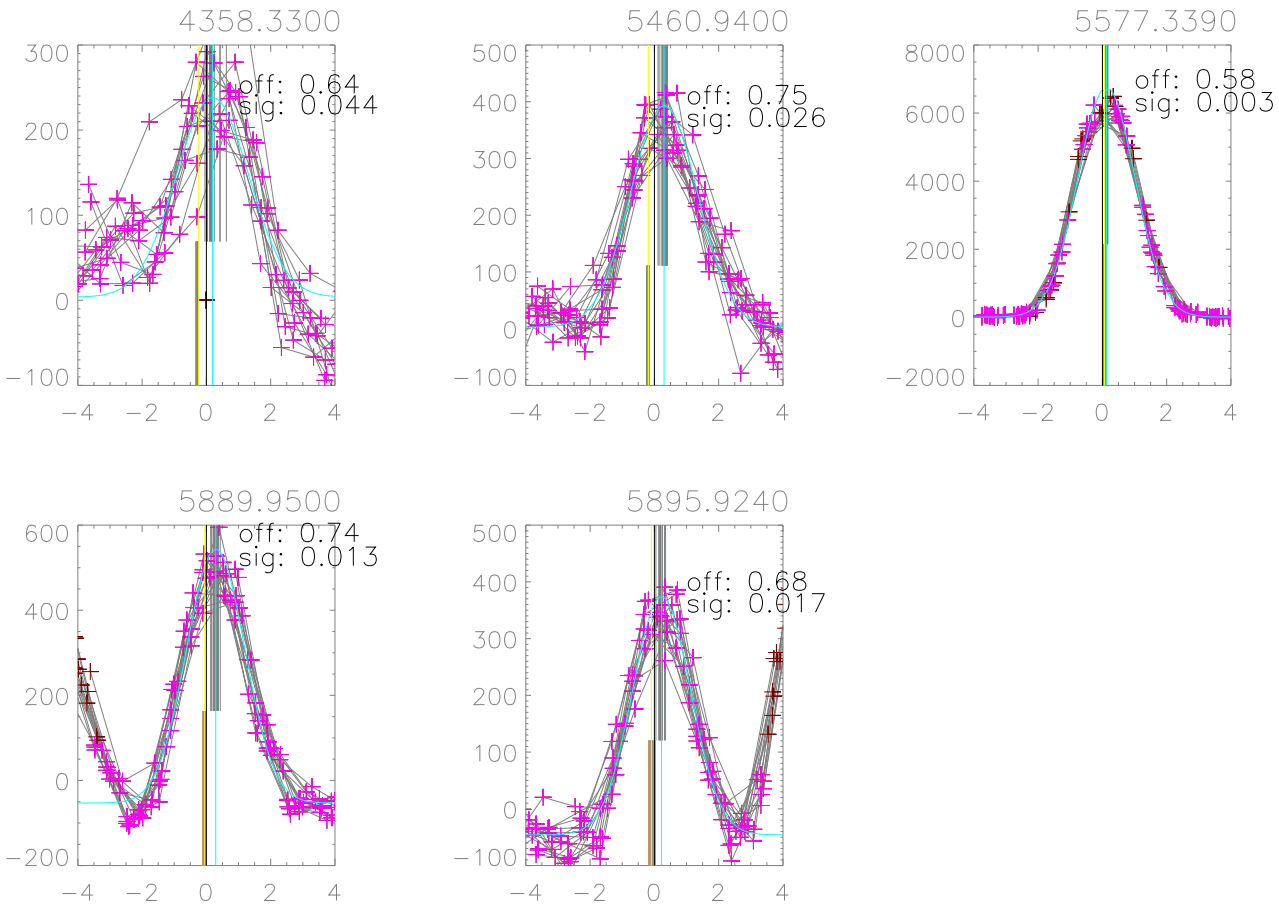

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-b2-00051134.f
Y [pix]
X [pix]
0
500
1000
1500
2000
0
20.9
25.5
16.4

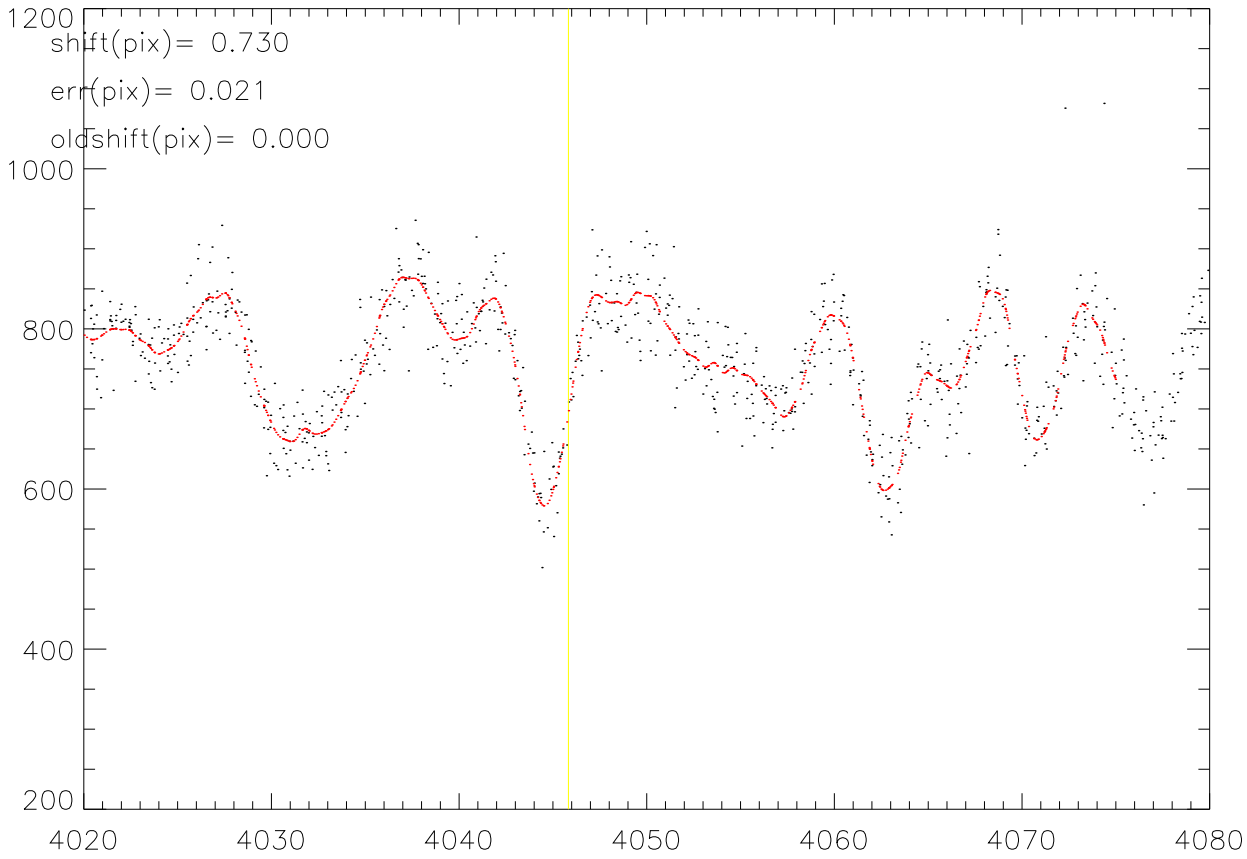

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-b2-00051134.f
Brightness [electrons/pix]
30
20
10
0
Error bars denote full range
Min value = 15.309
Max value = 25.356
4000
4500
5000
5500
6000
λ [A]
Wed Mar 19 12:07:27 2008

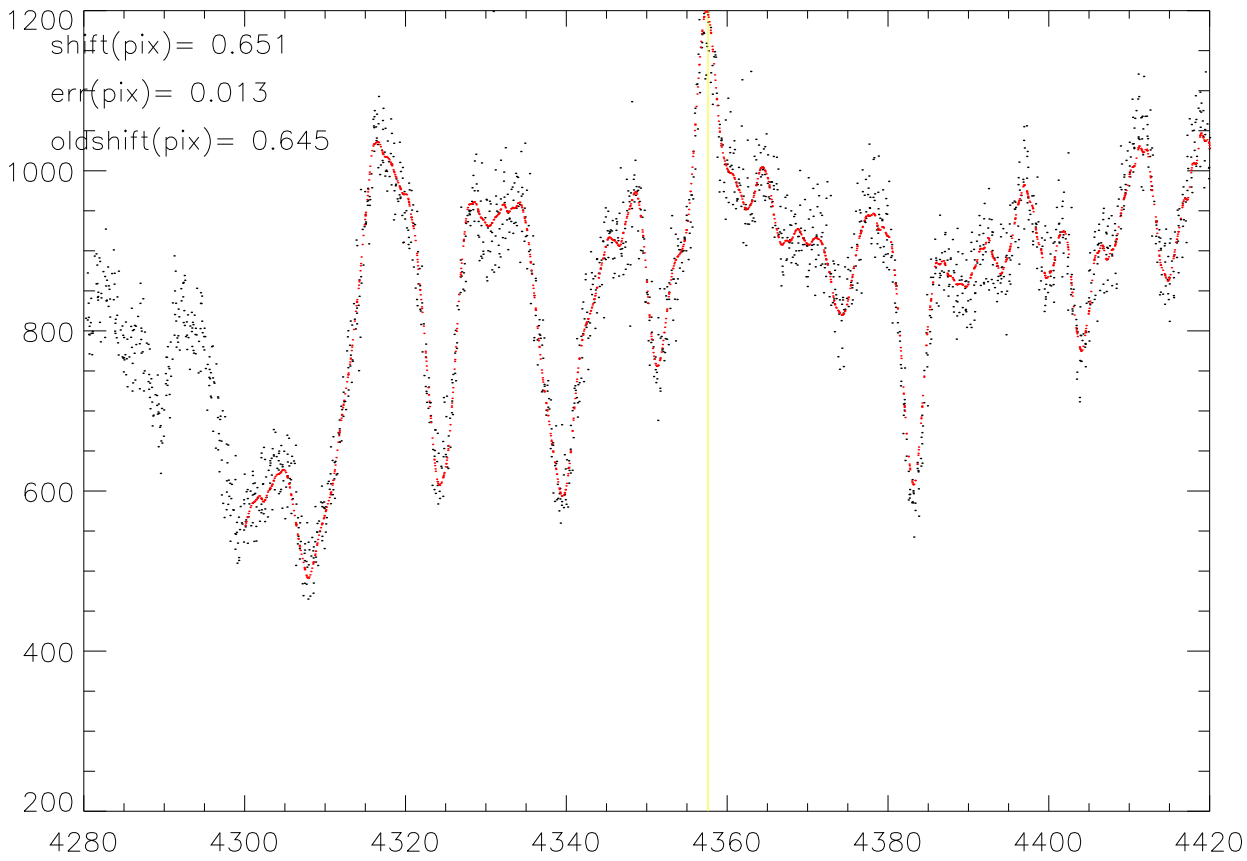

PLATE=2459 MJD=54544 Scattered Light on sdR-b2-00051134.fit
6.36
1.82
10.91
Y [pix]
X [pix]
0
500
1000
1500
2000

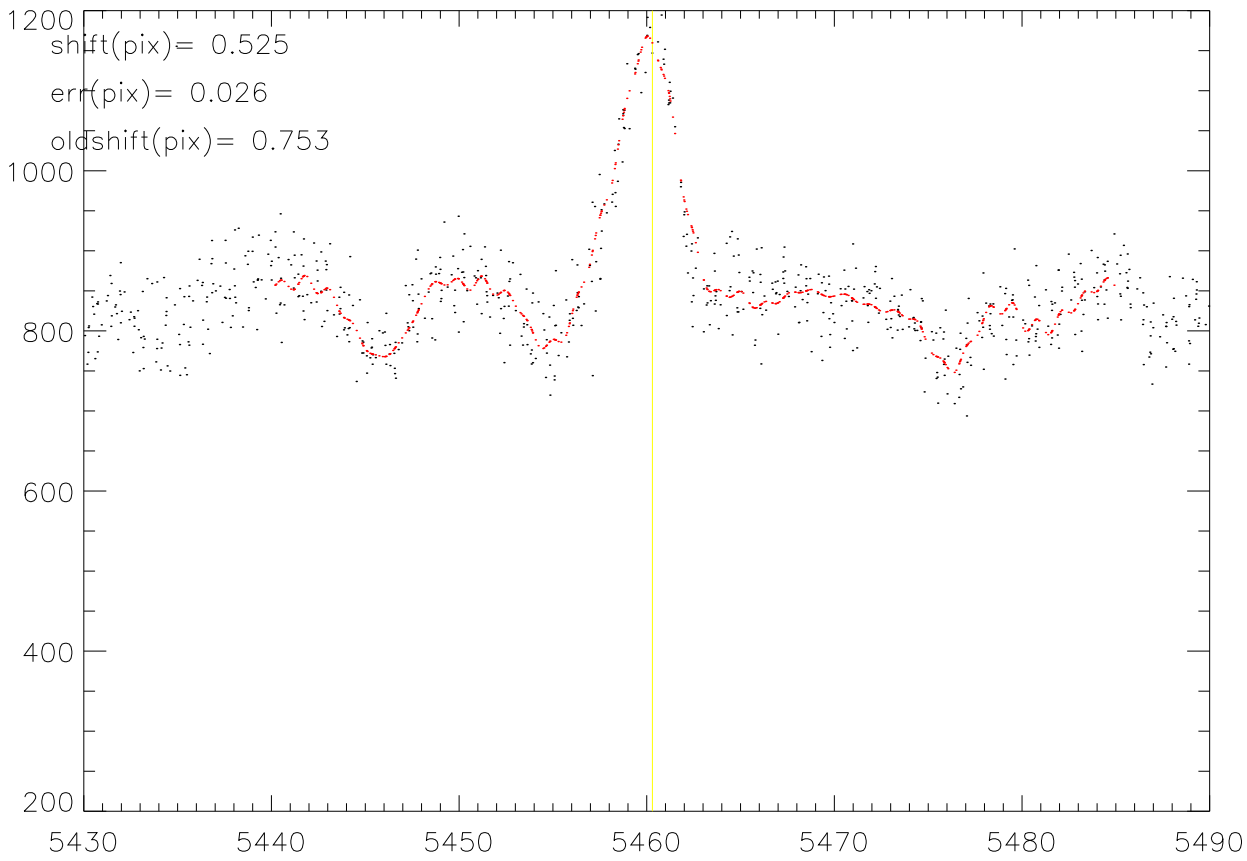

PLATE=2459 MJD=54544 Scattered Light on sdR-b2-00051134.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = -0.299
Max value = 14.117
Wed Mar 19 12:09:32 2008

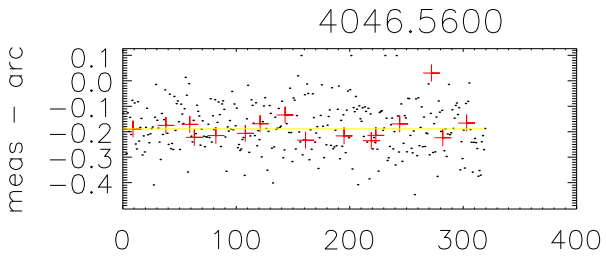

PLATE=2459 MJD=54544 Extraction chi^2 for sdR-b2-00051134.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

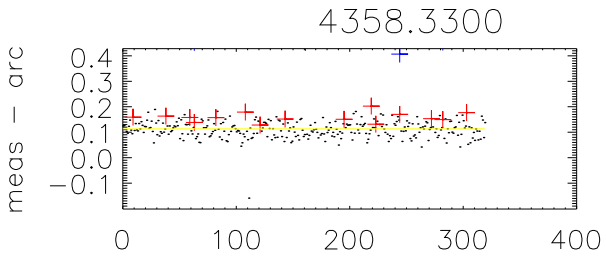

4358.3300
off: 0.64
sig: 0.044
5460.9400
off: 0.75
sig: 0.026
5577.3390
off: 0.58
sig: 0.003
5889.9500
off: 0.74
sig: 0.013
5895.9240
off: 0.68
sig: 0.017

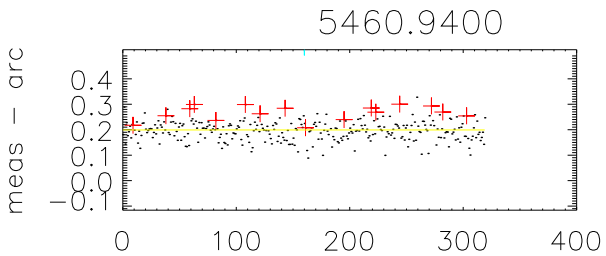

shift(pix)= 0.730
err(pix)= 0.021
oldshift(pix)= 0.000
1200
1000
800
600
400
200
4020
4030
4040
4050
4060
4070
4080

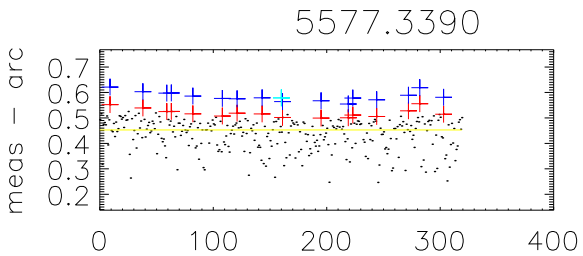

shift(pix)= 0.651
err(pix)= 0.013
oldshift(pix)= 0.645
1200
1000
800
600
400
200
4280
4300
4320
4340
4360
4380
4400
4420

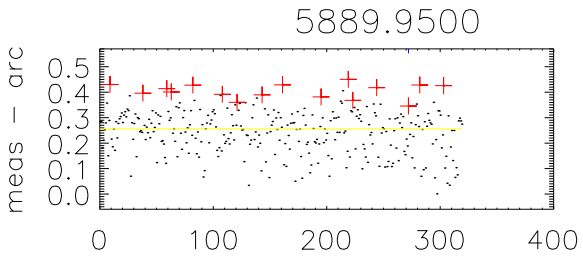

shift(pix)= 0.525
err(pix)= 0.026
oldshift(pix)= 0.753
1200
1000
800
600
400
200
5430
5440
5450
5460
5470
5480
5490

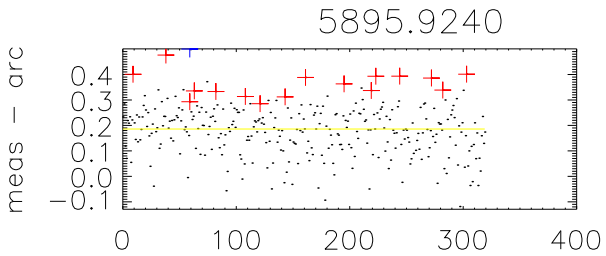

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

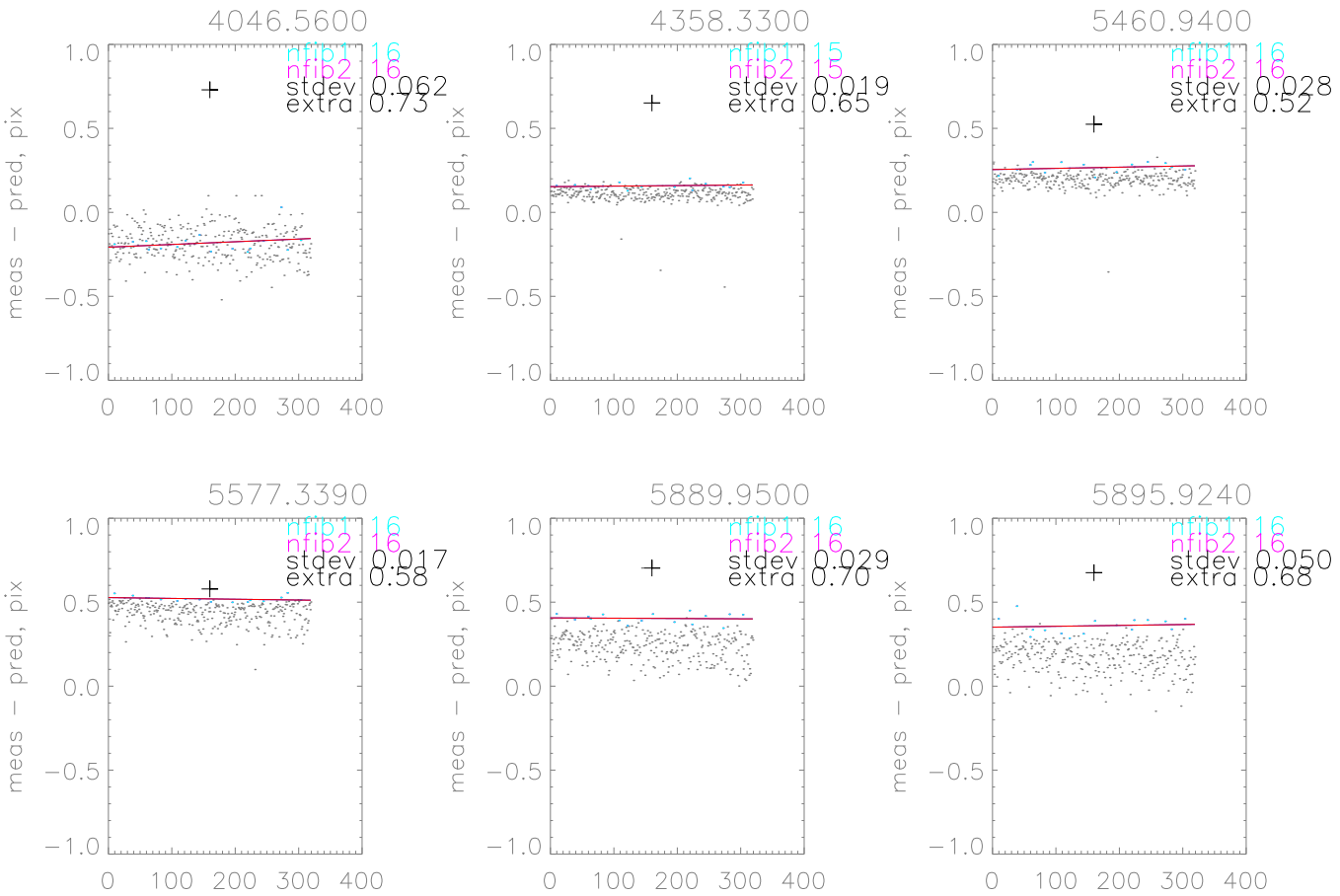

4358.3300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

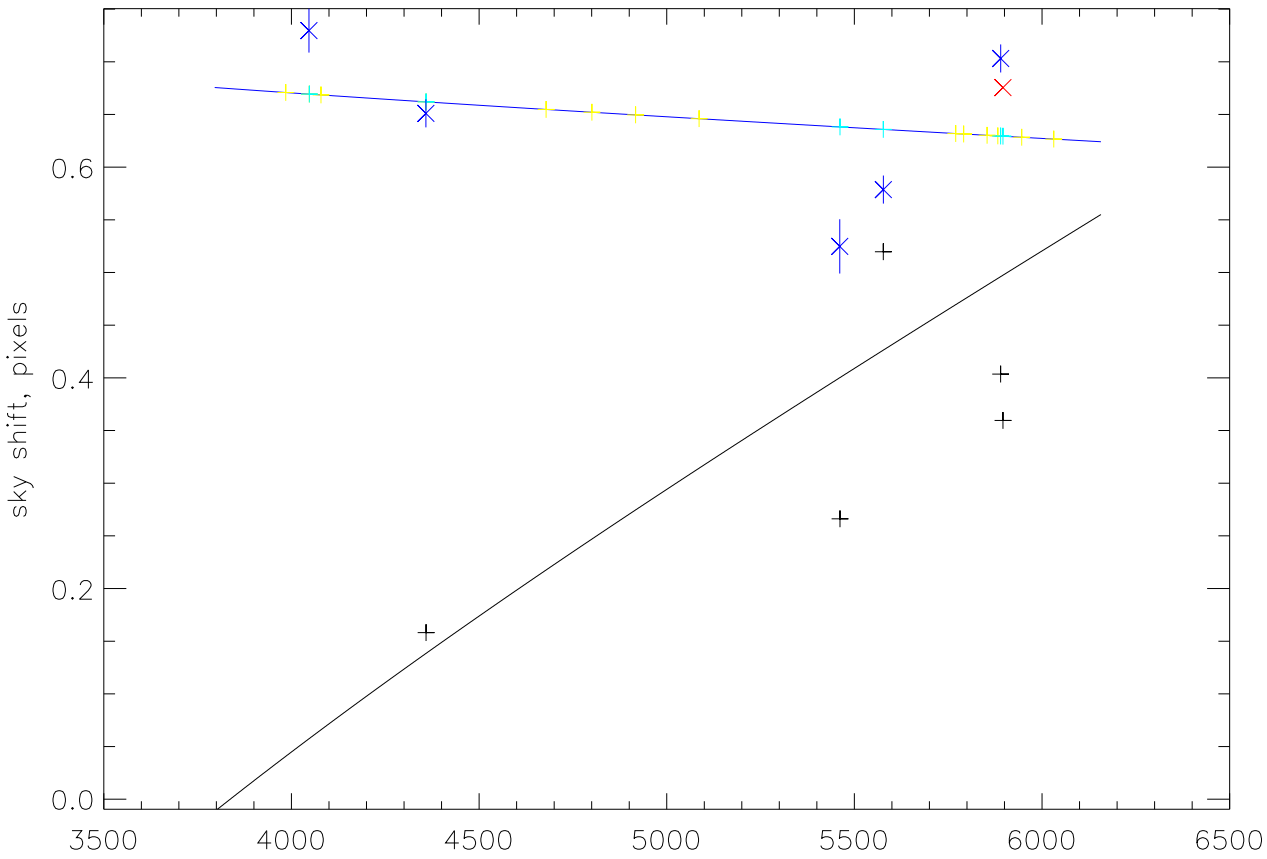

5460.9400
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

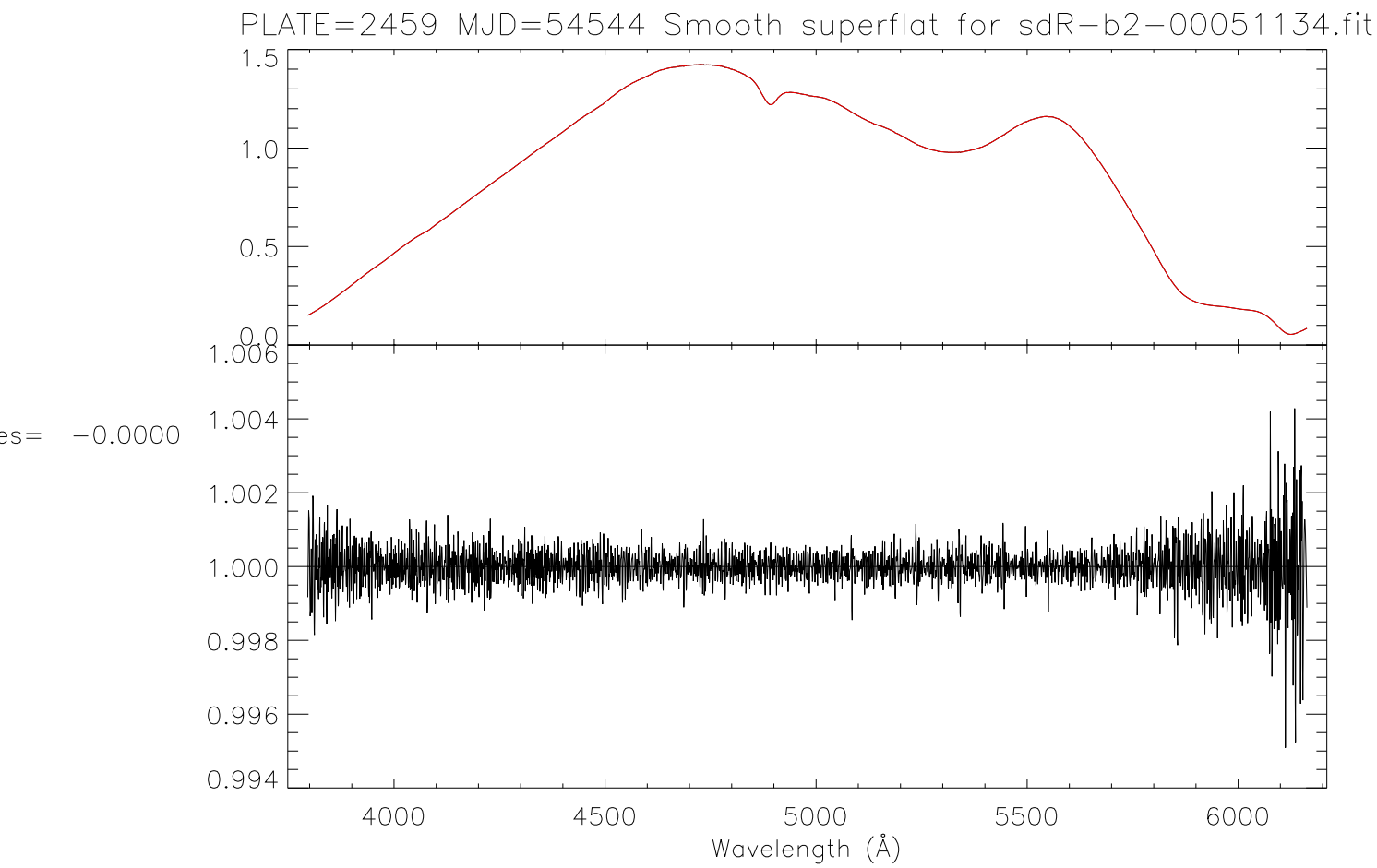

5577.3390
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400


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

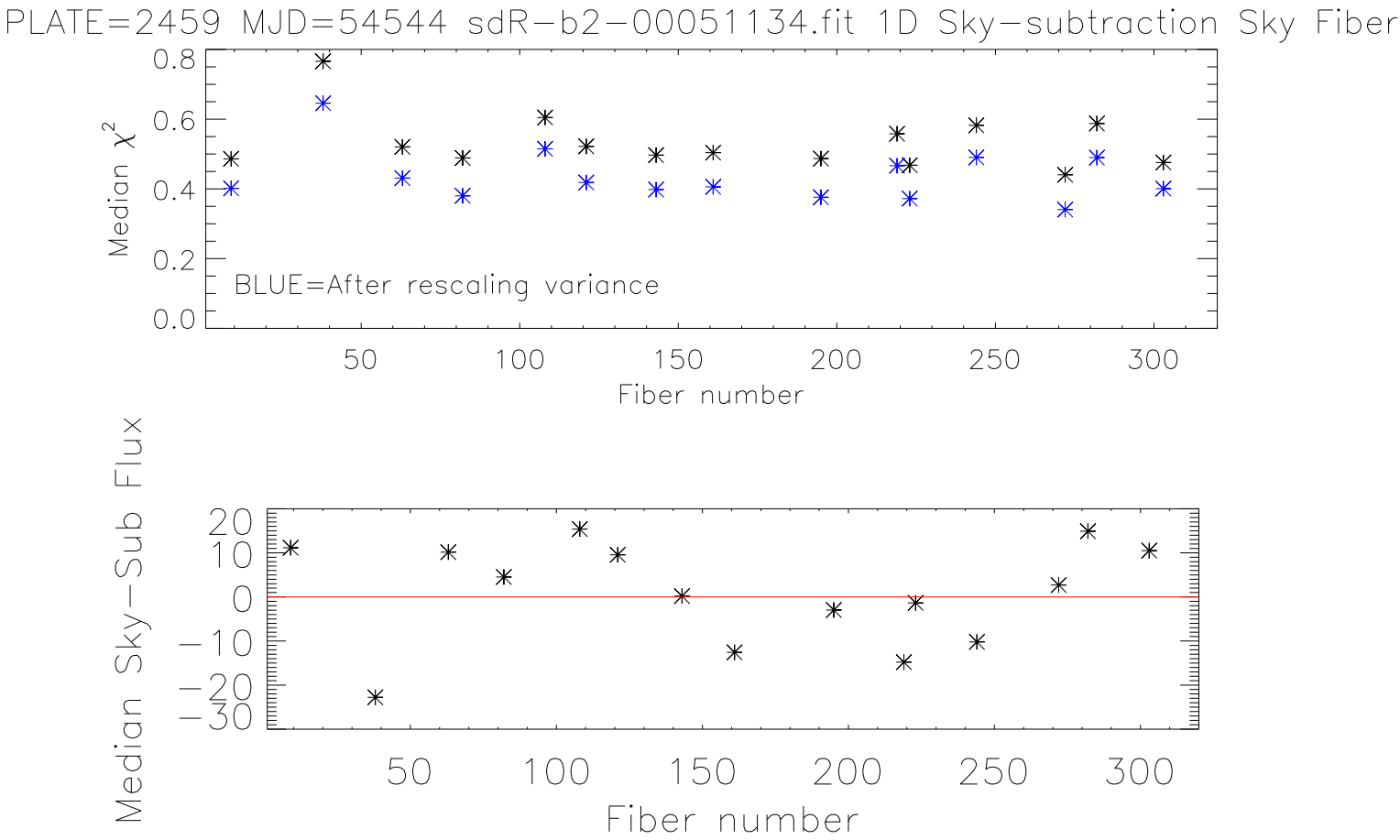

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

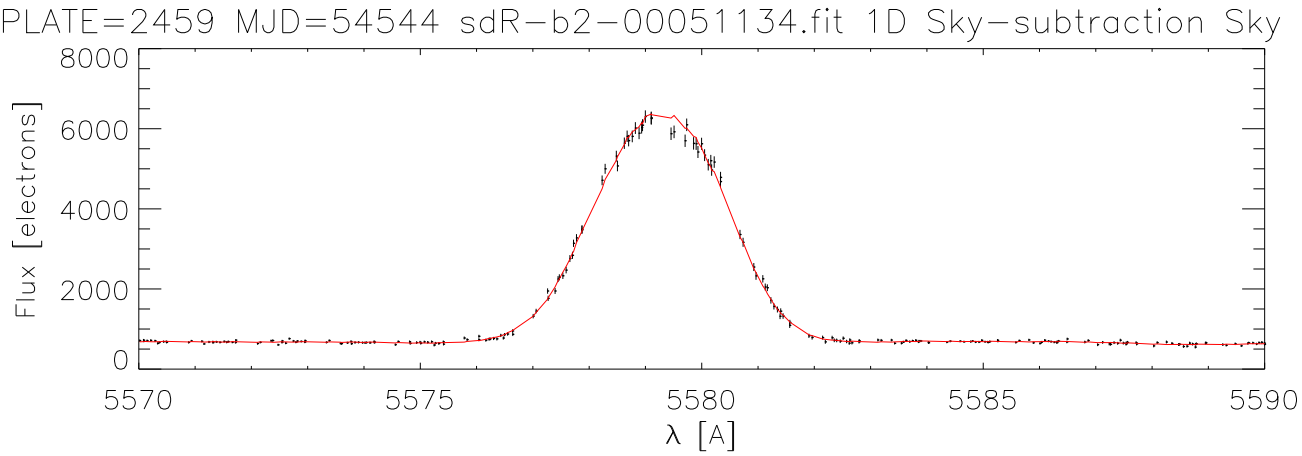

4046.5600
nfib1 16
nfib2 16
stdev 0.062
extra 0.73
4358.3300
nfib1 15
nfib2 15
stdev 0.019
extra 0.65
5460.9400
nfib1 16
nfib2 16
stdev 0.028
extra 0.52
5577.3390
nfib1 16
nfib2 16
stdev 0.017
extra 0.58
5889.9500
nfib1 16
nfib2 16
stdev 0.029
extra 0.70
5895.9240
nfib1 16
nfib2 16
stdev 0.050
extra 0.68
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

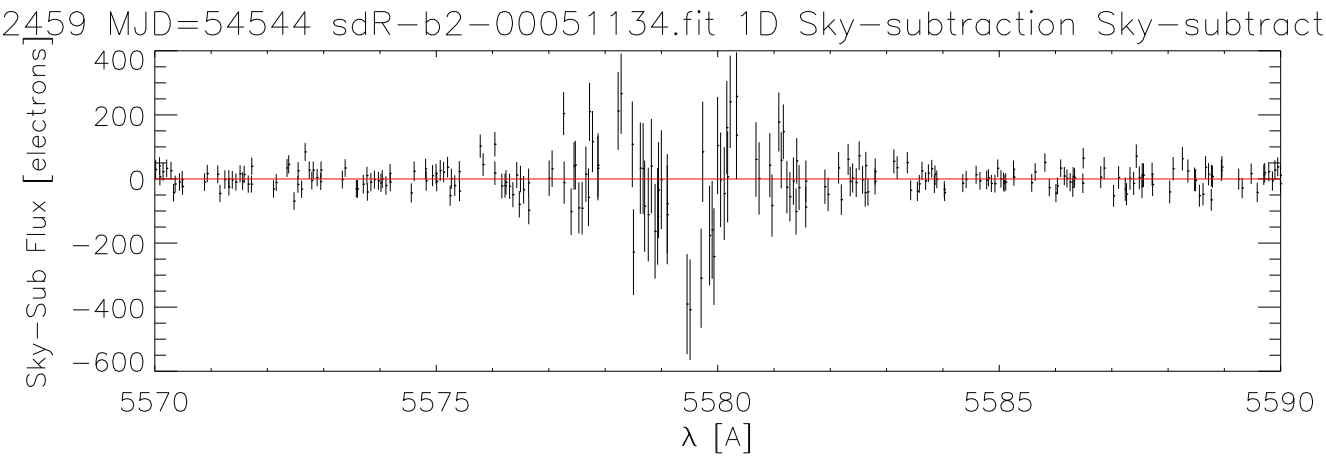

sky shift, pixels
0.0
0.2
0.4
0.6
3500
4000
4500
5000
5500
6000
6500

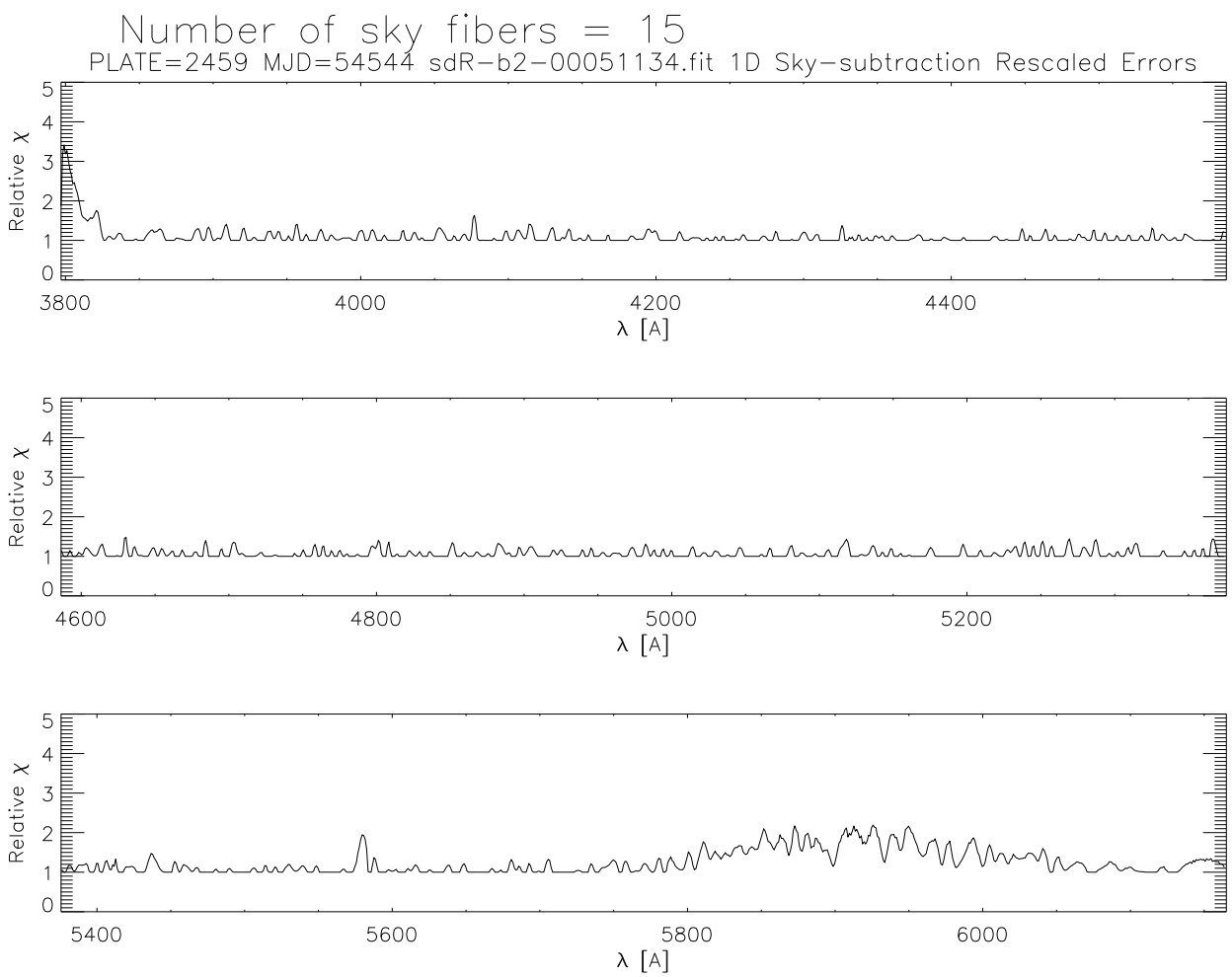

PLATE=2459 MJD=54544 Smooth superflat for sdR-b2-00051134.fit
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
4000
4500
5000
5500
6000
Wavelength (Å)

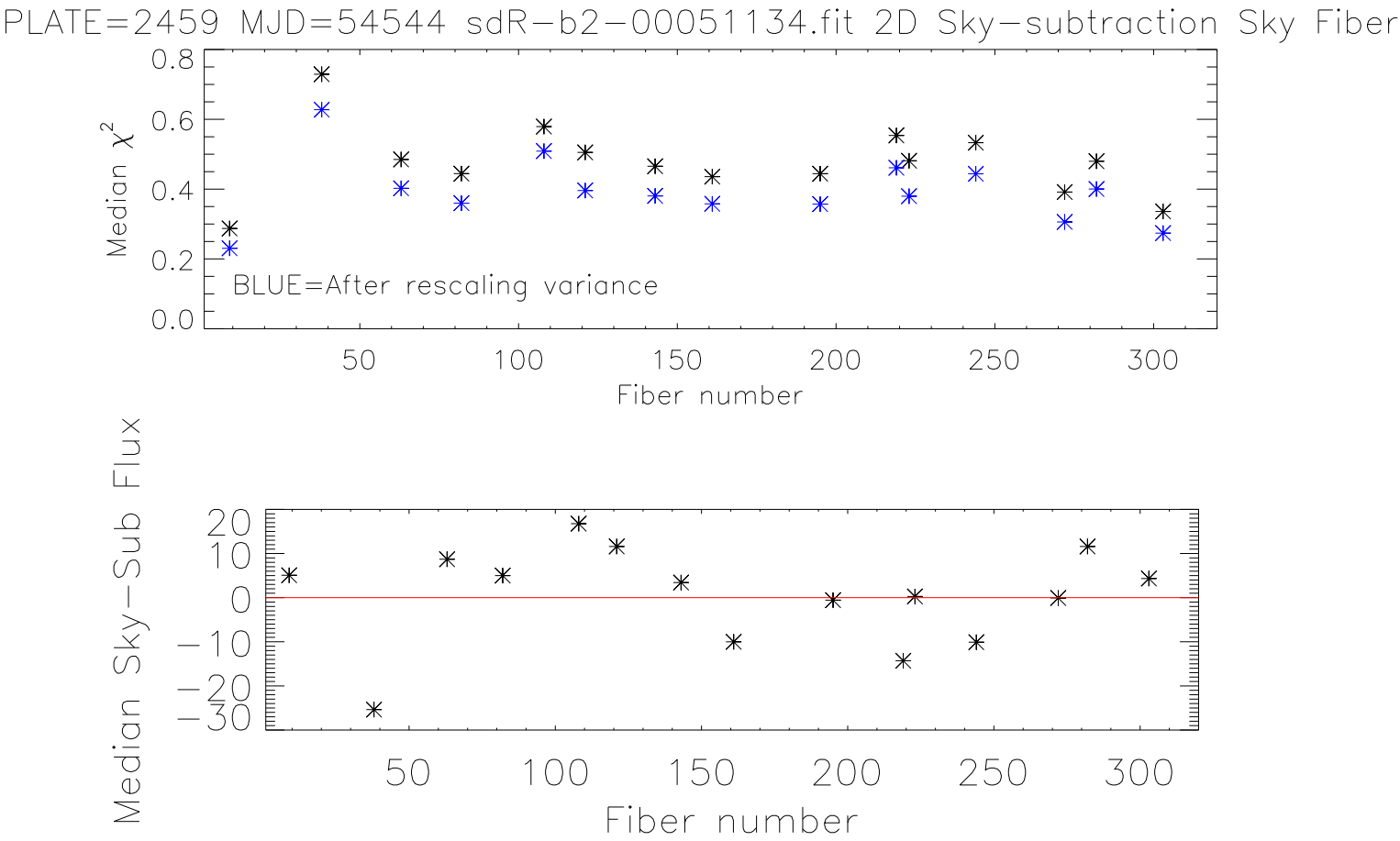
es= −0.0000

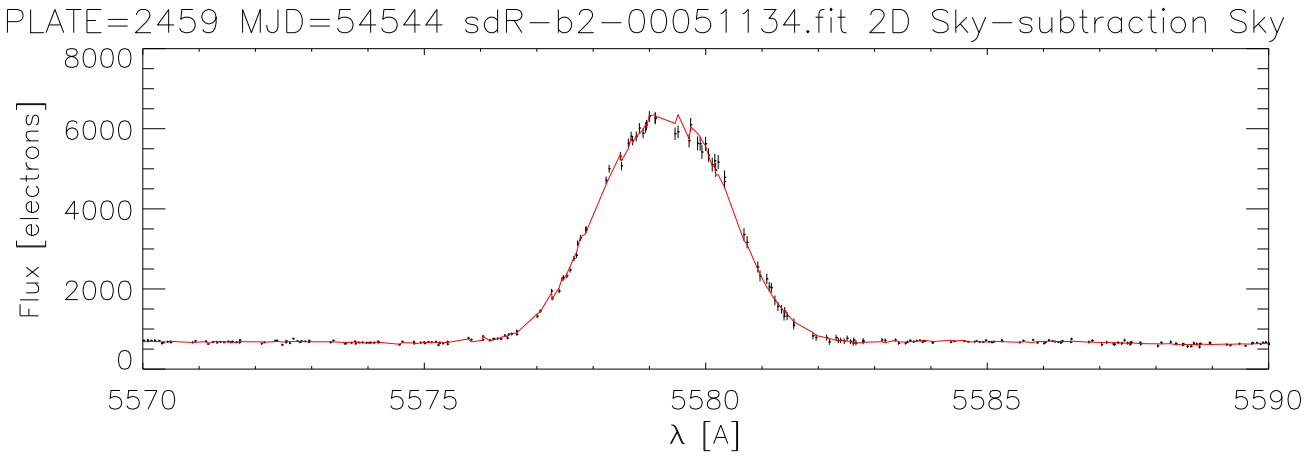

PLATE=2459 MJD=54544 sdR-b2-00051134.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
10
0
-10
-20
-30
50
100
150
200
250
300
Fiber number

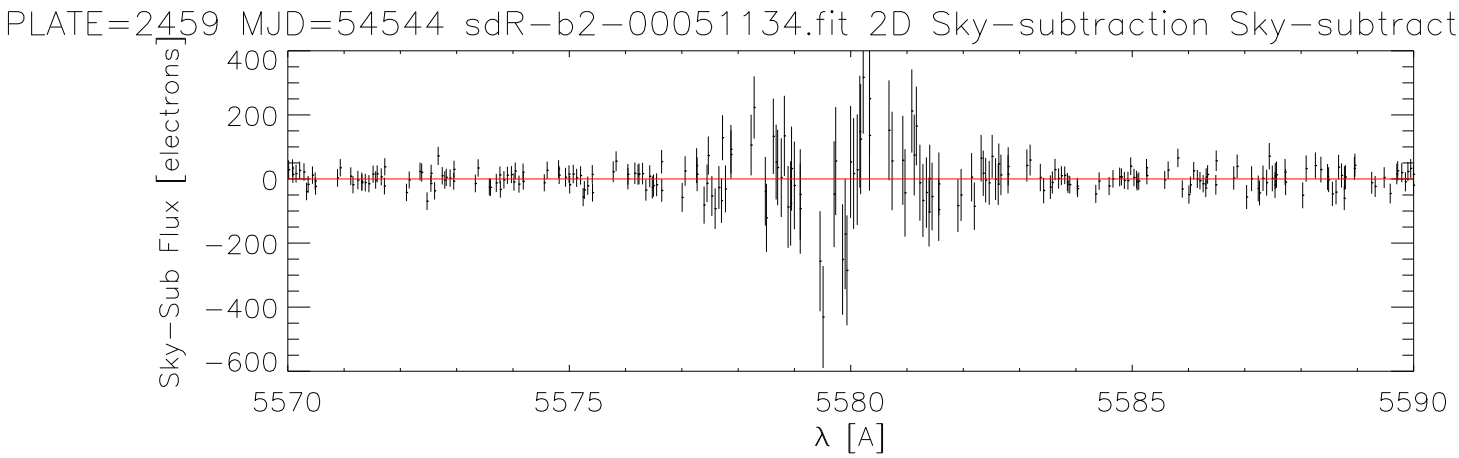

PLATE=2459 MJD=54544 sdR-b2-00051134.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

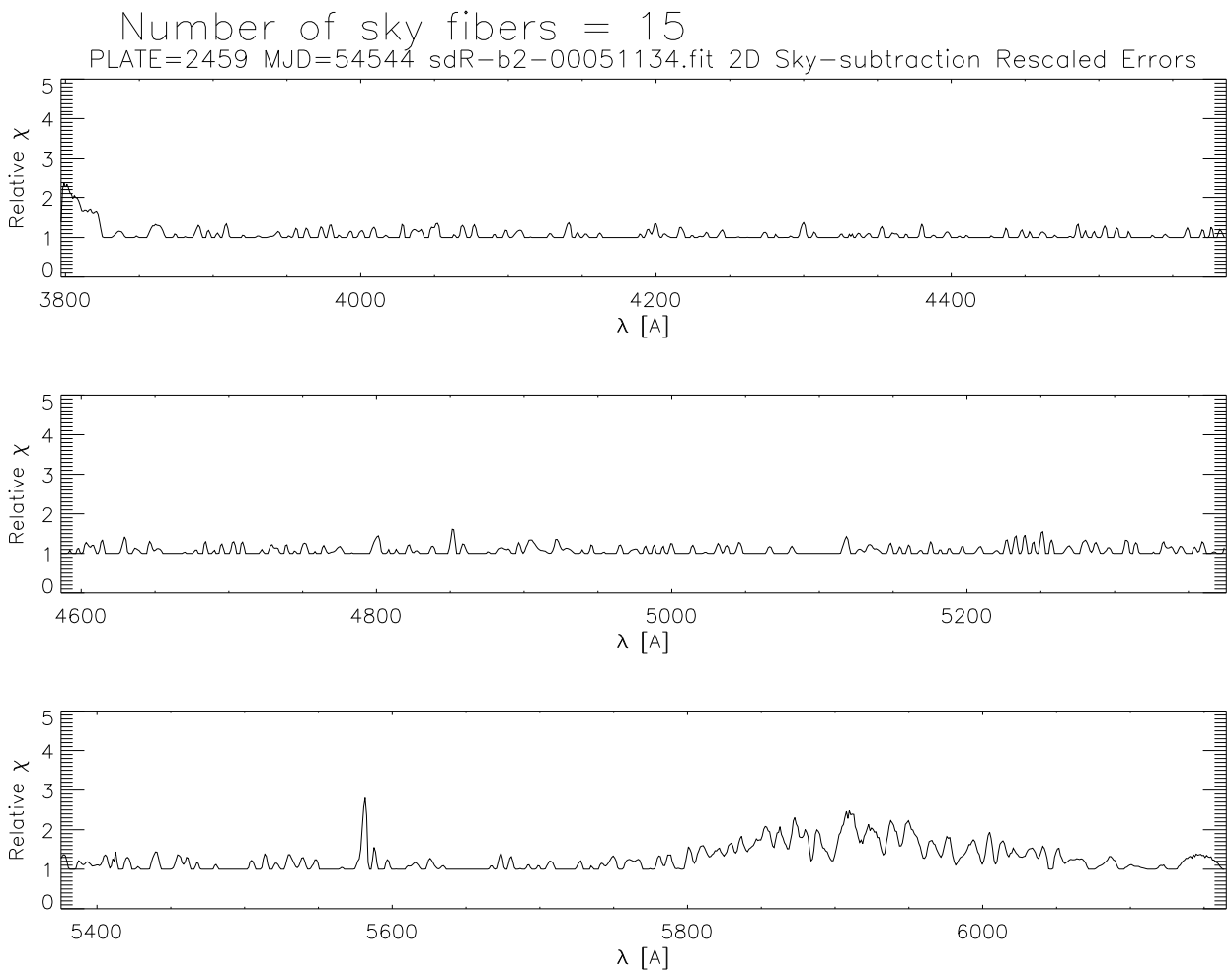

PLATE=2459 MJD=54544 sdR-b2-00051134.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

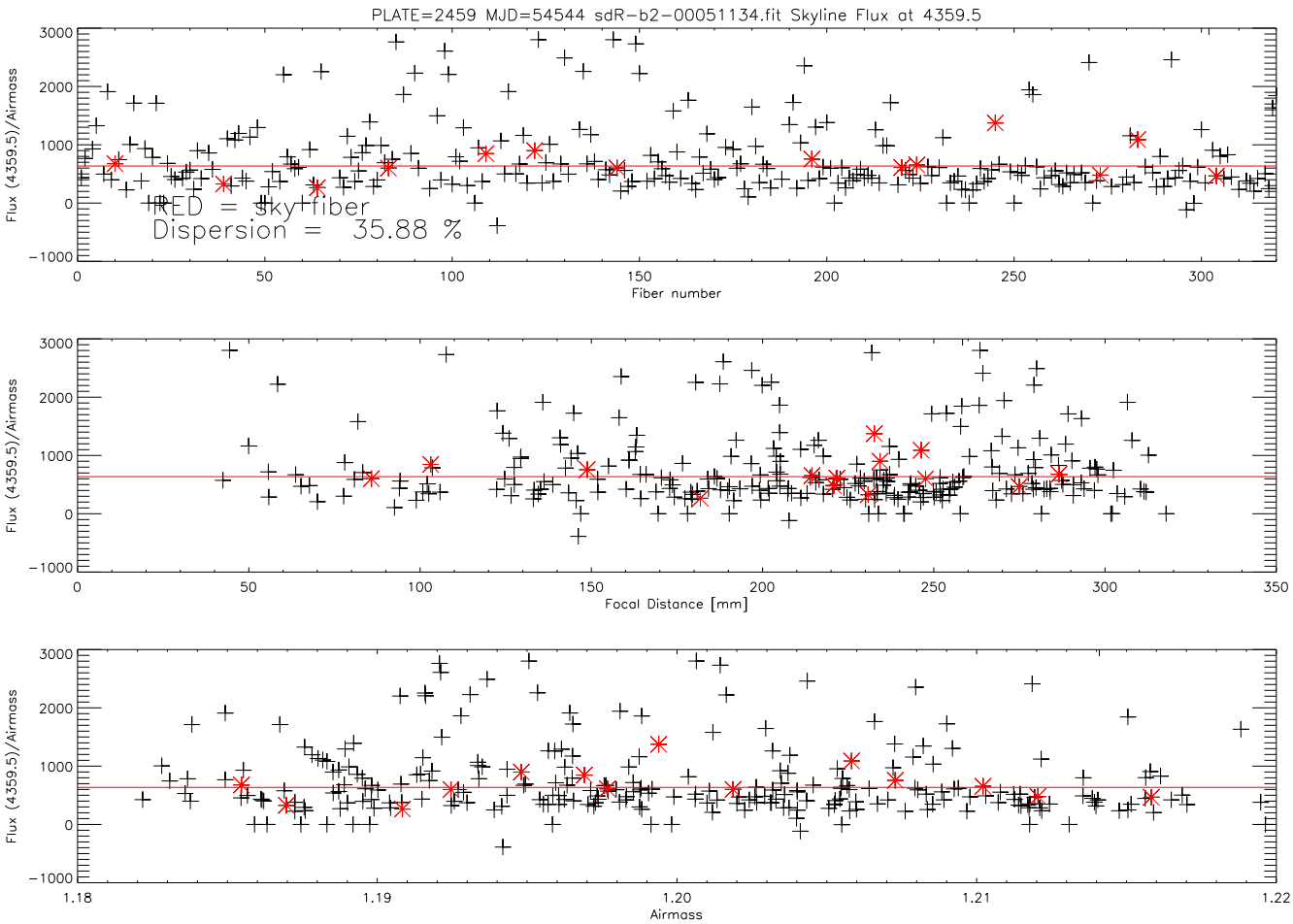

Number of sky fibers = 15
PLATE=2459 MJD=54544 sdR-b2-00051134.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

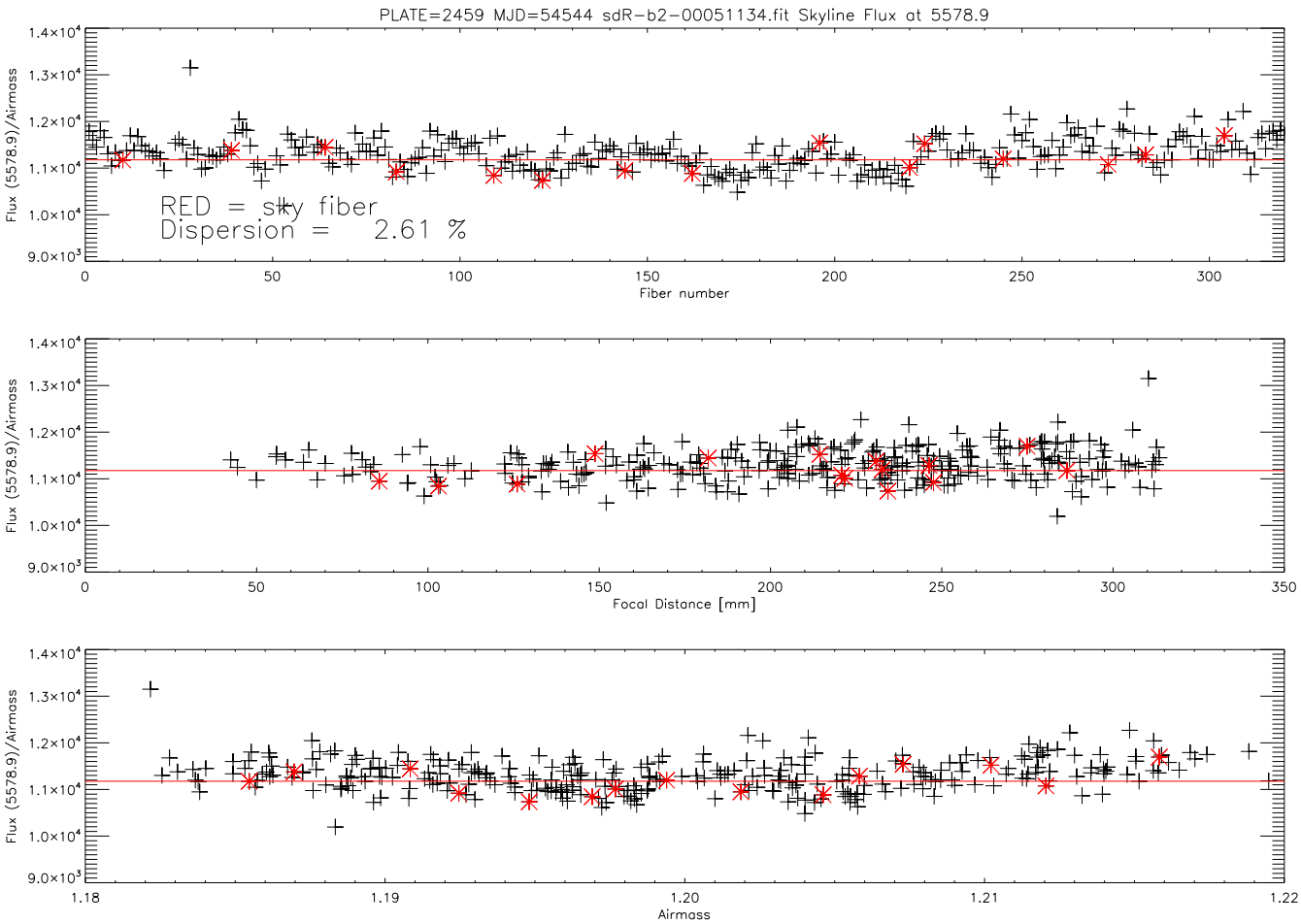

PLATE=2459 MJD=54544 sdR-b2-00051134.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
10
0
-10
-20
-30
50
100
150
200
250
300
Fiber number

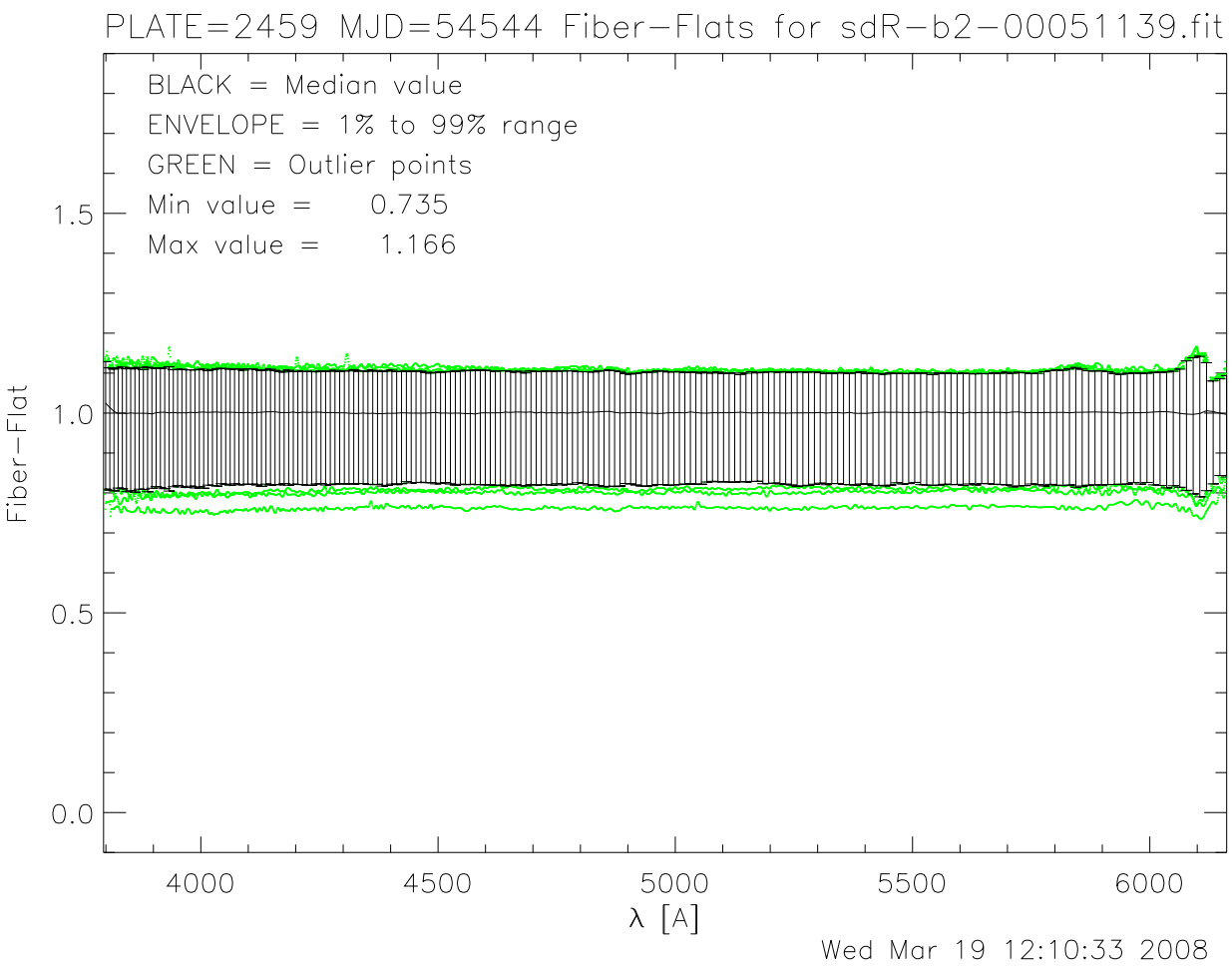

PLATE=2459 MJD=54544 sdR-b2-00051134.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

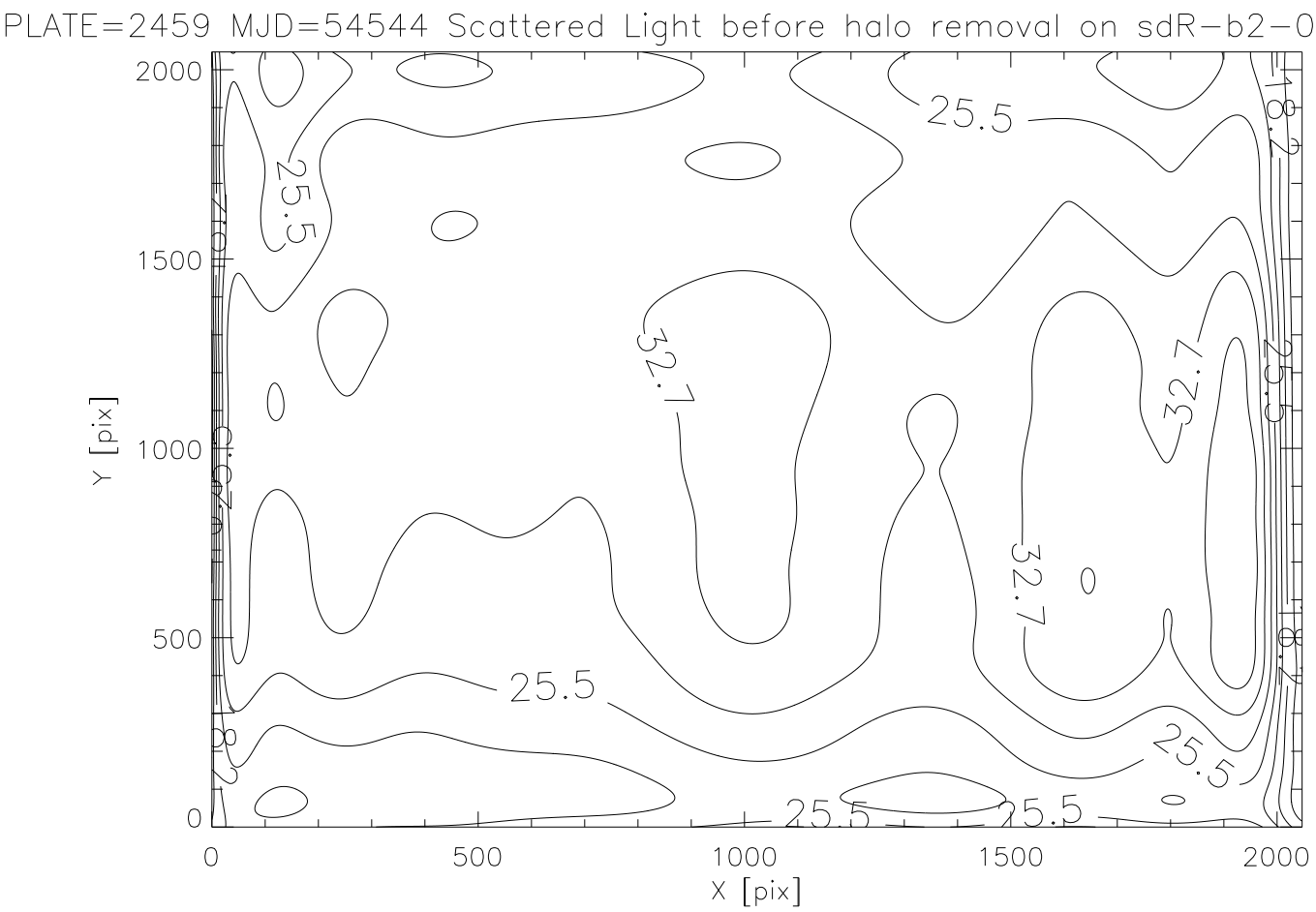

PLATE=2459 MJD=54544 sdR-b2-00051134.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

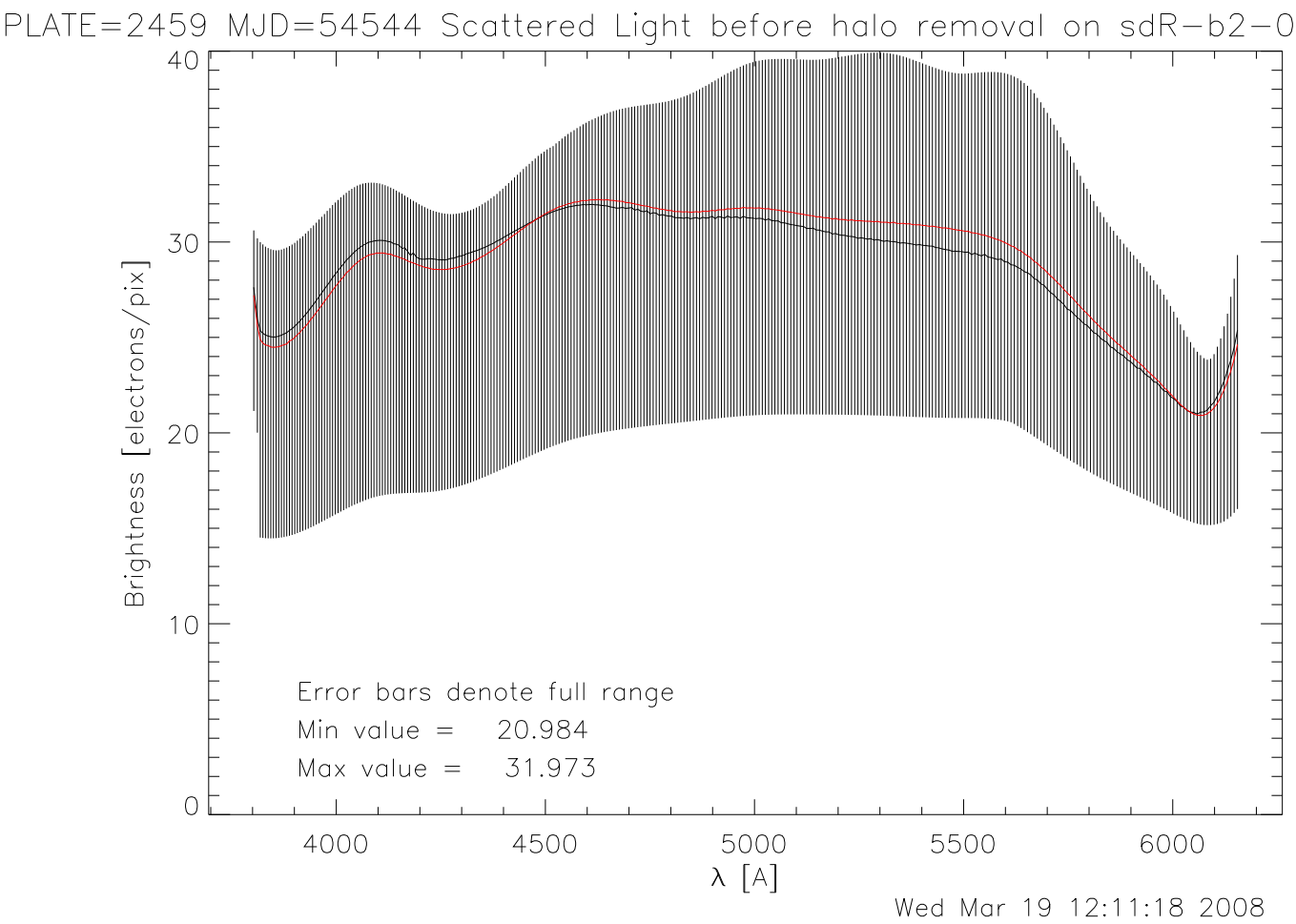

Number of sky fibers = 15
PLATE=2459 MJD=54544 sdR-b2-00051134.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

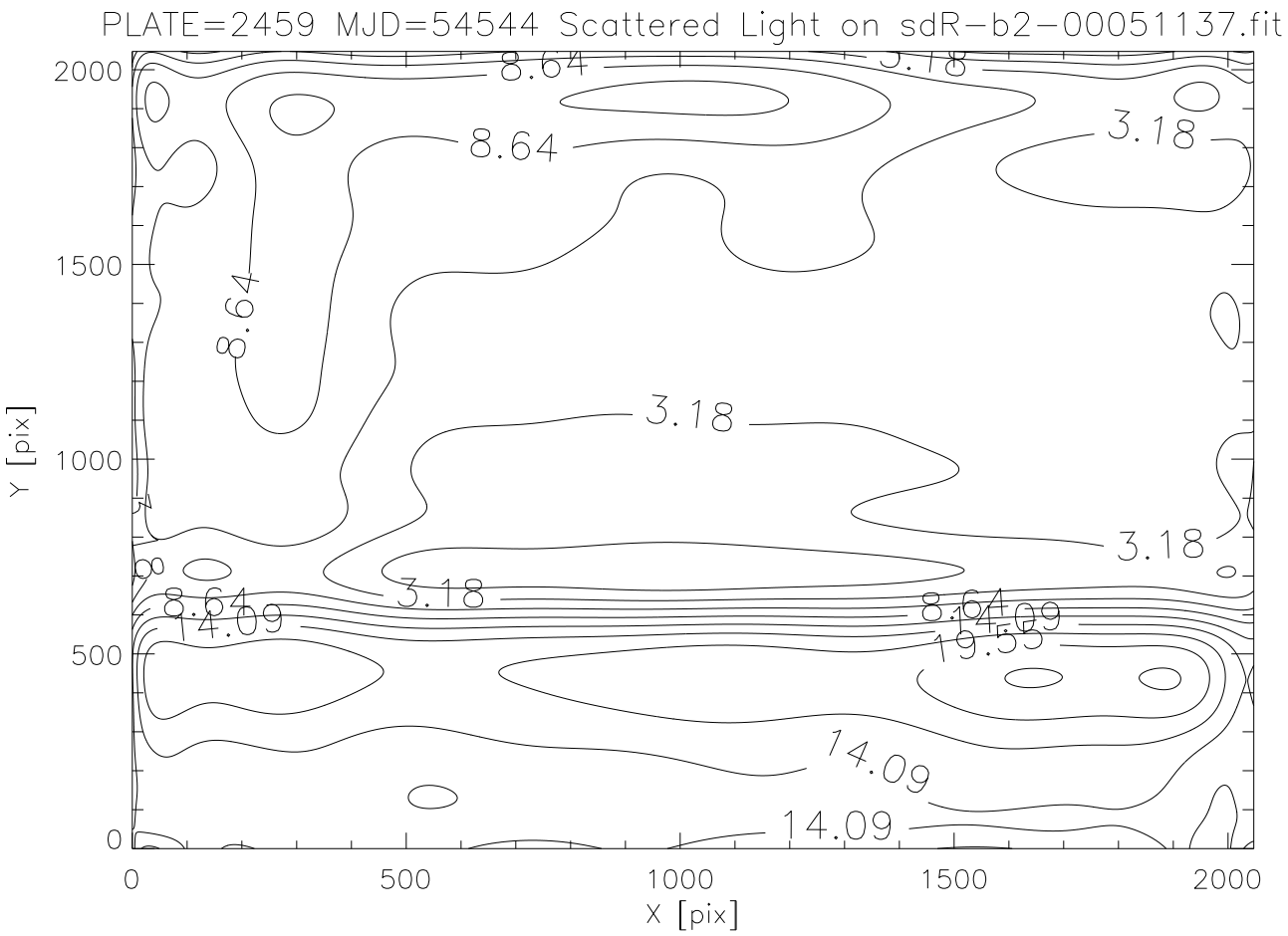

PLATE=2459 MJD=54544 sdR-b2-00051134.fit Skyline Flux at 4359.5
RED = sky fiber
Dispersion = 35.88 %
Flux (4359.5)/Airmass
Fiber number
Focal Distance [mm]
Airmass

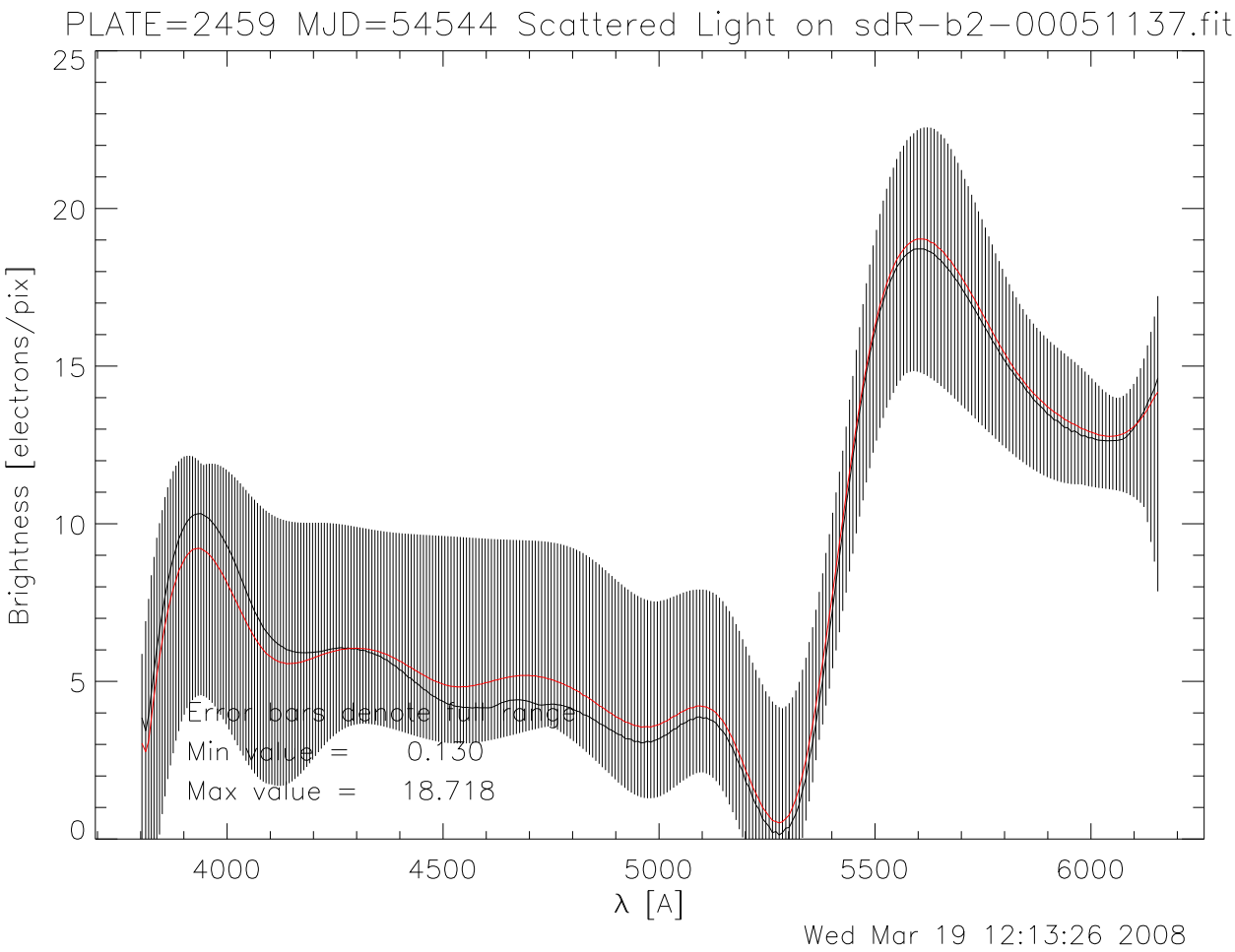

PLATE=2459 MJD=54544 sdR-b2-00051134.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.61 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

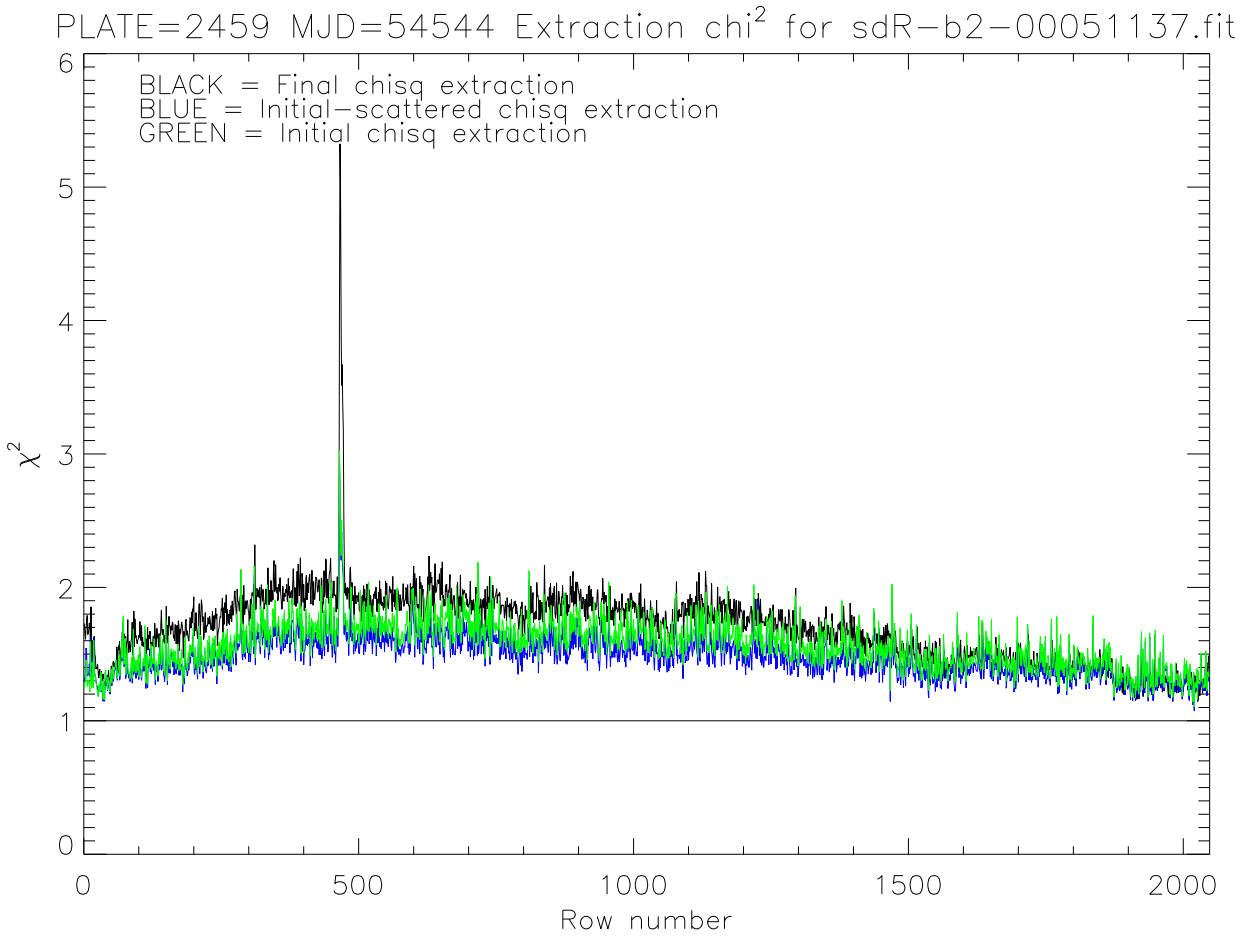

PLATE=2459 MJD=54544 Fiber-Flats for sdR-b2-00051139.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.735
Max value = 1.166
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 19 12:10:33 2008

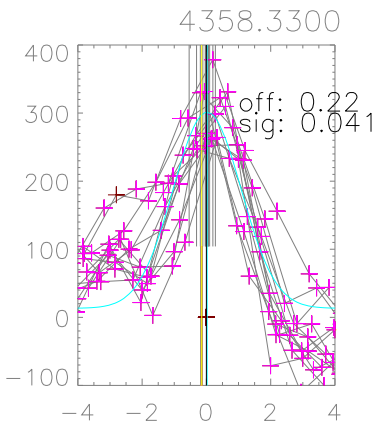

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-b2-00051137.f
Y [pix]
X [pix]
0
500
1000
1500
2000
25.5
32.7
0

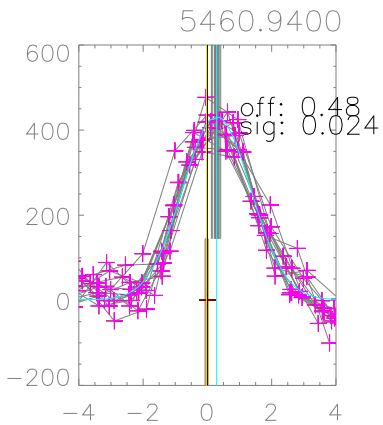

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-b2-00051137.f
Brightness [electrons/pix]
40
30
20
10
0
Error bars denote full range
Min value = 20.984
Max value = 31.973
4000
4500
5000
5500
6000
λ [A]
Wed Mar 19 12:11:18 2008

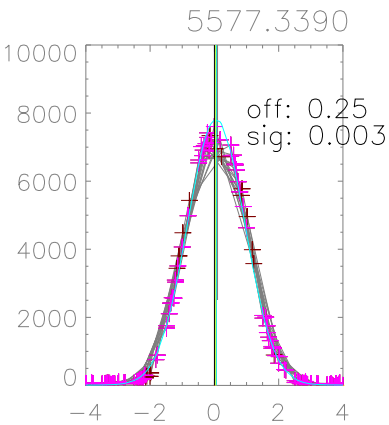

PLATE=2459 MJD=54544 Scattered Light on sdR-b2-00051137.fit
8.64
3.18
8.64
3.18
8.64
3.18
3.18
8.64
14.09
14.09
19.55
14.09
14.09
Y [pix]
X [pix]
0
500
1000
1500
2000

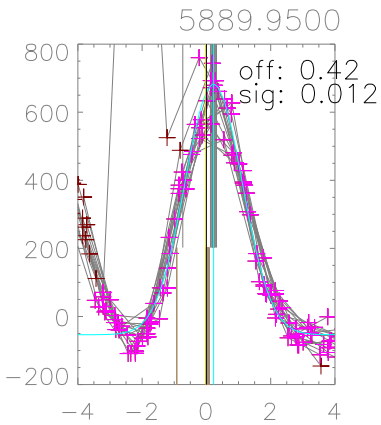

PLATE=2459 MJD=54544 Scattered Light on sdR-b2-00051137.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 0.130
Max value = 18.718
Wed Mar 19 12:13:26 2008

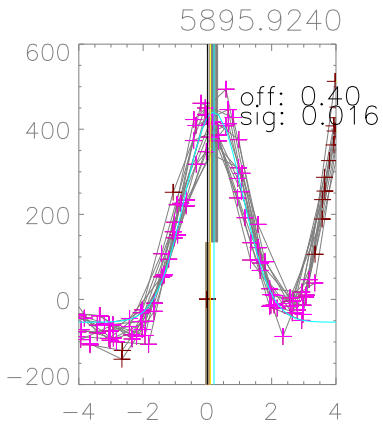

PLATE=2459 MJD=54544 Extraction chi^2 for sdR-b2-00051137.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

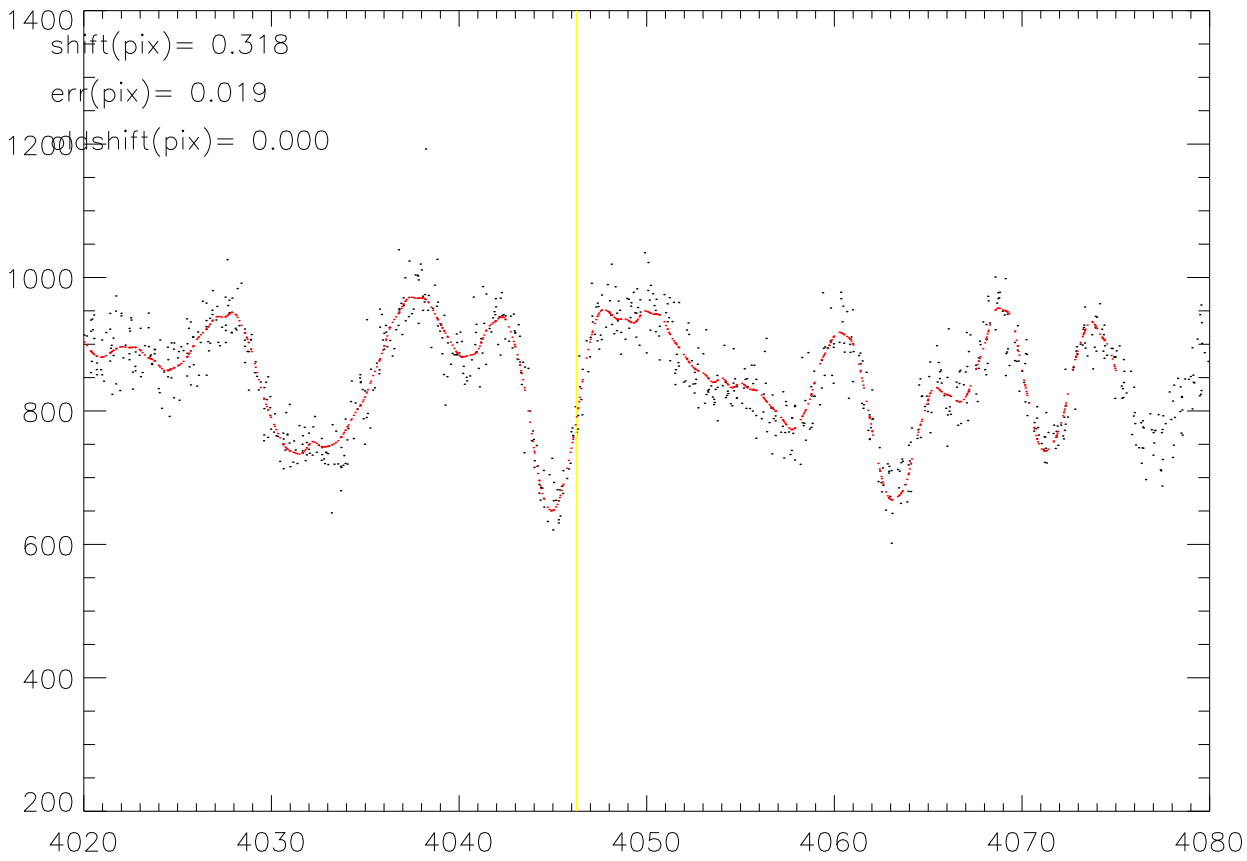

4358.3300
off: 0.22
sig: 0.041

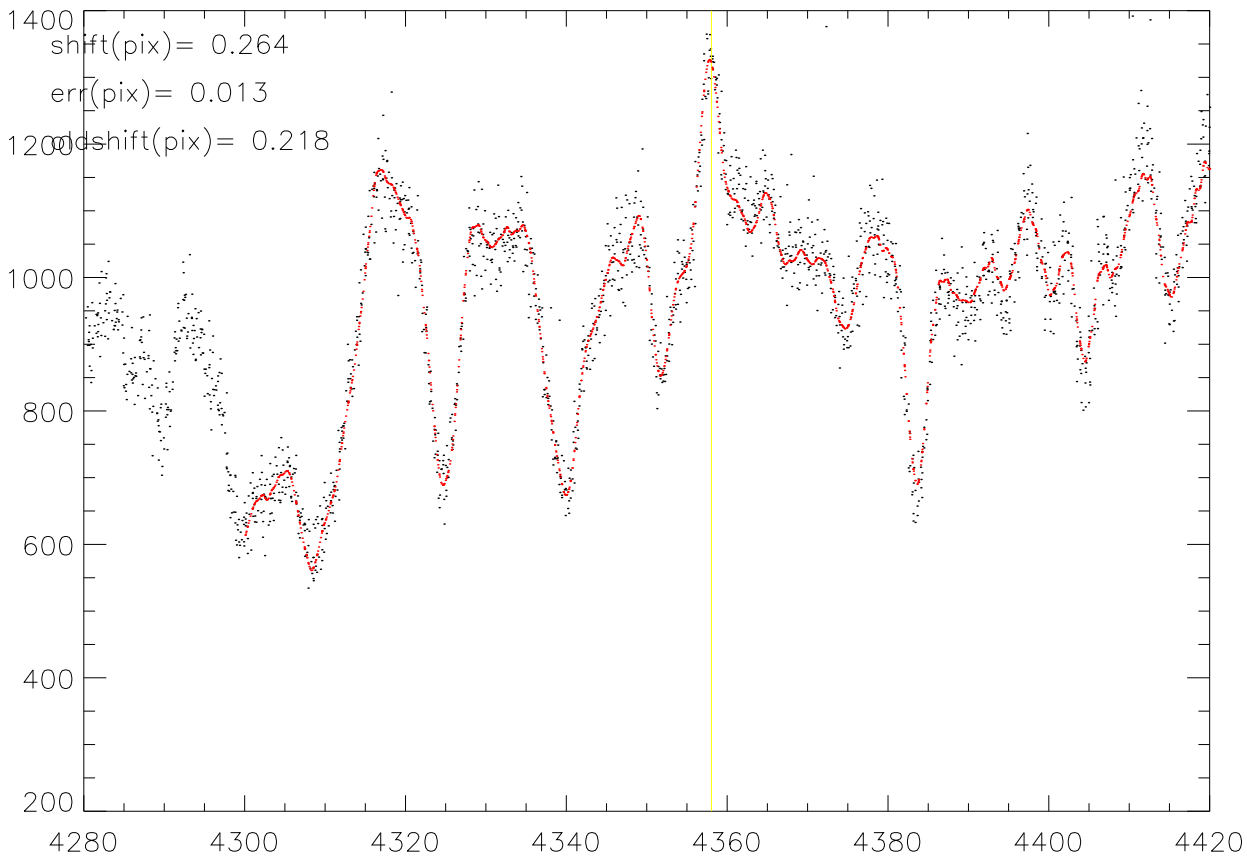

5460.9400
off: 0.48
sig: 0.024

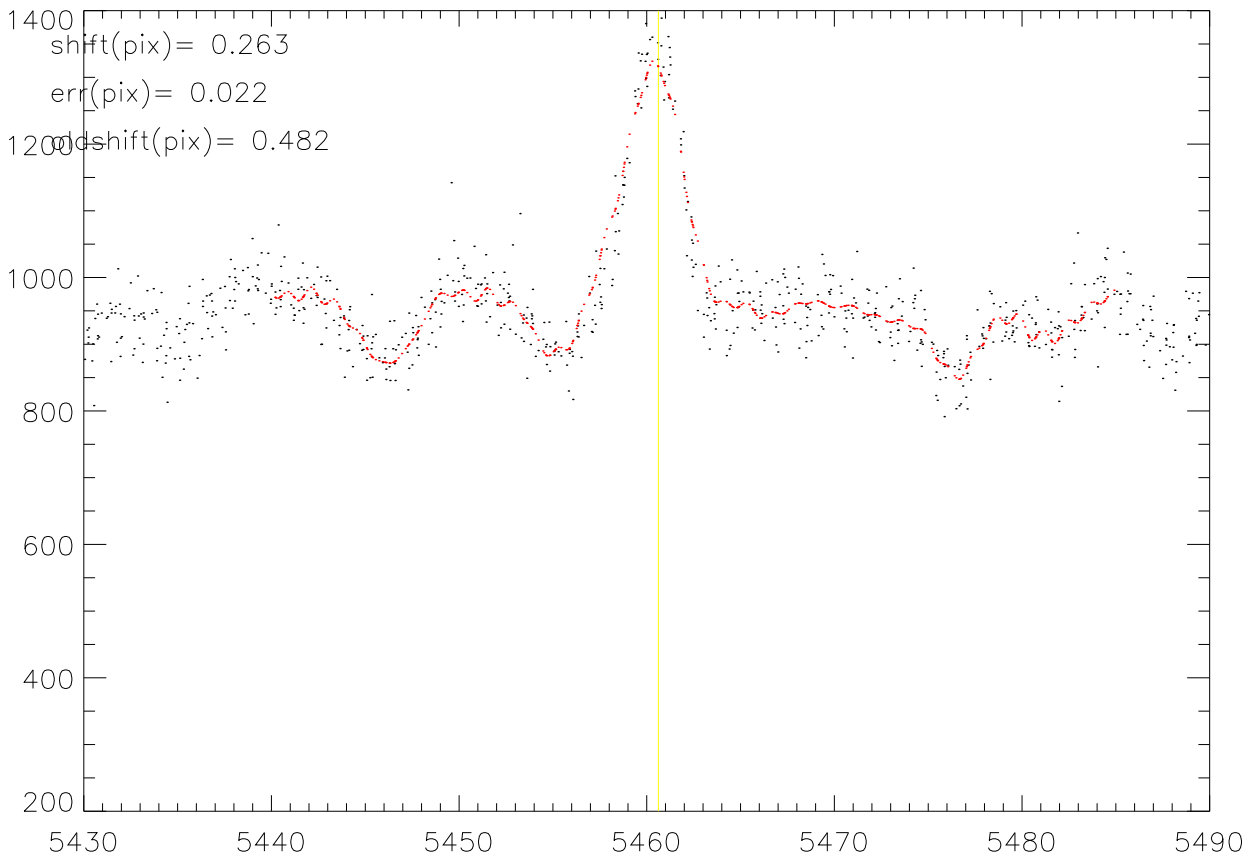

5577.3390
off: 0.25
sig: 0.003

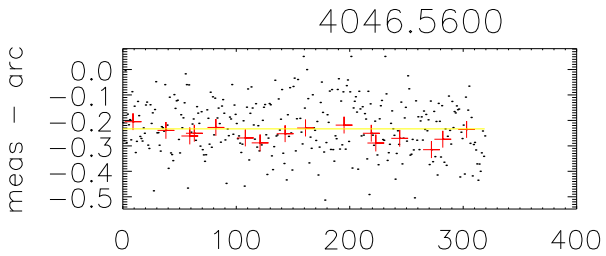

5889.9500
off: 0.42
sig: 0.012

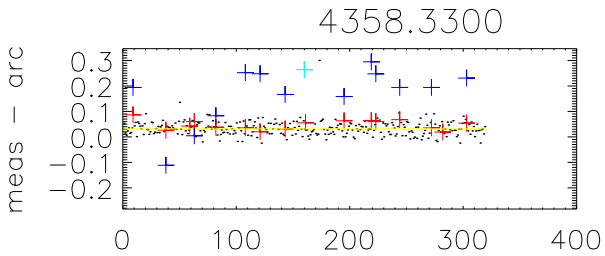

5895.9240
off: 0.40
sig: 0.016

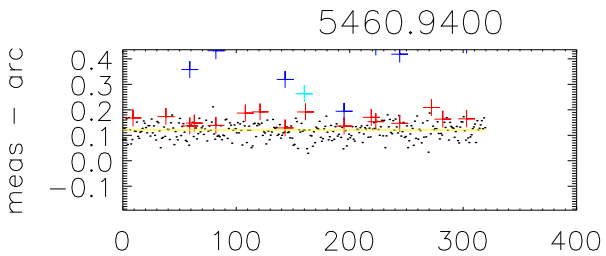

shift(pix)= 0.318
err(pix)= 0.019
oldshift(pix)= 0.000
1400
1200
1000
800
600
400
200
4020
4030
4040
4050
4060
4070
4080

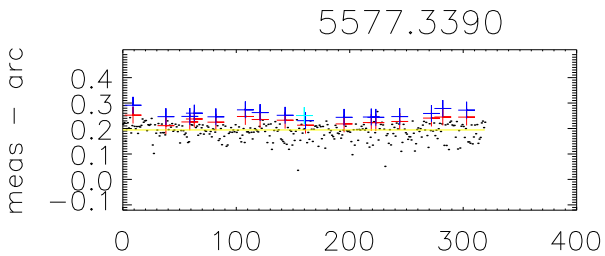

shift(pix)= 0.264
err(pix)= 0.013
oldshift(pix)= 0.218
1400
1200
1000
800
600
400
200
4280
4300
4320
4340
4360
4380
4400
4420

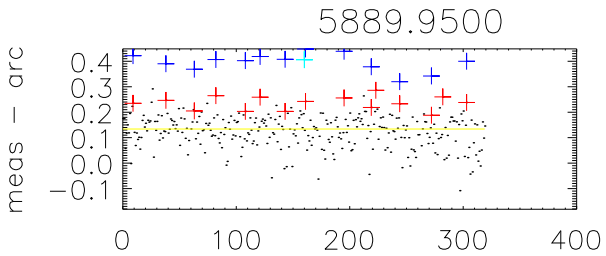

shift(pix)= 0.263
err(pix)= 0.022
oldshift(pix)= 0.482
1400
1200
1000
800
600
400
200
5430
5440
5450
5460
5470
5480
5490

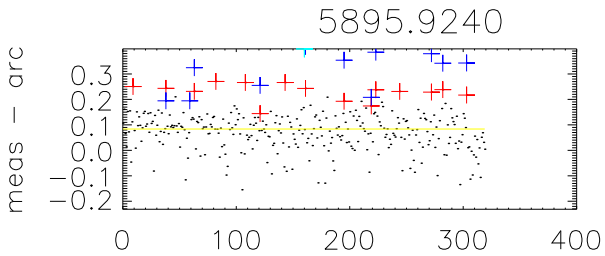

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

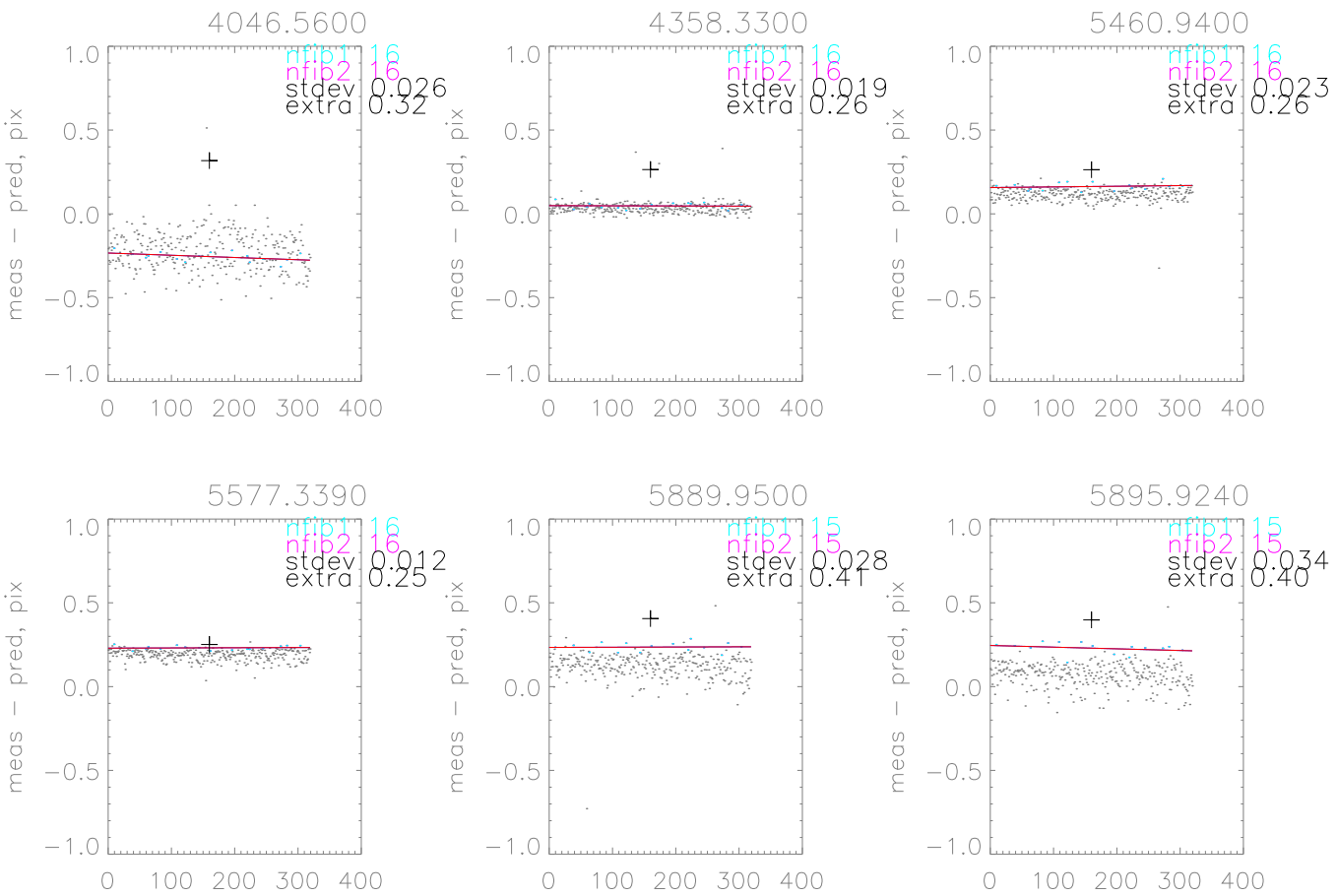

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

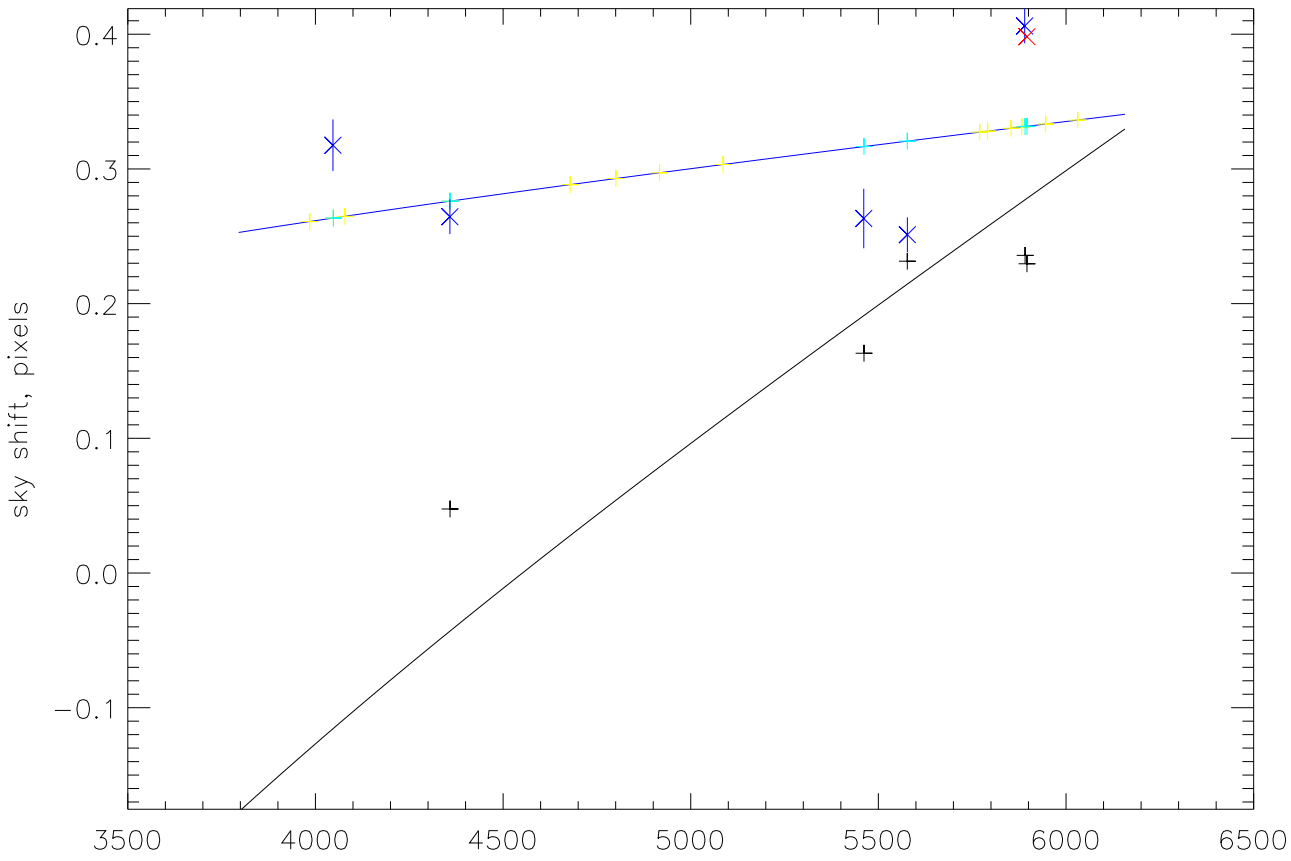

5460.9400
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

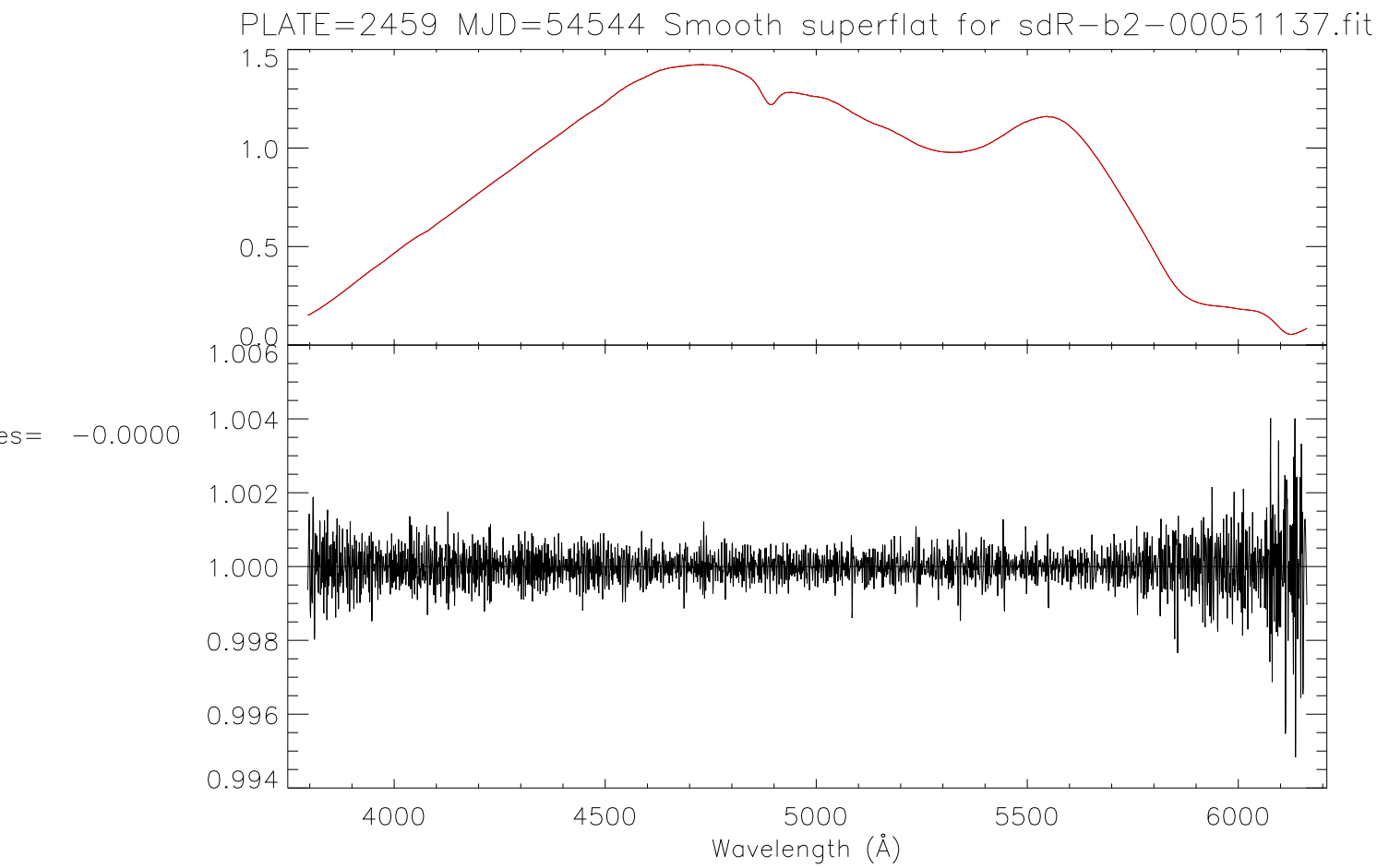

5577.3390
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

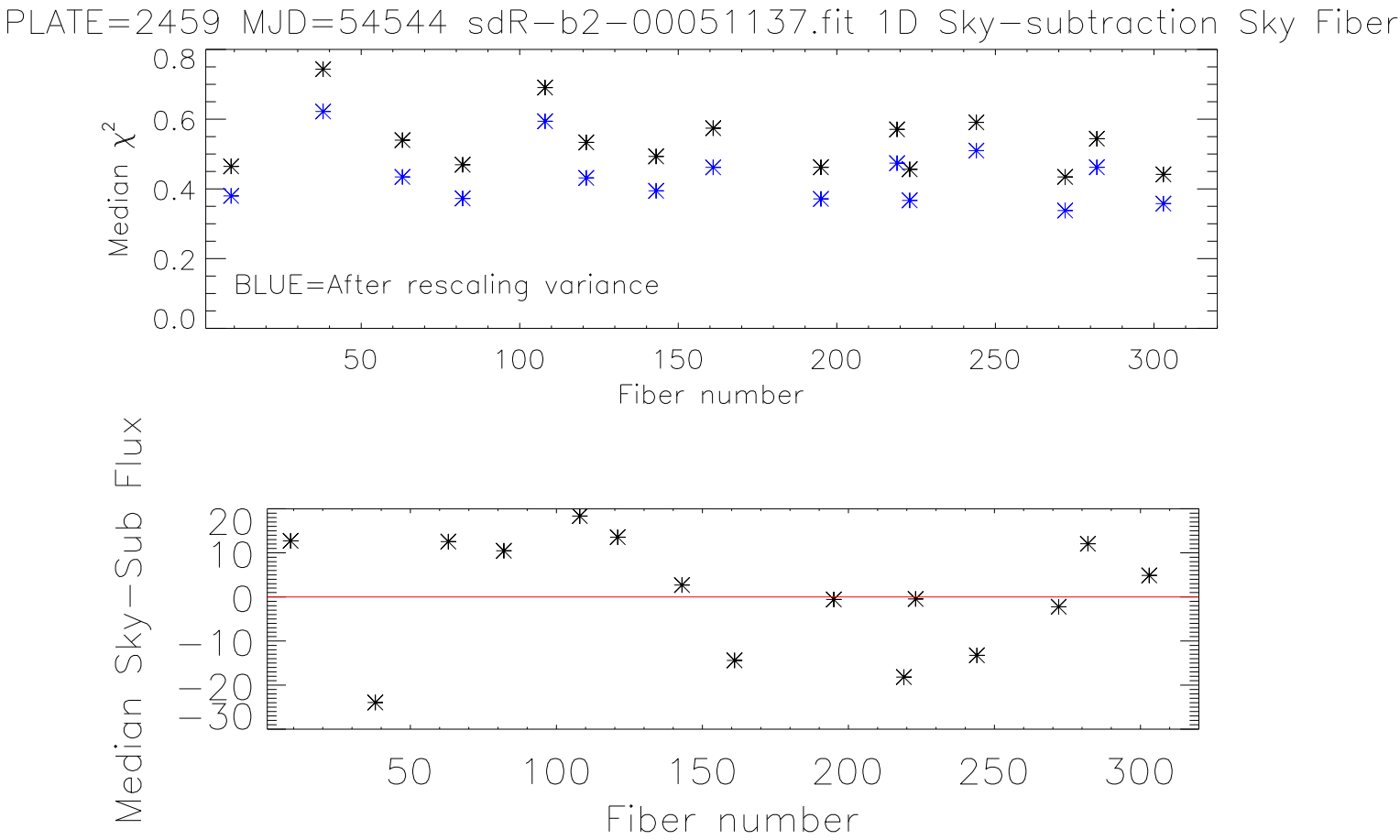

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

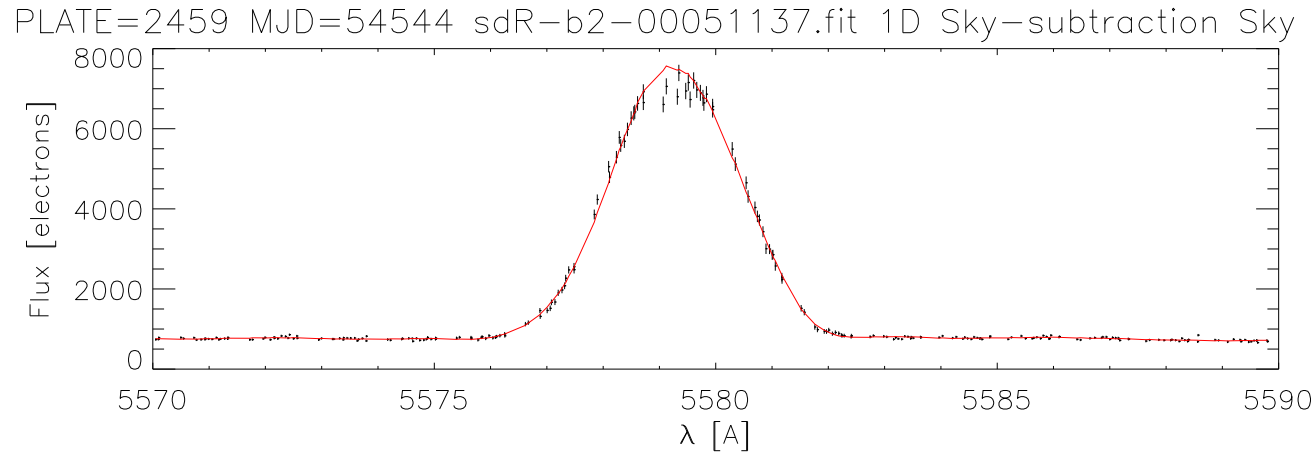

4046.5600
nfib1 16
nfib2 16
stdev 0.026
extra 0.32
4358.3300
nfib1 16
nfib2 16
stdev 0.019
extra 0.26
5460.9400
nfib1 16
nfib2 16
stdev 0.023
extra 0.26
5577.3390
nfib1 16
nfib2 16
stdev 0.012
extra 0.25
5889.9500
nfib1 15
nfib2 15
stdev 0.028
extra 0.41
5895.9240
nfib1 15
nfib2 15
stdev 0.034
extra 0.40
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

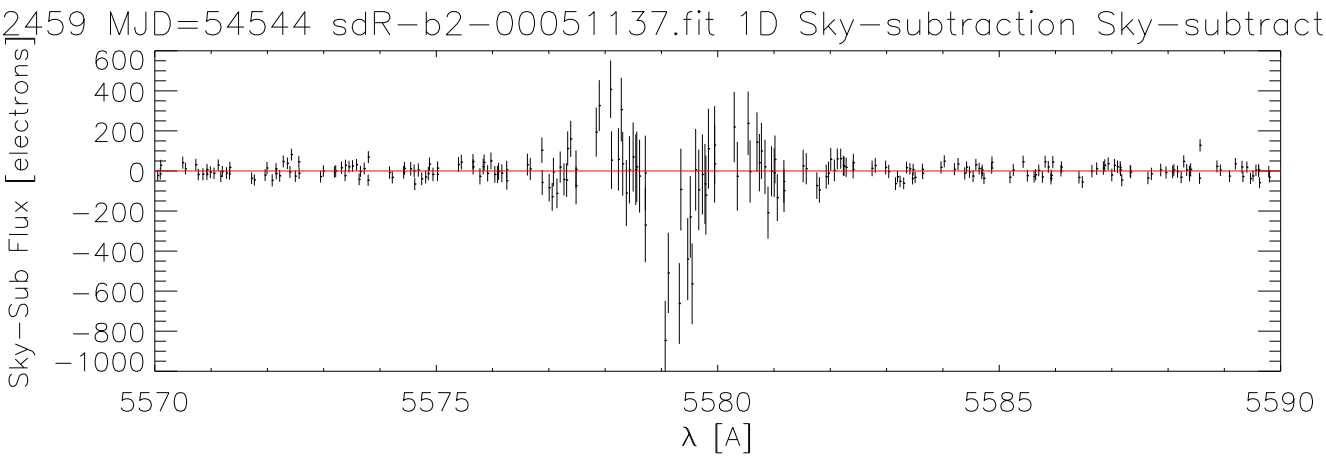

sky shift, pixels
0.4
0.3
0.2
0.1
0.0
−0.1
3500
4000
4500
5000
5500
6000
6500

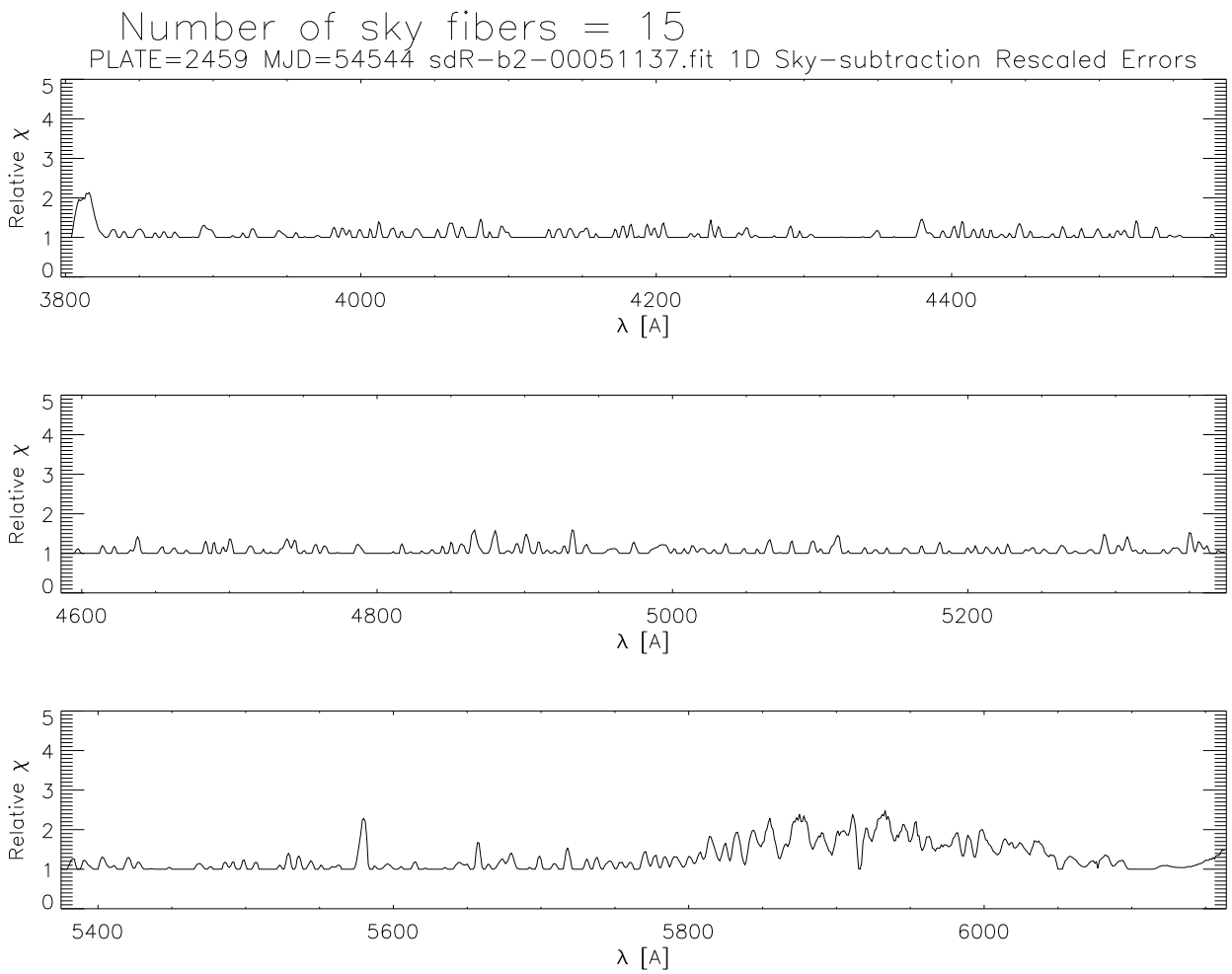

PLATE=2459 MJD=54544 Smooth superflat for sdR-b2-00051137.fit
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
4000
4500
5000
5500
6000
Wavelength (Å)

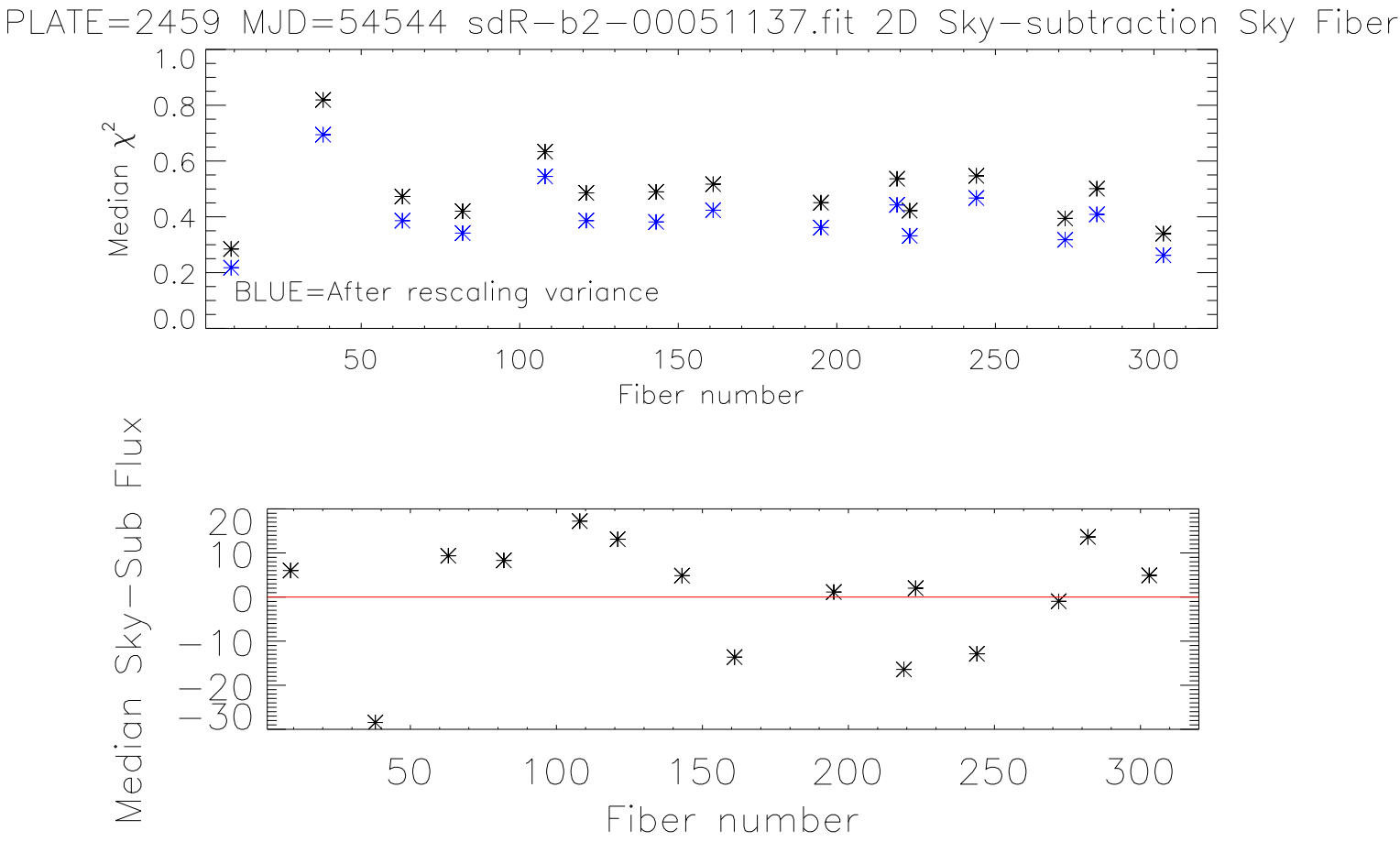
es= −0.0000

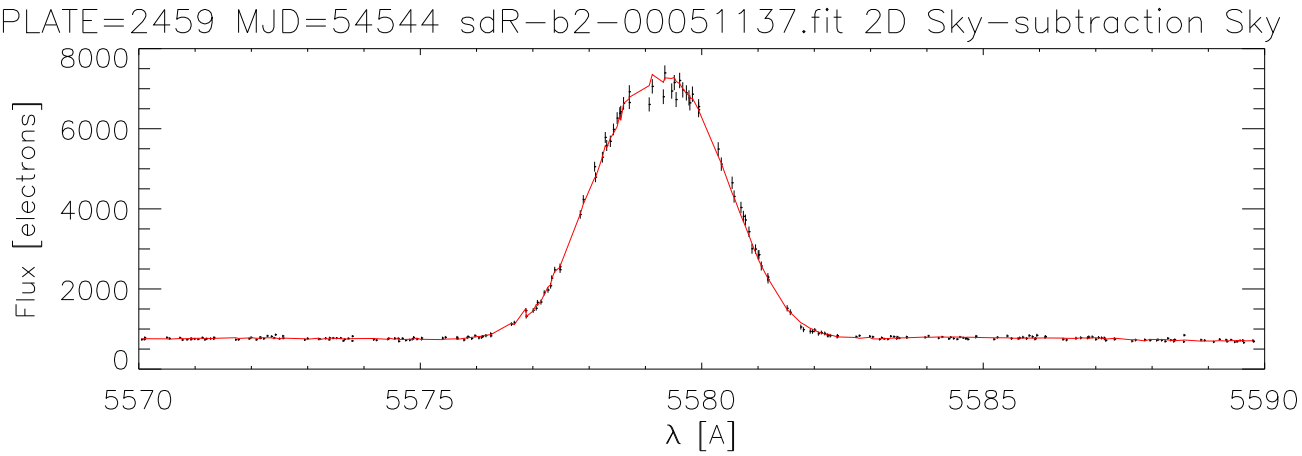

PLATE=2459 MJD=54544 sdR-b2-00051137.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
10
0
-10
-20
-30
50
100
150
200
250
300
Fiber number

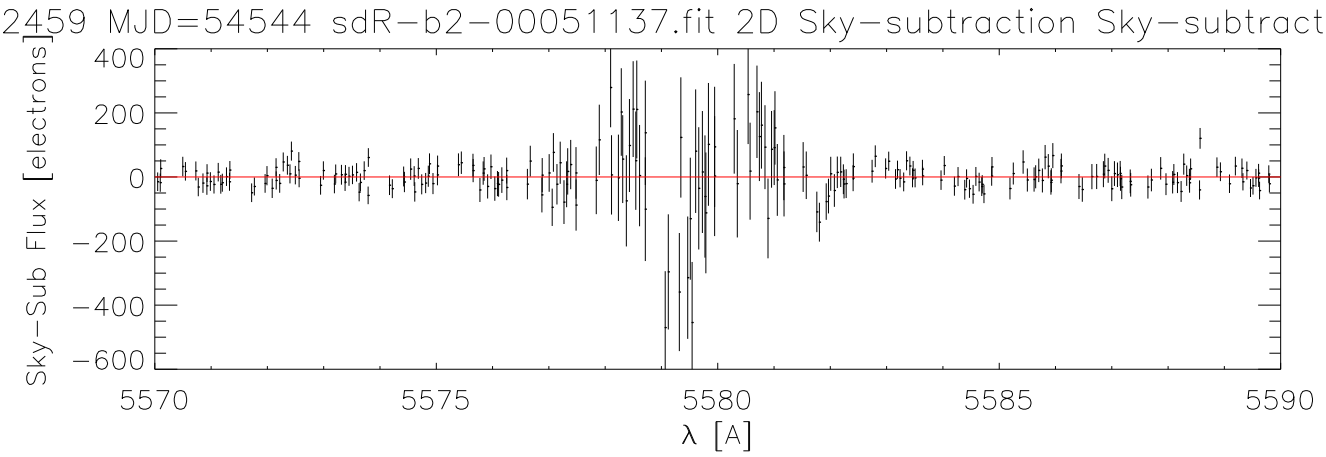

PLATE=2459 MJD=54544 sdR-b2-00051137.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

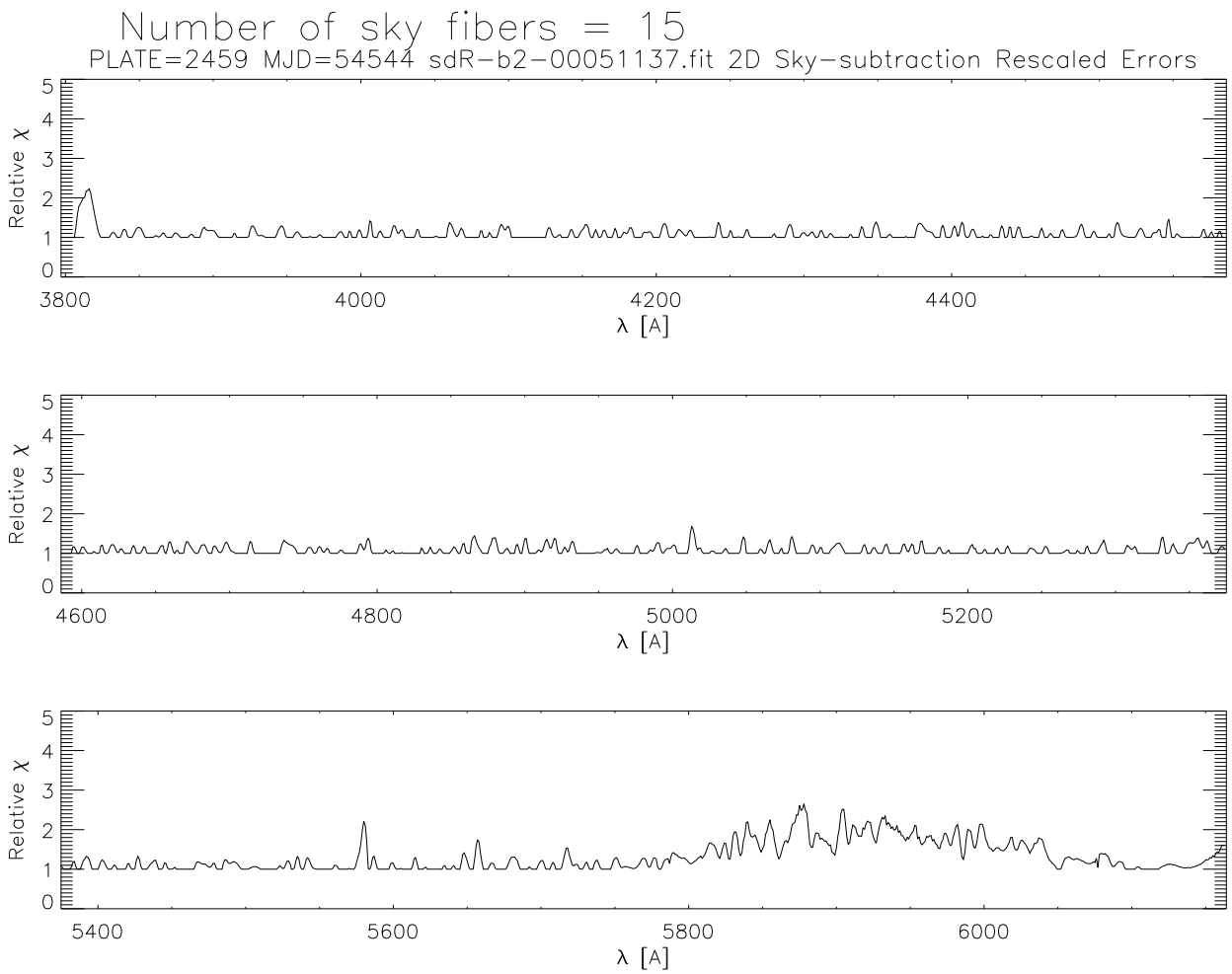

PLATE=2459 MJD=54544 sdR-b2-00051137.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
-600
-800
-1000
5570
5575
5580
5585
5590
λ [A]

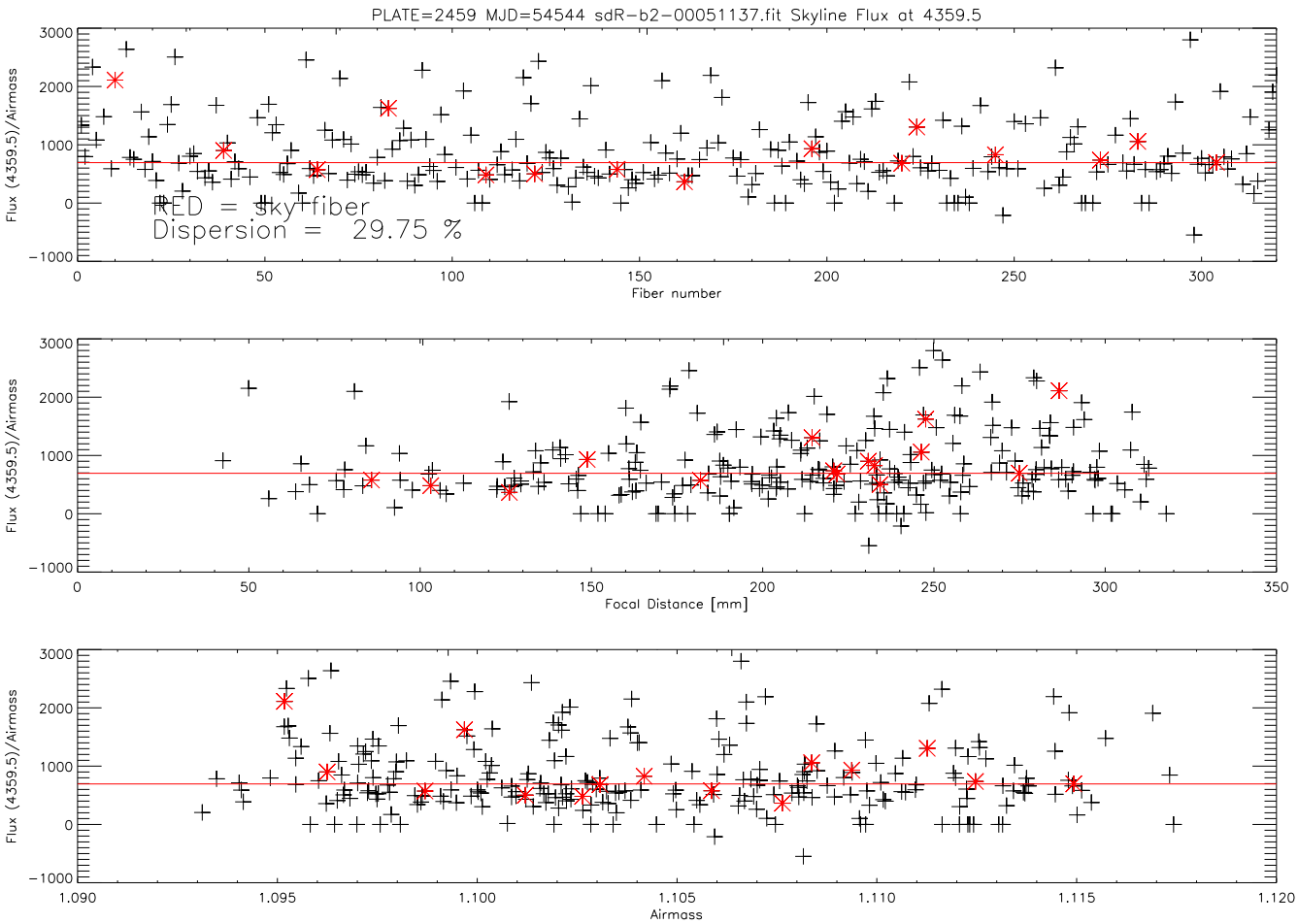

Number of sky fibers = 15
PLATE=2459 MJD=54544 sdR-b2-00051137.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

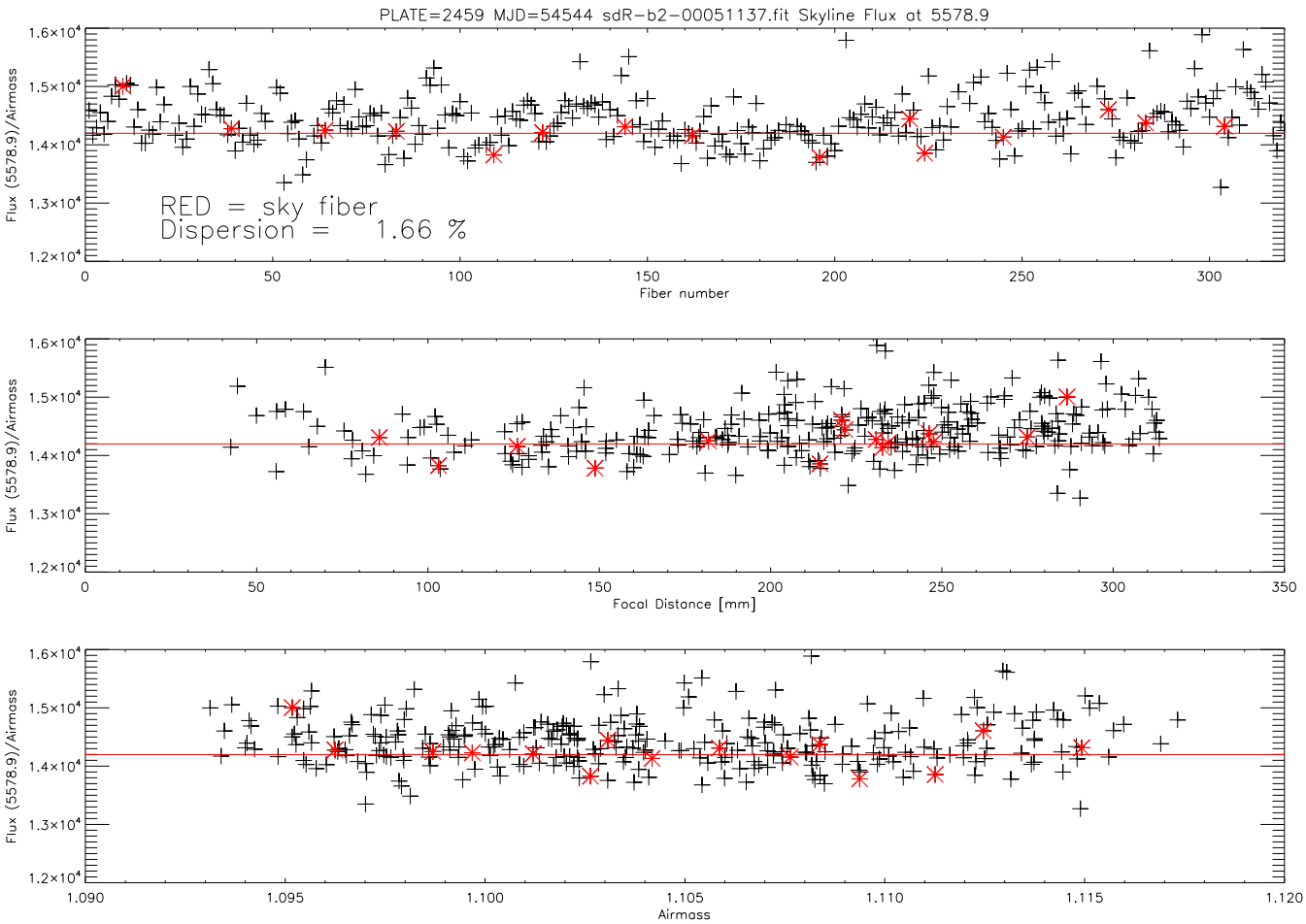

PLATE=2459 MJD=54544 sdR-b2-00051137.fit 2D Sky-subtraction Sky Fiber
Median χ^2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
10
0
-10
-20
-30
50
100
150
200
250
300
Fiber number

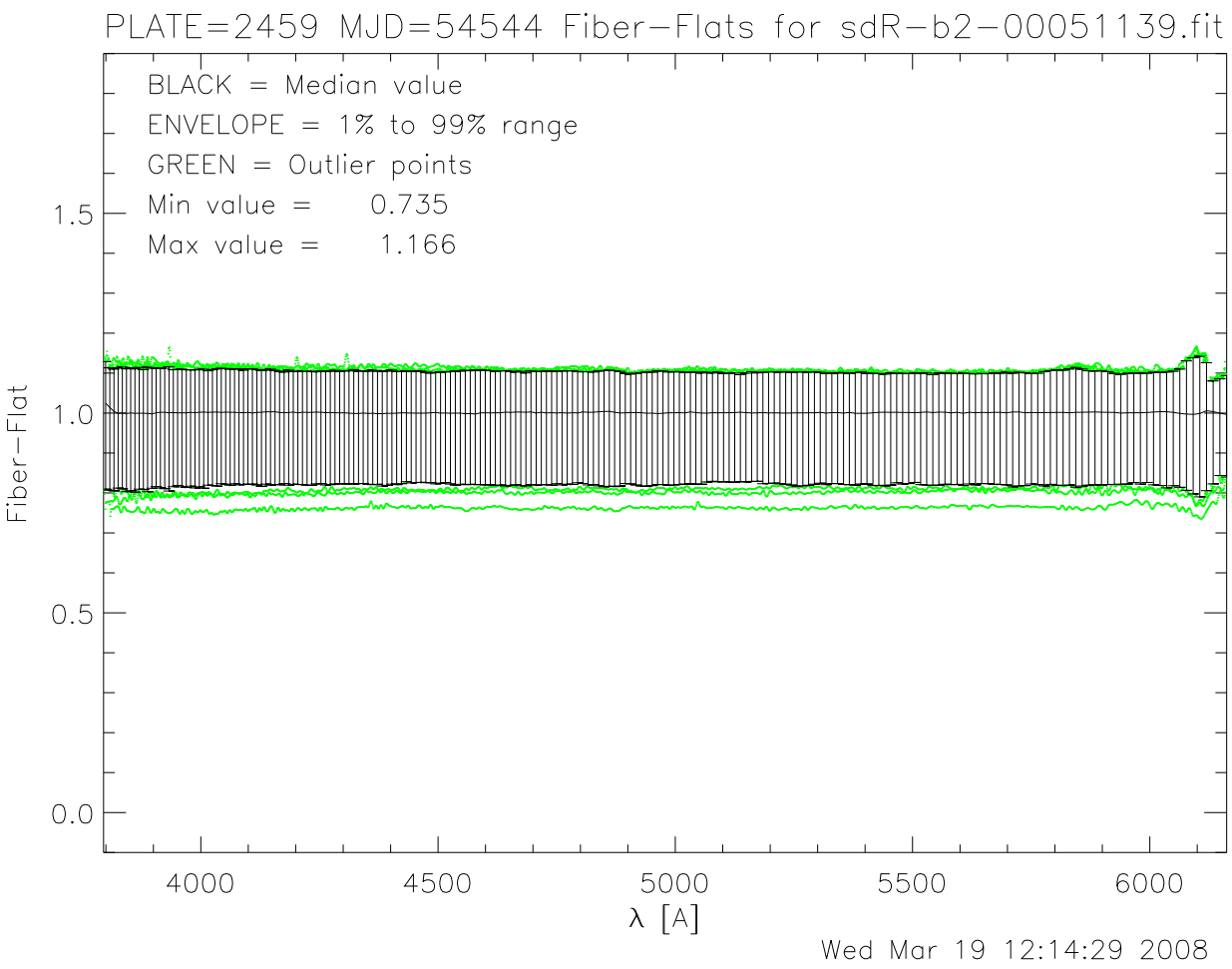

PLATE=2459 MJD=54544 sdR-b2-00051137.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

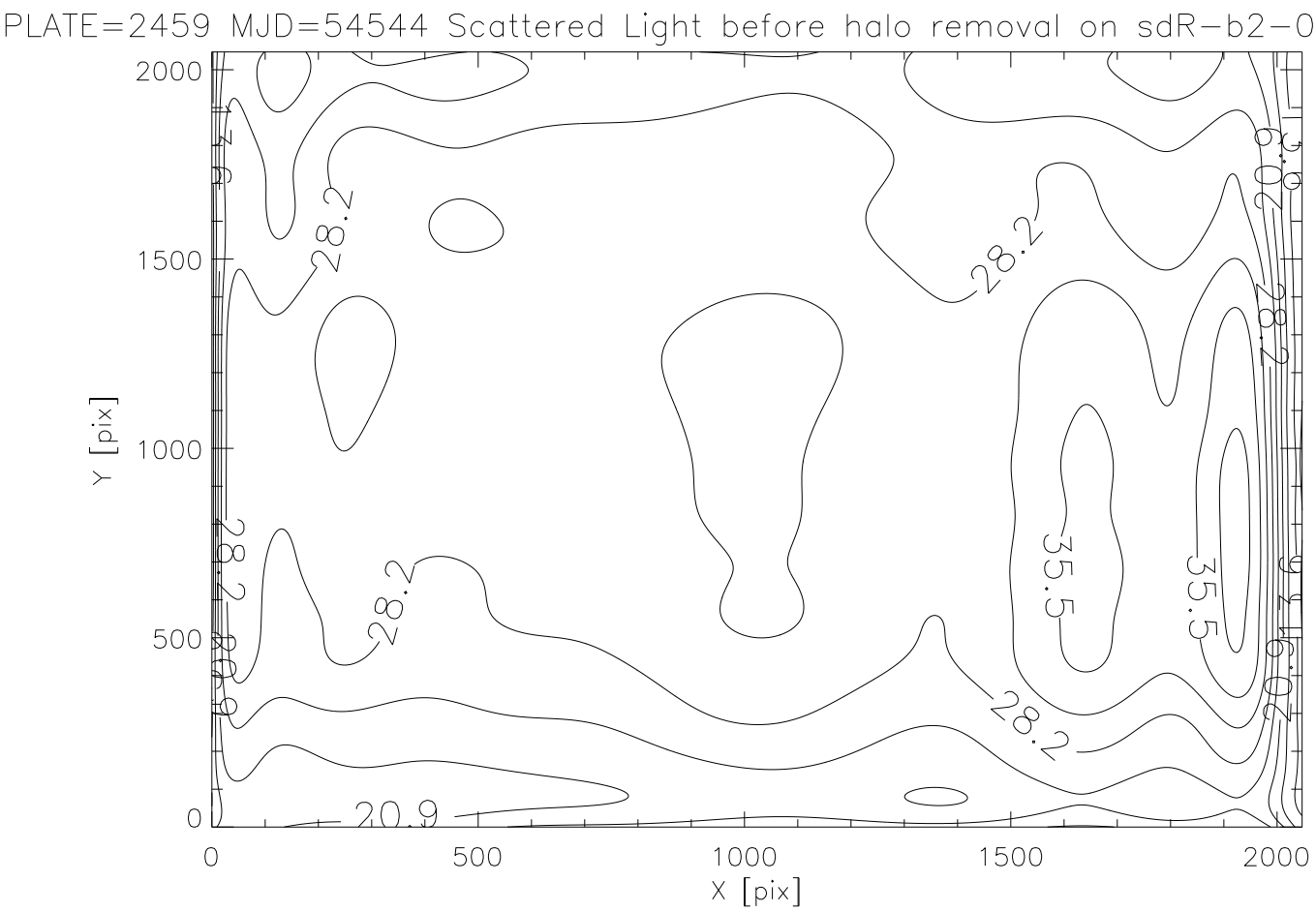

PLATE=2459 MJD=54544 sdR-b2-00051137.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

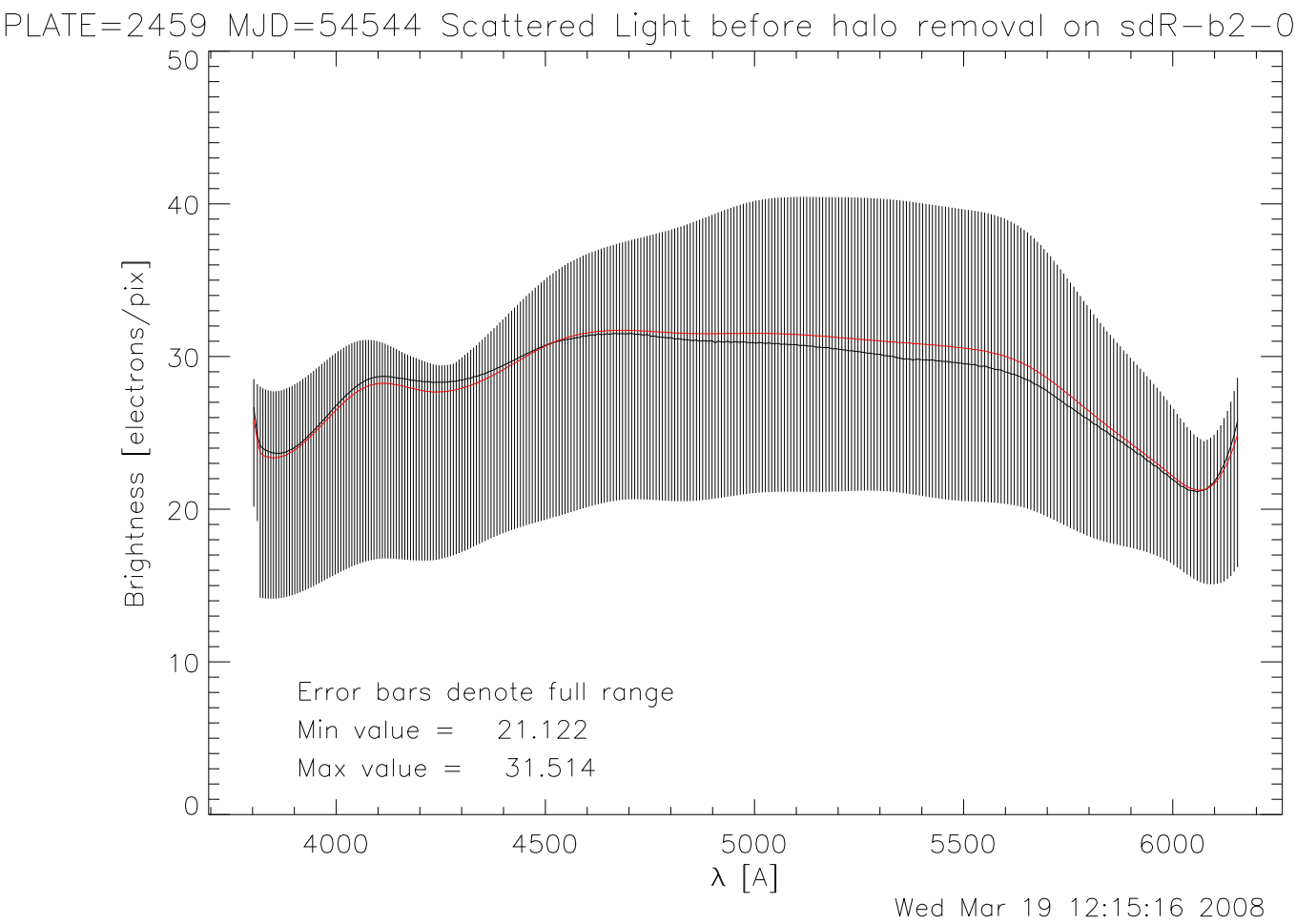

Number of sky fibers = 15
PLATE=2459 MJD=54544 sdR-b2-00051137.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

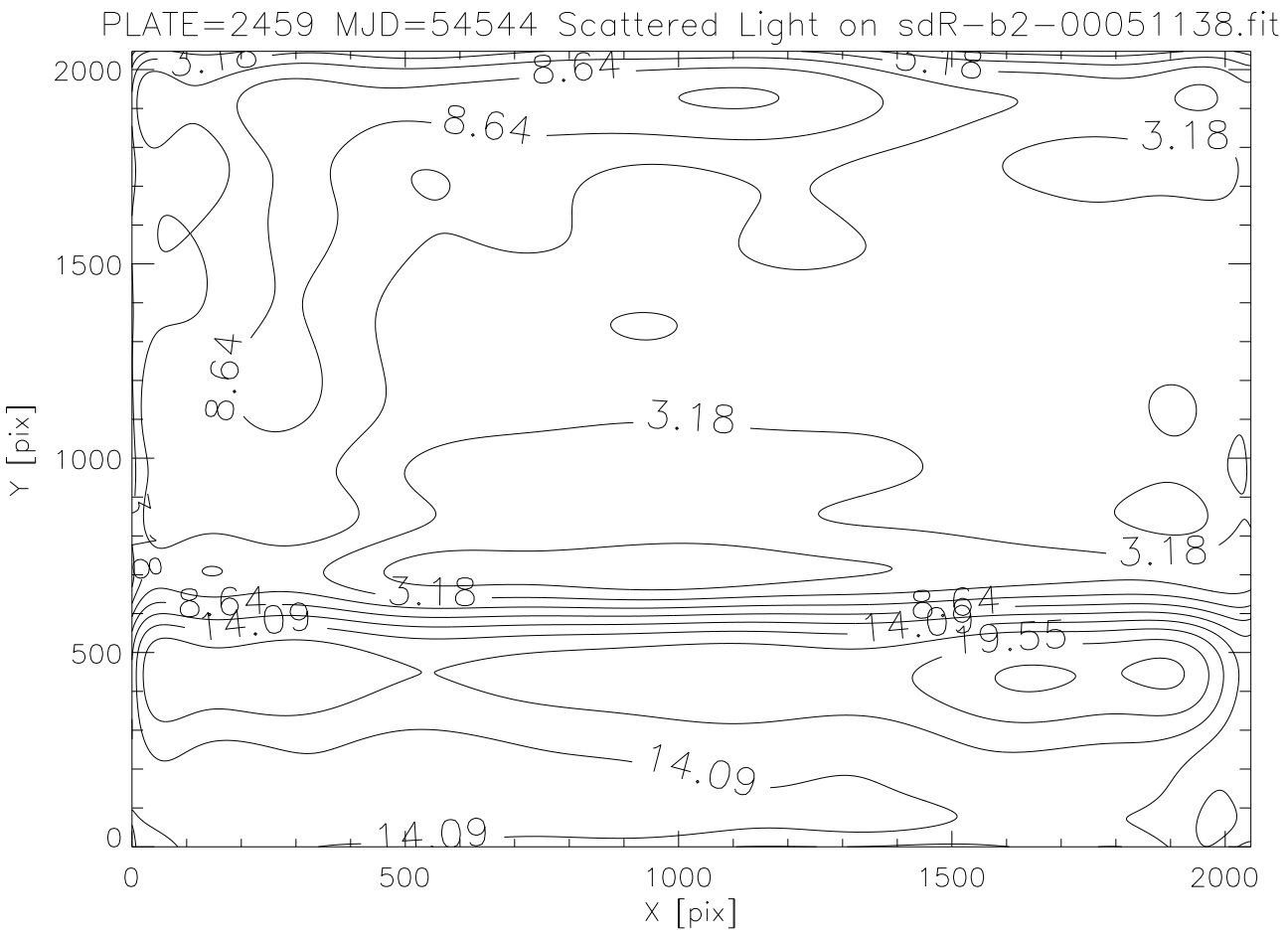

PLATE=2459 MJD=54544 sdR-b2-00051137.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 29.75 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

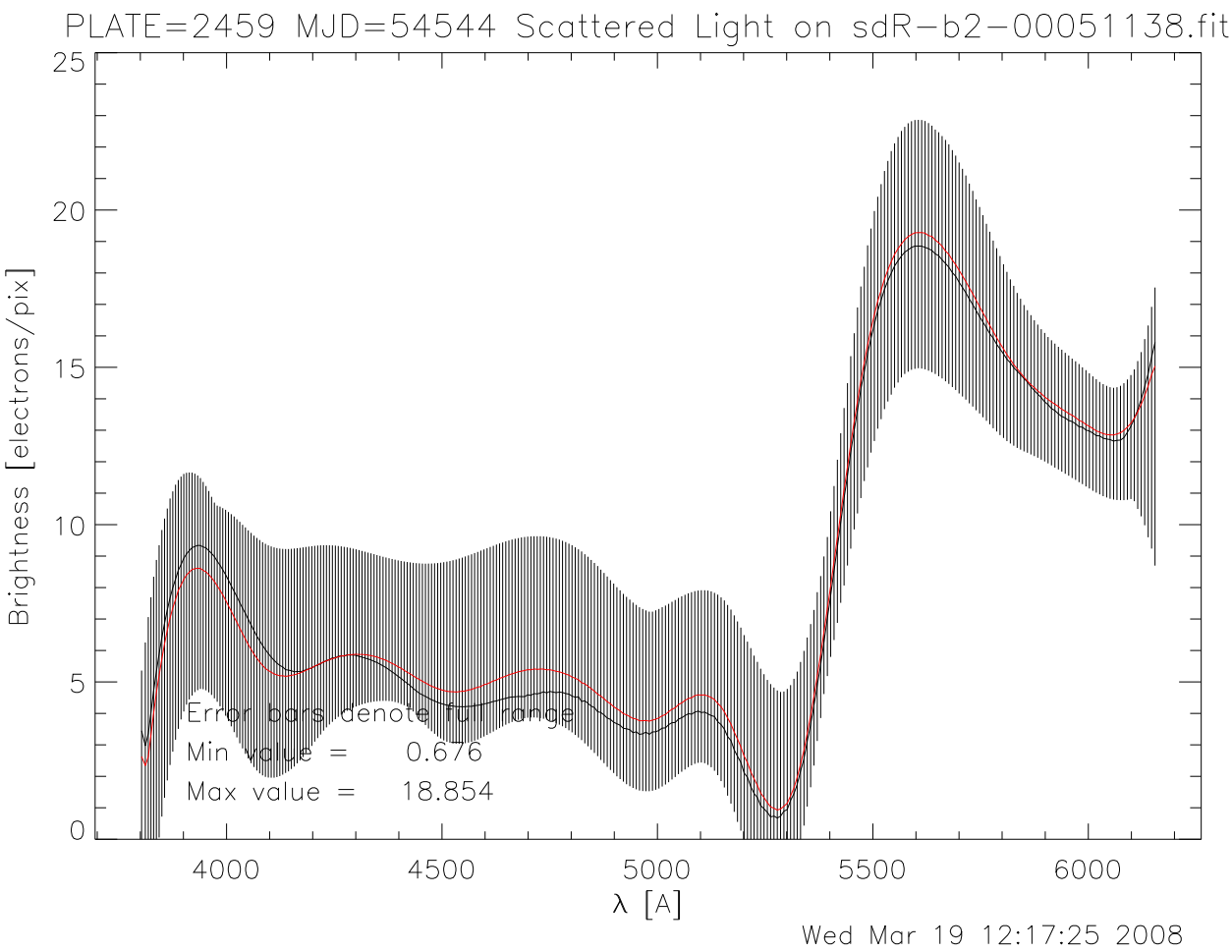

PLATE=2459 MJD=54544 sdR-b2-00051137.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.66 %
Fiber number
Focal Distance [mm]
Airmass

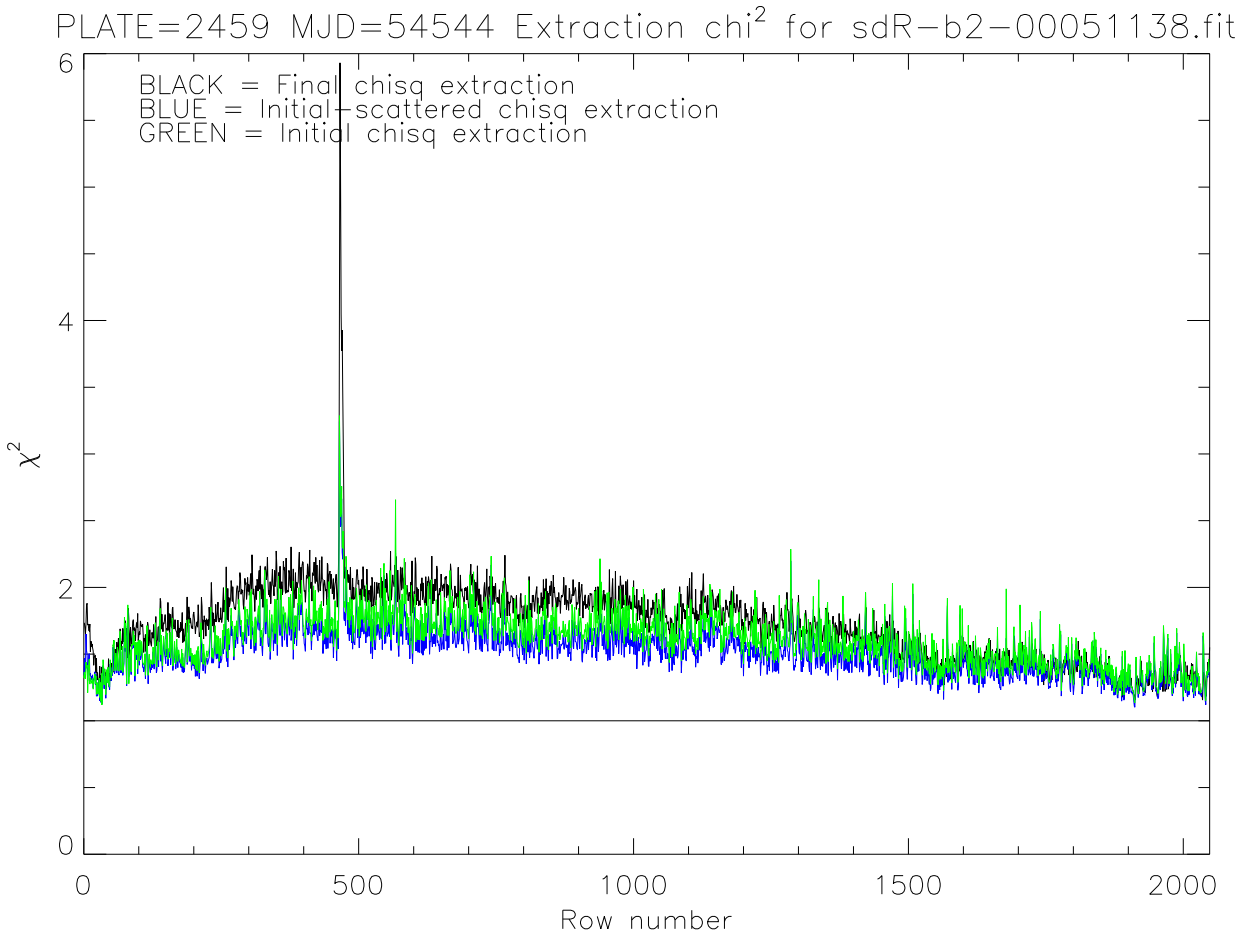

PLATE=2459 MJD=54544 Fiber−Flats for sdR−b2−00051139.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.735
Max value = 1.166
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 19 12:14:29 2008

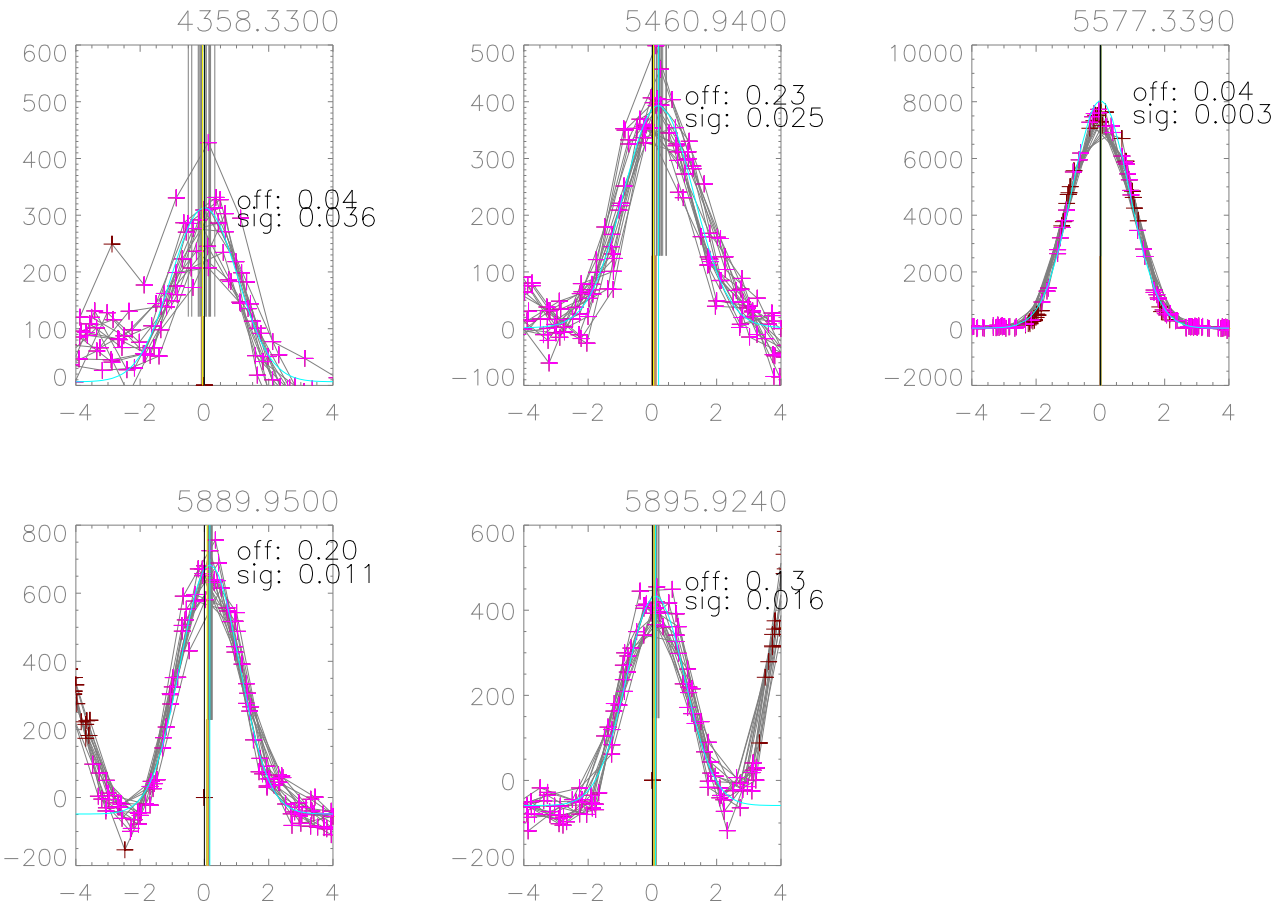

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-b2-00051138.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
28.2
35.5
20.9

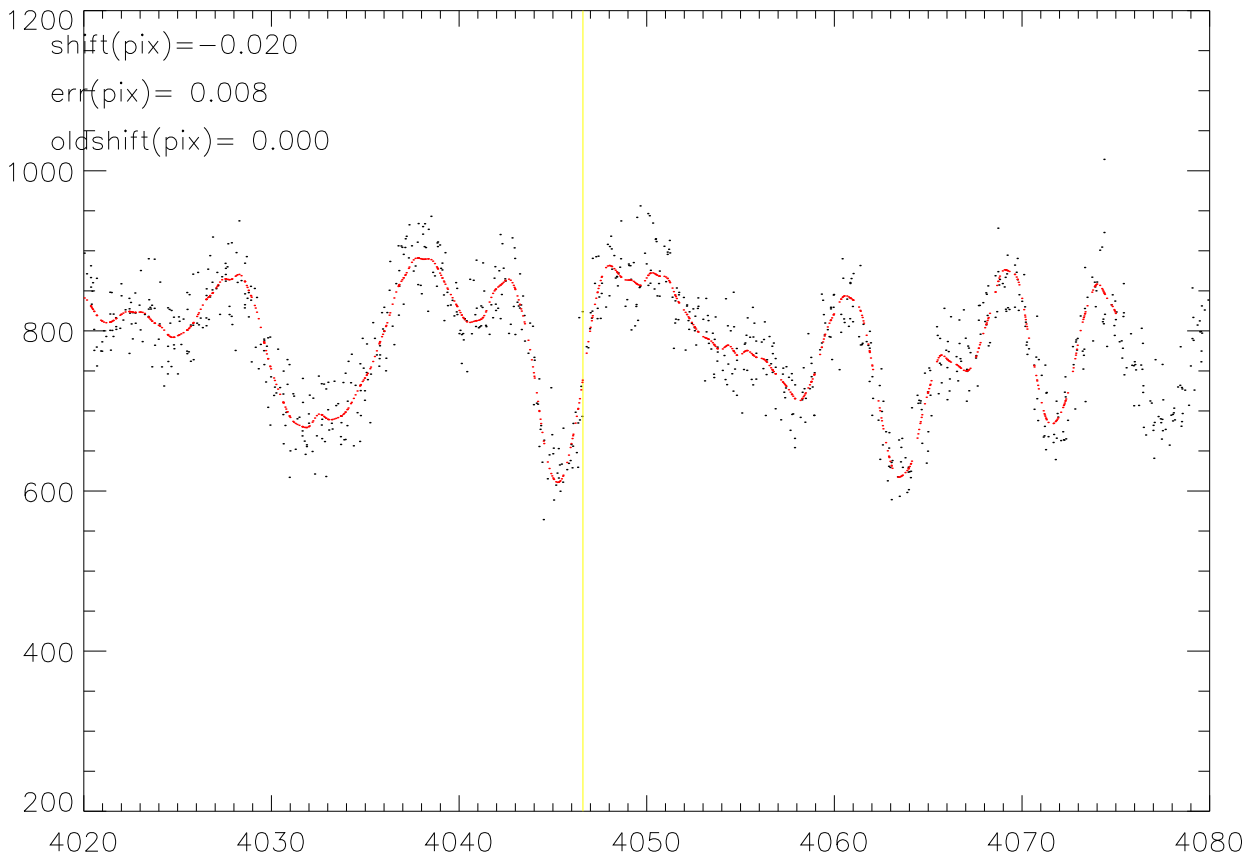

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-b2-00051138.f
Brightness [electrons/pix]
50
40
30
20
10
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 21.122
Max value = 31.514
Wed Mar 19 12:15:16 2008

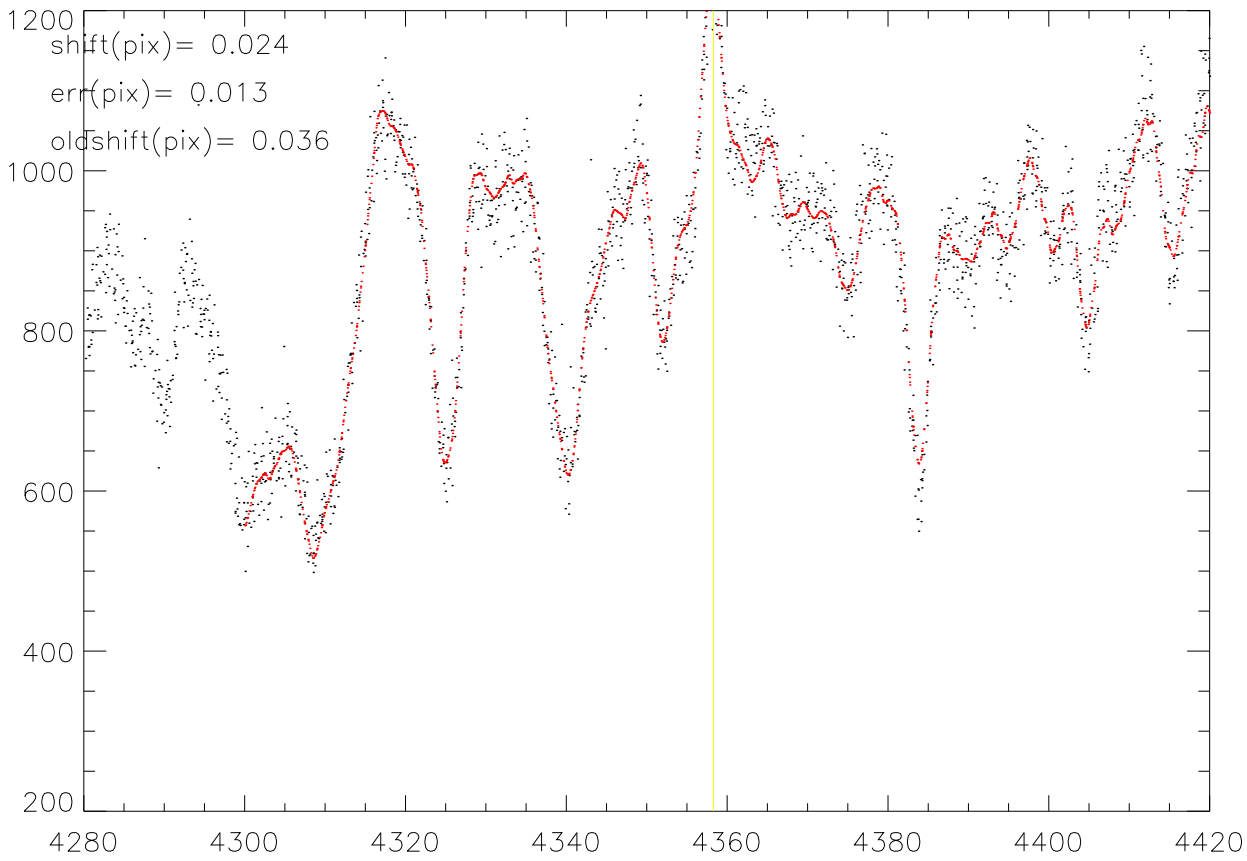

PLATE=2459 MJD=54544 Scattered Light on sdR-b2-00051138.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
3.18
8.64
14.09
19.55

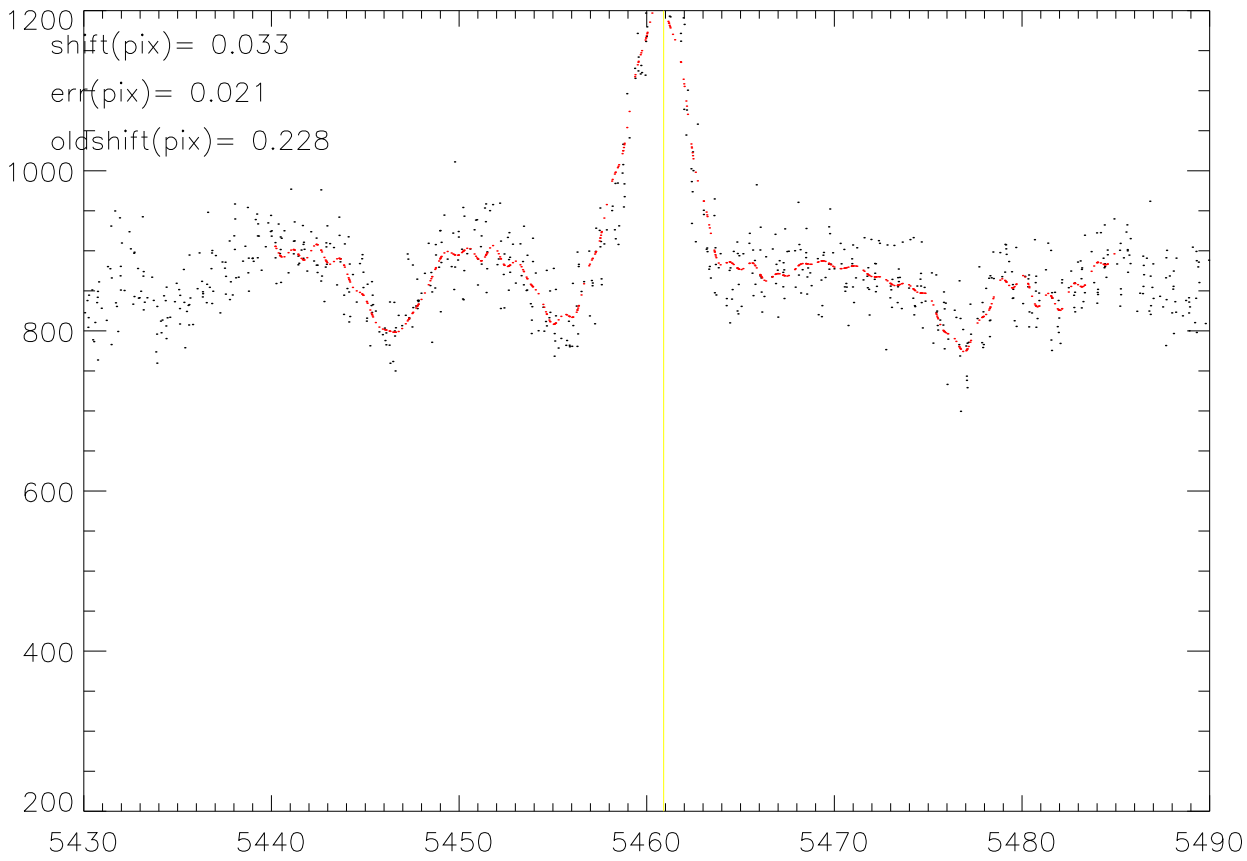

PLATE=2459 MJD=54544 Scattered Light on sdR-b2-00051138.fit
Brightness [electrons/pix]
25
20
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 0.676
Max value = 18.854
Wed Mar 19 12:17:25 2008

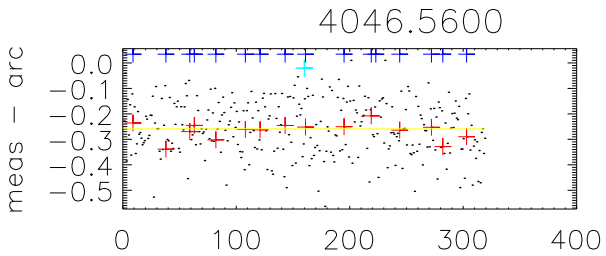

PLATE=2459 MJD=54544 Extraction chi^2 for sdR-b2-00051138.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
0
500
1000
1500
2000
Row number

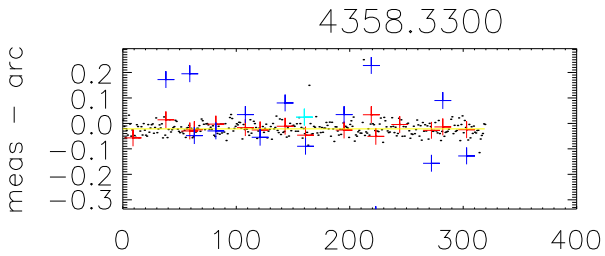

4358.3300
off: 0.04
sig: 0.036
5460.9400
off: 0.23
sig: 0.025
5577.3390
off: 0.04
sig: 0.003
5889.9500
off: 0.20
sig: 0.011
5895.9240
off: 0.13
sig: 0.016

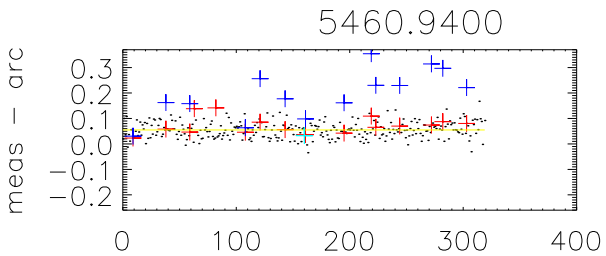

shift(pix)=−0.020
err(pix)= 0.008
oldshift(pix)= 0.000
1200
1000
800
600
400
200
4020
4030
4040
4050
4060
4070
4080

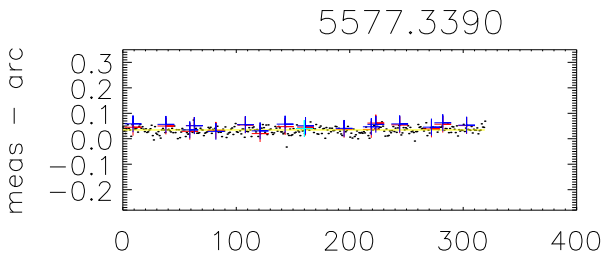

shift(pix)= 0.024
err(pix)= 0.013
oldshift(pix)= 0.036
1200
1000
800
600
400
200
4280
4300
4320
4340
4360
4380
4400
4420

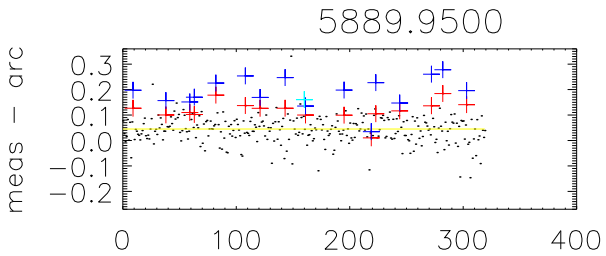

shift(pix)= 0.033
err(pix)= 0.021
oldshift(pix)= 0.228
1200
1000
800
600
400
200
5430
5440
5450
5460
5470
5480
5490

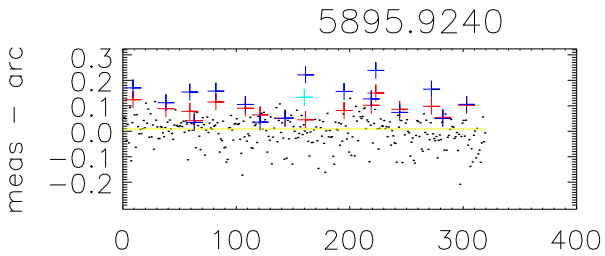

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

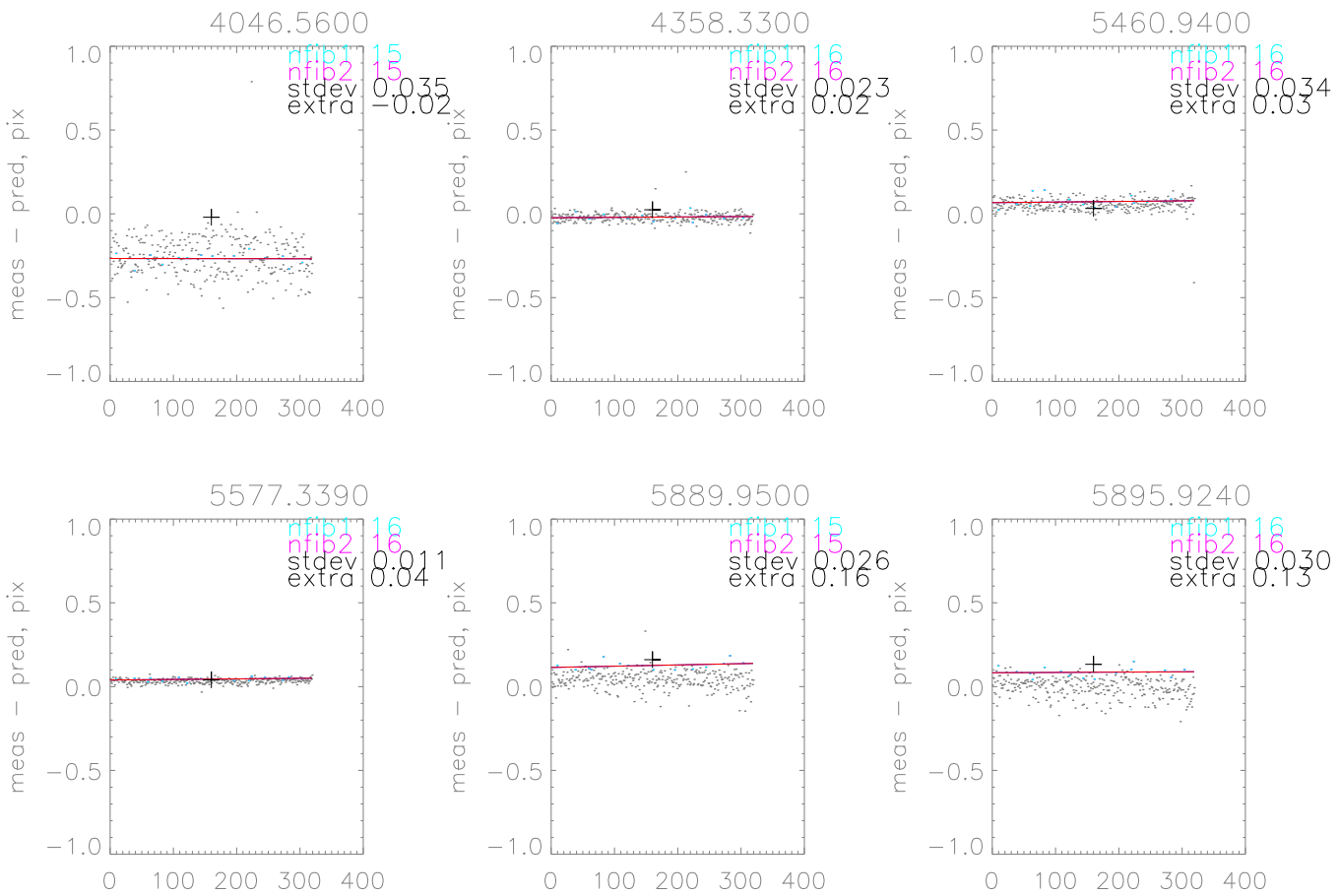

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

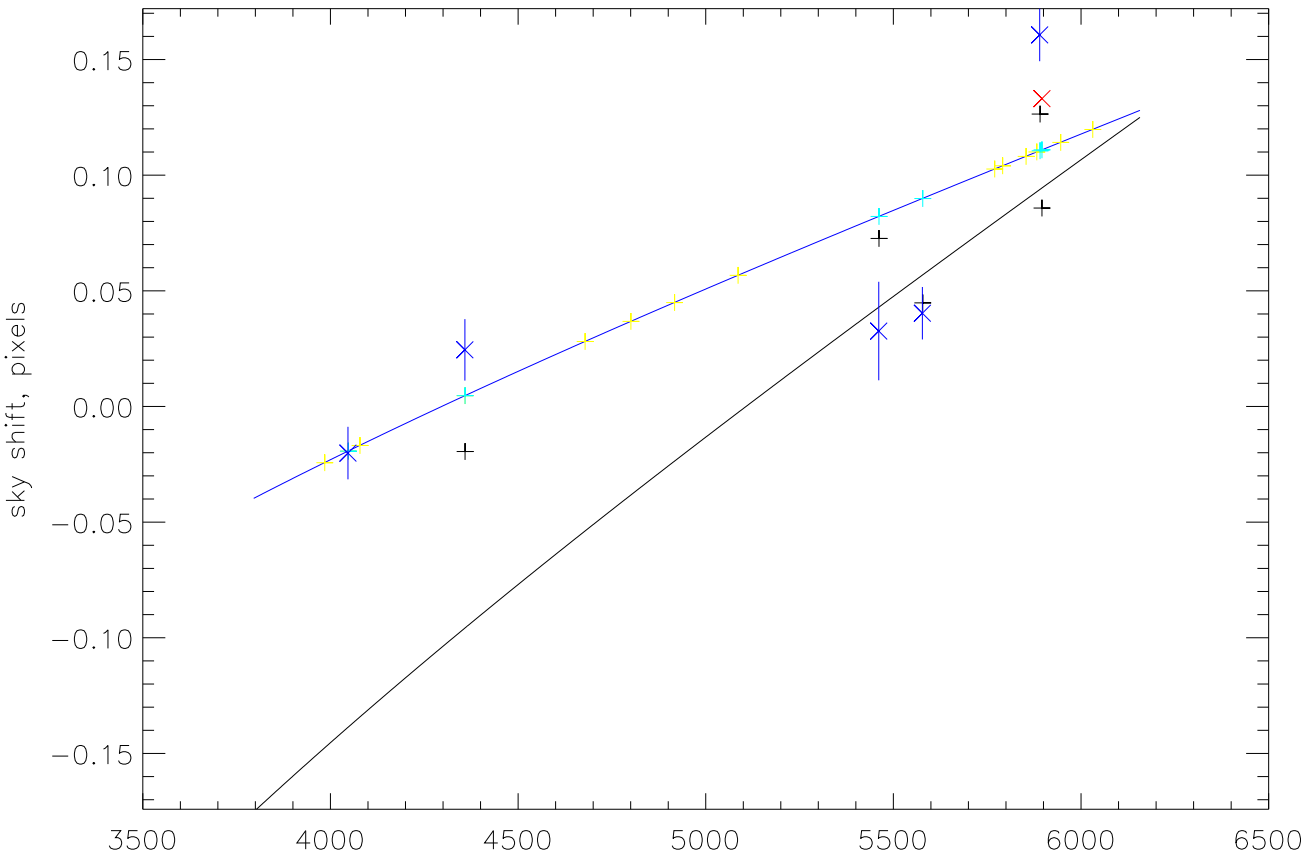

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

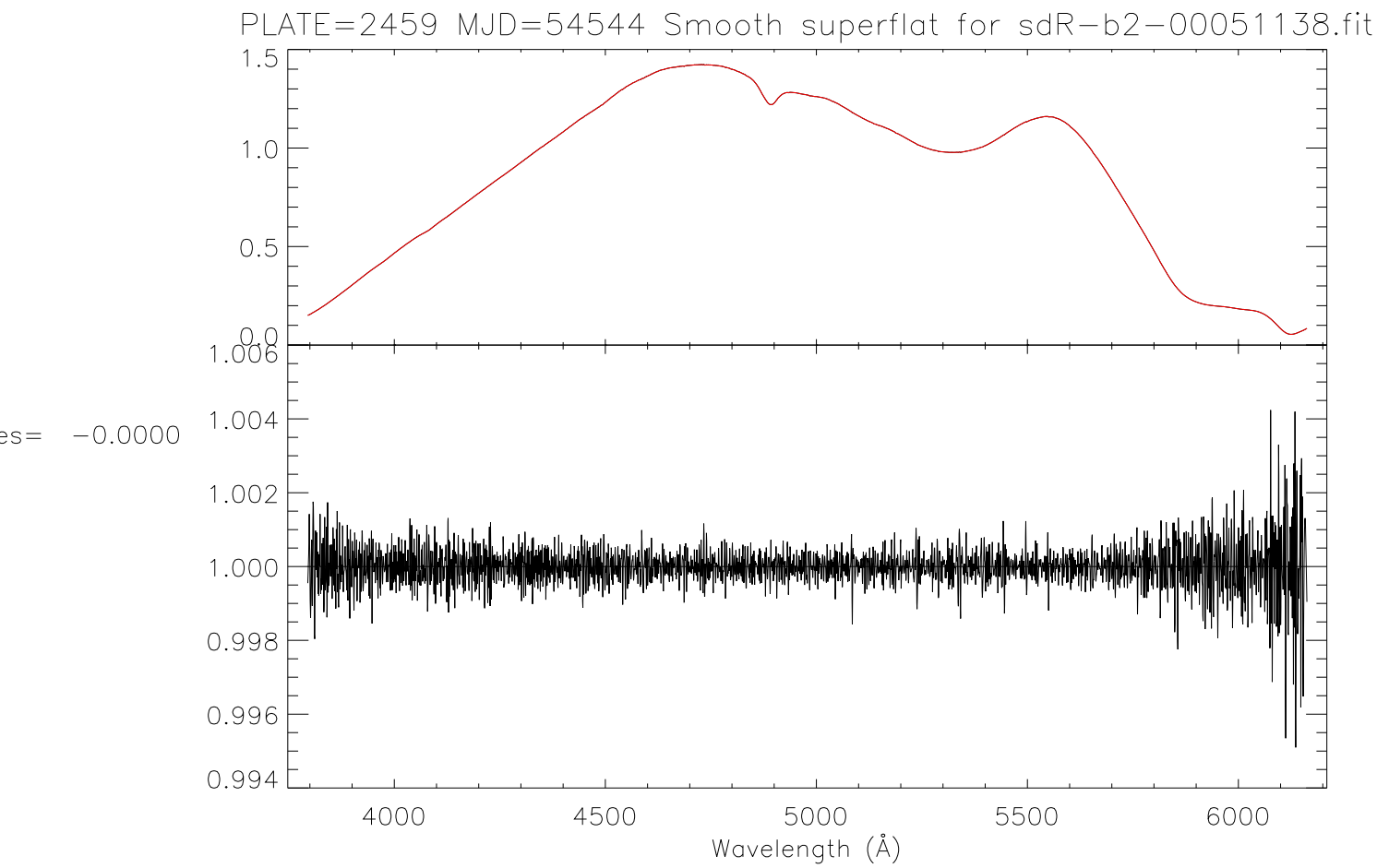

5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

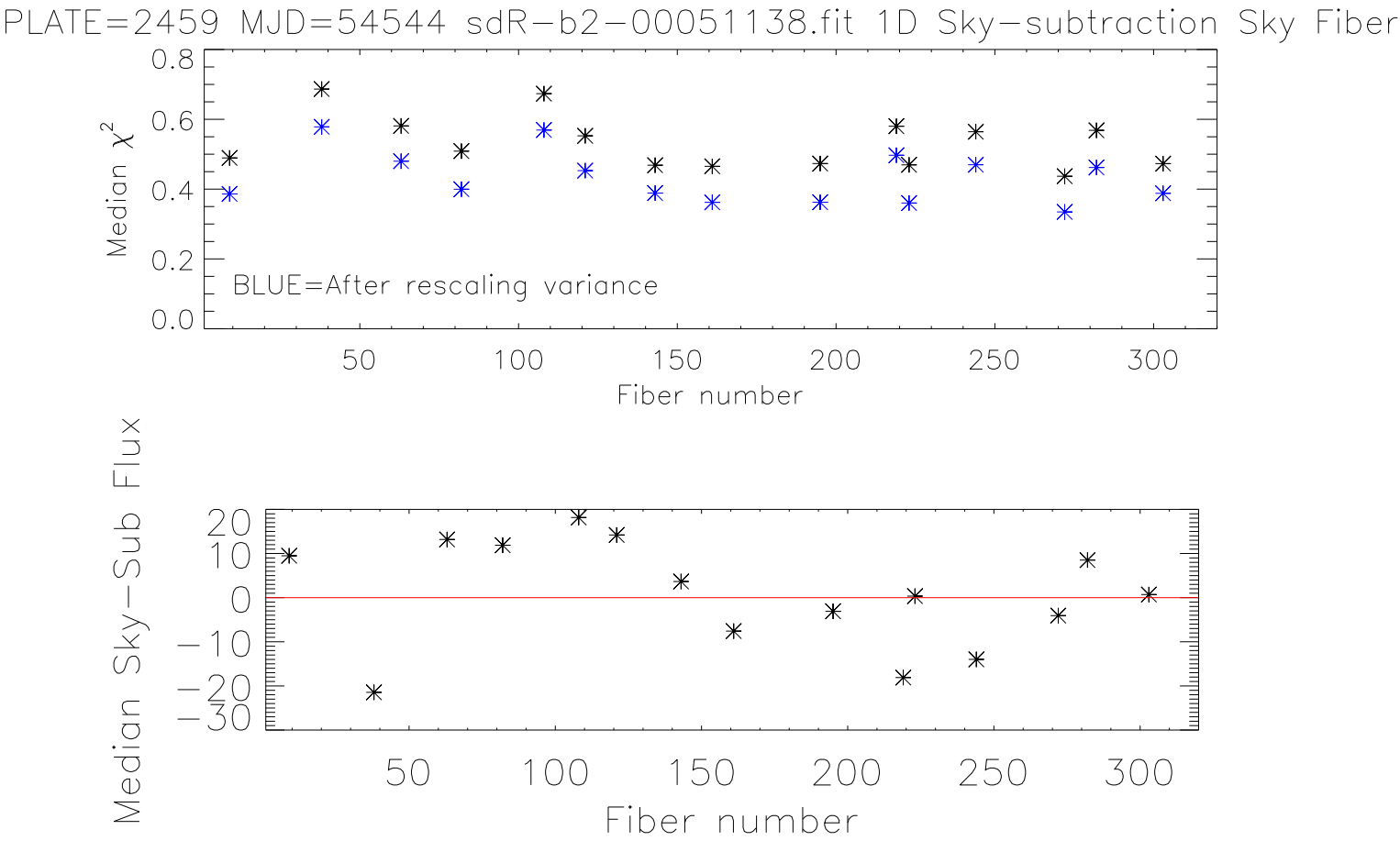

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

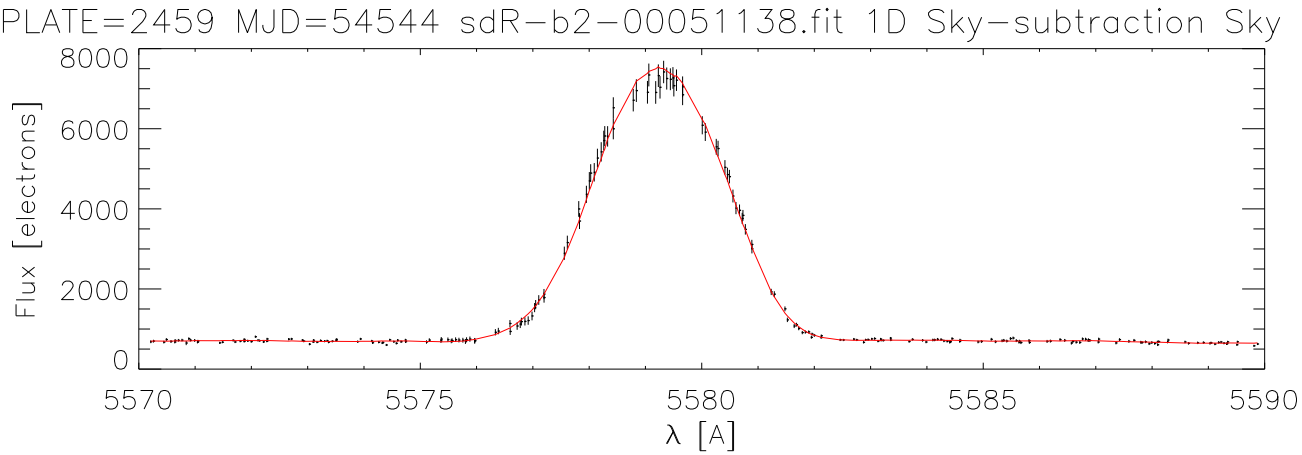

4046.5600
nfib1 15
nfib2 15
stdev 0.035
extra −0.02
4358.3300
nfib1 16
nfib2 16
stdev 0.023
extra 0.02
5460.9400
nfib1 16
nfib2 16
stdev 0.034
extra 0.03
5577.3390
nfib1 16
nfib2 16
stdev 0.011
extra 0.04
5889.9500
nfib1 15
nfib2 15
stdev 0.026
extra 0.16
5895.9240
nfib1 16
nfib2 16
stdev 0.030
extra 0.13
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

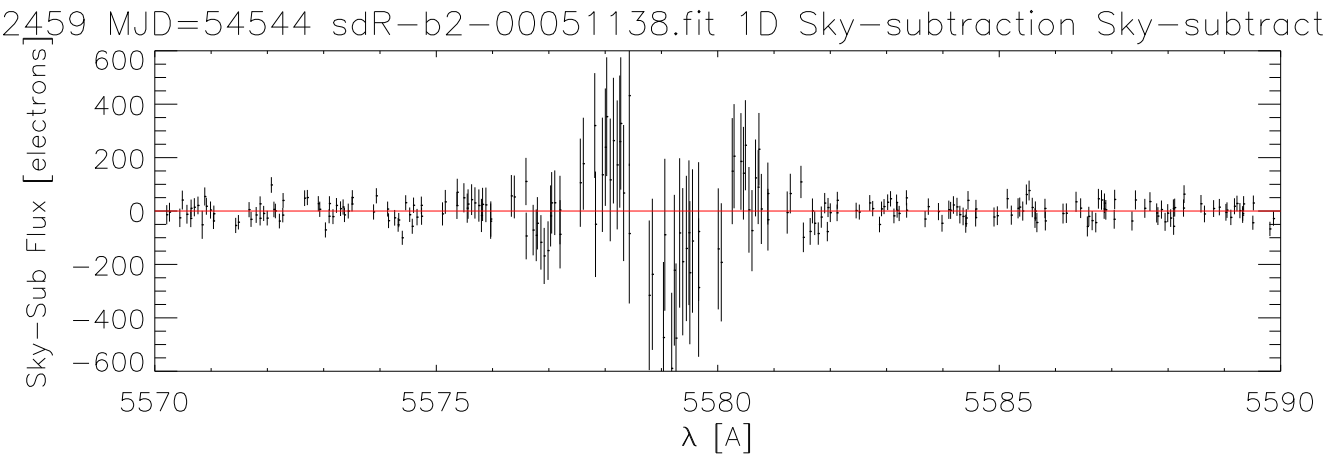

sky shift, pixels
0.15
0.10
0.05
0.00
−0.05
−0.10
−0.15
3500
4000
4500
5000
5500
6000
6500

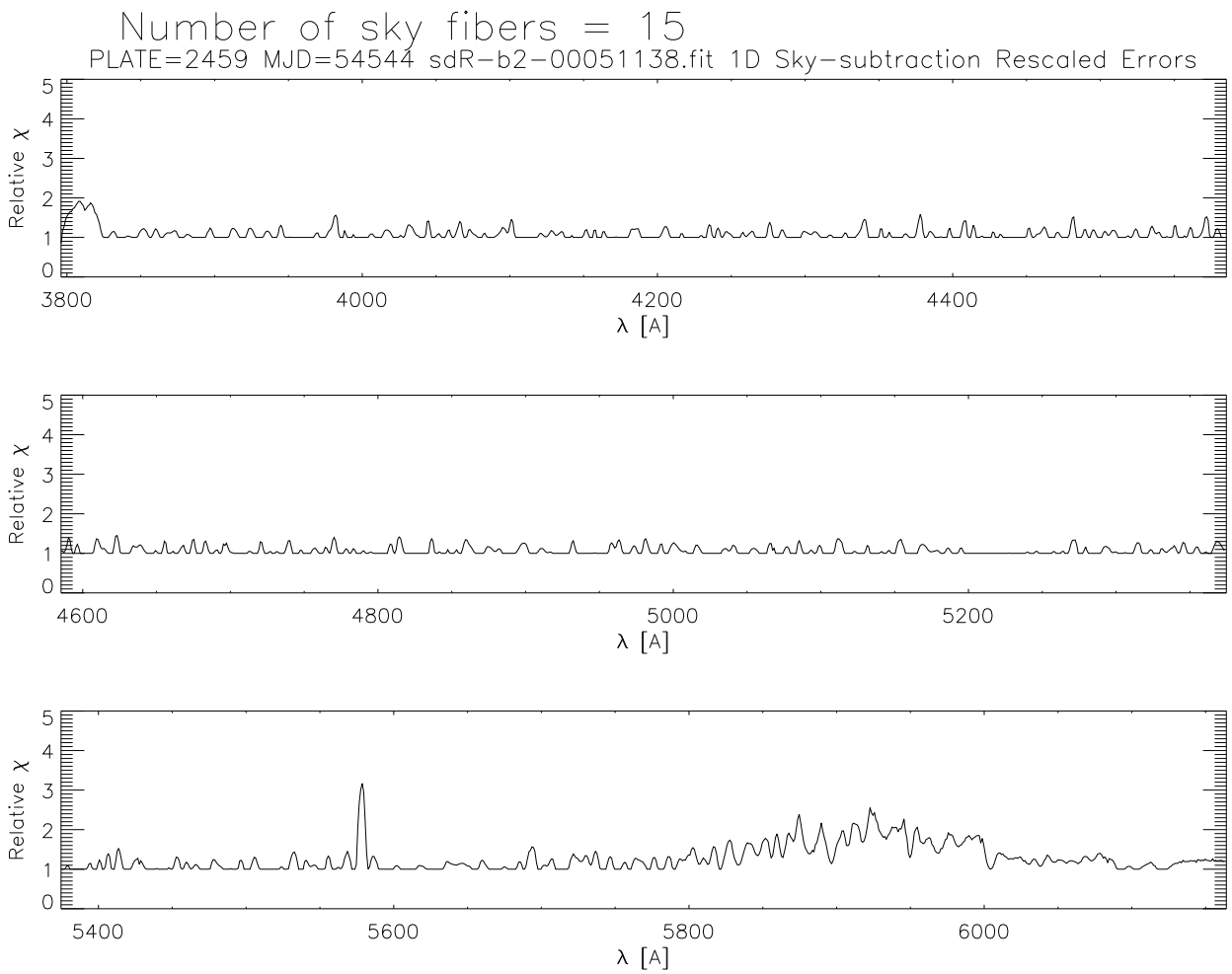

PLATE=2459 MJD=54544 Smooth superflat for sdR-b2-00051138.fit
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
4000
4500
5000
5500
6000
Wavelength (Å)

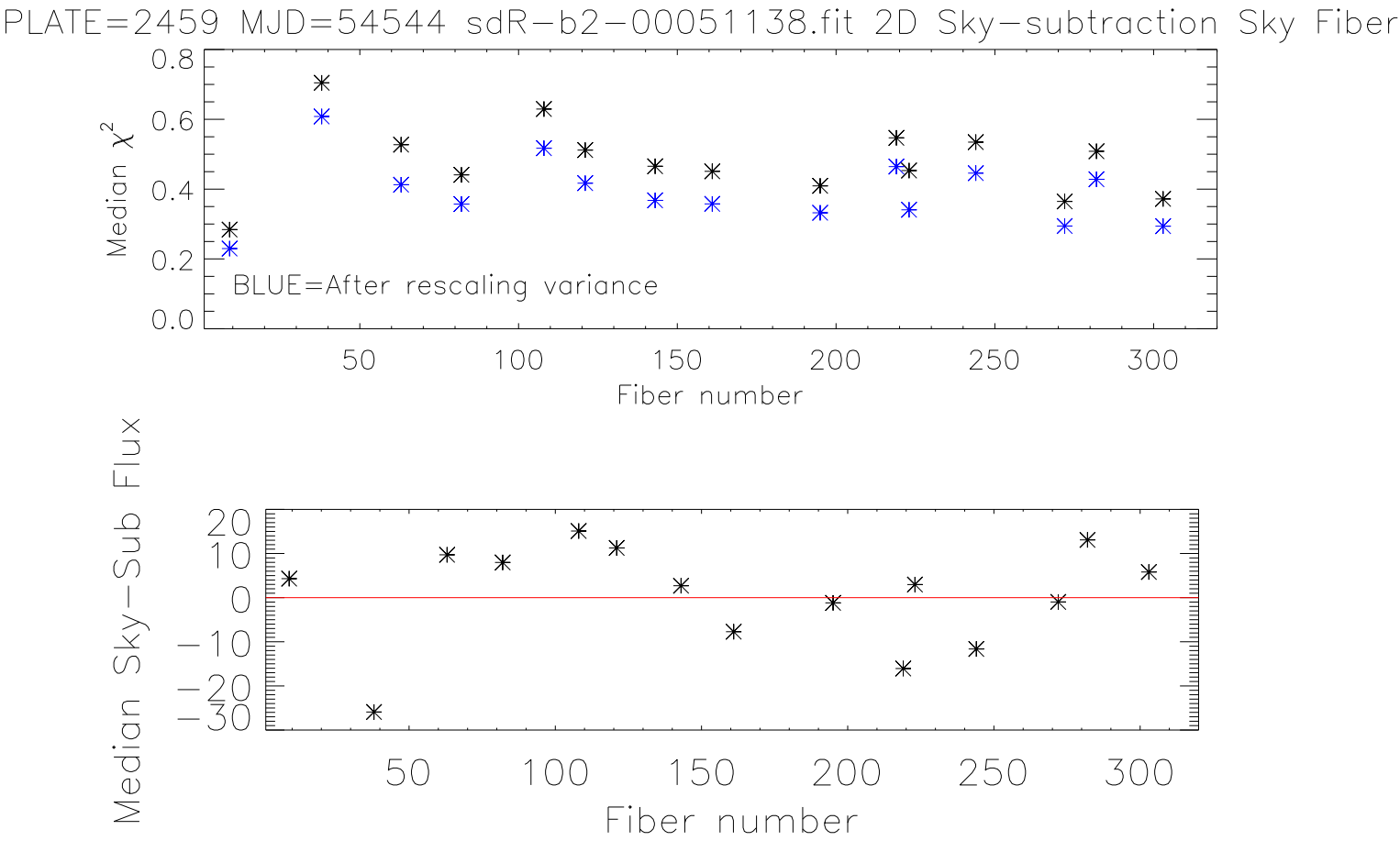
es= −0.0000

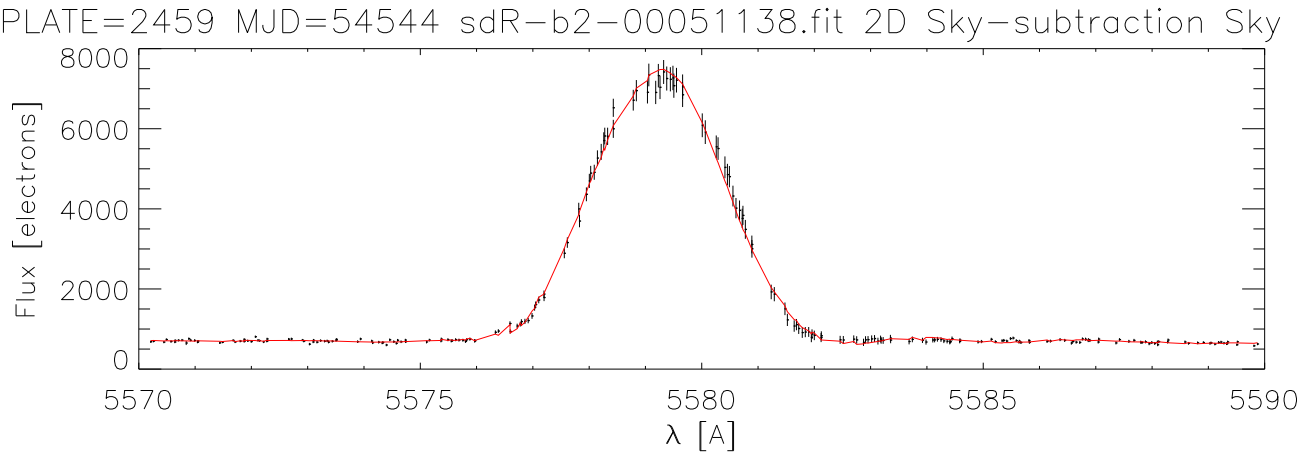

PLATE=2459 MJD=54544 sdR-b2-00051138.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
10
0
-10
-20
-30
50
100
150
200
250
300
Fiber number

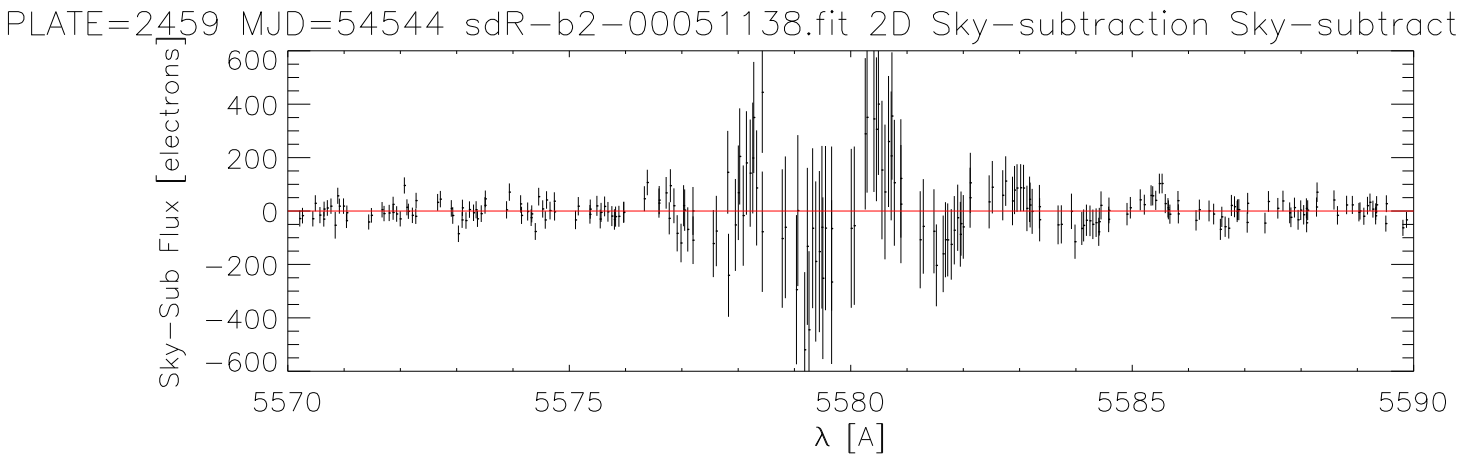

PLATE=2459 MJD=54544 sdR-b2-00051138.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

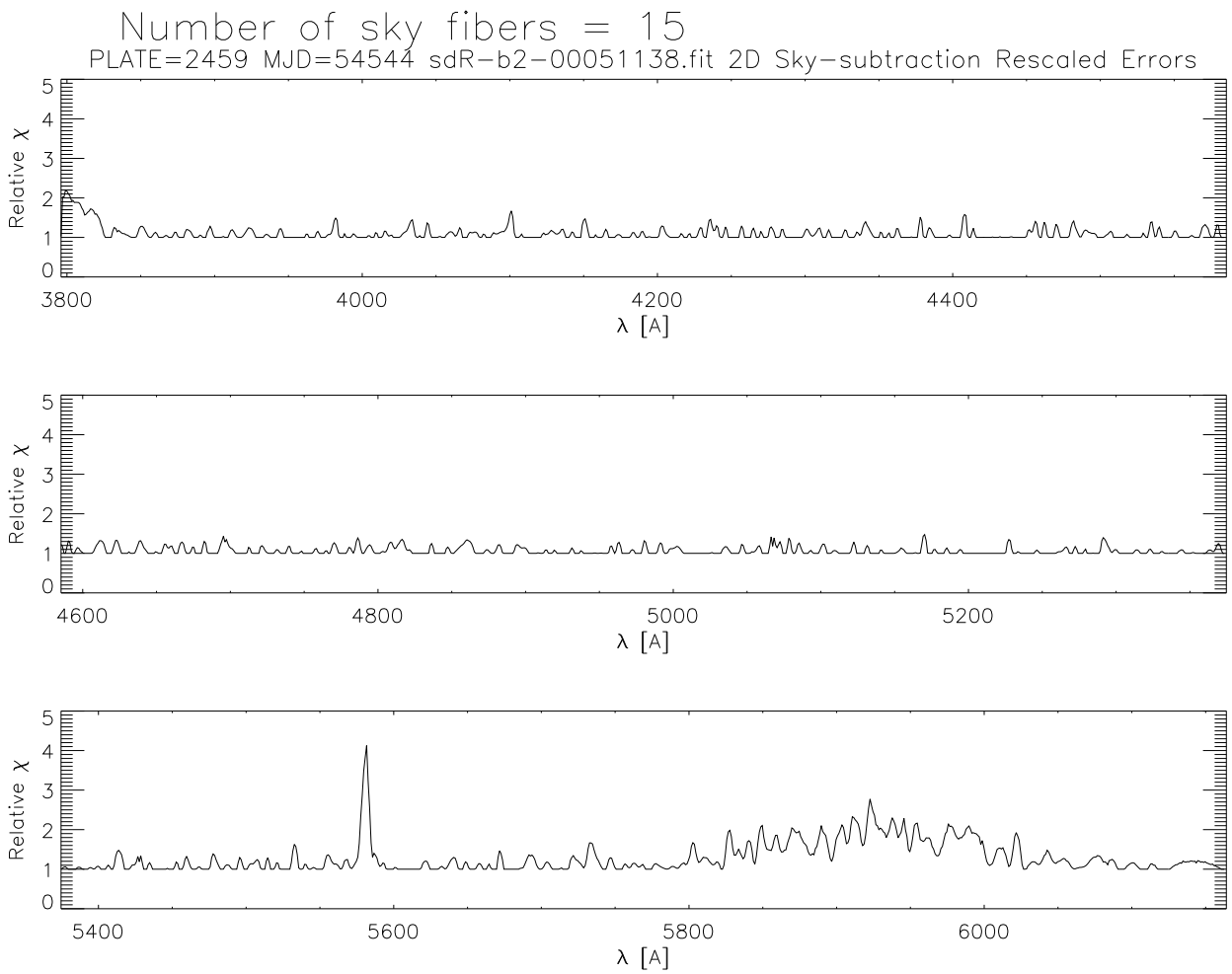

PLATE=2459 MJD=54544 sdR-b2-00051138.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

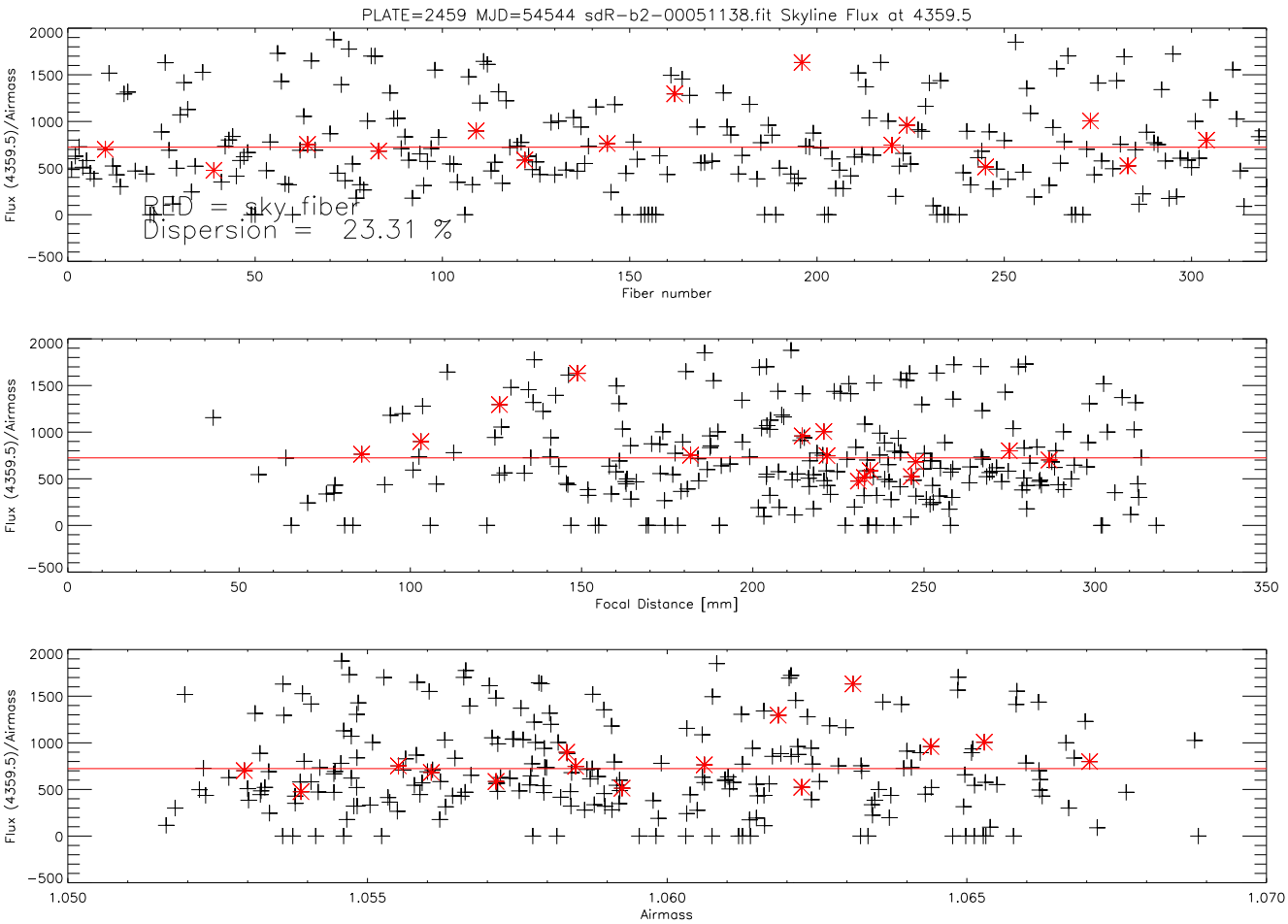

Number of sky fibers = 15
PLATE=2459 MJD=54544 sdR-b2-00051138.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

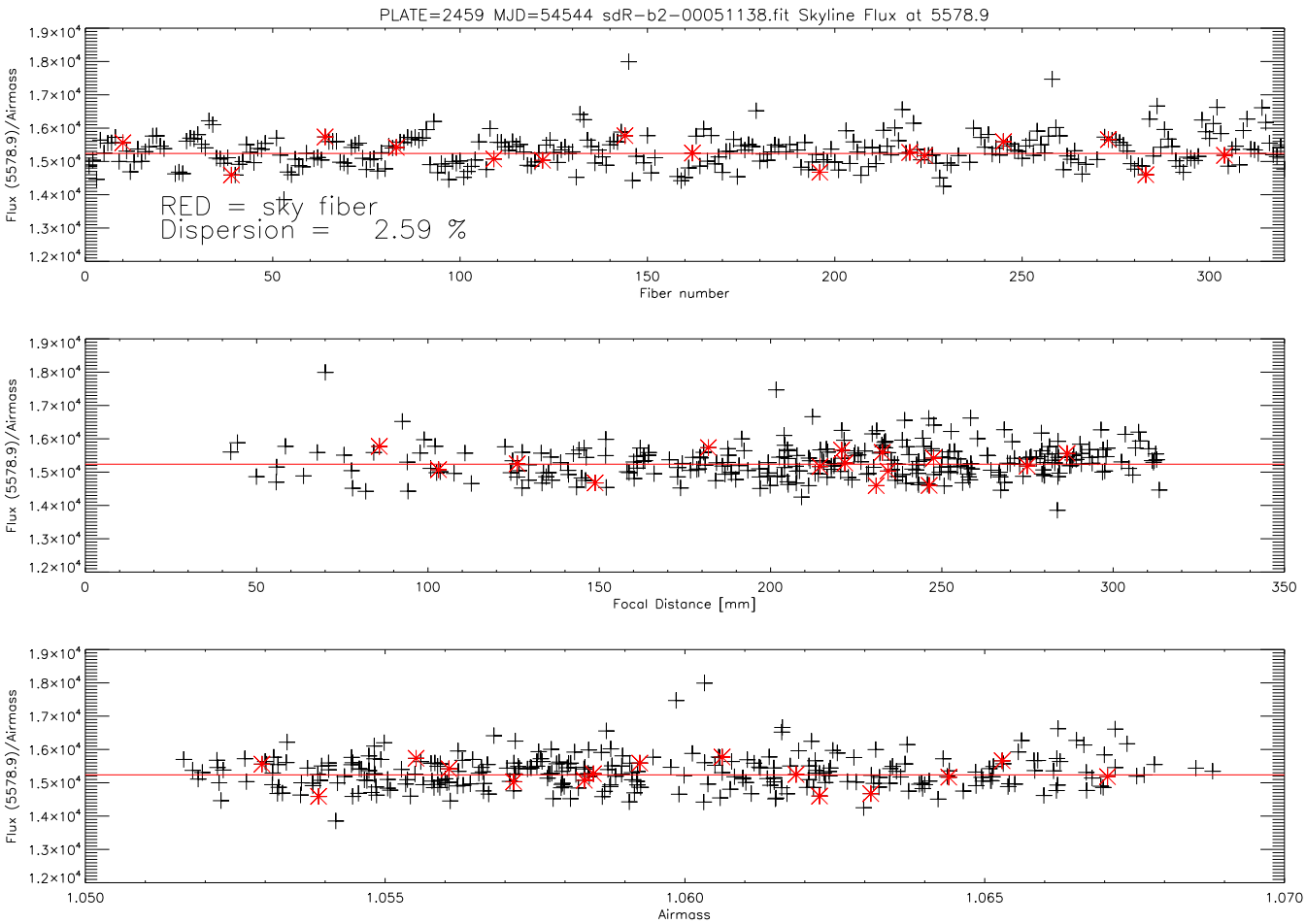

PLATE=2459 MJD=54544 sdR-b2-00051138.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
10
0
-10
-20
-30
50
100
150
200
250
300
Fiber number

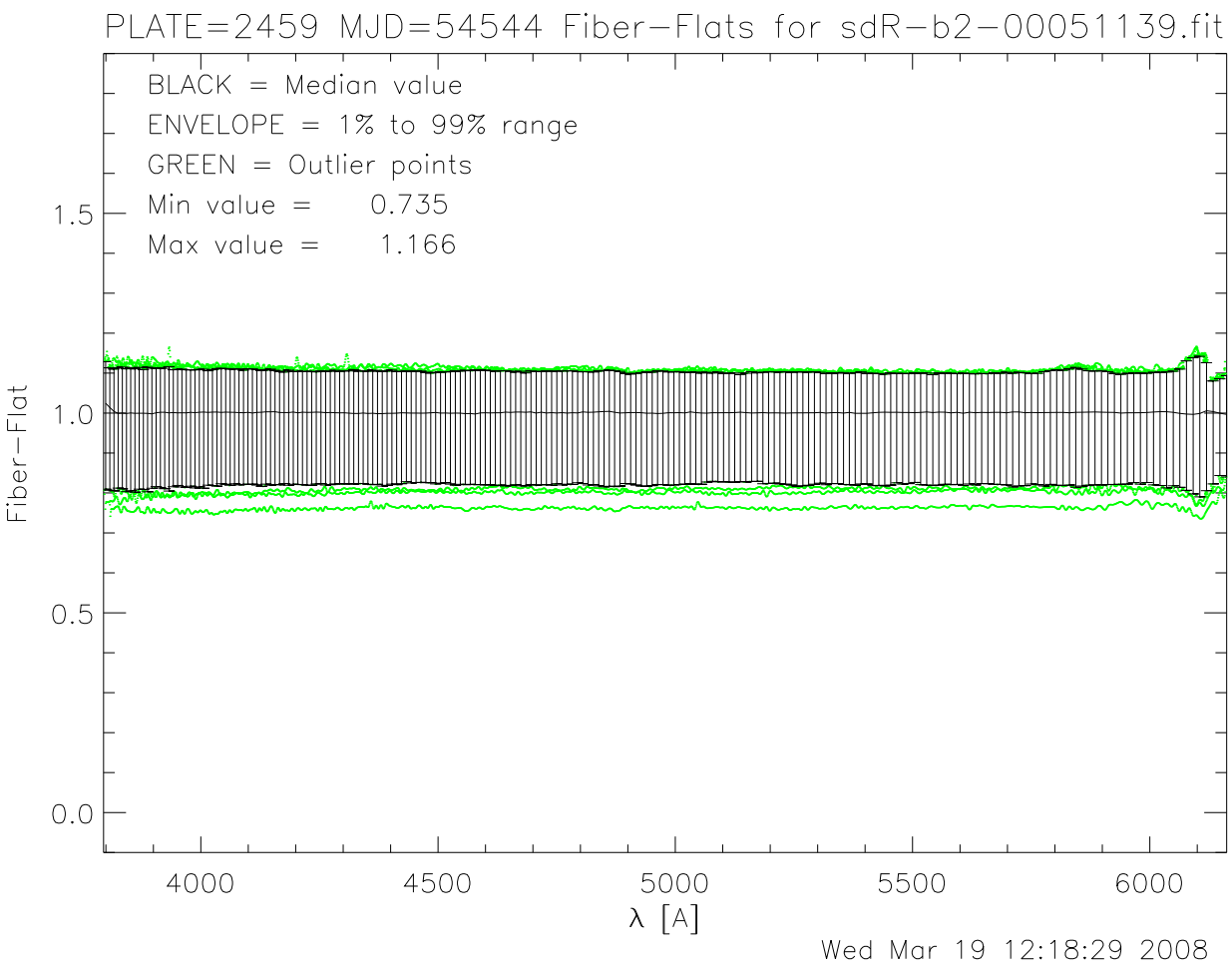

PLATE=2459 MJD=54544 sdR-b2-00051138.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

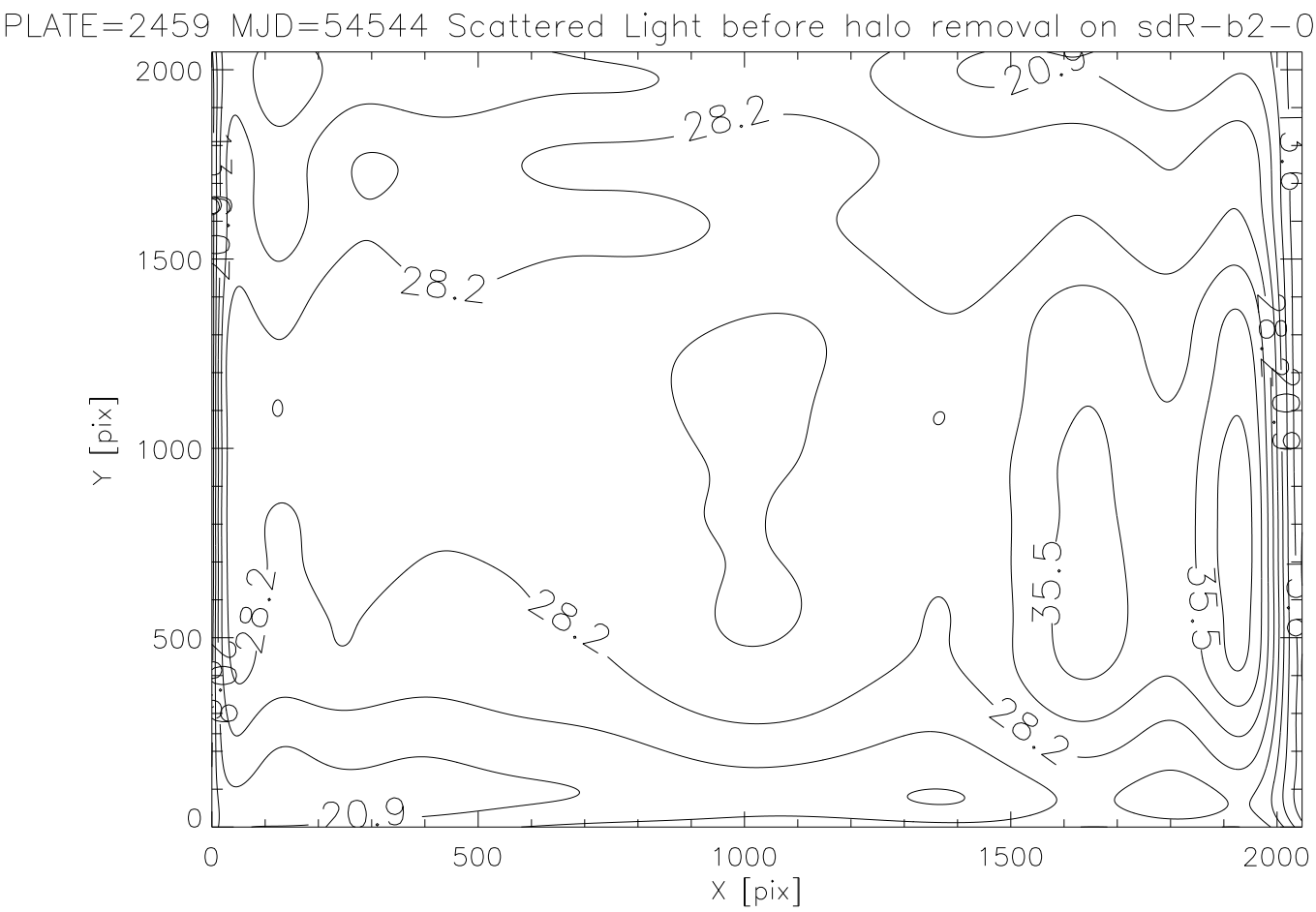

PLATE=2459 MJD=54544 sdR-b2-00051138.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

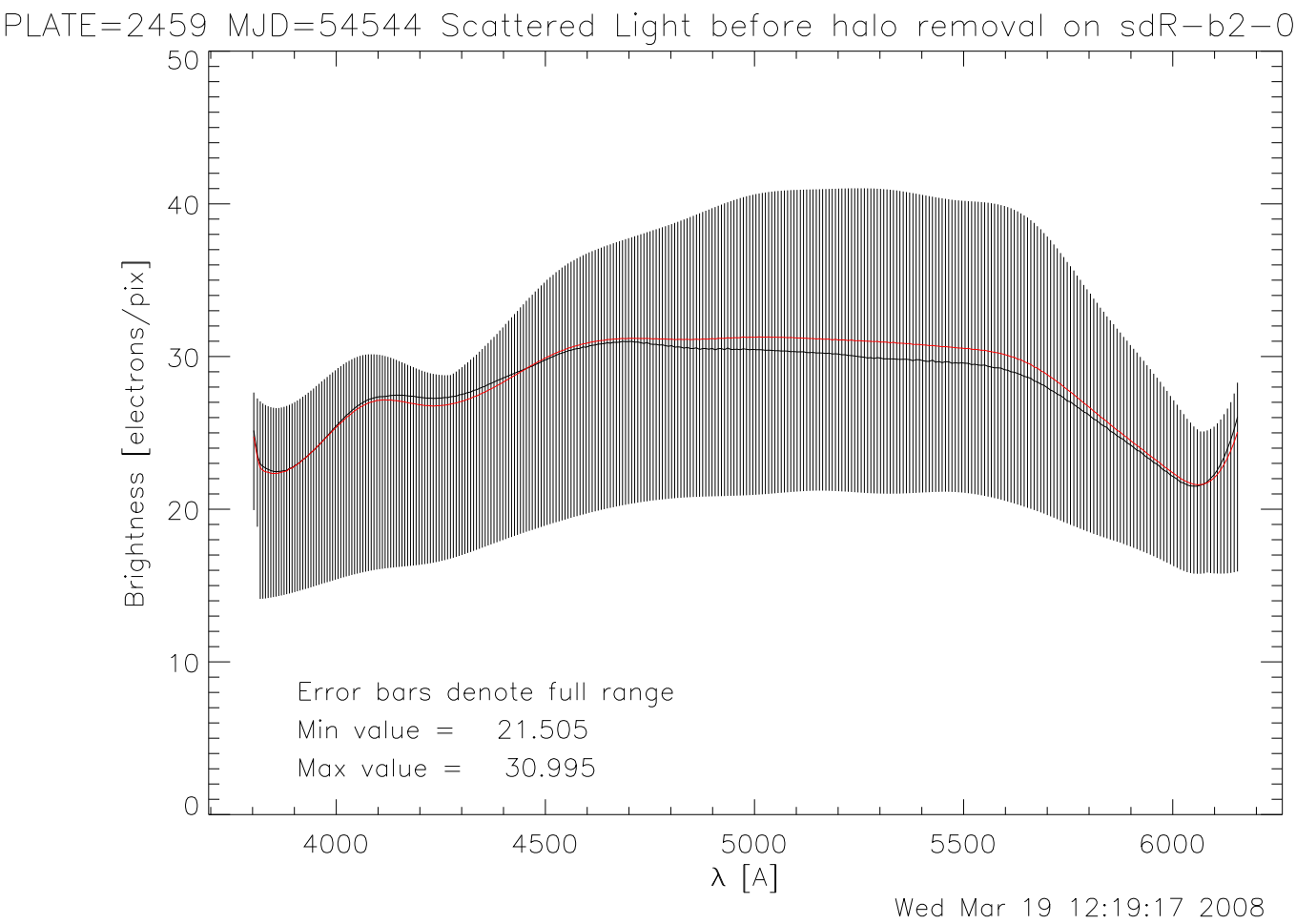

Number of sky fibers = 15
PLATE=2459 MJD=54544 sdR-b2-00051138.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

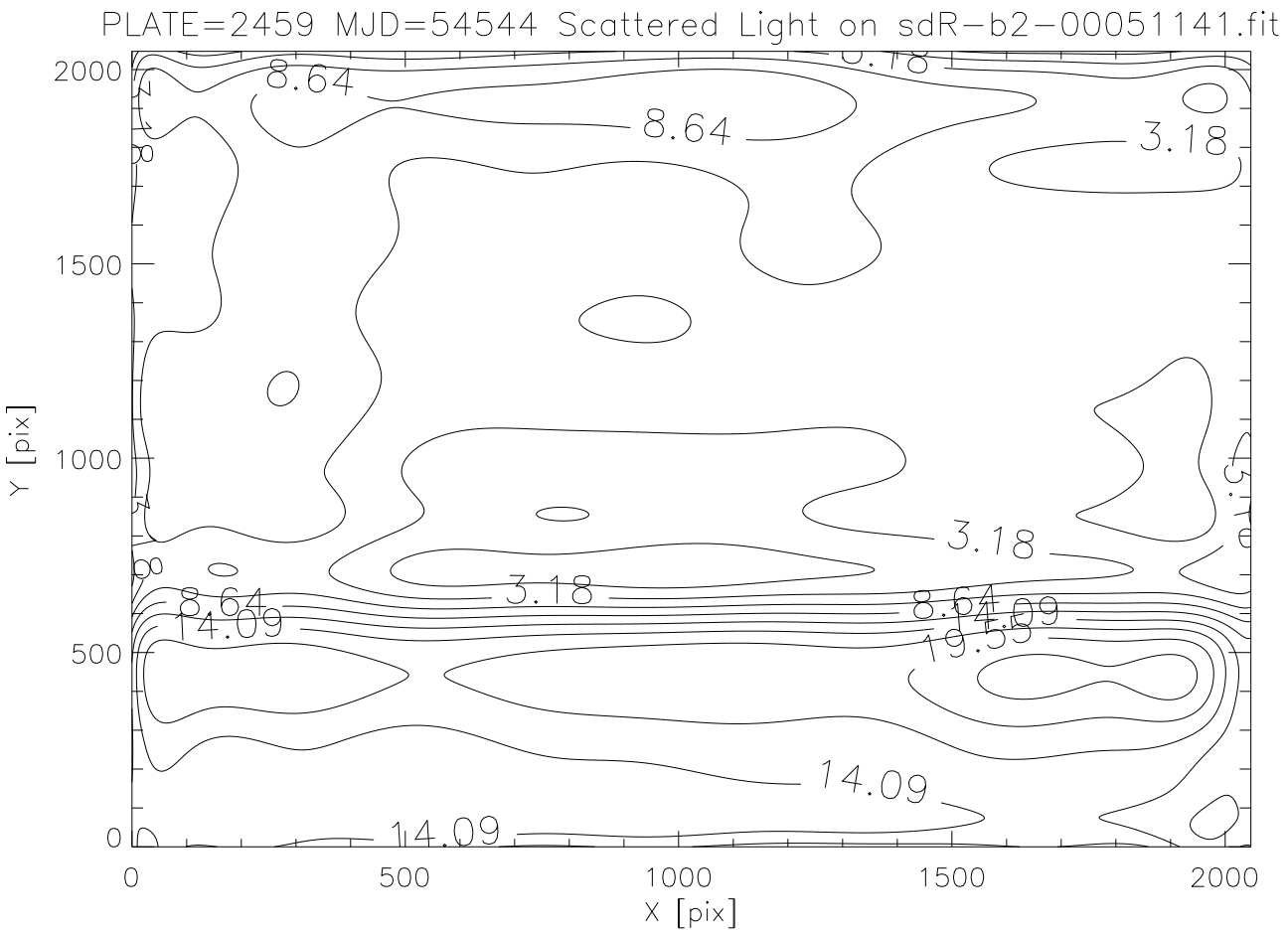

PLATE=2459 MJD=54544 sdR-b2-00051138.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 23.31 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

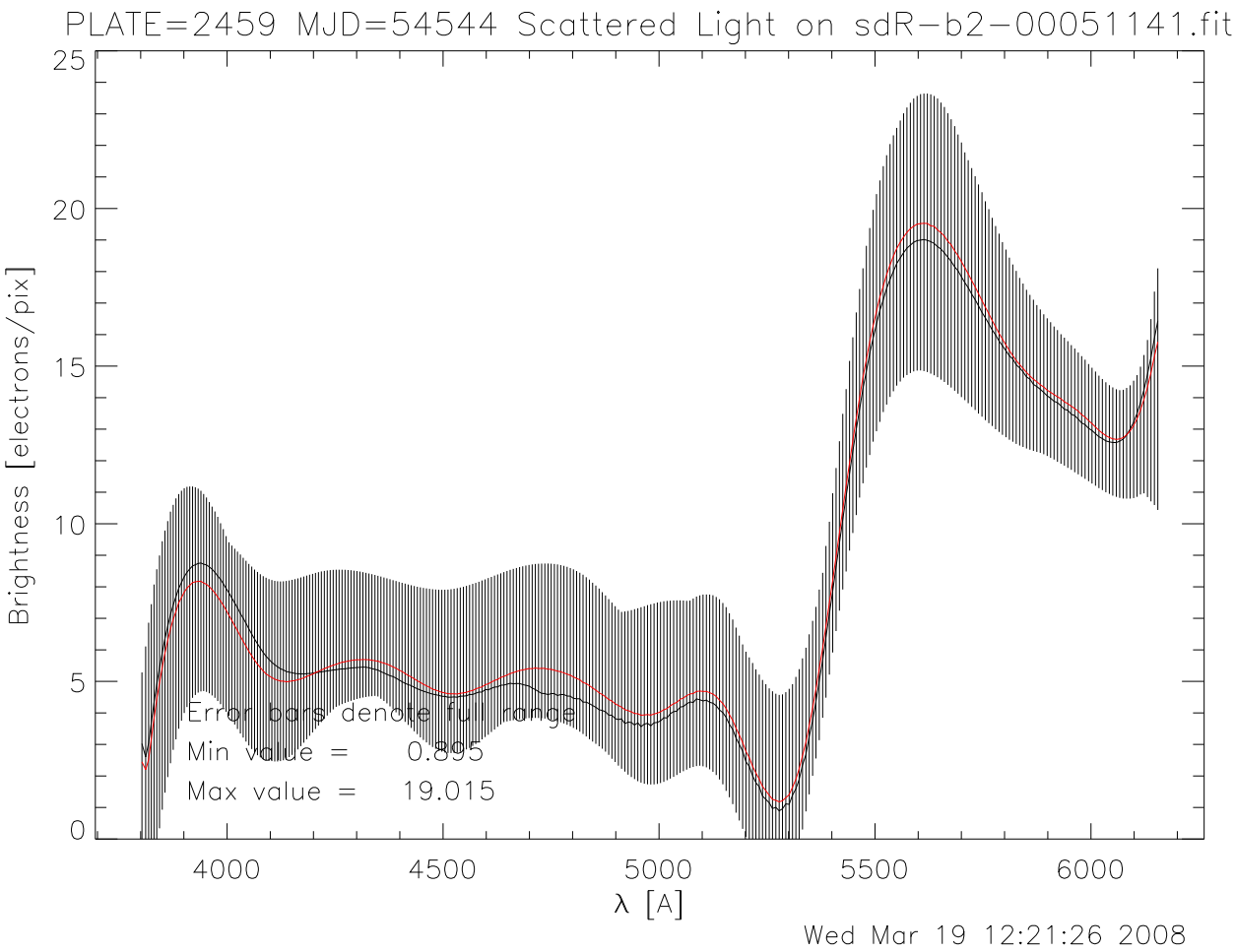

PLATE=2459 MJD=54544 sdR-b2-00051138.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.59 %
Fiber number
Focal Distance [mm]
Airmass

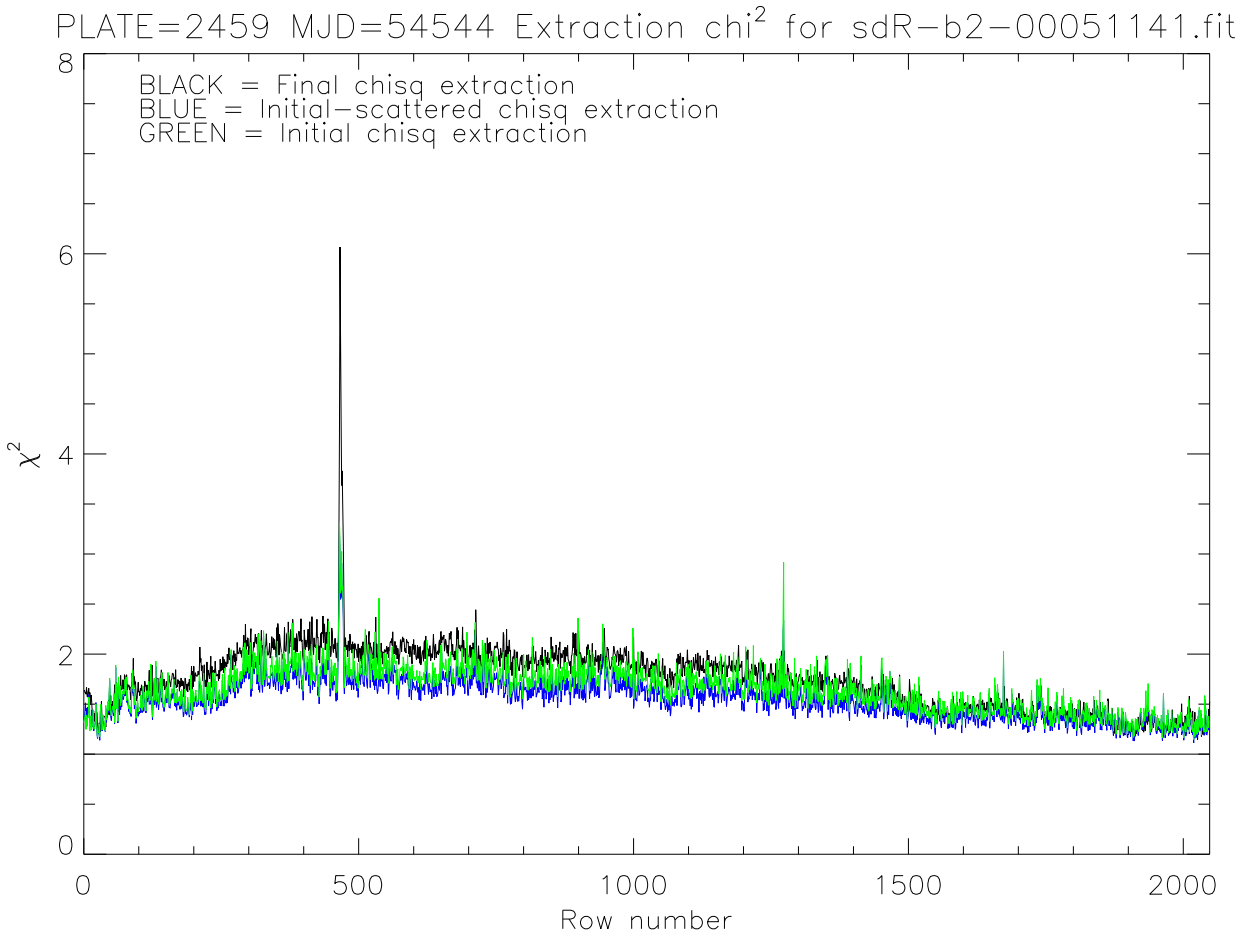

PLATE=2459 MJD=54544 Fiber-Flats for sdR-b2-00051139.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.735
Max value = 1.166
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 19 12:18:29 2008

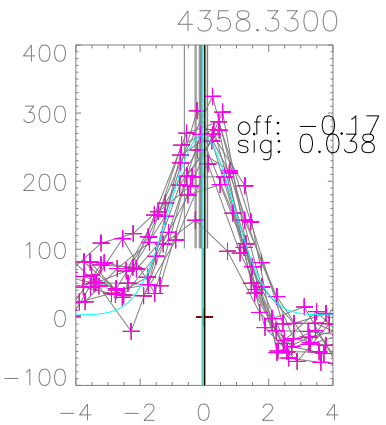

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR−b2−00051141.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
20.9
28.2
28.2
28.2
28.2
28.2
35.5
35.5
20.9
20.9
20.9

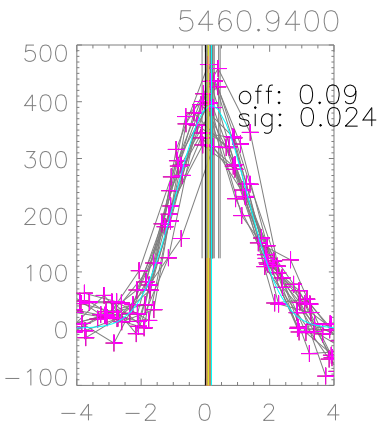

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-b2-00051141.f
Brightness [electrons/pix]
50
40
30
20
10
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 21.505
Max value = 30.995
Wed Mar 19 12:19:17 2008

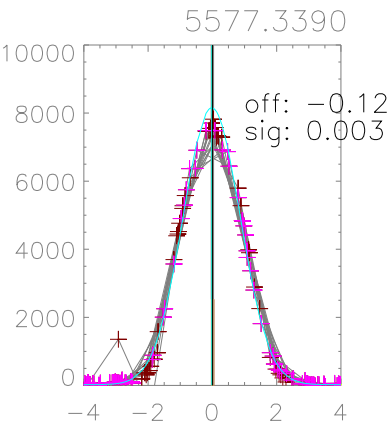

PLATE=2459 MJD=54544 Scattered Light on sdR-b2-00051141.fit
8.64
8.64
3.18
3.18
3.18
8.64
14.09
14.09
19.55
14.09
14.09
Y [pix]
X [pix]
0
500
1000
1500
2000

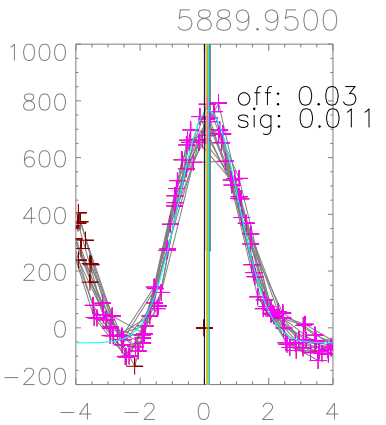

PLATE=2459 MJD=54544 Scattered Light on sdR-b2-00051141.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 0.895
Max value = 19.015
Wed Mar 19 12:21:26 2008

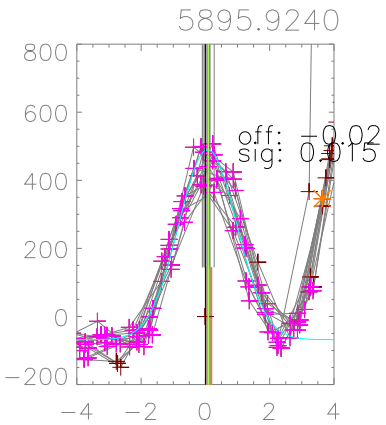

PLATE=2459 MJD=54544 Extraction chi^2 for sdR-b2-00051141.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

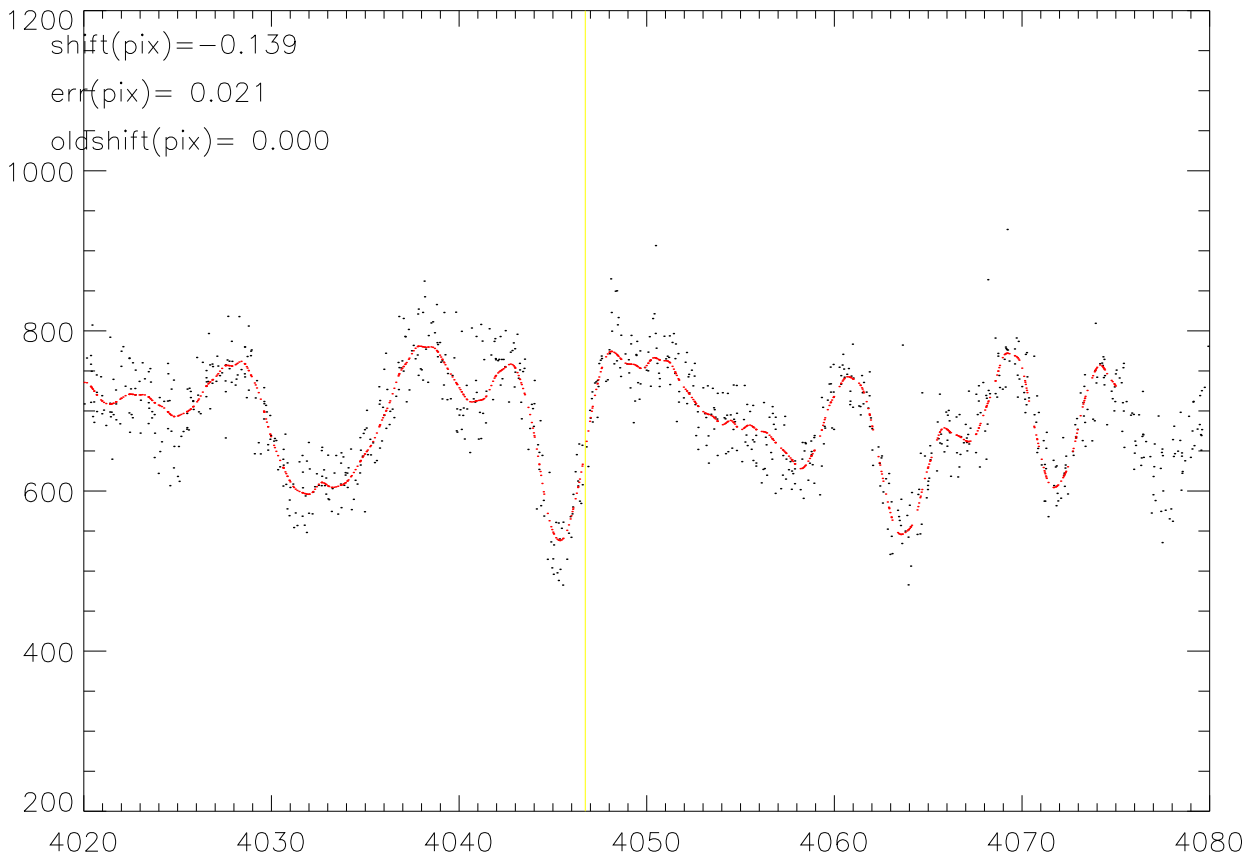

4358.3300
off: −0.17
sig: 0.038

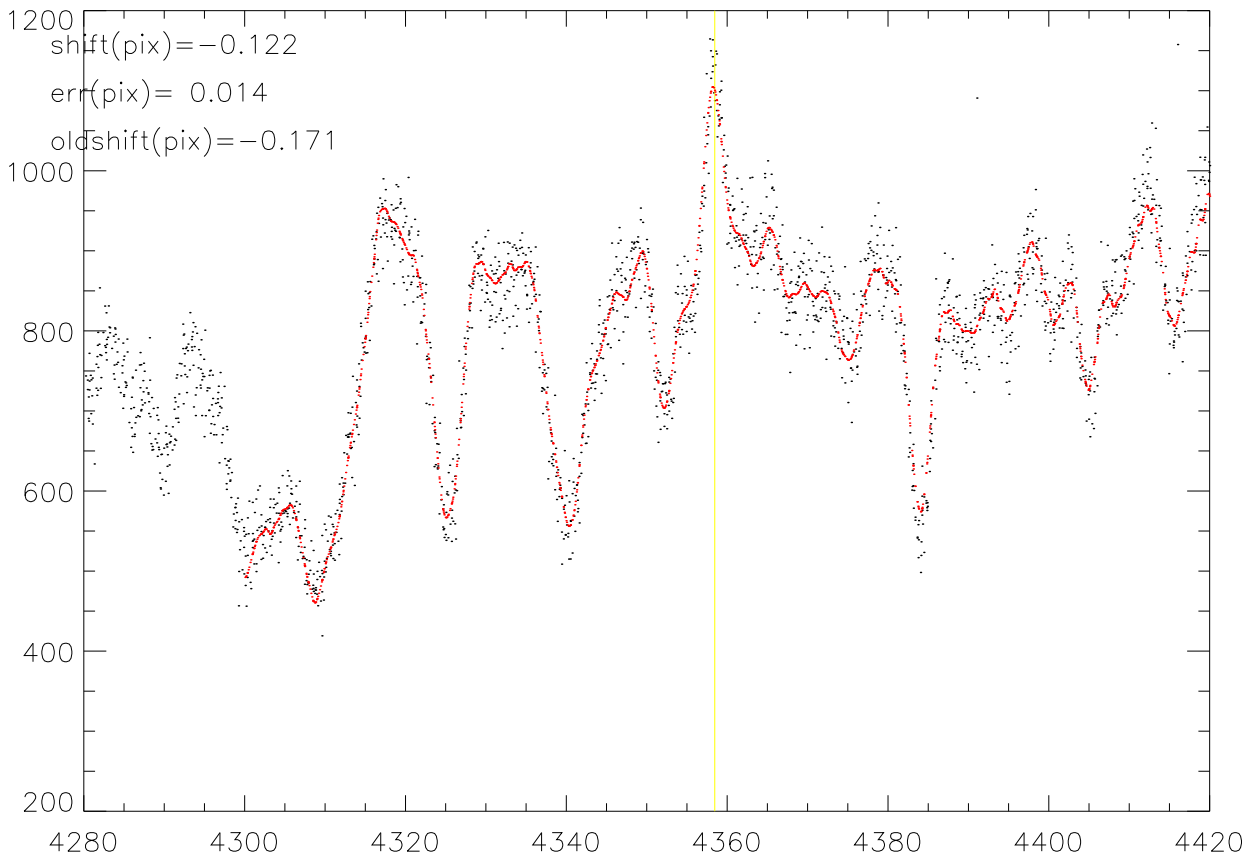

5460.9400
off: 0.09
sig: 0.024

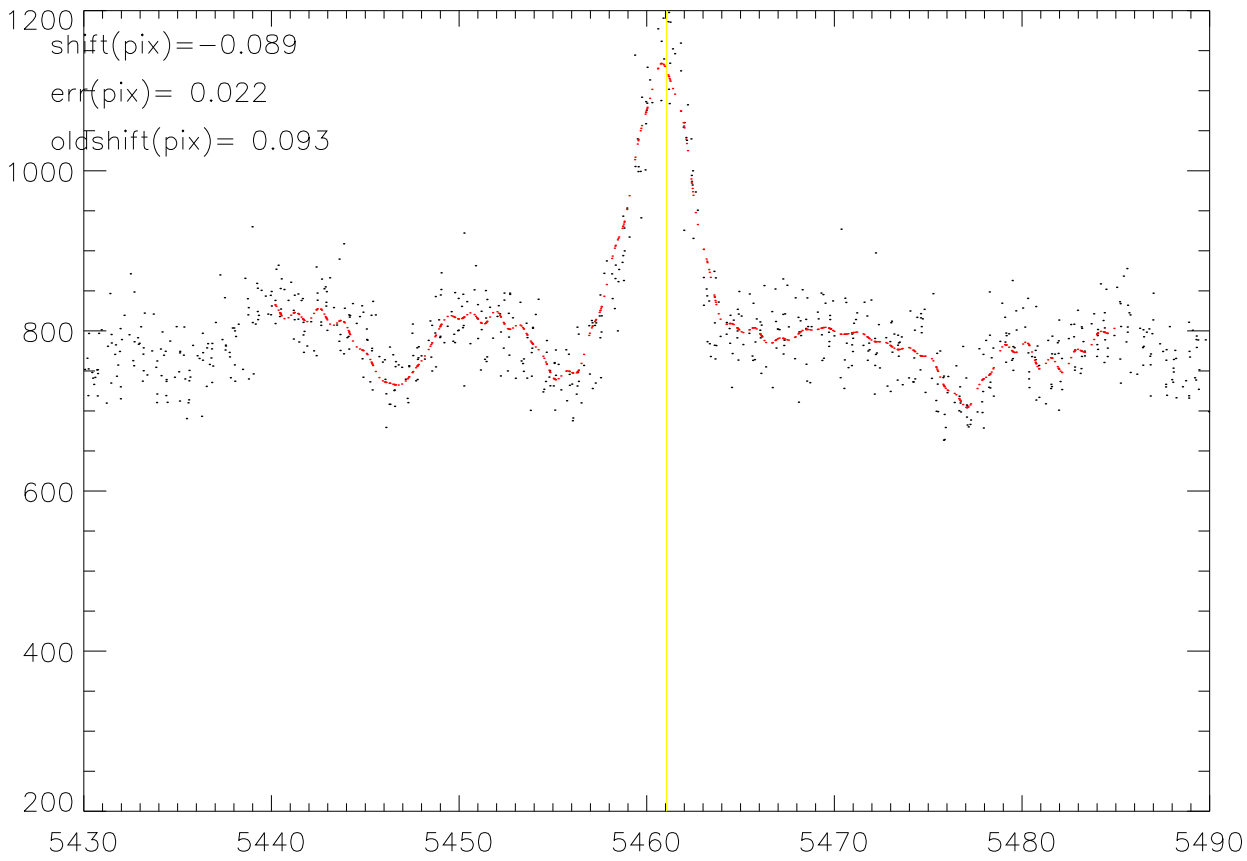

5577.3390
off: −0.12
sig: 0.003

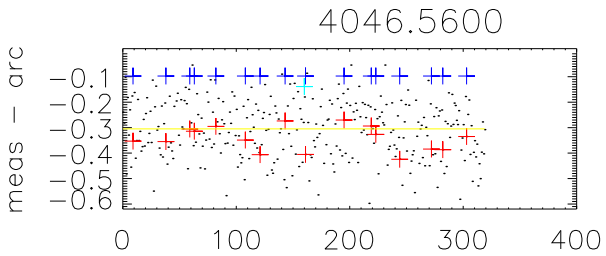

5889.9500
off: 0.03
sig: 0.011

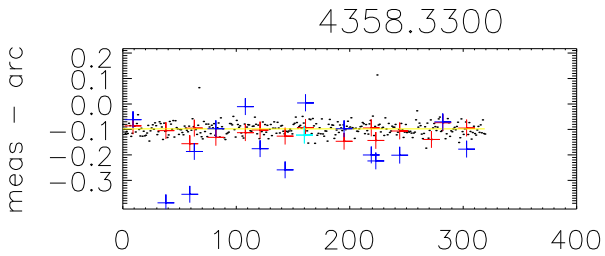

5895.9240
off: −0.02
sig: 0.015

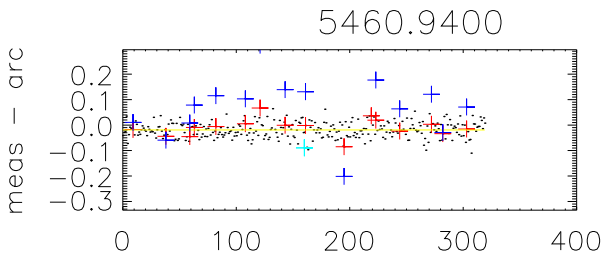

shift(pix)=−0.139
err(pix)= 0.021
oldshift(pix)= 0.000
1200
1000
800
600
400
200
4020
4030
4040
4050
4060
4070
4080

