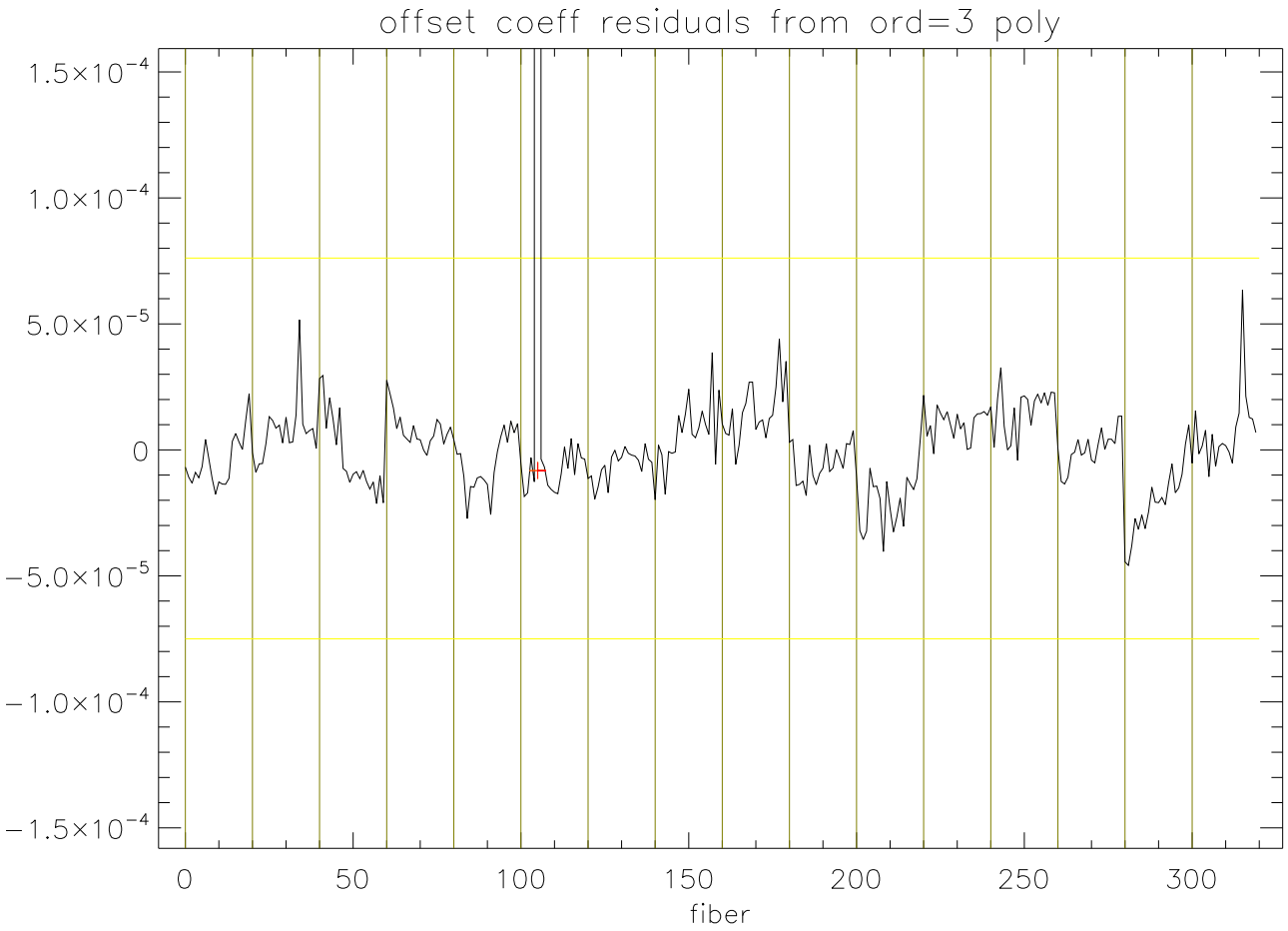
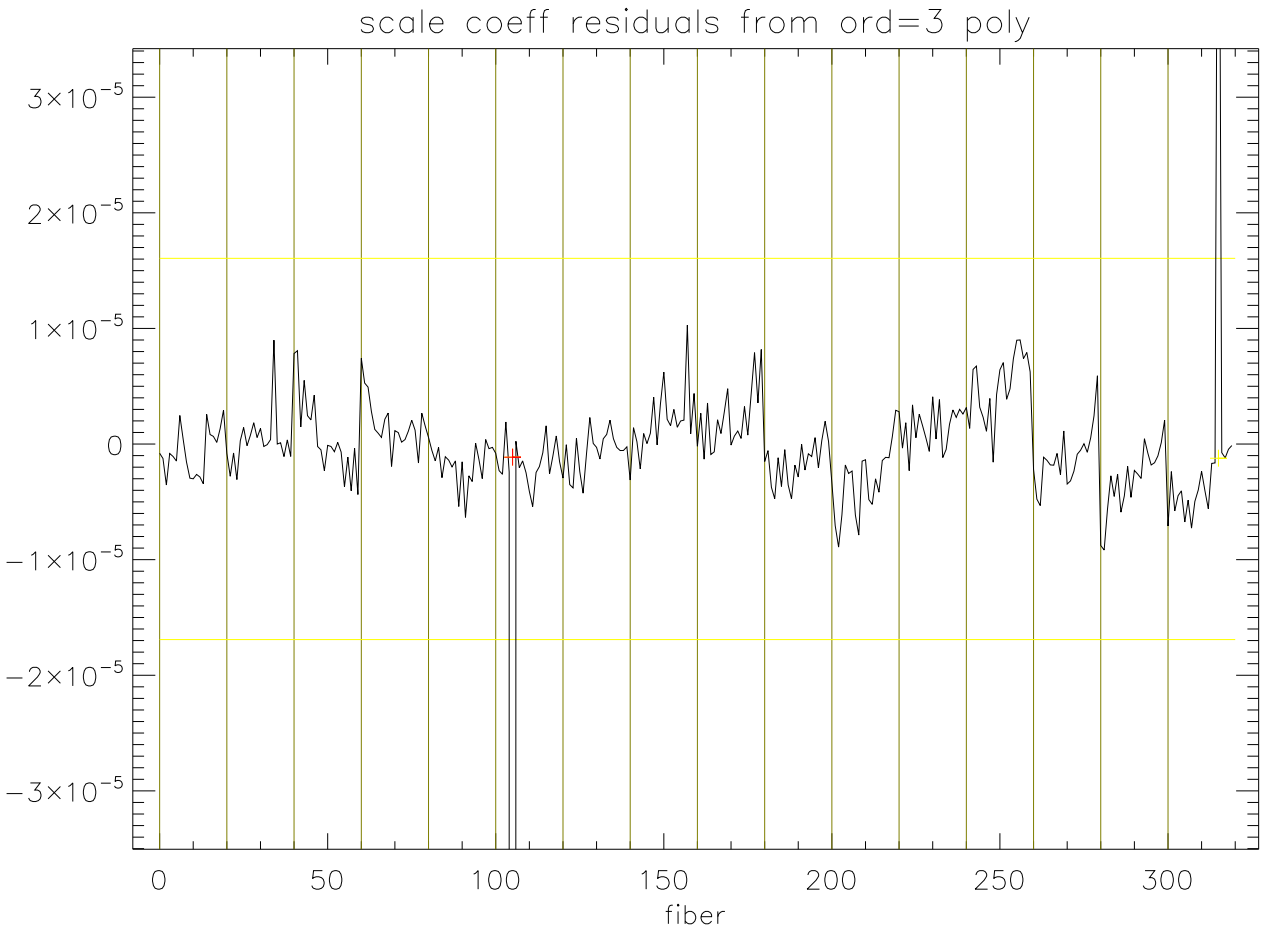
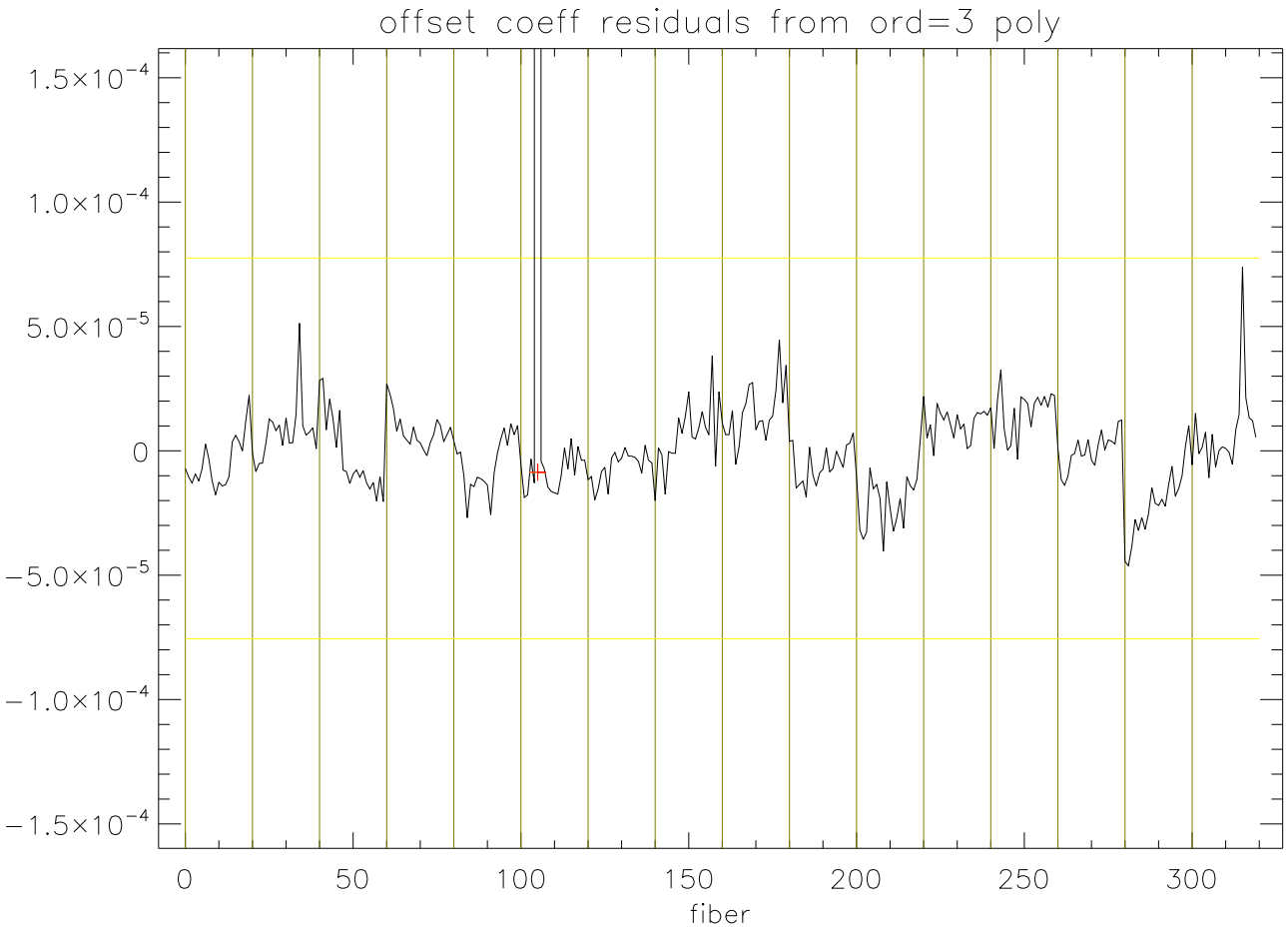
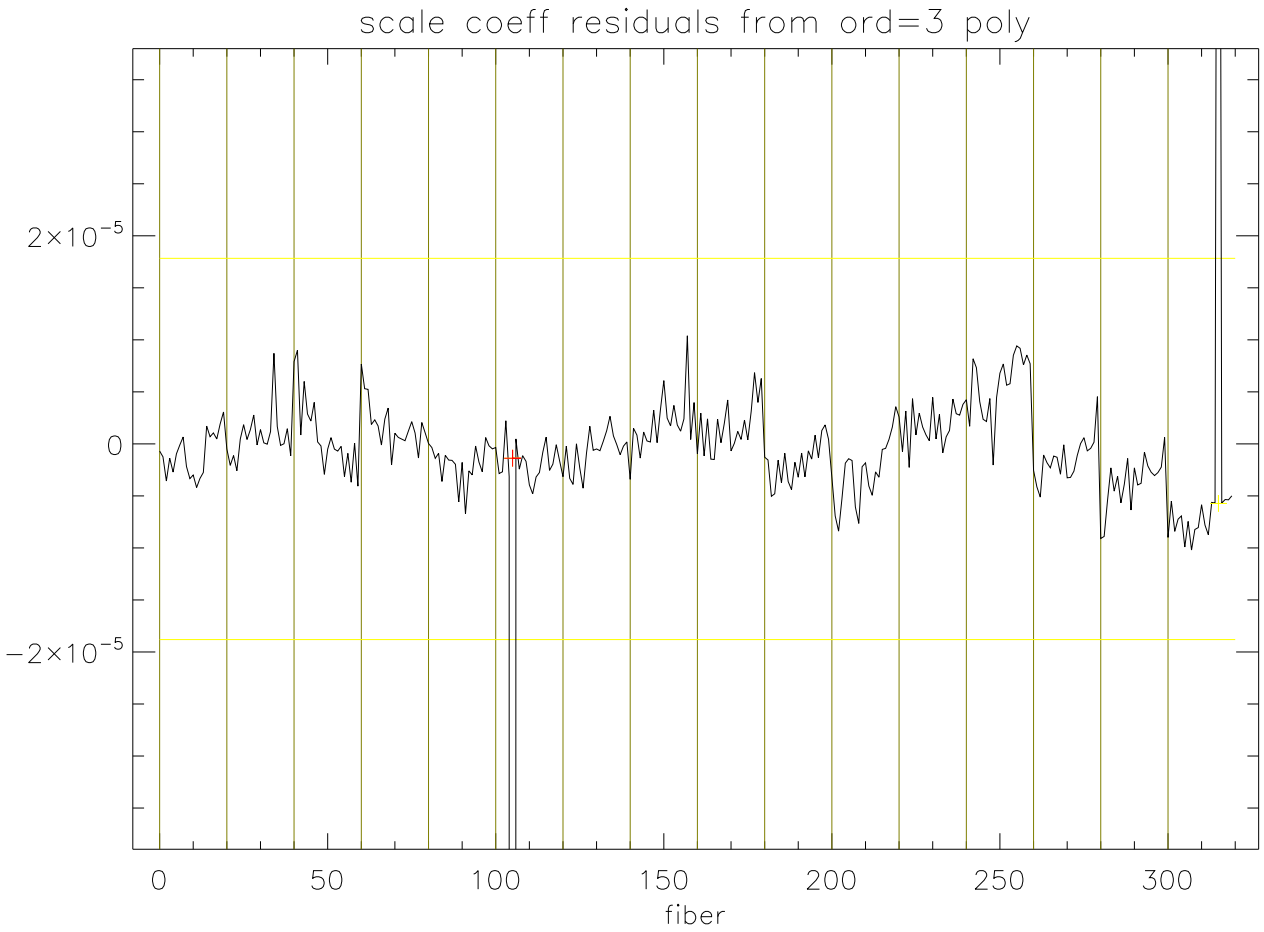
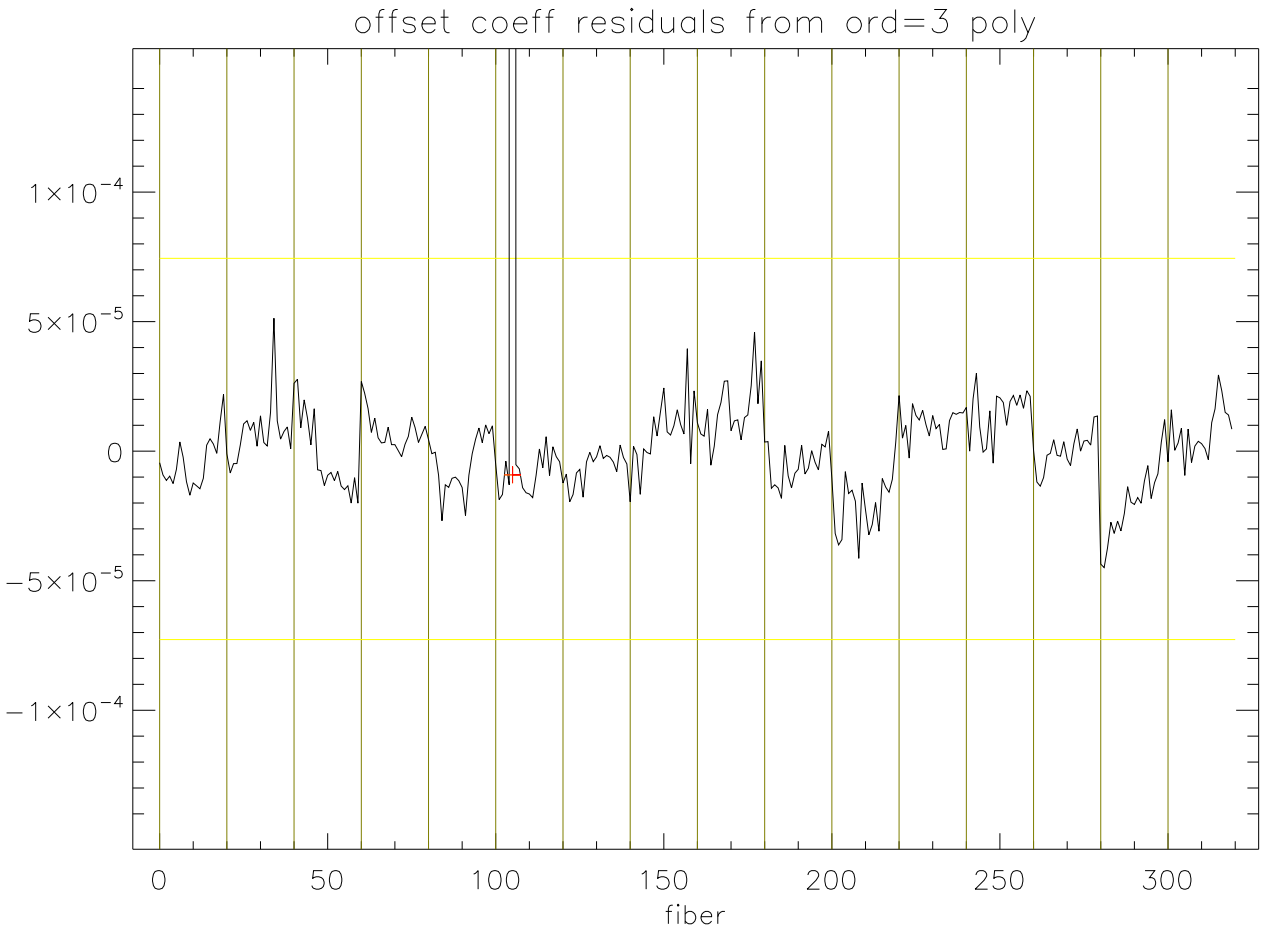
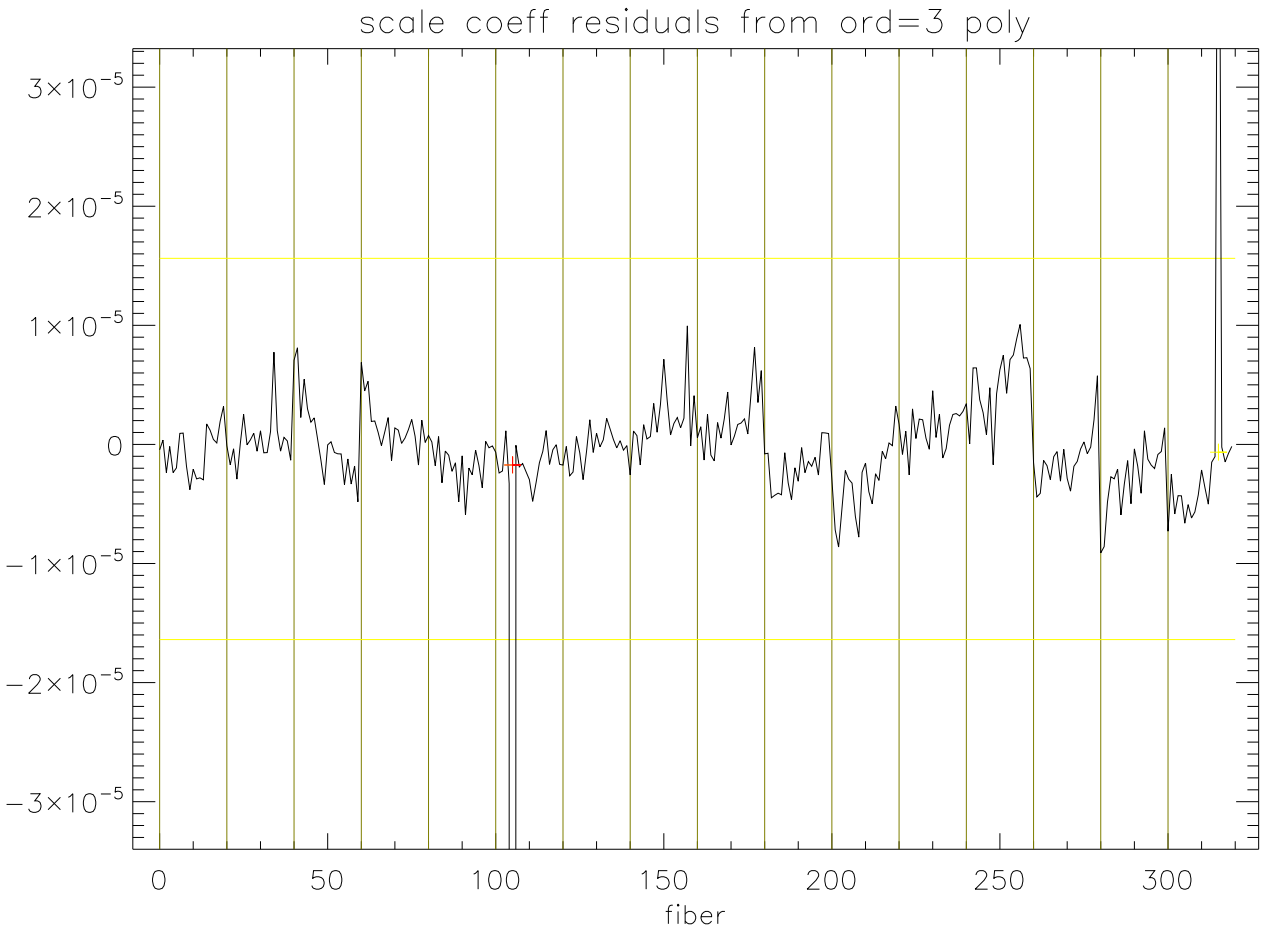

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

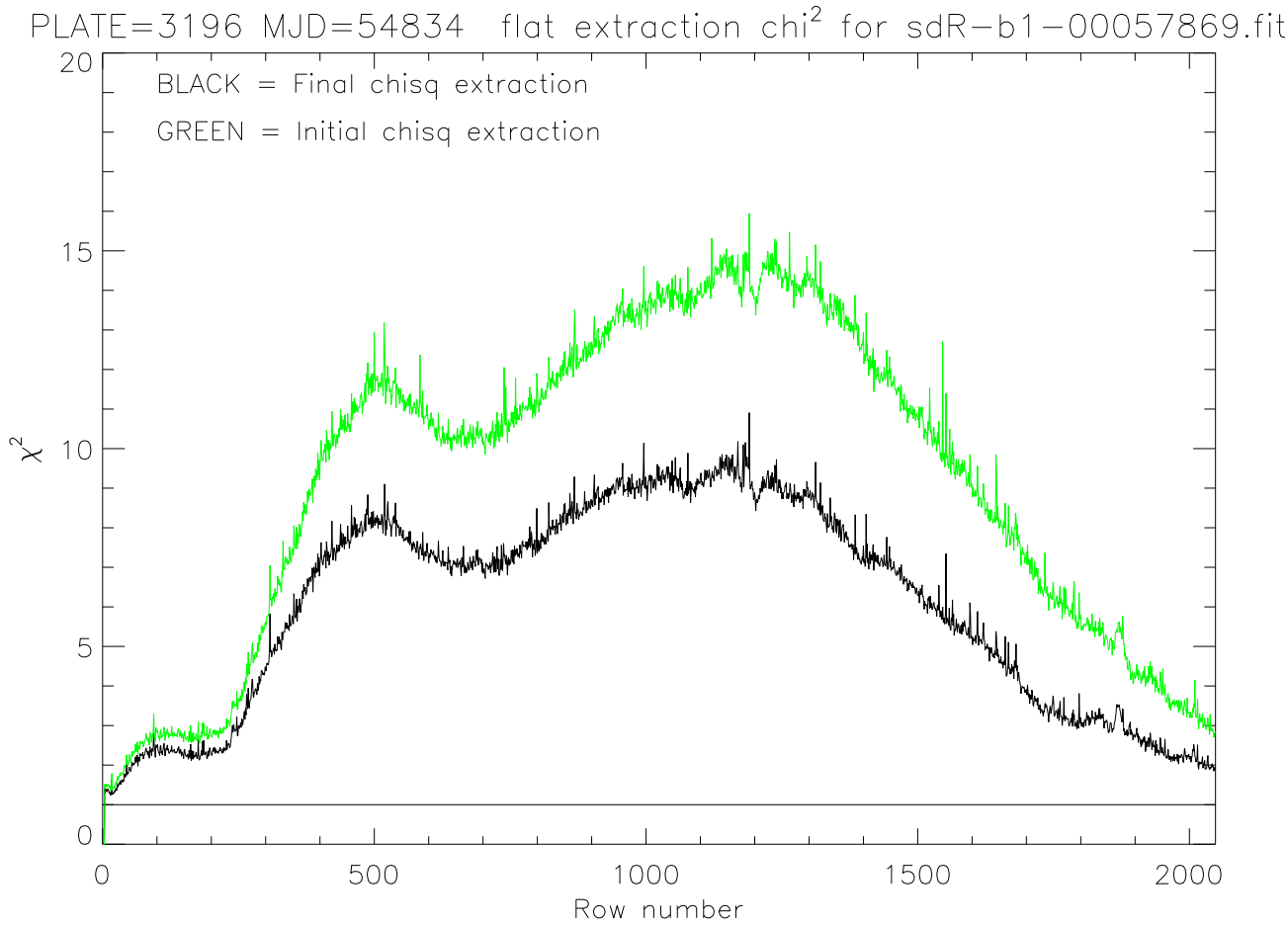

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

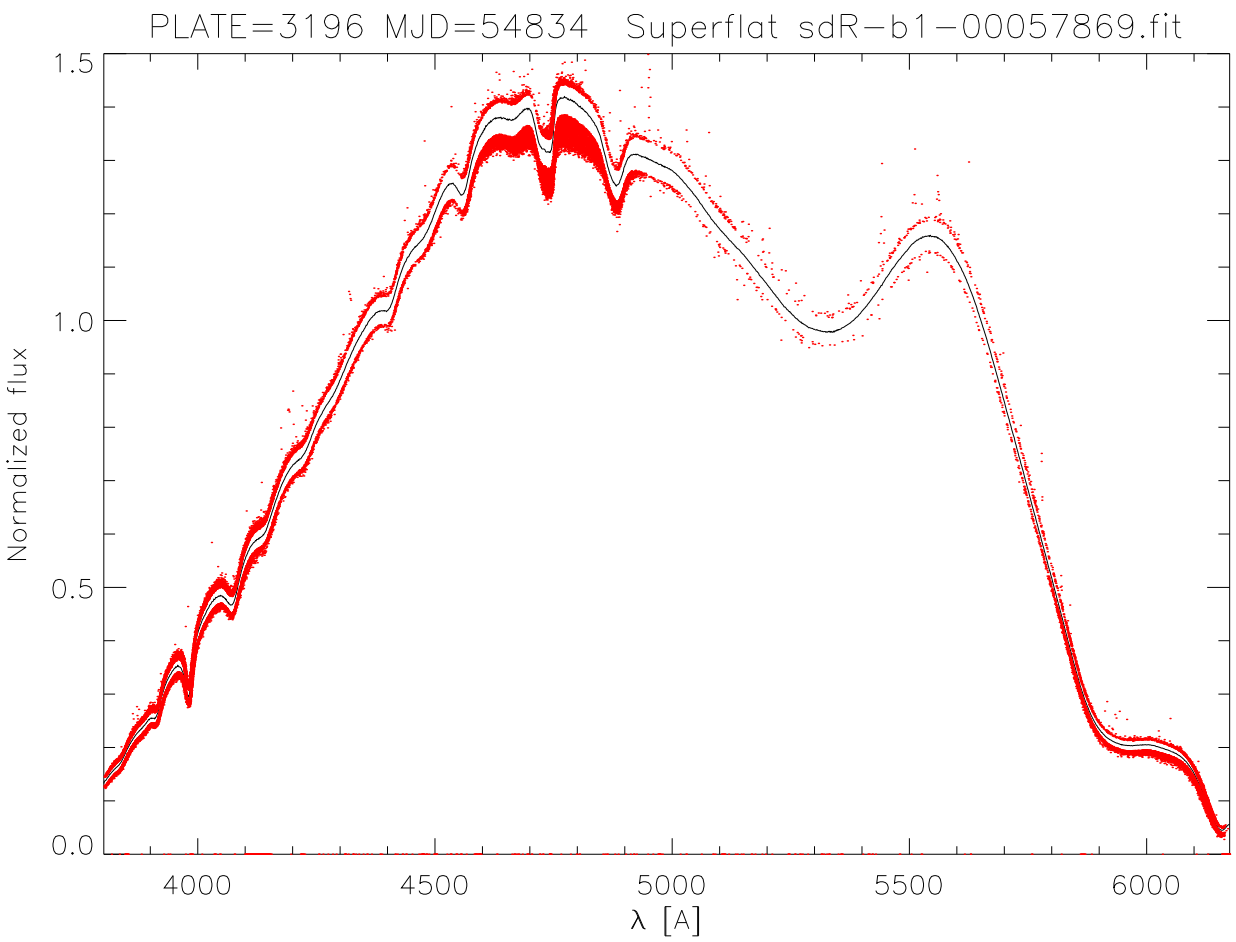

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

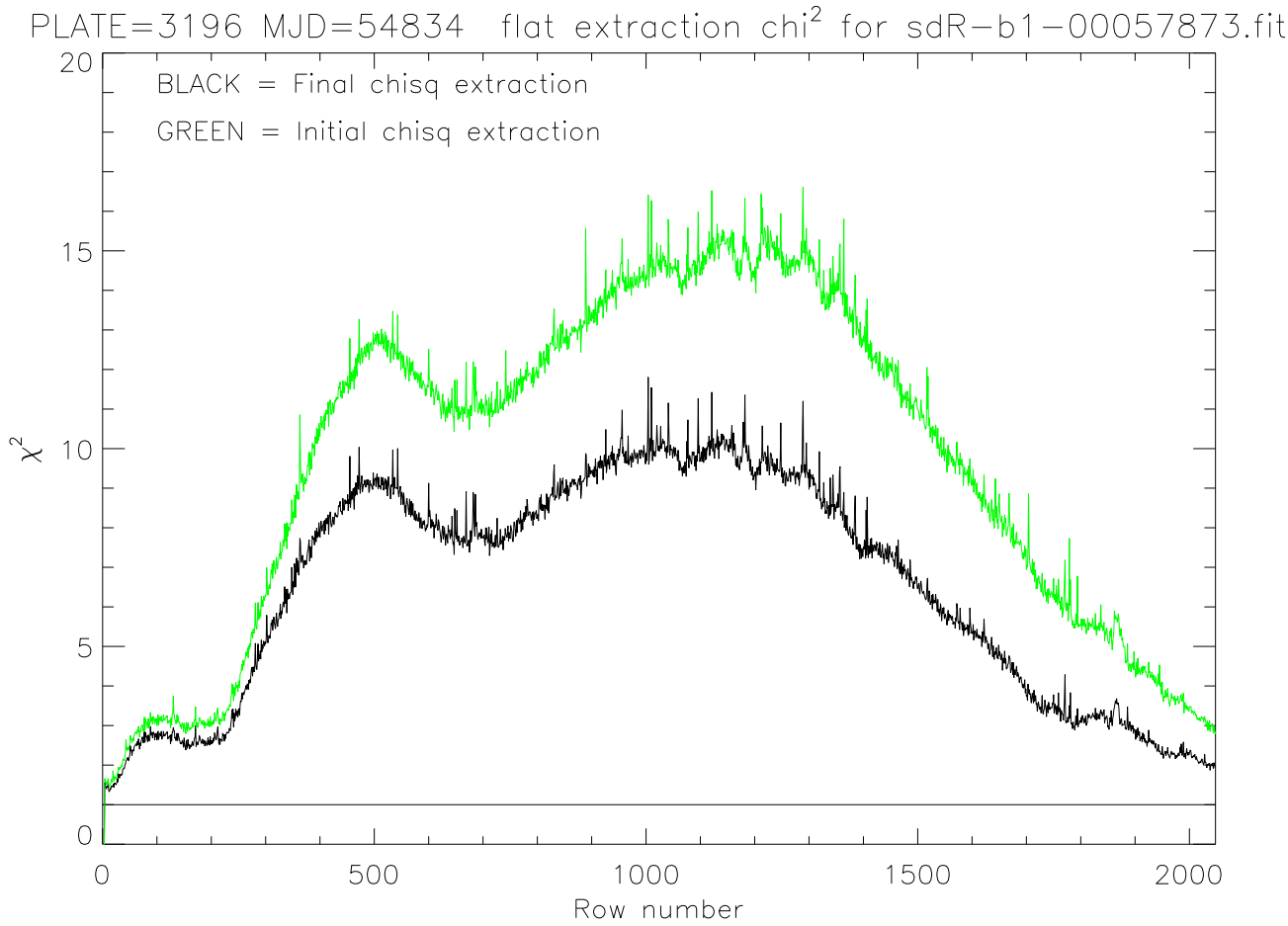

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

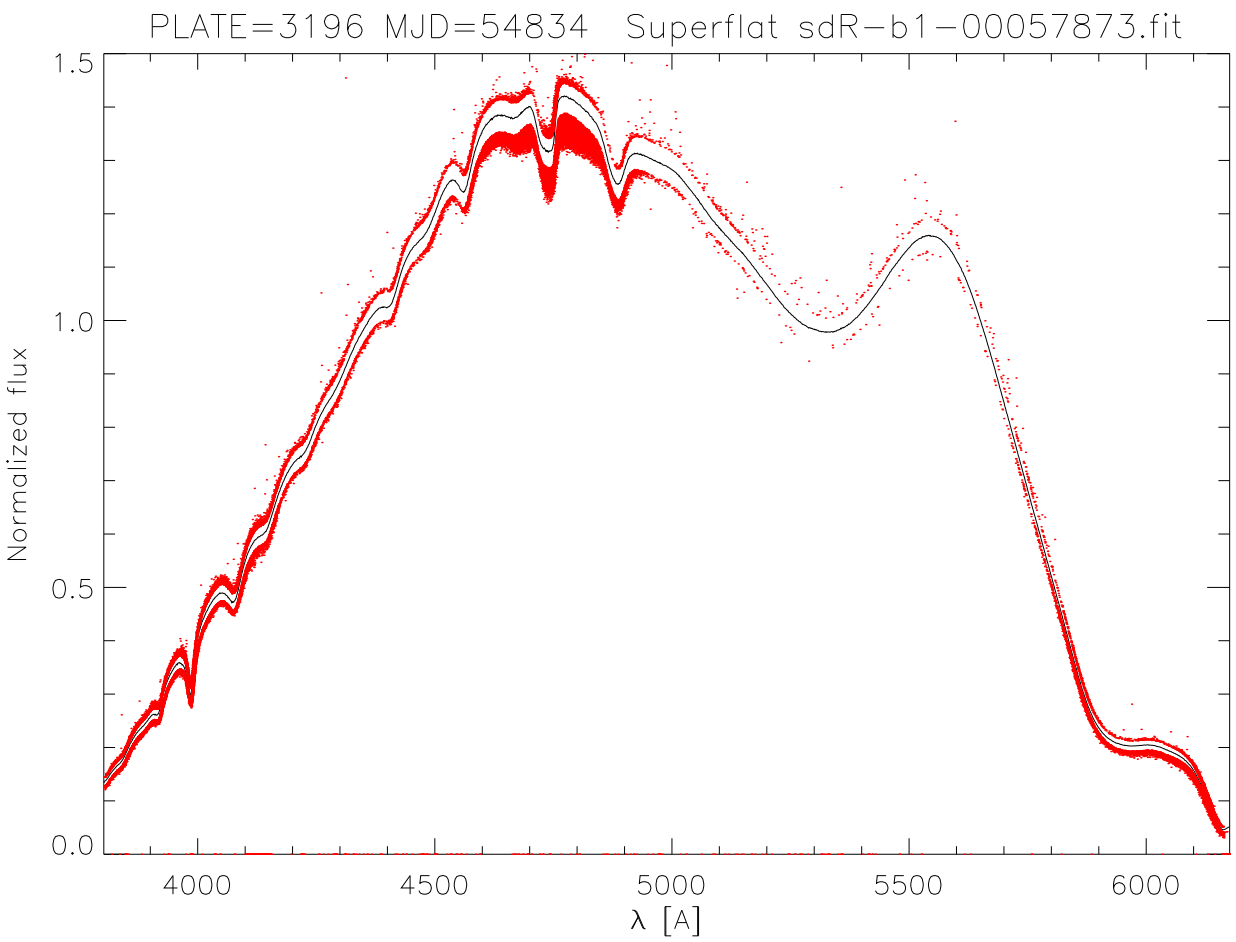

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

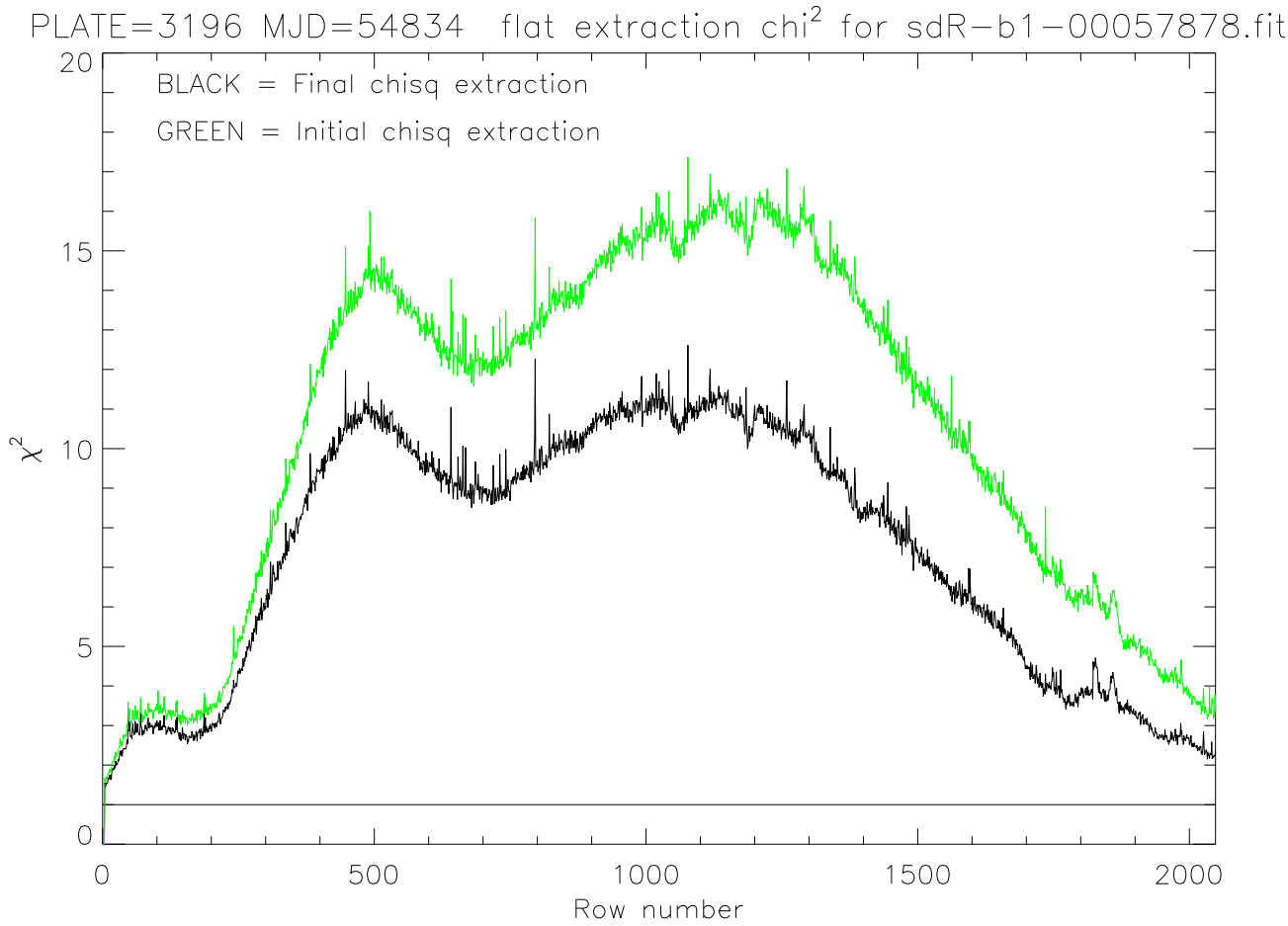

scale coeff residuals from ord=3 poly
3×10^-5
2×10^-5
1×10^-5
0
−1×10^-5
−2×10^-5
−3×10^-5
0
50
100
150
200
250
300
fiber

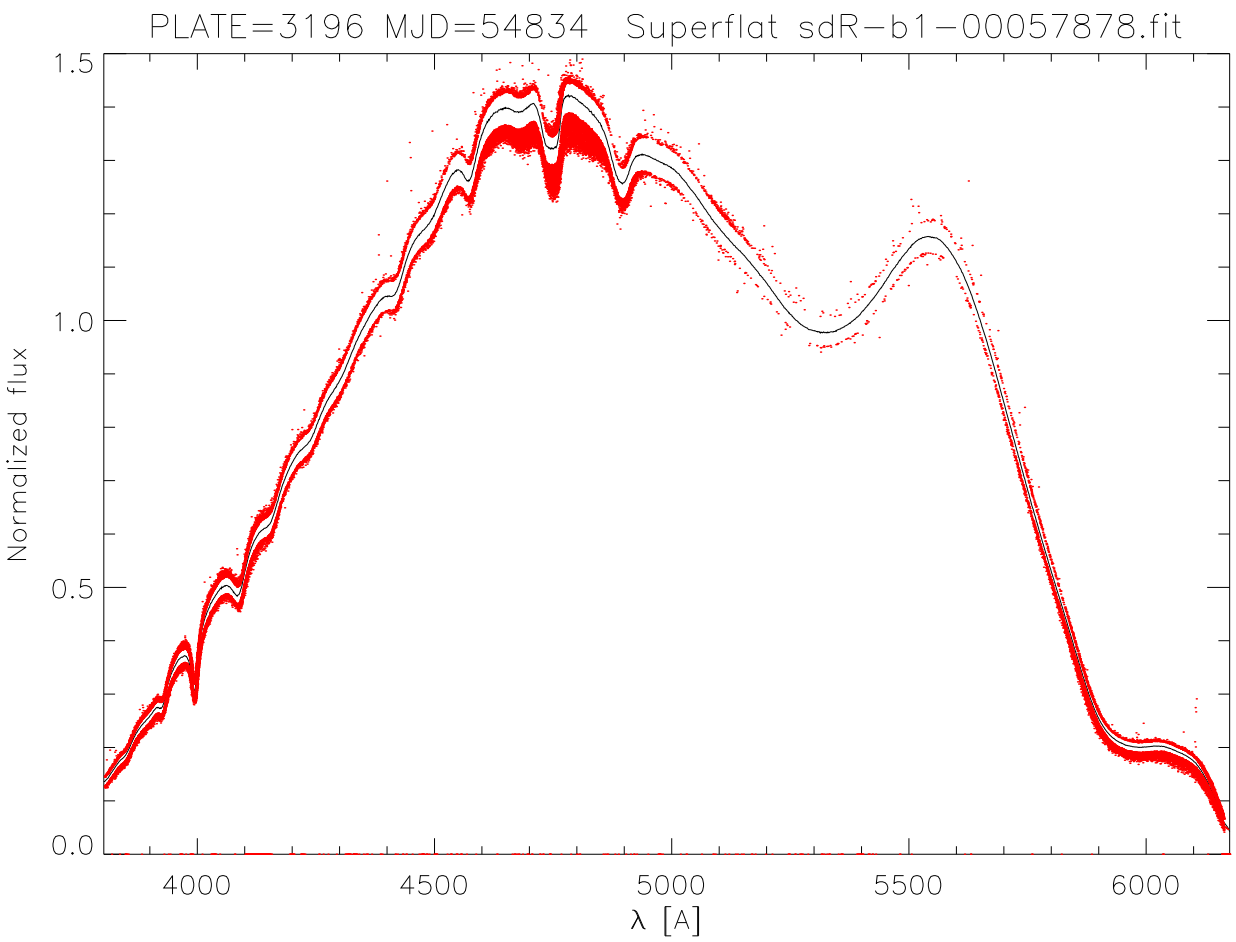

PLATE=3196 MJD=54834 flat extraction chi^2 for sdR−b1−00057869.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
5
10
15
20
0
500
1000
1500
2000

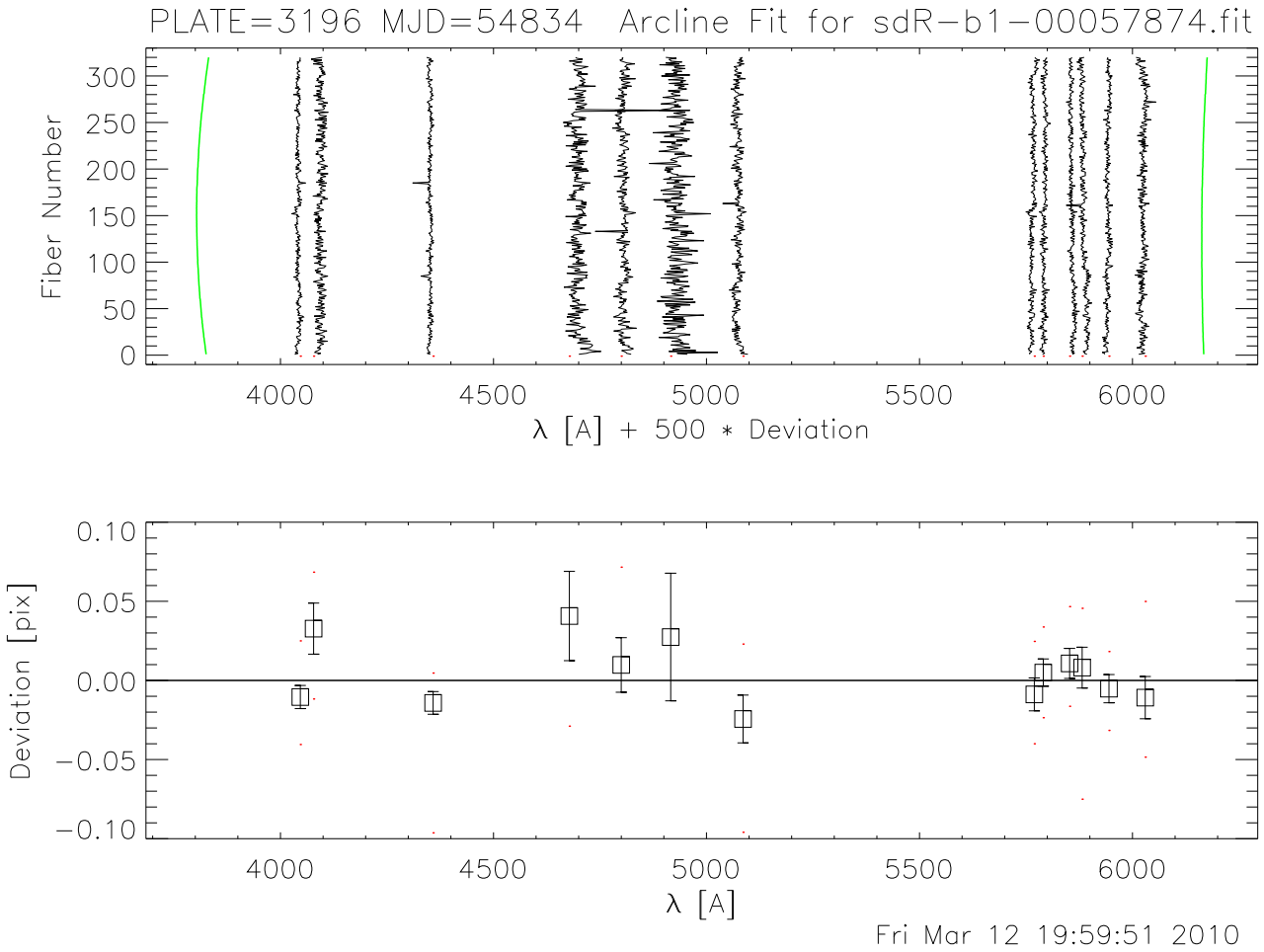

PLATE=3196 MJD=54834 Superflat sdR-b1-00057869.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

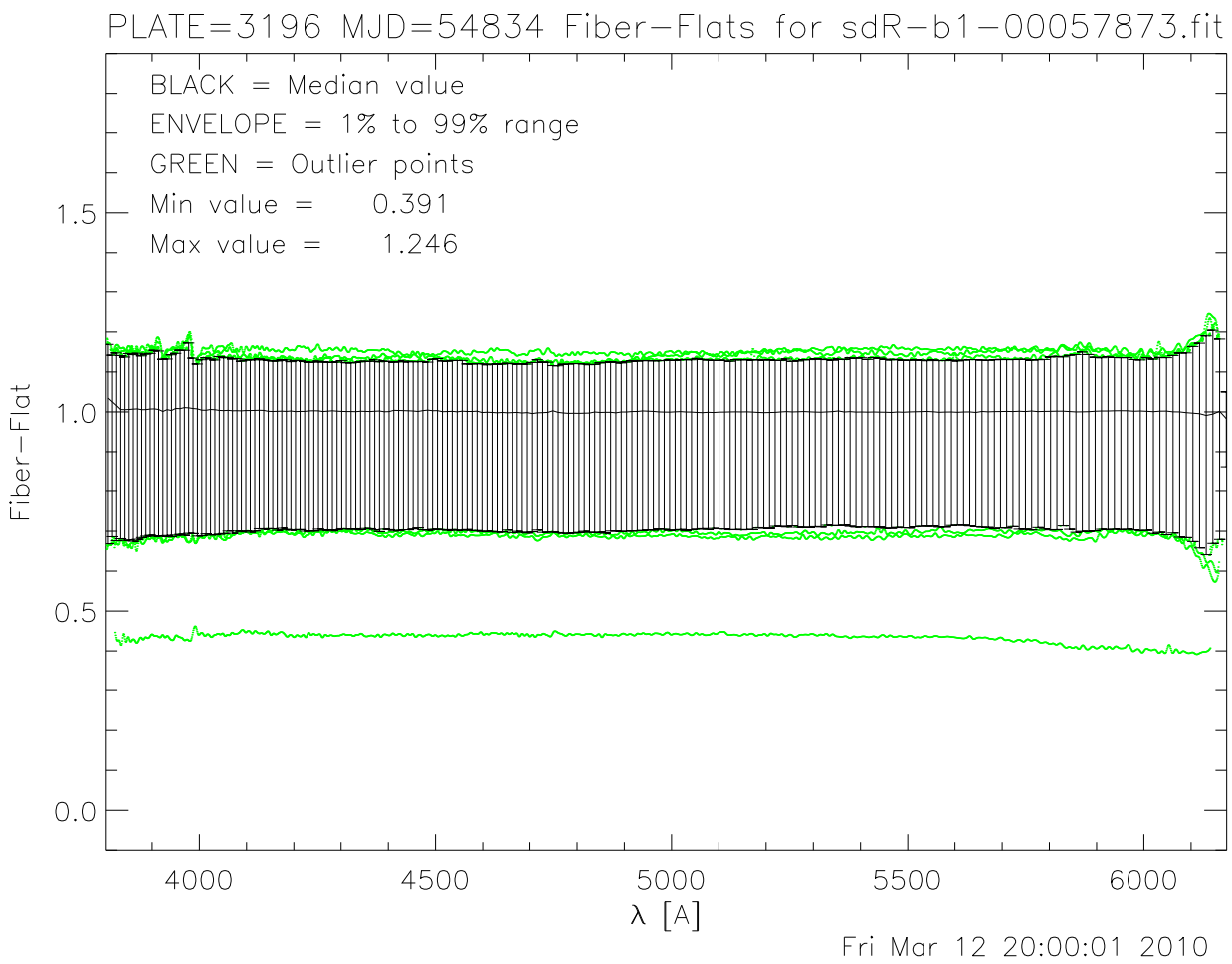

PLATE=3196 MJD=54834 flat extraction chi^2 for sdR−b1−00057873.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
5
10
15
20
0
500
1000
1500
2000

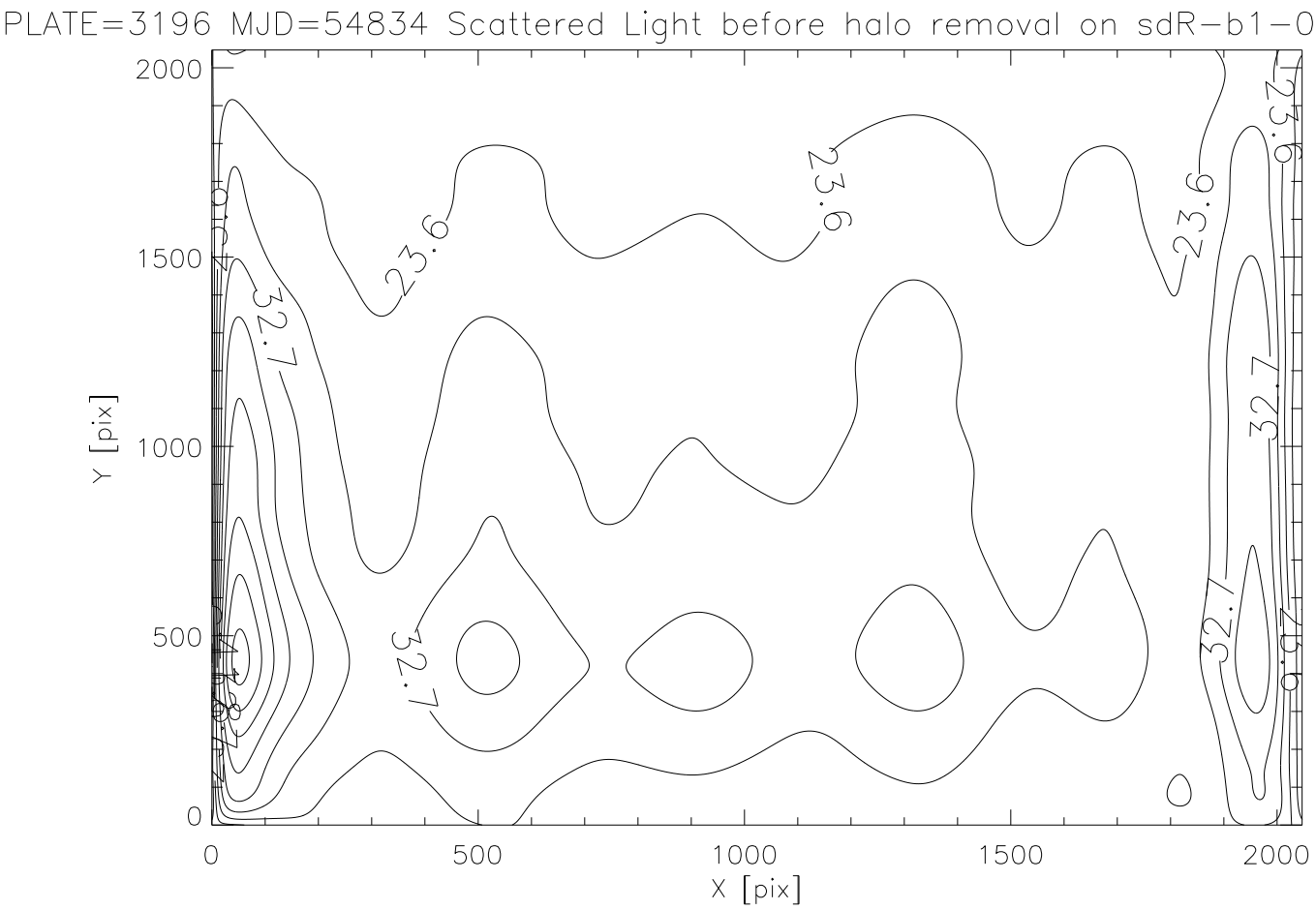

PLATE=3196 MJD=54834 Superflat sdR-b1-00057873.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

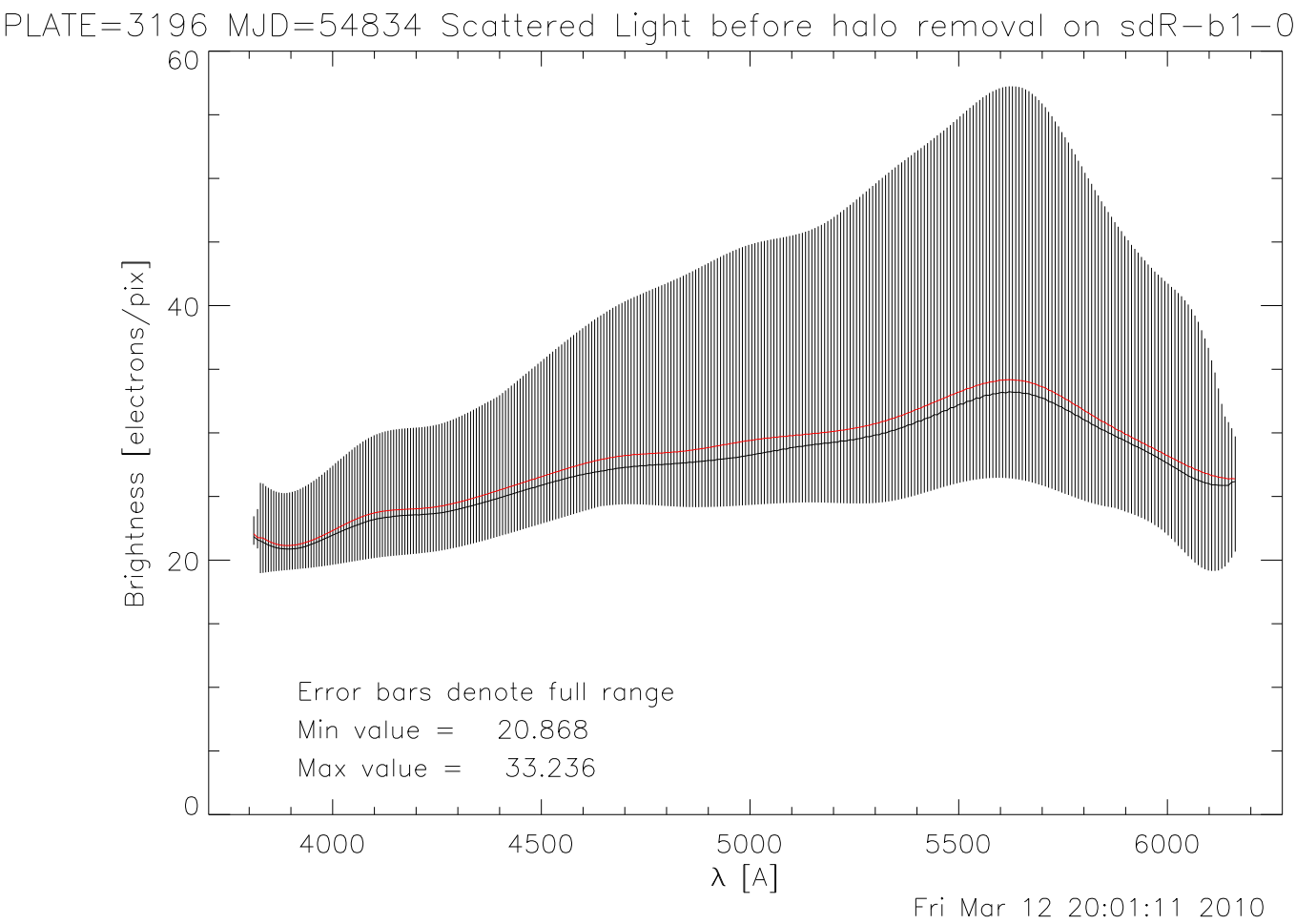

PLATE=3196 MJD=54834 flat extraction chi^2 for sdR−b1−00057878.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
5
10
15
20
0
500
1000
1500
2000

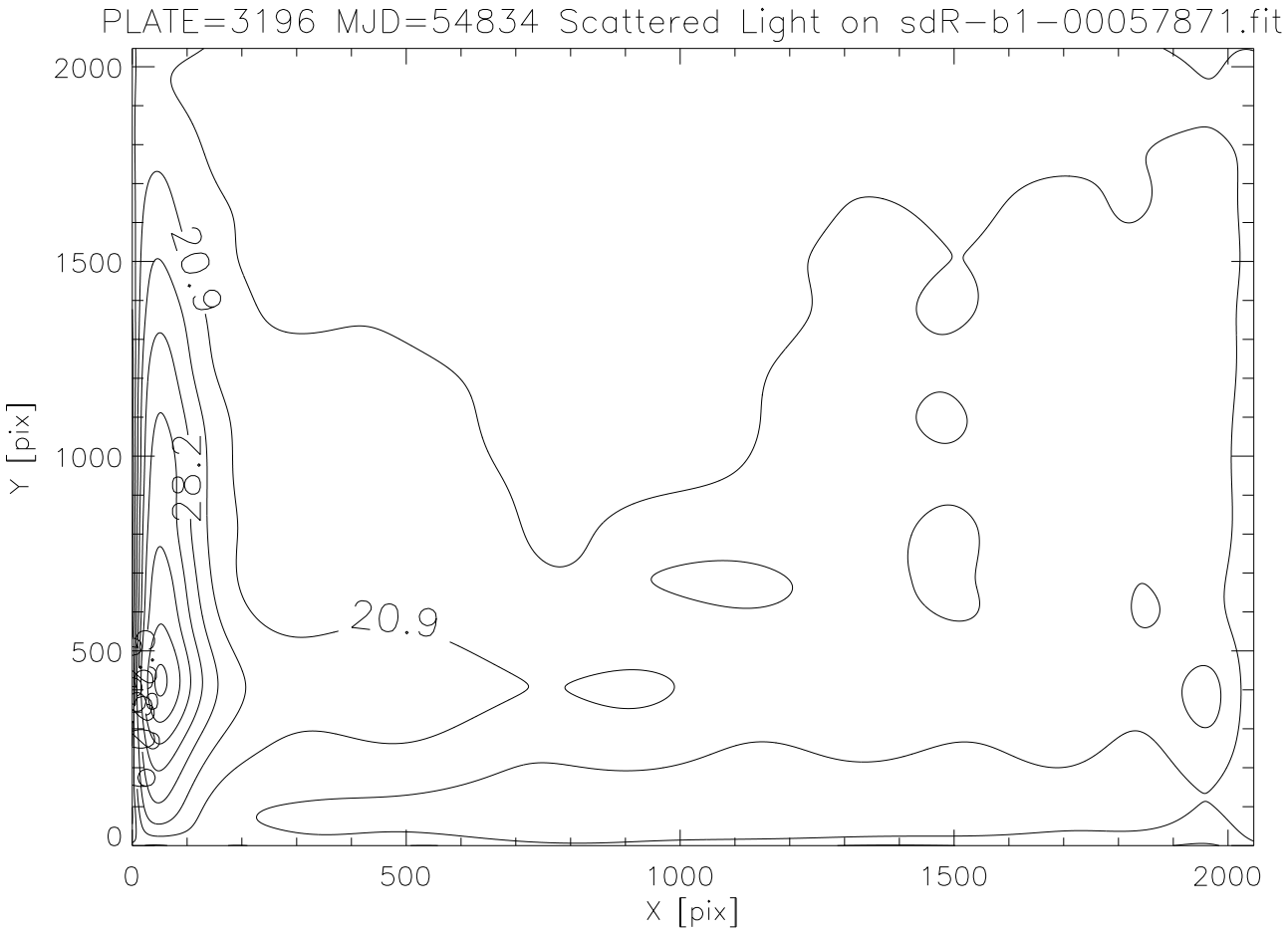

PLATE=3196 MJD=54834 Superflat sdR-b1-00057878.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

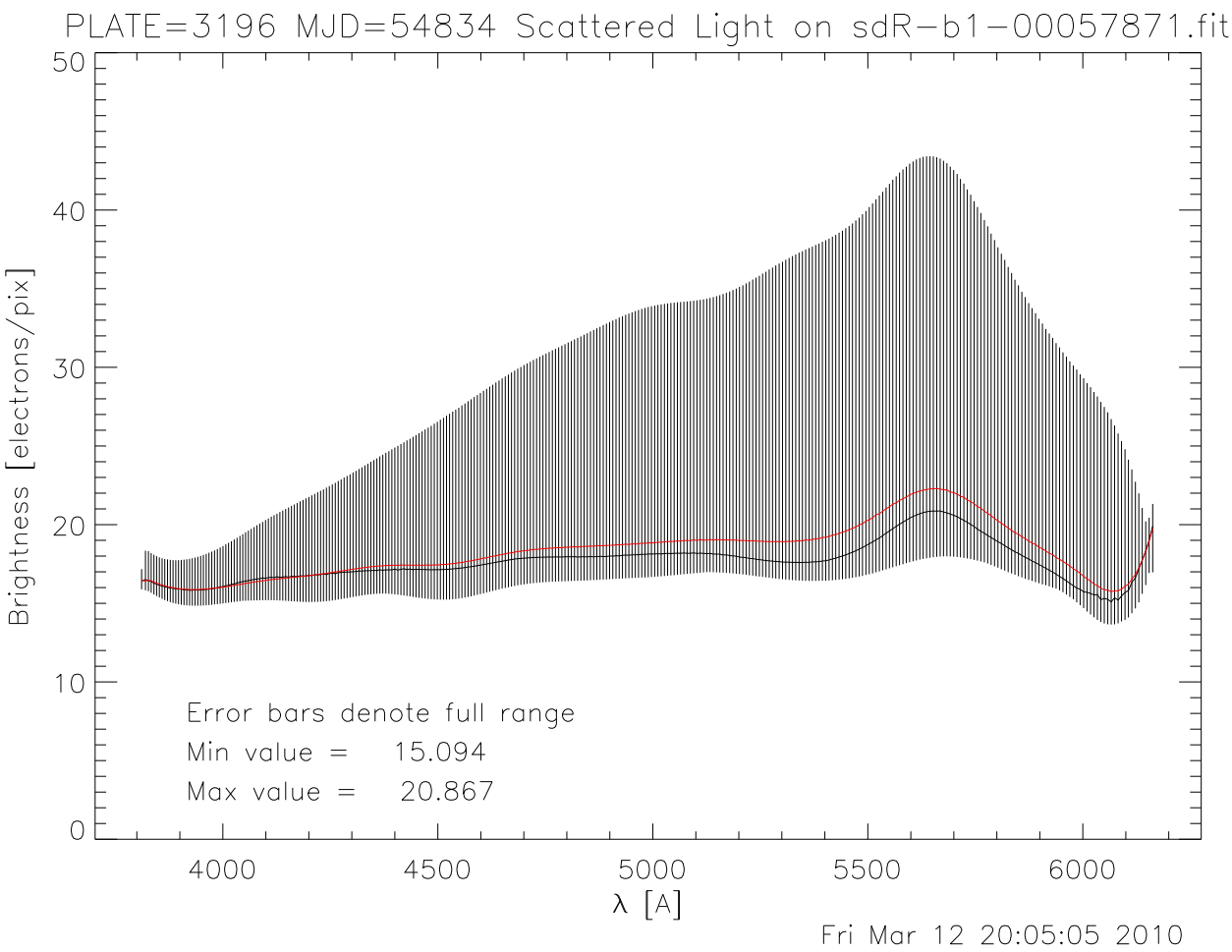

PLATE=3196 MJD=54834 Arcline Fit for sdR-b1-00057874.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Fri Mar 12 19:59:51 2010

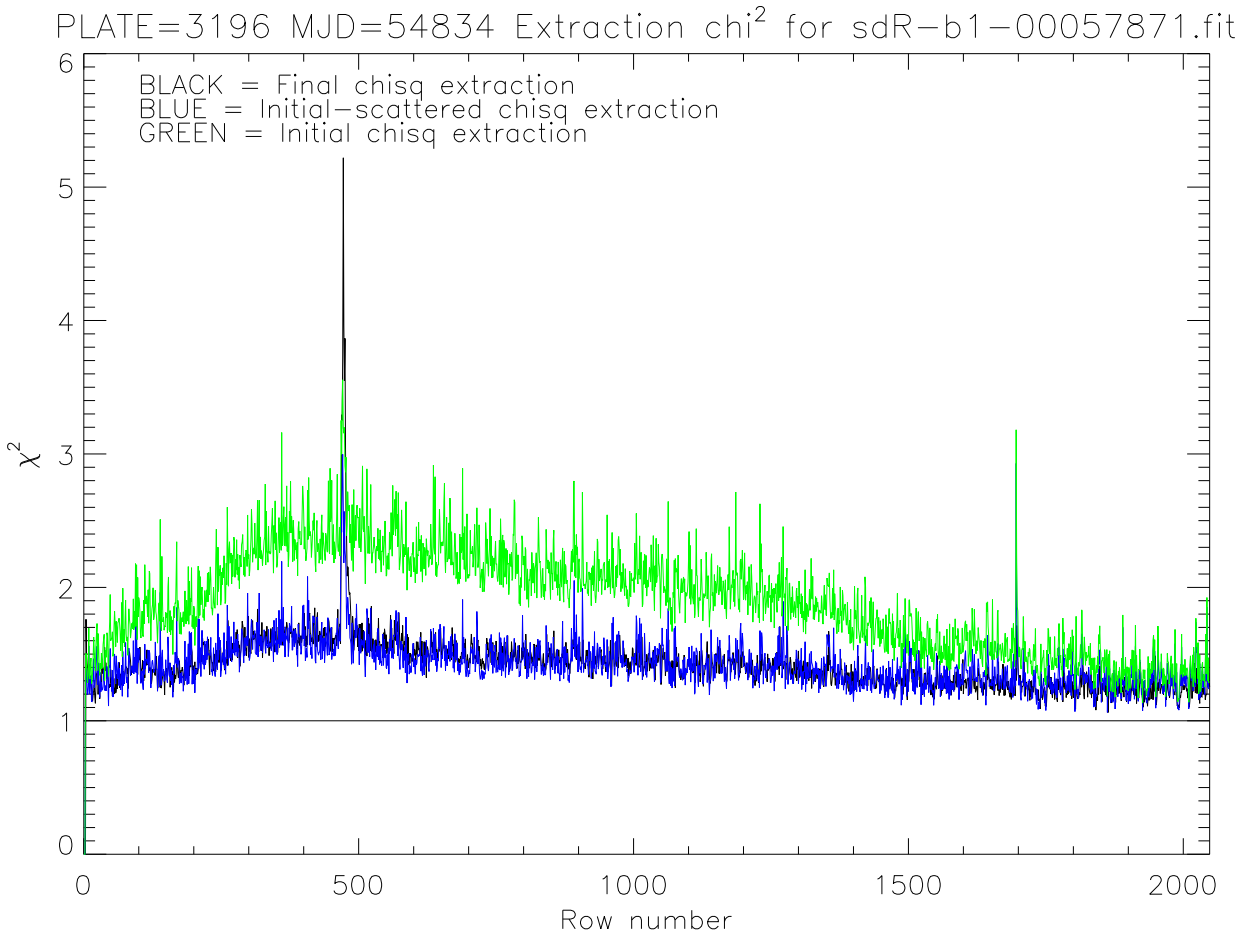

PLATE=3196 MJD=54834 Fiber−Flats for sdR−b1−00057873.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.391
Max value = 1.246
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Fri Mar 12 20:00:01 2010

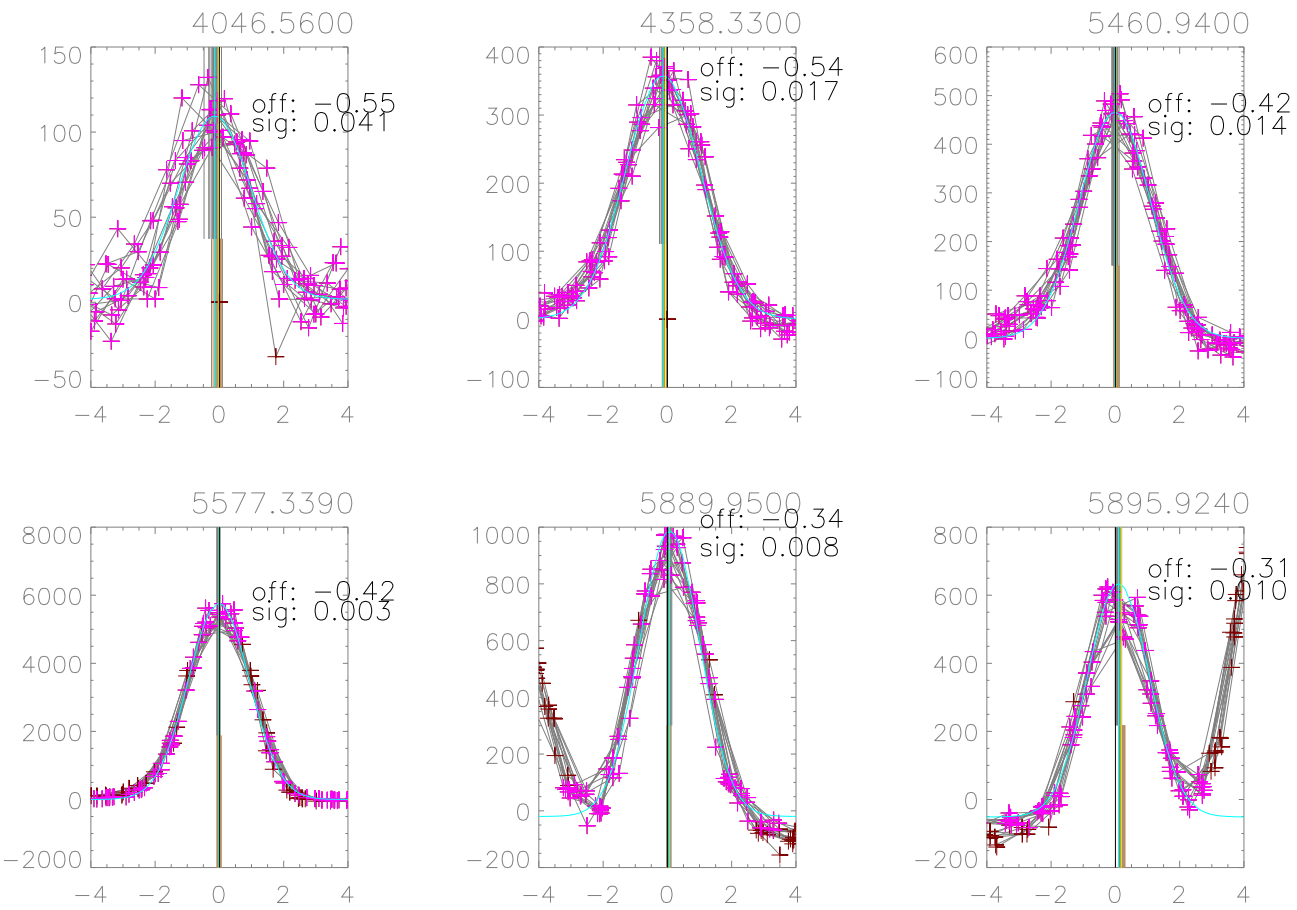

PLATE=3196 MJD=54834 Scattered Light before halo removal on sdR-b1-00057871.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
23.6
23.6
23.6
32.7
32.7
32.7
32.7
0

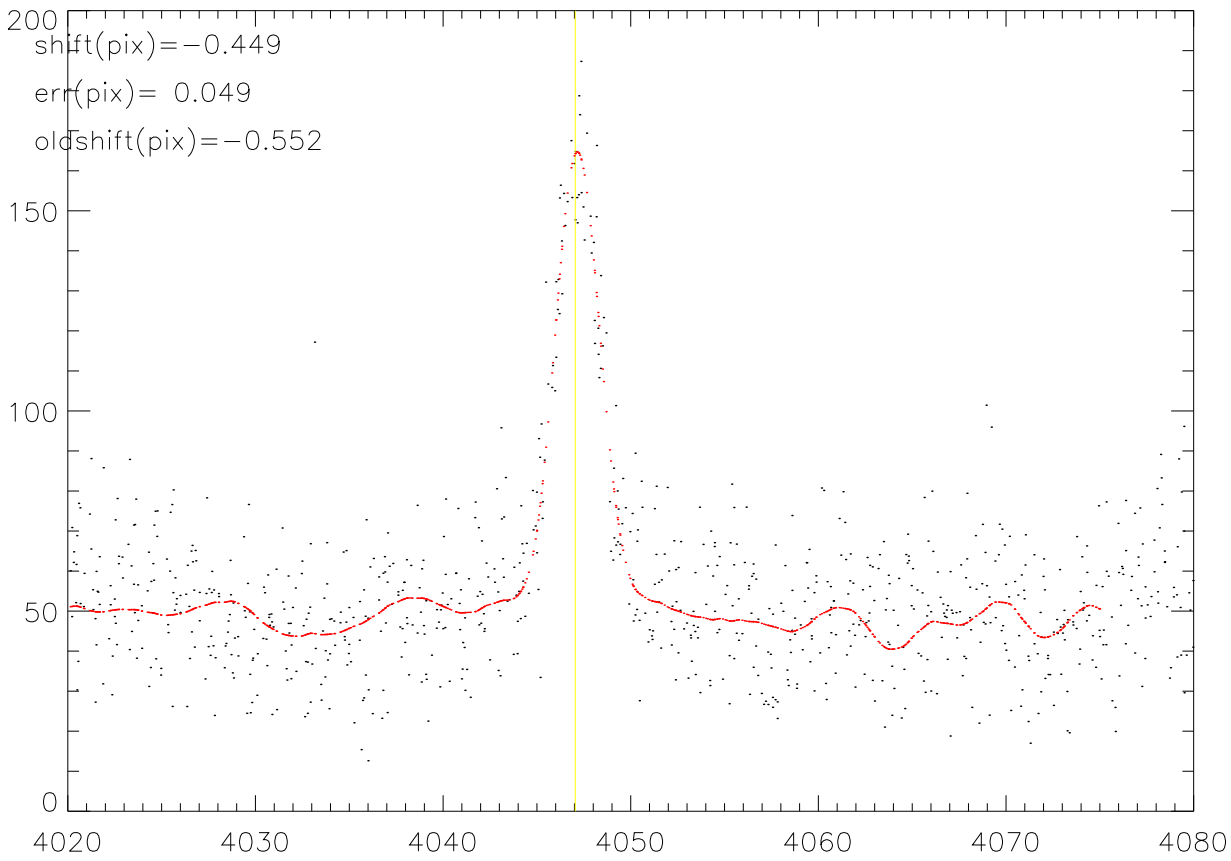

PLATE=3196 MJD=54834 Scattered Light before halo removal on sdR-b1-00057871.f
Brightness [electrons/pix]
60
40
20
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 20.868
Max value = 33.236
Fri Mar 12 20:01:11 2010

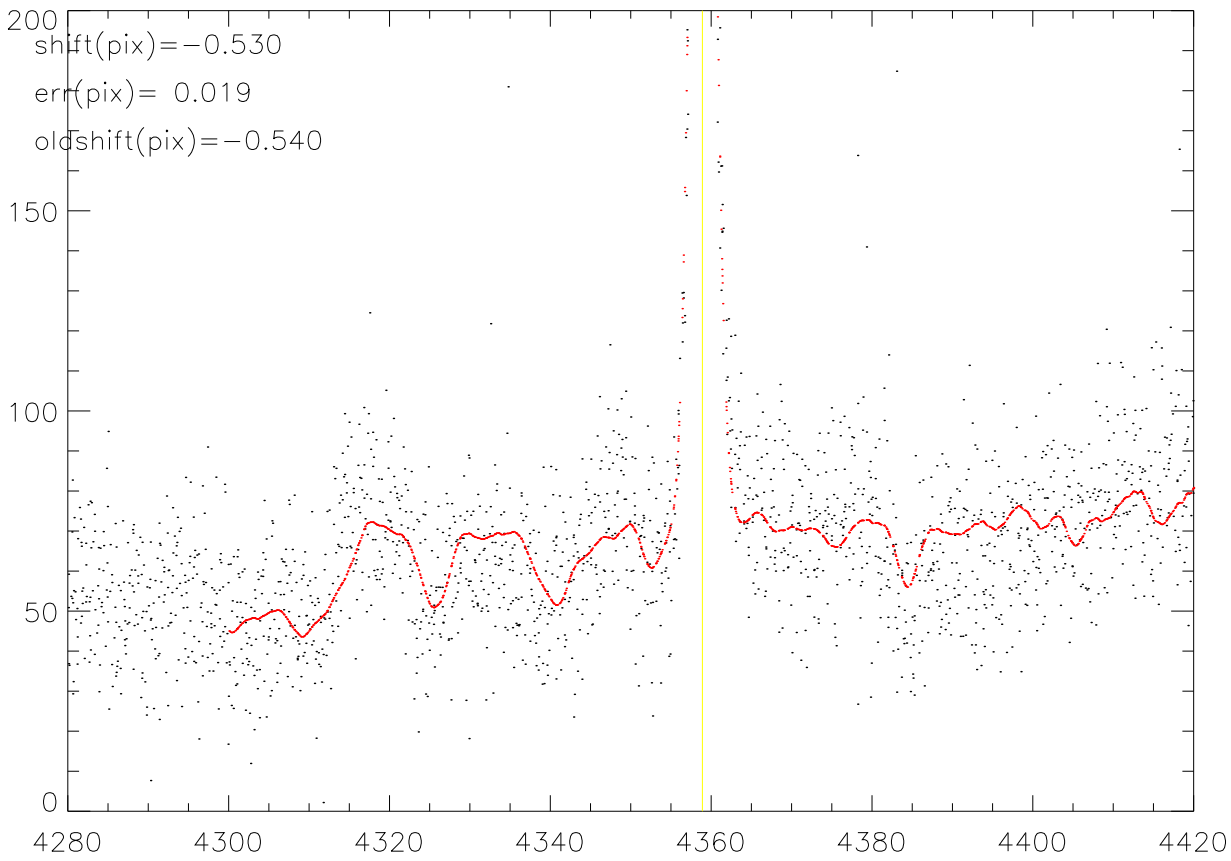

PLATE=3196 MJD=54834 Scattered Light on sdR-b1-00057871.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
20.9
28.2
20.9
20.9

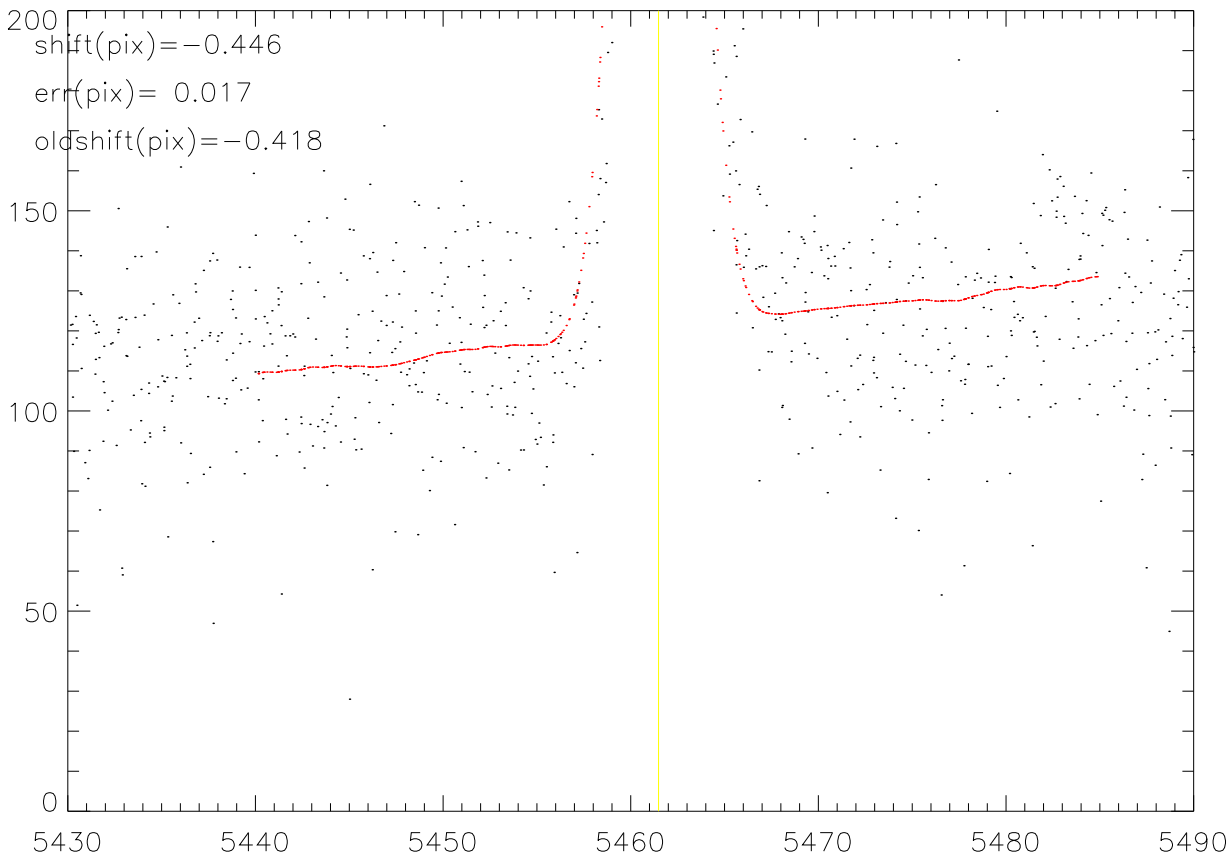

PLATE=3196 MJD=54834 Scattered Light on sdR-b1-00057871.fit
Brightness [electrons/pix]
50
40
30
20
10
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 15.094
Max value = 20.867
Fri Mar 12 20:05:05 2010

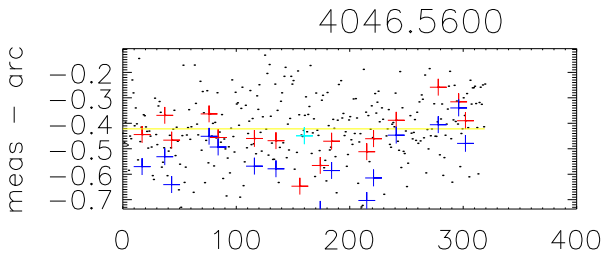

PLATE=3196 MJD=54834 Extraction chi^2 for sdR-b1-00057871.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

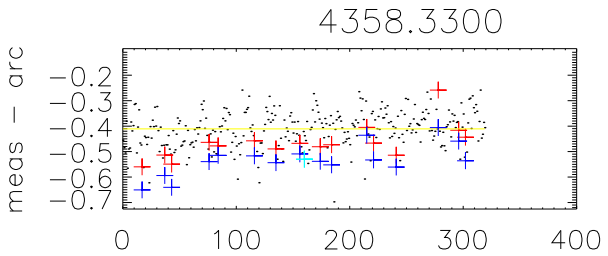

4046.5600
off: −0.55
sig: 0.041
4358.3300
off: −0.54
sig: 0.017
5460.9400
off: −0.42
sig: 0.014
5577.3390
off: −0.42
sig: 0.003
5889.9500
off: −0.34
sig: 0.008
5895.9240
off: −0.31
sig: 0.010

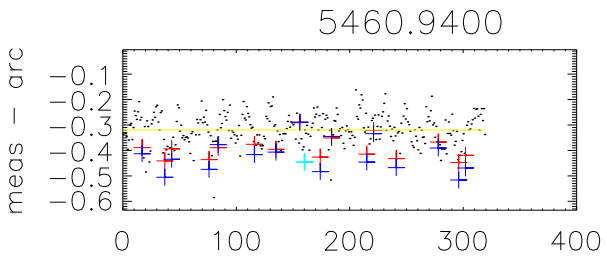

shift(pix)=−0.449
err(pix)= 0.049
oldshift(pix)=−0.552
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

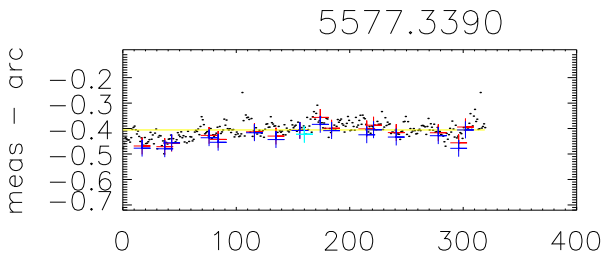

shift(pix)=−0.530
err(pix)= 0.019
oldshift(pix)=−0.540
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

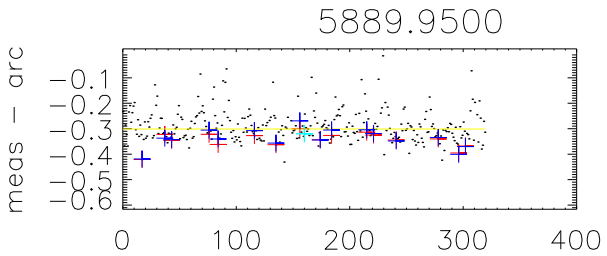

shift(pix)=−0.446
err(pix)= 0.017
oldshift(pix)=−0.418
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

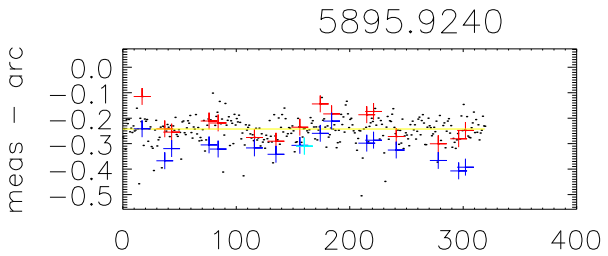

4046.5600
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

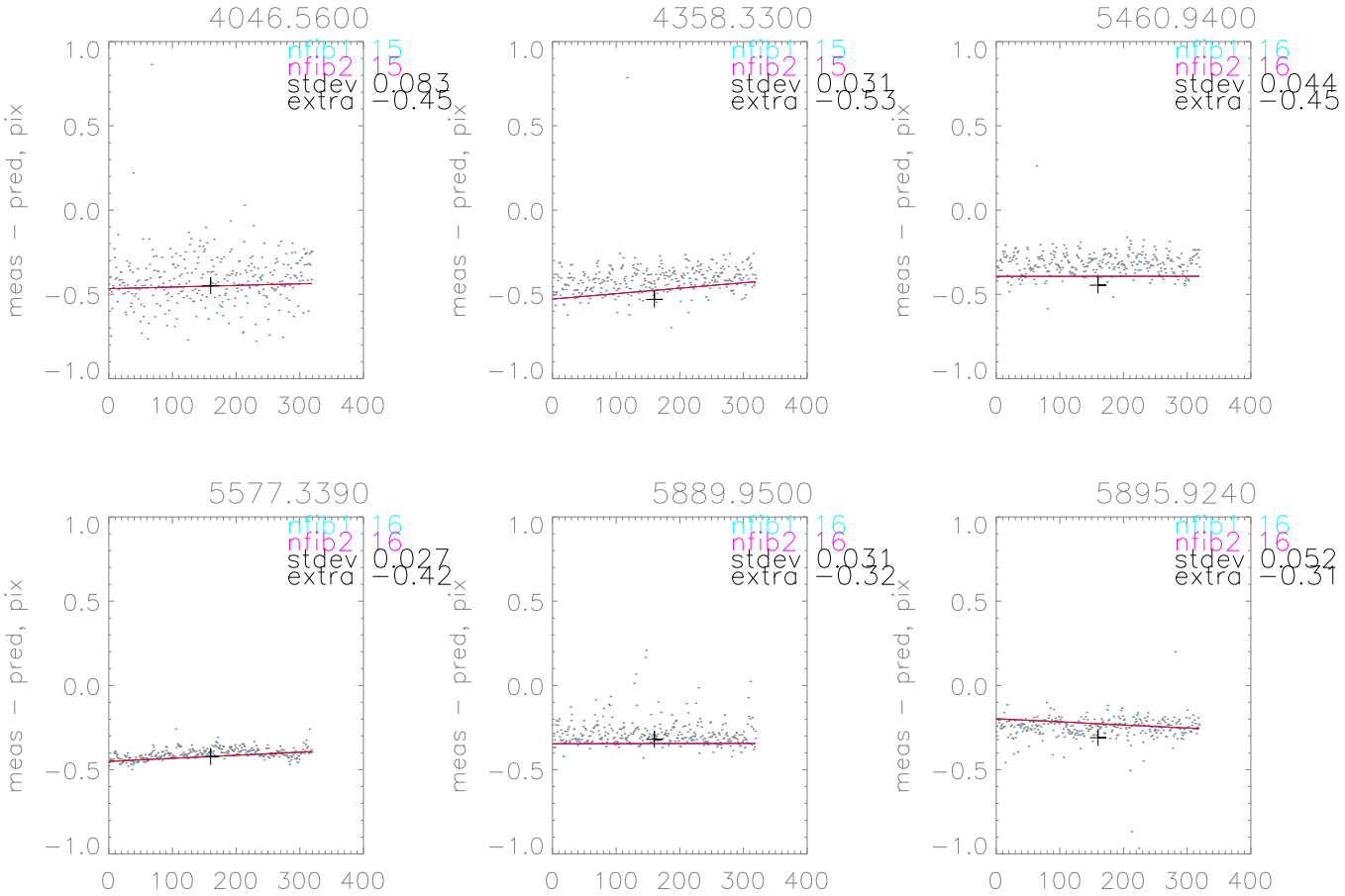

4358.3300
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

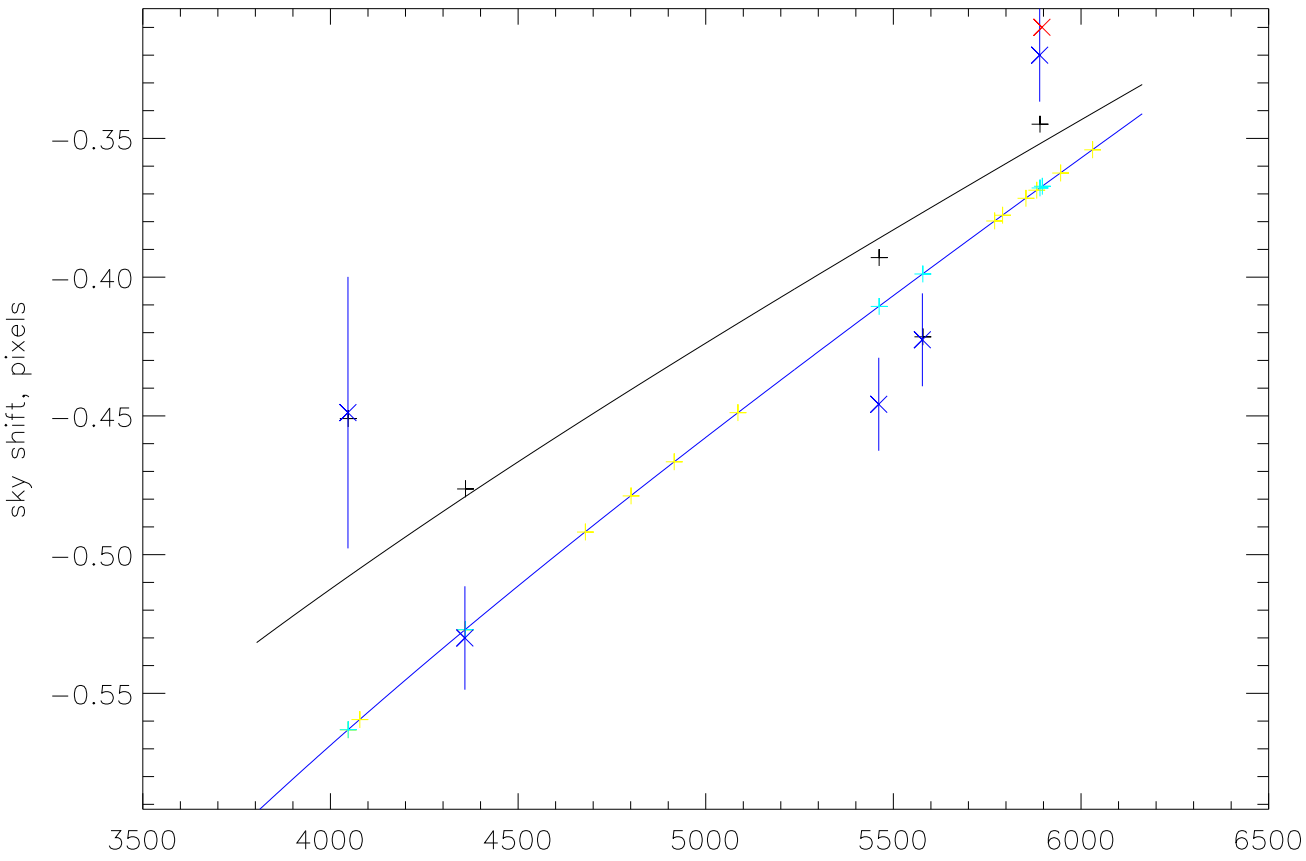

5460.9400
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400


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

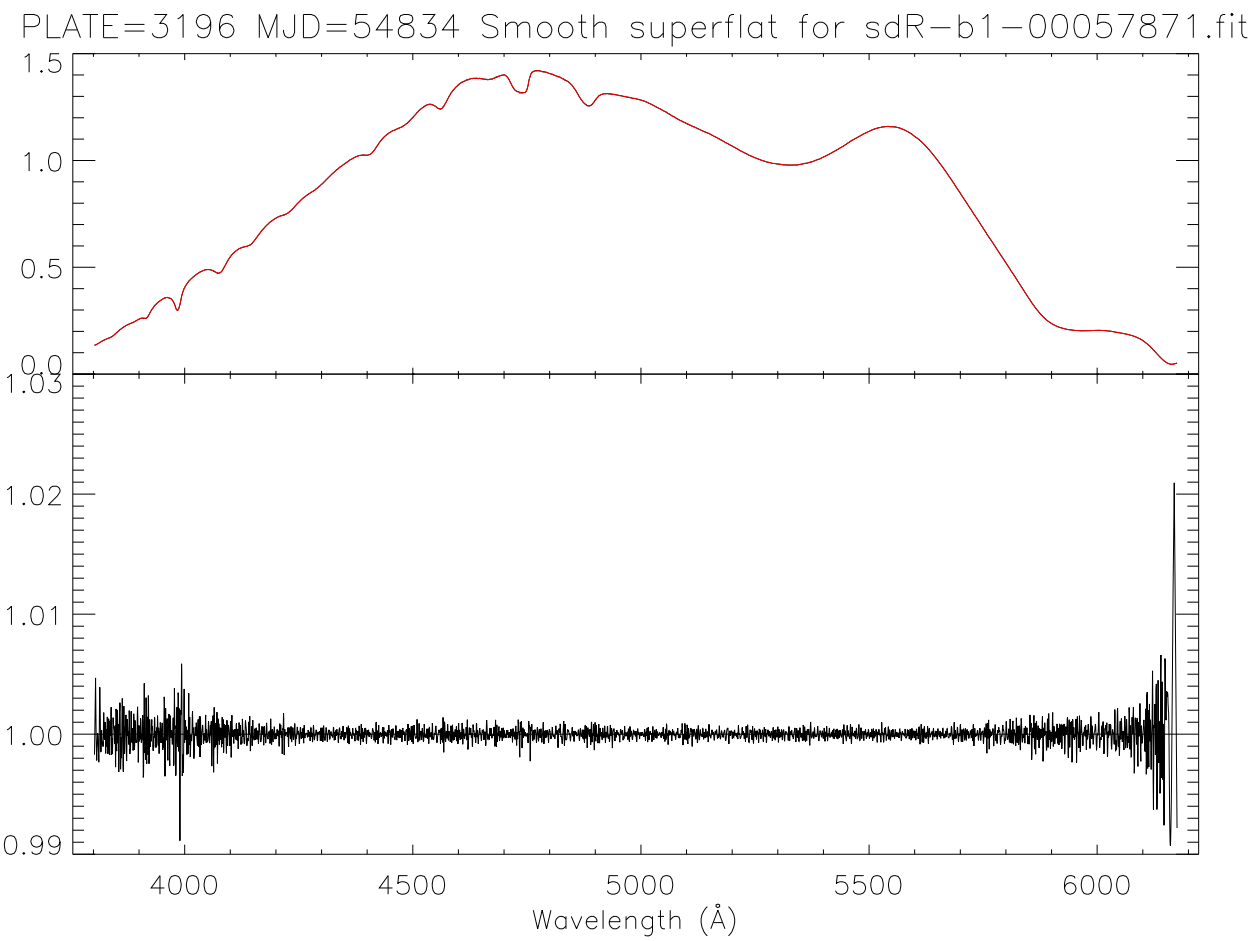

5889.9500
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

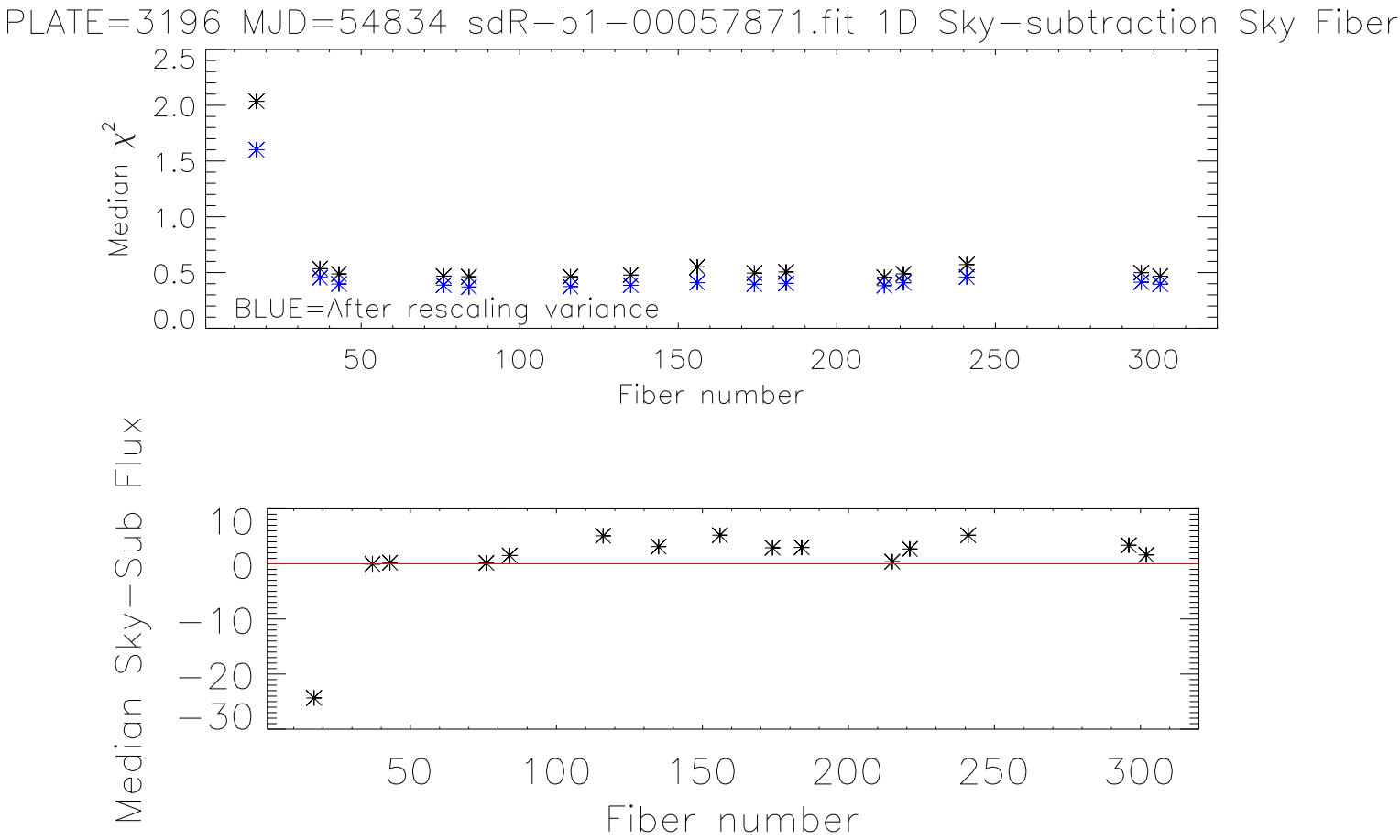

5895.9240
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

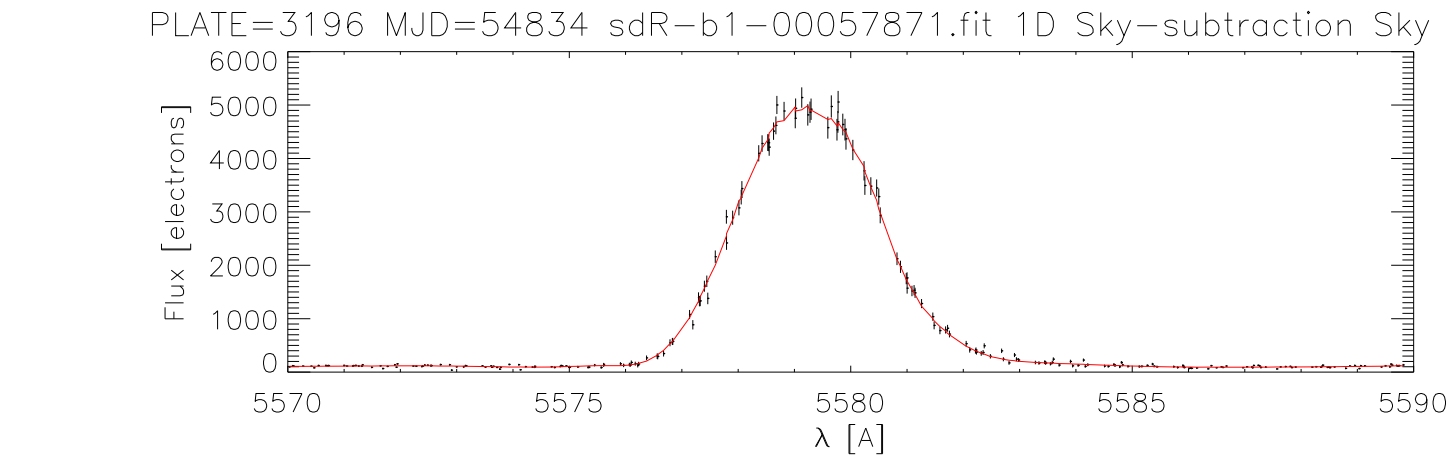

4046.5600
nfib1 15
nfib2 15
stdev 0.083
extra −0.45
4358.3300
nfib1 15
nfib2 15
stdev 0.031
extra −0.53
5460.9400
nfib1 16
nfib2 16
stdev 0.044
extra −0.45
5577.3390
nfib1 16
nfib2 16
stdev 0.027
extra −0.42
5889.9500
nfib1 16
nfib2 16
stdev 0.031
extra −0.32
5895.9240
nfib1 16
nfib2 16
stdev 0.052
extra −0.31
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

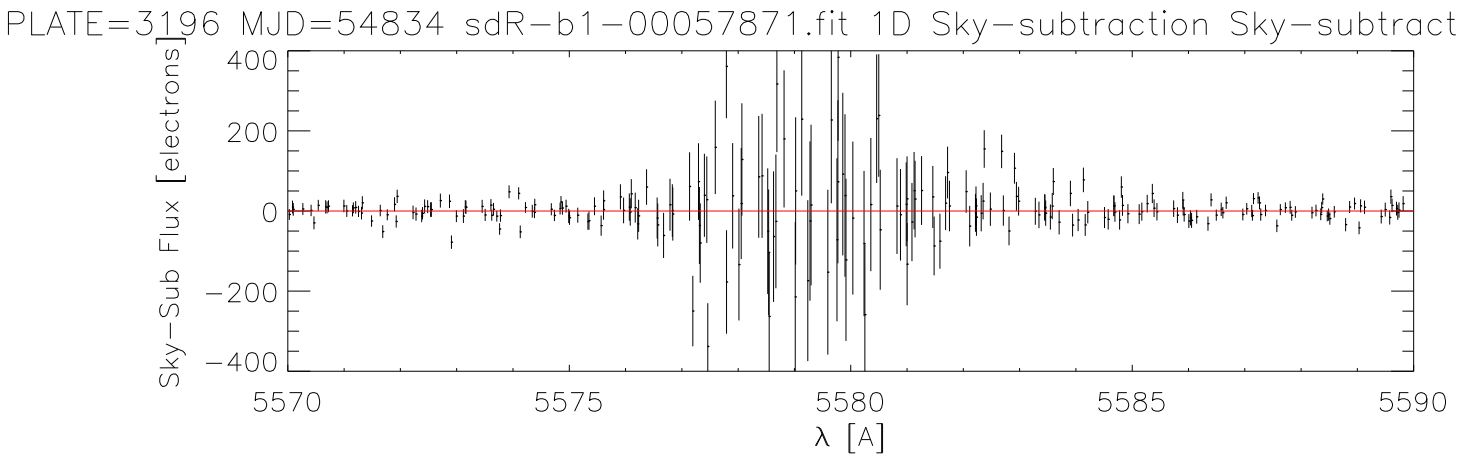

sky shift, pixels
−0.35
−0.40
−0.45
−0.50
−0.55
3500
4000
4500
5000
5500
6000
6500

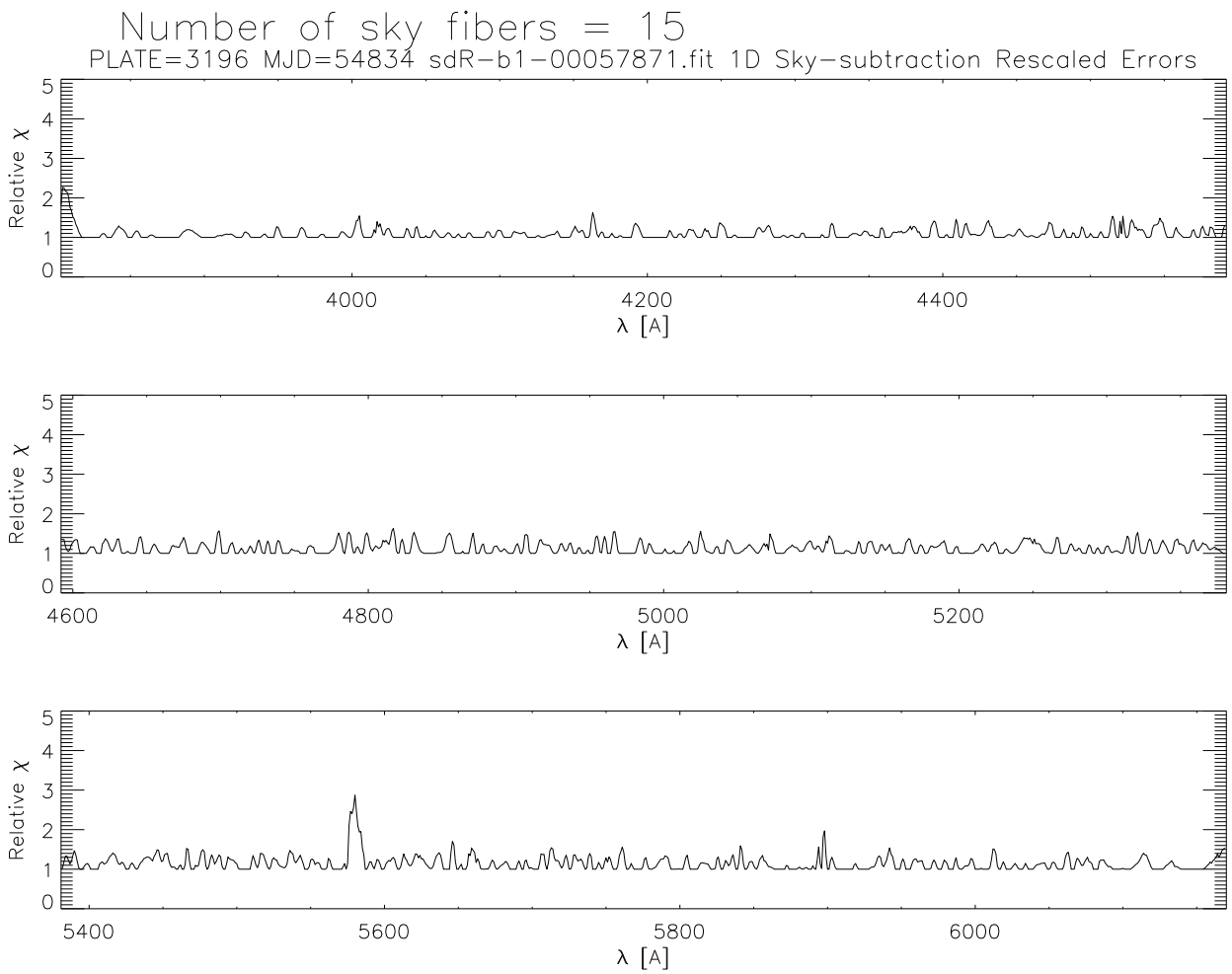
es= −0.0001

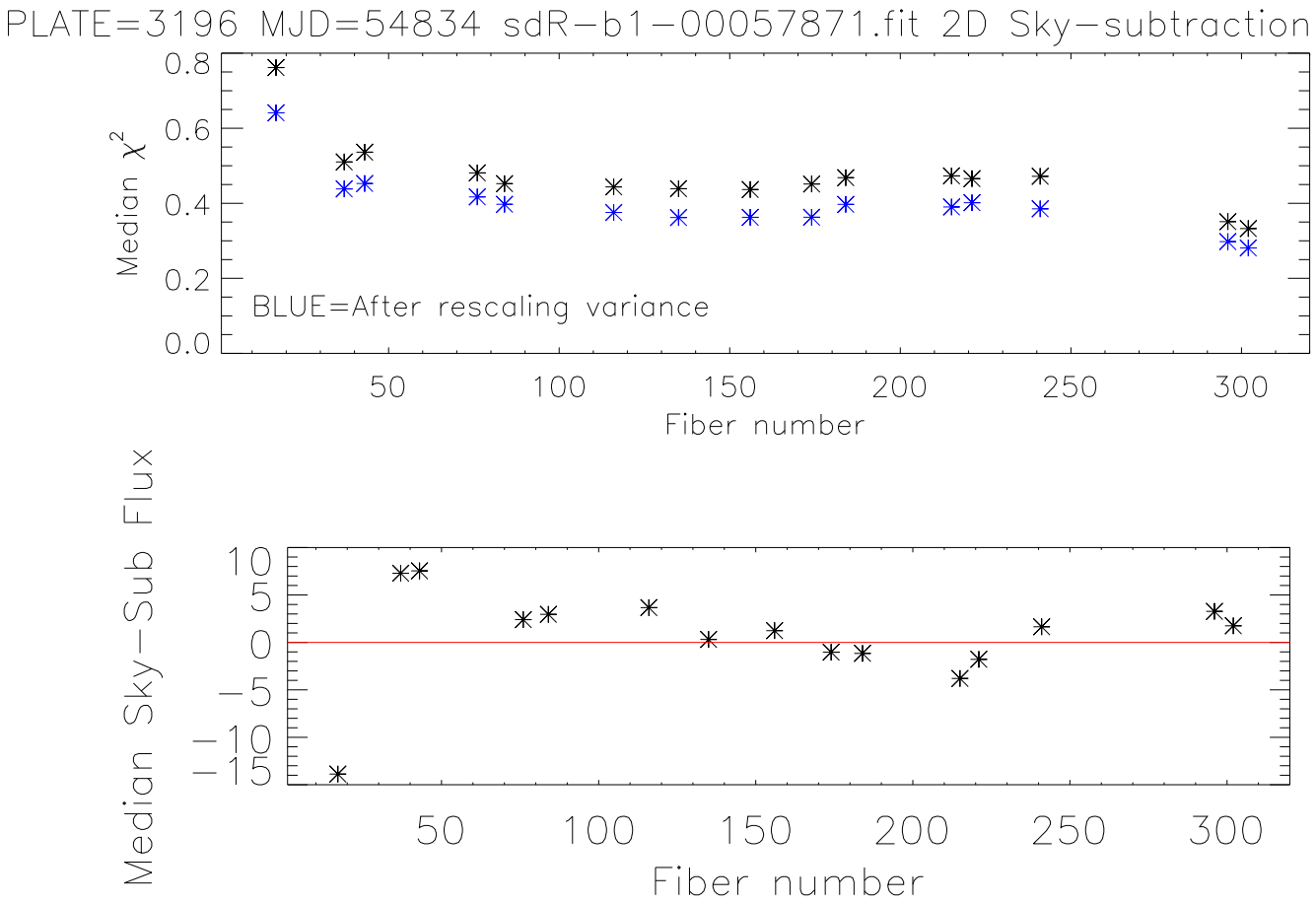

PLATE=3196 MJD=54834 Smooth superflat for sdR−b1−00057871.fit
1.5
1.0
0.5
0.0
1.03
1.02
1.01
1.00
0.99
4000
4500
5000
5500
6000
Wavelength (Å)

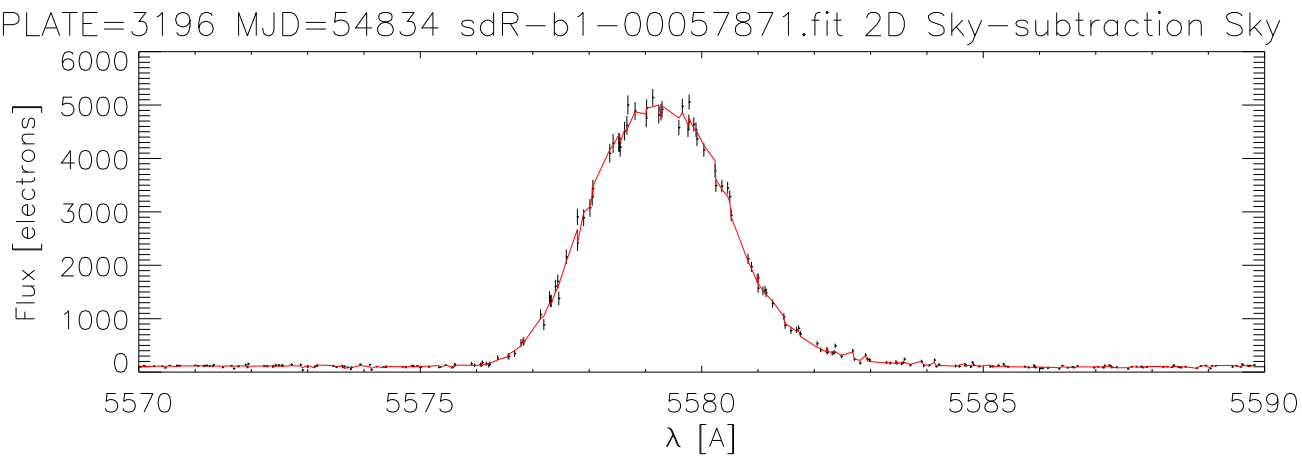

PLATE=3196 MJD=54834 sdR-b1-00057871.fit 1D Sky-subtraction Sky Fiber
Median χ^2
2.5
2.0
1.5
1.0
0.5
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
0
-10
-20
-30
50
100
150
200
250
300
Fiber number

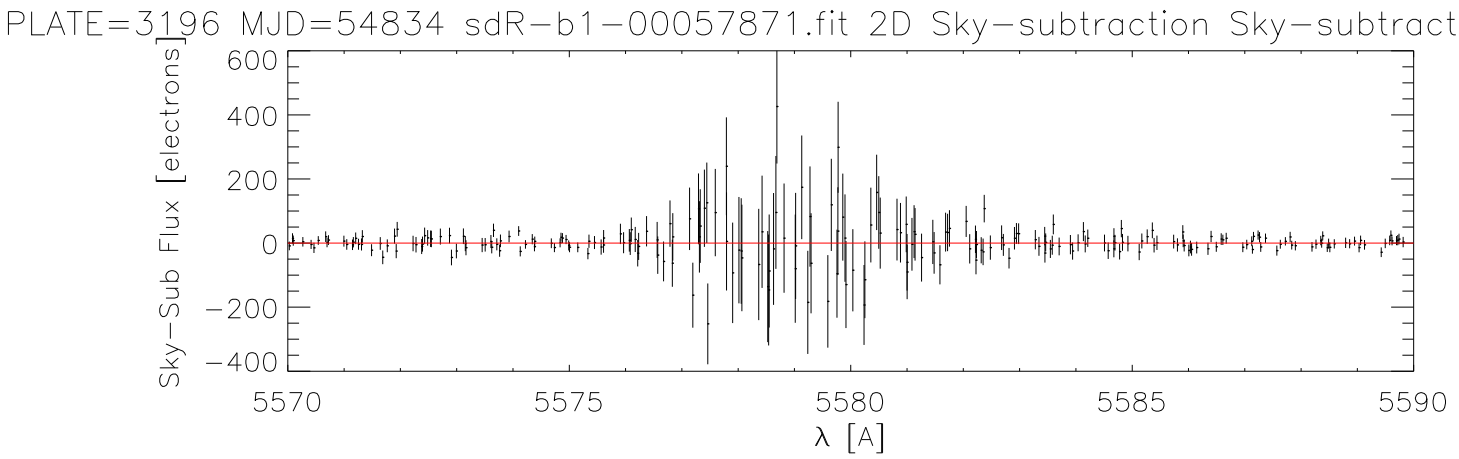

PLATE=3196 MJD=54834 sdR-b1-00057871.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

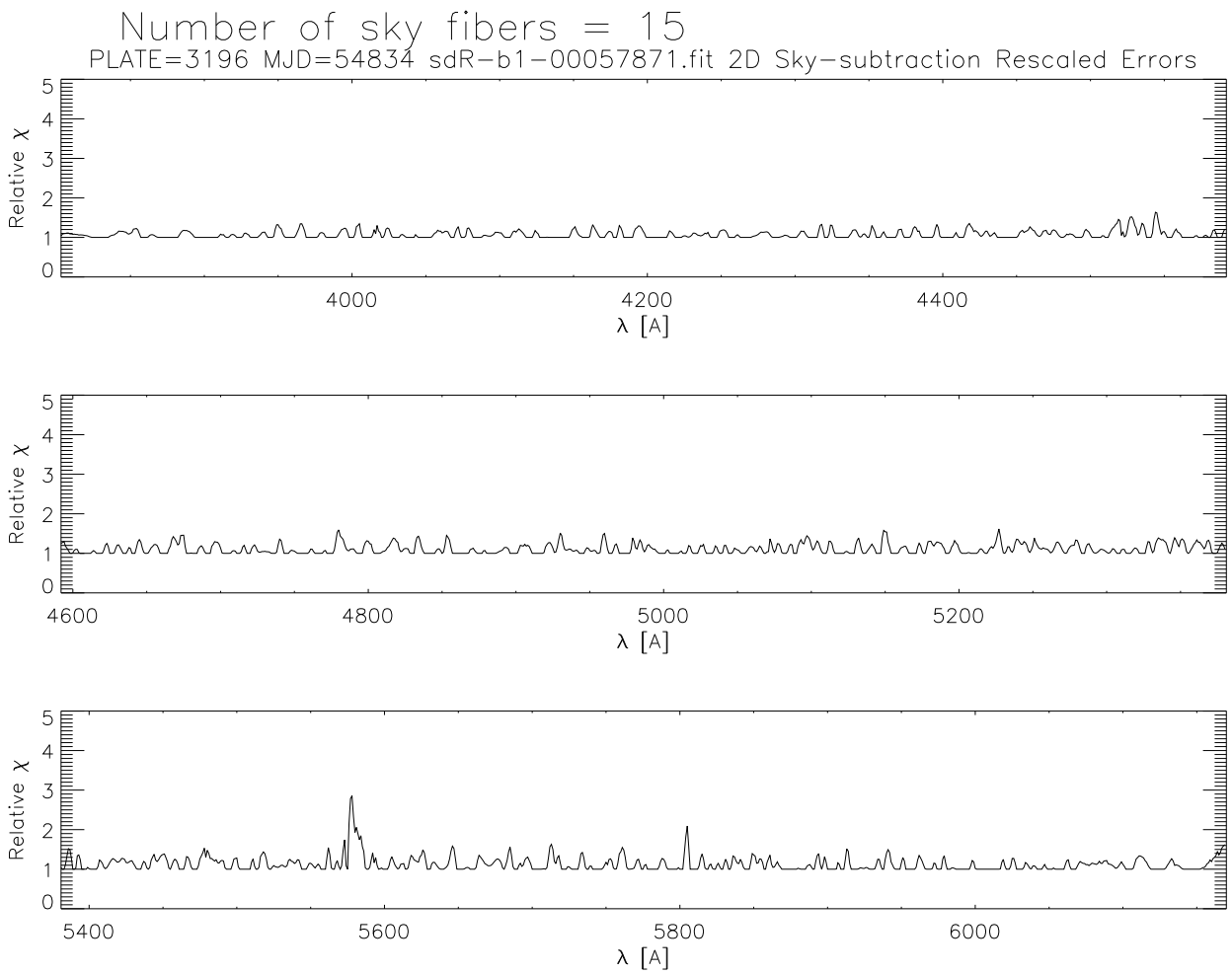

PLATE=3196 MJD=54834 sdR-b1-00057871.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

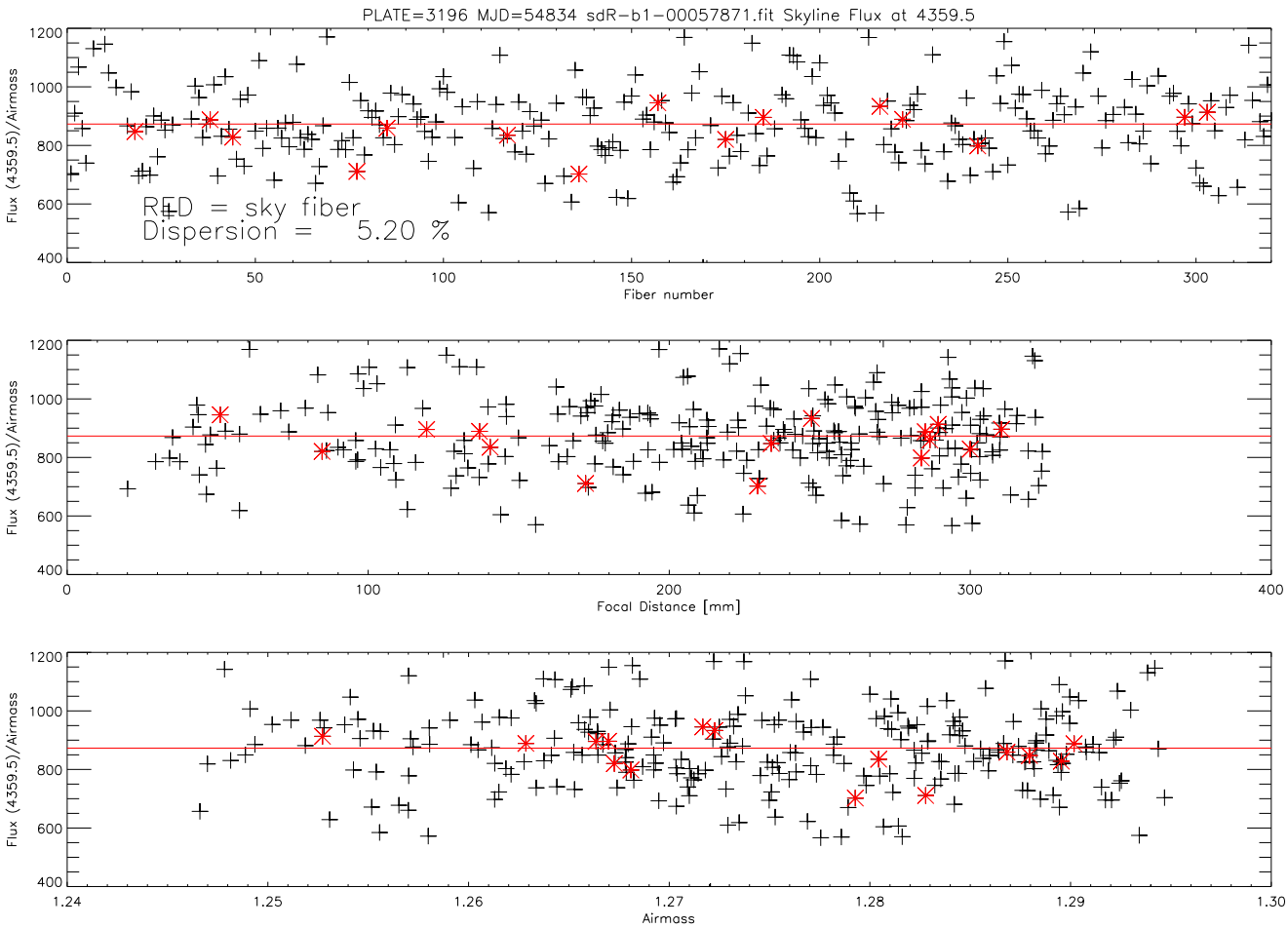

Number of sky fibers = 15
PLATE=3196 MJD=54834 sdR-b1-00057871.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

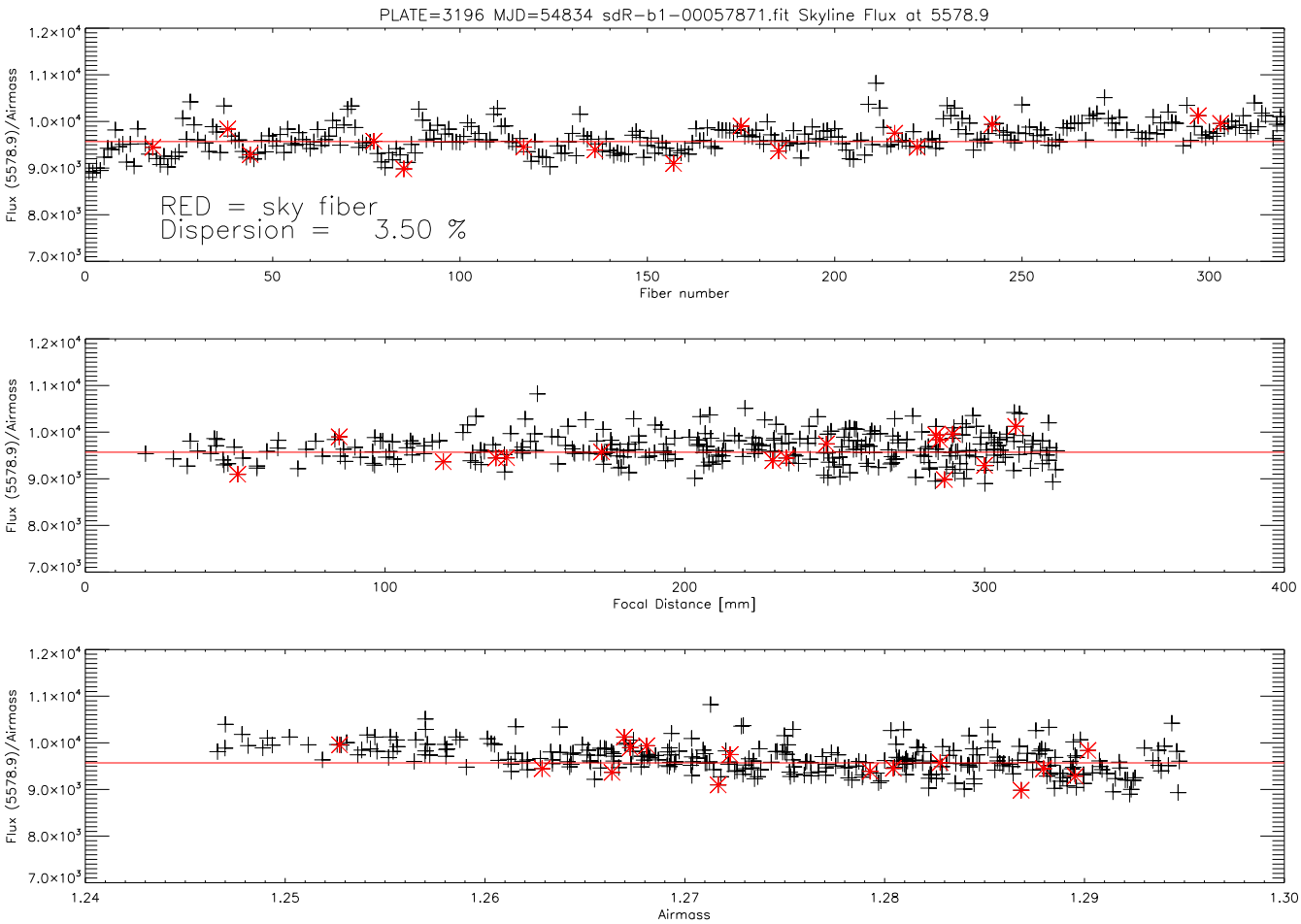

PLATE=3196 MJD=54834 sdR-b1-00057871.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

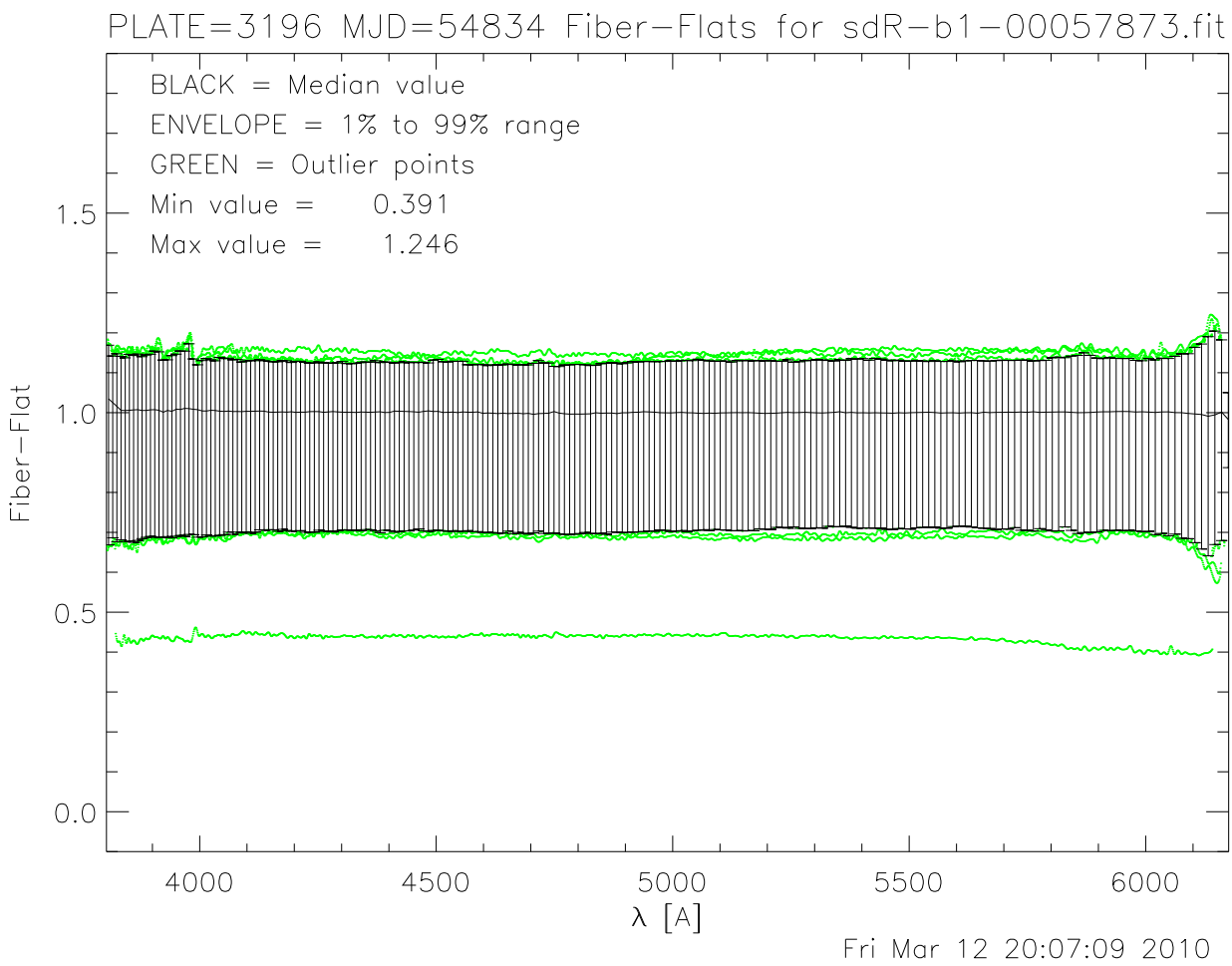

PLATE=3196 MJD=54834 sdR-b1-00057871.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

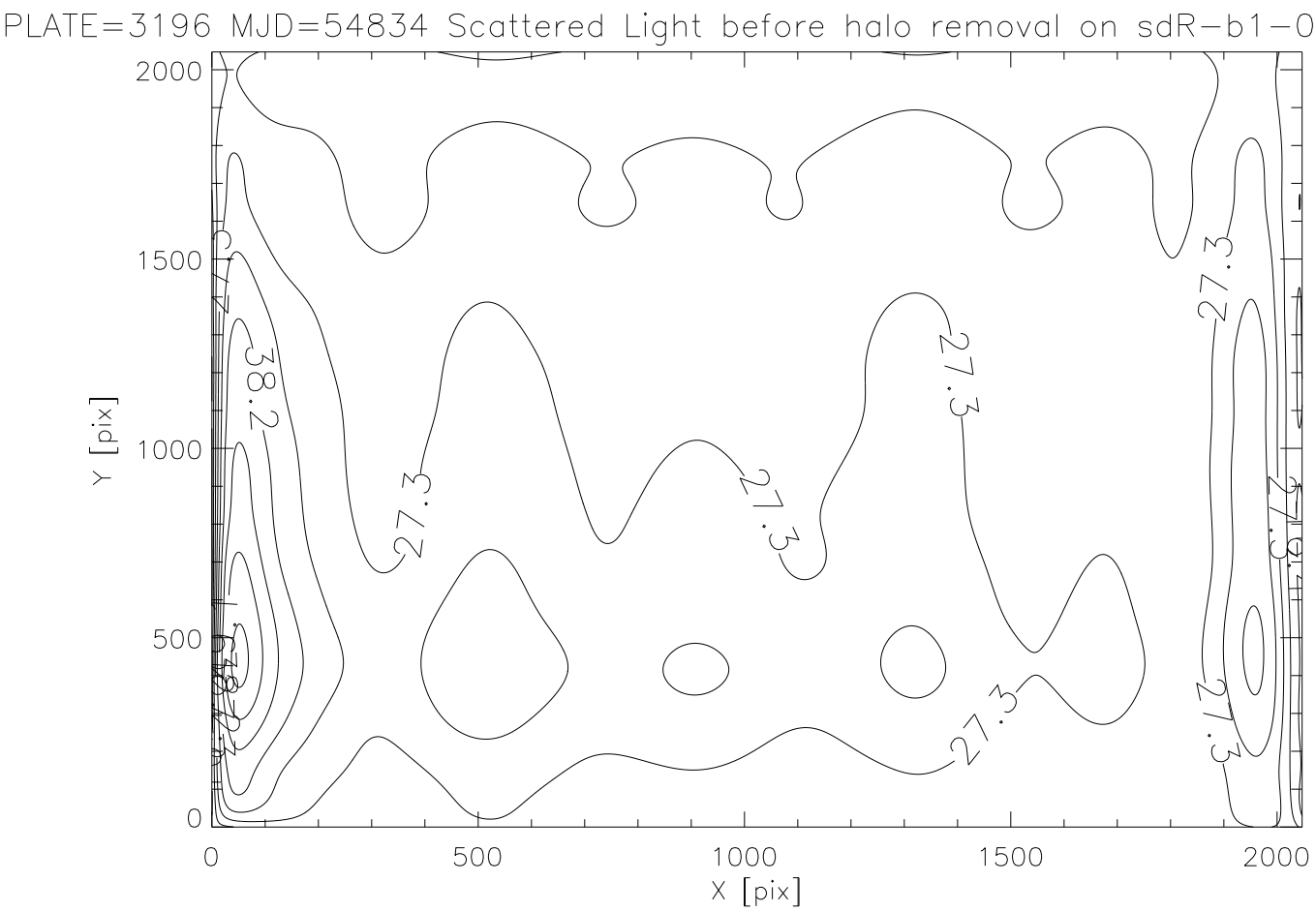

PLATE=3196 MJD=54834 sdR-b1-00057871.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
−200
−400
5570
5575
5580
5585
5590
λ [A]

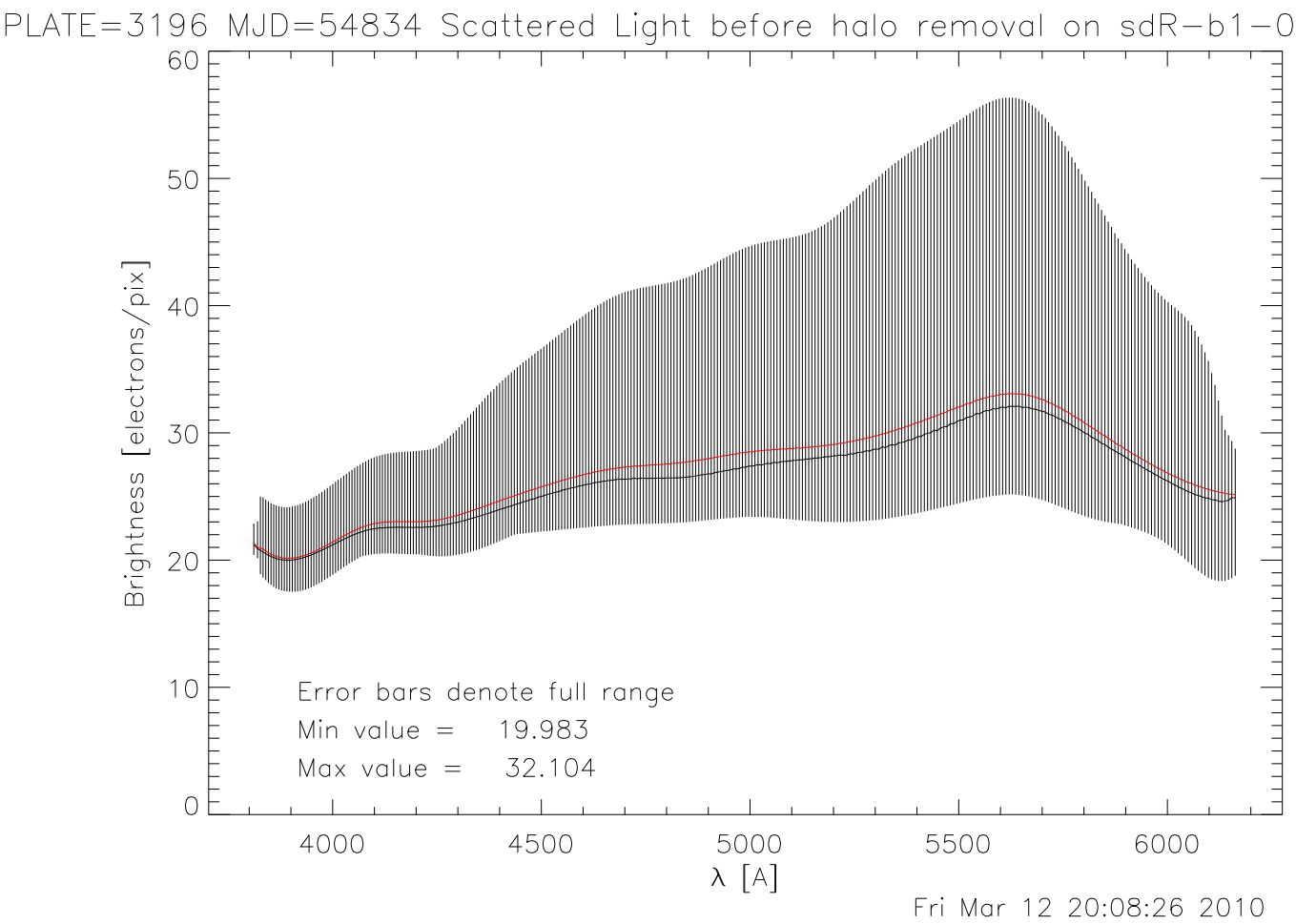

Number of sky fibers = 15
PLATE=3196 MJD=54834 sdR-b1-00057871.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

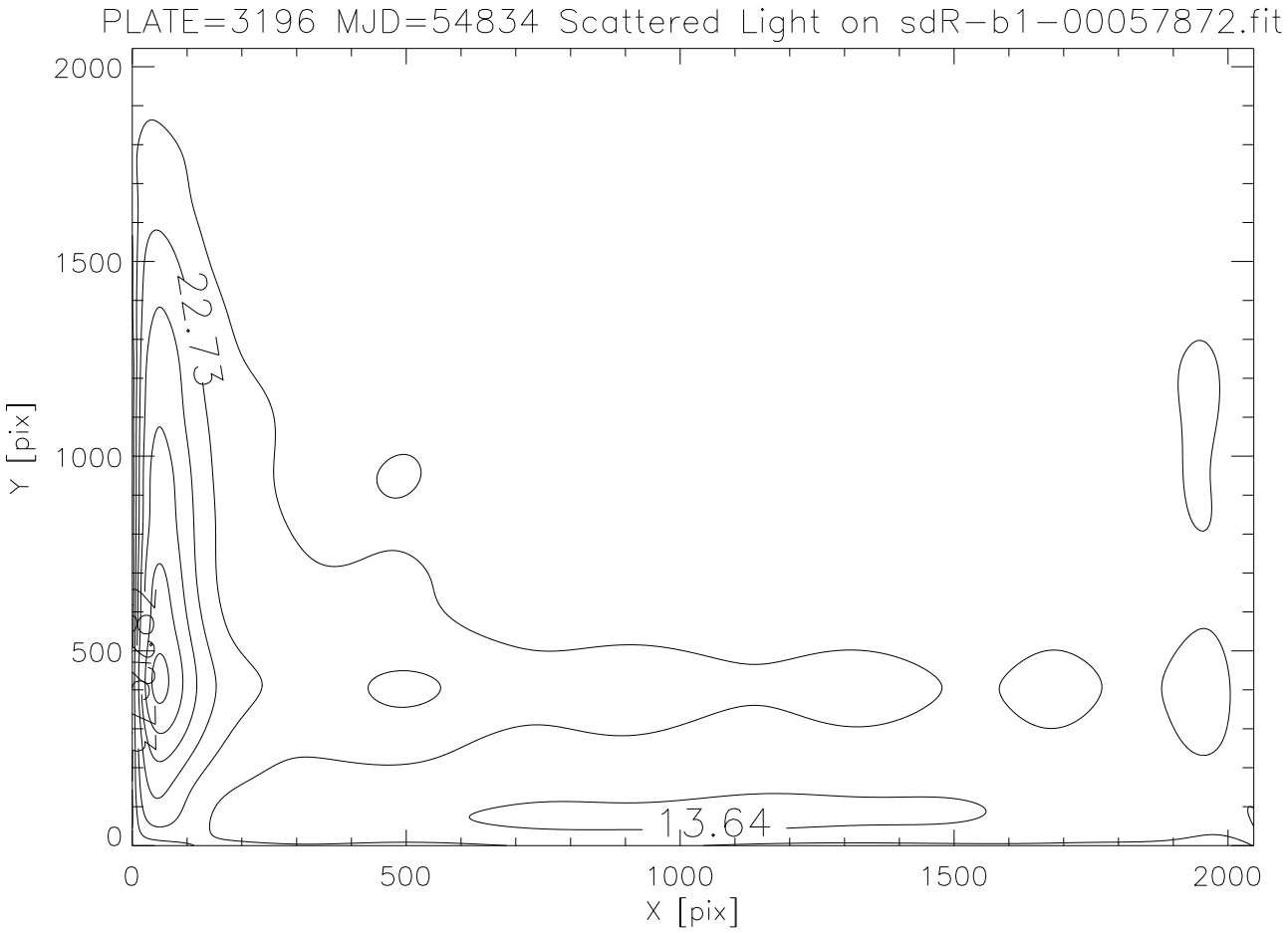

PLATE=3196 MJD=54834 sdR-b1-00057871.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 5.20 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

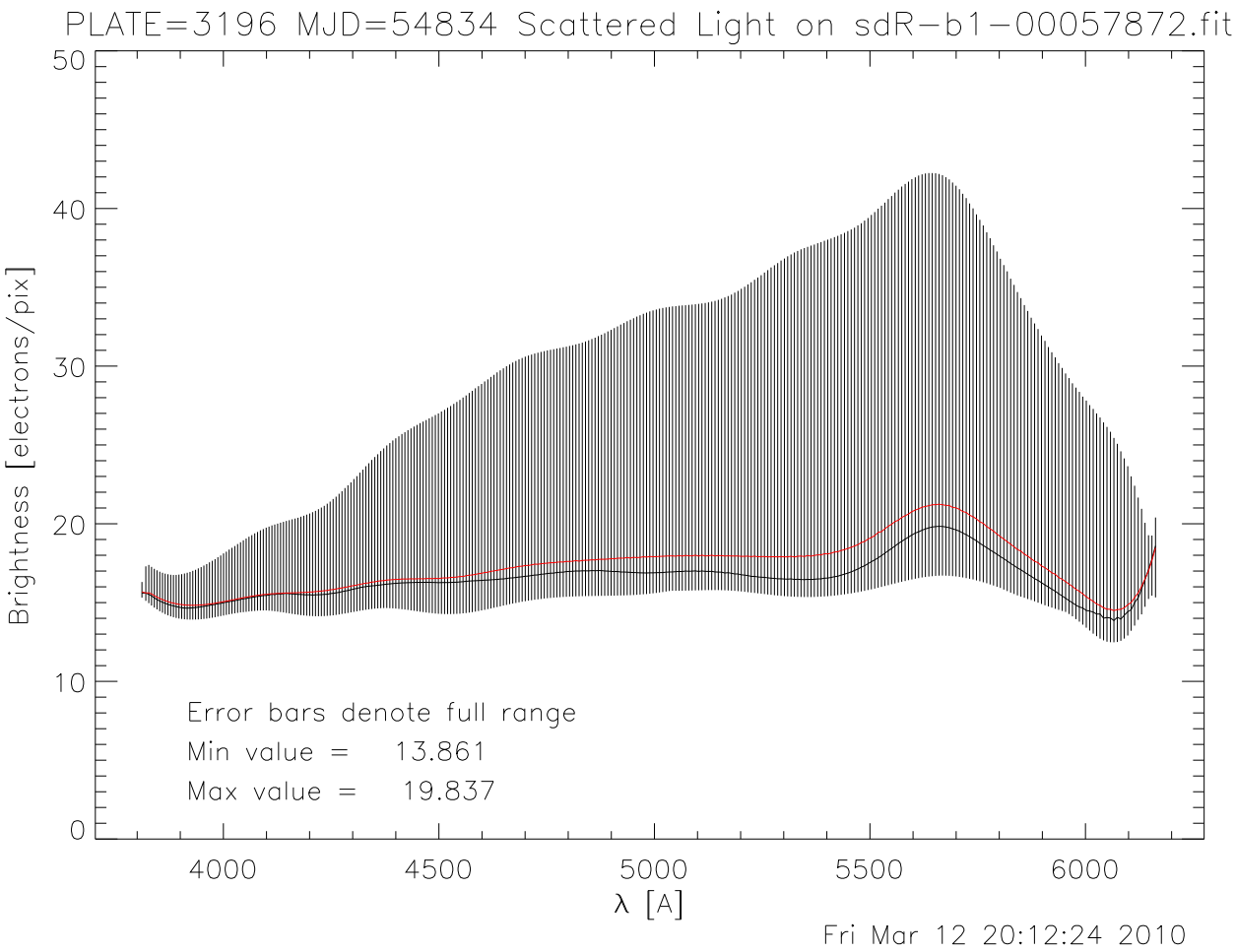

PLATE=3196 MJD=54834 sdR-b1-00057871.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 3.50 %
Fiber number
Focal Distance [mm]
Airmass

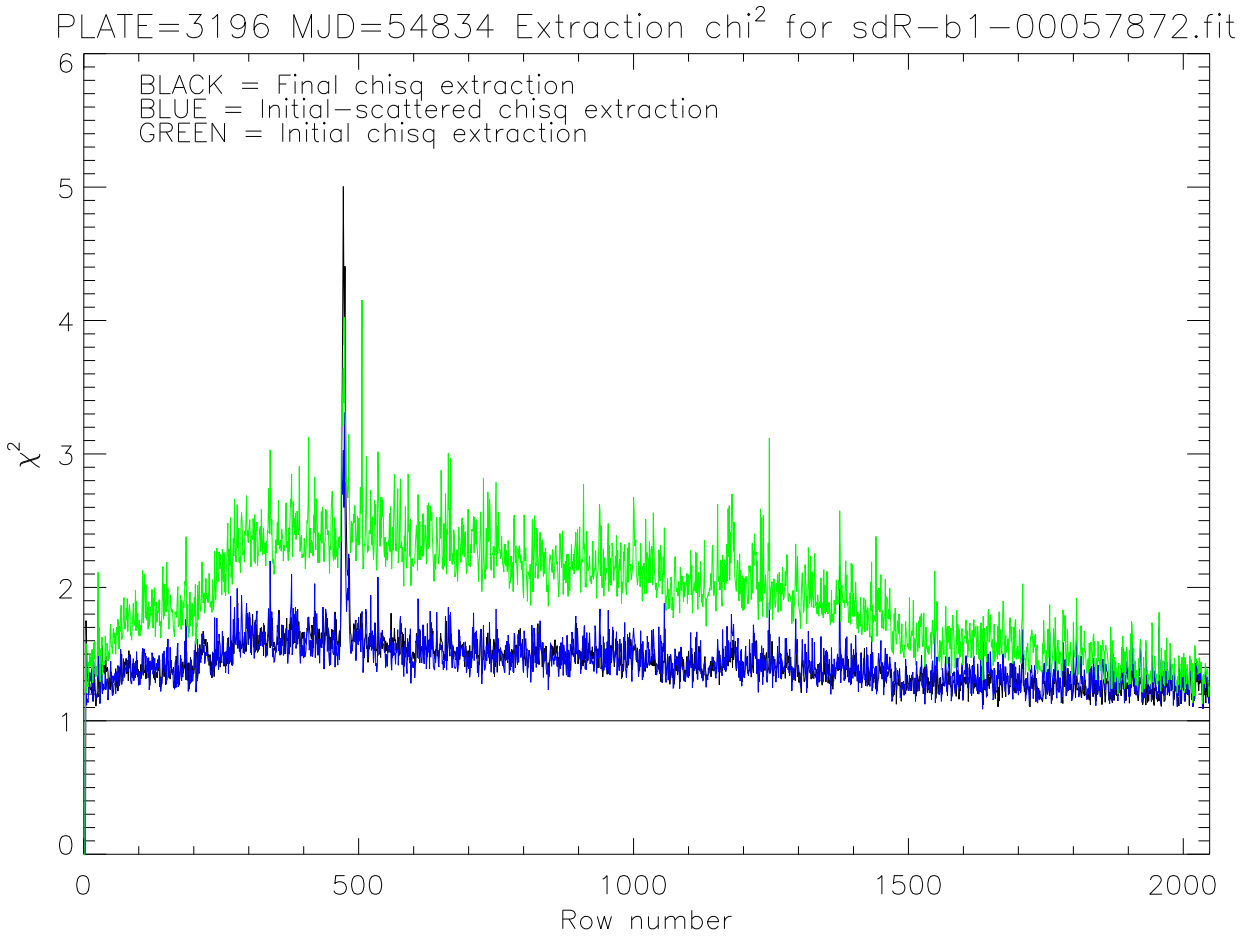

PLATE=3196 MJD=54834 Fiber−Flats for sdR−b1−00057873.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.391
Max value = 1.246
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Fri Mar 12 20:07:09 2010

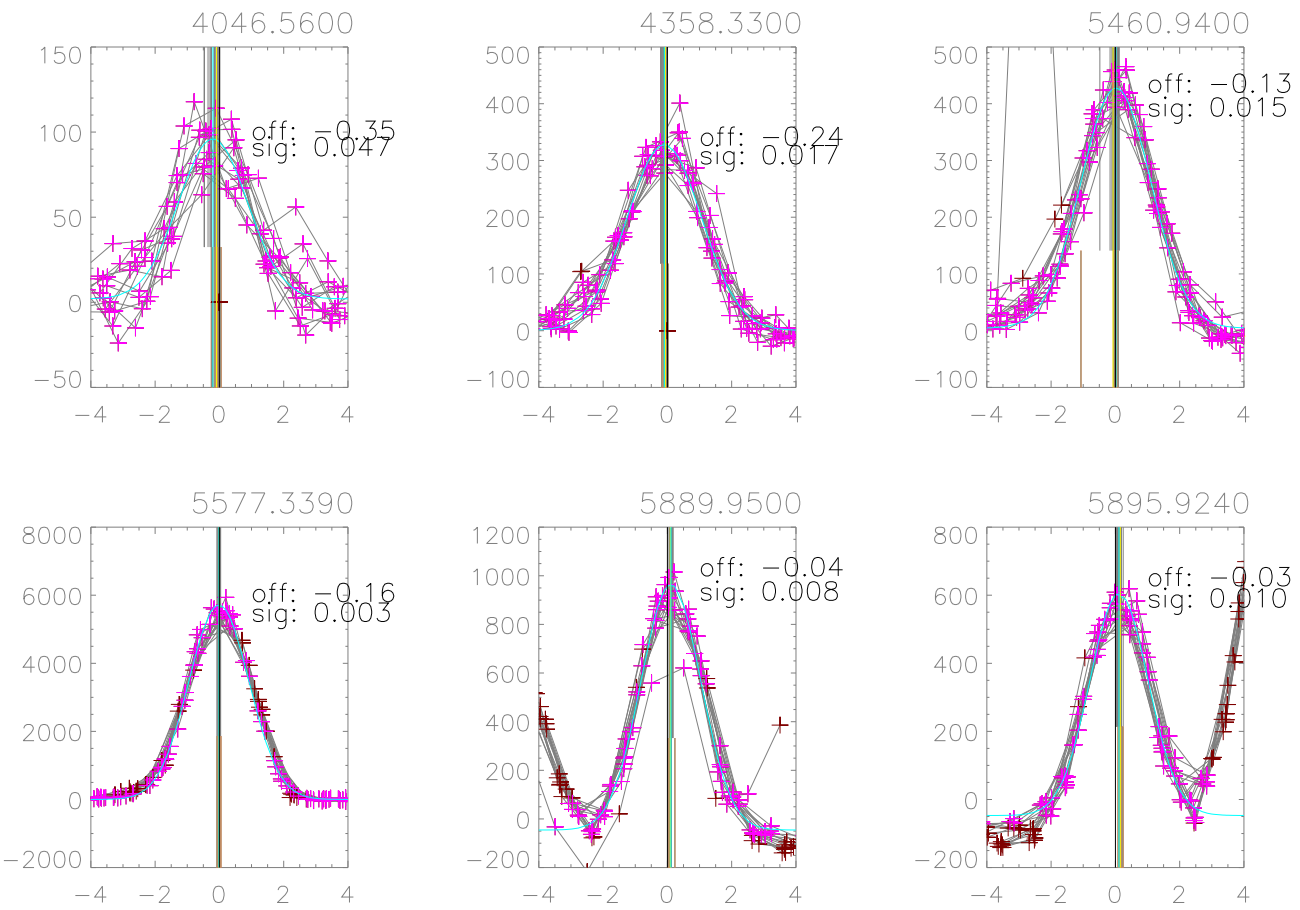

PLATE=3196 MJD=54834 Scattered Light before halo removal on sdR−b1−00057872.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
27.3
38.2

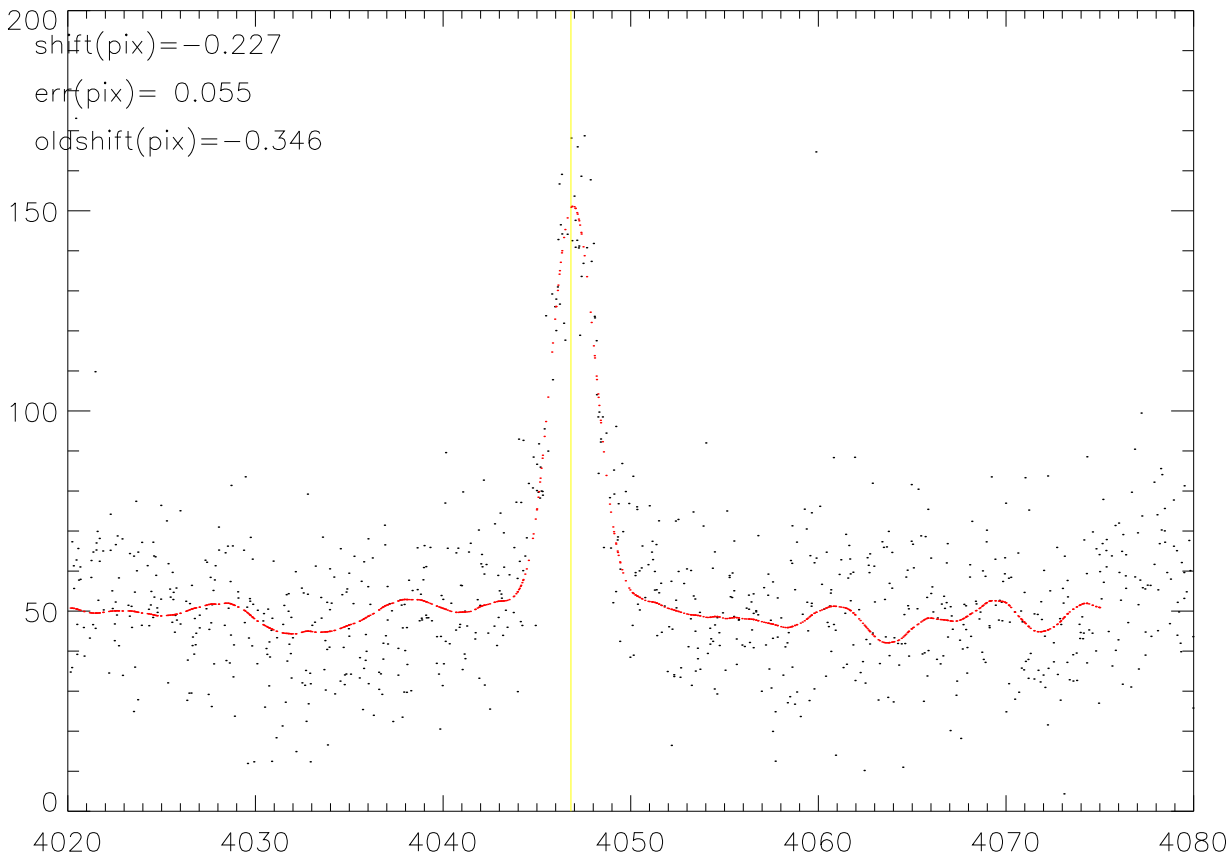

PLATE=3196 MJD=54834 Scattered Light before halo removal on sdR−b1−00057872.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 19.983
Max value = 32.104
Fri Mar 12 20:08:26 2010

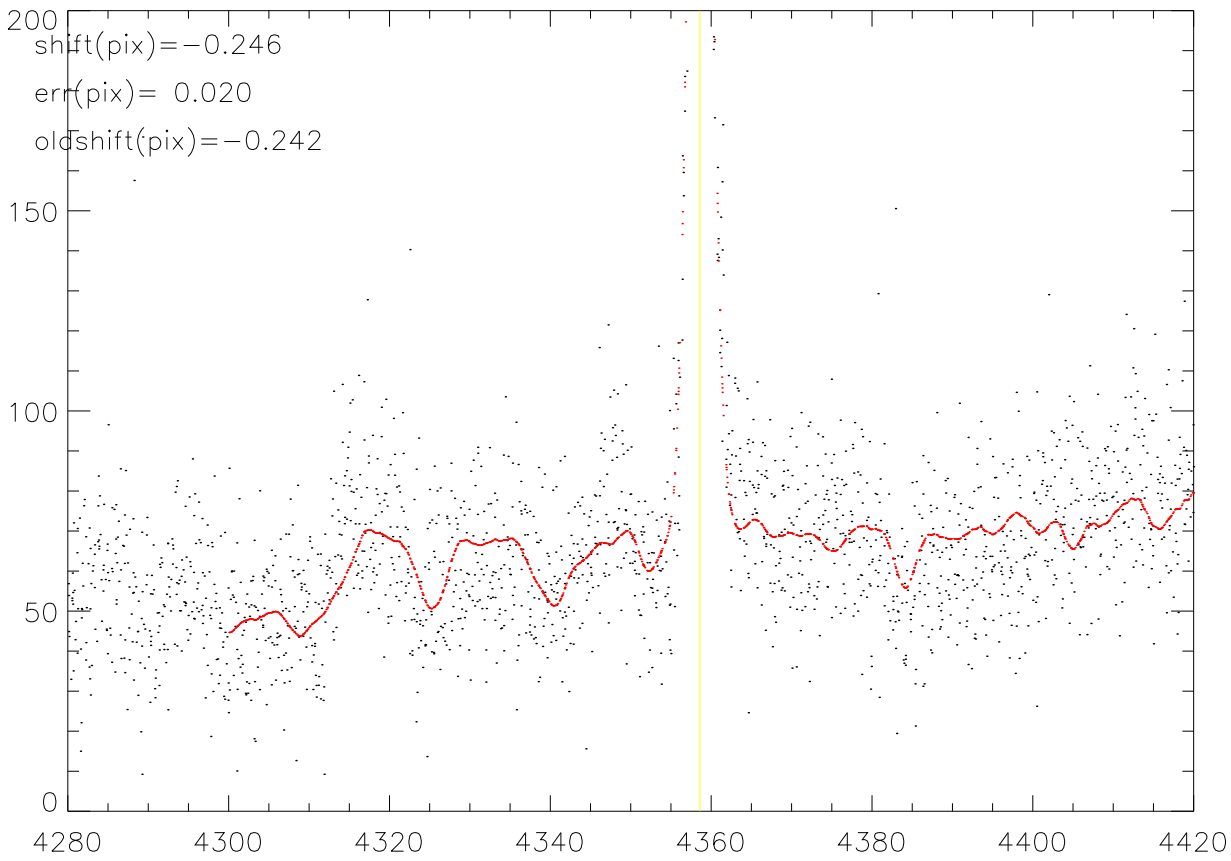

PLATE=3196 MJD=54834 Scattered Light on sdR-b1-00057872.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
22.73
13.64