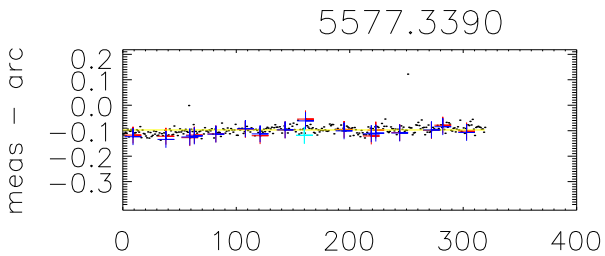

shift(pix)=−0.122
err(pix)= 0.014
oldshift(pix)=−0.171
1200
1000
800
600
400
200
4280
4300
4320
4340
4360
4380
4400
4420

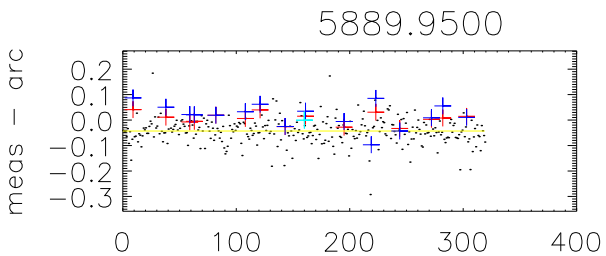

shift(pix)=−0.089
err(pix)= 0.022
oldshift(pix)= 0.093
1200
1000
800
600
400
200
5430
5440
5450
5460
5470
5480
5490

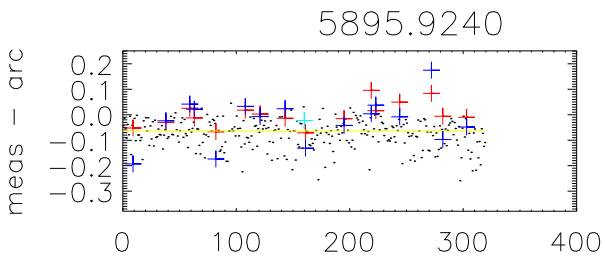

4046.5600
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

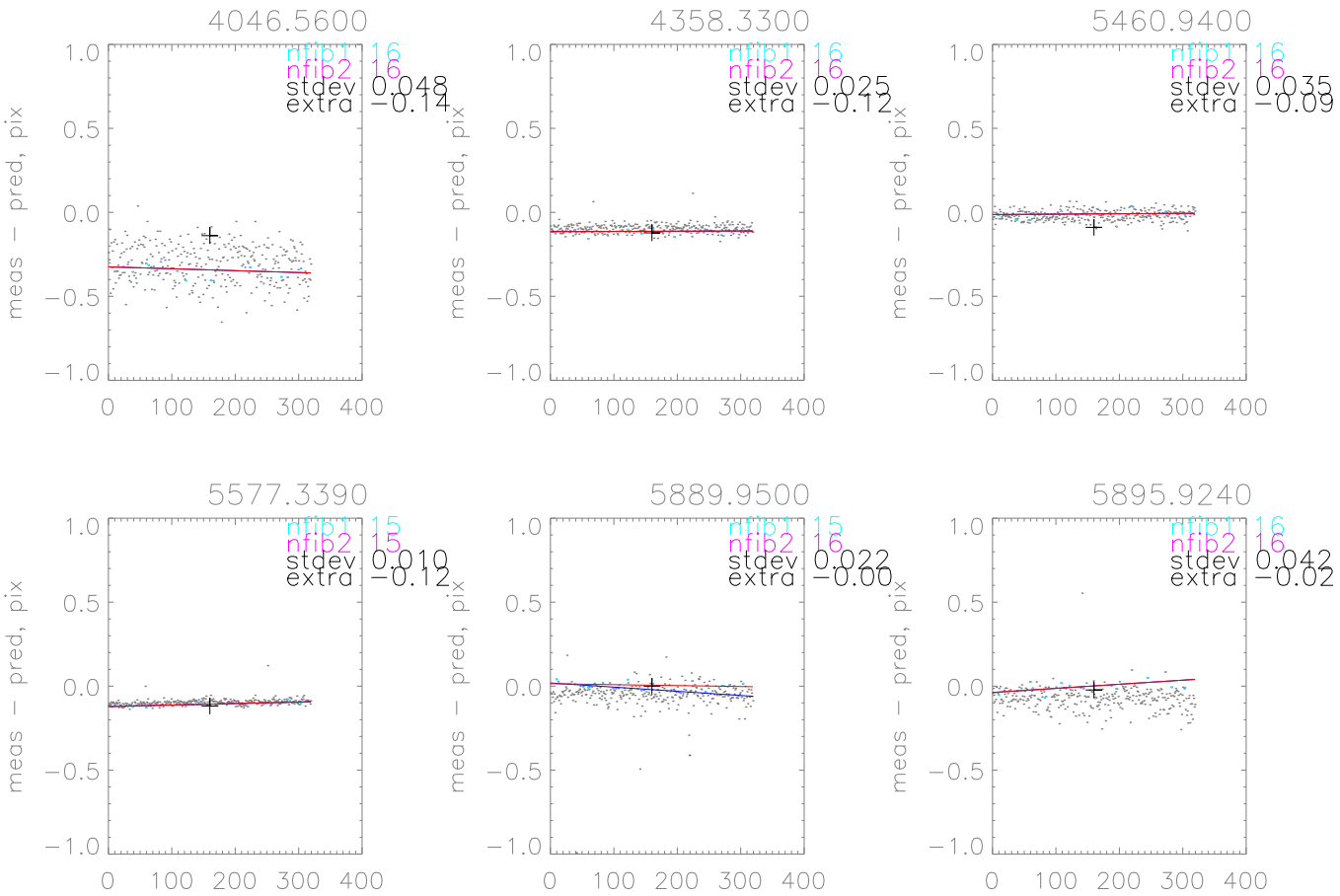

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

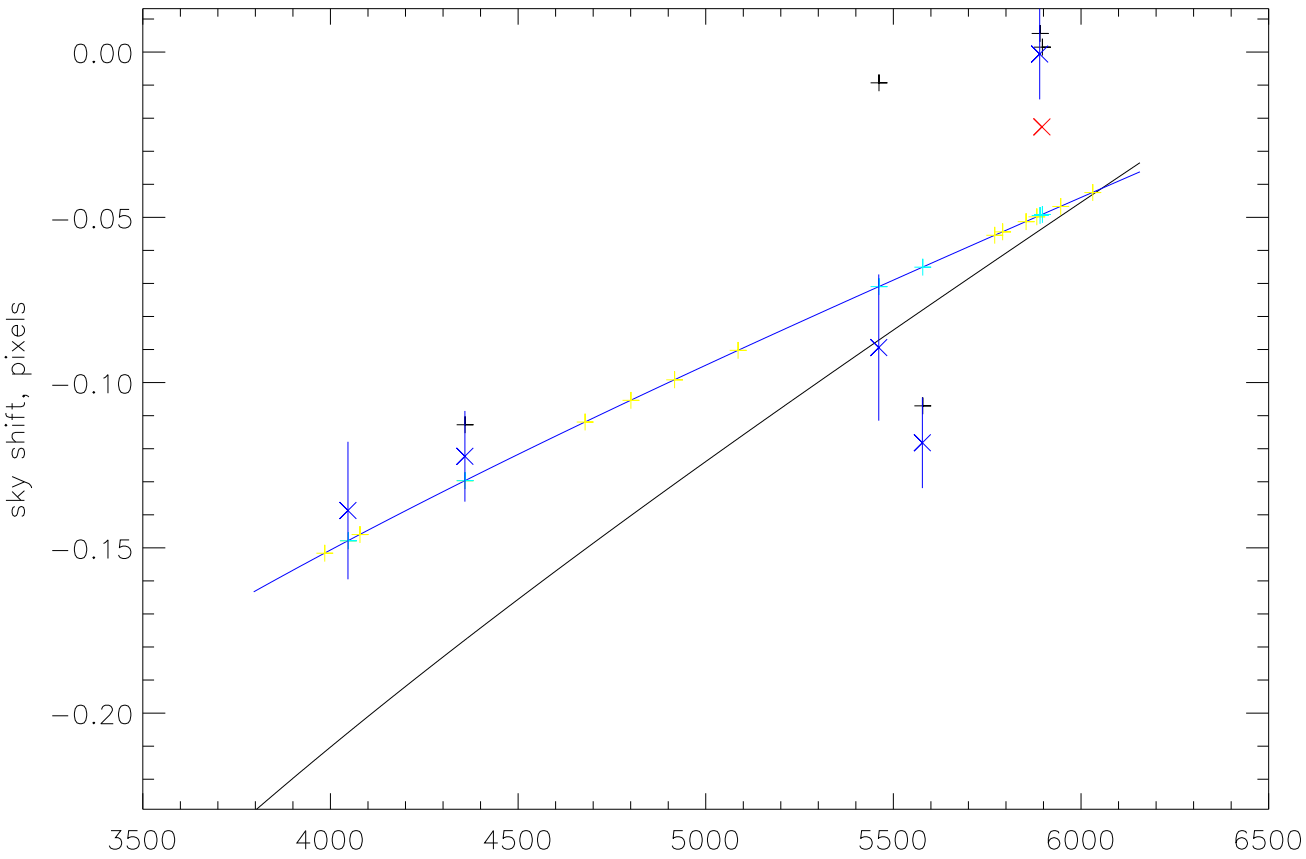

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

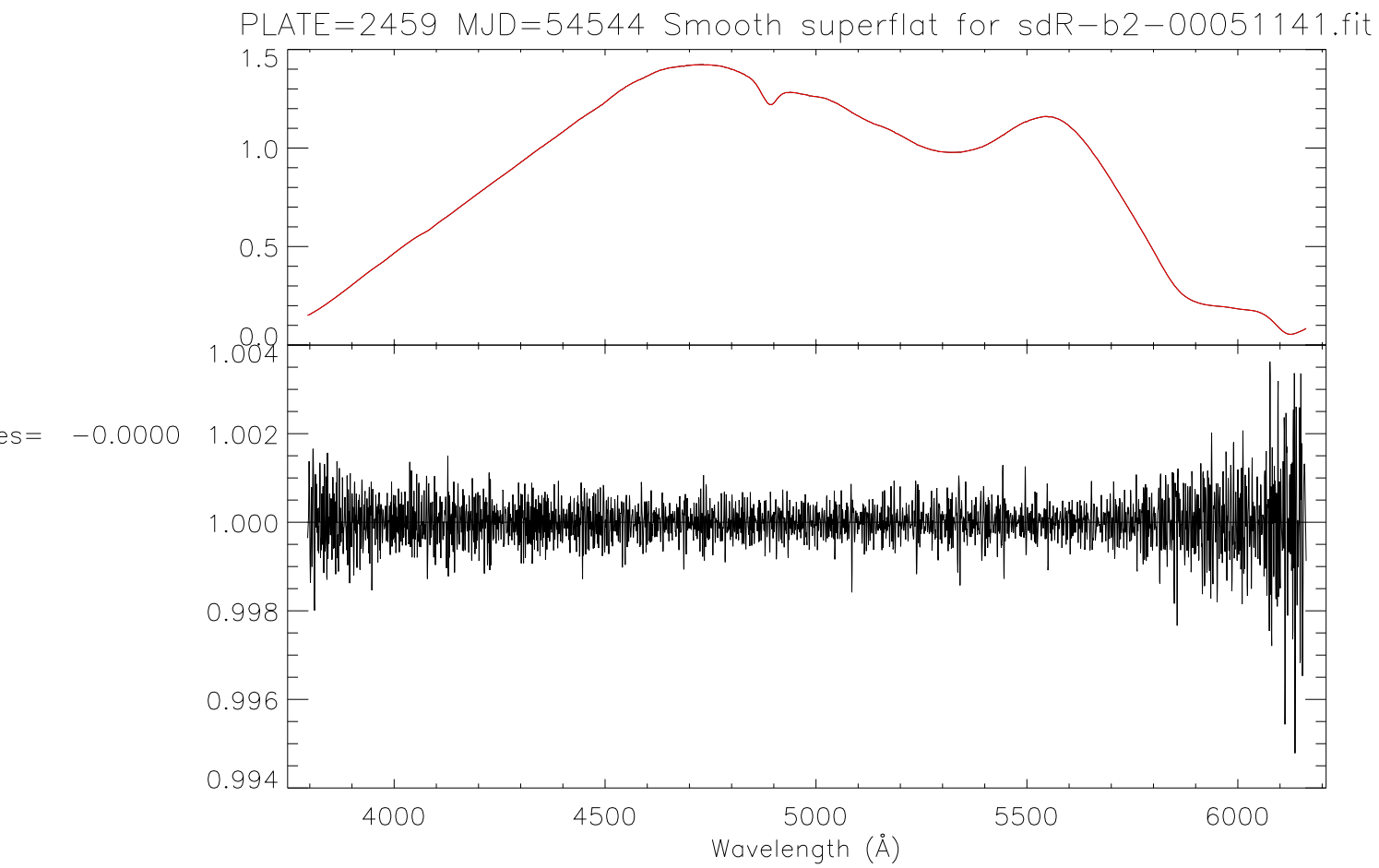

5577.3390
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

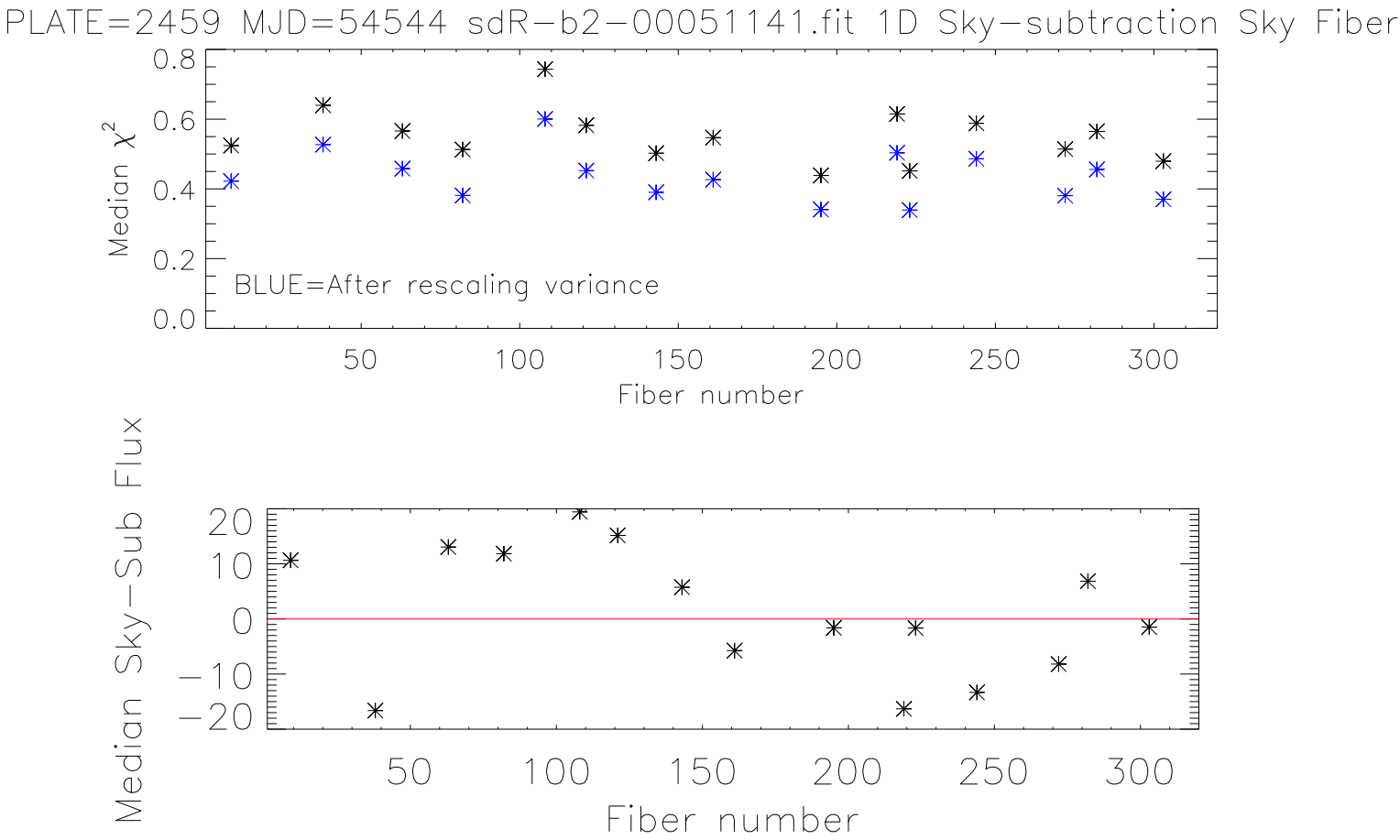

5889.9500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

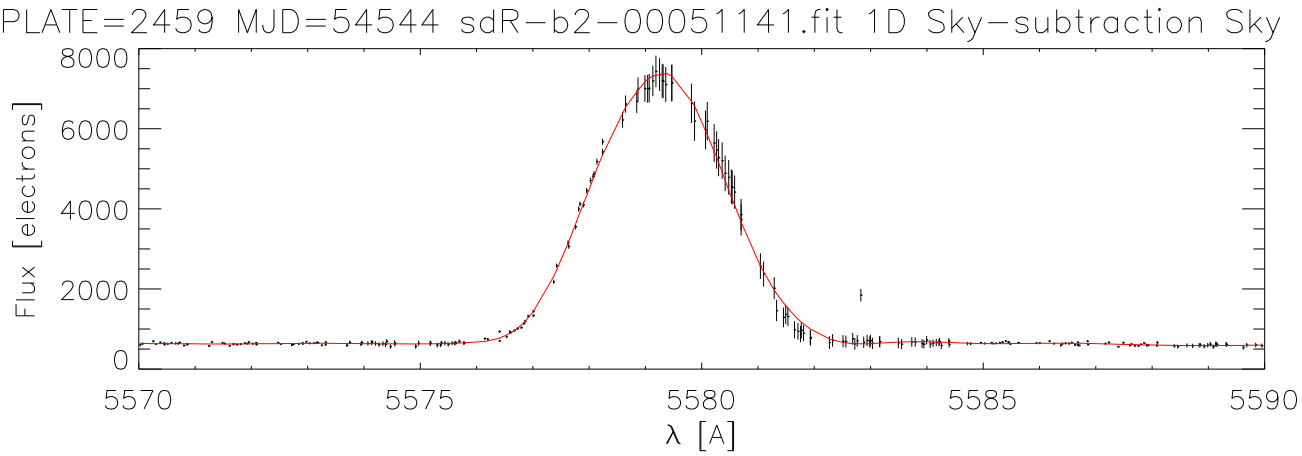

5895.9240
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

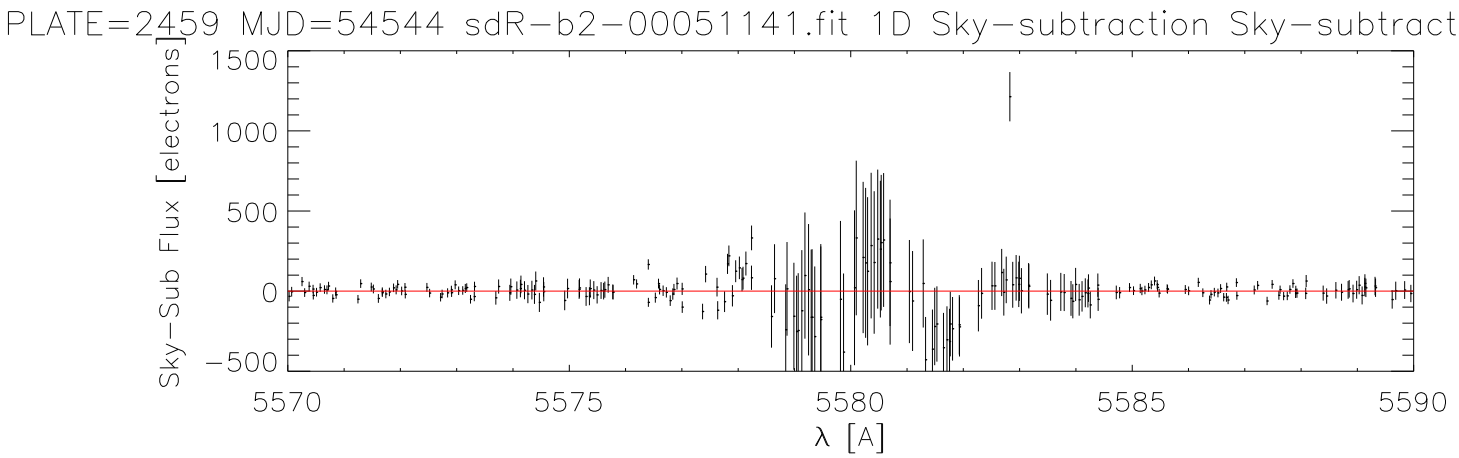

4046.5600
nfib1 16
nfib2 16
stdev 0.048
extra −0.14
4358.3300
nfib1 16
nfib2 16
stdev 0.025
extra −0.12
5460.9400
nfib1 16
nfib2 16
stdev 0.035
extra −0.09
5577.3390
nfib1 15
nfib2 15
stdev 0.010
extra −0.12
5889.9500
nfib1 15
nfib2 16
stdev 0.022
extra −0.00
5895.9240
nfib1 16
nfib2 16
stdev 0.042
extra −0.02
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

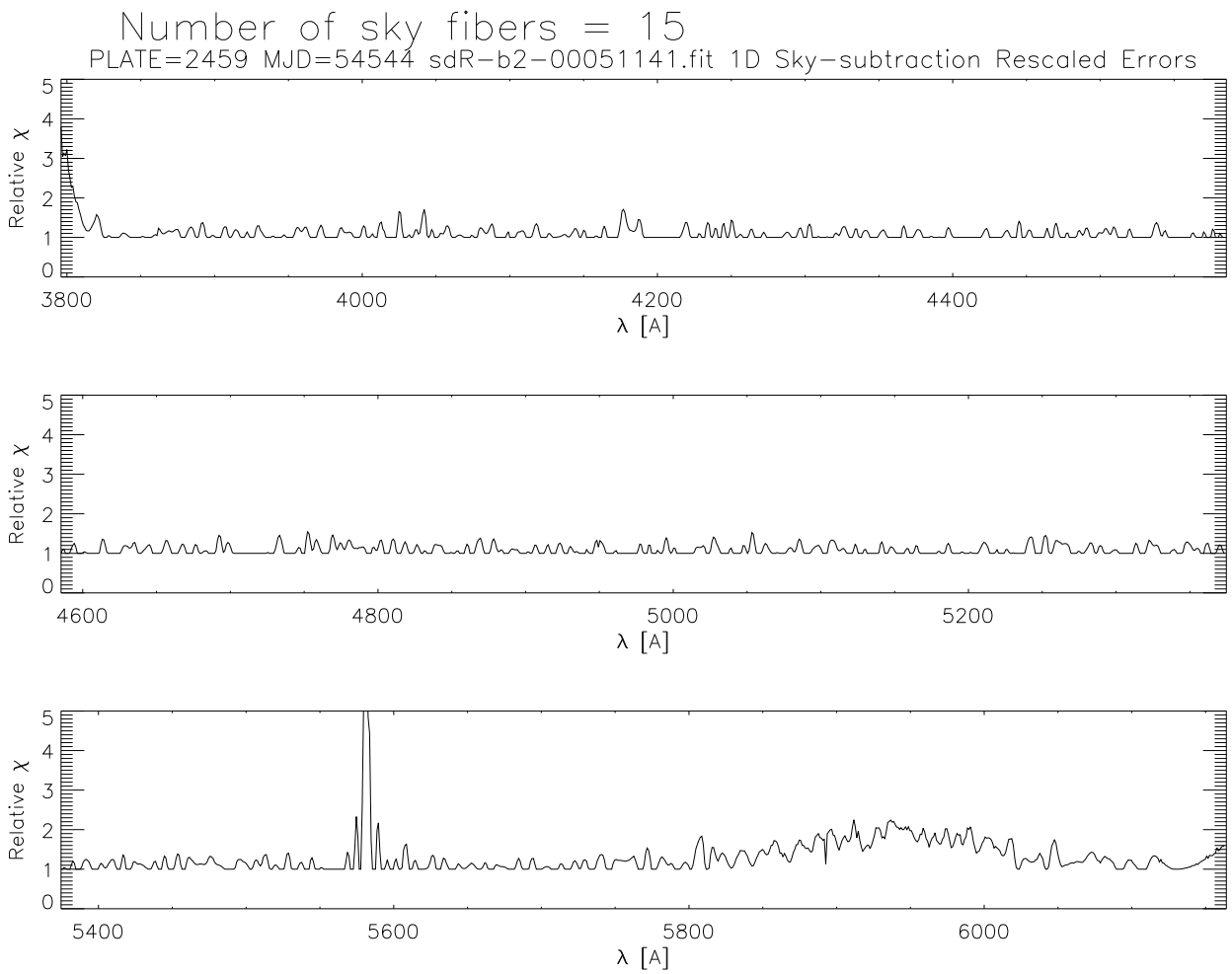

0.00
−0.05
−0.10
−0.15
−0.20
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

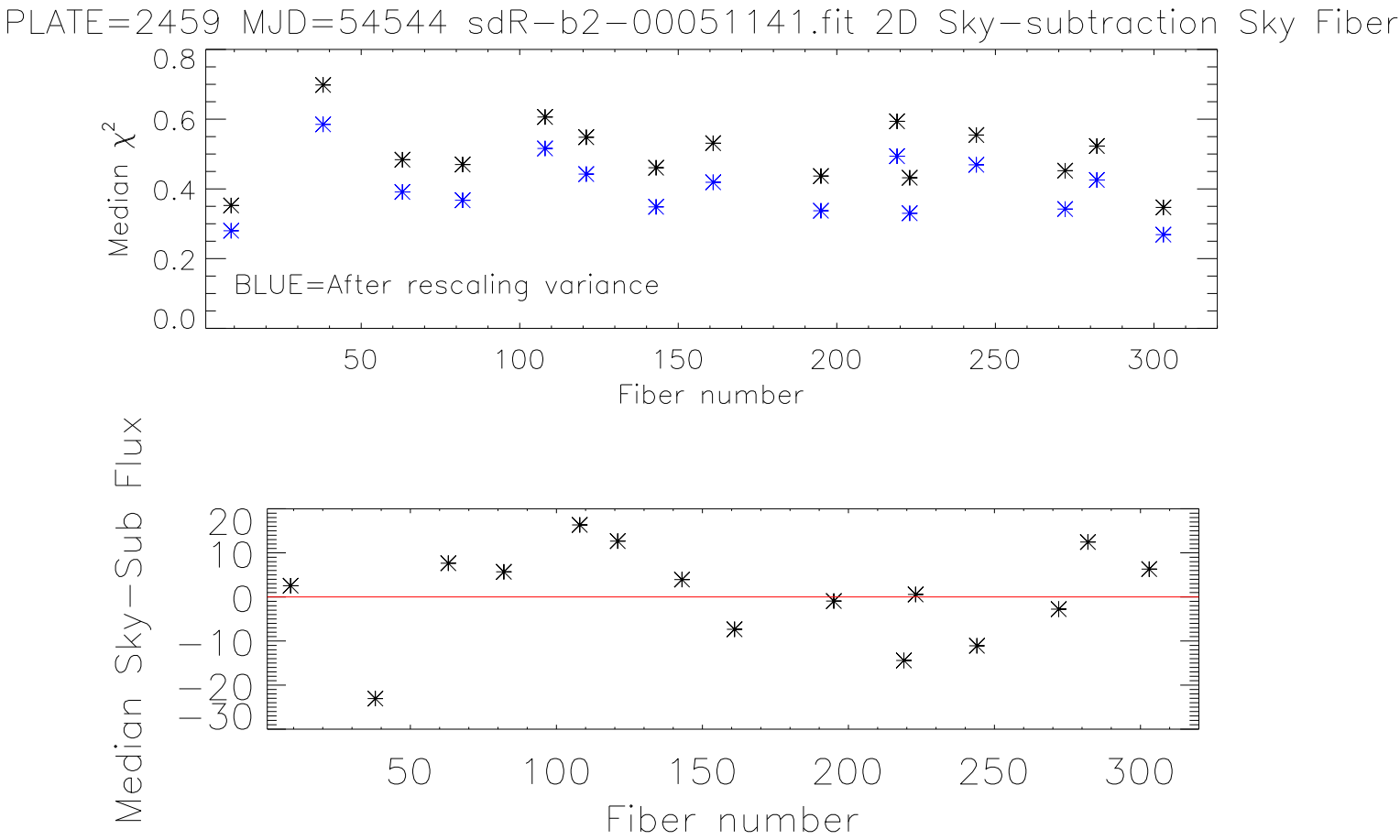

PLATE=2459 MJD=54544 Smooth superflat for sdR-b2-00051141.fit
1.5
1.0
0.5
0.0
1.004
1.002
1.000
0.998
0.996
0.994
es= -0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

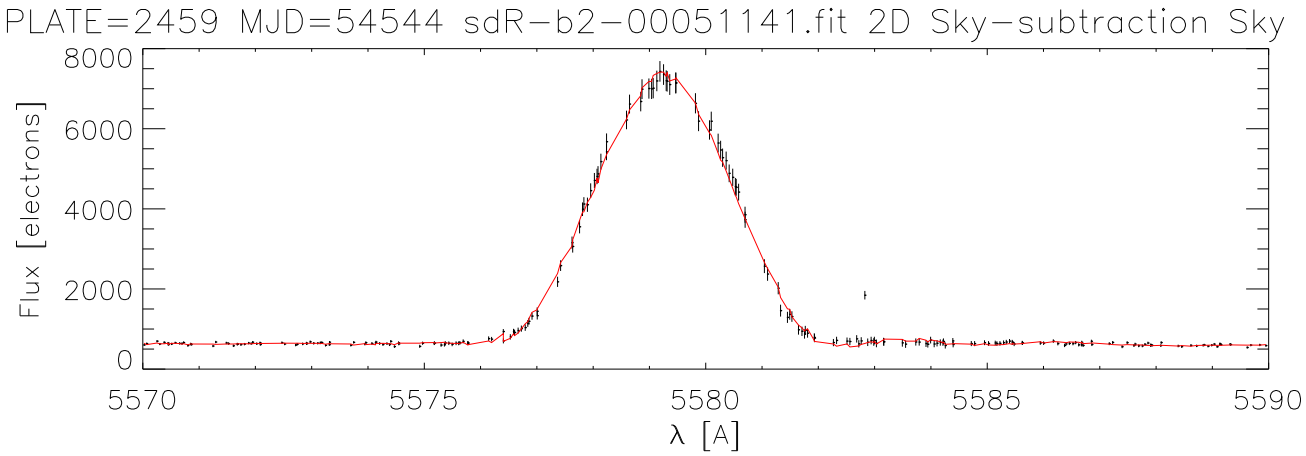

PLATE=2459 MJD=54544 sdR-b2-00051141.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
10
0
-10
-20
50
100
150
200
250
300
Fiber number

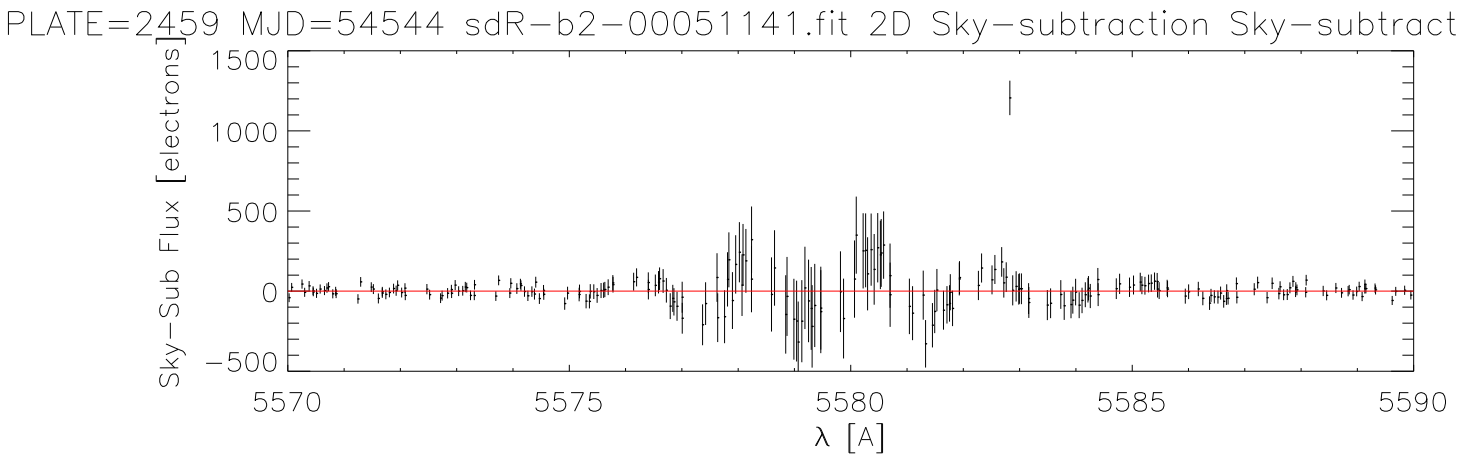

PLATE=2459 MJD=54544 sdR-b2-00051141.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

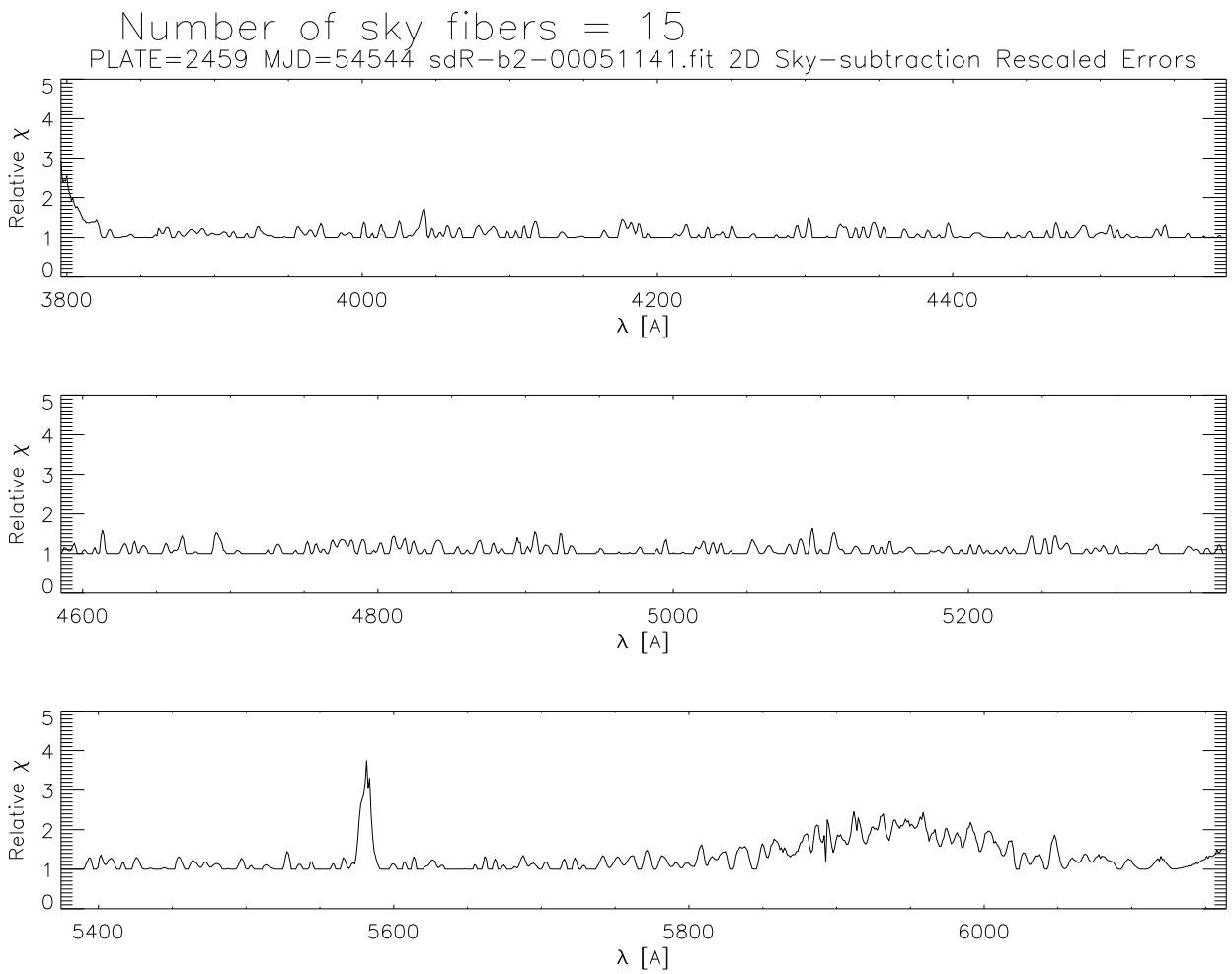

PLATE=2459 MJD=54544 sdR-b2-00051141.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
−500
5570
5575
5580
5585
5590
λ [A]

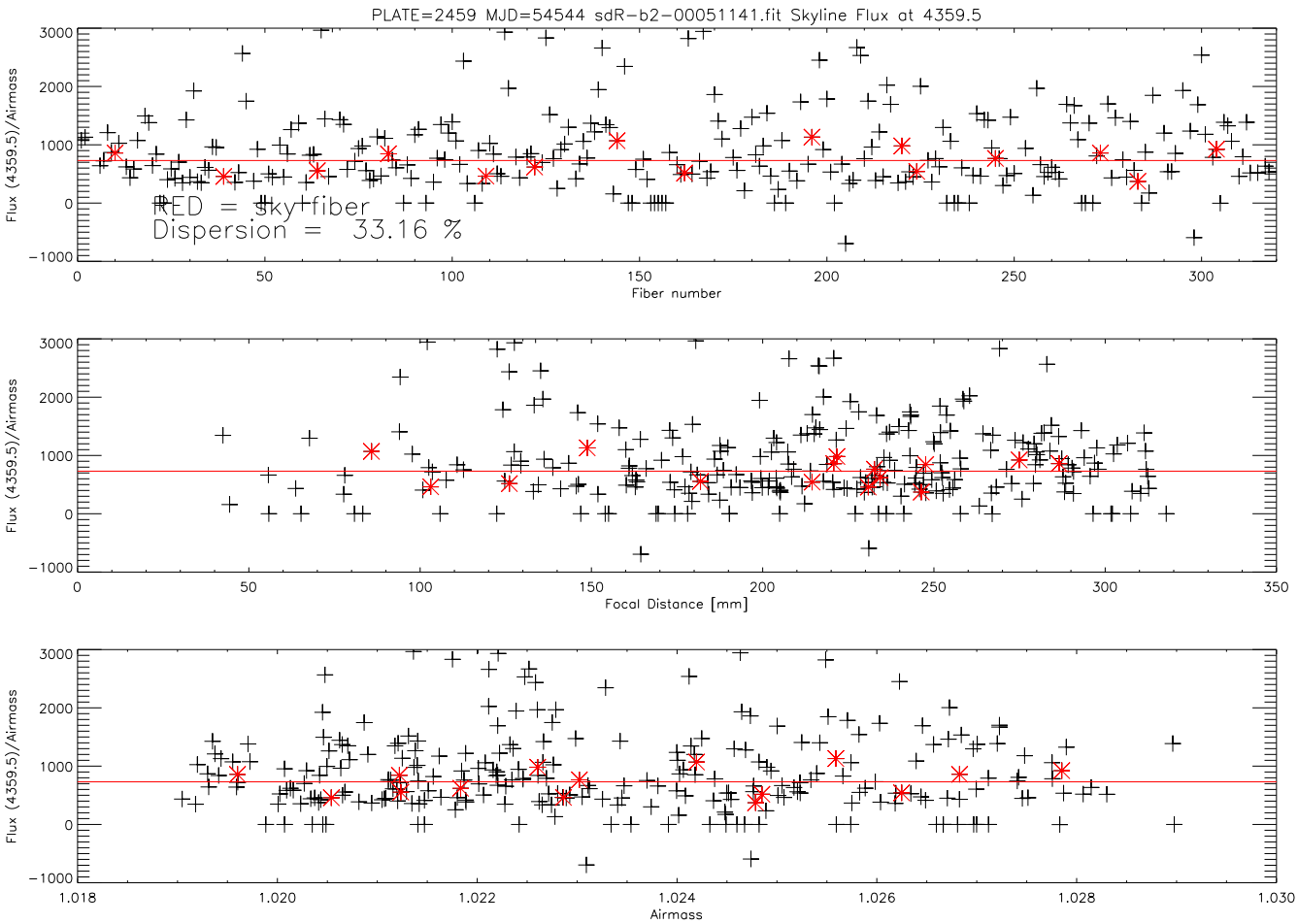

Number of sky fibers = 15
PLATE=2459 MJD=54544 sdR-b2-00051141.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

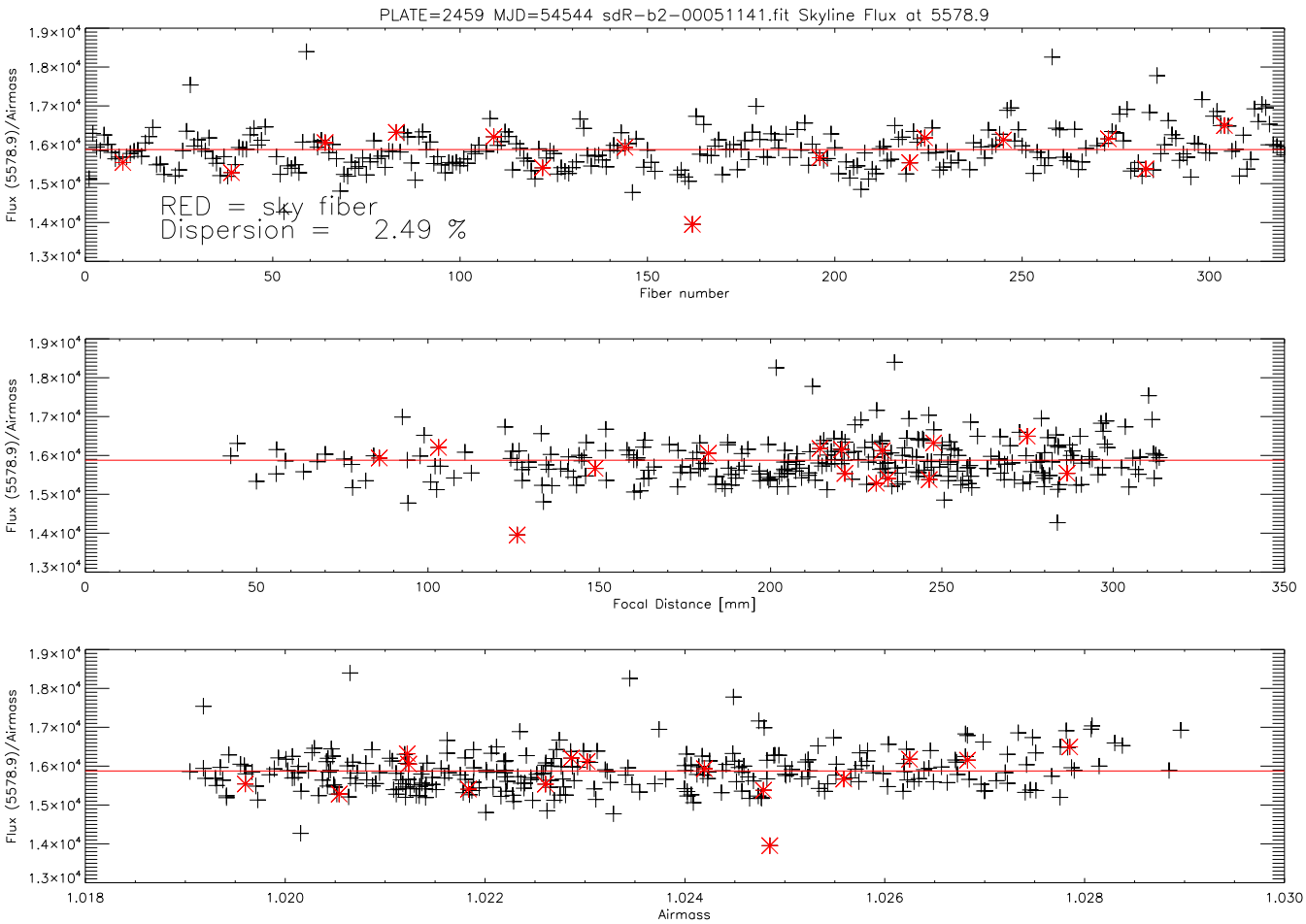

PLATE=2459 MJD=54544 sdR-b2-00051141.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
10
0
-10
-20
-30
50
100
150
200
250
300
Fiber number

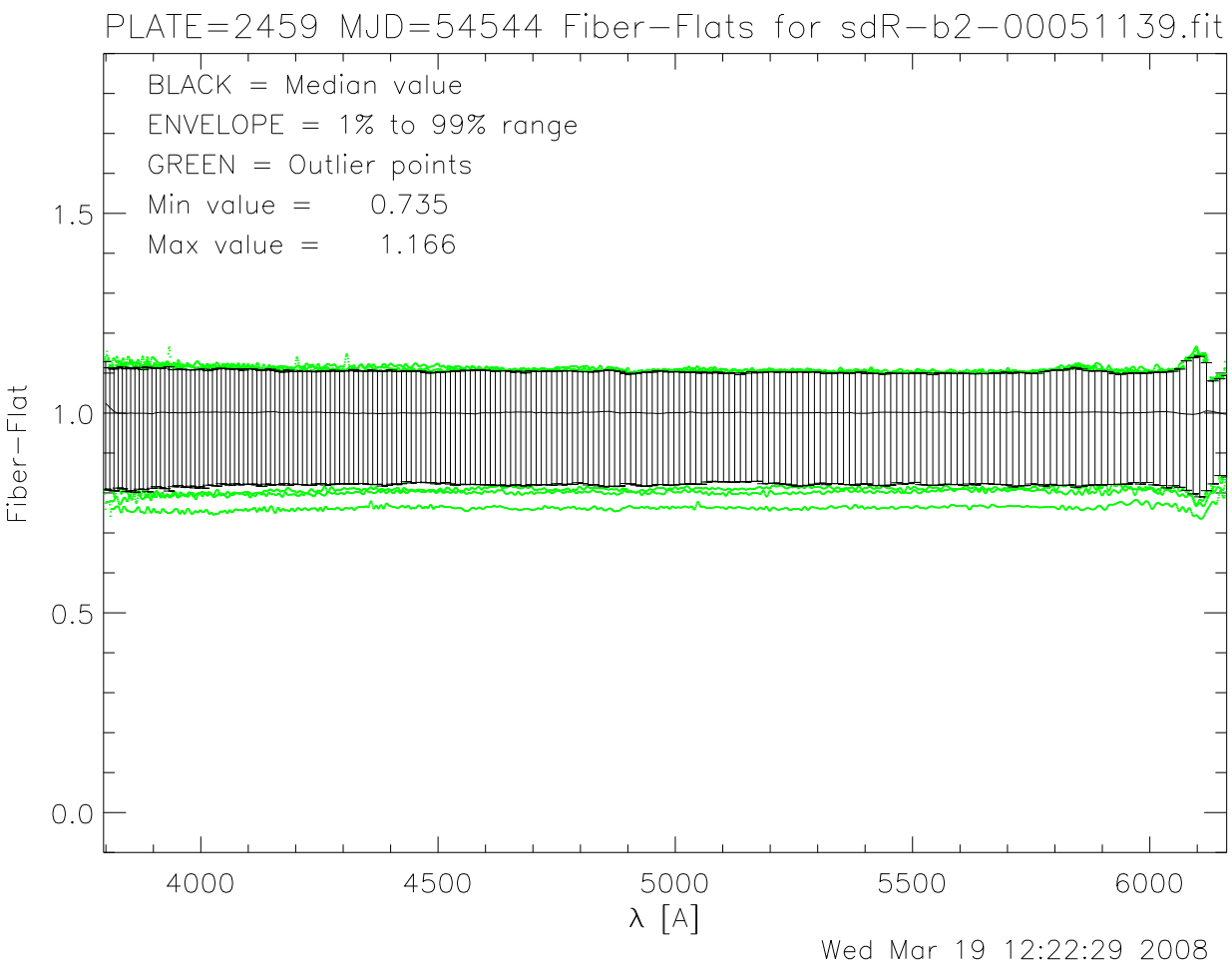

PLATE=2459 MJD=54544 sdR-b2-00051141.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

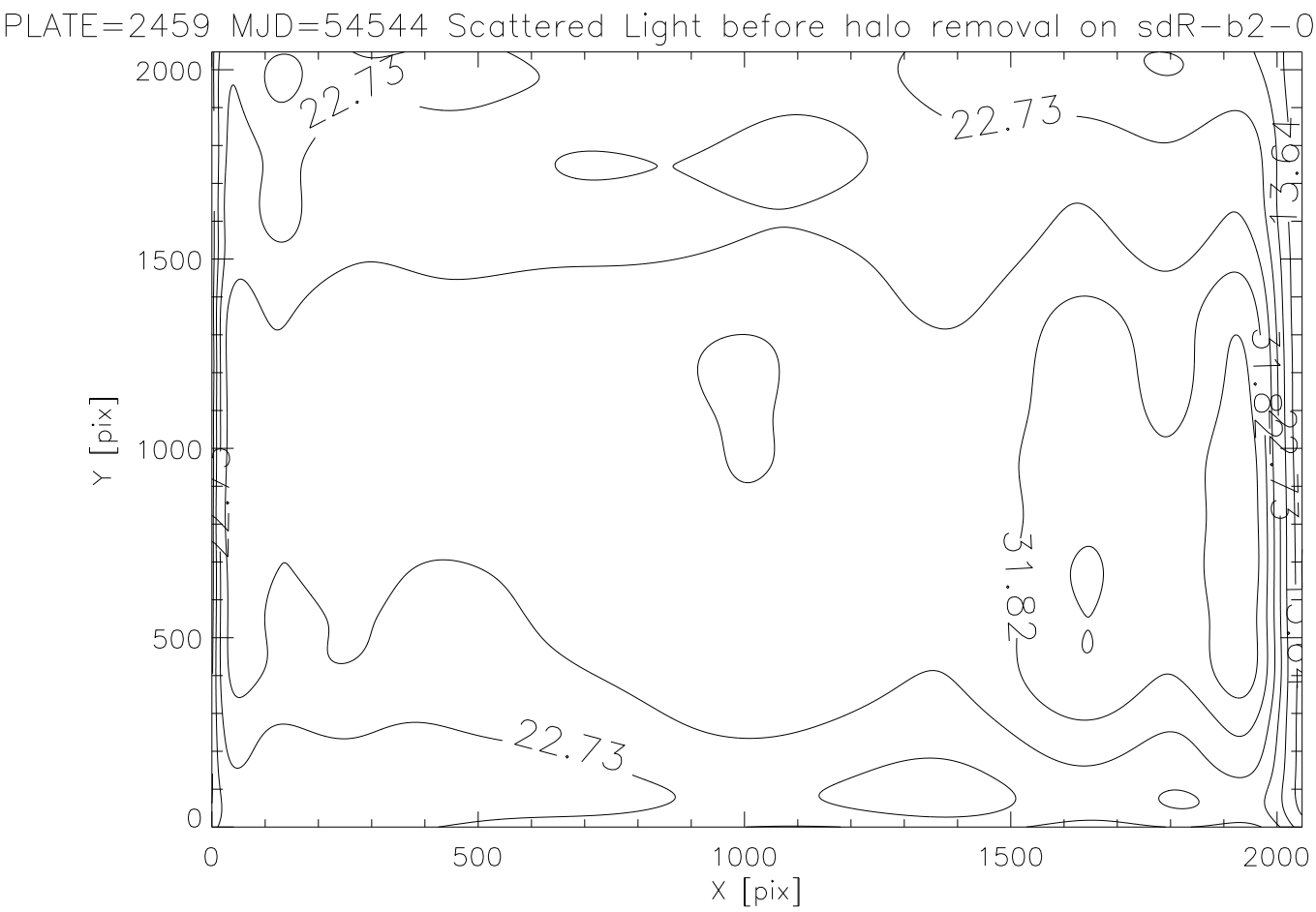

PLATE=2459 MJD=54544 sdR-b2-00051141.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
−500
5570
5575
5580
5585
5590
λ [A]

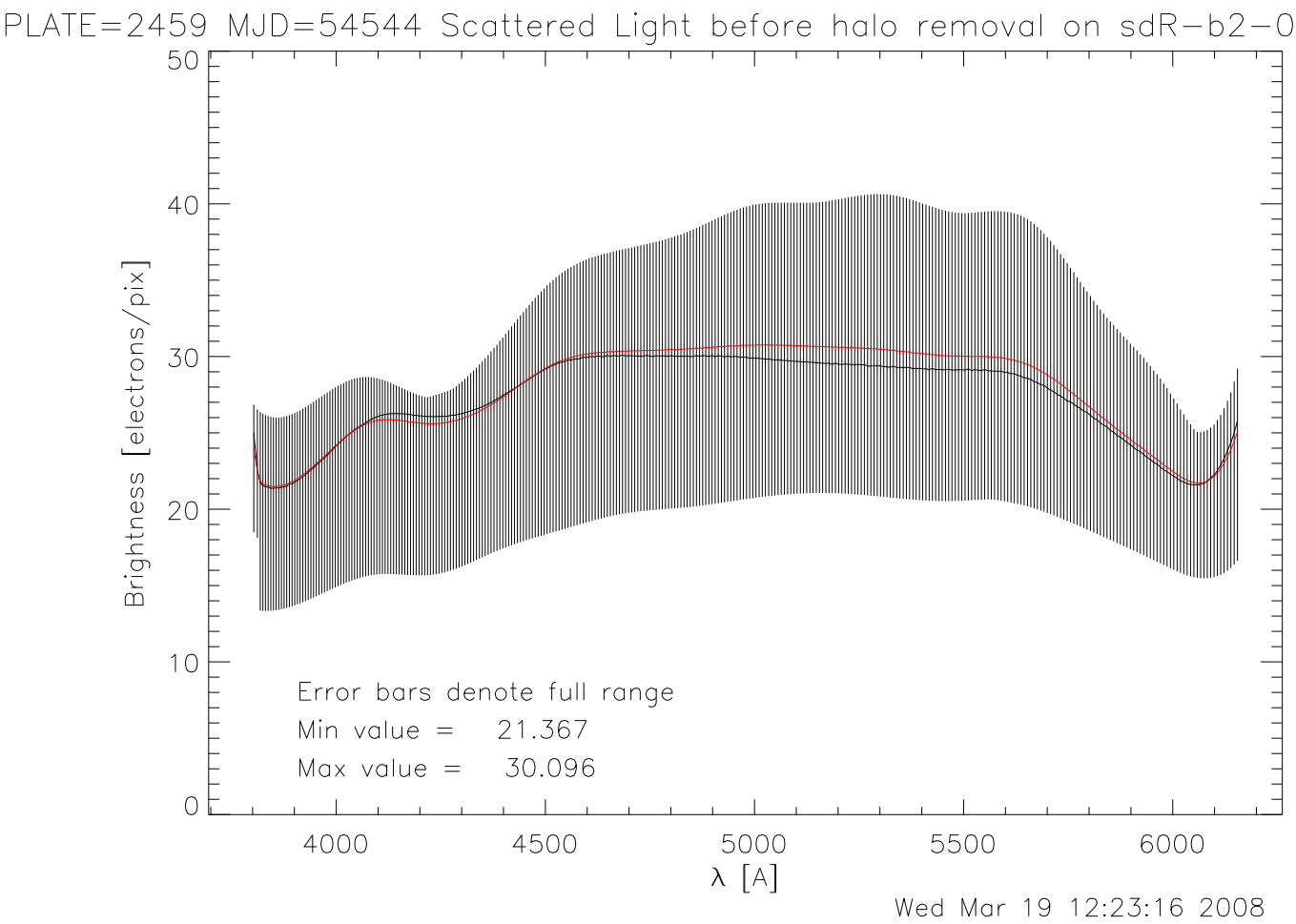

Number of sky fibers = 15
PLATE=2459 MJD=54544 sdR-b2-00051141.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

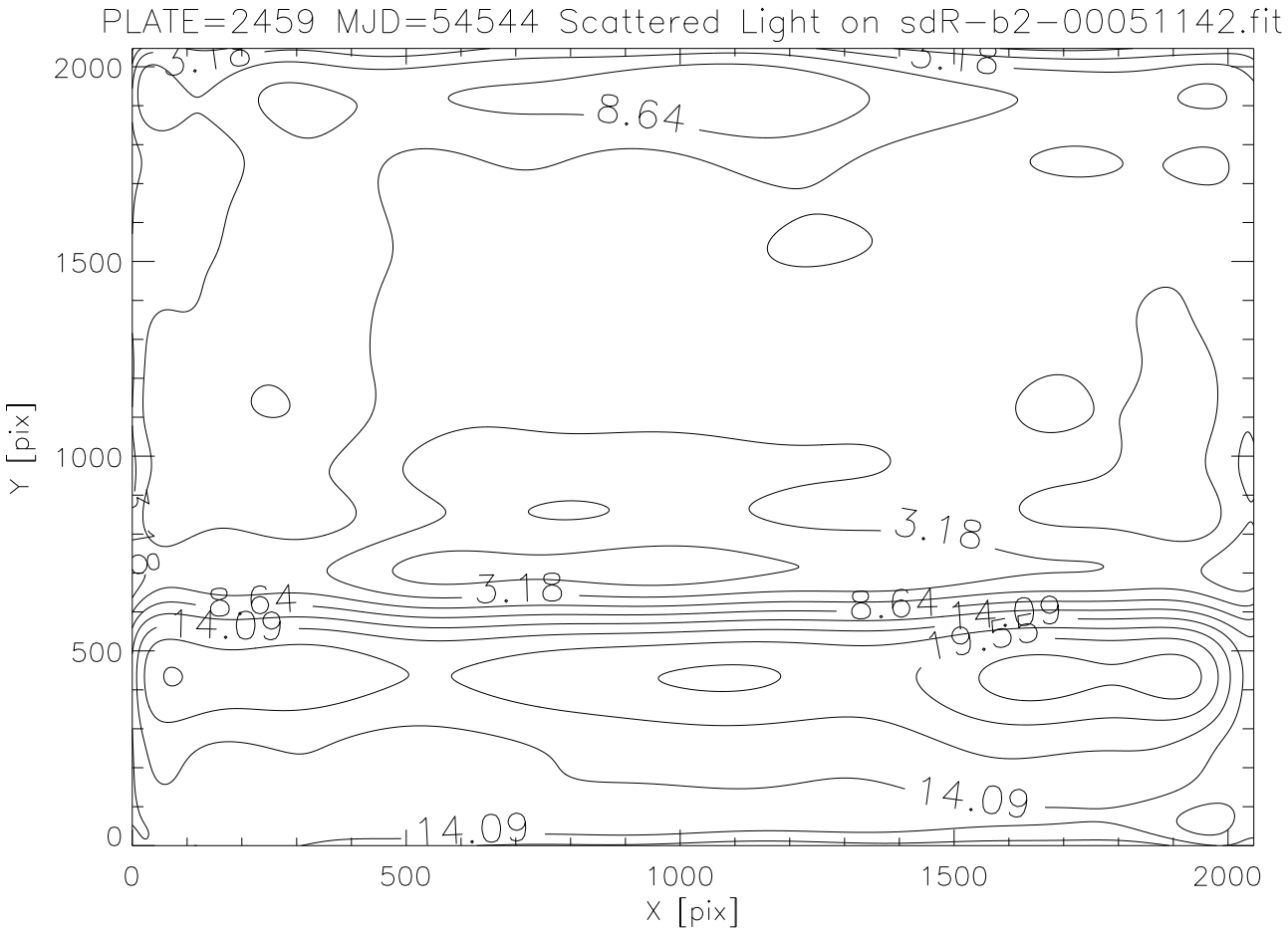

PLATE=2459 MJD=54544 sdR-b2-00051141.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = skyfiber
Dispersion = 33.16 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

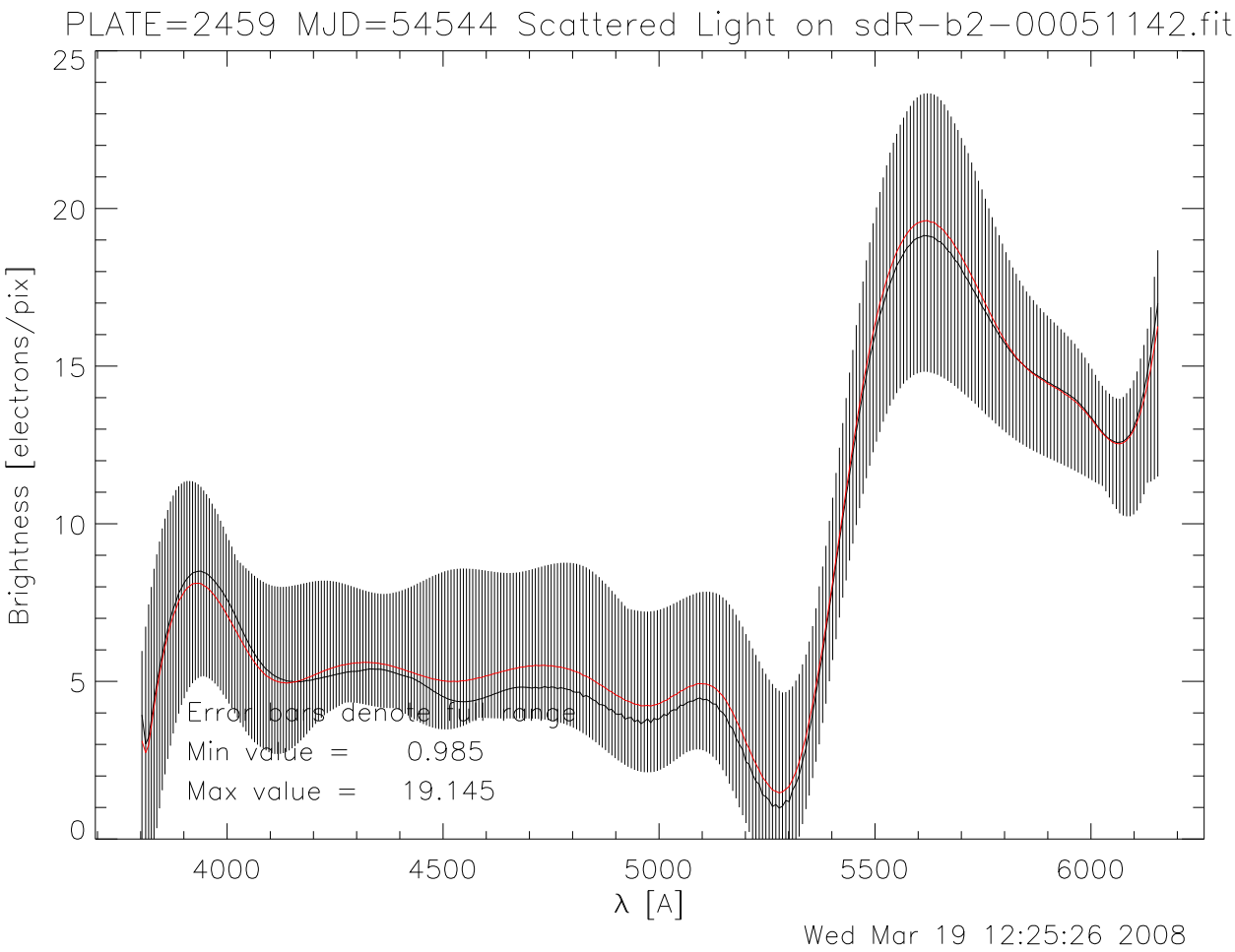

PLATE=2459 MJD=54544 sdR-b2-00051141.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.49 %
Fiber number
Focal Distance [mm]
Airmass

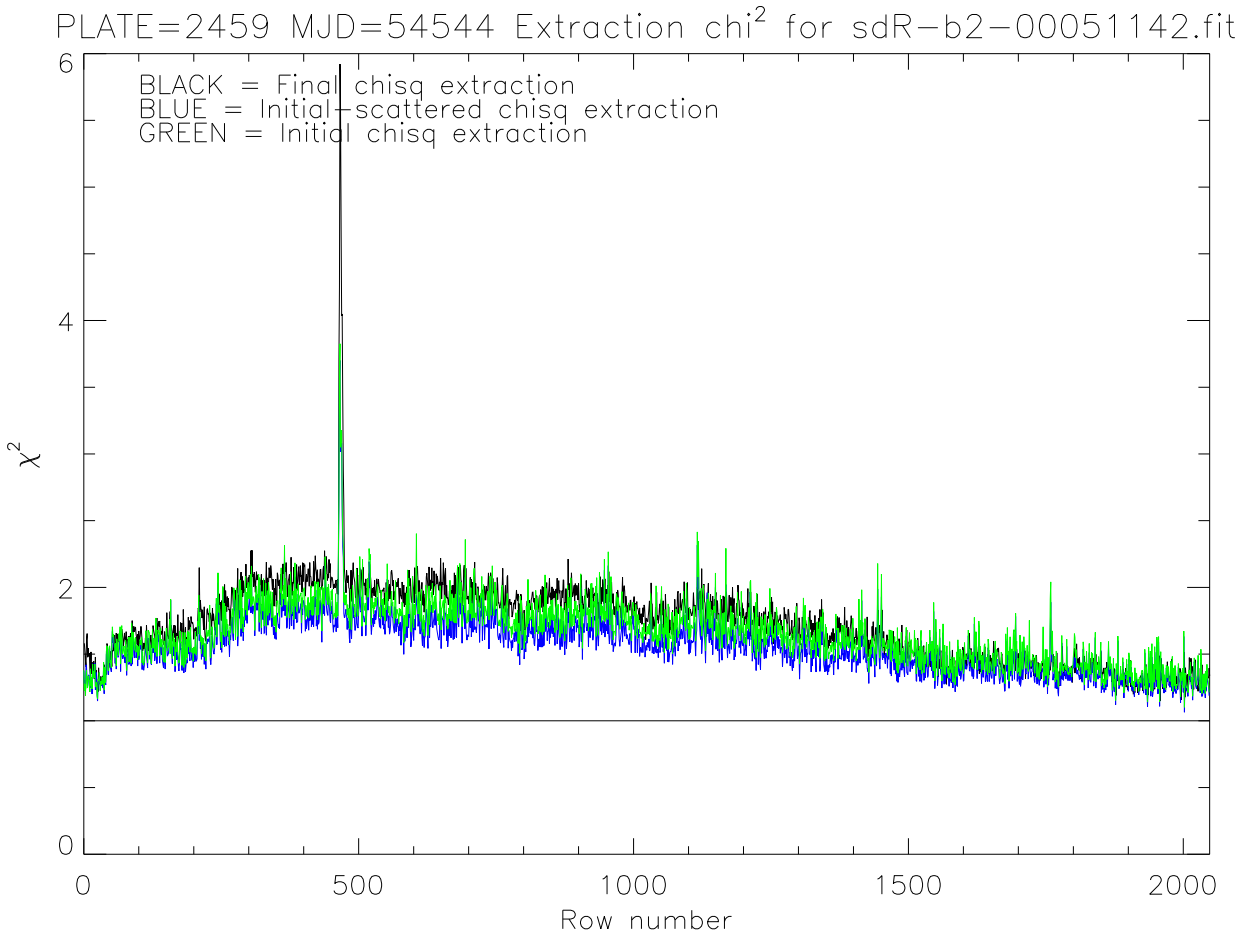

PLATE=2459 MJD=54544 Fiber−Flats for sdR−b2−00051139.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.735
Max value = 1.166
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 19 12:22:29 2008

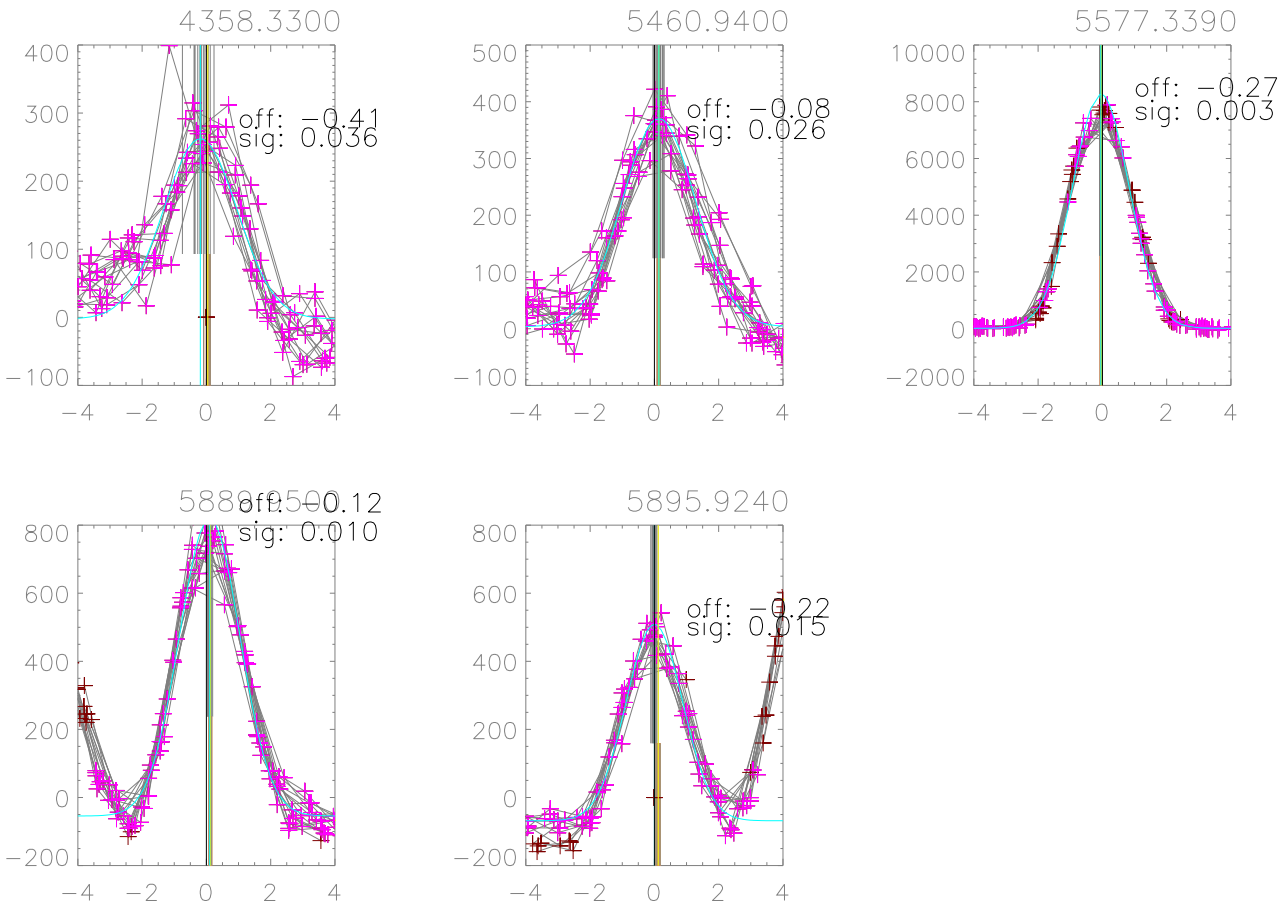

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-b2-00051142.f
22.73
22.73
22.73
31.82
31.82
13.64
0
0
0
0
2000
1500
1000
500
0
0
500
1000
1500
2000
Y [pix]
X [pix]

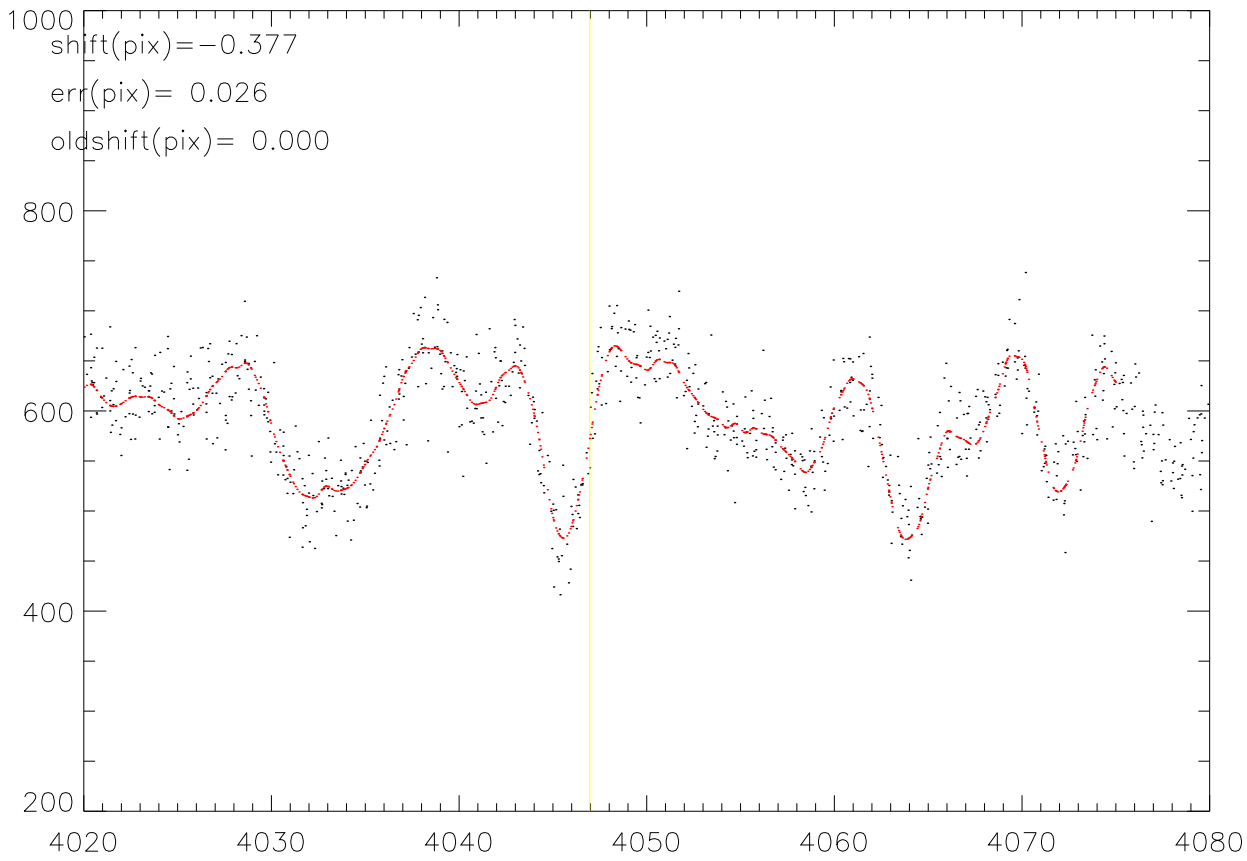

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-b2-00051142.f
Brightness [electrons/pix]
50
40
30
20
10
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 21.367
Max value = 30.096
Wed Mar 19 12:23:16 2008

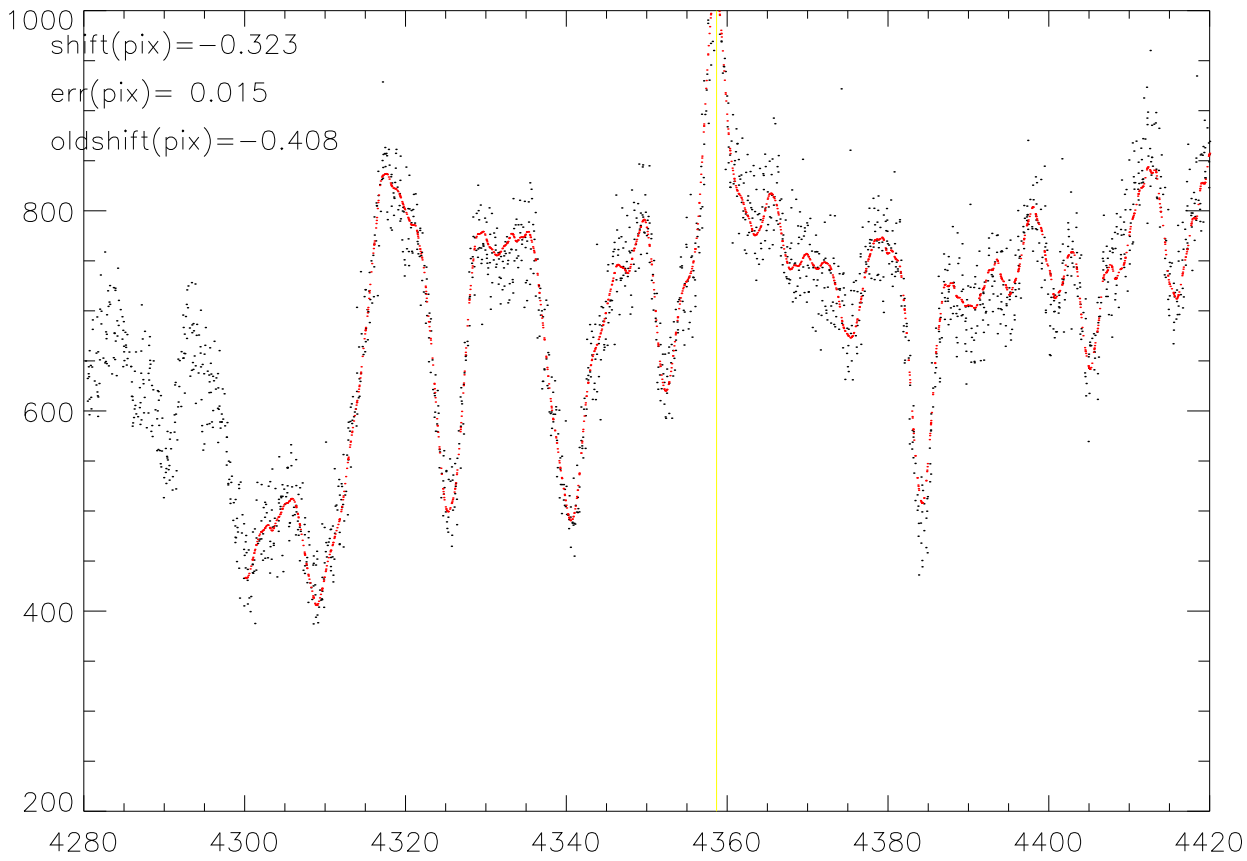

PLATE=2459 MJD=54544 Scattered Light on sdR-b2-00051142.fit
3.18
8.64
14.09
19.55
Y [pix]
X [pix]
0
500
1000
1500
2000

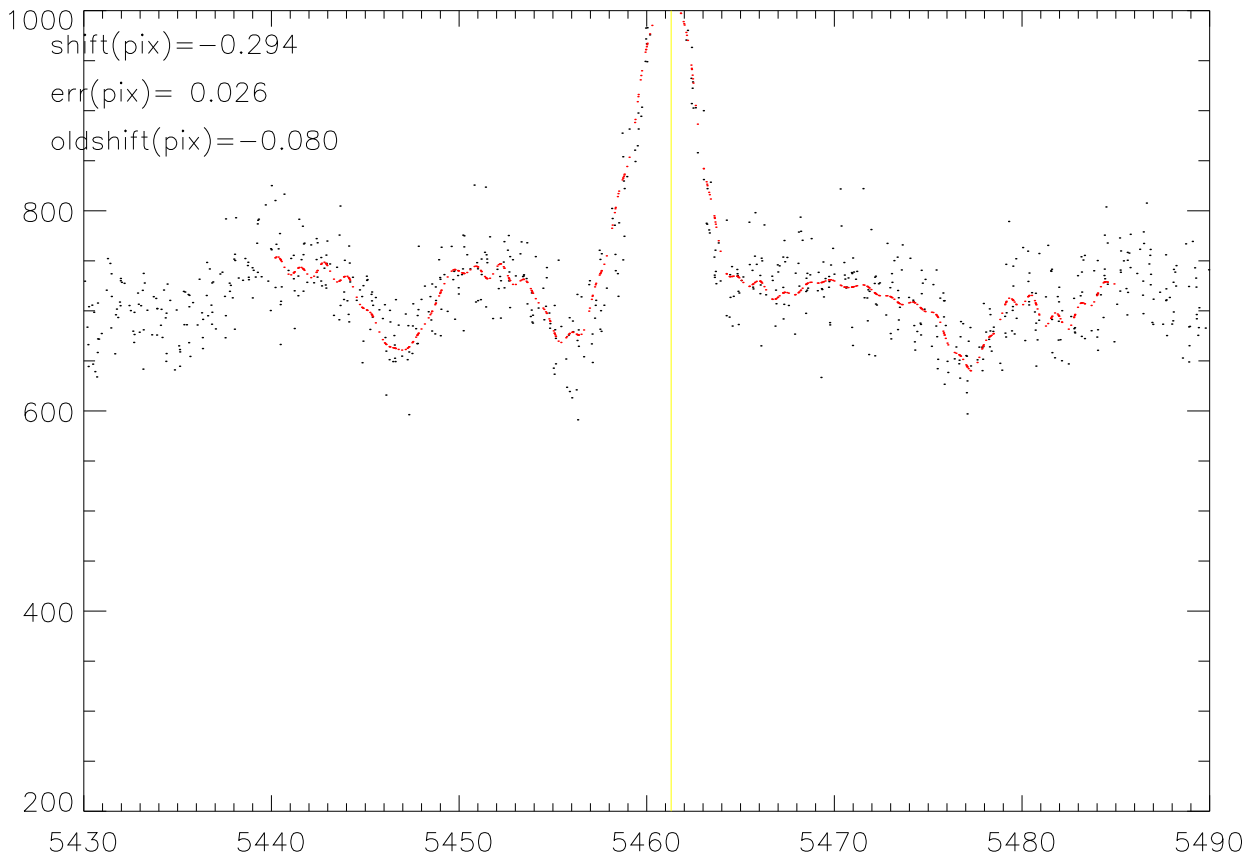

PLATE=2459 MJD=54544 Scattered Light on sdR-b2-00051142.fit
Brightness [electrons/pix]
25
20
15
10
5
0
Error bars denote full range
Min value = 0.985
Max value = 19.145
4000
4500
5000
5500
6000
λ [A]
Wed Mar 19 12:25:26 2008

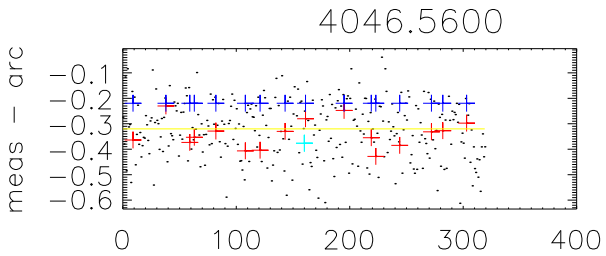

PLATE=2459 MJD=54544 Extraction chi^2 for sdR-b2-00051142.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
0
500
1000
1500
2000
Row number

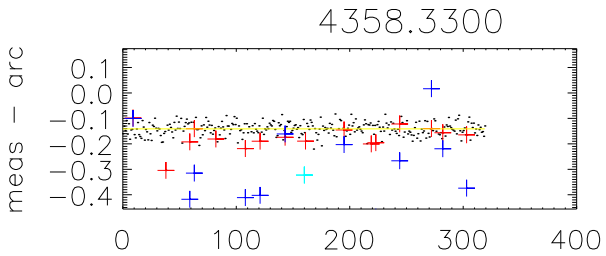

4358.3300
off: −0.41
sig: 0.036
5460.9400
off: −0.08
sig: 0.026
5577.3390
off: −0.27
sig: 0.003
5889.9500
off: −0.12
sig: 0.010
5895.9240
off: −0.22
sig: 0.015

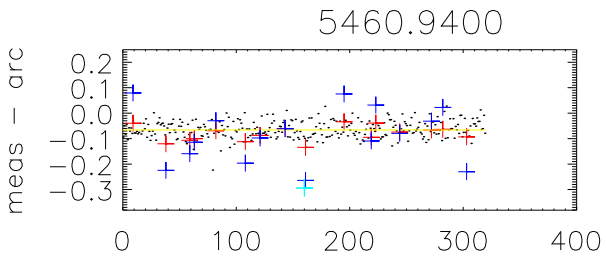

shift(pix)=−0.377
err(pix)= 0.026
oldshift(pix)= 0.000
1000
800
600
400
200
4020
4030
4040
4050
4060
4070
4080

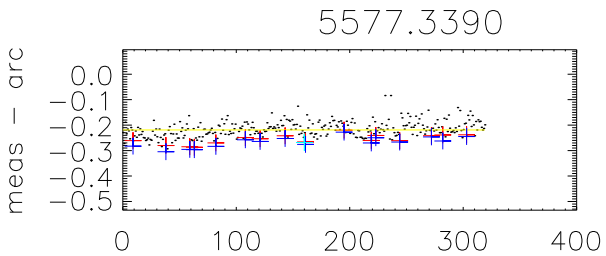

shift(pix)=−0.323
err(pix)= 0.015
oldshift(pix)=−0.408
1000
800
600
400
200
4280
4300
4320
4340
4360
4380
4400
4420

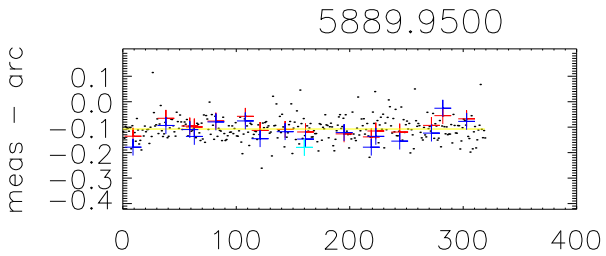

shift(pix)=−0.294
err(pix)= 0.026
oldshift(pix)=−0.080
1000
800
600
400
200
5430
5440
5450
5460
5470
5480
5490

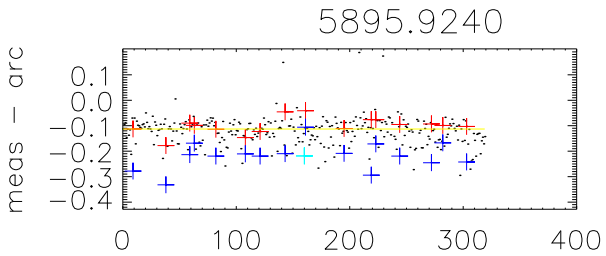

4046.5600
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

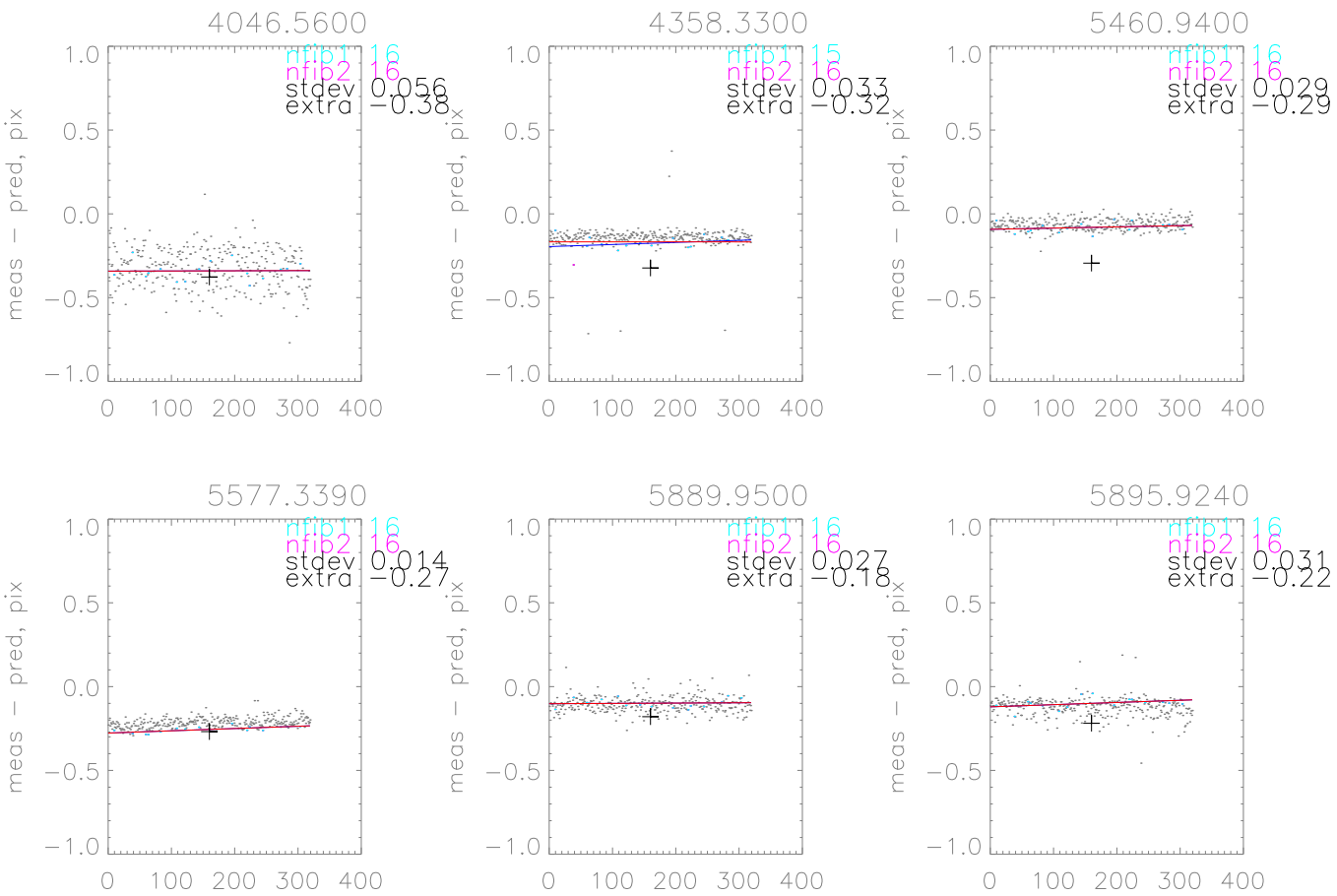

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

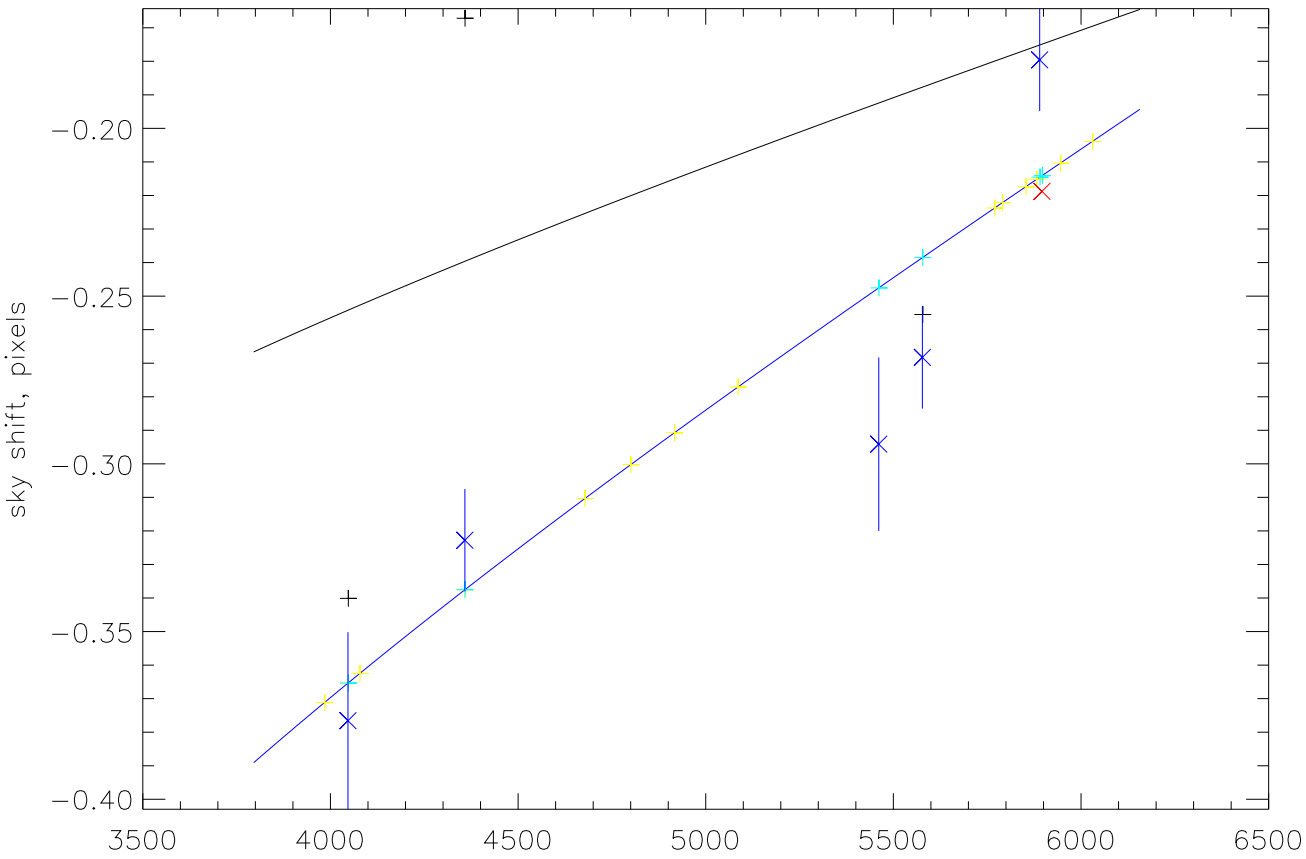

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

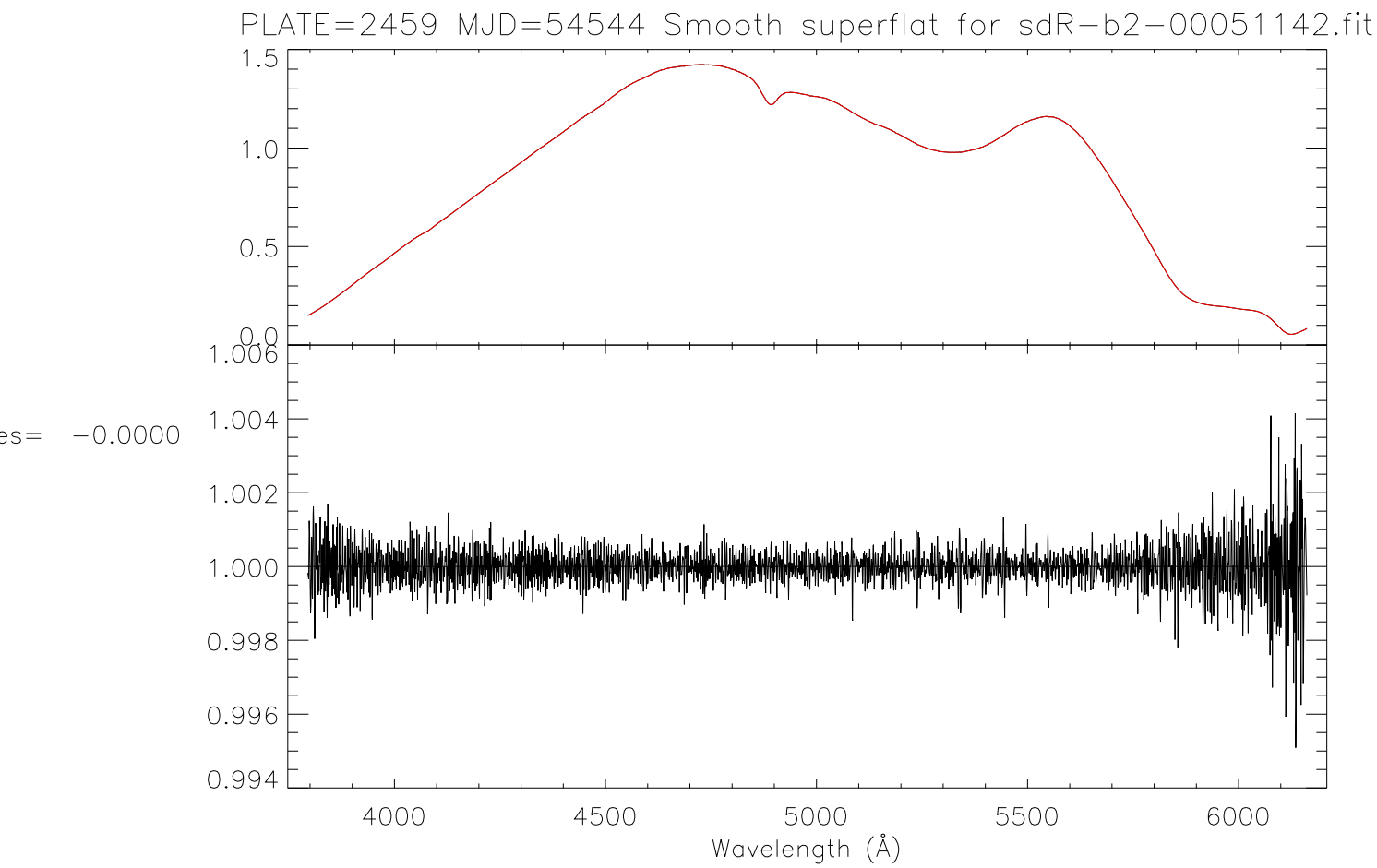

5577.3390
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400


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

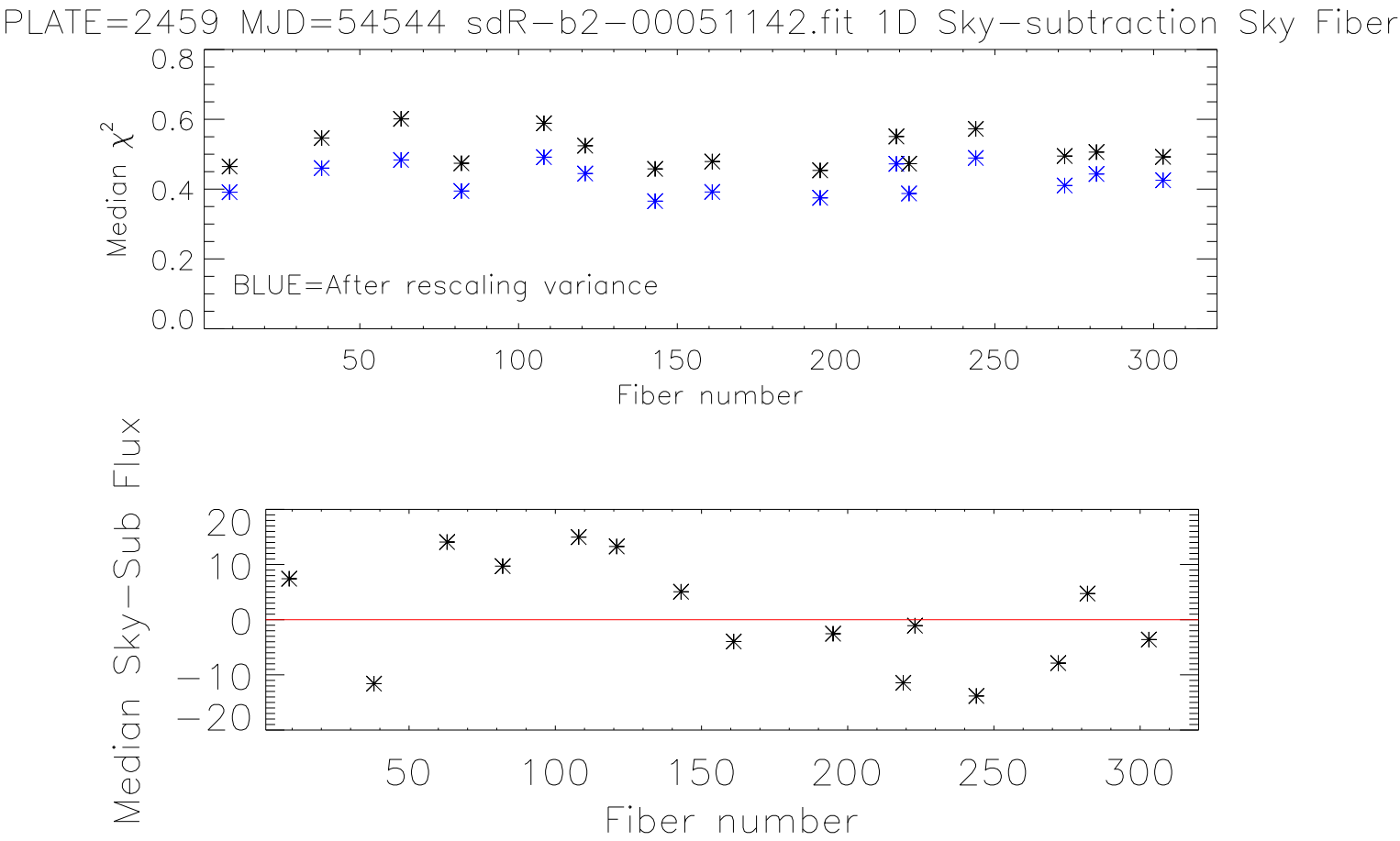

5895.9240
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

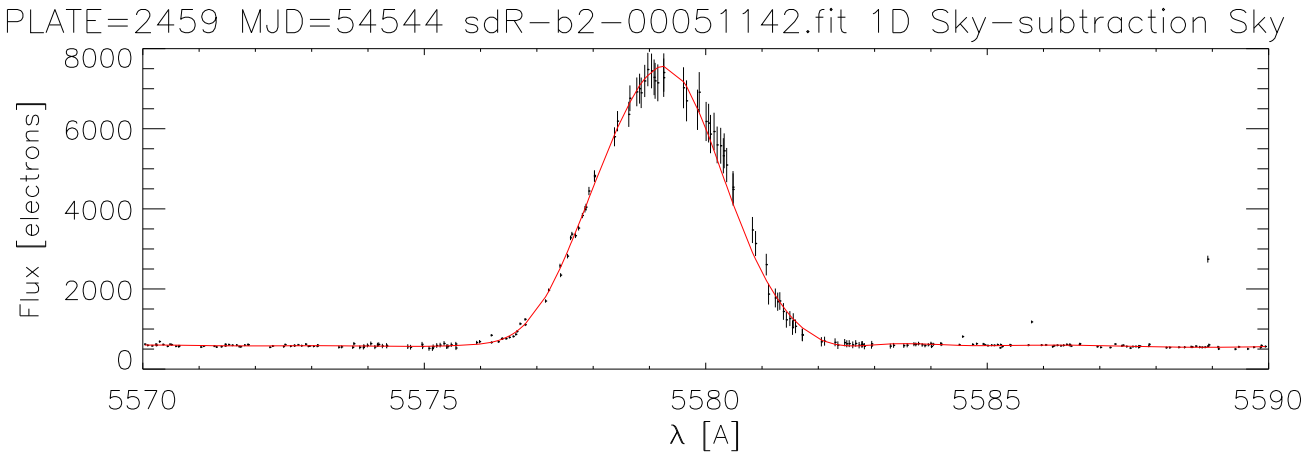

4046.5600
nfib1 16
nfib2 16
stdev 0.056
extra −0.38
4358.3300
nfib1 15
nfib2 16
stdev 0.033
extra −0.32
5460.9400
nfib1 16
nfib2 16
stdev 0.029
extra −0.29
5577.3390
nfib1 16
nfib2 16
stdev 0.014
extra −0.27
5889.9500
nfib1 16
nfib2 16
stdev 0.027
extra −0.18
5895.9240
nfib1 16
nfib2 16
stdev 0.031
extra −0.22
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

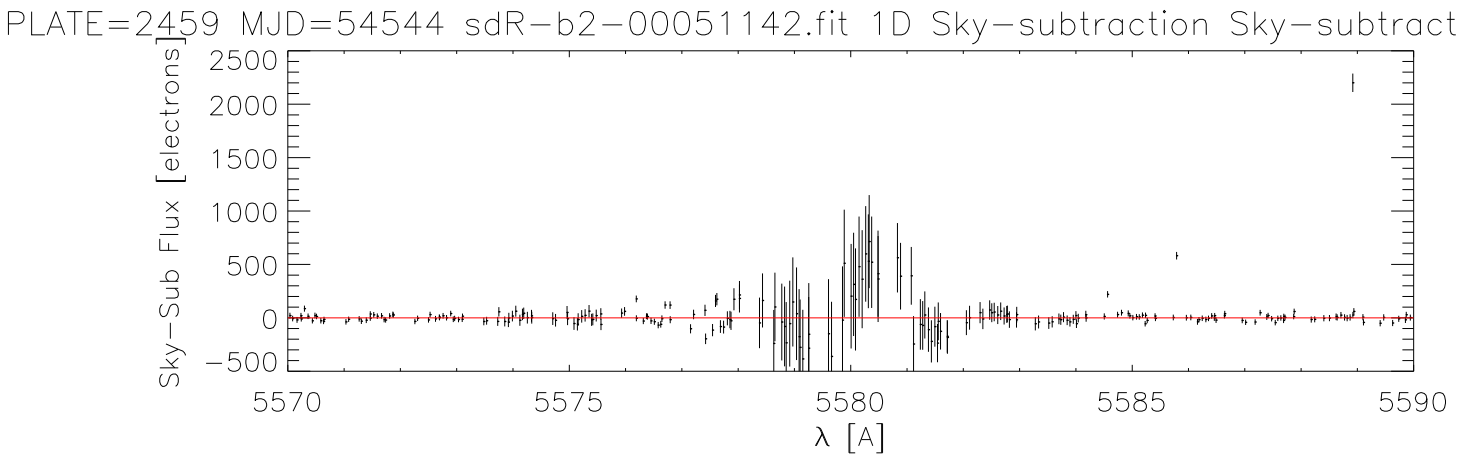

sky shift, pixels
−0.20
−0.25
−0.30
−0.35
−0.40
3500
4000
4500
5000
5500
6000
6500

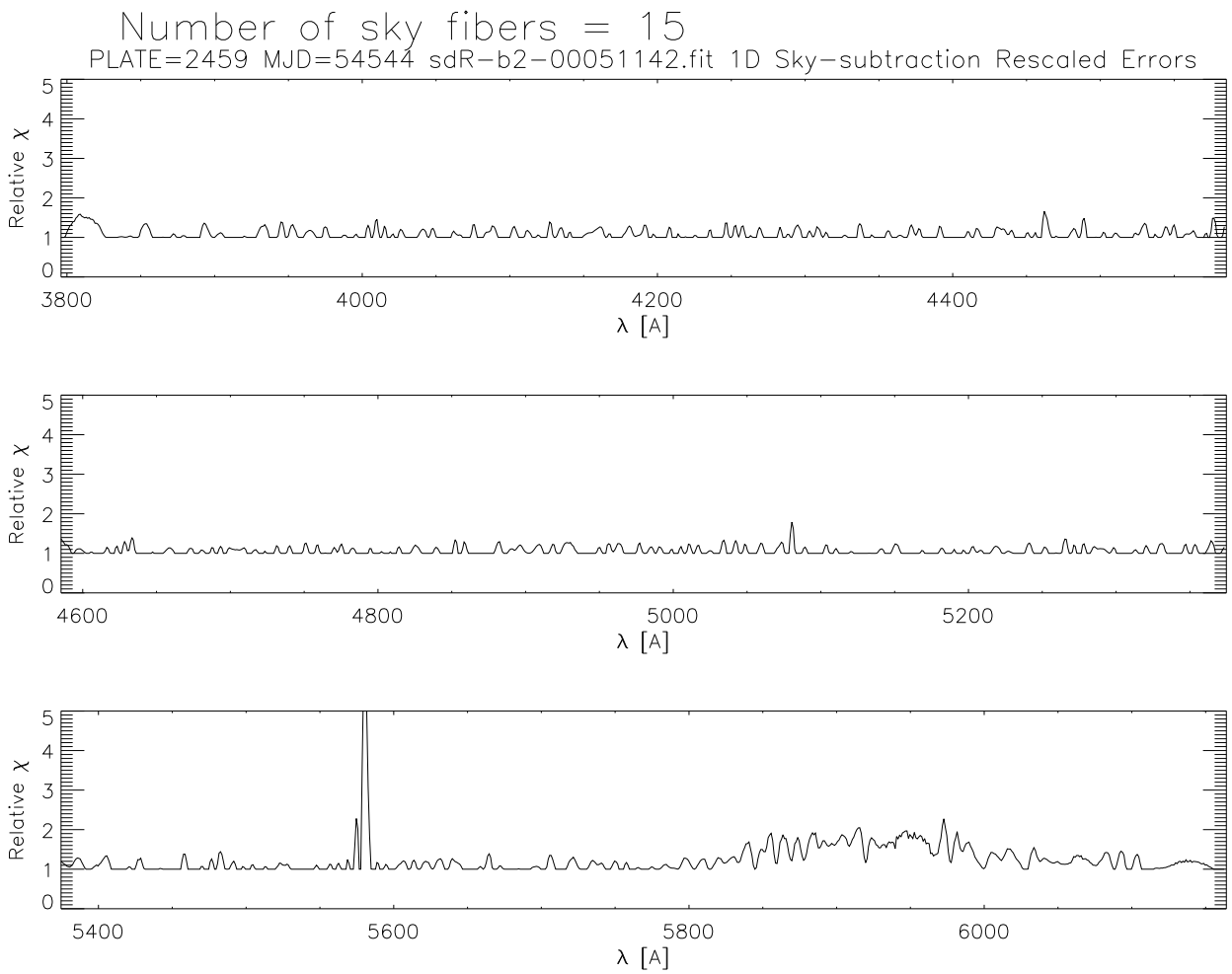

PLATE=2459 MJD=54544 Smooth superflat for sdR-b2-00051142.fit
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
4000
4500
5000
5500
6000
Wavelength (Å)

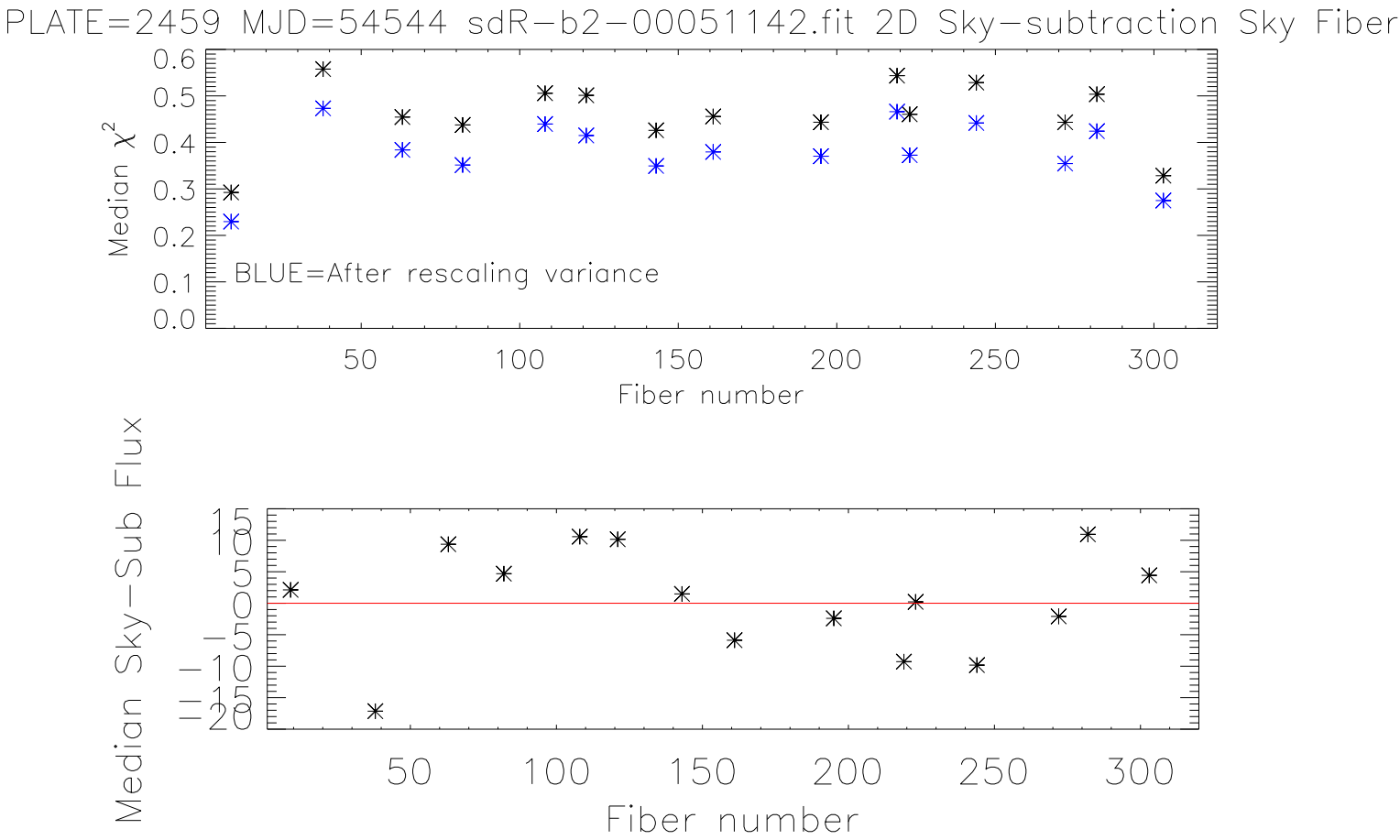
es= −0.0000

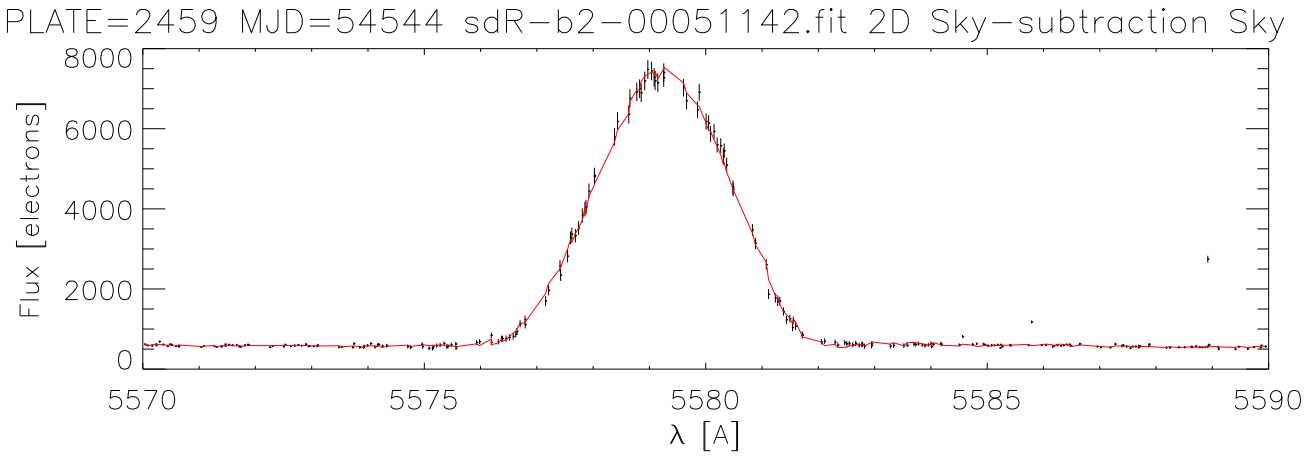

PLATE=2459 MJD=54544 sdR-b2-00051142.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
10
0
-10
-20
50
100
150
200
250
300
Fiber number

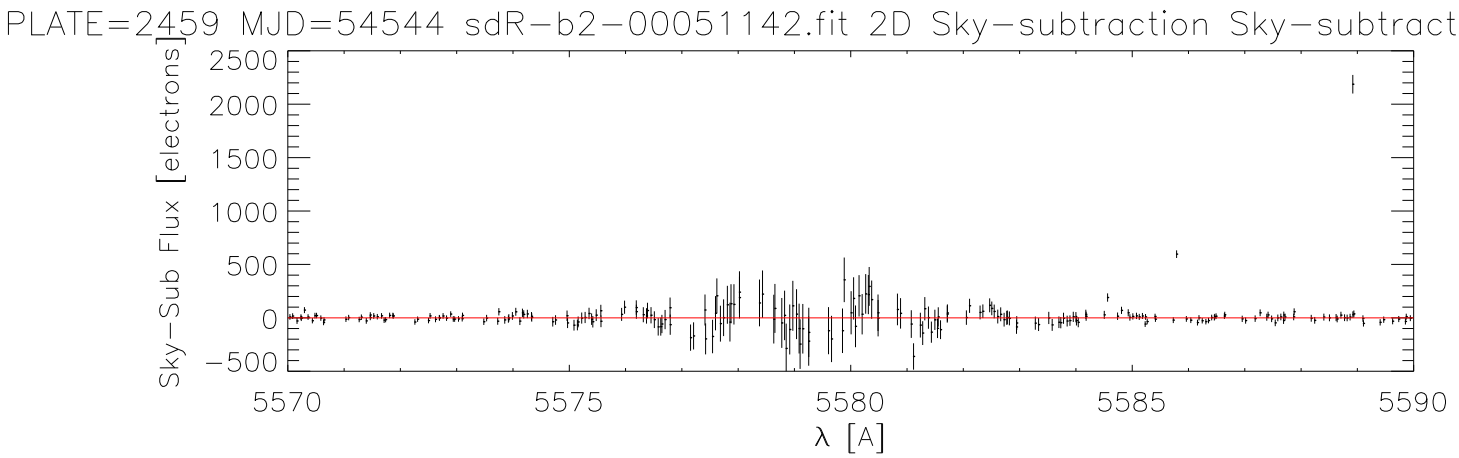

PLATE=2459 MJD=54544 sdR-b2-00051142.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

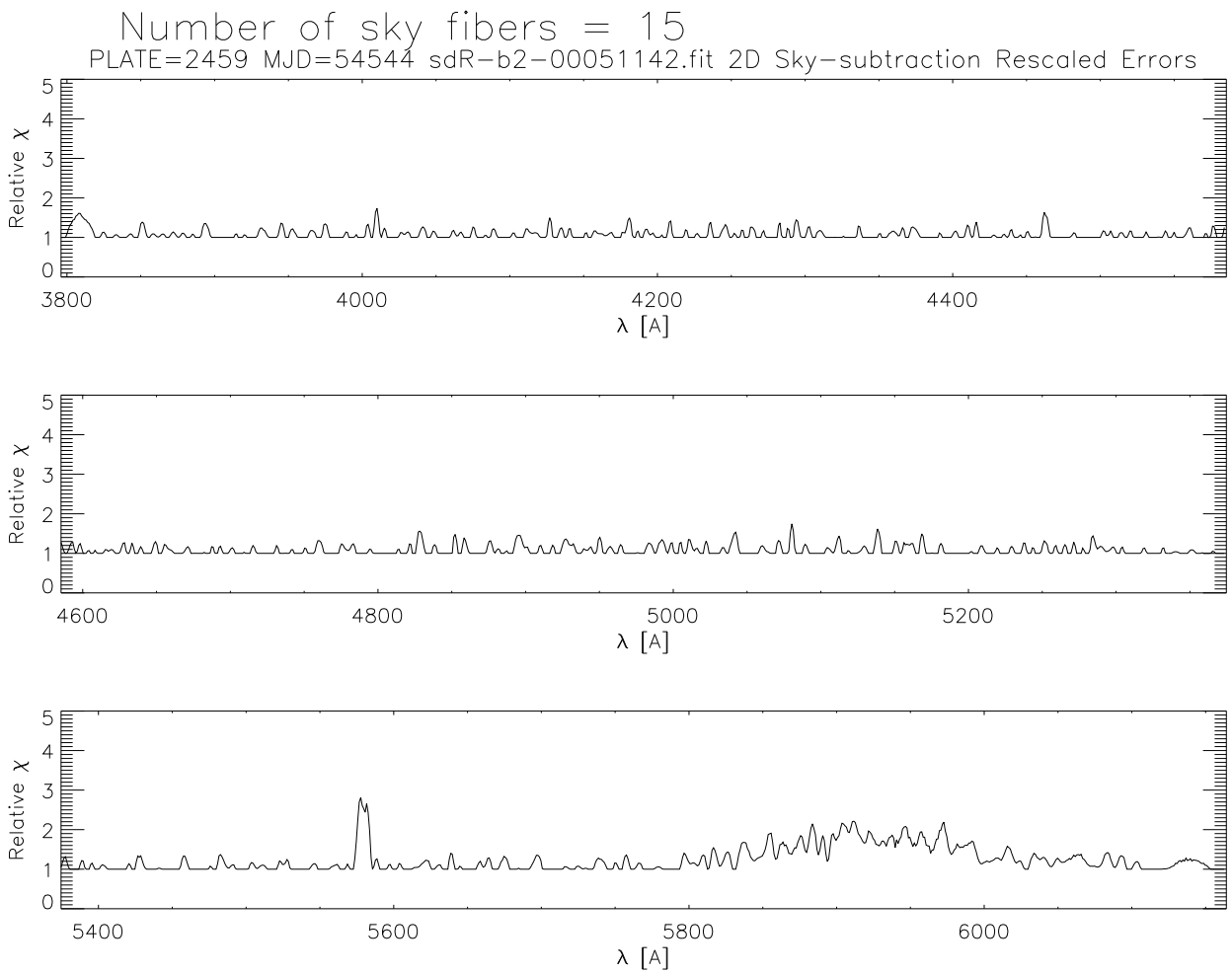

PLATE=2459 MJD=54544 sdR-b2-00051142.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2500
2000
1500
1000
500
0
−500
5570
5575
5580
5585
5590
λ [A]

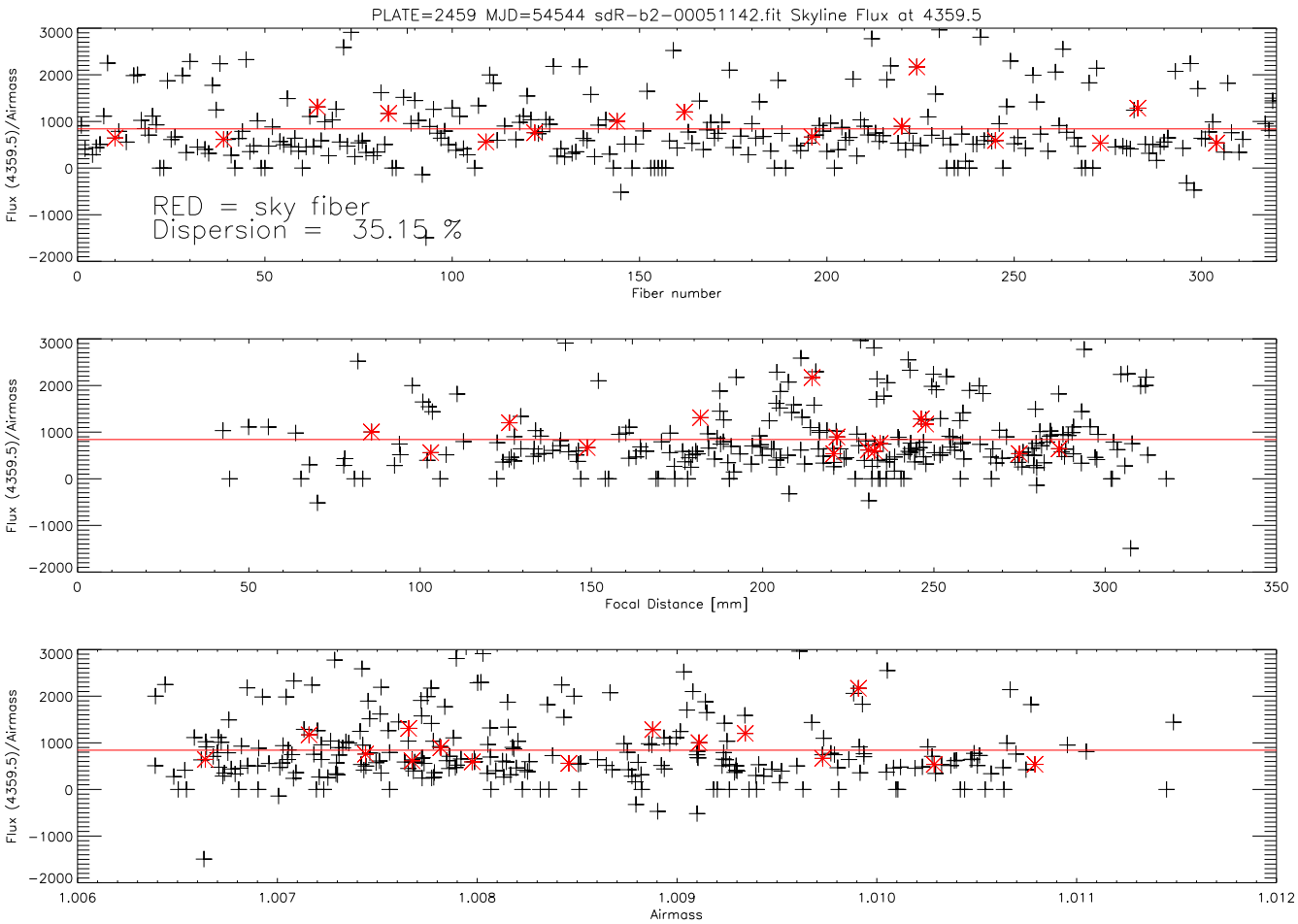

Number of sky fibers = 15
PLATE=2459 MJD=54544 sdR-b2-00051142.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

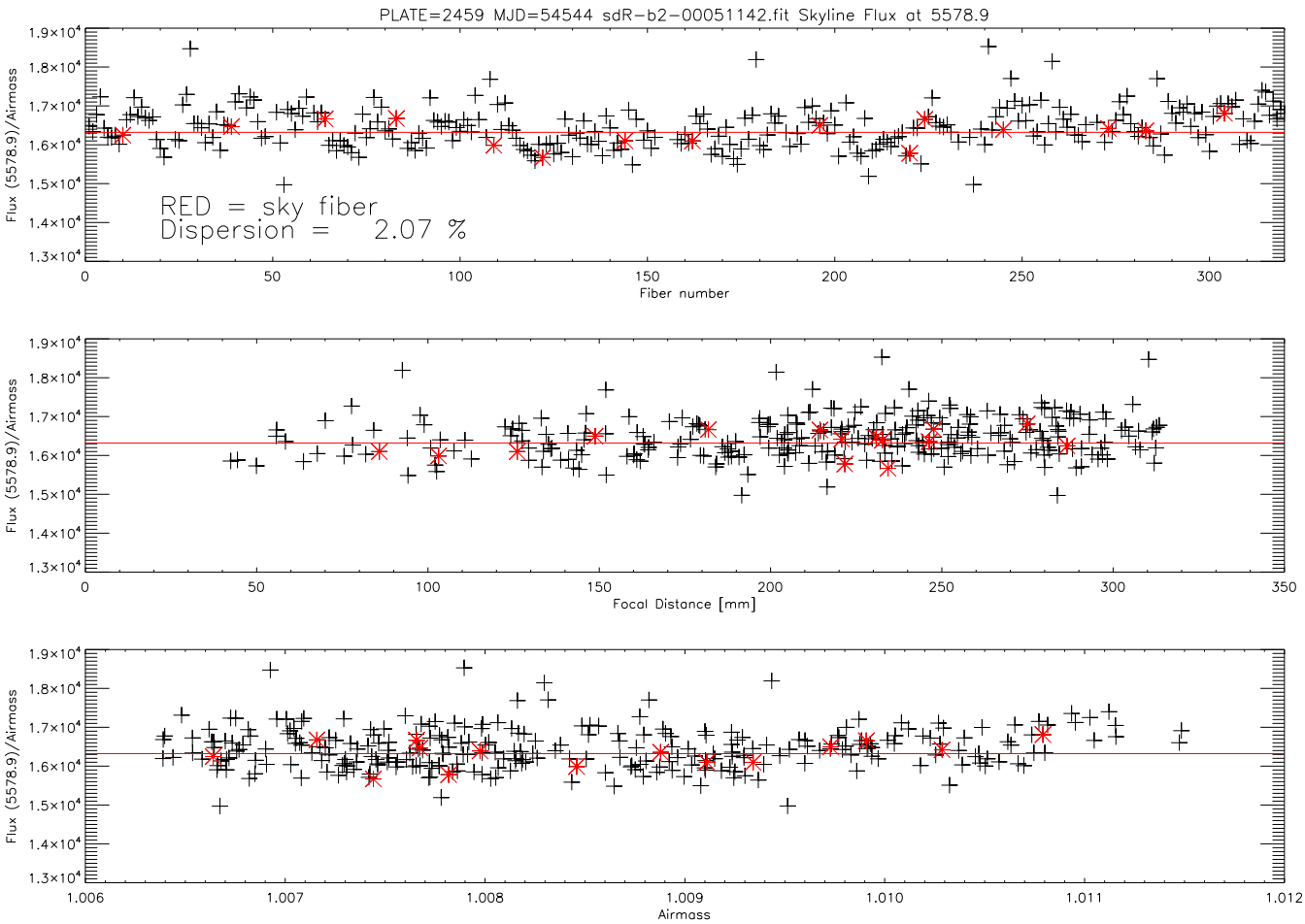

PLATE=2459 MJD=54544 sdR-b2-00051142.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

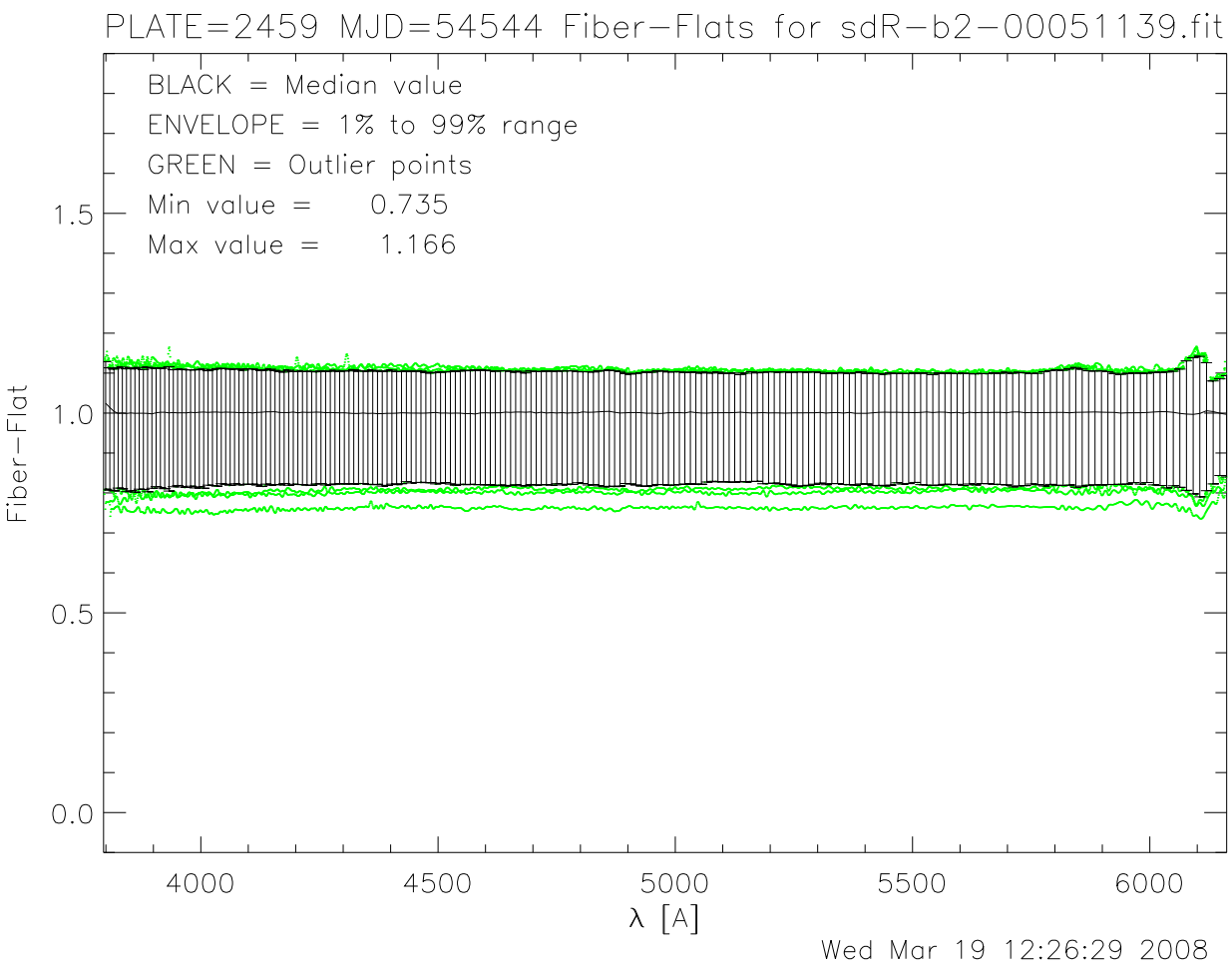

PLATE=2459 MJD=54544 sdR-b2-00051142.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

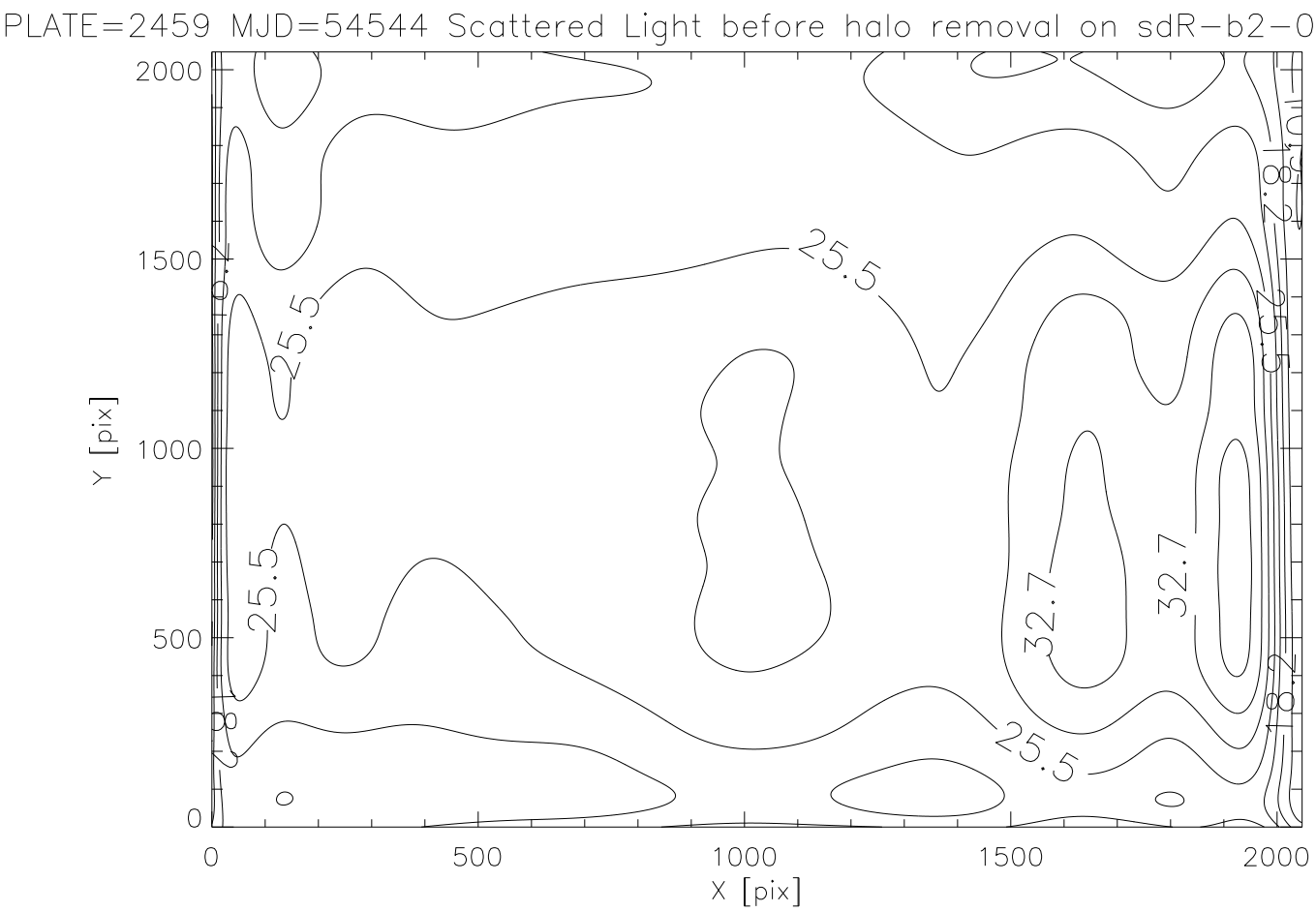

PLATE=2459 MJD=54544 sdR-b2-00051142.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2500
2000
1500
1000
500
0
-500
5570
5575
5580
5585
5590
λ [A]

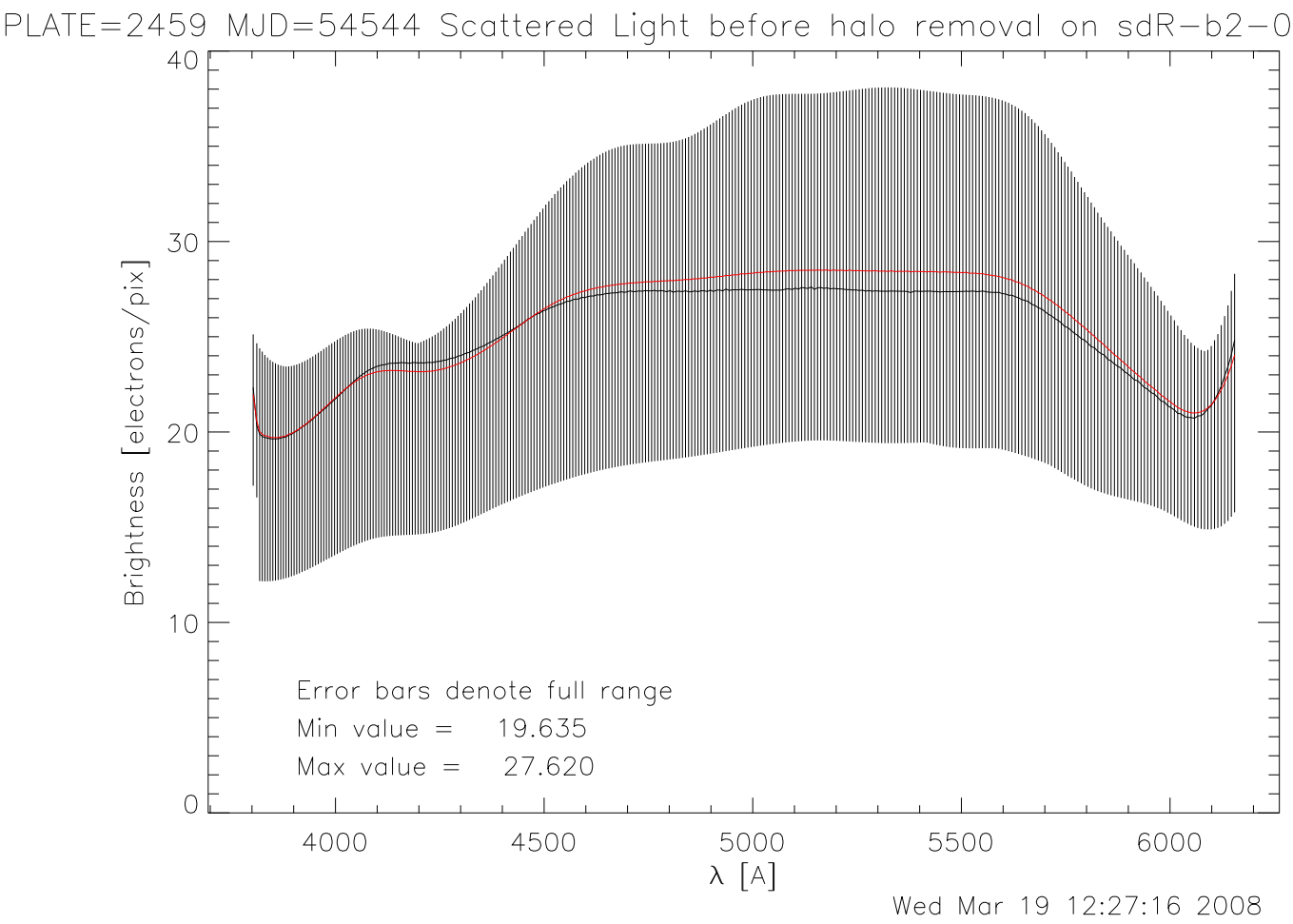

Number of sky fibers = 15
PLATE=2459 MJD=54544 sdR-b2-00051142.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

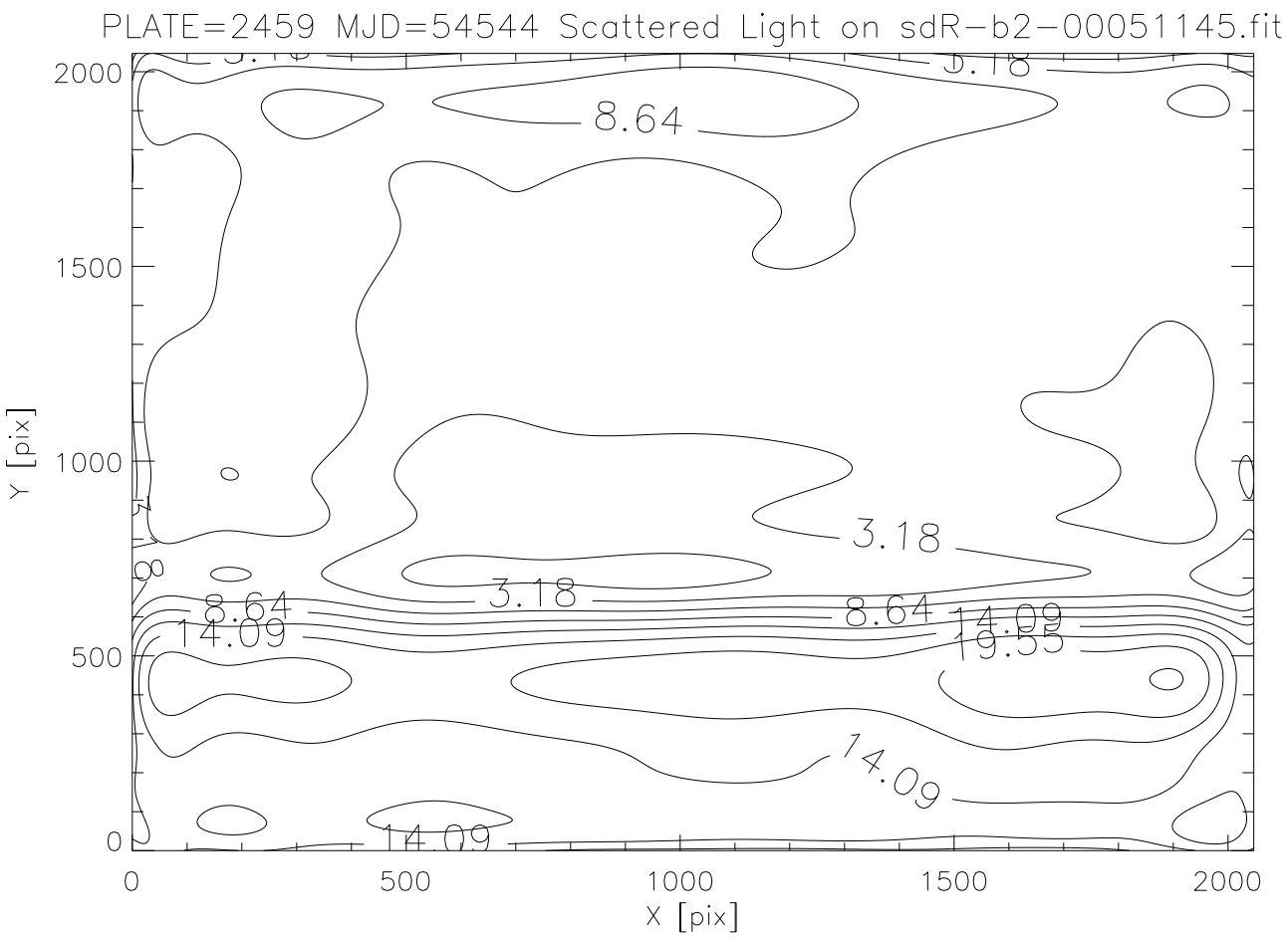

PLATE=2459 MJD=54544 sdR-b2-00051142.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 35.15 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

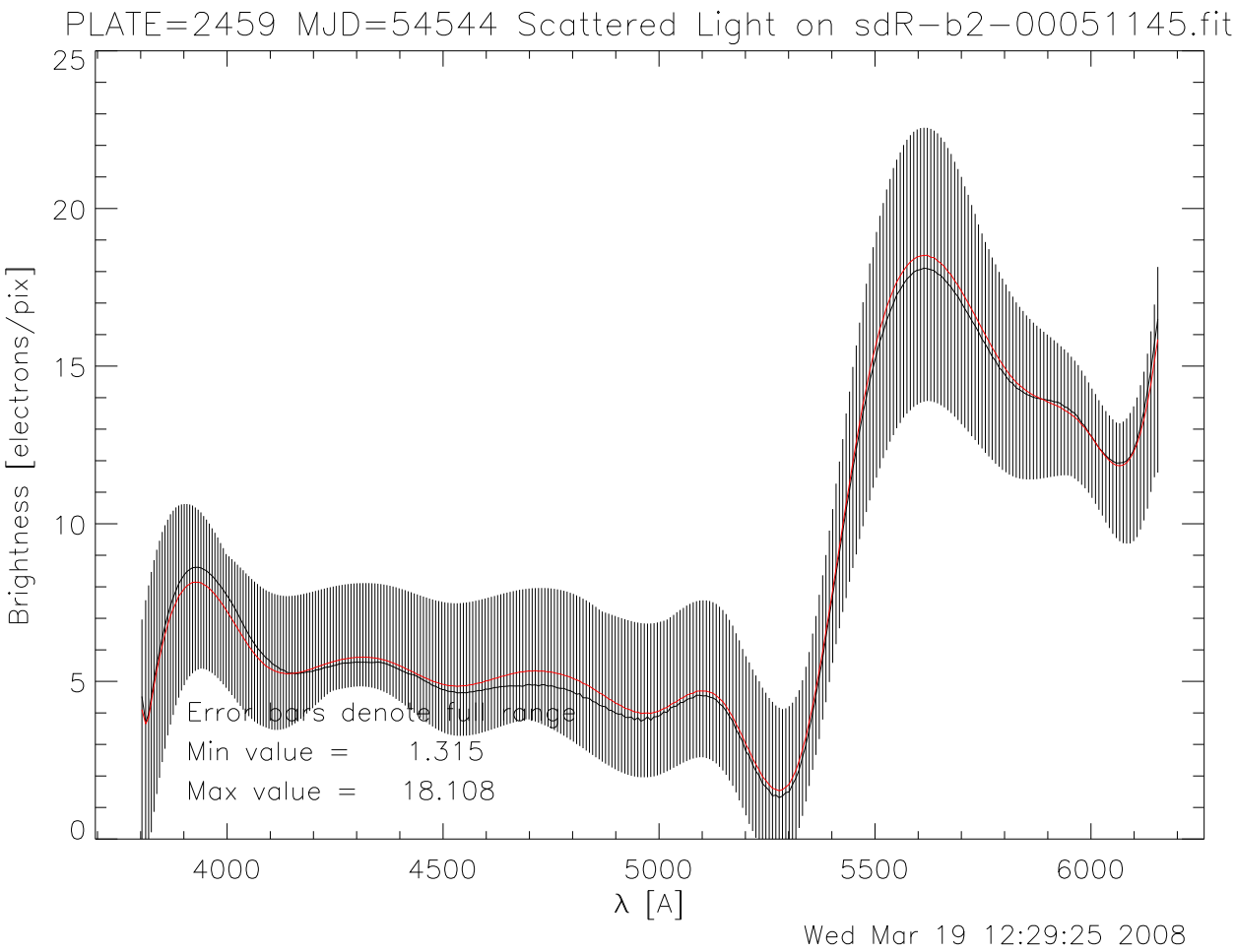

PLATE=2459 MJD=54544 sdR-b2-00051142.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.07 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

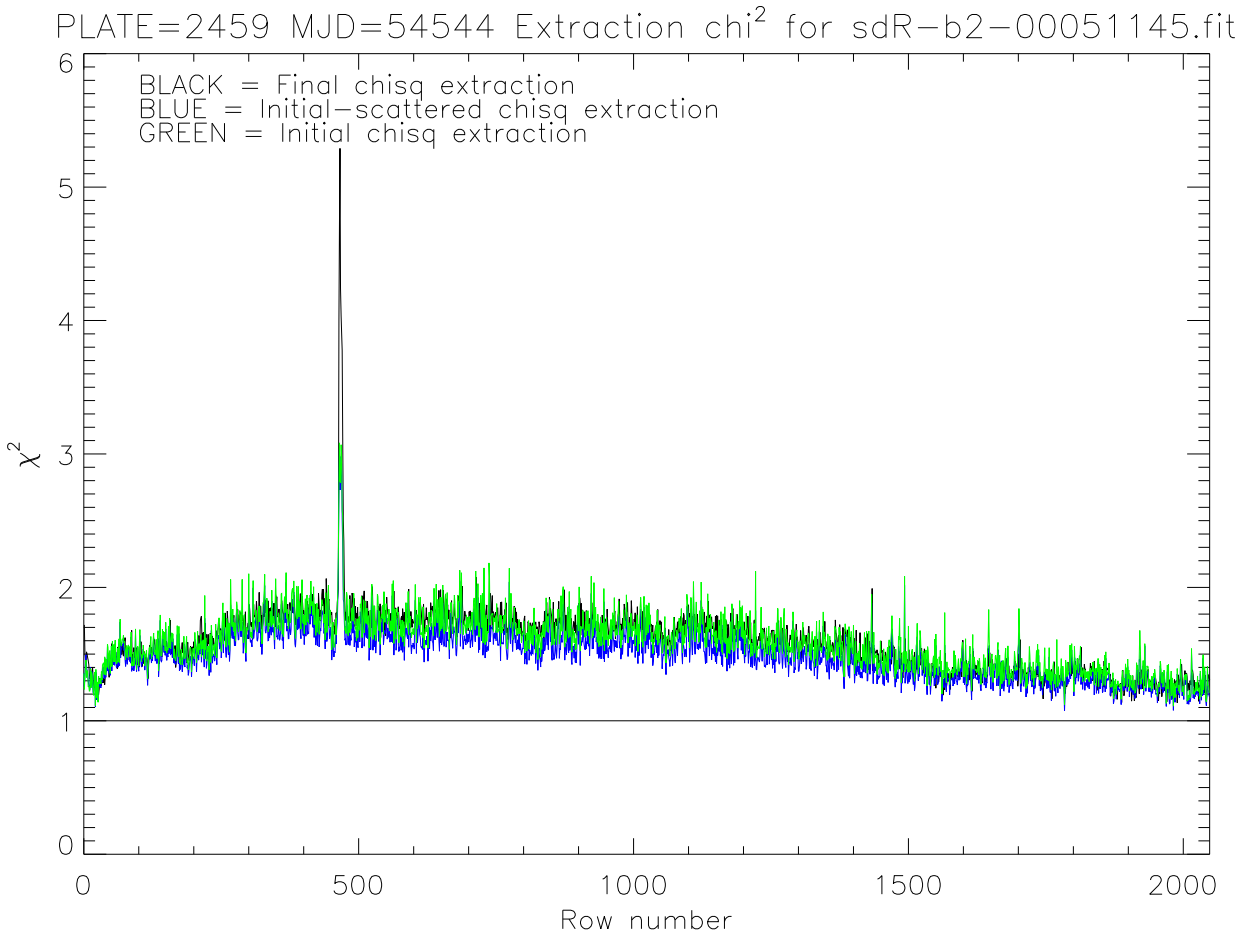

PLATE=2459 MJD=54544 Fiber-Flats for sdR-b2-00051139.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.735
Max value = 1.166
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 19 12:26:29 2008

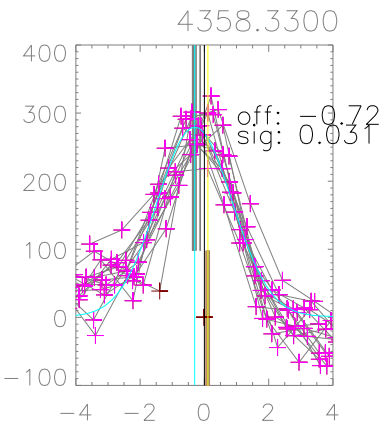

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR−b2−00051145.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
25.5
25.5
25.5
25.5
32.7
32.7
0
0
0
18.2

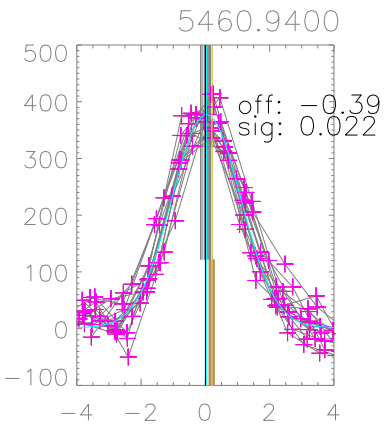

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-b2-00051145.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 19.635
Max value = 27.620
Wed Mar 19 12:27:16 2008

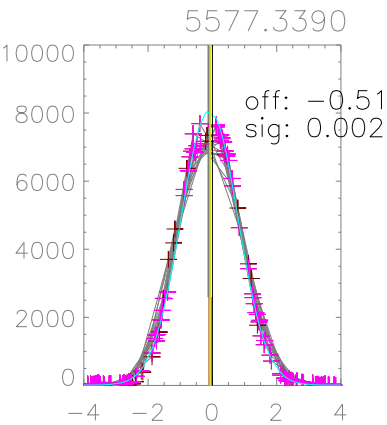

PLATE=2459 MJD=54544 Scattered Light on sdR-b2-00051145.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
3.18
8.64
14.09
19.55

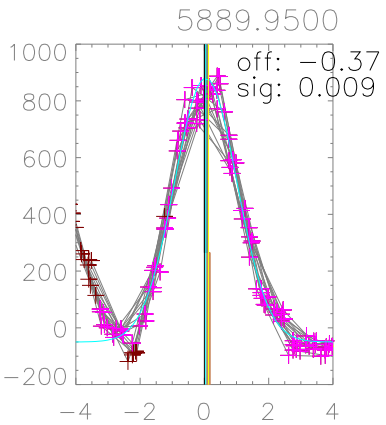

PLATE=2459 MJD=54544 Scattered Light on sdR-b2-00051145.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 1.315
Max value = 18.108
Wed Mar 19 12:29:25 2008

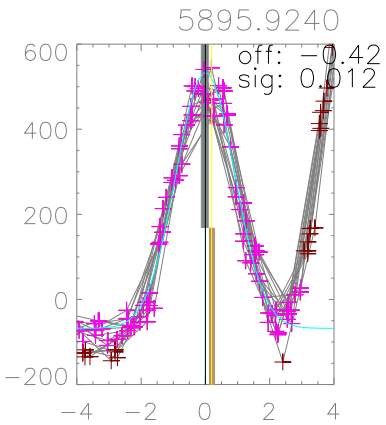

PLATE=2459 MJD=54544 Extraction chi^2 for sdR−b2−00051145.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

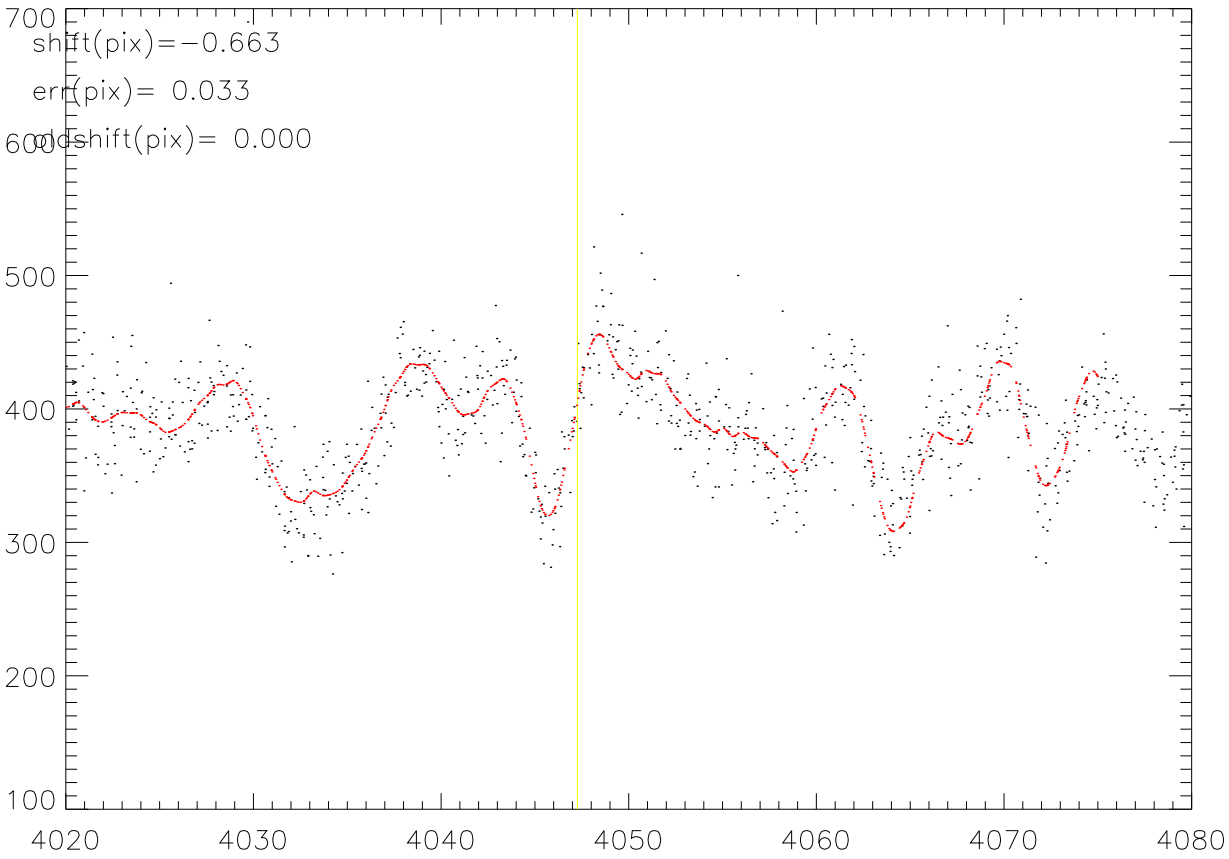

4358.3300
off: −0.72
sig: 0.031

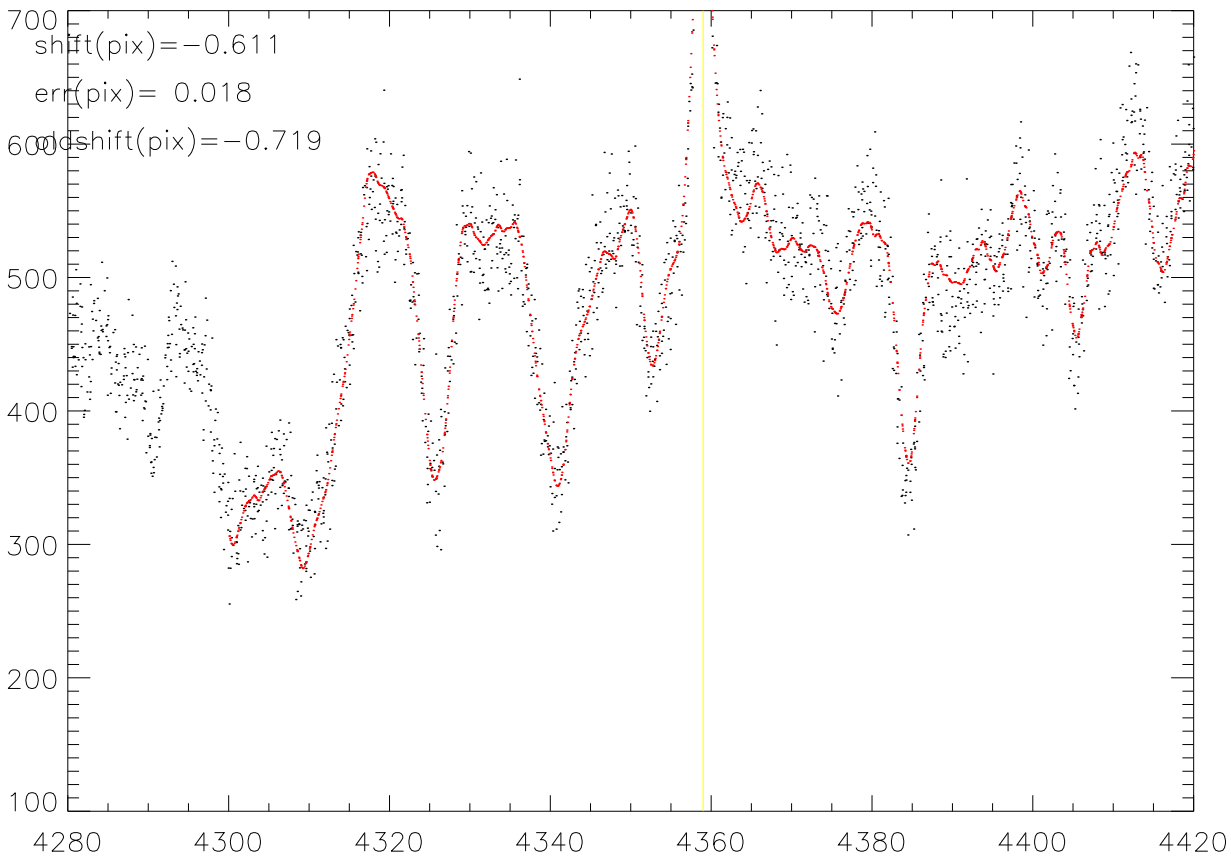

5460.9400
off: −0.39
sig: 0.022

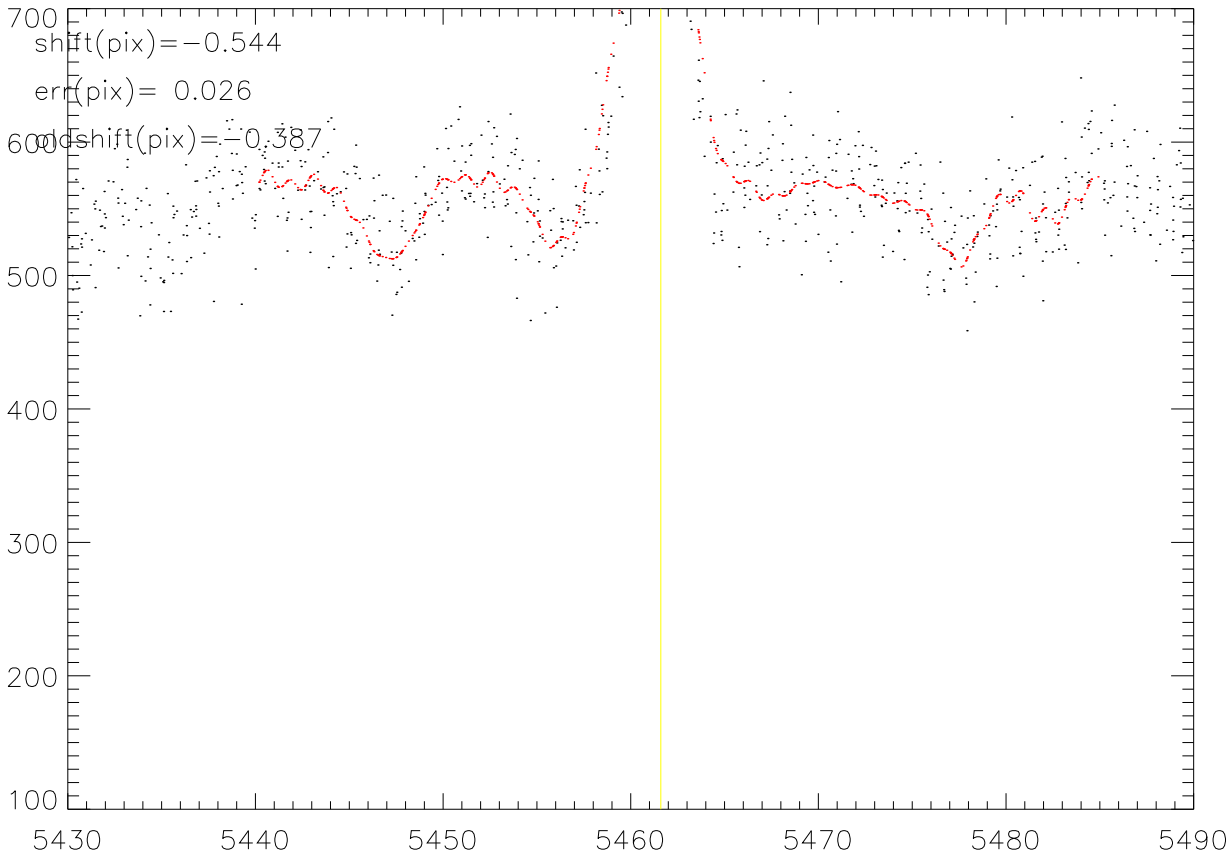

5577.3390
off: −0.51
sig: 0.002

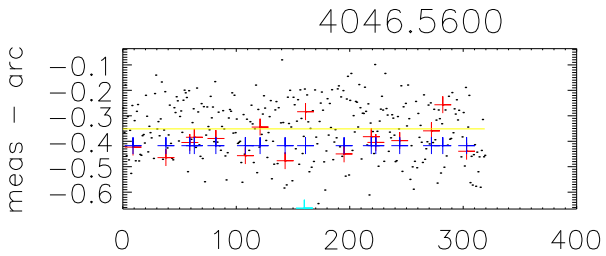

5889.9500
off: −0.37
sig: 0.009

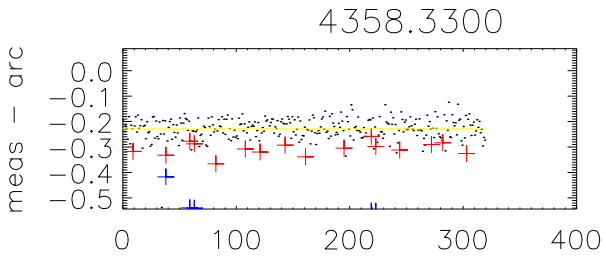

5895.9240
off: −0.42
sig: 0.012

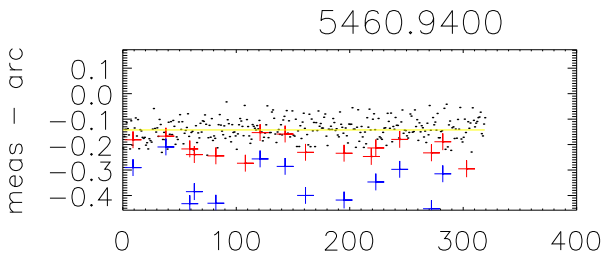

shift(pix)=−0.663
err(pix)= 0.033
oldshift(pix)= 0.000
700
600
500
400
300
200
100
4020
4030
4040
4050
4060
4070
4080

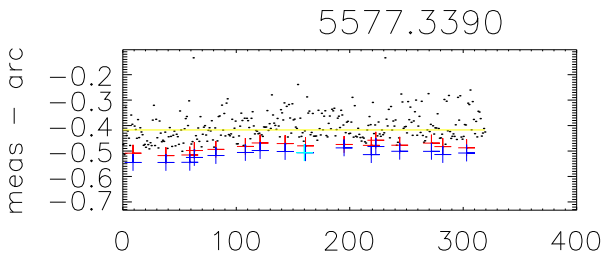

shift(pix)=−0.611
err(pix)= 0.018
oldshift(pix)=−0.719
700
600
500
400
300
200
100
4280
4300
4320
4340
4360
4380
4400
4420

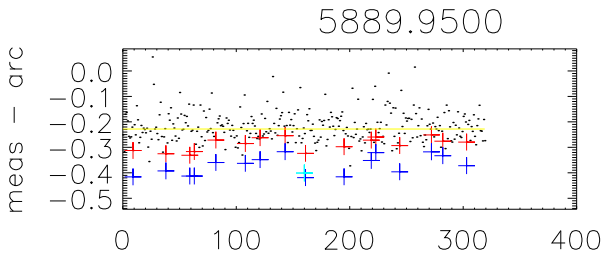

shift(pix)=−0.544
err(pix)= 0.026
oldshift(pix)=−0.387
700
600
500
400
300
200
100
5430
5440
5450
5460
5470
5480
5490

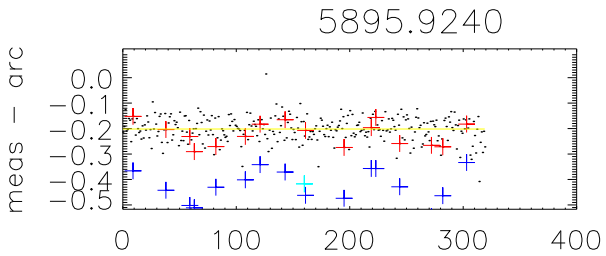

4046.5600
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

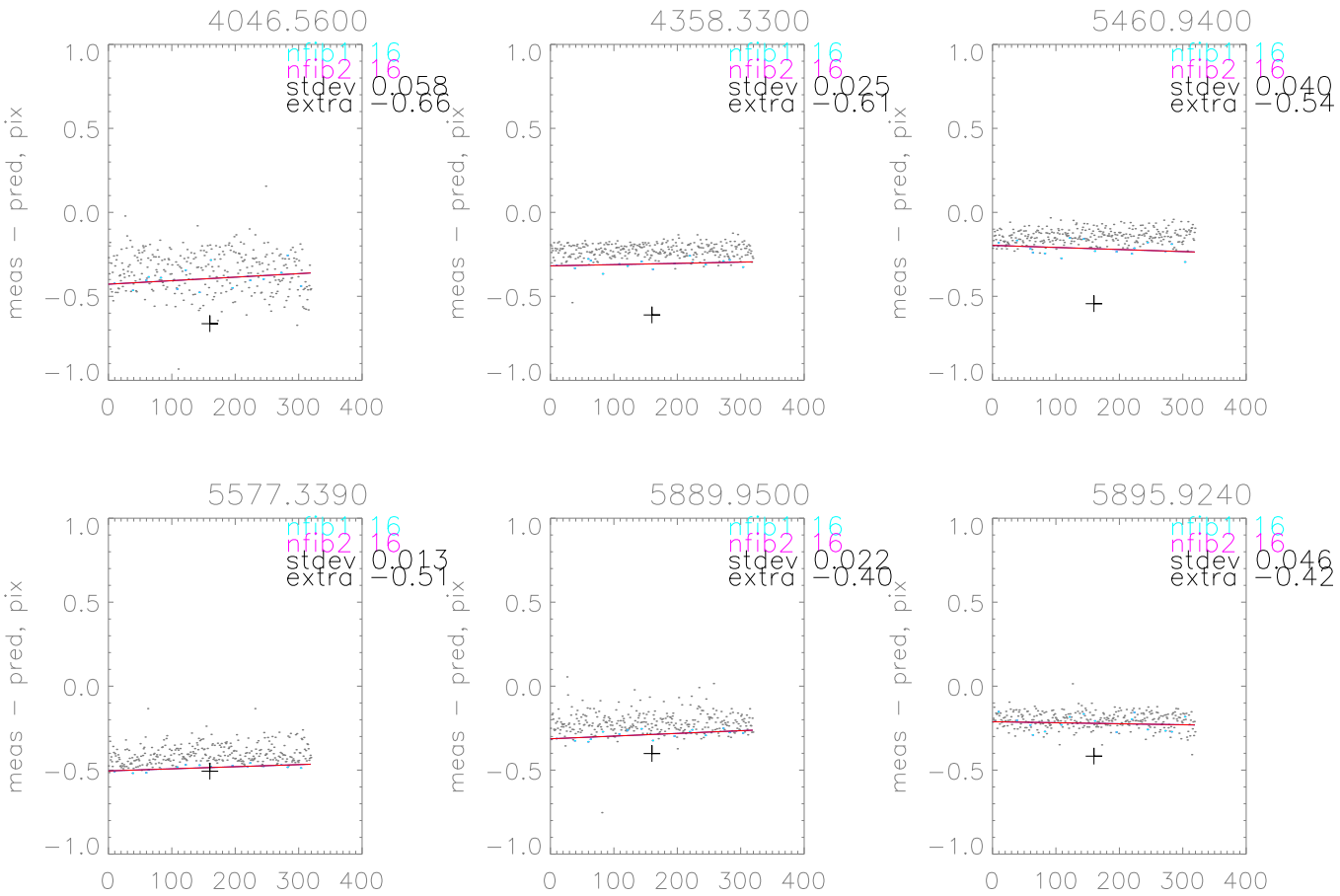

4358.3300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

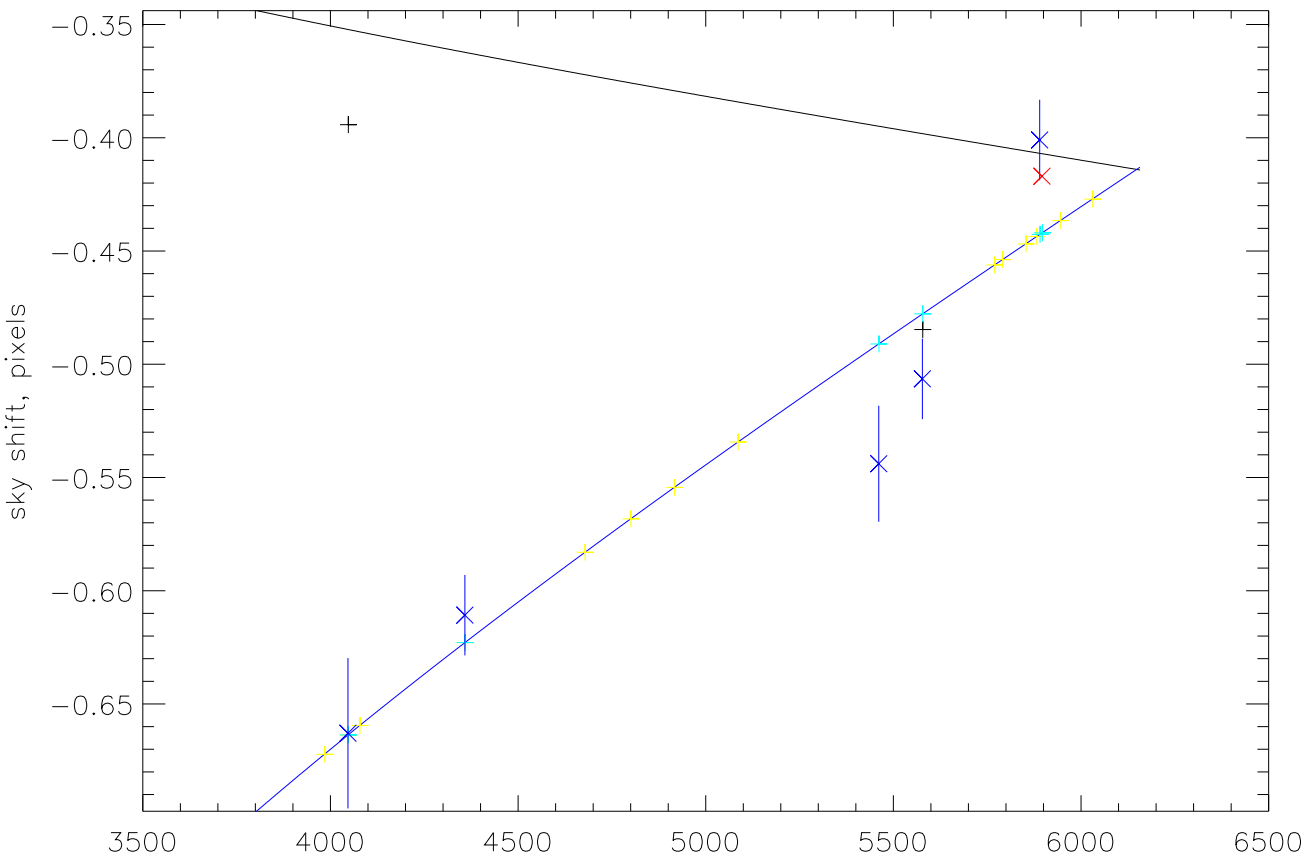

5460.9400
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

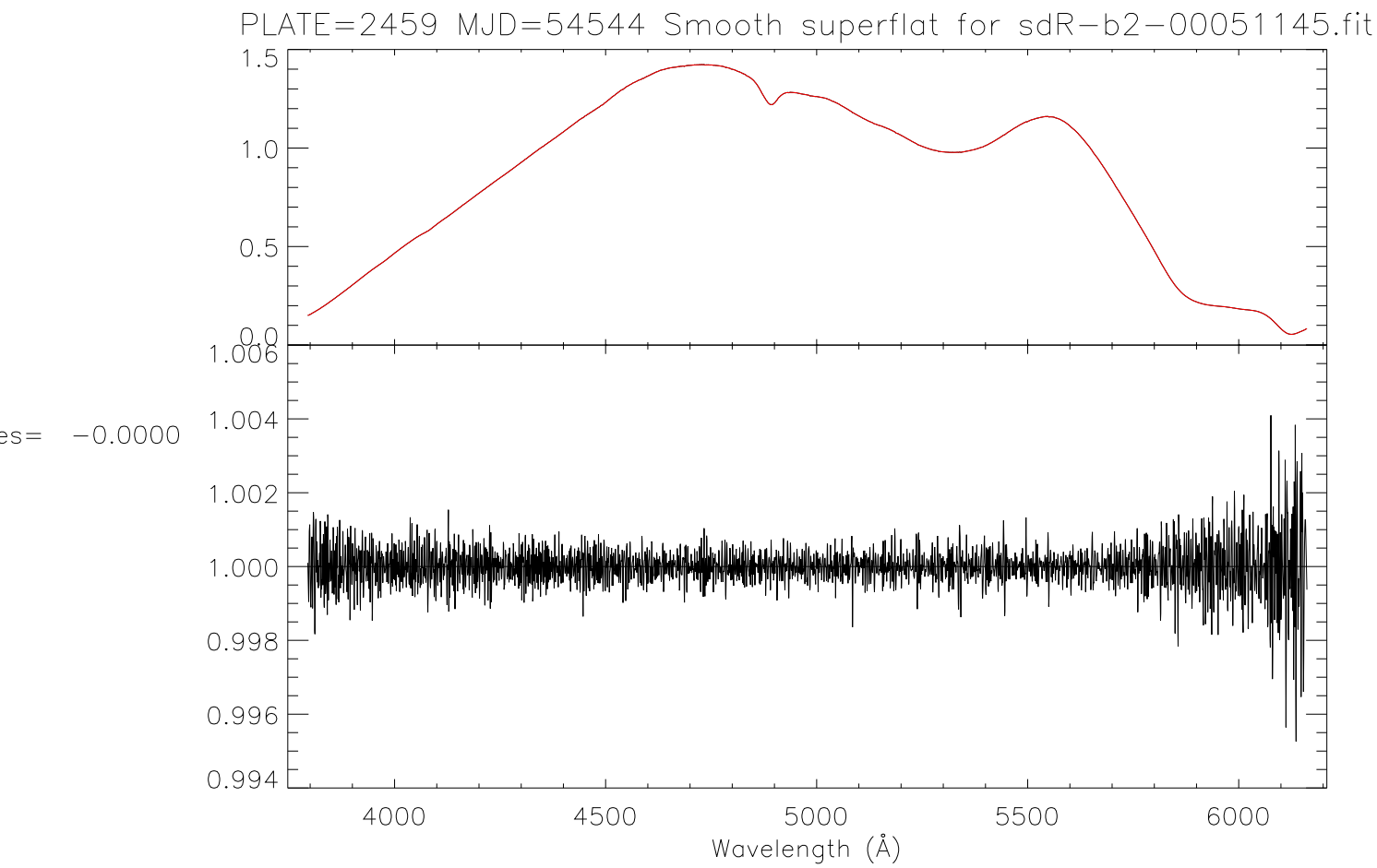

5577.3390
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400


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

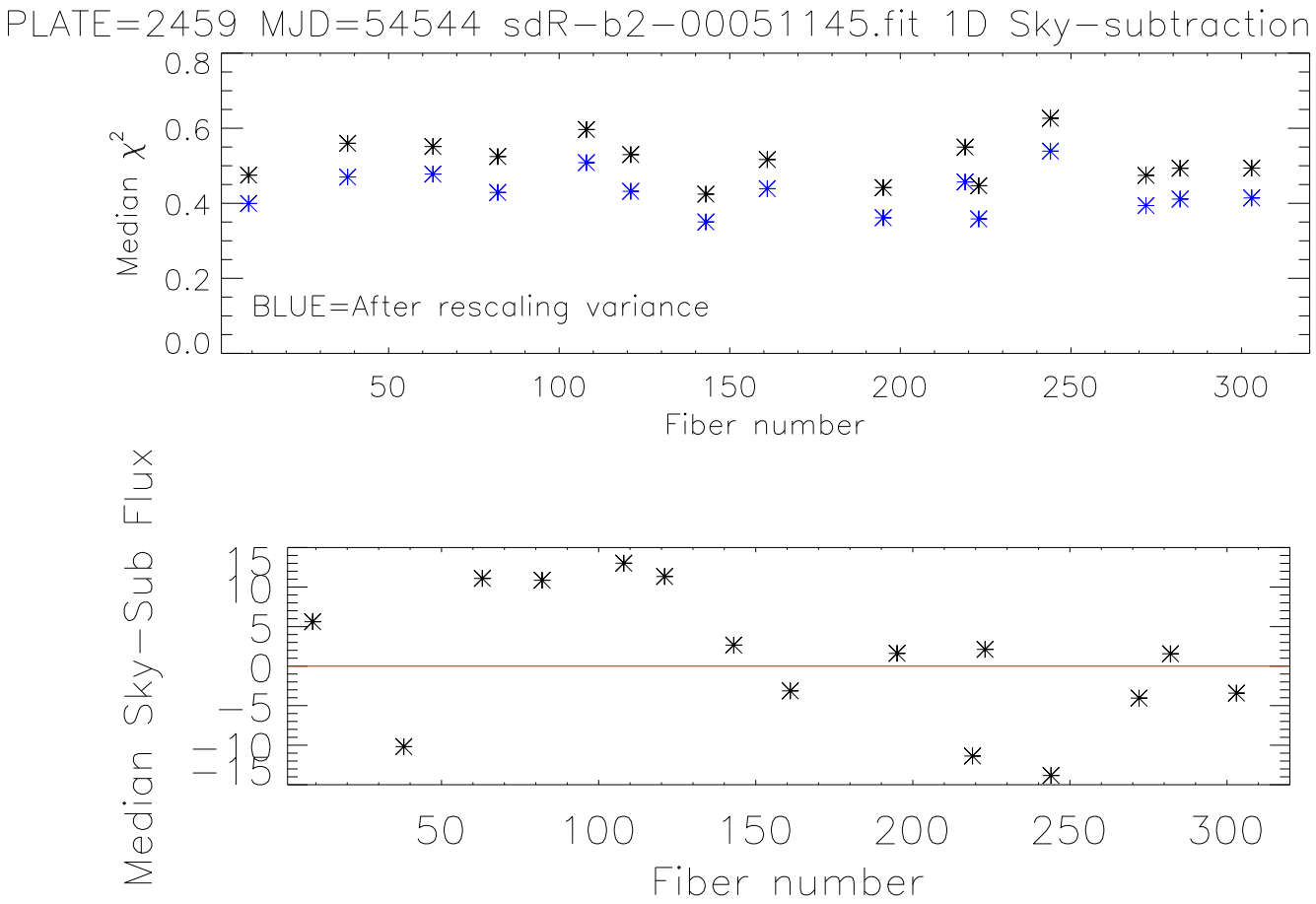

5895.9240
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400


4046.5600
nfib1 16
nfib2 16
stdev 0.058
extra −0.66
4358.3300
nfib1 16
nfib2 16
stdev 0.025
extra −0.61
5460.9400
nfib1 16
nfib2 16
stdev 0.040
extra −0.54
5577.3390
nfib1 16
nfib2 16
stdev 0.013
extra −0.51
5889.9500
nfib1 16
nfib2 16
stdev 0.022
extra −0.40
5895.9240
nfib1 16
nfib2 16
stdev 0.046
extra −0.42
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

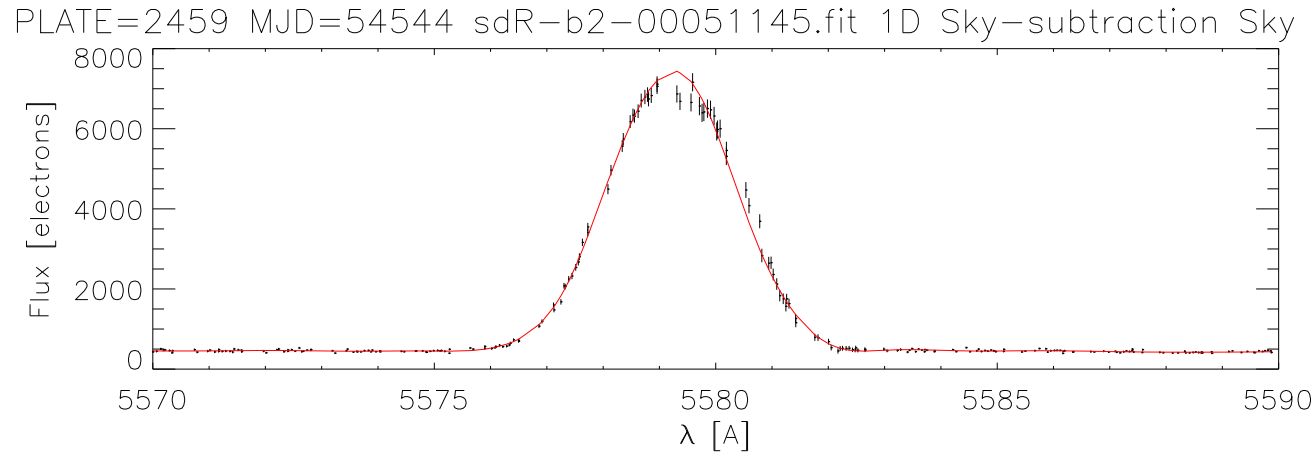

−0.35
−0.40
−0.45
−0.50
−0.55
−0.60
−0.65
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

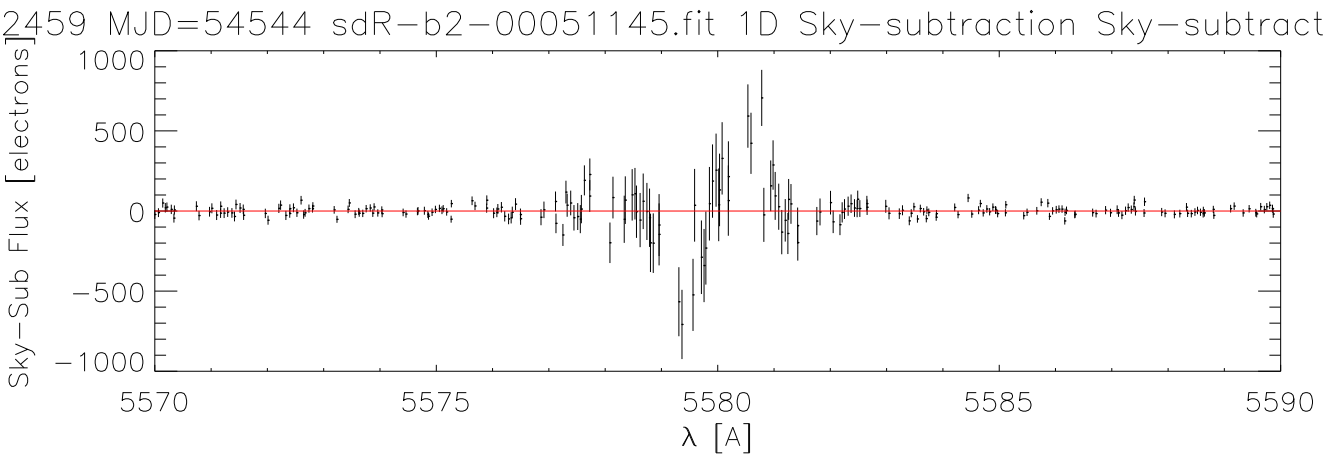

PLATE=2459 MJD=54544 Smooth superflat for sdR-b2-00051145.fit
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
4000
4500
5000
5500
6000
Wavelength (Å)

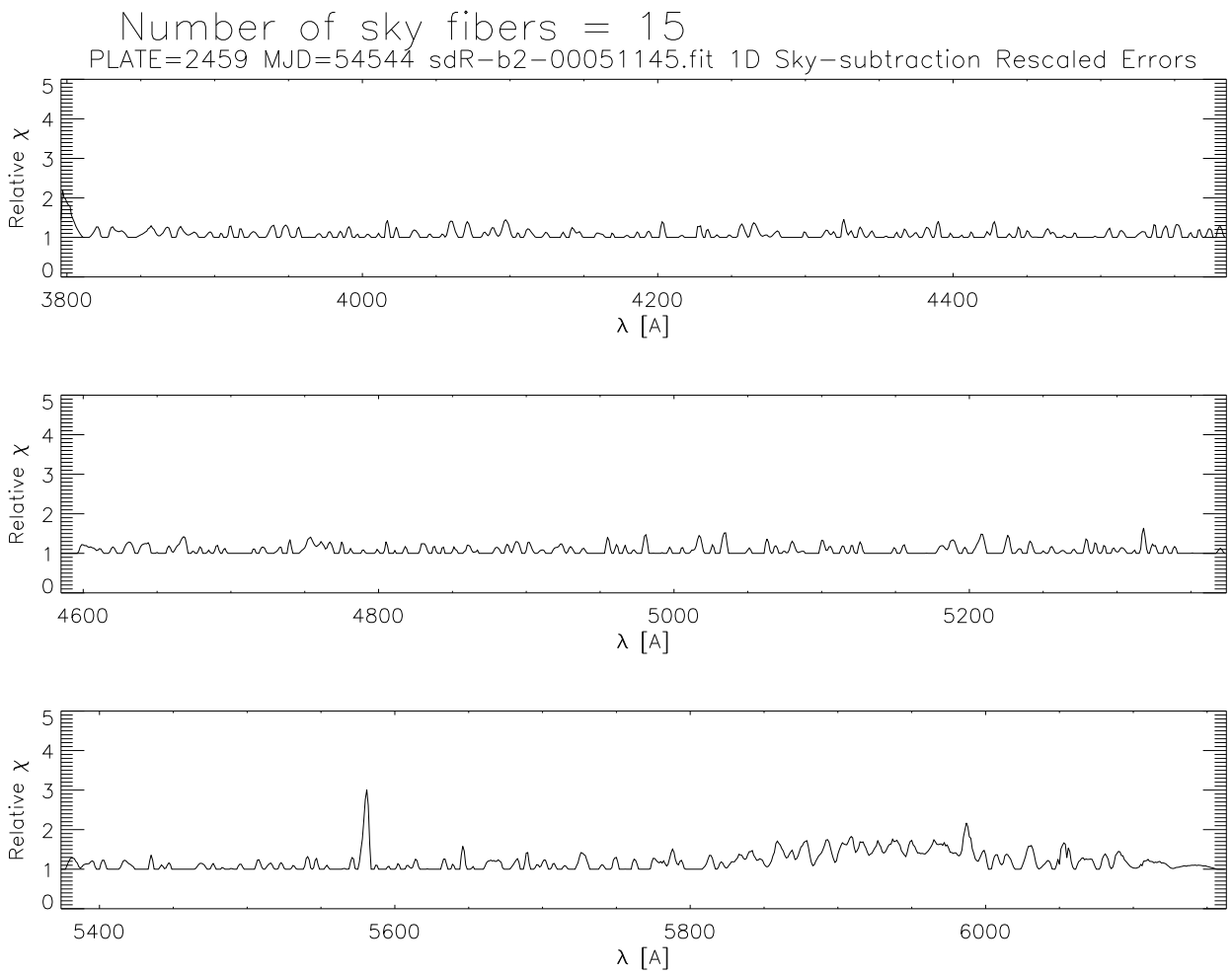
es= −0.0000

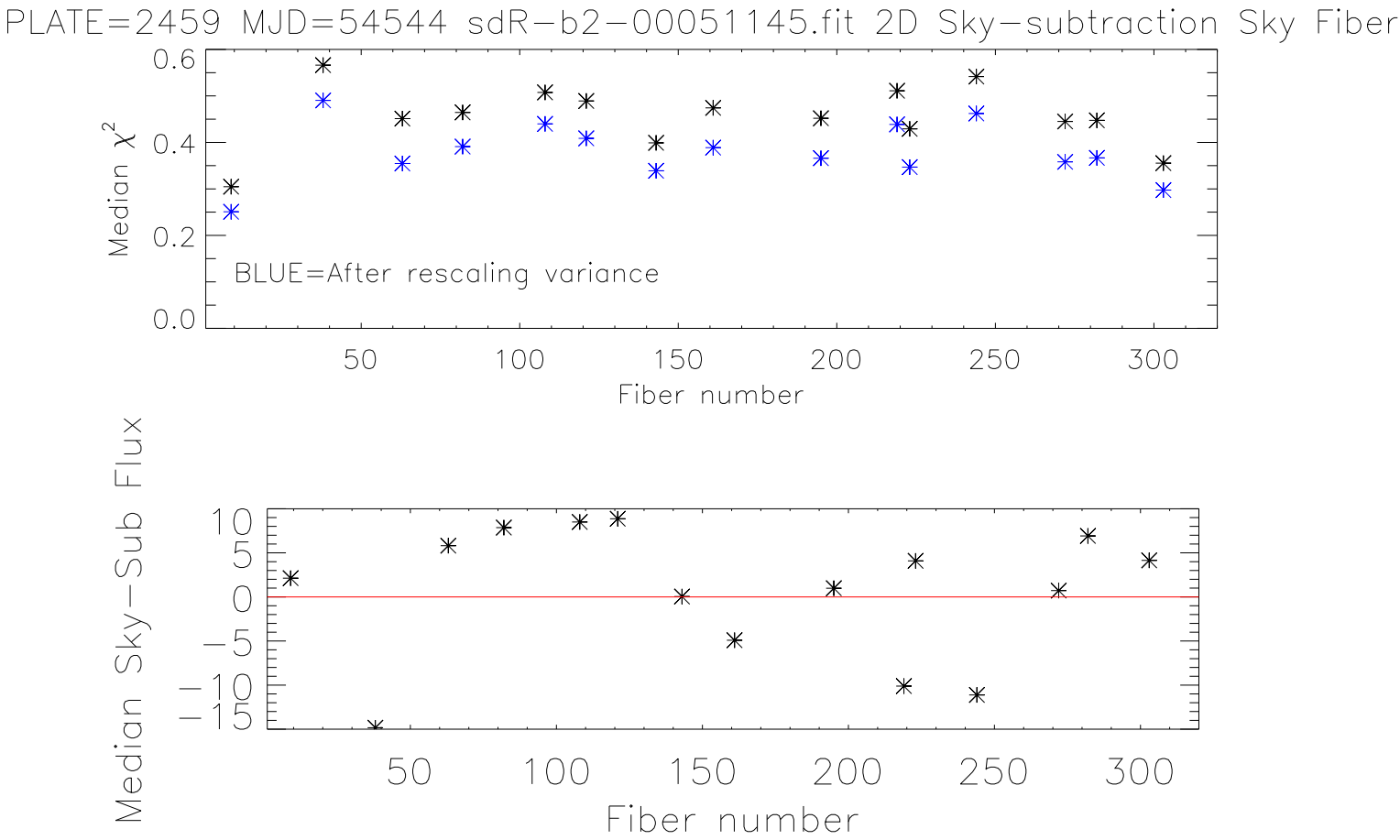

PLATE=2459 MJD=54544 sdR-b2-00051145.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

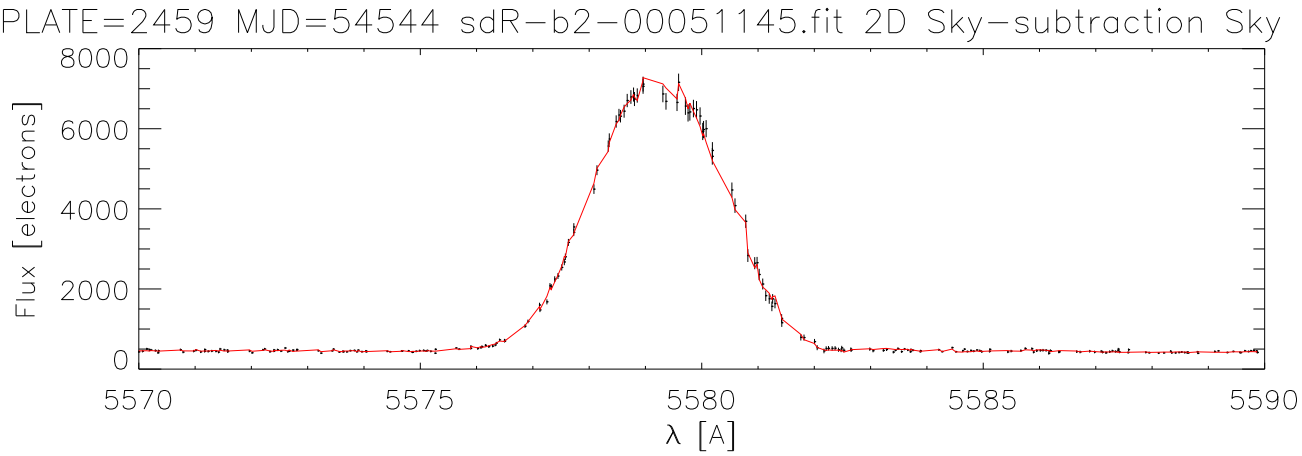
Median Sky-Sub Flux
15
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

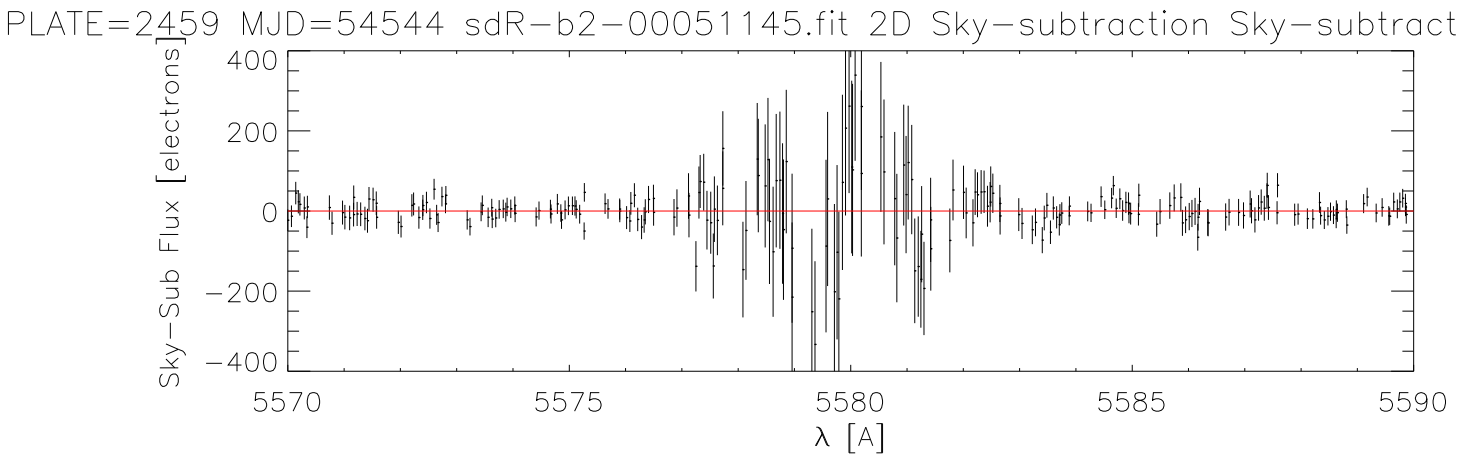

PLATE=2459 MJD=54544 sdR-b2-00051145.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

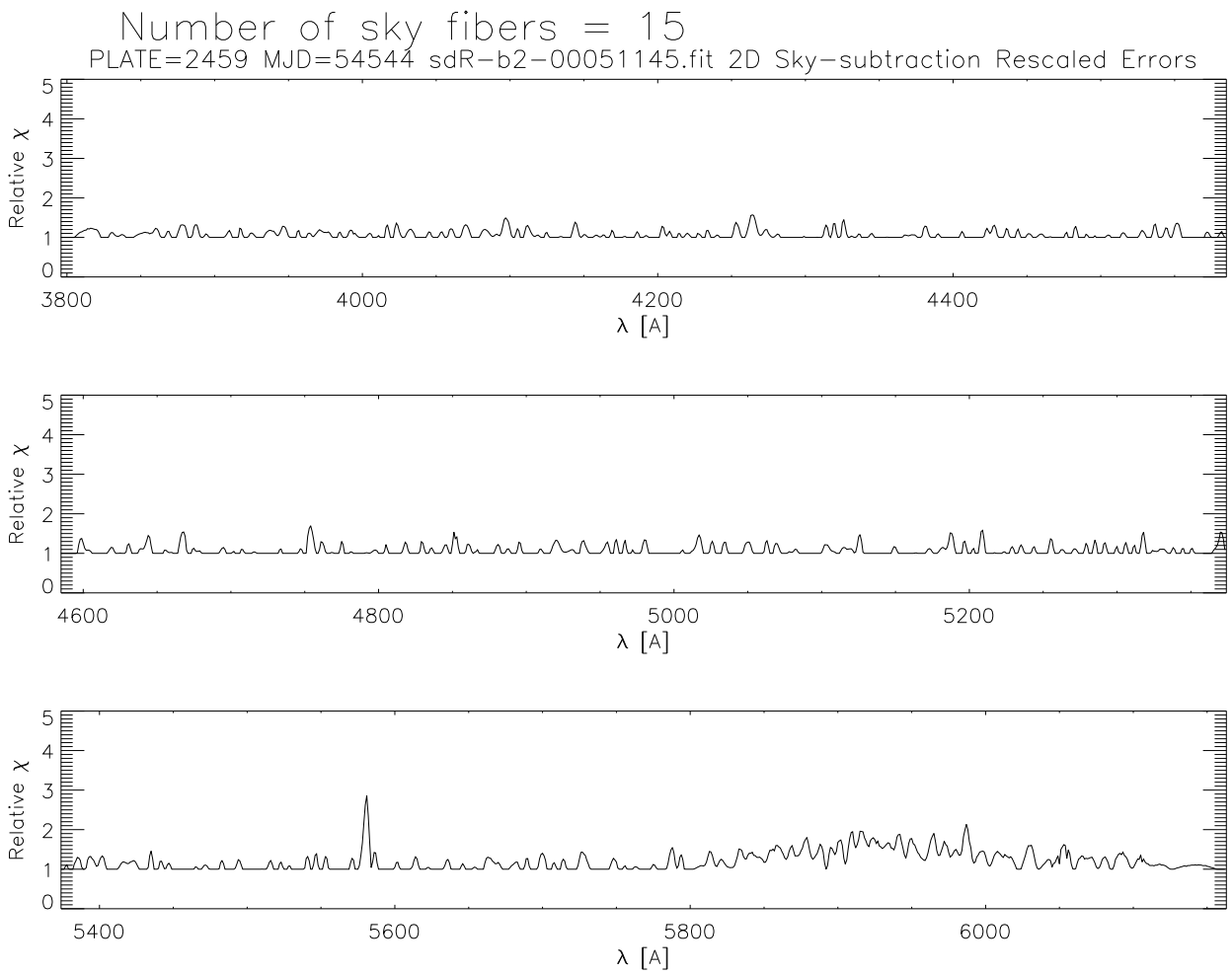

PLATE=2459 MJD=54544 sdR-b2-00051145.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
500
0
-500
-1000
5570
5575
5580
5585
5590
λ [A]

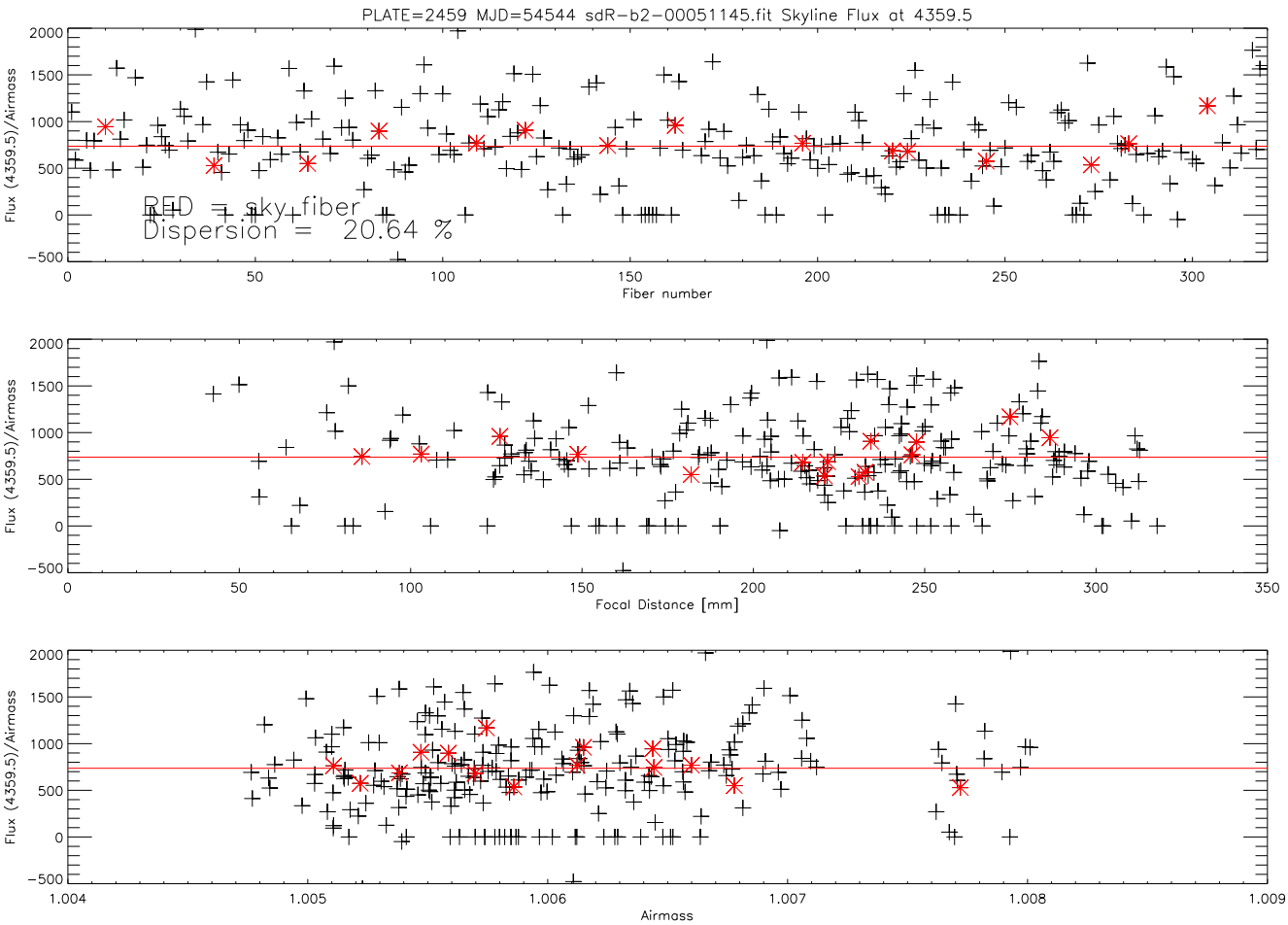

Number of sky fibers = 15
PLATE=2459 MJD=54544 sdR-b2-00051145.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

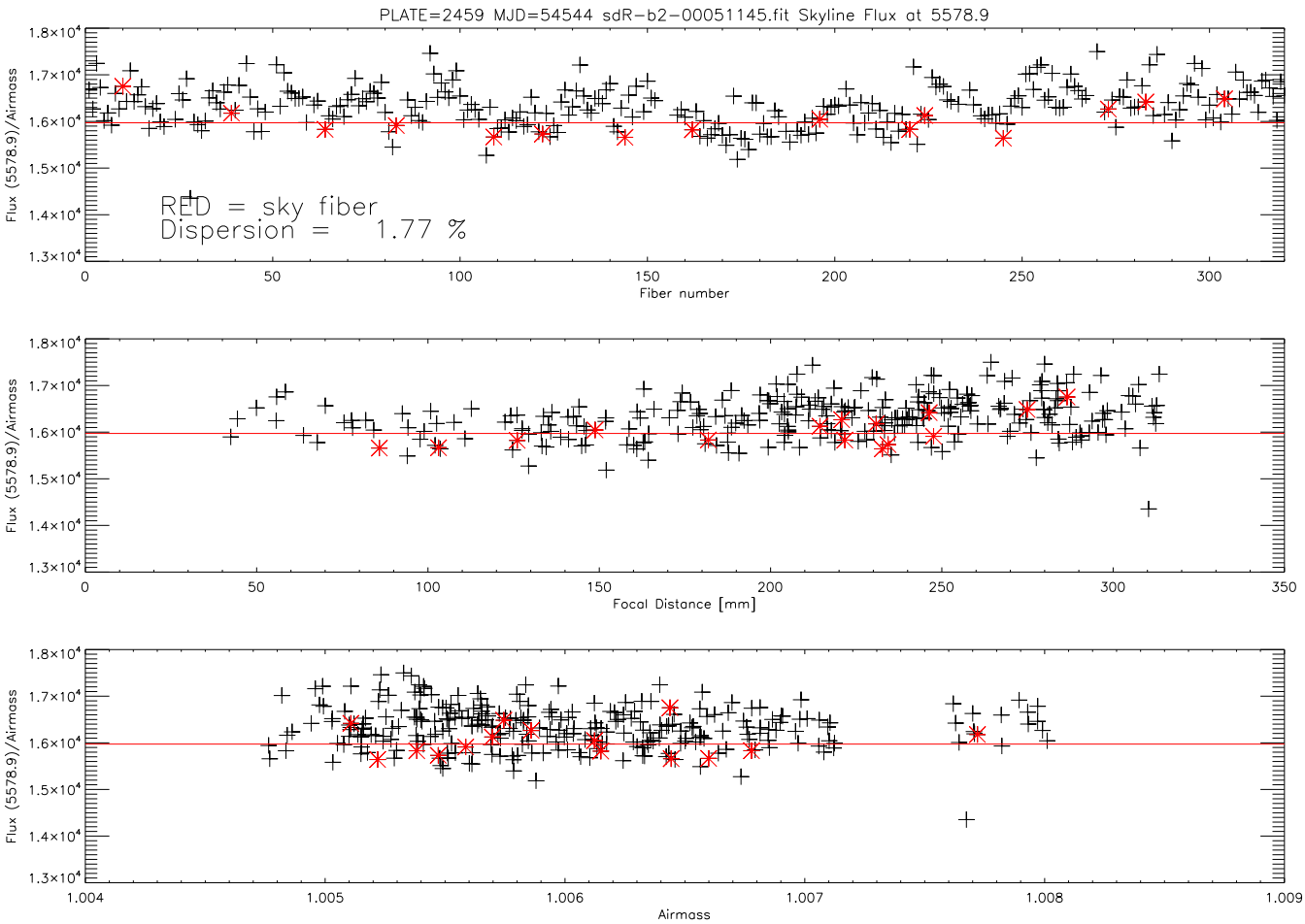

PLATE=2459 MJD=54544 sdR-b2-00051145.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

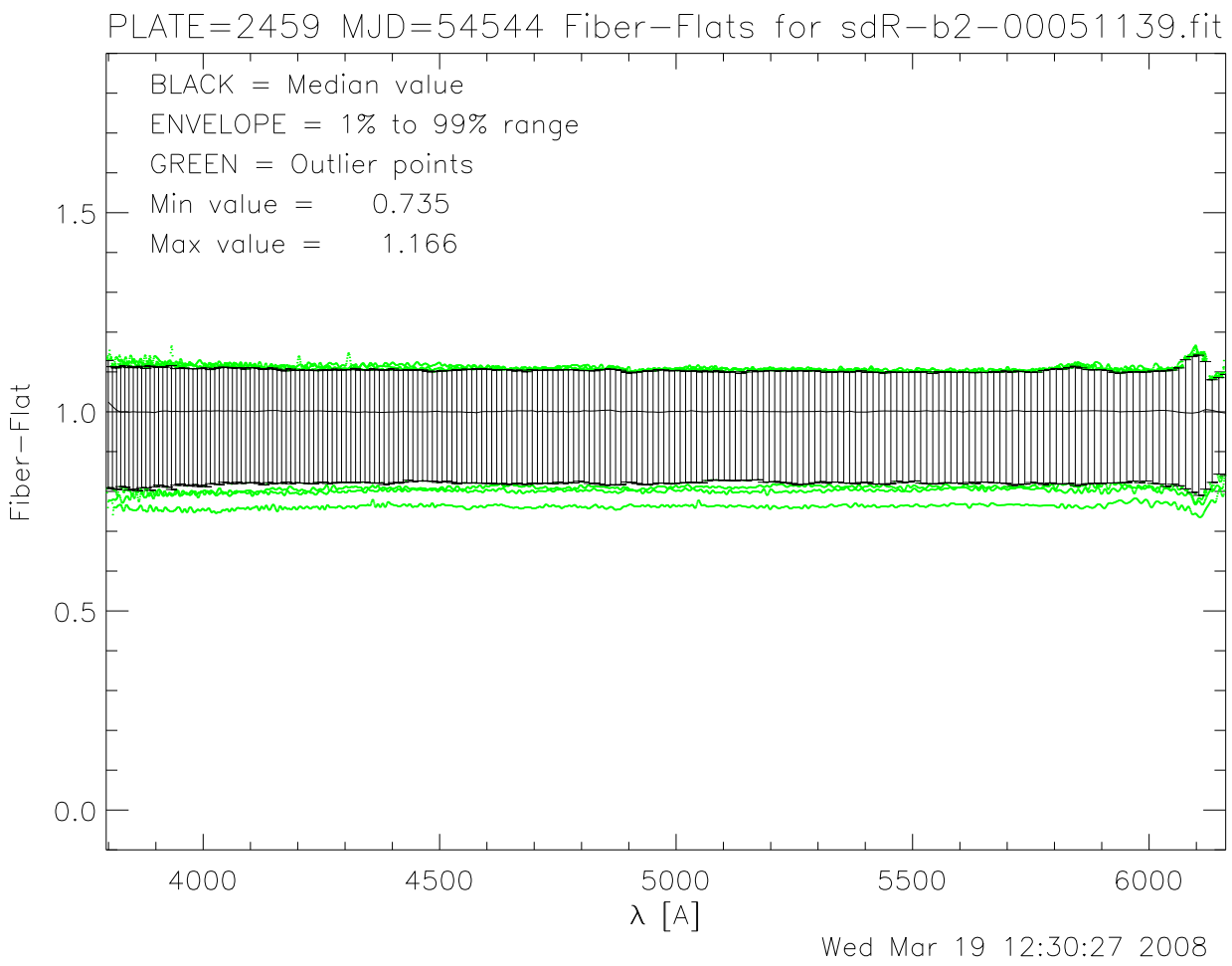

PLATE=2459 MJD=54544 sdR-b2-00051145.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

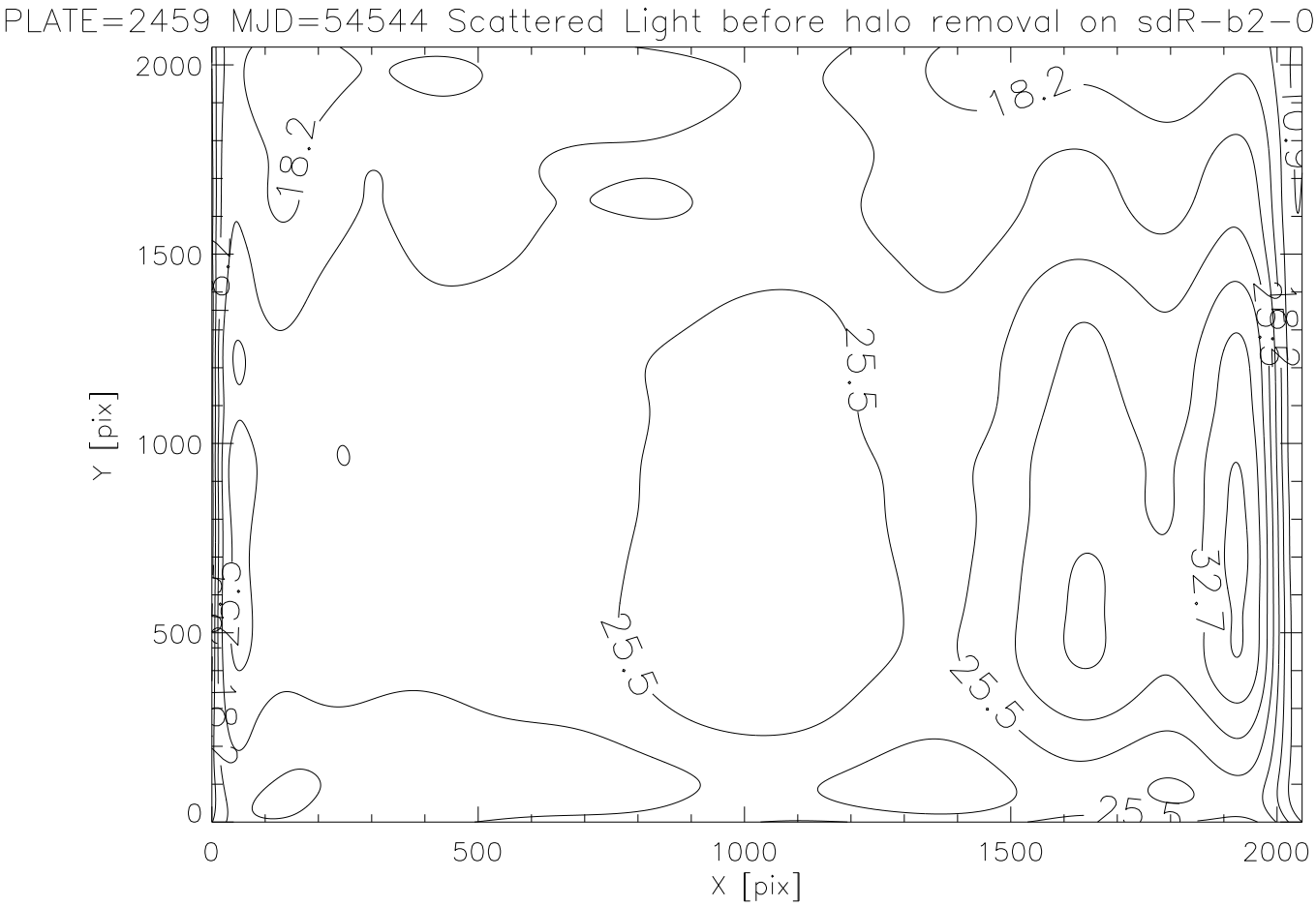

PLATE=2459 MJD=54544 sdR-b2-00051145.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

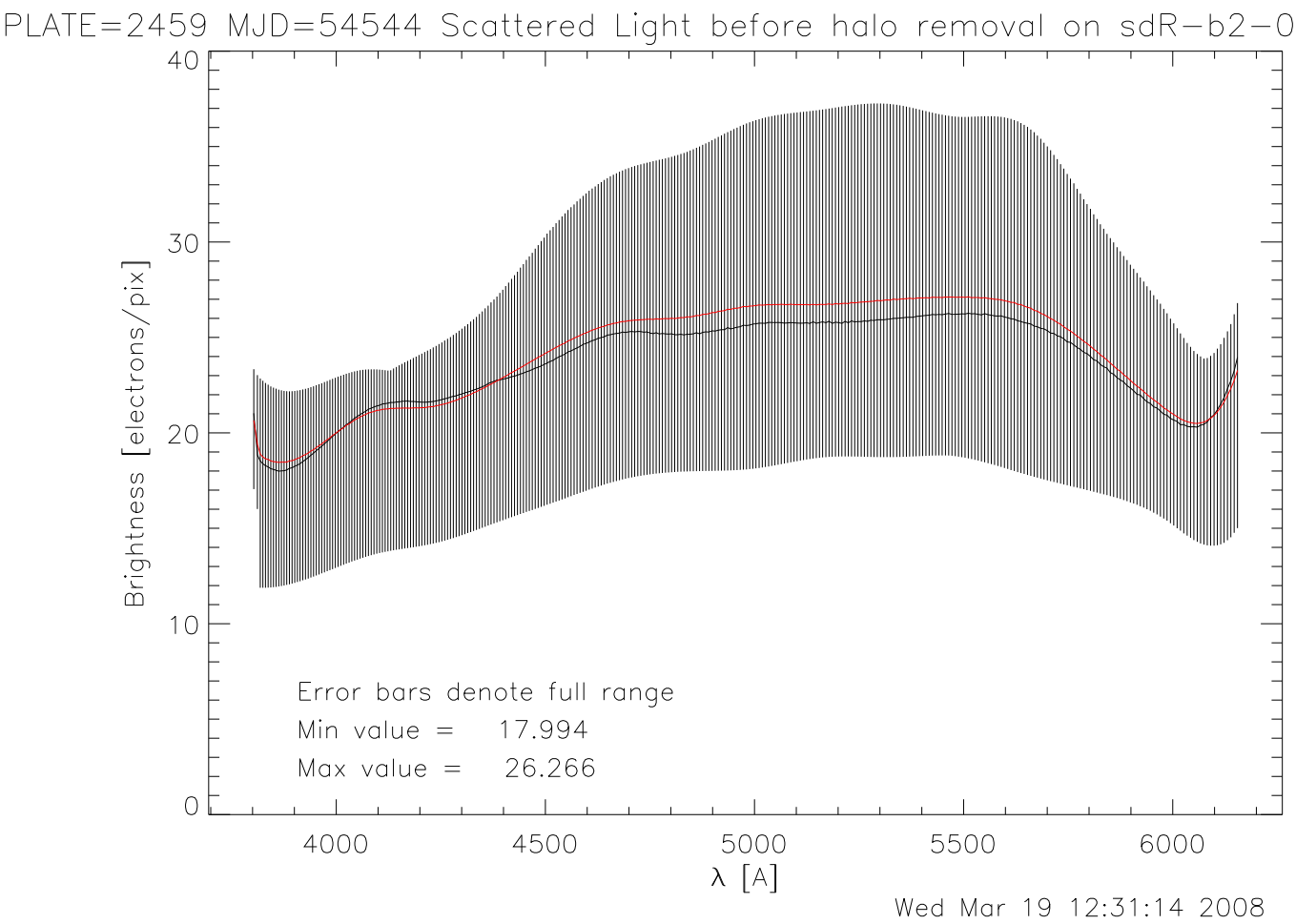

Number of sky fibers = 15
PLATE=2459 MJD=54544 sdR-b2-00051145.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

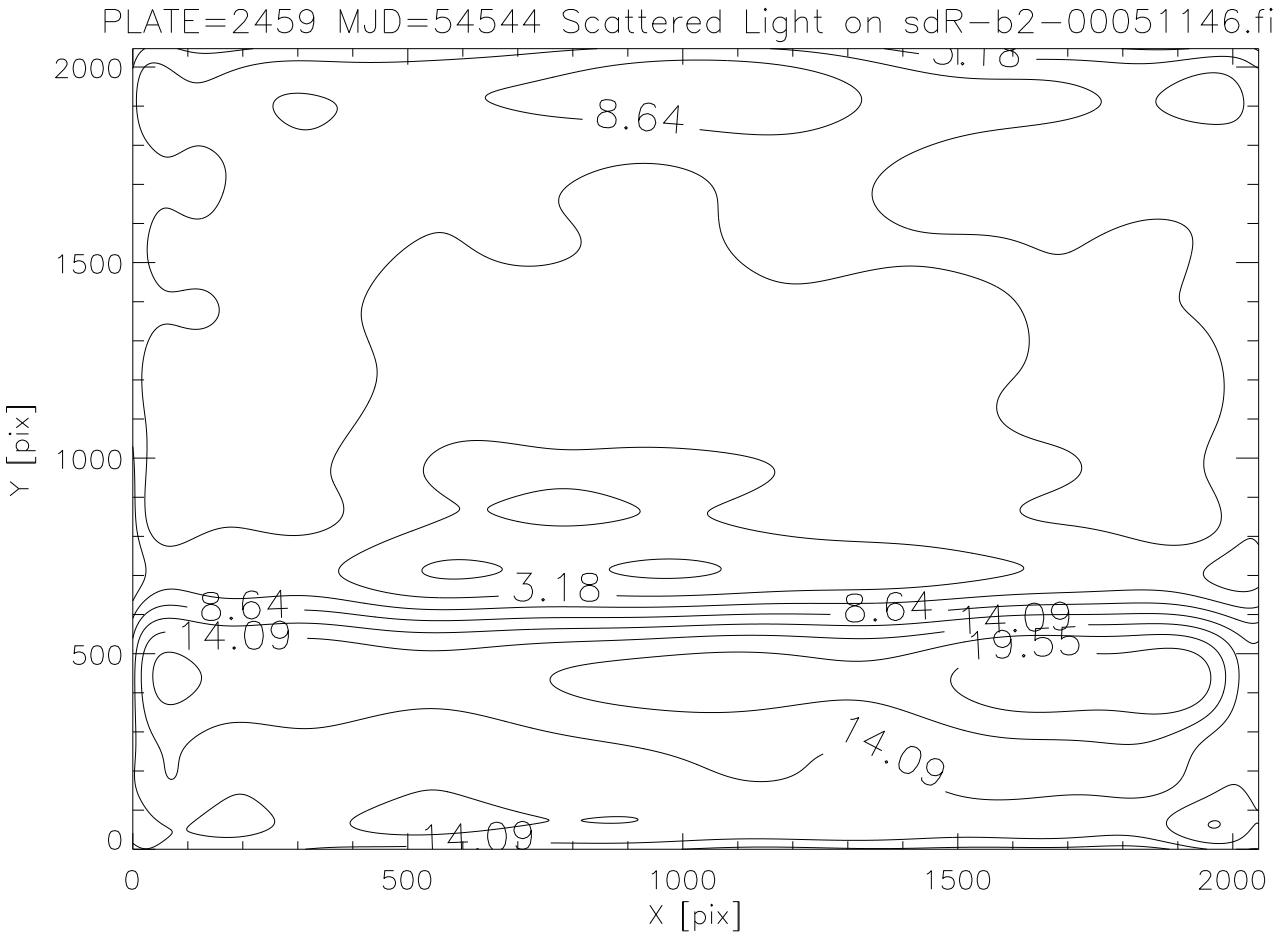

PLATE=2459 MJD=54544 sdR-b2-00051145.fit Skyline Flux at 4359.5
RED = sky fiber
Dispersion = 20.64 %
Flux (4359.5)/Airmass
Fiber number
Focal Distance [mm]
Airmass

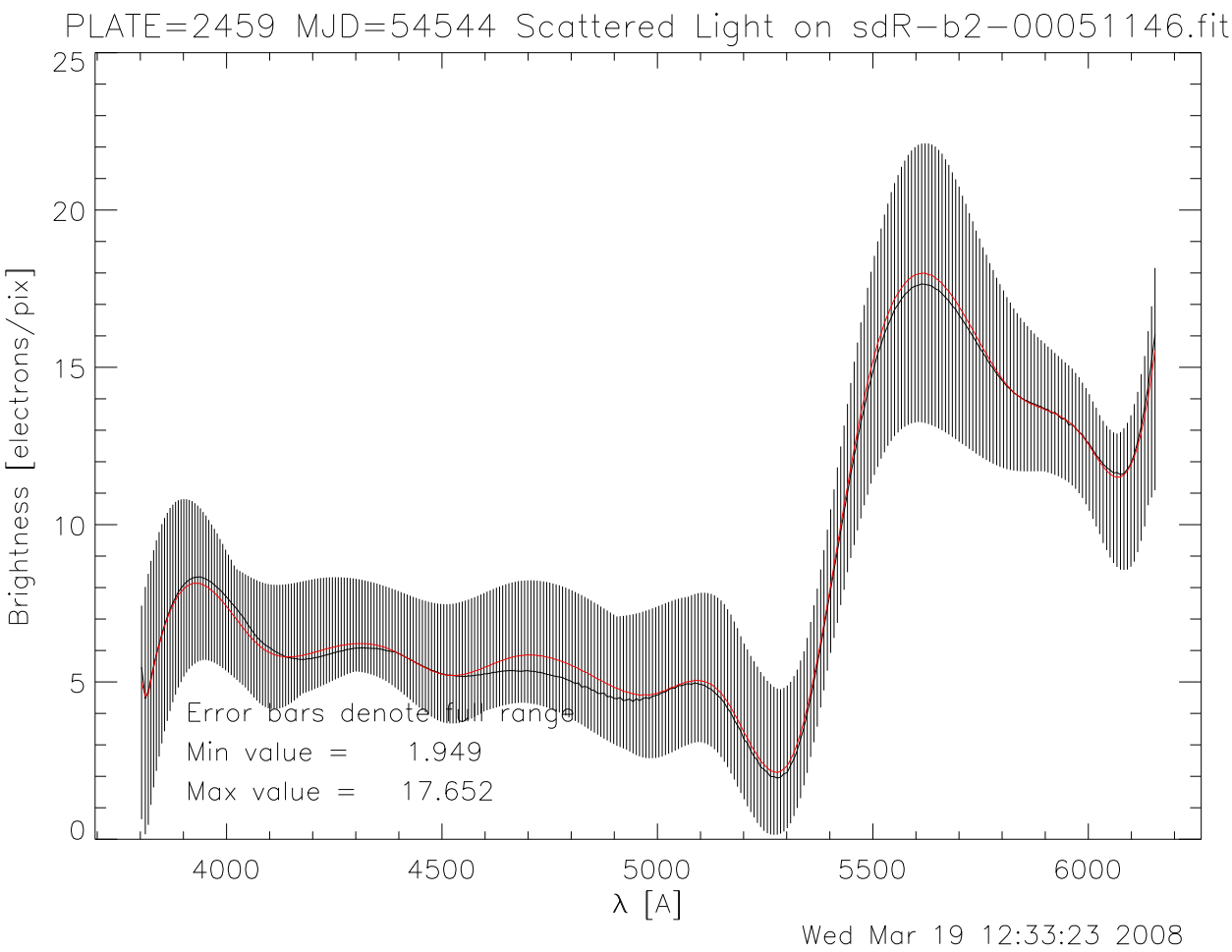

PLATE=2459 MJD=54544 sdR-b2-00051145.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
1.8×10^4
1.7×10^4
1.6×10^4
1.5×10^4
1.4×10^4
1.3×10^4
RED = sky fiber
Dispersion = 1.77 %
0
50
100
150
200
250
300
Fiber number
Flux (5578.9)/Airmass
1.8×10^4
1.7×10^4
1.6×10^4
1.5×10^4
1.4×10^4
1.3×10^4
0
50
100
150
200
250
300
350
Focal Distance [mm]
Flux (5578.9)/Airmass
1.8×10^4
1.7×10^4
1.6×10^4
1.5×10^4
1.4×10^4
1.3×10^4
1.004
1.005
1.006
1.007
1.008
1.009
Airmass

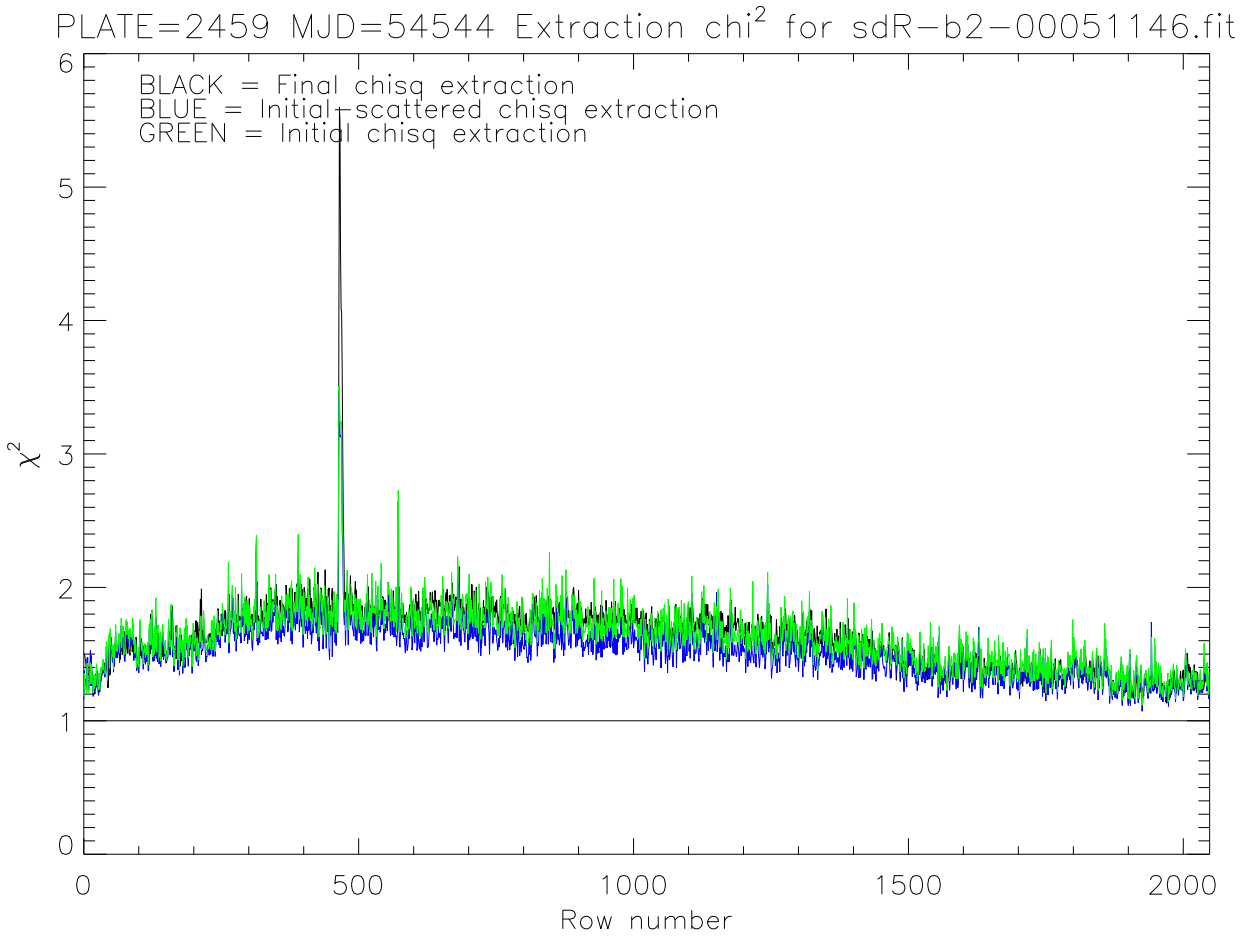

PLATE=2459 MJD=54544 Fiber-Flats for sdR-b2-00051139.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.735
Max value = 1.166
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 19 12:30:27 2008

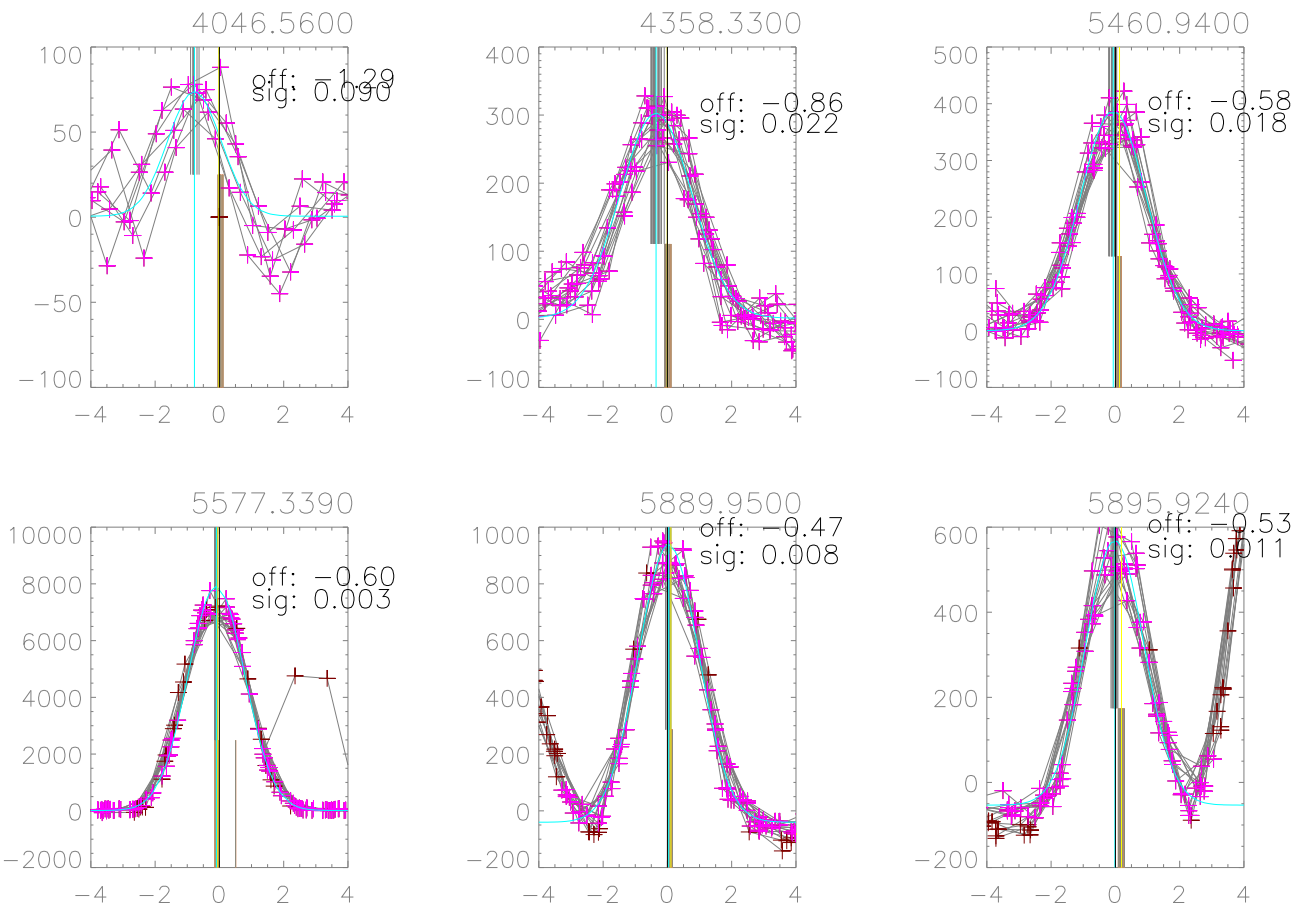

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-b2-00051146.f
Y [pix]
X [pix]
0
500
1000
1500
2000
18.2
25.5
32.7
0

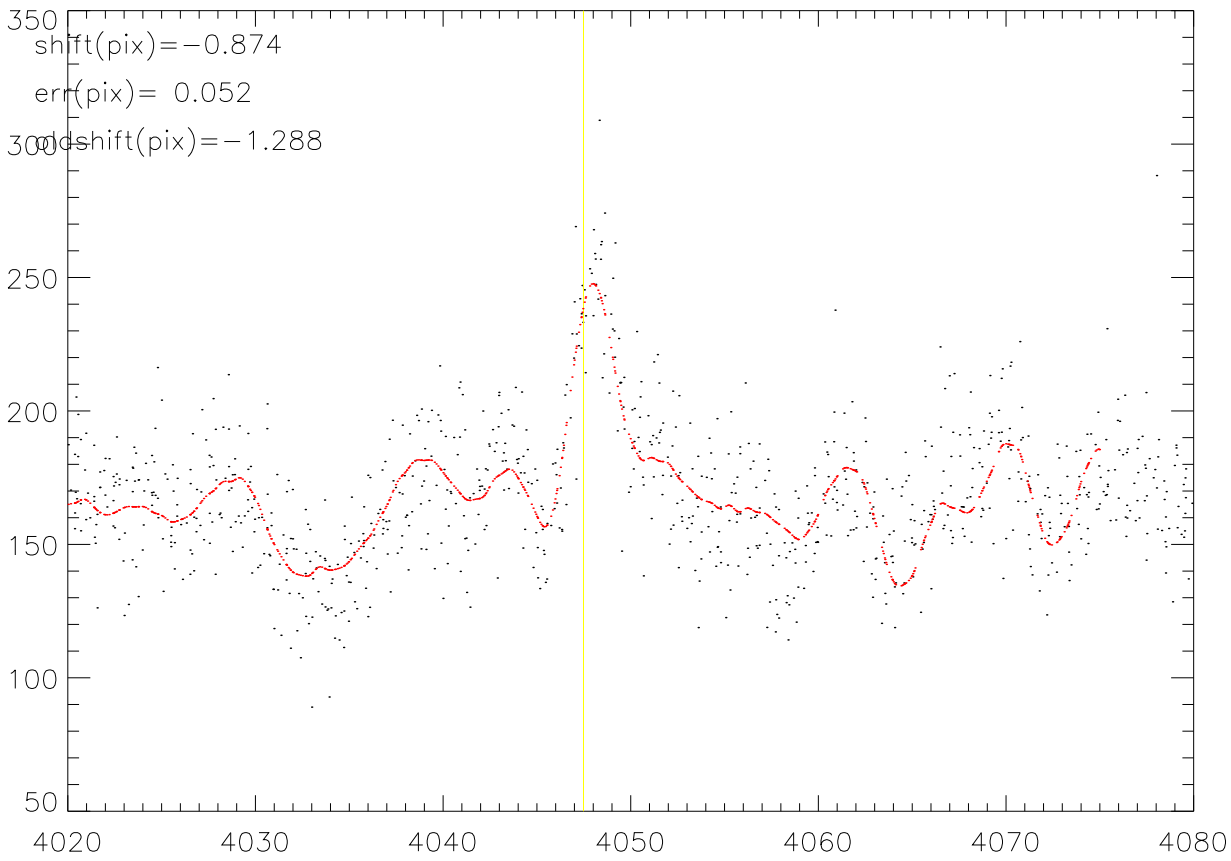

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-b2-00051146.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 17.994
Max value = 26.266
Wed Mar 19 12:31:14 2008

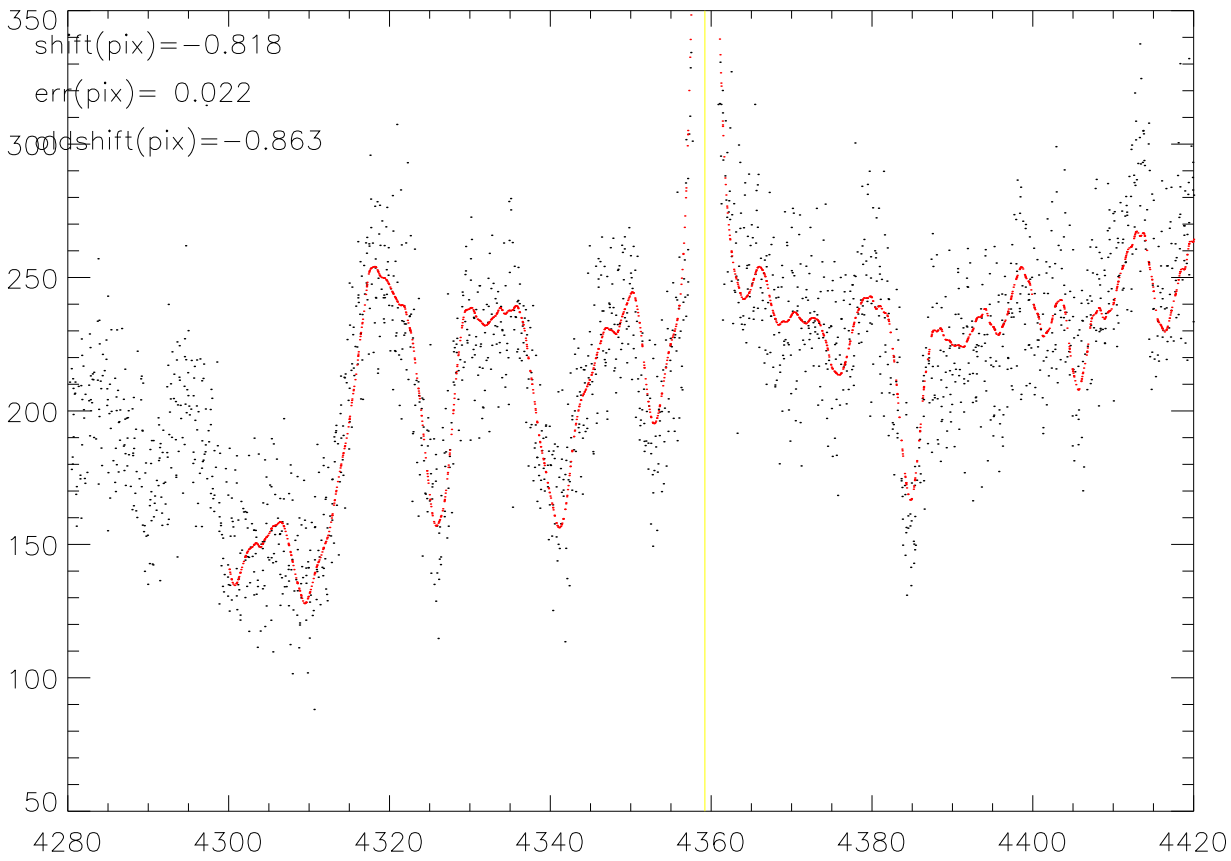

PLATE=2459 MJD=54544 Scattered Light on sdR-b2-00051146.fit
8.64
3.18
8.64
14.09
8.64
14.09
19.55
14.09
14.09
Y [pix]
X [pix]
0
500
1000
1500
2000

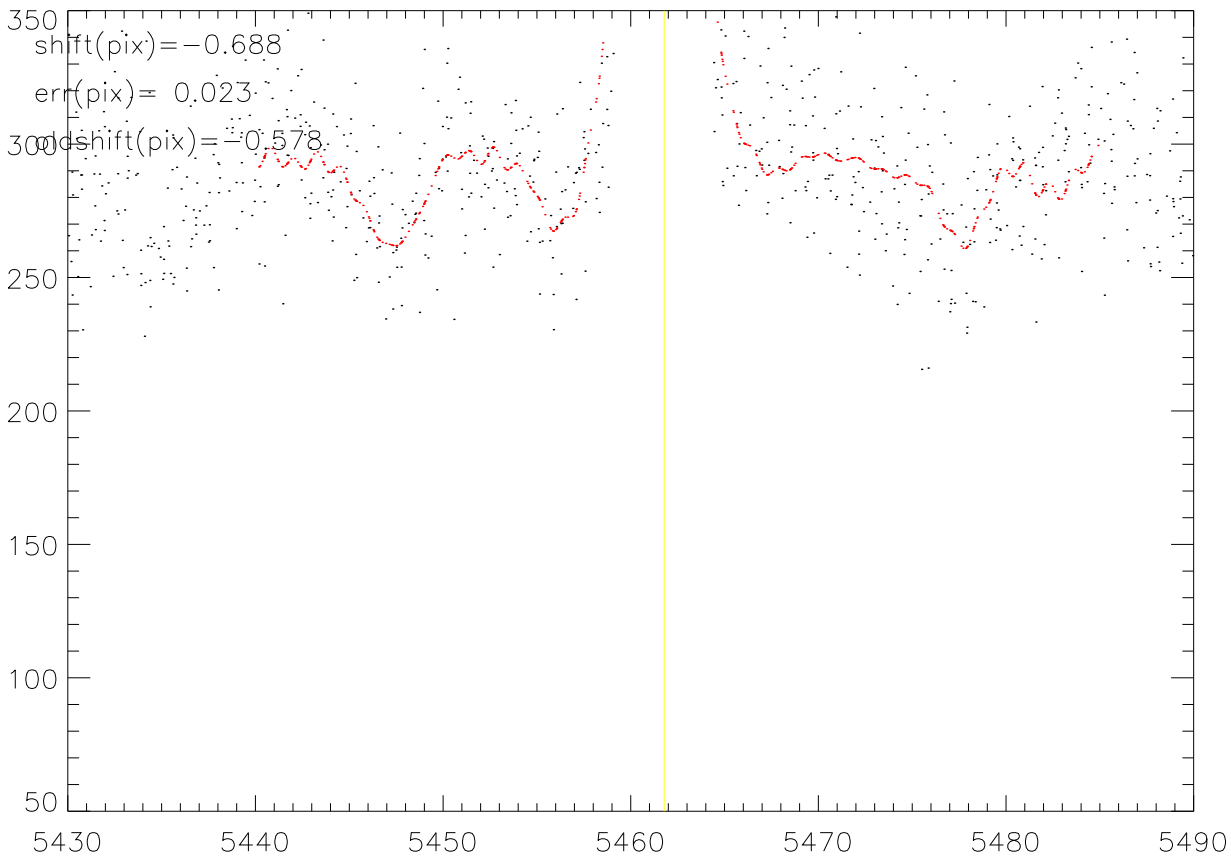

PLATE=2459 MJD=54544 Scattered Light on sdR-b2-00051146.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 1.949
Max value = 17.652
Wed Mar 19 12:33:23 2008

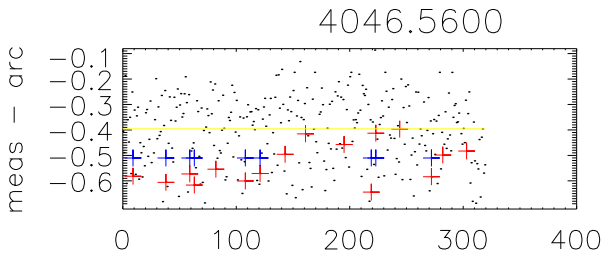

PLATE=2459 MJD=54544 Extraction chi^2 for sdR-b2-00051146.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
6
0
500
1000
1500
2000

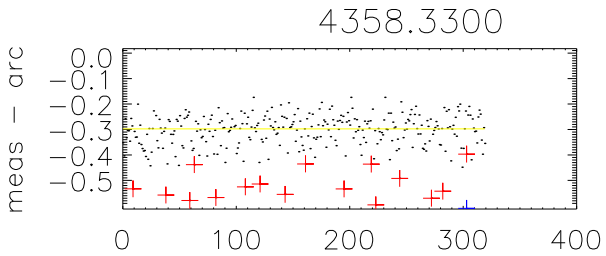

4046.5600
off: −1.29
sig: 0.090
4358.3300
off: −0.86
sig: 0.022
5460.9400
off: −0.58
sig: 0.018
5577.3390
off: −0.60
sig: 0.003
5889.9500
off: −0.47
sig: 0.008
5895.9240
off: −0.53
sig: 0.011

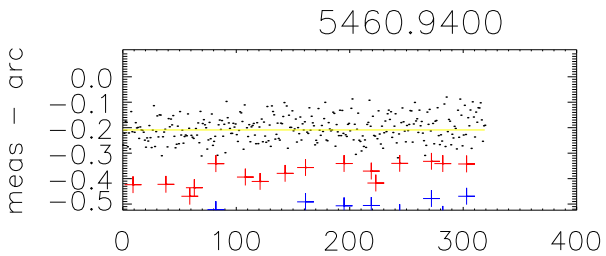

shift(pix)=−0.874
err(pix)= 0.052
oldshift(pix)=−1.288
350
300
250
200
150
100
50
4020
4030
4040
4050
4060
4070
4080

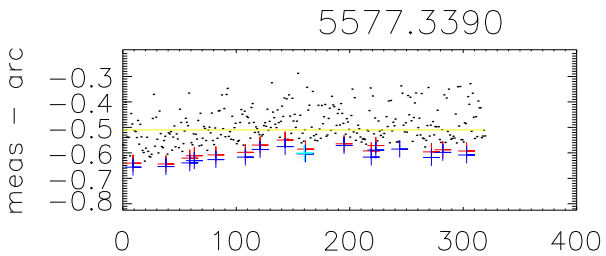

shift(pix)=−0.818
err(pix)= 0.022
oldshift(pix)=−0.863
350
300
250
200
150
100
50
4280
4300
4320
4340
4360
4380
4400
4420

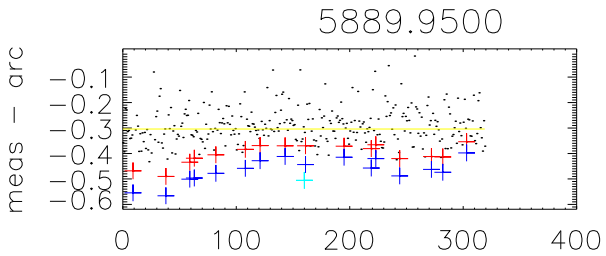

shift(pix)=−0.688
err(pix)= 0.023
oldshift(pix)=−0.578
350
300
250
200
150
100
50
5430
5440
5450
5460
5470
5480
5490

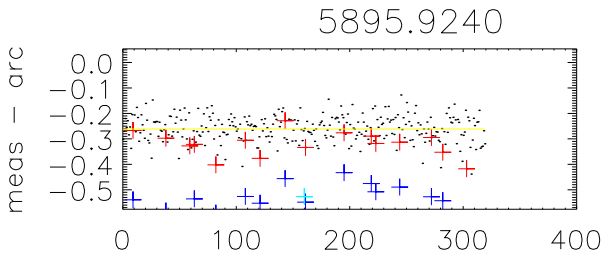

4046.5600
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

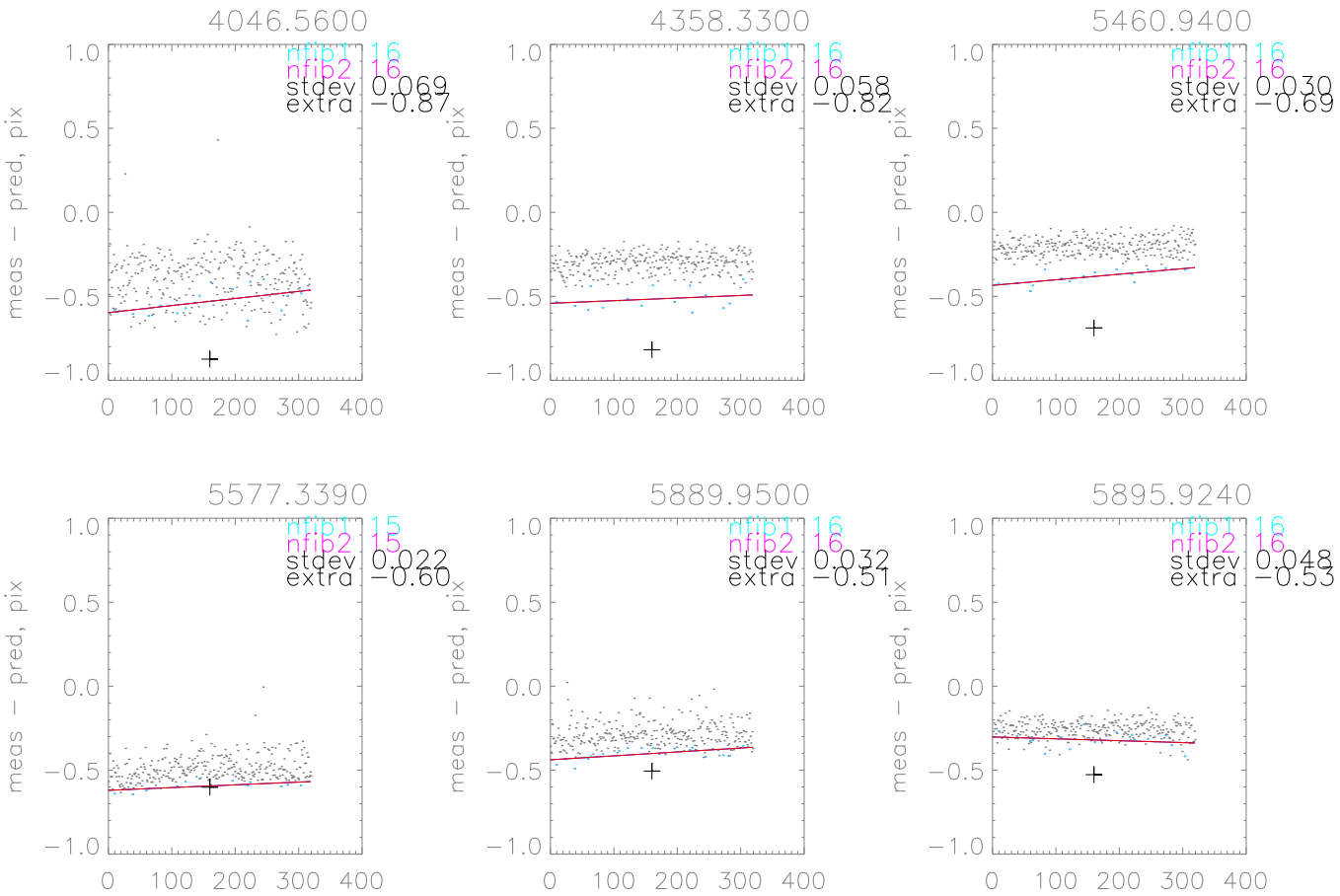

4358.3300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

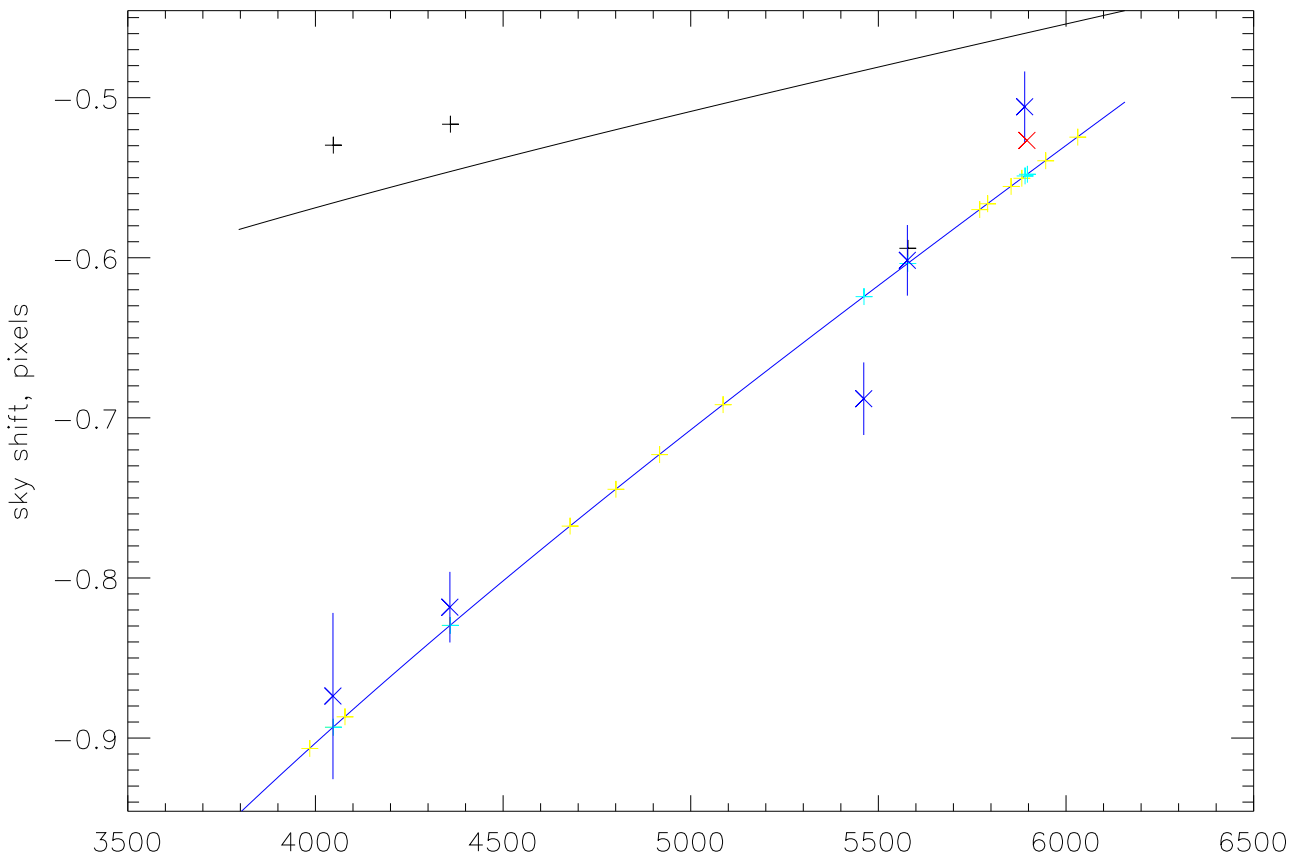

5460.9400
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

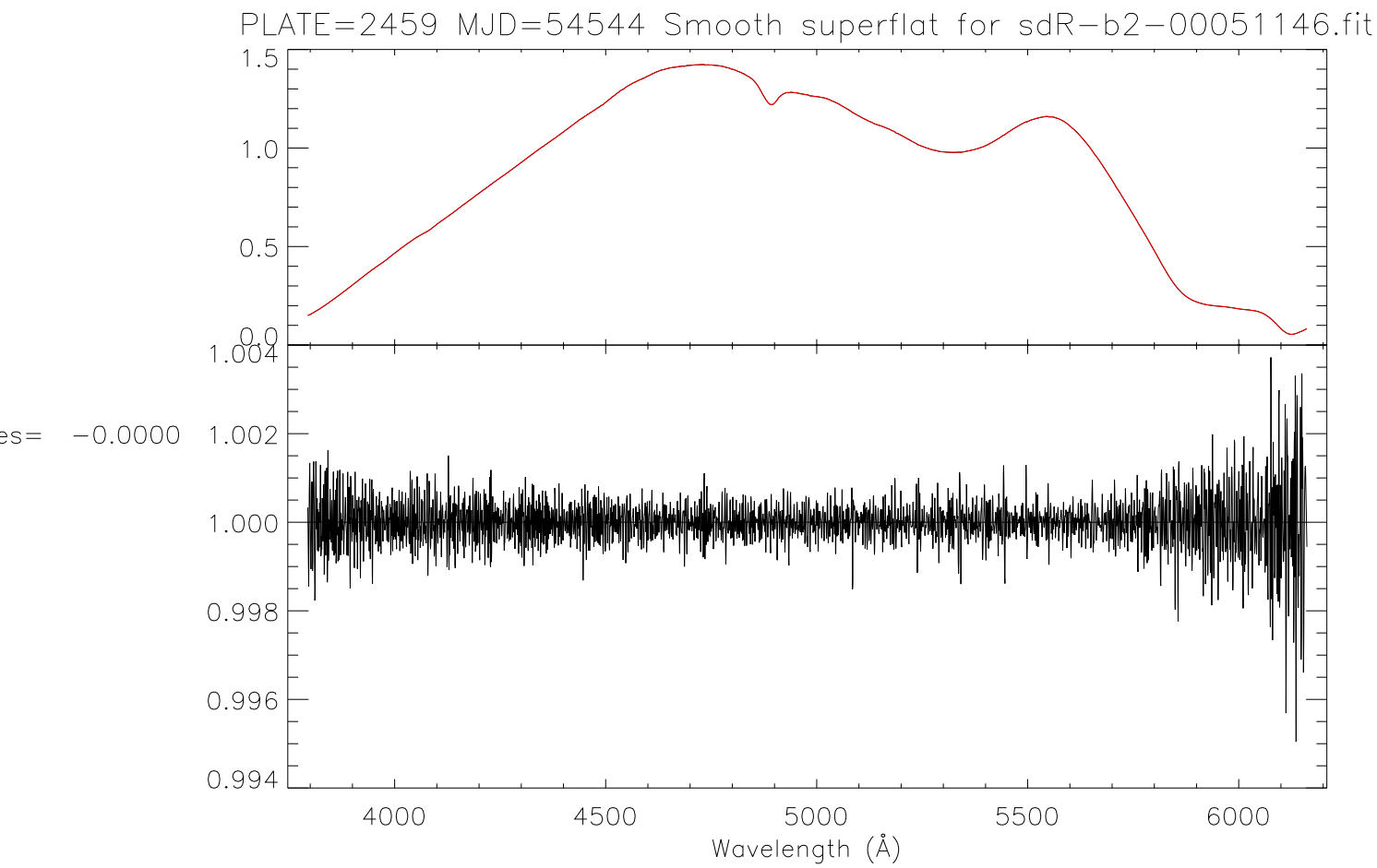

5577.3390
meas − arc
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
0
100
200
300
400

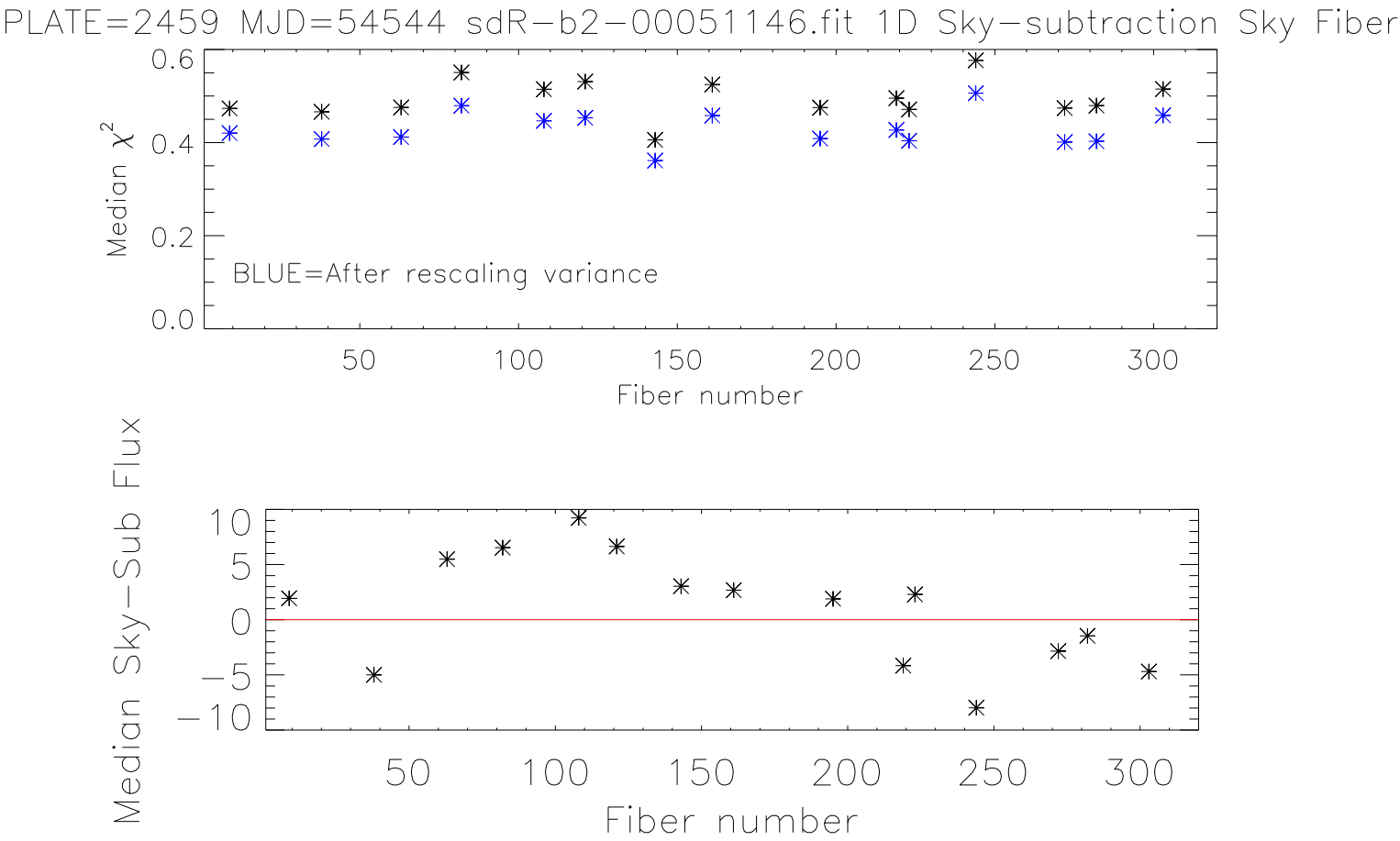

5889.9500
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

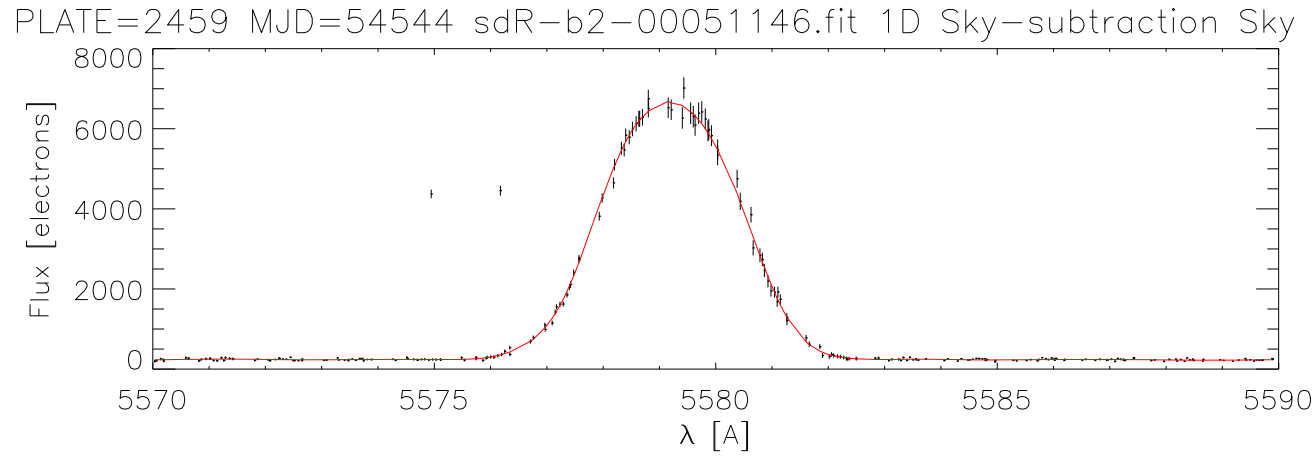

5895.9240
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

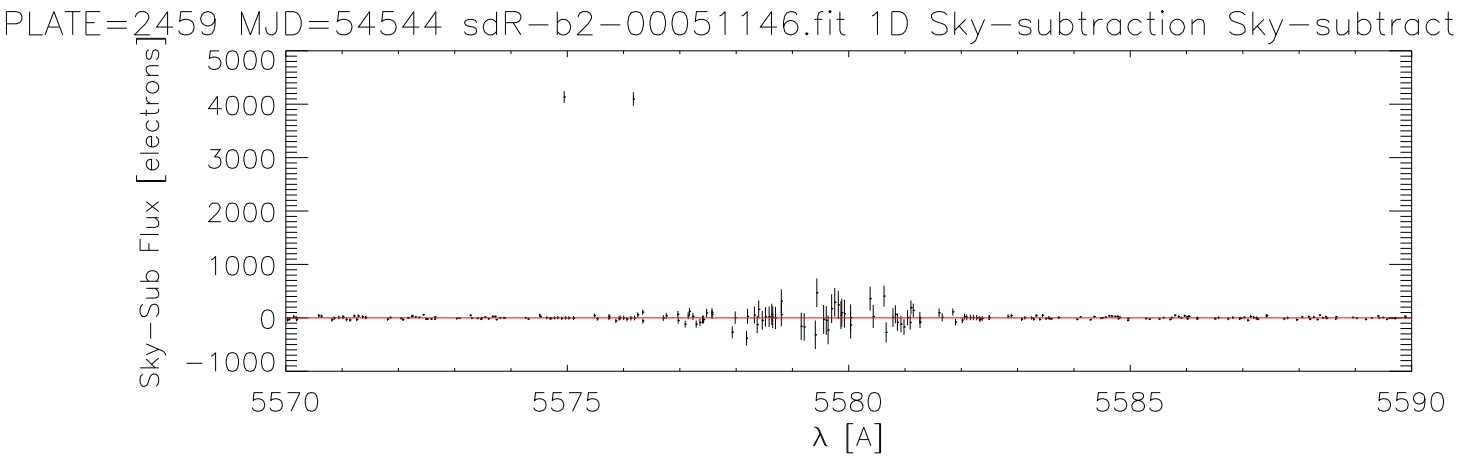

4046.5600
nfib1 16
nfib2 16
stdev 0.069
extra −0.87
4358.3300
nfib1 16
nfib2 16
stdev 0.058
extra −0.82
5460.9400
nfib1 16
nfib2 16
stdev 0.030
extra −0.69
5577.3390
nfib1 15
nfib2 15
stdev 0.022
extra −0.60
5889.9500
nfib1 16
nfib2 16
stdev 0.032
extra −0.51
5895.9240
nfib1 16
nfib2 16
stdev 0.048
extra −0.53
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

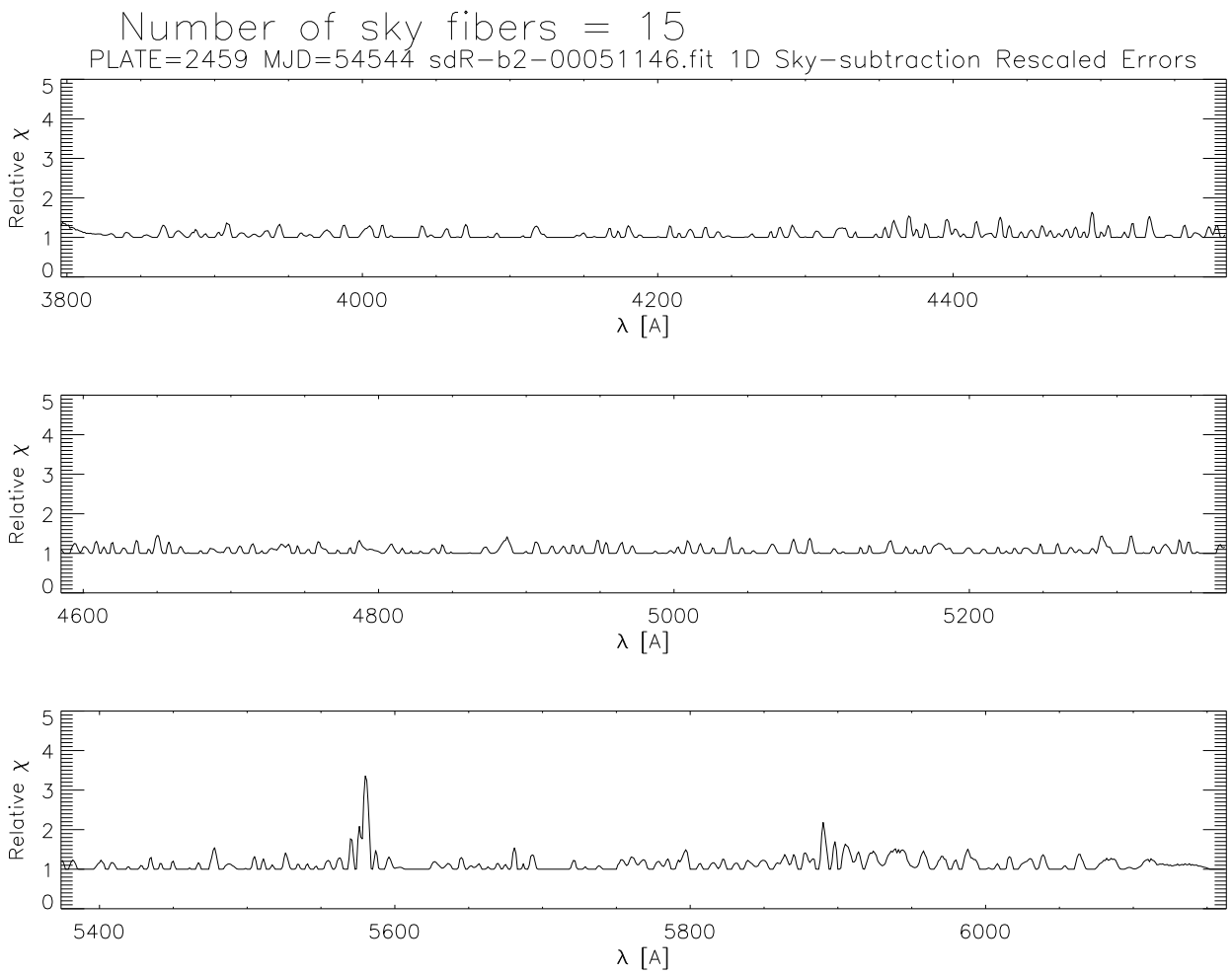

sky shift, pixels
−0.5
−0.6
−0.7
−0.8
−0.9
3500
4000
4500
5000
5500
6000
6500

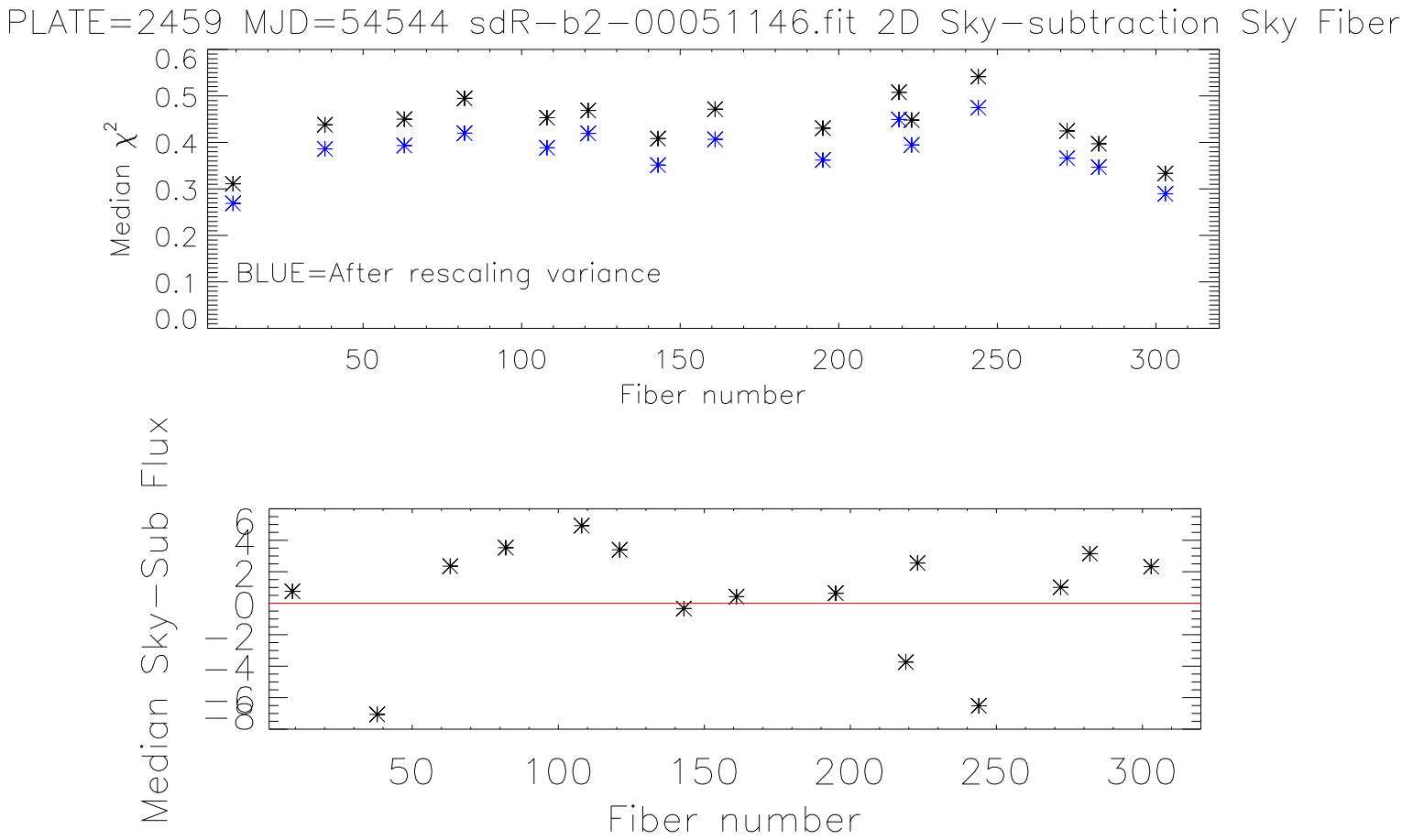

PLATE=2459 MJD=54544 Smooth superflat for sdR-b2-00051146.fit
1.5
1.0
0.5
0.0
es= -0.0000
1.004
1.002
1.000
0.998
0.996
0.994
4000
4500
5000
5500
6000
Wavelength (Å)

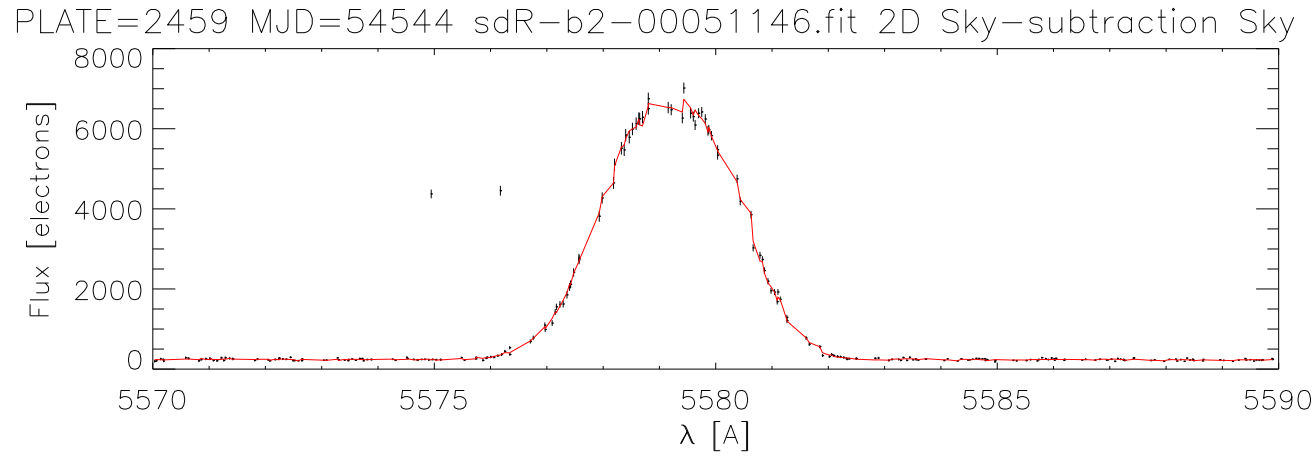

PLATE=2459 MJD=54544 sdR-b2-00051146.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

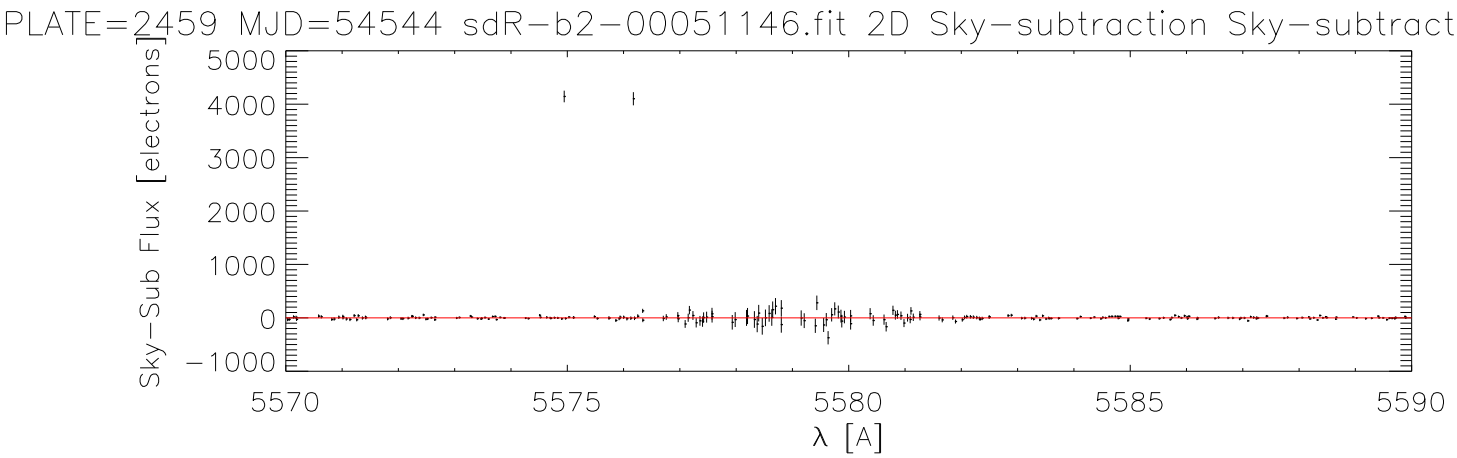

PLATE=2459 MJD=54544 sdR-b2-00051146.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

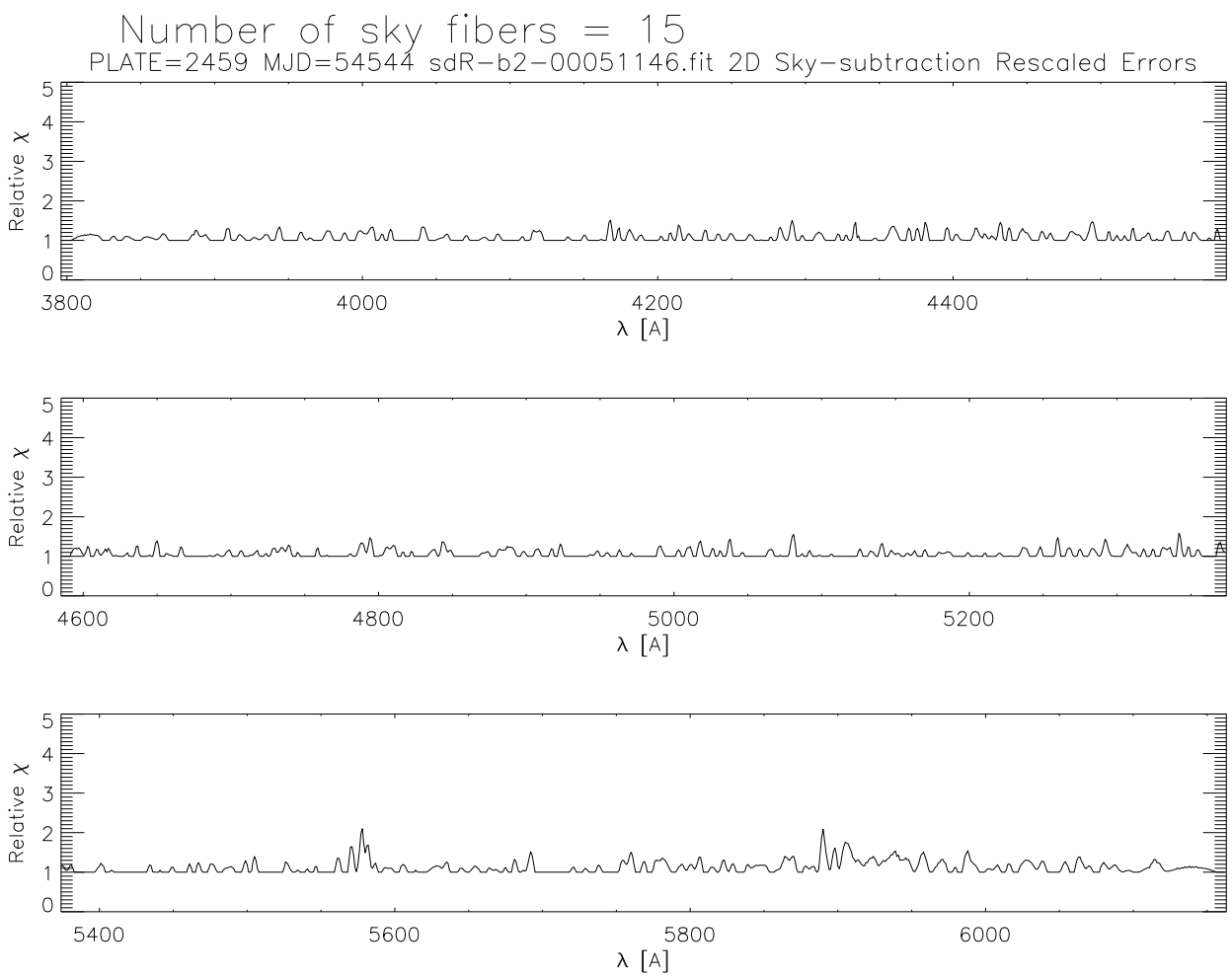

PLATE=2459 MJD=54544 sdR-b2-00051146.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
5000
4000
3000
2000
1000
0
-1000
5570
5575
5580
5585
5590
λ [A]

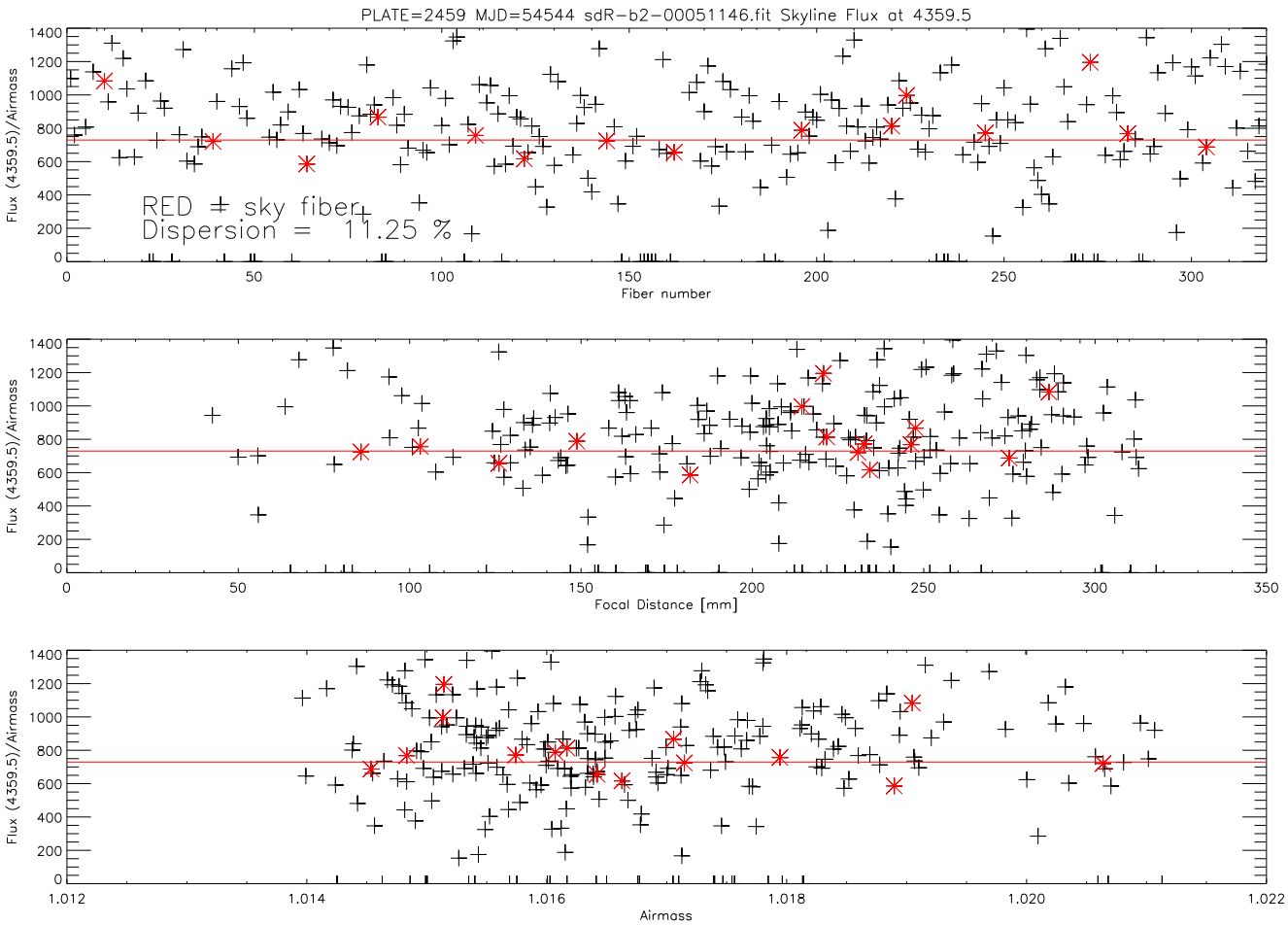

Number of sky fibers = 15
PLATE=2459 MJD=54544 sdR-b2-00051146.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

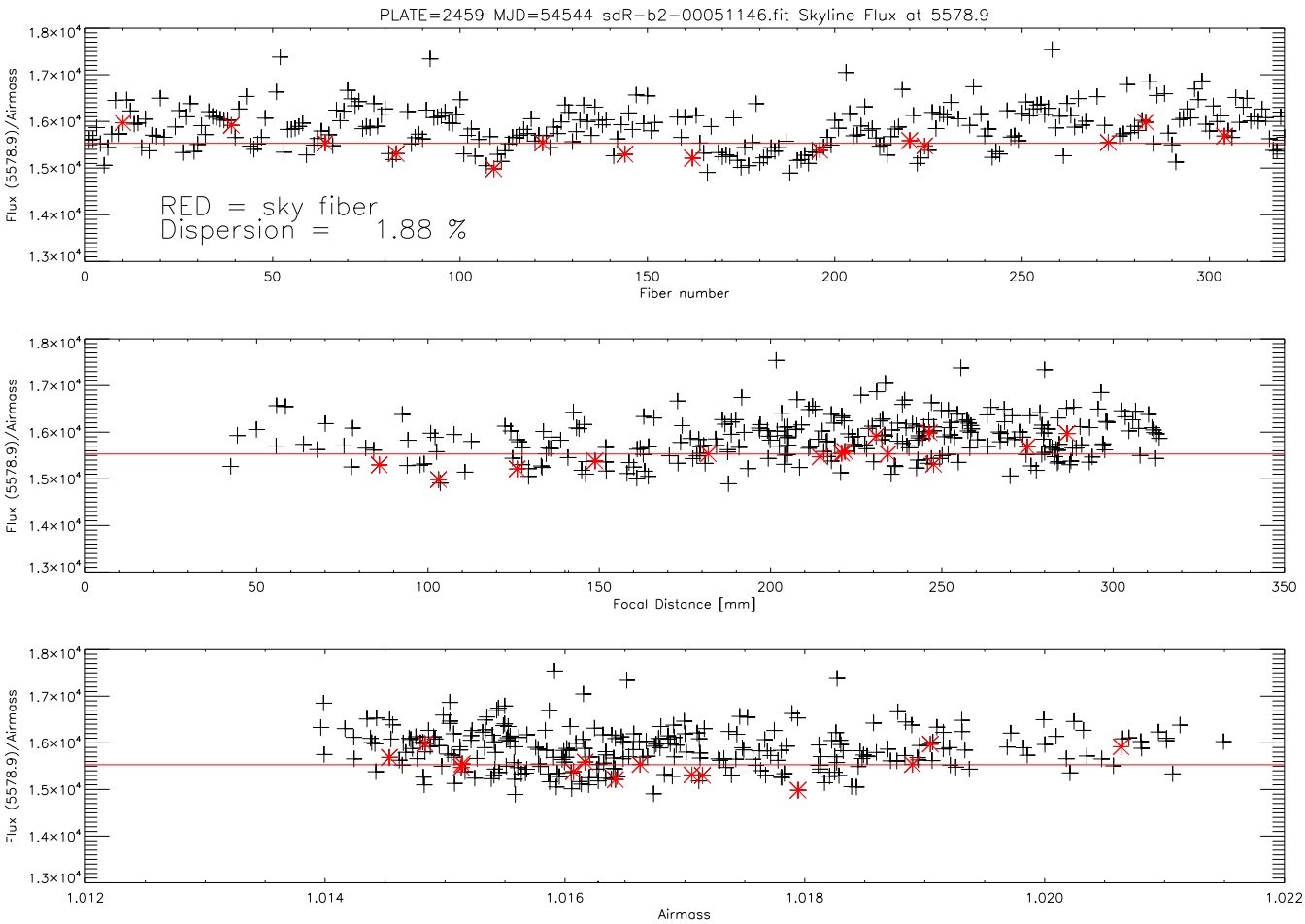

PLATE=2459 MJD=54544 sdR-b2-00051146.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-0.6
-0.4
-0.2
0.0
0.2
0.4
0.6
50
100
150
200
250
300
Fiber number

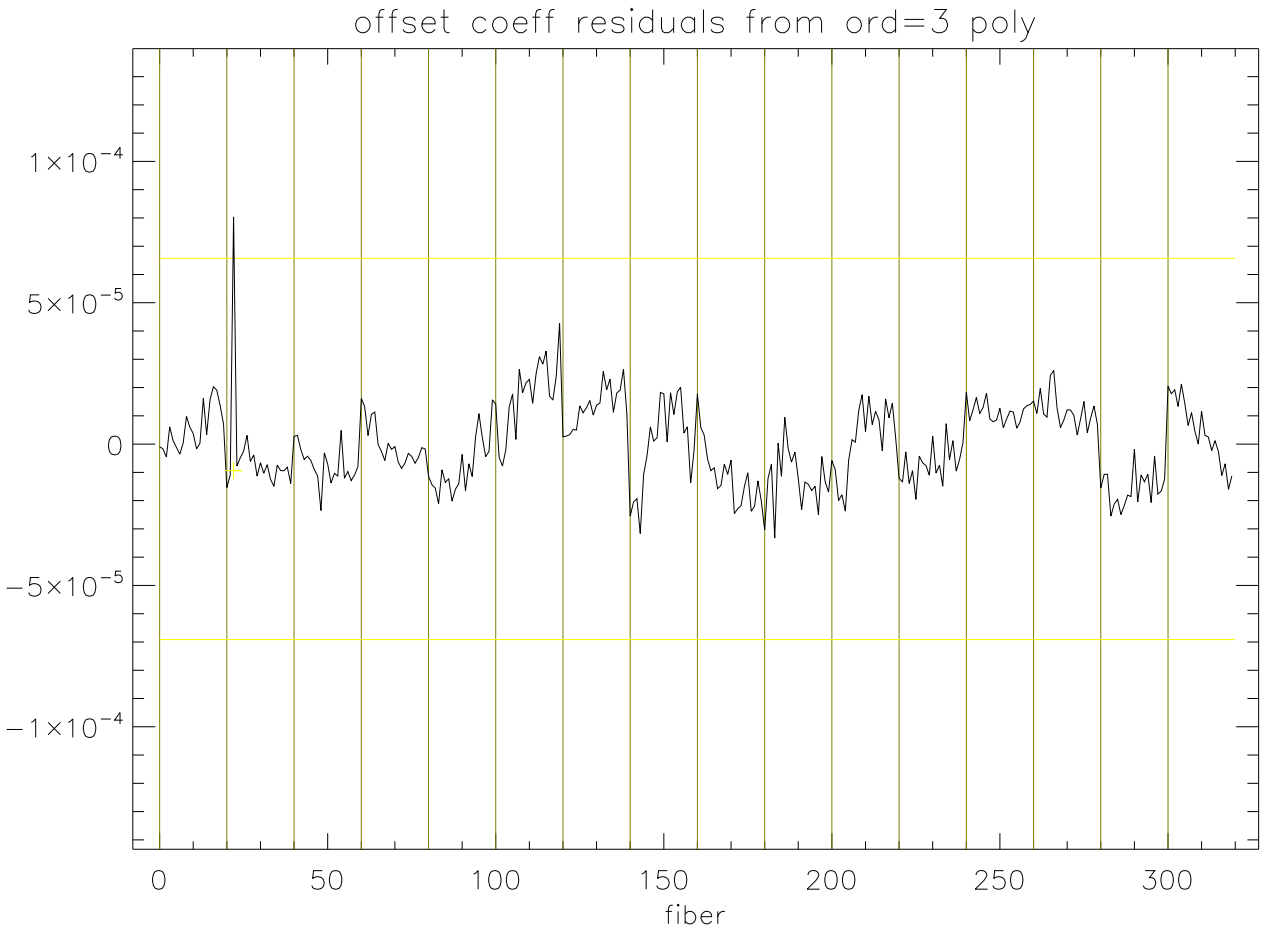

PLATE=2459 MJD=54544 sdR-b2-00051146.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

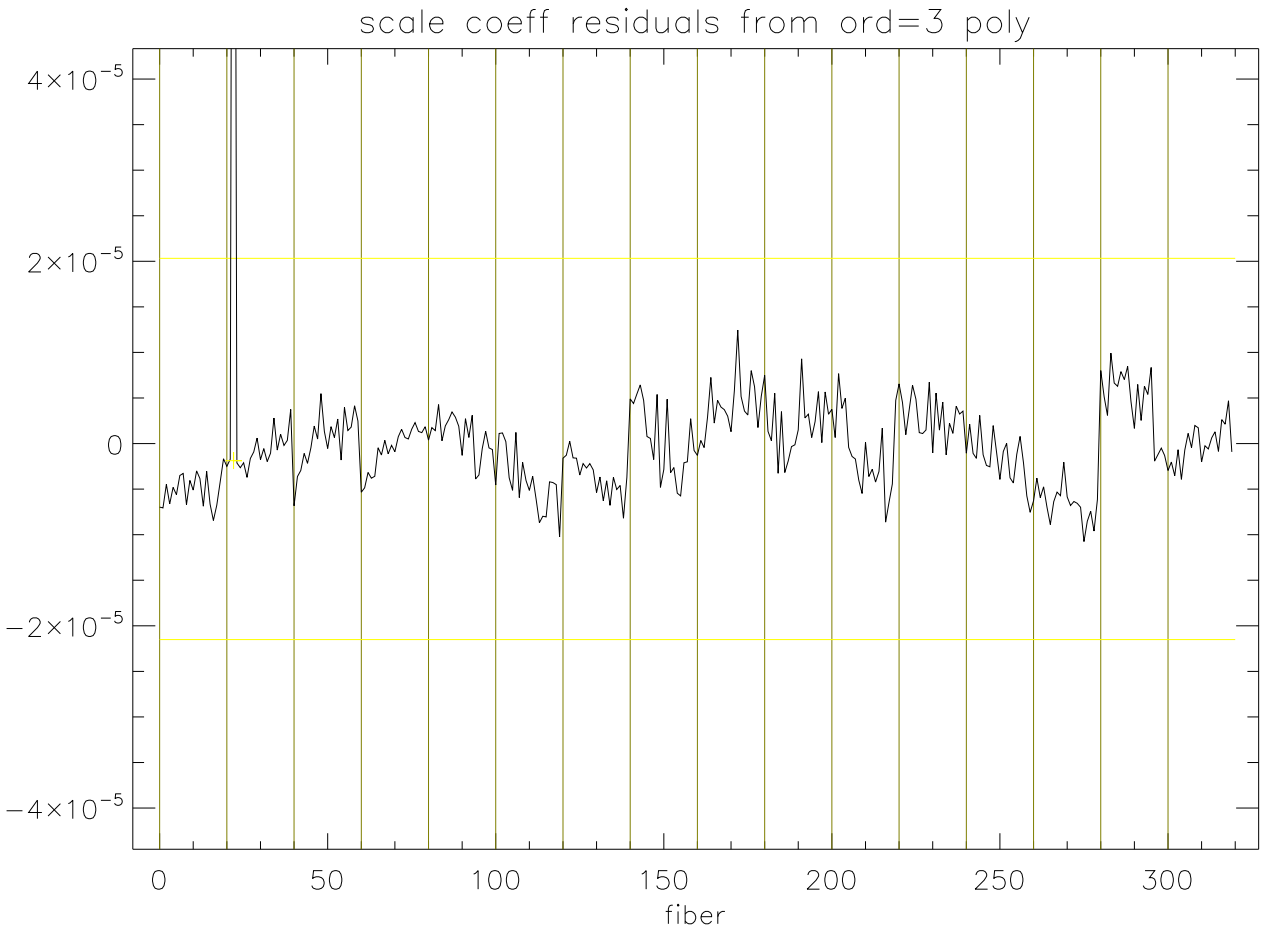

PLATE=2459 MJD=54544 sdR-b2-00051146.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
5000
4000
3000
2000
1000
0
-1000
5570
5575
5580
5585
5590
λ [A]

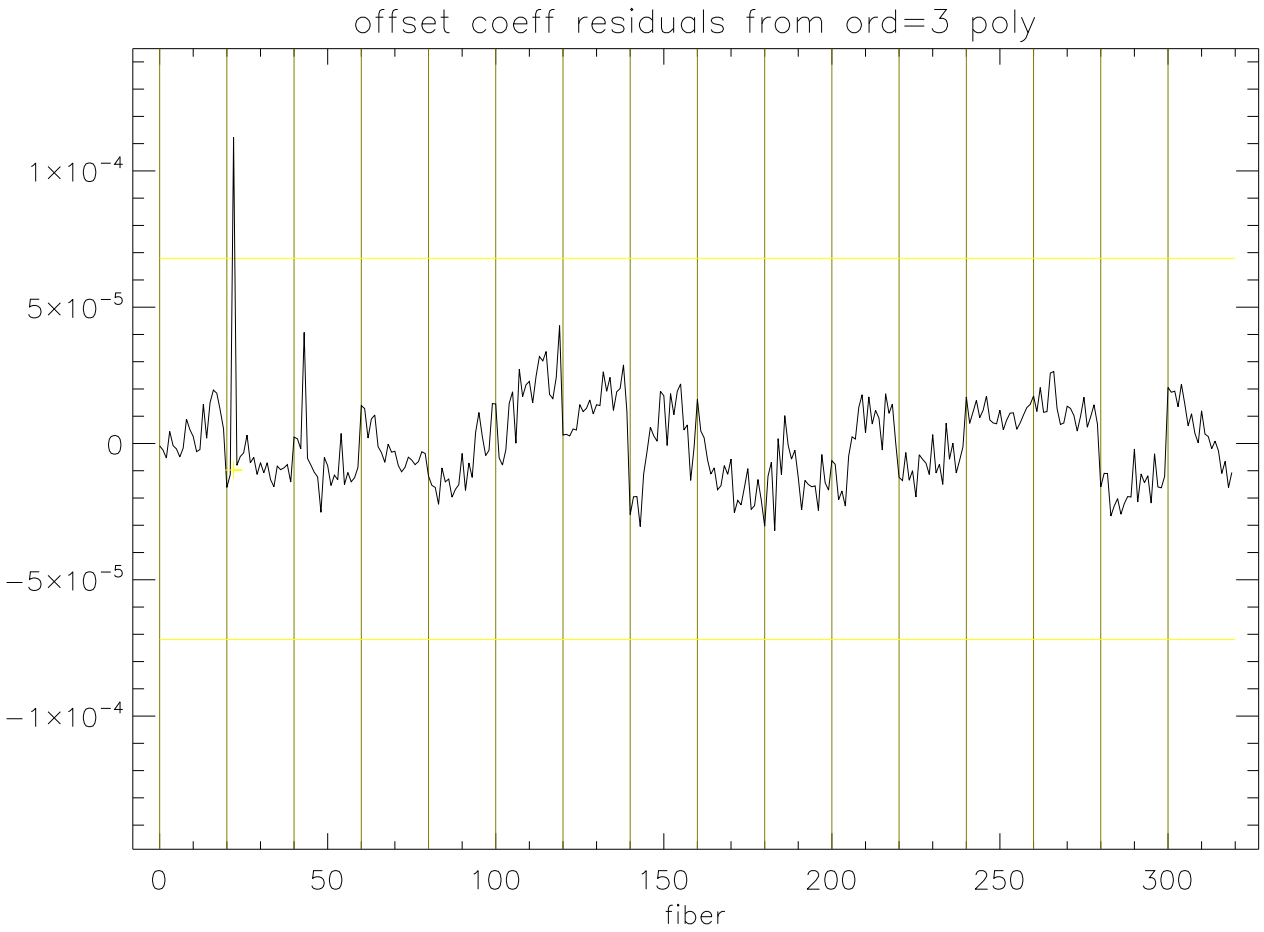

Number of sky fibers = 15
PLATE=2459 MJD=54544 sdR-b2-00051146.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

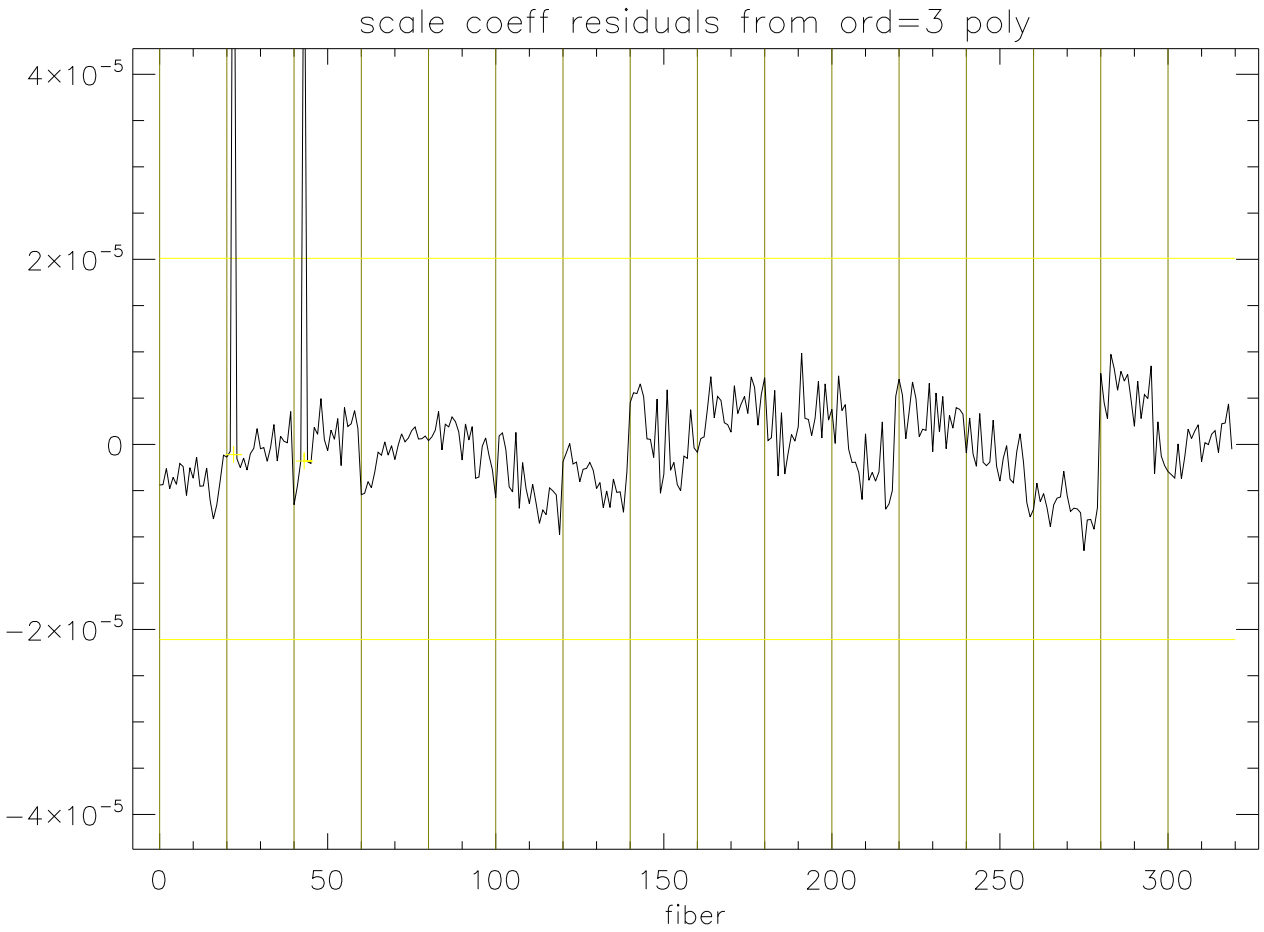

PLATE=2459 MJD=54544 sdR-b2-00051146.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 11.25 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

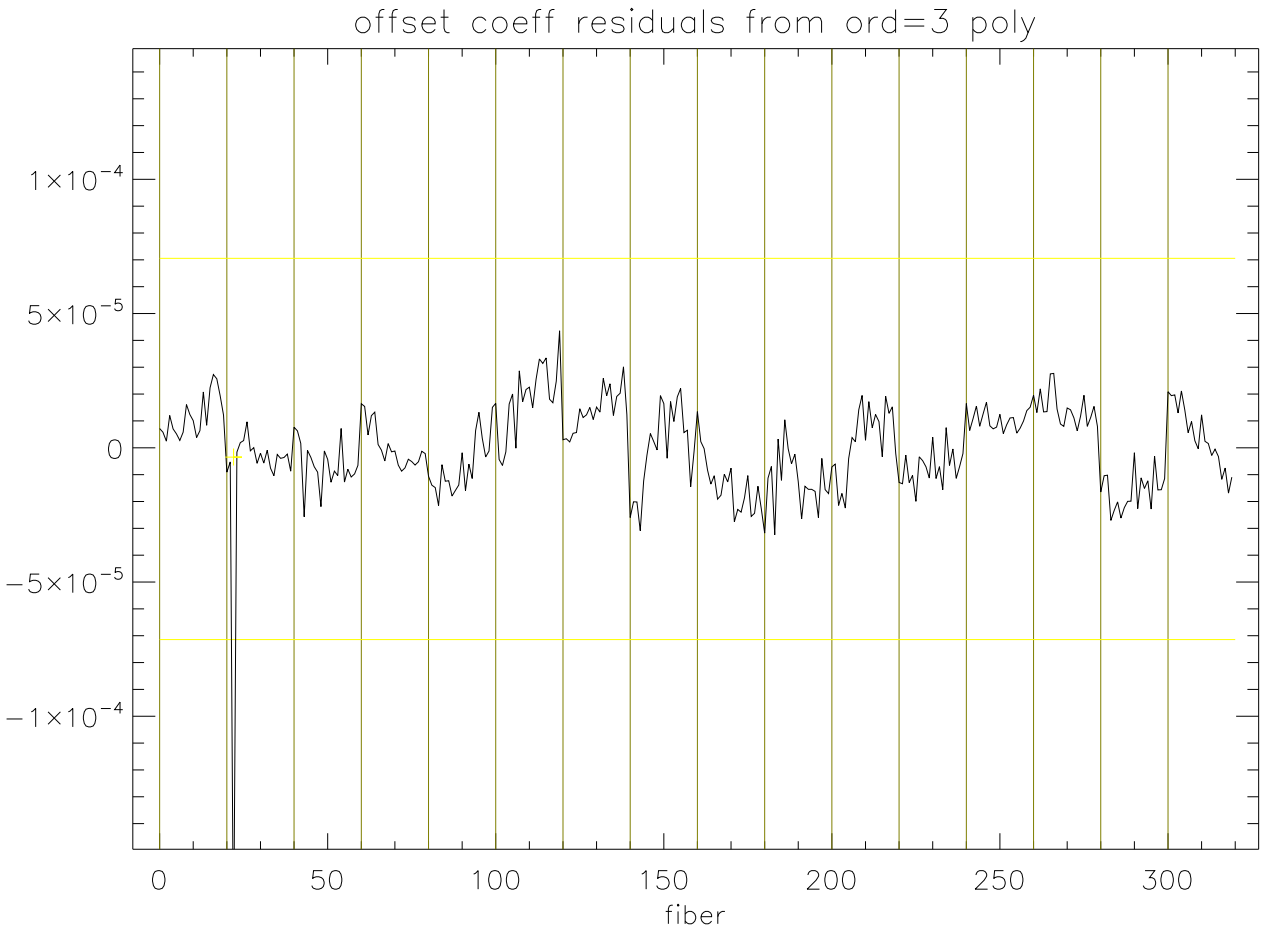

PLATE=2459 MJD=54544 sdR-b2-00051146.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.88 %
Fiber number
Focal Distance [mm]
Airmass

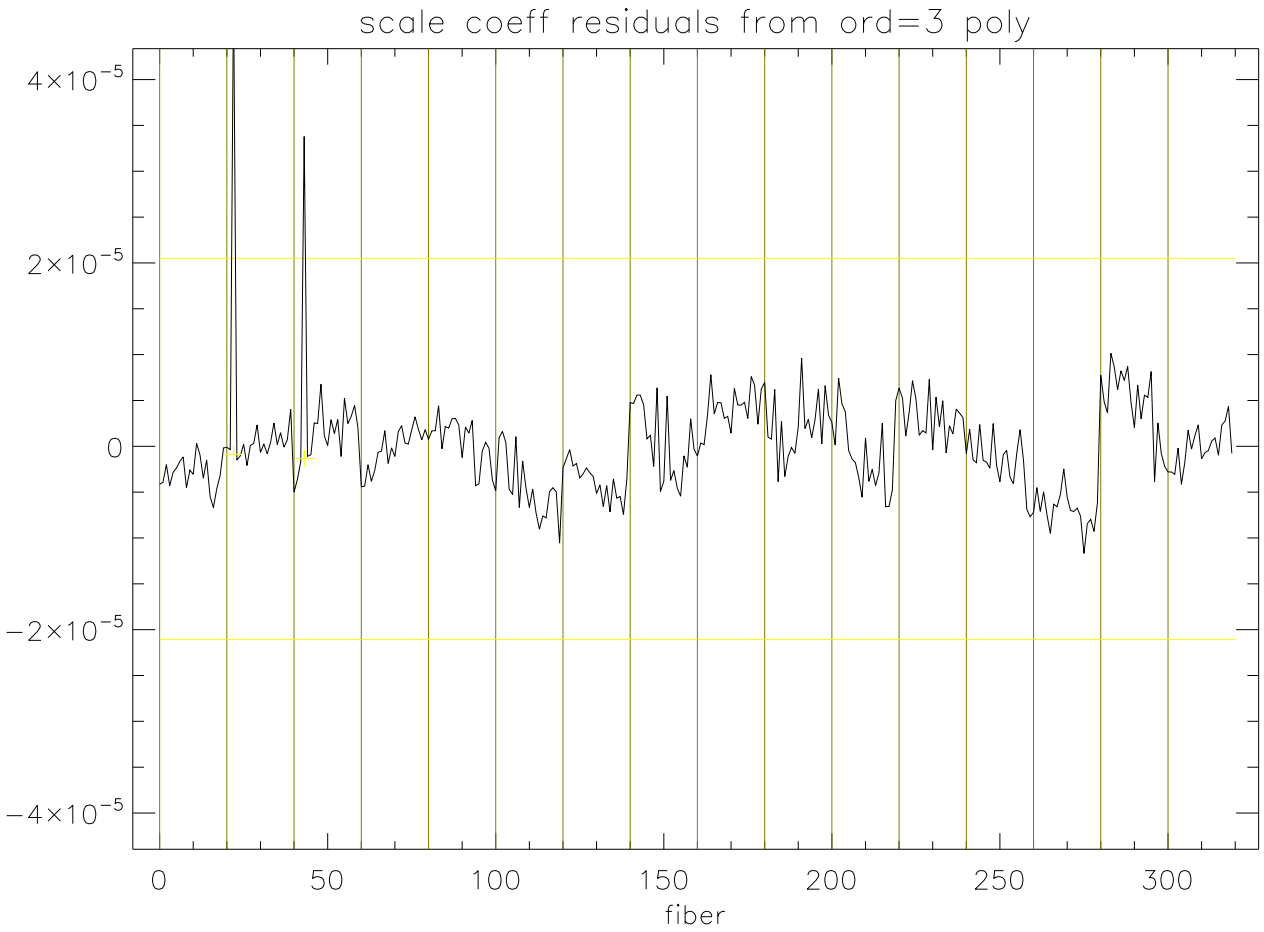

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

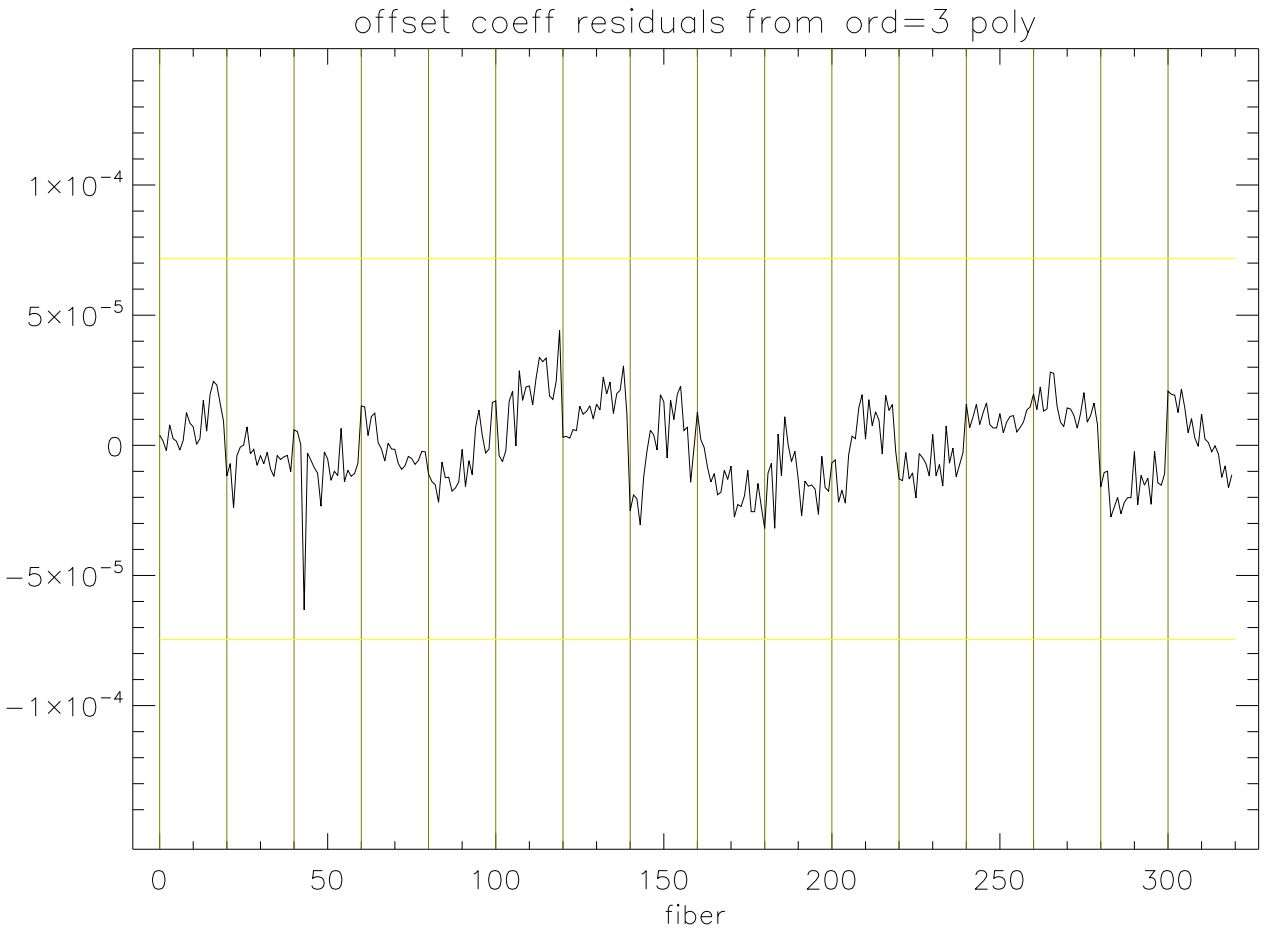

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

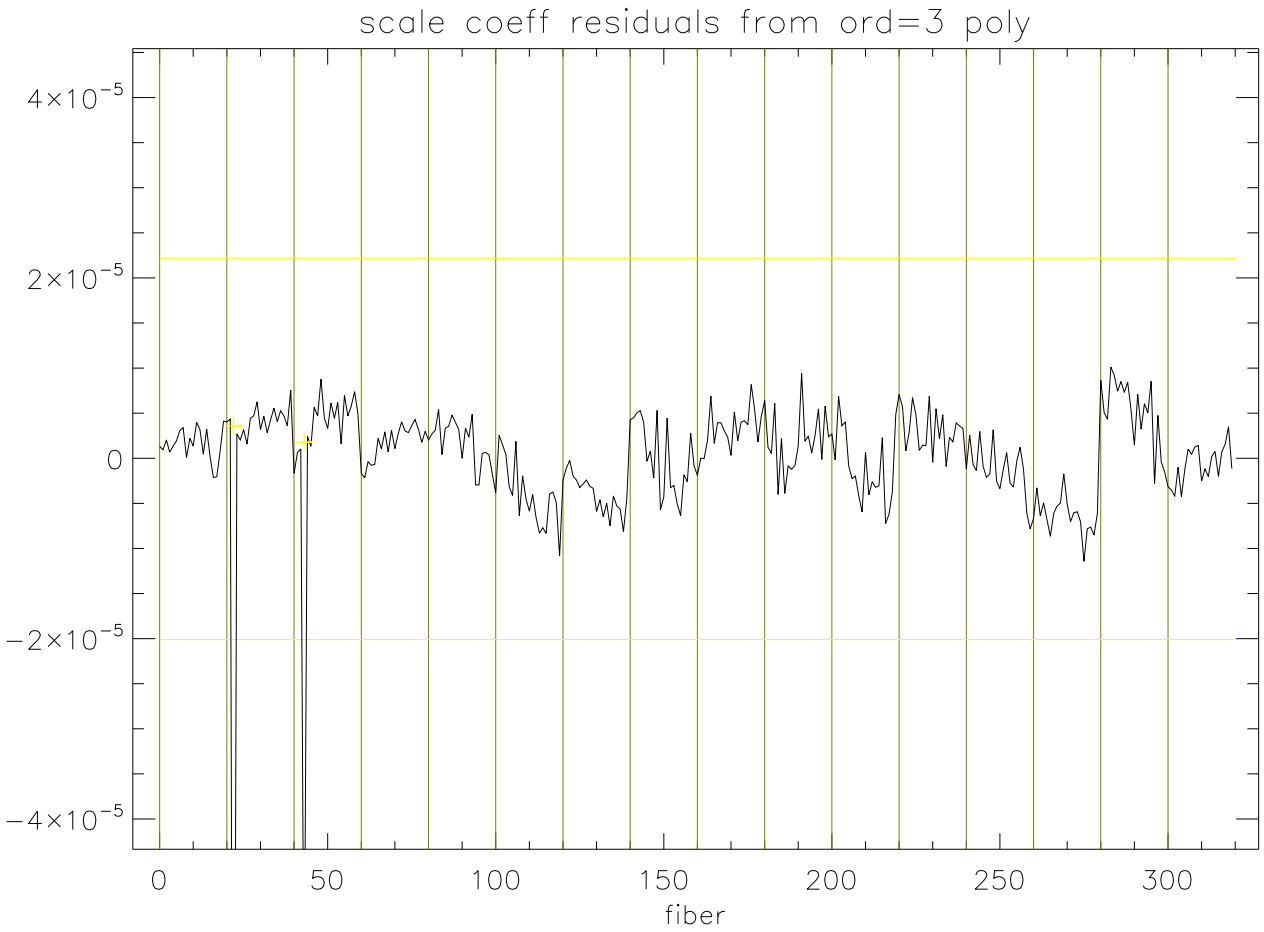

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

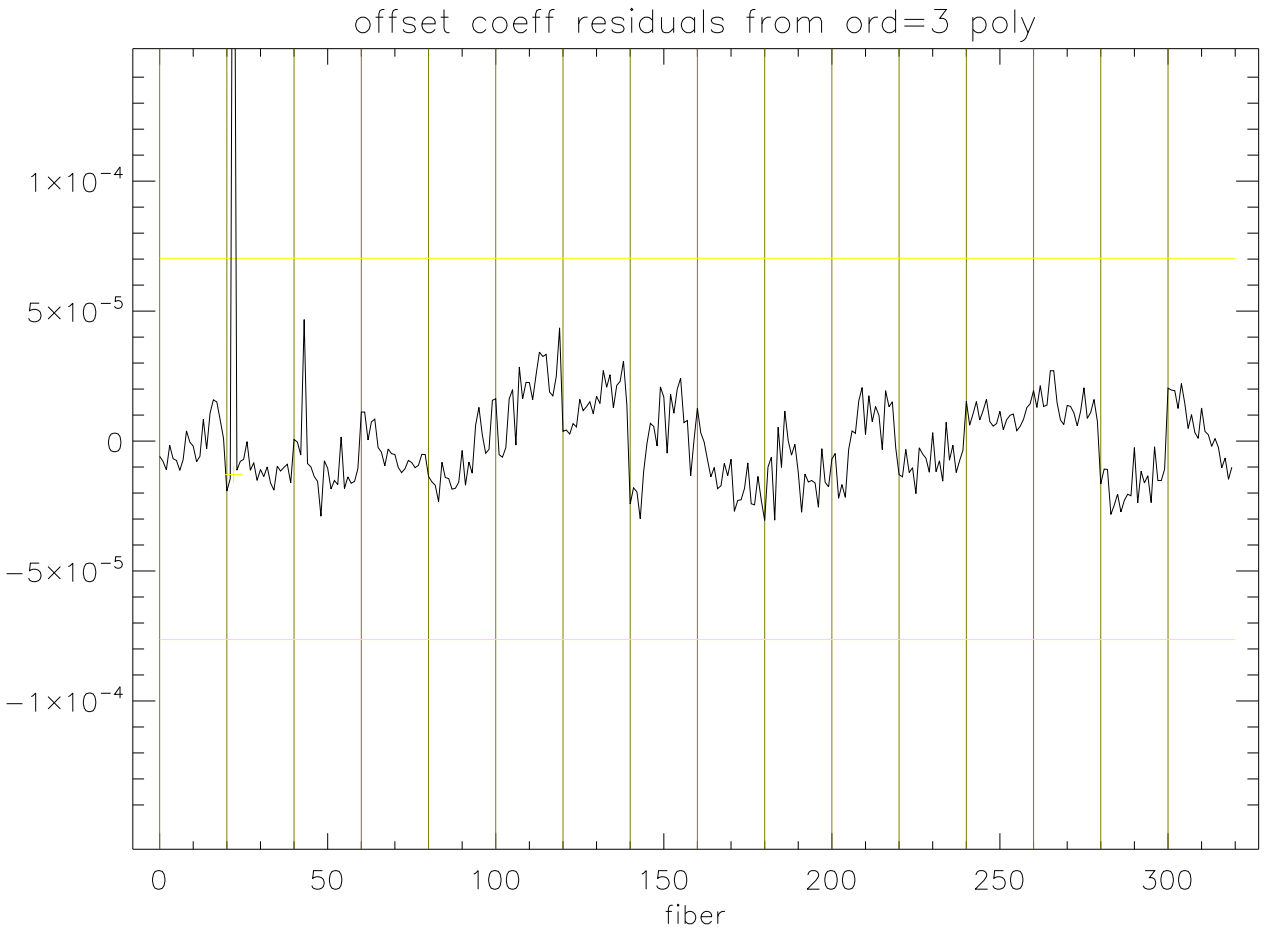

scale coeff residuals from ord=3 poly
4×10^-5
2×10^-5
0
−2×10^-5
−4×10^-5
0
50
100
150
200
250
300
fiber

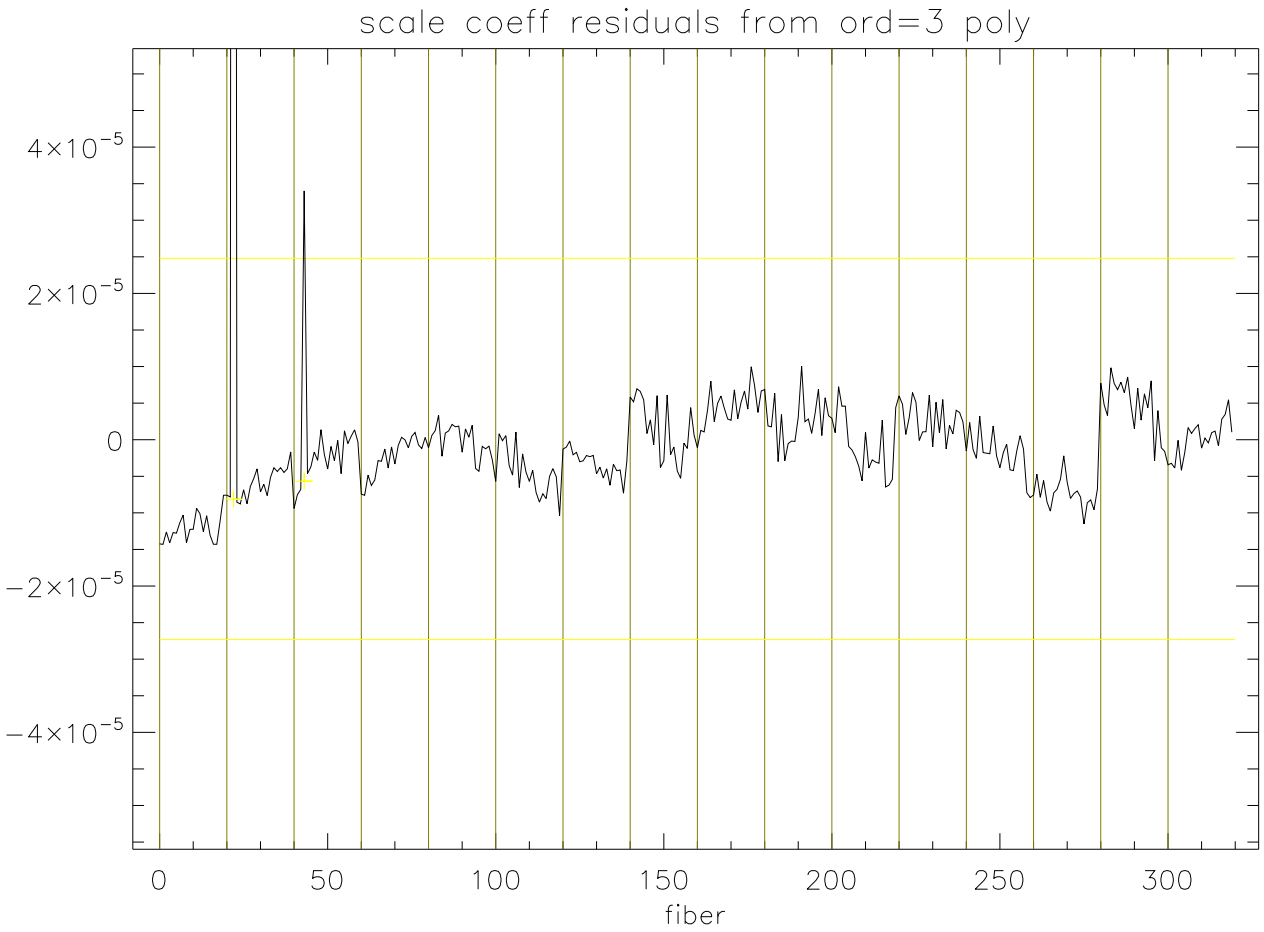

offset coeff residuals from ord=3 poly
1×10⁻⁴
5×10⁻⁵
0
−5×10⁻⁵
−1×10⁻⁴
0
50
100
150
200
250
300
fiber

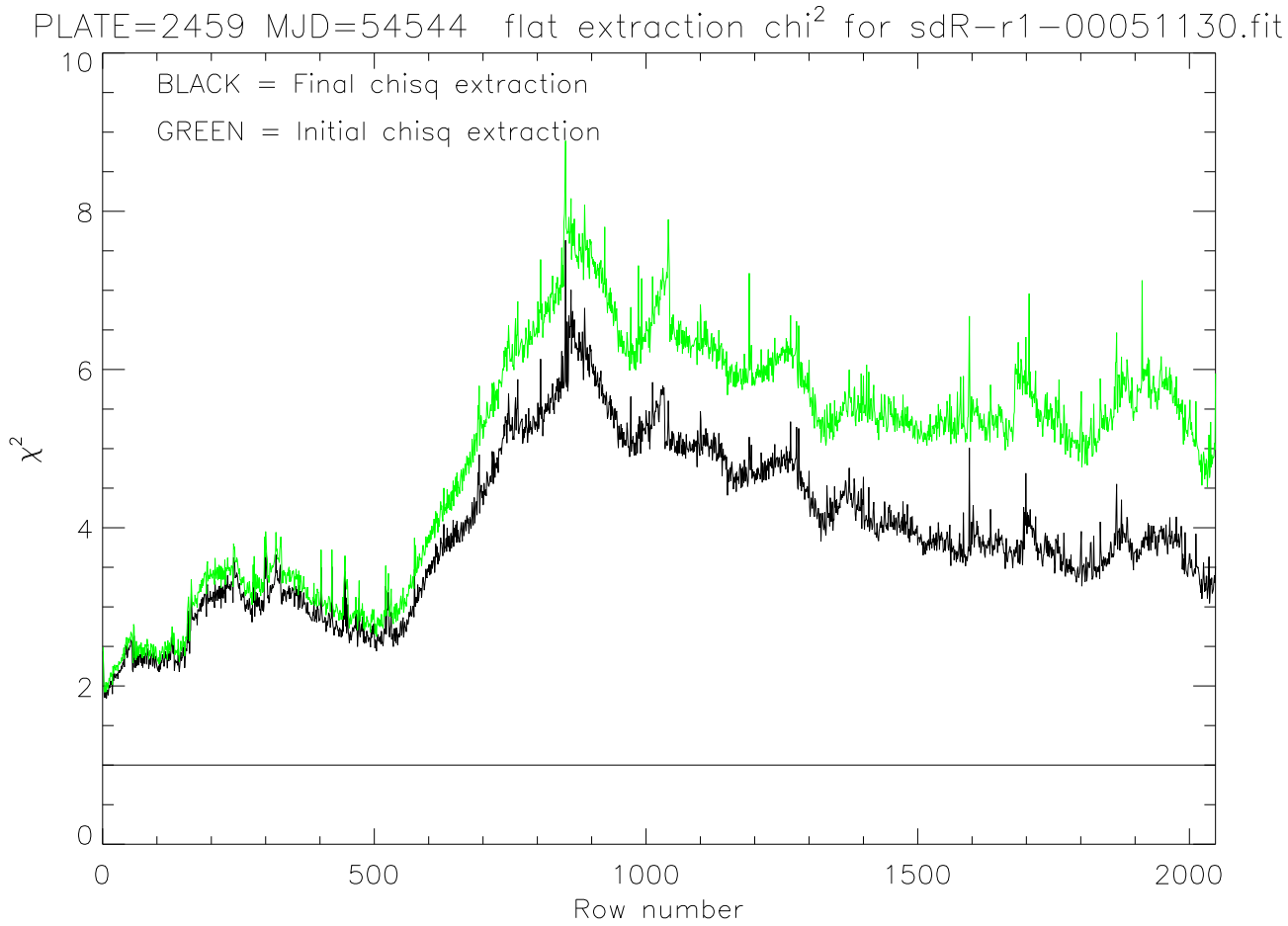

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

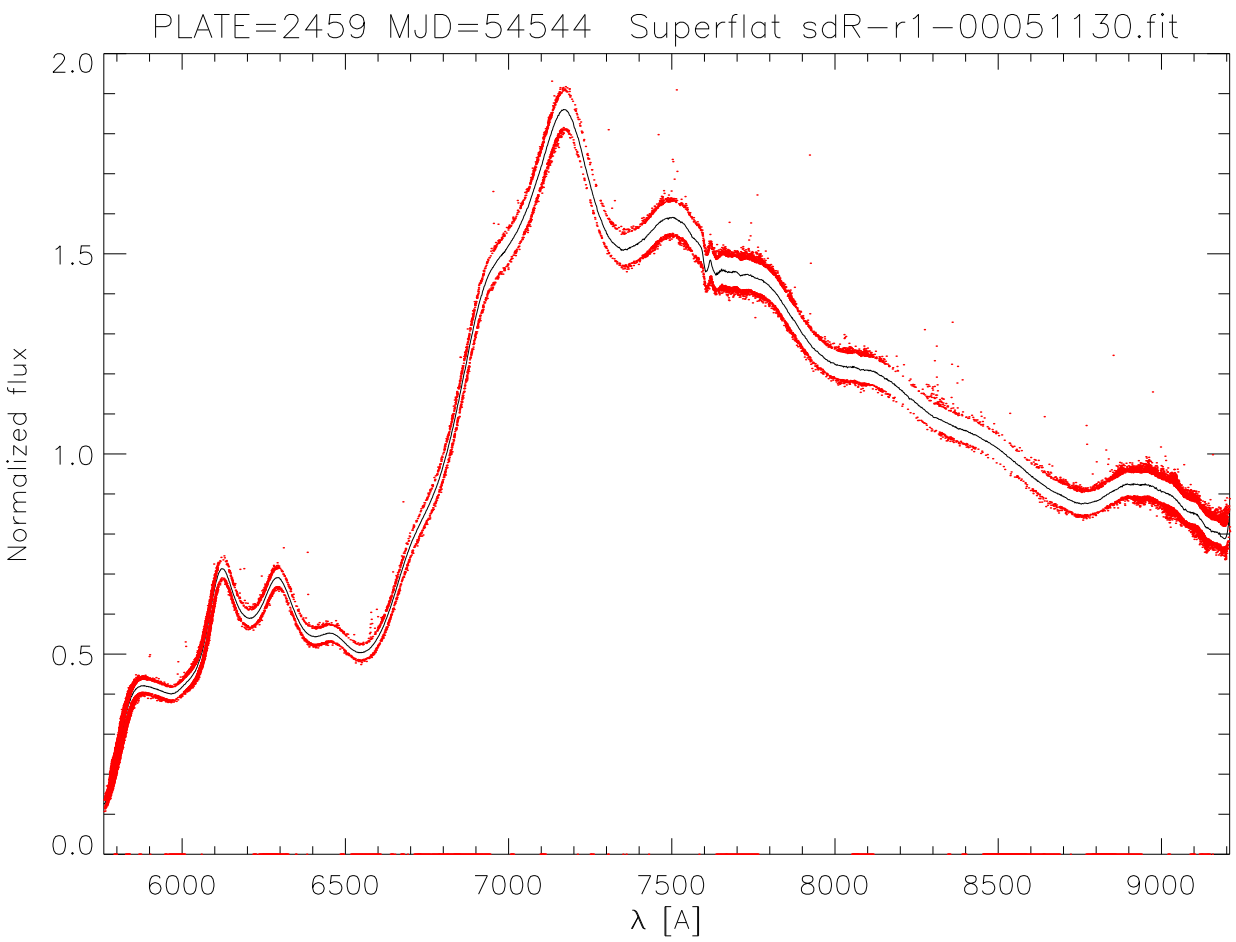

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

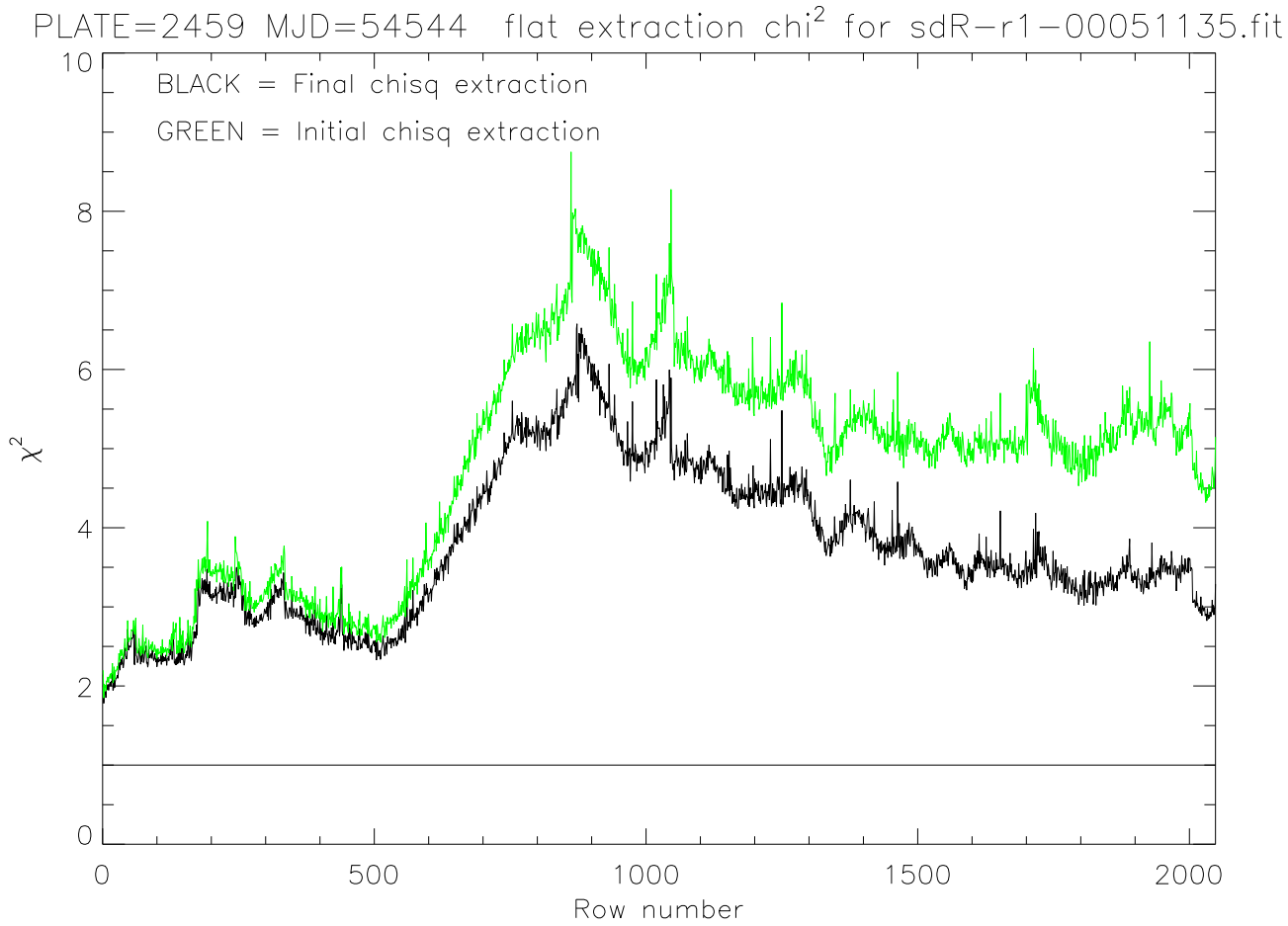

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

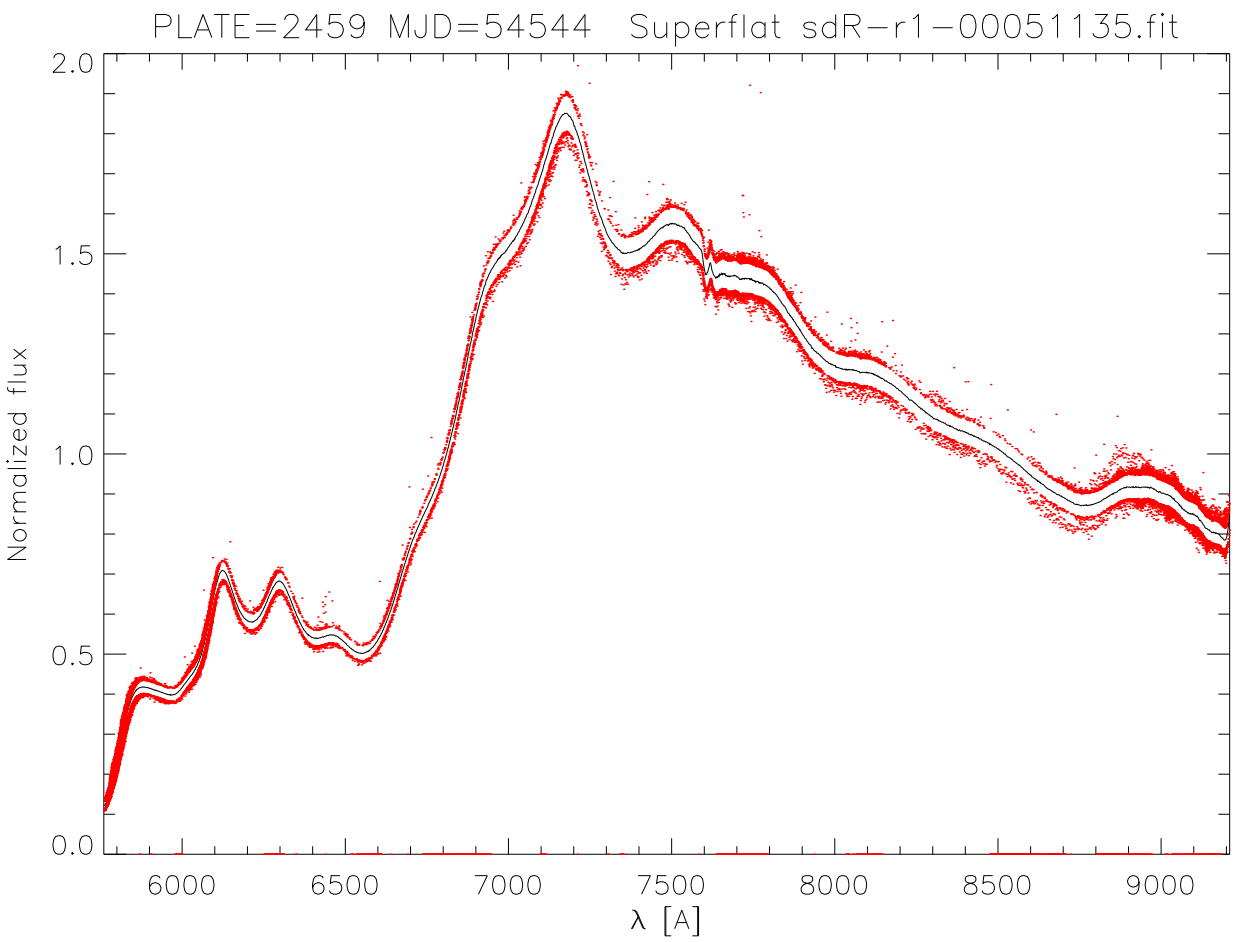

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

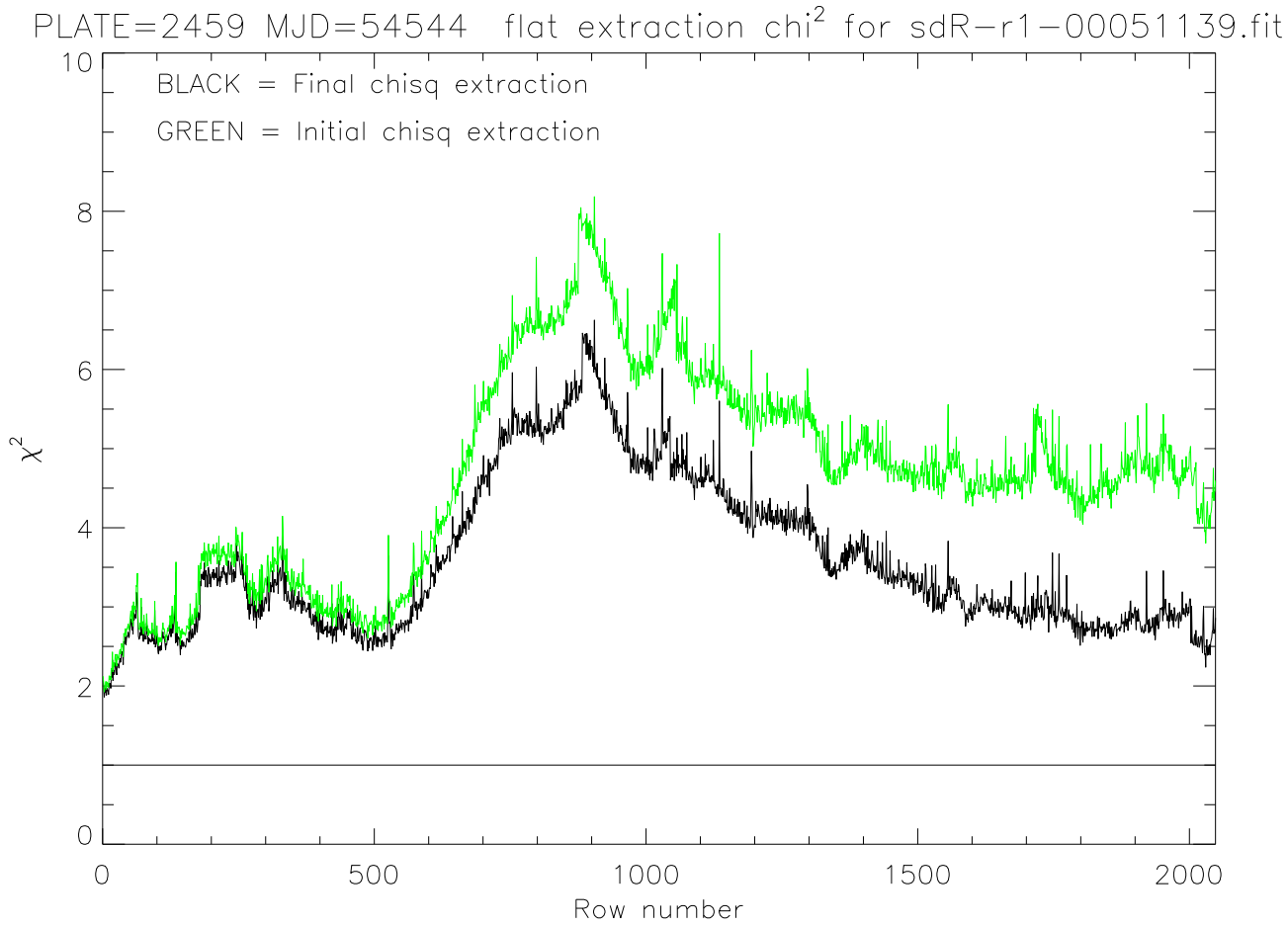

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

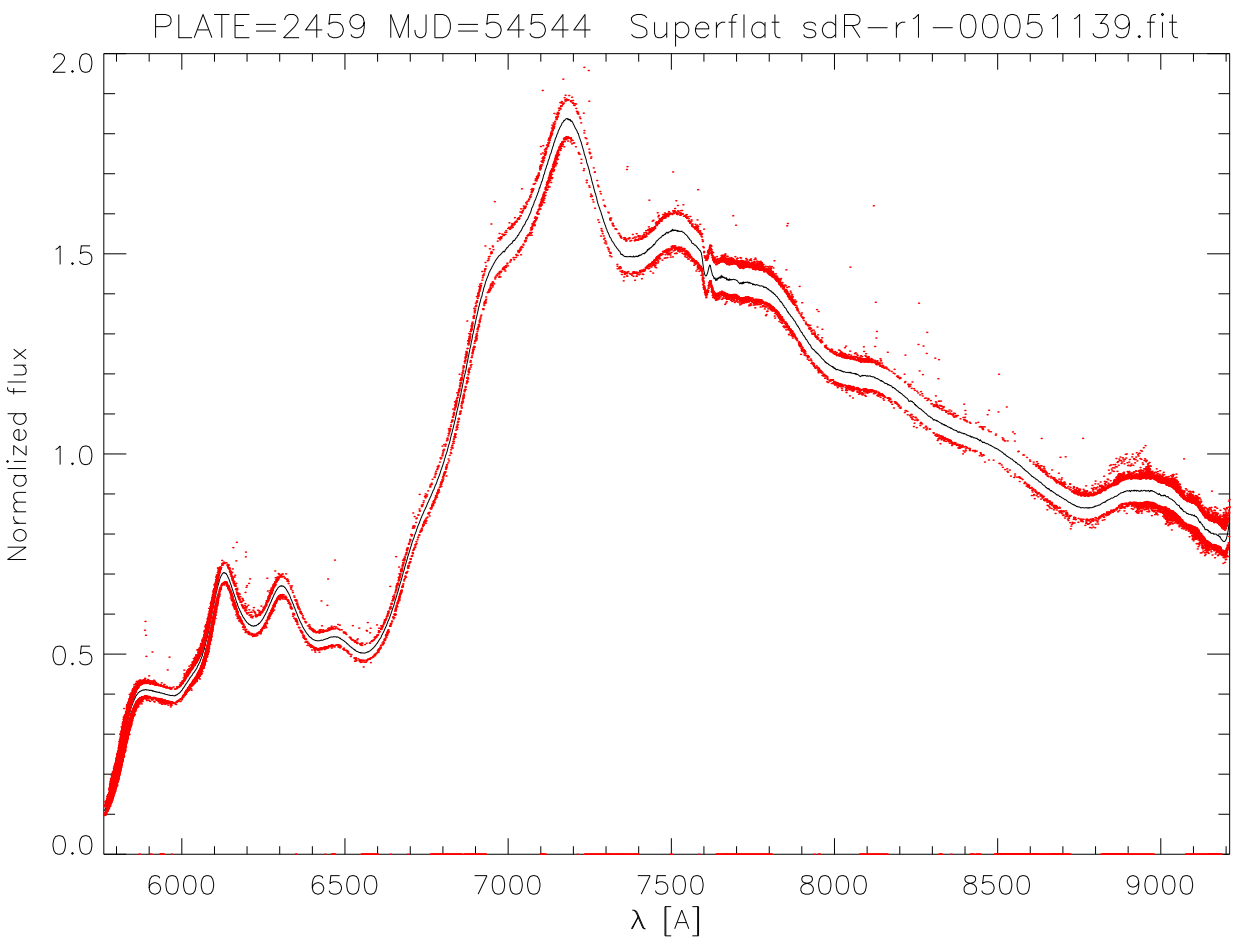

PLATE=2459 MJD=54544 flat extraction chi^2 for sdR−r1−00051130.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

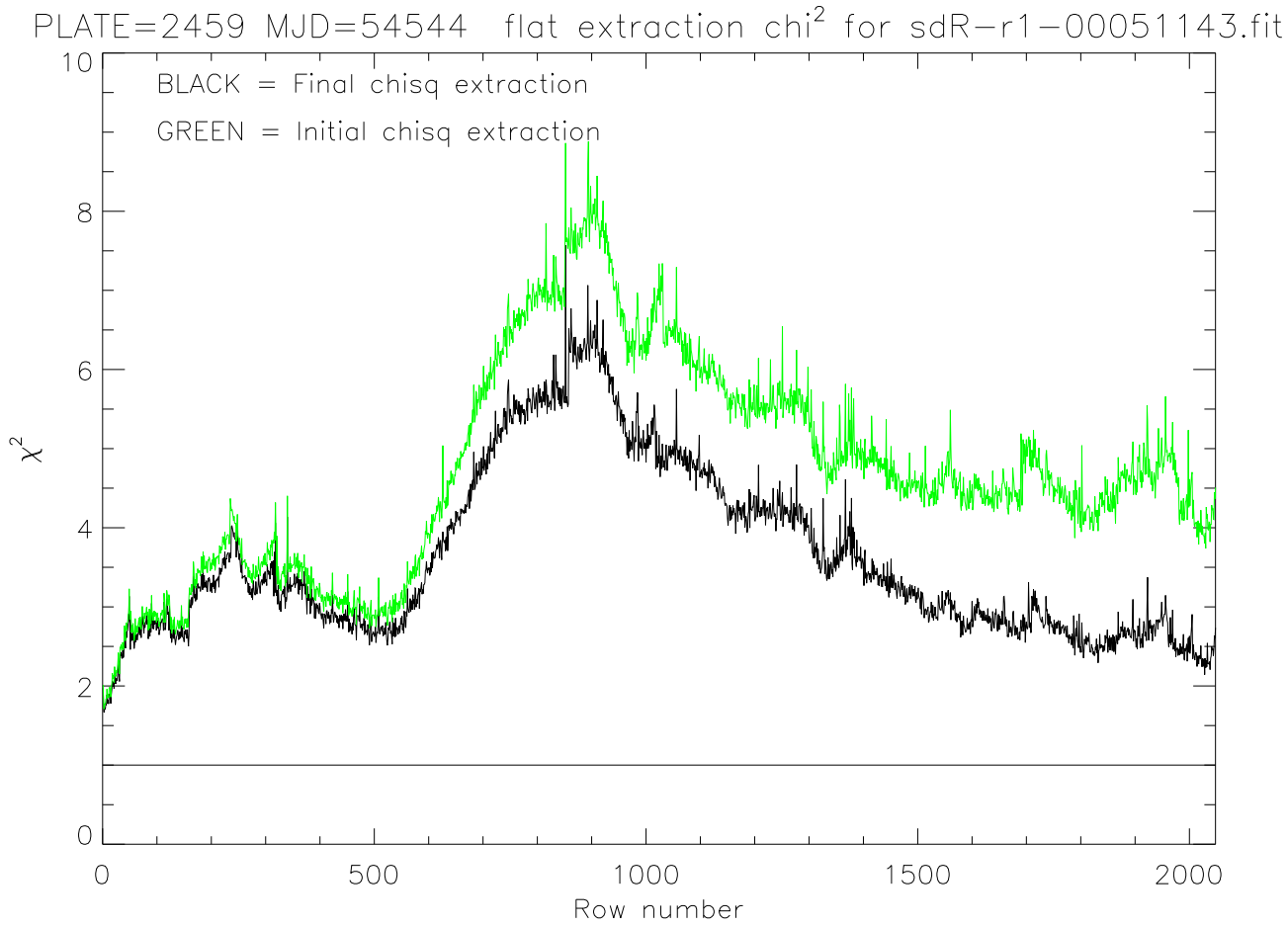

PLATE=2459 MJD=54544 Superflat sdR-r1-00051130.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

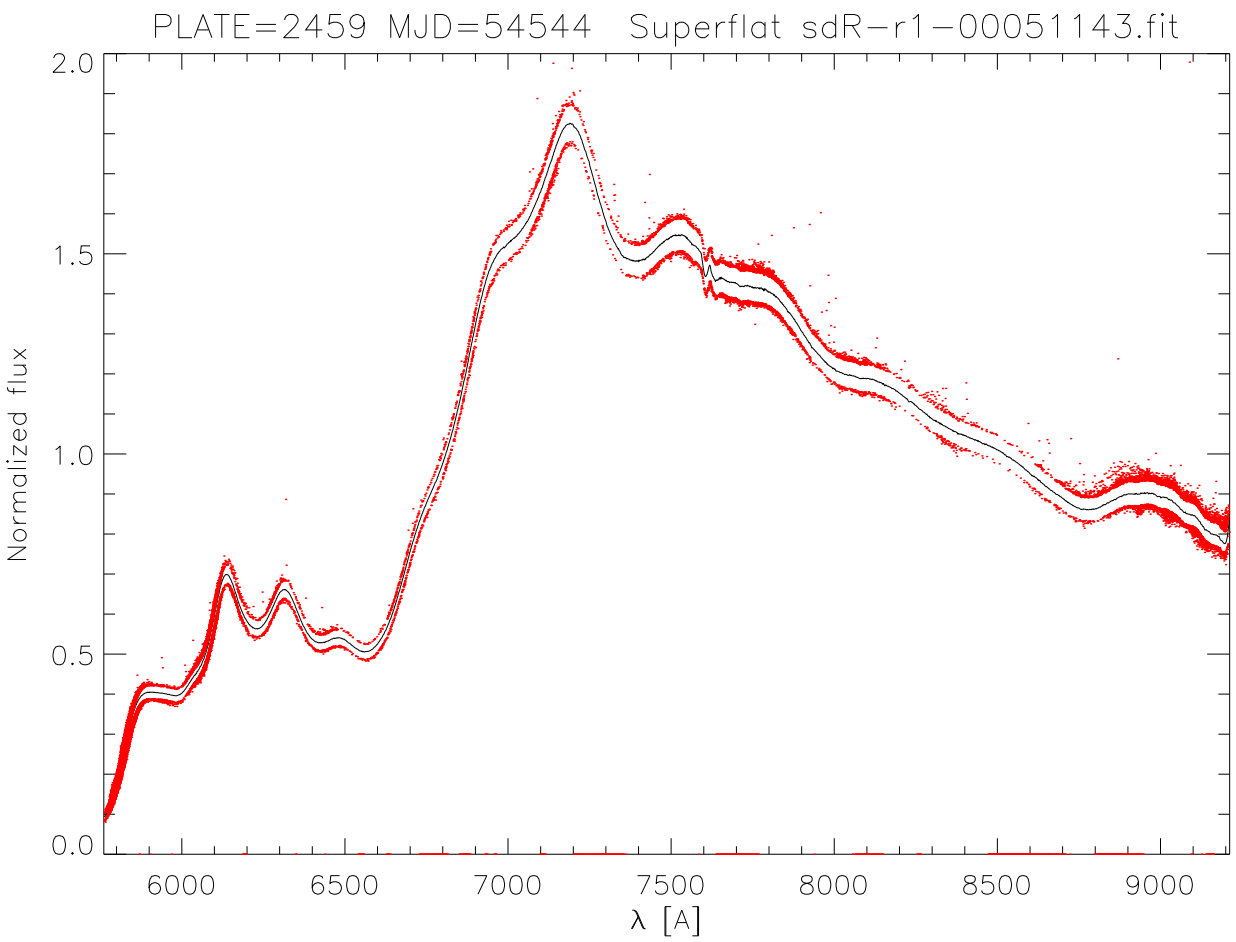

PLATE=2459 MJD=54544 flat extraction chi^2 for sdR−r1−00051135.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

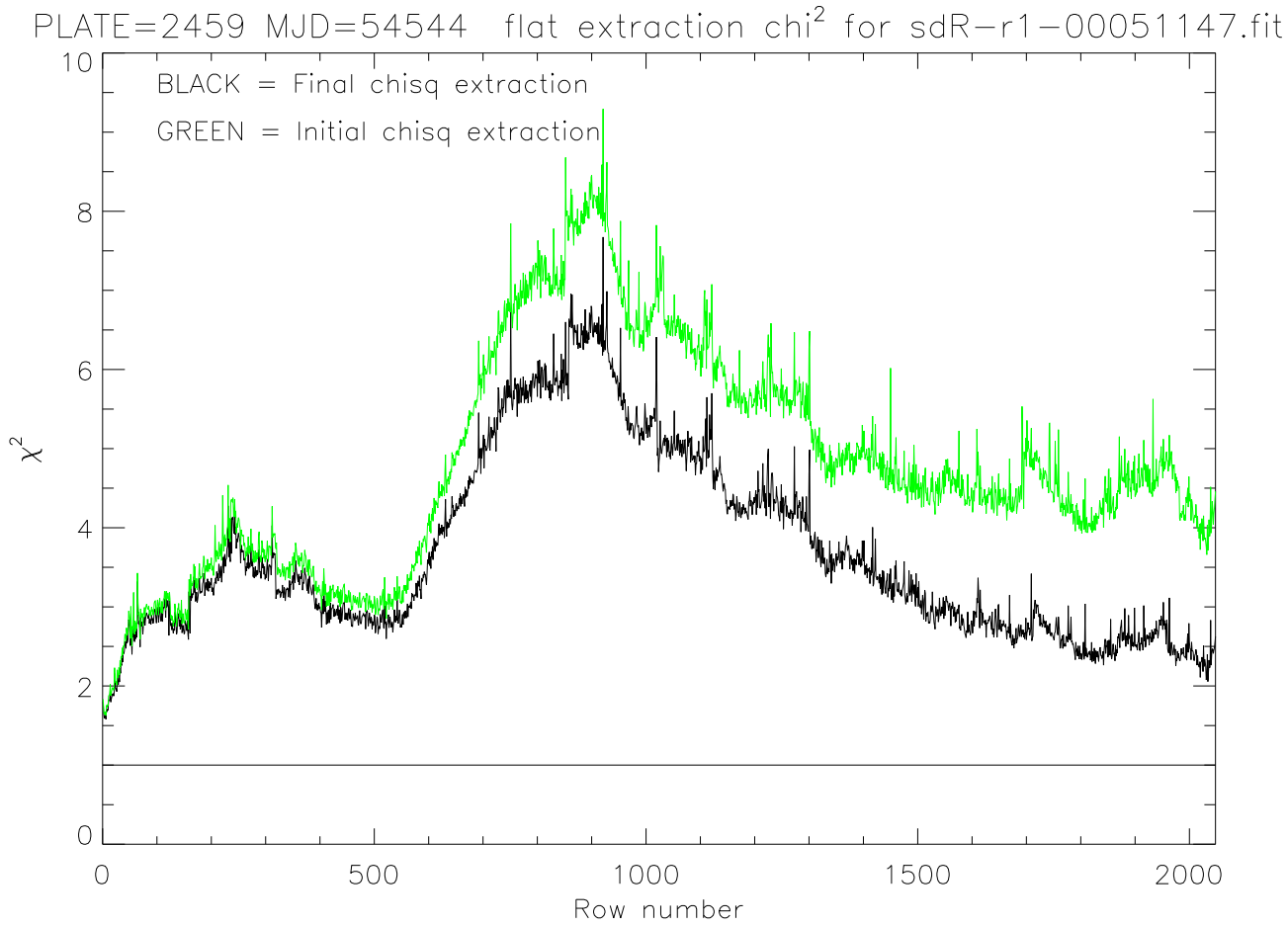

PLATE=2459 MJD=54544 Superflat sdR-r1-00051135.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

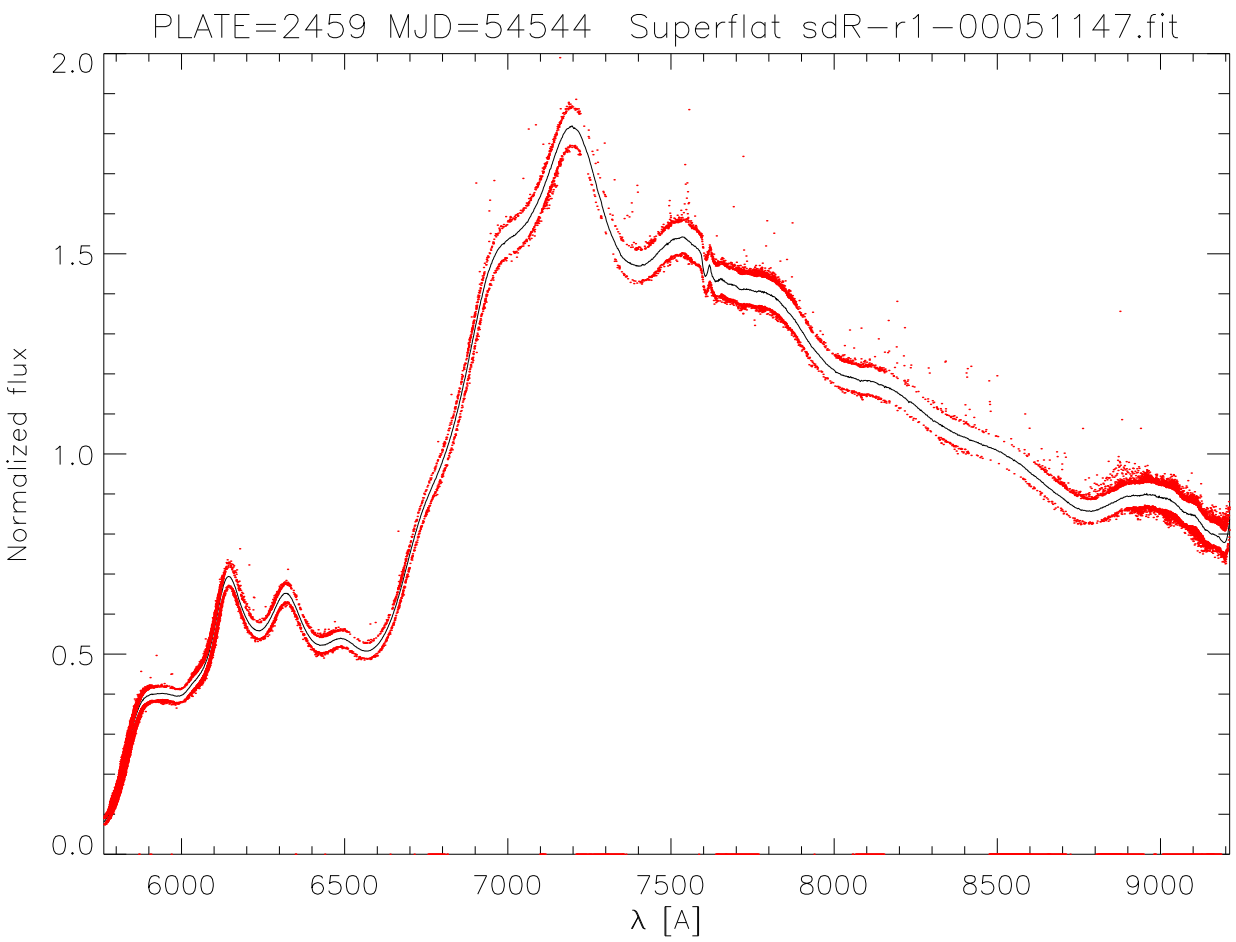

PLATE=2459 MJD=54544 flat extraction chi^2 for sdR−r1−00051139.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

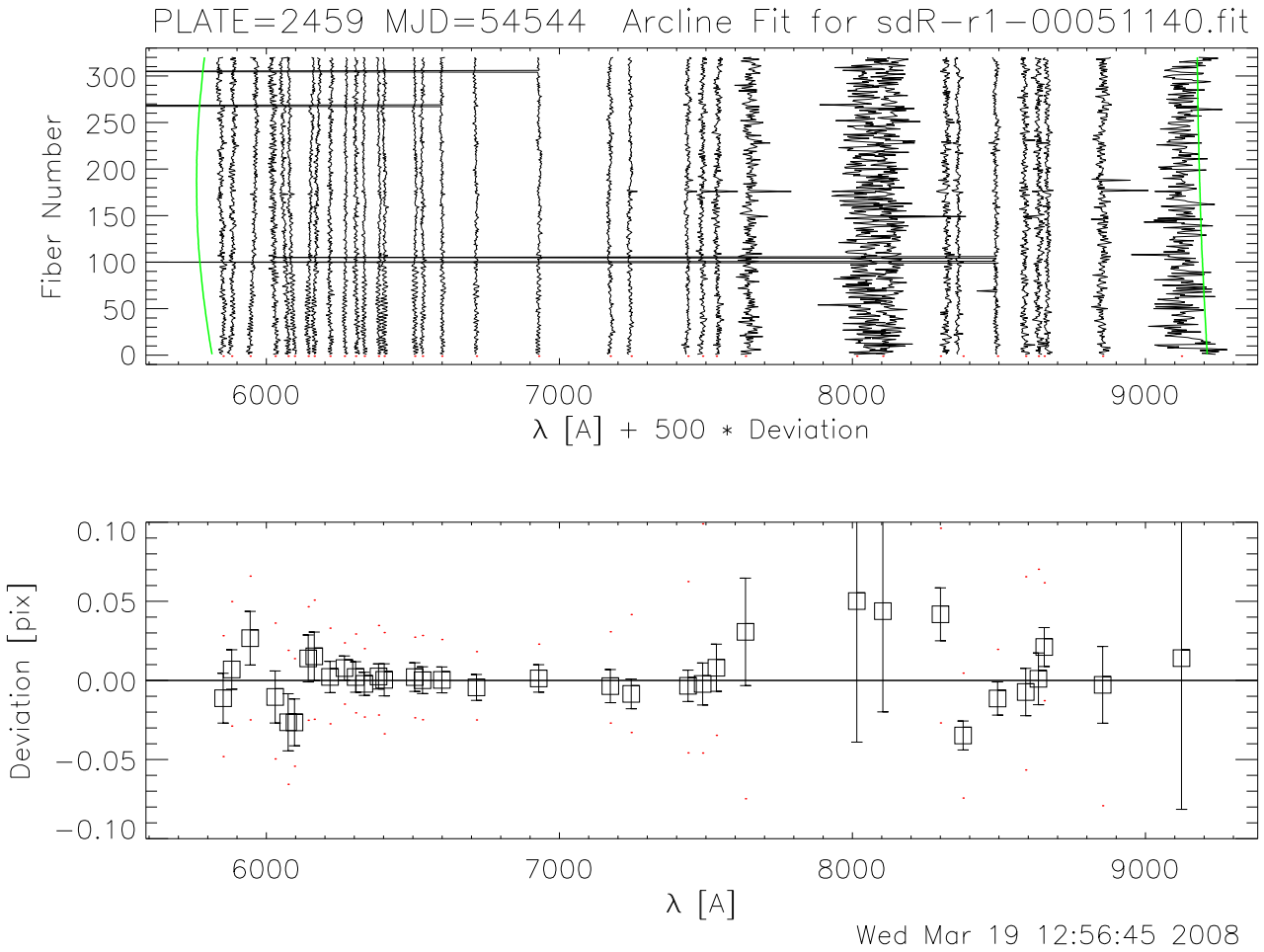

PLATE=2459 MJD=54544 Superflat sdR-r1-00051139.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

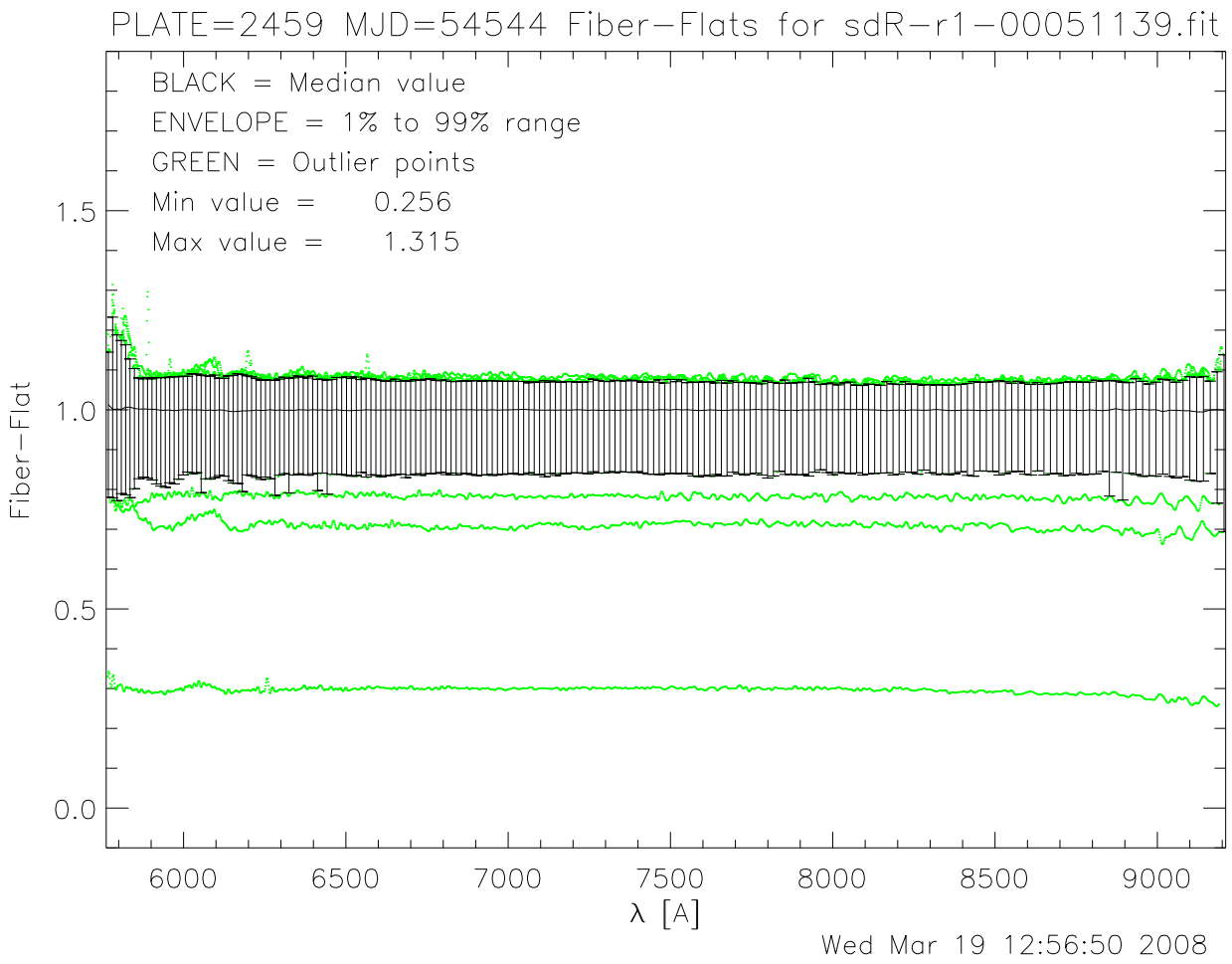

PLATE=2459 MJD=54544 flat extraction chi^2 for sdR−r1−00051143.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

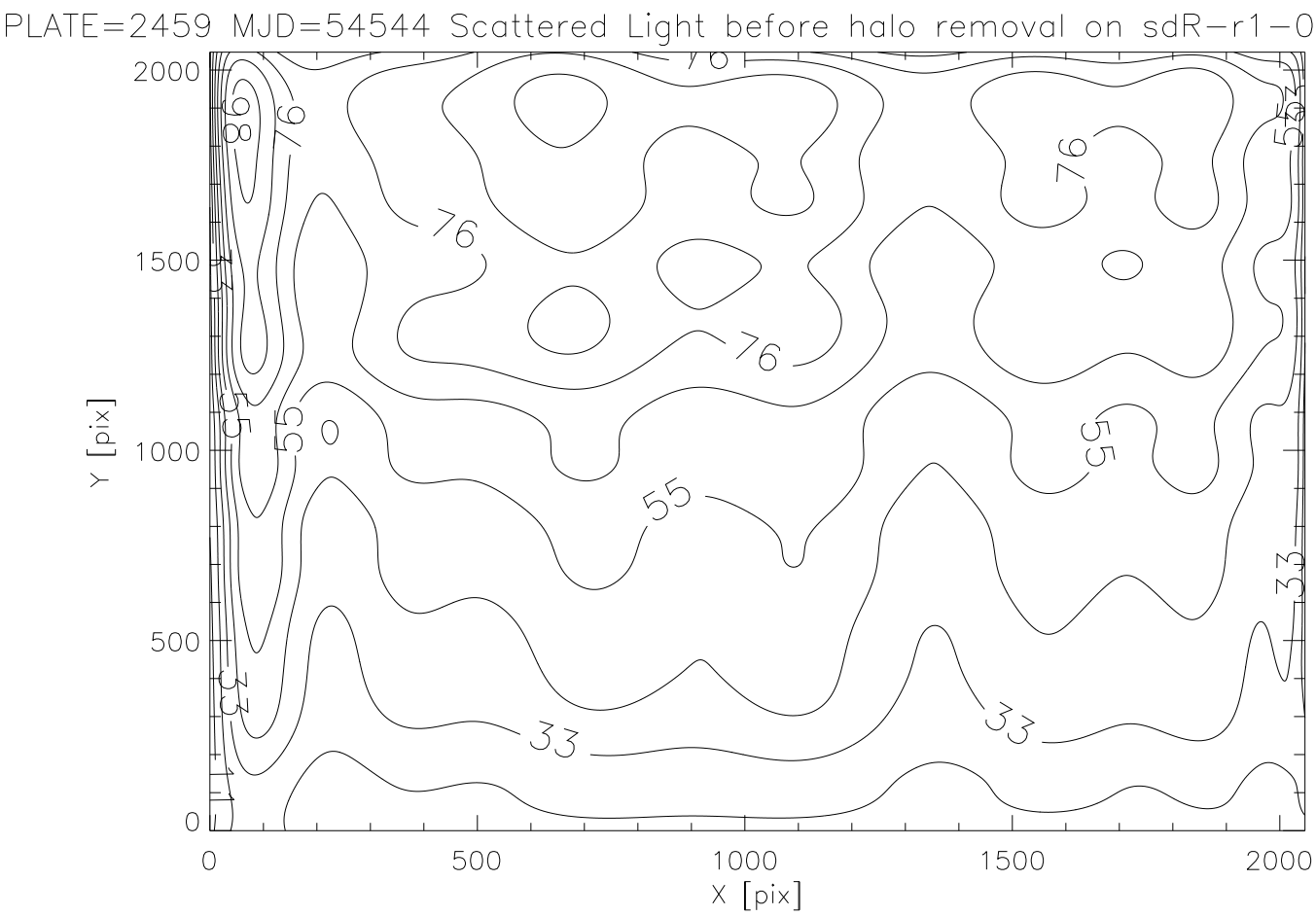

PLATE=2459 MJD=54544 Superflat sdR-r1-00051143.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

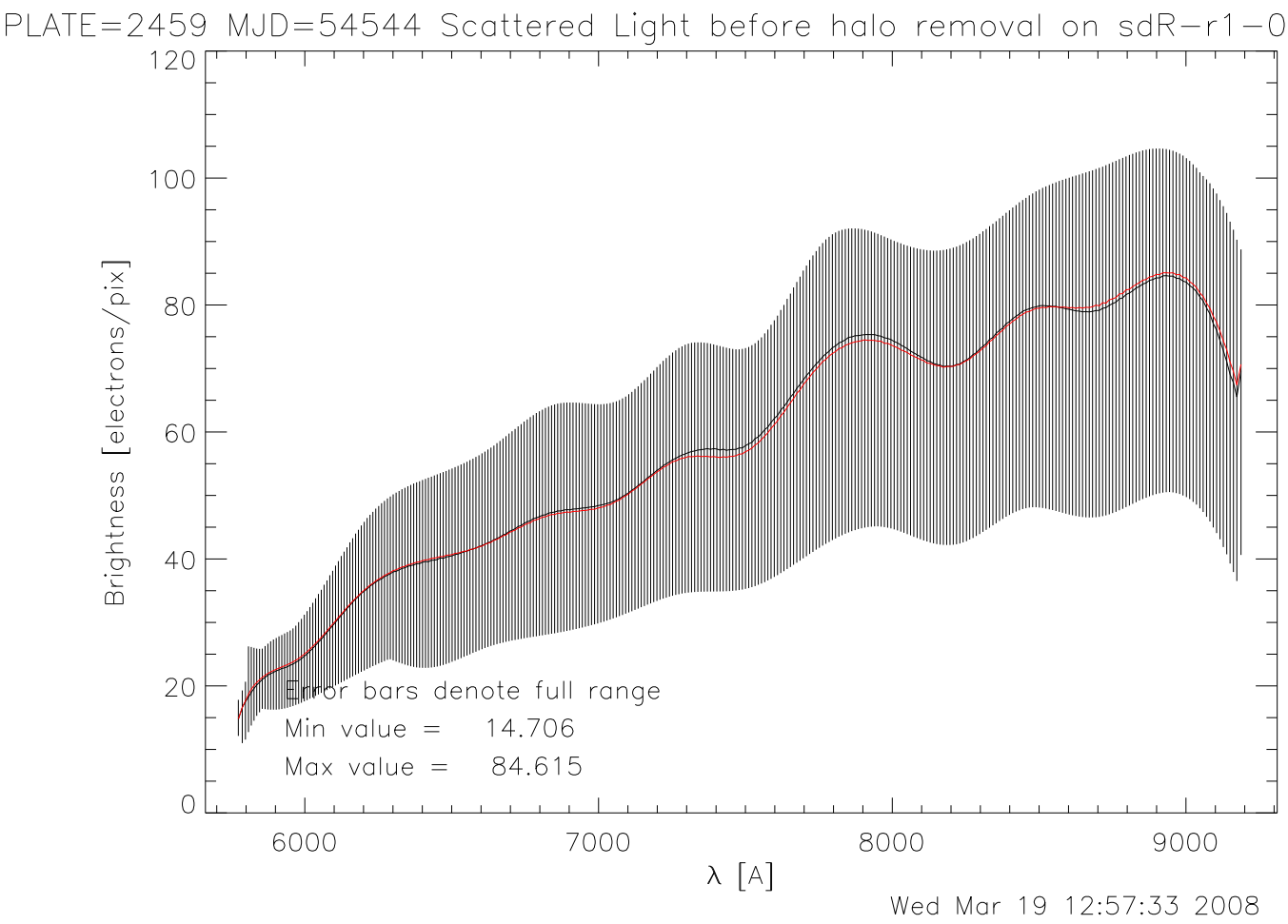

PLATE=2459 MJD=54544 flat extraction chi^2 for sdR−r1−00051147.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

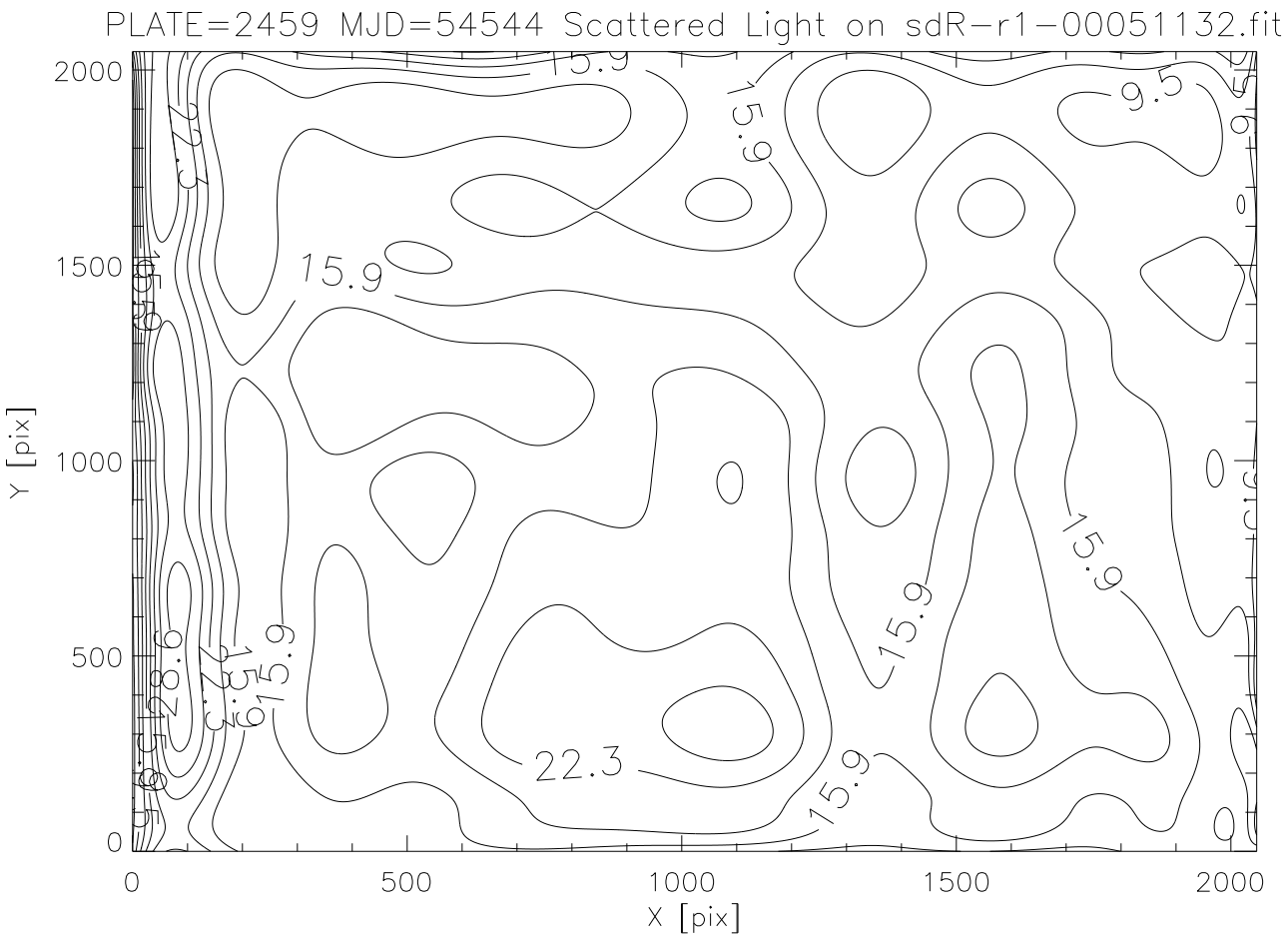

PLATE=2459 MJD=54544 Superflat sdR-r1-00051147.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

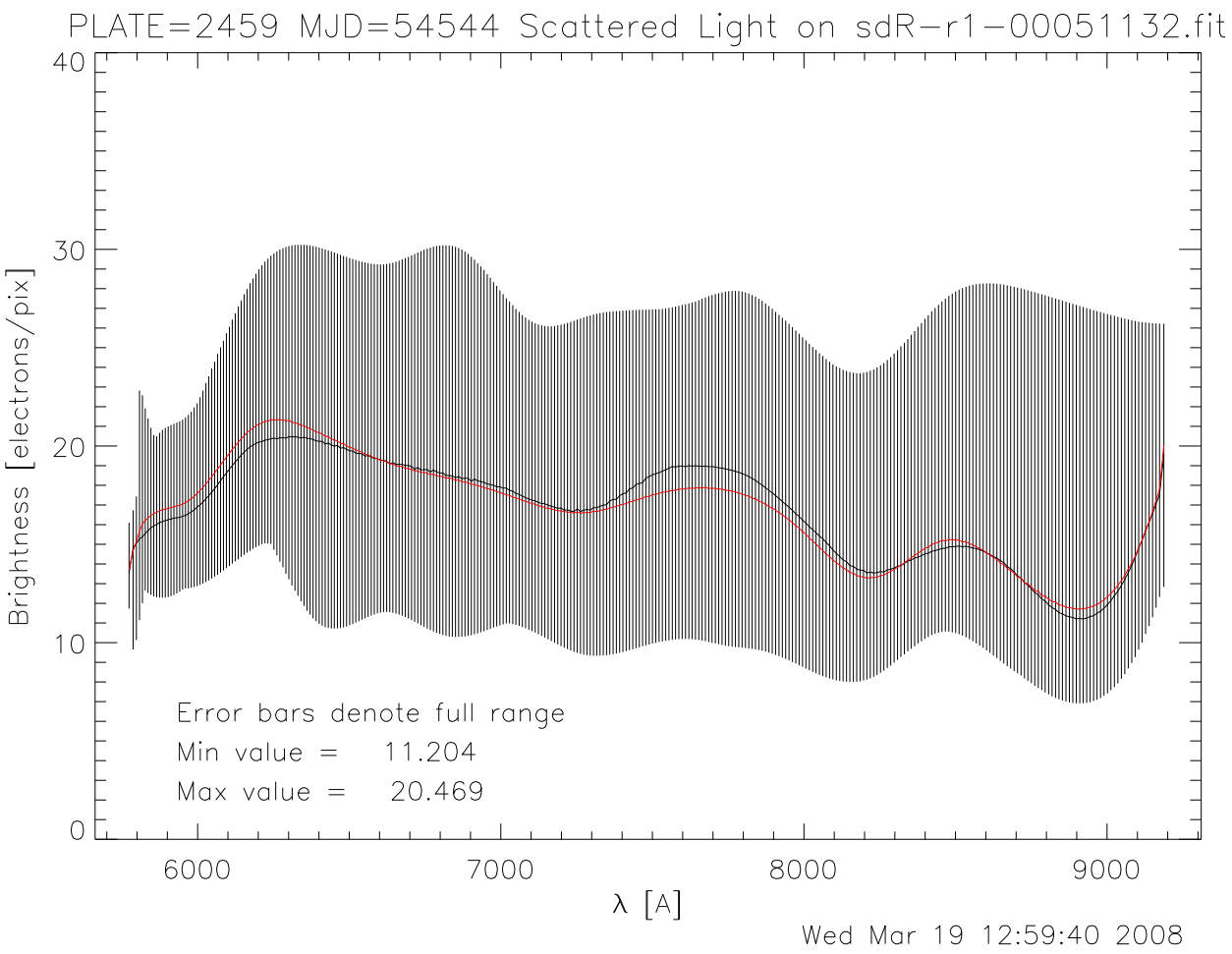

PLATE=2459 MJD=54544 Arcline Fit for sdR-r1-00051140.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Wed Mar 19 12:56:45 2008

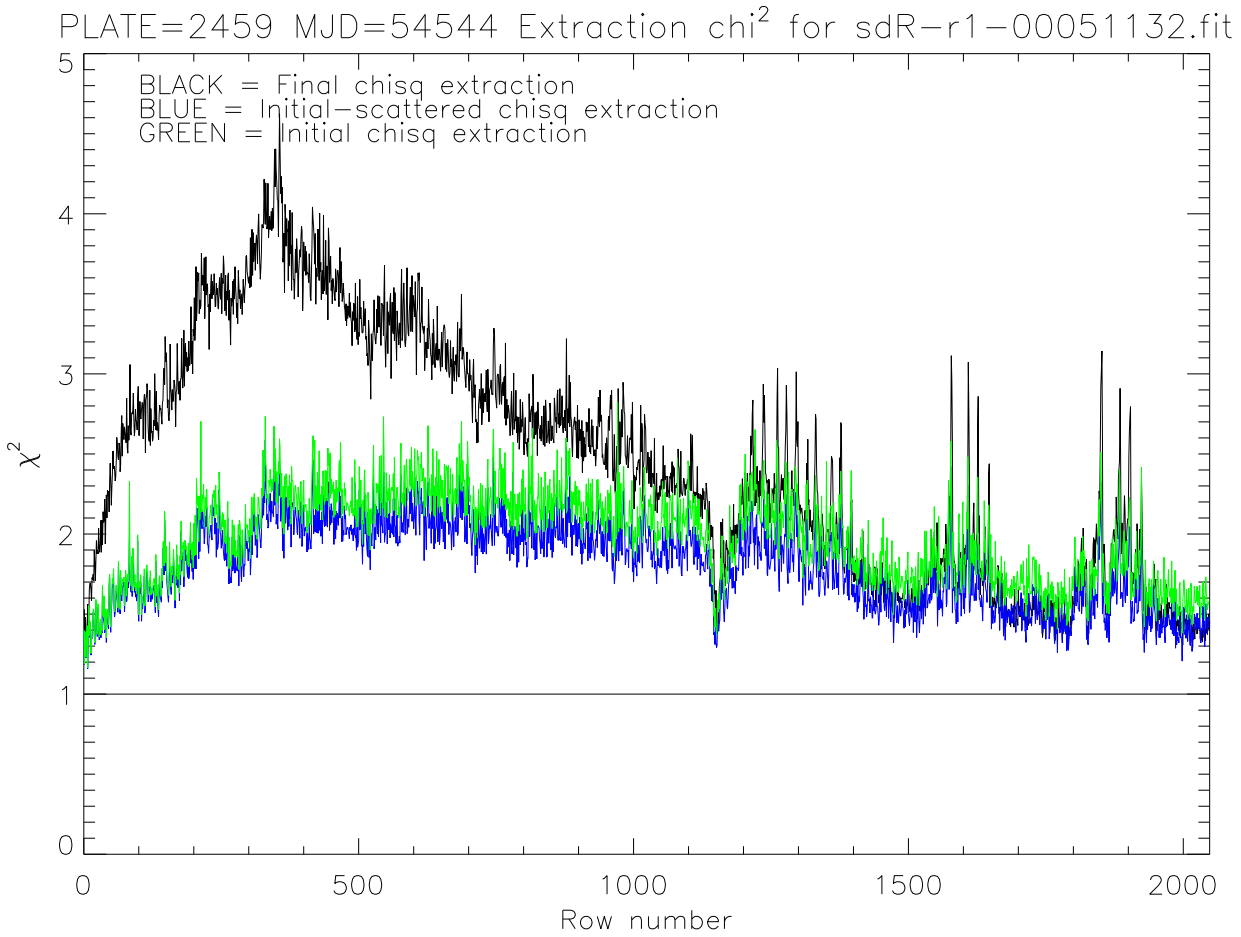

PLATE=2459 MJD=54544 Fiber−Flats for sdR−r1−00051139.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.256
Max value = 1.315
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 19 12:56:50 2008

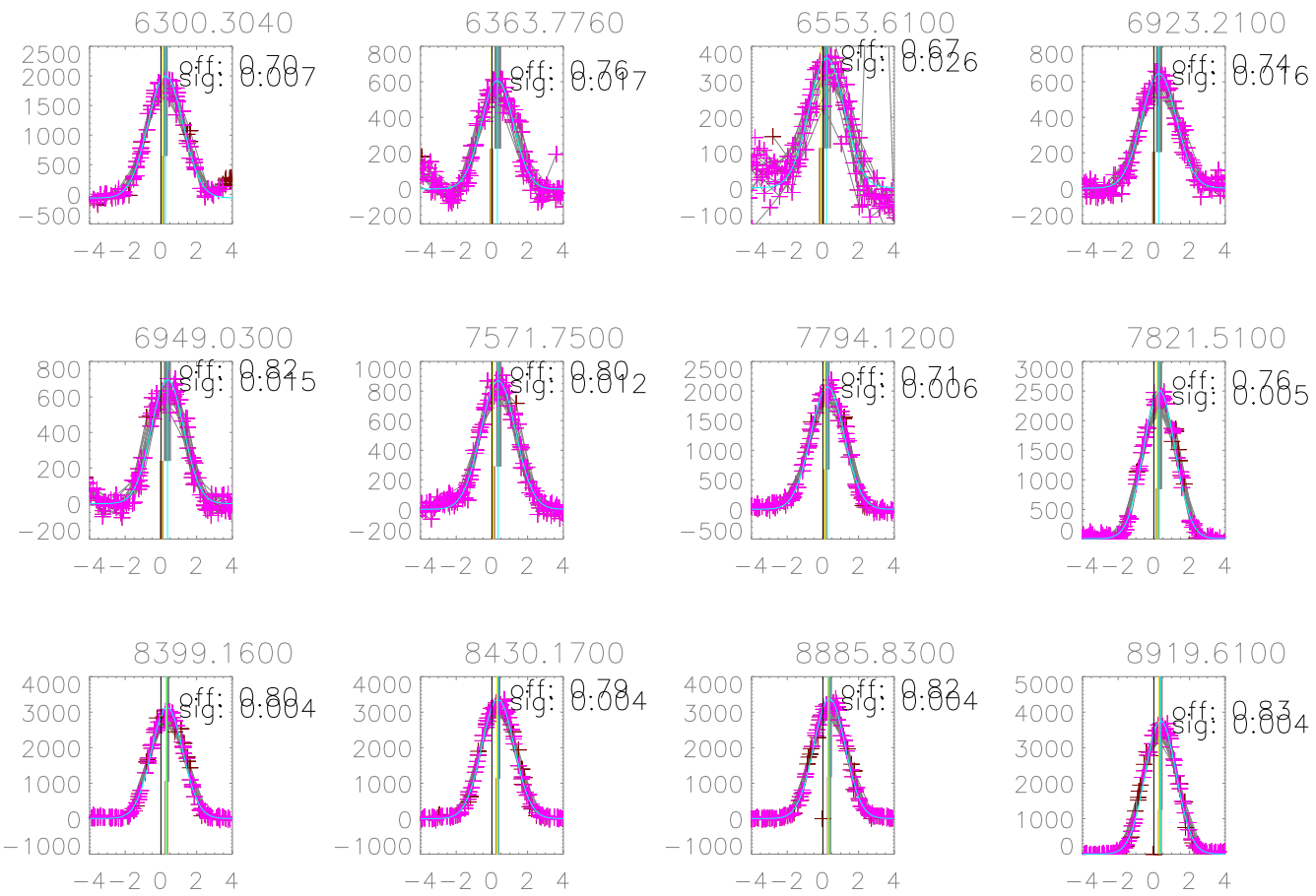

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR−r1−00051132.fi
Y [pix]
X [pix]
0
500
1000
1500
2000
76
55
33
0

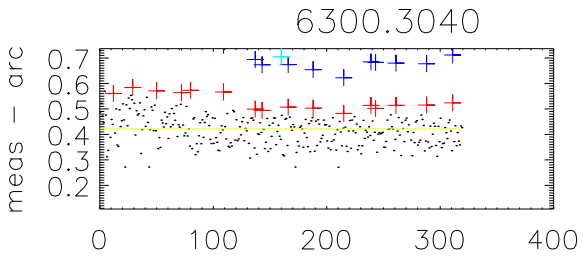

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-r1-00051132.fi
Brightness [electrons/pix]
120
100
80
60
40
20
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 14.706
Max value = 84.615
Wed Mar 19 12:57:33 2008

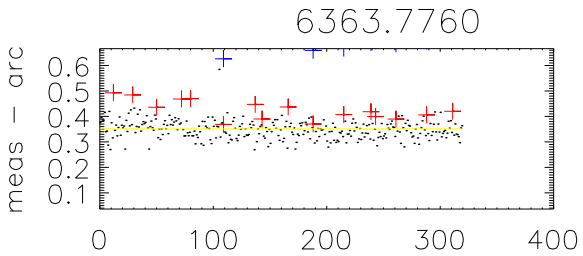

PLATE=2459 MJD=54544 Scattered Light on sdR-r1-00051132.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
15.9
9.5
22.3
28.6

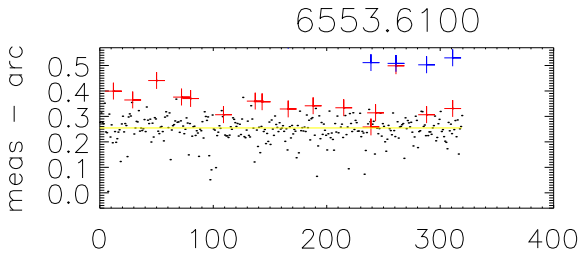

PLATE=2459 MJD=54544 Scattered Light on sdR-r1-00051132.fit
Brightness [electrons/pix]
40
30
20
10
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 11.204
Max value = 20.469
Wed Mar 19 12:59:40 2008

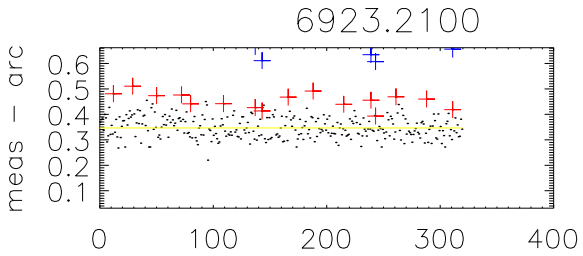

PLATE=2459 MJD=54544 Extraction chi^2 for sdR−r1−00051132.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

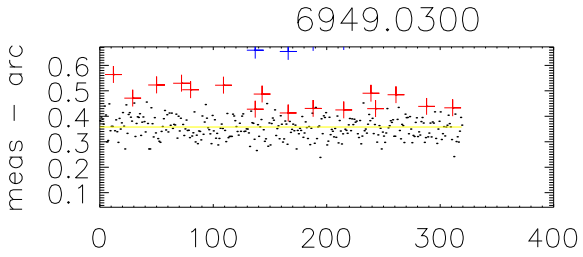

6300.3040
off: 0.70
sig: 0.007
6363.7760
off: 0.76
sig: 0.017
6553.6100
off: 0.67
sig: 0.026
6923.2100
off: 0.74
sig: 0.016
6949.0300
off: 0.82
sig: 0.015
7571.7500
off: 0.80
sig: 0.012
7794.1200
off: 0.71
sig: 0.006
7821.5100
off: 0.76
sig: 0.005
8399.1600
off: 0.80
sig: 0.004
8430.1700
off: 0.78
sig: 0.004
8885.8300
off: 0.82
sig: 0.004
8919.6100
off: 0.83
sig: 0.004

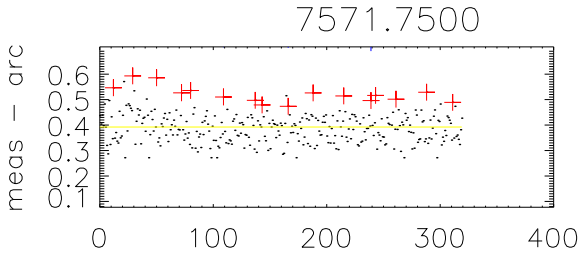

6300.3040
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

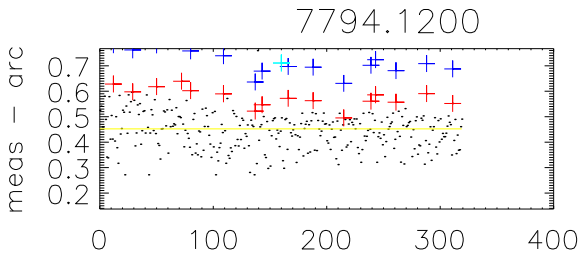

6363.7760
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

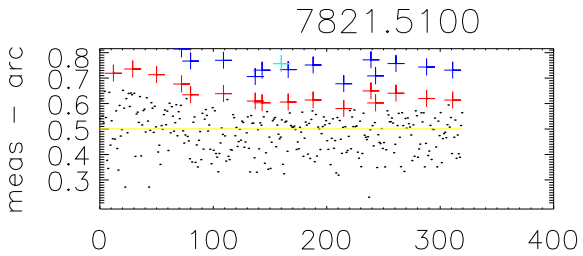

6553.6100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

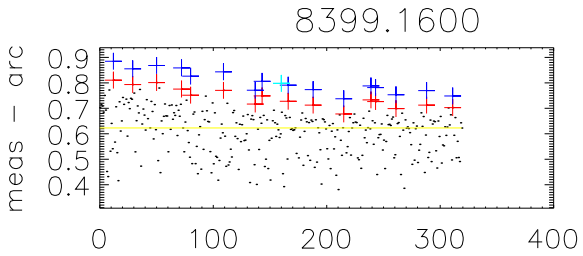

6923.2100
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

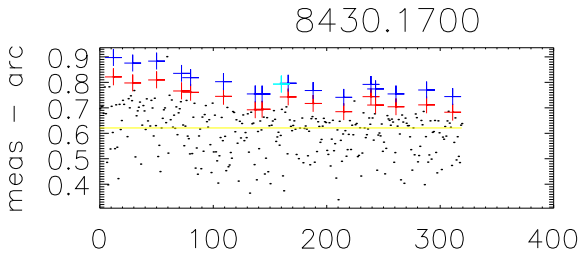

6949.0300
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

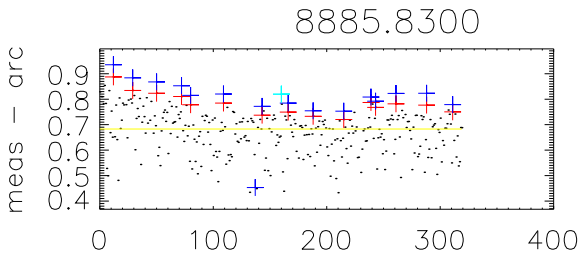

7571.7500
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

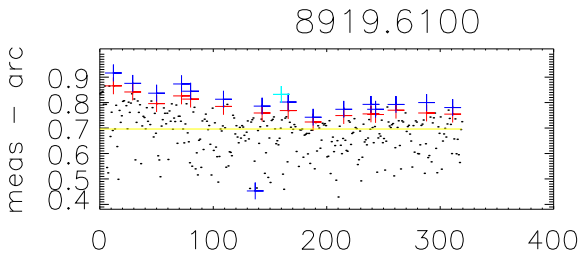

7794.1200
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

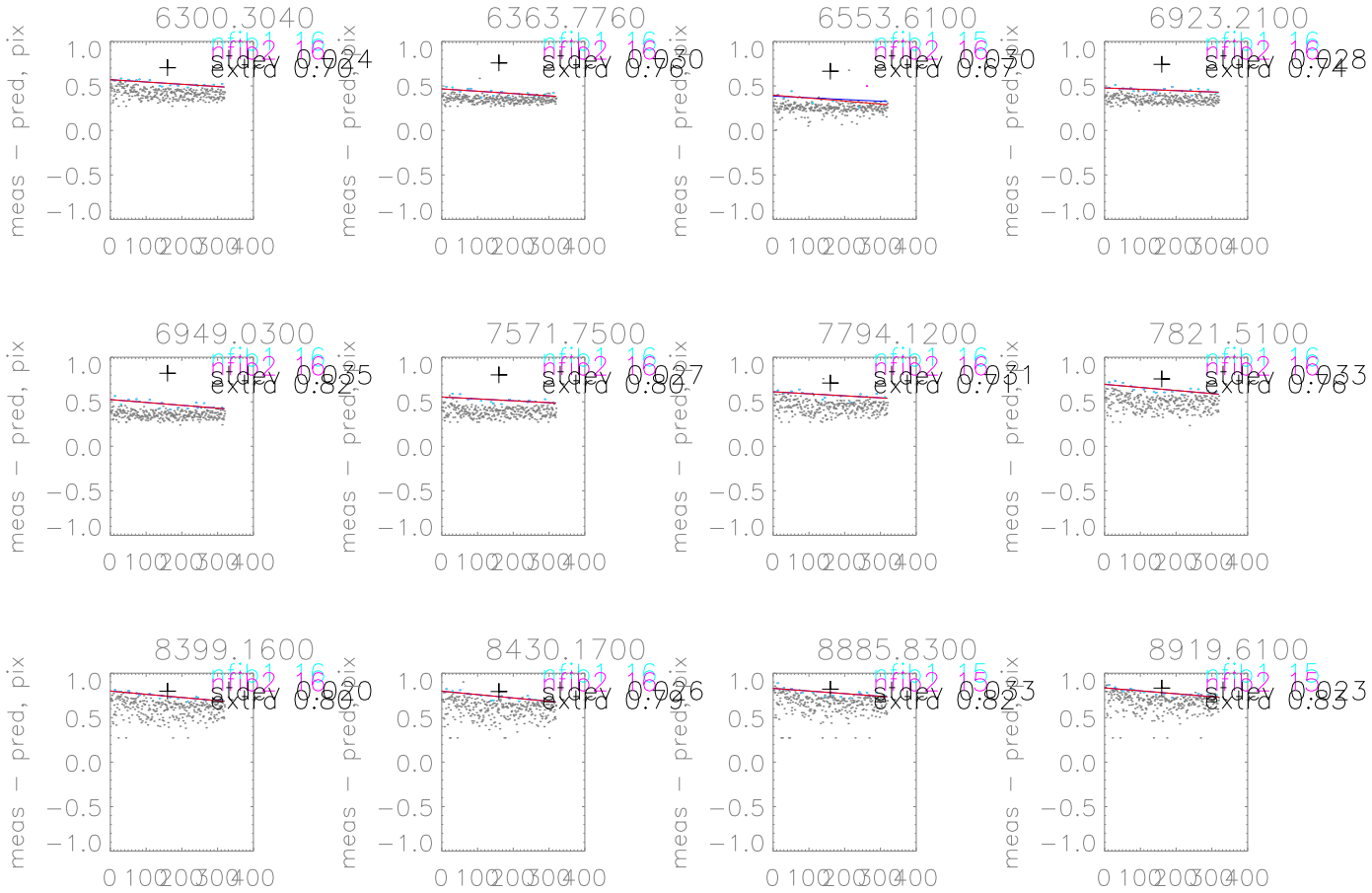

7821.5100
meas − arc
0.8
0.7
0.6
0.5
0.4
0.3
0
100
200
300
400

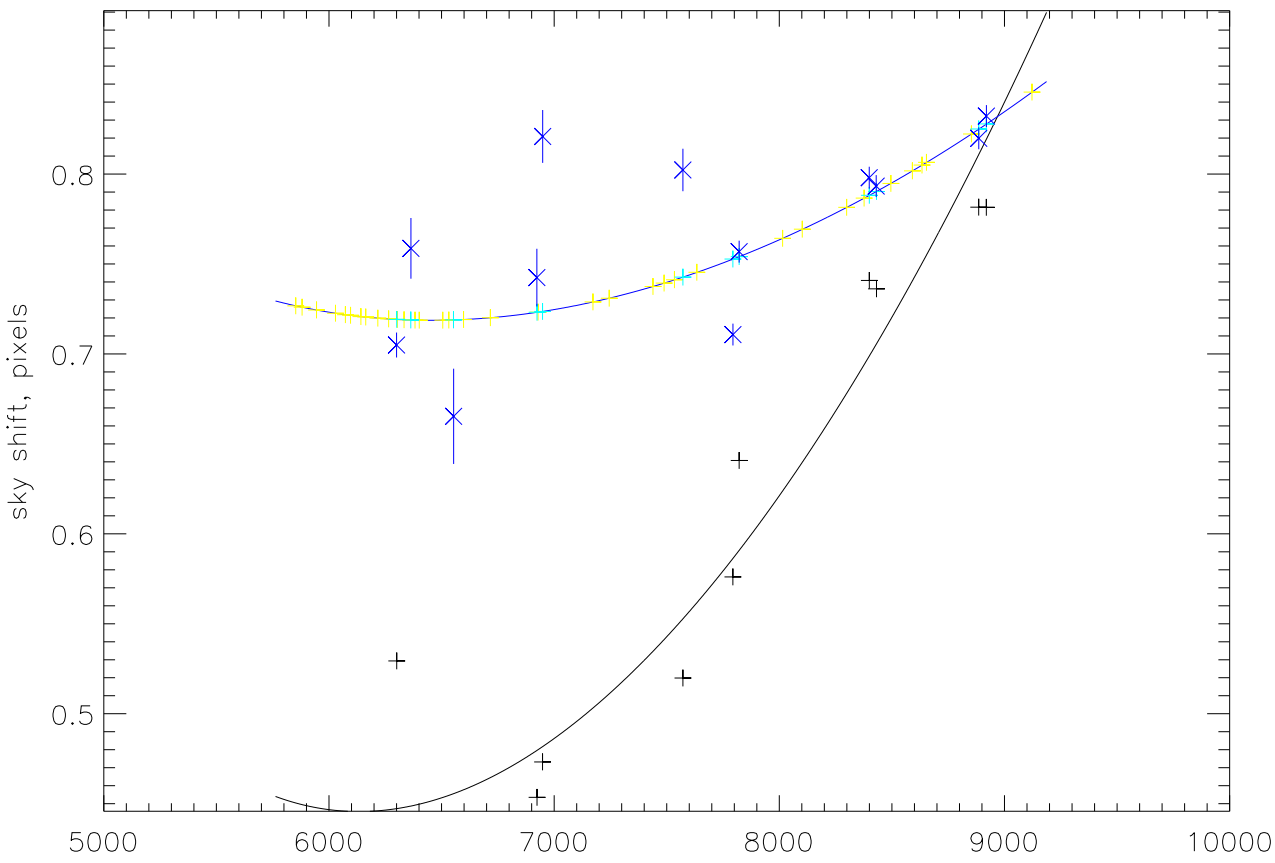

8399.1600
meas − arc
0.9
0.8
0.7
0.6
0.5
0.4
0
100
200
300
400

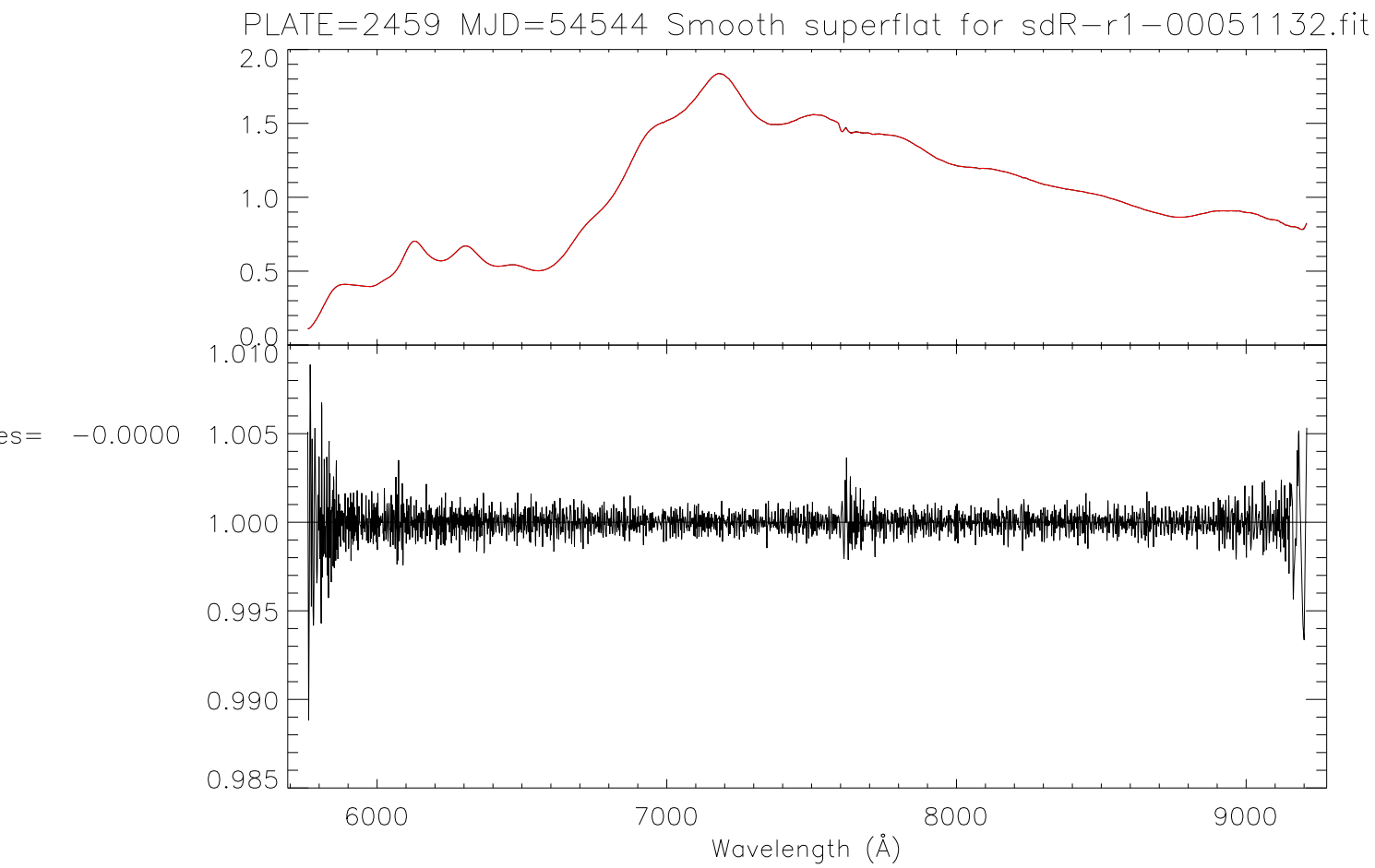

8430.1700
meas − arc
0.9
0.8
0.7
0.6
0.5
0.4
0
100
200
300
400

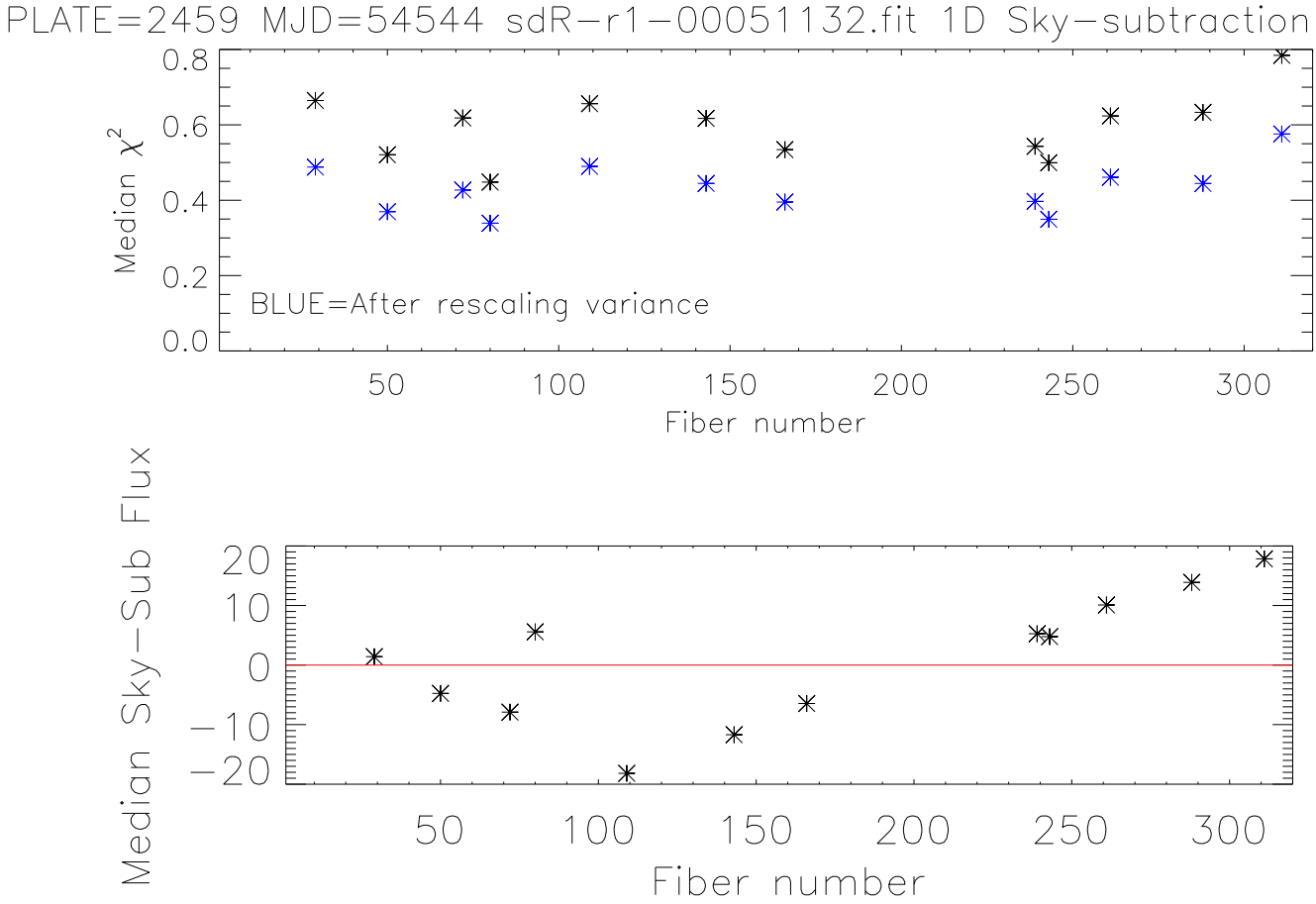

8885.8300
meas − arc
0.9
0.8
0.7
0.6
0.5
0.4
0
100
200
300
400

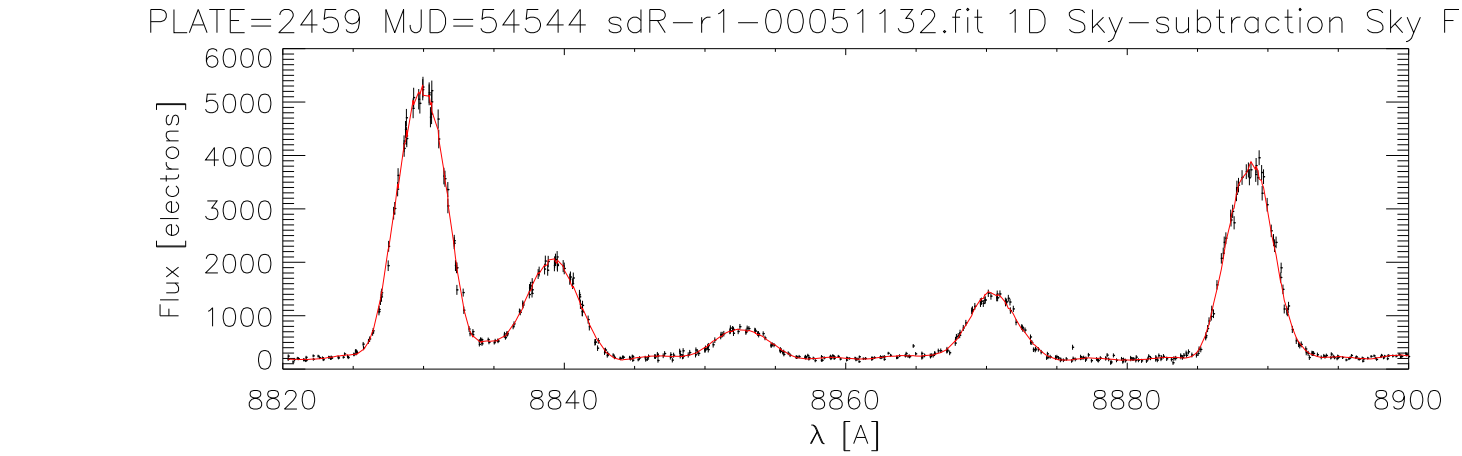

8919.6100
meas − arc
0.9
0.8
0.7
0.6
0.5
0.4
0
100
200
300
400

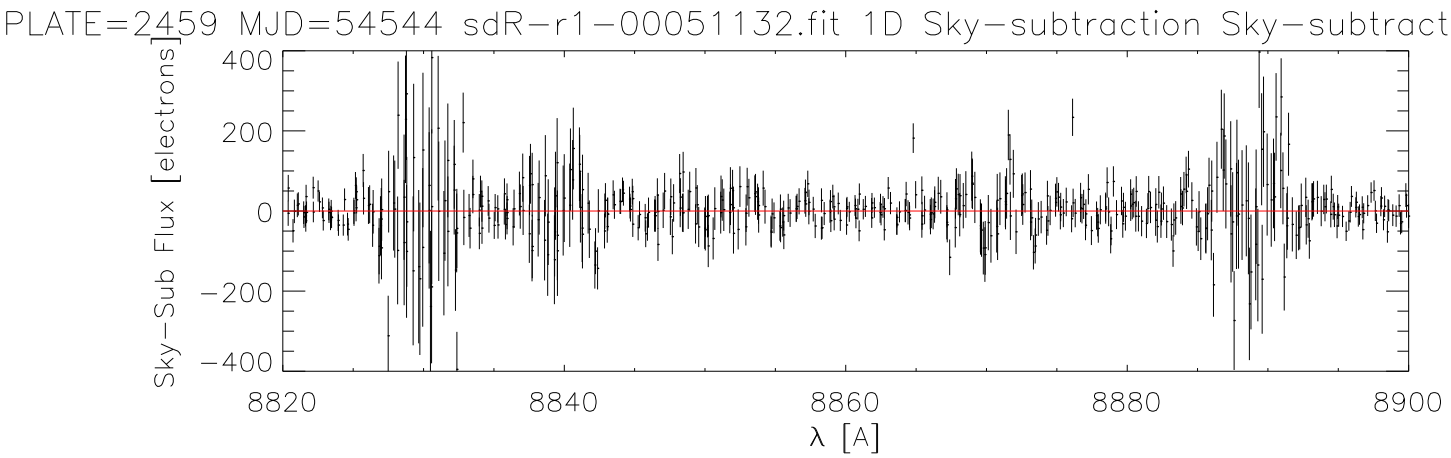

6300.3040
stdev 0.924
extra 0.76
6363.7760
stdev 0.930
extra 0.76
6553.6100
stdev 0.930
extra 0.87
6923.2100
stdev 0.928
extra 0.74
6949.0300
stdev 0.935
extra 0.82
7571.7500
stdev 0.927
extra 0.80
7794.1200
stdev 0.931
extra 0.71
7821.5100
stdev 0.933
extra 0.76
8399.1600
stdev 0.920
extra 0.80
8430.1700
stdev 0.926
extra 0.79
8885.8300
stdev 0.933
extra 0.82
8919.6100
stdev 0.923
extra 0.83
meas − pred, pix
mfb1 16
mfb2 16
mfb1 15
mfb2 15

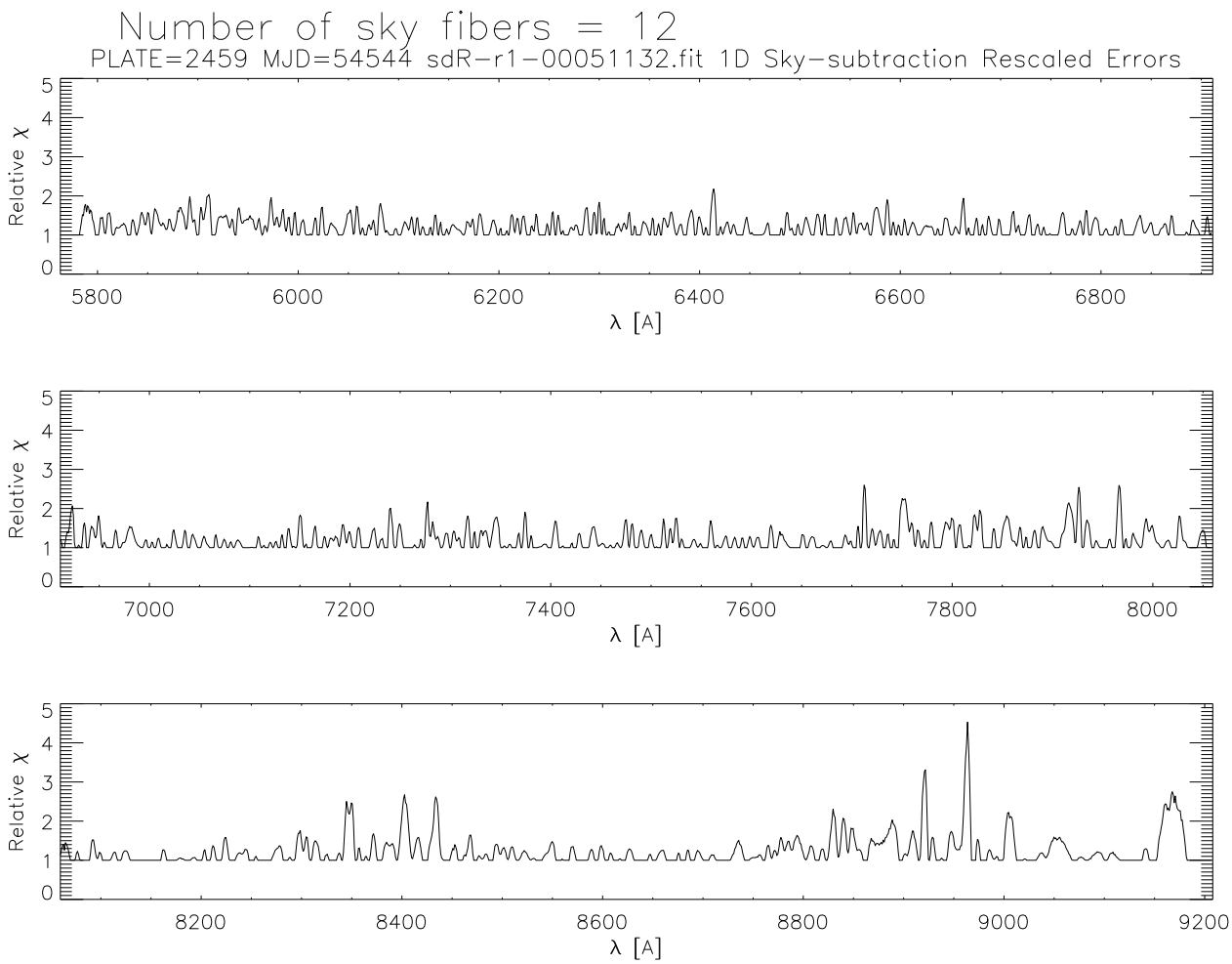

sky shift, pixels
0.8
0.7
0.6
0.5
5000
6000
7000
8000
9000
10000

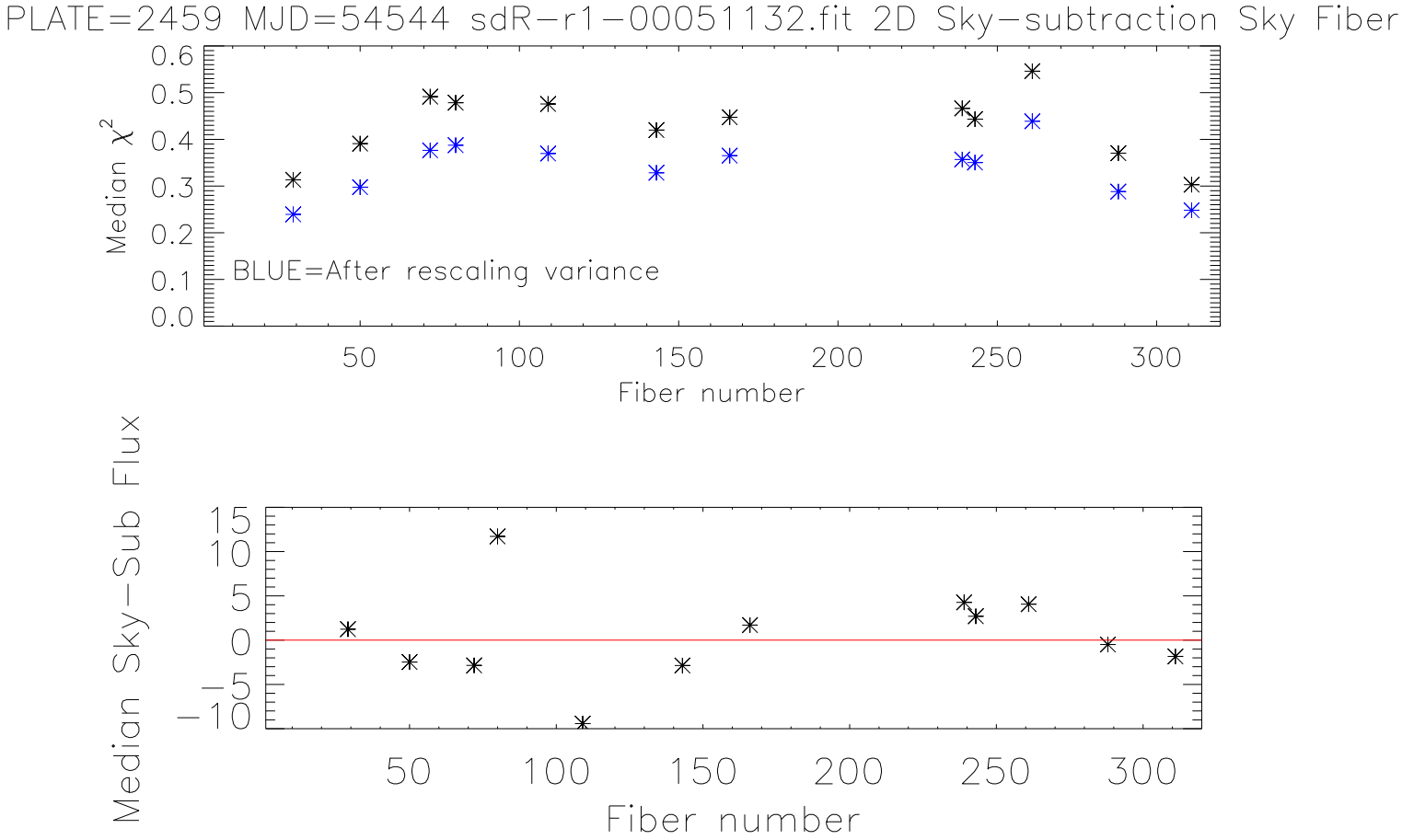

PLATE=2459 MJD=54544 Smooth superflat for sdR-r1-00051132.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

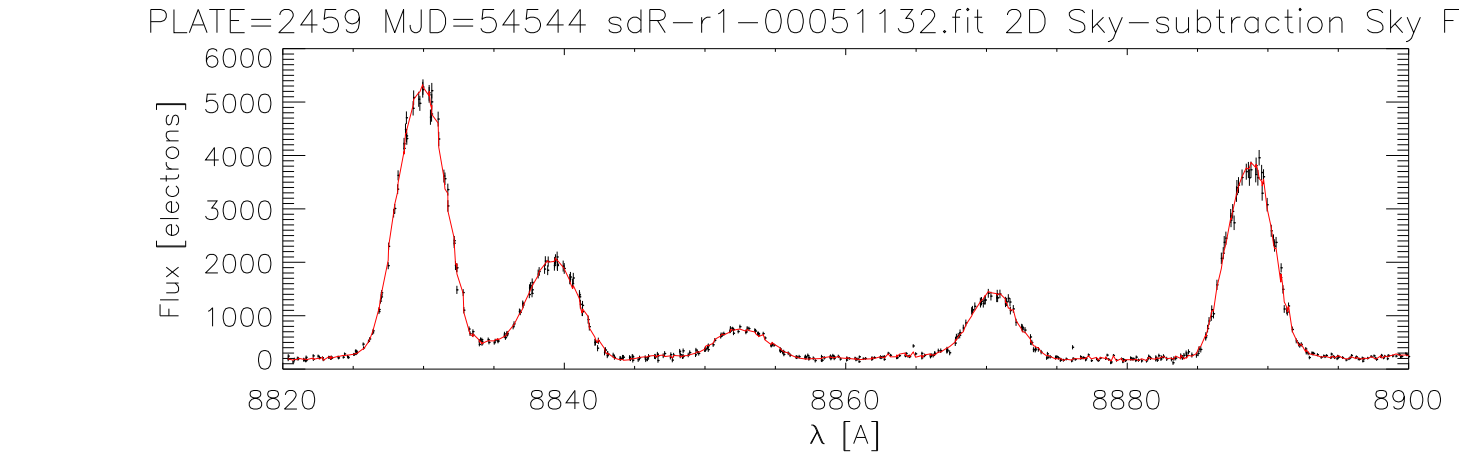

PLATE=2459 MJD=54544 sdR-r1-00051132.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
10
0
-10
-20
50
100
150
200
250
300
Fiber number

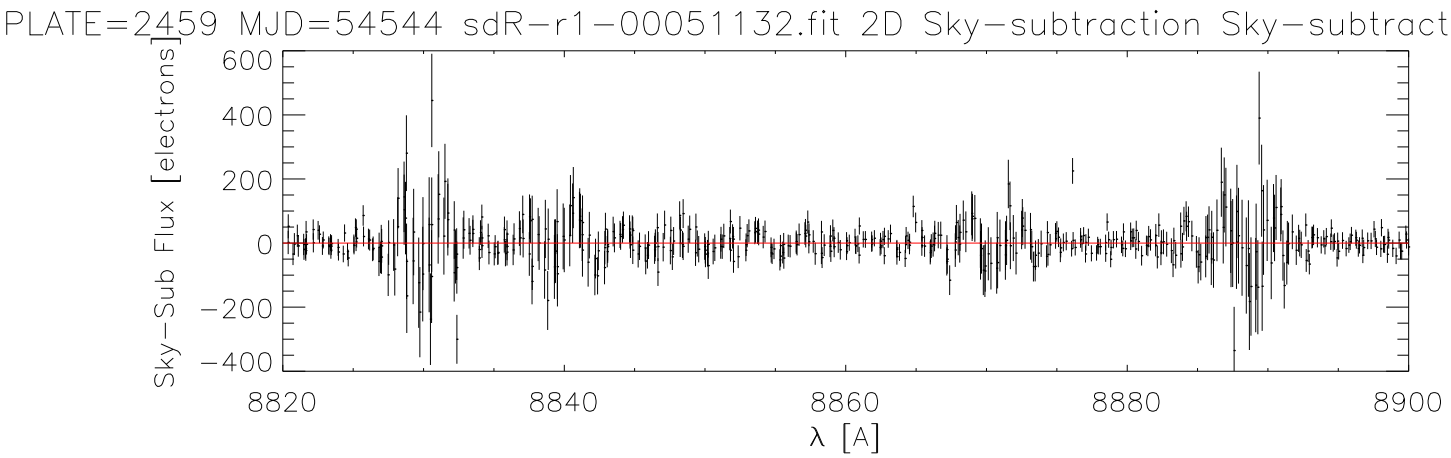

PLATE=2459 MJD=54544 sdR-r1-00051132.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

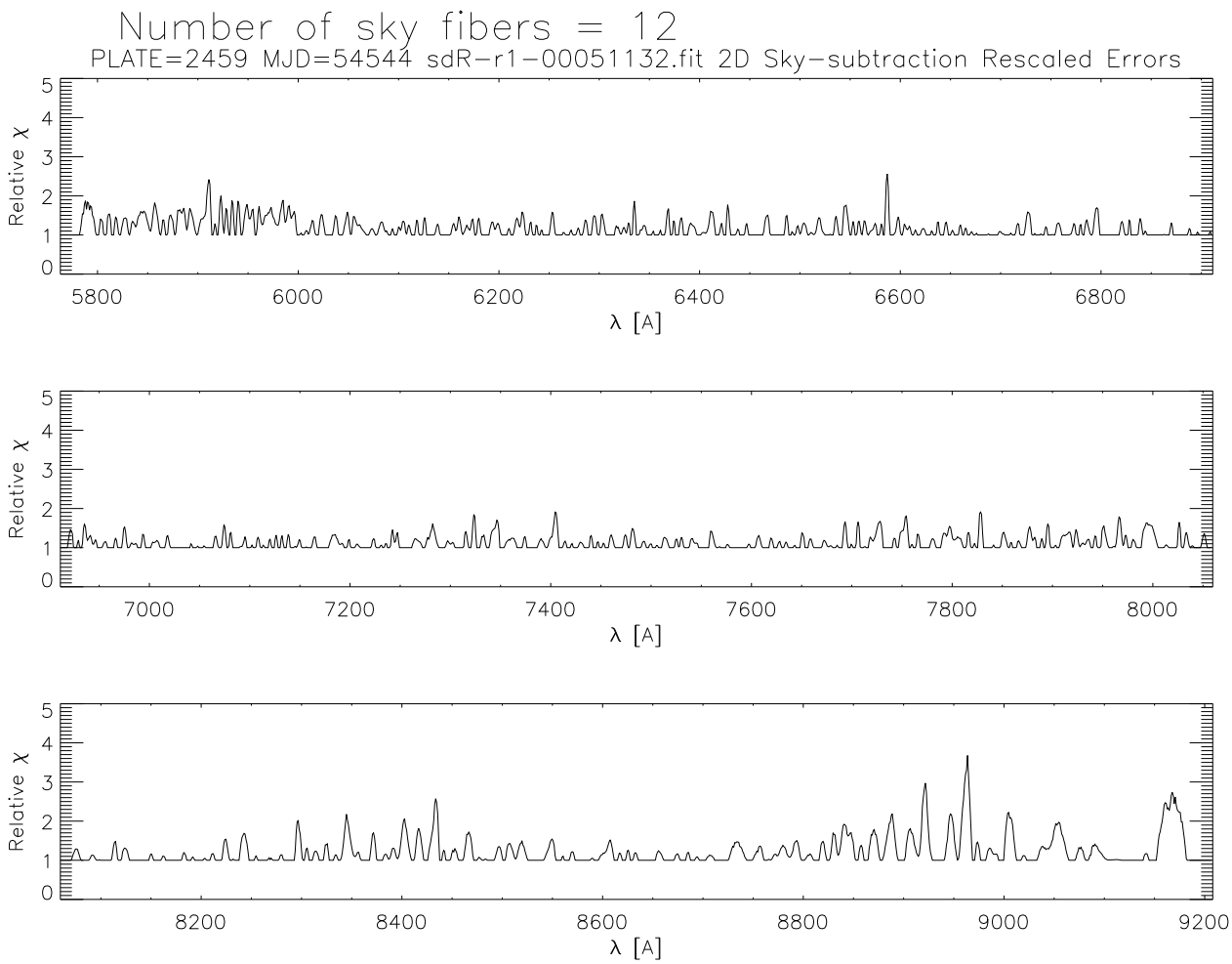

PLATE=2459 MJD=54544 sdR-r1-00051132.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

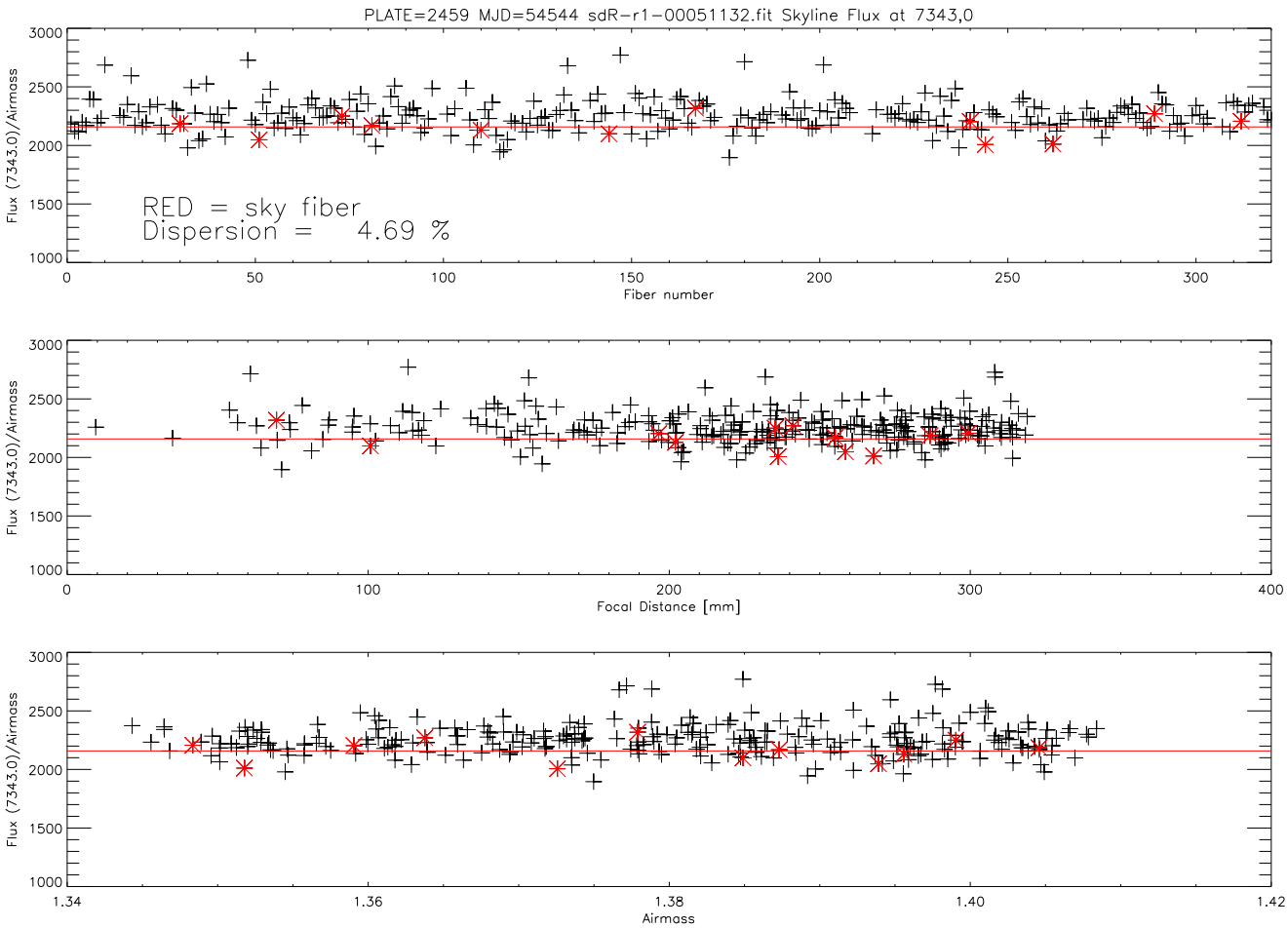

Number of sky fibers = 12
PLATE=2459 MJD=54544 sdR-r1-00051132.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

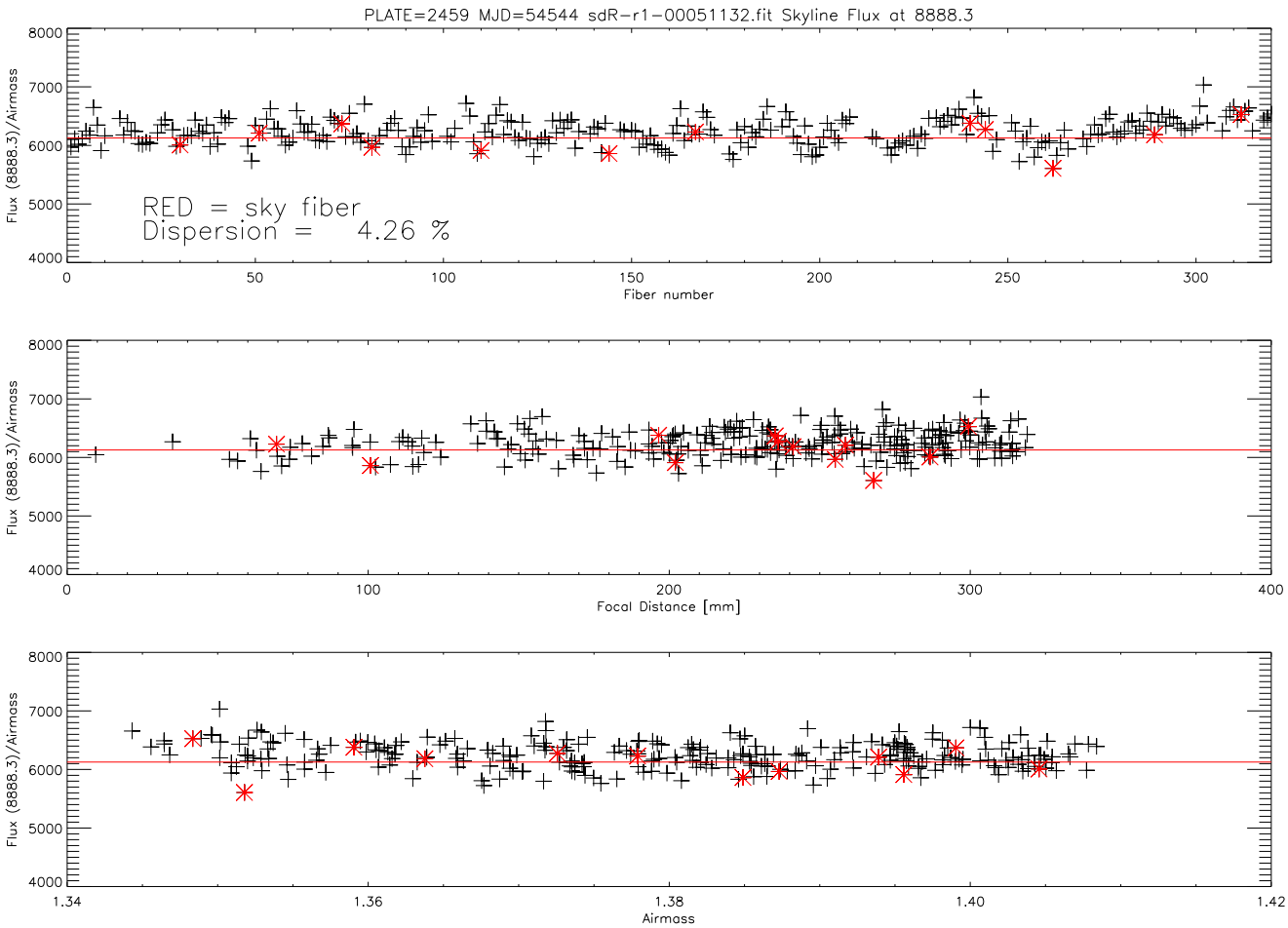

PLATE=2459 MJD=54544 sdR-r1-00051132.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

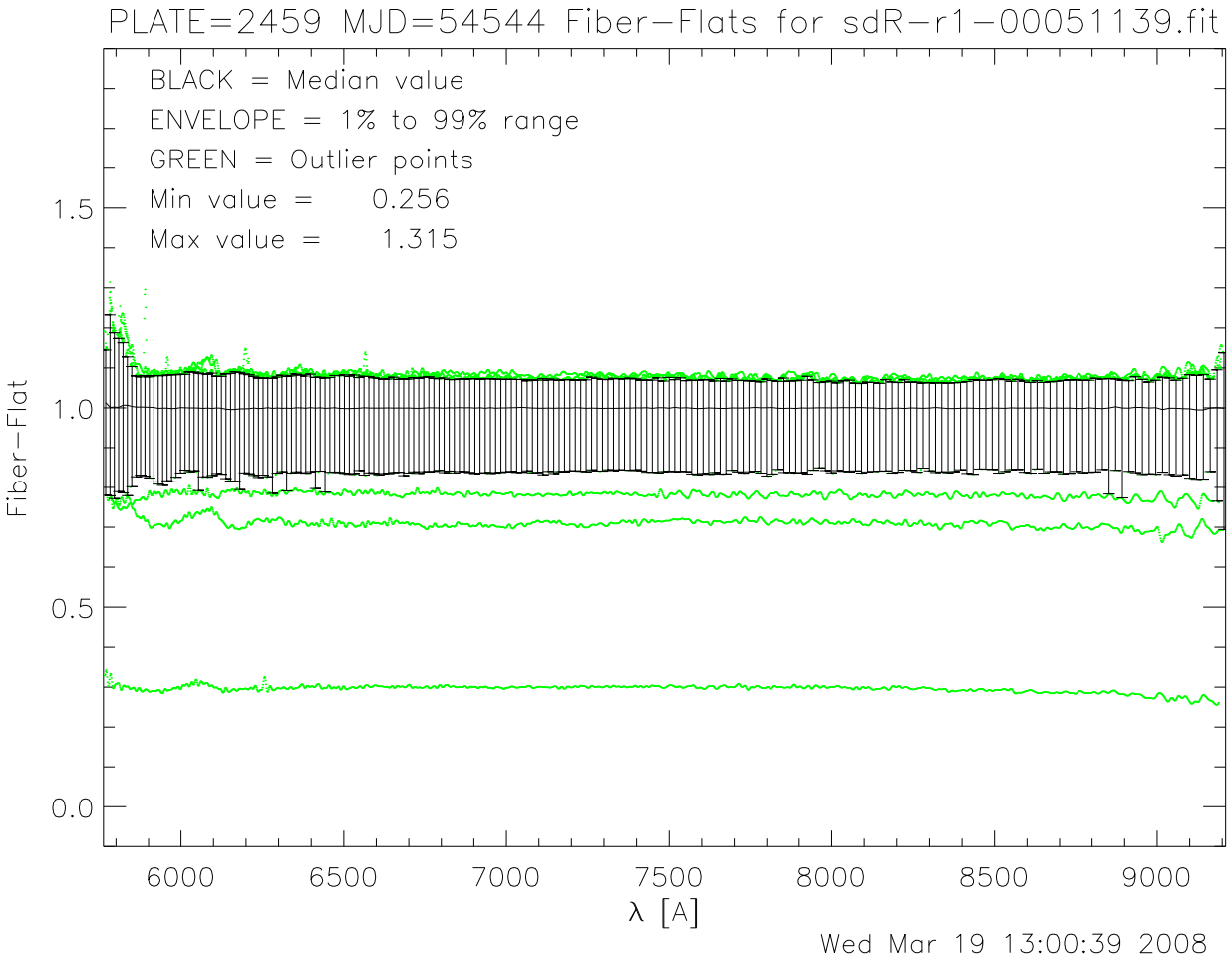

PLATE=2459 MJD=54544 sdR-r1-00051132.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

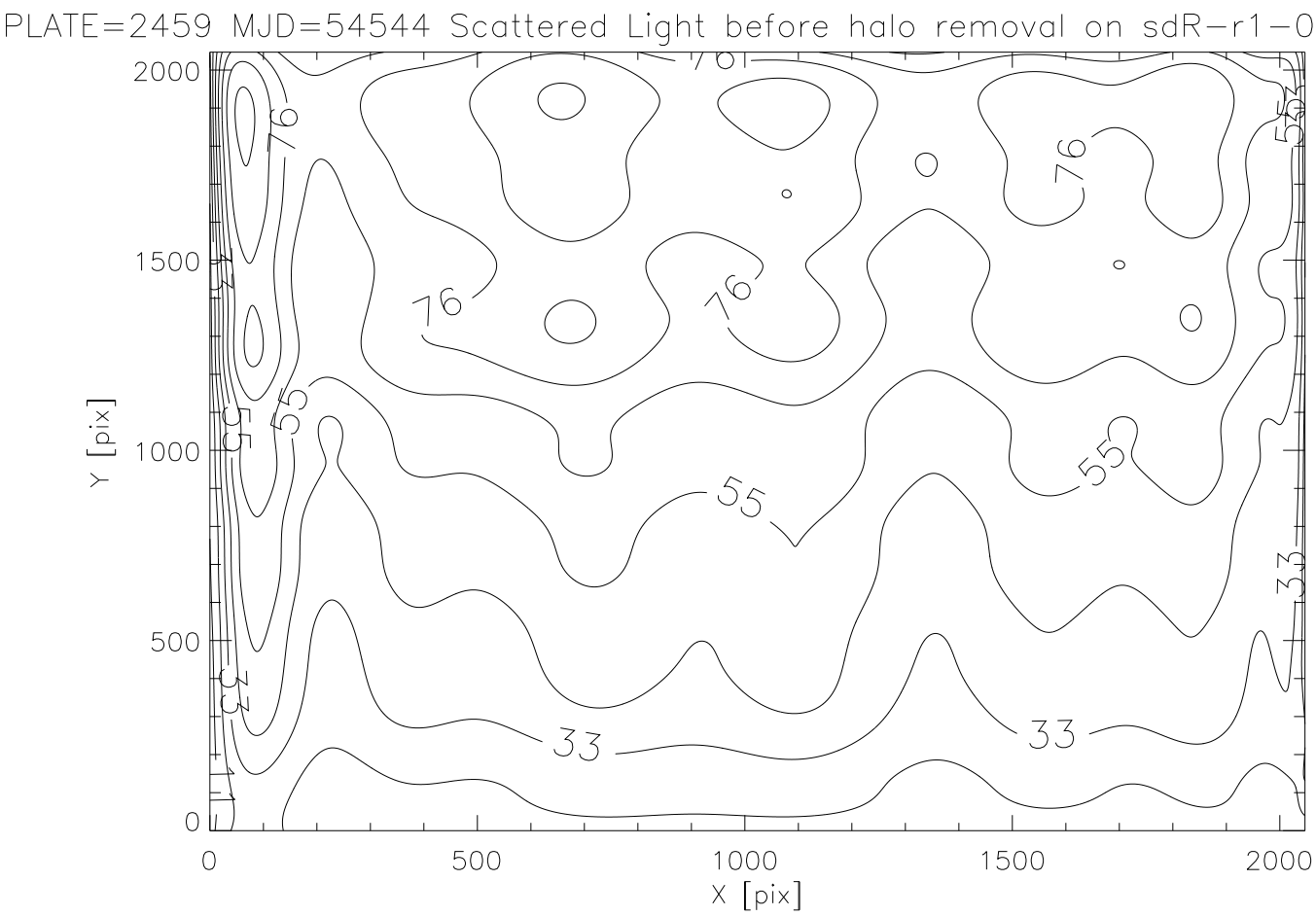

PLATE=2459 MJD=54544 sdR-r1-00051132.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

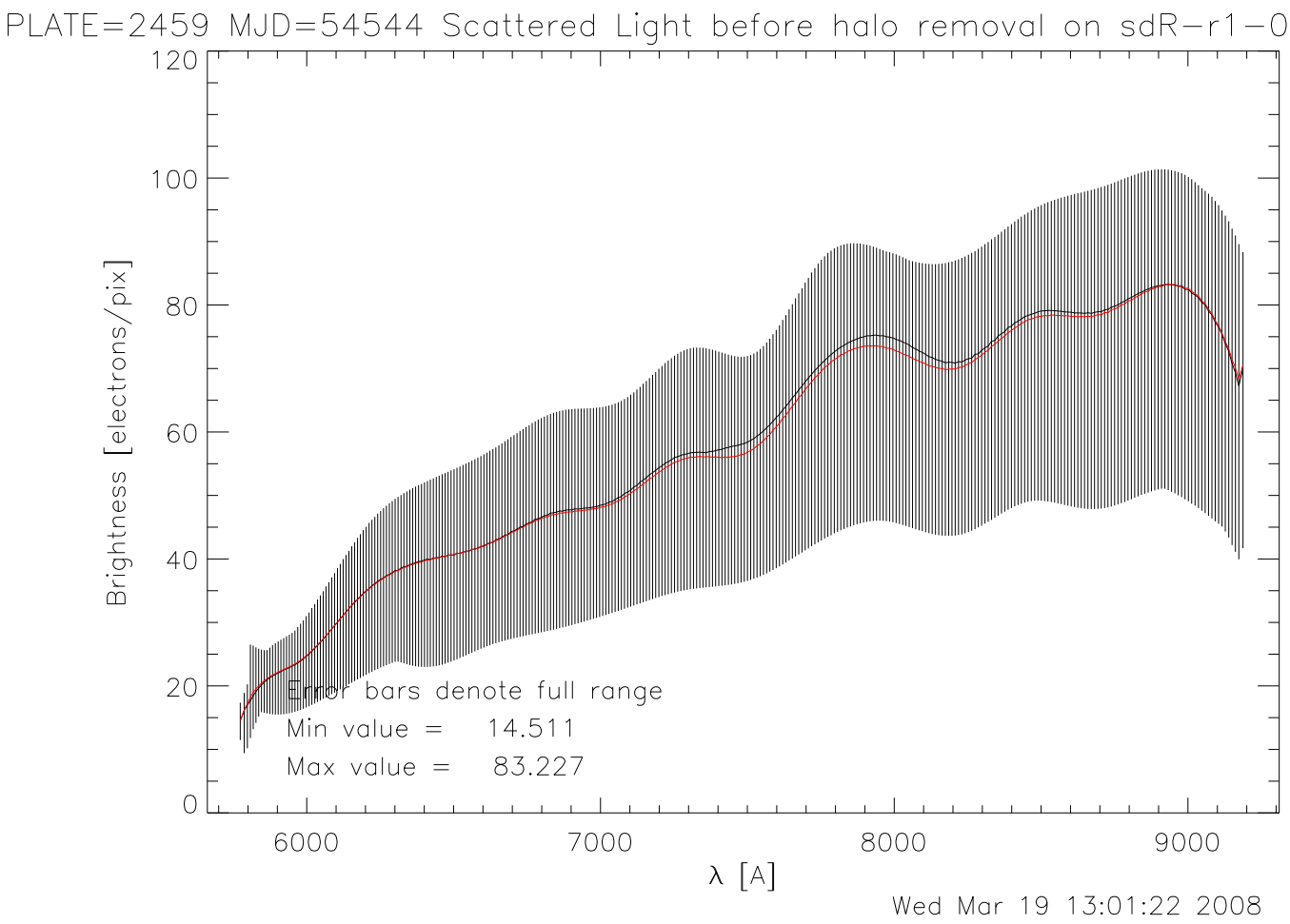

Number of sky fibers = 12
PLATE=2459 MJD=54544 sdR-r1-00051132.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

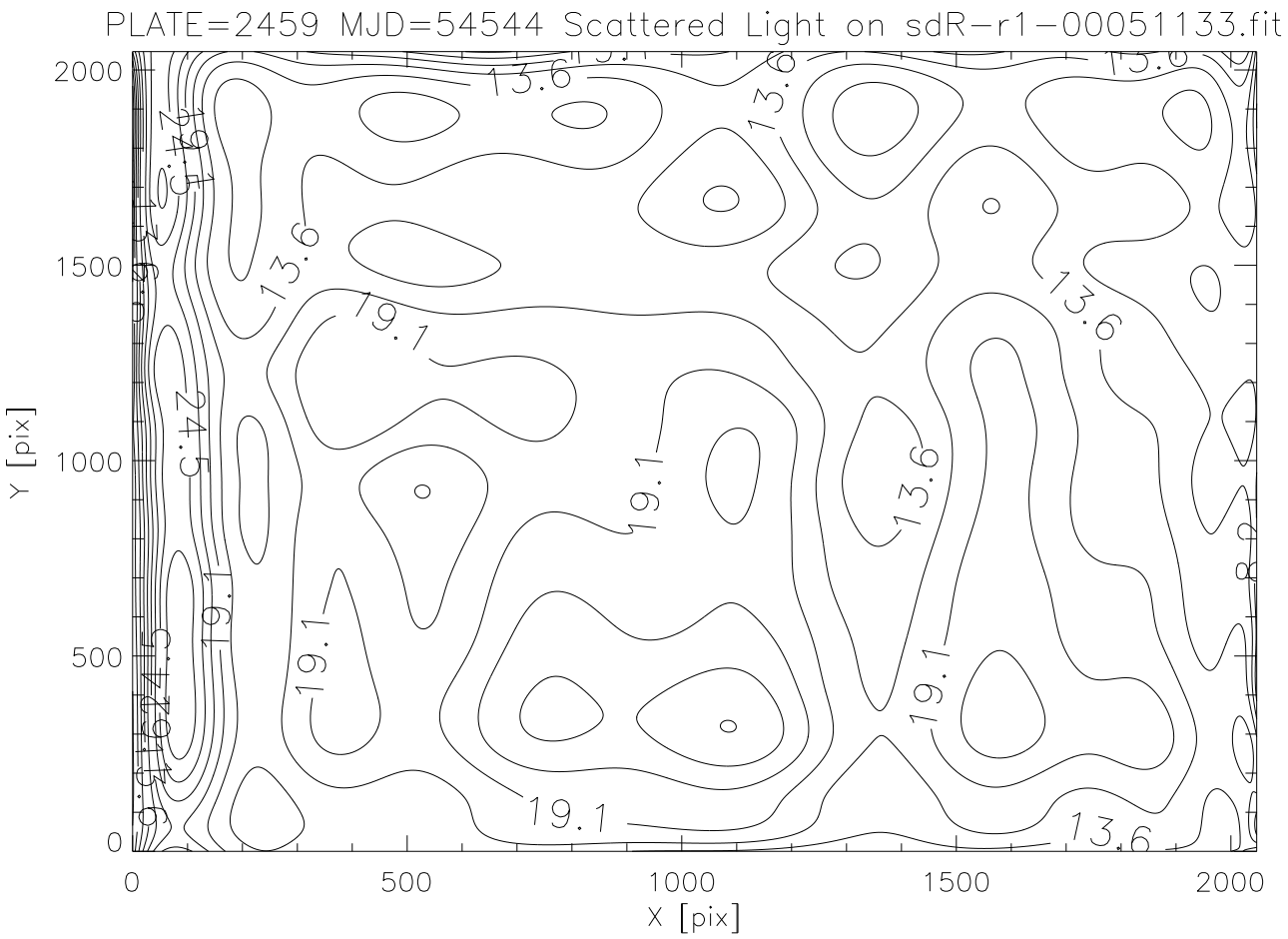

PLATE=2459 MJD=54544 sdR-r1-00051132.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 4.69 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

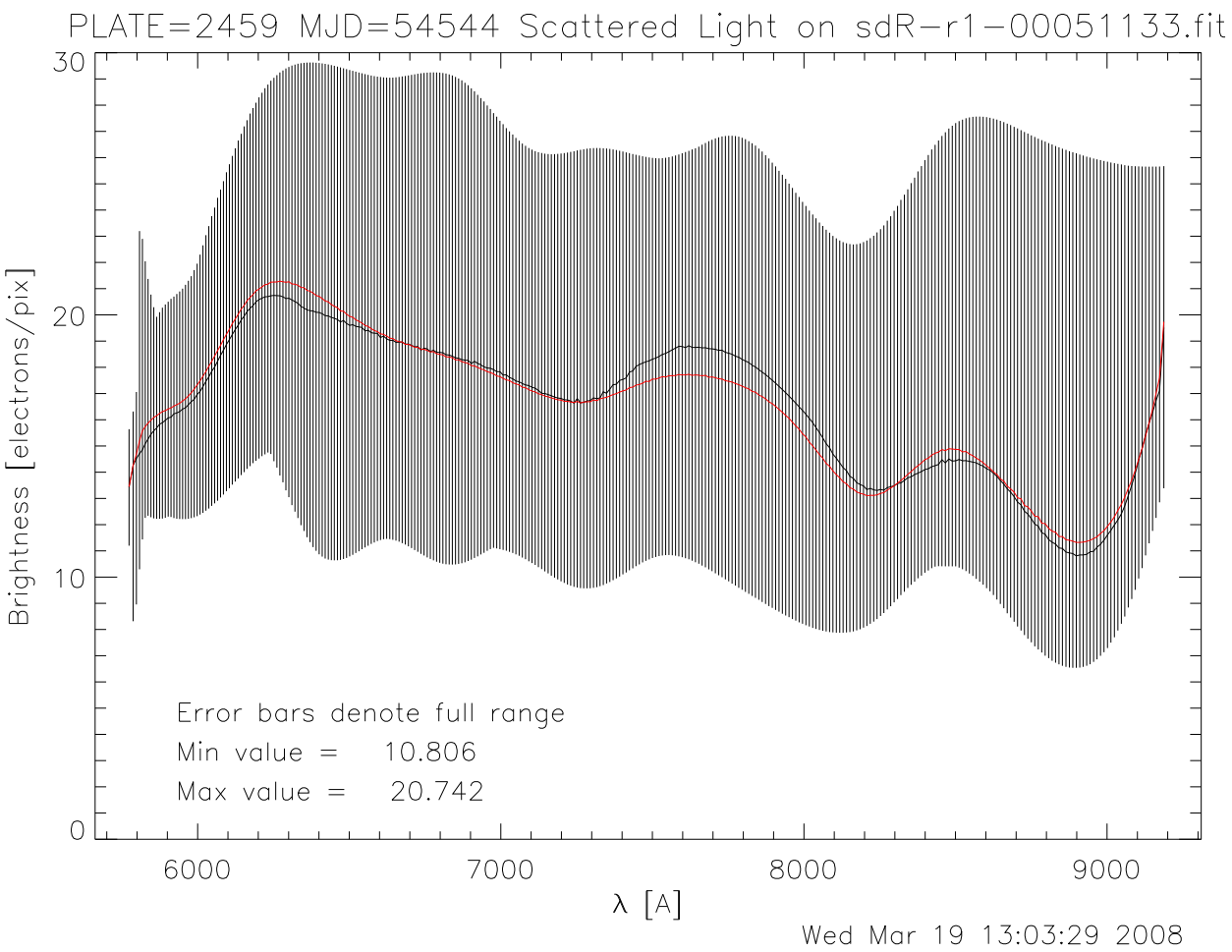

PLATE=2459 MJD=54544 sdR-r1-00051132.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 4.26 %
Fiber number
Focal Distance [mm]
Airmass

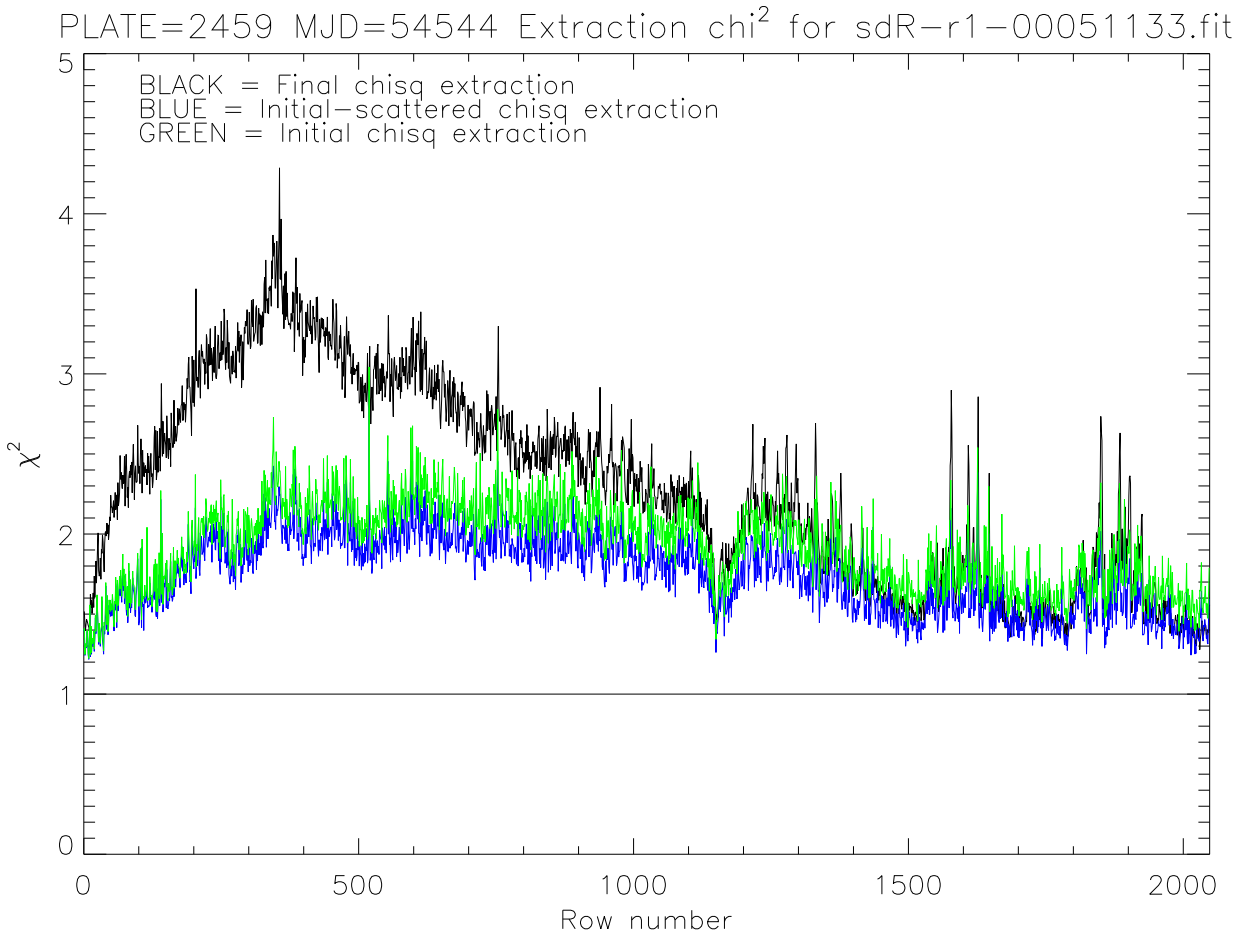

PLATE=2459 MJD=54544 Fiber−Flats for sdR−r1−00051139.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.256
Max value = 1.315
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 19 13:00:39 2008

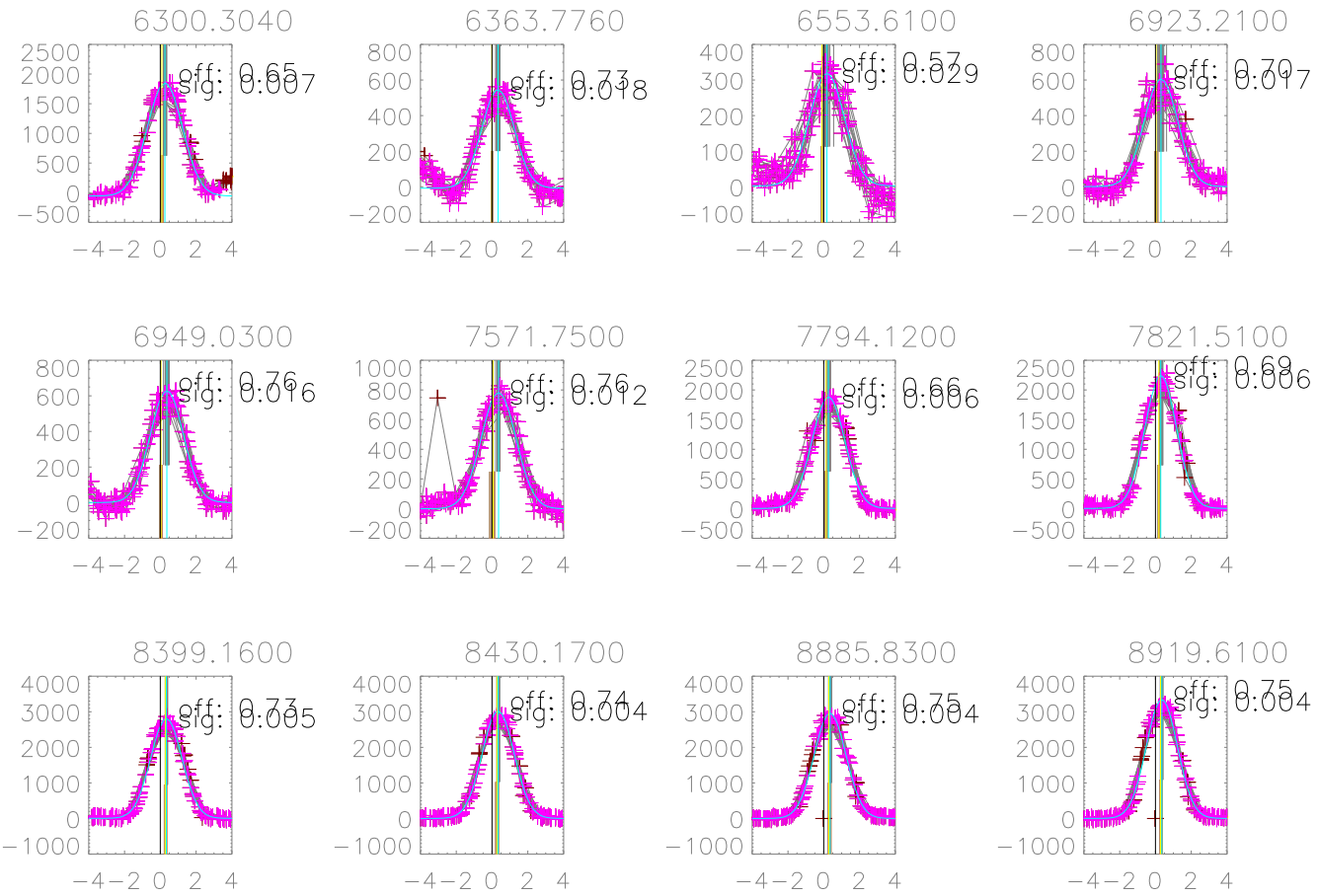

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-r1-00051133.fi
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
76
55
33
0

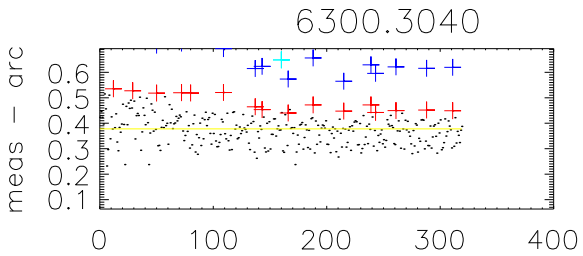

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-r1-00051133.fi
Brightness [electrons/pix]
120
100
80
60
40
20
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 14.511
Max value = 83.227
Wed Mar 19 13:01:22 2008

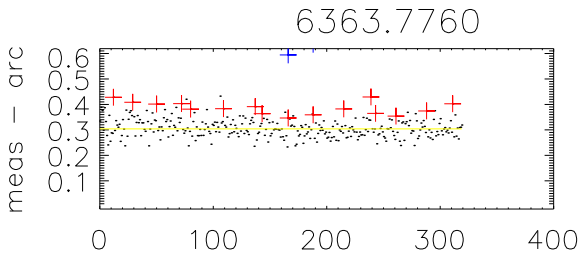

PLATE=2459 MJD=54544 Scattered Light on sdR−r1−00051133.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
13.6
19.1
24.5

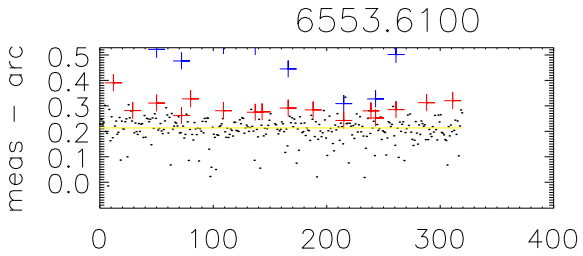

PLATE=2459 MJD=54544 Scattered Light on sdR-r1-00051133.fit
Brightness [electrons/pix]
30
20
10
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 10.806
Max value = 20.742
Wed Mar 19 13:03:29 2008

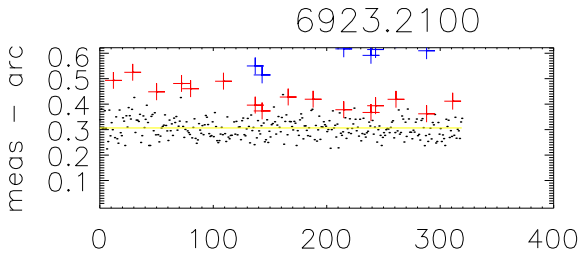

PLATE=2459 MJD=54544 Extraction chi^2 for sdR−r1−00051133.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

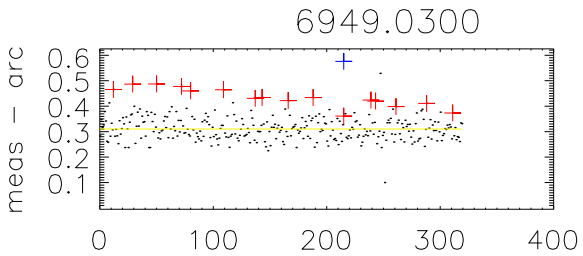

6300.3040
off: 0.65
sig: 0.007
6363.7760
off: 0.73
sig: 0.018
6553.6100
off: 0.57
sig: 0.029
6923.2100
off: 0.70
sig: 0.017
6949.0300
off: 0.76
sig: 0.016
7571.7500
off: 0.76
sig: 0.012
7794.1200
off: 0.66
sig: 0.006
7821.5100
off: 0.69
sig: 0.006
8399.1600
off: 0.73
sig: 0.005
8430.1700
off: 0.74
sig: 0.004
8885.8300
off: 0.75
sig: 0.004
8919.6100
off: 0.75
sig: 0.004

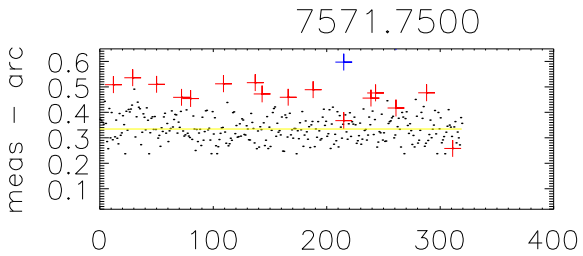

6300.3040
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

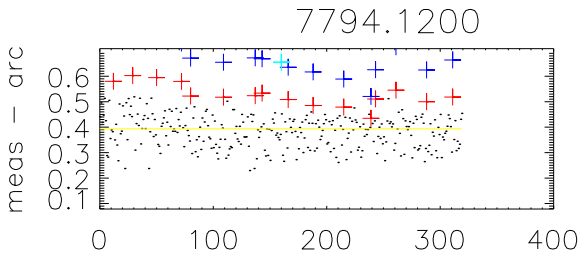

6363.7760
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

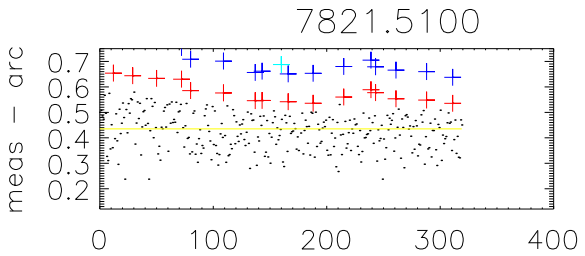

6553.6100
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

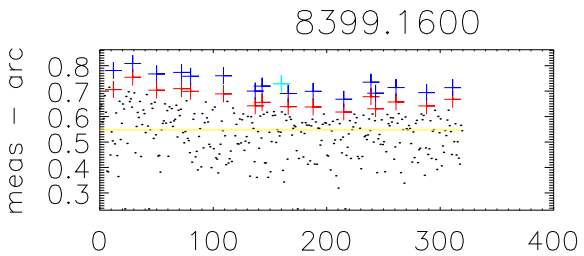

6923.2100
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

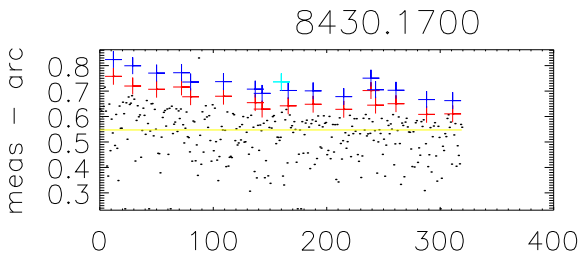

6949.0300
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

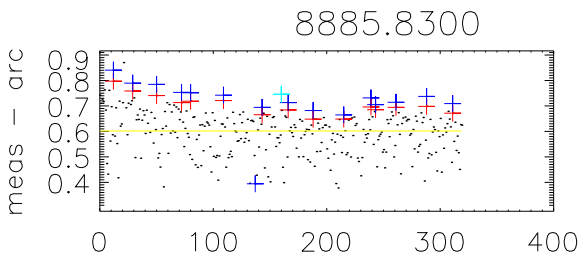

7571.7500
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

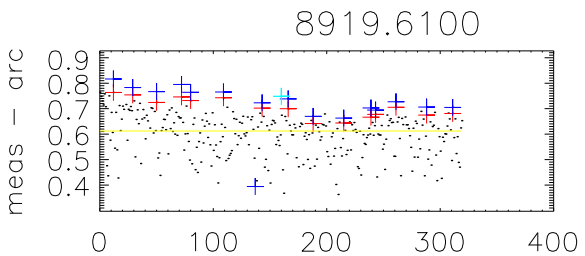

7794.1200
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

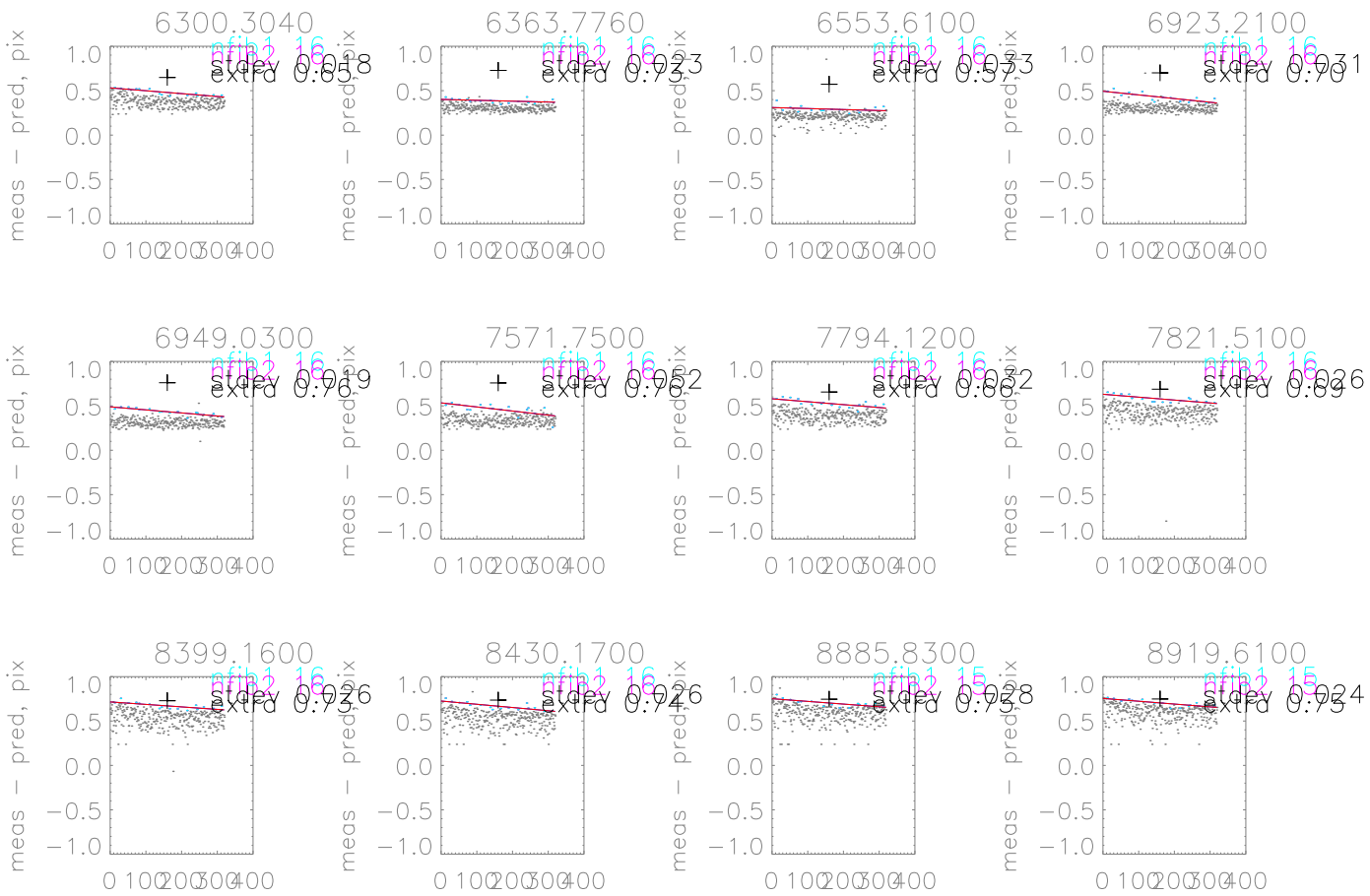

7821.5100
meas − arc
0.2
0.3
0.4
0.5
0.6
0.7
0
100
200
300
400

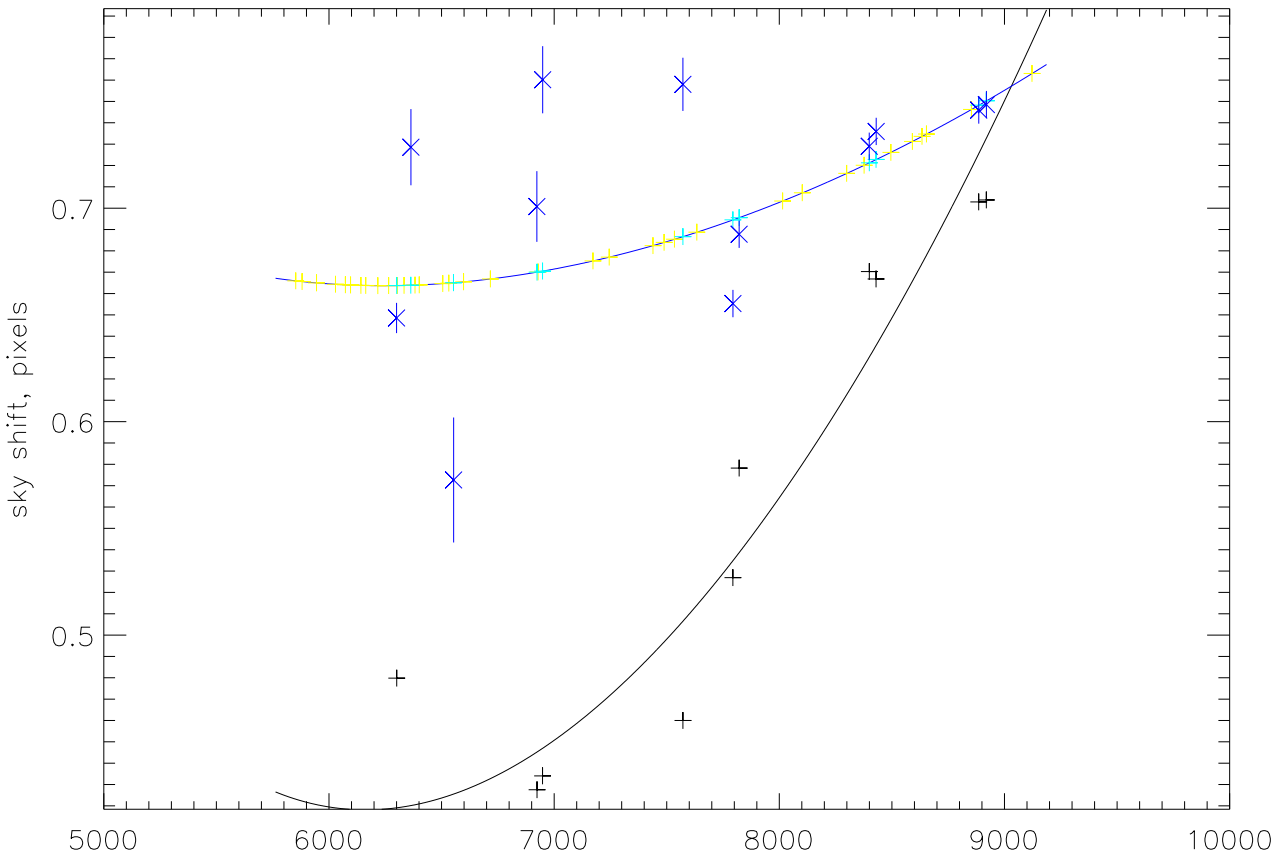

8399.1600
meas − arc
0.3
0.4
0.5
0.6
0.7
0.8
0
100
200
300
400

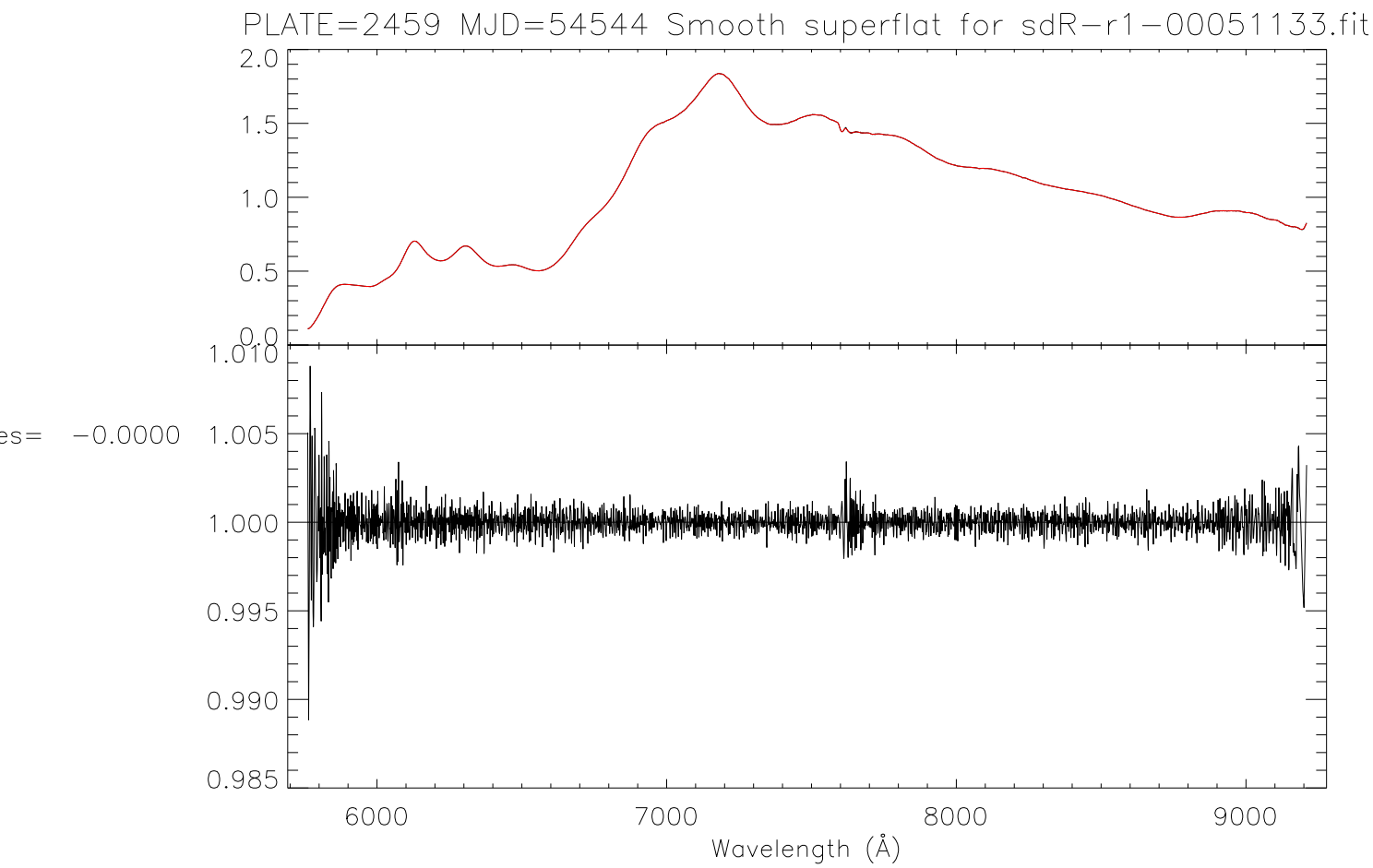

8430.1700
meas − arc
0.3
0.4
0.5
0.6
0.7
0.8
0
100
200
300
400

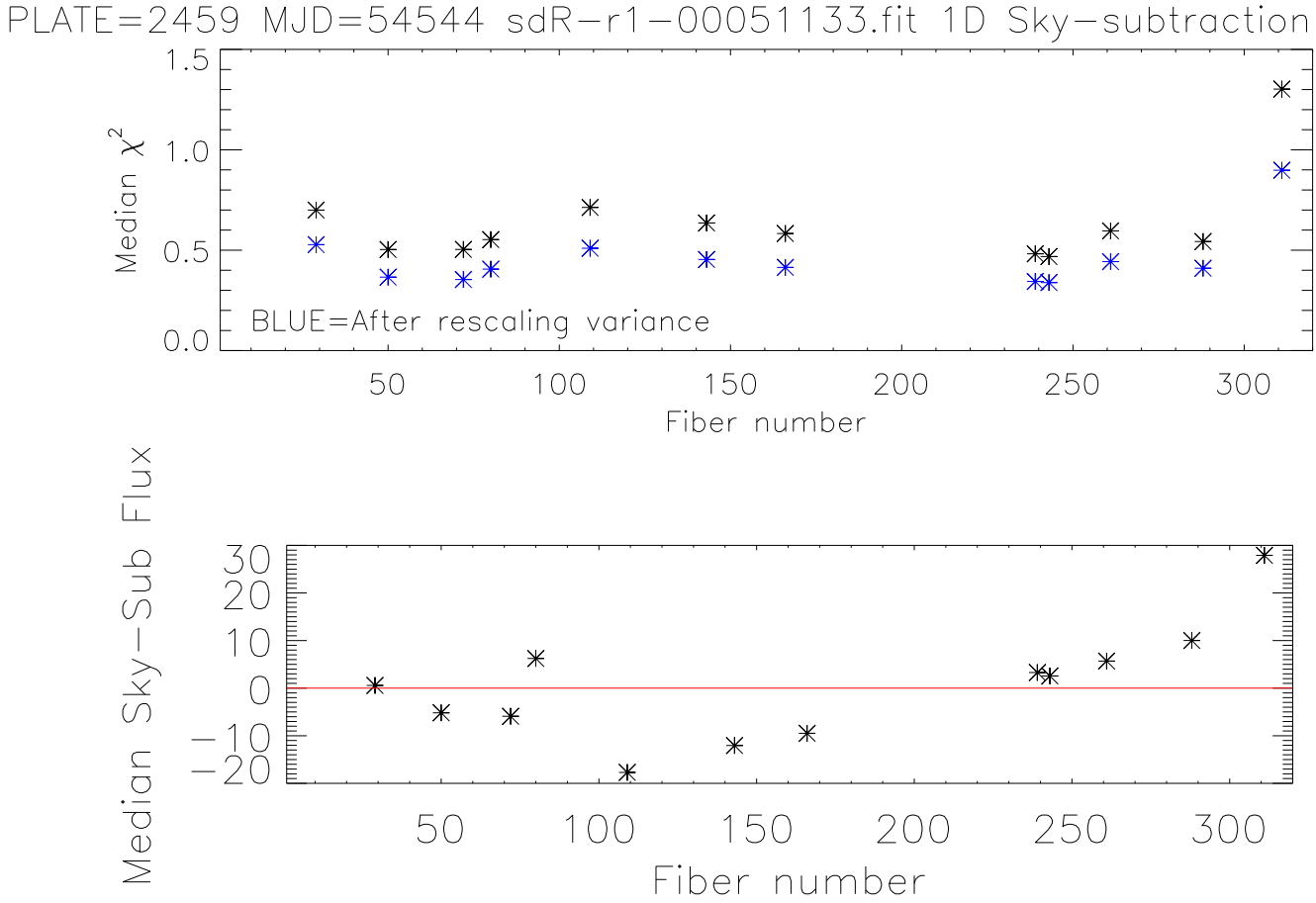

8885.8300
meas − arc
0.4
0.5
0.6
0.7
0.8
0.9
0
100
200
300
400

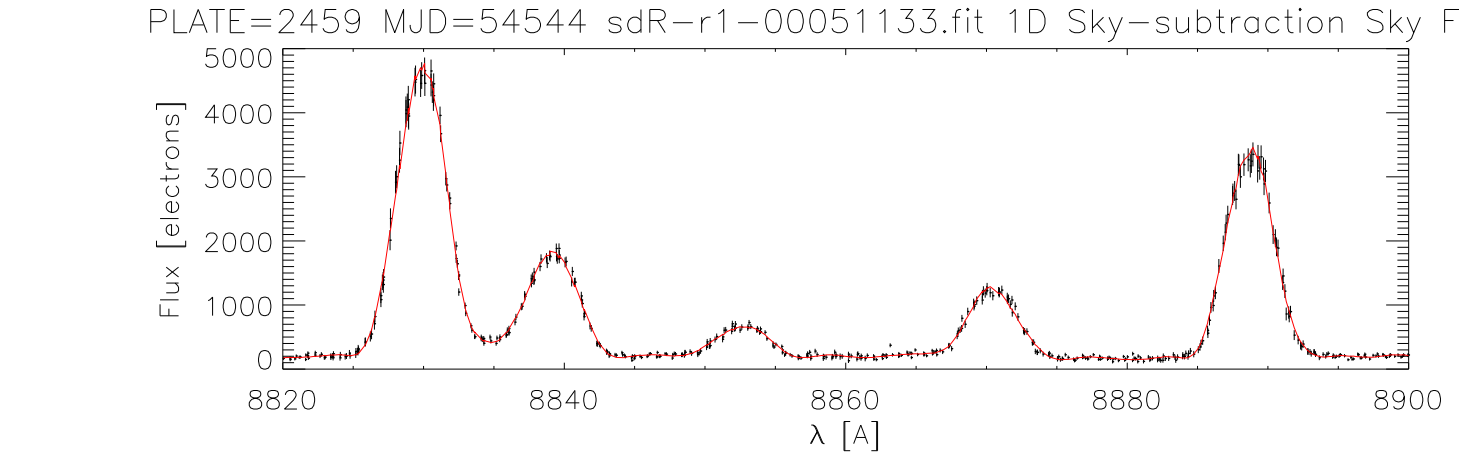

8919.6100
meas − arc
0.4
0.5
0.6
0.7
0.8
0.9
0
100
200
300
400

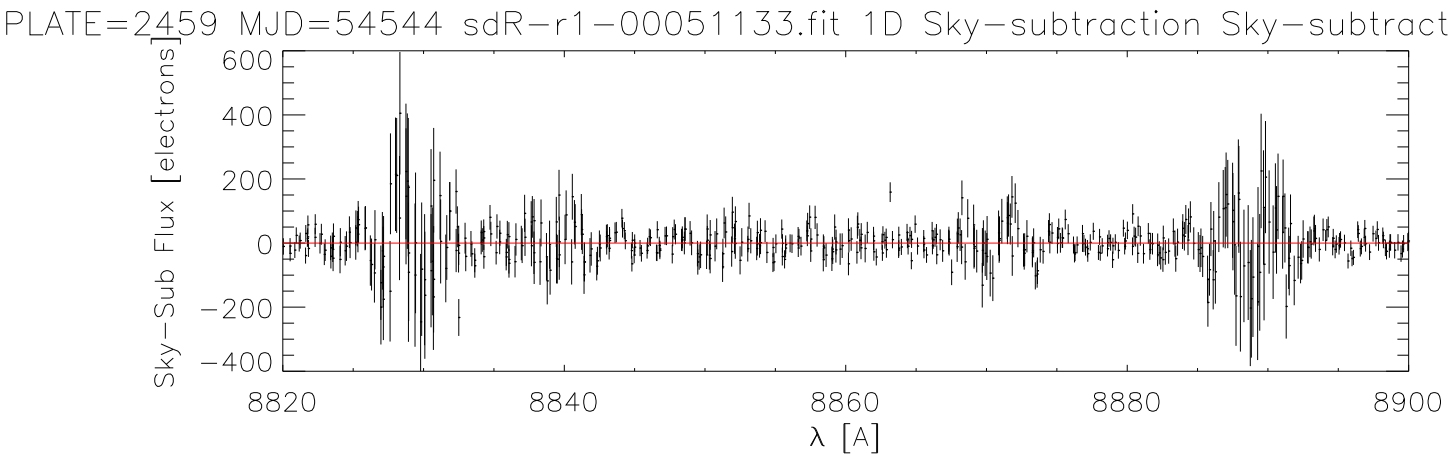

6300.3040
stdev 0.858
extra 0.73
6363.7760
stdev 0.923
extra 0.73
6553.6100
stdev 0.933
extra 0.57
6923.2100
stdev 0.931
extra 0.70
6949.0300
stdev 0.949
extra 0.76
7571.7500
stdev 0.952
extra 0.76
7794.1200
stdev 0.932
extra 0.66
7821.5100
stdev 0.926
extra 0.69
8399.1600
stdev 0.926
extra 0.73
8430.1700
stdev 0.926
extra 0.74
8885.8300
stdev 0.928
extra 0.73
8919.6100
stdev 0.924
extra 0.73
meas − pred, pix
mfib2 16
mfib1 16
mfib2 15
mfib1 15

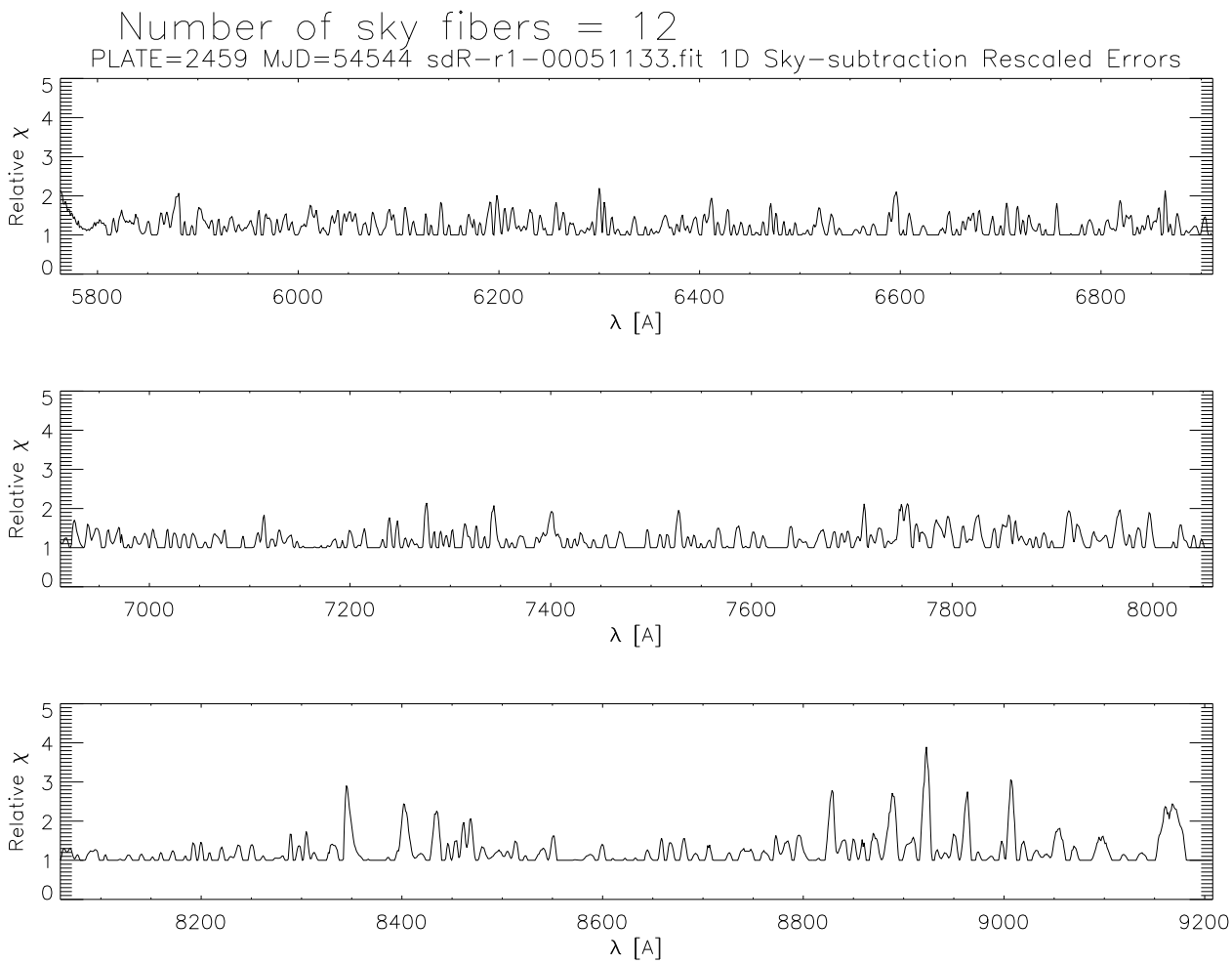

sky shift, pixels
0.5
0.6
0.7
5000
6000
7000
8000
9000
10000

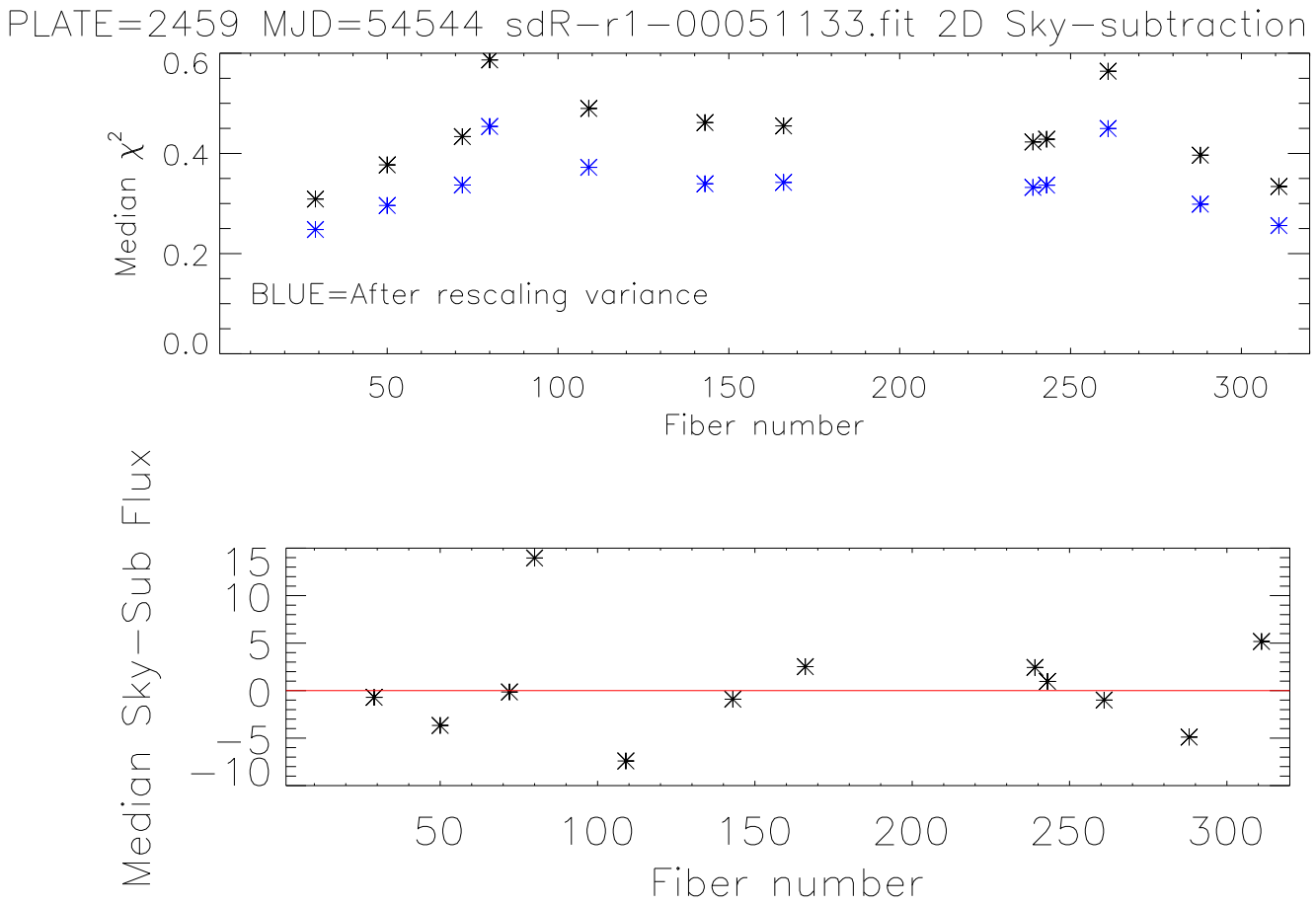

PLATE=2459 MJD=54544 Smooth superflat for sdR-r1-00051133.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

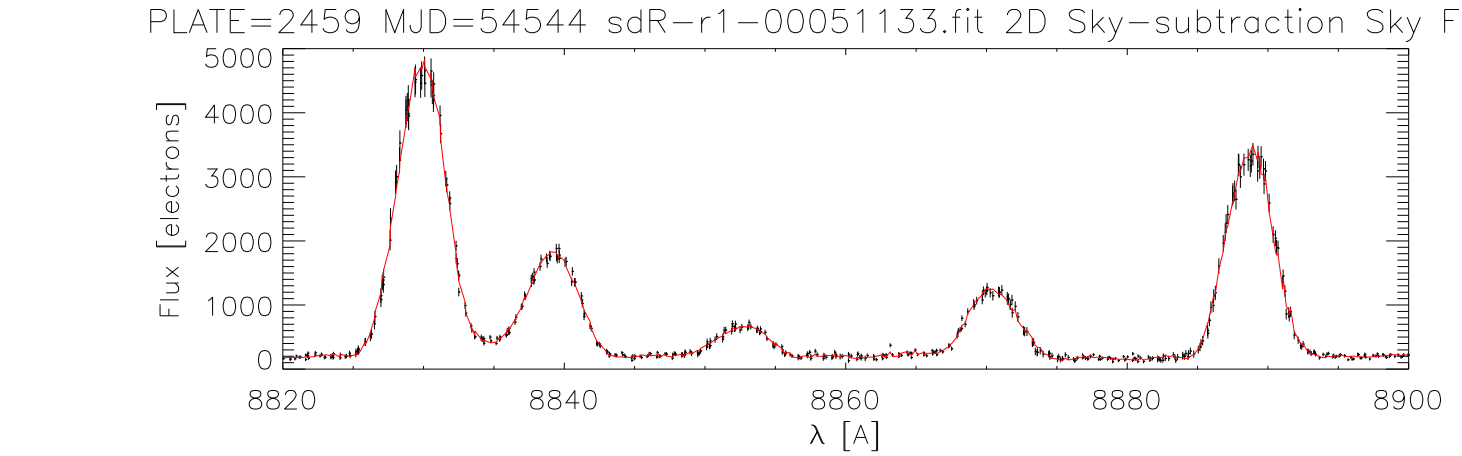

PLATE=2459 MJD=54544 sdR-r1-00051133.fit 1D Sky-subtraction Sky Fibers
Median χ^2
1.5
1.0
0.5
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
30
20
10
0
-10
-20
50
100
150
200
250
300
Fiber number

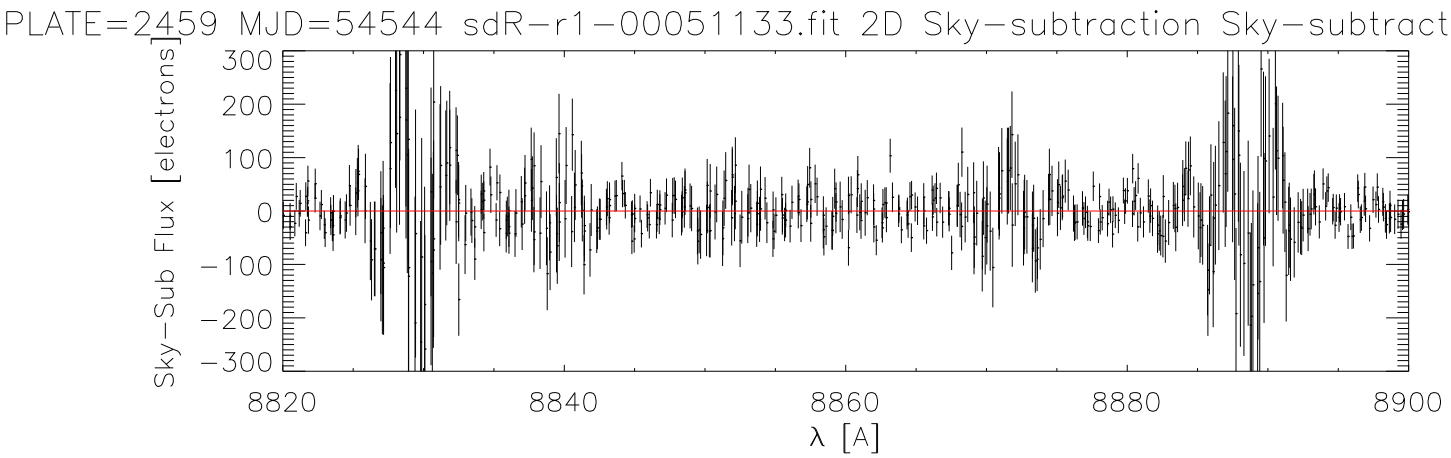

PLATE=2459 MJD=54544 sdR-r1-00051133.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

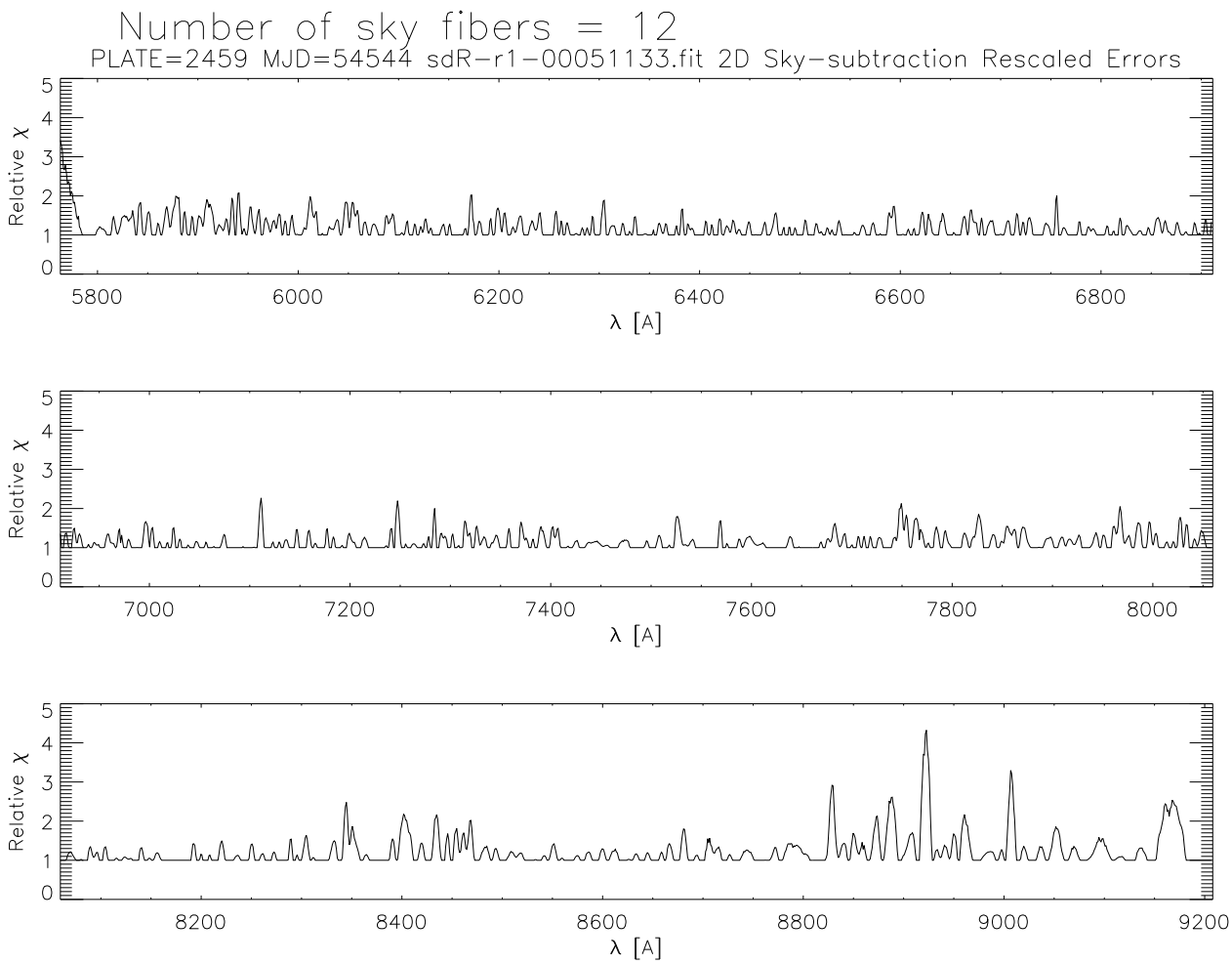

PLATE=2459 MJD=54544 sdR-r1-00051133.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

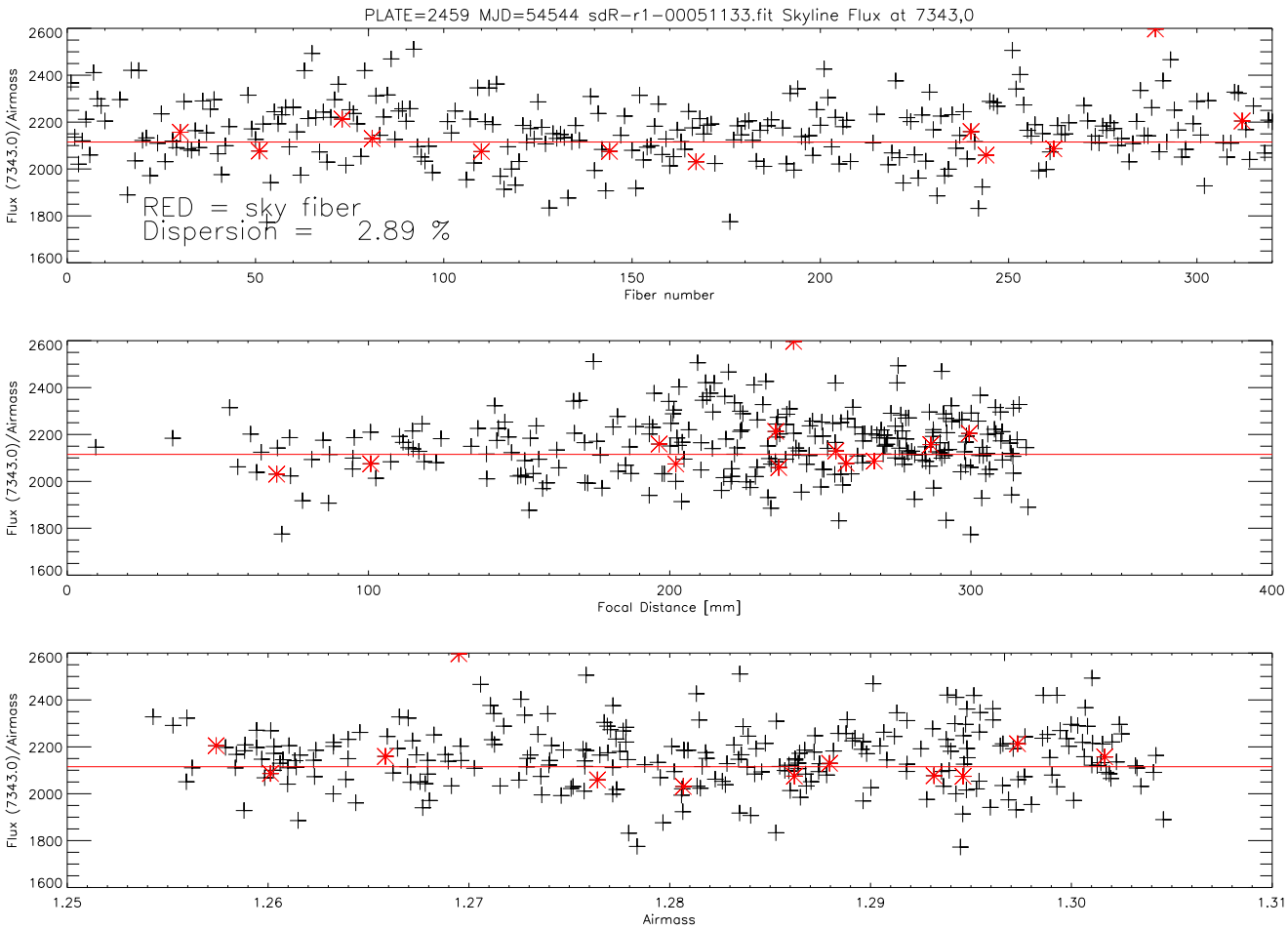

Number of sky fibers = 12
PLATE=2459 MJD=54544 sdR-r1-00051133.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