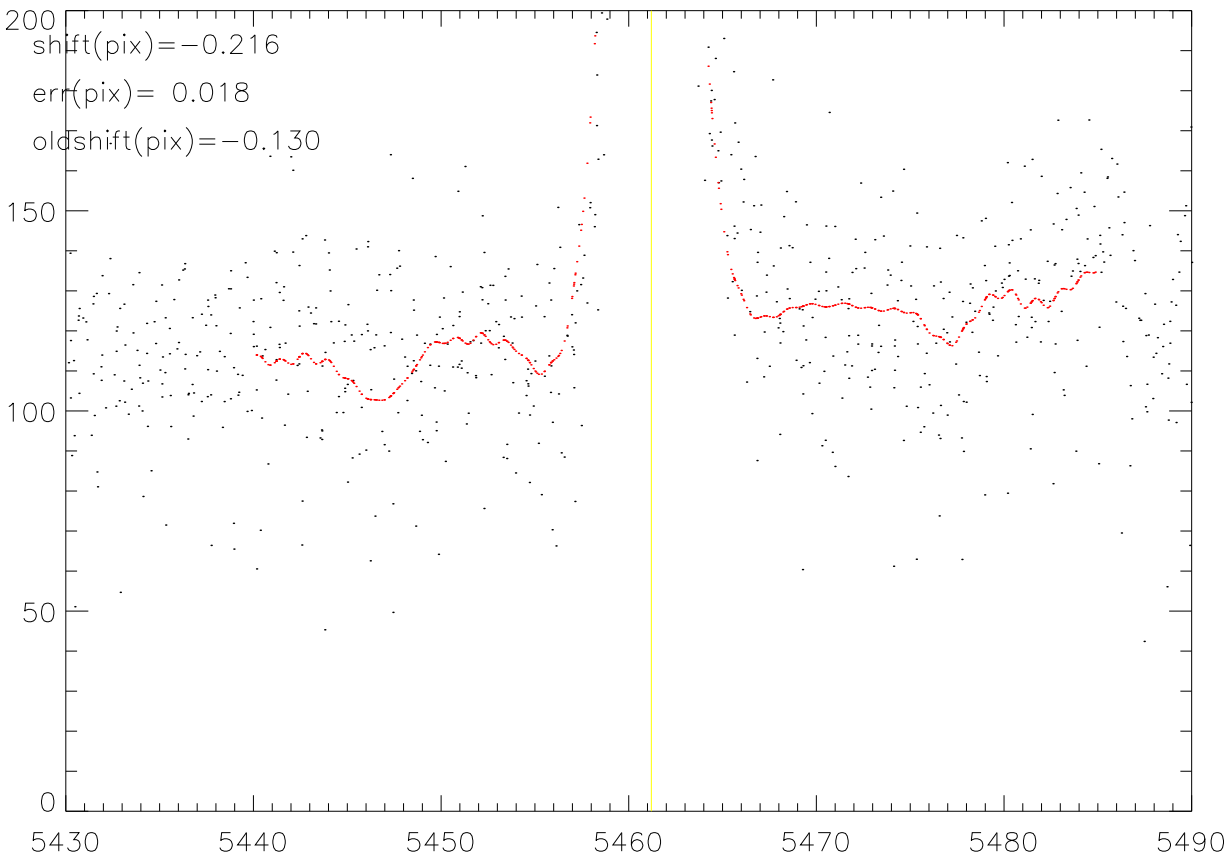

PLATE=3196 MJD=54834 Scattered Light on sdR-b1-00057872.fit
Brightness [electrons/pix]
50
40
30
20
10
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 13.861
Max value = 19.837
Fri Mar 12 20:12:24 2010

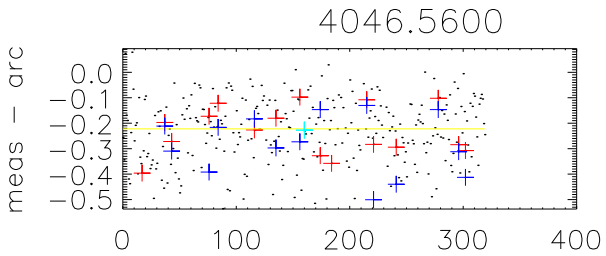

PLATE=3196 MJD=54834 Extraction chi^2 for sdR-b1-00057872.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
6
0
500
1000
1500
2000

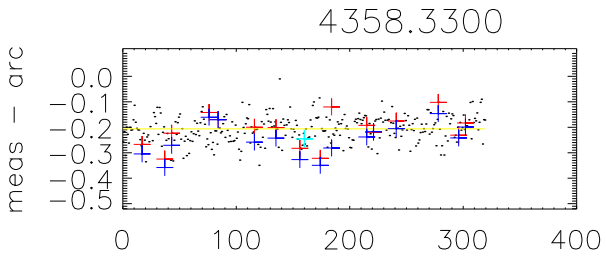

4046.5600
off: −0.35
sig: 0.047
4358.3300
off: −0.24
sig: 0.017
5460.9400
off: −0.13
sig: 0.015
5577.3390
off: −0.16
sig: 0.003
5889.9500
off: −0.04
sig: 0.008
5895.9240
off: −0.03
sig: 0.010

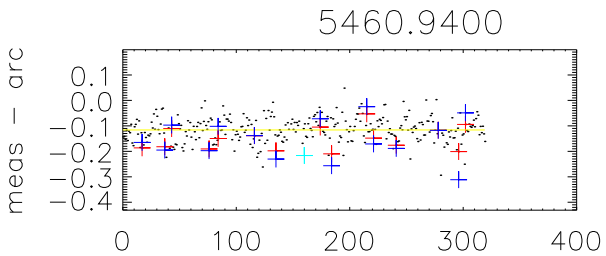

shift(pix)=−0.227
err(pix)= 0.055
oldshift(pix)=−0.346
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

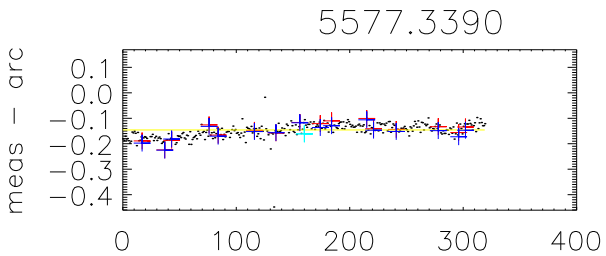

shift(pix)=−0.246
err(pix)= 0.020
oldshift(pix)=−0.242
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

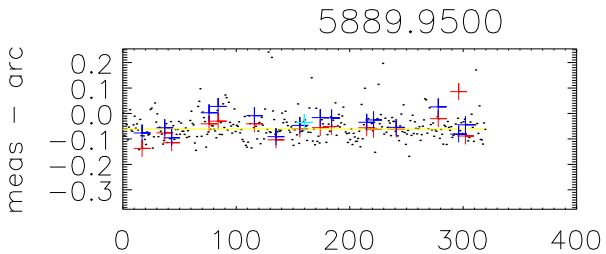

shift(pix)=−0.216
err(pix)= 0.018
oldshift(pix)=−0.130
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

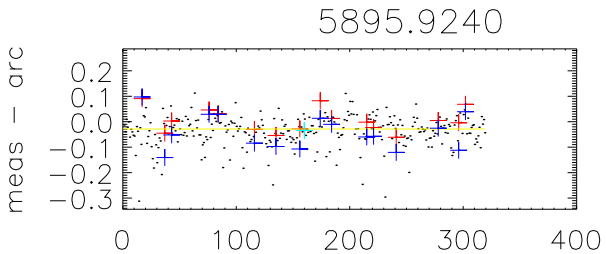

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

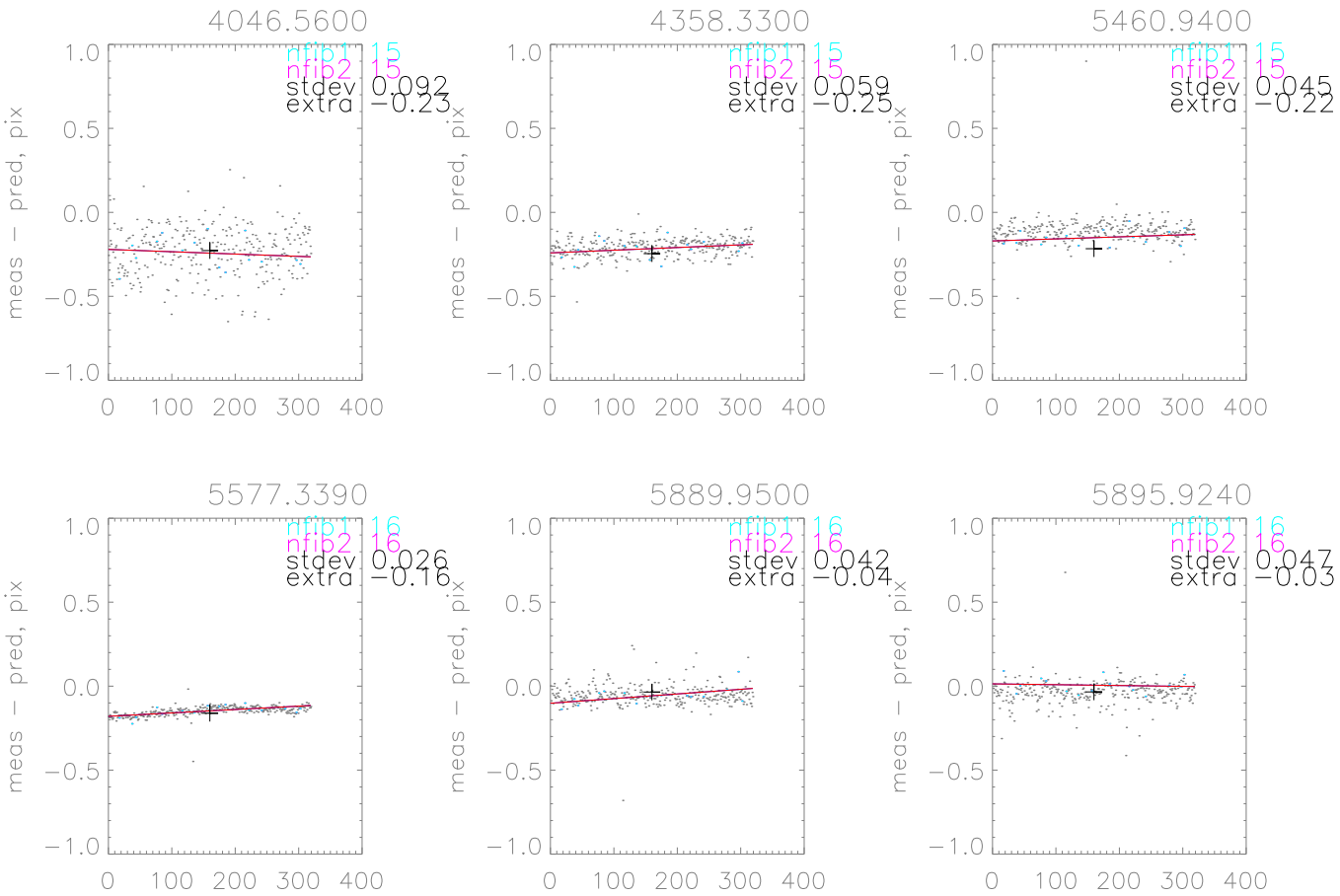

4358.3300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

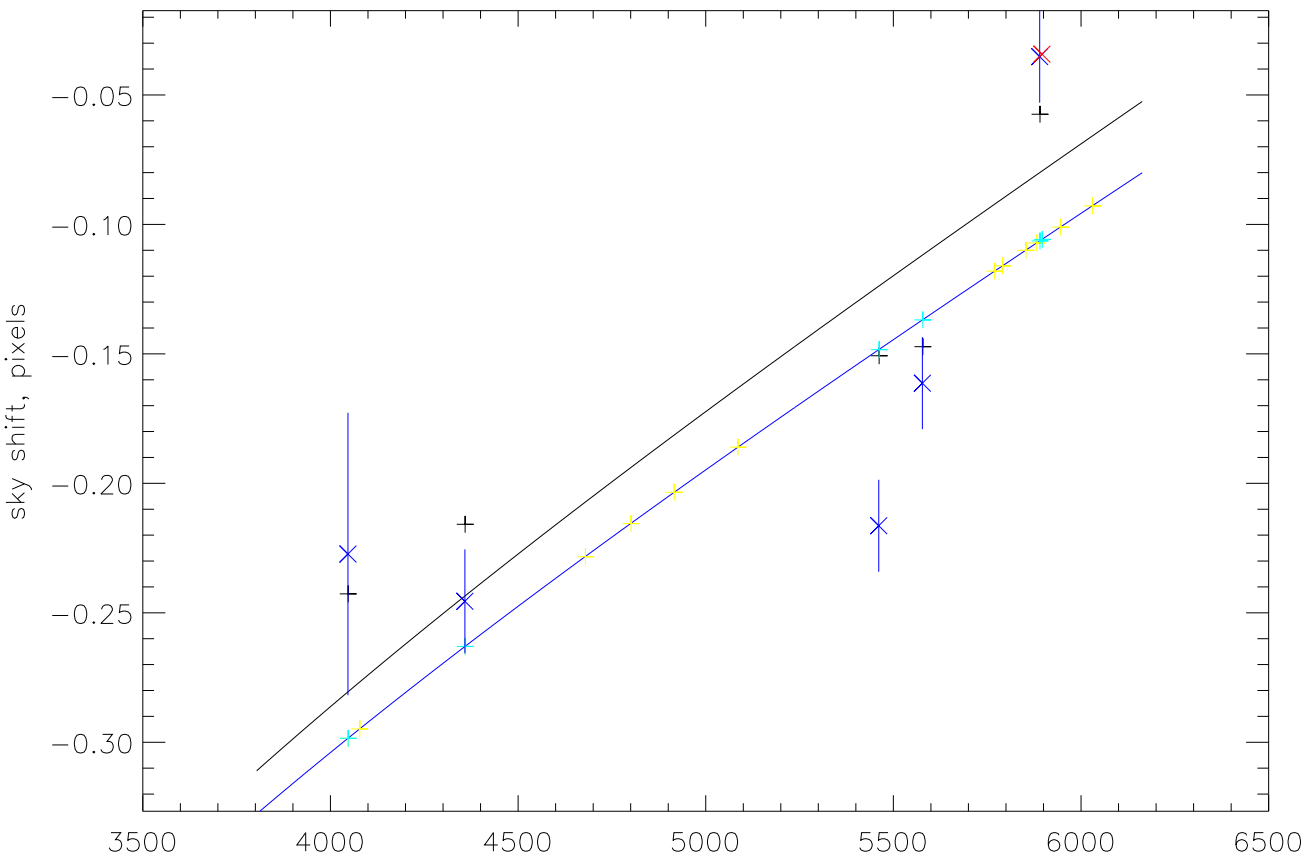

5460.9400
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


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

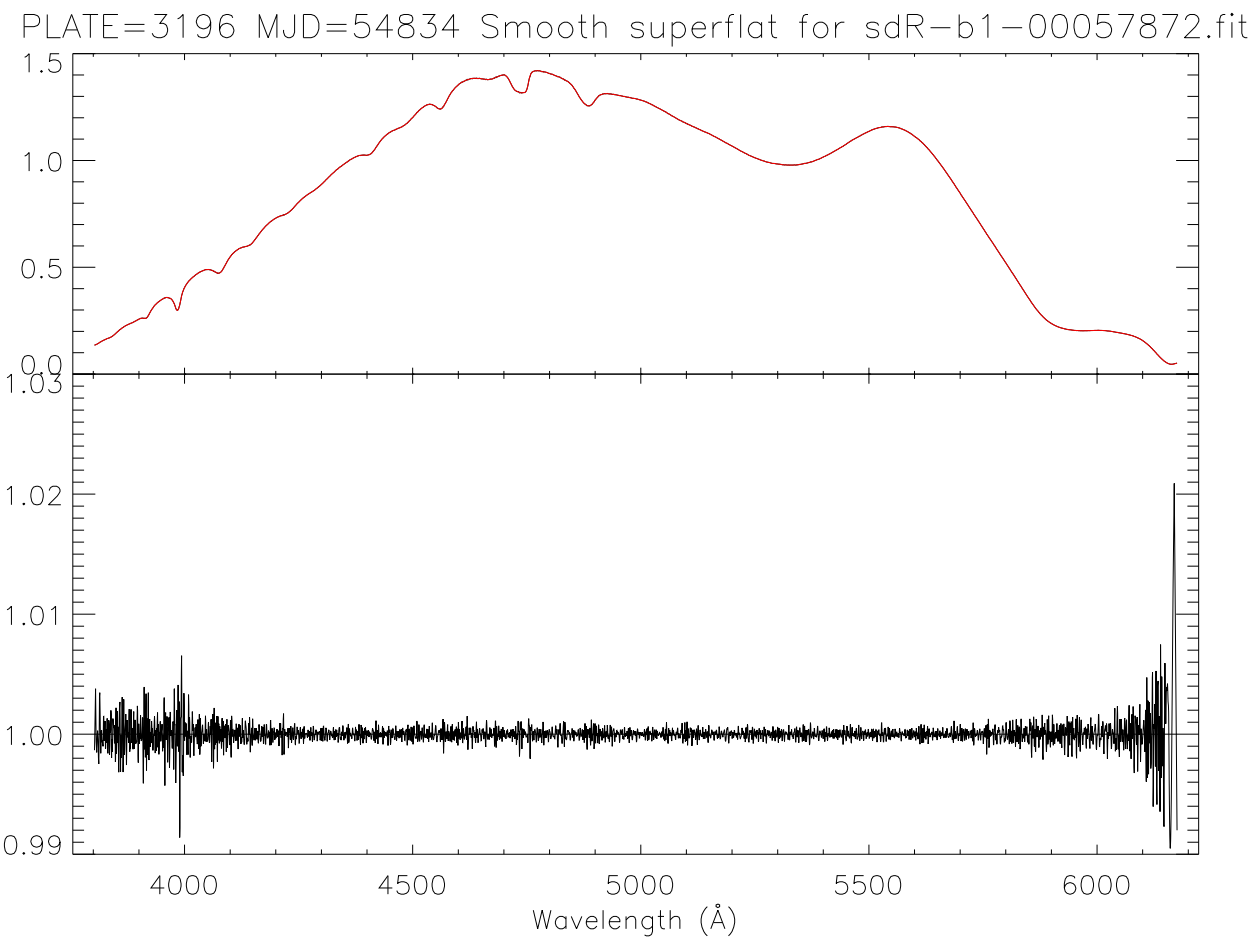

5889.9500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

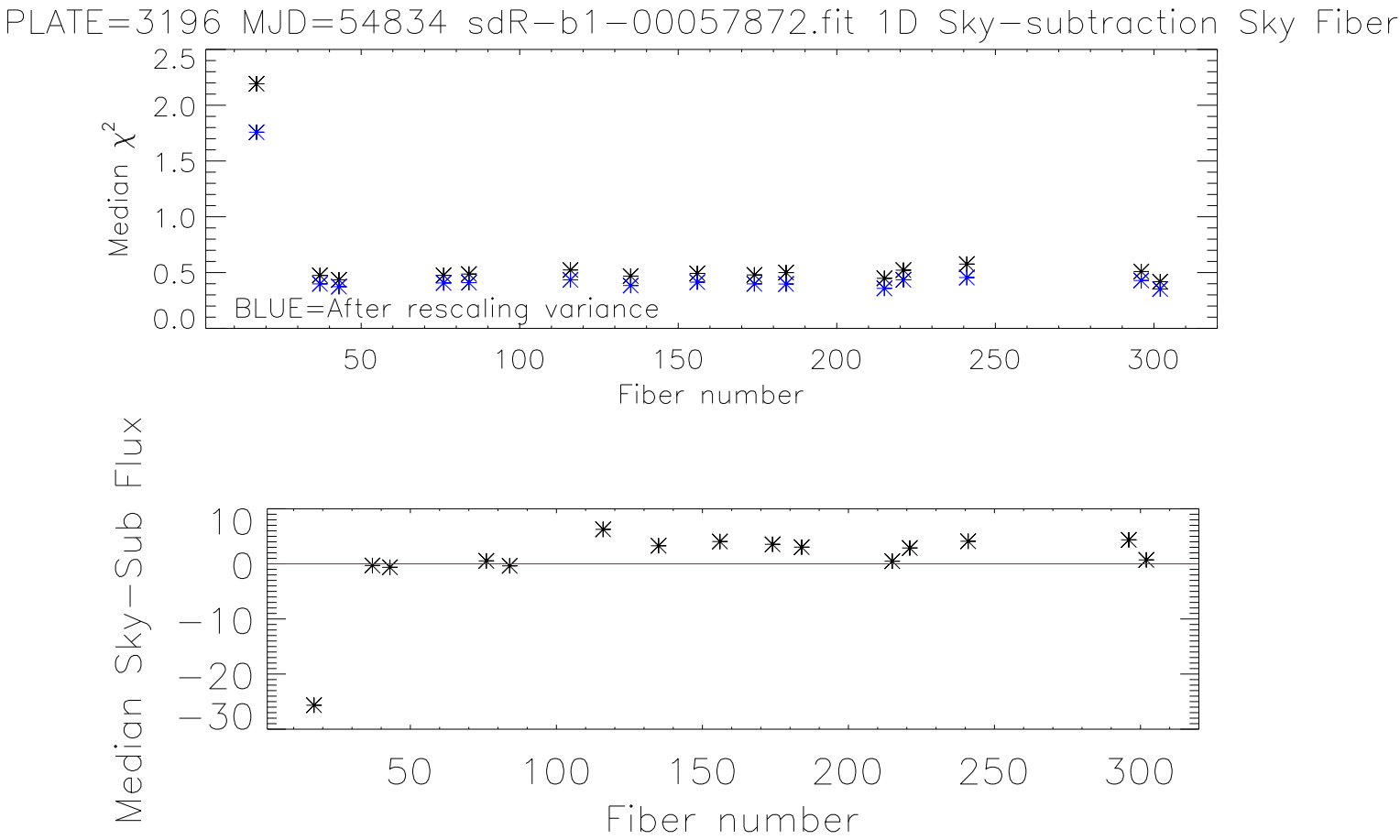

5895.9240
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

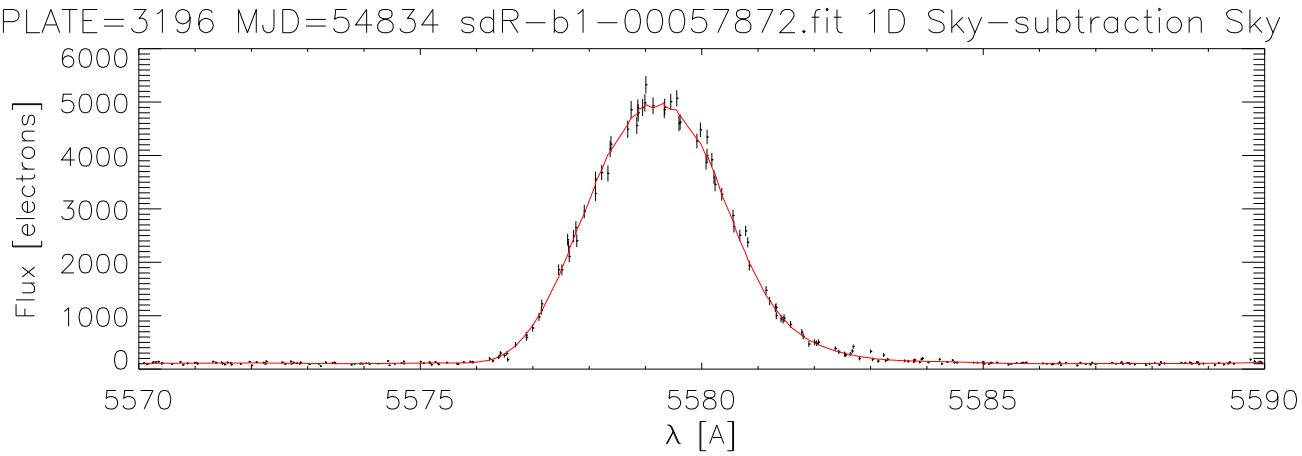

4046.5600
nfib1 15
nfib2 15
stdev 0.092
extra −0.23
4358.3300
nfib1 15
nfib2 15
stdev 0.059
extra −0.25
5460.9400
nfib1 15
nfib2 15
stdev 0.045
extra −0.22
5577.3390
nfib1 16
nfib2 16
stdev 0.026
extra −0.16
5889.9500
nfib1 16
nfib2 16
stdev 0.042
extra −0.04
5895.9240
nfib1 16
nfib2 16
stdev 0.047
extra −0.03
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

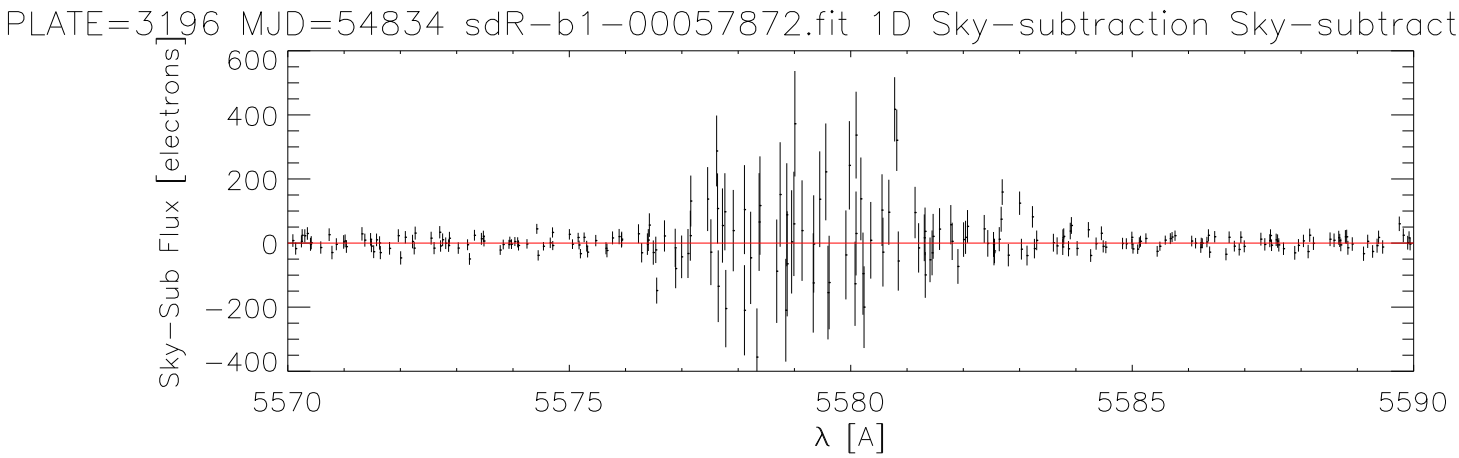

sky shift, pixels
−0.05
−0.10
−0.15
−0.20
−0.25
−0.30
3500
4000
4500
5000
5500
6000
6500

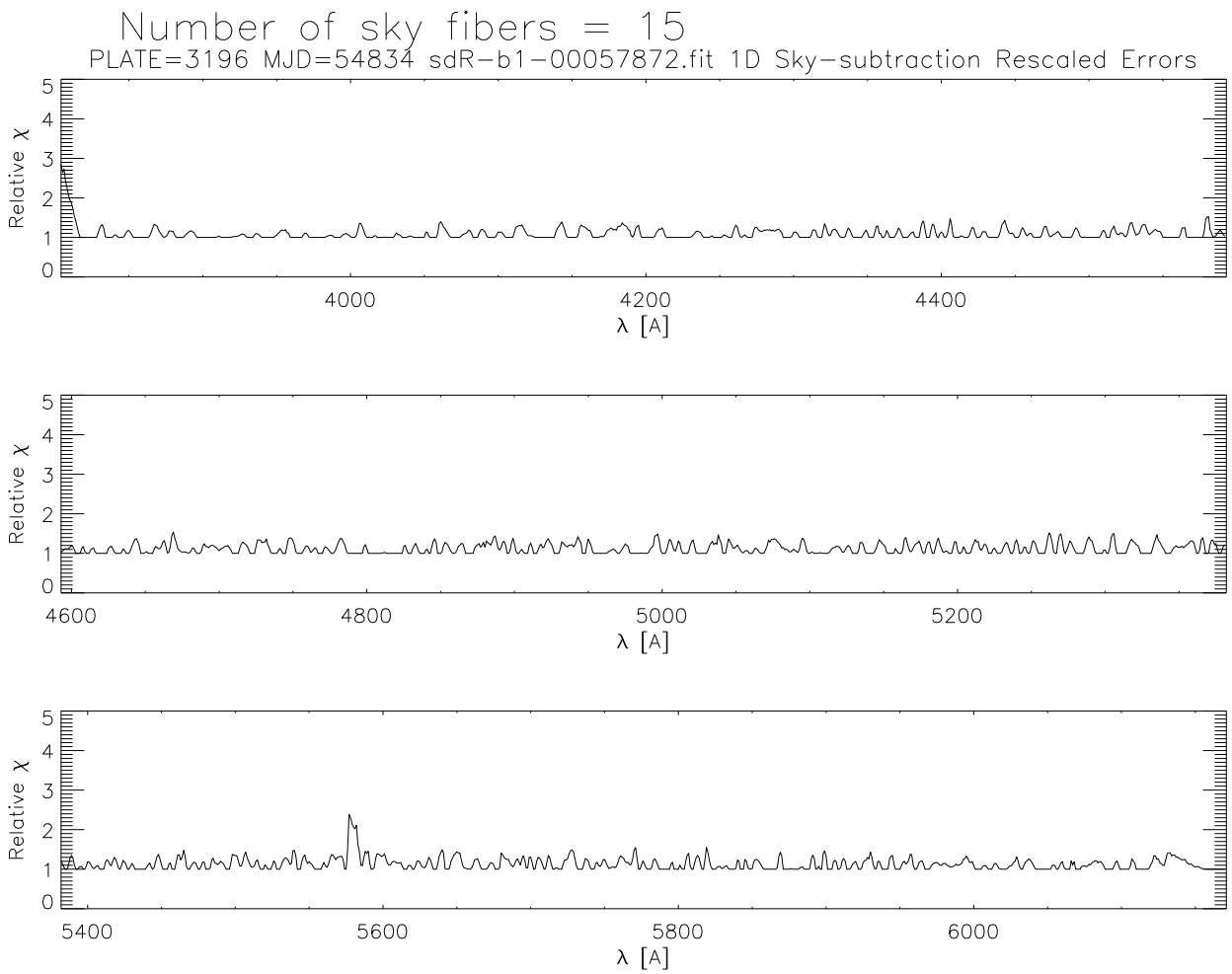
es= −0.0001

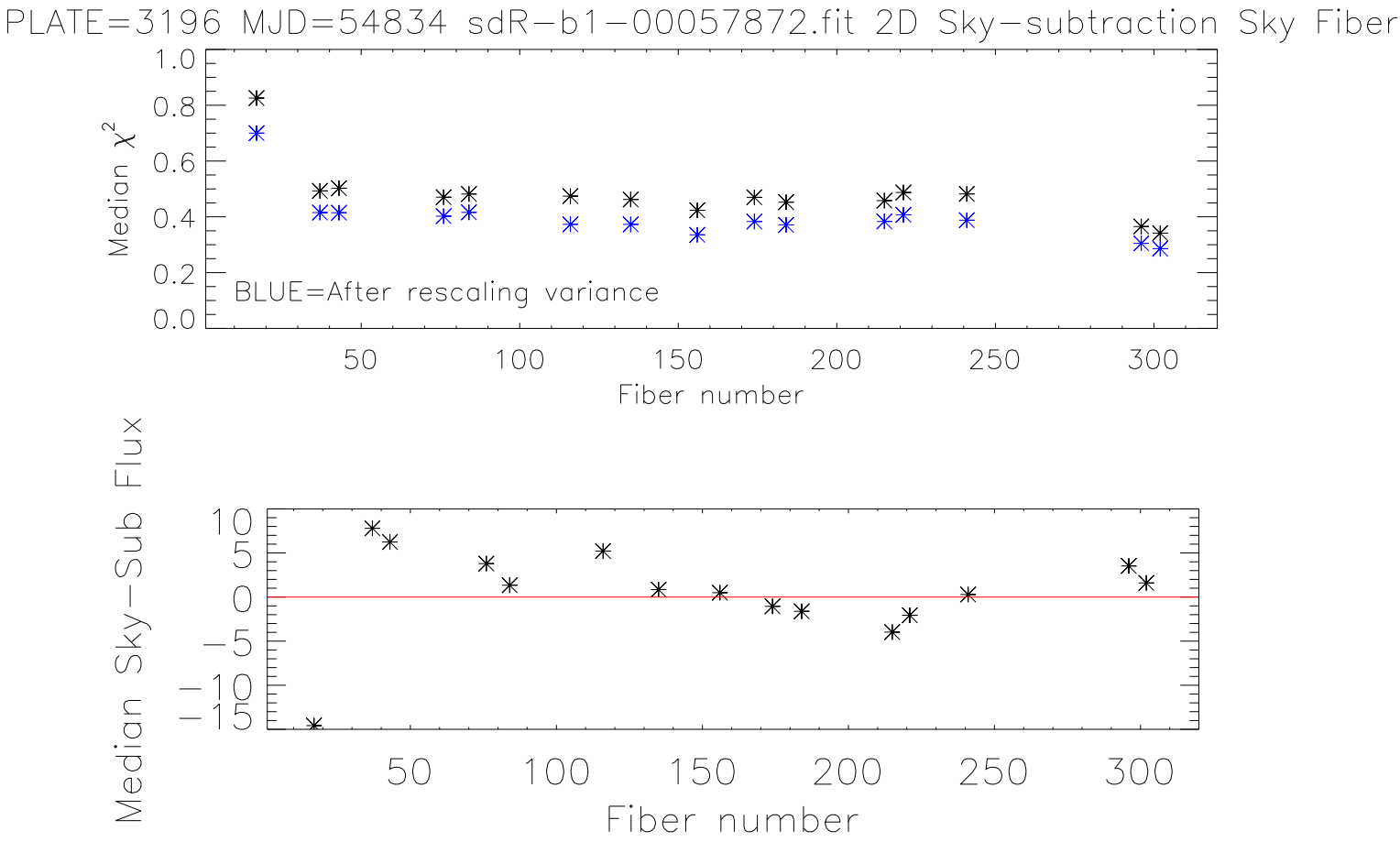

PLATE=3196 MJD=54834 Smooth superflat for sdR−b1−00057872.fit
1.5
1.0
0.5
0.0
1.03
1.02
1.01
1.00
0.99
4000
4500
5000
5500
6000
Wavelength (Å)

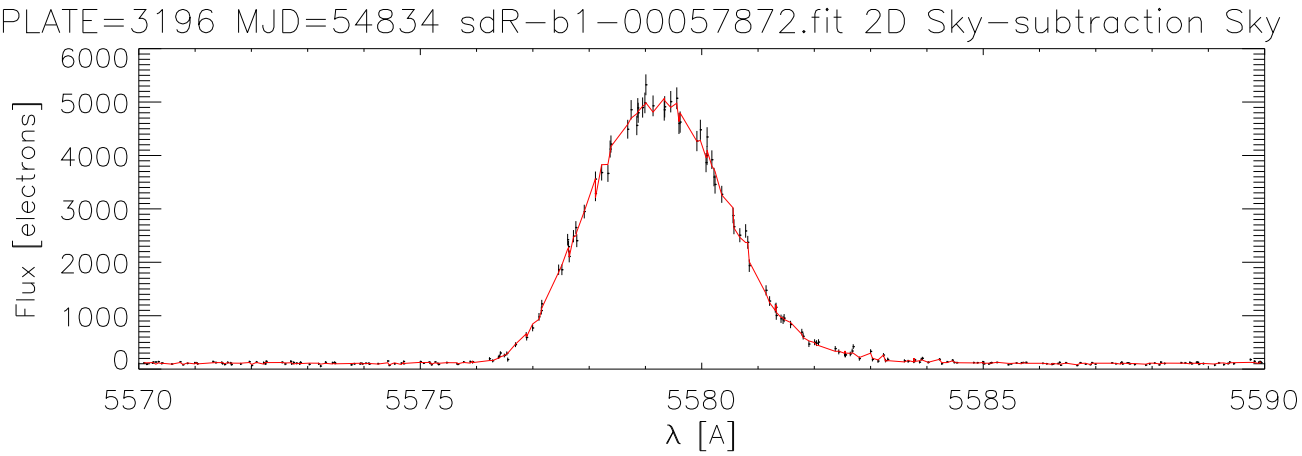

PLATE=3196 MJD=54834 sdR-b1-00057872.fit 1D Sky-subtraction Sky Fiber
Median χ^2
2.5
2.0
1.5
1.0
0.5
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
0
-10
-20
-30
50
100
150
200
250
300
Fiber number

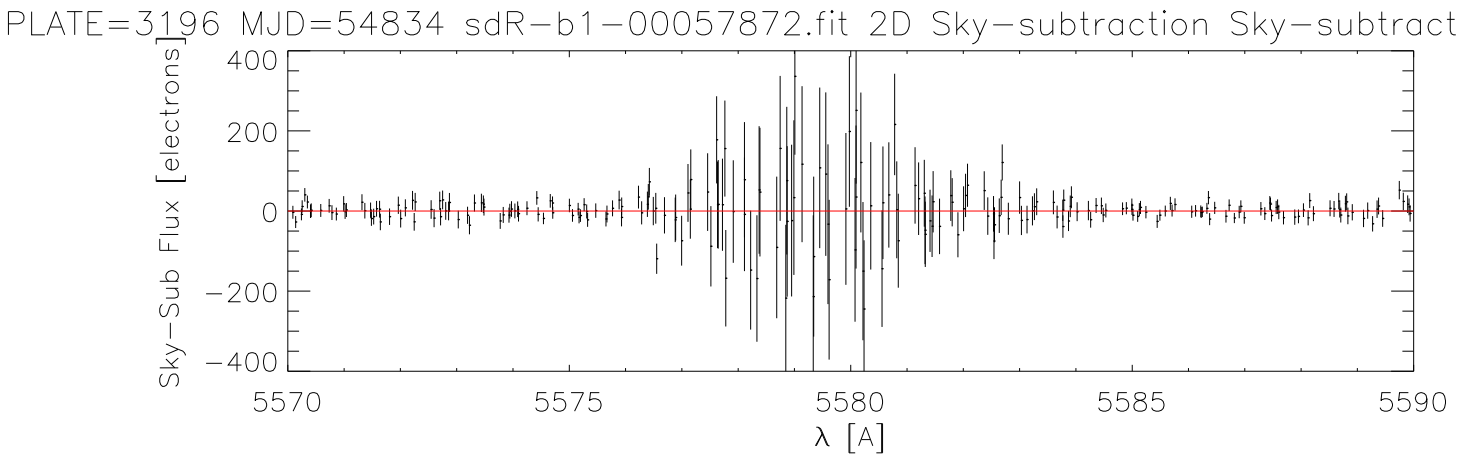

PLATE=3196 MJD=54834 sdR-b1-00057872.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

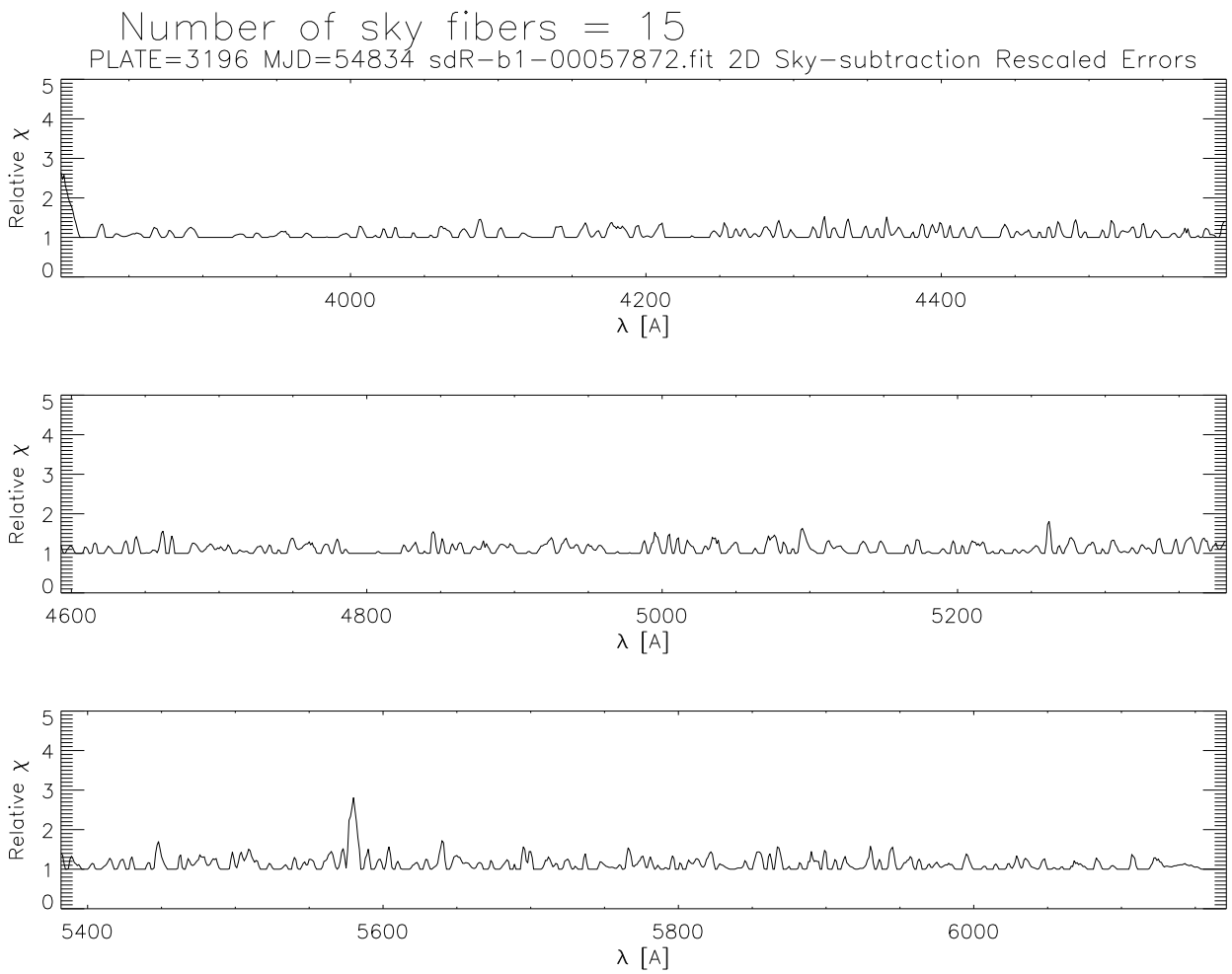

PLATE=3196 MJD=54834 sdR-b1-00057872.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

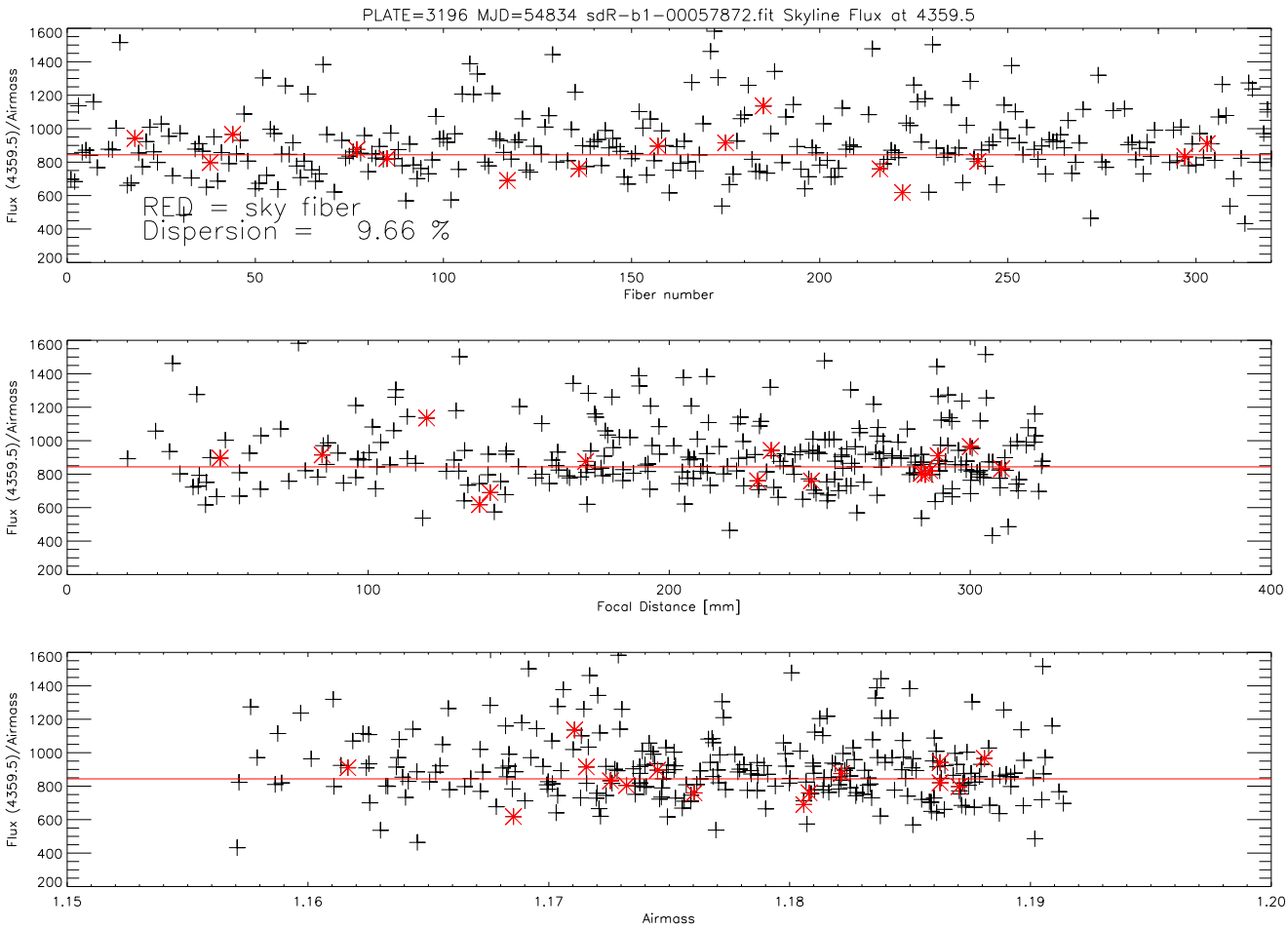

Number of sky fibers = 15
PLATE=3196 MJD=54834 sdR-b1-00057872.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

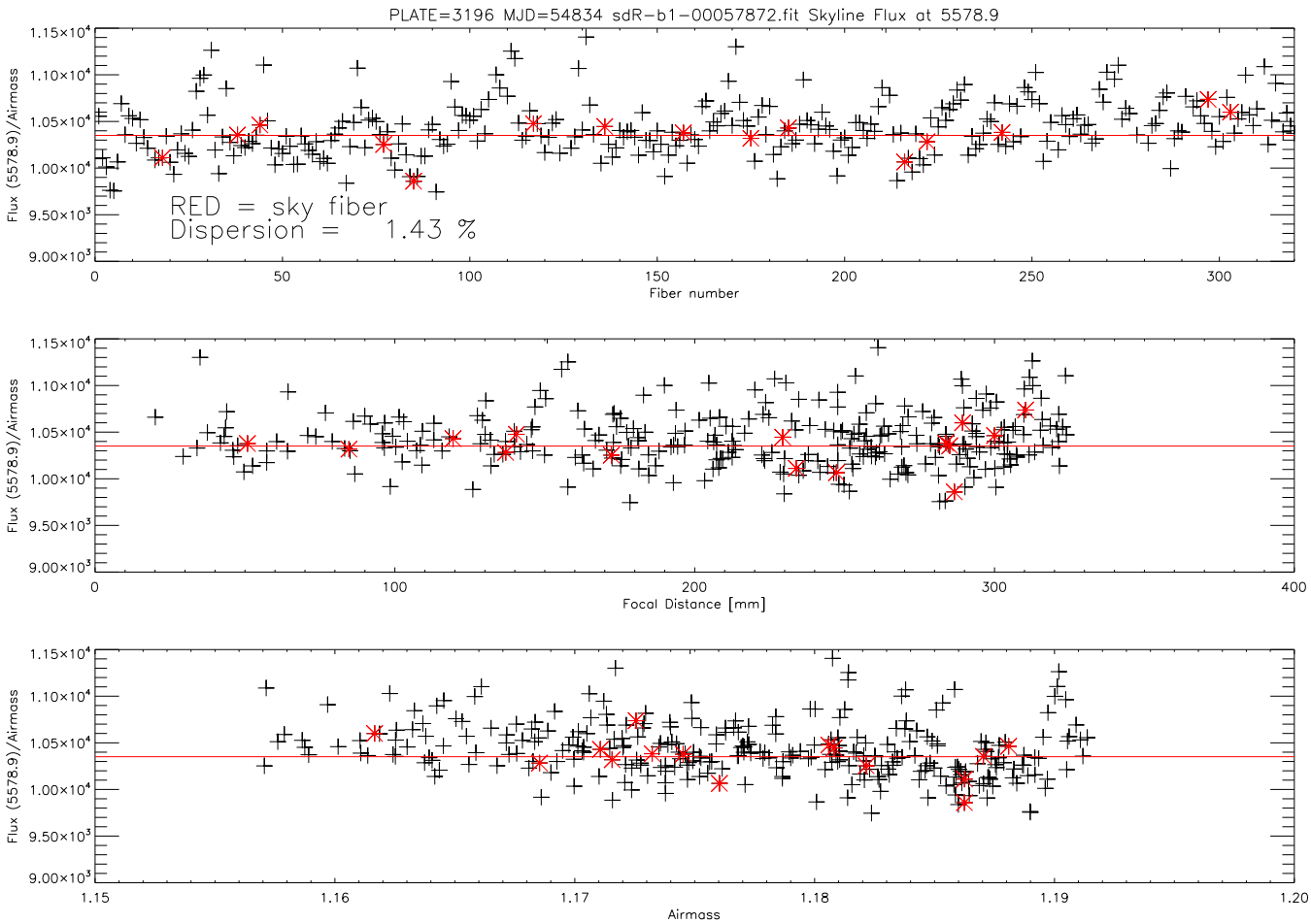

PLATE=3196 MJD=54834 sdR-b1-00057872.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

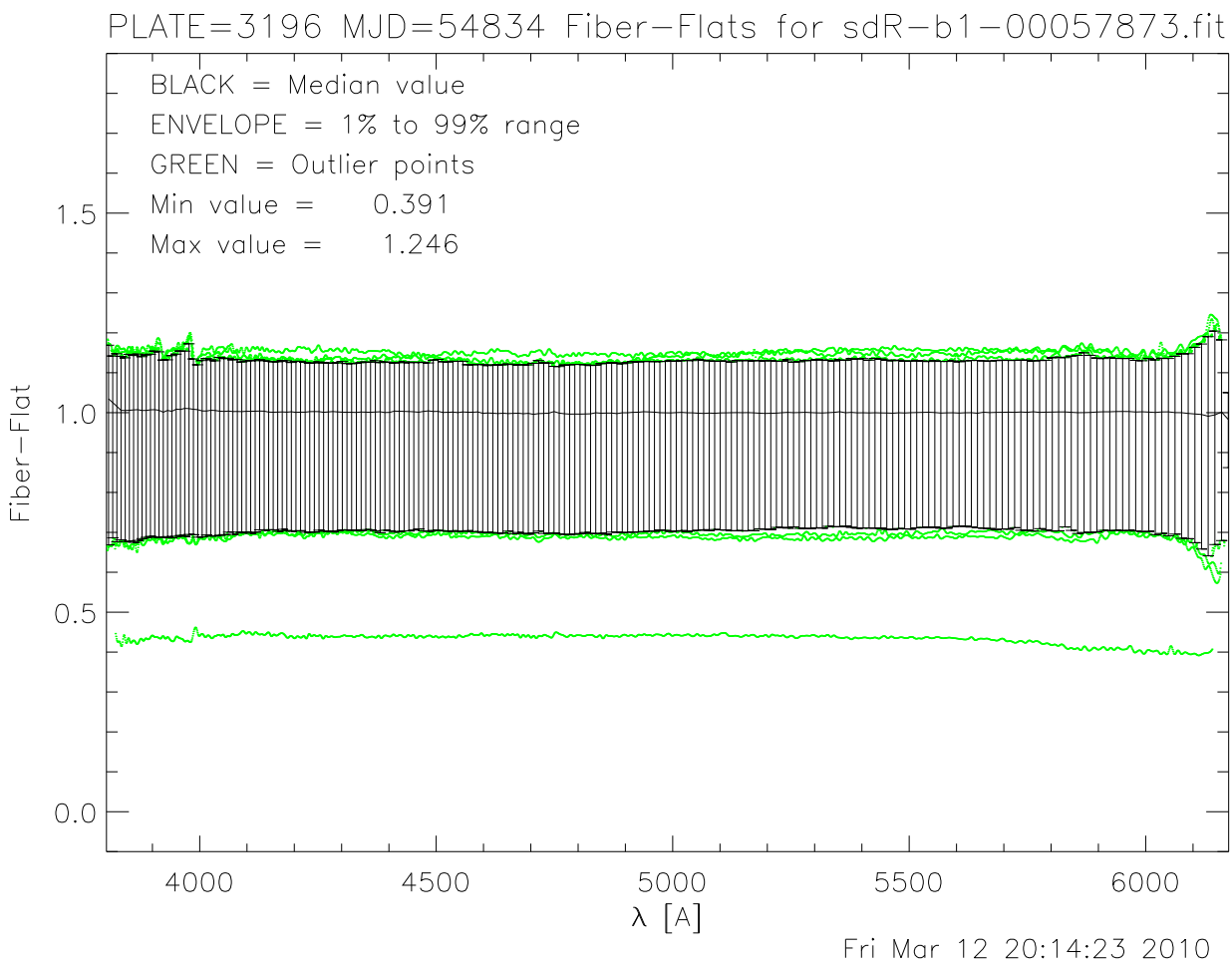

PLATE=3196 MJD=54834 sdR-b1-00057872.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

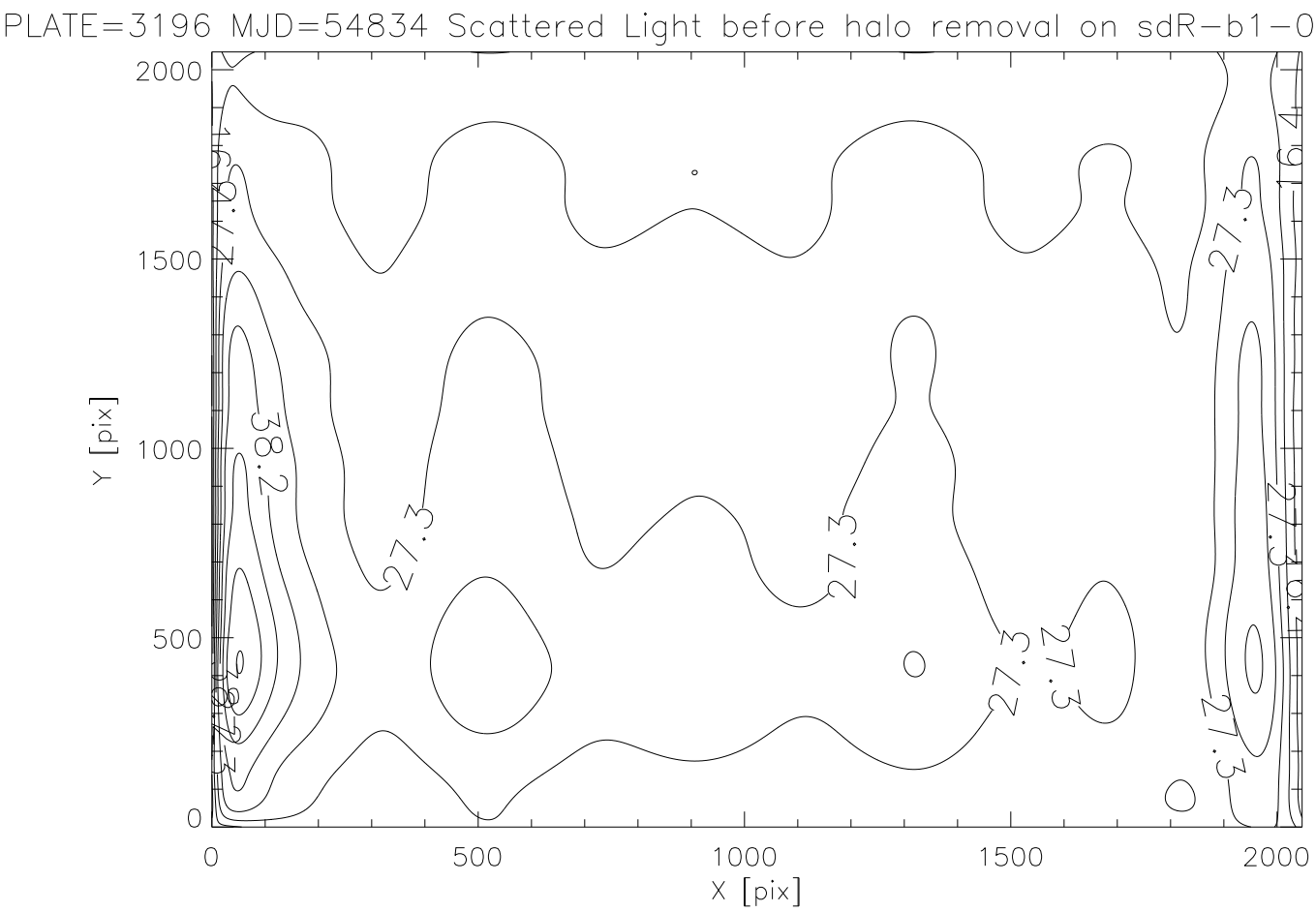

PLATE=3196 MJD=54834 sdR-b1-00057872.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

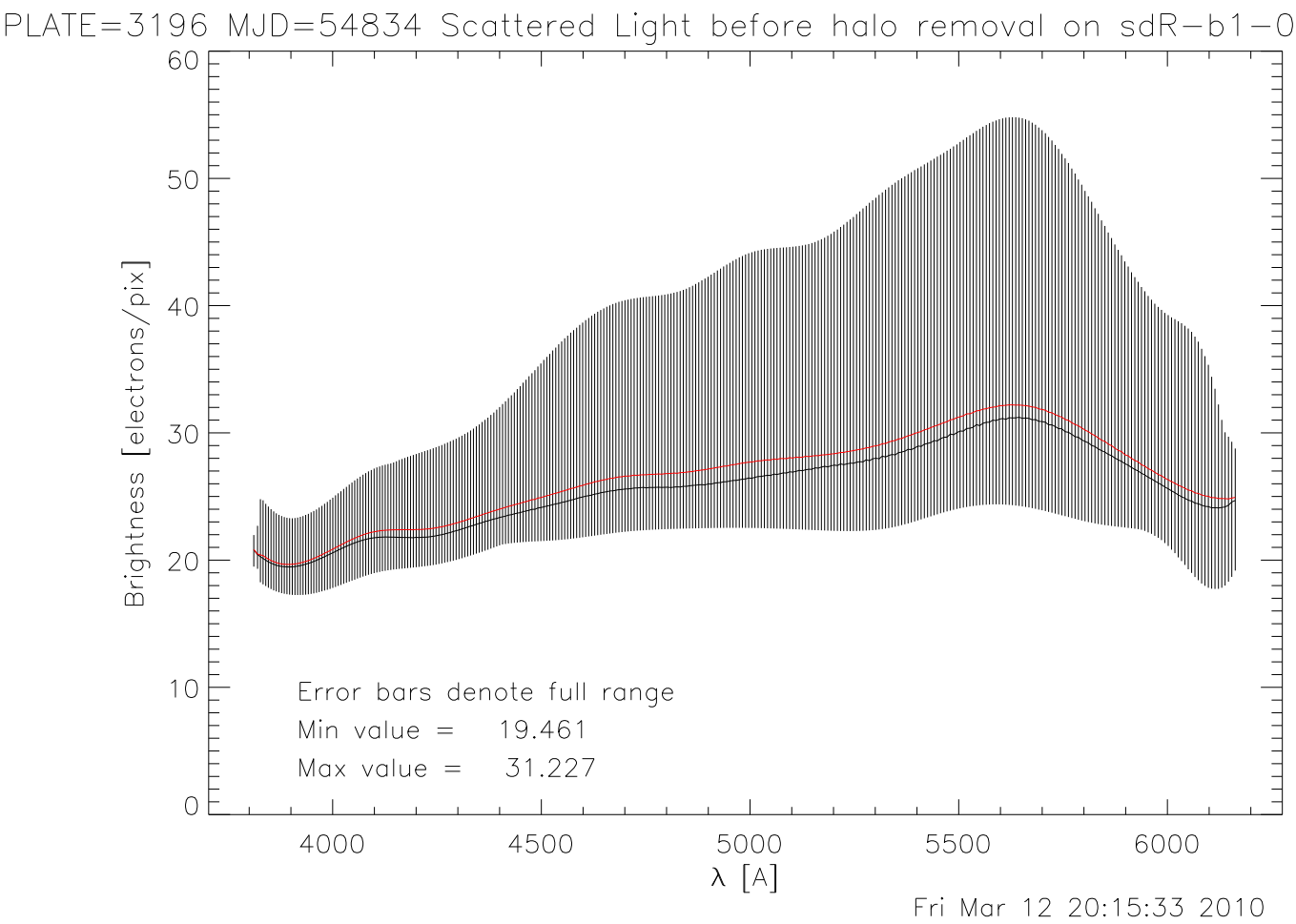

Number of sky fibers = 15
PLATE=3196 MJD=54834 sdR-b1-00057872.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

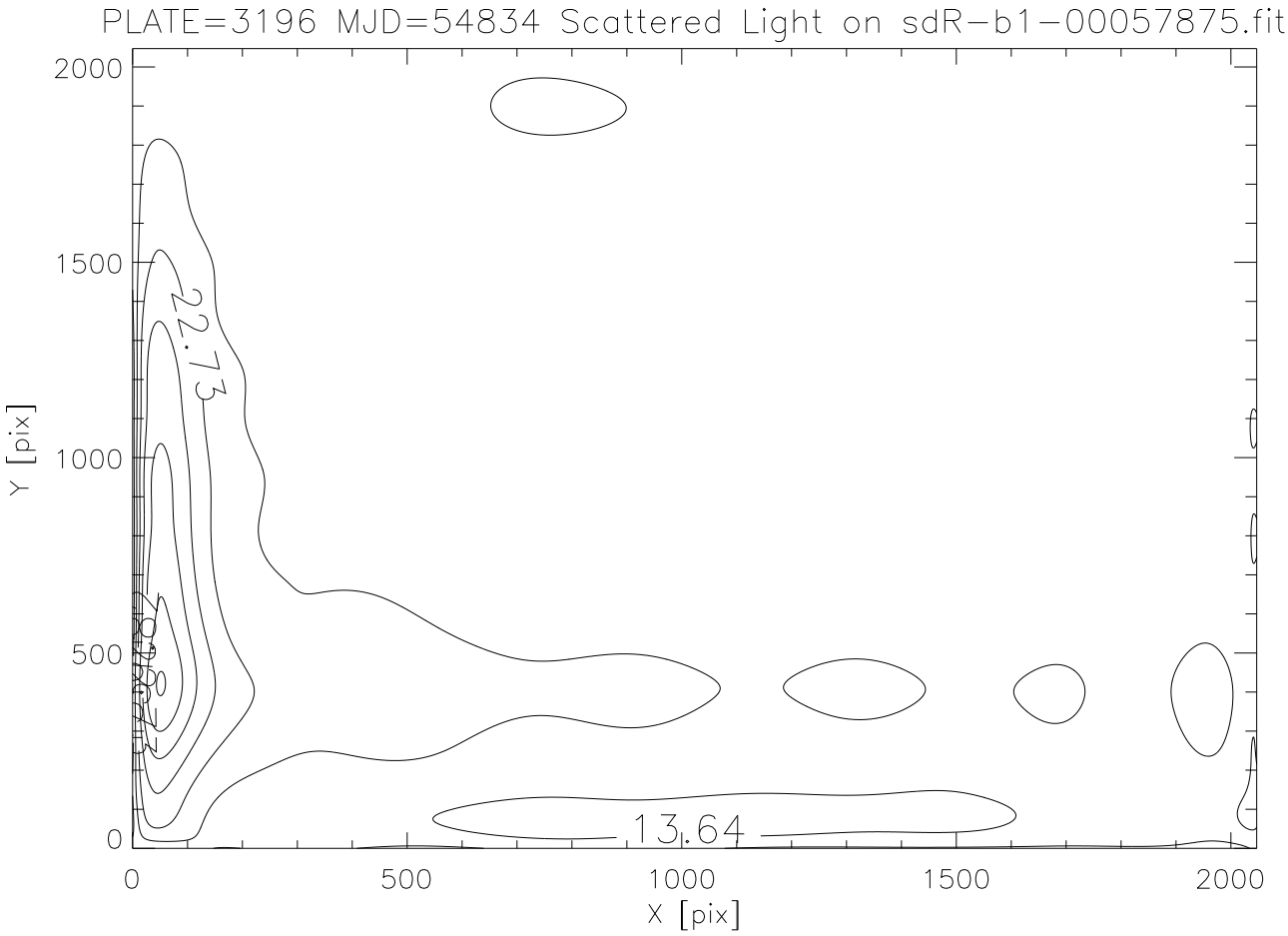

PLATE=3196 MJD=54834 sdR-b1-00057872.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 9.66 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

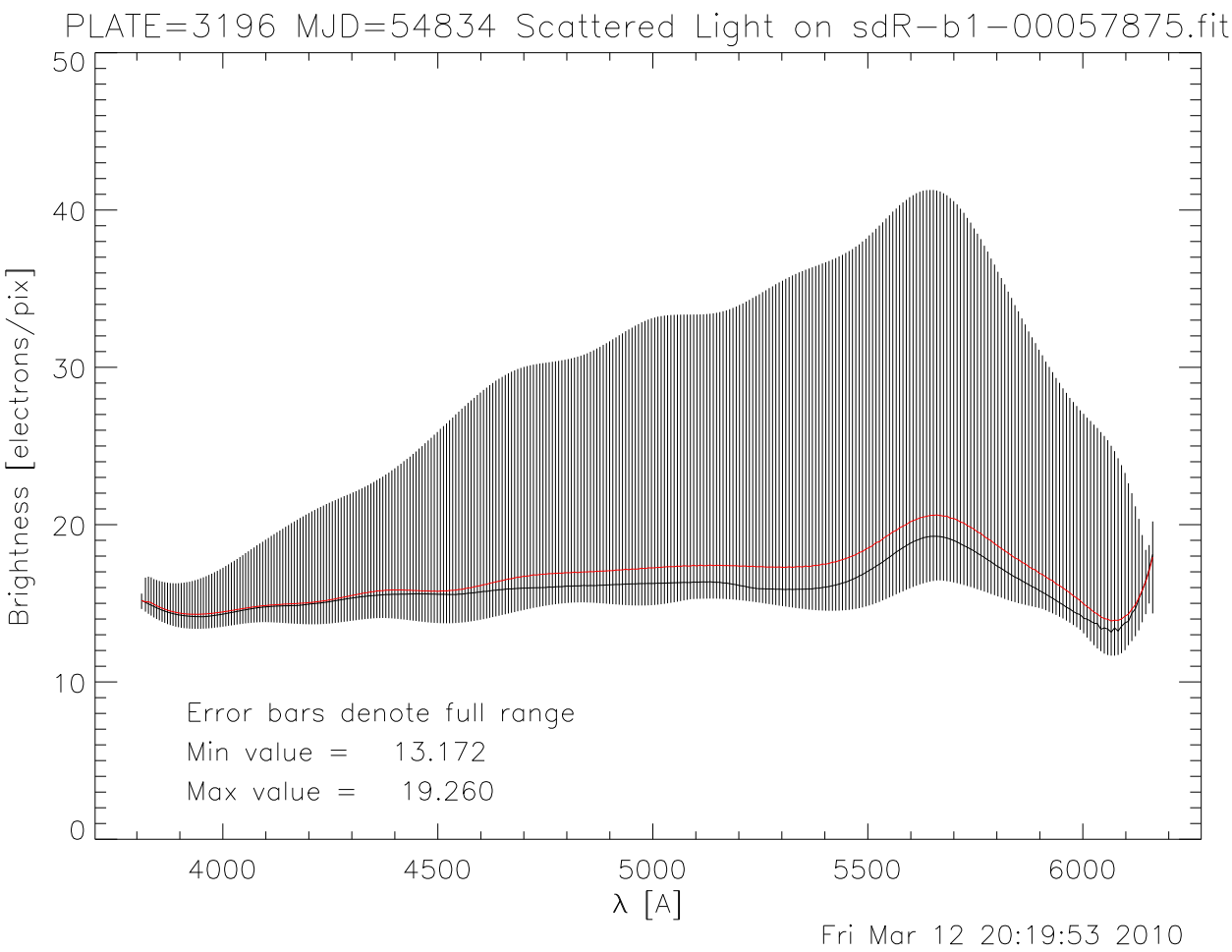

PLATE=3196 MJD=54834 sdR-b1-00057872.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.43 %
Fiber number
Focal Distance [mm]
Airmass

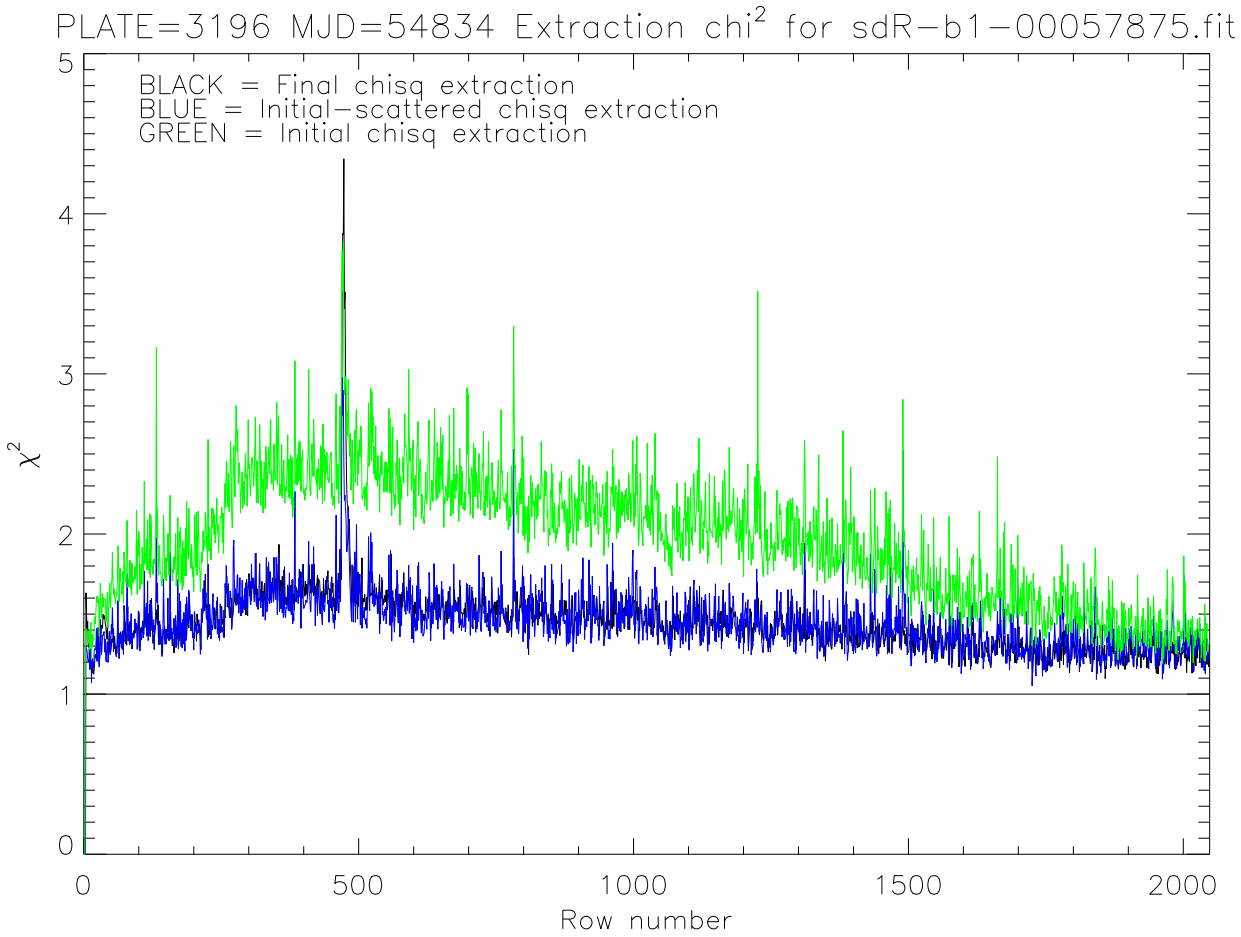

PLATE=3196 MJD=54834 Fiber-Flats for sdR-b1-00057873.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.391
Max value = 1.246
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Fri Mar 12 20:14:23 2010

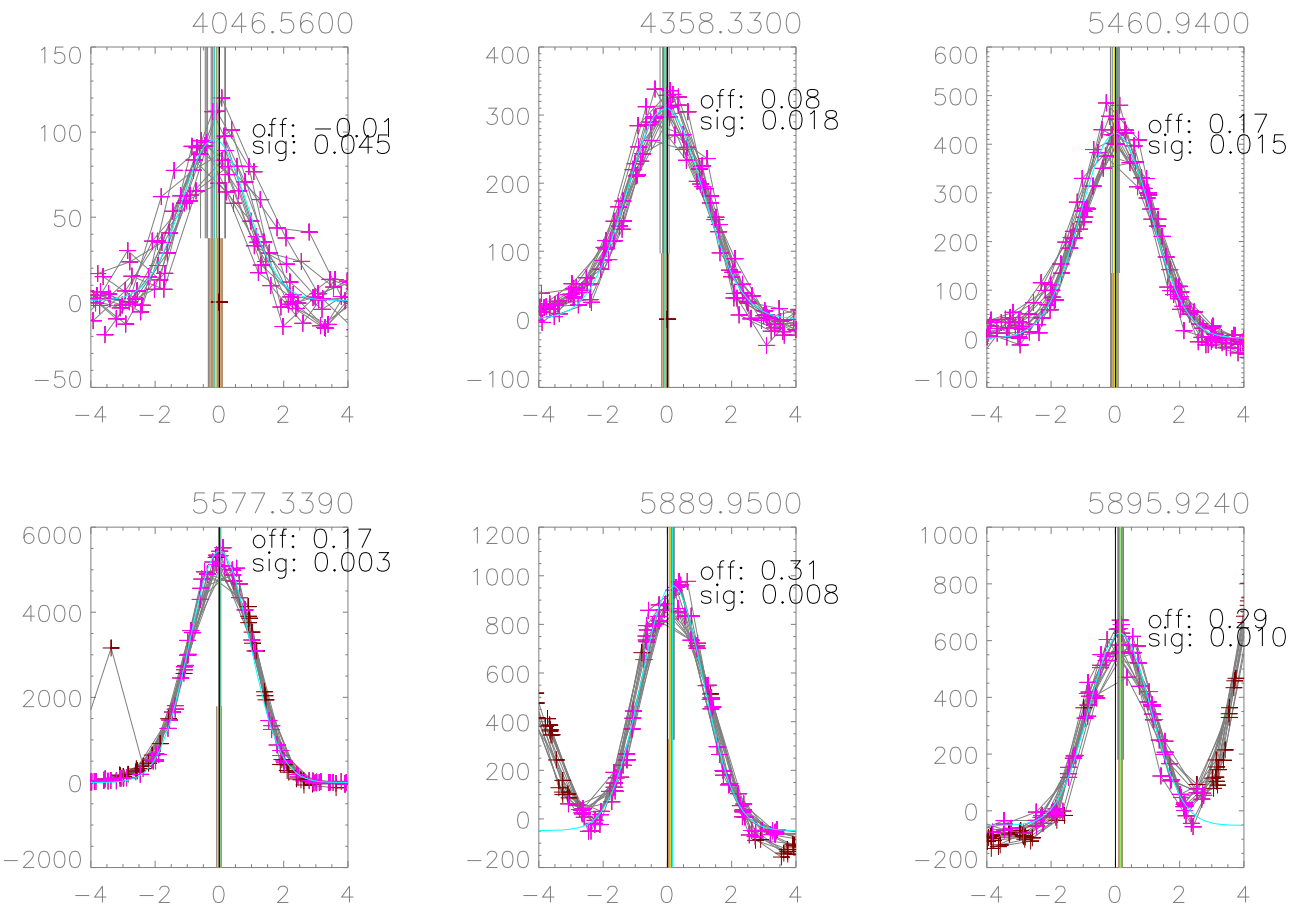

PLATE=3196 MJD=54834 Scattered Light before halo removal on sdR-b1-00057875.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
27.3
38.2
16.4

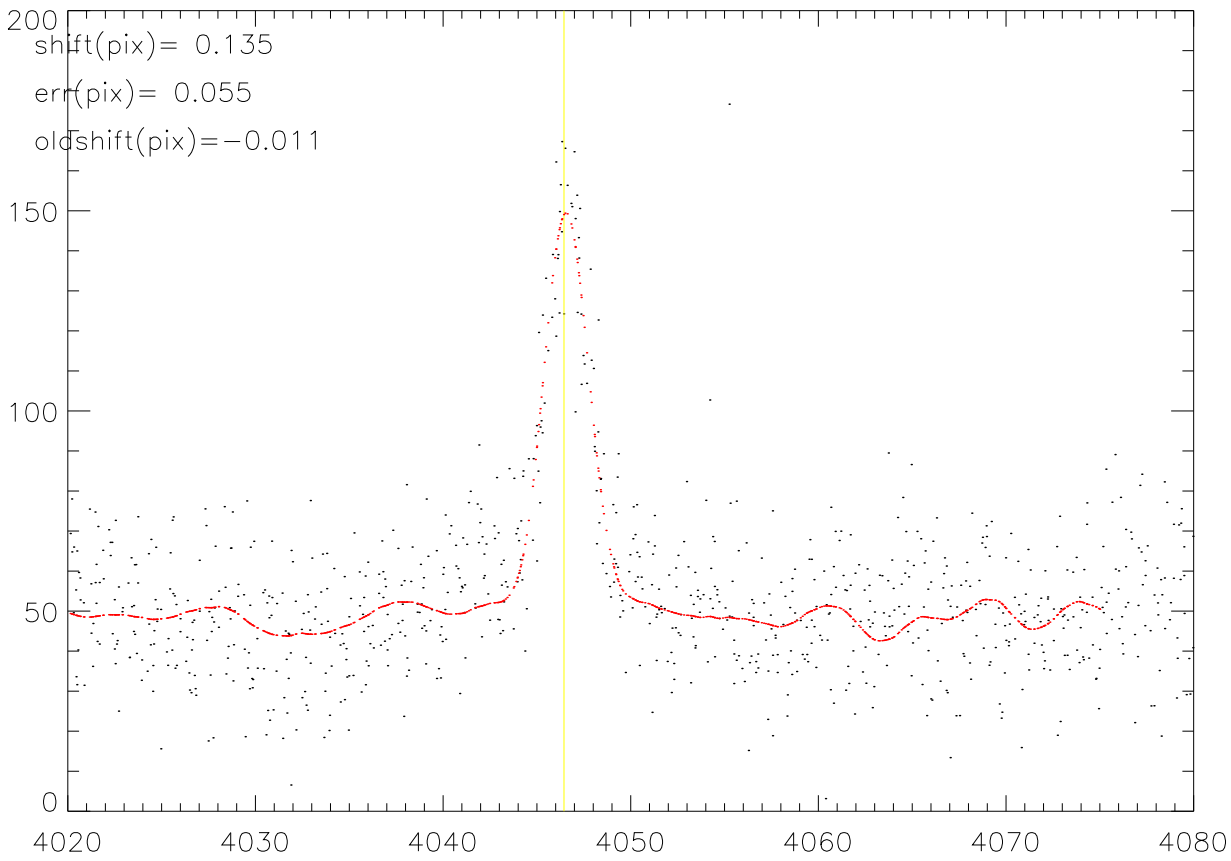

PLATE=3196 MJD=54834 Scattered Light before halo removal on sdR-b1-00057875.f
Brightness [electrons/pix]
60
50
40
30
20
10
0
Error bars denote full range
Min value = 19.461
Max value = 31.227
4000
4500
5000
5500
6000
λ [A]
Fri Mar 12 20:15:33 2010

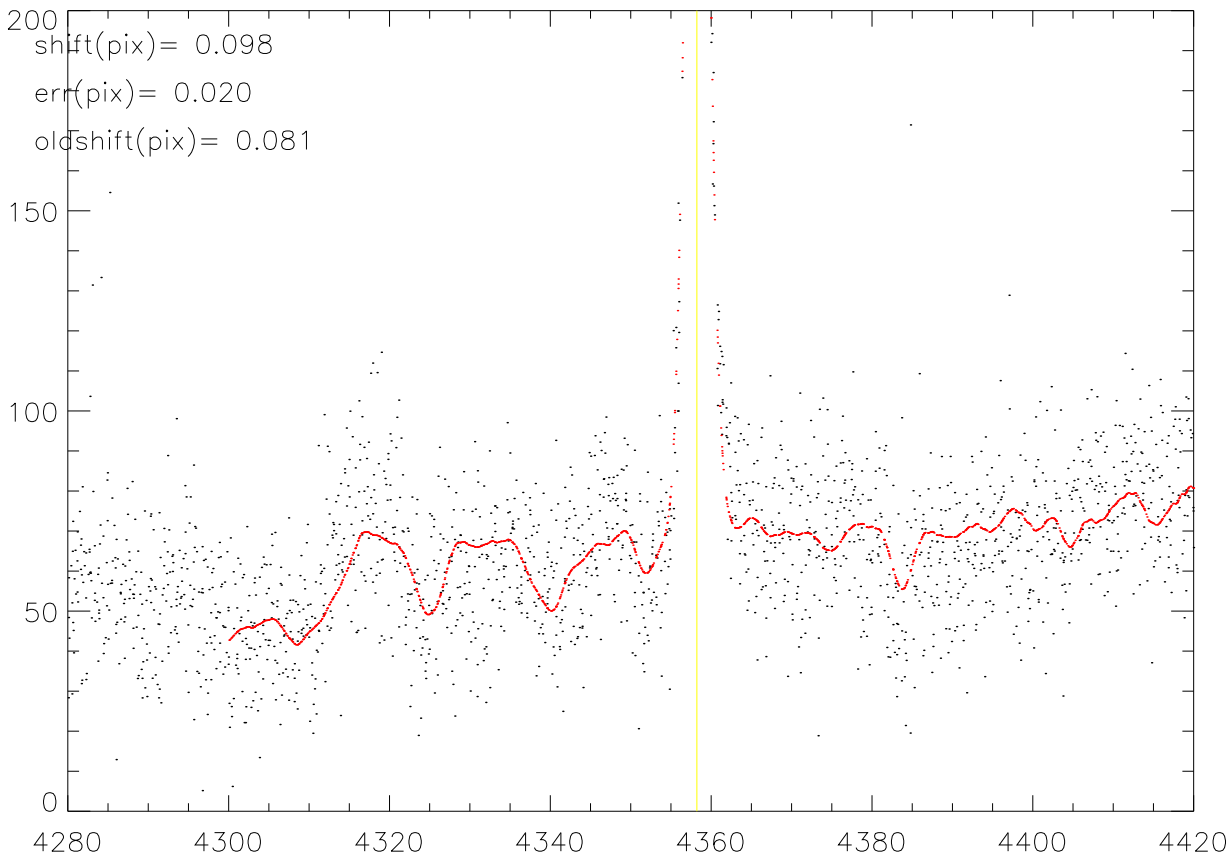

PLATE=3196 MJD=54834 Scattered Light on sdR-b1-00057875.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
22.73
13.64

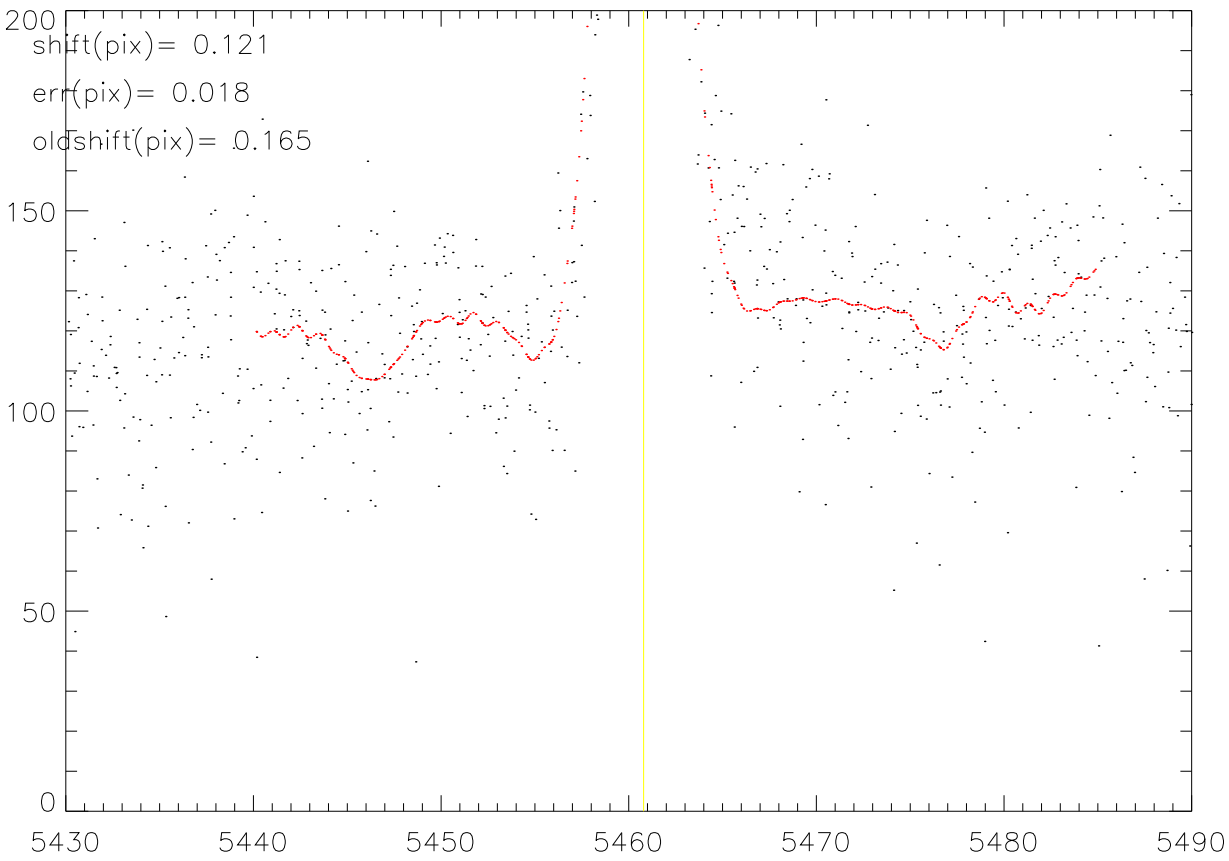

PLATE=3196 MJD=54834 Scattered Light on sdR-b1-00057875.fit
Brightness [electrons/pix]
50
40
30
20
10
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 13.172
Max value = 19.260
Fri Mar 12 20:19:53 2010

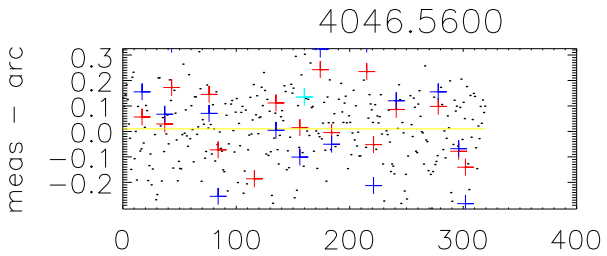

PLATE=3196 MJD=54834 Extraction chi^2 for sdR-b1-00057875.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

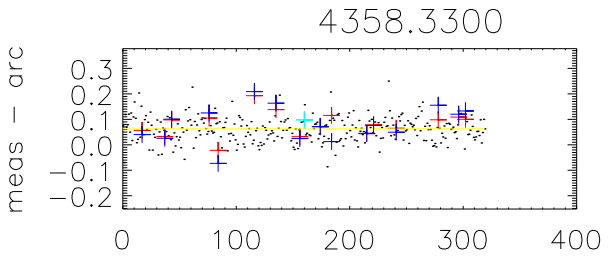

4046.5600
off: −0.01
sig: 0.045
4358.3300
off: 0.08
sig: 0.018
5460.9400
off: 0.17
sig: 0.015
5577.3390
off: 0.17
sig: 0.003
5889.9500
off: 0.31
sig: 0.008
5895.9240
off: 0.29
sig: 0.010

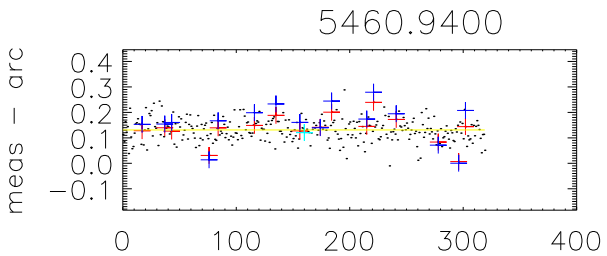

shift(pix)= 0.135
err(pix)= 0.055
oldshift(pix)=-0.011
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

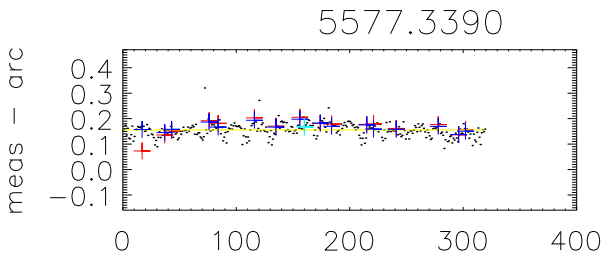

shift(pix)= 0.098
err(pix)= 0.020
oldshift(pix)= 0.081
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

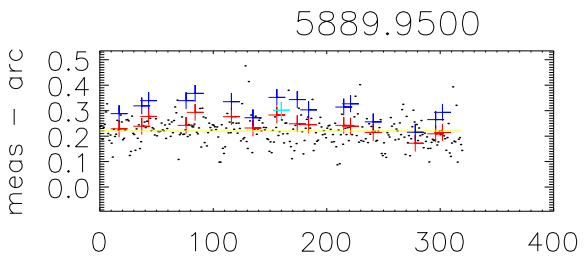

shift(pix)= 0.121
err(pix)= 0.018
oldshift(pix)= 0.165
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

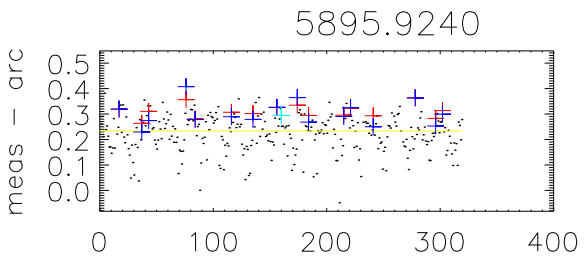

4046.5600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

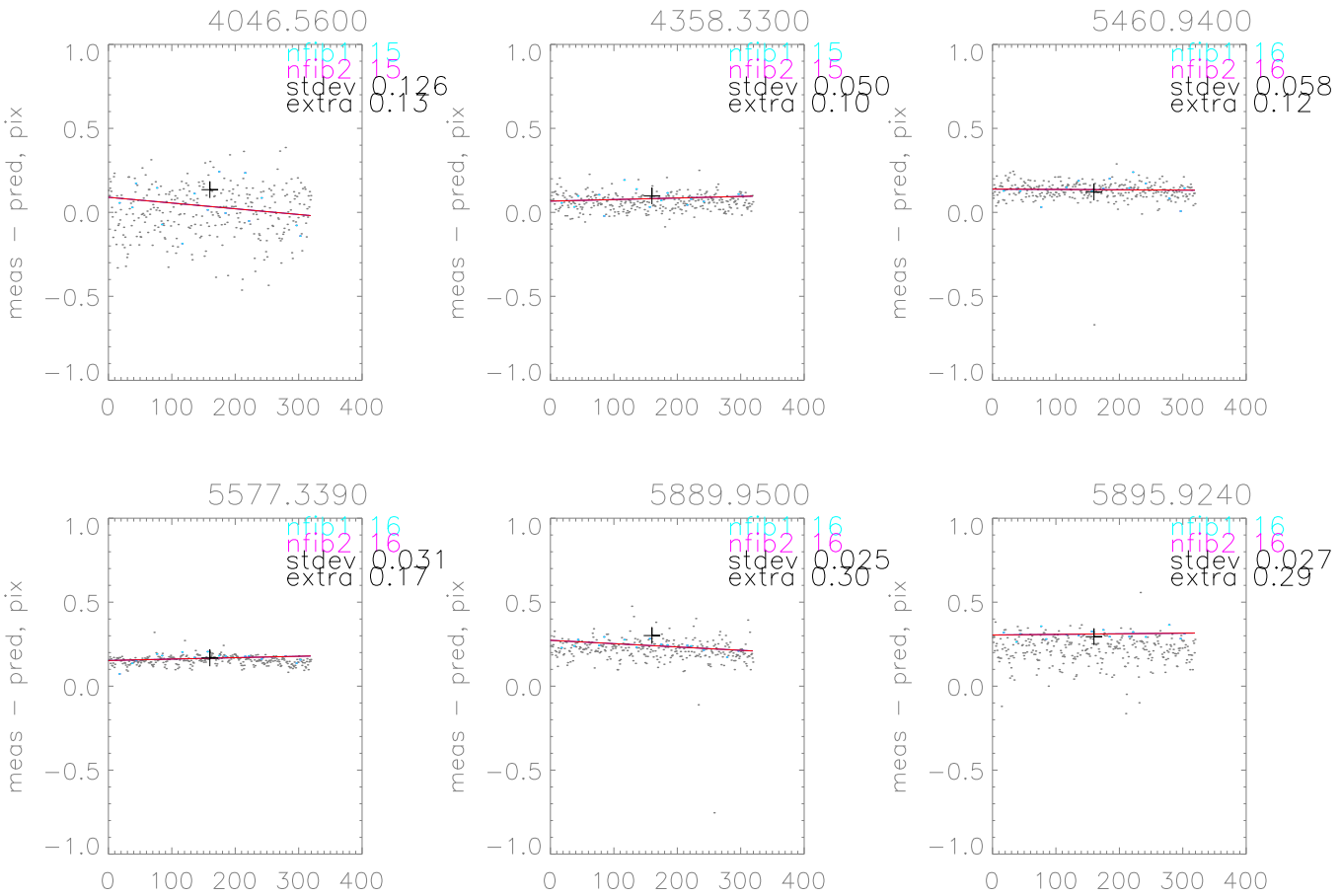

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

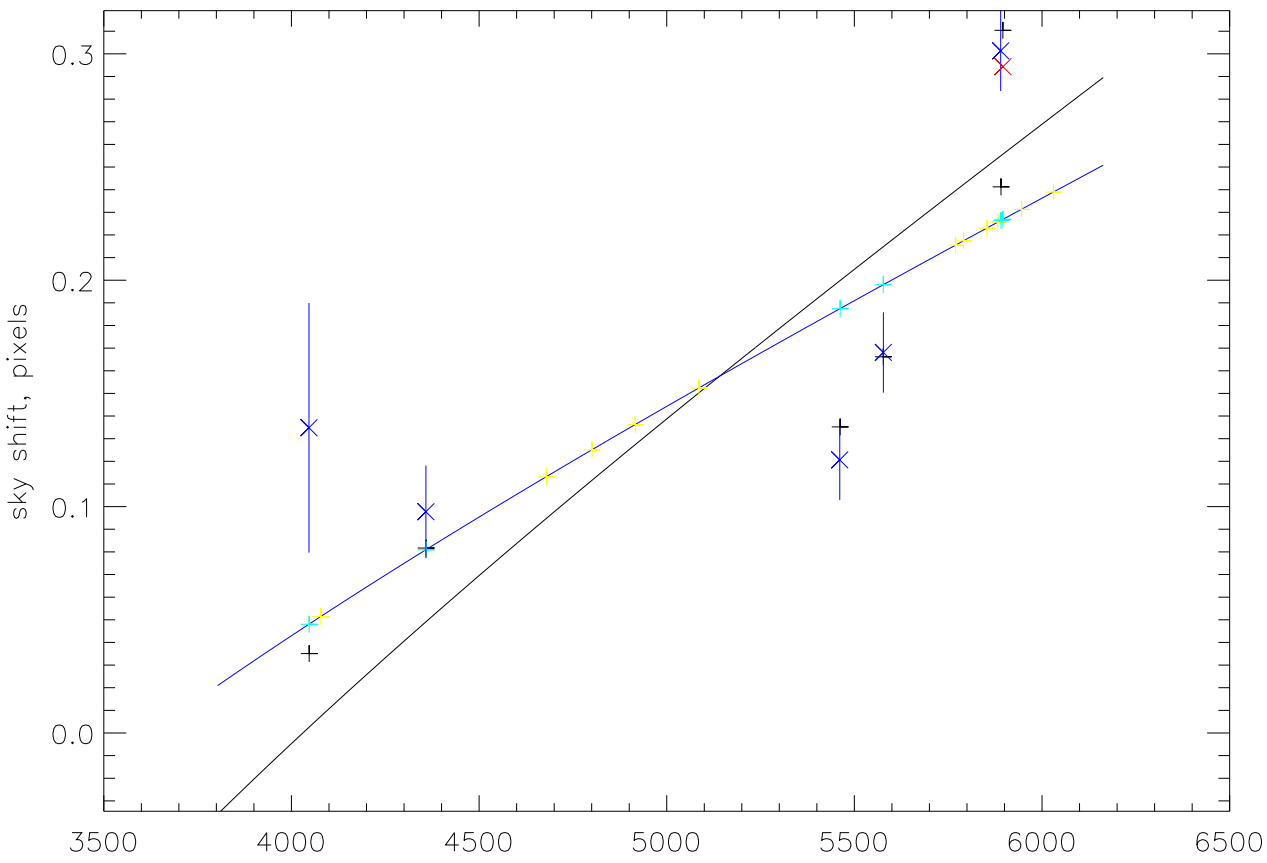

5460.9400
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

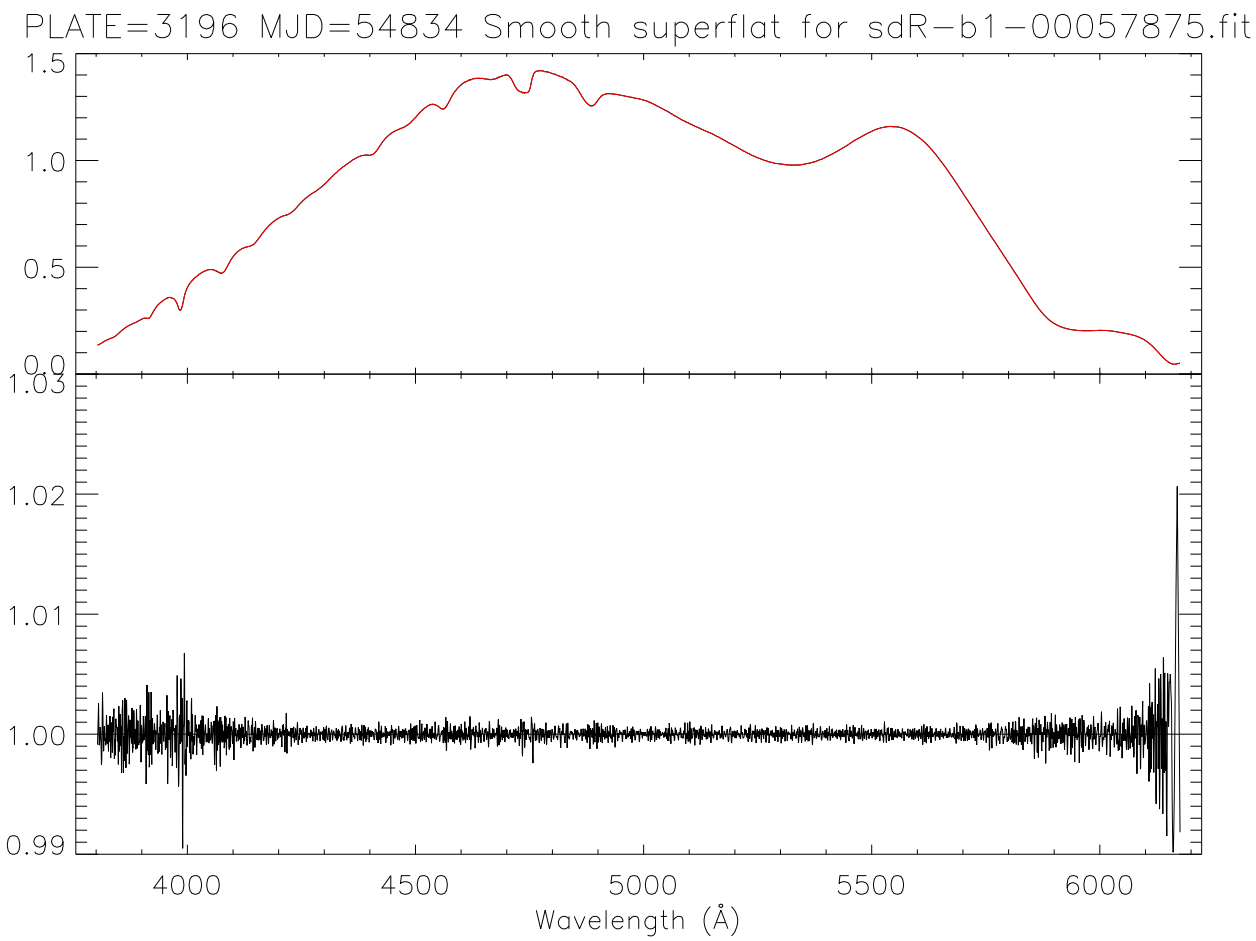

5889.9500
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

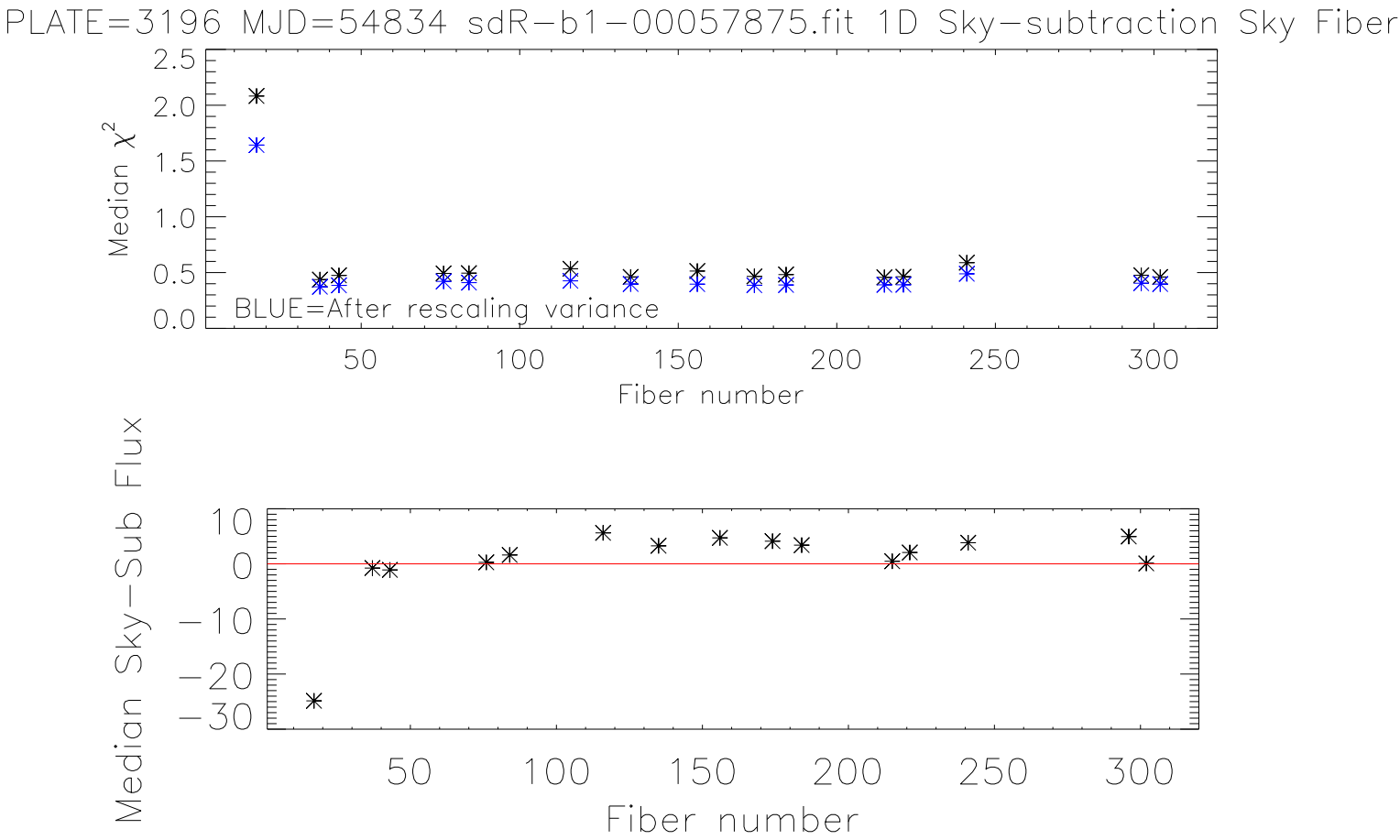

5895.9240
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

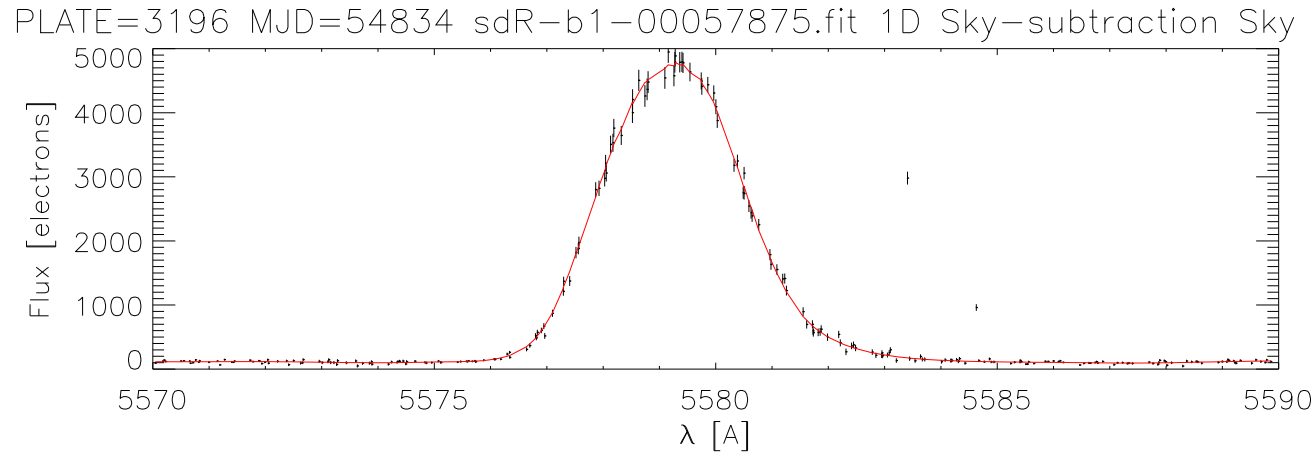

4046.5600
nfib1 15
nfib2 15
stdev 0.126
extra 0.13
4358.3300
nfib1 15
nfib2 15
stdev 0.050
extra 0.10
5460.9400
nfib1 16
nfib2 16
stdev 0.058
extra 0.12
5577.3390
nfib1 16
nfib2 16
stdev 0.031
extra 0.17
5889.9500
nfib1 16
nfib2 16
stdev 0.025
extra 0.30
5895.9240
nfib1 16
nfib2 16
stdev 0.027
extra 0.29
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

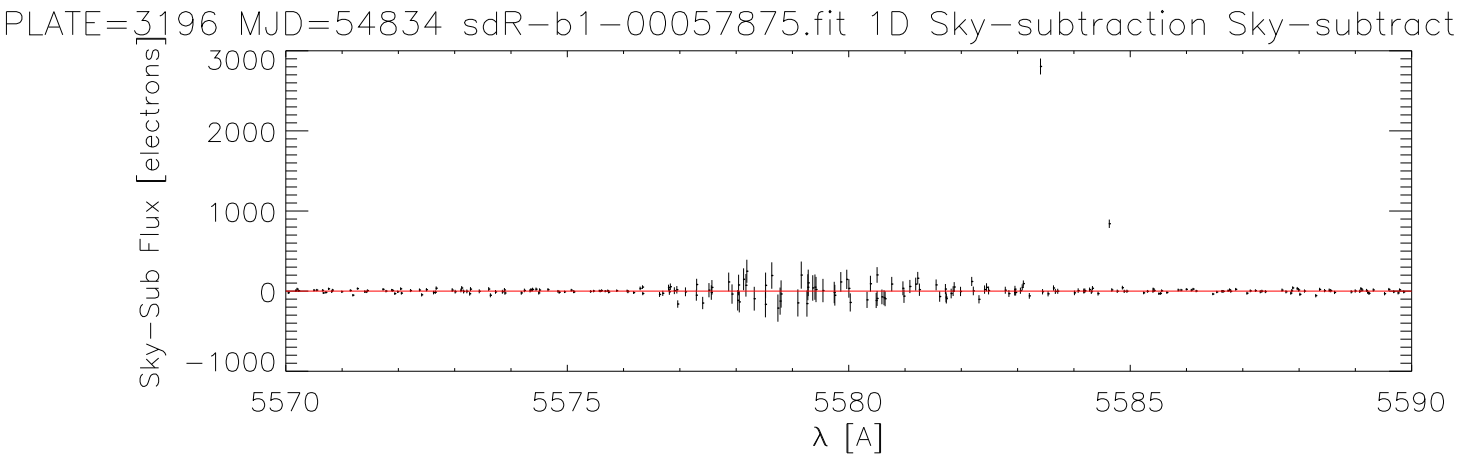

0.3
0.2
0.1
0.0
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

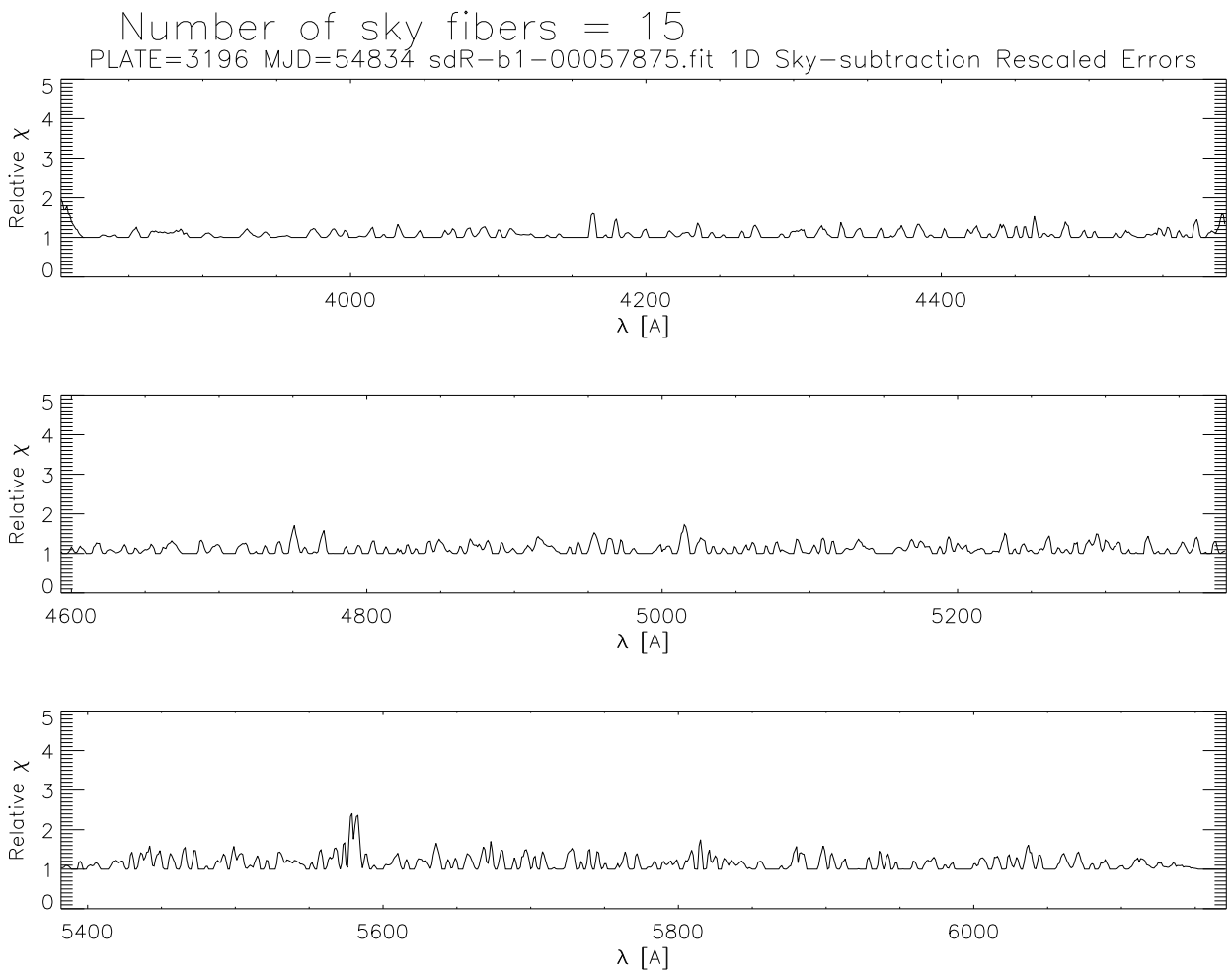
es= −0.0001

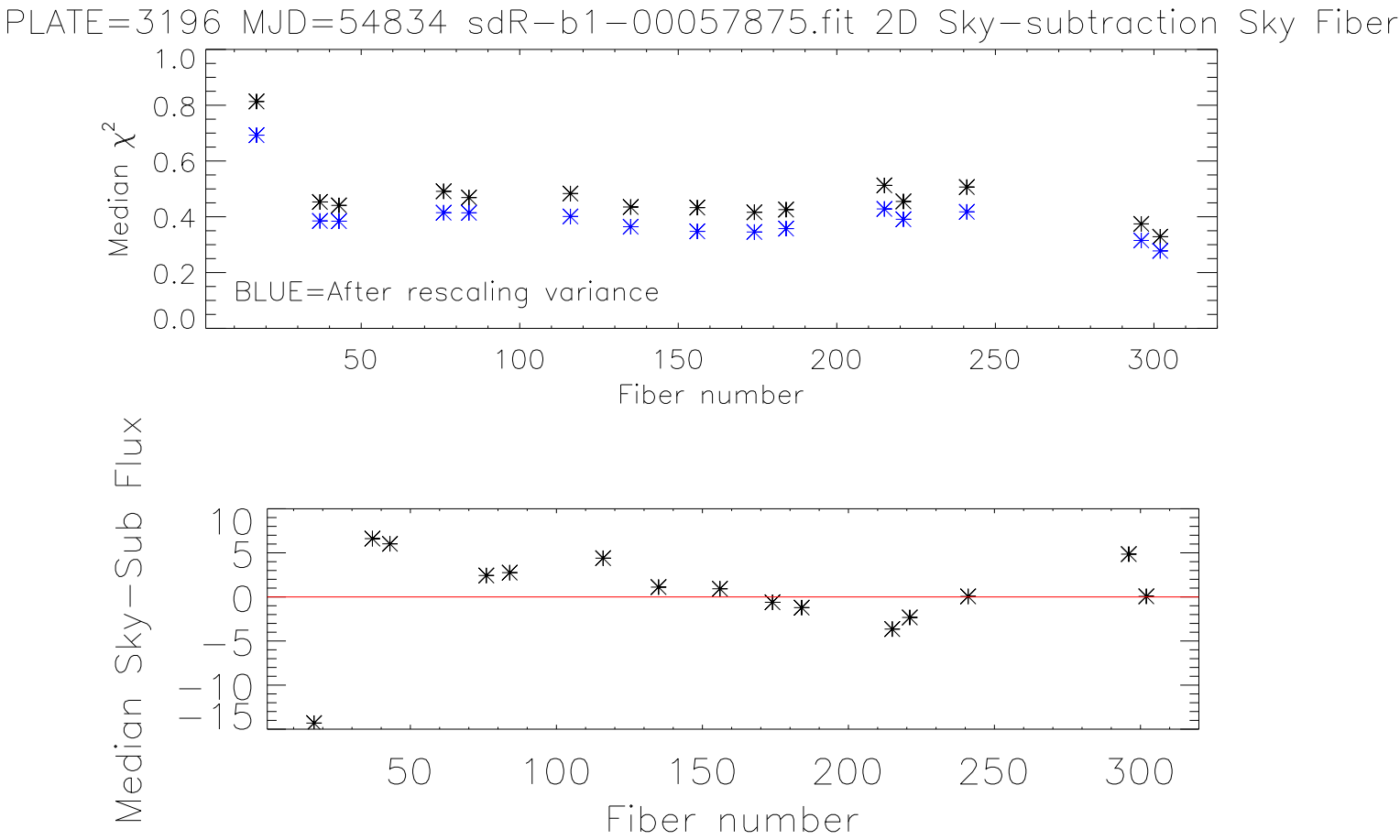

PLATE=3196 MJD=54834 Smooth superflat for sdR−b1−00057875.fit
1.5
1.0
0.5
0.0
1.03
1.02
1.01
1.00
0.99
4000
4500
5000
5500
6000
Wavelength (Å)

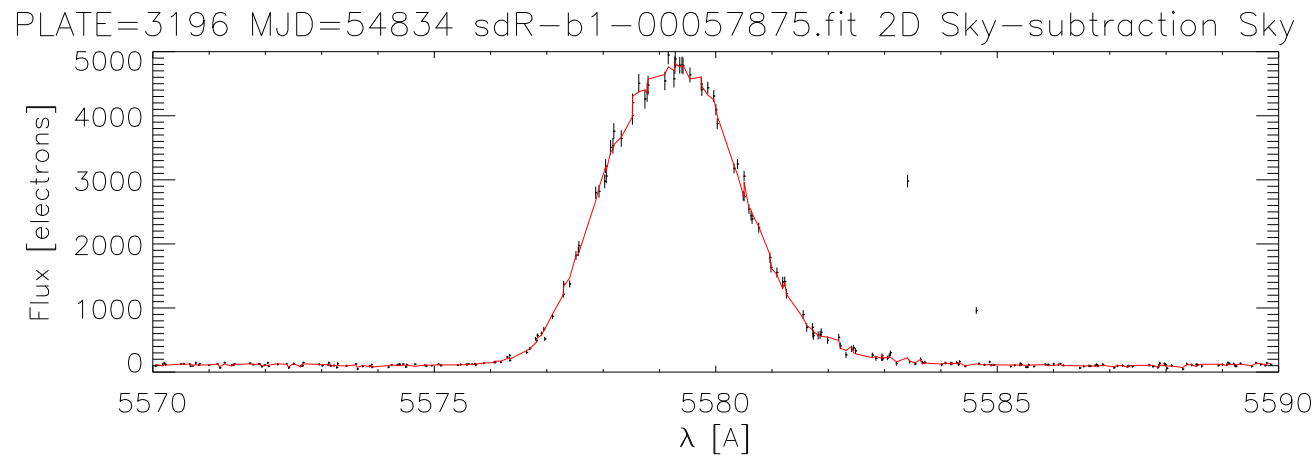

PLATE=3196 MJD=54834 sdR-b1-00057875.fit 1D Sky-subtraction Sky Fiber
Median χ^2
2.5
2.0
1.5
1.0
0.5
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
0
-10
-20
-30
50
100
150
200
250
300
Fiber number

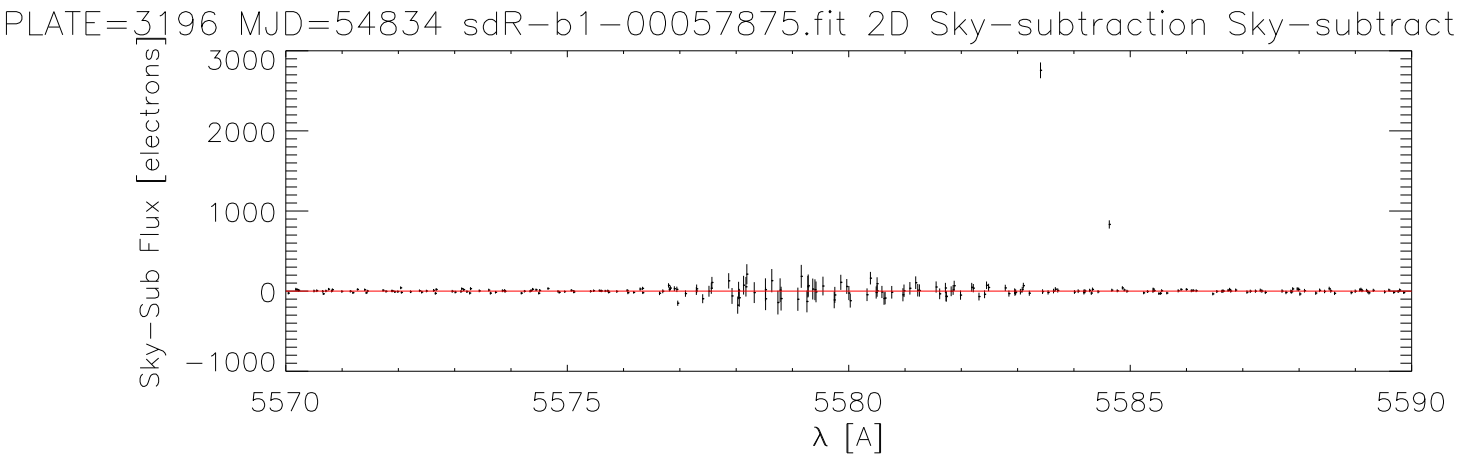

PLATE=3196 MJD=54834 sdR-b1-00057875.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

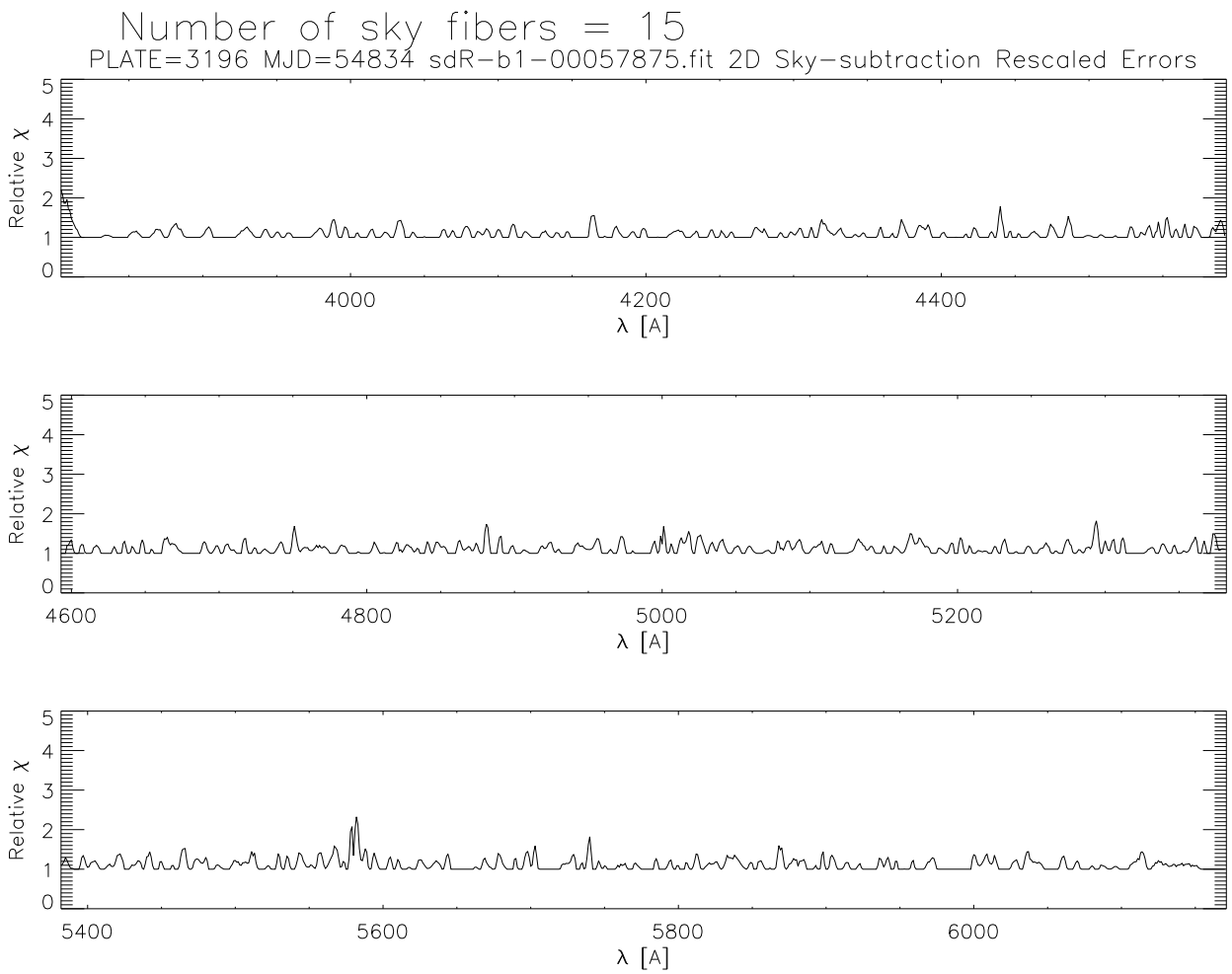

PLATE=3196 MJD=54834 sdR-b1-00057875.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
3000
2000
1000
0
-1000
5570
5575
5580
5585
5590
λ [A]

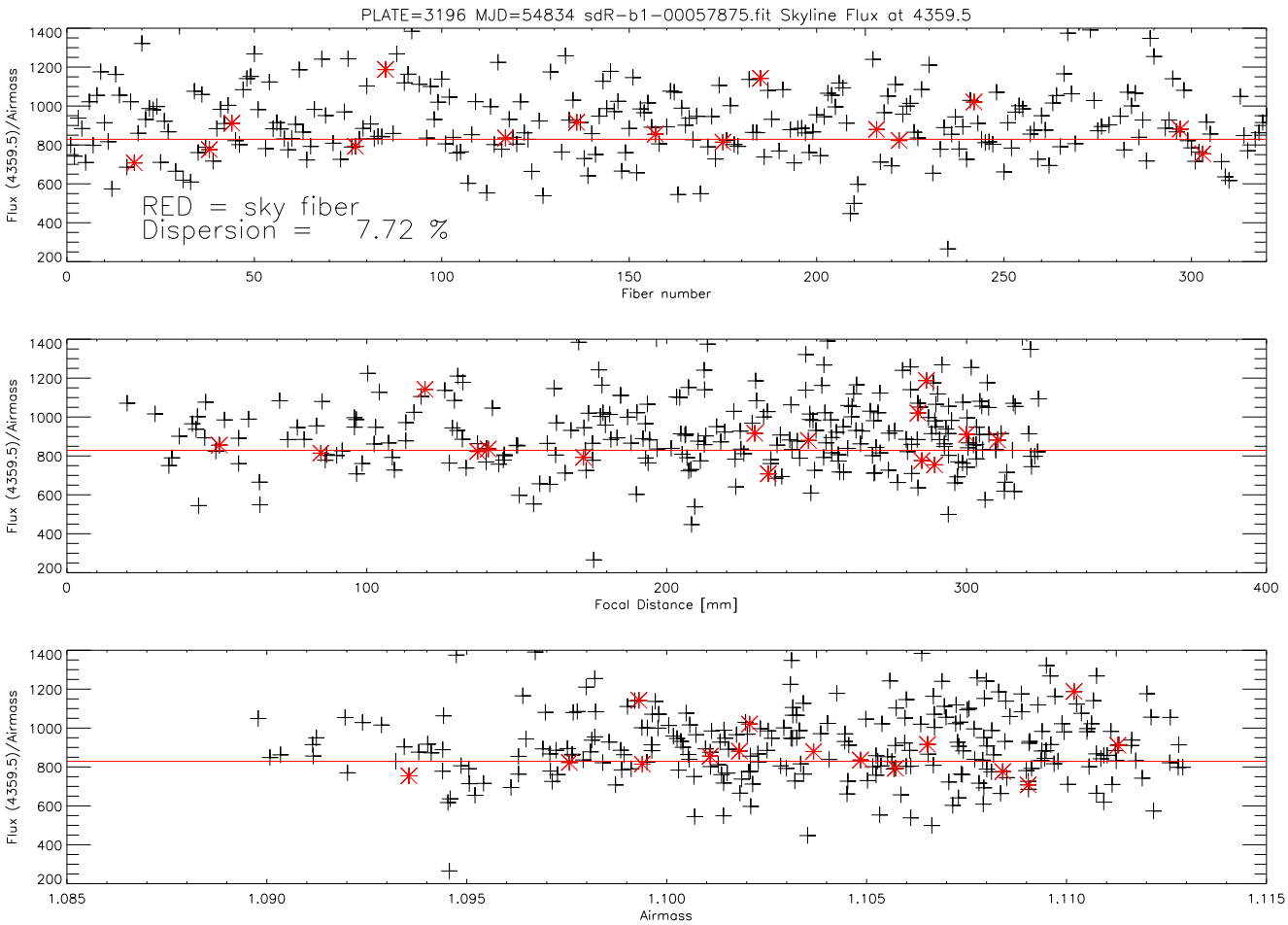

Number of sky fibers = 15
PLATE=3196 MJD=54834 sdR-b1-00057875.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

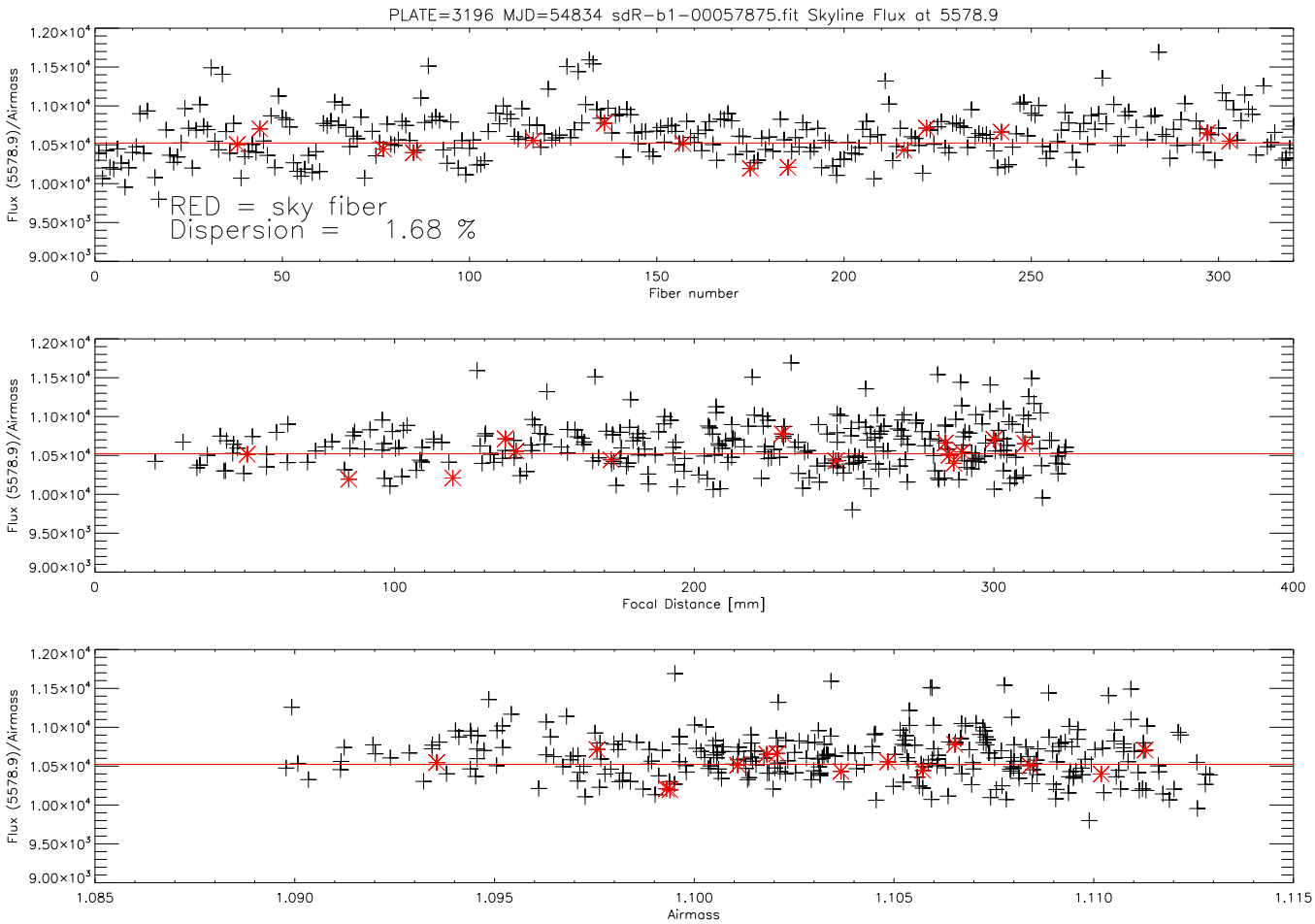

PLATE=3196 MJD=54834 sdR-b1-00057875.fit 2D Sky-subtraction Sky Fiber
Median χ^2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

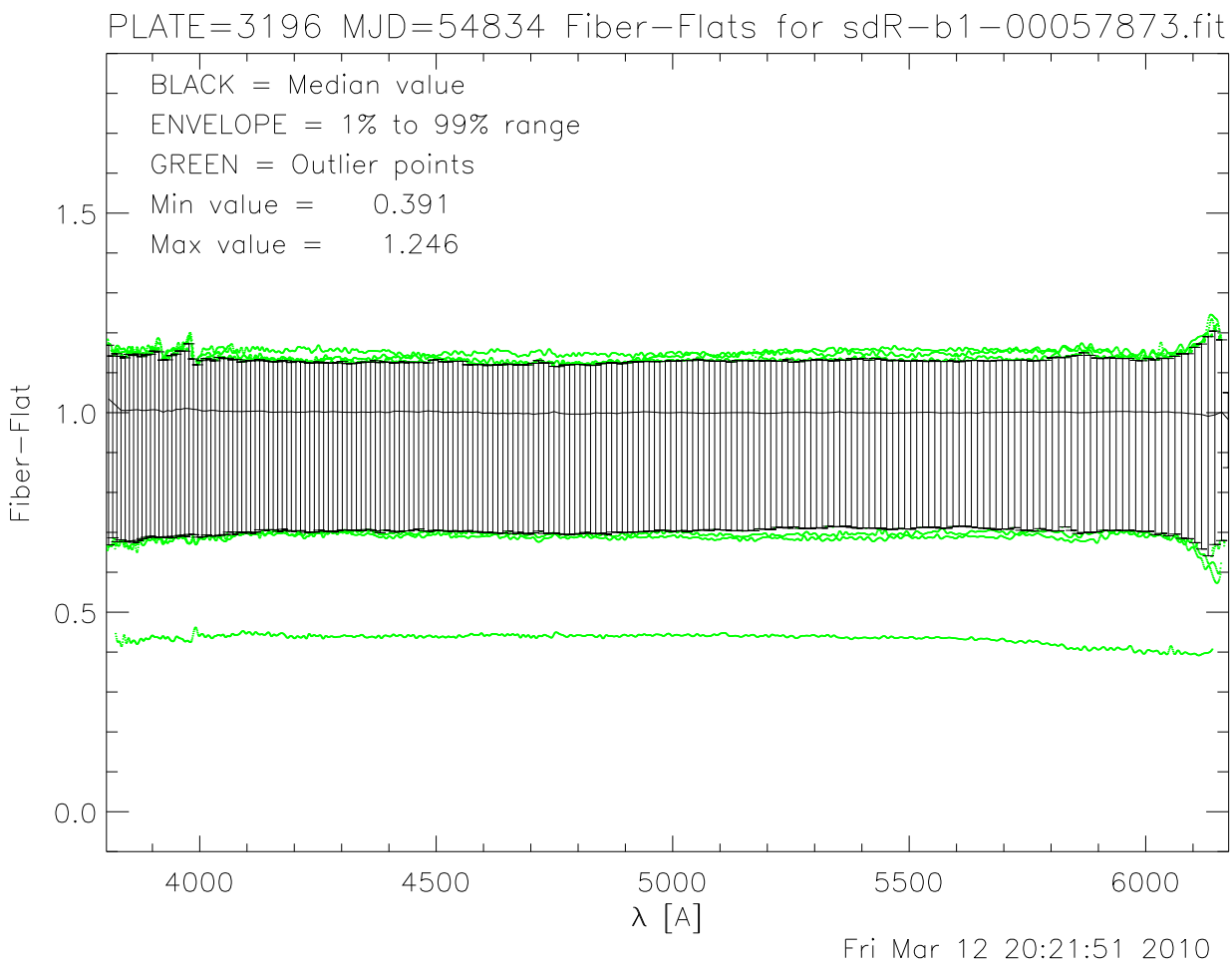

PLATE=3196 MJD=54834 sdR-b1-00057875.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

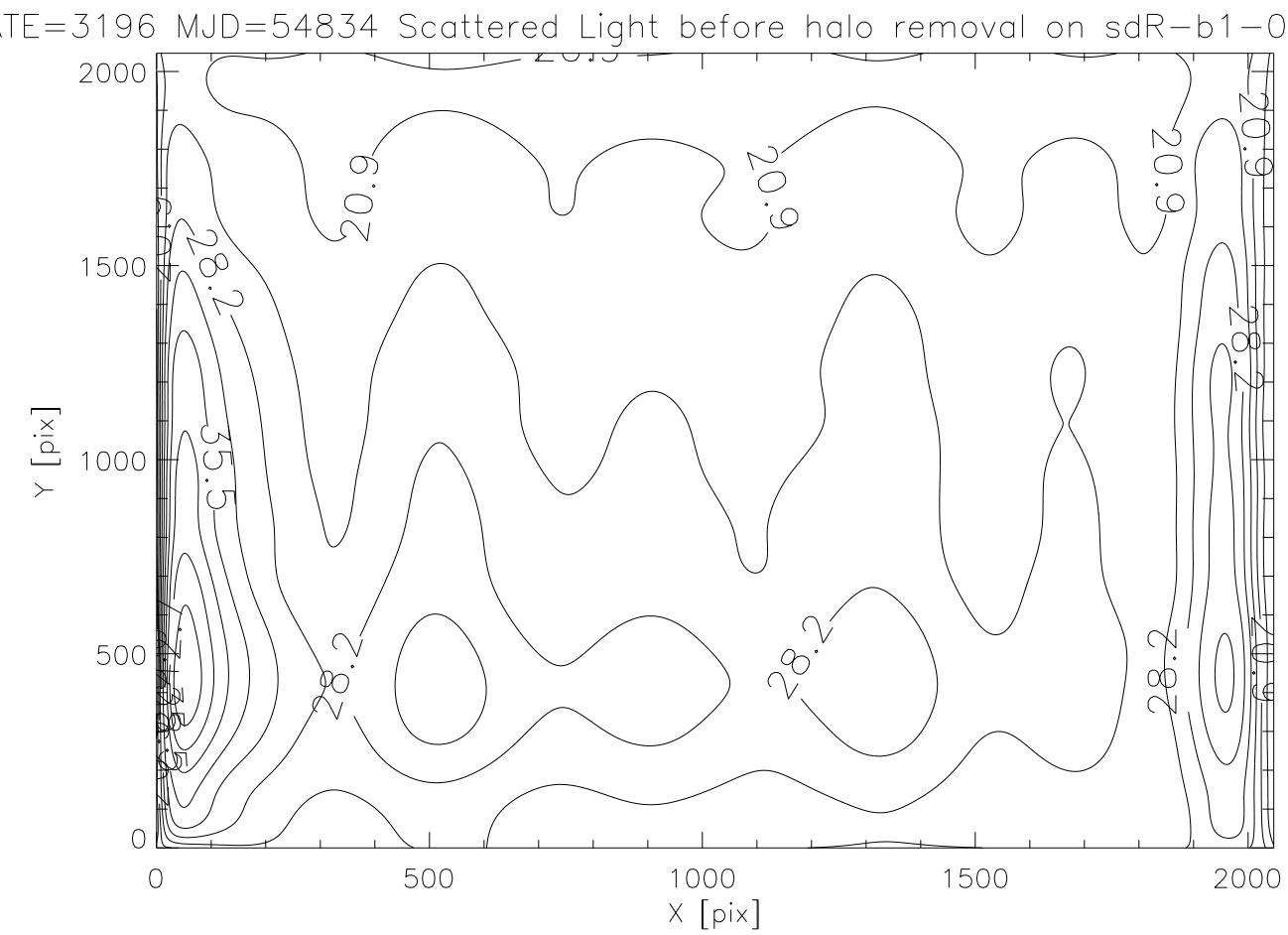

PLATE=3196 MJD=54834 sdR-b1-00057875.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
3000
2000
1000
0
-1000
5570
5575
5580
5585
5590
λ [A]

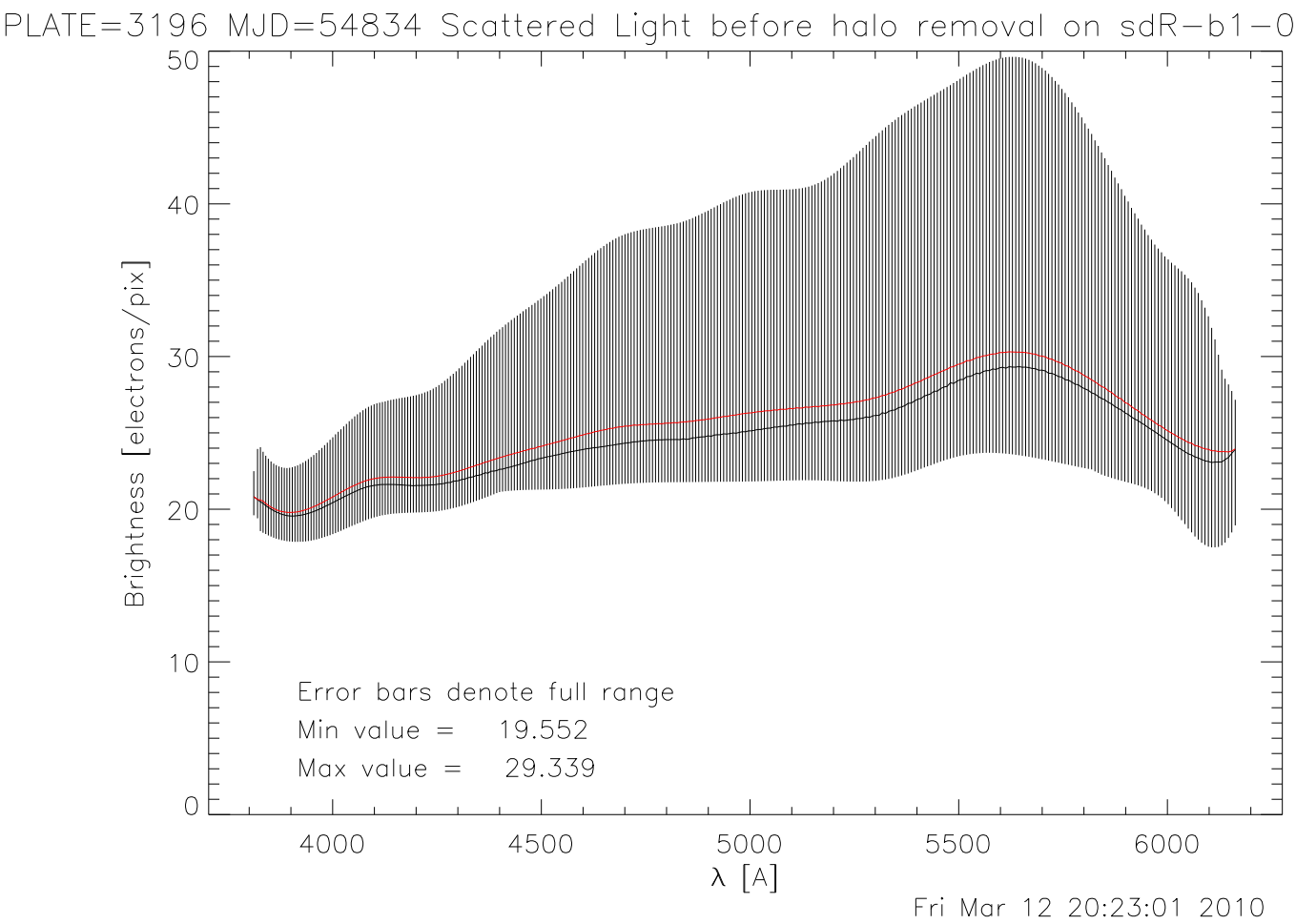

Number of sky fibers = 15
PLATE=3196 MJD=54834 sdR-b1-00057875.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

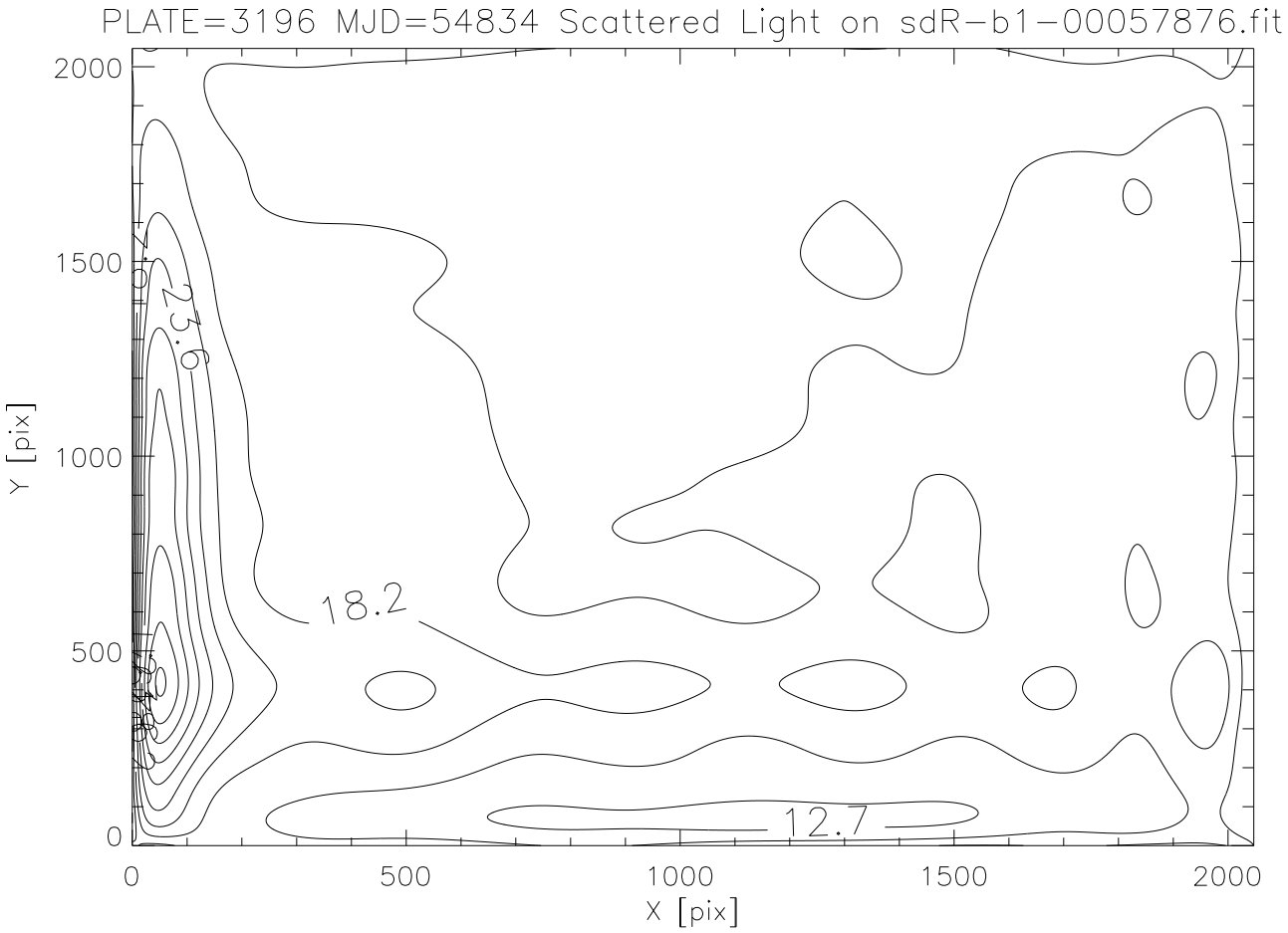

PLATE=3196 MJD=54834 sdR-b1-00057875.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 7.72 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

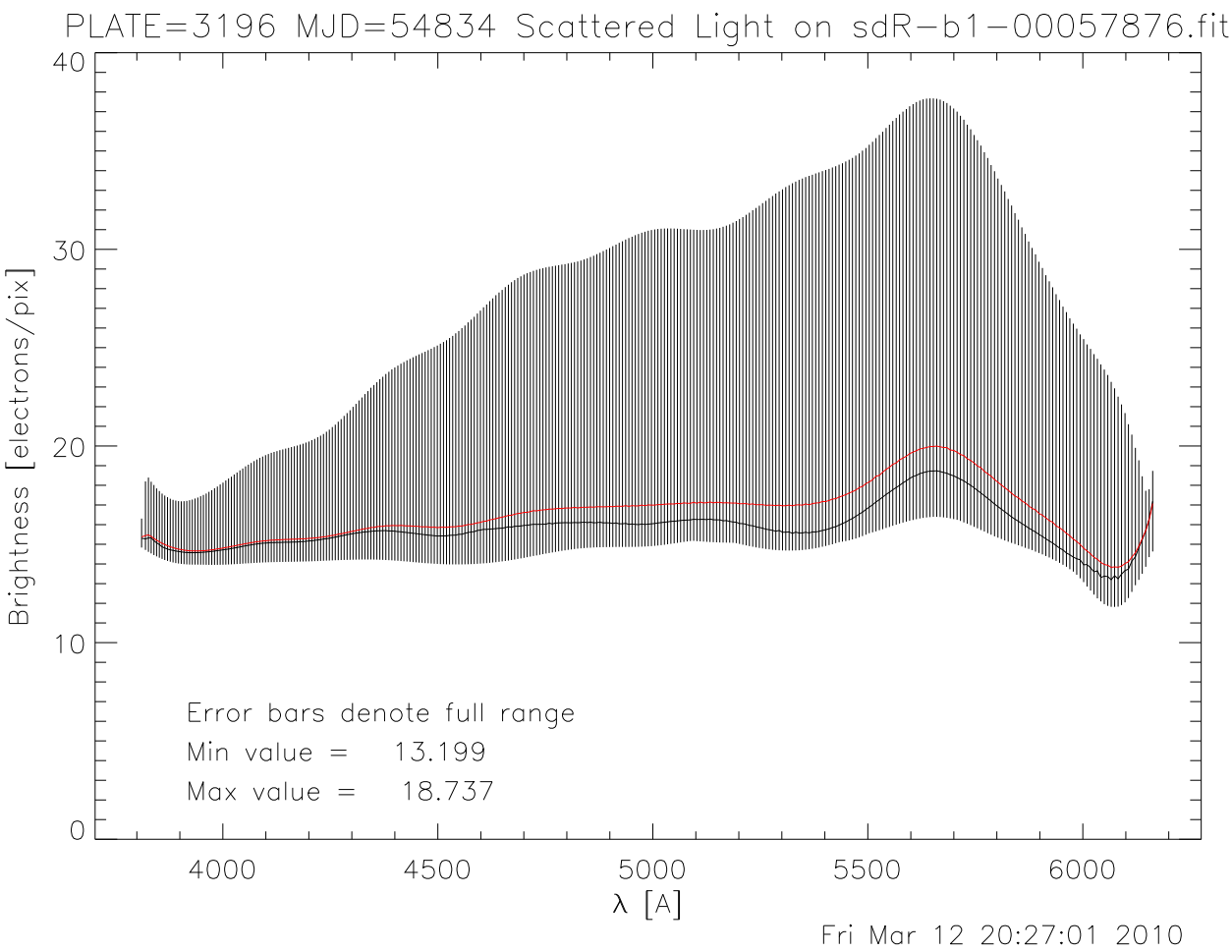

PLATE=3196 MJD=54834 sdR-b1-00057875.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.68 %
Fiber number
Focal Distance [mm]
Airmass

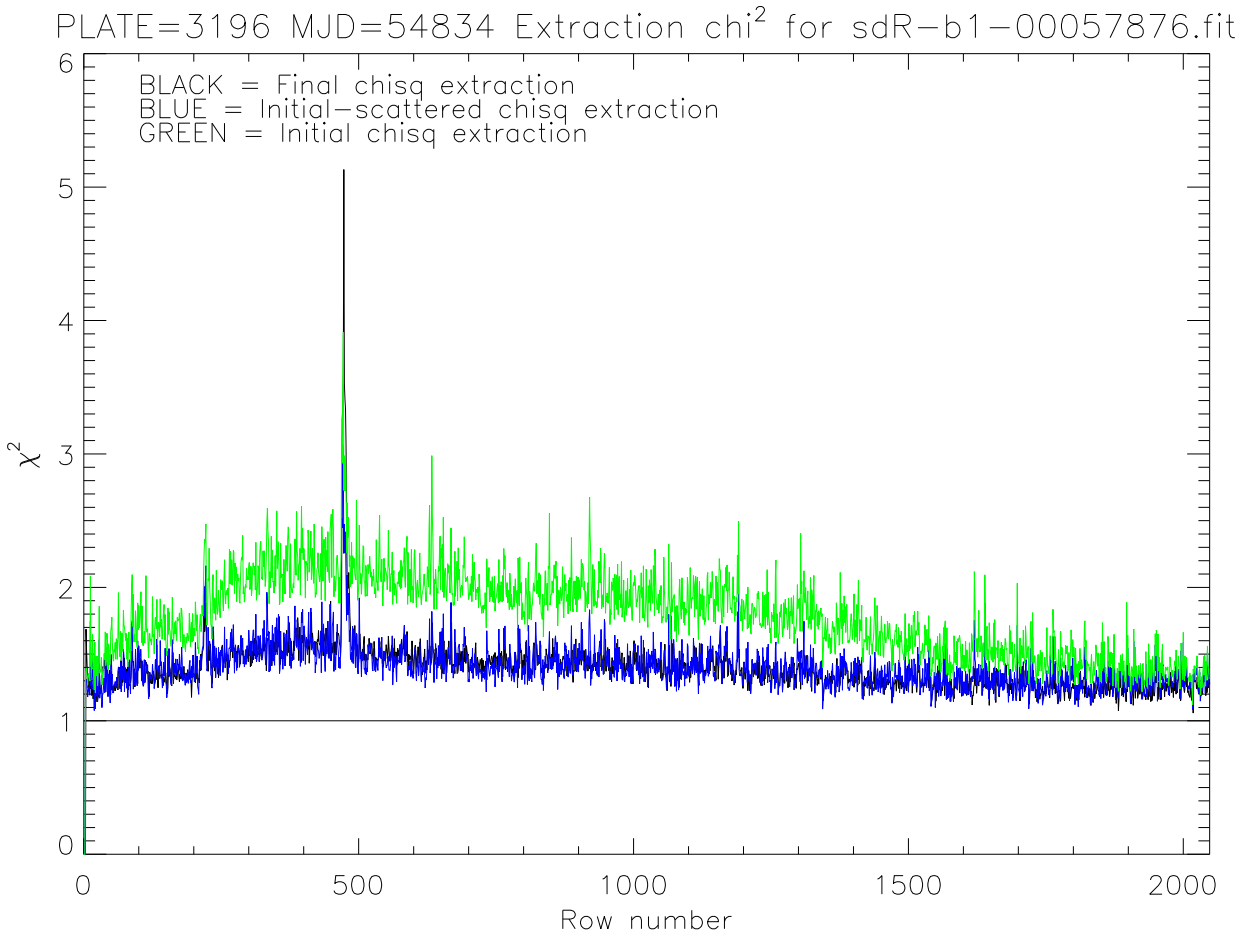

PLATE=3196 MJD=54834 Fiber−Flats for sdR−b1−00057873.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.391
Max value = 1.246
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Fri Mar 12 20:21:51 2010

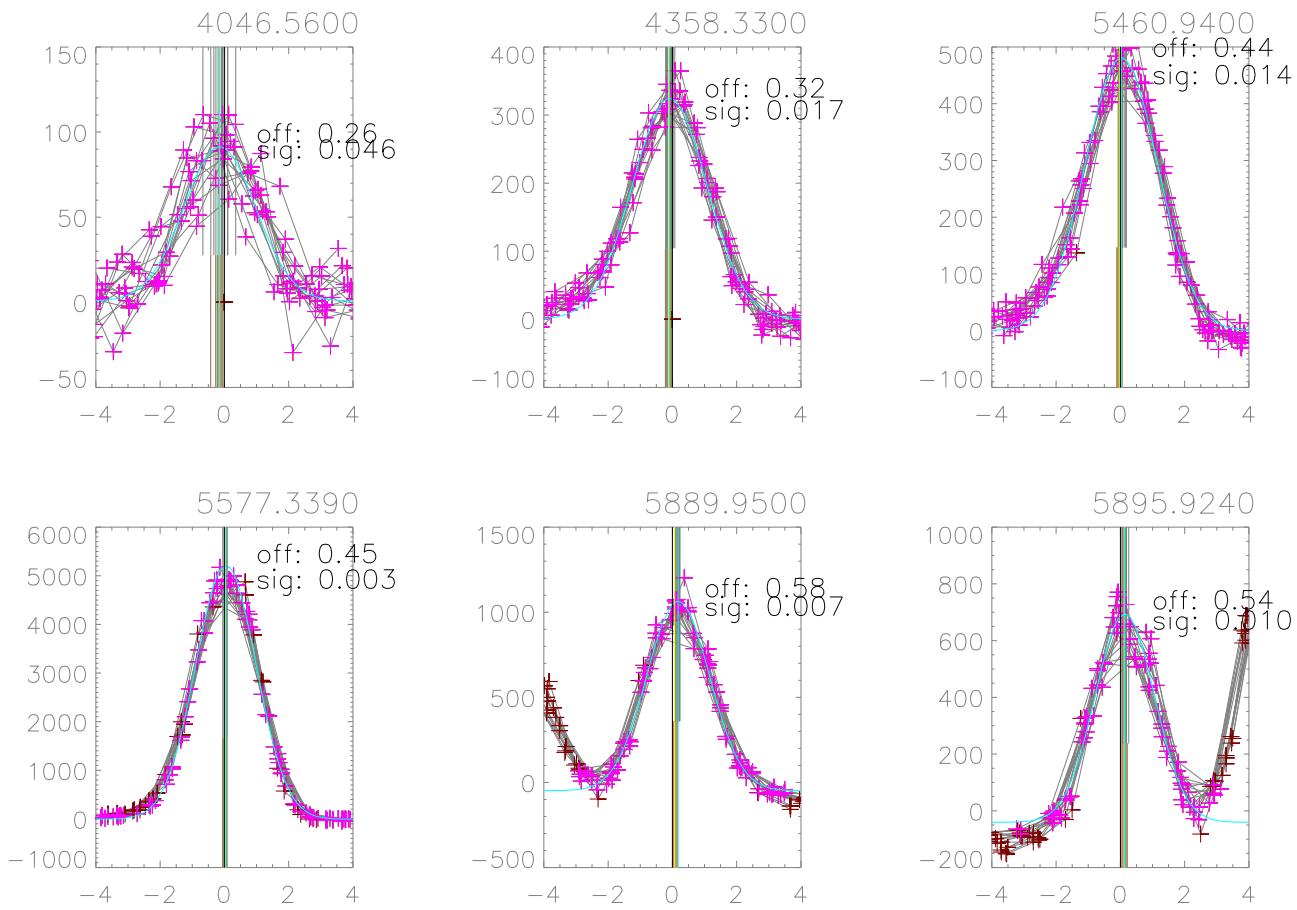

PLATE=3196 MJD=54834 Scattered Light before halo removal on sdR−b1−00057876.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
20.9
20.9
20.9
20.9
28.2
28.2
28.2
28.2
35.5

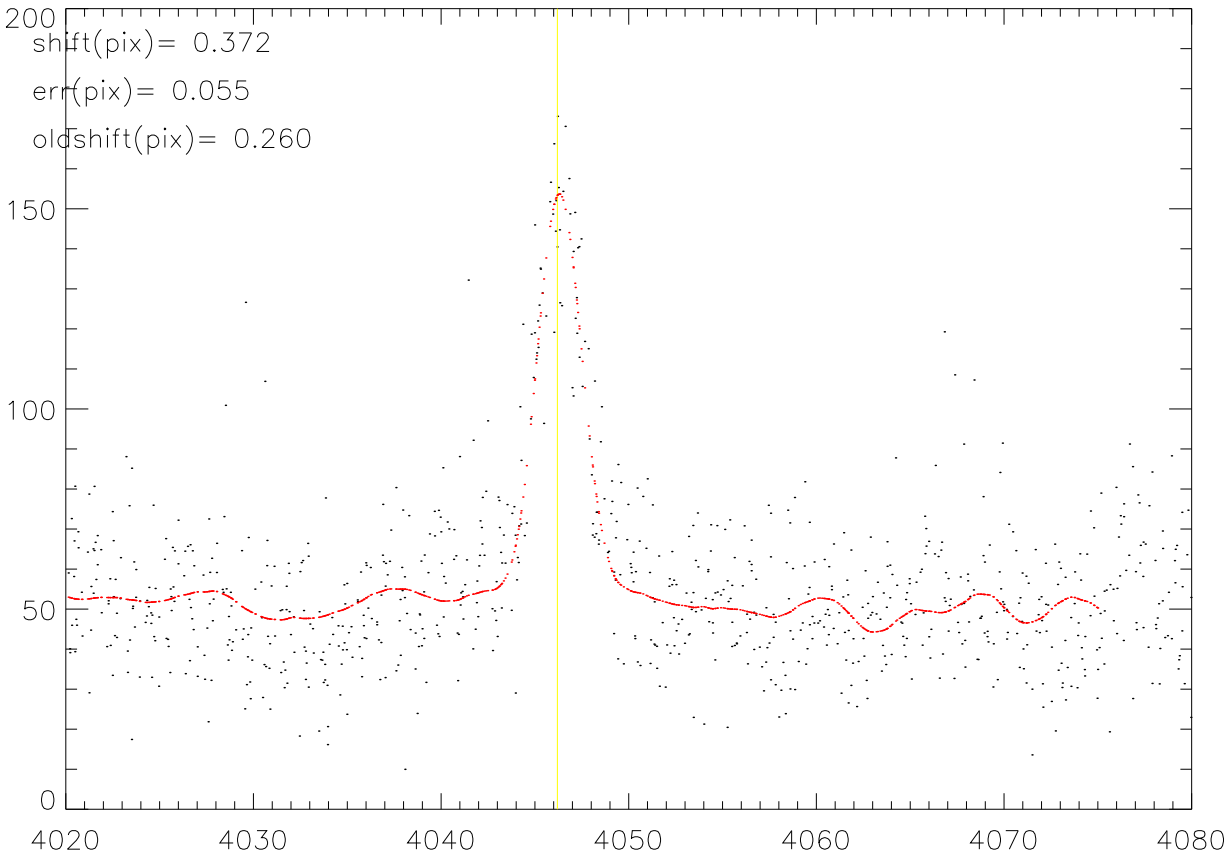

PLATE=3196 MJD=54834 Scattered Light before halo removal on sdR-b1-00057876.f
Brightness [electrons/pix]
50
40
30
20
10
0
Error bars denote full range
Min value = 19.552
Max value = 29.339
4000
4500
5000
5500
6000
λ [A]
Fri Mar 12 20:23:01 2010

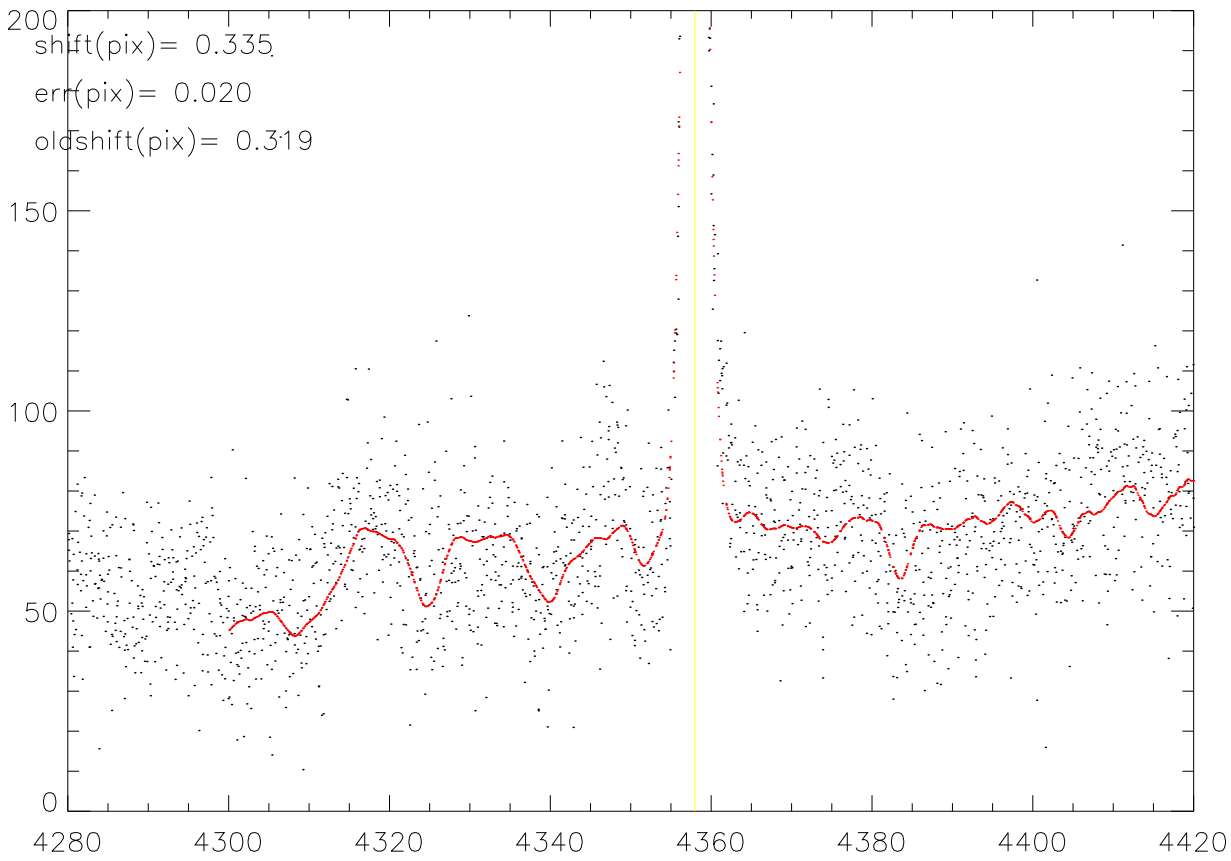

PLATE=3196 MJD=54834 Scattered Light on sdR-b1-00057876.fit
2000
1500
1000
500
0
Y [pix]
23.6
18.2
12.7
0
500
1000
1500
2000
X [pix]