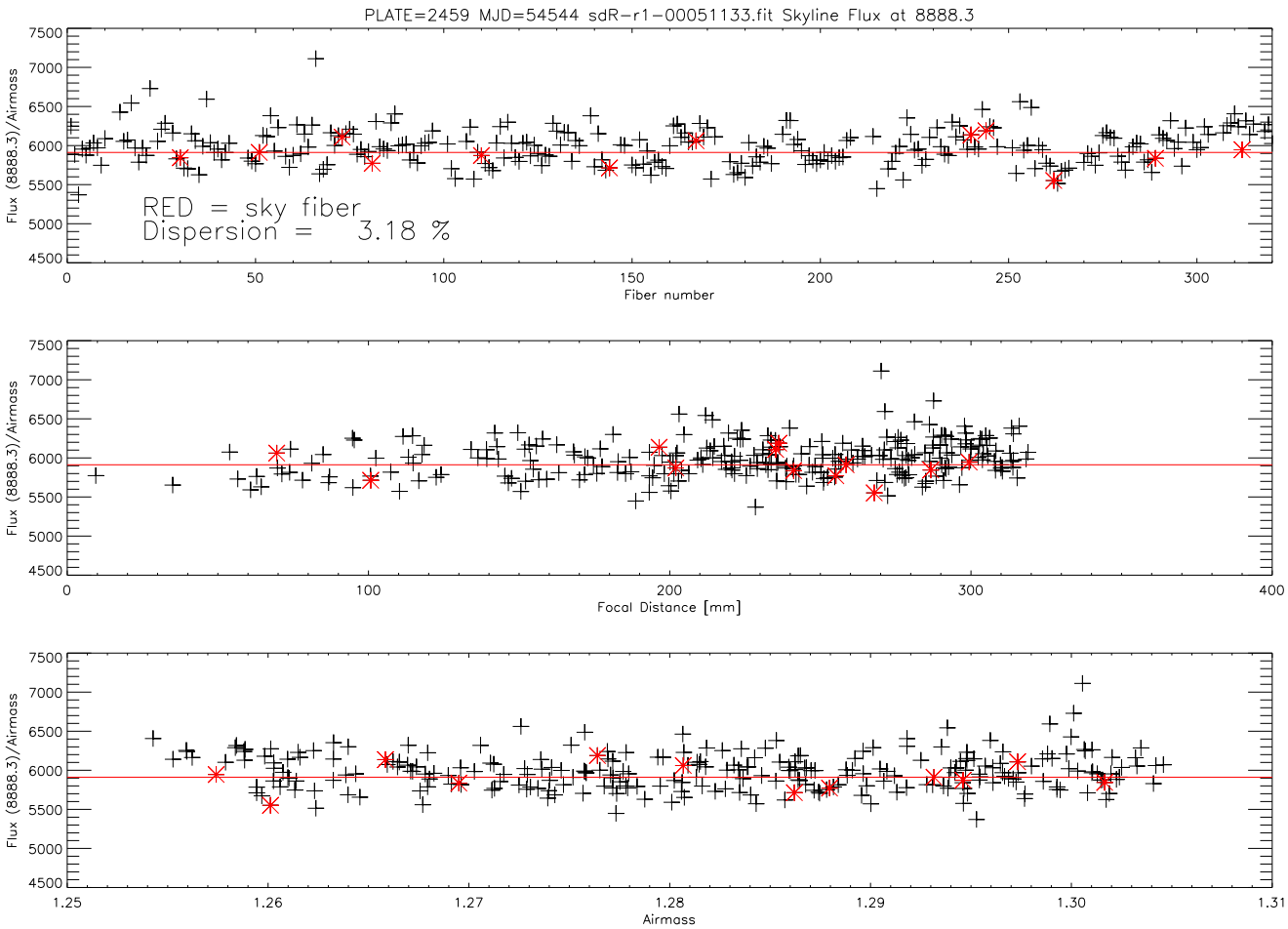

PLATE=2459 MJD=54544 sdR-r1-00051133.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
15
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

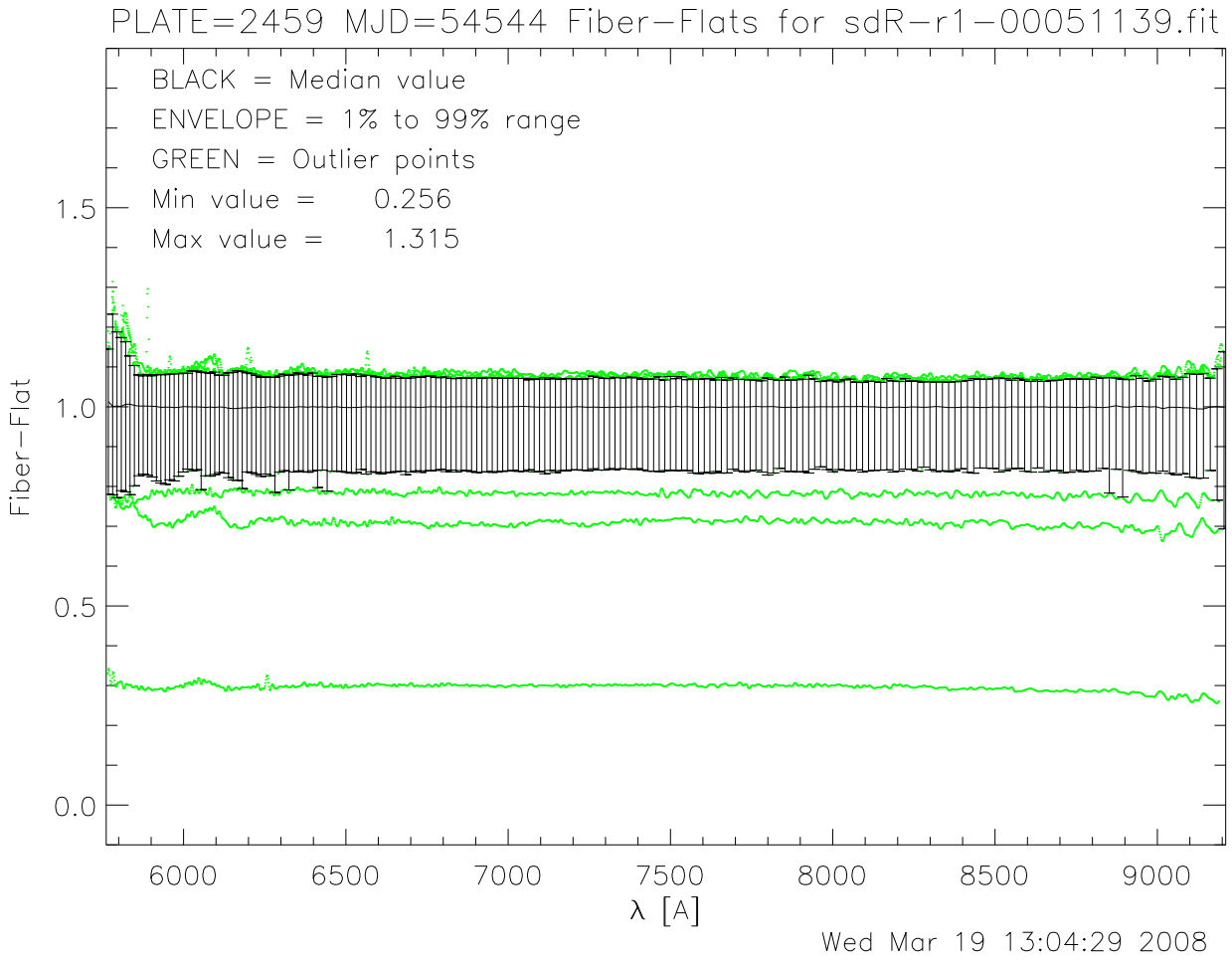

PLATE=2459 MJD=54544 sdR-r1-00051133.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

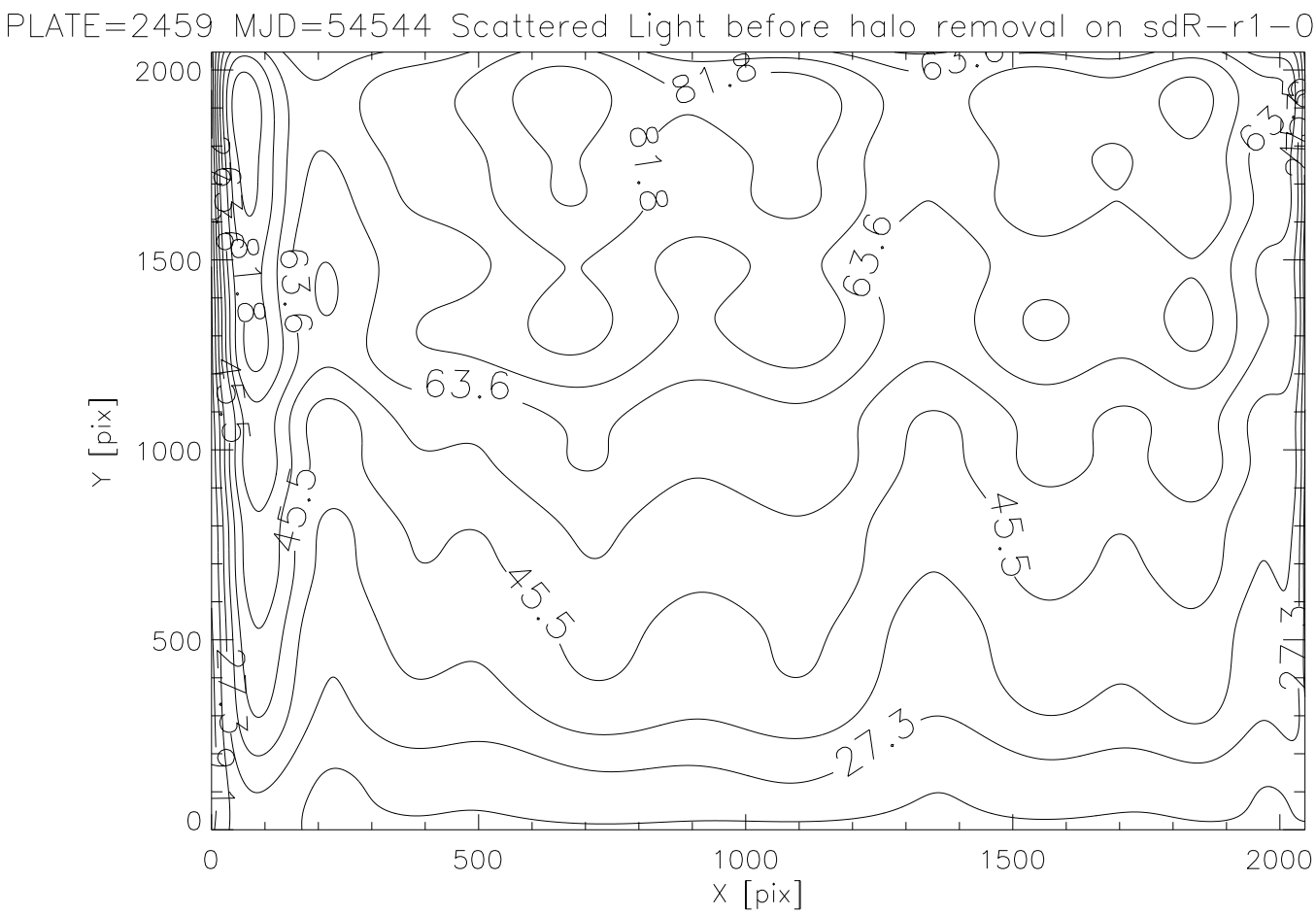

PLATE=2459 MJD=54544 sdR-r1-00051133.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

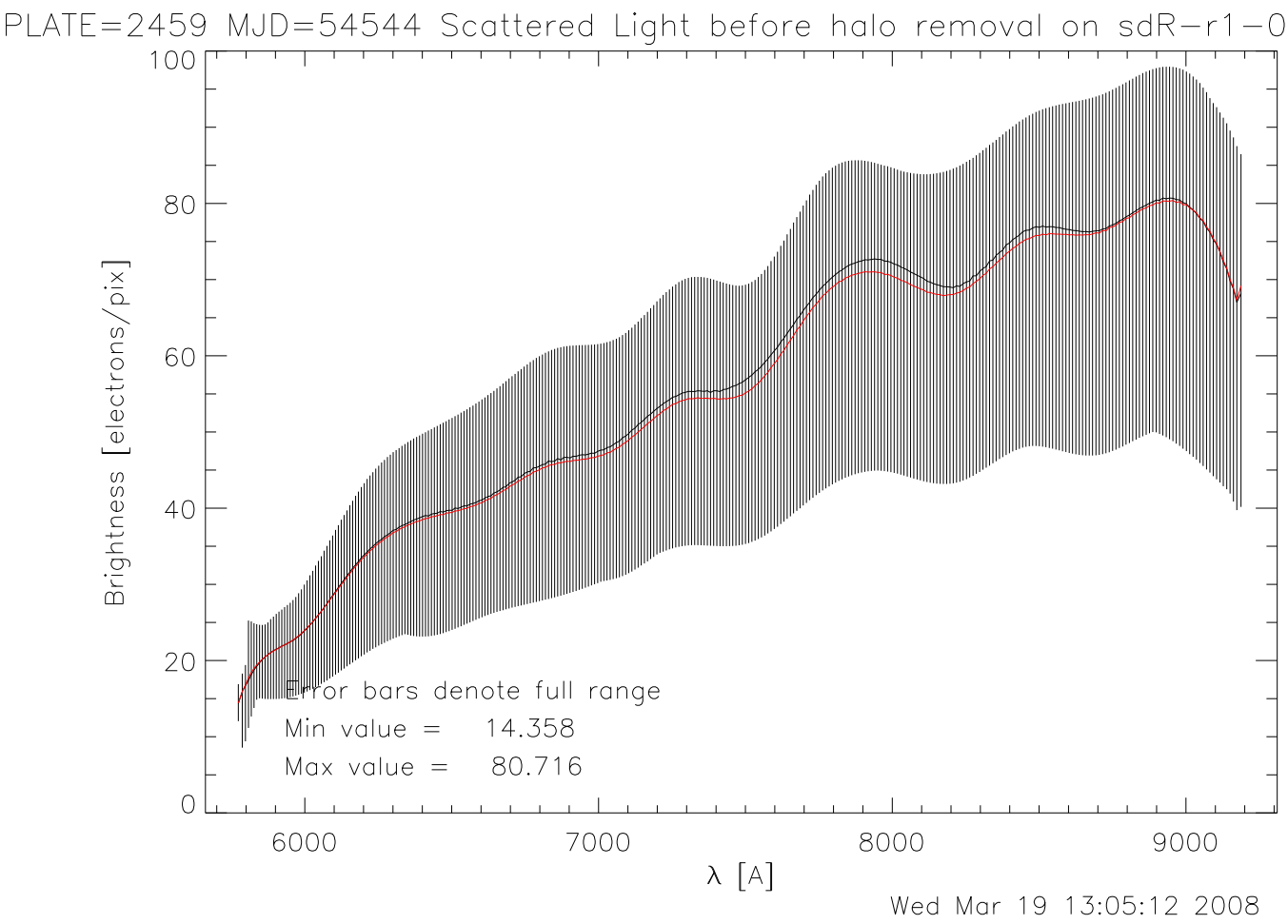

Number of sky fibers = 12
PLATE=2459 MJD=54544 sdR-r1-00051133.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

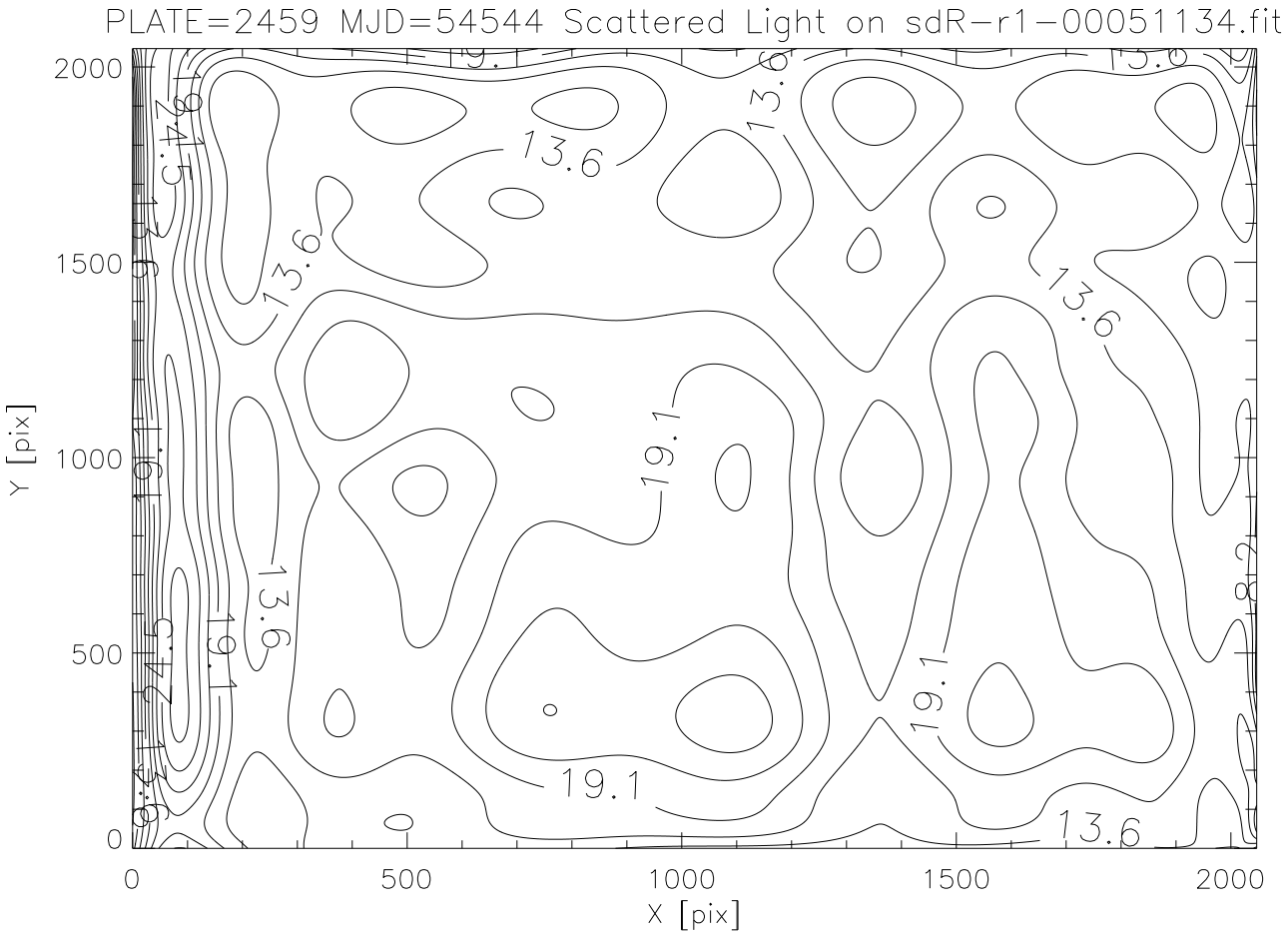

PLATE=2459 MJD=54544 sdR-r1-00051133.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.89 %
Fiber number
Focal Distance [mm]
Airmass

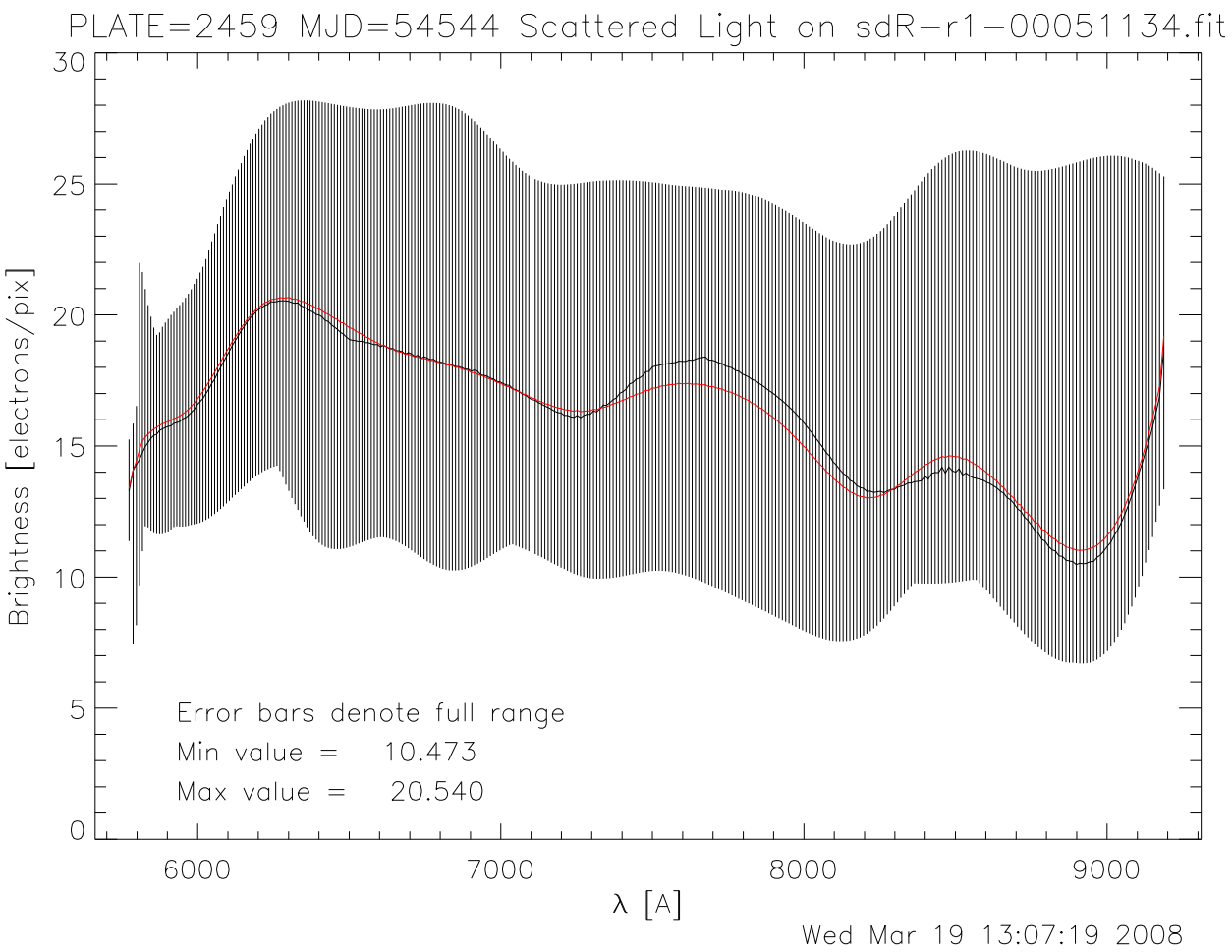

PLATE=2459 MJD=54544 sdR-r1-00051133.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.18 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

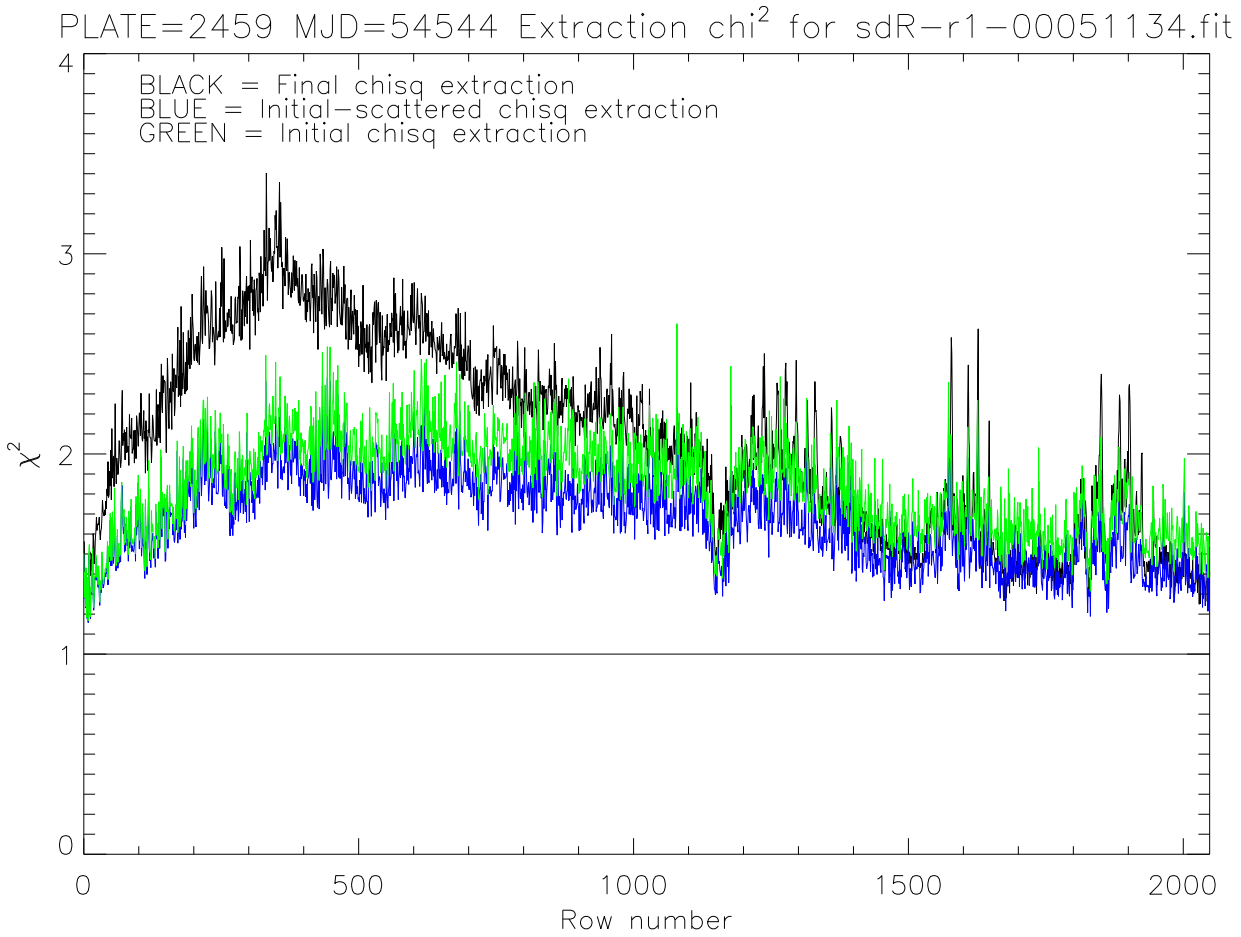

PLATE=2459 MJD=54544 Fiber−Flats for sdR−r1−00051139.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.256
Max value = 1.315
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 19 13:04:29 2008

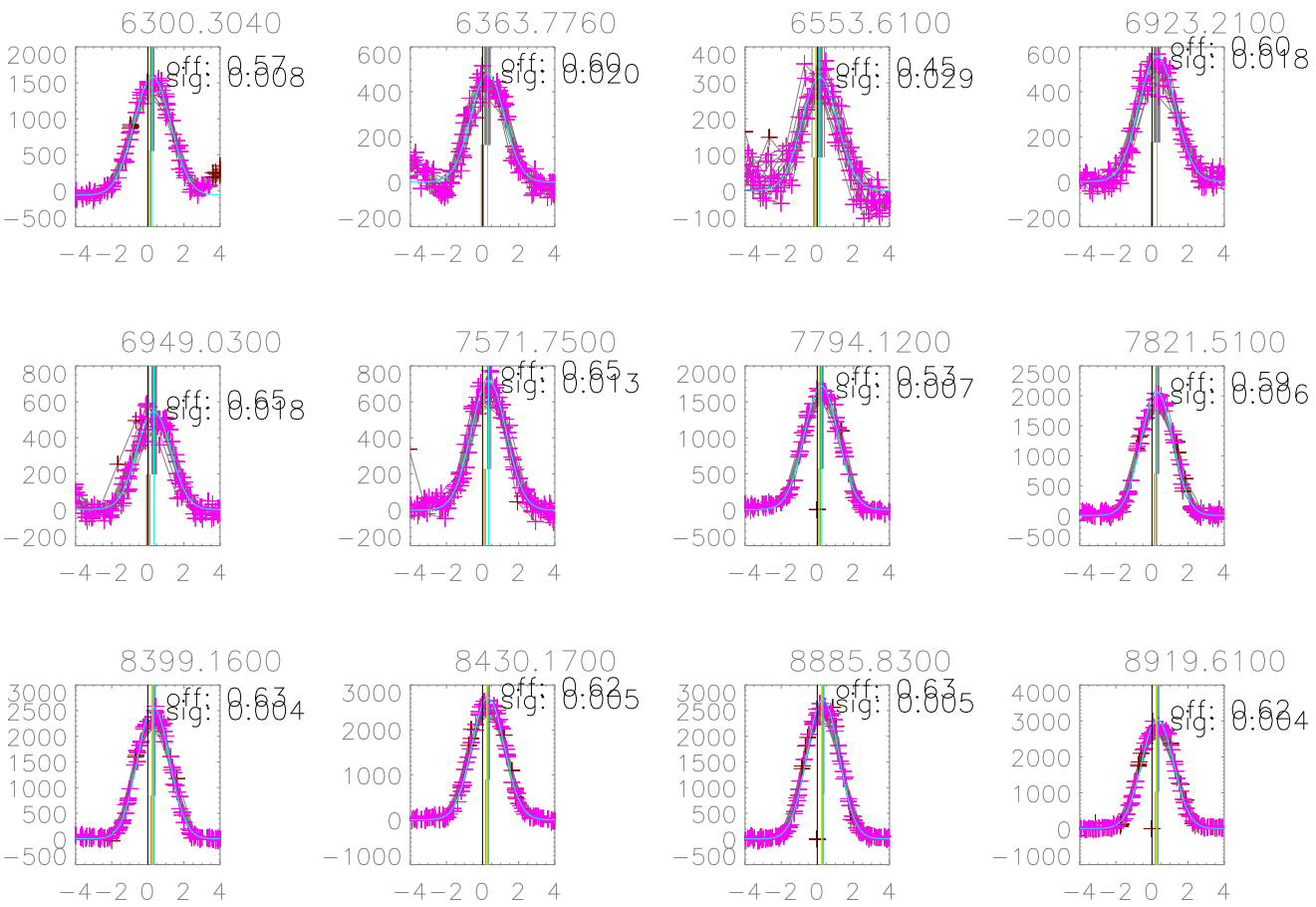

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-r1-00051134.fi
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
81.8
63.6
45.5
27.3

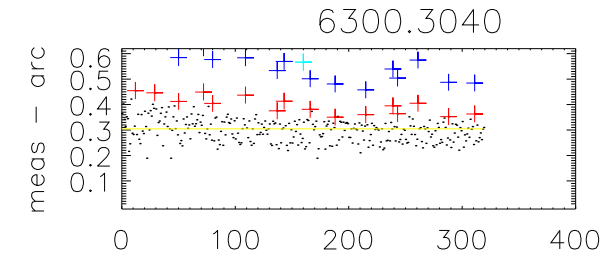

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-r1-00051134.fi
Brightness [electrons/pix]
100
80
60
40
20
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 14.358
Max value = 80.716
Wed Mar 19 13:05:12 2008

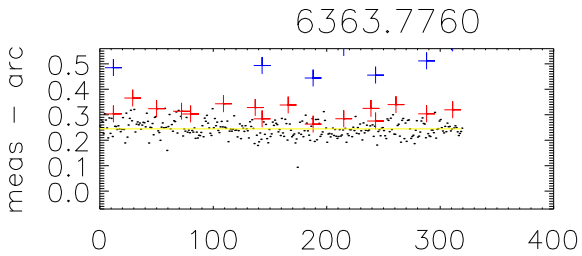

PLATE=2459 MJD=54544 Scattered Light on sdR−r1−00051134.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
13.6
19.1

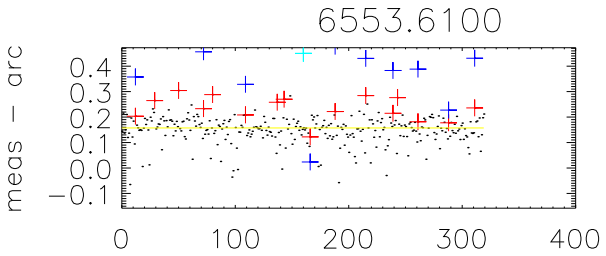

PLATE=2459 MJD=54544 Scattered Light on sdR-r1-00051134.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 10.473
Max value = 20.540
Wed Mar 19 13:07:19 2008

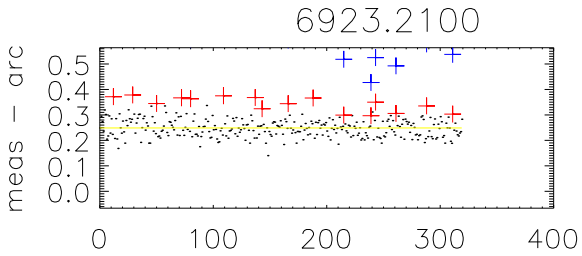

PLATE=2459 MJD=54544 Extraction chi^2 for sdR−r1−00051134.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

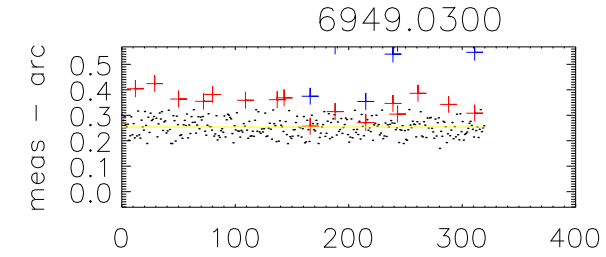

6300.3040
off: 0.57
sig: 0.008
6363.7760
off: 0.60
sig: 0.020
6553.6100
off: 0.45
sig: 0.029
6923.2100
off: 0.60
sig: 0.018
6949.0300
off: 0.65
sig: 0.018
7571.7500
off: 0.65
sig: 0.013
7794.1200
off: 0.53
sig: 0.007
7821.5100
off: 0.58
sig: 0.006
8399.1600
off: 0.63
sig: 0.004
8430.1700
off: 0.62
sig: 0.005
8885.8300
off: 0.63
sig: 0.005
8919.6100
off: 0.62
sig: 0.004

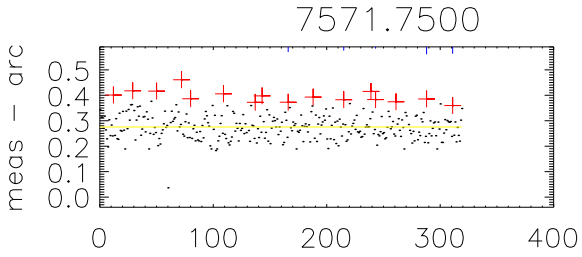

6300.3040
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

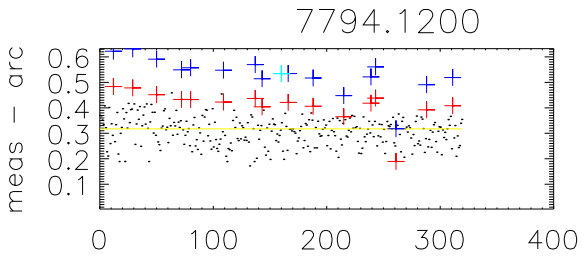

6363.7760
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

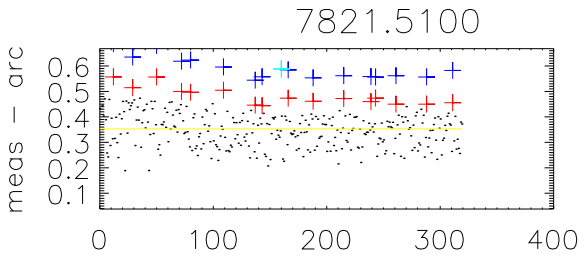

6553.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

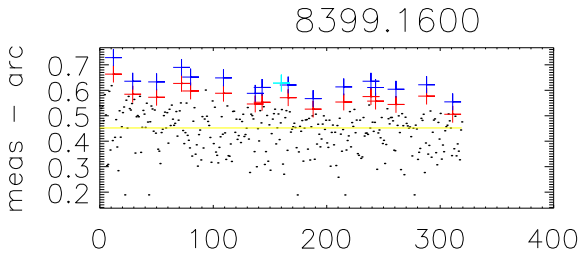

6923.2100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

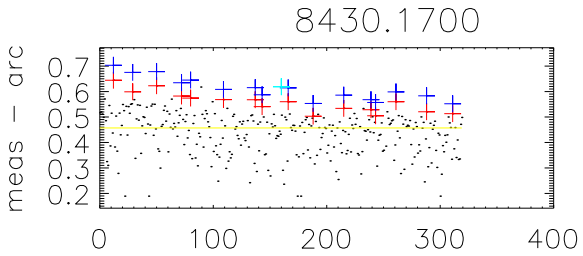

6949.0300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

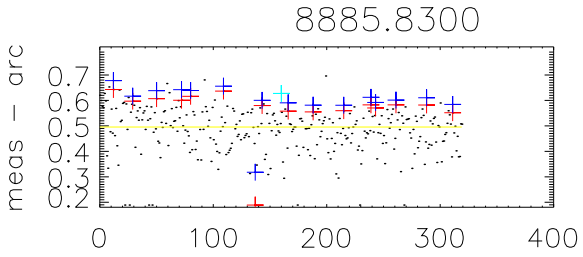

7571.7500
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

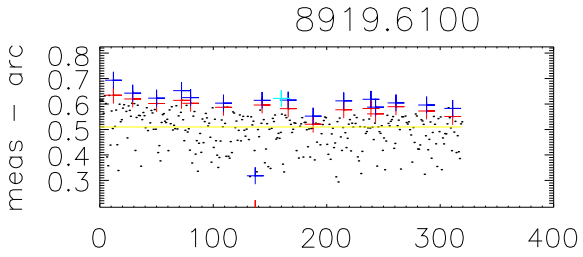

7794.1200
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

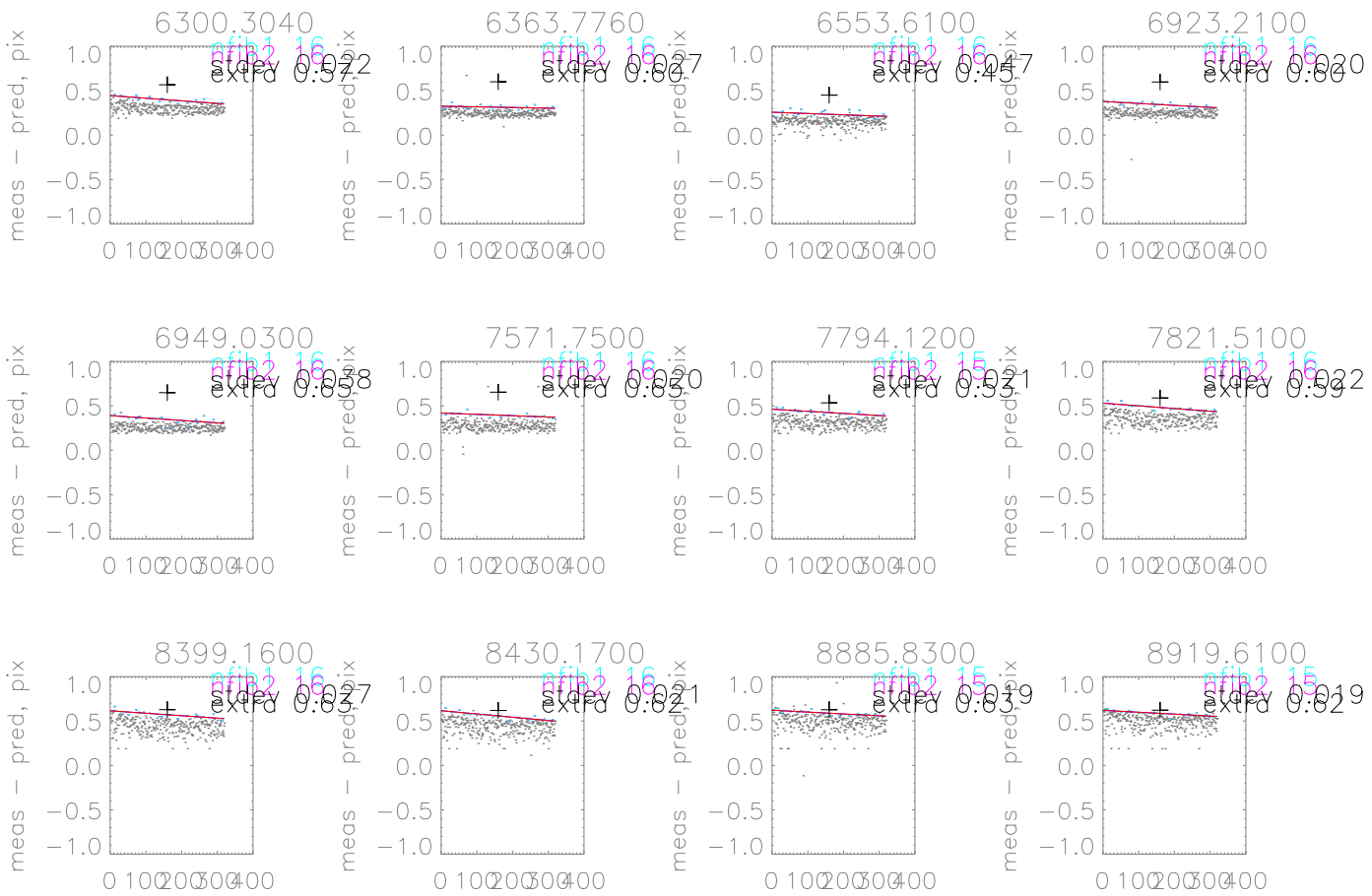

7821.5100
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

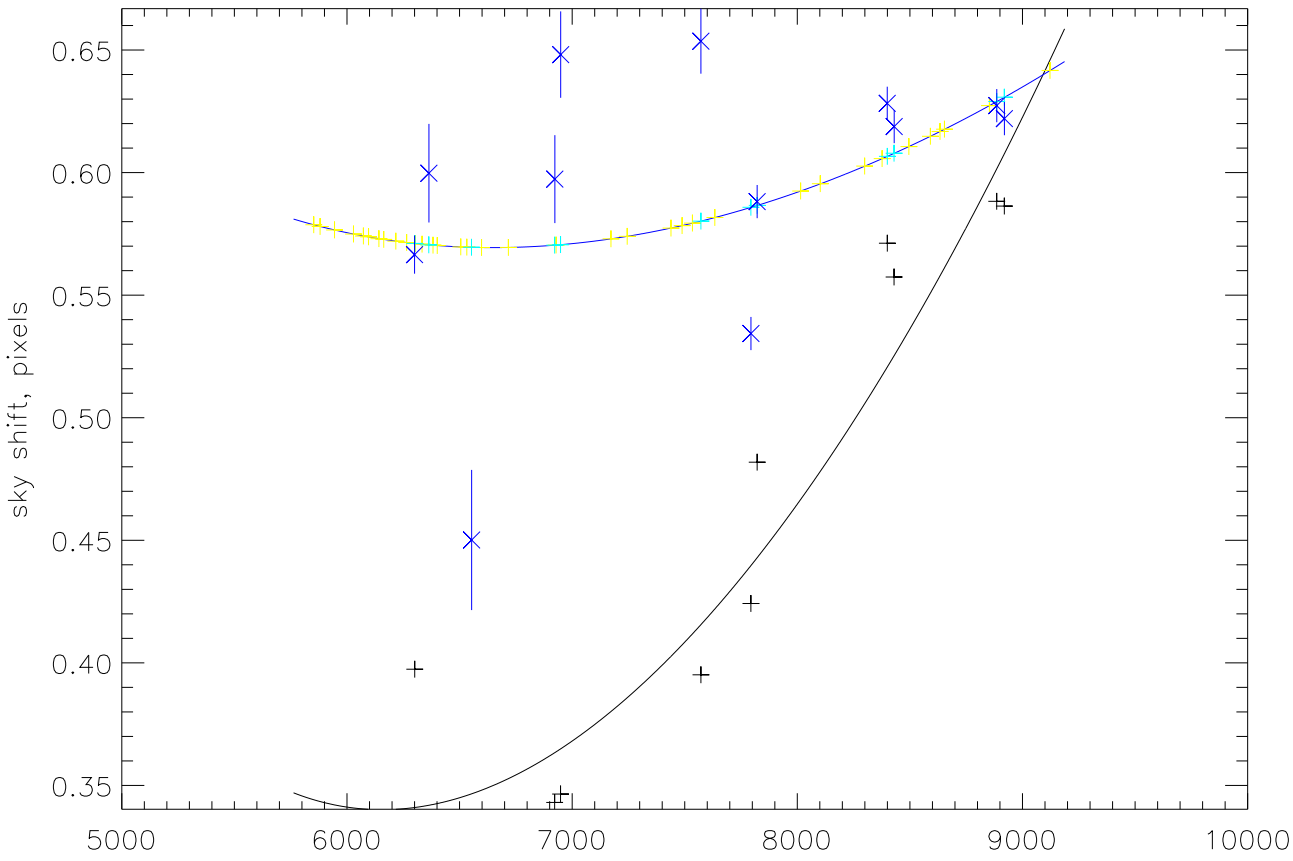

8399.1600
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

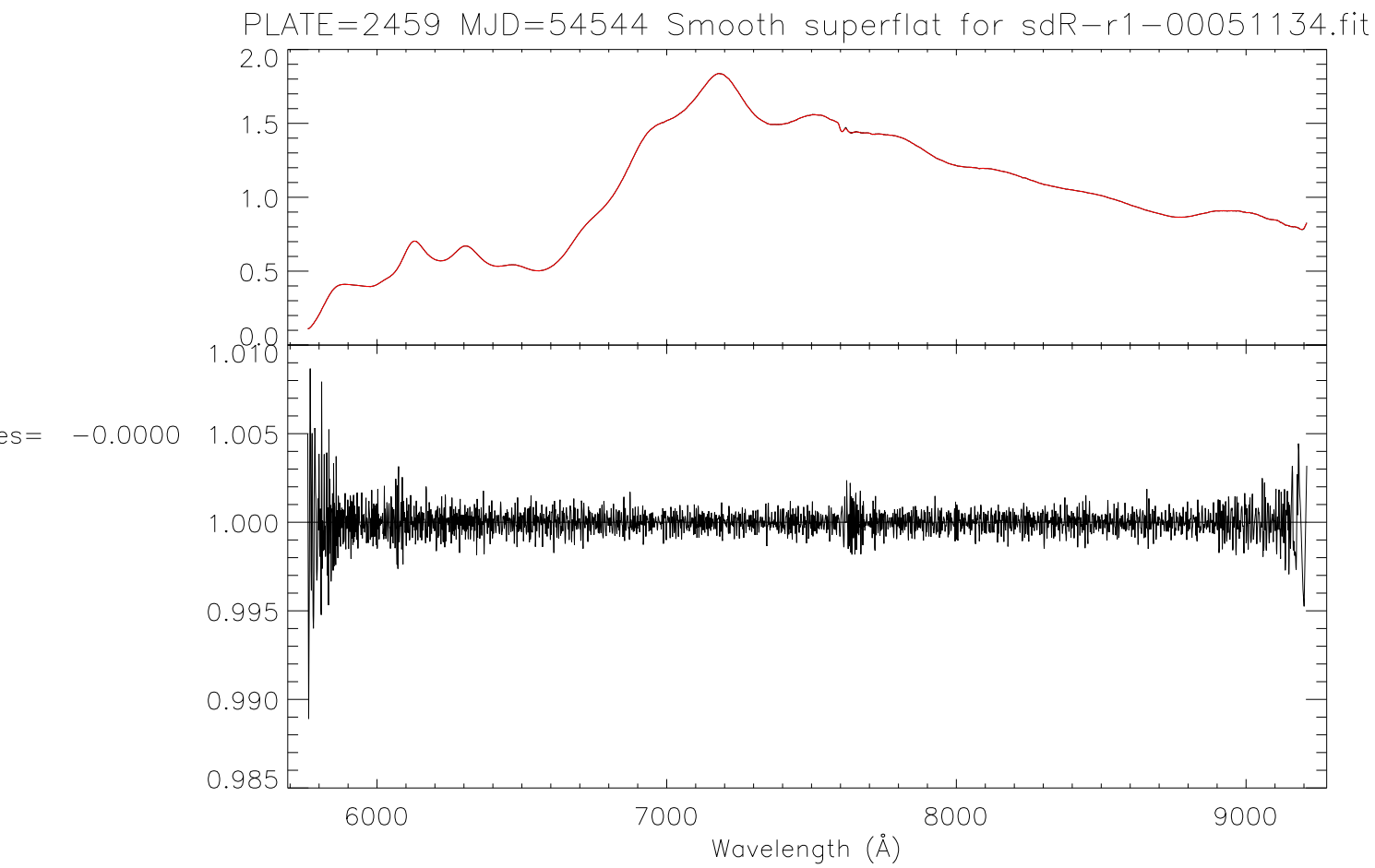

8430.1700
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

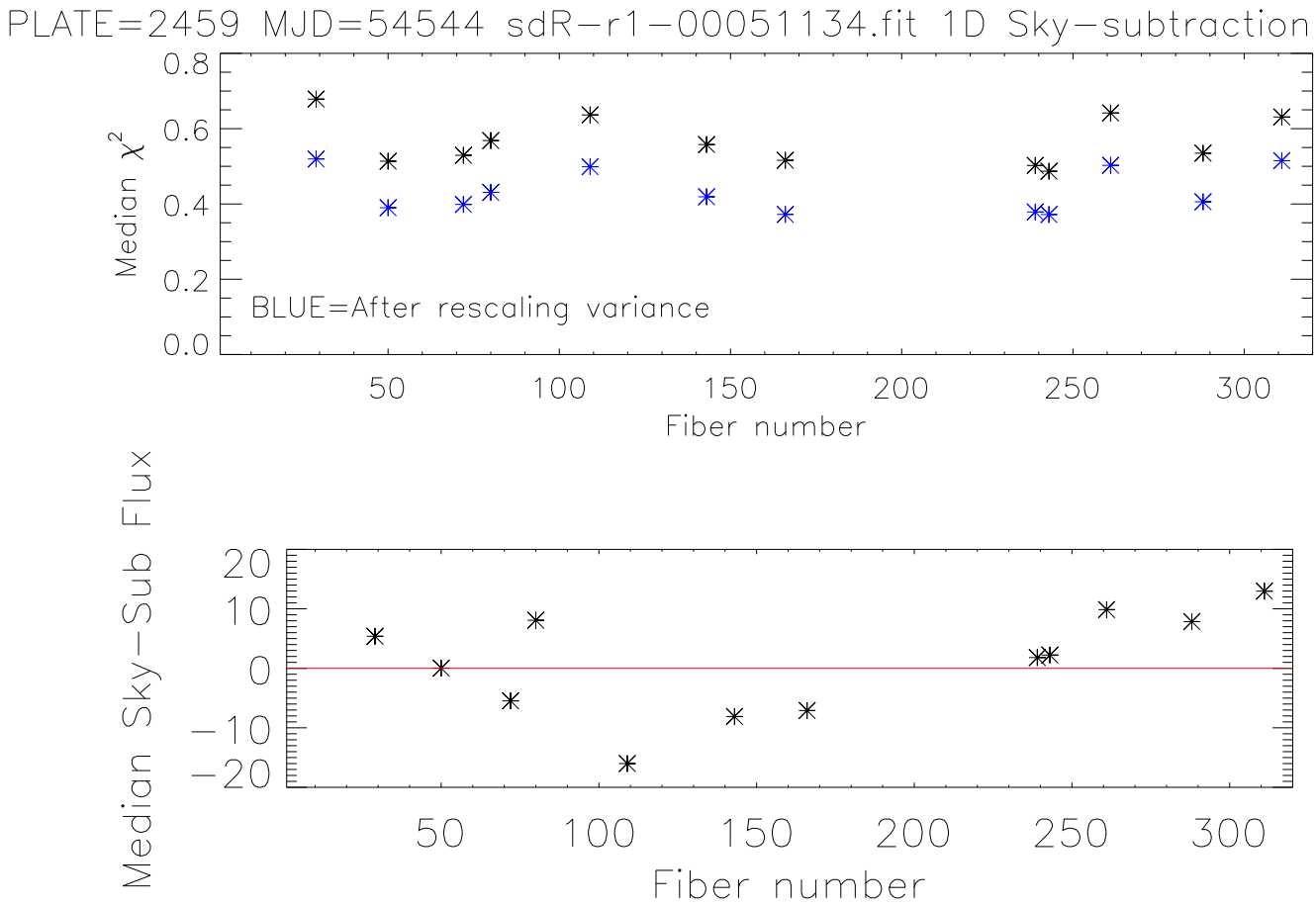

8885.8300
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

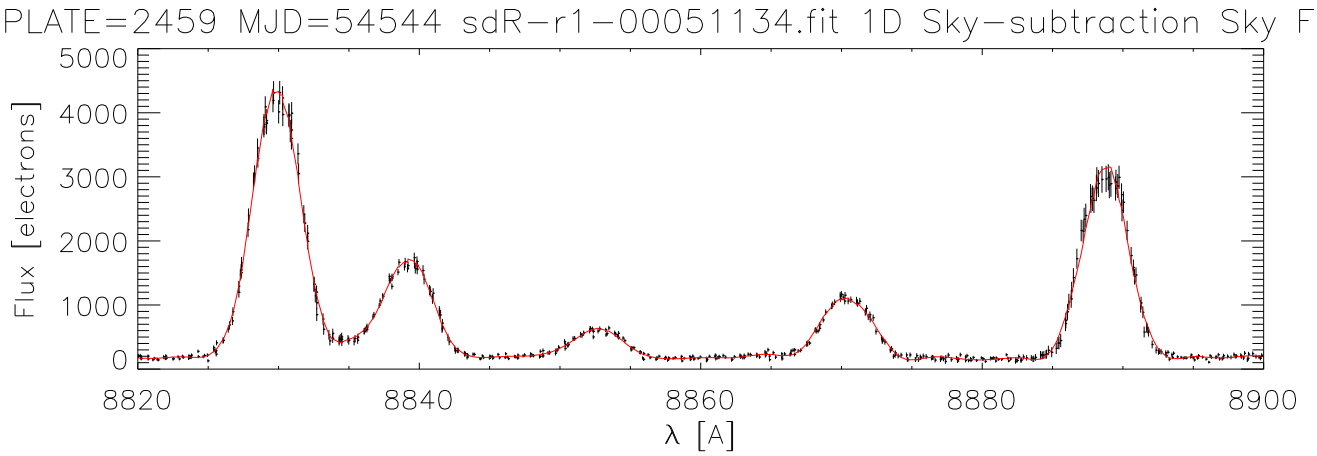

8919.6100
meas − arc
0.8
0.7
0.6
0.5
0.4
0.3
0
100
200
300
400

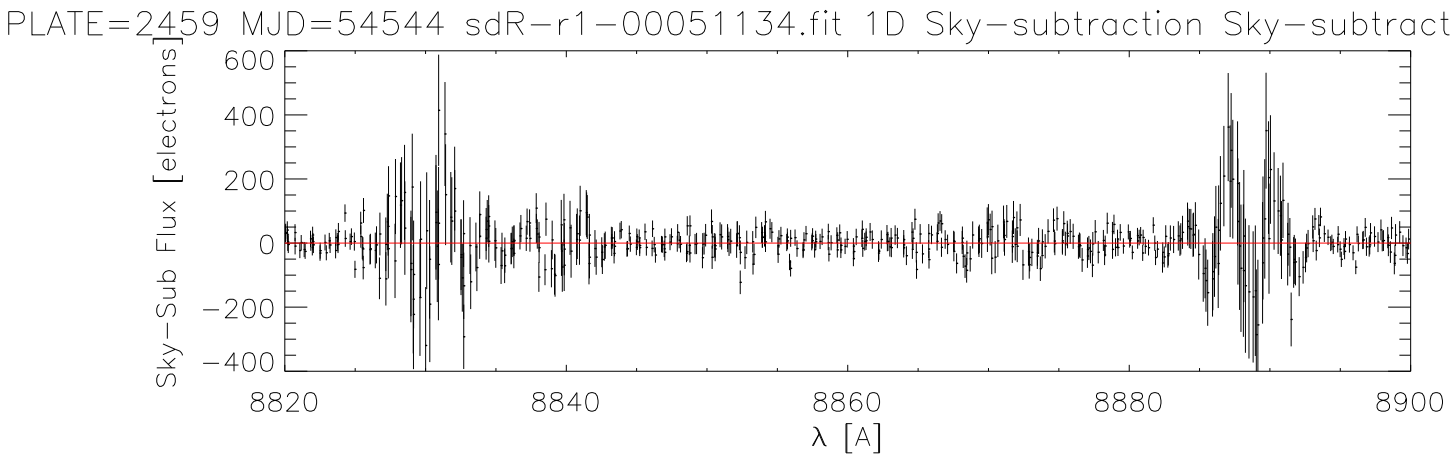

6300.3040
stdev 0.022
extra 0.57
6363.7760
stdev 0.027
extra 0.86
6553.6100
stdev 0.047
extra 0.45
6923.2100
stdev 0.020
extra 0.80
6949.0300
stdev 0.038
extra 0.85
7571.7500
stdev 0.020
extra 0.83
7794.1200
stdev 0.021
extra 0.53
7821.5100
stdev 0.022
extra 0.59
8399.1600
stdev 0.027
extra 0.63
8430.1700
stdev 0.021
extra 0.62
8885.8300
stdev 0.019
extra 0.63
8919.6100
stdev 0.019
extra 0.62
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

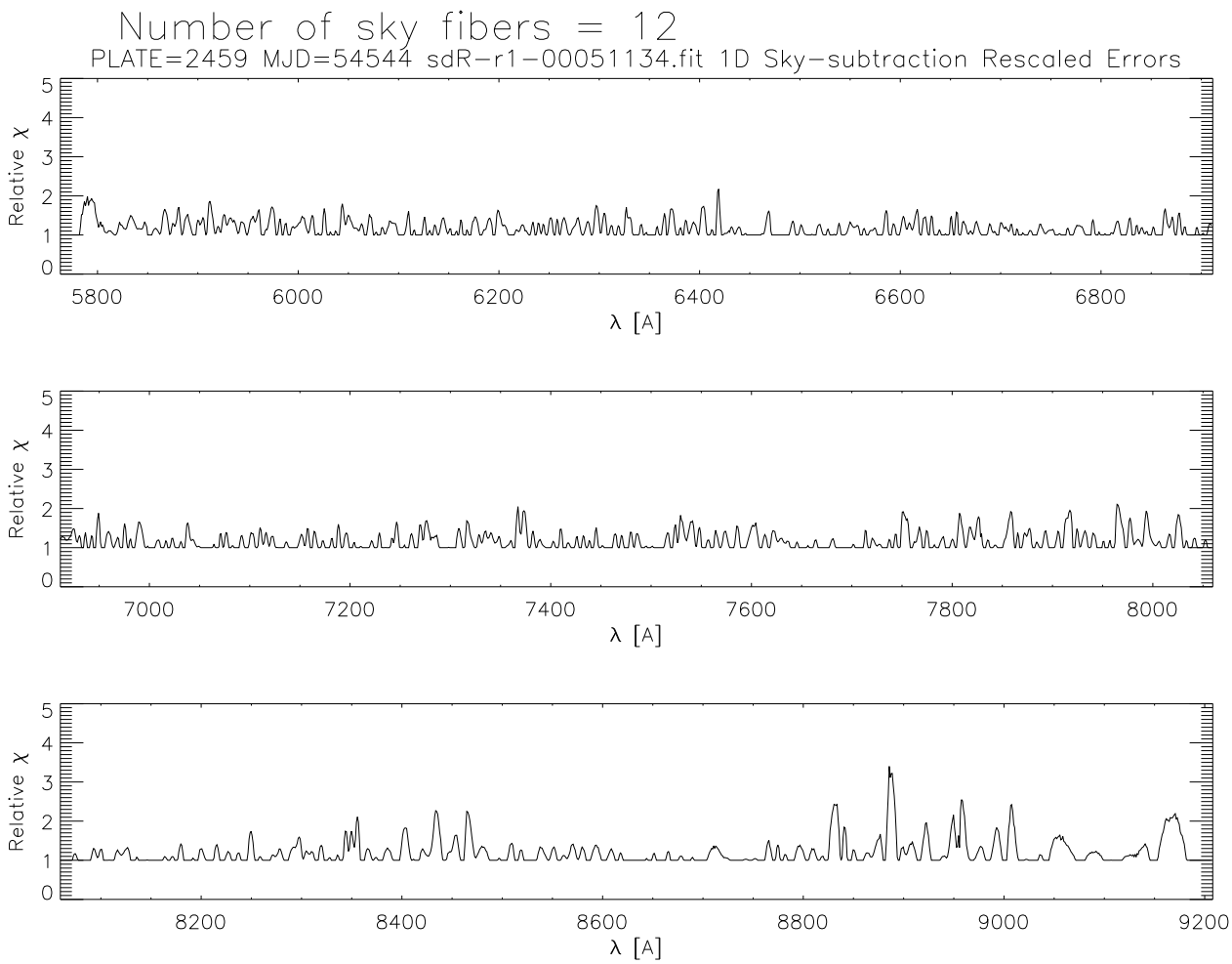

sky shift, pixels
0.65
0.60
0.55
0.50
0.45
0.40
0.35
5000
6000
7000
8000
9000
10000

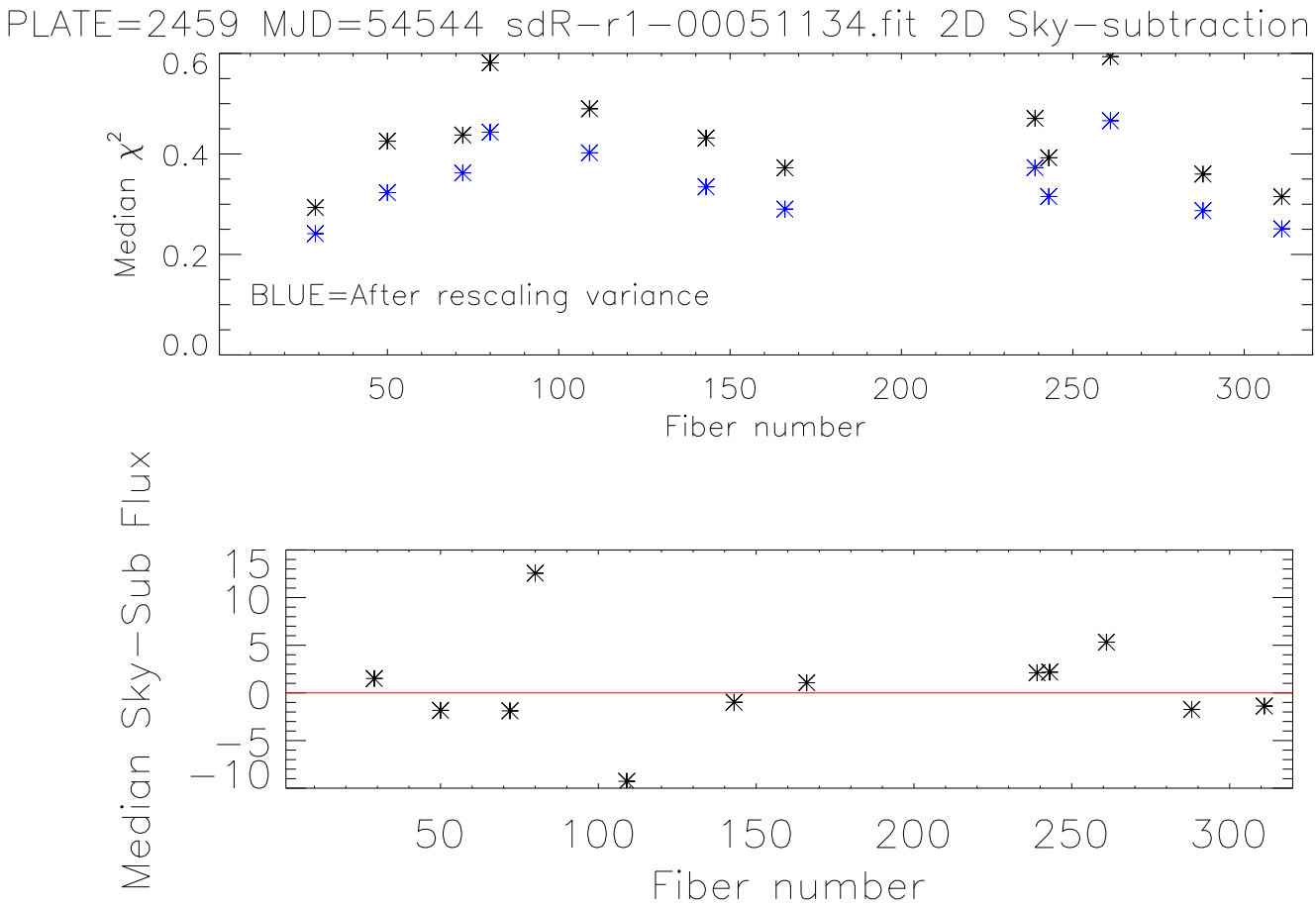

PLATE=2459 MJD=54544 Smooth superflat for sdR-r1-00051134.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

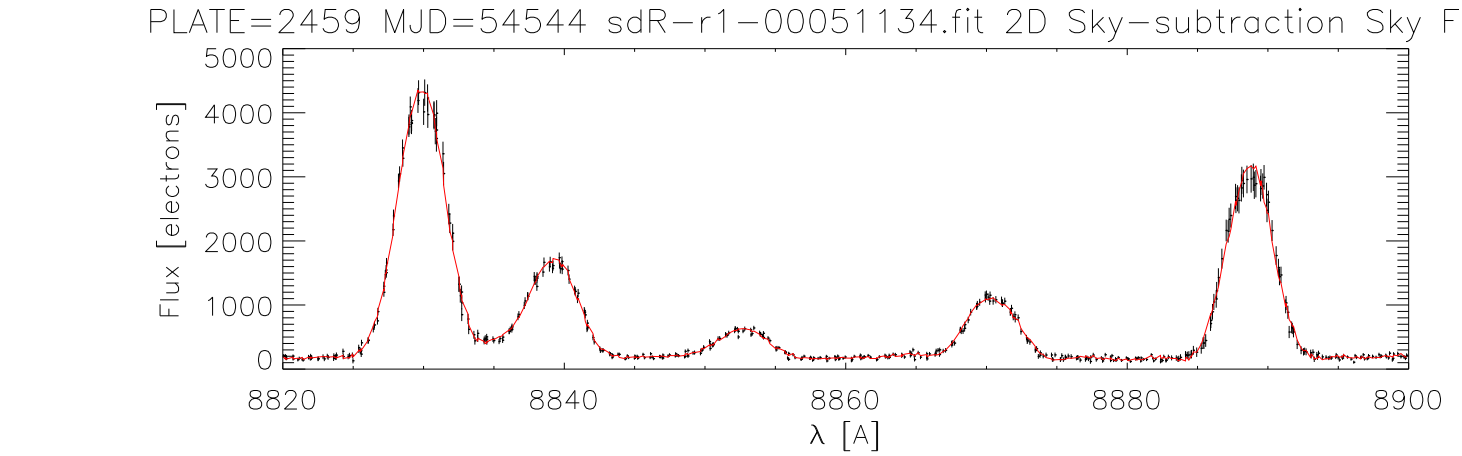

PLATE=2459 MJD=54544 sdR-r1-00051134.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
10
0
-10
-20
50
100
150
200
250
300
Fiber number

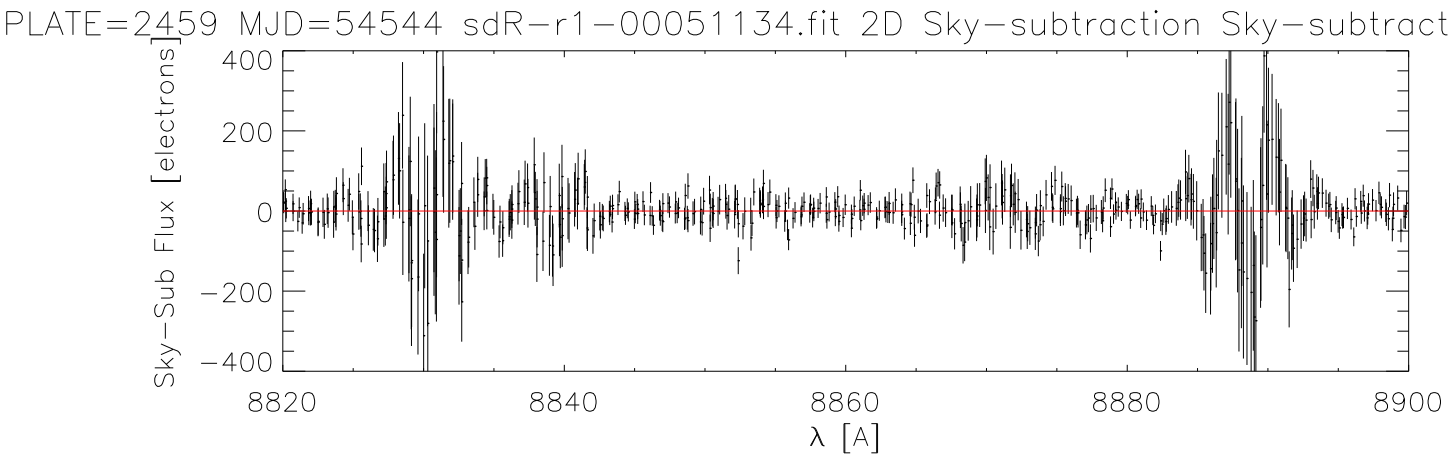

PLATE=2459 MJD=54544 sdR-r1-00051134.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

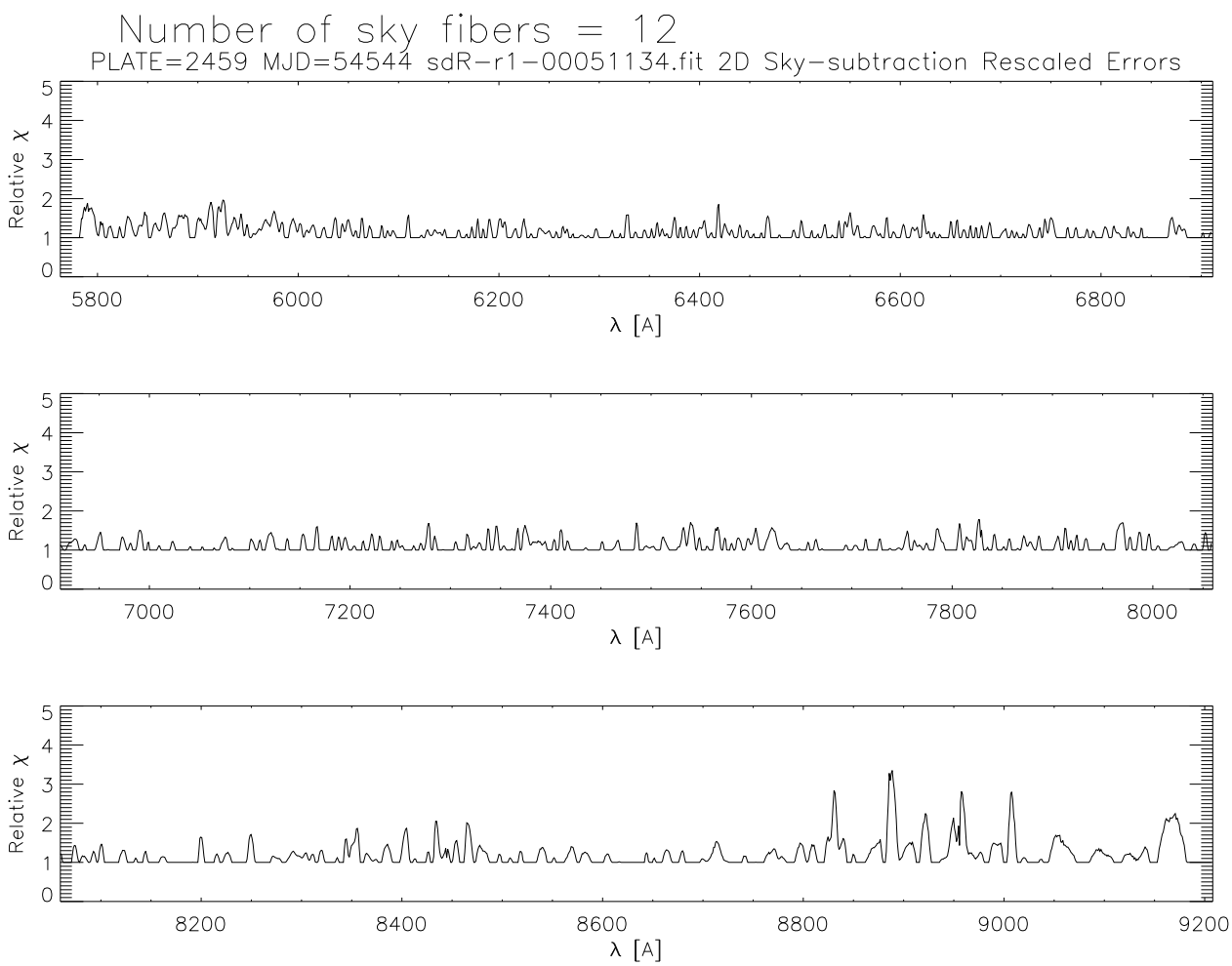

PLATE=2459 MJD=54544 sdR-r1-00051134.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

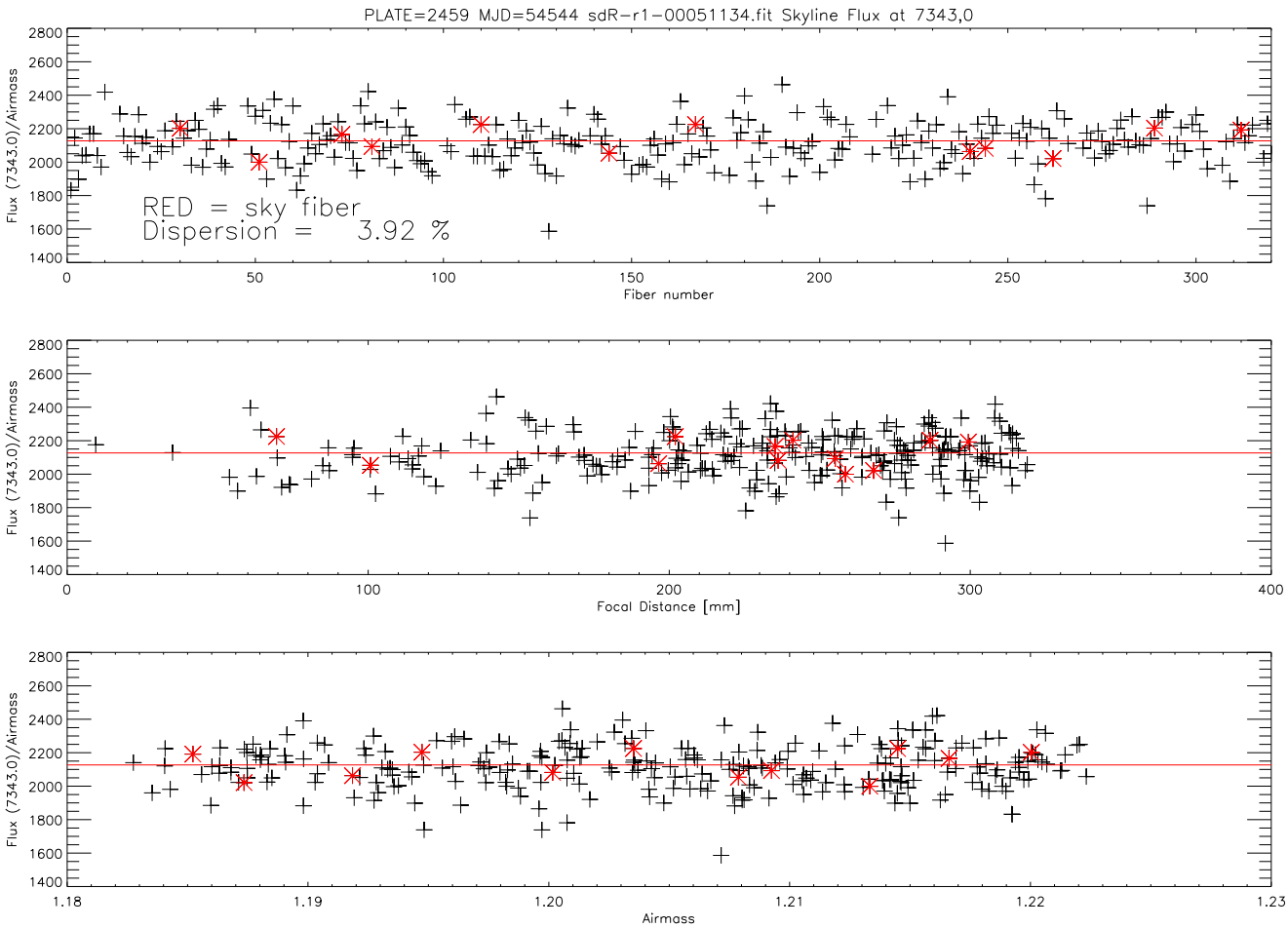

Number of sky fibers = 12
PLATE=2459 MJD=54544 sdR-r1-00051134.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

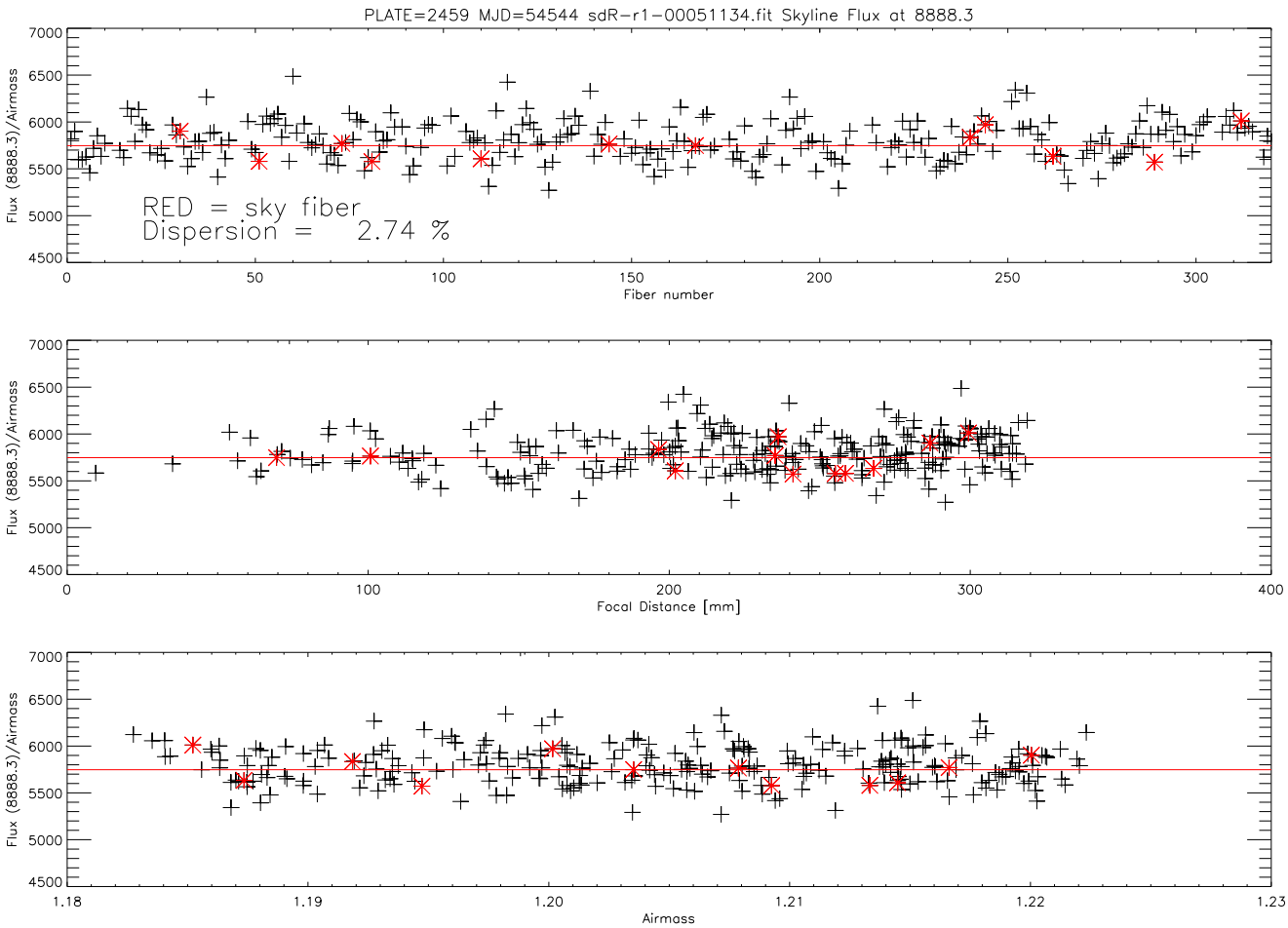

PLATE=2459 MJD=54544 sdR-r1-00051134.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
15
10
5
0
-5
-10
50
100
150
200
250
300
Fiber number

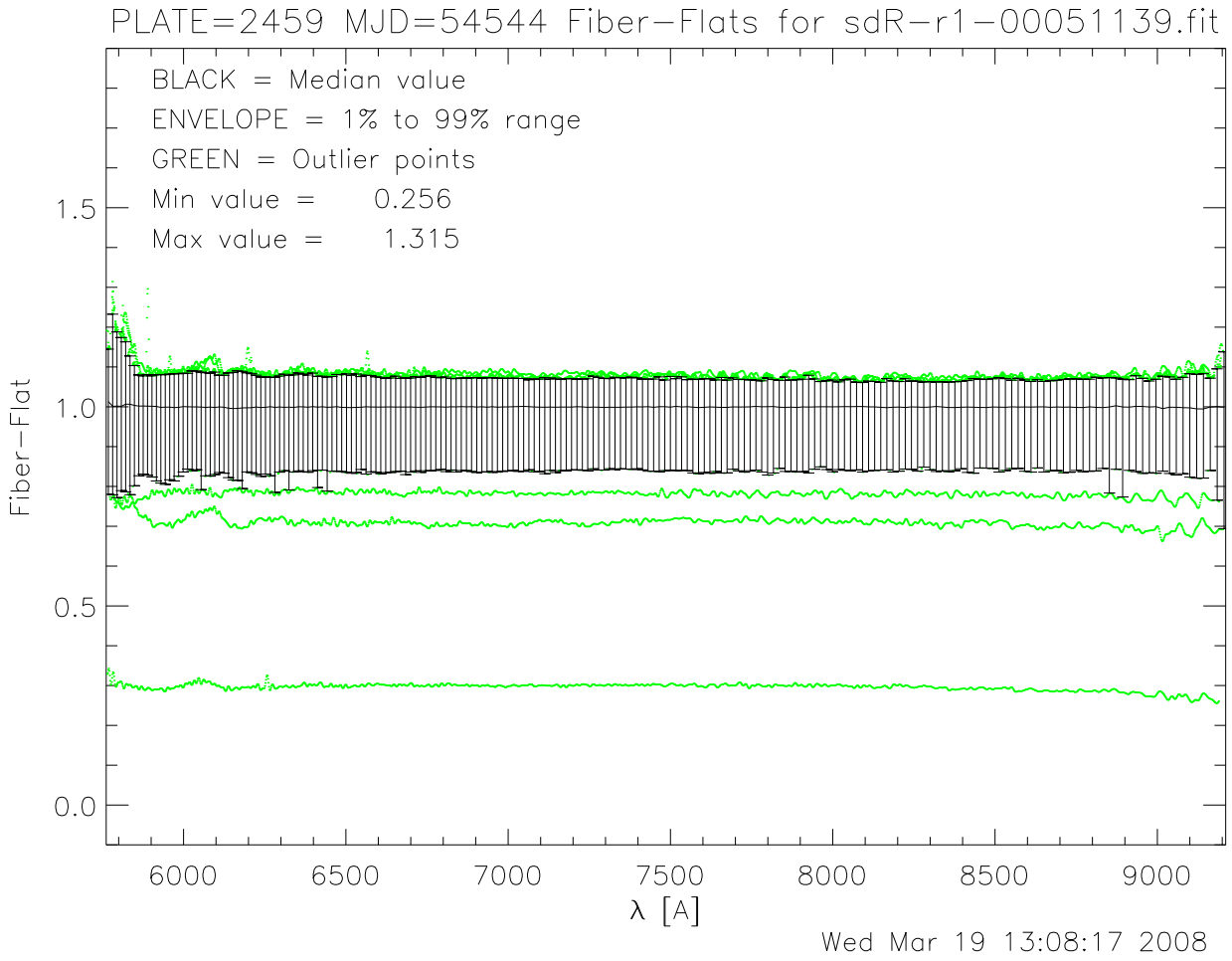

PLATE=2459 MJD=54544 sdR-r1-00051134.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

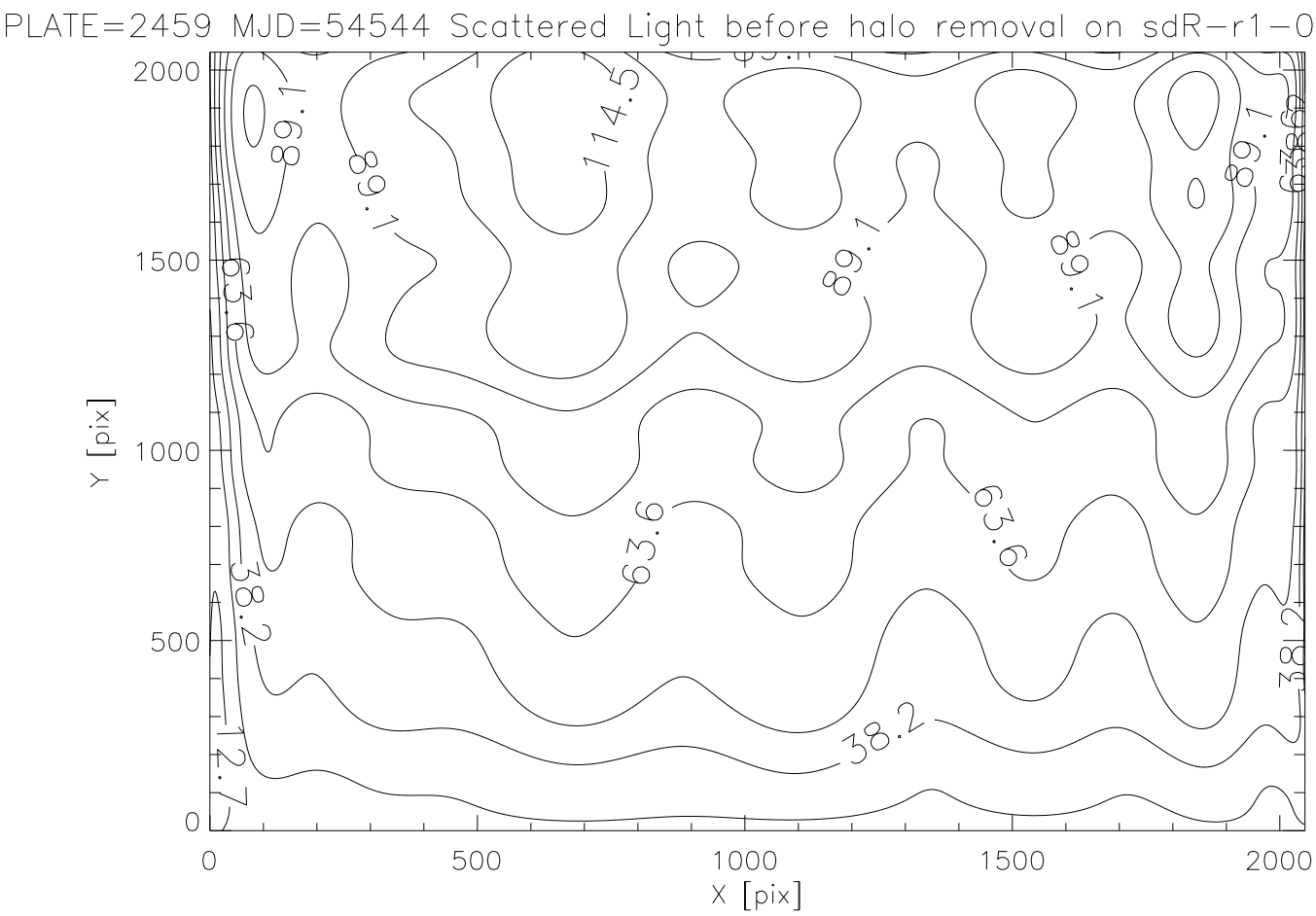

PLATE=2459 MJD=54544 sdR-r1-00051134.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

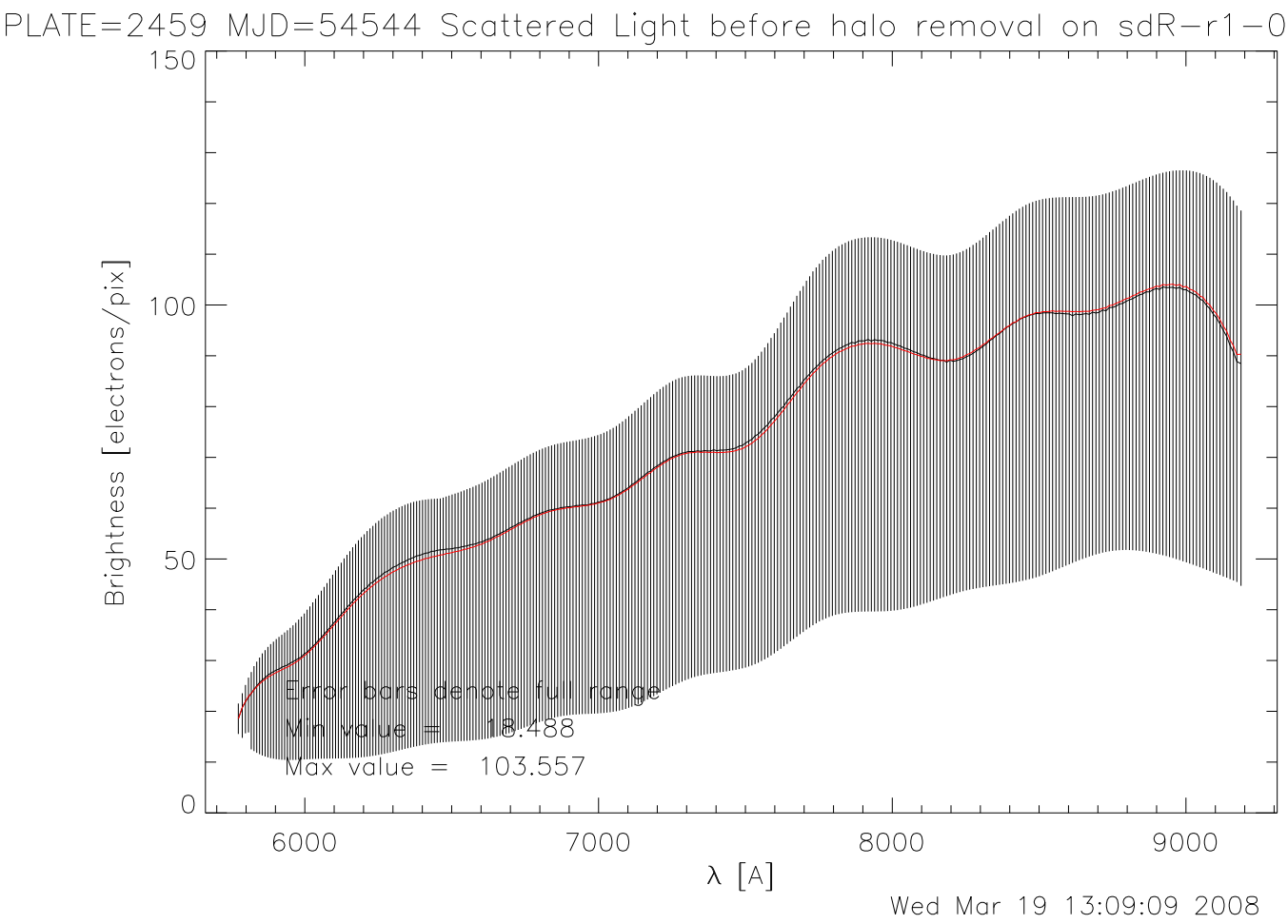

Number of sky fibers = 12
PLATE=2459 MJD=54544 sdR-r1-00051134.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

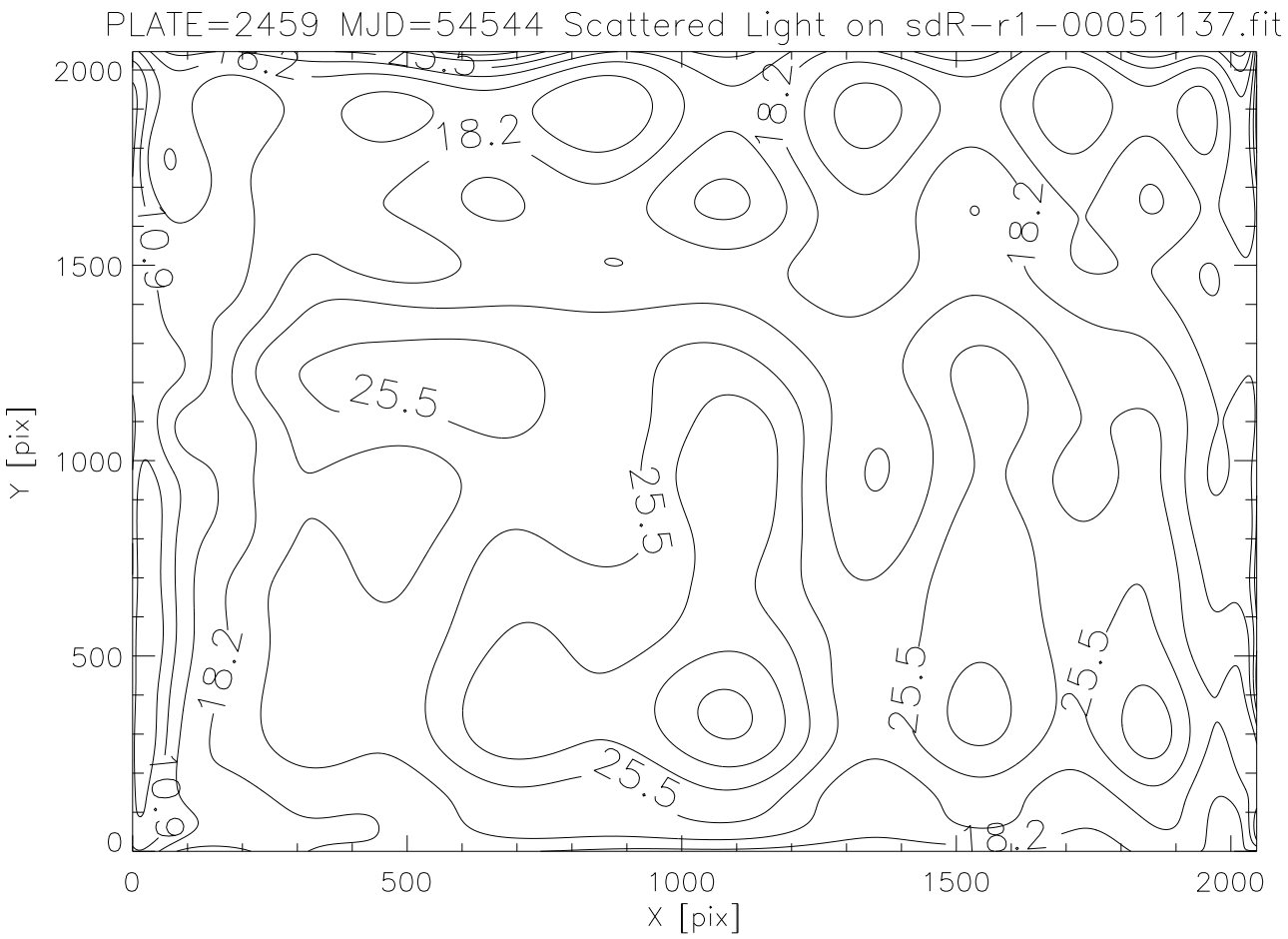

PLATE=2459 MJD=54544 sdR-r1-00051134.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.92 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

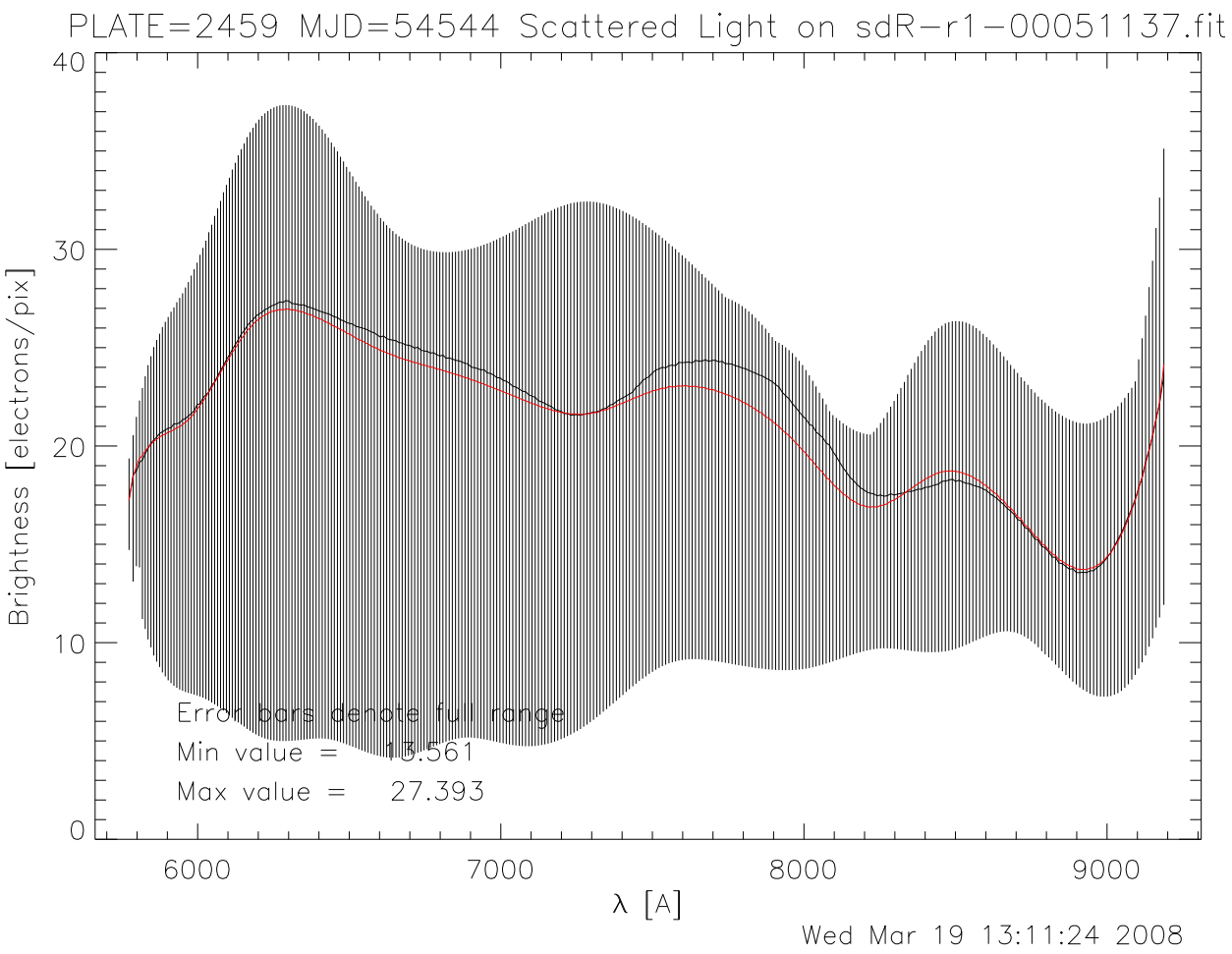

PLATE=2459 MJD=54544 sdR-r1-00051134.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.74 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

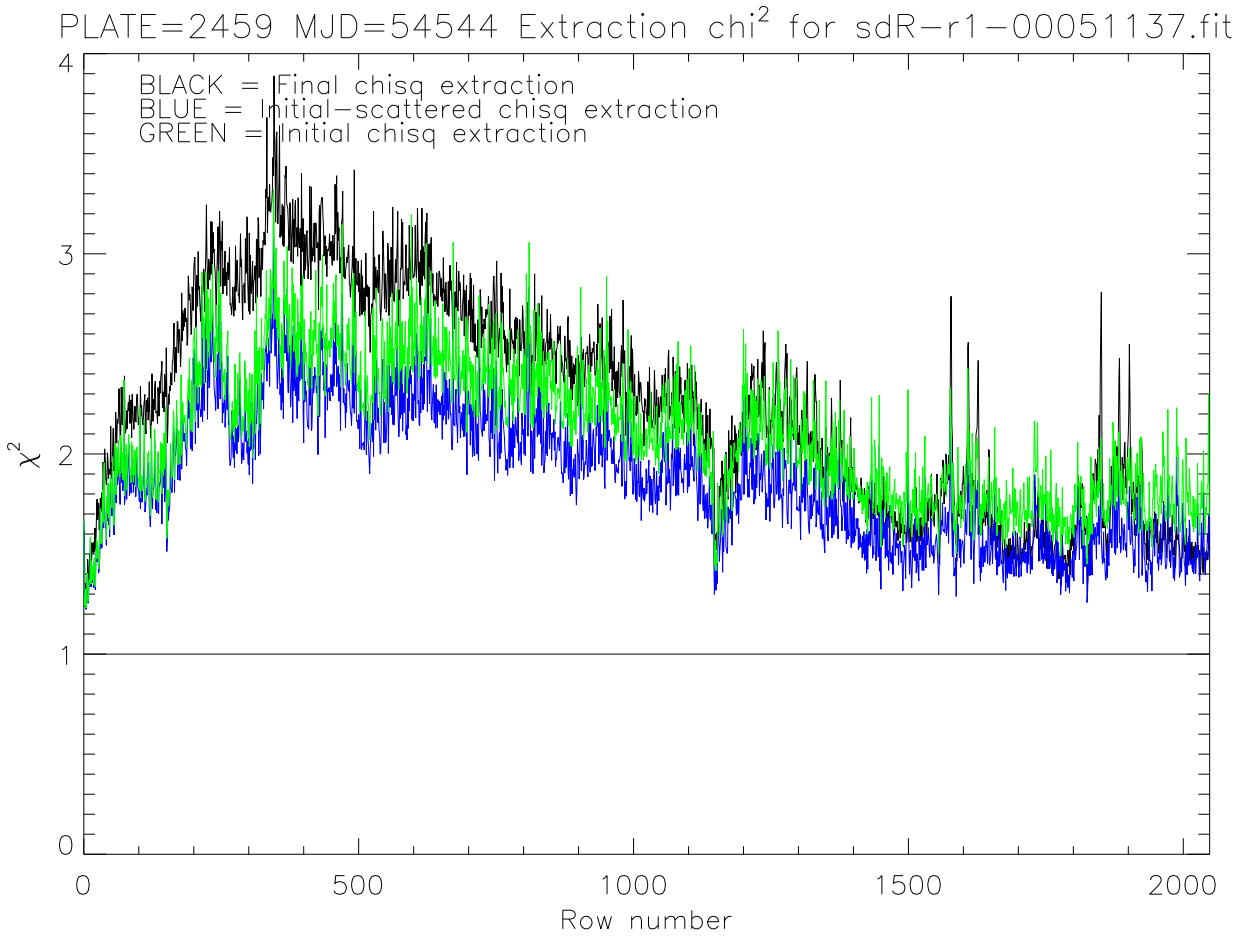

PLATE=2459 MJD=54544 Fiber−Flats for sdR−r1−00051139.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.256
Max value = 1.315
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 19 13:08:17 2008

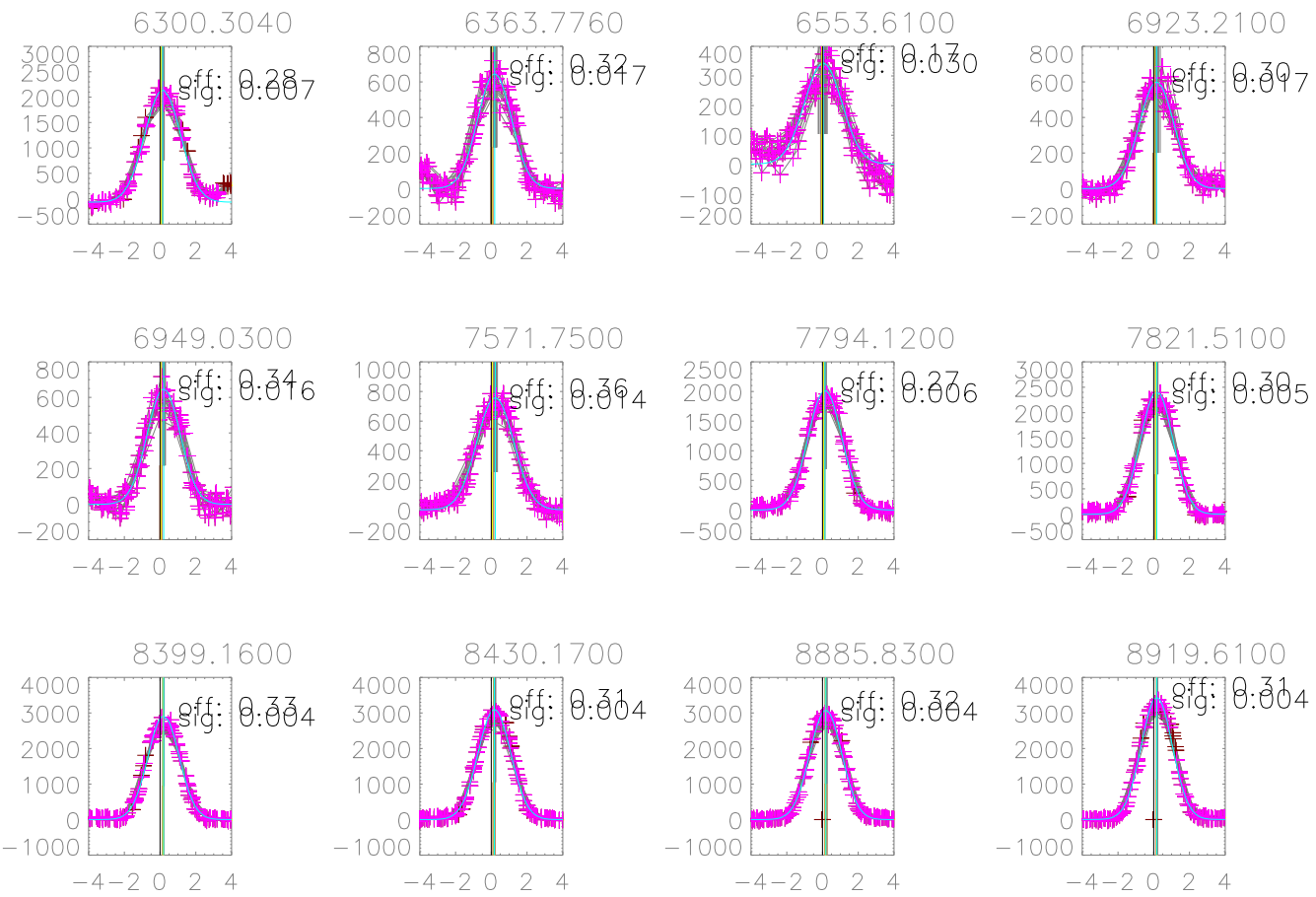

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-r1-00051137.fi
89.1
114.5
63.6
38.2
12.7
Y [pix]
X [pix]
0
500
1000
1500
2000

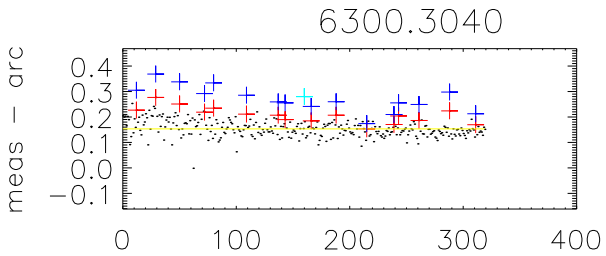

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-r1-00051137.fi
150
100
50
0
Brightness [electrons/pix]
Error bars denote full range
Min value = 18.488
Max value = 103.557
6000
7000
8000
9000
λ [A]
Wed Mar 19 13:09:09 2008

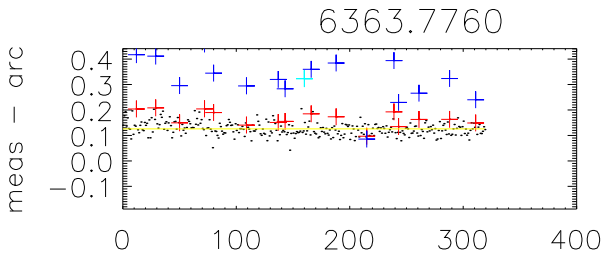

PLATE=2459 MJD=54544 Scattered Light on sdR-r1-00051137.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
18.2
25.5

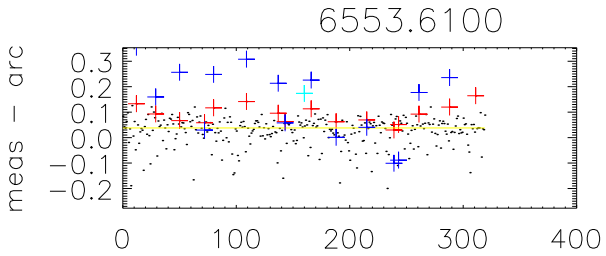

PLATE=2459 MJD=54544 Scattered Light on sdR-r1-00051137.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 13.561
Max value = 27.393
Wed Mar 19 13:11:24 2008

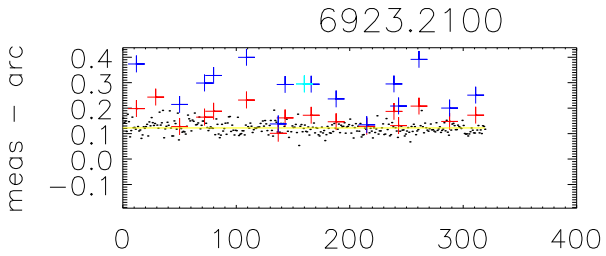

PLATE=2459 MJD=54544 Extraction chi^2 for sdR−r1−00051137.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

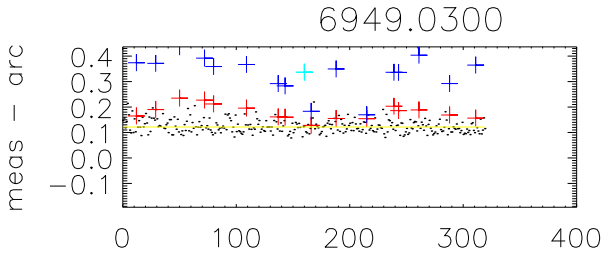

6300.3040
off: 0.28
sig: 0.007
6363.7760
off: 0.32
sig: 0.017
6553.6100
off: 0.17
sig: 0.030
6923.2100
off: 0.30
sig: 0.017
6949.0300
off: 0.34
sig: 0.016
7571.7500
off: 0.36
sig: 0.014
7794.1200
off: 0.27
sig: 0.006
7821.5100
off: 0.30
sig: 0.005
8399.1600
off: 0.33
sig: 0.004
8430.1700
off: 0.31
sig: 0.004
8885.8300
off: 0.32
sig: 0.004
8919.6100
off: 0.31
sig: 0.004

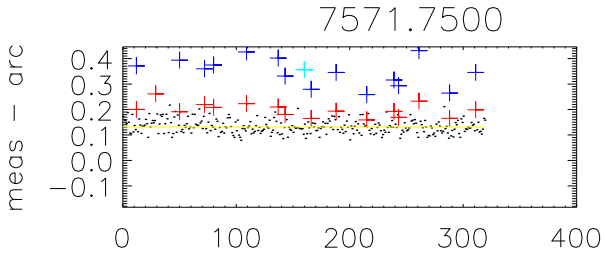

6300.3040
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

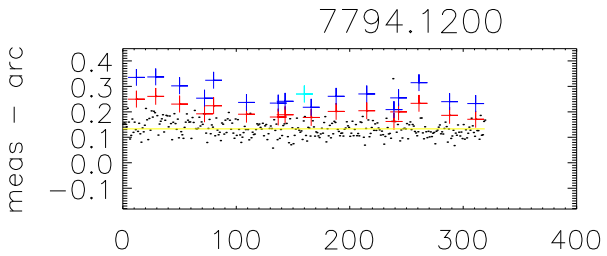

6363.7760
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

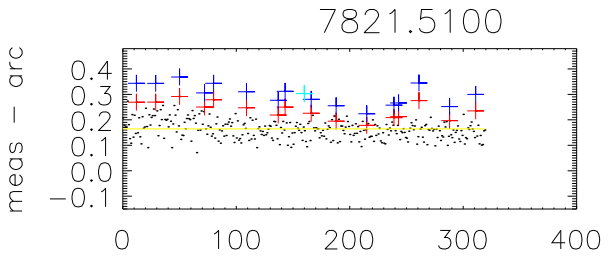

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

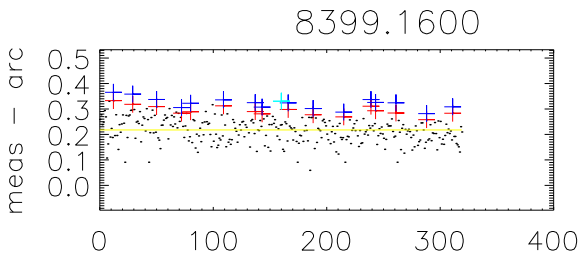

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

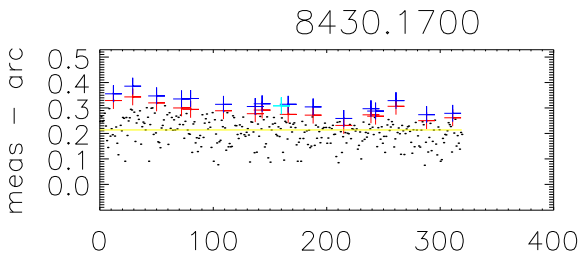

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

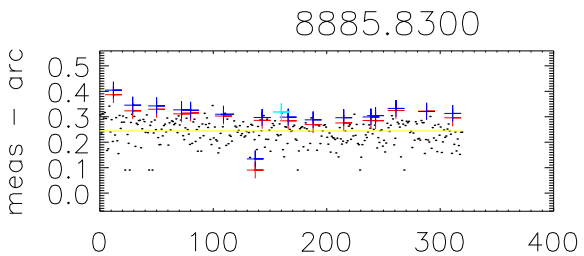

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

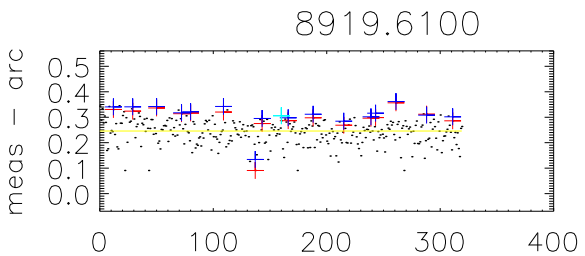

7794.1200
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

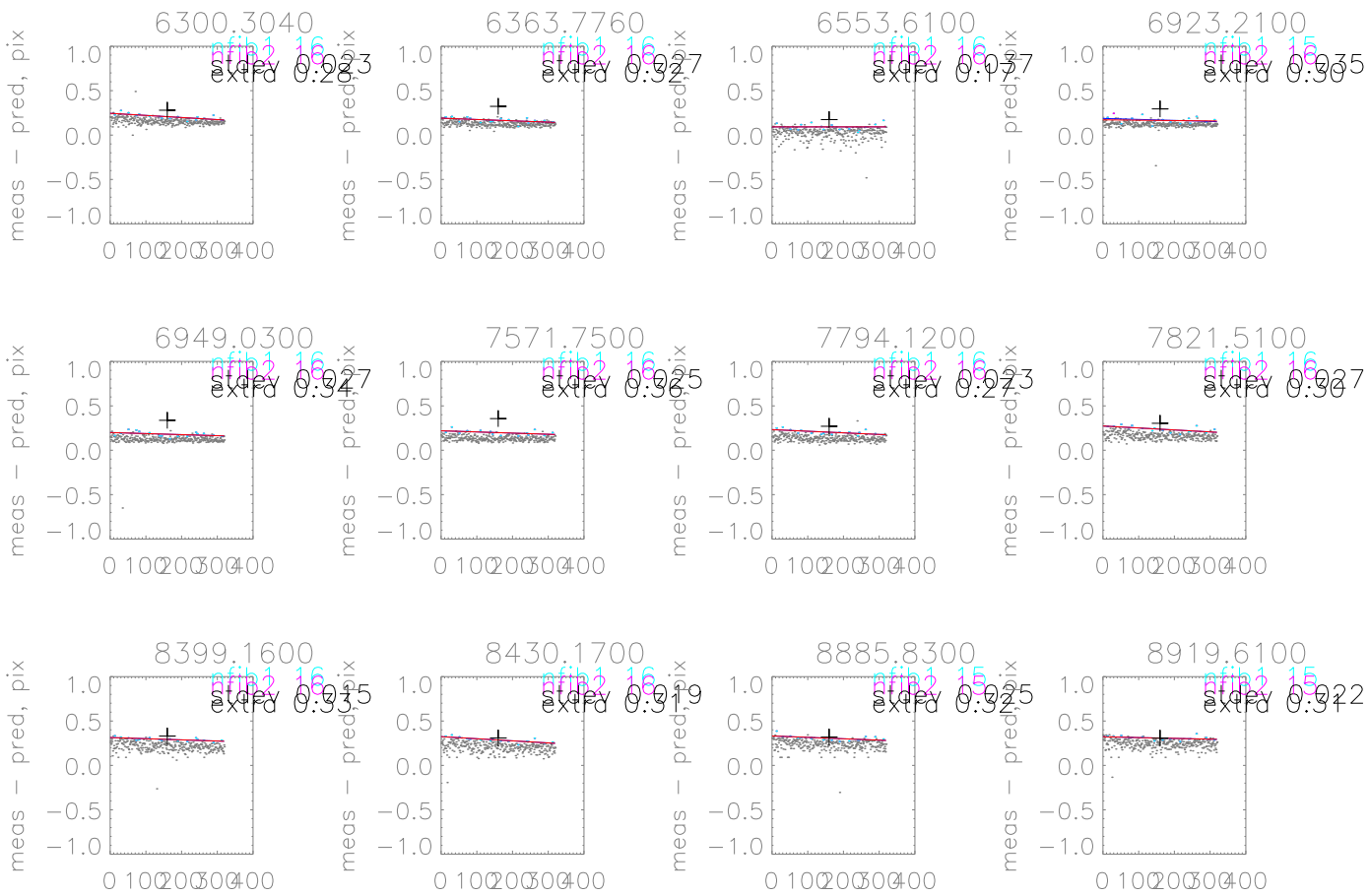

7821.5100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

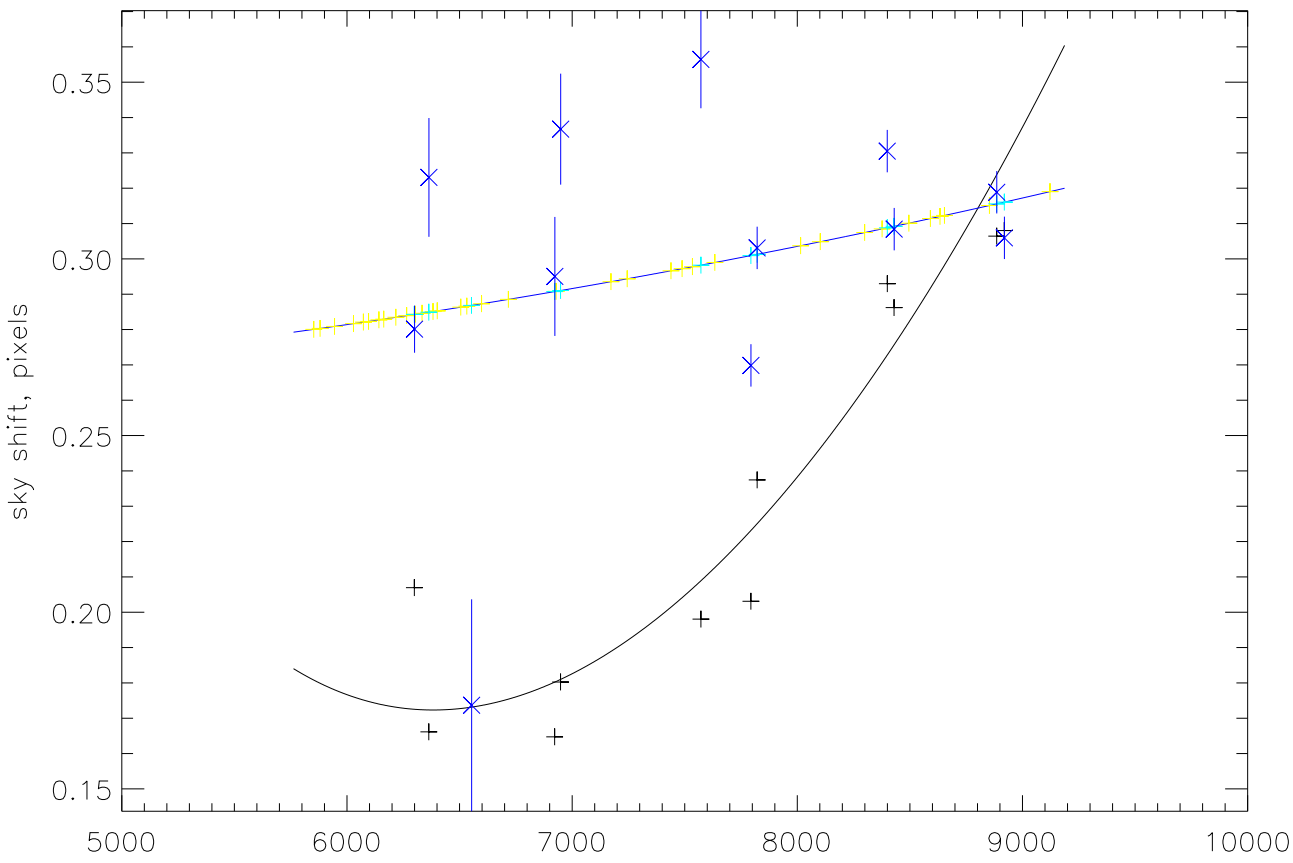

8399.1600
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

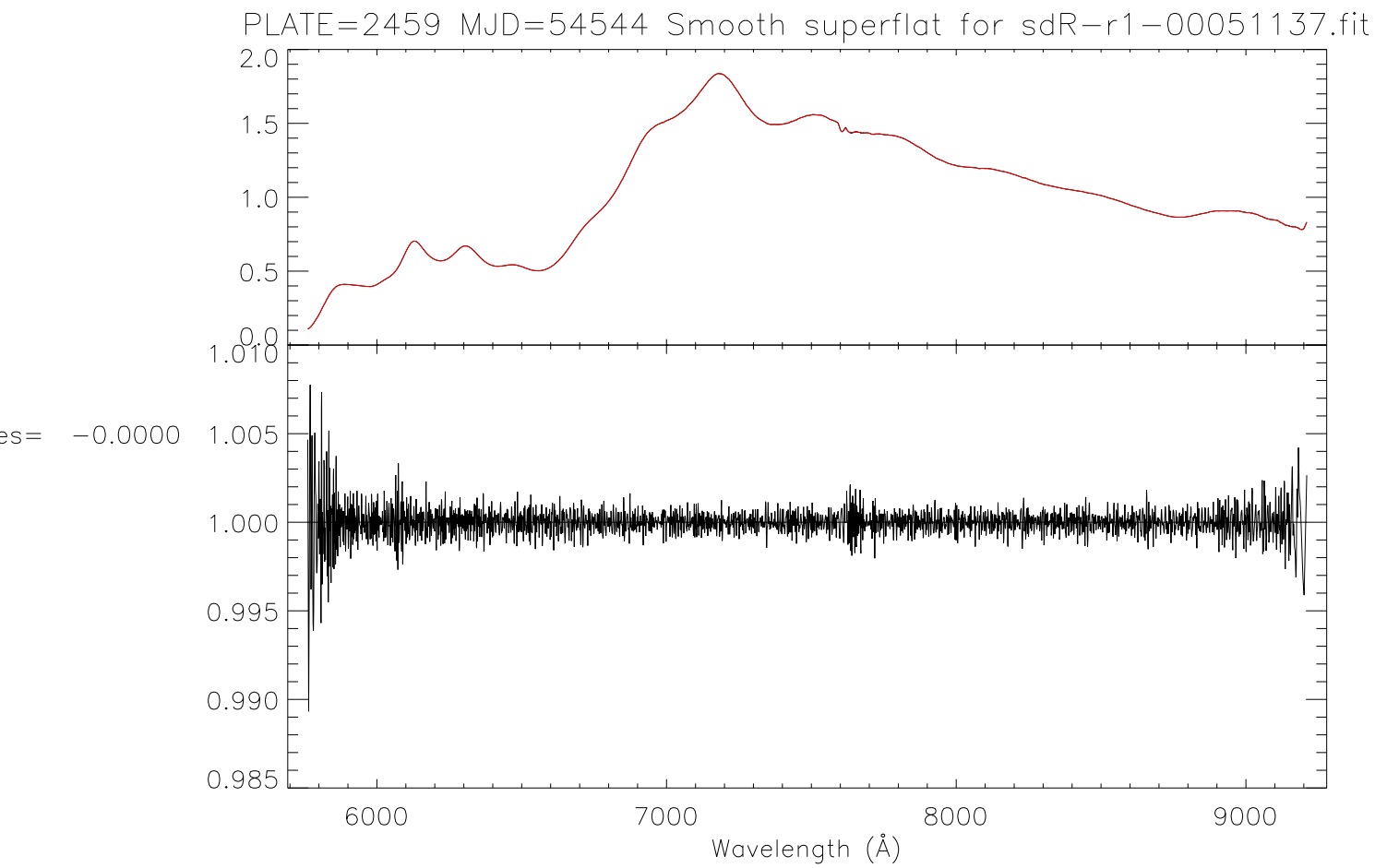

8430.1700
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

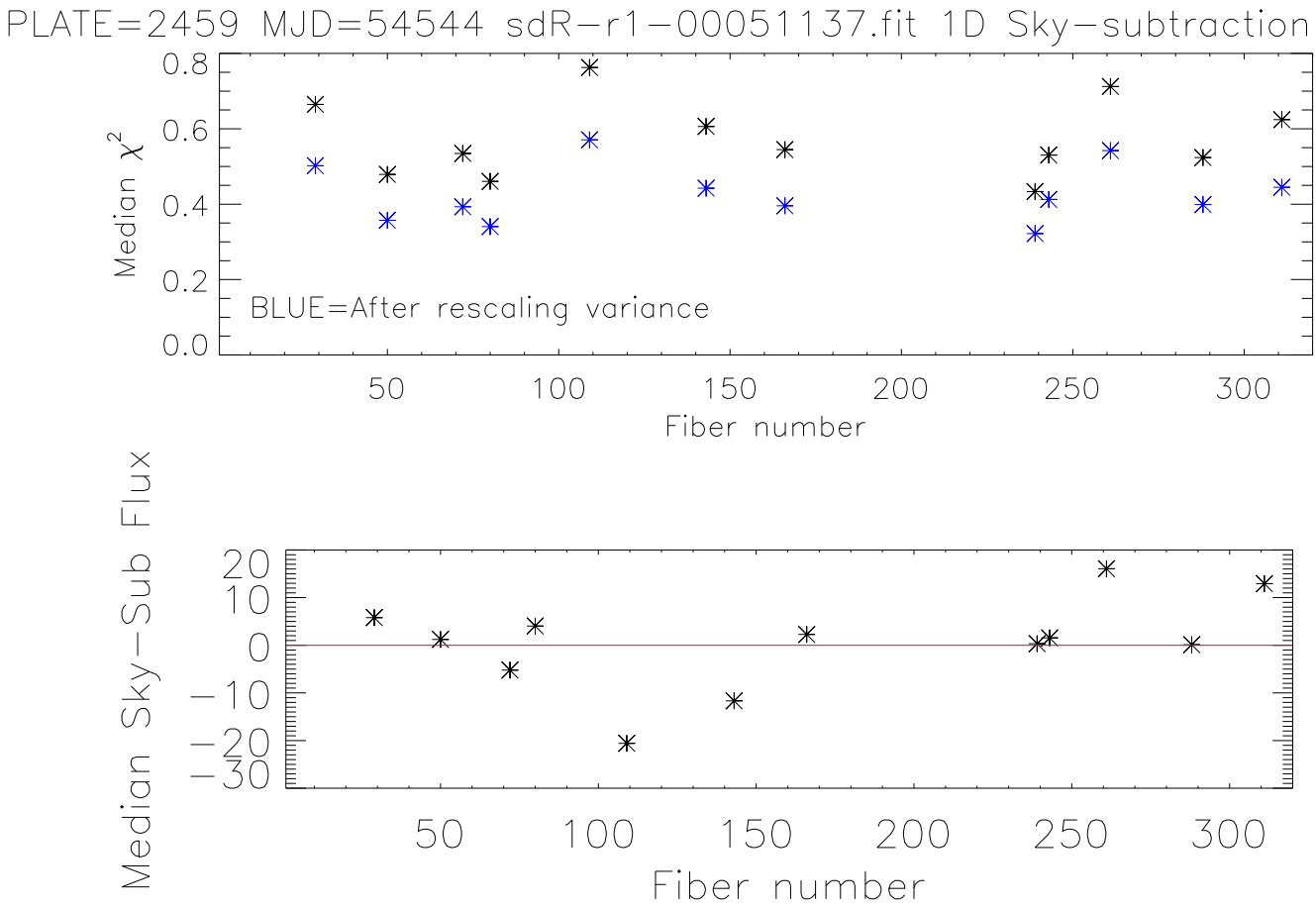

8885.8300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

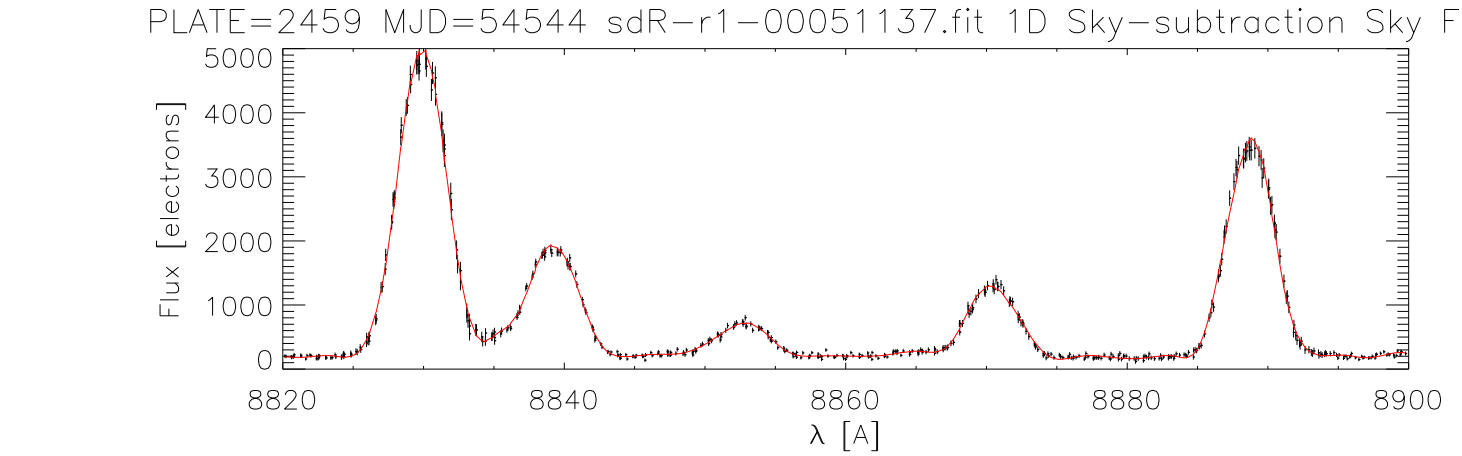

8919.6100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

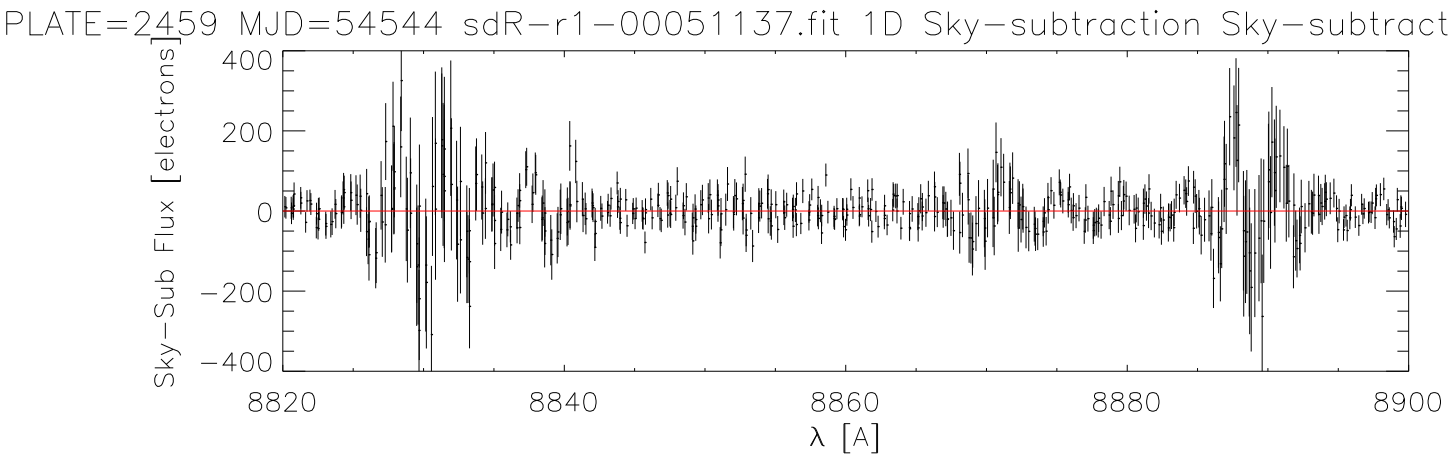

6300.3040
stdev 0.023
extra 0.28
6363.7760
stdev 0.027
extra 0.32
6553.6100
stdev 0.037
extra 0.17
6923.2100
stdev 0.035
extra 0.30
6949.0300
stdev 0.027
extra 0.34
7571.7500
stdev 0.025
extra 0.36
7794.1200
stdev 0.023
extra 0.27
7821.5100
stdev 0.027
extra 0.30
8399.1600
stdev 0.025
extra 0.33
8430.1700
stdev 0.019
extra 0.31
8885.8300
stdev 0.025
extra 0.32
8919.6100
stdev 0.022
extra 0.31
meas − pred, pix

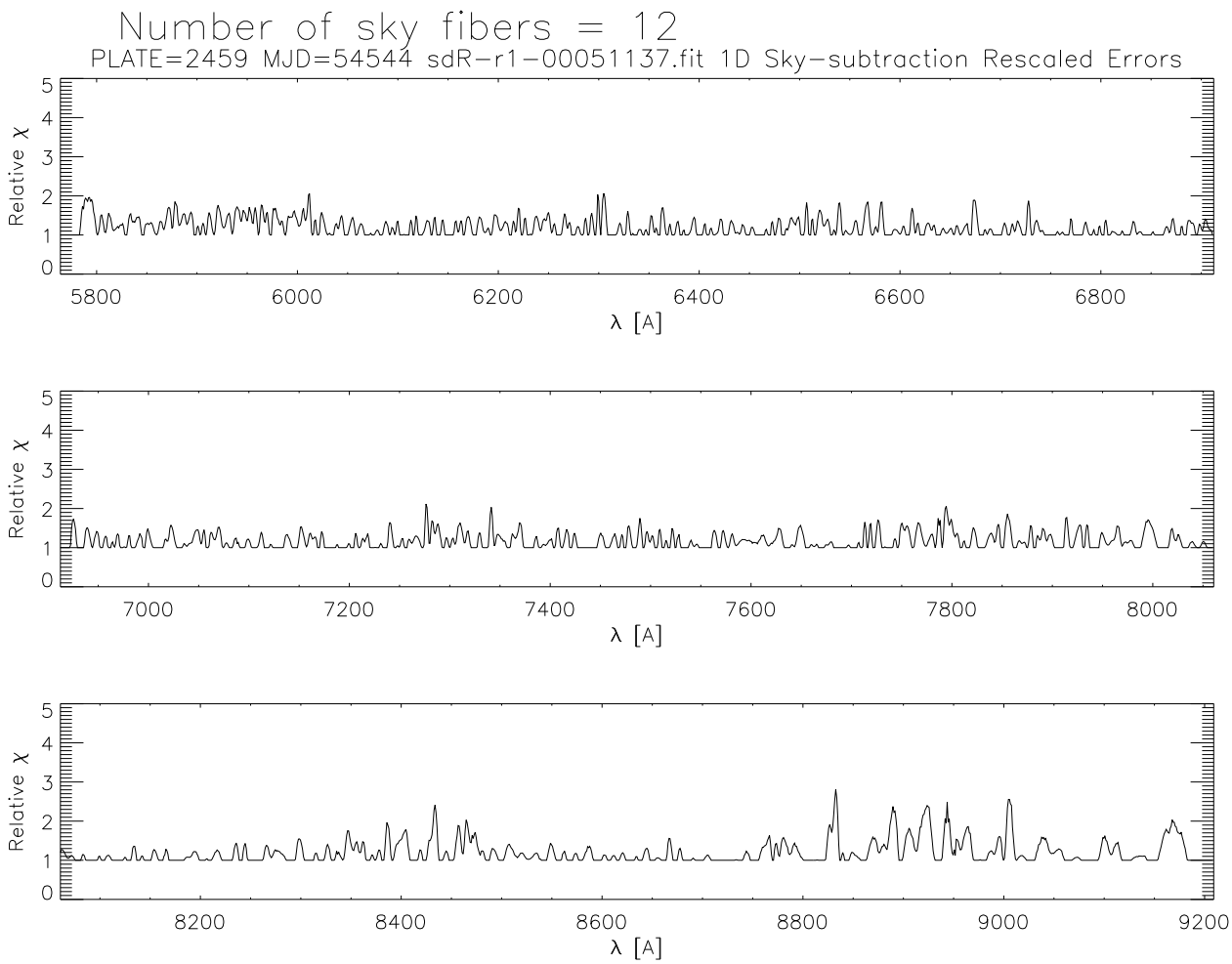

sky shift, pixels
0.35
0.30
0.25
0.20
0.15
5000
6000
7000
8000
9000
10000

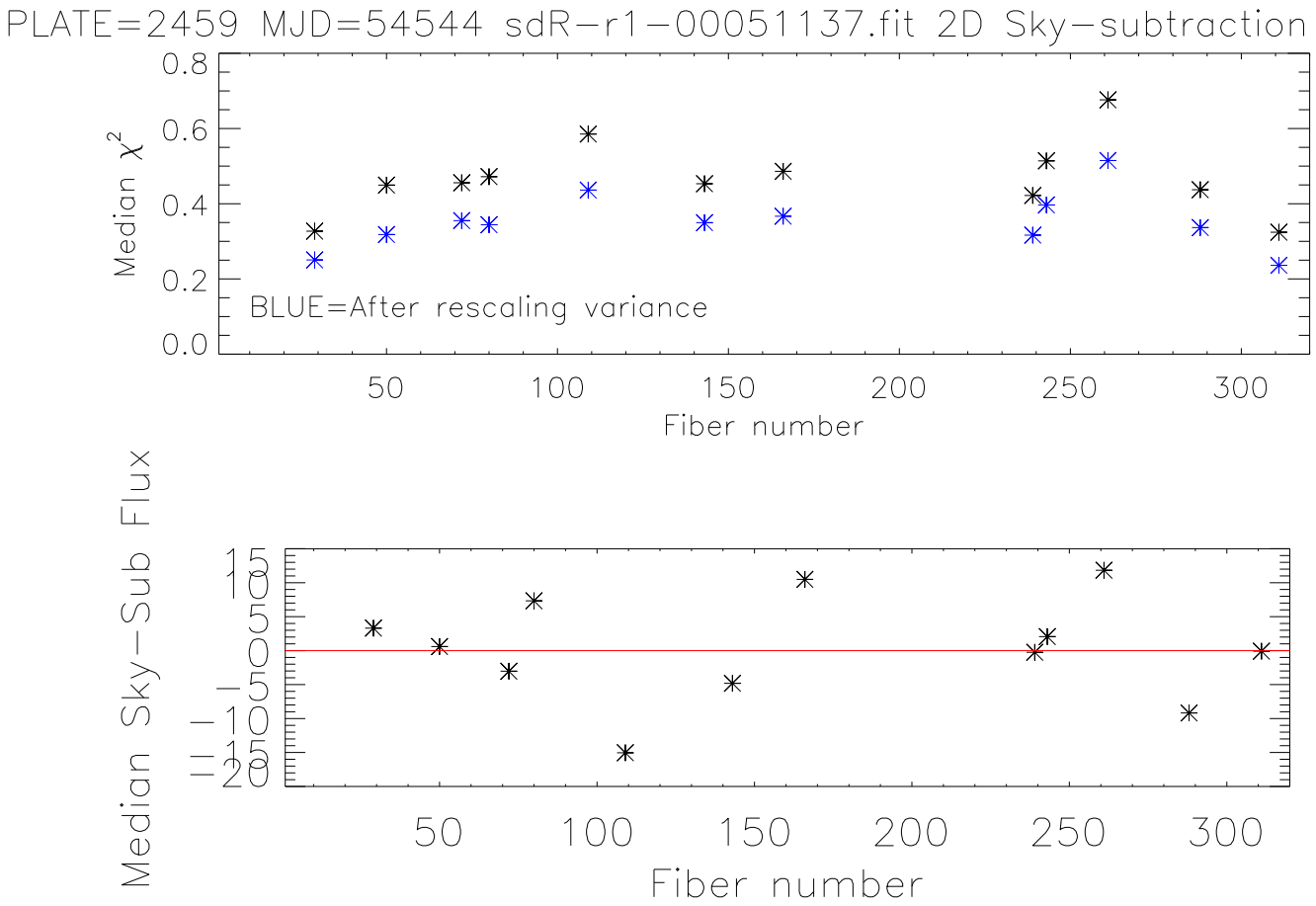

PLATE=2459 MJD=54544 Smooth superflat for sdR-r1-00051137.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

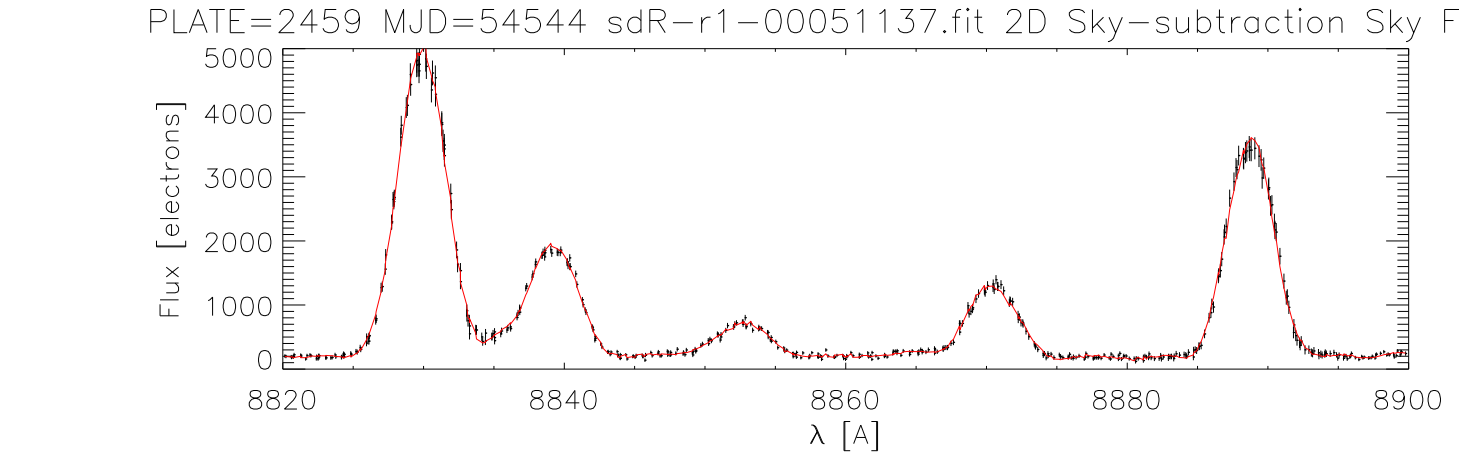

PLATE=2459 MJD=54544 sdR-r1-00051137.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
10
0
-10
-20
-30
50
100
150
200
250
300
Fiber number

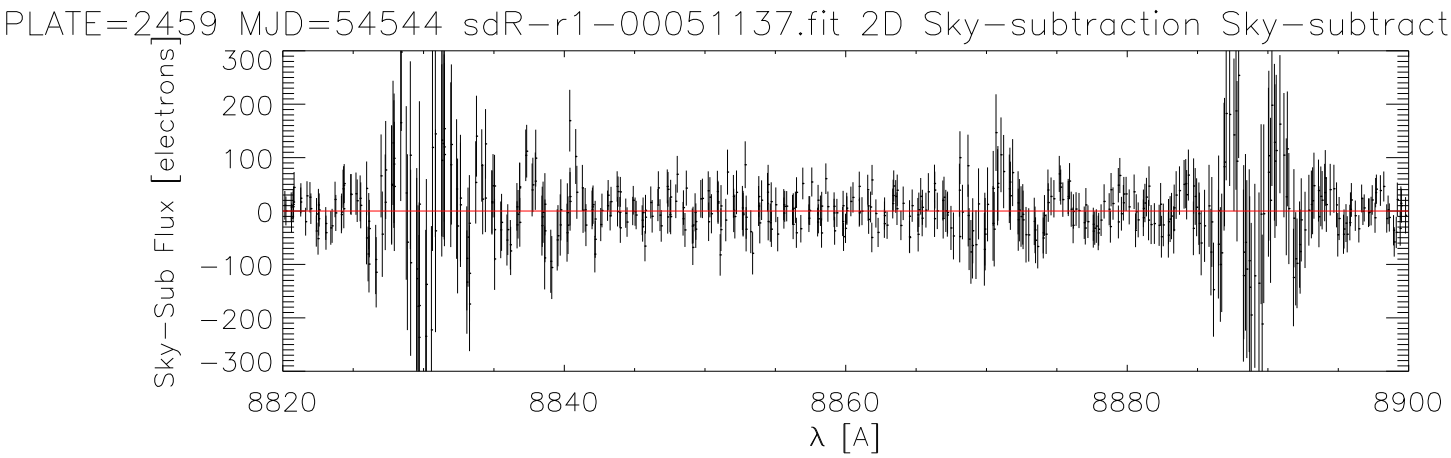

PLATE=2459 MJD=54544 sdR-r1-00051137.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

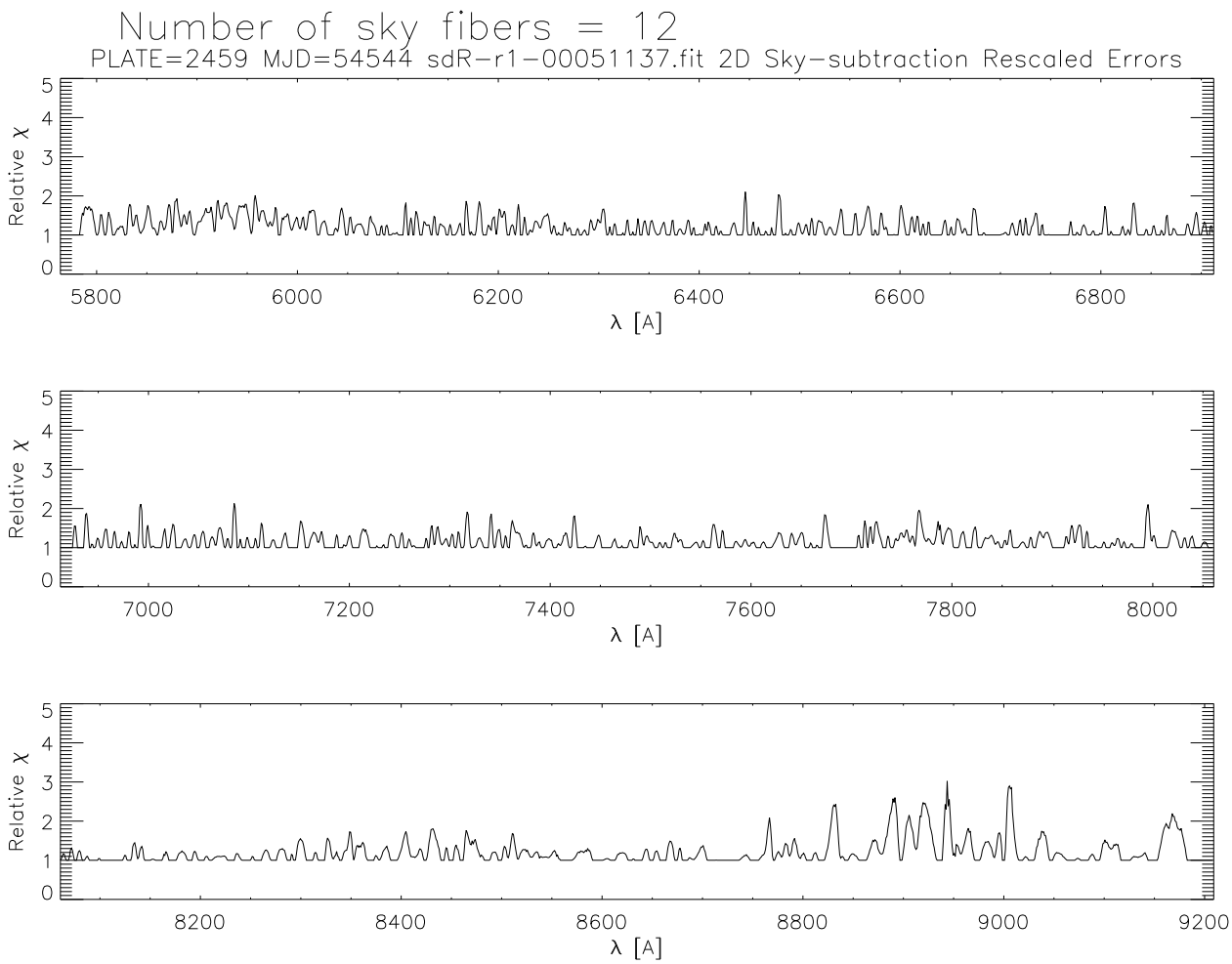

PLATE=2459 MJD=54544 sdR-r1-00051137.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

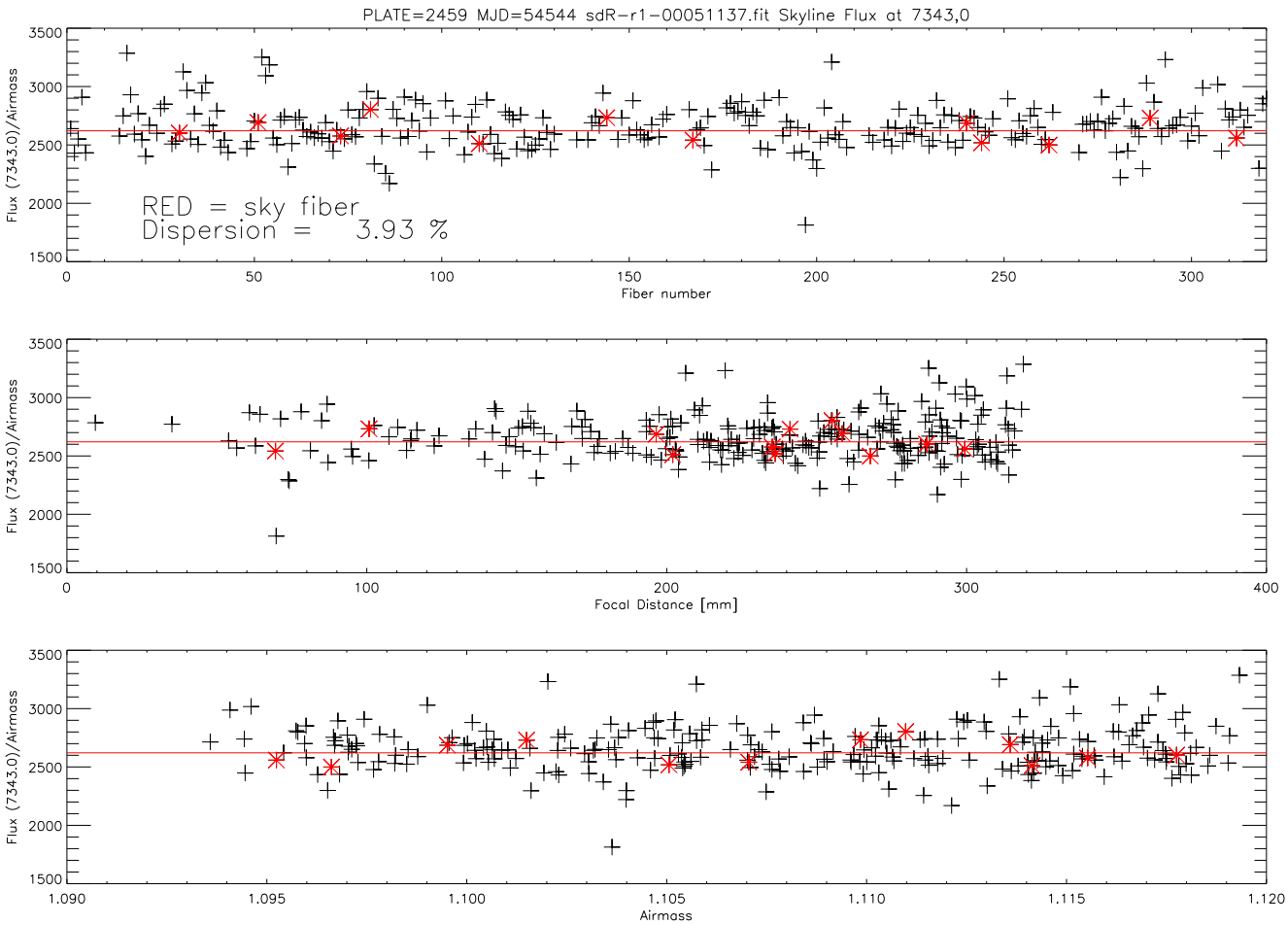

Number of sky fibers = 12
PLATE=2459 MJD=54544 sdR-r1-00051137.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

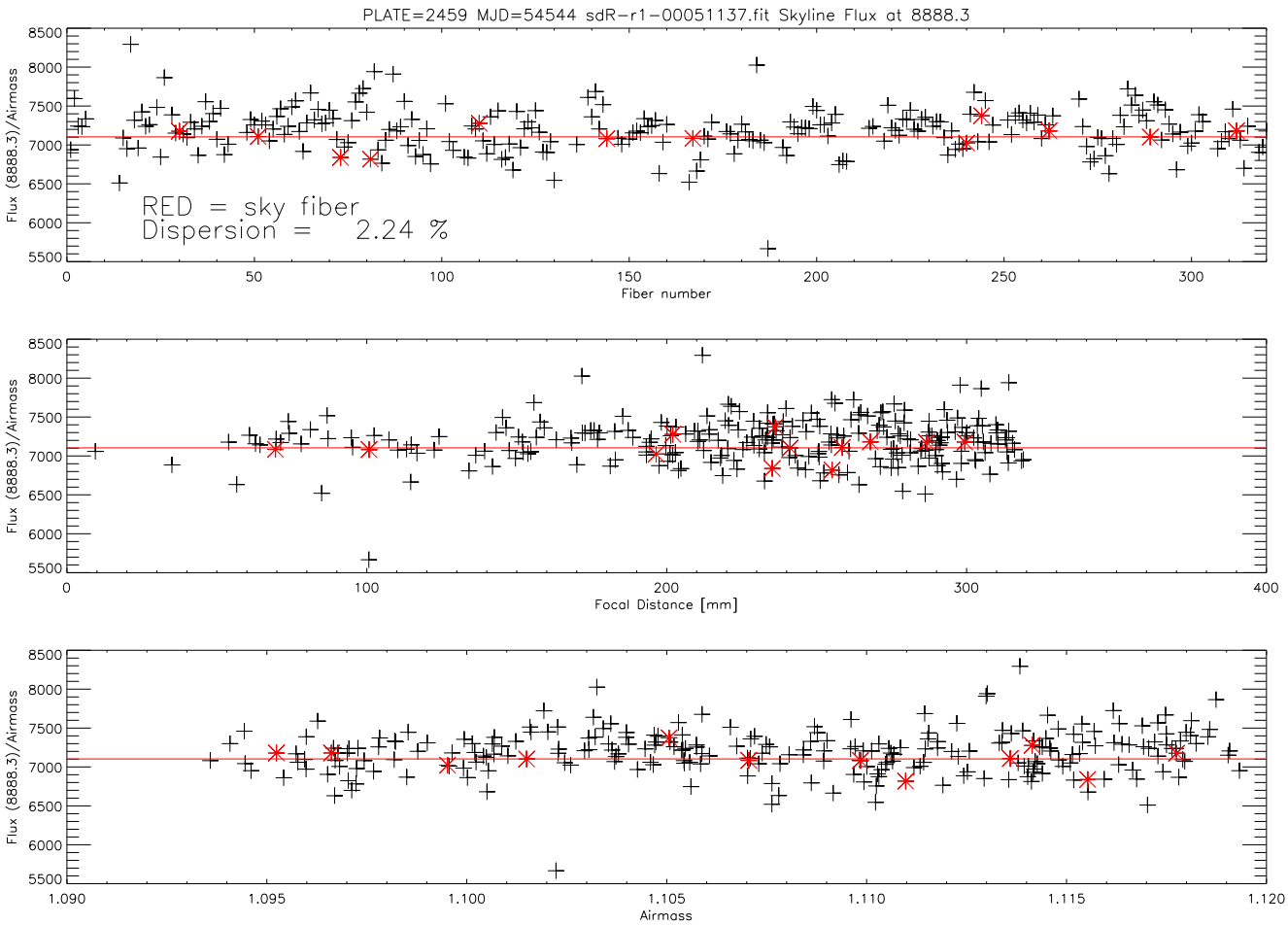

PLATE=2459 MJD=54544 sdR-r1-00051137.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
Fiber number

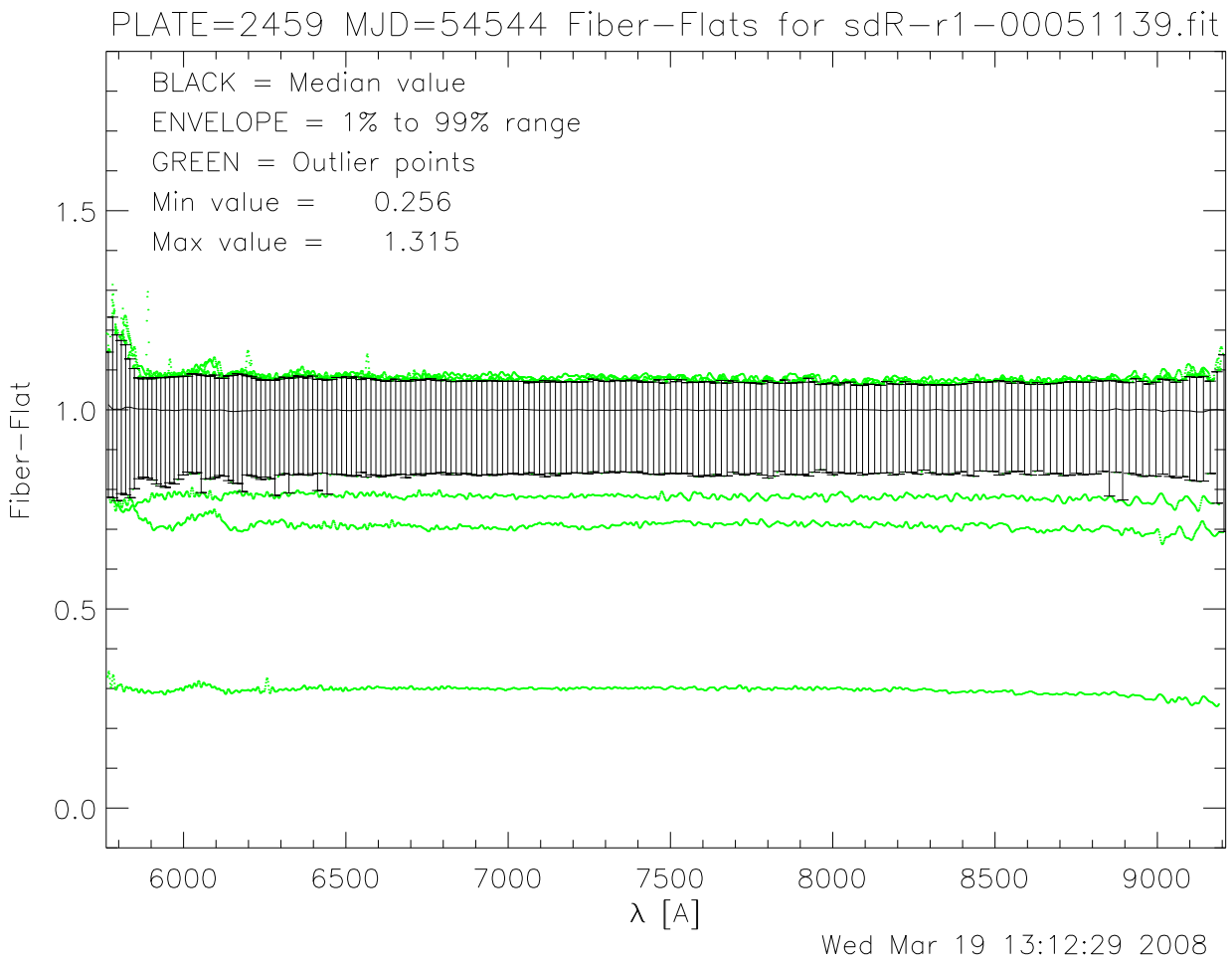

PLATE=2459 MJD=54544 sdR-r1-00051137.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

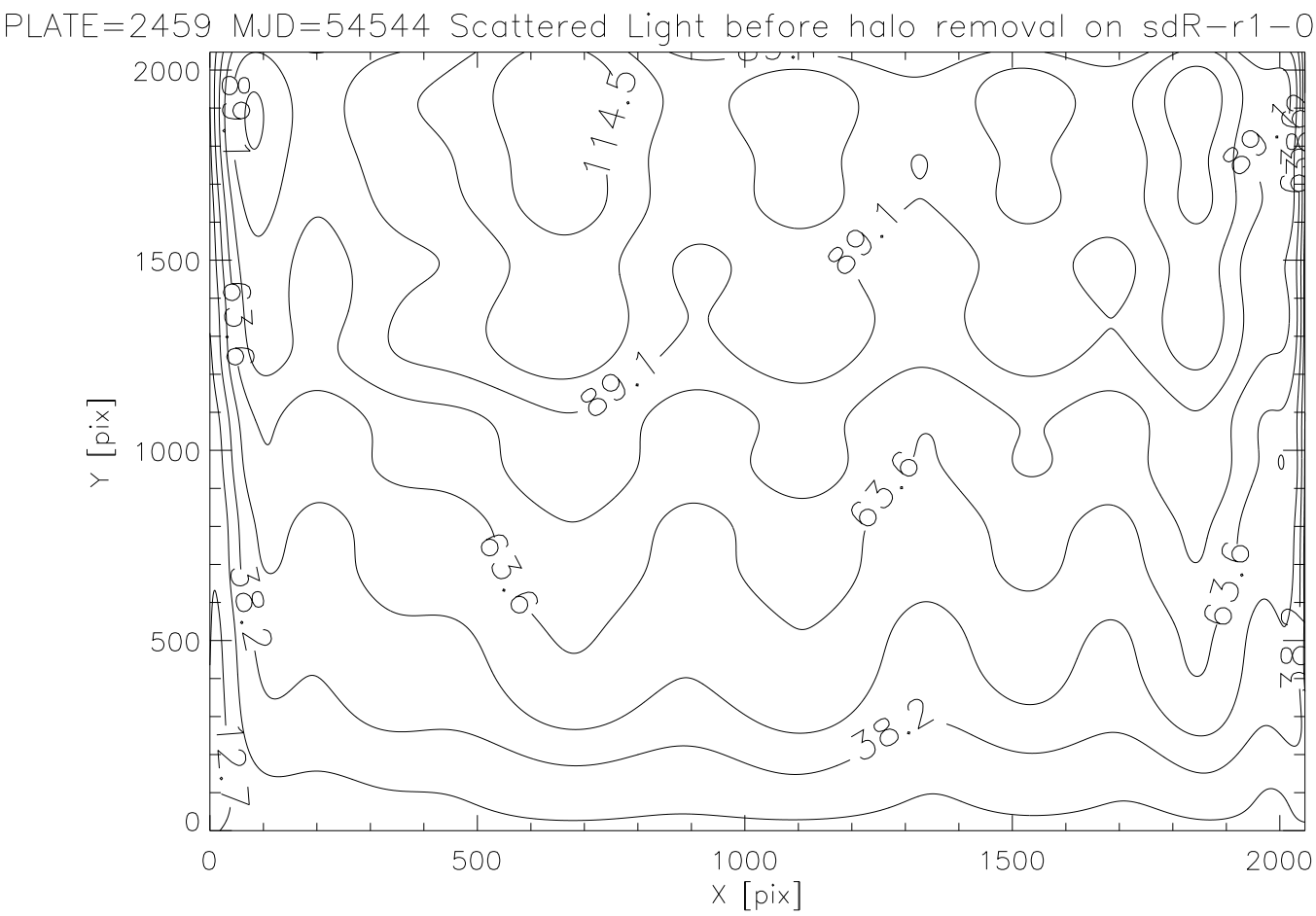

PLATE=2459 MJD=54544 sdR-r1-00051137.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

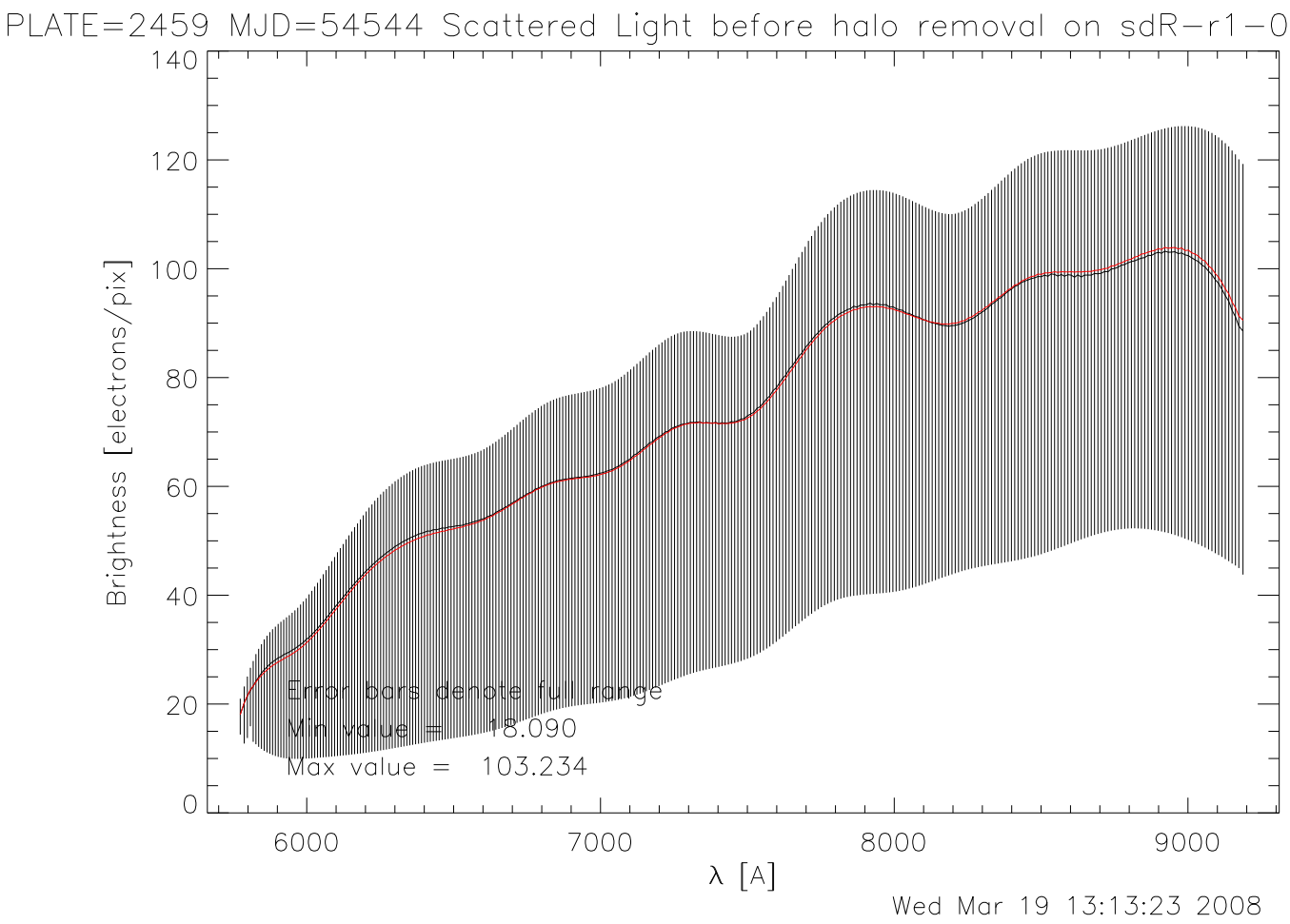

Number of sky fibers = 12
PLATE=2459 MJD=54544 sdR-r1-00051137.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

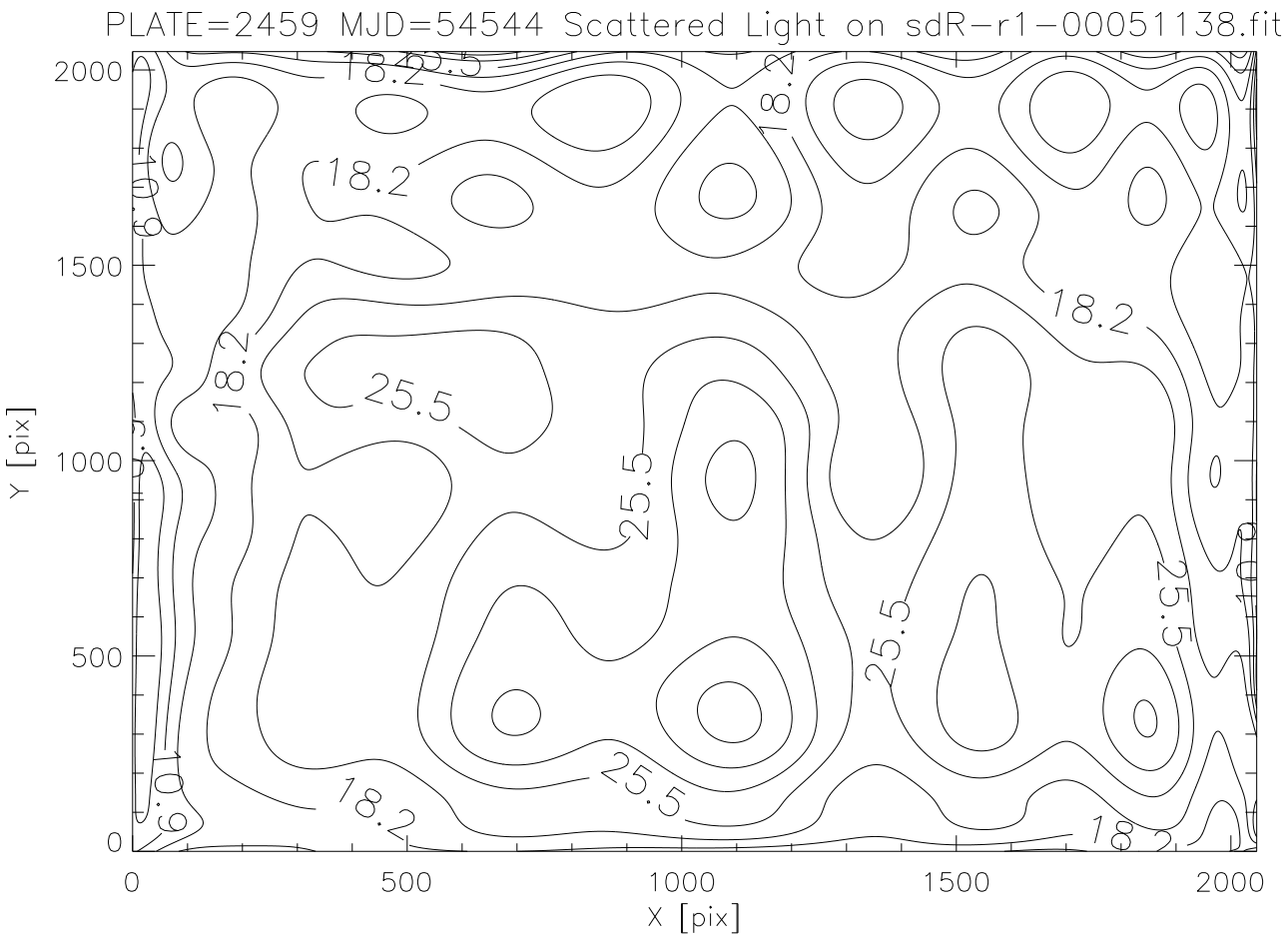

PLATE=2459 MJD=54544 sdR-r1-00051137.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.93 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

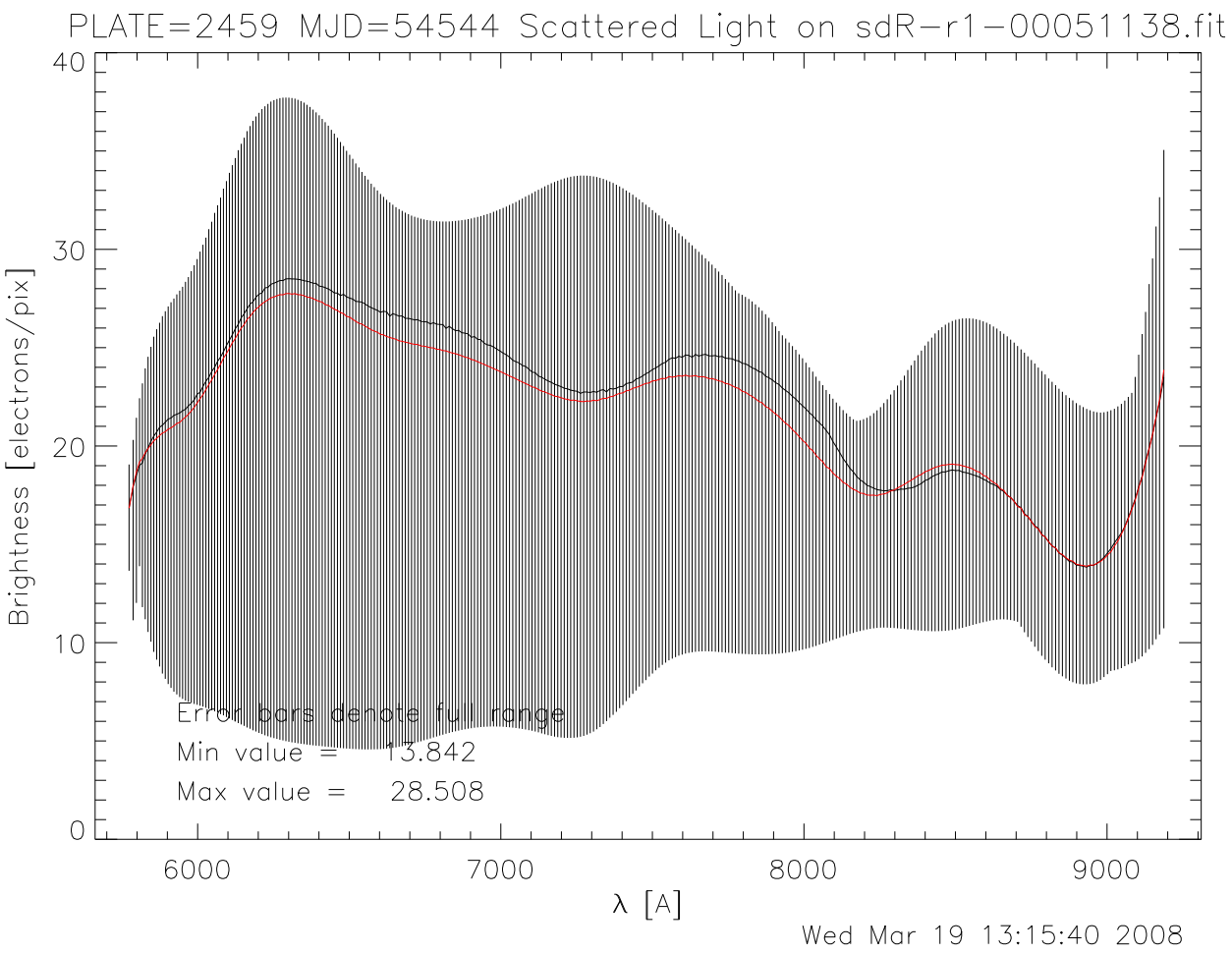

PLATE=2459 MJD=54544 sdR-r1-00051137.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.24 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

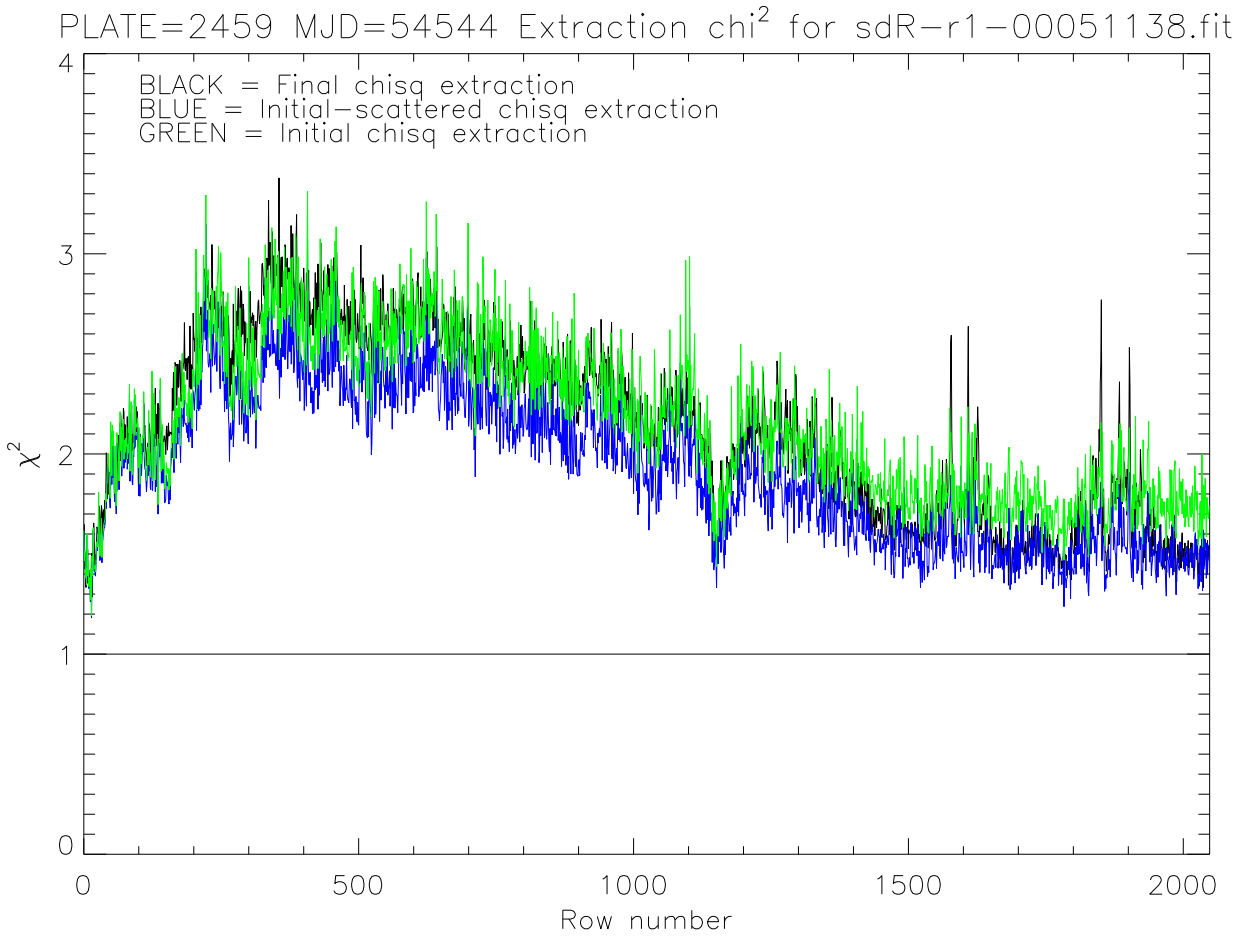

PLATE=2459 MJD=54544 Fiber−Flats for sdR−r1−00051139.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.256
Max value = 1.315
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 19 13:12:29 2008

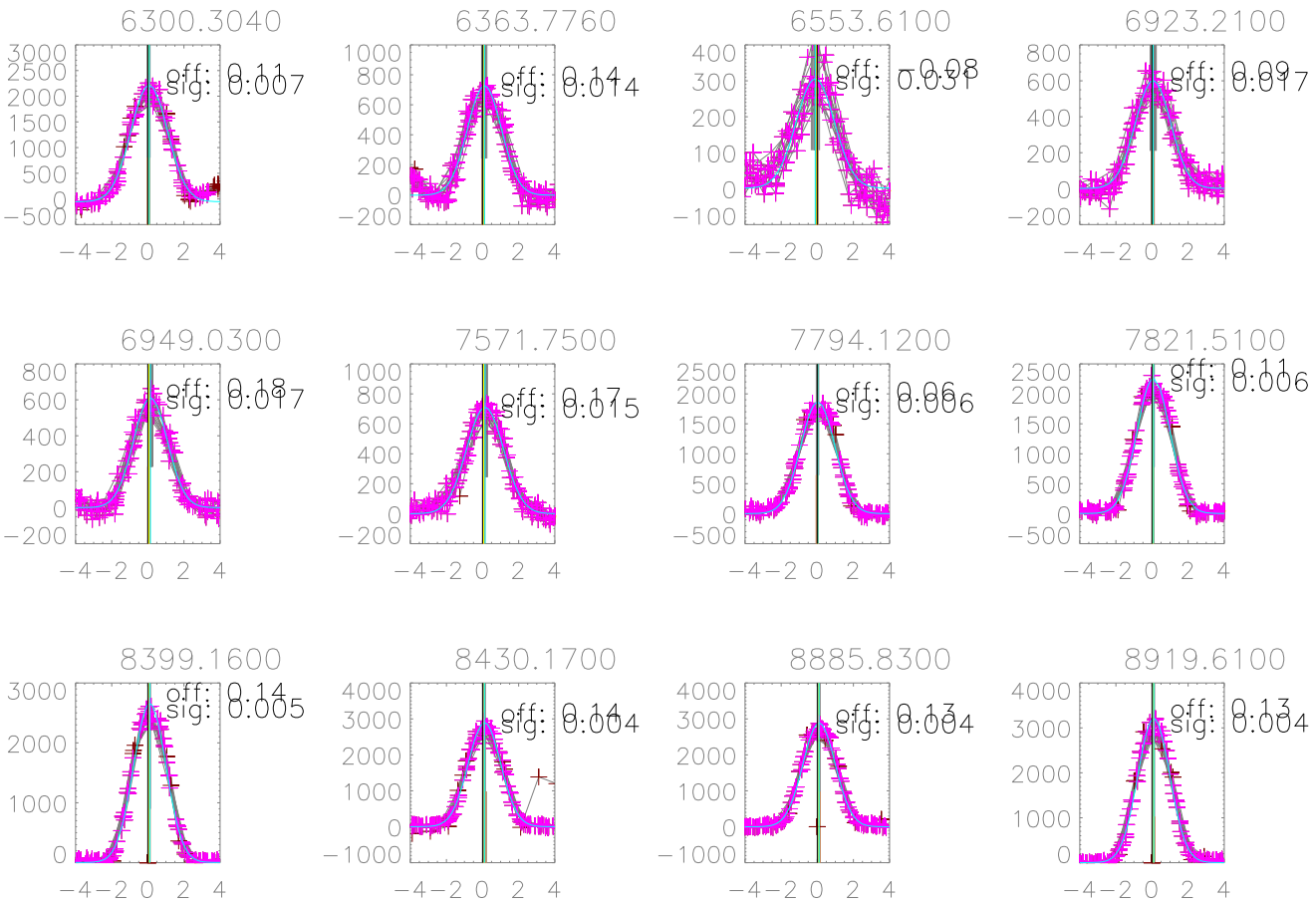

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-r1-00051138.fi
Y [pix]
X [pix]
0
500
1000
1500
2000
89.1
114.5
63.6
38.2
12.7

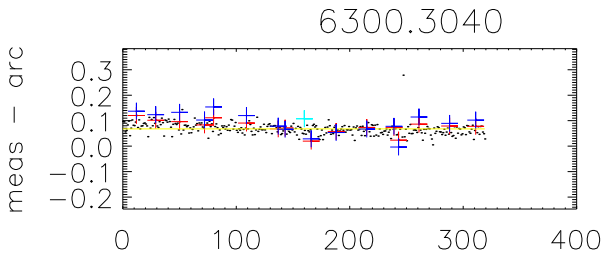

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-r1-00051138.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 18.090
Max value = 103.234
Wed Mar 19 13:13:23 2008

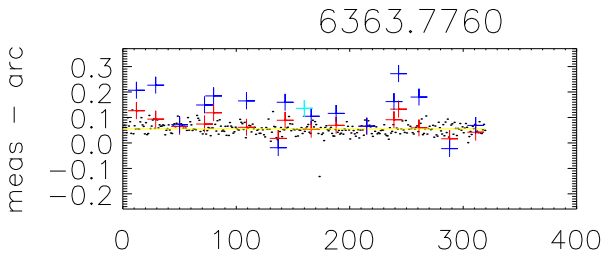

PLATE=2459 MJD=54544 Scattered Light on sdR-r1-00051138.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
18.2
25.5

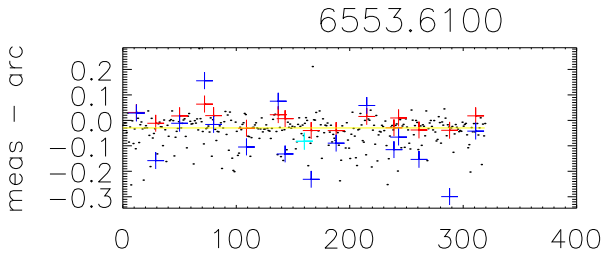

PLATE=2459 MJD=54544 Scattered Light on sdR-r1-00051138.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 13.842
Max value = 28.508
Wed Mar 19 13:15:40 2008

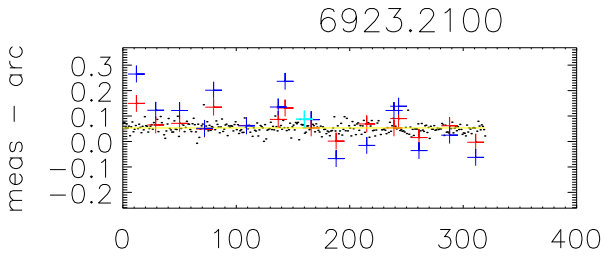

PLATE=2459 MJD=54544 Extraction chi^2 for sdR−r1−00051138.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

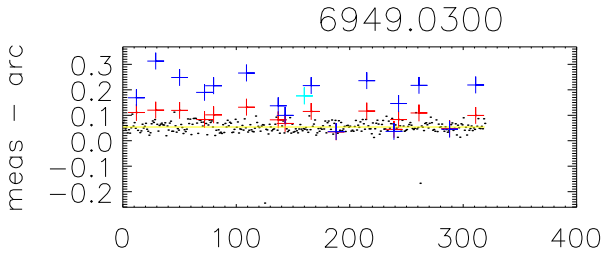

6300.3040
off: 0.11
sig: 0.007
6363.7760
off: 0.14
sig: 0.014
6553.6100
off: 0.08
sig: 0.031
6923.2100
off: 0.09
sig: 0.017
6949.0300
off: 0.18
sig: 0.017
7571.7500
off: 0.17
sig: 0.015
7794.1200
off: 0.06
sig: 0.006
7821.5100
off: 0.11
sig: 0.006
8399.1600
off: 0.14
sig: 0.005
8430.1700
off: 0.14
sig: 0.004
8885.8300
off: 0.13
sig: 0.004
8919.6100
off: 0.13
sig: 0.004

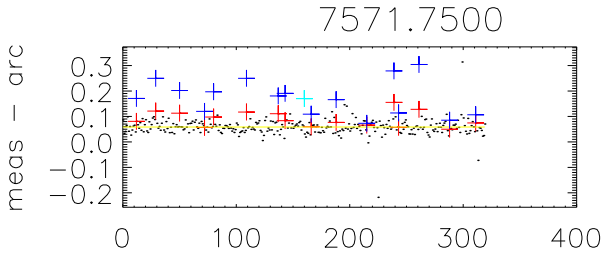

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

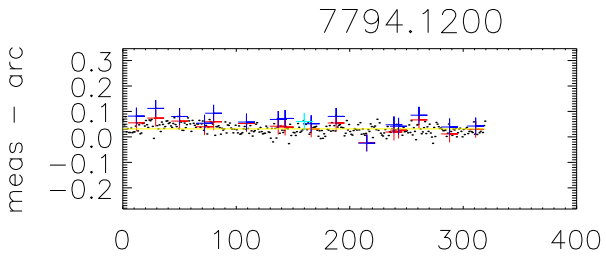

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

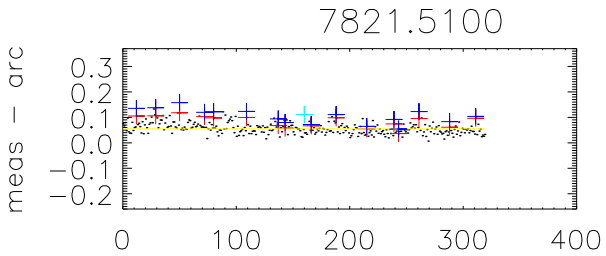

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

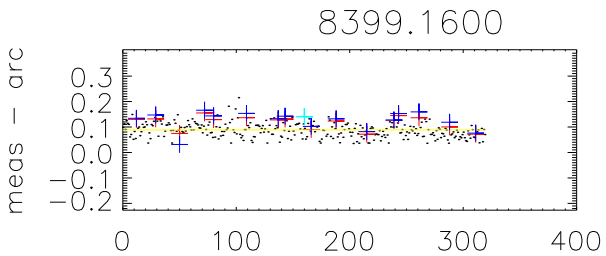

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

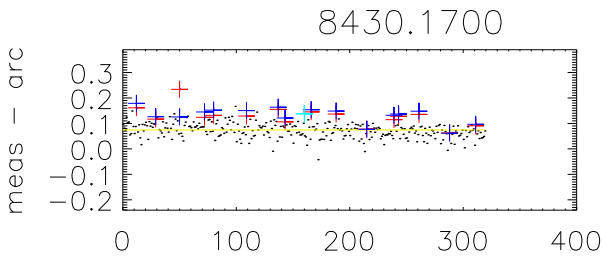

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

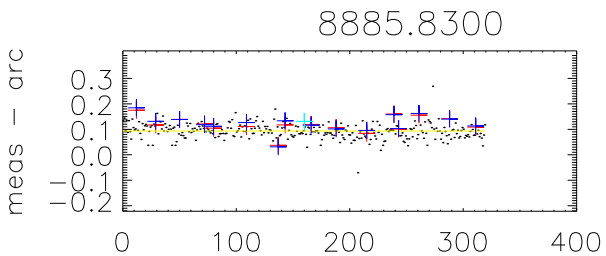

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

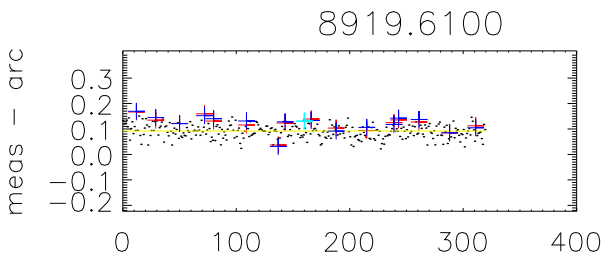

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

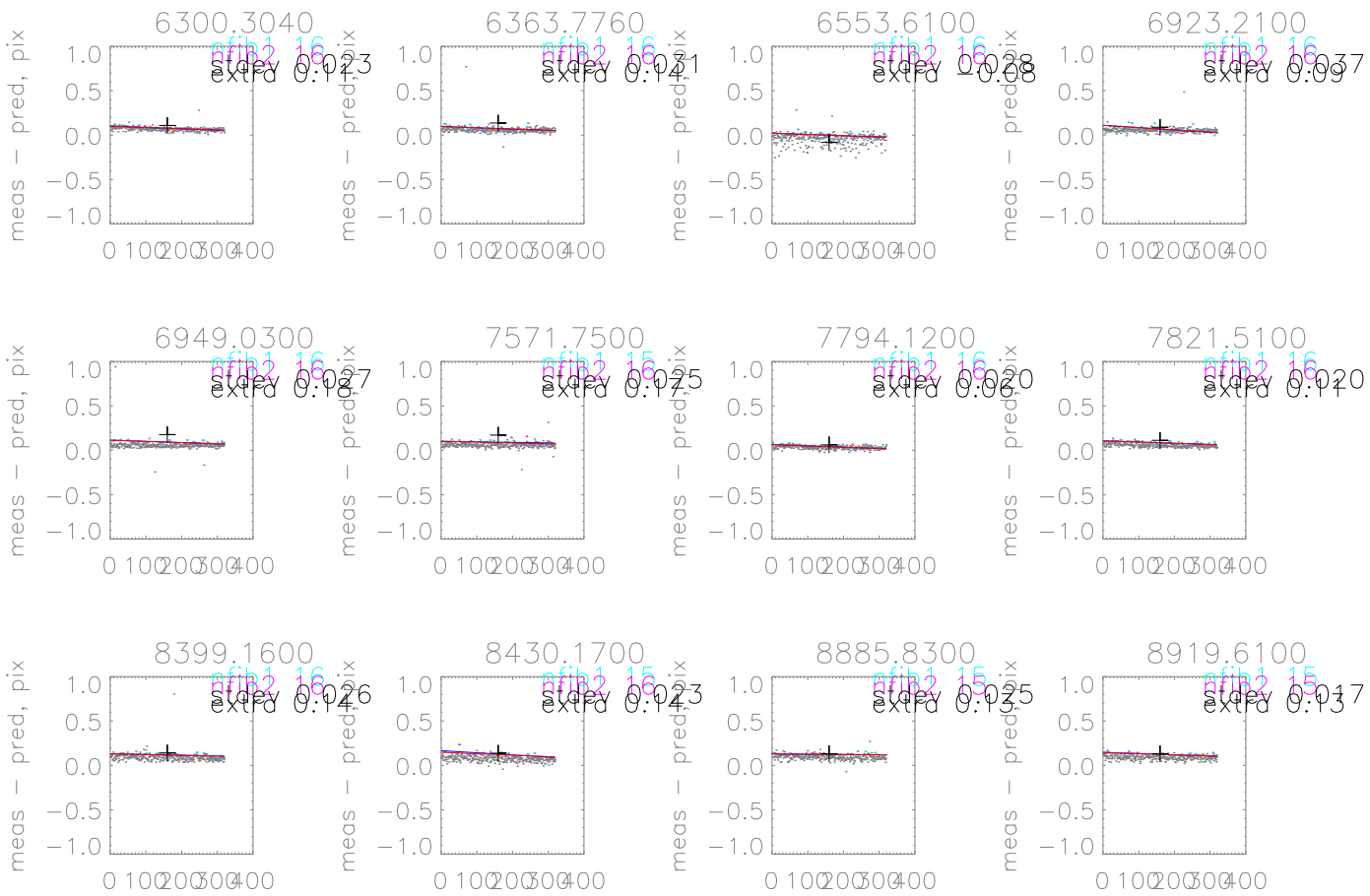

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

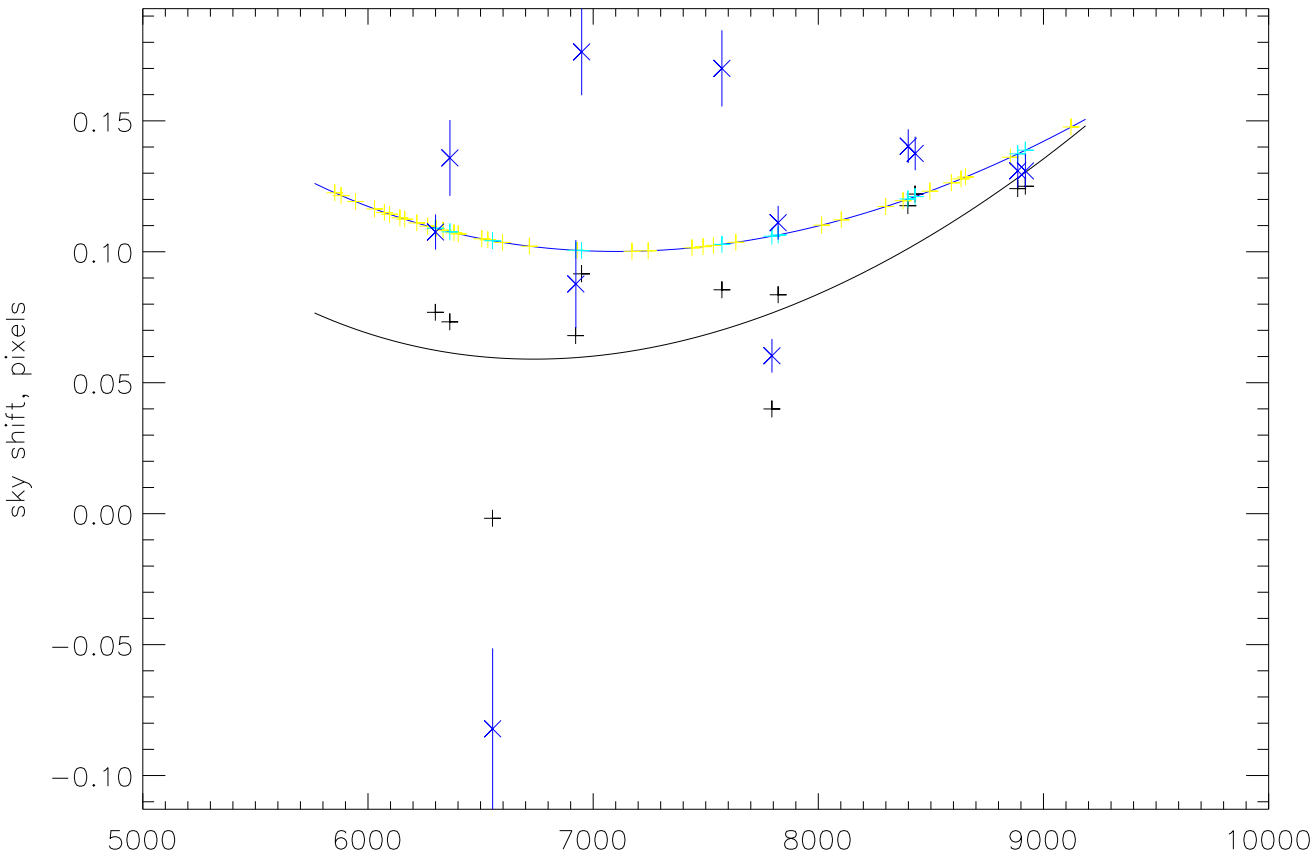

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

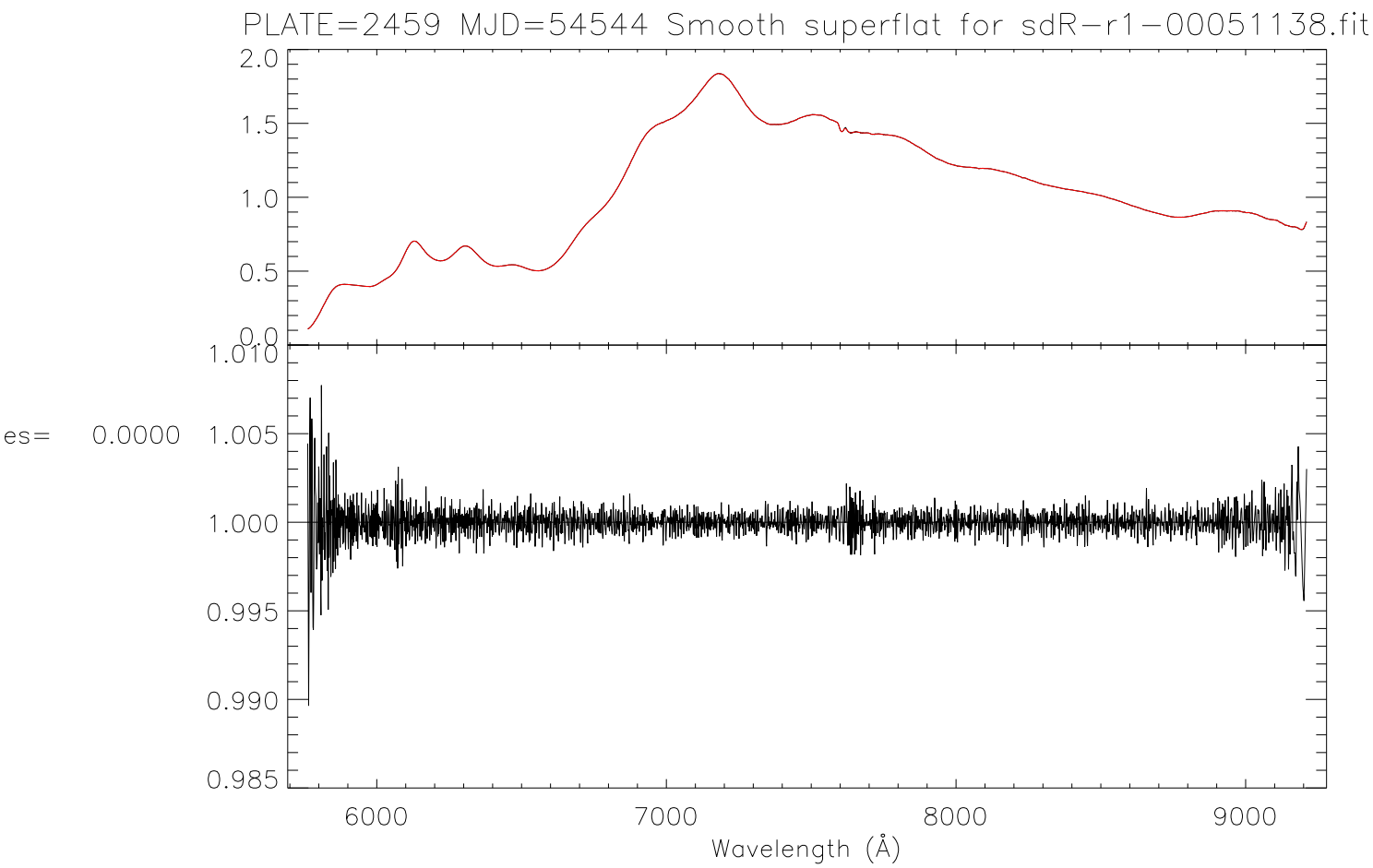

8430.1700
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

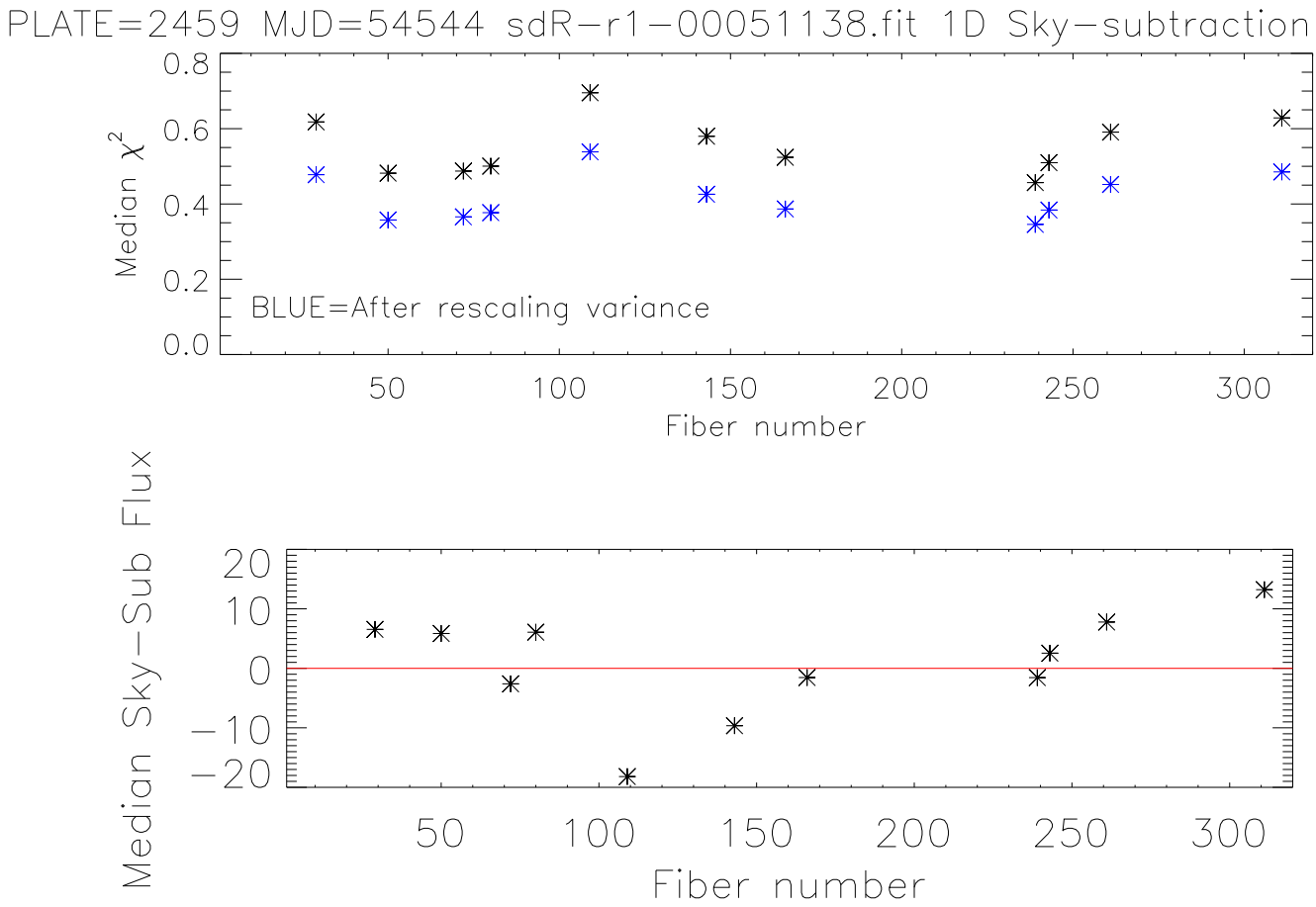

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

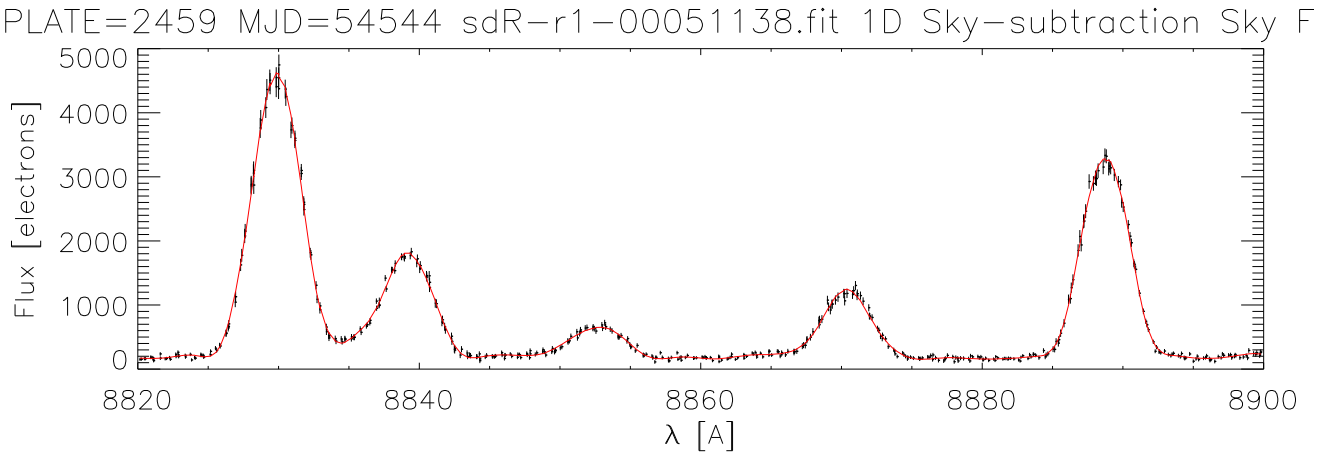

6300.3040
stdev 0.023
extra 0.14
6363.7760
stdev 0.021
extra 0.14
6553.6100
stdev 0.028
extra −0.08
6923.2100
stdev 0.037
extra 0.09
6949.0300
stdev 0.027
extra 0.18
7571.7500
stdev 0.025
extra 0.17
7794.1200
stdev 0.020
extra 0.06
7821.5100
stdev 0.020
extra 0.11
8399.1600
stdev 0.026
extra 0.14
8430.1700
stdev 0.023
extra 0.14
8885.8300
stdev 0.025
extra 0.13
8919.6100
stdev 0.017
extra 0.13
meas − pred, pix
mfib1 16
mfib2 16
mfib1 15
mfib2 15

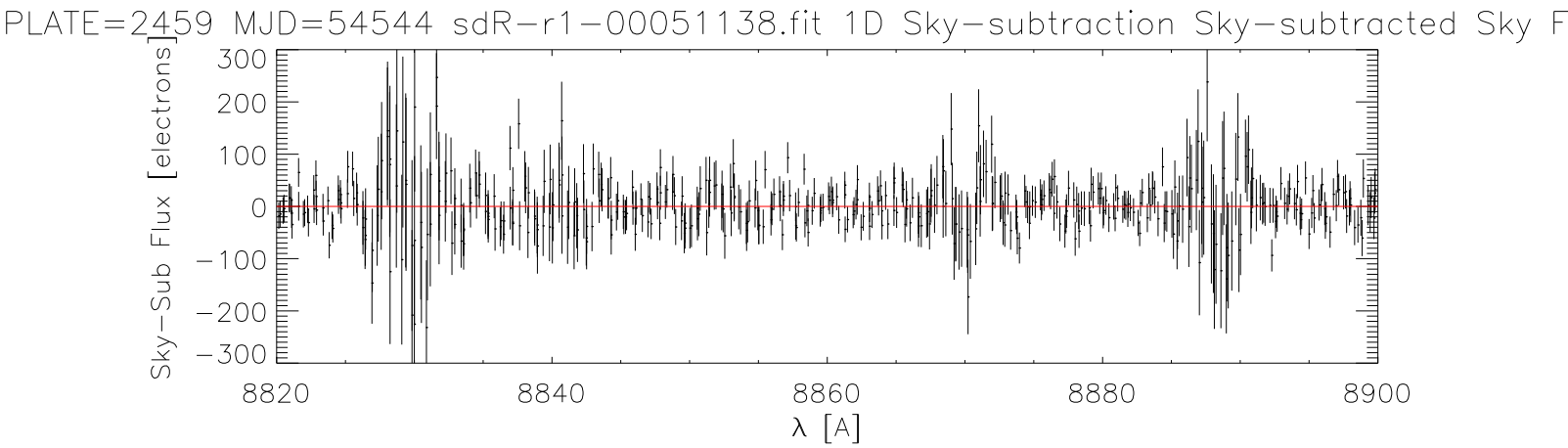

sky shift, pixels
0.15
0.10
0.05
0.00
−0.05
−0.10
5000
6000
7000
8000
9000
10000

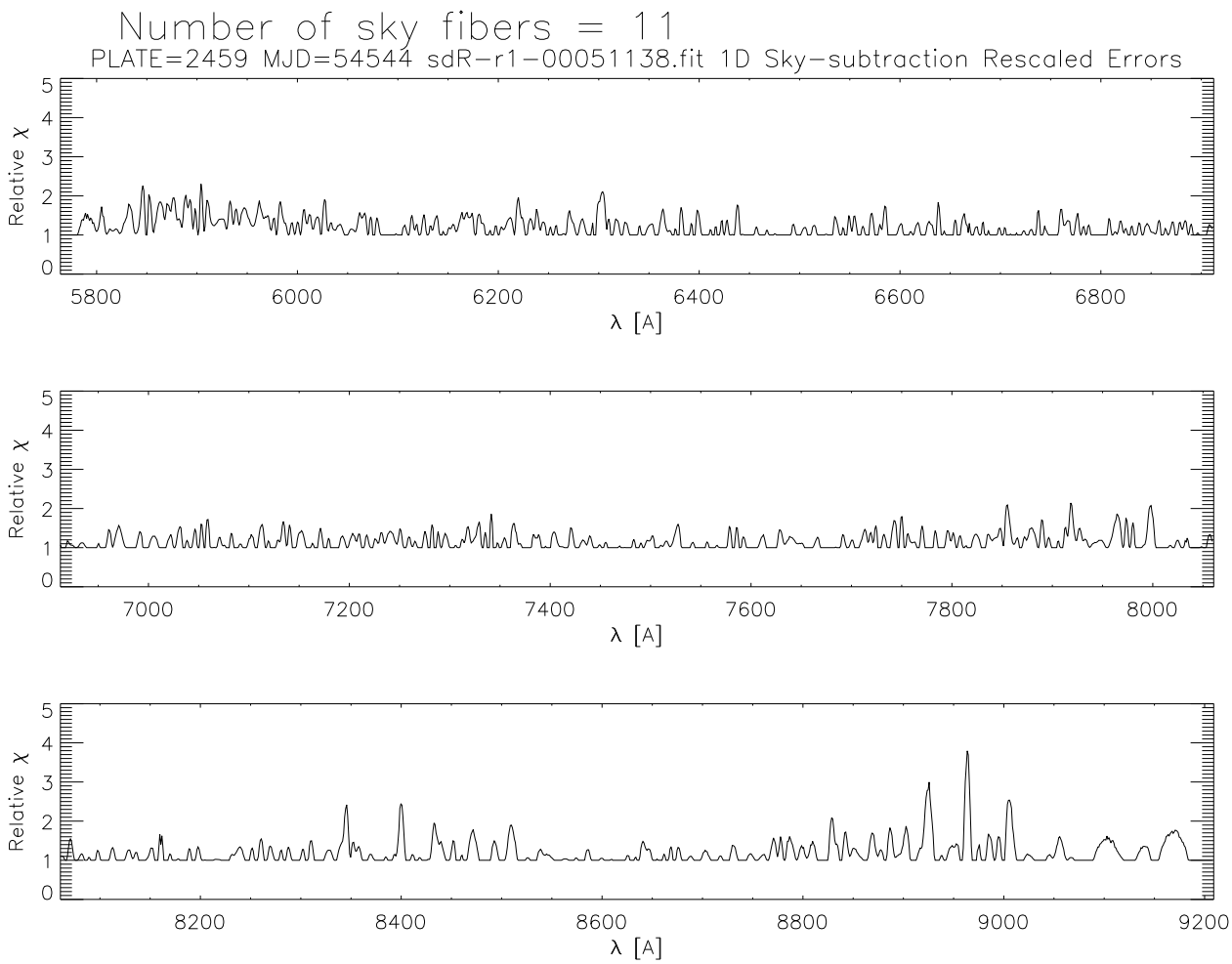

PLATE=2459 MJD=54544 Smooth superflat for sdR-r1-00051138.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
6000
7000
8000
9000
Wavelength (Å)

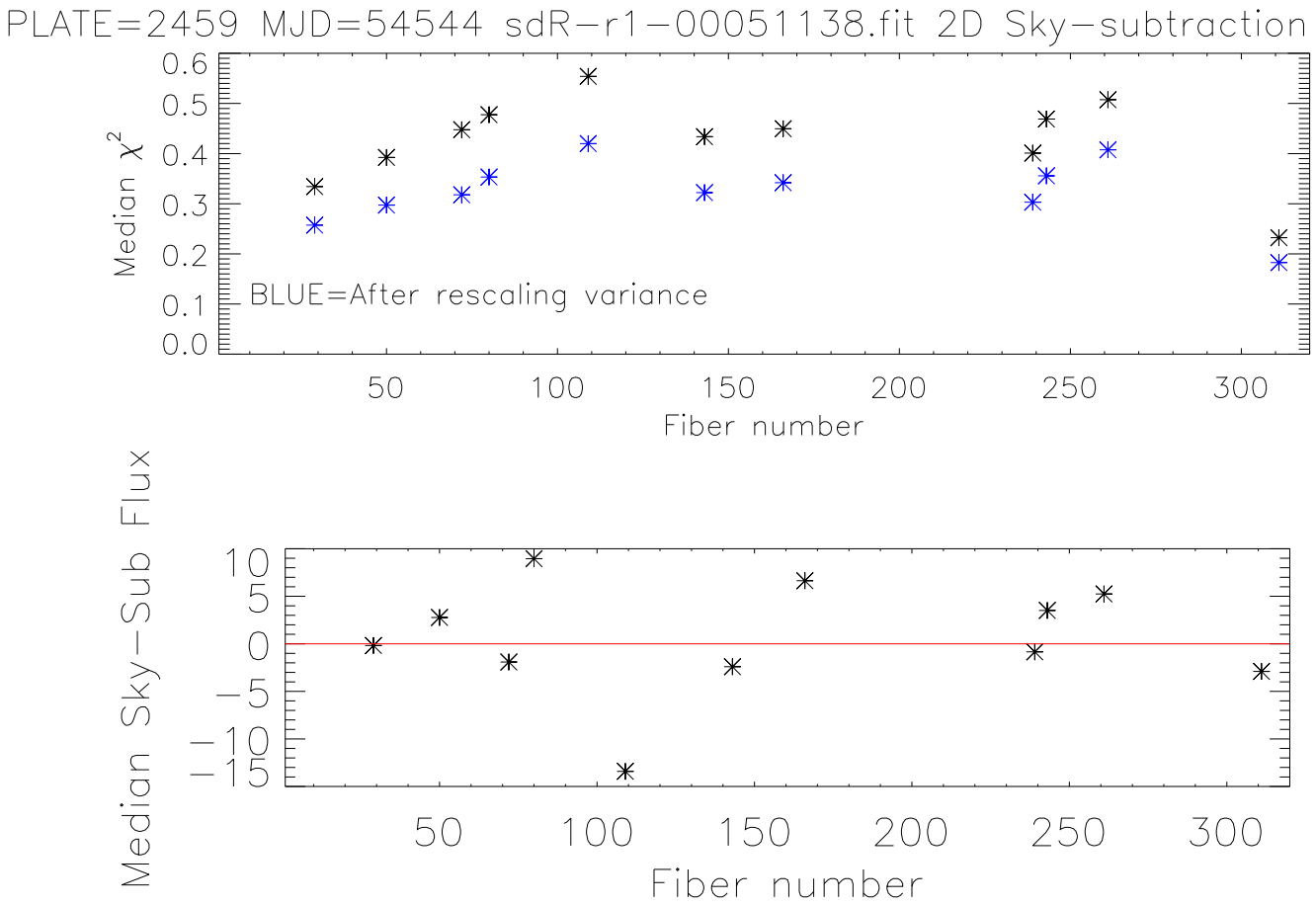
es= 0.0000

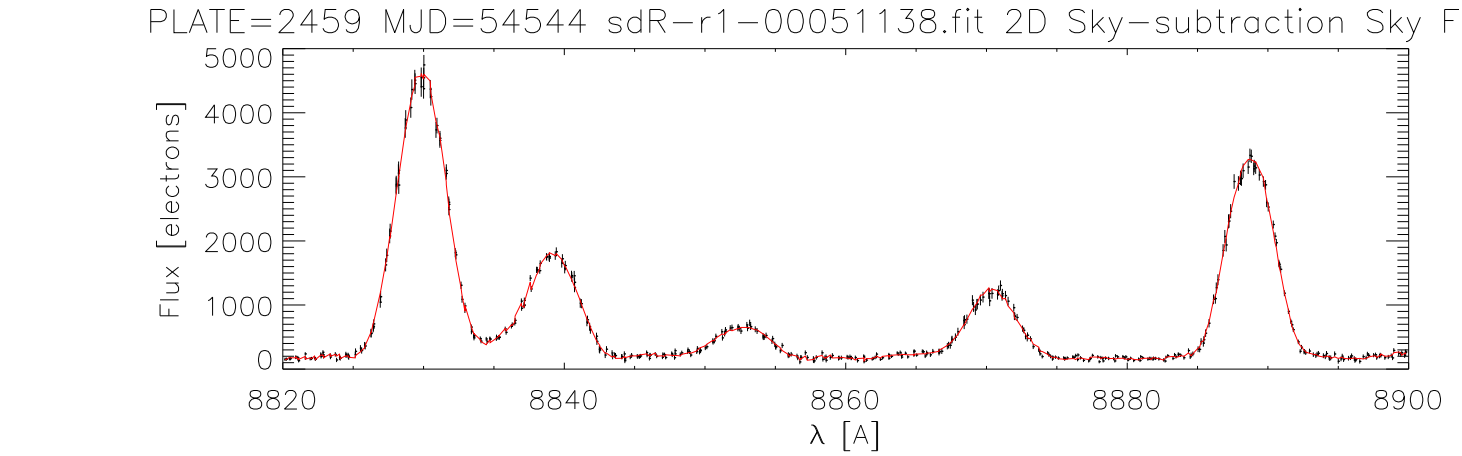

PLATE=2459 MJD=54544 sdR-r1-00051138.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
10
0
-10
-20
50
100
150
200
250
300
Fiber number

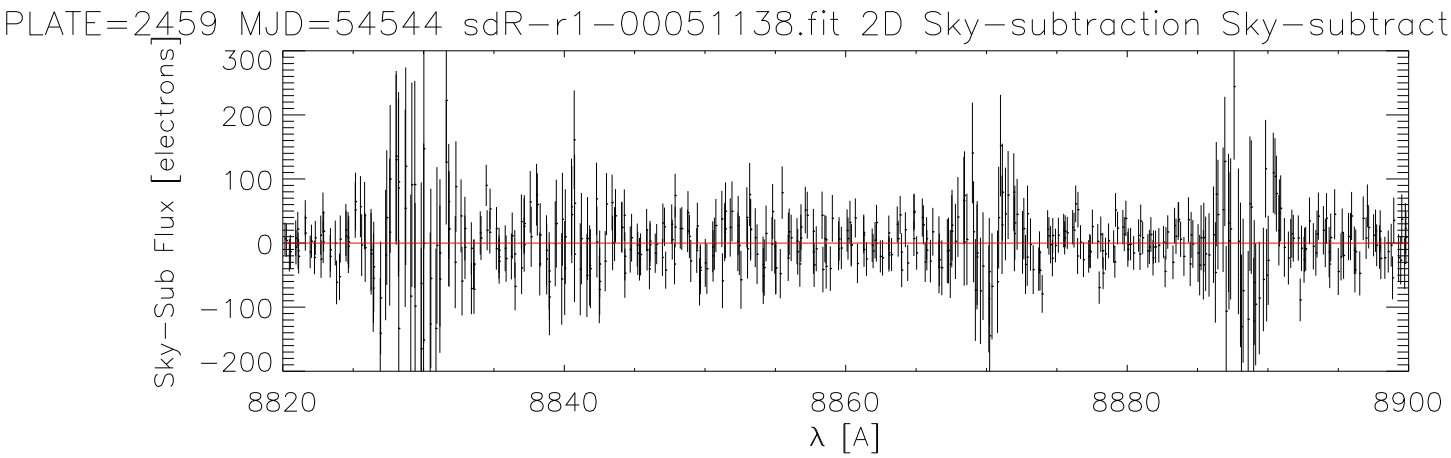

PLATE=2459 MJD=54544 sdR-r1-00051138.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

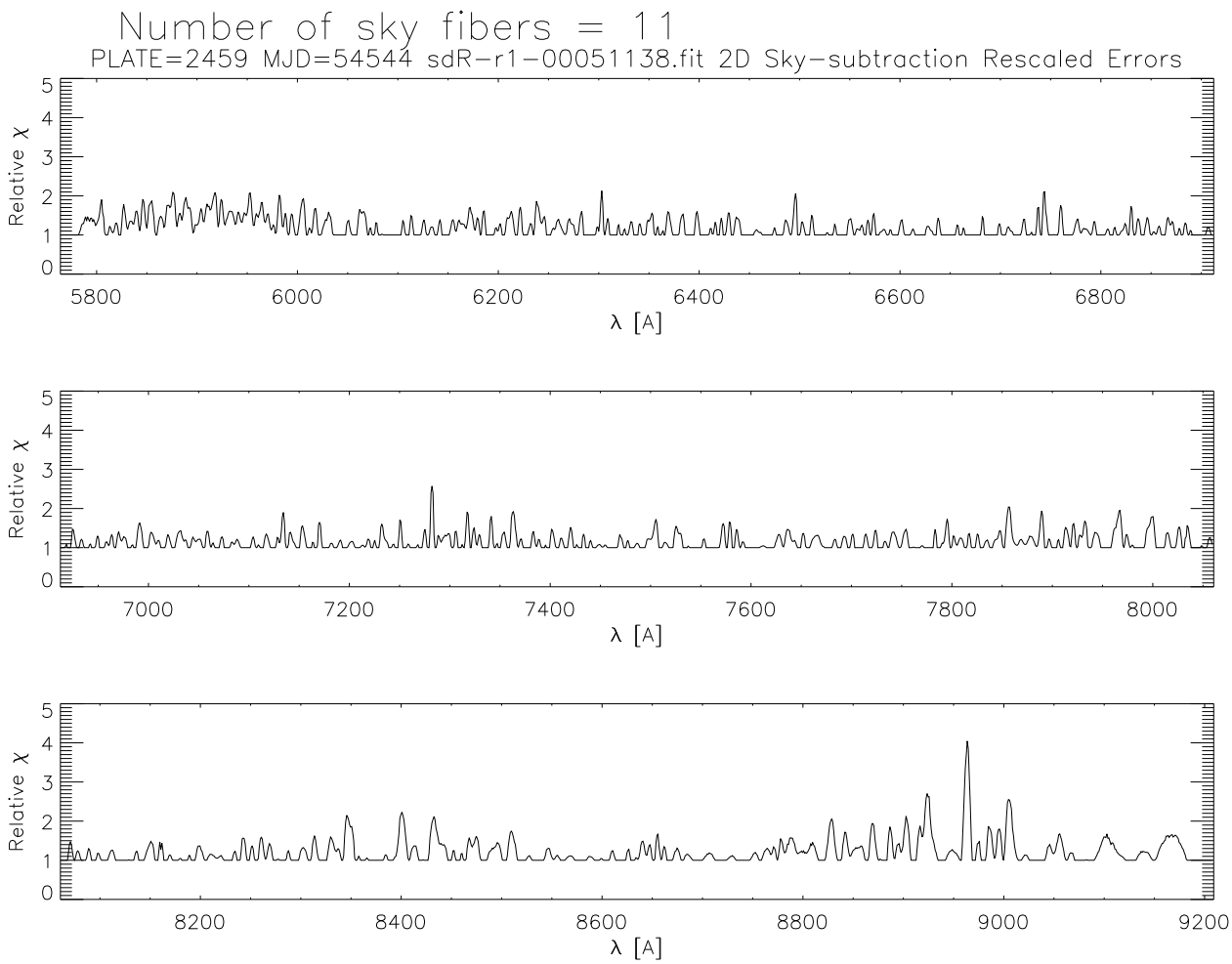

PLATE=2459 MJD=54544 sdR-r1-00051138.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

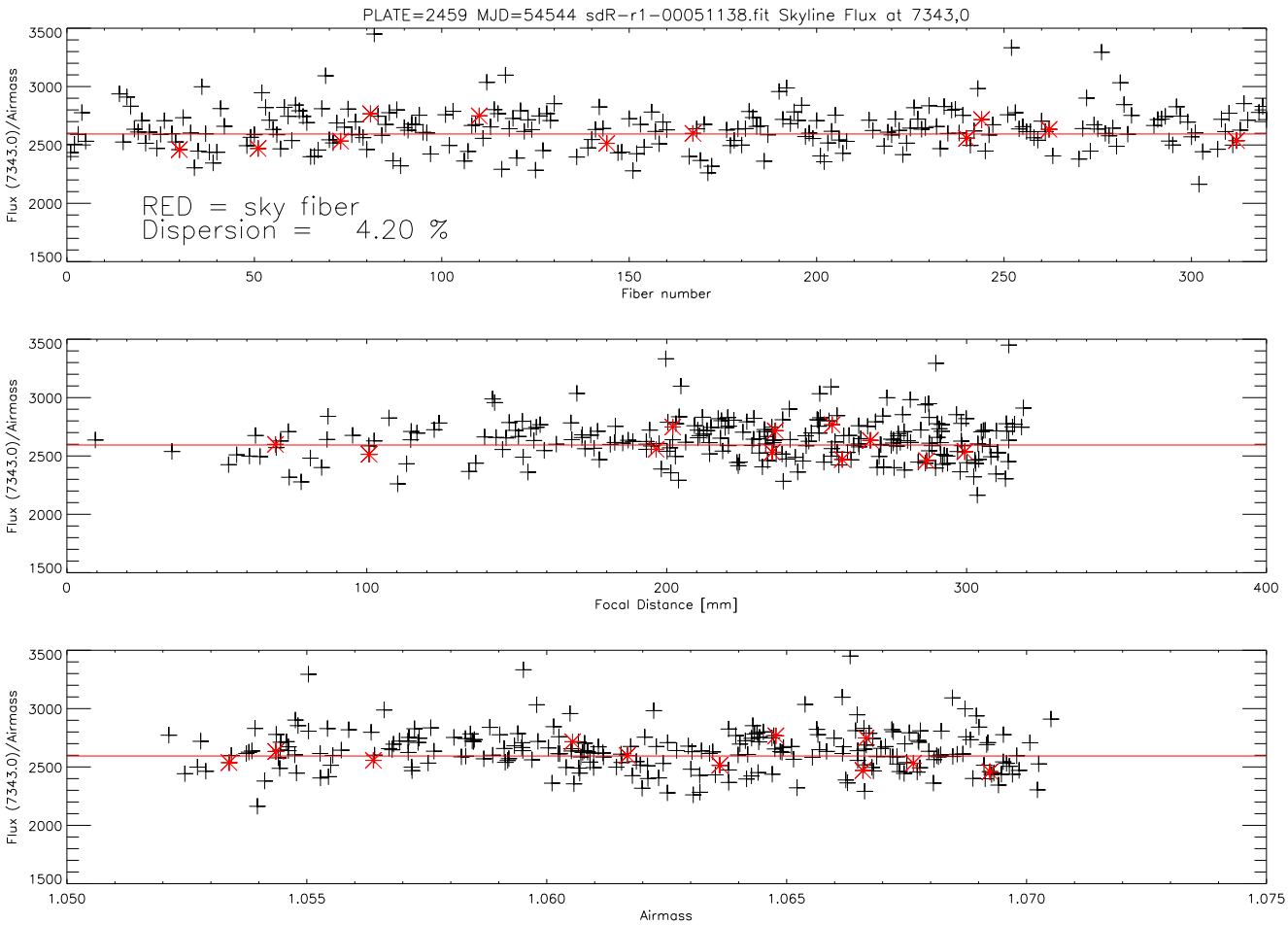

Number of sky fibers = 11
PLATE=2459 MJD=54544 sdR-r1-00051138.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

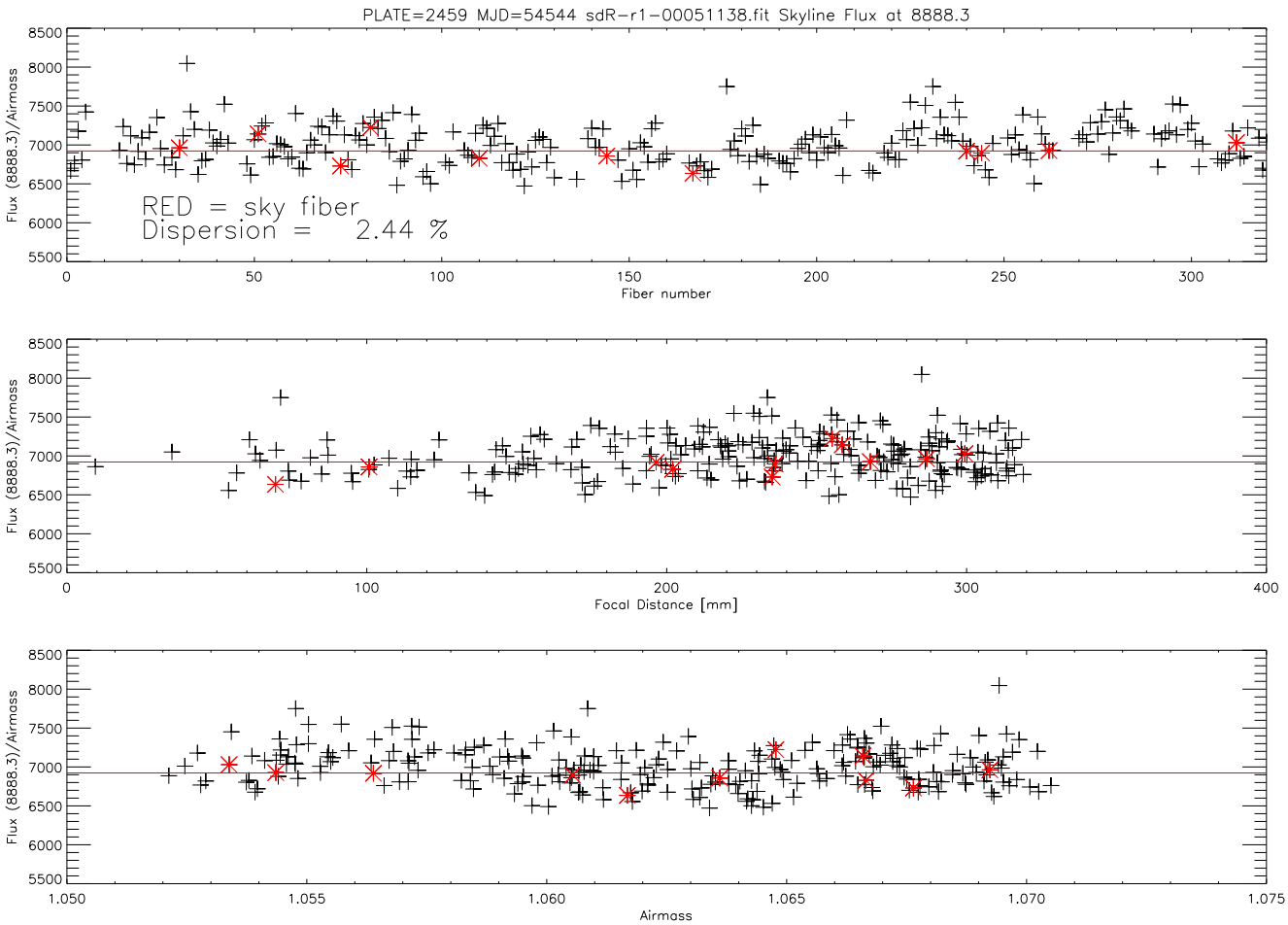

PLATE=2459 MJD=54544 sdR-r1-00051138.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

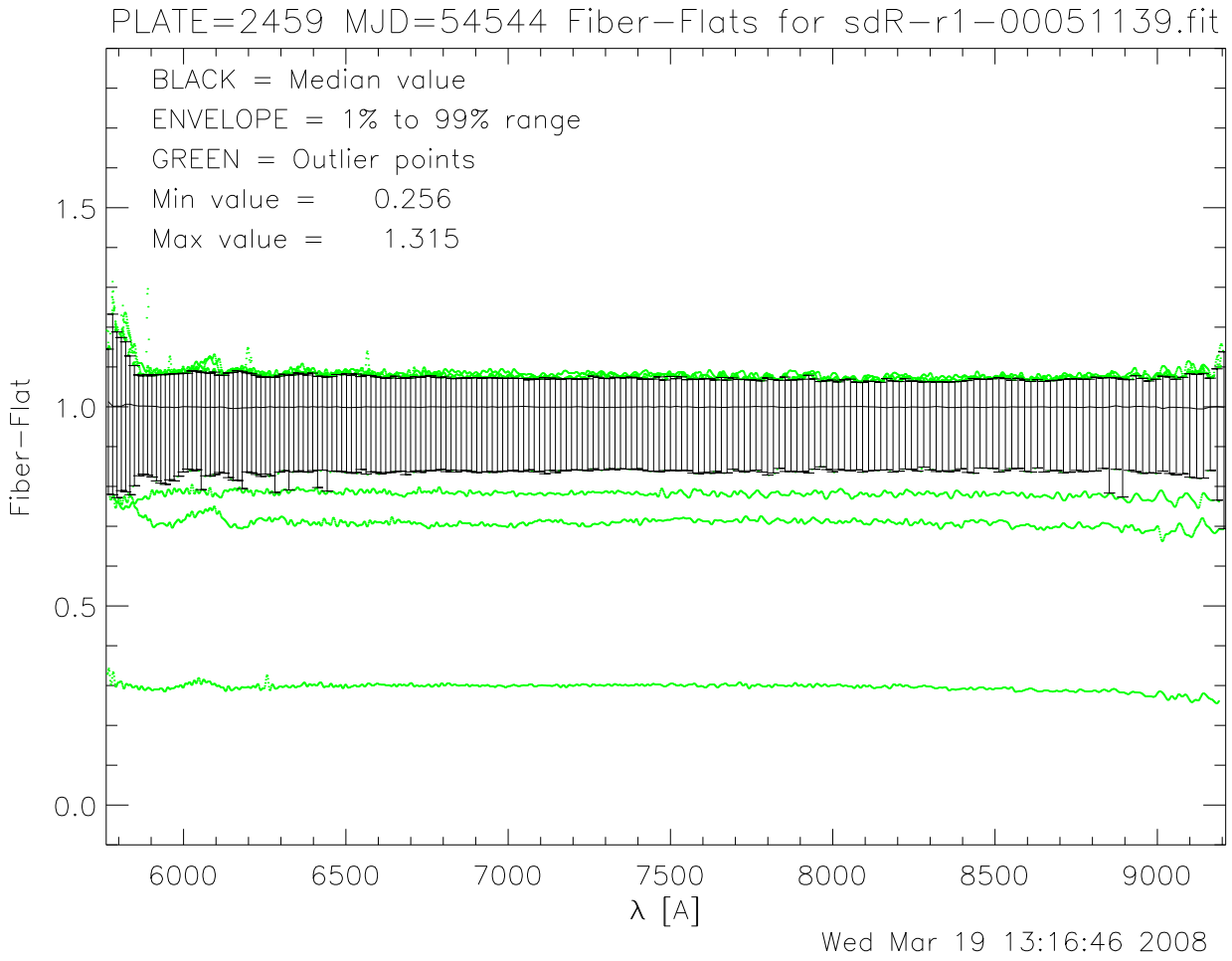

PLATE=2459 MJD=54544 sdR-r1-00051138.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

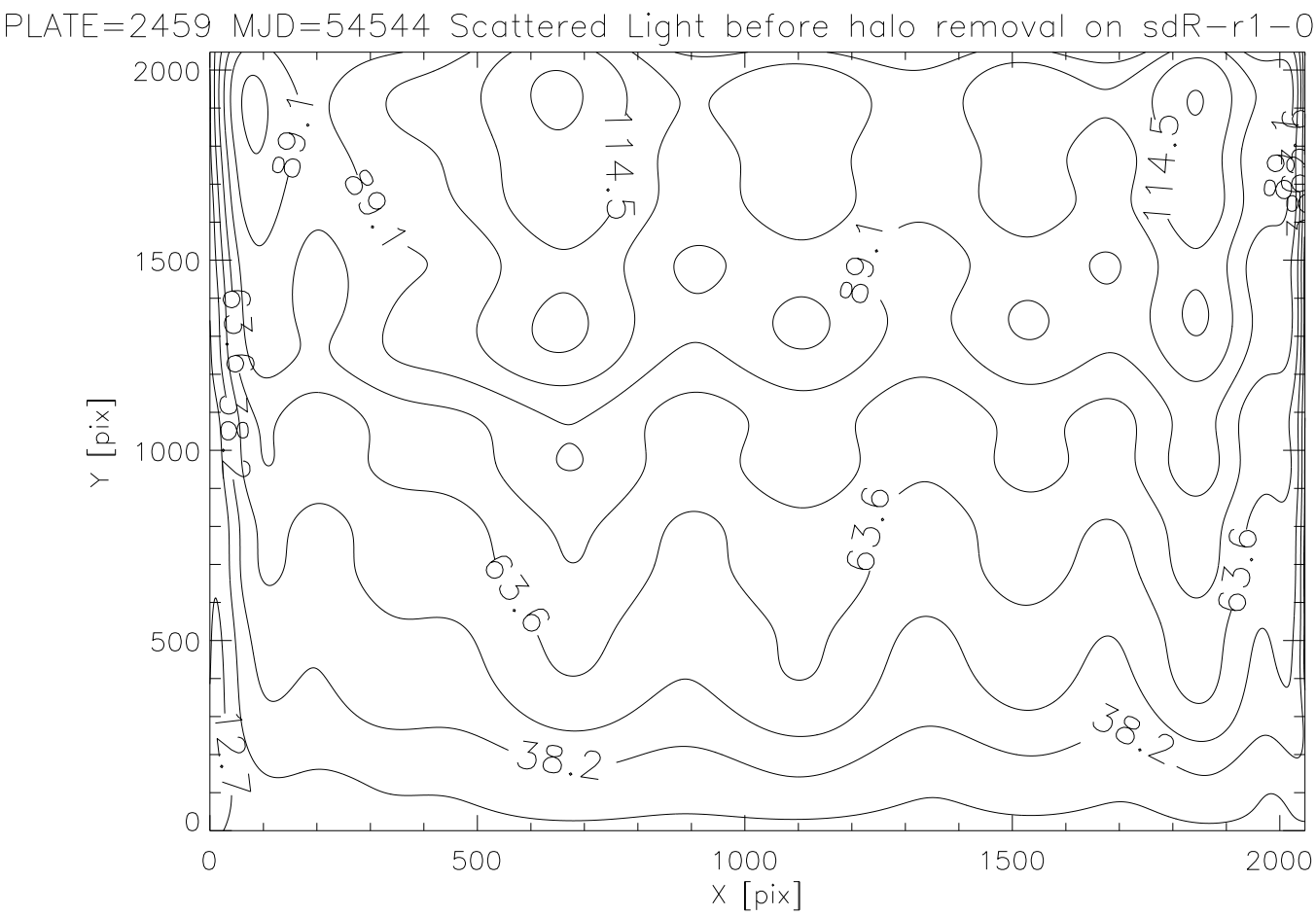

PLATE=2459 MJD=54544 sdR-r1-00051138.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

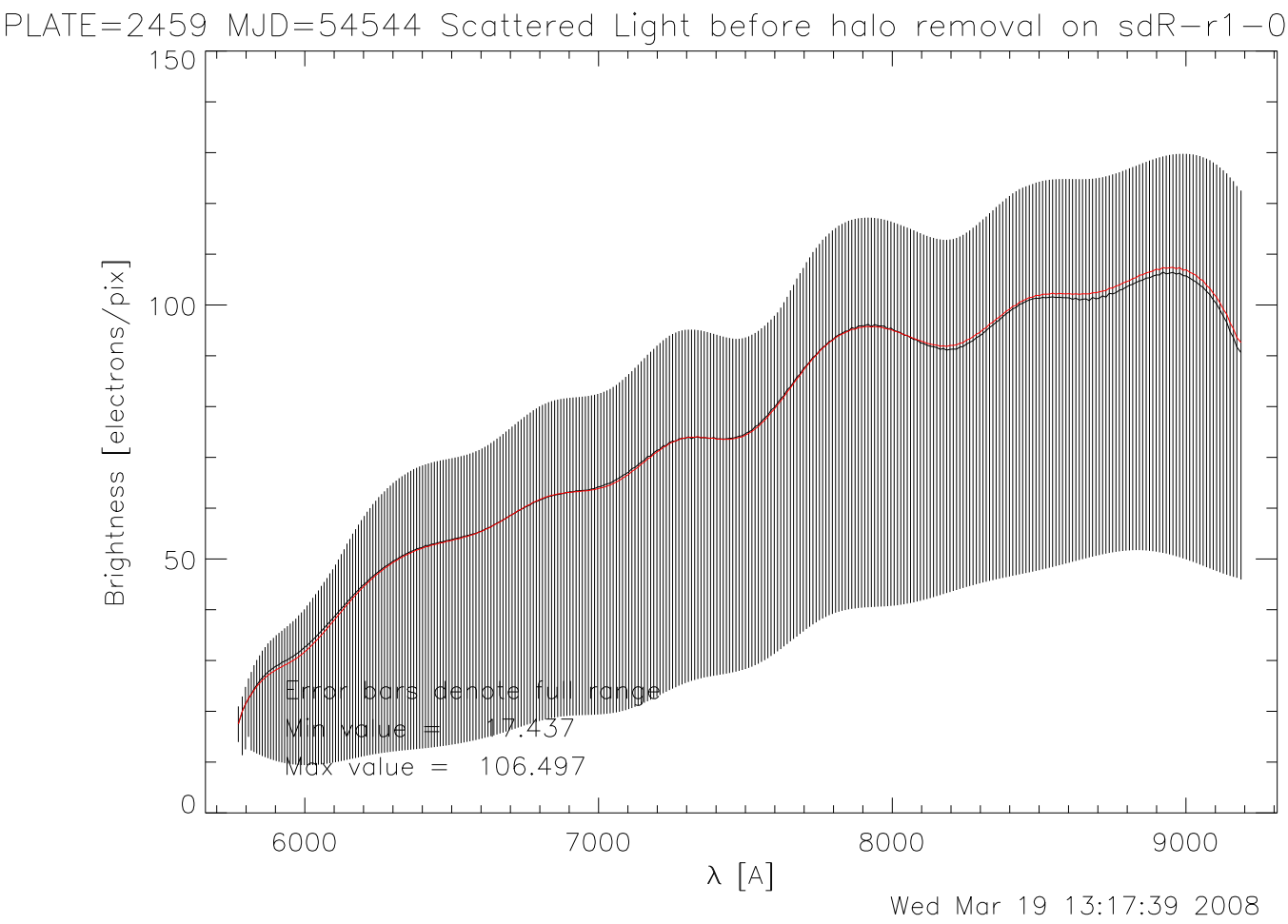

Number of sky fibers = 11
PLATE=2459 MJD=54544 sdR-r1-00051138.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

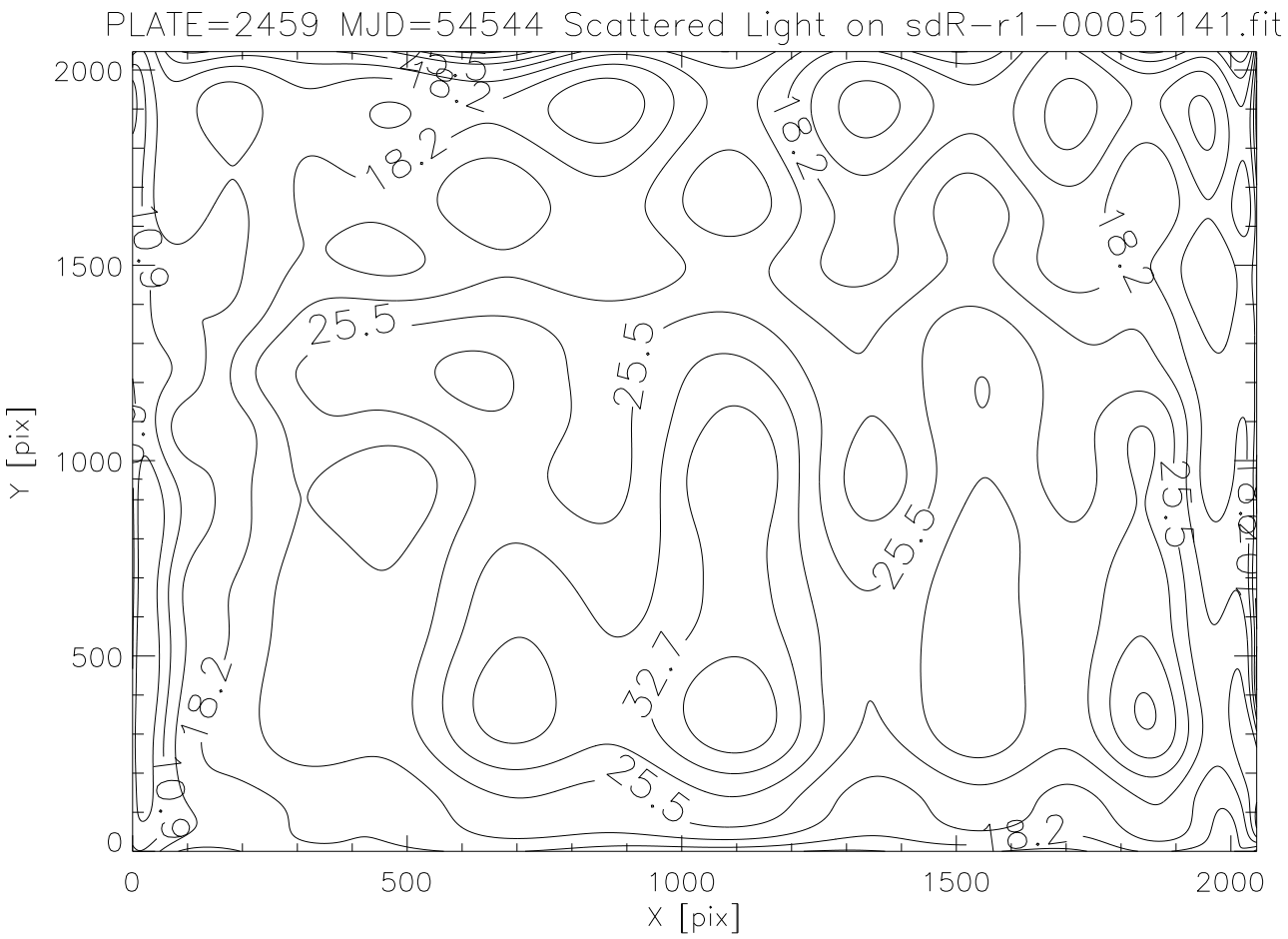

PLATE=2459 MJD=54544 sdR-r1-00051138.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 4.20 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

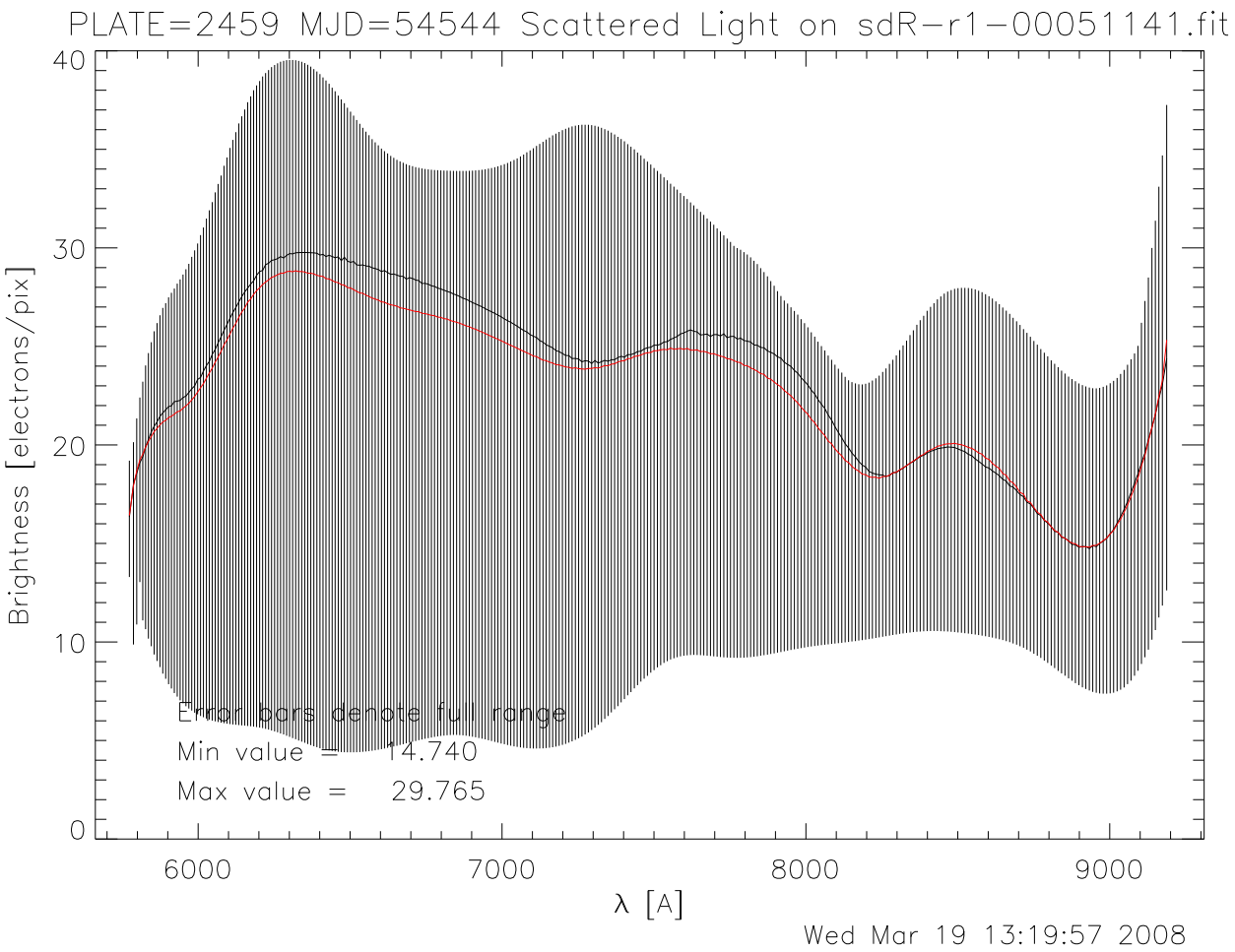

PLATE=2459 MJD=54544 sdR-r1-00051138.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.44 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

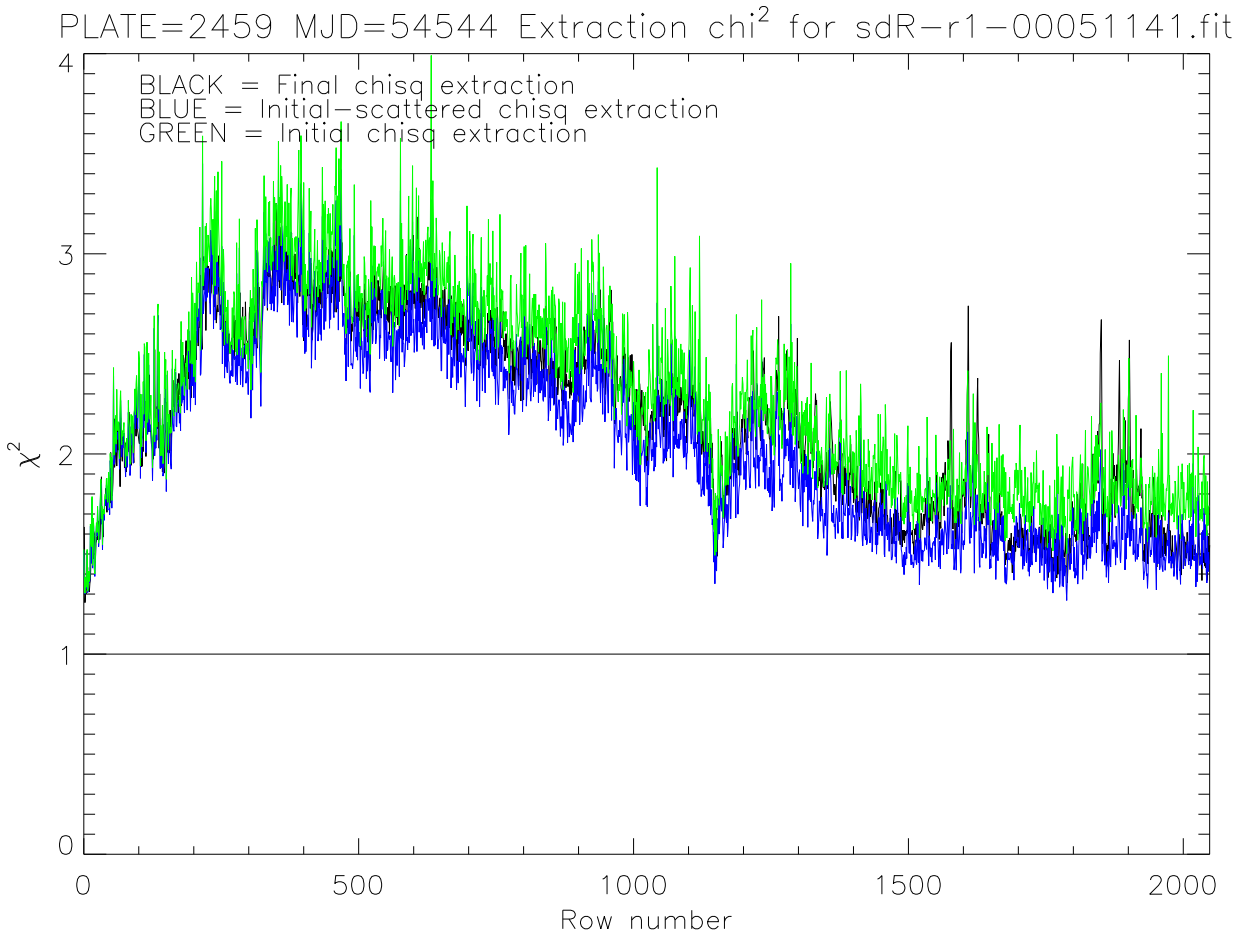

PLATE=2459 MJD=54544 Fiber−Flats for sdR−r1−00051139.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.256
Max value = 1.315
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 19 13:16:46 2008

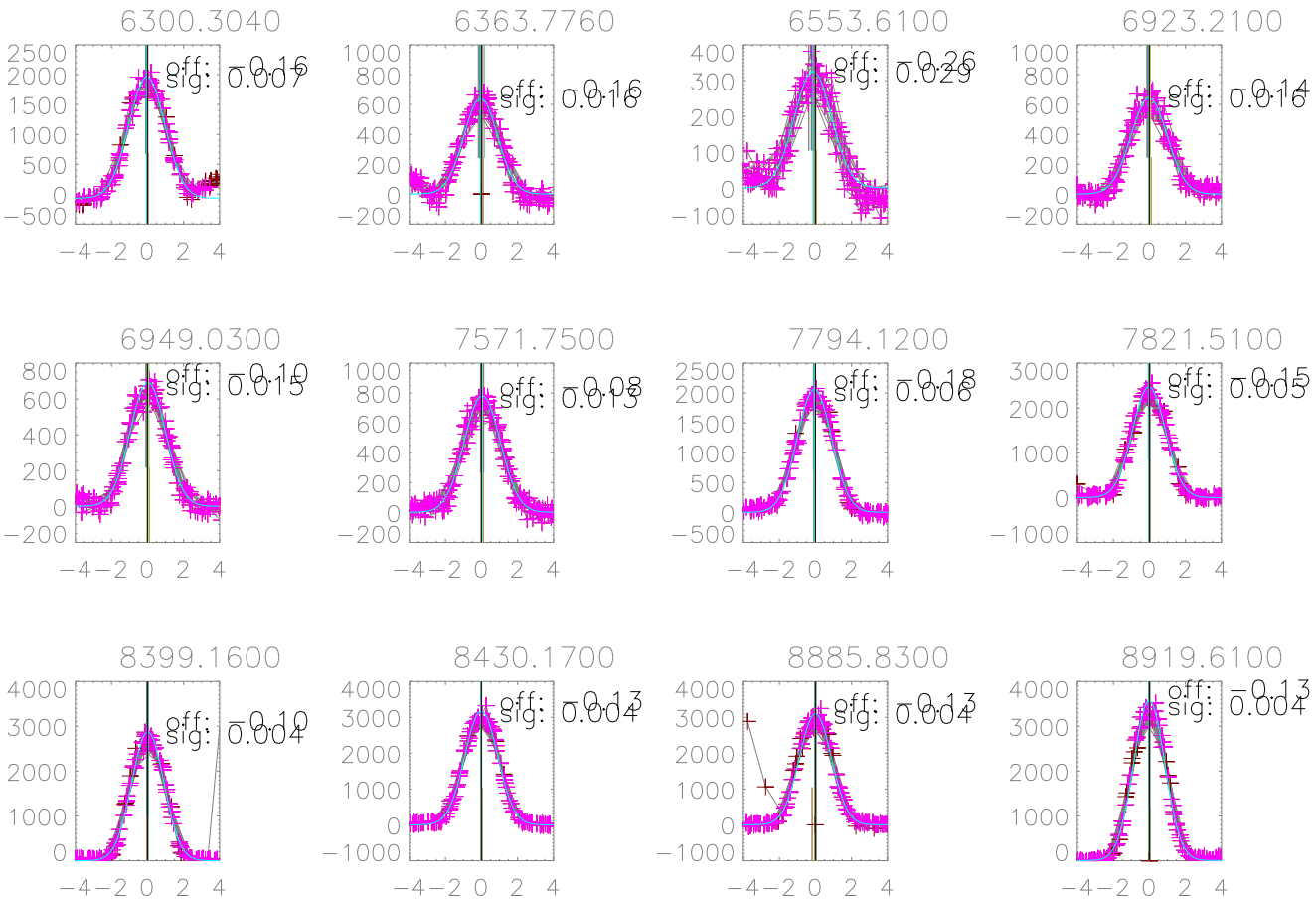

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-r1-00051141.fi
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
89.1
114.5
63.6
38.2
12.7

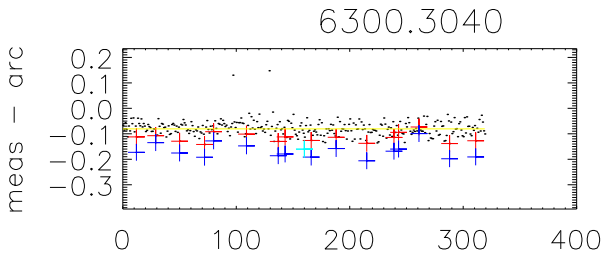

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-r1-00051141.fi
150
100
50
0
Brightness [electrons/pix]
Error bars denote full range
Min value = 17.437
Max value = 106.497
6000
7000
8000
9000
λ [A]
Wed Mar 19 13:17:39 2008

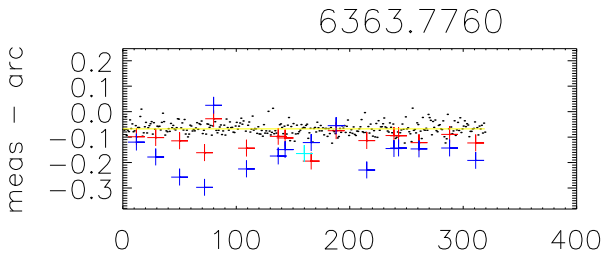

PLATE=2459 MJD=54544 Scattered Light on sdR-r1-00051141.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
18.2
25.5
32.7

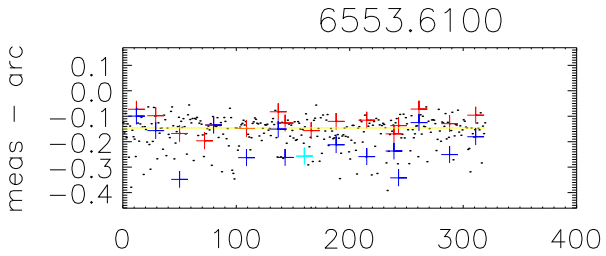

PLATE=2459 MJD=54544 Scattered Light on sdR-r1-00051141.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 14.740
Max value = 29.765
Wed Mar 19 13:19:57 2008

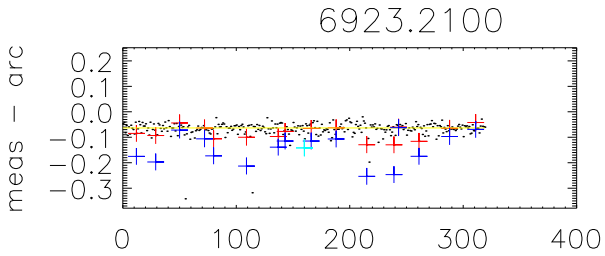

PLATE=2459 MJD=54544 Extraction chi^2 for sdR−r1−00051141.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