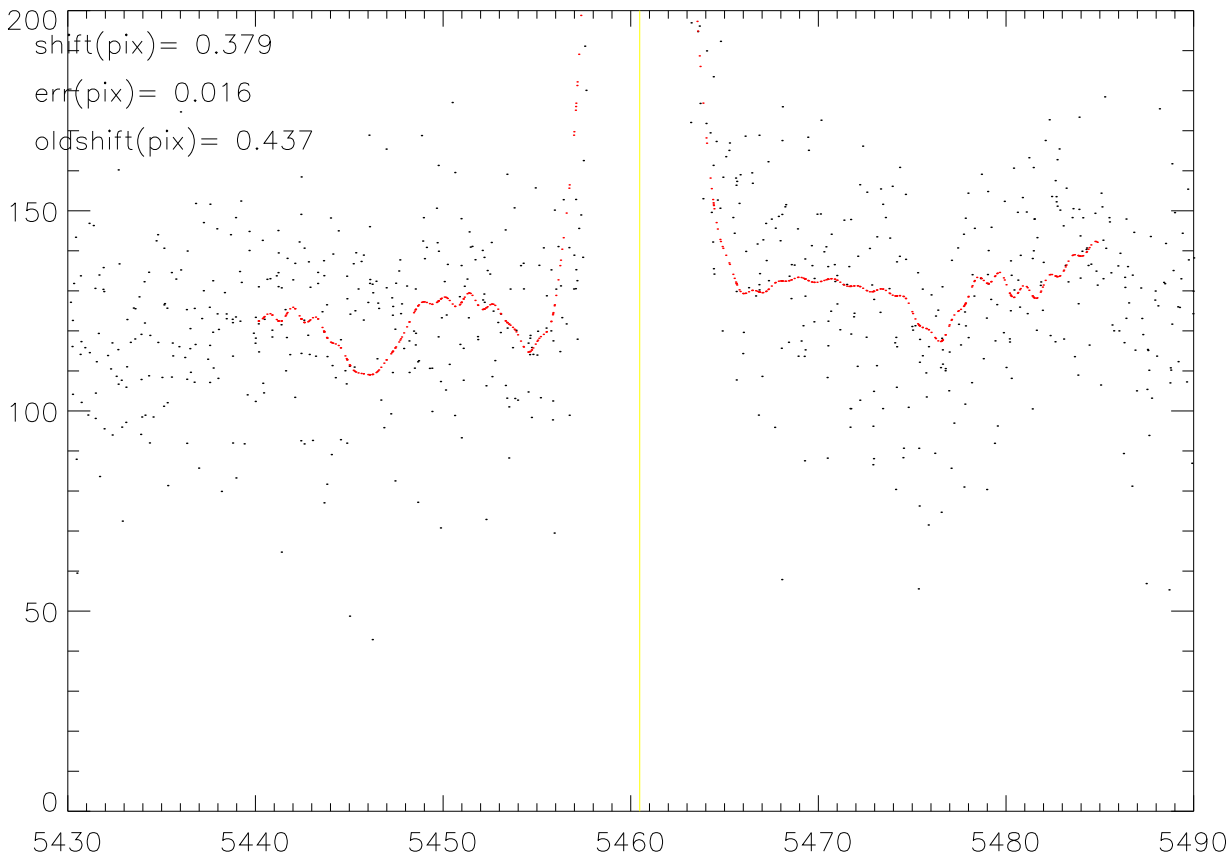

PLATE=3196 MJD=54834 Scattered Light on sdR-b1-00057876.fit
Brightness [electrons/pix]
40
30
20
10
0
Error bars denote full range
Min value = 13.199
Max value = 18.737
4000
4500
5000
5500
6000
λ [A]
Fri Mar 12 20:27:01 2010

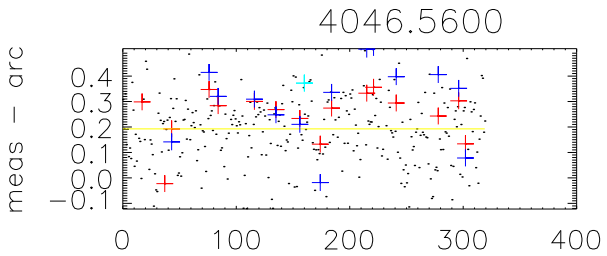

PLATE=3196 MJD=54834 Extraction chi^2 for sdR-b1-00057876.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

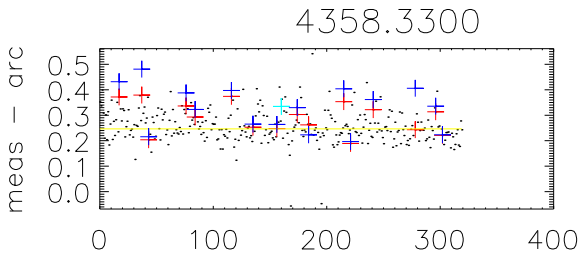

4046.5600
off: 0.26
sig: 0.046
4358.3300
off: 0.32
sig: 0.017
5460.9400
off: 0.44
sig: 0.014
5577.3390
off: 0.45
sig: 0.003
5889.9500
off: 0.58
sig: 0.007
5895.9240
off: 0.54
sig: 0.010

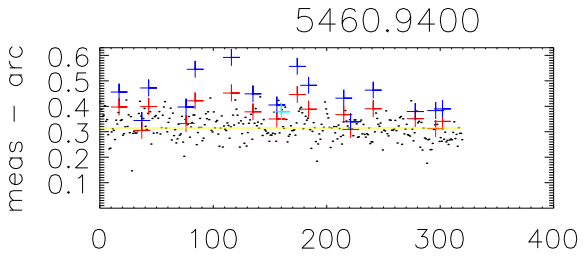

shift(pix)= 0.372
err(pix)= 0.055
oldshift(pix)= 0.260
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

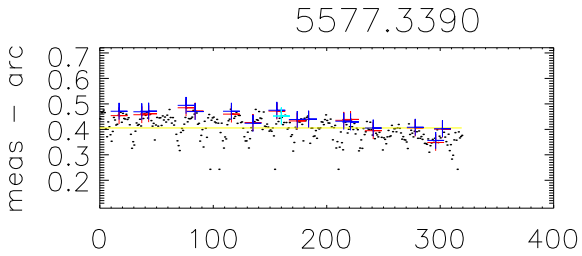

shift(pix)= 0.335
err(pix)= 0.020
oldshift(pix)= 0.319
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

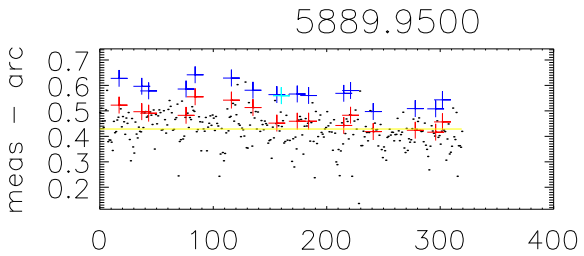

shift(pix)= 0.379
err(pix)= 0.016
oldshift(pix)= 0.437
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

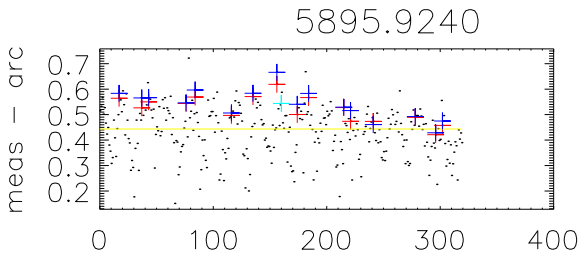

4046.5600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

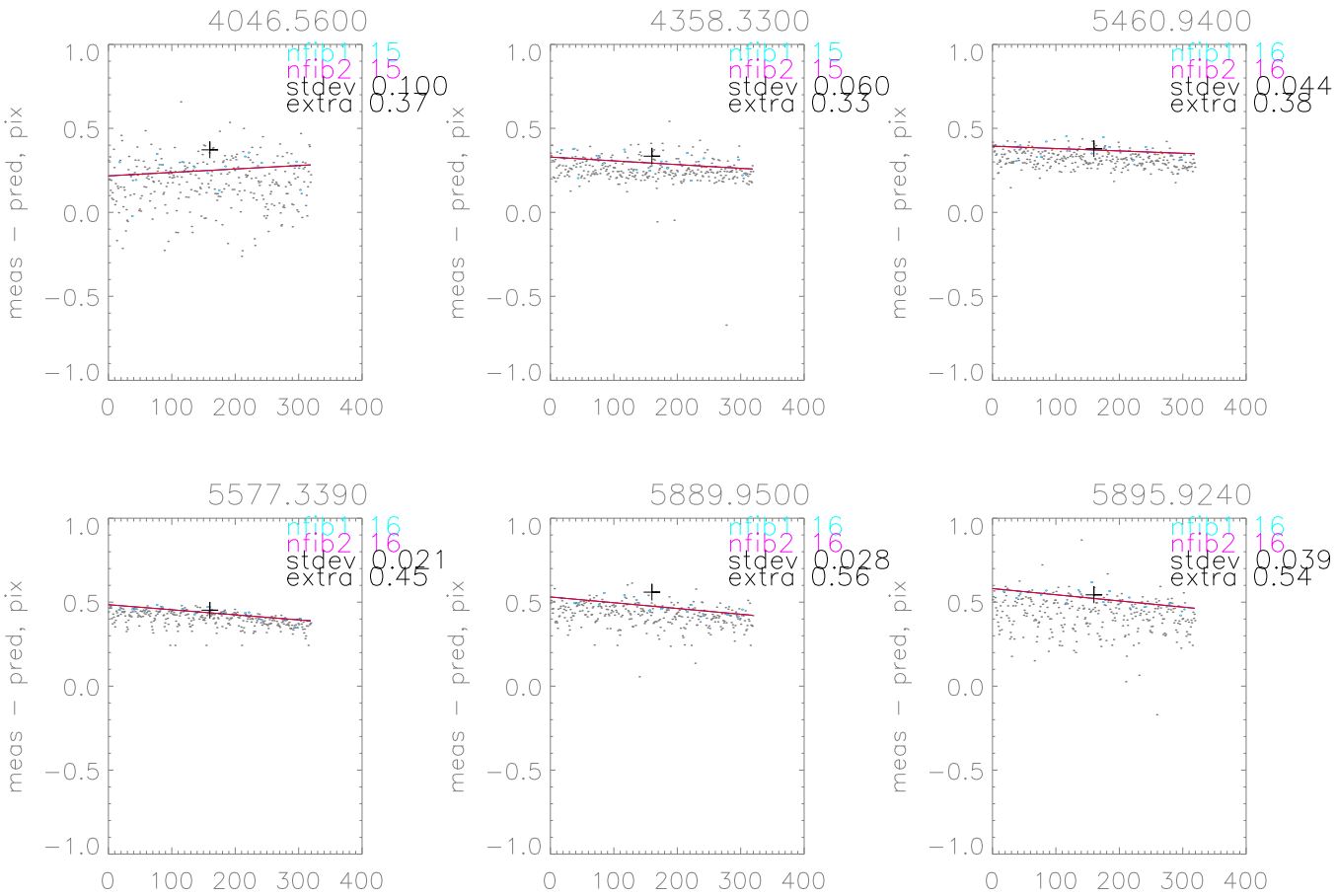

4358.3300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

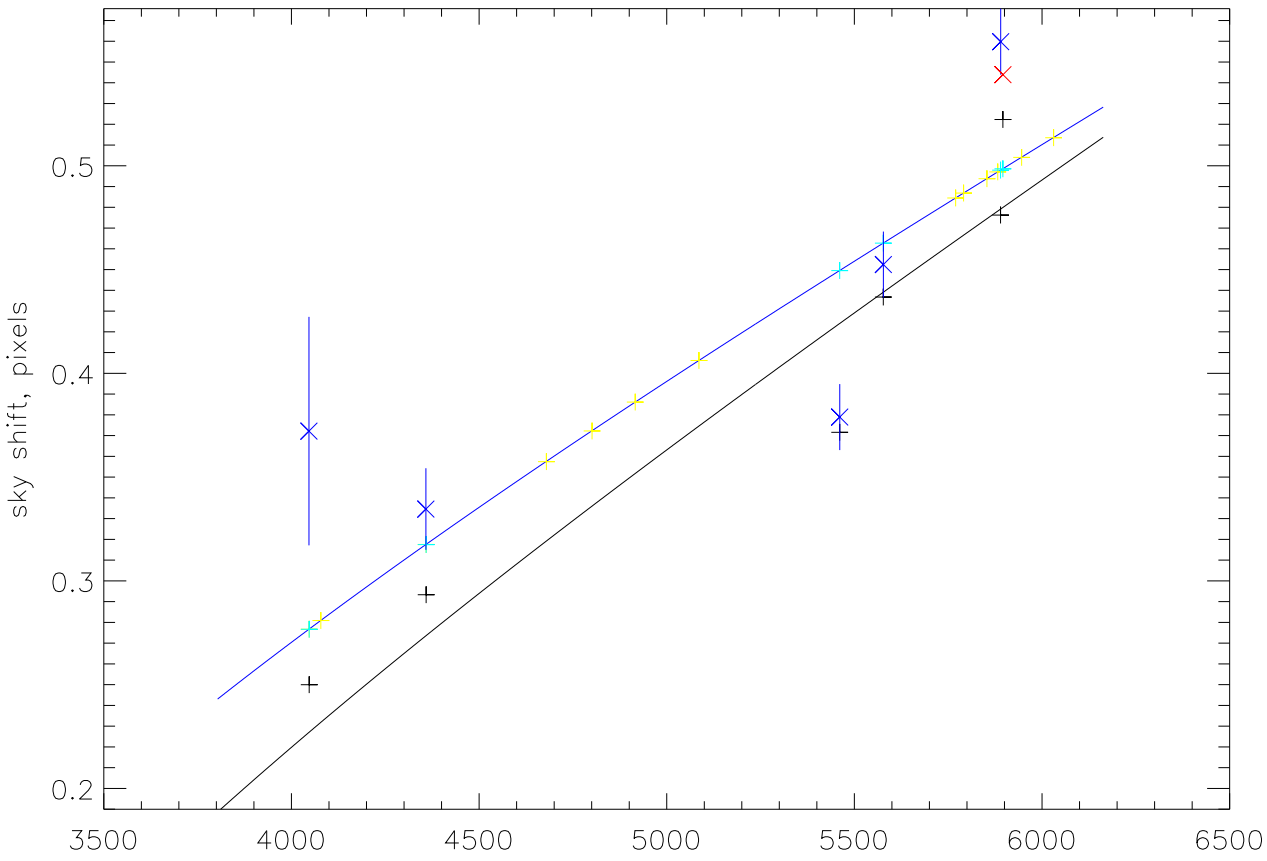

5460.9400
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

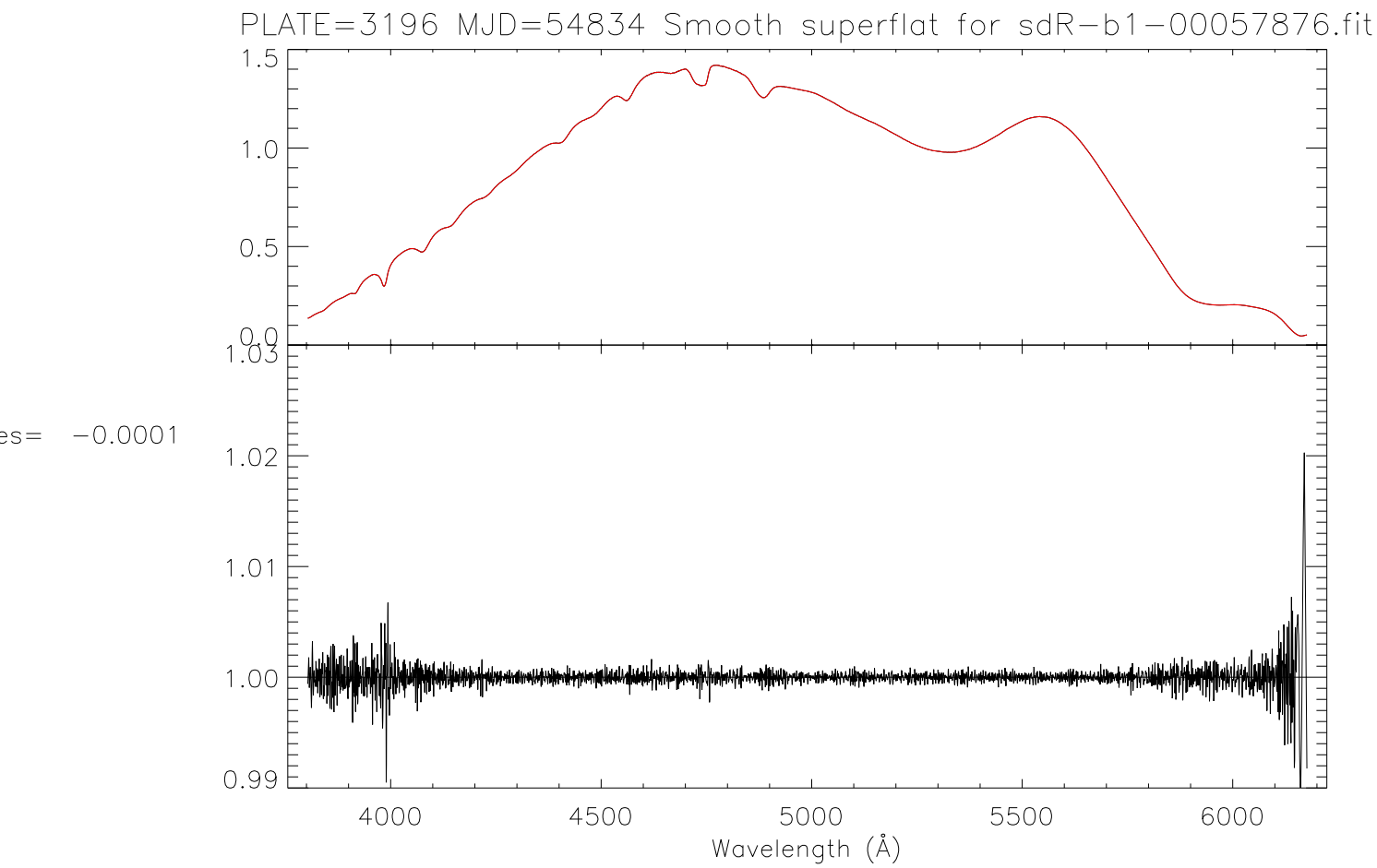

5577.3390
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400


5889.9500
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

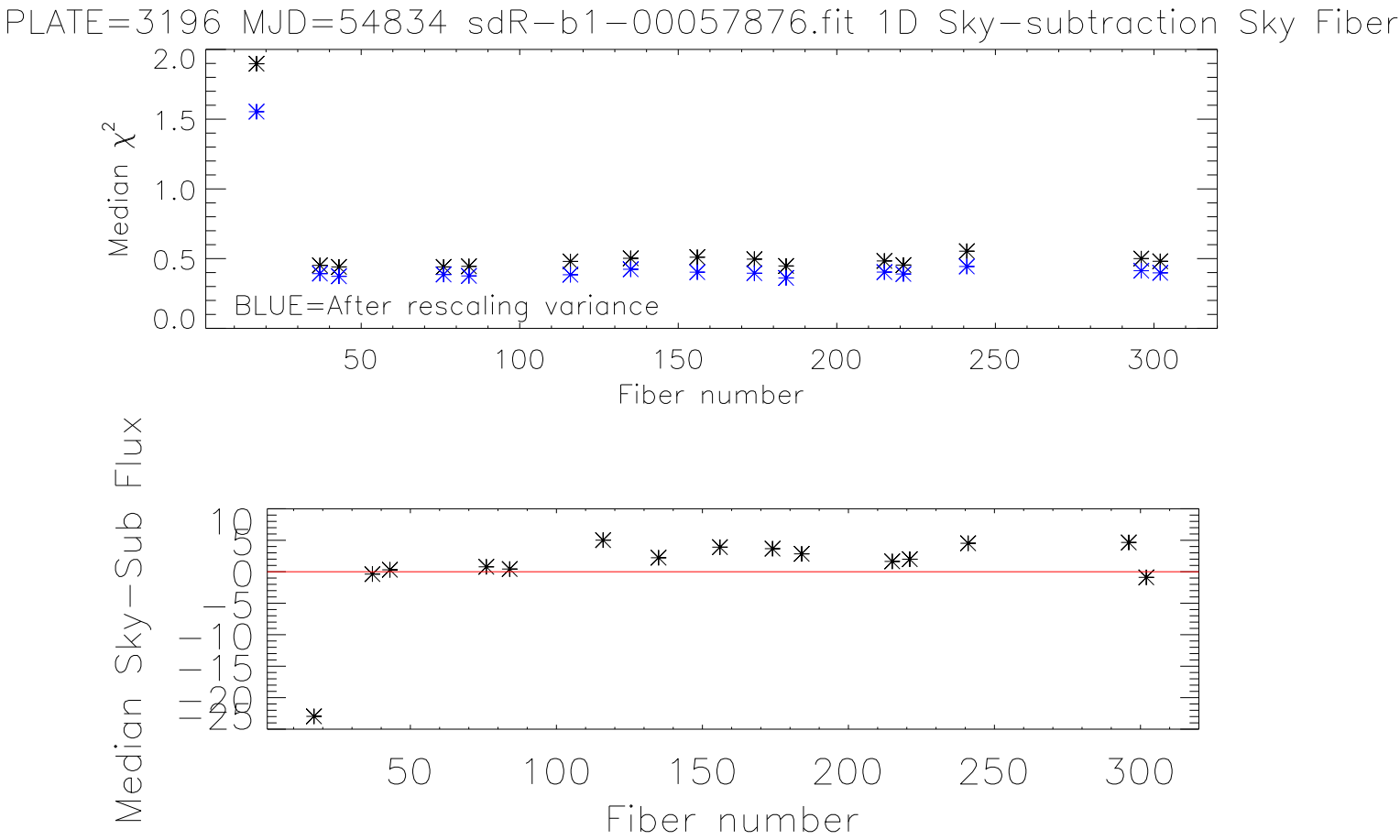

5895.9240
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

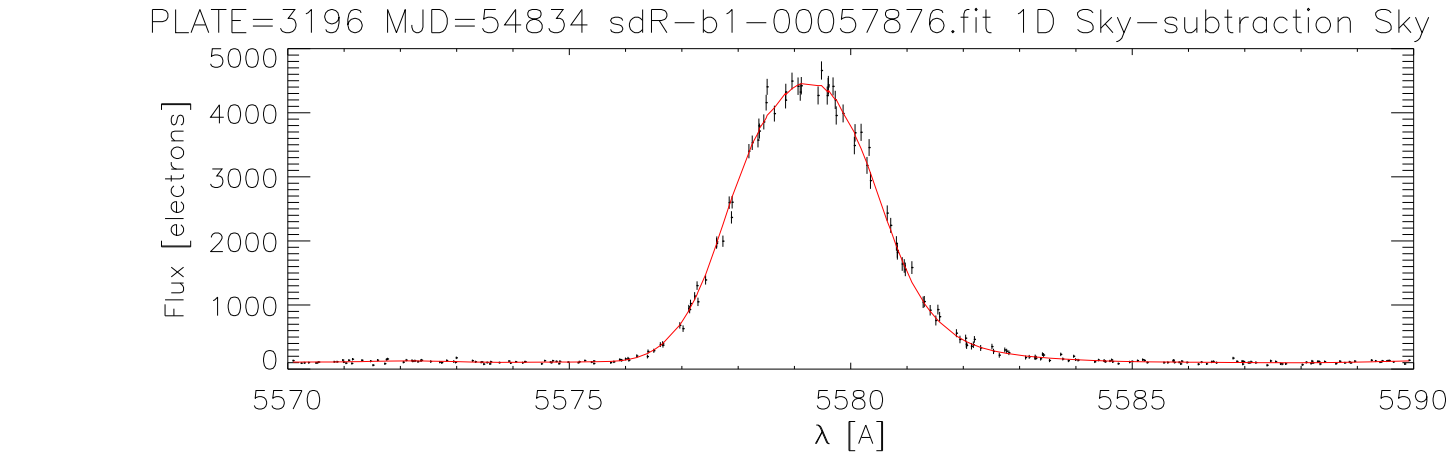

4046.5600
nfib1 15
nfib2 15
stdev 0.100
extra 0.37
4358.3300
nfib1 15
nfib2 15
stdev 0.060
extra 0.33
5460.9400
nfib1 16
nfib2 16
stdev 0.044
extra 0.38
5577.3390
nfib1 16
nfib2 16
stdev 0.021
extra 0.45
5889.9500
nfib1 16
nfib2 16
stdev 0.028
extra 0.56
5895.9240
nfib1 16
nfib2 16
stdev 0.039
extra 0.54
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

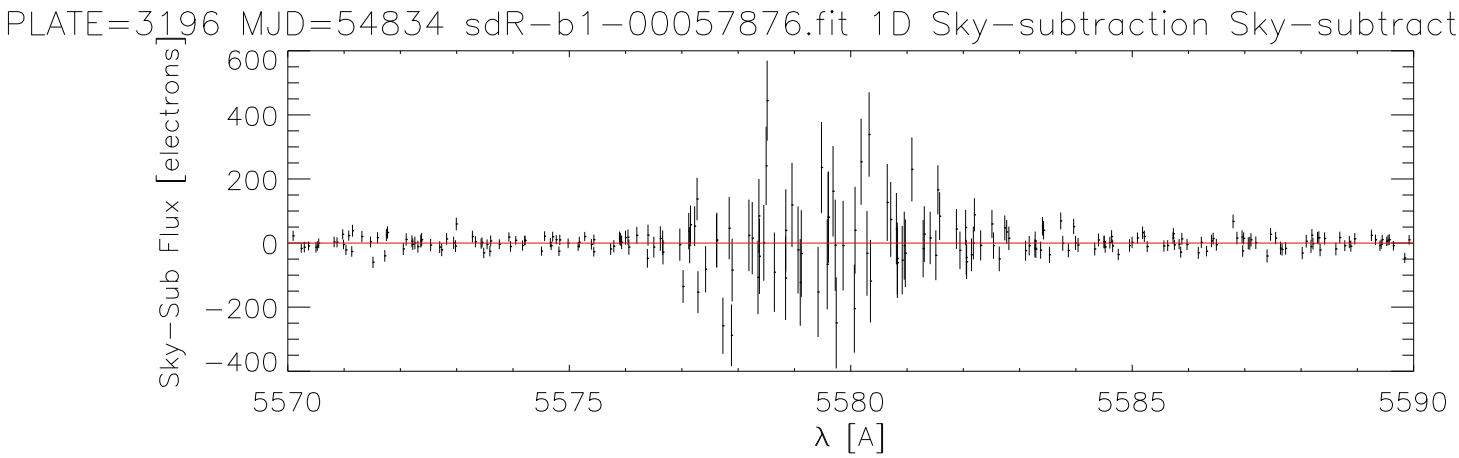

sky shift, pixels
0.2
0.3
0.4
0.5
3500
4000
4500
5000
5500
6000
6500

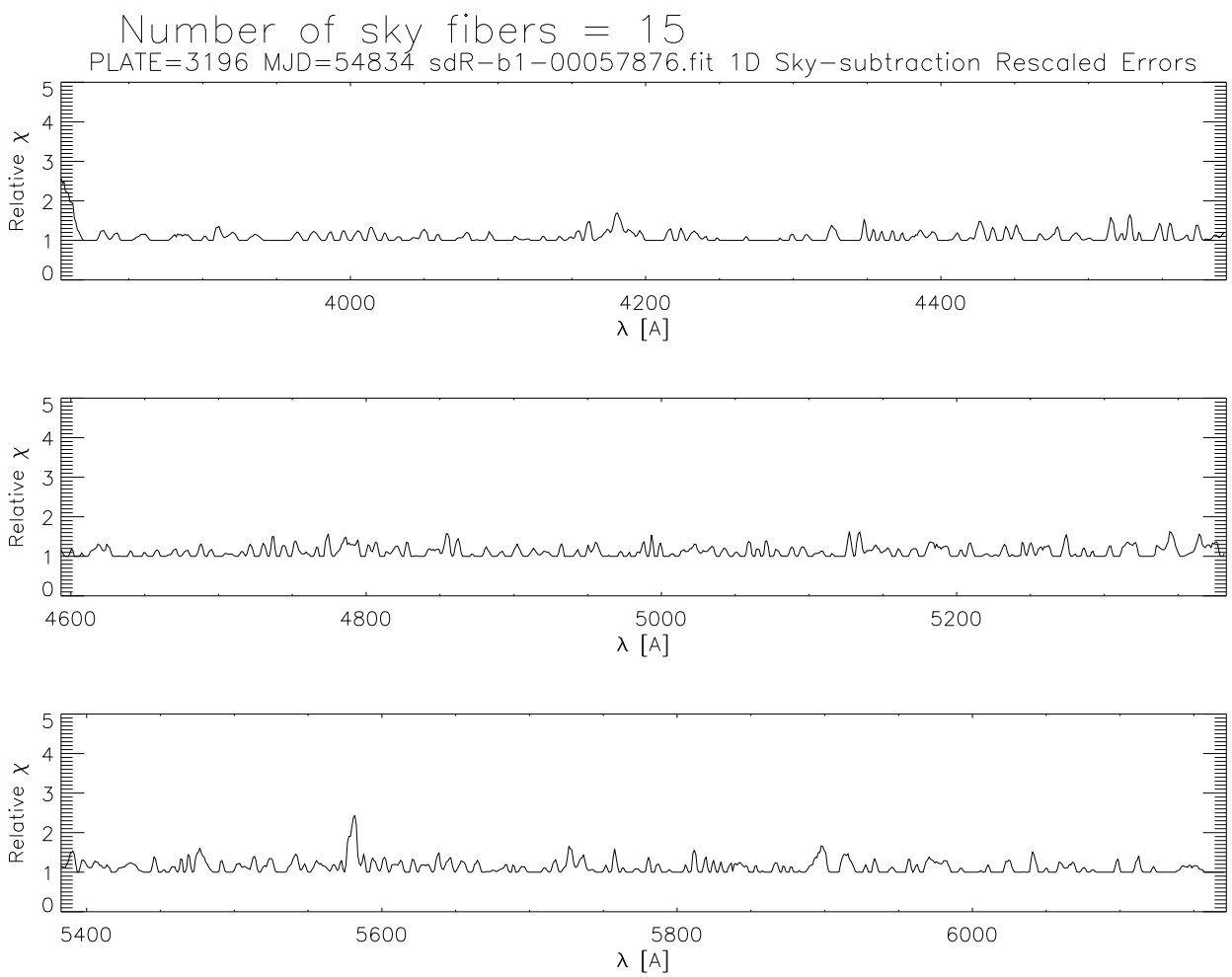

PLATE=3196 MJD=54834 Smooth superflat for sdR-b1-00057876.fit
1.5
1.0
0.5
0.0
1.03
1.02
1.01
1.00
0.99
4000
4500
5000
5500
6000
Wavelength (Å)

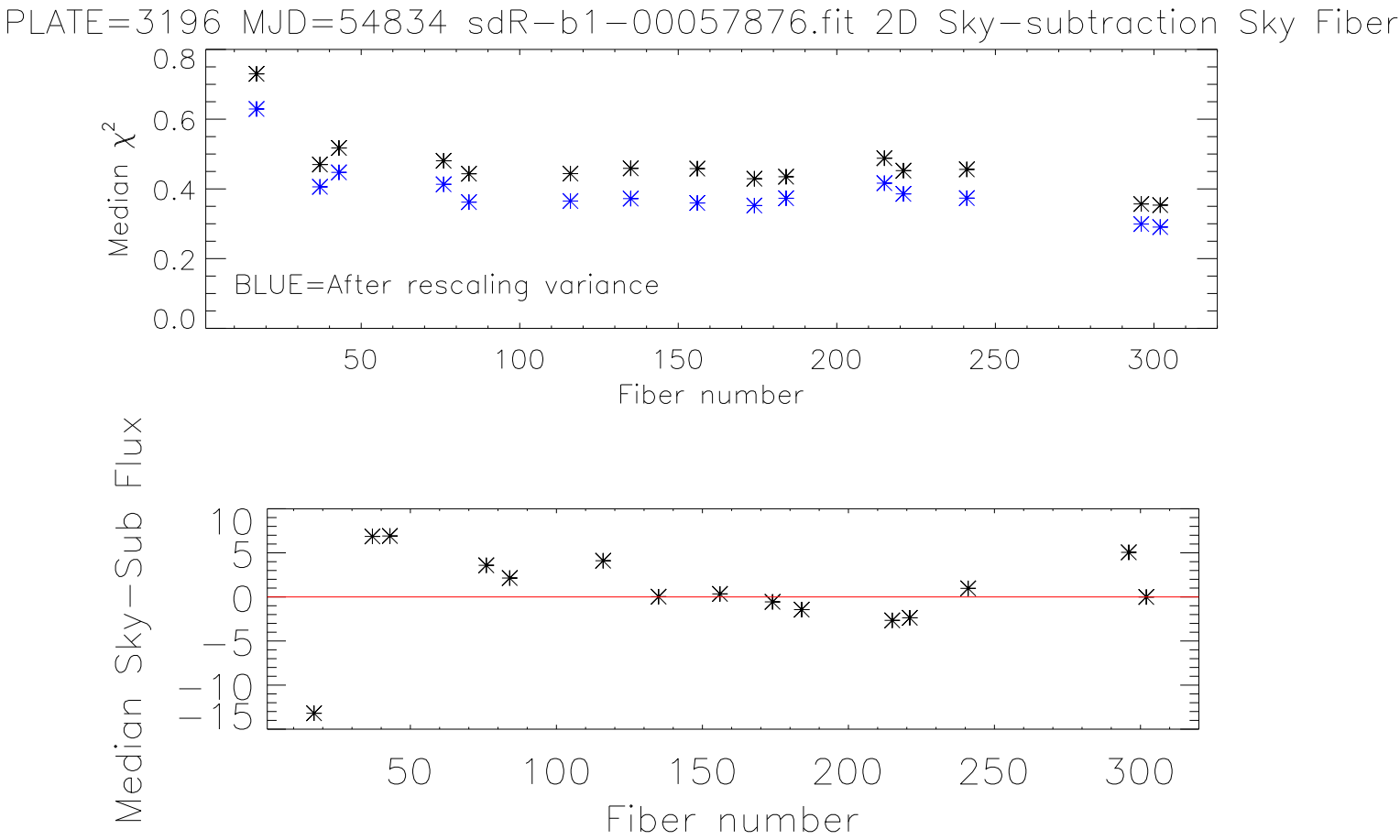
es= −0.0001

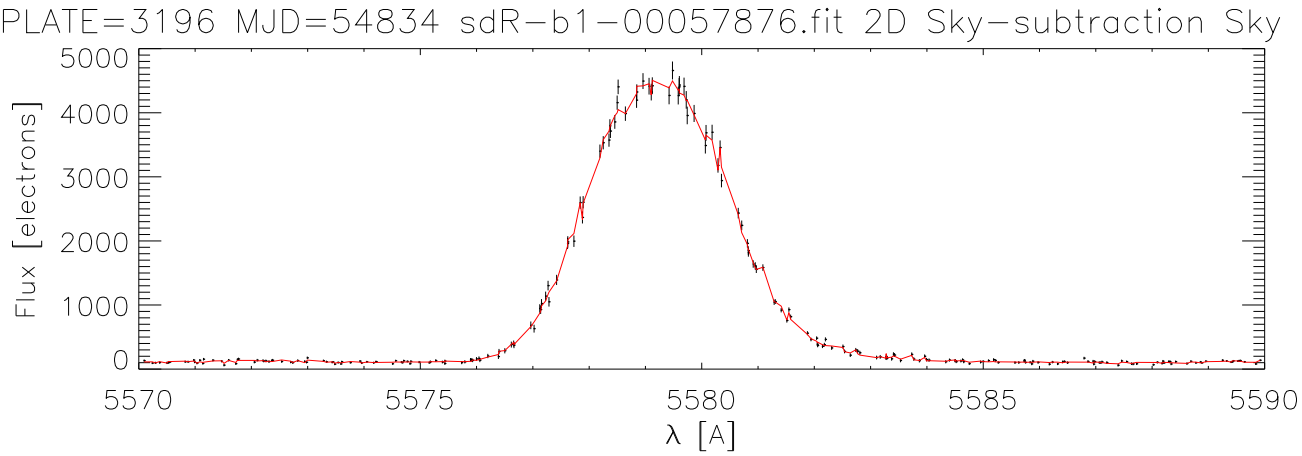

PLATE=3196 MJD=54834 sdR-b1-00057876.fit 1D Sky-subtraction Sky Fiber
Median χ^2
2.0
1.5
1.0
0.5
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
-20
-25
50
100
150
200
250
300
Fiber number

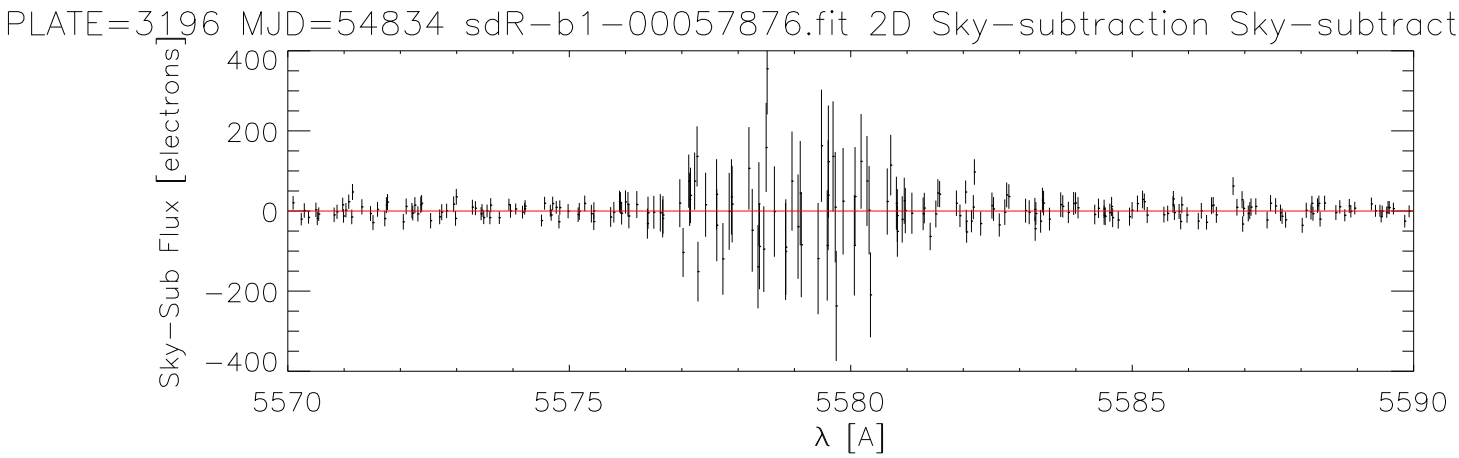

PLATE=3196 MJD=54834 sdR-b1-00057876.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

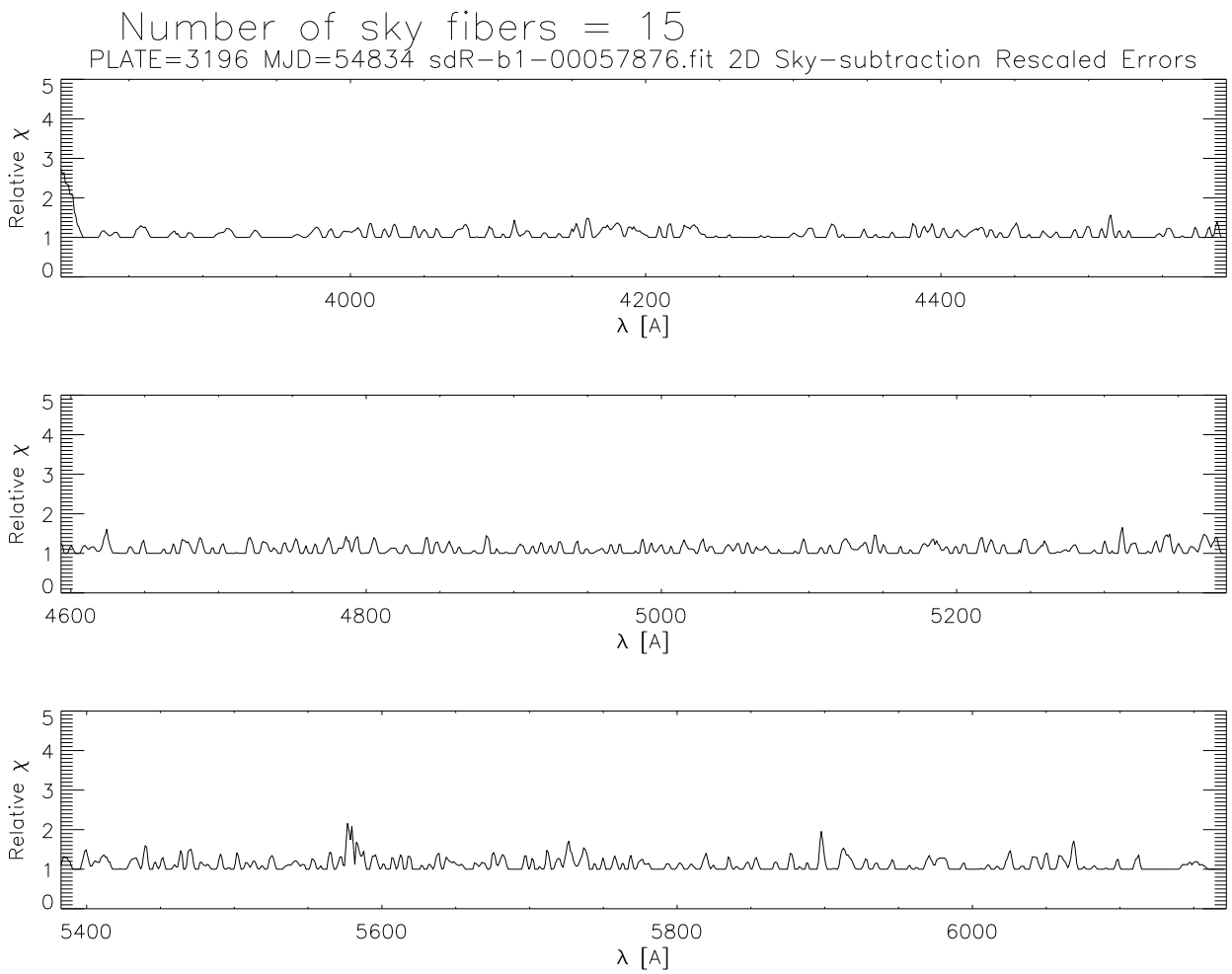

PLATE=3196 MJD=54834 sdR-b1-00057876.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

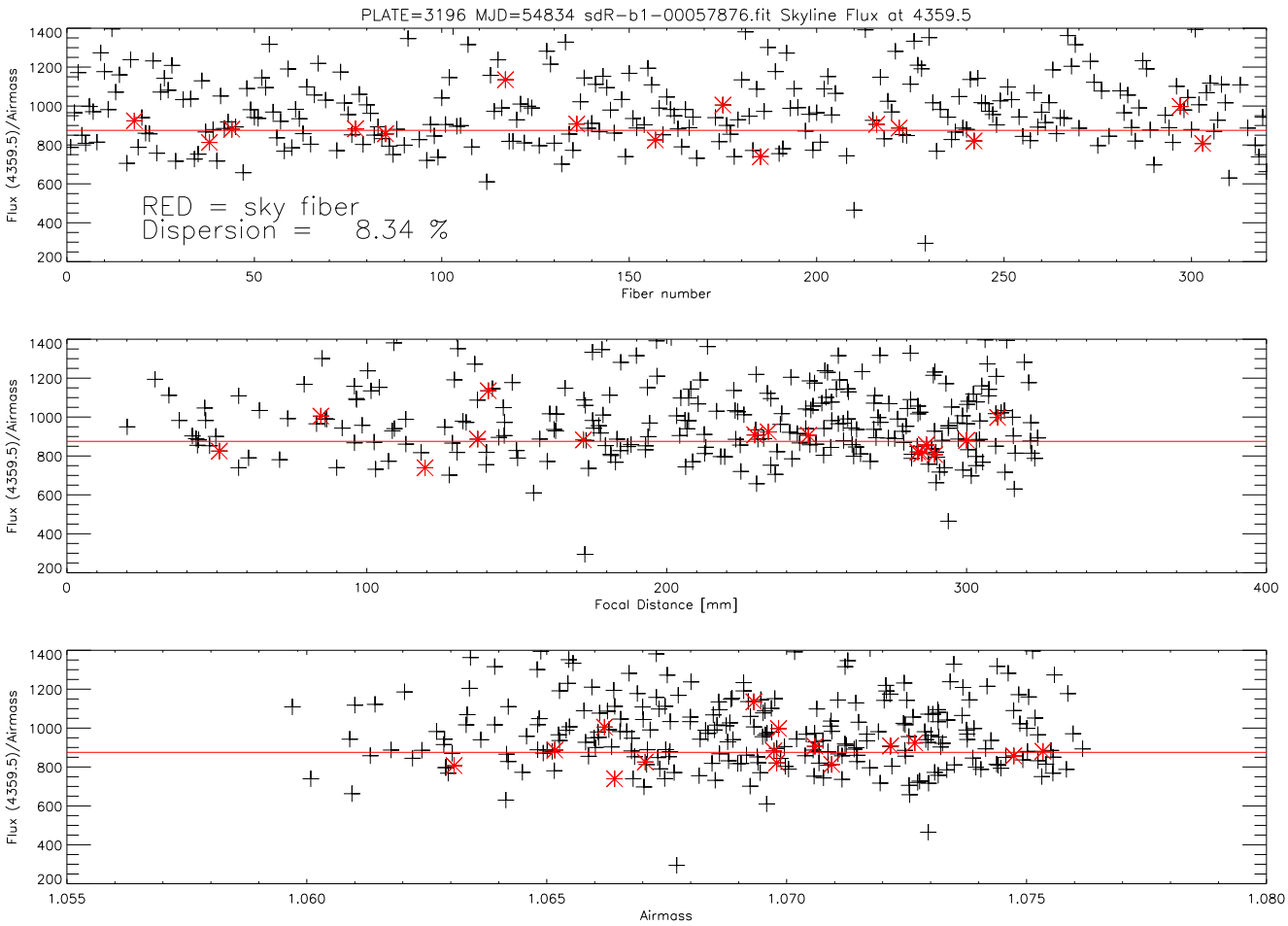

Number of sky fibers = 15
PLATE=3196 MJD=54834 sdR-b1-00057876.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

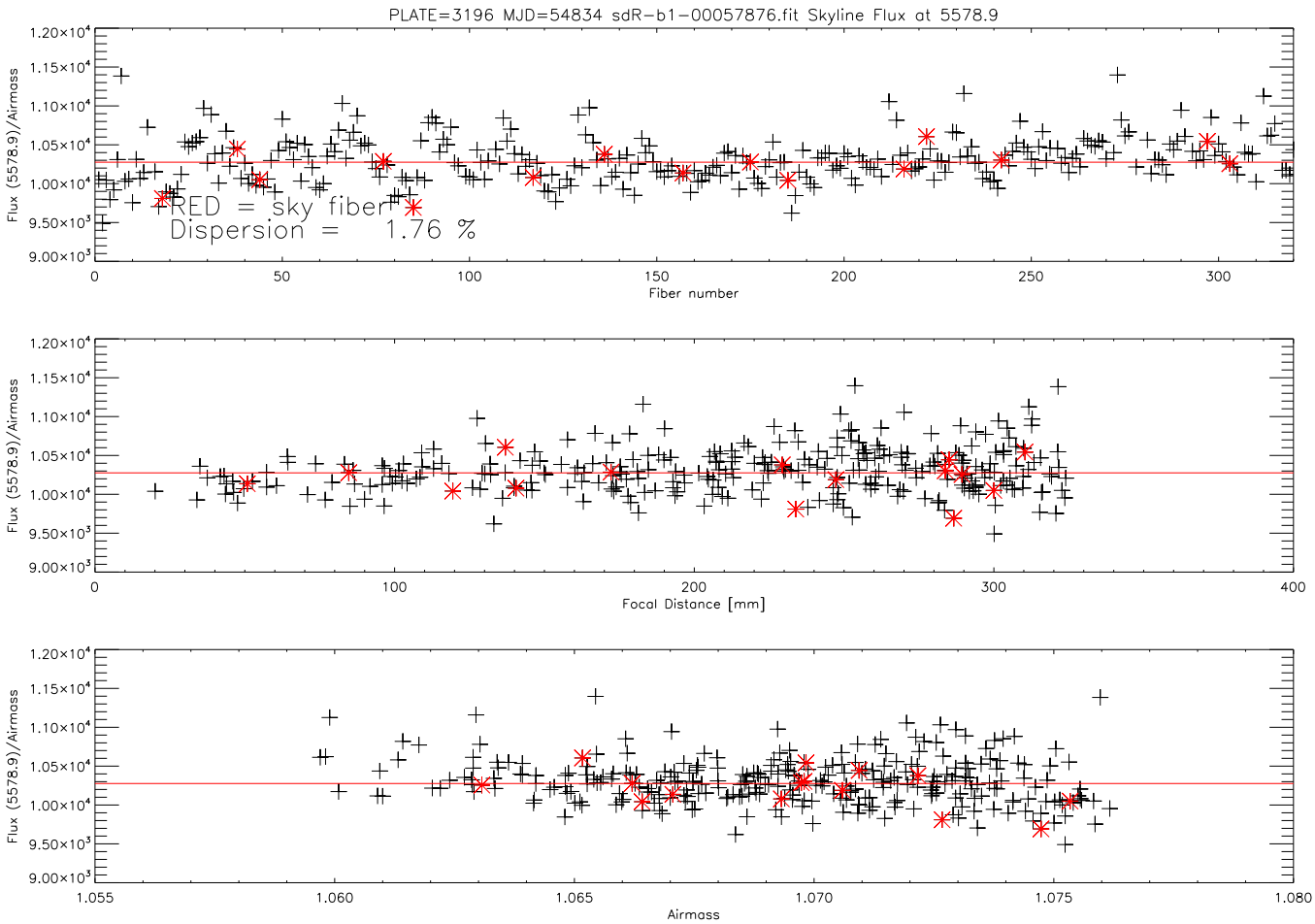

PLATE=3196 MJD=54834 sdR-b1-00057876.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

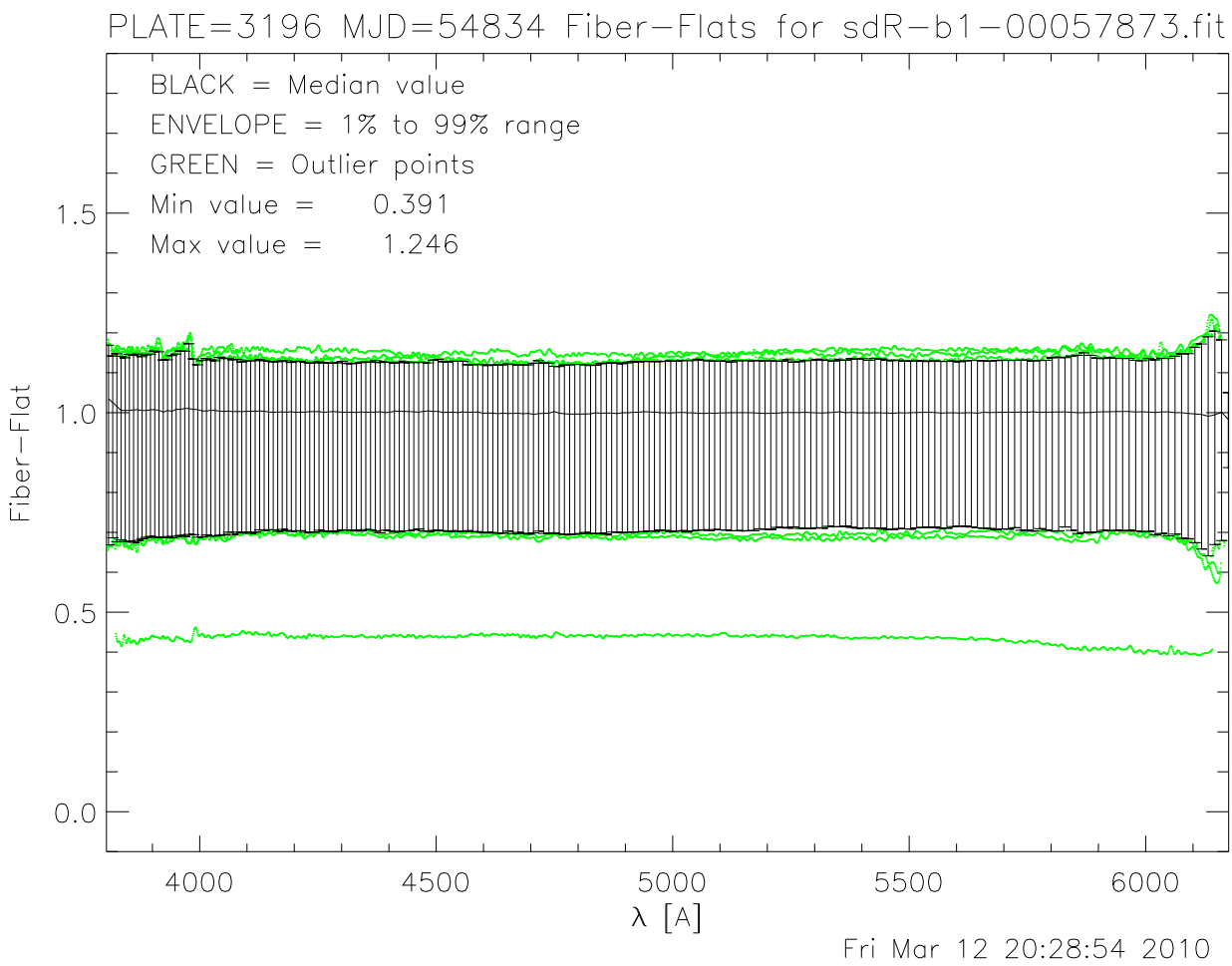

PLATE=3196 MJD=54834 sdR-b1-00057876.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

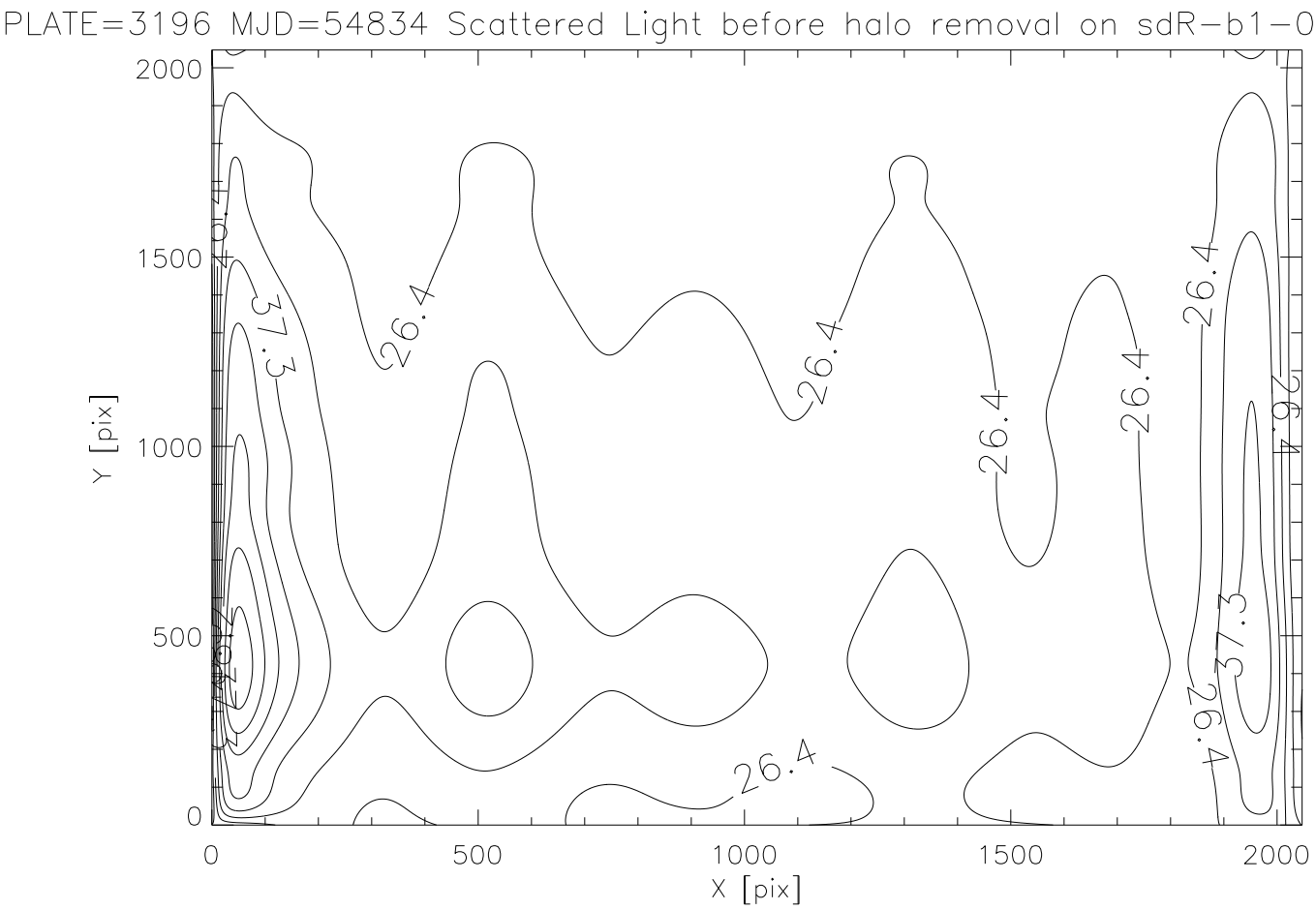

PLATE=3196 MJD=54834 sdR-b1-00057876.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

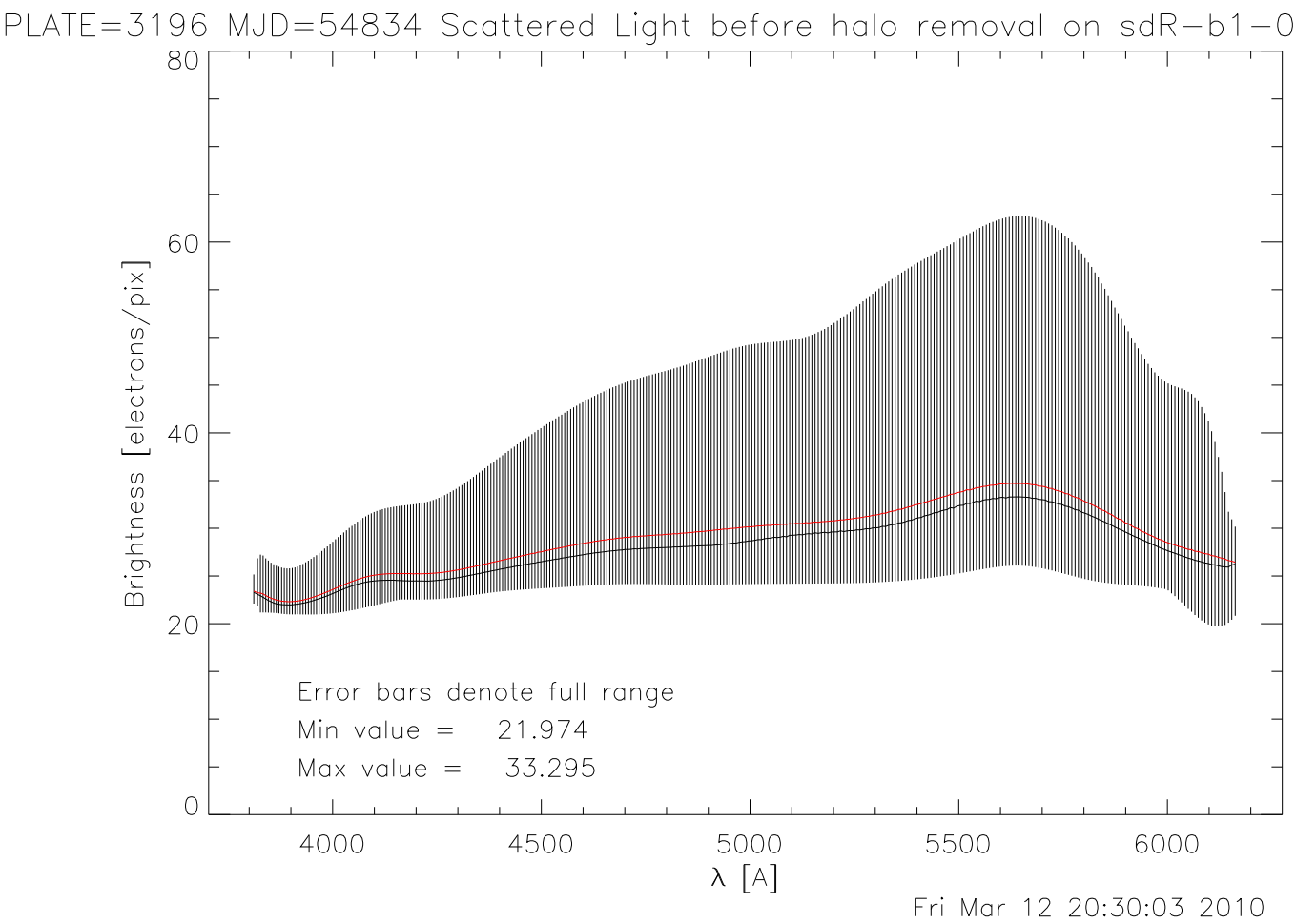

Number of sky fibers = 15
PLATE=3196 MJD=54834 sdR-b1-00057876.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

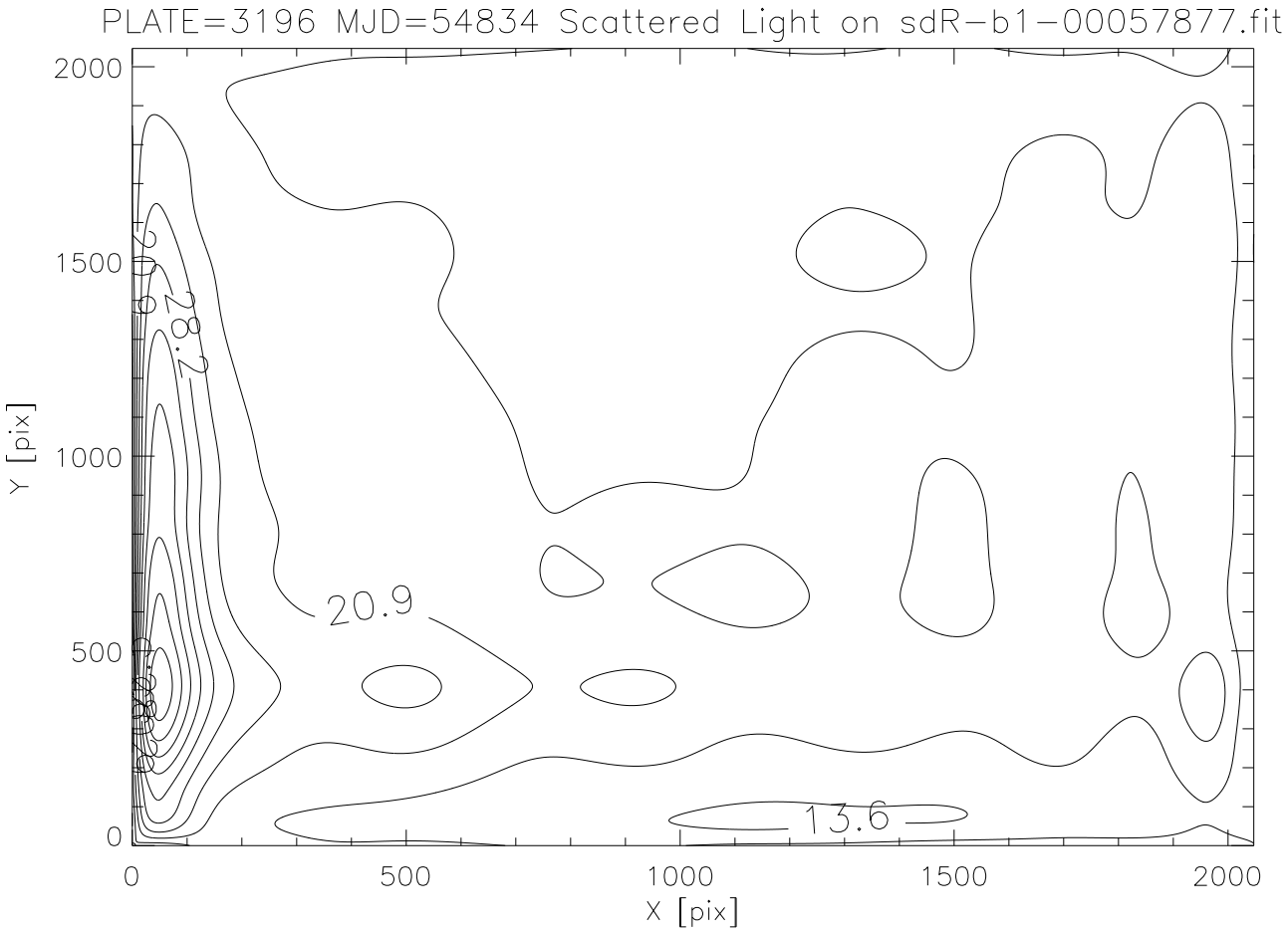

PLATE=3196 MJD=54834 sdR-b1-00057876.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 8.34 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

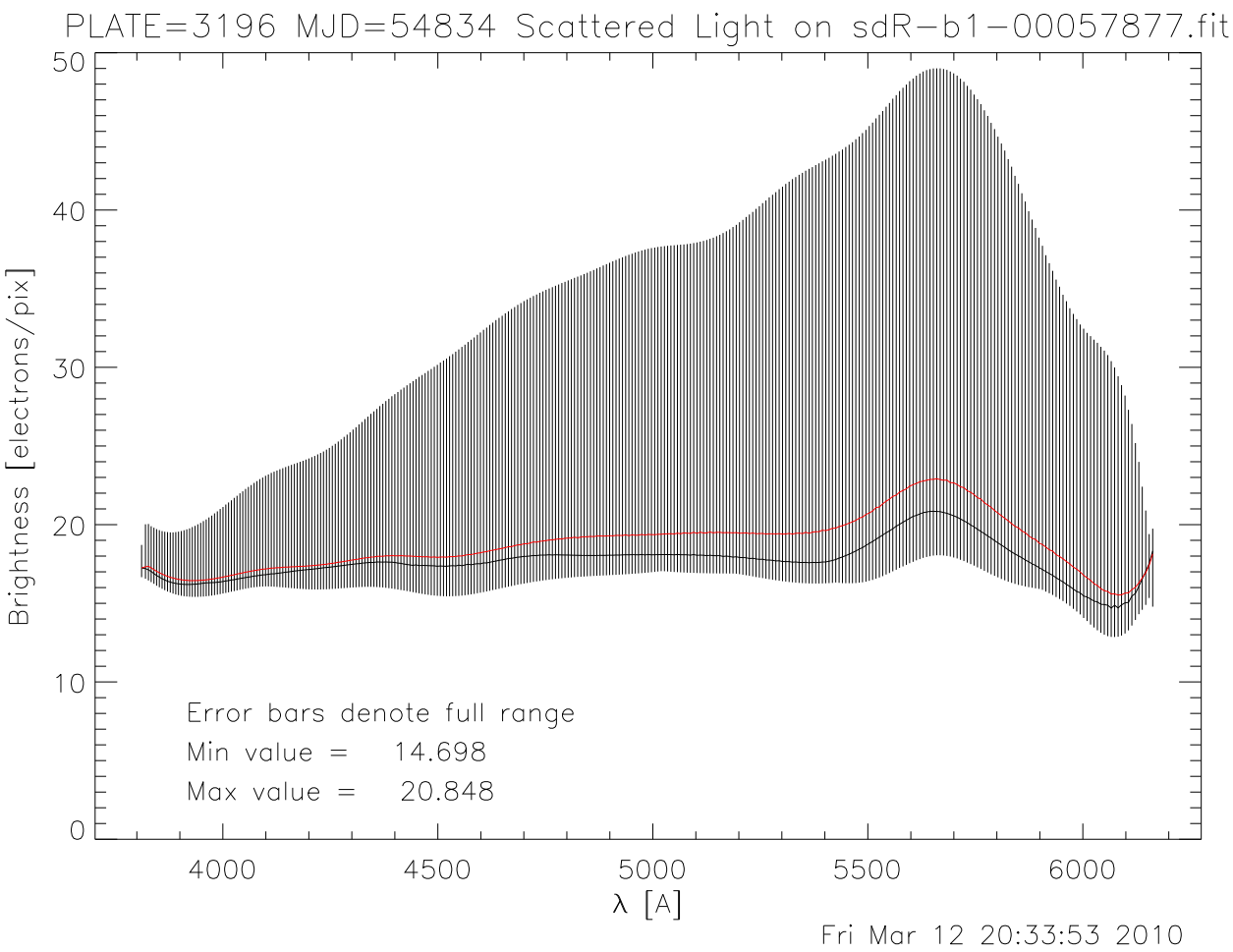

PLATE=3196 MJD=54834 sdR-b1-00057876.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.76 %
Focal Distance [mm]
Airmass

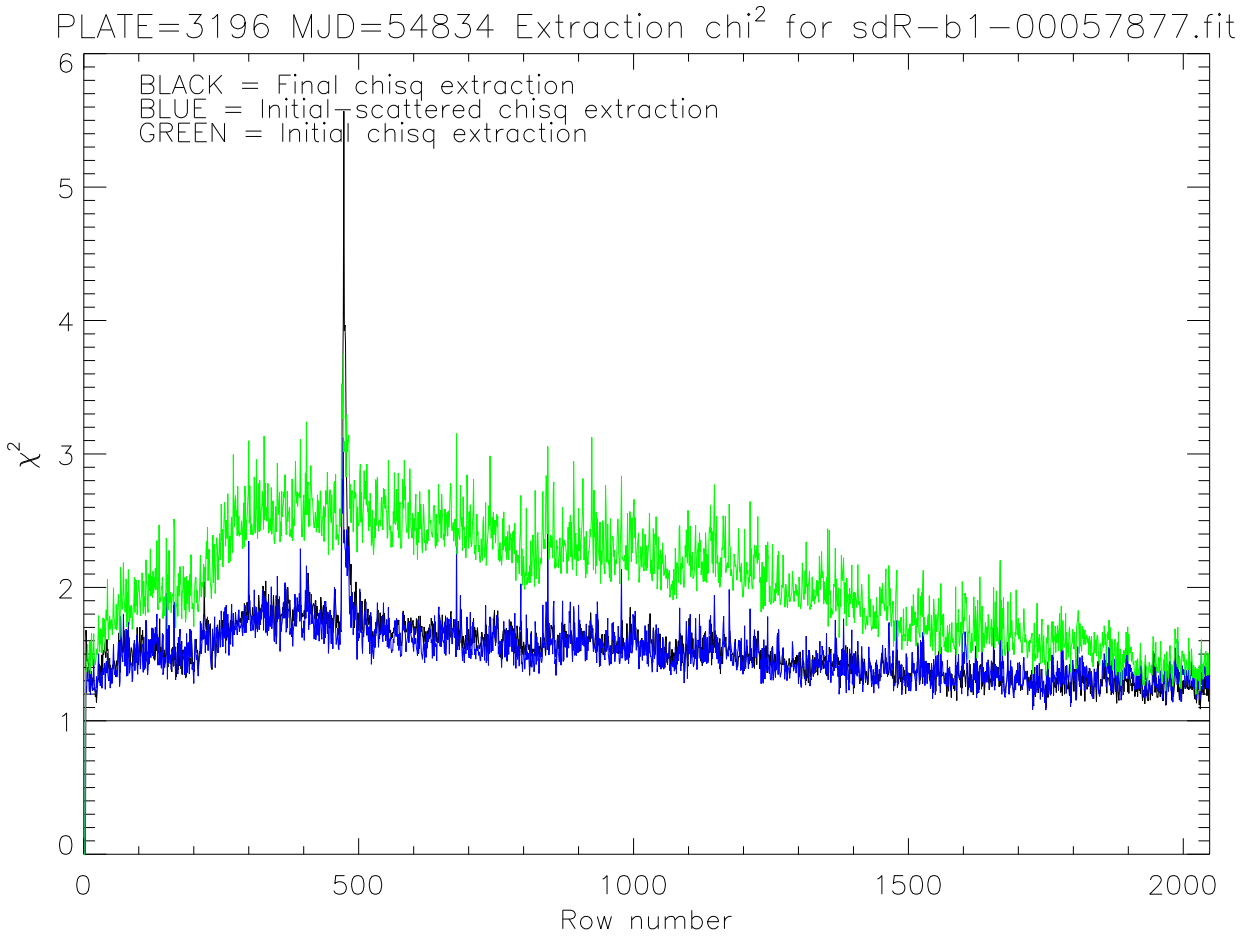

PLATE=3196 MJD=54834 Fiber−Flats for sdR−b1−00057873.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.391
Max value = 1.246
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Fri Mar 12 20:28:54 2010

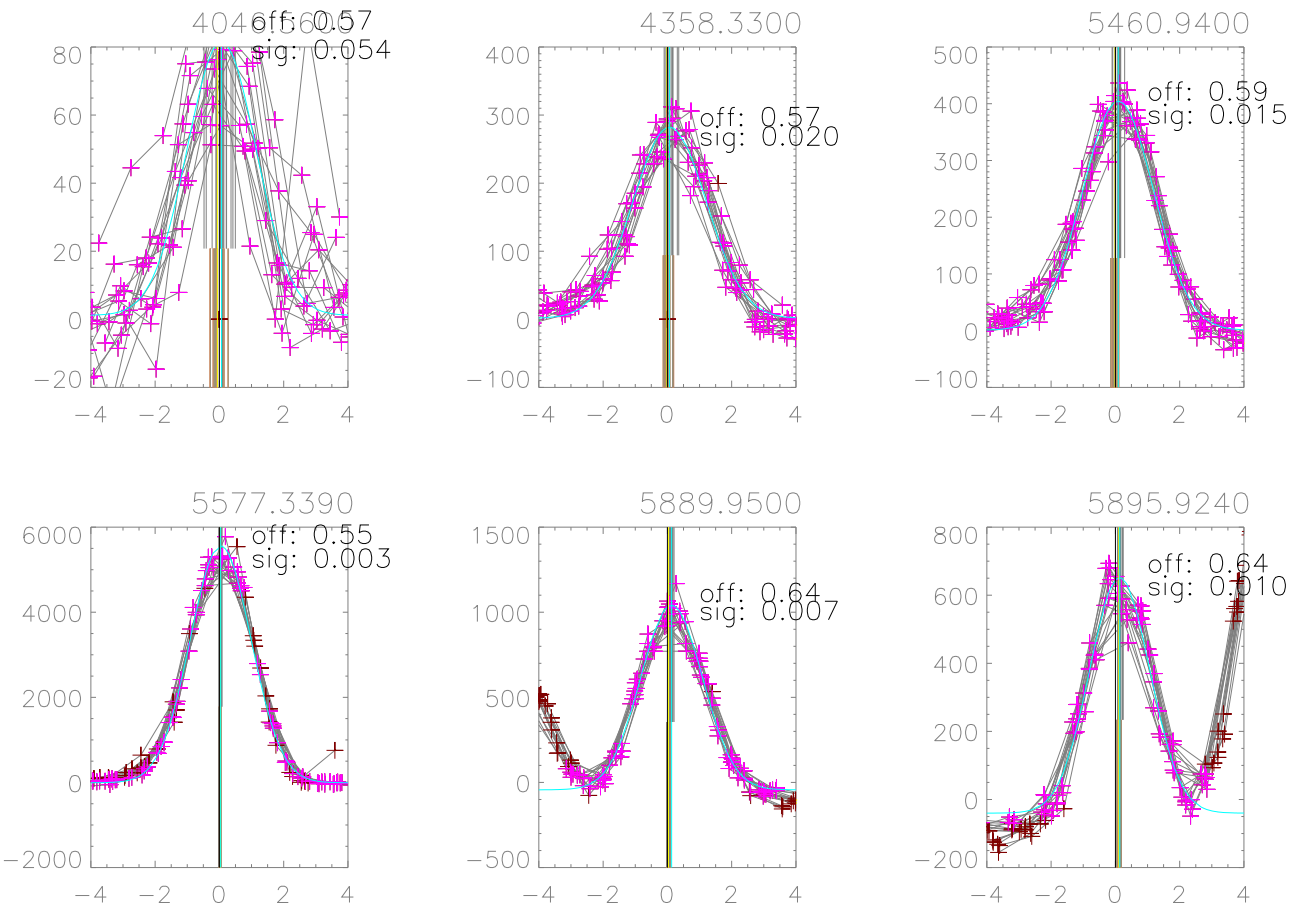

PLATE=3196 MJD=54834 Scattered Light before halo removal on sdR−b1−00057877.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
26.4
37.3

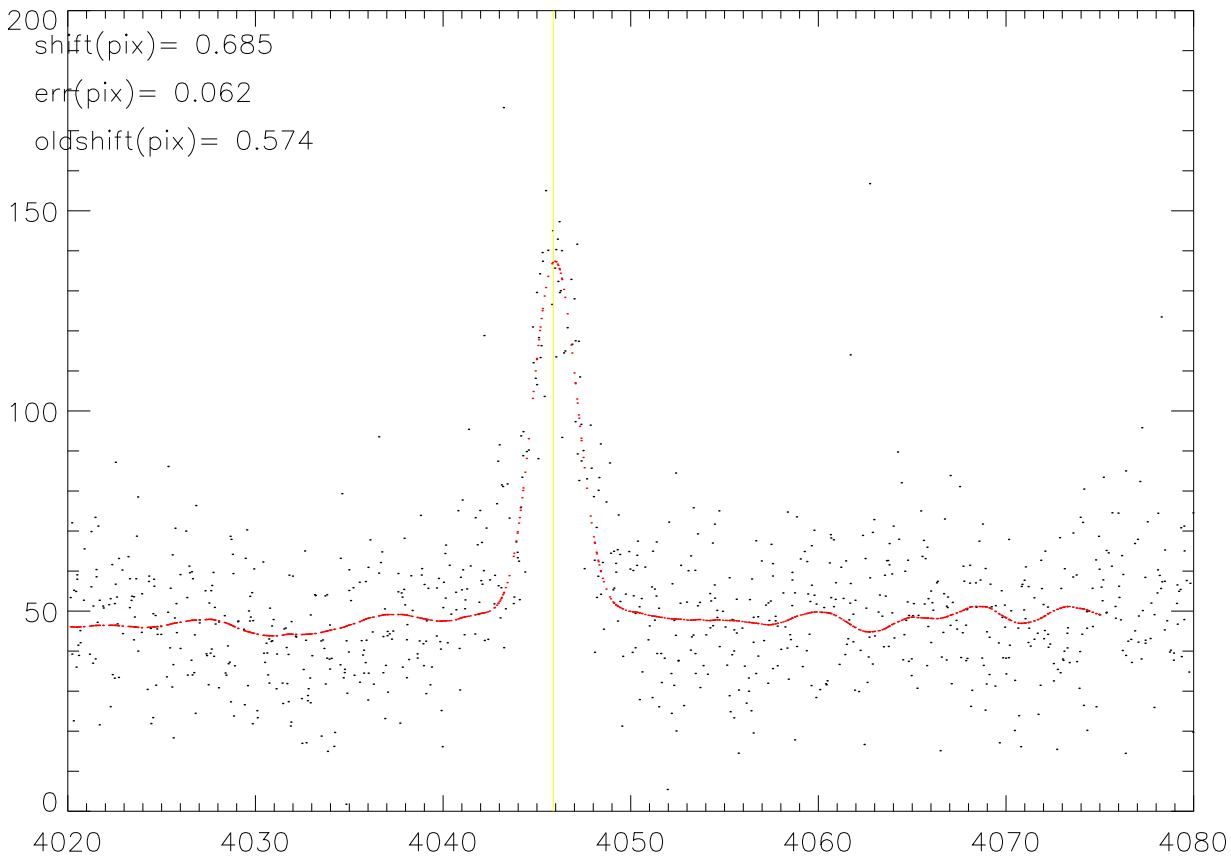

PLATE=3196 MJD=54834 Scattered Light before halo removal on sdR-b1-00057877.f
Brightness [electrons/pix]
80
60
40
20
0
Error bars denote full range
Min value = 21.974
Max value = 33.295
4000
4500
5000
5500
6000
λ [A]
Fri Mar 12 20:30:03 2010

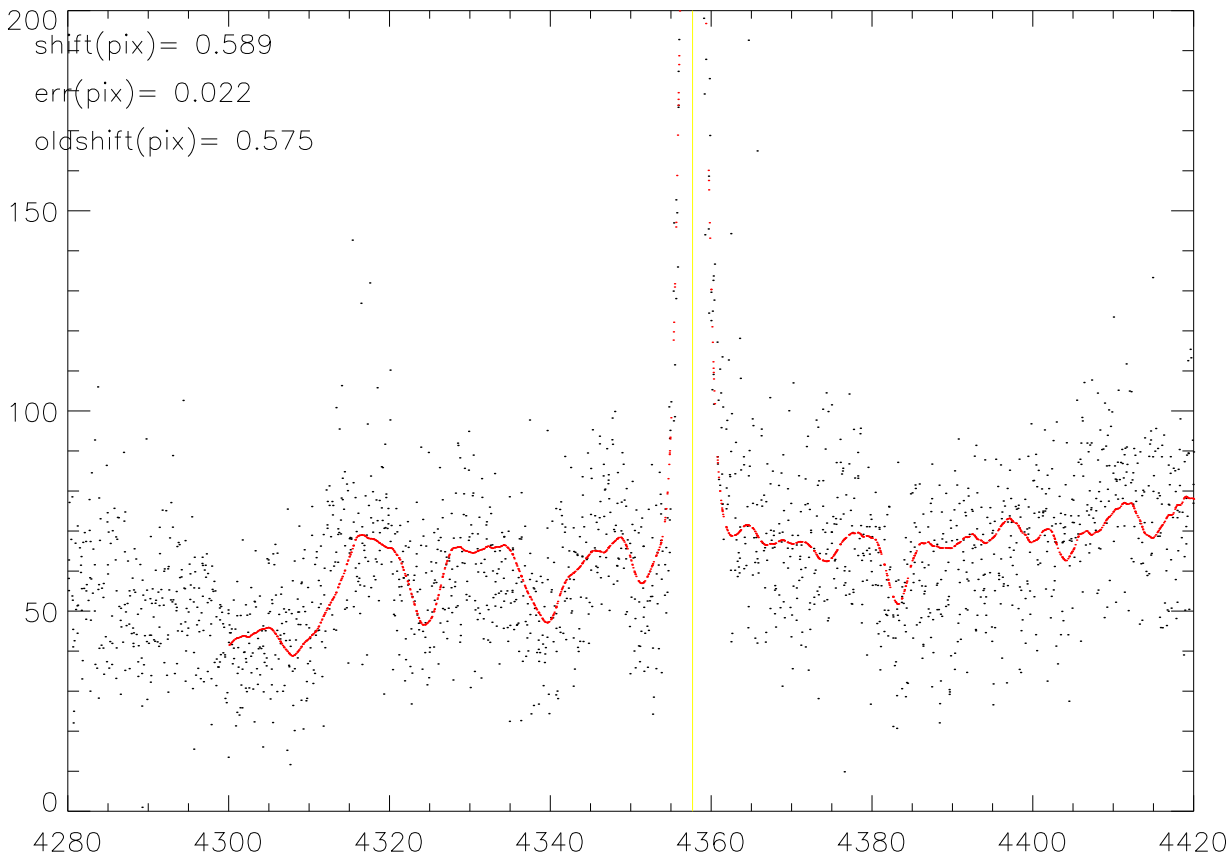

PLATE=3196 MJD=54834 Scattered Light on sdR-b1-00057877.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
28.2
20.9
13.6

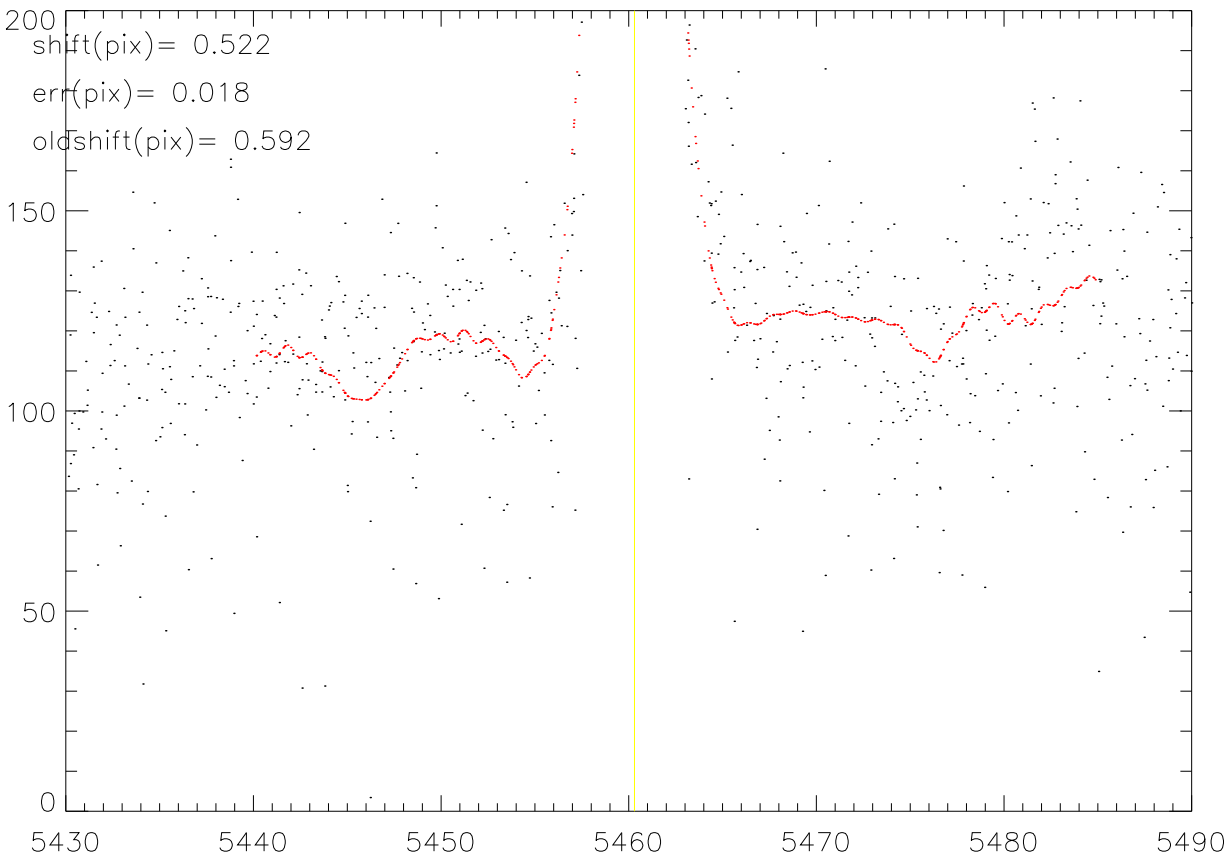

PLATE=3196 MJD=54834 Scattered Light on sdR-b1-00057877.fit
Brightness [electrons/pix]
50
40
30
20
10
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 14.698
Max value = 20.848
Fri Mar 12 20:33:53 2010

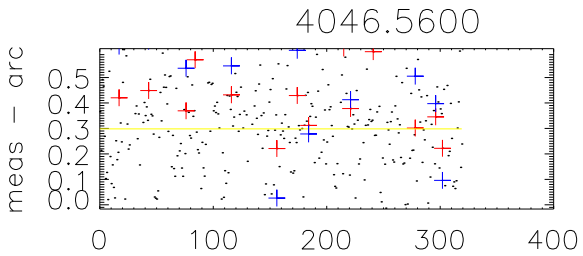

PLATE=3196 MJD=54834 Extraction chi^2 for sdR-b1-00057877.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
6
0
500
1000
1500
2000

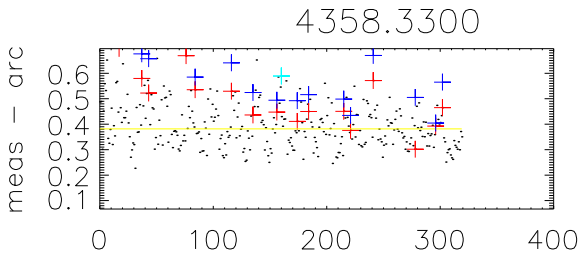

4046.5600
off: 0.57
sig: 0.054
4358.3300
off: 0.57
sig: 0.020
5460.9400
off: 0.59
sig: 0.015
5577.3390
off: 0.55
sig: 0.003
5889.9500
off: 0.64
sig: 0.007
5895.9240
off: 0.64
sig: 0.010

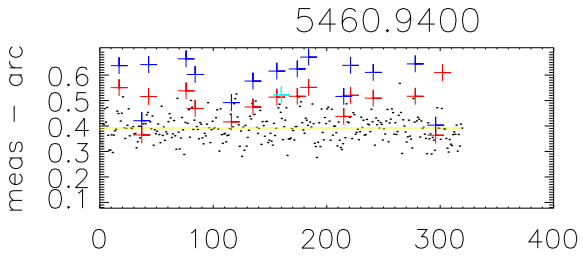

shift(pix)= 0.685
err(pix)= 0.062
oldshift(pix)= 0.574
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

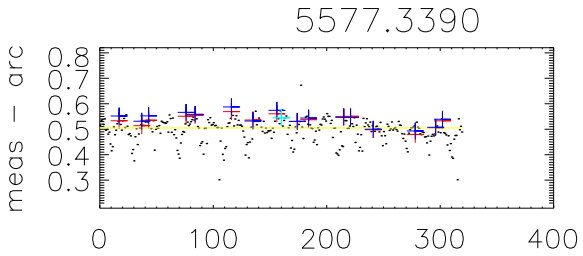

shift(pix)= 0.589
err(pix)= 0.022
oldshift(pix)= 0.575
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

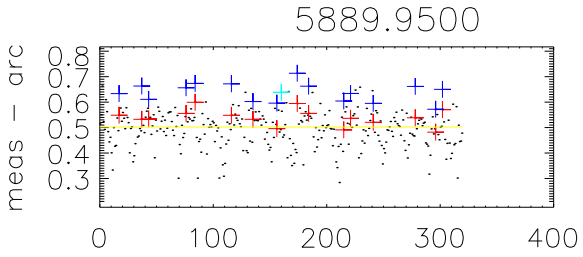

shift(pix)= 0.522
err(pix)= 0.018
oldshift(pix)= 0.592
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

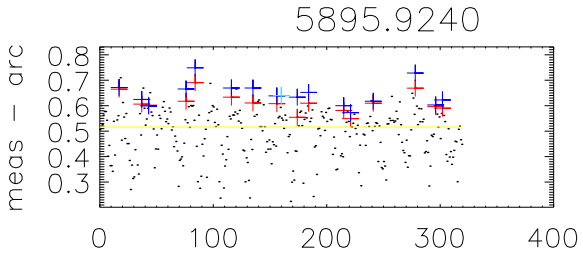

4046.5600
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

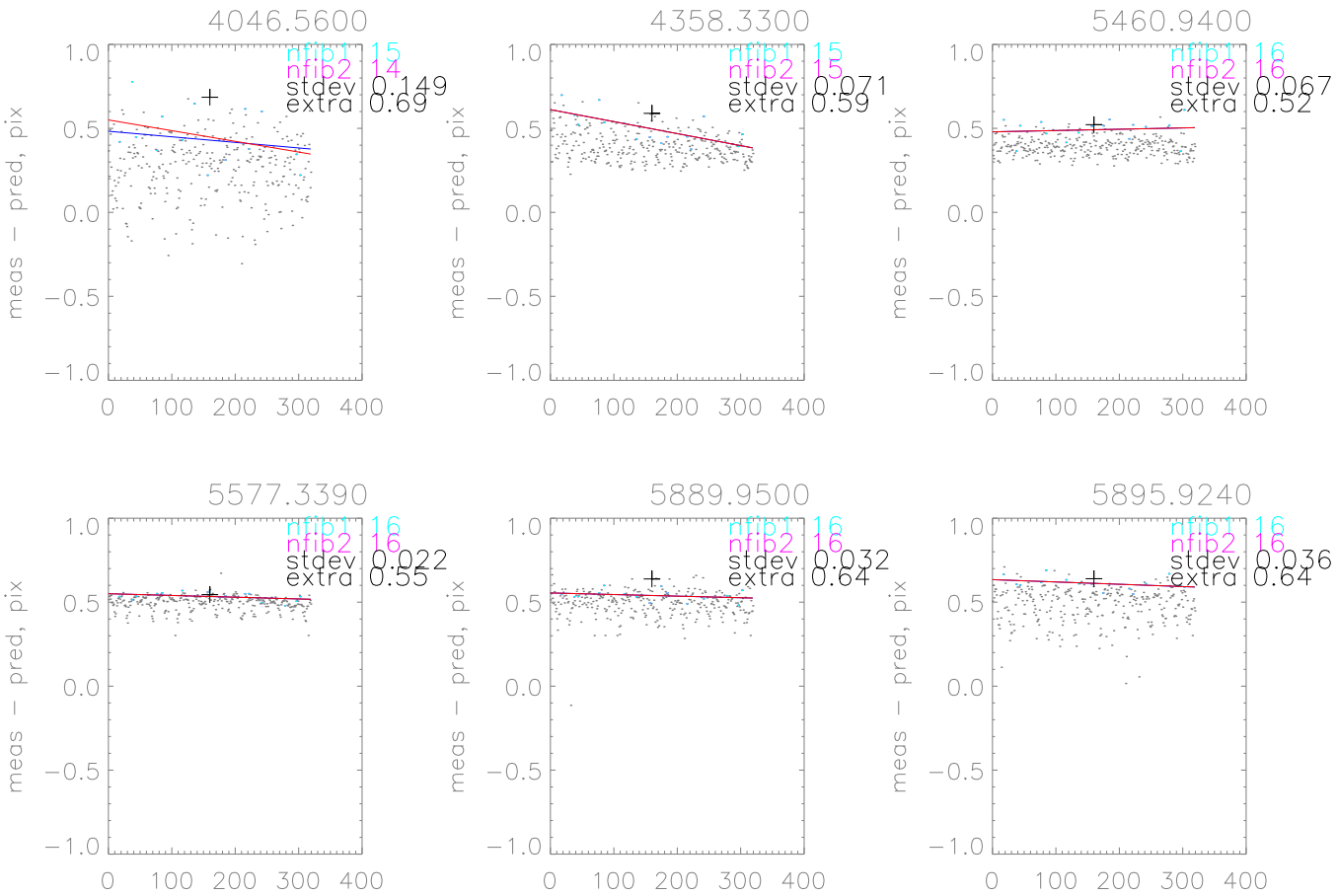

4358.3300
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

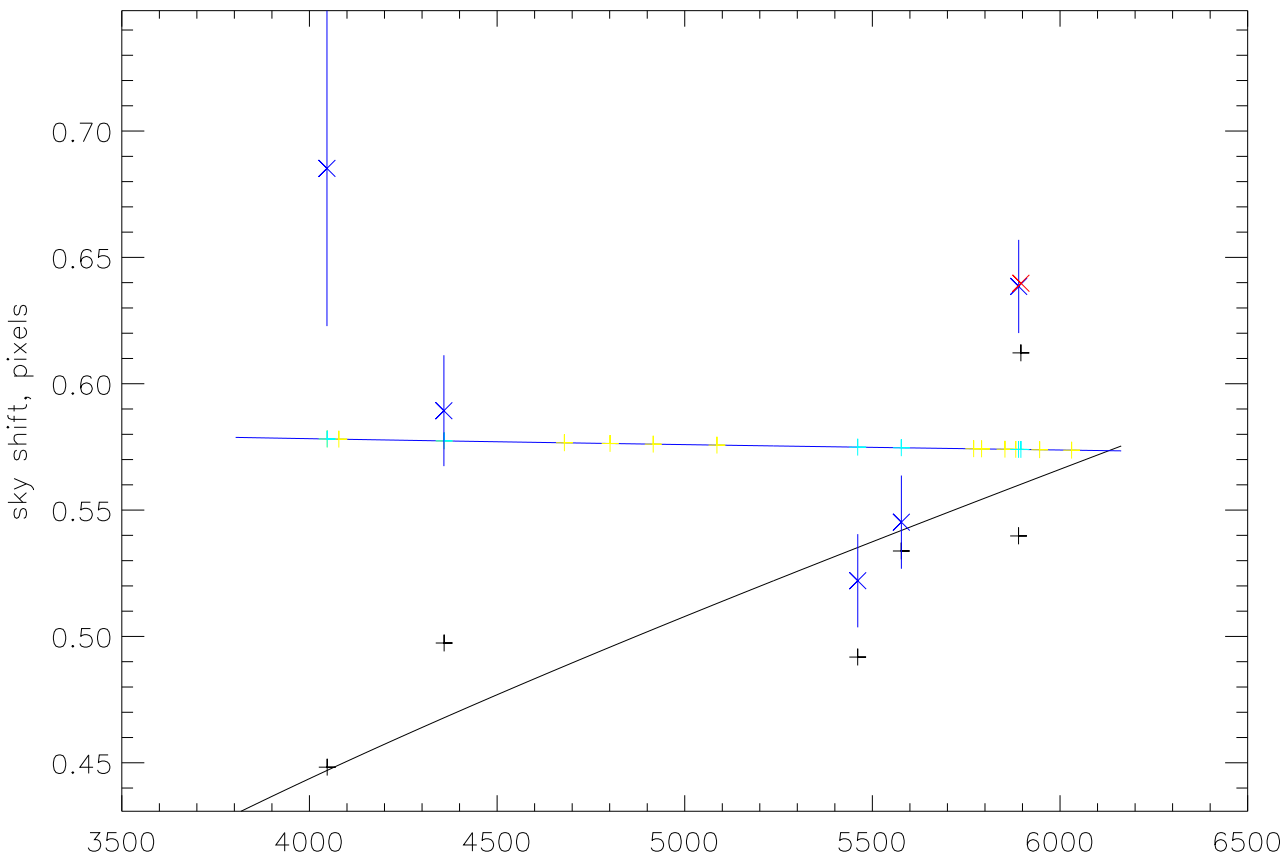

5460.9400
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400


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

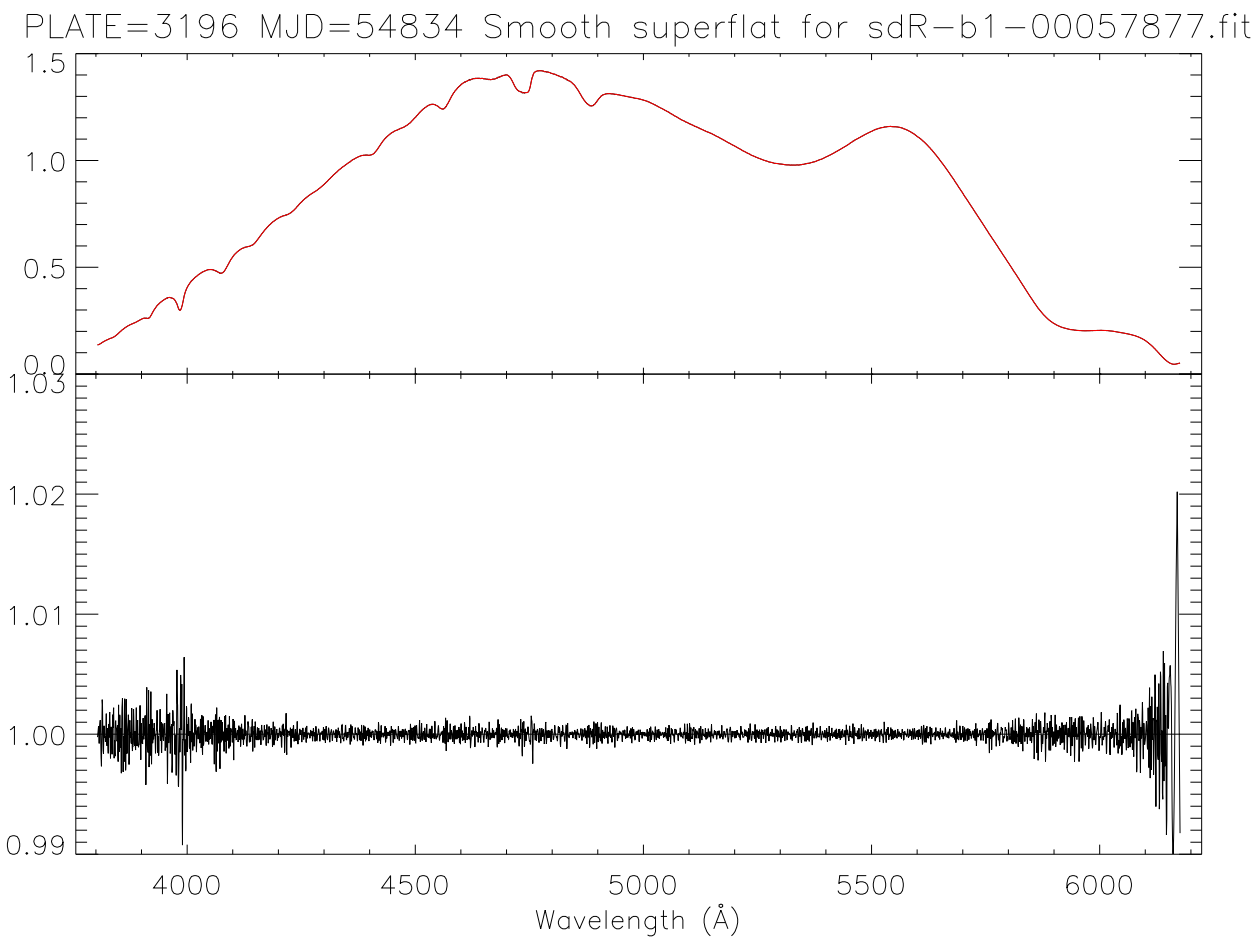

5889.9500
meas − arc
0.3
0.4
0.5
0.6
0.7
0.8
0
100
200
300
400

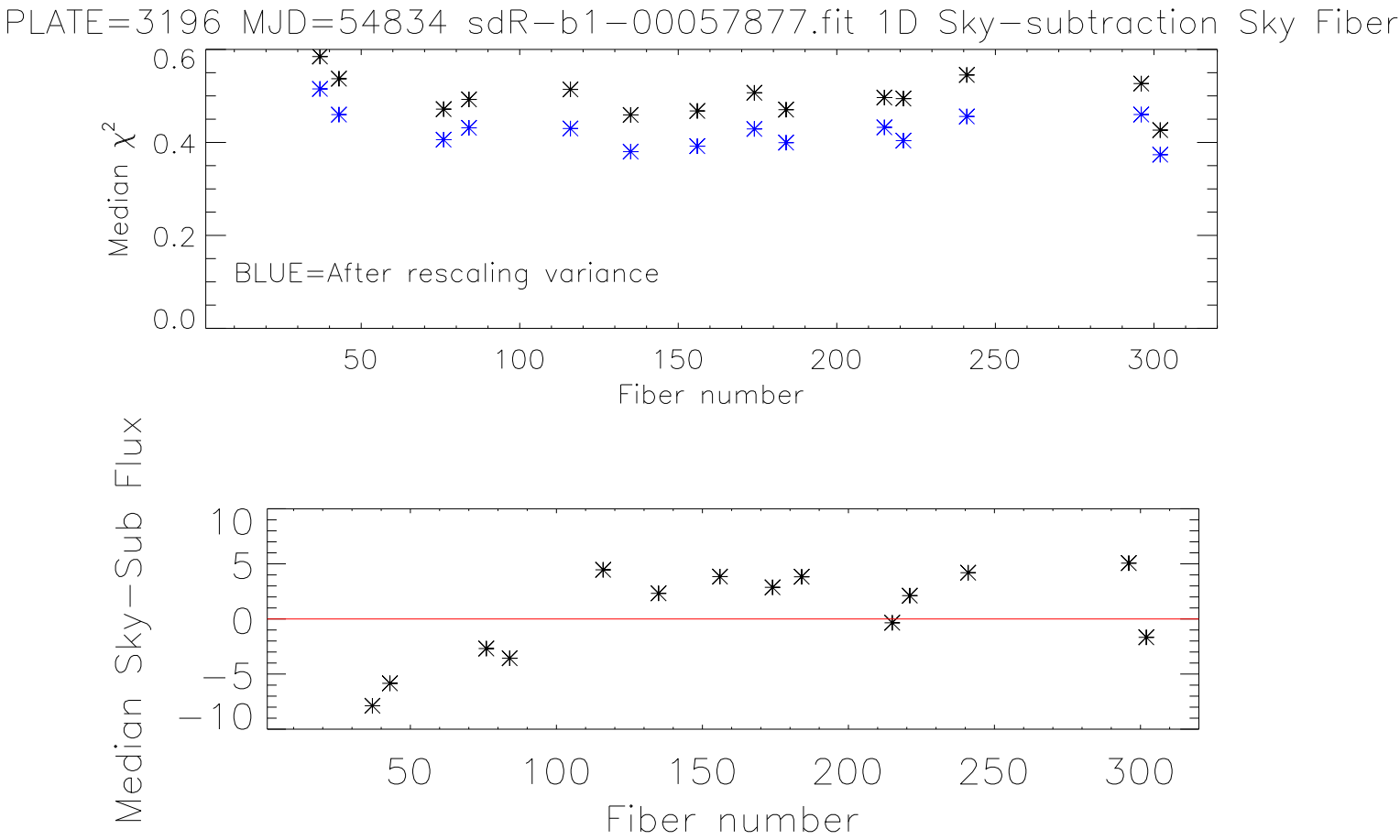

5895.9240
meas − arc
0.3
0.4
0.5
0.6
0.7
0.8
0
100
200
300
400

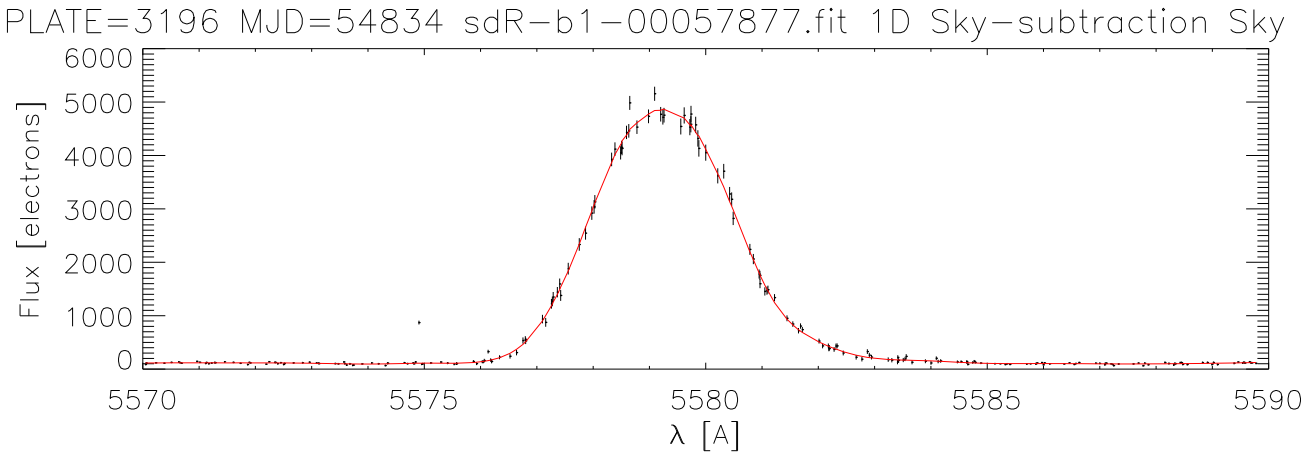

4046.5600
nfib1 15
nfib2 14
stdev 0.149
extra 0.69
4358.3300
nfib1 15
nfib2 15
stdev 0.071
extra 0.59
5460.9400
nfib1 16
nfib2 16
stdev 0.067
extra 0.52
5577.3390
nfib1 16
nfib2 16
stdev 0.022
extra 0.55
5889.9500
nfib1 16
nfib2 16
stdev 0.032
extra 0.64
5895.9240
nfib1 16
nfib2 16
stdev 0.036
extra 0.64
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

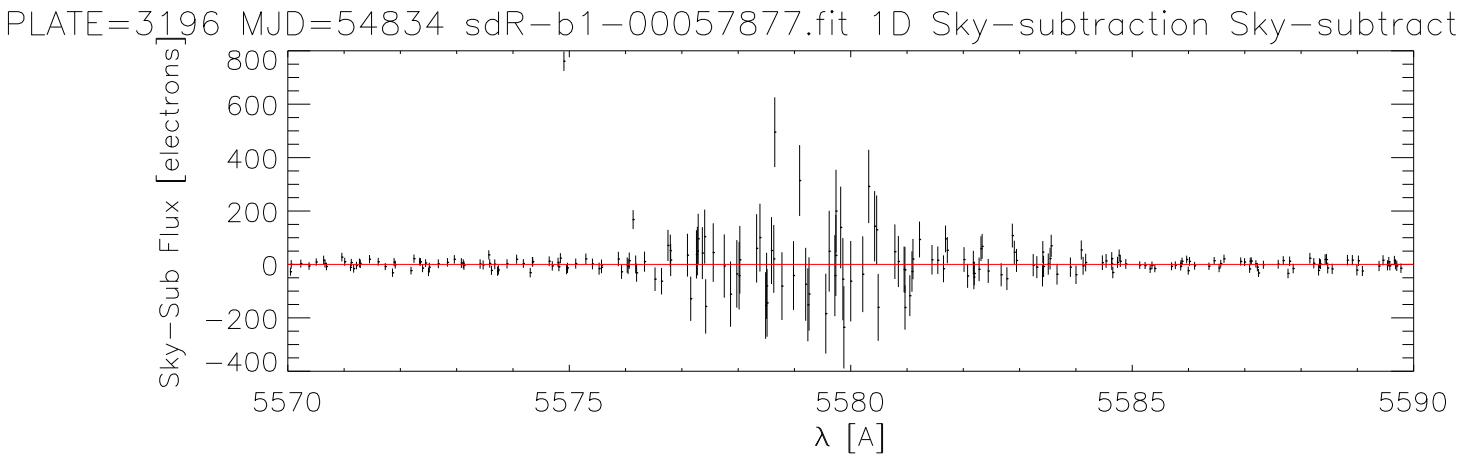

sky shift, pixels
0.70
0.65
0.60
0.55
0.50
0.45
3500
4000
4500
5000
5500
6000
6500

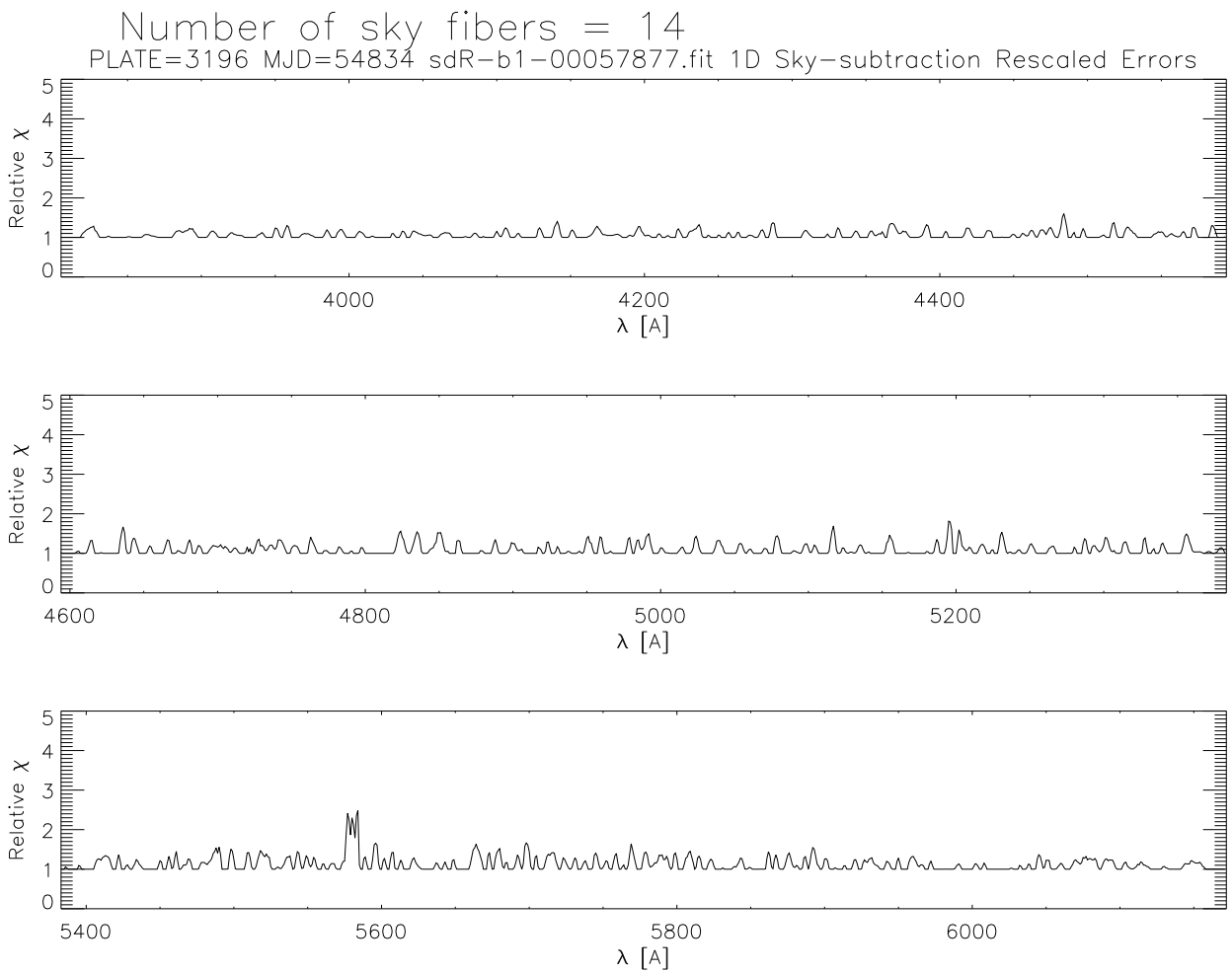
es= −0.0001

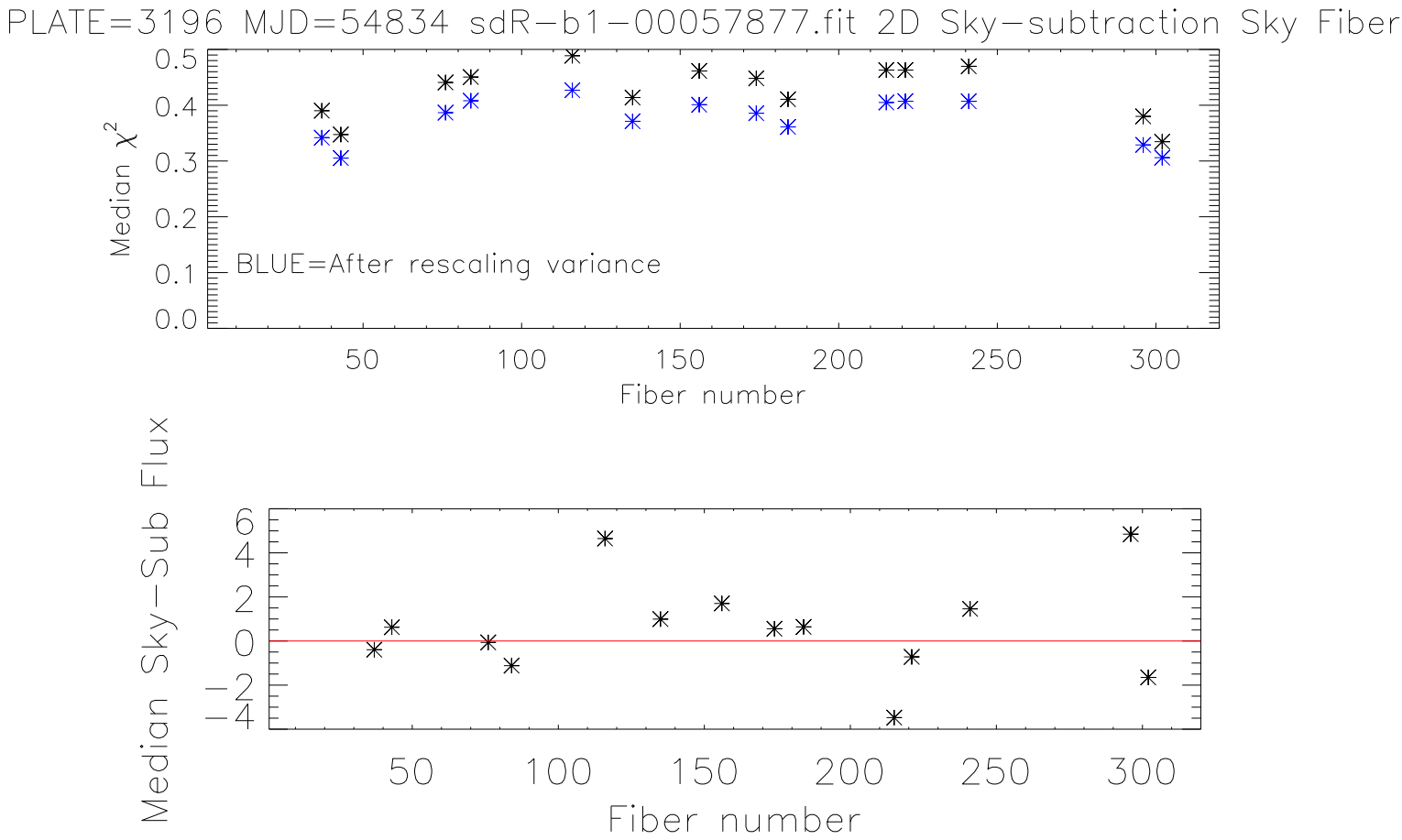

PLATE=3196 MJD=54834 Smooth superflat for sdR−b1−00057877.fit
1.5
1.0
0.5
0.0
1.03
1.02
1.01
1.00
0.99
4000
4500
5000
5500
6000
Wavelength (Å)

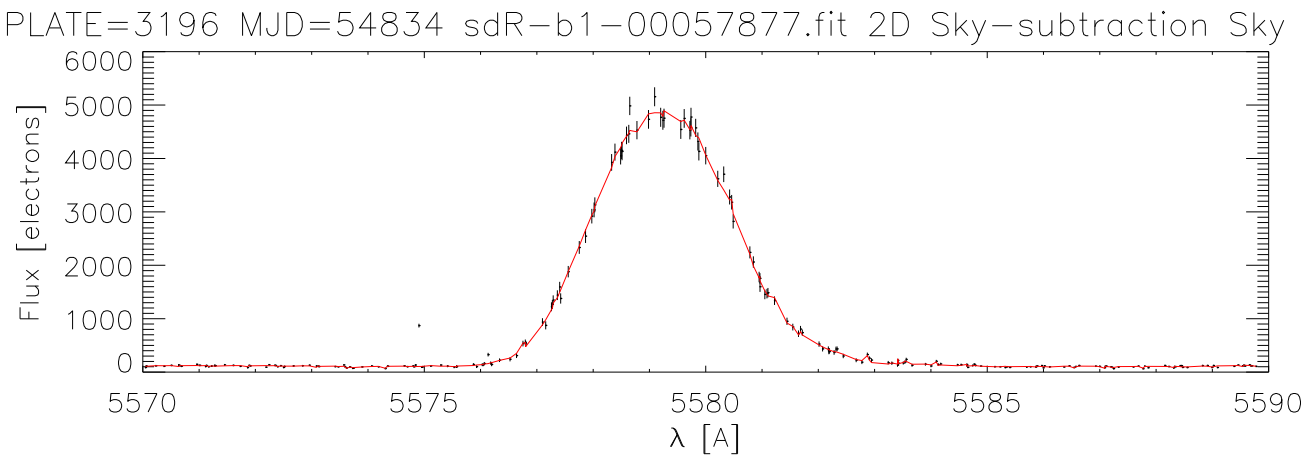

PLATE=3196 MJD=54834 sdR-b1-00057877.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
50
100
150
200
250
300
Fiber number

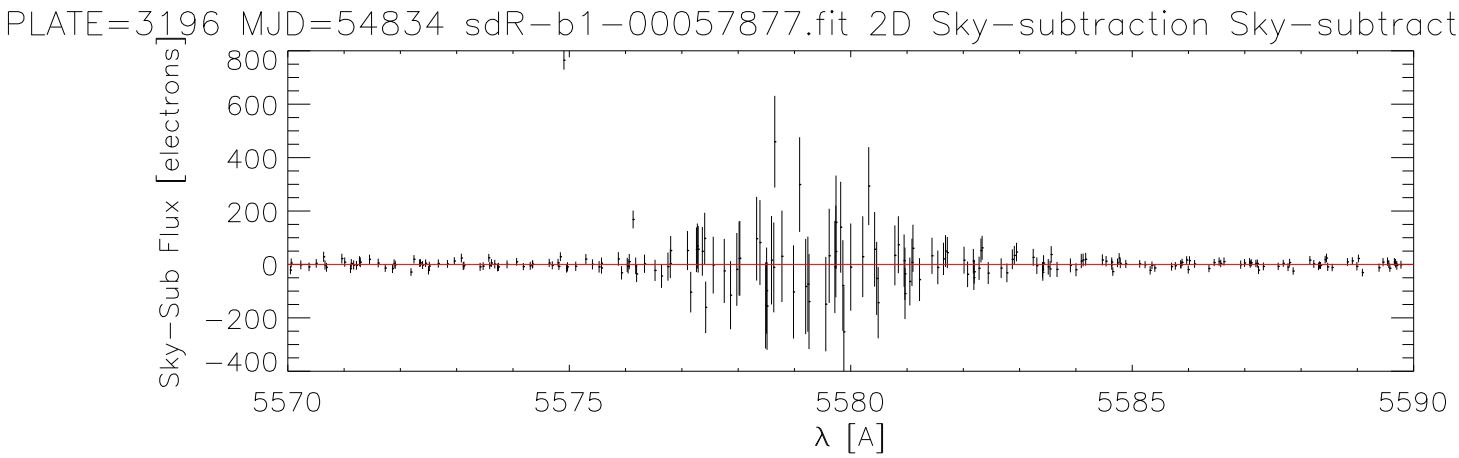

PLATE=3196 MJD=54834 sdR-b1-00057877.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

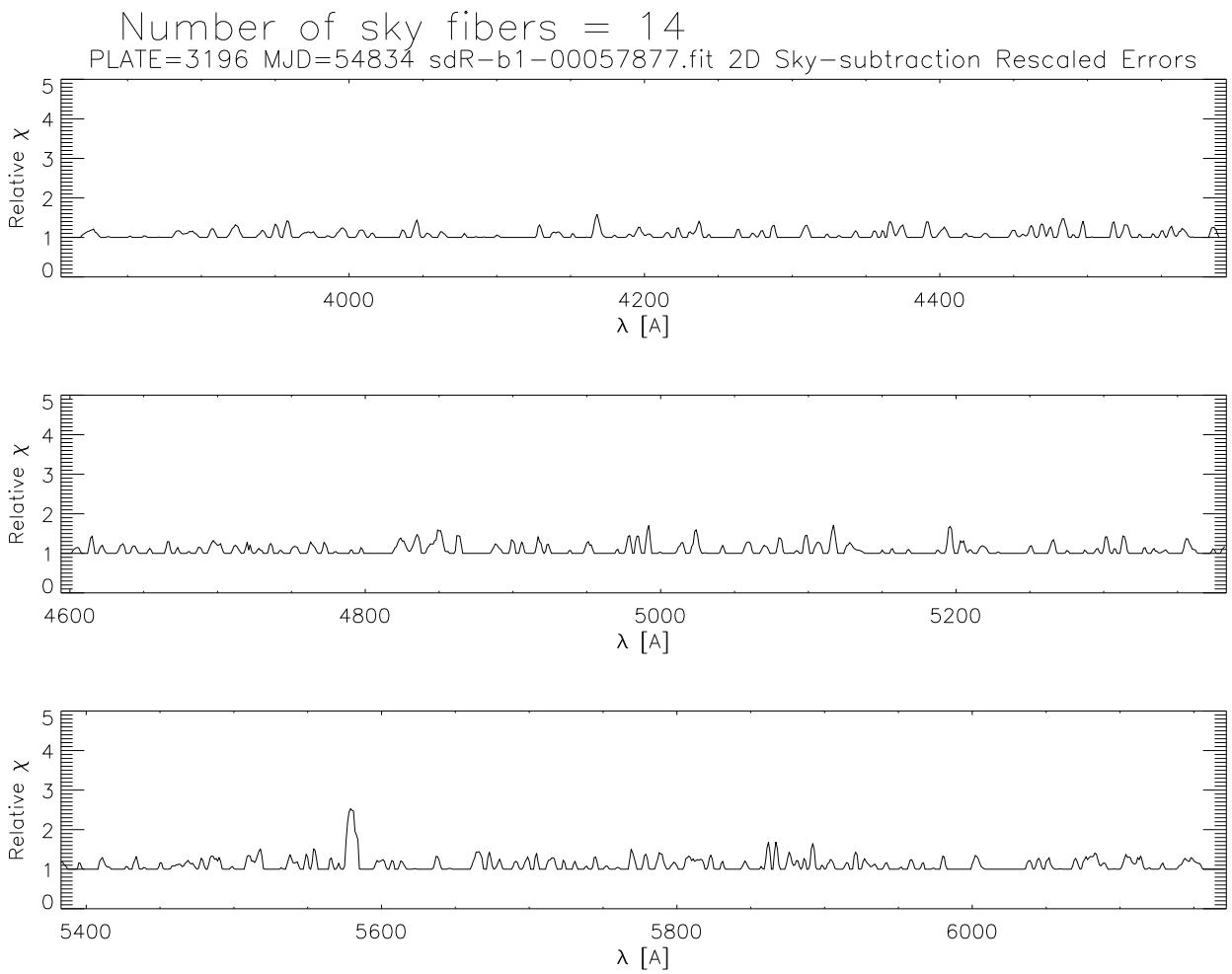

PLATE=3196 MJD=54834 sdR-b1-00057877.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

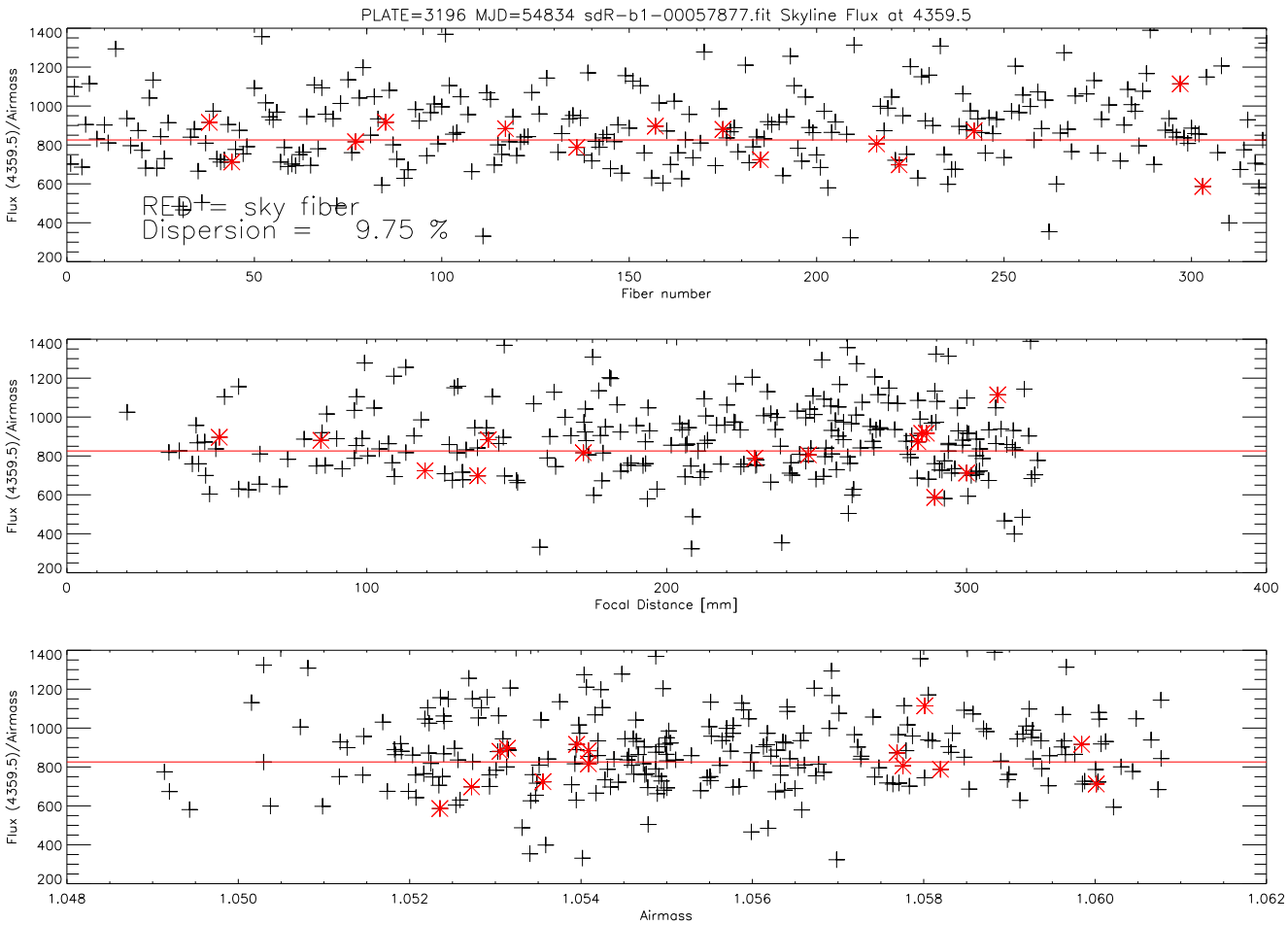

Number of sky fibers = 14
PLATE=3196 MJD=54834 sdR-b1-00057877.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

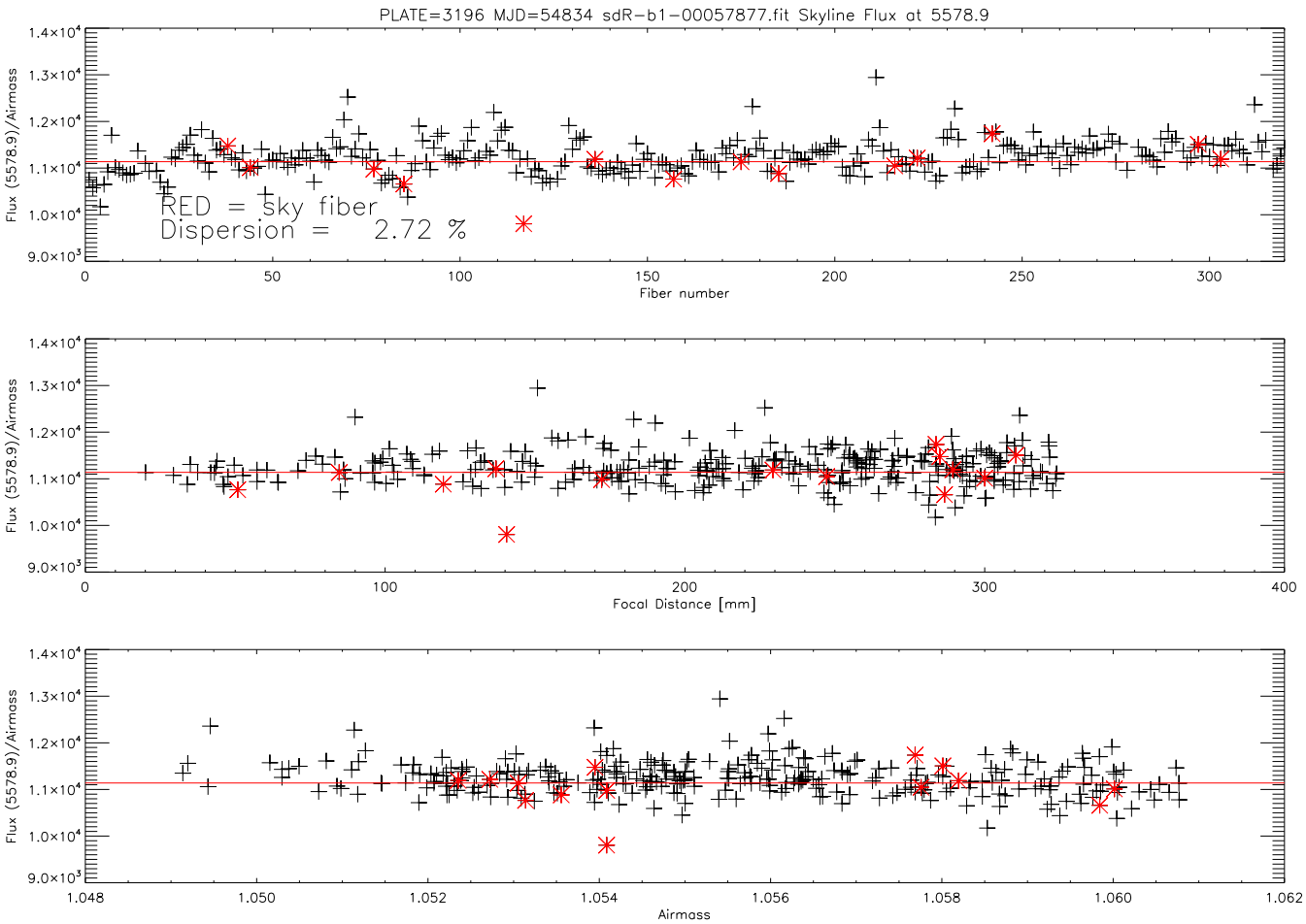

PLATE=3196 MJD=54834 sdR-b1-00057877.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

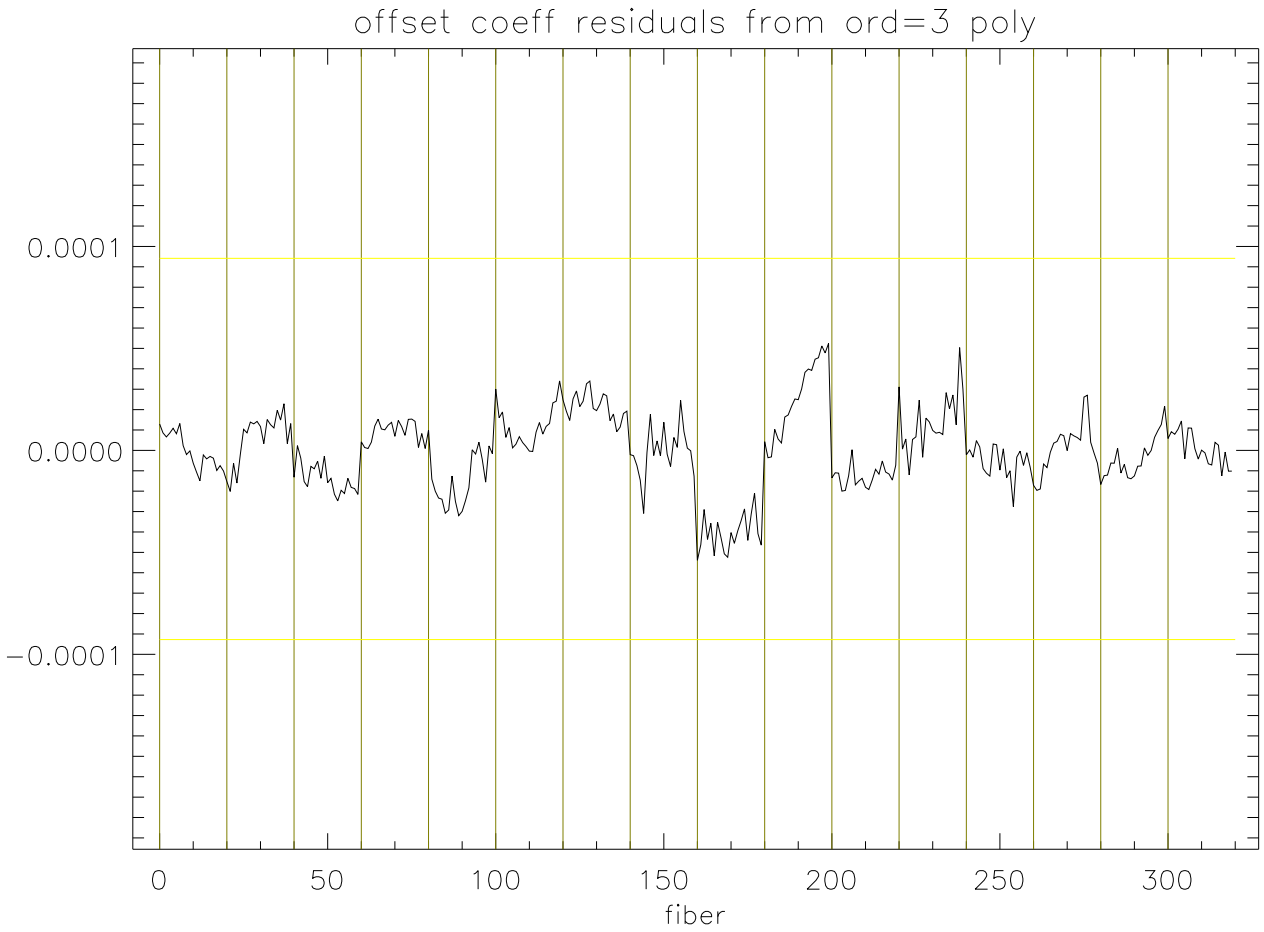

PLATE=3196 MJD=54834 sdR-b1-00057877.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

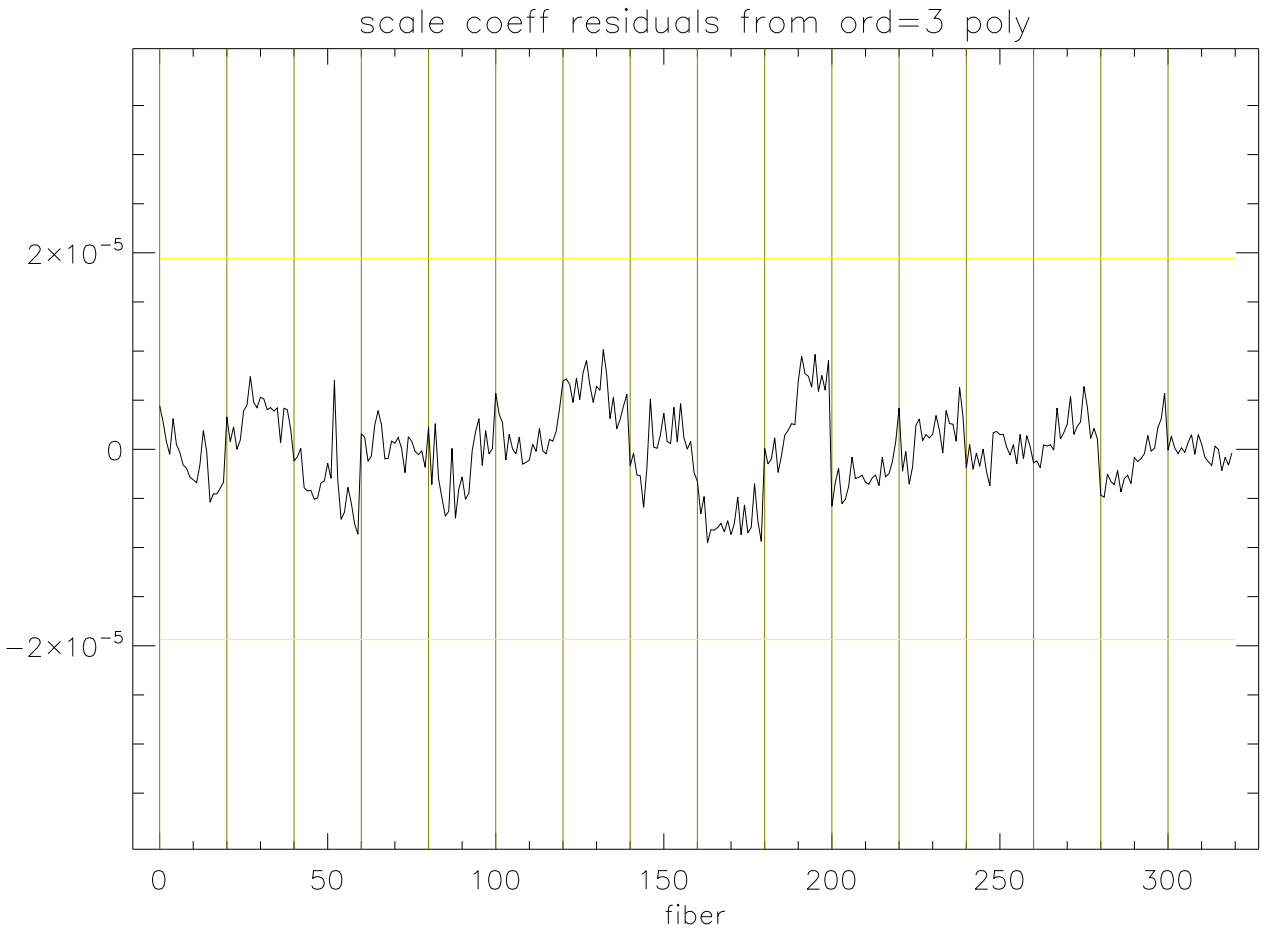

PLATE=3196 MJD=54834 sdR-b1-00057877.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

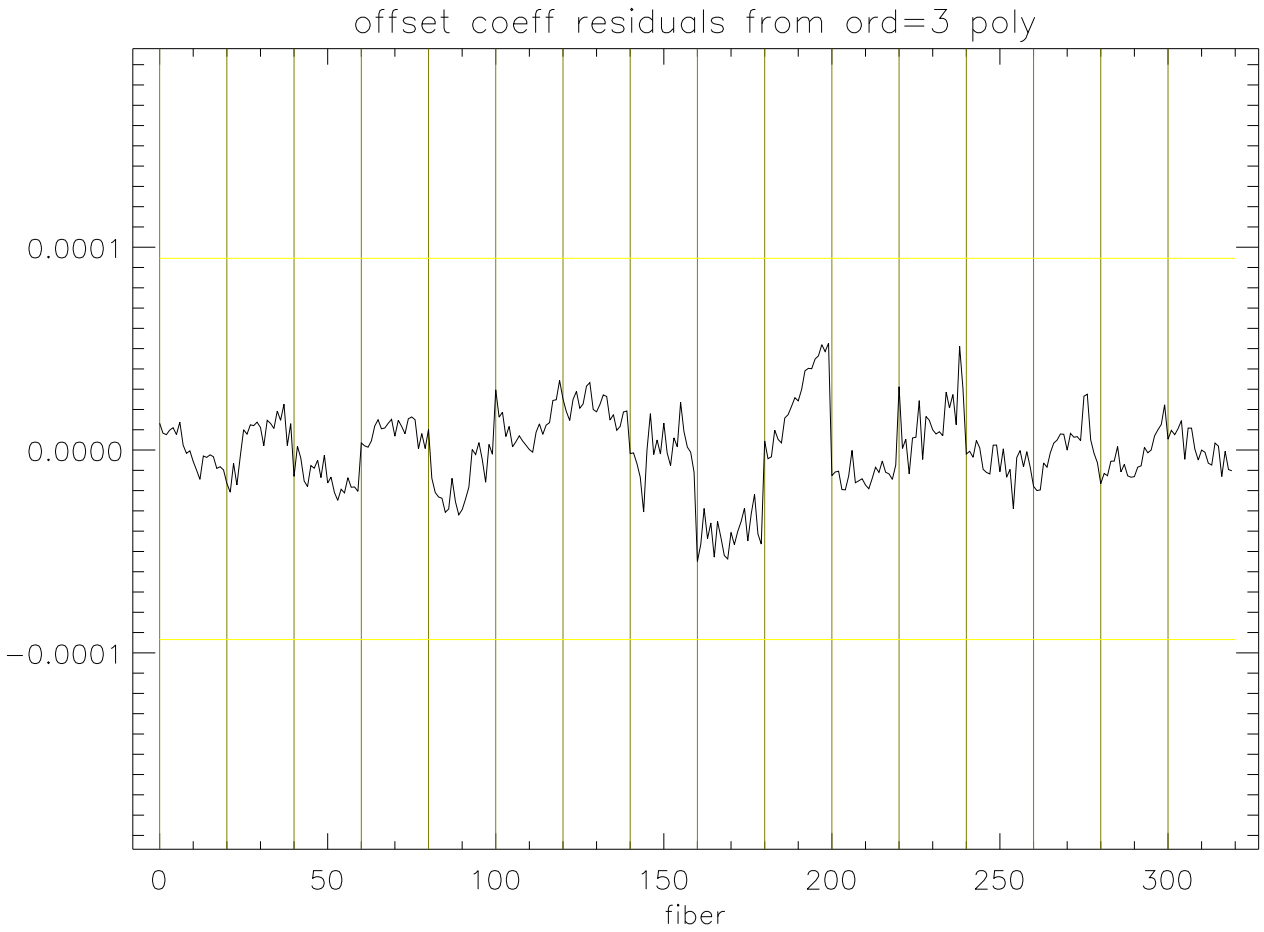

Number of sky fibers = 14
PLATE=3196 MJD=54834 sdR-b1-00057877.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

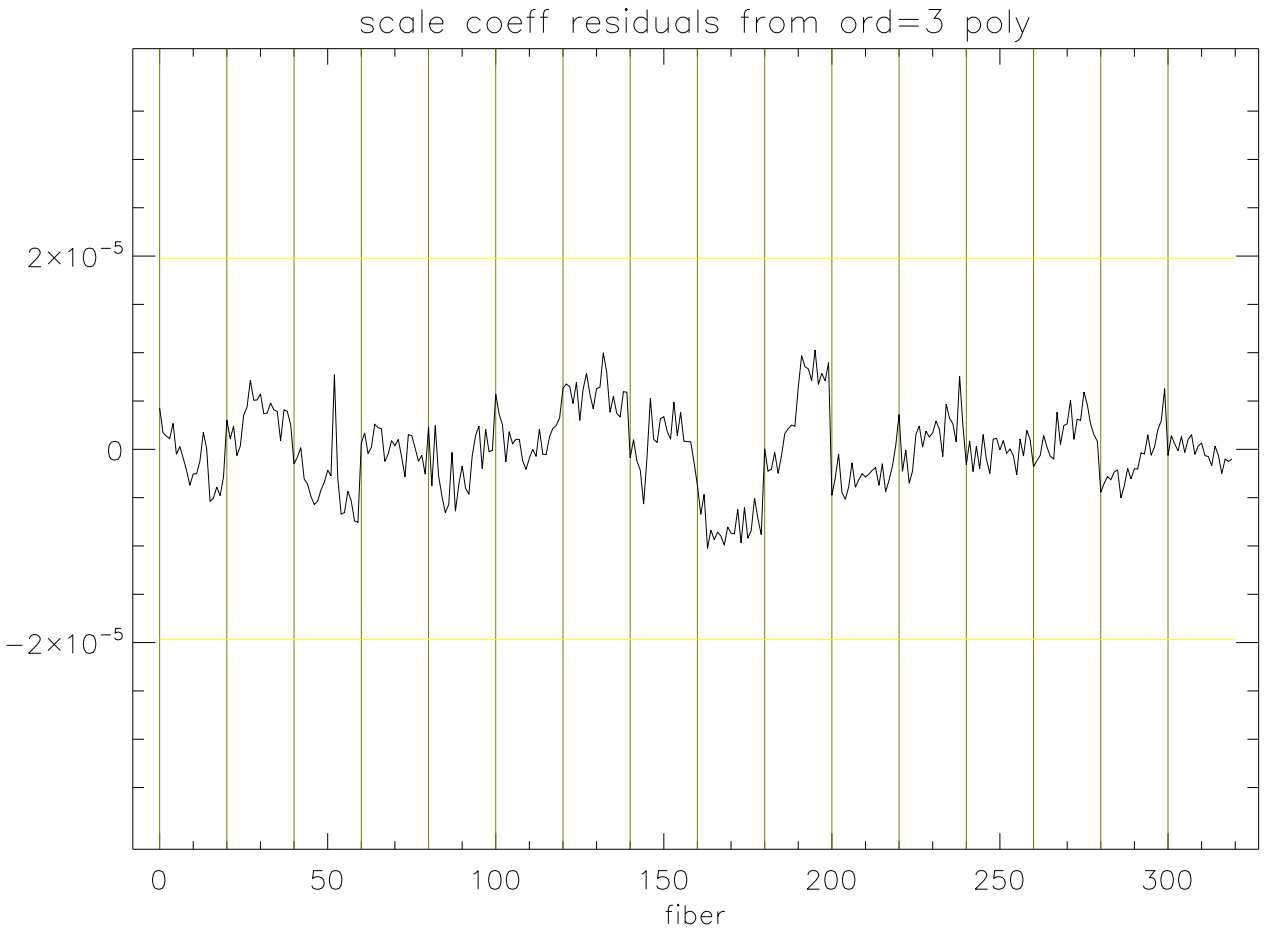

PLATE=3196 MJD=54834 sdR-b1-00057877.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED+= sky fiber
Dispersion = 9.75 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

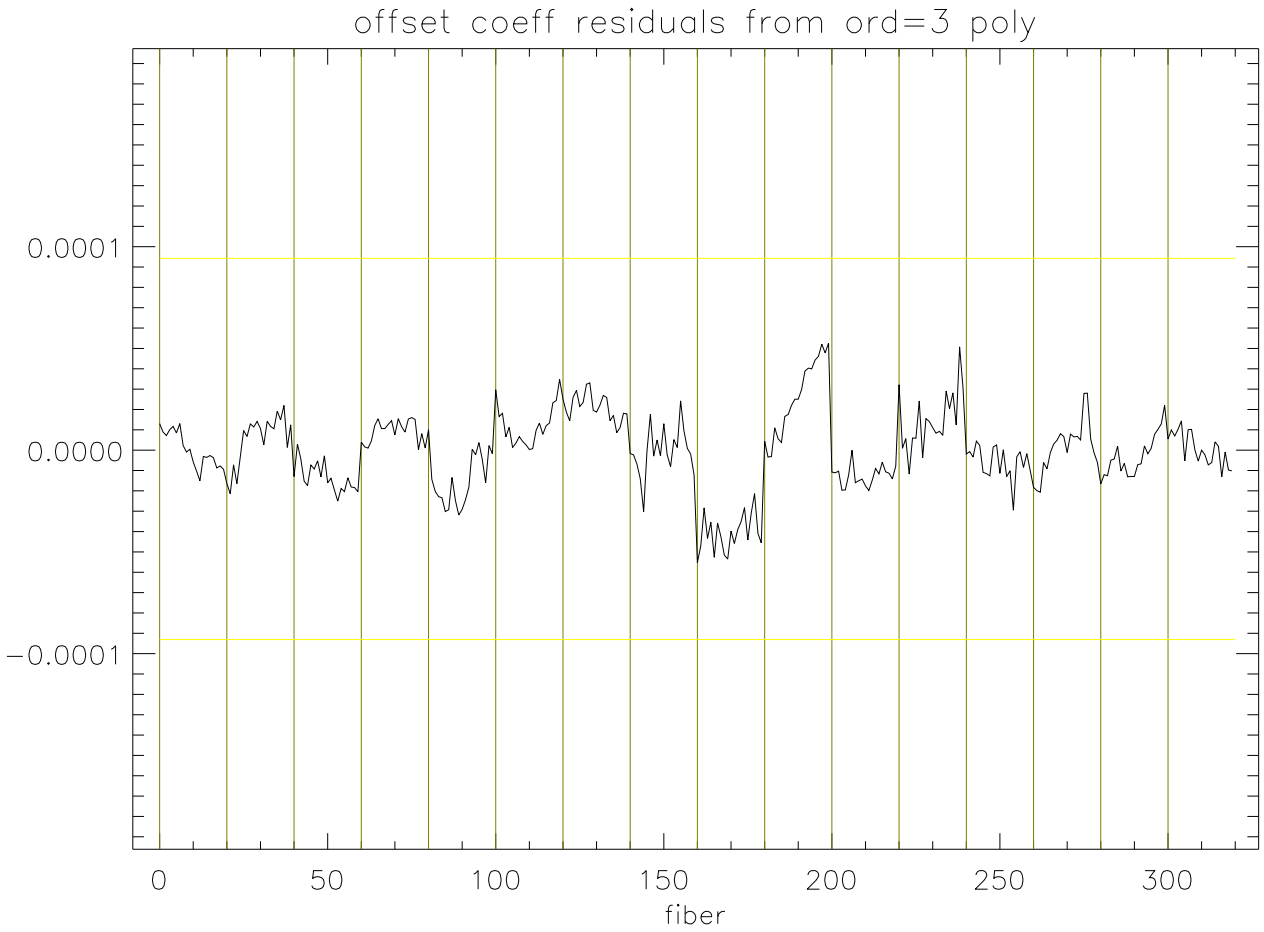

PLATE=3196 MJD=54834 sdR-b1-00057877.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.72 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

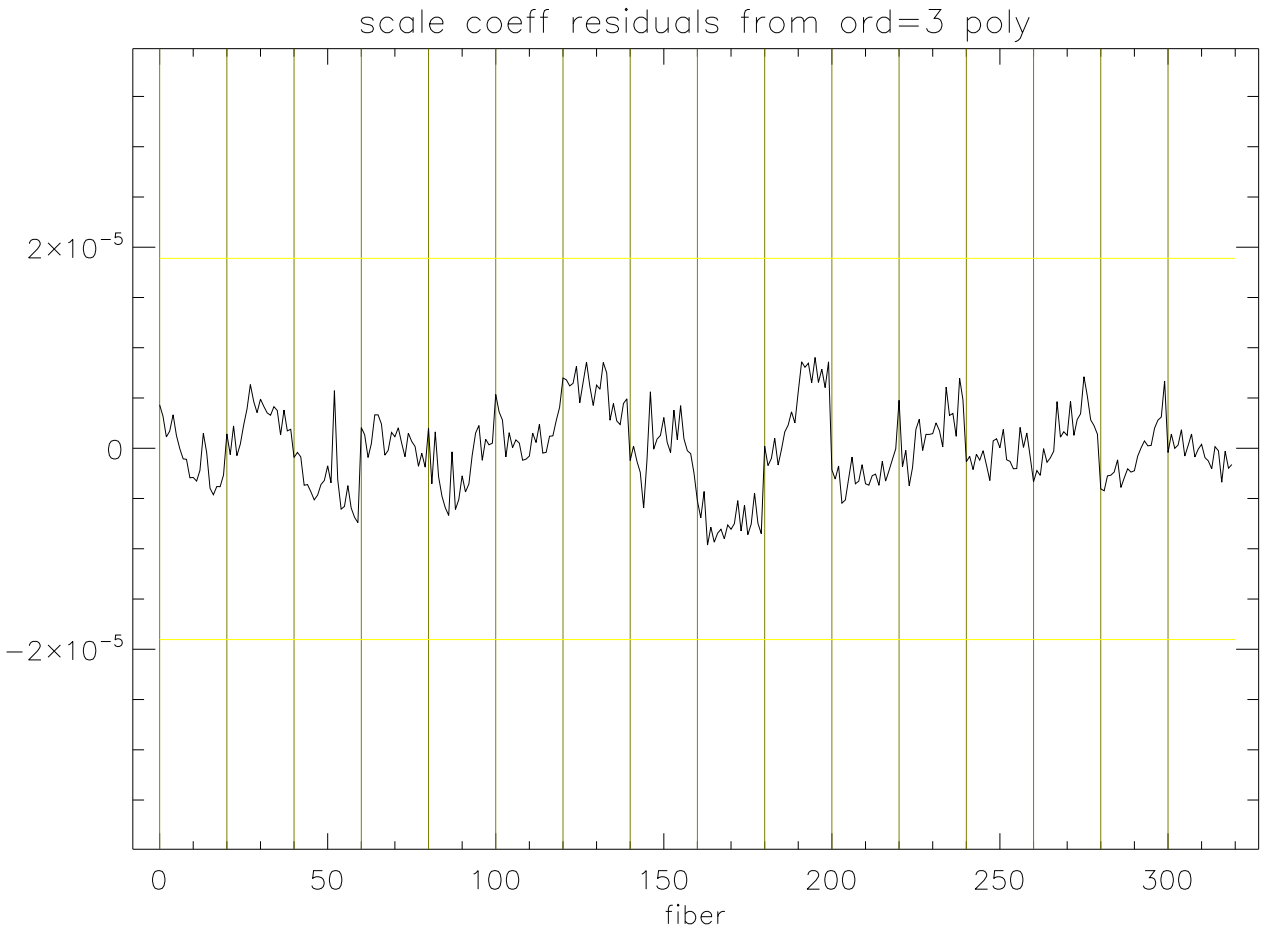

offset coeff residuals from ord=3 poly
0.0001
0.0000
−0.0001
0
50
100
150
200
250
300
fiber

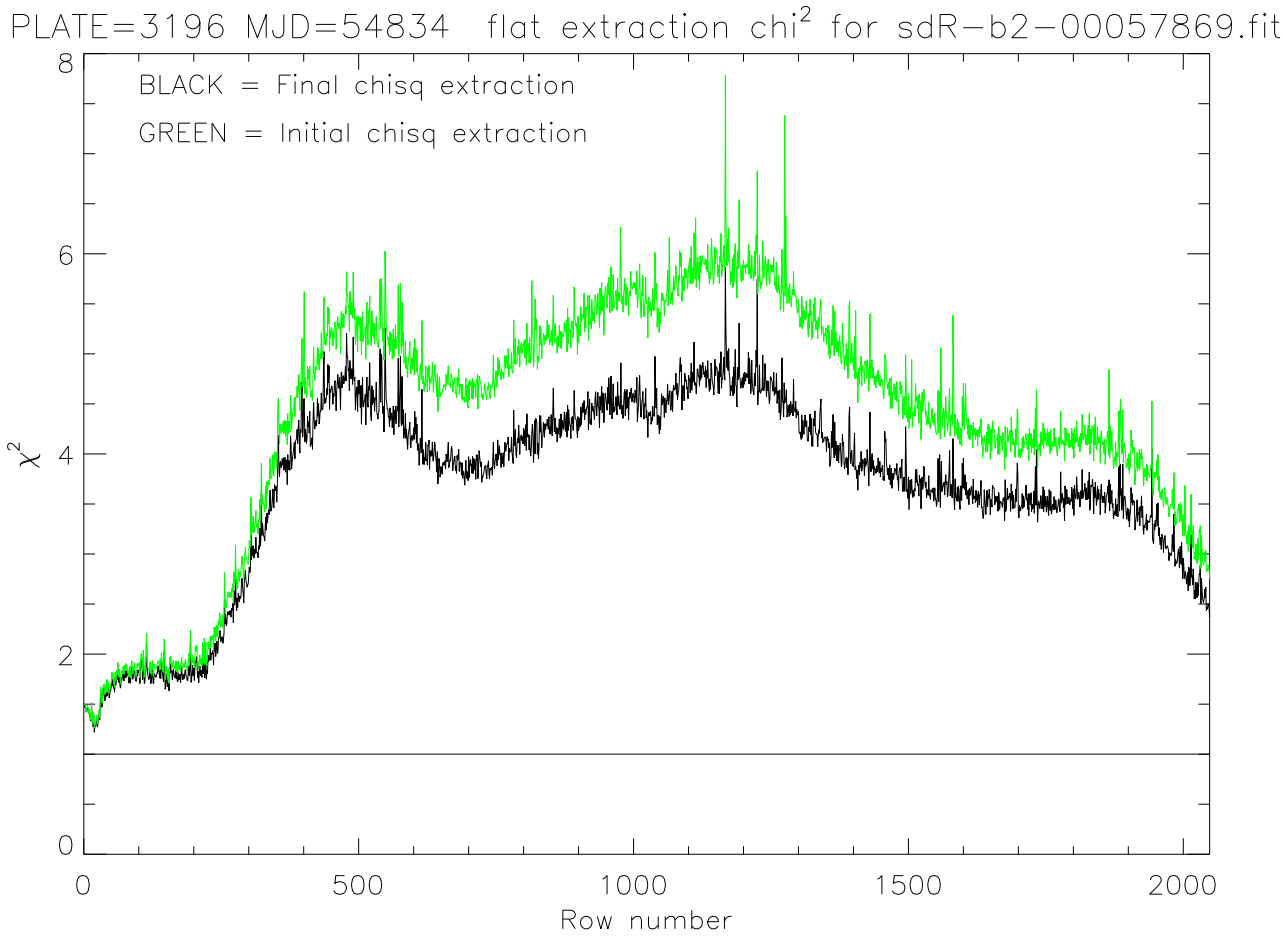

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

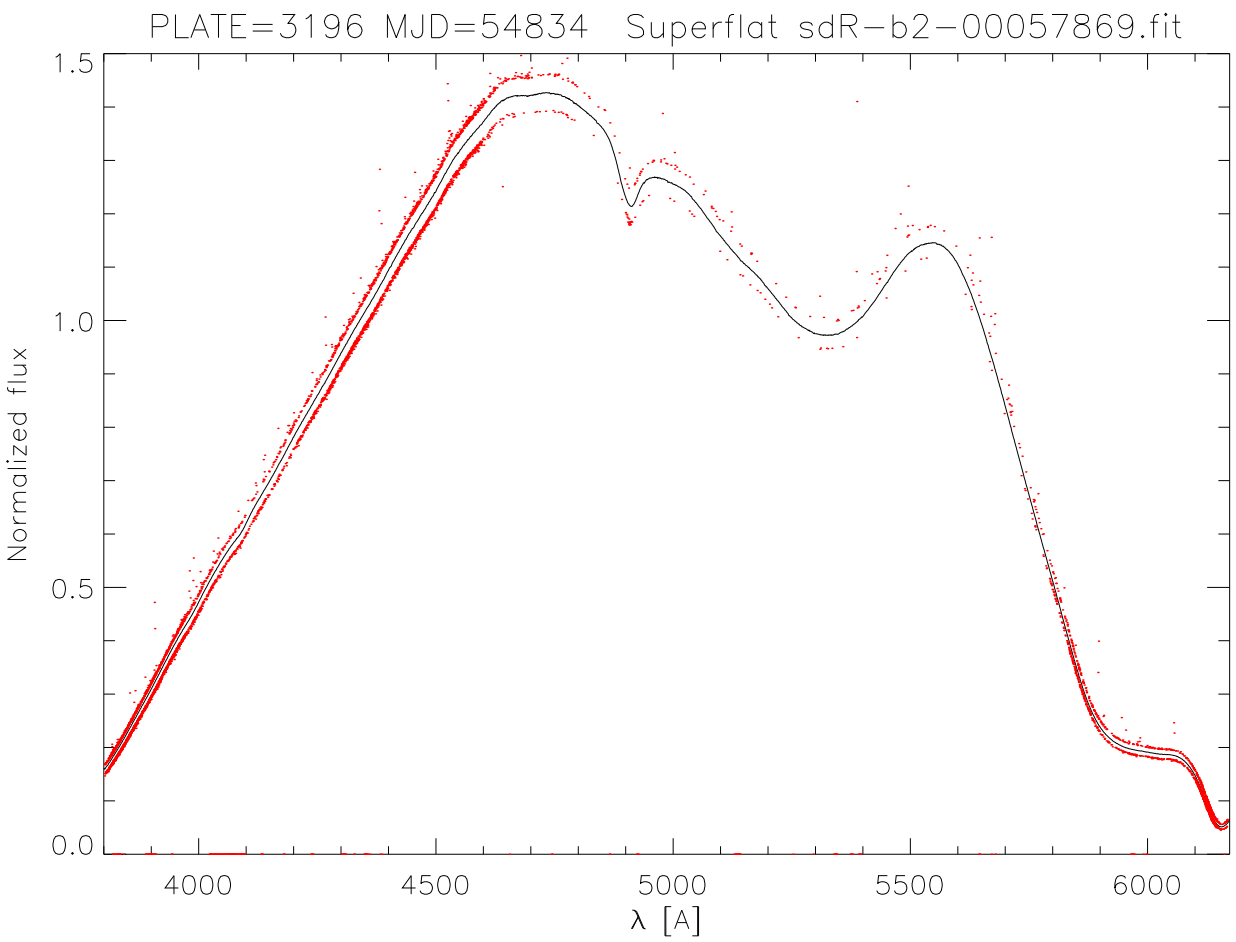

offset coeff residuals from ord=3 poly
0.0001
0.0000
−0.0001
0
50
100
150
200
250
300
fiber