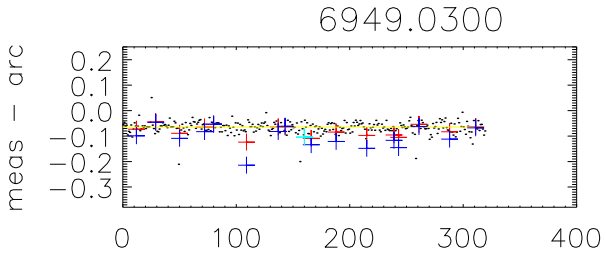

6300.3040
off: −0.16
sig: 0.007
6363.7760
off: −0.16
sig: 0.016
6553.6100
off: −0.26
sig: 0.029
6923.2100
off: −0.14
sig: 0.016
6949.0300
off: −0.10
sig: 0.015
7571.7500
off: −0.08
sig: 0.013
7794.1200
off: −0.18
sig: 0.006
7821.5100
off: −0.15
sig: 0.005
8399.1600
off: −0.10
sig: 0.004
8430.1700
off: −0.13
sig: 0.004
8885.8300
off: −0.13
sig: 0.004
8919.6100
off: −0.13
sig: 0.004

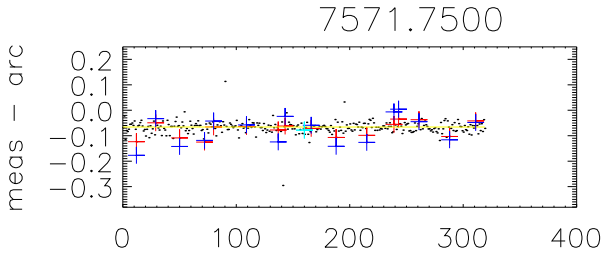

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

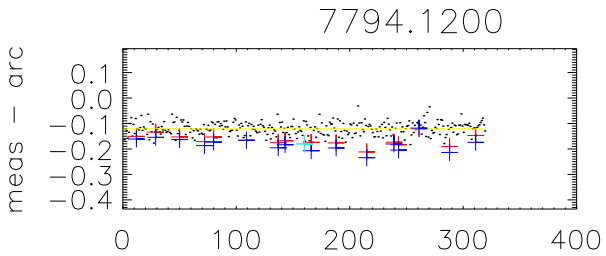

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

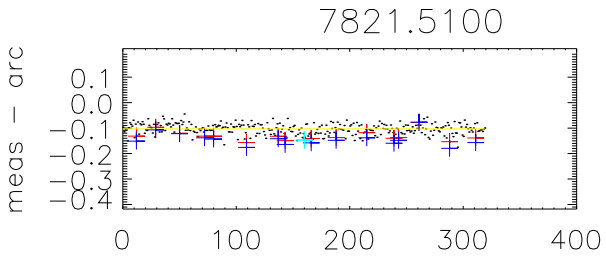

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

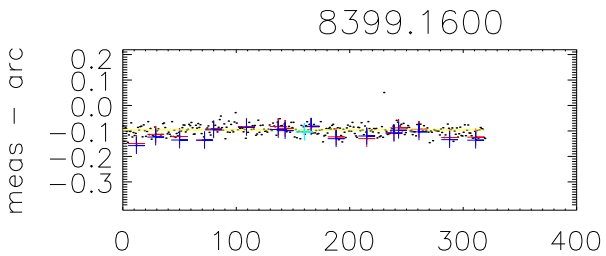

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

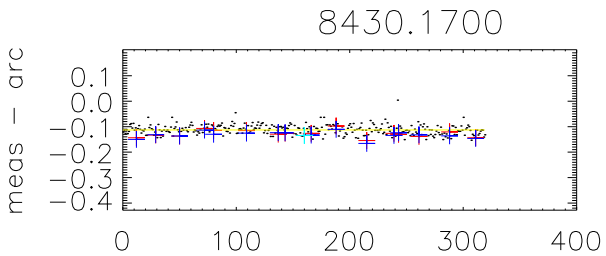

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

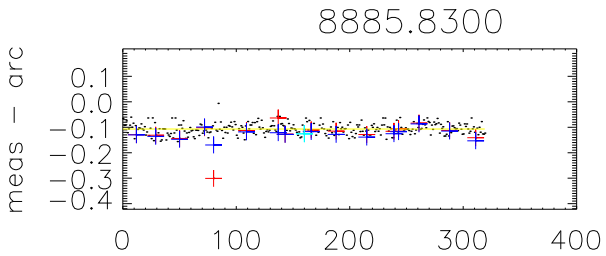

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

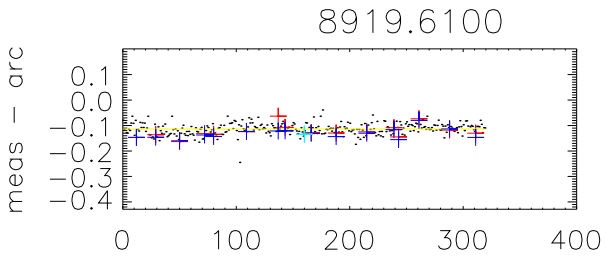

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

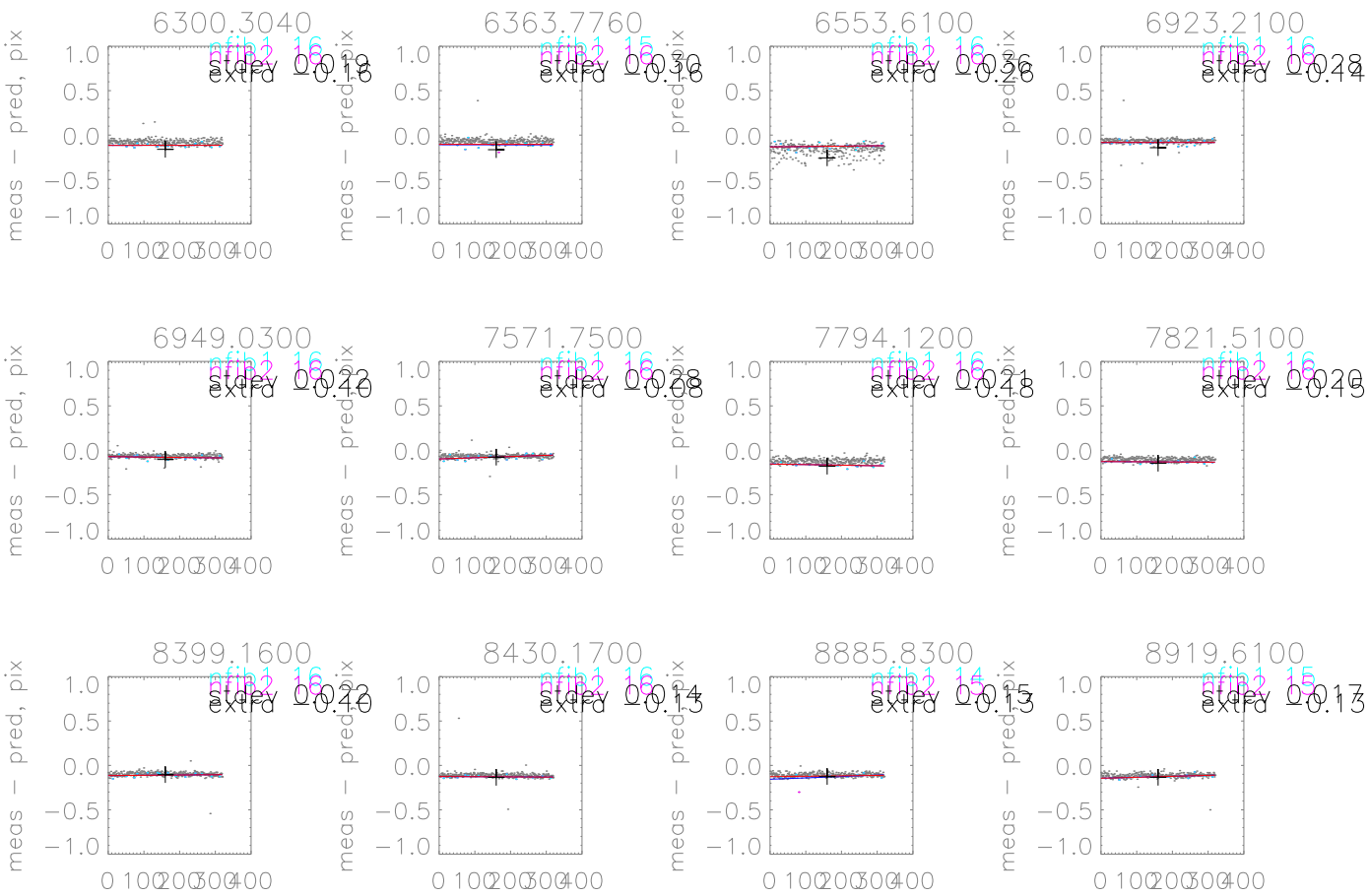

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

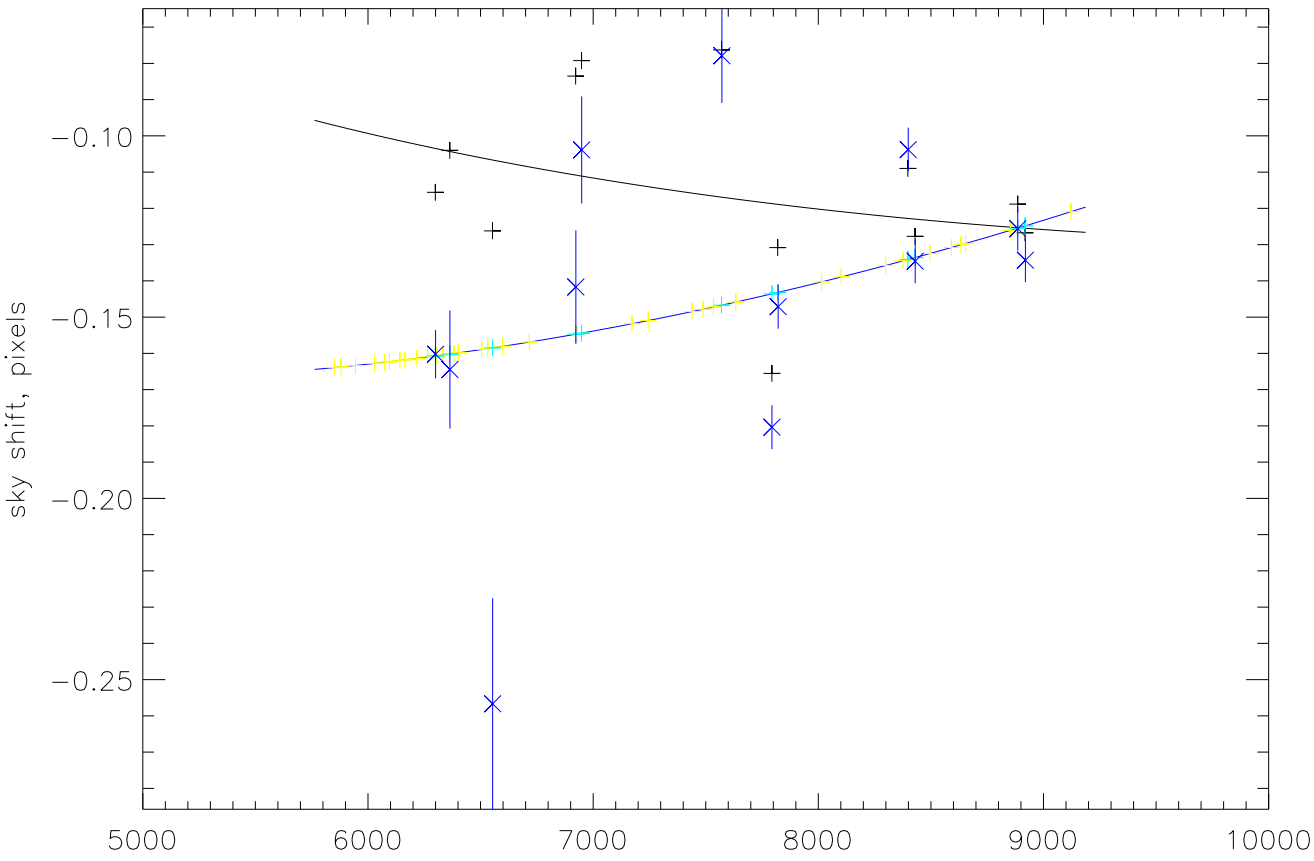

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

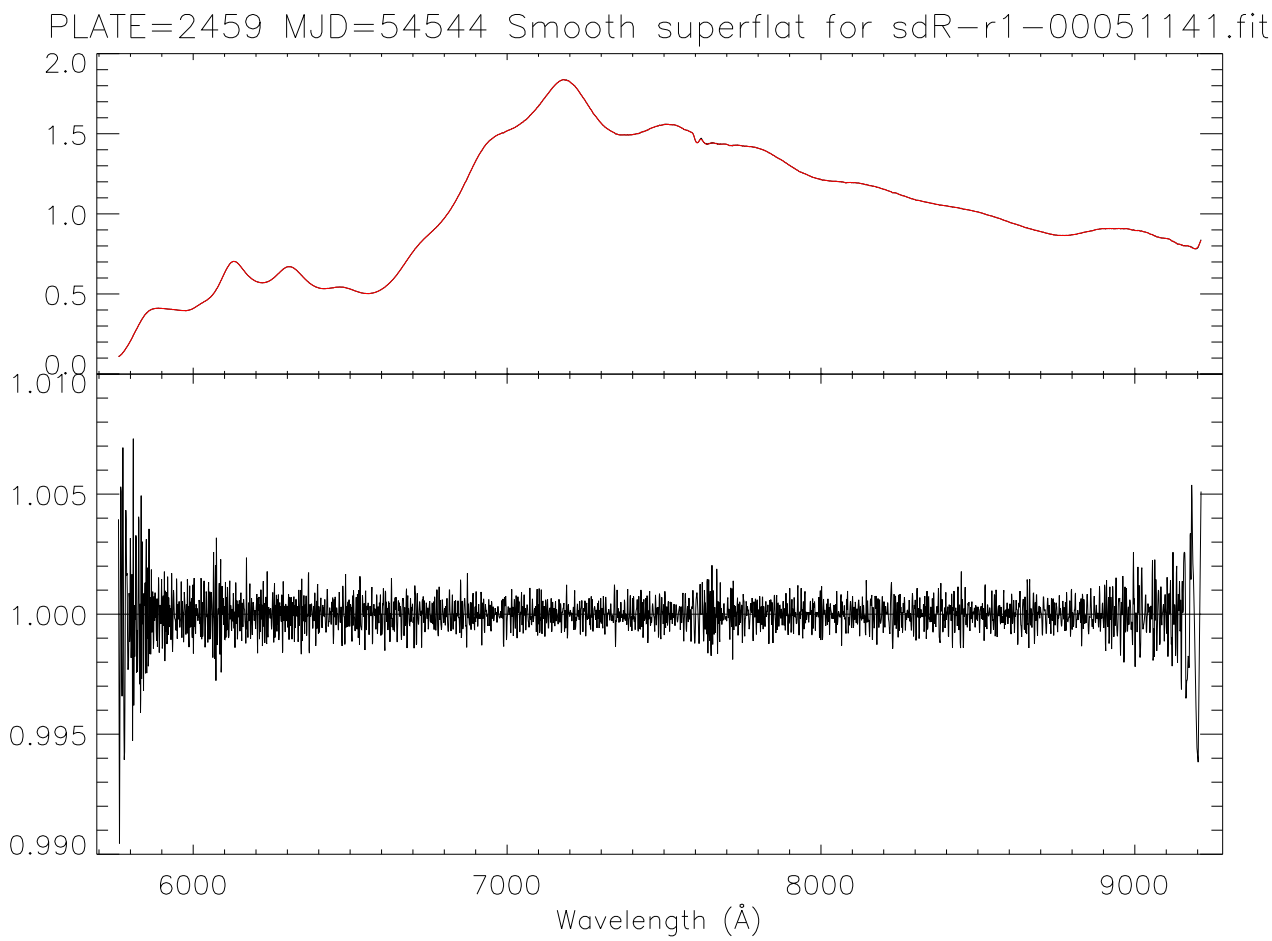

8885.8300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

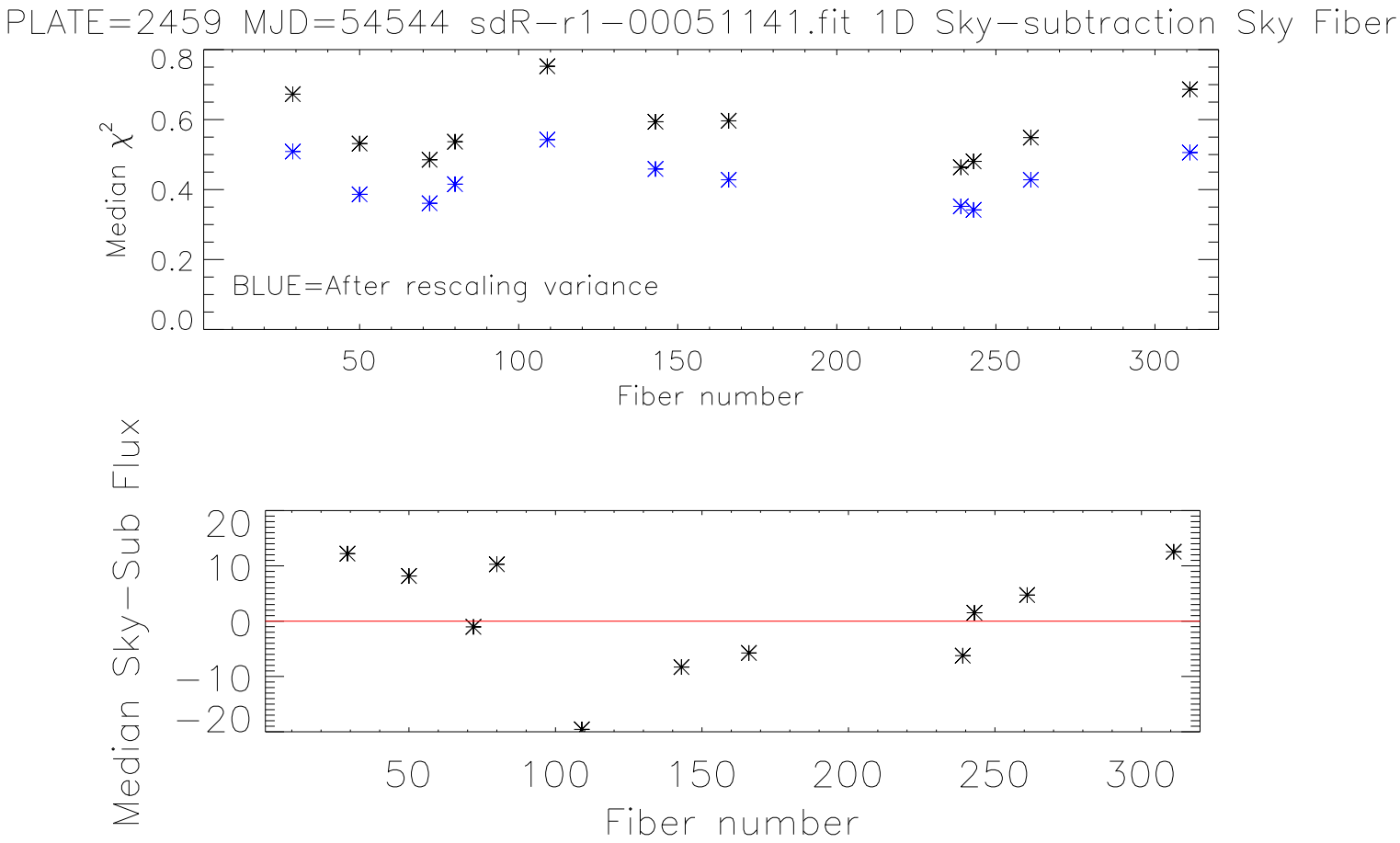

8919.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

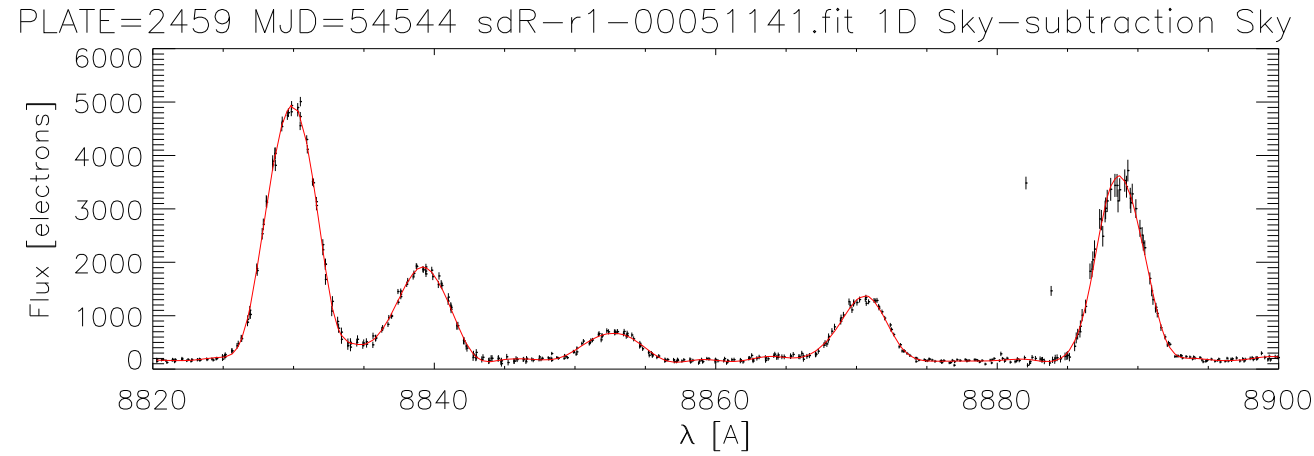

6300.3040
6363.7760
6553.6100
6923.2100
6949.0300
7571.7500
7794.1200
7821.5100
8399.1600
8430.1700
8885.8300
8919.6100
meas − pred, pix
mfib1 16
mfib2 16
stdev 0.019
extra 0.18
stdev 0.016
extra 0.16
stdev 0.026
extra 0.26
stdev 0.014
extra 0.14
stdev 0.022
extra 0.46
stdev 0.008
extra 0.08
stdev 0.041
extra 0.48
stdev 0.045
extra 0.45
stdev 0.022
extra 0.46
stdev 0.014
extra 0.13
mfib1 14
stdev 0.015
extra 0.13
stdev 0.017
extra 0.13

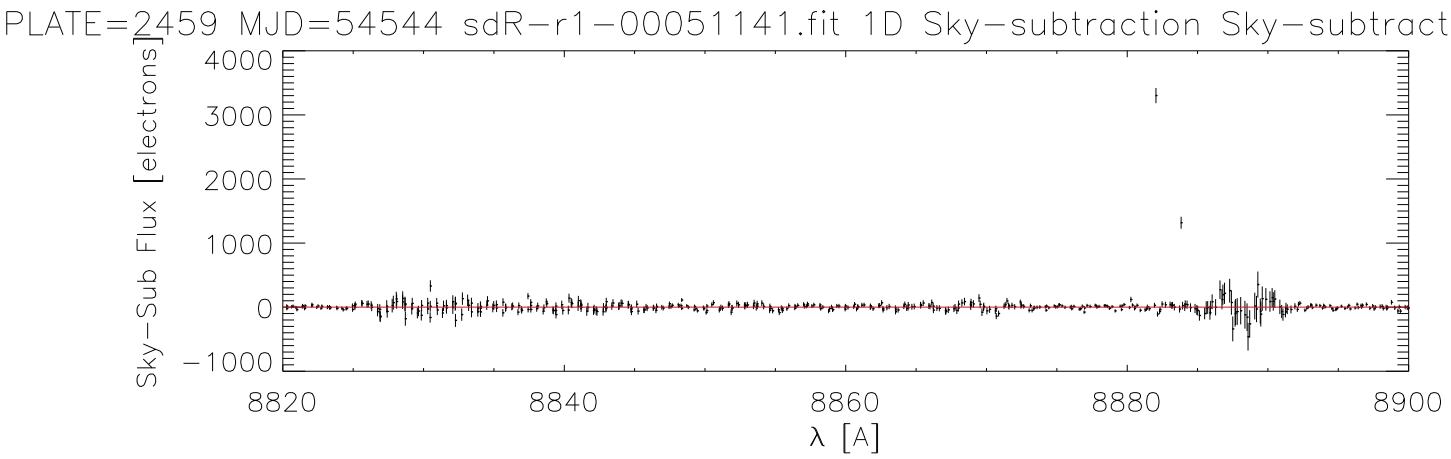

sky shift, pixels
−0.10
−0.15
−0.20
−0.25
5000
6000
7000
8000
9000
10000

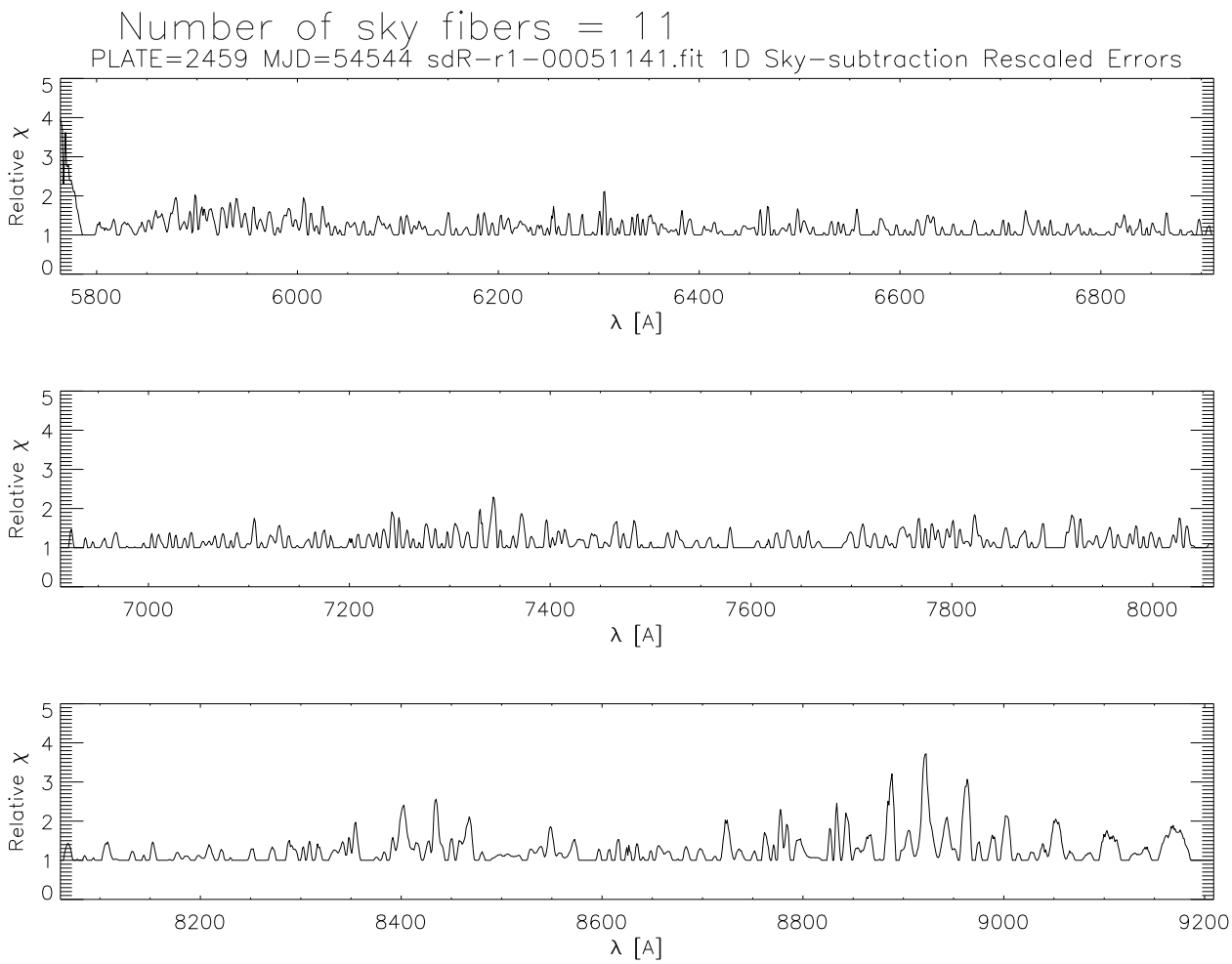
es= 0.0000

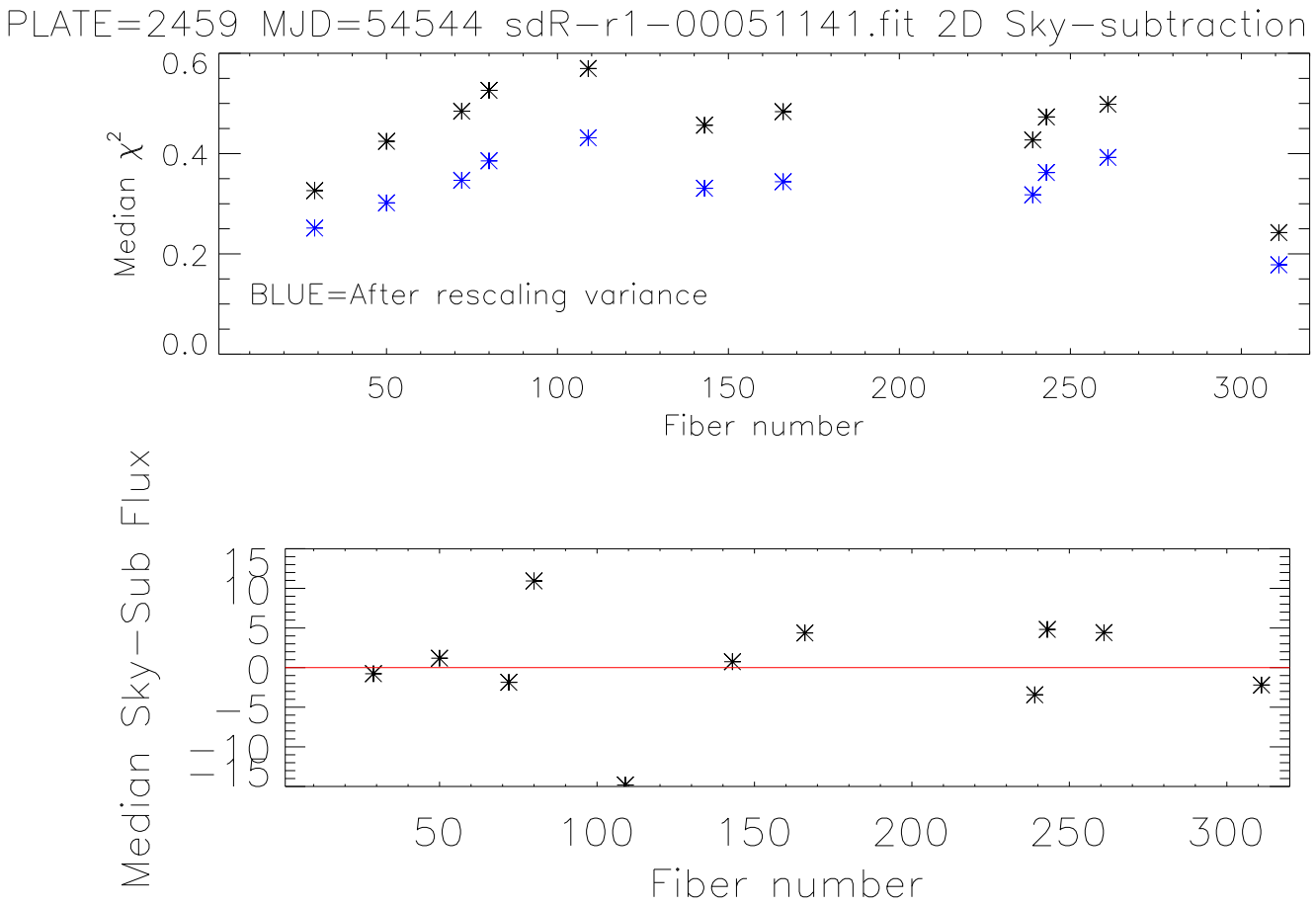

PLATE=2459 MJD=54544 Smooth superflat for sdR-r1-00051141.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

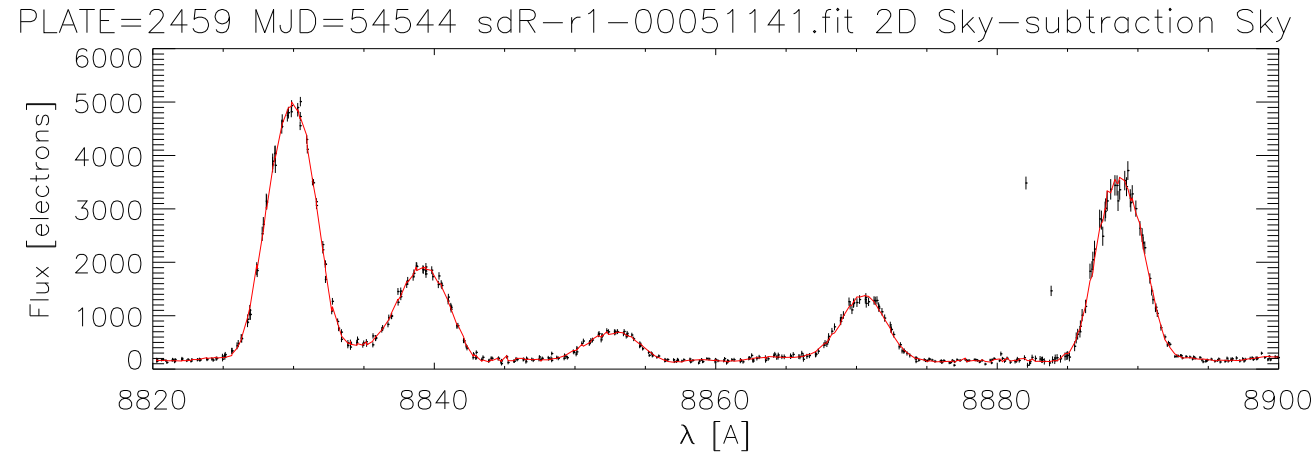

PLATE=2459 MJD=54544 sdR-r1-00051141.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
10
0
-10
-20
50
100
150
200
250
300
Fiber number

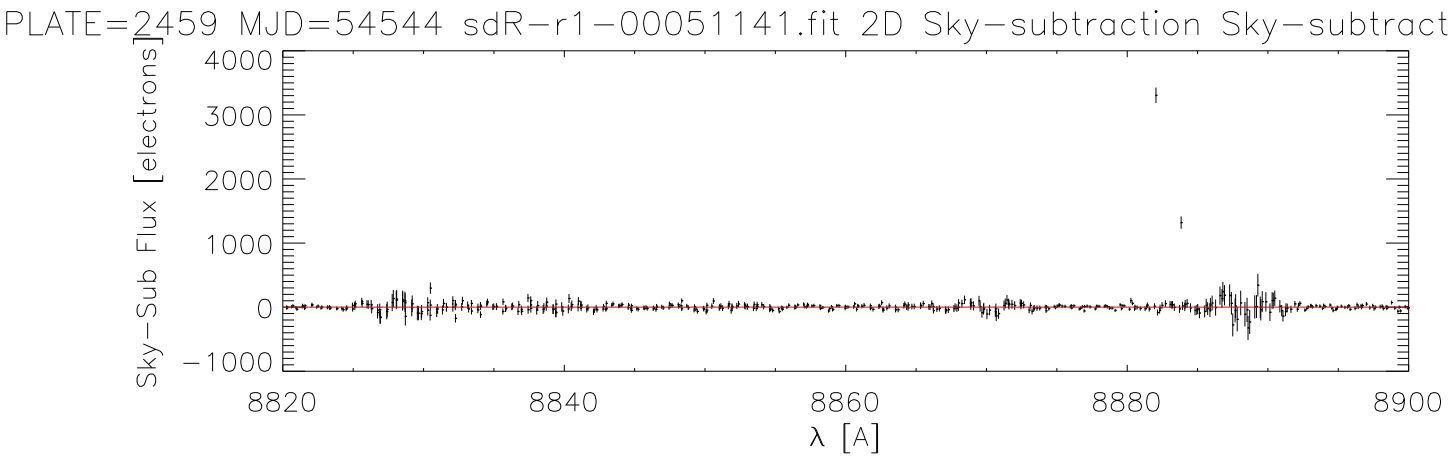

PLATE=2459 MJD=54544 sdR-r1-00051141.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

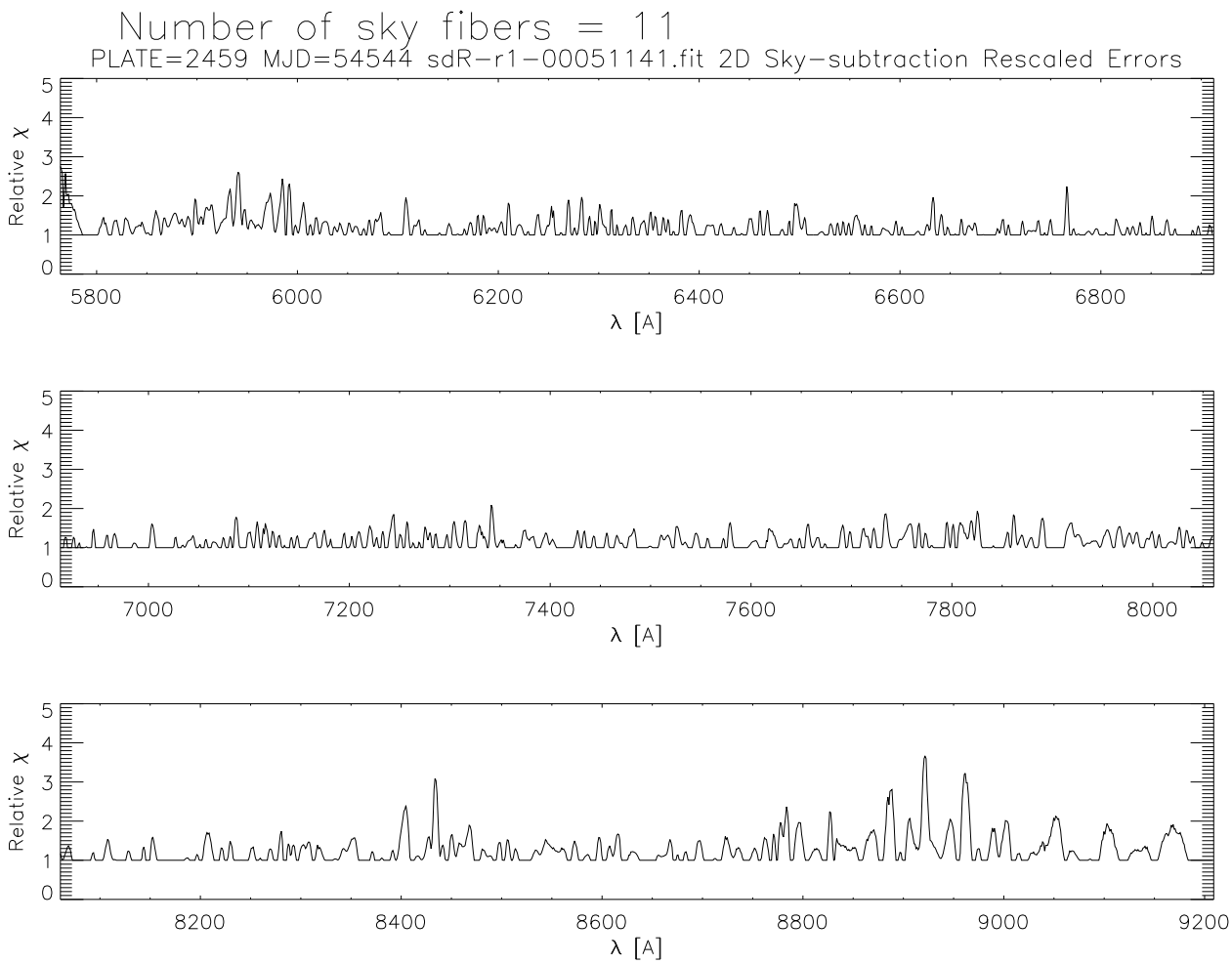

PLATE=2459 MJD=54544 sdR-r1-00051141.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

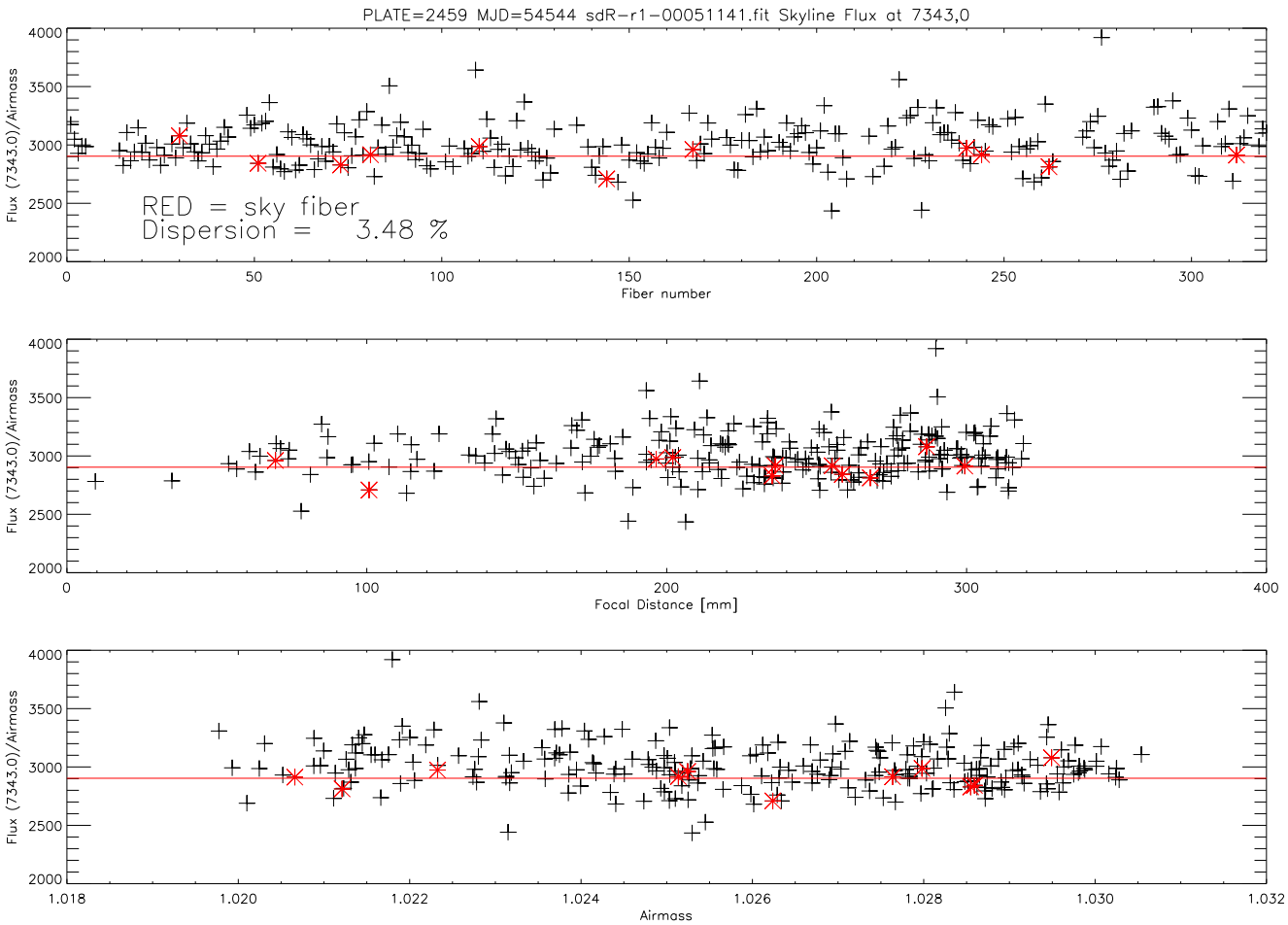

Number of sky fibers = 11
PLATE=2459 MJD=54544 sdR-r1-00051141.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

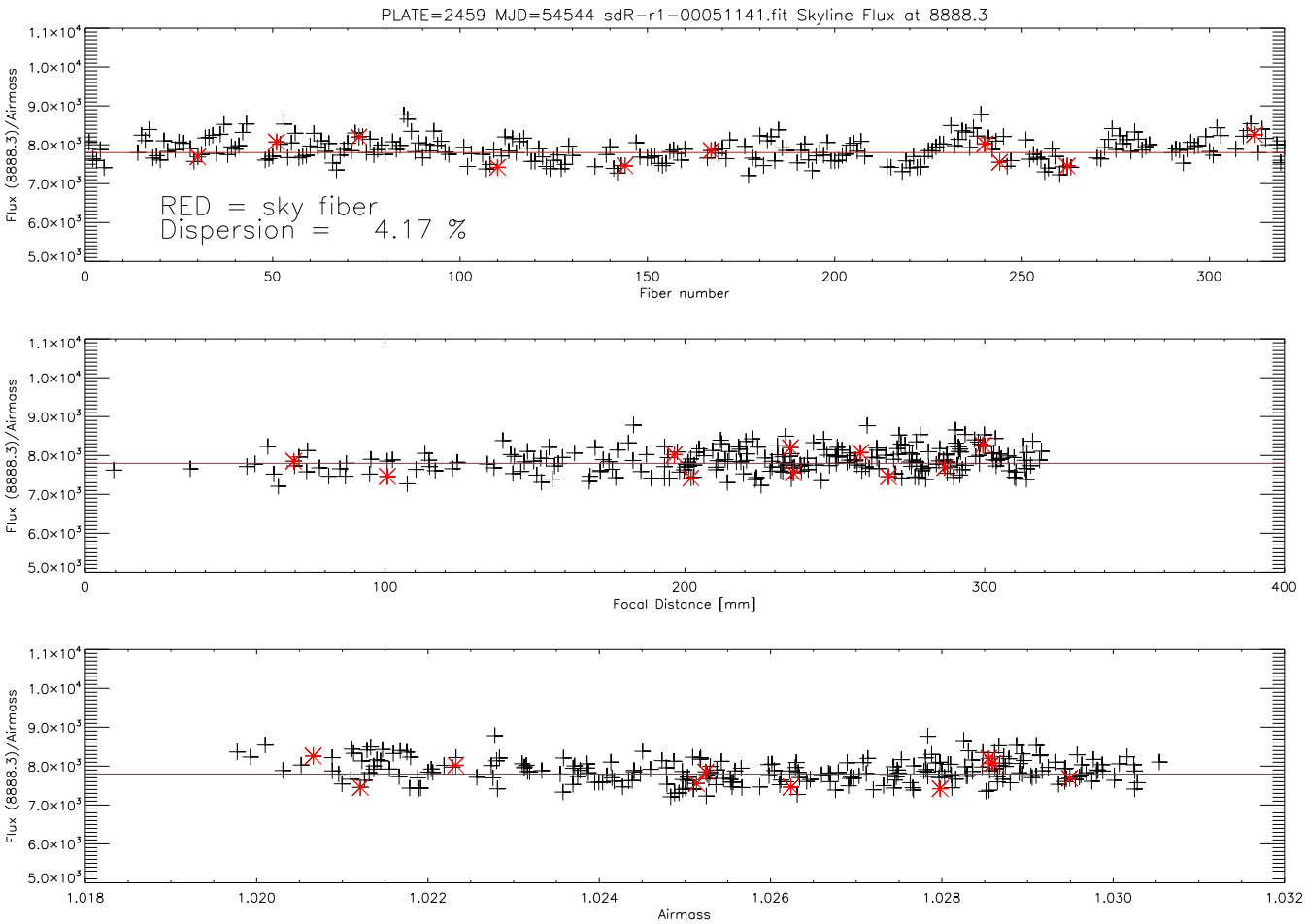

PLATE=2459 MJD=54544 sdR-r1-00051141.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
15
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

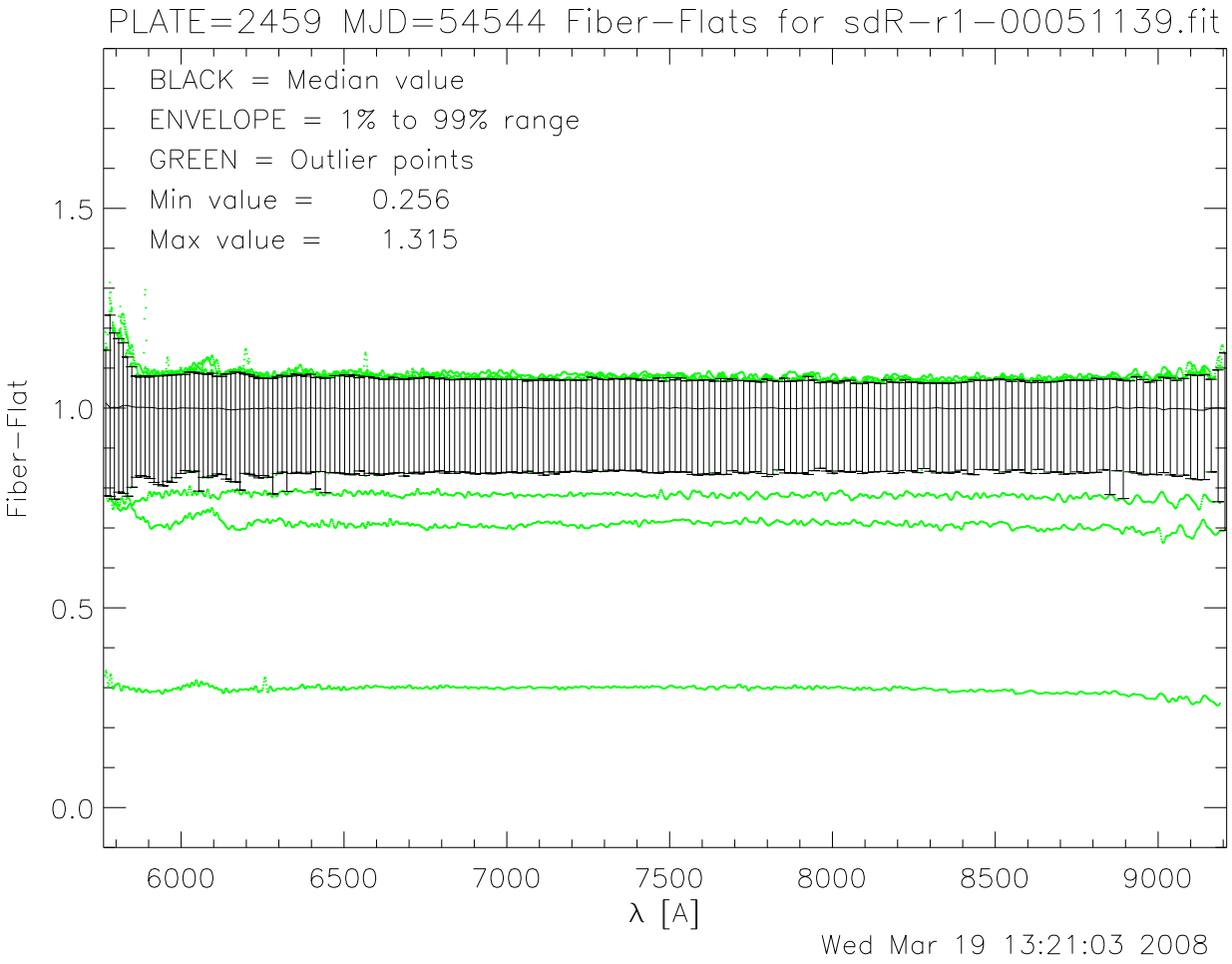

PLATE=2459 MJD=54544 sdR-r1-00051141.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

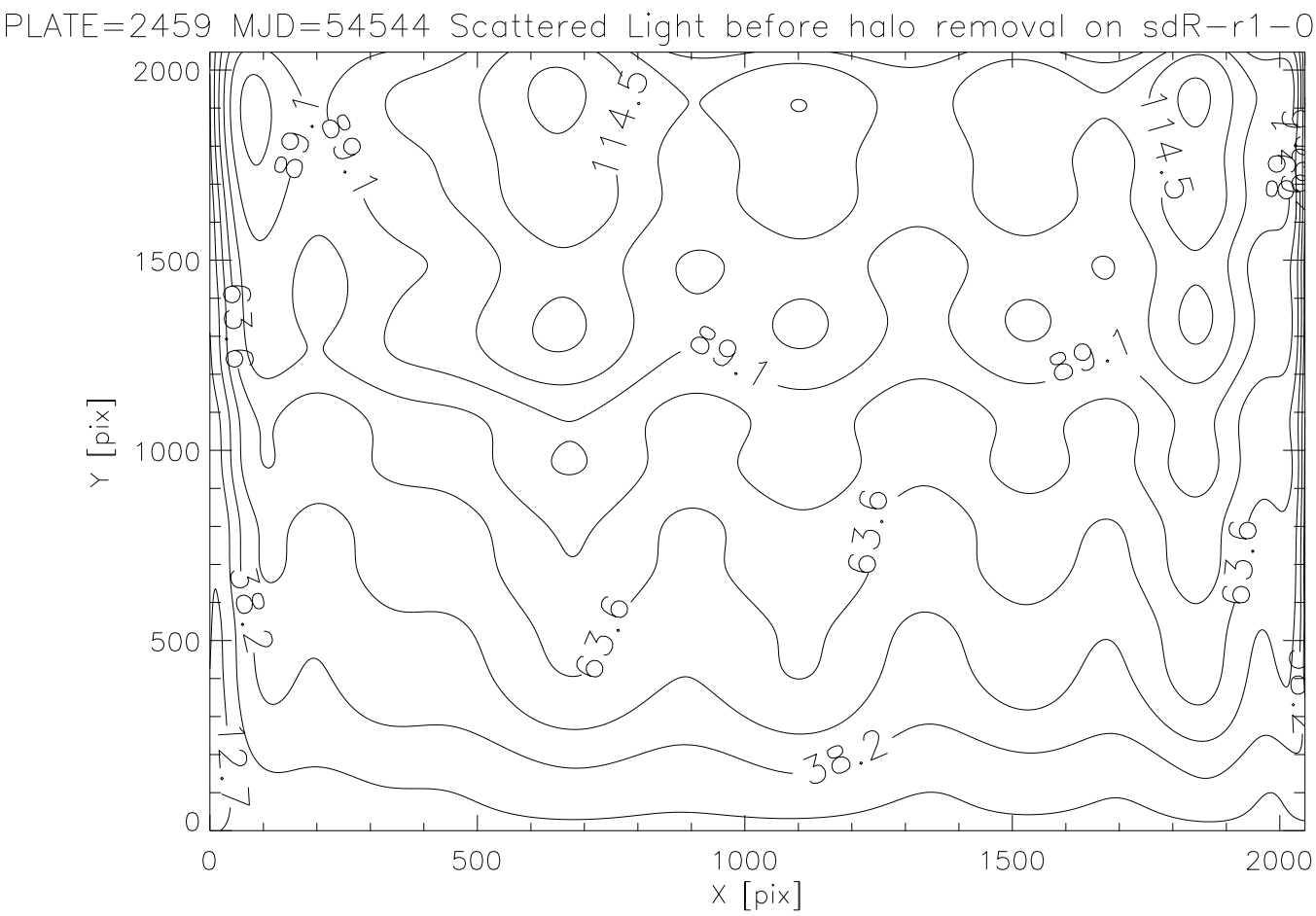

PLATE=2459 MJD=54544 sdR-r1-00051141.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

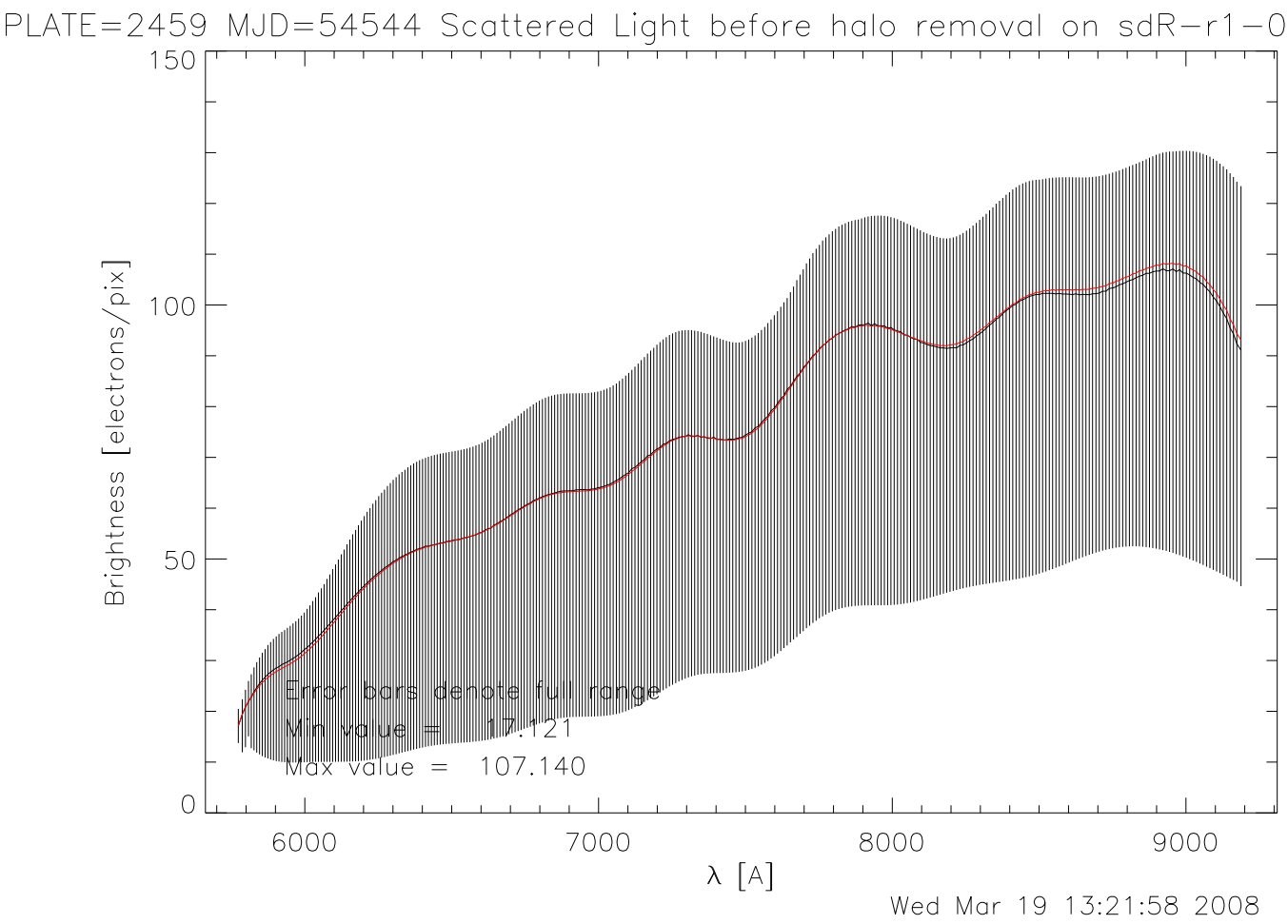

Number of sky fibers = 11
PLATE=2459 MJD=54544 sdR-r1-00051141.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

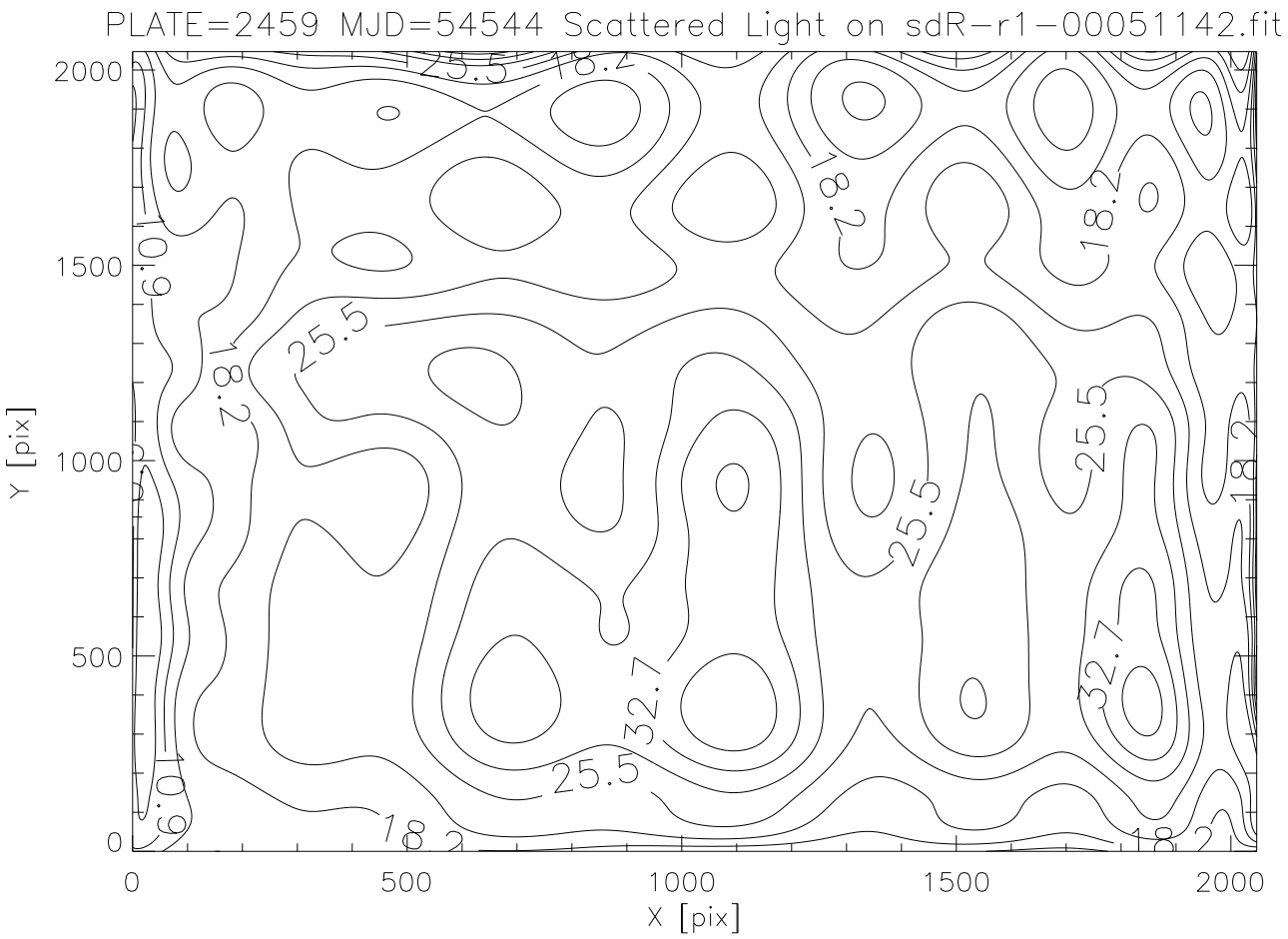

PLATE=2459 MJD=54544 sdR-r1-00051141.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.48 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

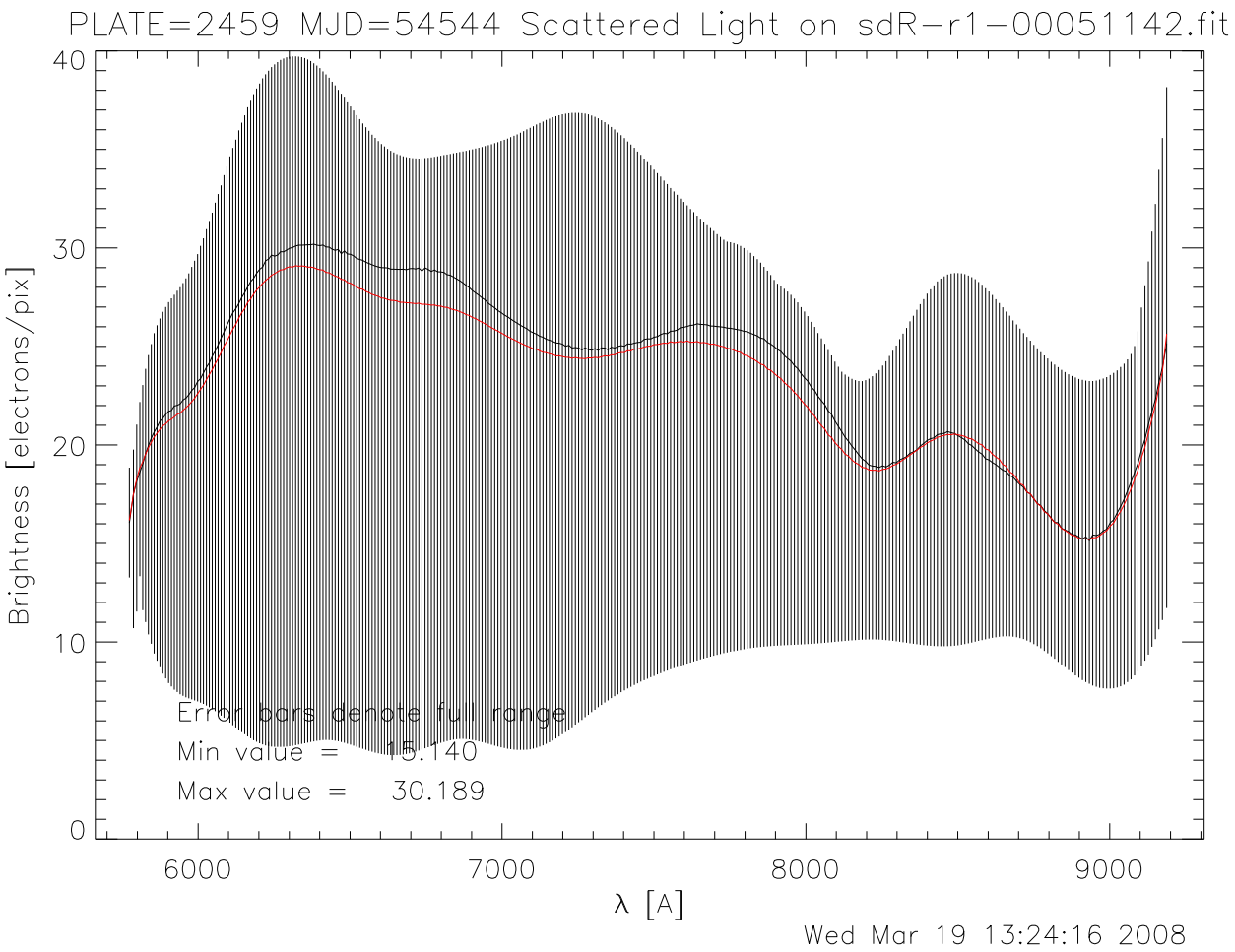

PLATE=2459 MJD=54544 sdR-r1-00051141.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 4.17 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

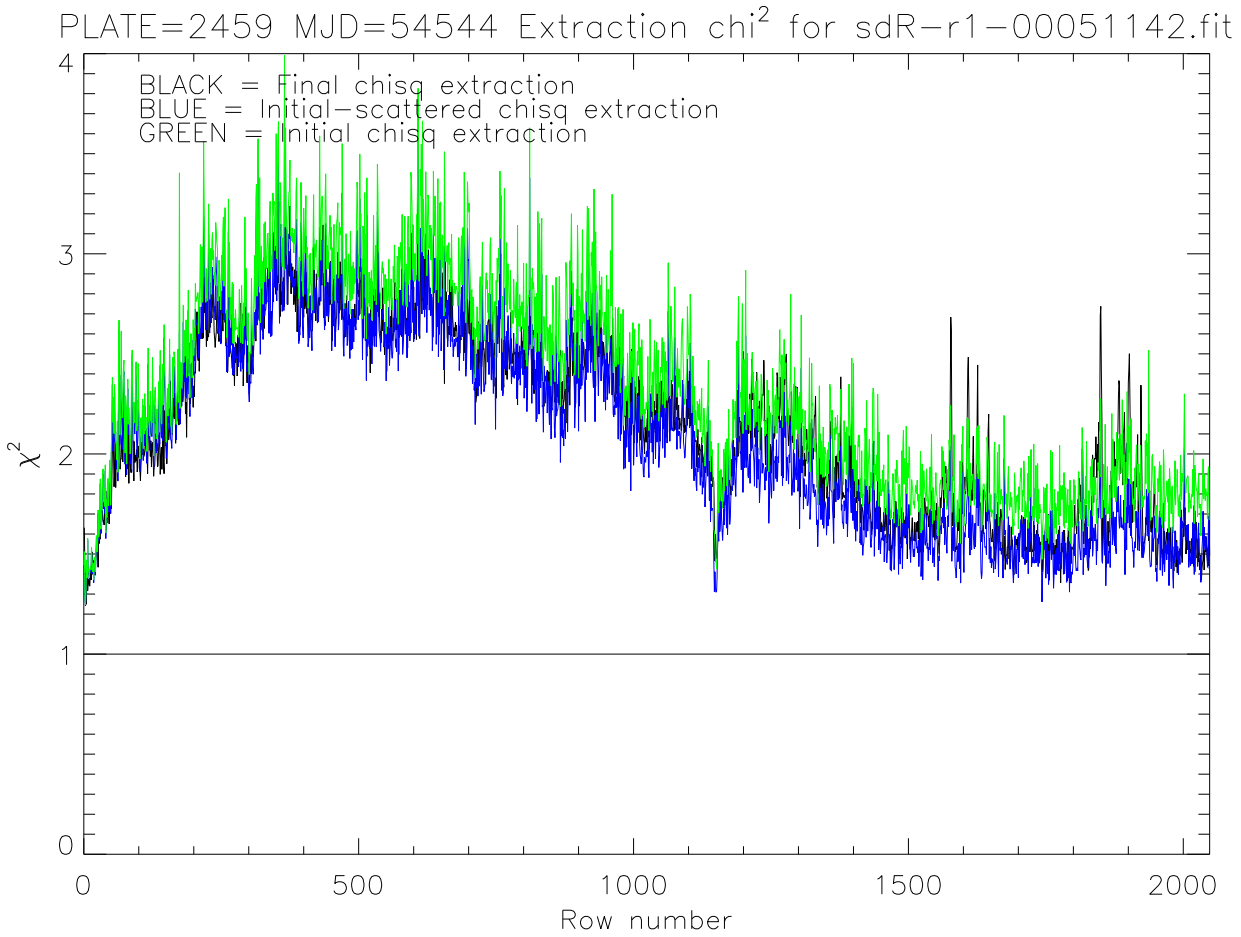

PLATE=2459 MJD=54544 Fiber−Flats for sdR−r1−00051139.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.256
Max value = 1.315
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 19 13:21:03 2008

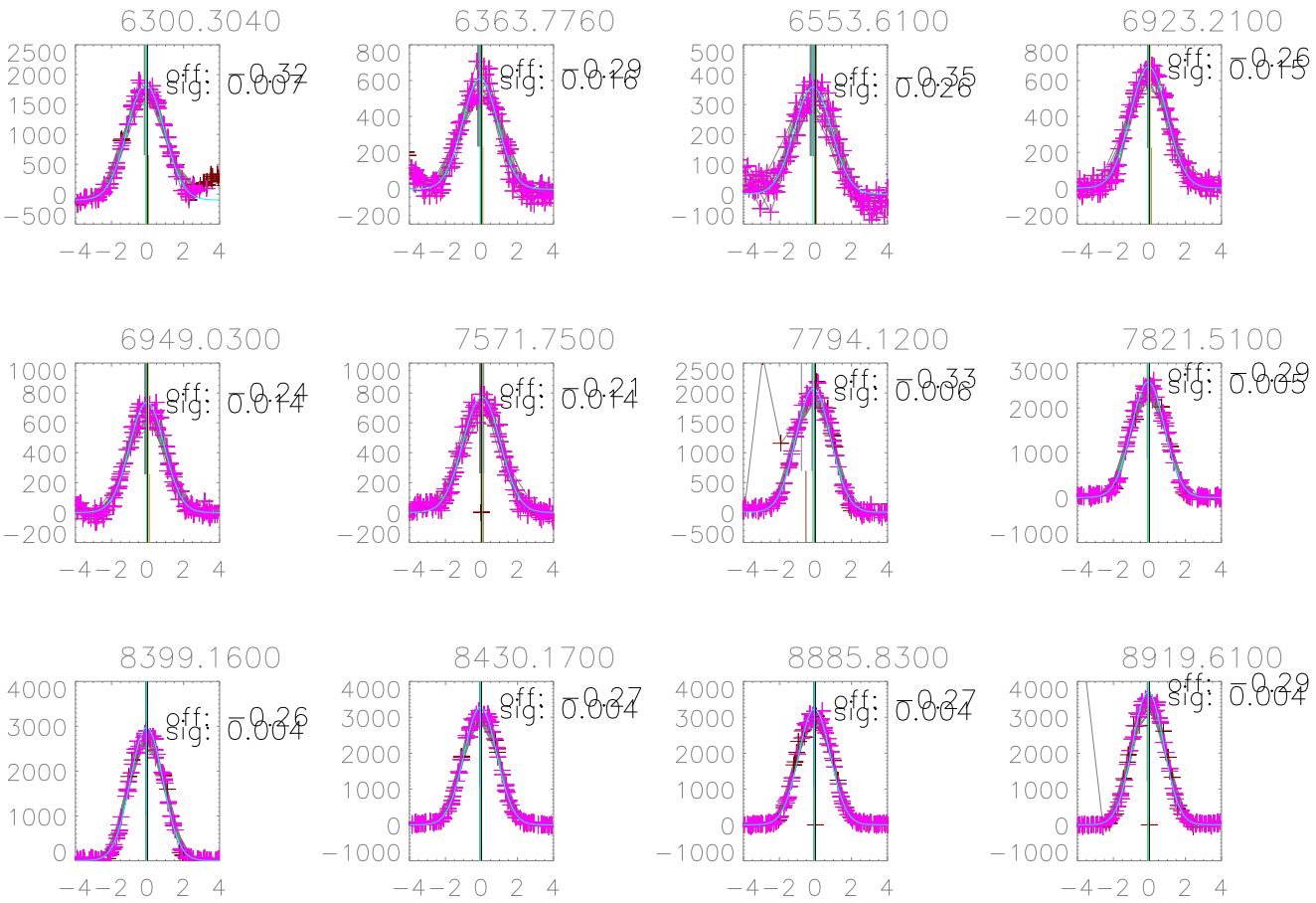

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-r1-00051142.fi
Y [pix]
X [pix]
0
500
1000
1500
2000
89.1
114.5
63.6
38.2
12.7

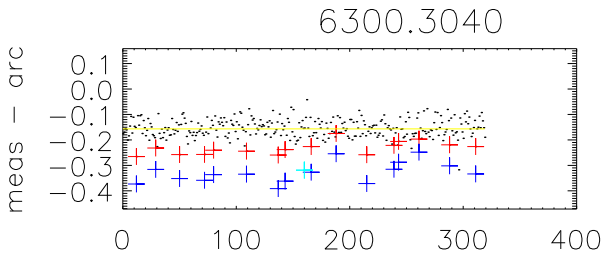

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-r1-00051142.fi
150
100
50
0
Brightness [electrons/pix]
Error bars denote full range
Min value = 17.121
Max value = 107.140
6000
7000
8000
9000
λ [A]
Wed Mar 19 13:21:58 2008

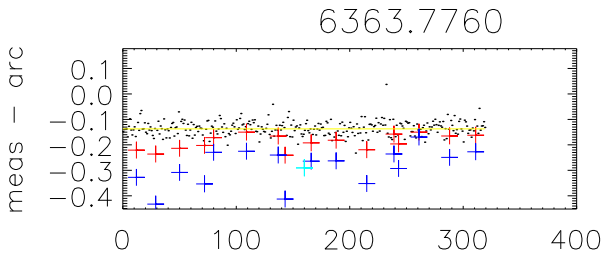

PLATE=2459 MJD=54544 Scattered Light on sdR-r1-00051142.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
25.5
18.2
10.9
7.81
32.7

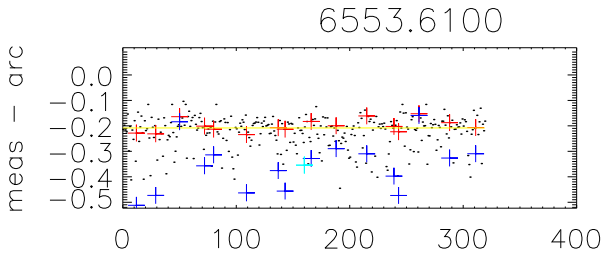

PLATE=2459 MJD=54544 Scattered Light on sdR-r1-00051142.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 15.140
Max value = 30.189
Wed Mar 19 13:24:16 2008

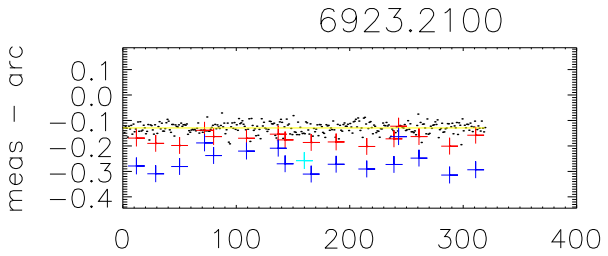

PLATE=2459 MJD=54544 Extraction chi^2 for sdR−r1−00051142.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

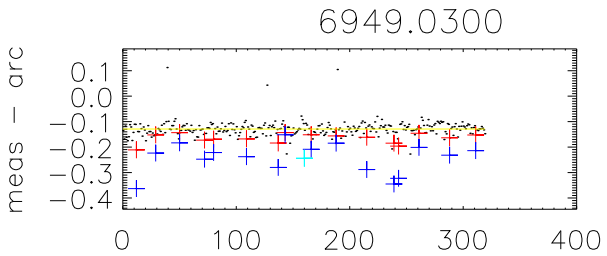

6300.3040
off: −0.32
sig: 0.007
6363.7760
off: −0.29
sig: 0.016
6553.6100
off: −0.35
sig: 0.026
6923.2100
off: −0.26
sig: 0.015
6949.0300
off: −0.24
sig: 0.014
7571.7500
off: −0.21
sig: 0.014
7794.1200
off: −0.33
sig: 0.006
7821.5100
off: −0.29
sig: 0.005
8399.1600
off: −0.26
sig: 0.004
8430.1700
off: −0.27
sig: 0.004
8885.8300
off: −0.27
sig: 0.004
8919.6100
off: −0.29
sig: 0.004

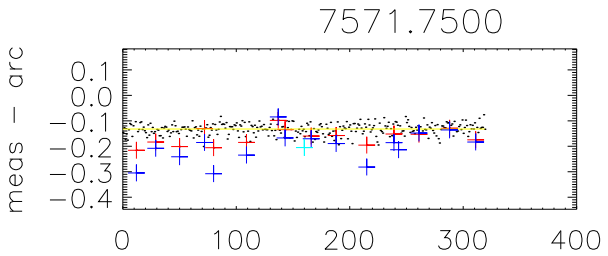

6300.3040
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

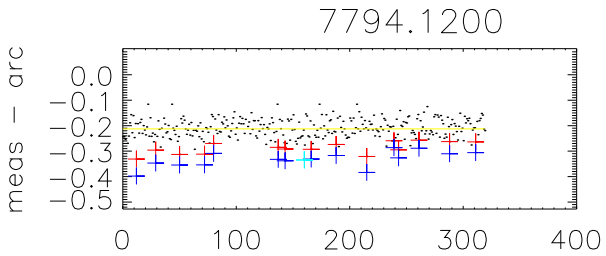

6363.7760
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

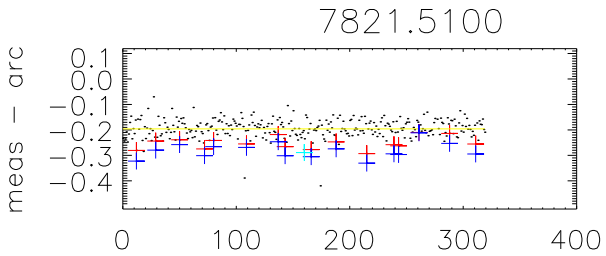

6553.6100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

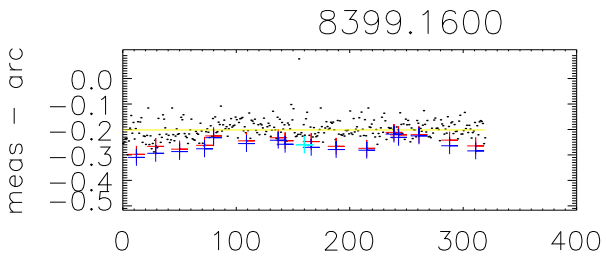

6923.2100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

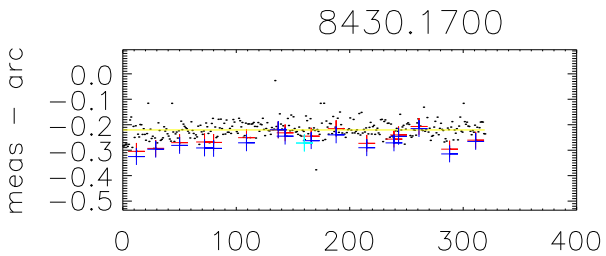

6949.0300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

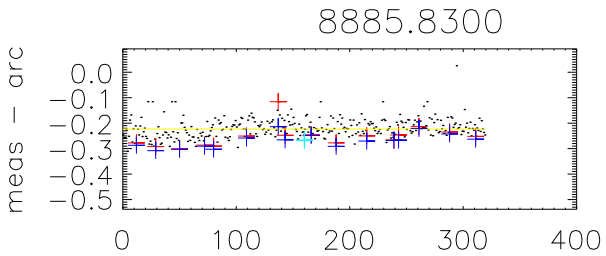

7571.7500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

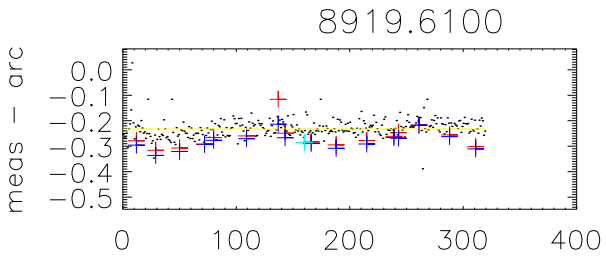

7794.1200
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

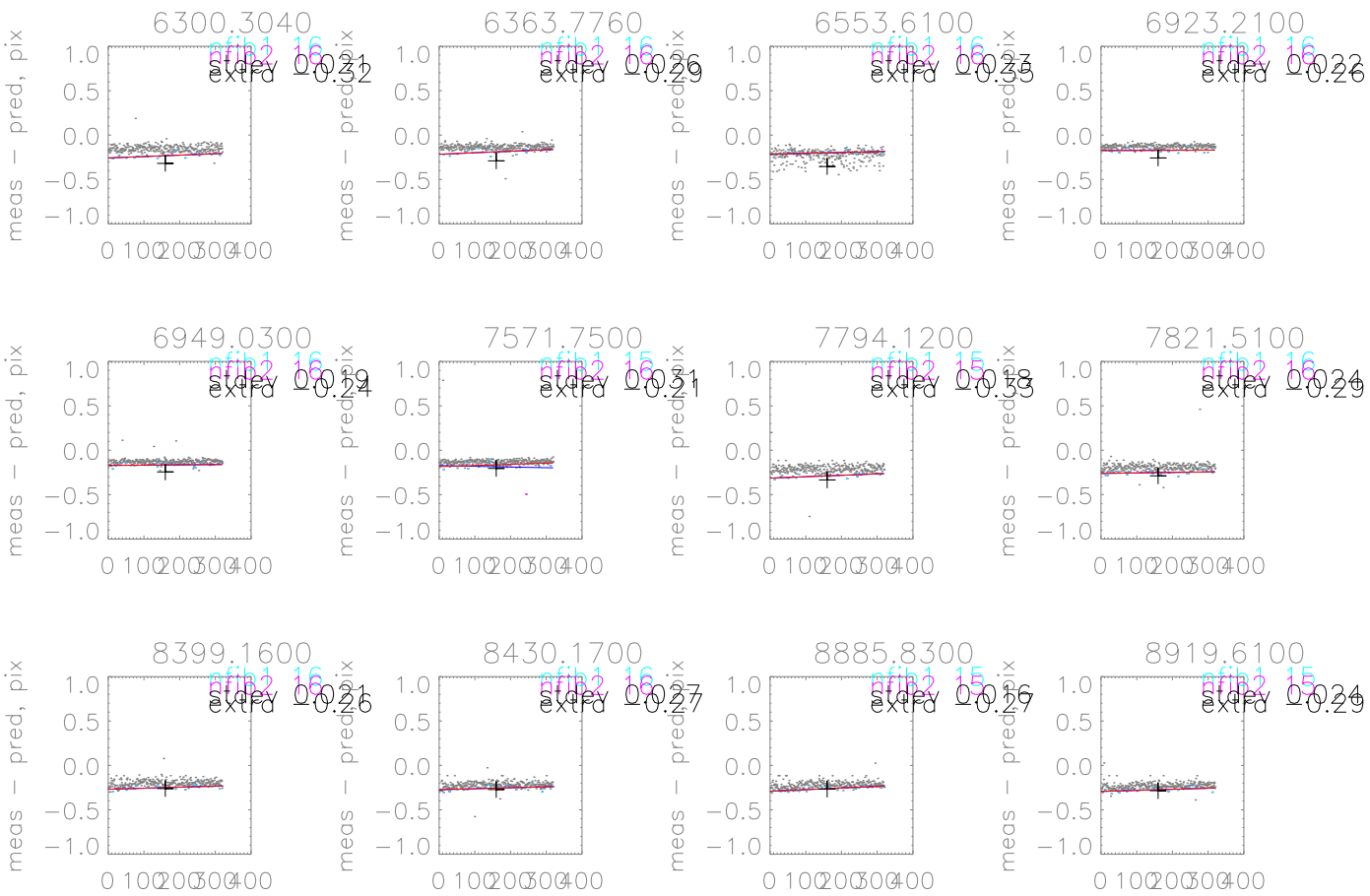

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

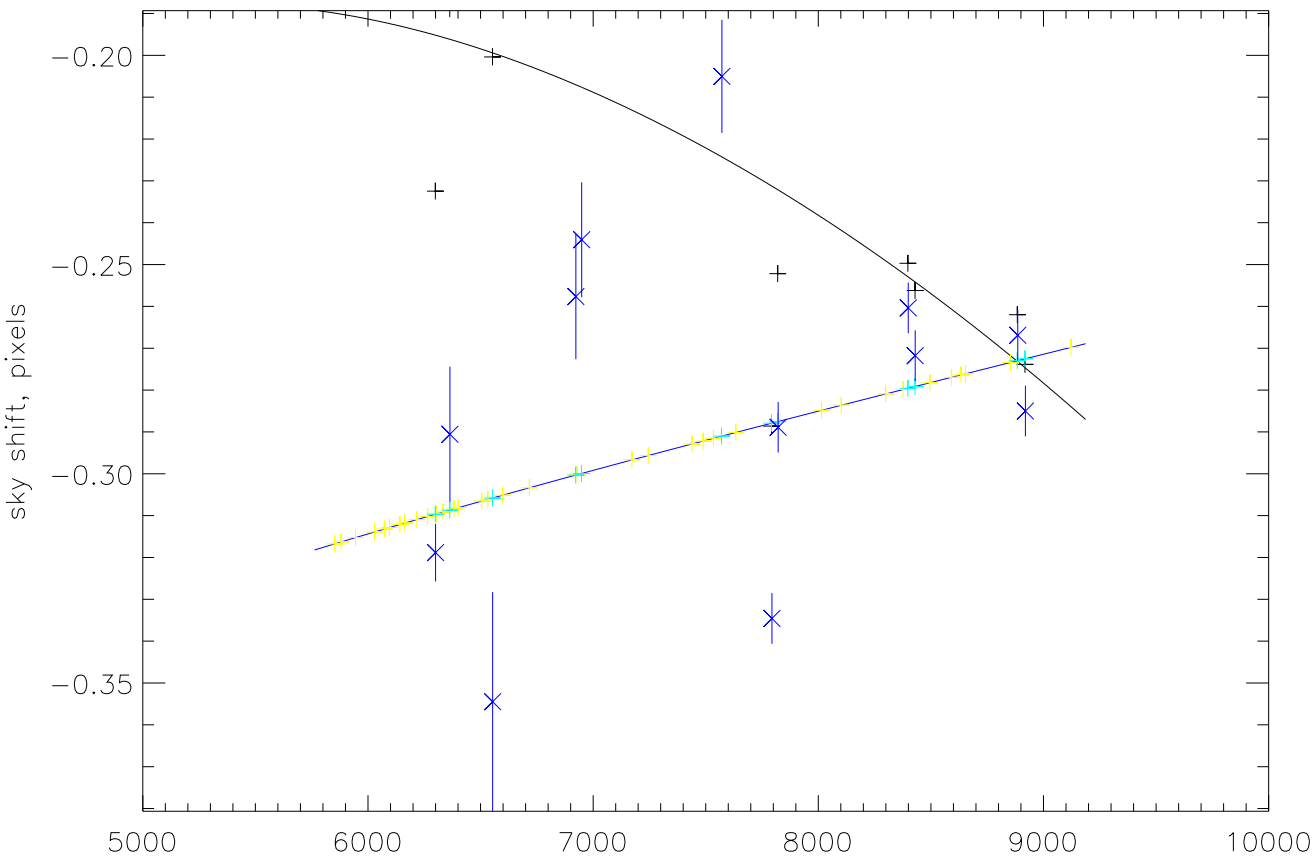

8399.1600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400


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

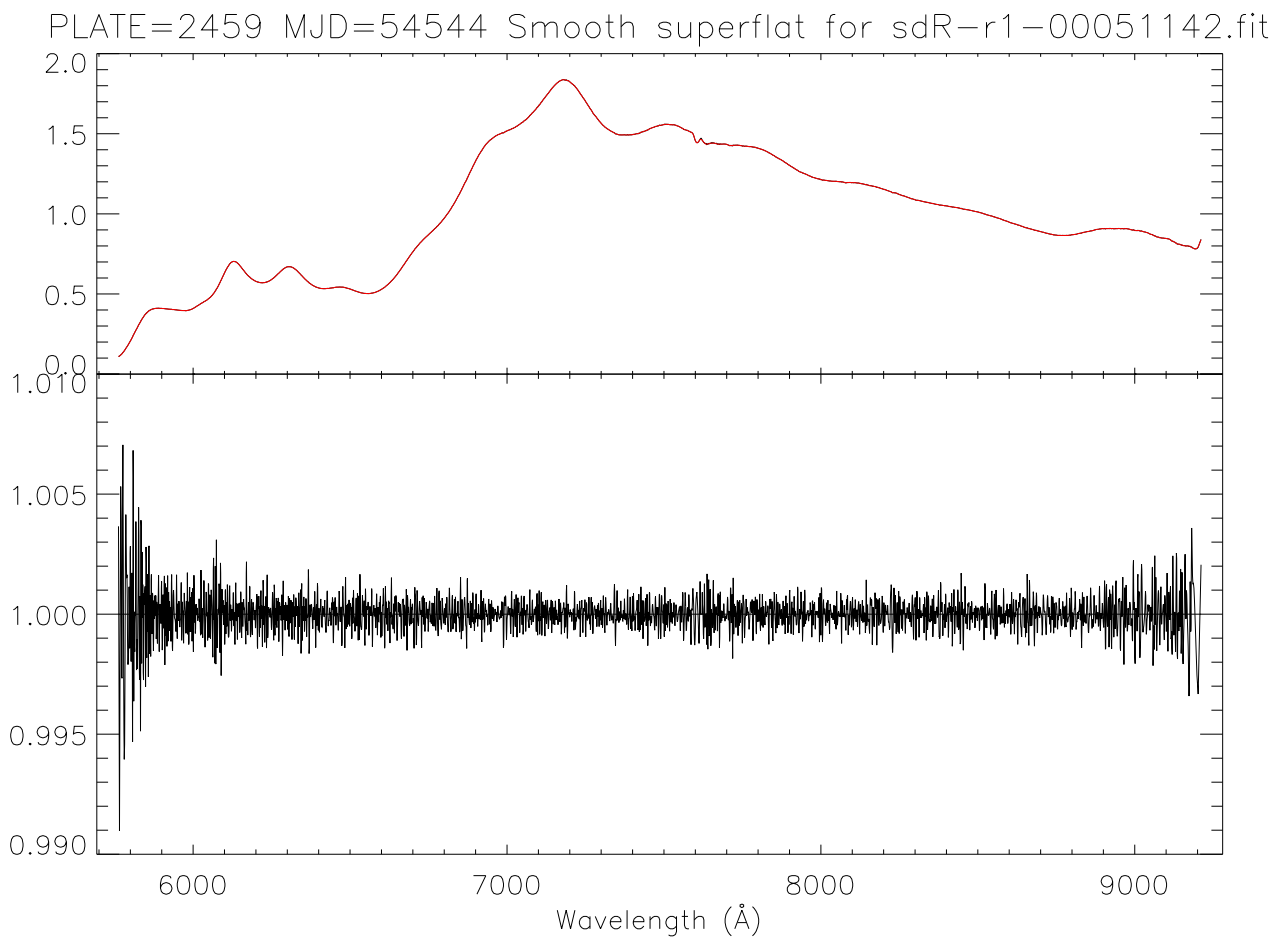

8885.8300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

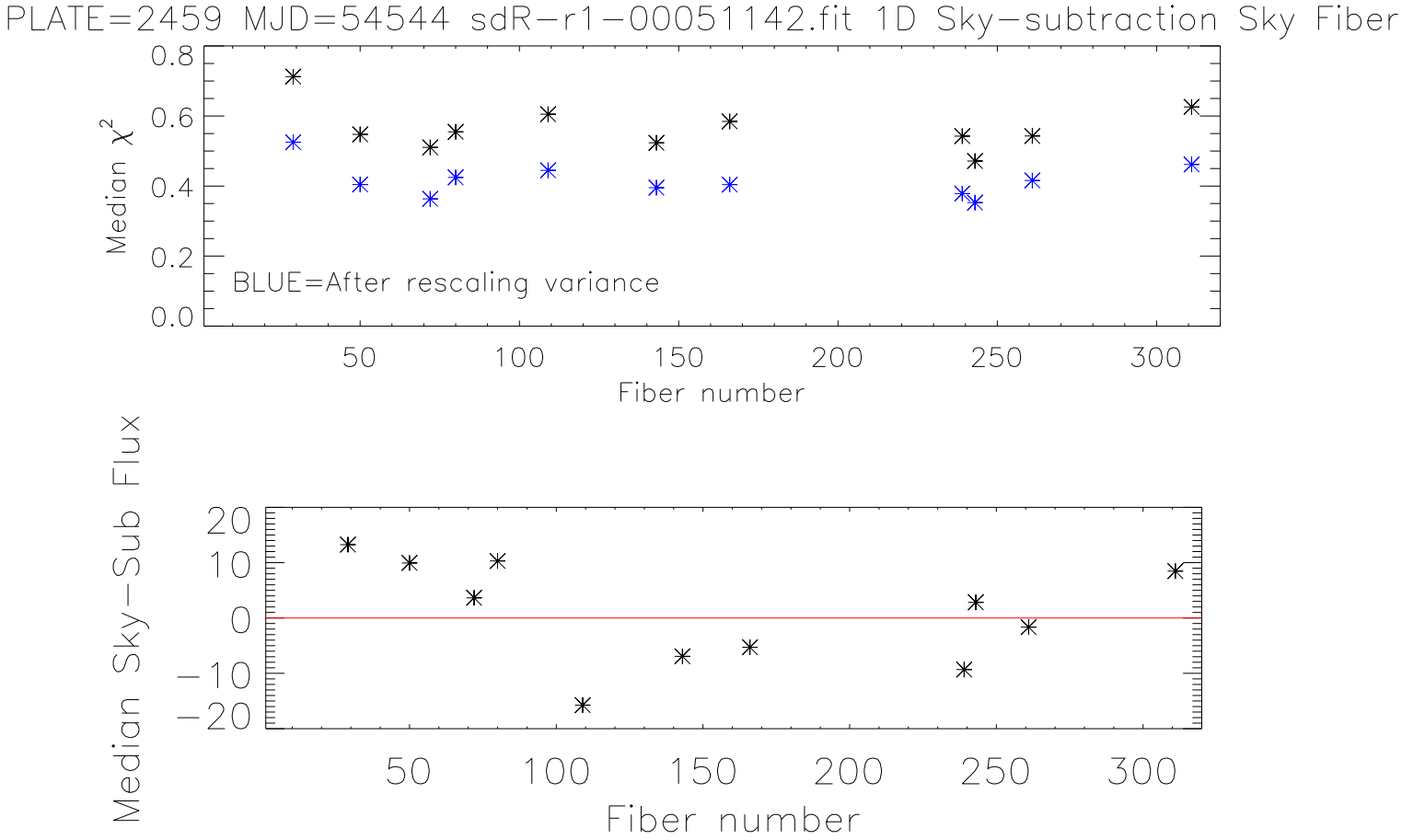

8919.6100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

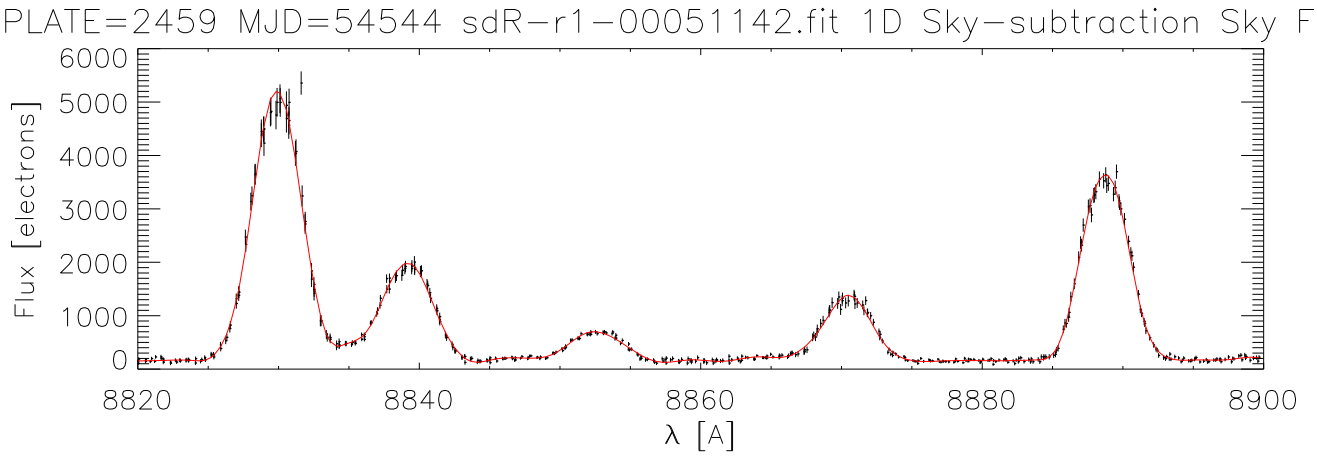

6300.3040
6363.7760
6553.6100
6923.2100
6949.0300
7571.7500
7794.1200
7821.5100
8399.1600
8430.1700
8885.8300
8919.6100
meas − pred, pix
mfib1 16
mfib2 16
mfib1 15
mfib2 15
stdev 0.021
extra 0.32
stdev 0.026
extra 0.29
stdev 0.023
extra 0.35
stdev 0.022
extra 0.26
stdev 0.019
extra 0.24
stdev 0.031
extra 0.21
stdev 0.018
extra 0.33
stdev 0.024
extra 0.29
stdev 0.021
extra 0.26
stdev 0.027
extra 0.27
stdev 0.016
extra 0.27
stdev 0.024
extra 0.29
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

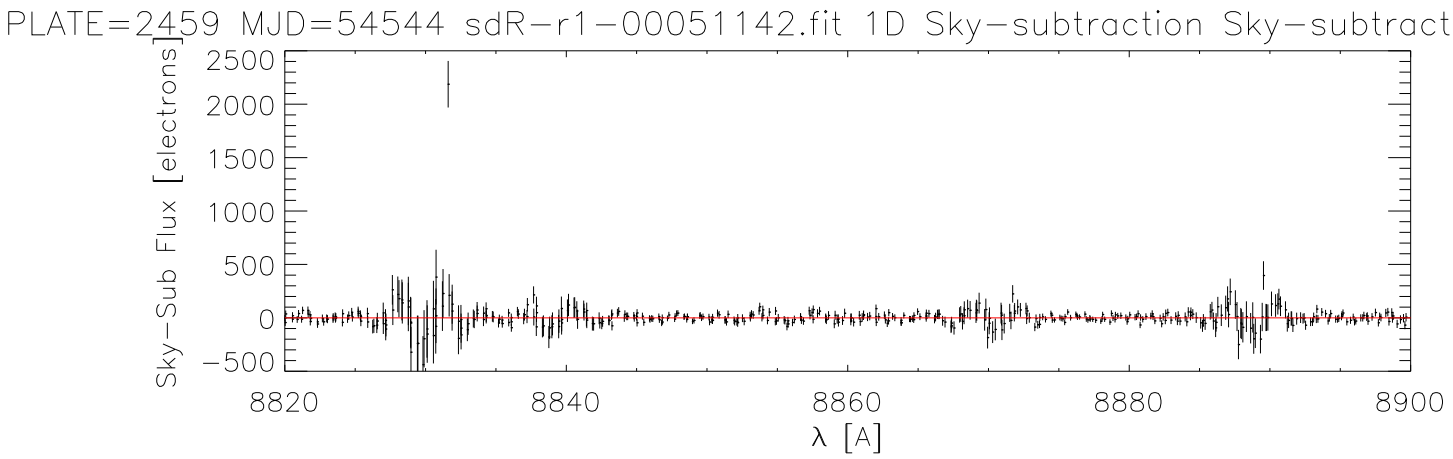

−0.20
−0.25
−0.30
−0.35
sky shift, pixels
5000
6000
7000
8000
9000
10000

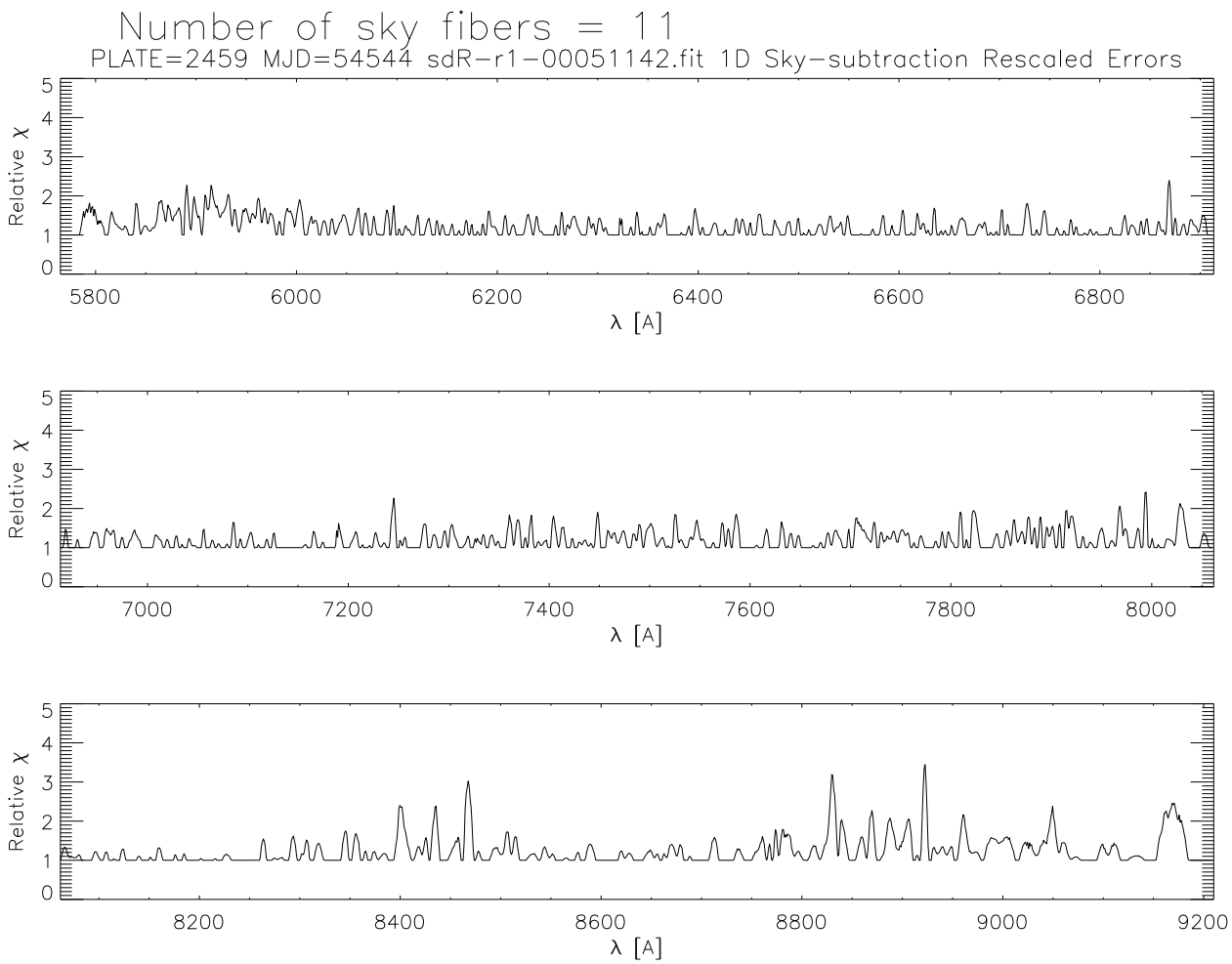
es= 0.0000

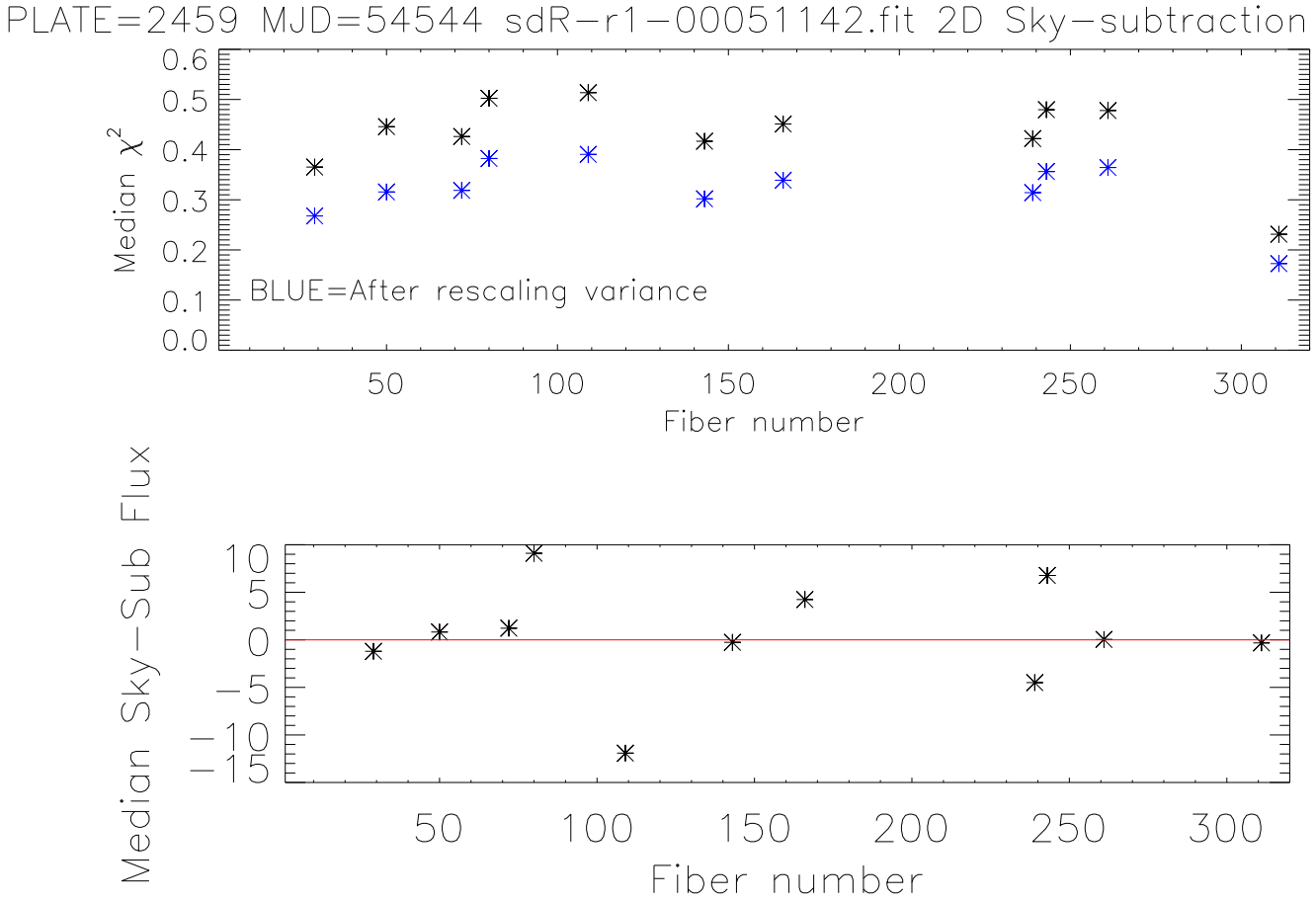

PLATE=2459 MJD=54544 Smooth superflat for sdR-r1-00051142.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

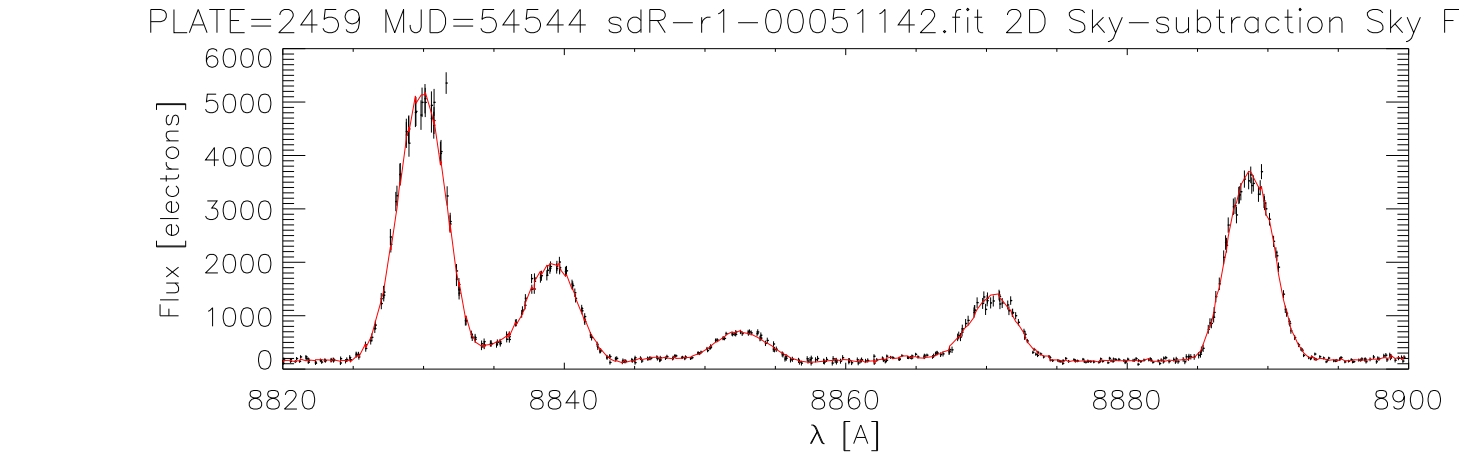

PLATE=2459 MJD=54544 sdR-r1-00051142.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
10
0
−10
−20
50
100
150
200
250
300
Fiber number

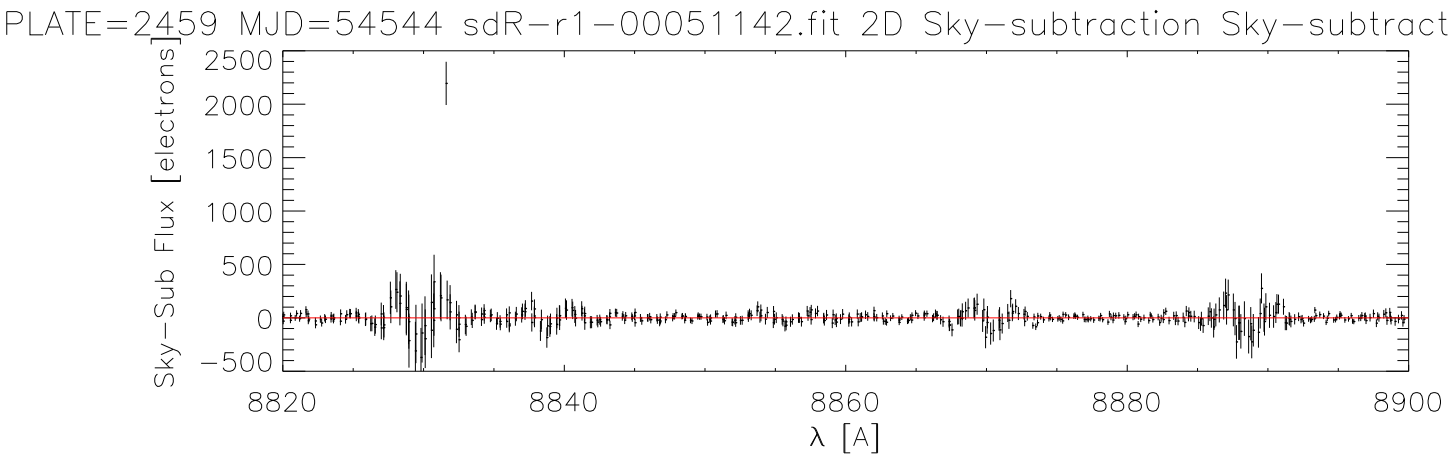

PLATE=2459 MJD=54544 sdR-r1-00051142.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

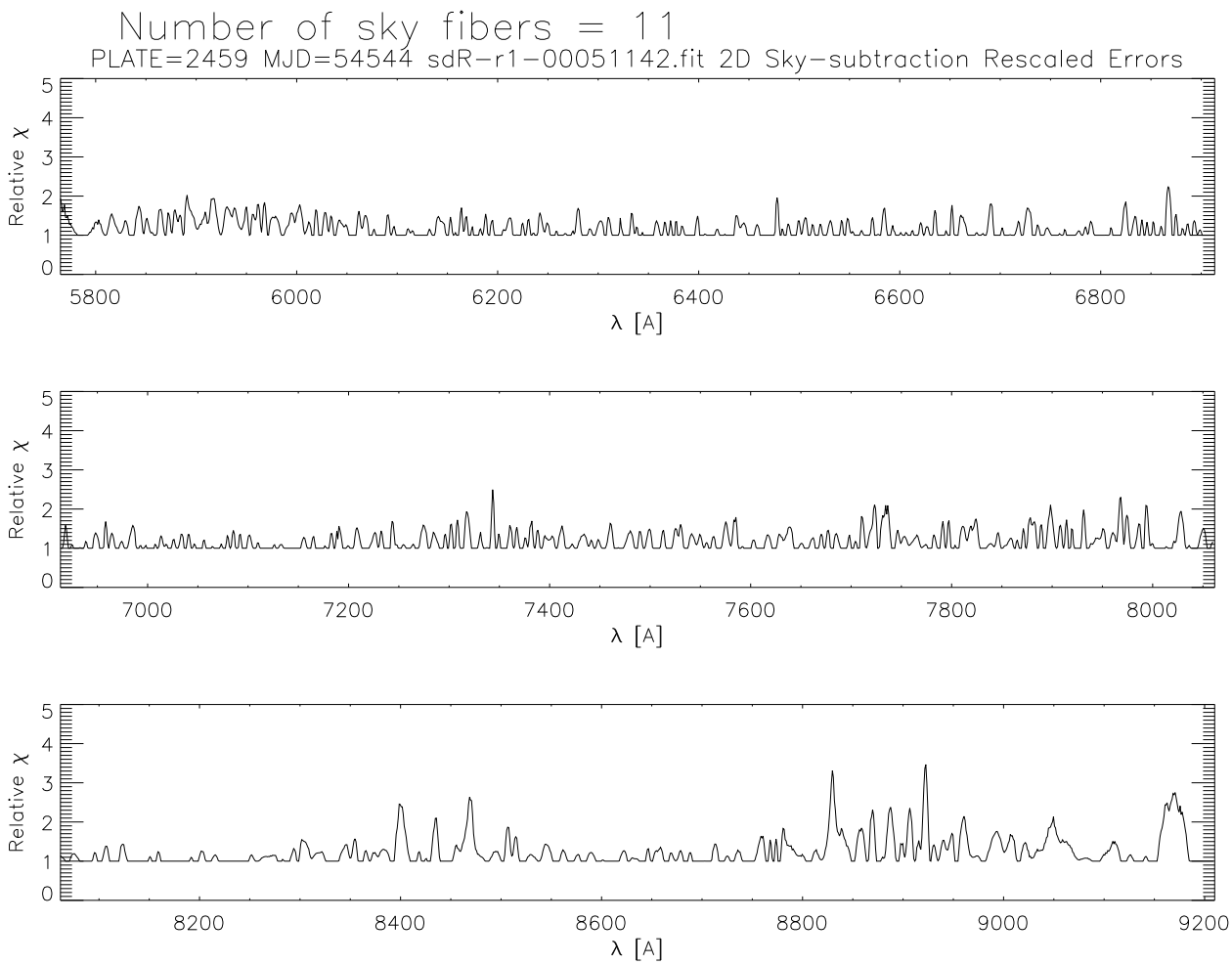

PLATE=2459 MJD=54544 sdR-r1-00051142.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2500
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

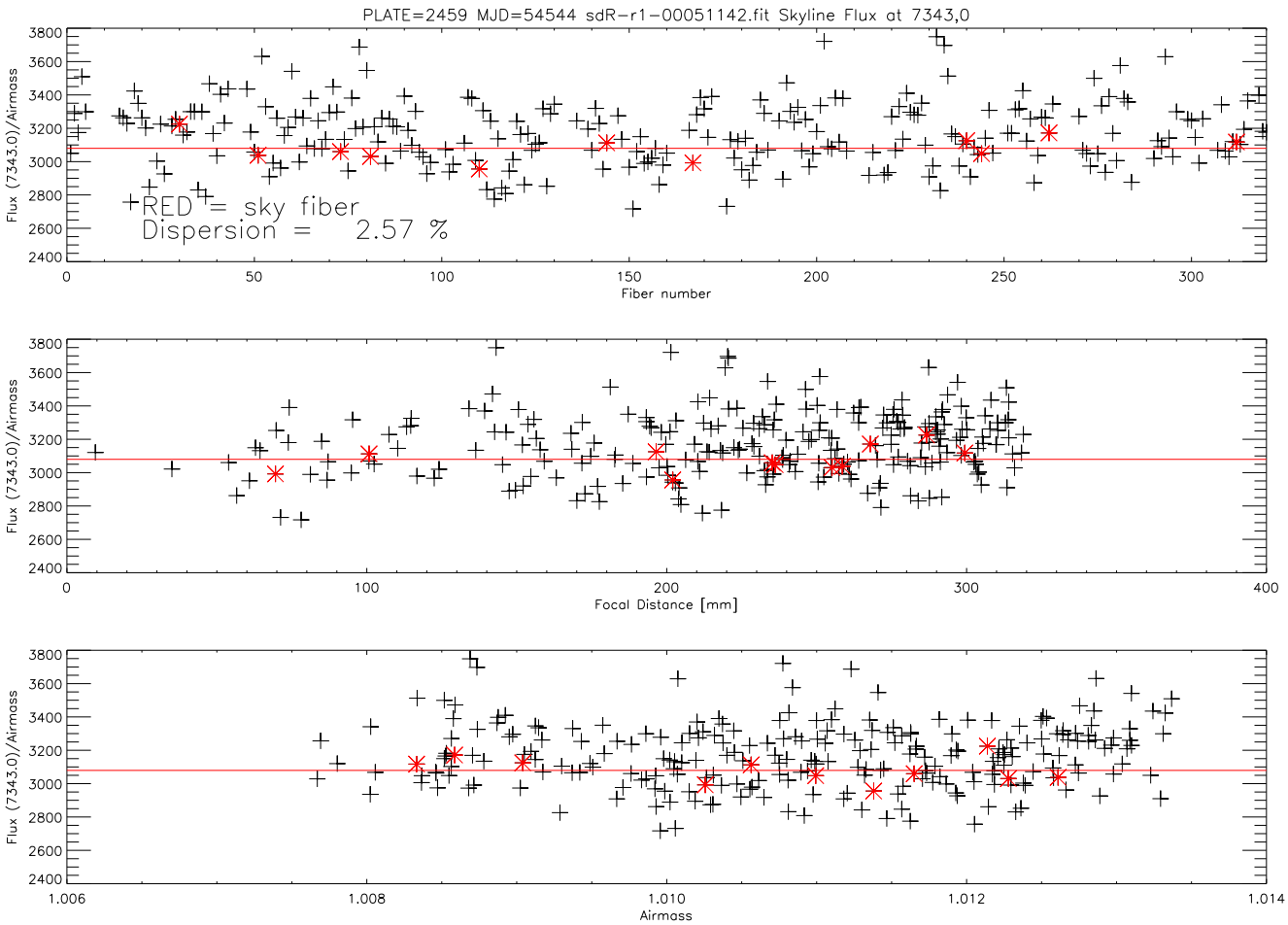

Number of sky fibers = 11
PLATE=2459 MJD=54544 sdR-r1-00051142.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

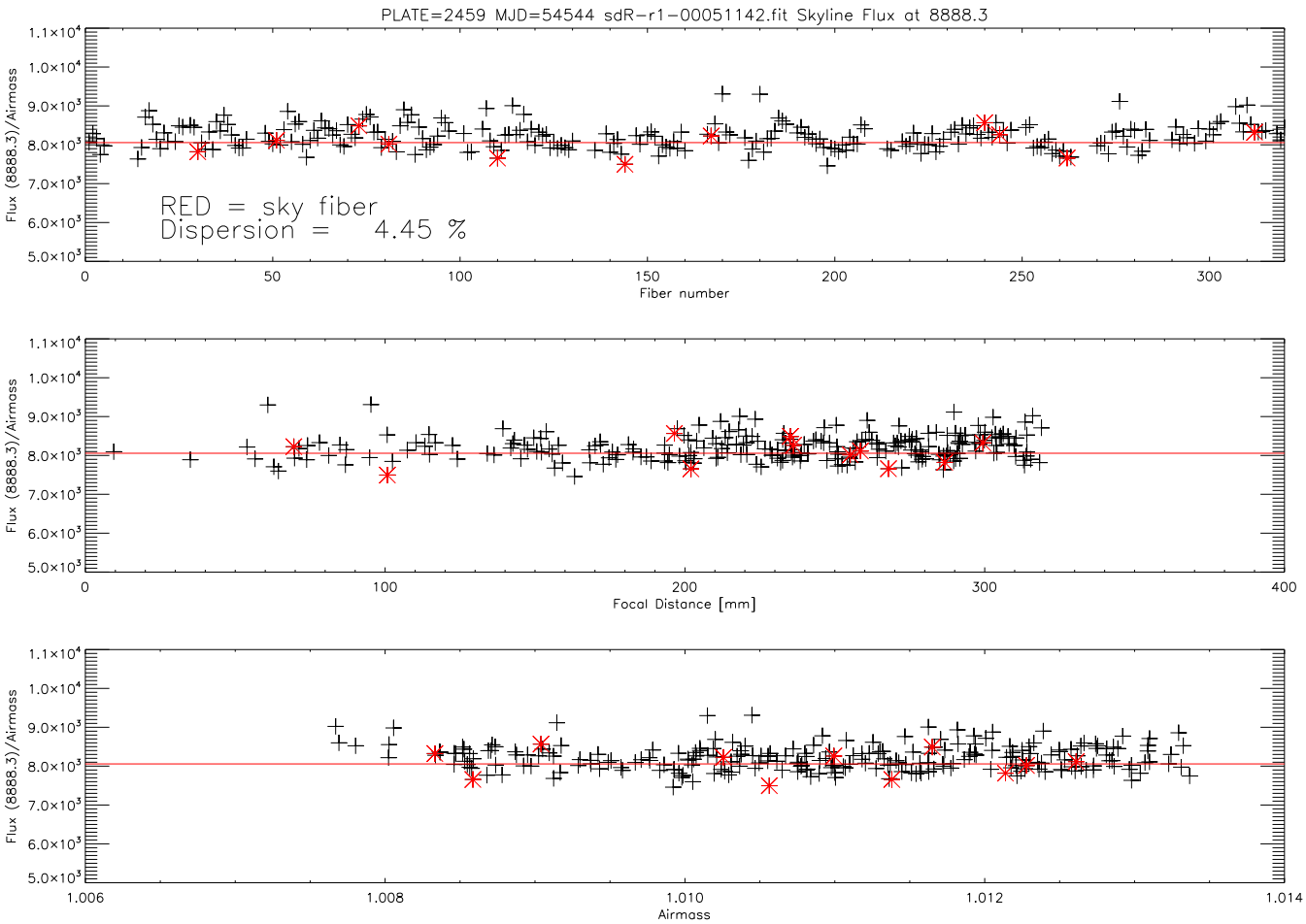

PLATE=2459 MJD=54544 sdR-r1-00051142.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

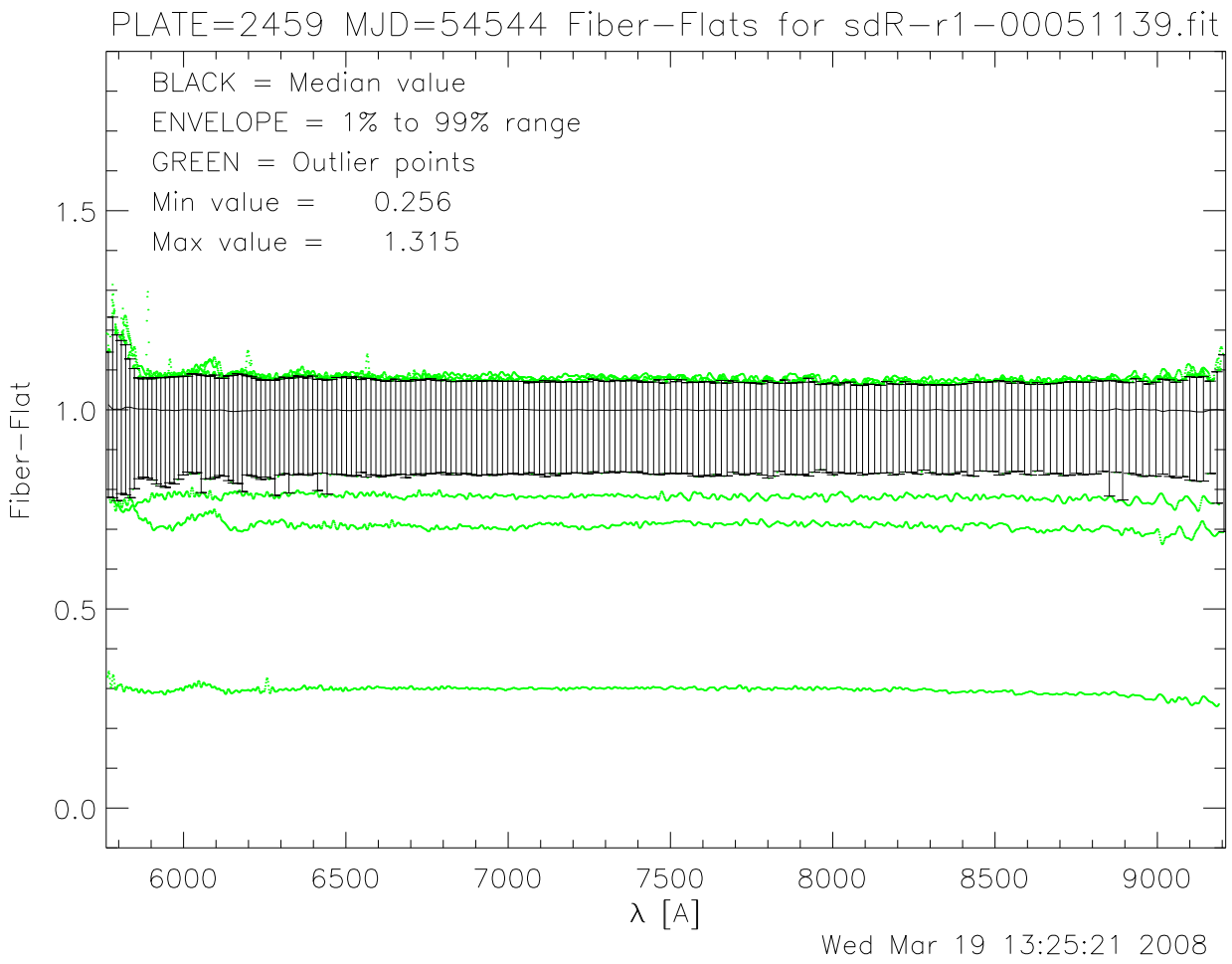

PLATE=2459 MJD=54544 sdR-r1-00051142.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

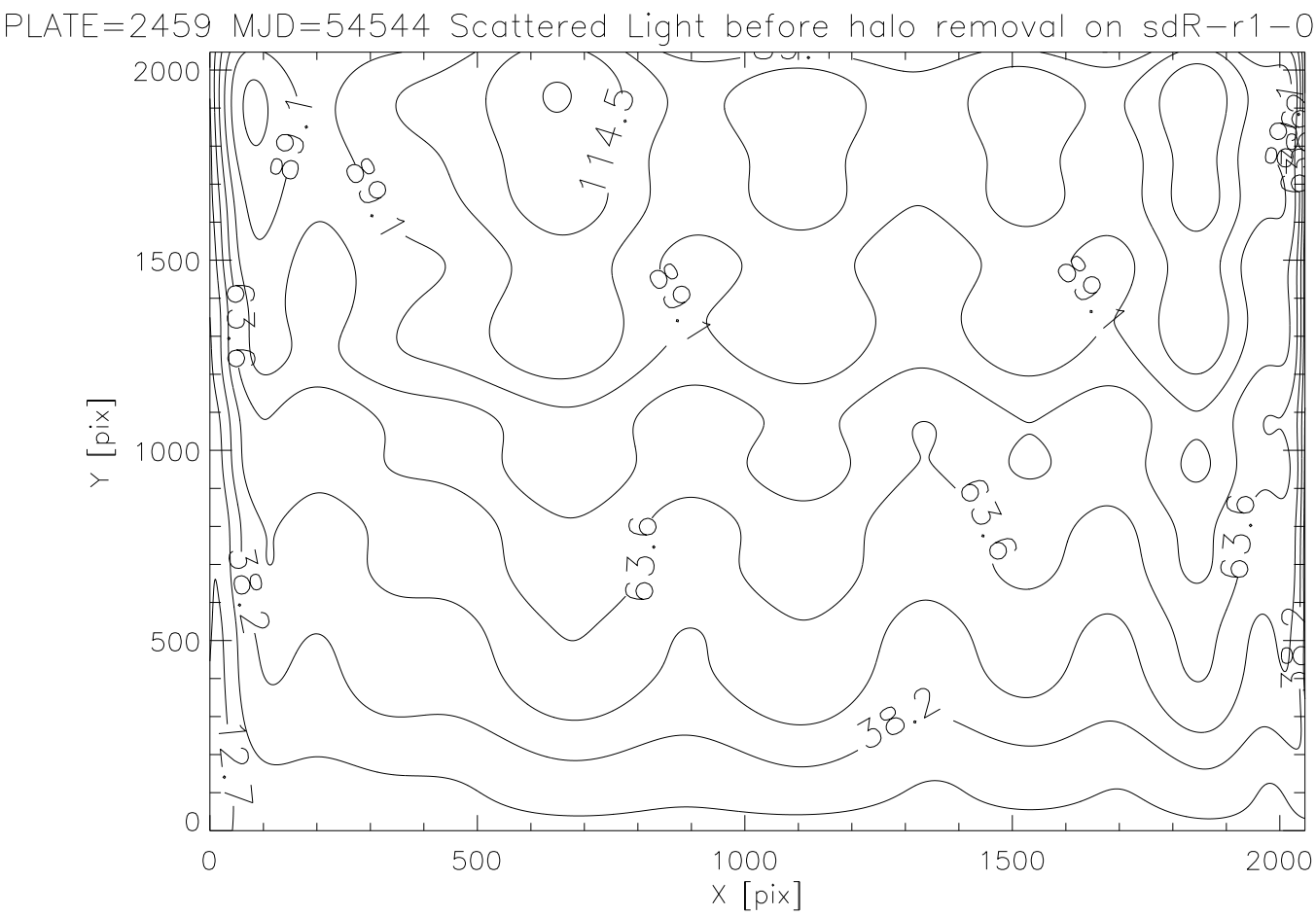

PLATE=2459 MJD=54544 sdR-r1-00051142.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2500
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

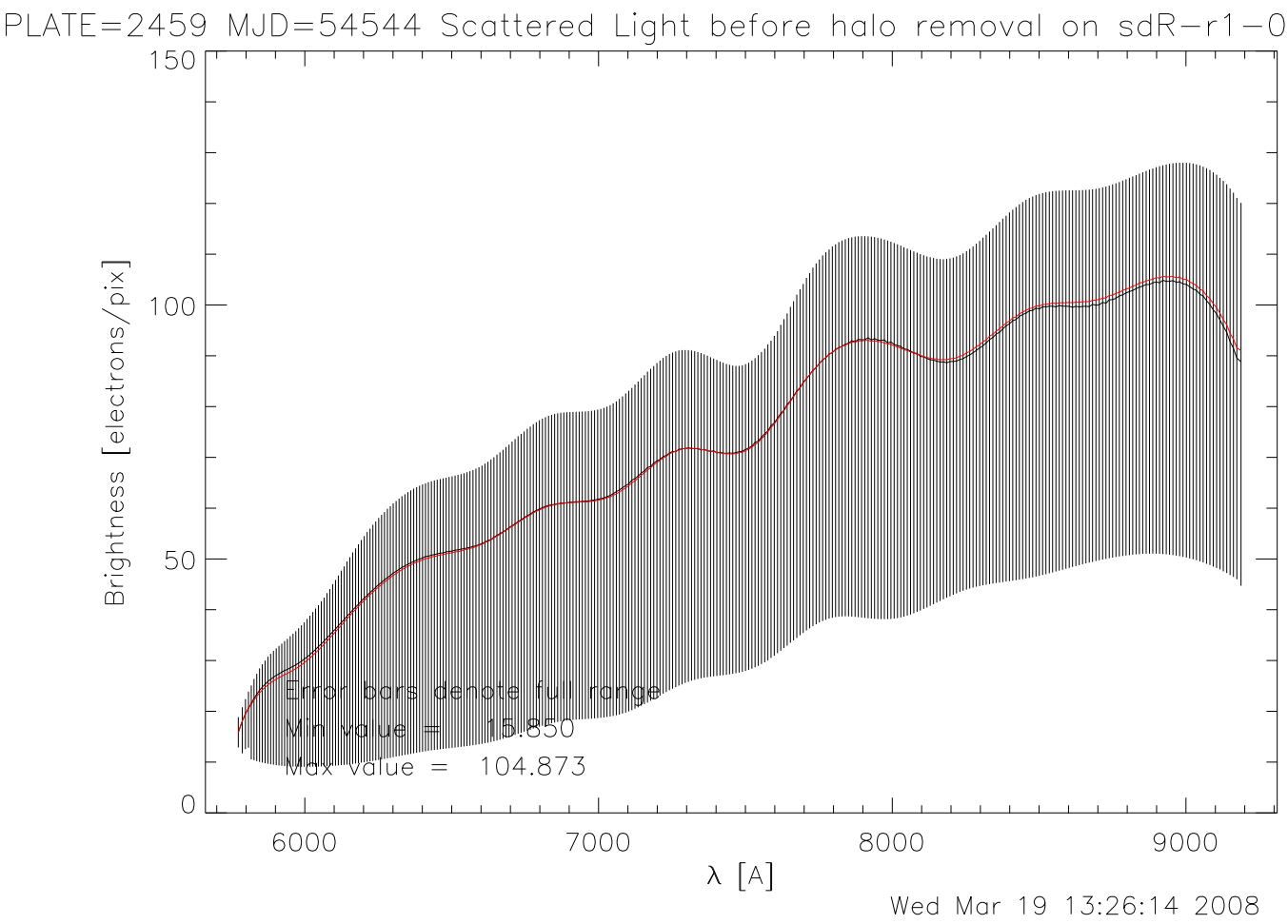

Number of sky fibers = 11
PLATE=2459 MJD=54544 sdR-r1-00051142.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

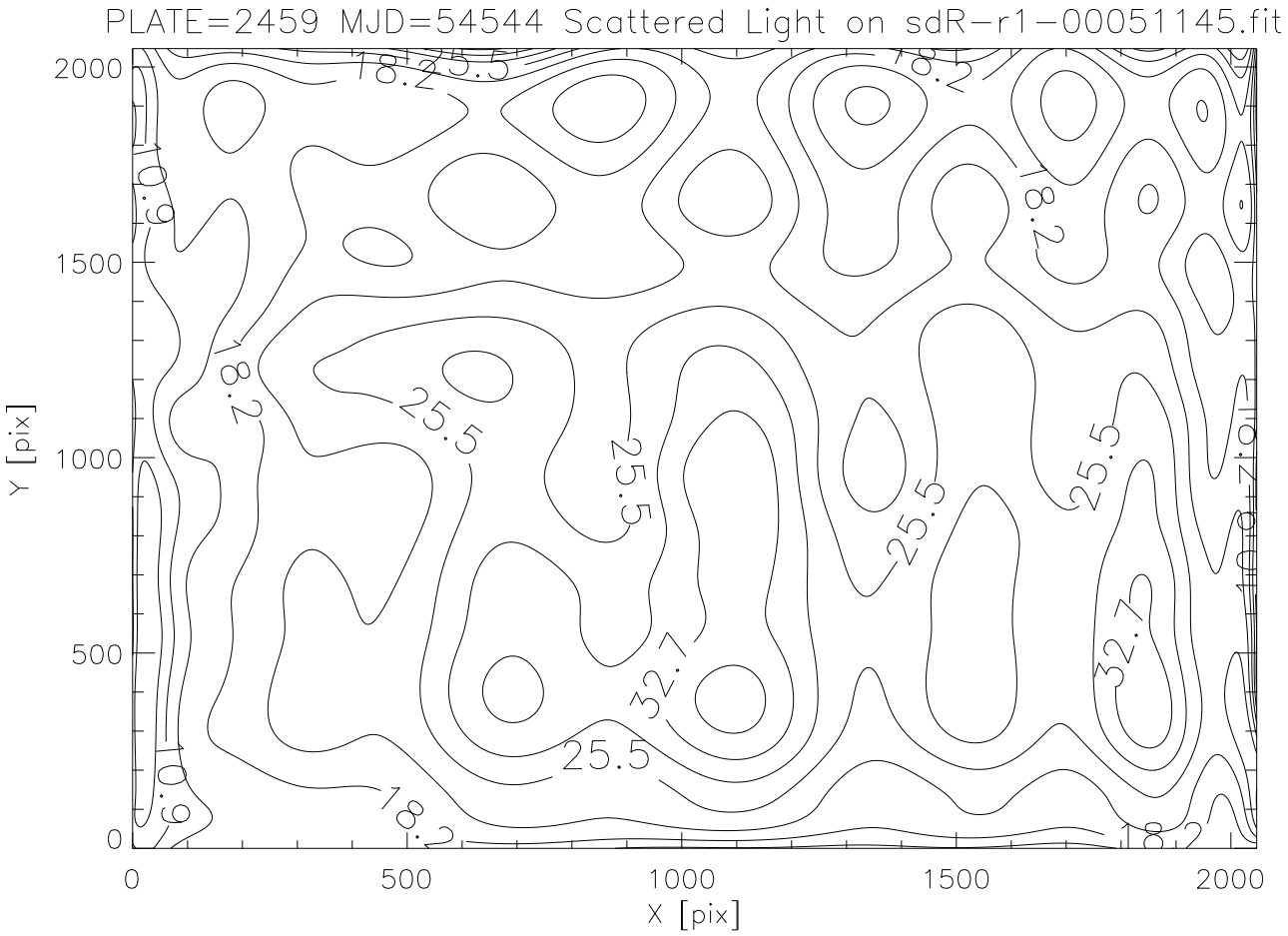

PLATE=2459 MJD=54544 sdR-r1-00051142.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.57 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

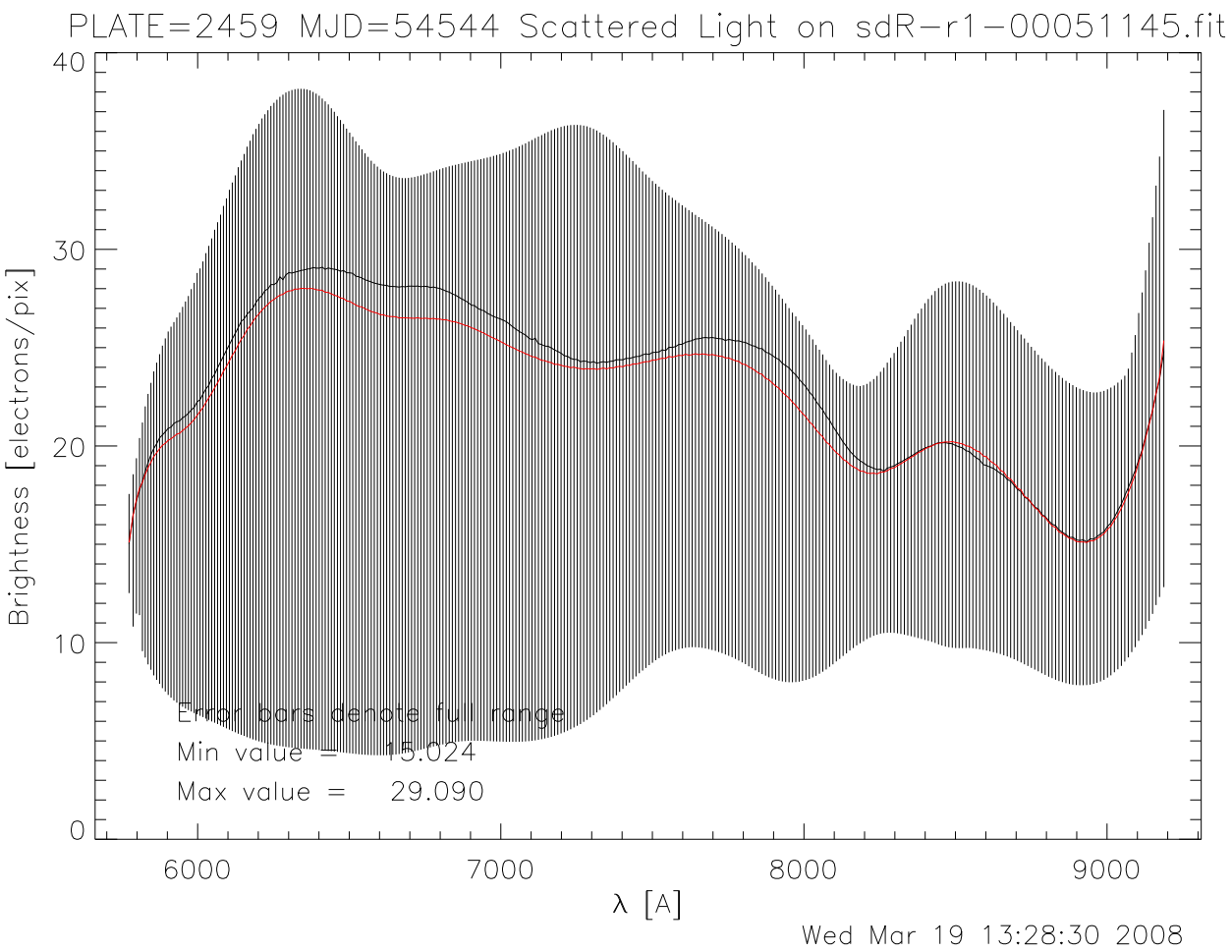

PLATE=2459 MJD=54544 sdR-r1-00051142.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 4.45 %
Fiber number
Focal Distance [mm]
Airmass

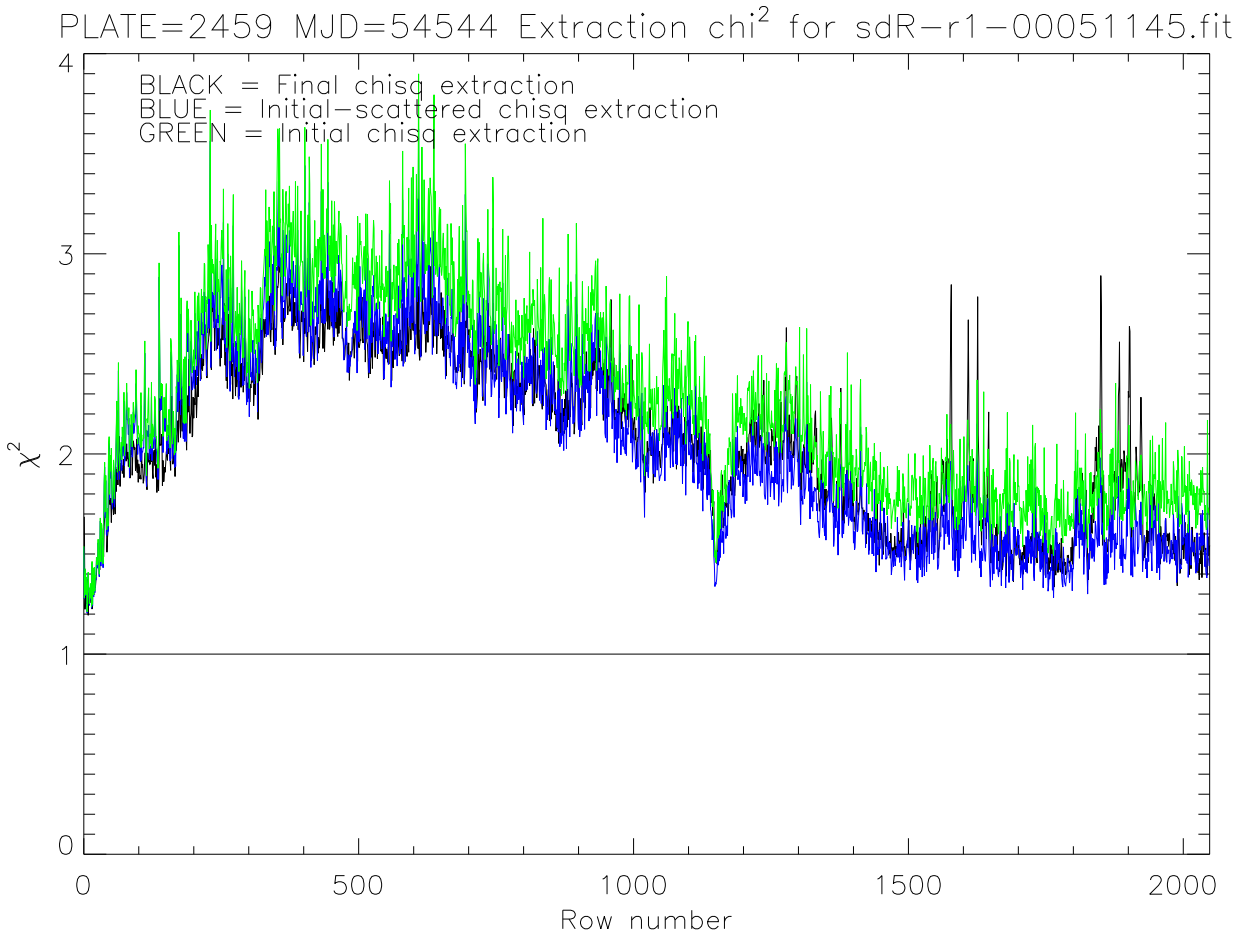

PLATE=2459 MJD=54544 Fiber−Flats for sdR−r1−00051139.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.256
Max value = 1.315
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 19 13:25:21 2008

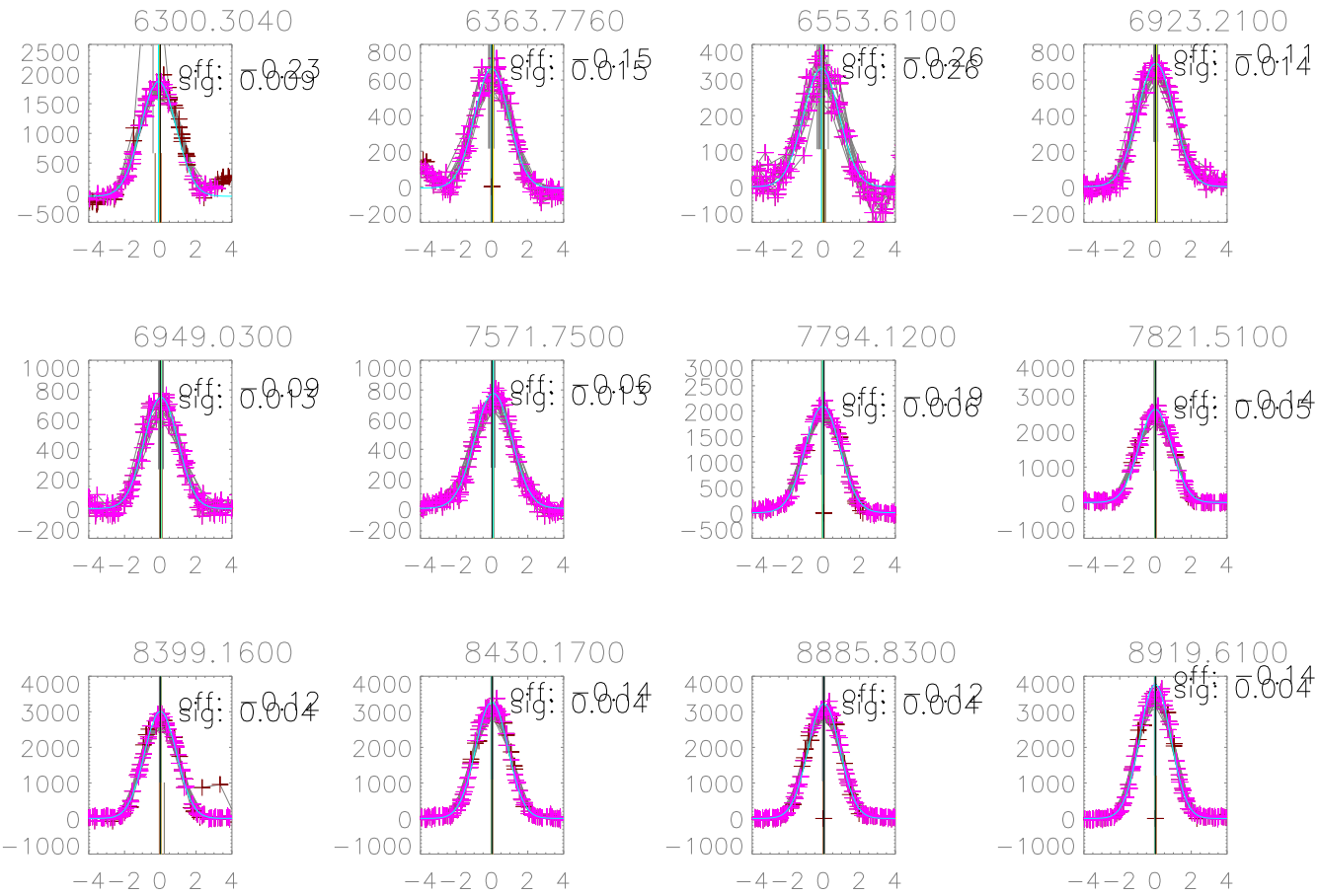

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR−r1−00051145.fi
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
89.1
114.5
89.1
89.1
89.1
63.6
63.6
63.6
63.6
38.2
38.2
38.2
12.7

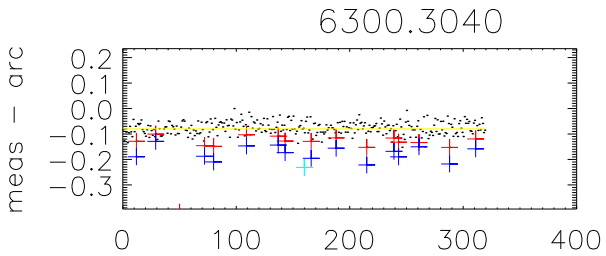

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-r1-00051145.fi
150
100
50
0
Brightness [electrons/pix]
Error bars denote full range
Min value = 15.850
Max value = 104.873
6000
7000
8000
9000
λ [A]
Wed Mar 19 13:26:14 2008

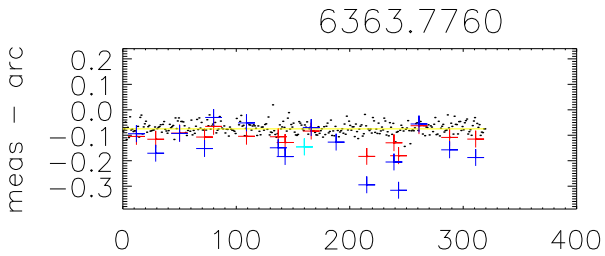

PLATE=2459 MJD=54544 Scattered Light on sdR-r1-00051145.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
18.2
25.5
32.7
10.9

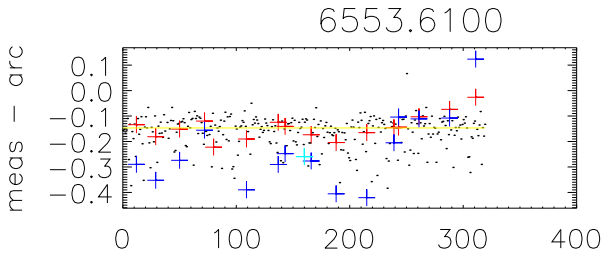

PLATE=2459 MJD=54544 Scattered Light on sdR-r1-00051145.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 15.024
Max value = 29.090
Wed Mar 19 13:28:30 2008

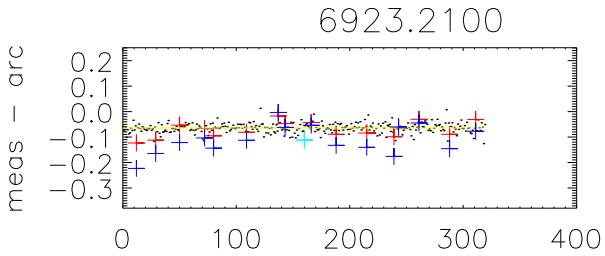

PLATE=2459 MJD=54544 Extraction chi^2 for sdR−r1−00051145.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

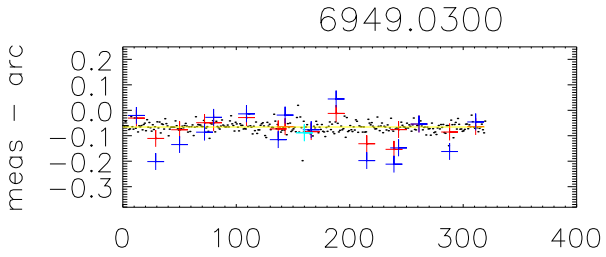

6300.3040
off: -0.23
sig: 0.009
6363.7760
off: -0.15
sig: 0.015
6553.6100
off: -0.26
sig: 0.026
6923.2100
off: -0.11
sig: 0.014
6949.0300
off: -0.09
sig: 0.013
7571.7500
off: -0.06
sig: 0.013
7794.1200
off: -0.19
sig: 0.006
7821.5100
off: -0.14
sig: 0.005
8399.1600
off: -0.12
sig: 0.004
8430.1700
off: -0.14
sig: 0.004
8885.8300
off: -0.12
sig: 0.004
8919.6100
off: -0.14
sig: 0.004

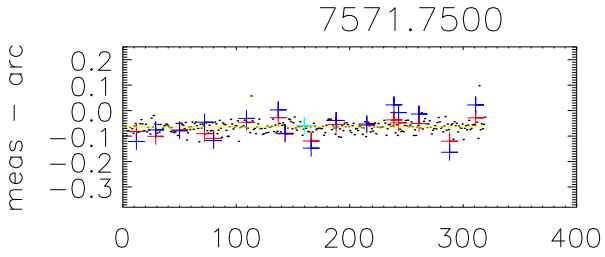

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

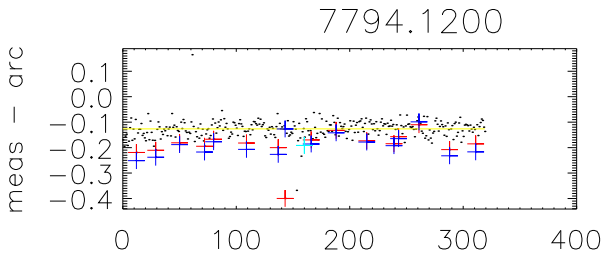

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

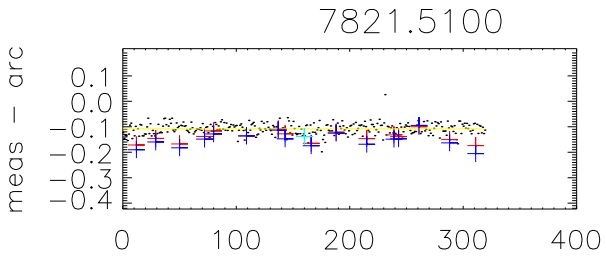

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

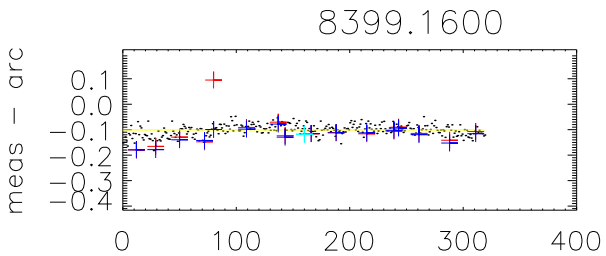

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

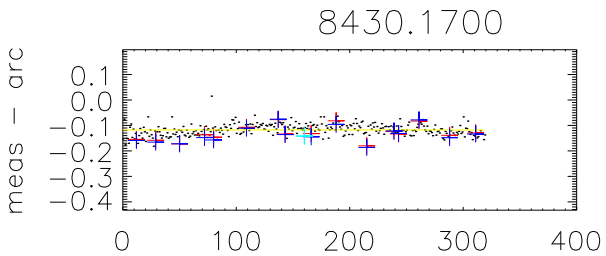

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

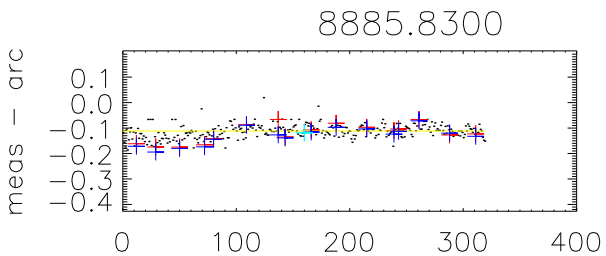

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

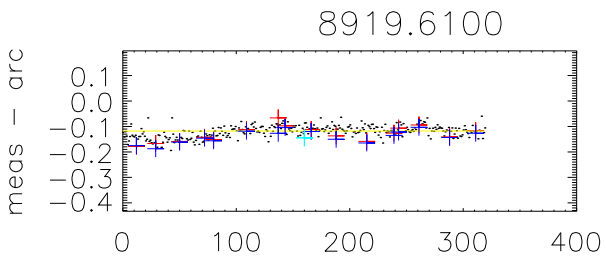

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

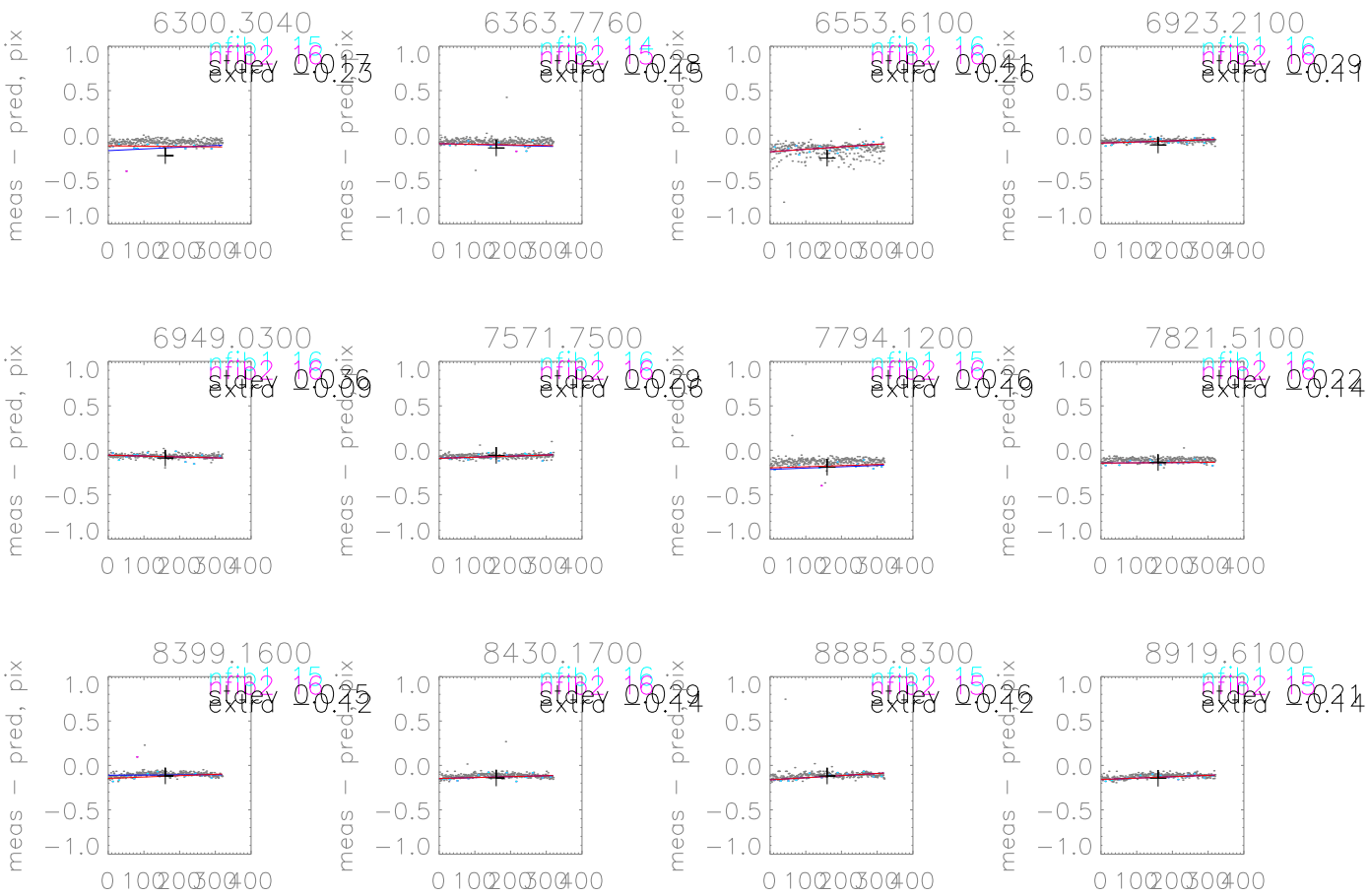

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

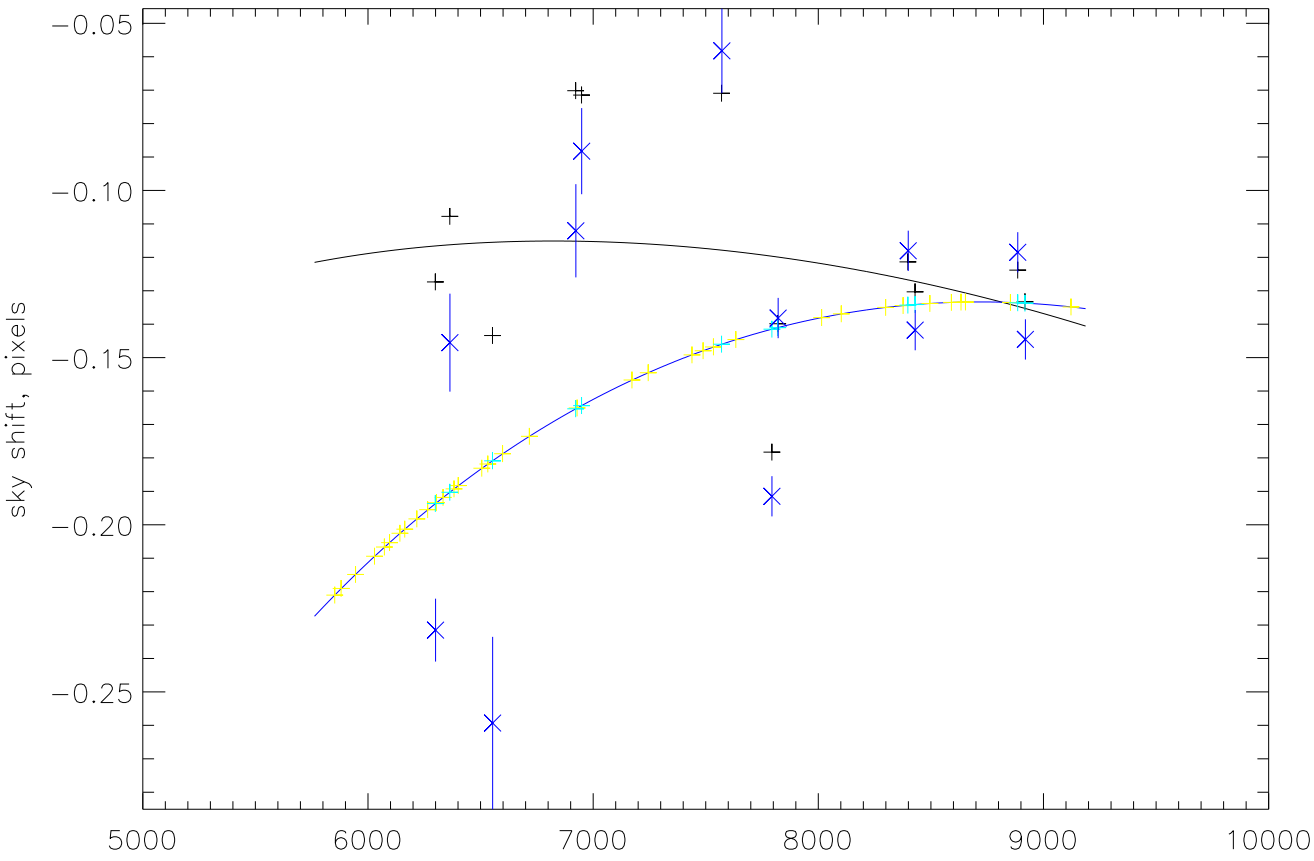

8399.1600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


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

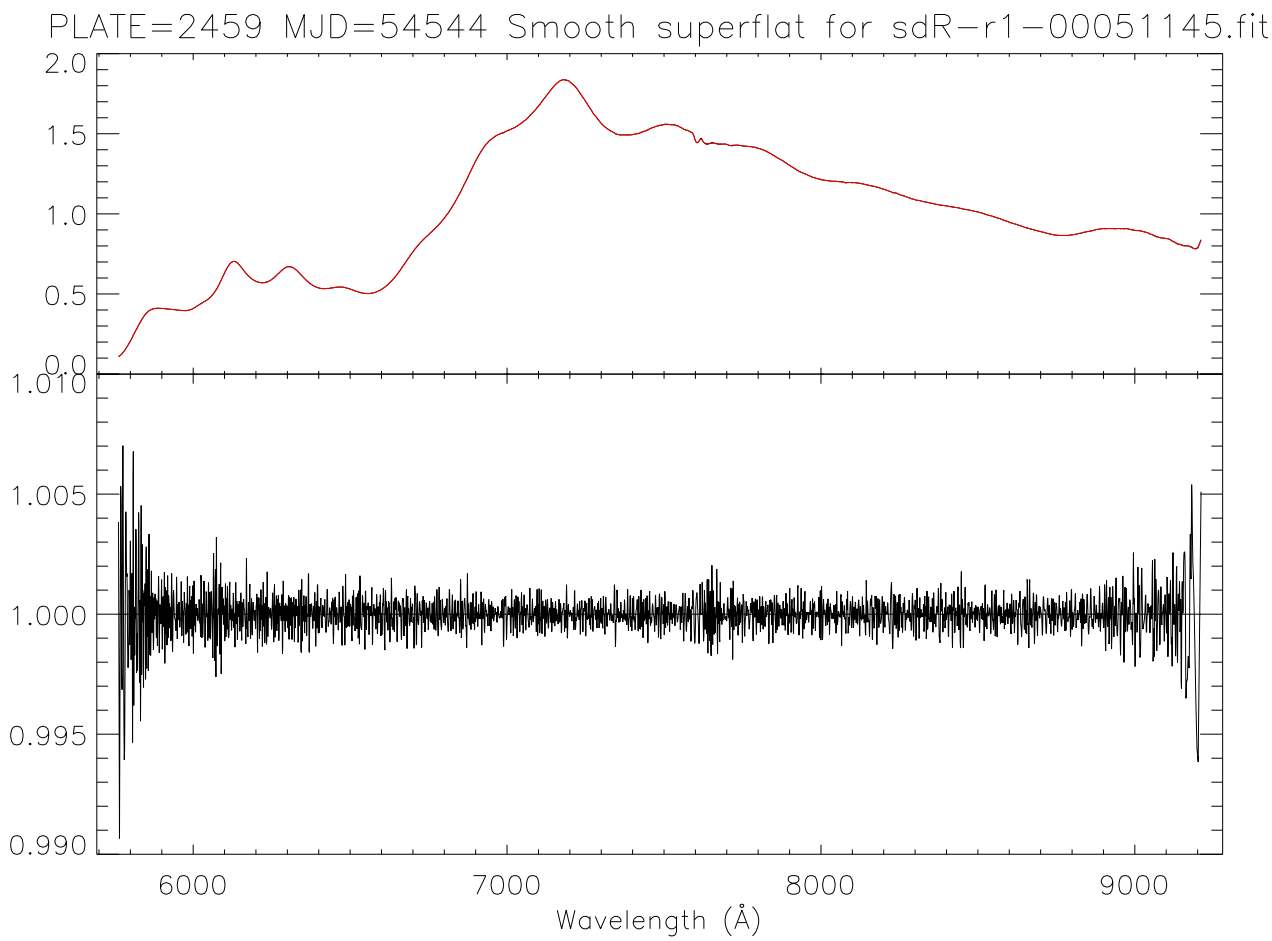

8885.8300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

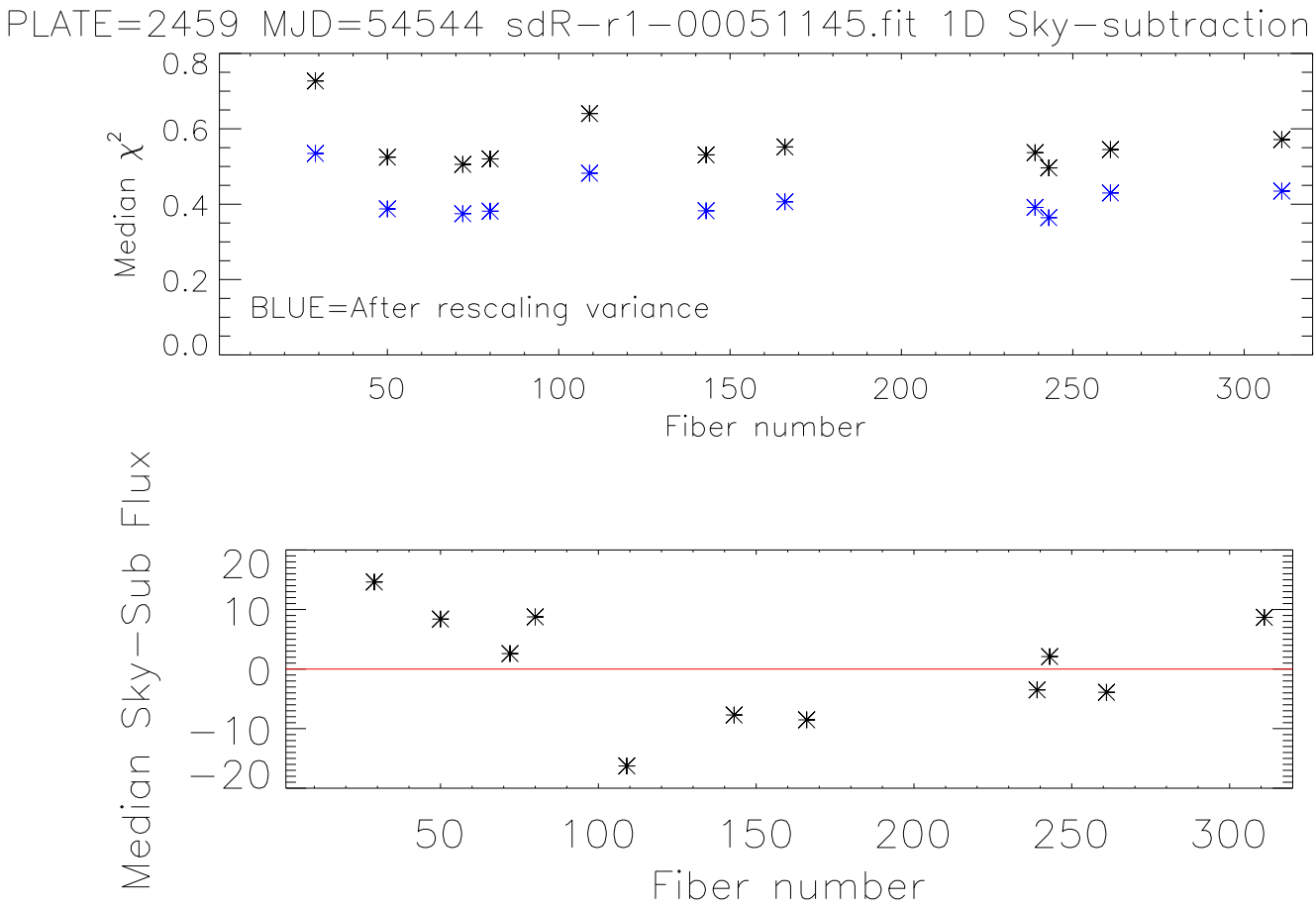

8919.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

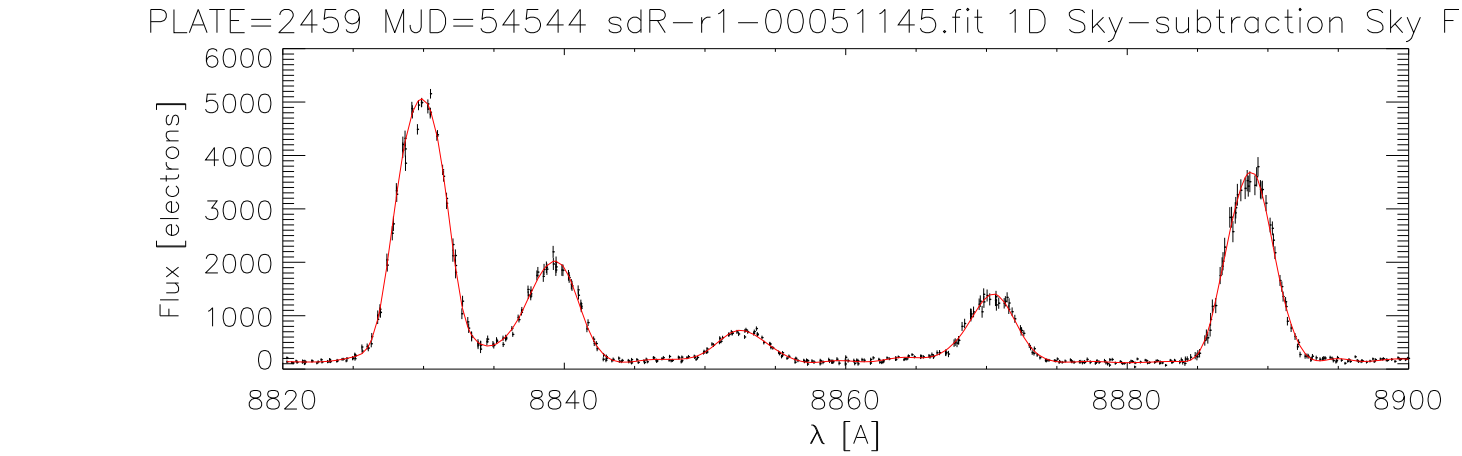

6300.3040
6363.7760
6553.6100
6923.2100
6949.0300
7571.7500
7794.1200
7821.5100
8399.1600
8430.1700
8885.8300
8919.6100
meas − pred, pix
mfhi1 15
mfhi2 16
stdev 0.027
extrd 0.23
stdev 0.028
extrd 0.45
stdev 0.041
extrd 0.26
stdev 0.029
extrd 0.41
stdev 0.036
extrd 0.09
stdev 0.029
extrd 0.08
stdev 0.026
extrd 0.49
stdev 0.022
extrd 0.44
stdev 0.025
extrd 0.42
stdev 0.029
extrd 0.44
stdev 0.026
extrd 0.42
stdev 0.021
extrd 0.44

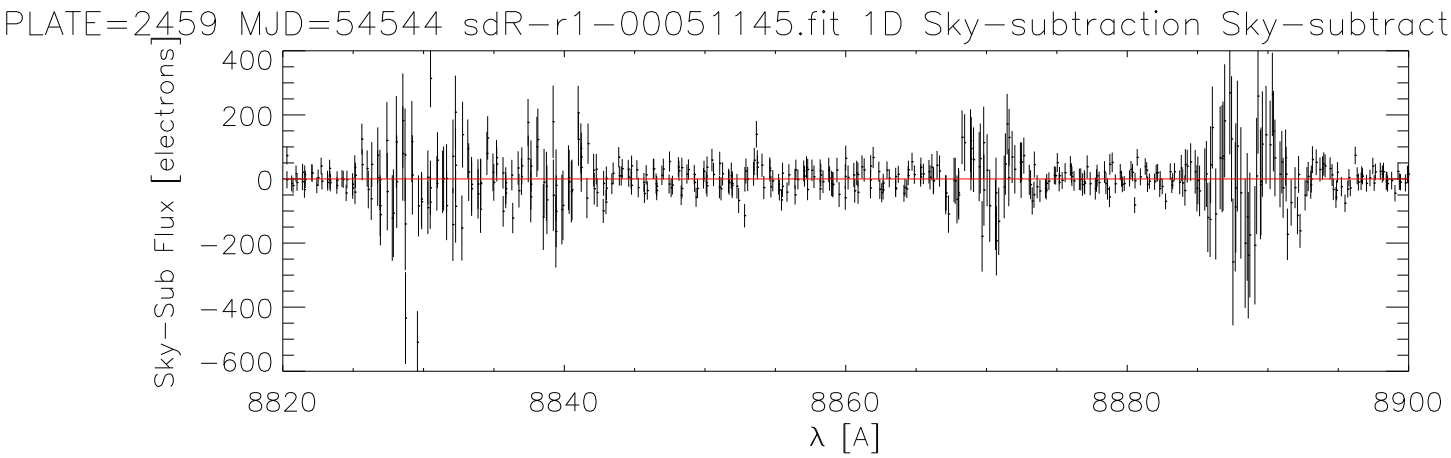

−0.05
−0.10
−0.15
−0.20
−0.25
sky shift, pixels
5000
6000
7000
8000
9000
10000

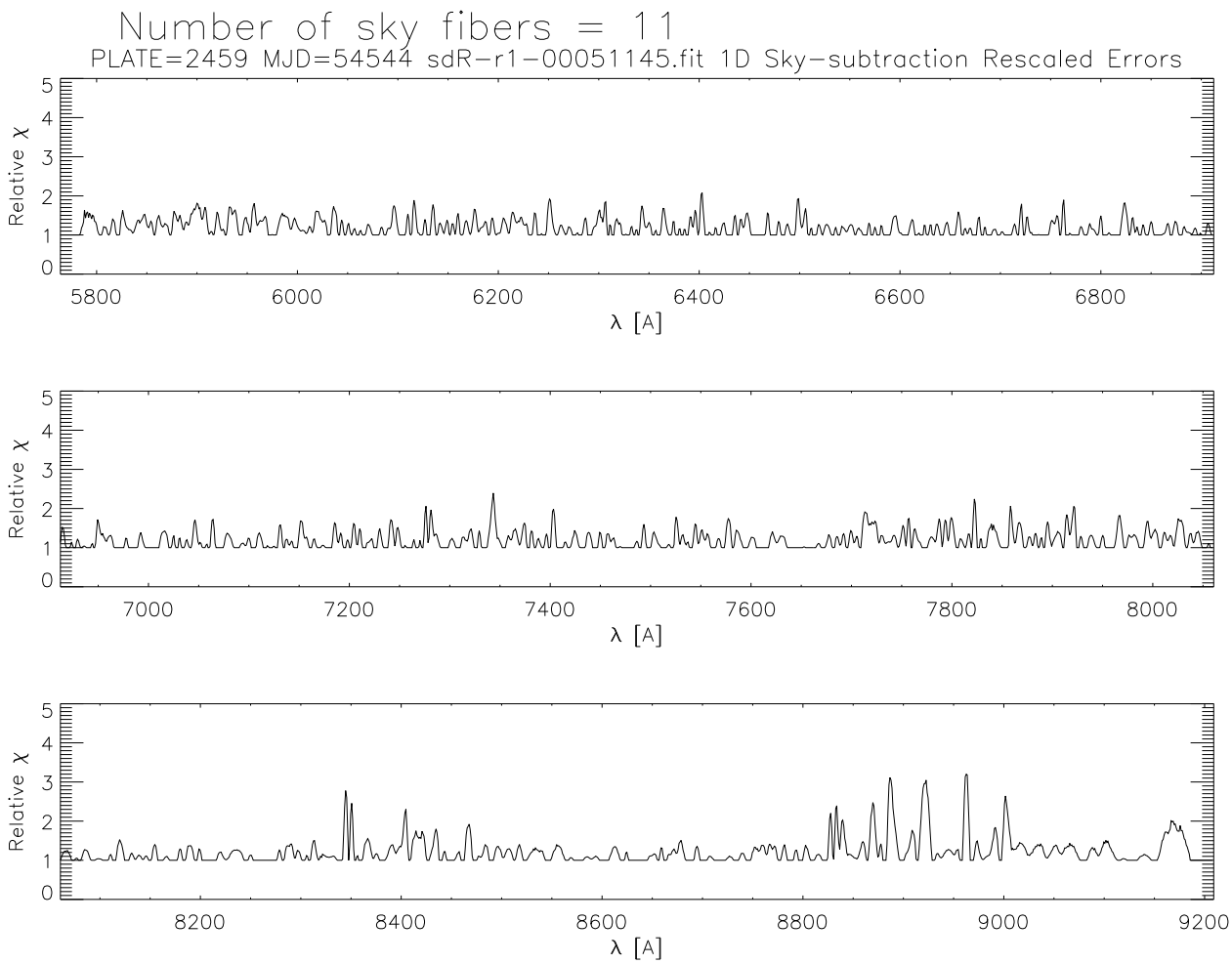
es= 0.0000

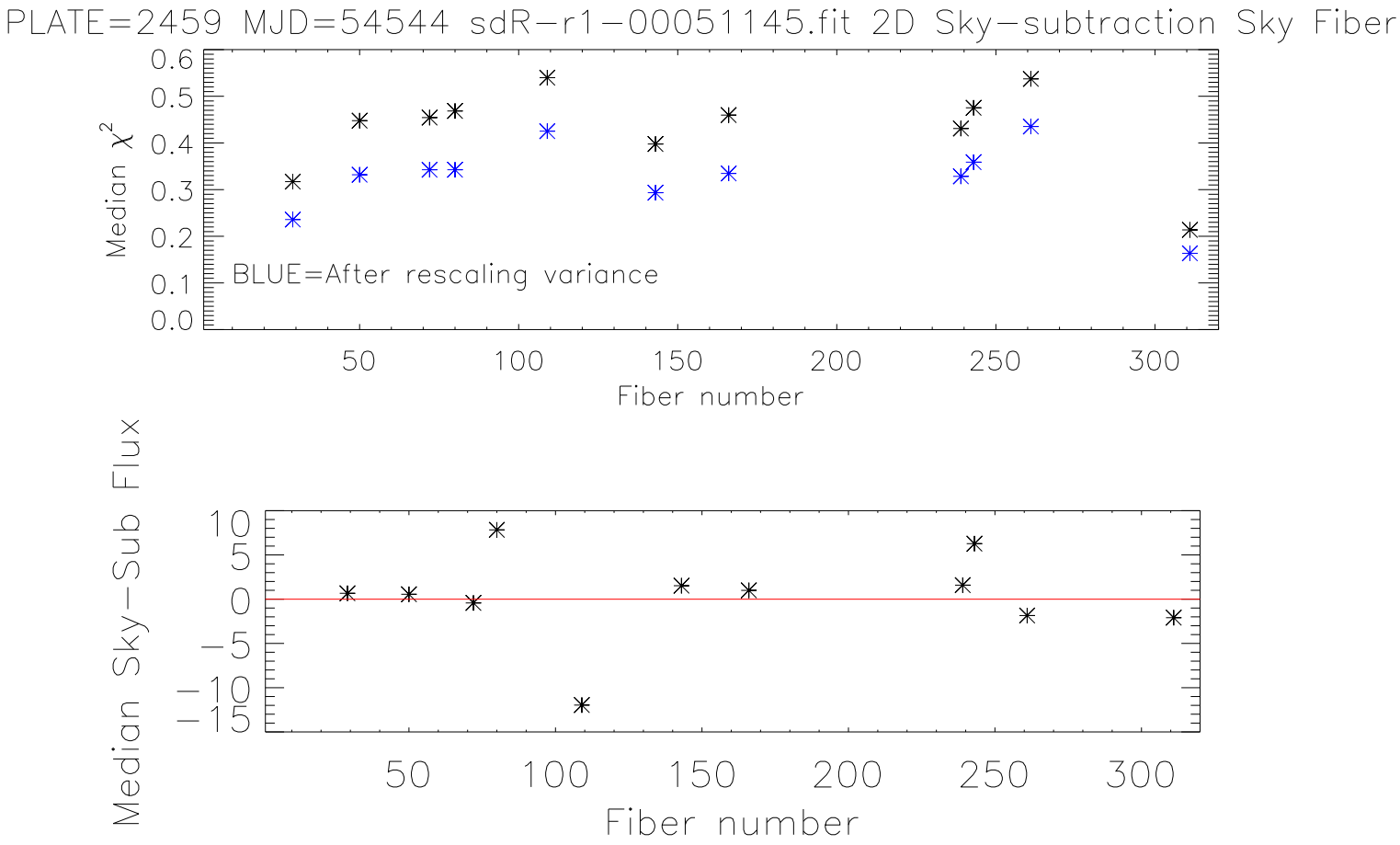

PLATE=2459 MJD=54544 Smooth superflat for sdR-r1-00051145.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

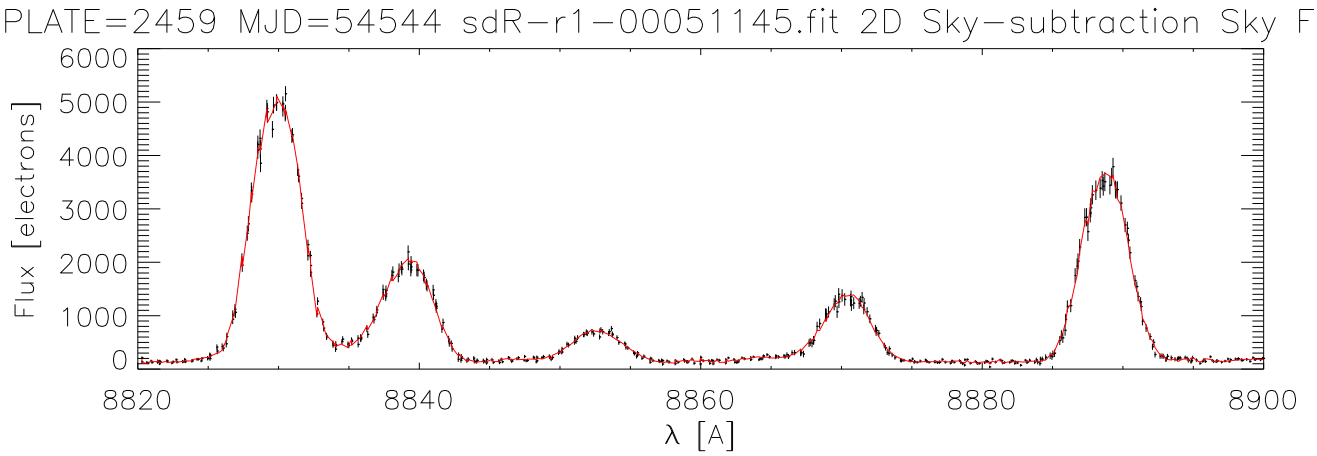

PLATE=2459 MJD=54544 sdR-r1-00051145.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
10
0
-10
-20
50
100
150
200
250
300
Fiber number

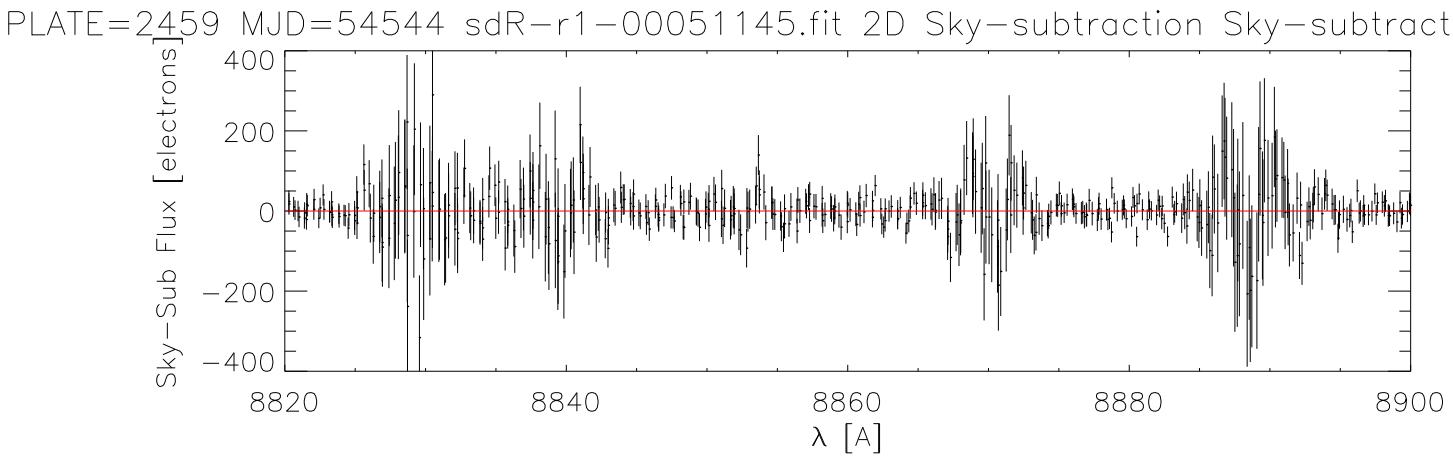

PLATE=2459 MJD=54544 sdR-r1-00051145.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

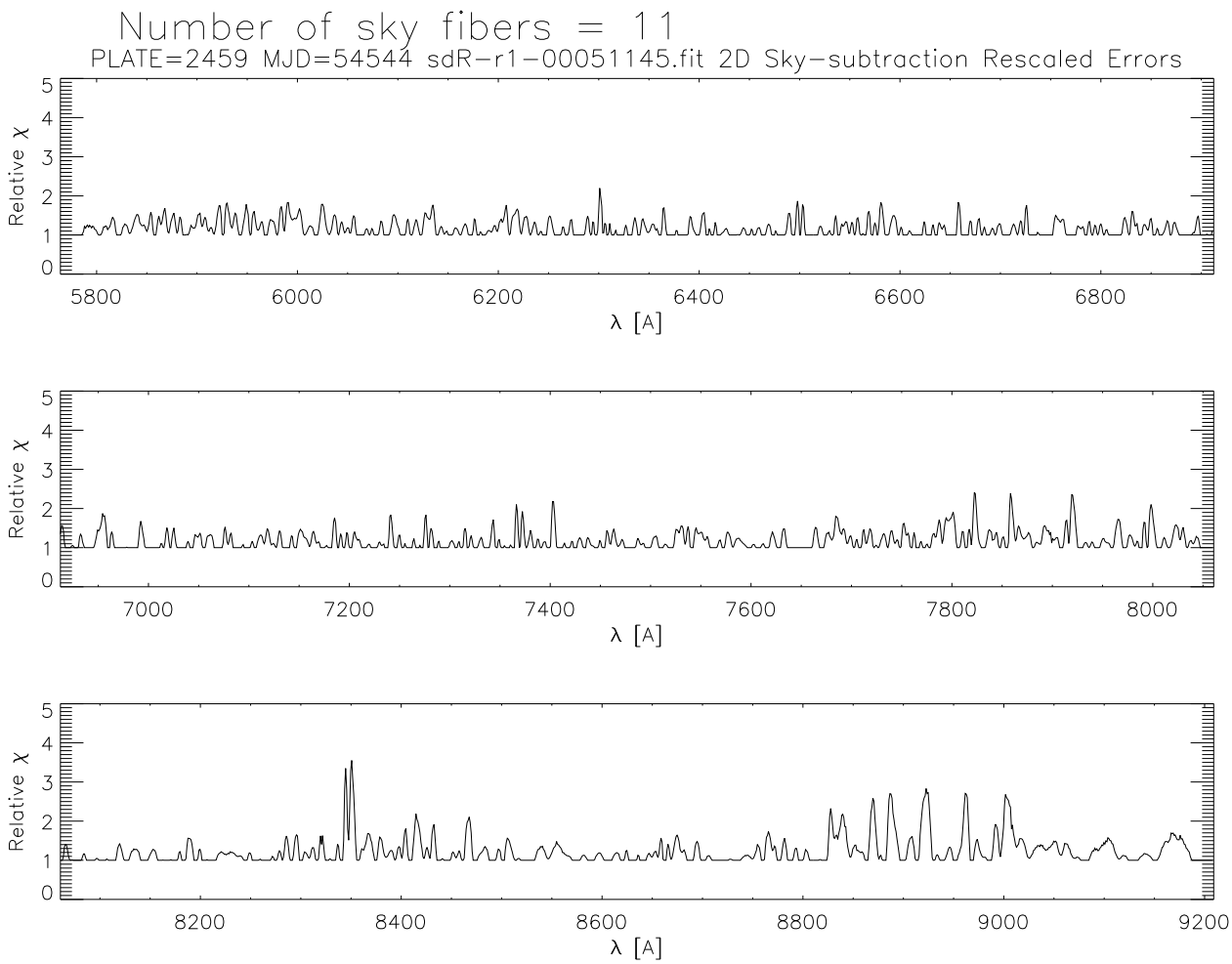

PLATE=2459 MJD=54544 sdR-r1-00051145.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
-600
8820
8840
8860
8880
8900
λ [A]

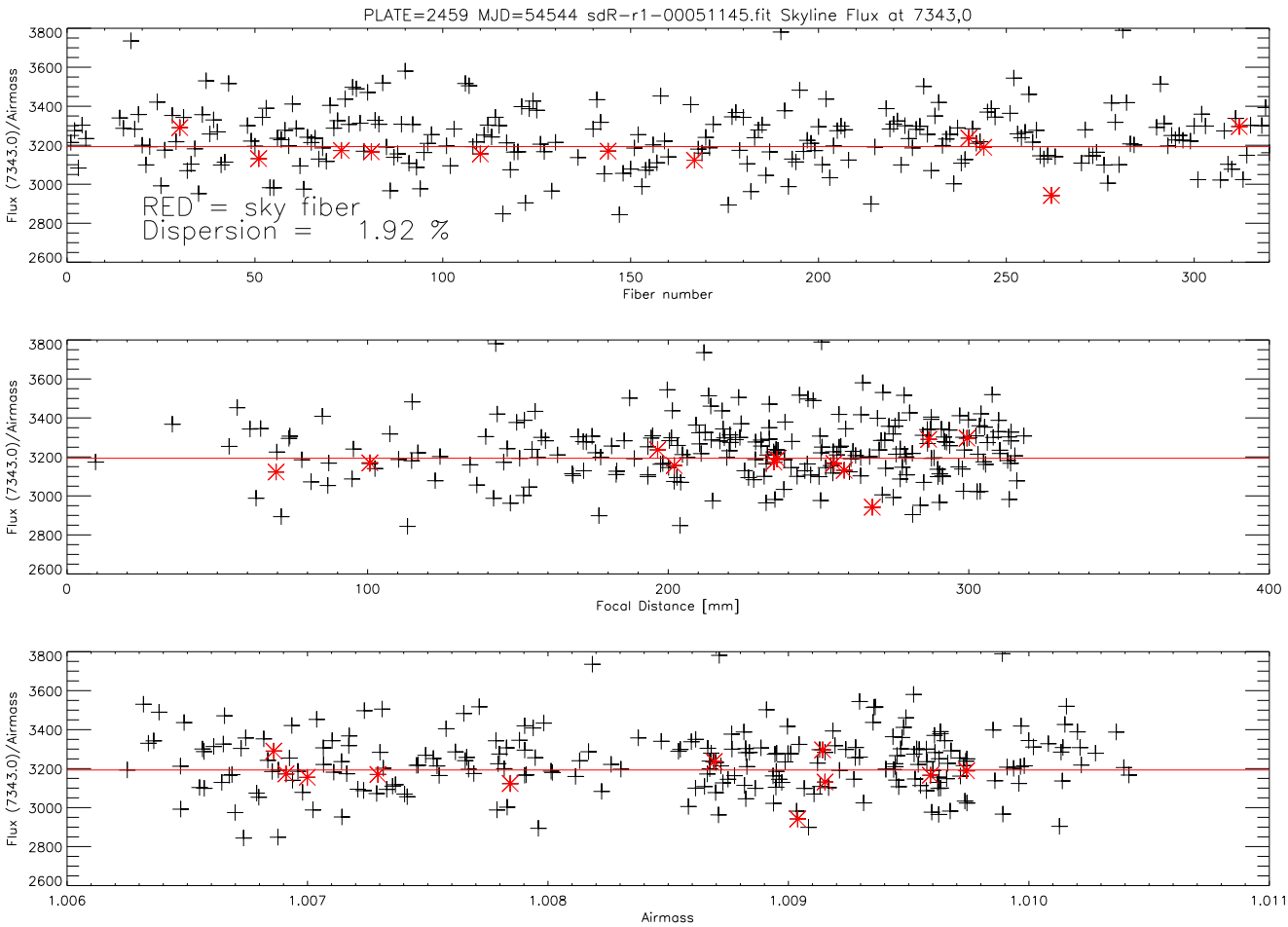

Number of sky fibers = 11
PLATE=2459 MJD=54544 sdR-r1-00051145.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

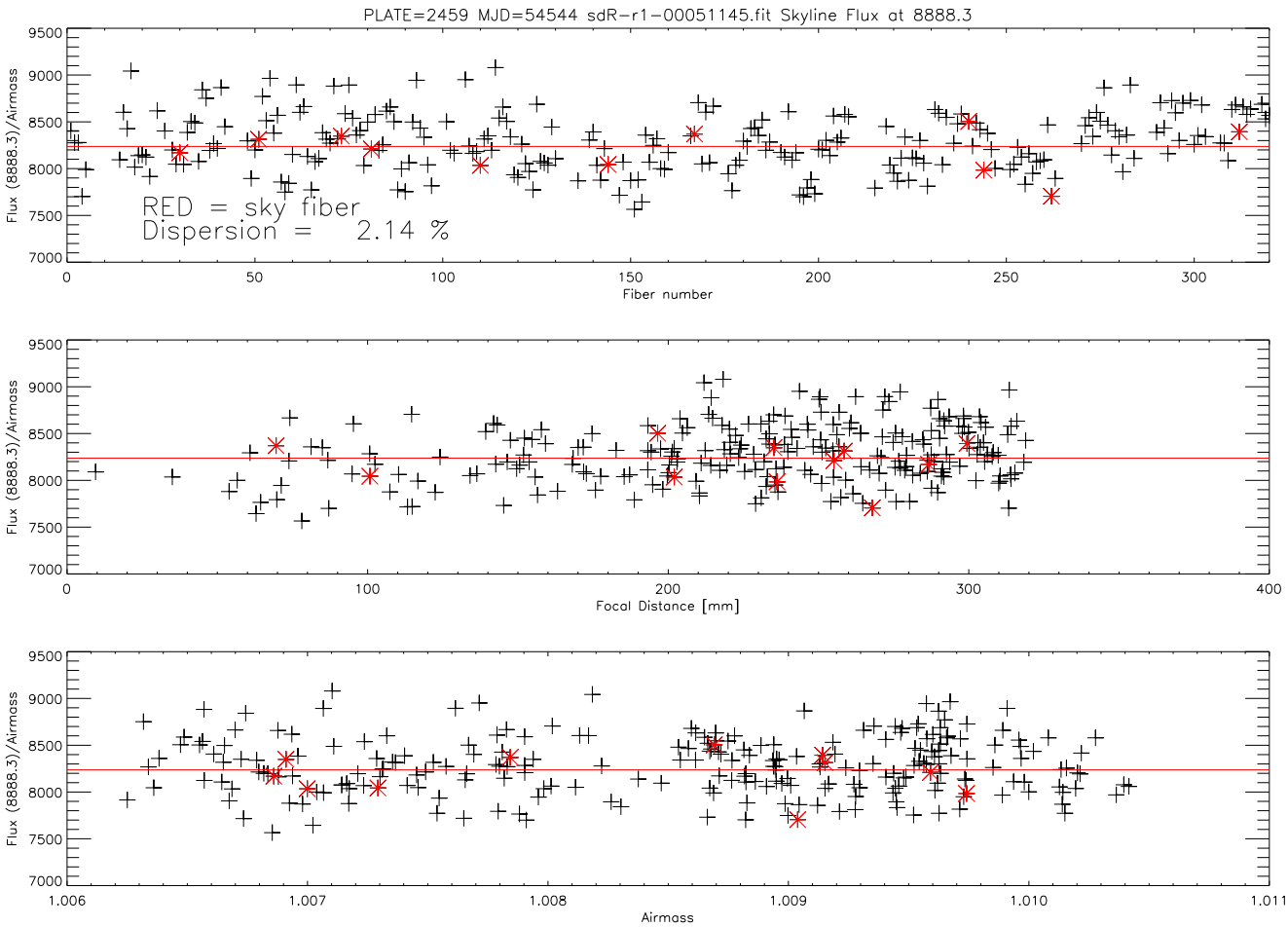

PLATE=2459 MJD=54544 sdR-r1-00051145.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

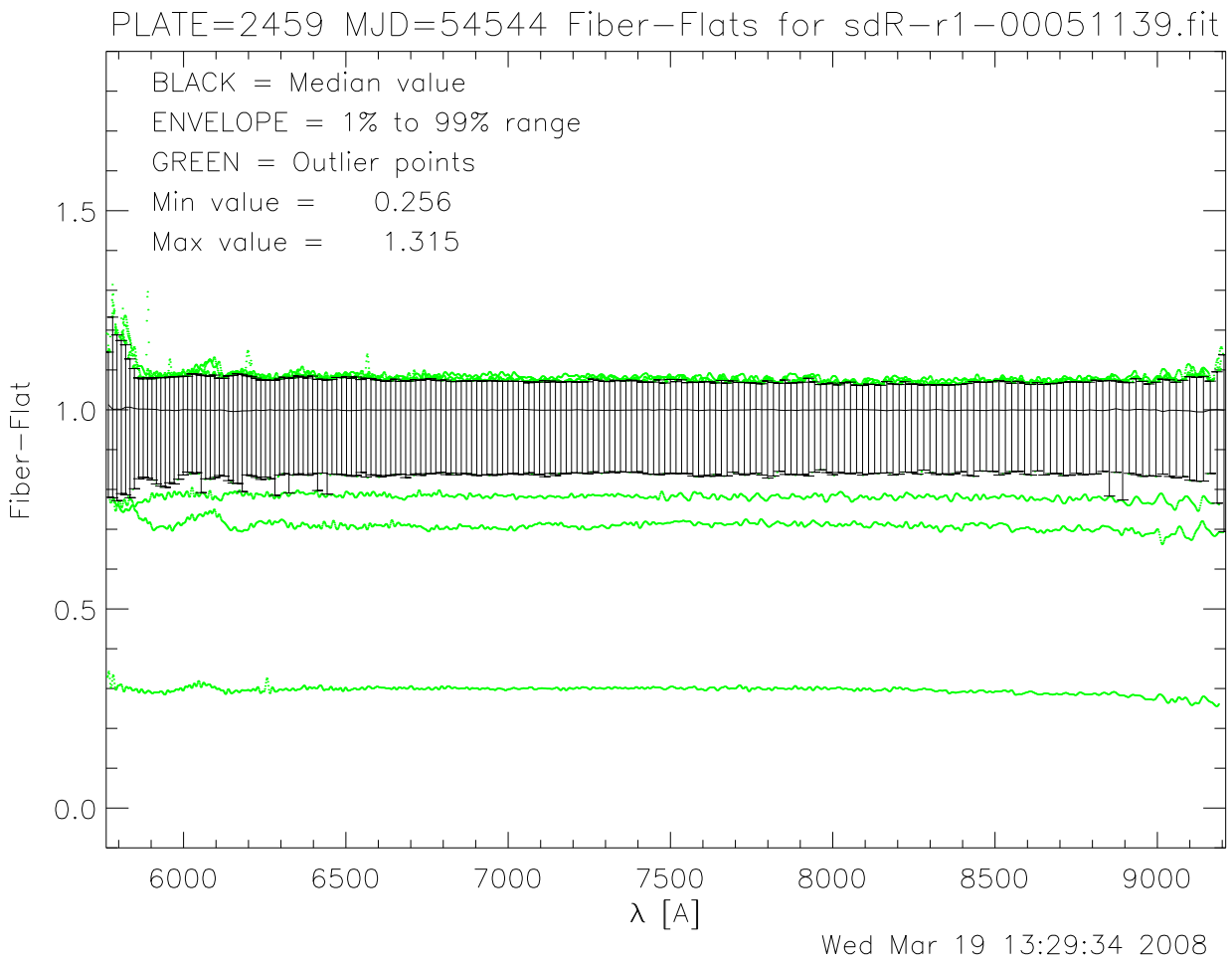

PLATE=2459 MJD=54544 sdR-r1-00051145.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

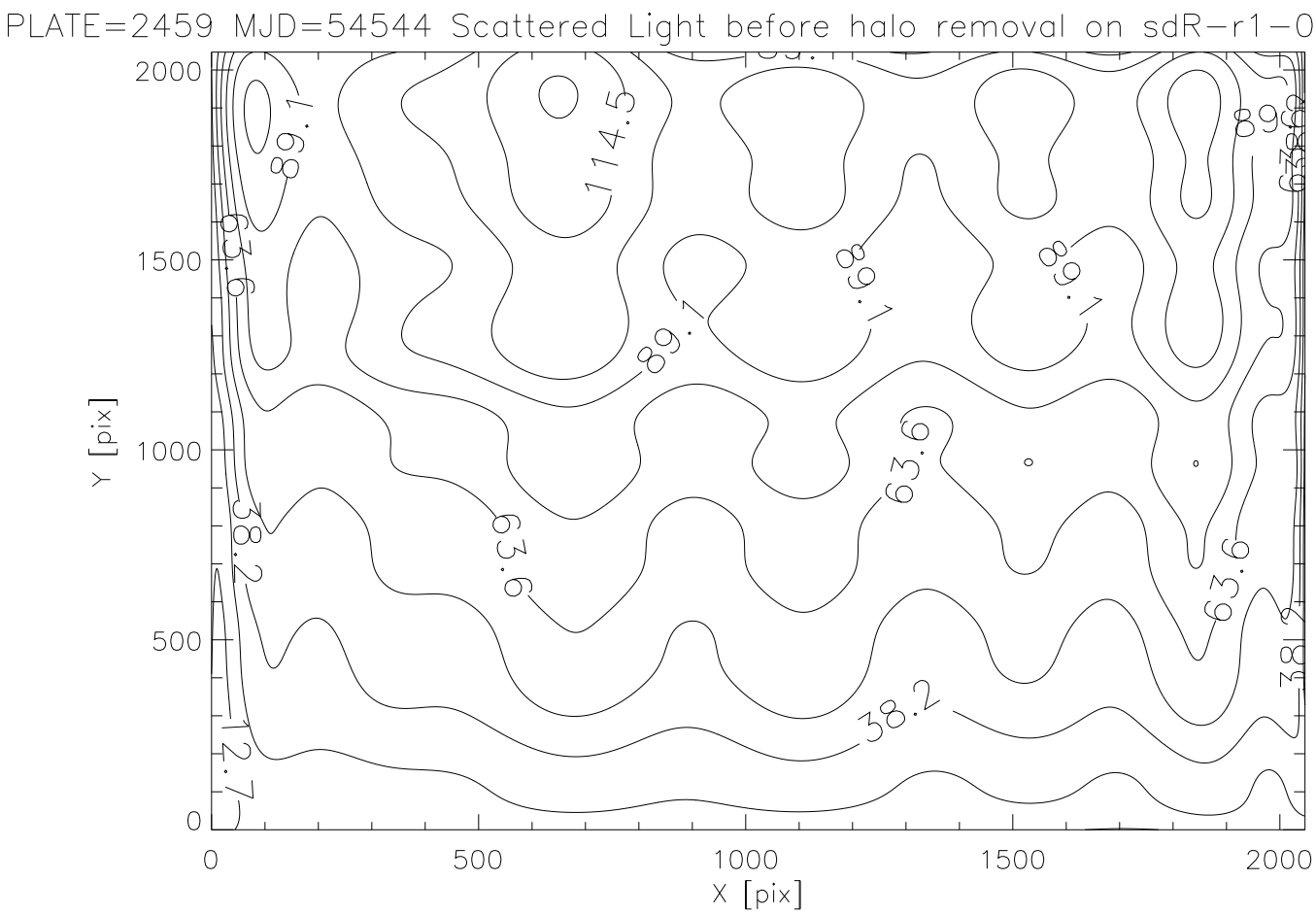

PLATE=2459 MJD=54544 sdR-r1-00051145.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

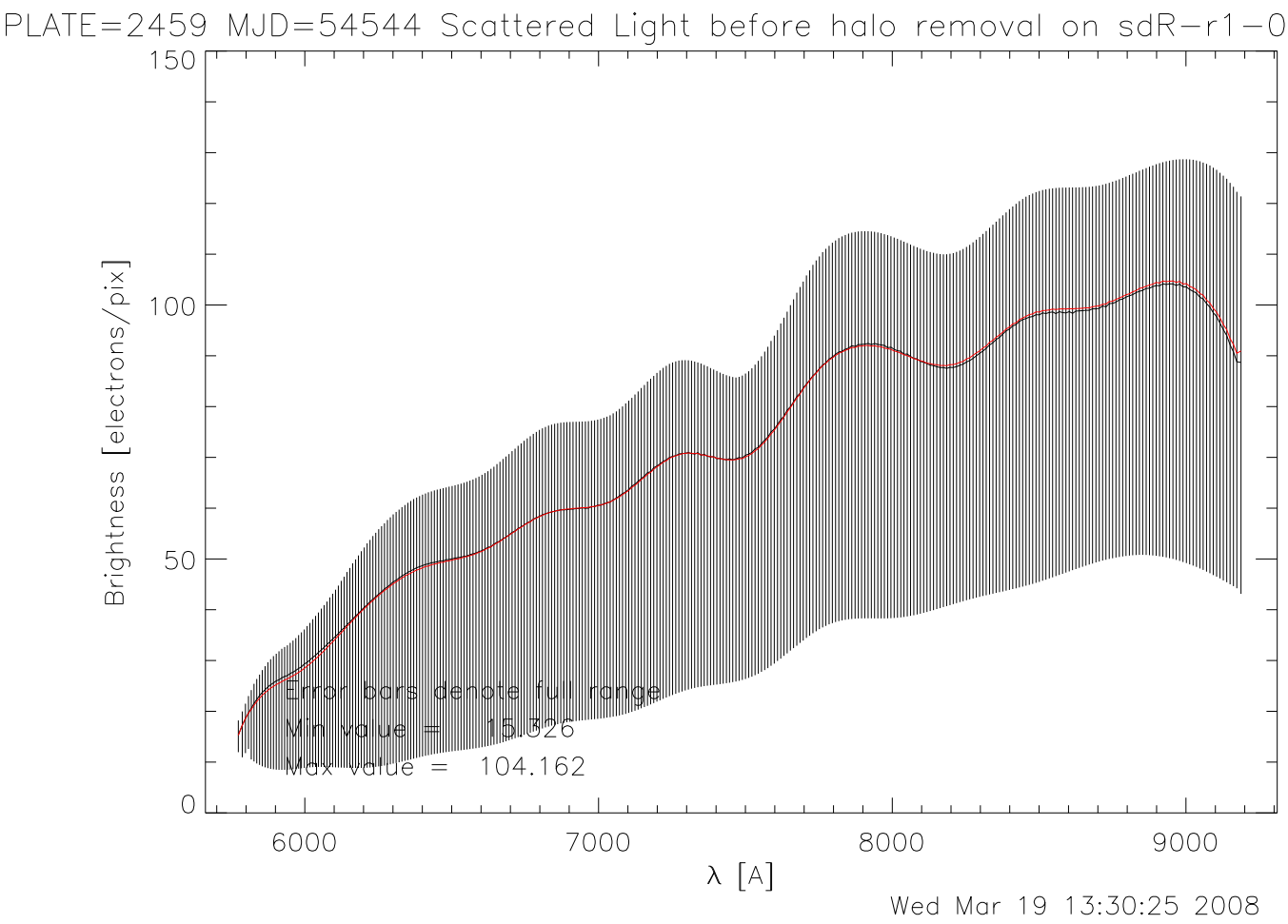

Number of sky fibers = 11
PLATE=2459 MJD=54544 sdR-r1-00051145.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

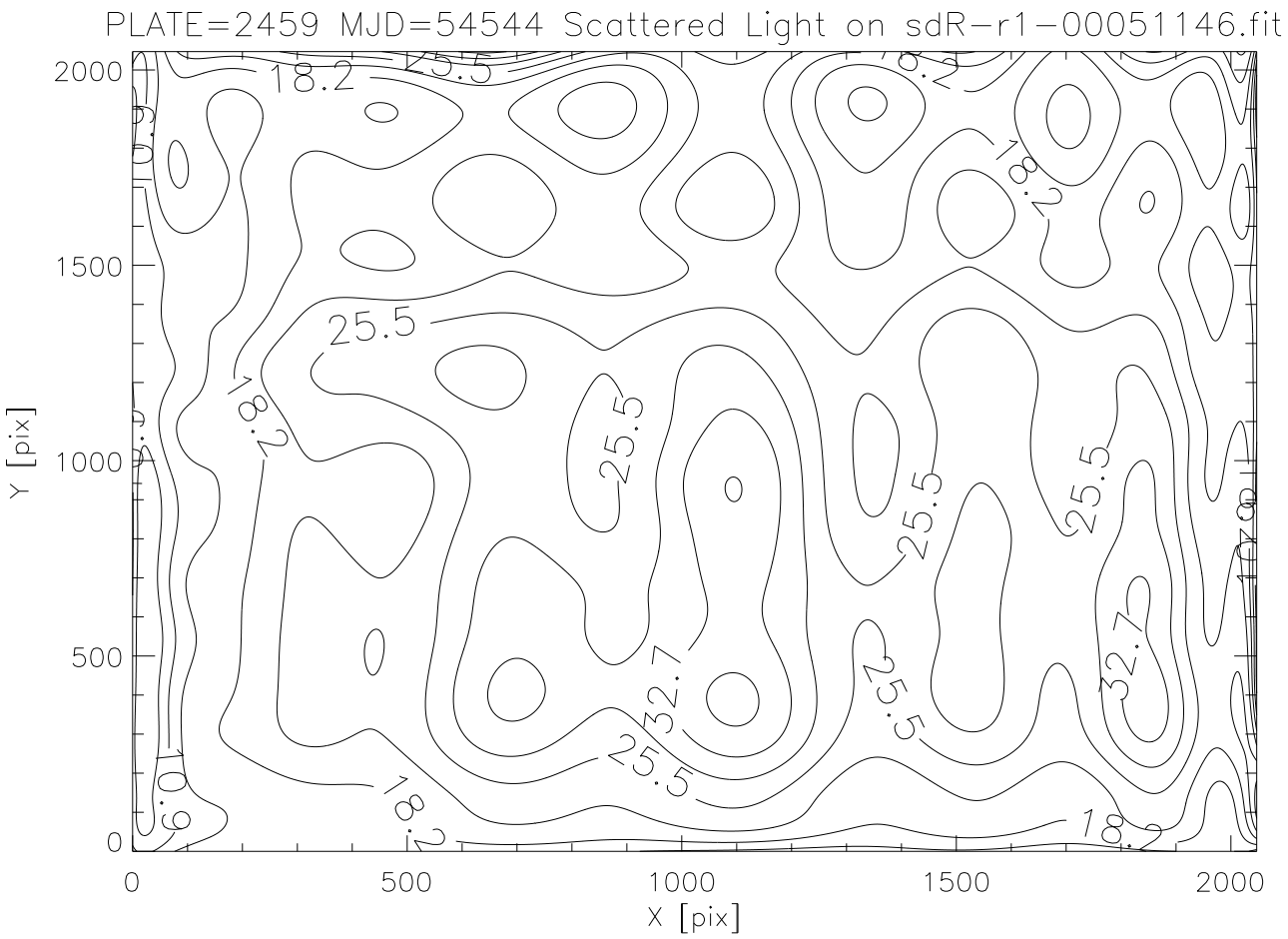

PLATE=2459 MJD=54544 sdR-r1-00051145.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.92 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

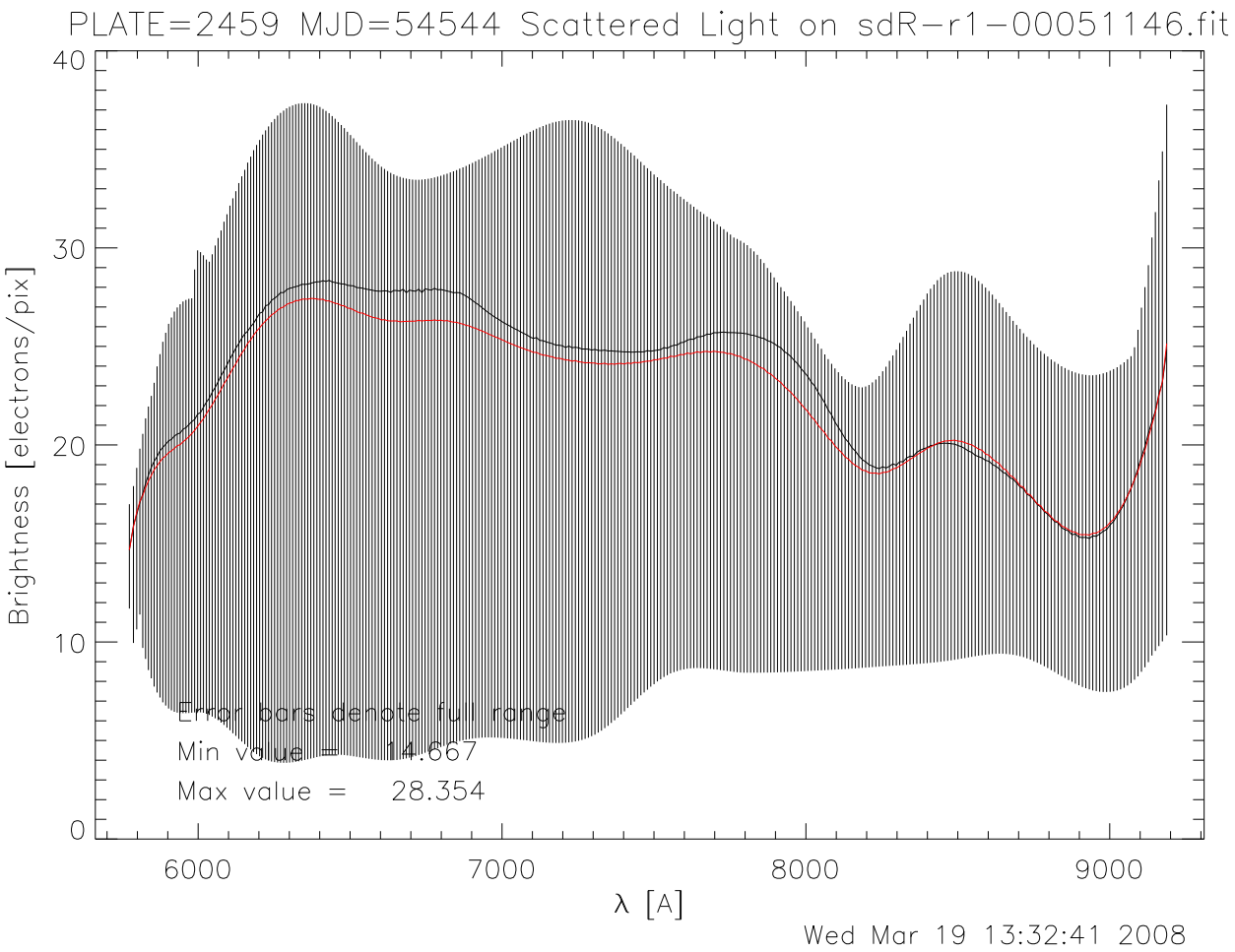

PLATE=2459 MJD=54544 sdR-r1-00051145.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.14 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

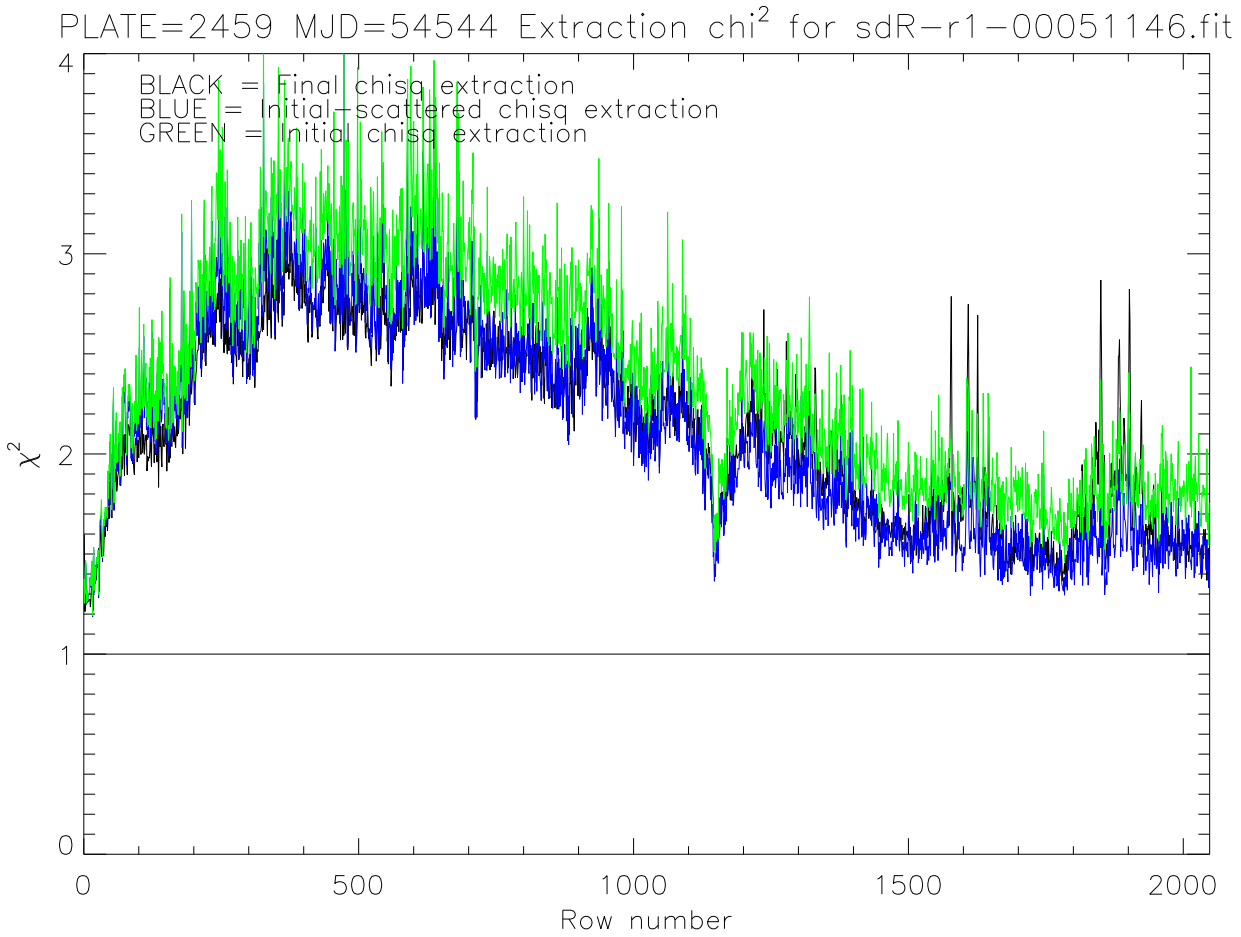

PLATE=2459 MJD=54544 Fiber−Flats for sdR−r1−00051139.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.256
Max value = 1.315
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 19 13:29:34 2008

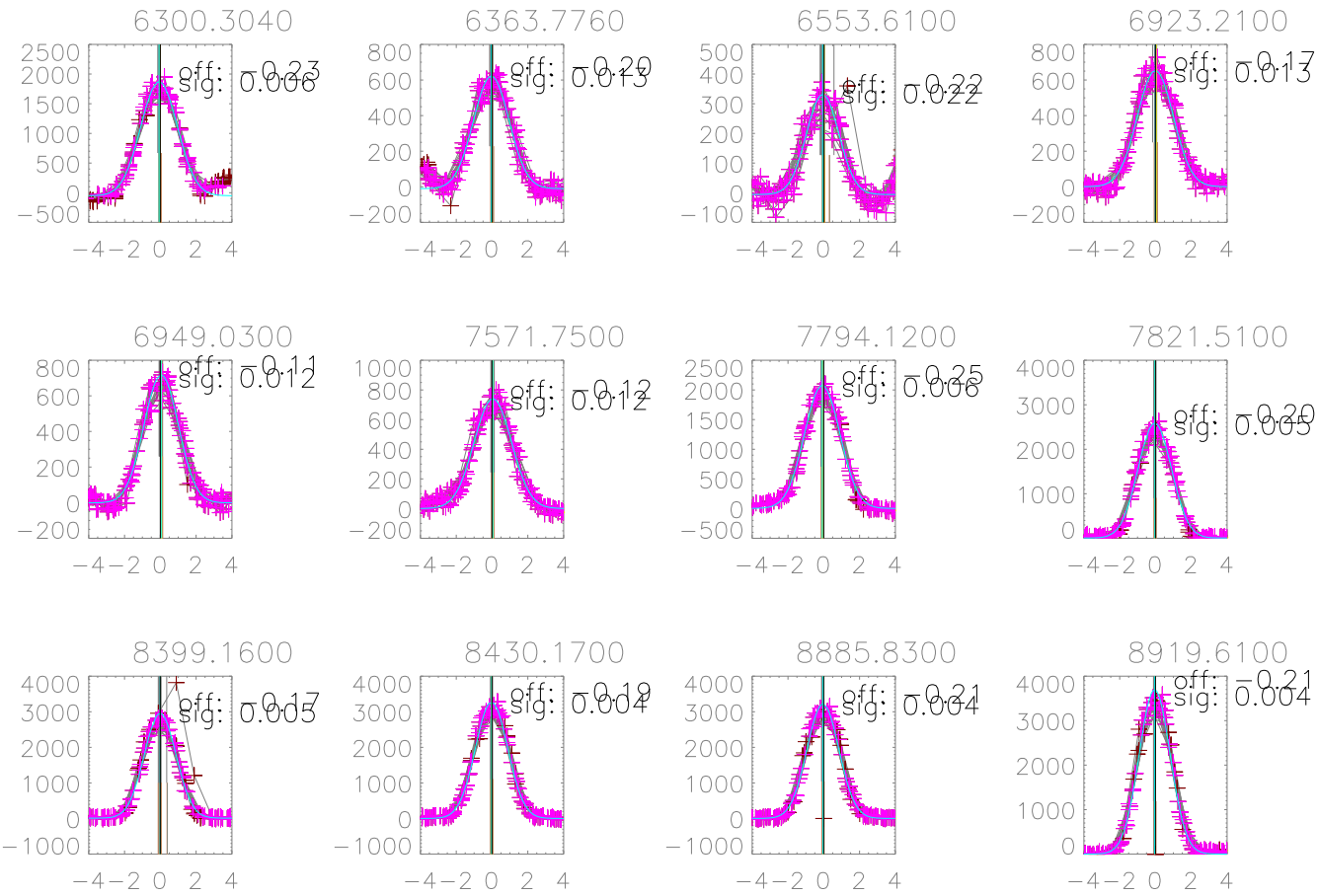

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-r1-00051146.fi
Y [pix]
X [pix]
0
500
1000
1500
2000
89.1
114.5
63.6
38.2
12.7

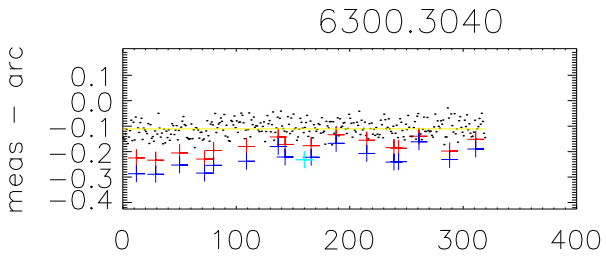

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-r1-00051146.fi
150
100
50
0
Brightness [electrons/pix]
Error bars denote full range
Min value = 15.526
Max value = 104.162
6000
7000
8000
9000
λ [A]
Wed Mar 19 13:30:25 2008

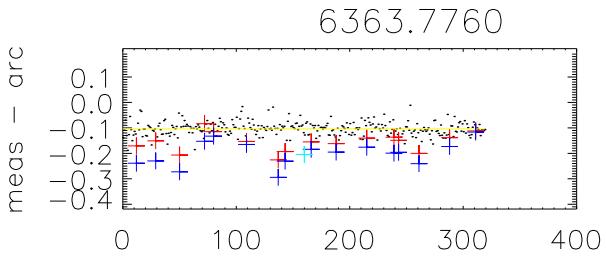

PLATE=2459 MJD=54544 Scattered Light on sdR-r1-00051146.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
18.2
25.5
32.7
10.9

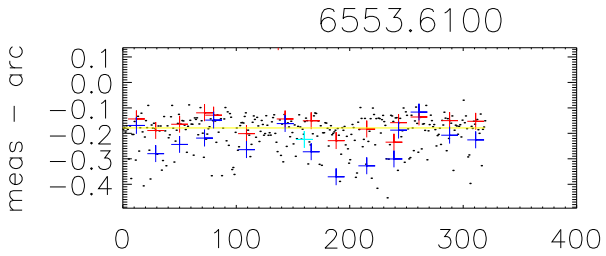

PLATE=2459 MJD=54544 Scattered Light on sdR-r1-00051146.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 14.667
Max value = 28.354
Wed Mar 19 13:32:41 2008

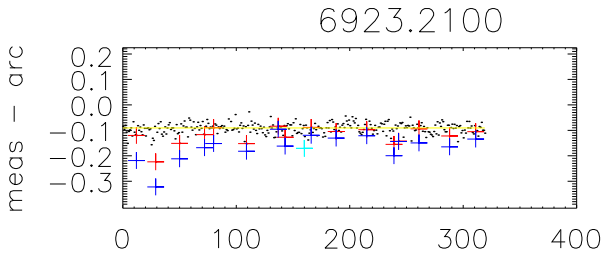

PLATE=2459 MJD=54544 Extraction chi^2 for sdR-r1-00051146.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

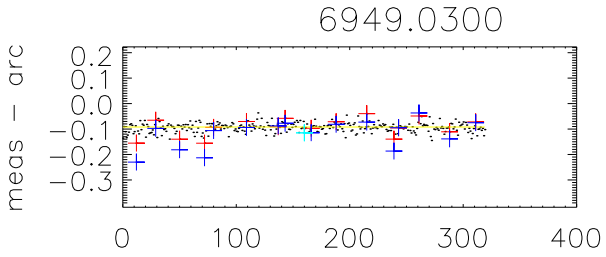

6300.3040
off: −0.23
sig: 0.006
6363.7760
off: −0.20
sig: 0.013
6553.6100
off: −0.22
sig: 0.022
6923.2100
off: −0.17
sig: 0.013
6949.0300
off: −0.11
sig: 0.012
7571.7500
off: −0.12
sig: 0.012
7794.1200
off: −0.25
sig: 0.006
7821.5100
off: −0.20
sig: 0.005
8399.1600
off: −0.17
sig: 0.005
8430.1700
off: −0.19
sig: 0.004
8885.8300
off: −0.21
sig: 0.004
8919.6100
off: −0.21
sig: 0.004

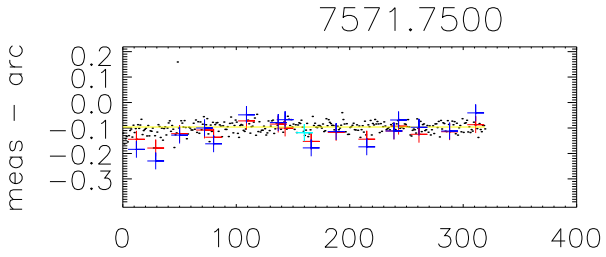

6300.3040
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

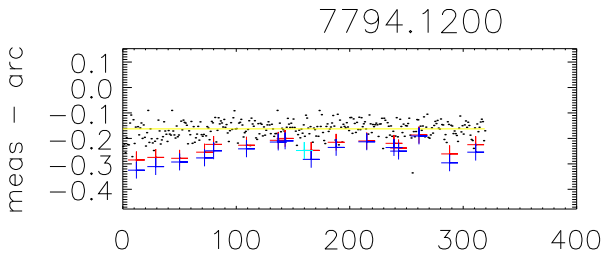

6363.7760
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

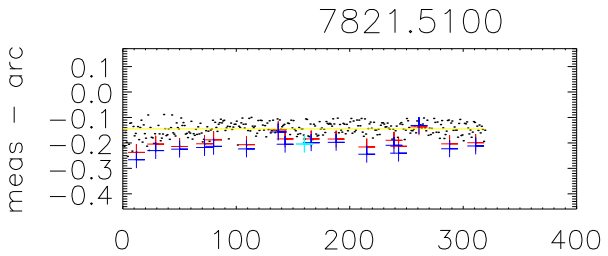

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

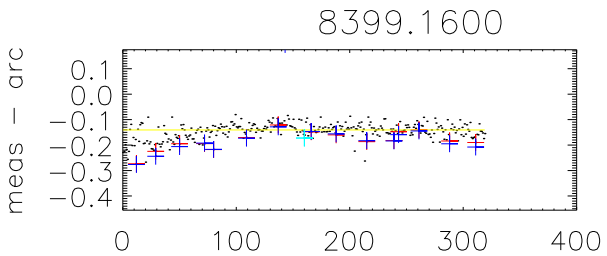

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

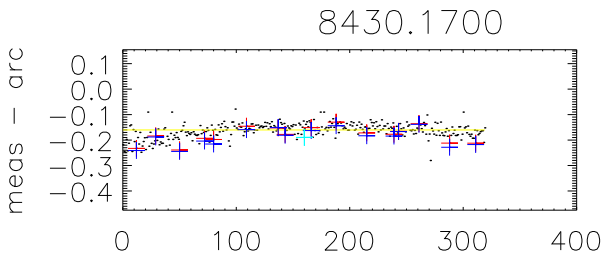

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

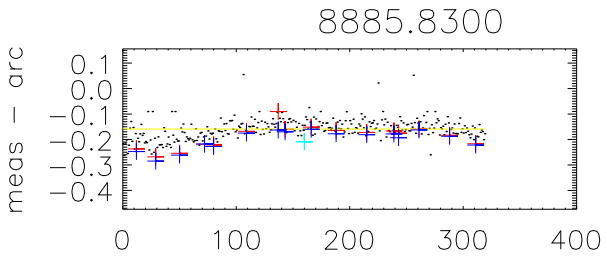

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

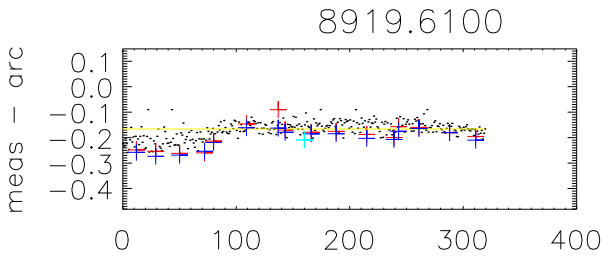

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

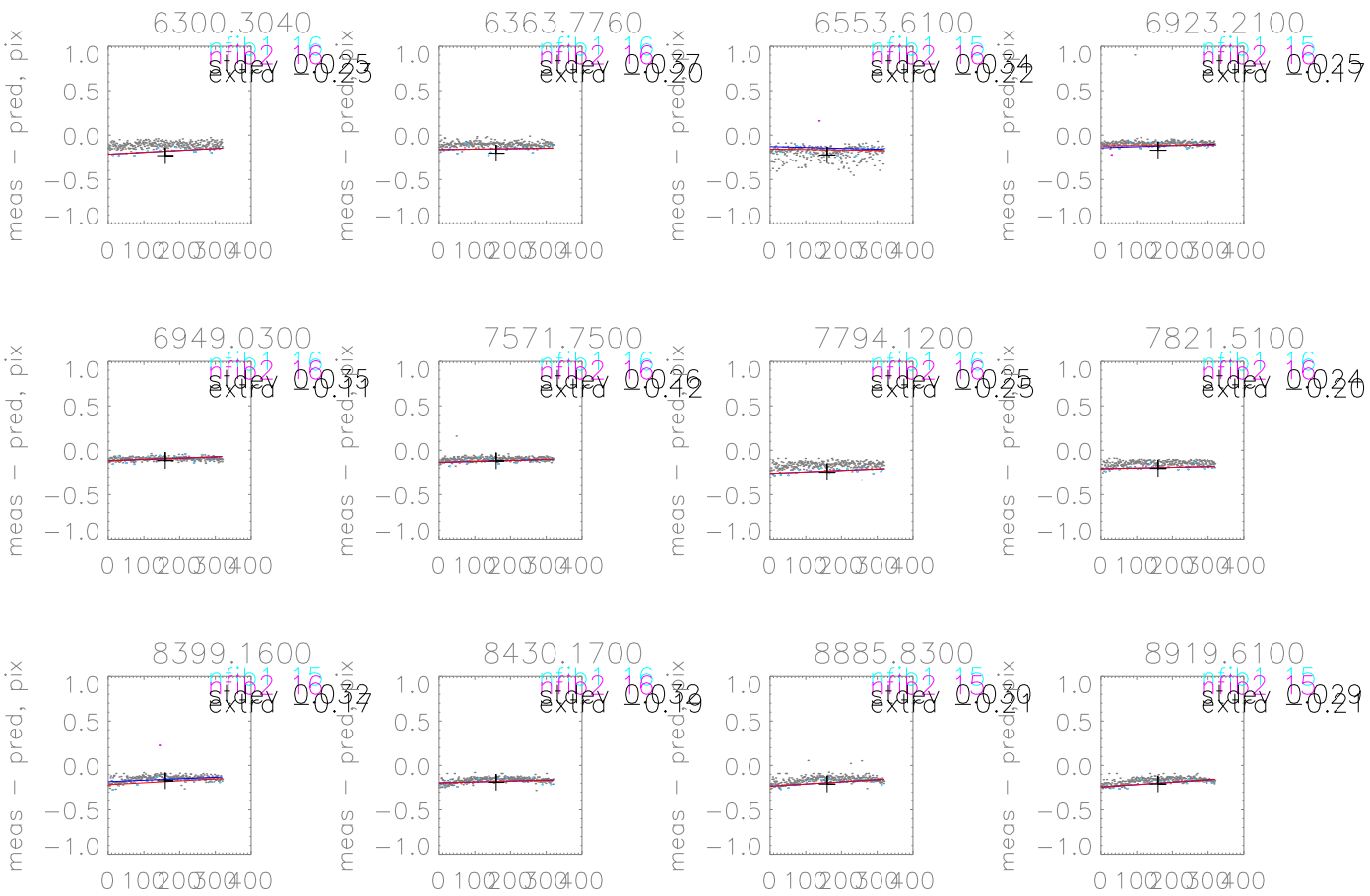

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

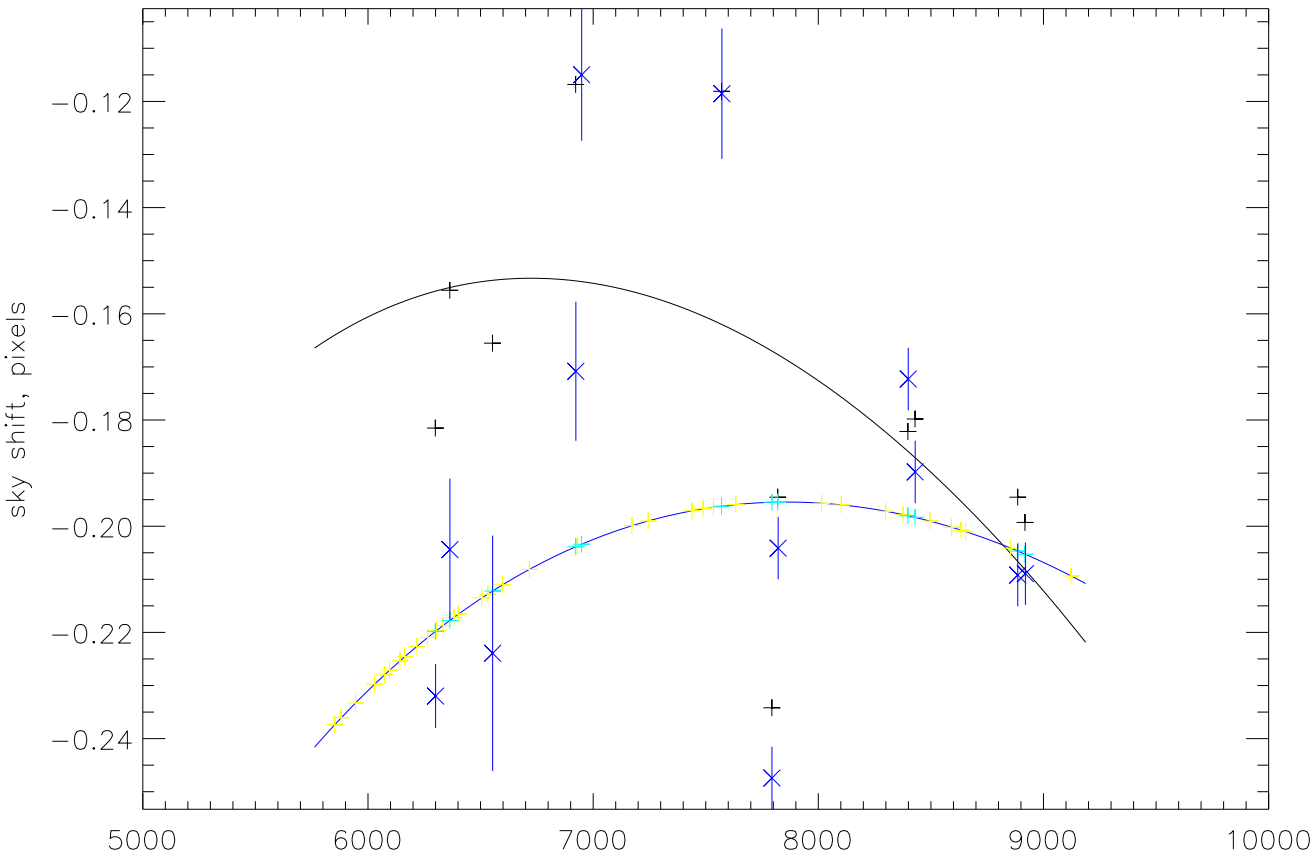

8399.1600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


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

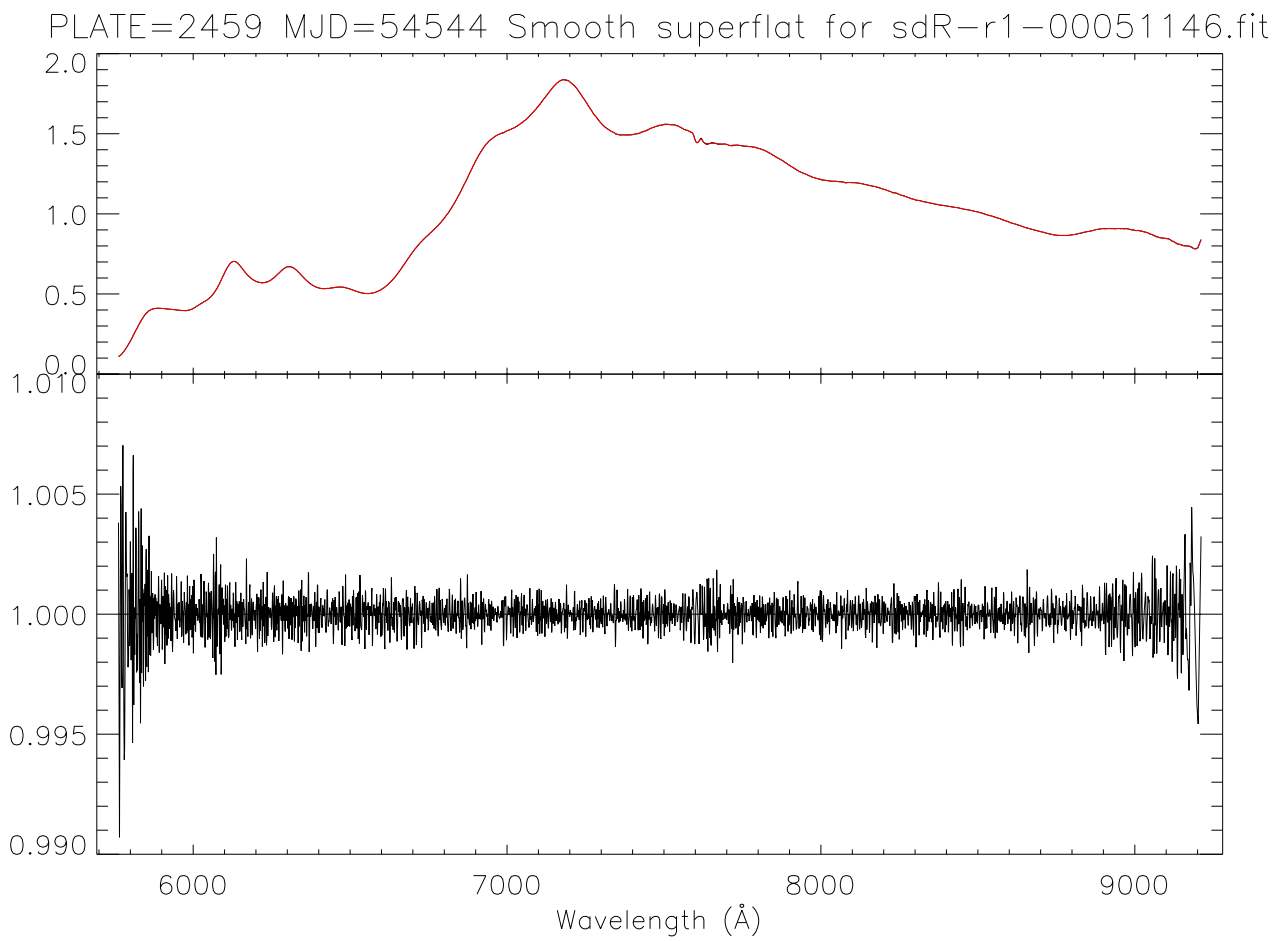

8885.8300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

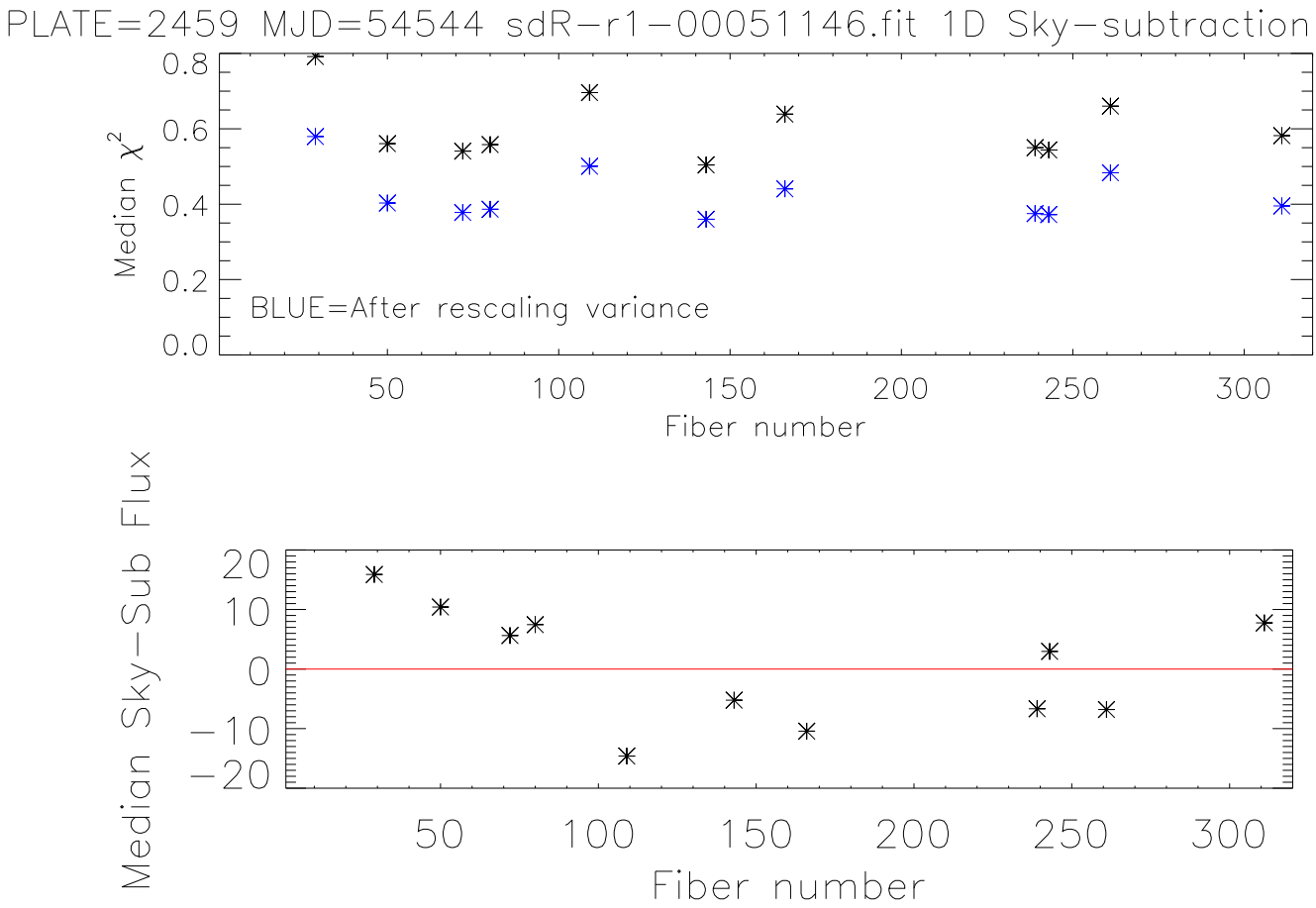

8919.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

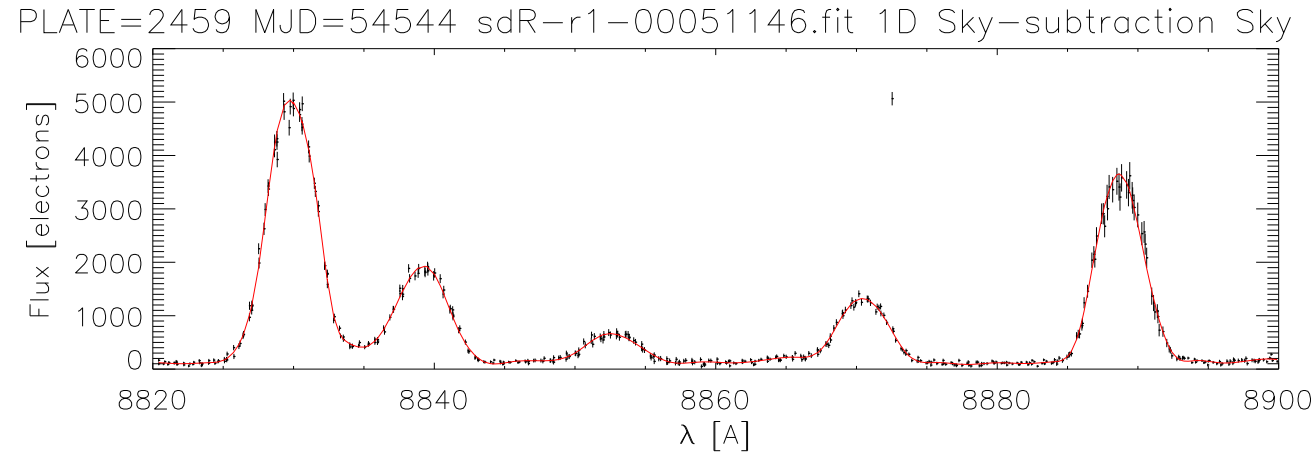

6300.3040
stdev 0.25
extra 0.23
6363.7760
stdev 0.27
extra 0.20
6553.6100
stdev 0.34
extra 0.22
6923.2100
stdev 0.25
extra 0.17
6949.0300
stdev 0.35
extra 0.31
7571.7500
stdev 0.26
extra 0.12
7794.1200
stdev 0.25
extra 0.23
7821.5100
stdev 0.24
extra 0.20
8399.1600
stdev 0.32
extra 0.17
8430.1700
stdev 0.32
extra 0.19
8885.8300
stdev 0.30
extra 0.21
8919.6100
stdev 0.29
extra 0.21
meas − pred, pix
mfib2 16
mfib1 15

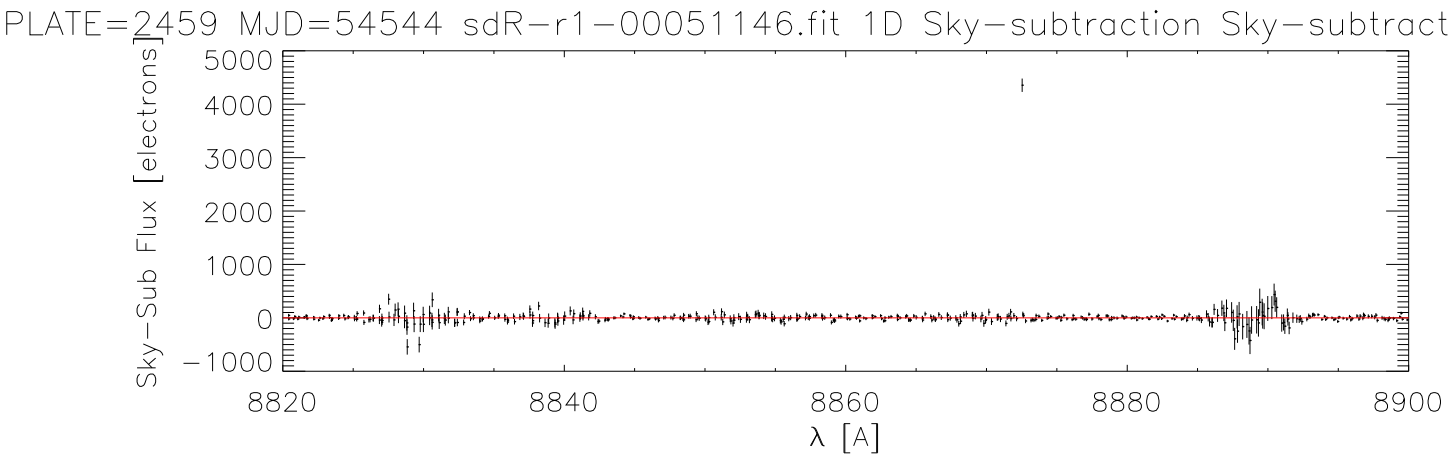

sky shift, pixels
−0.12
−0.14
−0.16
−0.18
−0.20
−0.22
−0.24
5000
6000
7000
8000
9000
10000

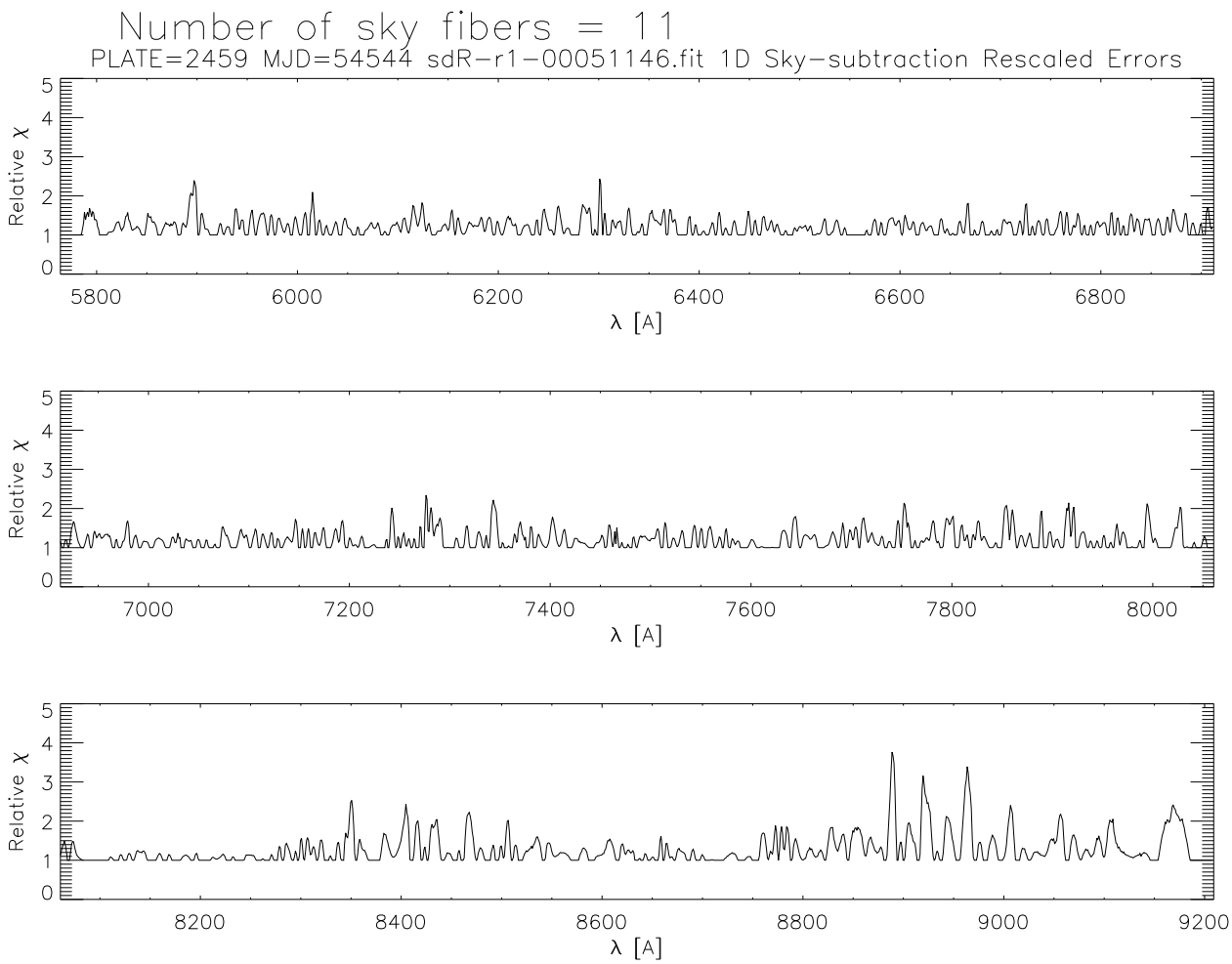
es= 0.0000

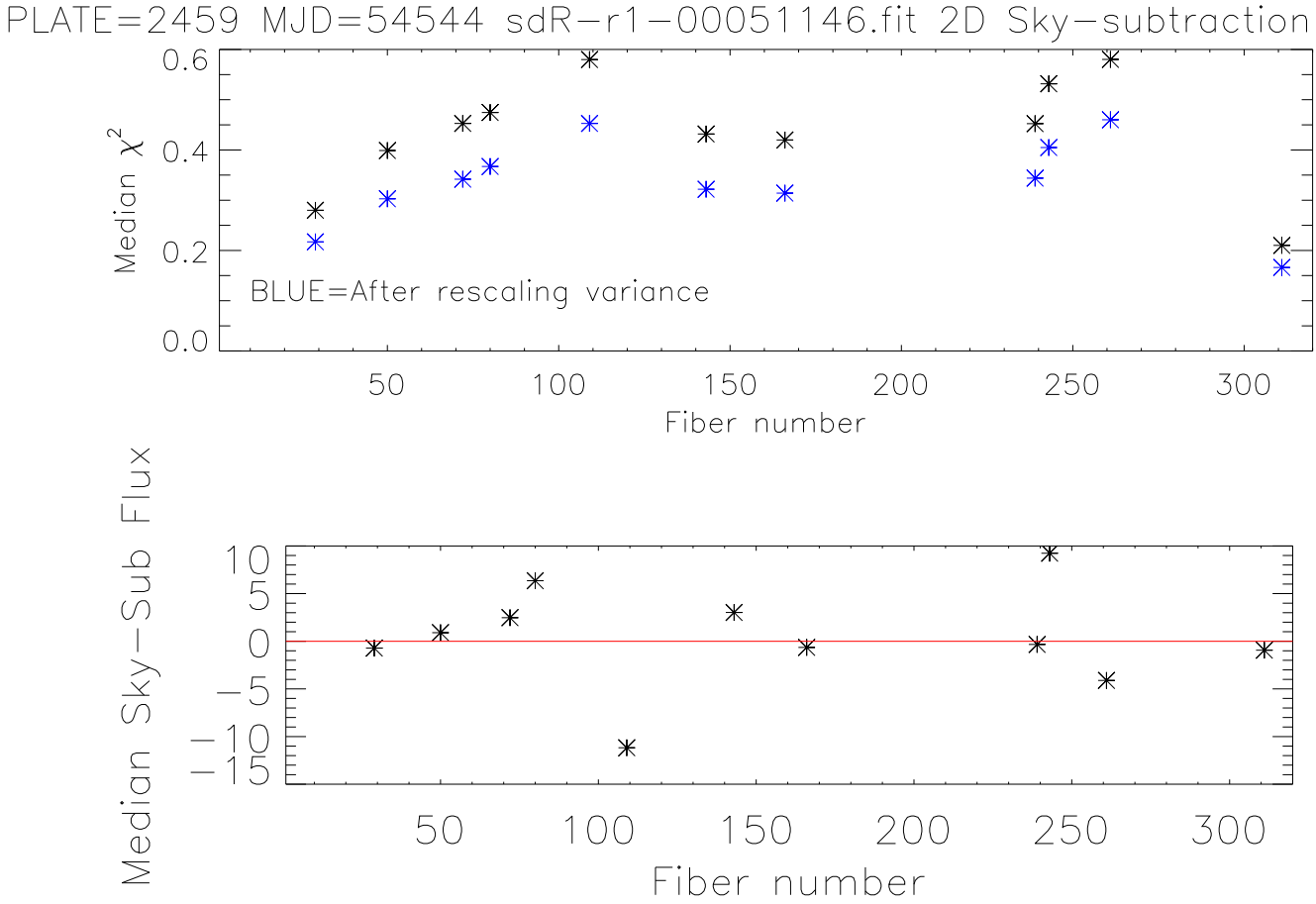

PLATE=2459 MJD=54544 Smooth superflat for sdR-r1-00051146.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

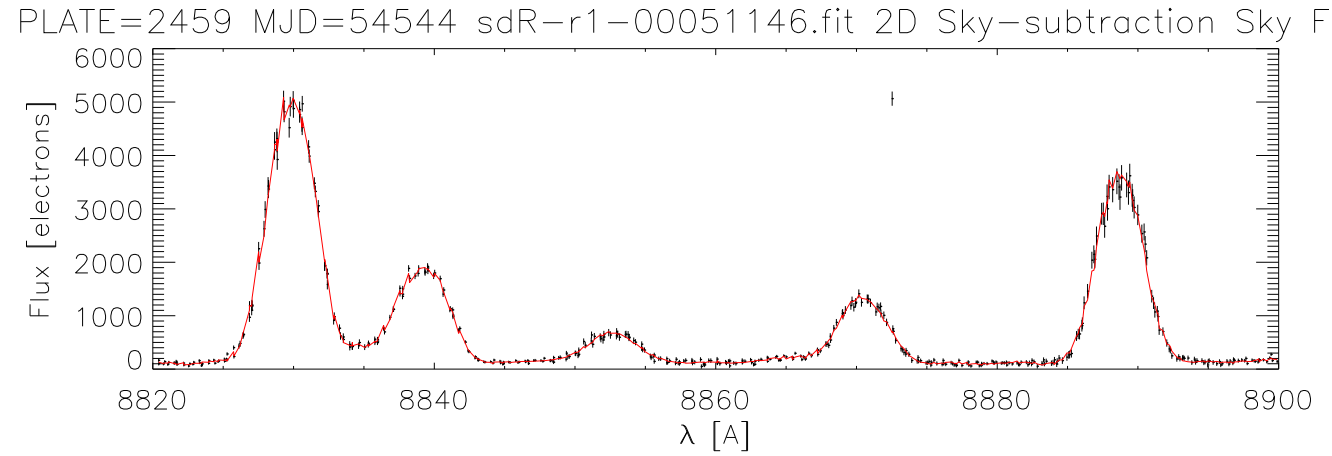

PLATE=2459 MJD=54544 sdR-r1-00051146.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
10
0
−10
−20
50
100
150
200
250
300
Fiber number

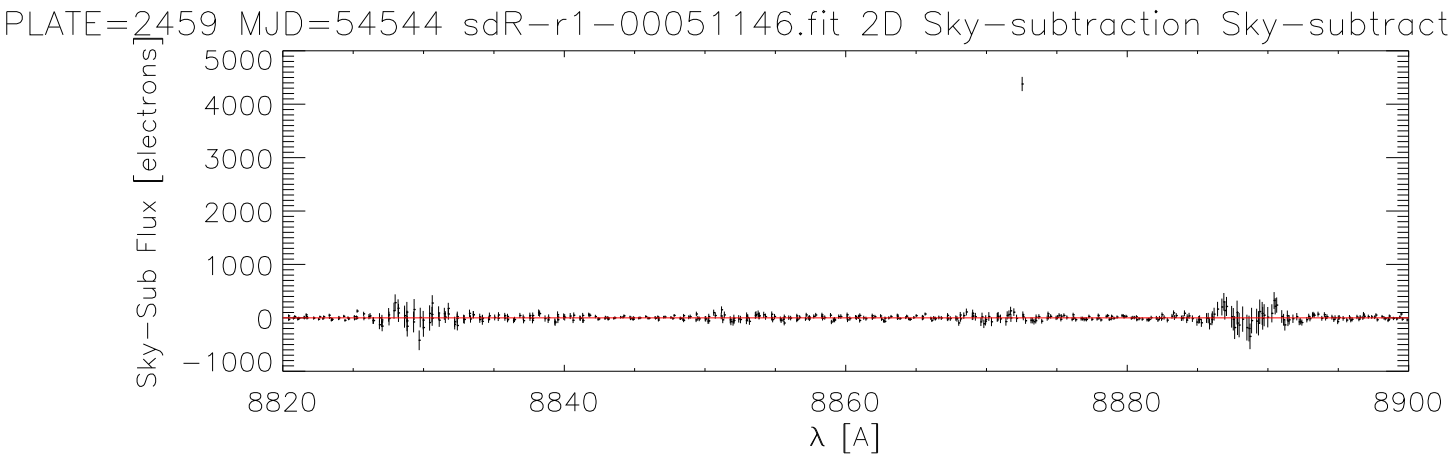

PLATE=2459 MJD=54544 sdR-r1-00051146.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

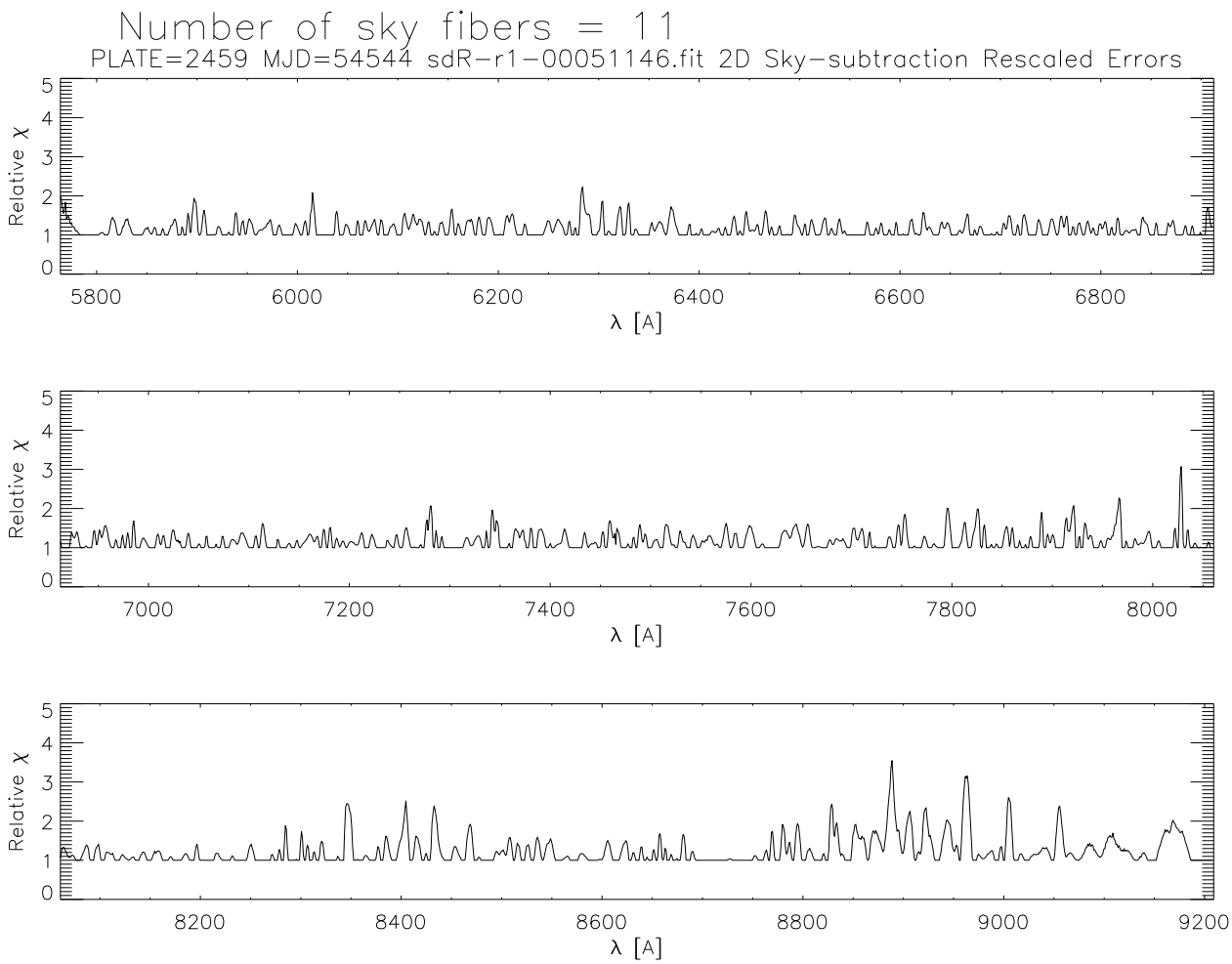

PLATE=2459 MJD=54544 sdR-r1-00051146.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
5000
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

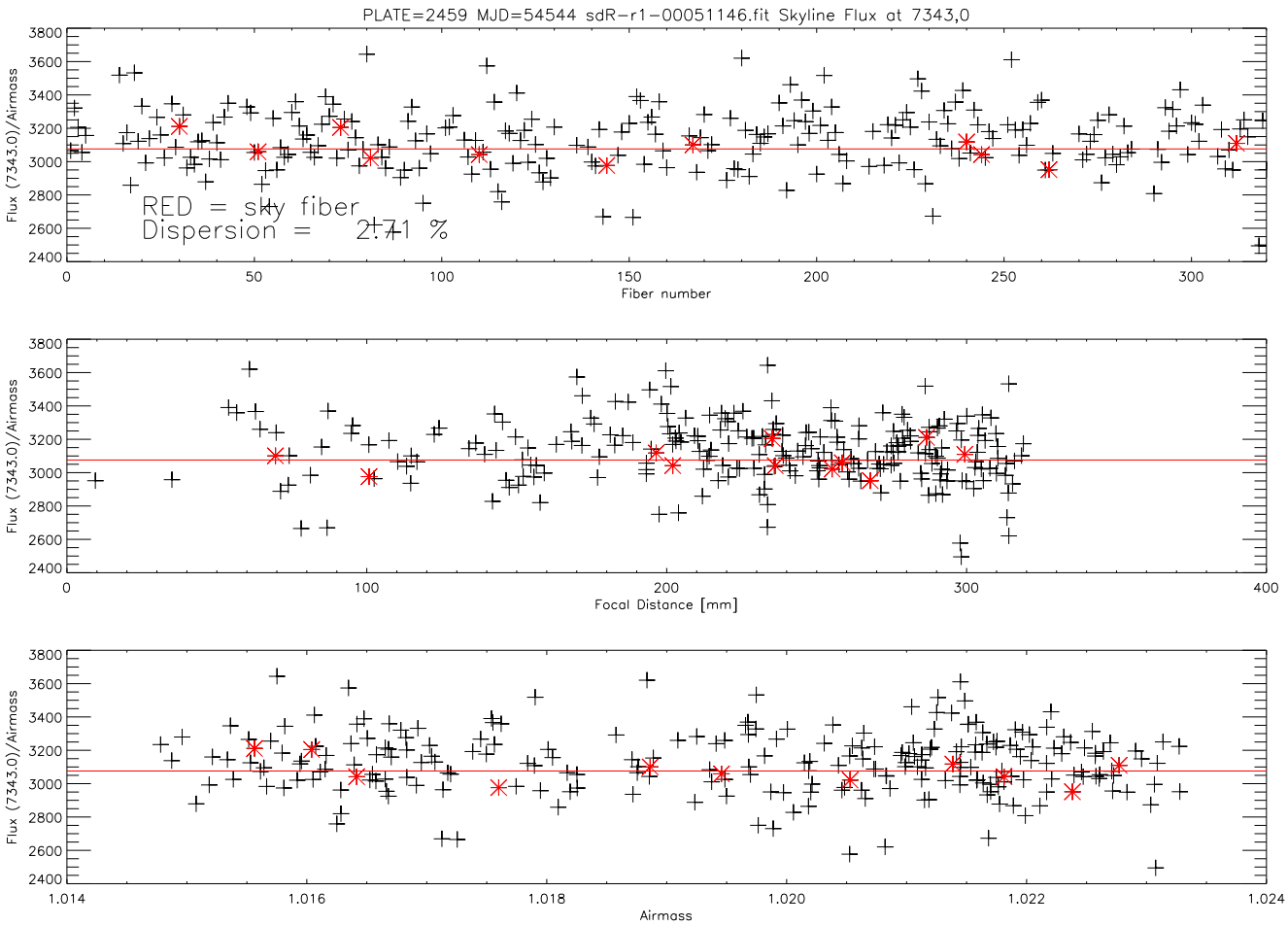

Number of sky fibers = 11
PLATE=2459 MJD=54544 sdR-r1-00051146.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

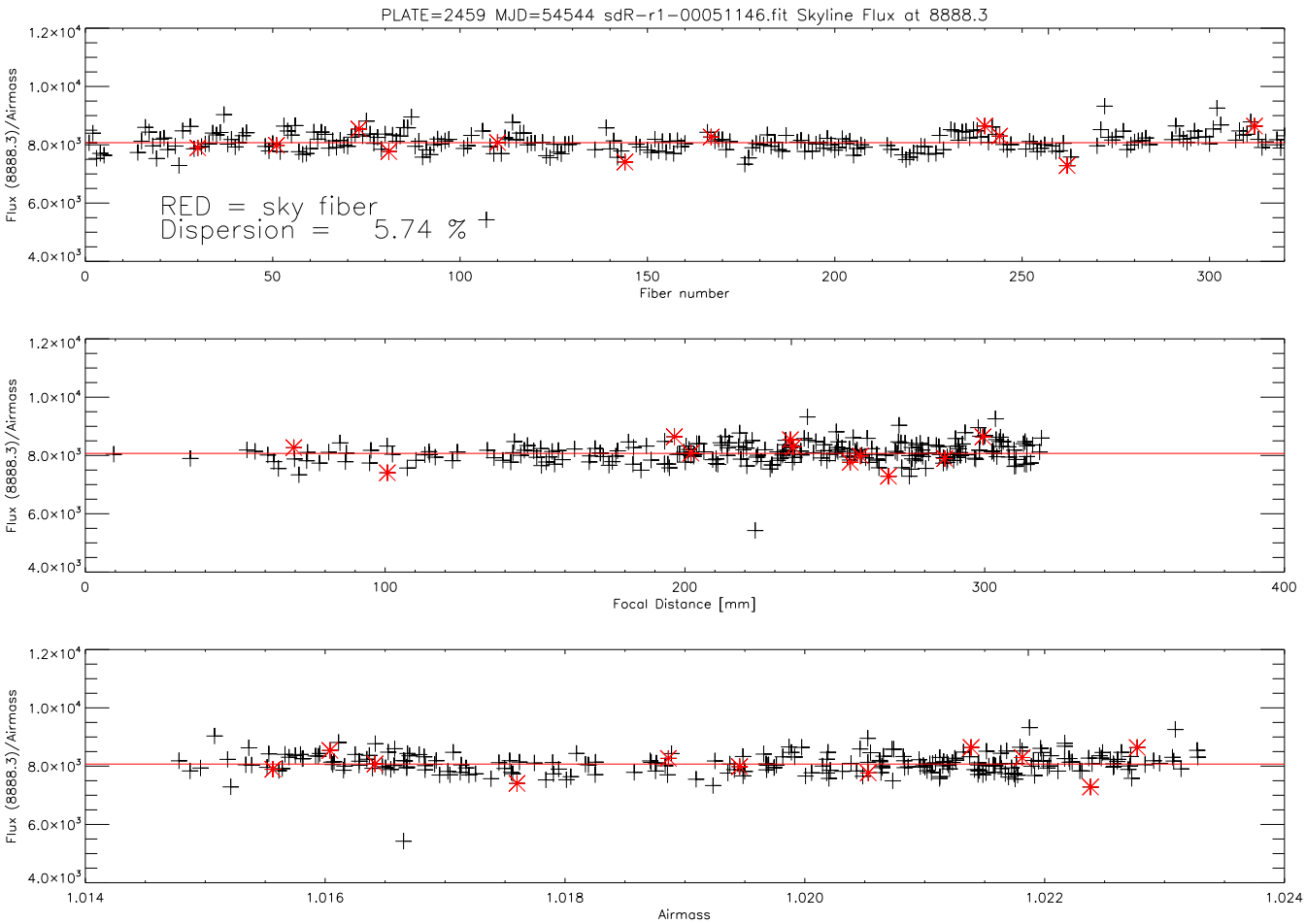

PLATE=2459 MJD=54544 sdR-r1-00051146.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

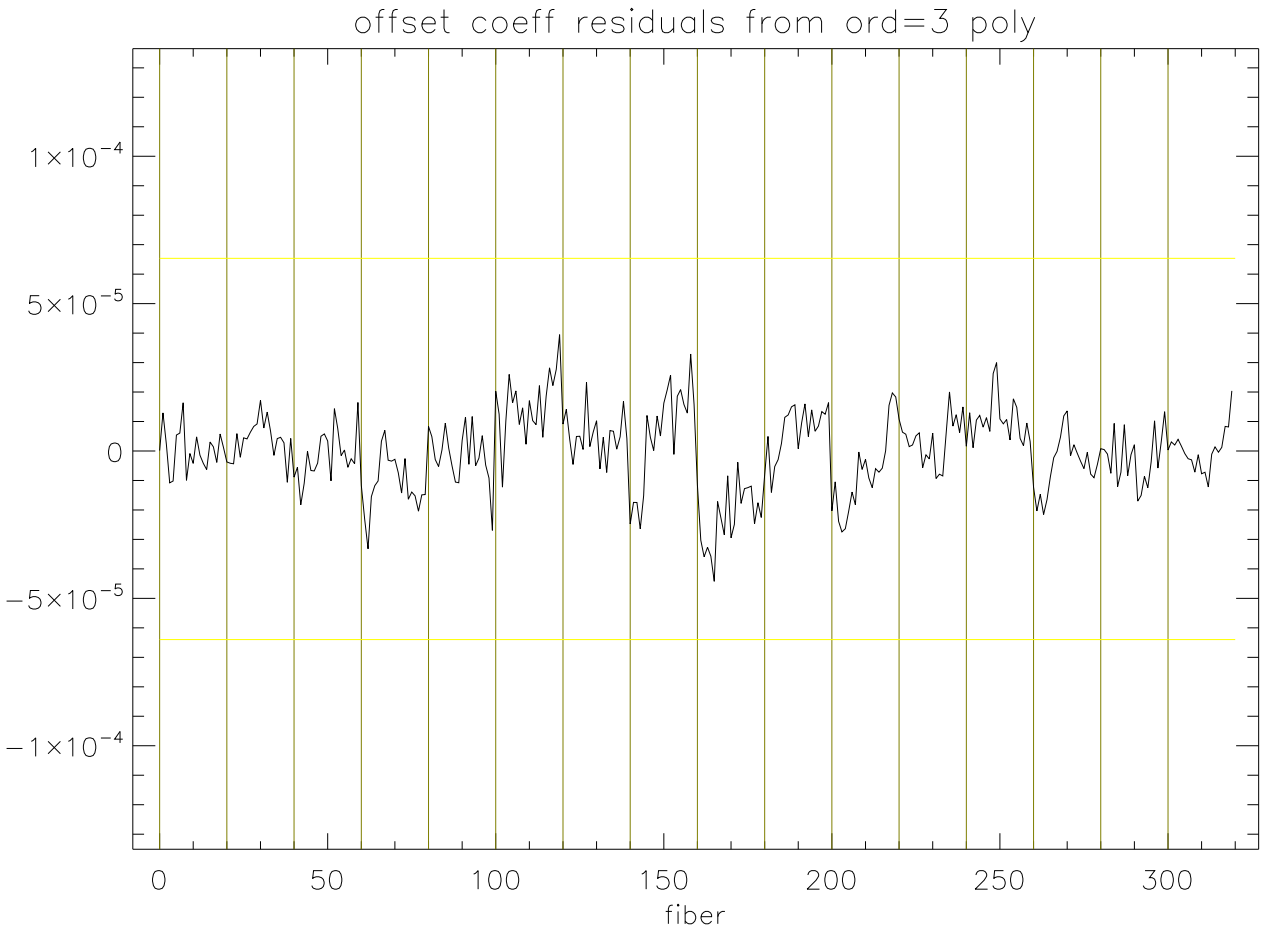

PLATE=2459 MJD=54544 sdR-r1-00051146.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

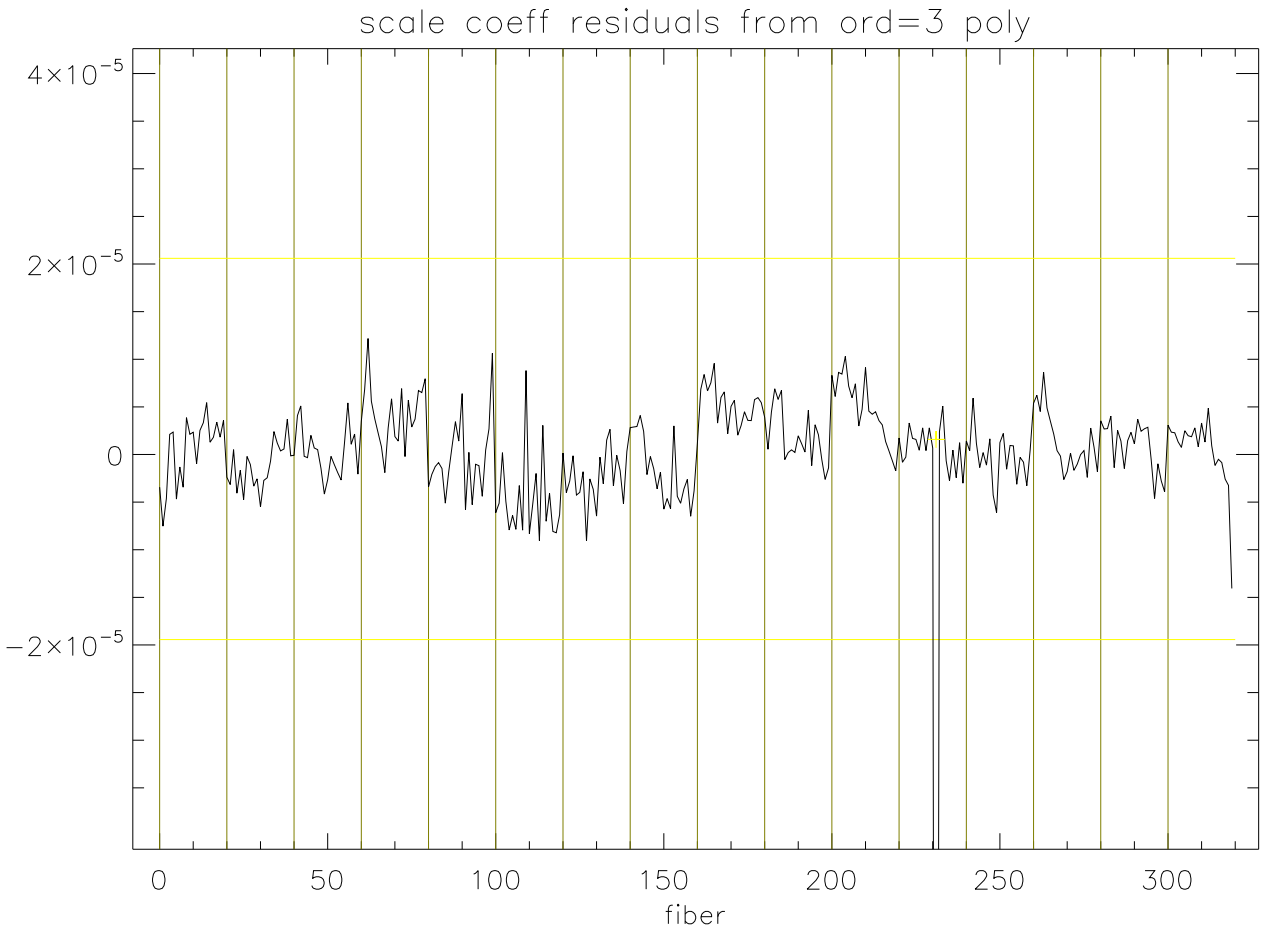

PLATE=2459 MJD=54544 sdR-r1-00051146.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
5000
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

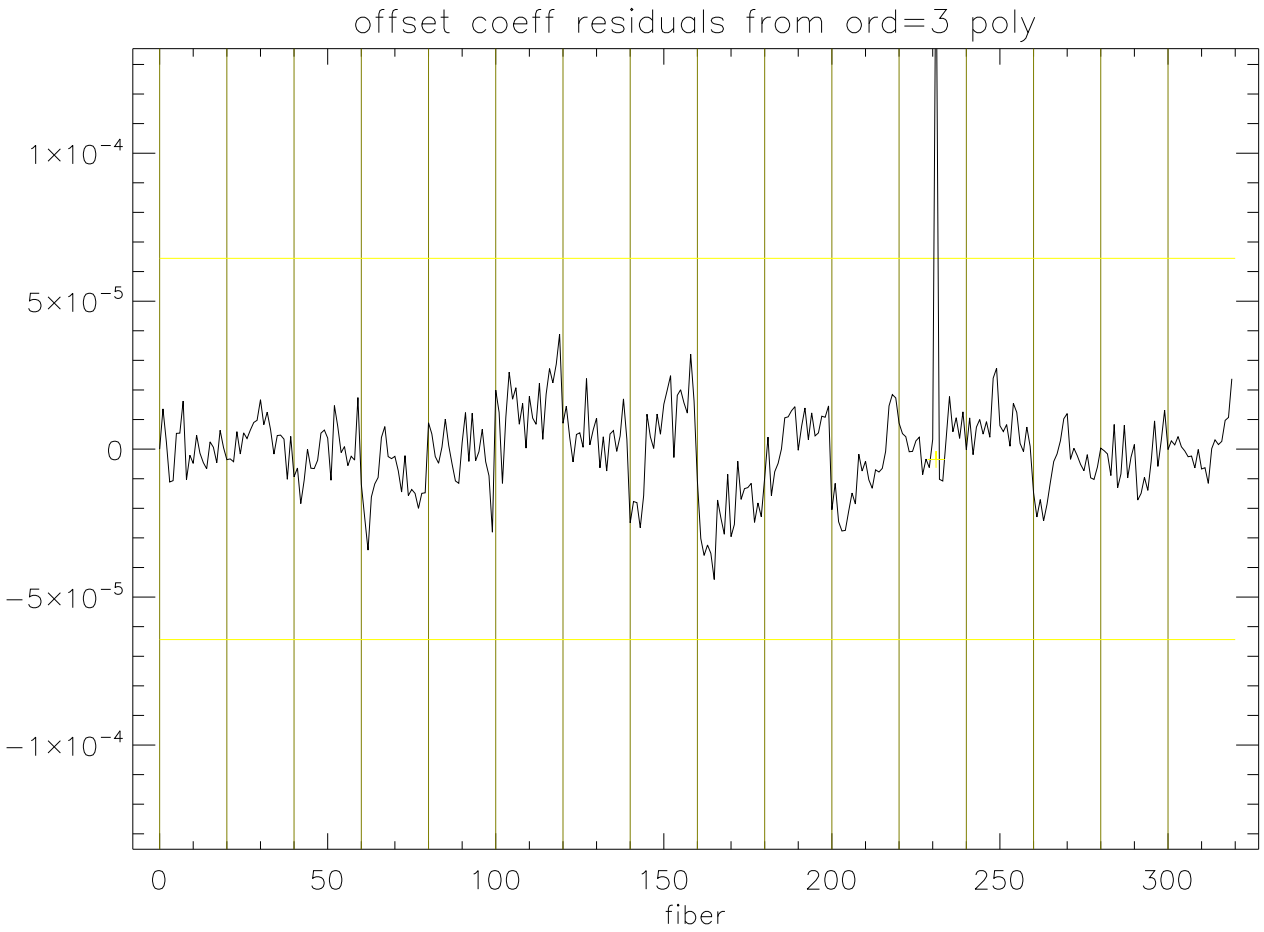

Number of sky fibers = 11
PLATE=2459 MJD=54544 sdR-r1-00051146.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

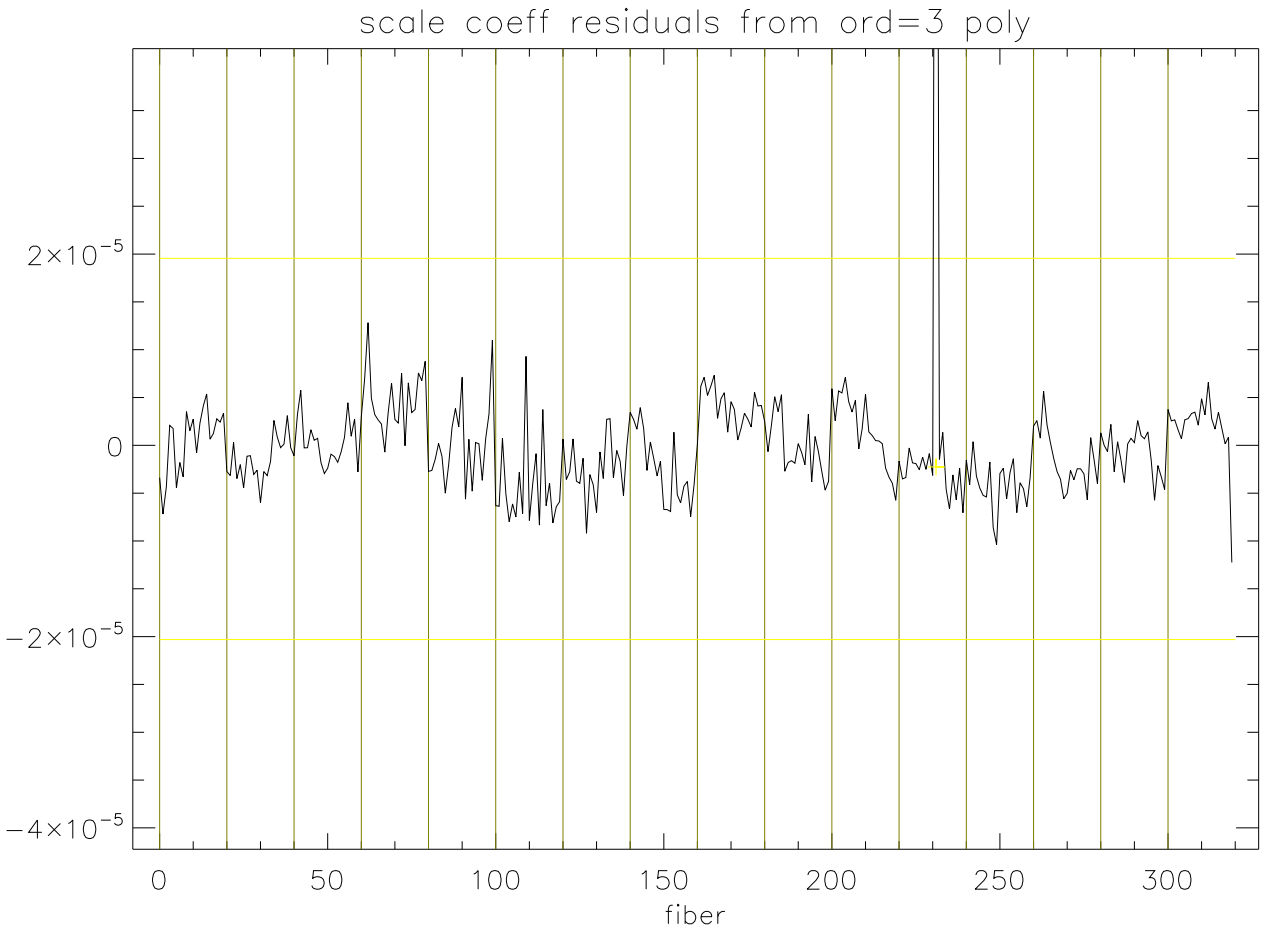

PLATE=2459 MJD=54544 sdR-r1-00051146.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.71 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

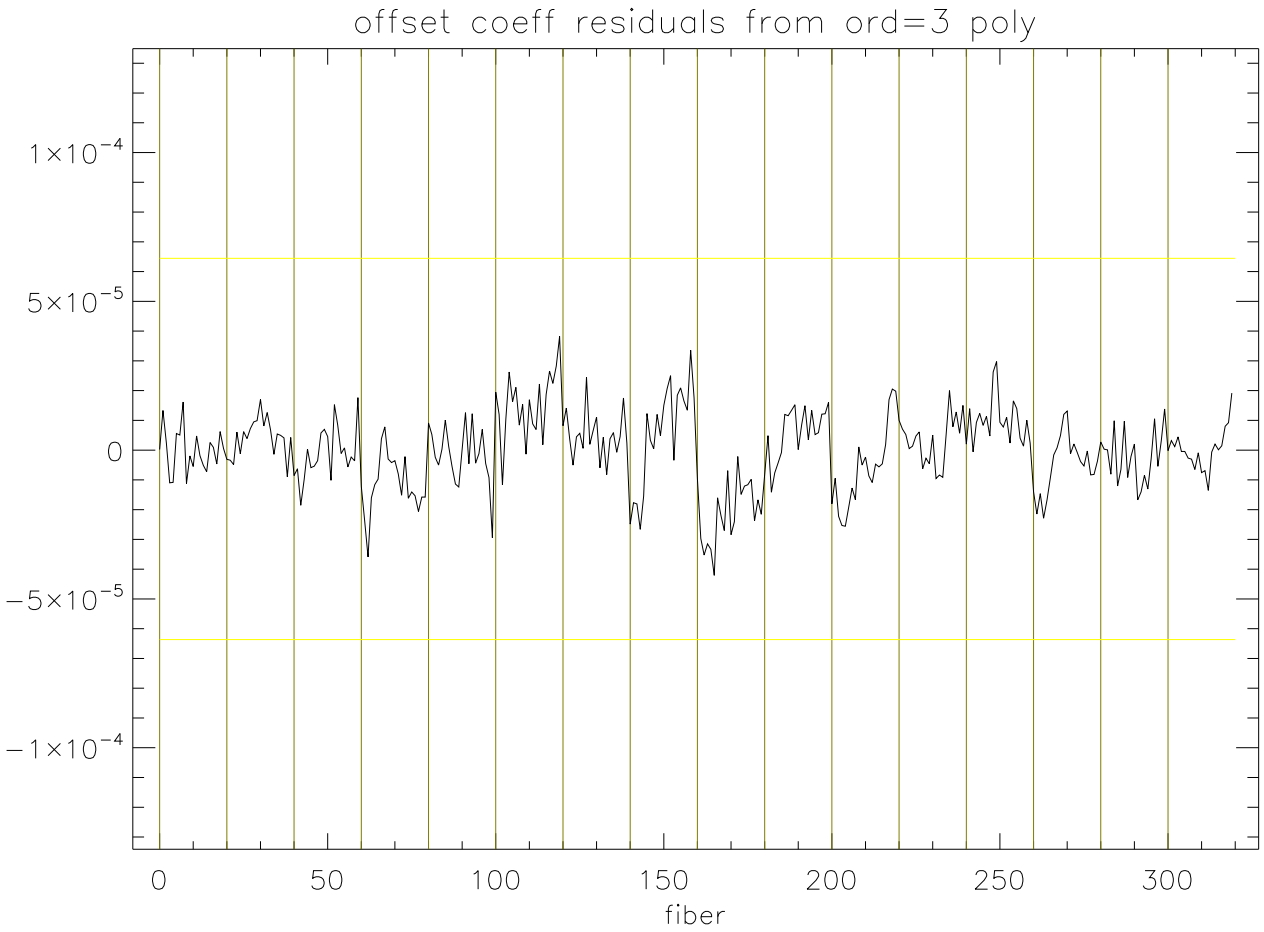

PLATE=2459 MJD=54544 sdR-r1-00051146.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 5.74 %
Fiber number
Focal Distance [mm]
Airmass

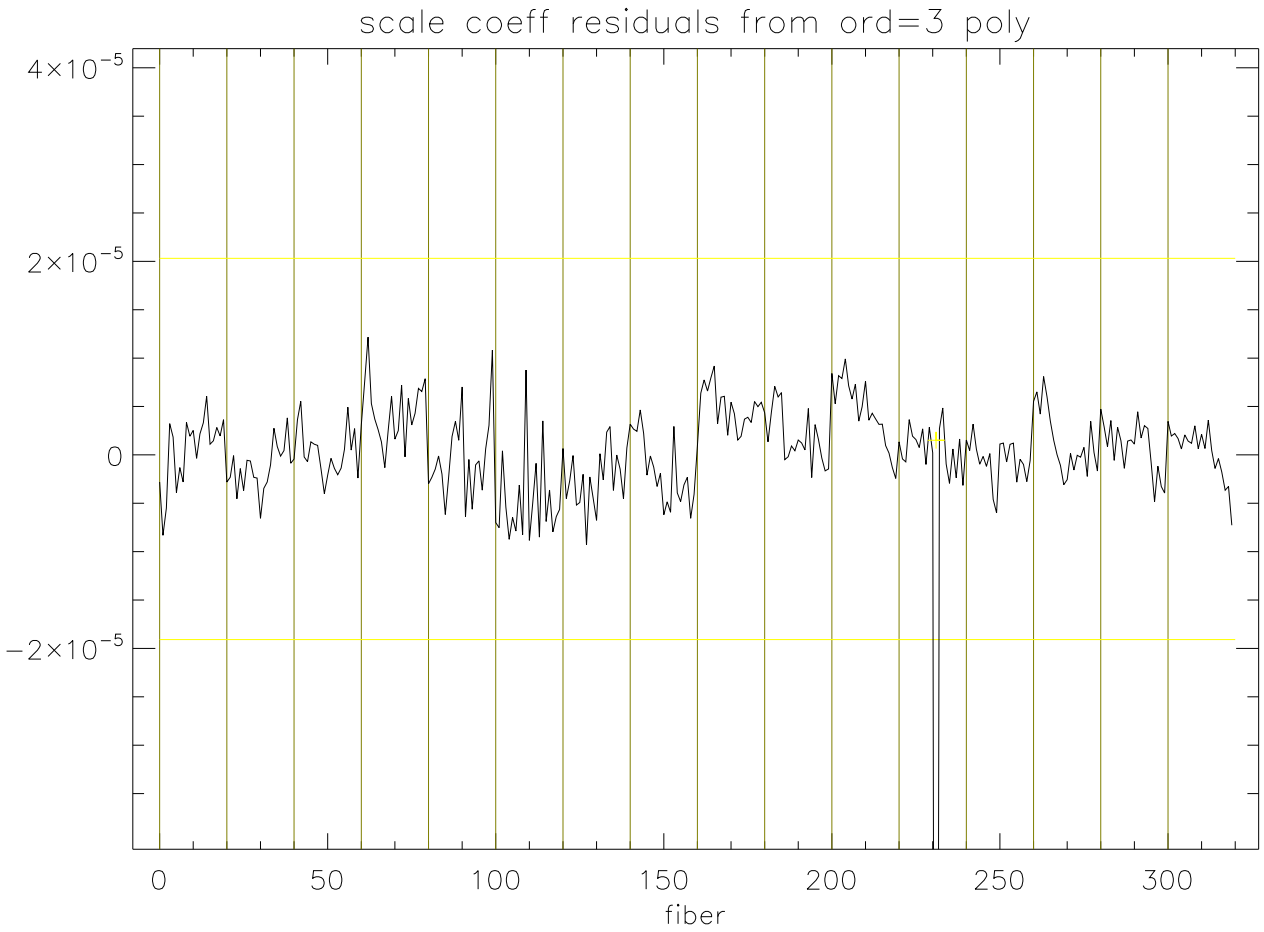

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

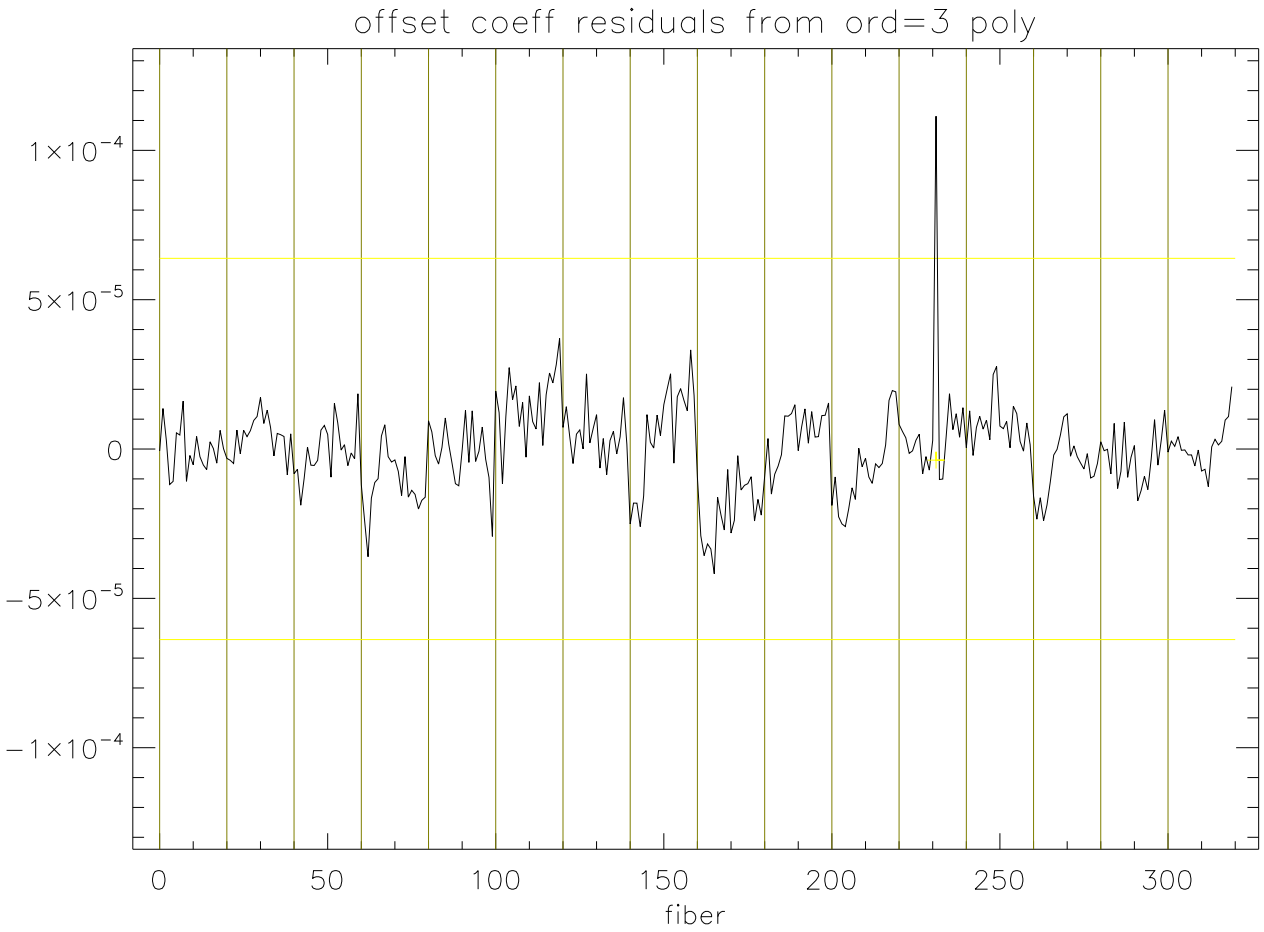

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

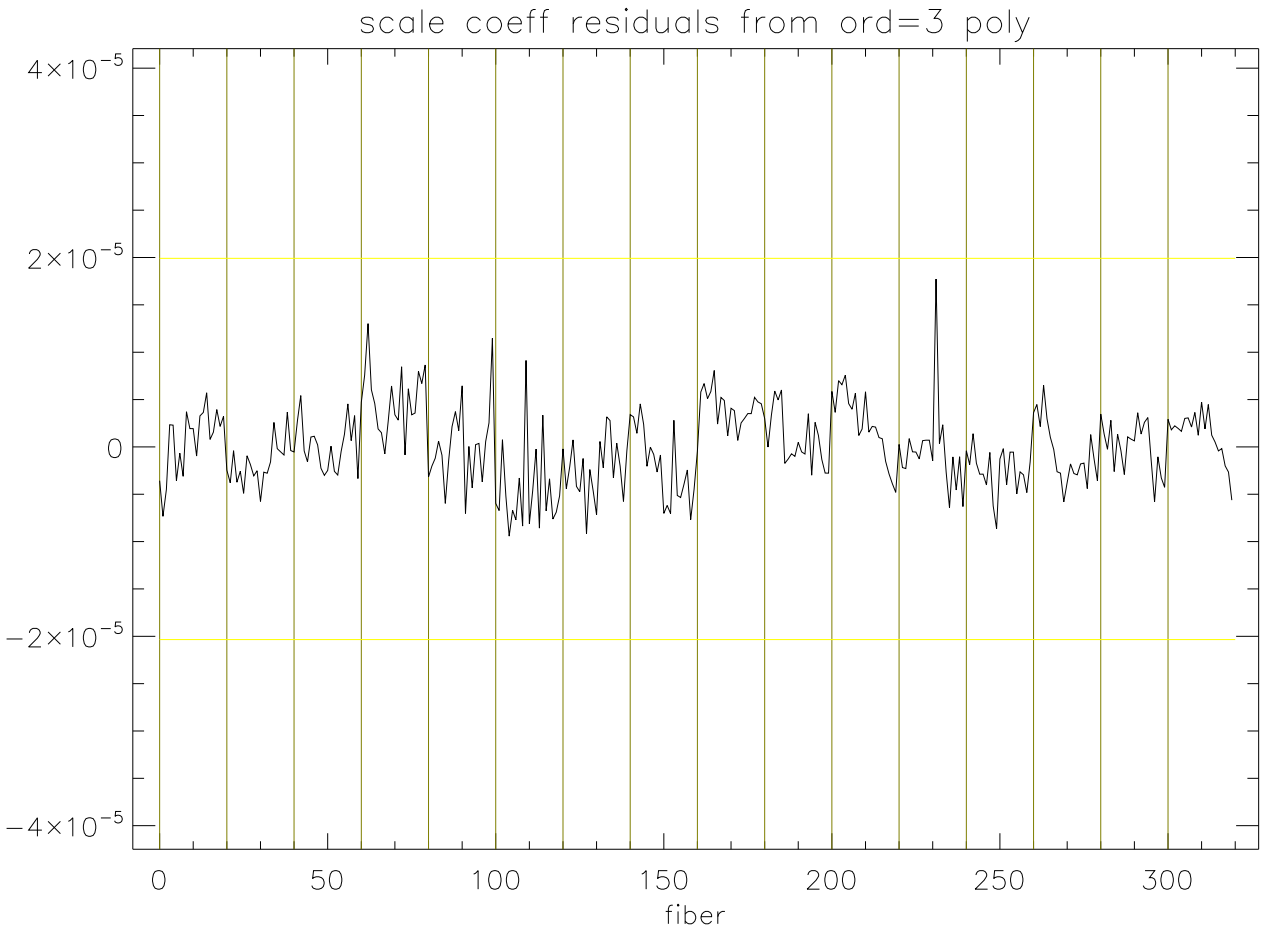

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

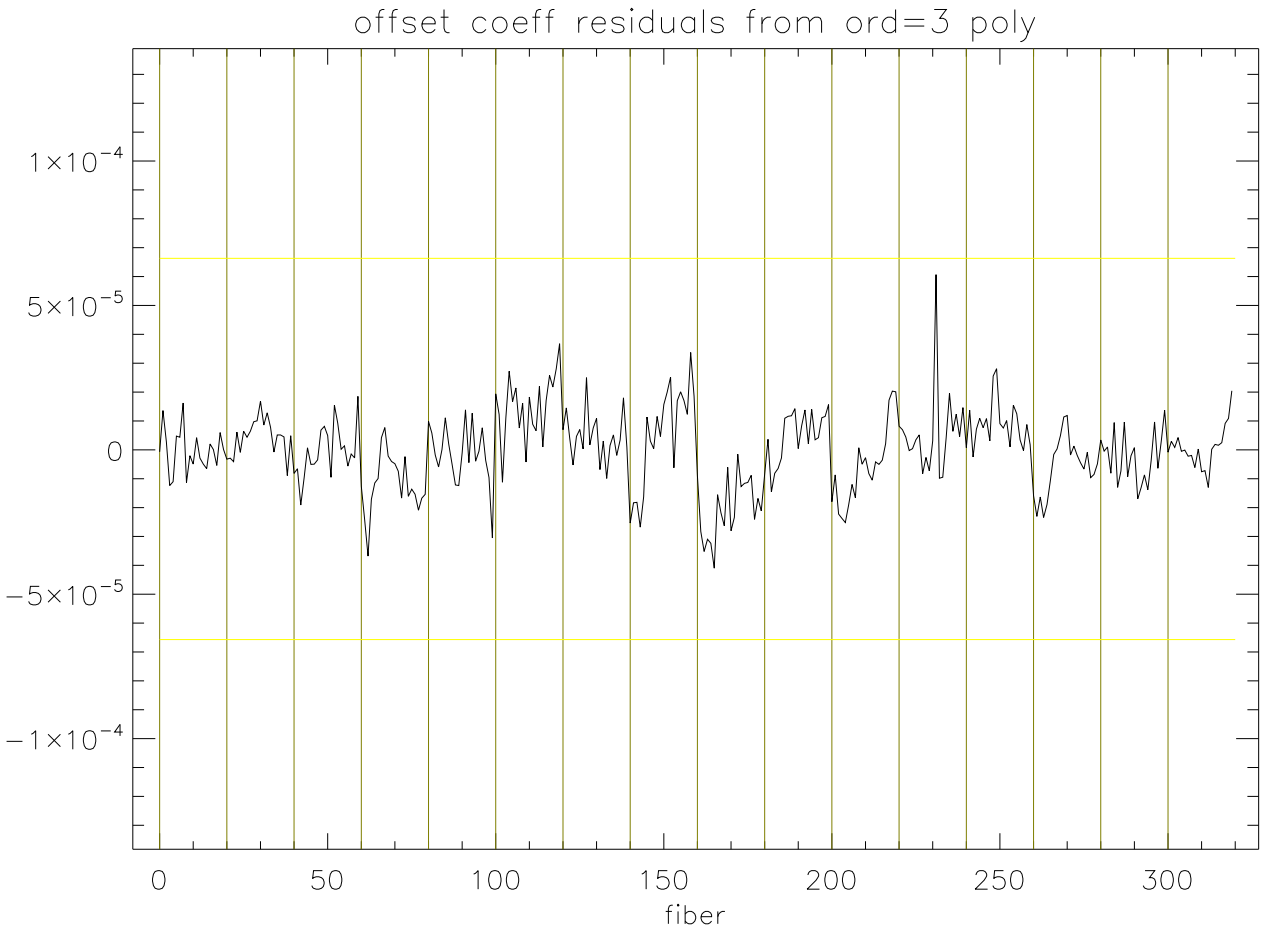

scale coeff residuals from ord=3 poly
2×10^-5
0
−2×10^-5
−4×10^-5
0
50
100
150
200
250
300
fiber

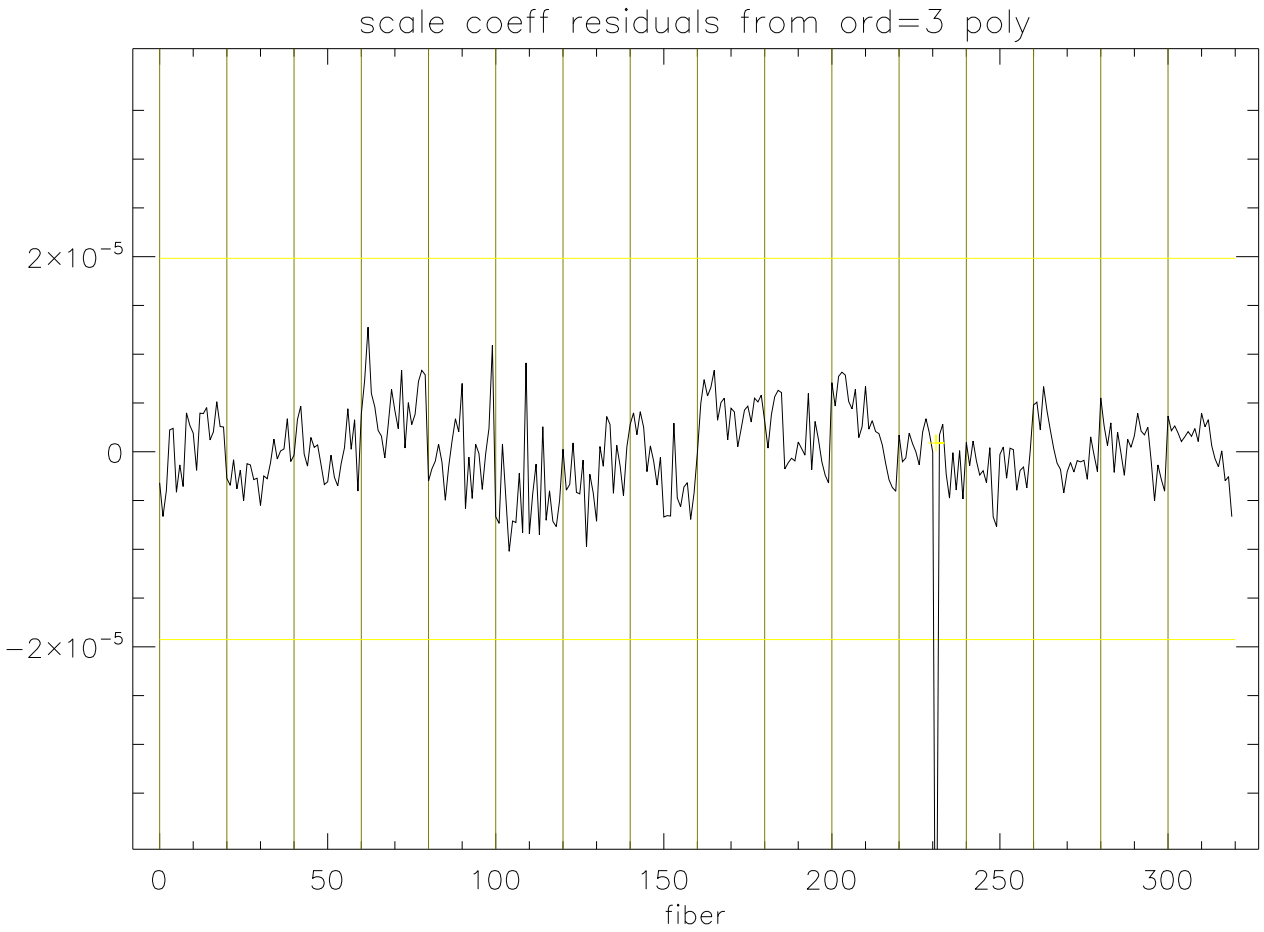

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

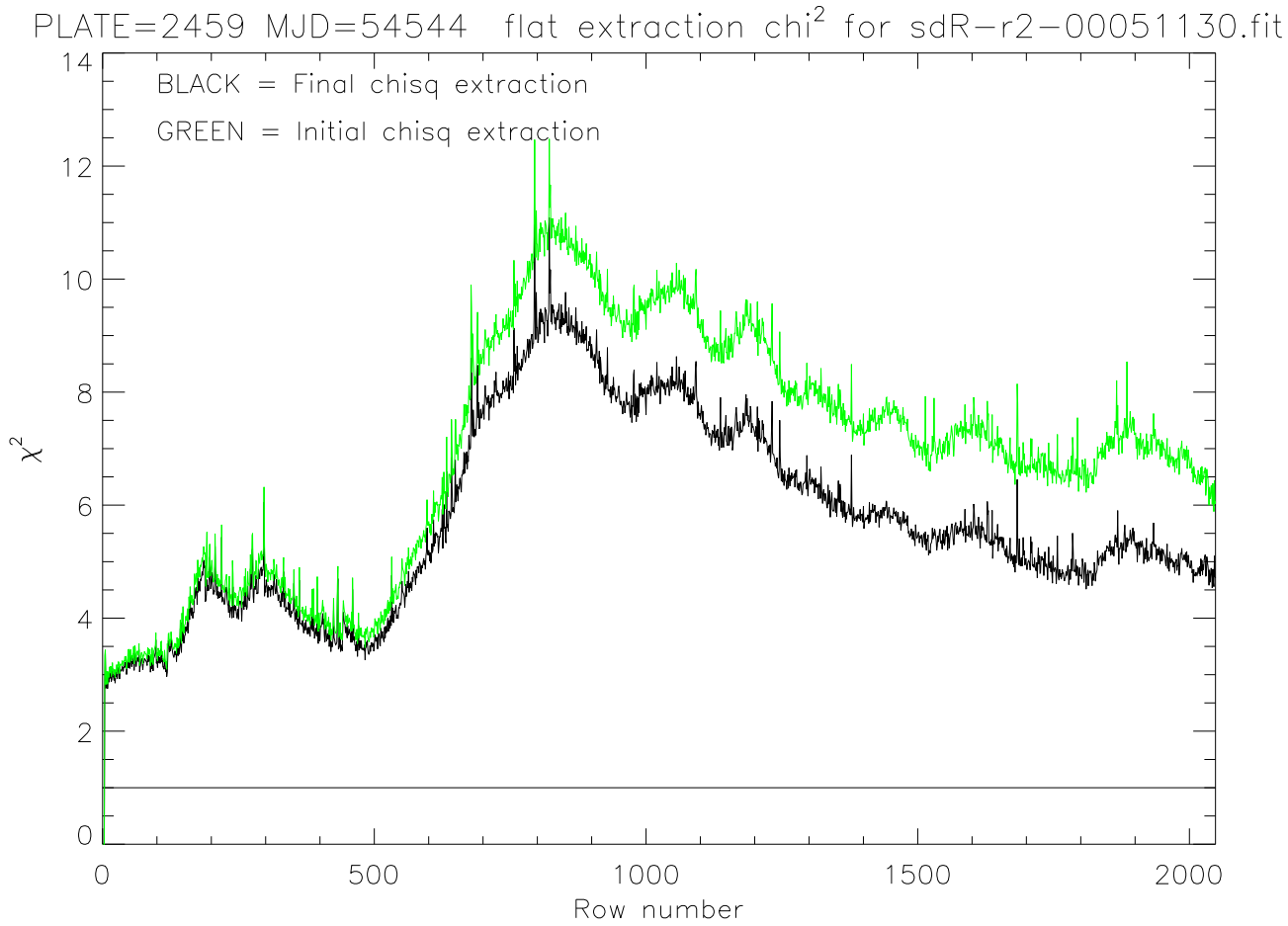

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

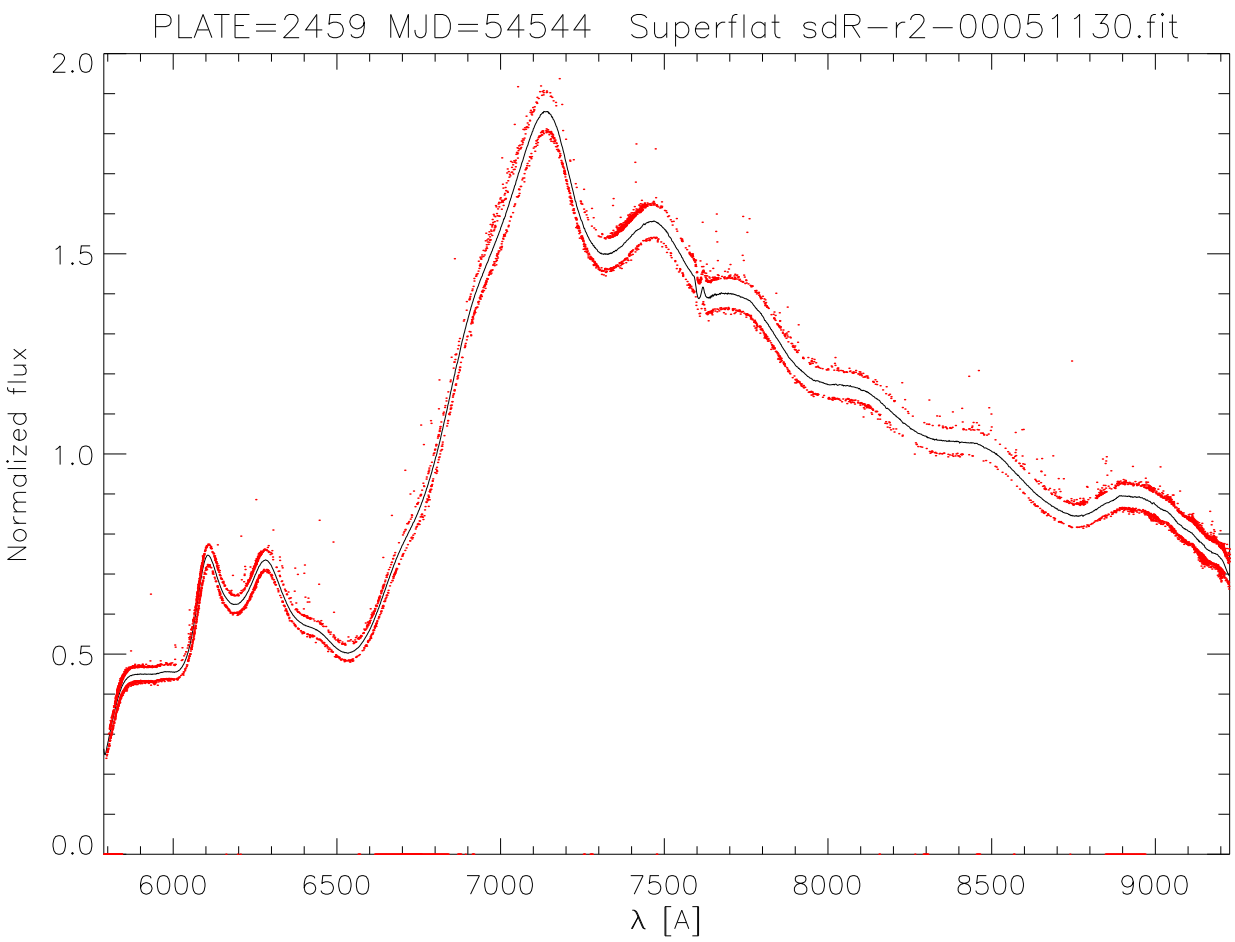

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

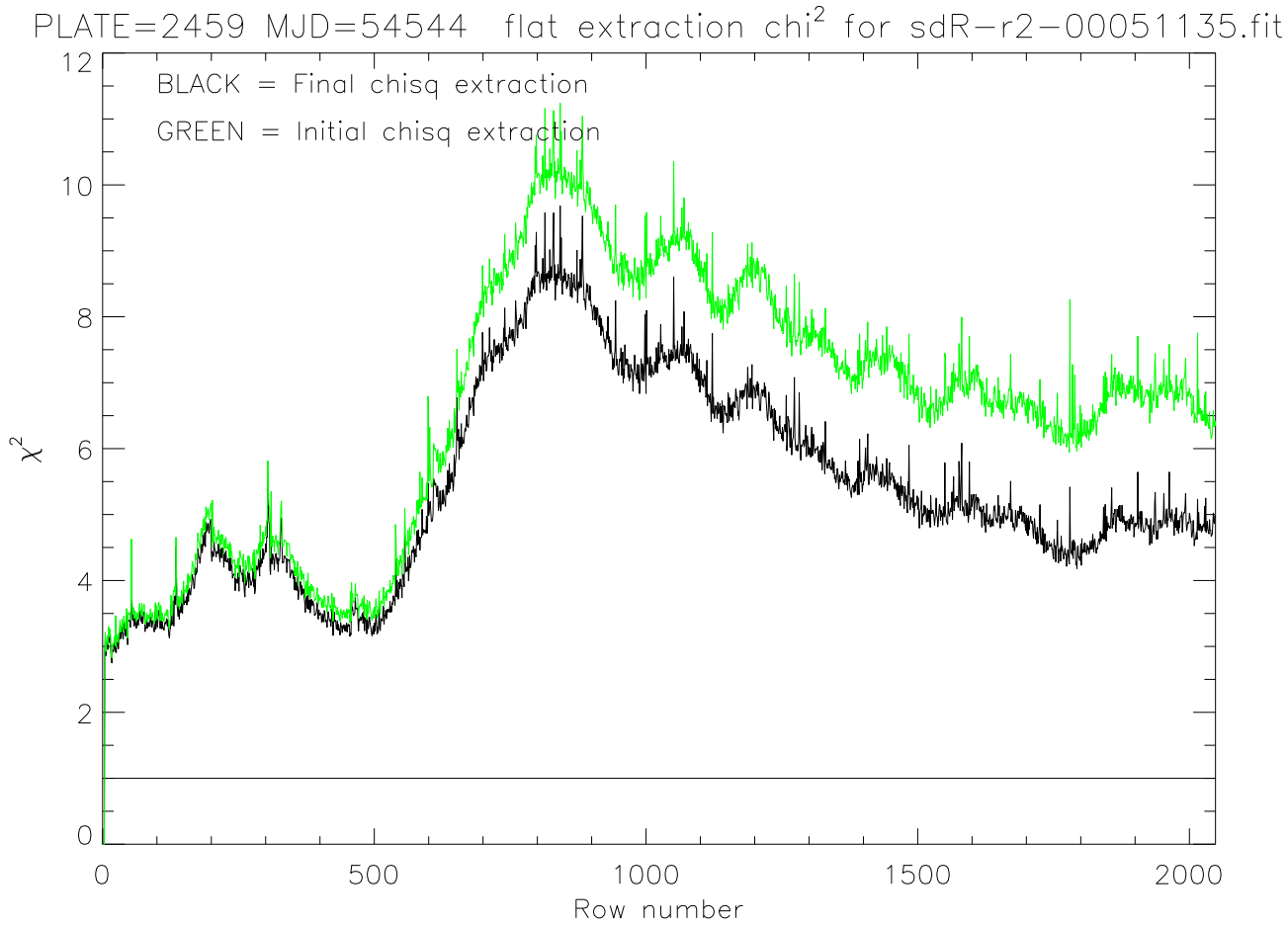

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

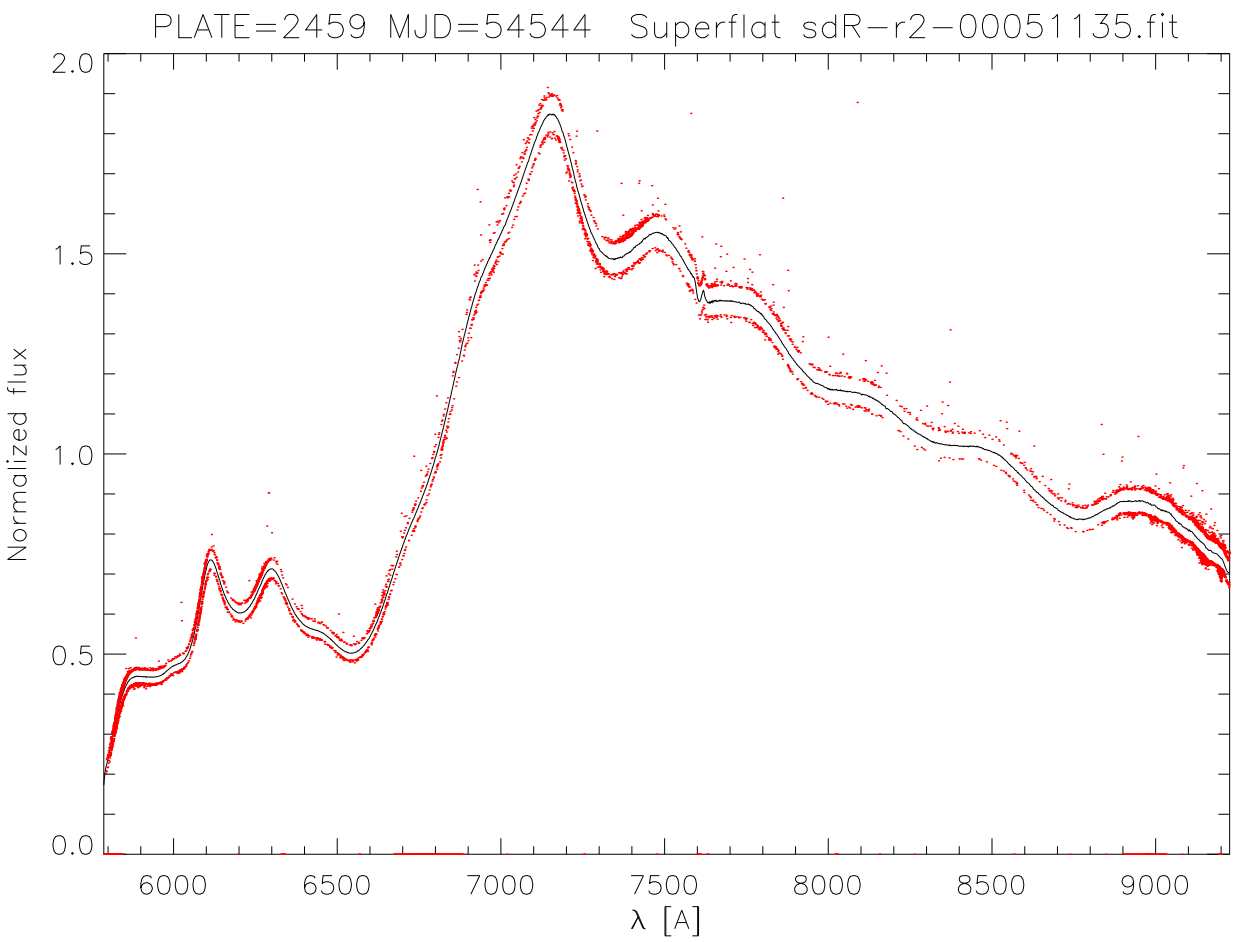

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

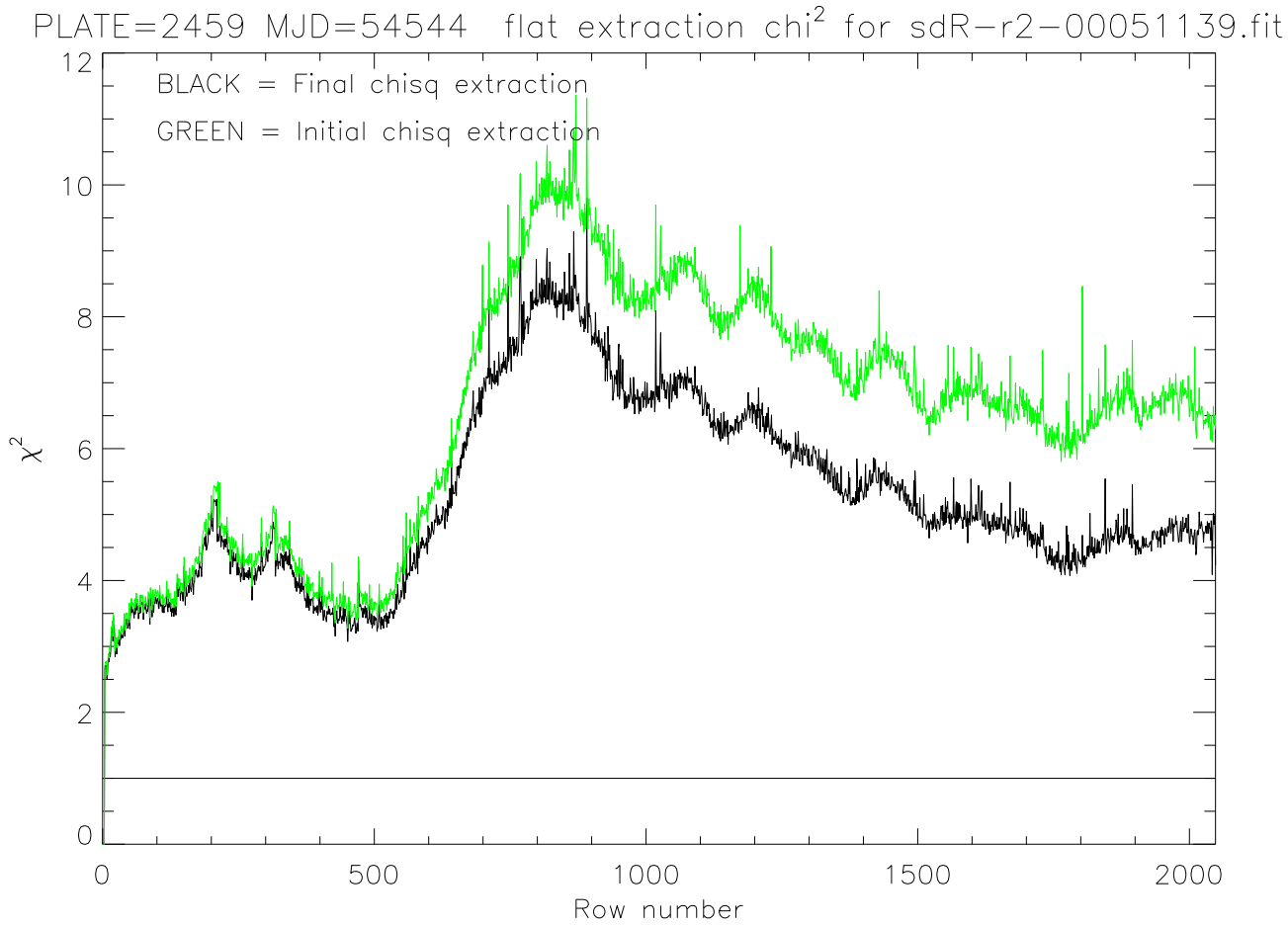

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

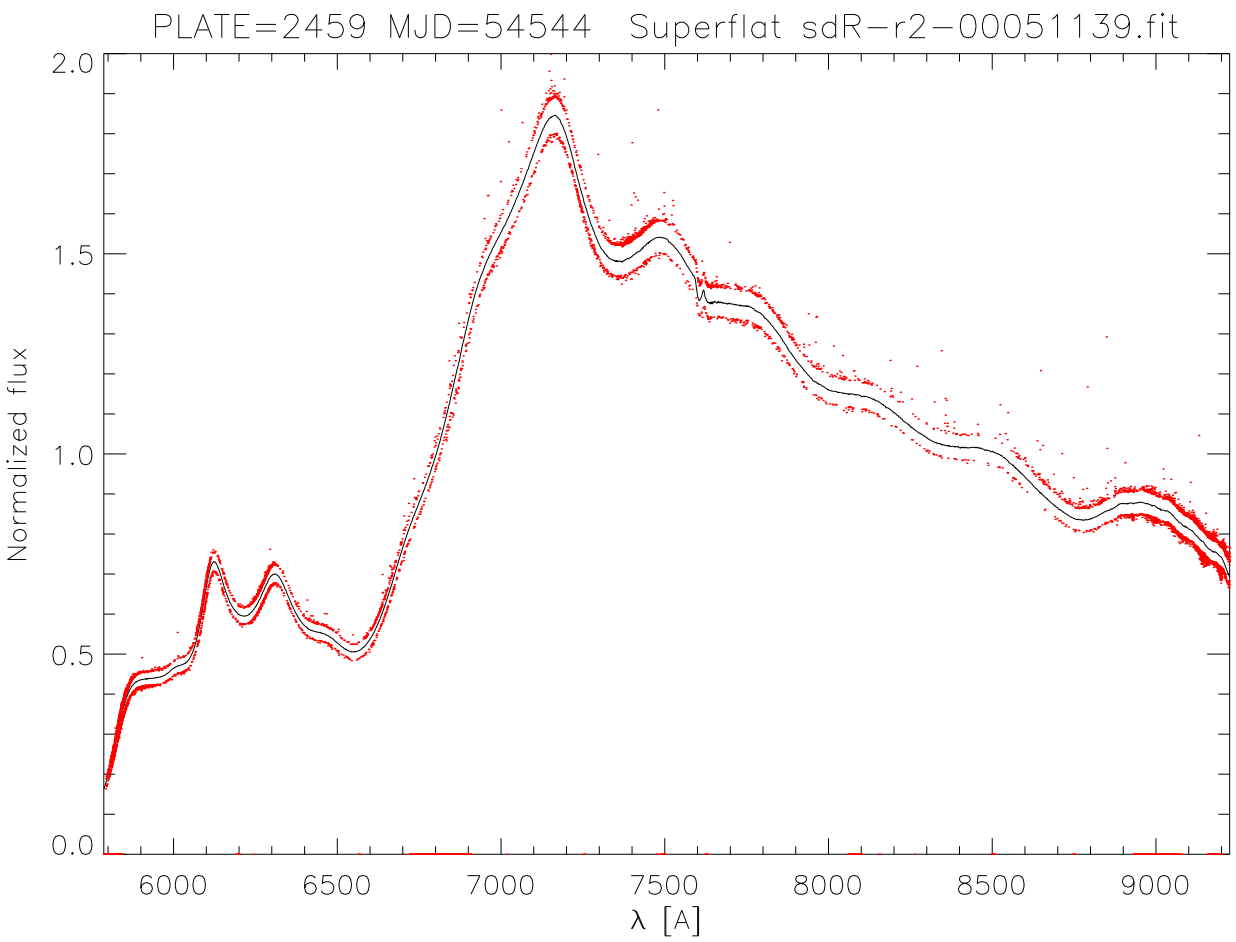

PLATE=2459 MJD=54544 flat extraction chi^2 for sdR−r2−00051130.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
14
0
500
1000
1500
2000

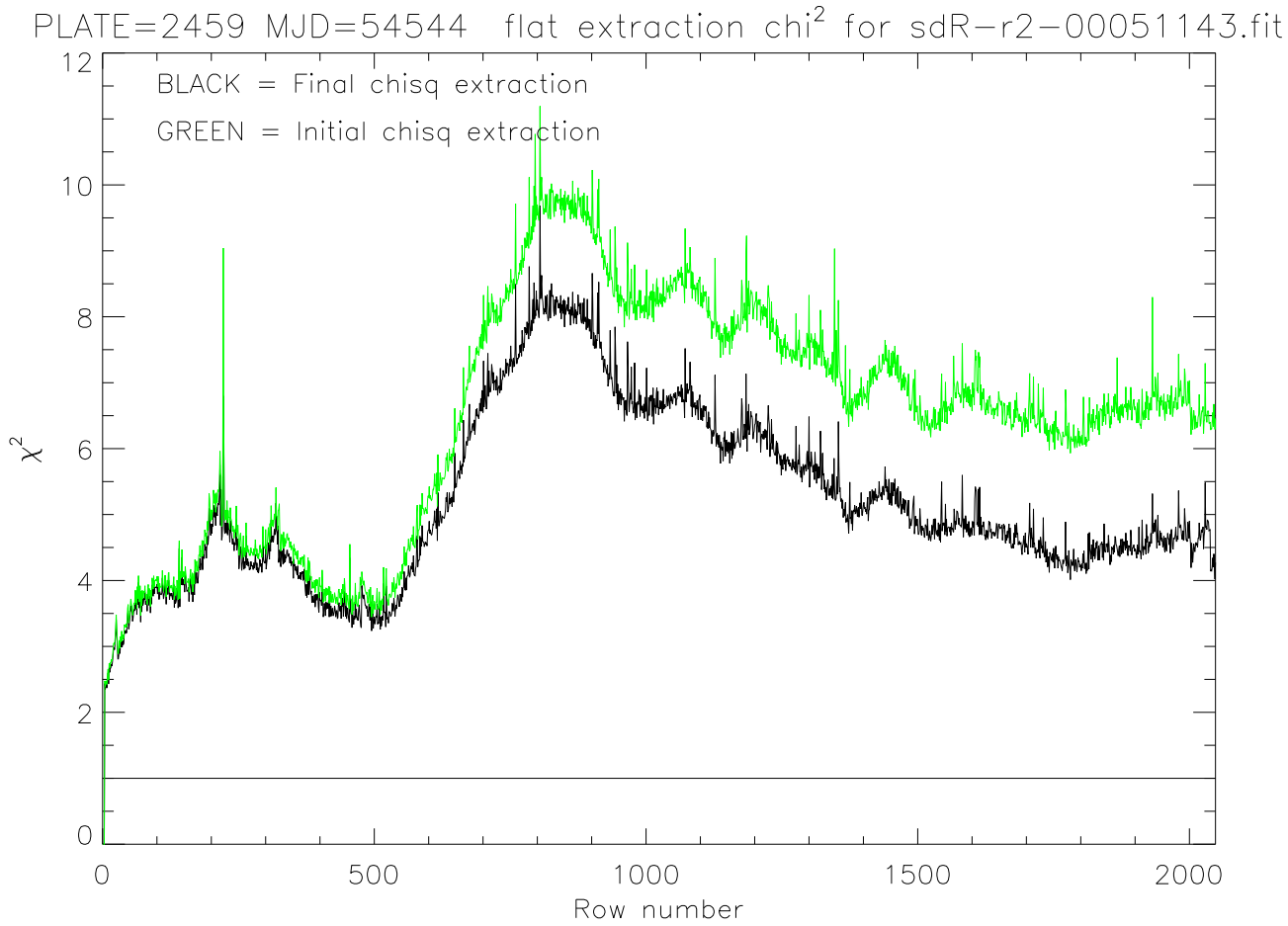

PLATE=2459 MJD=54544 Superflat sdR-r2-00051130.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

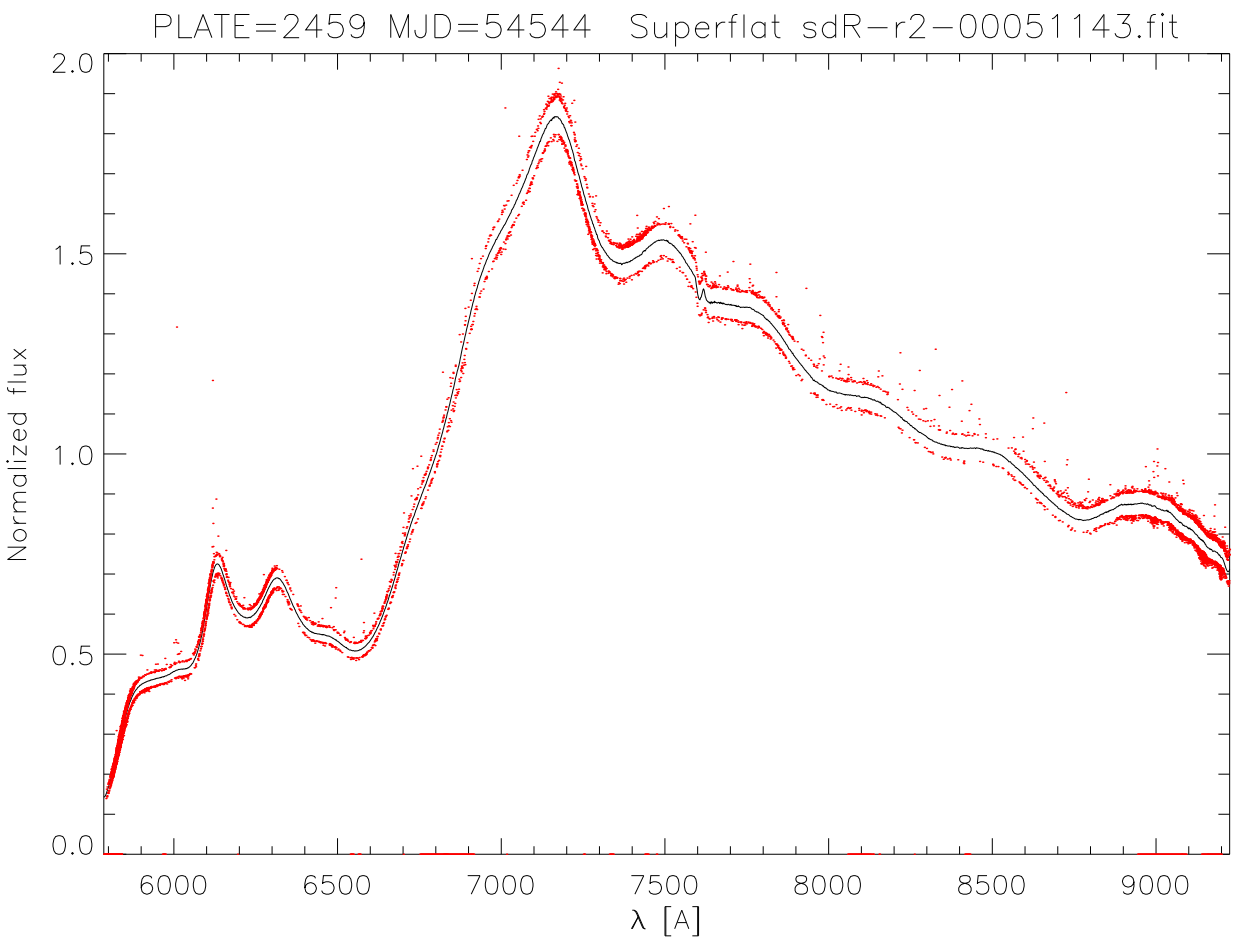

PLATE=2459 MJD=54544 flat extraction chi^2 for sdR−r2−00051135.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

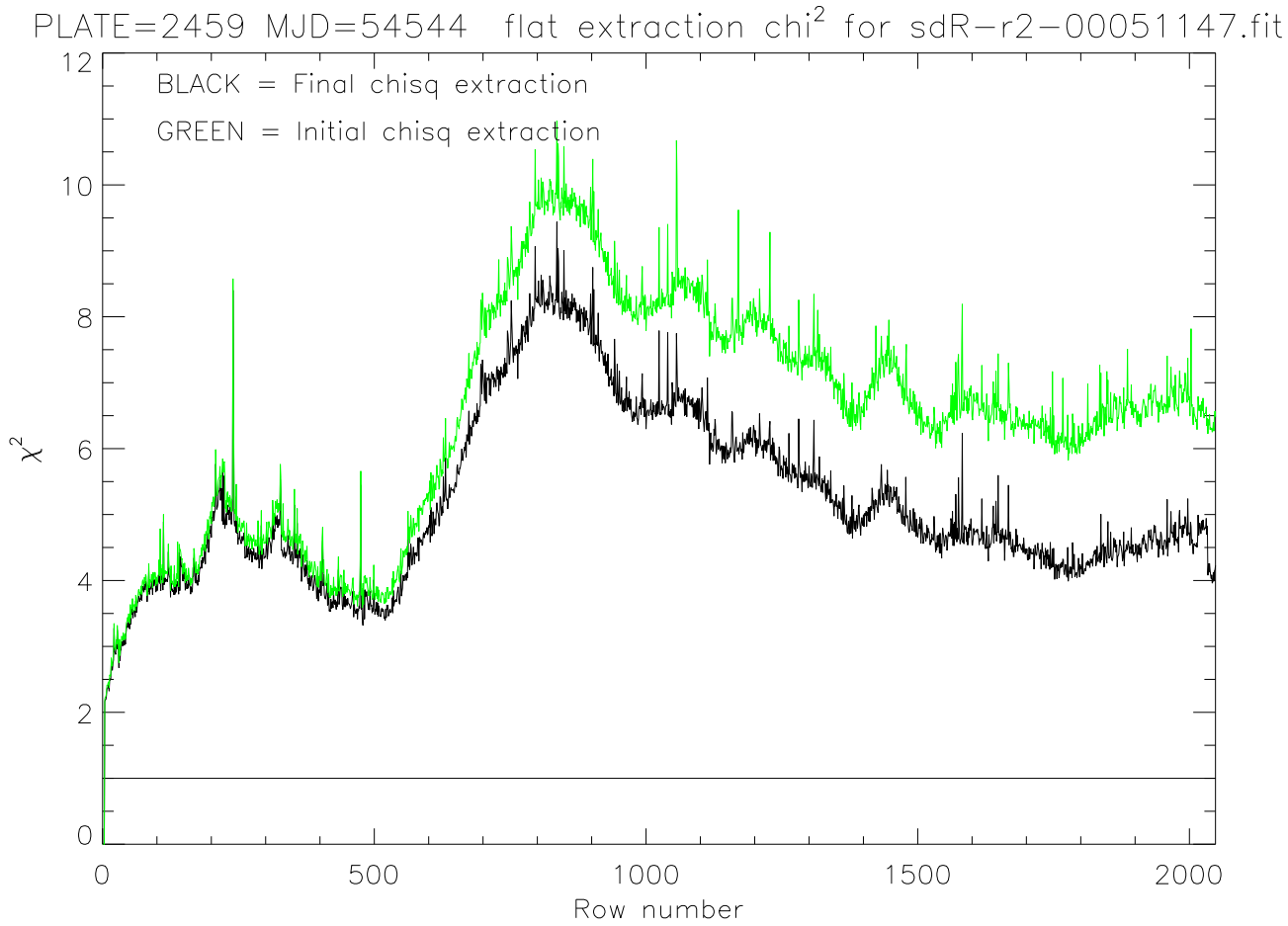

PLATE=2459 MJD=54544 Superflat sdR-r2-00051135.fit
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
6000
6500
7000
7500
8000
8500
9000

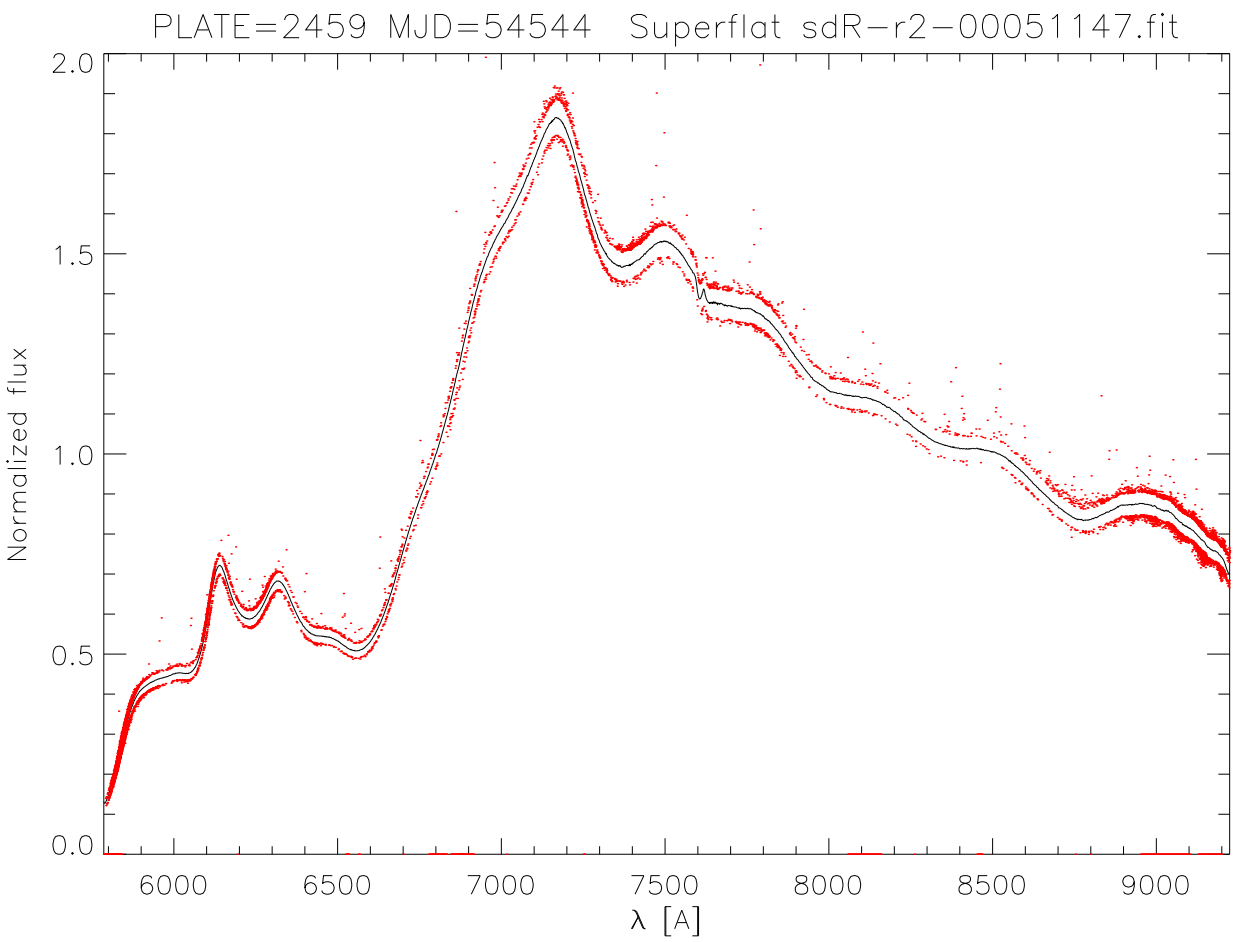

PLATE=2459 MJD=54544 flat extraction chi^2 for sdR−r2−00051139.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

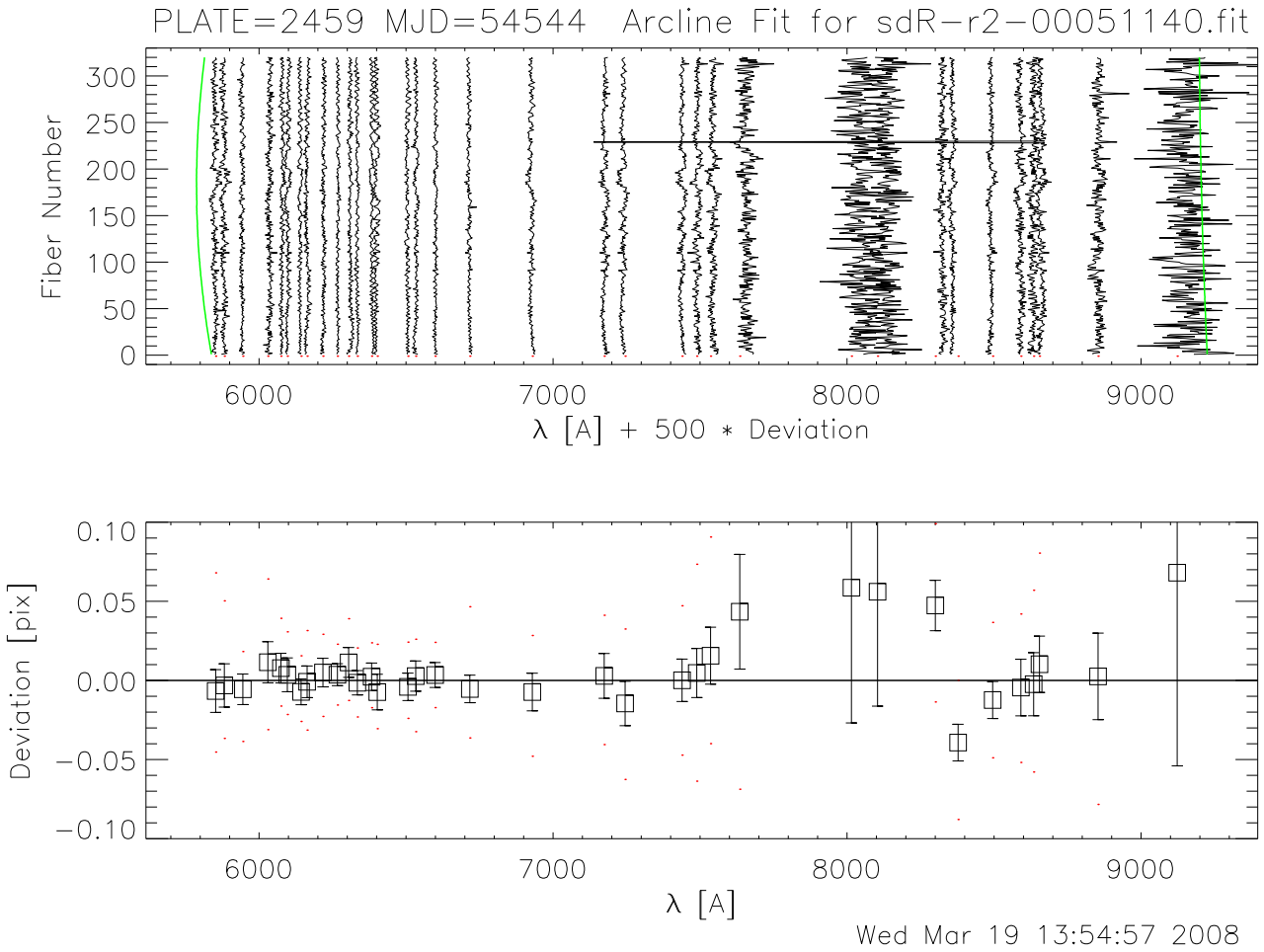

PLATE=2459 MJD=54544 Superflat sdR-r2-00051139.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

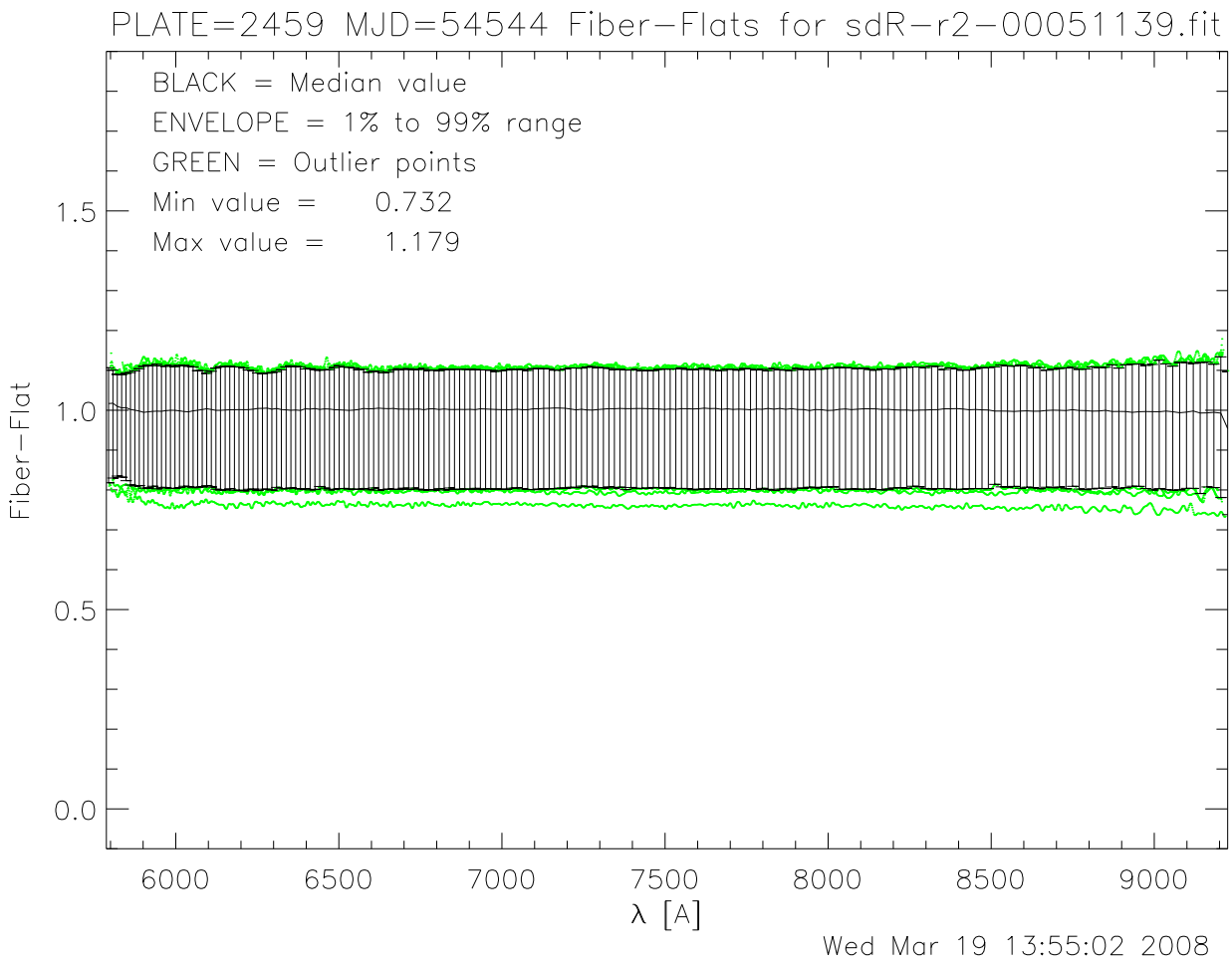

PLATE=2459 MJD=54544 flat extraction chi^2 for sdR−r2−00051143.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

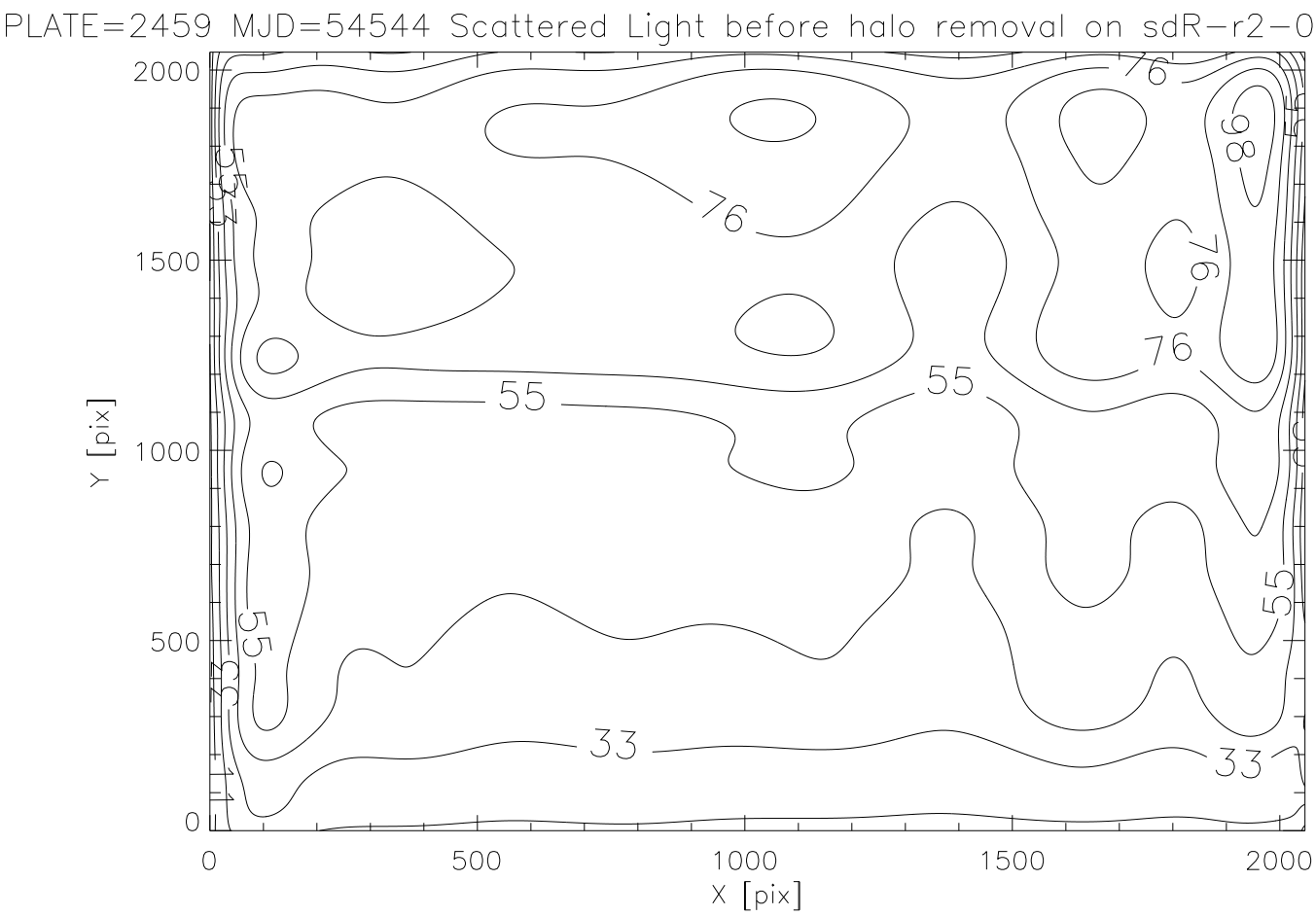

PLATE=2459 MJD=54544 Superflat sdR-r2-00051143.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

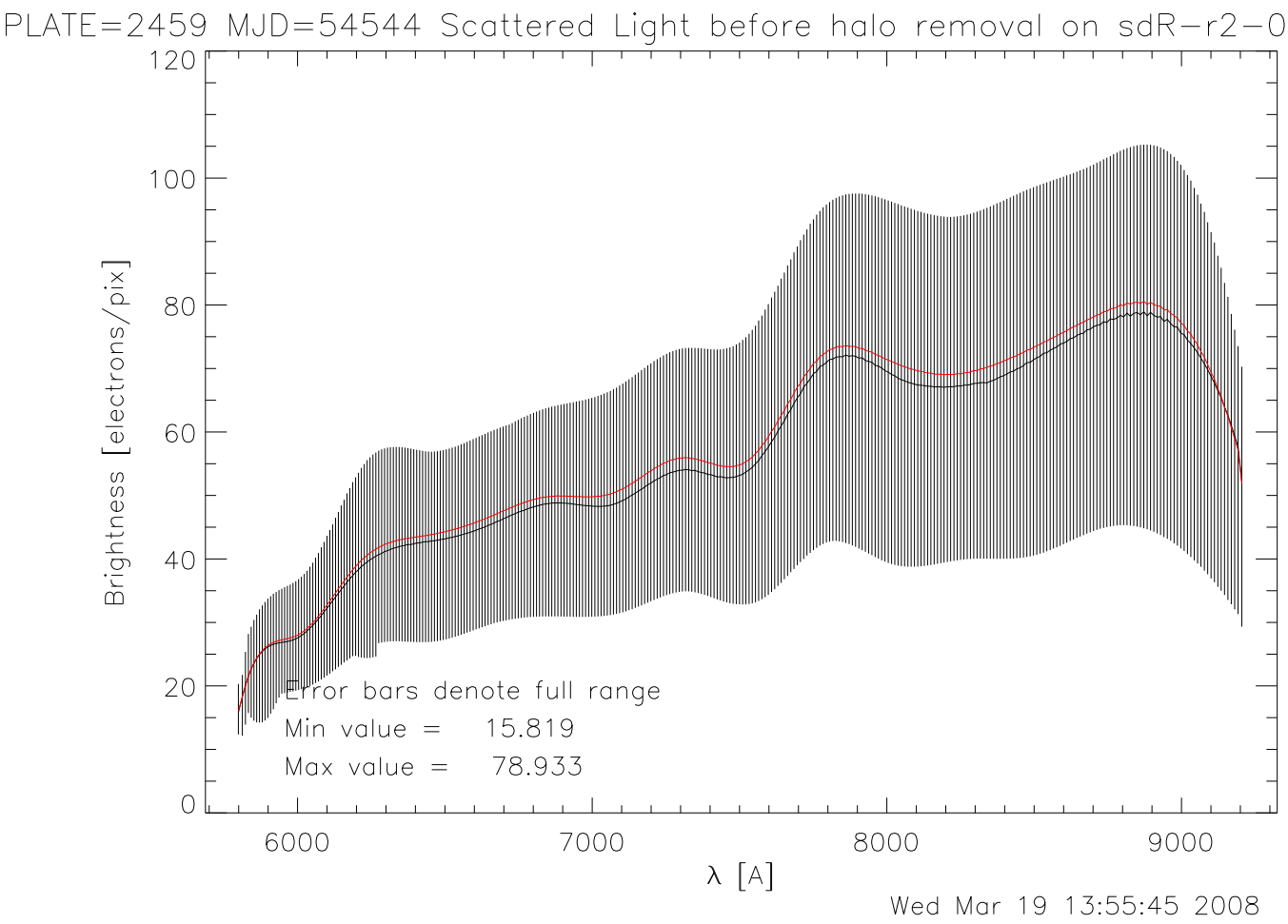

PLATE=2459 MJD=54544 flat extraction chi^2 for sdR−r2−00051147.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

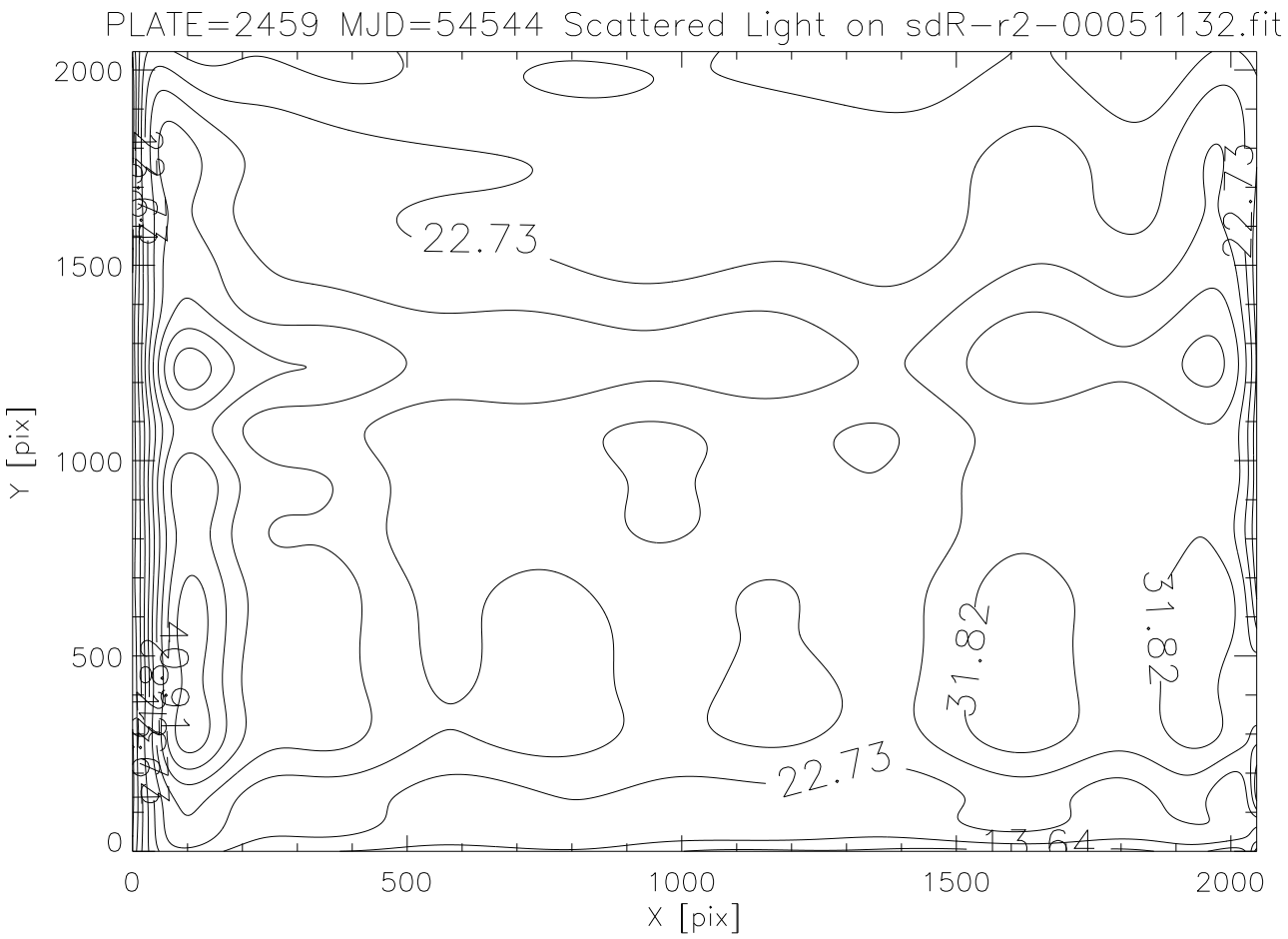

PLATE=2459 MJD=54544 Superflat sdR-r2-00051147.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

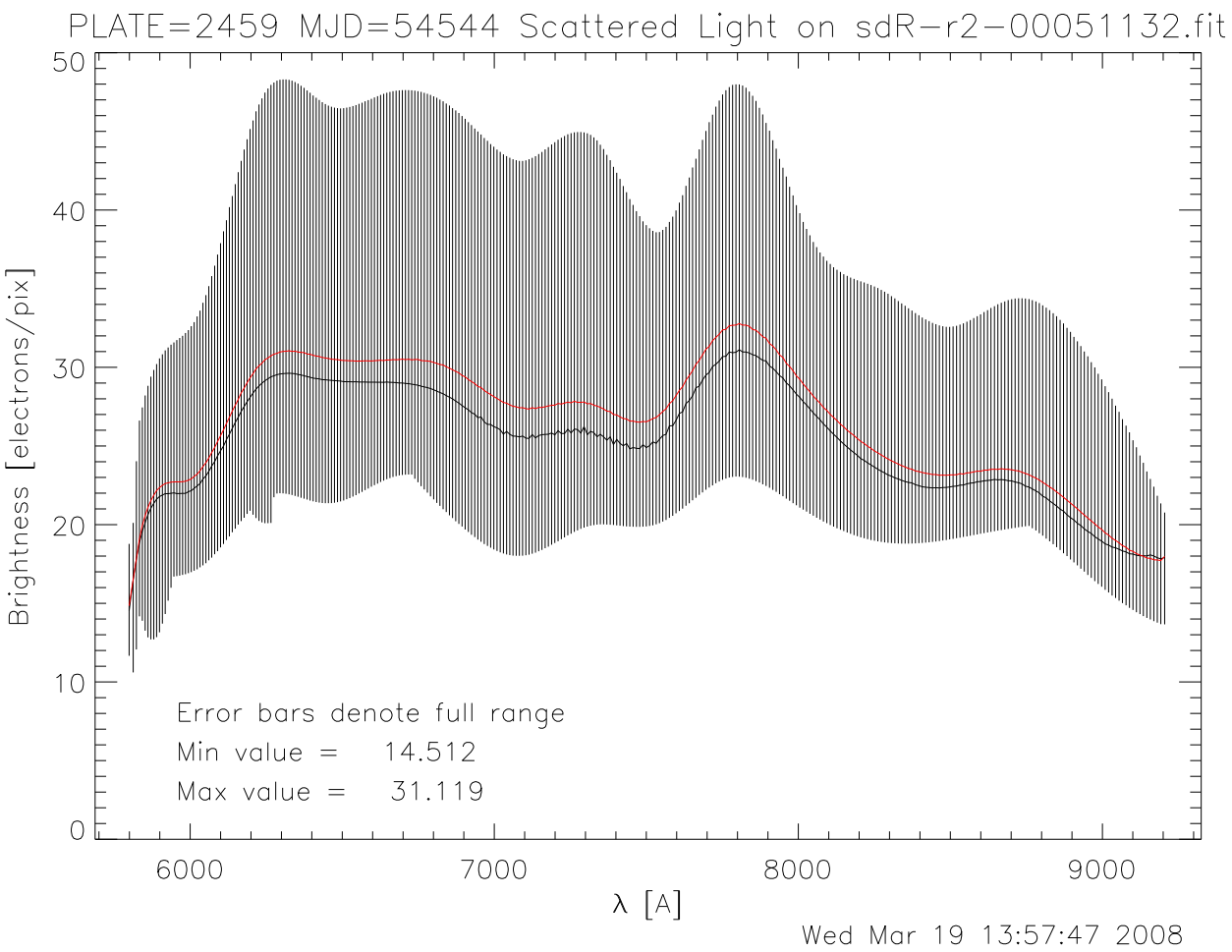

PLATE=2459 MJD=54544 Arcline Fit for sdR-r2-00051140.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Wed Mar 19 13:54:57 2008

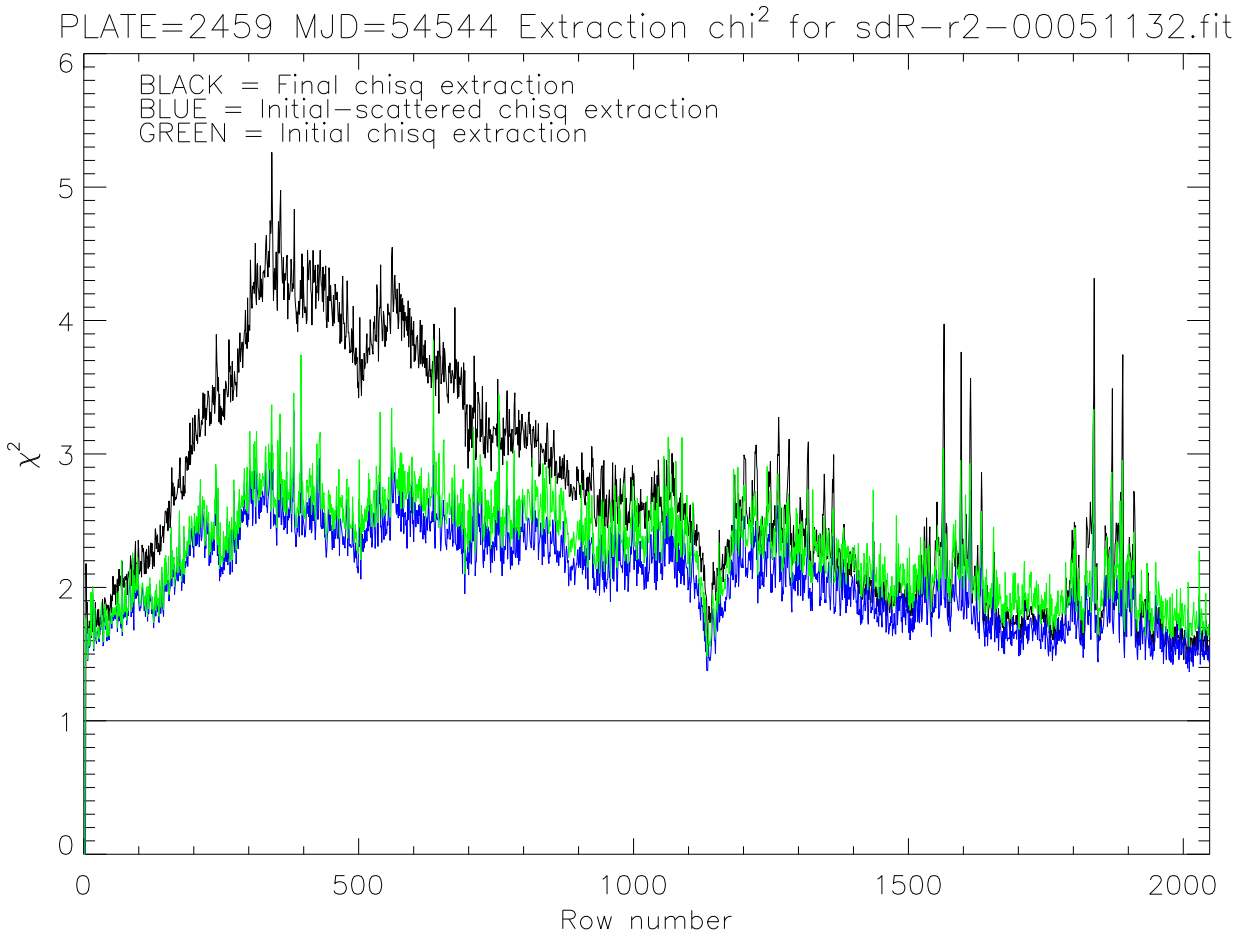

PLATE=2459 MJD=54544 Fiber−Flats for sdR−r2−00051139.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.732
Max value = 1.179
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 19 13:55:02 2008

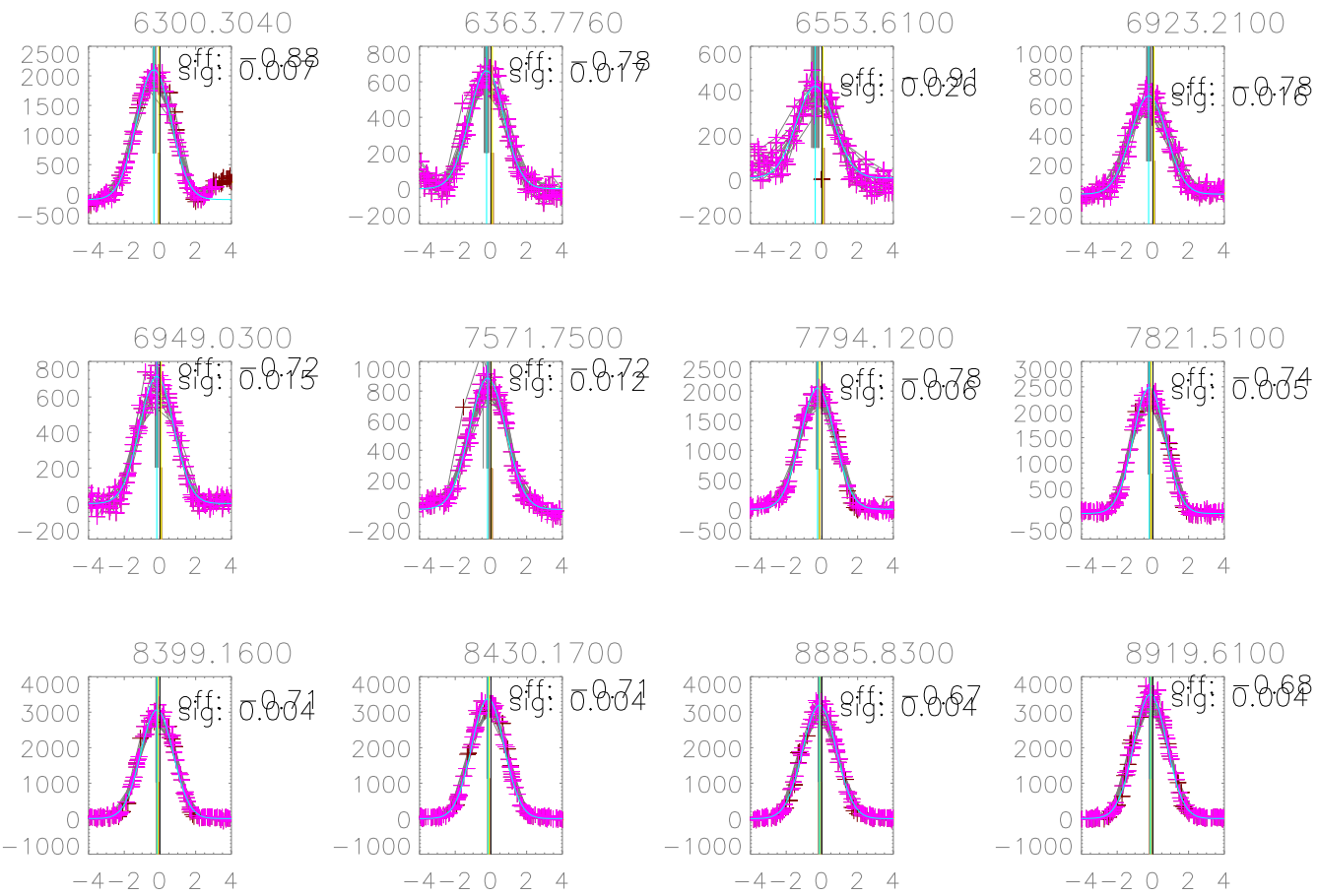

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-r2-00051132.fi
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
76
76
76
55
55
55
55
55
0
33
33

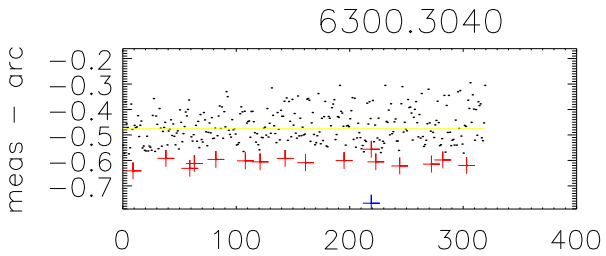

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-r2-00051132.fi
Brightness [electrons/pix]
120
100
80
60
40
20
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 15.819
Max value = 78.933
Wed Mar 19 13:55:45 2008

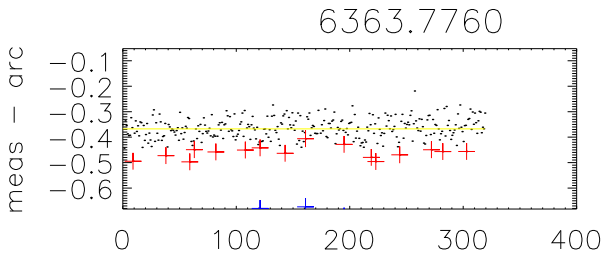

PLATE=2459 MJD=54544 Scattered Light on sdR-r2-00051132.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
22.73
22.73
22.73
31.82
31.82
13.64

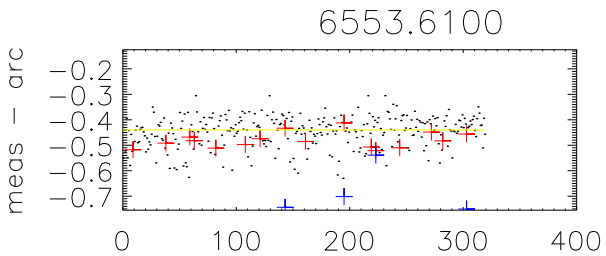

PLATE=2459 MJD=54544 Scattered Light on sdR-r2-00051132.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 14.512
Max value = 31.119
Wed Mar 19 13:57:47 2008

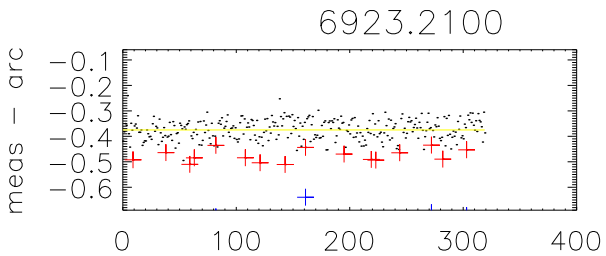

PLATE=2459 MJD=54544 Extraction chi^2 for sdR-r2-00051132.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
6
0
500
1000
1500
2000

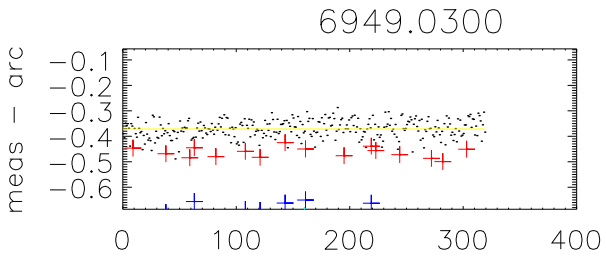

6300.3040
off: −0.88
sig: 0.007
6363.7760
off: −0.78
sig: 0.017
6553.6100
off: −0.91
sig: 0.026
6923.2100
off: −0.78
sig: 0.018
6949.0300
off: −0.72
sig: 0.015
7571.7500
off: −0.72
sig: 0.012
7794.1200
off: −0.78
sig: 0.008
7821.5100
off: −0.74
sig: 0.005
8399.1600
off: −0.71
sig: 0.004
8430.1700
off: −0.71
sig: 0.004
8885.8300
off: −0.67
sig: 0.004
8919.6100
off: −0.68
sig: 0.004

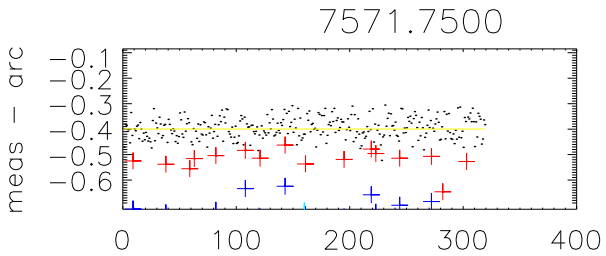

6300.3040
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

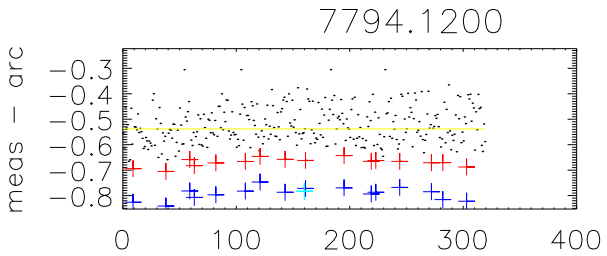

6363.7760
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

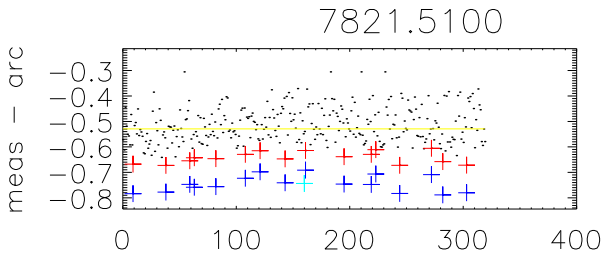

6553.6100
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

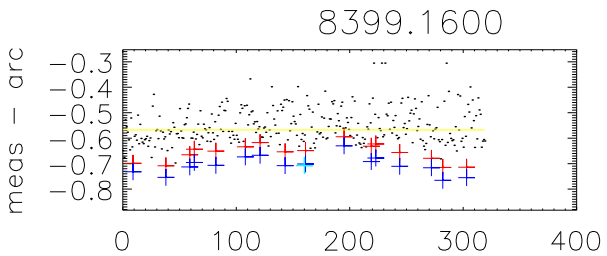

6923.2100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

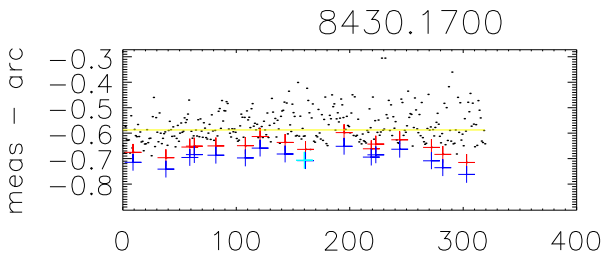

6949.0300
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

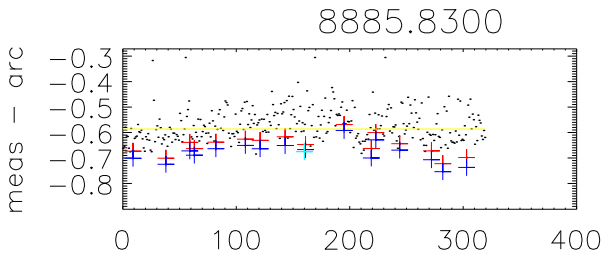

7571.7500
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

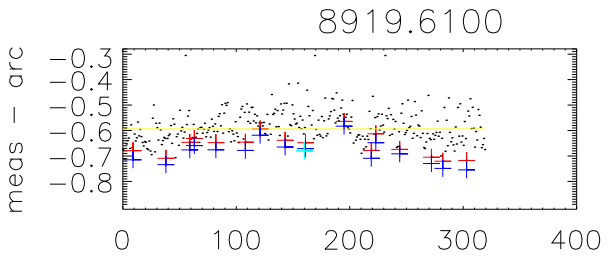

7794.1200
meas − arc
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
0
100
200
300
400

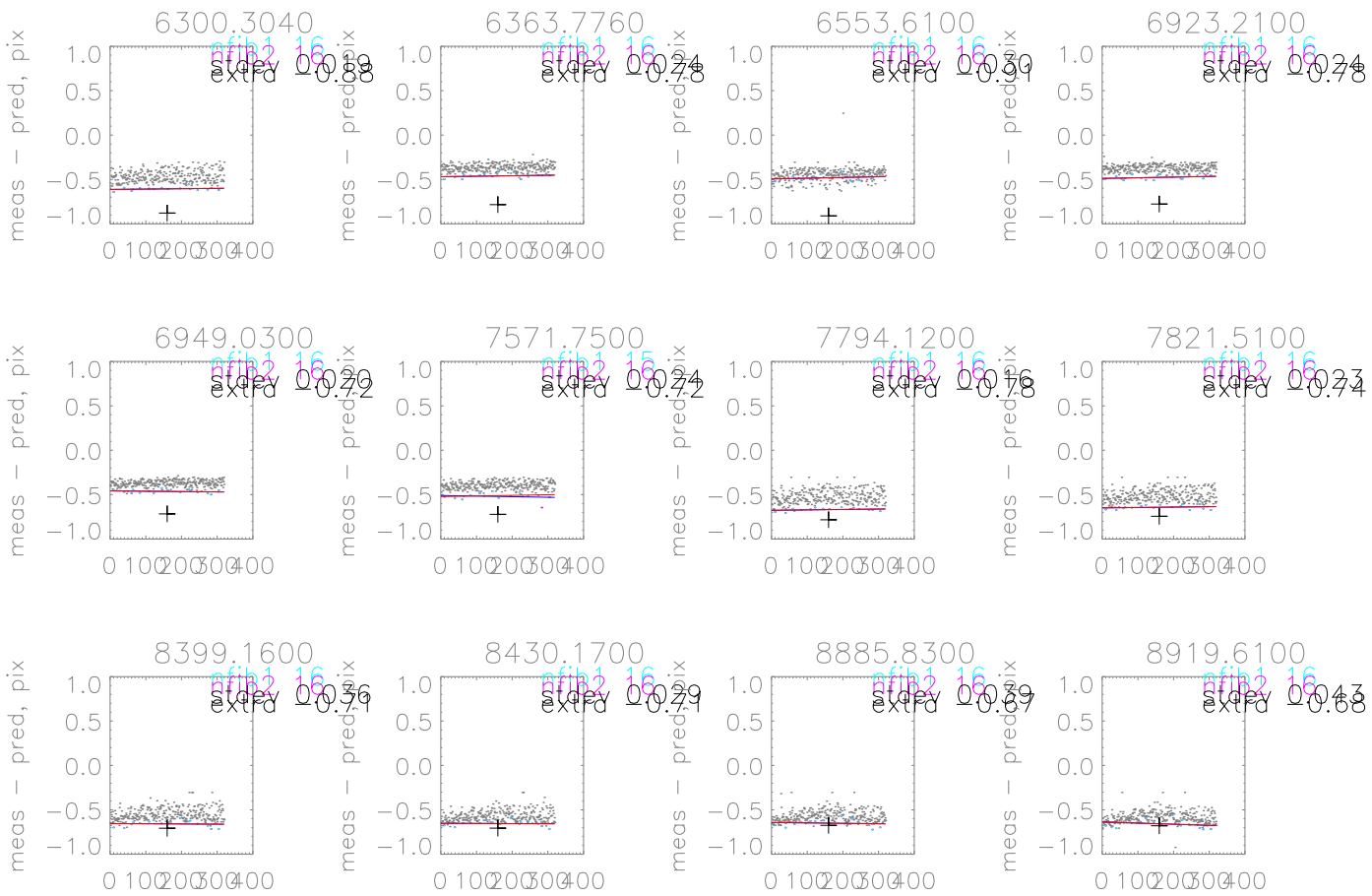

7821.5100
meas − arc
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
0
100
200
300
400

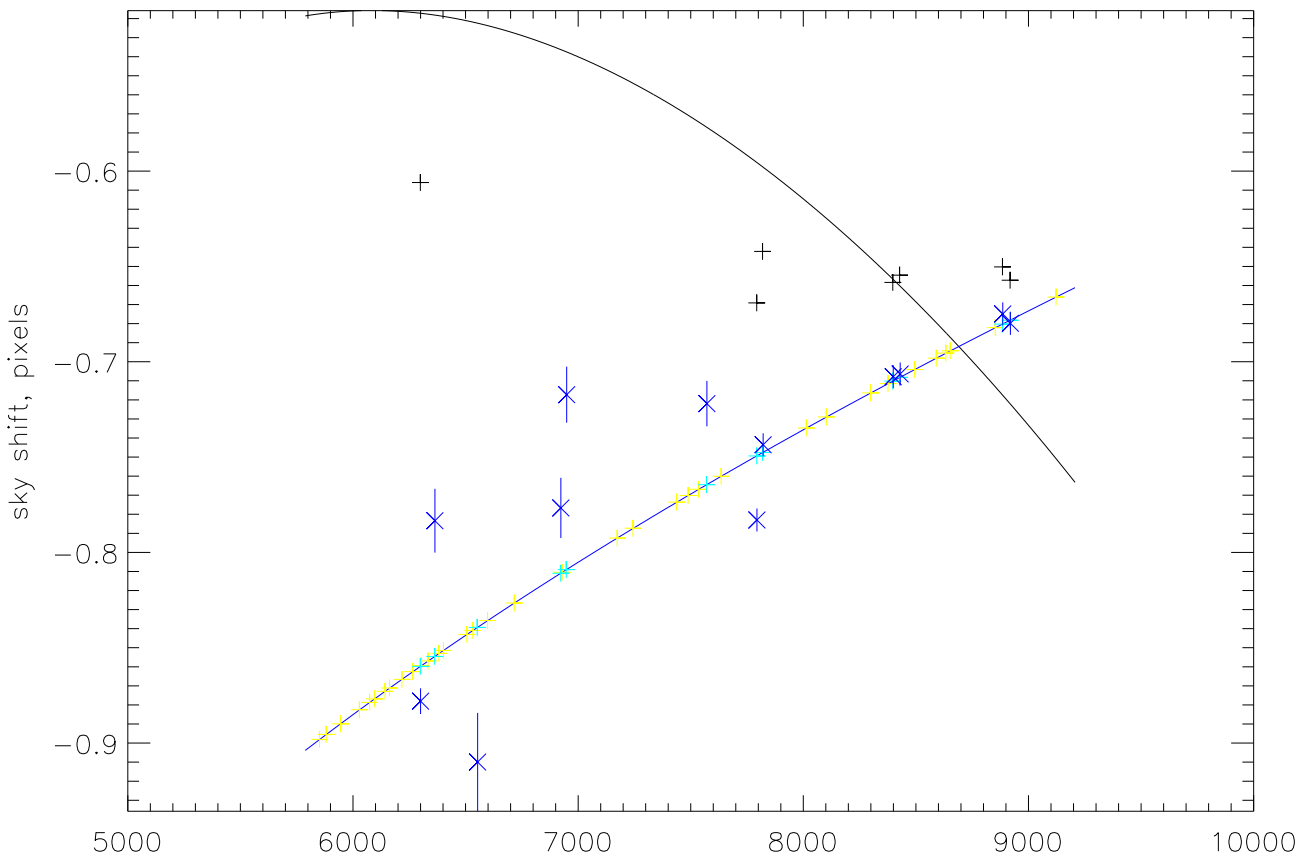

8399.1600
meas − arc
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
0
100
200
300
400

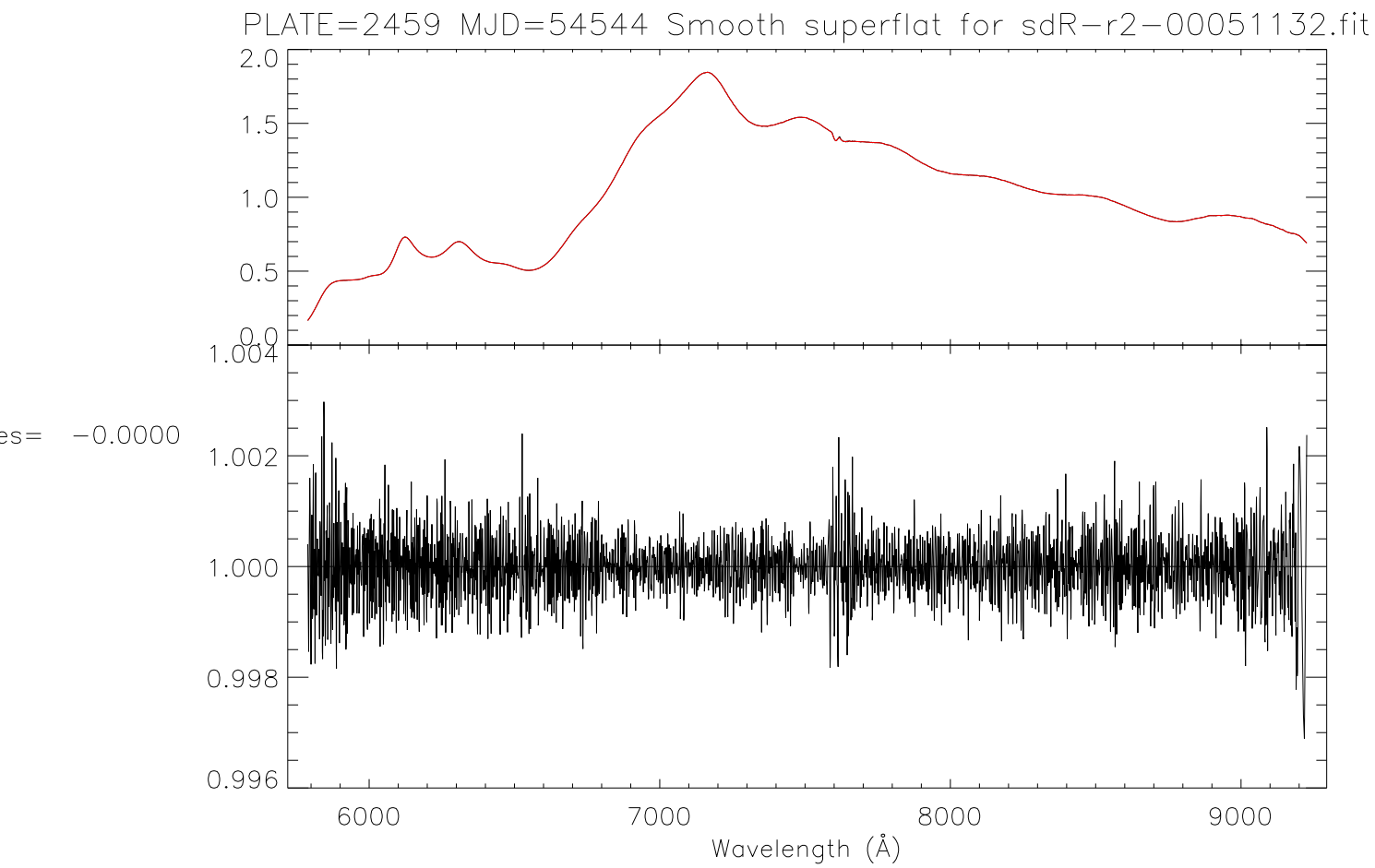

8430.1700
meas − arc
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
0
100
200
300
400

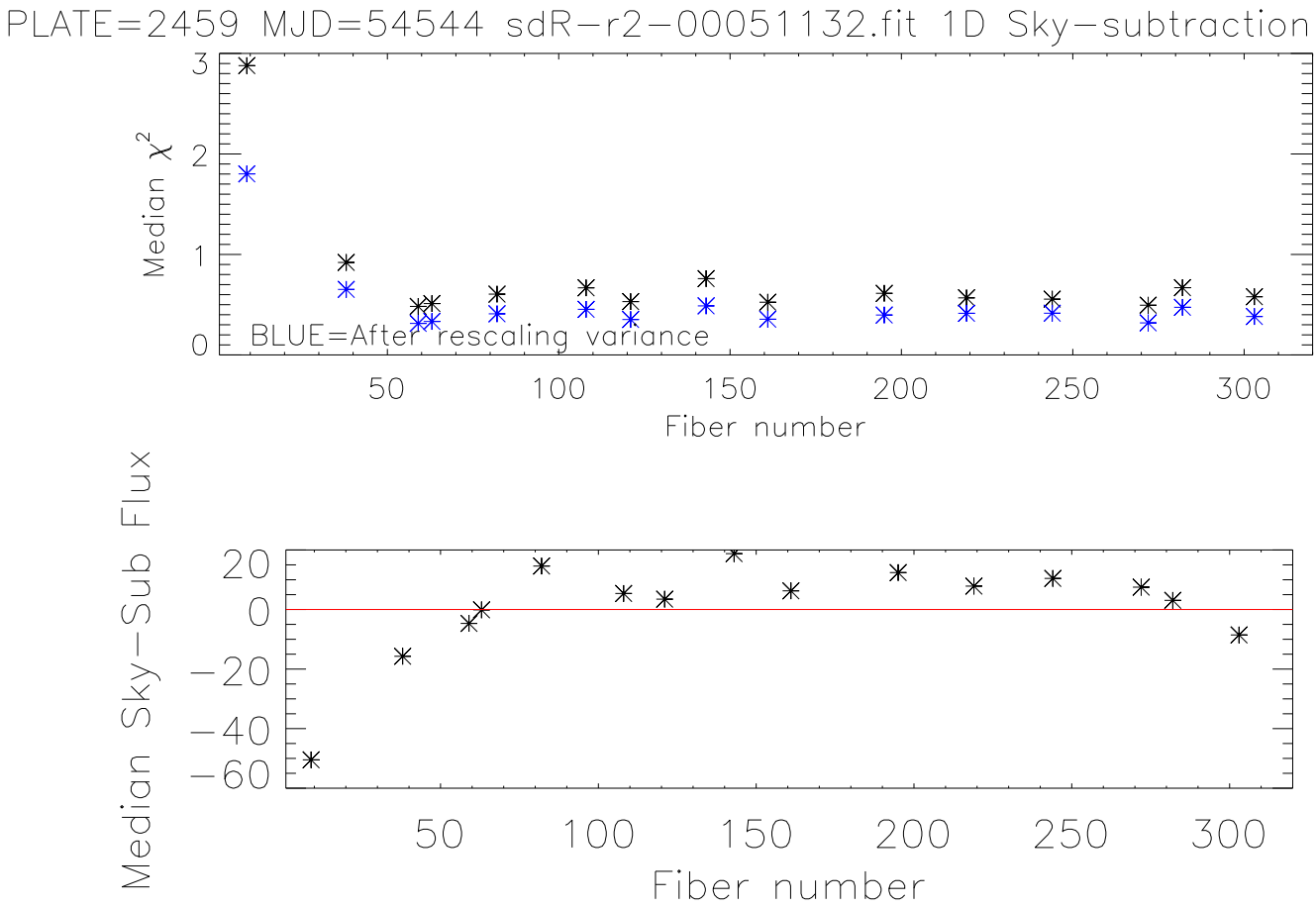

8885.8300
meas − arc
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
0
100
200
300
400

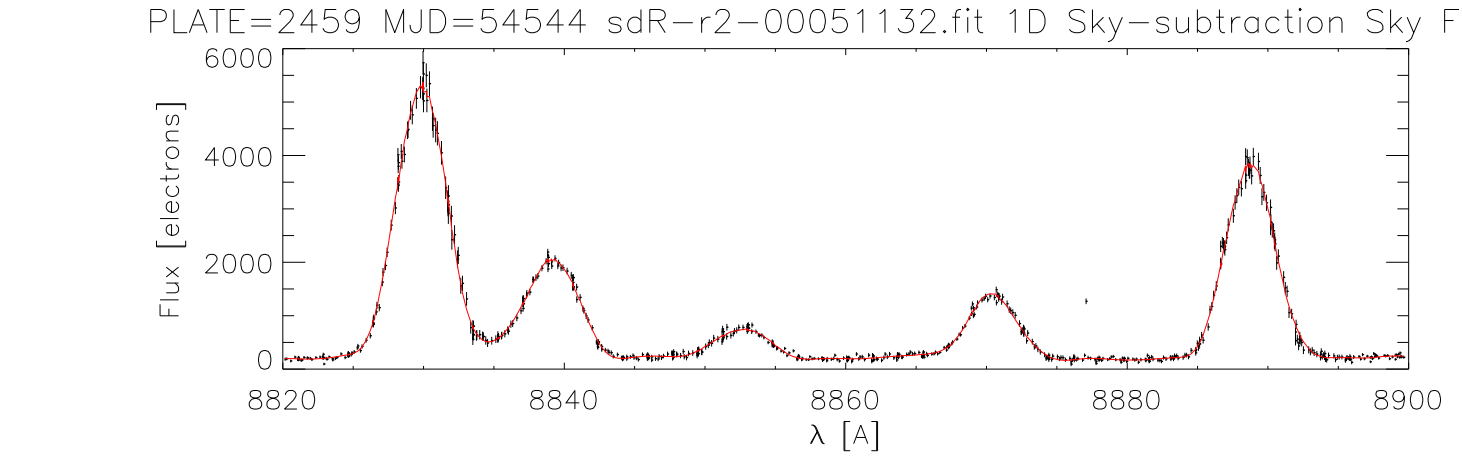

8919.6100
meas − arc
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
0
100
200
300
400

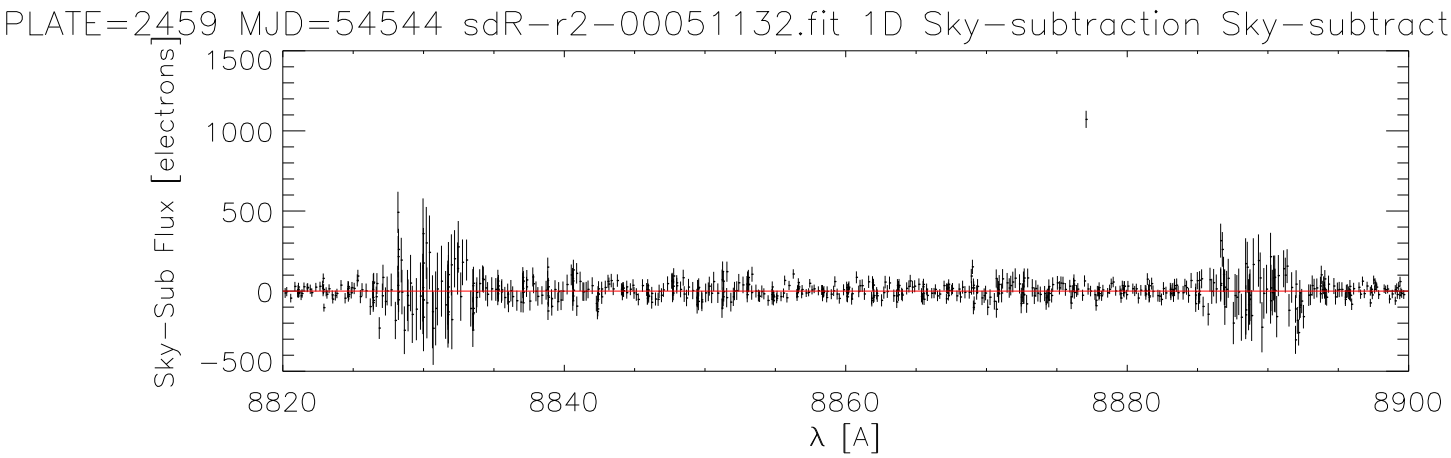

6300.3040
6363.7760
6553.6100
6923.2100
6949.0300
7571.7500
7794.1200
7821.5100
8399.1600
8430.1700
8885.8300
8919.6100
meas − pred, pix
mfhs2 16
stdev 0.019
extrd 0.88
stdev 0.024
extrd 0.78
stdev 0.030
extrd 0.91
stdev 0.024
extrd 0.78
stdev 0.020
extrd 0.72
stdev 0.024
extrd 0.72
stdev 0.016
extrd 0.78
stdev 0.023
extrd 0.74
stdev 0.036
extrd 0.71
stdev 0.029
extrd 0.71
stdev 0.039
extrd 0.67
stdev 0.043
extrd 0.68
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

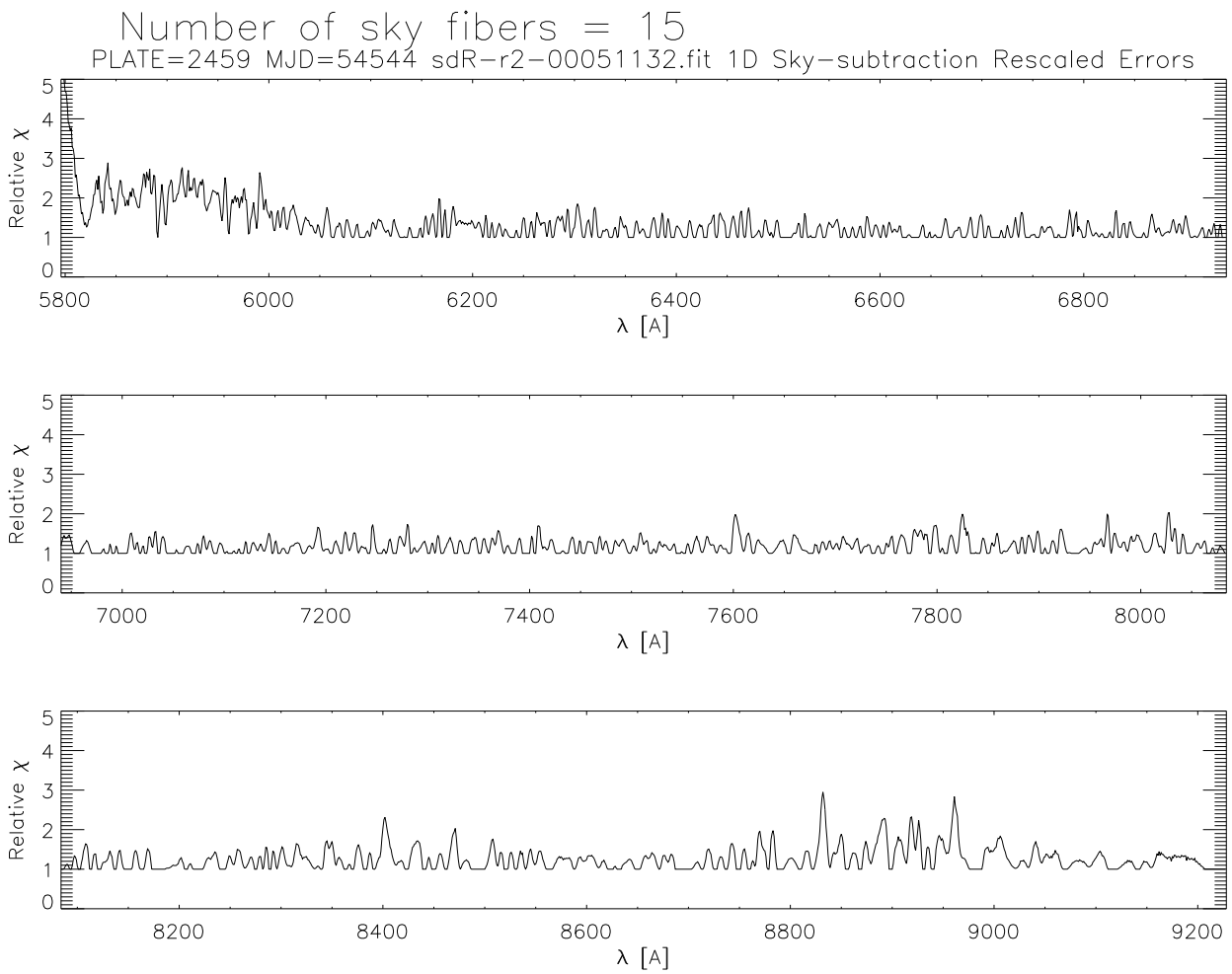

sky shift, pixels
−0.6
−0.7
−0.8
−0.9
5000
6000
7000
8000
9000
10000

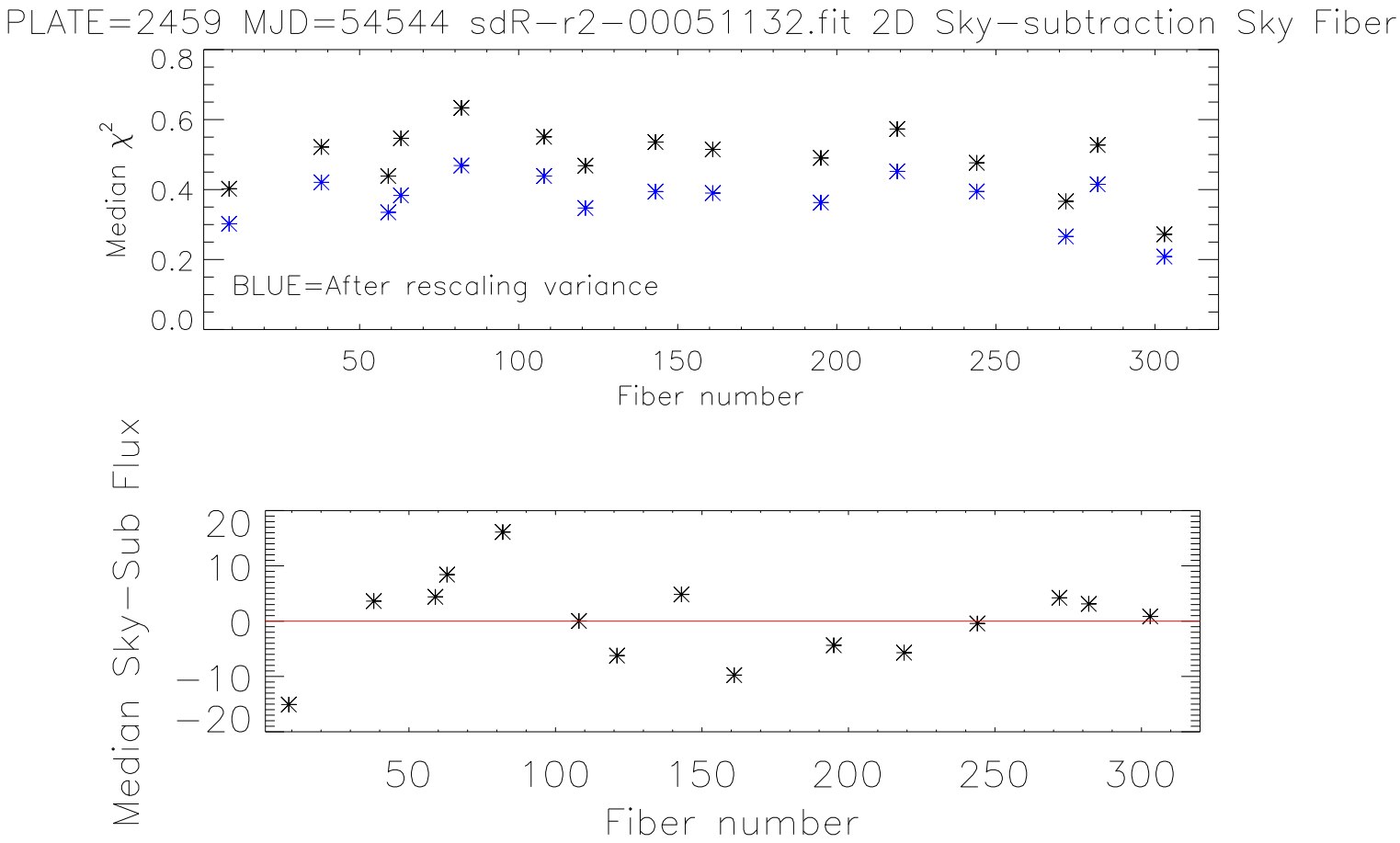

PLATE=2459 MJD=54544 Smooth superflat for sdR-r2-00051132.fit
2.0
1.5
1.0
0.5
0.0
1.004
1.002
1.000
0.998
0.996
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

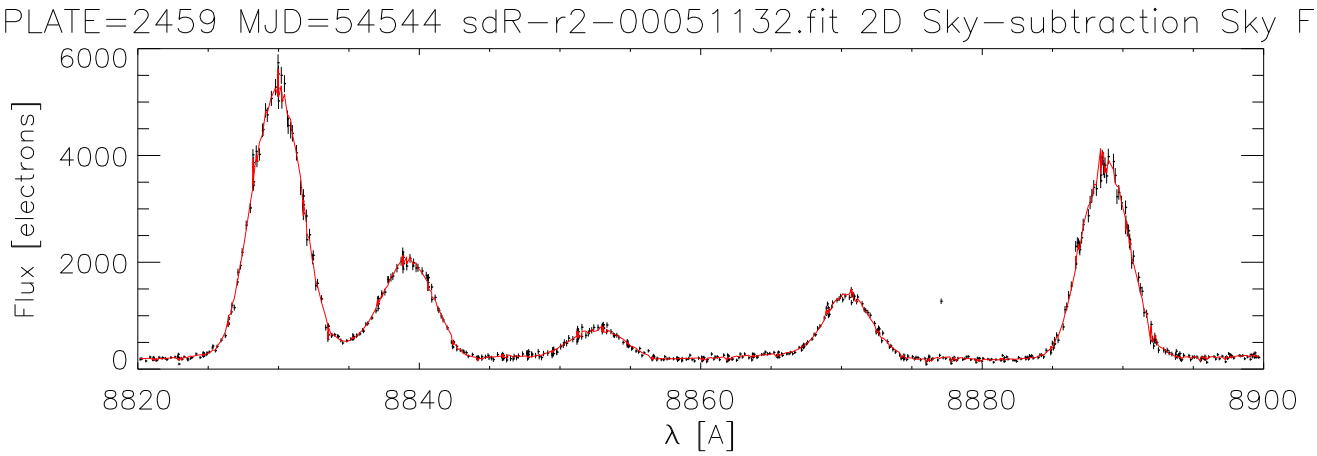

PLATE=2459 MJD=54544 sdR-r2-00051132.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

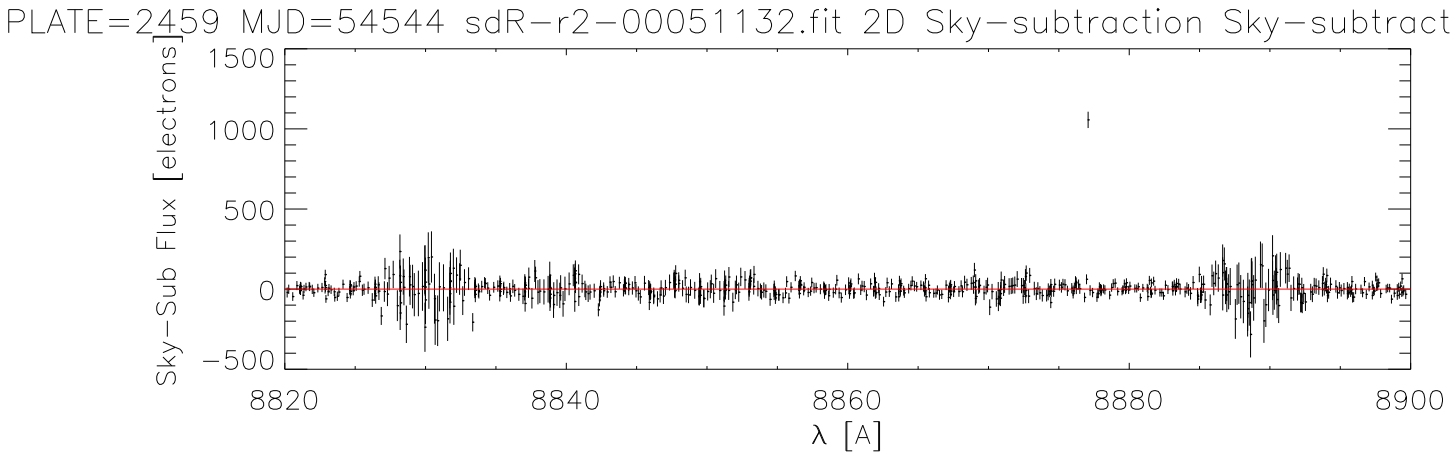

PLATE=2459 MJD=54544 sdR-r2-00051132.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

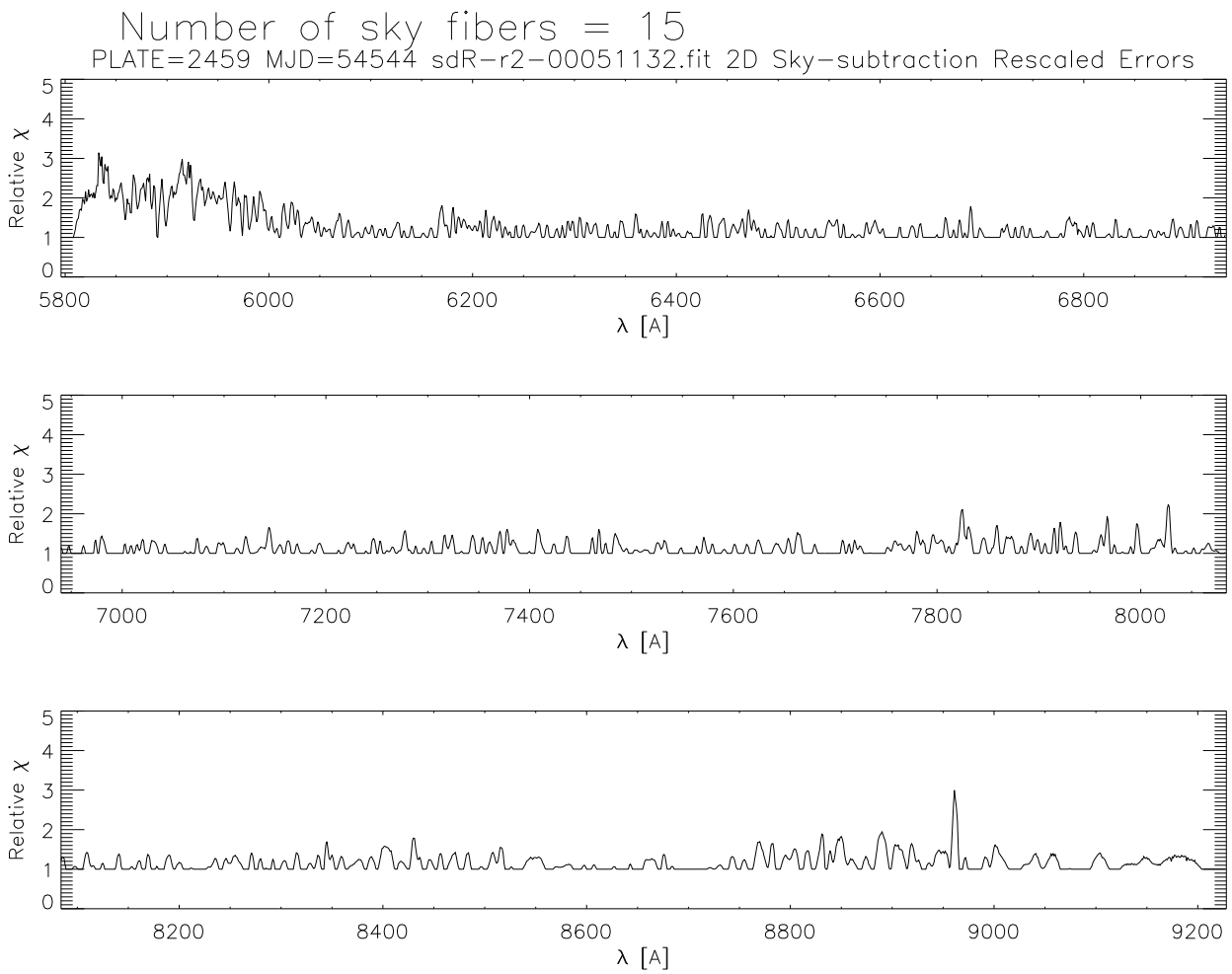

PLATE=2459 MJD=54544 sdR-r2-00051132.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

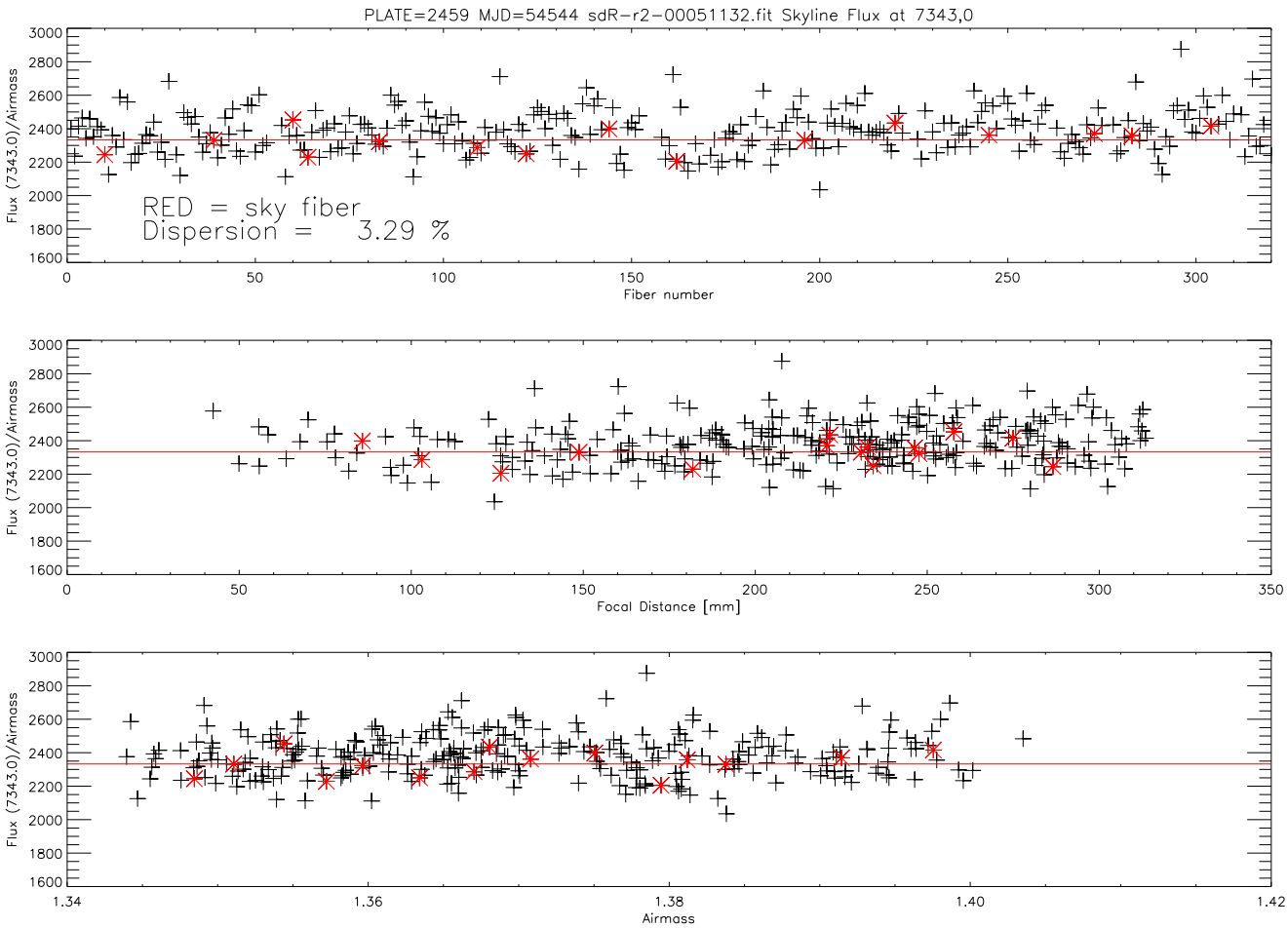

Number of sky fibers = 15
PLATE=2459 MJD=54544 sdR-r2-00051132.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

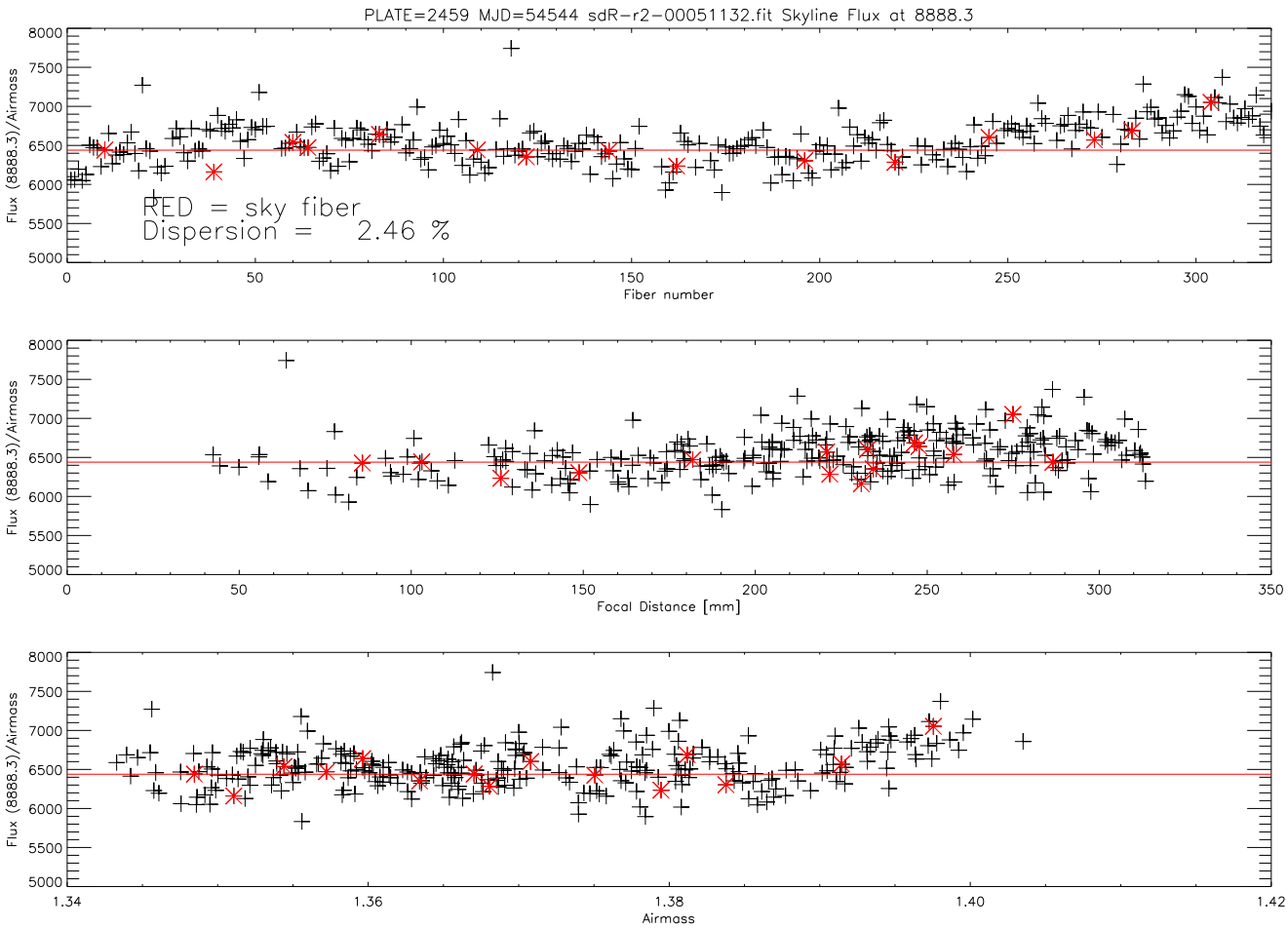

PLATE=2459 MJD=54544 sdR-r2-00051132.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
10
0
-10
-20
50
100
150
200
250
300
Fiber number

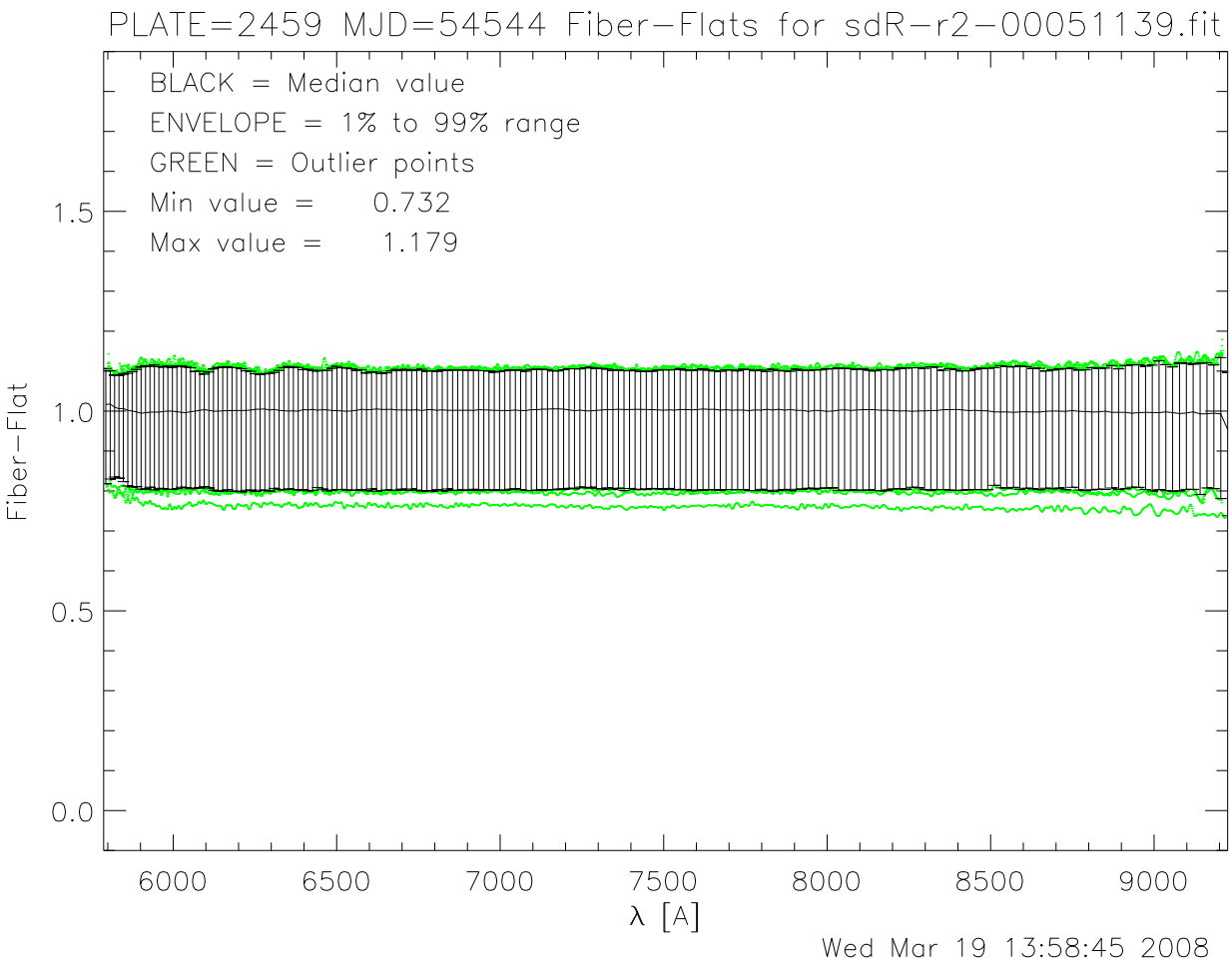

PLATE=2459 MJD=54544 sdR-r2-00051132.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

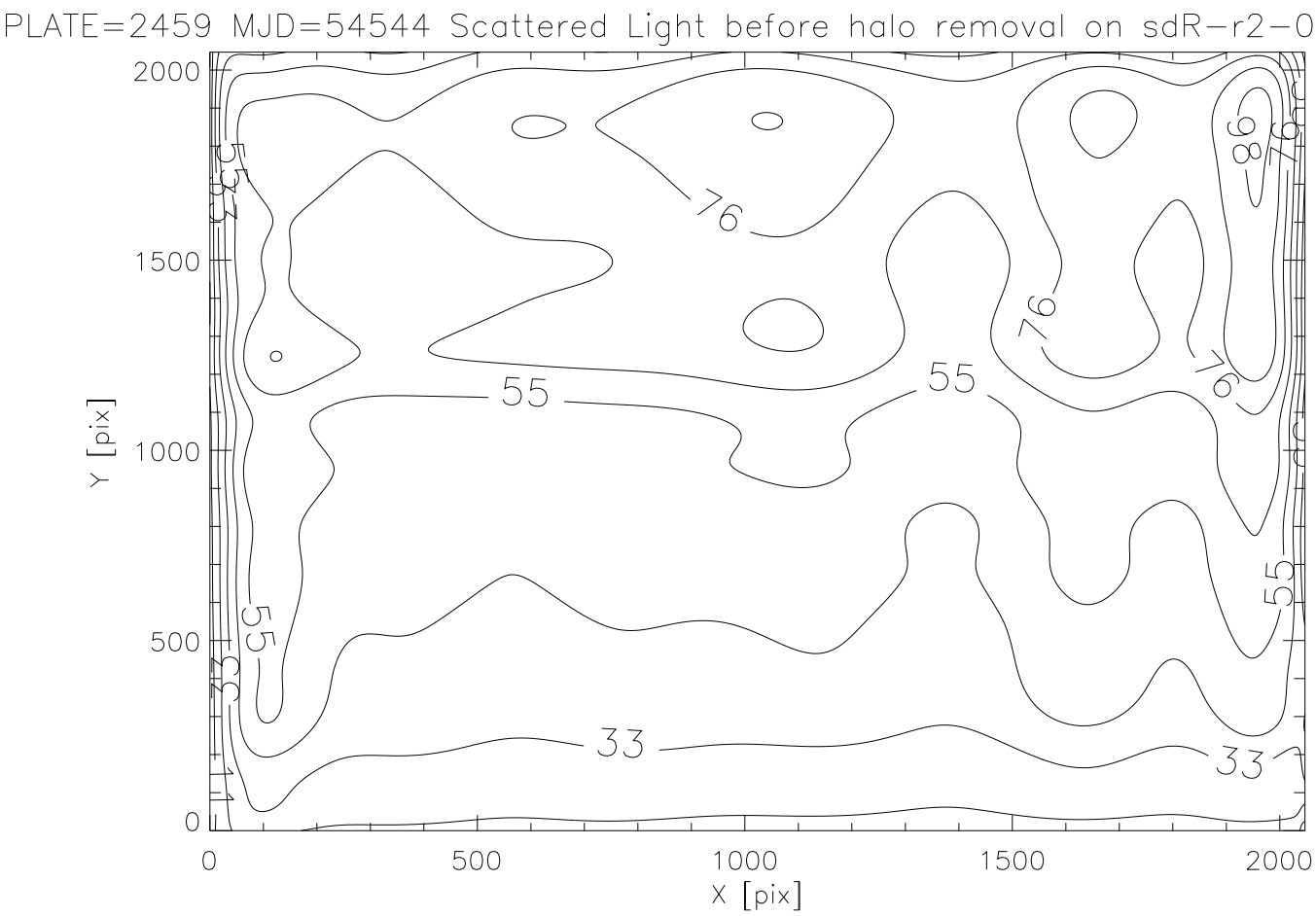

PLATE=2459 MJD=54544 sdR-r2-00051132.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

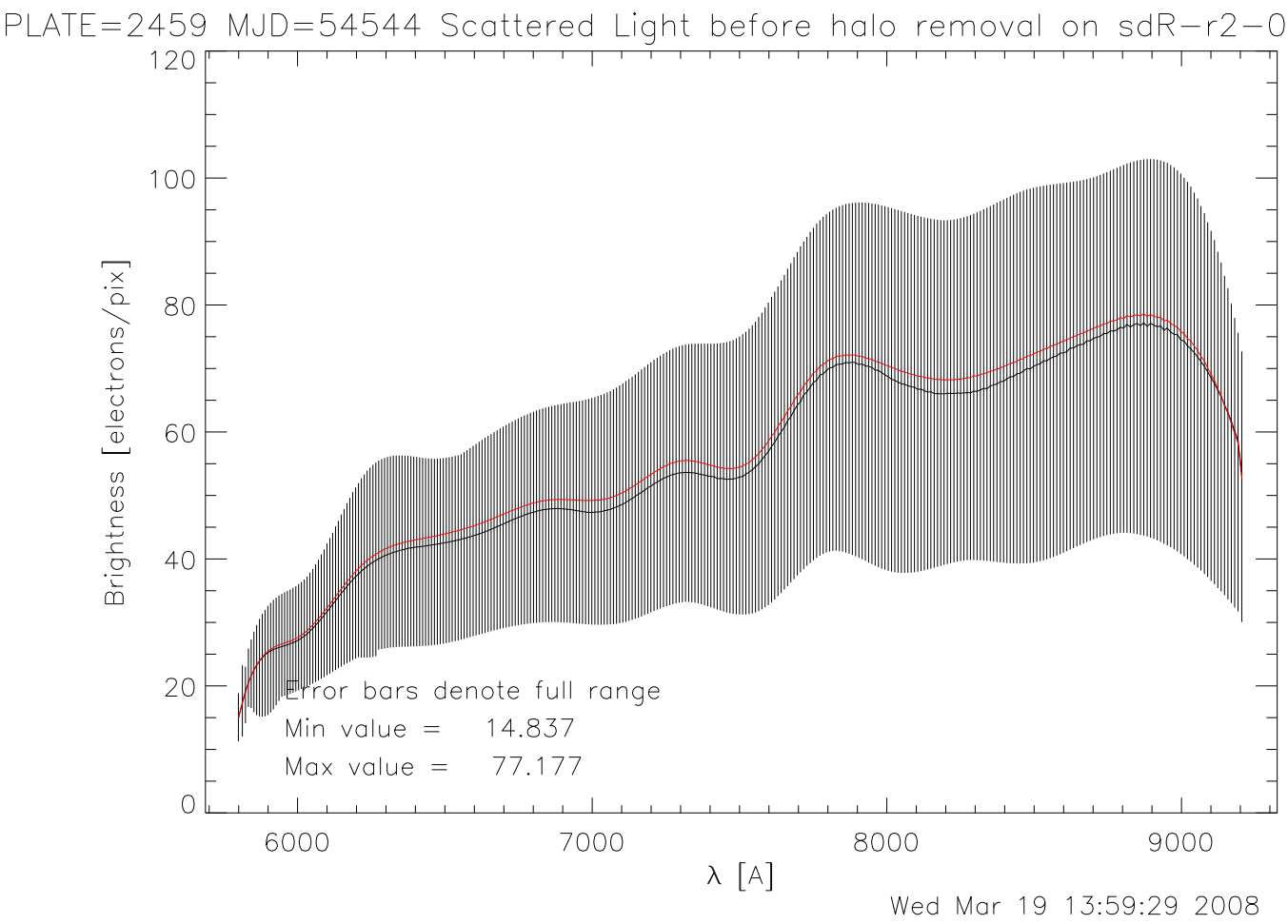

Number of sky fibers = 15
PLATE=2459 MJD=54544 sdR-r2-00051132.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

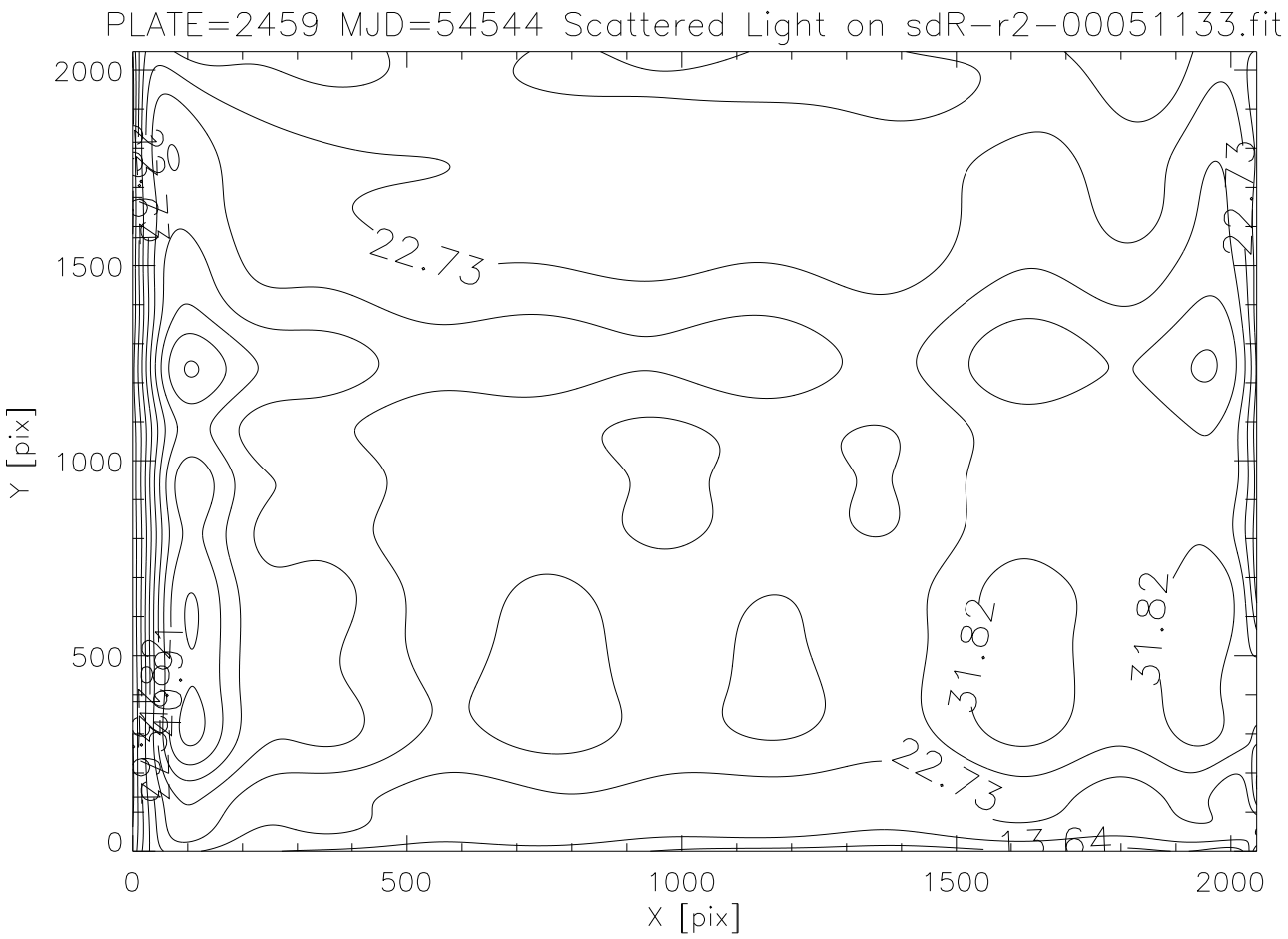

PLATE=2459 MJD=54544 sdR-r2-00051132.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.29 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

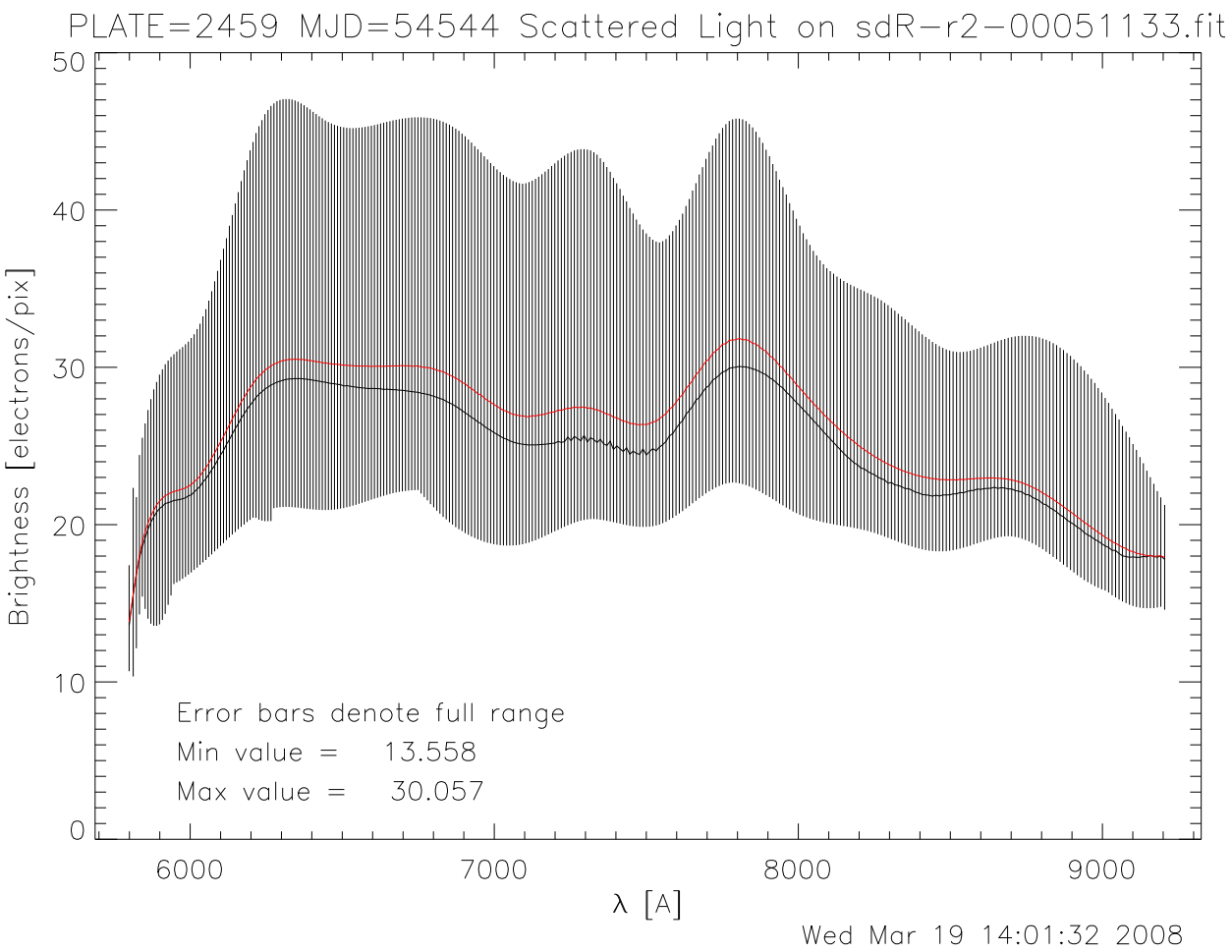

PLATE=2459 MJD=54544 sdR-r2-00051132.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.46 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

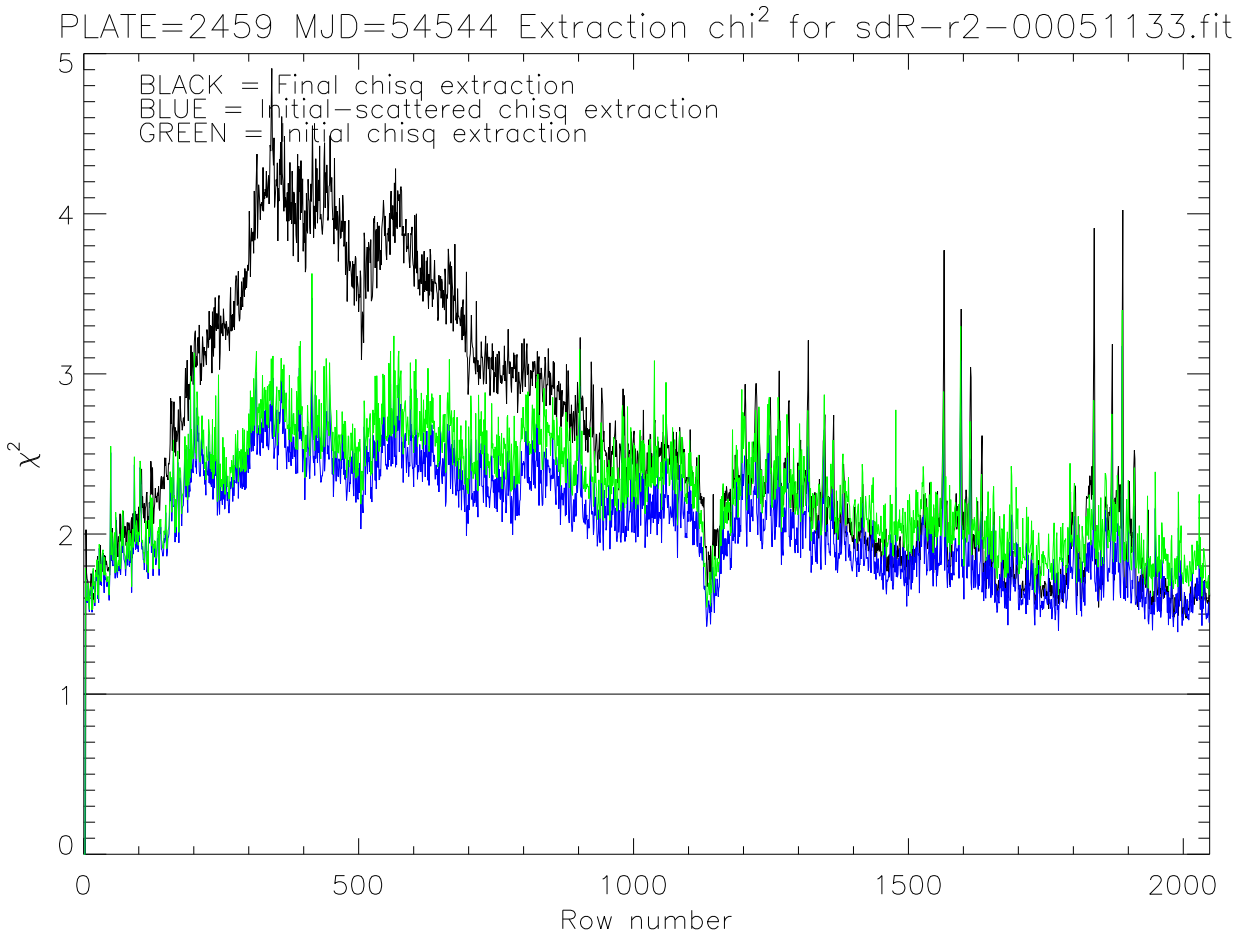

PLATE=2459 MJD=54544 Fiber−Flats for sdR−r2−00051139.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.732
Max value = 1.179
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 19 13:58:45 2008

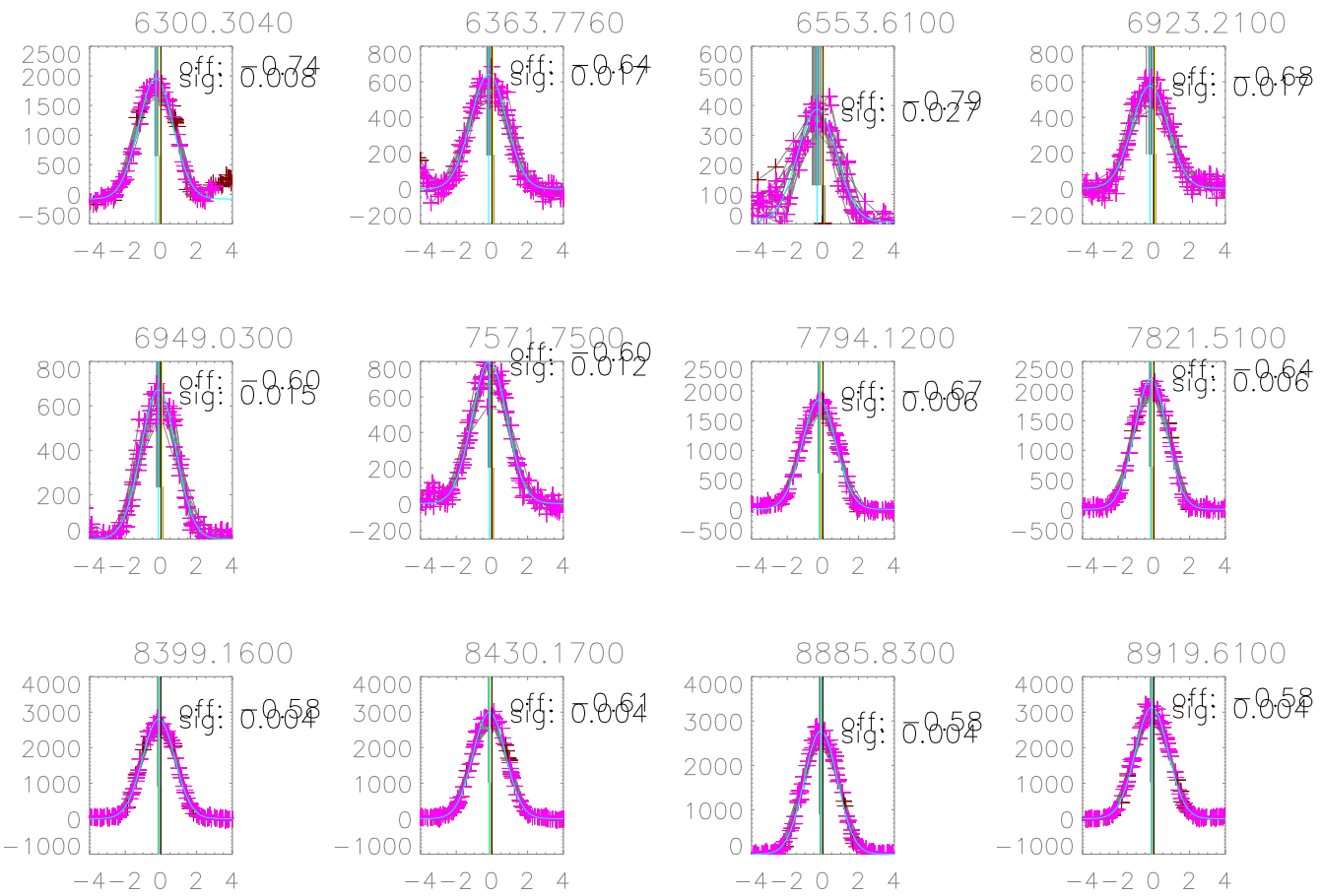

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-r2-00051133.fi
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
76
55
33
98

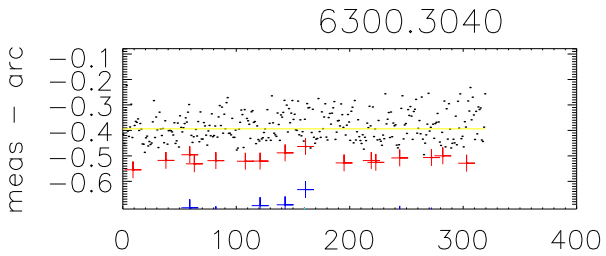

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-r2-00051133.fi
Brightness [electrons/pix]
120
100
80
60
40
20
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 14.837
Max value = 77.177
Wed Mar 19 13:59:29 2008

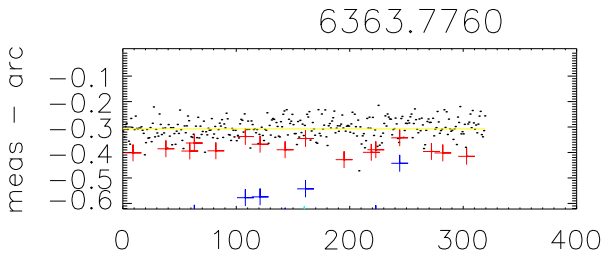

PLATE=2459 MJD=54544 Scattered Light on sdR-r2-00051133.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
22.73
31.82
13.64

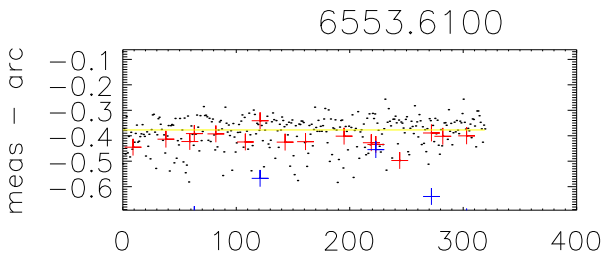

PLATE=2459 MJD=54544 Scattered Light on sdR-r2-00051133.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 13.558
Max value = 30.057
Wed Mar 19 14:01:32 2008

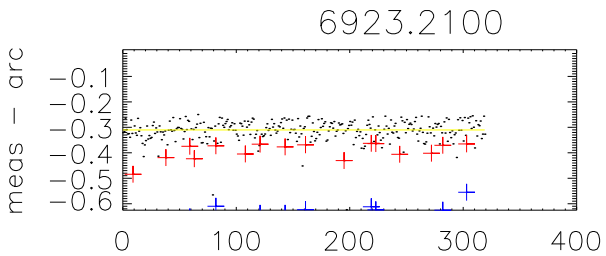

PLATE=2459 MJD=54544 Extraction chi^2 for sdR−r2−00051133.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
500
1000
1500
2000
0
1
2
3
4
5

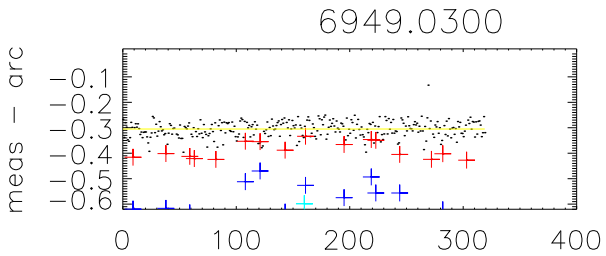

6300.3040
off: −0.74
sig: 0.008
6363.7760
off: −0.64
sig: 0.017
6553.6100
off: −0.79
sig: 0.027
6923.2100
off: −0.68
sig: 0.017
6949.0300
off: −0.60
sig: 0.015
7571.7500
off: −0.60
sig: 0.012
7794.1200
off: −0.67
sig: 0.006
7821.5100
off: −0.64
sig: 0.006
8399.1600
off: −0.58
sig: 0.004
8430.1700
off: −0.61
sig: 0.004
8885.8300
off: −0.58
sig: 0.004
8919.6100
off: −0.58
sig: 0.004

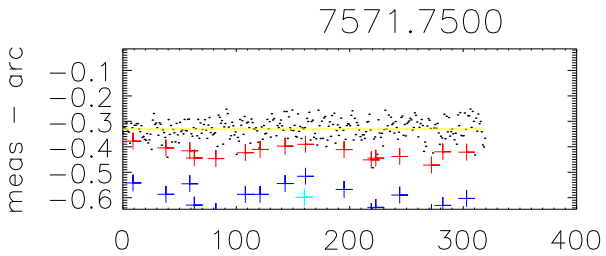

6300.3040
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

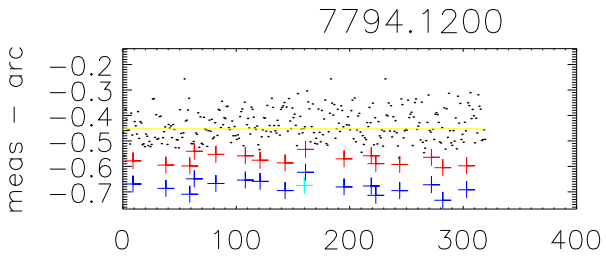

6363.7760
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

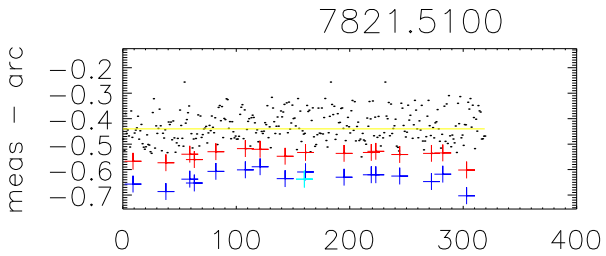

6553.6100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

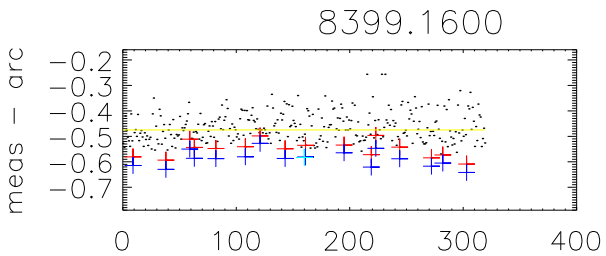

6923.2100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

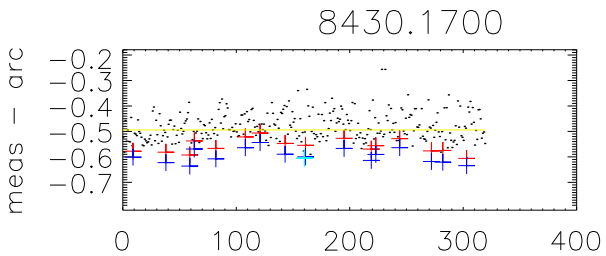

6949.0300
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

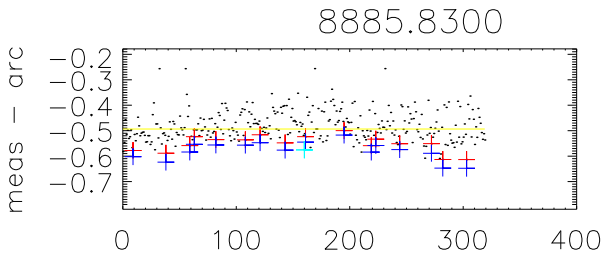

7571.7500
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

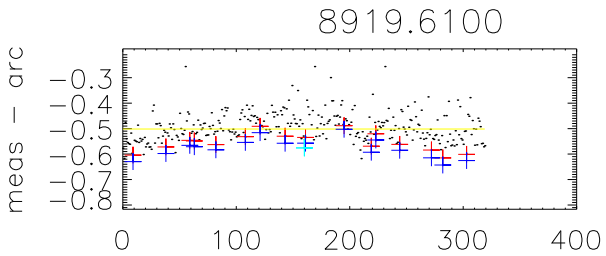

7794.1200
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

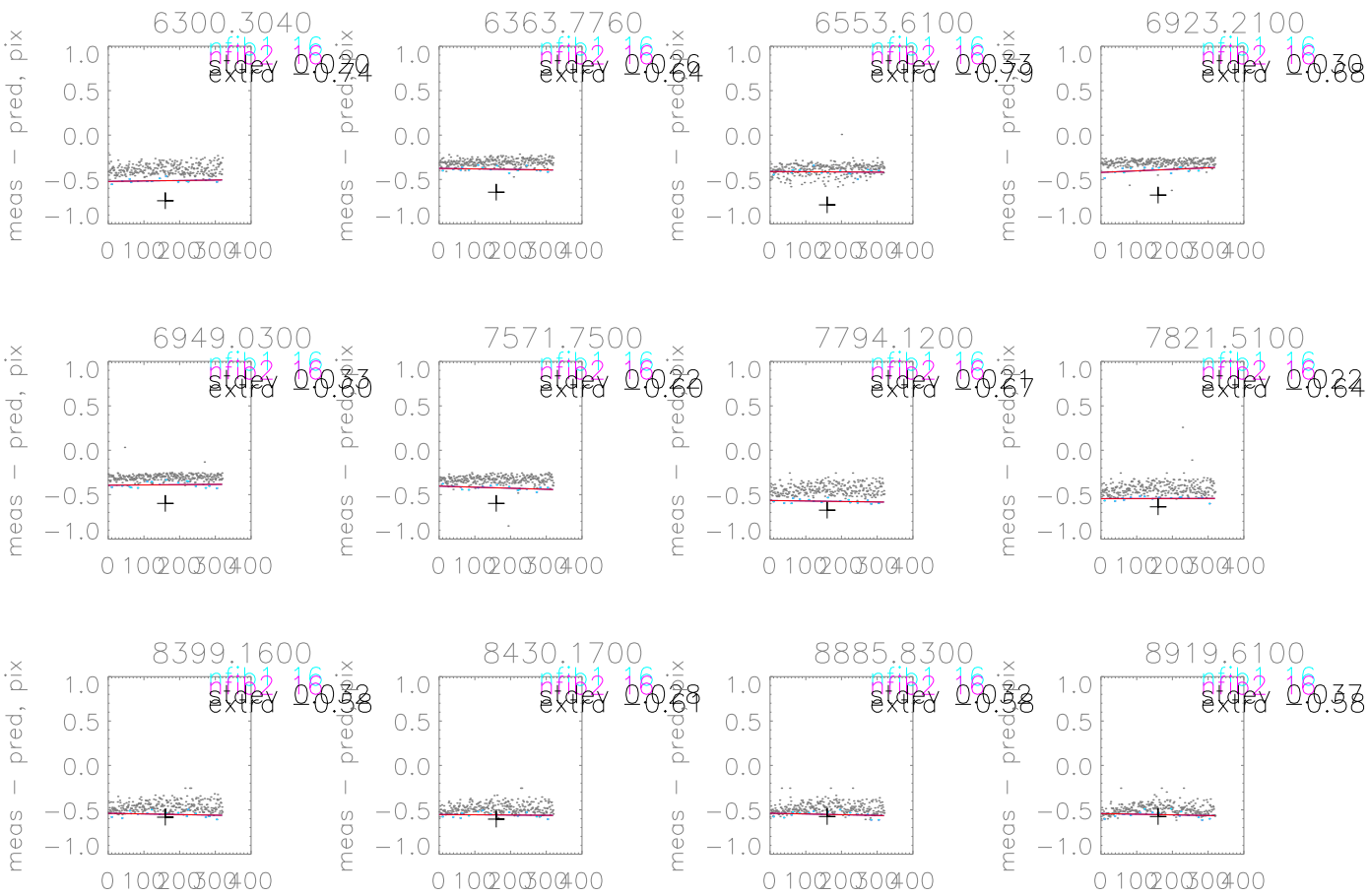

7821.5100
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

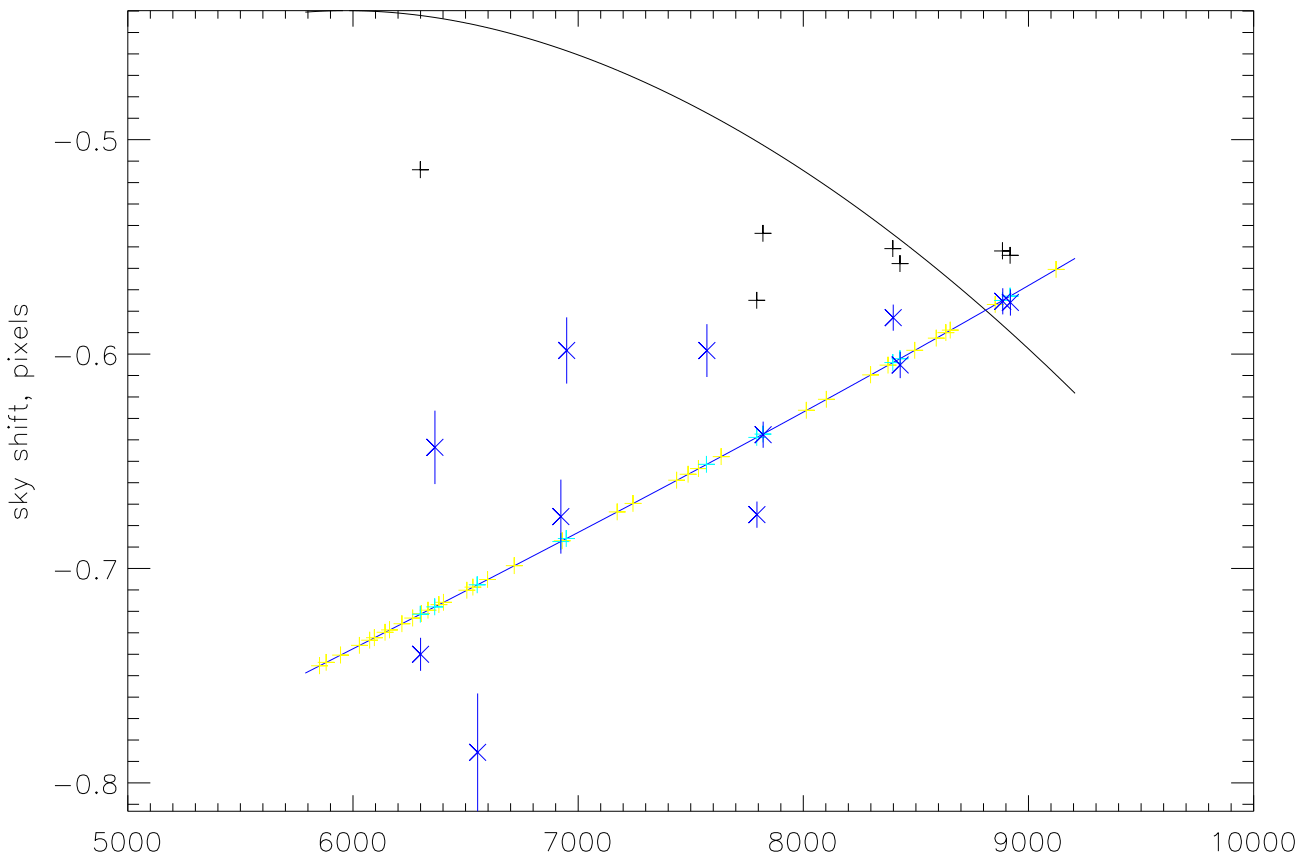

8399.1600
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400


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

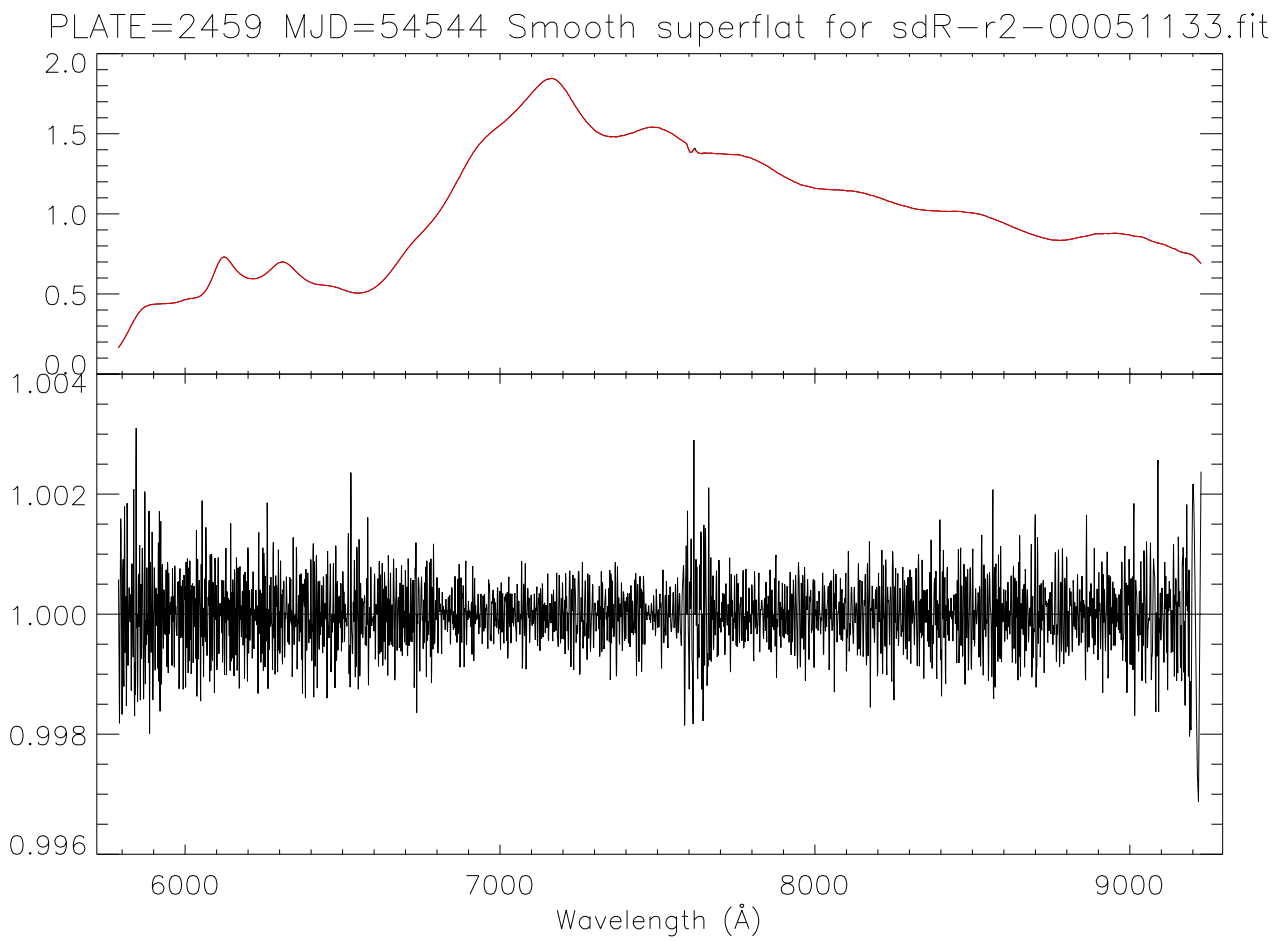

8885.8300
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

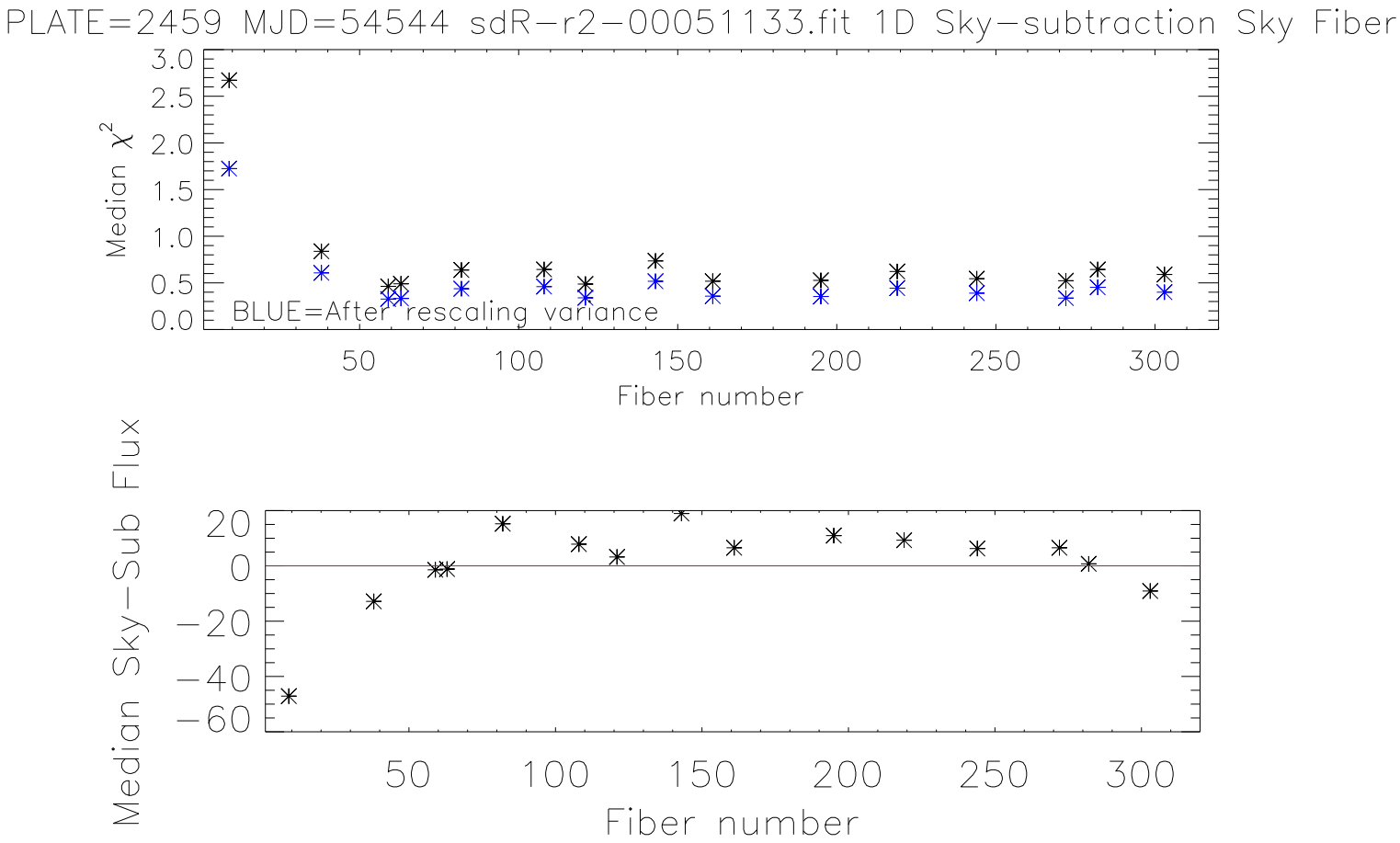

8919.6100
meas − arc
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
0
100
200
300
400

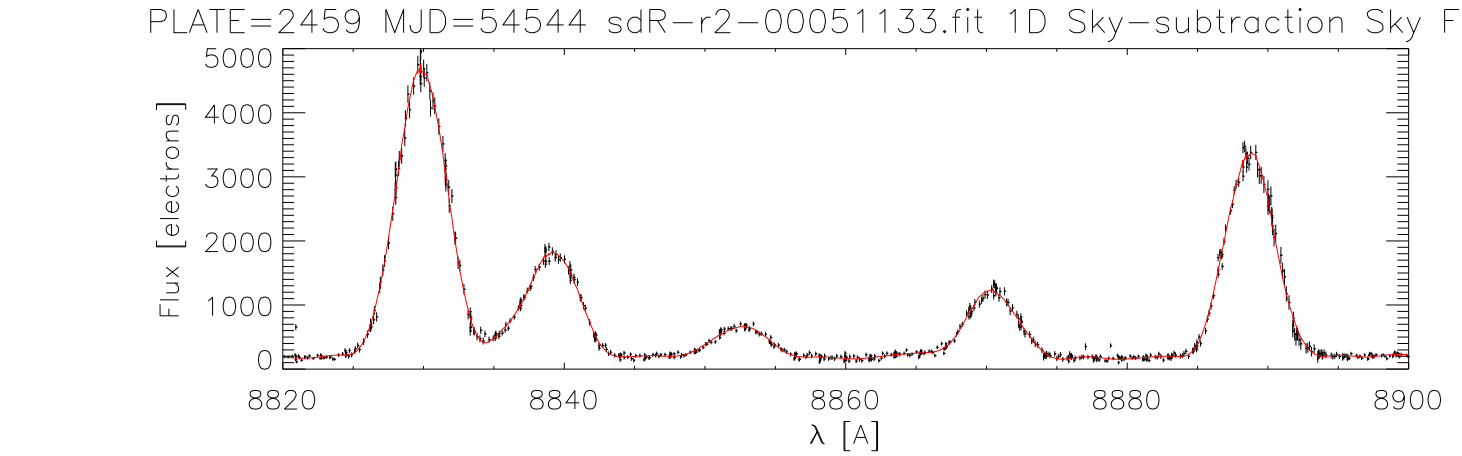

6300.3040
6363.7760
6553.6100
6923.2100
6949.0300
7571.7500
7794.1200
7821.5100
8399.1600
8430.1700
8885.8300
8919.6100
meas − pred, pix
mfhs2 16
stdev 0.30
extrd 0.74
stdev 0.26
extrd 0.64
stdev 0.33
extrd 0.79
stdev 0.30
extrd 0.68
stdev 0.33
extrd 0.60
stdev 0.22
extrd 0.60
stdev 0.21
extrd 0.67
stdev 0.22
extrd 0.64
stdev 0.32
extrd 0.58
stdev 0.28
extrd 0.61
stdev 0.32
extrd 0.58
stdev 0.33
extrd 0.58

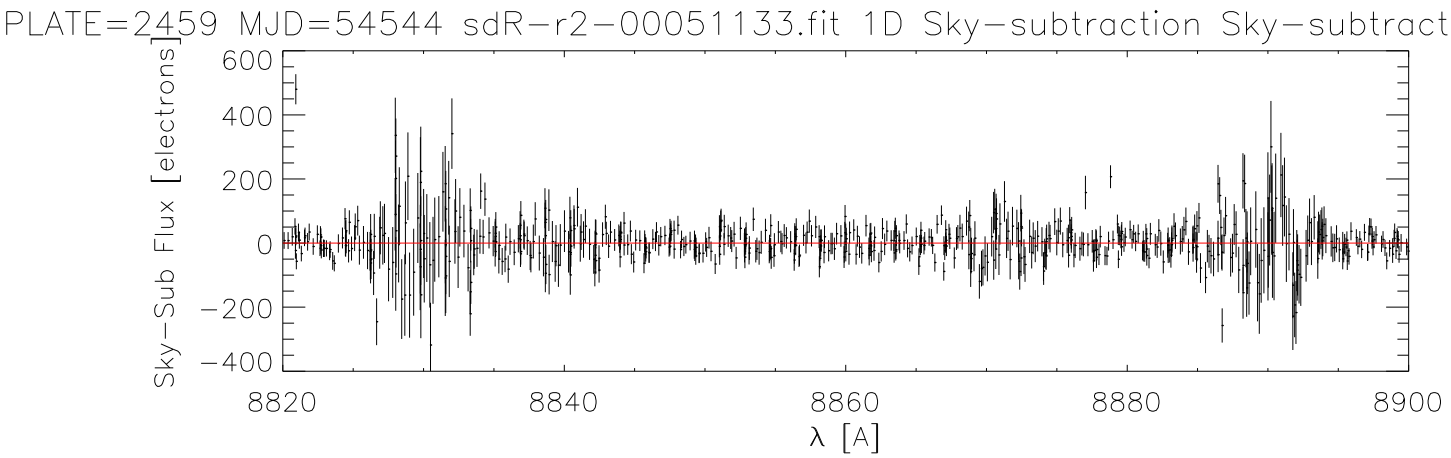

sky shift, pixels
−0.5
−0.6
−0.7
−0.8
5000
6000
7000
8000
9000
10000

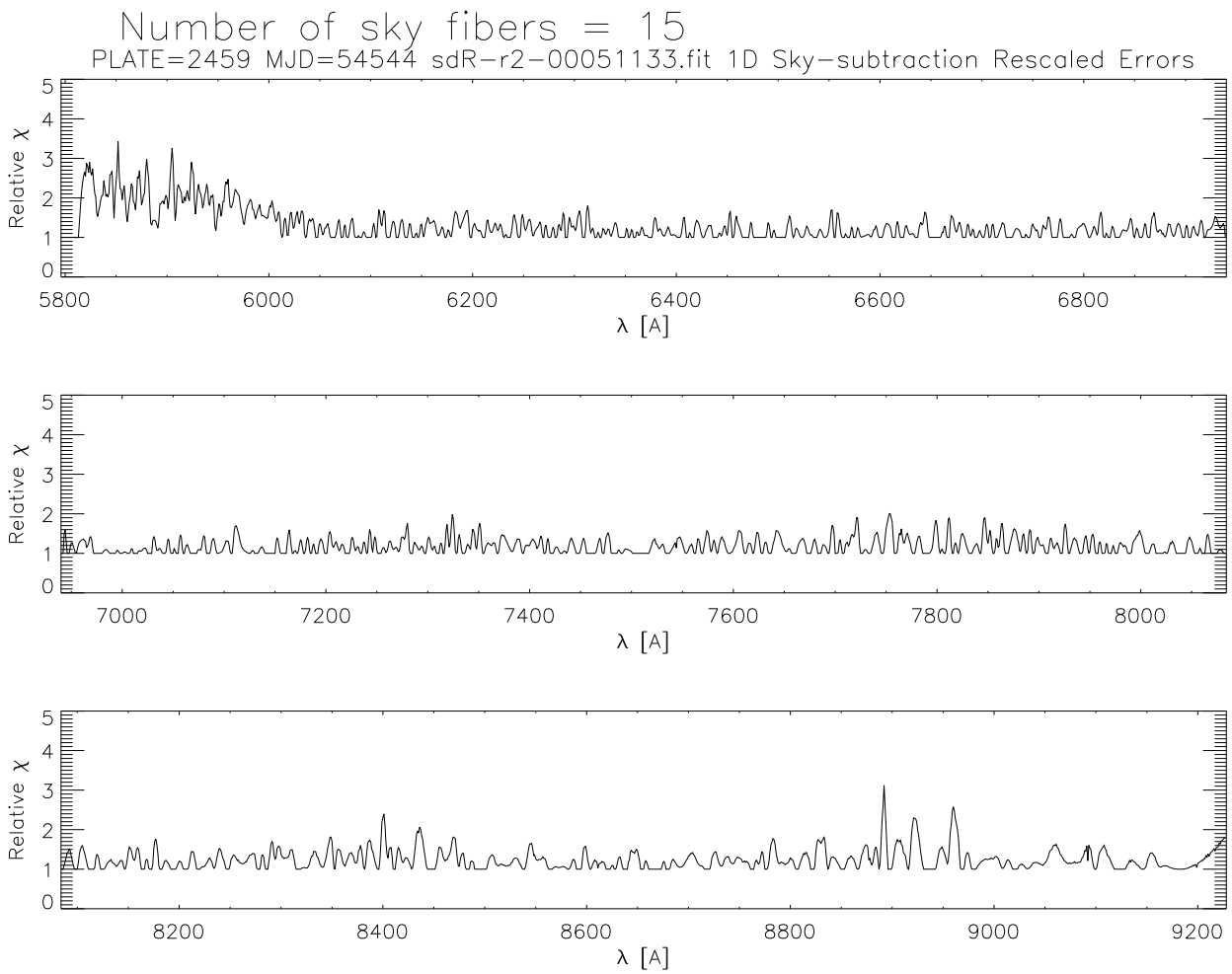
es= 0.0000

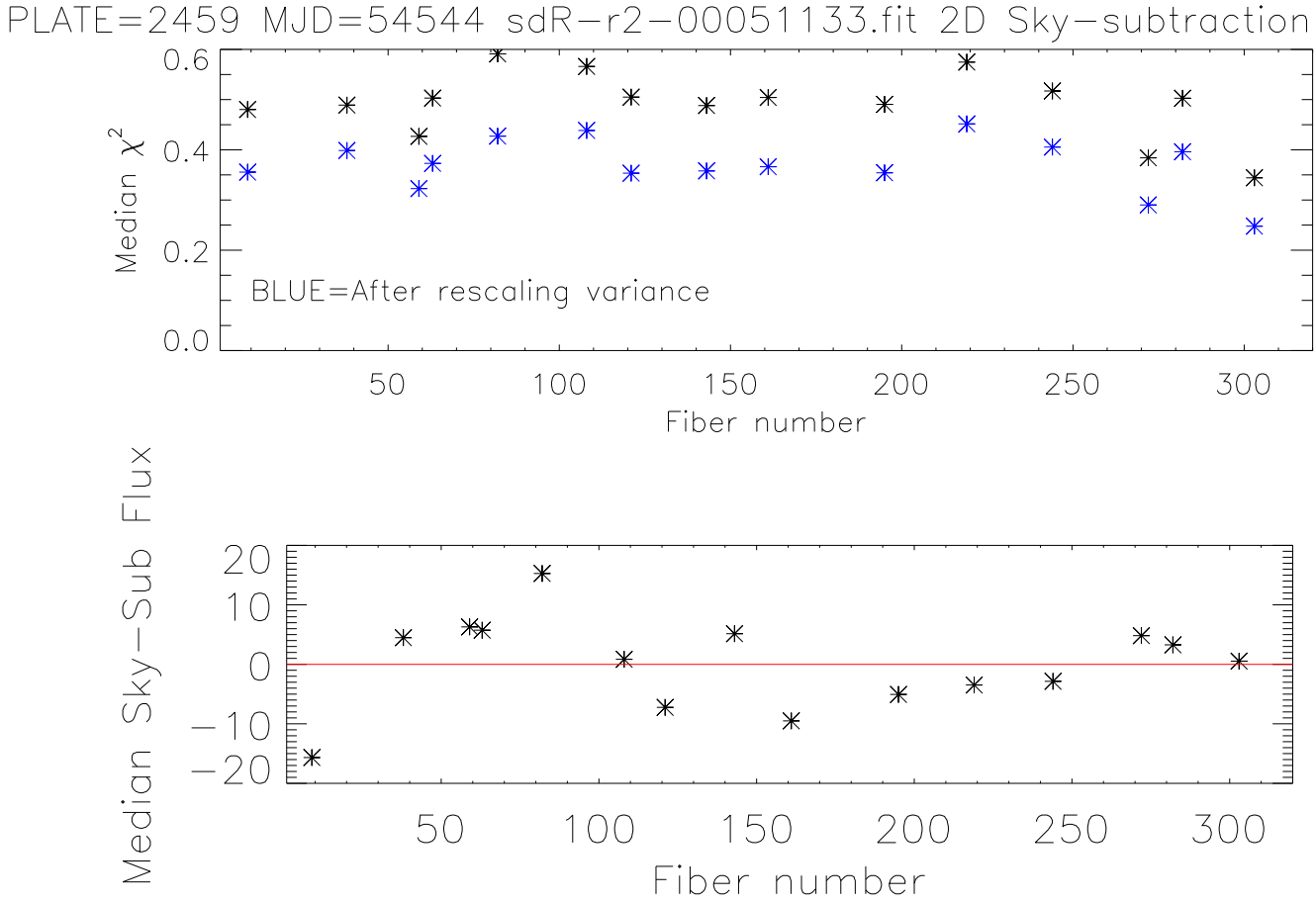

PLATE=2459 MJD=54544 Smooth superflat for sdR-r2-00051133.fit
2.0
1.5
1.0
0.5
0.0
1.004
1.002
1.000
0.998
0.996
6000
7000
8000
9000
Wavelength (Å)

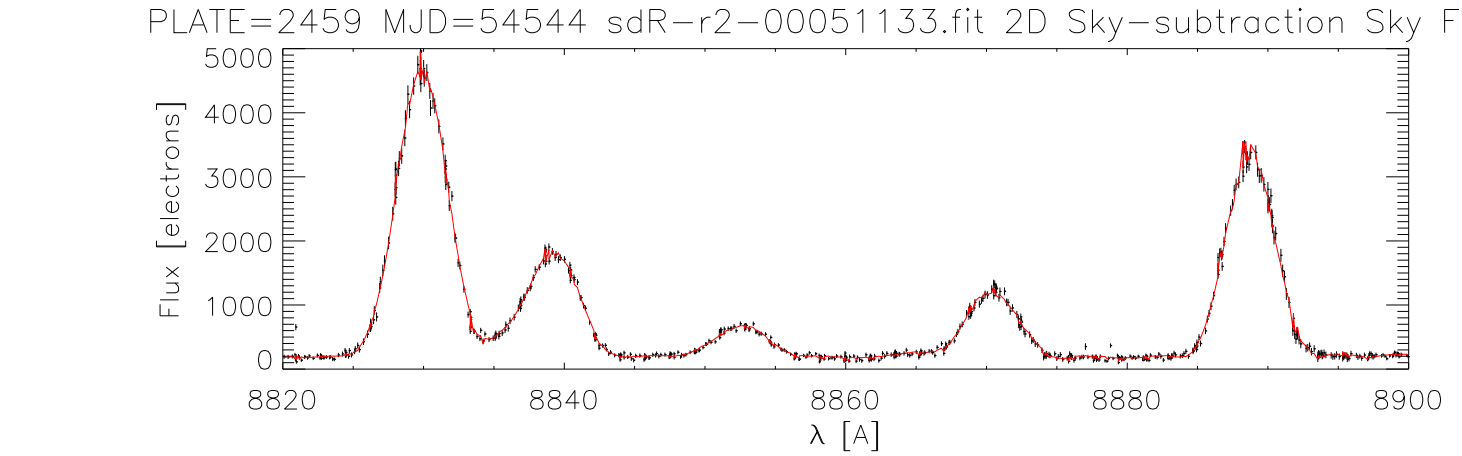

PLATE=2459 MJD=54544 sdR-r2-00051133.fit 1D Sky-subtraction Sky Fibers
Median χ^2
3.0
2.5
2.0
1.5
1.0
0.5
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
0
-20
-40
-60
50
100
150
200
250
300
Fiber number

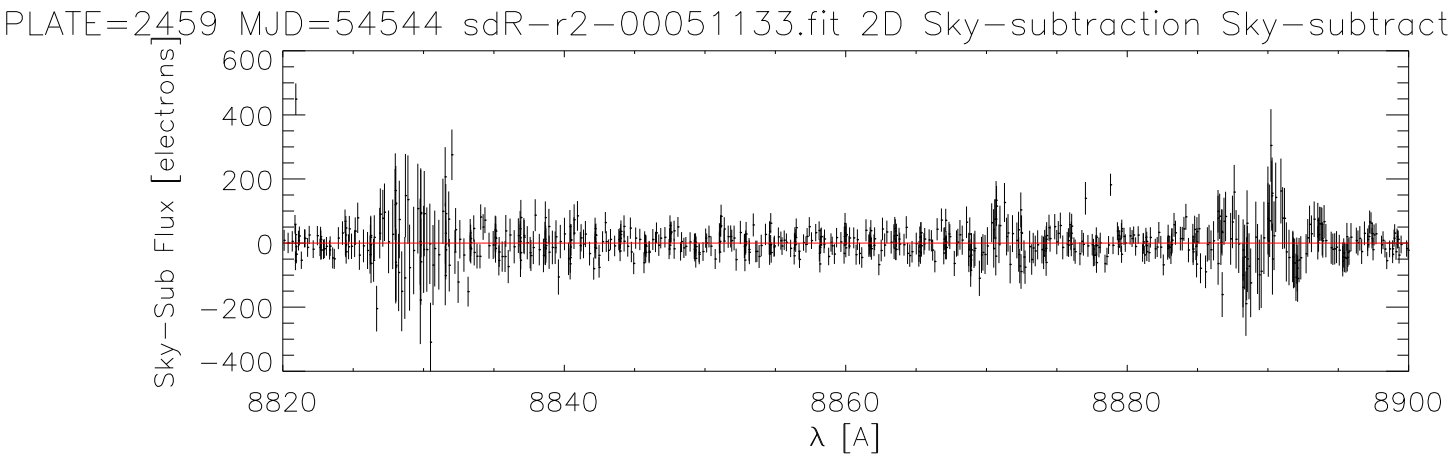

PLATE=2459 MJD=54544 sdR-r2-00051133.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

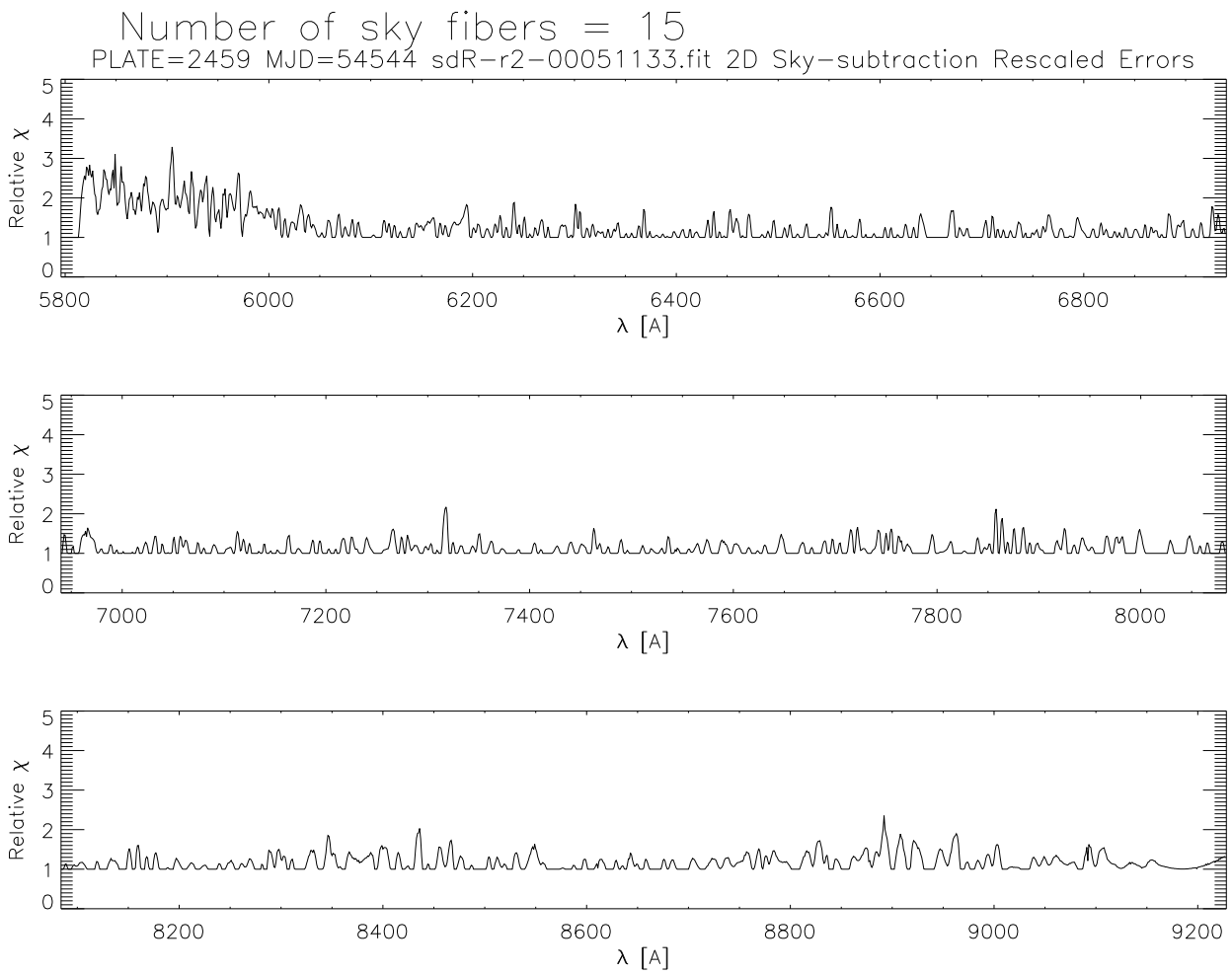

PLATE=2459 MJD=54544 sdR-r2-00051133.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

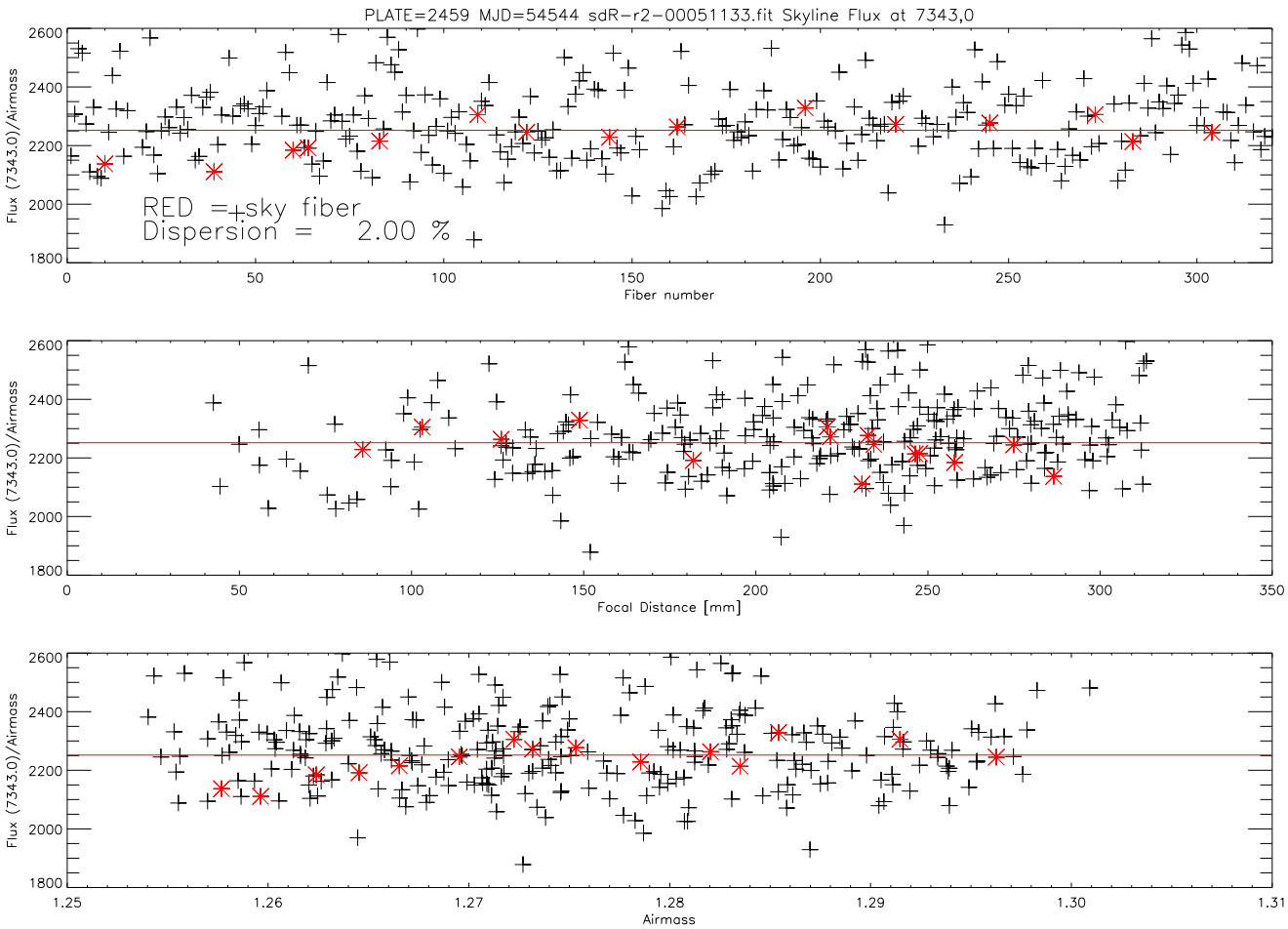

Number of sky fibers = 15
PLATE=2459 MJD=54544 sdR-r2-00051133.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

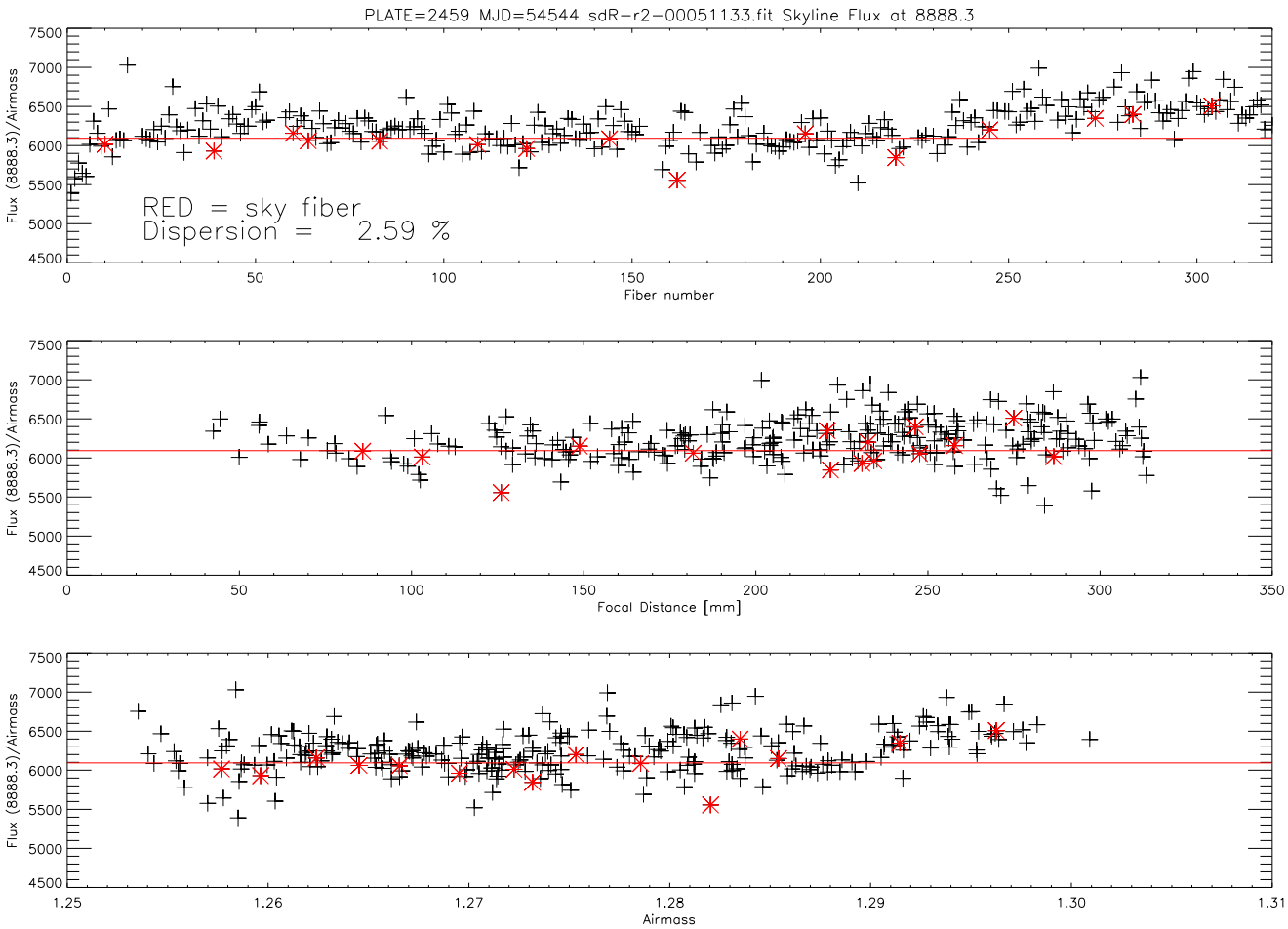

PLATE=2459 MJD=54544 sdR-r2-00051133.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
10
0
-10
-20
50
100
150
200
250
300
Fiber number

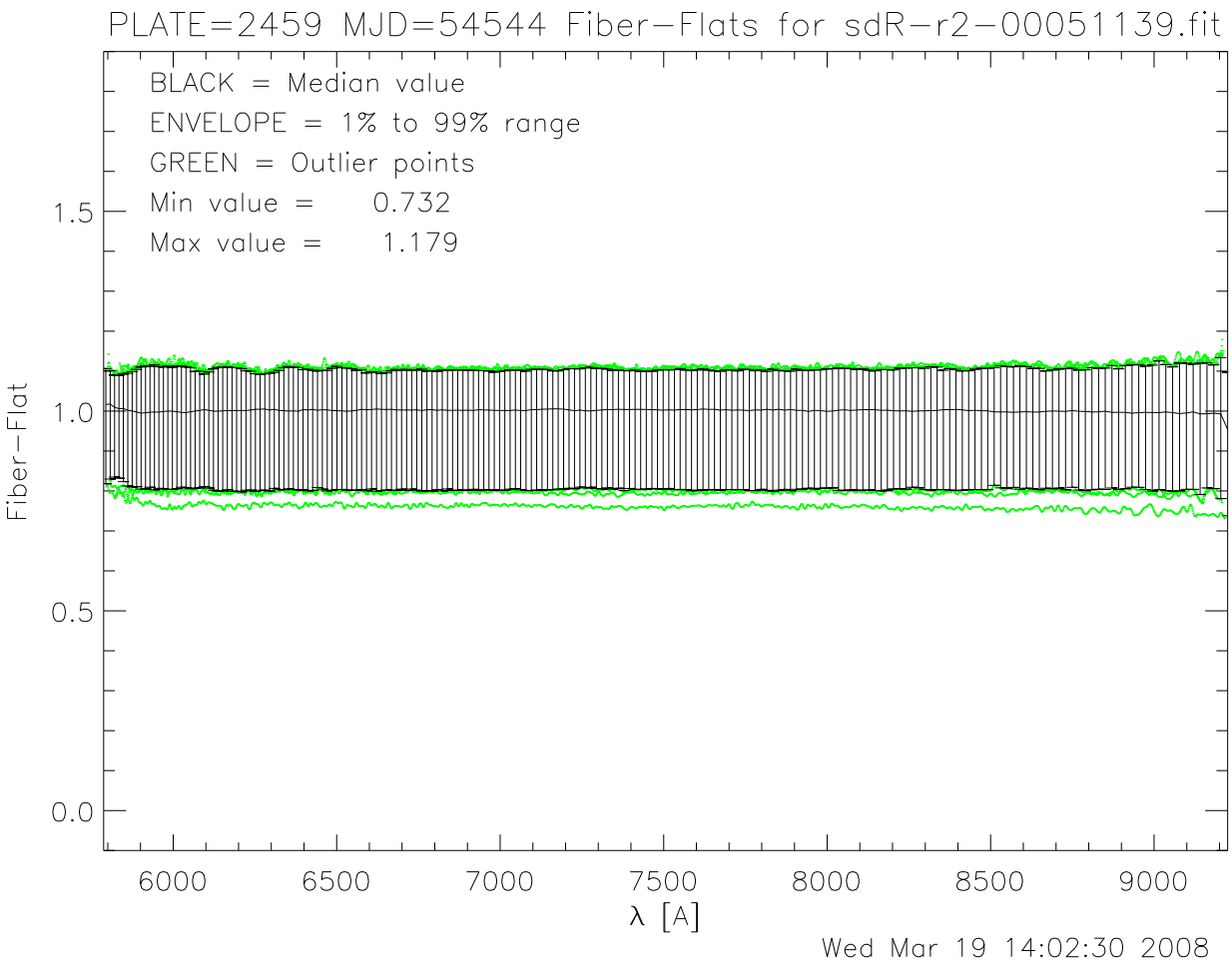

PLATE=2459 MJD=54544 sdR-r2-00051133.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

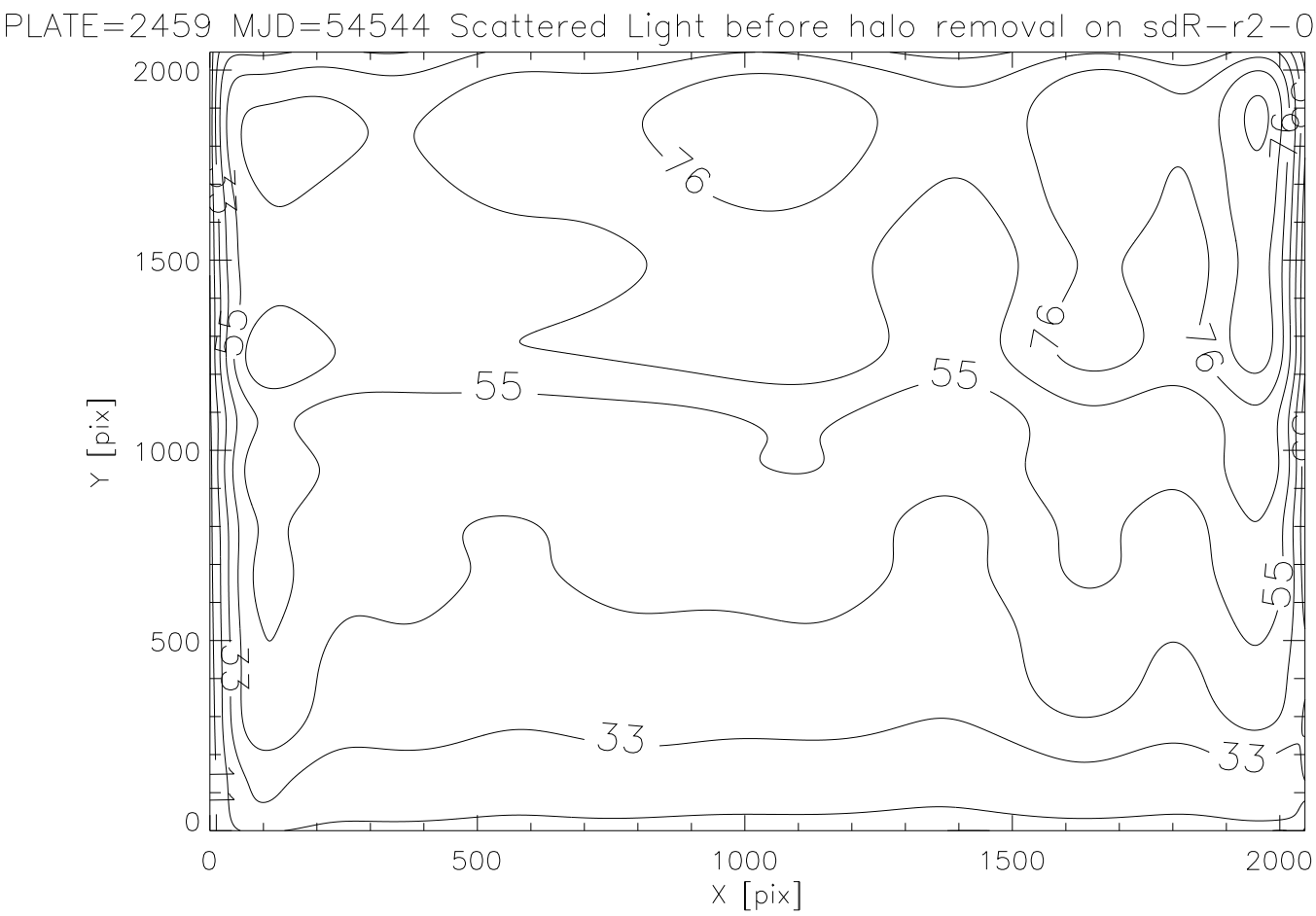

PLATE=2459 MJD=54544 sdR-r2-00051133.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

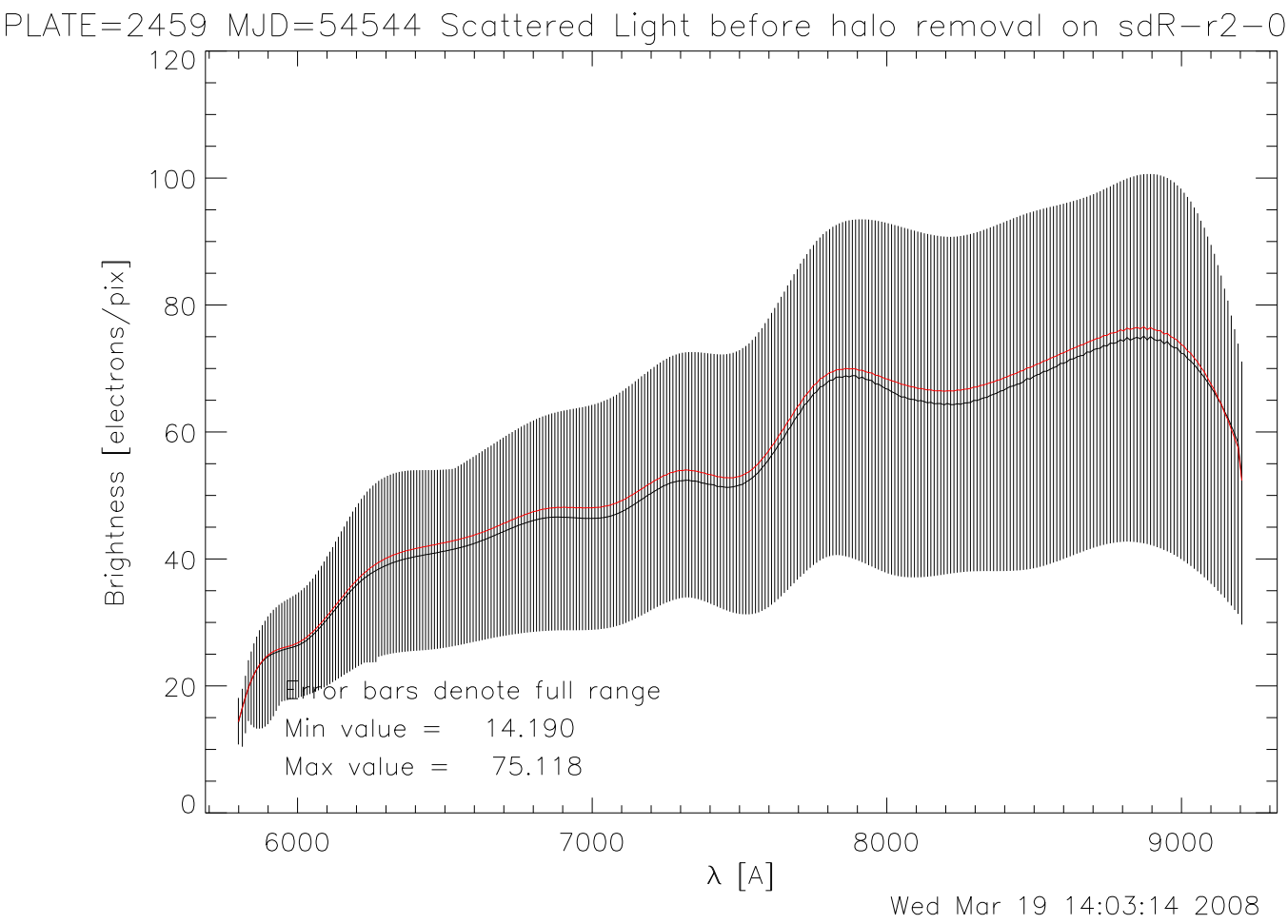

Number of sky fibers = 15
PLATE=2459 MJD=54544 sdR-r2-00051133.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

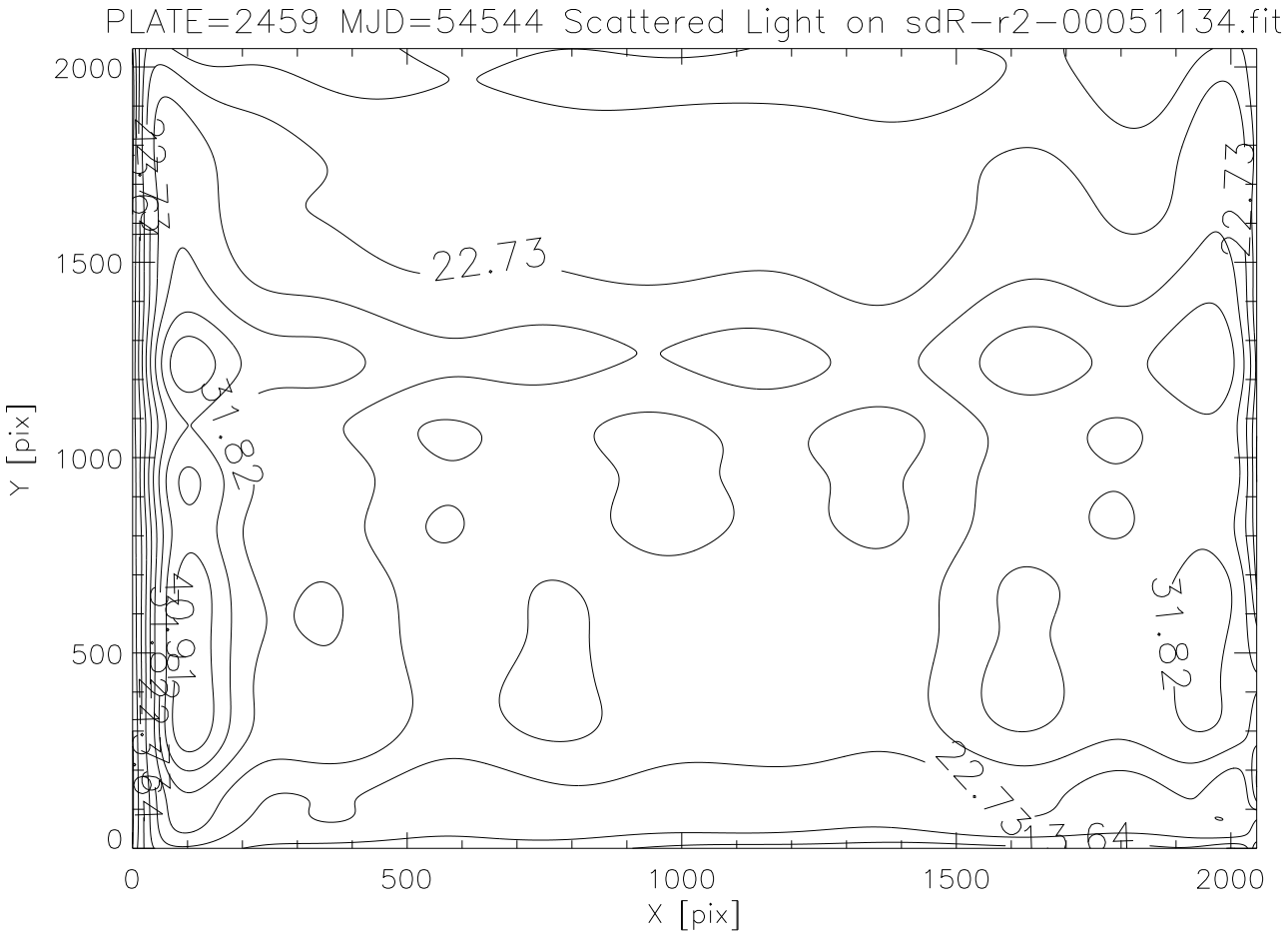

PLATE=2459 MJD=54544 sdR-r2-00051133.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED =+sky fiber
Dispersion = 2.00 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