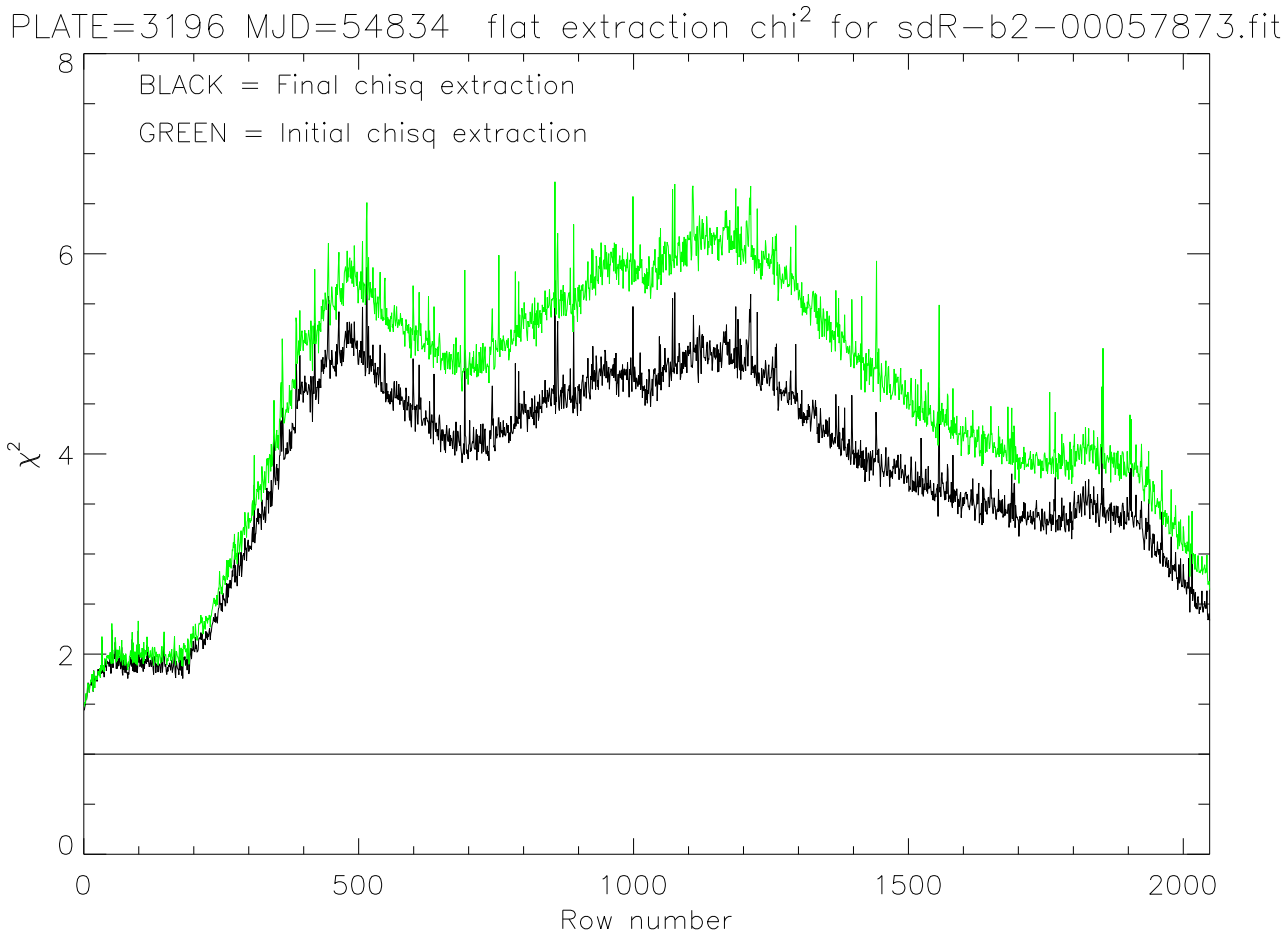

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

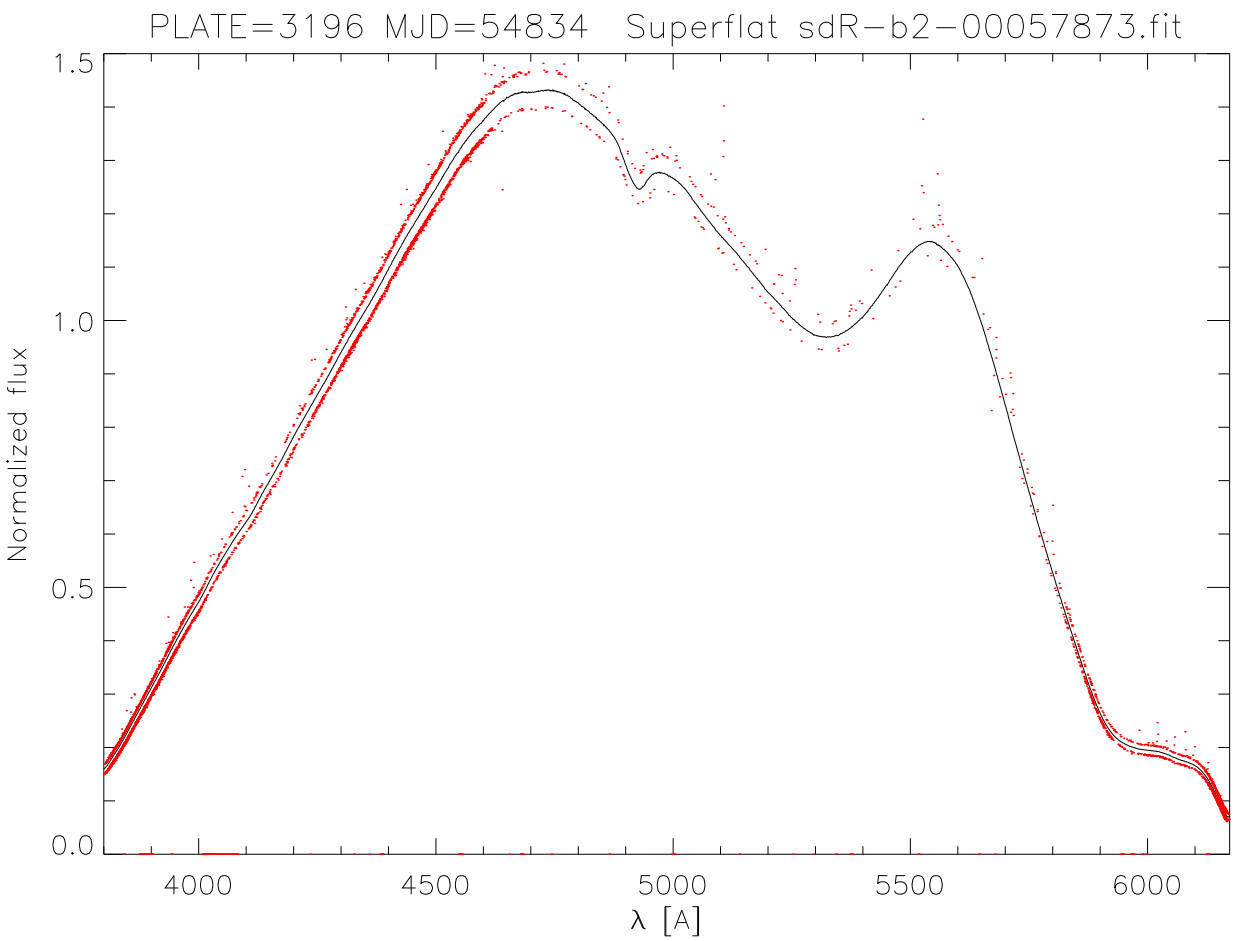

offset coeff residuals from ord=3 poly
0.0001
0.0000
−0.0001
0
50
100
150
200
250
300
fiber

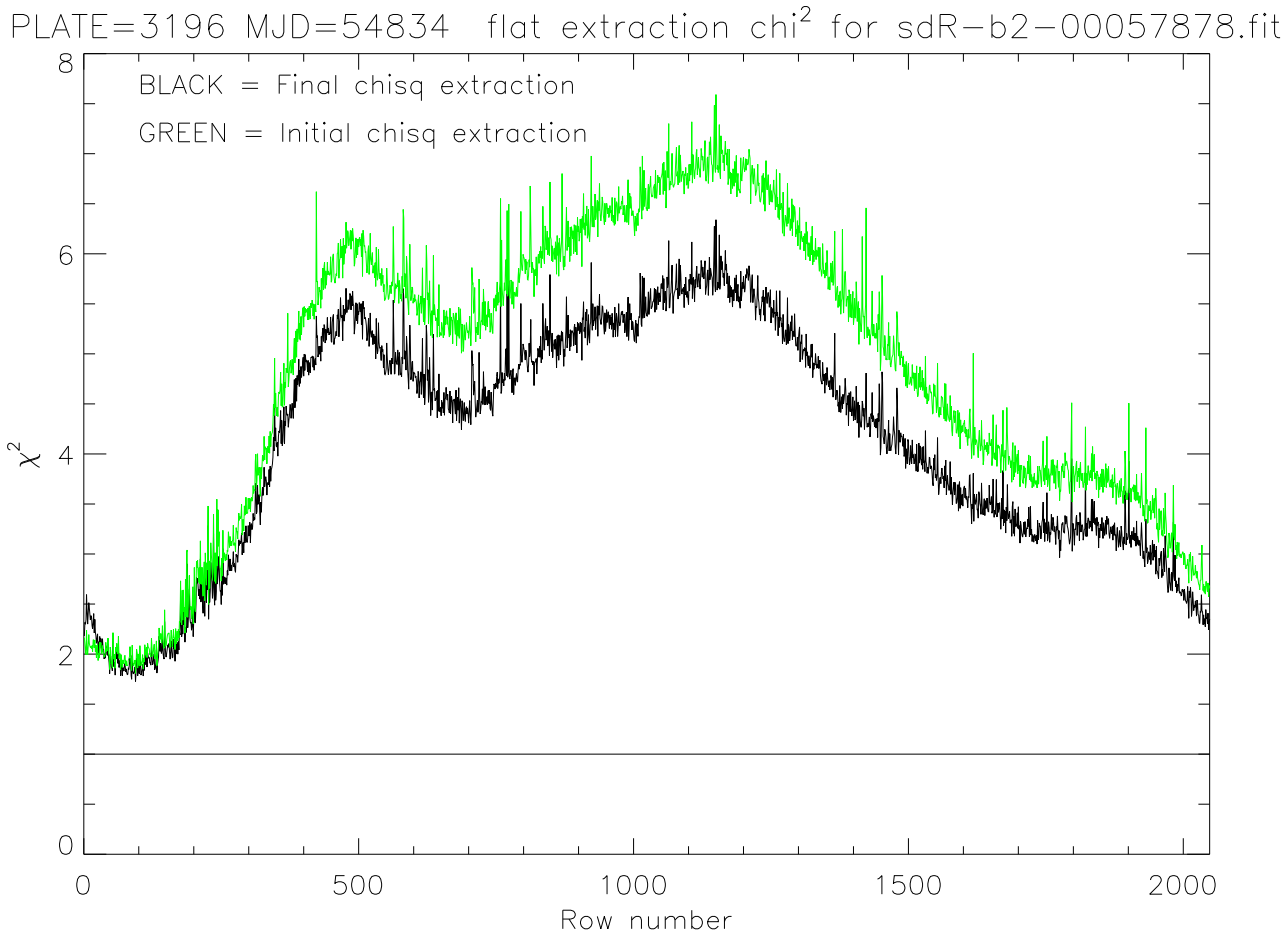

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

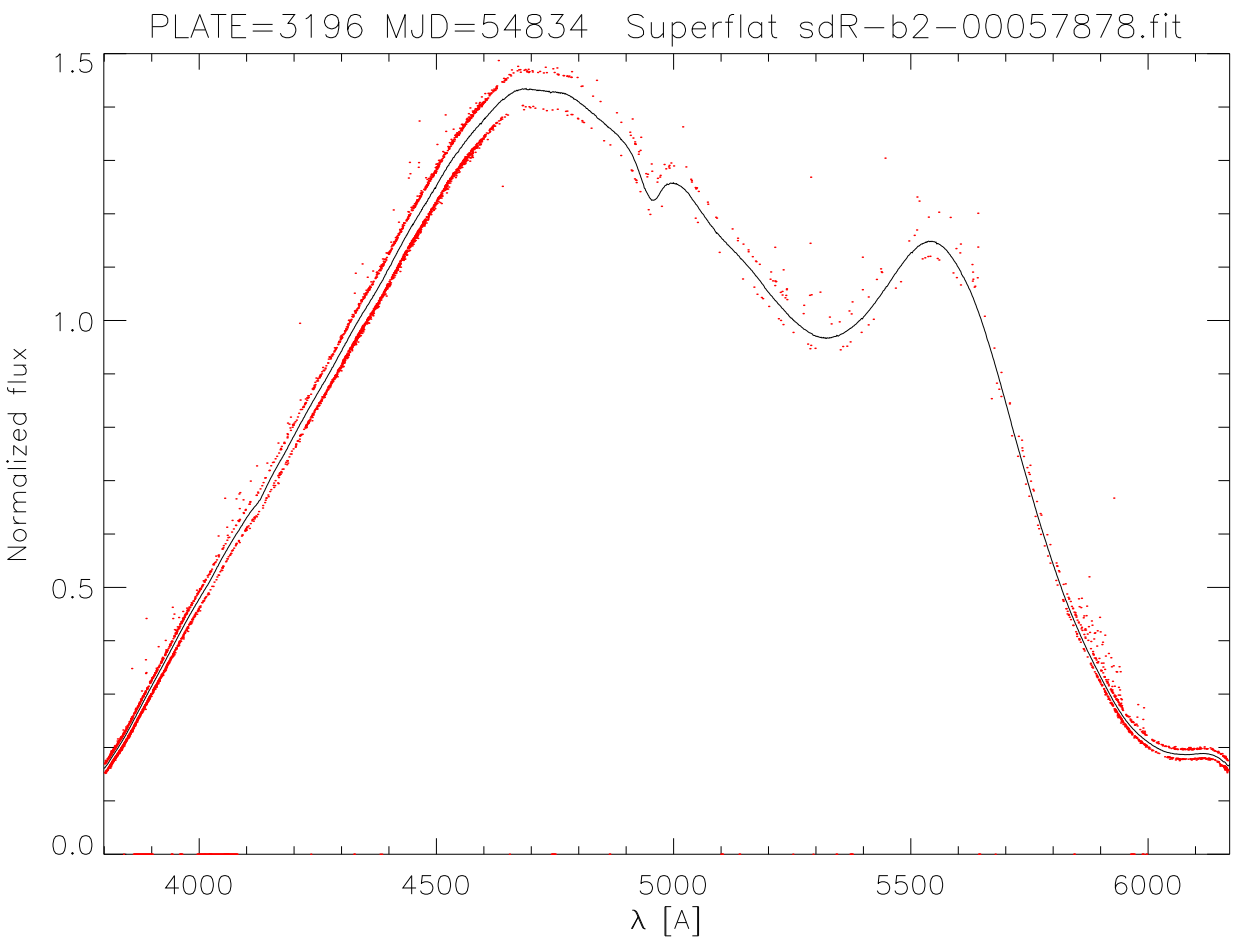

PLATE=3196 MJD=54834 flat extraction chi^2 for sdR−b2−00057869.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

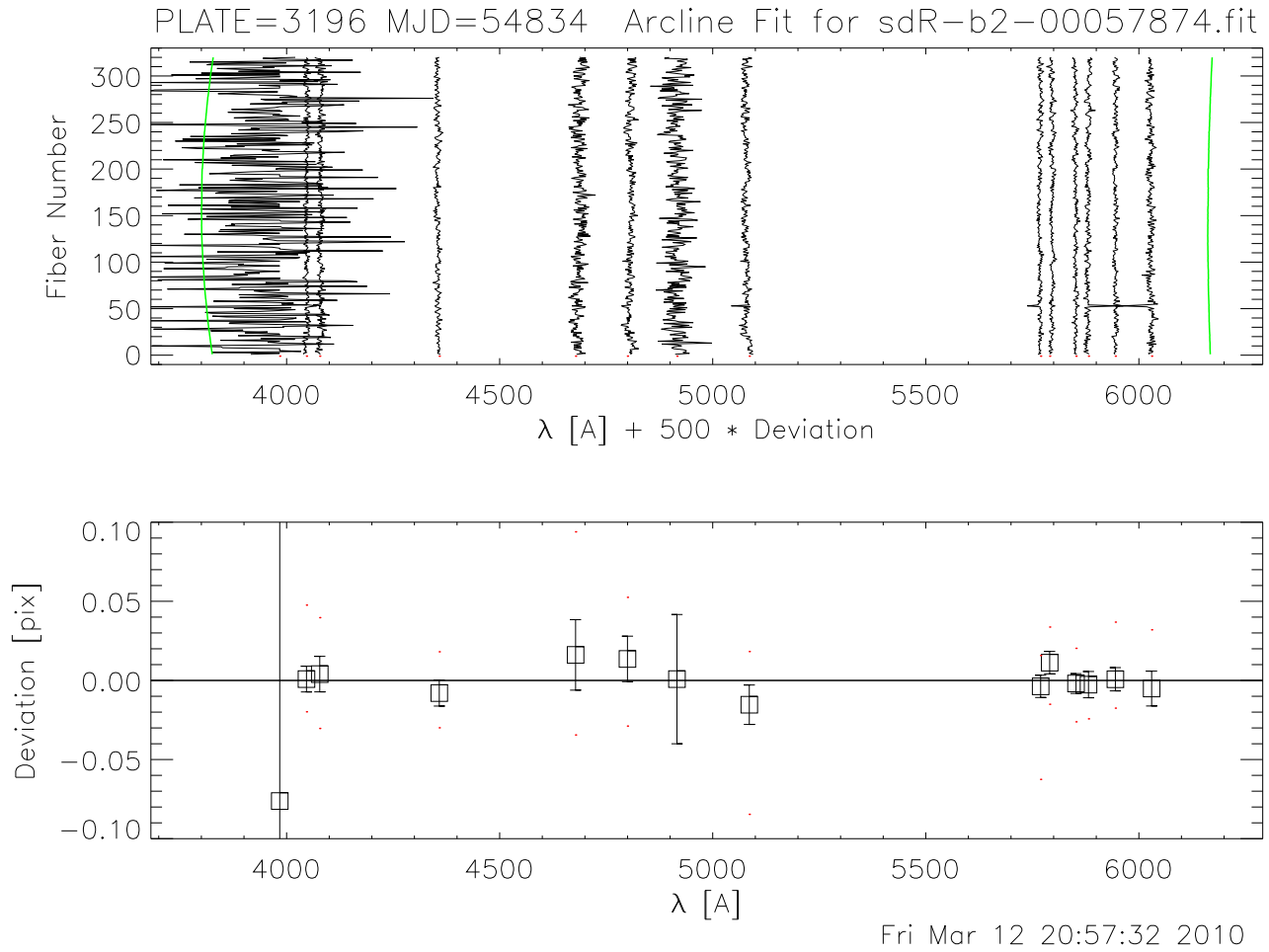

PLATE=3196 MJD=54834 Superflat sdR-b2-00057869.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

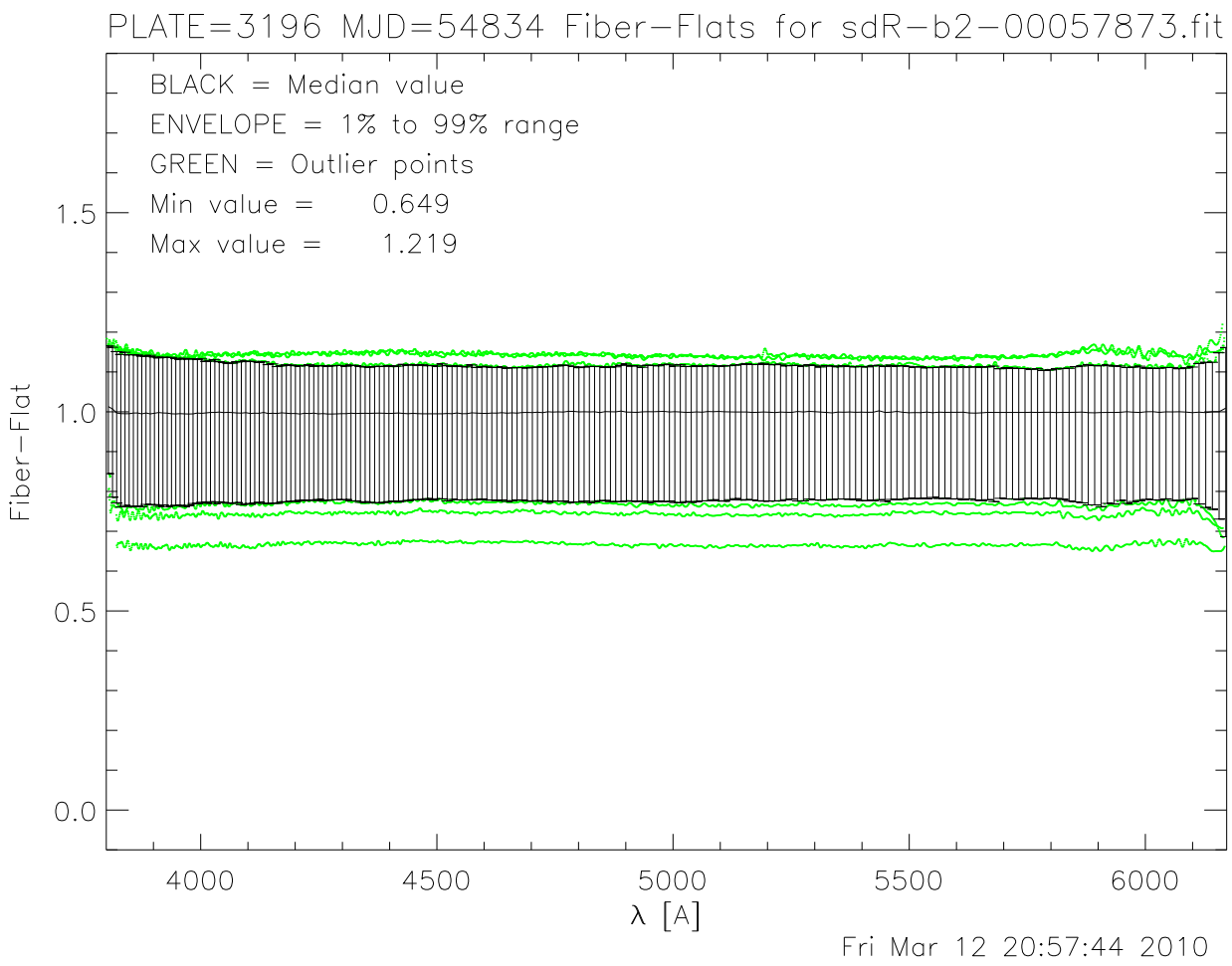

PLATE=3196 MJD=54834 flat extraction chi^2 for sdR−b2−00057873.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

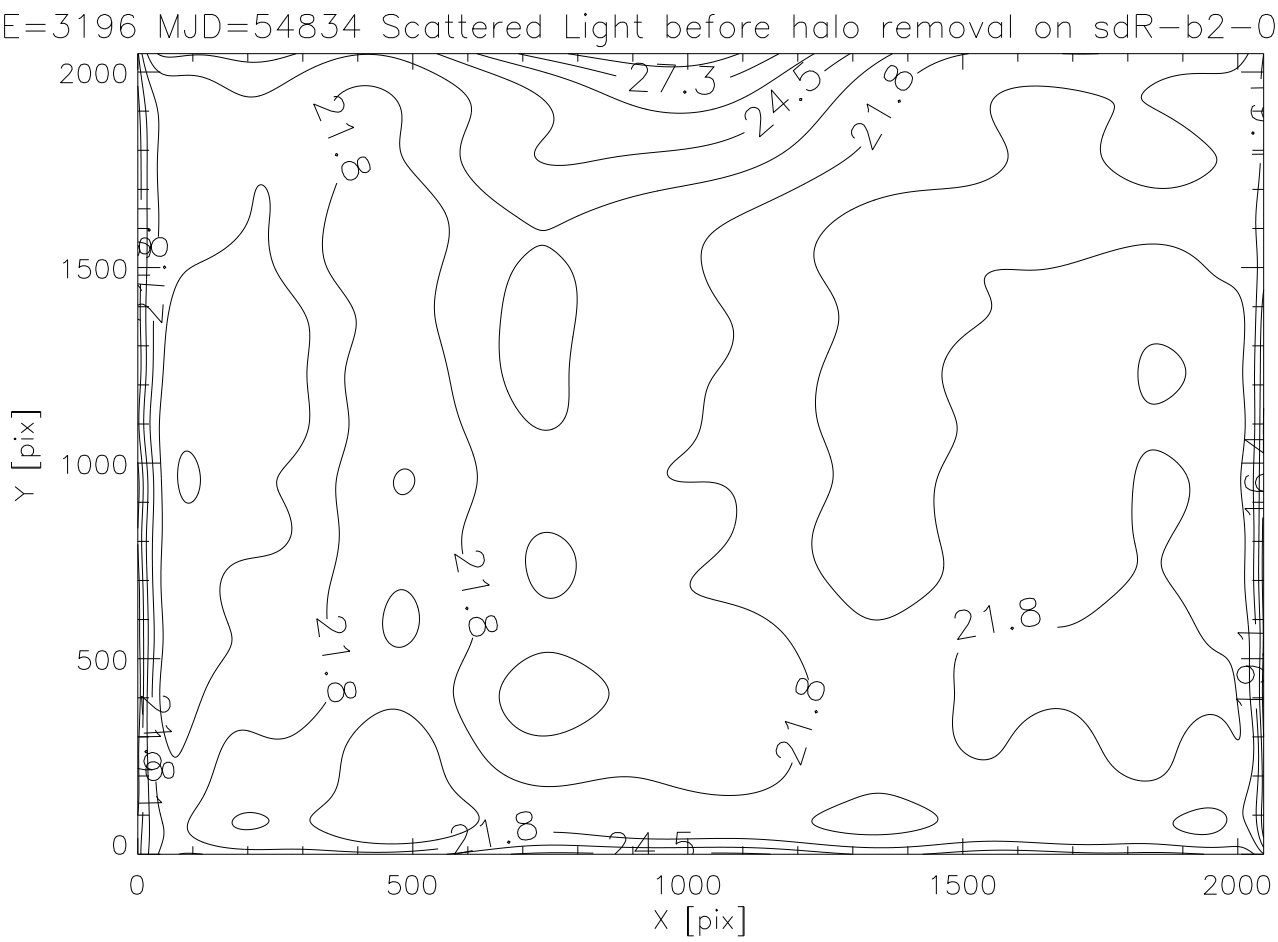

PLATE=3196 MJD=54834 Superflat sdR-b2-00057873.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

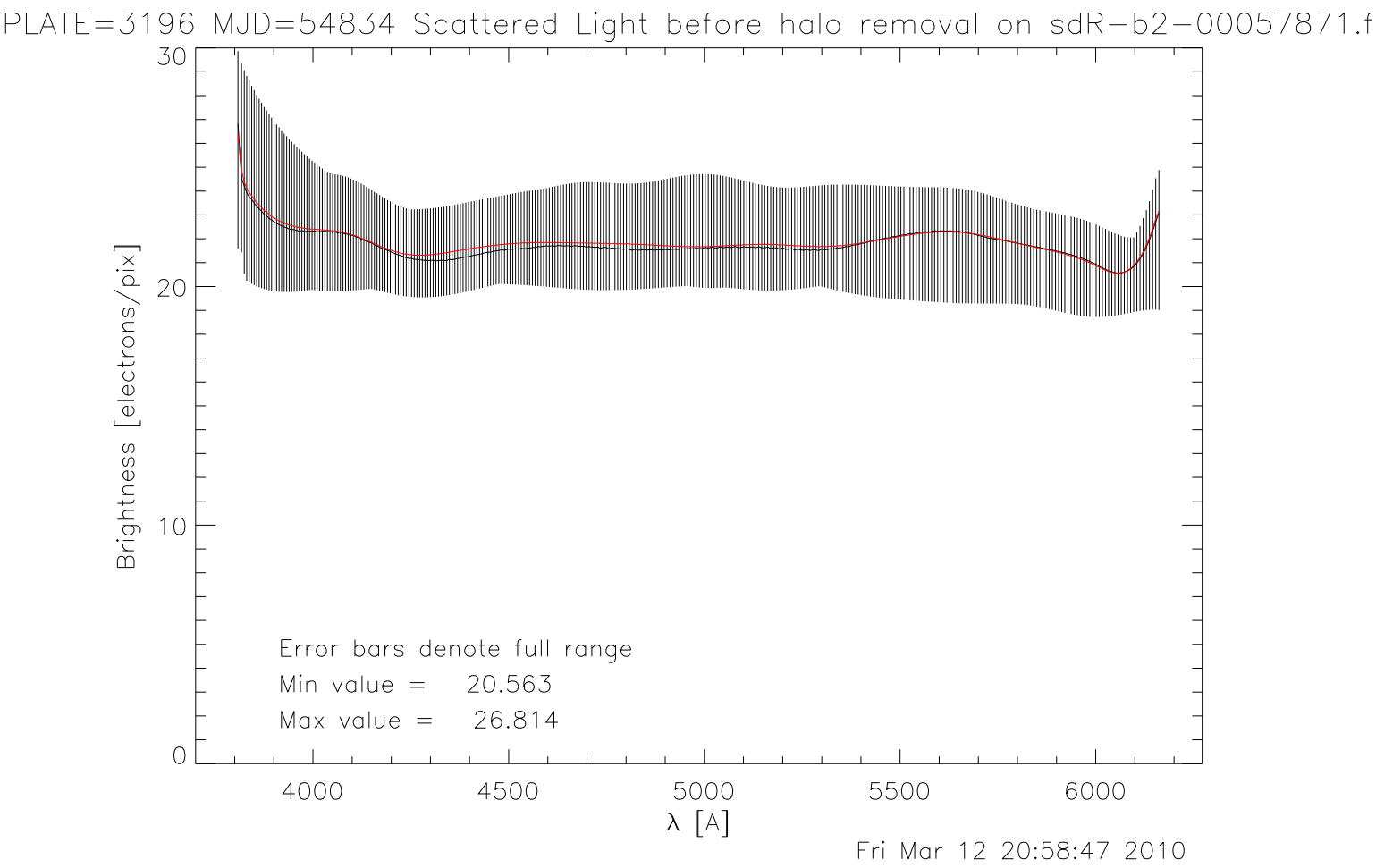

PLATE=3196 MJD=54834 flat extraction chi^2 for sdR−b2−00057878.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

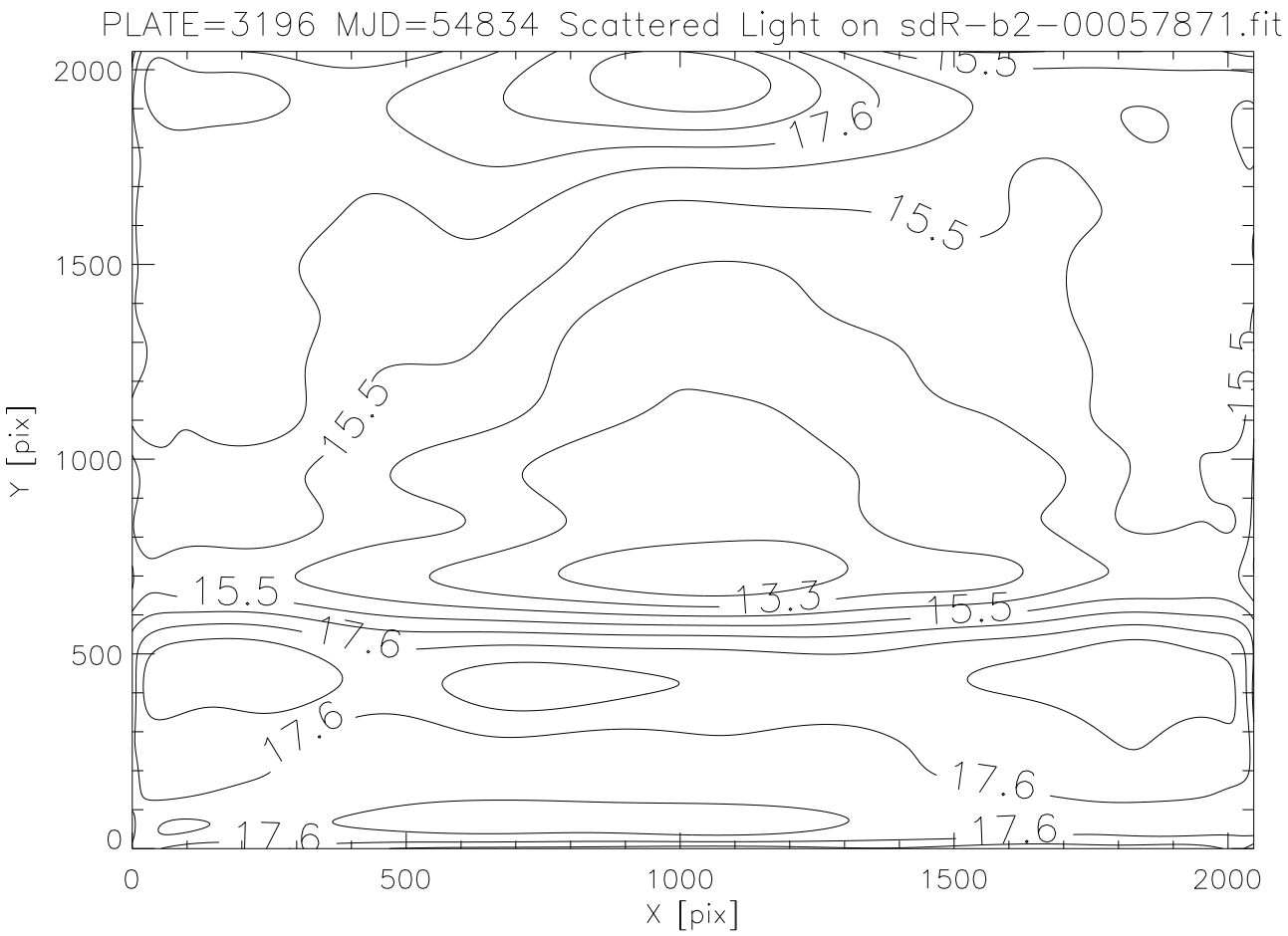

PLATE=3196 MJD=54834 Superflat sdR-b2-00057878.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

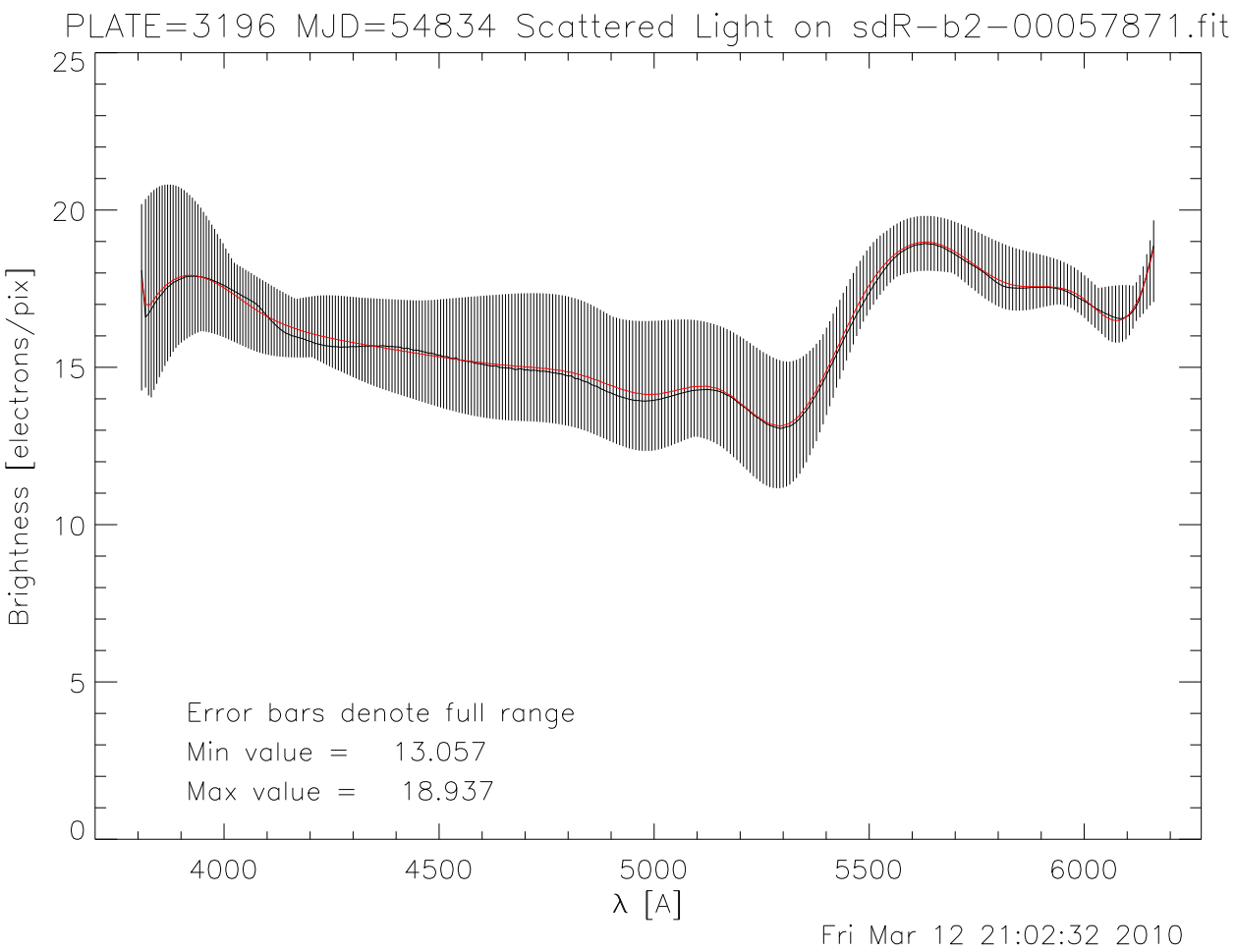

PLATE=3196 MJD=54834 Arcline Fit for sdR-b2-00057874.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Fri Mar 12 20:57:32 2010

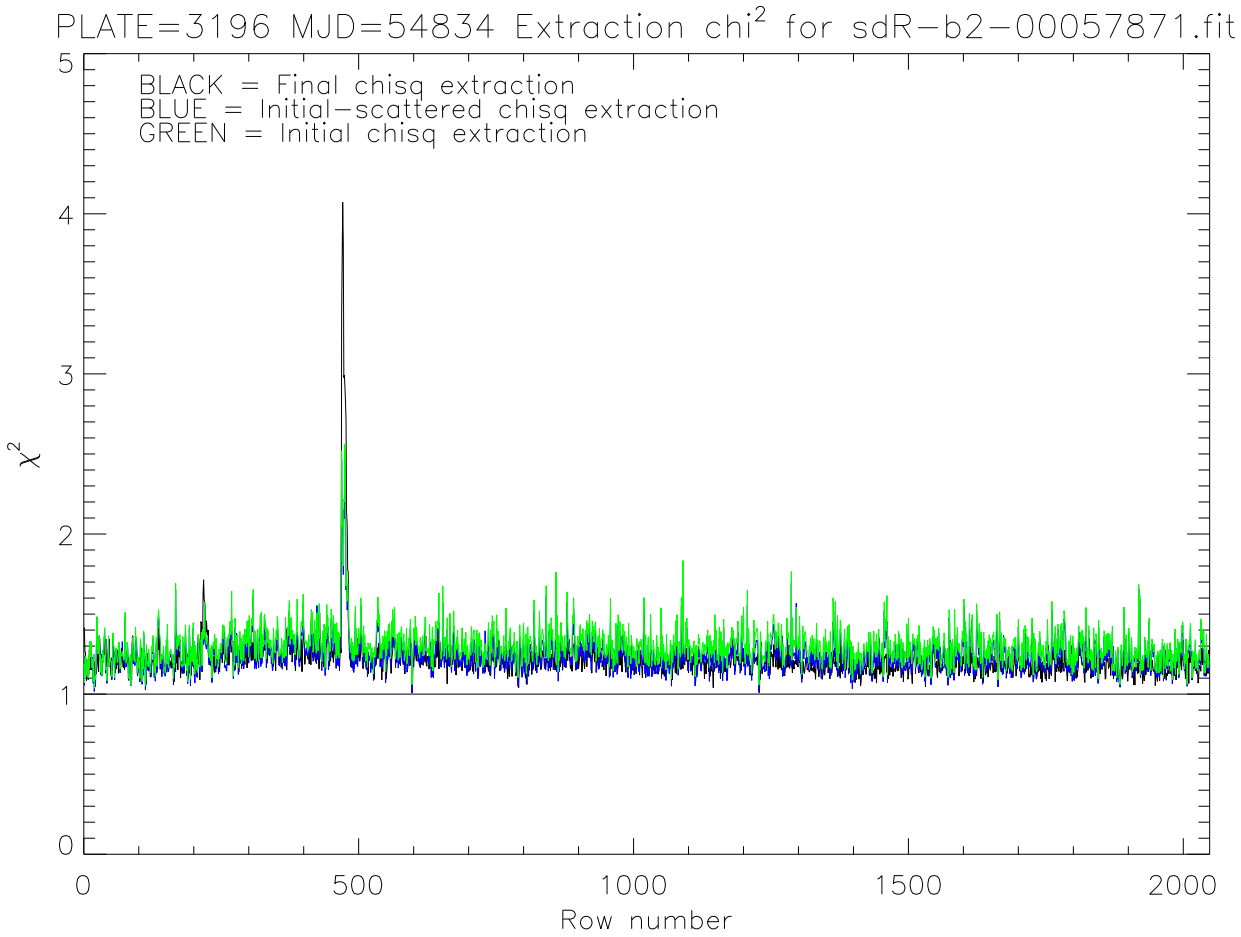

PLATE=3196 MJD=54834 Fiber-Flats for sdR-b2-00057873.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.649
Max value = 1.219
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Fri Mar 12 20:57:44 2010

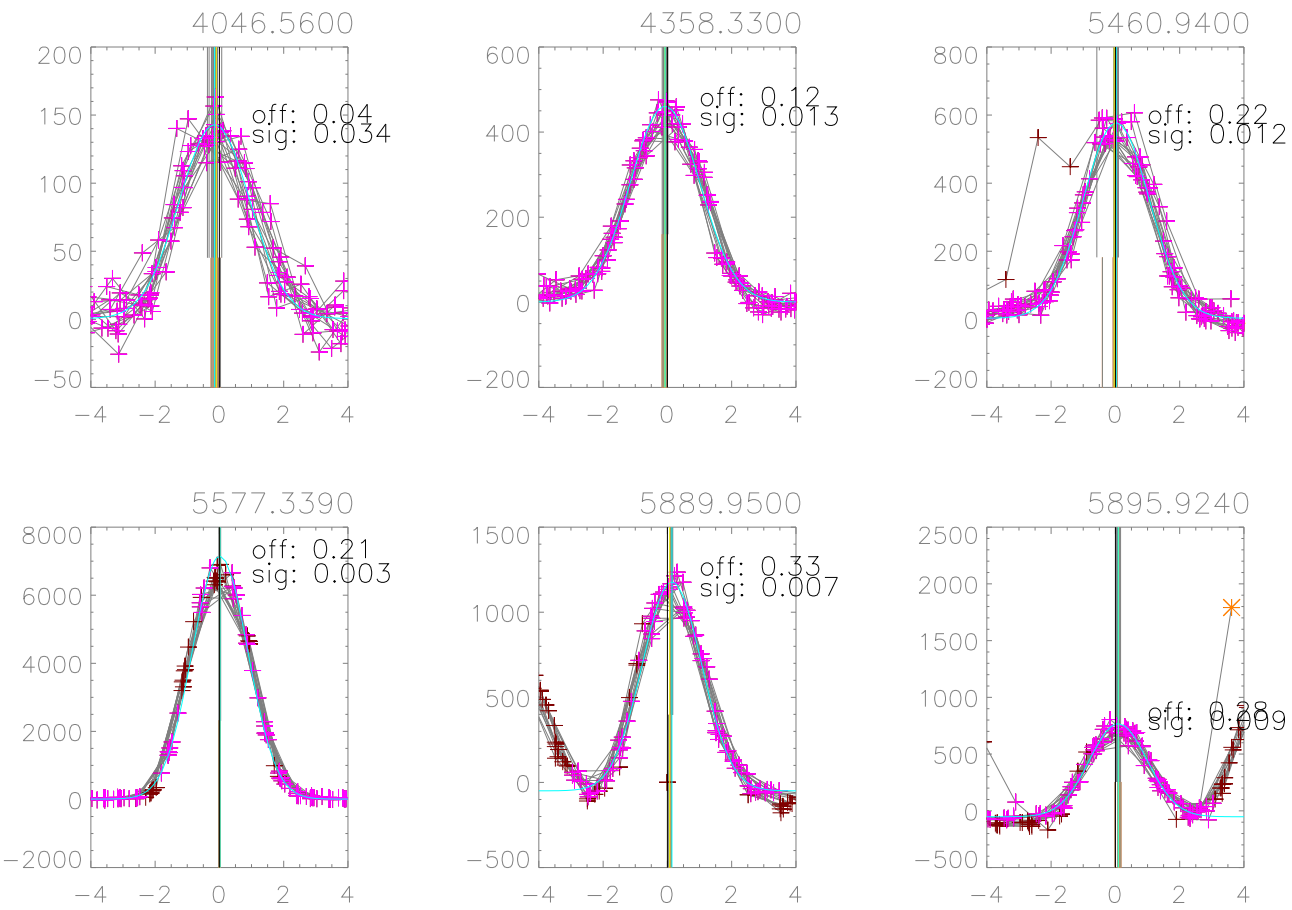

PLATE=3196 MJD=54834 Scattered Light before halo removal on sdR-b2-00057871.f
27.3
24.5
21.8
21.8
21.8

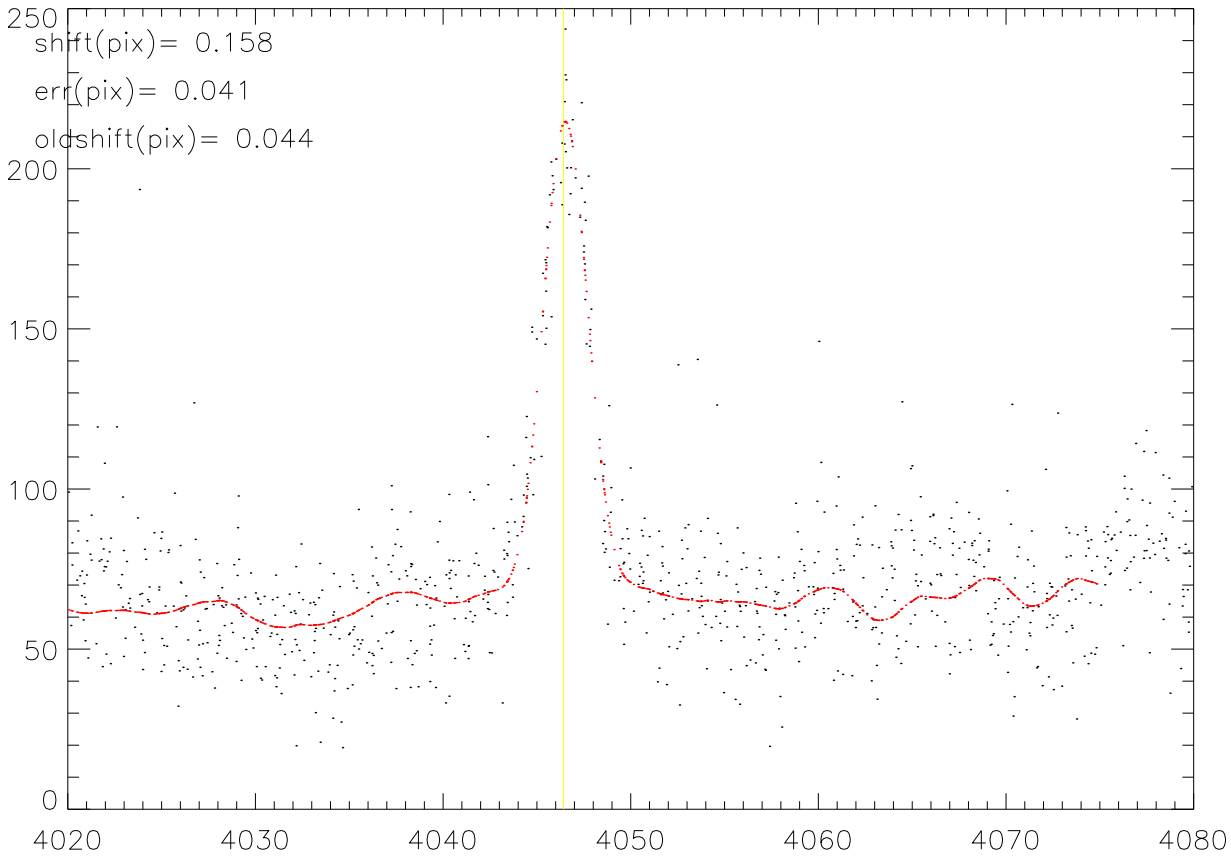

PLATE=3196 MJD=54834 Scattered Light before halo removal on sdR-b2-00057871.f
Brightness [electrons/pix]
30
20
10
0
Error bars denote full range
Min value = 20.563
Max value = 26.814
4000
4500
5000
5500
6000
λ [A]
Fri Mar 12 20:58:47 2010

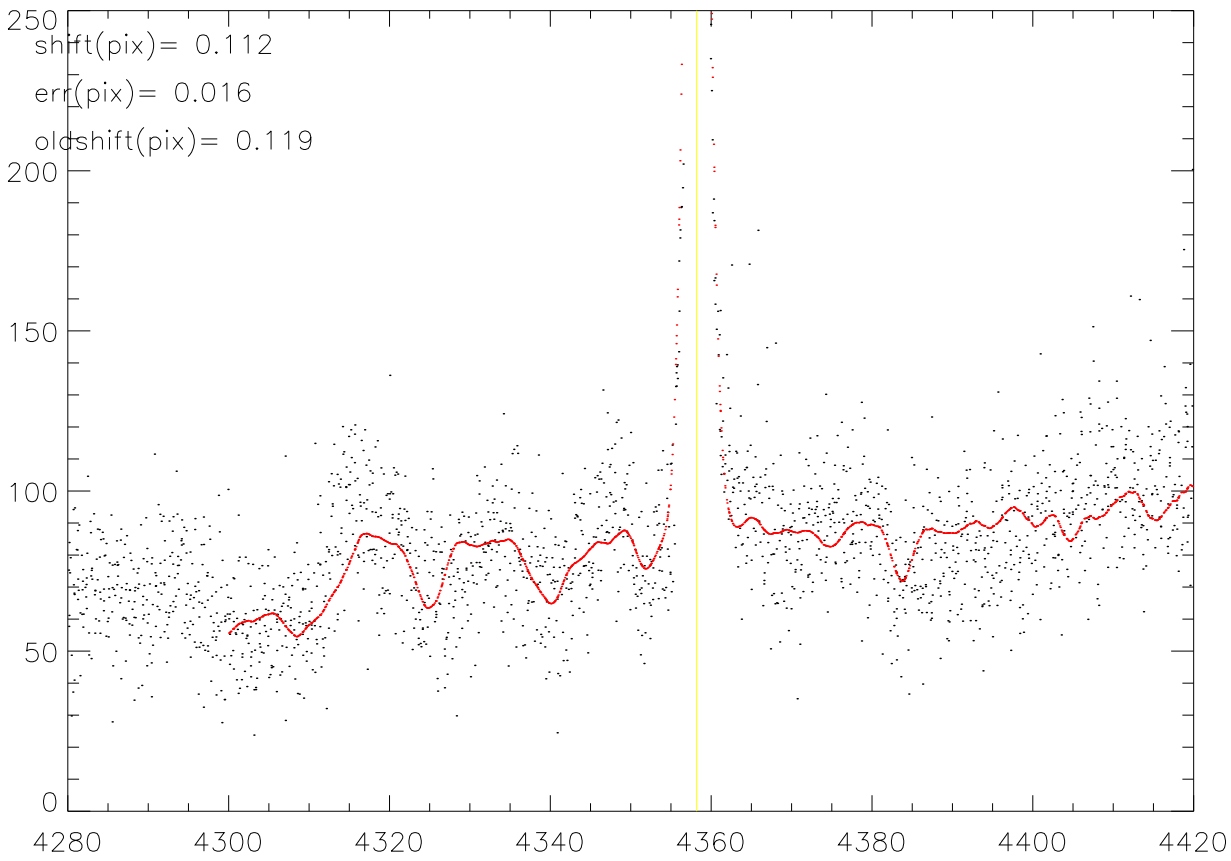

PLATE=3196 MJD=54834 Scattered Light on sdR-b2-00057871.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
15.5
17.6
13.3

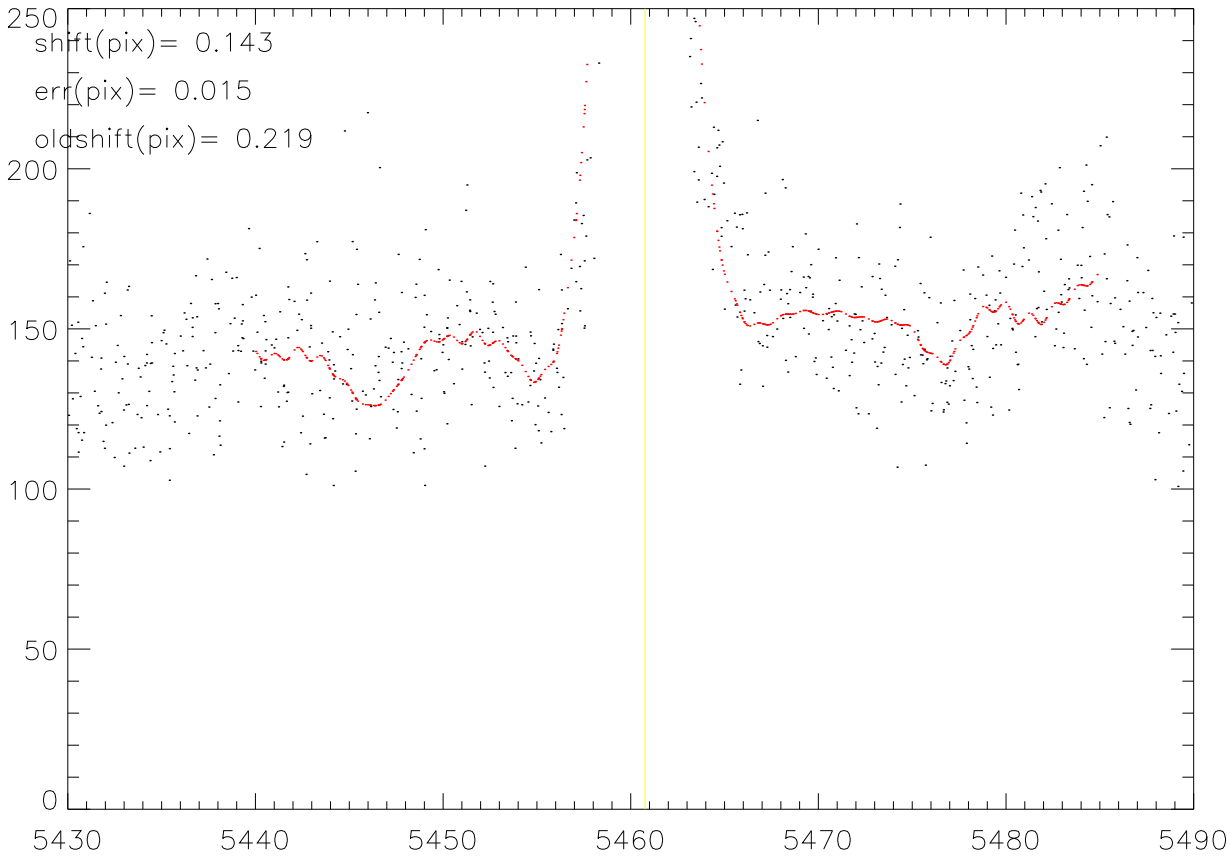

PLATE=3196 MJD=54834 Scattered Light on sdR-b2-00057871.fit
Brightness [electrons/pix]
25
20
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 13.057
Max value = 18.937
Fri Mar 12 21:02:32 2010

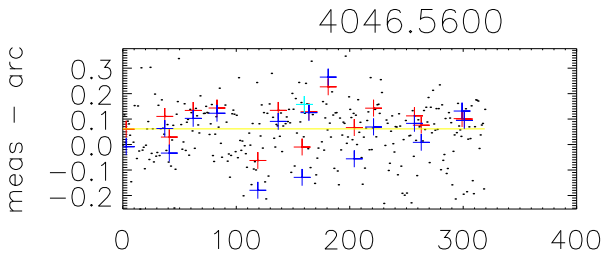

PLATE=3196 MJD=54834 Extraction chi^2 for sdR-b2-00057871.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

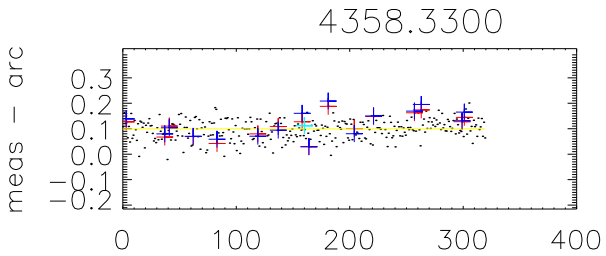

4046.5600
off: 0.04
sig: 0.034
4358.3300
off: 0.12
sig: 0.013
5460.9400
off: 0.22
sig: 0.012
5577.3390
off: 0.21
sig: 0.003
5889.9500
off: 0.33
sig: 0.007
5895.9240
off: 0.28
sig: 0.009

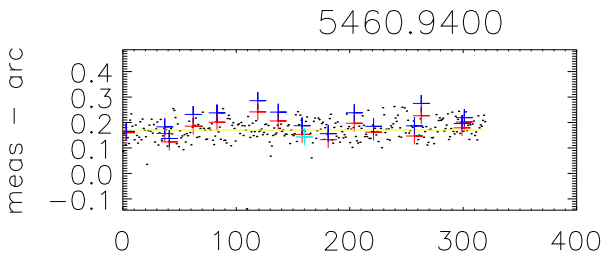

shift(pix)= 0.158
err(pix)= 0.041
oldshift(pix)= 0.044
250
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

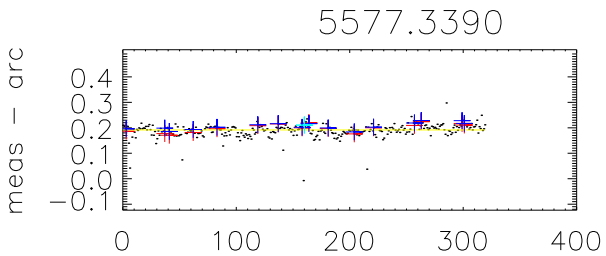

shift(pix)= 0.112
err(pix)= 0.016
oldshift(pix)= 0.119
250
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

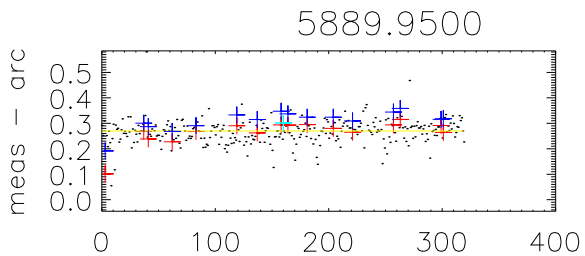

shift(pix)= 0.143
err(pix)= 0.015
oldshift(pix)= 0.219
250
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

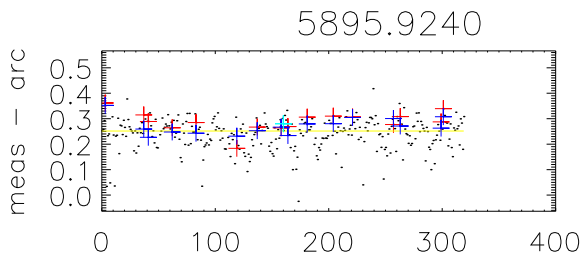

4046.5600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

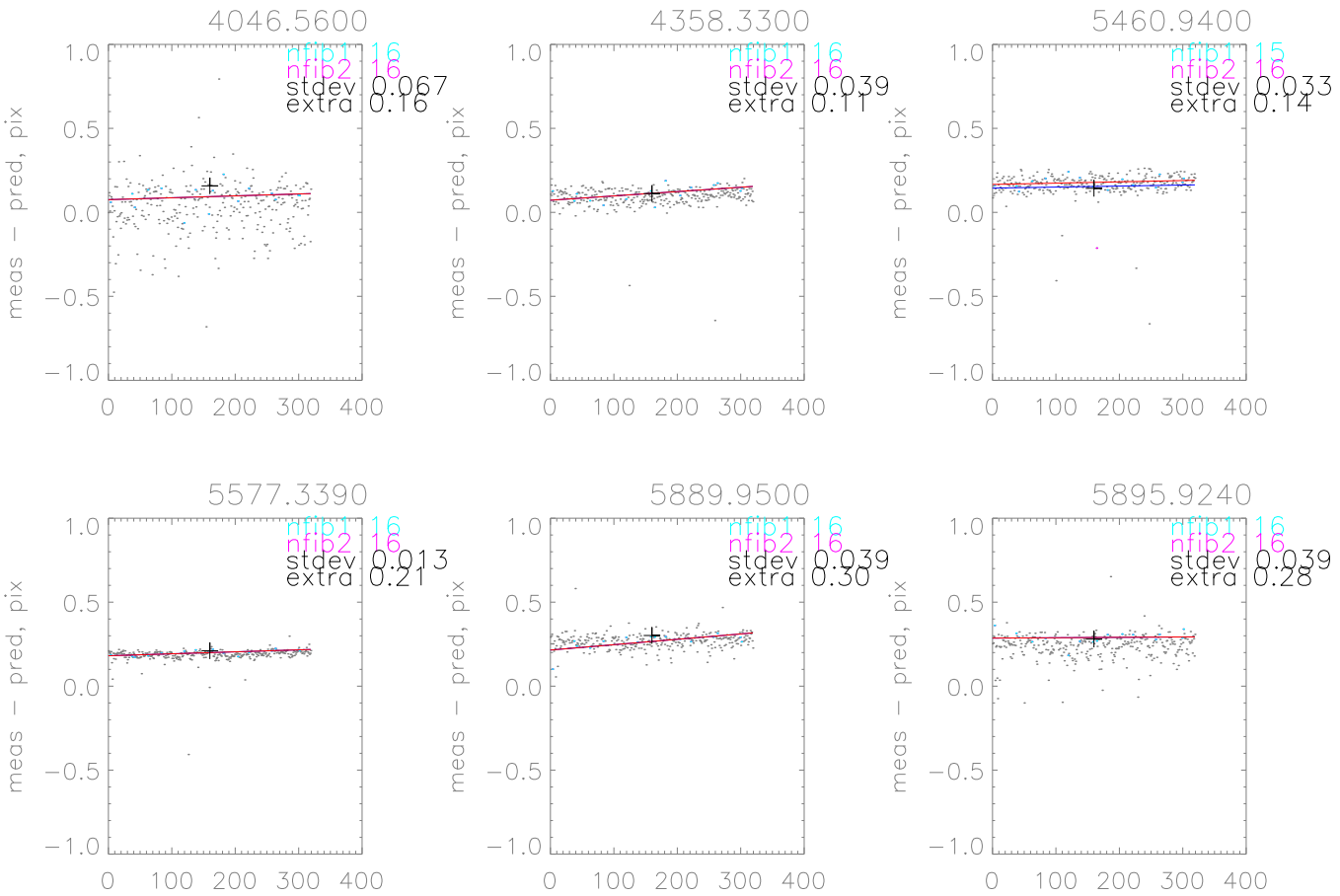

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

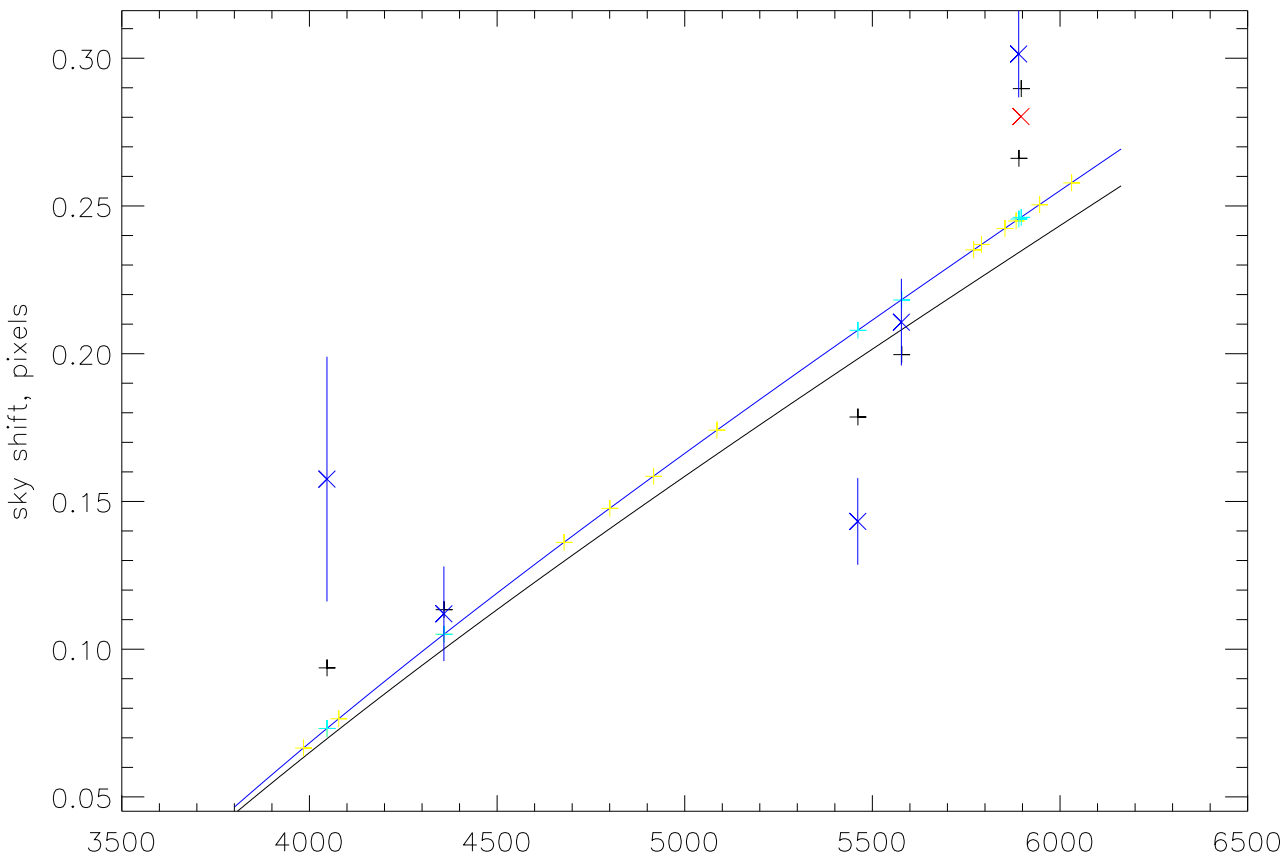

5460.9400
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

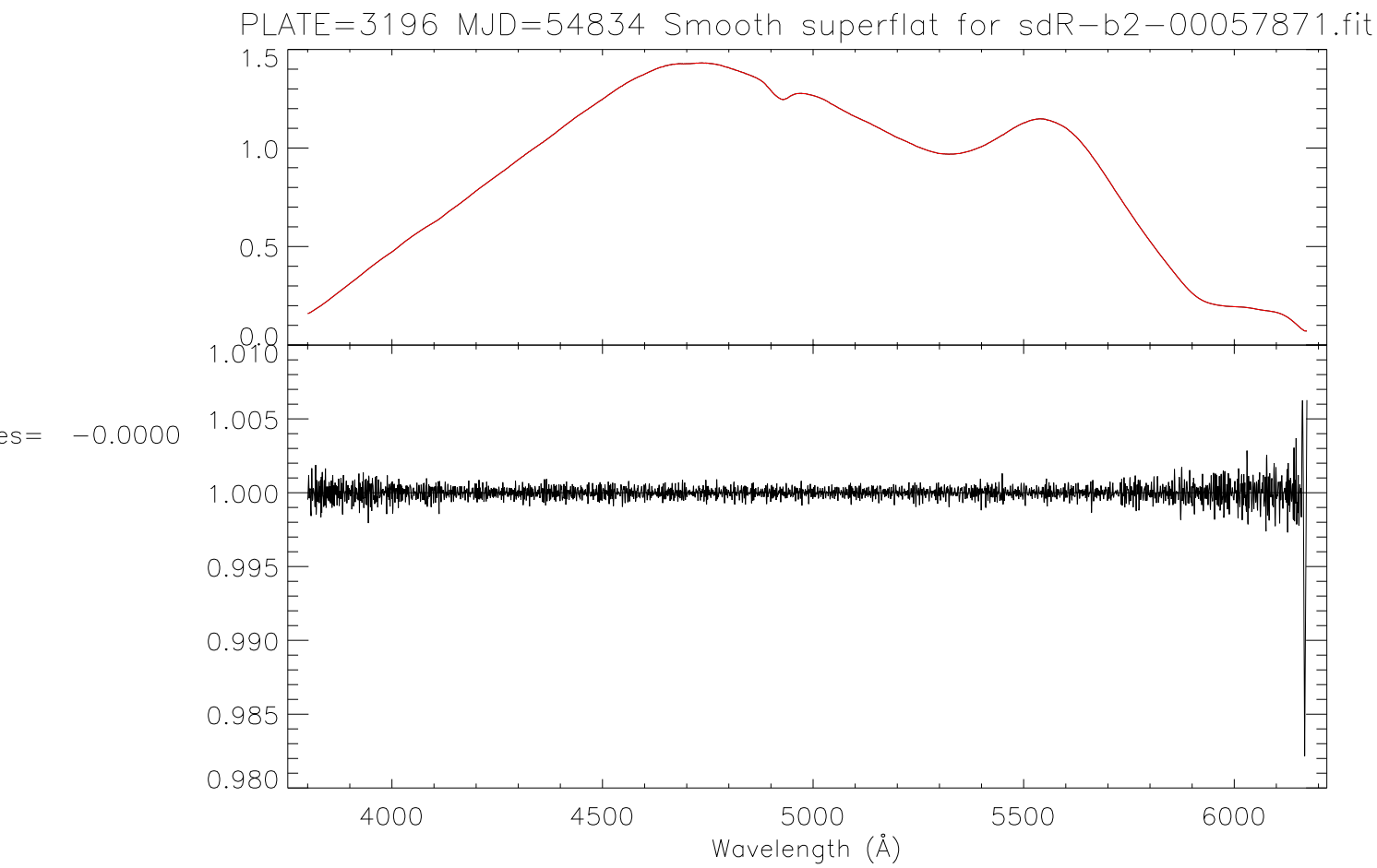

5577.3390
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

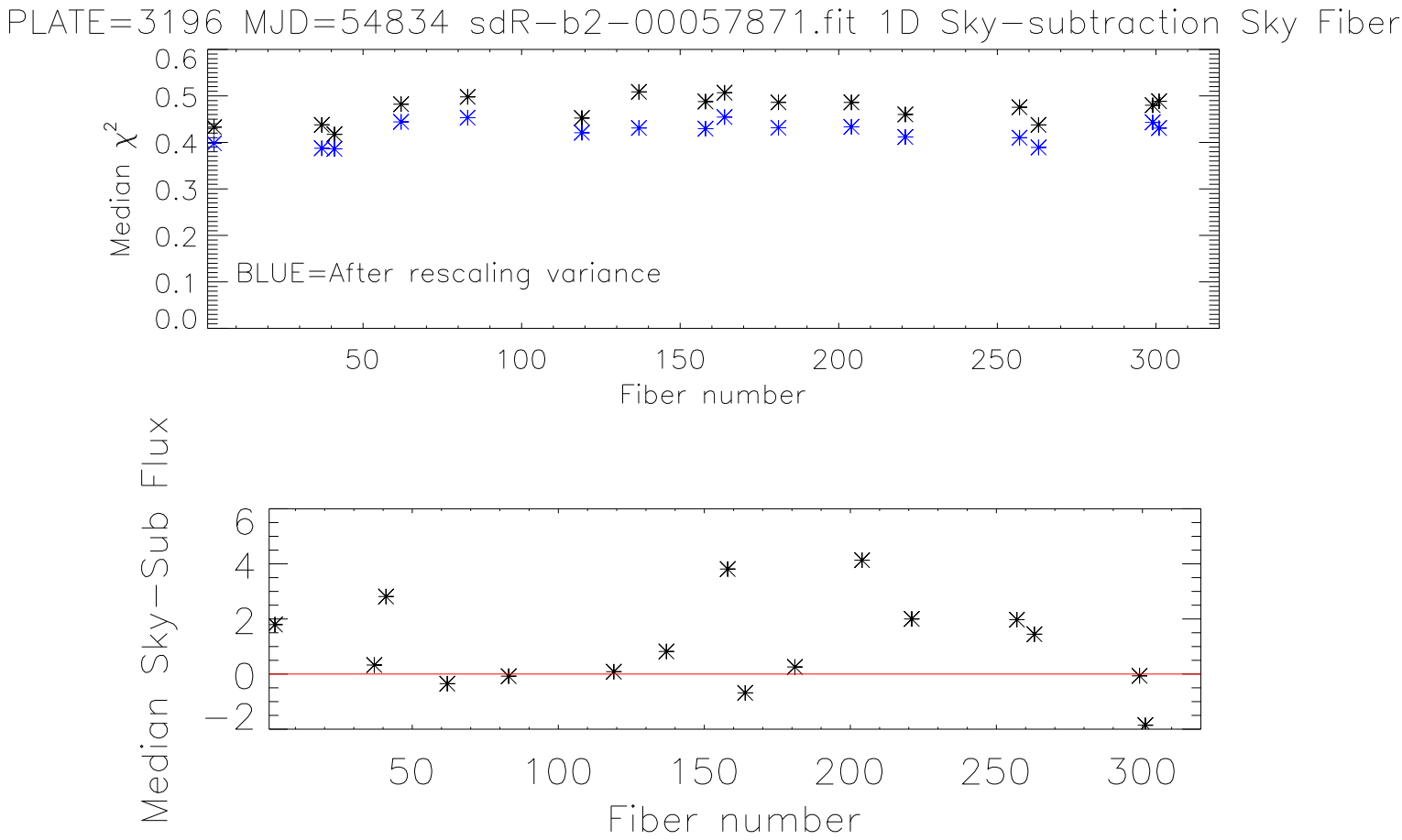

5889.9500
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

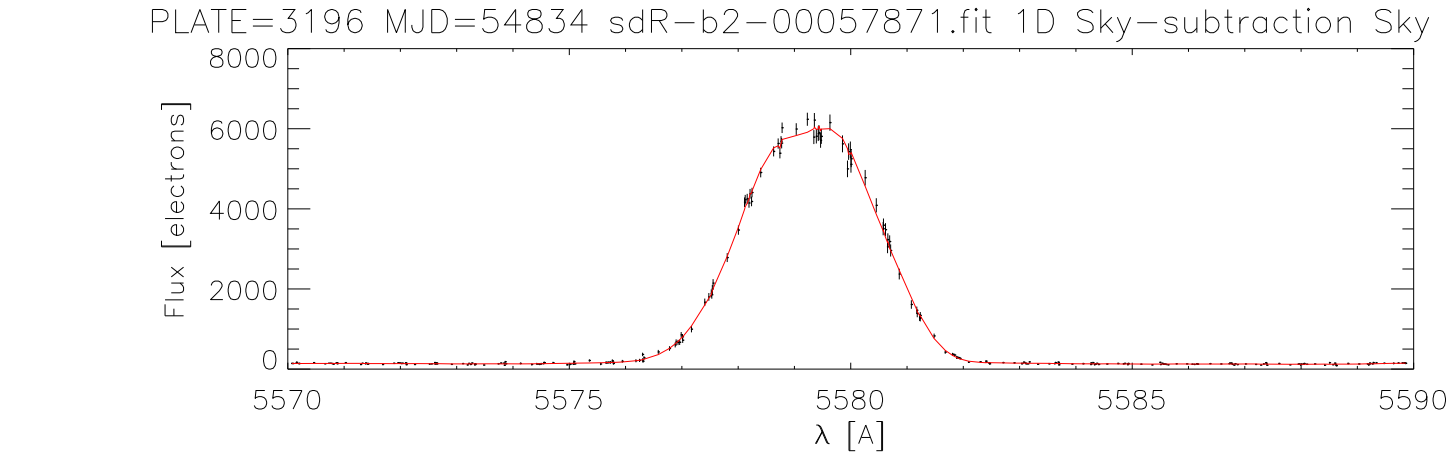

5895.9240
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

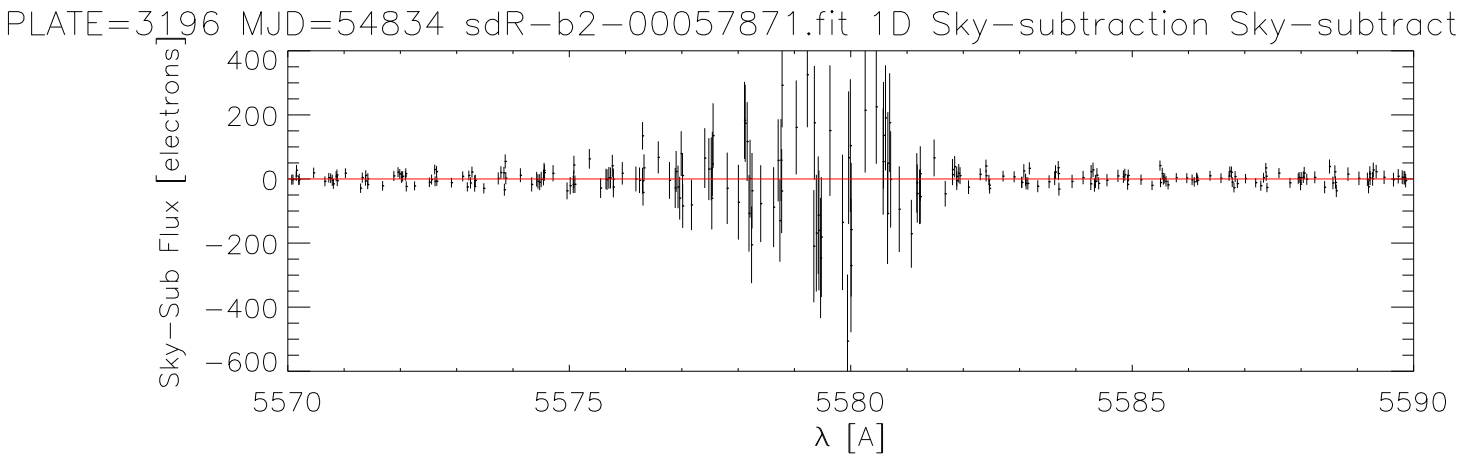

4046.5600
nfib1 16
nfib2 16
stdev 0.067
extra 0.16
4358.3300
nfib1 16
nfib2 16
stdev 0.039
extra 0.11
5460.9400
nfib1 15
nfib2 16
stdev 0.033
extra 0.14
5577.3390
nfib1 16
nfib2 16
stdev 0.013
extra 0.21
5889.9500
nfib1 16
nfib2 16
stdev 0.039
extra 0.30
5895.9240
nfib1 16
nfib2 16
stdev 0.039
extra 0.28
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

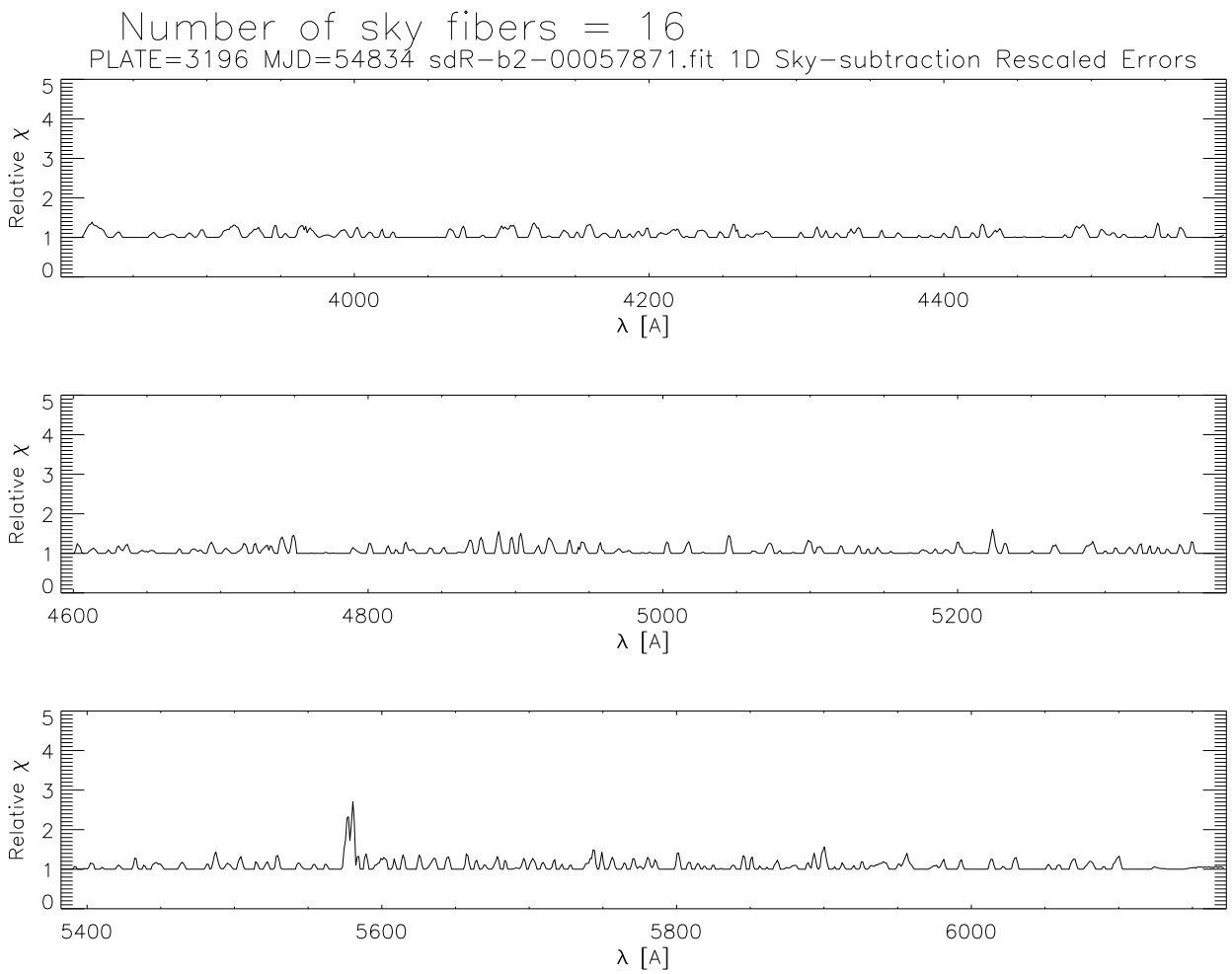

sky shift, pixels
0.30
0.25
0.20
0.15
0.10
0.05
3500
4000
4500
5000
5500
6000
6500

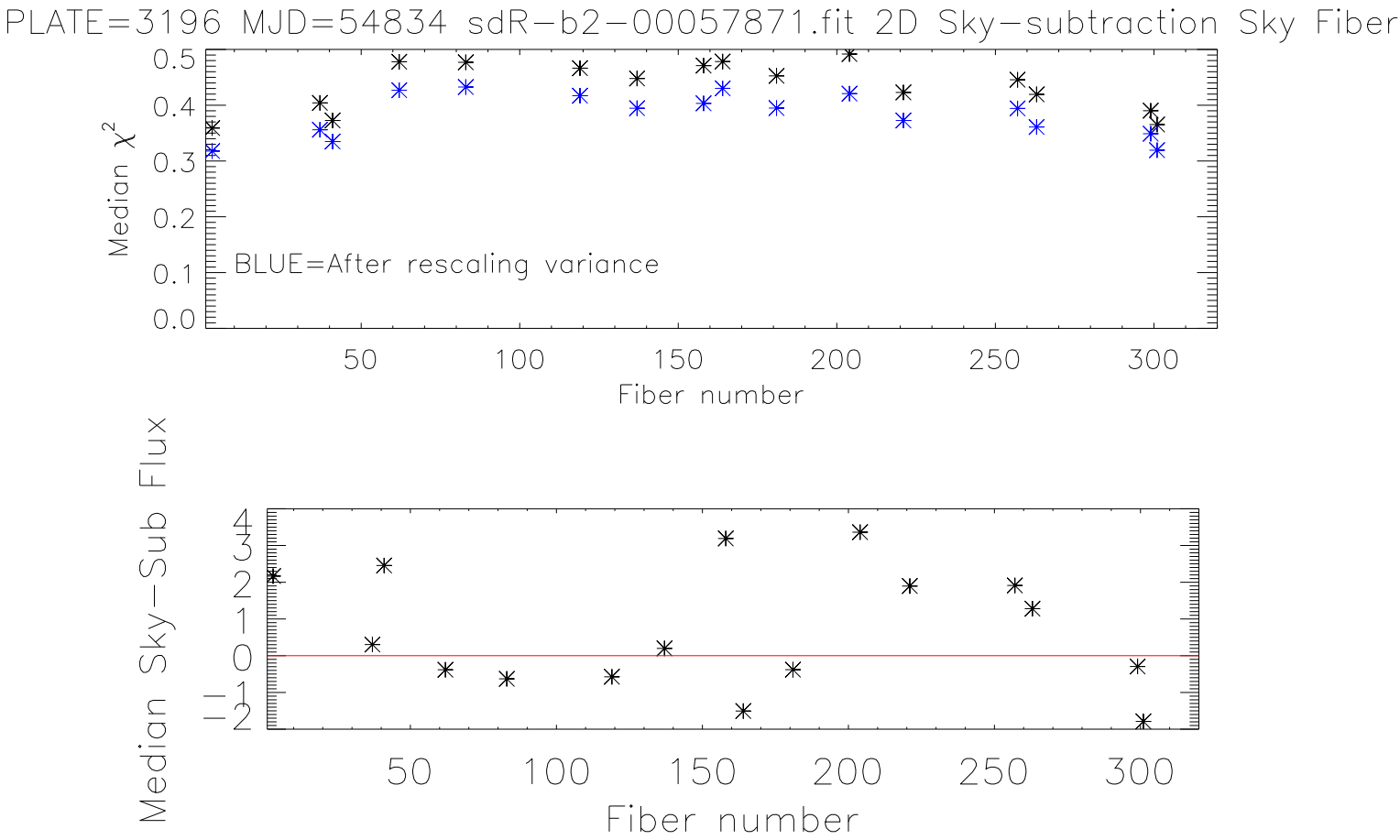

PLATE=3196 MJD=54834 Smooth superflat for sdR-b2-00057871.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
0.980
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

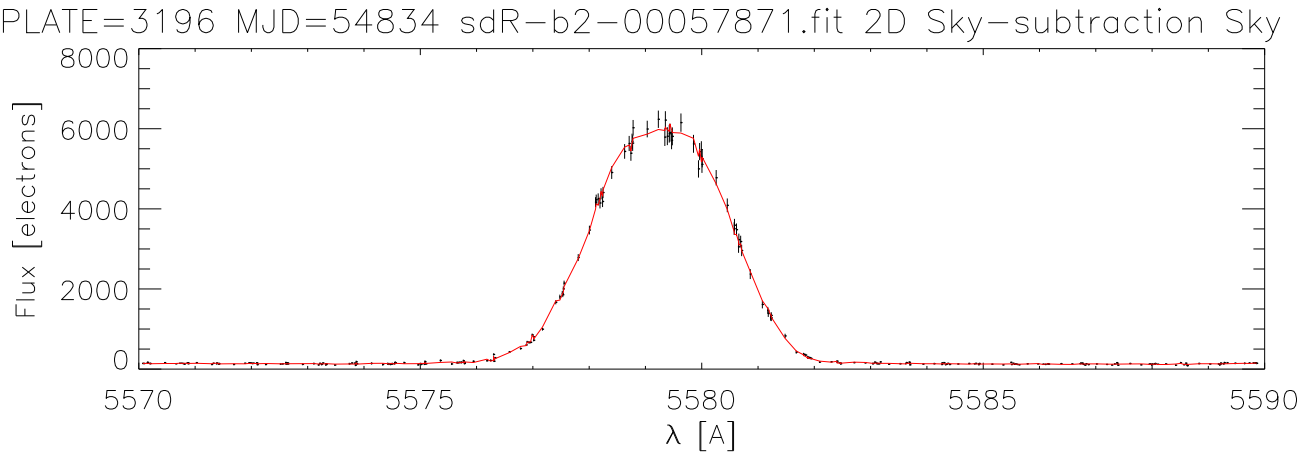

PLATE=3196 MJD=54834 sdR-b2-00057871.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

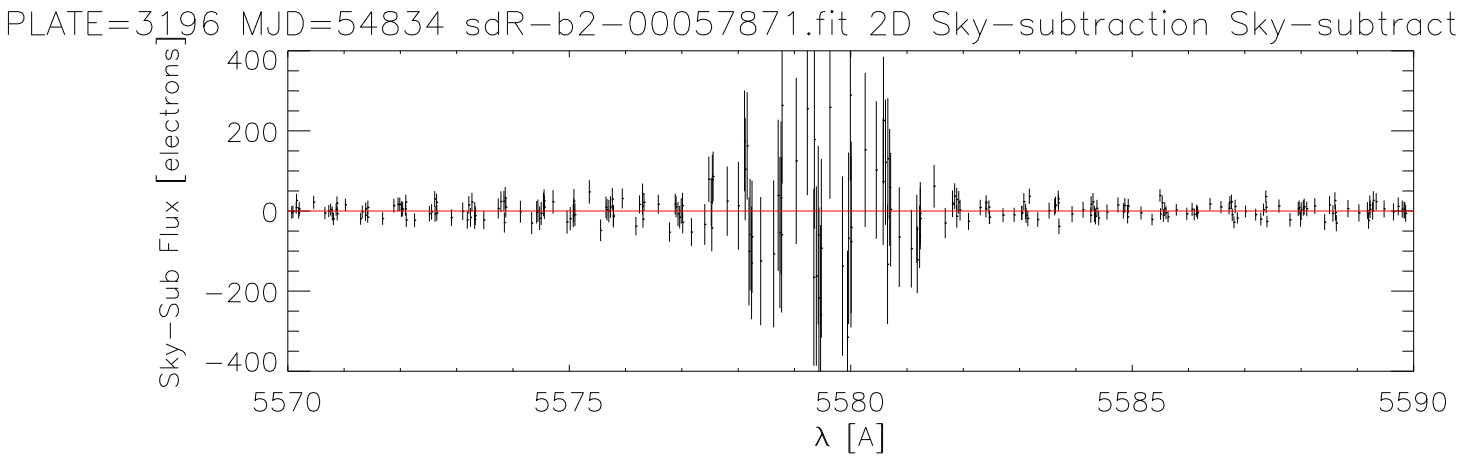

PLATE=3196 MJD=54834 sdR-b2-00057871.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

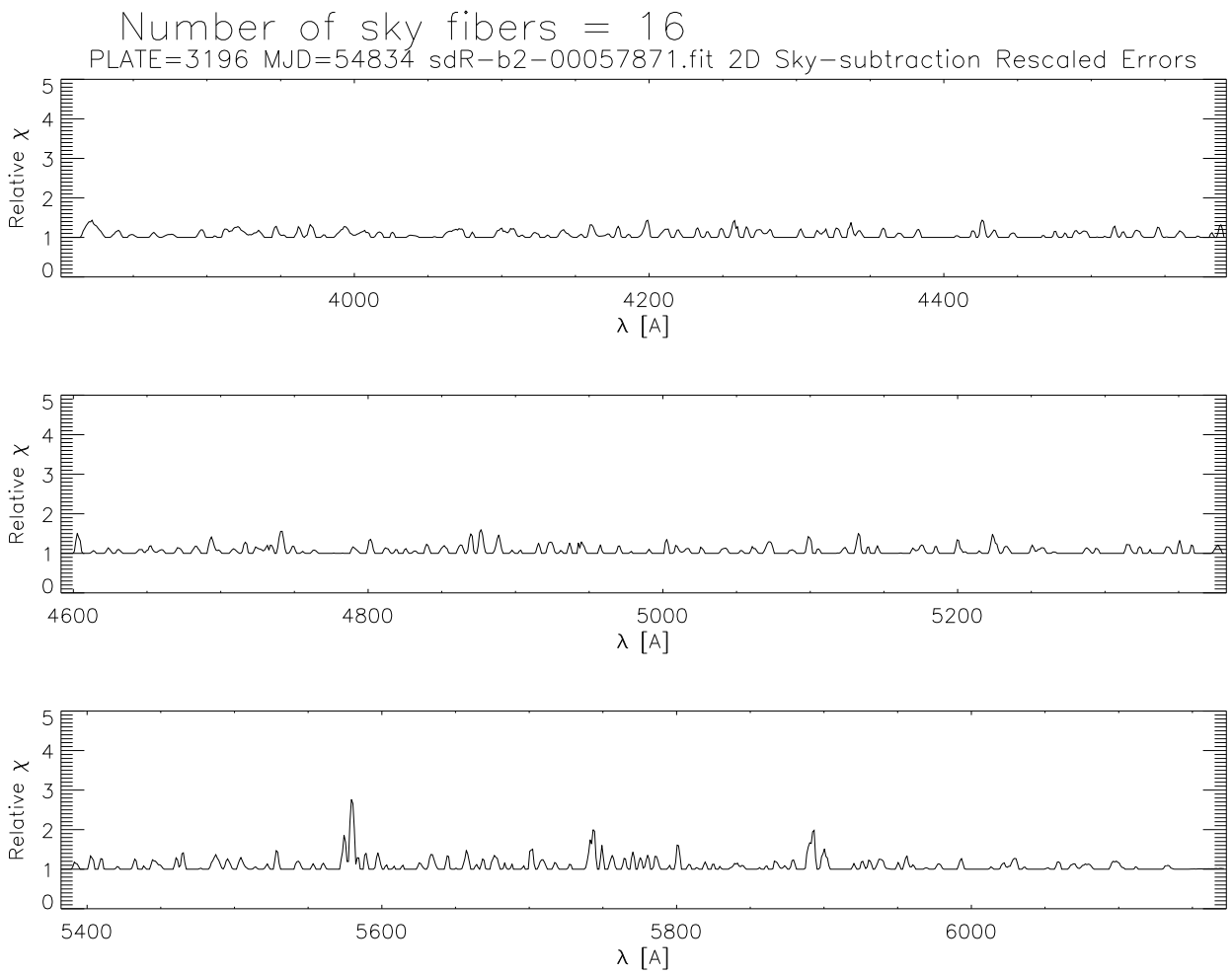

PLATE=3196 MJD=54834 sdR-b2-00057871.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

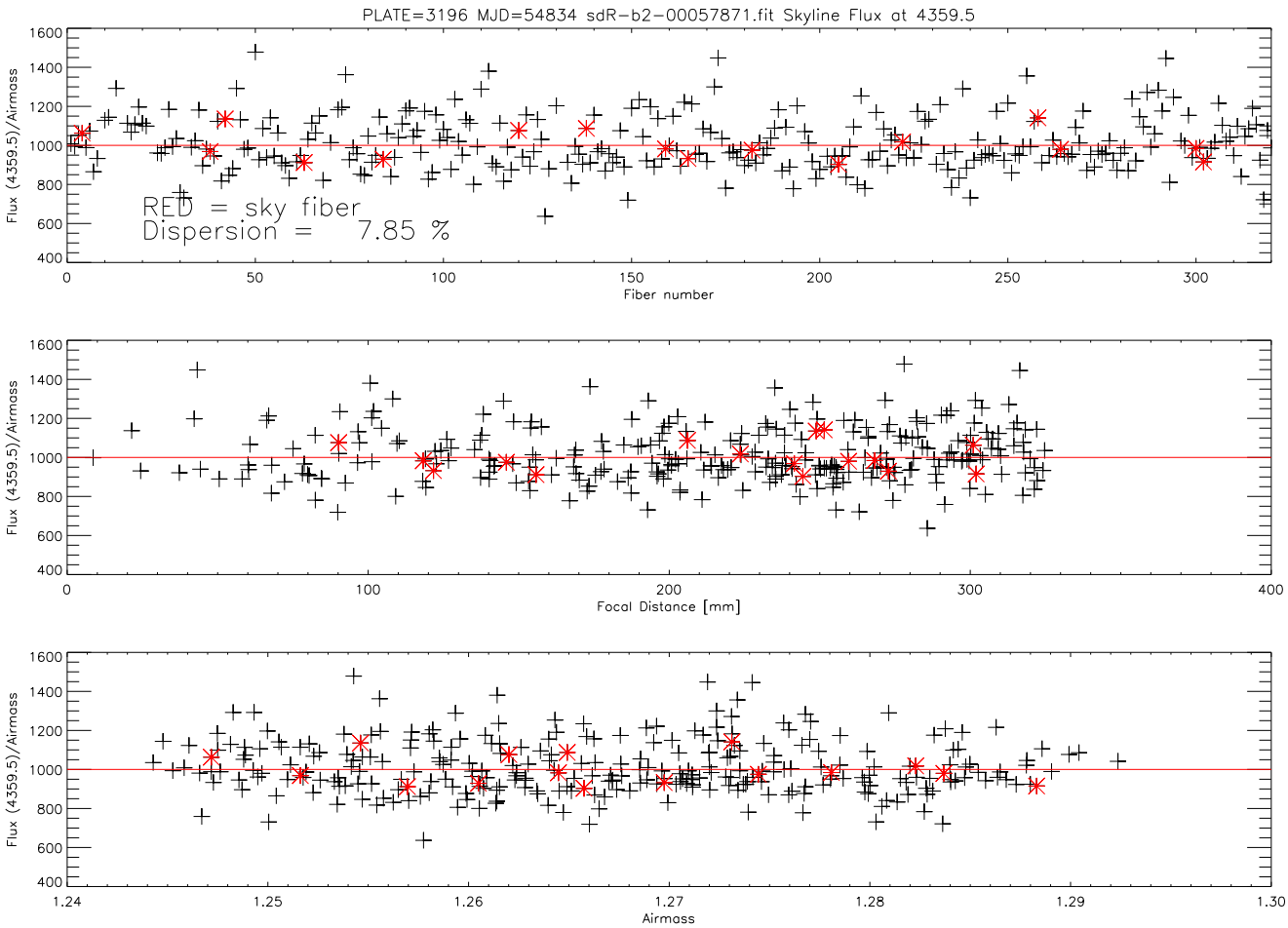

Number of sky fibers = 16
PLATE=3196 MJD=54834 sdR-b2-00057871.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

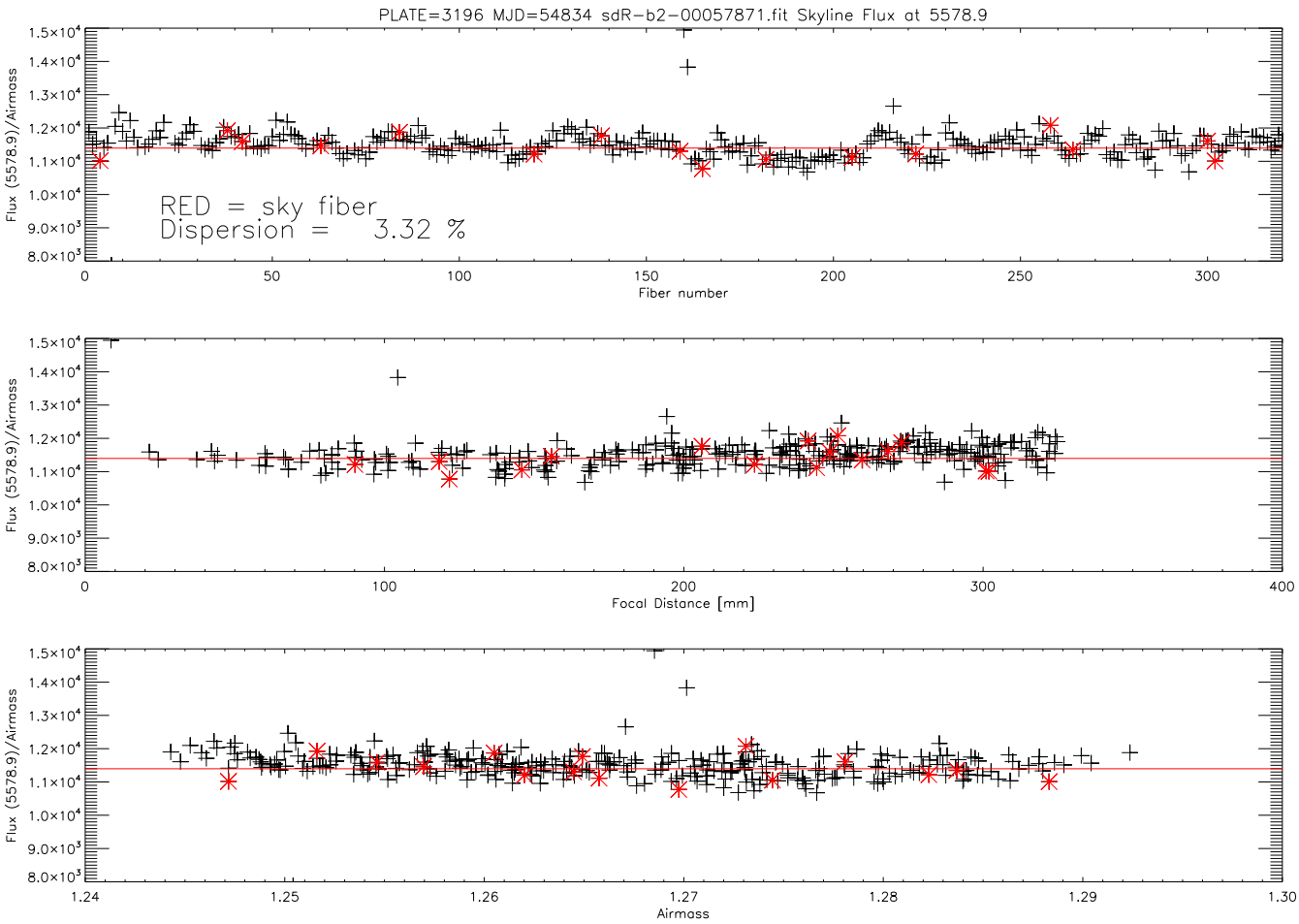

PLATE=3196 MJD=54834 sdR-b2-00057871.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

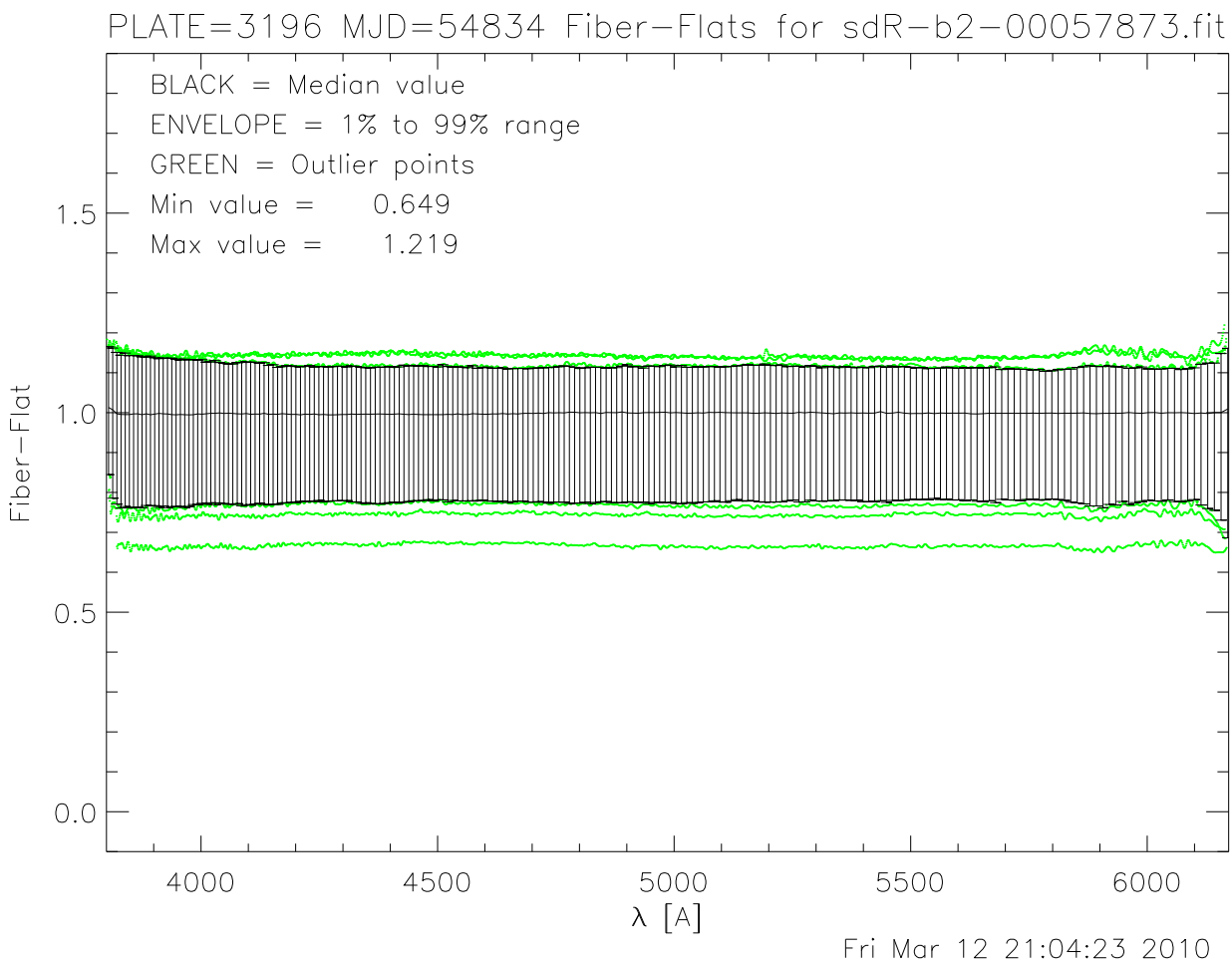

PLATE=3196 MJD=54834 sdR-b2-00057871.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

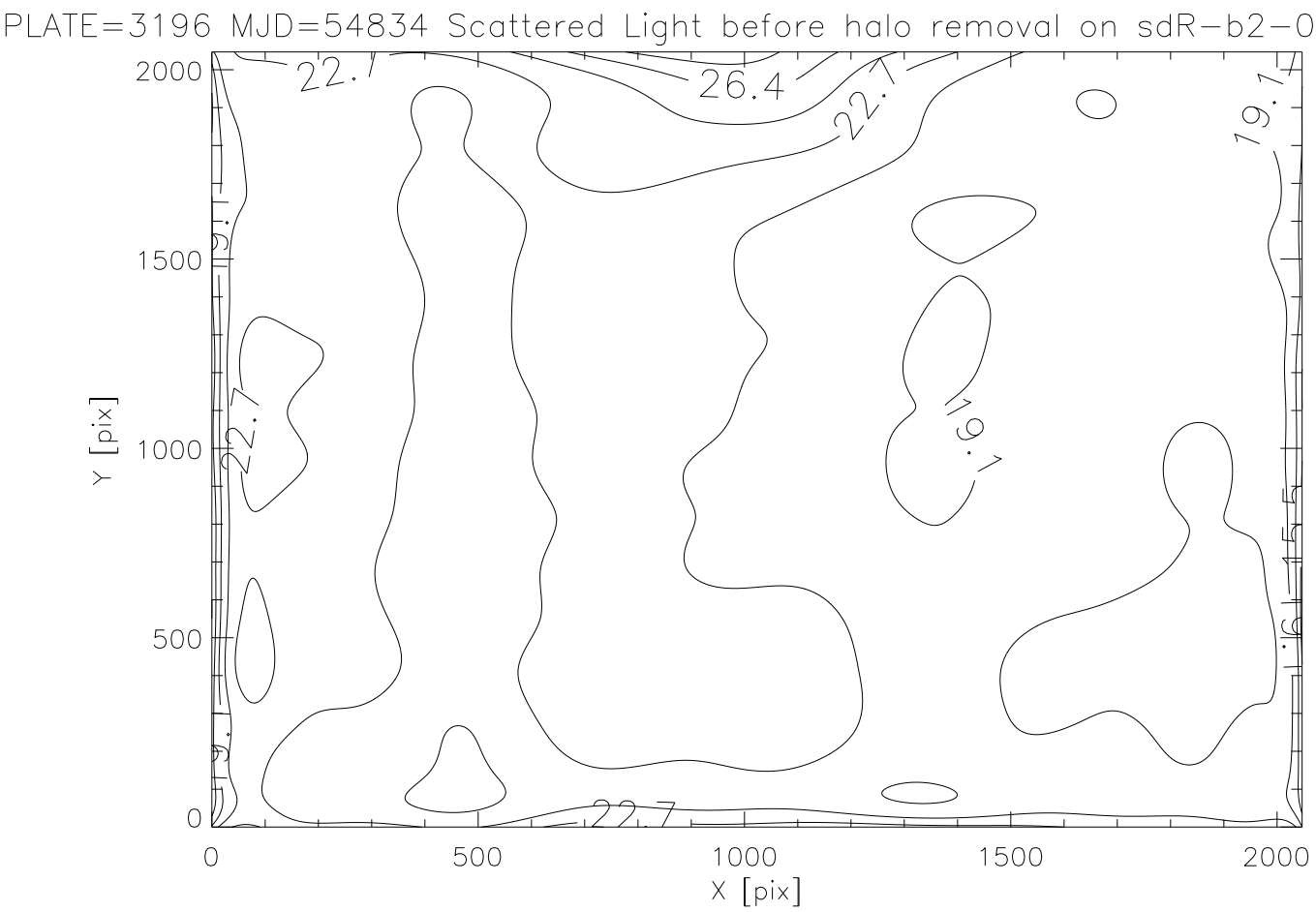

PLATE=3196 MJD=54834 sdR-b2-00057871.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

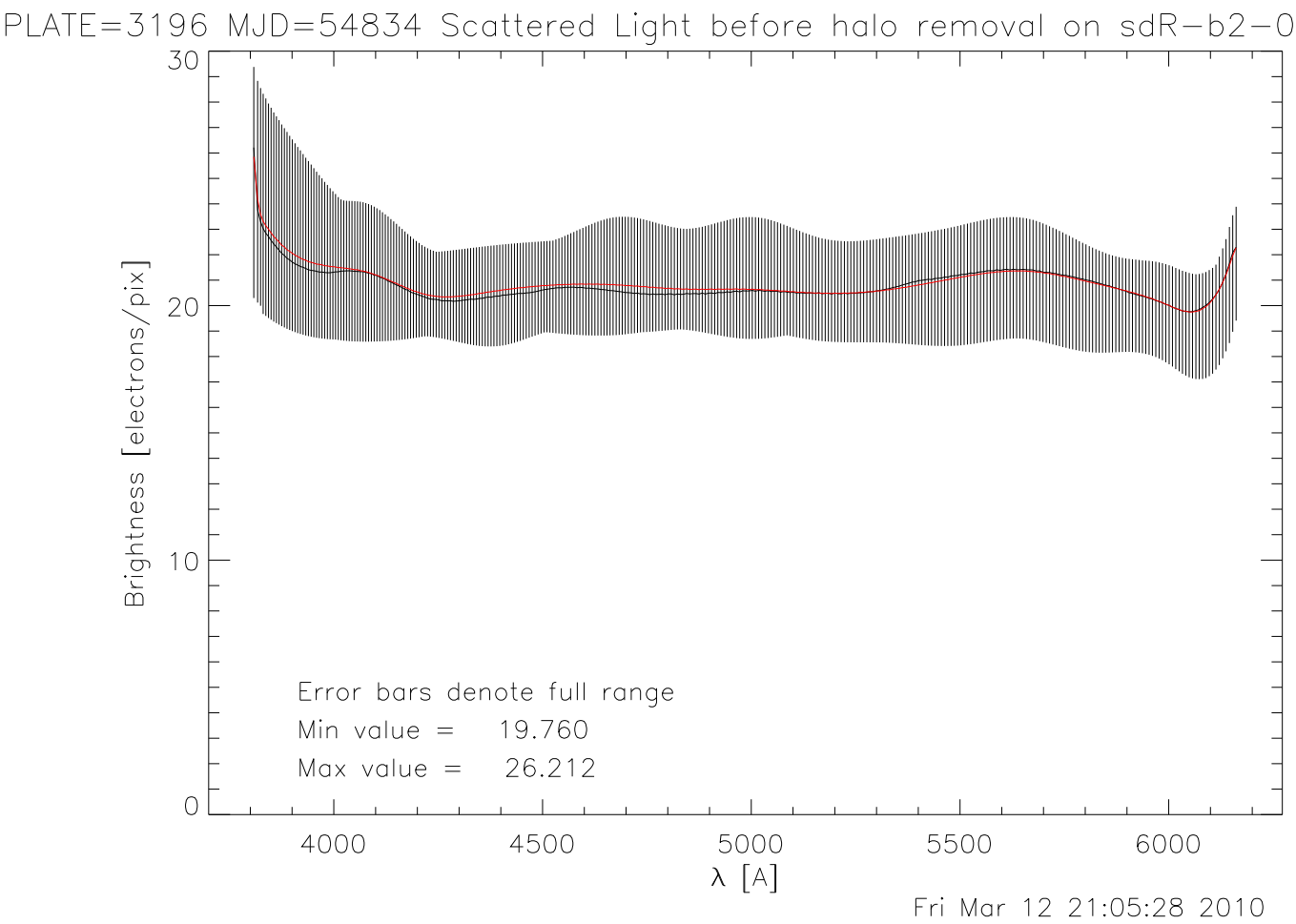

Number of sky fibers = 16
PLATE=3196 MJD=54834 sdR-b2-00057871.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

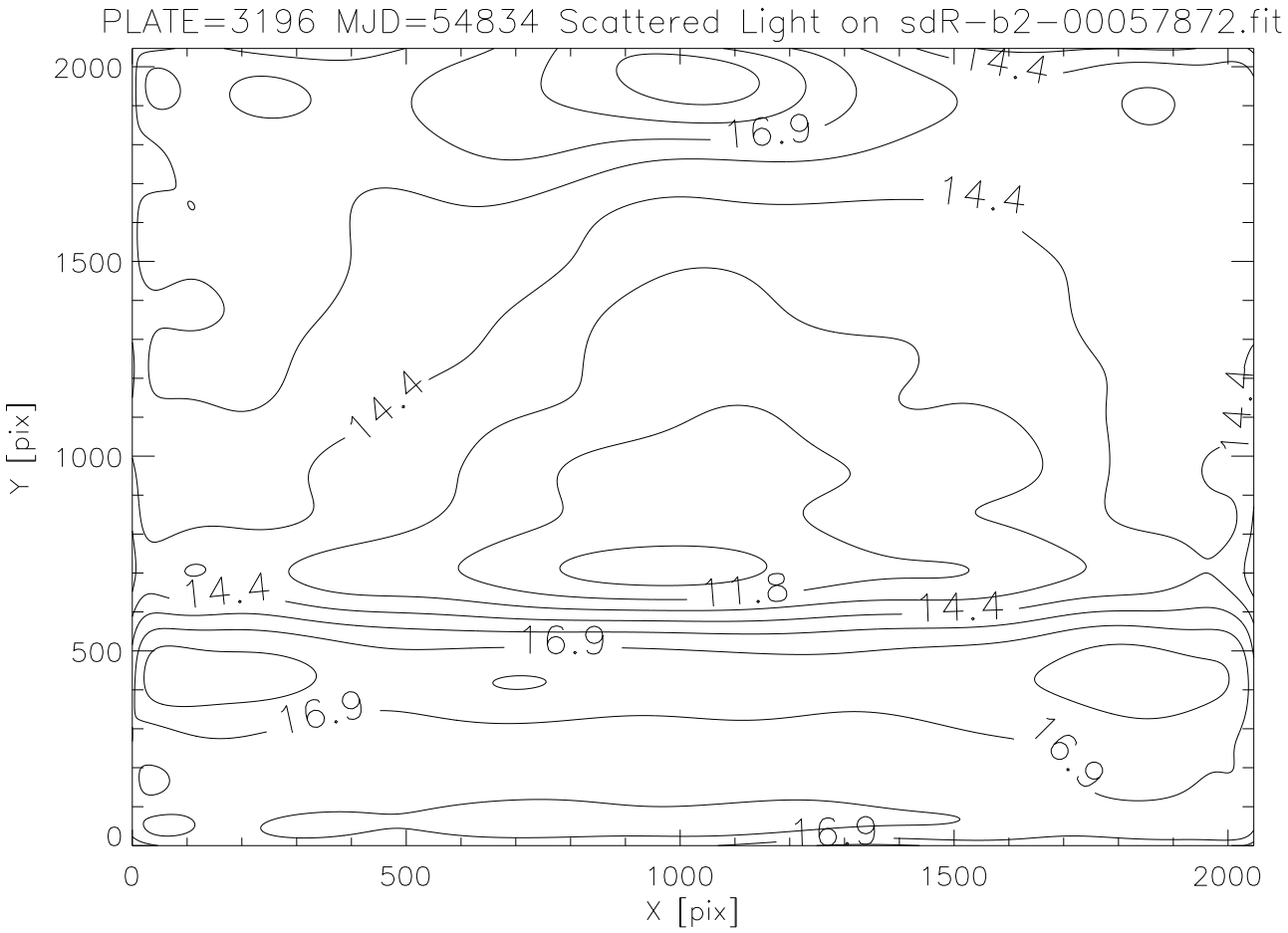

PLATE=3196 MJD=54834 sdR-b2-00057871.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 7.85 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

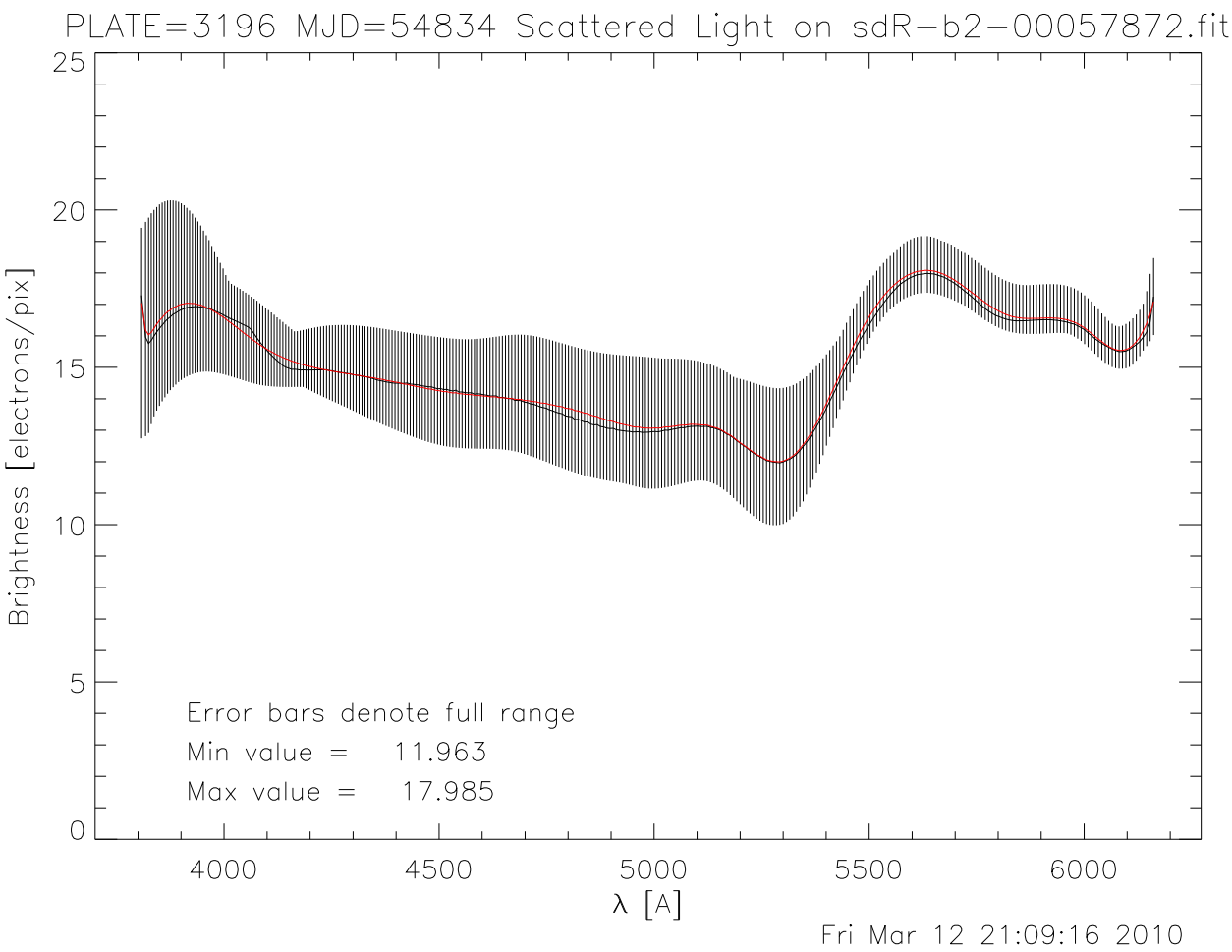

PLATE=3196 MJD=54834 sdR-b2-00057871.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 3.32 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

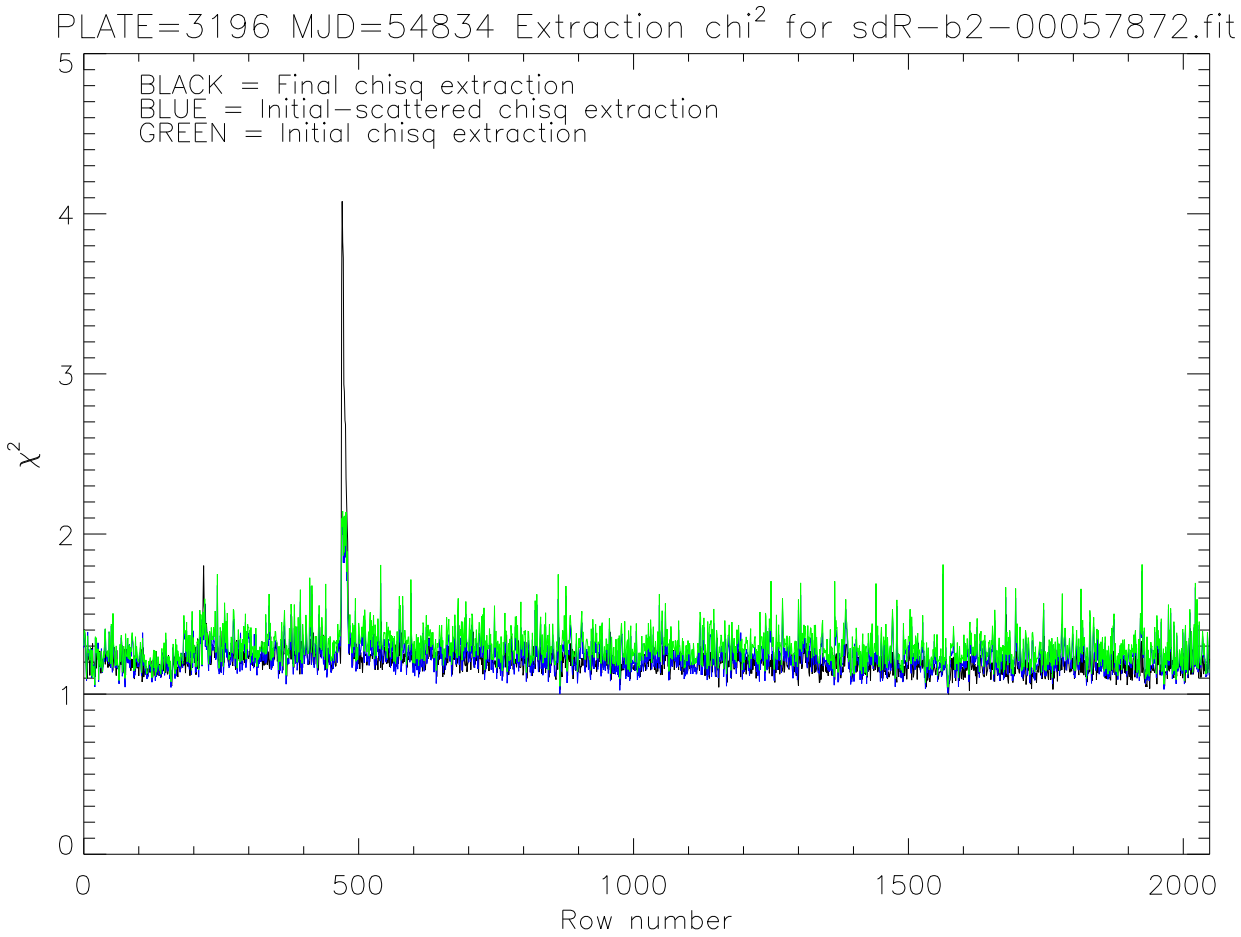

PLATE=3196 MJD=54834 Fiber-Flats for sdR-b2-00057873.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.649
Max value = 1.219
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Fri Mar 12 21:04:23 2010

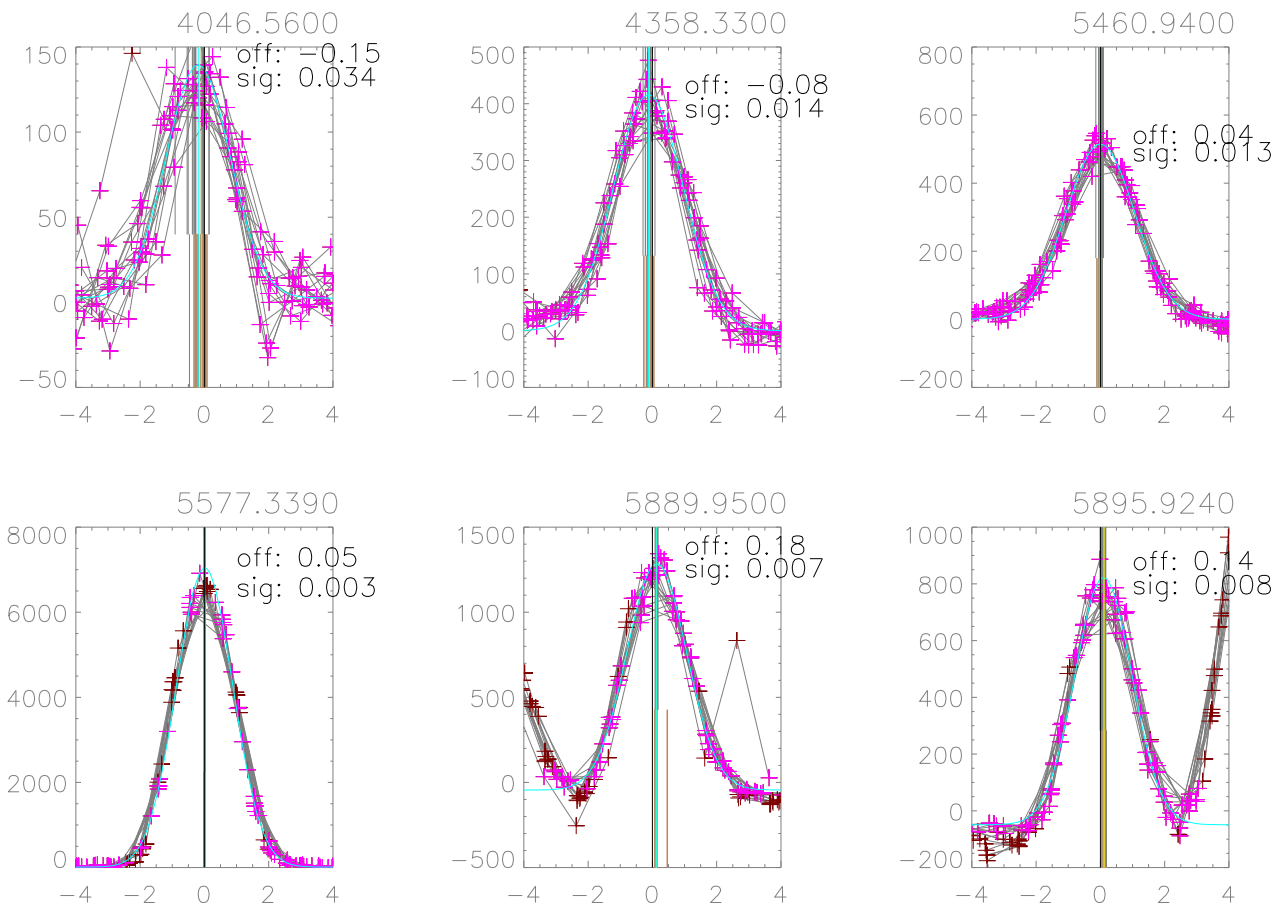

PLATE=3196 MJD=54834 Scattered Light before halo removal on sdR-b2-00057872.f
22.7
26.4
22.7
19.1
19.1
22.7
22.7
22.7
19.1
15.5
19.1
Y [pix]
X [pix]
0
500
1000
1500
2000

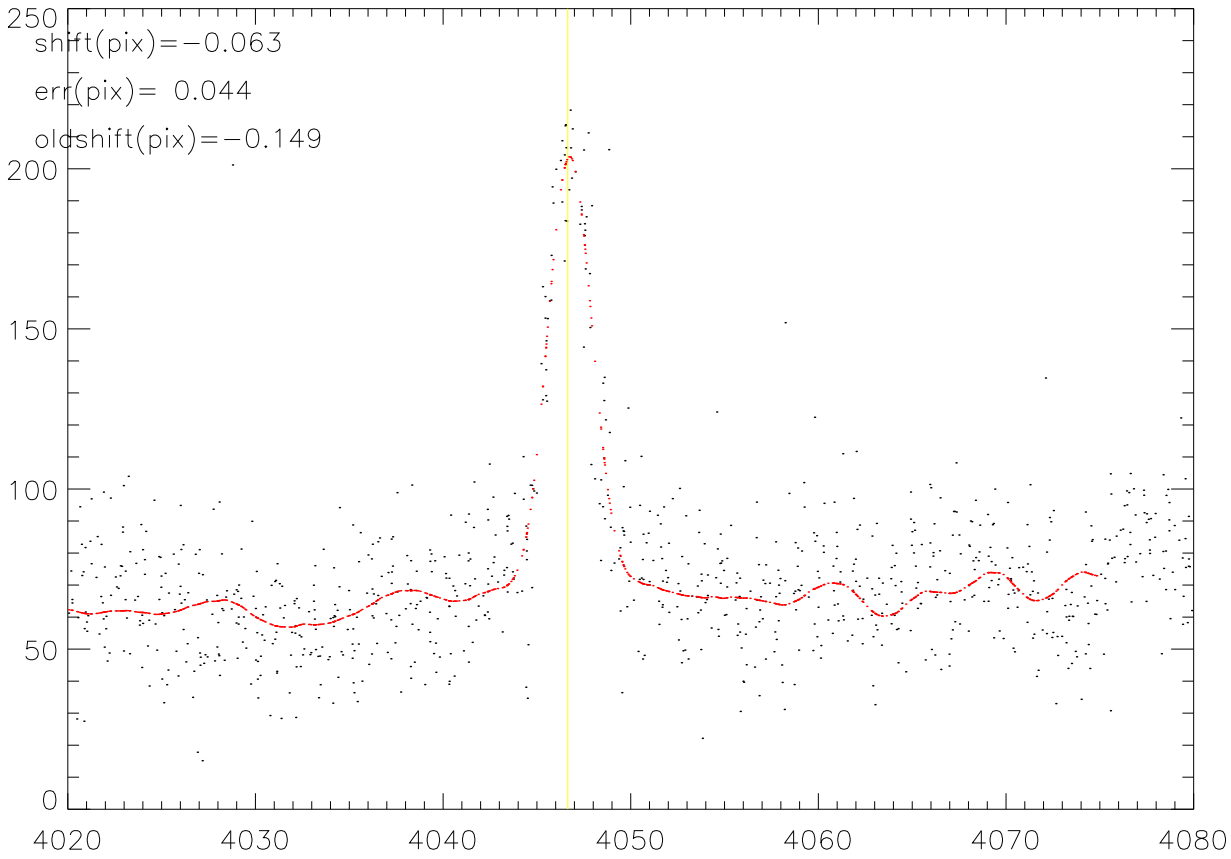

PLATE=3196 MJD=54834 Scattered Light before halo removal on sdR-b2-00057872.f
Brightness [electrons/pix]
30
20
10
0
Error bars denote full range
Min value = 19.760
Max value = 26.212
4000
4500
5000
5500
6000
λ [A]
Fri Mar 12 21:05:28 2010

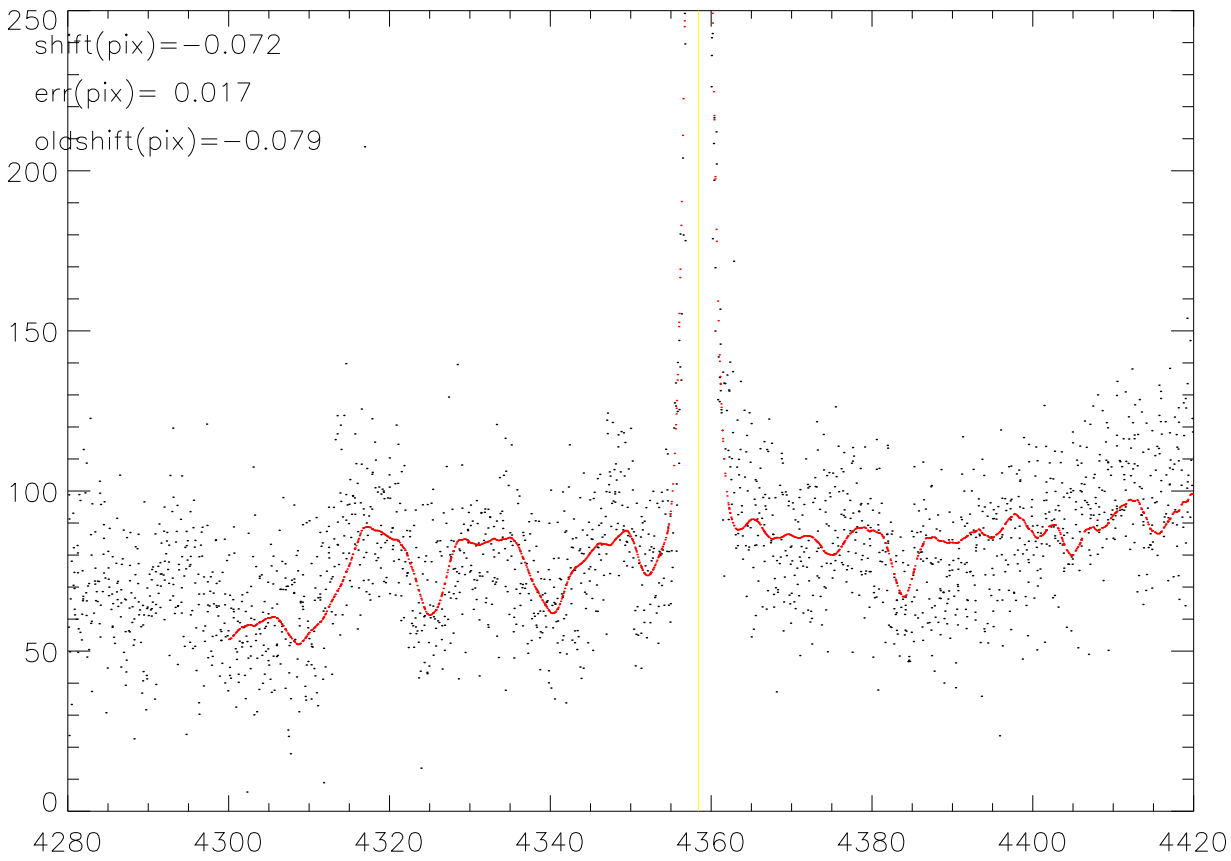

PLATE=3196 MJD=54834 Scattered Light on sdR-b2-00057872.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
14.4
16.9
14.4
14.4
14.4
11.8
14.4
16.9
16.9
16.9
16.9

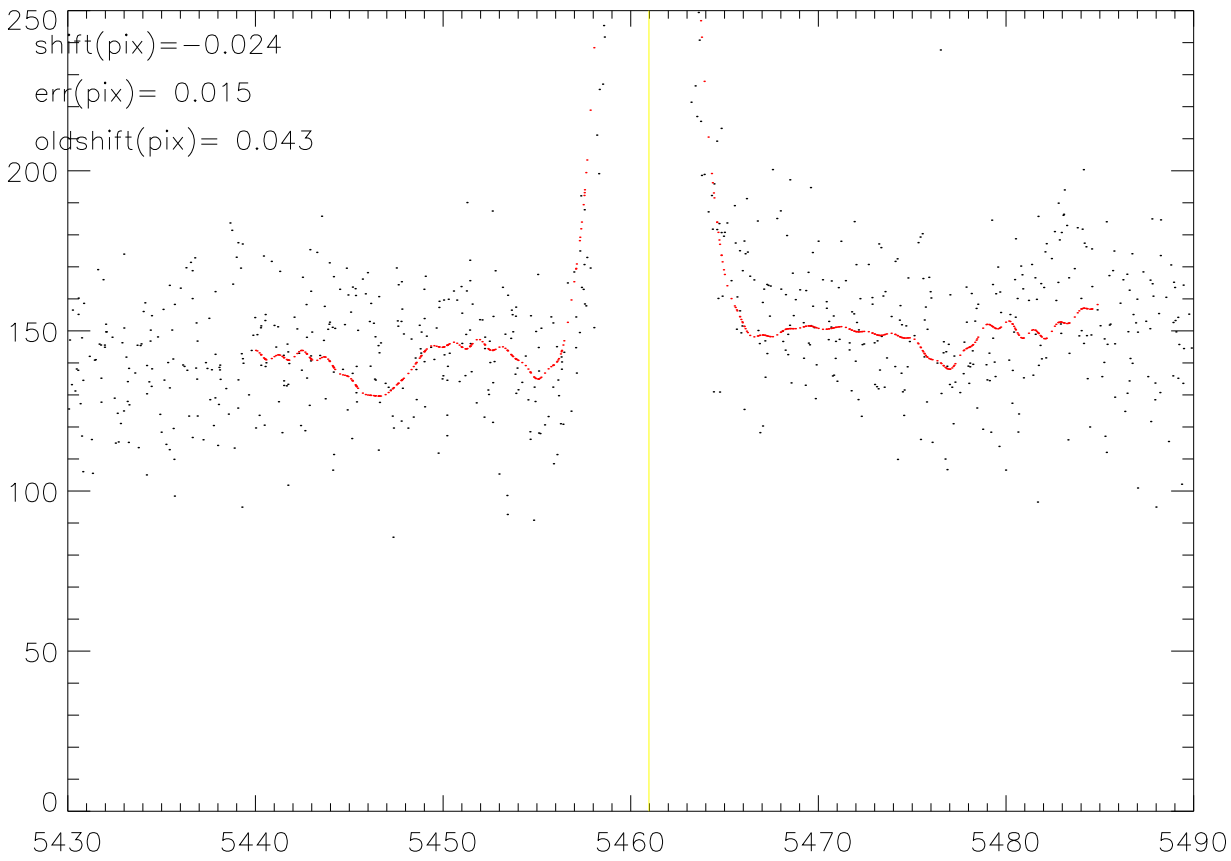

PLATE=3196 MJD=54834 Scattered Light on sdR-b2-00057872.fit
Brightness [electrons/pix]
25
20
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 11.963
Max value = 17.985
Fri Mar 12 21:09:16 2010

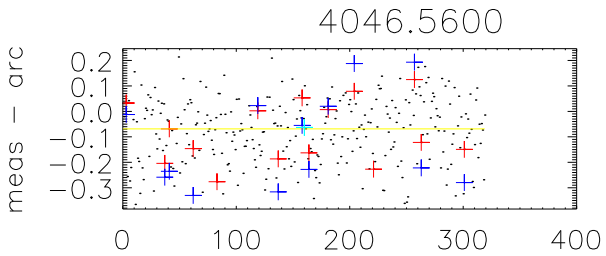

PLATE=3196 MJD=54834 Extraction chi^2 for sdR-b2-00057872.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

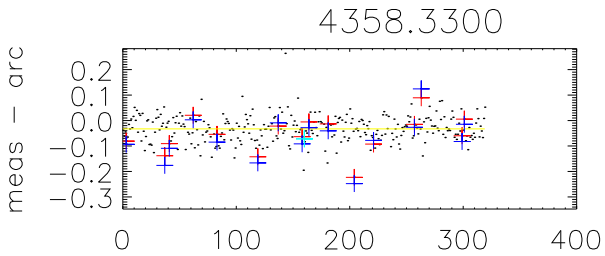

4046.5600
off: −0.15
sig: 0.034
4358.3300
off: −0.08
sig: 0.014
5460.9400
off: 0.04
sig: 0.013
5577.3390
off: 0.05
sig: 0.003
5889.9500
off: 0.18
sig: 0.007
5895.9240
off: 0.14
sig: 0.008

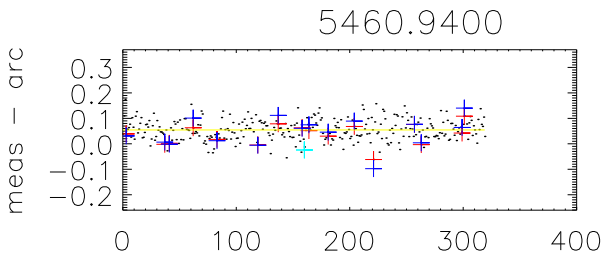

shift(pix)=−0.063
err(pix)= 0.044
oldshift(pix)=−0.149
250
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

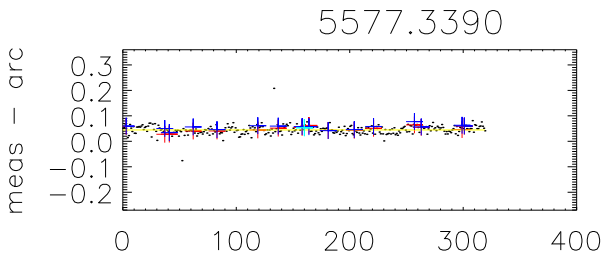

shift(pix)=−0.072
err(pix)= 0.017
oldshift(pix)=−0.079
250
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

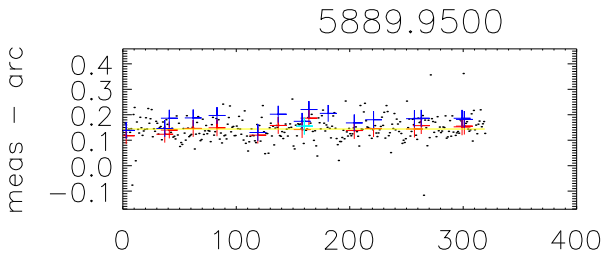

shift(pix)=−0.024
err(pix)= 0.015
oldshift(pix)= 0.043
250
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

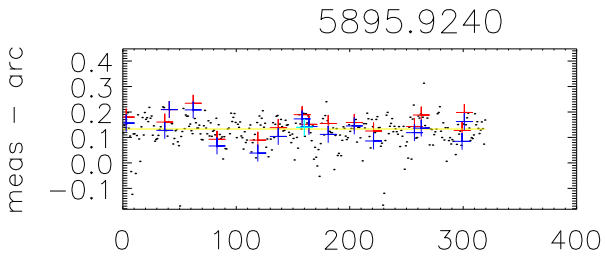

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

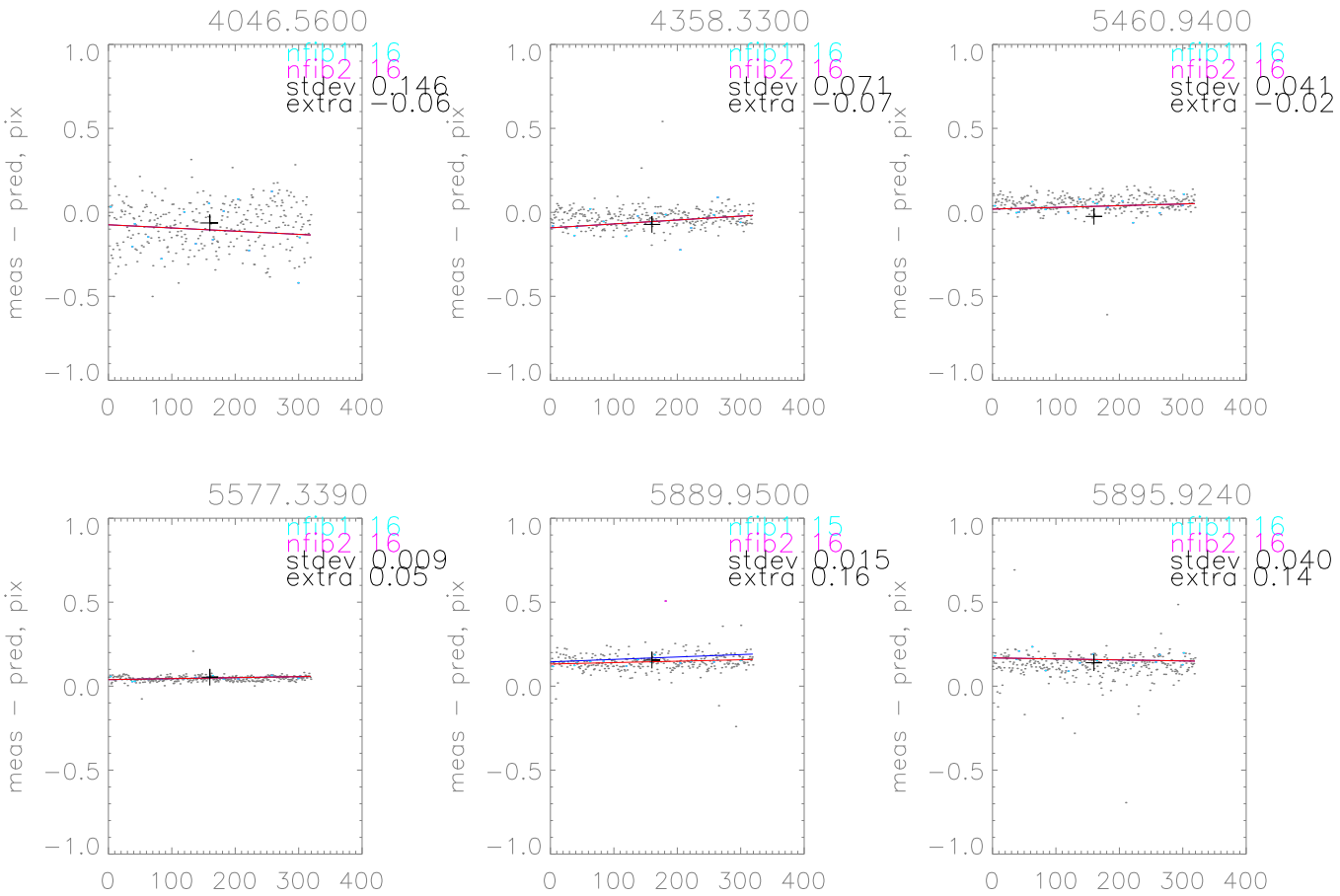

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

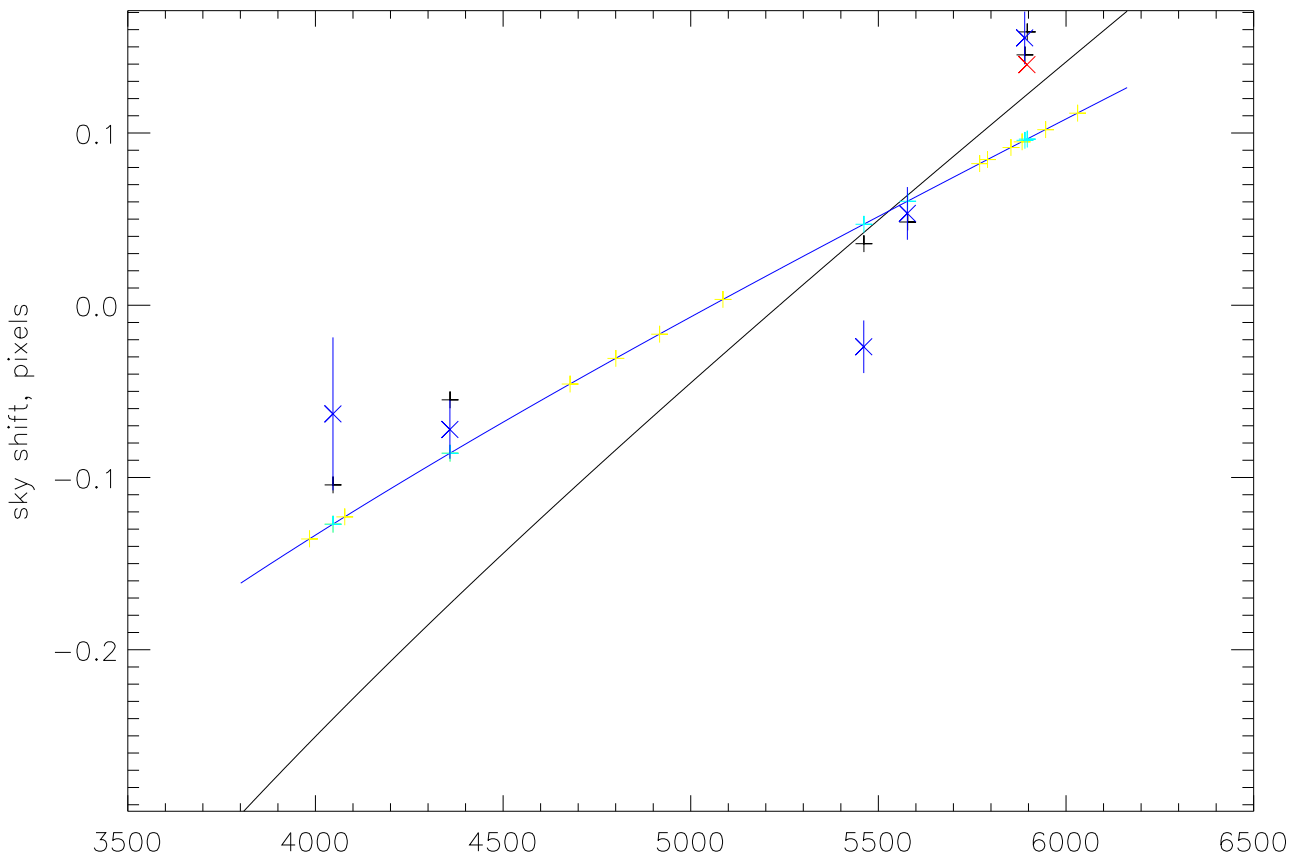

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

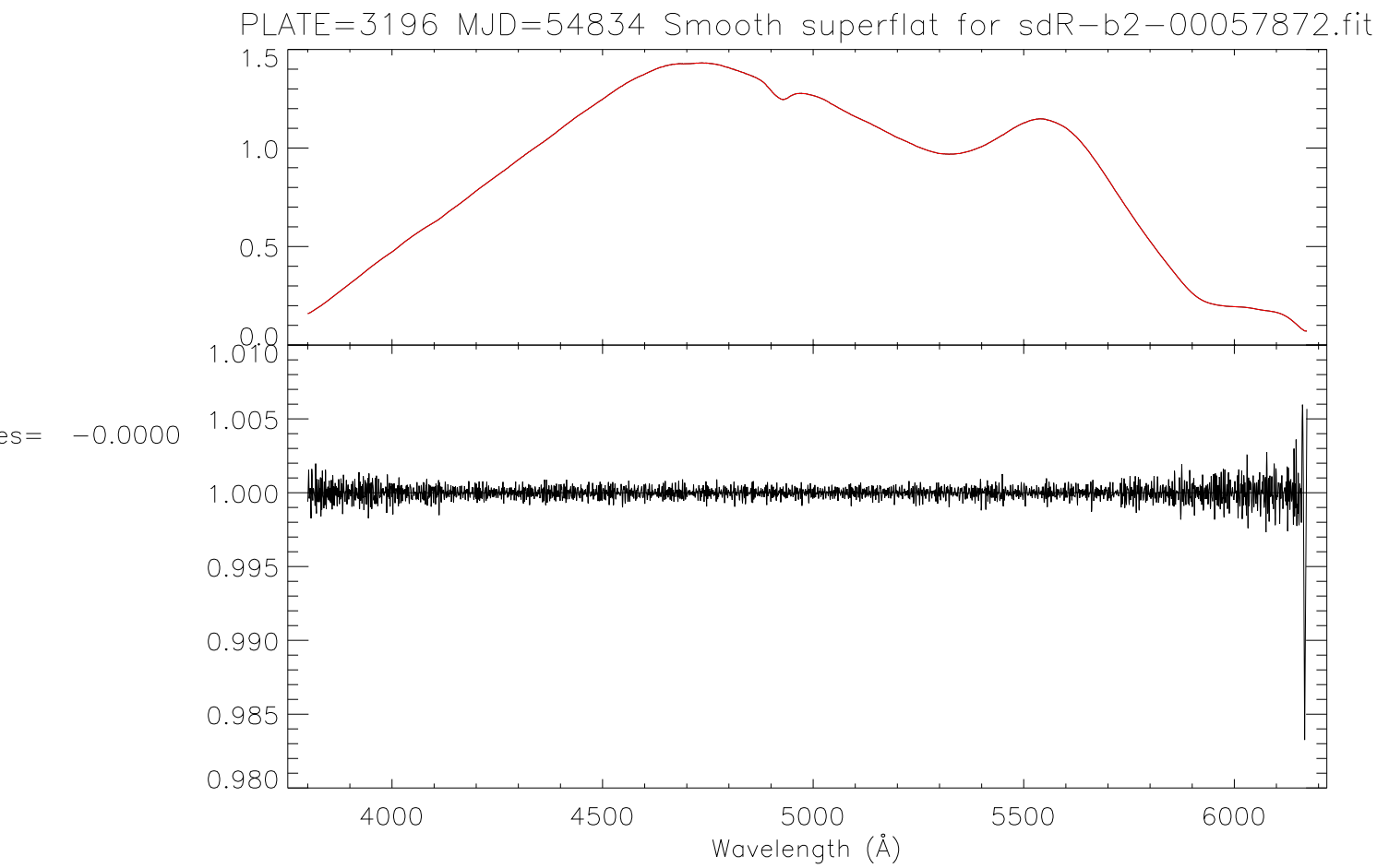

5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

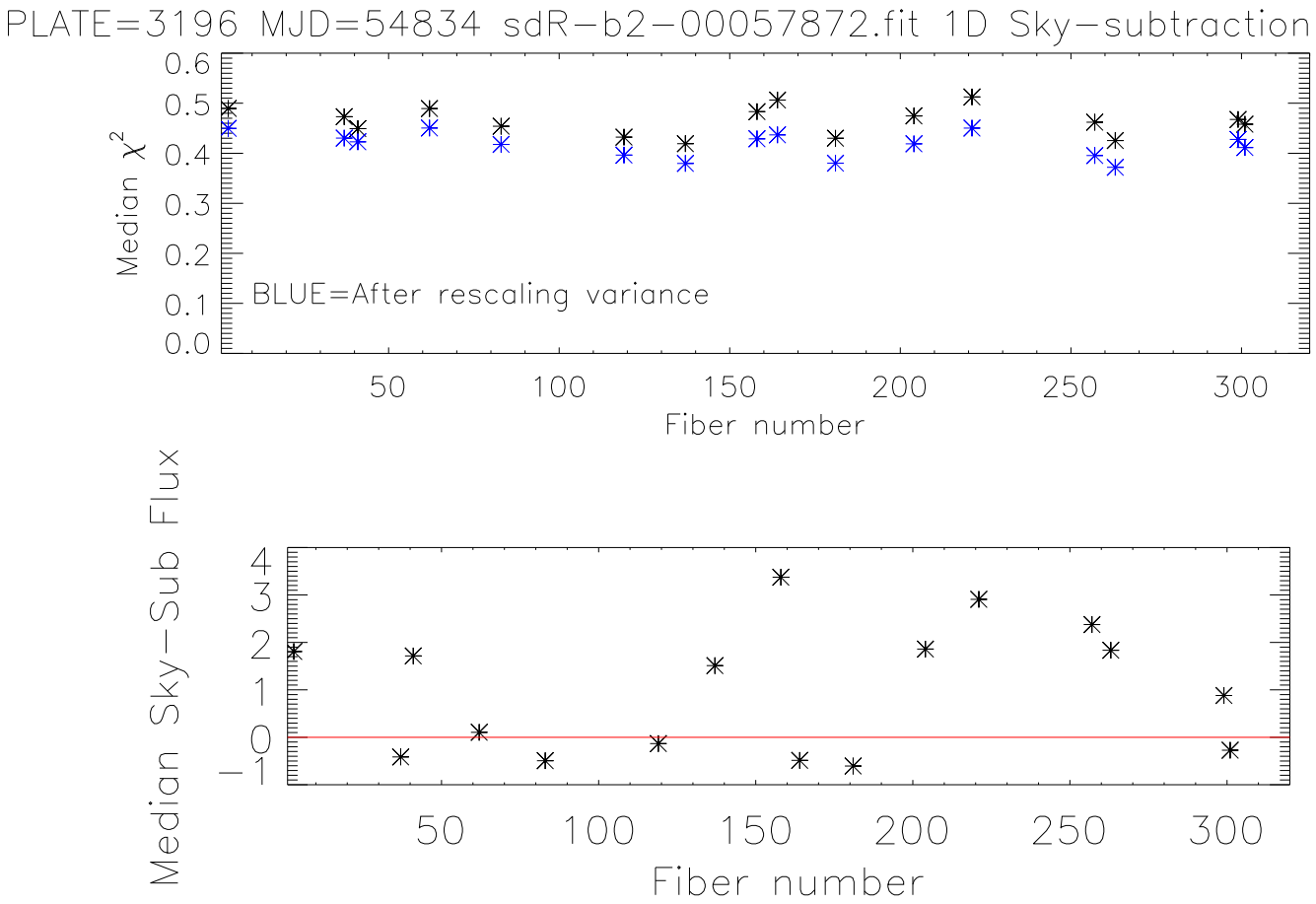

5889.9500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

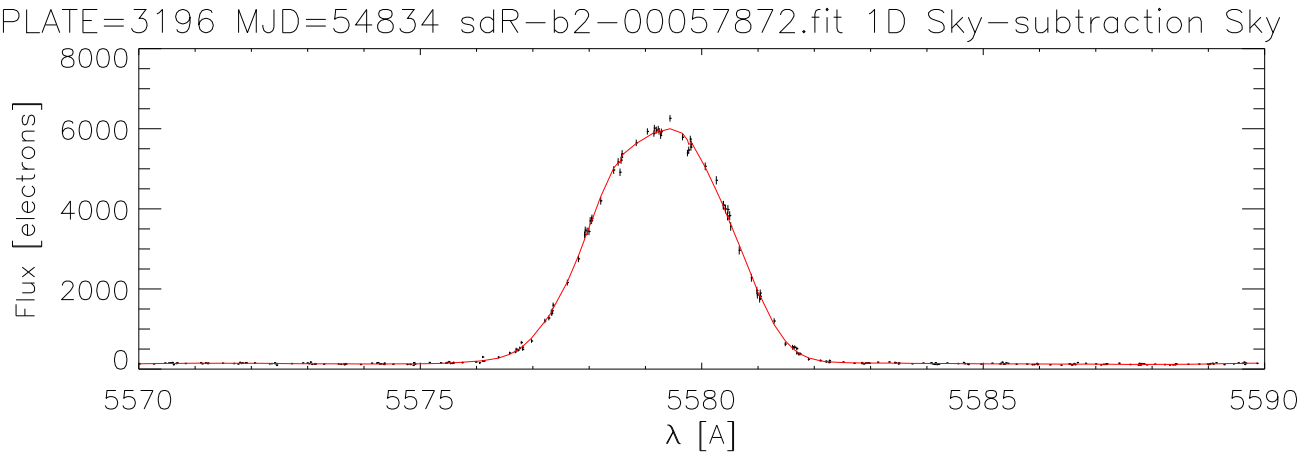

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

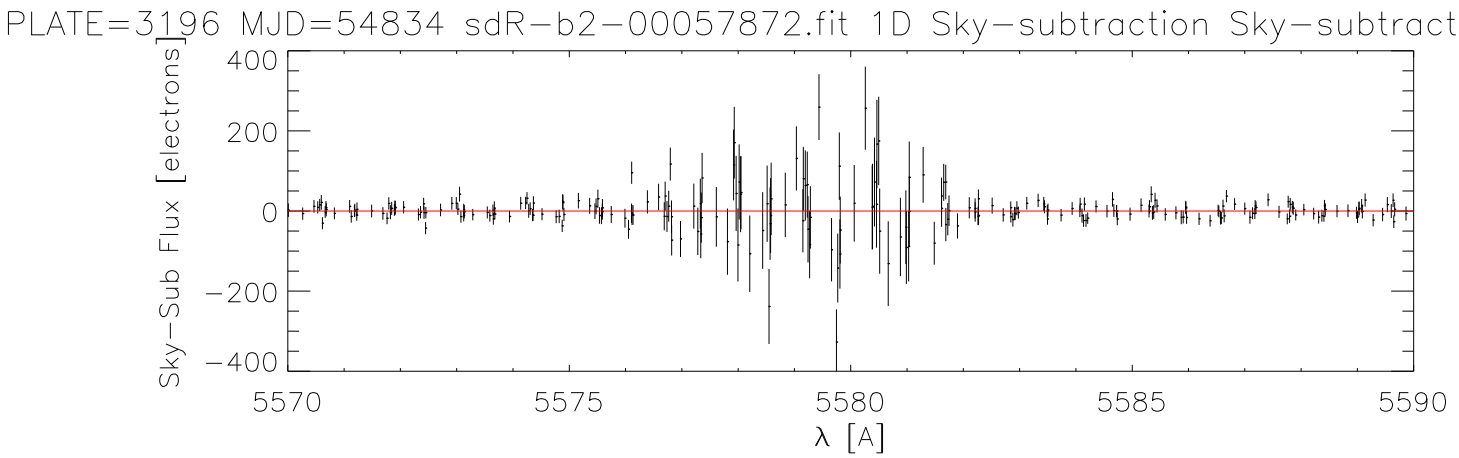

4046.5600
nfib1 16
nfib2 16
stdev 0.146
extra −0.06
4358.3300
nfib1 16
nfib2 16
stdev 0.071
extra −0.07
5460.9400
nfib1 16
nfib2 16
stdev 0.041
extra −0.02
5577.3390
nfib1 16
nfib2 16
stdev 0.009
extra 0.05
5889.9500
nfib1 15
nfib2 16
stdev 0.015
extra 0.16
5895.9240
nfib1 16
nfib2 16
stdev 0.040
extra 0.14
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

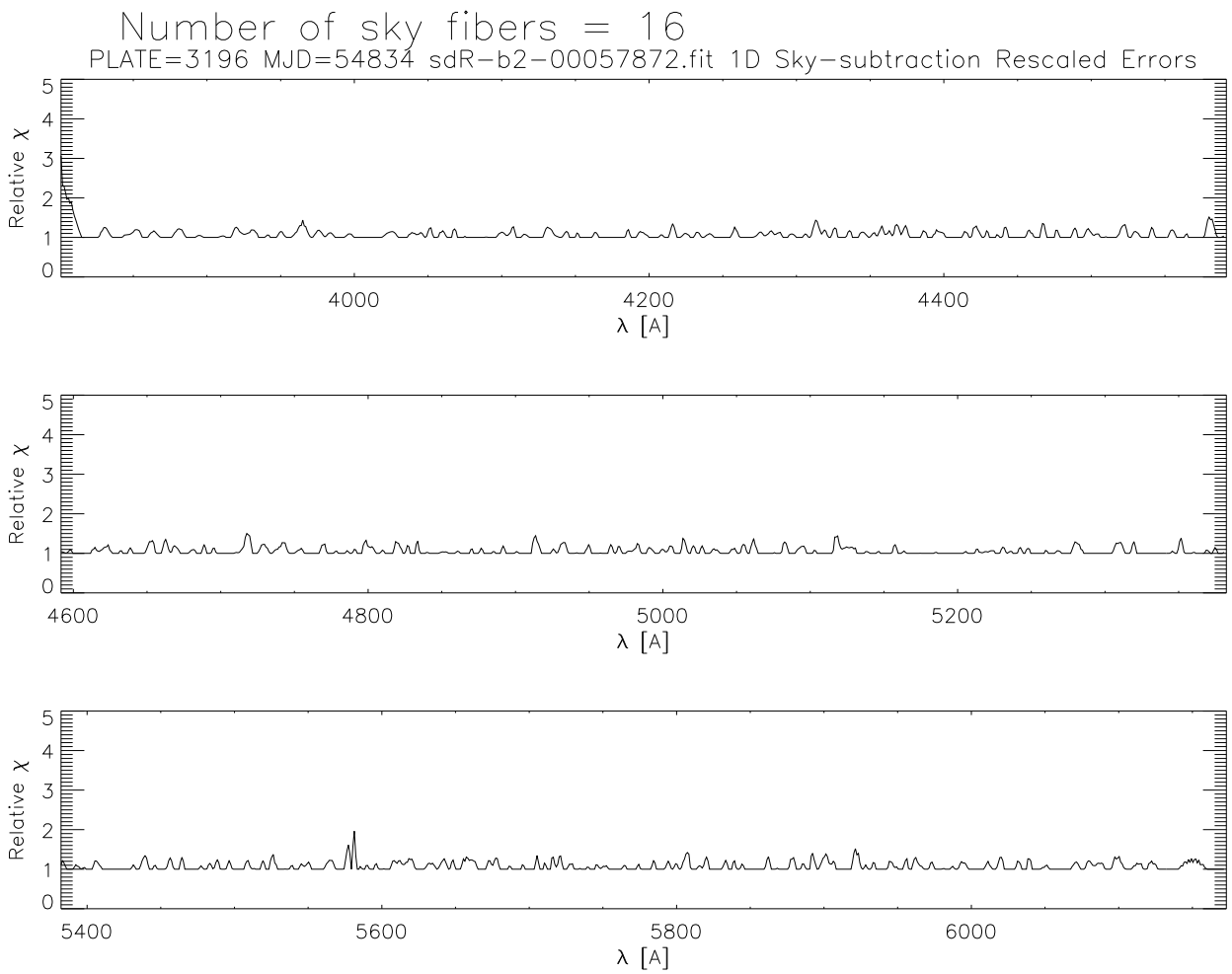

sky shift, pixels
0.1
0.0
−0.1
−0.2
3500
4000
4500
5000
5500
6000
6500

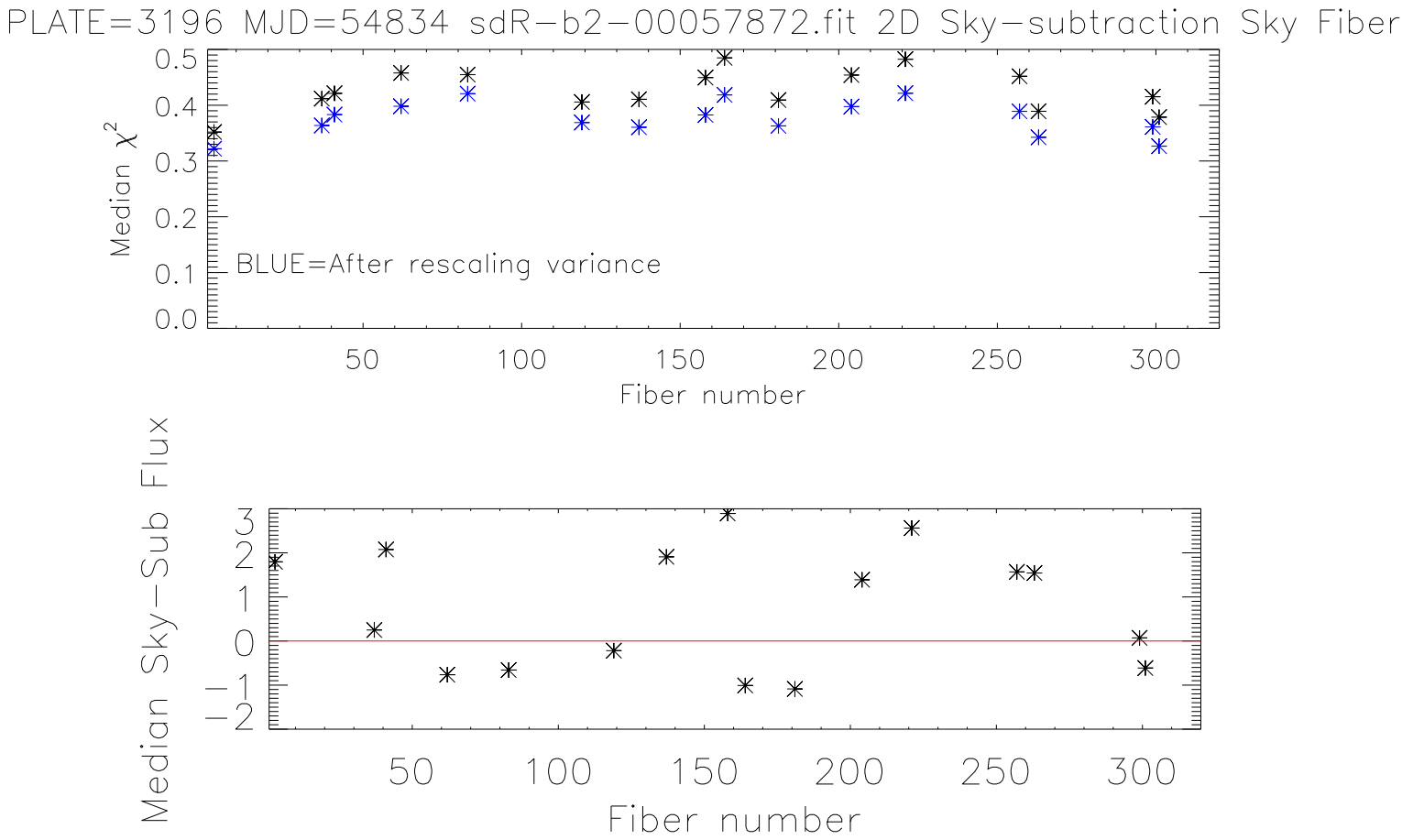

PLATE=3196 MJD=54834 Smooth superflat for sdR-b2-00057872.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
0.980
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

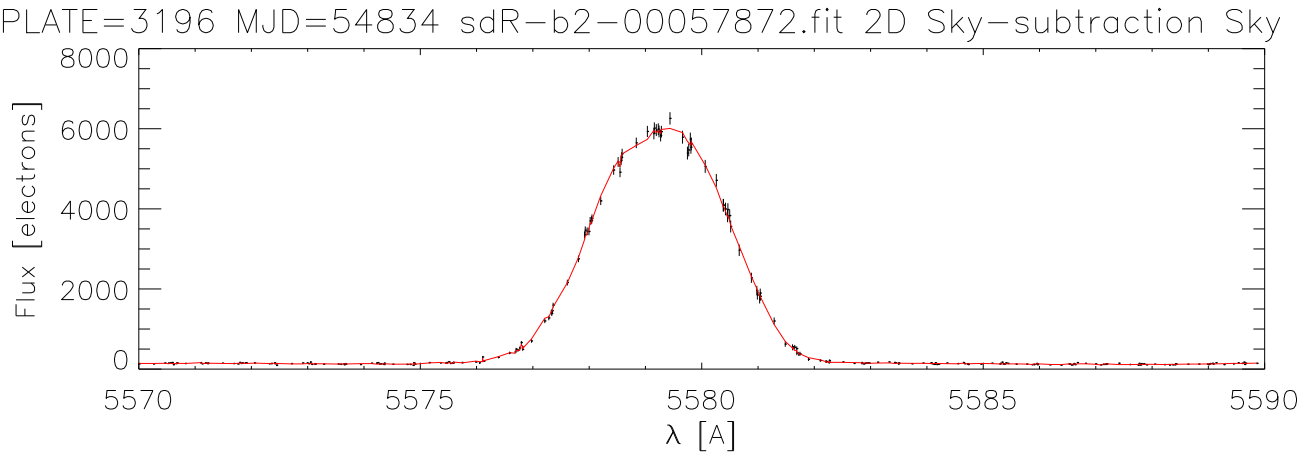

PLATE=3196 MJD=54834 sdR-b2-00057872.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

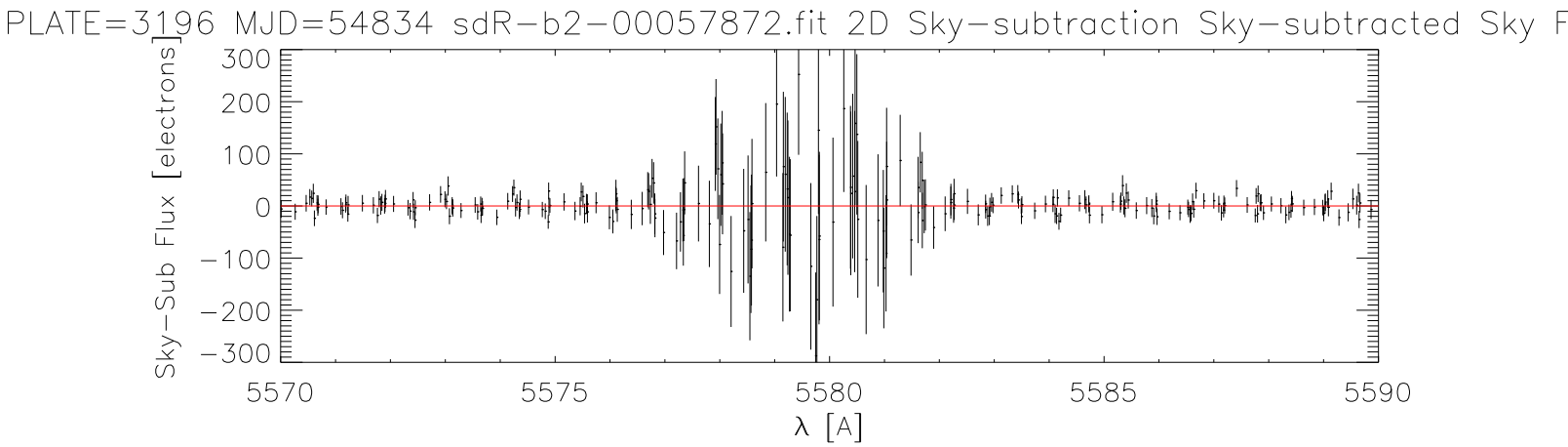

PLATE=3196 MJD=54834 sdR-b2-00057872.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

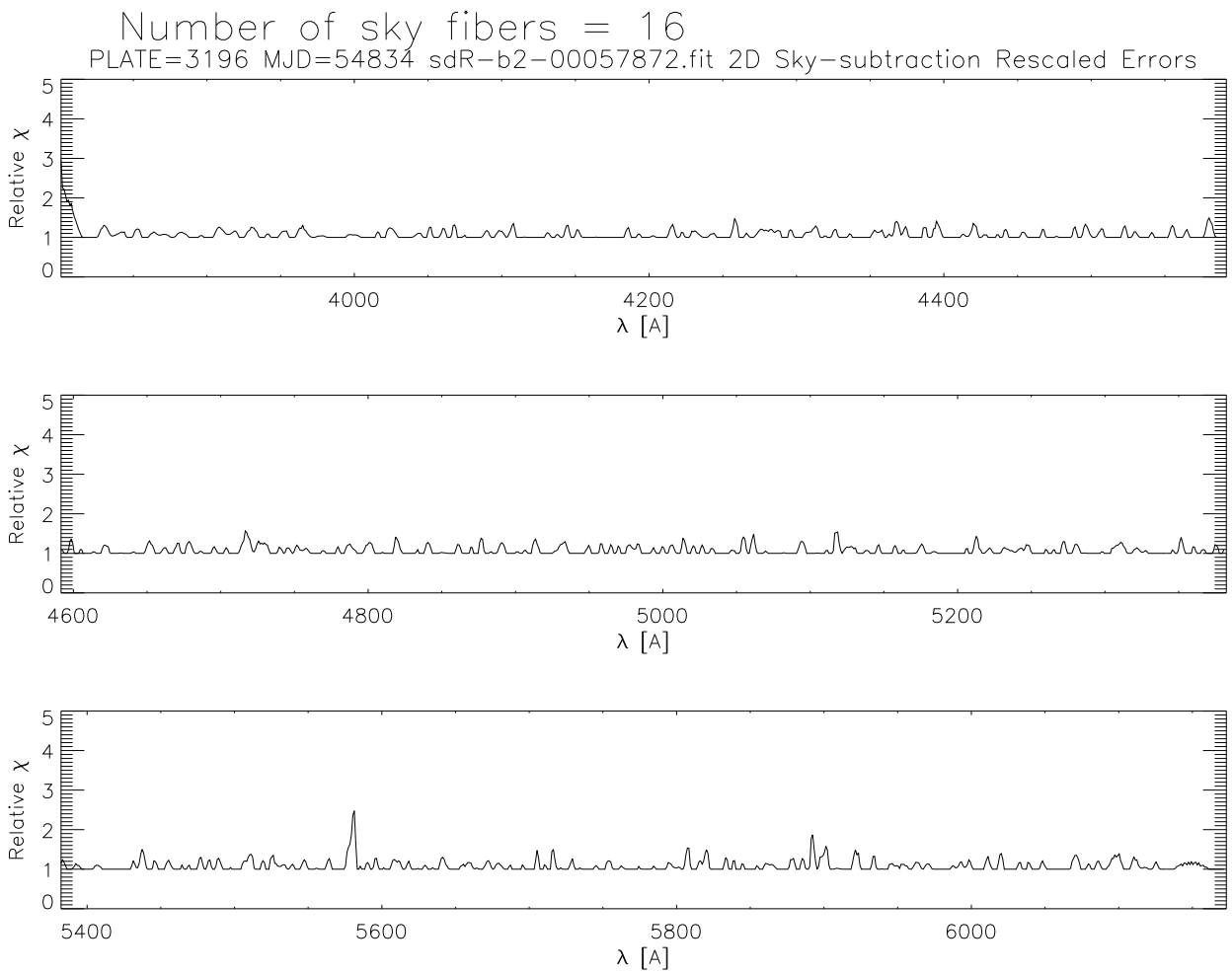

PLATE=3196 MJD=54834 sdR-b2-00057872.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

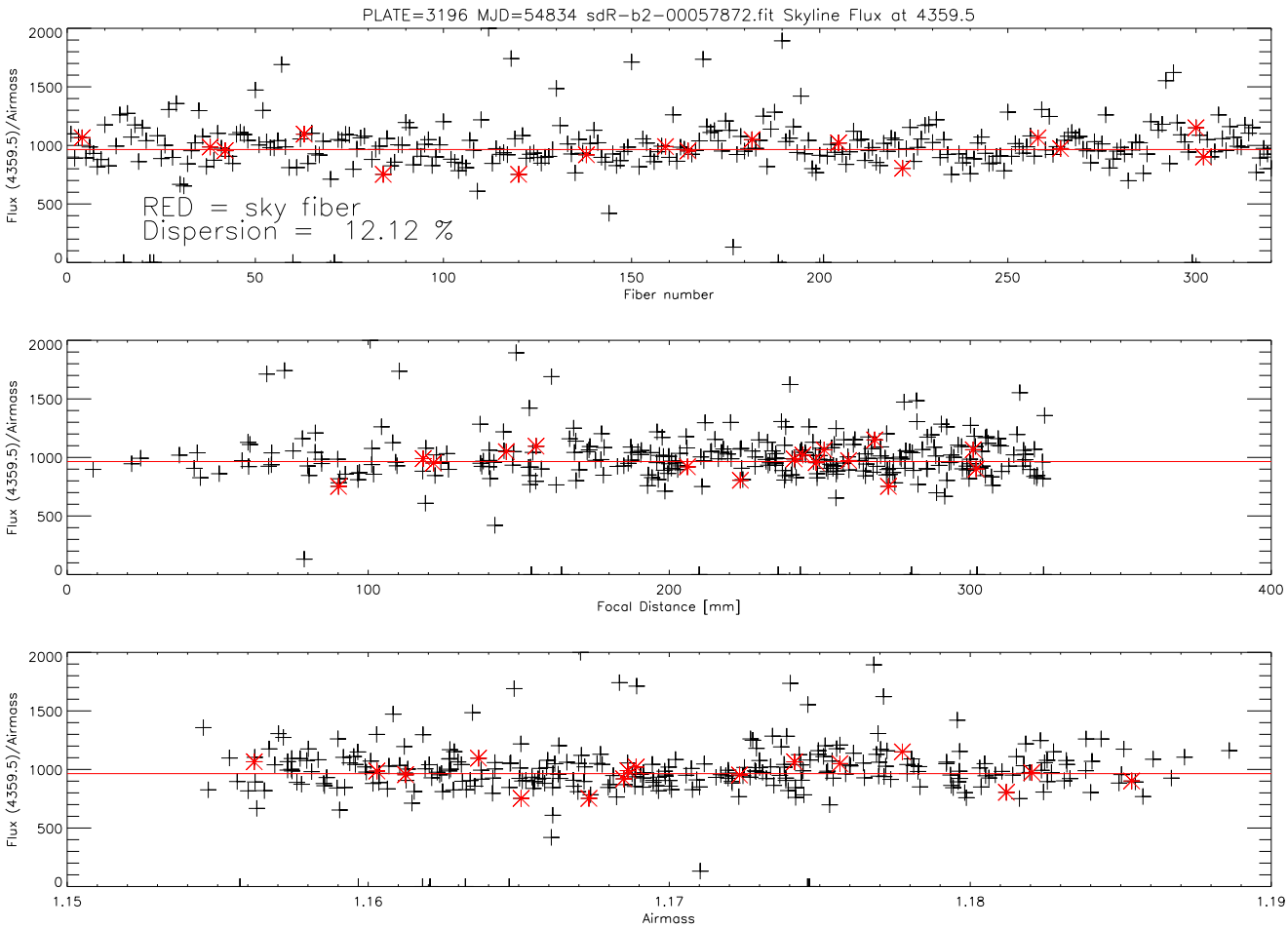

Number of sky fibers = 16
PLATE=3196 MJD=54834 sdR-b2-00057872.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

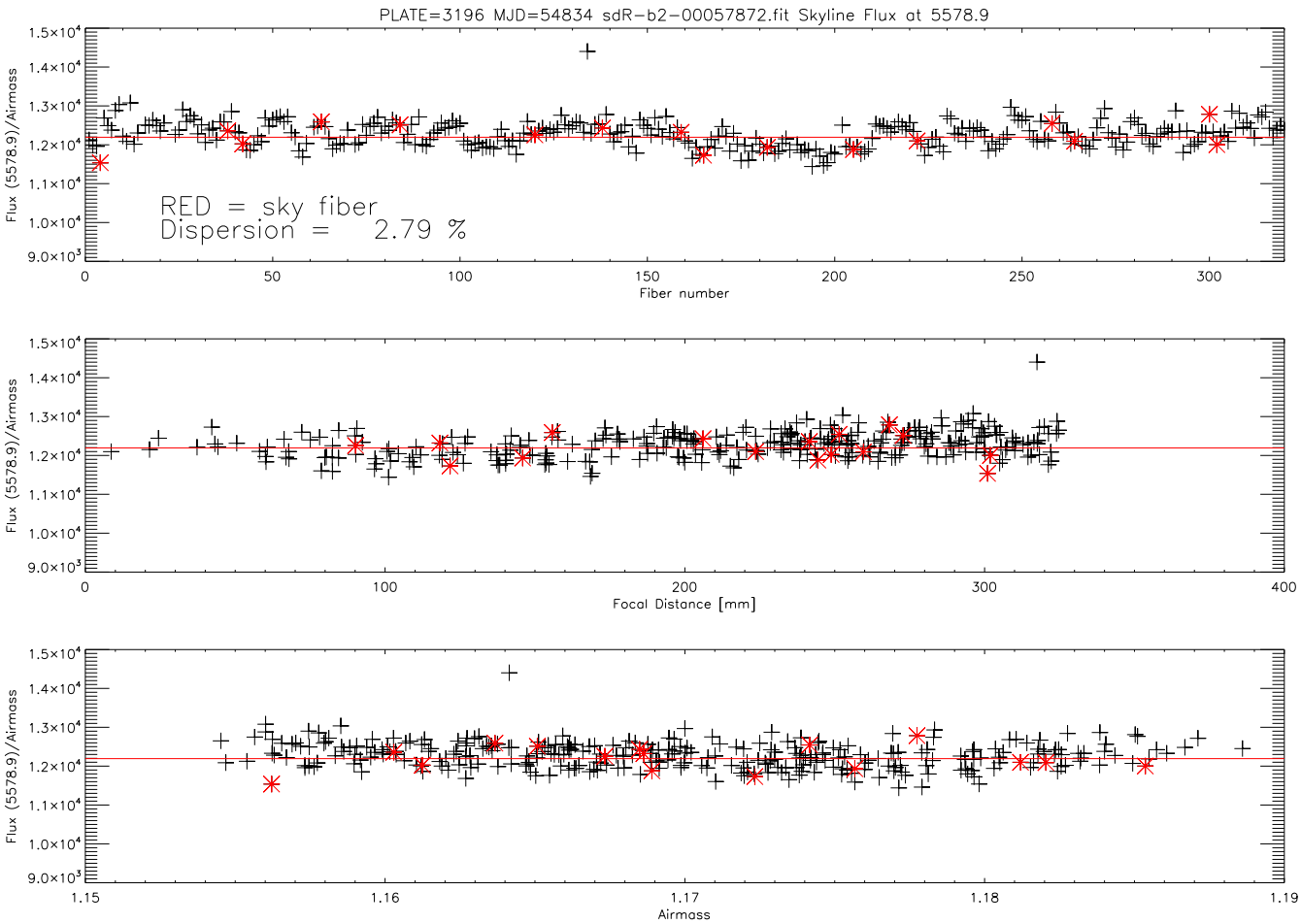

PLATE=3196 MJD=54834 sdR-b2-00057872.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

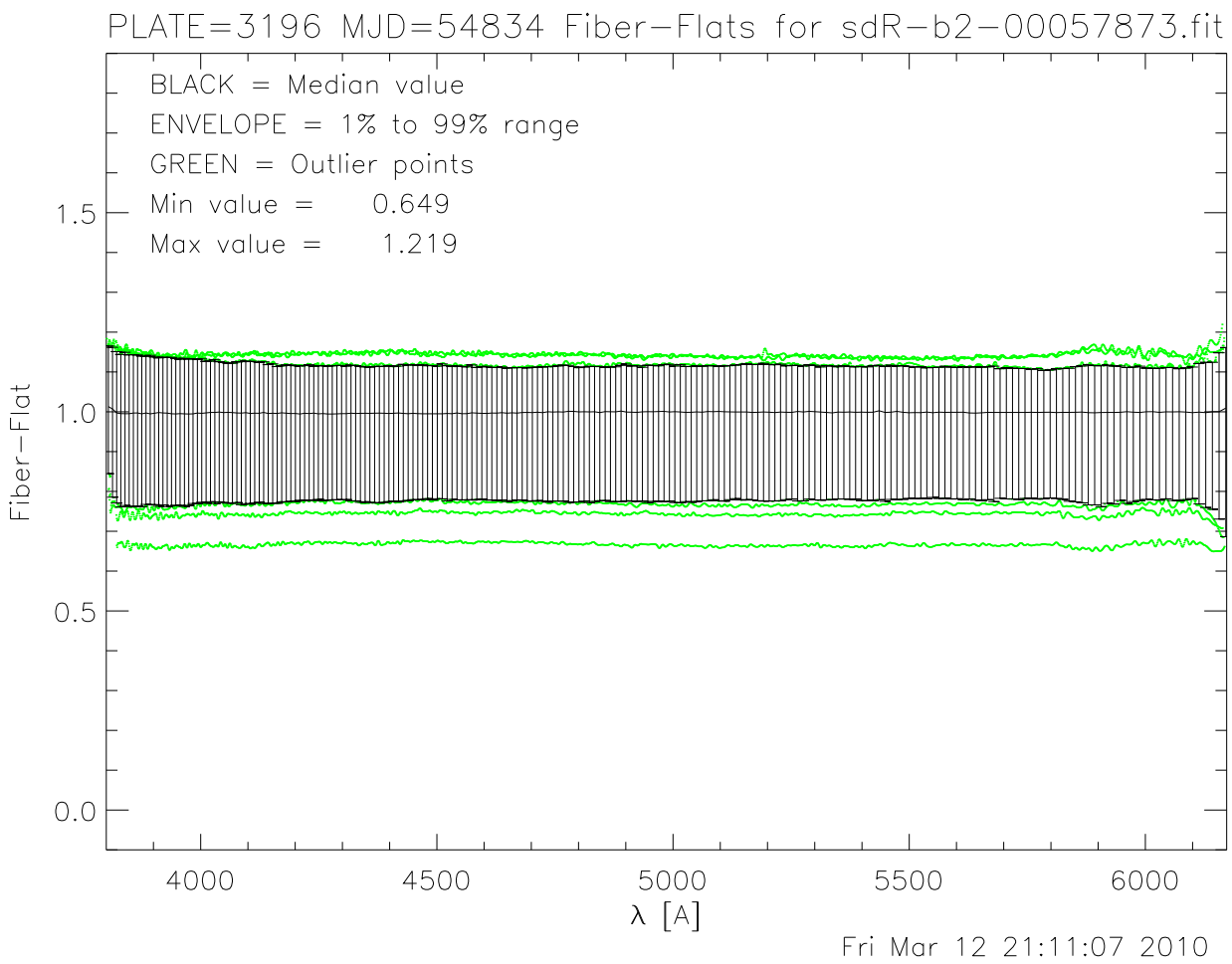

PLATE=3196 MJD=54834 sdR-b2-00057872.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

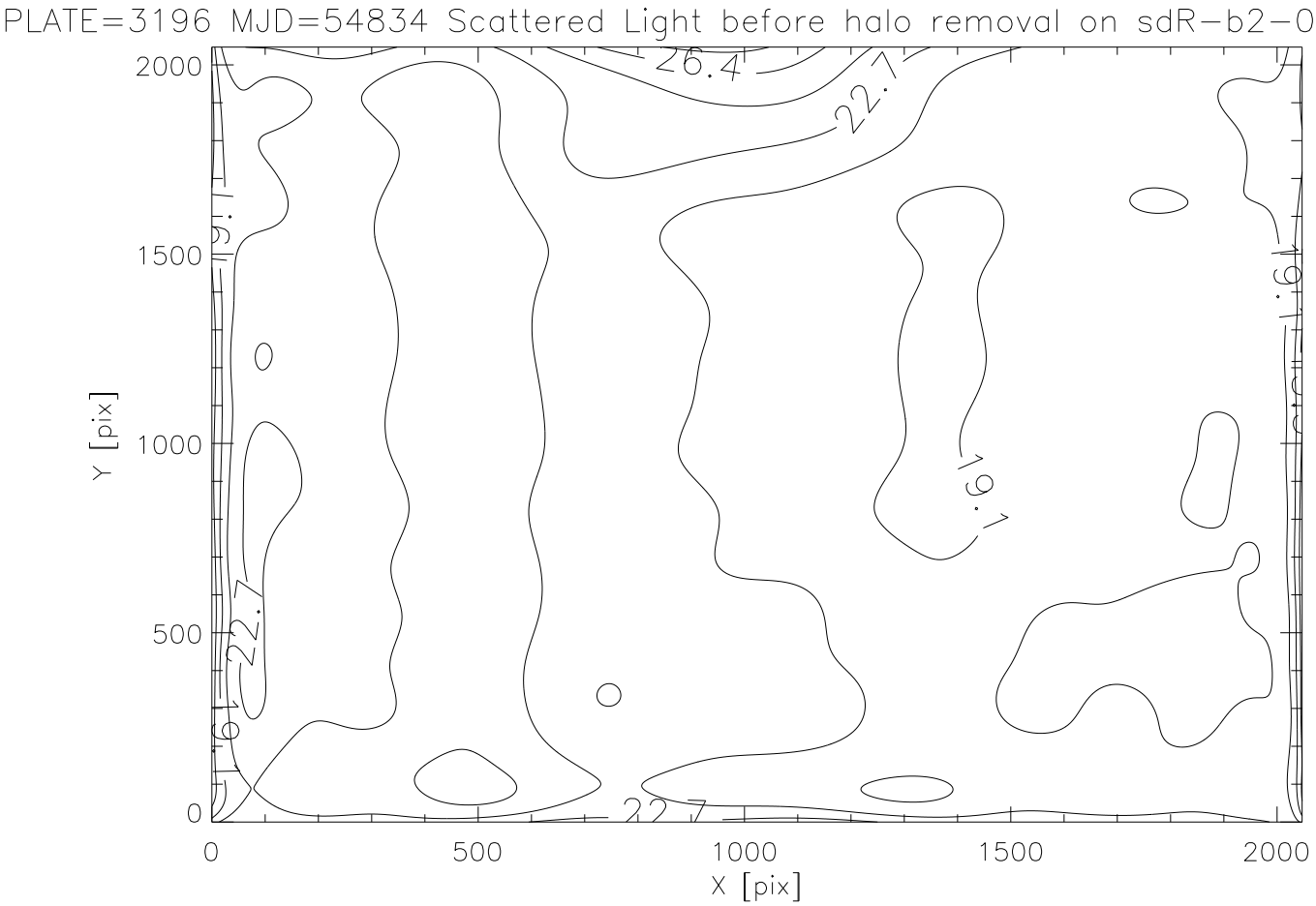

PLATE=3196 MJD=54834 sdR-b2-00057872.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

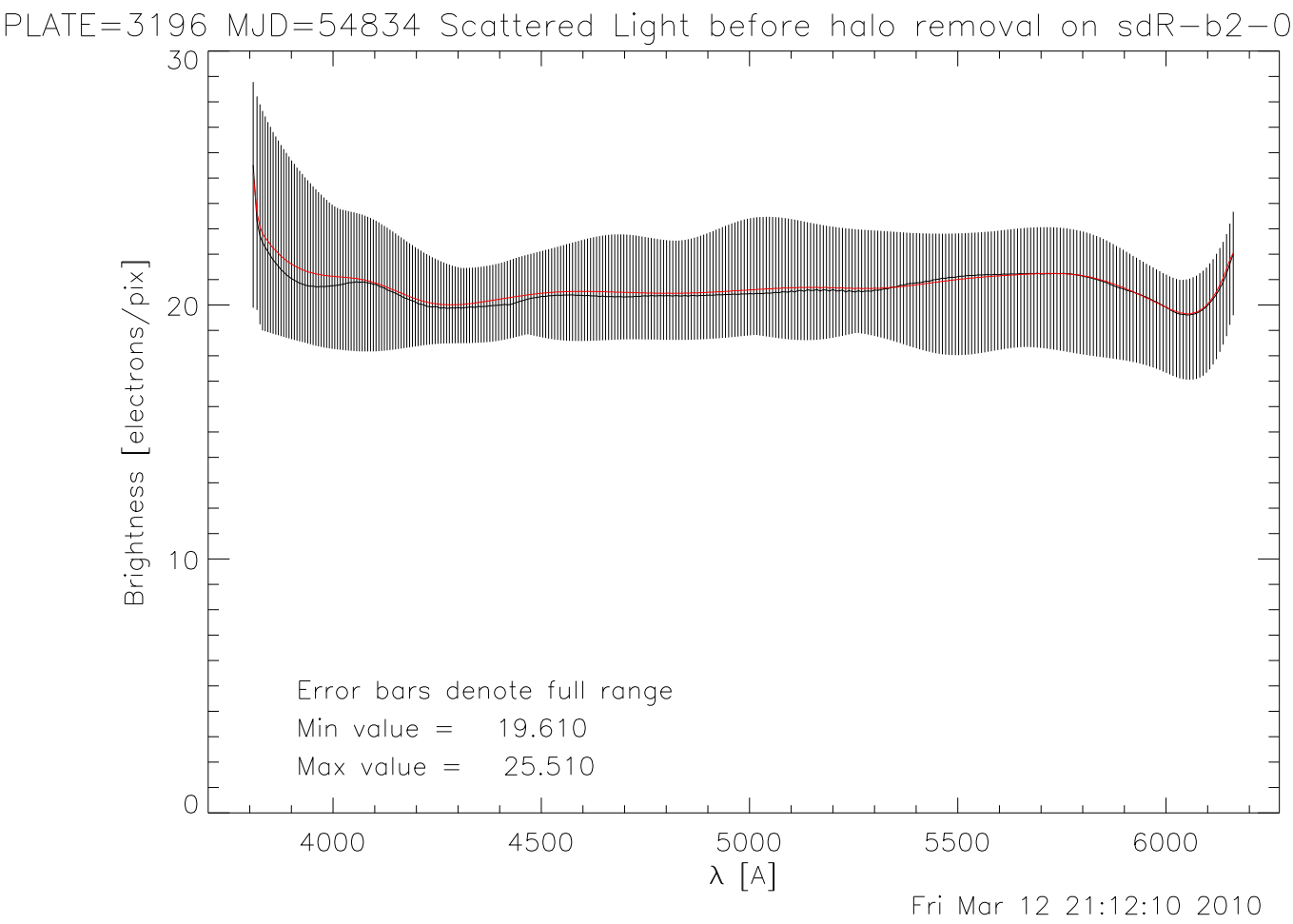

Number of sky fibers = 16
PLATE=3196 MJD=54834 sdR-b2-00057872.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

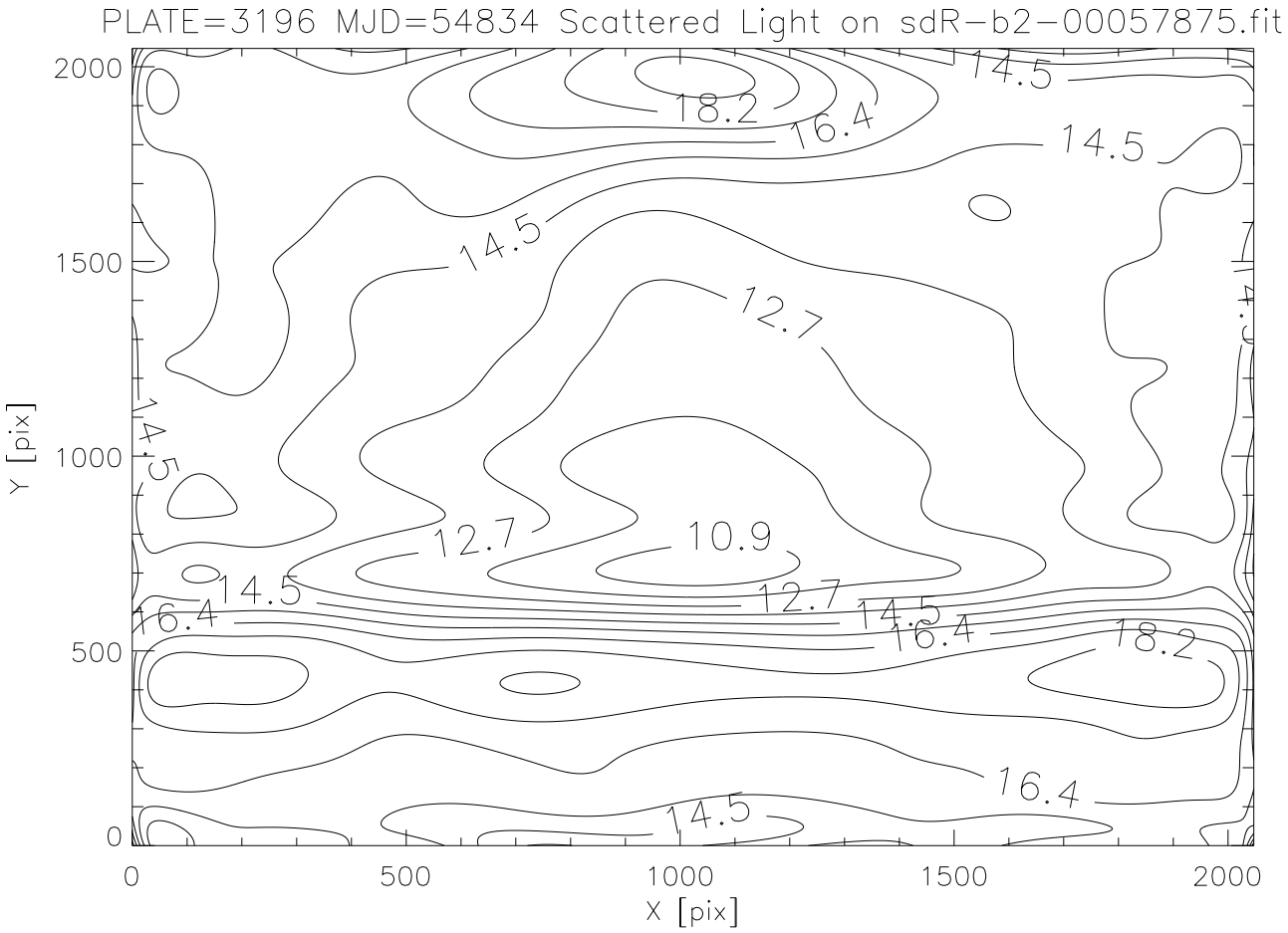

PLATE=3196 MJD=54834 sdR-b2-00057872.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 12.12 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

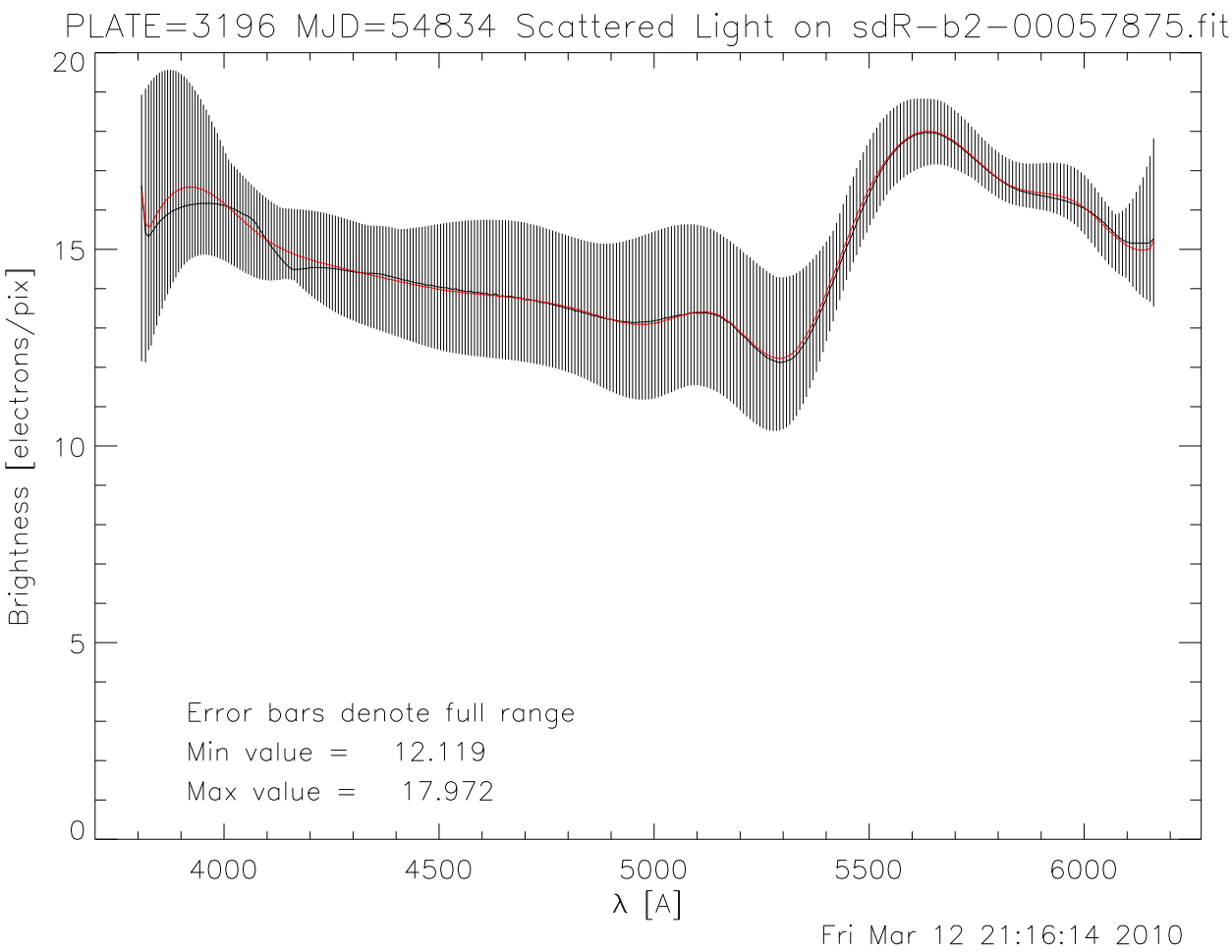

PLATE=3196 MJD=54834 sdR-b2-00057872.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.79 %
Fiber number
Focal Distance [mm]
Airmass

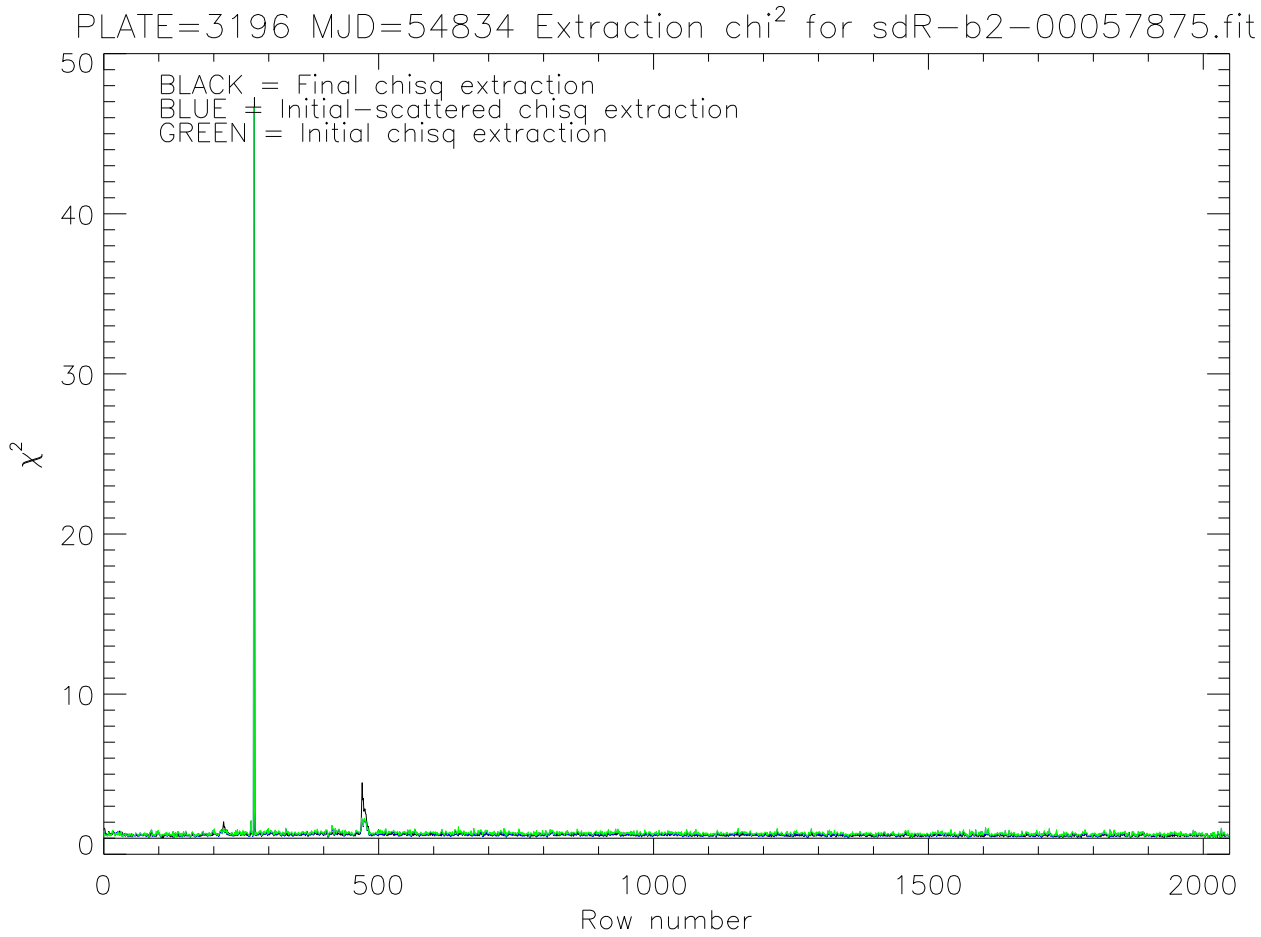

PLATE=3196 MJD=54834 Fiber-Flats for sdR-b2-00057873.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.649
Max value = 1.219
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Fri Mar 12 21:11:07 2010

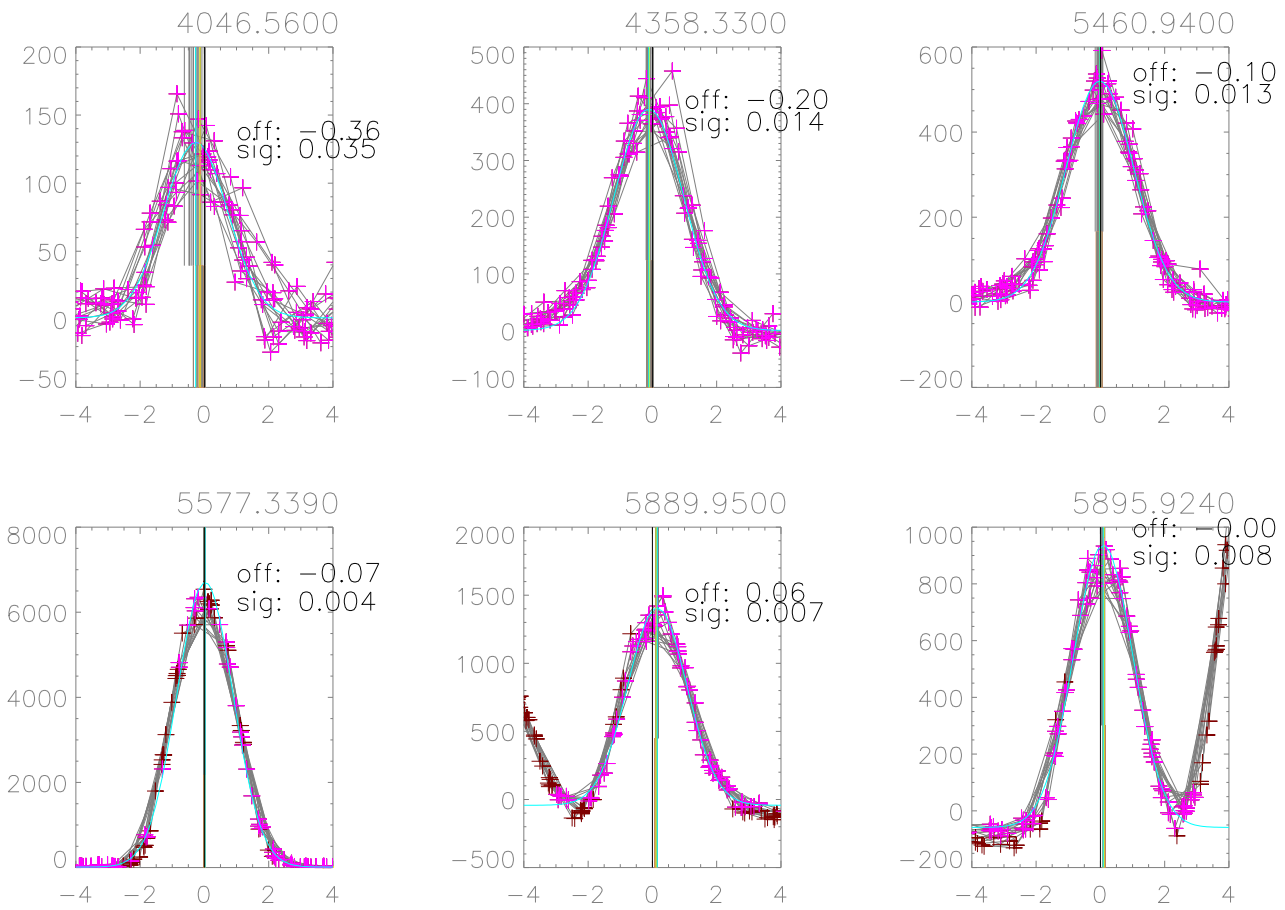

PLATE=3196 MJD=54834 Scattered Light before halo removal on sdR-b2-00057875.f
26.4
22.7
19.1
16.1
0
22.7
19.1
16.1
22.7
0
500
1000
1500
2000
Y [pix]
X [pix]

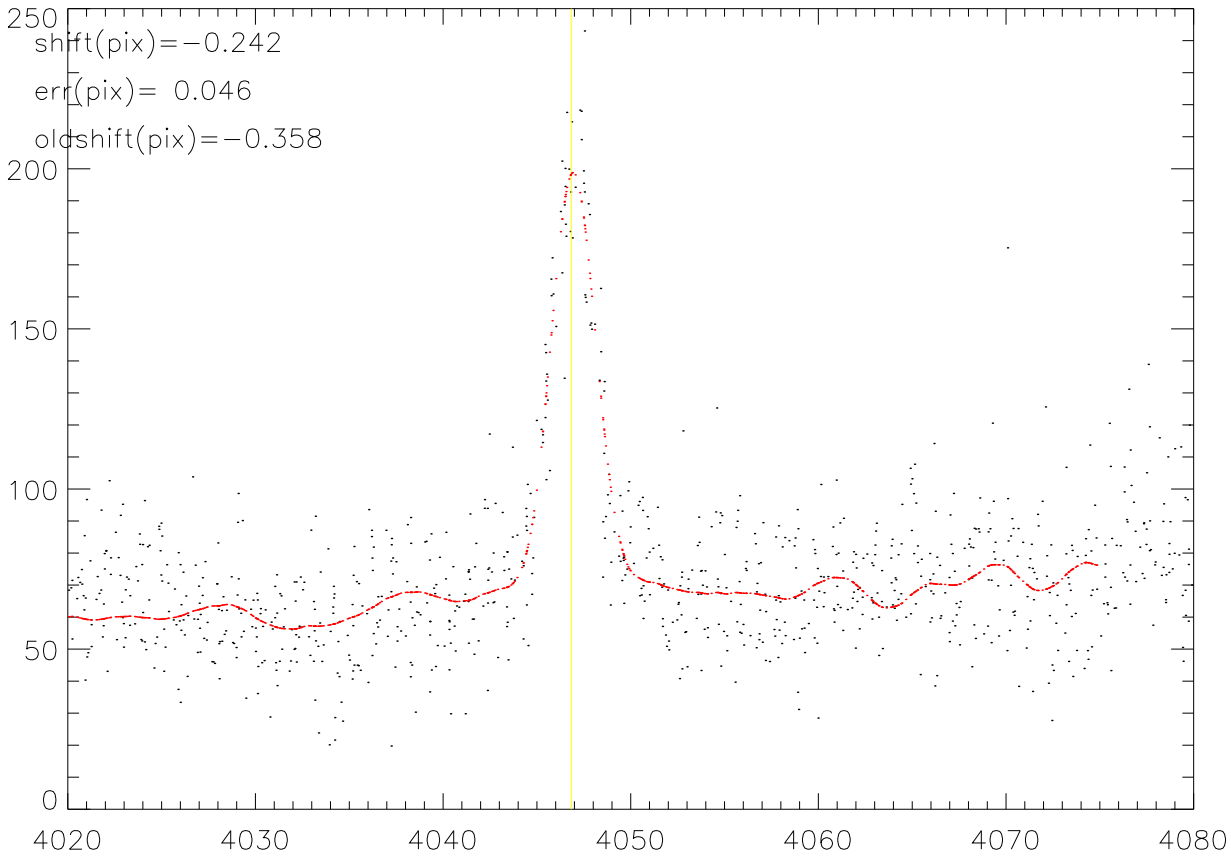

PLATE=3196 MJD=54834 Scattered Light before halo removal on sdR-b2-00057875.f
Brightness [electrons/pix]
30
20
10
0
Error bars denote full range
Min value = 19.610
Max value = 25.510
4000
4500
5000
5500
6000
λ [A]
Fri Mar 12 21:12:10 2010

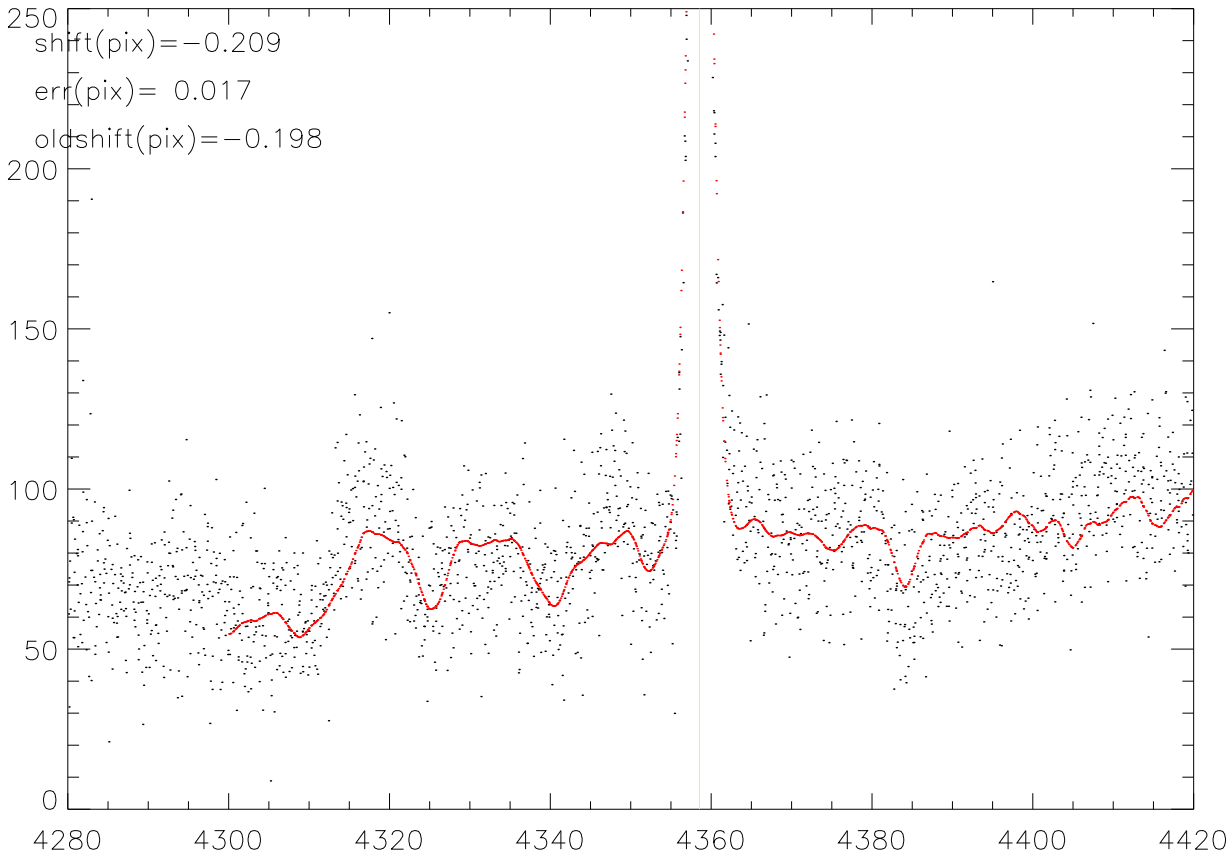

PLATE=3196 MJD=54834 Scattered Light on sdR-b2-00057875.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
18.2
16.4
14.5
12.7
10.9

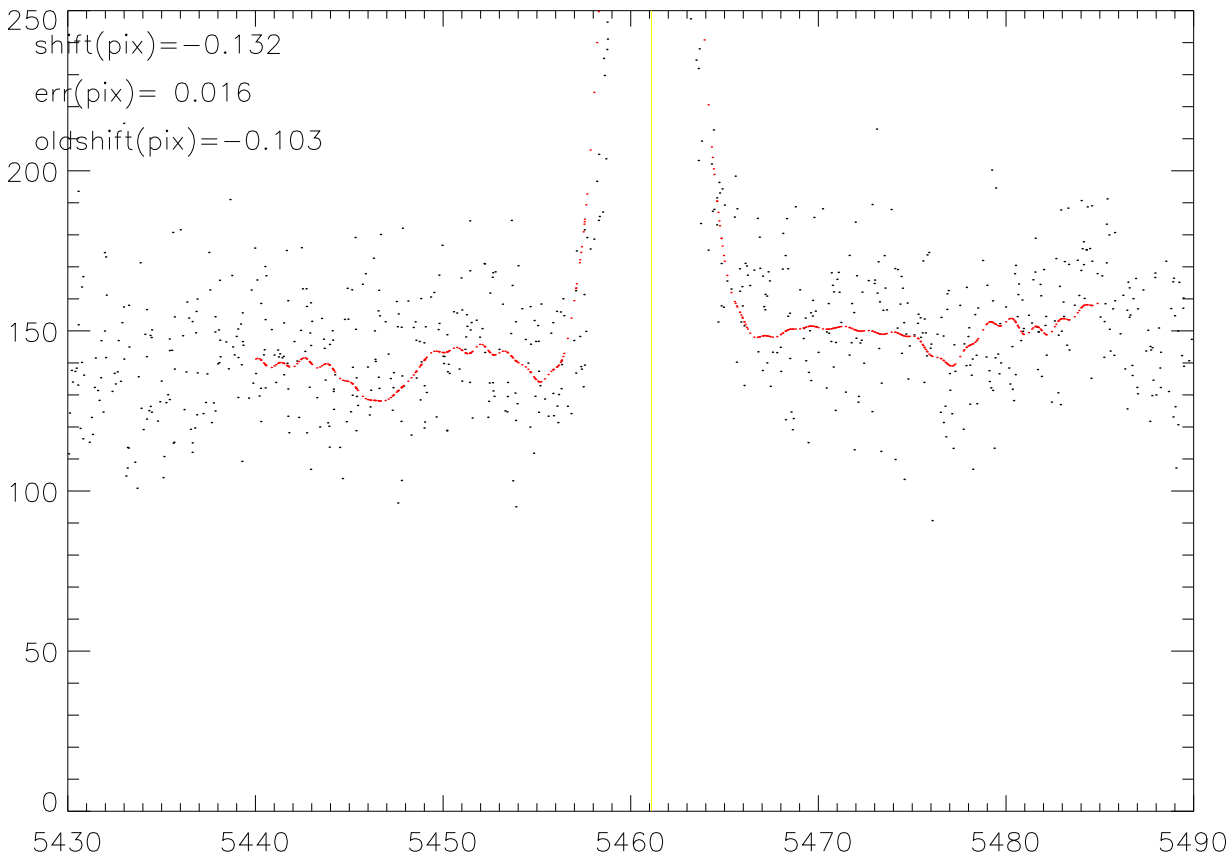

PLATE=3196 MJD=54834 Scattered Light on sdR-b2-00057875.fit
Brightness [electrons/pix]
20
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 12.119
Max value = 17.972
Fri Mar 12 21:16:14 2010

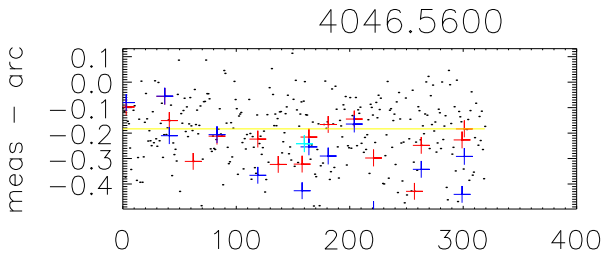

PLATE=3196 MJD=54834 Extraction chi^2 for sdR-b2-00057875.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
10
20
30
40
50
0
500
1000
1500
2000
Row number

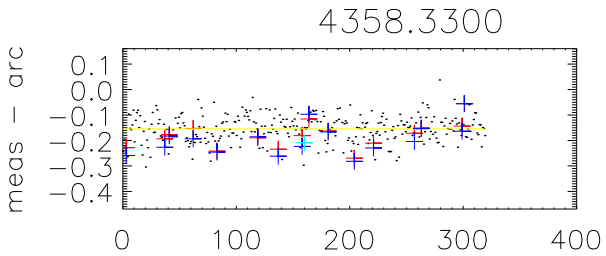

4046.5600
off: −0.36
sig: 0.035
4358.3300
off: −0.20
sig: 0.014
5460.9400
off: −0.10
sig: 0.013
5577.3390
off: −0.07
sig: 0.004
5889.9500
off: 0.06
sig: 0.007
5895.9240
off: −0.00
sig: 0.008

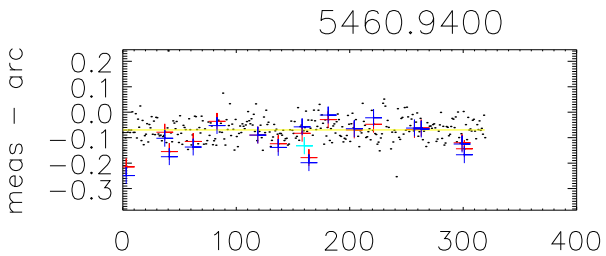

shift(pix)=−0.242
err(pix)= 0.046
oldshift(pix)=−0.358
250
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

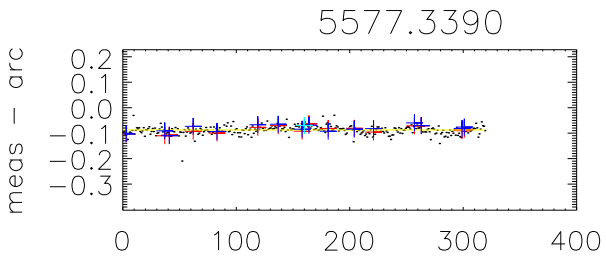

shift(pix)=−0.209
err(pix)= 0.017
oldshift(pix)=−0.198
250
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

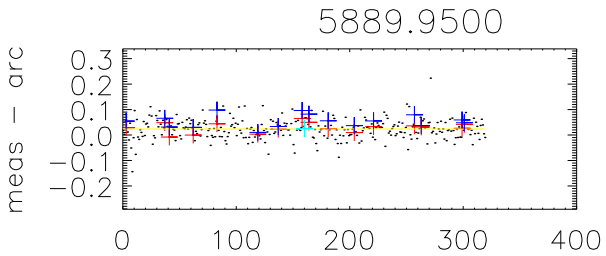

shift(pix)=−0.132
err(pix)= 0.016
oldshift(pix)=−0.103
250
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

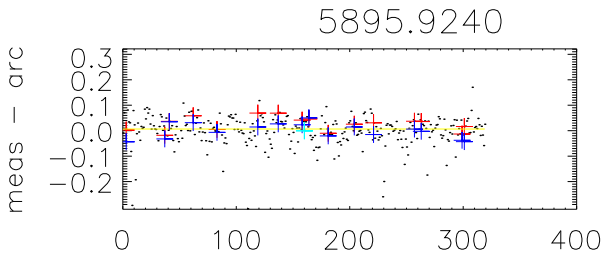

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

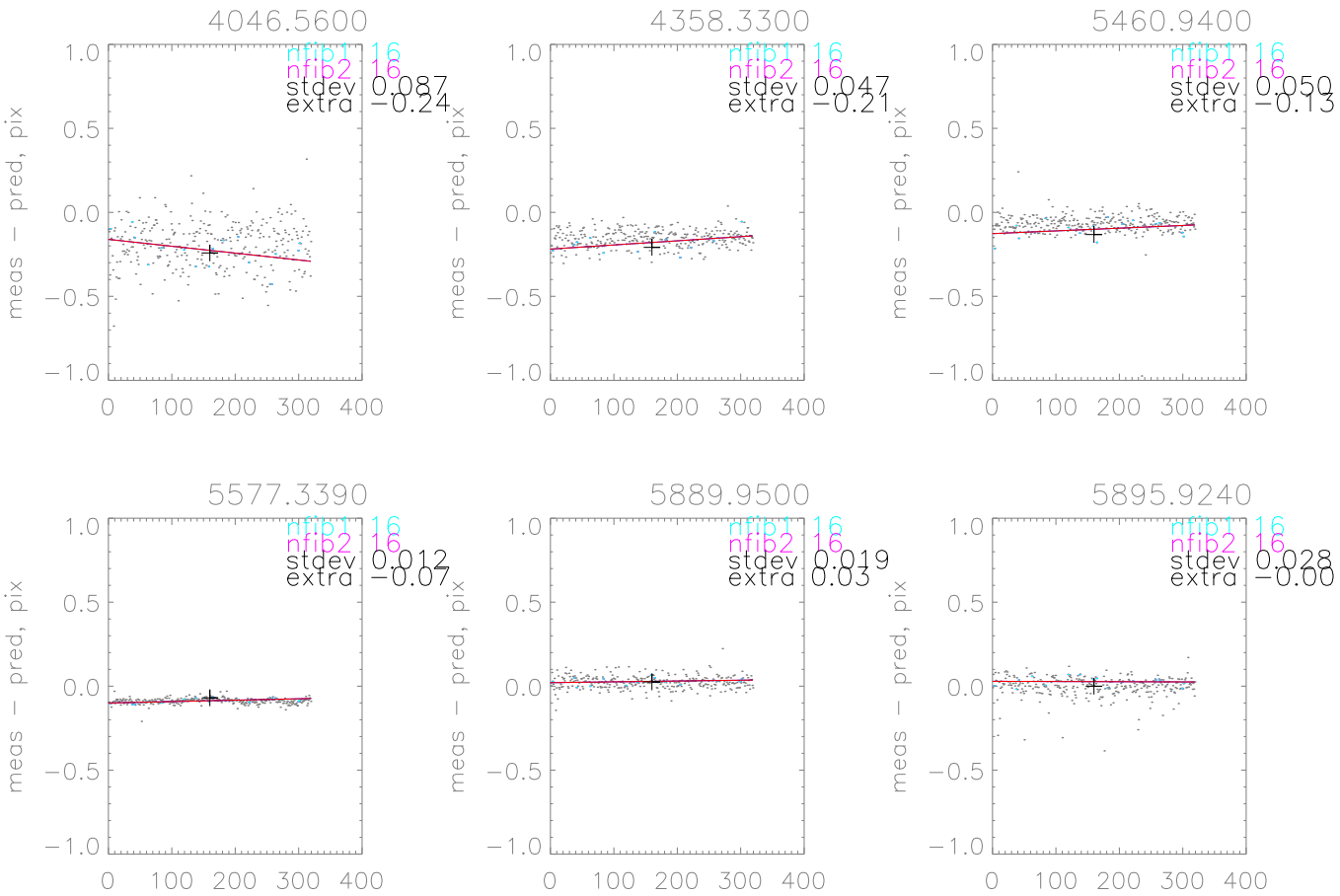

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

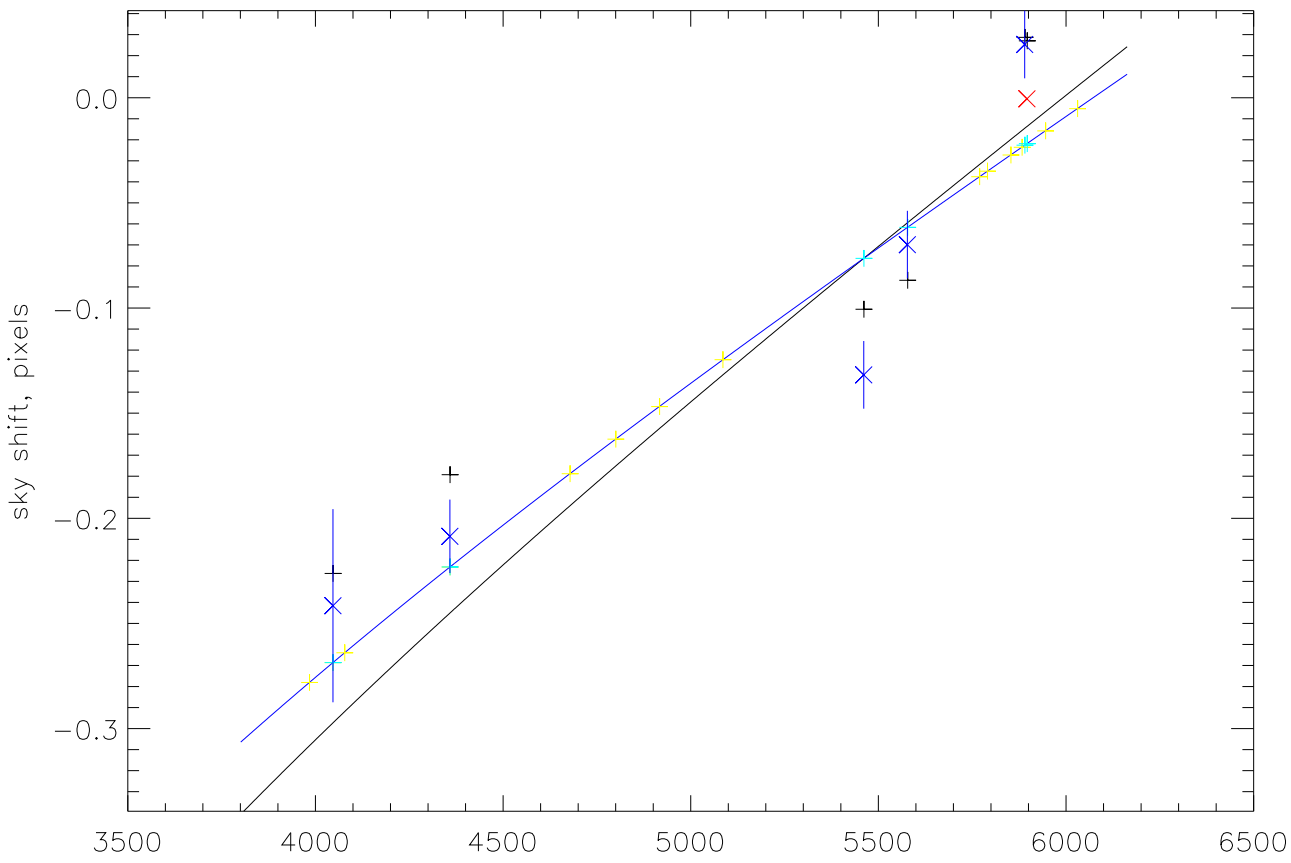

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

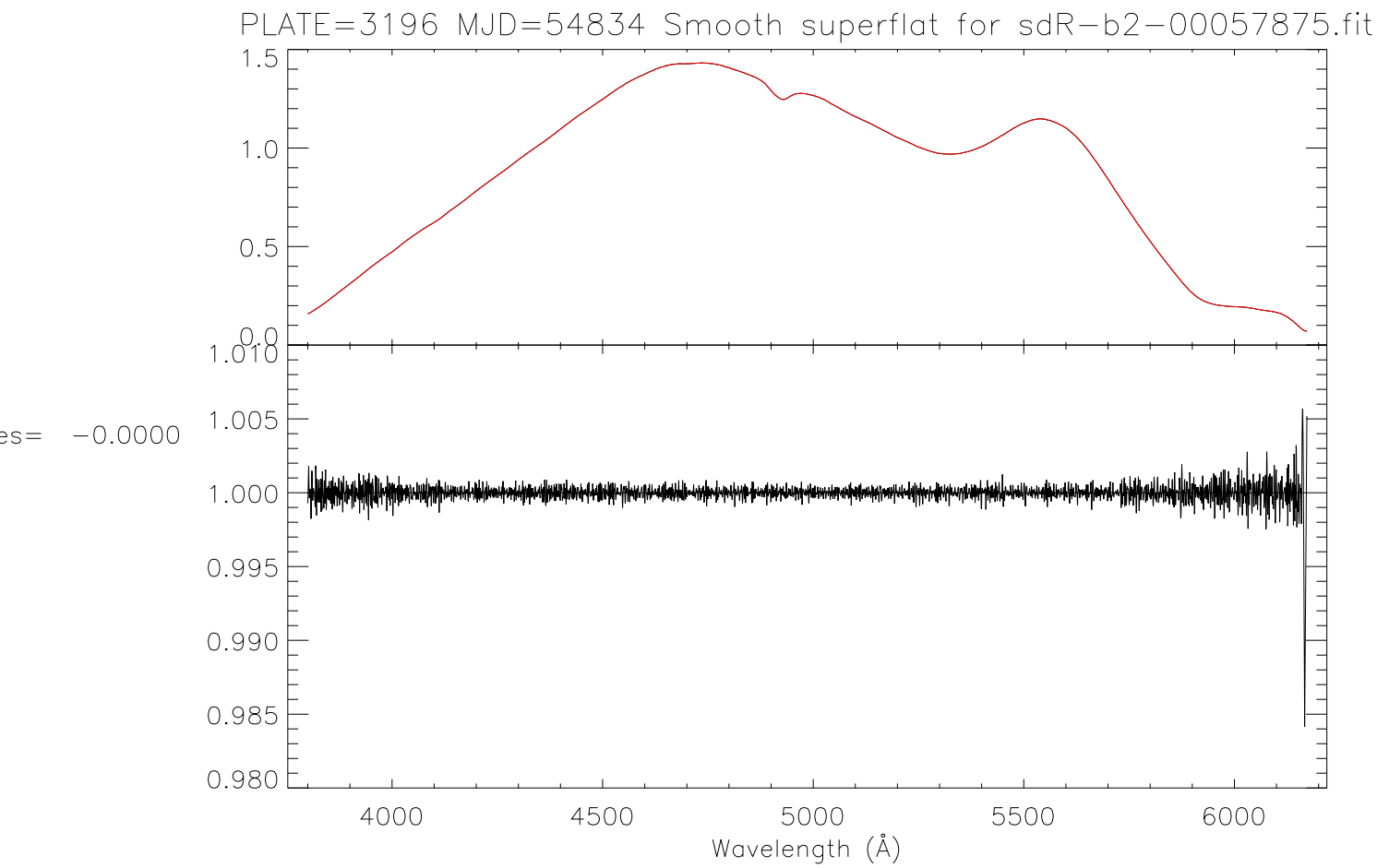

5577.3390
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

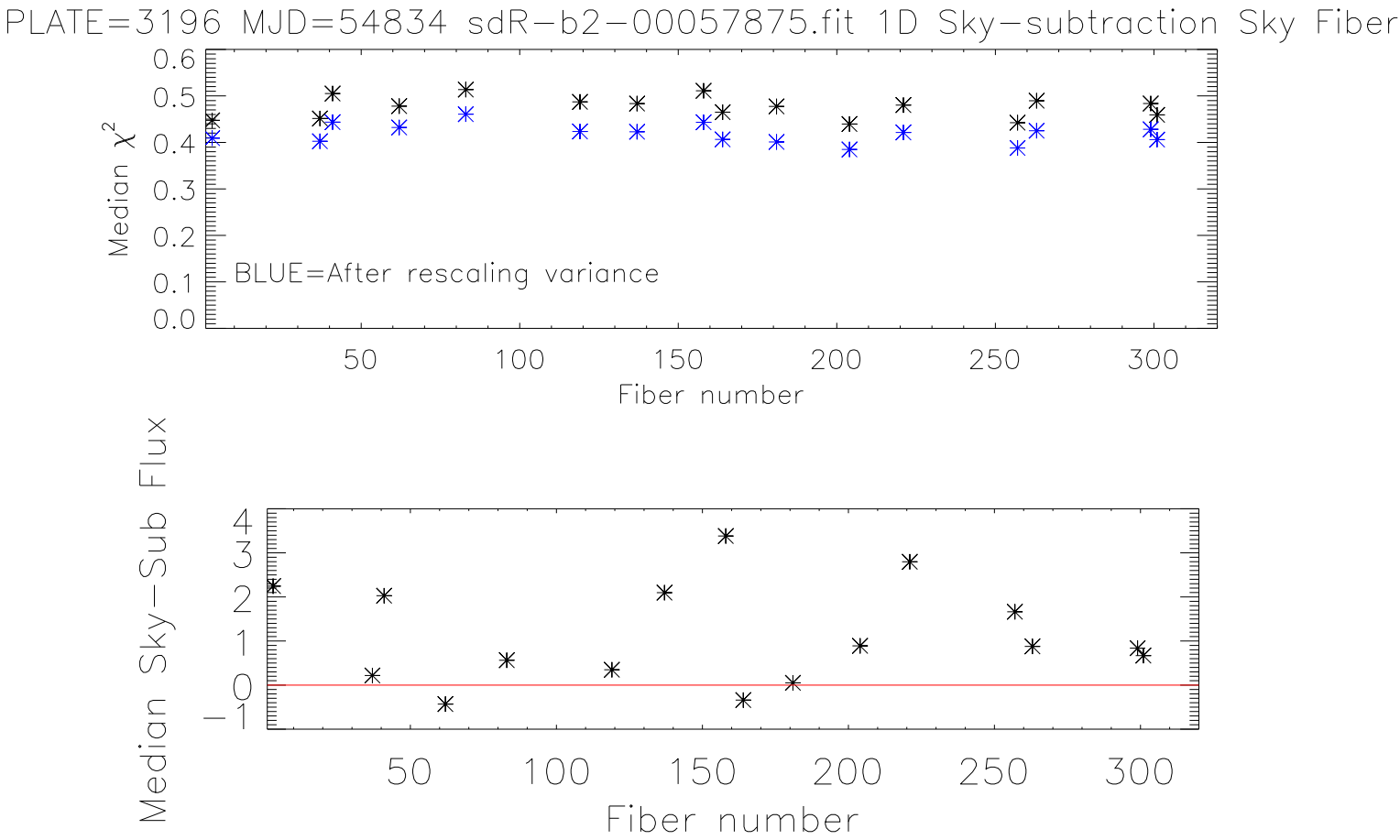

5889.9500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

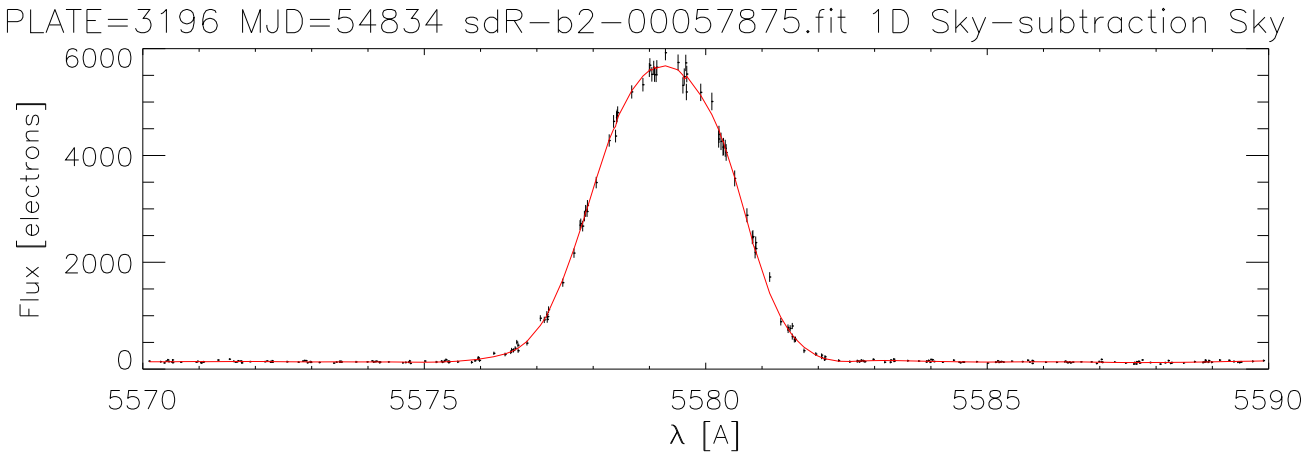

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

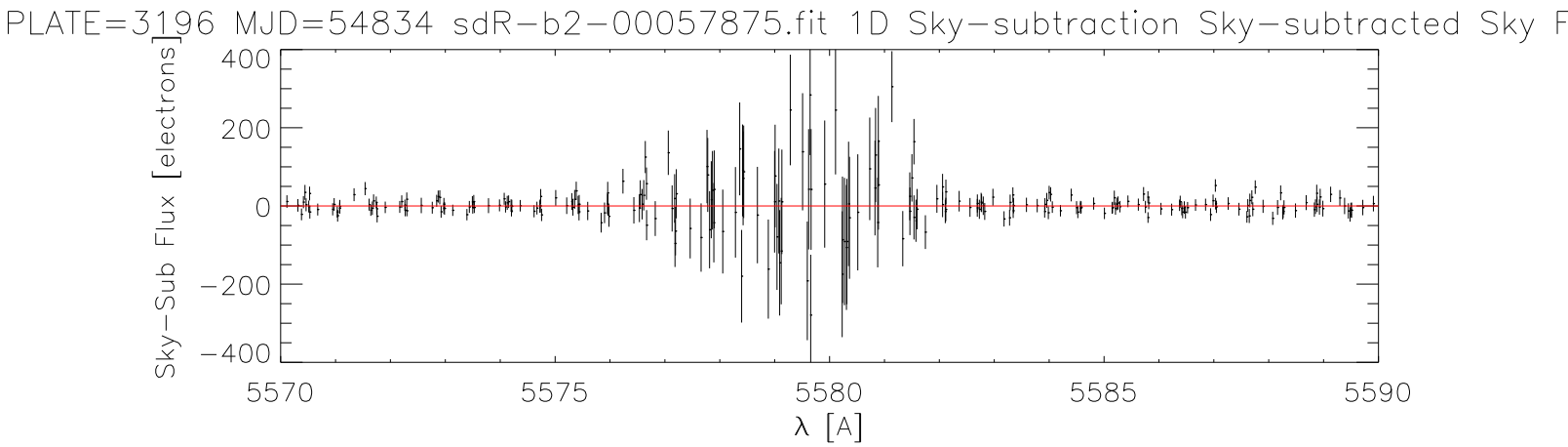

4046.5600
nfib1 16
nfib2 16
stdev 0.087
extra −0.24
4358.3300
nfib1 16
nfib2 16
stdev 0.047
extra −0.21
5460.9400
nfib1 16
nfib2 16
stdev 0.050
extra −0.13
5577.3390
nfib1 16
nfib2 16
stdev 0.012
extra −0.07
5889.9500
nfib1 16
nfib2 16
stdev 0.019
extra 0.03
5895.9240
nfib1 16
nfib2 16
stdev 0.028
extra −0.00
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

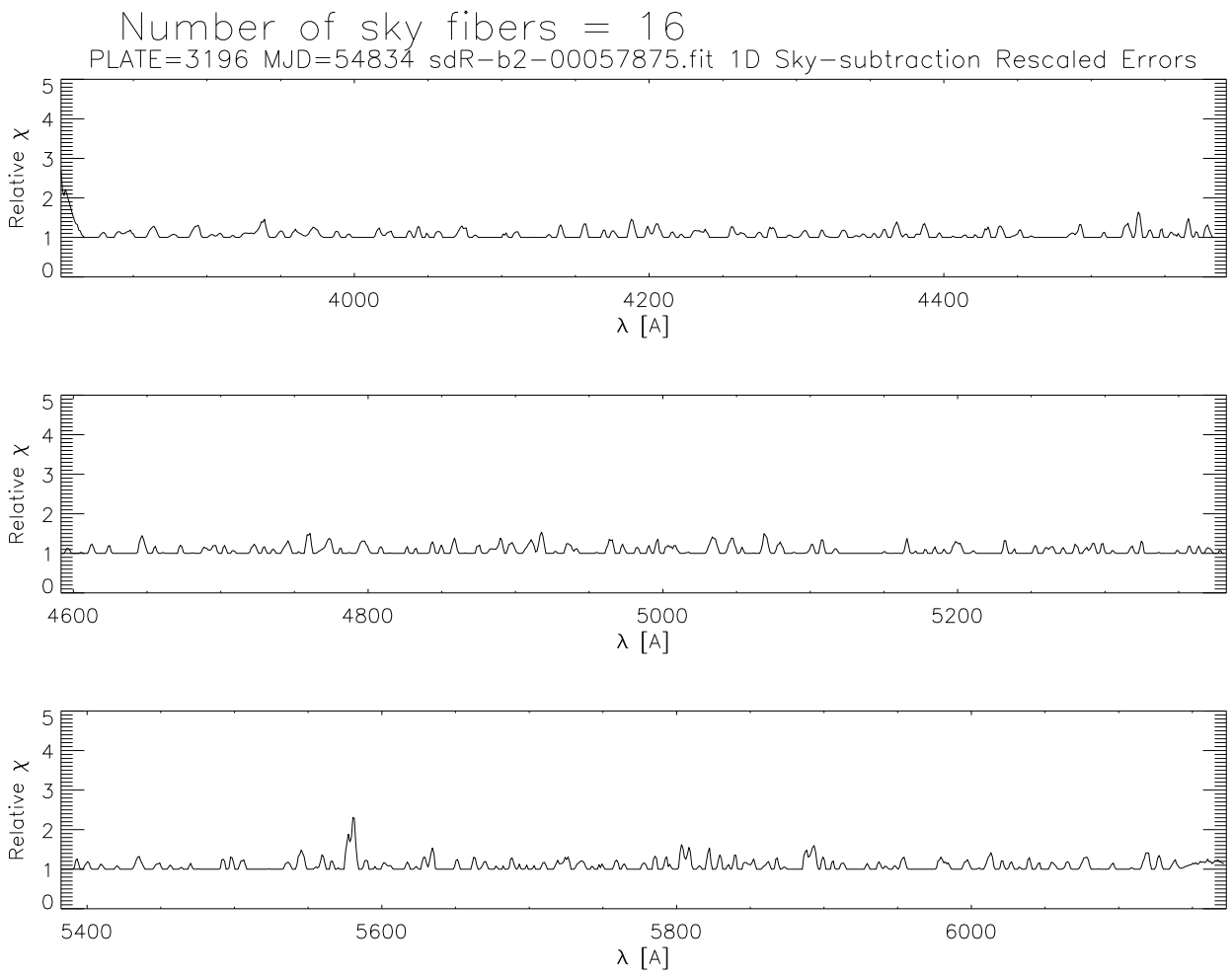

0.0
−0.1
−0.2
−0.3
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

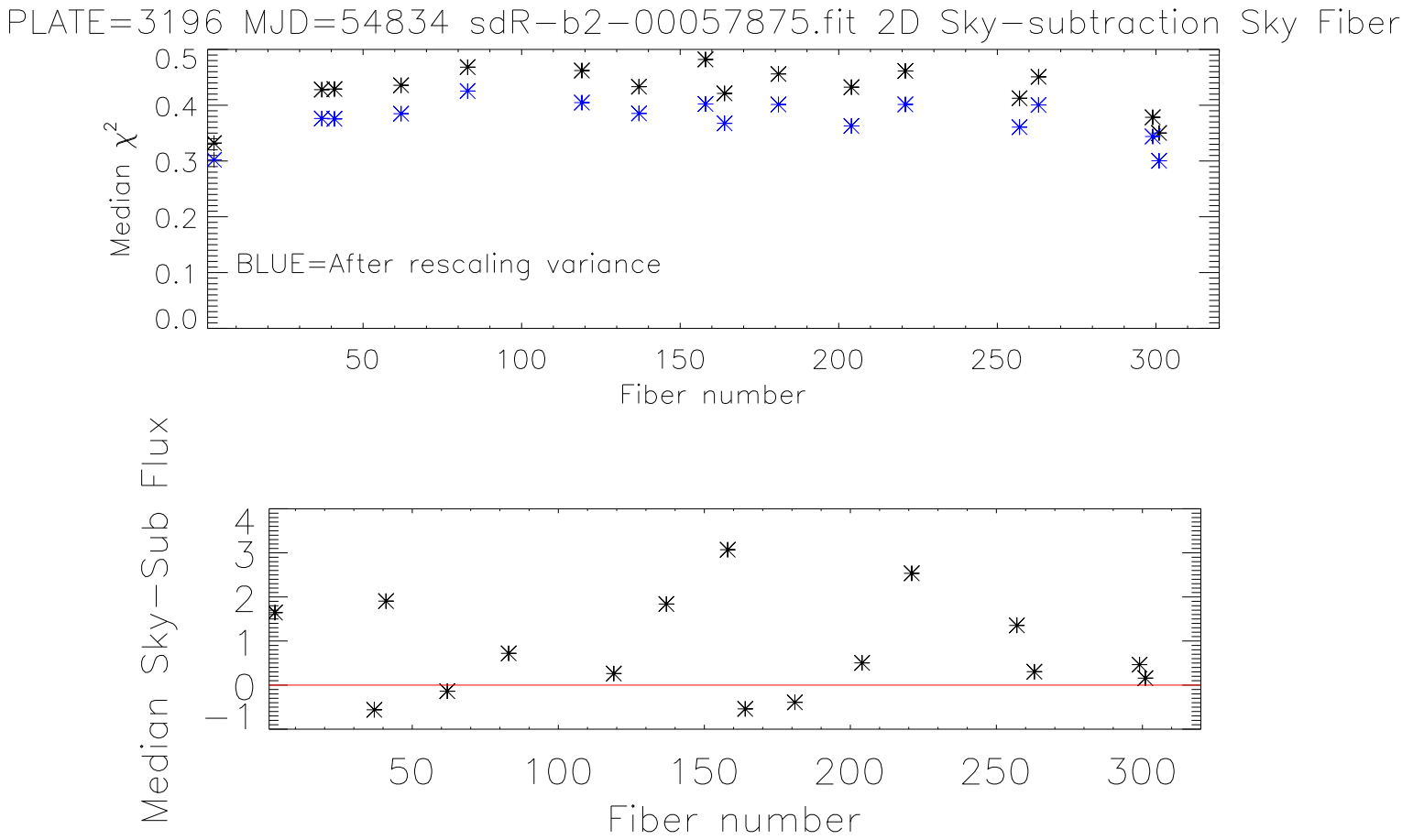

PLATE=3196 MJD=54834 Smooth superflat for sdR-b2-00057875.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
0.980
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

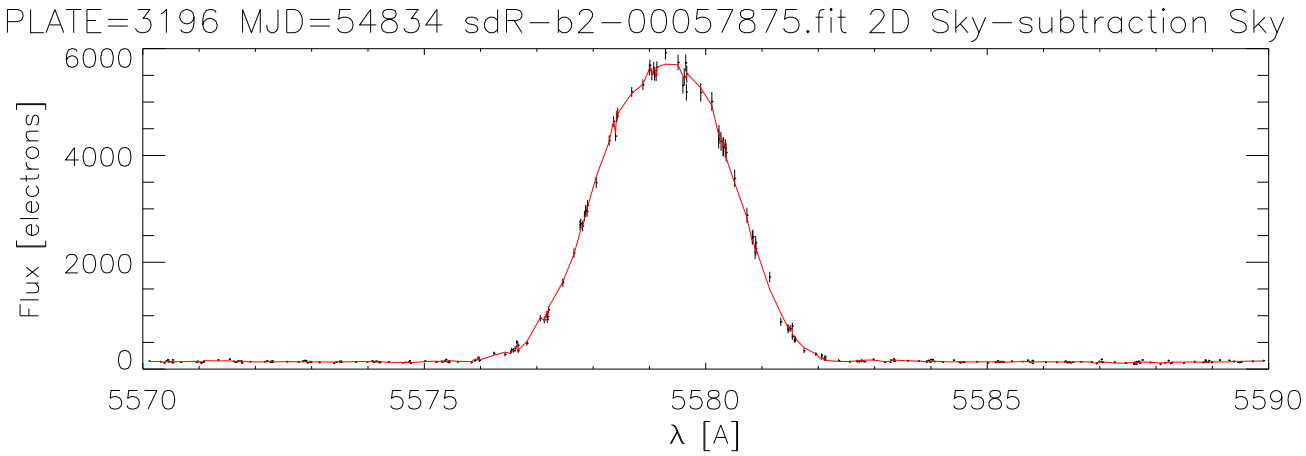

PLATE=3196 MJD=54834 sdR-b2-00057875.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

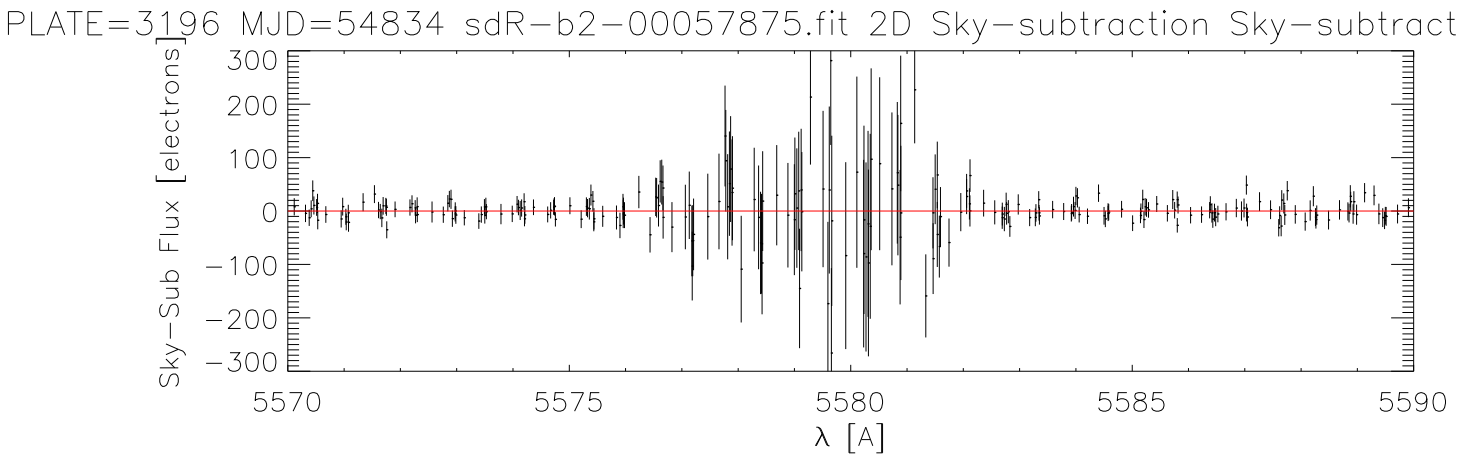

PLATE=3196 MJD=54834 sdR-b2-00057875.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

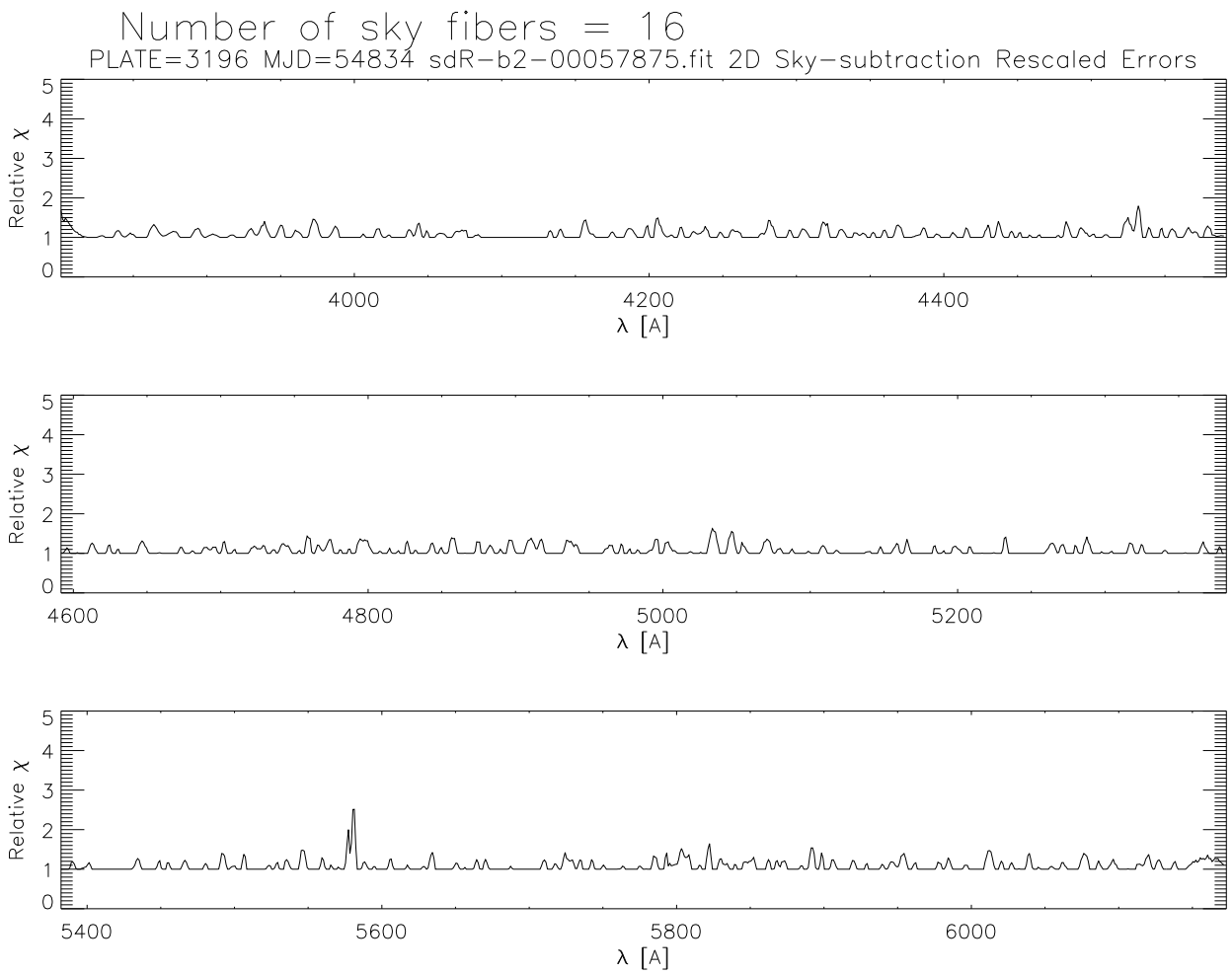

PLATE=3196 MJD=54834 sdR-b2-00057875.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

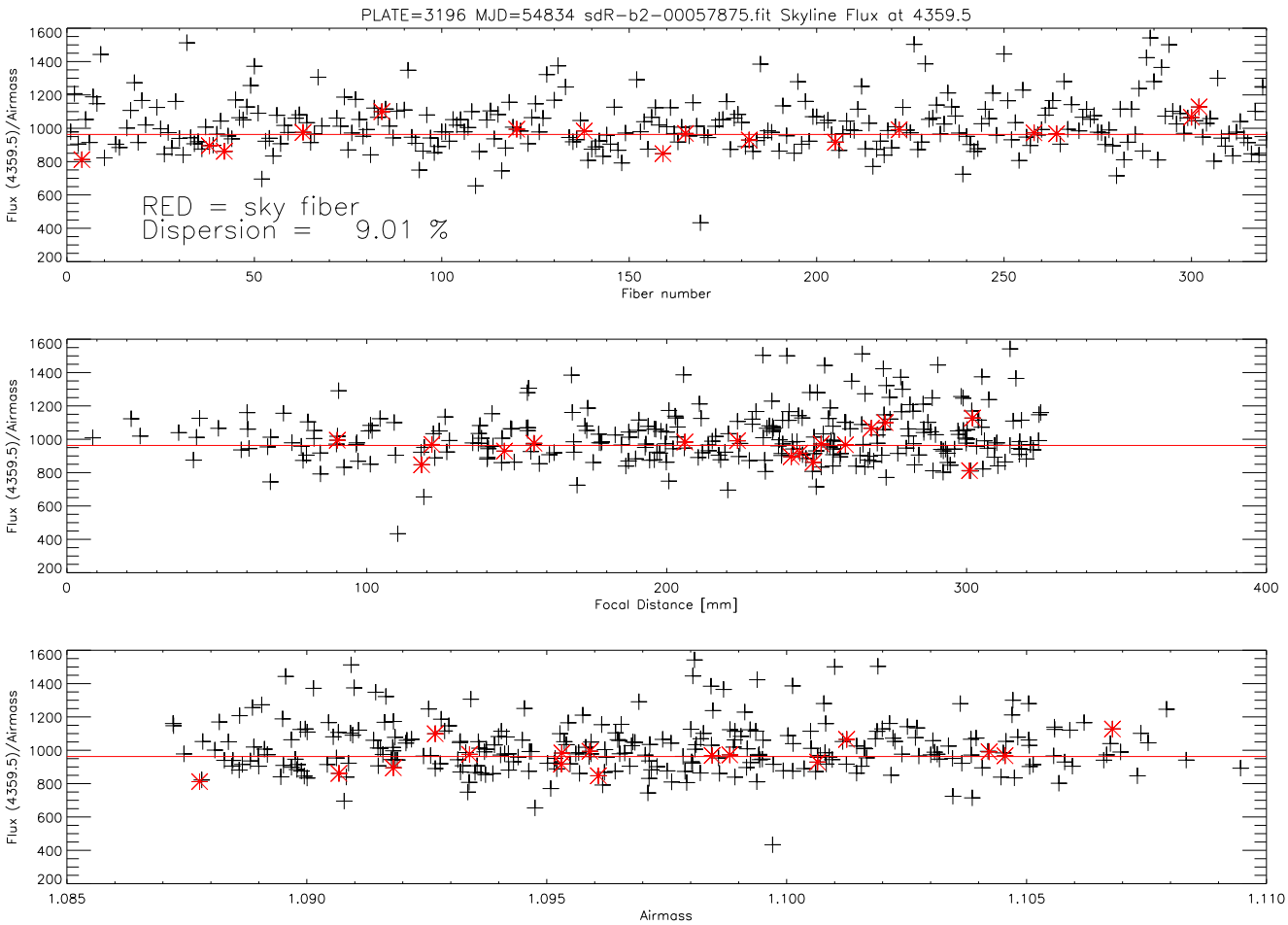

Number of sky fibers = 16
PLATE=3196 MJD=54834 sdR-b2-00057875.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

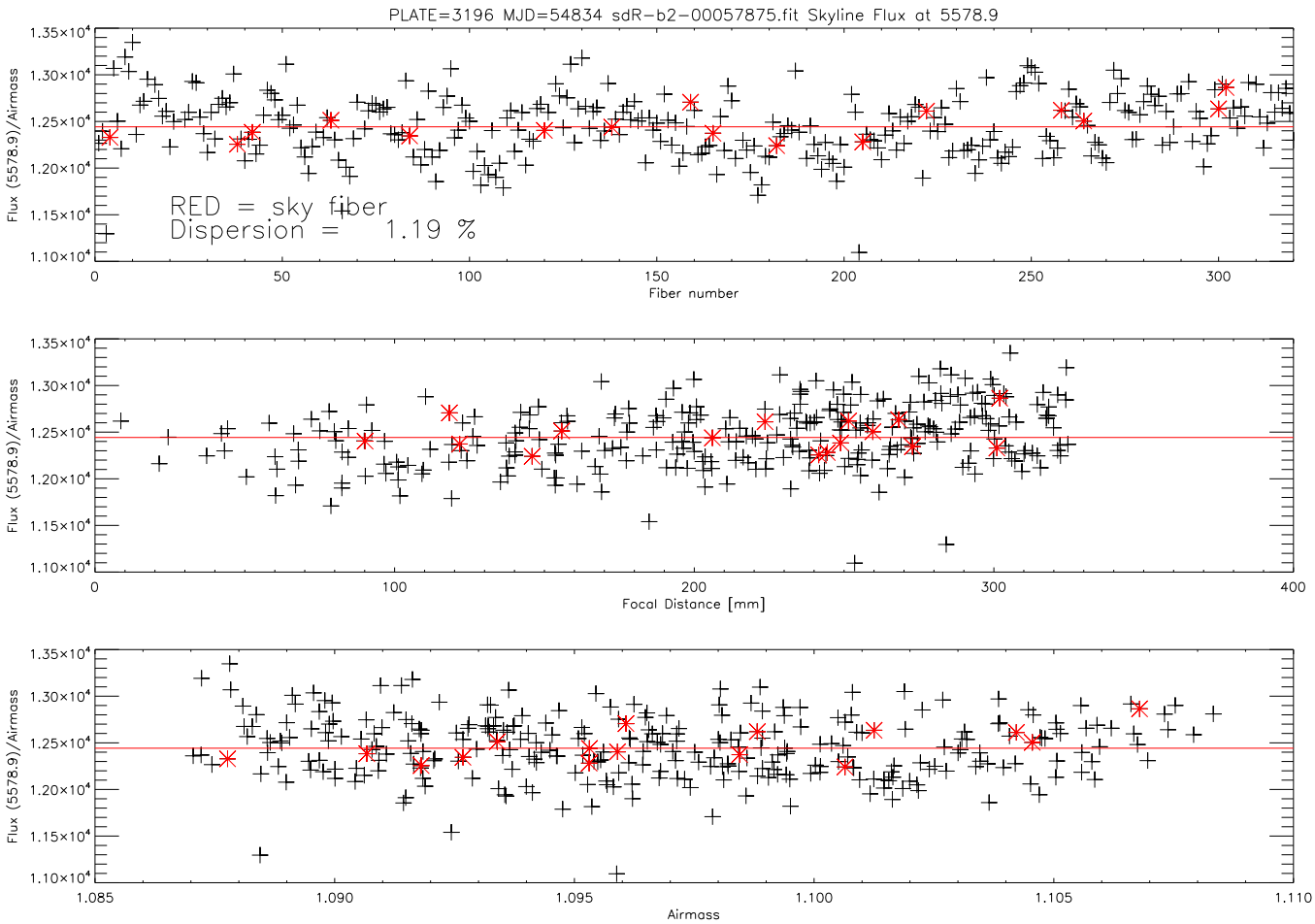

PLATE=3196 MJD=54834 sdR-b2-00057875.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

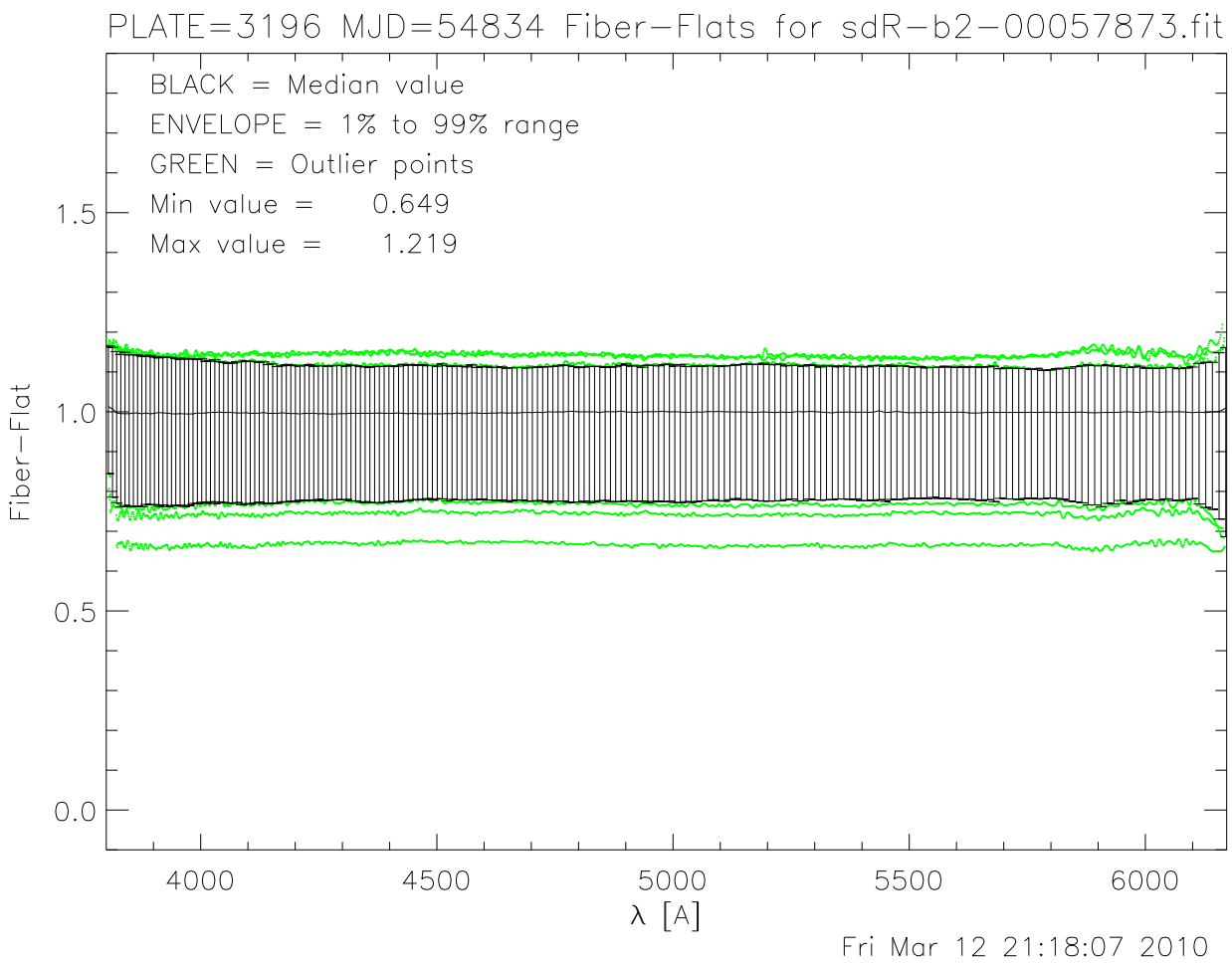

PLATE=3196 MJD=54834 sdR-b2-00057875.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

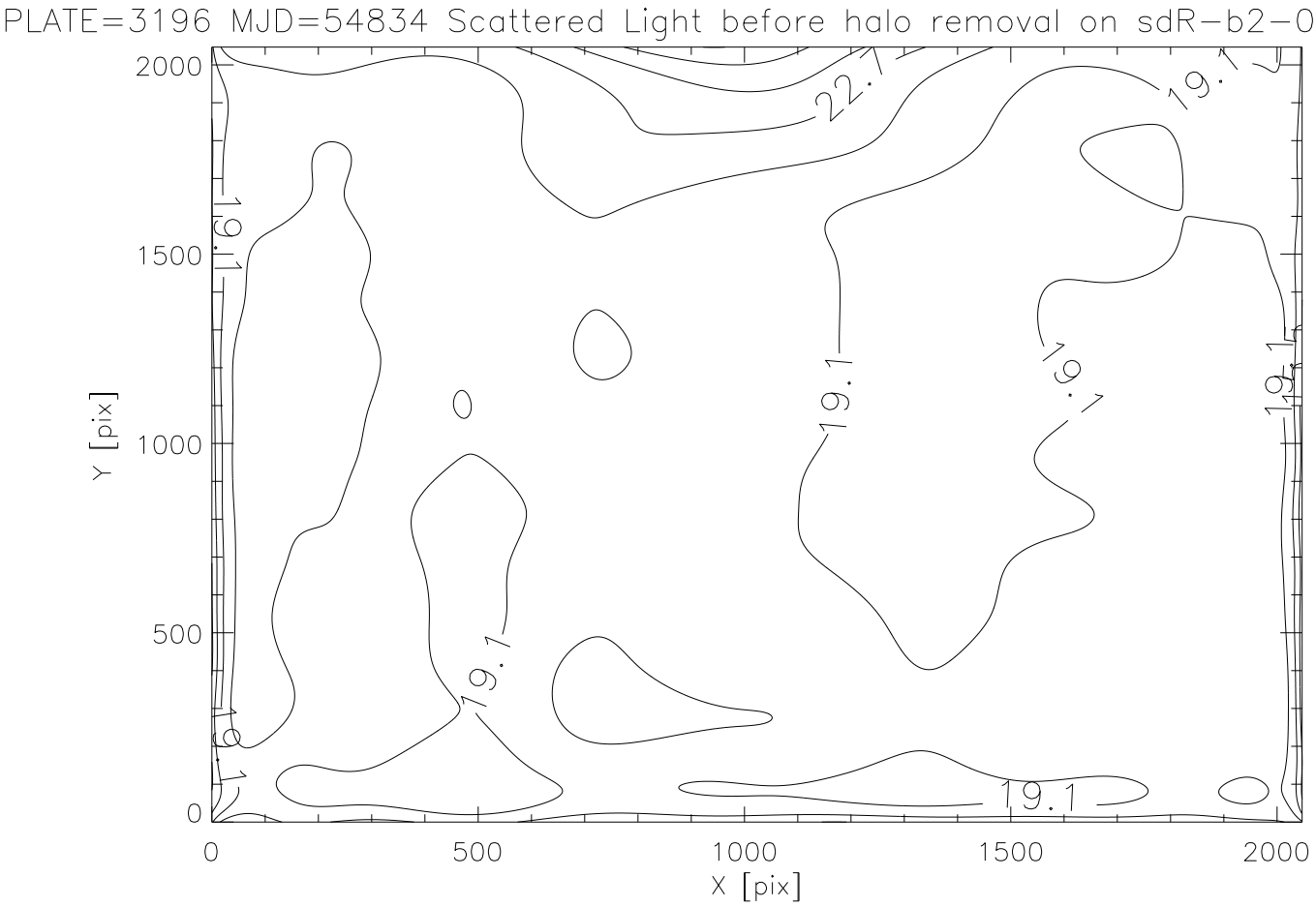

PLATE=3196 MJD=54834 sdR-b2-00057875.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

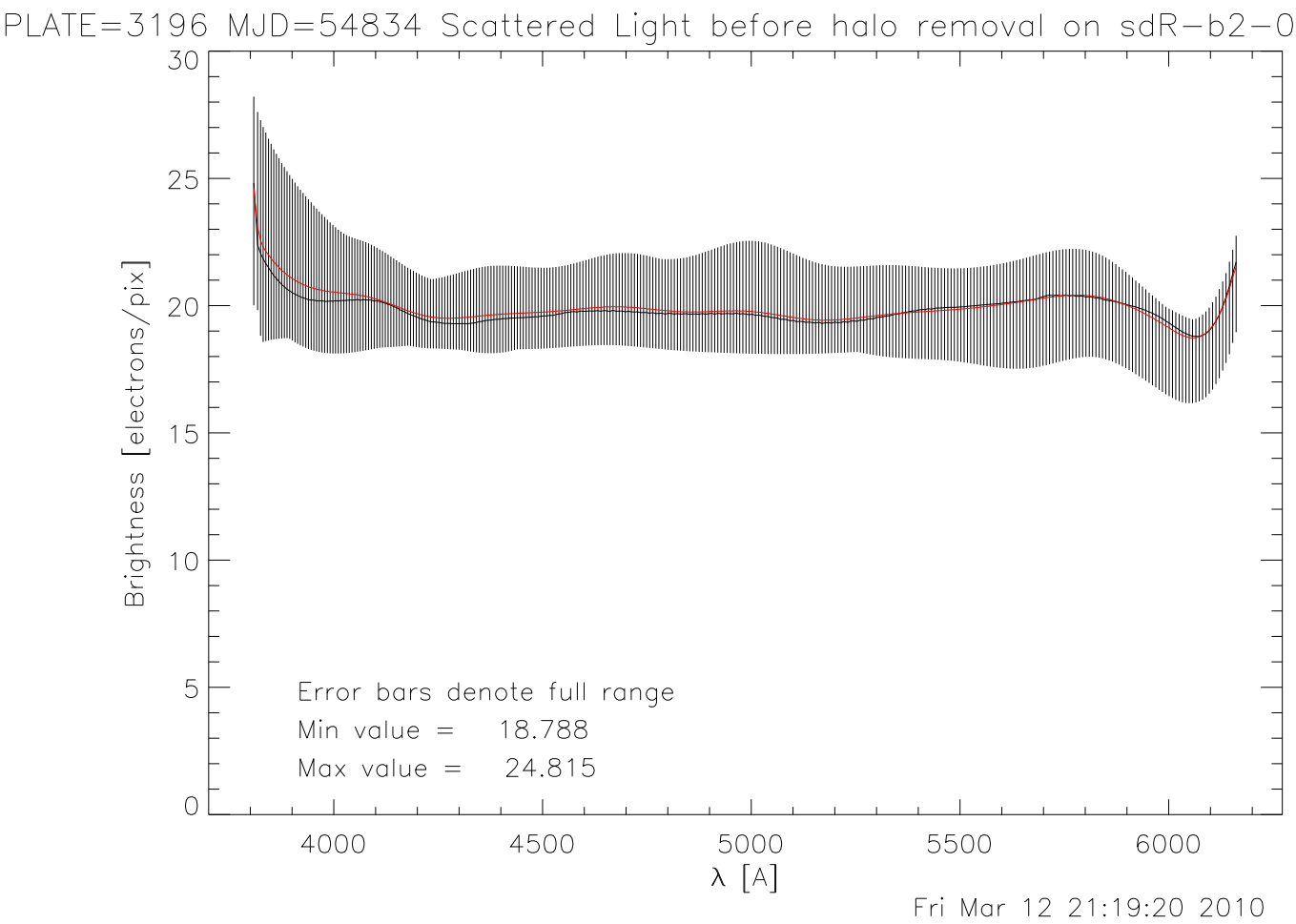

Number of sky fibers = 16
PLATE=3196 MJD=54834 sdR-b2-00057875.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

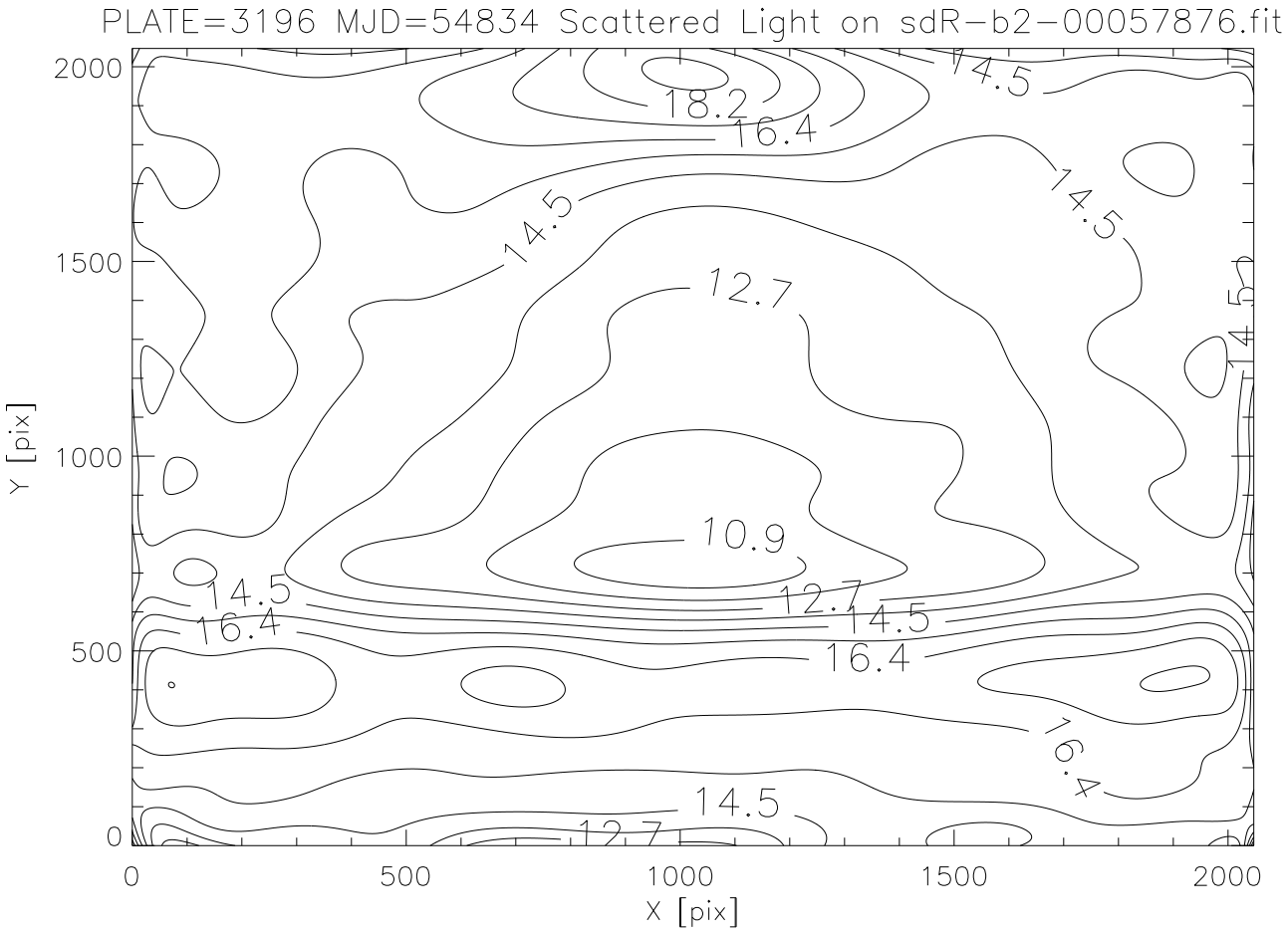

PLATE=3196 MJD=54834 sdR-b2-00057875.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 9.01 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

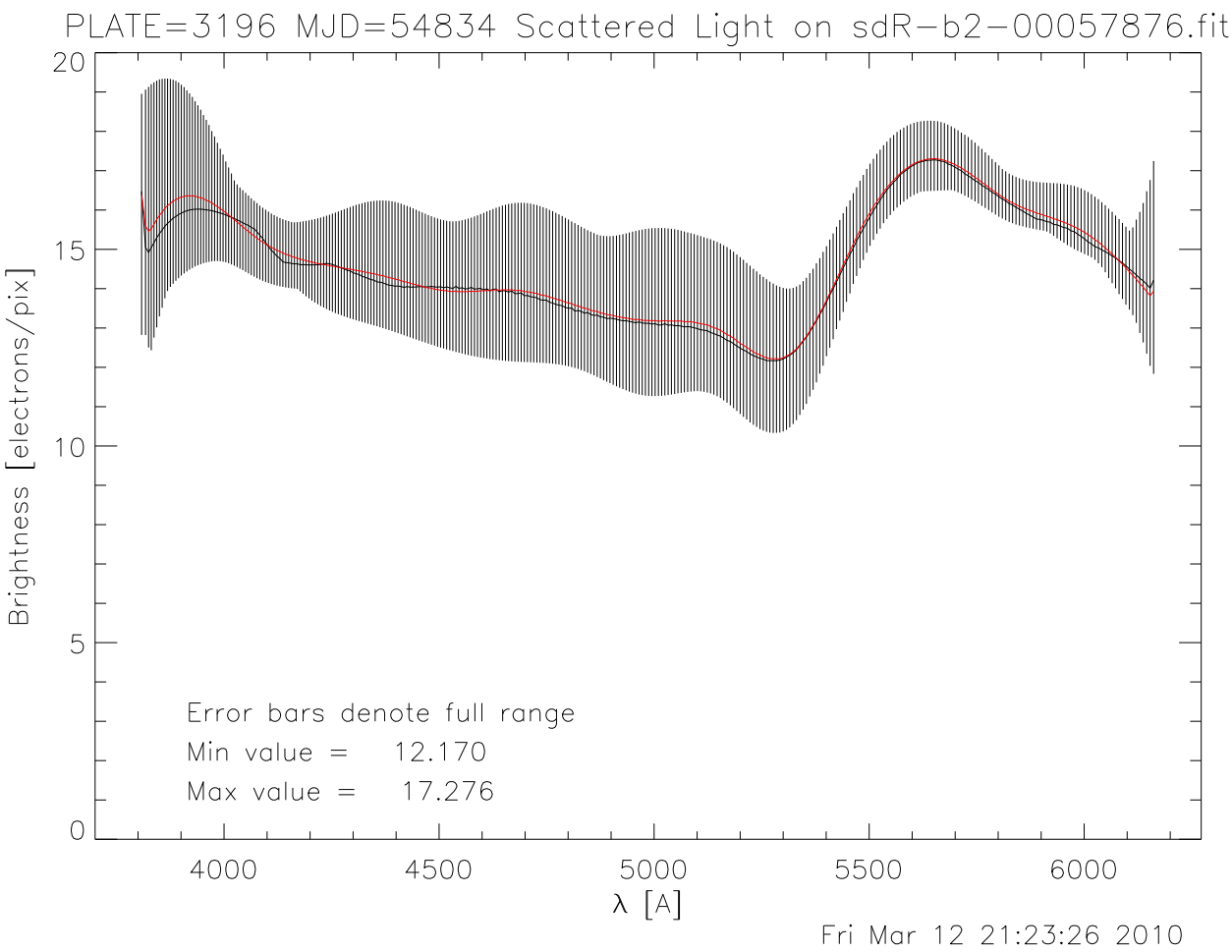

PLATE=3196 MJD=54834 sdR-b2-00057875.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
1.35×10^4
1.30×10^4
1.25×10^4
1.20×10^4
1.15×10^4
1.10×10^4
RED = sky fiber
Dispersion = 1.19 %
0
50
100
150
200
250
300
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
1.085
1.090
1.095
1.100
1.105
1.110
Airmass

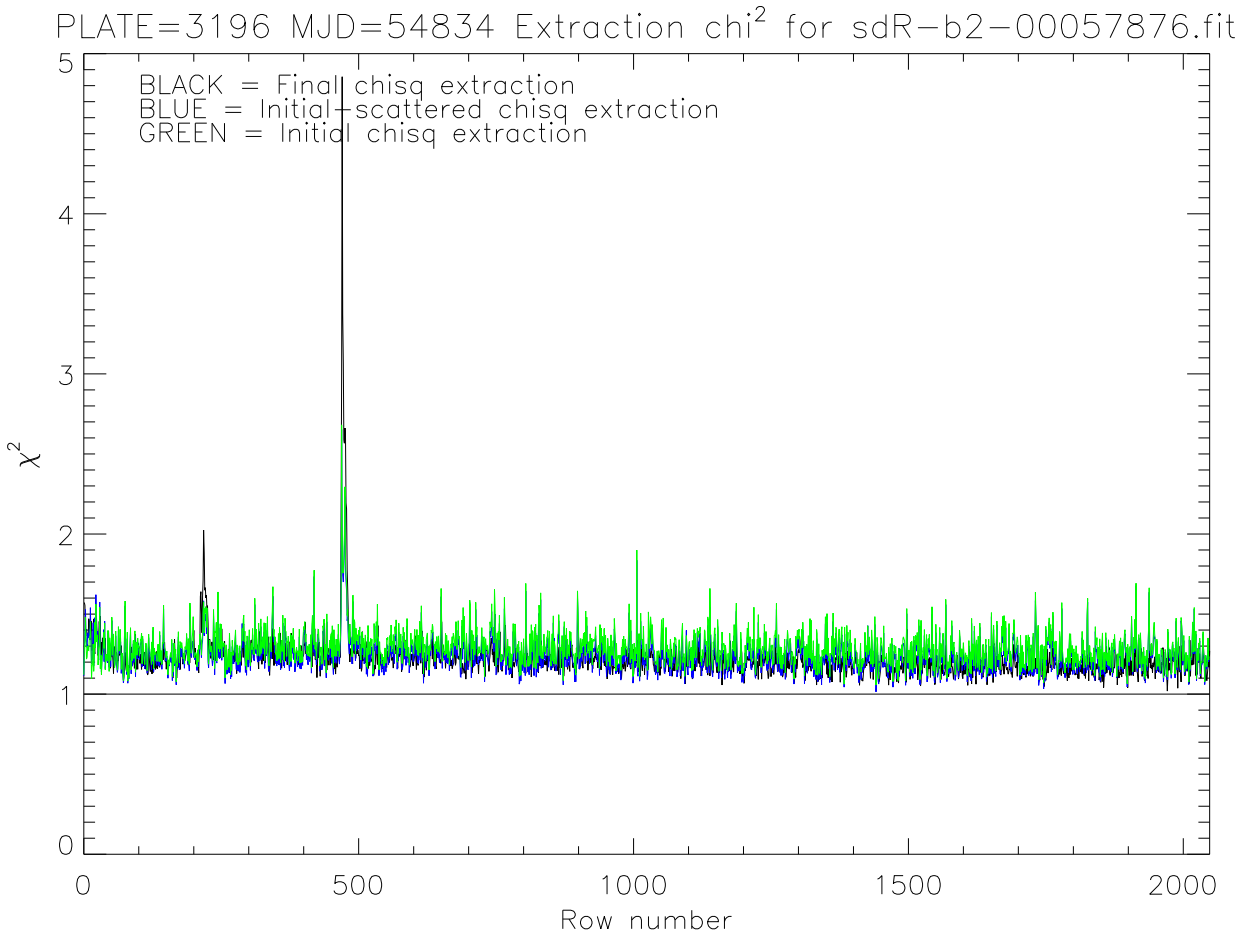

PLATE=3196 MJD=54834 Fiber−Flats for sdR−b2−00057873.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.649
Max value = 1.219
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Fri Mar 12 21:18:07 2010

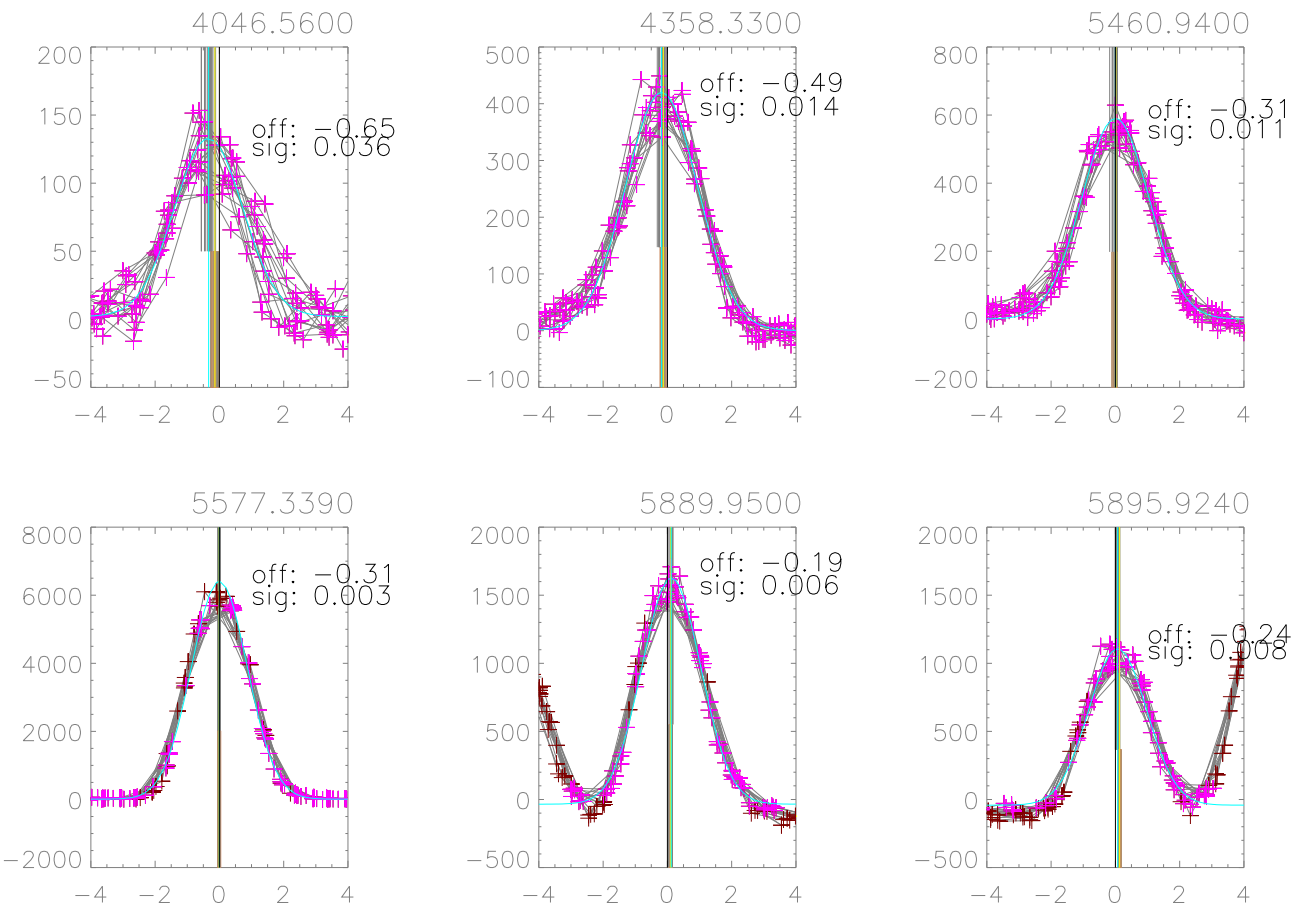

PLATE=3196 MJD=54834 Scattered Light before halo removal on sdR-b2-00057876.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
22.1
19.1
0

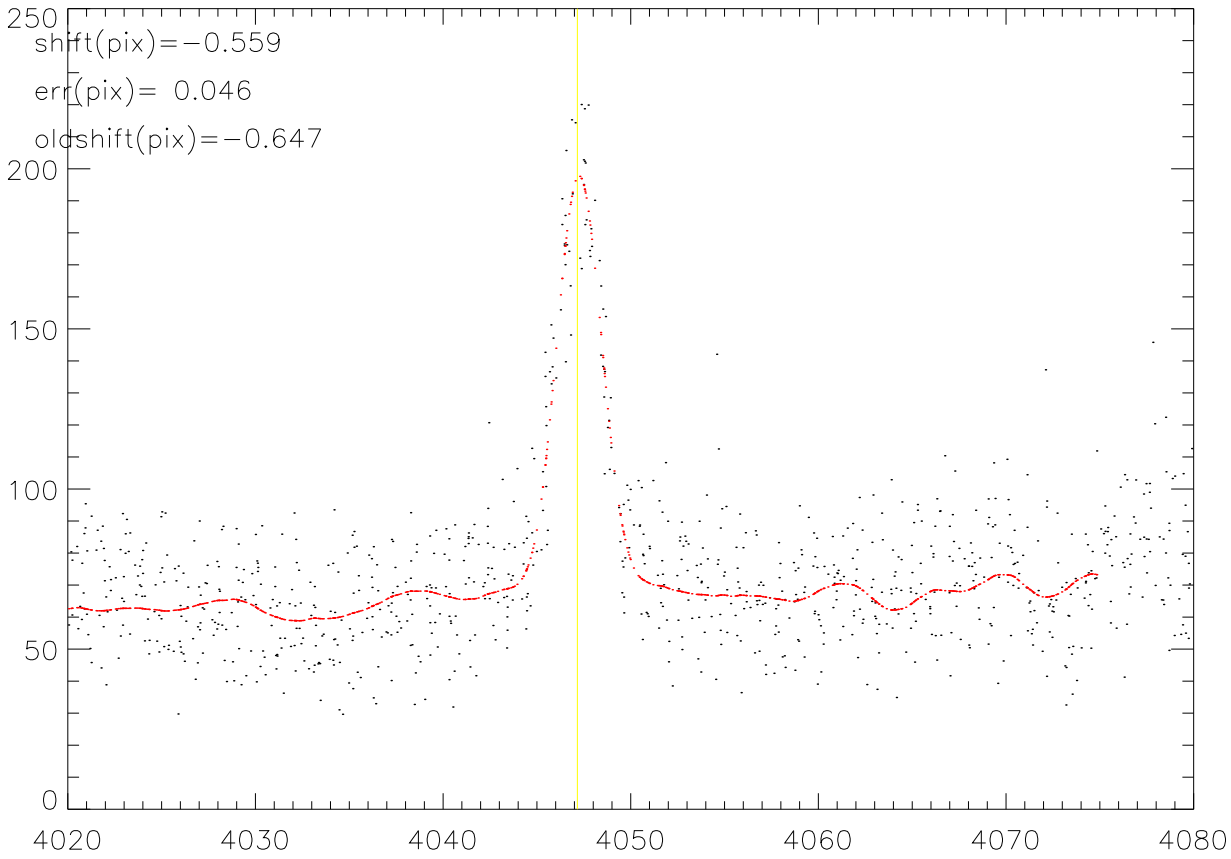

PLATE=3196 MJD=54834 Scattered Light before halo removal on sdR-b2-00057876.f
Brightness [electrons/pix]
30
25
20
15
10
5
0
Error bars denote full range
Min value = 18.788
Max value = 24.815
4000
4500
5000
5500
6000
λ [A]
Fri Mar 12 21:19:20 2010

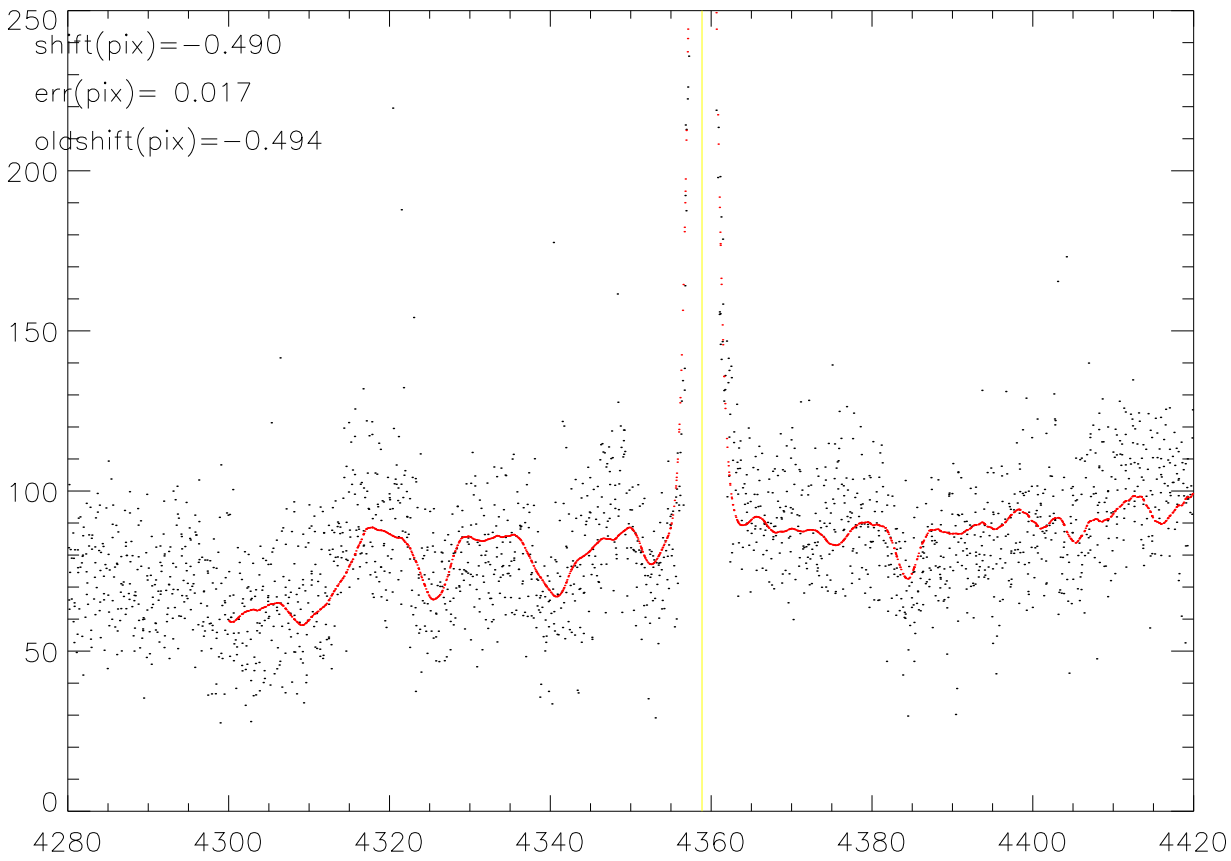

PLATE=3196 MJD=54834 Scattered Light on sdR-b2-00057876.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
18.2
16.4
14.5
12.7
10.9

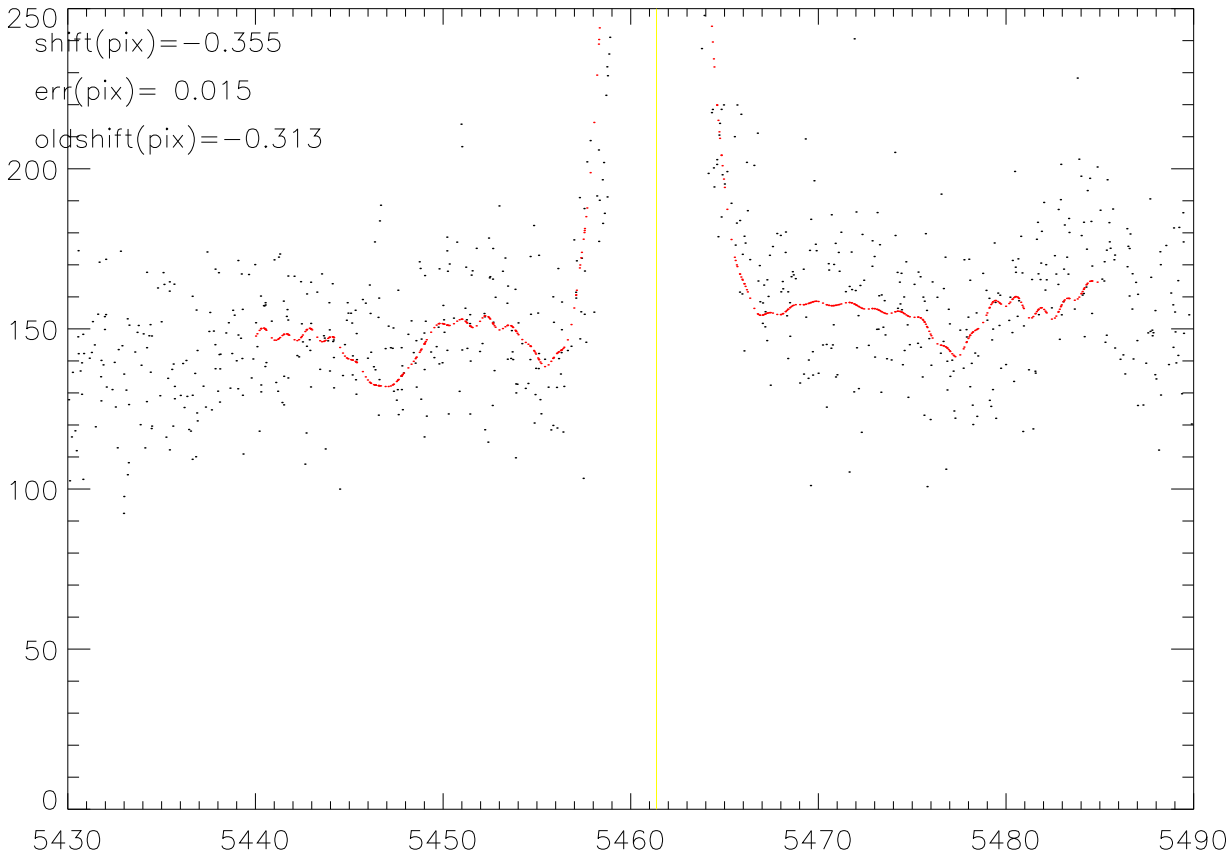

PLATE=3196 MJD=54834 Scattered Light on sdR-b2-00057876.fit
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 12.170
Max value = 17.276
4000
4500
5000
5500
6000
λ [A]
Fri Mar 12 21:23:26 2010

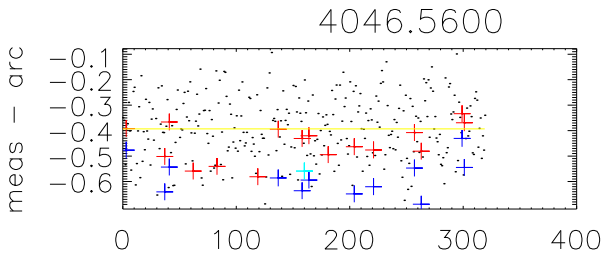

PLATE=3196 MJD=54834 Extraction chi^2 for sdR-b2-00057876.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

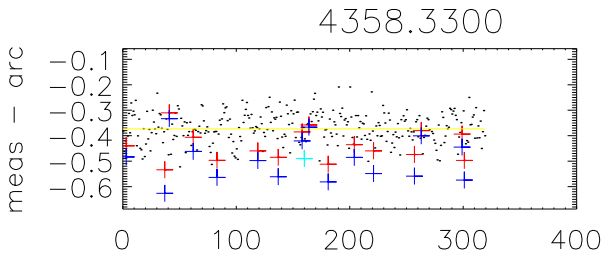

4046.5600
off: −0.65
sig: 0.036
4358.3300
off: −0.49
sig: 0.014
5460.9400
off: −0.31
sig: 0.011
5577.3390
off: −0.31
sig: 0.003
5889.9500
off: −0.19
sig: 0.006
5895.9240
off: −0.24
sig: 0.008

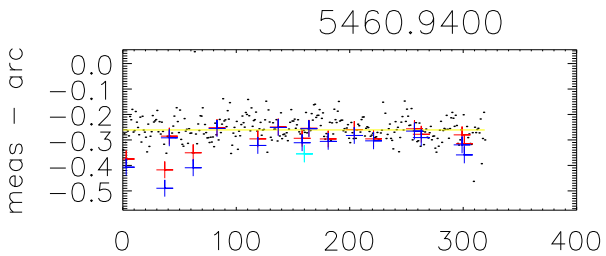

shift(pix)=−0.559
err(pix)= 0.046
oldshift(pix)=−0.647
250
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

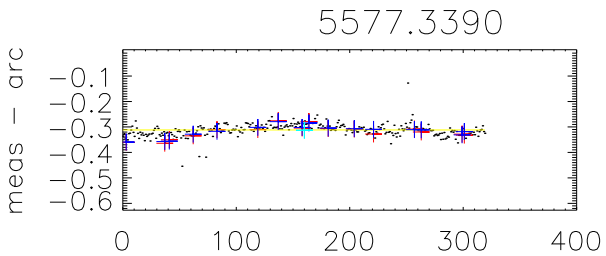

shift(pix)=−0.490
err(pix)= 0.017
oldshift(pix)=−0.494
250
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

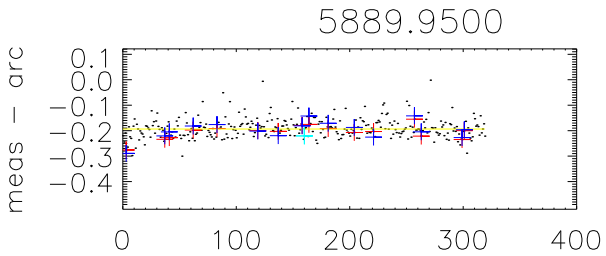

shift(pix)=−0.355
err(pix)= 0.015
oldshift(pix)=−0.313
250
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

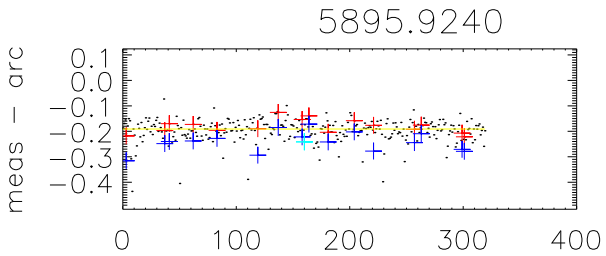

4046.5600
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

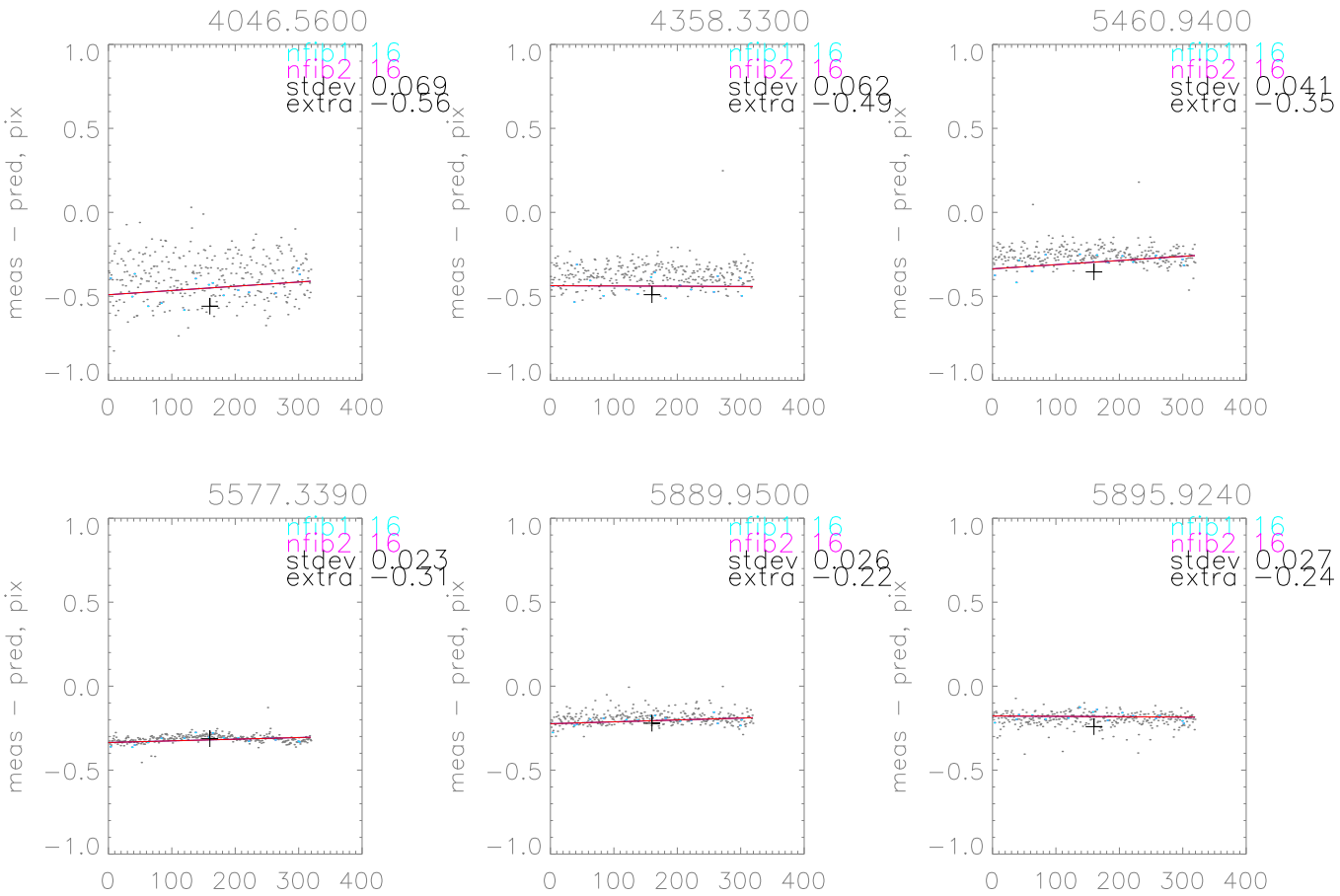

4358.3300
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

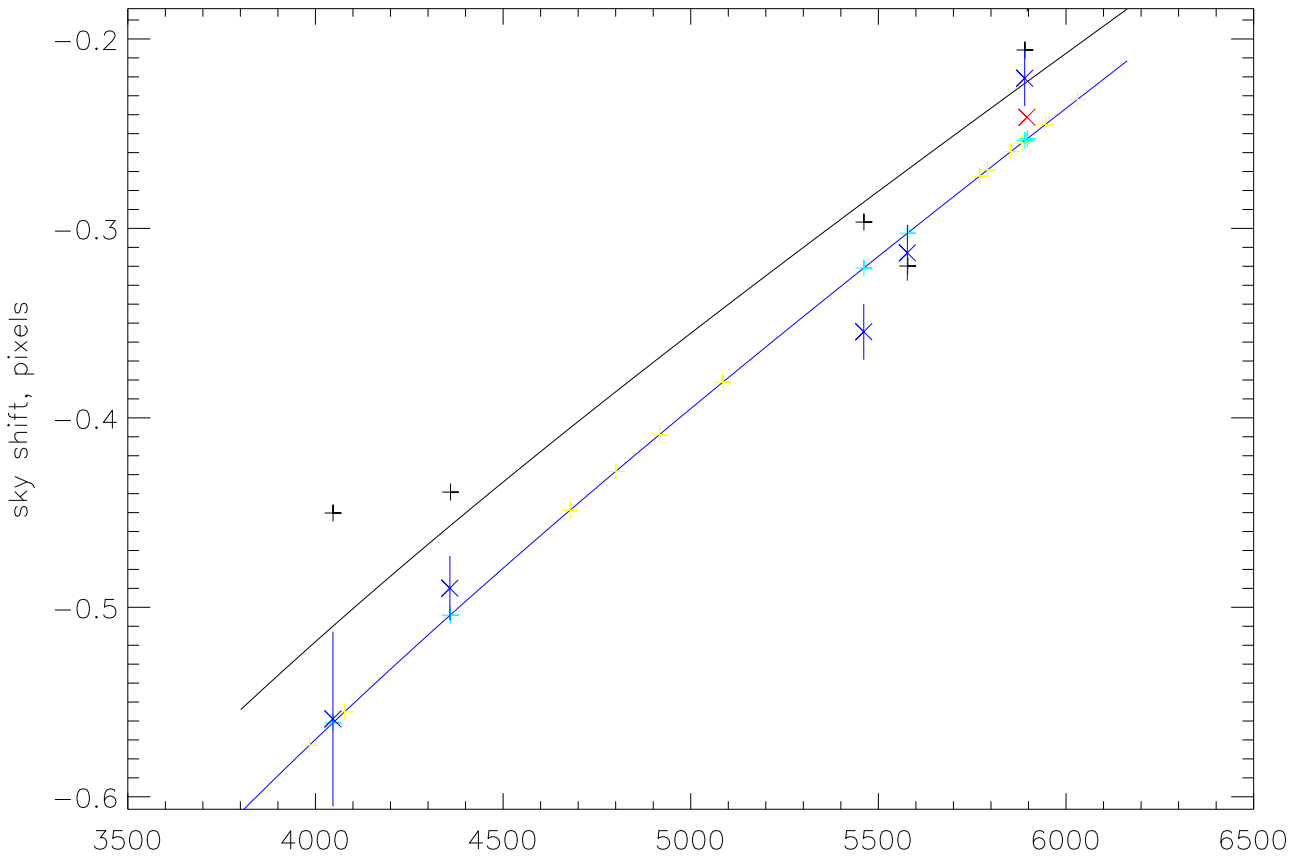

5460.9400
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

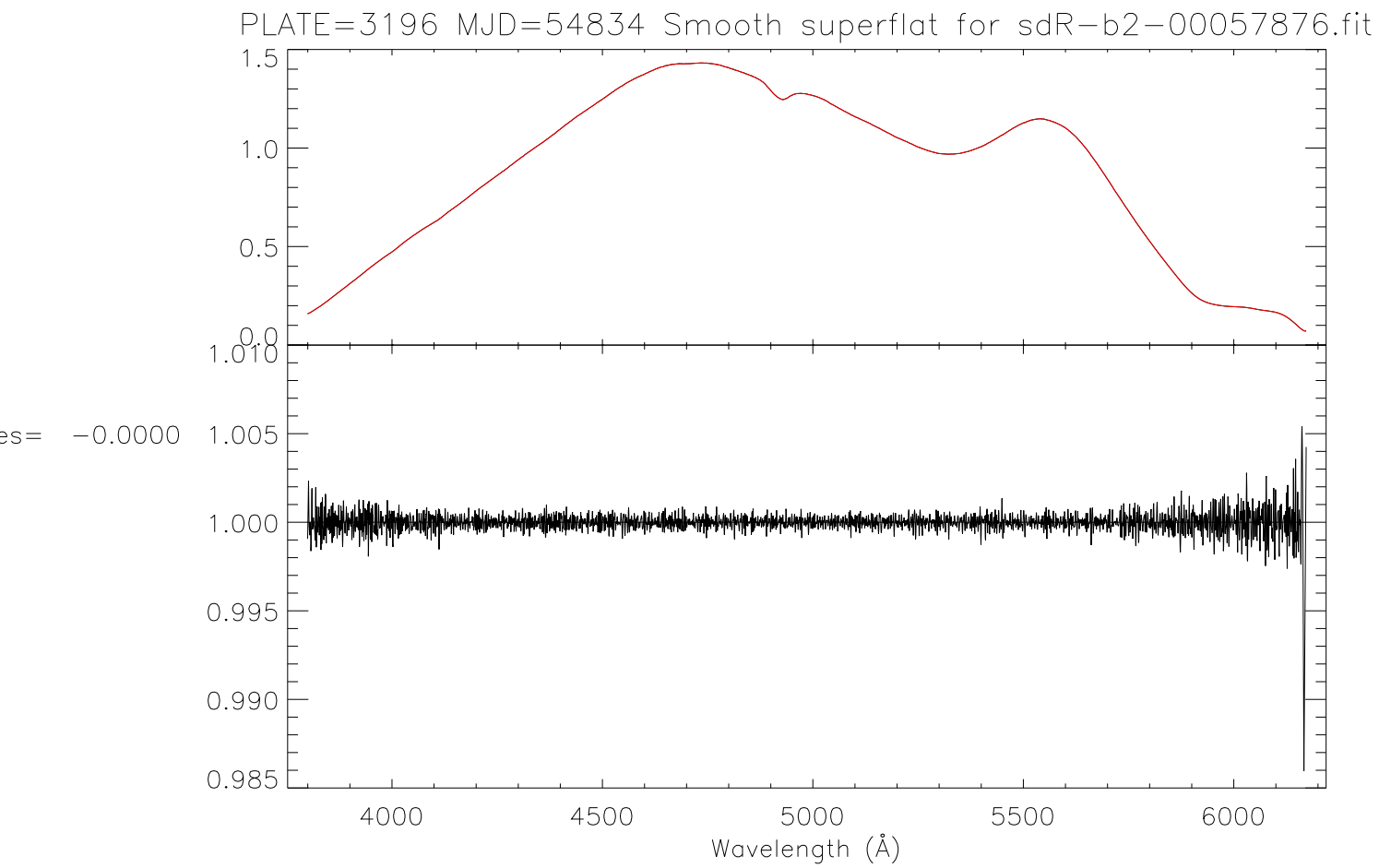

5577.3390
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400


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

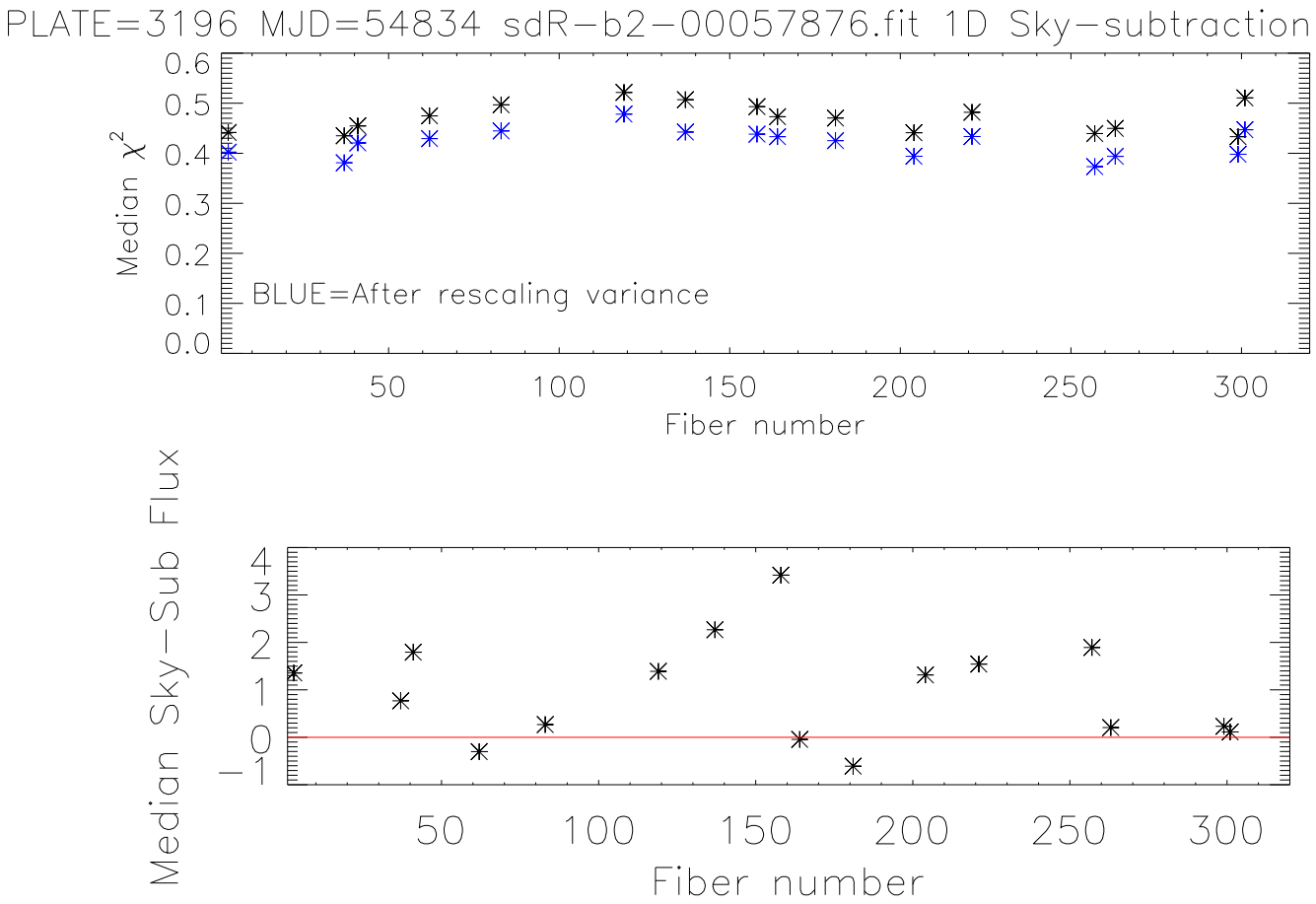

5895.9240
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

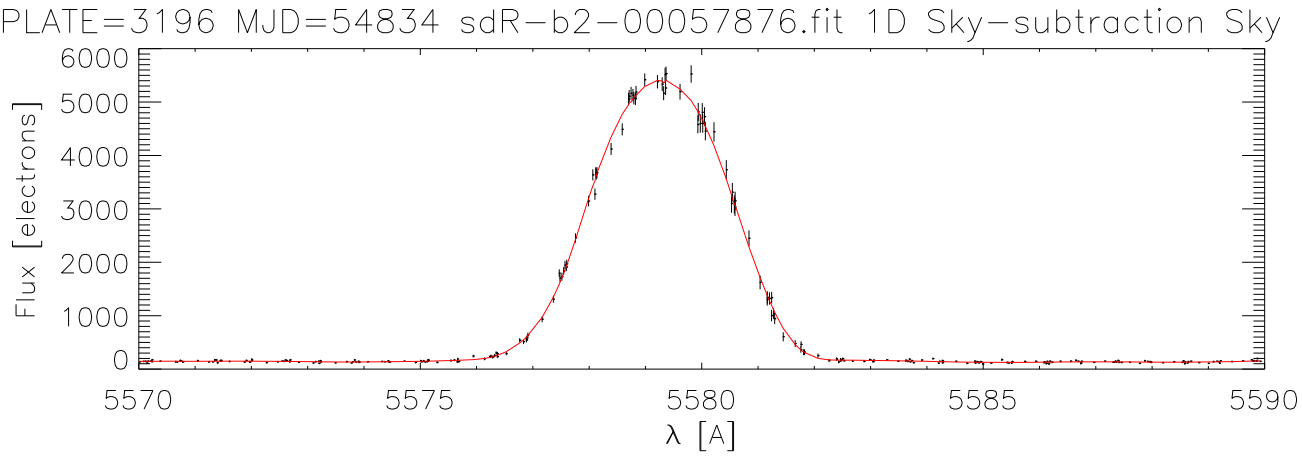

4046.5600
nfib1 16
nfib2 16
stdev 0.069
extra −0.56
4358.3300
nfib1 16
nfib2 16
stdev 0.062
extra −0.49
5460.9400
nfib1 16
nfib2 16
stdev 0.041
extra −0.35
5577.3390
nfib1 16
nfib2 16
stdev 0.023
extra −0.31
5889.9500
nfib1 16
nfib2 16
stdev 0.026
extra −0.22
5895.9240
nfib1 16
nfib2 16
stdev 0.027
extra −0.24
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

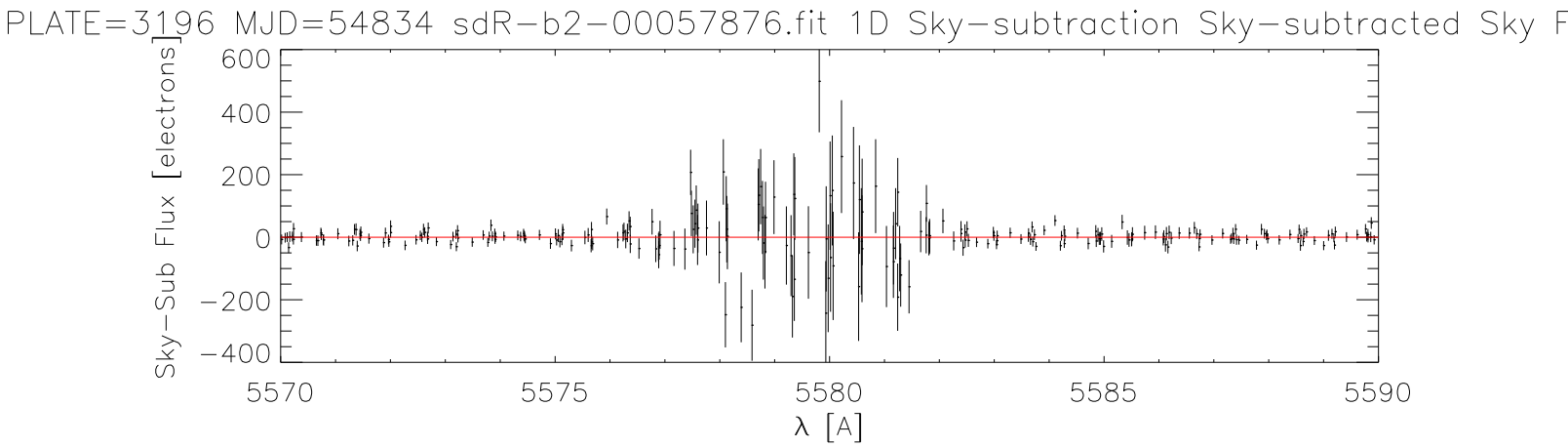

sky shift, pixels
−0.2
−0.3
−0.4
−0.5
−0.6
3500
4000
4500
5000
5500
6000
6500

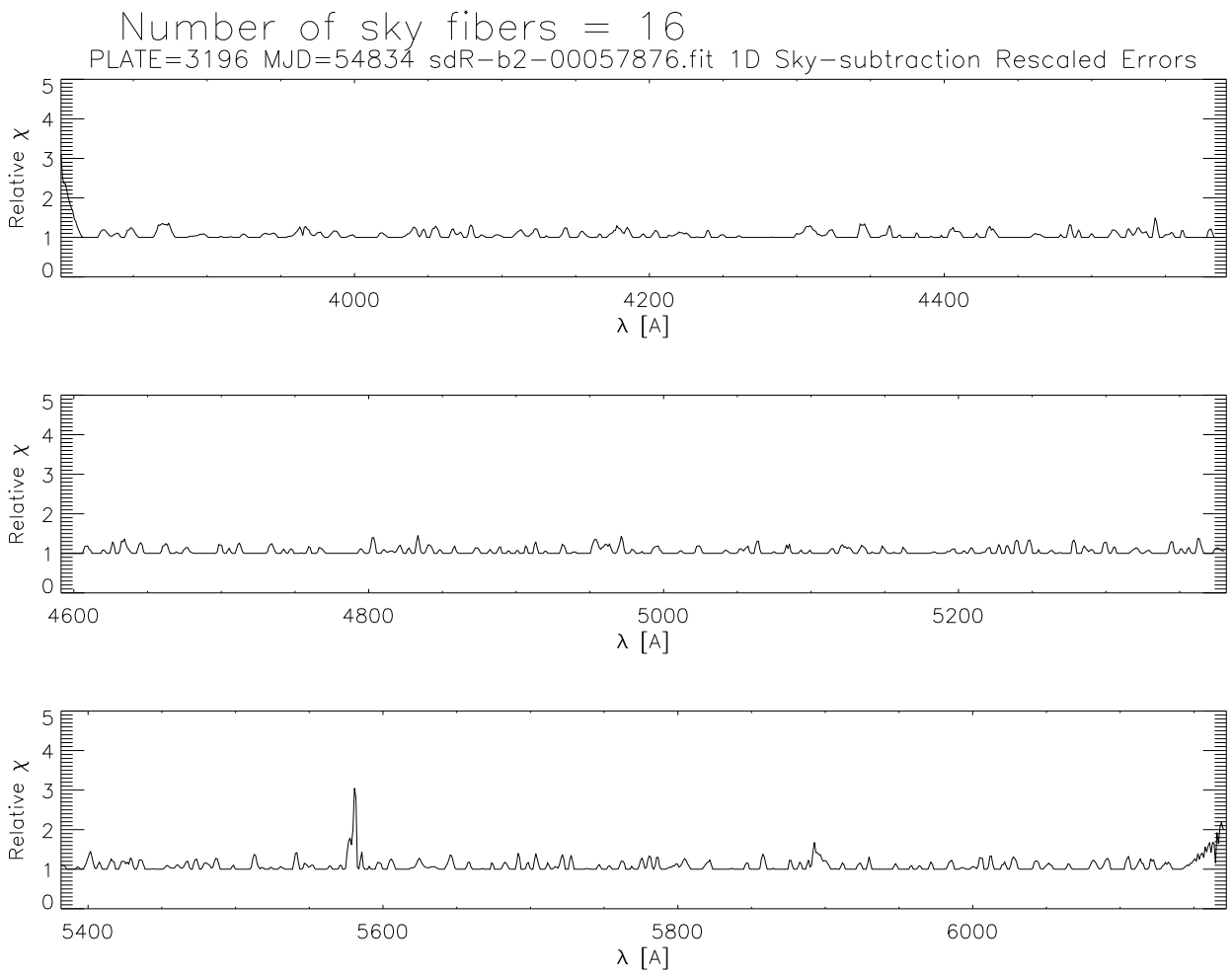

PLATE=3196 MJD=54834 Smooth superflat for sdR-b2-00057876.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
4000
4500
5000
5500
6000
Wavelength (Å)