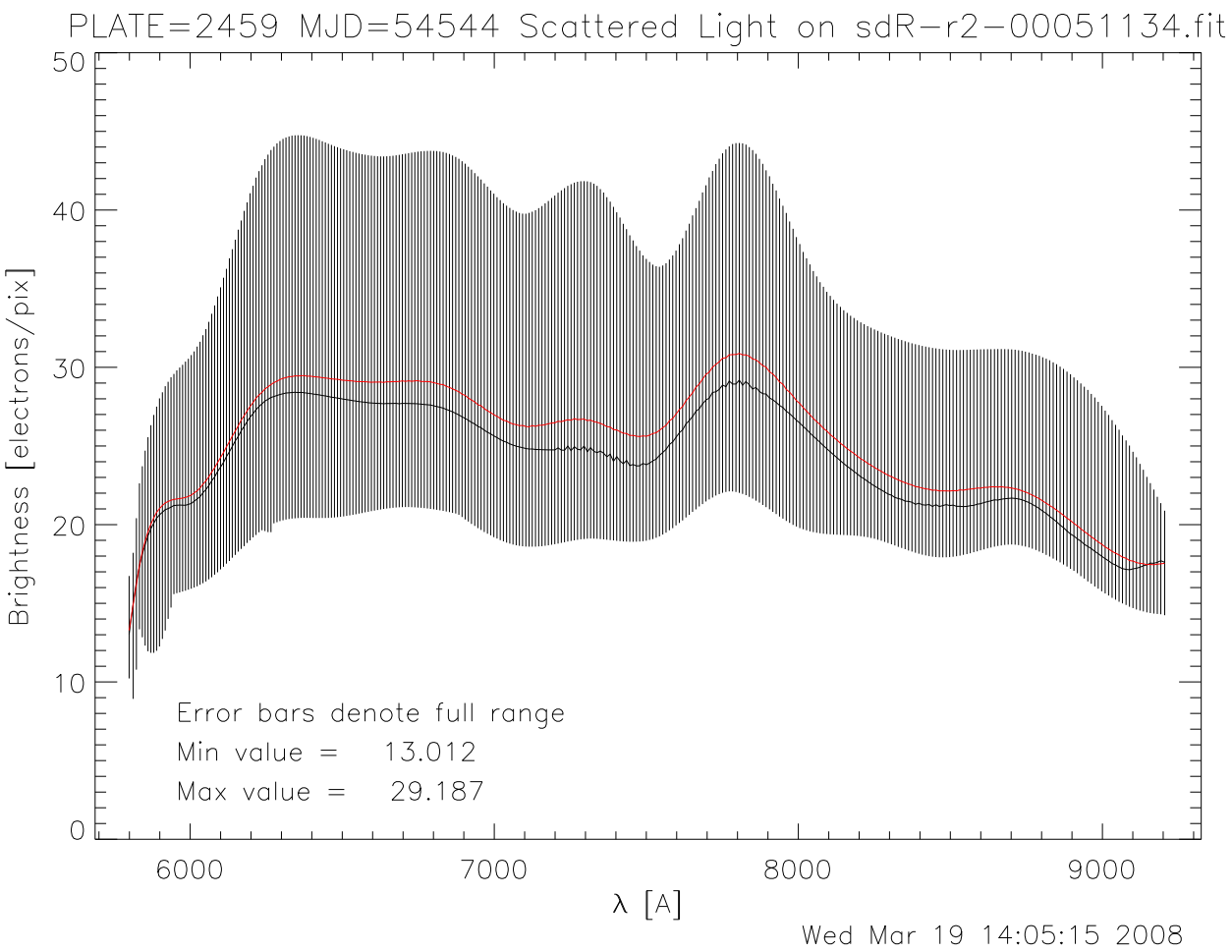

PLATE=2459 MJD=54544 sdR-r2-00051133.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.59 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

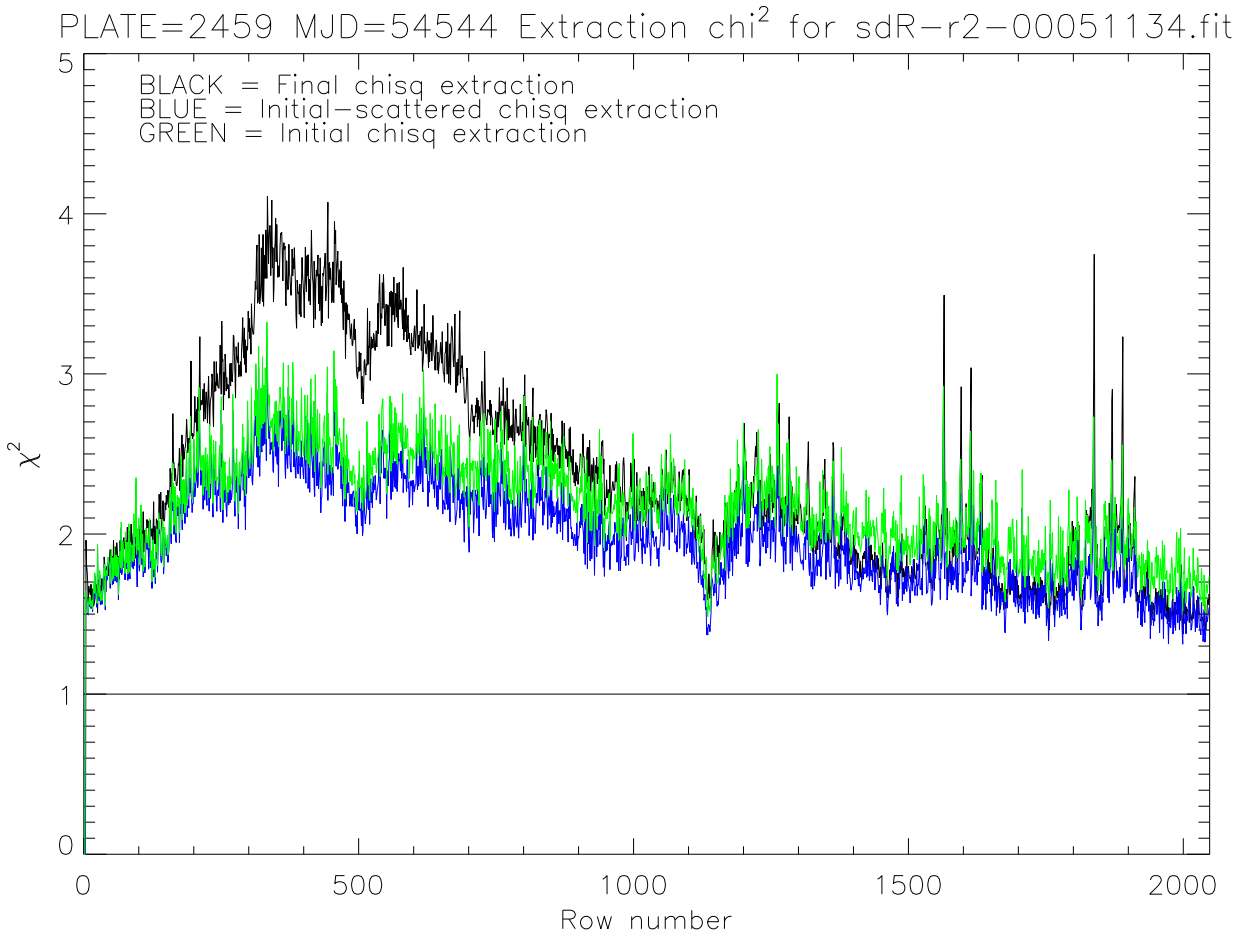

PLATE=2459 MJD=54544 Fiber−Flats for sdR−r2−00051139.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.732
Max value = 1.179
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 19 14:02:30 2008

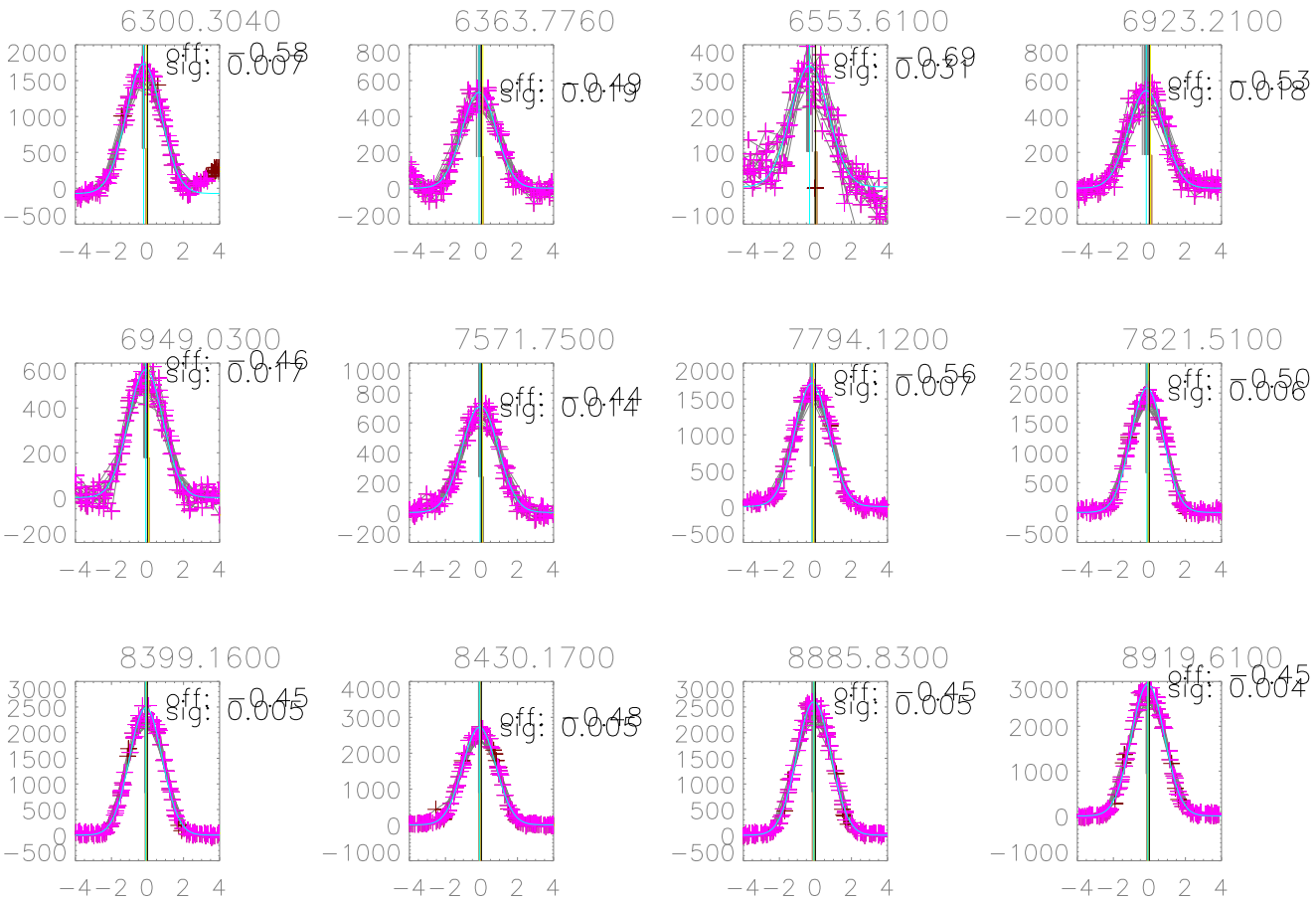

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-r2-00051134.fi
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
76
55
33

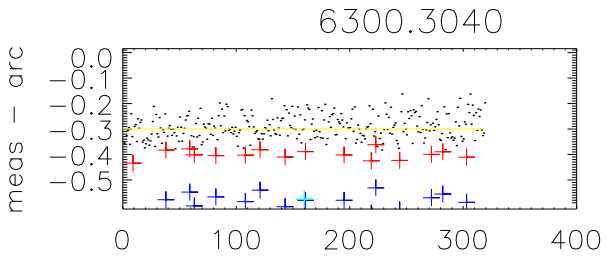

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-r2-00051134.fi
Brightness [electrons/pix]
120
100
80
60
40
20
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 14.190
Max value = 75.118
Wed Mar 19 14:03:14 2008

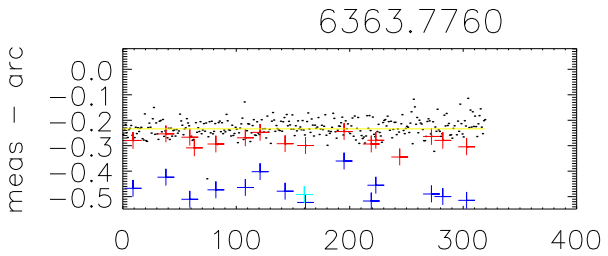

PLATE=2459 MJD=54544 Scattered Light on sdR-r2-00051134.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
22.73
31.82
40.91
13.64

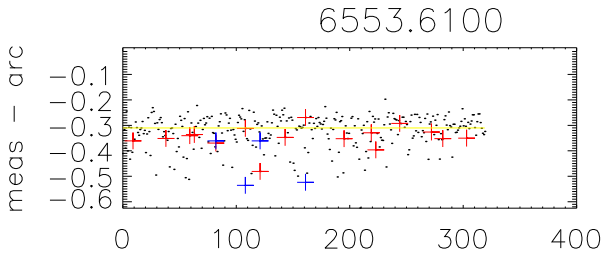

PLATE=2459 MJD=54544 Scattered Light on sdR-r2-00051134.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 13.012
Max value = 29.187
Wed Mar 19 14:05:15 2008

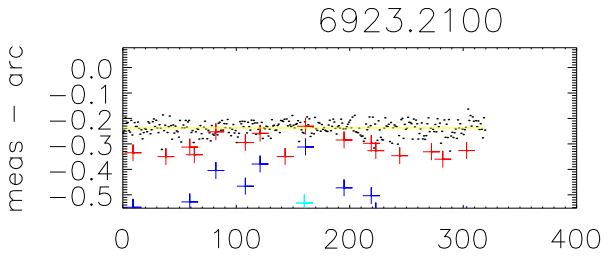

PLATE=2459 MJD=54544 Extraction chi^2 for sdR−r2−00051134.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

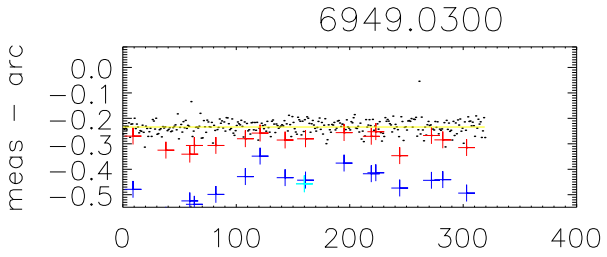

6300.3040
off: −0.58
sig: 0.007
6363.7760
off: −0.49
sig: 0.019
6553.6100
off: −0.69
sig: 0.031
6923.2100
off: −0.53
sig: 0.018
6949.0300
off: −0.46
sig: 0.017
7571.7500
off: −0.44
sig: 0.014
7794.1200
off: −0.56
sig: 0.007
7821.5100
off: −0.50
sig: 0.006
8399.1600
off: −0.45
sig: 0.005
8430.1700
off: −0.48
sig: 0.005
8885.8300
off: −0.45
sig: 0.005
8919.6100
off: −0.45
sig: 0.004

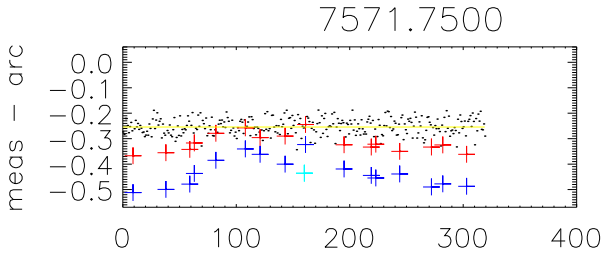

6300.3040
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

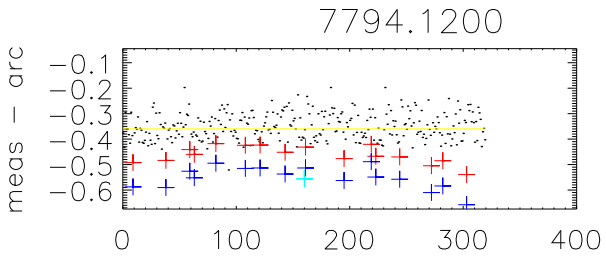

6363.7760
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

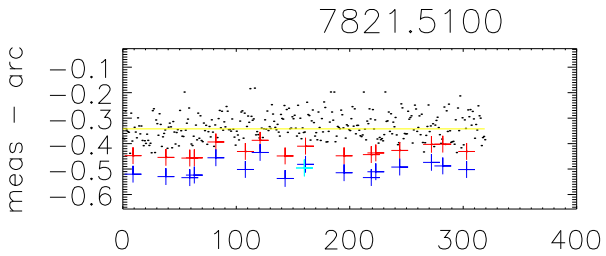

6553.6100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

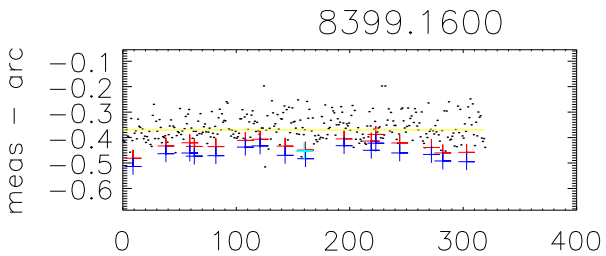

6923.2100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

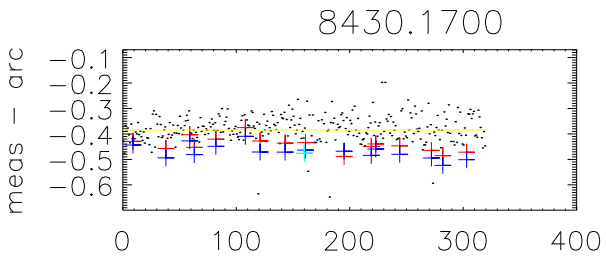

6949.0300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

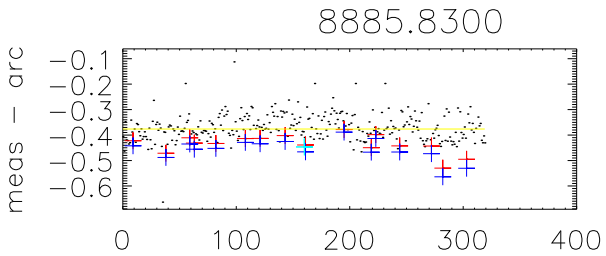

7571.7500
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

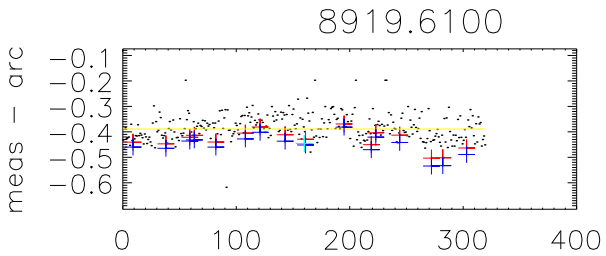

7794.1200
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

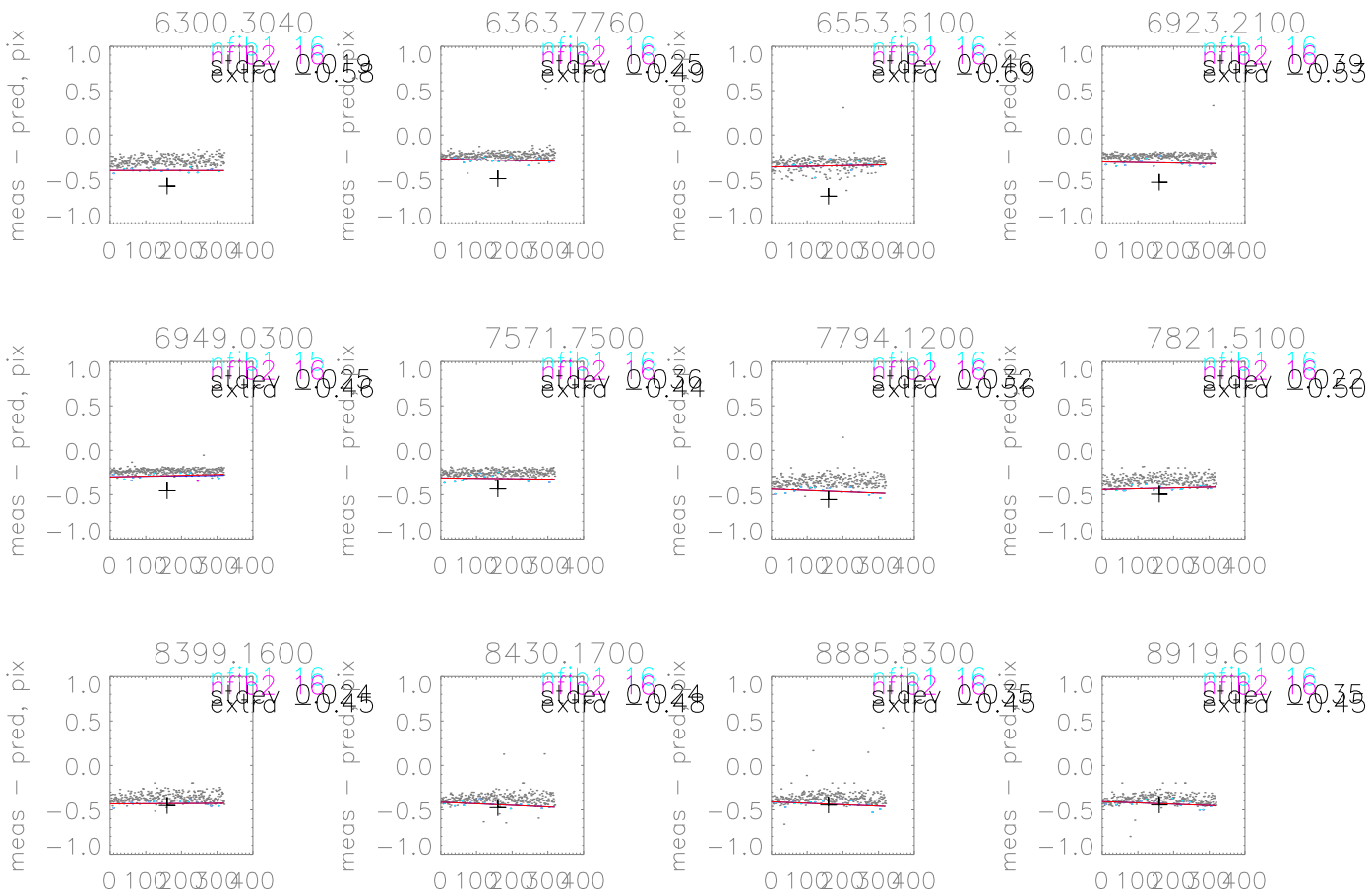

7821.5100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

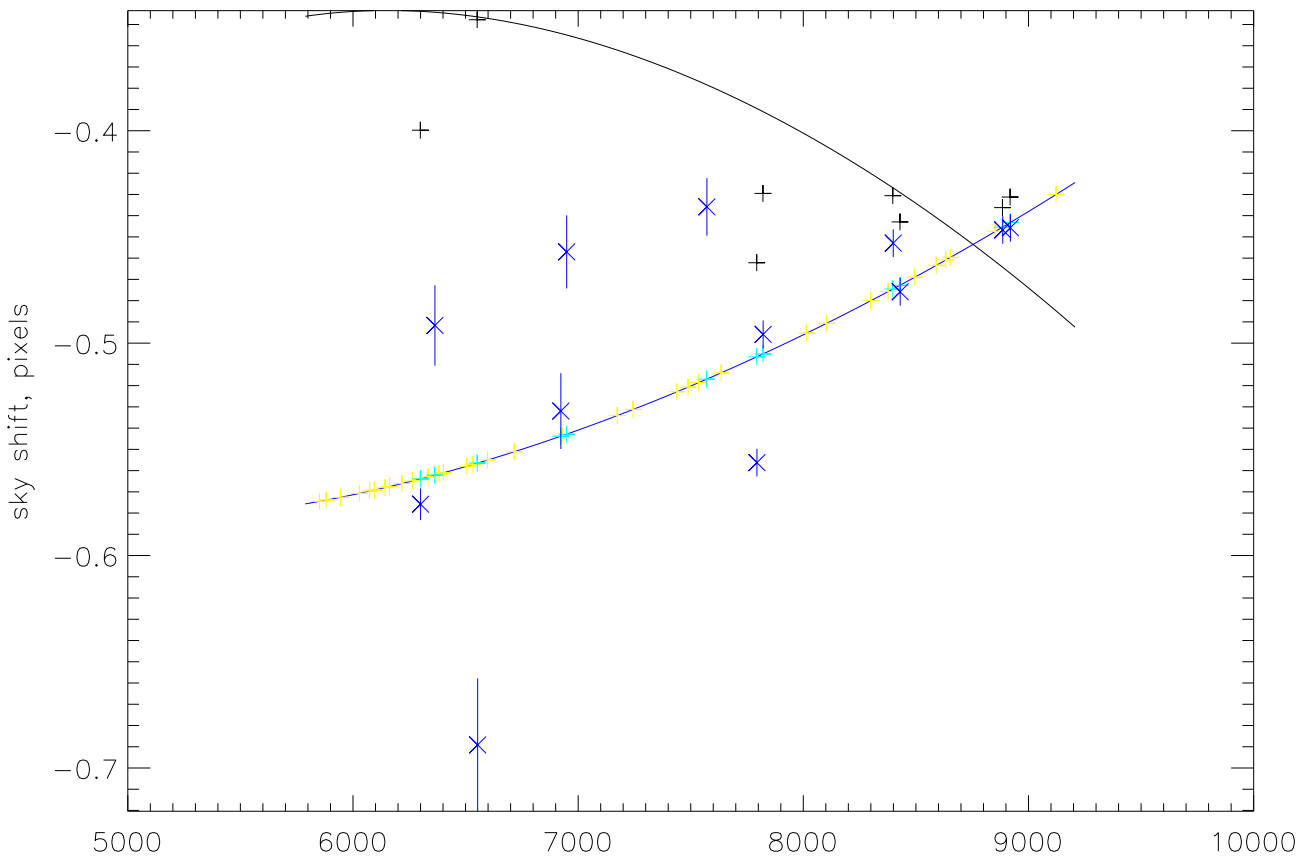

8399.1600
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

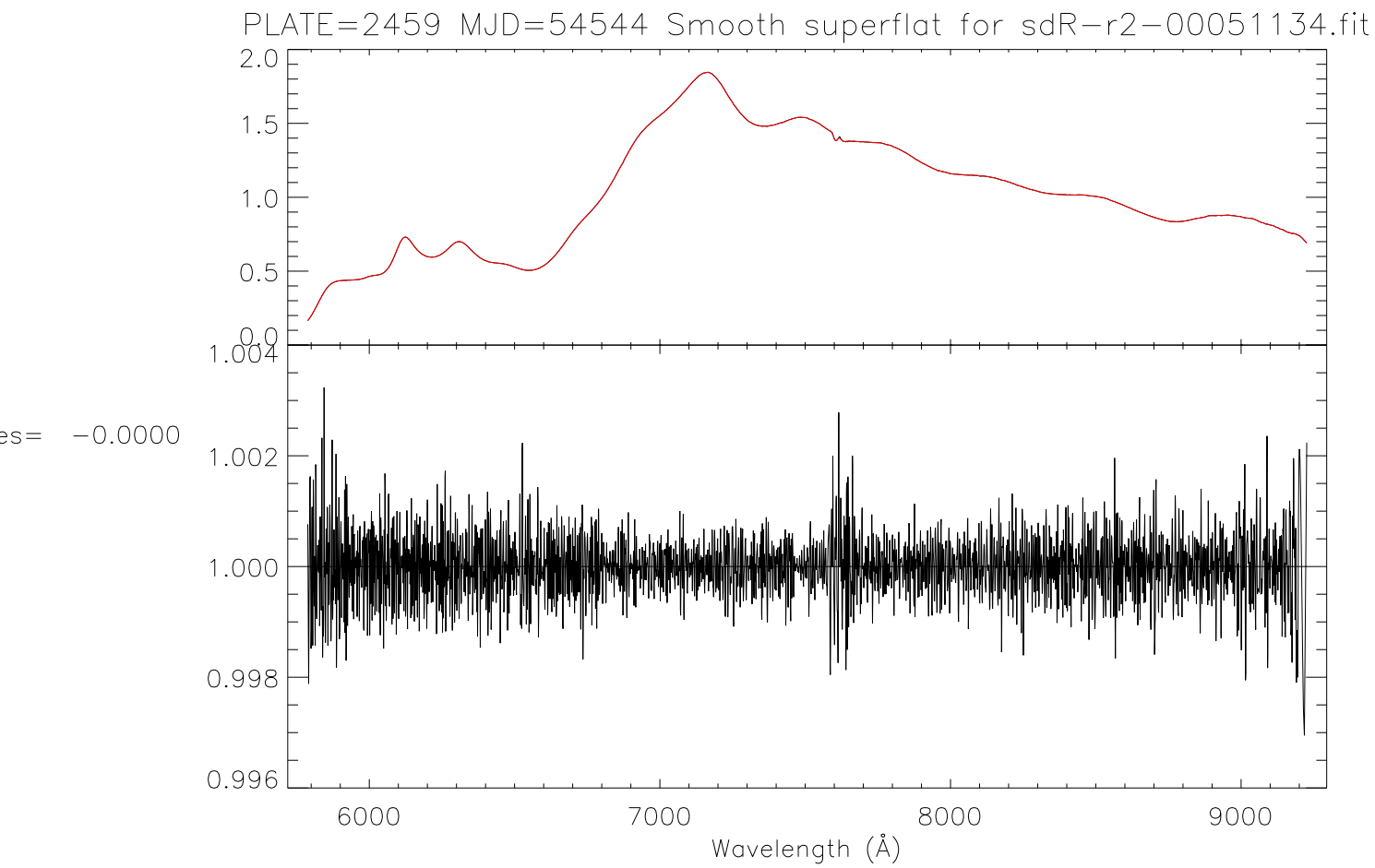

8430.1700
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

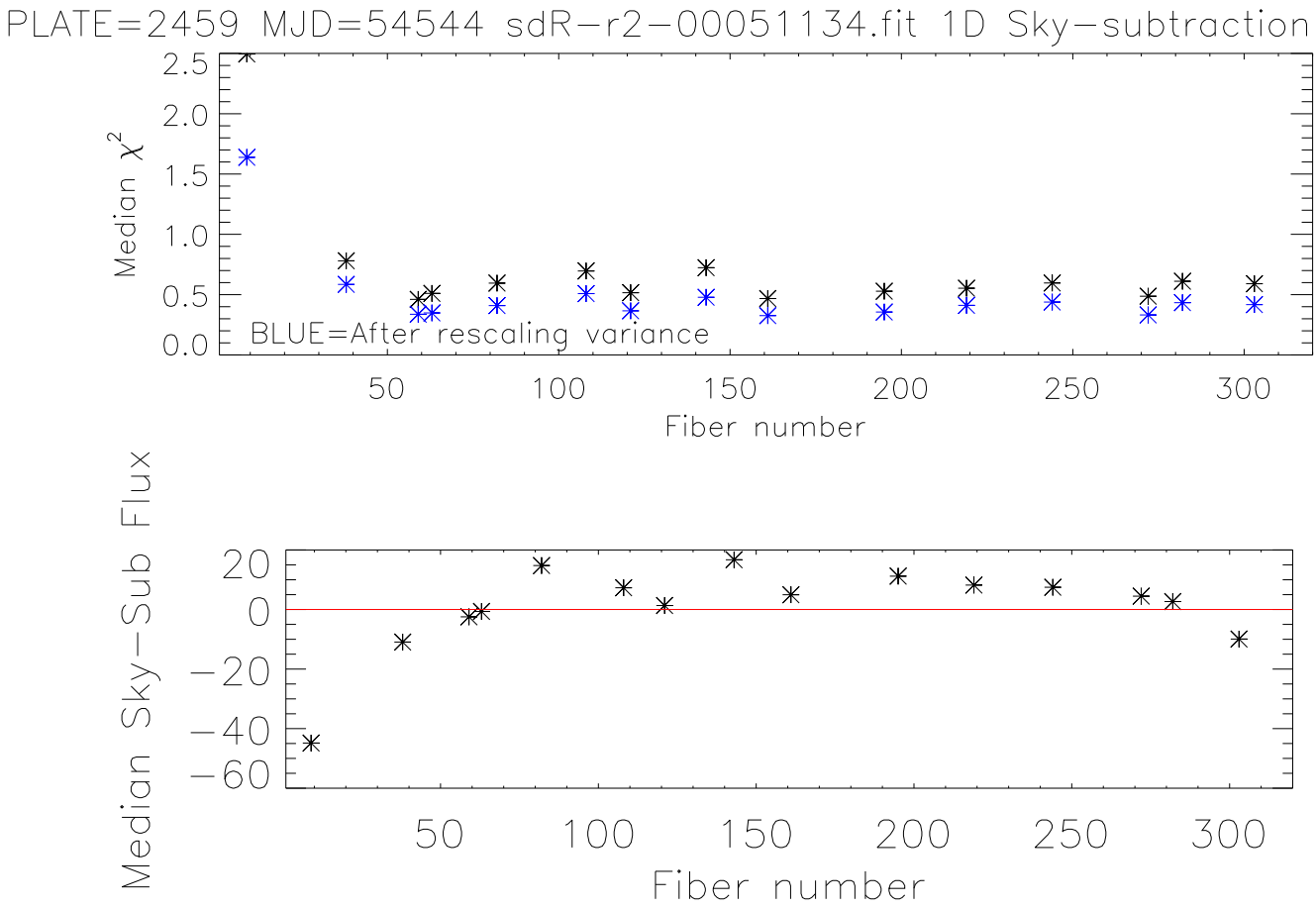

8885.8300
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

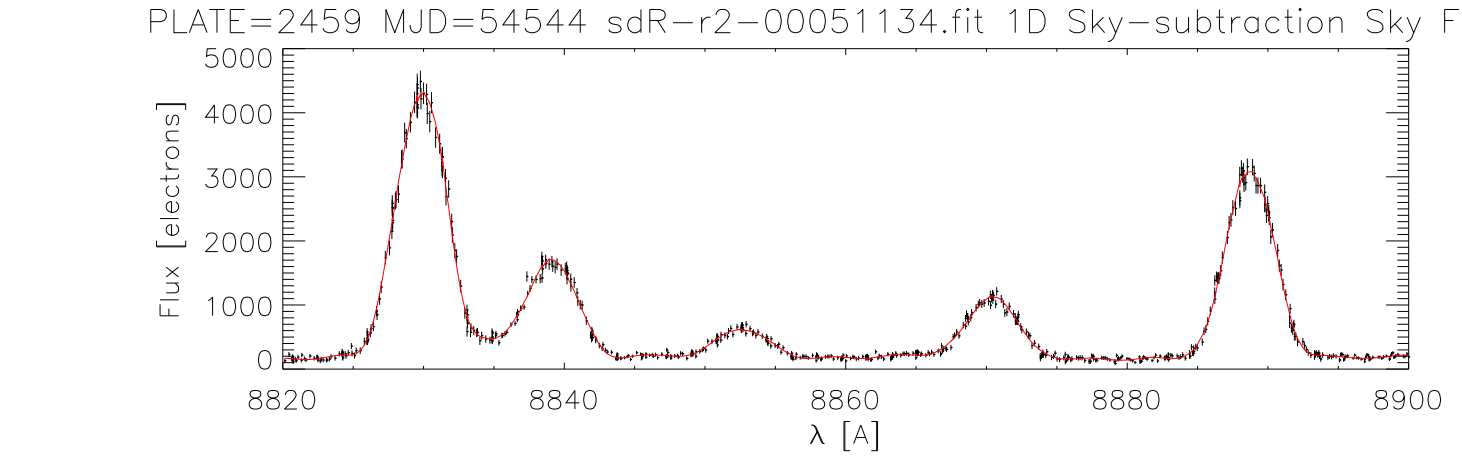

8919.6100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

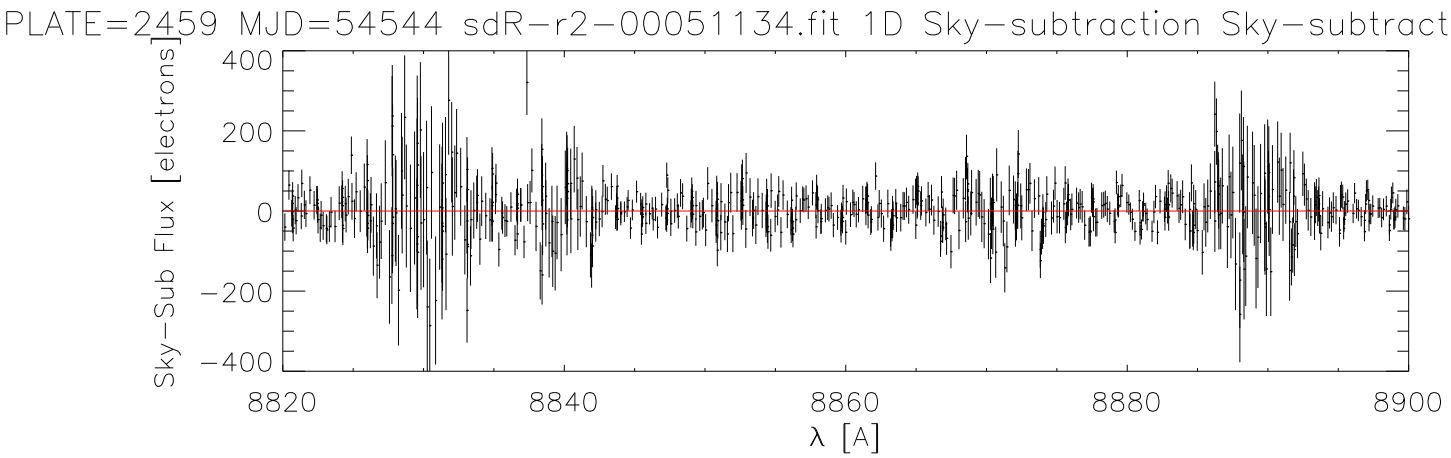

6300.3040
6363.7760
6553.6100
6923.2100
6949.0300
7571.7500
7794.1200
7821.5100
8399.1600
8430.1700
8885.8300
8919.6100
meas − pred, pix
mfhs1 16
mfhs2 16
stdev 0.019
extrd 0.58
stdev 0.025
extrd 0.49
stdev 0.046
extrd 0.69
stdev 0.039
extrd 0.53
stdev 0.025
extrd 0.48
stdev 0.036
extrd 0.44
stdev 0.032
extrd 0.56
stdev 0.022
extrd 0.50
stdev 0.024
extrd 0.45
stdev 0.024
extrd 0.48
stdev 0.035
extrd 0.45
stdev 0.035
extrd 0.45

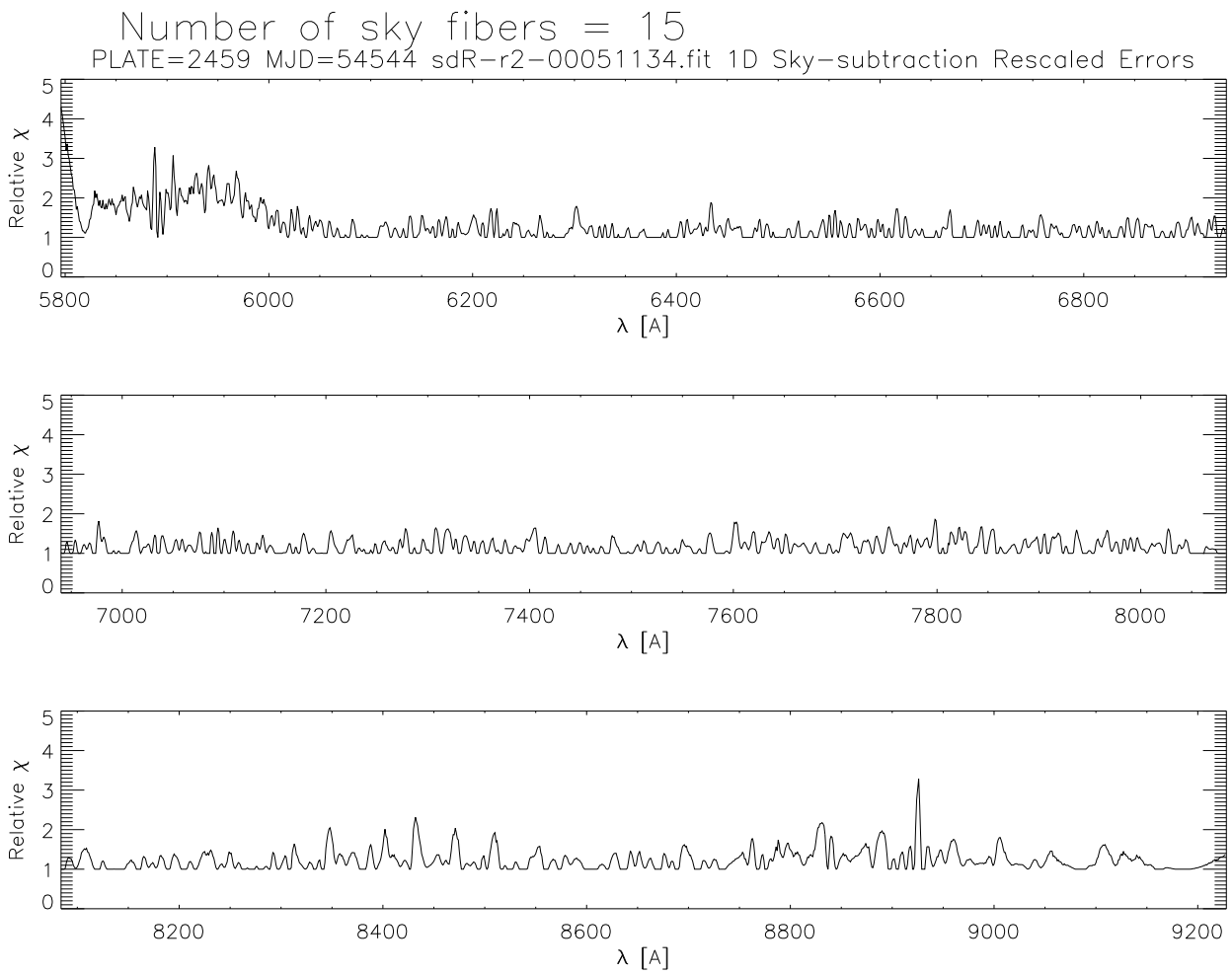

sky shift, pixels
−0.4
−0.5
−0.6
−0.7
5000
6000
7000
8000
9000
10000

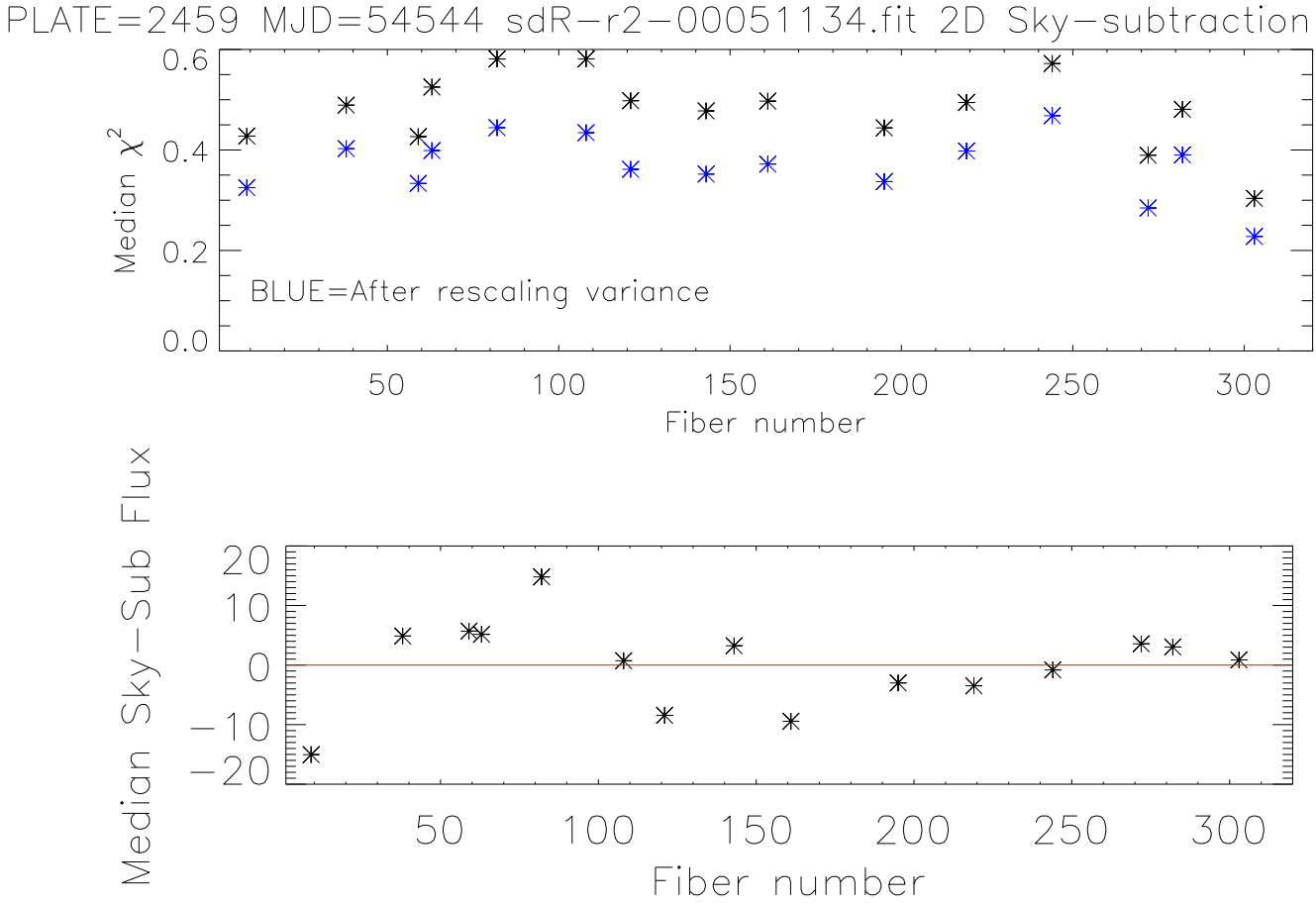

PLATE=2459 MJD=54544 Smooth superflat for sdR-r2-00051134.fit
2.0
1.5
1.0
0.5
0.0
1.004
1.002
1.000
0.998
0.996
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

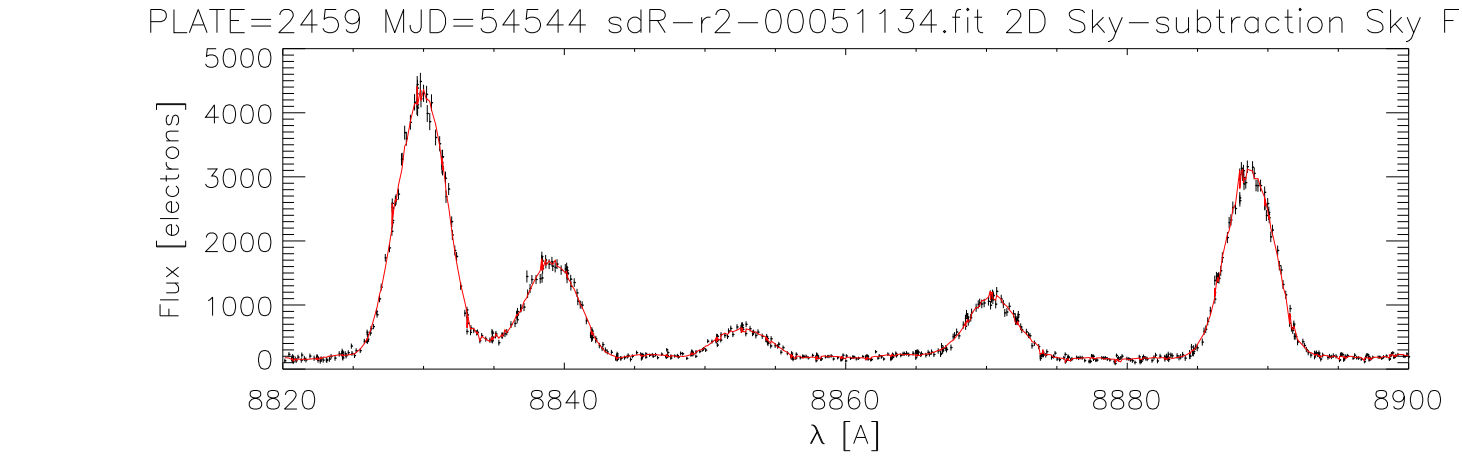

PLATE=2459 MJD=54544 sdR-r2-00051134.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

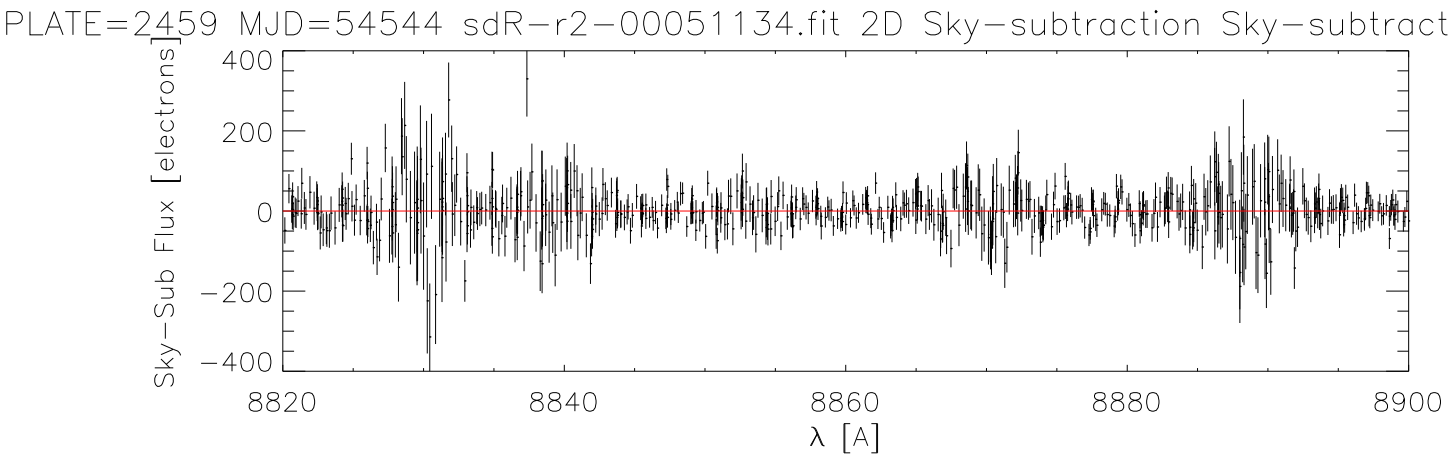

PLATE=2459 MJD=54544 sdR-r2-00051134.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

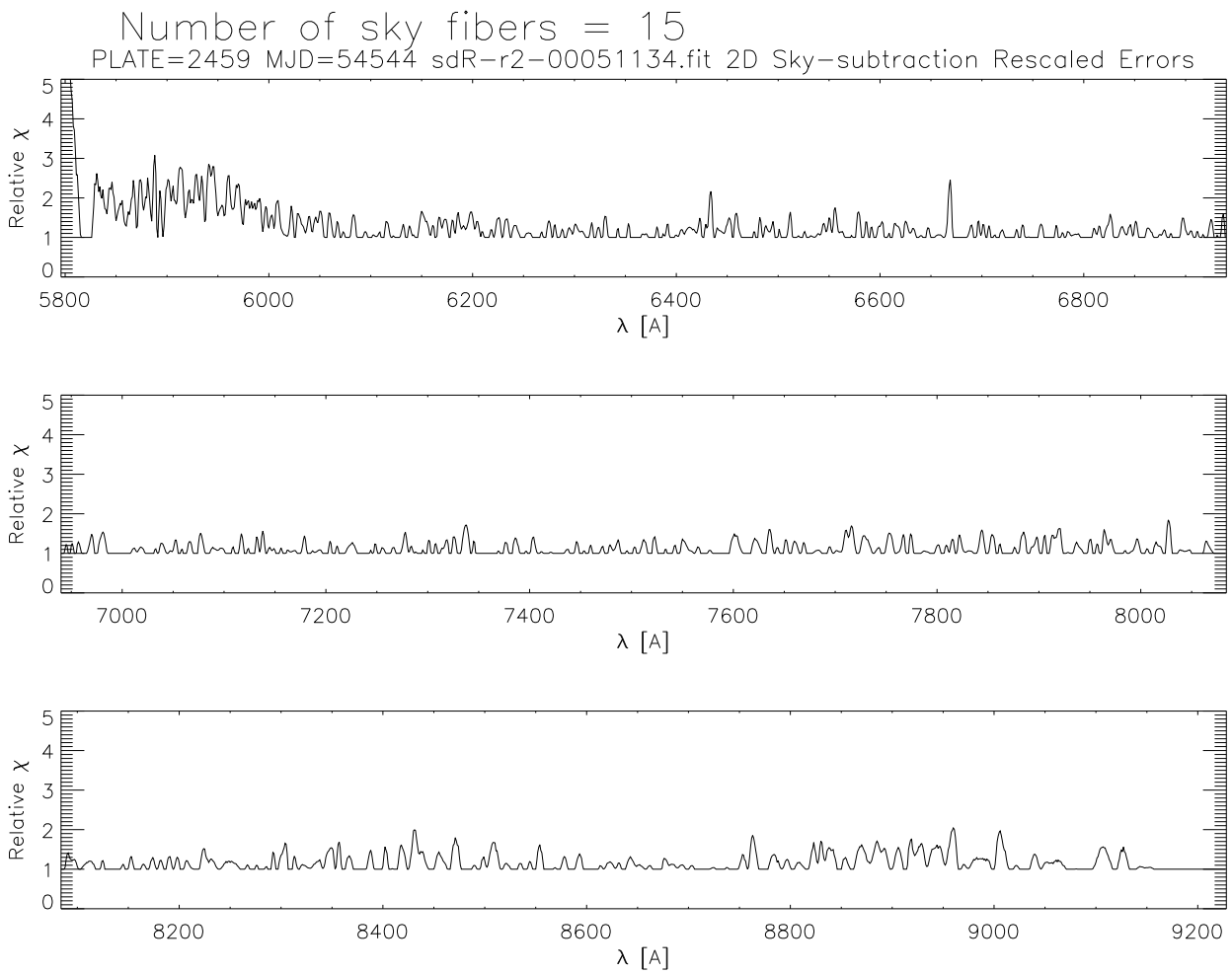

PLATE=2459 MJD=54544 sdR-r2-00051134.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

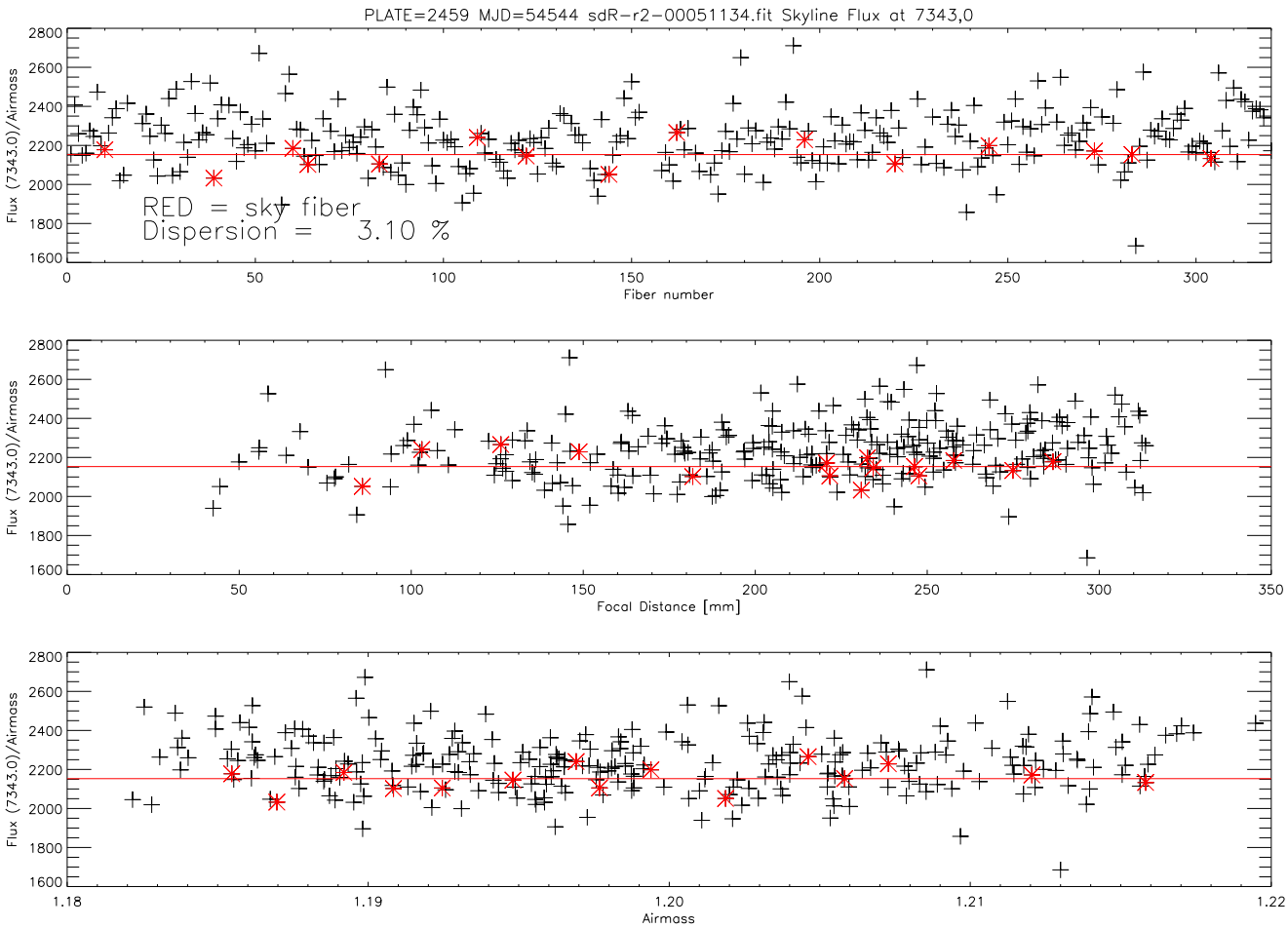

Number of sky fibers = 15
PLATE=2459 MJD=54544 sdR-r2-00051134.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

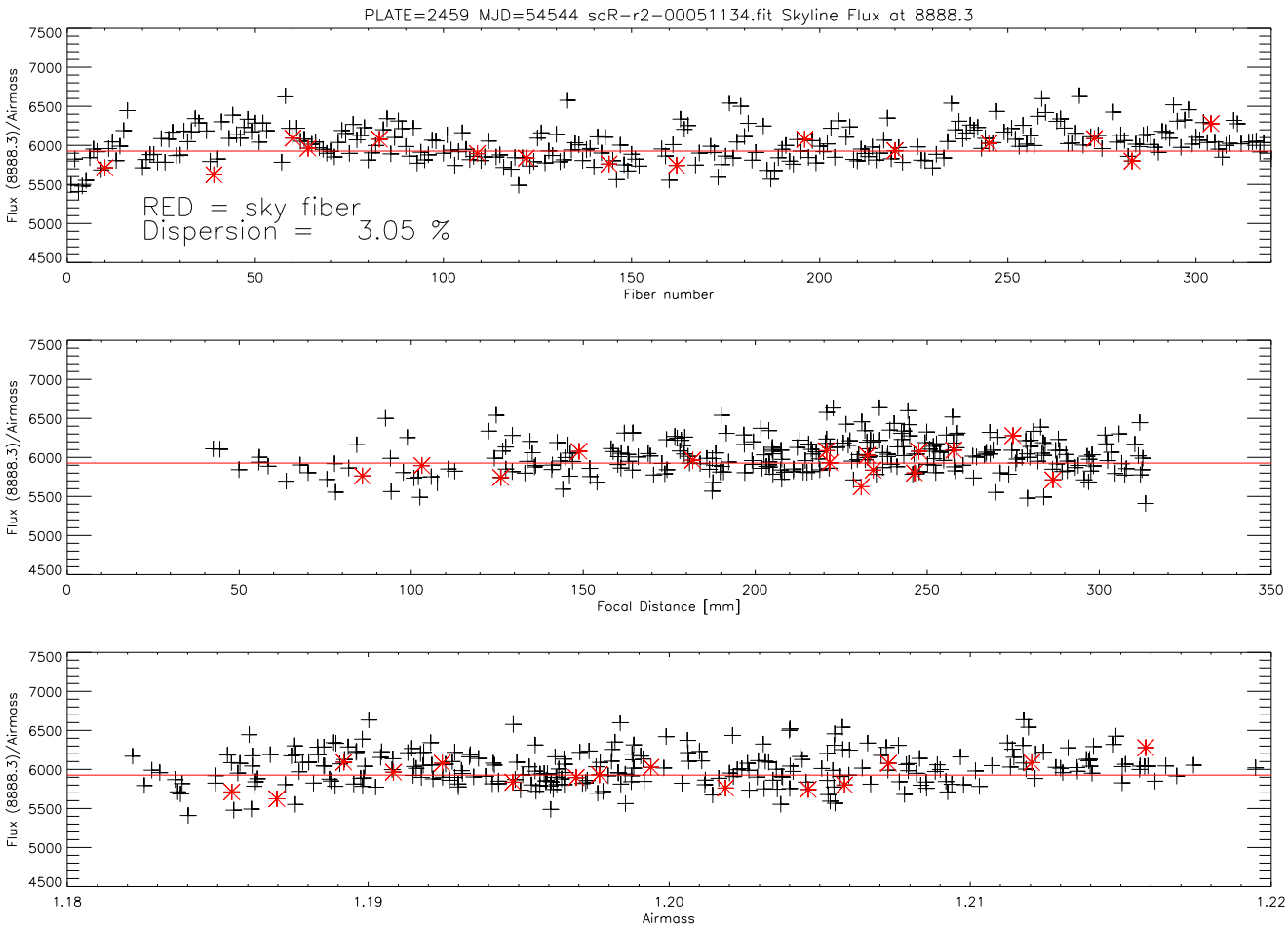

PLATE=2459 MJD=54544 sdR-r2-00051134.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
10
0
-10
-20
50
100
150
200
250
300
Fiber number

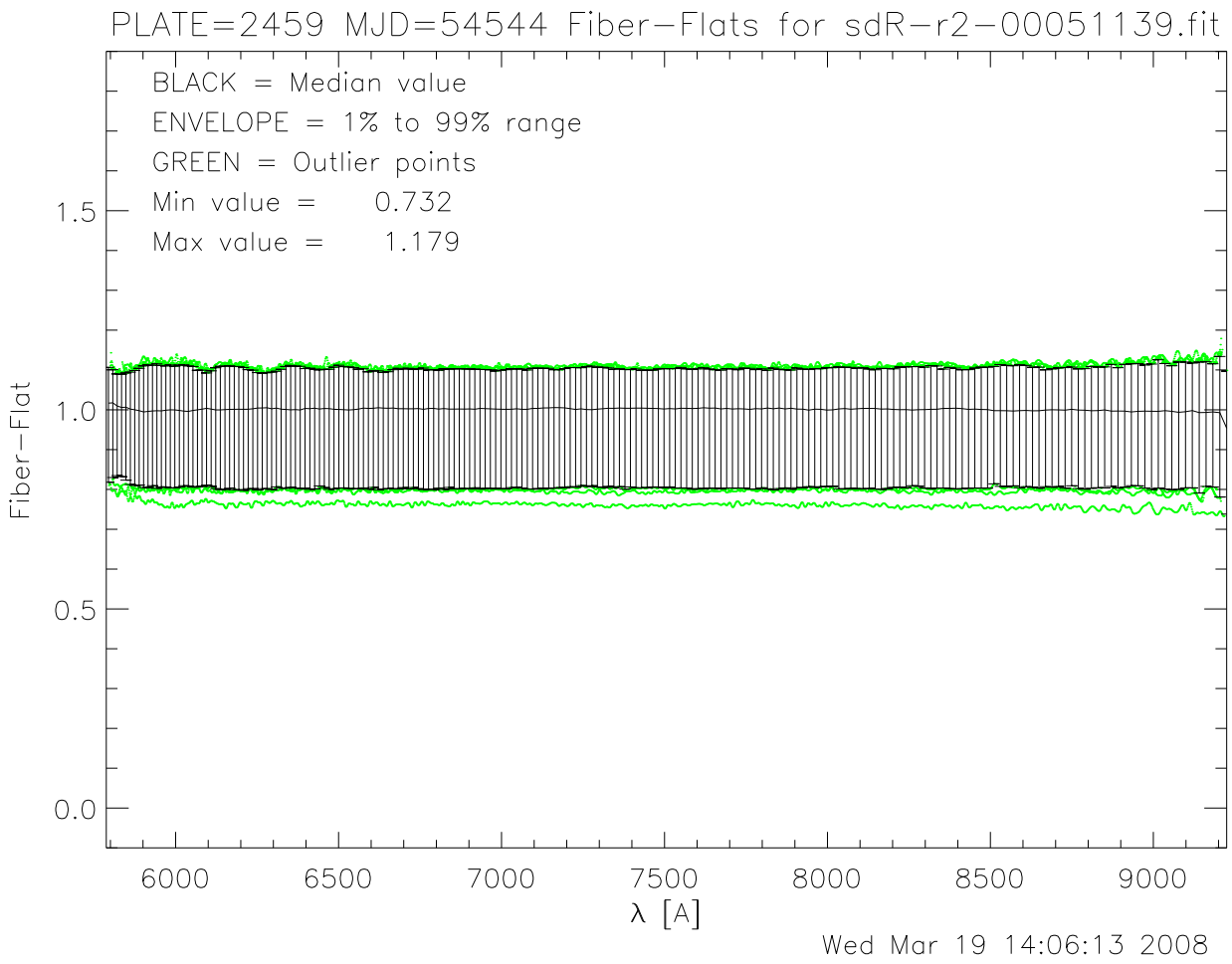

PLATE=2459 MJD=54544 sdR-r2-00051134.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

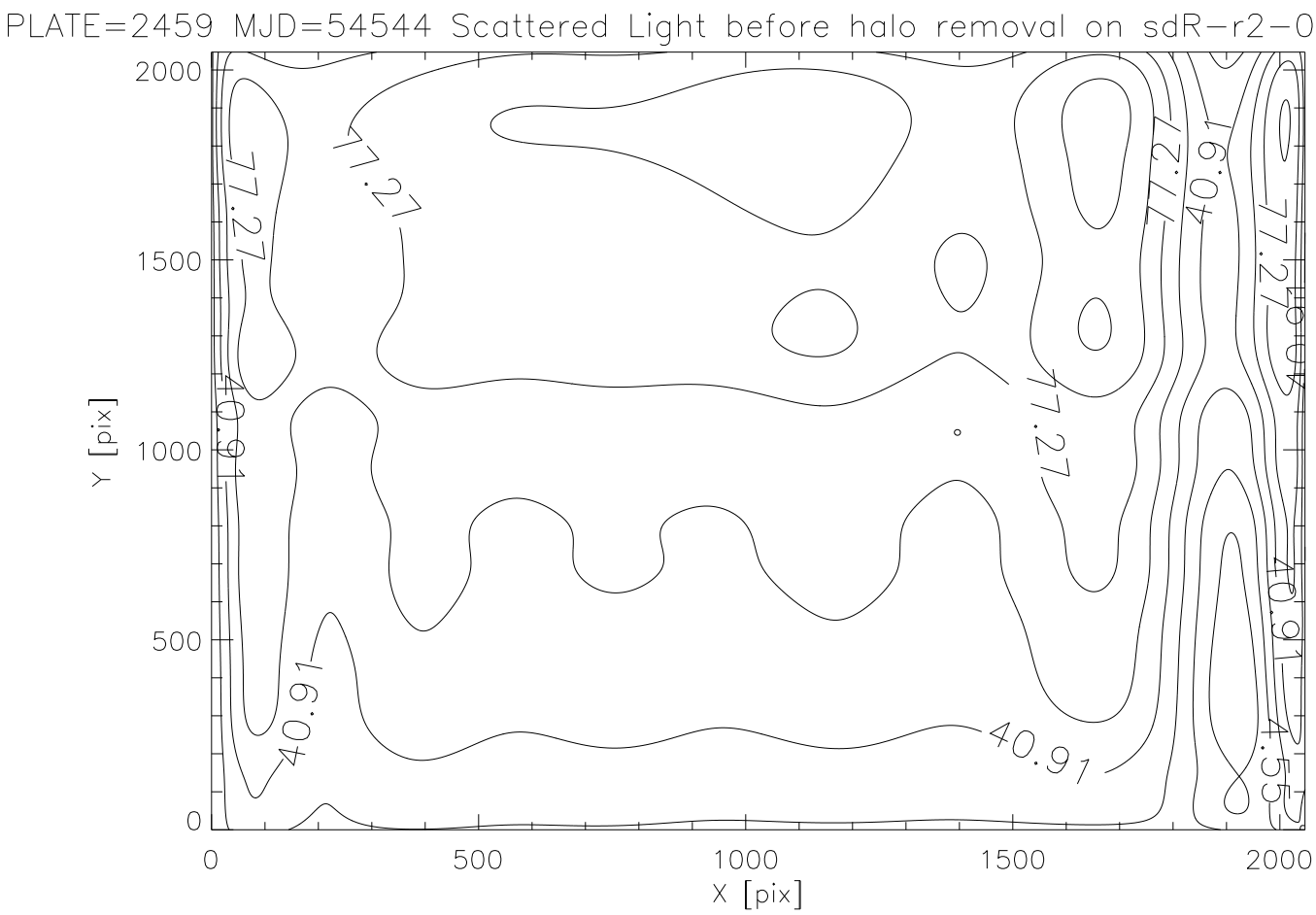

PLATE=2459 MJD=54544 sdR-r2-00051134.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

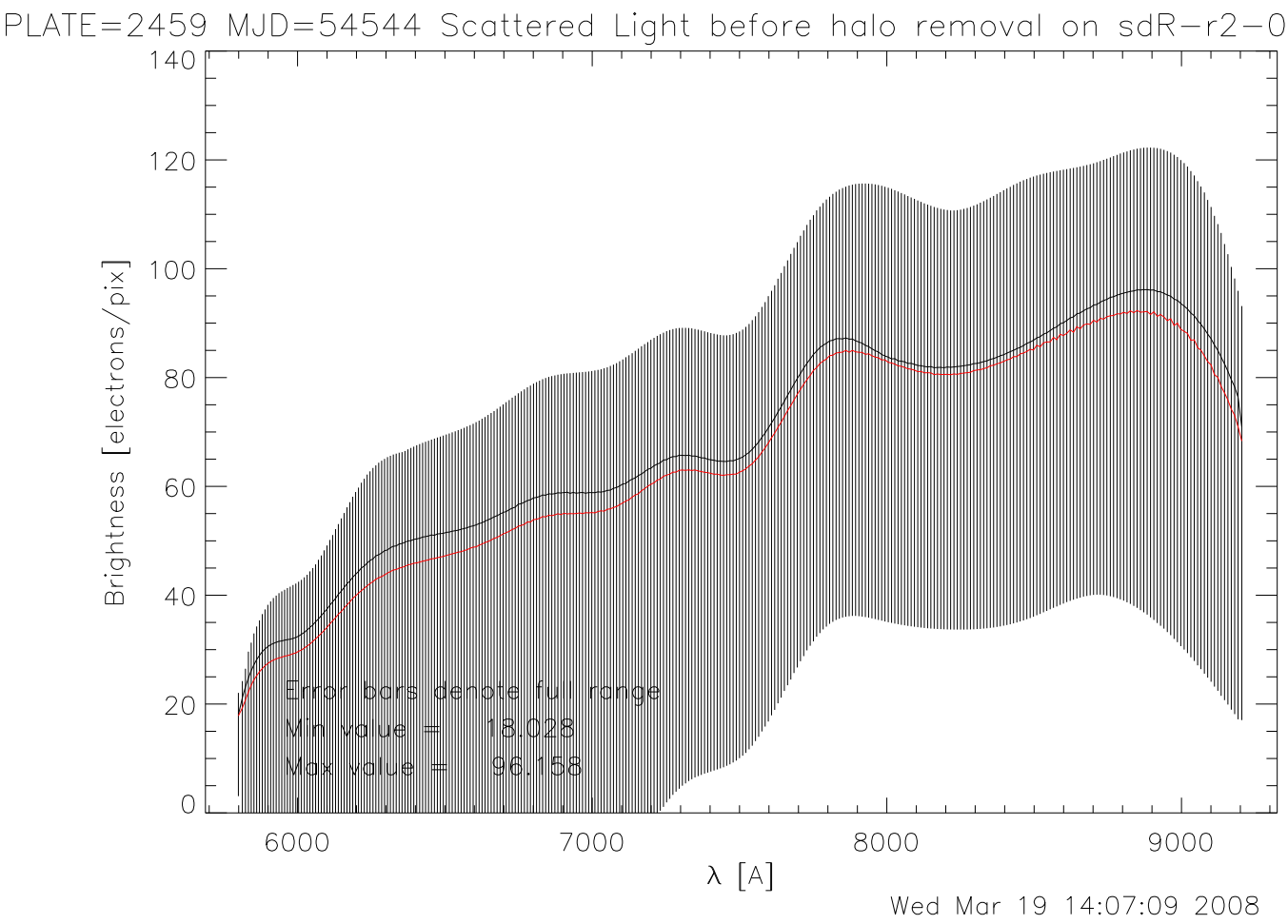

Number of sky fibers = 15
PLATE=2459 MJD=54544 sdR-r2-00051134.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

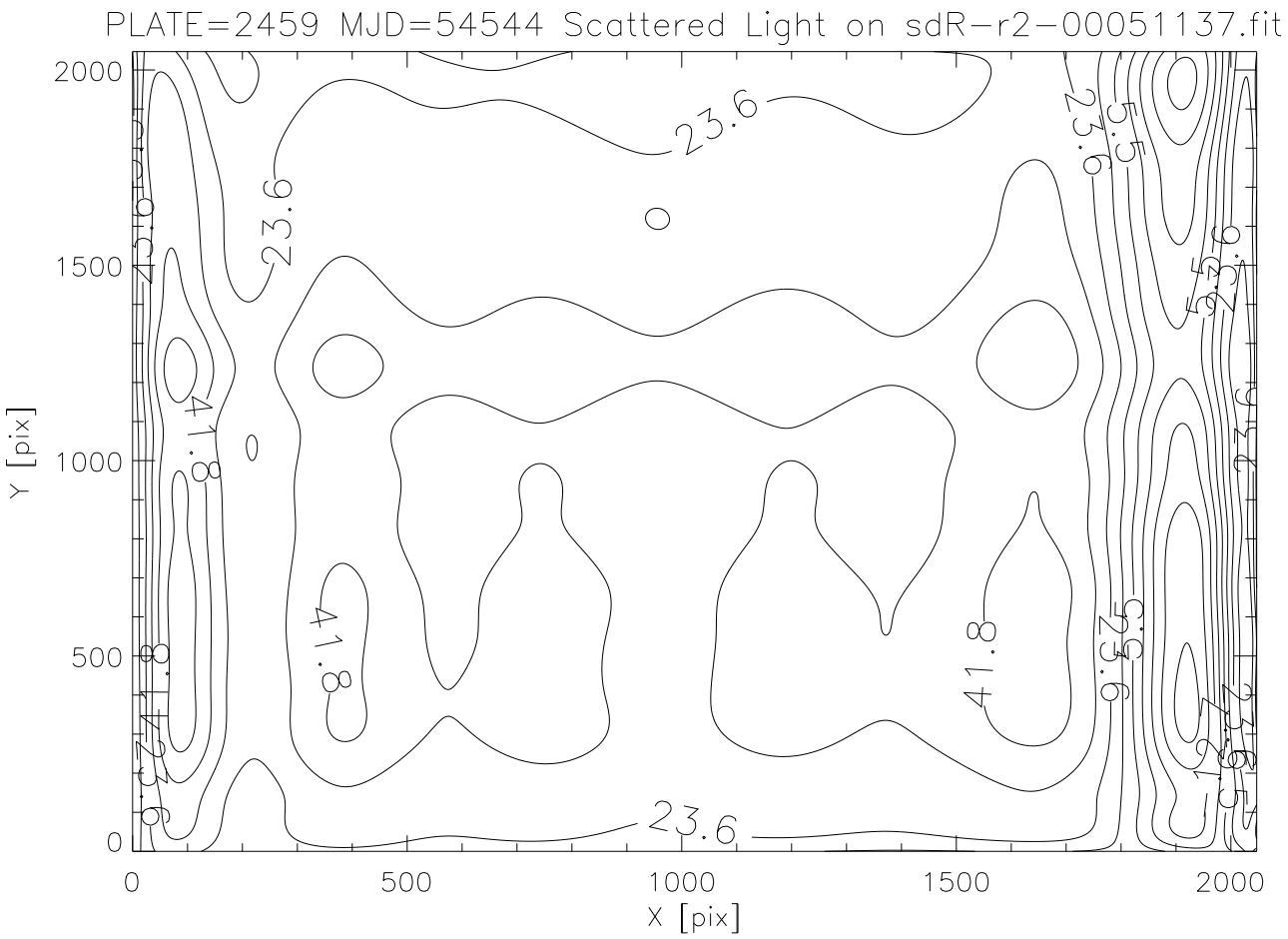

PLATE=2459 MJD=54544 sdR-r2-00051134.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.10 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

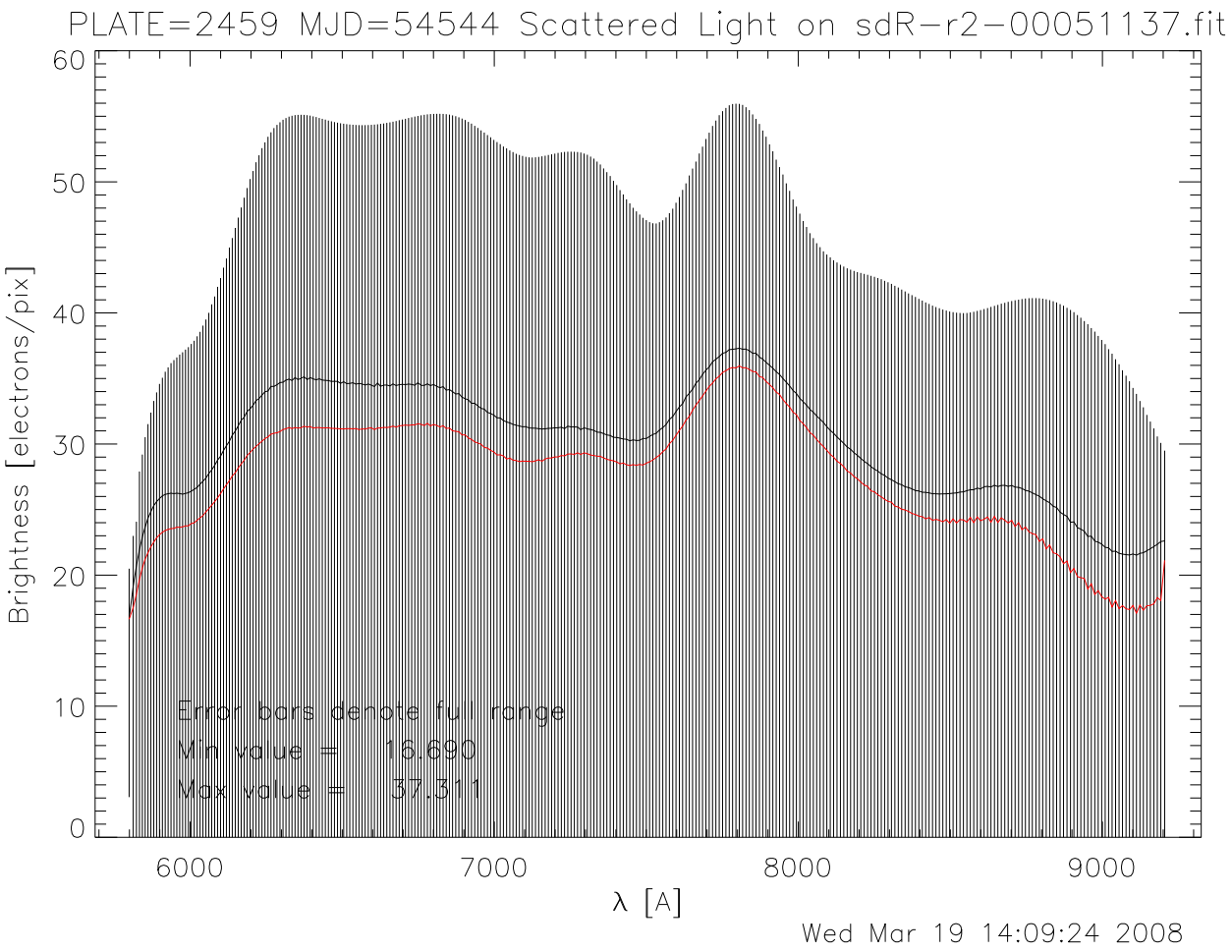

PLATE=2459 MJD=54544 sdR-r2-00051134.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.05 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

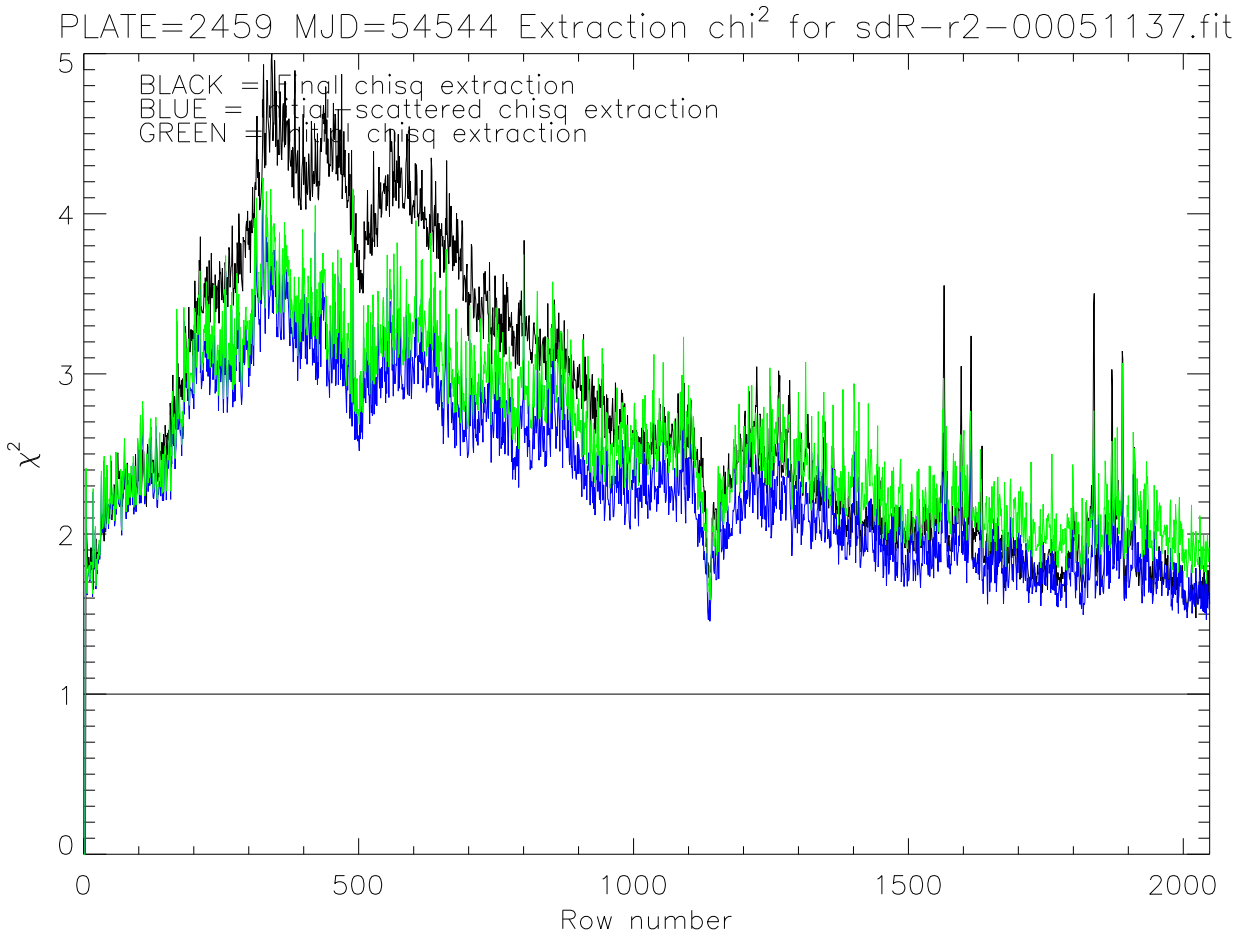

PLATE=2459 MJD=54544 Fiber−Flats for sdR−r2−00051139.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.732
Max value = 1.179
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 19 14:06:13 2008

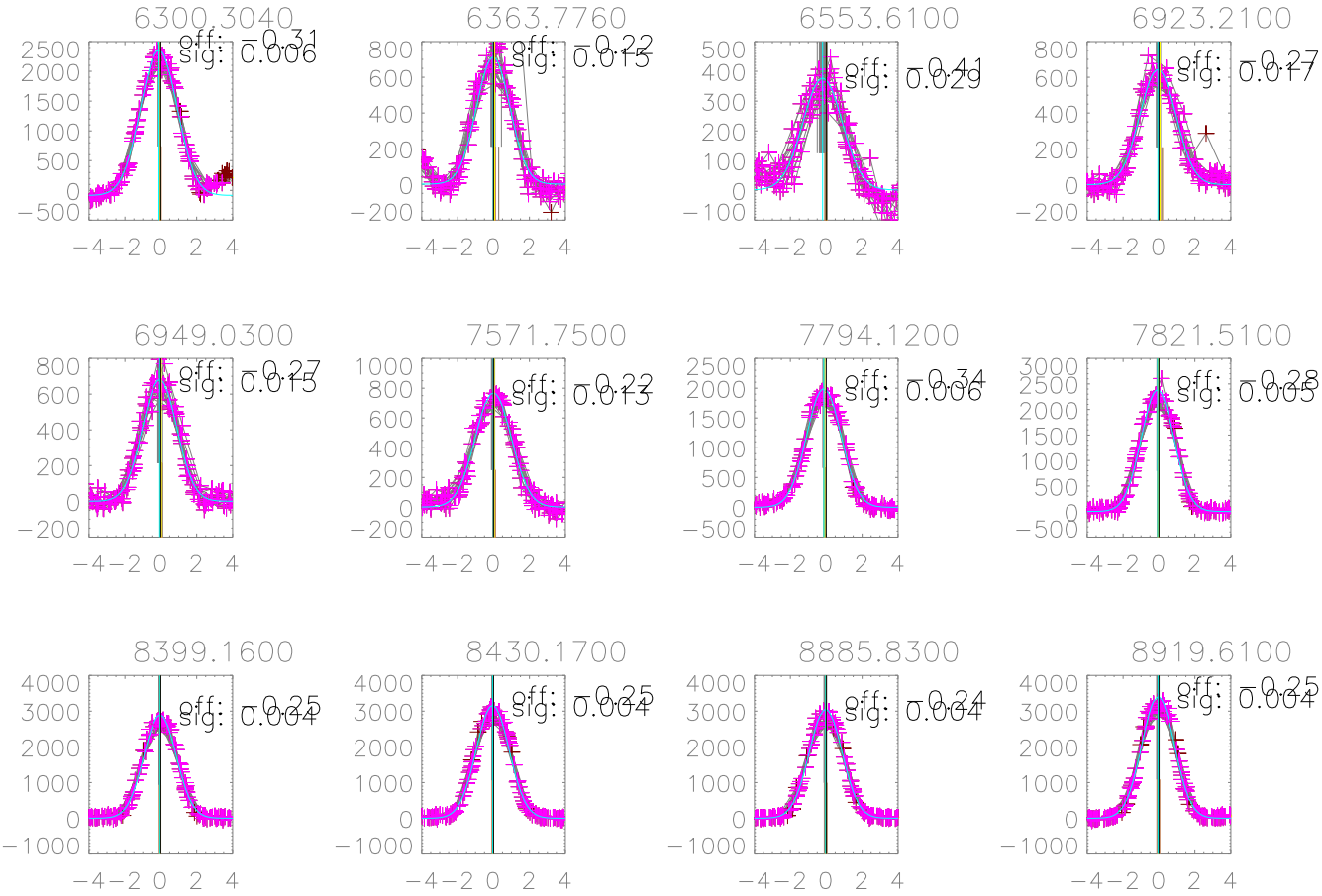

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-r2-00051137.fi
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
77.27
40.91
40.91
77.27
77.27
40.91
40.91
77.27
40.91
40.91
40.91
4.55

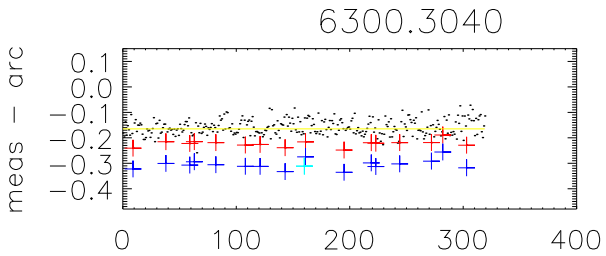

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-r2-00051137.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 18.028
Max value = 96.158
Wed Mar 19 14:07:09 2008

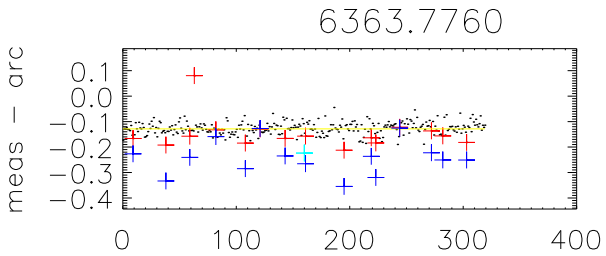

PLATE=2459 MJD=54544 Scattered Light on sdR-r2-00051137.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
23.6
41.8
0

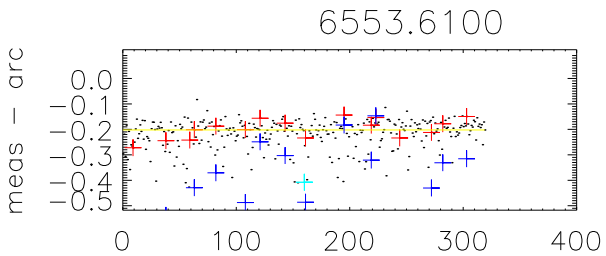

PLATE=2459 MJD=54544 Scattered Light on sdR-r2-00051137.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 16.690
Max value = 37.311
Wed Mar 19 14:09:24 2008

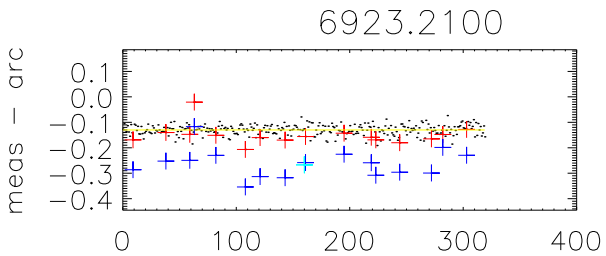

PLATE=2459 MJD=54544 Extraction chi^2 for sdR-r2-00051137.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

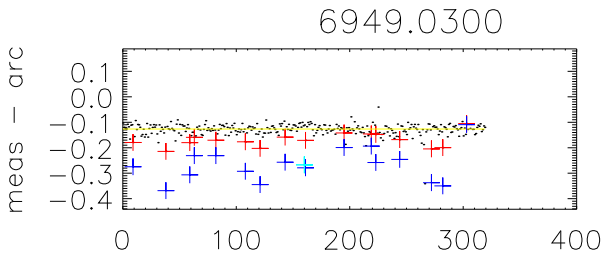

6300.3040
off: −0.31
sig: 0.006
6363.7760
off: −0.22
sig: 0.015
6553.6100
off: −0.41
sig: 0.029
6923.2100
off: −0.27
sig: 0.017
6949.0300
off: −0.27
sig: 0.015
7571.7500
off: −0.22
sig: 0.013
7794.1200
off: −0.34
sig: 0.006
7821.5100
off: −0.28
sig: 0.005
8399.1600
off: −0.25
sig: 0.004
8430.1700
off: −0.25
sig: 0.004
8885.8300
off: −0.24
sig: 0.004
8919.6100
off: −0.25
sig: 0.004

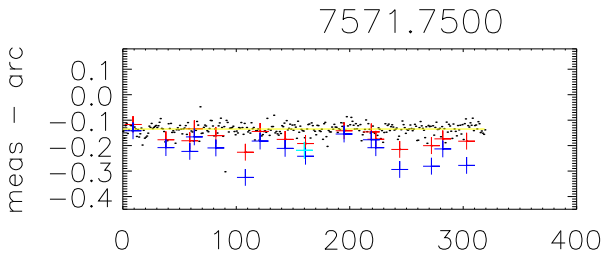

6300.3040
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

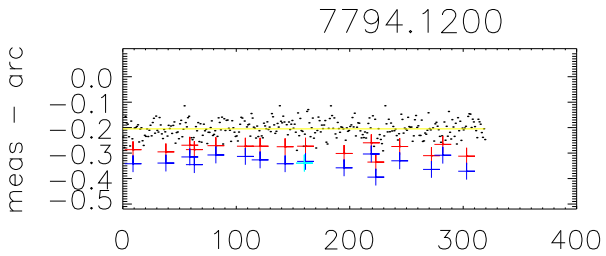

6363.7760
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

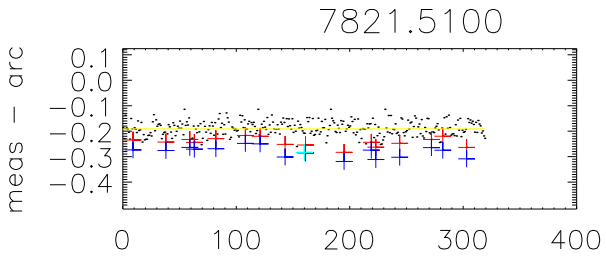

6553.6100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

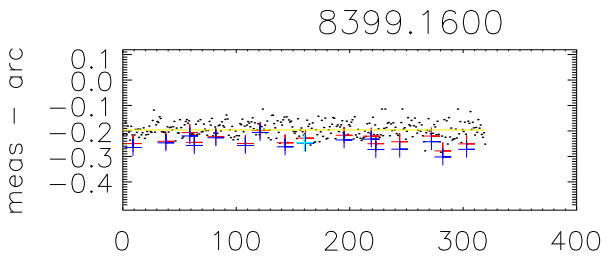

6923.2100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

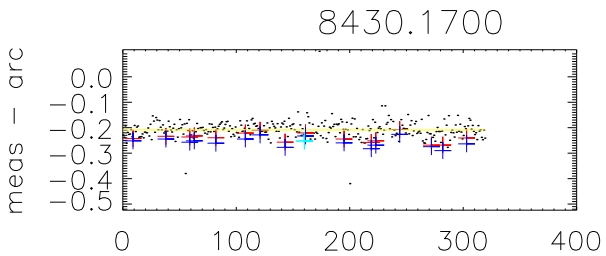

6949.0300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

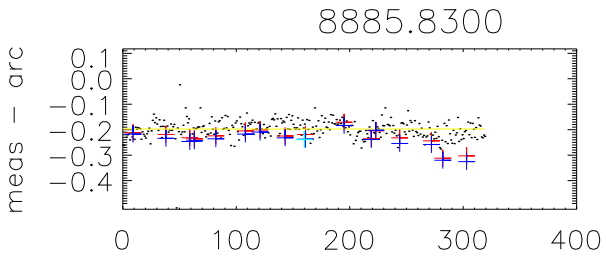

7571.7500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

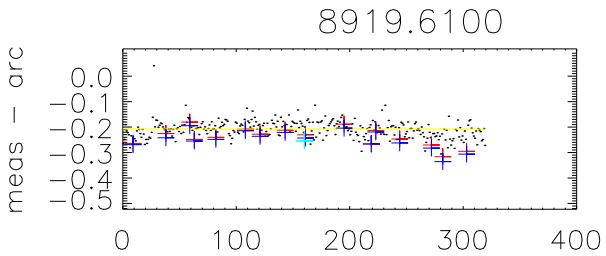

7794.1200
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

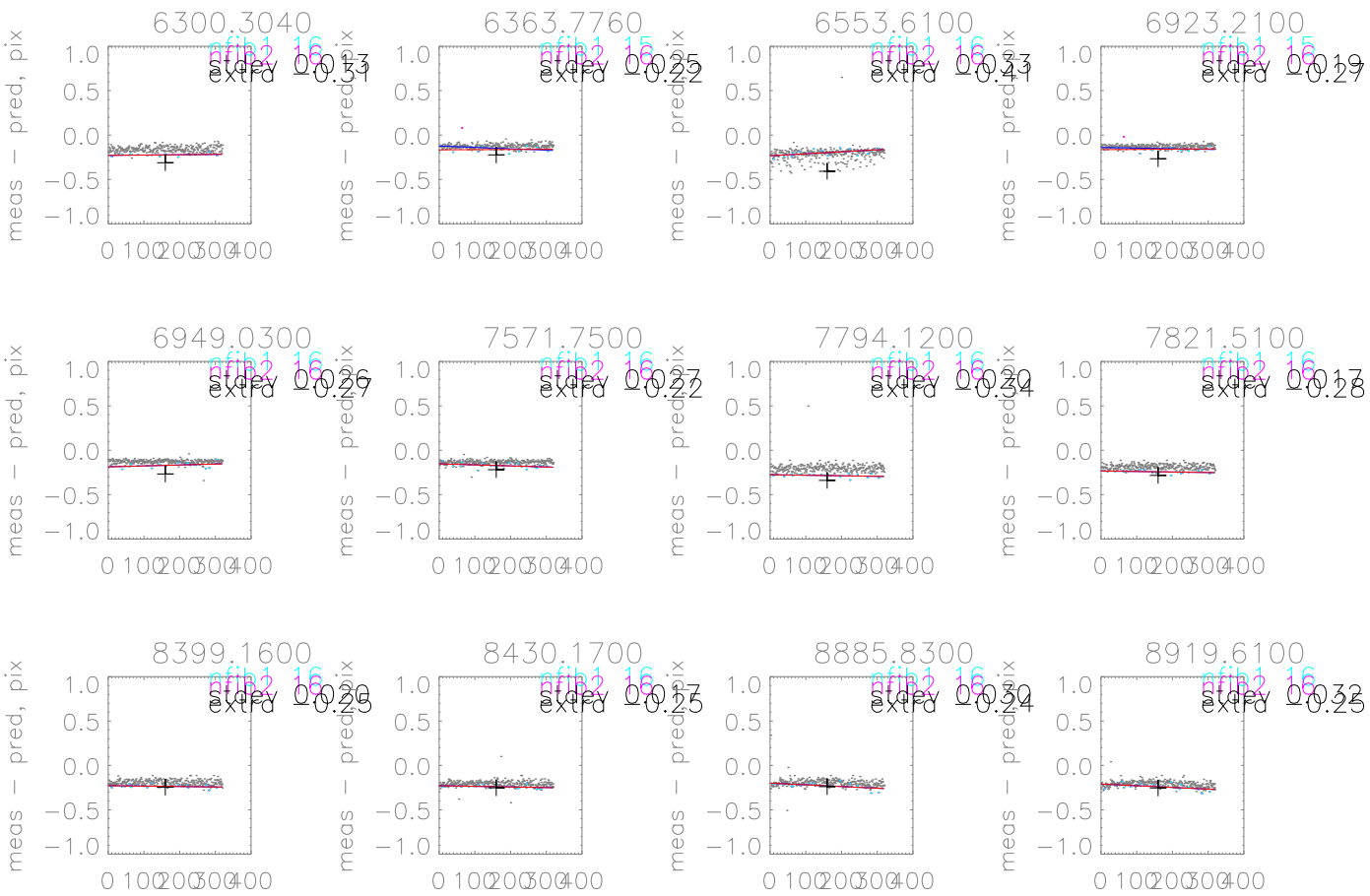

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

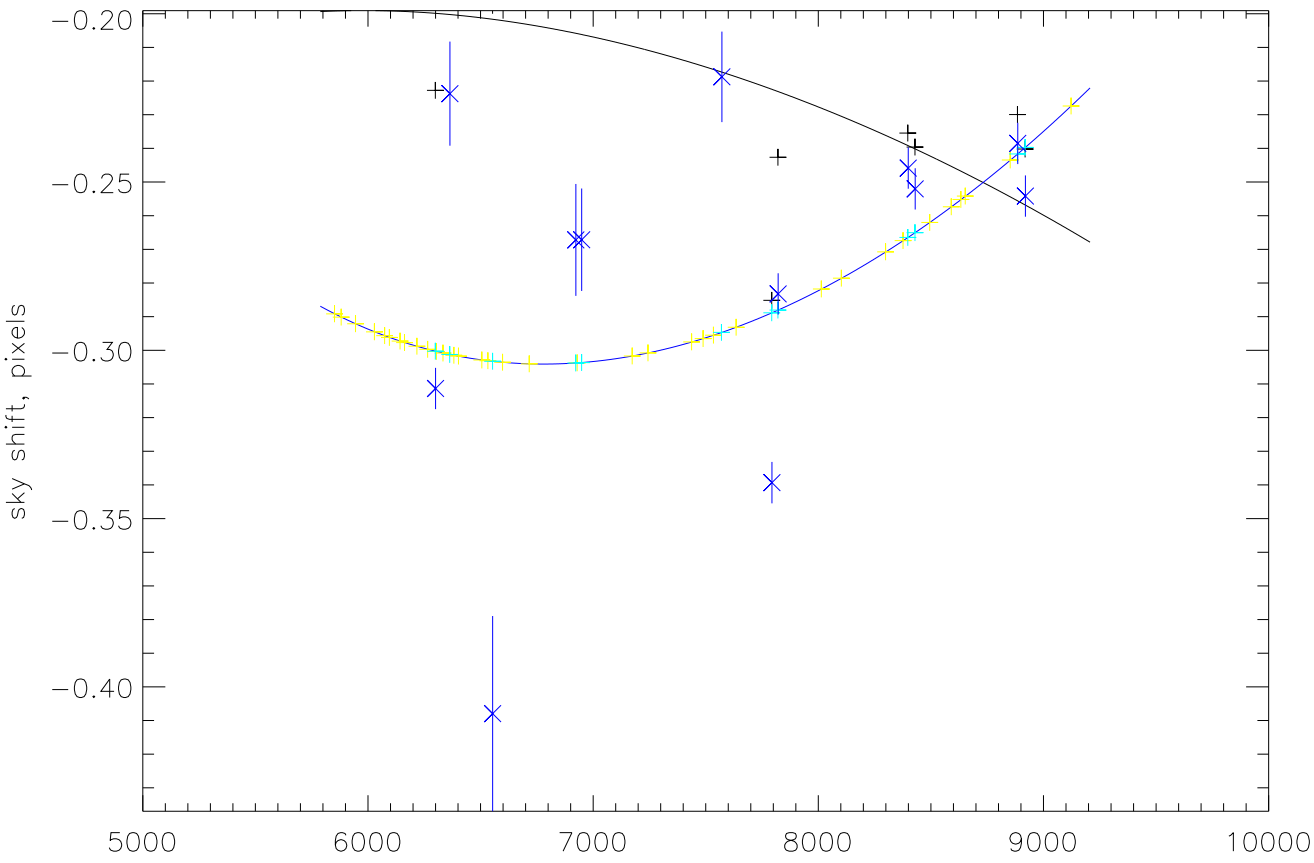

8399.1600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

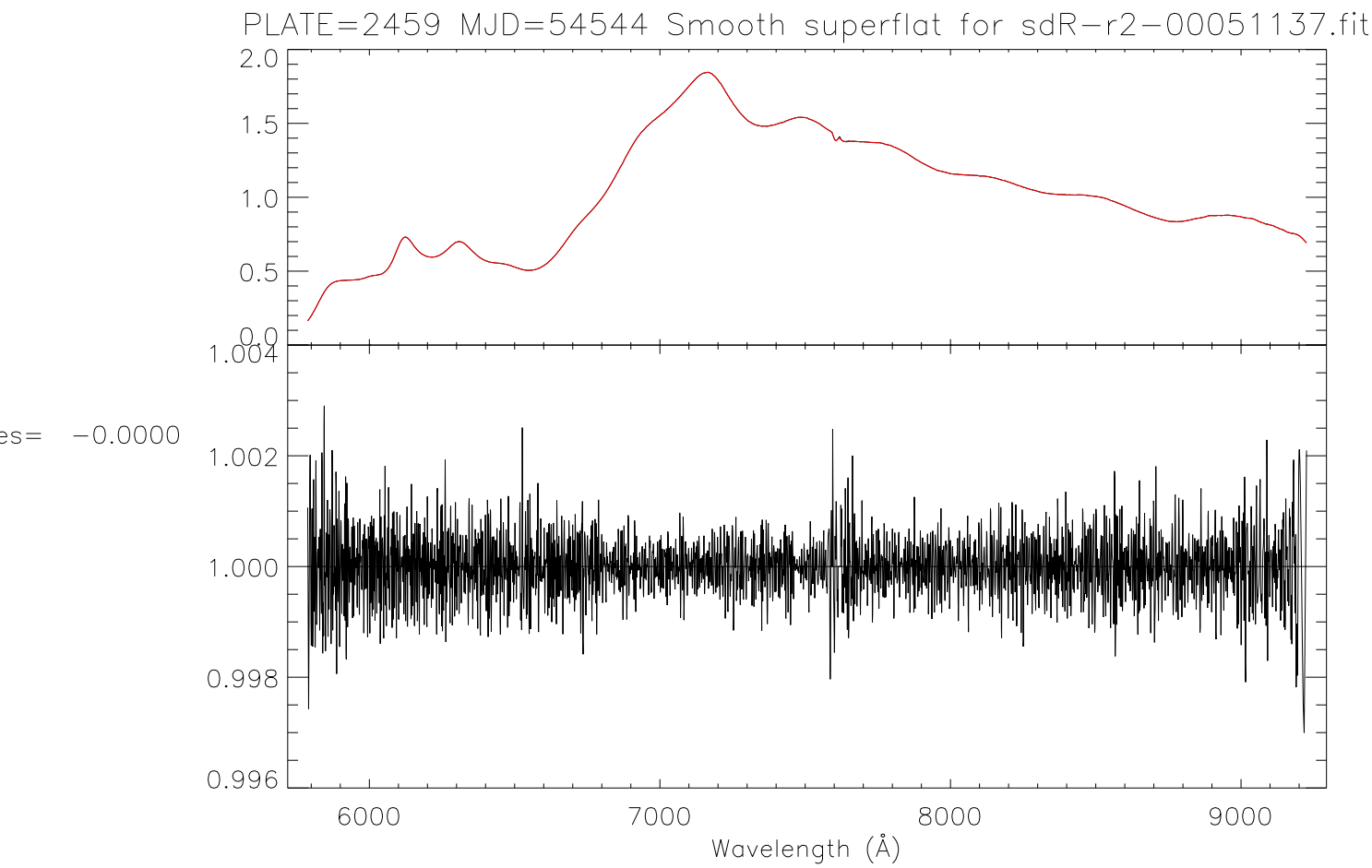

8430.1700
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

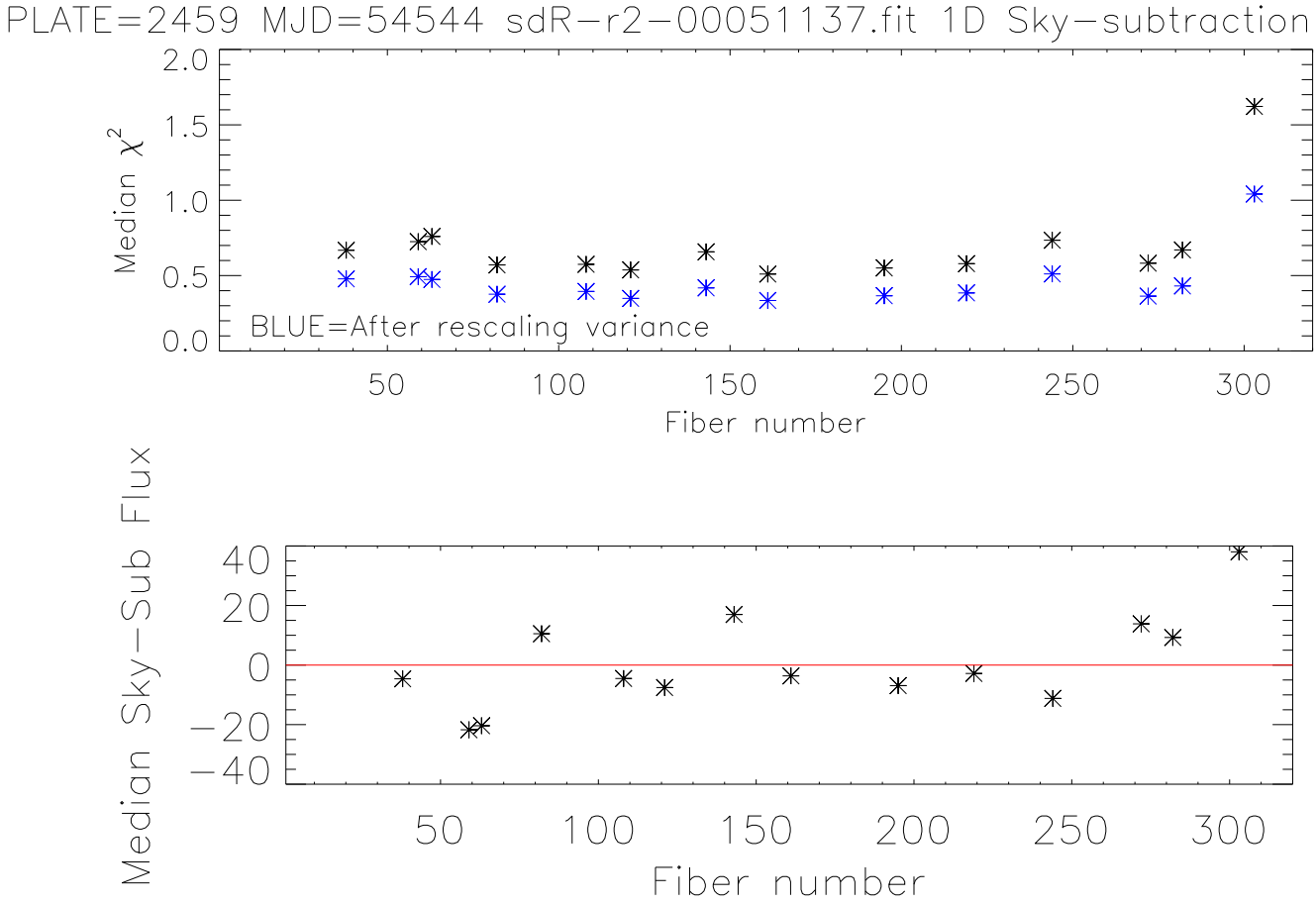

8885.8300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

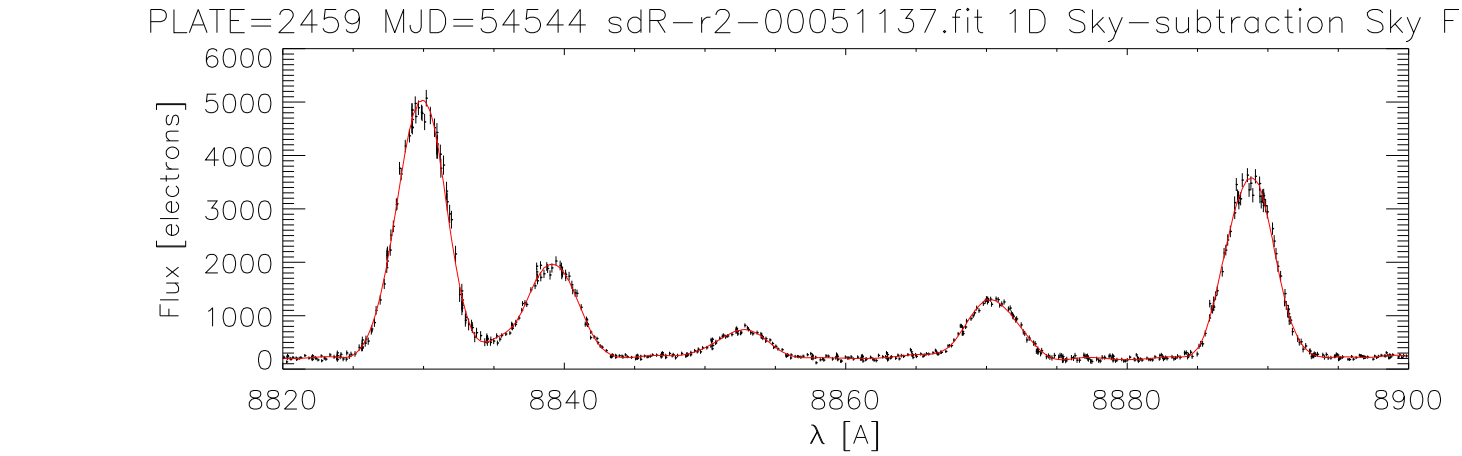

8919.6100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

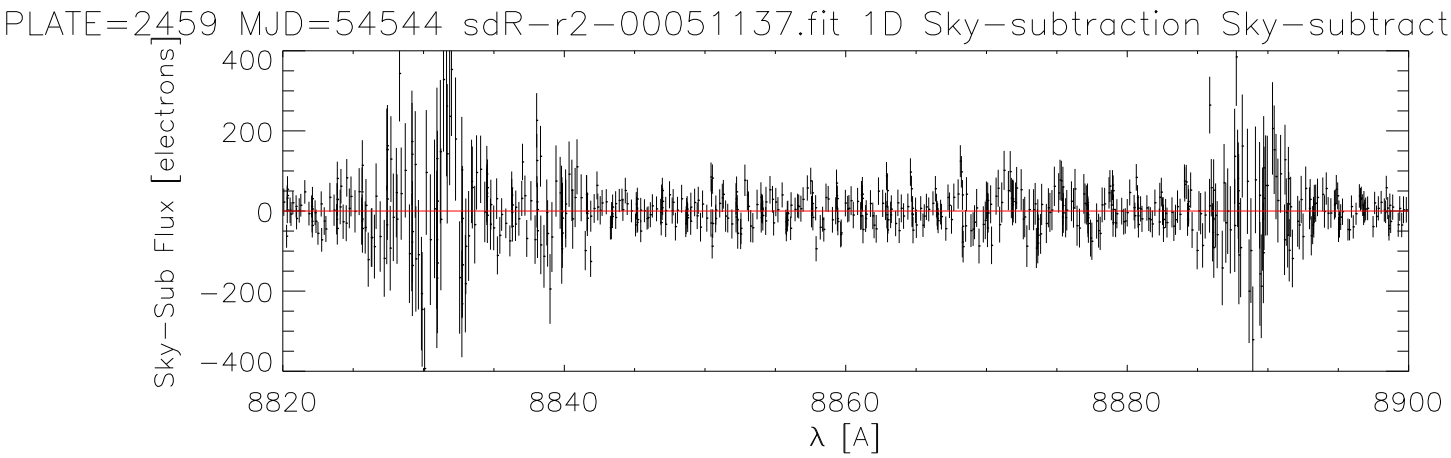

6300.3040
6363.7760
6553.6100
6923.2100
6949.0300
7571.7500
7794.1200
7821.5100
8399.1600
8430.1700
8885.8300
8919.6100
meas − pred, pix
mfhs1 16
mfhs2 15
stdev 0.33
extrd 0.31
stdev 0.25
extrd 0.22
stdev 0.33
extrd 0.41
stdev 0.19
extrd 0.27
stdev 0.26
extrd 0.27
stdev 0.27
extrd 0.22
stdev 0.30
extrd 0.34
stdev 0.17
extrd 0.28
stdev 0.20
extrd 0.25
stdev 0.17
extrd 0.25
stdev 0.30
extrd 0.24
stdev 0.32
extrd 0.25

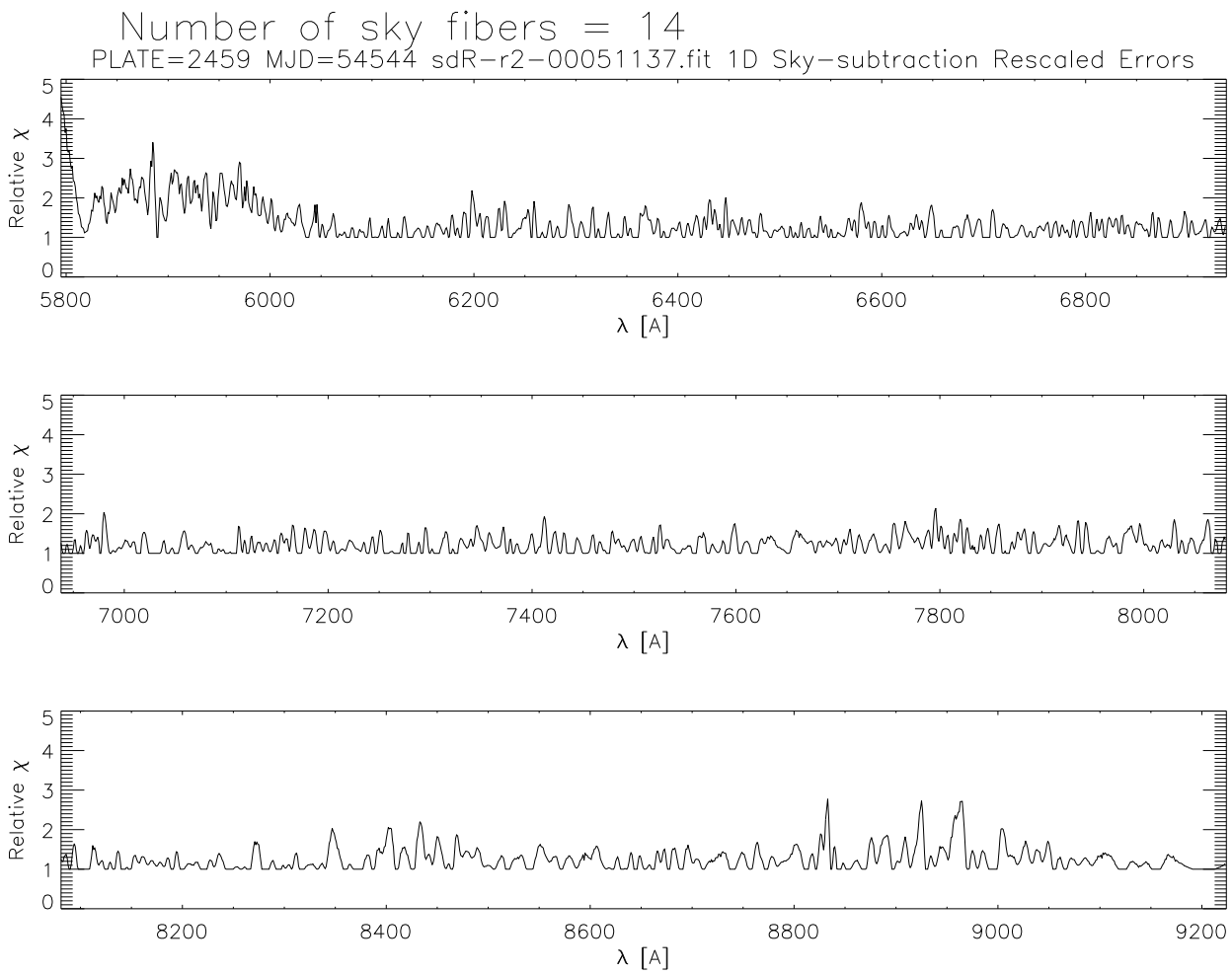

−0.20
−0.25
−0.30
−0.35
−0.40
sky shift, pixels
5000
6000
7000
8000
9000
10000

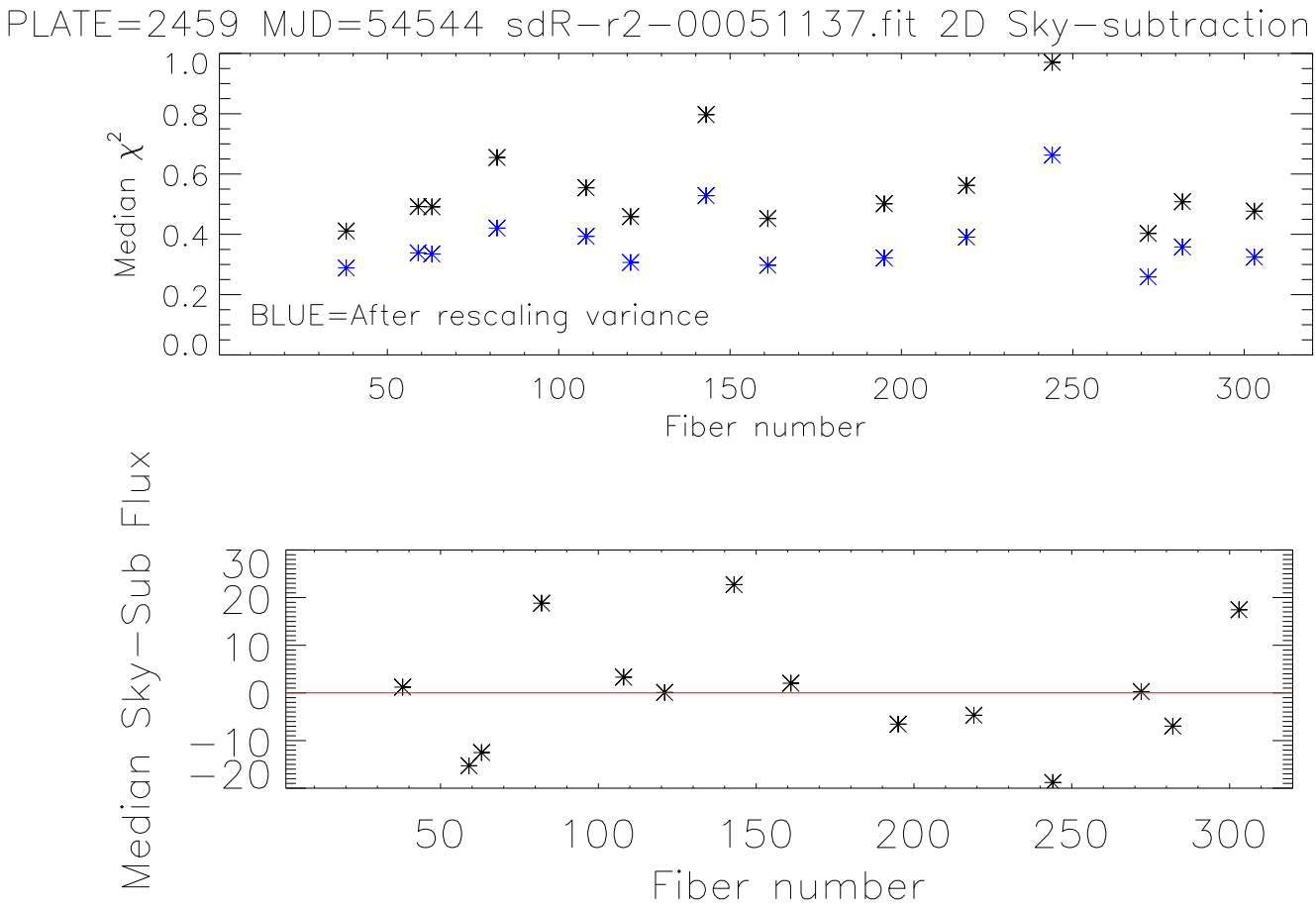

PLATE=2459 MJD=54544 Smooth superflat for sdR-r2-00051137.fit
2.0
1.5
1.0
0.5
0.0
1.004
1.002
1.000
0.998
0.996
es= -0.0000
6000
7000
8000
9000
Wavelength (Å)

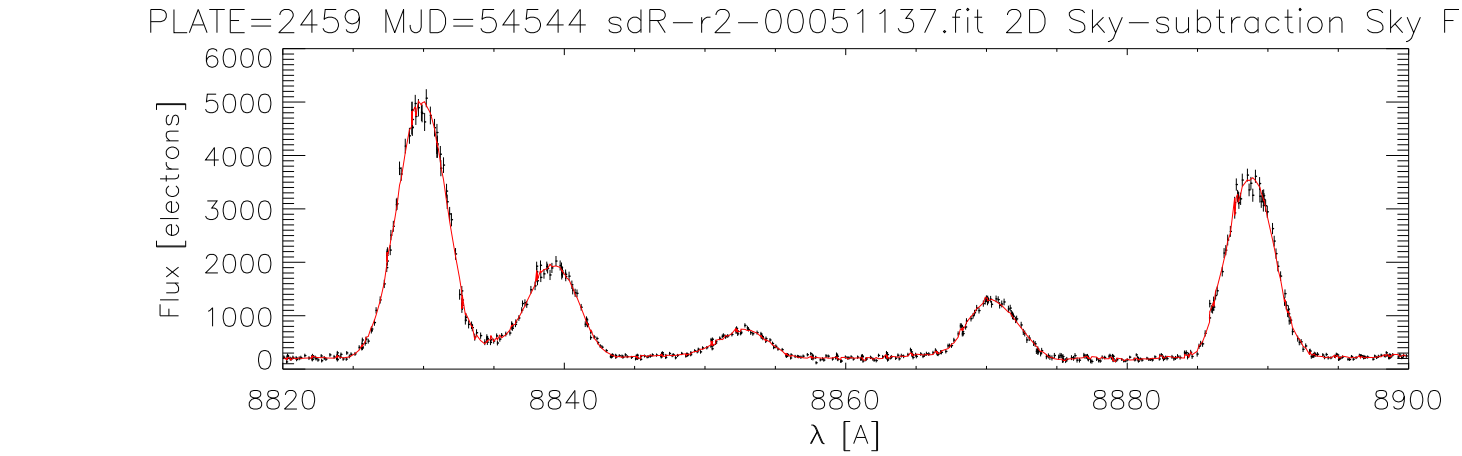

PLATE=2459 MJD=54544 sdR-r2-00051137.fit 1D Sky-subtraction Sky Fibers
Median χ^2
2.0
1.5
1.0
0.5
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
40
20
0
-20
-40
50
100
150
200
250
300
Fiber number

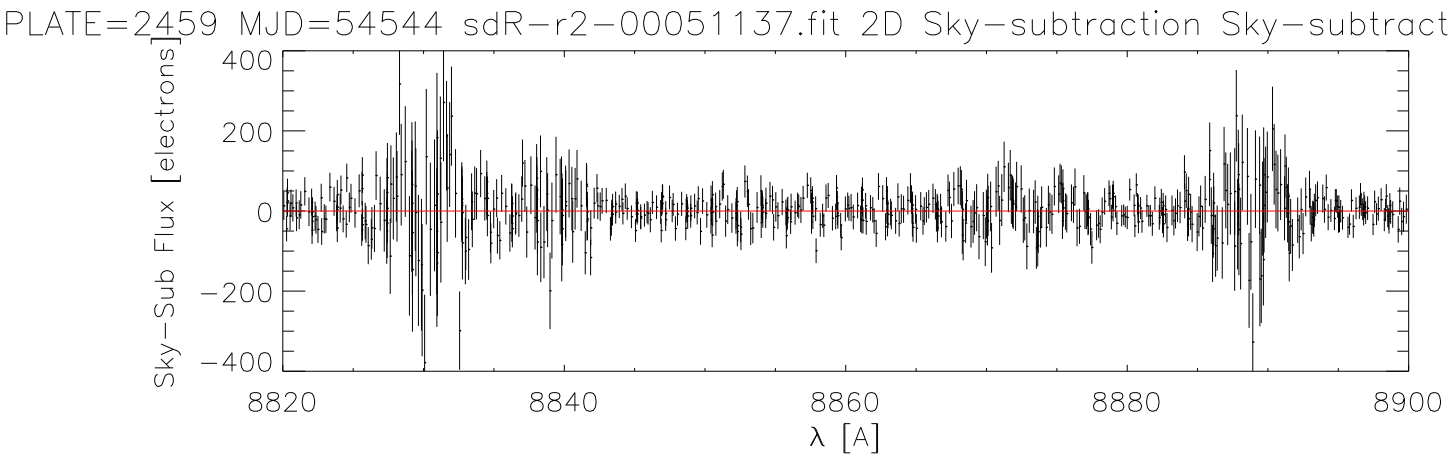

PLATE=2459 MJD=54544 sdR-r2-00051137.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

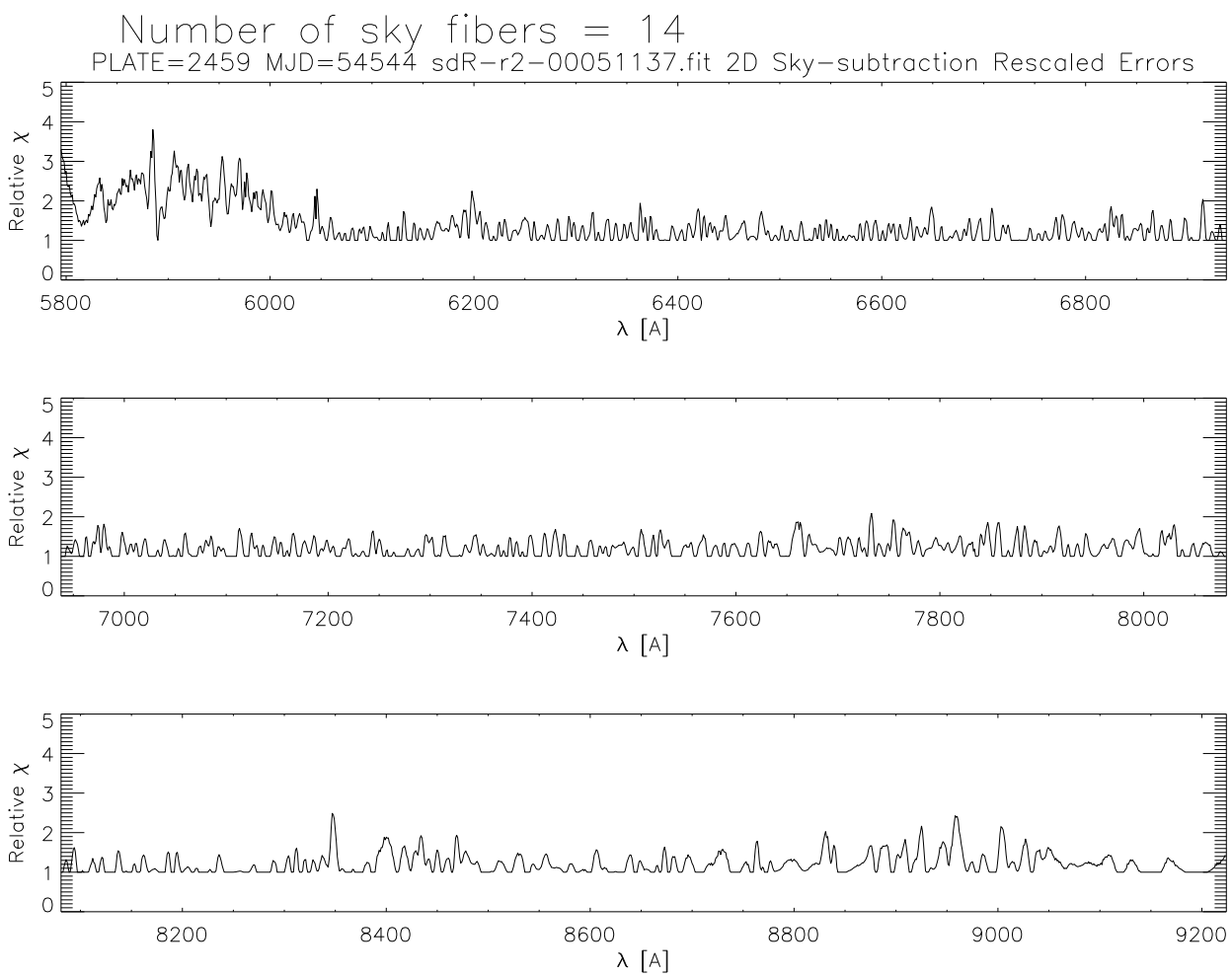

PLATE=2459 MJD=54544 sdR-r2-00051137.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

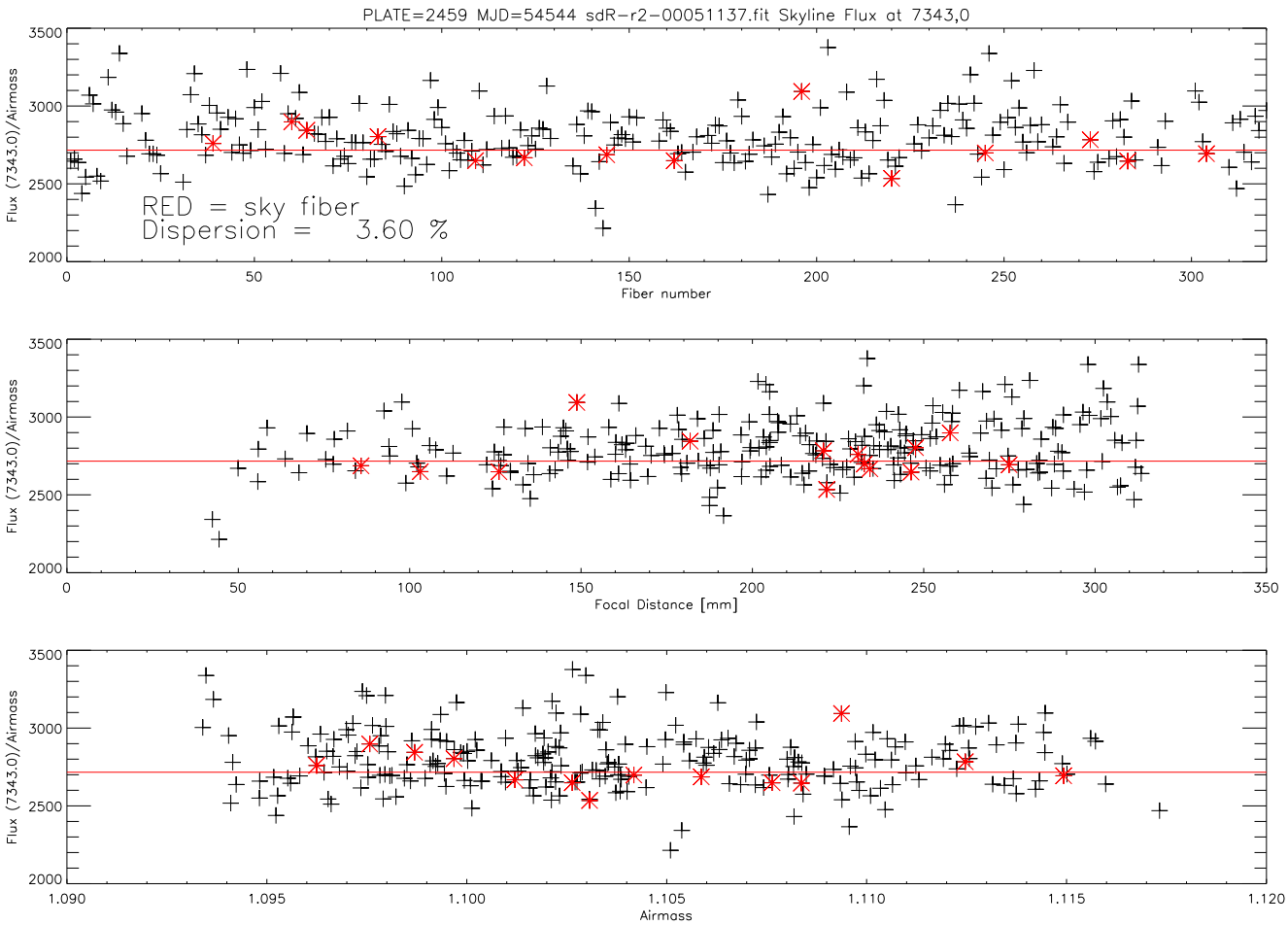

Number of sky fibers = 14
PLATE=2459 MJD=54544 sdR-r2-00051137.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

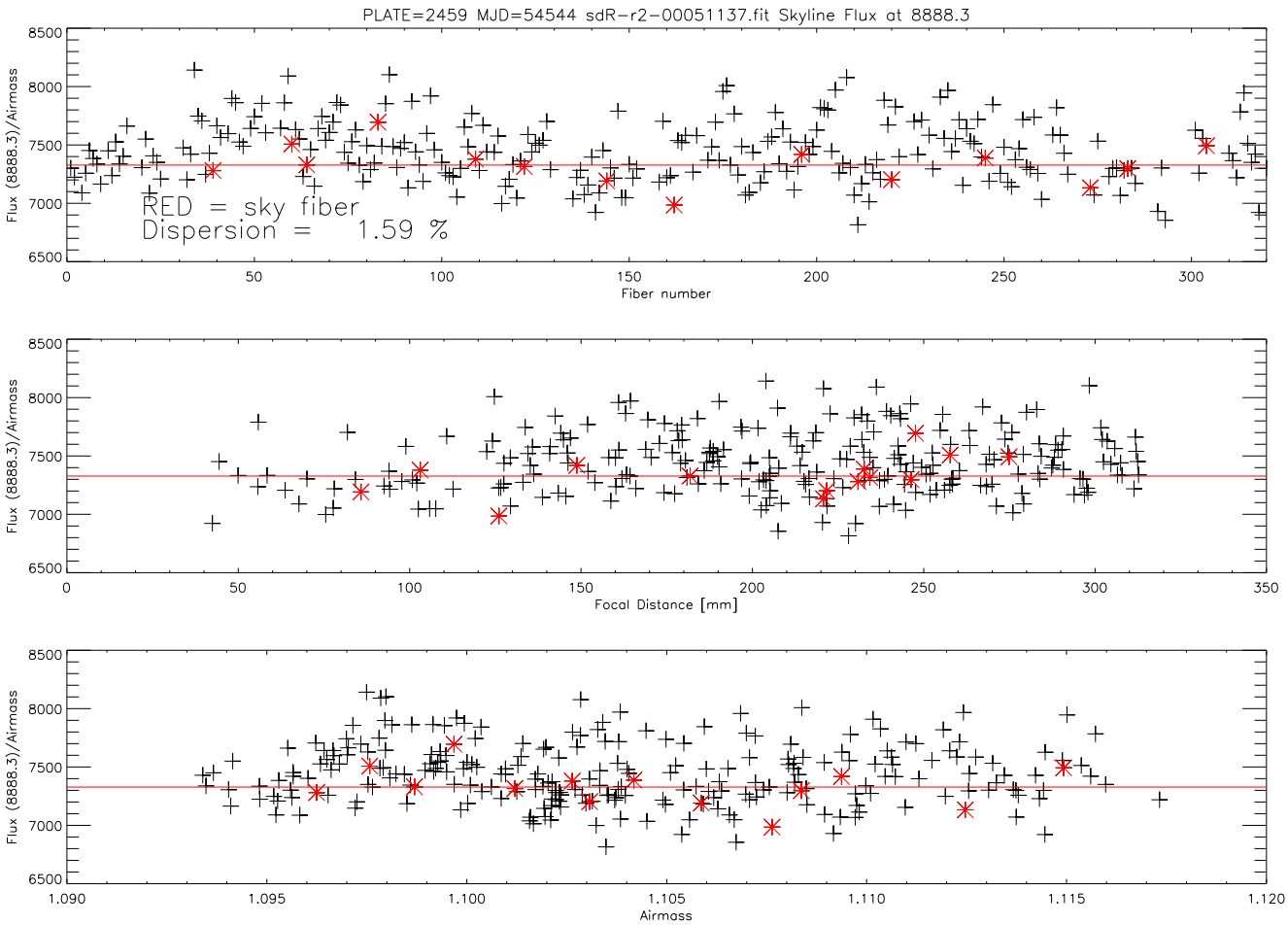

PLATE=2459 MJD=54544 sdR-r2-00051137.fit 2D Sky-subtraction Sky Fibers
Median χ^2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
30
20
10
0
-10
-20
50
100
150
200
250
300
Fiber number

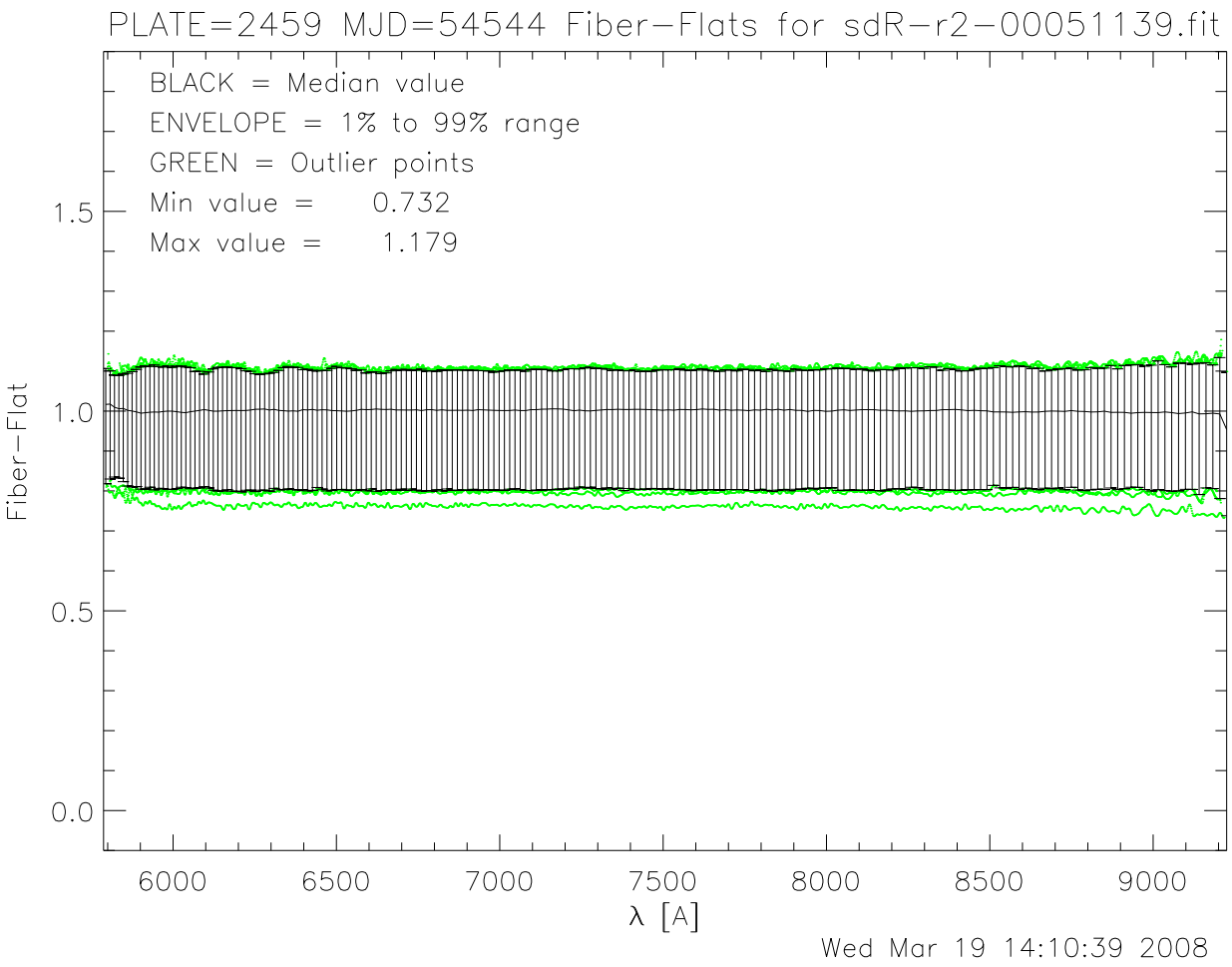

PLATE=2459 MJD=54544 sdR-r2-00051137.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

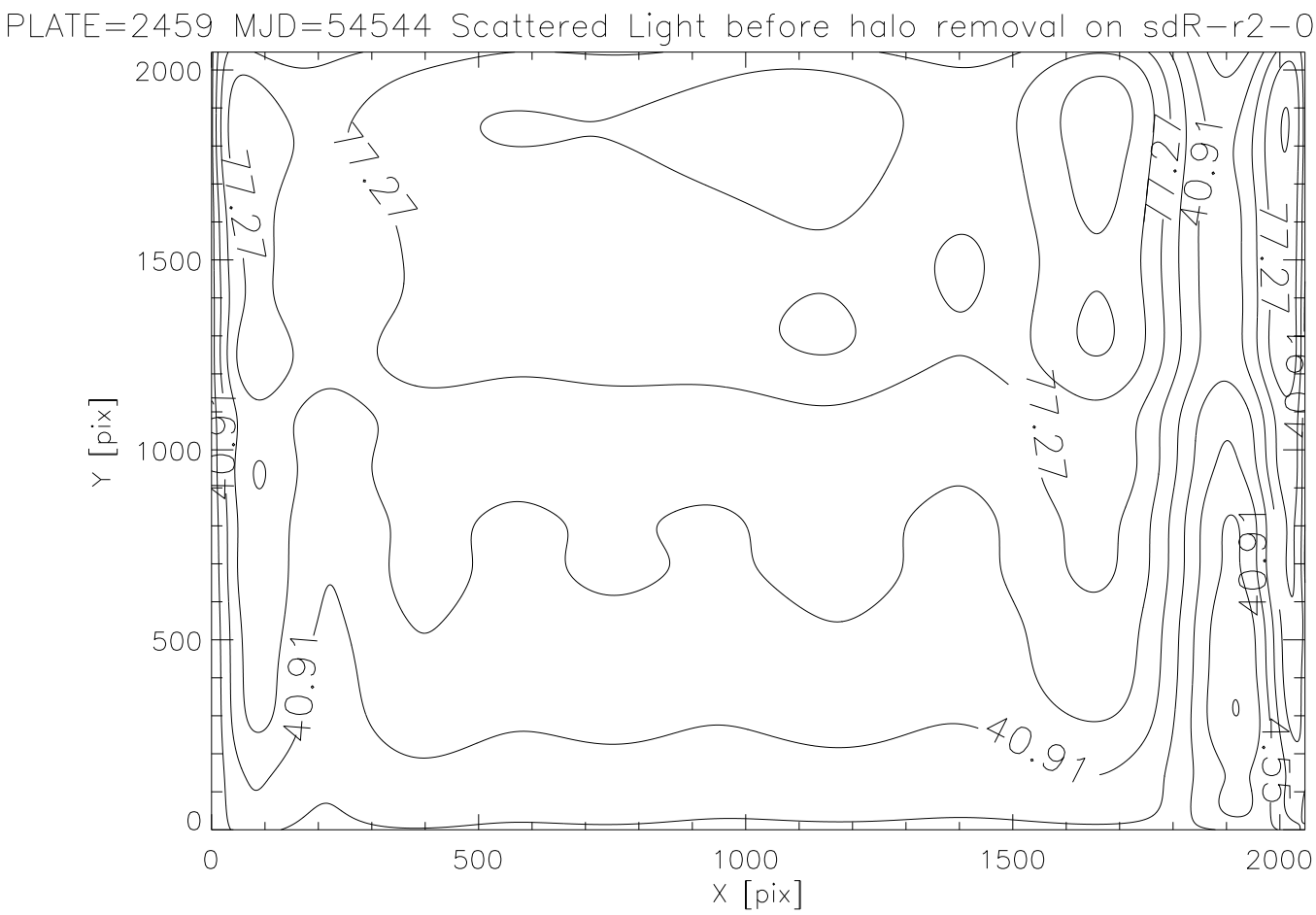

PLATE=2459 MJD=54544 sdR-r2-00051137.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

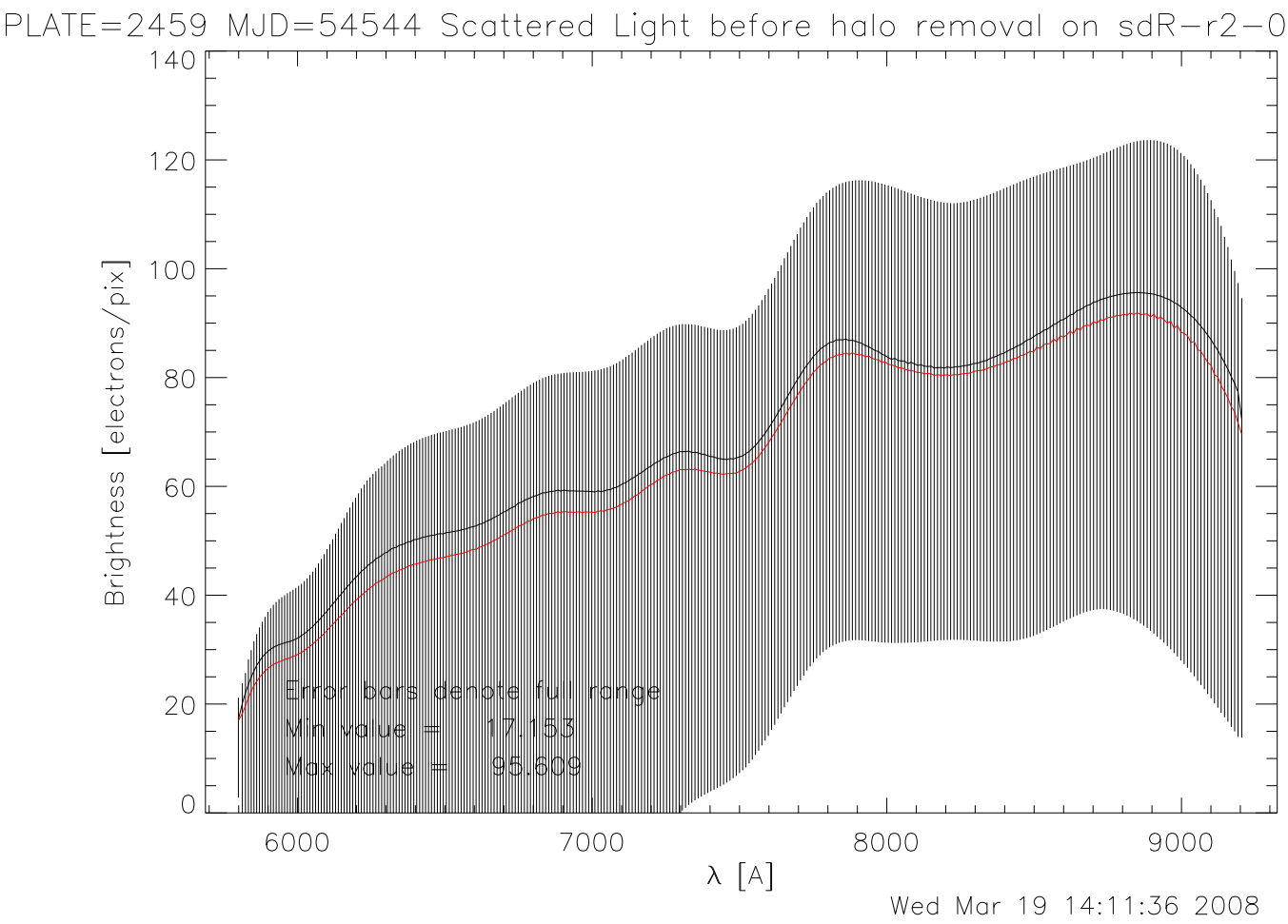

Number of sky fibers = 14
PLATE=2459 MJD=54544 sdR-r2-00051137.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

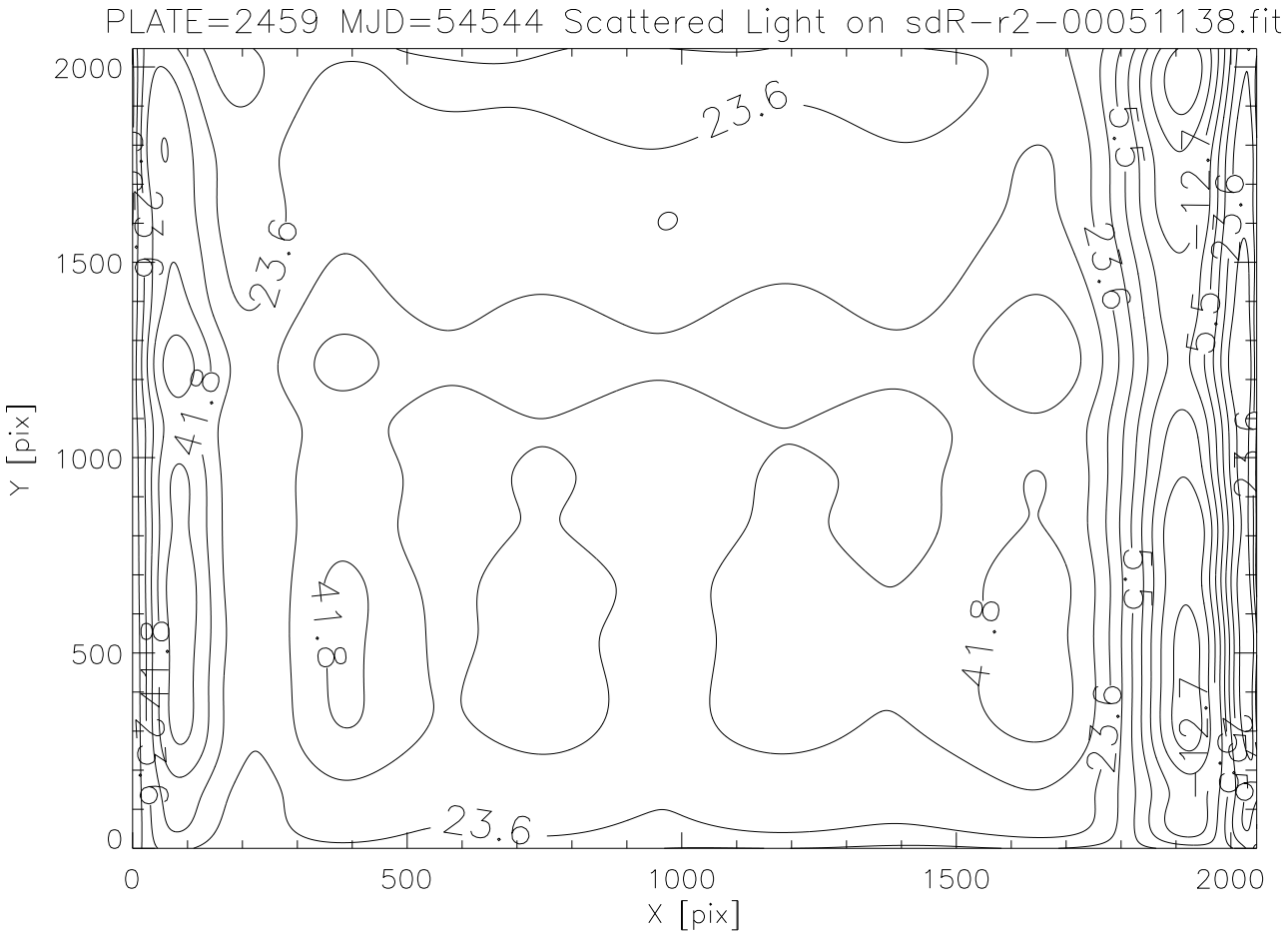

PLATE=2459 MJD=54544 sdR-r2-00051137.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.60 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

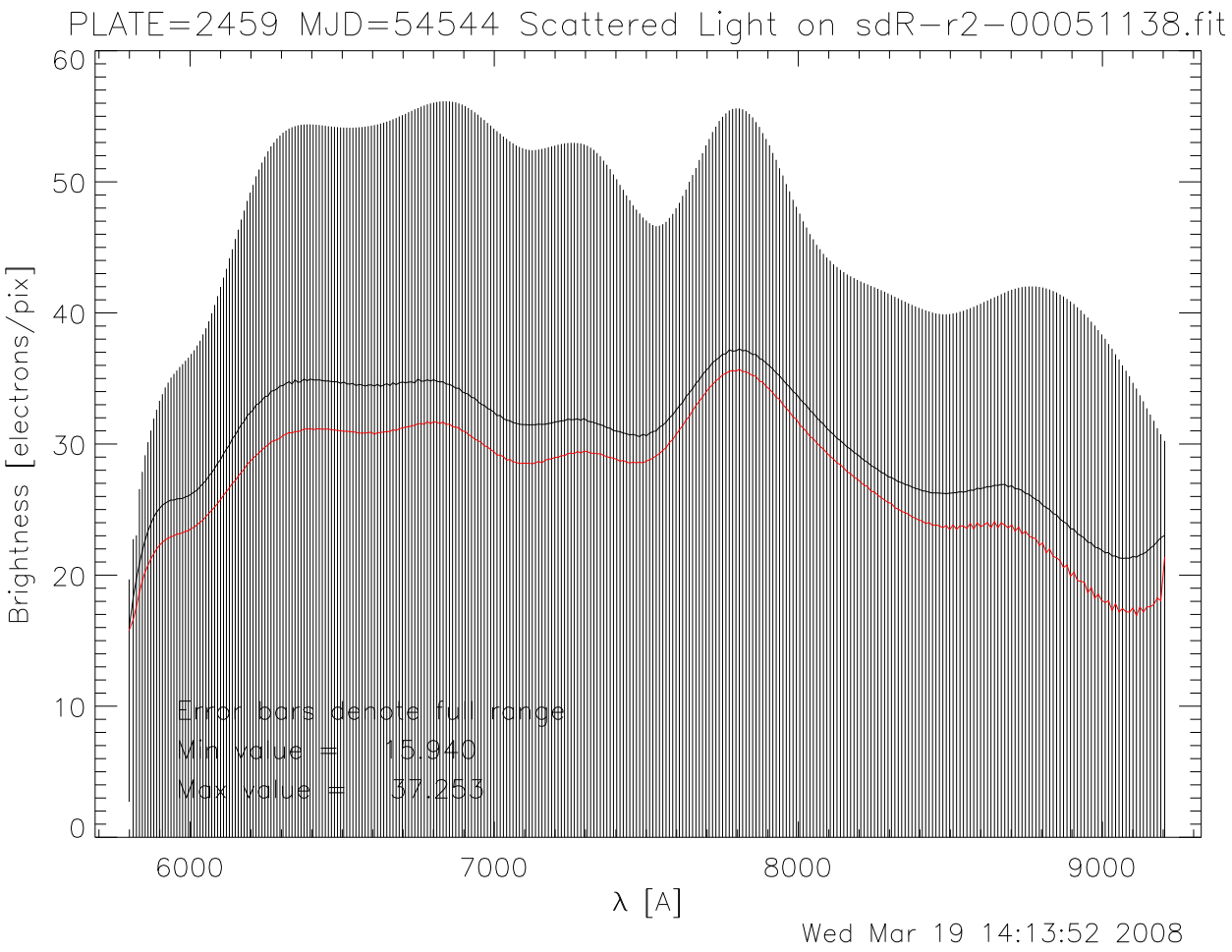

PLATE=2459 MJD=54544 sdR-r2-00051137.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.59 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

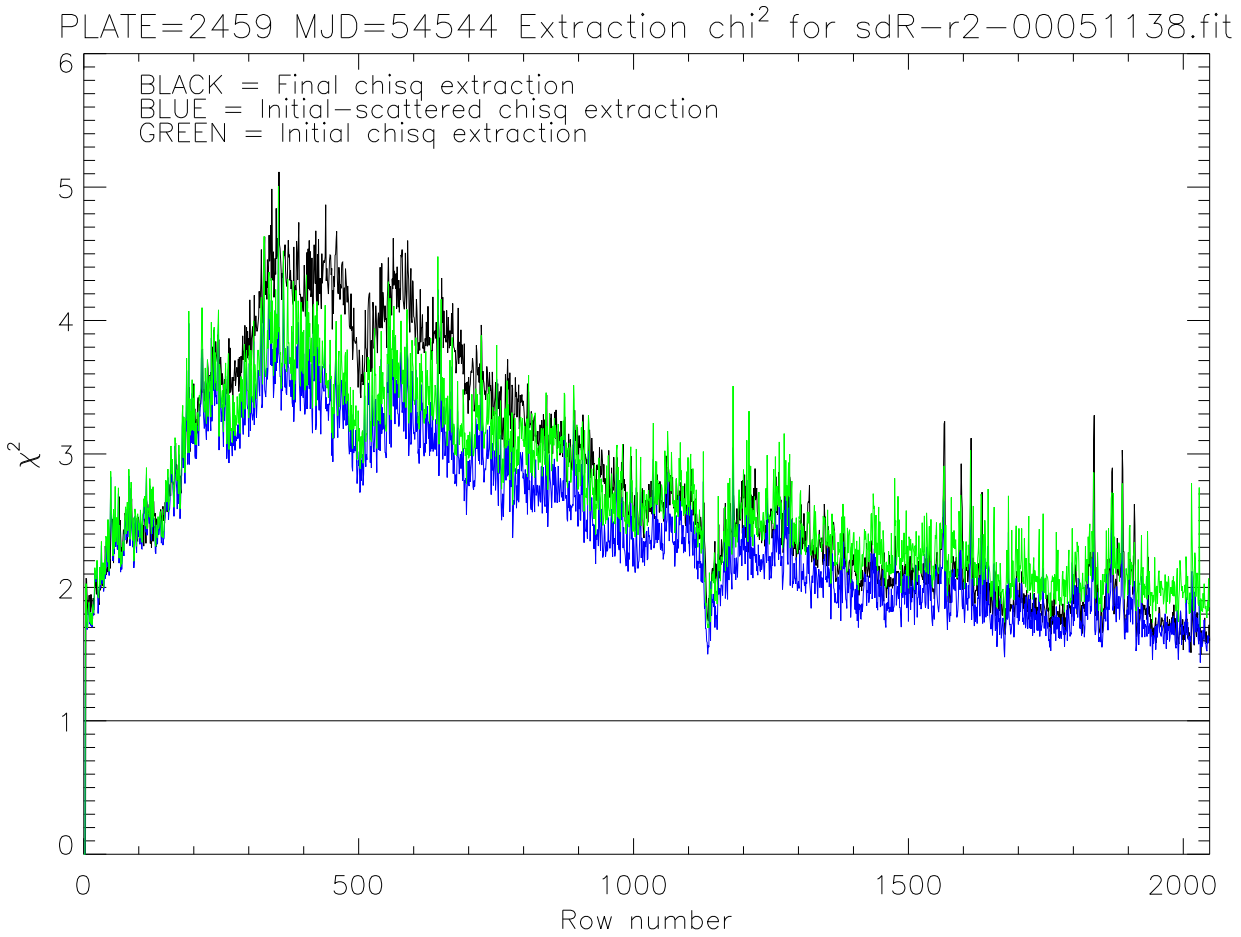

PLATE=2459 MJD=54544 Fiber−Flats for sdR−r2−00051139.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.732
Max value = 1.179
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 19 14:10:39 2008

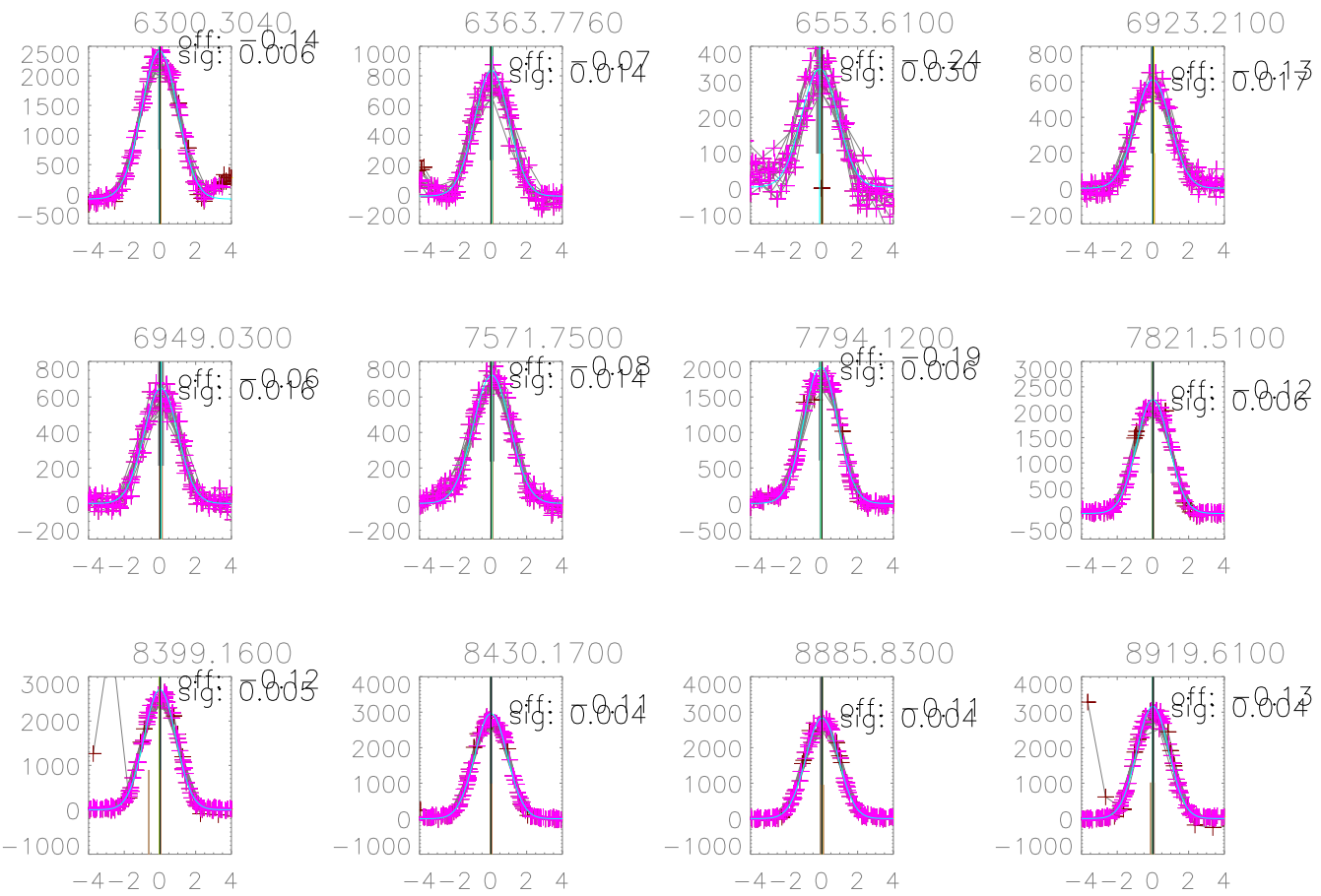

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-r2-00051138.fi
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
77.27
40.91
16.04
4.55

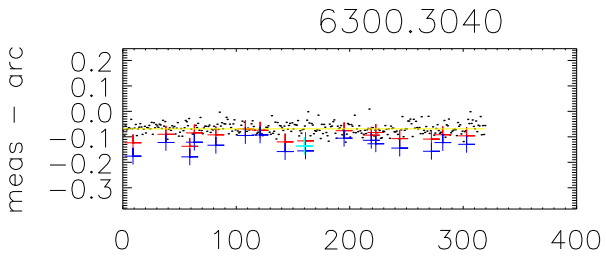

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-r2-00051138.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 17.153
Max value = 95.609
Wed Mar 19 14:11:36 2008

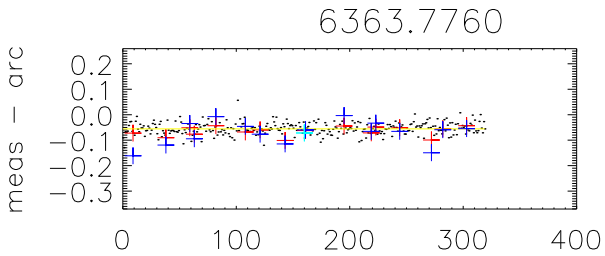

PLATE=2459 MJD=54544 Scattered Light on sdR-r2-00051138.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
23.6
41.8
5.5
12.7

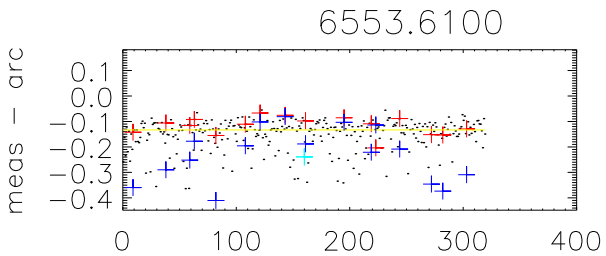

PLATE=2459 MJD=54544 Scattered Light on sdR-r2-00051138.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 15.940
Max value = 37.253
Wed Mar 19 14:13:52 2008

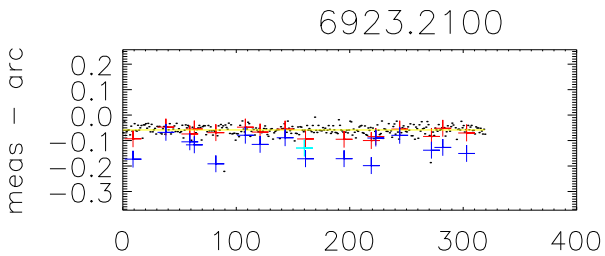

PLATE=2459 MJD=54544 Extraction chi^2 for sdR−r2−00051138.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
6
0
500
1000
1500
2000

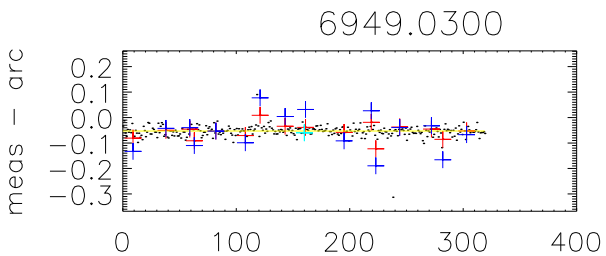

6300.3040
off: −0.14
sig: 0.006
6363.7760
off: −0.07
sig: 0.014
6553.6100
off: −0.24
sig: 0.030
6923.2100
off: −0.13
sig: 0.017
6949.0300
off: −0.06
sig: 0.018
7571.7500
off: −0.08
sig: 0.014
7794.1200
off: −0.19
sig: 0.006
7821.5100
off: −0.12
sig: 0.006
8399.1600
off: −0.12
sig: 0.005
8430.1700
off: −0.11
sig: 0.004
8885.8300
off: −0.11
sig: 0.004
8919.6100
off: −0.13
sig: 0.004

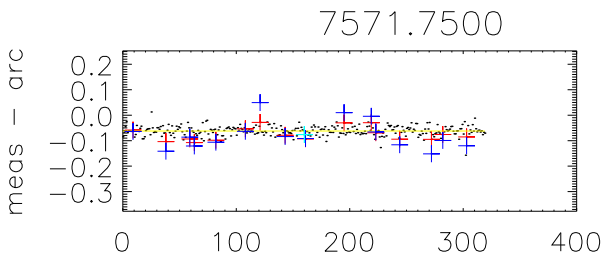

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

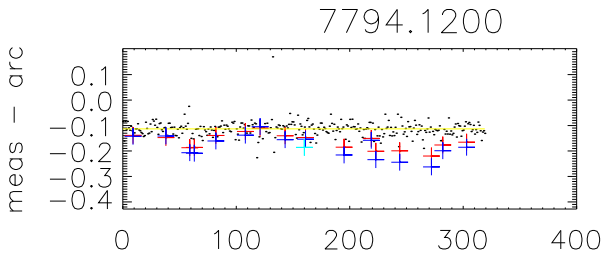

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

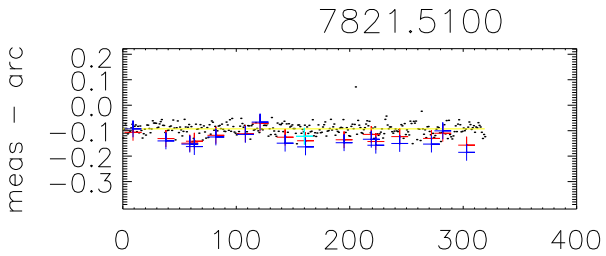

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

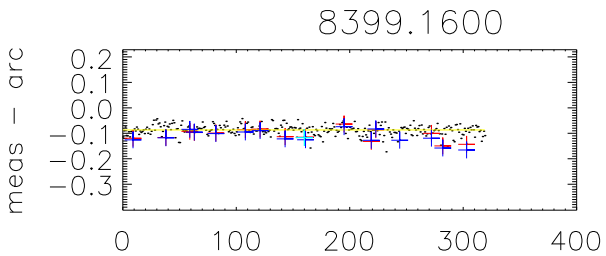

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

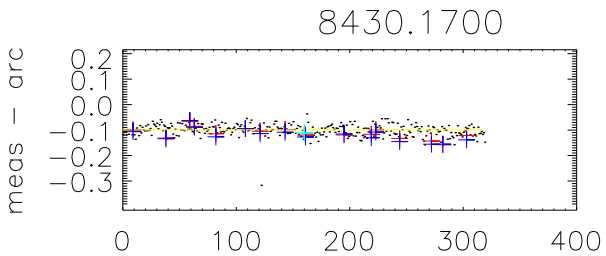

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

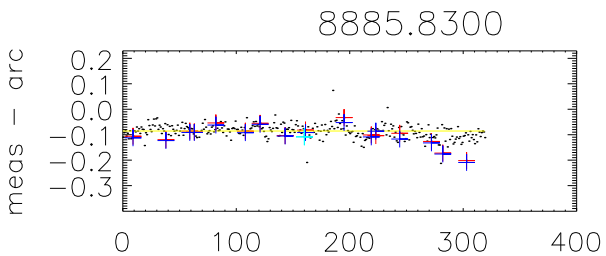

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

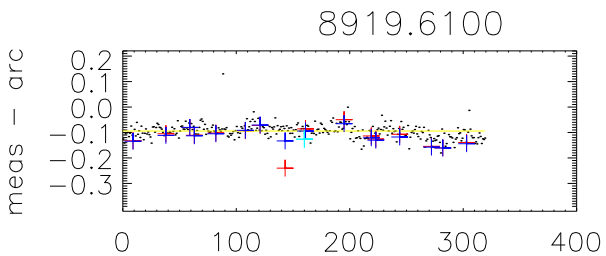

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

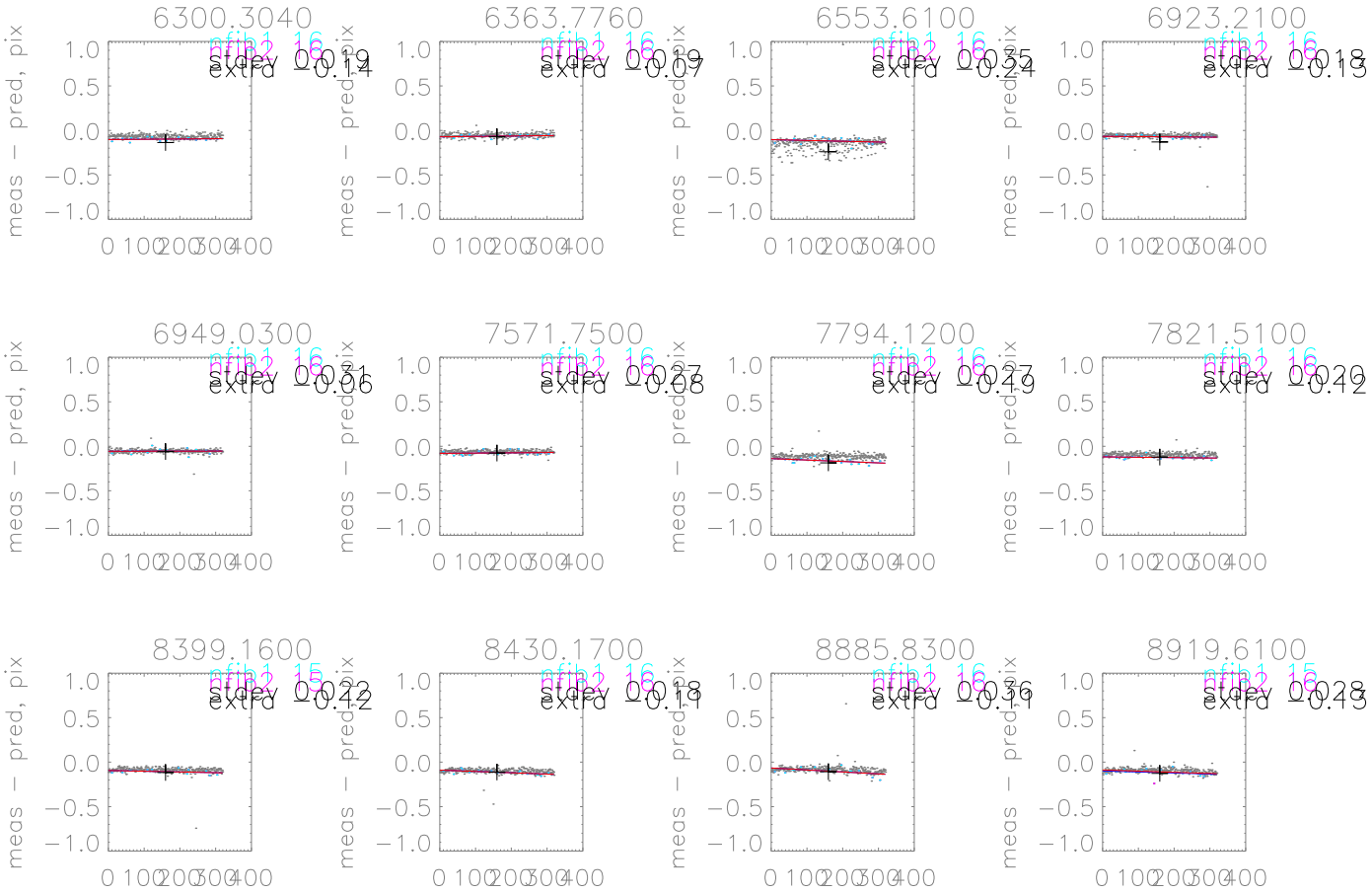

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

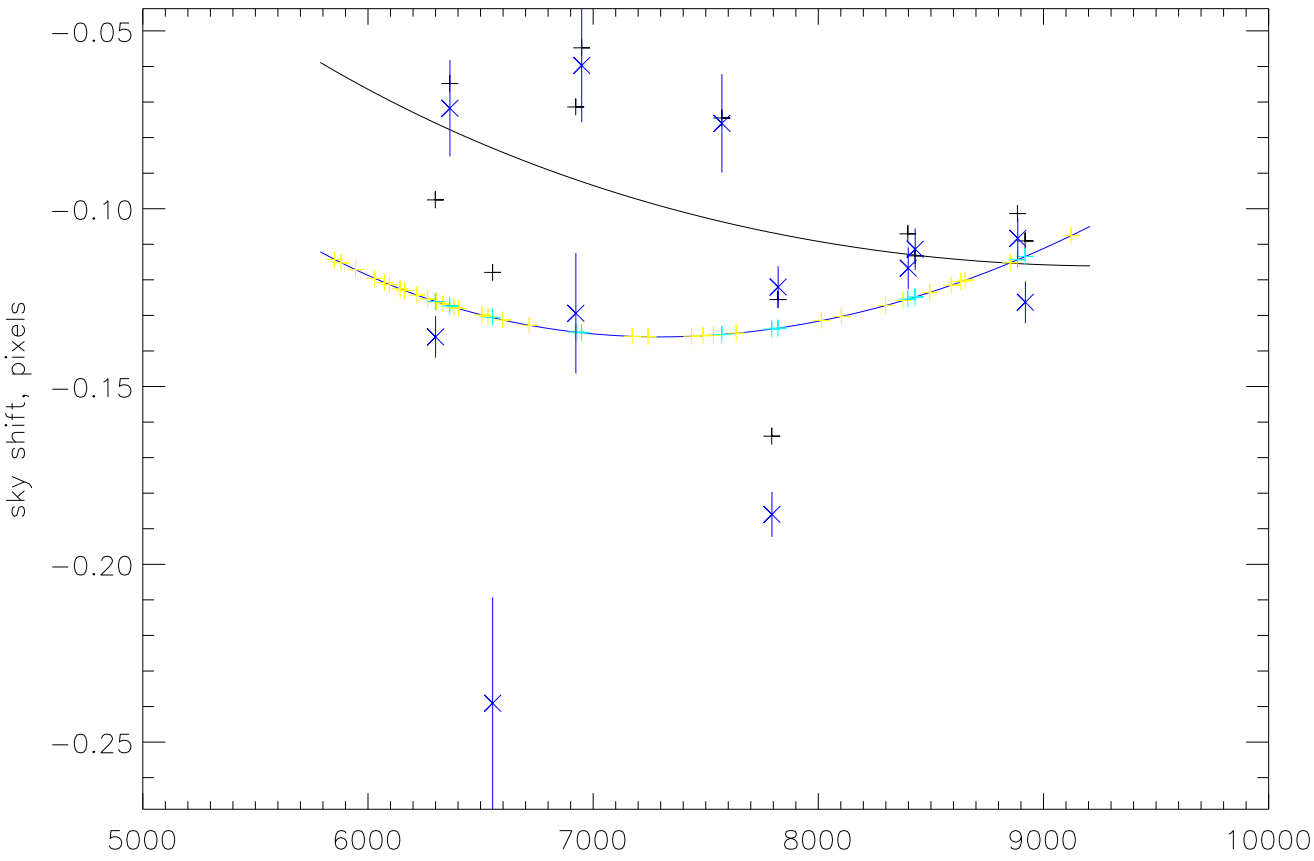

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

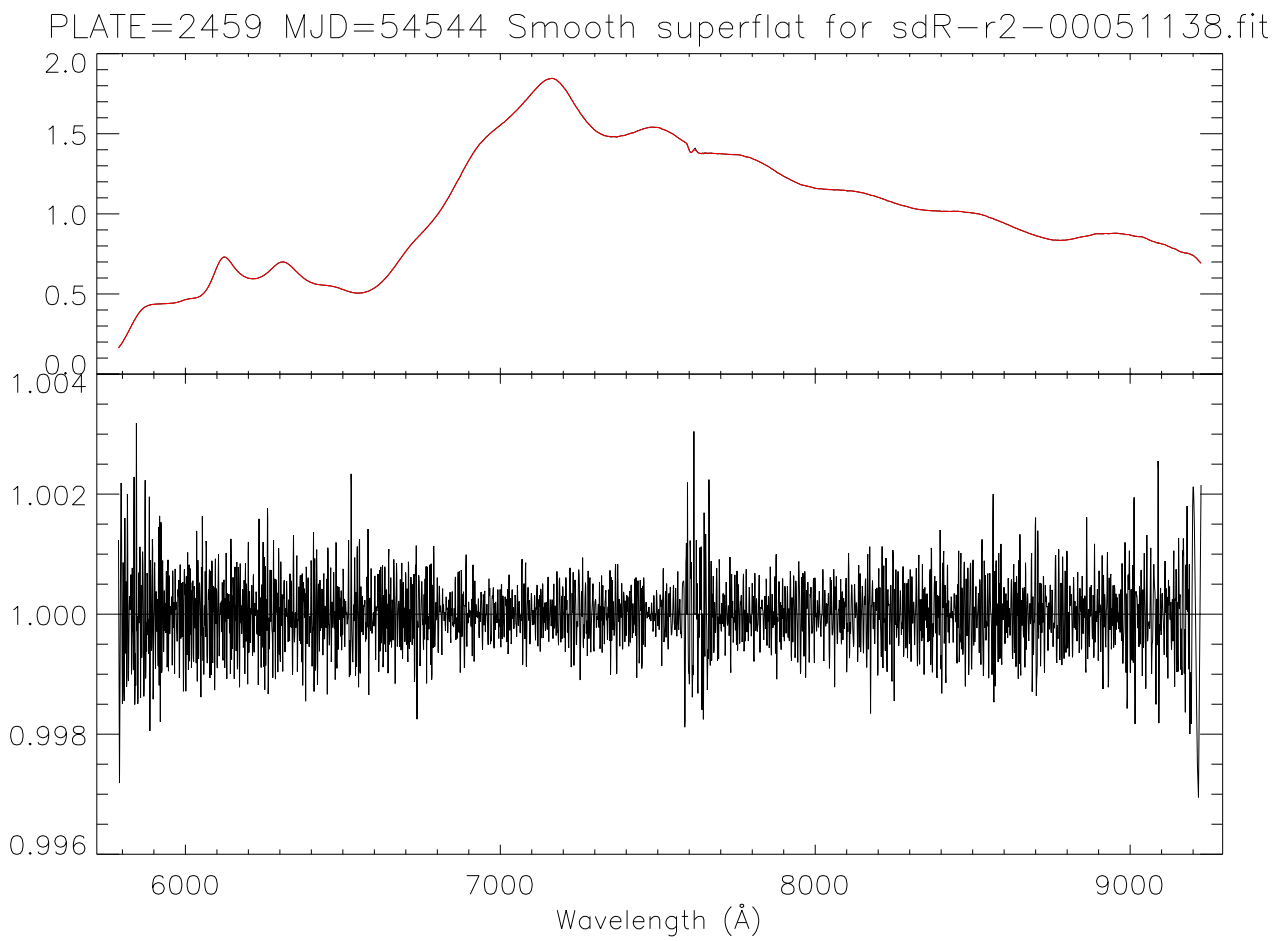

8885.8300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

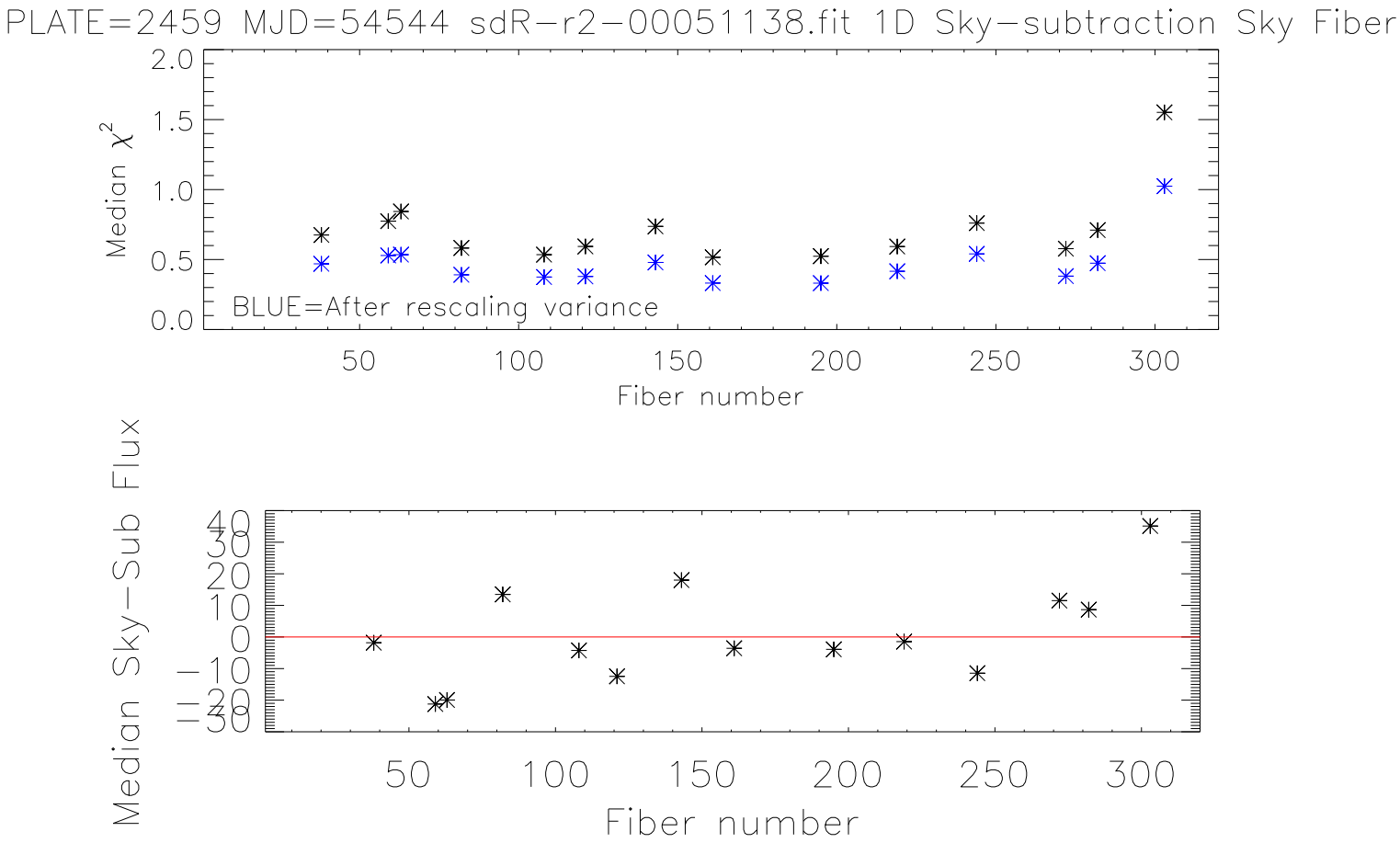

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

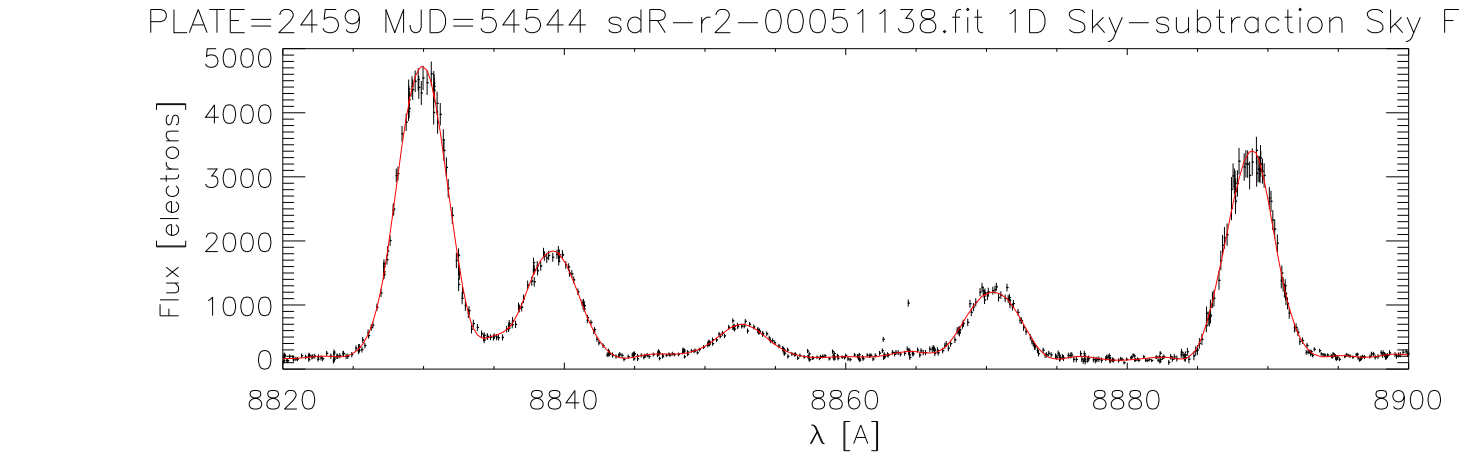

6300.3040
stdev 0.19
extra 0.14
6363.7760
stdev 0.19
extra 0.07
6553.6100
stdev 0.35
extra 0.24
6923.2100
stdev 0.18
extra 0.13
6949.0300
stdev 0.31
extra 0.06
7571.7500
stdev 0.27
extra 0.08
7794.1200
stdev 0.27
extra 0.49
7821.5100
stdev 0.20
extra 0.42
8399.1600
stdev 0.22
extra 0.42
8430.1700
stdev 0.18
extra 0.11
8885.8300
stdev 0.36
extra 0.11
8919.6100
stdev 0.28
extra 0.43
meas − pred, pix

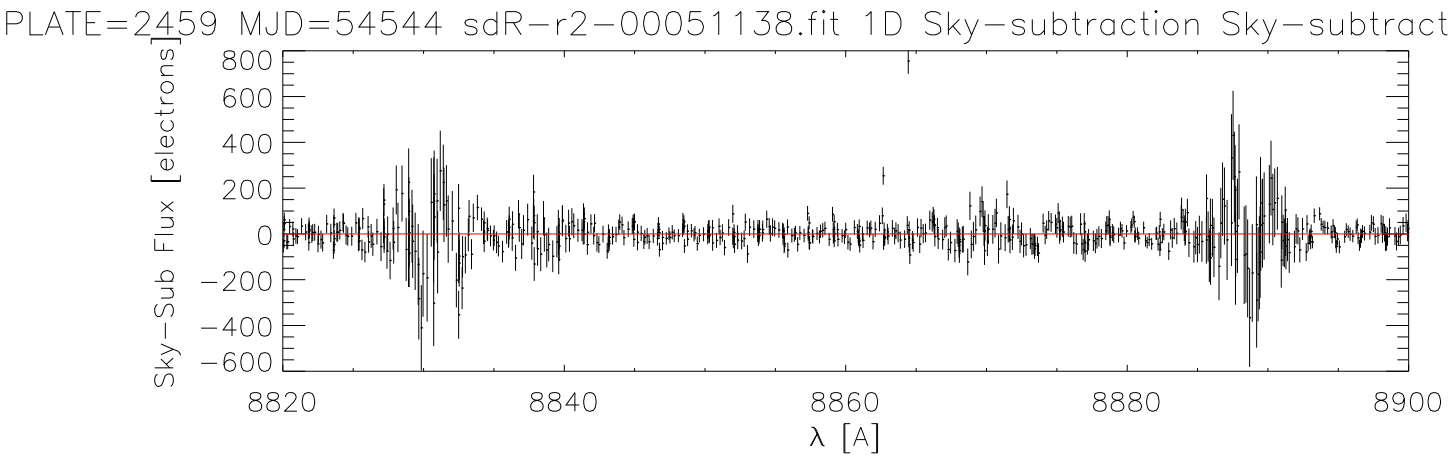

−0.05
−0.10
−0.15
−0.20
−0.25
sky shift, pixels
5000
6000
7000
8000
9000
10000

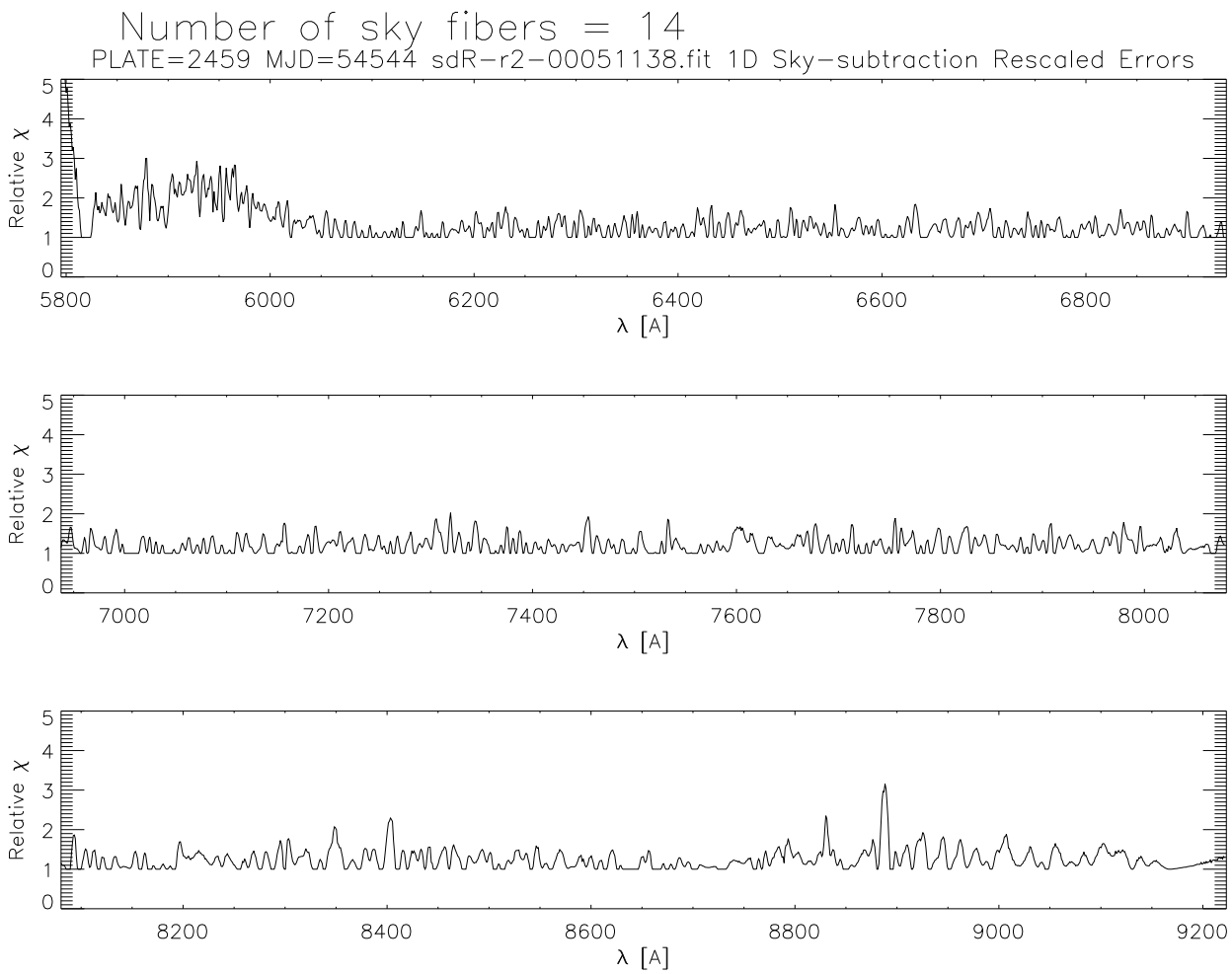
es= 0.0000

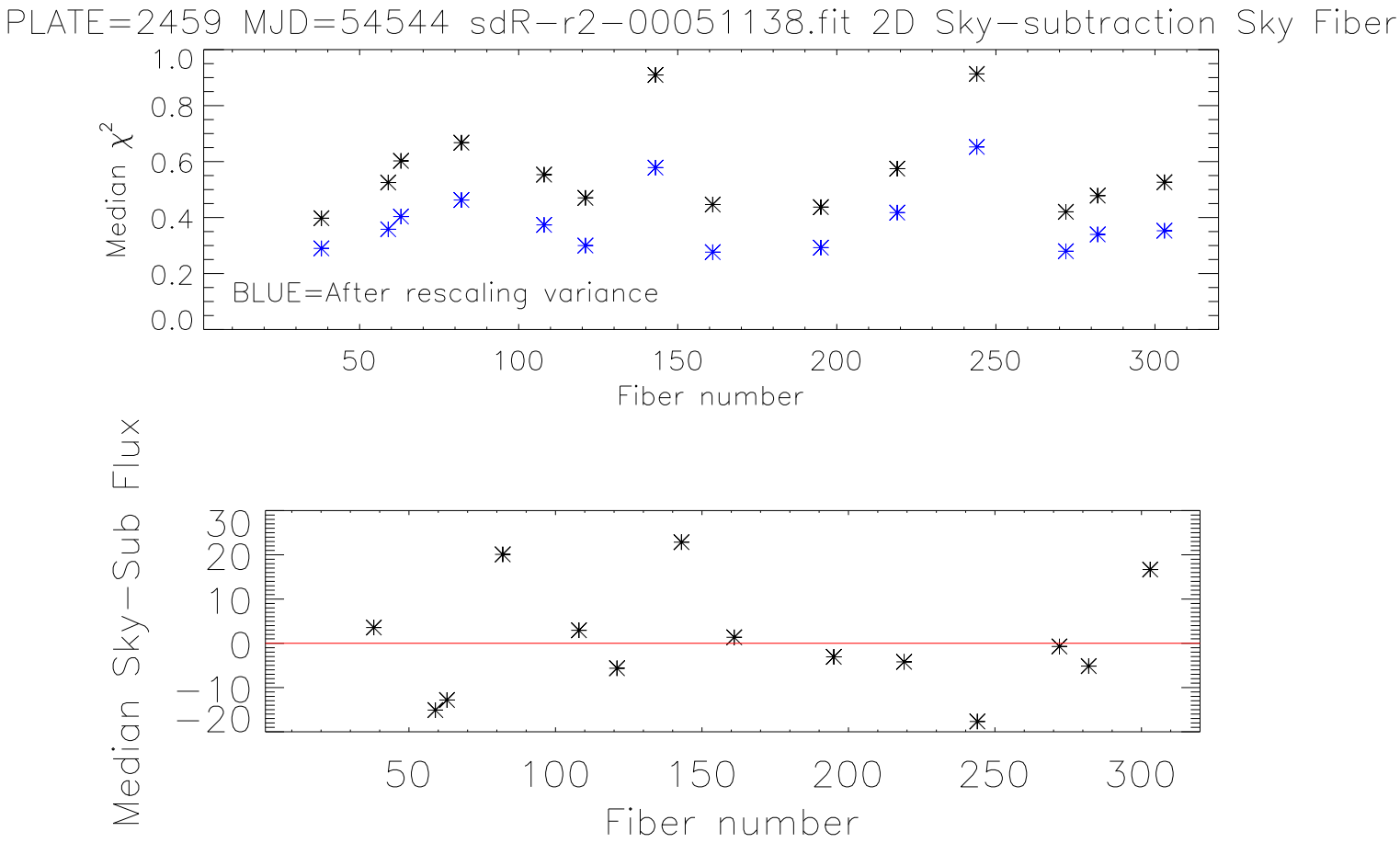

PLATE=2459 MJD=54544 Smooth superflat for sdR-r2-00051138.fit
2.0
1.5
1.0
0.5
0.0
1.004
1.002
1.000
0.998
0.996
6000
7000
8000
9000
Wavelength (Å)

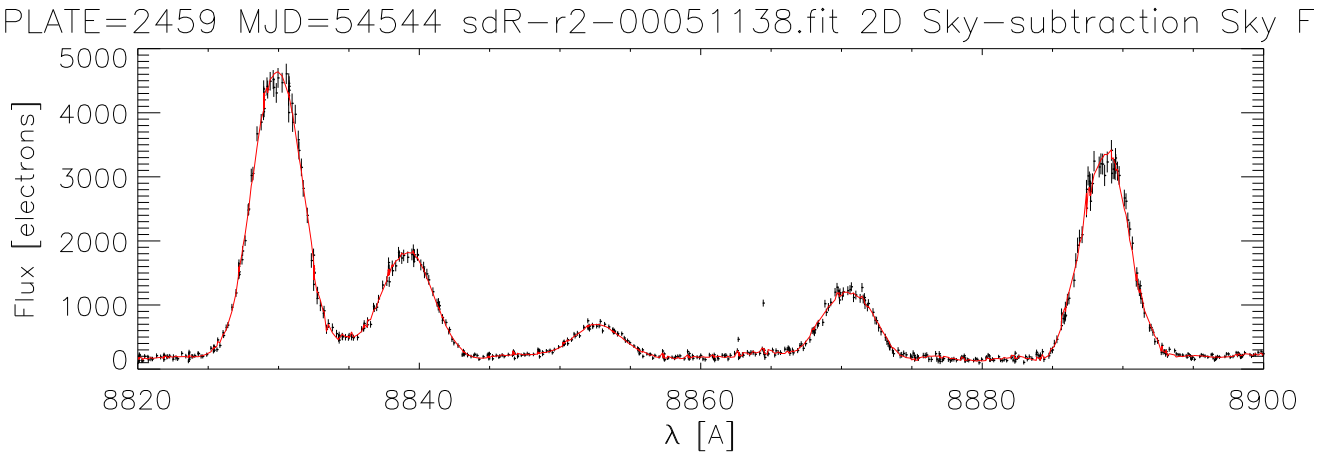

PLATE=2459 MJD=54544 sdR-r2-00051138.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

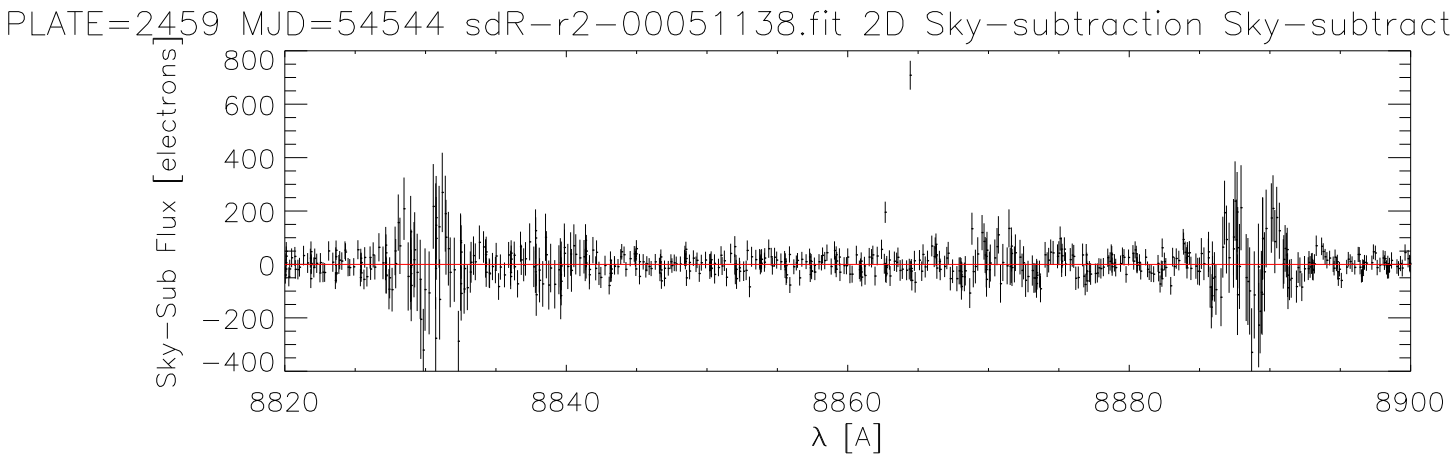

PLATE=2459 MJD=54544 sdR-r2-00051138.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

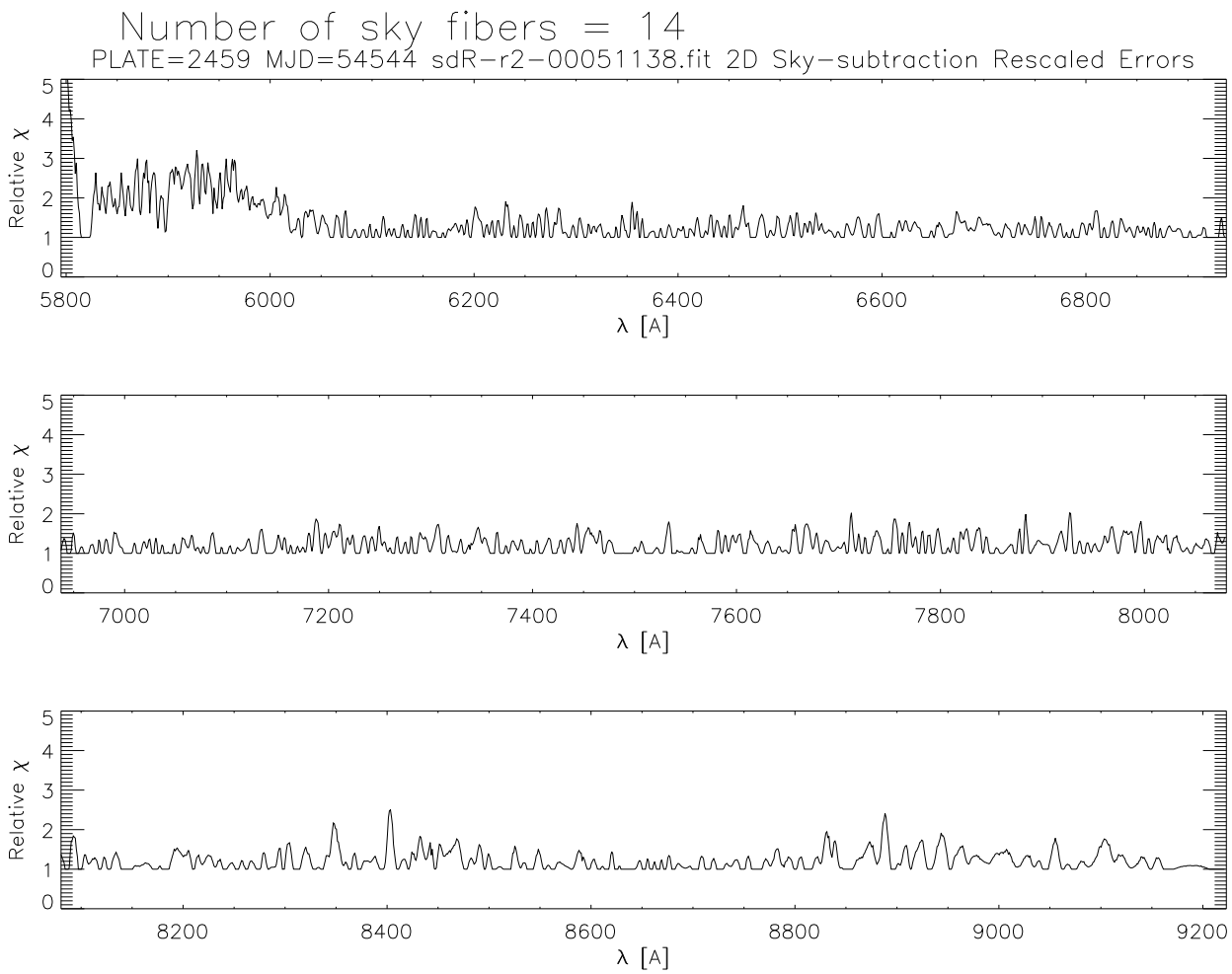

PLATE=2459 MJD=54544 sdR-r2-00051138.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
-400
-600
8820
8840
8860
8880
8900
λ [A]

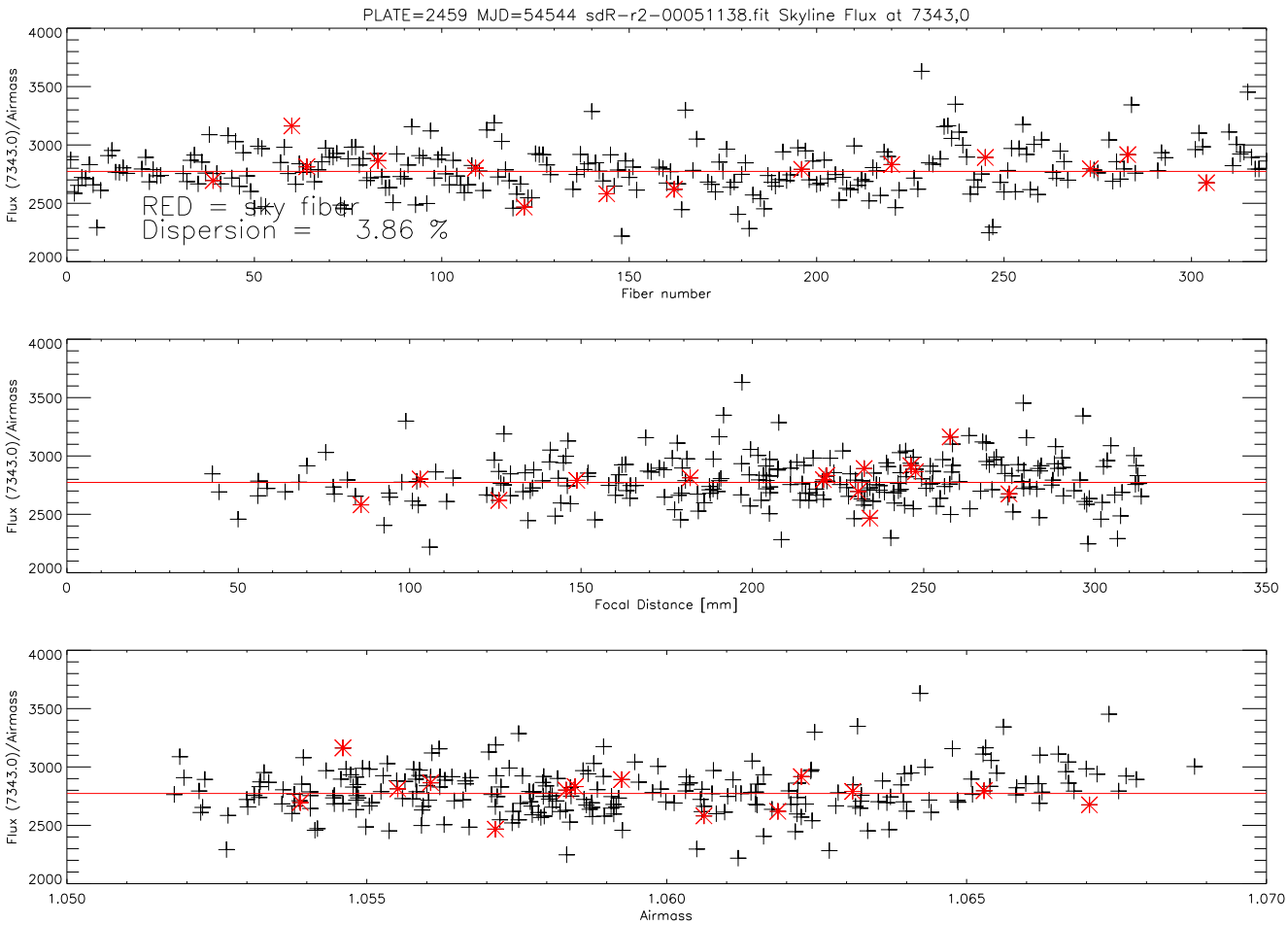

Number of sky fibers = 14
PLATE=2459 MJD=54544 sdR-r2-00051138.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

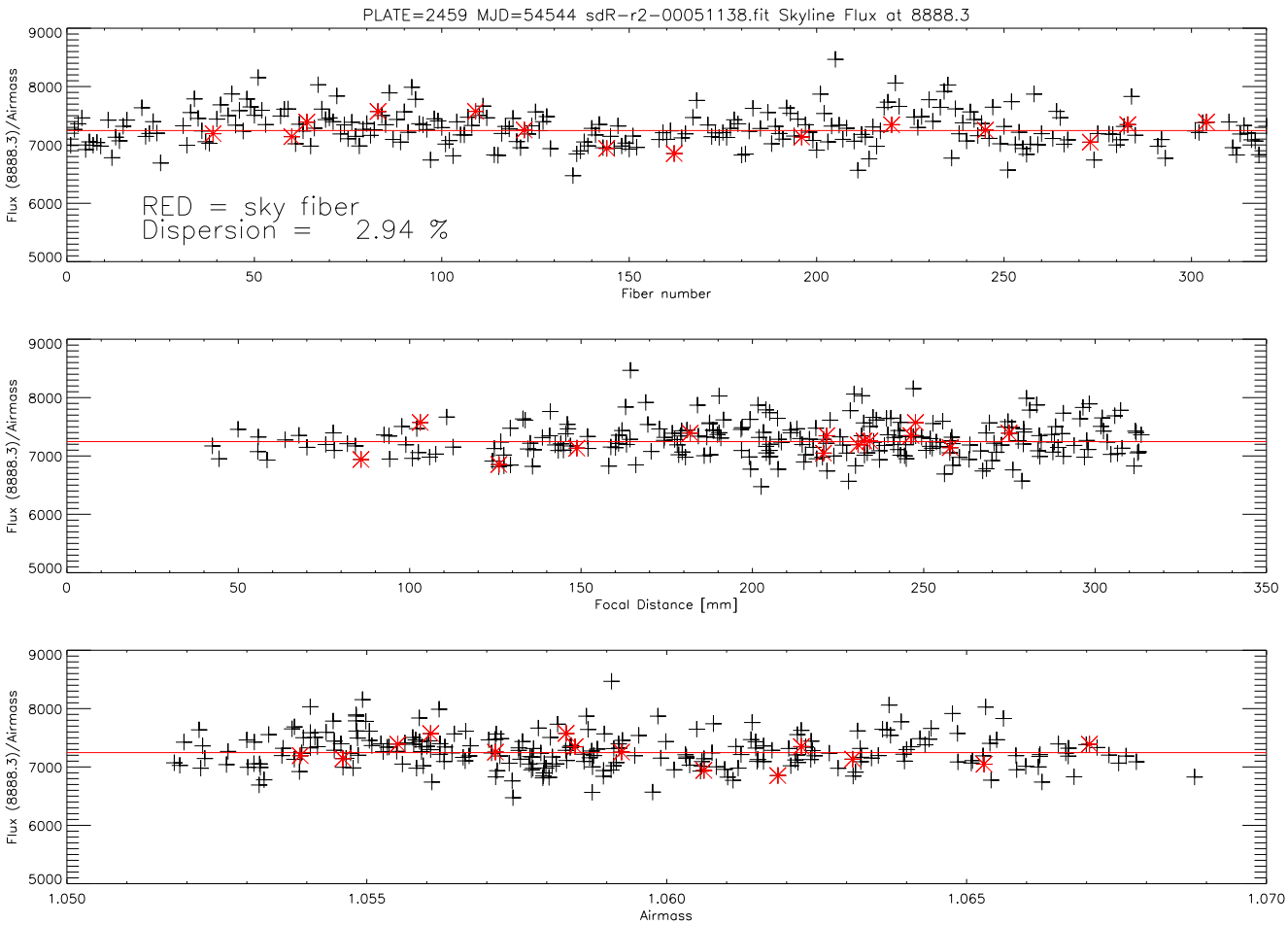

PLATE=2459 MJD=54544 sdR-r2-00051138.fit 2D Sky-subtraction Sky Fibers
Median χ^2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
30
20
10
0
-10
-20
50
100
150
200
250
300
Fiber number

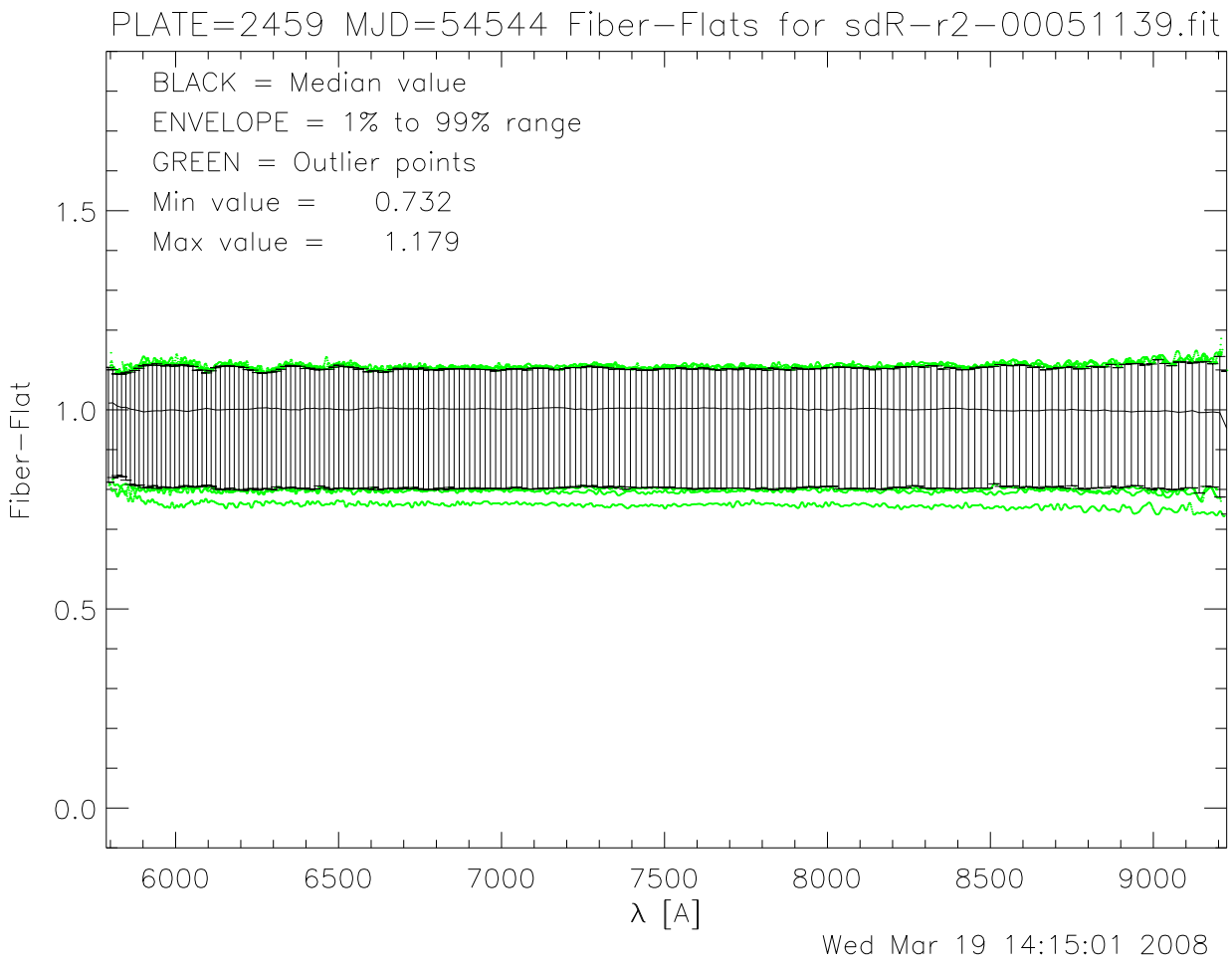

PLATE=2459 MJD=54544 sdR-r2-00051138.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

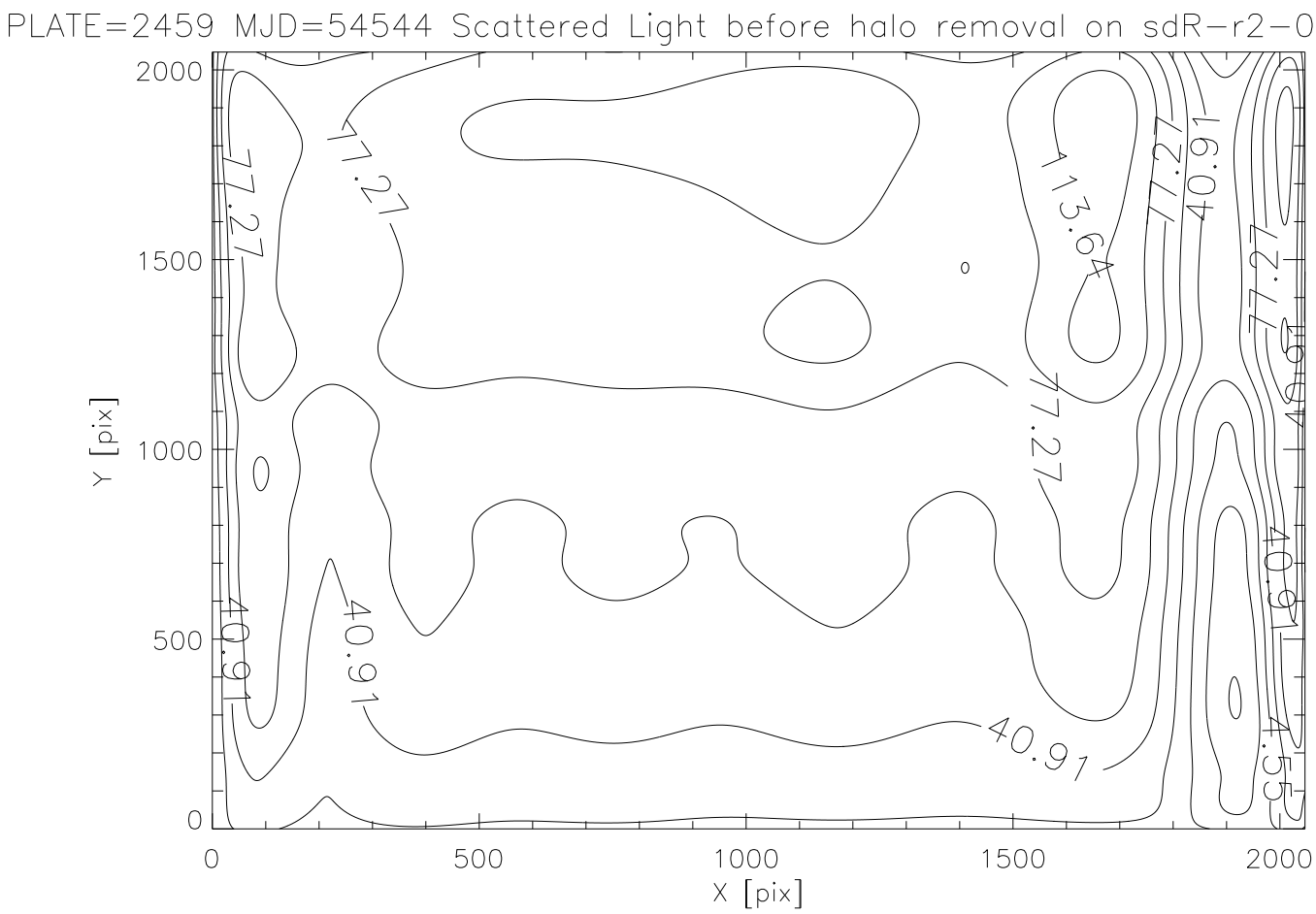

PLATE=2459 MJD=54544 sdR-r2-00051138.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

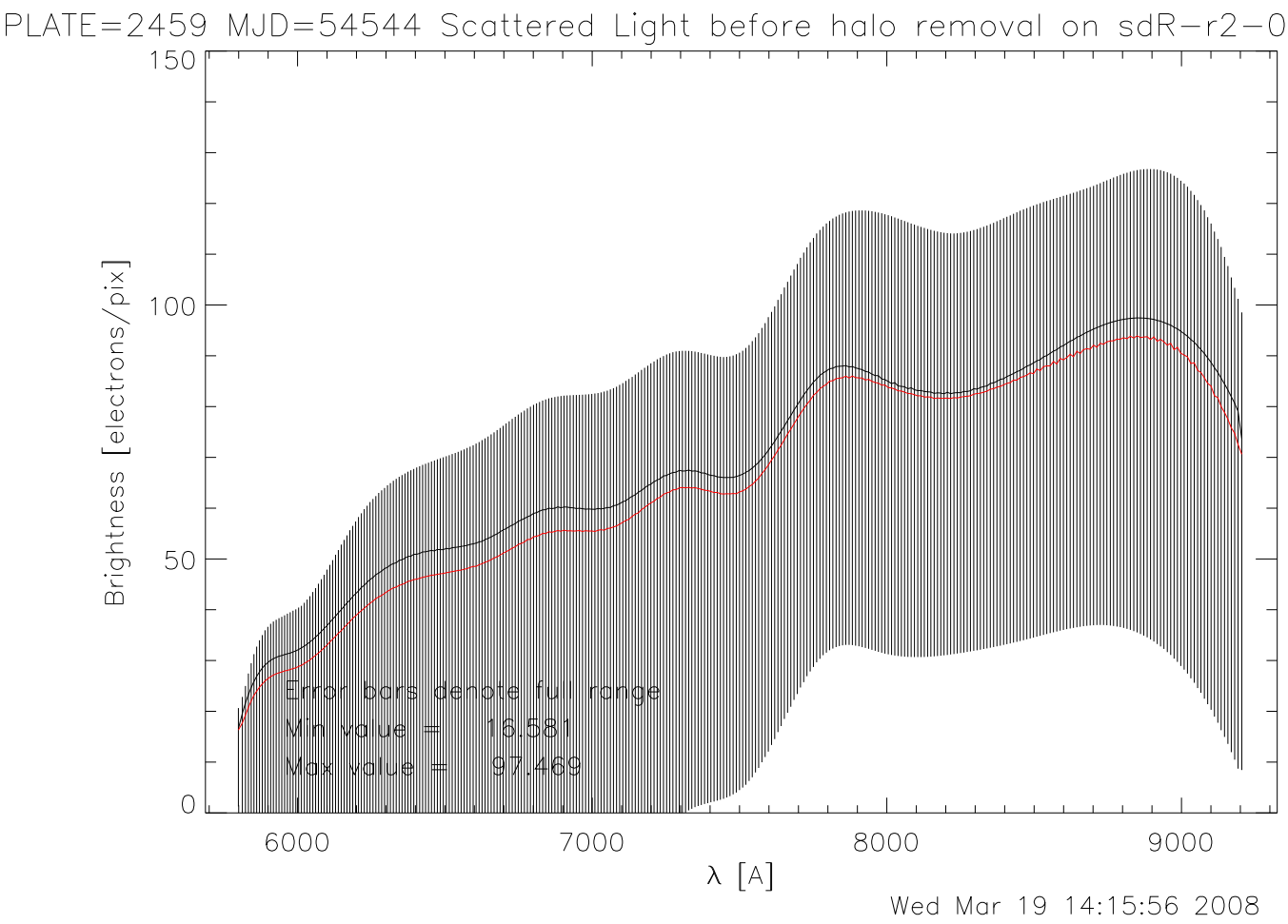

Number of sky fibers = 14
PLATE=2459 MJD=54544 sdR-r2-00051138.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

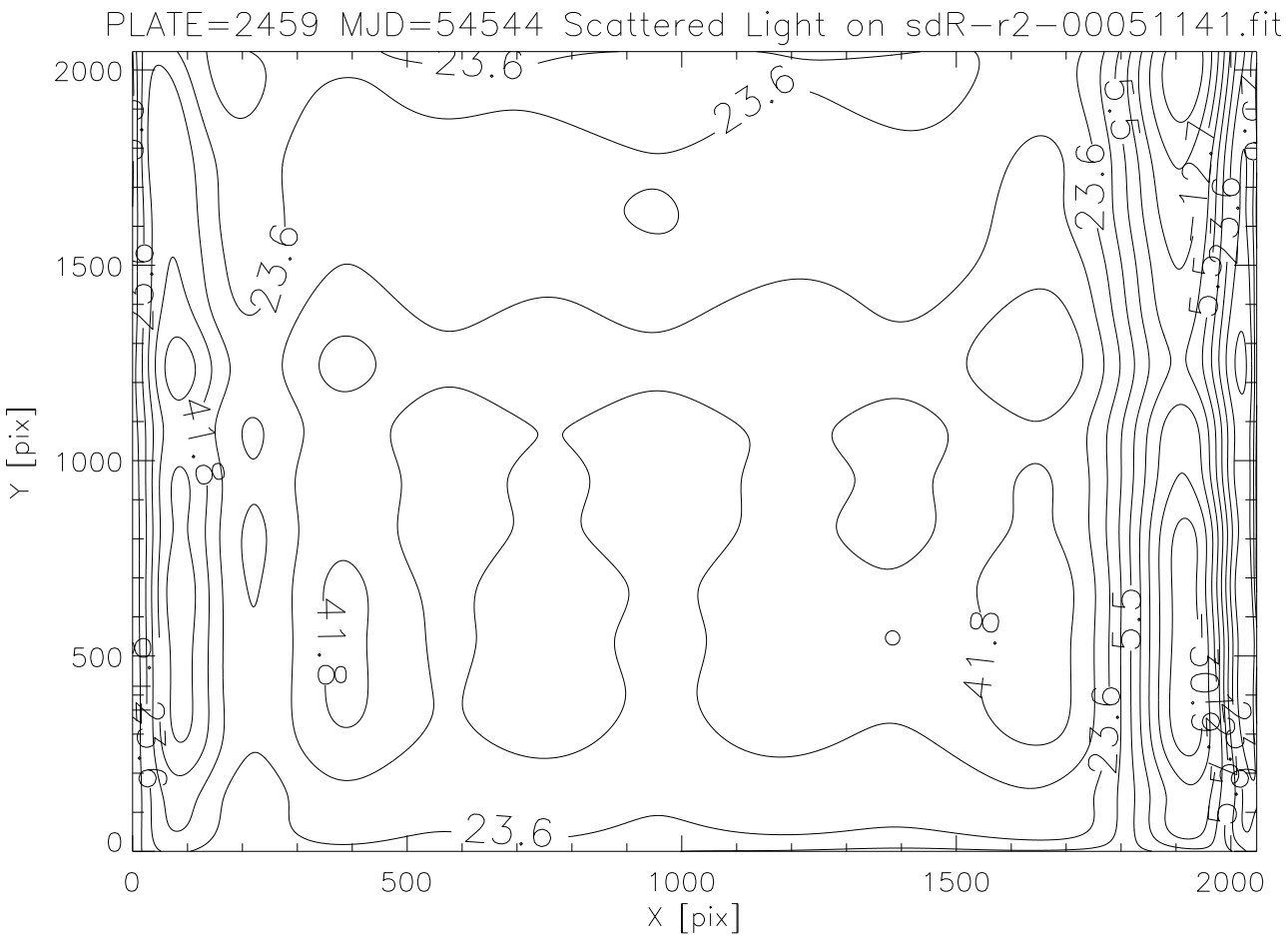

PLATE=2459 MJD=54544 sdR-r2-00051138.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.86 %
Fiber number
Focal Distance [mm]
Airmass

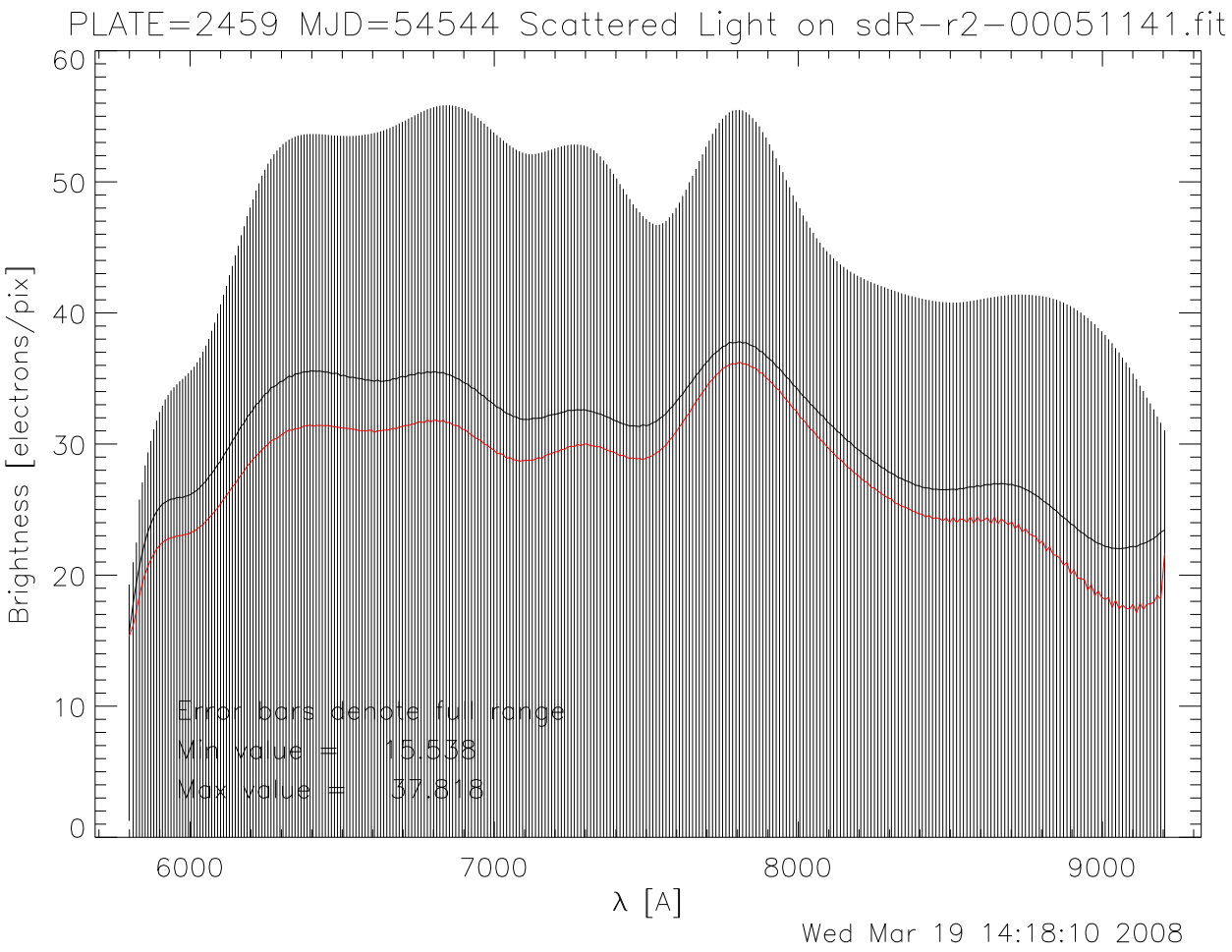

PLATE=2459 MJD=54544 sdR-r2-00051138.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.94 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

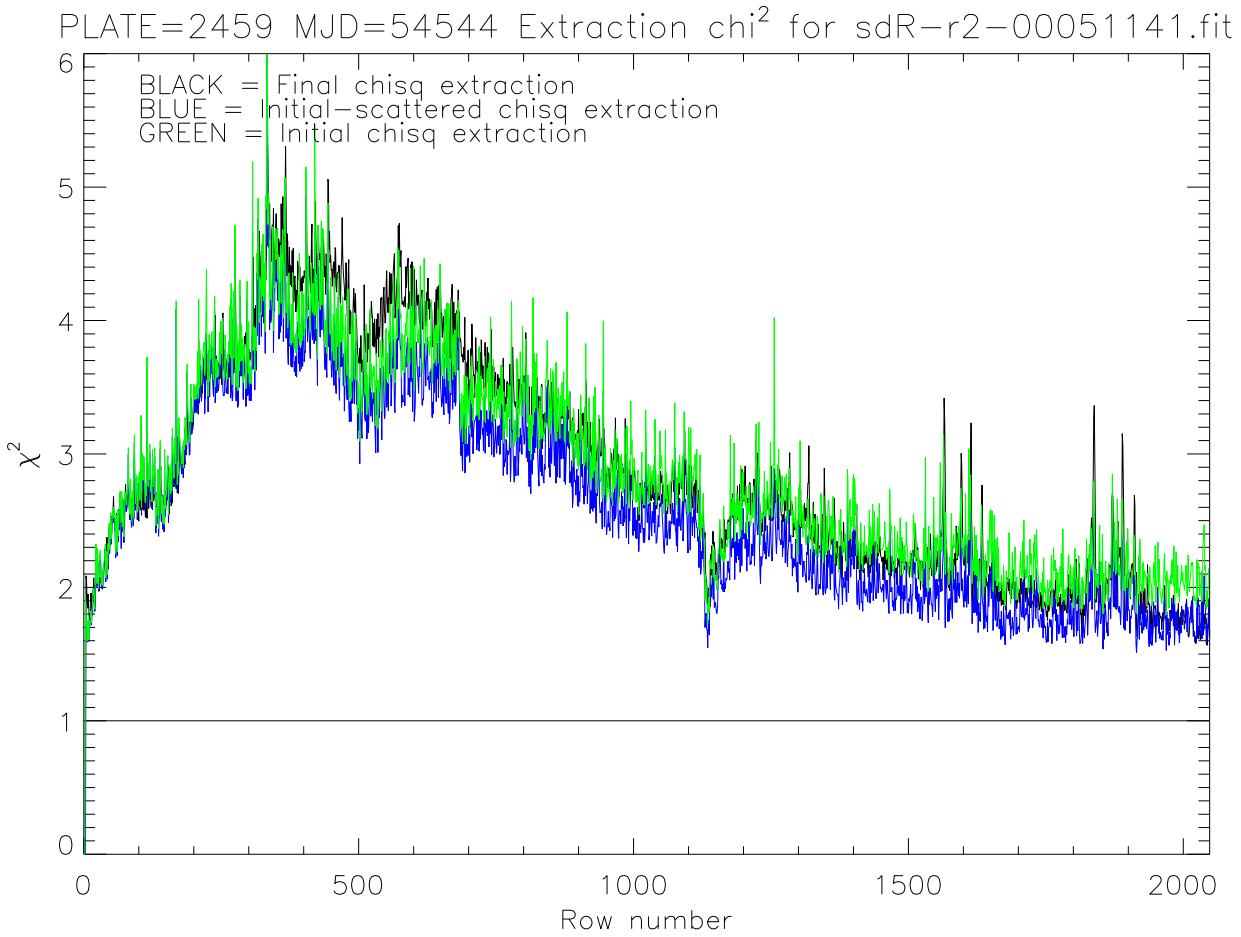

PLATE=2459 MJD=54544 Fiber−Flats for sdR−r2−00051139.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.732
Max value = 1.179
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 19 14:15:01 2008

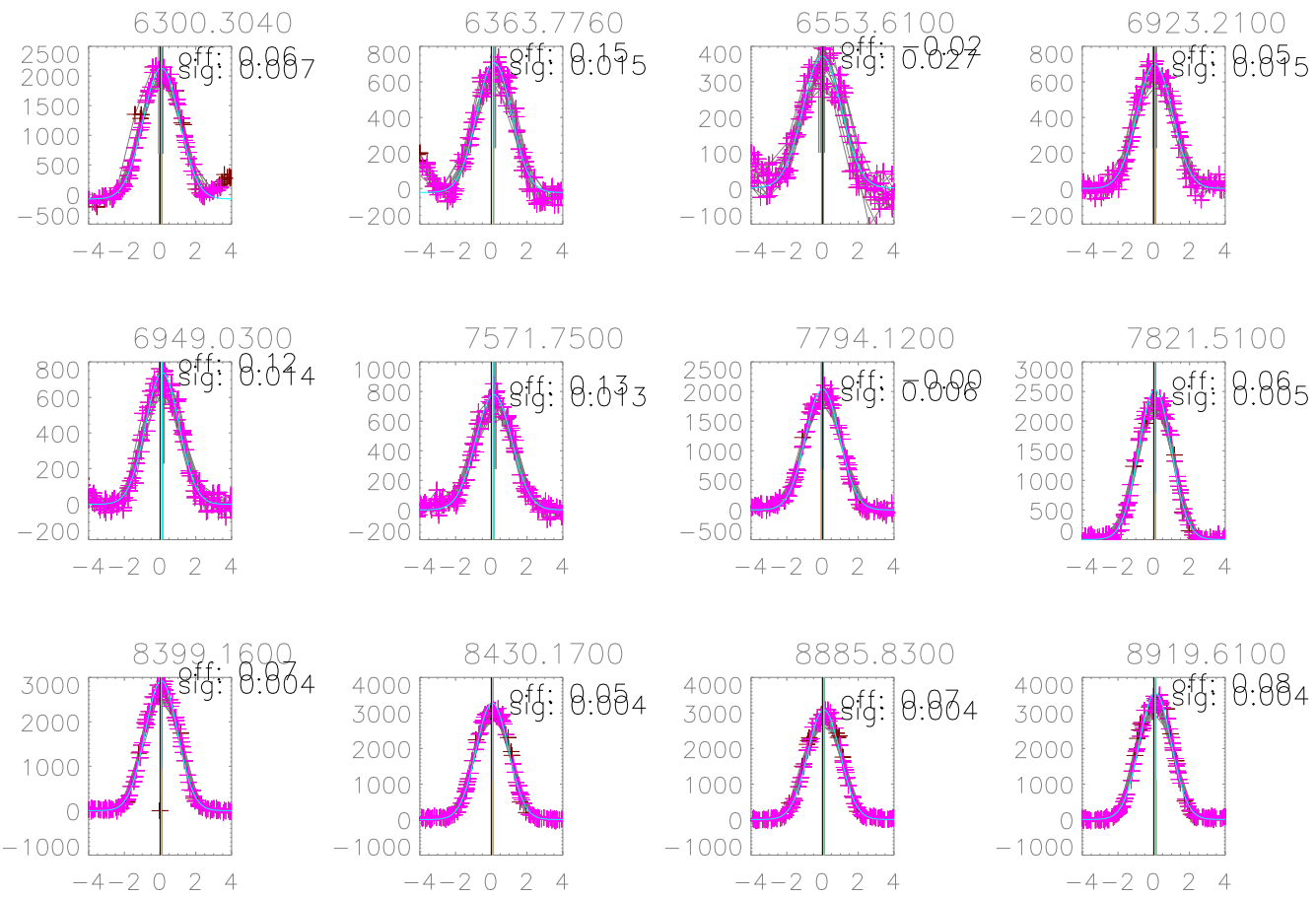

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-r2-00051141.fi
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
77.27
71.27
13.64
16.04
72.77
40.91
4.55
0

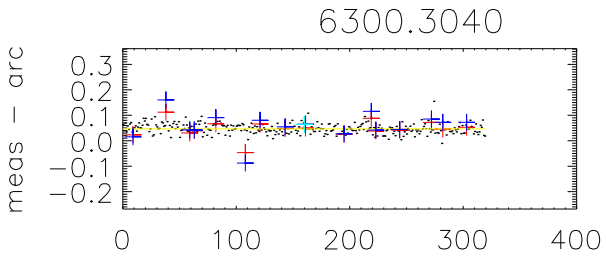

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-r2-00051141.fi
150
100
50
0
Brightness [electrons/pix]
Error bars denote full range
Min value = 16.581
Max value = 97.469
6000
7000
8000
9000
λ [A]
Wed Mar 19 14:15:56 2008

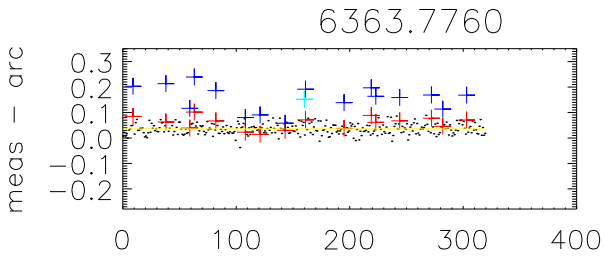

PLATE=2459 MJD=54544 Scattered Light on sdR-r2-00051141.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
23.6
41.8
5.5

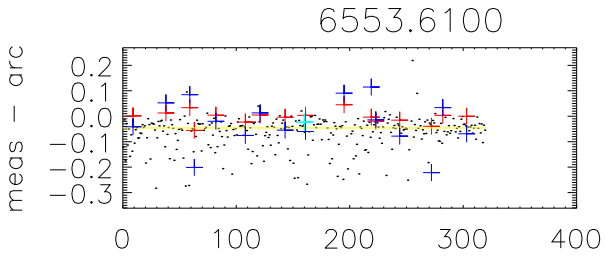

PLATE=2459 MJD=54544 Scattered Light on sdR-r2-00051141.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 15.538
Max value = 37.818
Wed Mar 19 14:18:10 2008

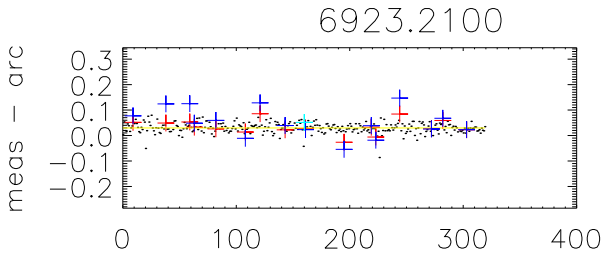

PLATE=2459 MJD=54544 Extraction chi^2 for sdR−r2−00051141.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
6
0
500
1000
1500
2000

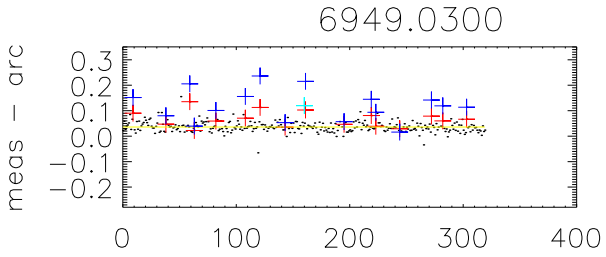

6300.3040
off: 0.06
sig: 0.007
6363.7760
off: 0.15
sig: 0.015
6553.6100
off: −0.02
sig: 0.027
6923.2100
off: 0.05
sig: 0.015
6949.0300
off: 0.12
sig: 0.014
7571.7500
off: 0.13
sig: 0.013
7794.1200
off: −0.00
sig: 0.006
7821.5100
off: 0.06
sig: 0.005
8399.1600
off: 0.07
sig: 0.004
8430.1700
off: 0.05
sig: 0.004
8885.8300
off: 0.07
sig: 0.004
8919.6100
off: 0.08
sig: 0.004

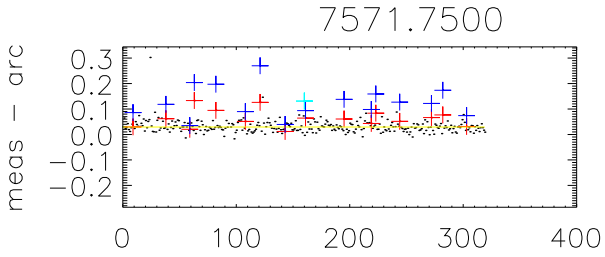

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

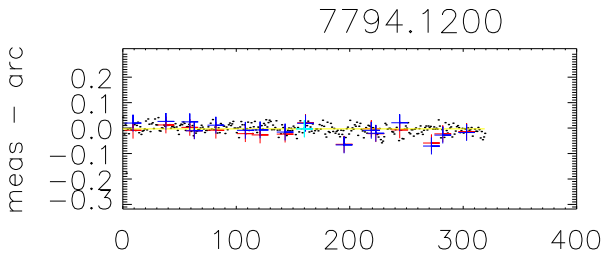

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

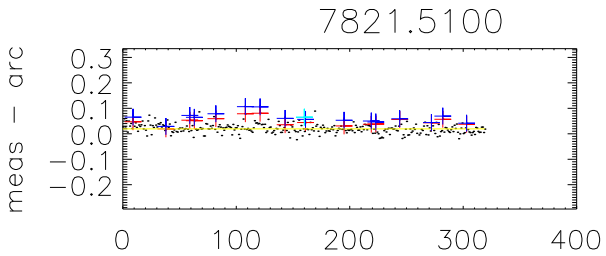

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

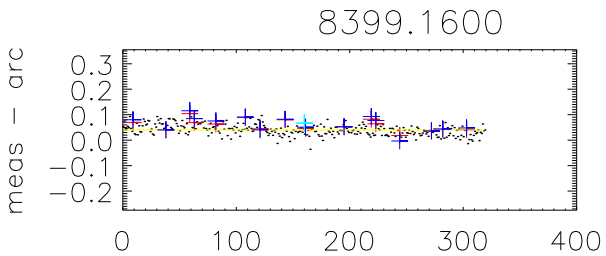

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

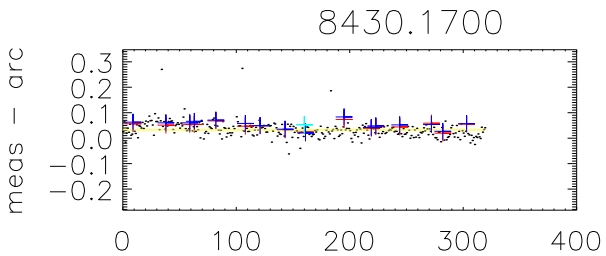

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

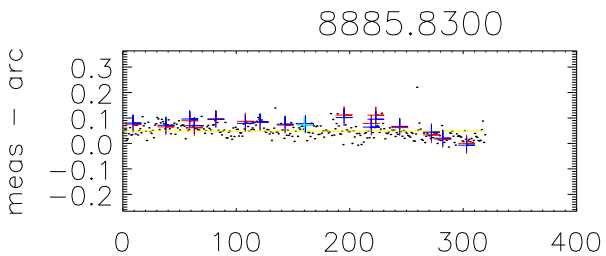

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

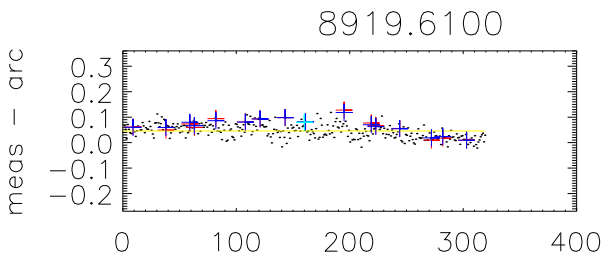

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

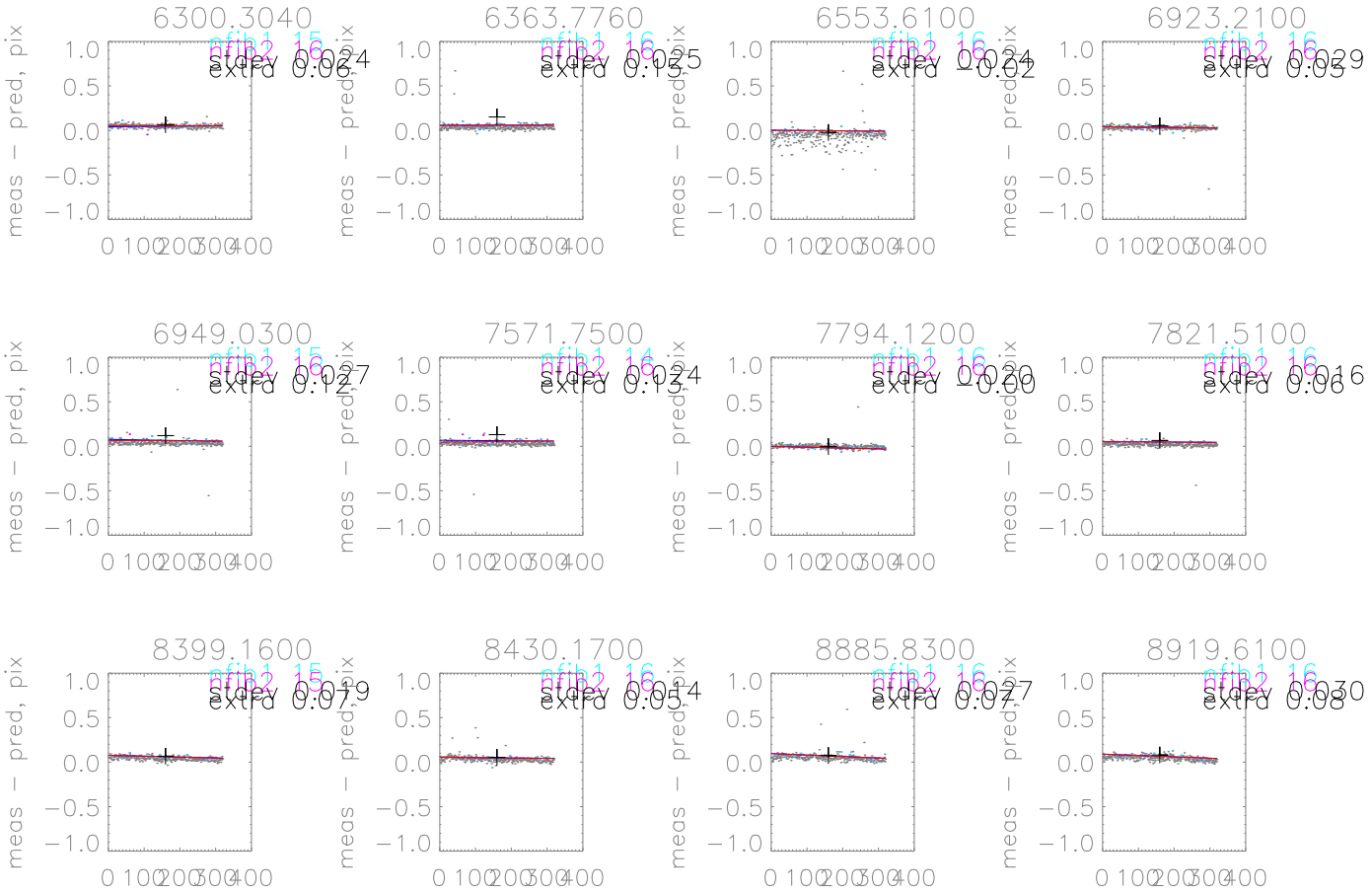

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

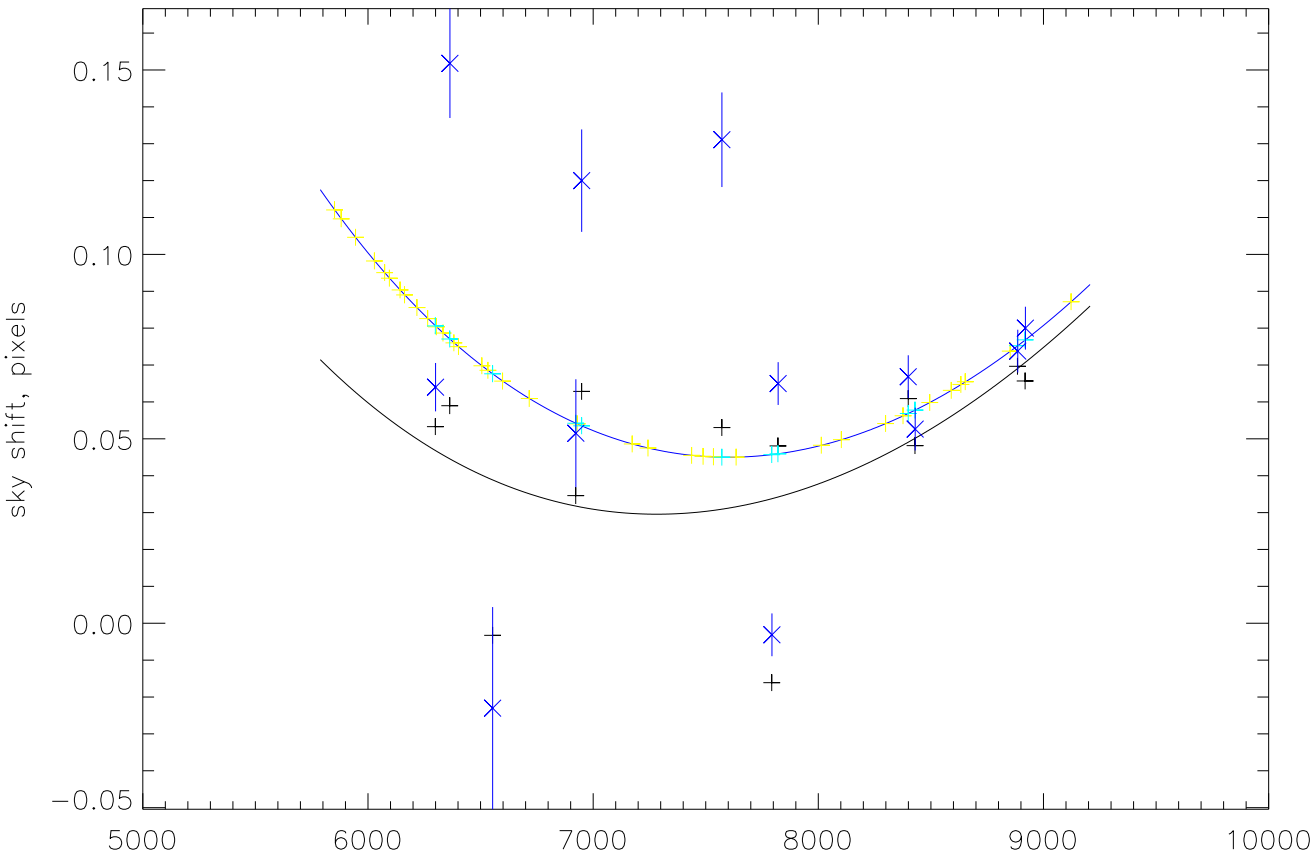

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

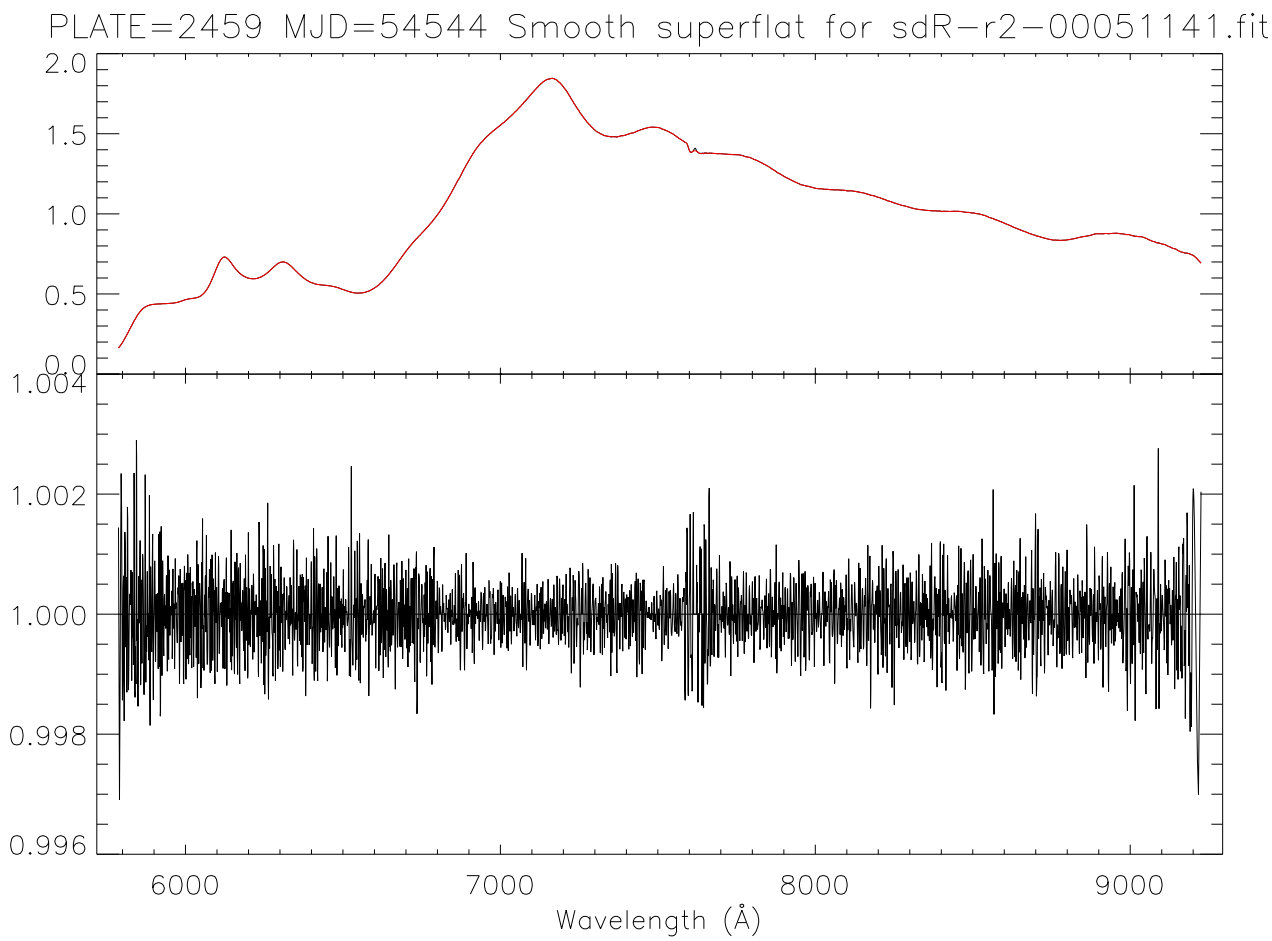

8885.8300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

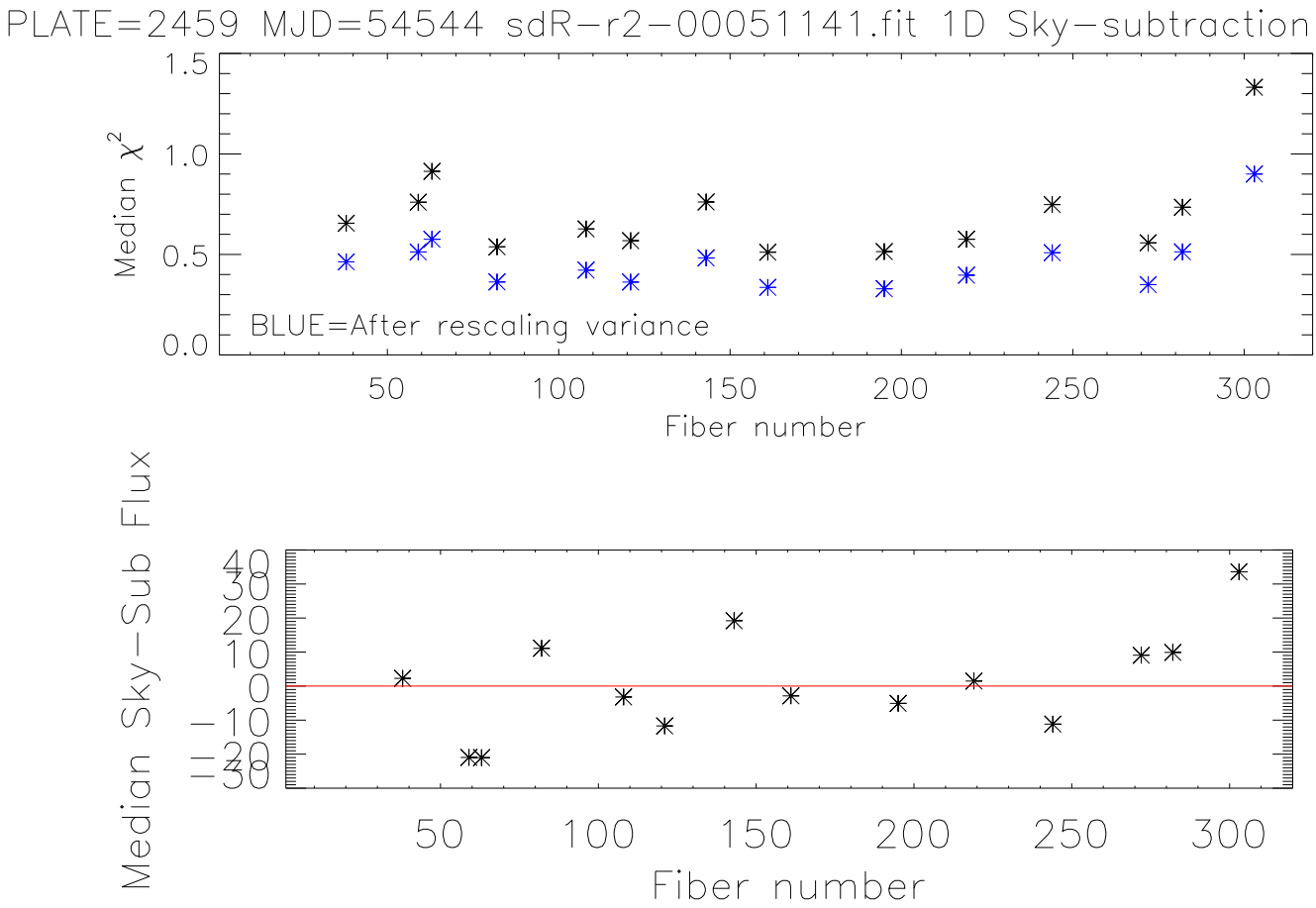

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

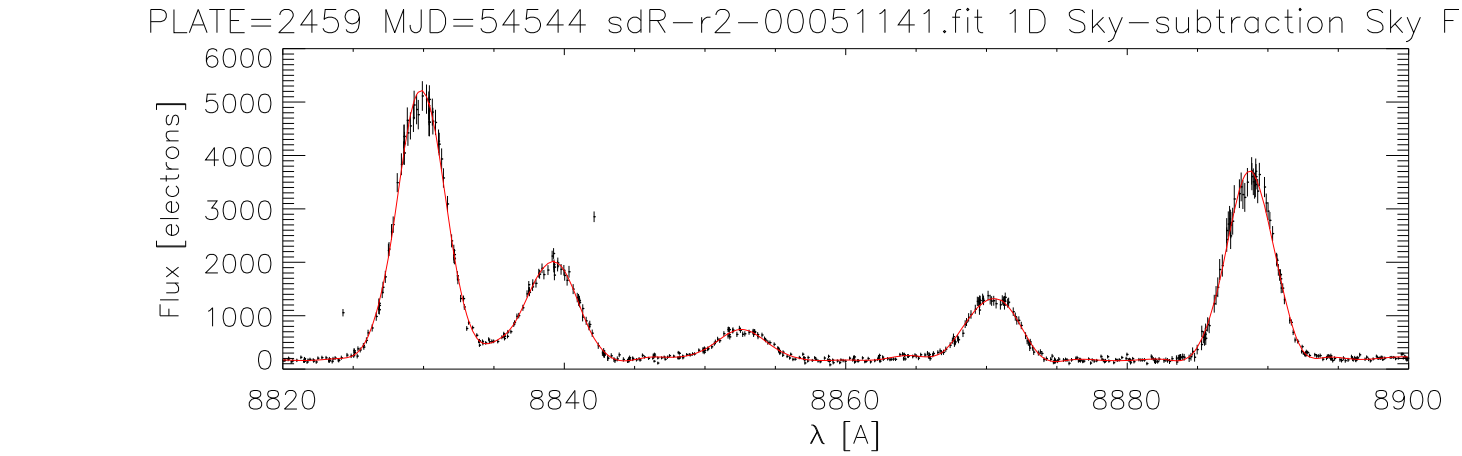

6300.3040
stdev 0.024
extra 0.06
6363.7760
stdev 0.025
extra 0.15
6553.6100
stdev 0.024
extra −0.02
6923.2100
stdev 0.029
extra 0.05
6949.0300
stdev 0.027
extra 0.12
7571.7500
stdev 0.024
extra 0.13
7794.1200
stdev 0.030
extra −0.00
7821.5100
stdev 0.016
extra 0.06
8399.1600
stdev 0.079
extra 0.07
8430.1700
stdev 0.054
extra 0.05
8885.8300
stdev 0.027
extra 0.07
8919.6100
stdev 0.030
extra 0.08
meas − pred, pix
mfib1 15
mfib2 16
mfib1 14
mfib2 16
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