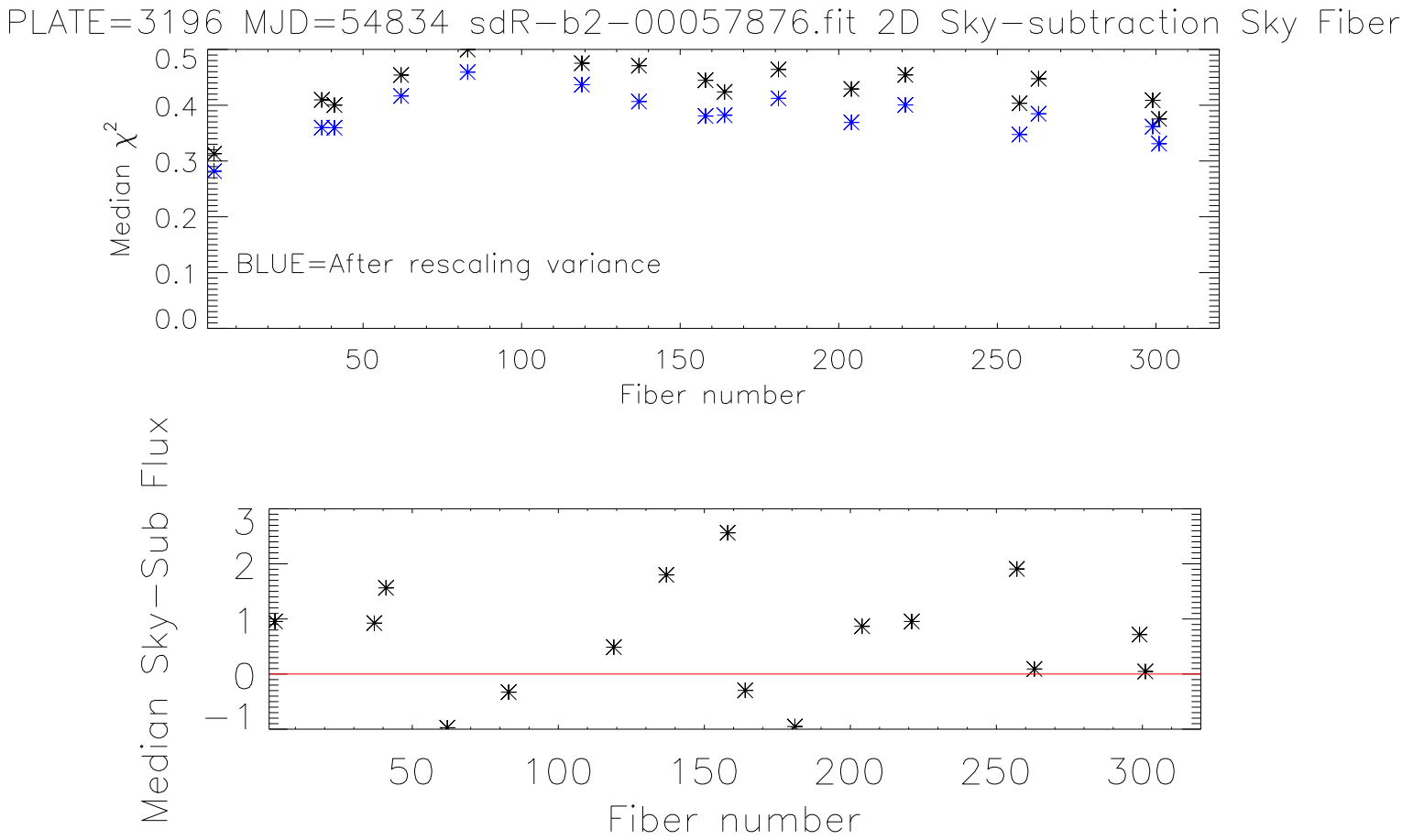
es= −0.0000

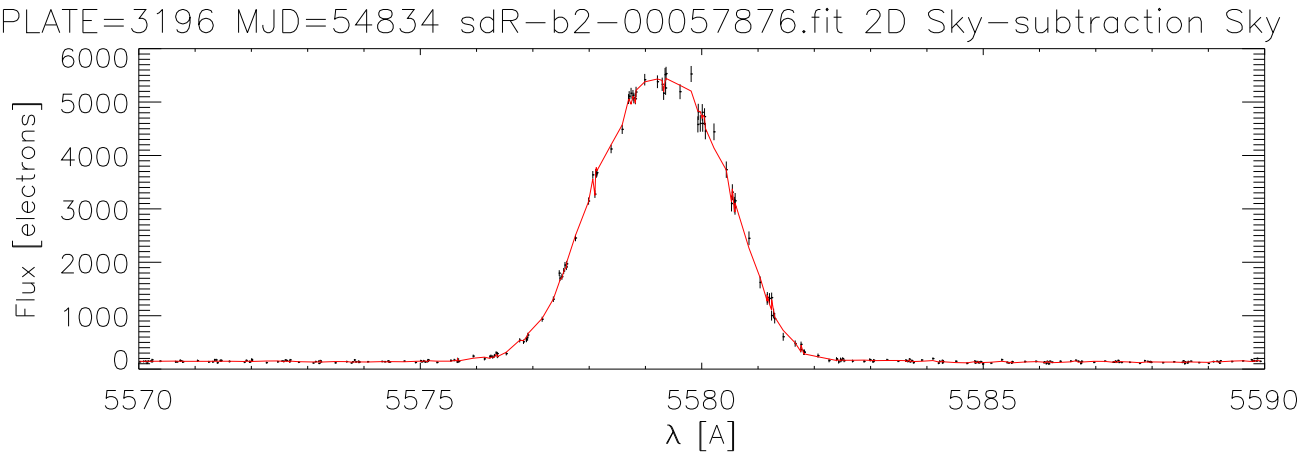

PLATE=3196 MJD=54834 sdR-b2-00057876.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

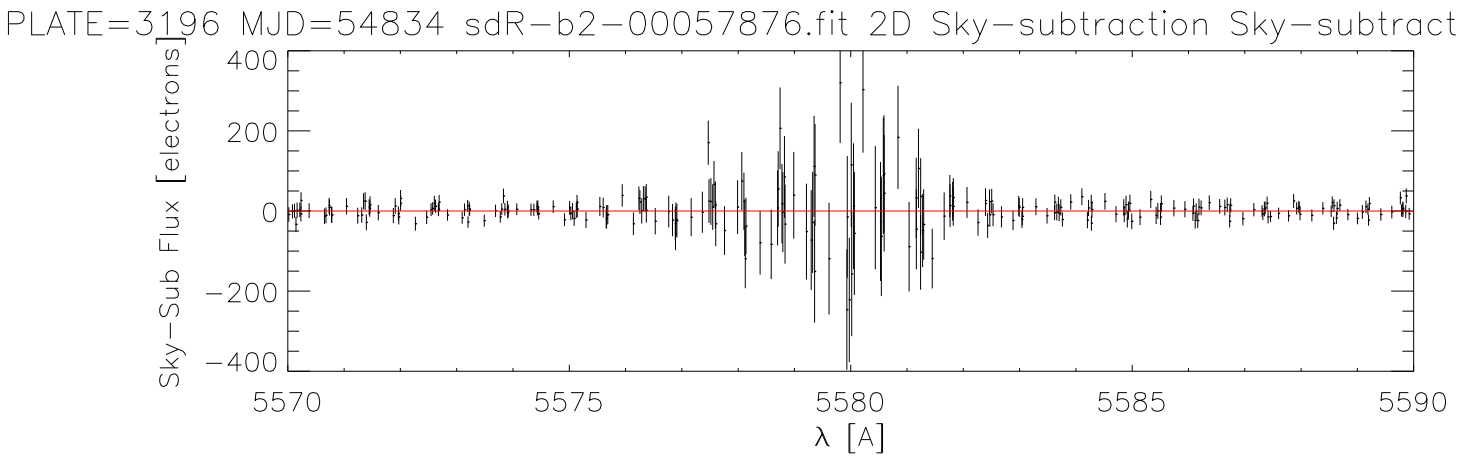

PLATE=3196 MJD=54834 sdR-b2-00057876.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

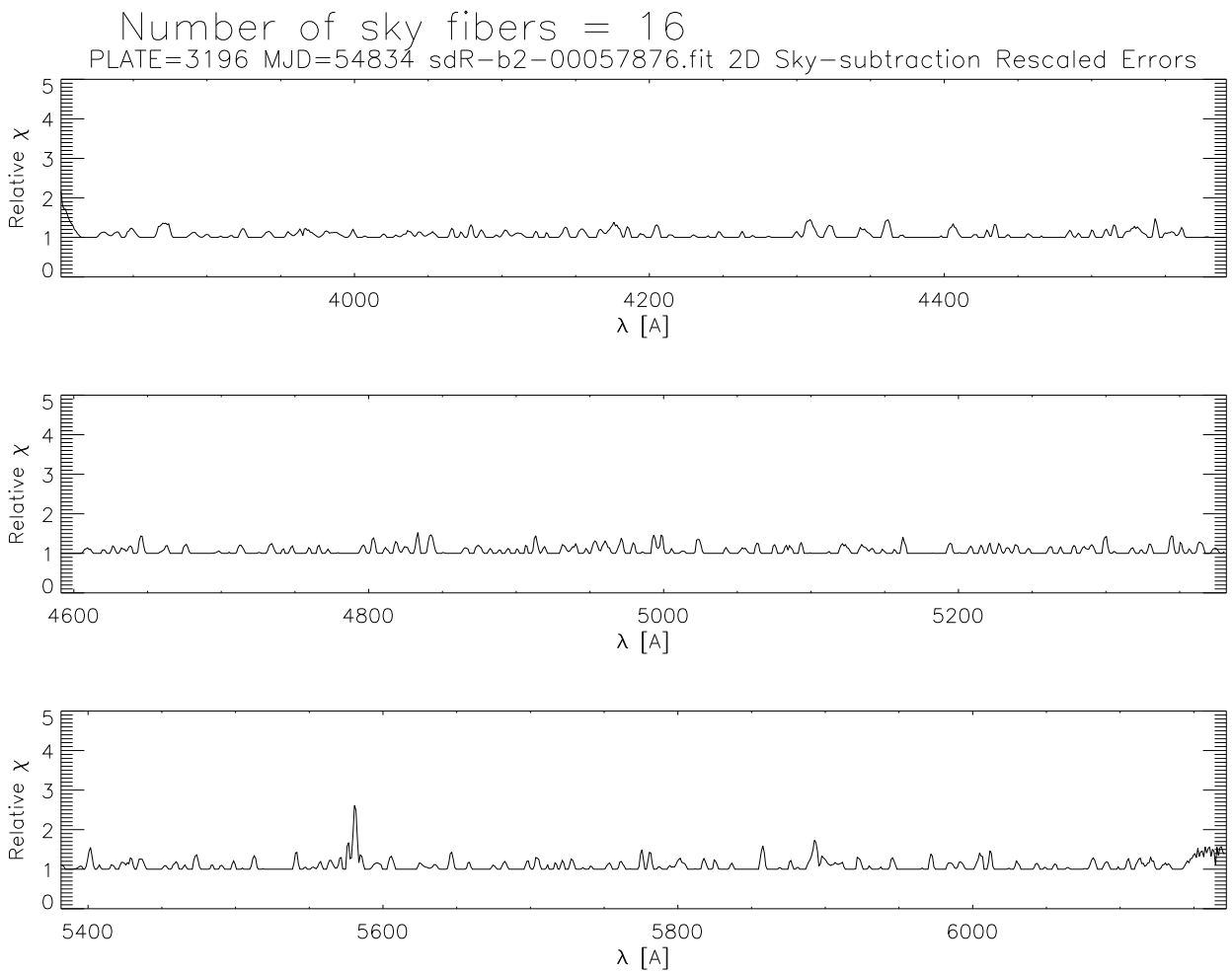

PLATE=3196 MJD=54834 sdR-b2-00057876.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
−200
−400
5570
5575
5580
5585
5590
λ [A]

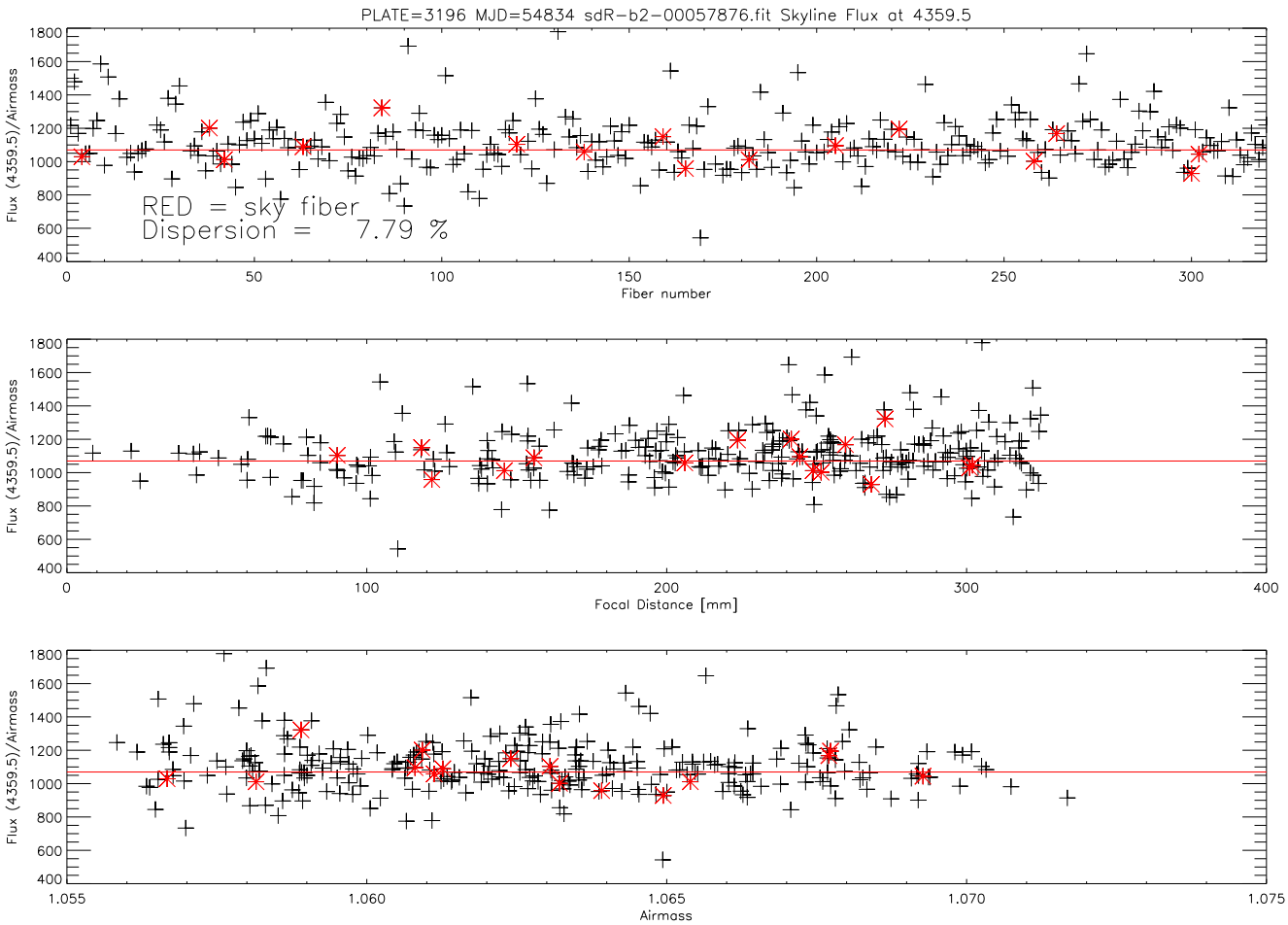

Number of sky fibers = 16
PLATE=3196 MJD=54834 sdR-b2-00057876.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

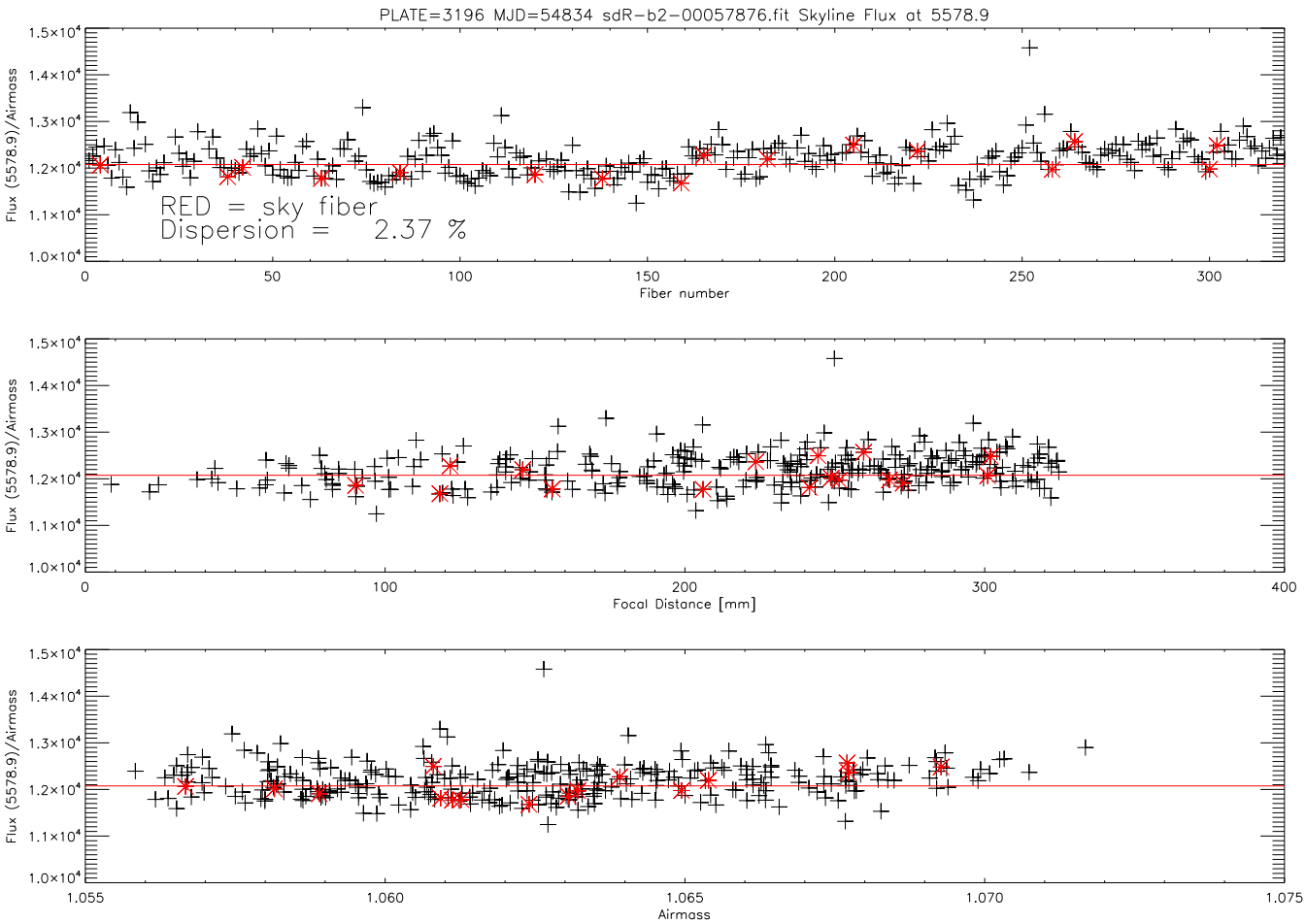

PLATE=3196 MJD=54834 sdR-b2-00057876.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

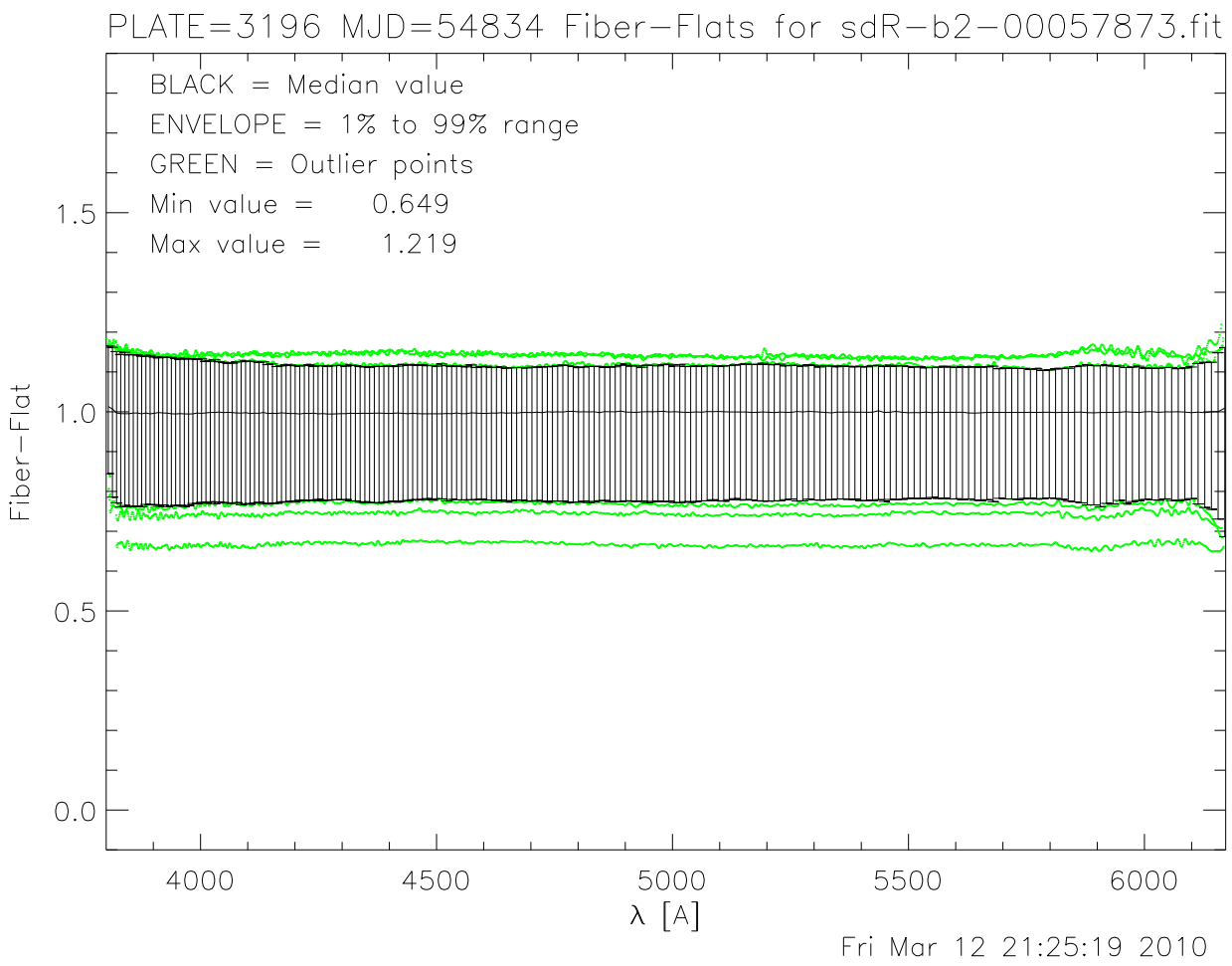

PLATE=3196 MJD=54834 sdR-b2-00057876.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

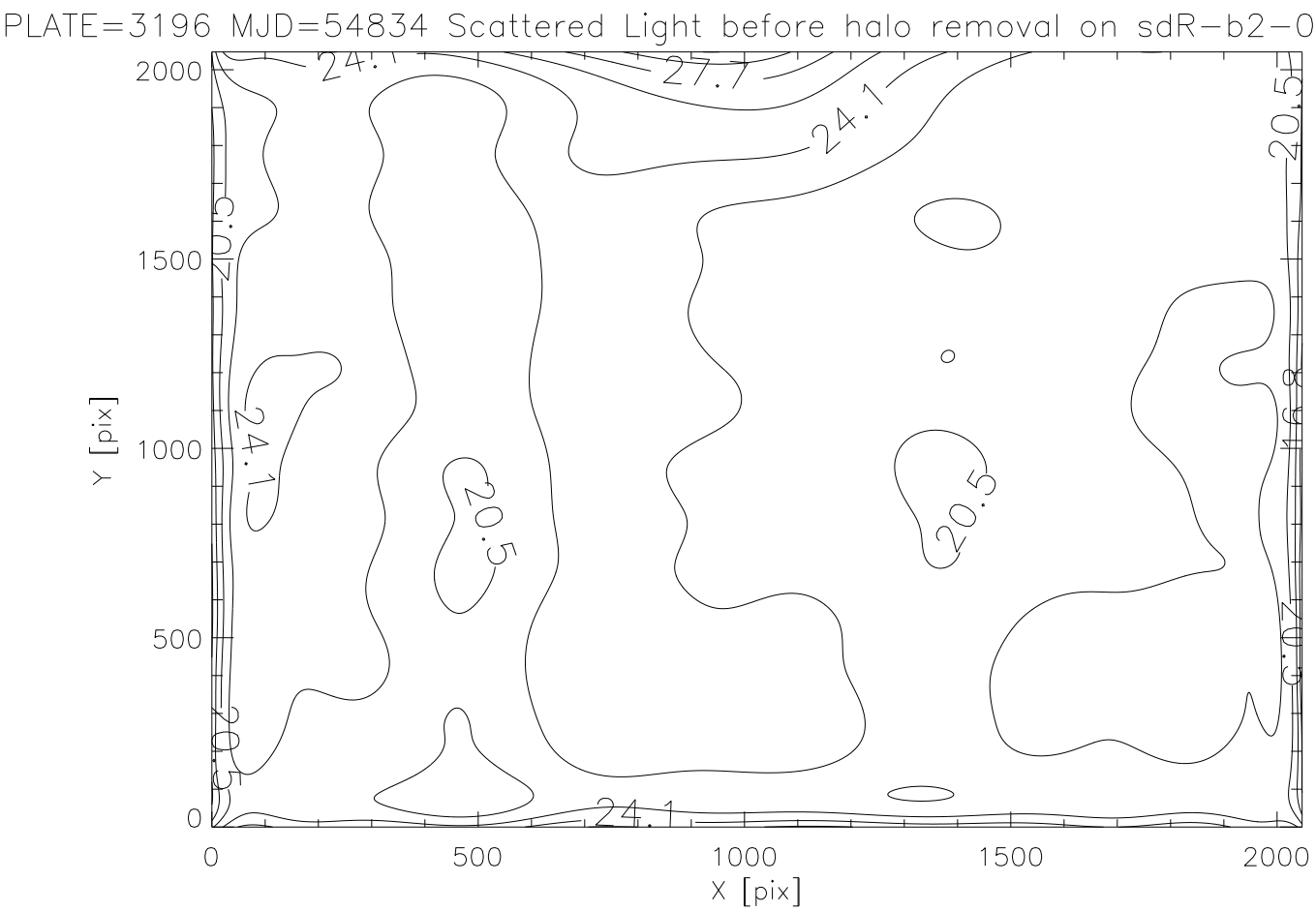

PLATE=3196 MJD=54834 sdR-b2-00057876.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

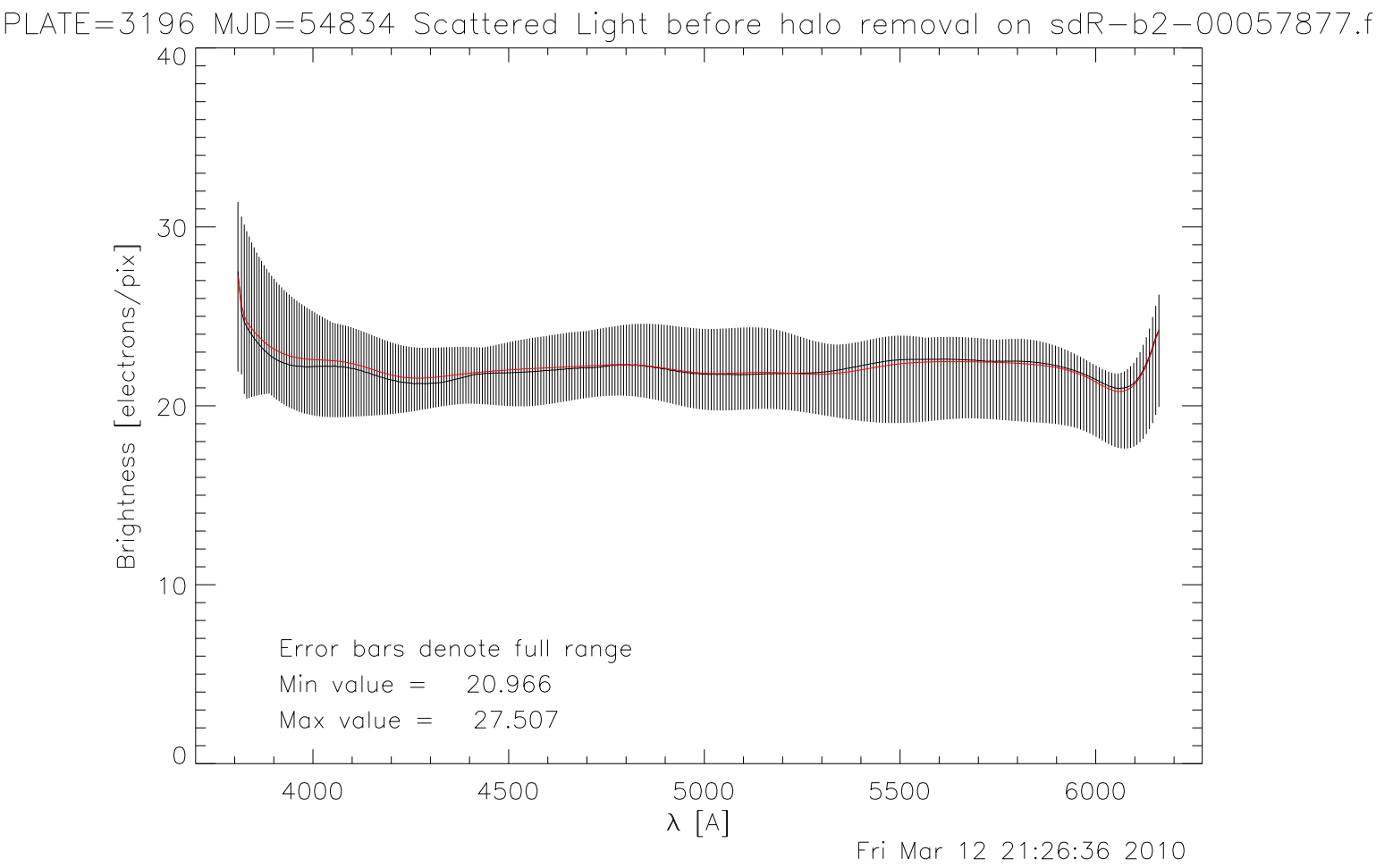

Number of sky fibers = 16
PLATE=3196 MJD=54834 sdR-b2-00057876.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

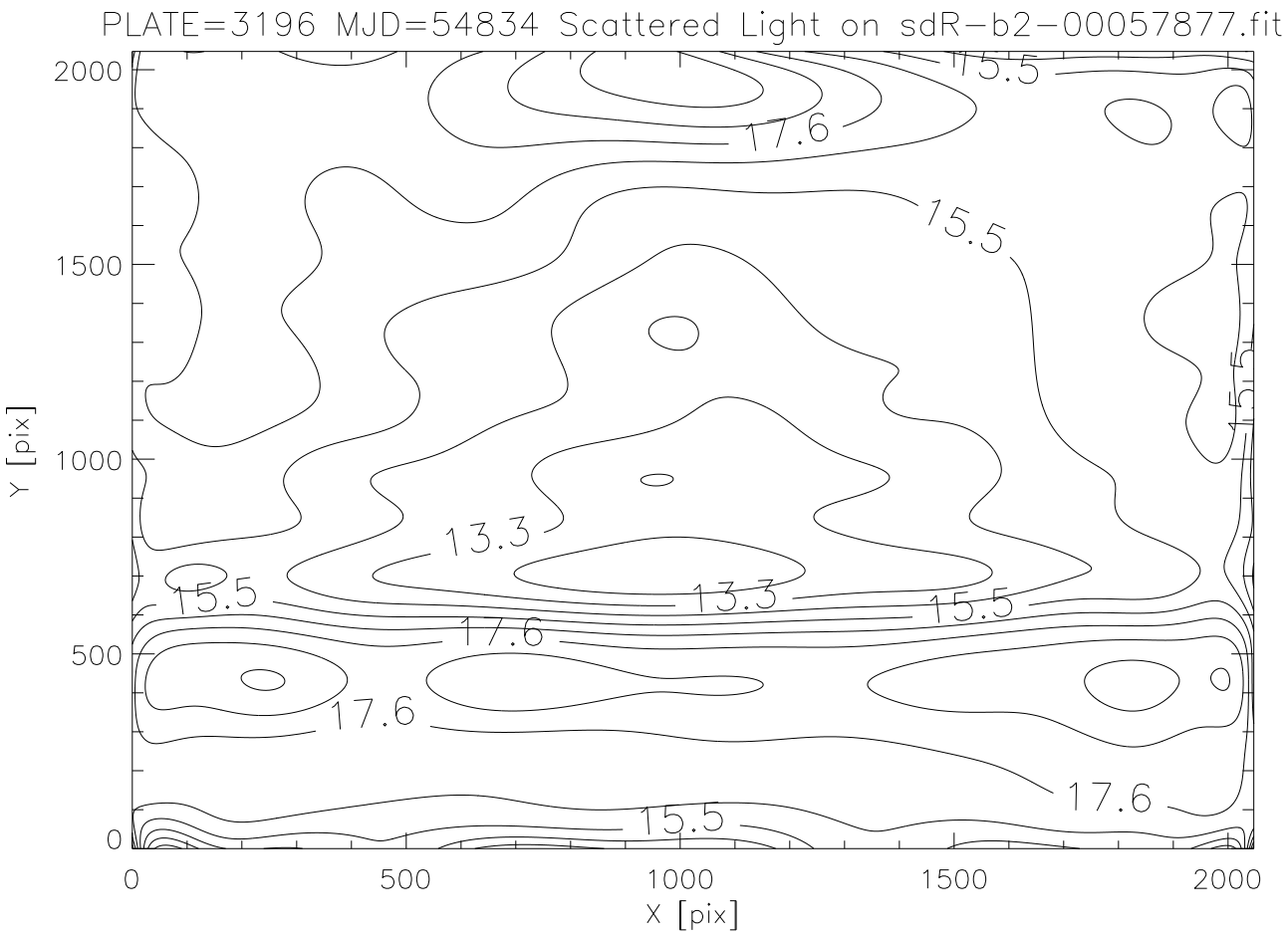

PLATE=3196 MJD=54834 sdR-b2-00057876.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 7.79 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

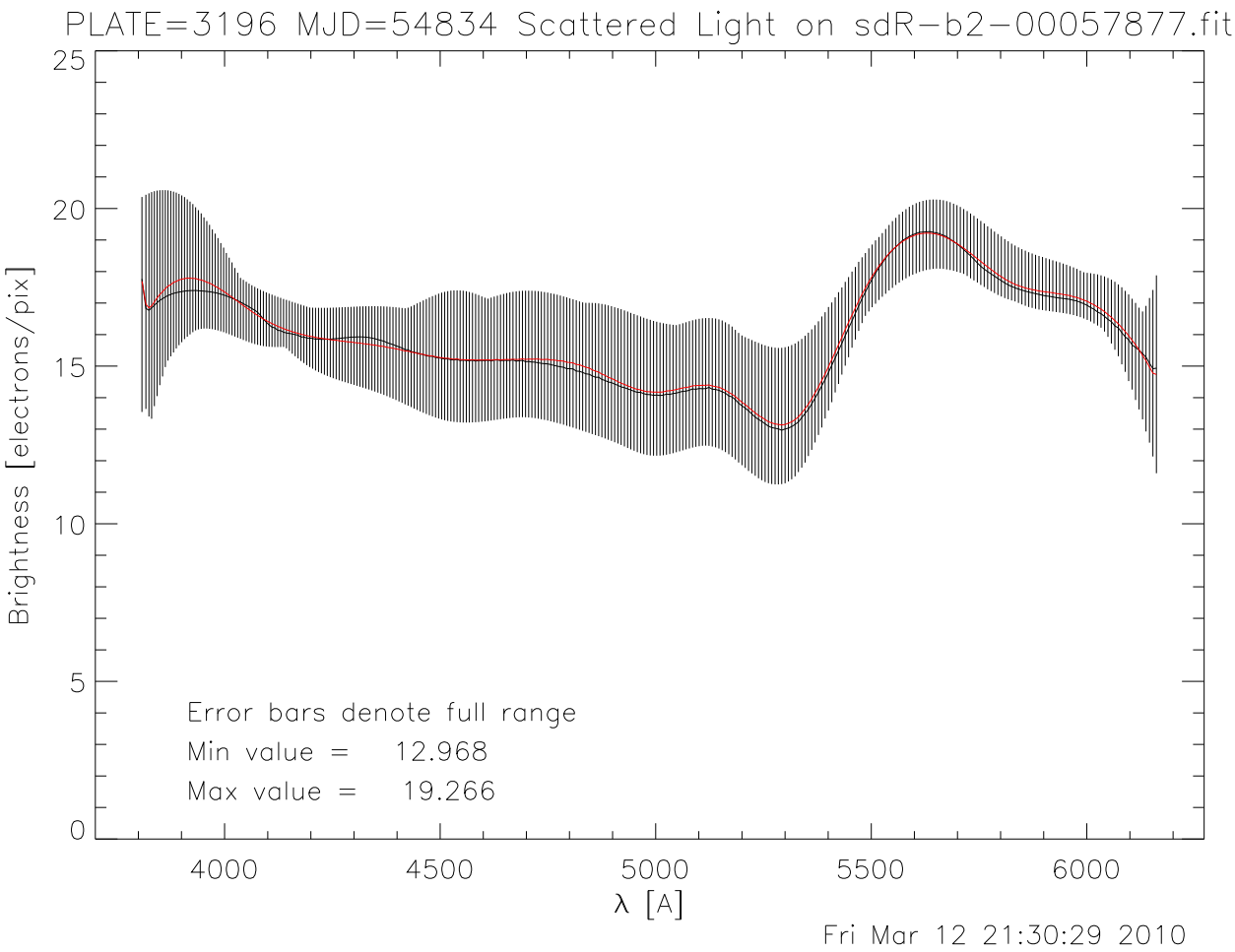

PLATE=3196 MJD=54834 sdR-b2-00057876.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.37 %
Fiber number
Focal Distance [mm]
Airmass

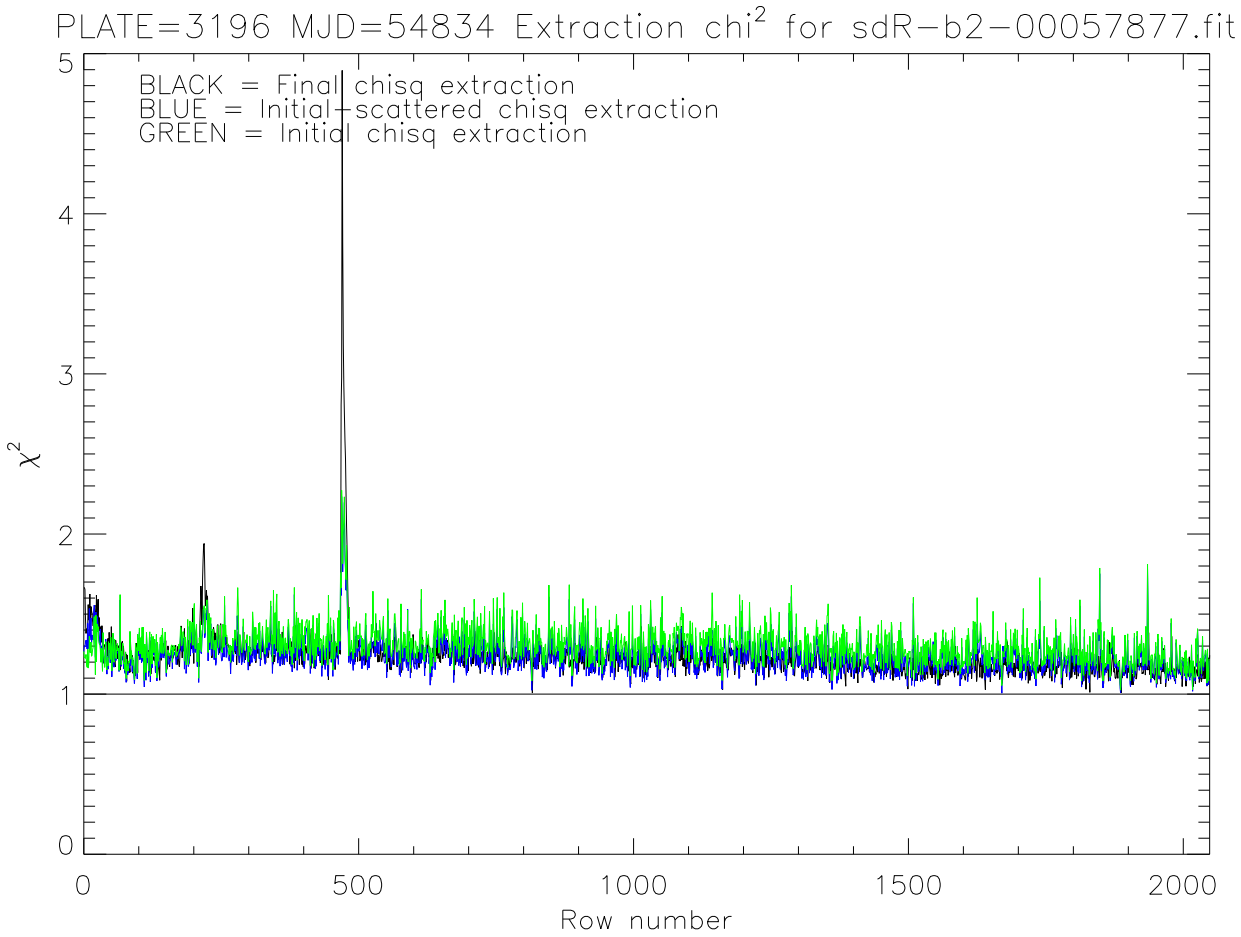

PLATE=3196 MJD=54834 Fiber−Flats for sdR−b2−00057873.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.649
Max value = 1.219
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Fri Mar 12 21:25:19 2010

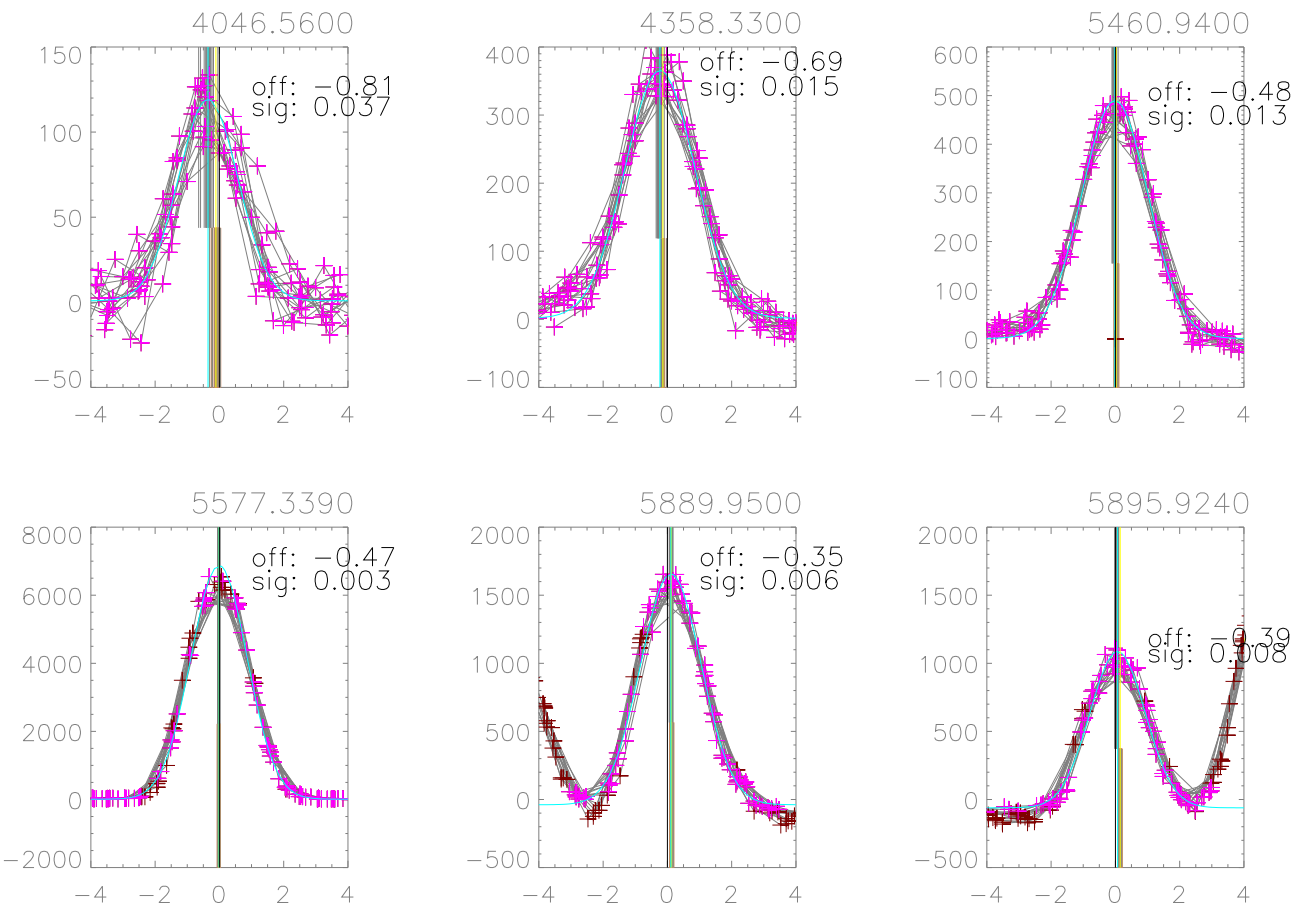

PLATE=3196 MJD=54834 Scattered Light before halo removal on sdR−b2−00057877.f
24.1
27.7
24.1
20.5
20.5
24.1
20.5
20.5
20.5
24.1
20.5
24.1
Y [pix]
X [pix]
0
500
1000
1500
2000

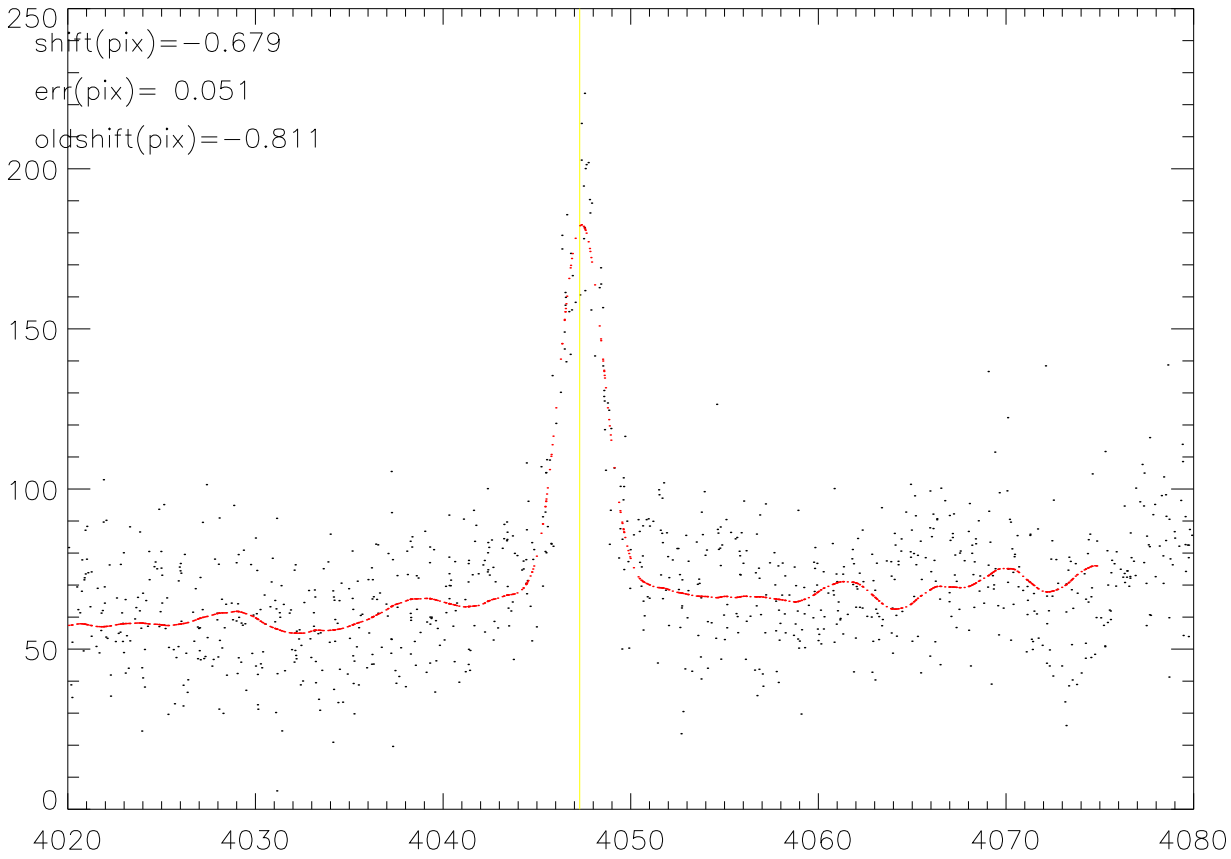

PLATE=3196 MJD=54834 Scattered Light before halo removal on sdR-b2-00057877.f
Brightness [electrons/pix]
40
30
20
10
0
Error bars denote full range
Min value = 20.966
Max value = 27.507
4000
4500
5000
5500
6000
λ [A]
Fri Mar 12 21:26:36 2010

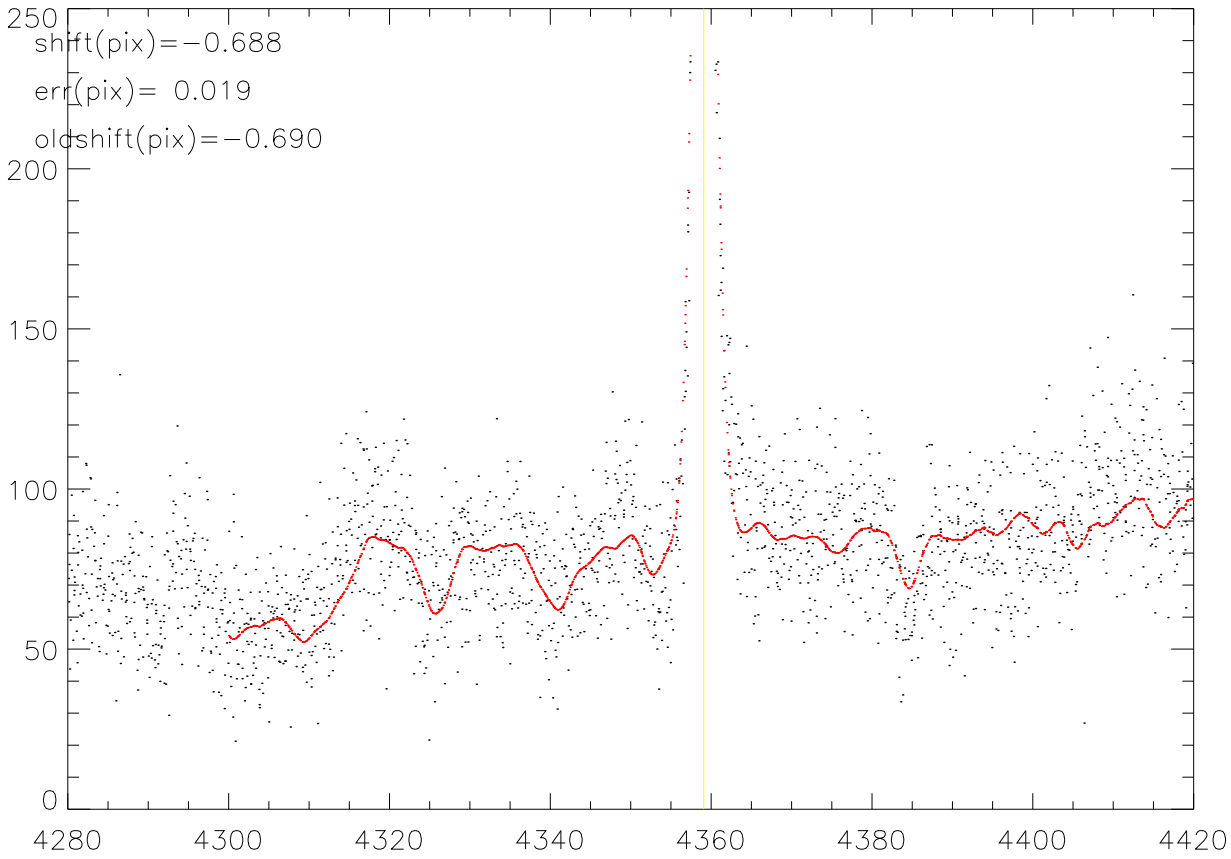

PLATE=3196 MJD=54834 Scattered Light on sdR-b2-00057877.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
15.5
17.6
13.3

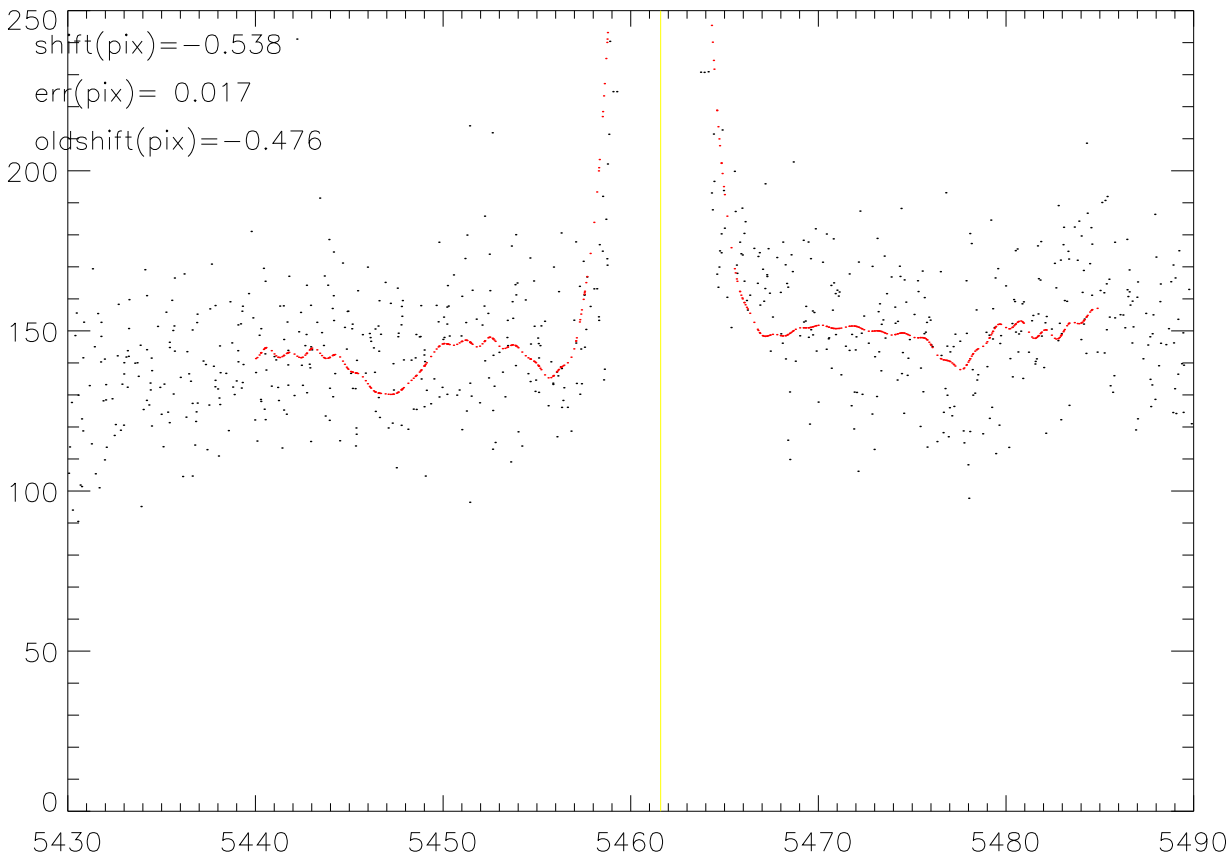

PLATE=3196 MJD=54834 Scattered Light on sdR-b2-00057877.fit
Brightness [electrons/pix]
25
20
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 12.968
Max value = 19.266
Fri Mar 12 21:30:29 2010

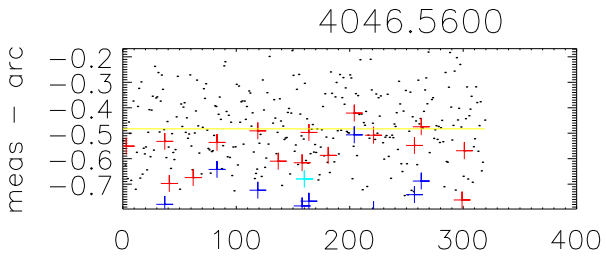

PLATE=3196 MJD=54834 Extraction chi^2 for sdR-b2-00057877.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

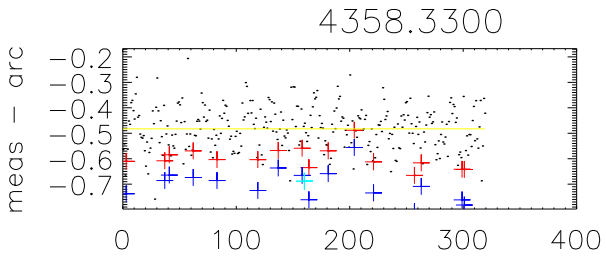

4046.5600
off: −0.81
sig: 0.037
4358.3300
off: −0.69
sig: 0.015
5460.9400
off: −0.48
sig: 0.013
5577.3390
off: −0.47
sig: 0.003
5889.9500
off: −0.35
sig: 0.006
5895.9240
off: −0.39
sig: 0.008

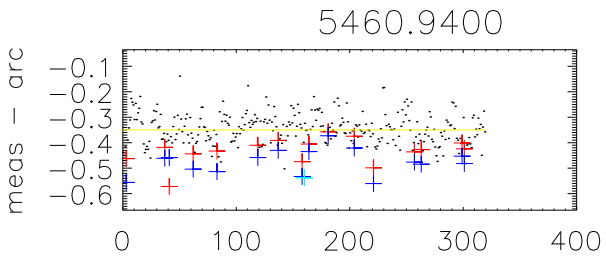

shift(pix)=−0.679
err(pix)= 0.051
oldshift(pix)=−0.811
250
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

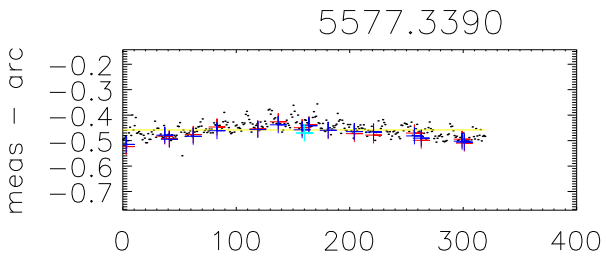

shift(pix)=−0.688
err(pix)= 0.019
oldshift(pix)=−0.690
250
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

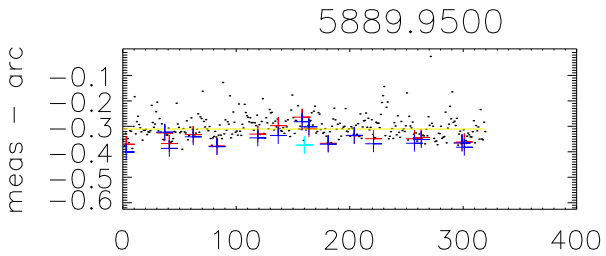

shift(pix)=−0.538
err(pix)= 0.017
oldshift(pix)=−0.476
250
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

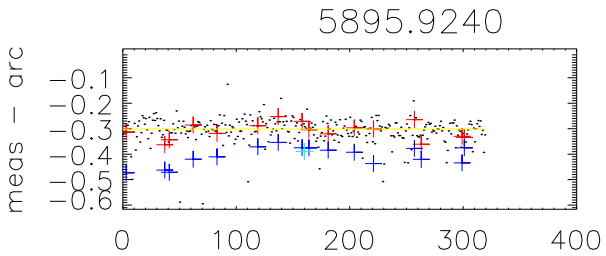

4046.5600
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

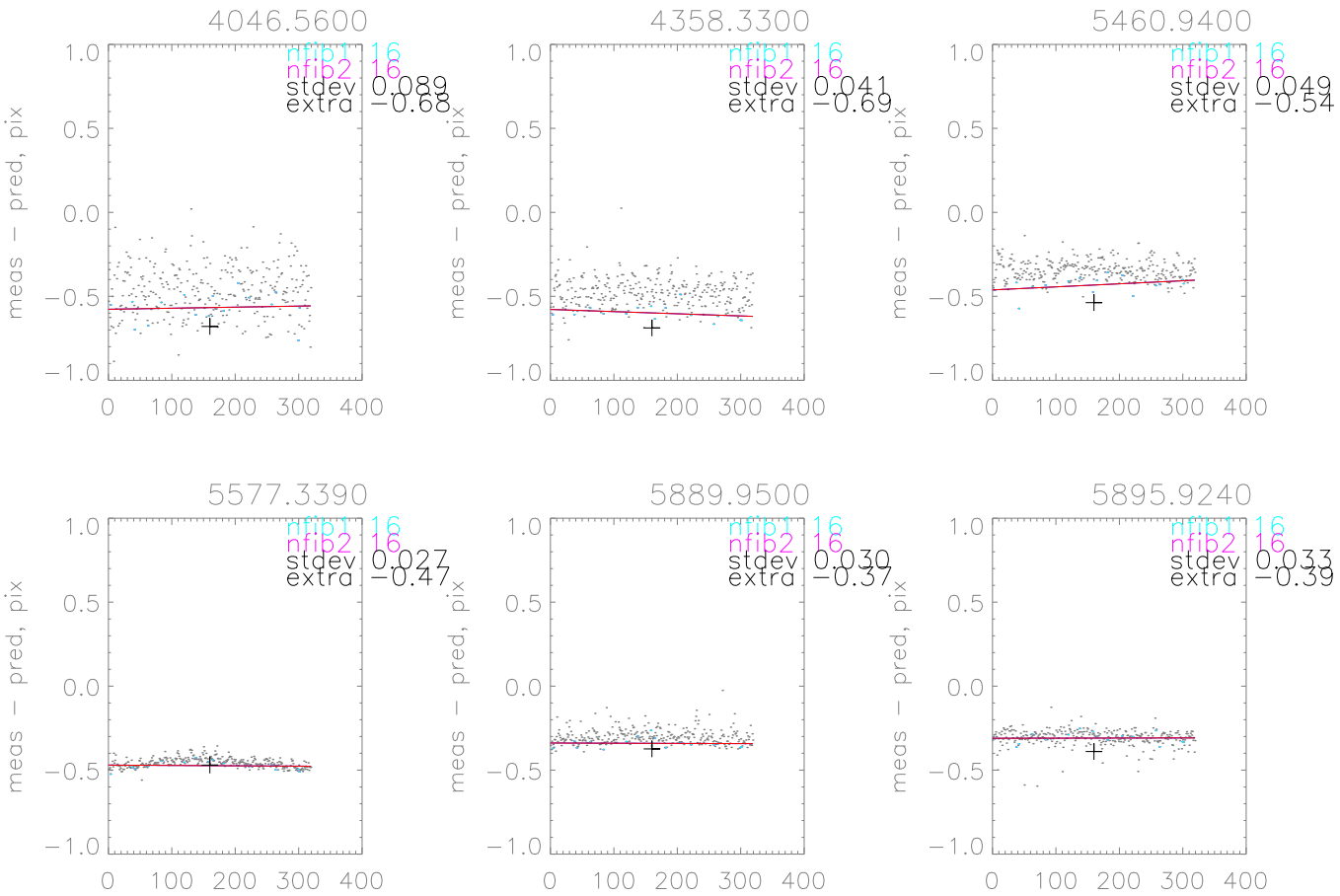

4358.3300
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

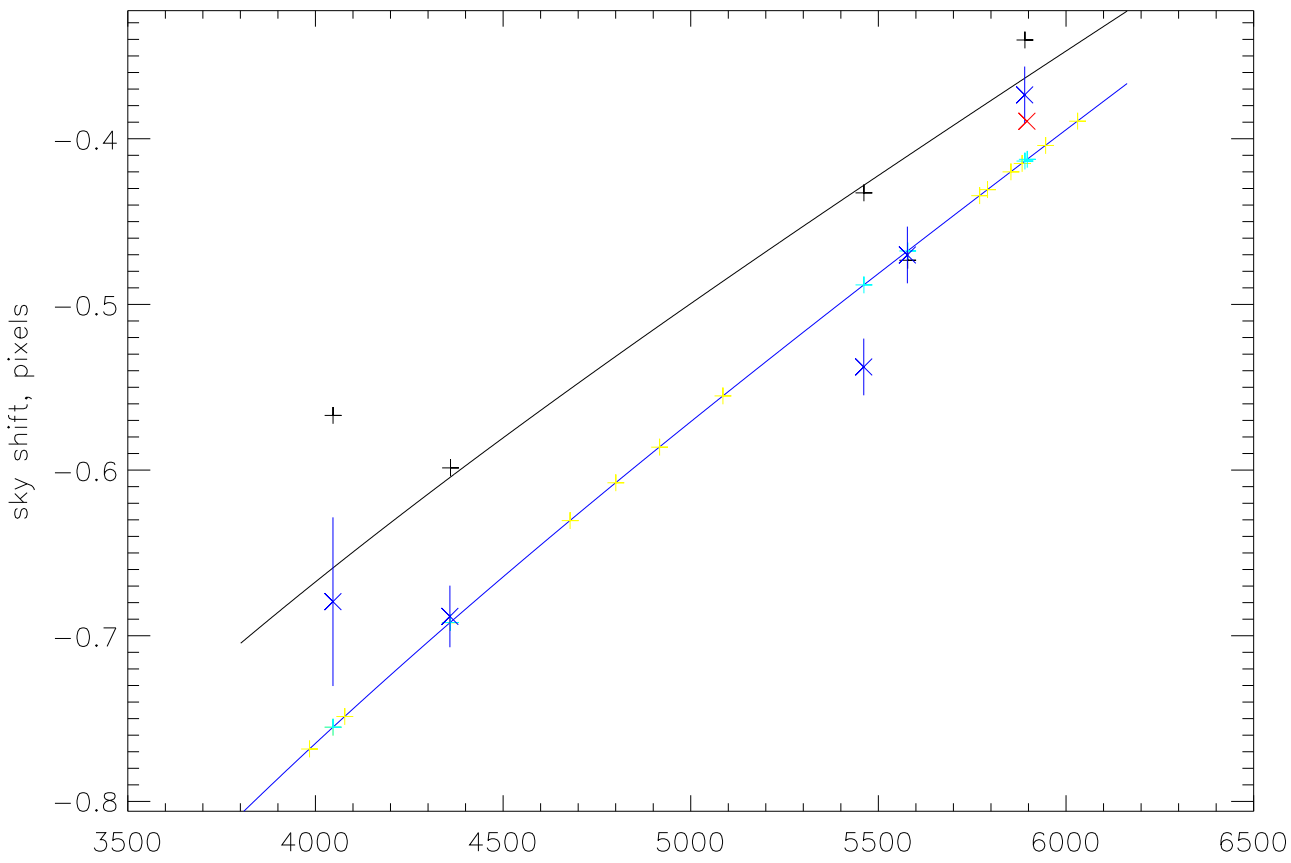

5460.9400
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

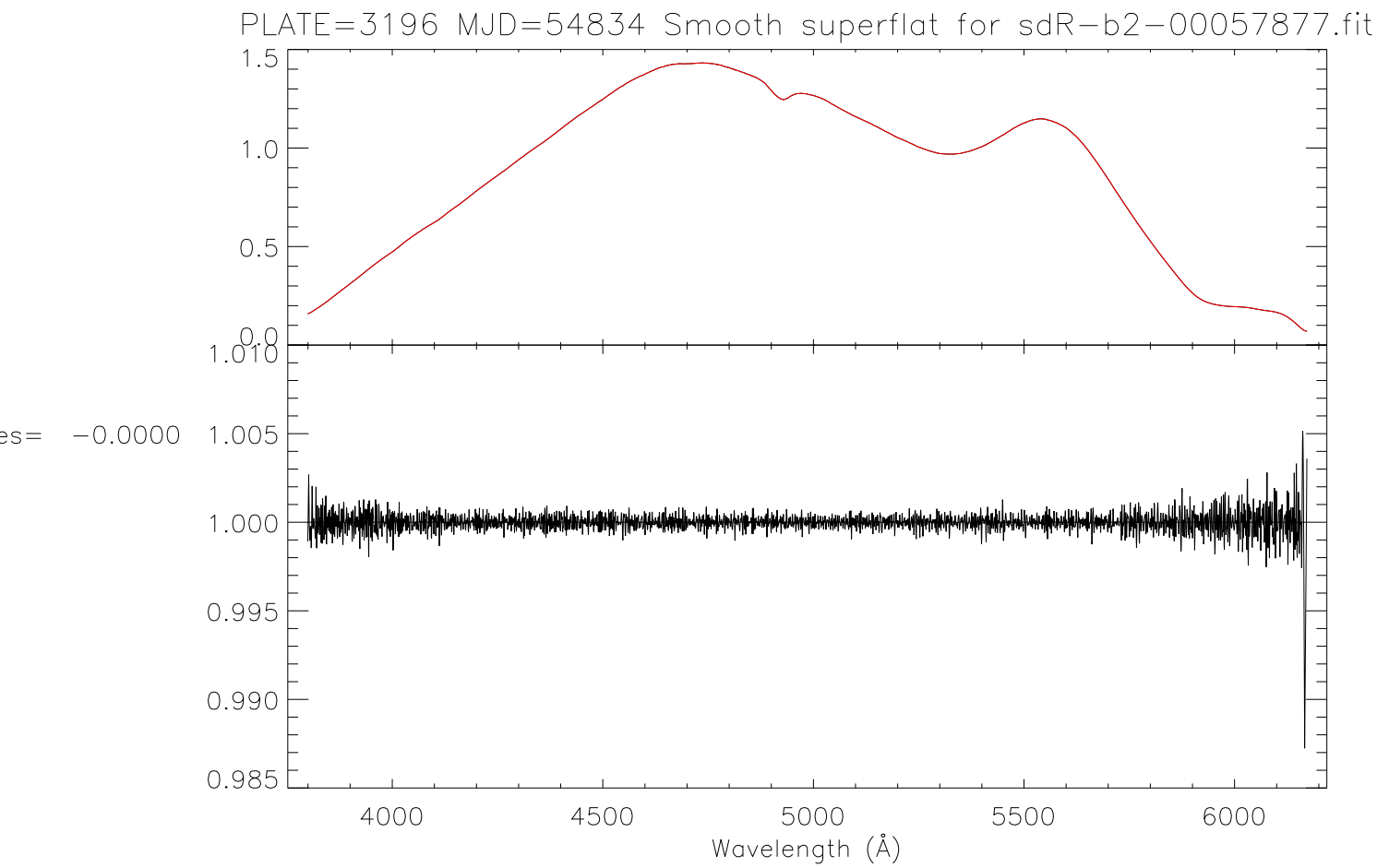

5577.3390
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400


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

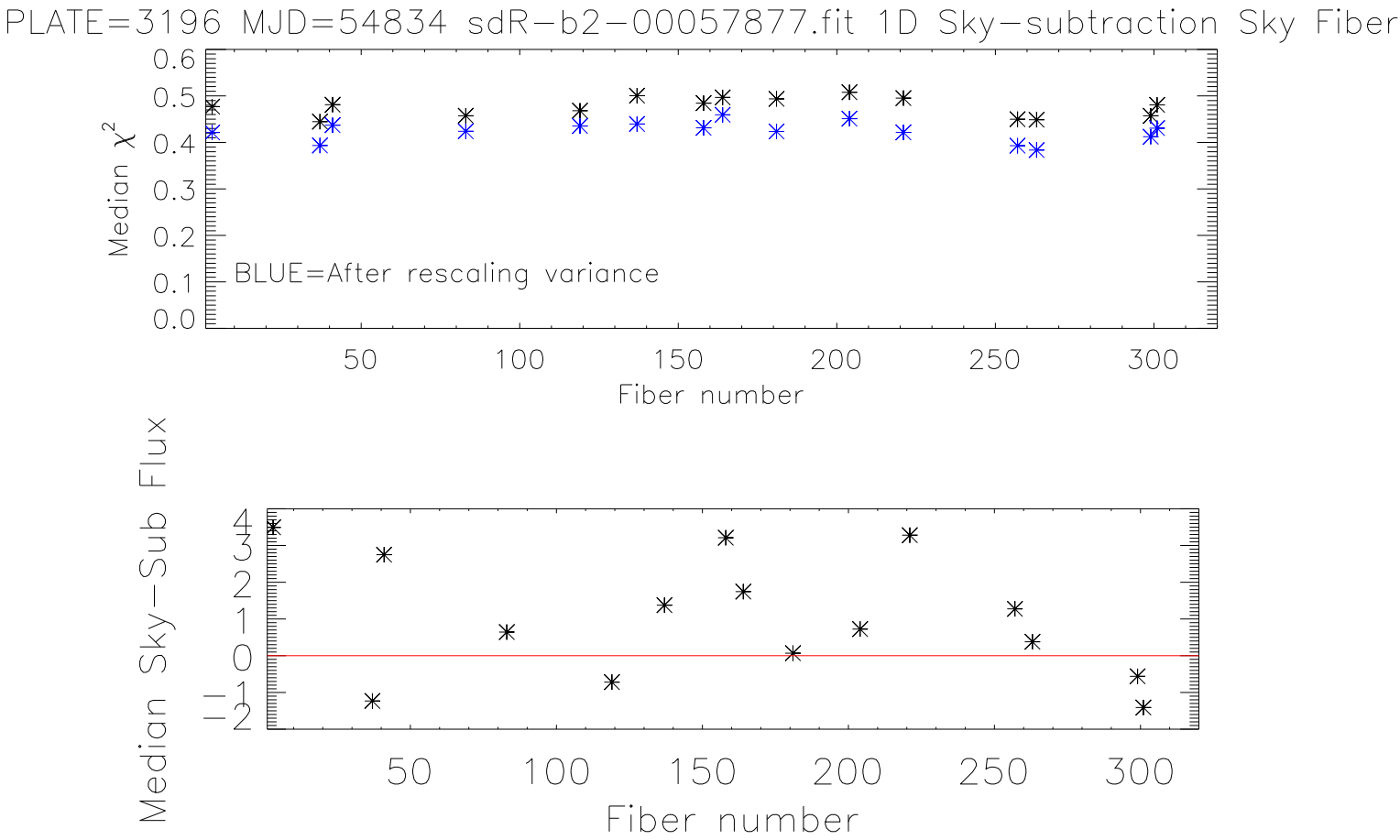

5895.9240
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

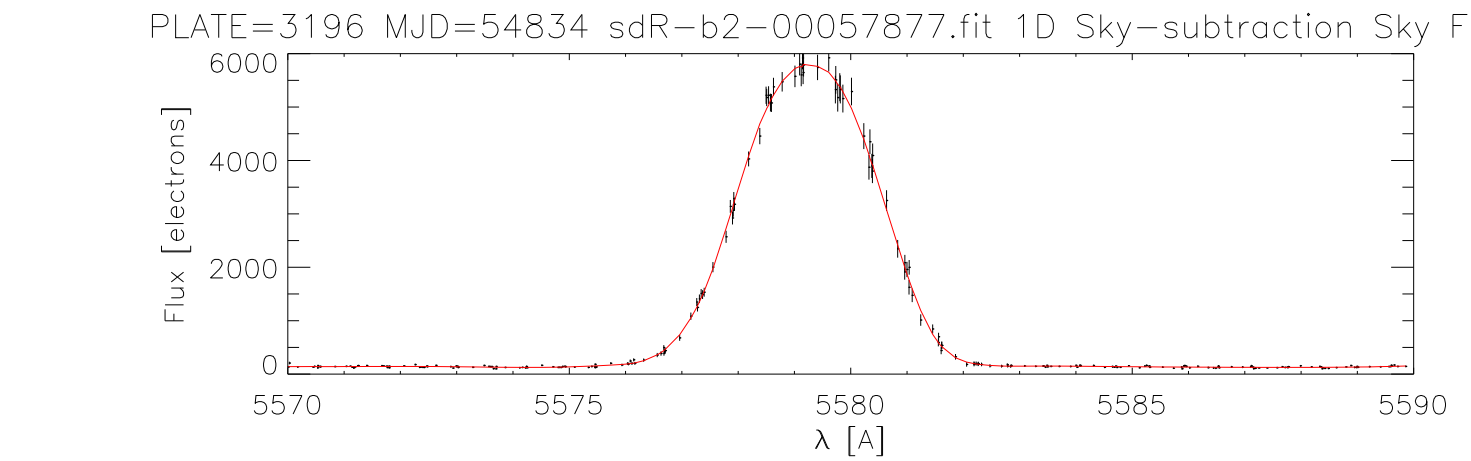

4046.5600
nfib1 16
nfib2 16
stdev 0.089
extra −0.68
4358.3300
nfib1 16
nfib2 16
stdev 0.041
extra −0.69
5460.9400
nfib1 16
nfib2 16
stdev 0.049
extra −0.54
5577.3390
nfib1 16
nfib2 16
stdev 0.027
extra −0.47
5889.9500
nfib1 16
nfib2 16
stdev 0.030
extra −0.37
5895.9240
nfib1 16
nfib2 16
stdev 0.033
extra −0.39
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

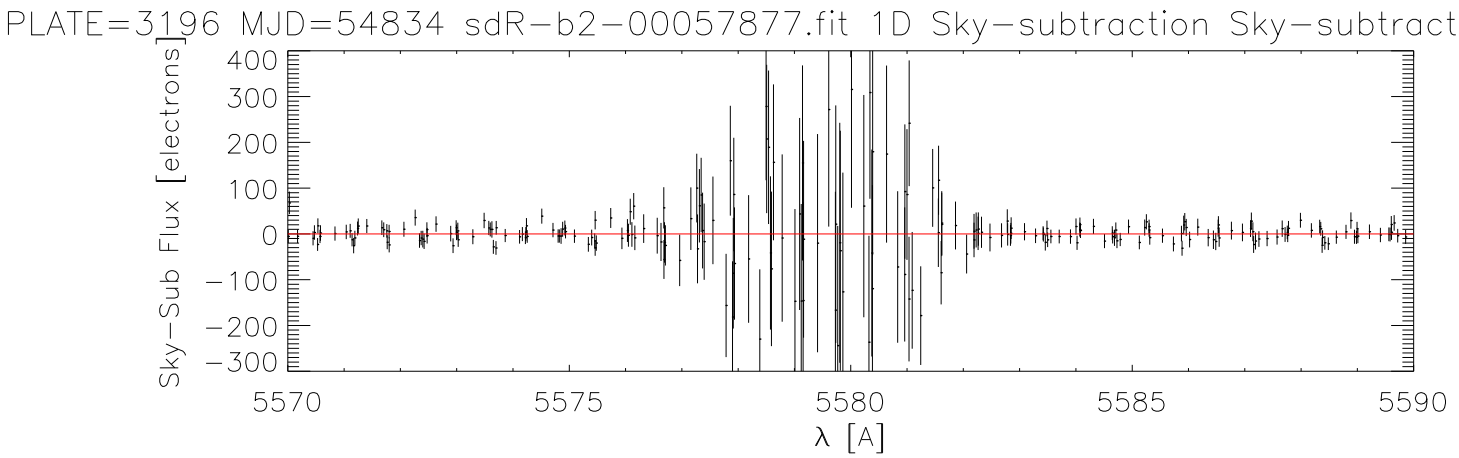

sky shift, pixels
−0.4
−0.5
−0.6
−0.7
−0.8
3500
4000
4500
5000
5500
6000
6500

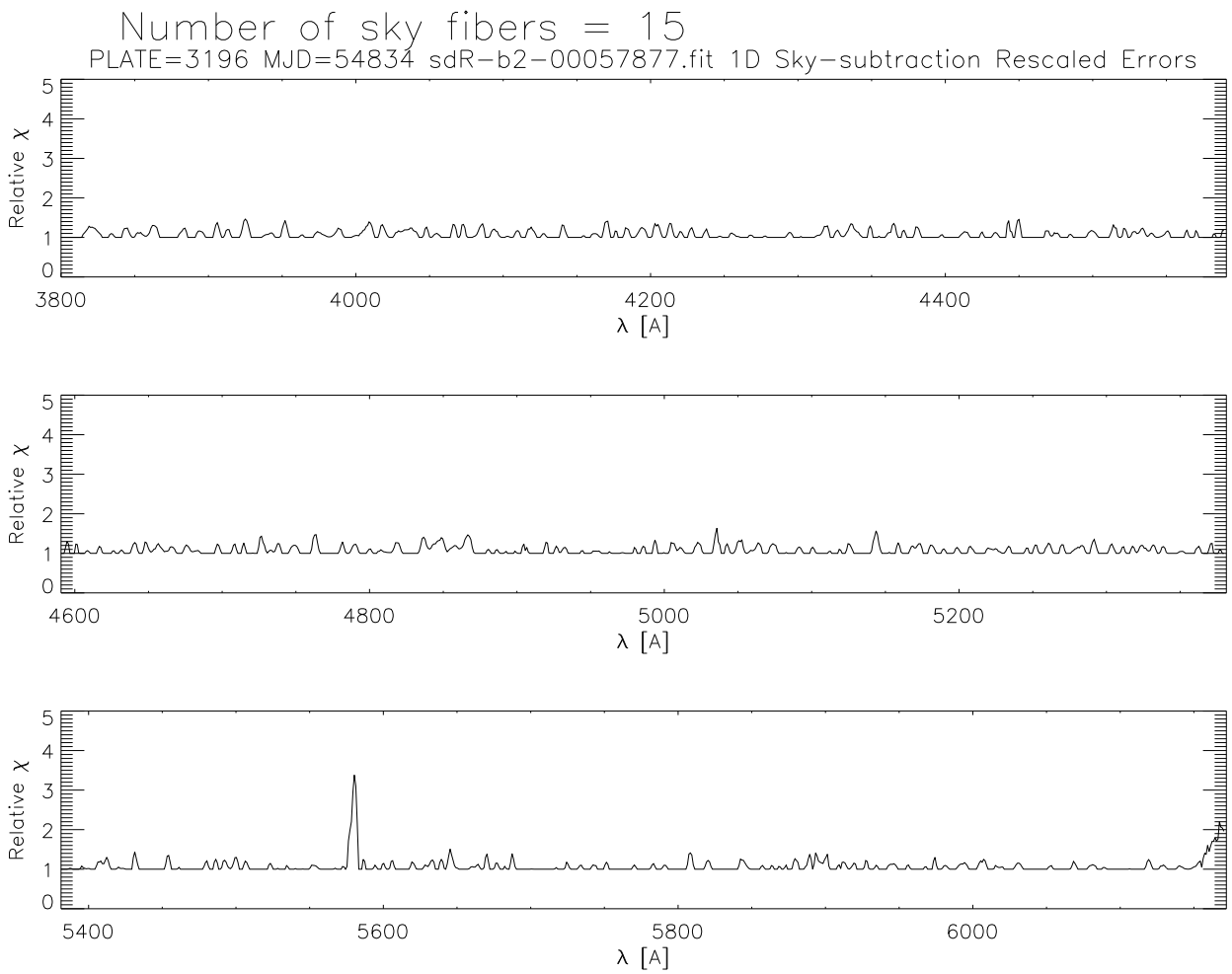

PLATE=3196 MJD=54834 Smooth superflat for sdR-b2-00057877.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
4000
4500
5000
5500
6000
Wavelength (Å)

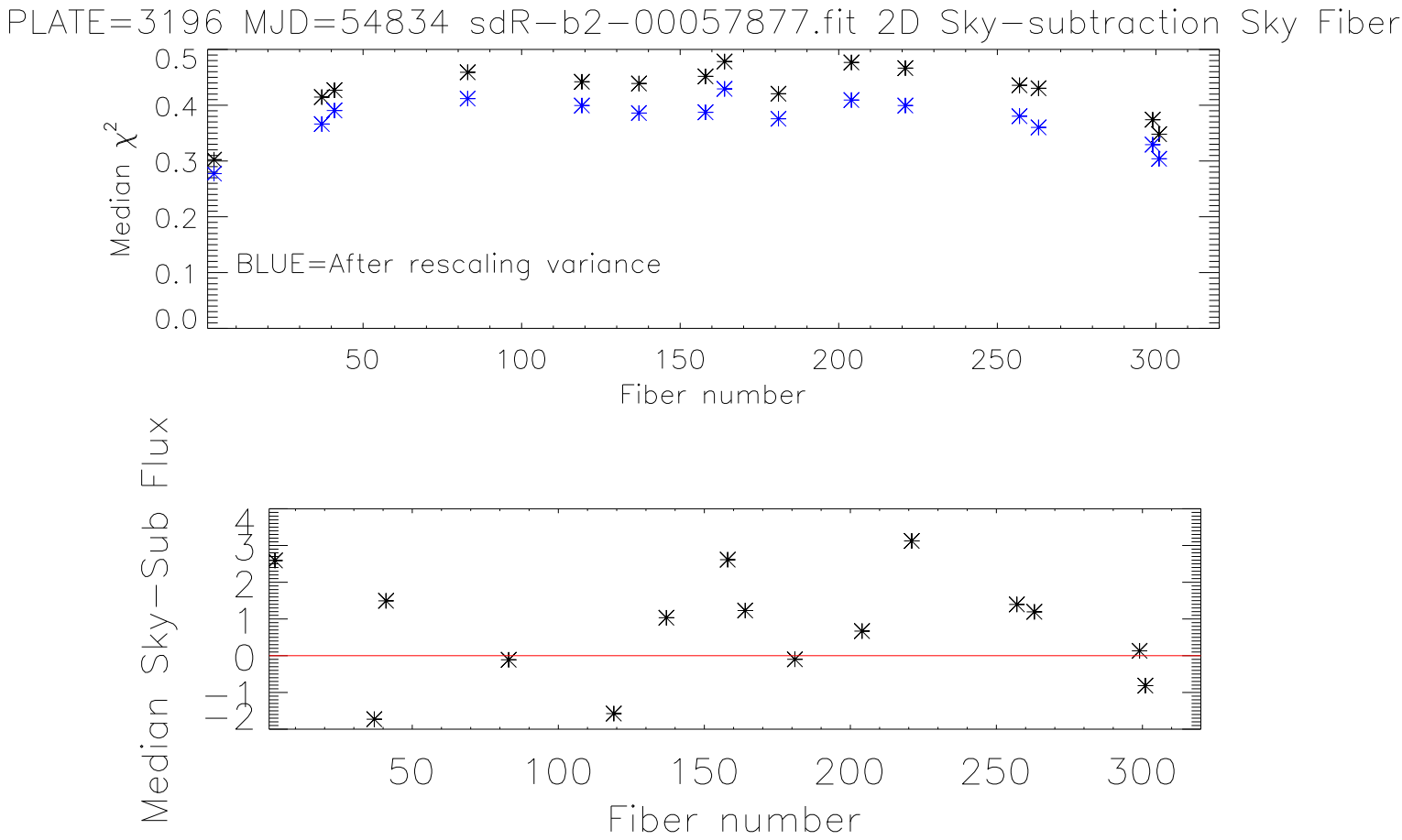
es= −0.0000

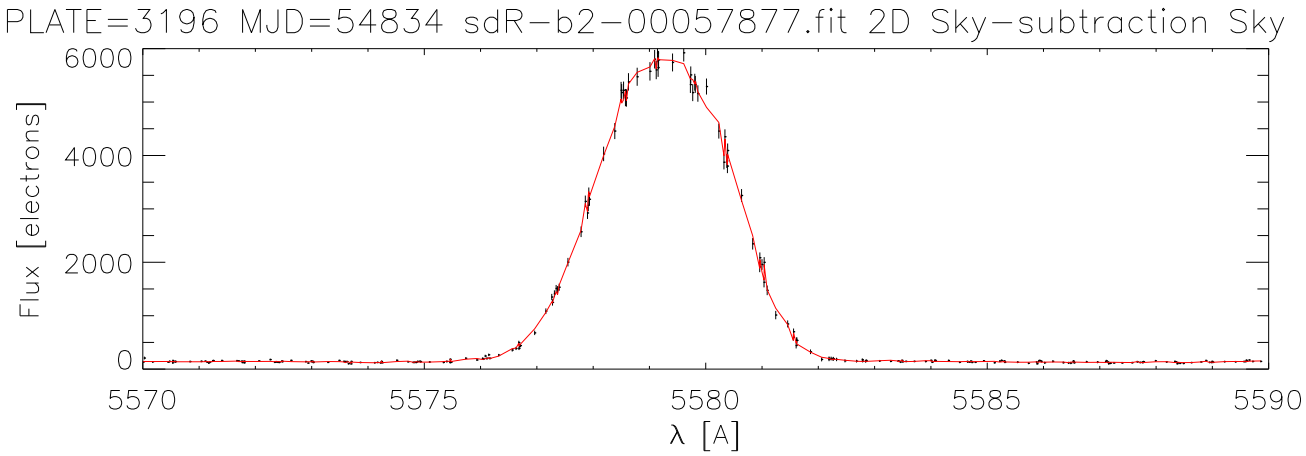

PLATE=3196 MJD=54834 sdR-b2-00057877.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

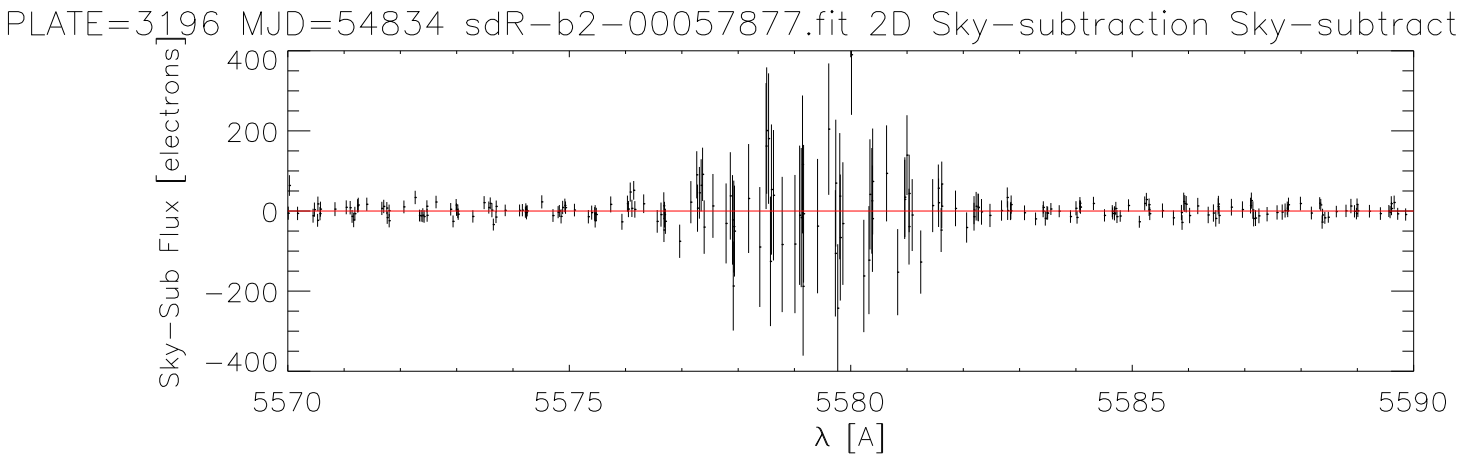

PLATE=3196 MJD=54834 sdR-b2-00057877.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

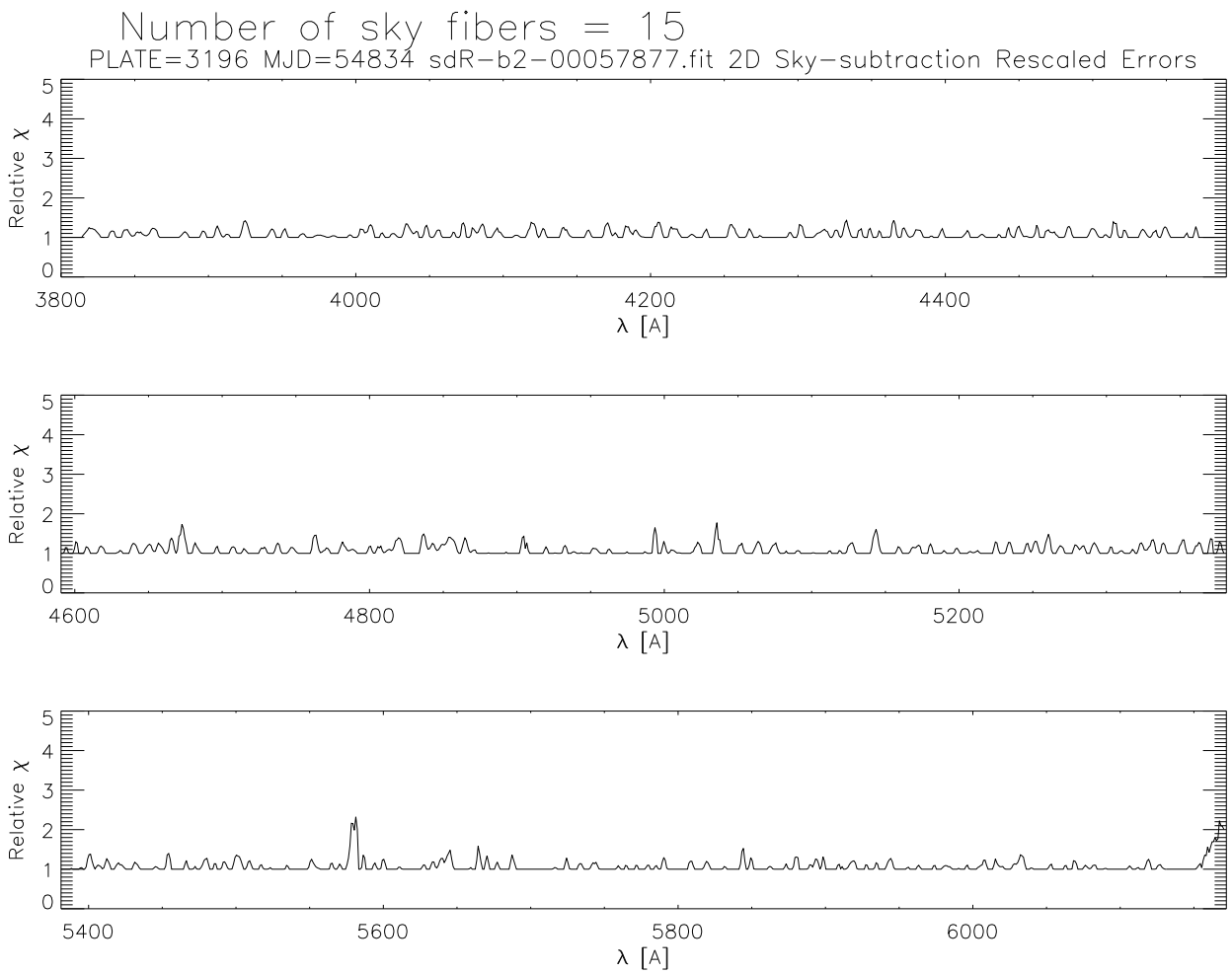

PLATE=3196 MJD=54834 sdR-b2-00057877.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

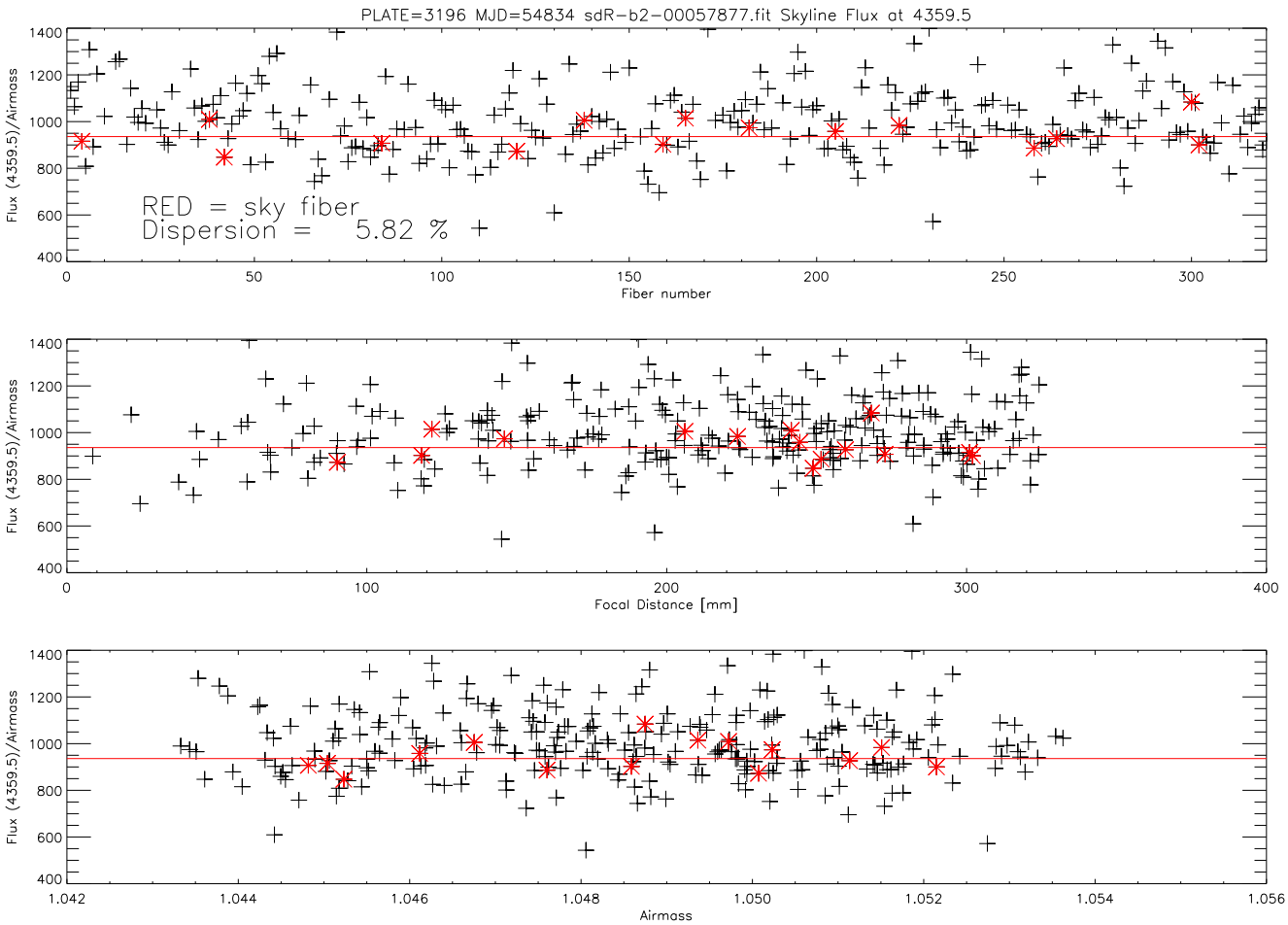

Number of sky fibers = 15
PLATE=3196 MJD=54834 sdR-b2-00057877.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

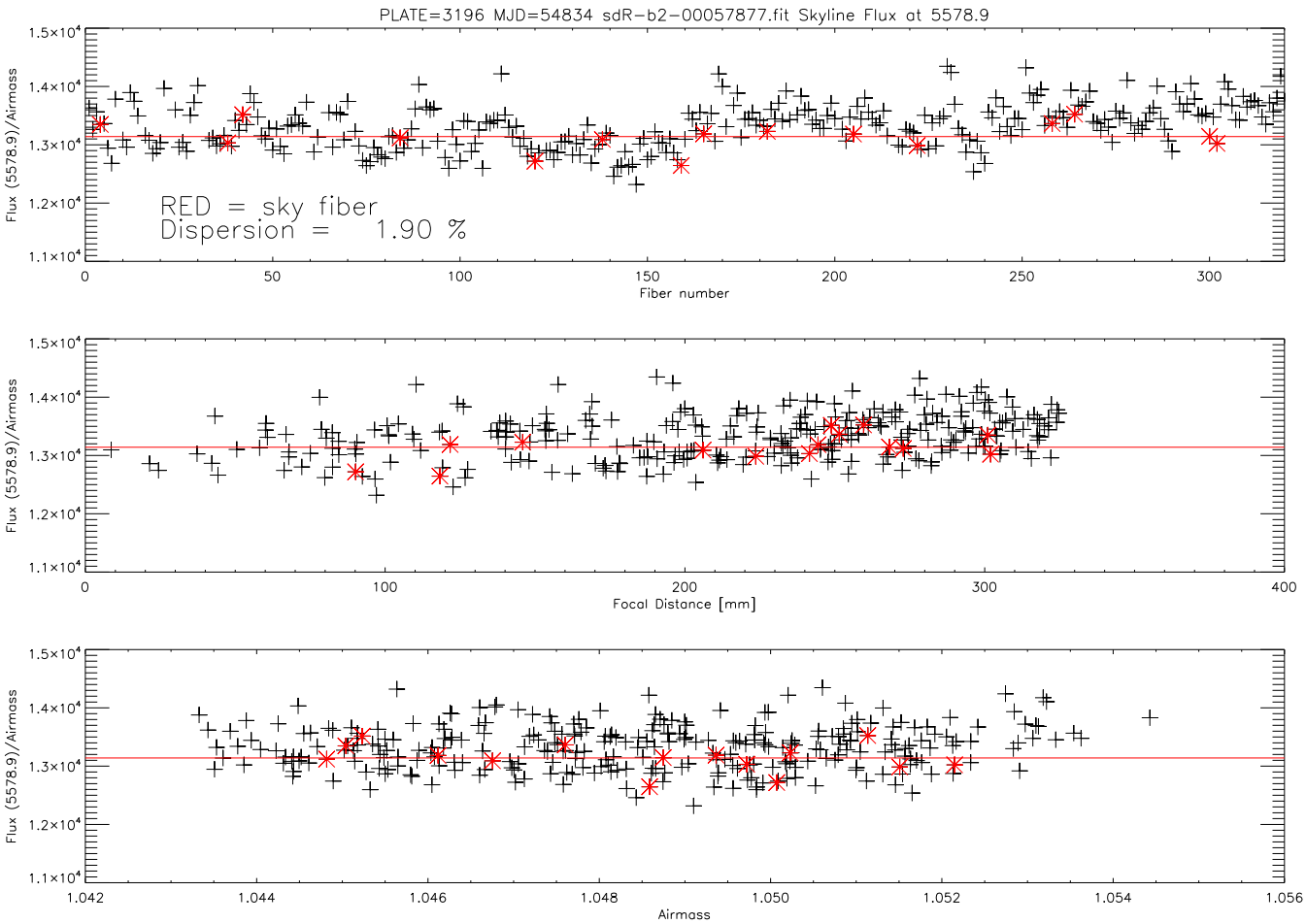

PLATE=3196 MJD=54834 sdR-b2-00057877.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

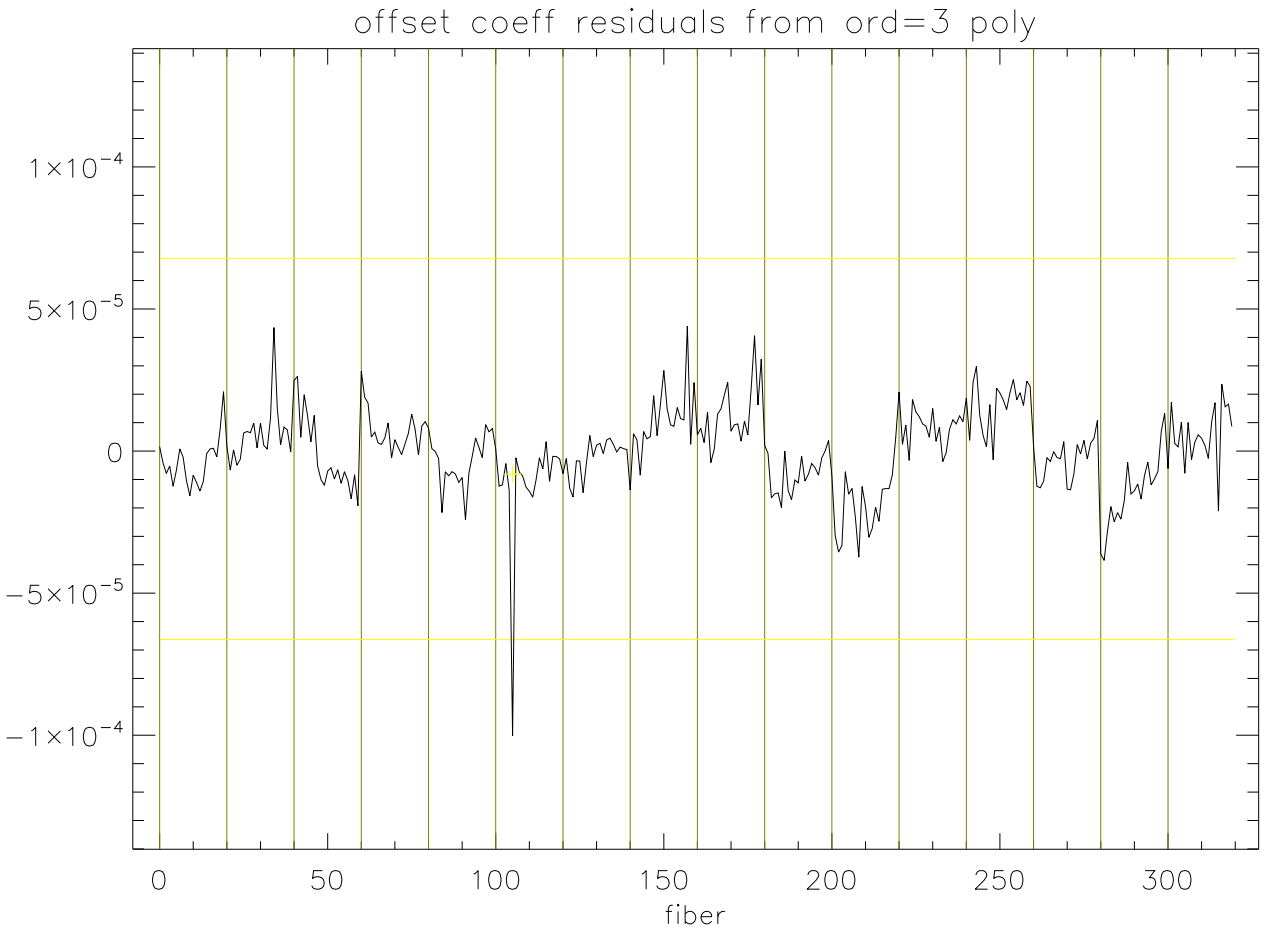

PLATE=3196 MJD=54834 sdR-b2-00057877.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

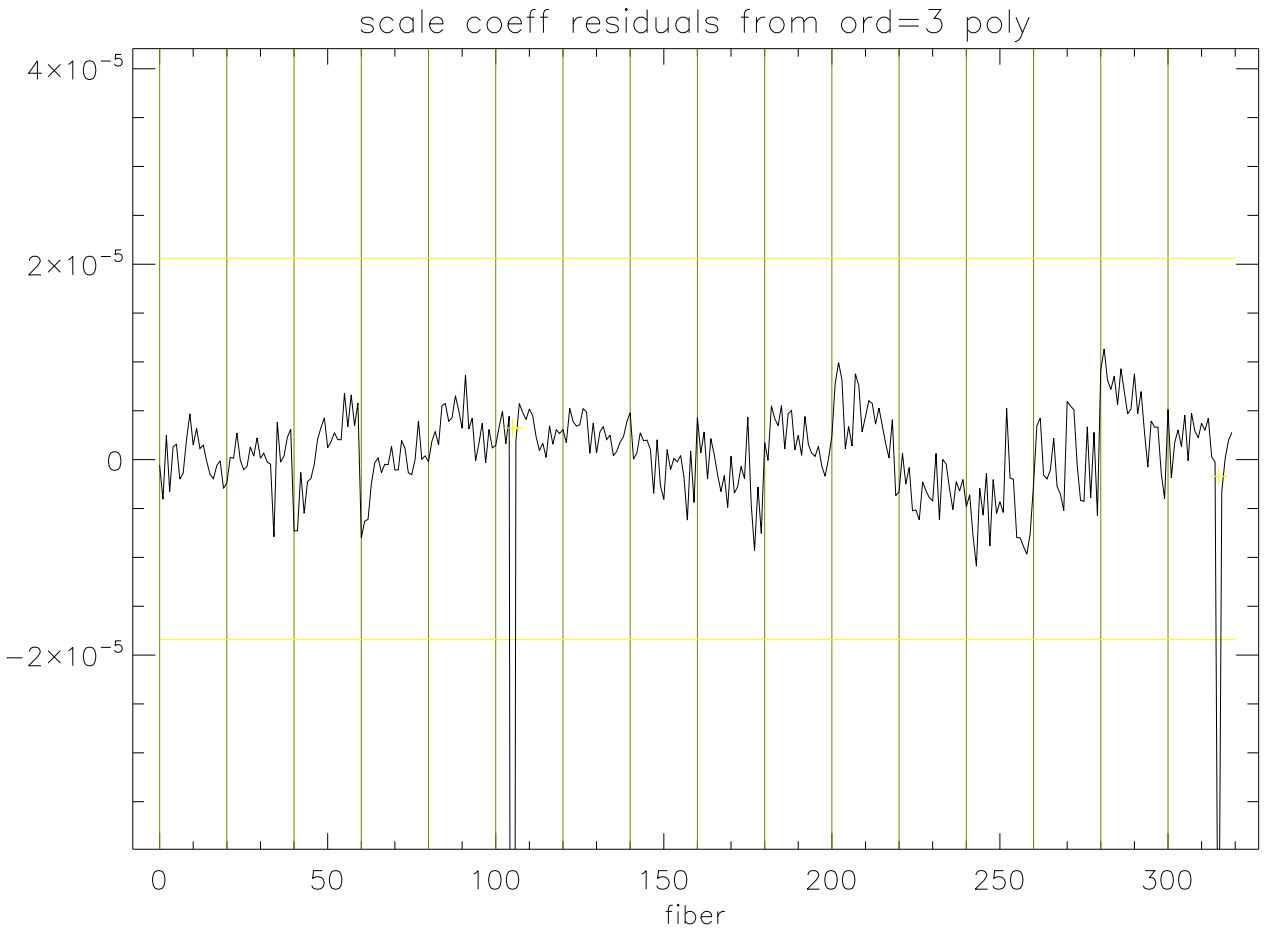

PLATE=3196 MJD=54834 sdR-b2-00057877.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

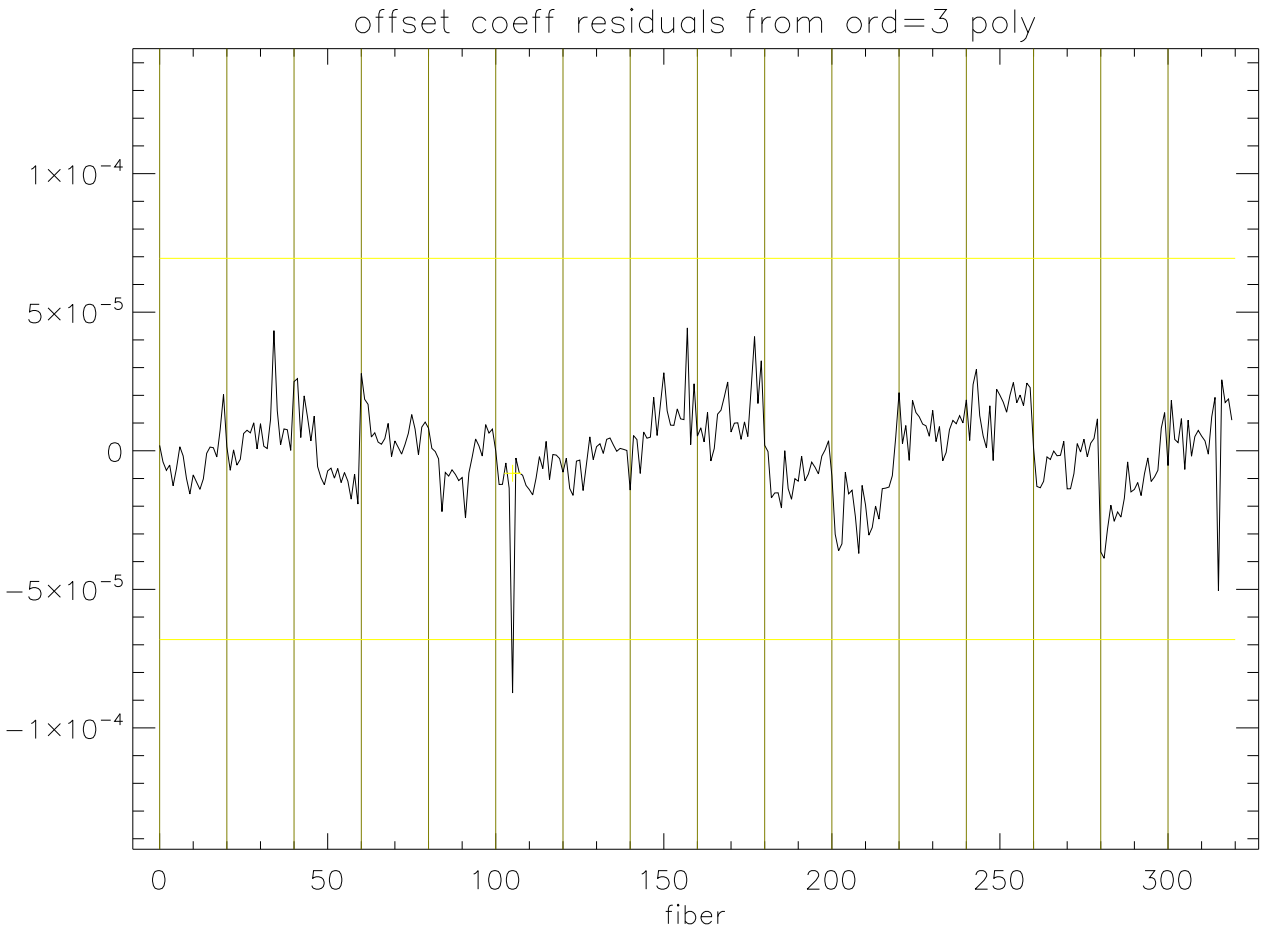

Number of sky fibers = 15
PLATE=3196 MJD=54834 sdR-b2-00057877.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

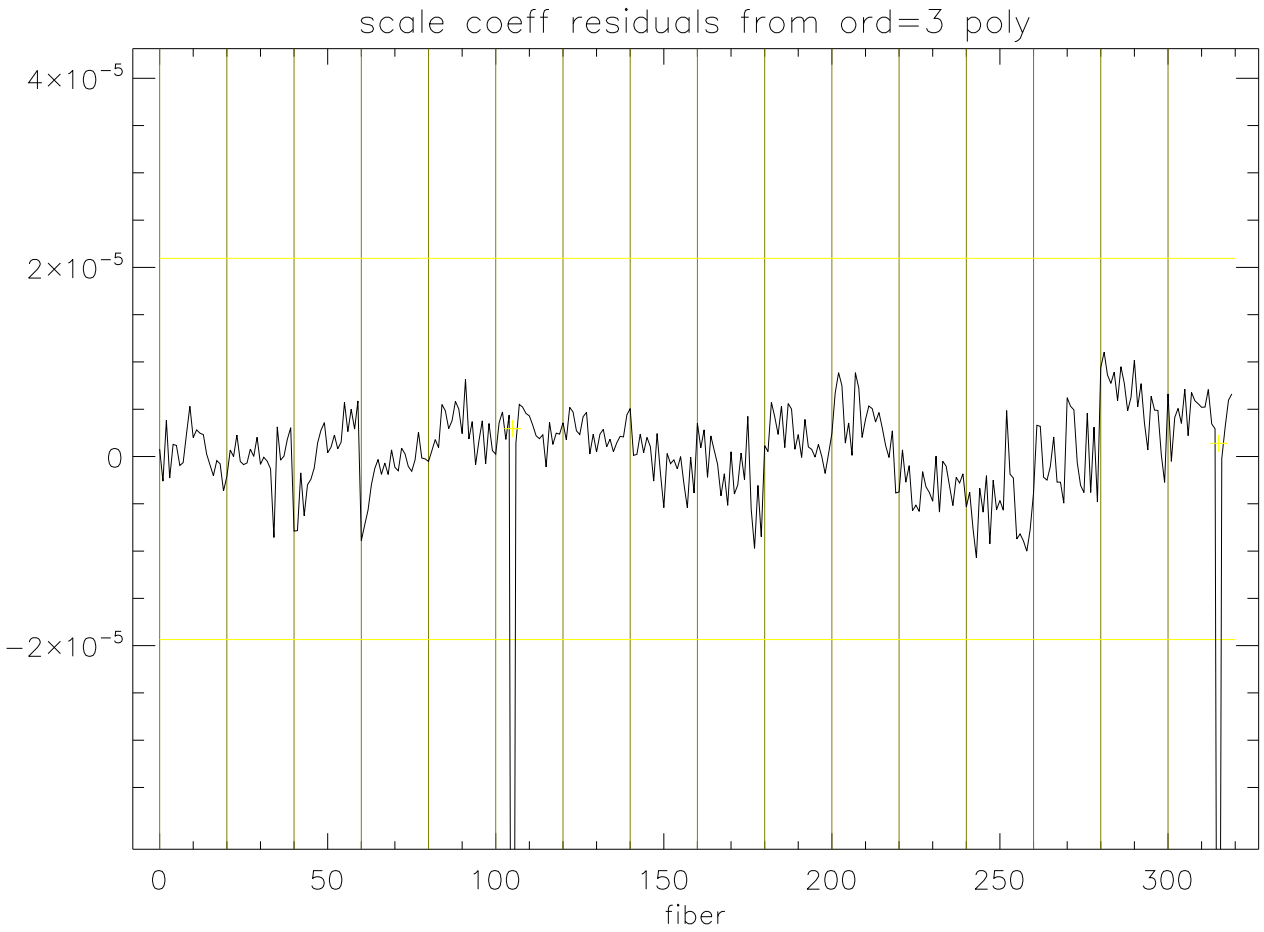

PLATE=3196 MJD=54834 sdR-b2-00057877.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 5.82 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

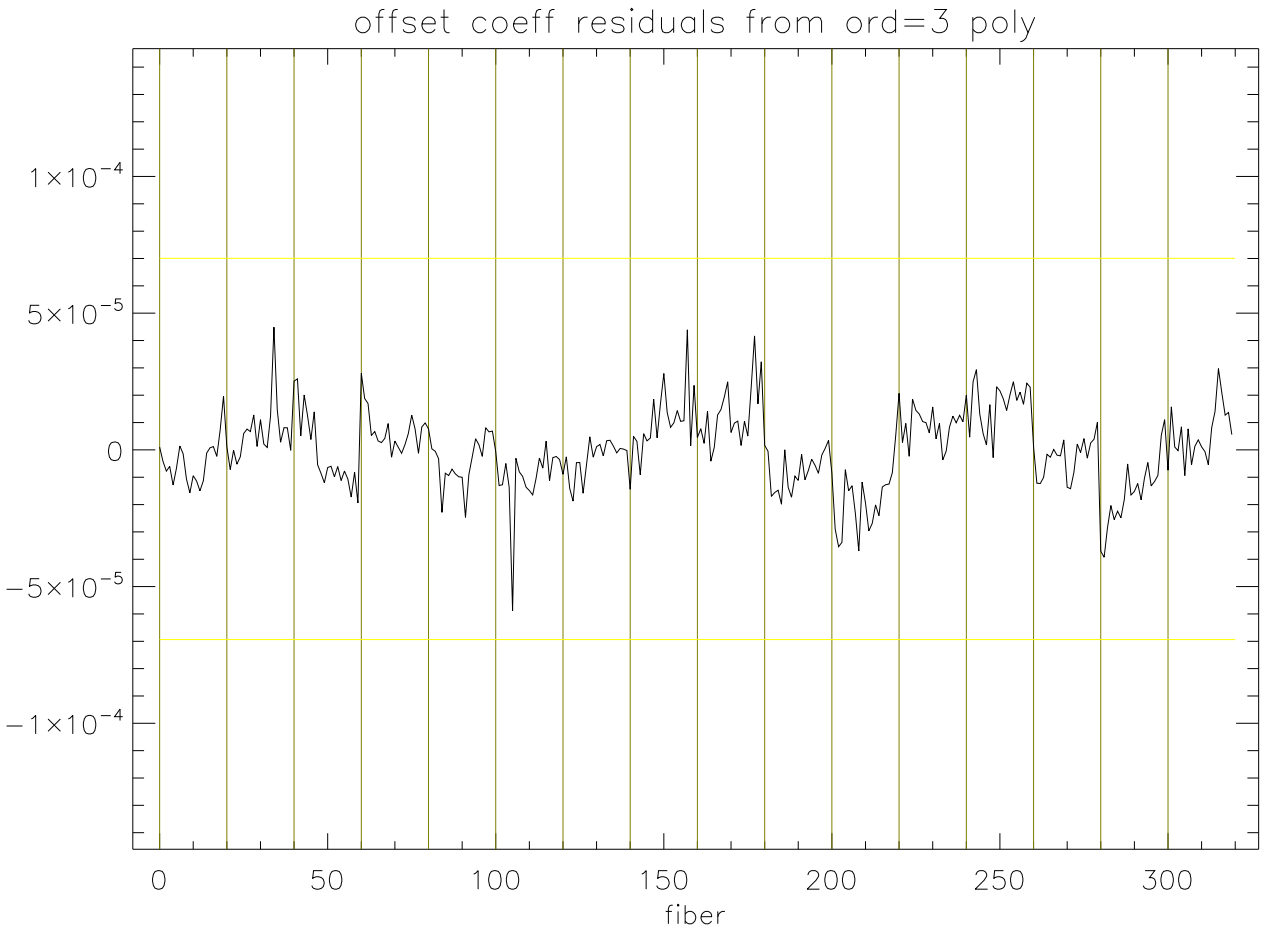

PLATE=3196 MJD=54834 sdR-b2-00057877.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.90 %
Fiber number
Focal Distance [mm]
Airmass

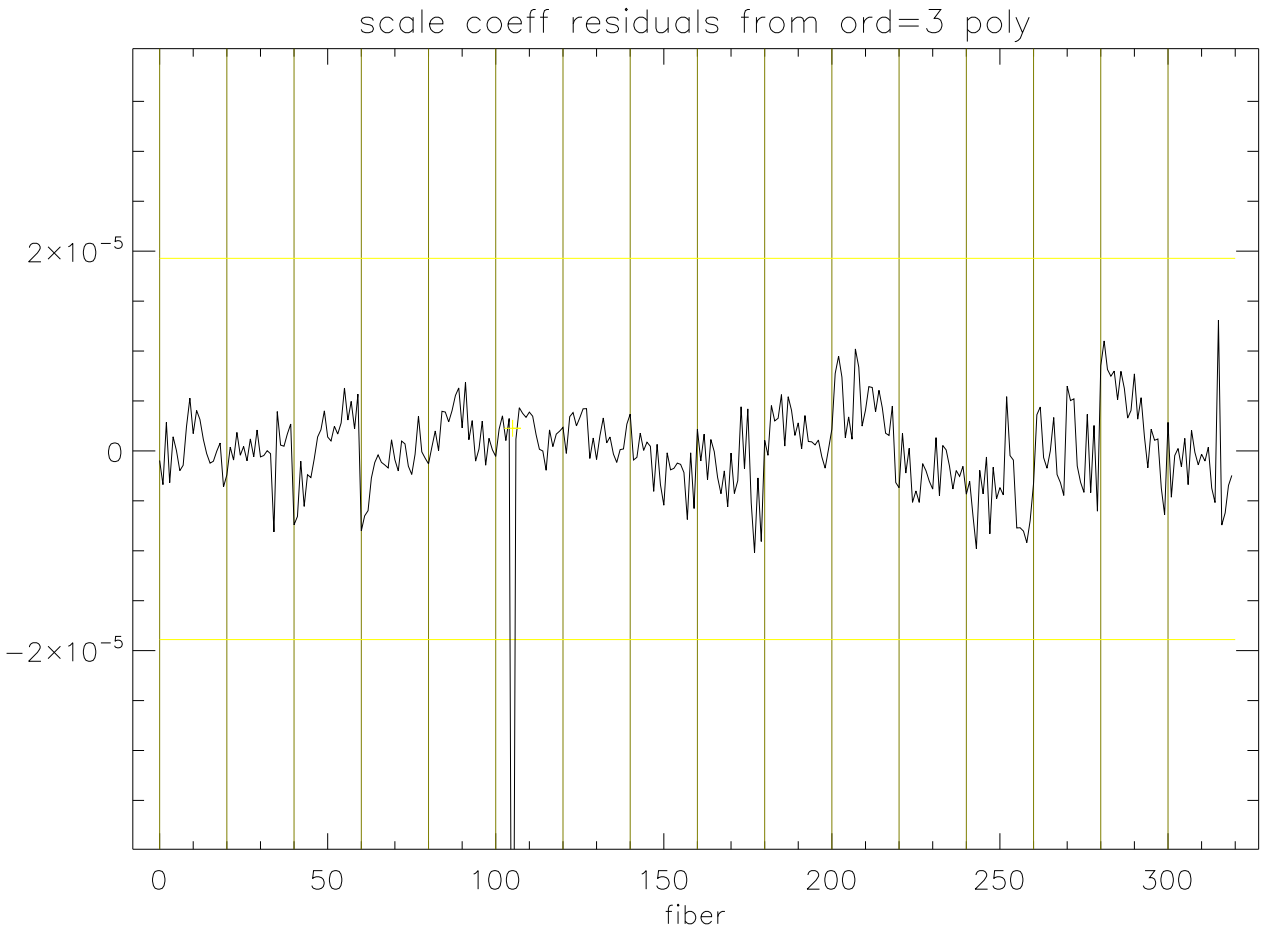

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

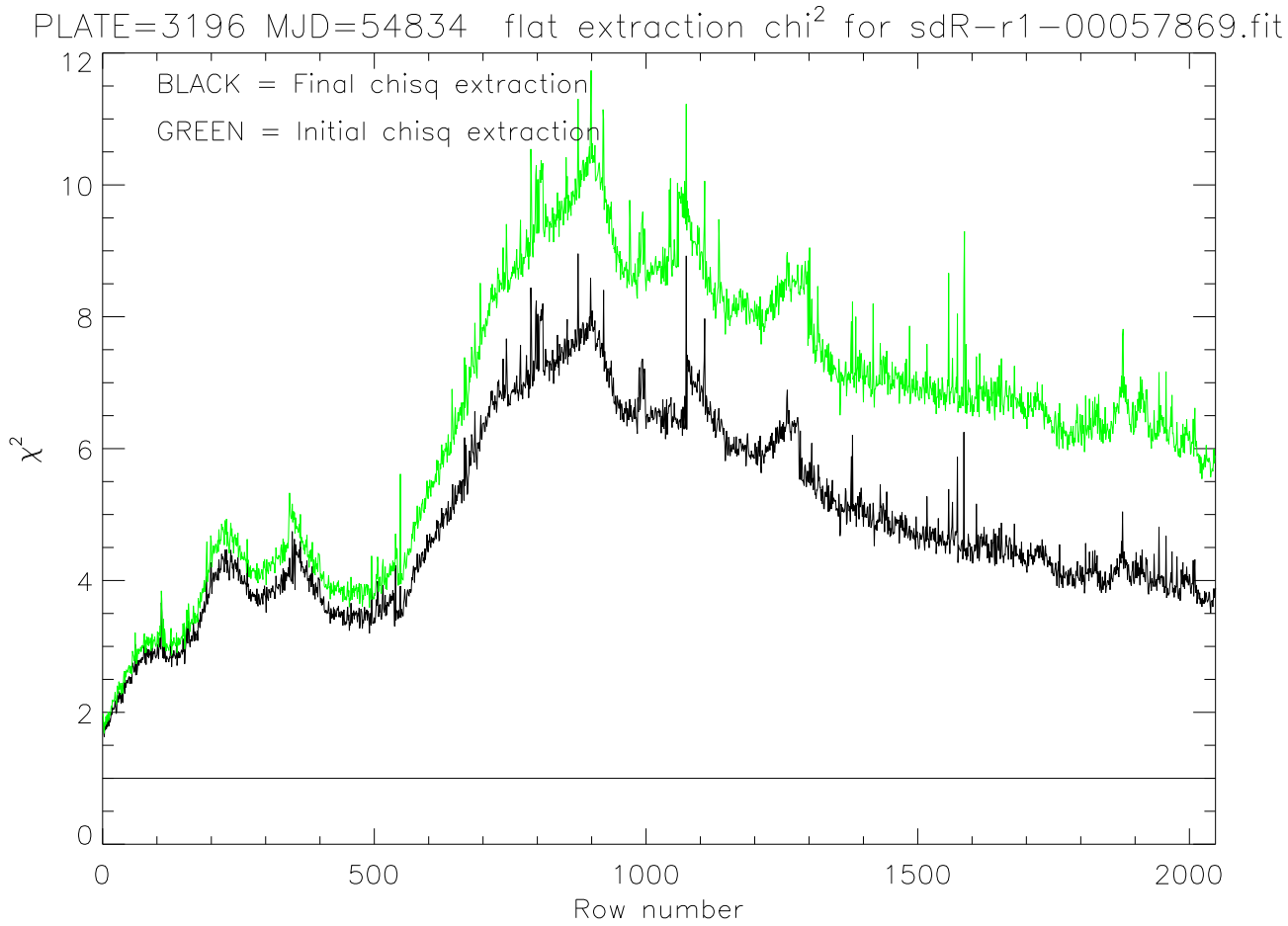

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

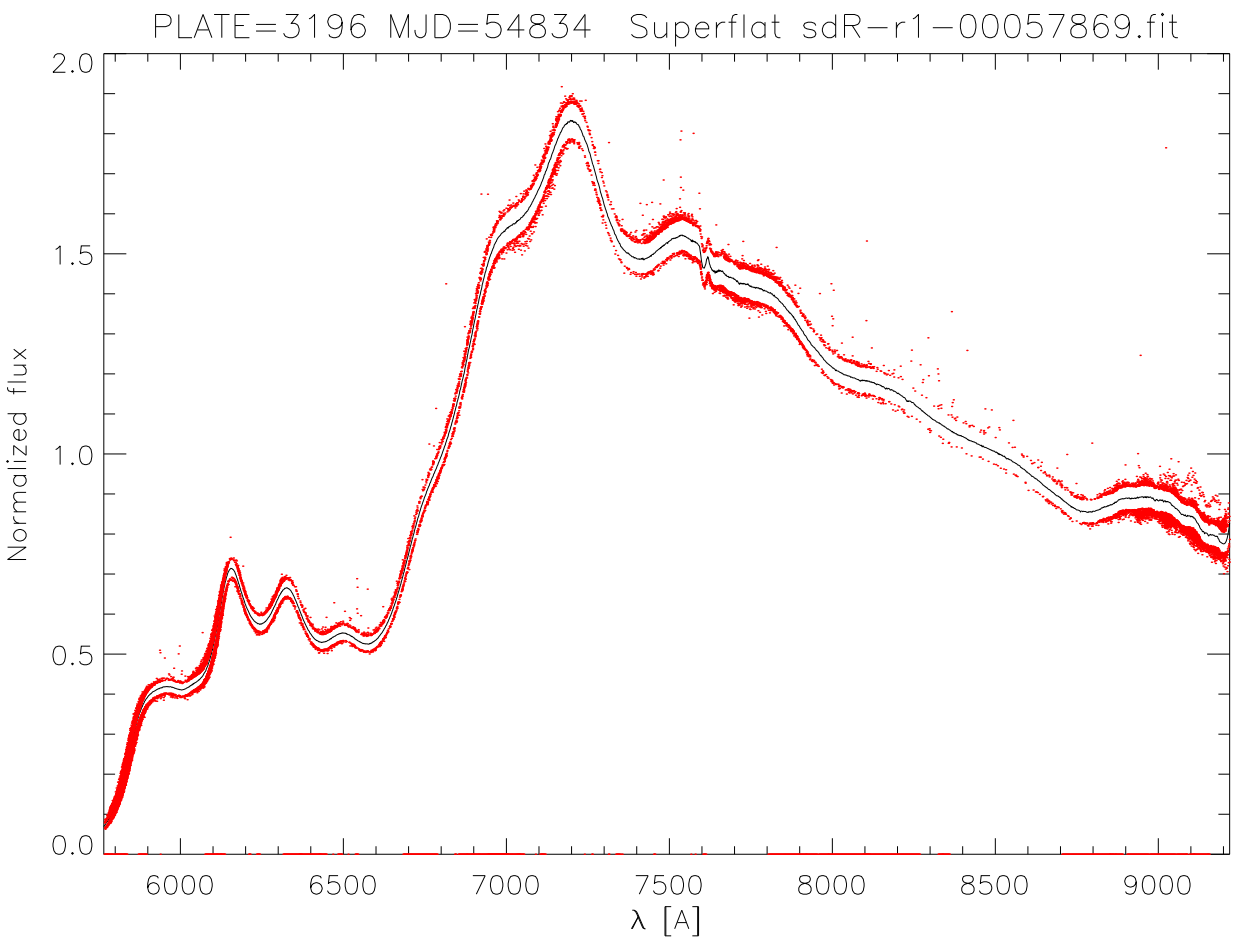

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

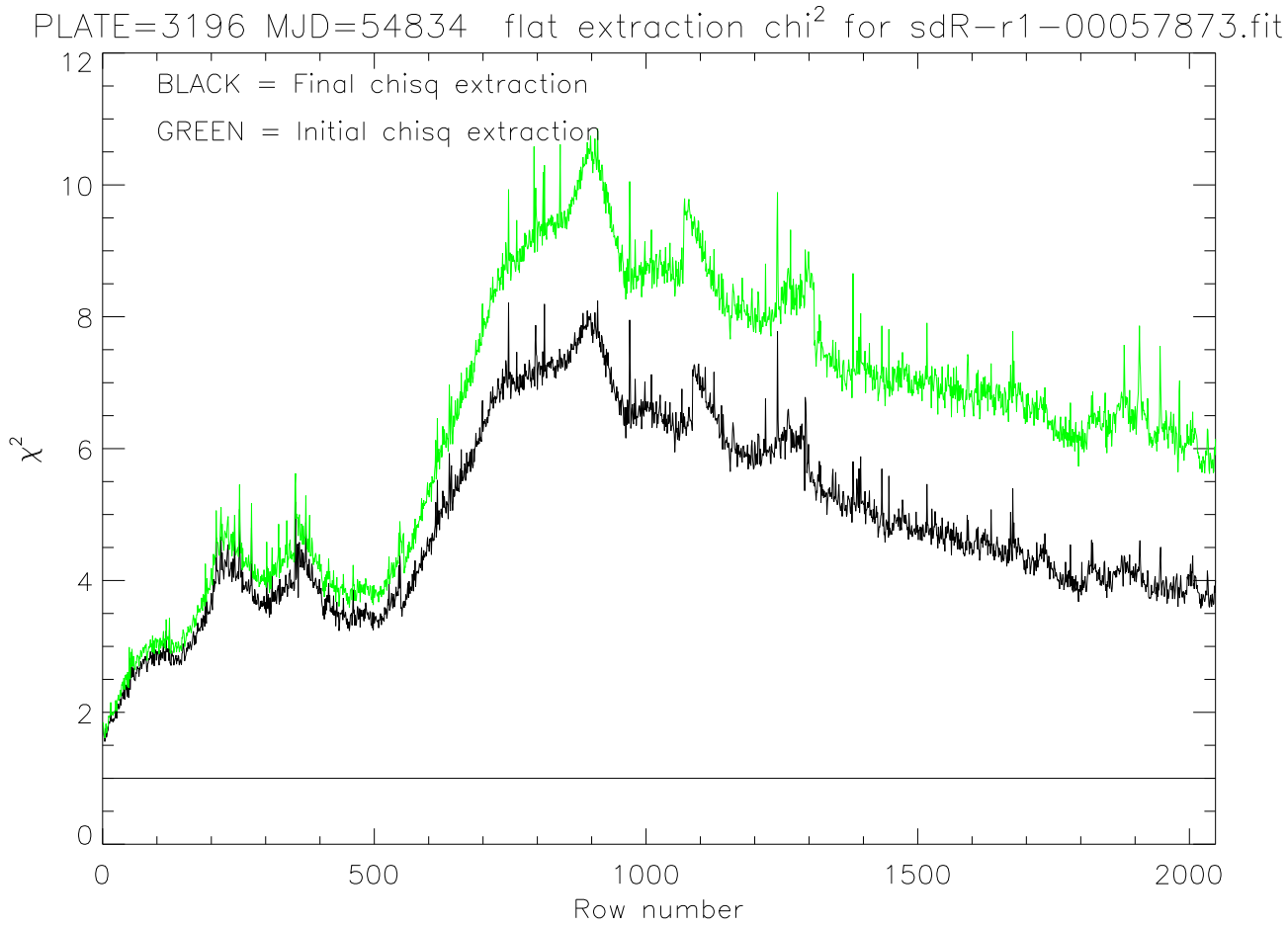

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

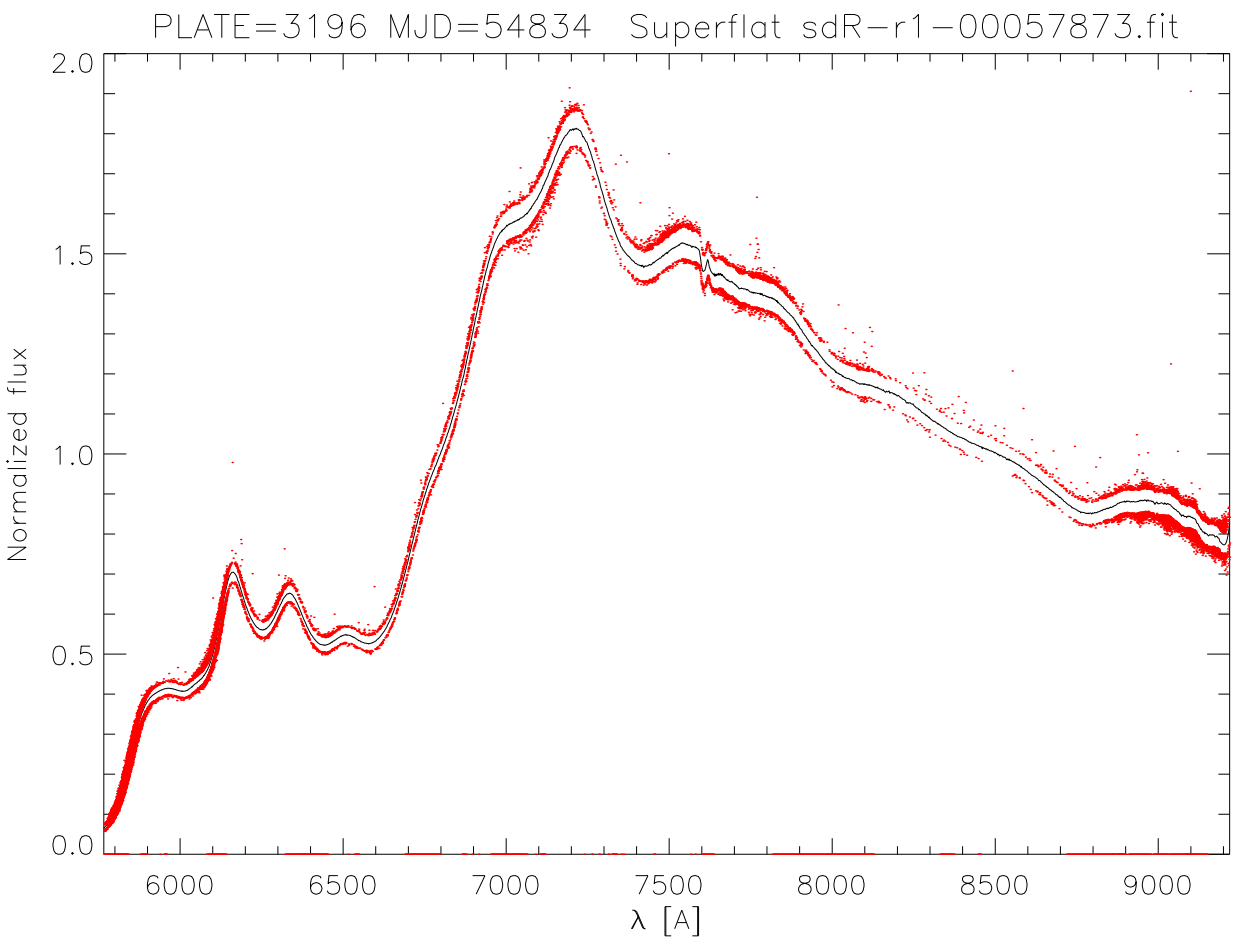

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

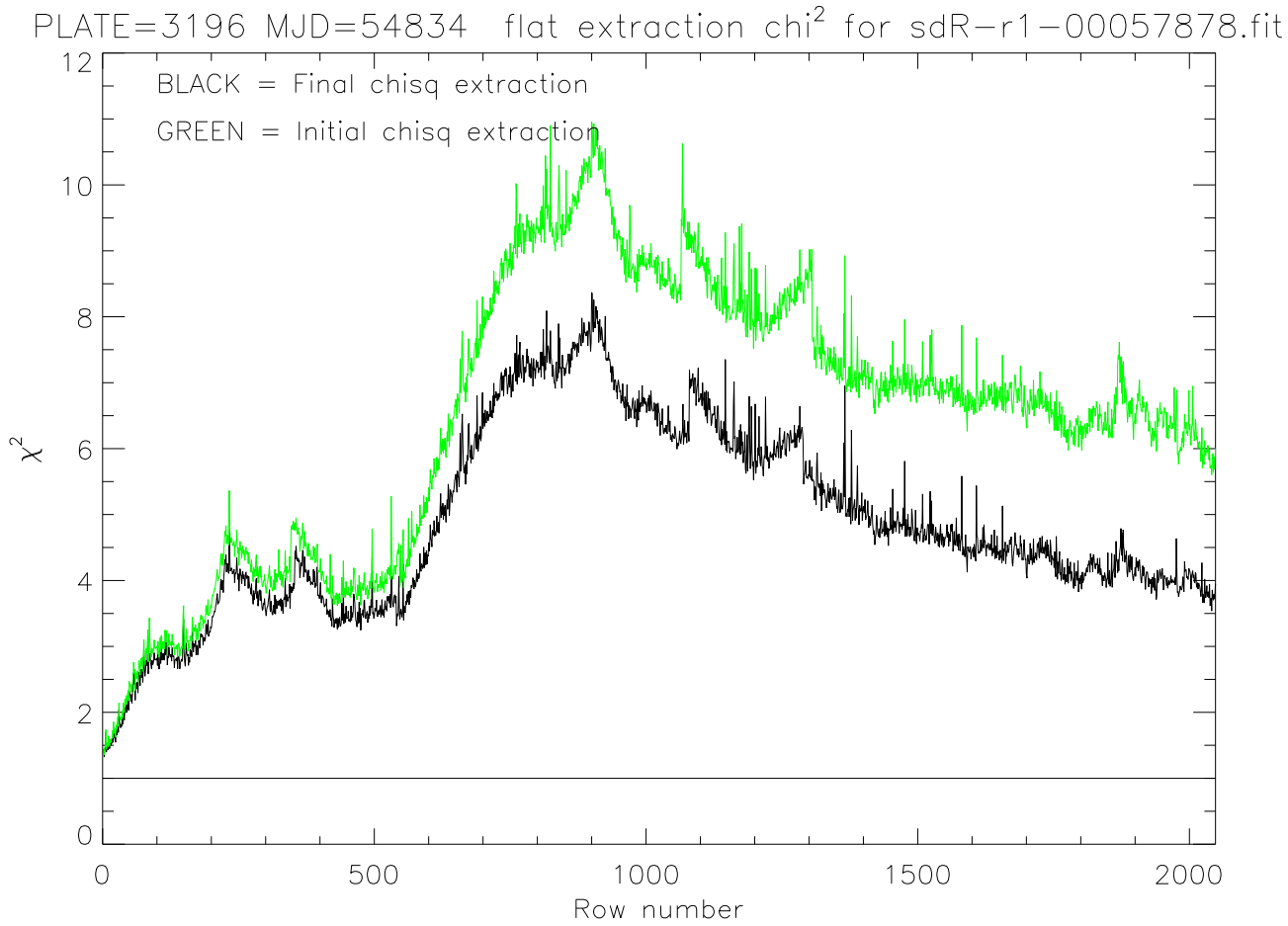

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

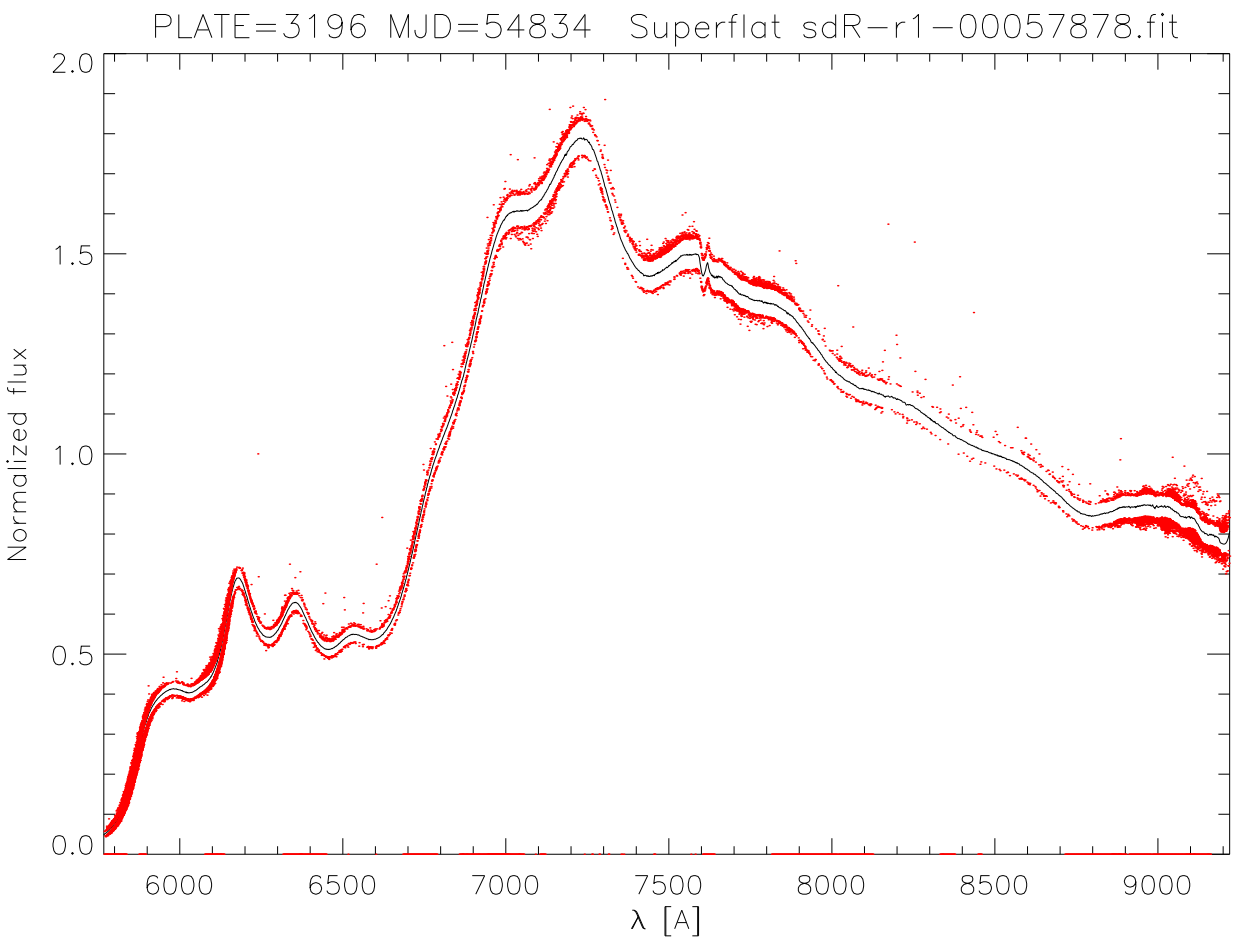

PLATE=3196 MJD=54834 flat extraction chi^2 for sdR−r1−00057869.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

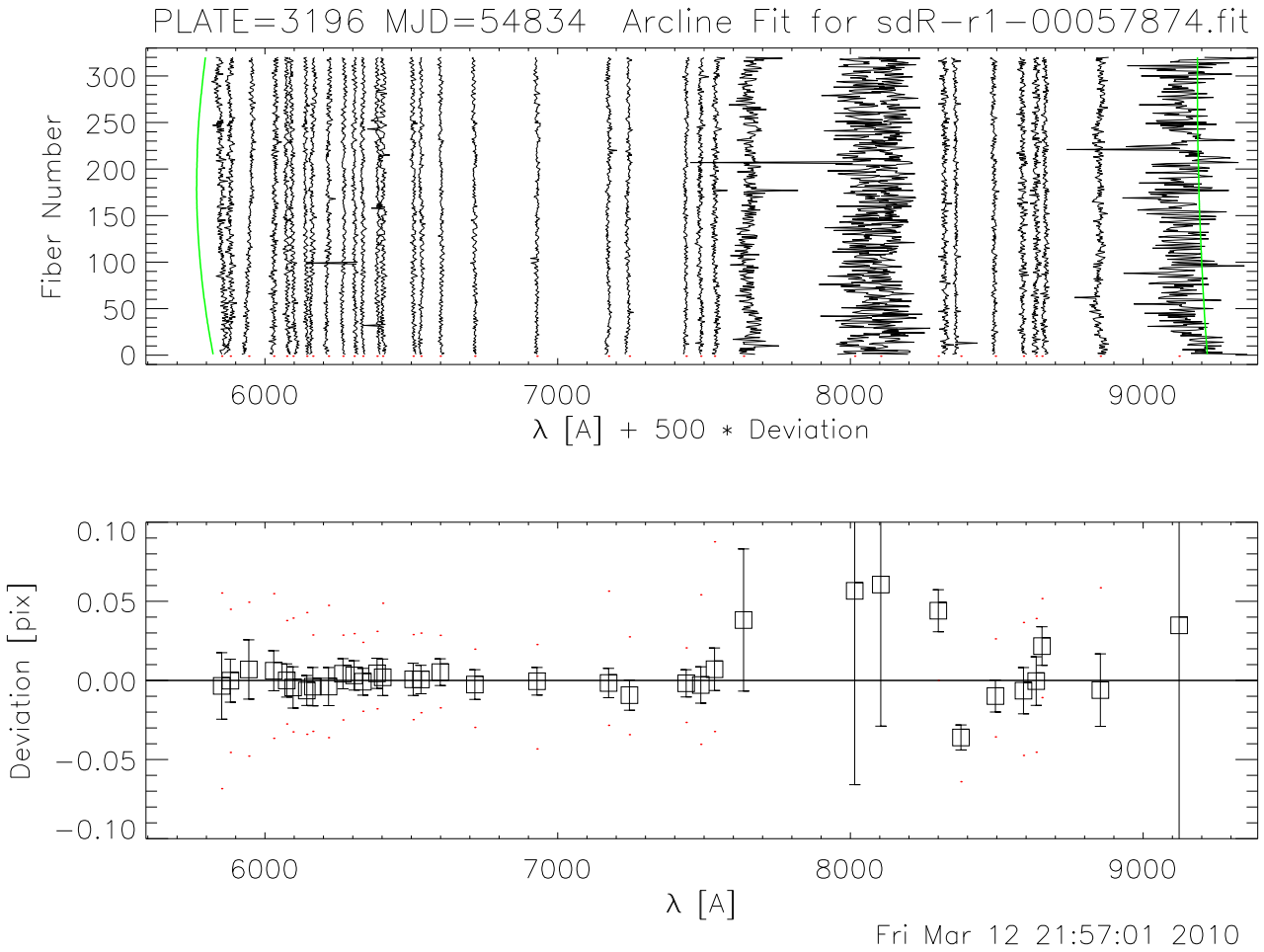

PLATE=3196 MJD=54834 Superflat sdR-r1-00057869.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

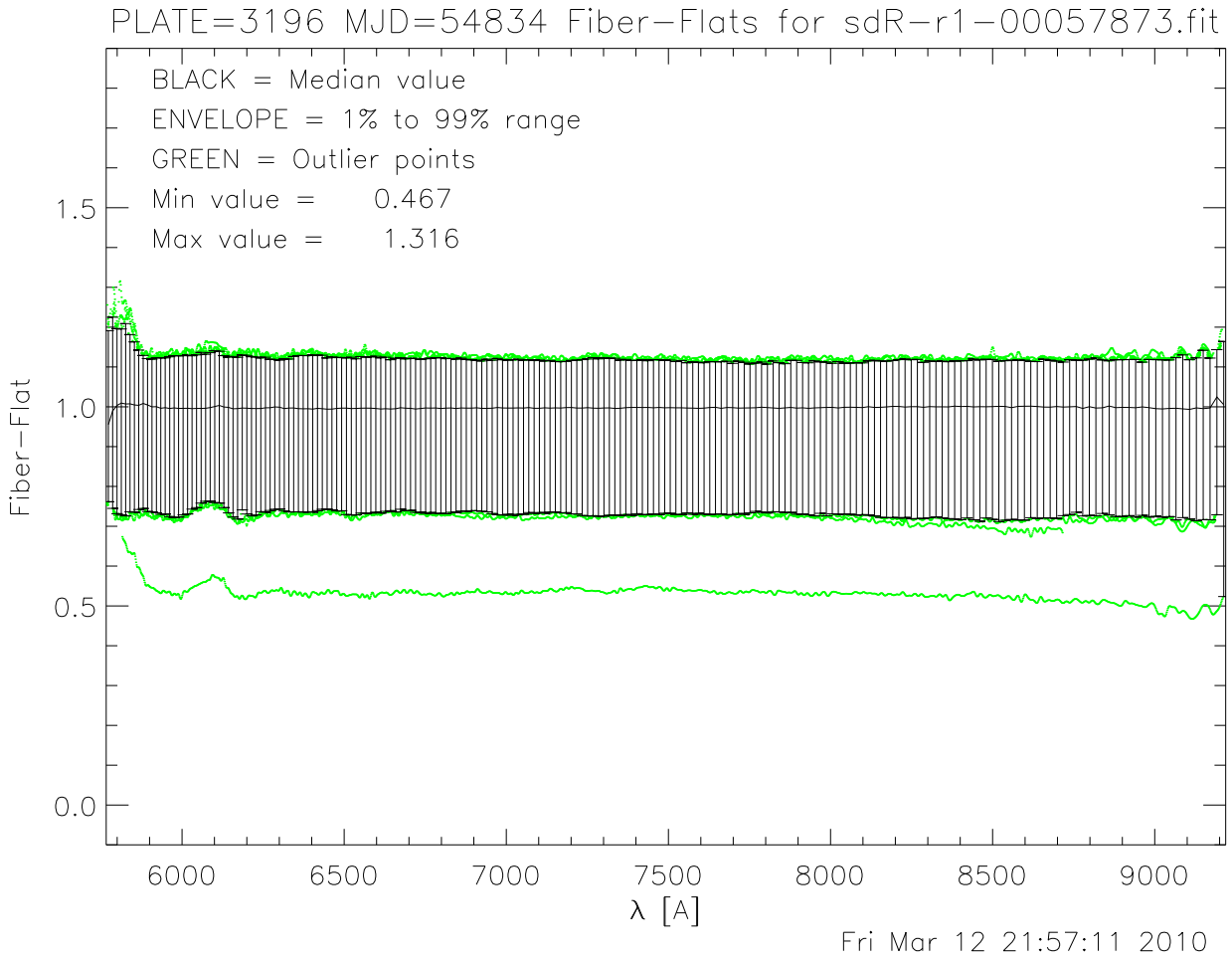

PLATE=3196 MJD=54834 flat extraction chi^2 for sdR−r1−00057873.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

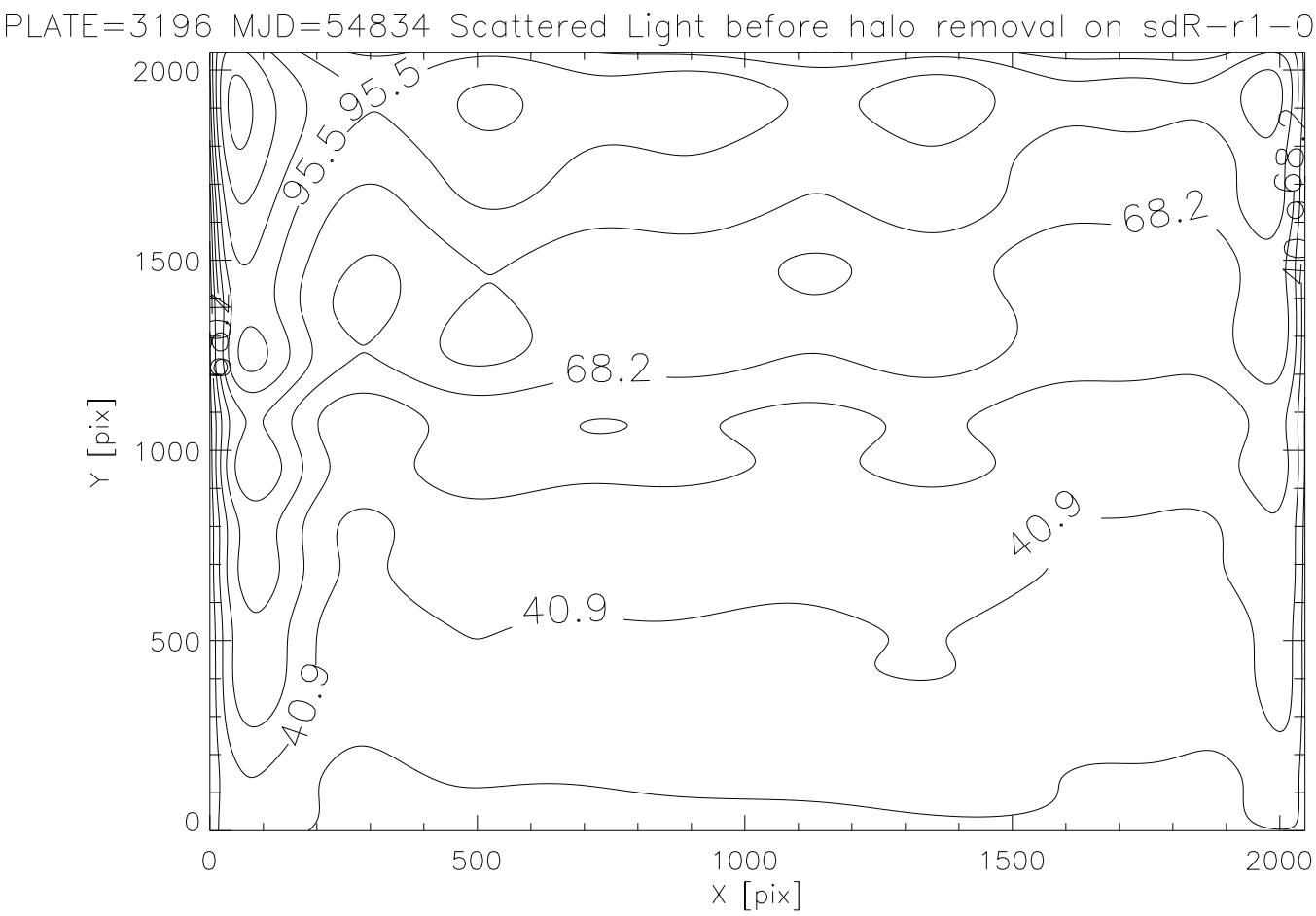

PLATE=3196 MJD=54834 Superflat sdR-r1-00057873.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

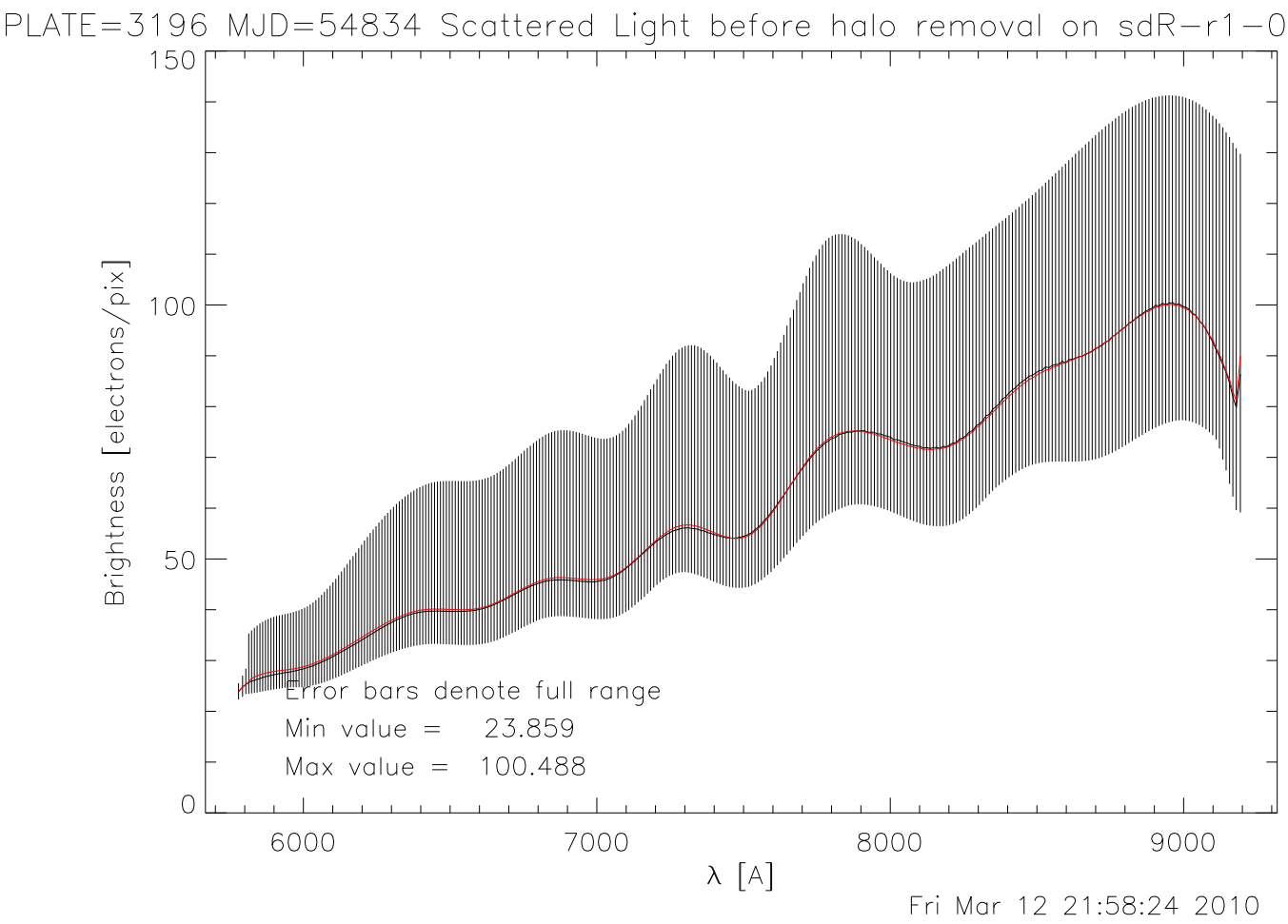

PLATE=3196 MJD=54834 flat extraction chi^2 for sdR−r1−00057878.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

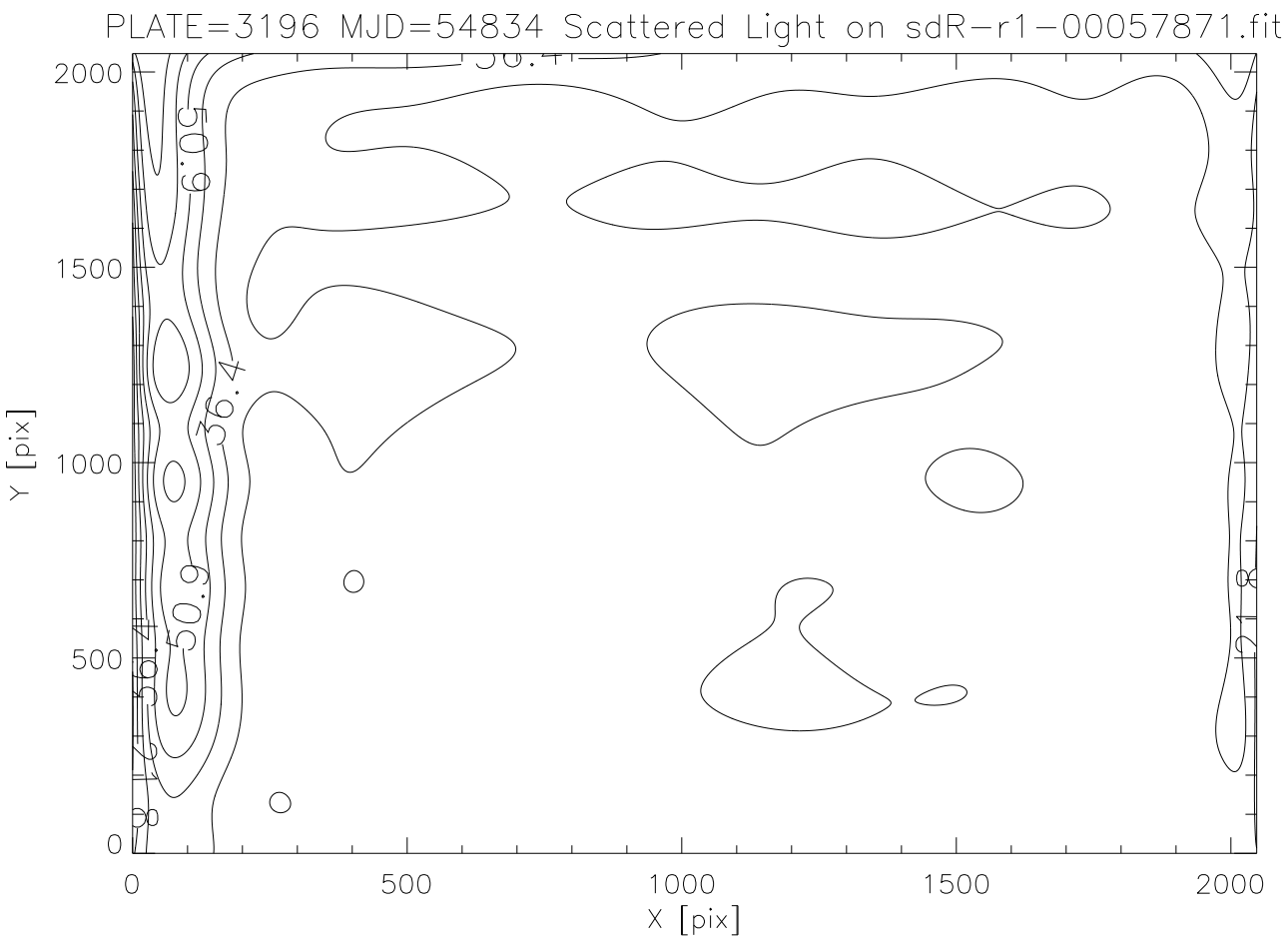

PLATE=3196 MJD=54834 Superflat sdR-r1-00057878.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

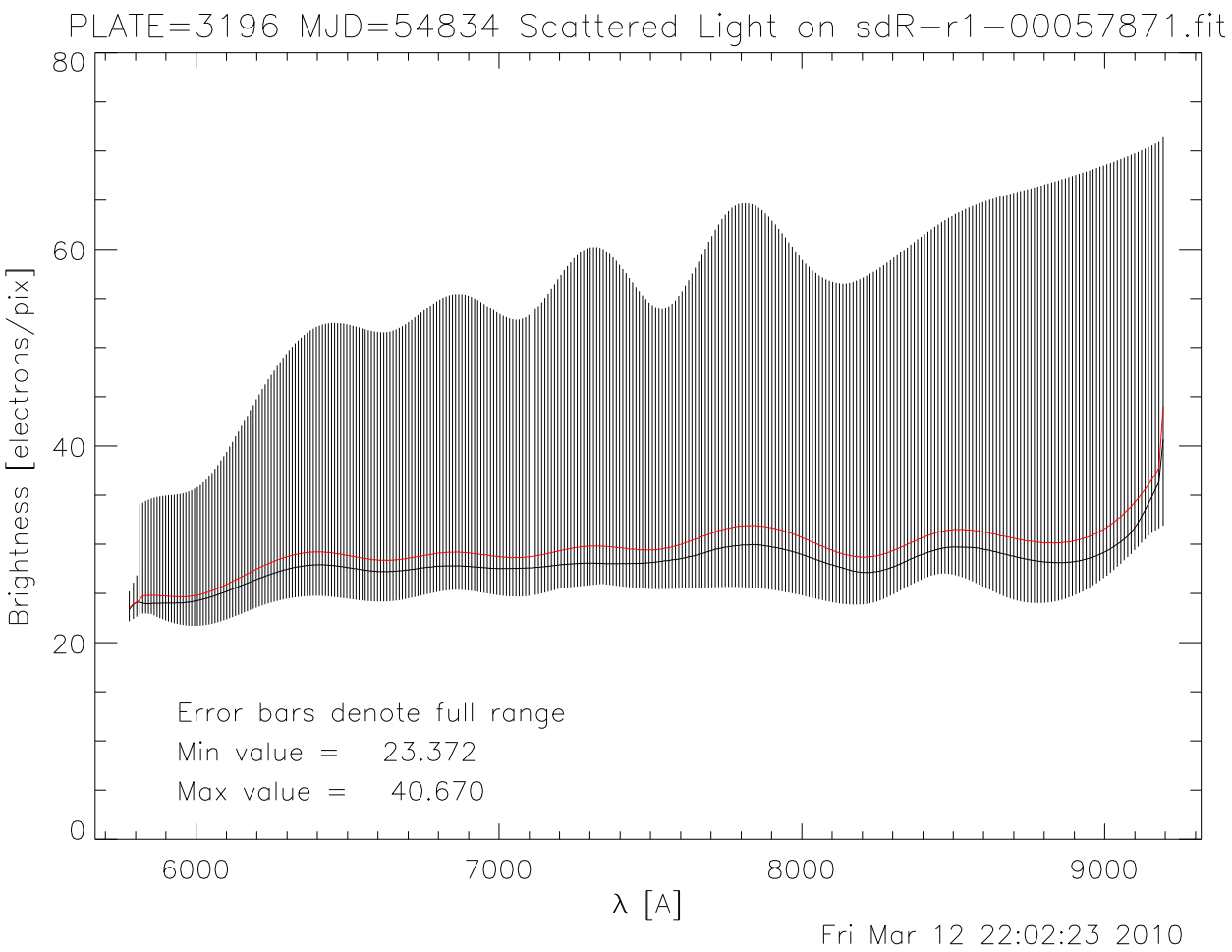

PLATE=3196 MJD=54834 Arcline Fit for sdR-r1-00057874.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Fri Mar 12 21:57:01 2010

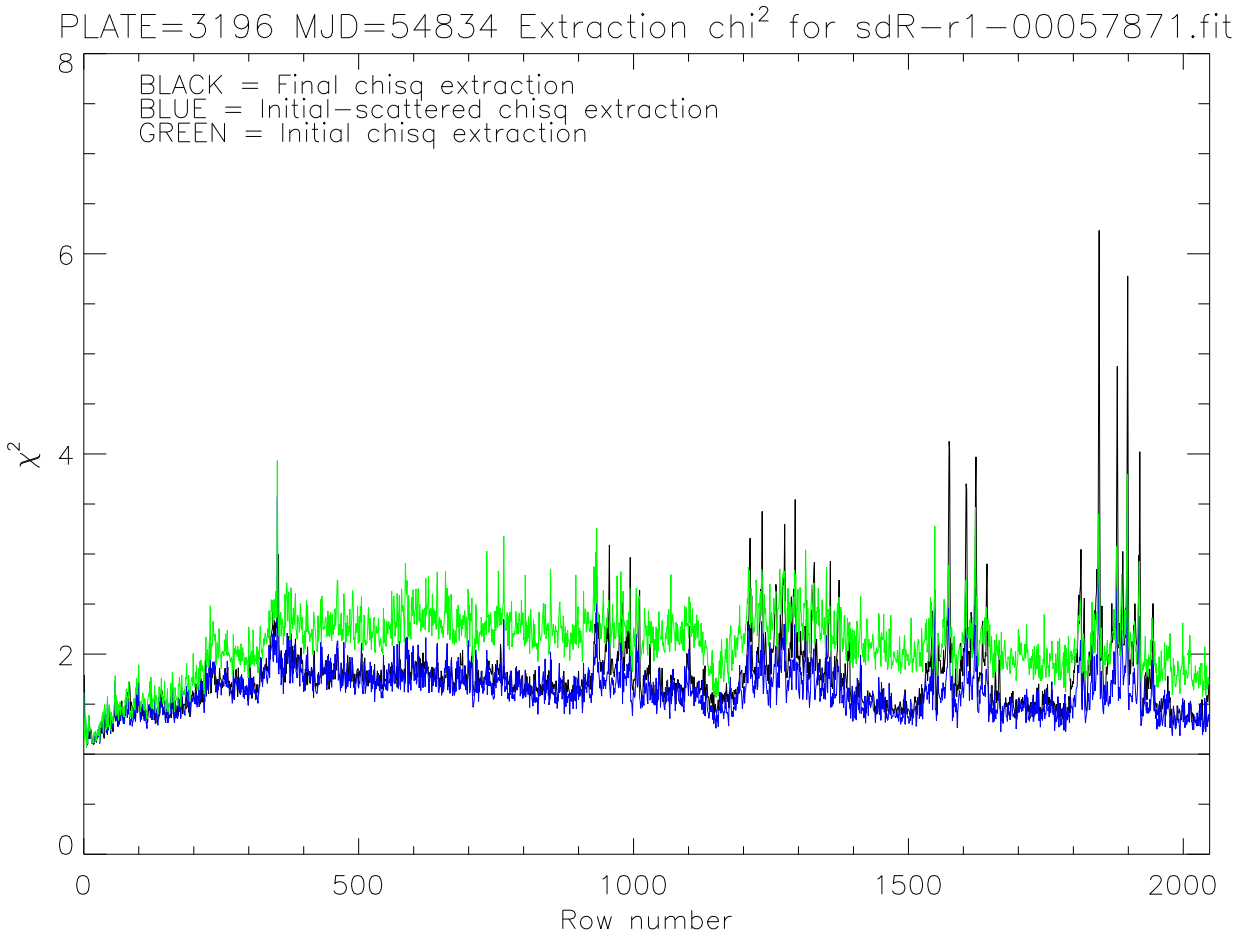

PLATE=3196 MJD=54834 Fiber−Flats for sdR−r1−00057873.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.467
Max value = 1.316
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Fri Mar 12 21:57:11 2010

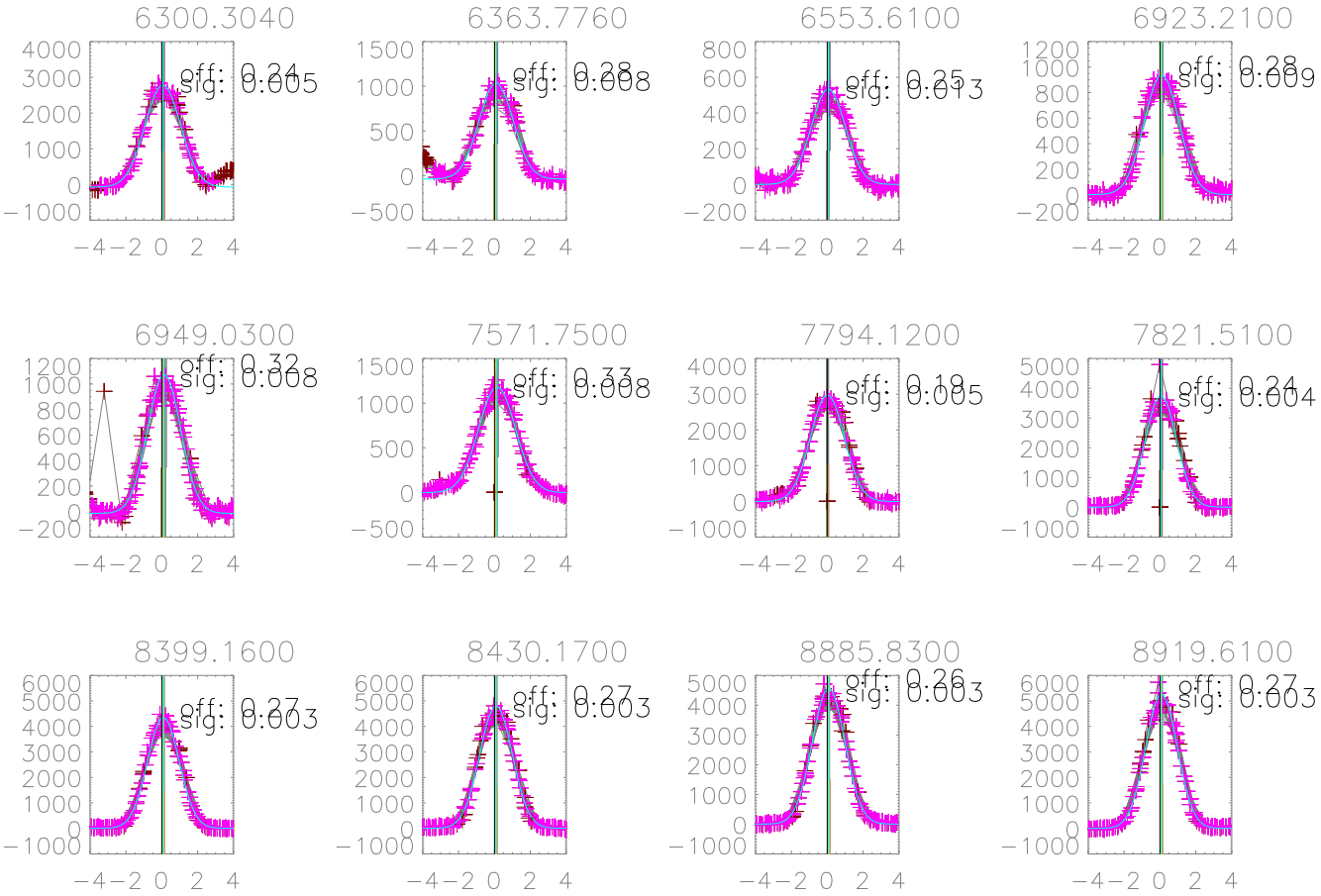

PLATE=3196 MJD=54834 Scattered Light before halo removal on sdR-r1-00057871.fi
95.5
95.5
68.2
68.2
68.2
40.9
40.9
40.9
Y [pix]
X [pix]
0
500
1000
1500
2000

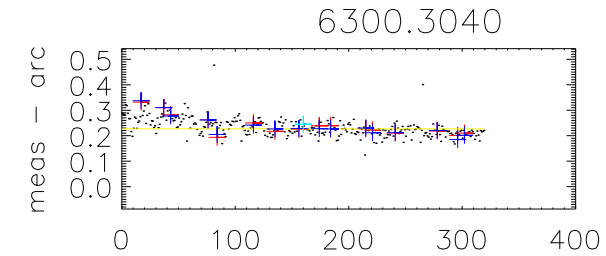

PLATE=3196 MJD=54834 Scattered Light before halo removal on sdR-r1-00057871.fi
150
100
50
0
Brightness [electrons/pix]
Error bars denote full range
Min value = 23.859
Max value = 100.488
6000
7000
8000
9000
λ [A]
Fri Mar 12 21:58:24 2010

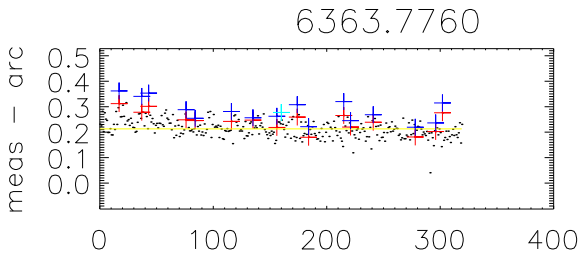

PLATE=3196 MJD=54834 Scattered Light on sdR-r1-00057871.fit
36.4
60.5
36.4
50.9
36.4
21.8
0
500
1000
1500
2000
Y [pix]
X [pix]

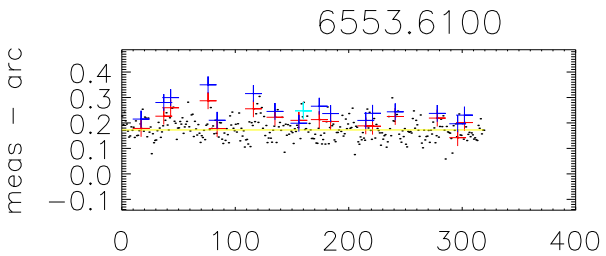

PLATE=3196 MJD=54834 Scattered Light on sdR-r1-00057871.fit
Brightness [electrons/pix]
80
60
40
20
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 23.372
Max value = 40.670
Fri Mar 12 22:02:23 2010

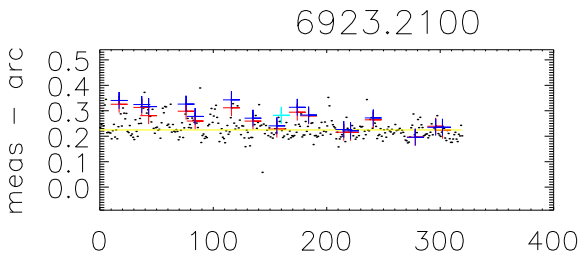

PLATE=3196 MJD=54834 Extraction chi^2 for sdR-r1-00057871.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

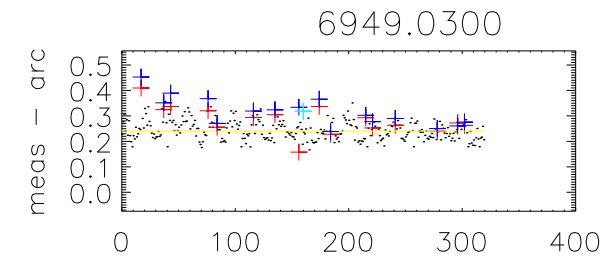

6300.3040
off: 0.24
sig: 0.005
6363.7760
off: 0.28
sig: 0.008
6553.6100
off: 0.25
sig: 0.013
6923.2100
off: 0.28
sig: 0.009
6949.0300
off: 0.32
sig: 0.008
7571.7500
off: 0.33
sig: 0.008
7794.1200
off: 0.19
sig: 0.005
7821.5100
off: 0.24
sig: 0.004
8399.1600
off: 0.27
sig: 0.003
8430.1700
off: 0.27
sig: 0.003
8885.8300
off: 0.26
sig: 0.003
8919.6100
off: 0.27
sig: 0.003

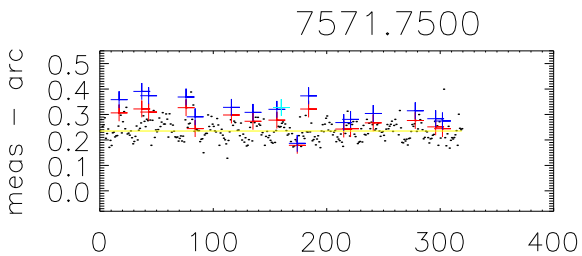

6300.3040
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

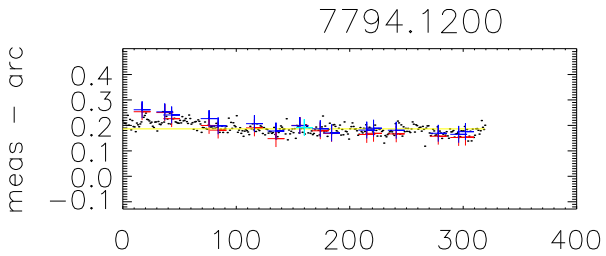

6363.7760
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

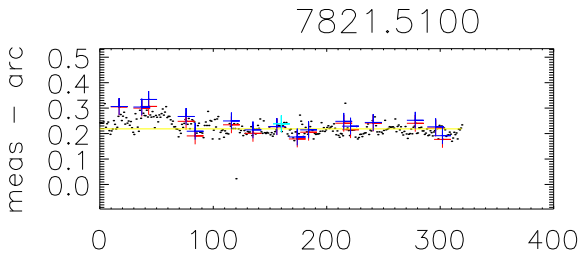

6553.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

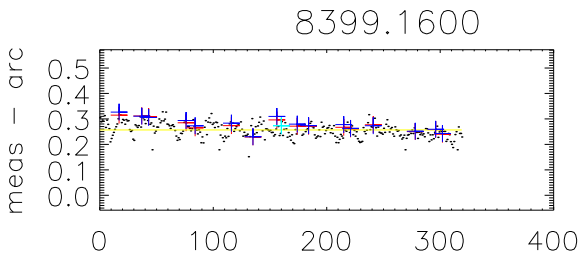

6923.2100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

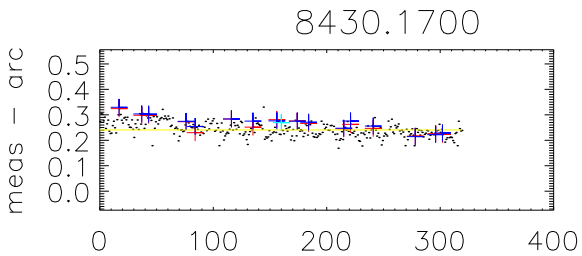

6949.0300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

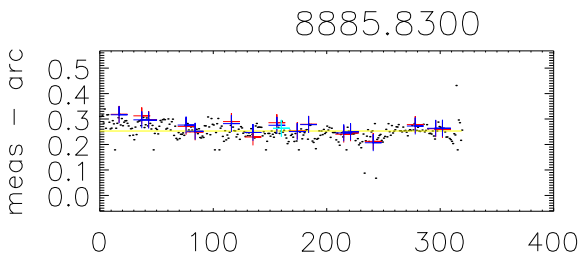

7571.7500
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

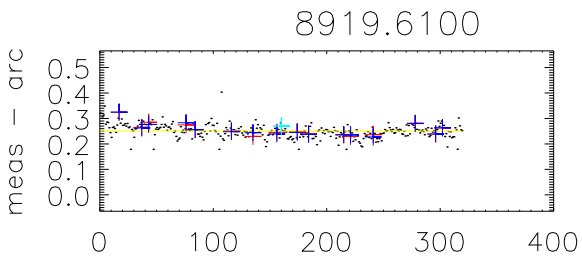

7794.1200
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

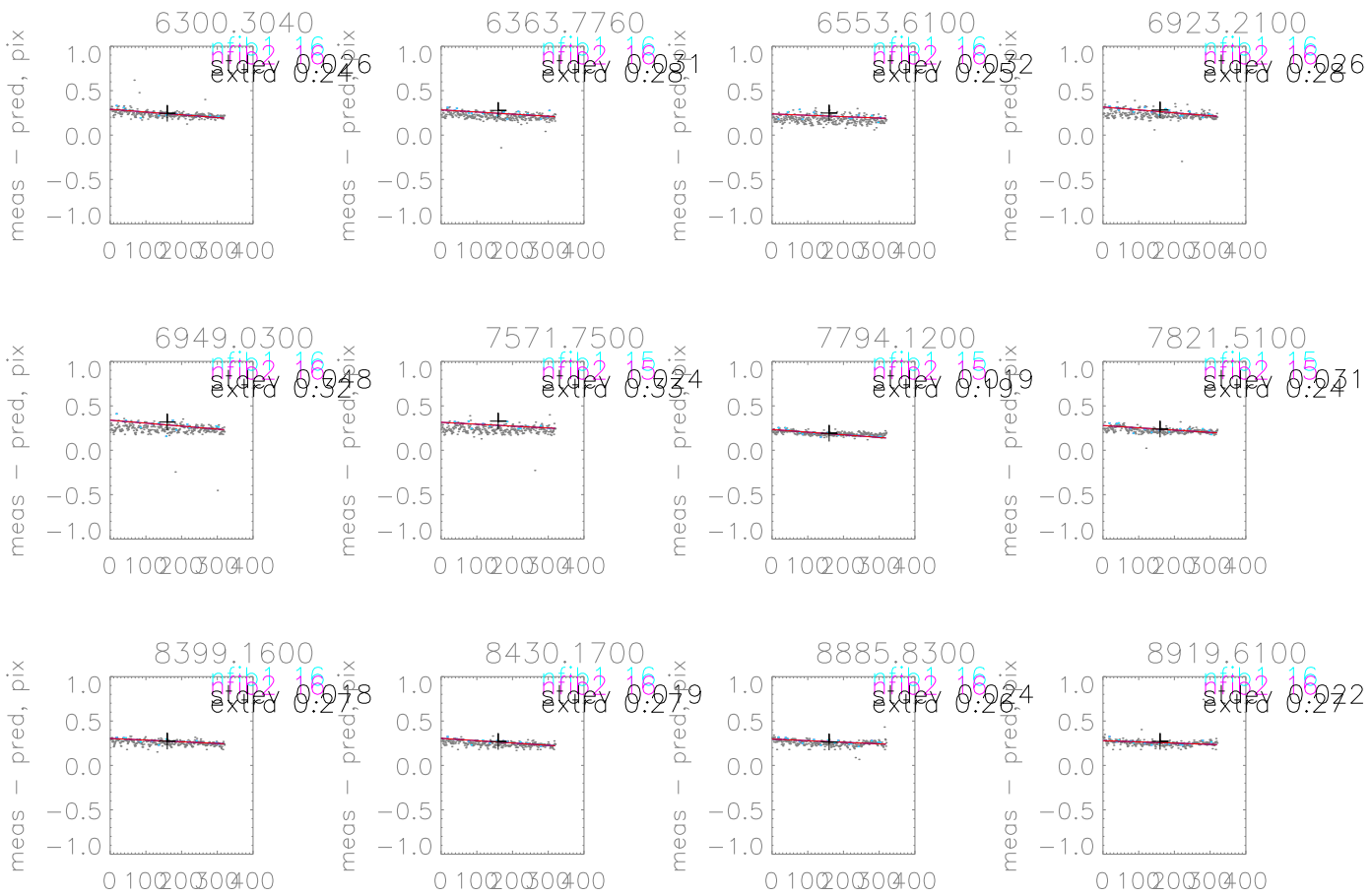

7821.5100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

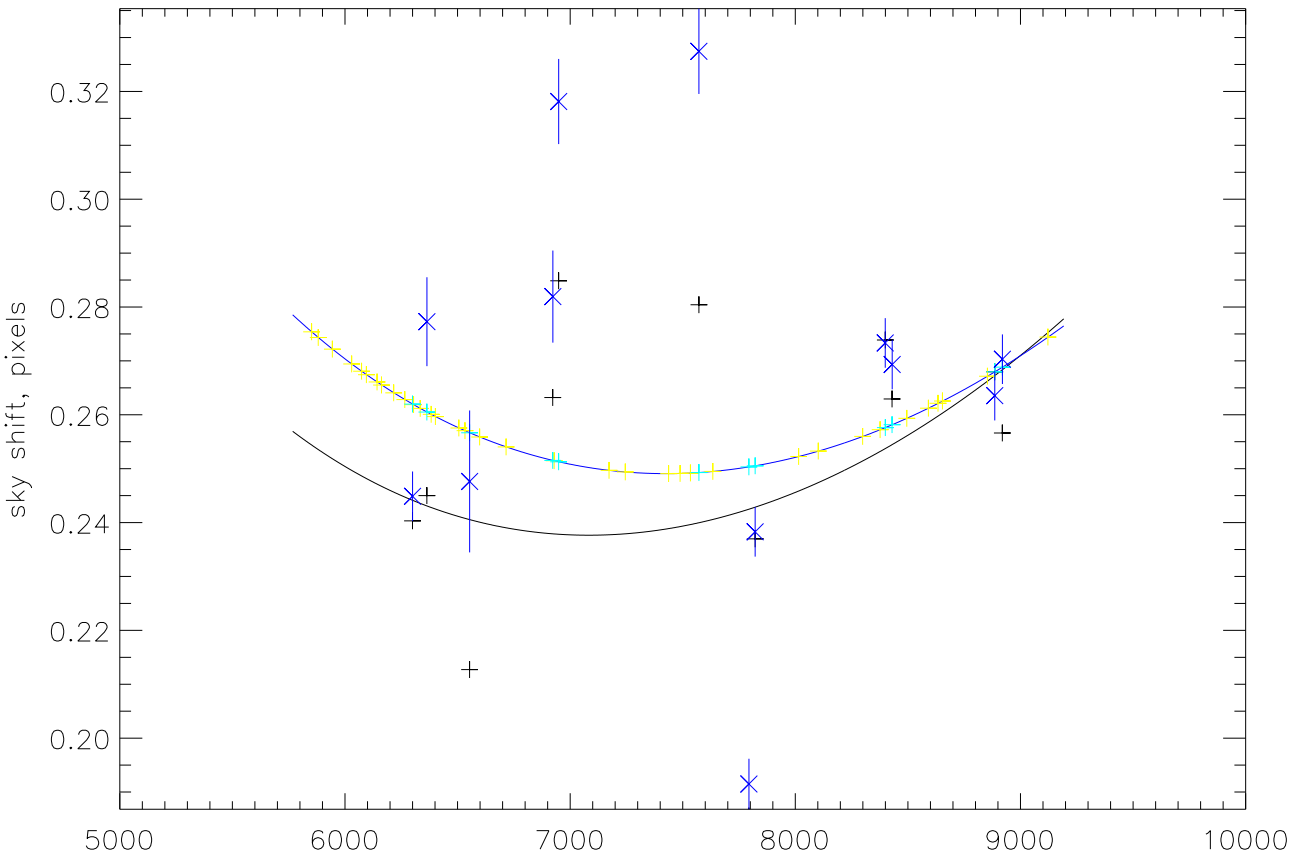

8399.1600
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

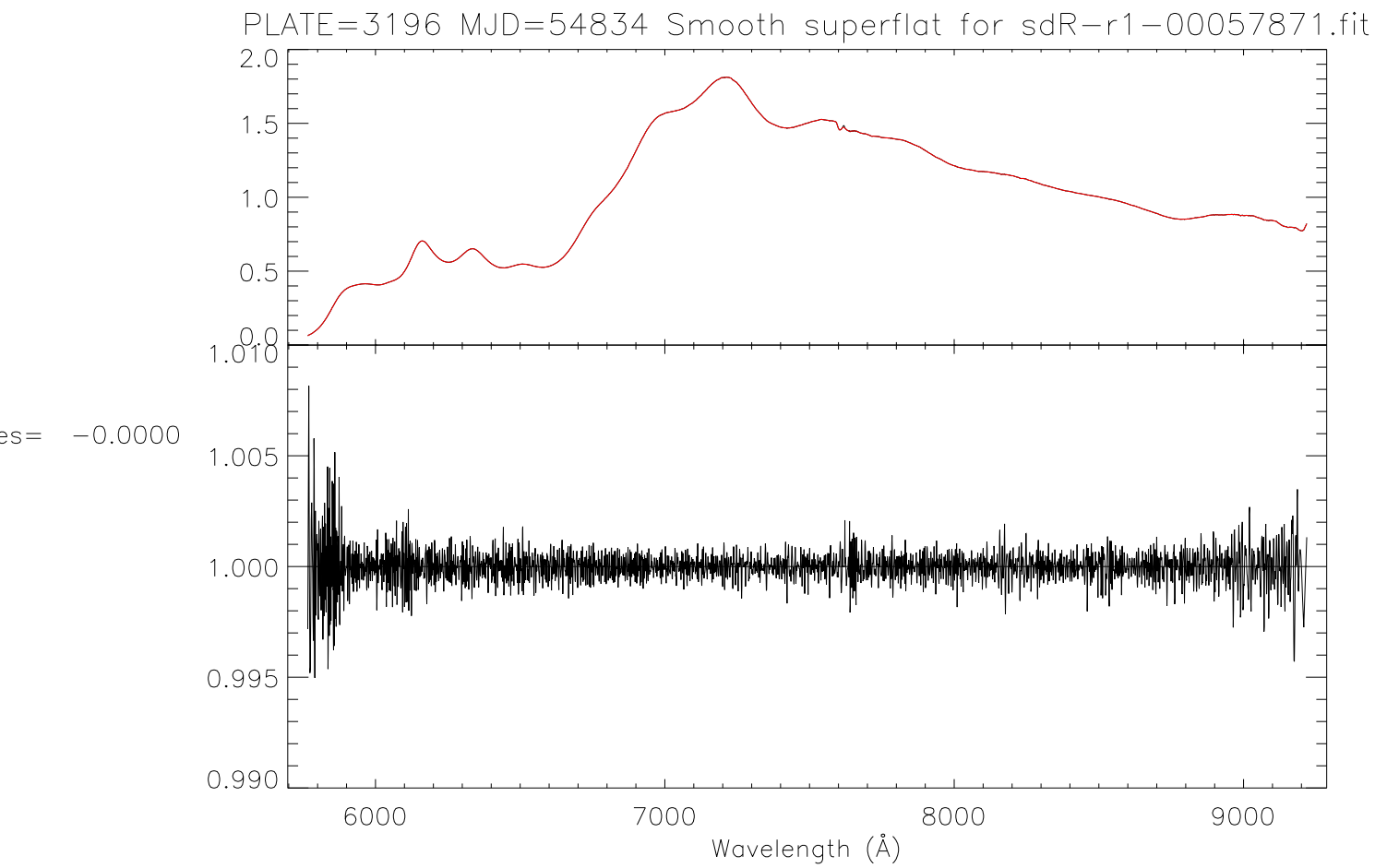

8430.1700
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

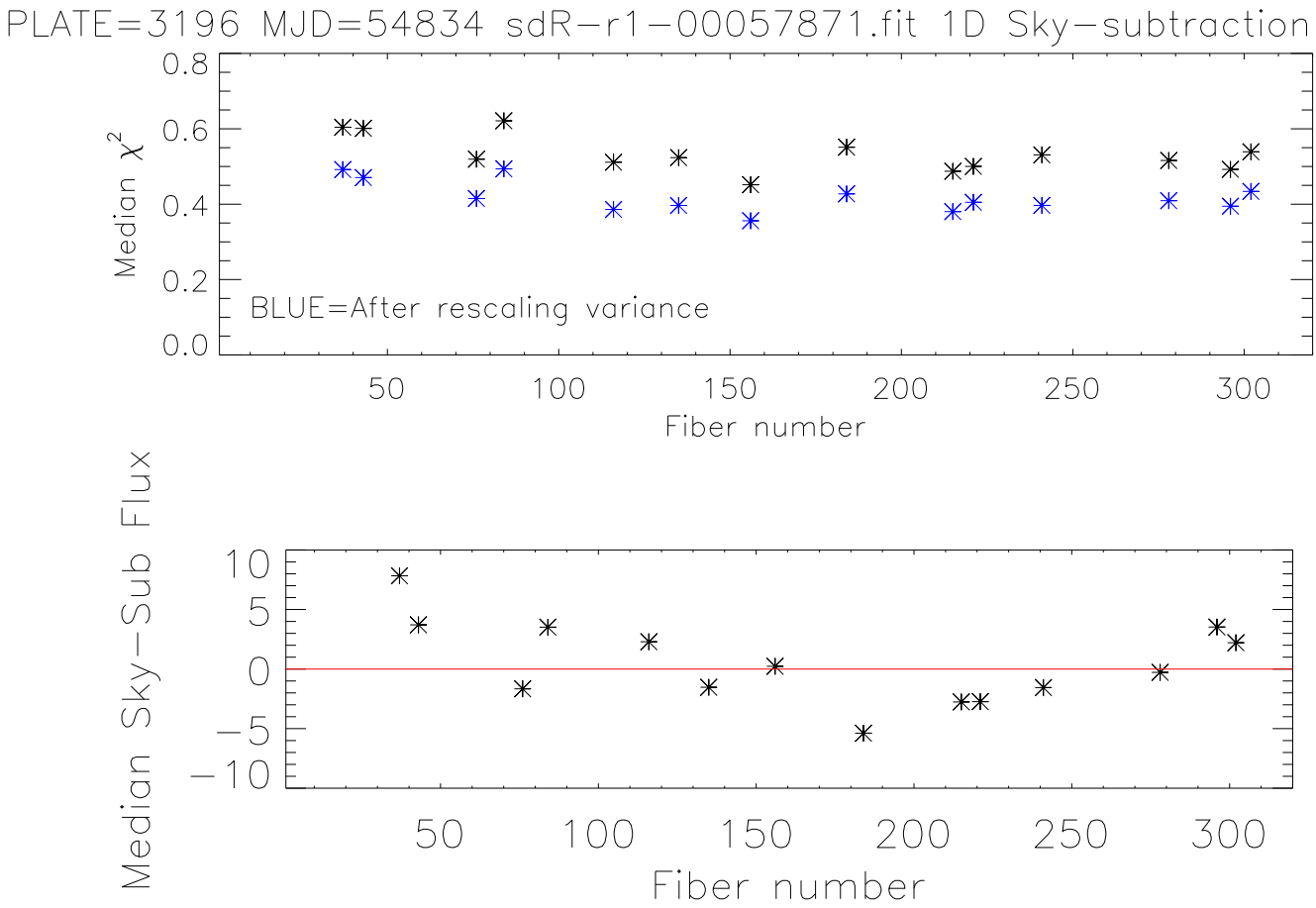

8885.8300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

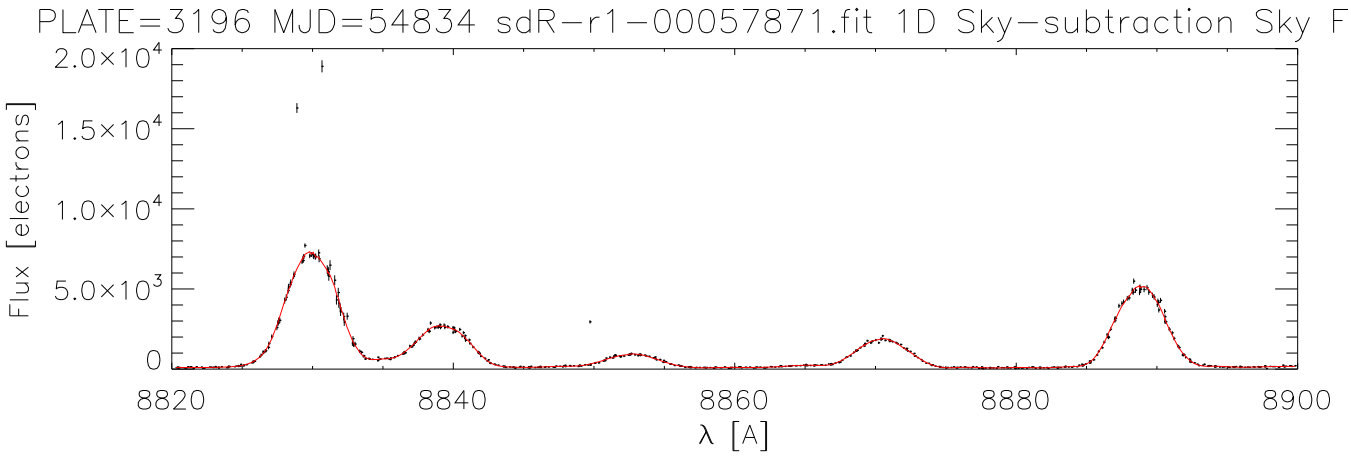

8919.6100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

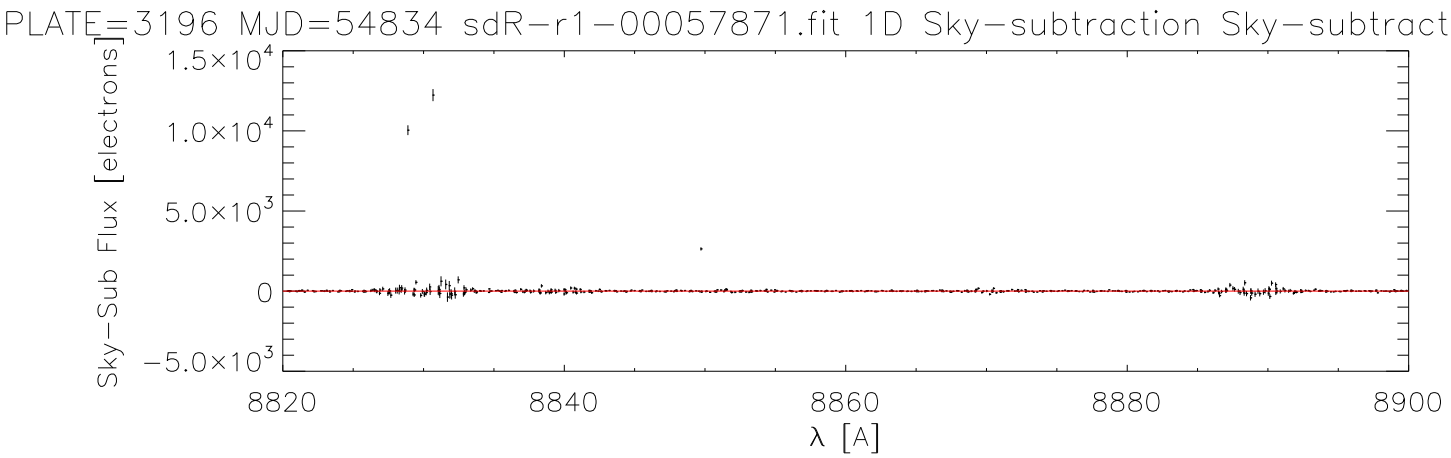

6300.3040
stdev 0.26
extra 0.24
6363.7760
stdev 0.31
extra 0.28
6553.6100
stdev 0.32
extra 0.252
6923.2100
stdev 0.26
extra 0.28
6949.0300
stdev 0.348
extra 0.32
7571.7500
stdev 0.324
extra 0.33
7794.1200
stdev 0.109
extra 0.19
7821.5100
stdev 0.31
extra 0.24
8399.1600
stdev 0.278
extra 0.27
8430.1700
stdev 0.279
extra 0.27
8885.8300
stdev 0.224
extra 0.26
8919.6100
stdev 0.22
extra 0.27
meas − pred, pix
mfib2 16
mfib1 16
mfib2 15
mfib1 15

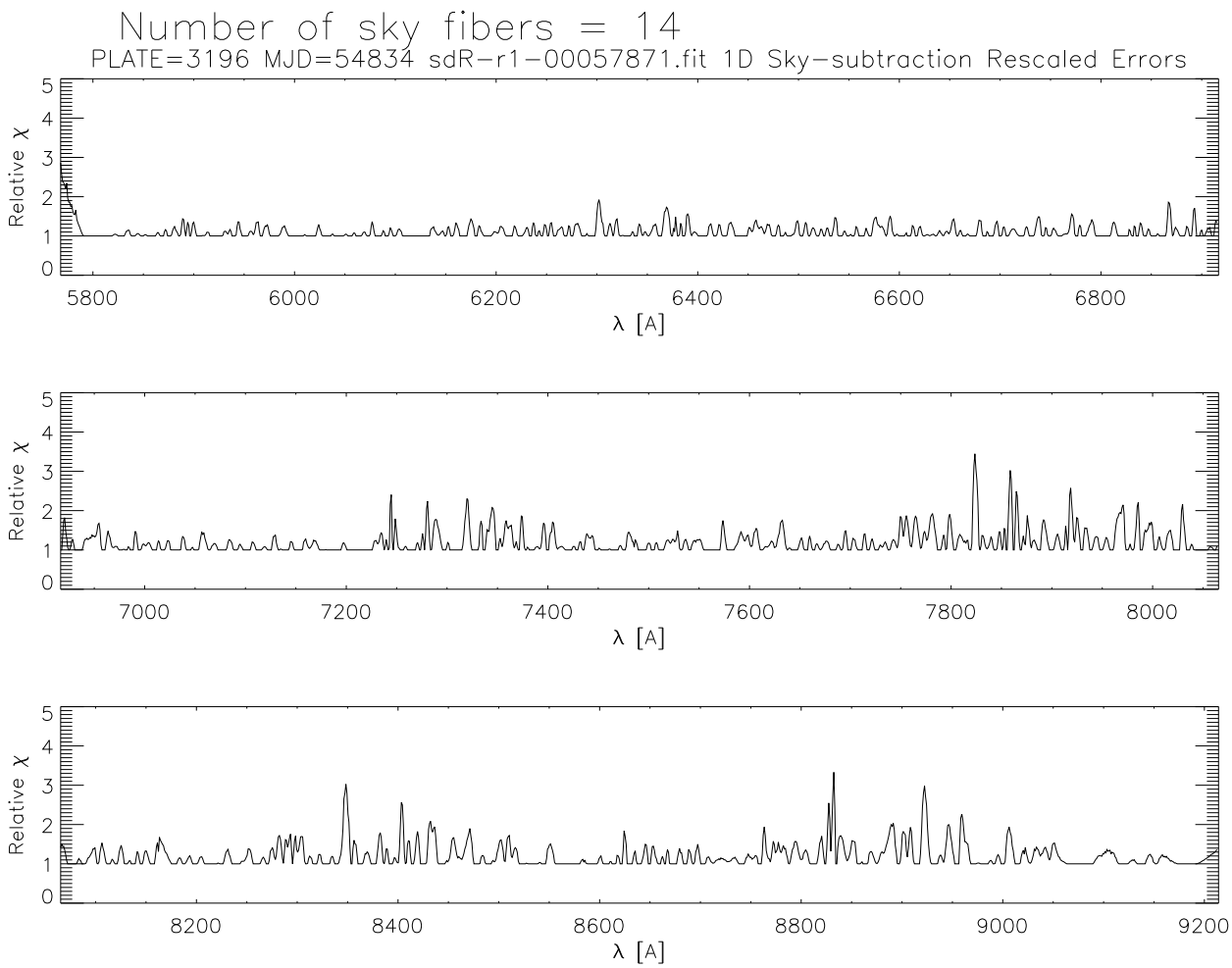

sky shift, pixels
0.32
0.30
0.28
0.26
0.24
0.22
0.20
5000
6000
7000
8000
9000
10000

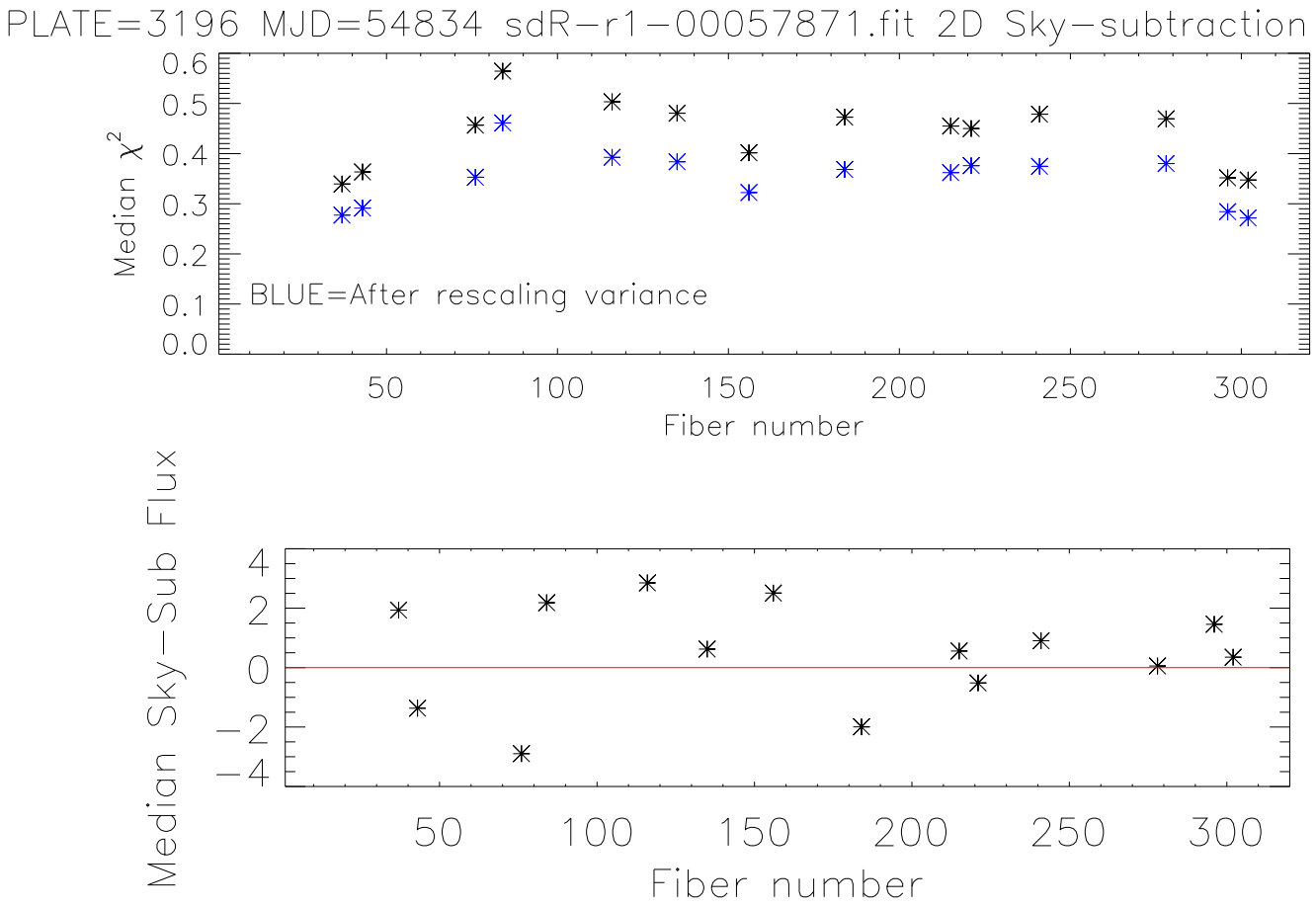

PLATE=3196 MJD=54834 Smooth superflat for sdR-r1-00057871.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= -0.0000
6000
7000
8000
9000
Wavelength (Å)

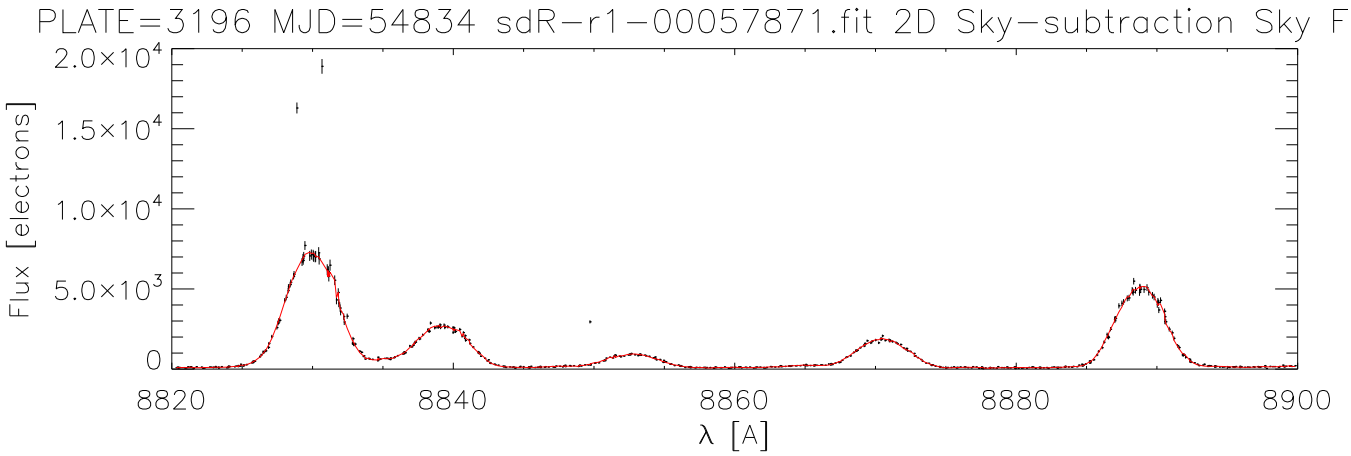

PLATE=3196 MJD=54834 sdR-r1-00057871.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

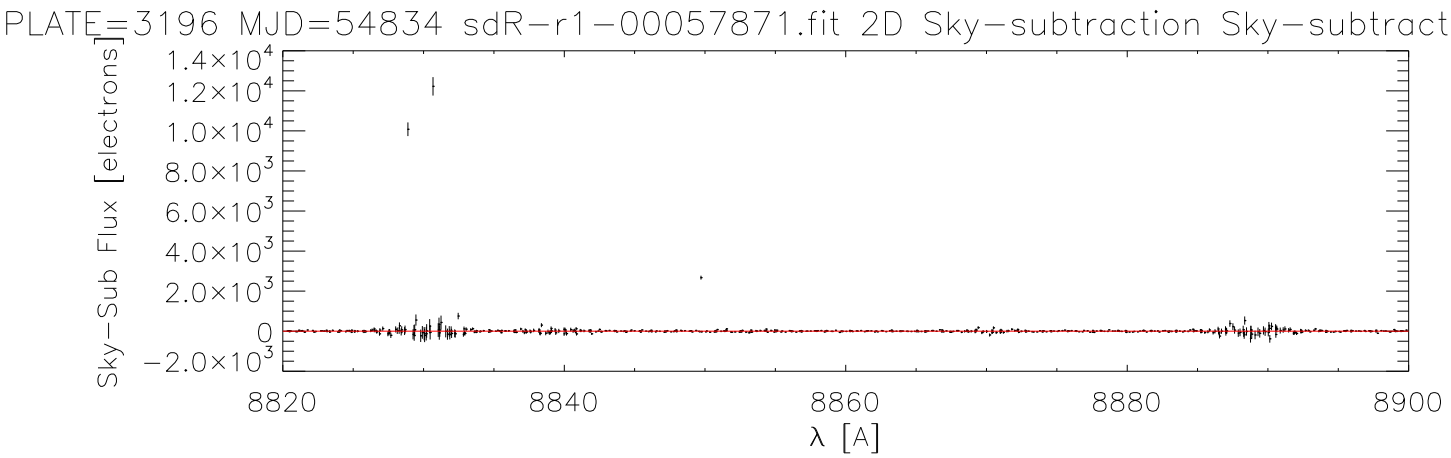

PLATE=3196 MJD=54834 sdR-r1-00057871.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2.0×10^4
1.5×10^4
1.0×10^4
5.0×10^3
0
8820
8840
8860
8880
8900
λ [A]

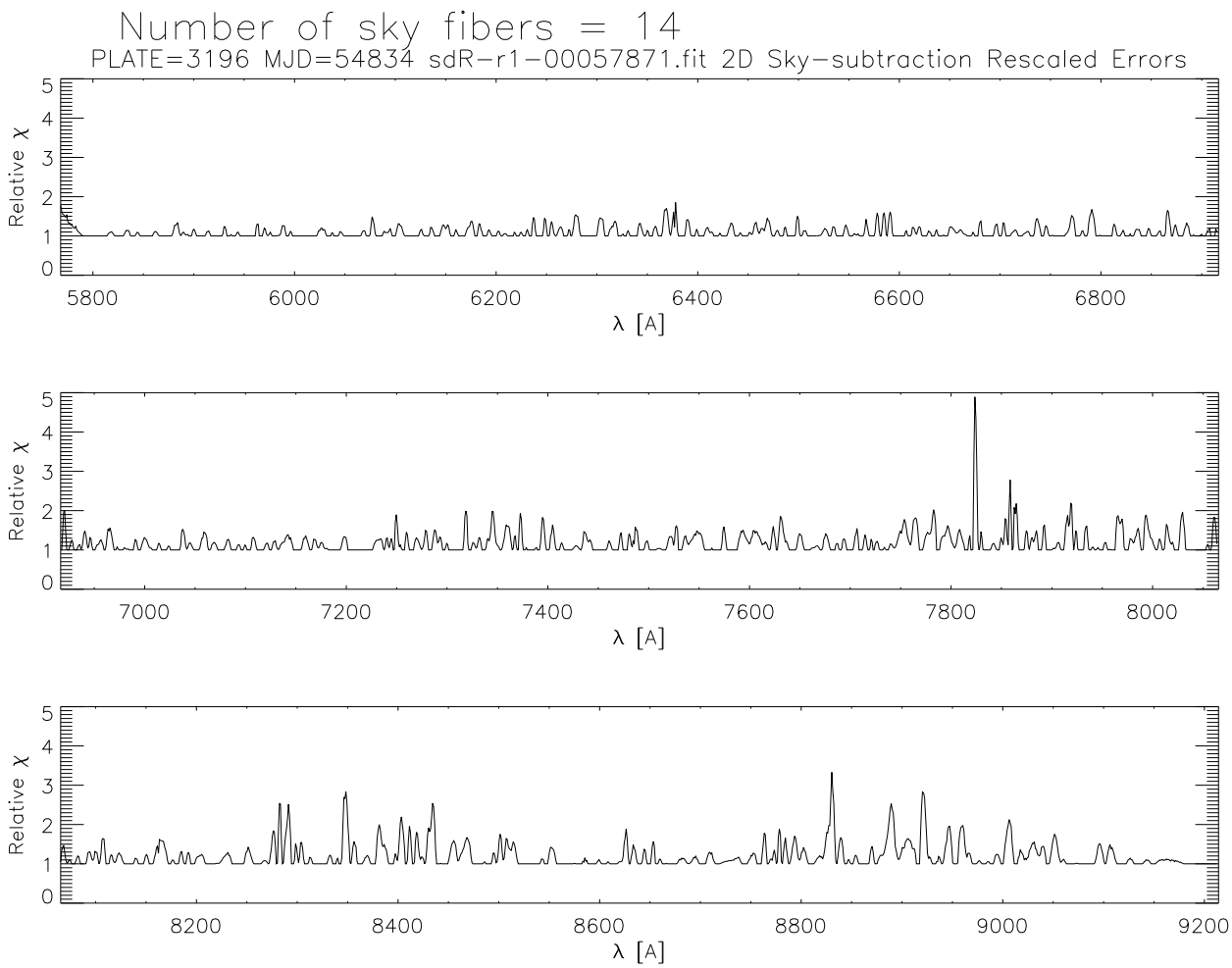

PLATE=3196 MJD=54834 sdR-r1-00057871.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1.5×10^4
1.0×10^4
5.0×10^3
0
-5.0×10^3
8820
8840
8860
8880
8900
λ [A]

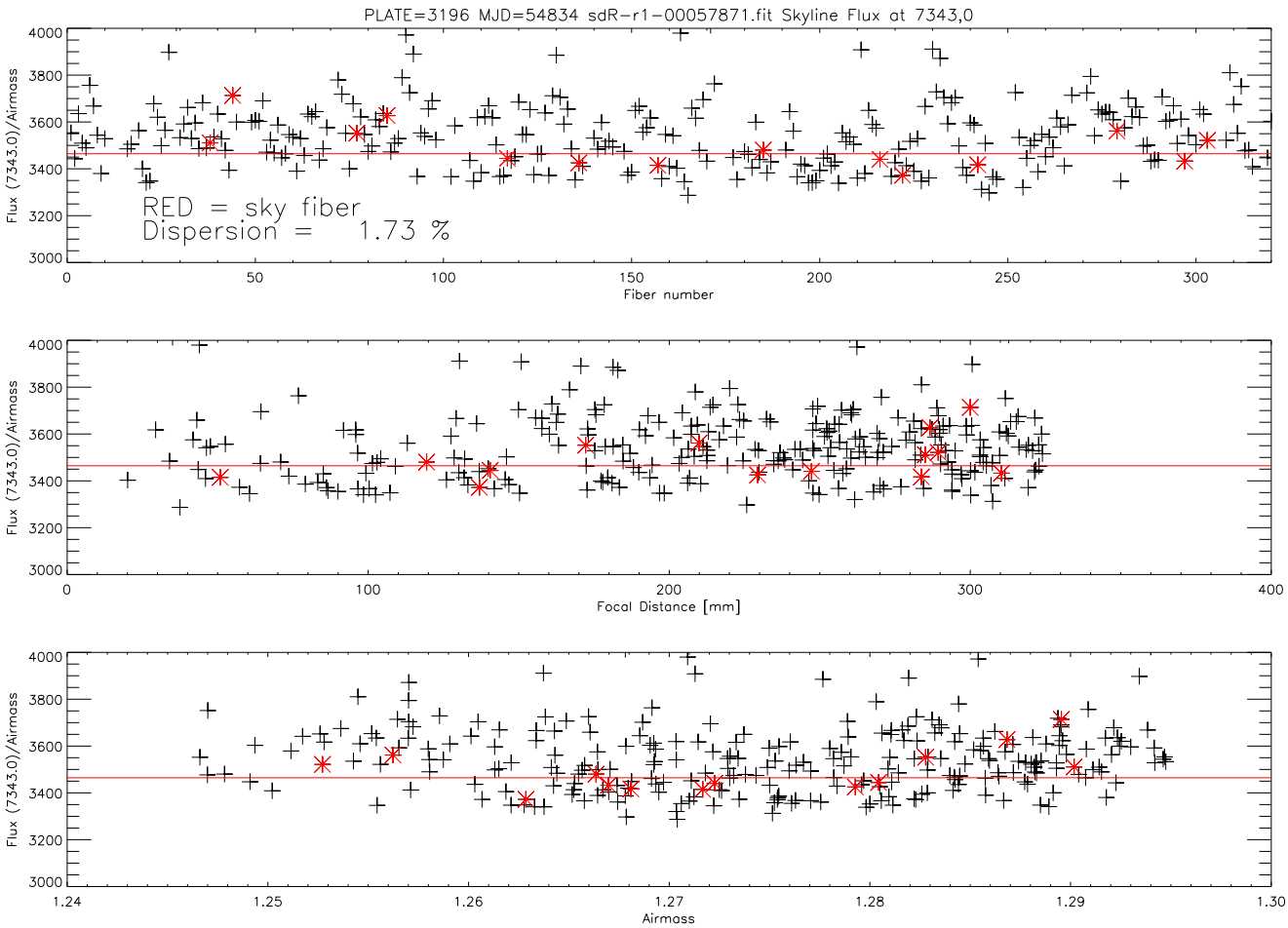

Number of sky fibers = 14
PLATE=3196 MJD=54834 sdR-r1-00057871.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

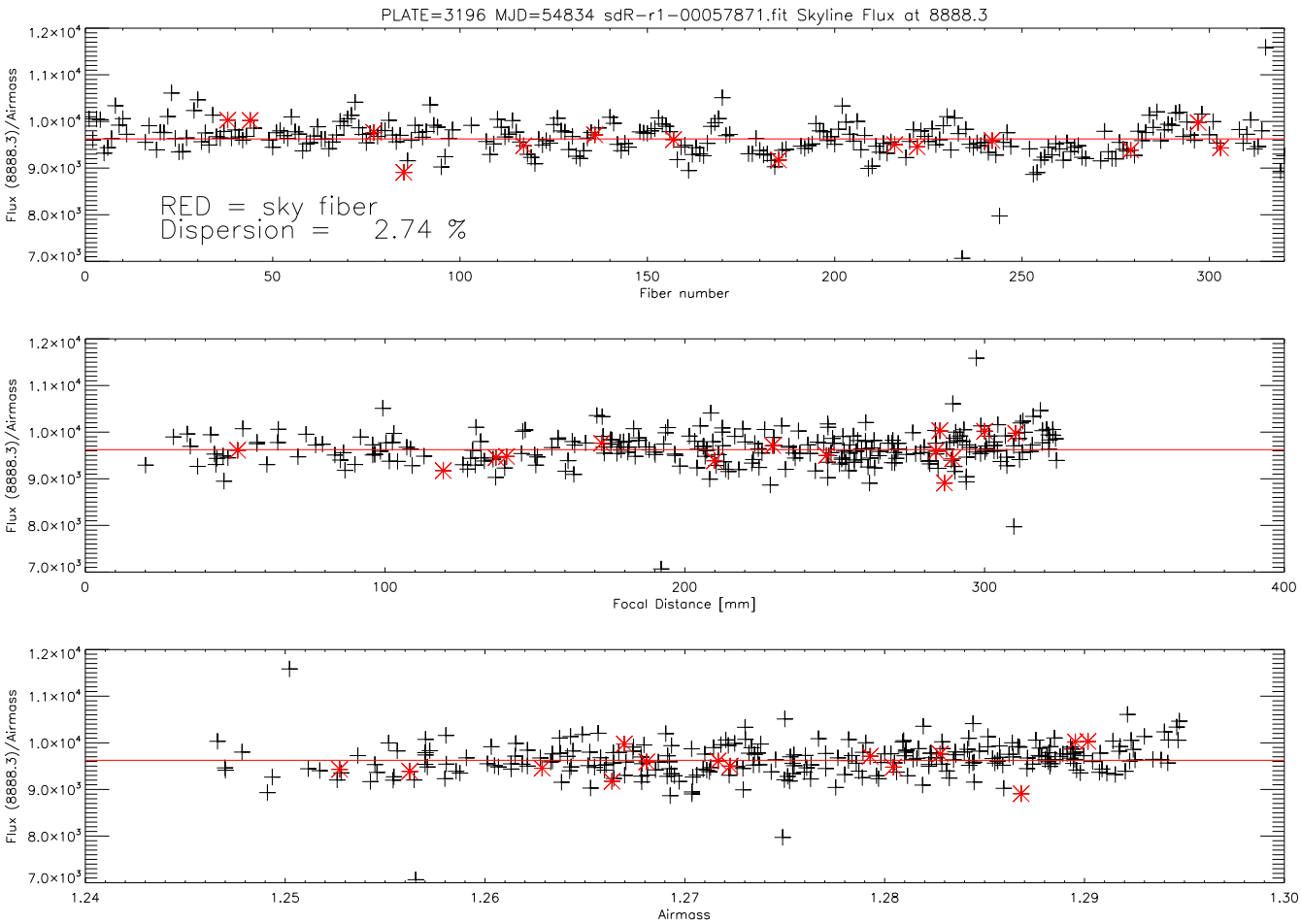

PLATE=3196 MJD=54834 sdR-r1-00057871.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
50
100
150
200
250
300
Fiber number

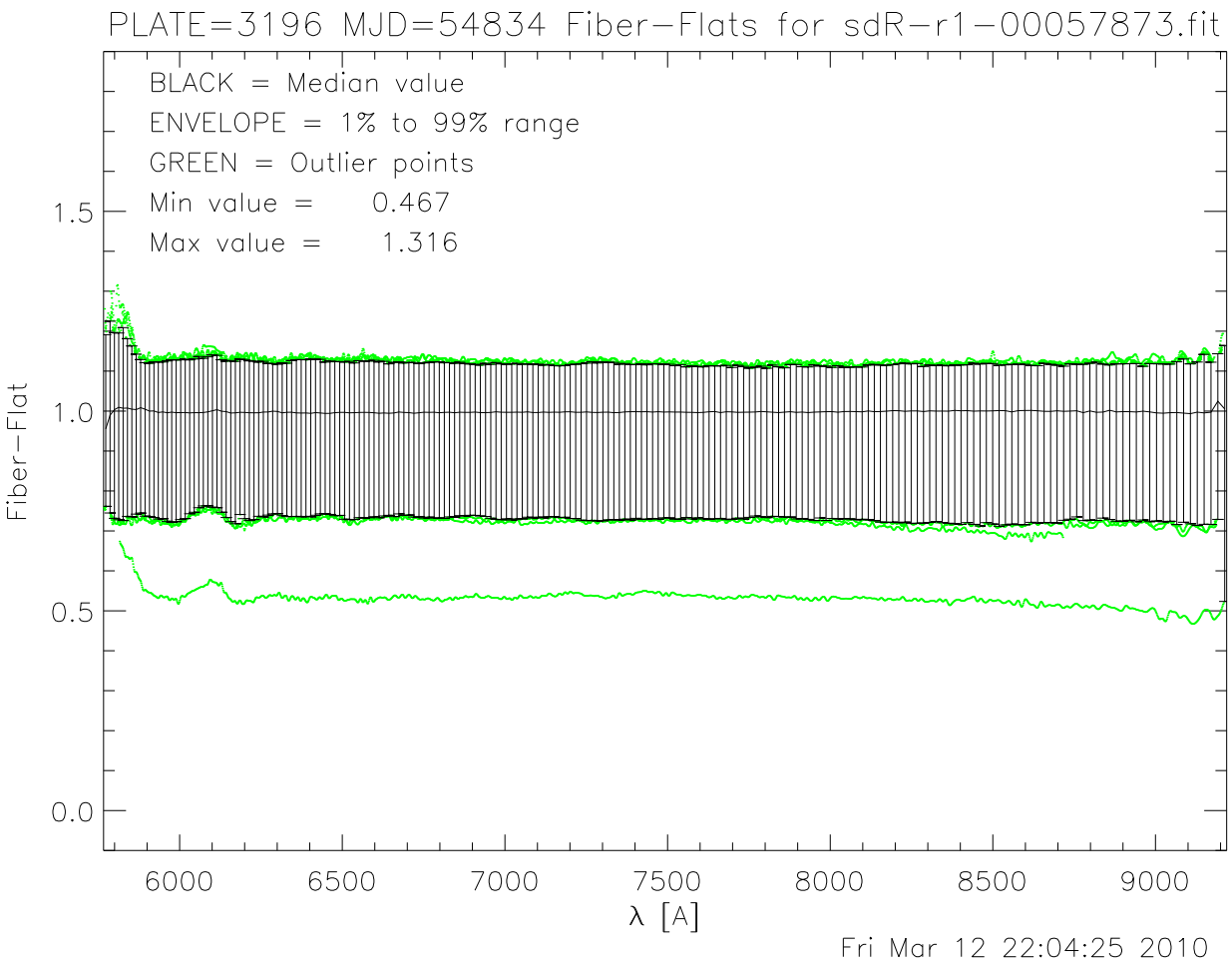

PLATE=3196 MJD=54834 sdR-r1-00057871.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2.0×10^4
1.5×10^4
1.0×10^4
5.0×10^3
0
8820
8840
8860
8880
8900
λ [A]

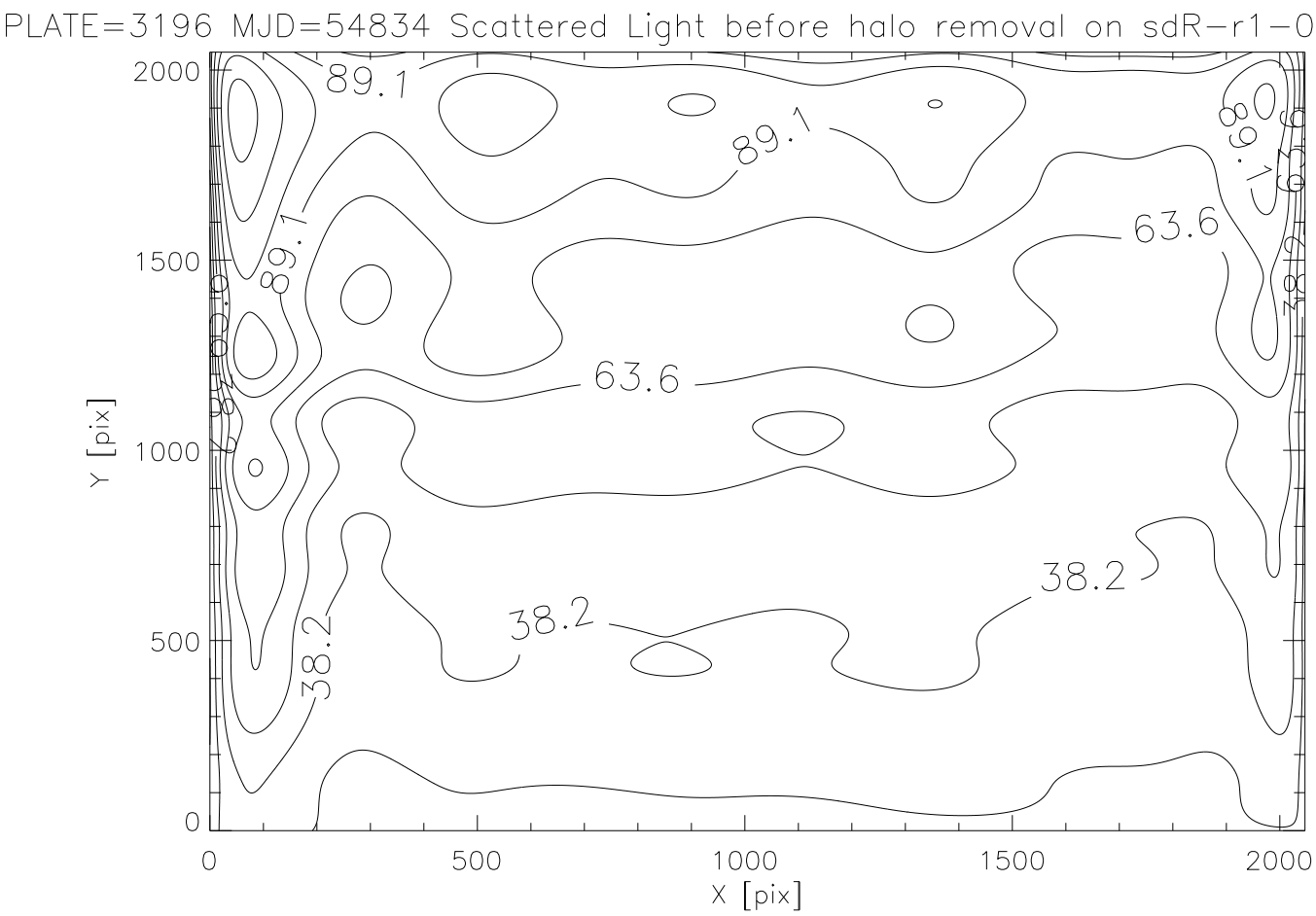

PLATE=3196 MJD=54834 sdR-r1-00057871.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1.4×10^4
1.2×10^4
1.0×10^4
8.0×10^3
6.0×10^3
4.0×10^3
2.0×10^3
0
−2.0×10^3
8820
8840
8860
8880
8900
λ [A]

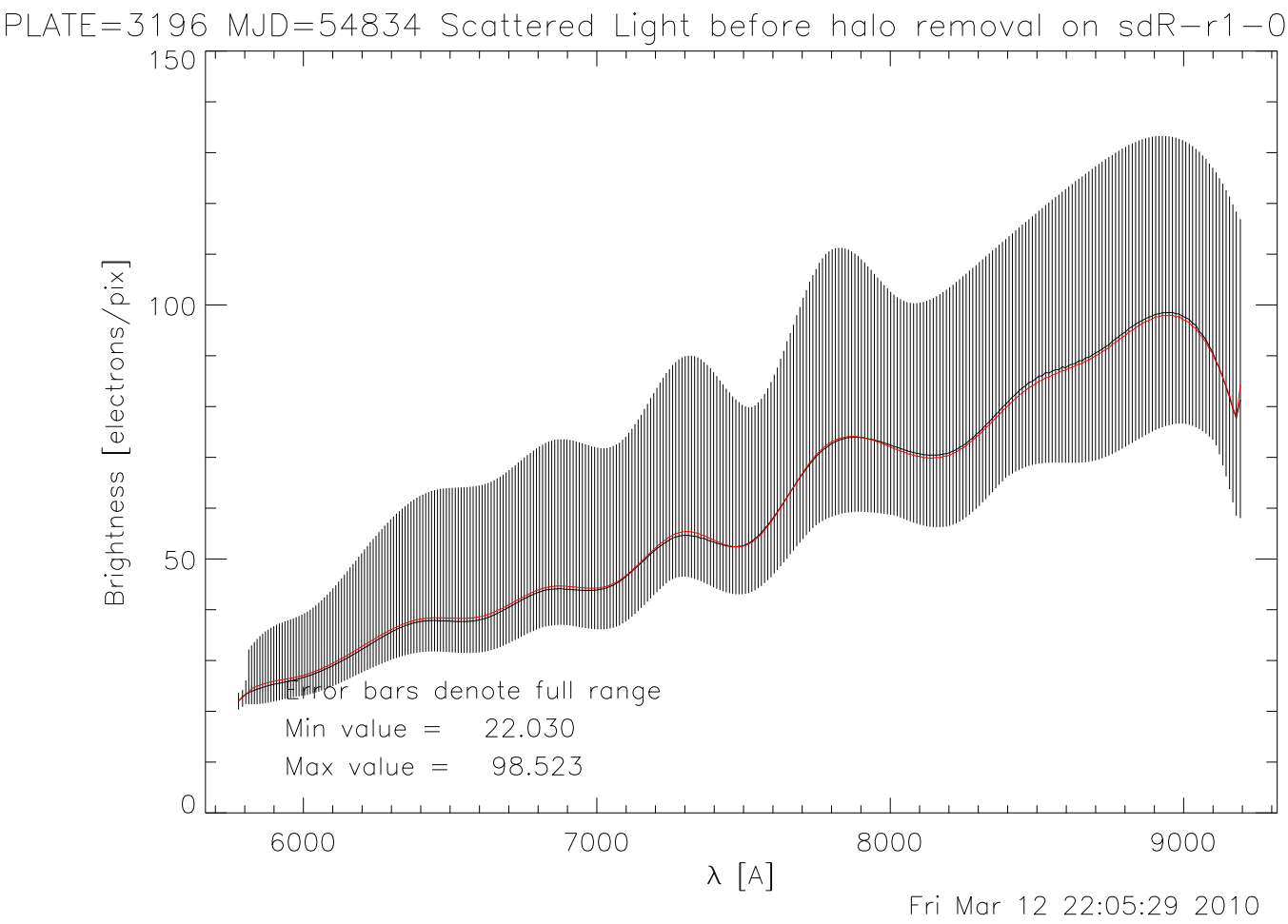

Number of sky fibers = 14
PLATE=3196 MJD=54834 sdR-r1-00057871.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

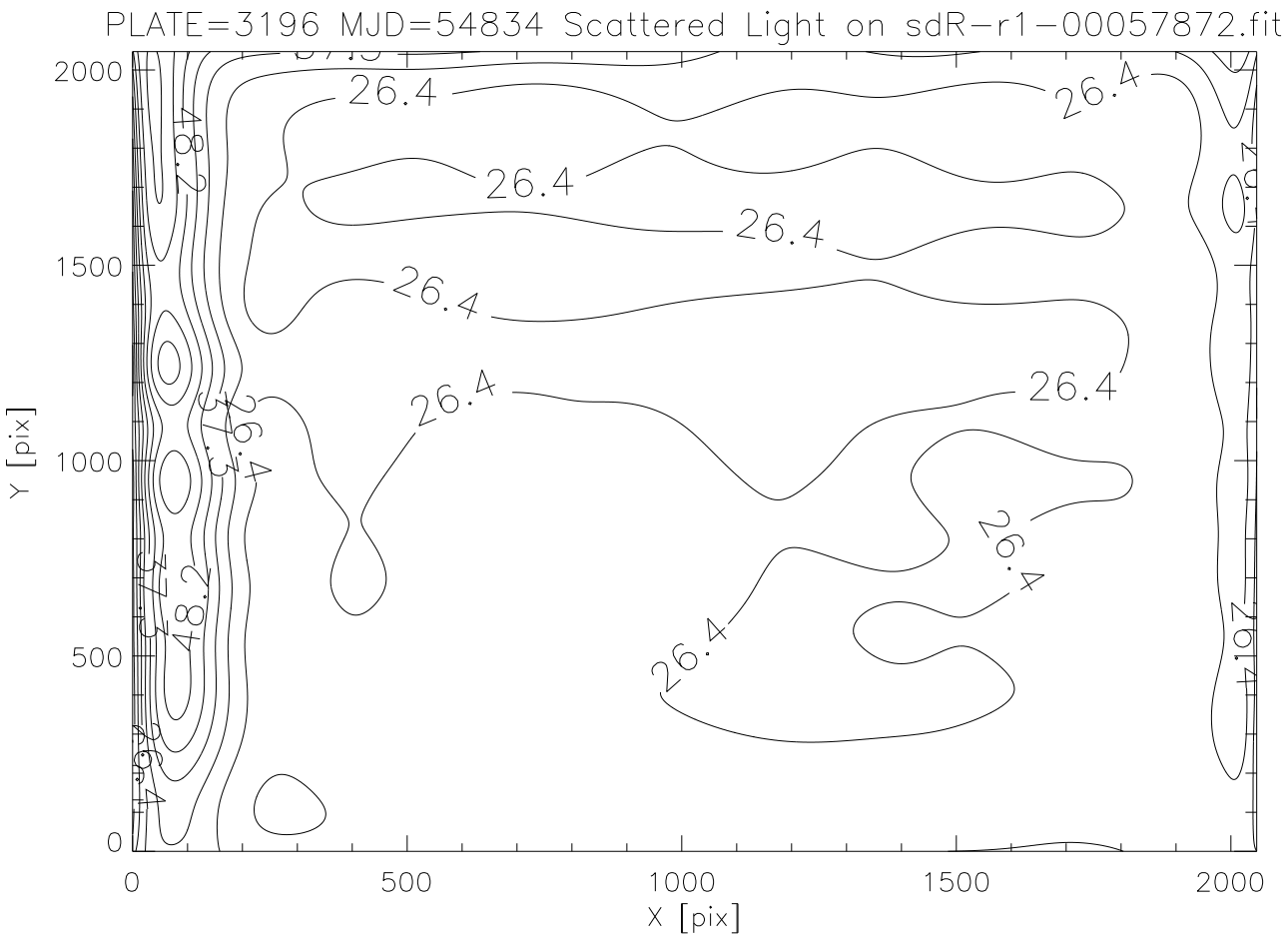

PLATE=3196 MJD=54834 sdR-r1-00057871.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 1.73 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

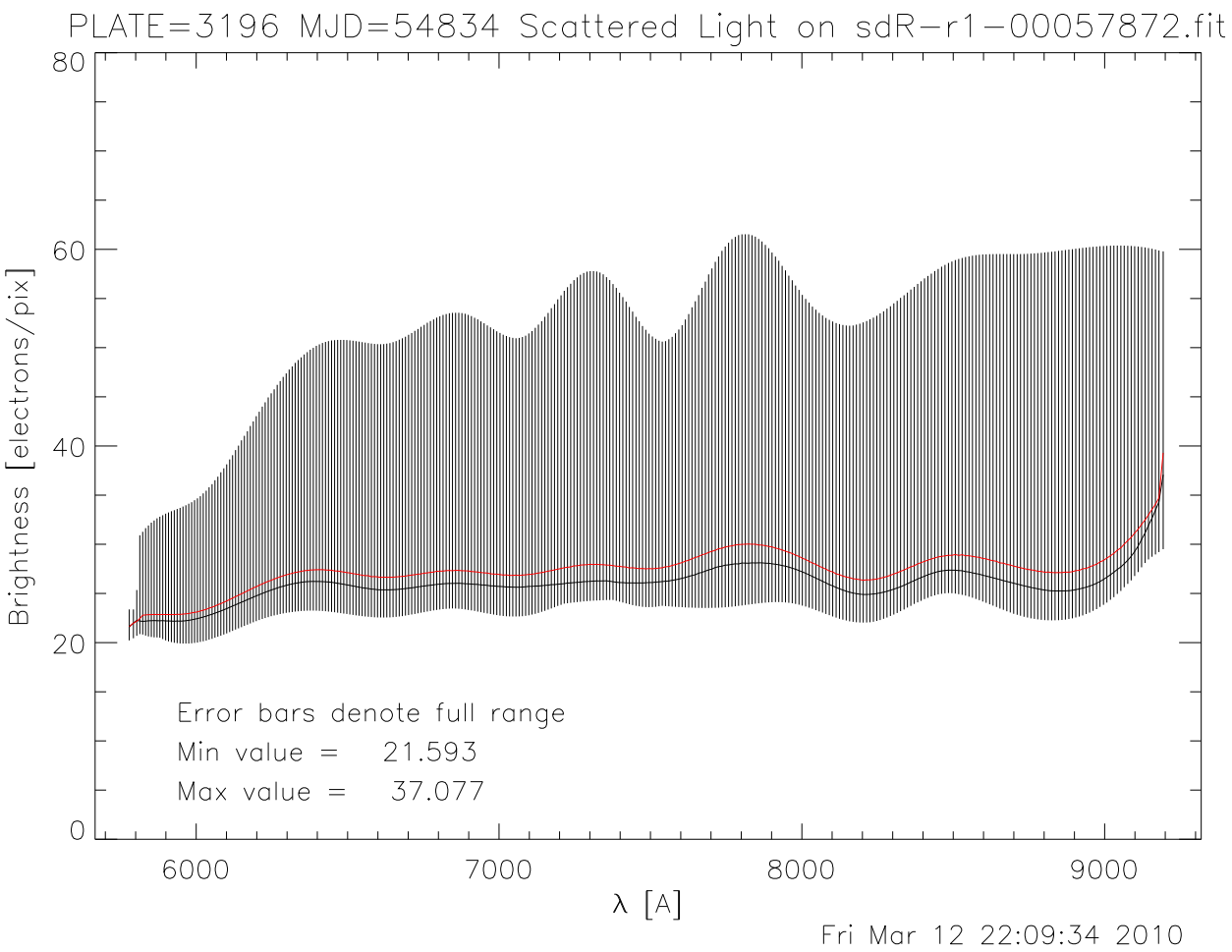

PLATE=3196 MJD=54834 sdR-r1-00057871.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.74 %
Fiber number
Focal Distance [mm]
Airmass

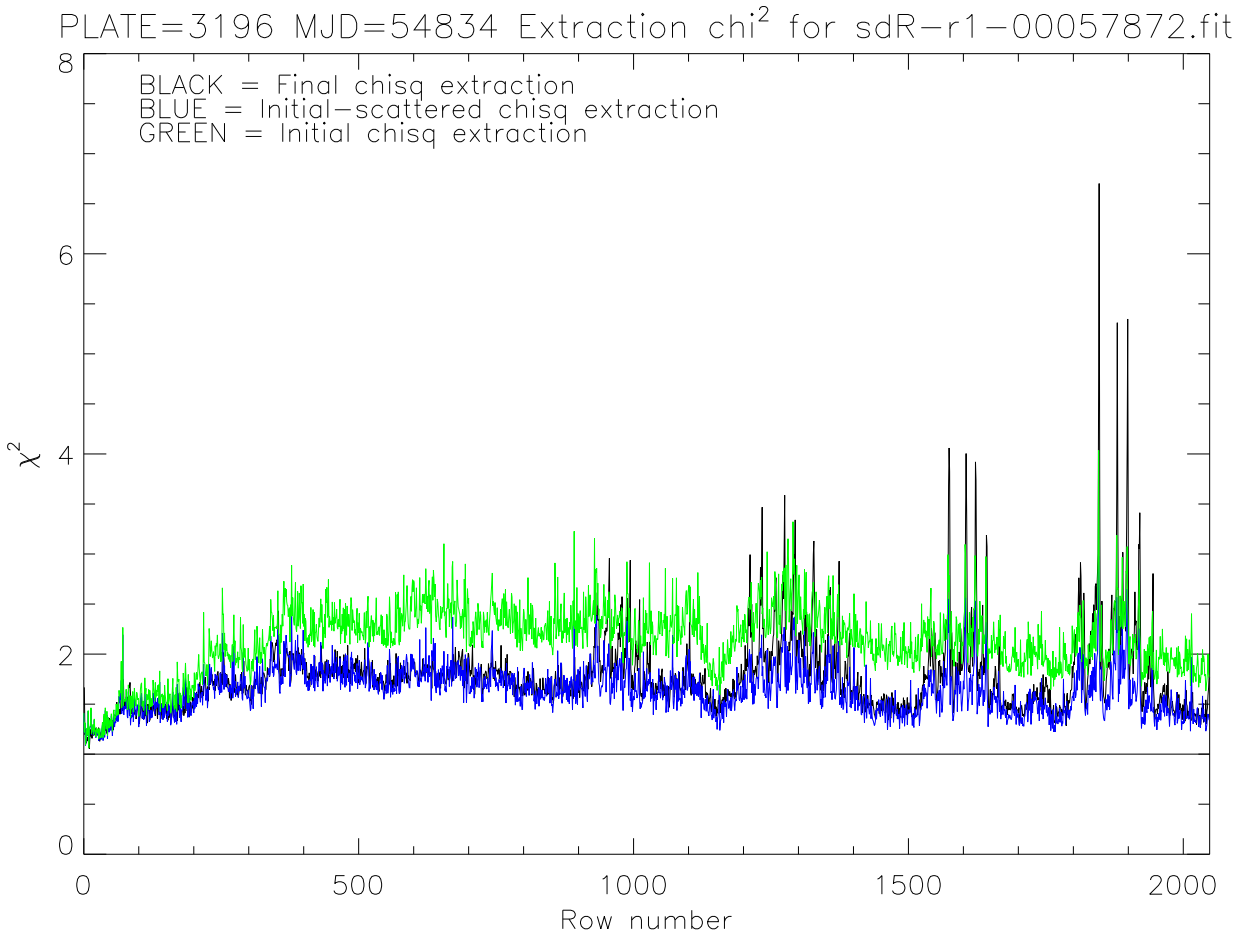

PLATE=3196 MJD=54834 Fiber−Flats for sdR−r1−00057873.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.467
Max value = 1.316
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Fri Mar 12 22:04:25 2010

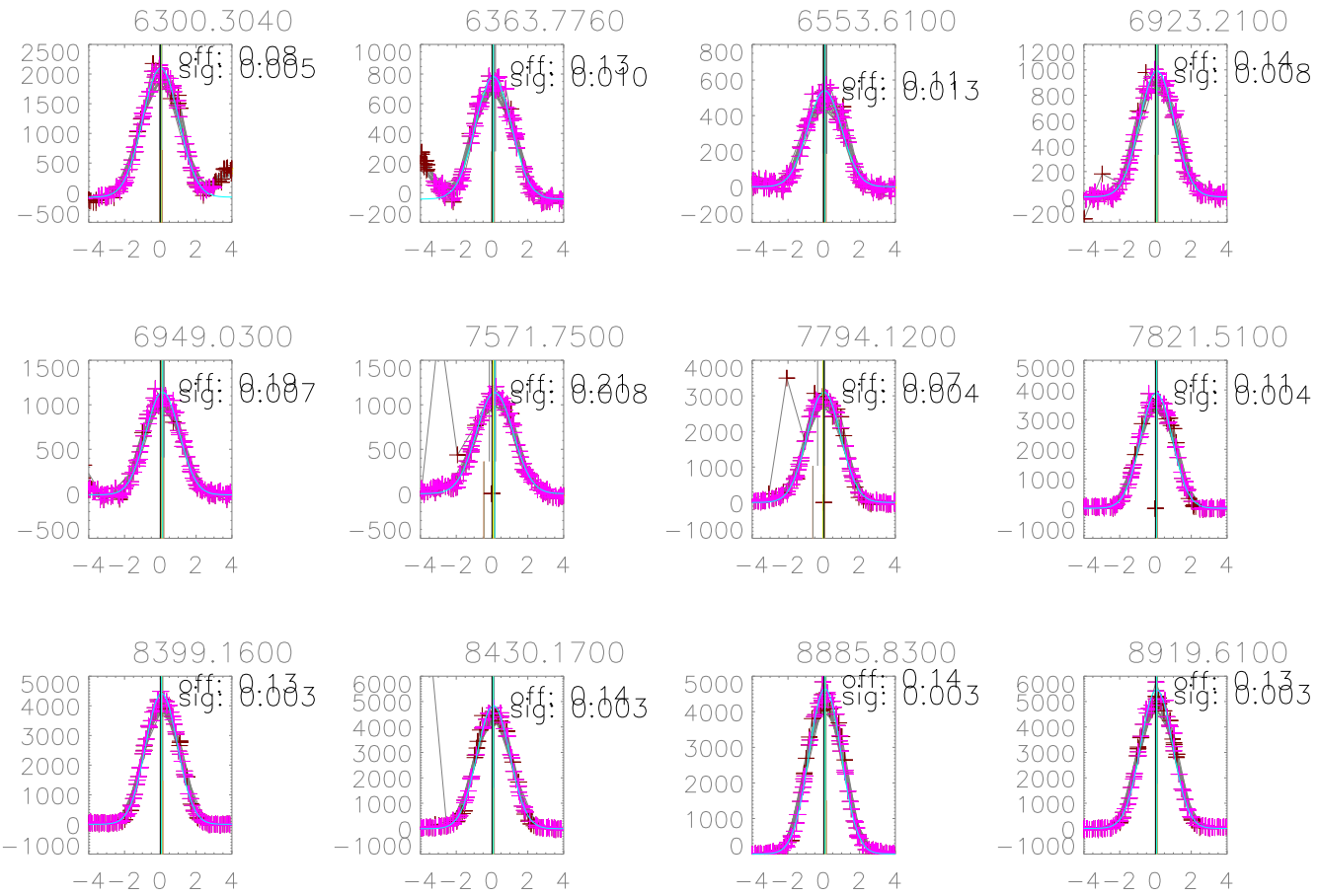

PLATE=3196 MJD=54834 Scattered Light before halo removal on sdR-r1-00057872.fi
89.1
89.1
89.1
89.1
63.6
63.6
38.2
38.2
38.2
0
2000
1500
1000
500
0
0
500
1000
1500
2000
Y [pix]
X [pix]

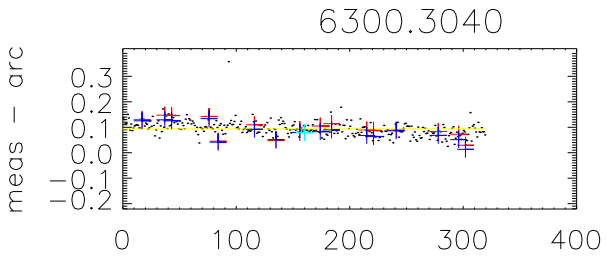

PLATE=3196 MJD=54834 Scattered Light before halo removal on sdR-r1-00057872.fi
150
100
50
0
Brightness [electrons/pix]
Error bars denote full range
Min value = 22.030
Max value = 98.523
6000
7000
8000
9000
λ [A]
Fri Mar 12 22:05:29 2010

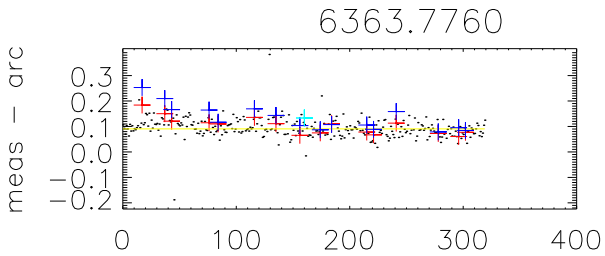

PLATE=3196 MJD=54834 Scattered Light on sdR−r1−00057872.fit
26.4
26.4
26.4
26.4
26.4
26.4
26.4
26.4
48.2
48.2
48.2

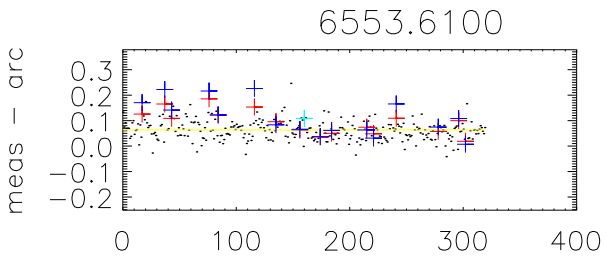

PLATE=3196 MJD=54834 Scattered Light on sdR-r1-00057872.fit
Brightness [electrons/pix]
80
60
40
20
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 21.593
Max value = 37.077
Fri Mar 12 22:09:34 2010

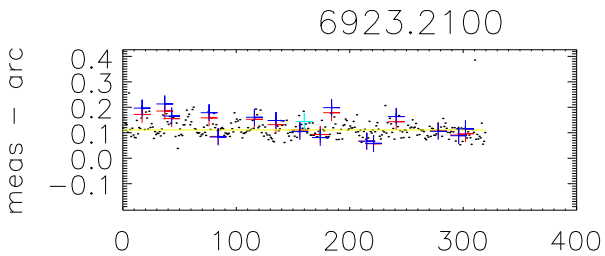

PLATE=3196 MJD=54834 Extraction chi^2 for sdR-r1-00057872.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

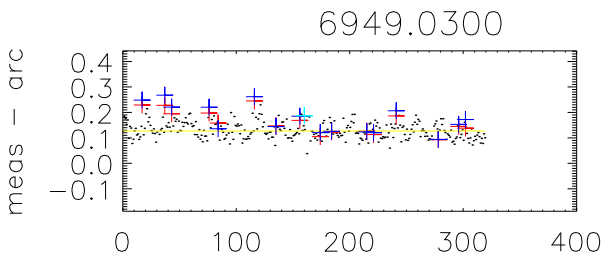

6300.3040
off: 0.08
sig: 0.005
6363.7760
off: 0.13
sig: 0.010
6553.6100
off: 0.11
sig: 0.013
6923.2100
off: 0.14
sig: 0.008
6949.0300
off: 0.19
sig: 0.007
7571.7500
off: 0.21
sig: 0.008
7794.1200
off: 0.07
sig: 0.004
7821.5100
off: 0.11
sig: 0.004
8399.1600
off: 0.13
sig: 0.003
8430.1700
off: 0.14
sig: 0.003
8885.8300
off: 0.14
sig: 0.003
8919.6100
off: 0.13
sig: 0.003

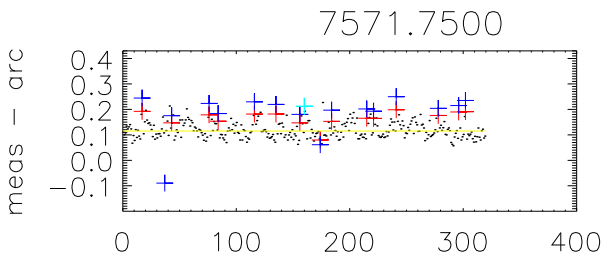

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

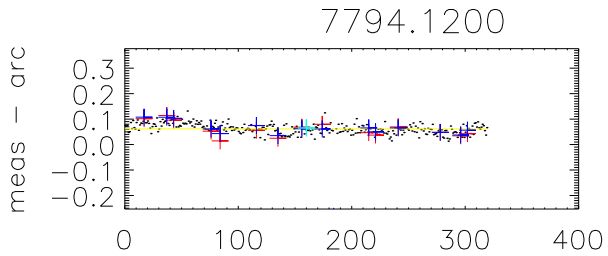

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

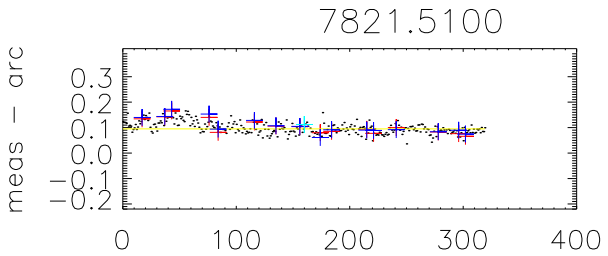

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

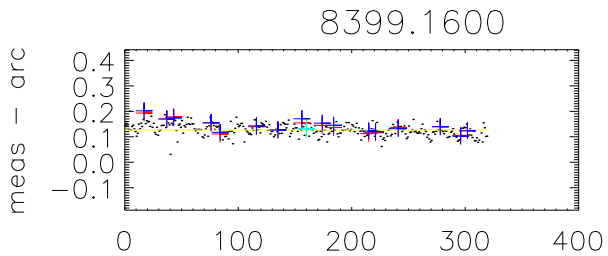

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

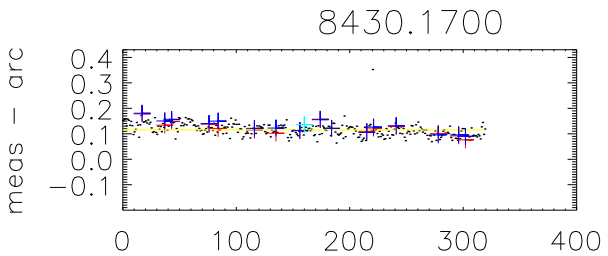

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

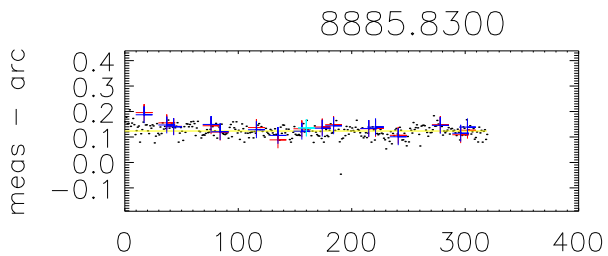

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

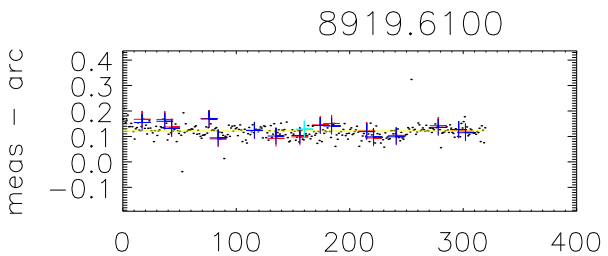

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

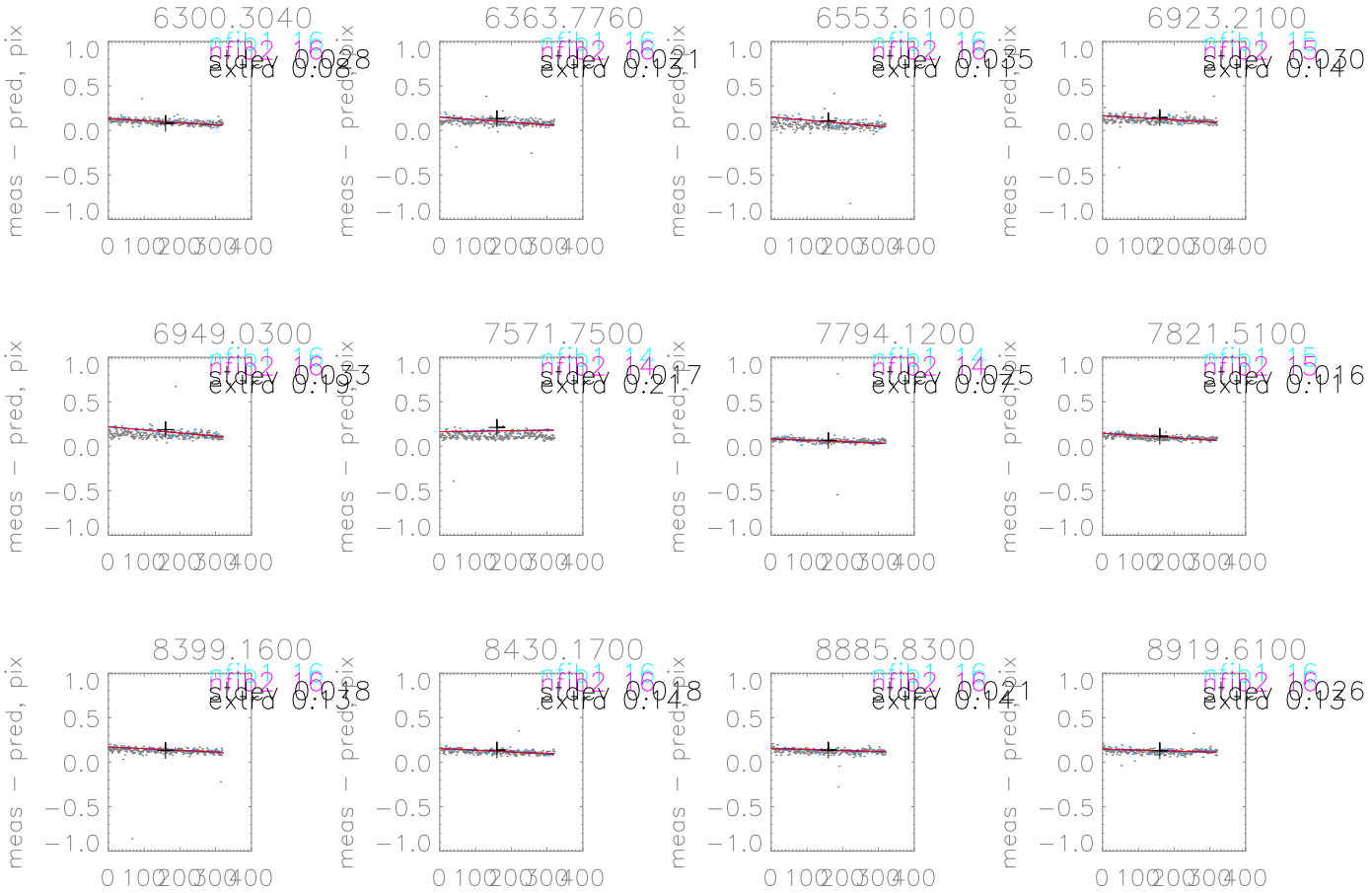

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

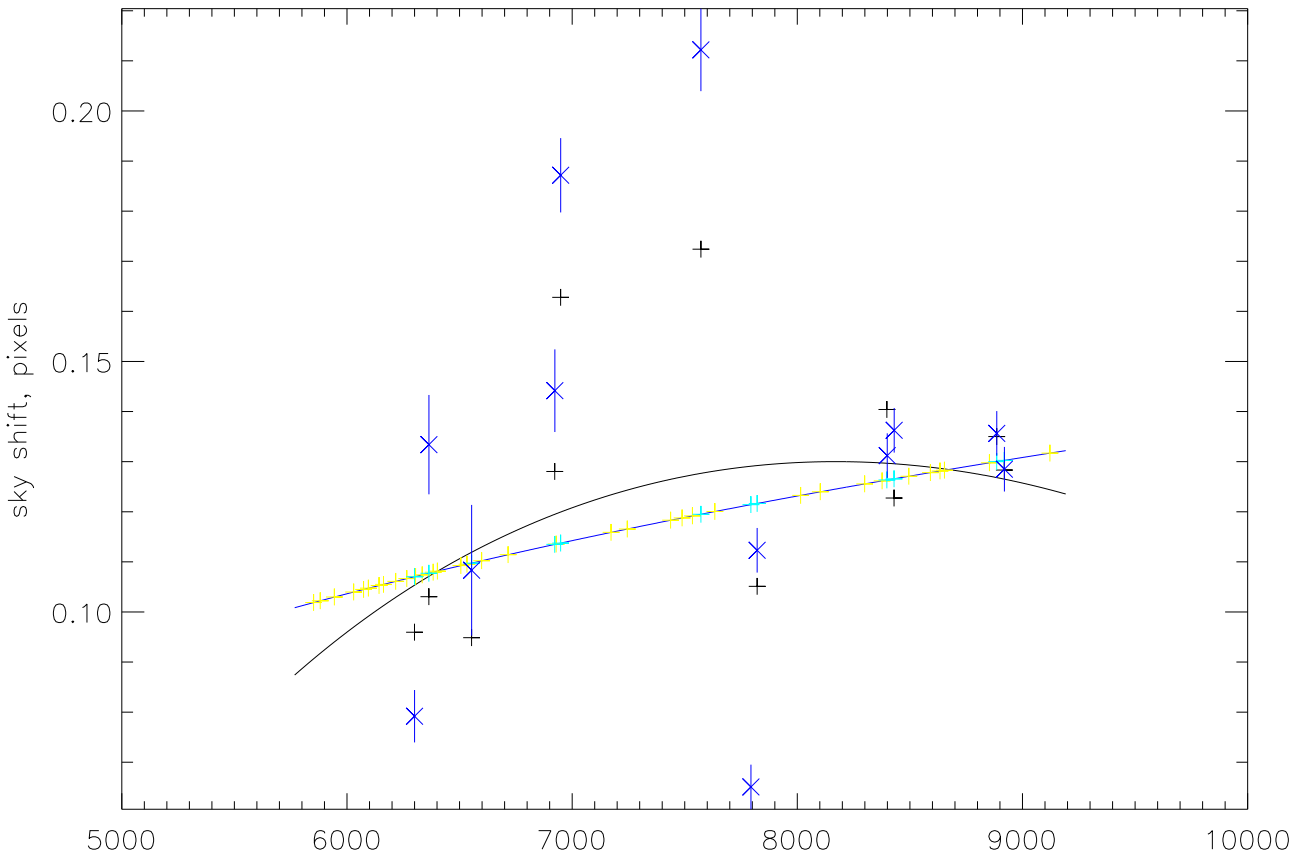

8399.1600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

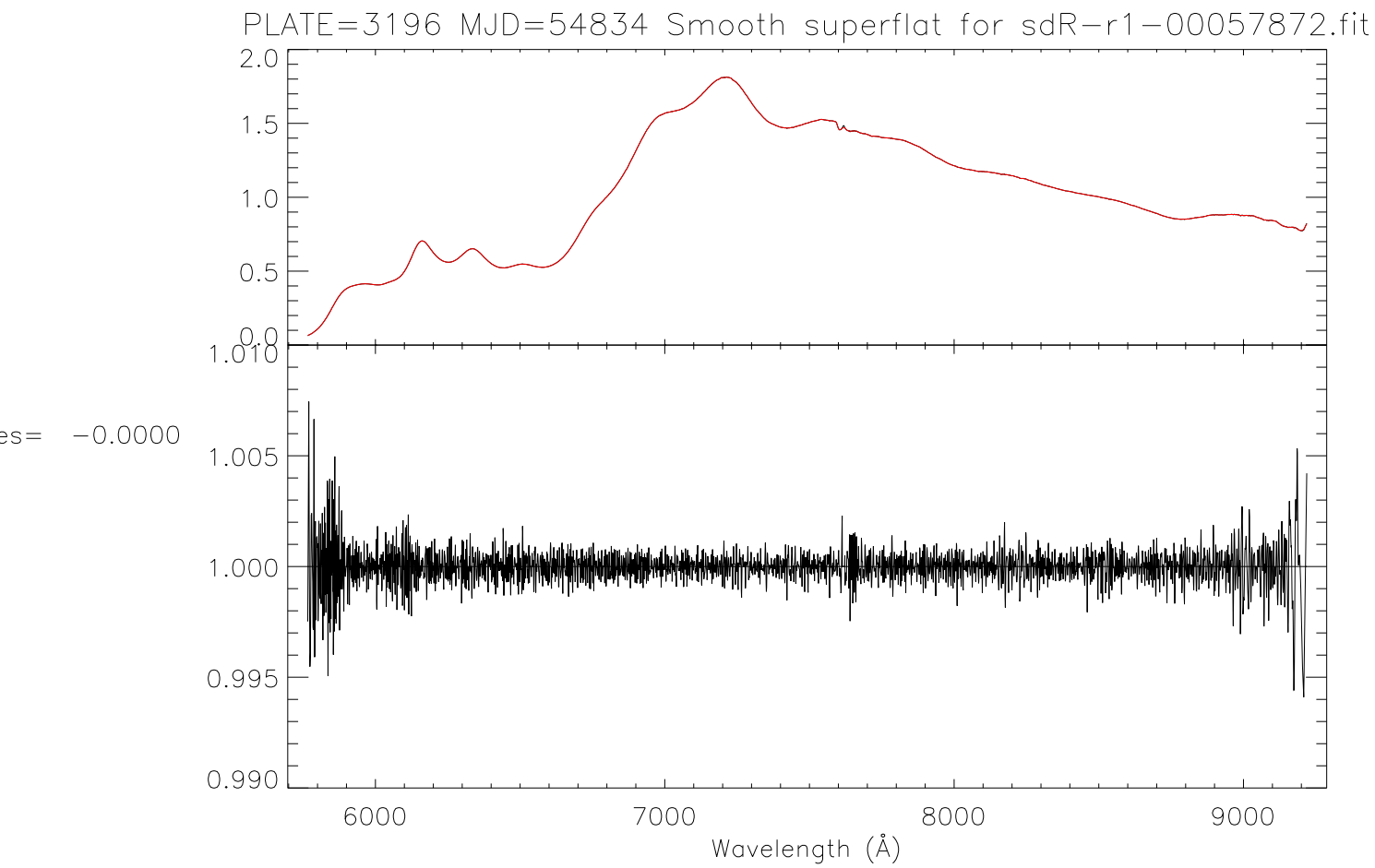

8430.1700
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

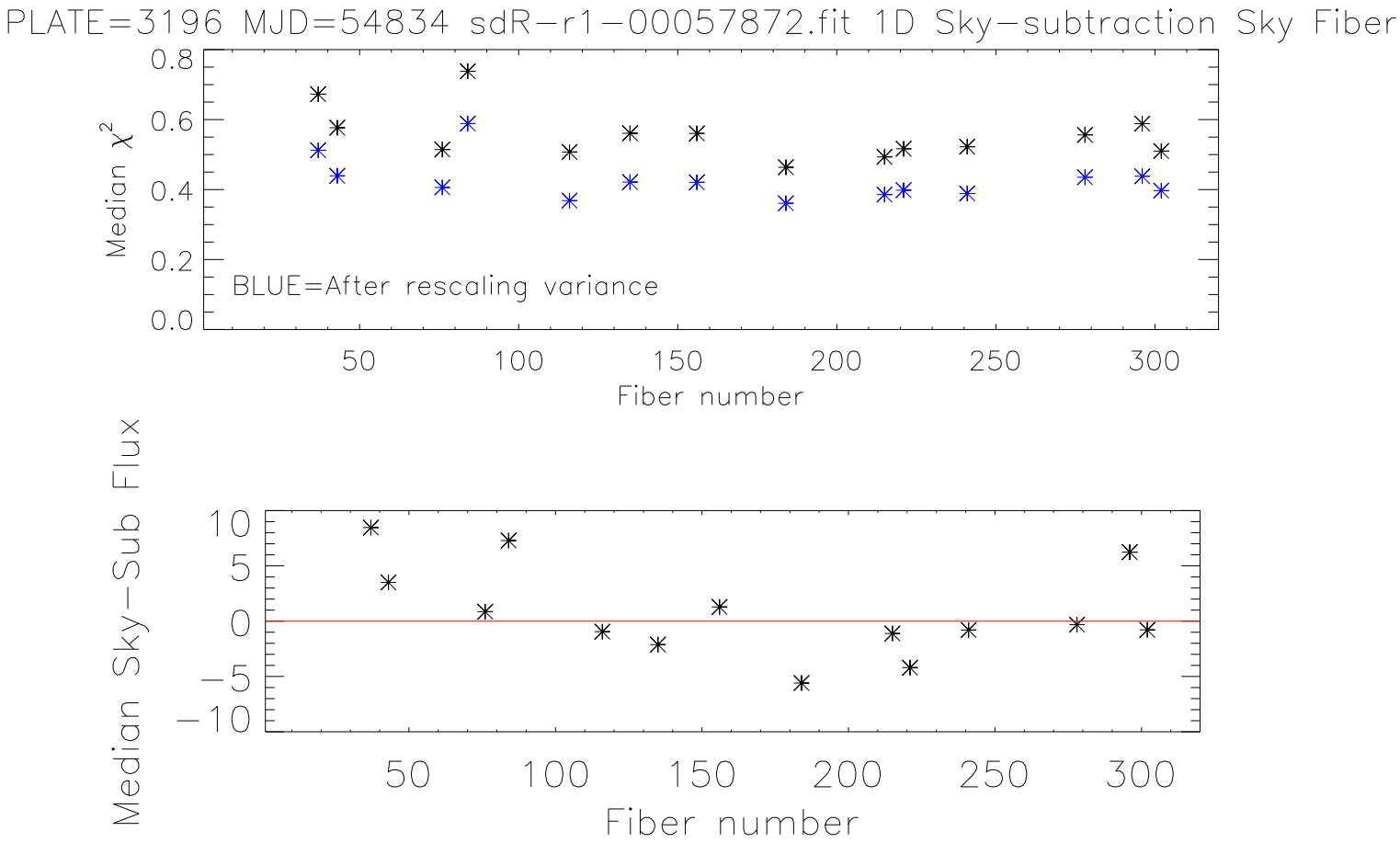

8885.8300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

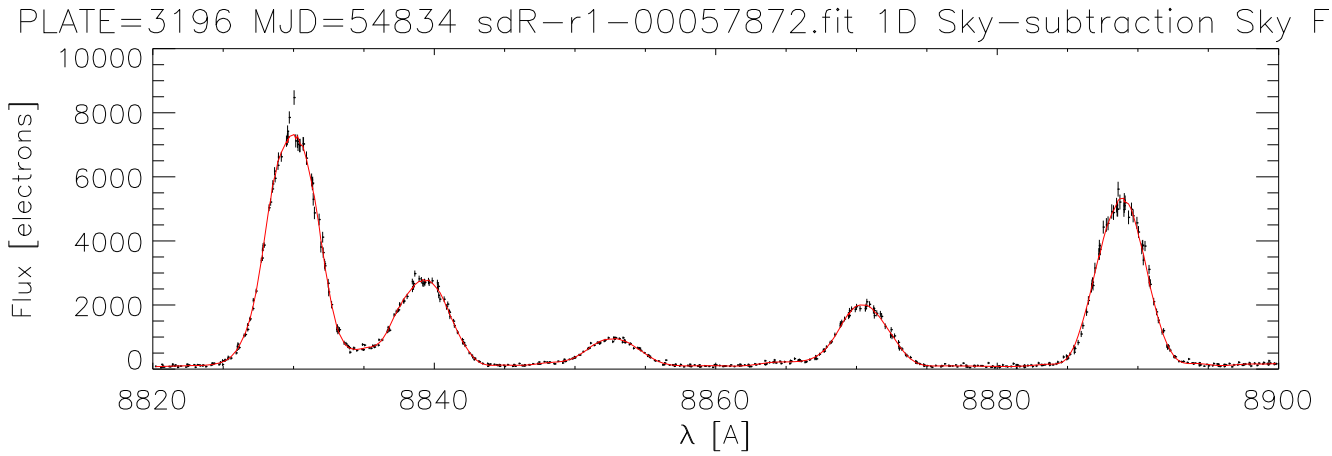

8919.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

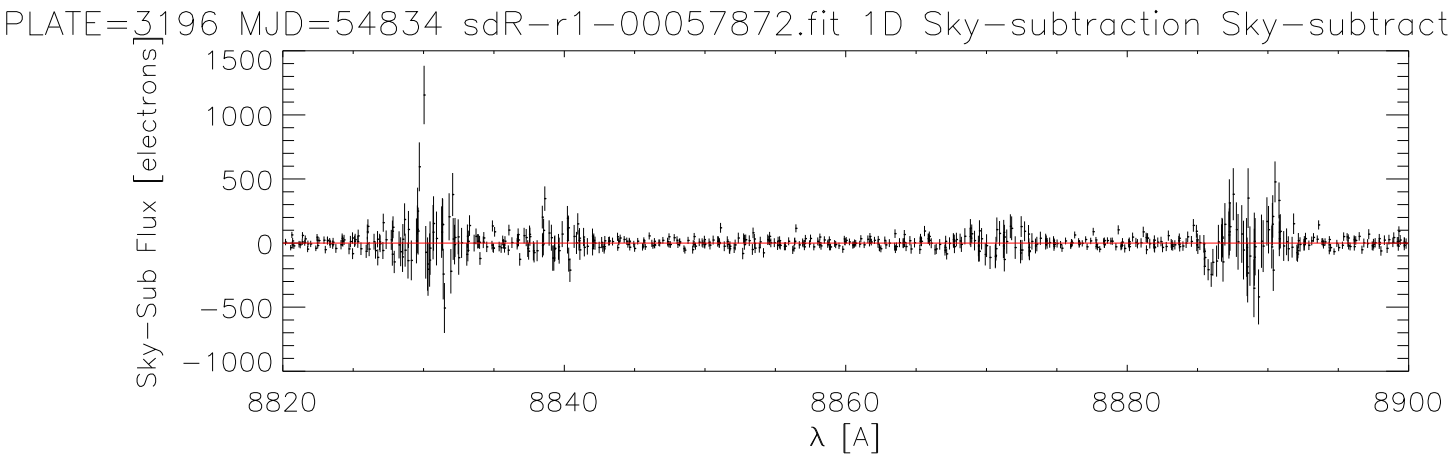

6300.3040
mfib1 16
mfib2 16
stdev 0.028
extra 0.088
6363.7760
mfib1 16
mfib2 16
stdev 0.021
extra 0.13
6553.6100
mfib1 16
mfib2 16
stdev 0.025
extra 0.105
6923.2100
mfib1 15
mfib2 15
stdev 0.030
extra 0.14
6949.0300
mfib1 16
mfib2 16
stdev 0.033
extra 0.193
7571.7500
mfib1 14
mfib2 14
stdev 0.017
extra 0.217
7794.1200
mfib1 14
mfib2 14
stdev 0.025
extra 0.07
7821.5100
mfib1 15
mfib2 15
stdev 0.016
extra 0.11
8399.1600
mfib1 16
mfib2 16
stdev 0.018
extra 0.13
8430.1700
mfib1 16
mfib2 16
stdev 0.018
extra 0.14
8885.8300
mfib1 16
mfib2 16
stdev 0.021
extra 0.14
8919.6100
mfib1 16
mfib2 16
stdev 0.026
extra 0.13
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

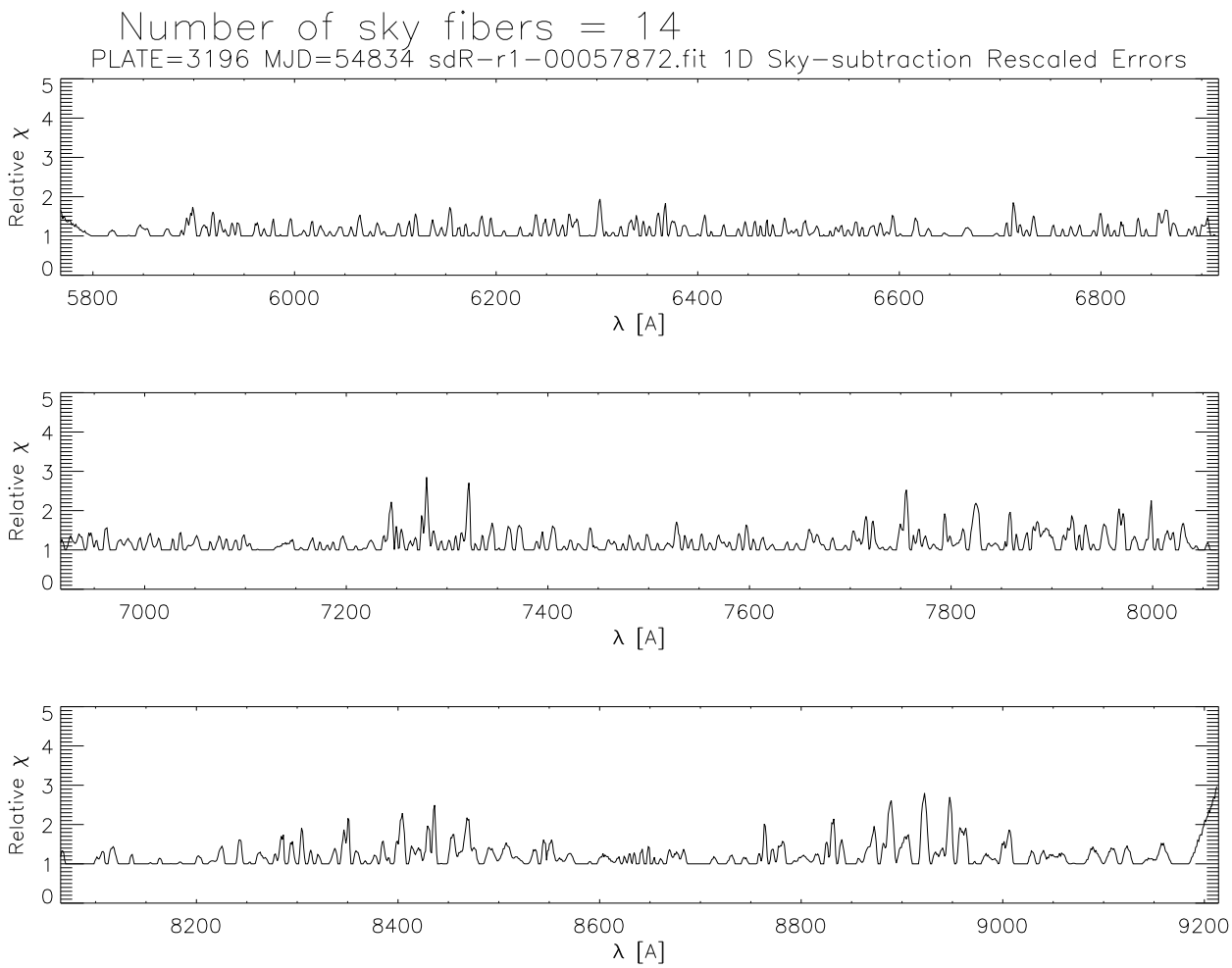

sky shift, pixels
0.20
0.15
0.10
5000
6000
7000
8000
9000
10000

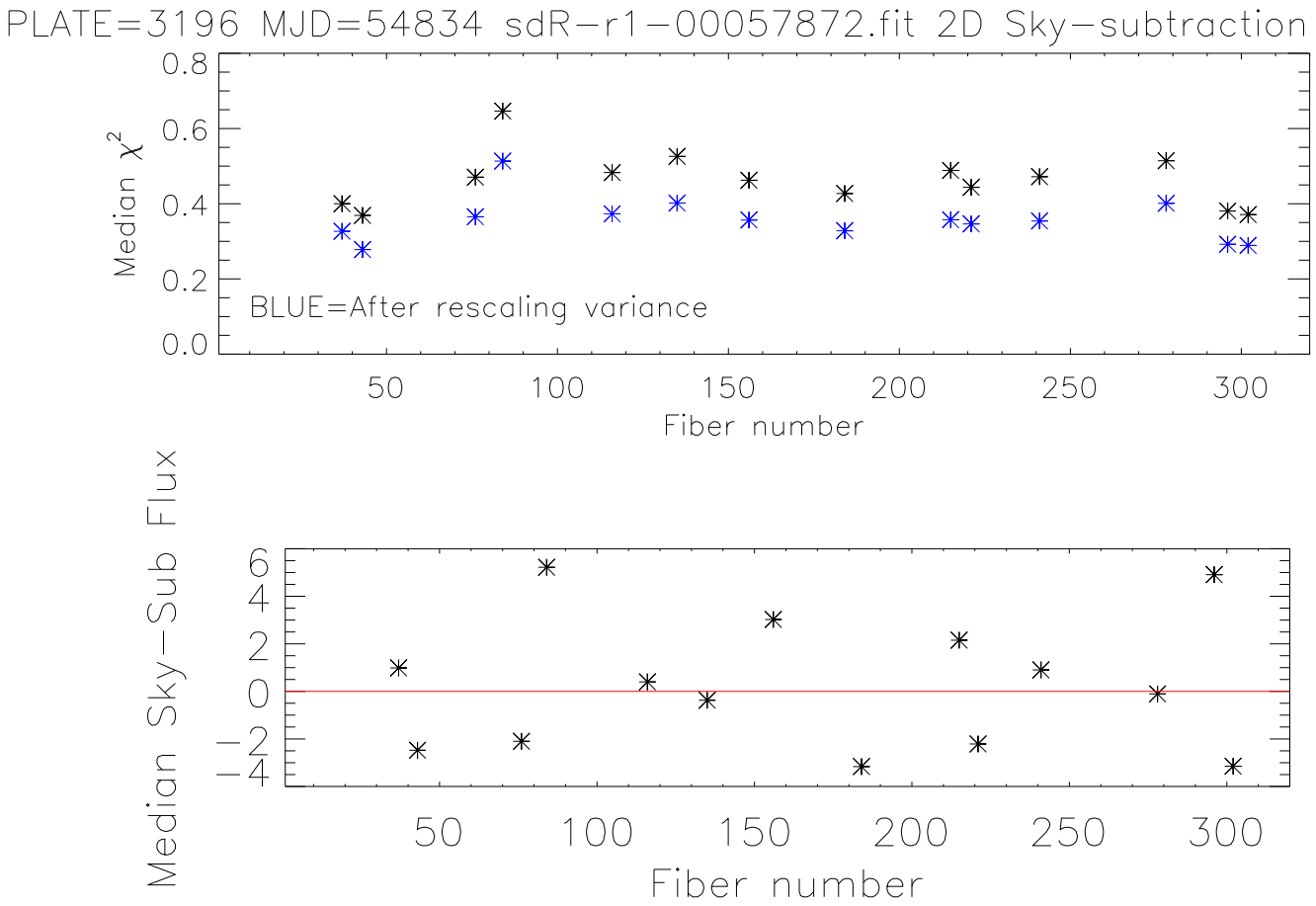

PLATE=3196 MJD=54834 Smooth superflat for sdR-r1-00057872.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

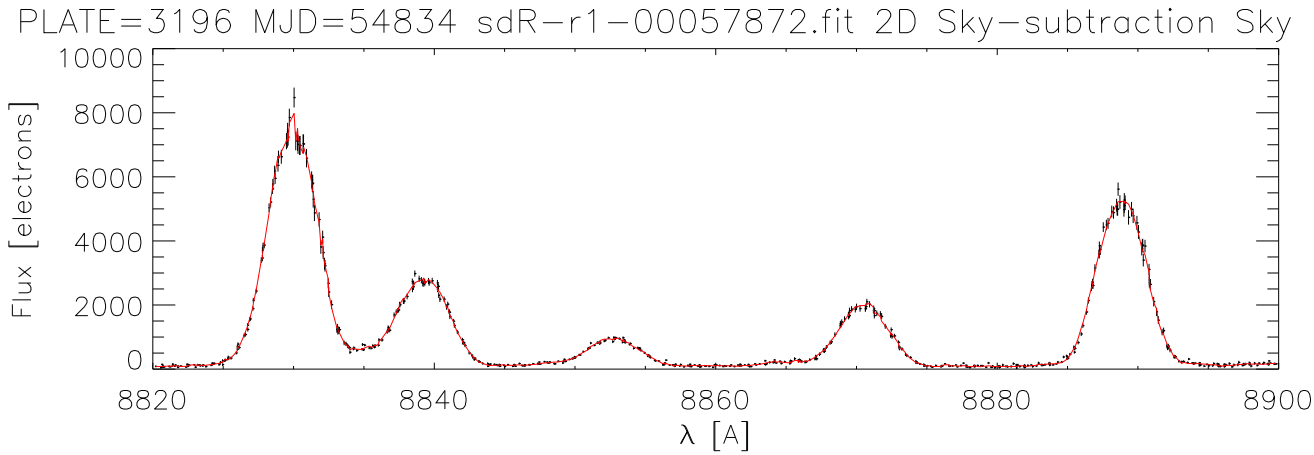

PLATE=3196 MJD=54834 sdR-r1-00057872.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

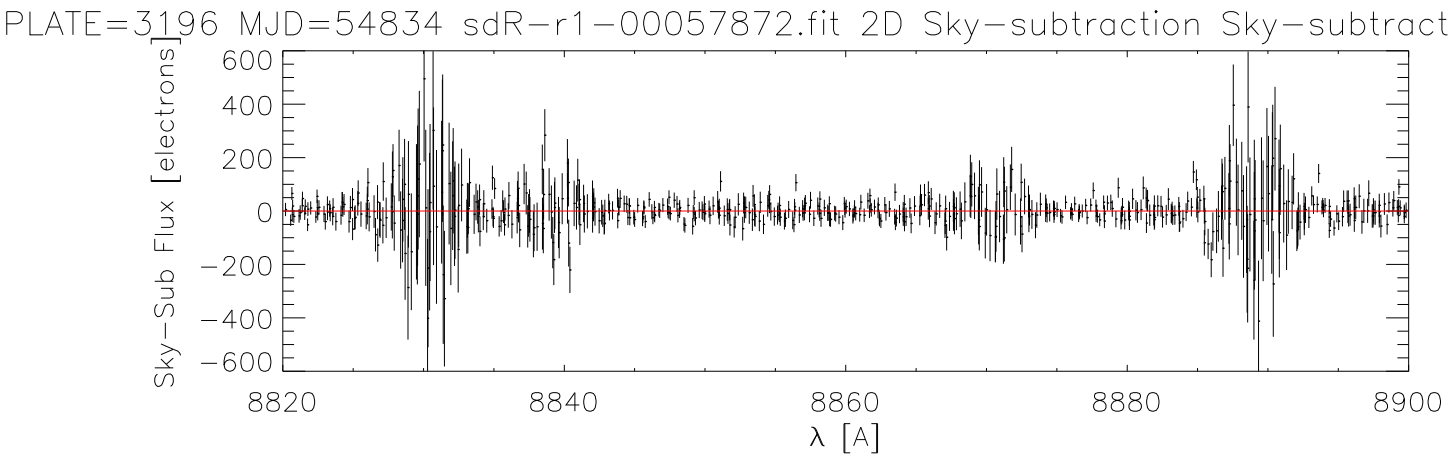

PLATE=3196 MJD=54834 sdR-r1-00057872.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

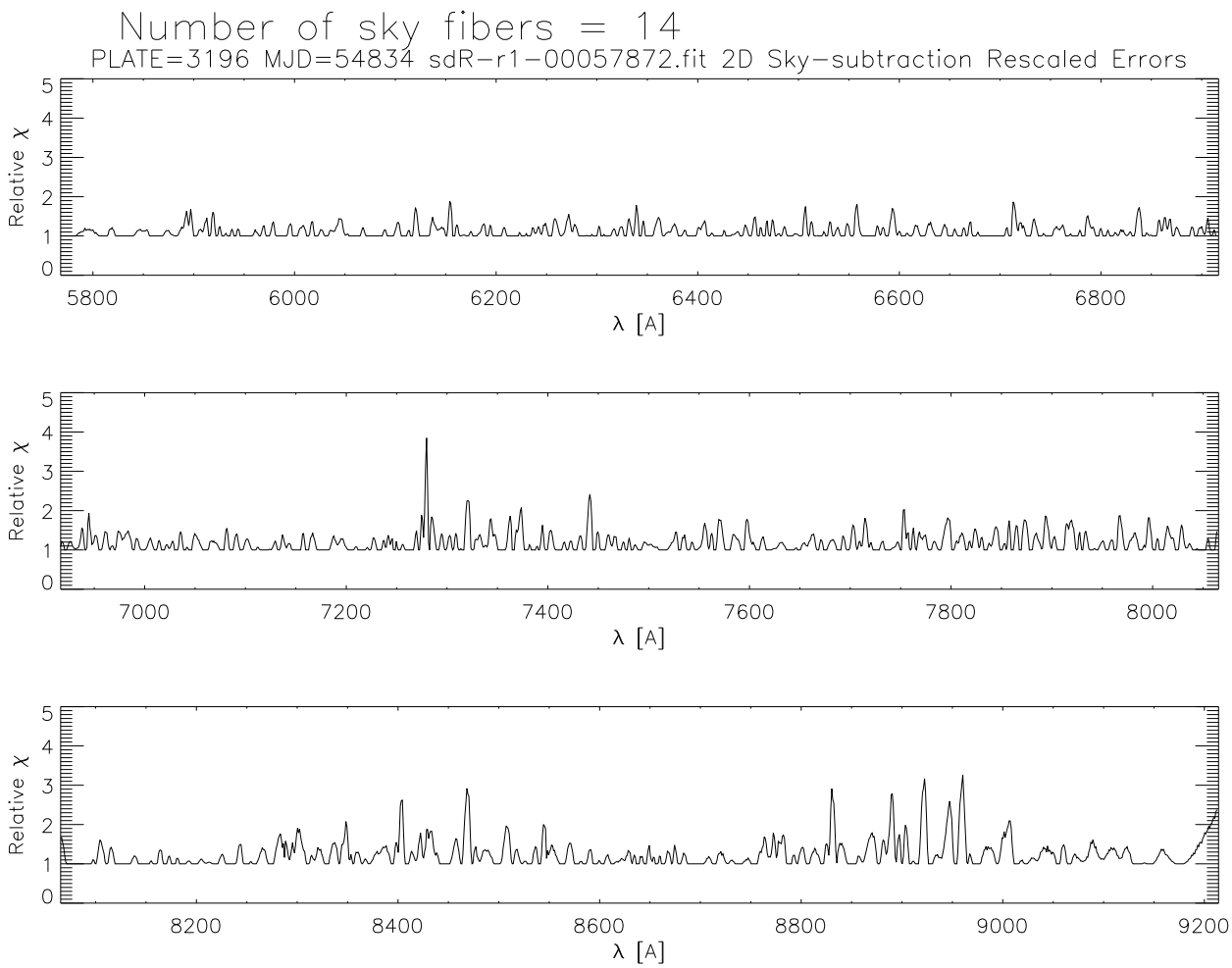

PLATE=3196 MJD=54834 sdR-r1-00057872.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
-1000
8820
8840
8860
8880
8900
λ [A]

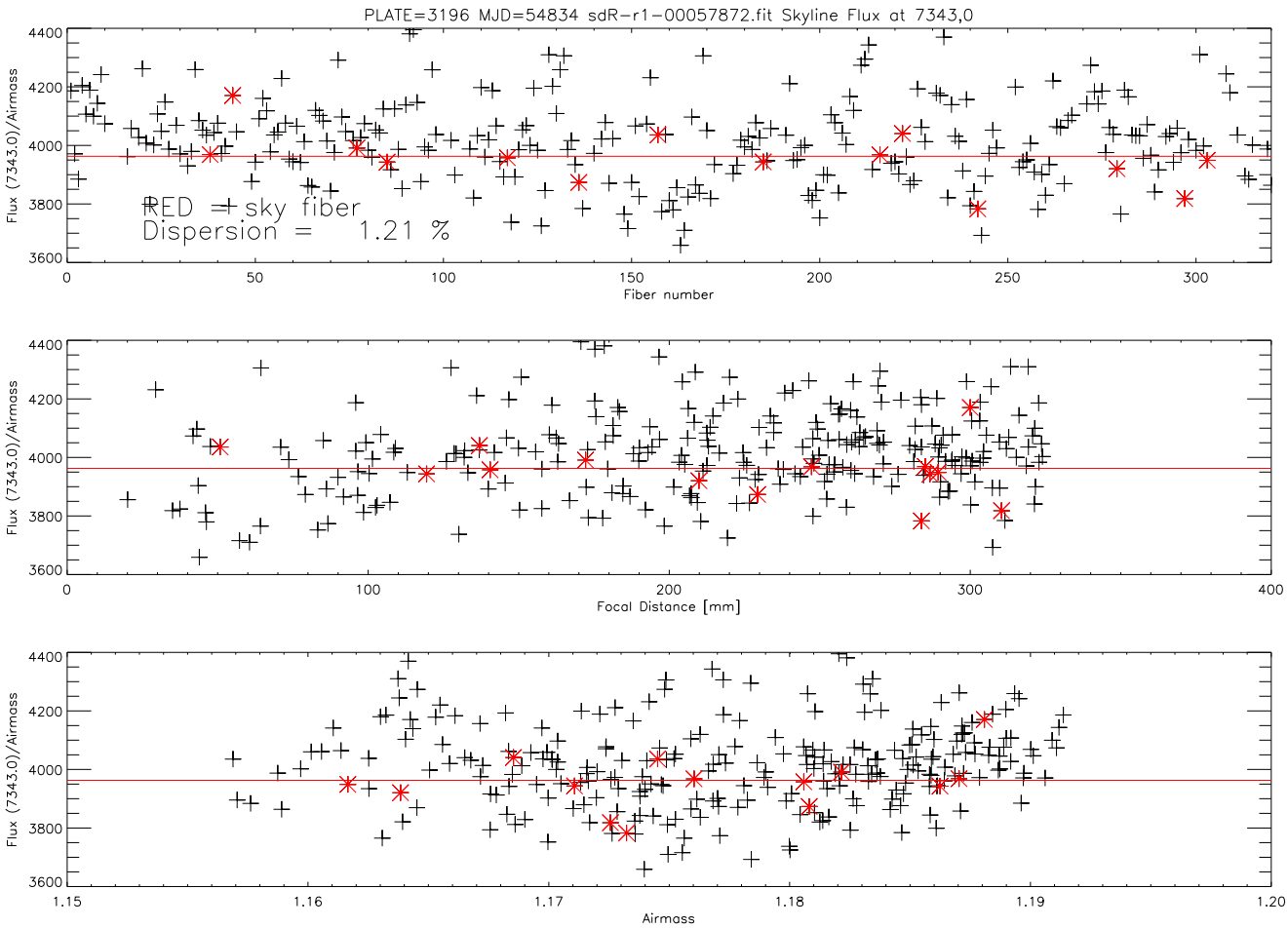

Number of sky fibers = 14
PLATE=3196 MJD=54834 sdR-r1-00057872.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

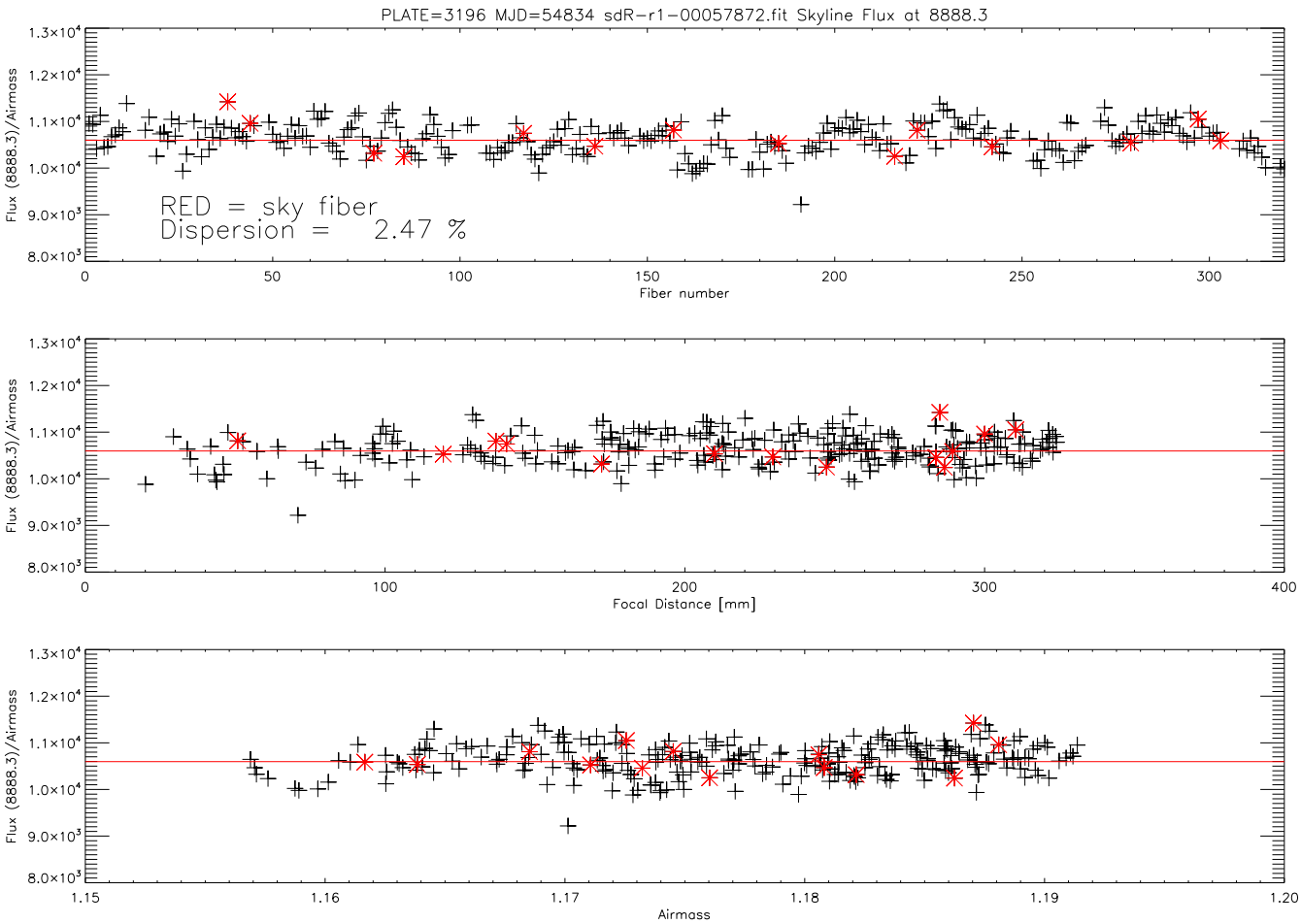

PLATE=3196 MJD=54834 sdR-r1-00057872.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

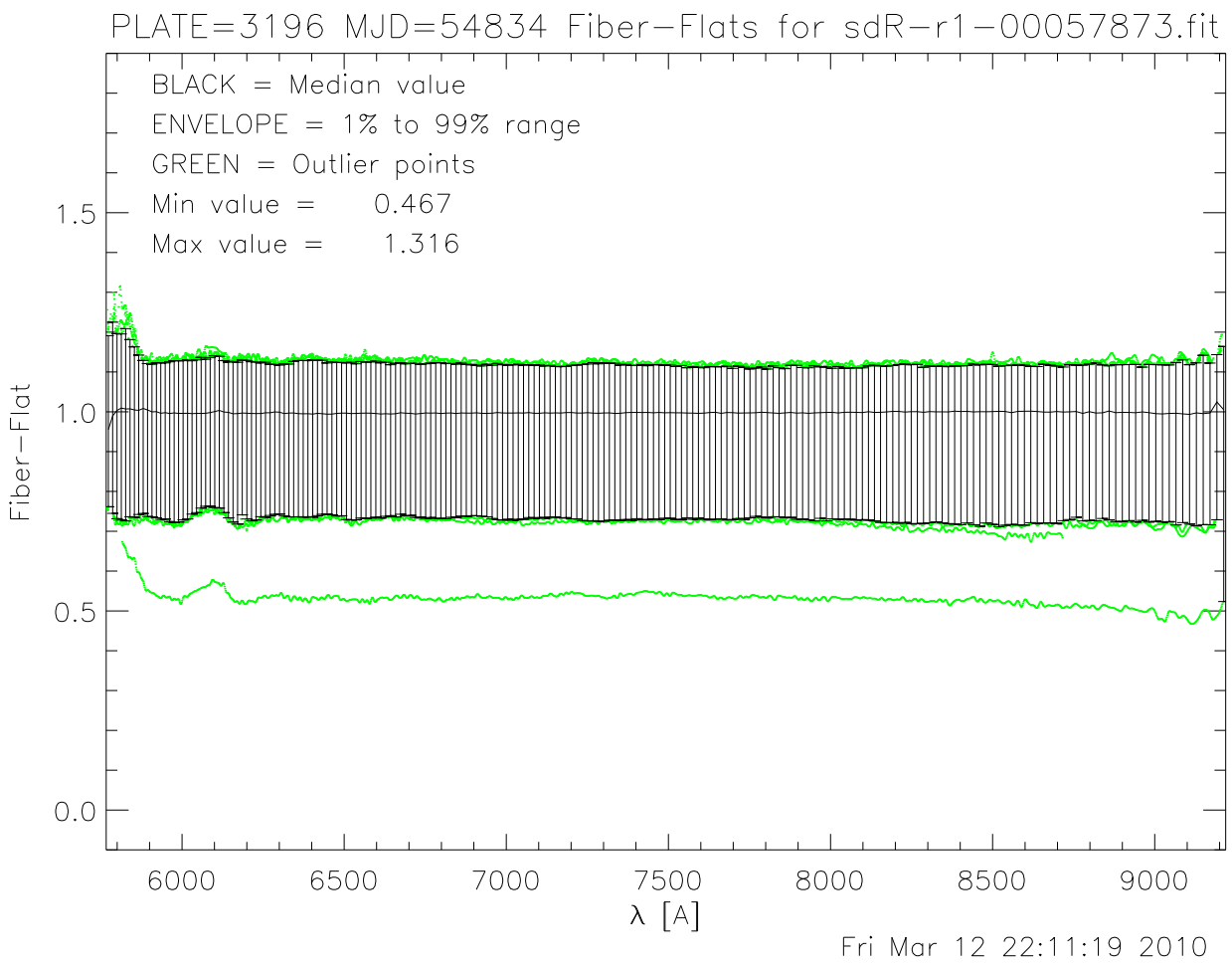

PLATE=3196 MJD=54834 sdR-r1-00057872.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

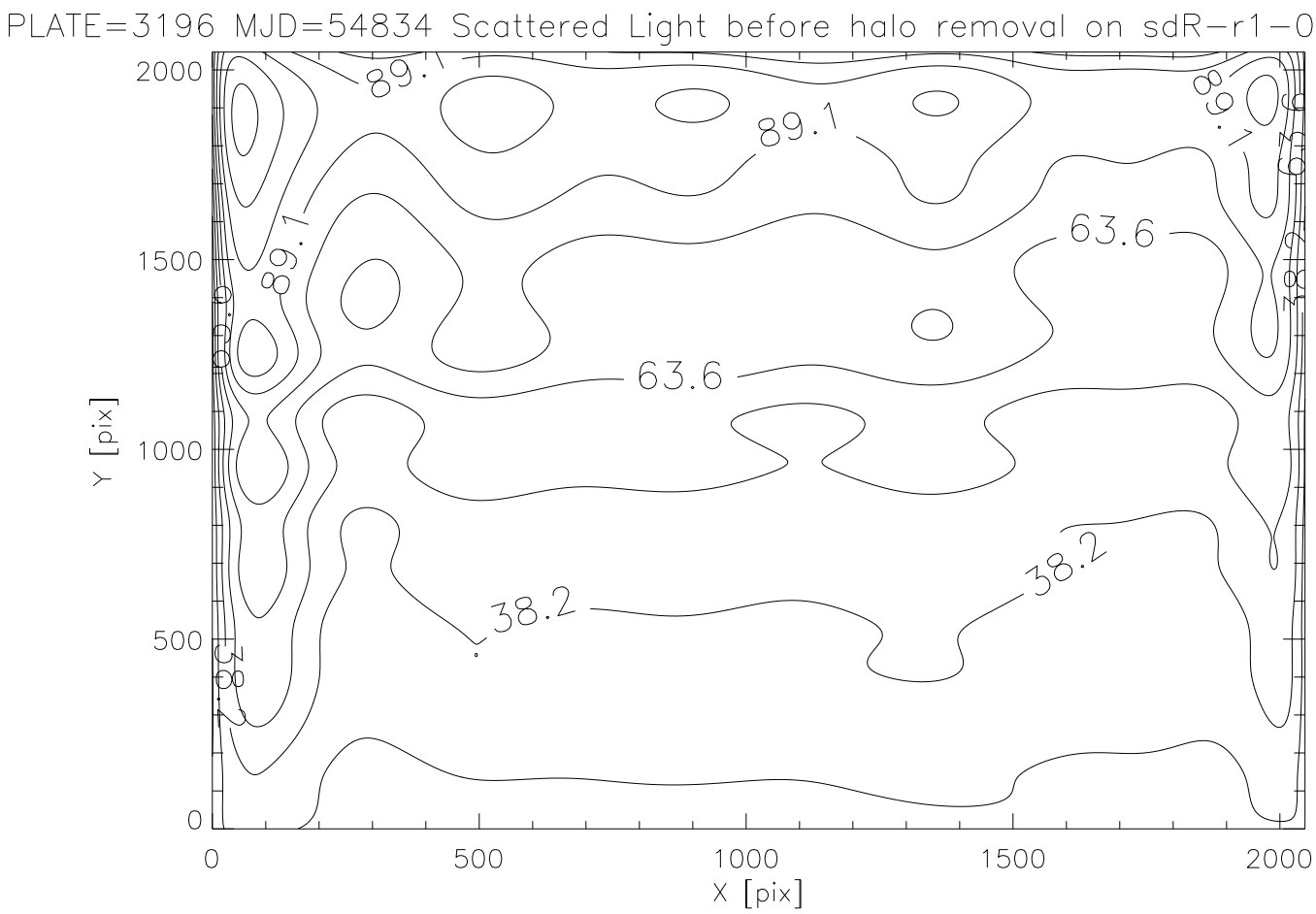

PLATE=3196 MJD=54834 sdR-r1-00057872.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
-600
8820
8840
8860
8880
8900
λ [A]

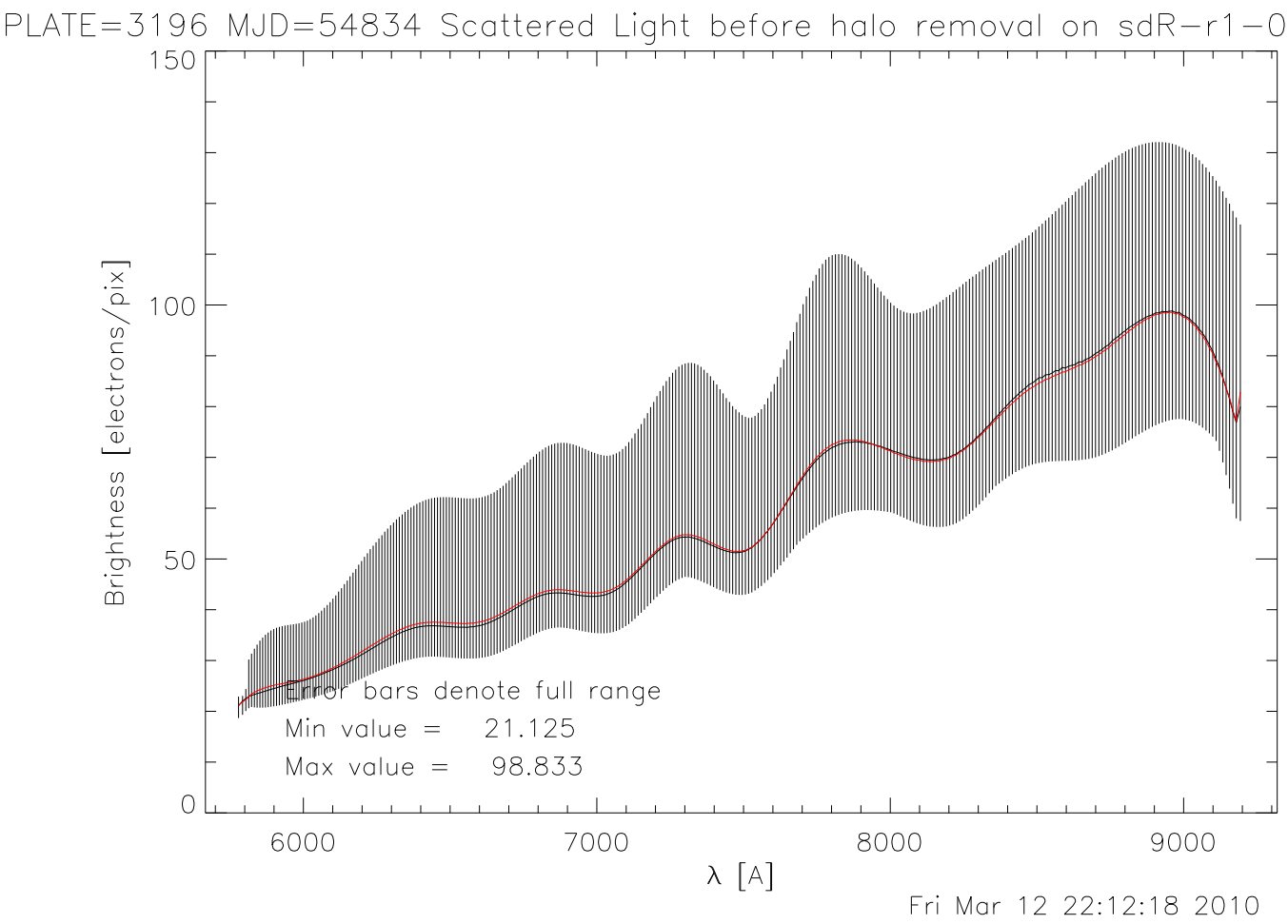

Number of sky fibers = 14
PLATE=3196 MJD=54834 sdR-r1-00057872.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

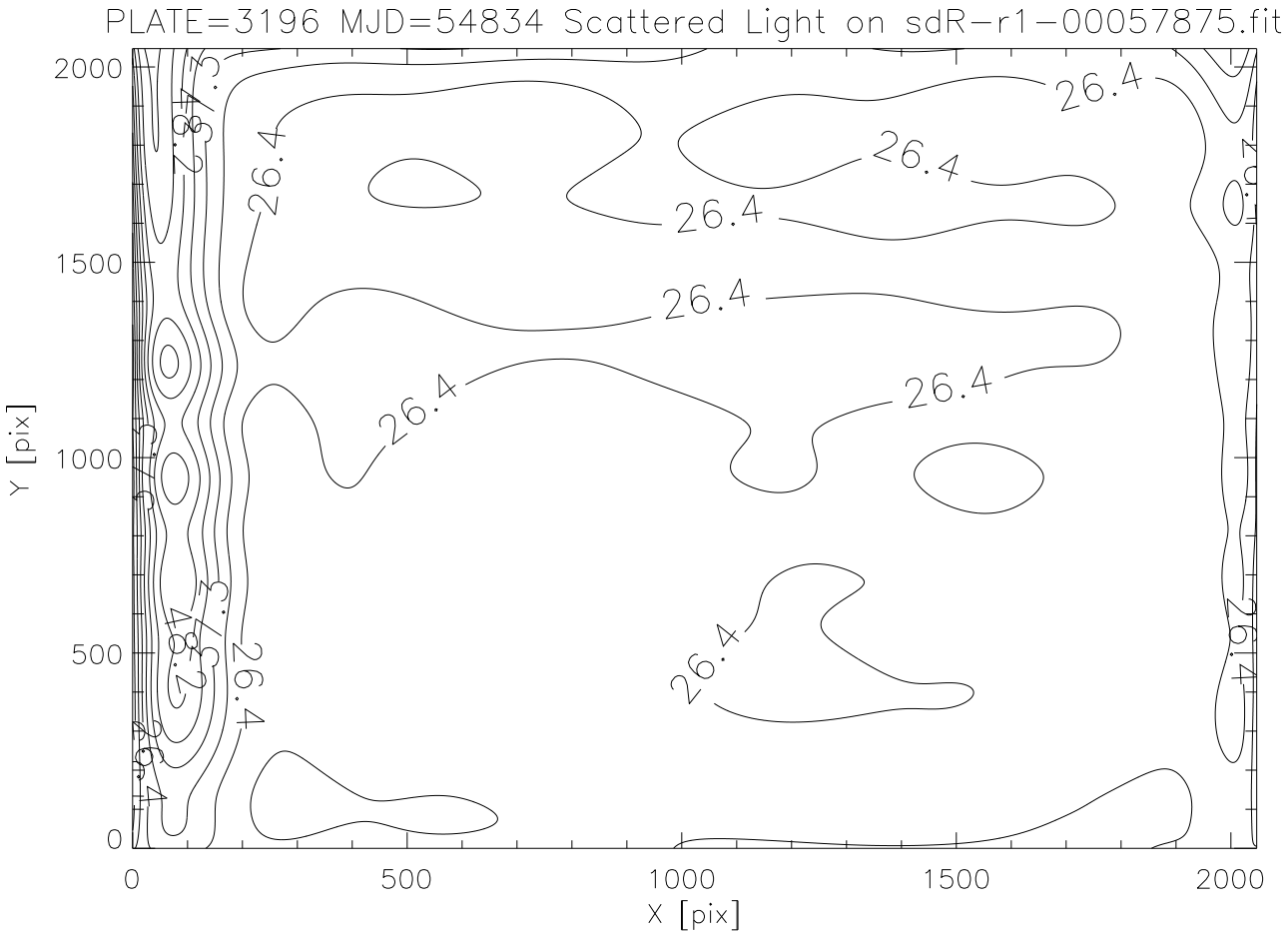

PLATE=3196 MJD=54834 sdR-r1-00057872.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.21 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

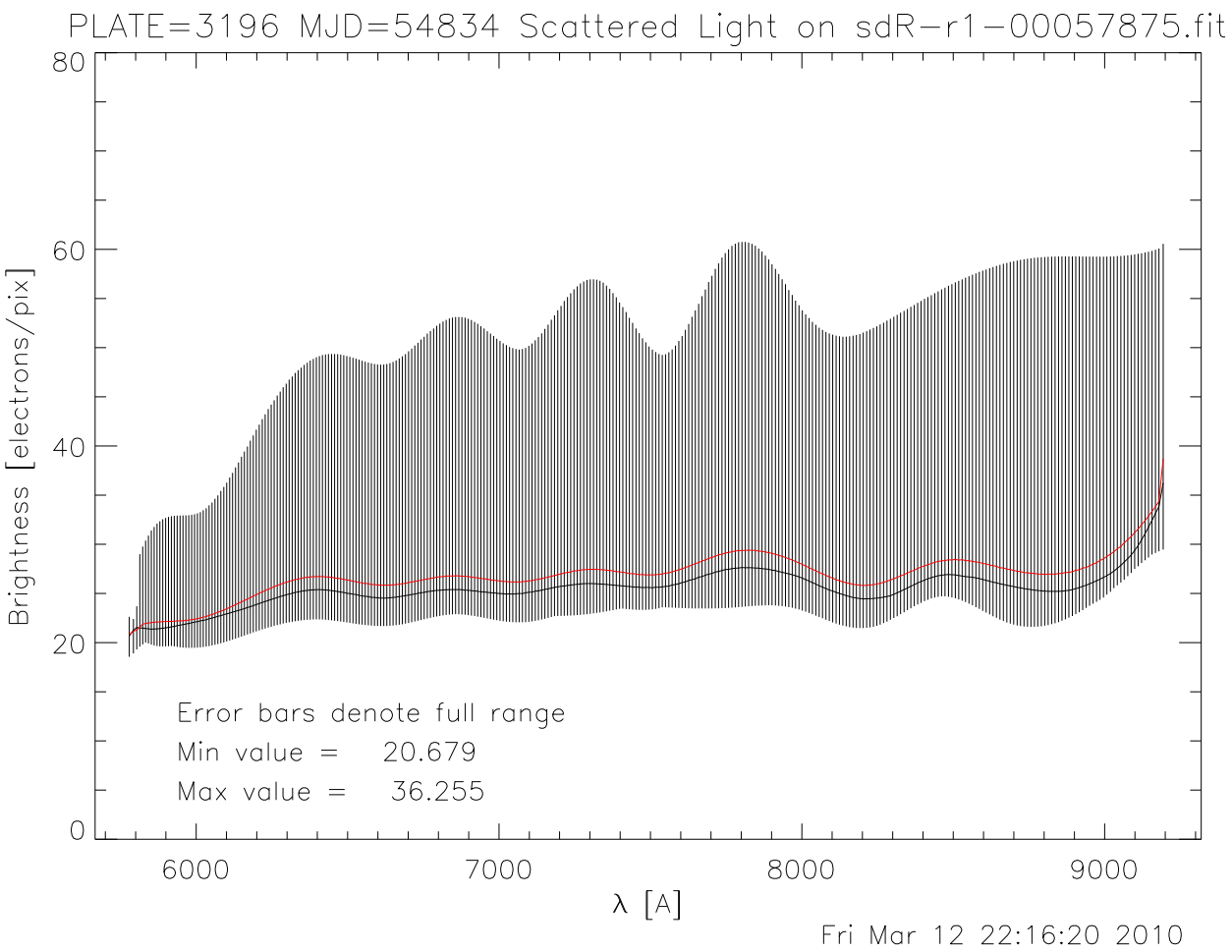

PLATE=3196 MJD=54834 sdR-r1-00057872.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.47 %
Fiber number
Focal Distance [mm]
Airmass

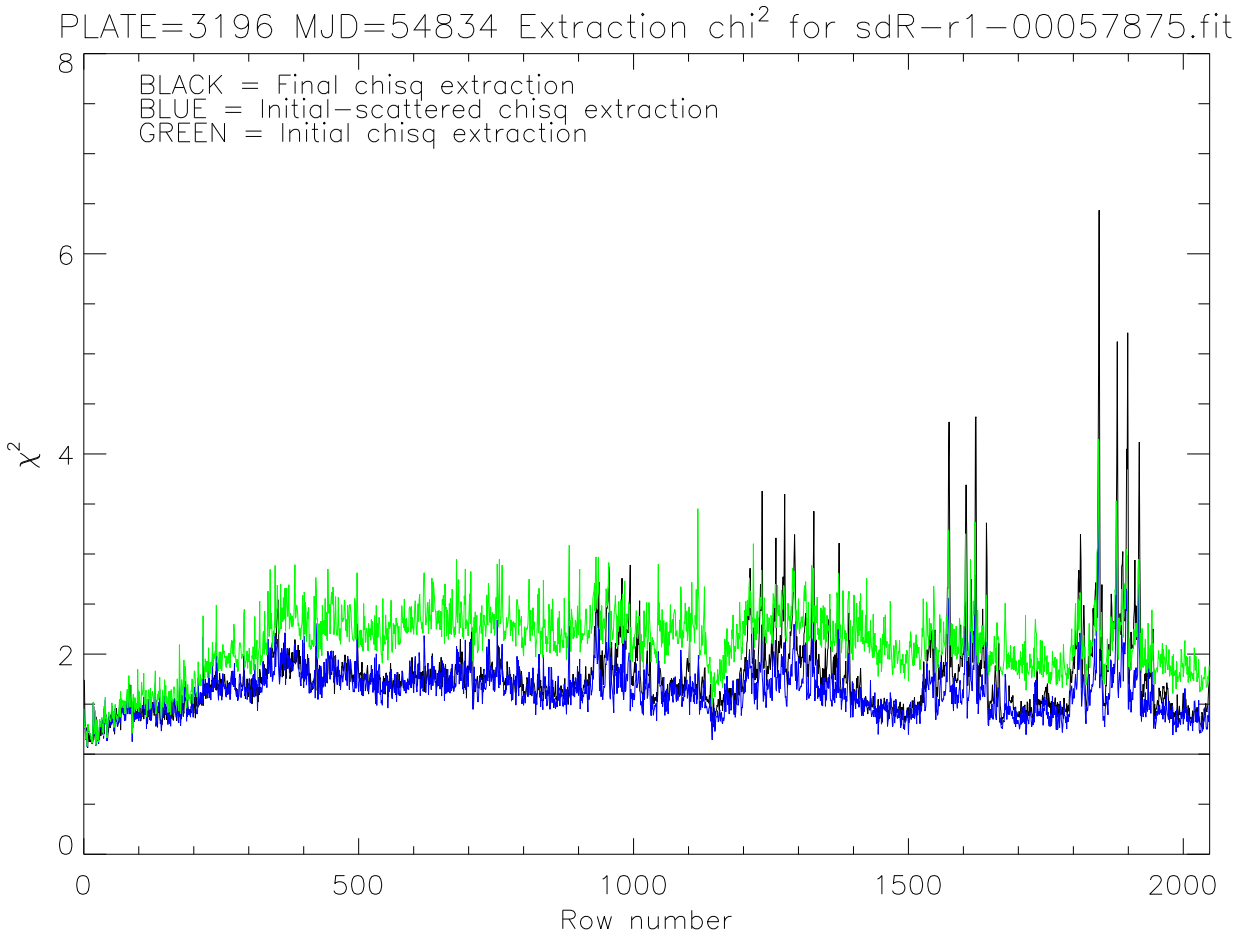

PLATE=3196 MJD=54834 Fiber−Flats for sdR−r1−00057873.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.467
Max value = 1.316
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Fri Mar 12 22:11:19 2010

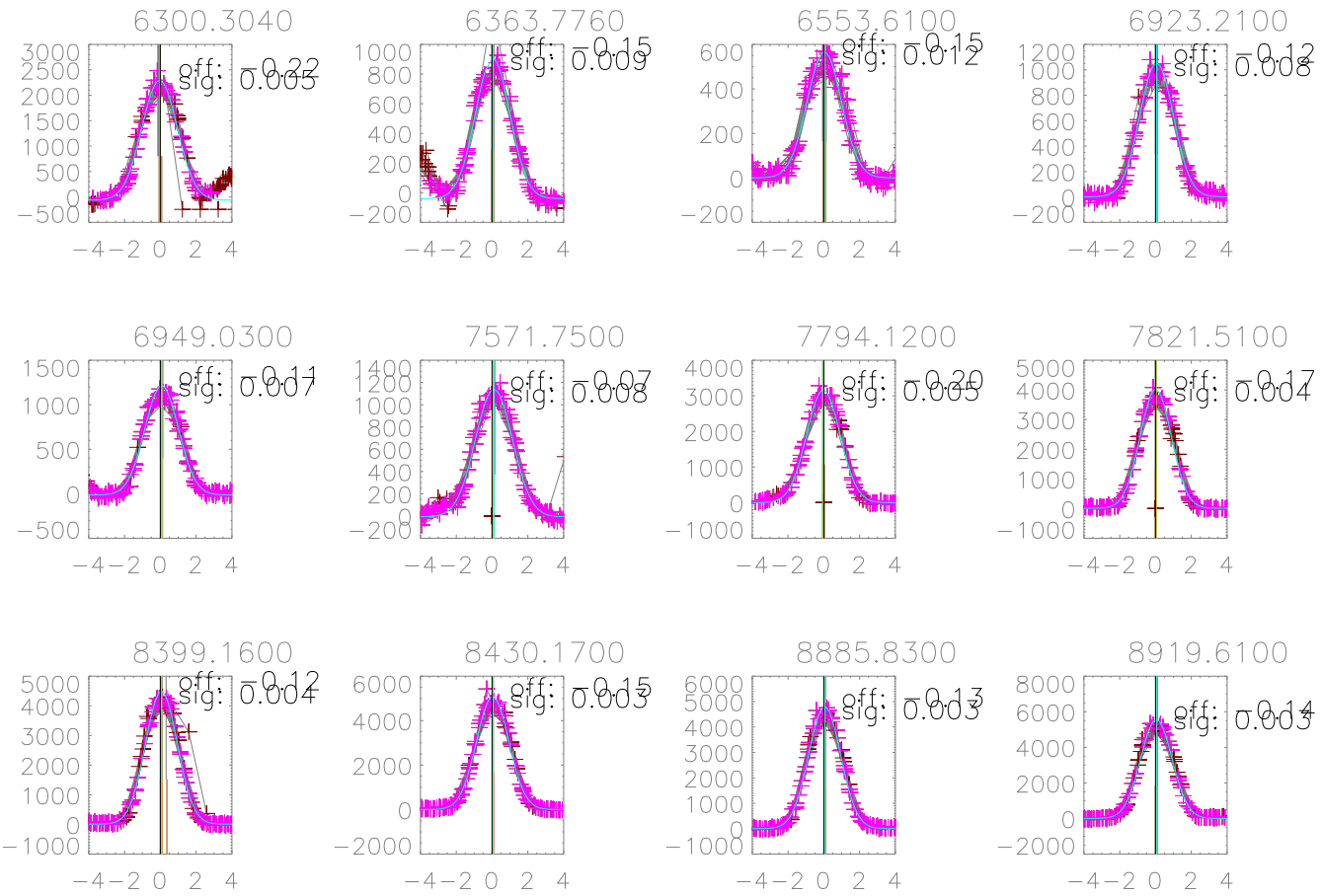

PLATE=3196 MJD=54834 Scattered Light before halo removal on sdR-r1-00057875.fi
89.1
89.1
89.1
63.6
63.6
38.2
38.2
38.2
Y [pix]
X [pix]
0
500
1000
1500
2000

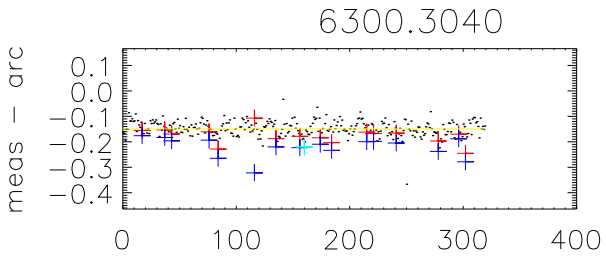

PLATE=3196 MJD=54834 Scattered Light before halo removal on sdR-r1-00057875.fi
150
100
50
0
Brightness [electrons/pix]
Error bars denote full range
Min value = 21.125
Max value = 98.833
6000
7000
8000
9000
λ [A]
Fri Mar 12 22:12:18 2010

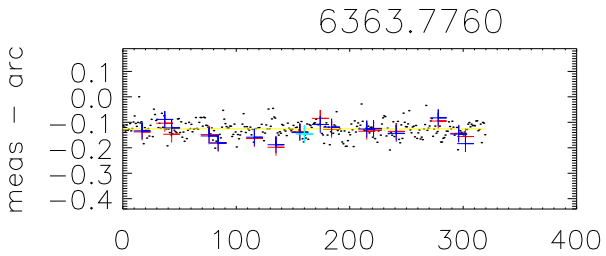

PLATE=3196 MJD=54834 Scattered Light on sdR−r1−00057875.fit
26.4
26.4
26.4

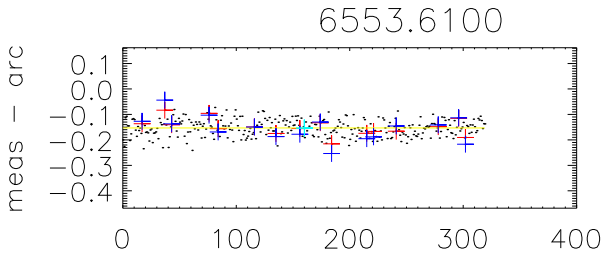

PLATE=3196 MJD=54834 Scattered Light on sdR-r1-00057875.fit
Brightness [electrons/pix]
80
60
40
20
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 20.679
Max value = 36.255
Fri Mar 12 22:16:20 2010

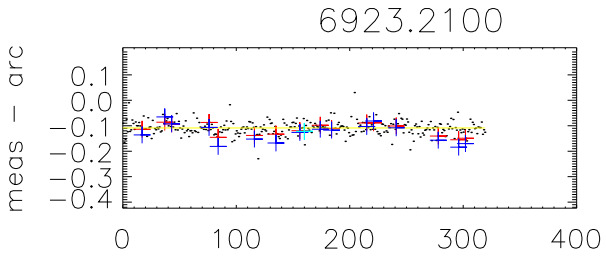

PLATE=3196 MJD=54834 Extraction chi^2 for sdR-r1-00057875.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

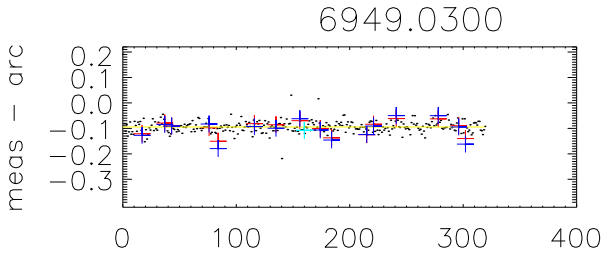

6300.3040
off: −0.22
sig: 0.005
6363.7760
off: −0.15
sig: 0.009
6553.6100
off: −0.15
sig: 0.012
6923.2100
off: −0.12
sig: 0.008
6949.0300
off: −0.11
sig: 0.007
7571.7500
off: −0.07
sig: 0.008
7794.1200
off: −0.20
sig: 0.005
7821.5100
off: −0.17
sig: 0.004
8399.1600
off: −0.12
sig: 0.004
8430.1700
off: −0.15
sig: 0.003
8885.8300
off: −0.13
sig: 0.003
8919.6100
off: −0.14
sig: 0.003

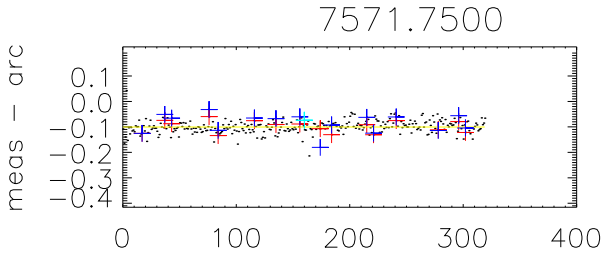

6300.3040
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

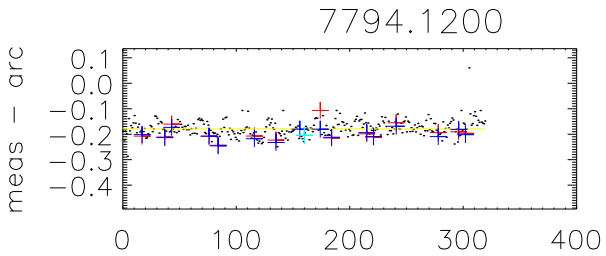

6363.7760
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

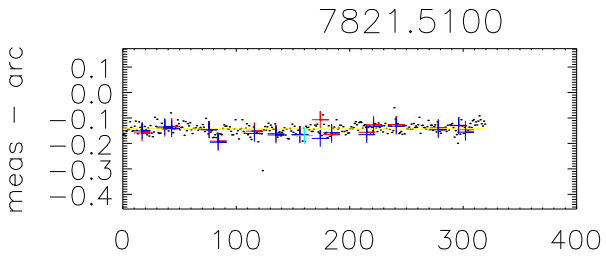

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

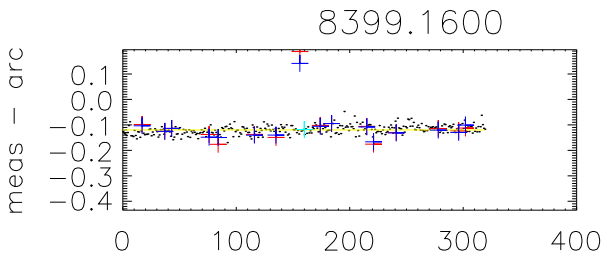

6923.2100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

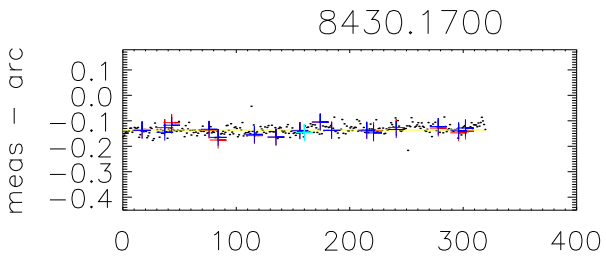

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

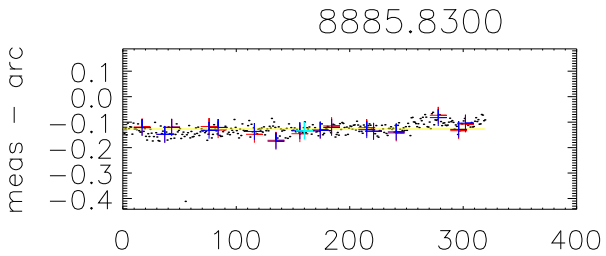

7571.7500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

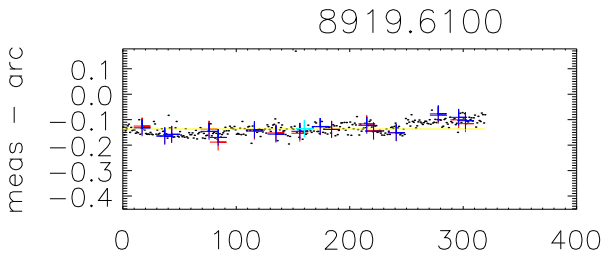

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

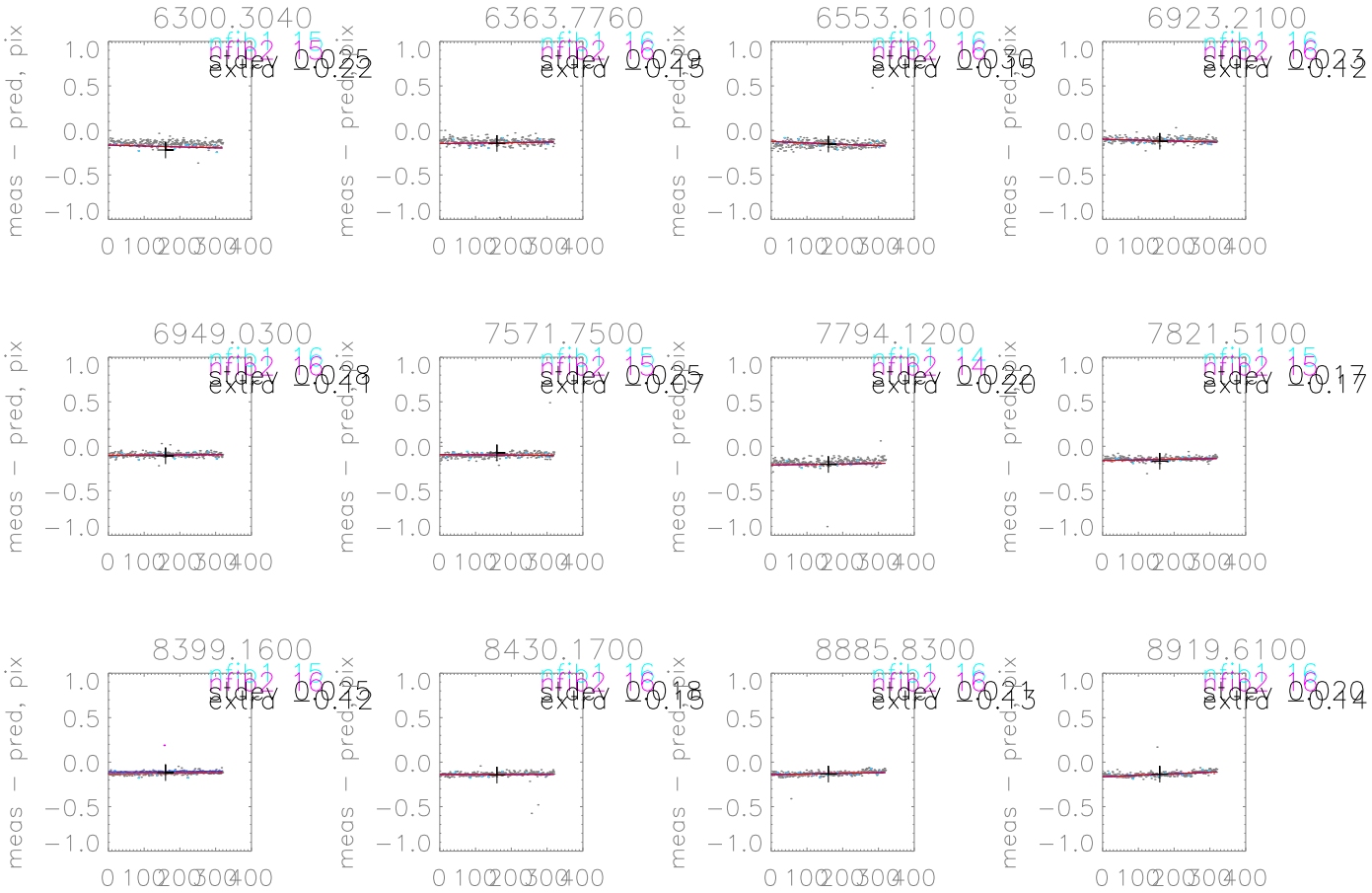

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

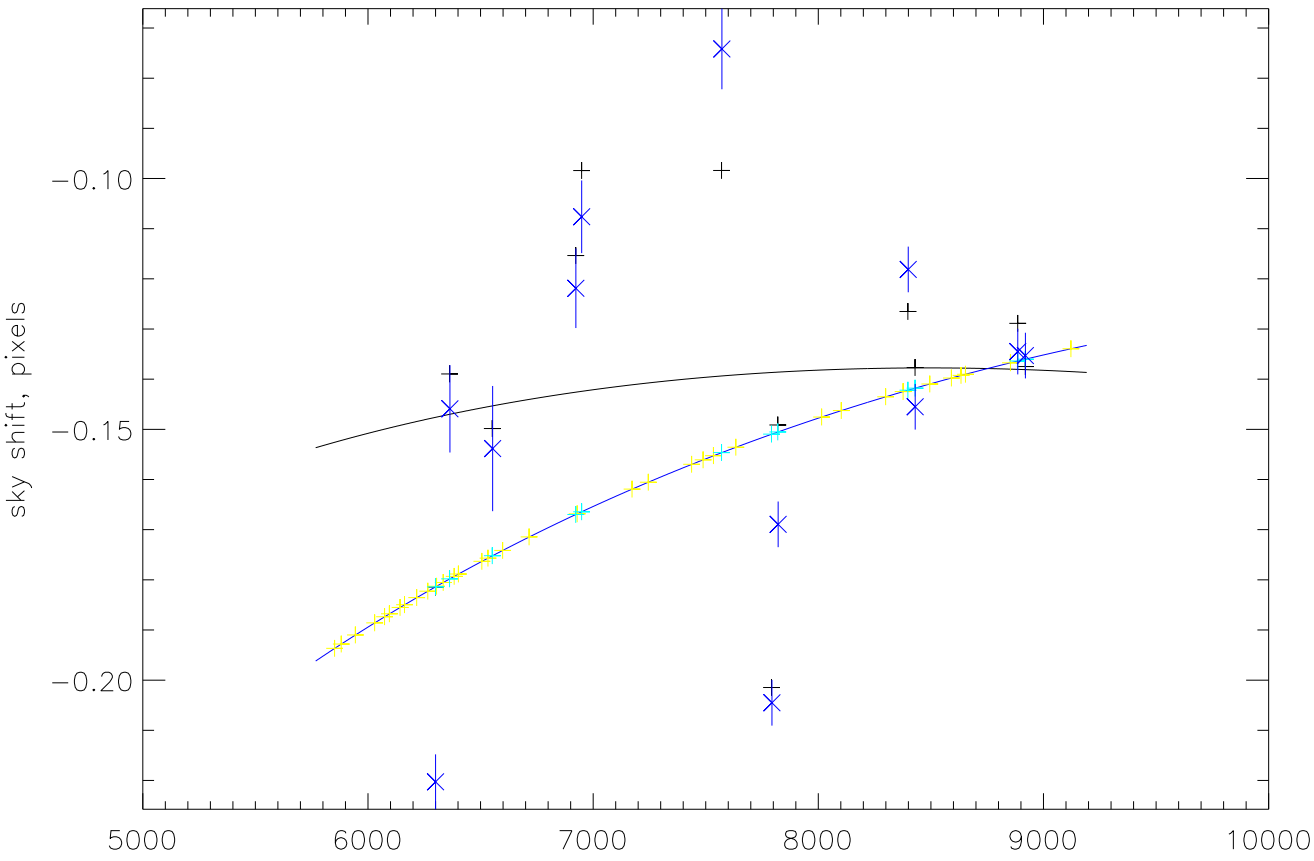

8399.1600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


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

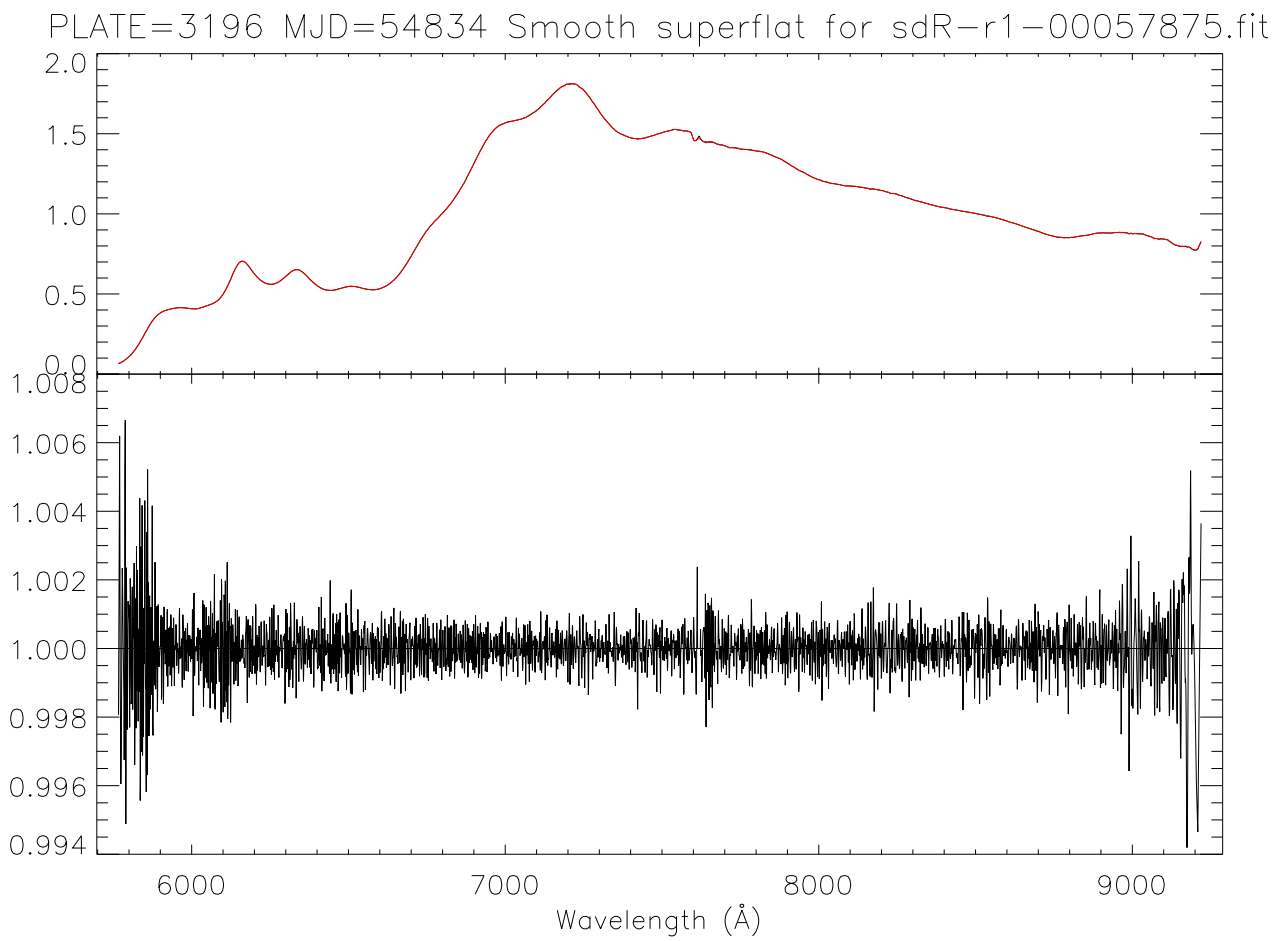

8885.8300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

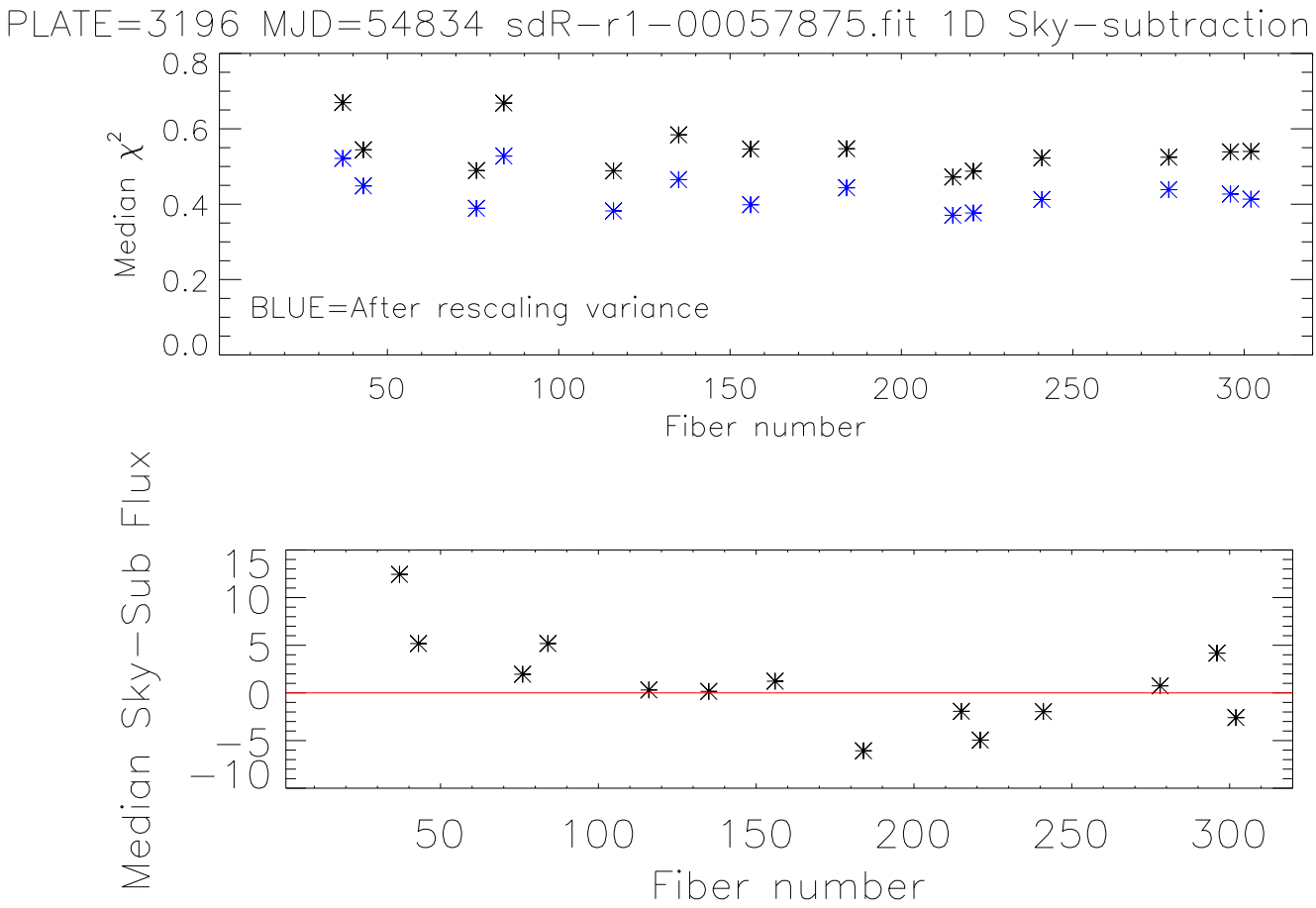

8919.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

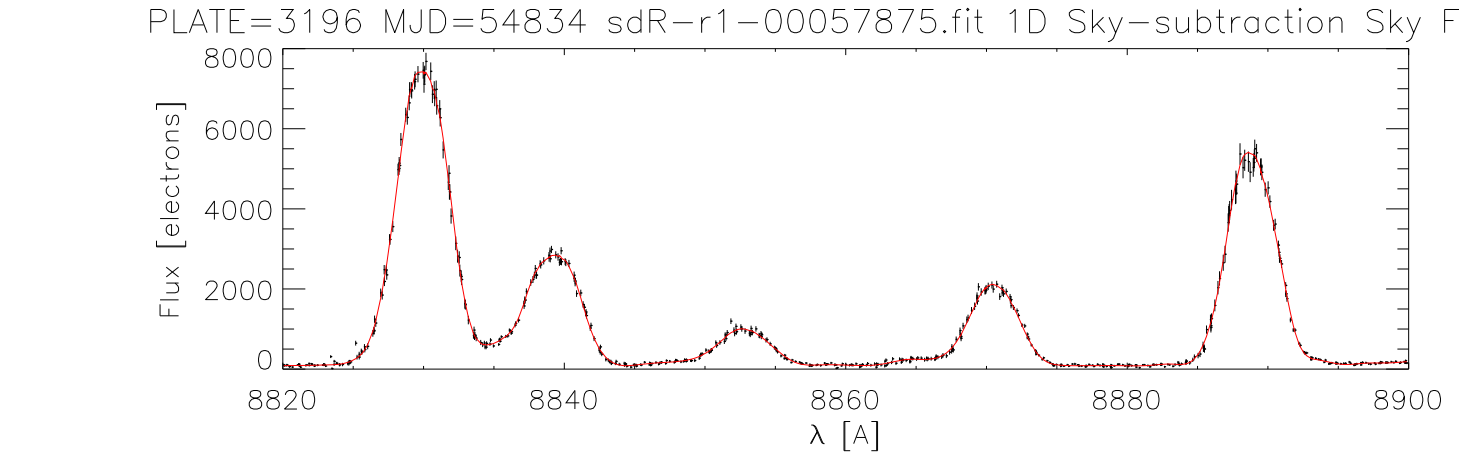

6300.3040
mfib1 15
mfib2 15
stdev 0.025
extra 0.22
6363.7760
mfib1 16
mfib2 16
stdev 0.029
extra 0.45
6553.6100
mfib1 16
mfib2 16
stdev 0.030
extra 0.15
6923.2100
mfib1 16
mfib2 16
stdev 0.023
extra 0.42
6949.0300
mfib1 16
mfib2 16
stdev 0.028
extra 0.49
7571.7500
mfib1 15
mfib2 15
stdev 0.025
extra 0.07
7794.1200
mfib1 14
mfib2 14
stdev 0.022
extra 0.20
7821.5100
mfib1 15
mfib2 15
stdev 0.017
extra 0.17
8399.1600
mfib1 15
mfib2 16
stdev 0.025
extra 0.42
8430.1700
mfib1 16
mfib2 16
stdev 0.018
extra 0.15
8885.8300
mfib1 16
mfib2 16
stdev 0.021
extra 0.43
8919.6100
mfib1 16
mfib2 16
stdev 0.020
extra 0.44
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

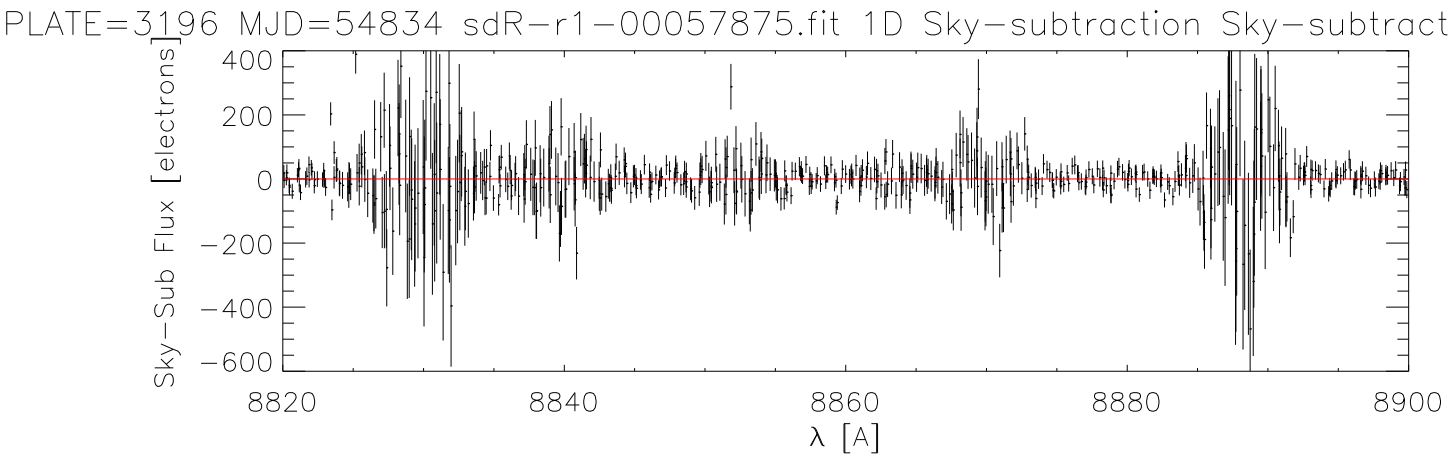

sky shift, pixels
−0.10
−0.15
−0.20
5000
6000
7000
8000
9000
10000

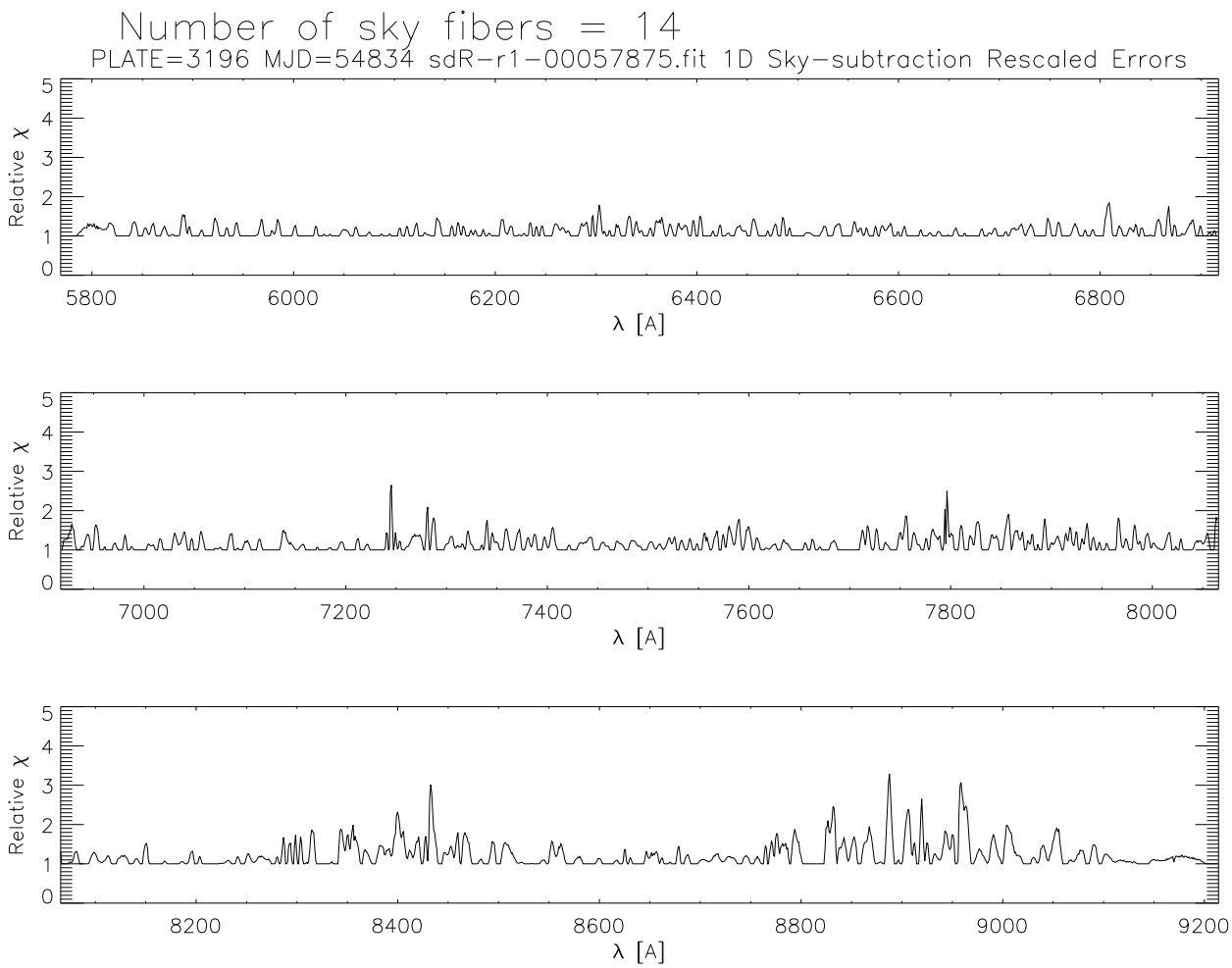
es= 0.0000

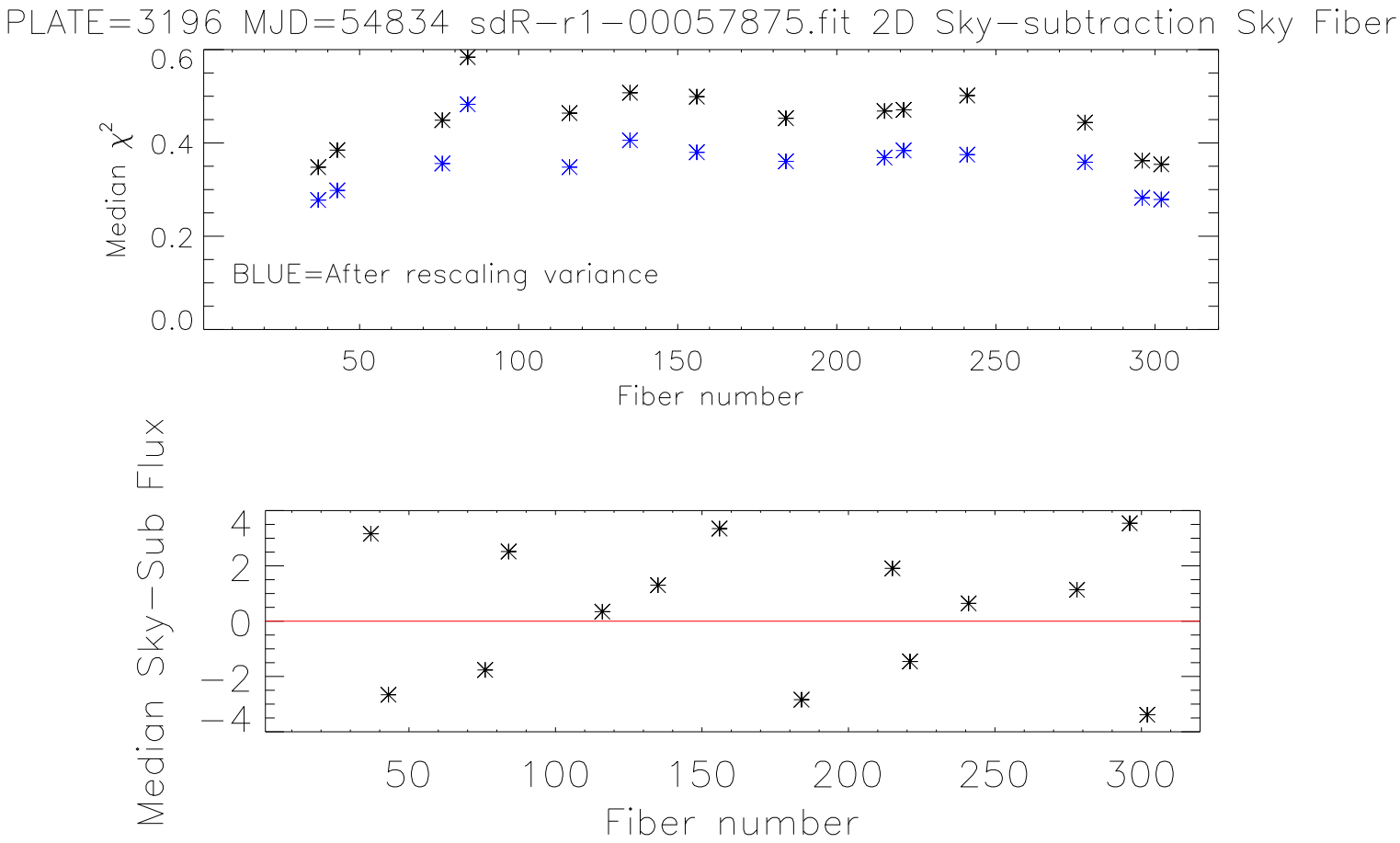

PLATE=3196 MJD=54834 Smooth superflat for sdR-r1-00057875.fit
2.0
1.5
1.0
0.5
0.0
1.008
1.006
1.004
1.002
1.000
0.998
0.996
0.994
6000
7000
8000
9000
Wavelength (Å)

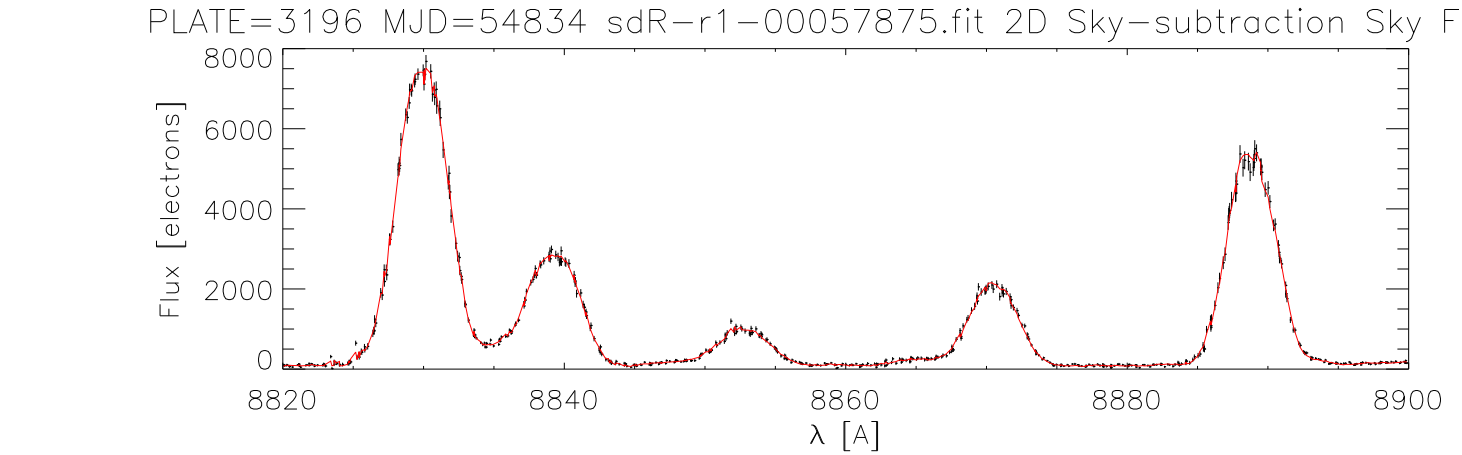

PLATE=3196 MJD=54834 sdR-r1-00057875.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
15
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

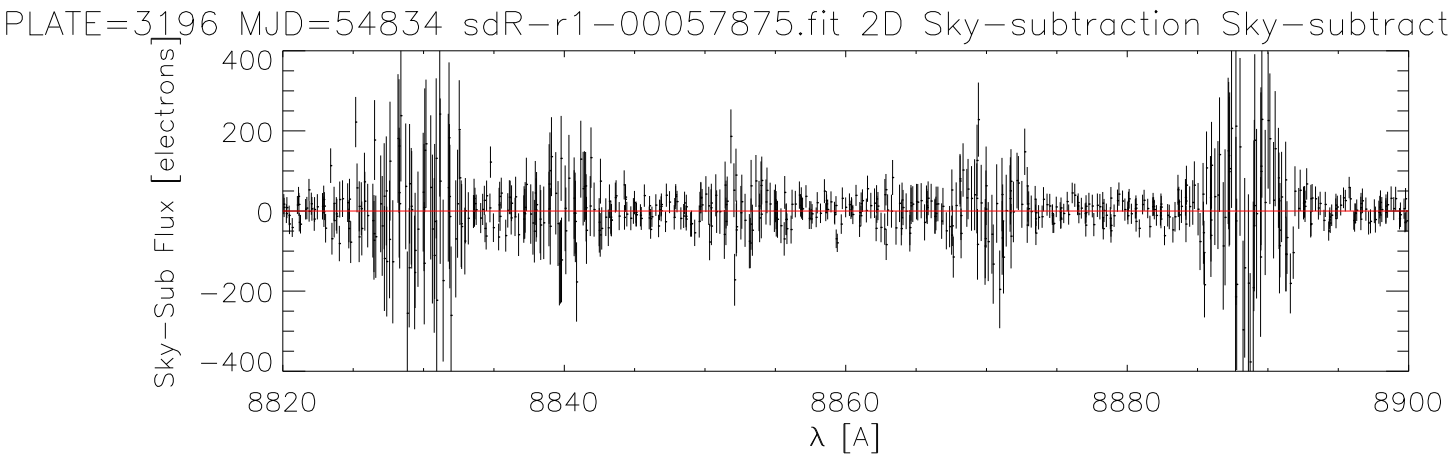

PLATE=3196 MJD=54834 sdR-r1-00057875.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

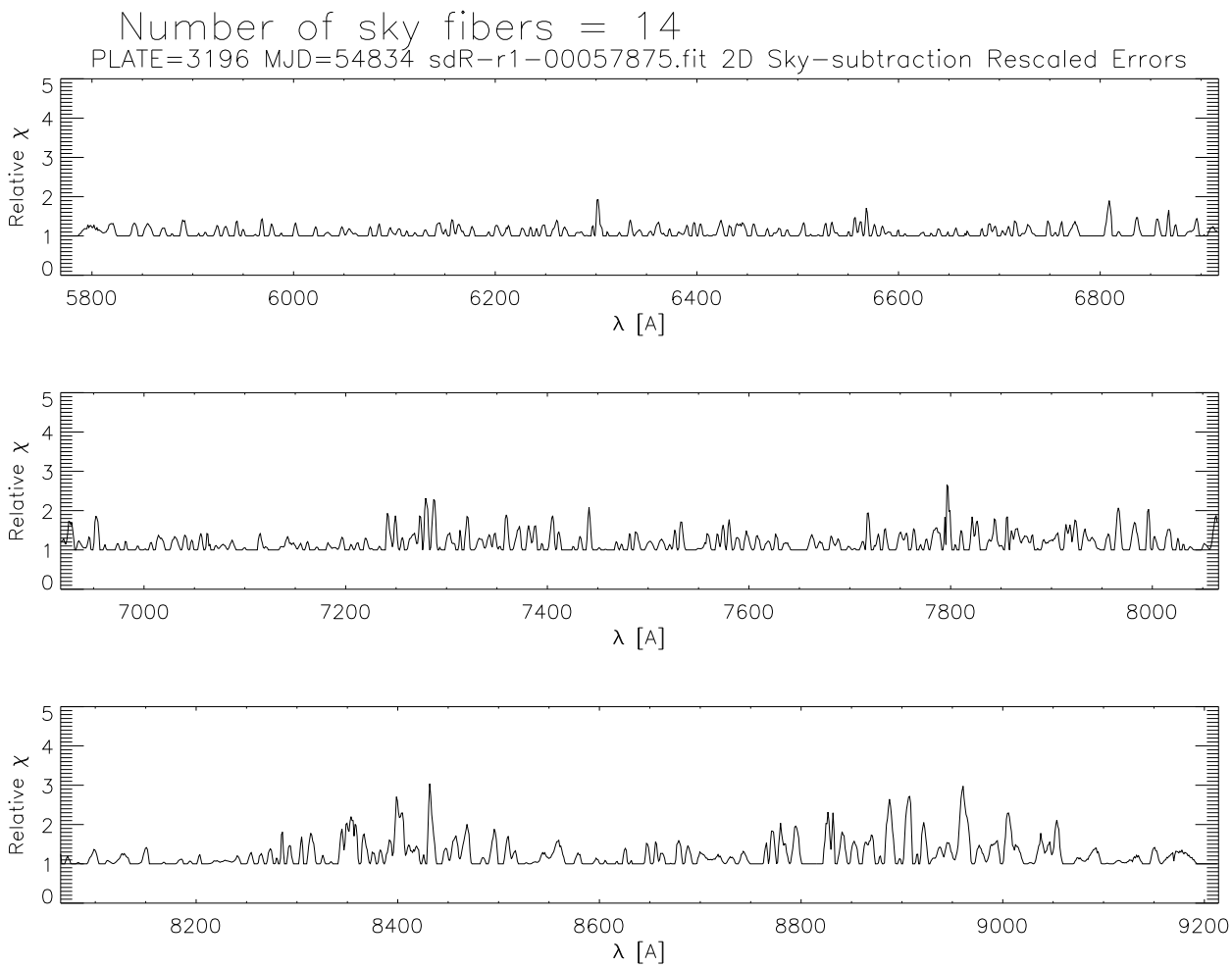

PLATE=3196 MJD=54834 sdR-r1-00057875.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
-600
8820
8840
8860
8880
8900
λ [A]

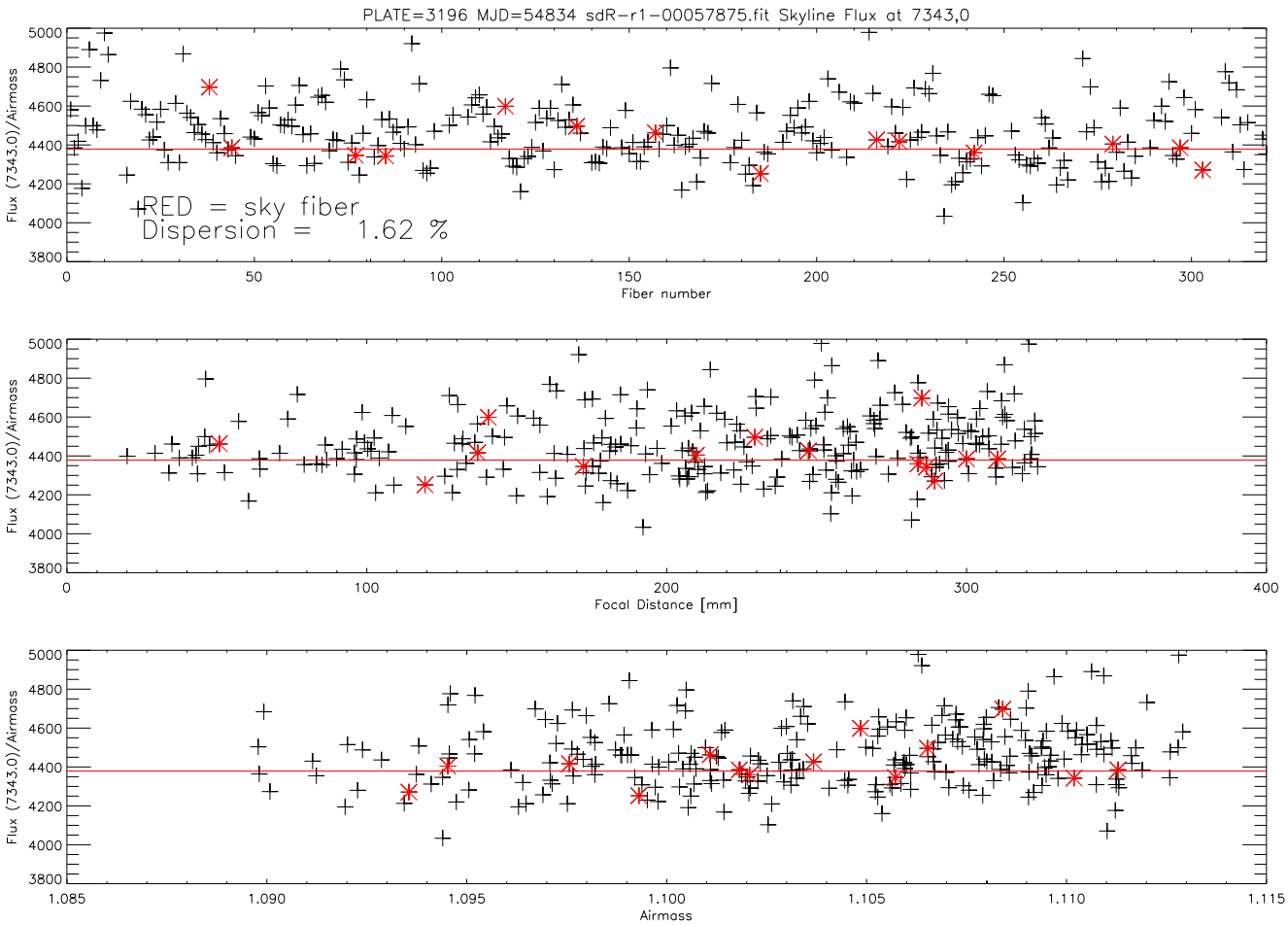

Number of sky fibers = 14
PLATE=3196 MJD=54834 sdR-r1-00057875.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

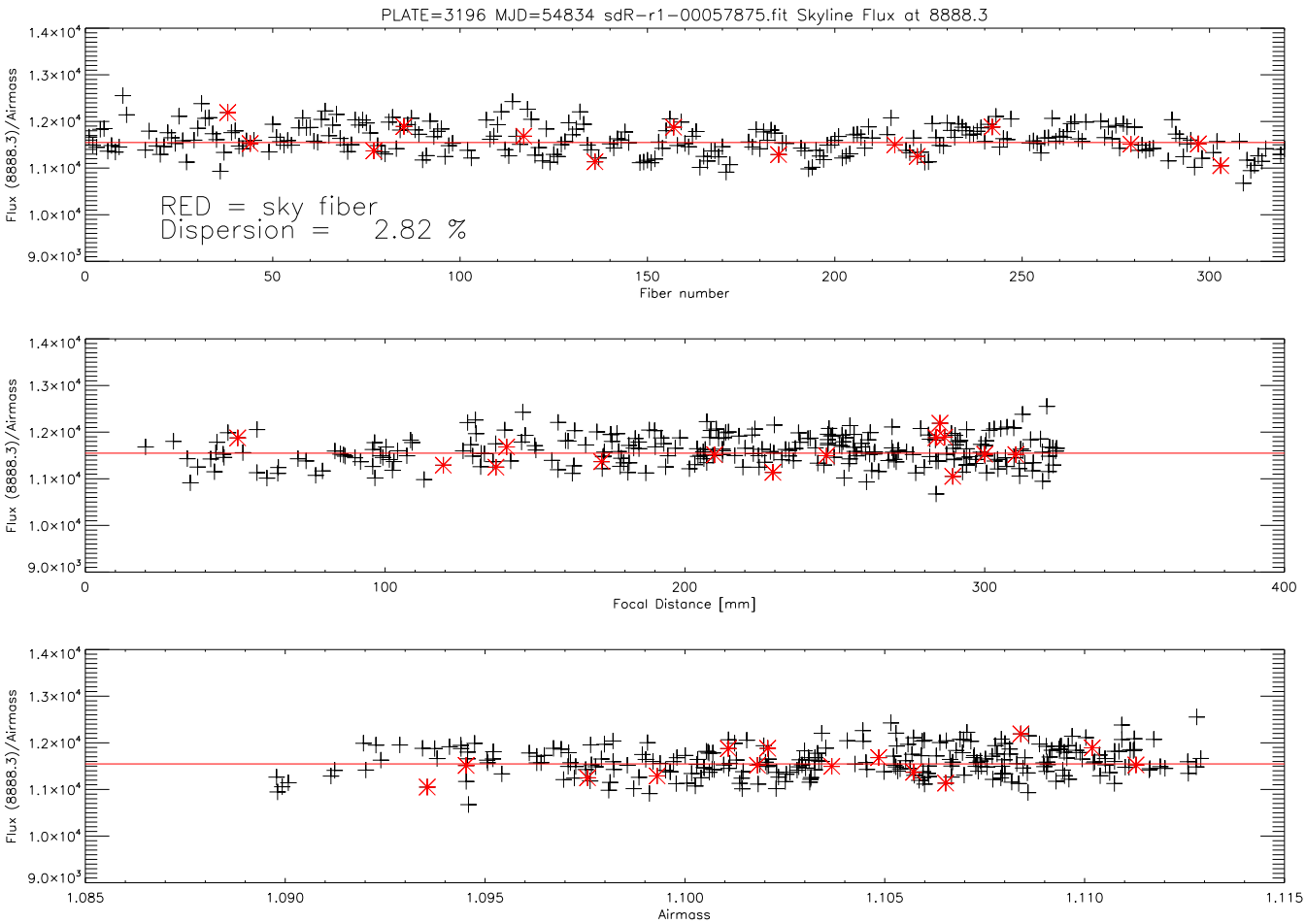

PLATE=3196 MJD=54834 sdR-r1-00057875.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
50
100
150
200
250
300
Fiber number

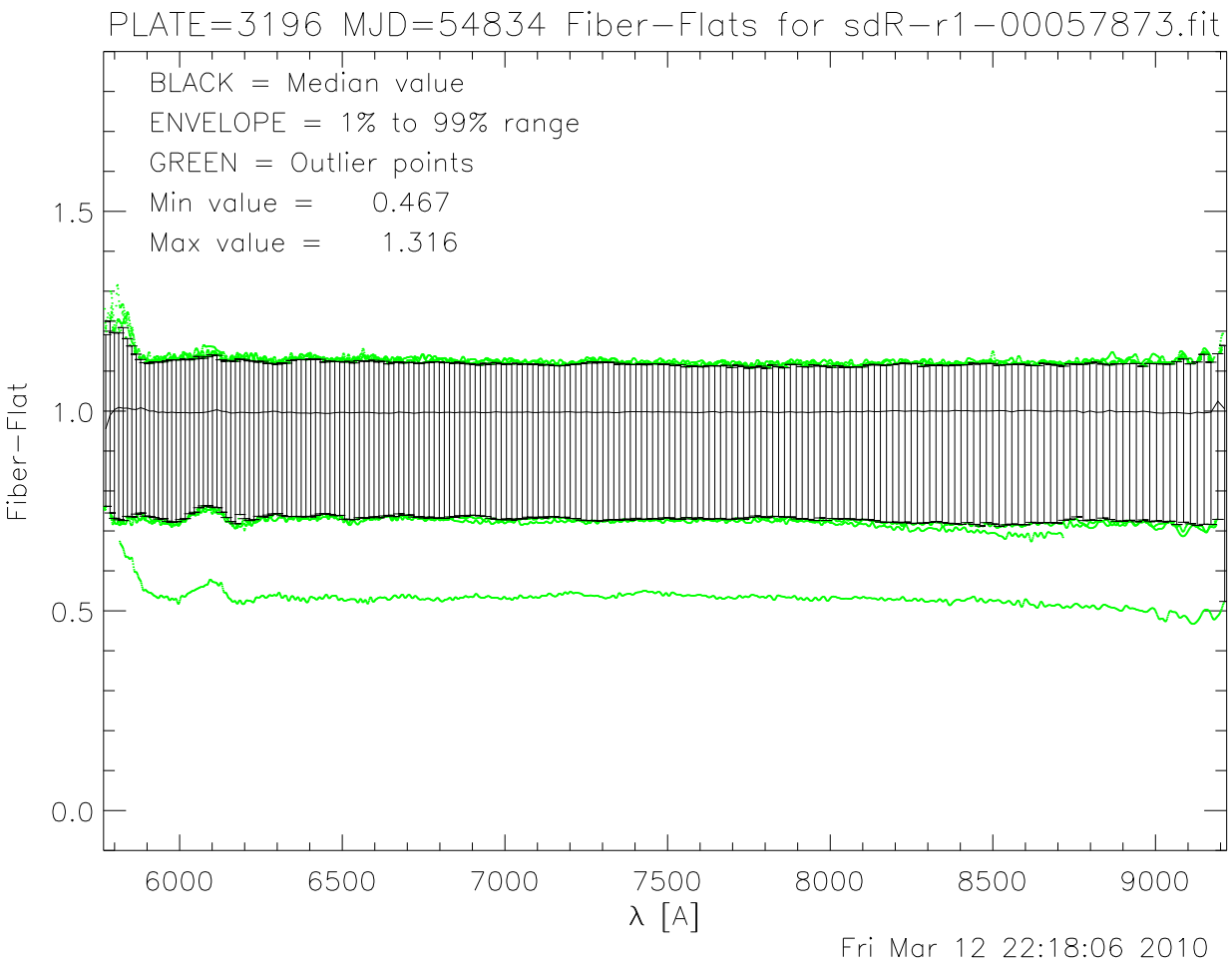

PLATE=3196 MJD=54834 sdR-r1-00057875.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

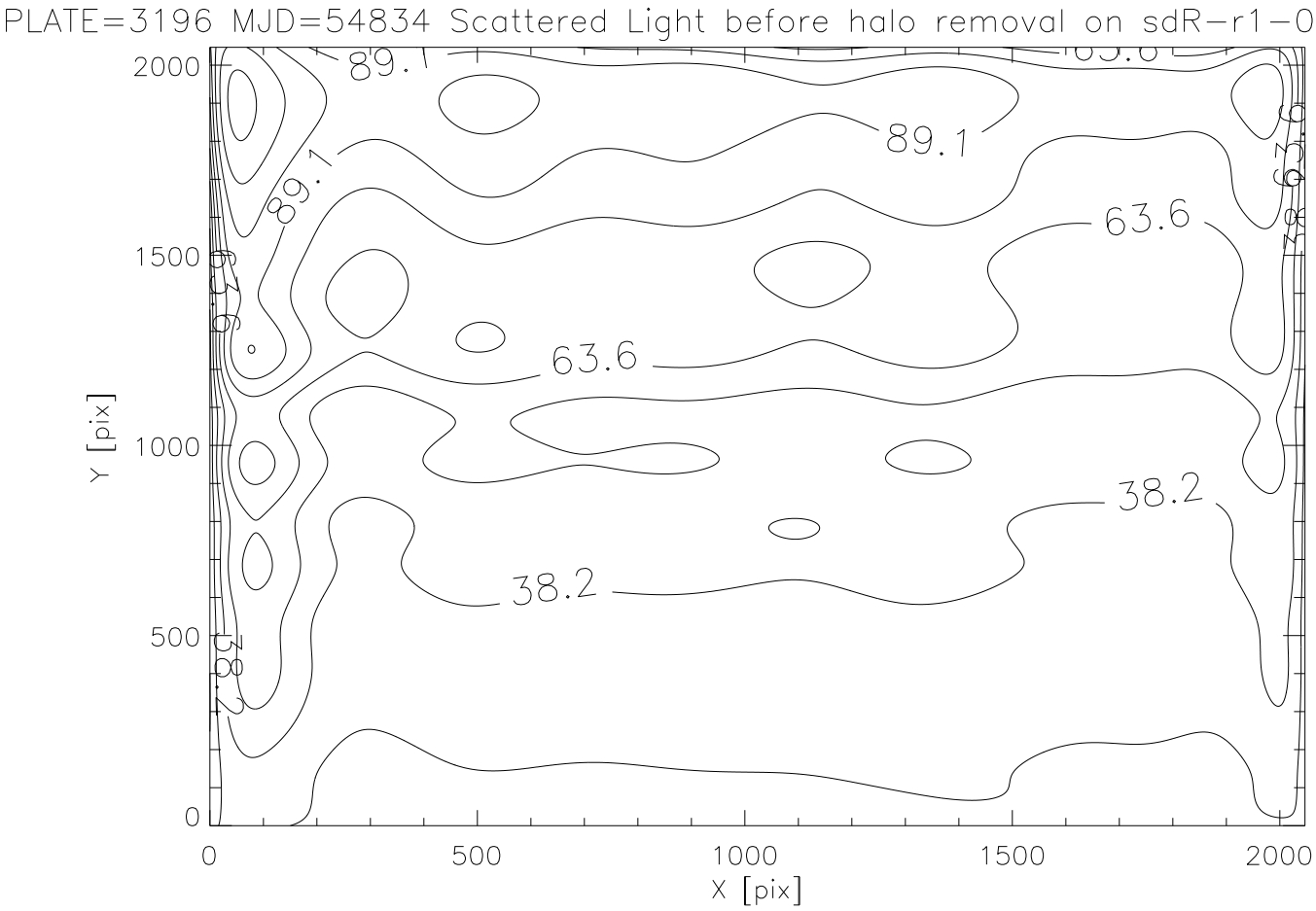

PLATE=3196 MJD=54834 sdR-r1-00057875.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
−200
−400
8820
8840
8860
8880
8900
λ [A]

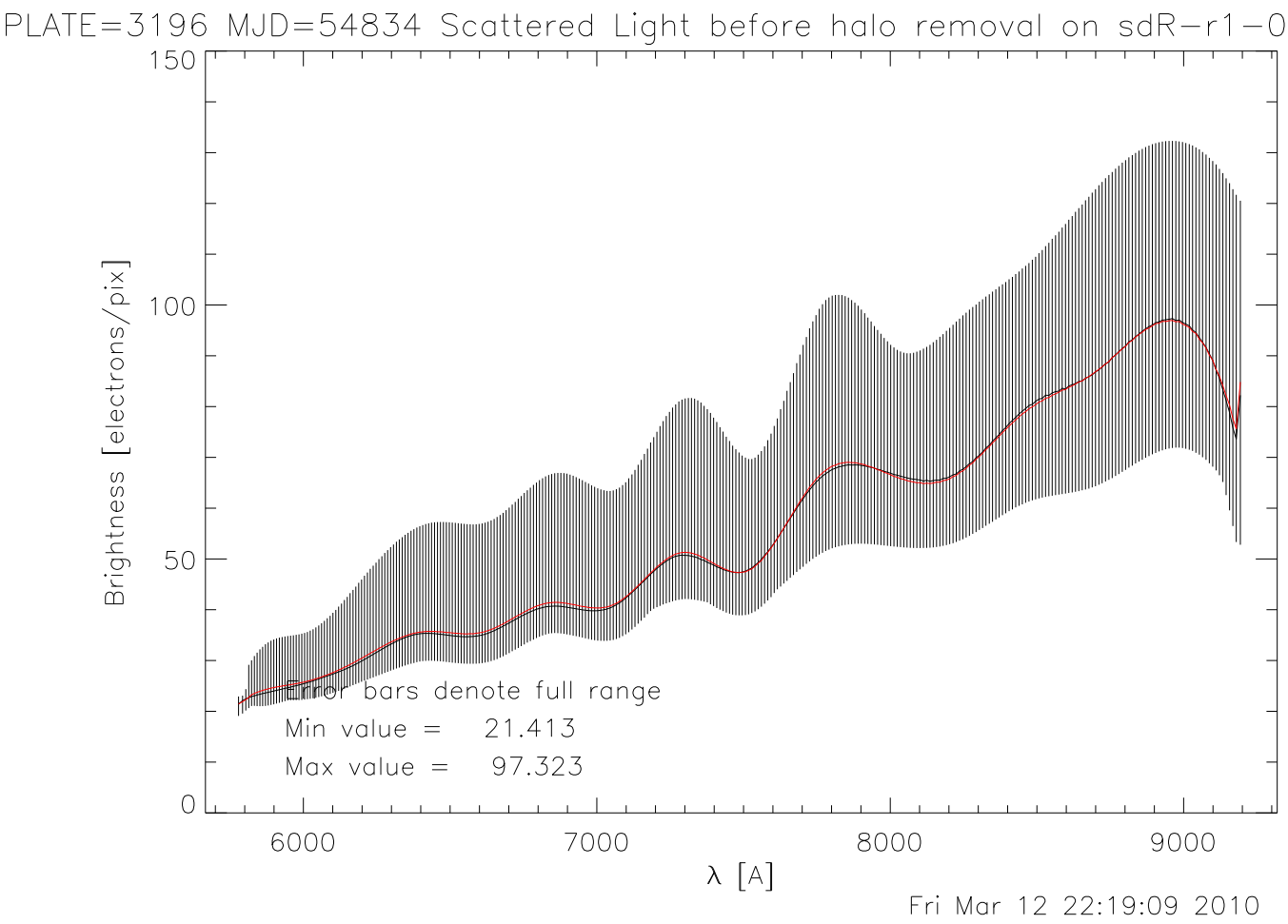

Number of sky fibers = 14
PLATE=3196 MJD=54834 sdR-r1-00057875.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

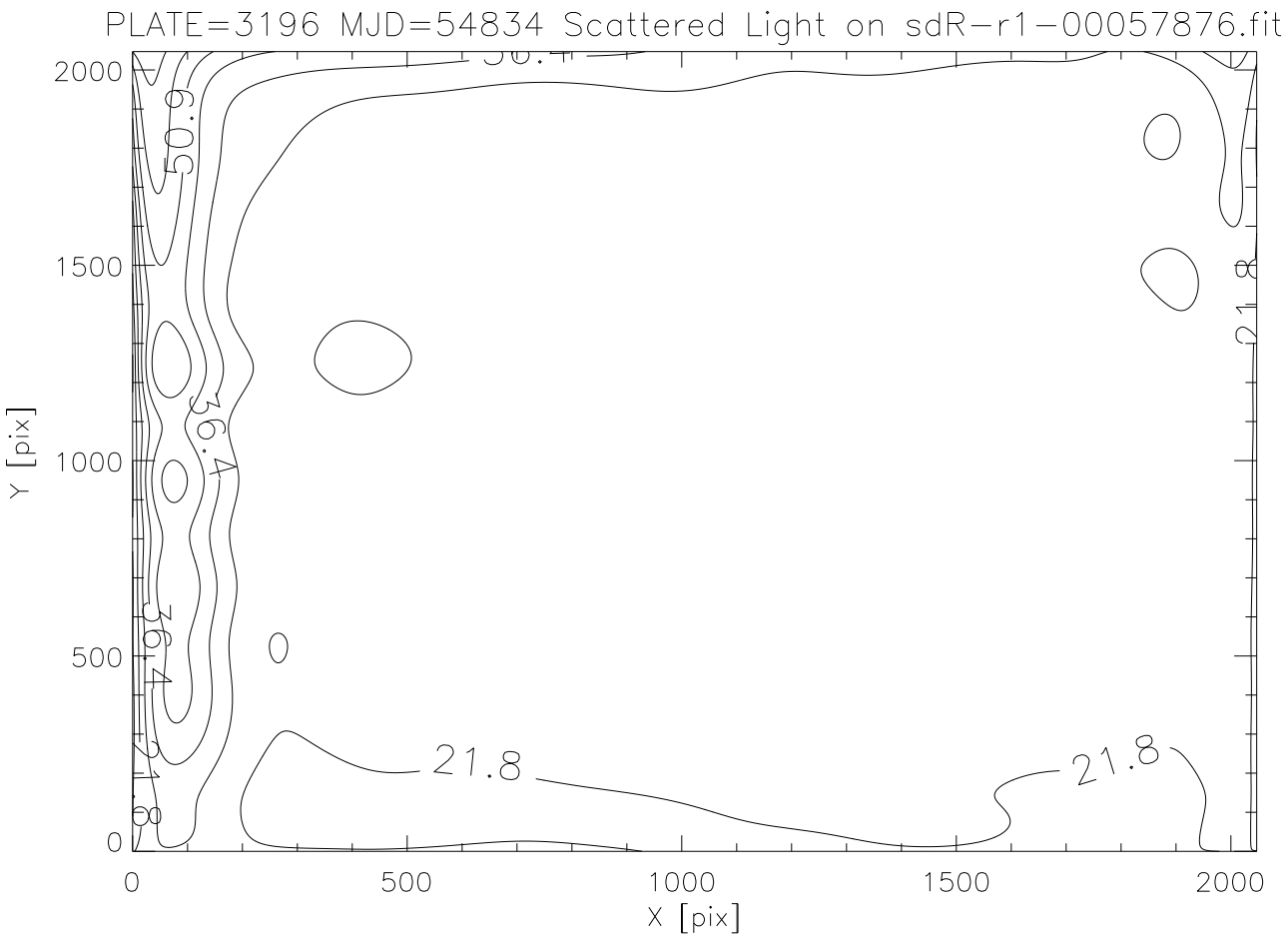

PLATE=3196 MJD=54834 sdR-r1-00057875.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.62 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

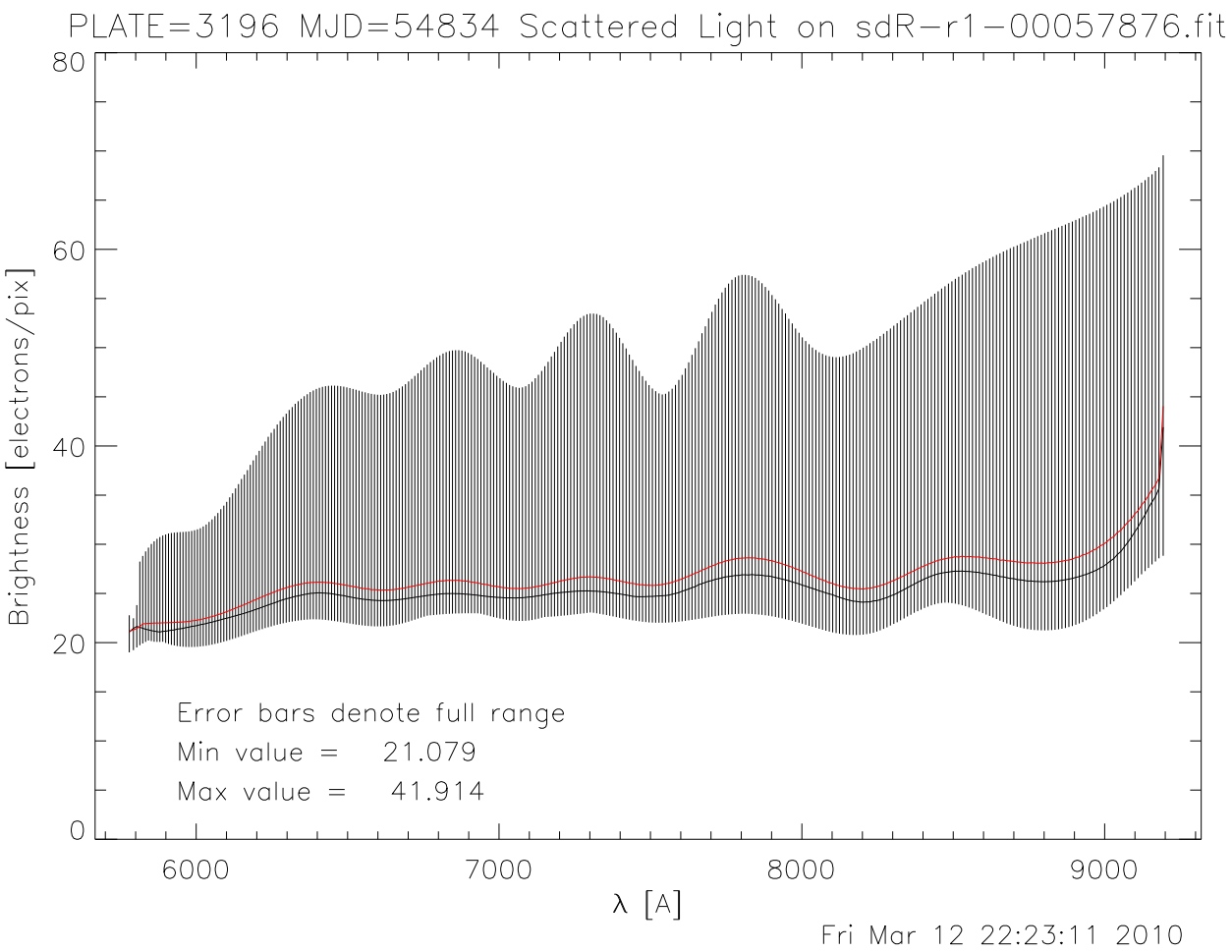

PLATE=3196 MJD=54834 sdR-r1-00057875.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.82 %
Fiber number
Focal Distance [mm]
Airmass

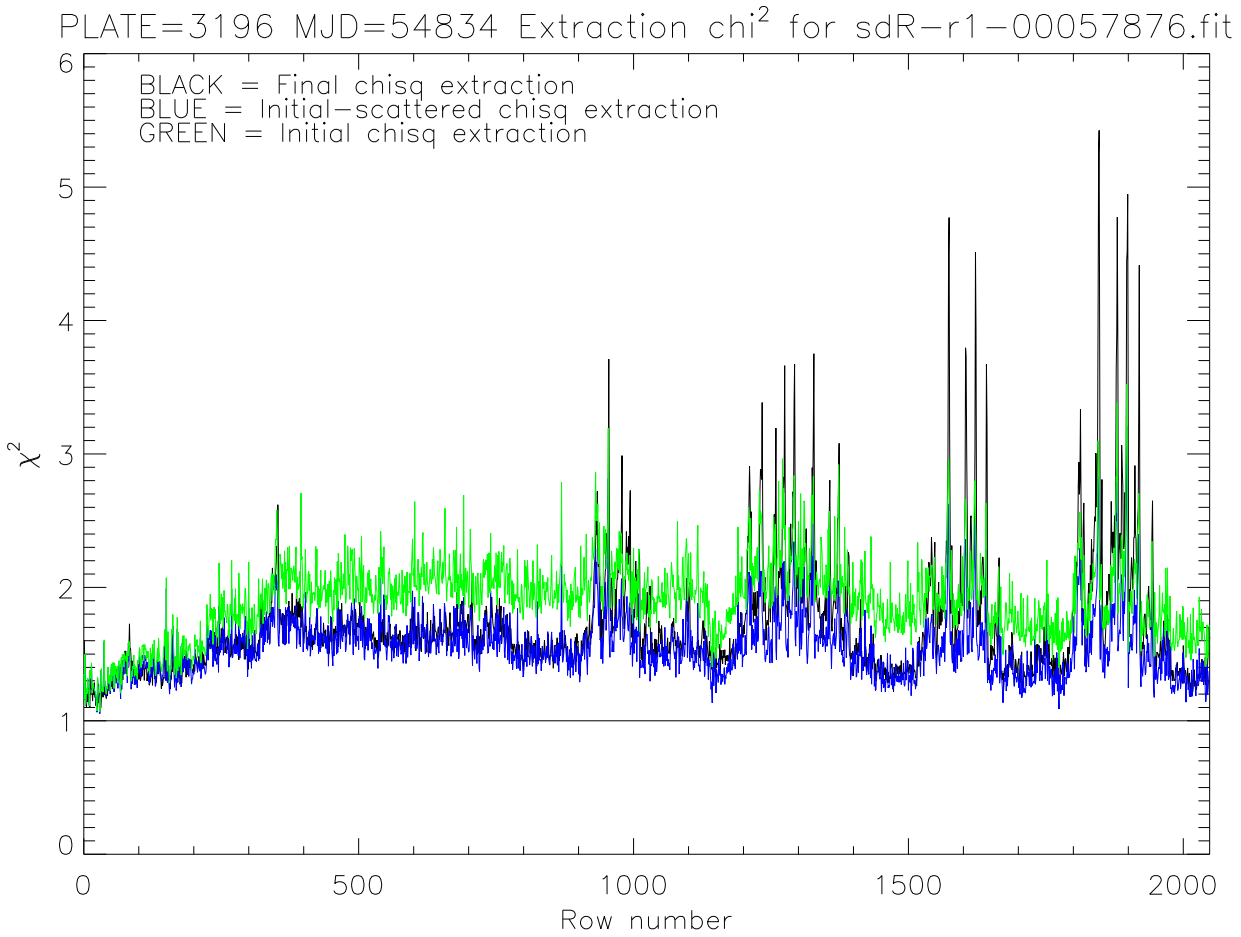

PLATE=3196 MJD=54834 Fiber−Flats for sdR−r1−00057873.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.467
Max value = 1.316
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Fri Mar 12 22:18:06 2010

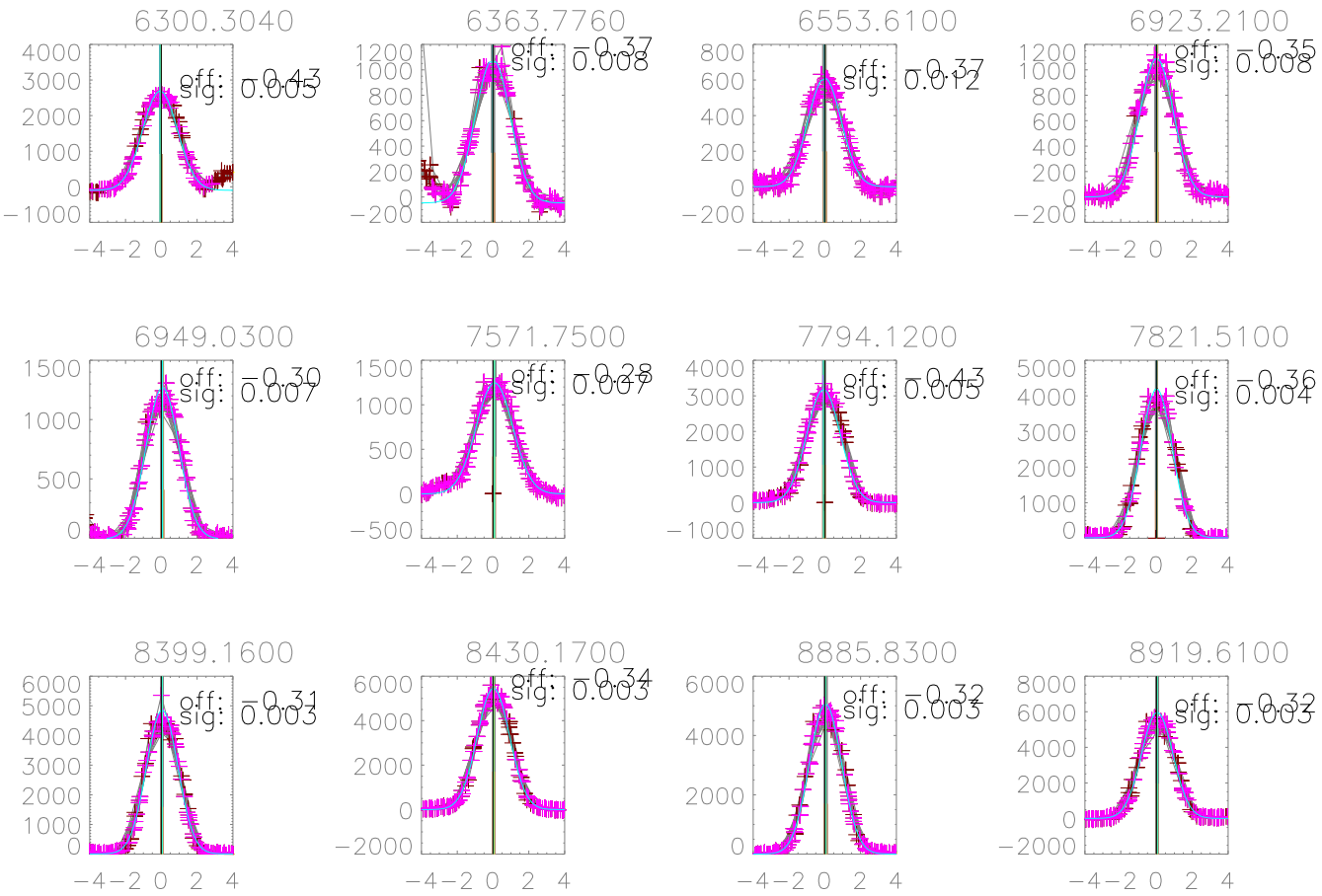

PLATE=3196 MJD=54834 Scattered Light before halo removal on sdR-r1-00057876.fi
89.1
89.1
89.1
63.6
63.6
38.2
38.2
Y [pix]
X [pix]
0
500
1000
1500
2000

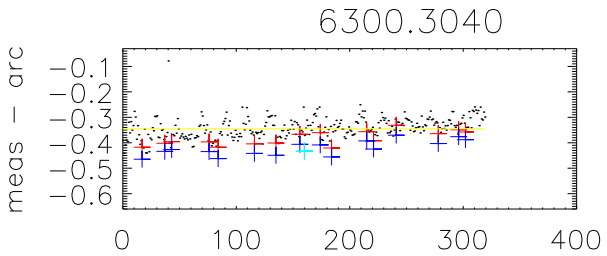

PLATE=3196 MJD=54834 Scattered Light before halo removal on sdR-r1-00057876.fi
150
100
50
0
Brightness [electrons/pix]
Error bars denote full range
Min value = 21.413
Max value = 97.323
6000
7000
8000
9000
λ [A]
Fri Mar 12 22:19:09 2010

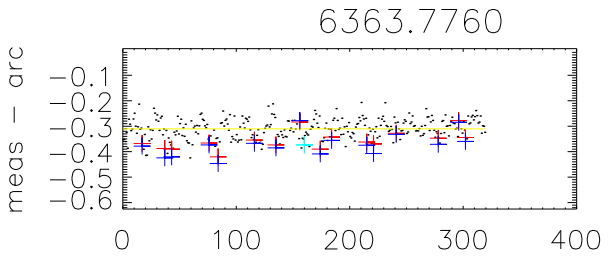

PLATE=3196 MJD=54834 Scattered Light on sdR-r1-00057876.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
50.9
36.4
0
21.8

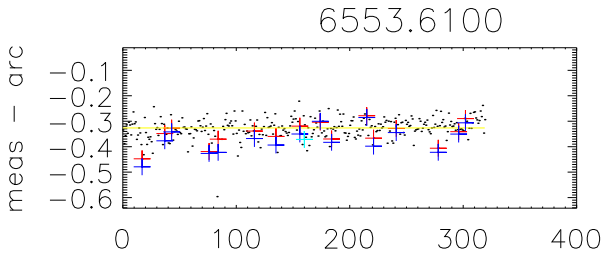

PLATE=3196 MJD=54834 Scattered Light on sdR-r1-00057876.fit
Brightness [electrons/pix]
80
60
40
20
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 21.079
Max value = 41.914
Fri Mar 12 22:23:11 2010

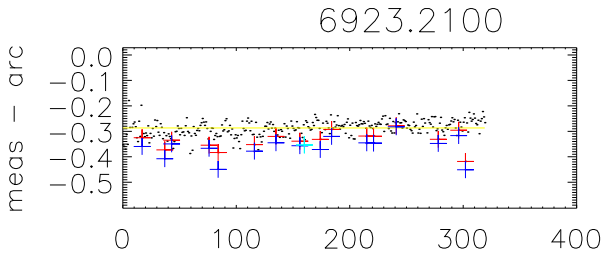

PLATE=3196 MJD=54834 Extraction chi^2 for sdR−r1−00057876.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

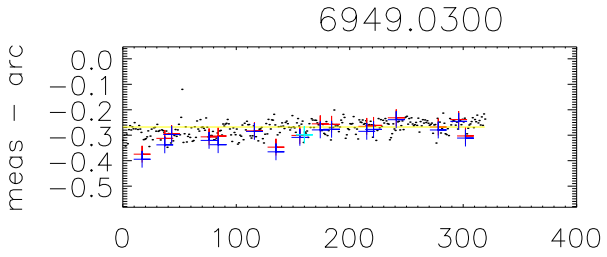

6300.3040
off: −0.43
sig: 0.005
6363.7760
off: −0.37
sig: 0.008
6553.6100
off: −0.37
sig: 0.012
6923.2100
off: −0.35
sig: 0.008
6949.0300
off: −0.30
sig: 0.007
7571.7500
off: −0.28
sig: 0.007
7794.1200
off: −0.43
sig: 0.005
7821.5100
off: −0.36
sig: 0.004
8399.1600
off: −0.31
sig: 0.003
8430.1700
off: −0.34
sig: 0.003
8885.8300
off: −0.32
sig: 0.003
8919.6100
off: −0.32
sig: 0.003

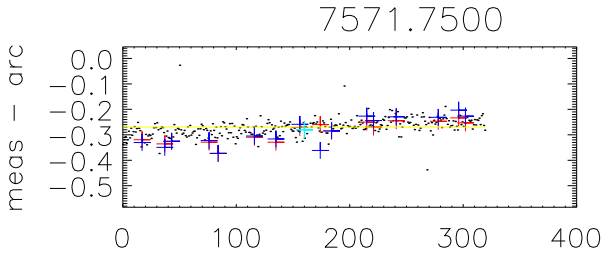

6300.3040
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

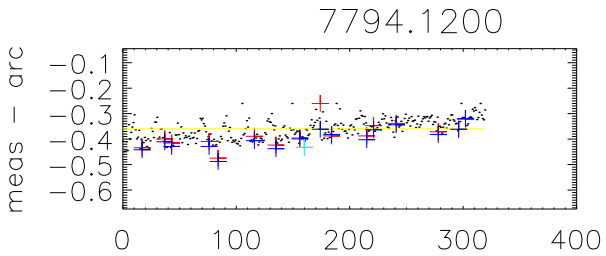

6363.7760
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

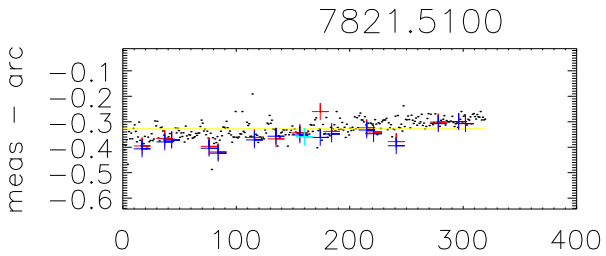

6553.6100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

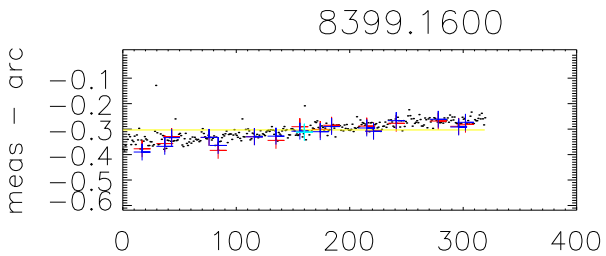

6923.2100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

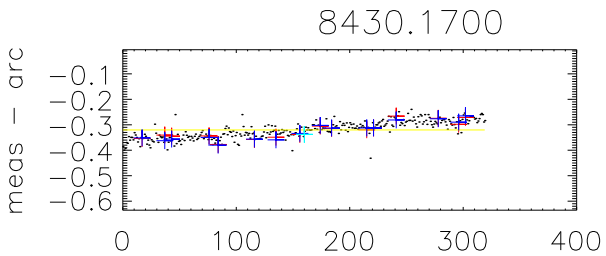

6949.0300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

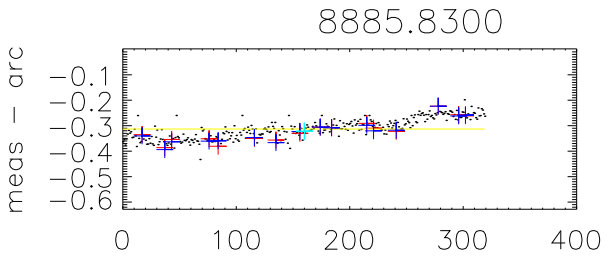

7571.7500
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

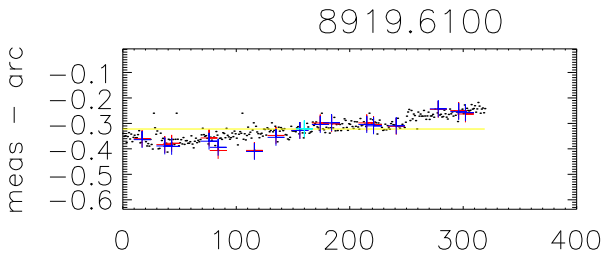

7794.1200
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

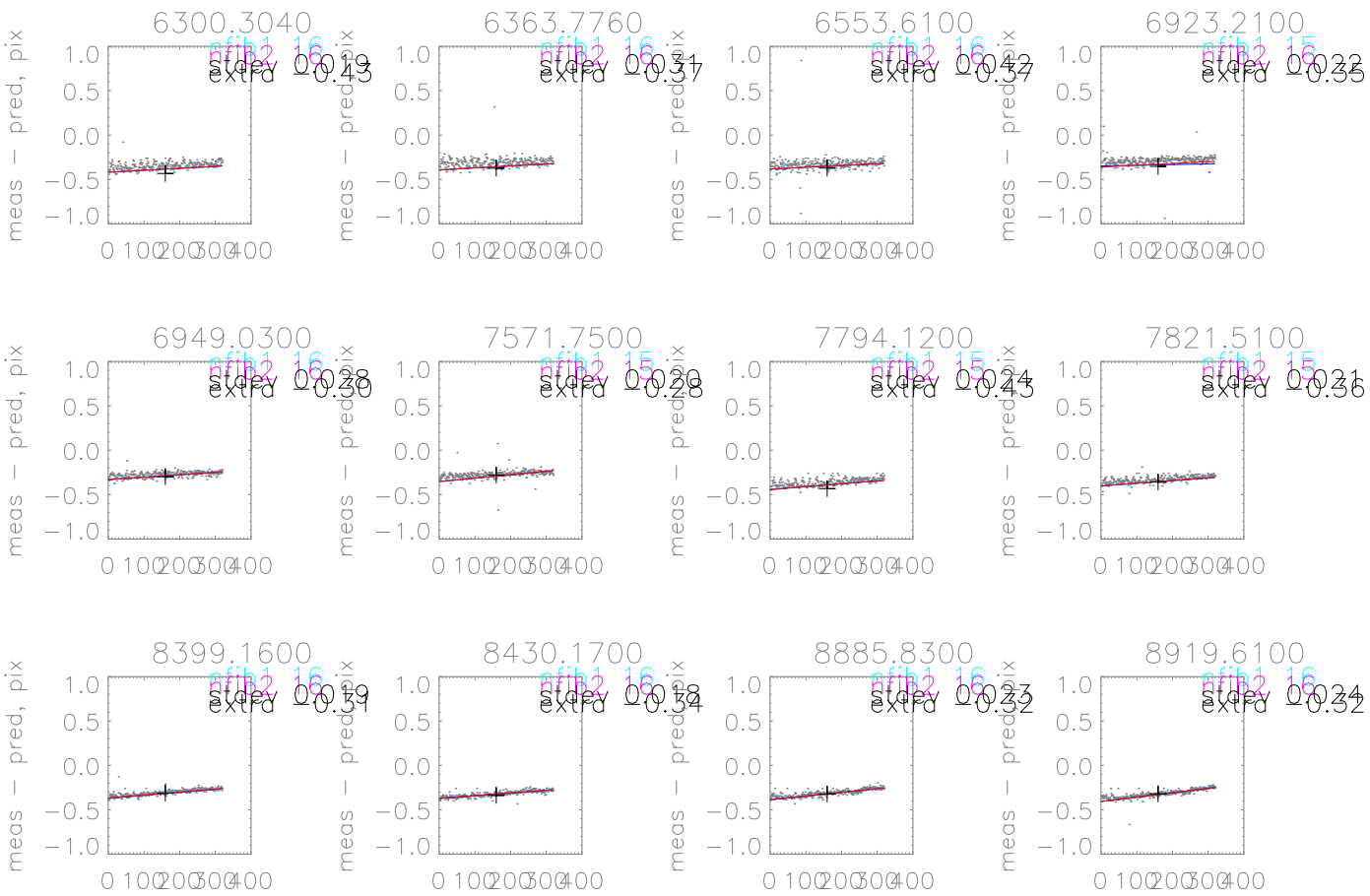

7821.5100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

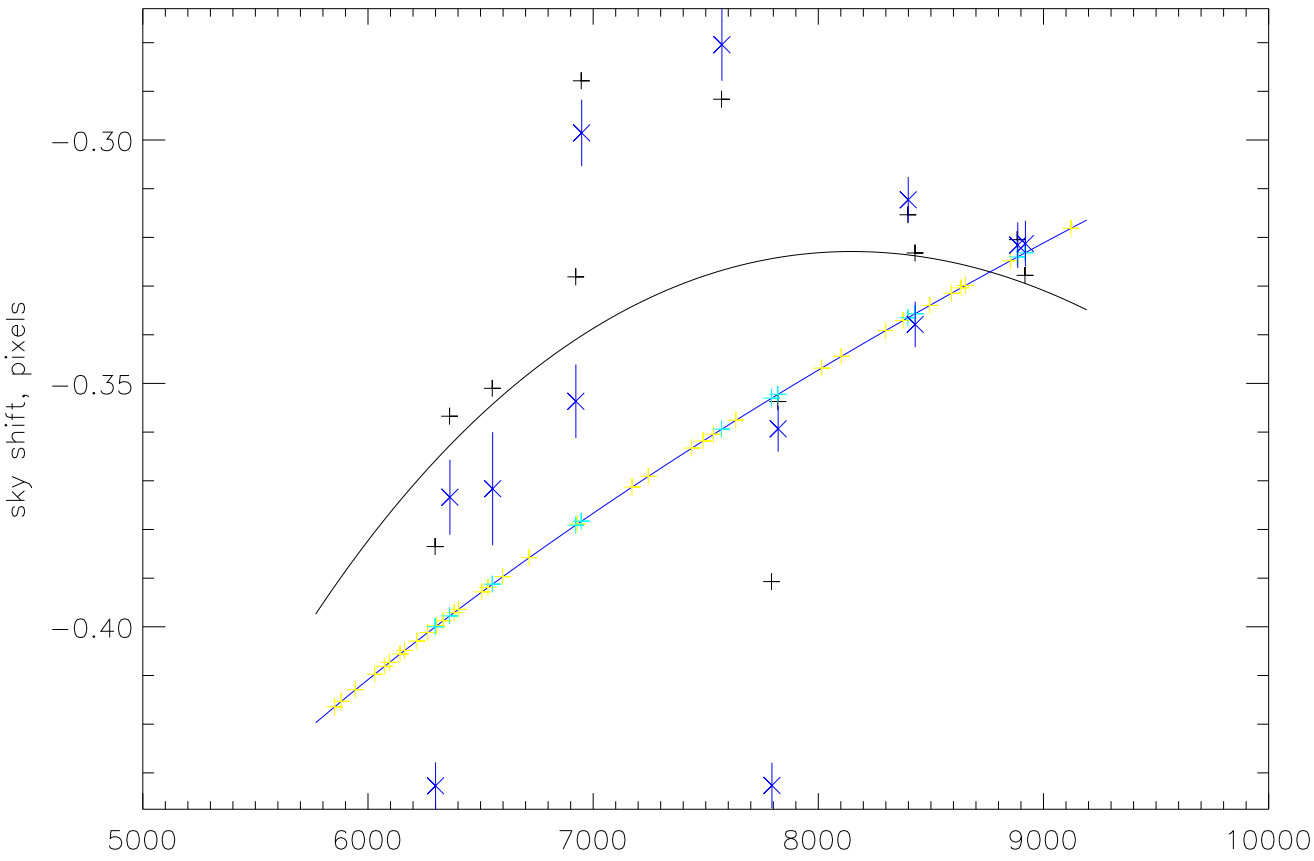

8399.1600
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

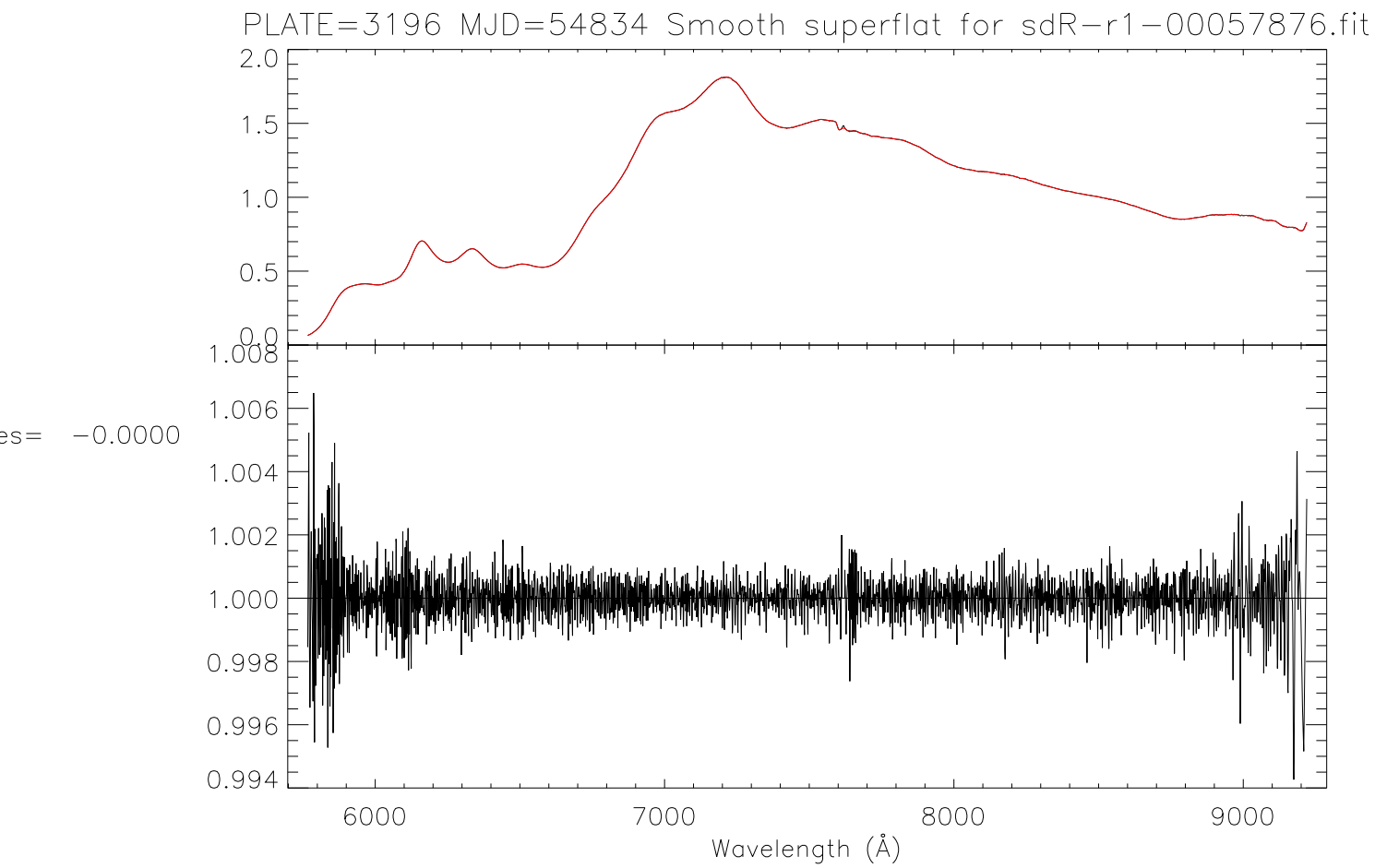

8430.1700
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400


8885.8300
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

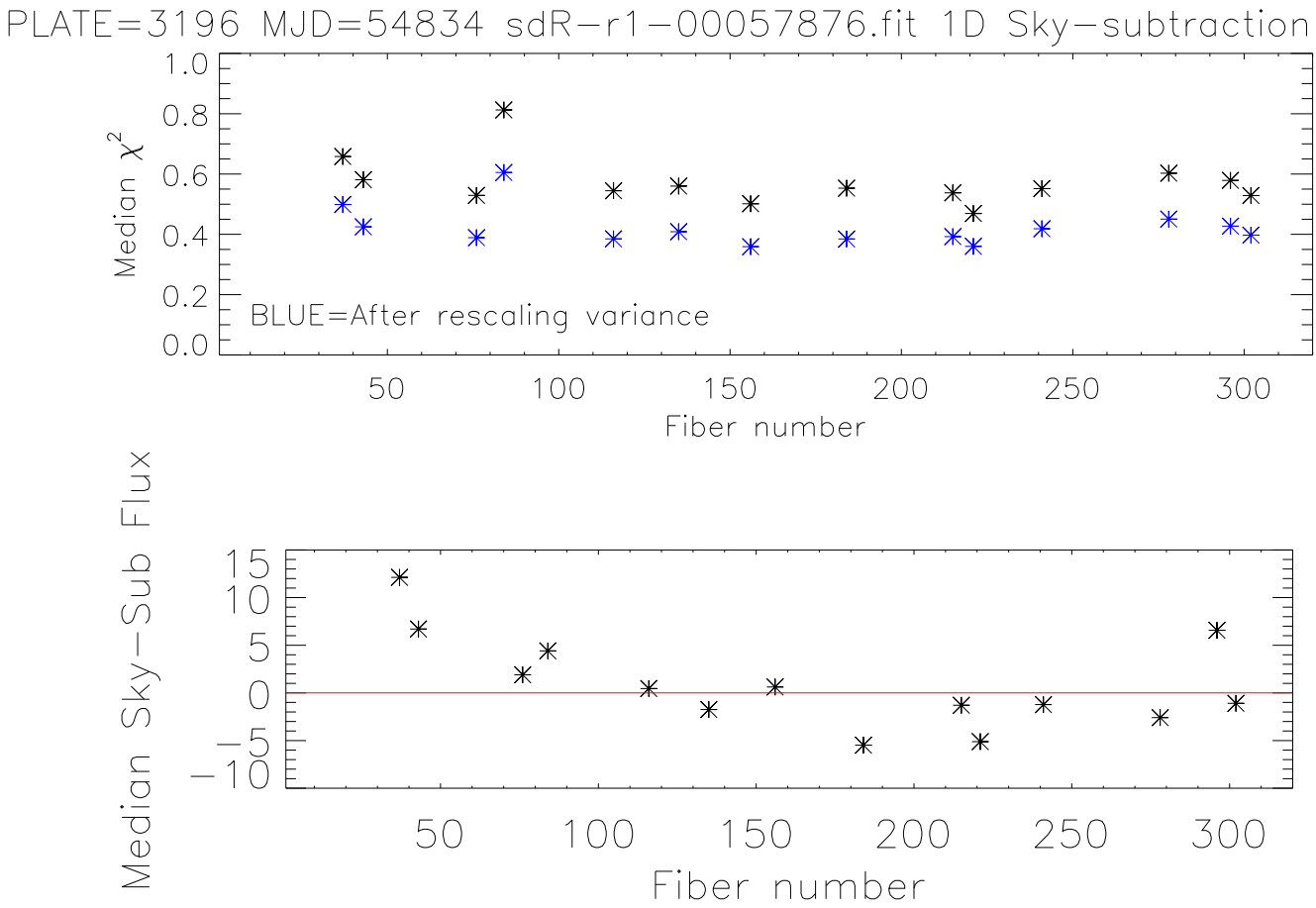

8919.6100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

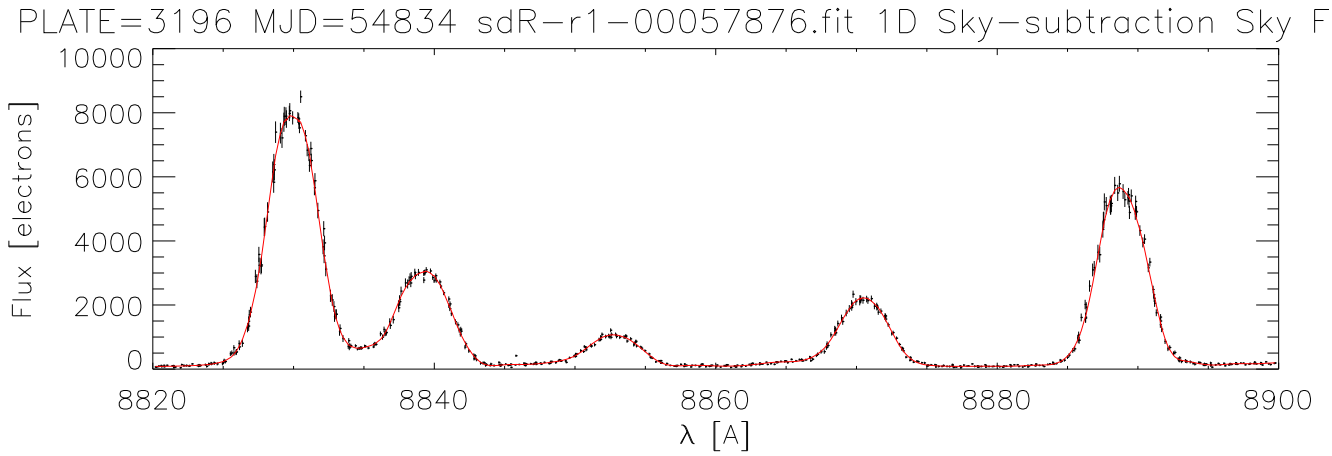

6300.3040
stdev 0.019
extrd 0.43
6363.7760
stdev 0.031
extrd 0.37
6553.6100
stdev 0.042
extrd 0.37
6923.2100
stdev 0.022
extrd 0.35
6949.0300
stdev 0.028
extrd 0.30
7571.7500
stdev 0.020
extrd 0.28
7794.1200
stdev 0.024
extrd 0.43
7821.5100
stdev 0.021
extrd 0.36
8399.1600
stdev 0.019
extrd 0.31
8430.1700
stdev 0.018
extrd 0.34
8885.8300
stdev 0.023
extrd 0.32
8919.6100
stdev 0.024
extrd 0.32
meas − pred, pix
mfhd1 16
mfhd2 16
mfhd1 15
mfhd2 15

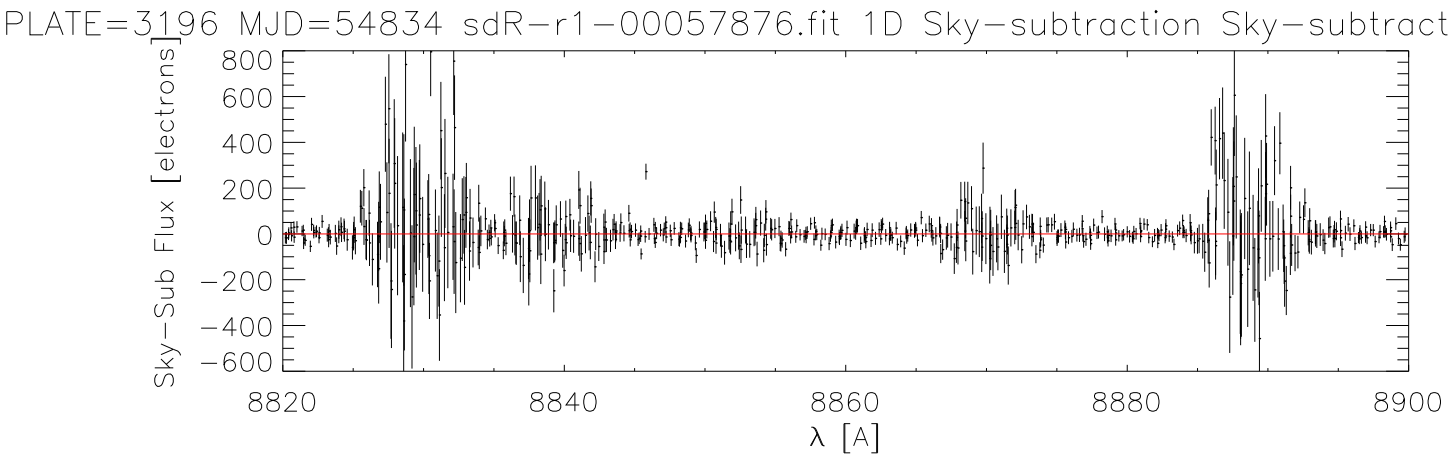

−0.30
−0.35
−0.40
sky shift, pixels
5000
6000
7000
8000
9000
10000

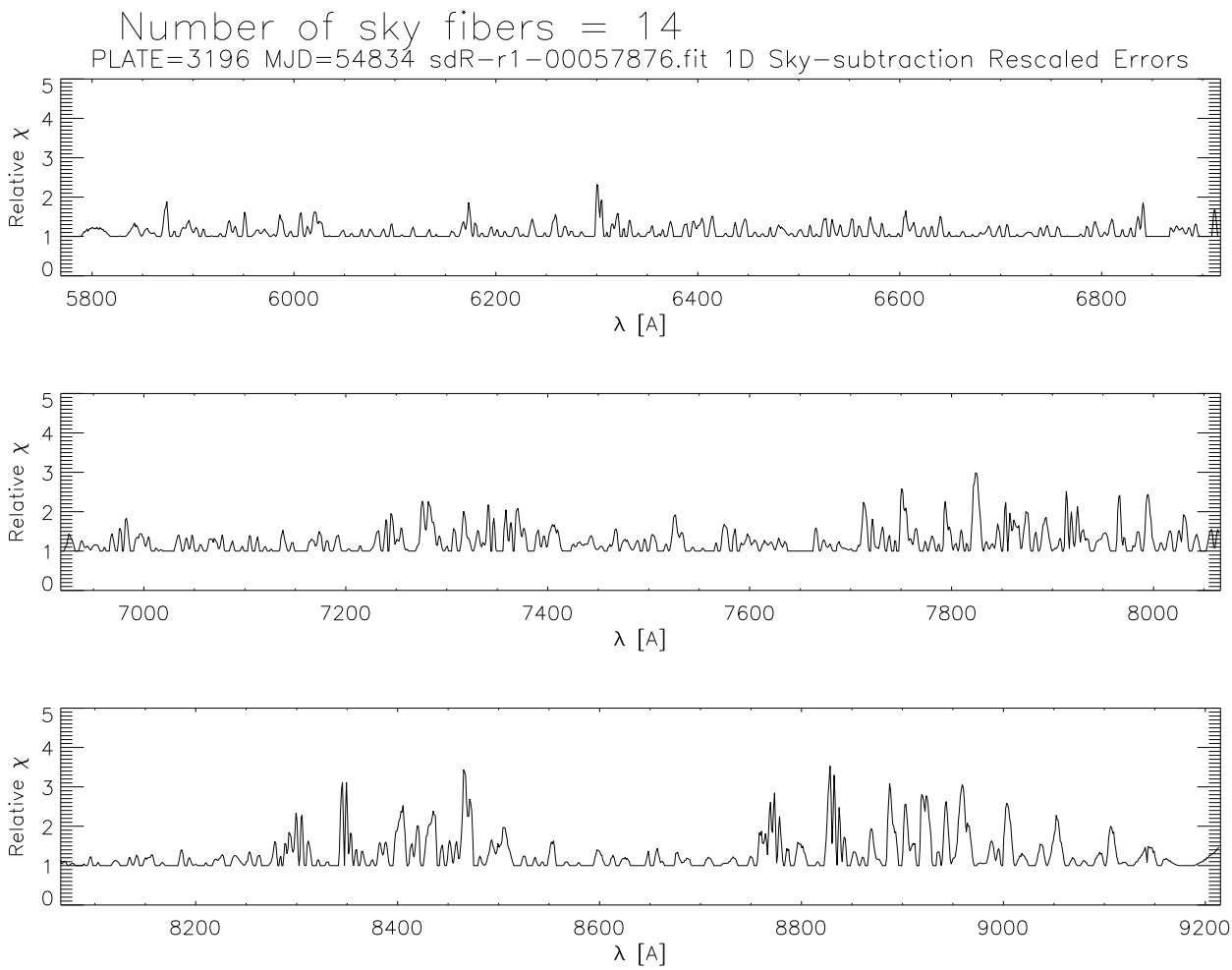

PLATE=3196 MJD=54834 Smooth superflat for sdR-r1-00057876.fit
2.0
1.5
1.0
0.5
0.0
1.008
1.006
1.004
1.002
1.000
0.998
0.996
0.994
6000
7000
8000
9000
Wavelength (Å)

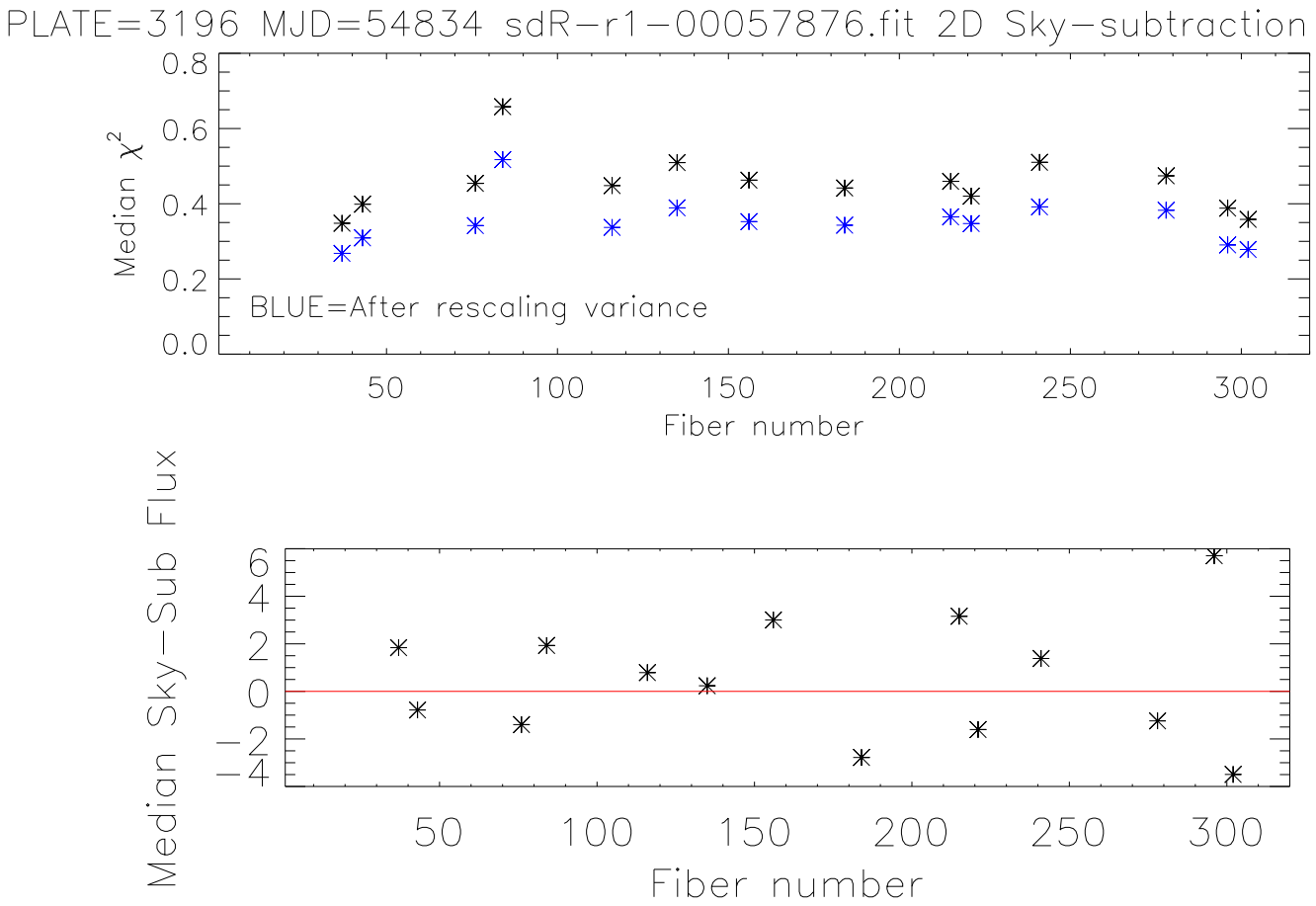
es= −0.0000

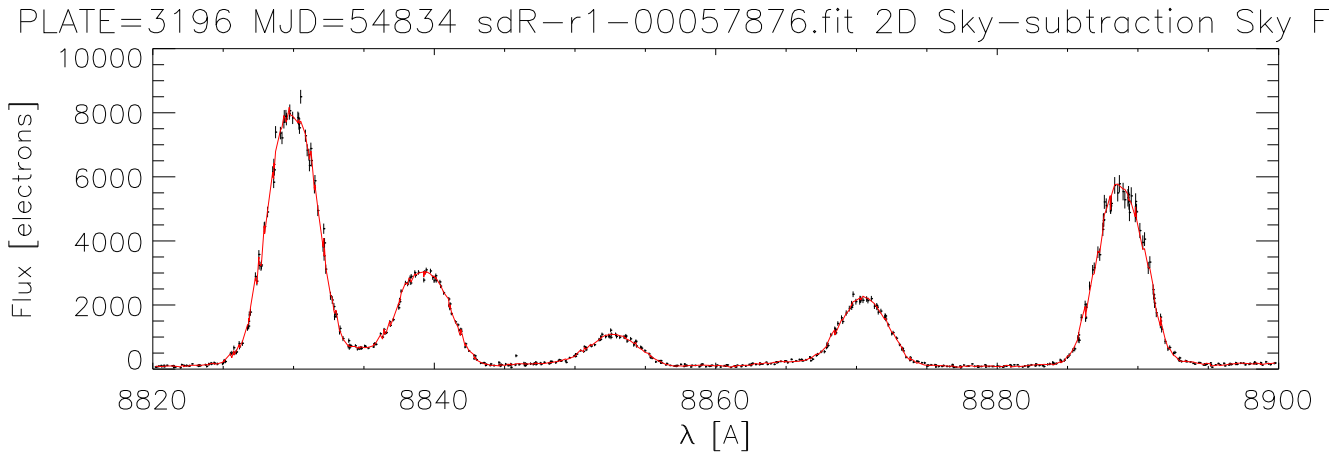

PLATE=3196 MJD=54834 sdR-r1-00057876.fit 1D Sky-subtraction Sky Fibers
Median χ^2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
15
10
5
0
-5
-10
50
100
150
200
250
300
Fiber number

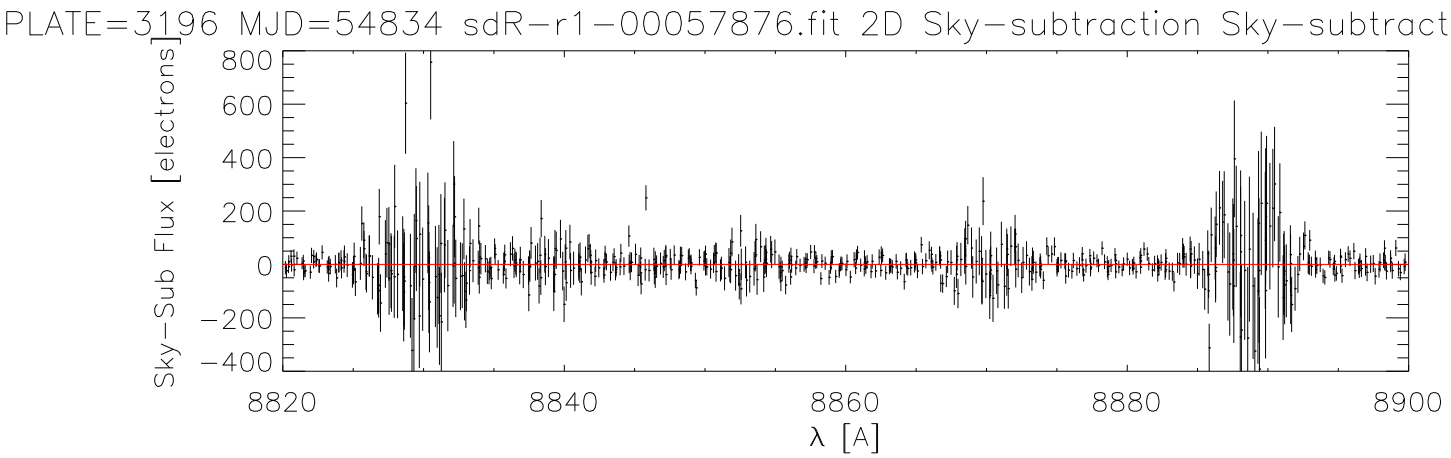

PLATE=3196 MJD=54834 sdR-r1-00057876.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

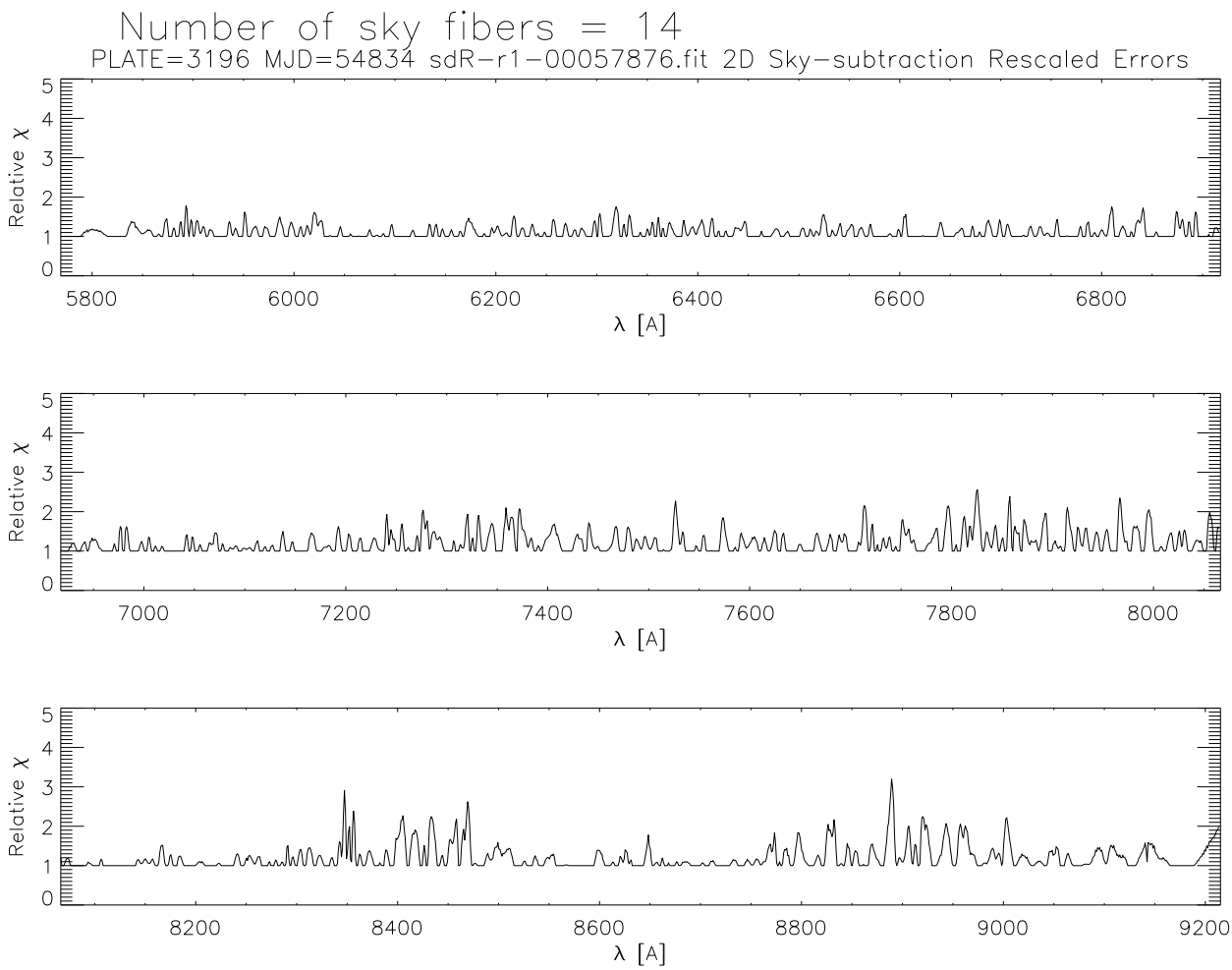

PLATE=3196 MJD=54834 sdR-r1-00057876.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
-400
-600
8820
8840
8860
8880
8900
λ [A]

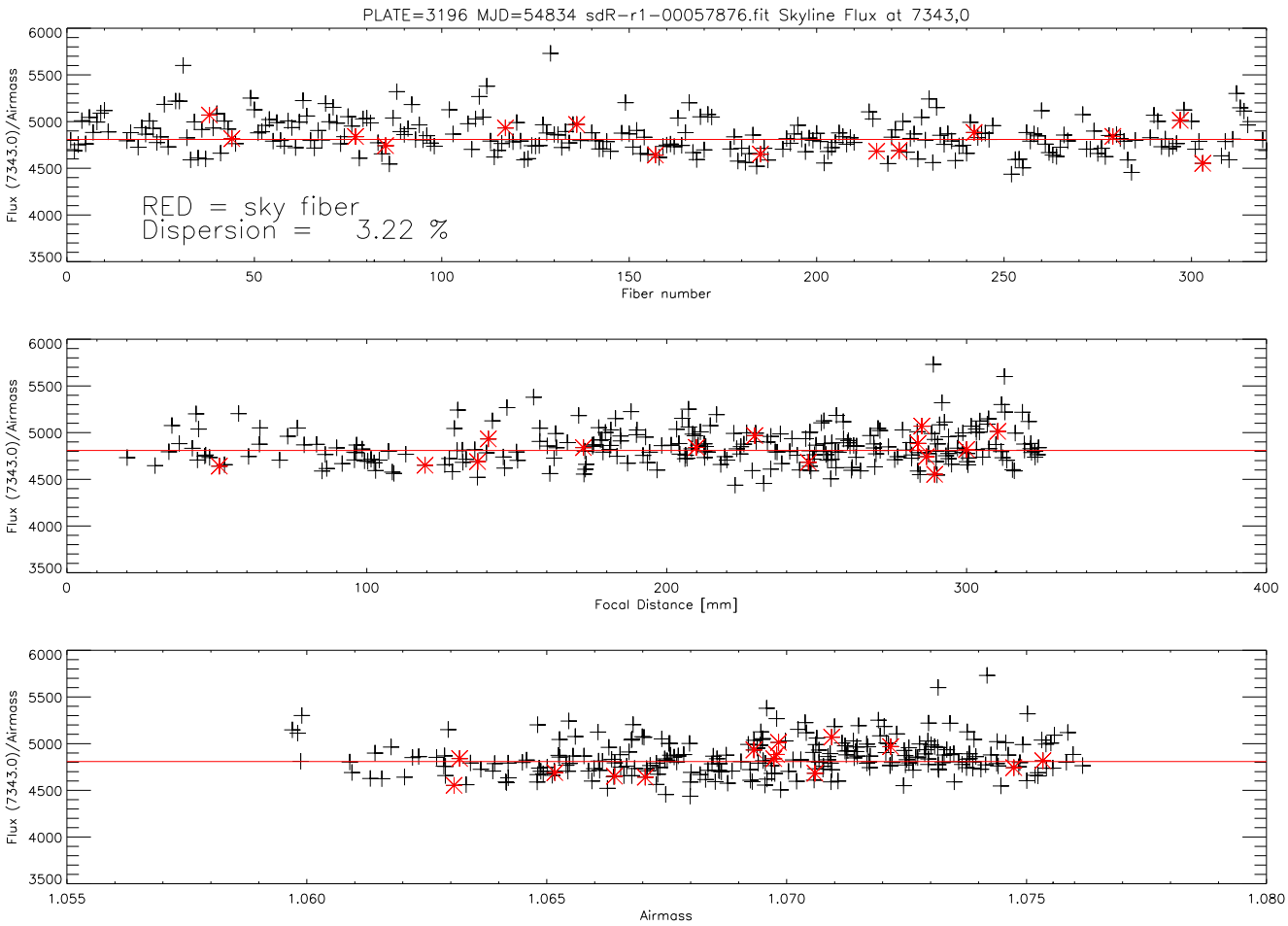

Number of sky fibers = 14
PLATE=3196 MJD=54834 sdR-r1-00057876.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

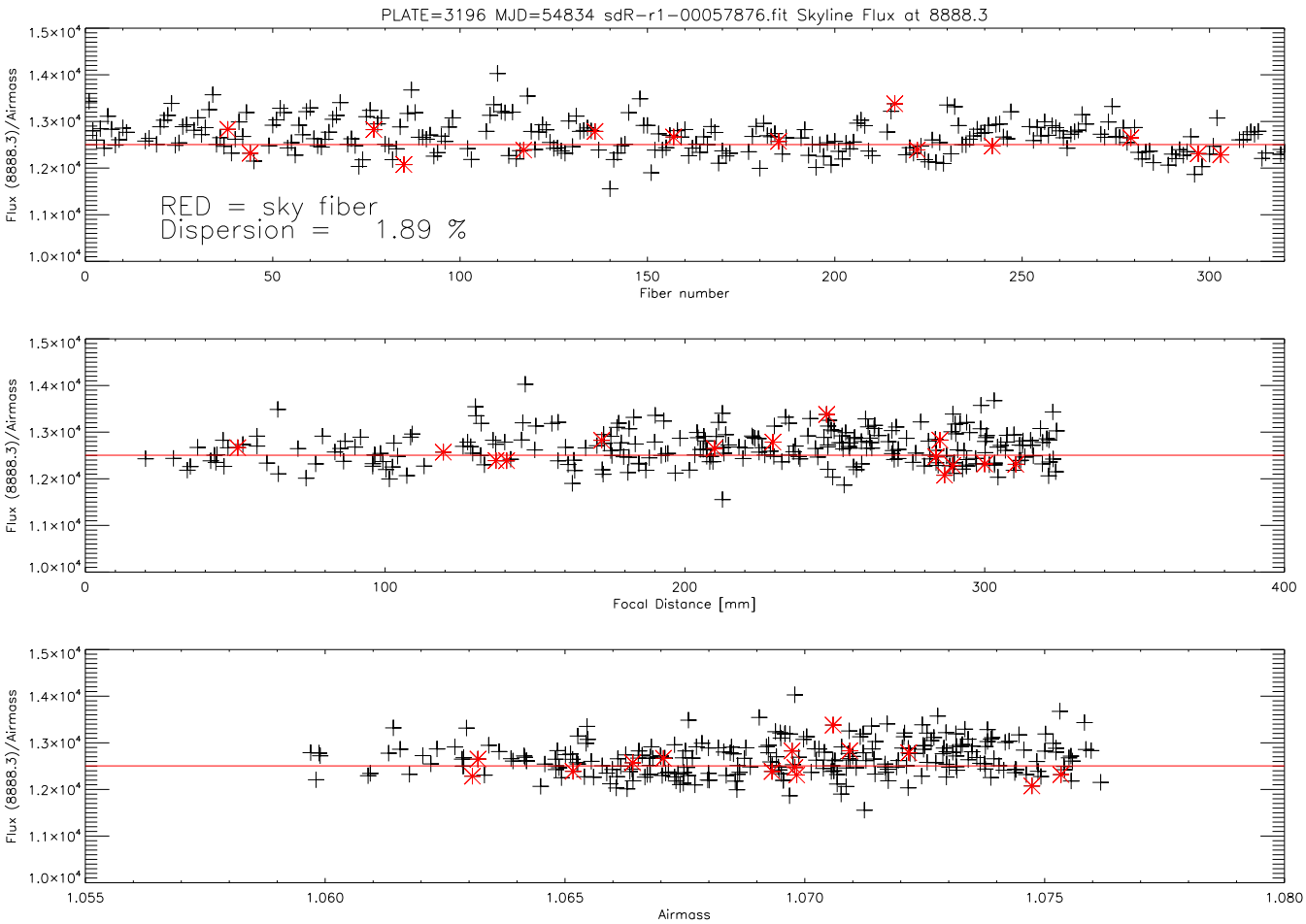

PLATE=3196 MJD=54834 sdR-r1-00057876.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

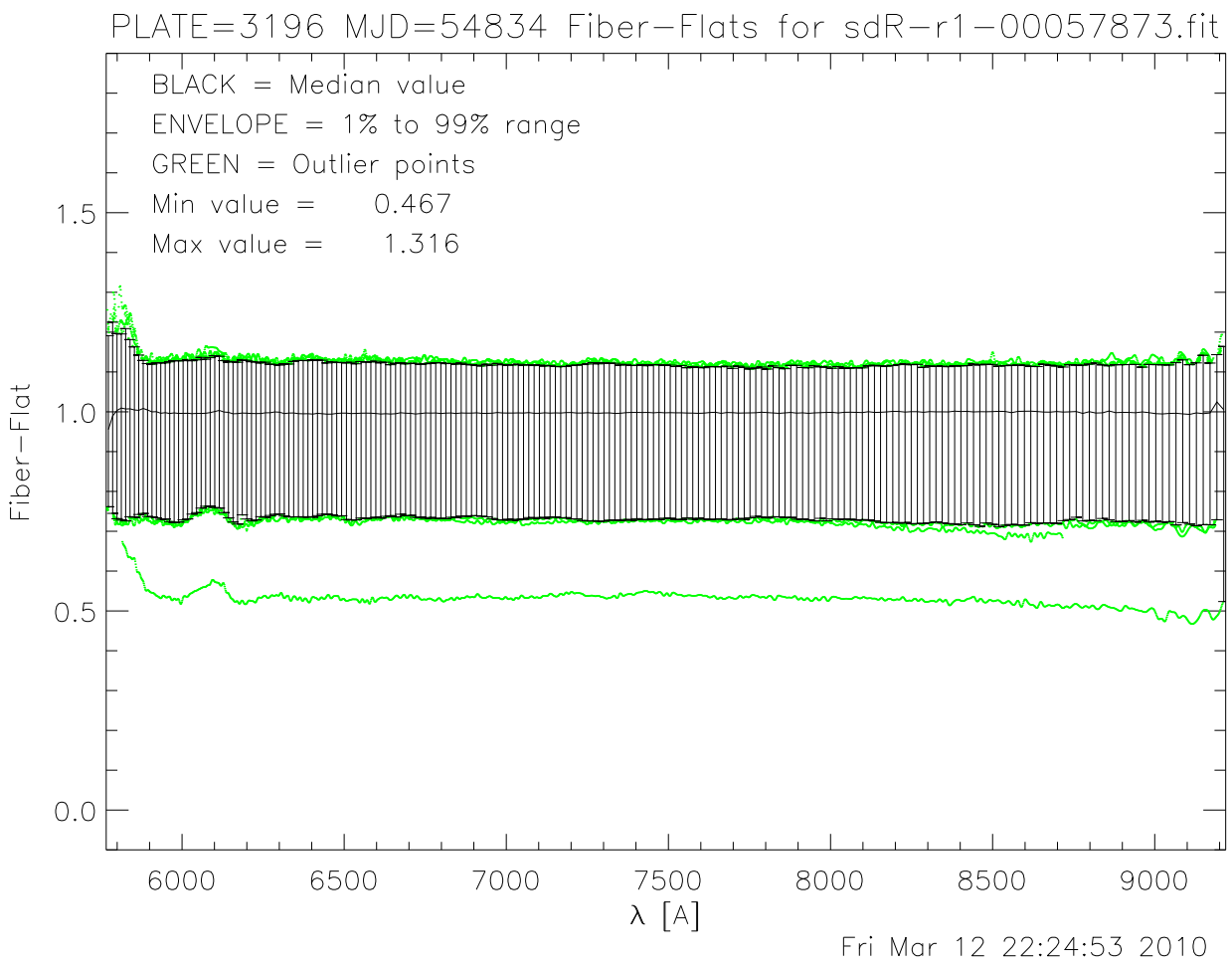

PLATE=3196 MJD=54834 sdR-r1-00057876.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

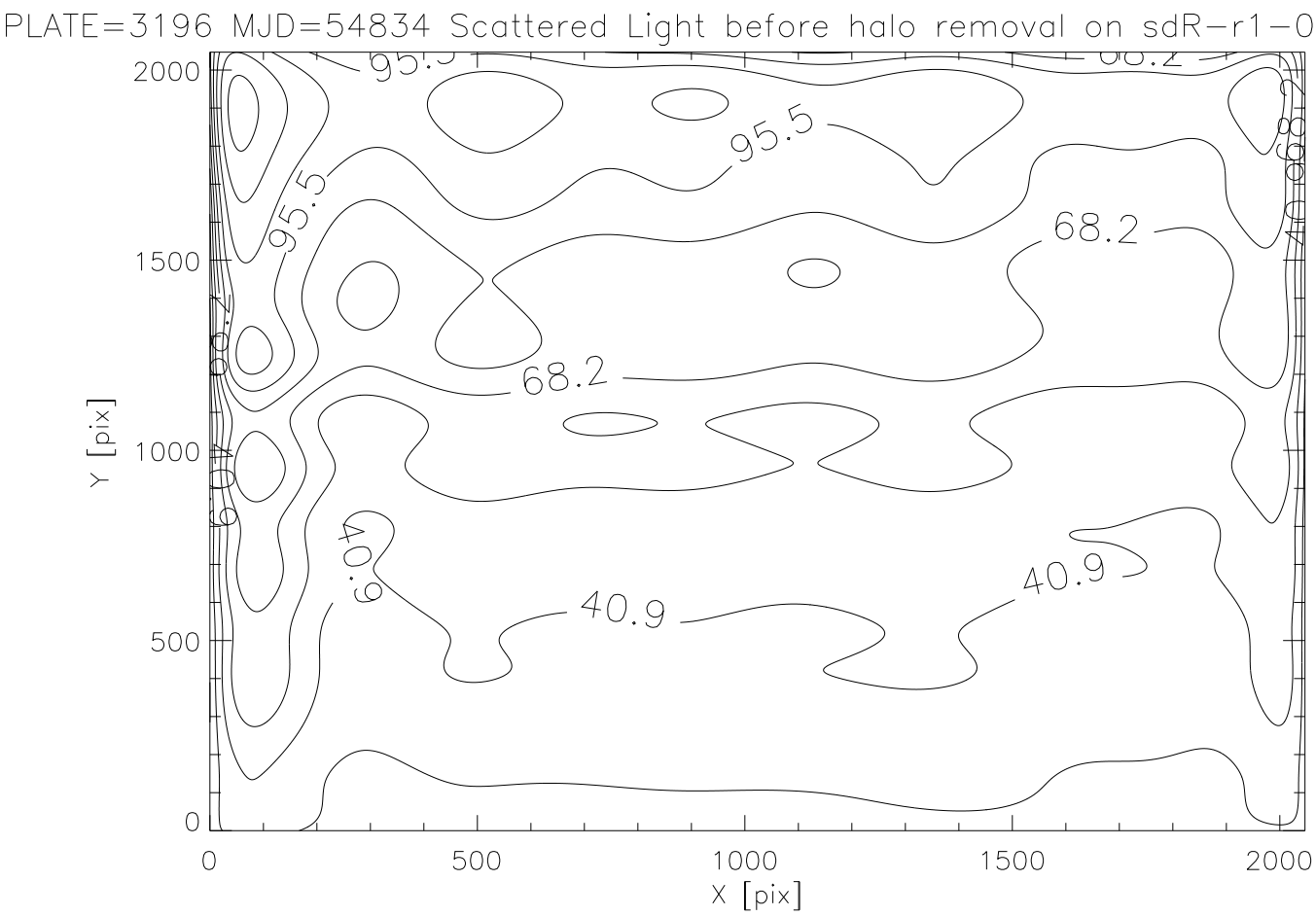

PLATE=3196 MJD=54834 sdR-r1-00057876.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
−200
−400
8820
8840
8860
8880
8900
λ [A]

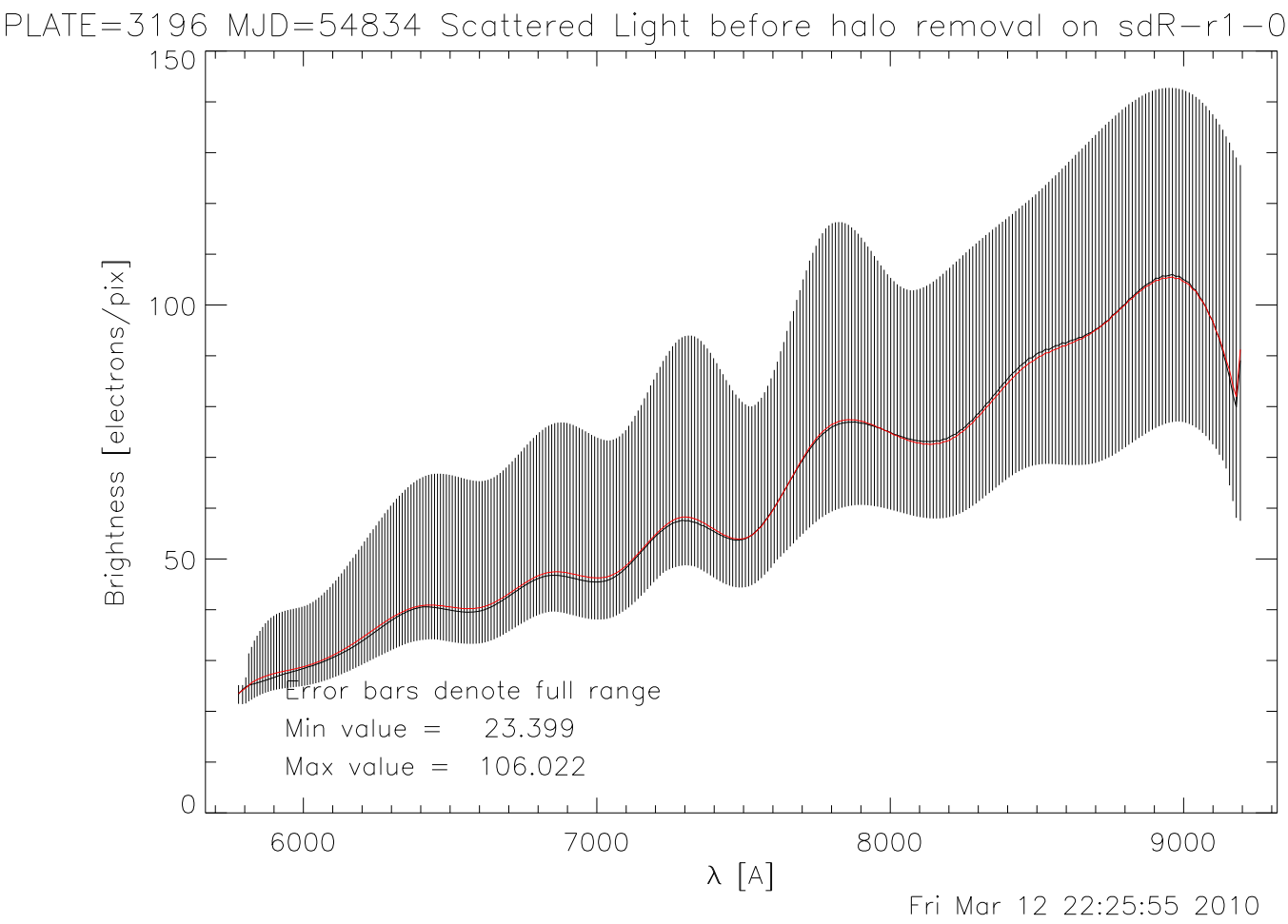

Number of sky fibers = 14
PLATE=3196 MJD=54834 sdR-r1-00057876.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

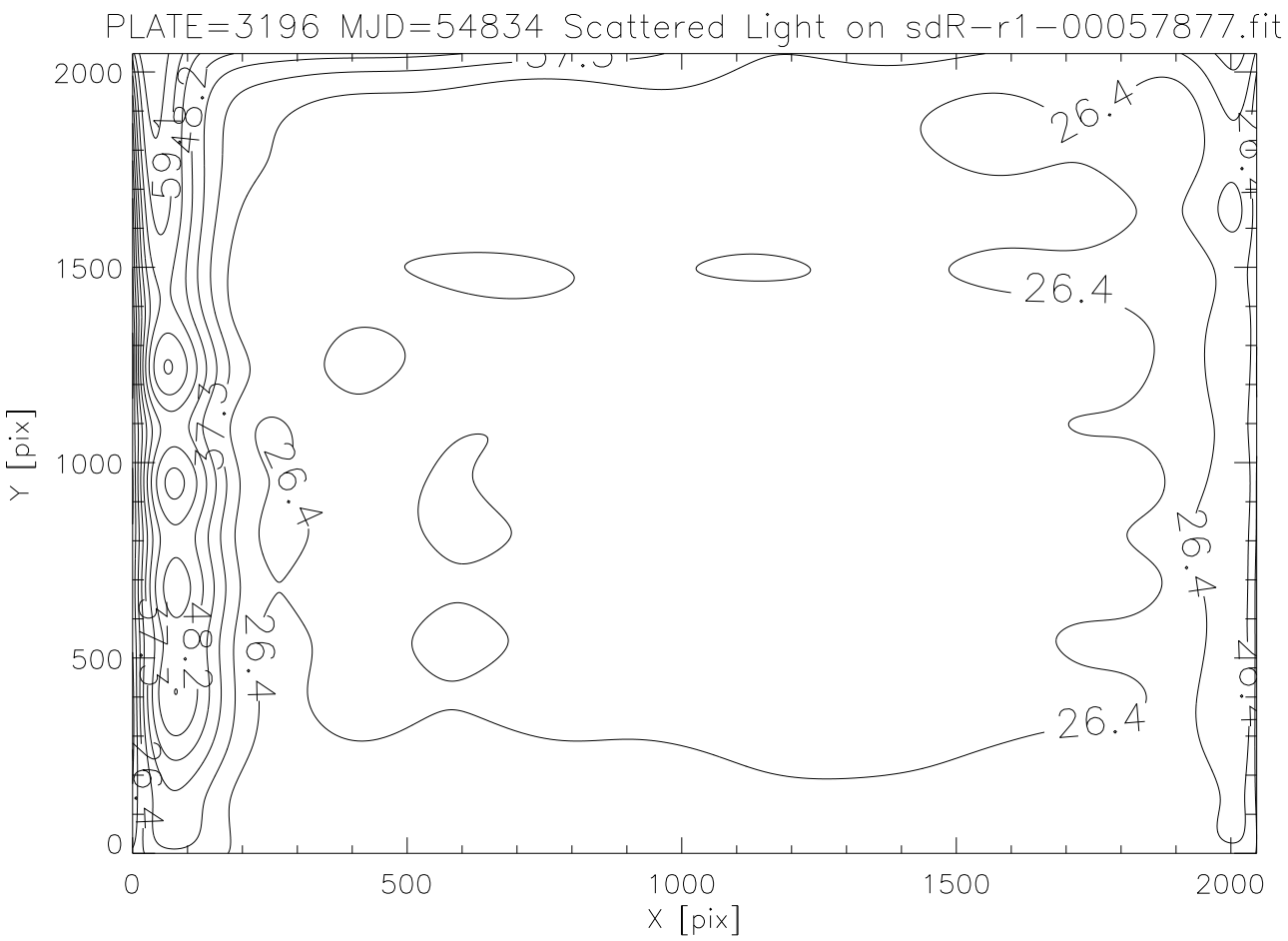

PLATE=3196 MJD=54834 sdR-r1-00057876.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.22 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

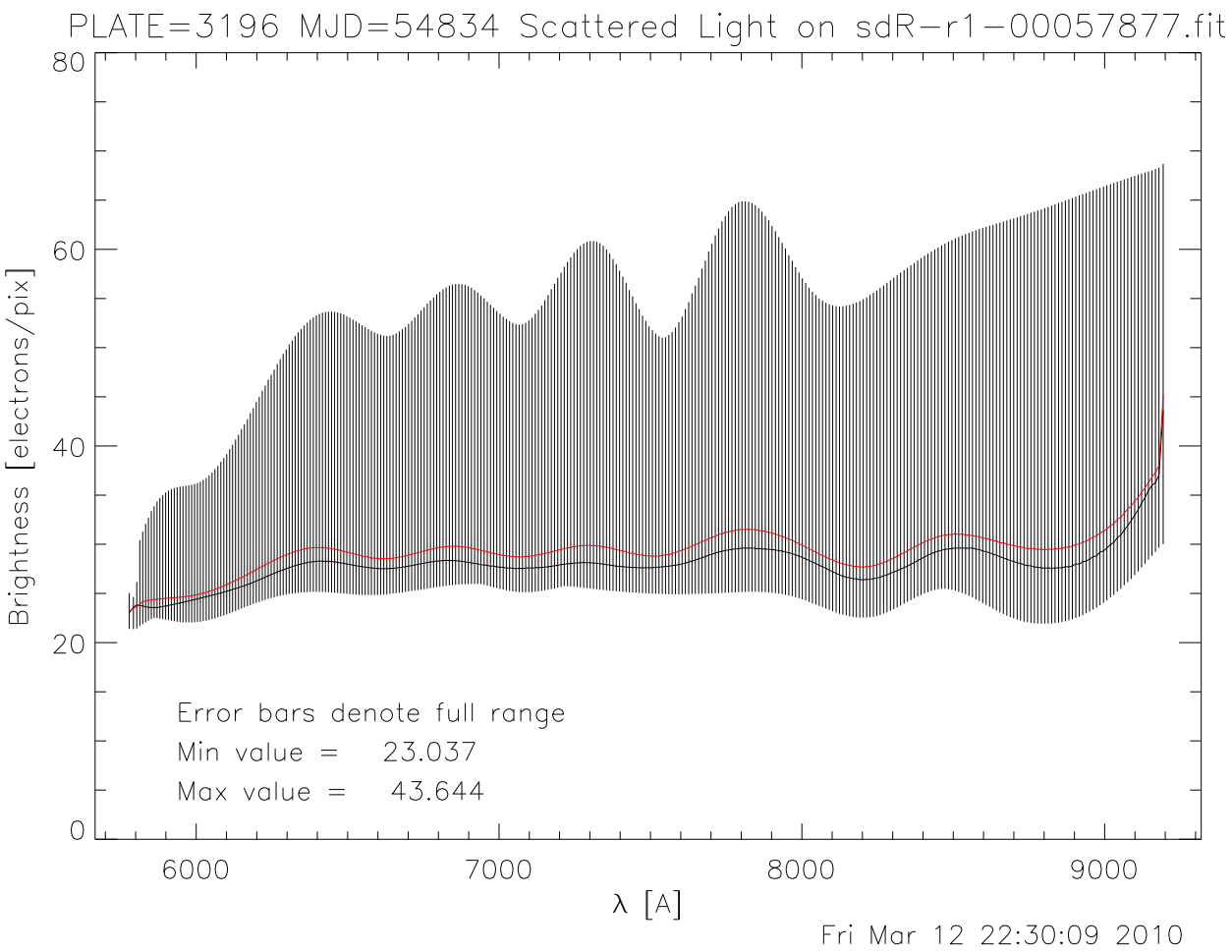

PLATE=3196 MJD=54834 sdR-r1-00057876.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.89 %
Fiber number
Focal Distance [mm]
Airmass

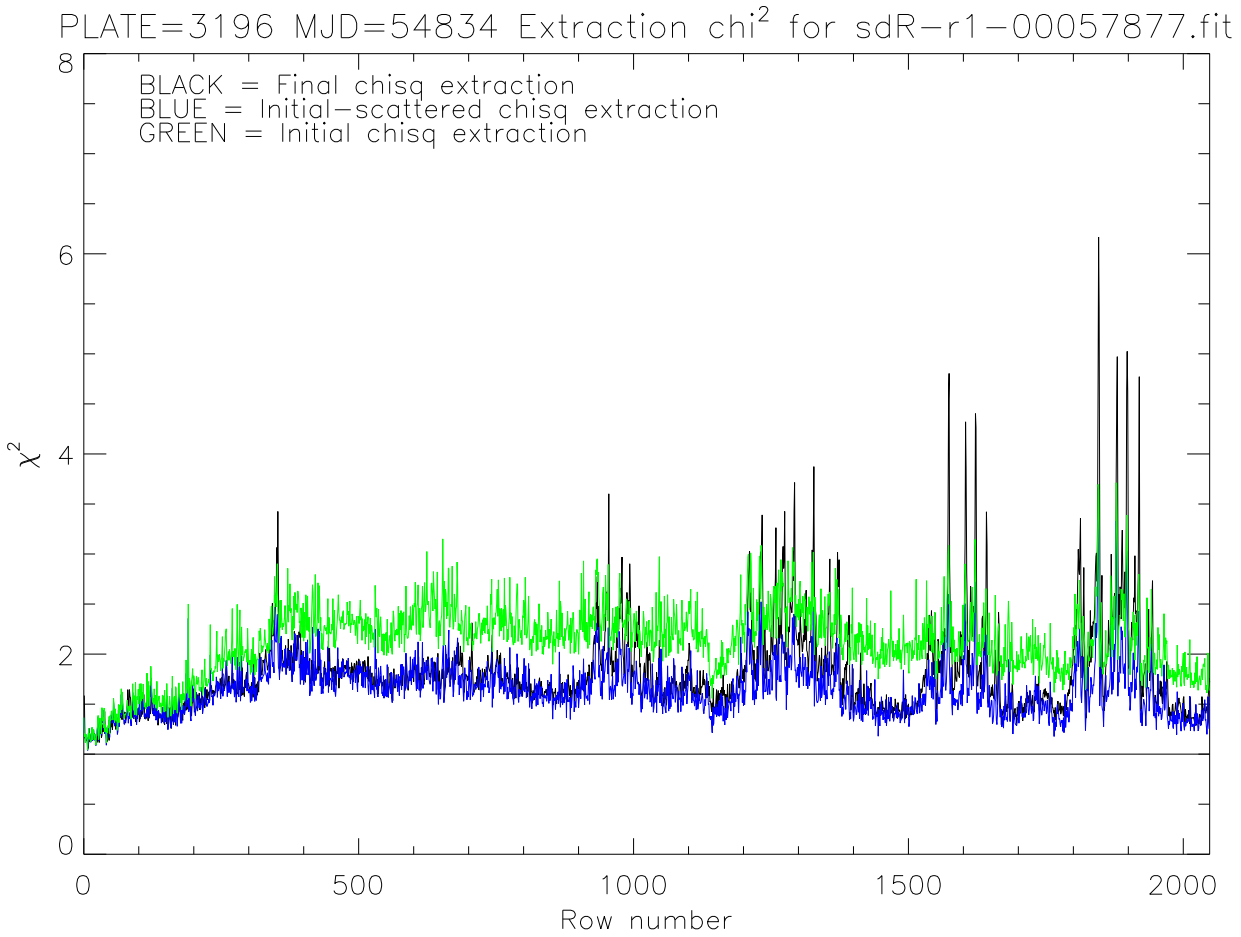

PLATE=3196 MJD=54834 Fiber−Flats for sdR−r1−00057873.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.467
Max value = 1.316
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Fri Mar 12 22:24:53 2010

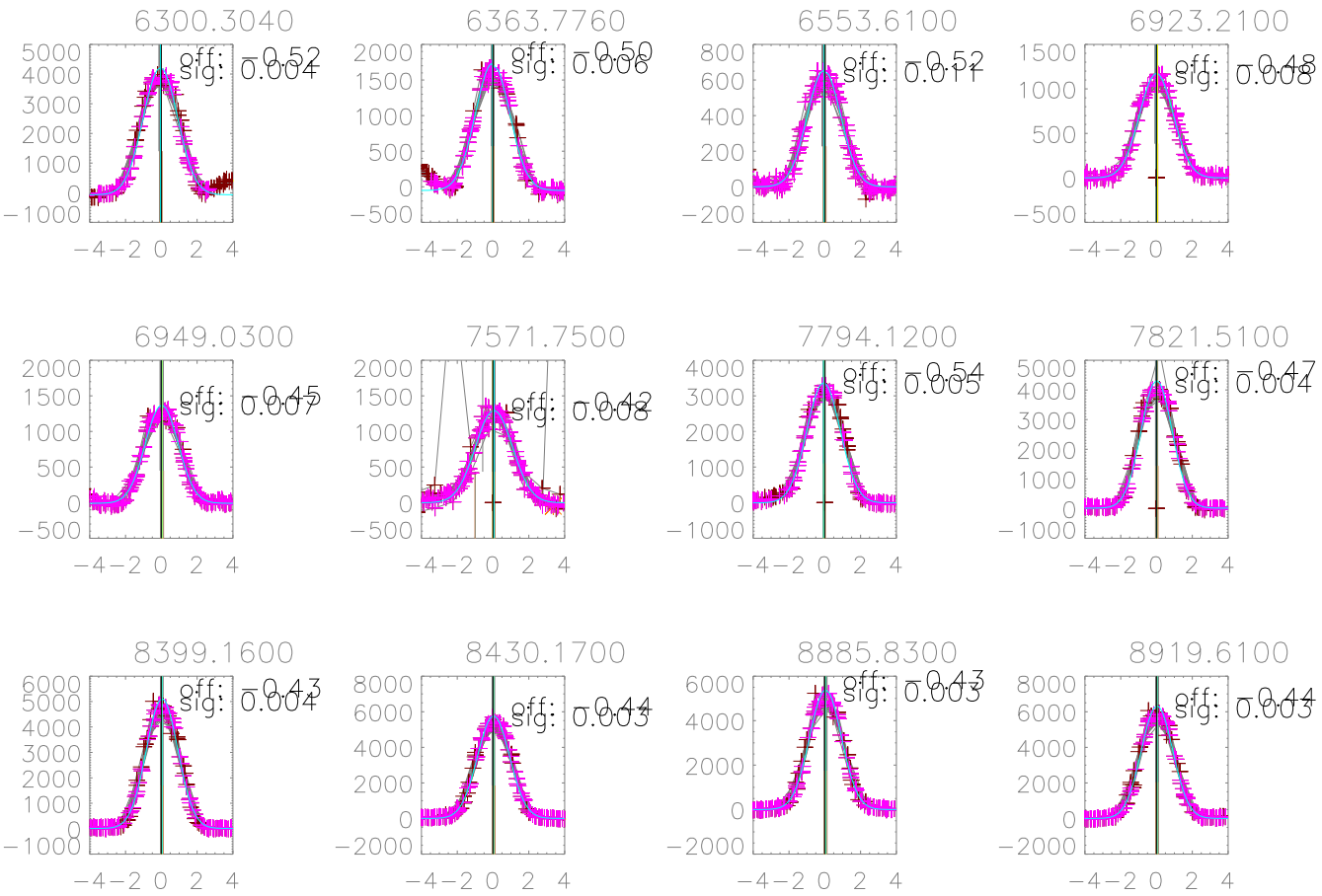

PLATE=3196 MJD=54834 Scattered Light before halo removal on sdR-r1-00057877.fi
95.5
95.5
68.2
68.2
40.9
40.9
Y [pix]
X [pix]
0
500
1000
1500
2000

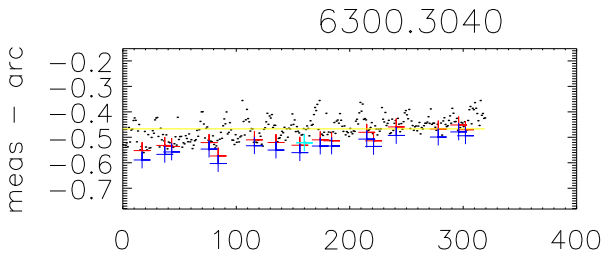

PLATE=3196 MJD=54834 Scattered Light before halo removal on sdR-r1-00057877.fi
150
100
50
0
Brightness [electrons/pix]
Error bars denote full range
Min value = 23.399
Max value = 106.022
6000
7000
8000
9000
λ [A]
Fri Mar 12 22:25:55 2010

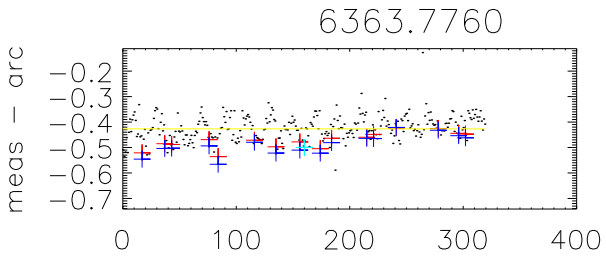

PLATE=3196 MJD=54834 Scattered Light on sdR-r1-00057877.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
26.4
26.4
26.4
26.4
26.4

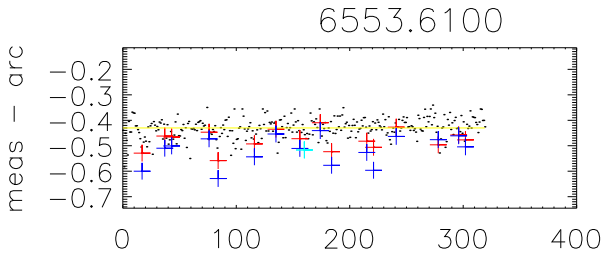

PLATE=3196 MJD=54834 Scattered Light on sdR-r1-00057877.fit
Brightness [electrons/pix]
80
60
40
20
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 23.037
Max value = 43.644
Fri Mar 12 22:30:09 2010

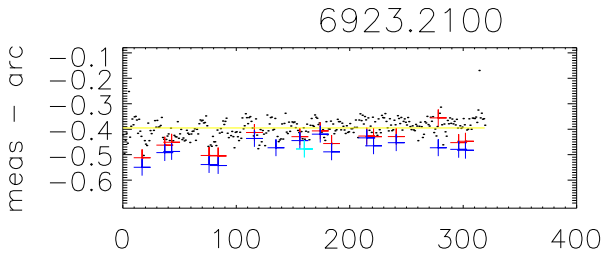

PLATE=3196 MJD=54834 Extraction chi^2 for sdR-r1-00057877.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

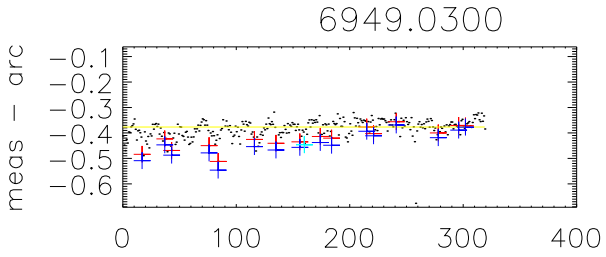

6300.3040
off: −0.52
sig: 0.004
6363.7760
off: −0.50
sig: 0.006
6553.6100
off: −0.52
sig: 0.011
6923.2100
off: −0.48
sig: 0.008
6949.0300
off: −0.45
sig: 0.007
7571.7500
off: −0.42
sig: 0.008
7794.1200
off: −0.54
sig: 0.005
7821.5100
off: −0.47
sig: 0.004
8399.1600
off: −0.43
sig: 0.004
8430.1700
off: −0.44
sig: 0.003
8885.8300
off: −0.43
sig: 0.003
8919.6100
off: −0.44
sig: 0.003

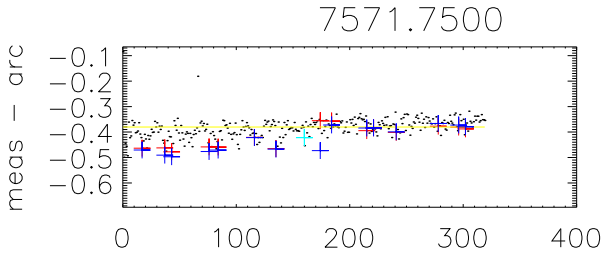

6300.3040
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

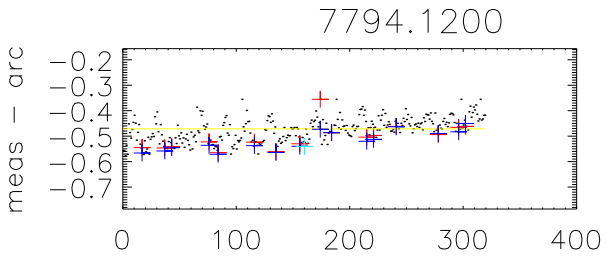

6363.7760
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

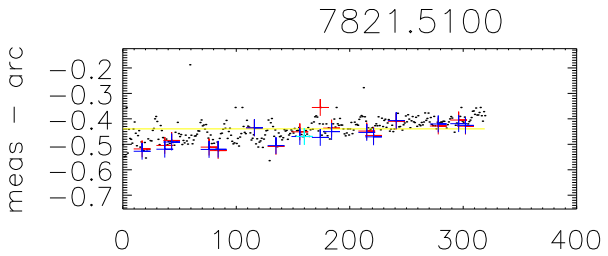

6553.6100
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

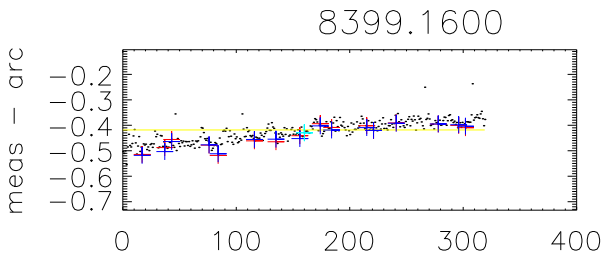

6923.2100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

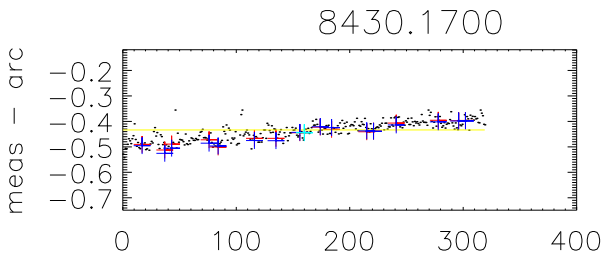

6949.0300
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

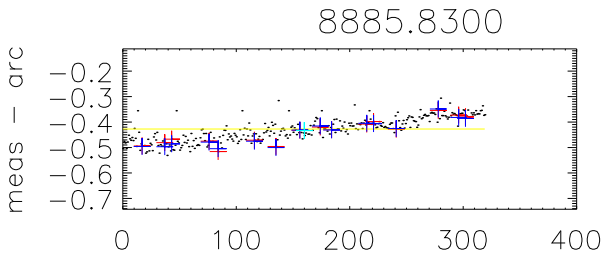

7571.7500
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

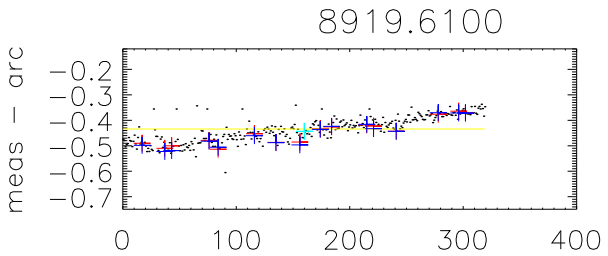

7794.1200
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