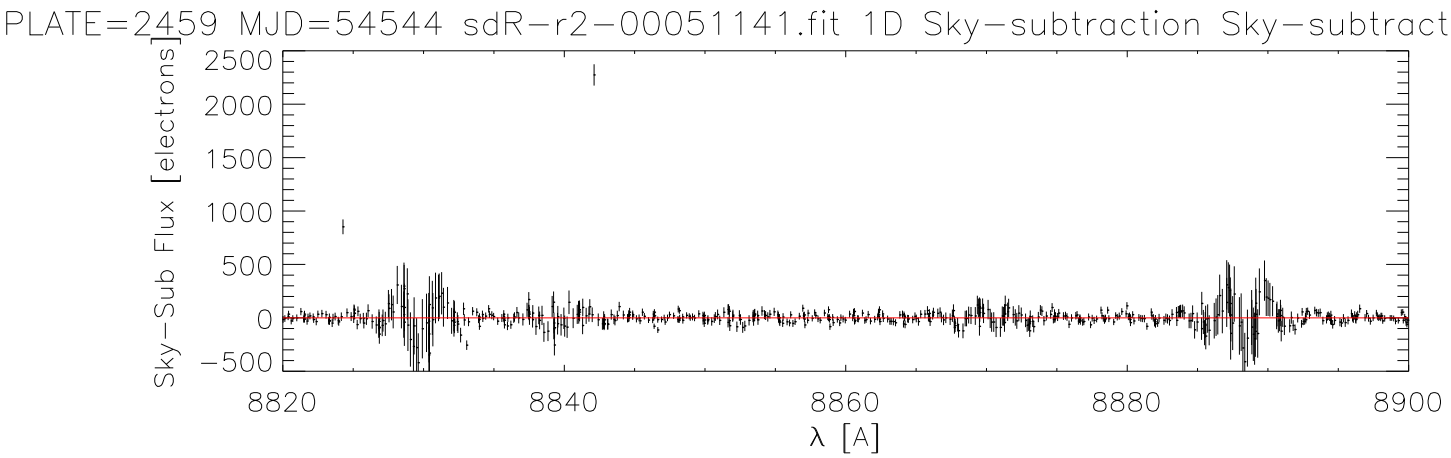

sky shift, pixels
0.15
0.10
0.05
0.00
−0.05
5000
6000
7000
8000
9000
10000

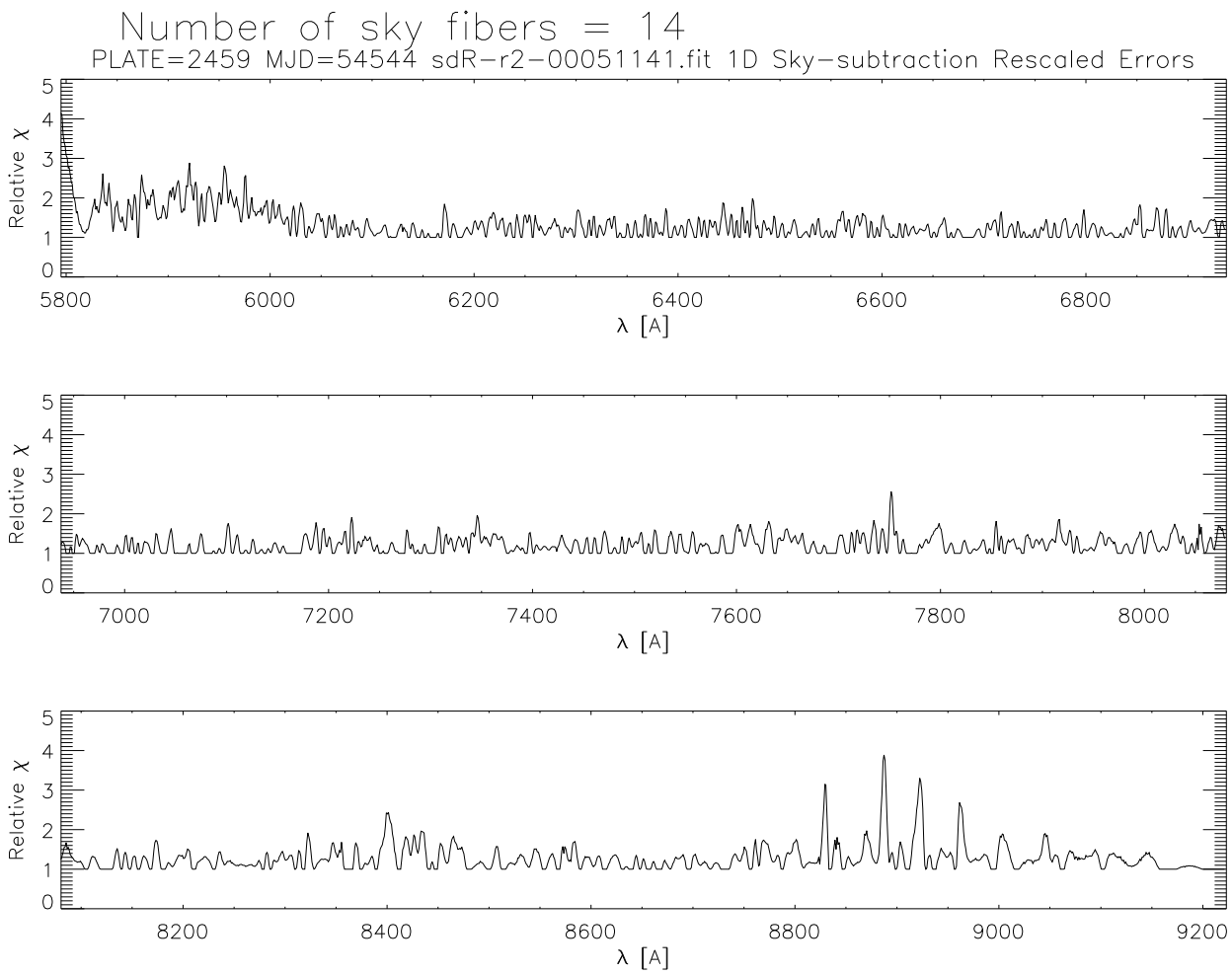
es= 0.0000

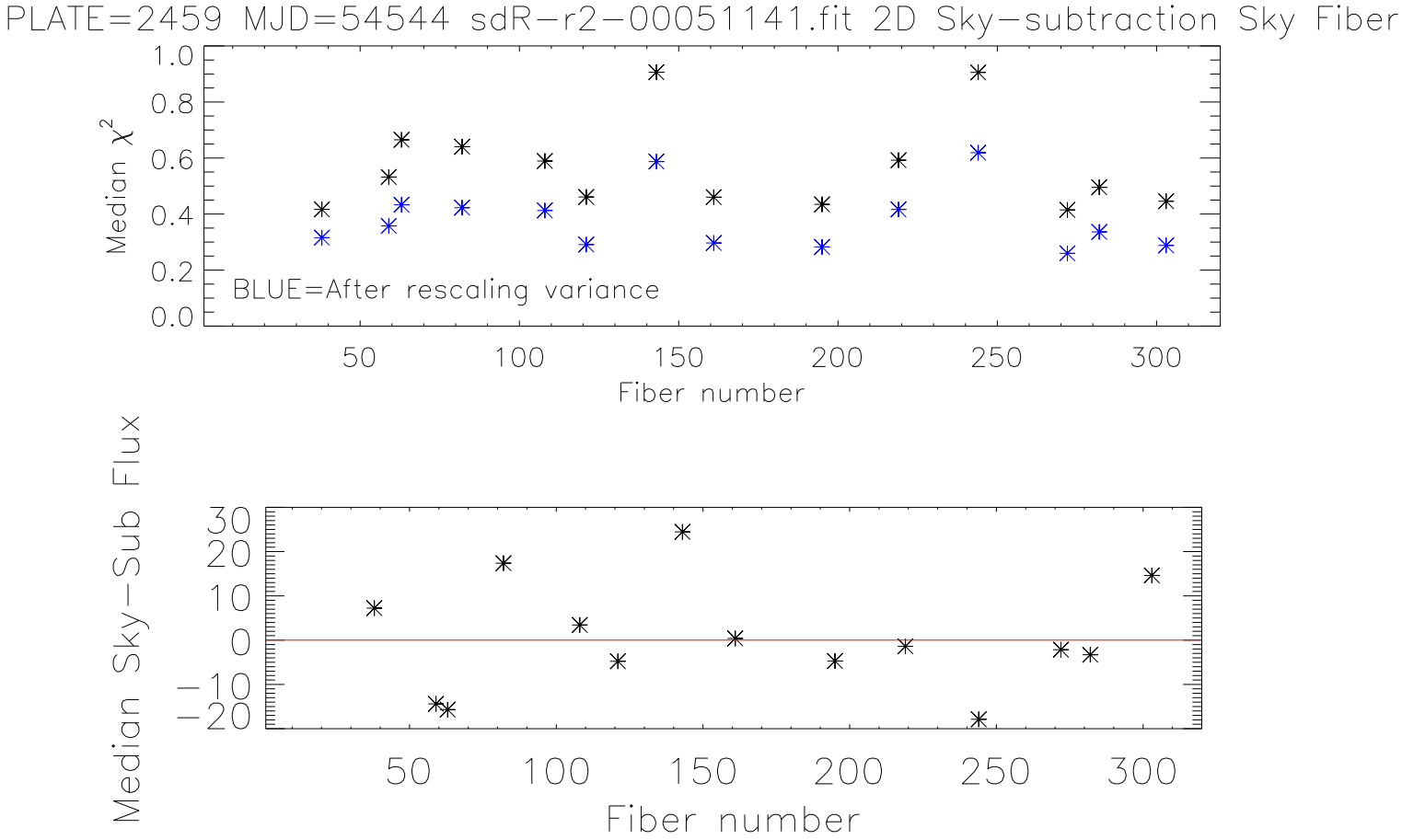

PLATE=2459 MJD=54544 Smooth superflat for sdR-r2-00051141.fit
2.0
1.5
1.0
0.5
0.0
1.004
1.002
1.000
0.998
0.996
6000
7000
8000
9000
Wavelength (Å)

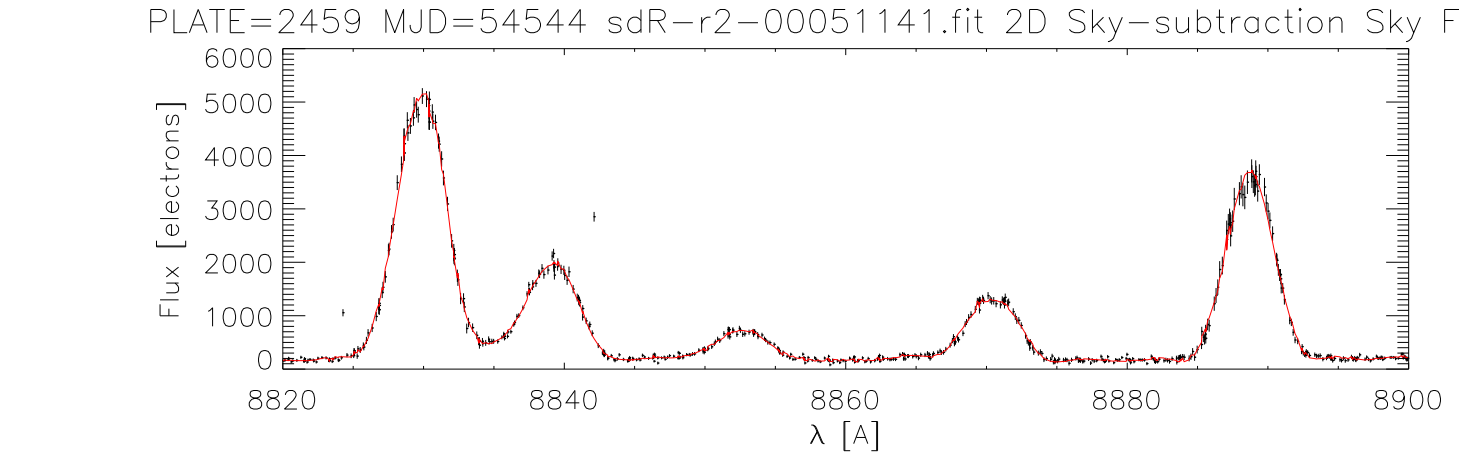

PLATE=2459 MJD=54544 sdR-r2-00051141.fit 1D Sky-subtraction Sky Fibers
Median χ^2
1.5
1.0
0.5
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
40
30
20
10
0
-10
-20
-30
50
100
150
200
250
300
Fiber number

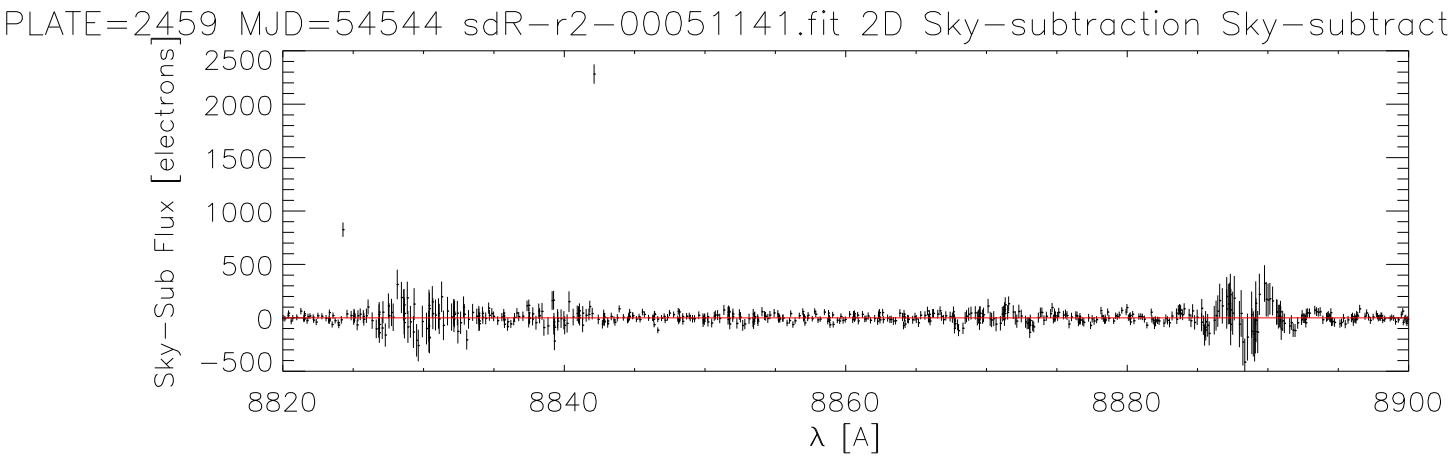

PLATE=2459 MJD=54544 sdR-r2-00051141.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

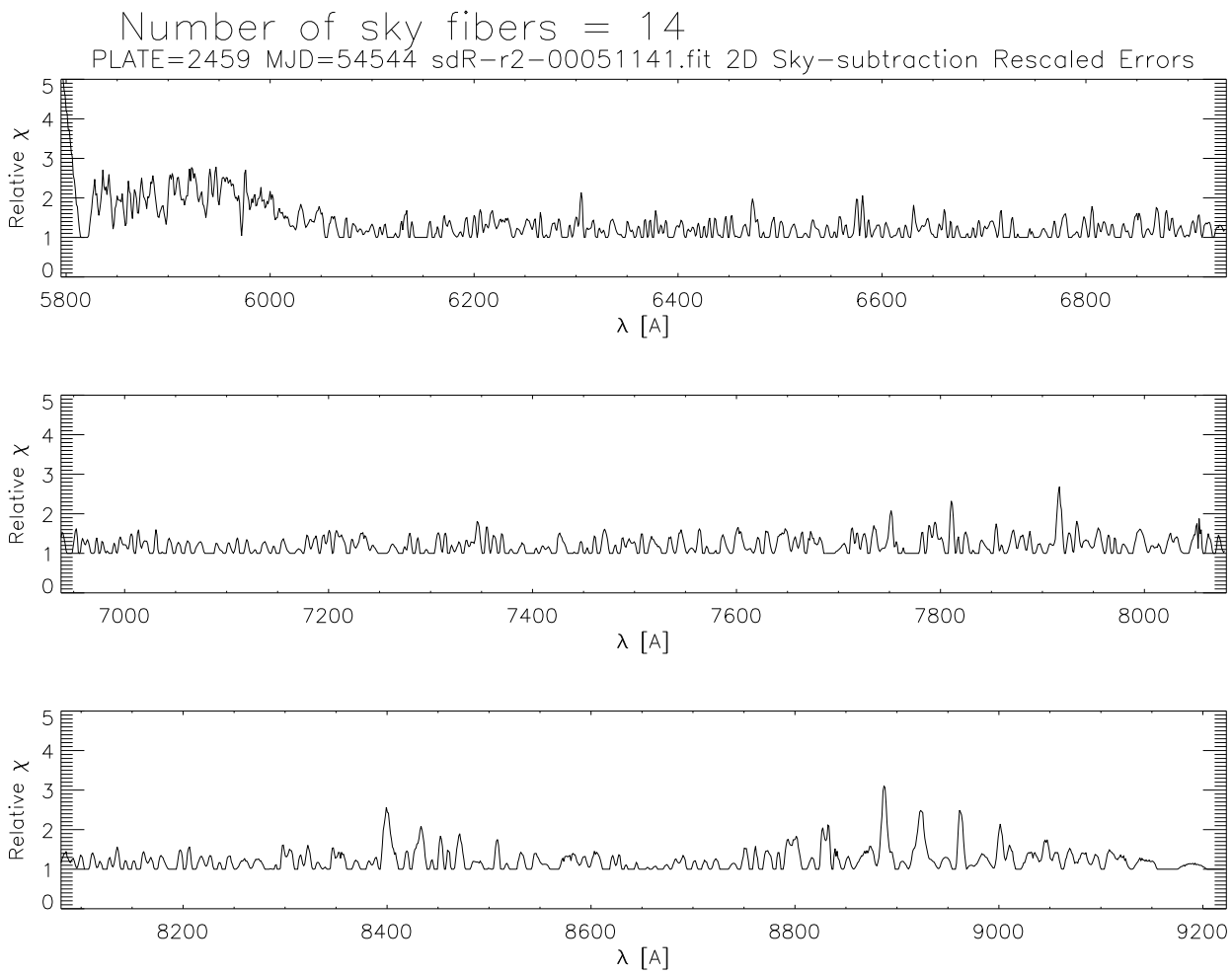

PLATE=2459 MJD=54544 sdR-r2-00051141.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2500
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

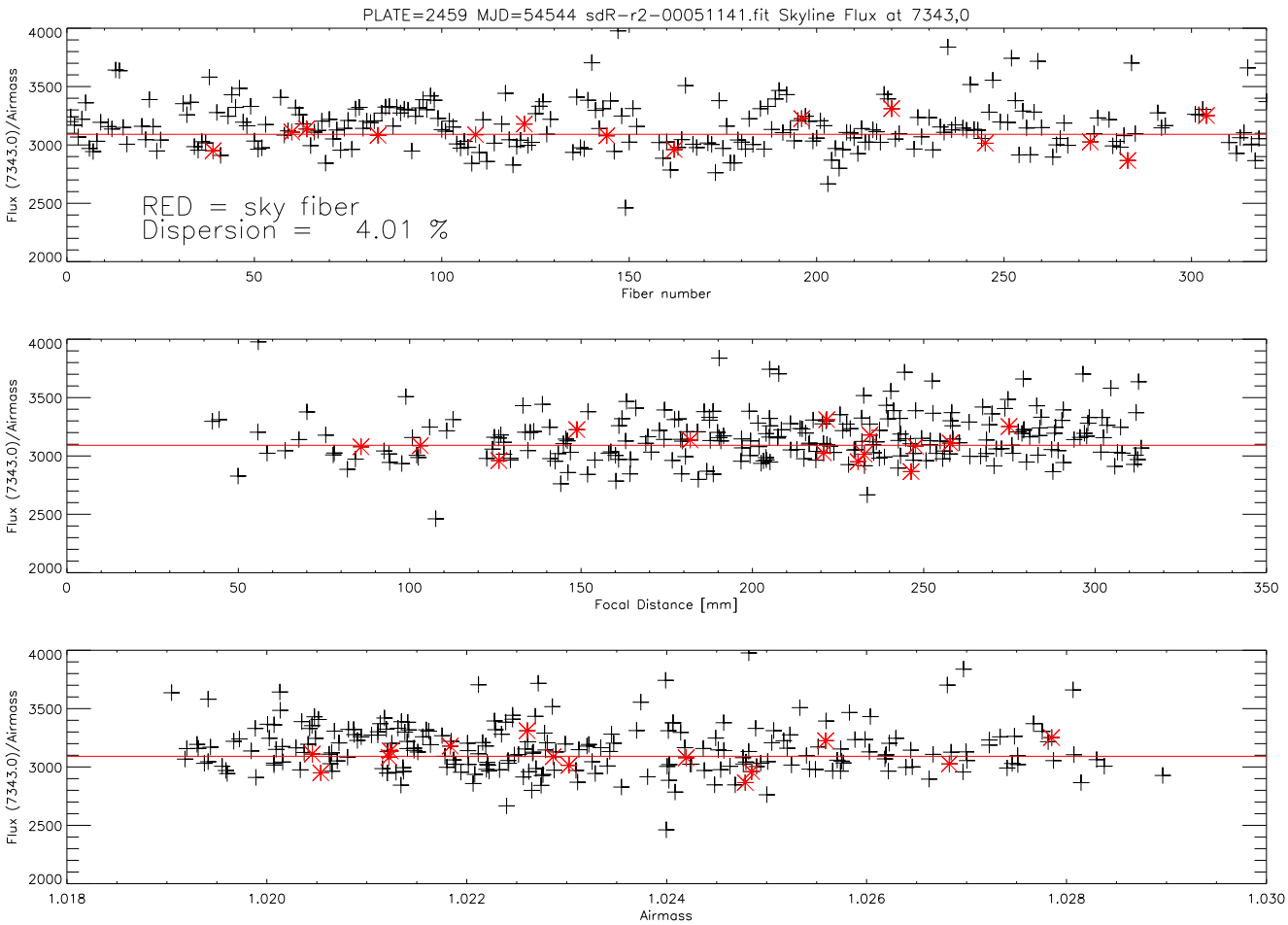

Number of sky fibers = 14
PLATE=2459 MJD=54544 sdR-r2-00051141.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

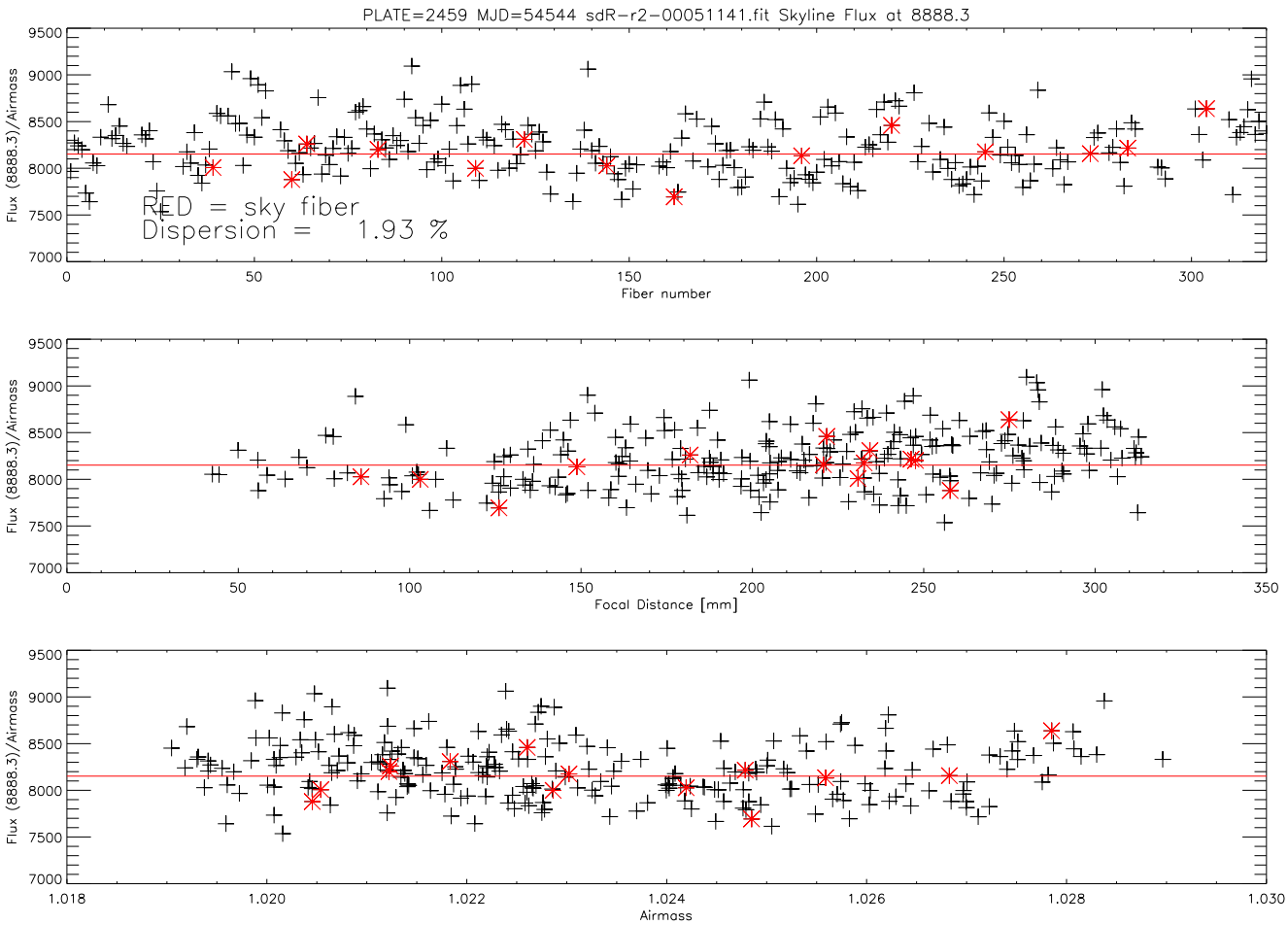

PLATE=2459 MJD=54544 sdR-r2-00051141.fit 2D Sky-subtraction Sky Fibers
Median χ^2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
30
20
10
0
-10
-20
50
100
150
200
250
300
Fiber number

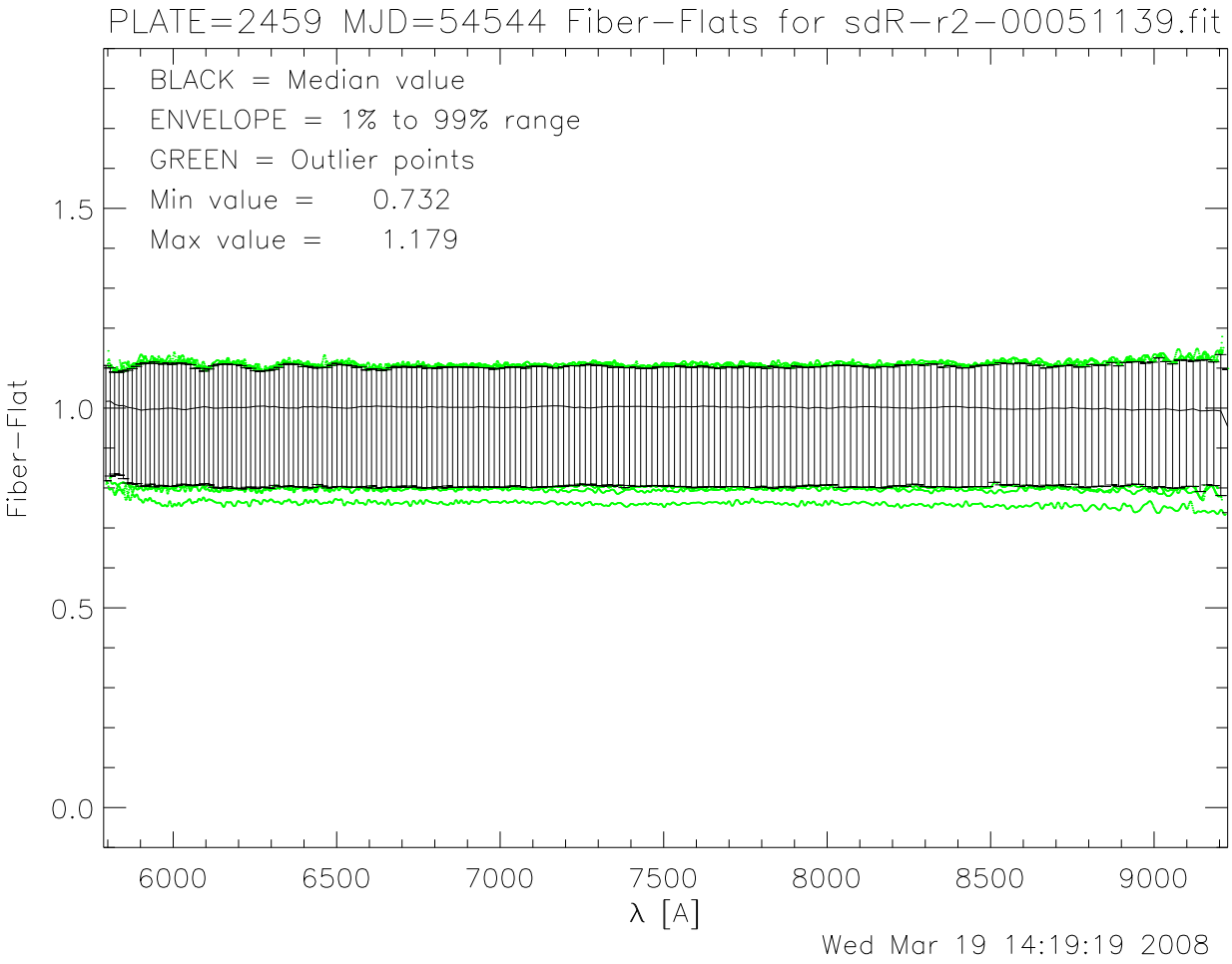

PLATE=2459 MJD=54544 sdR-r2-00051141.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

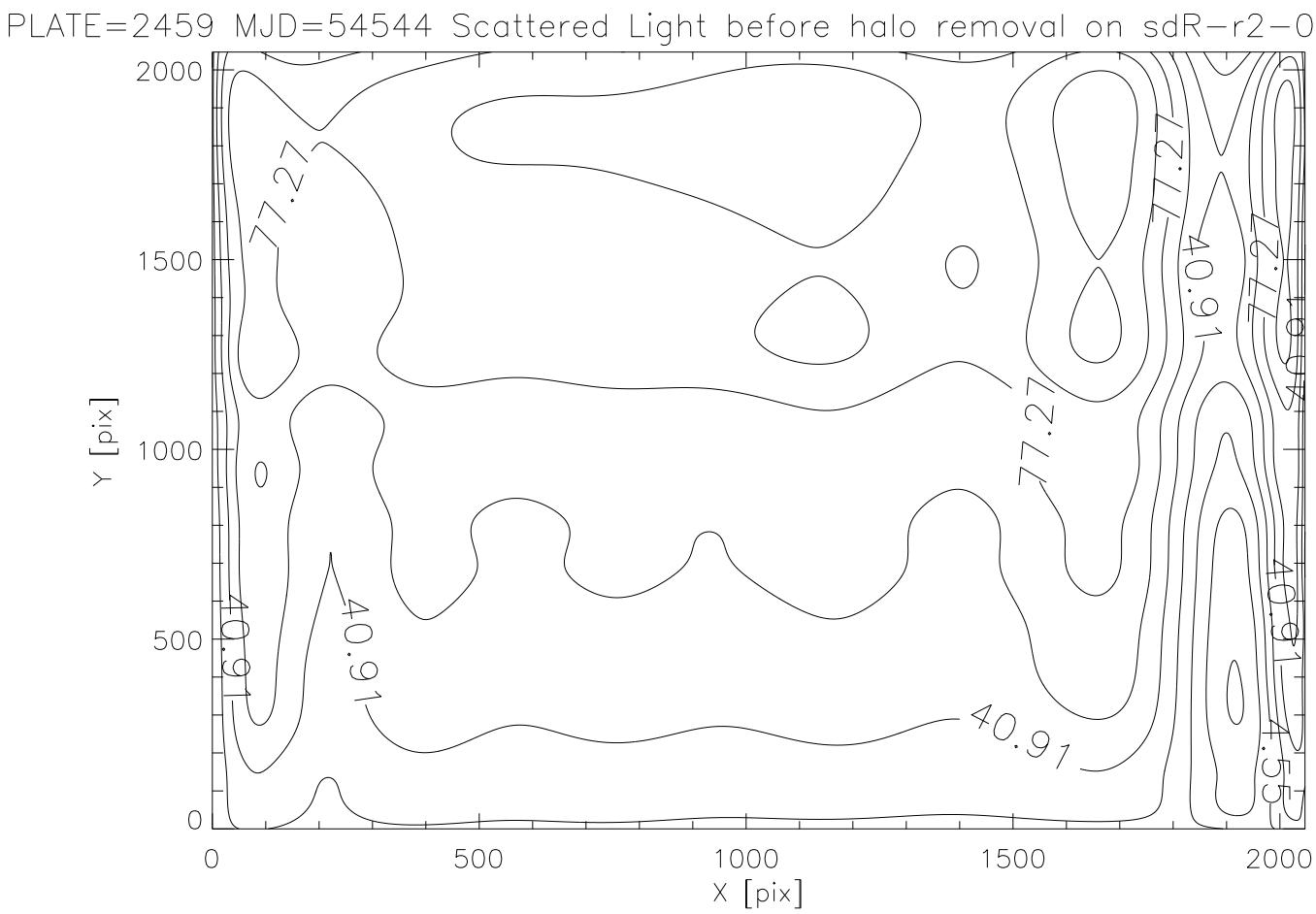

PLATE=2459 MJD=54544 sdR-r2-00051141.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2500
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

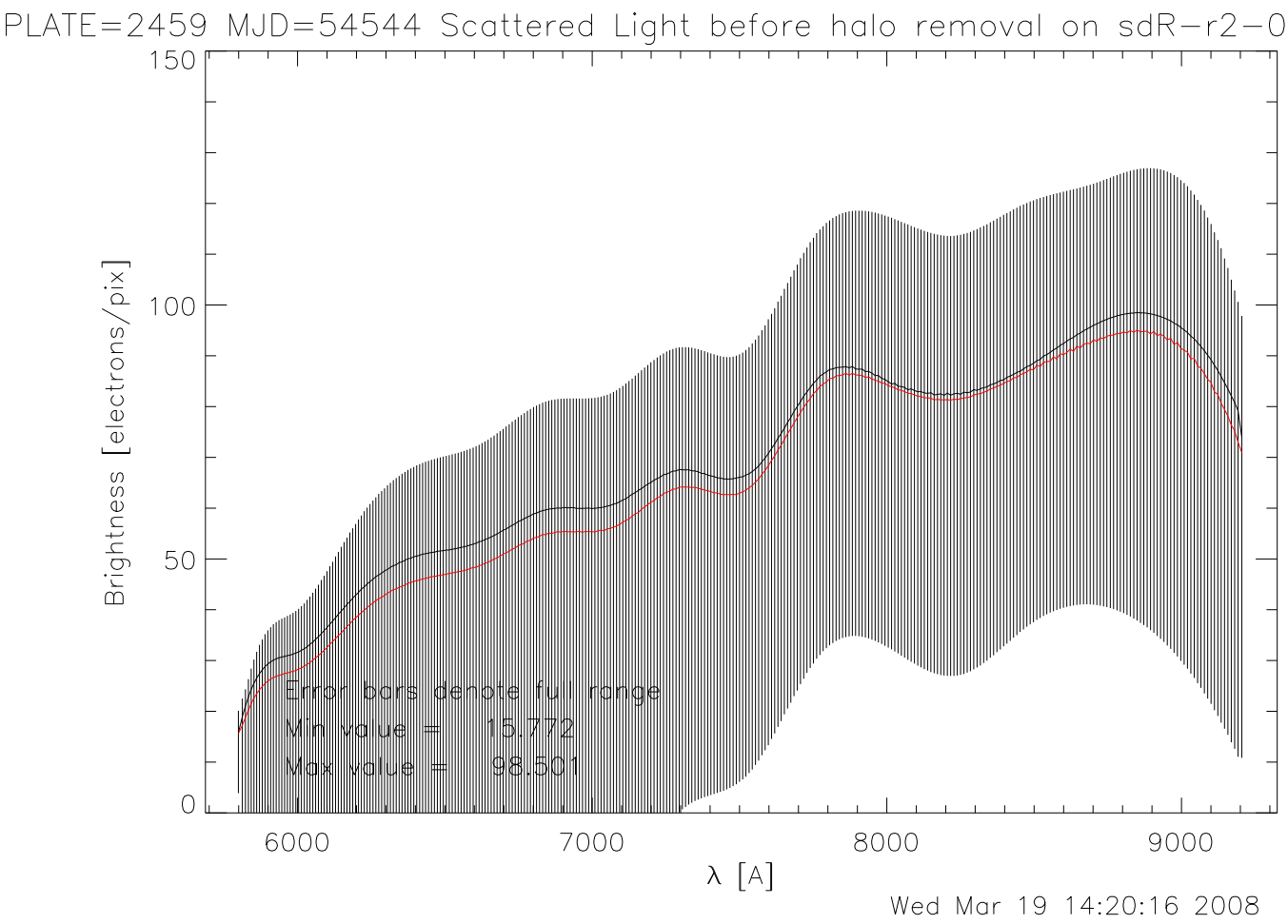

Number of sky fibers = 14
PLATE=2459 MJD=54544 sdR-r2-00051141.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

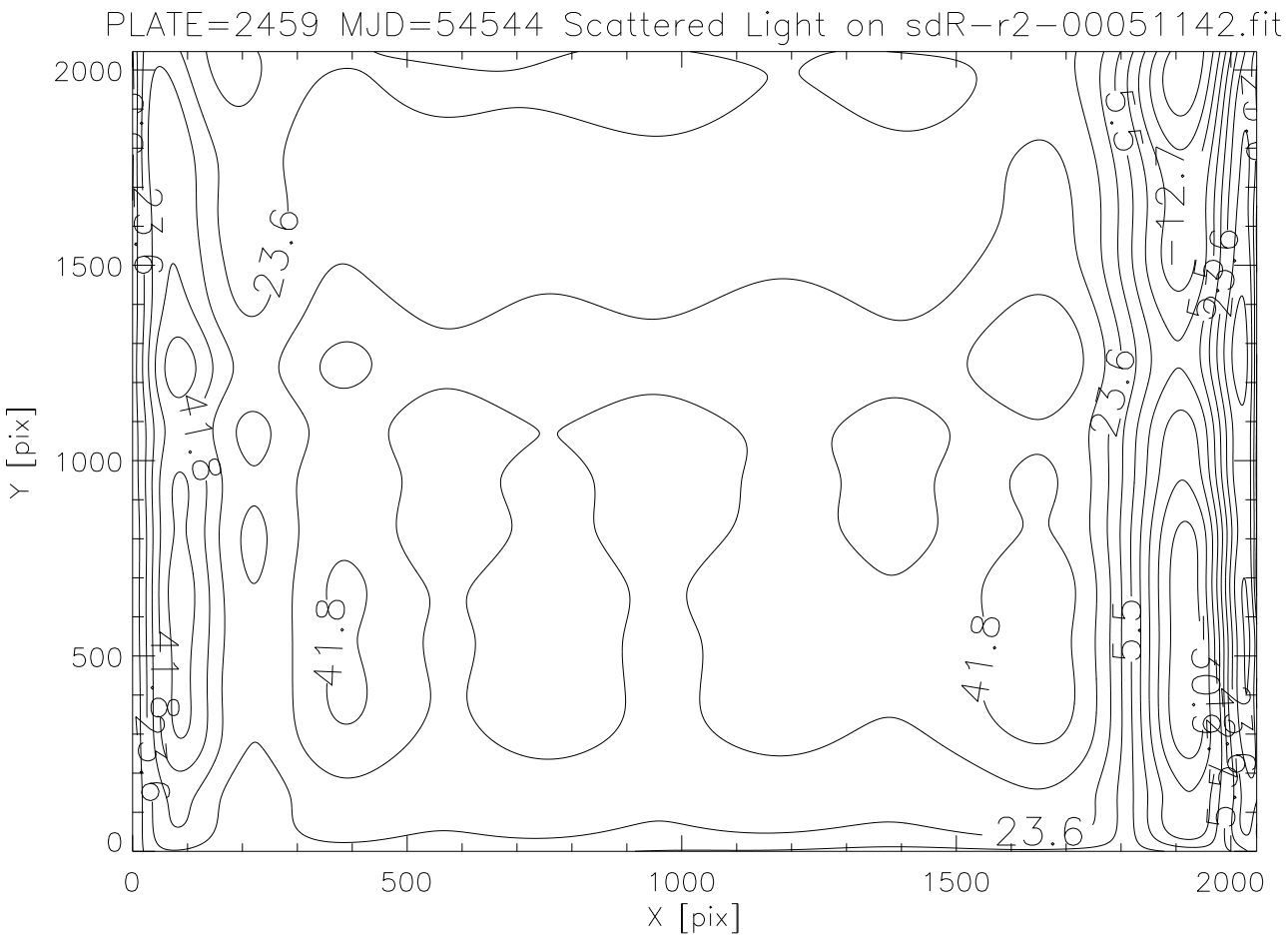

PLATE=2459 MJD=54544 sdR-r2-00051141.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 4.01 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

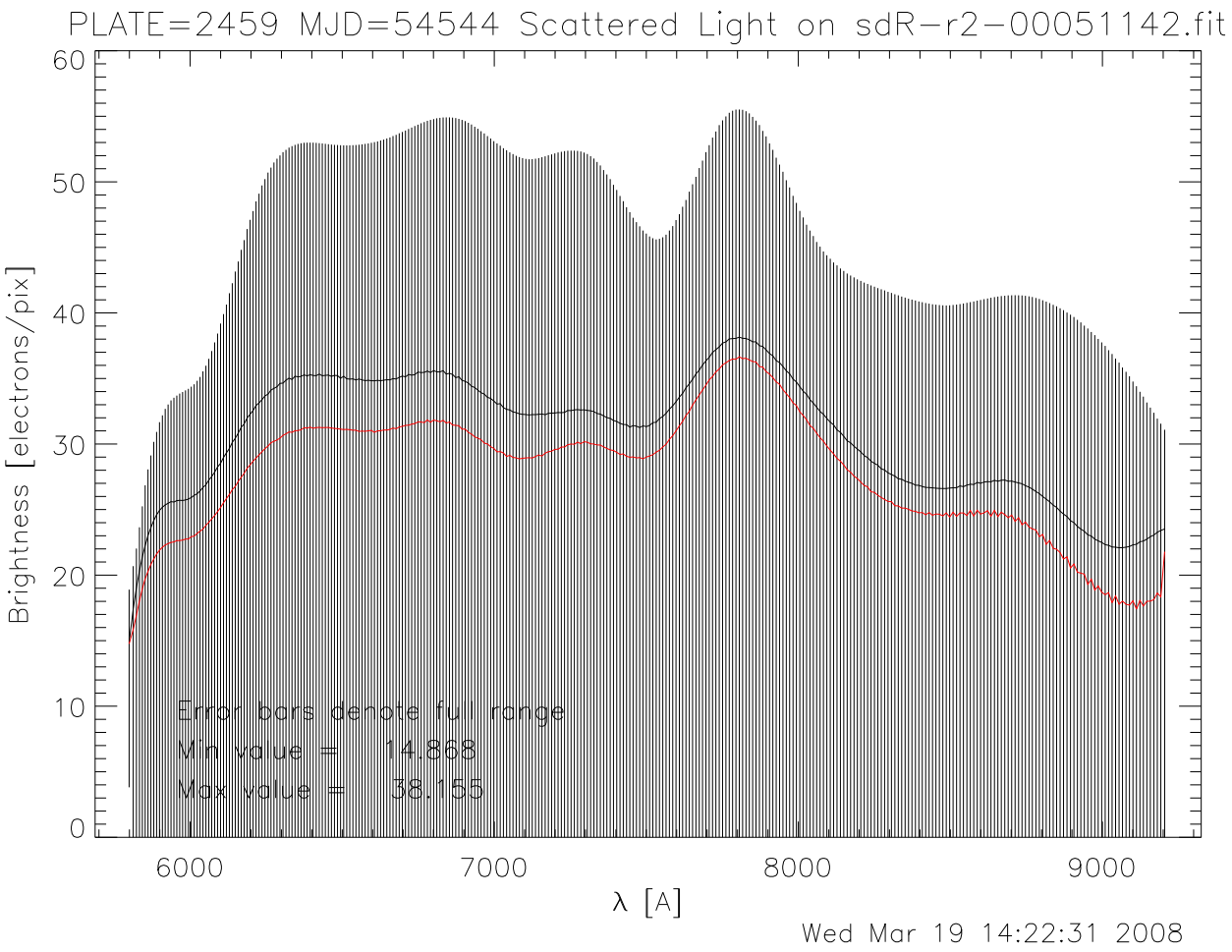

PLATE=2459 MJD=54544 sdR-r2-00051141.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.93 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

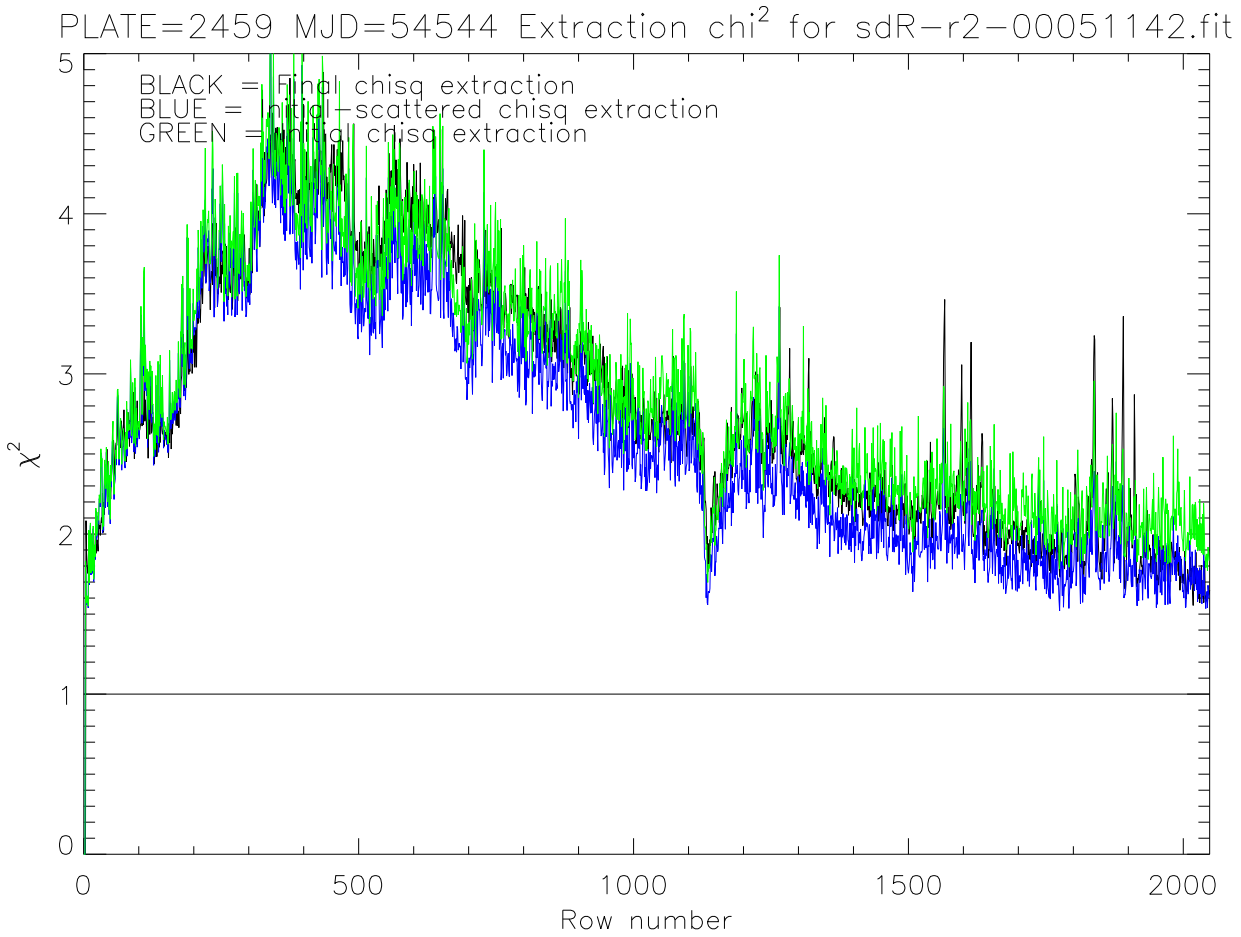

PLATE=2459 MJD=54544 Fiber−Flats for sdR−r2−00051139.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.732
Max value = 1.179
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 19 14:19:19 2008

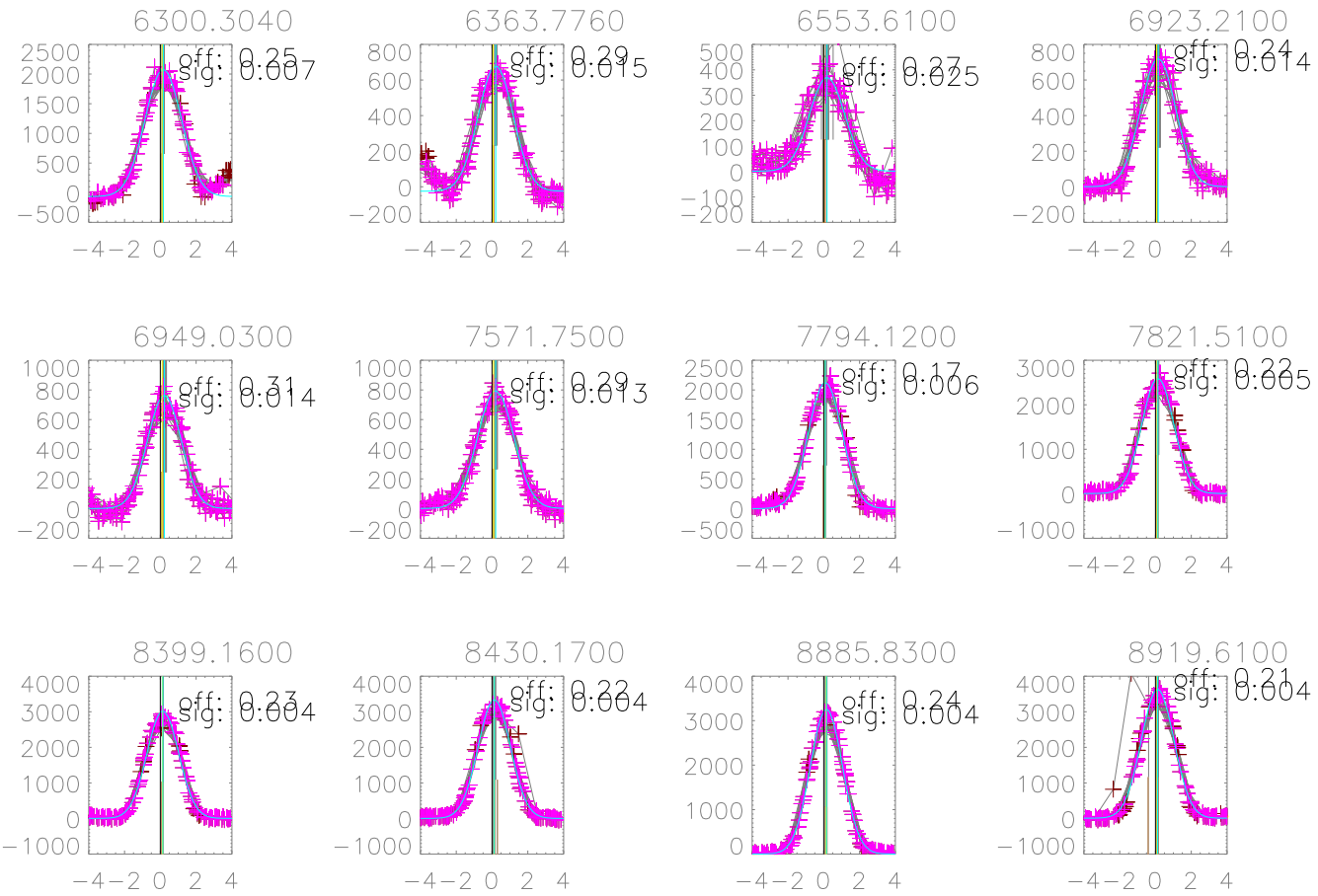

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-r2-00051142.fi
Y [pix]
X [pix]
0
500
1000
1500
2000
77.27
40.91
0

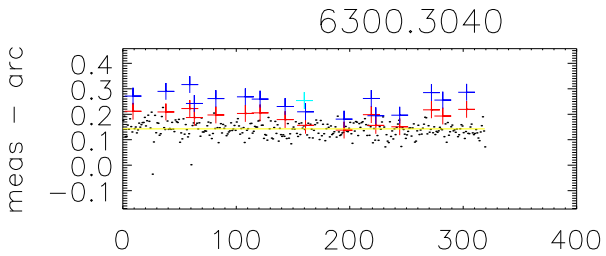

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-r2-00051142.fi
150
100
50
0
Brightness [electrons/pix]
Error bars denote full range
Min value = 15.772
Max value = 98.501
6000
7000
8000
9000
λ [A]
Wed Mar 19 14:20:16 2008

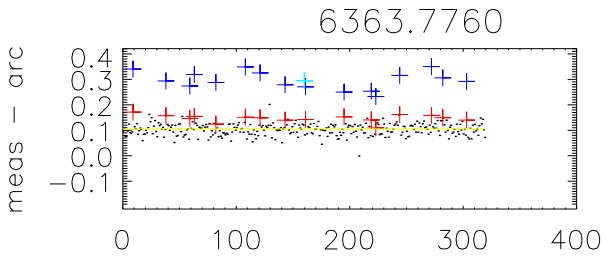

PLATE=2459 MJD=54544 Scattered Light on sdR-r2-00051142.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
23.6
41.8
55.5
-12.7

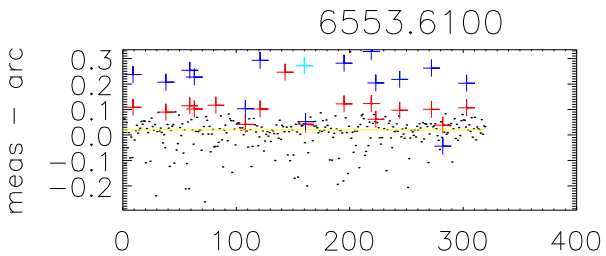

PLATE=2459 MJD=54544 Scattered Light on sdR-r2-00051142.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 14.868
Max value = 38.155
Wed Mar 19 14:22:31 2008

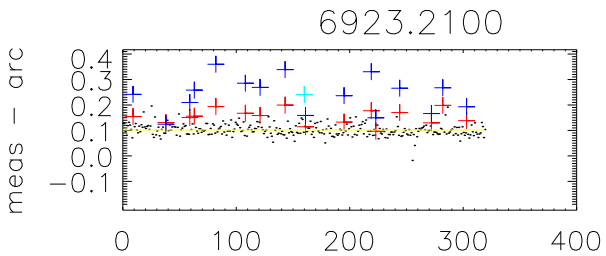

PLATE=2459 MJD=54544 Extraction chi^2 for sdR-r2-00051142.fit
BLACK = final chisq extraction
BLUE = initial-scattered chisq extraction
GREEN = initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
0
500
1000
1500
2000

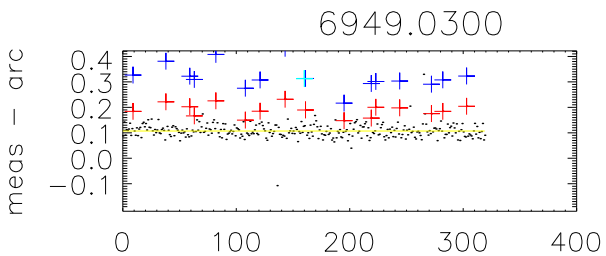

6300.3040
off: 0.25
sig: 0.007
6363.7760
off: 0.29
sig: 0.015
6553.6100
off: 0.27
sig: 0.025
6923.2100
off: 0.24
sig: 0.014
6949.0300
off: 0.31
sig: 0.014
7571.7500
off: 0.29
sig: 0.013
7794.1200
off: 0.17
sig: 0.006
7821.5100
off: 0.22
sig: 0.005
8399.1600
off: 0.23
sig: 0.004
8430.1700
off: 0.22
sig: 0.004
8885.8300
off: 0.24
sig: 0.004
8919.6100
off: 0.21
sig: 0.004

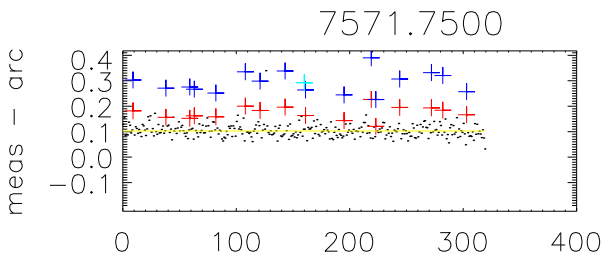

6300.3040
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

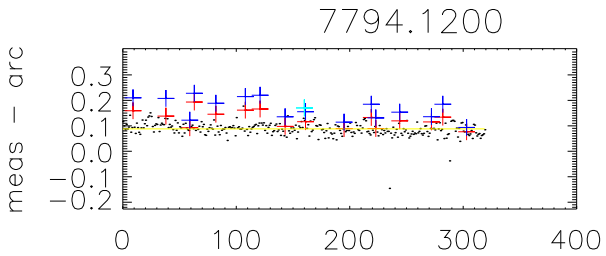

6363.7760
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

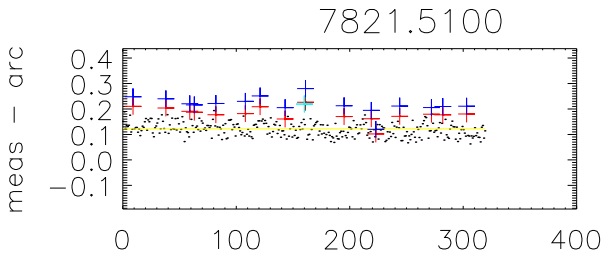

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

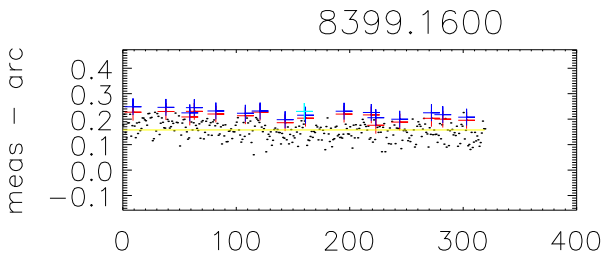

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

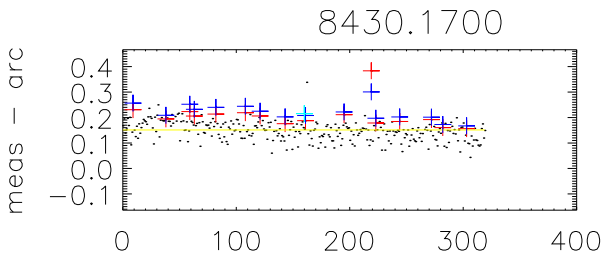

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

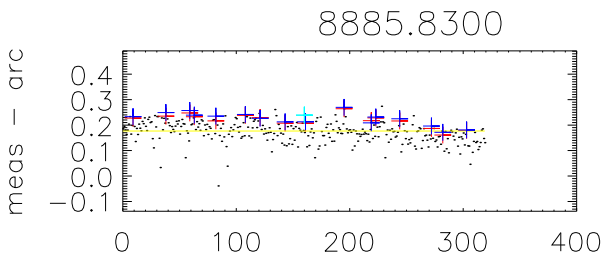

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

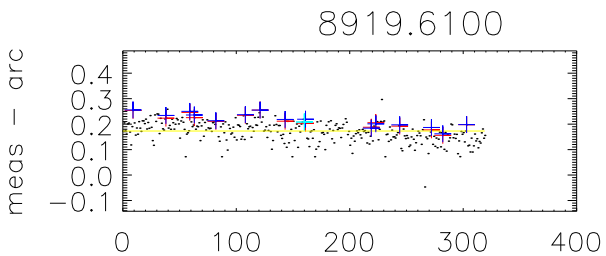

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

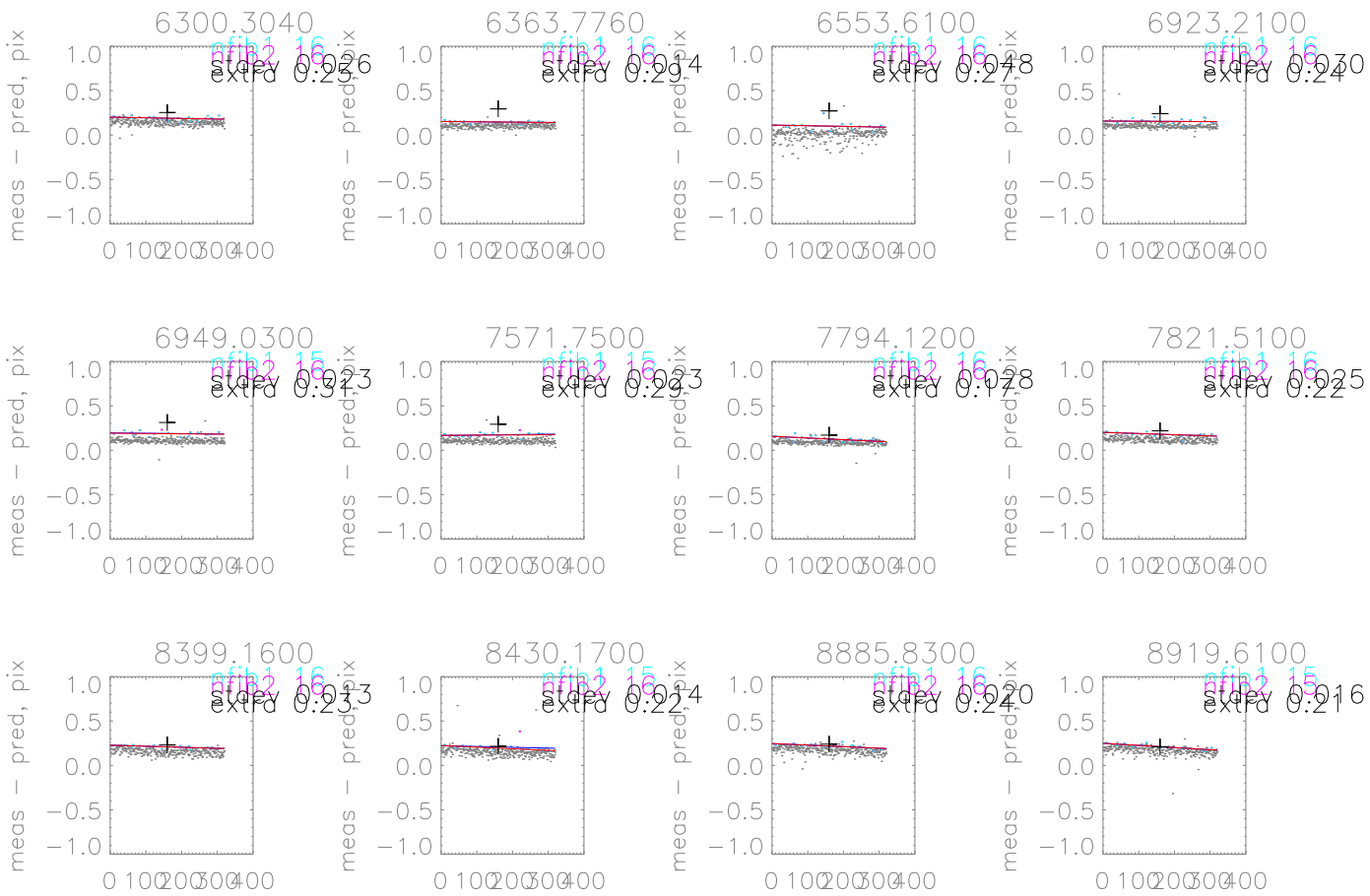

7821.5100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

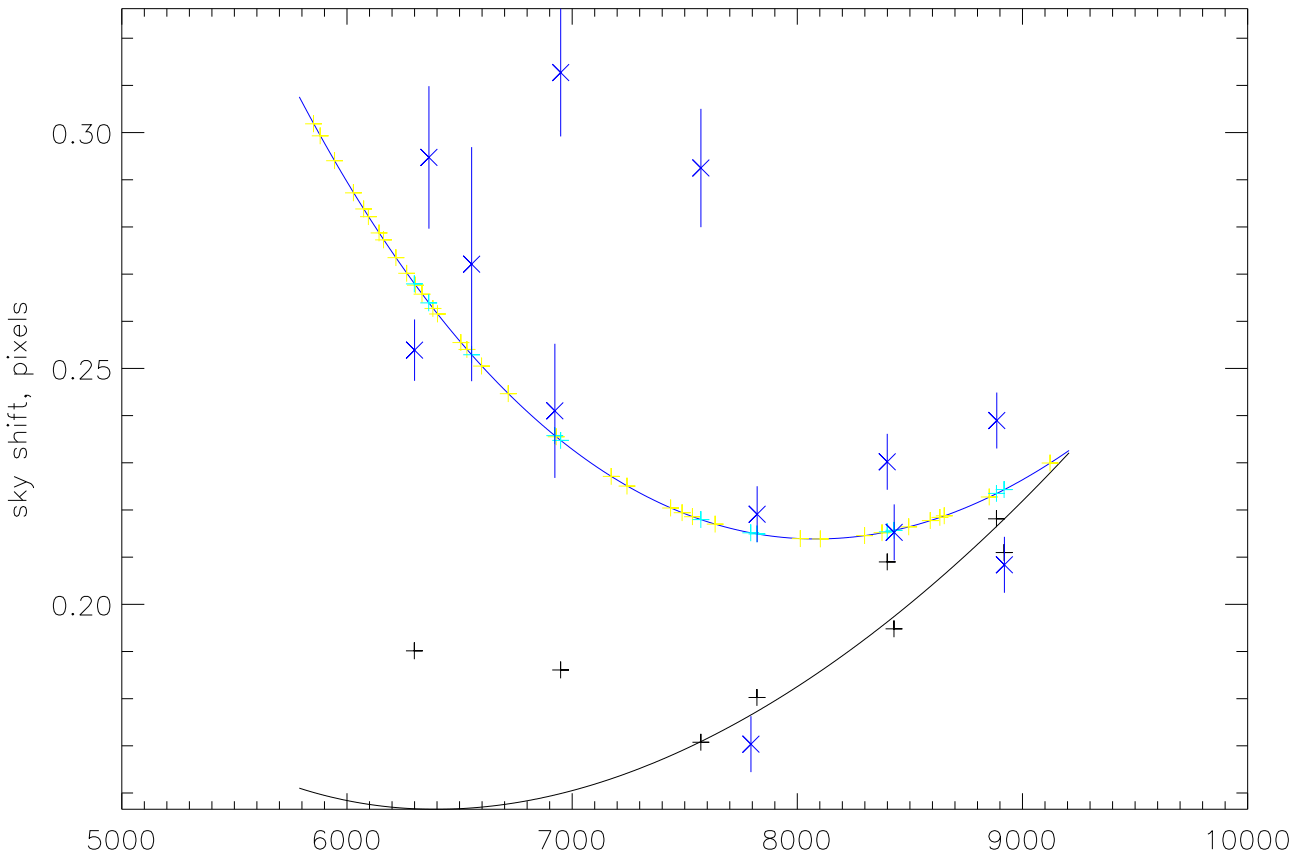

8399.1600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

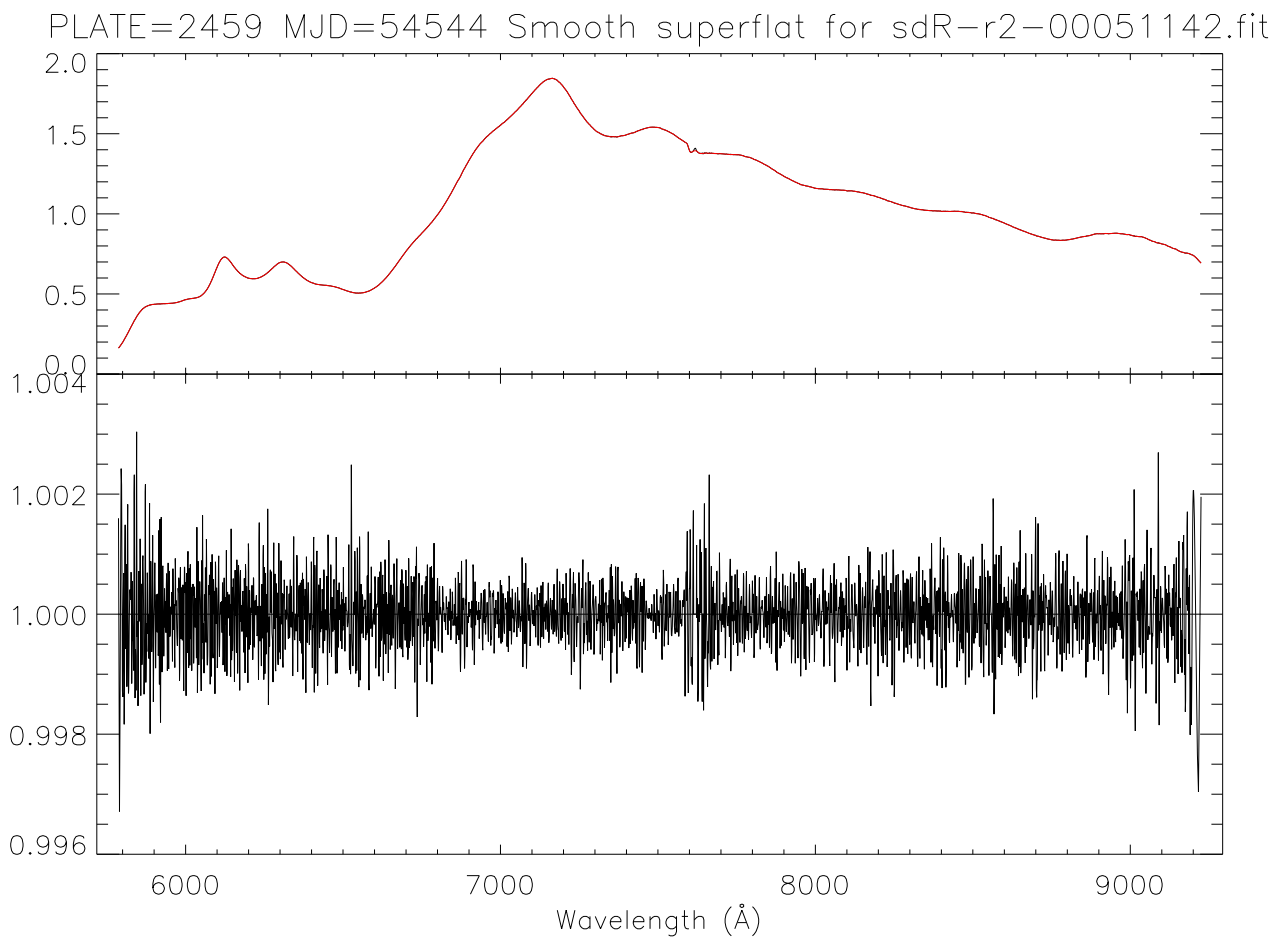

8885.8300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

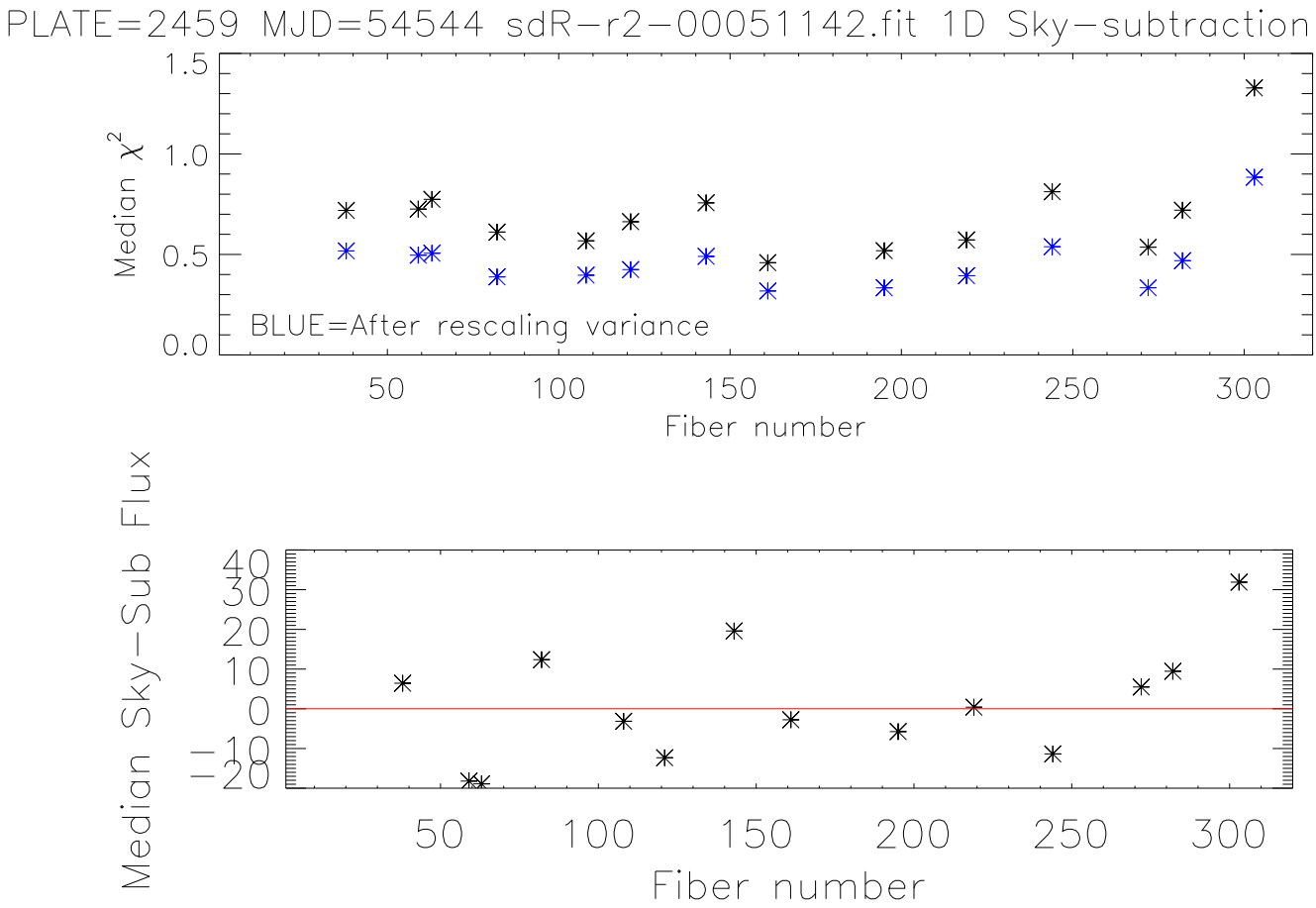

8919.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

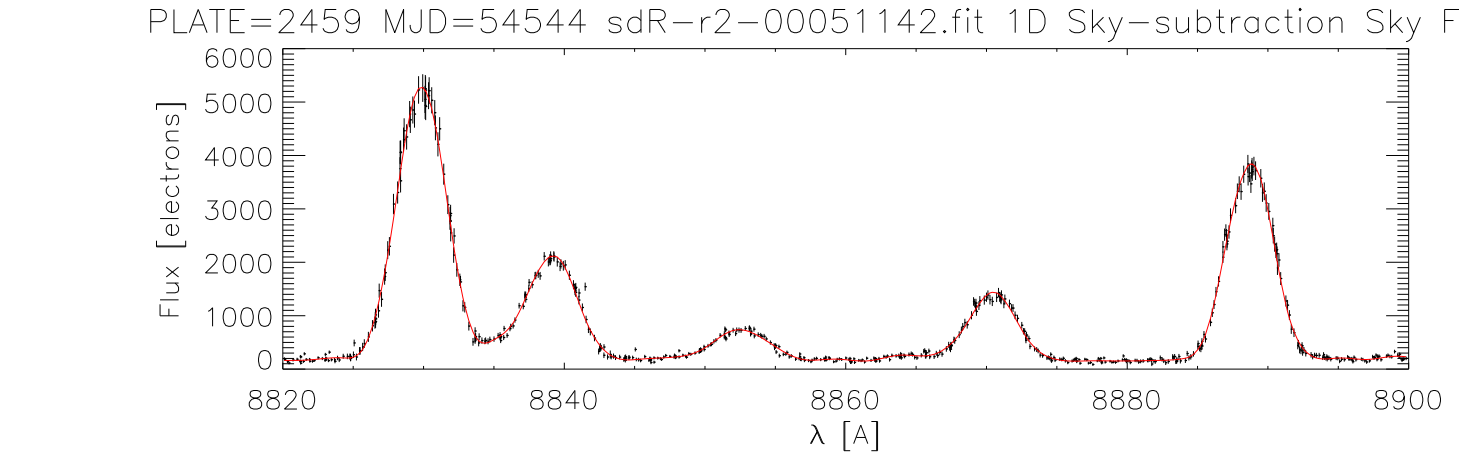

6300.3040
stdev 0.026
extra 0.25
6363.7760
stdev 0.014
extra 0.29
6553.6100
stdev 0.048
extra 0.27
6923.2100
stdev 0.030
extra 0.24
6949.0300
stdev 0.023
extra 0.31
7571.7500
stdev 0.023
extra 0.26
7794.1200
stdev 0.028
extra 0.17
7821.5100
stdev 0.025
extra 0.22
8399.1600
stdev 0.013
extra 0.23
8430.1700
stdev 0.014
extra 0.22
8885.8300
stdev 0.020
extra 0.24
8919.6100
stdev 0.016
extra 0.21
meas − pred, pix
mfib2 16
mfib1 15
mfib1 16
mfib2 15

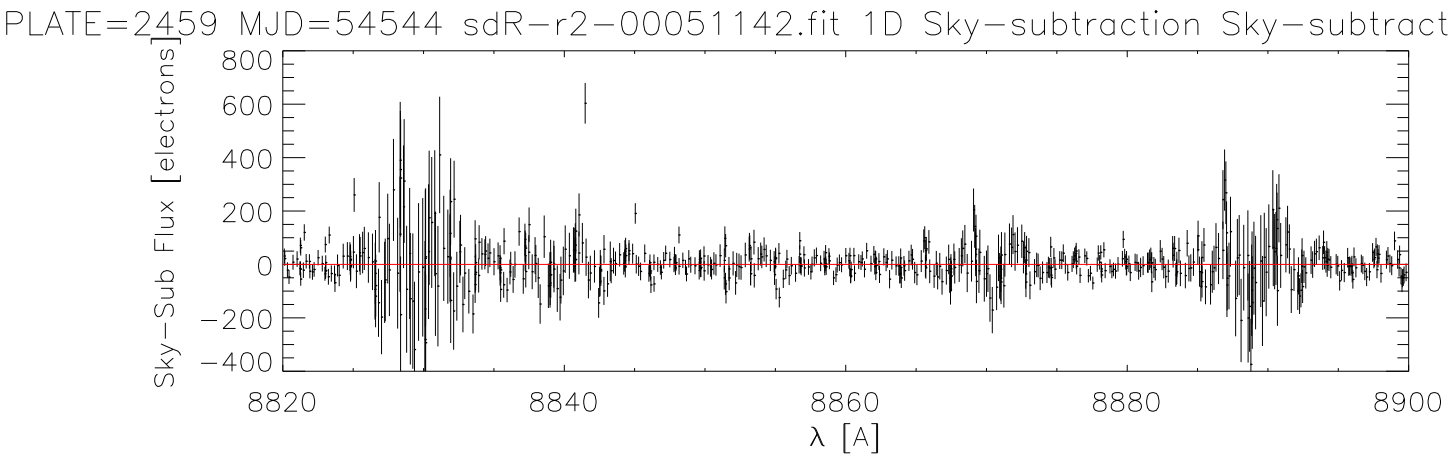

sky shift, pixels
0.30
0.25
0.20
5000
6000
7000
8000
9000
10000

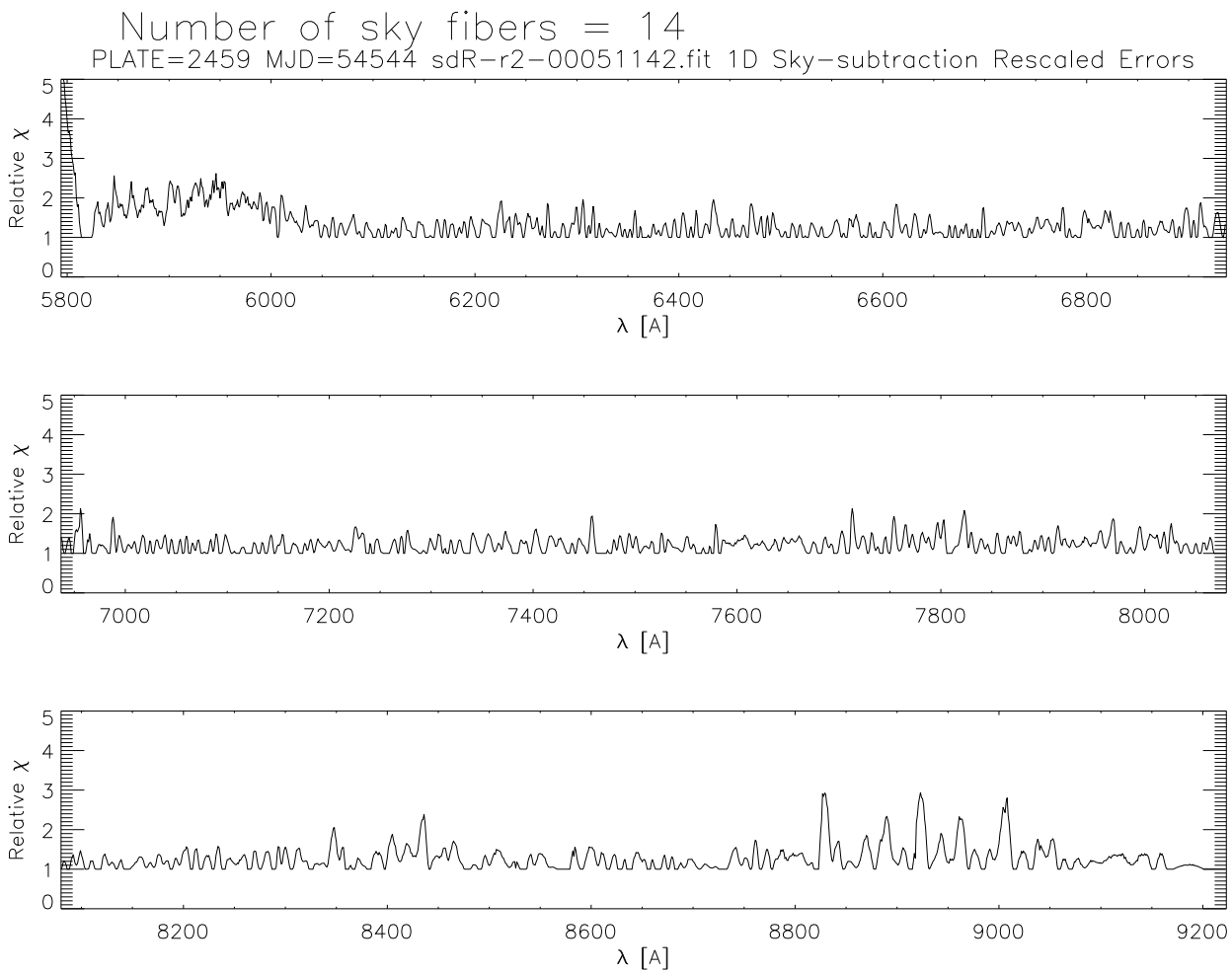
es= 0.0000

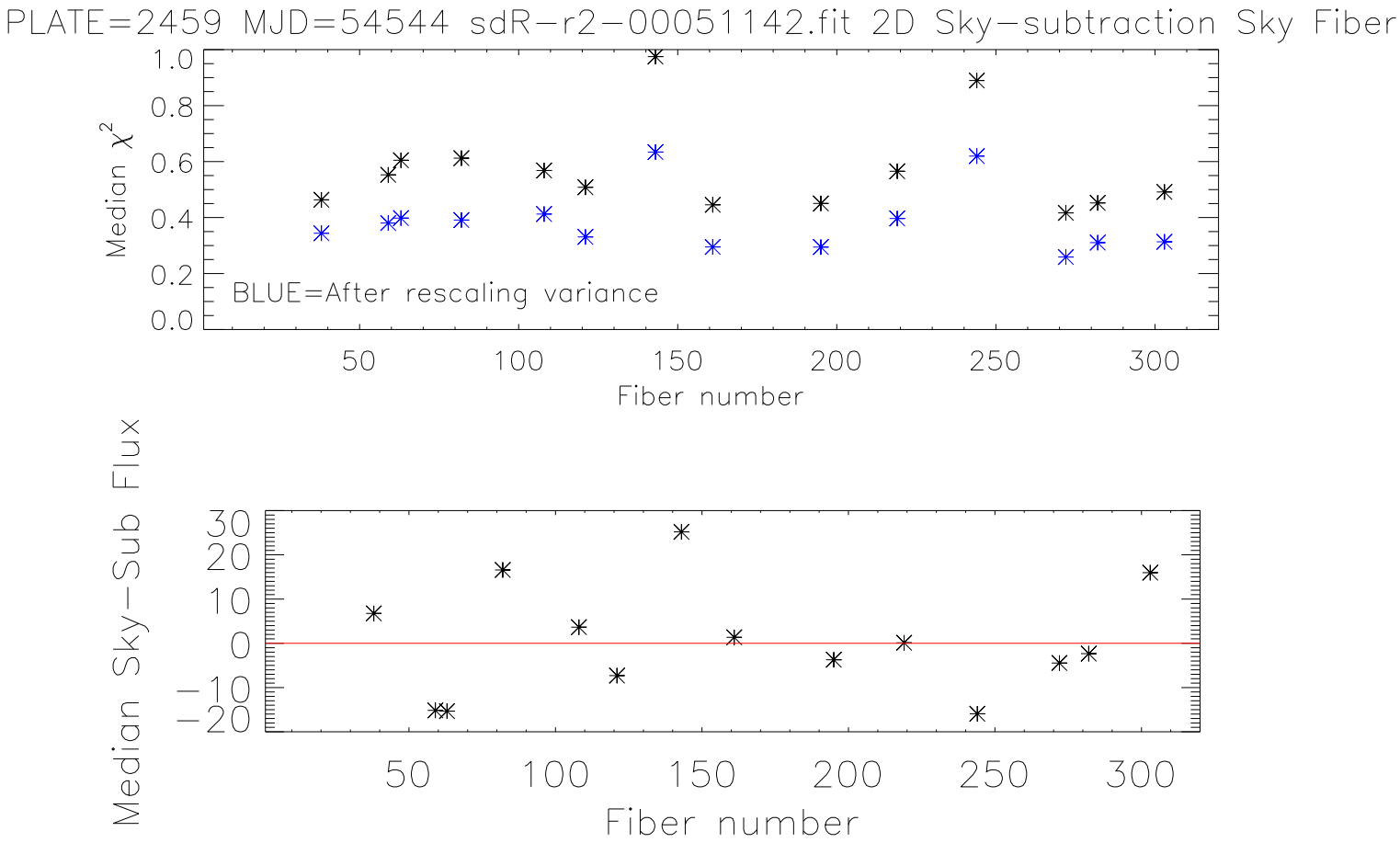

PLATE=2459 MJD=54544 Smooth superflat for sdR-r2-00051142.fit
2.0
1.5
1.0
0.5
0.0
1.004
1.002
1.000
0.998
0.996
6000
7000
8000
9000
Wavelength (Å)

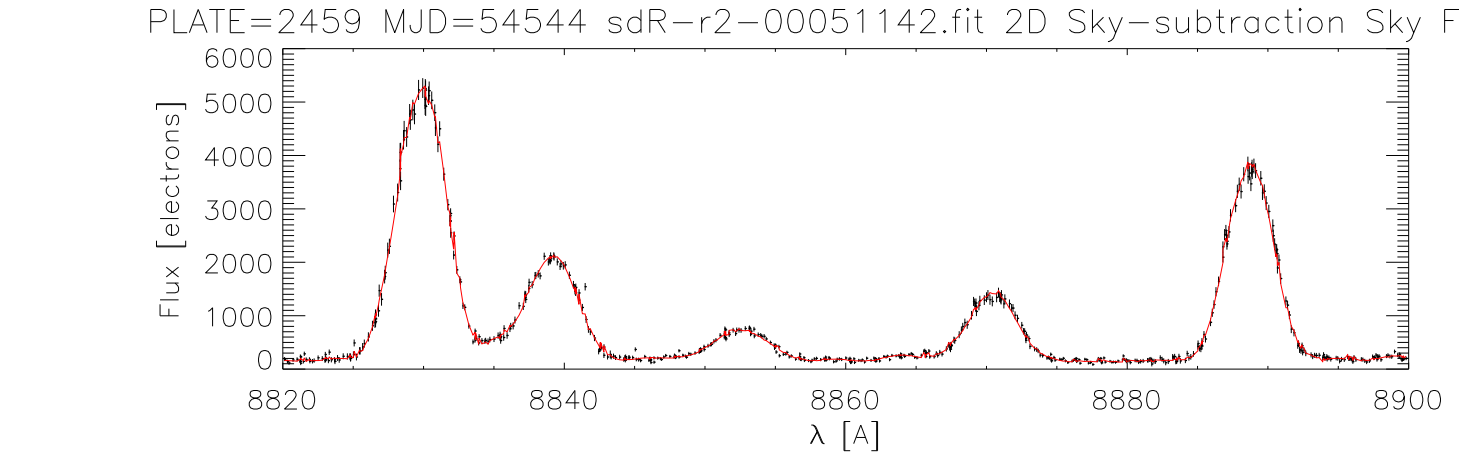

PLATE=2459 MJD=54544 sdR-r2-00051142.fit 1D Sky-subtraction Sky Fibers
Median χ^2
1.5
1.0
0.5
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
40
30
20
10
0
-10
-20
50
100
150
200
250
300
Fiber number

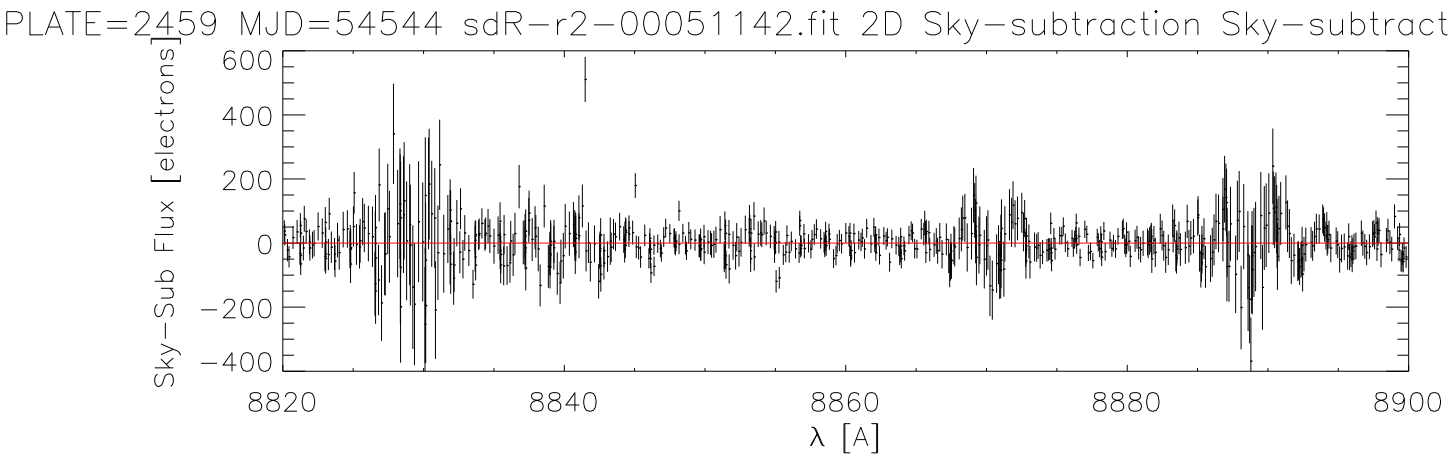

PLATE=2459 MJD=54544 sdR-r2-00051142.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

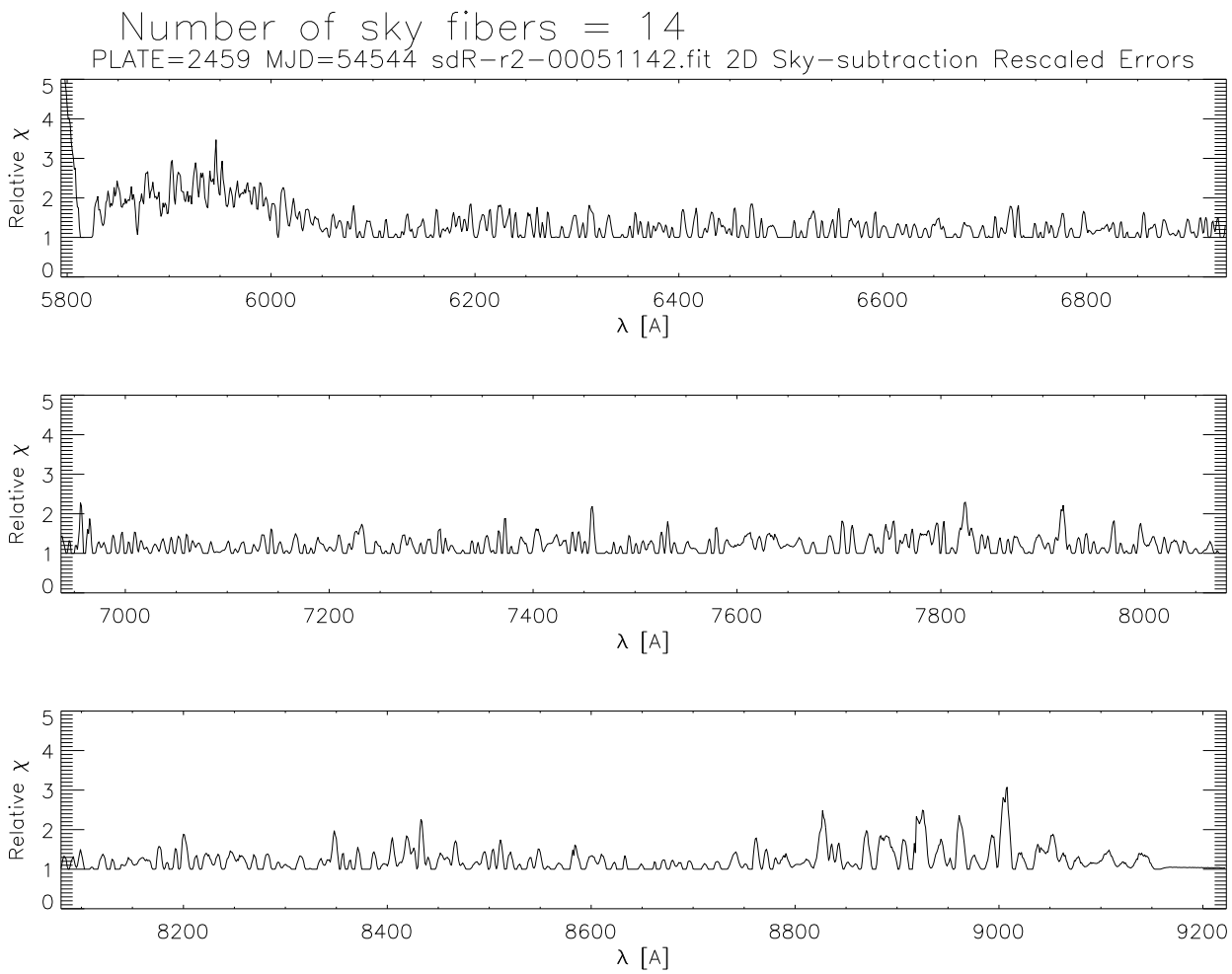

PLATE=2459 MJD=54544 sdR-r2-00051142.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

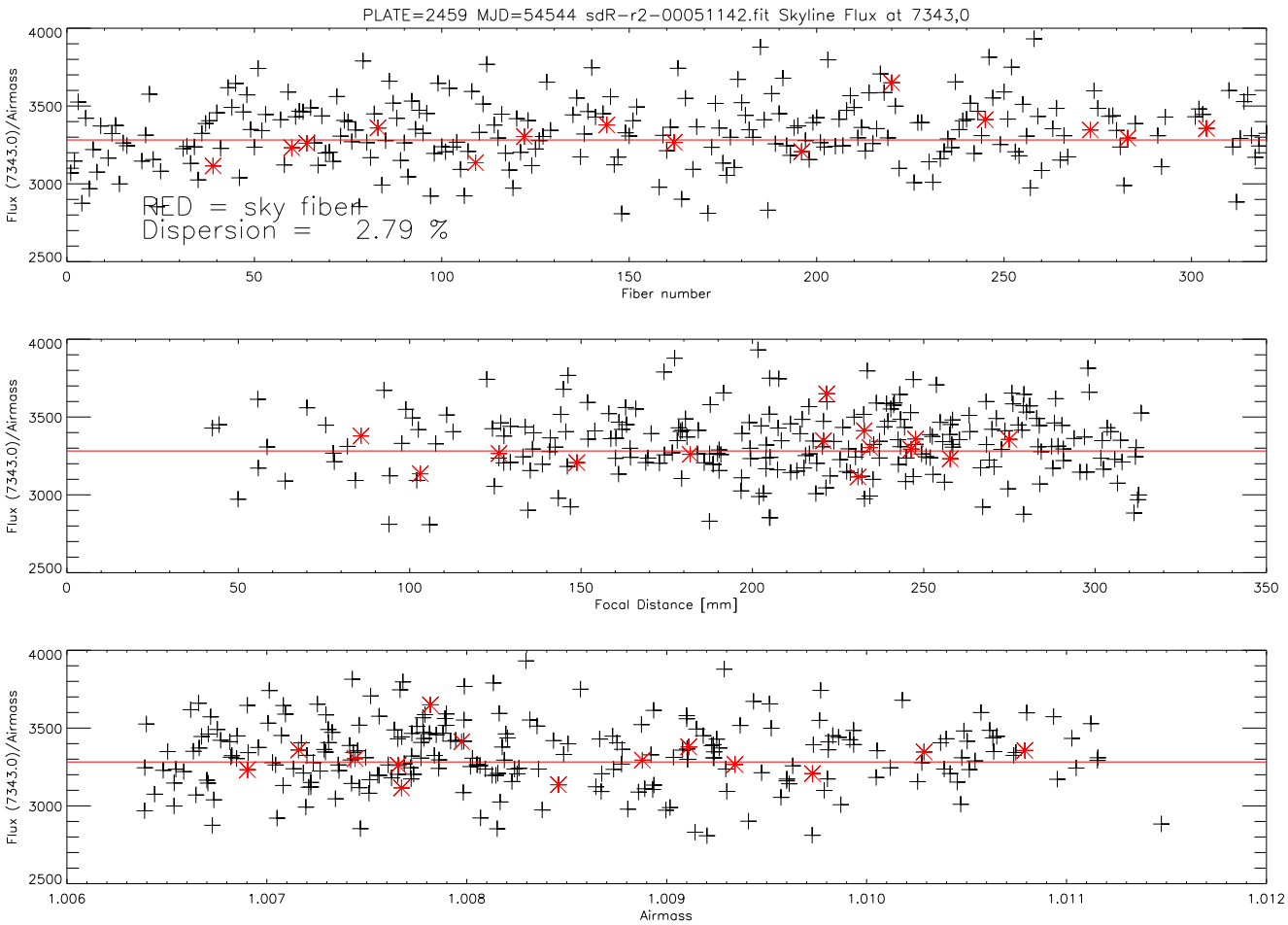

Number of sky fibers = 14
PLATE=2459 MJD=54544 sdR-r2-00051142.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

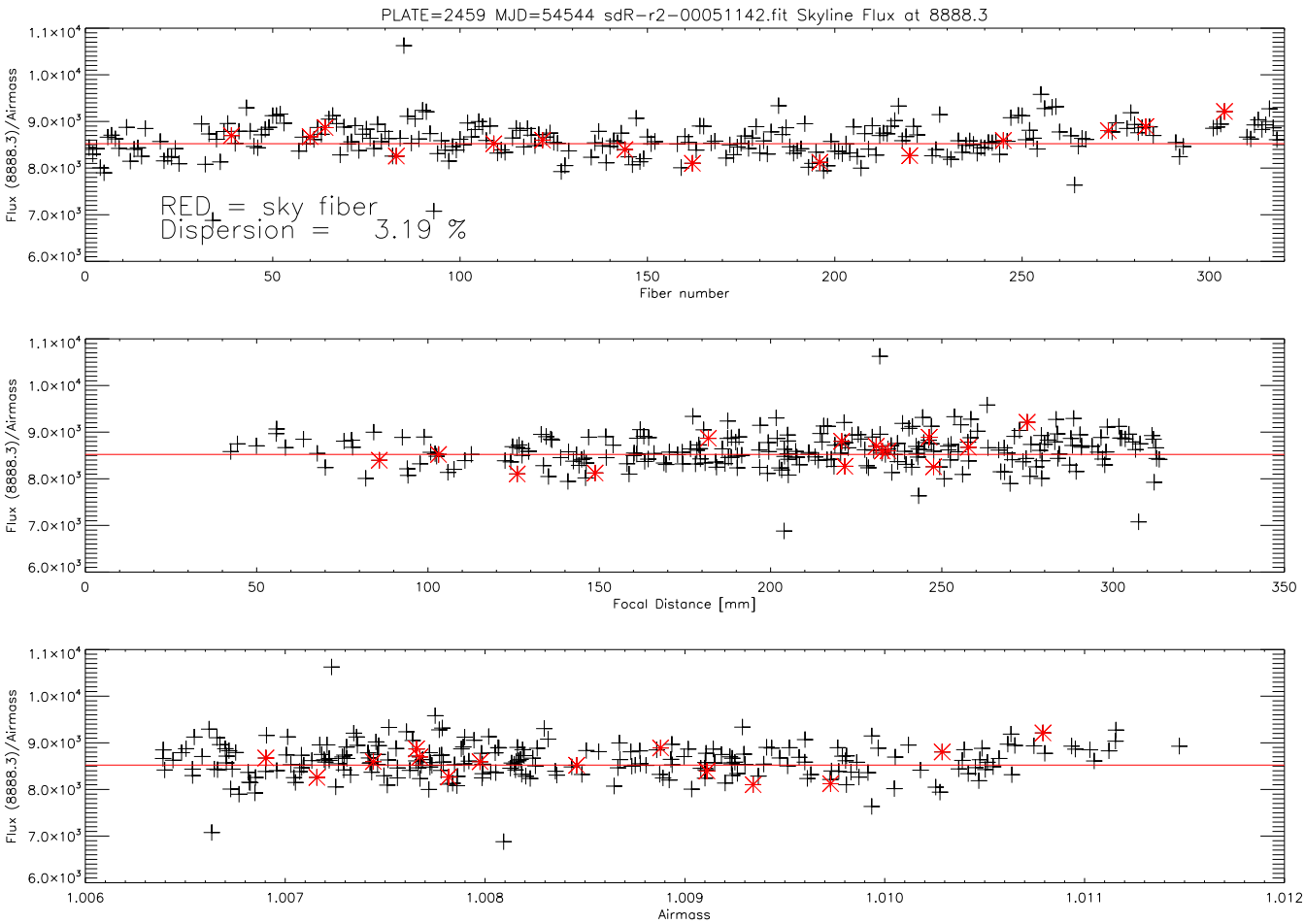

PLATE=2459 MJD=54544 sdR-r2-00051142.fit 2D Sky-subtraction Sky Fibers
Median χ^2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
30
20
10
0
-10
-20
50
100
150
200
250
300
Fiber number

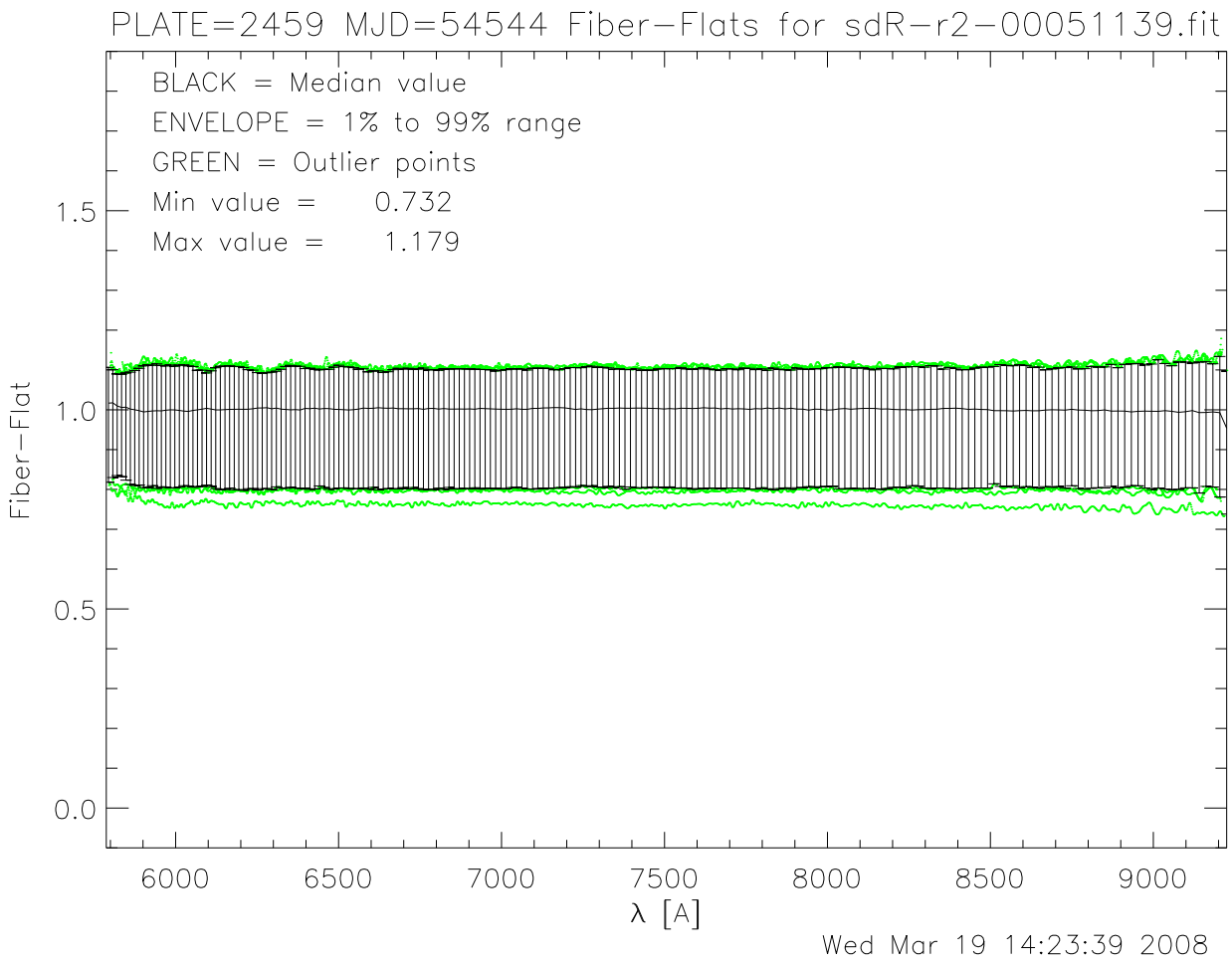

PLATE=2459 MJD=54544 sdR-r2-00051142.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

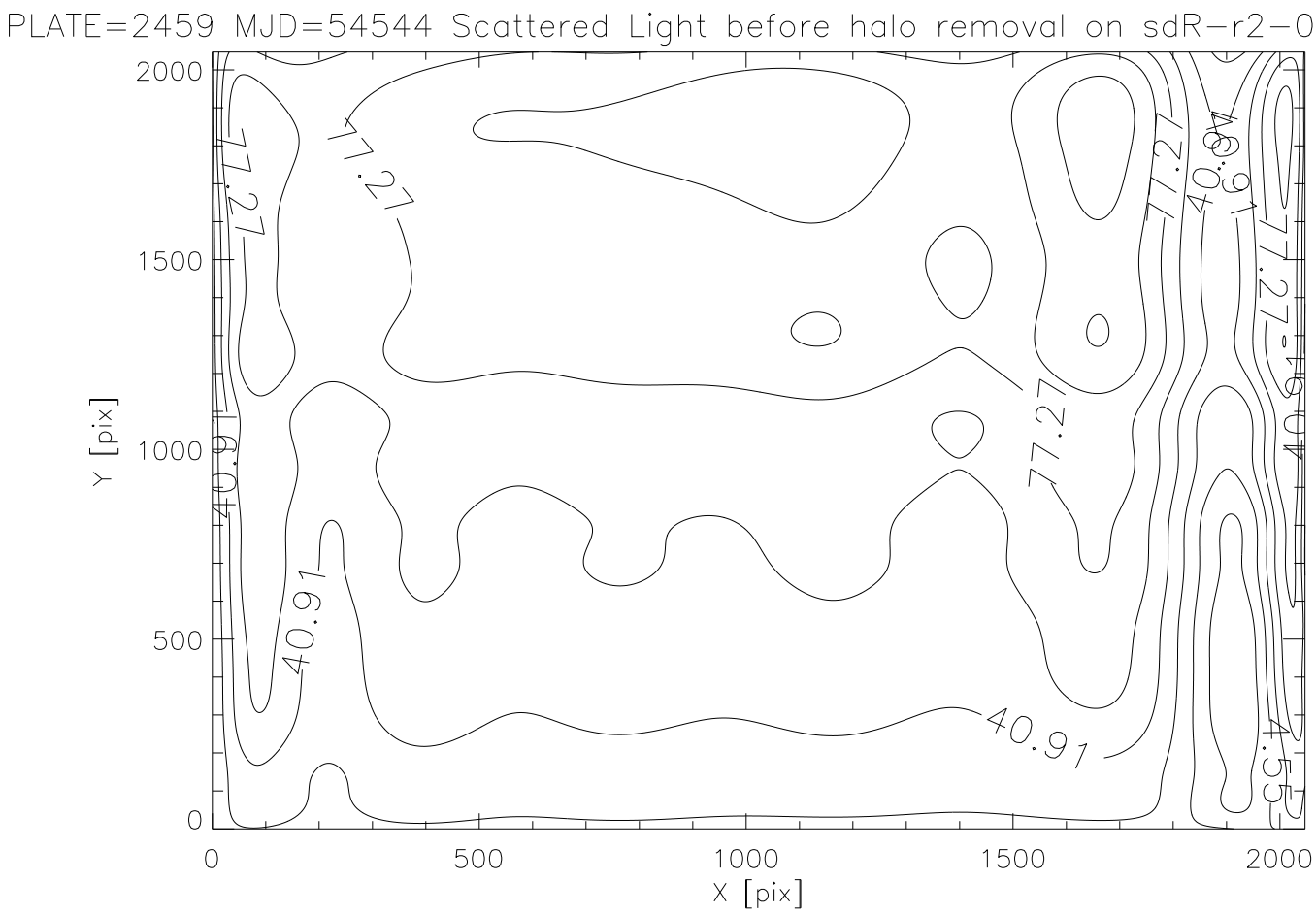

PLATE=2459 MJD=54544 sdR-r2-00051142.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

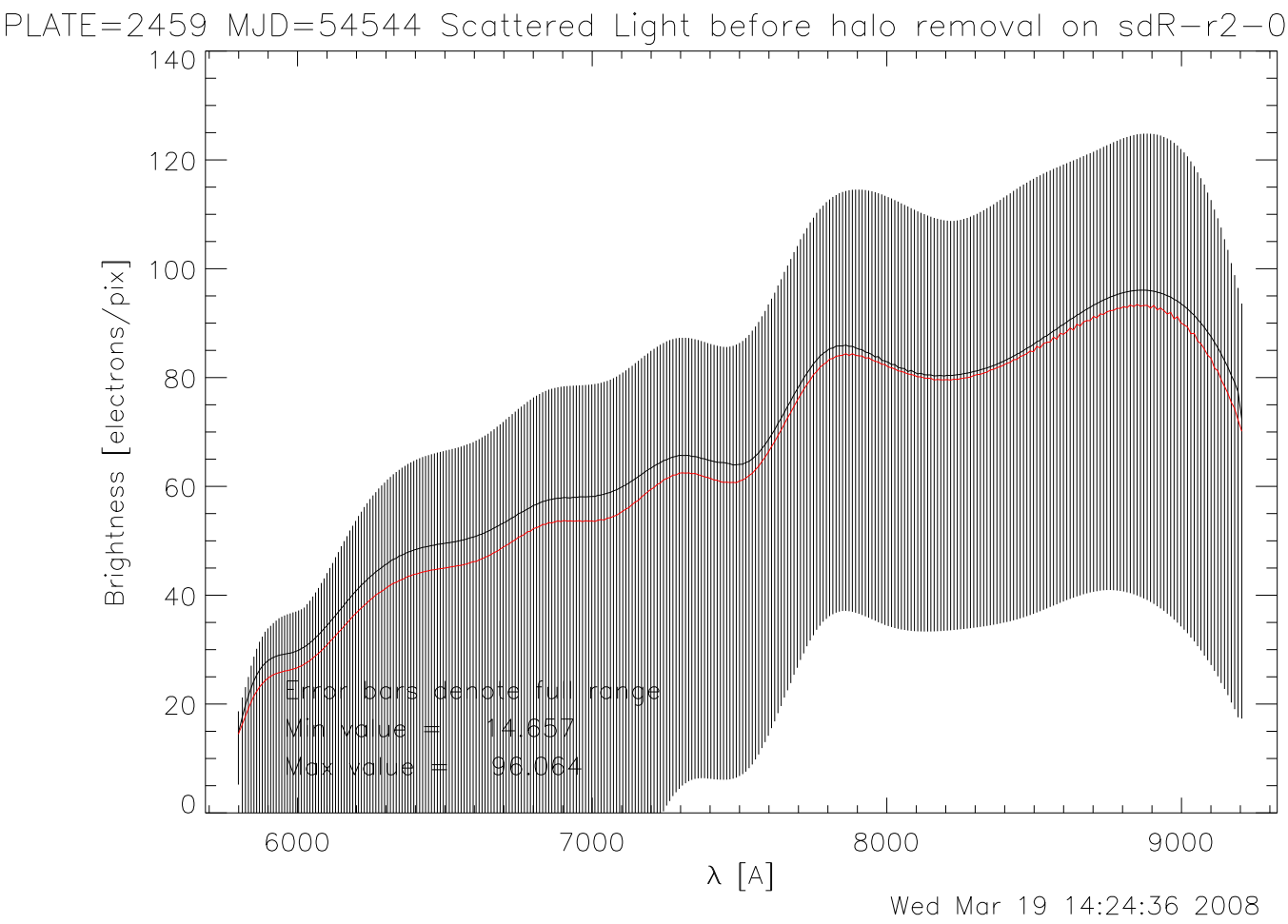

Number of sky fibers = 14
PLATE=2459 MJD=54544 sdR-r2-00051142.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

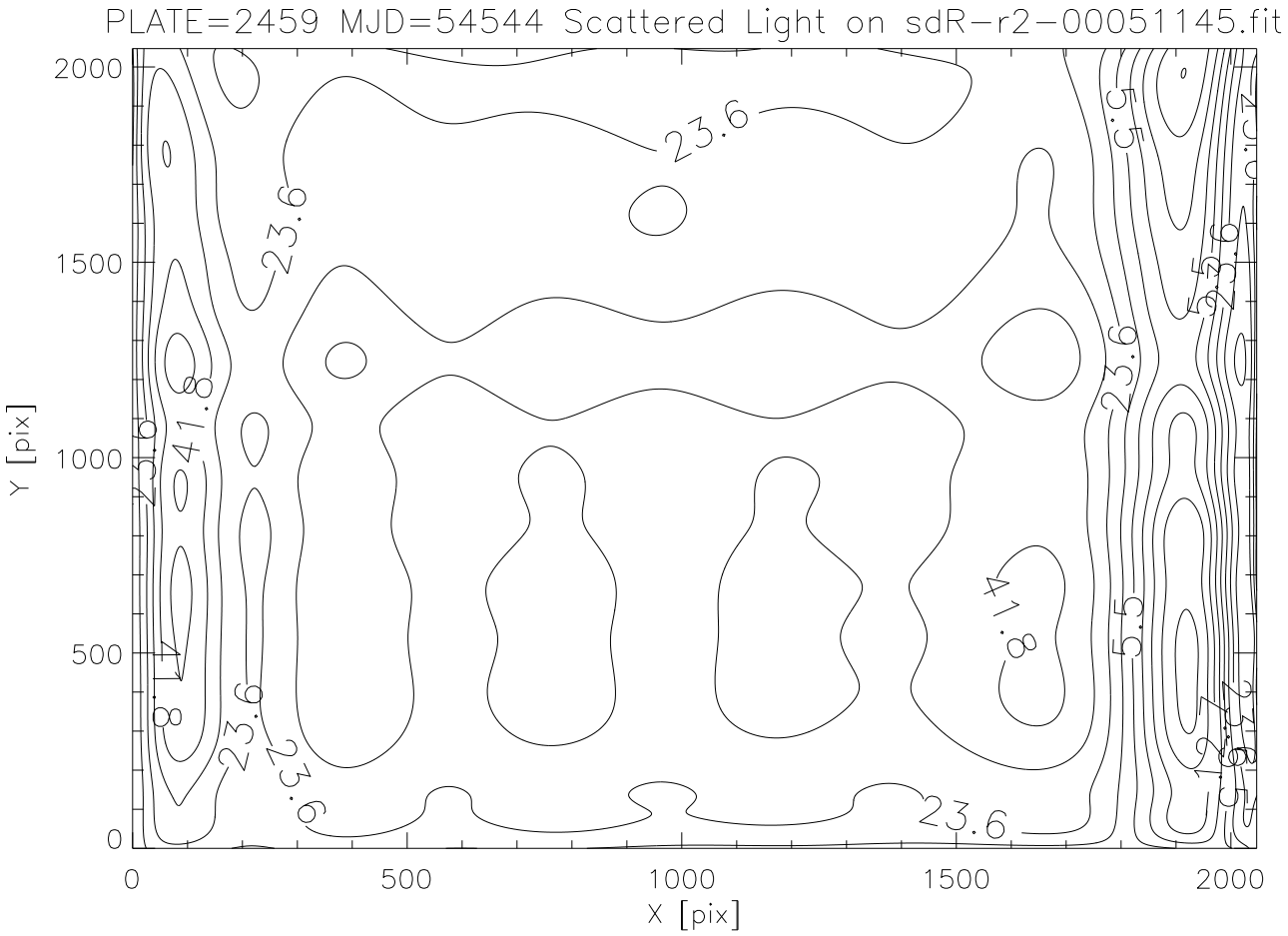

PLATE=2459 MJD=54544 sdR-r2-00051142.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.79 %
Fiber number
Focal Distance [mm]
Airmass

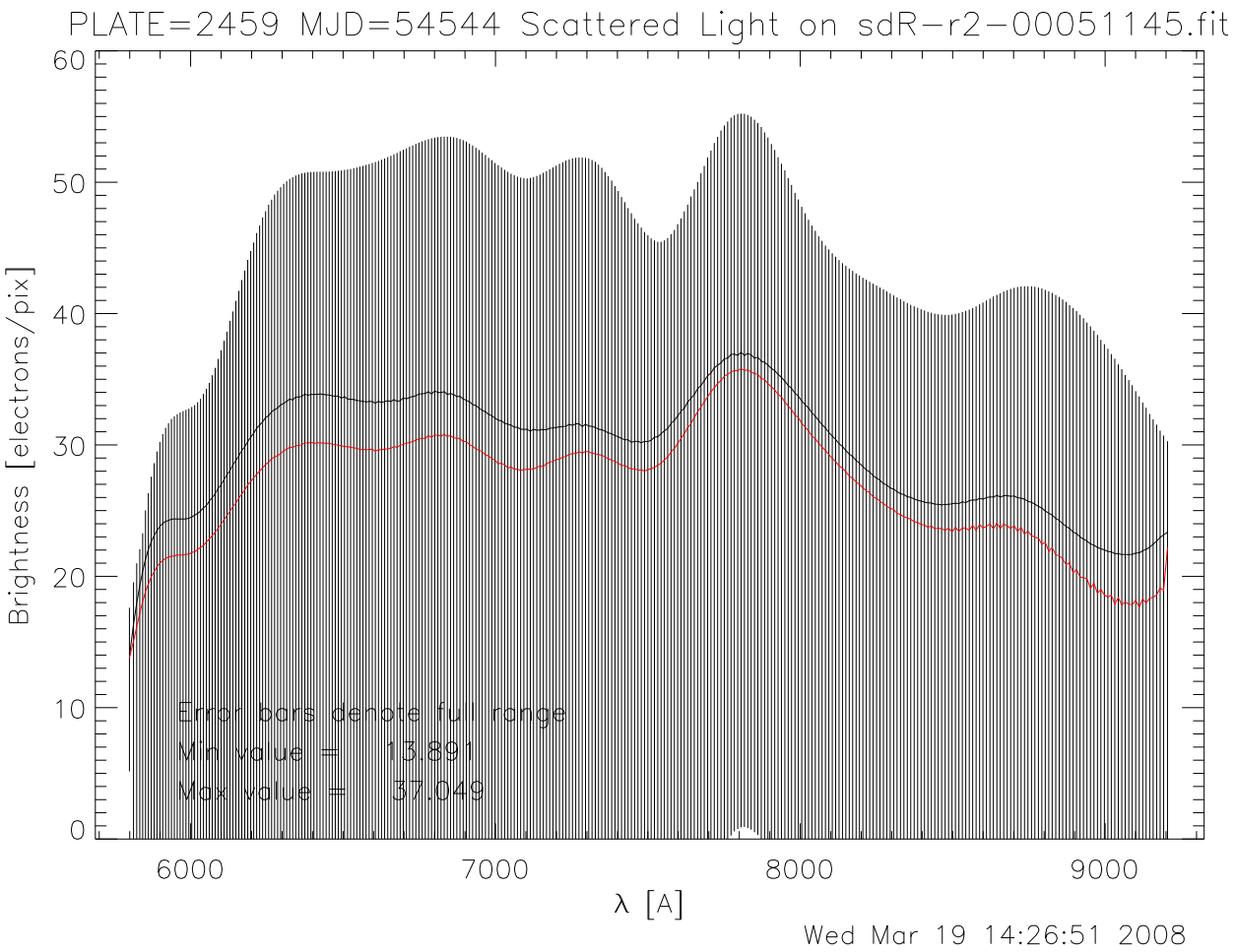

PLATE=2459 MJD=54544 sdR-r2-00051142.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.19 %
Fiber number
Focal Distance [mm]
Airmass

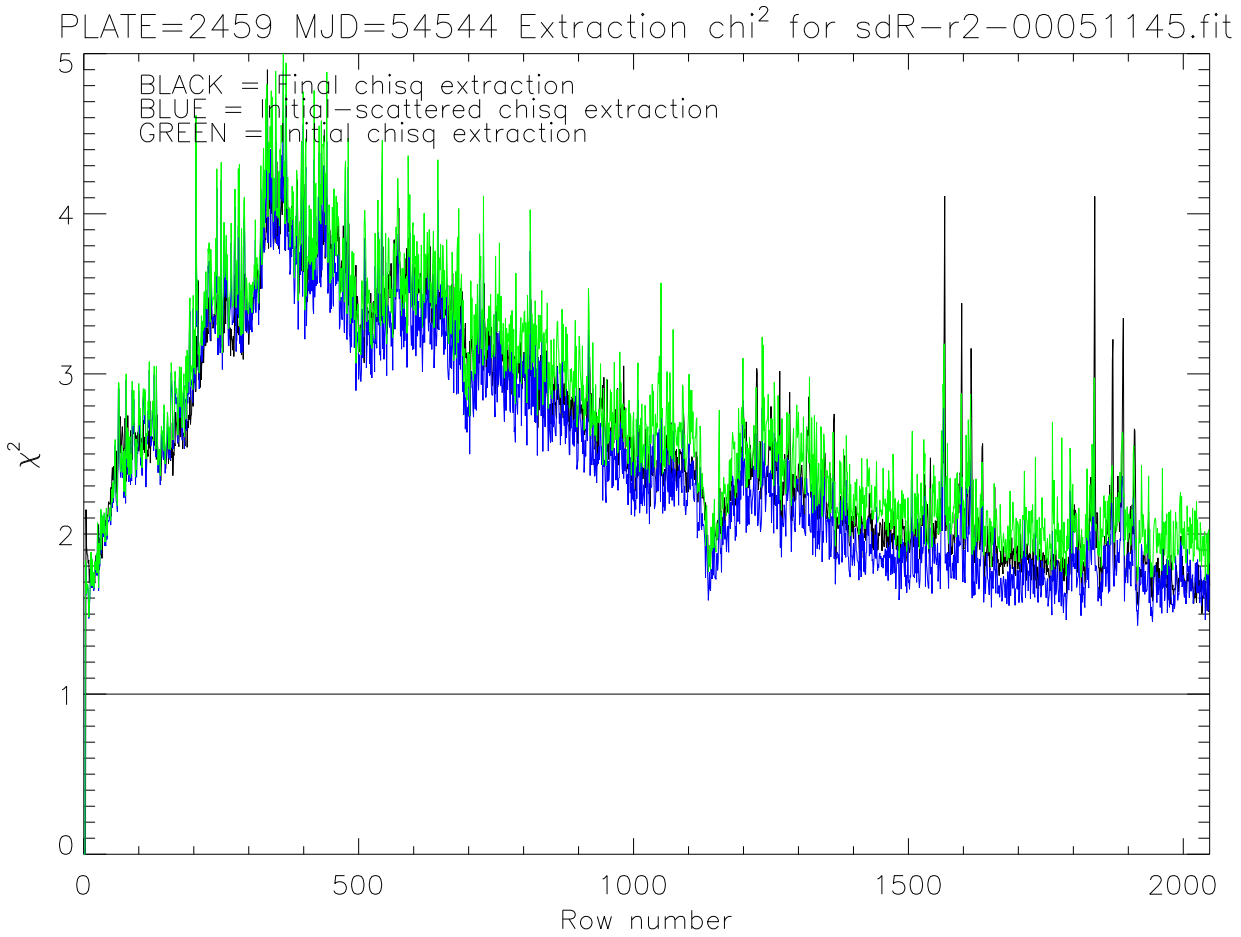

PLATE=2459 MJD=54544 Fiber−Flats for sdR−r2−00051139.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.732
Max value = 1.179
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 19 14:23:39 2008

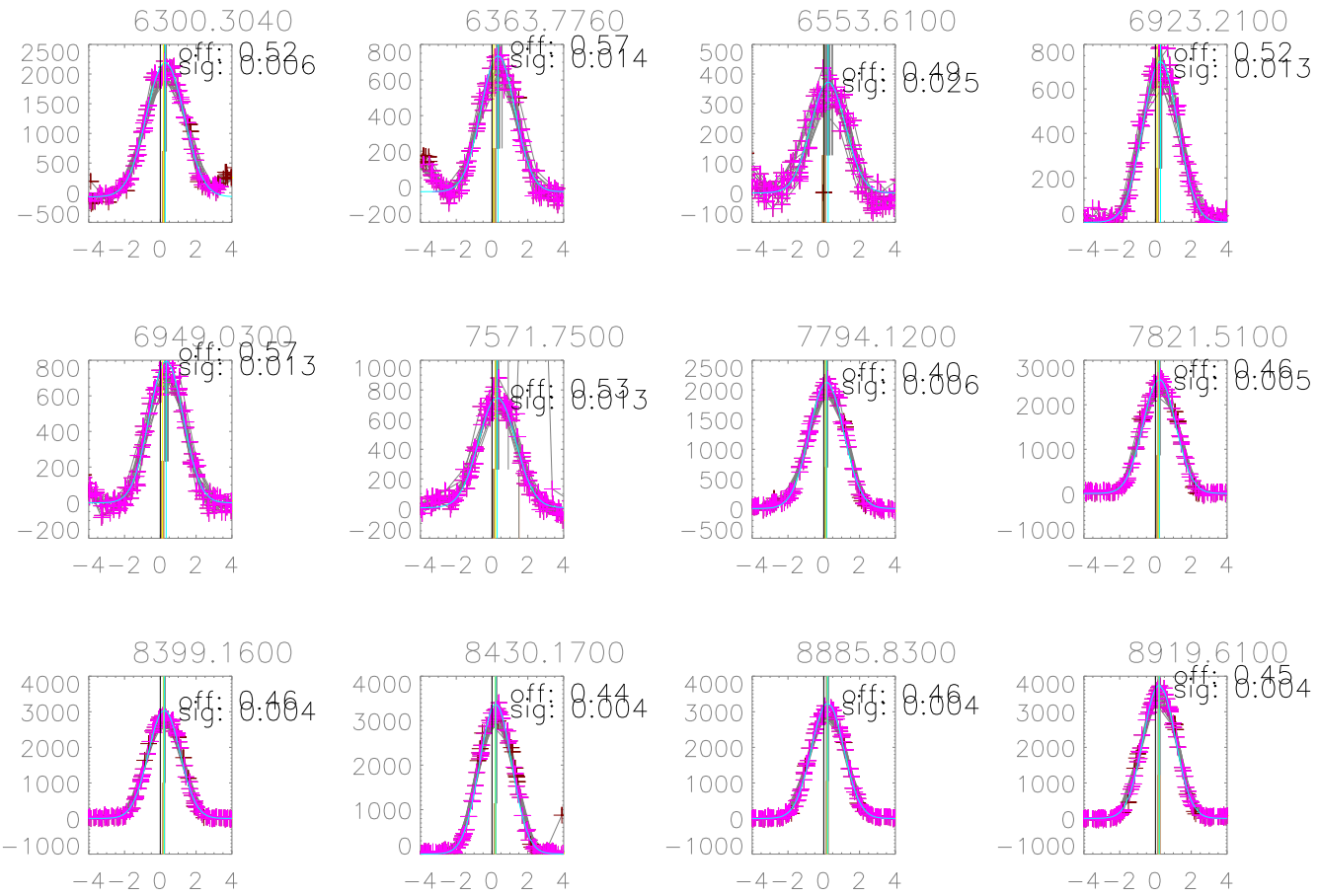

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-r2-00051145.fi
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
77.27
40.91
77.27
40.91
77.27
40.91
77.27
40.91
4.55

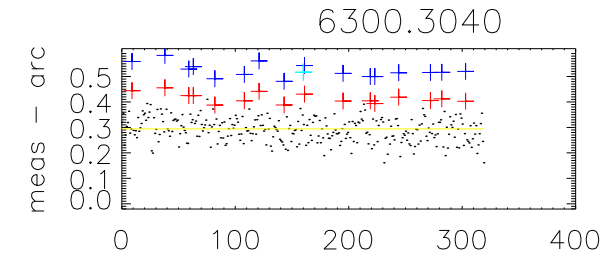

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-r2-00051145.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 14.657
Max value = 96.064
Wed Mar 19 14:24:36 2008

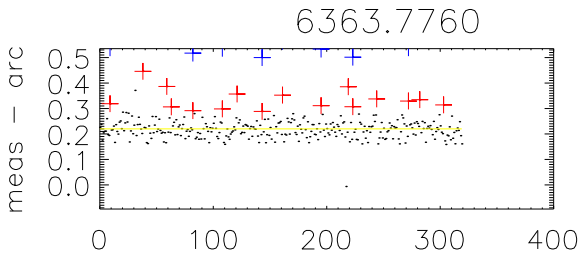

PLATE=2459 MJD=54544 Scattered Light on sdR-r2-00051145.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
23.6
41.8
5.5
8.14

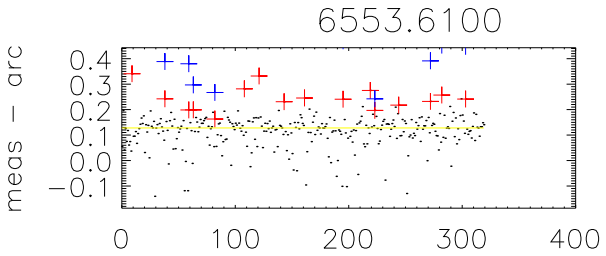

PLATE=2459 MJD=54544 Scattered Light on sdR-r2-00051145.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 13.891
Max value = 37.049
Wed Mar 19 14:26:51 2008

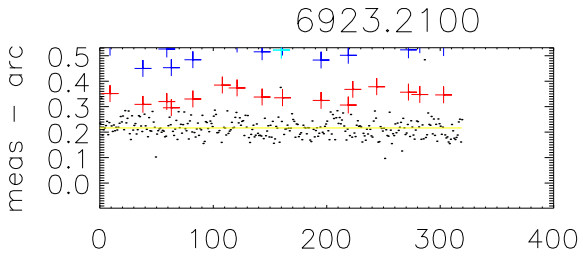

PLATE=2459 MJD=54544 Extraction chi^2 for sdR−r2−00051145.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

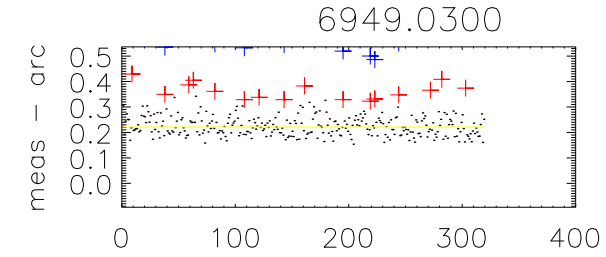

6300.3040
off: 0.52
sig: 0.006
6363.7760
off: 0.57
sig: 0.014
6553.6100
off: 0.48
sig: 0.025
6923.2100
off: 0.52
sig: 0.013
6949.0300
off: 0.57
sig: 0.013
7571.7500
off: 0.53
sig: 0.013
7794.1200
off: 0.40
sig: 0.006
7821.5100
off: 0.46
sig: 0.005
8399.1600
off: 0.46
sig: 0.004
8430.1700
off: 0.44
sig: 0.004
8885.8300
off: 0.46
sig: 0.004
8919.6100
off: 0.45
sig: 0.004

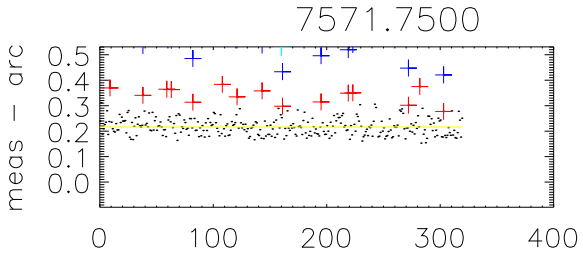

6300.3040
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

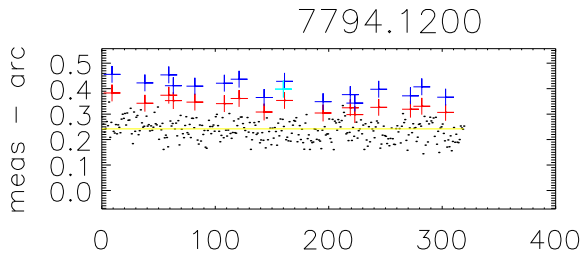

6363.7760
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

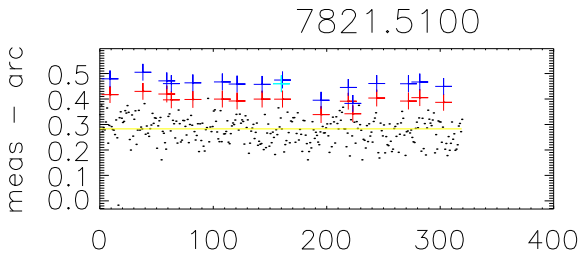

6553.6100
meas − arc
−0.1
0.0
0.1
0.2
0.3
0.4
0
100
200
300
400

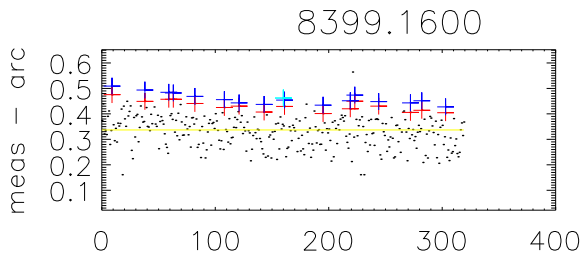

6923.2100
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

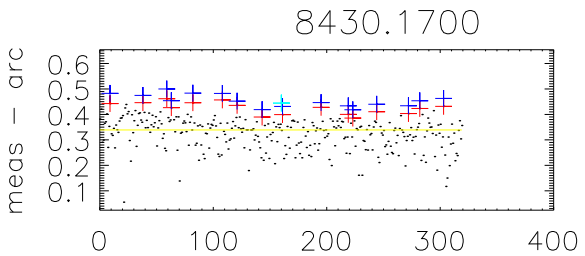

6949.0300
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

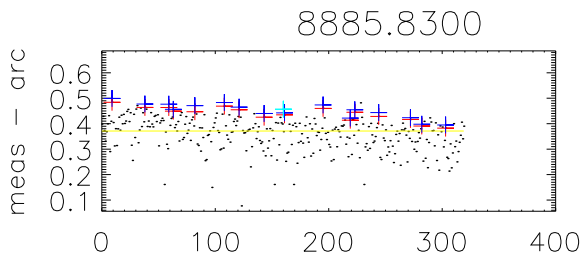

7571.7500
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

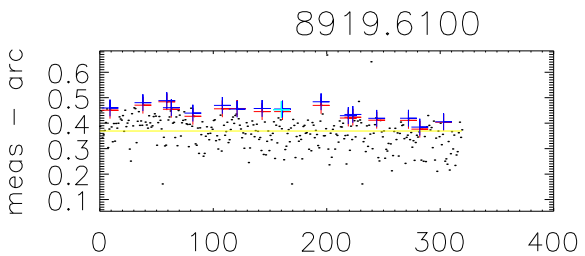

7794.1200
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

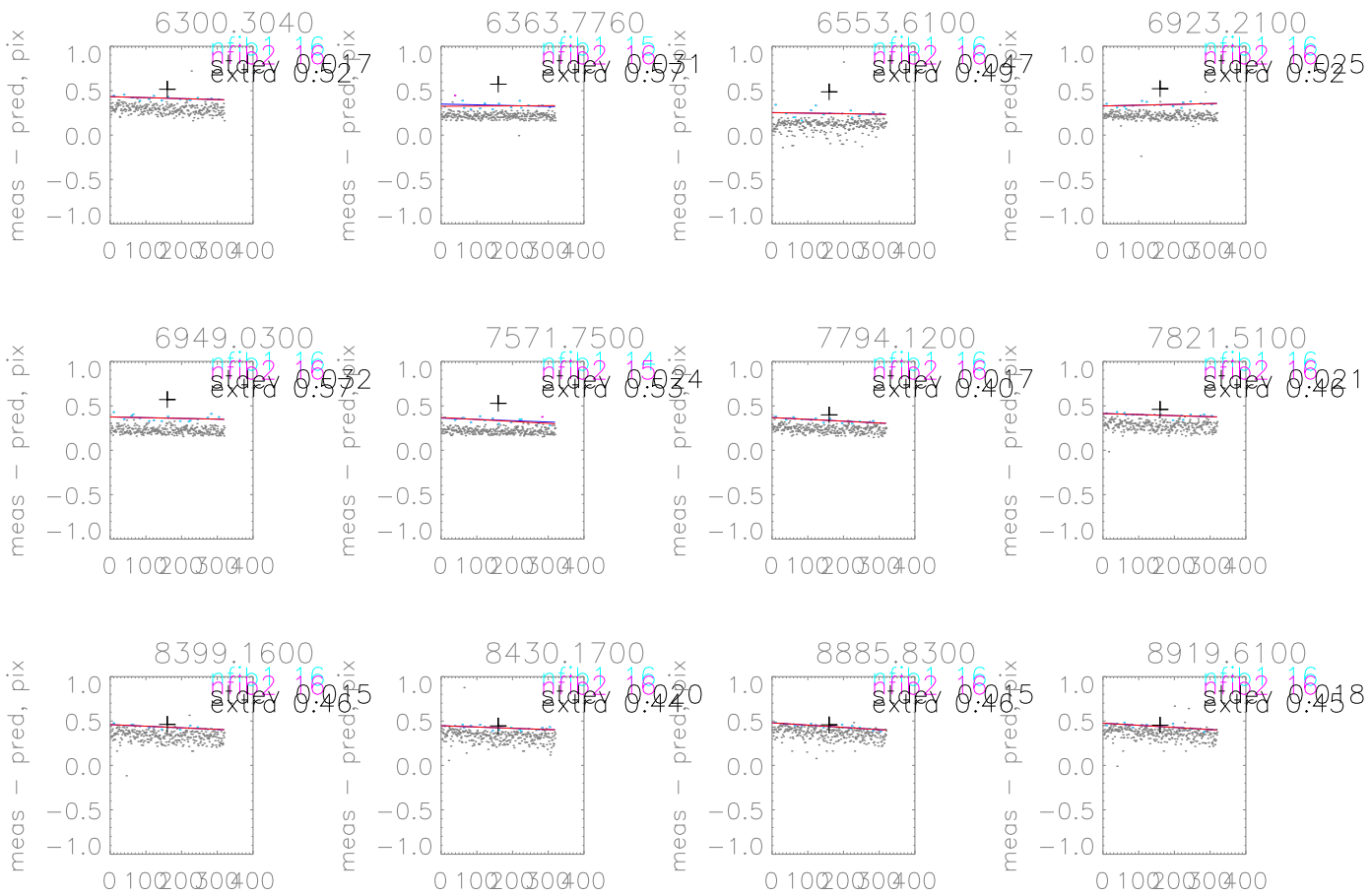

7821.5100
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

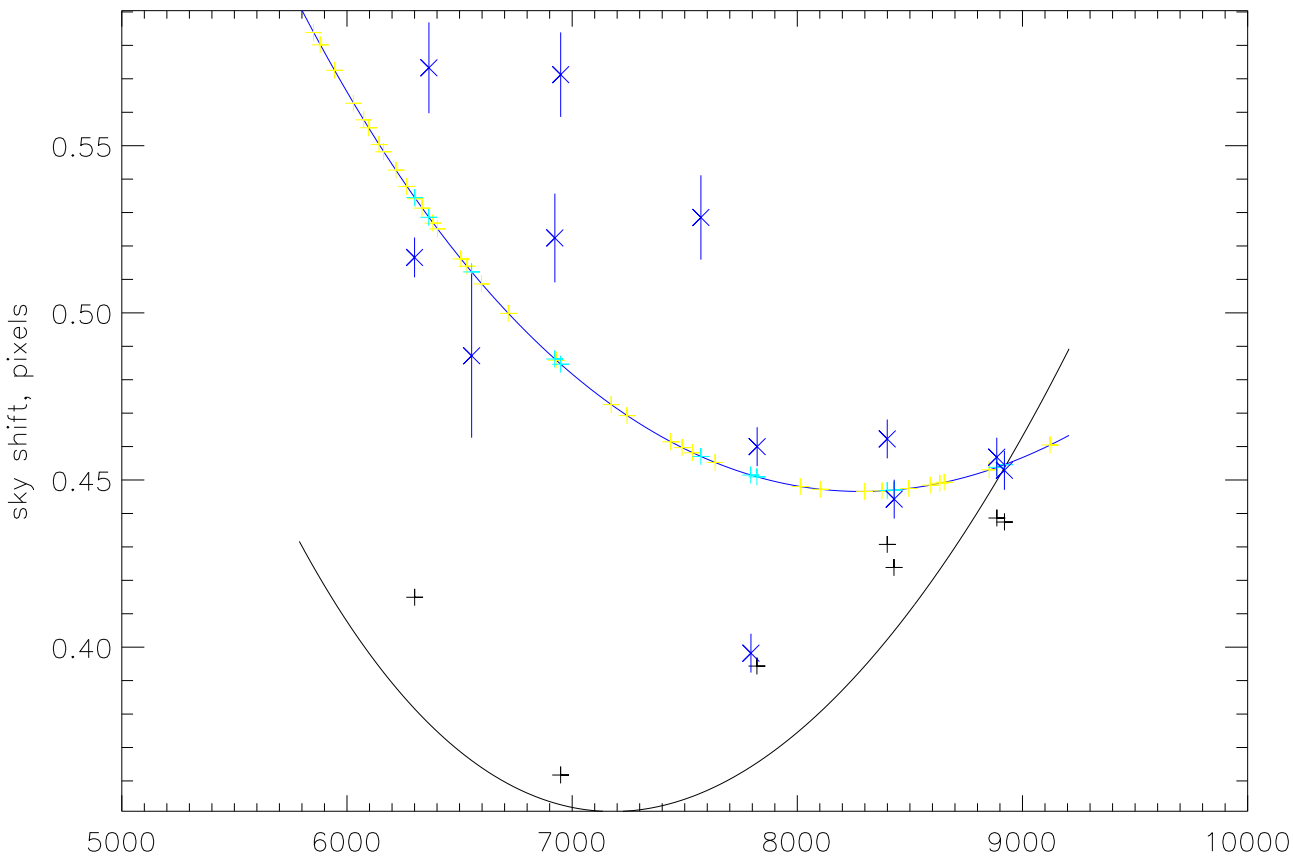

8399.1600
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

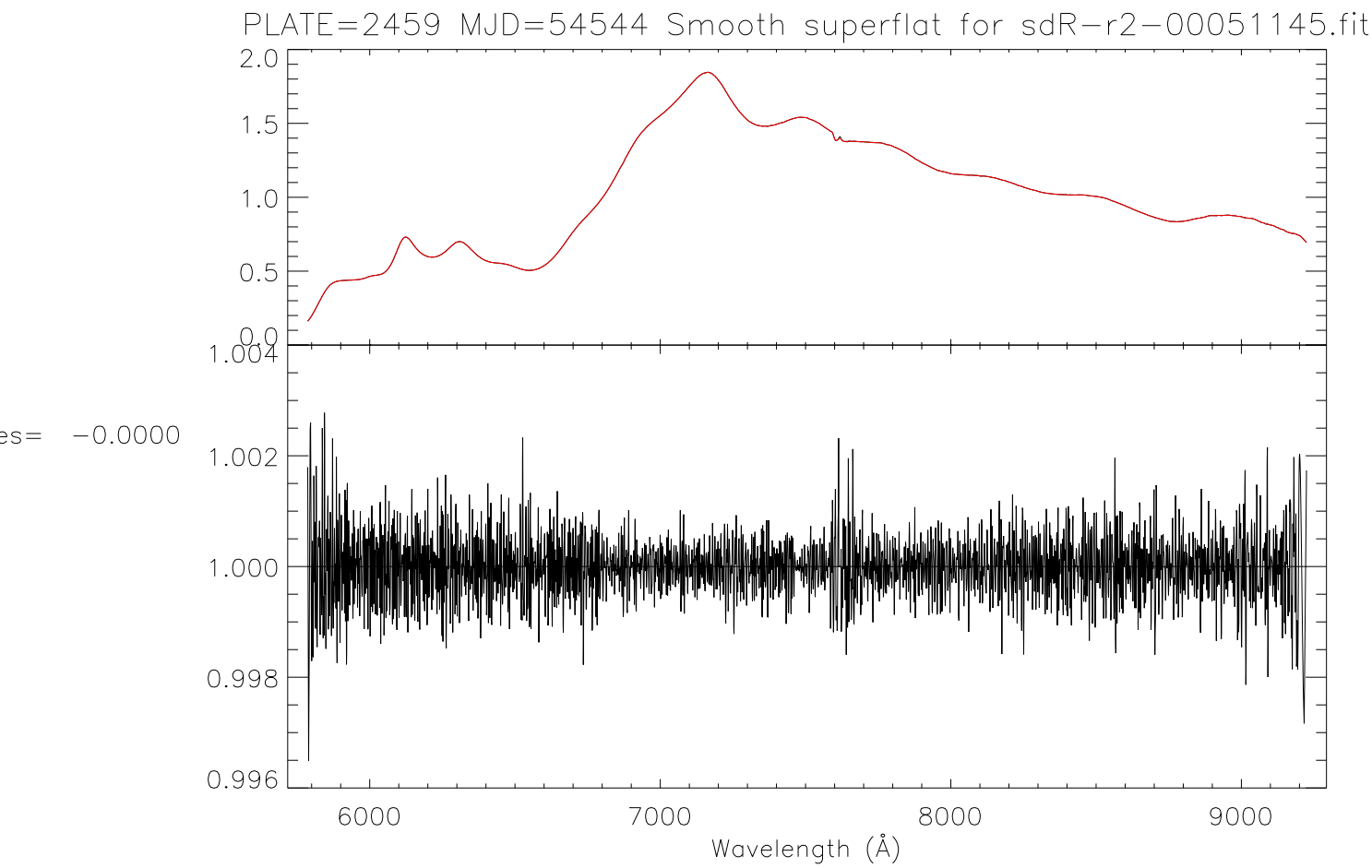

8430.1700
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

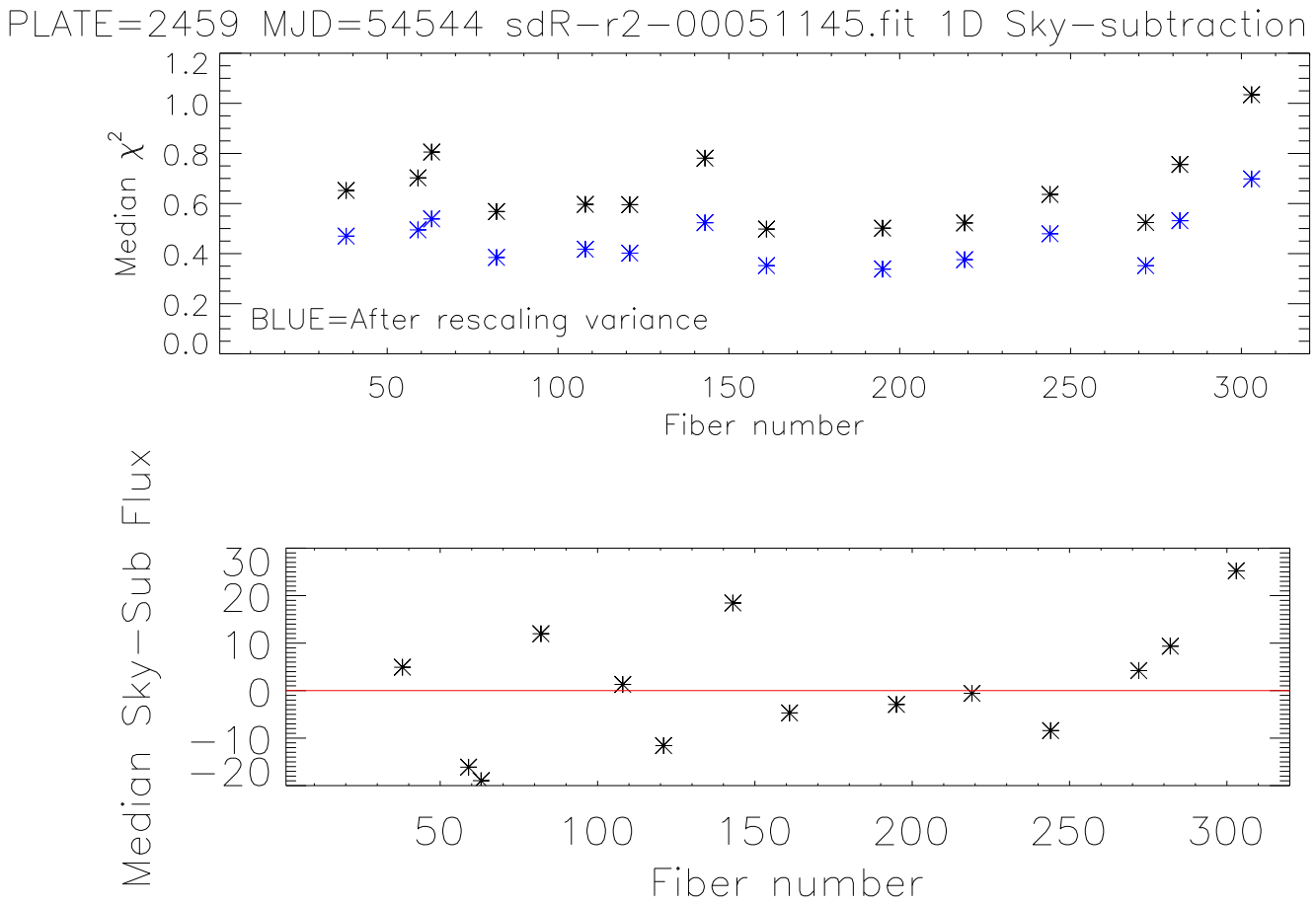

8885.8300
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

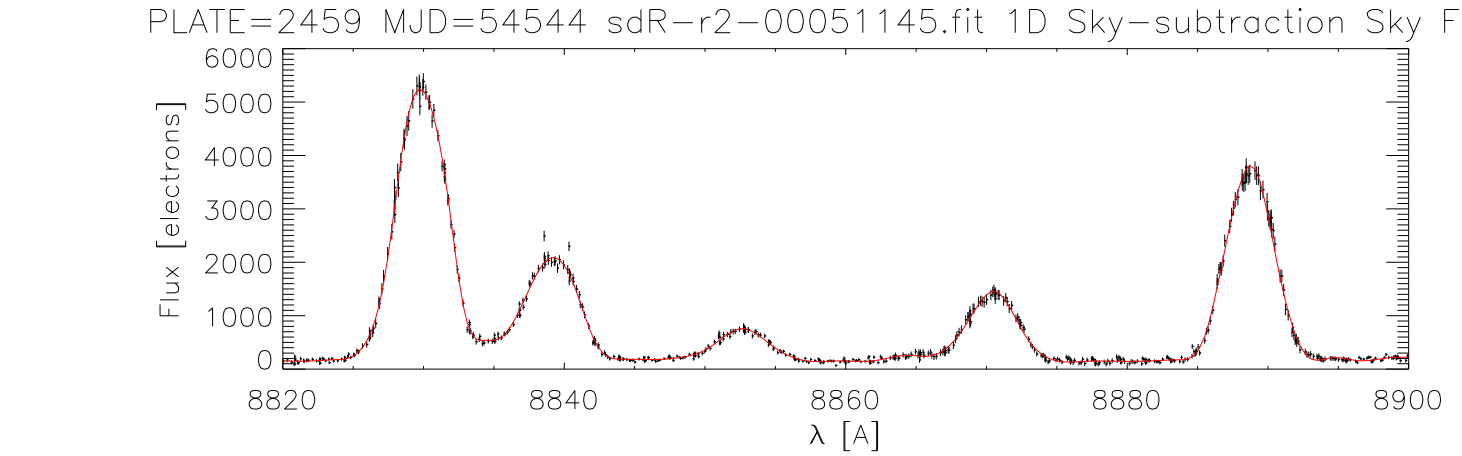

8919.6100
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

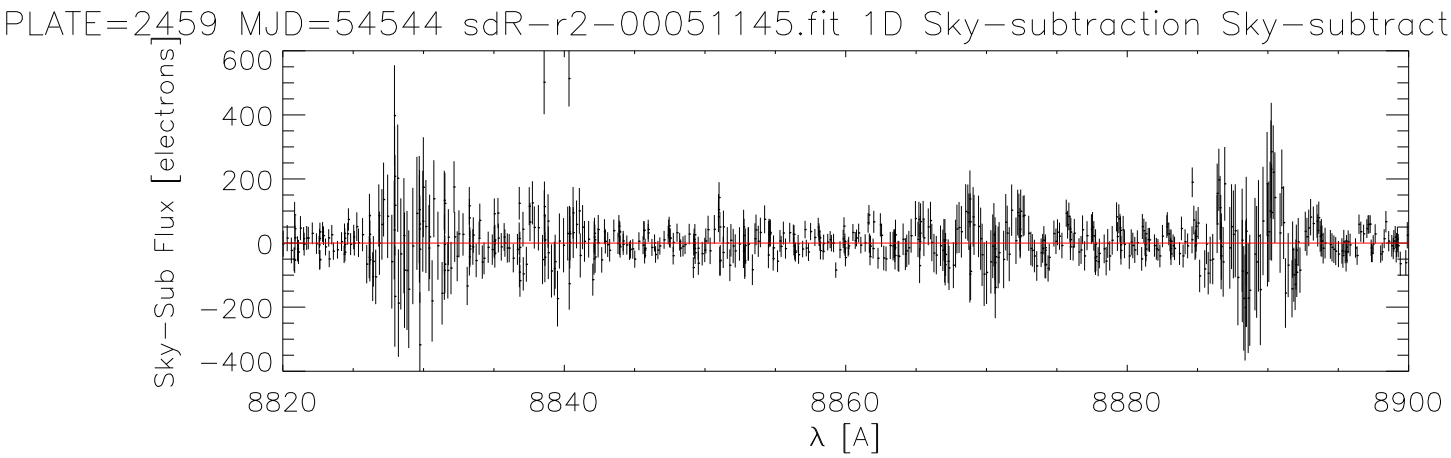

6300.3040
stdev 0.017
extra 0.52
6363.7760
stdev 0.031
extra 0.57
6553.6100
stdev 0.047
extra 0.49
6923.2100
stdev 0.025
extra 0.52
6949.0300
stdev 0.032
extra 0.57
7571.7500
stdev 0.024
extra 0.53
7794.1200
stdev 0.017
extra 0.40
7821.5100
stdev 0.021
extra 0.46
8399.1600
stdev 0.045
extra 0.46
8430.1700
stdev 0.020
extra 0.44
8885.8300
stdev 0.045
extra 0.46
8919.6100
stdev 0.018
extra 0.45
meas − pred, pix
mfhd2 16
mfhd1 16

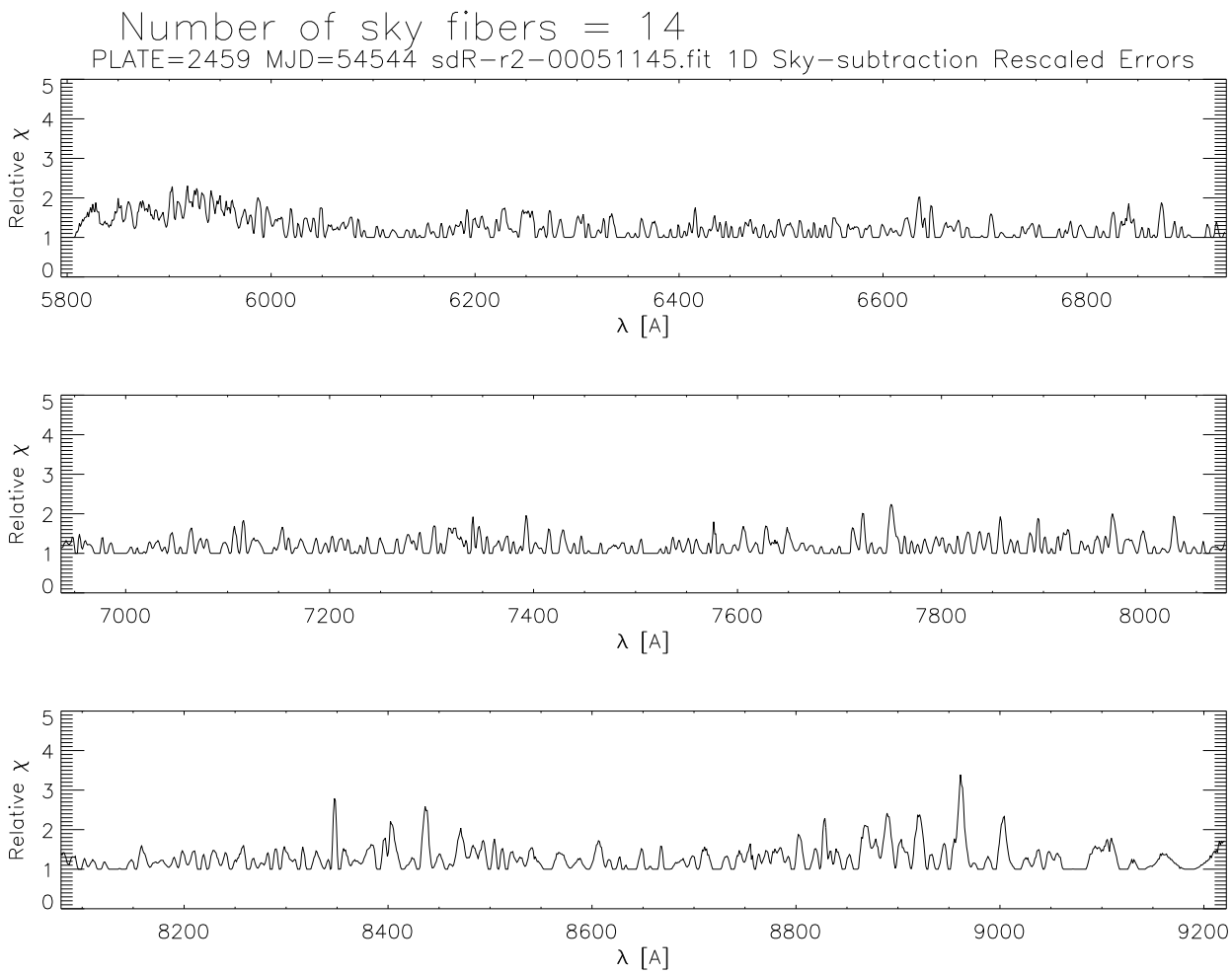

sky shift, pixels
0.55
0.50
0.45
0.40
5000
6000
7000
8000
9000
10000

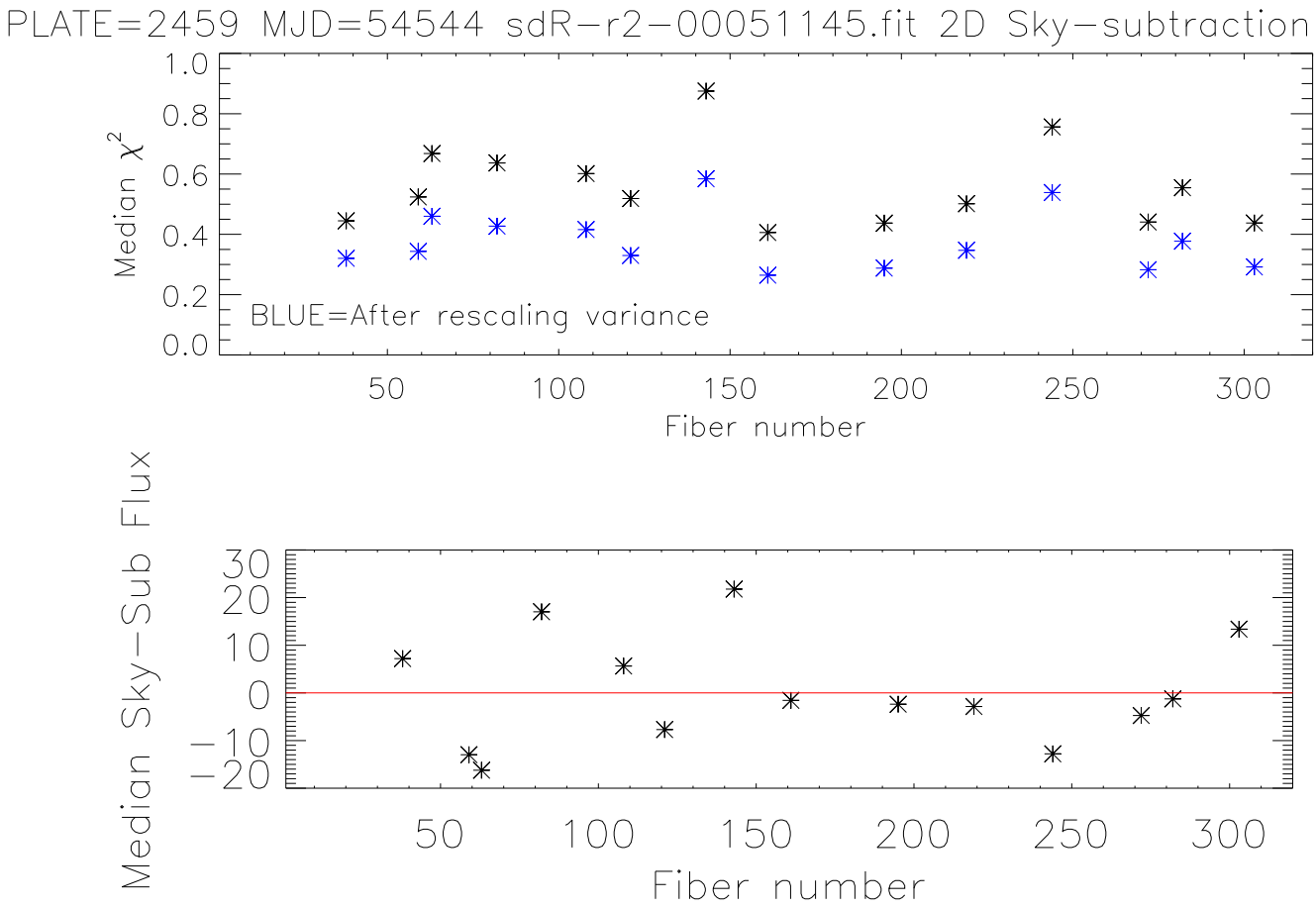

PLATE=2459 MJD=54544 Smooth superflat for sdR-r2-00051145.fit
2.0
1.5
1.0
0.5
0.0
1.004
1.002
1.000
0.998
0.996
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

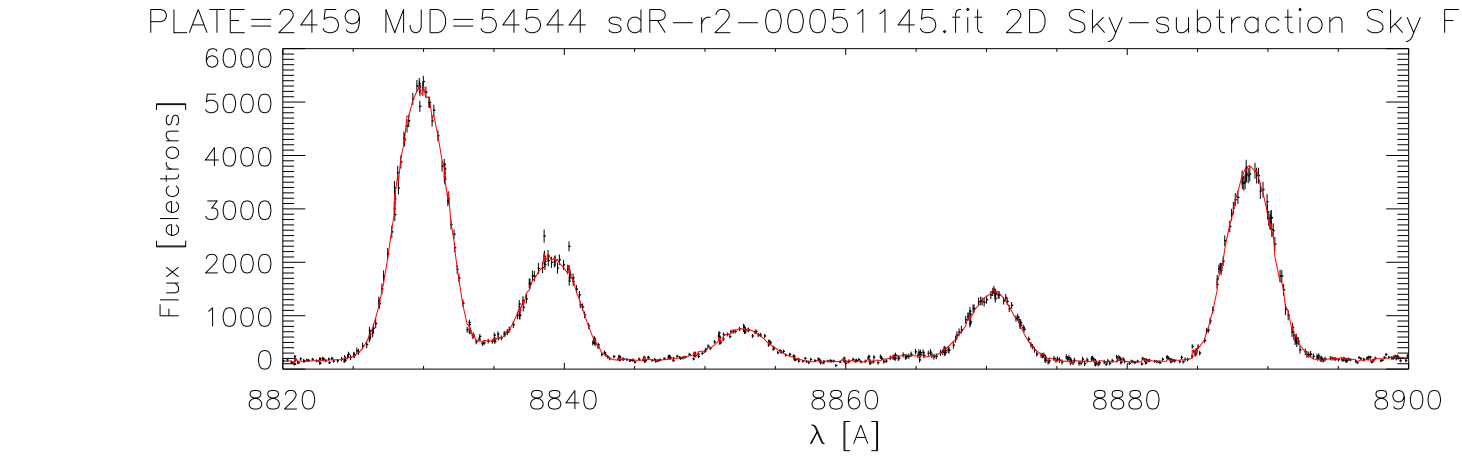

PLATE=2459 MJD=54544 sdR-r2-00051145.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

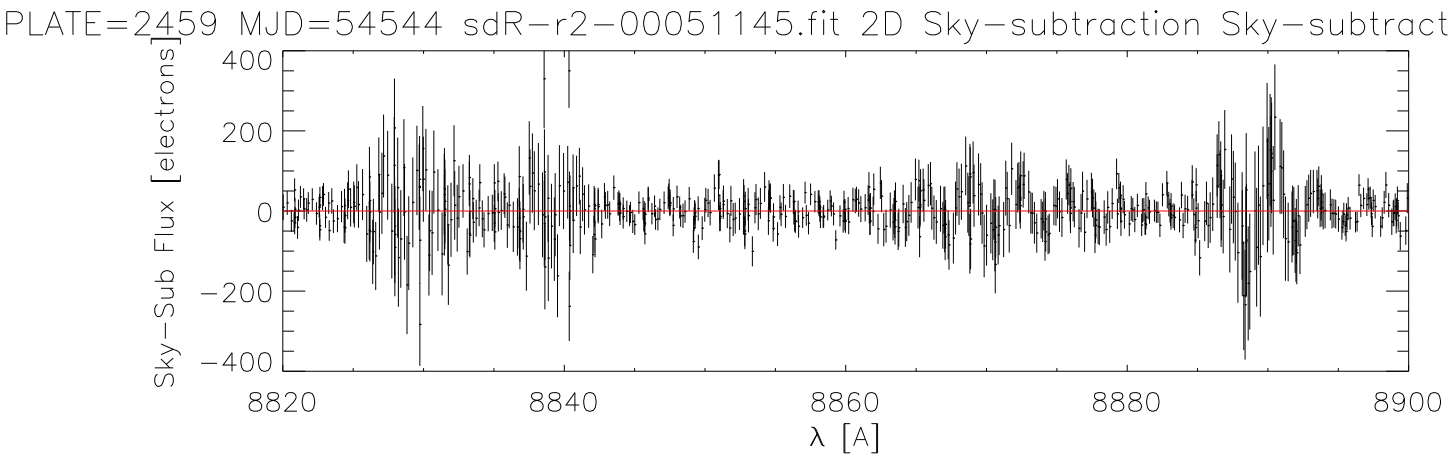

PLATE=2459 MJD=54544 sdR-r2-00051145.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

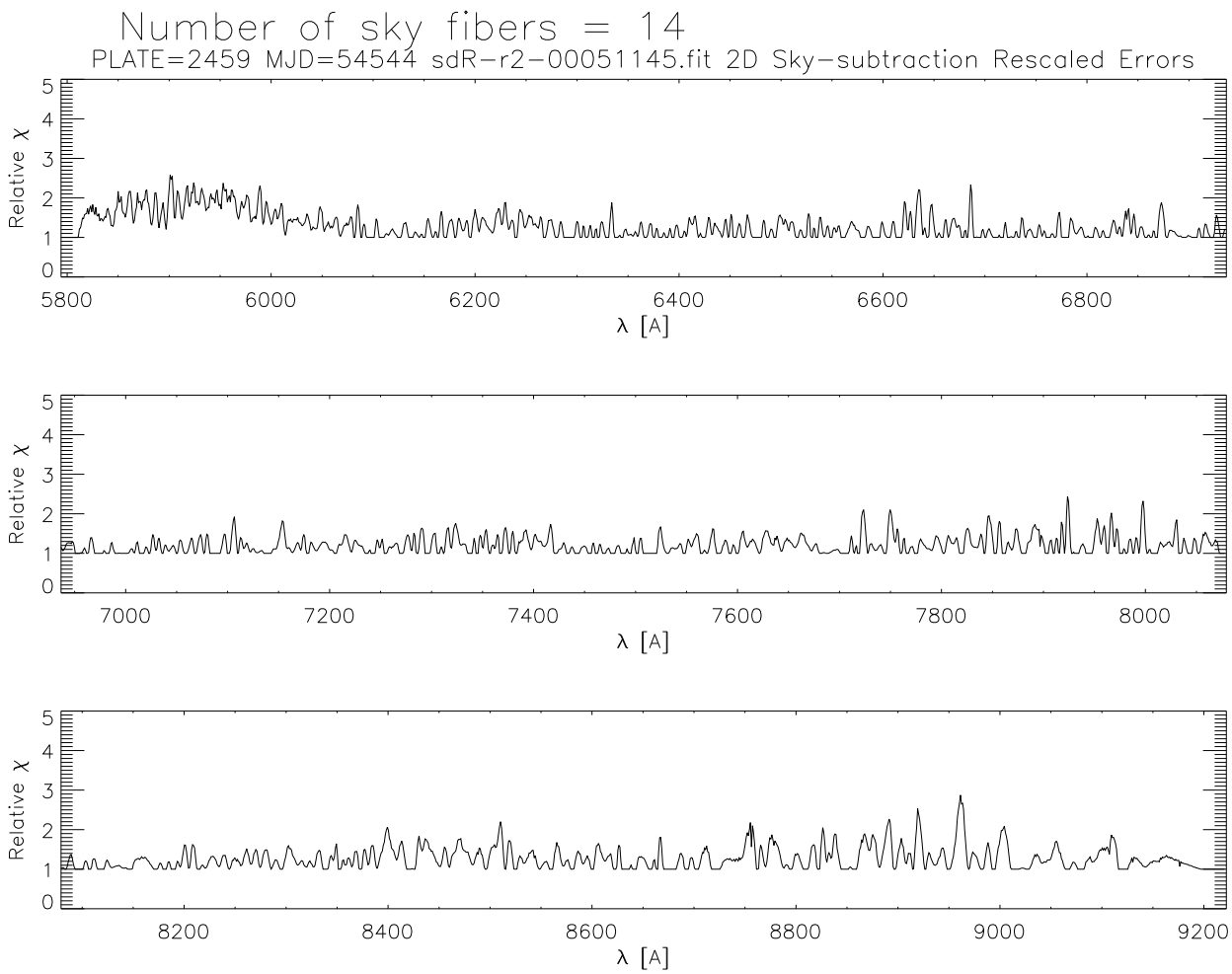

PLATE=2459 MJD=54544 sdR-r2-00051145.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

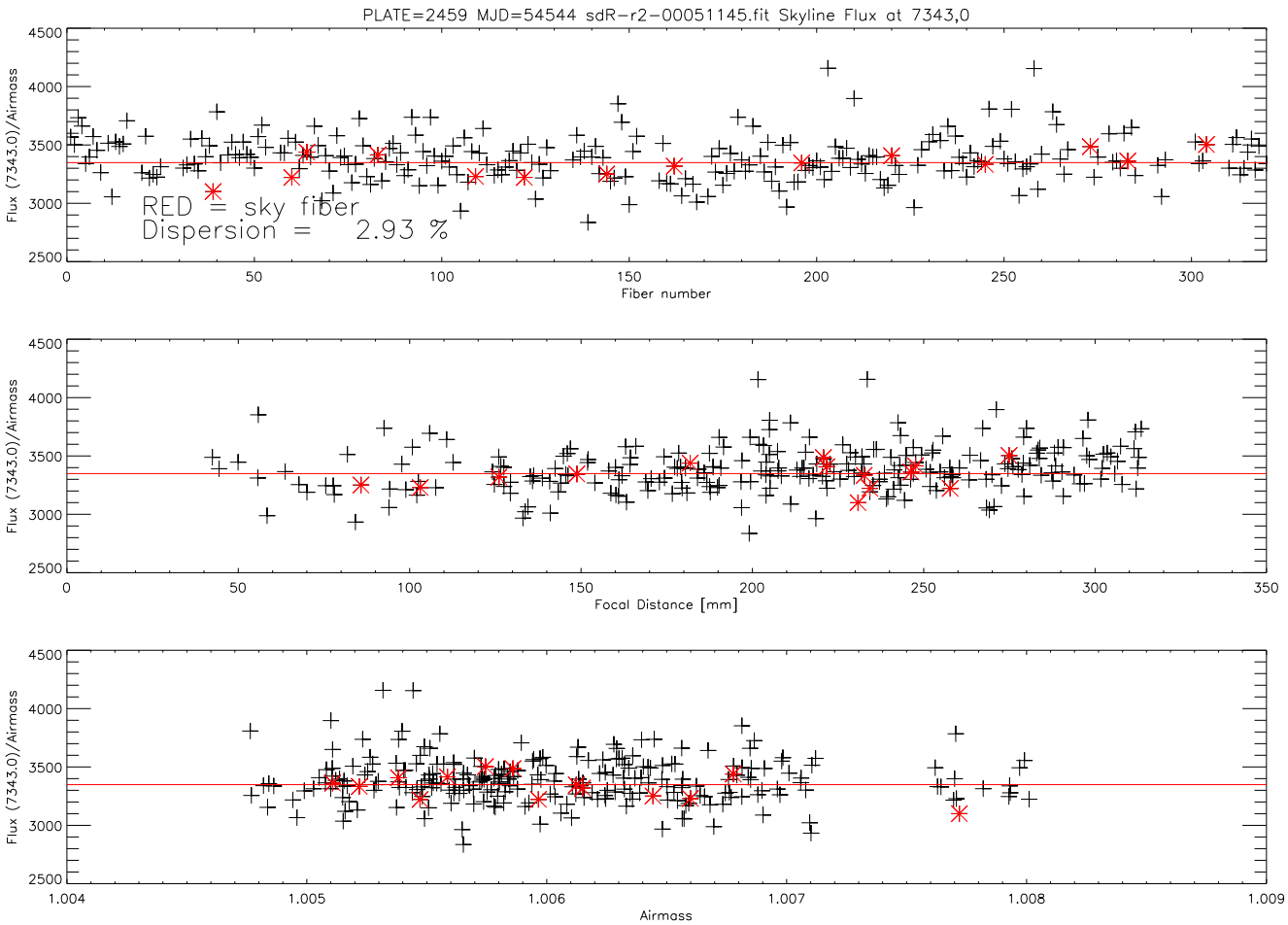

Number of sky fibers = 14
PLATE=2459 MJD=54544 sdR-r2-00051145.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

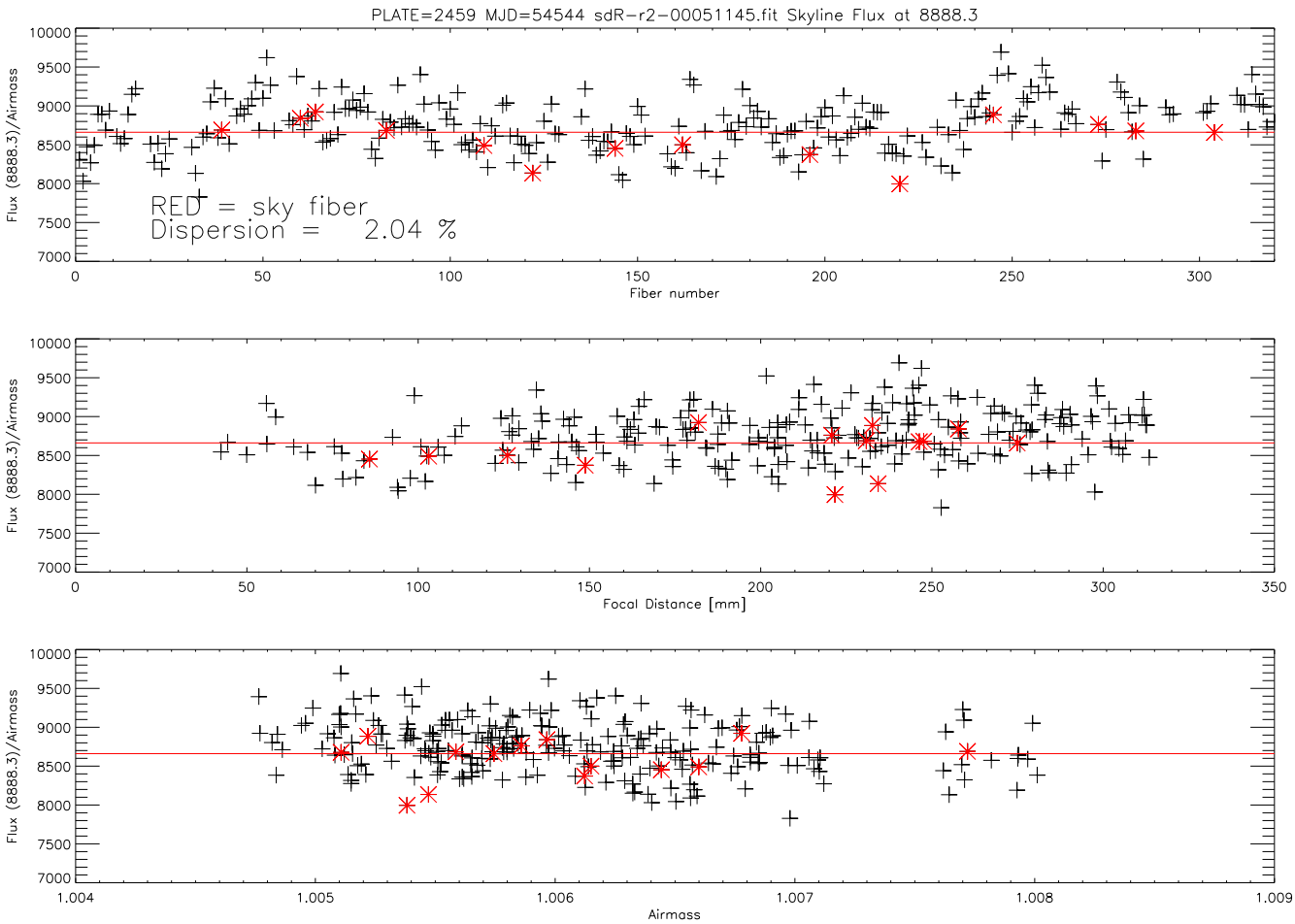

PLATE=2459 MJD=54544 sdR-r2-00051145.fit 2D Sky-subtraction Sky Fibers
Median χ^2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
30
20
10
0
-10
-20
50
100
150
200
250
300
Fiber number

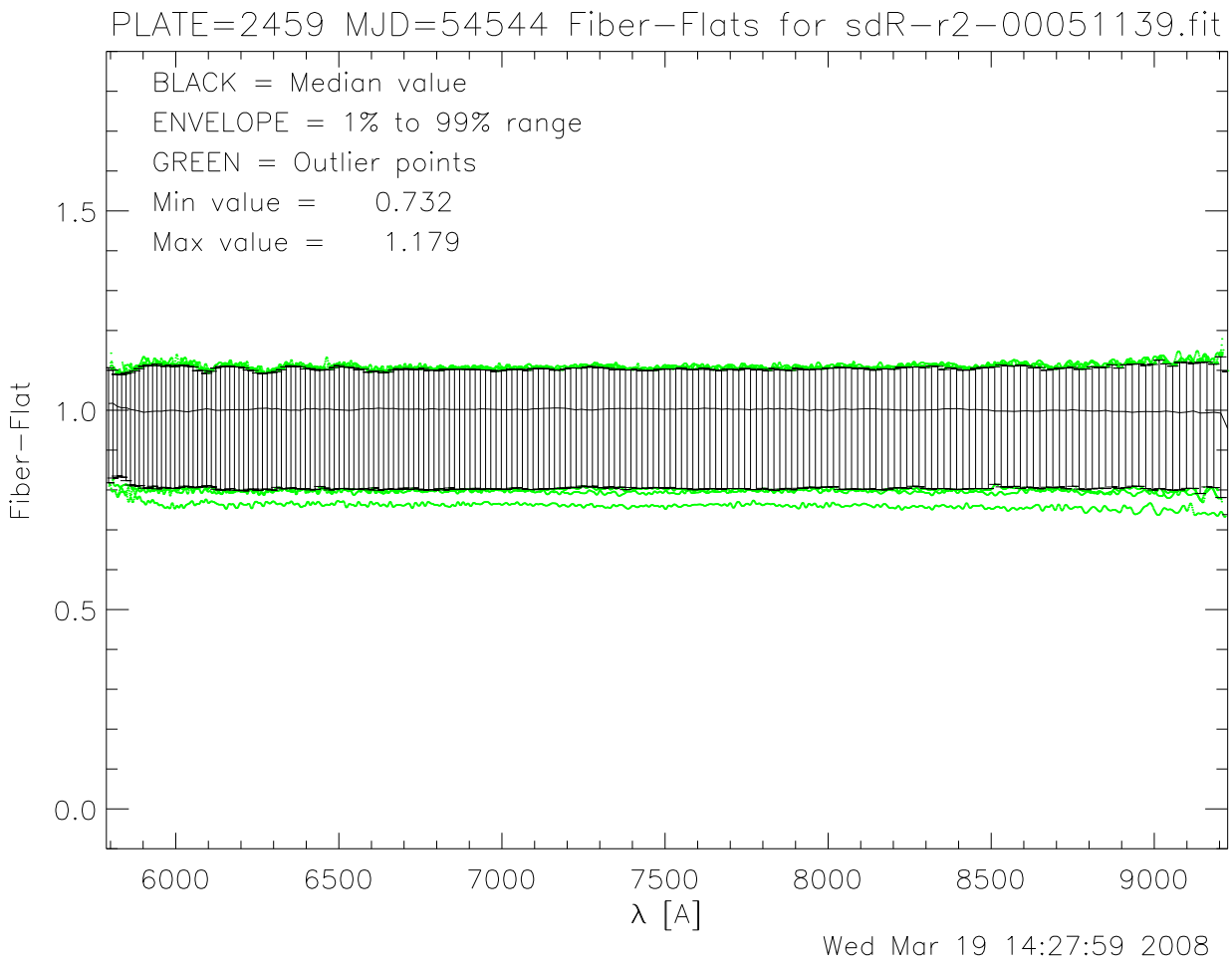

PLATE=2459 MJD=54544 sdR-r2-00051145.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

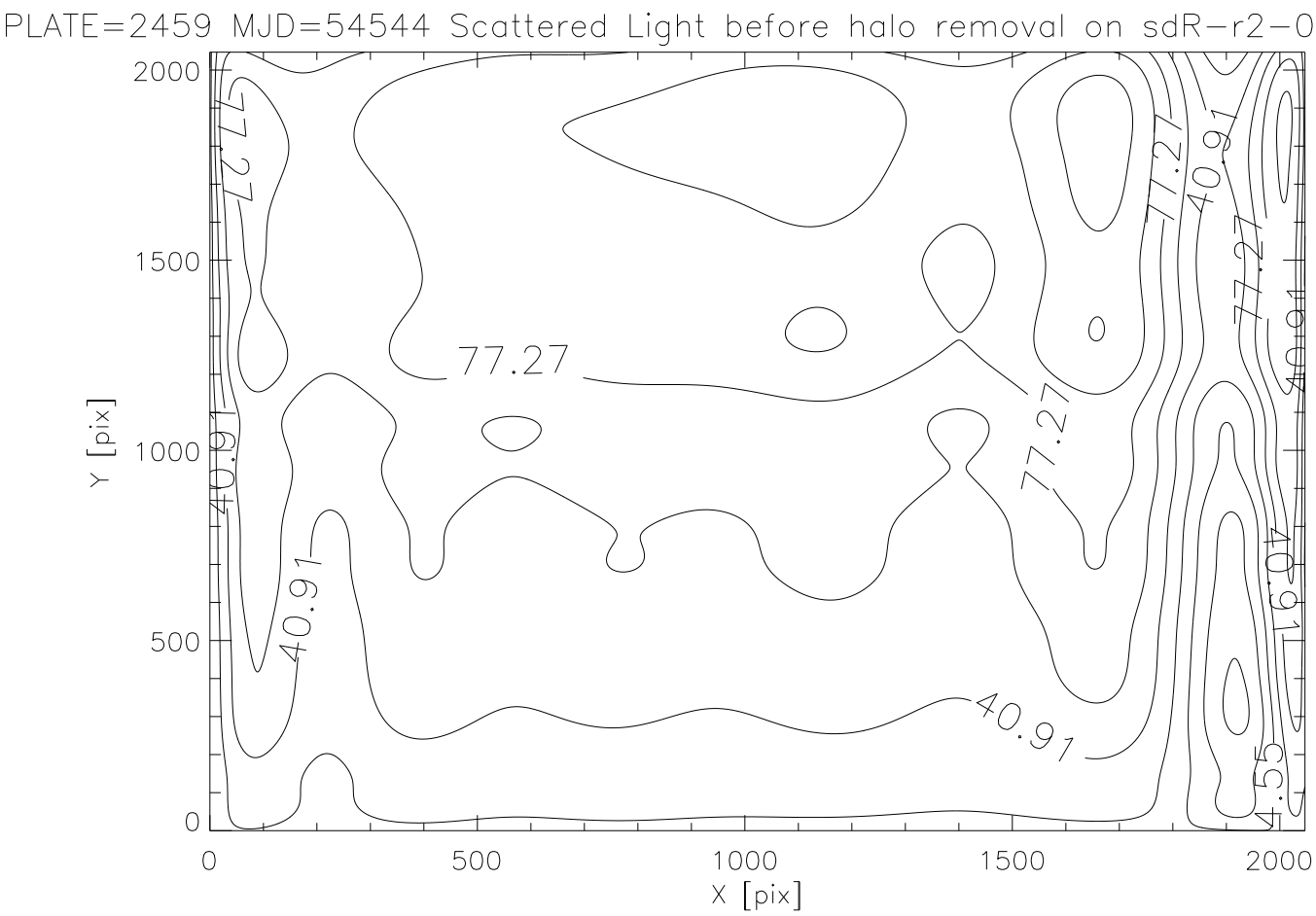

PLATE=2459 MJD=54544 sdR-r2-00051145.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

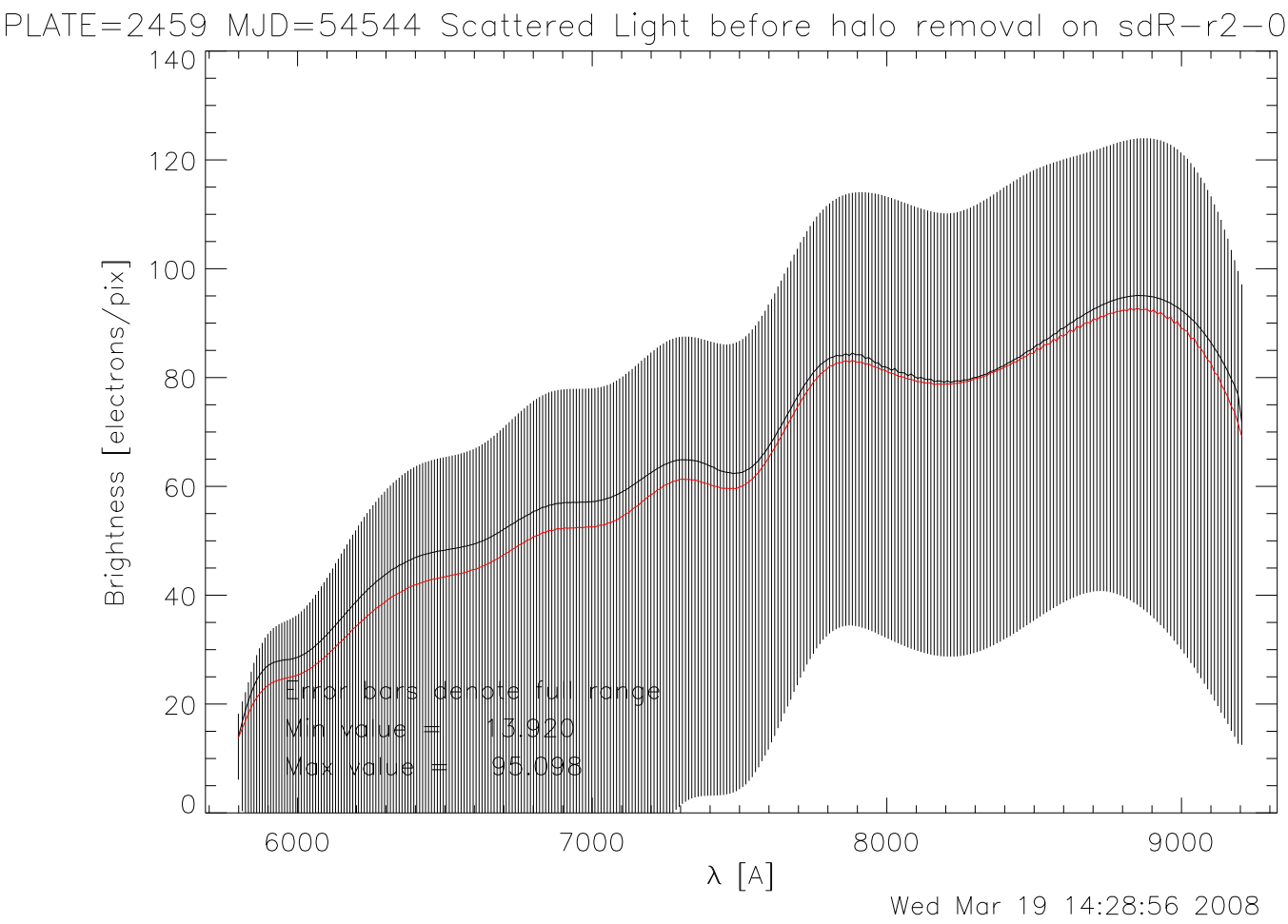

Number of sky fibers = 14
PLATE=2459 MJD=54544 sdR-r2-00051145.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

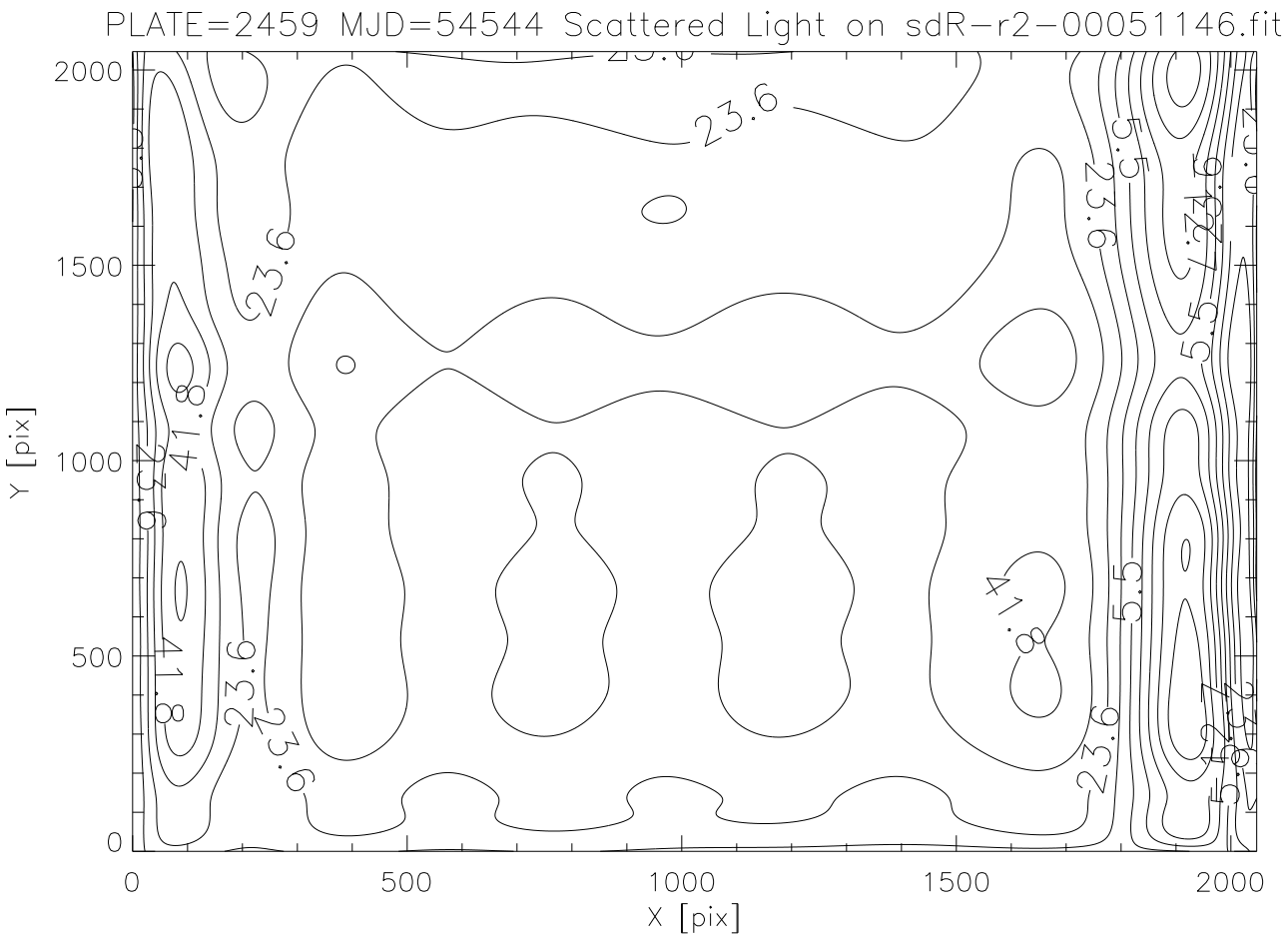

PLATE=2459 MJD=54544 sdR-r2-00051145.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.93 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

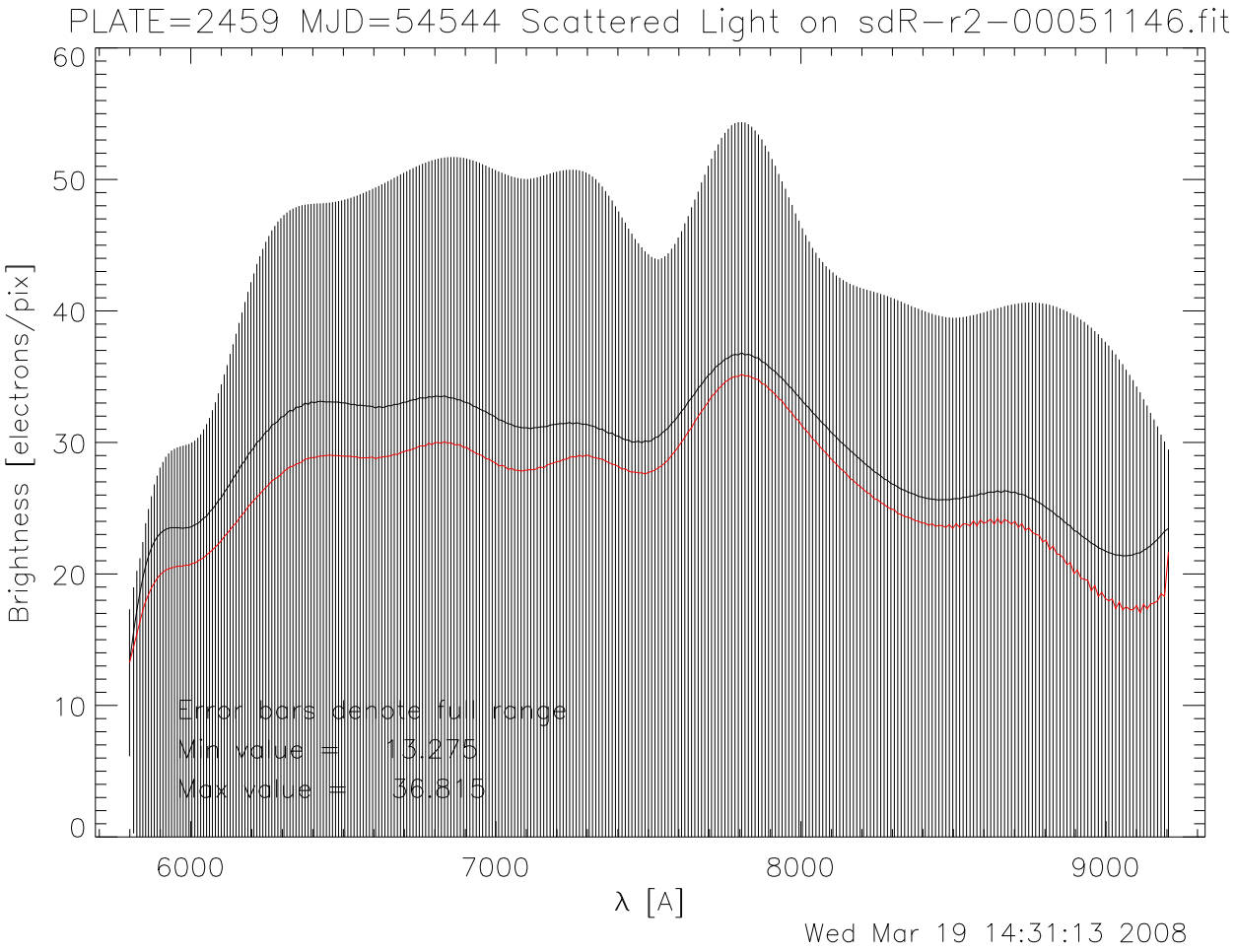

PLATE=2459 MJD=54544 sdR-r2-00051145.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.04 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

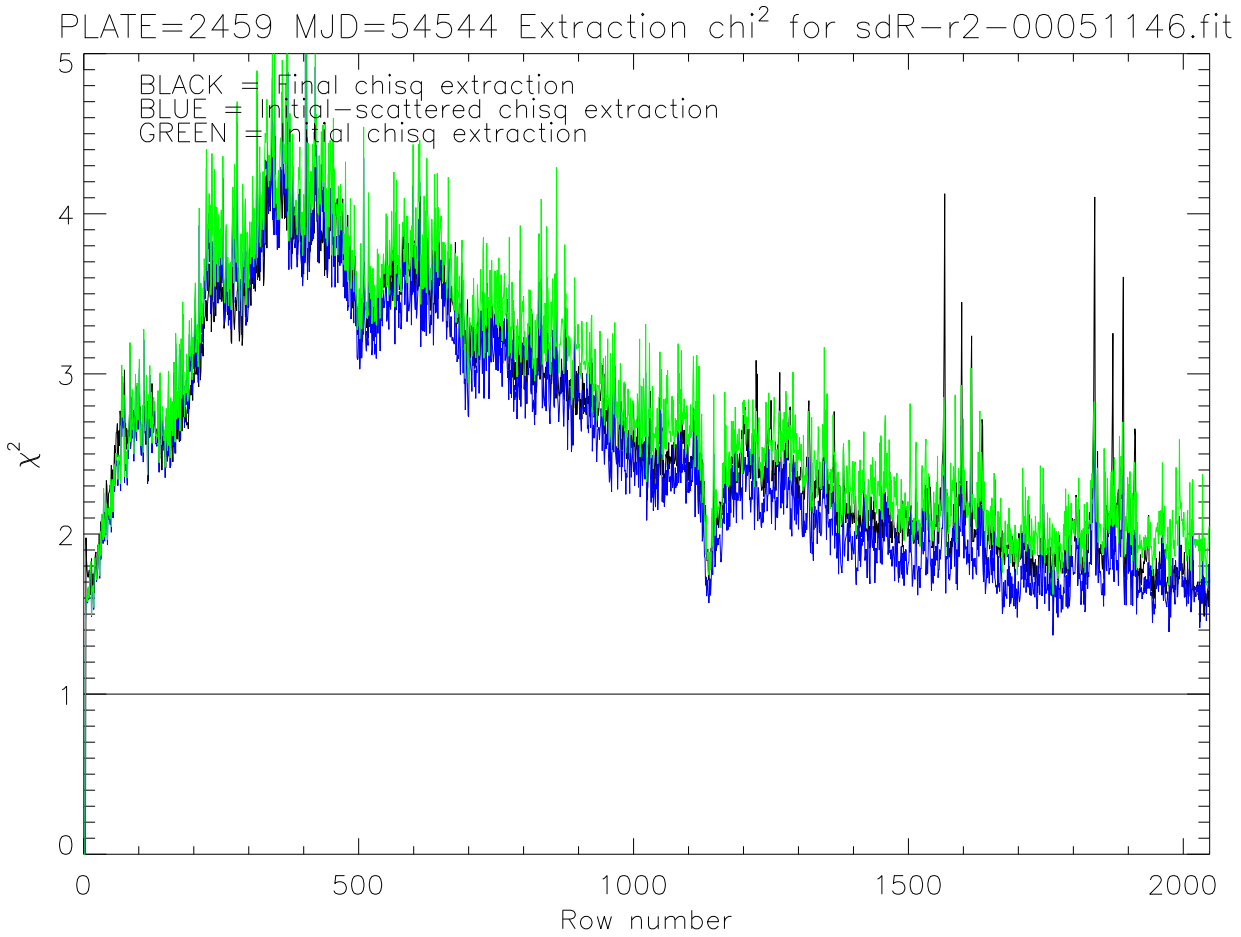

PLATE=2459 MJD=54544 Fiber−Flats for sdR−r2−00051139.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.732
Max value = 1.179
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 19 14:27:59 2008

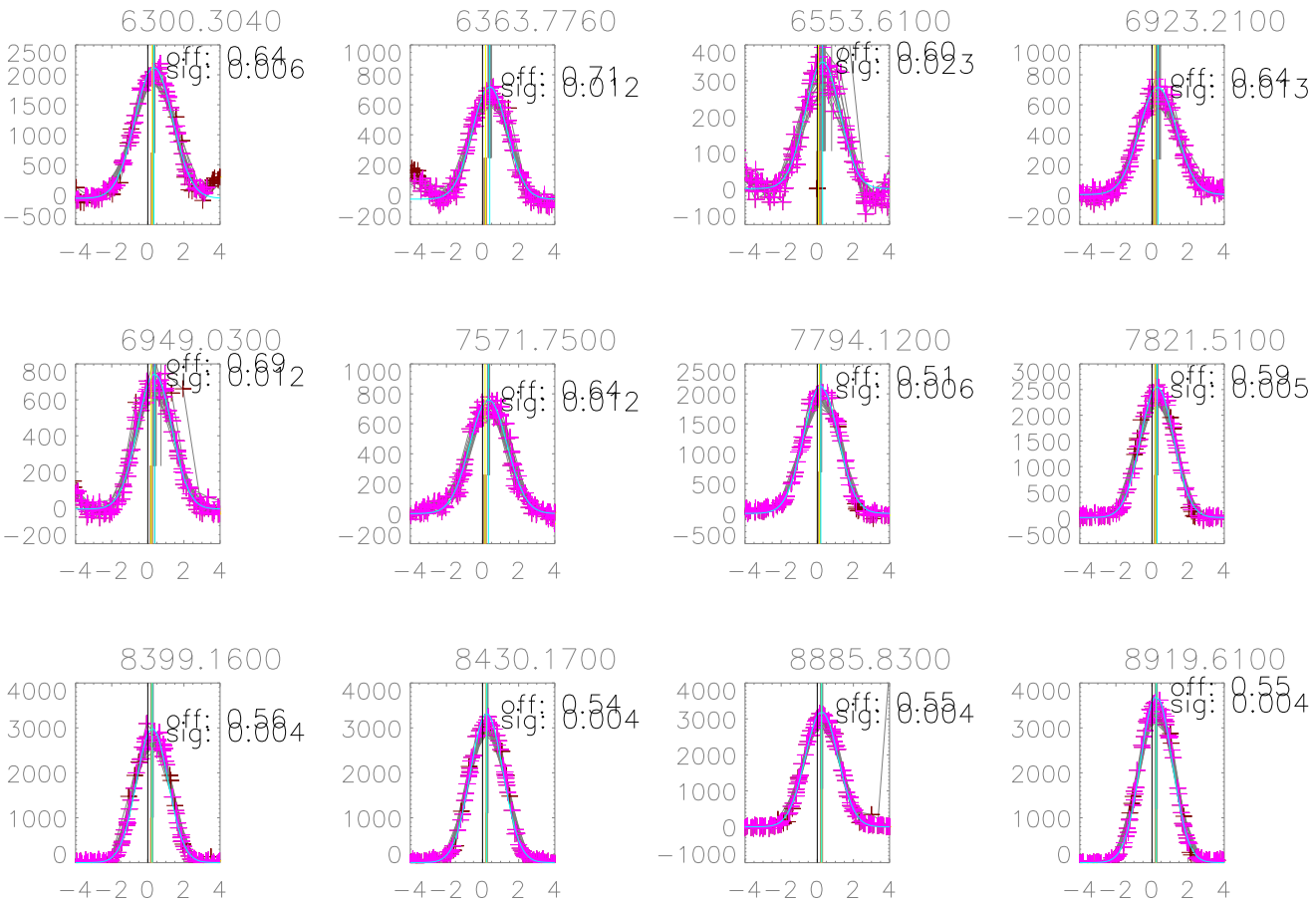

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-r2-00051146.fi
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
77.27
40.91
0
4.55

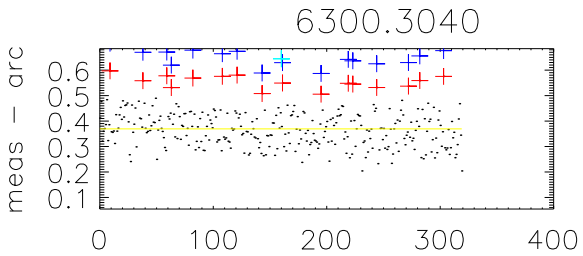

PLATE=2459 MJD=54544 Scattered Light before halo removal on sdR-r2-00051146.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 13.920
Max value = 95.098
Wed Mar 19 14:28:56 2008

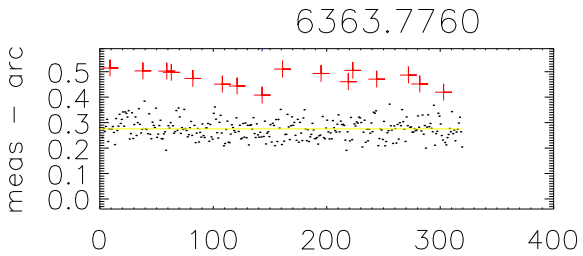

PLATE=2459 MJD=54544 Scattered Light on sdR-r2-00051146.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
23.6
41.8
55.5
0

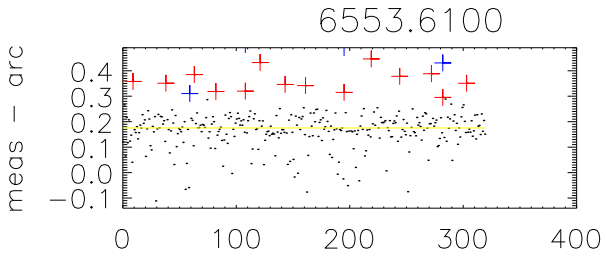

PLATE=2459 MJD=54544 Scattered Light on sdR-r2-00051146.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 13.275
Max value = 36.815
Wed Mar 19 14:31:13 2008

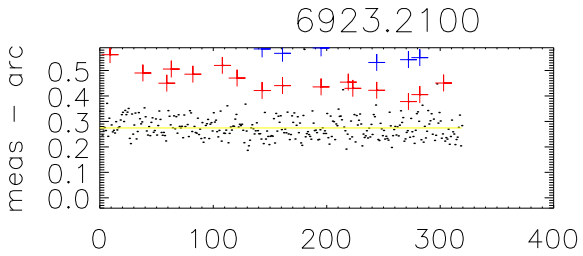

PLATE=2459 MJD=54544 Extraction chi^2 for sdR-r2-00051146.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
0
500
1000
1500
2000

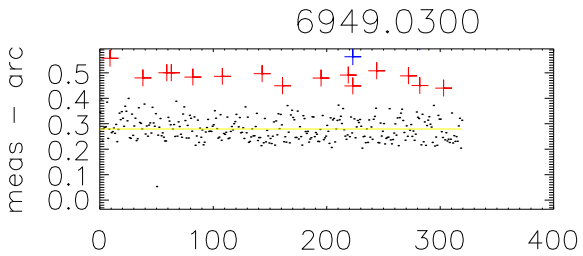

6300.3040
off: 0.64
sig: 0.006
6363.7760
off: 0.71
sig: 0.012
6553.6100
off: 0.60
sig: 0.023
6923.2100
off: 0.64
sig: 0.013
6949.0300
off: 0.69
sig: 0.012
7571.7500
off: 0.64
sig: 0.012
7794.1200
off: 0.51
sig: 0.006
7821.5100
off: 0.59
sig: 0.005
8399.1600
off: 0.56
sig: 0.004
8430.1700
off: 0.54
sig: 0.004
8885.8300
off: 0.55
sig: 0.004
8919.6100
off: 0.55
sig: 0.004

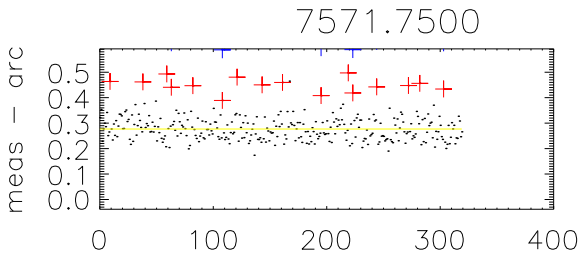

6300.3040
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

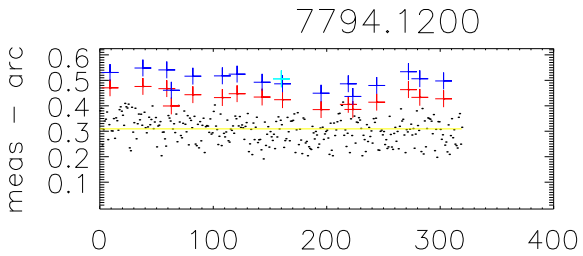

6363.7760
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

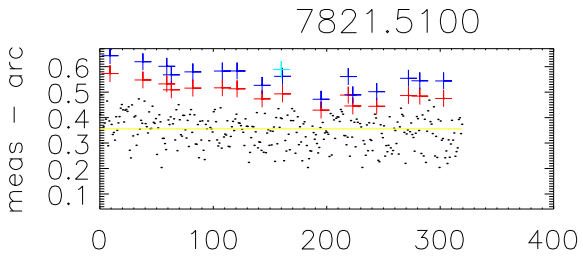

6553.6100
meas − arc
−0.1
0.0
0.1
0.2
0.3
0.4
0
100
200
300
400

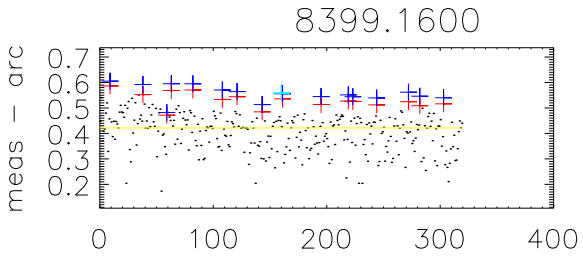

6923.2100
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

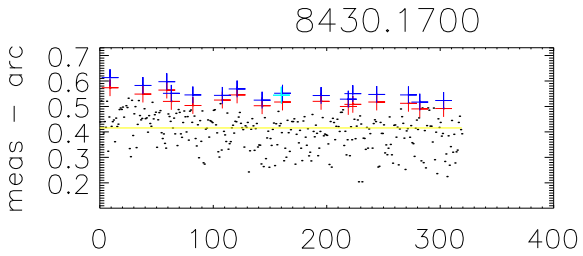

6949.0300
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

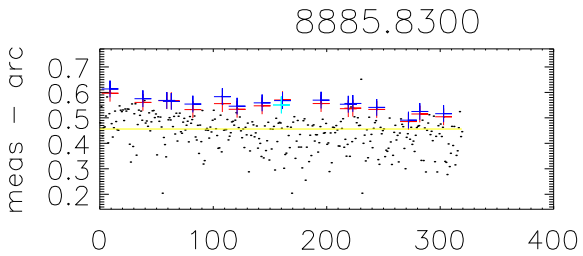

7571.7500
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

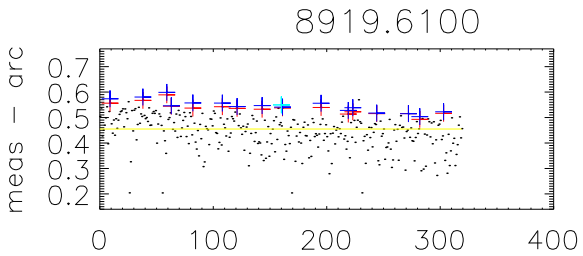

7794.1200
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

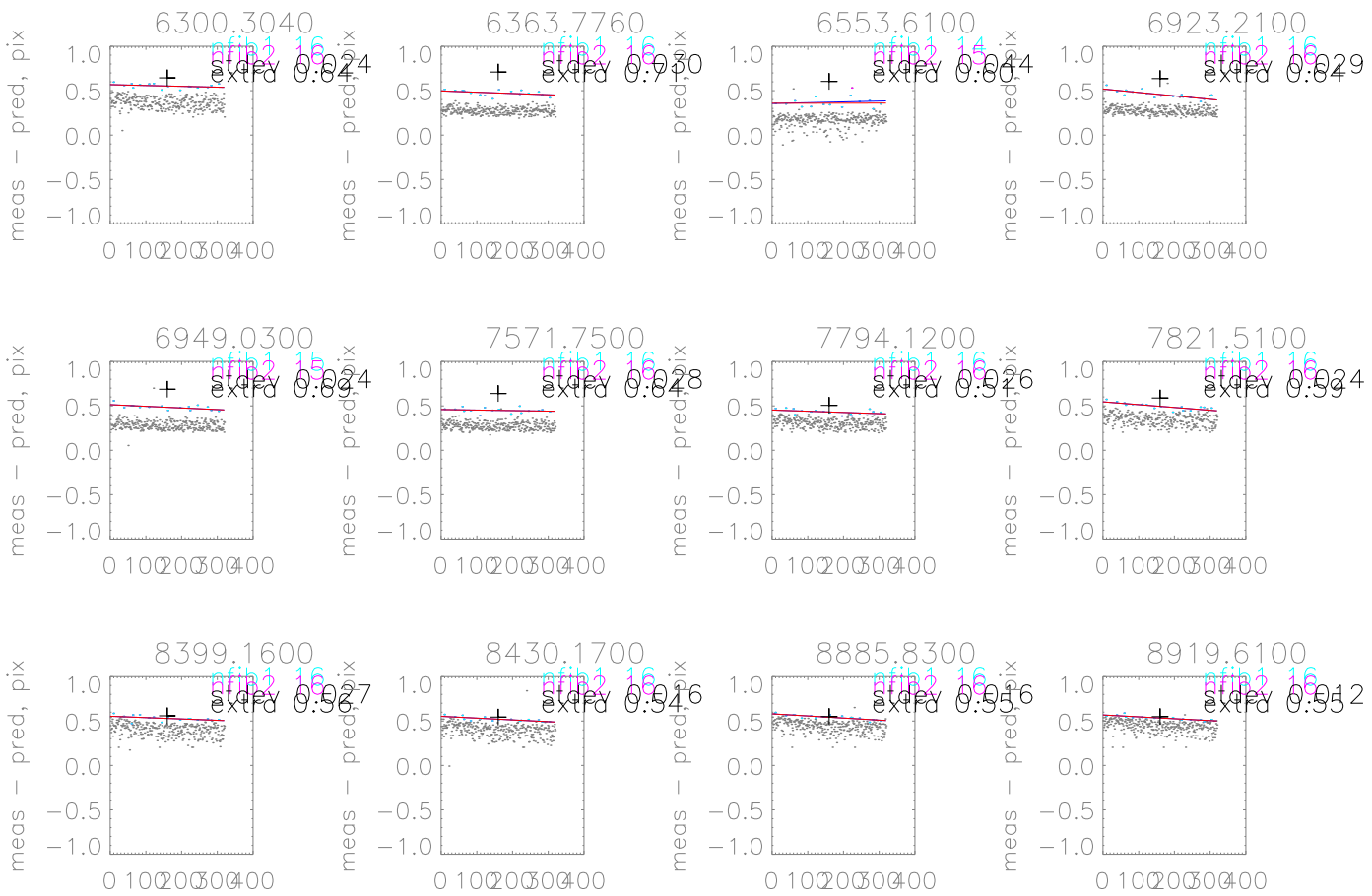

7821.5100
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

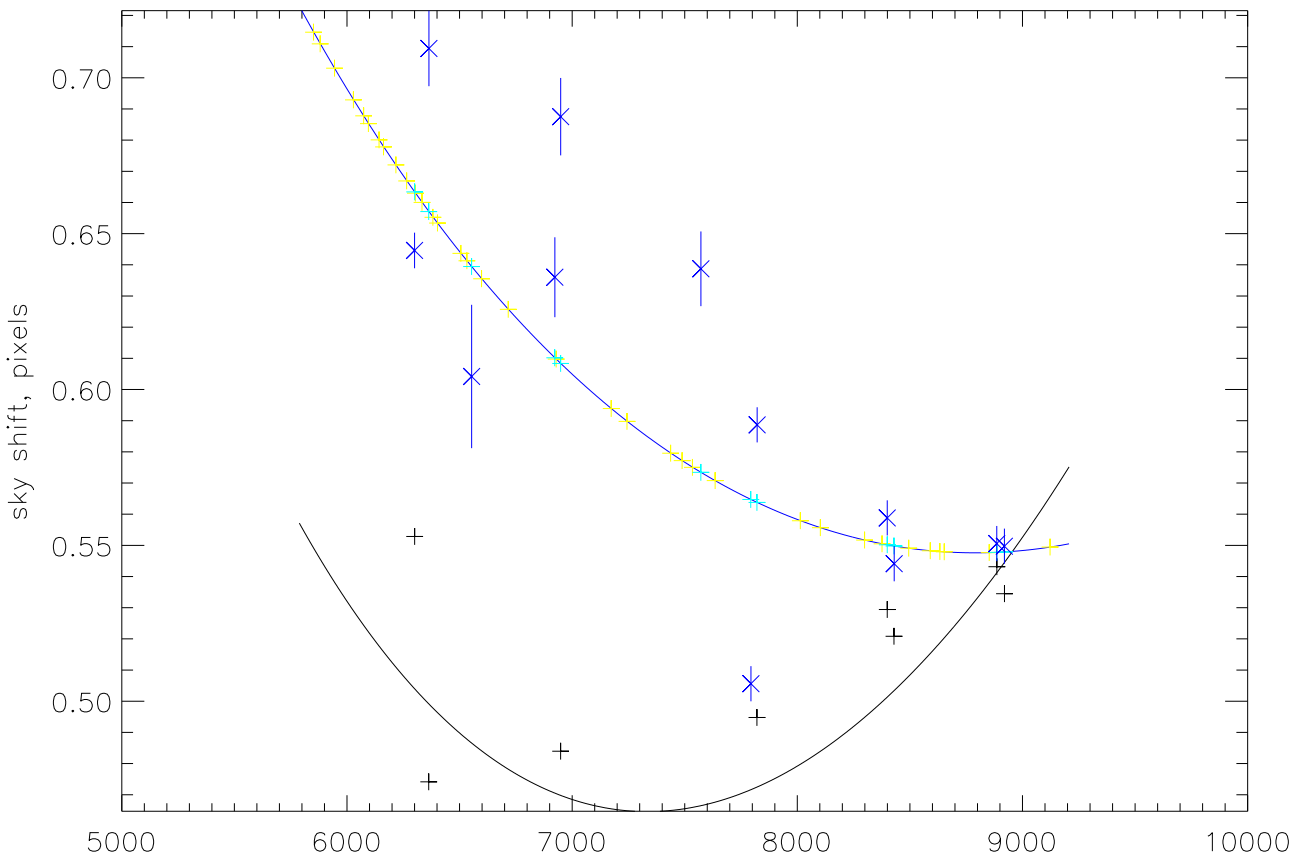

8399.1600
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

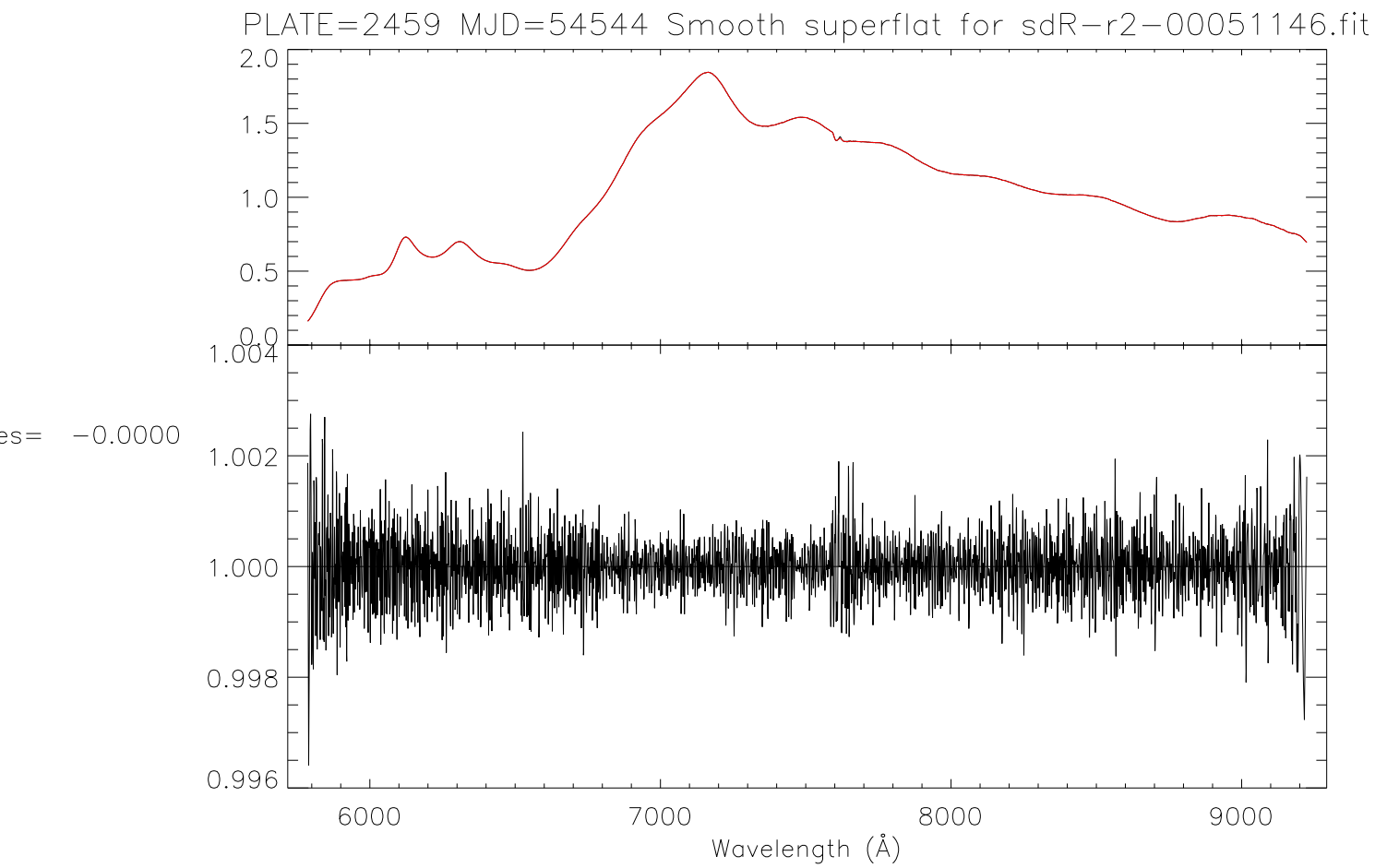

8430.1700
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

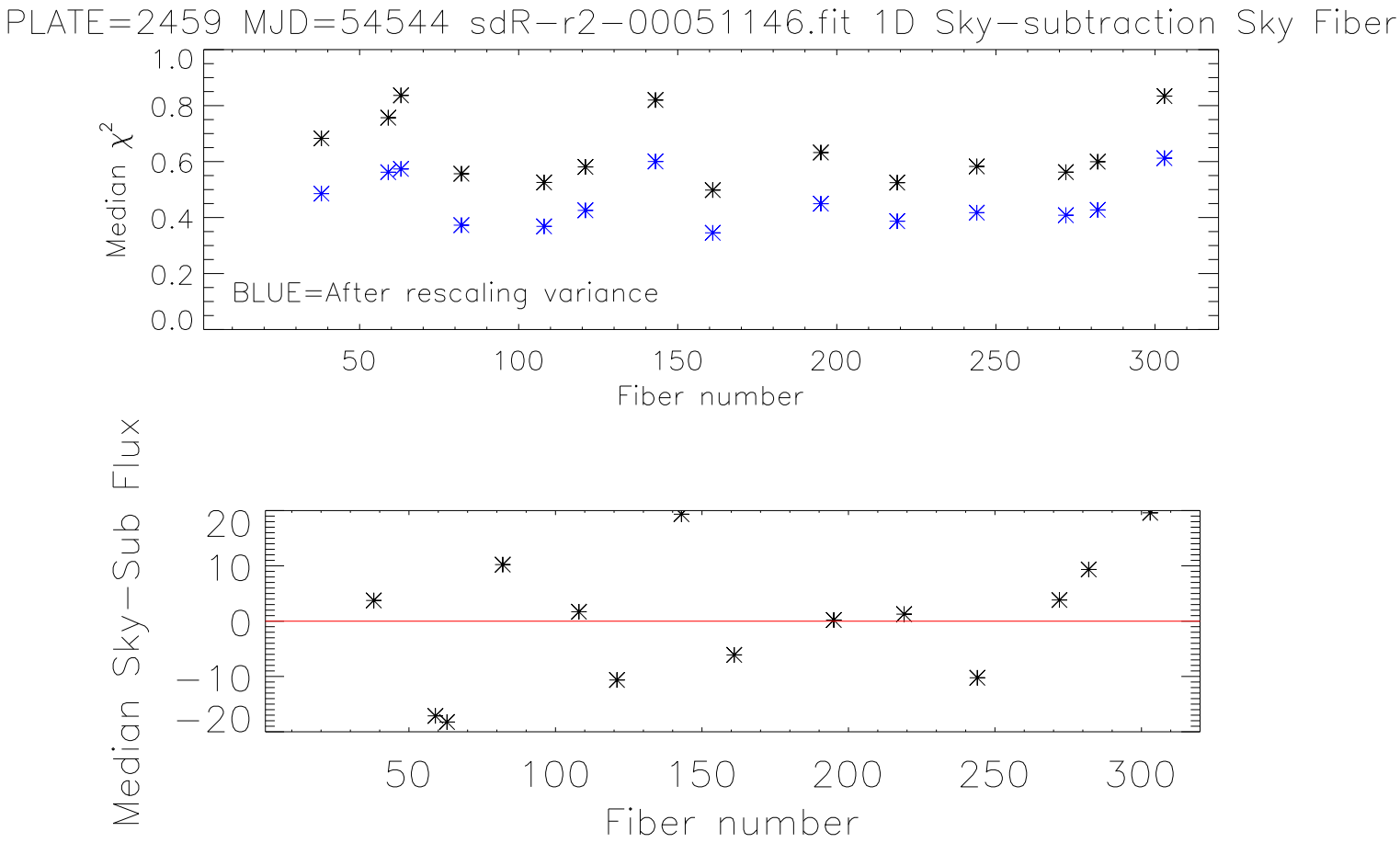

8885.8300
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

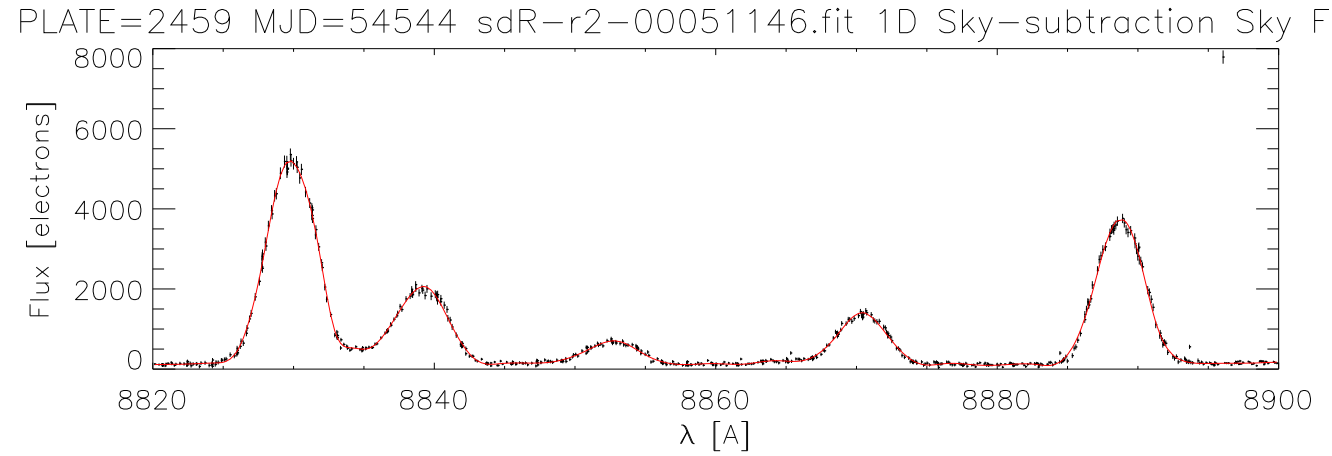

8919.6100
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

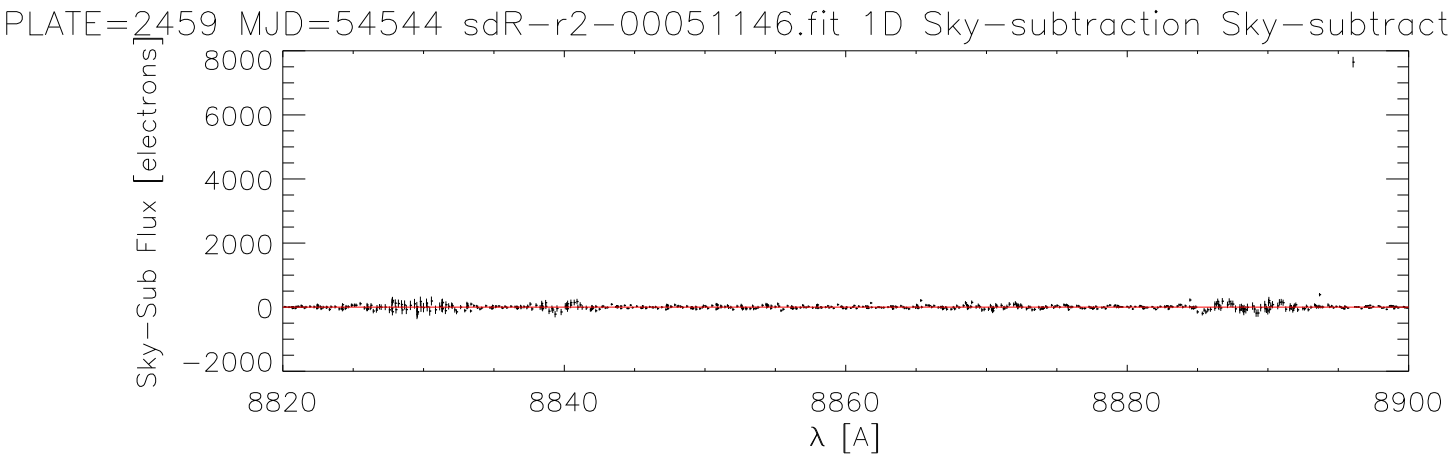

6300.3040
stdev 0.024
extra 0.84
6363.7760
stdev 0.030
extra 0.710
6553.6100
stdev 0.044
extra 0.80
6923.2100
stdev 0.029
extra 0.84
6949.0300
stdev 0.024
extra 0.84
7571.7500
stdev 0.028
extra 0.84
7794.1200
stdev 0.026
extra 0.51
7821.5100
stdev 0.024
extra 0.59
8399.1600
stdev 0.027
extra 0.56
8430.1700
stdev 0.016
extra 0.54
8885.8300
stdev 0.016
extra 0.55
8919.6100
stdev 0.012
extra 0.55
meas − pred, pix
mfb2 16
mfb1 16
mfb2 15
mfb2 14

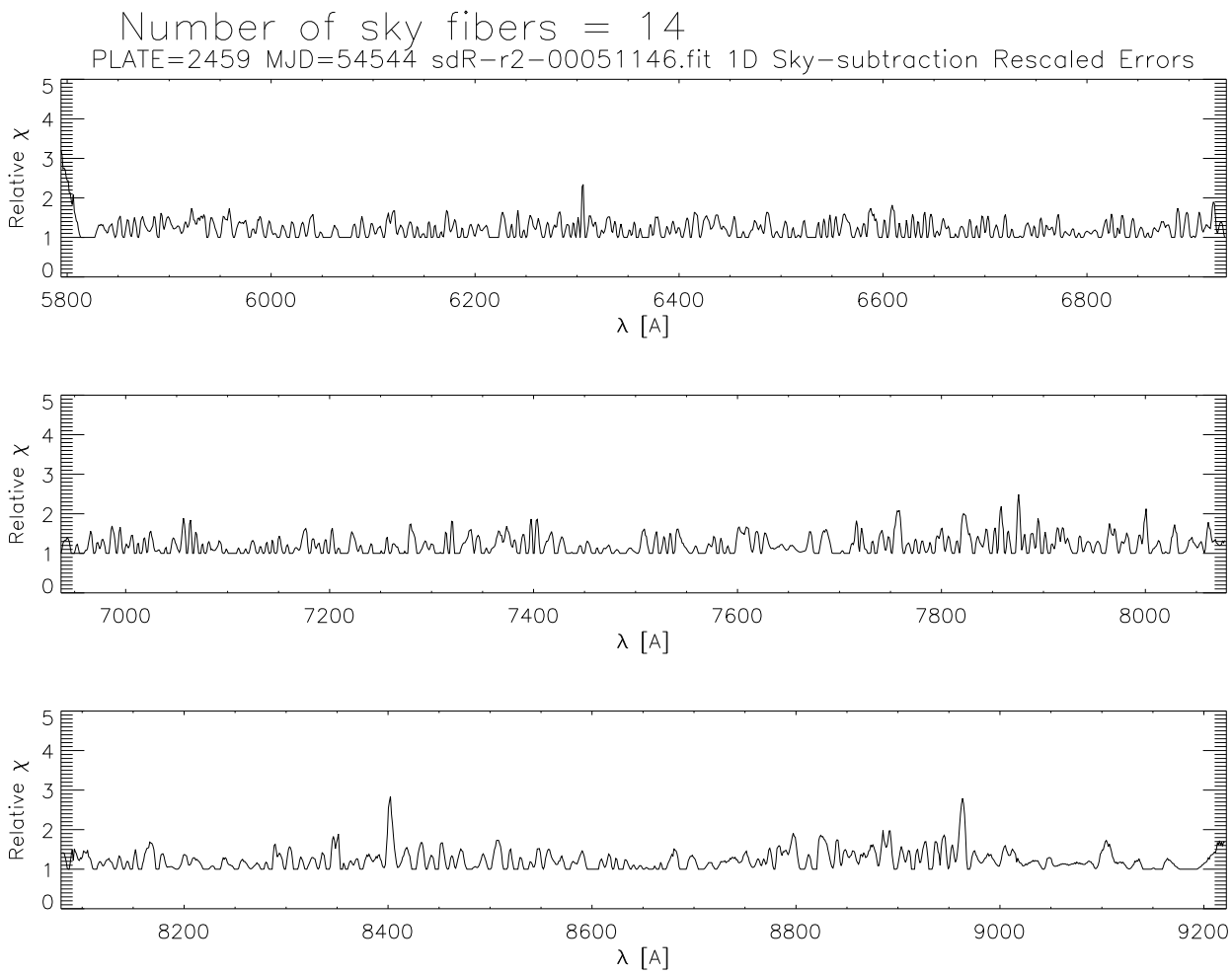

sky shift, pixels
0.70
0.65
0.60
0.55
0.50
5000
6000
7000
8000
9000
10000

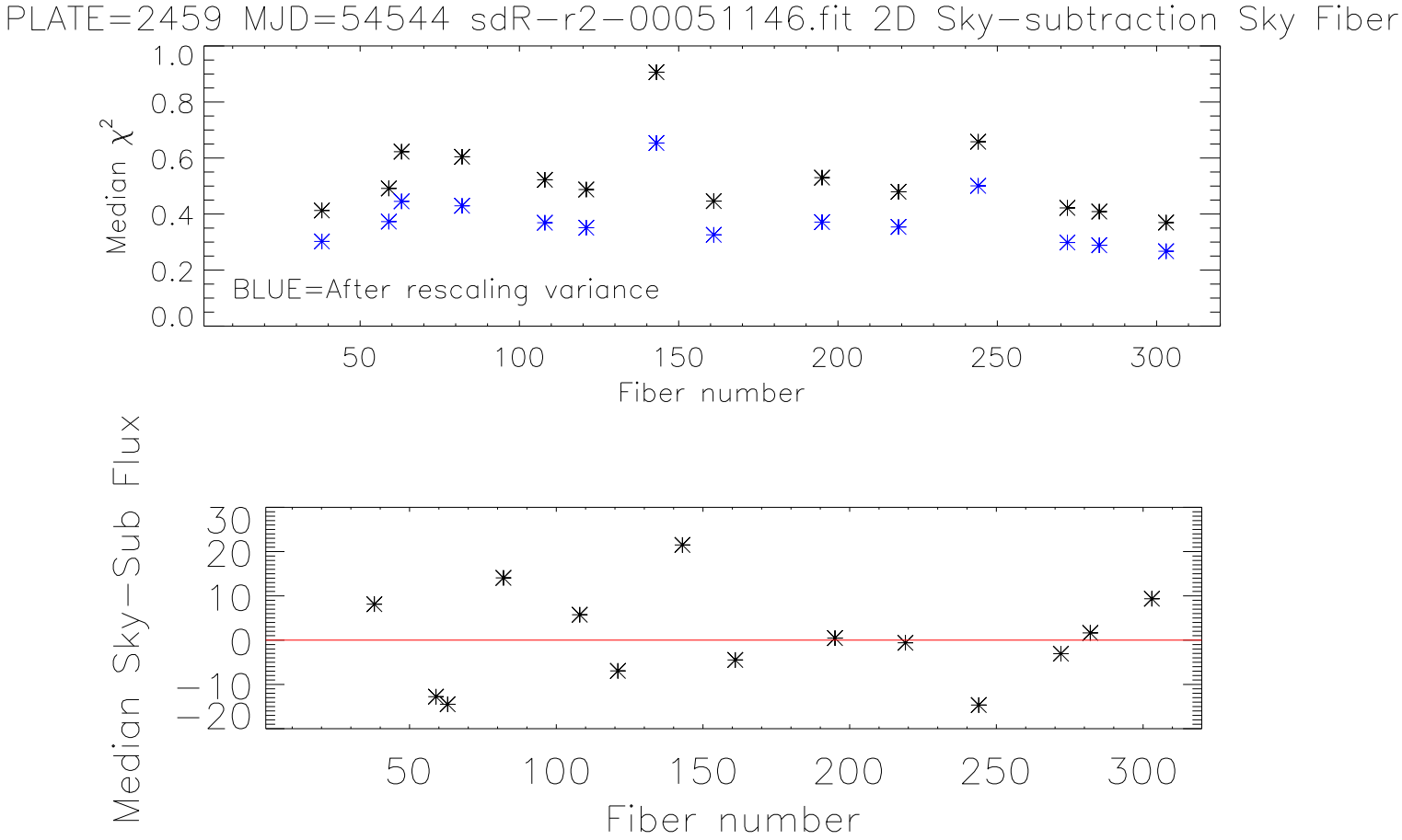

PLATE=2459 MJD=54544 Smooth superflat for sdR-r2-00051146.fit
2.0
1.5
1.0
0.5
0.0
1.004
1.002
1.000
0.998
0.996
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

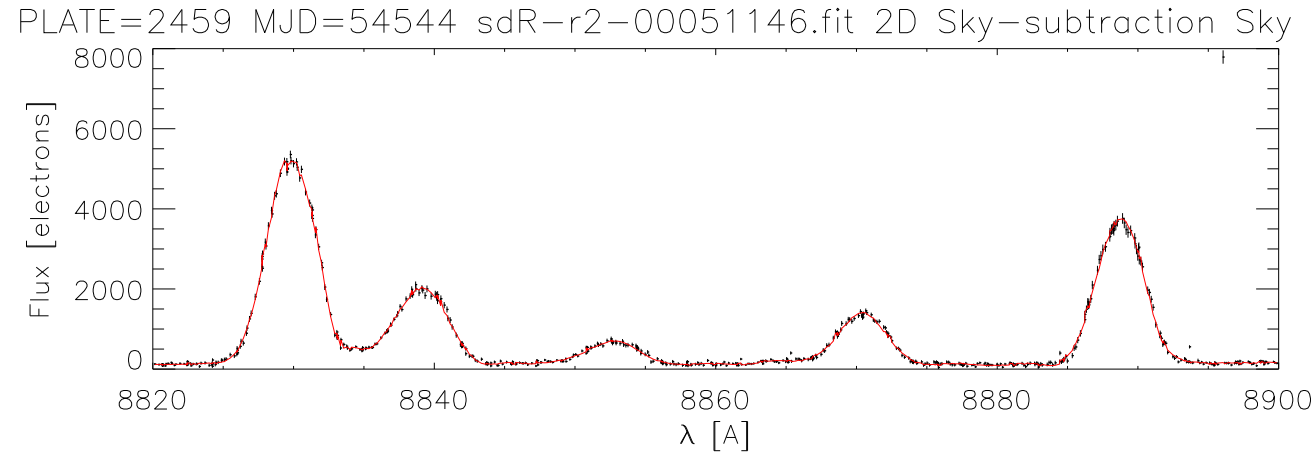

PLATE=2459 MJD=54544 sdR-r2-00051146.fit 1D Sky-subtraction Sky Fibers
Median χ^2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
10
0
-10
-20
50
100
150
200
250
300
Fiber number

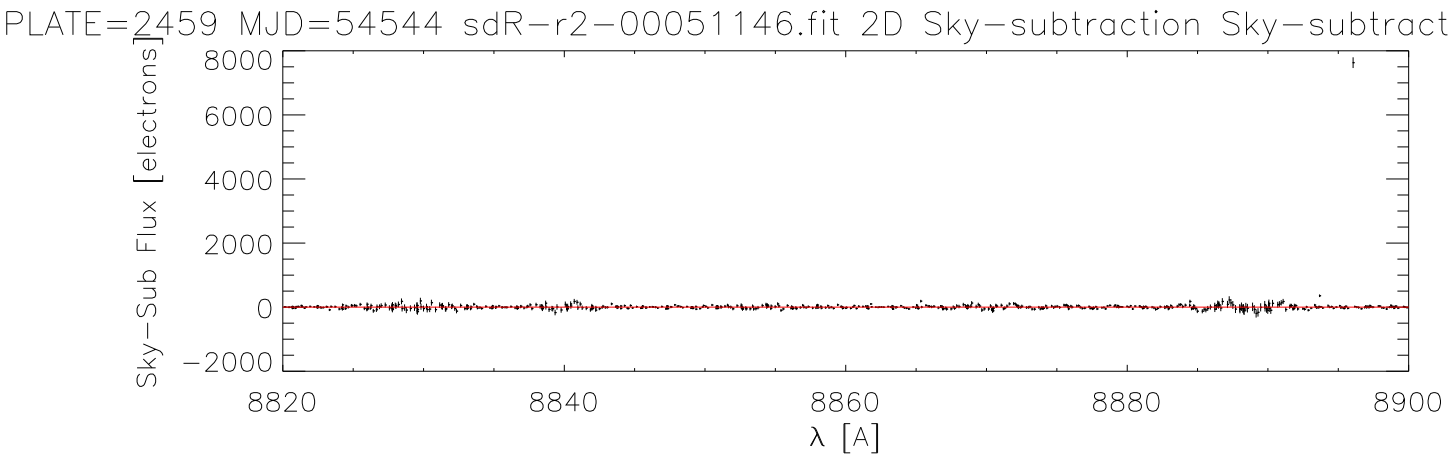

PLATE=2459 MJD=54544 sdR-r2-00051146.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

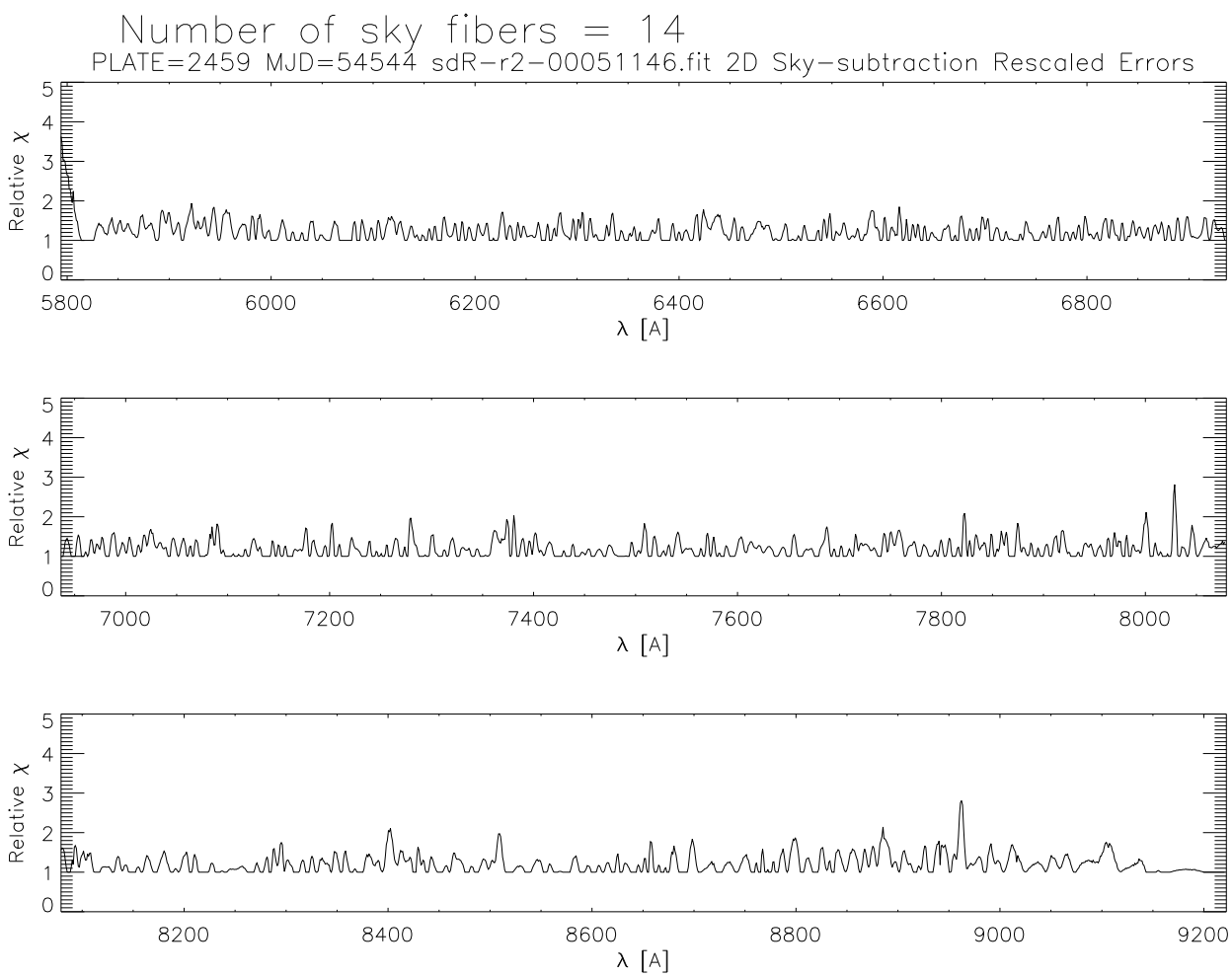

PLATE=2459 MJD=54544 sdR-r2-00051146.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
8000
6000
4000
2000
0
-2000
8820
8840
8860
8880
8900
λ [A]

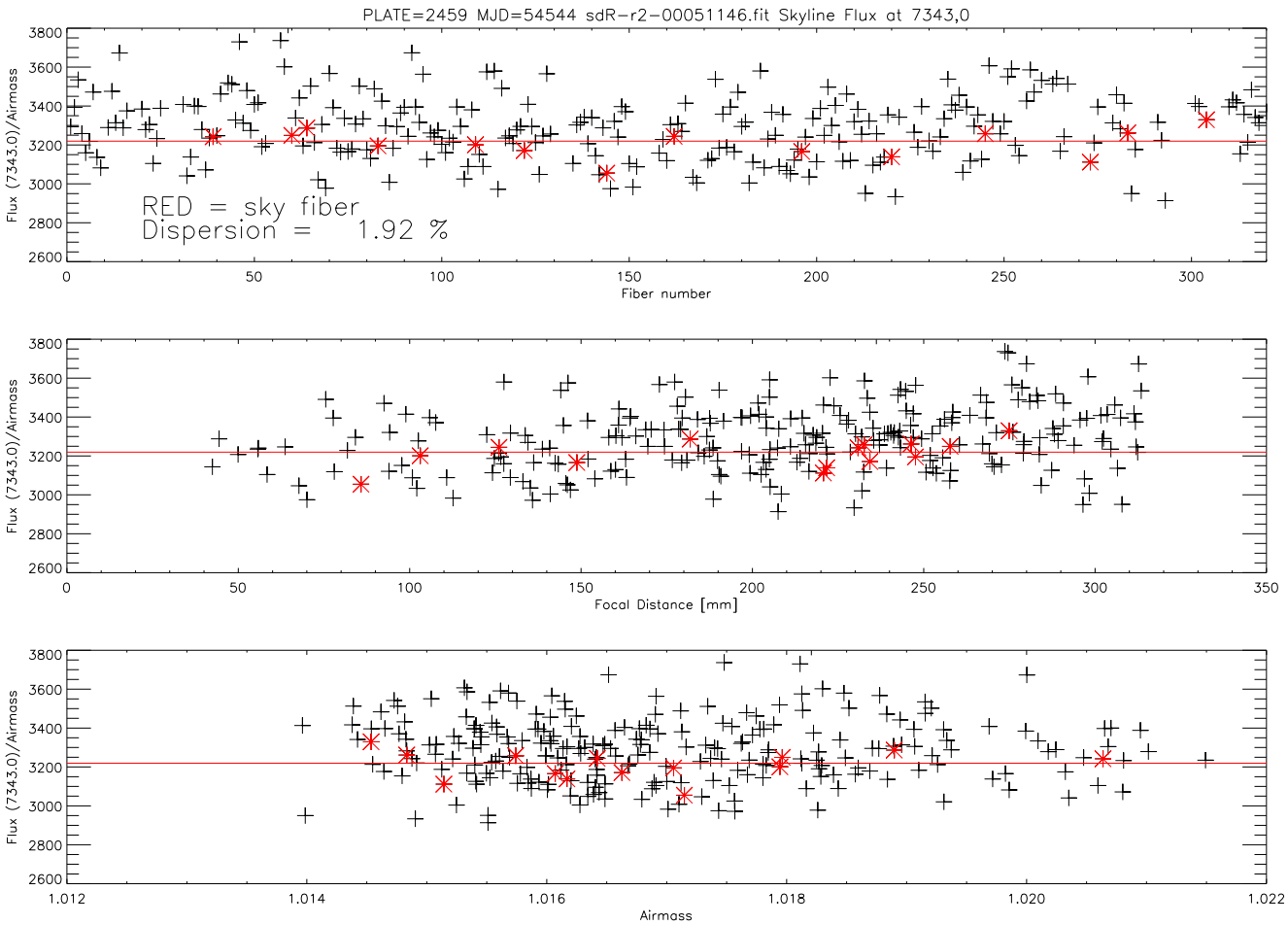

Number of sky fibers = 14
PLATE=2459 MJD=54544 sdR-r2-00051146.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

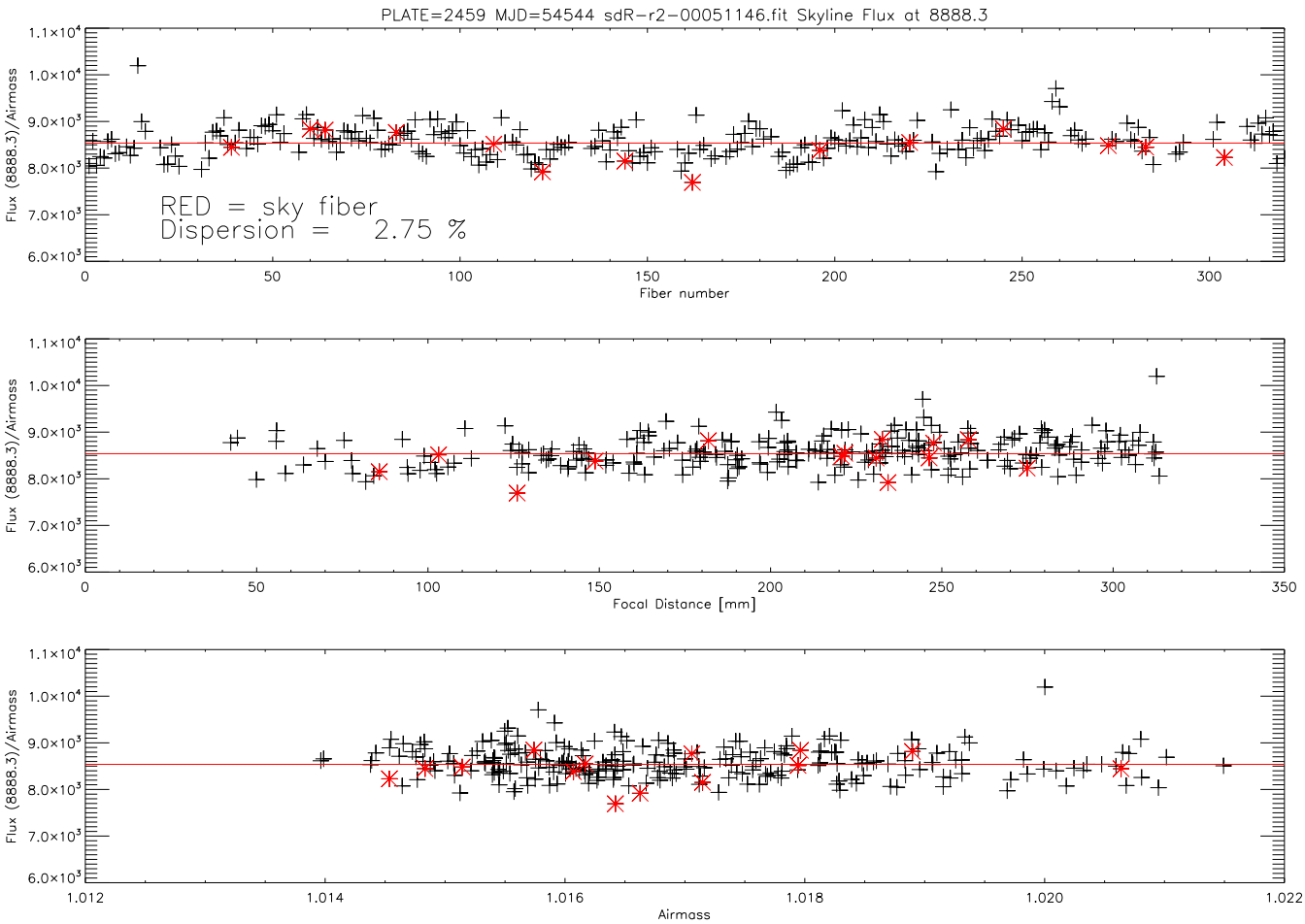

PLATE=2459 MJD=54544 sdR-r2-00051146.fit 2D Sky-subtraction Sky Fibers
Median χ^2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
30
20
10
0
-10
-20
50
100
150
200
250
300
Fiber number


PLATE=2459 MJD=54544 sdR-r2-00051146.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]


PLATE=2459 MJD=54544 sdR-r2-00051146.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
8000
6000
4000
2000
0
-2000
8820
8840
8860
8880
8900
λ [A]


Number of sky fibers = 14
PLATE=2459 MJD=54544 sdR-r2-00051146.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=2459 MJD=54544 sdR-r2-00051146.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 1.92 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass


PLATE=2459 MJD=54544 sdR-r2-00051146.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.75 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass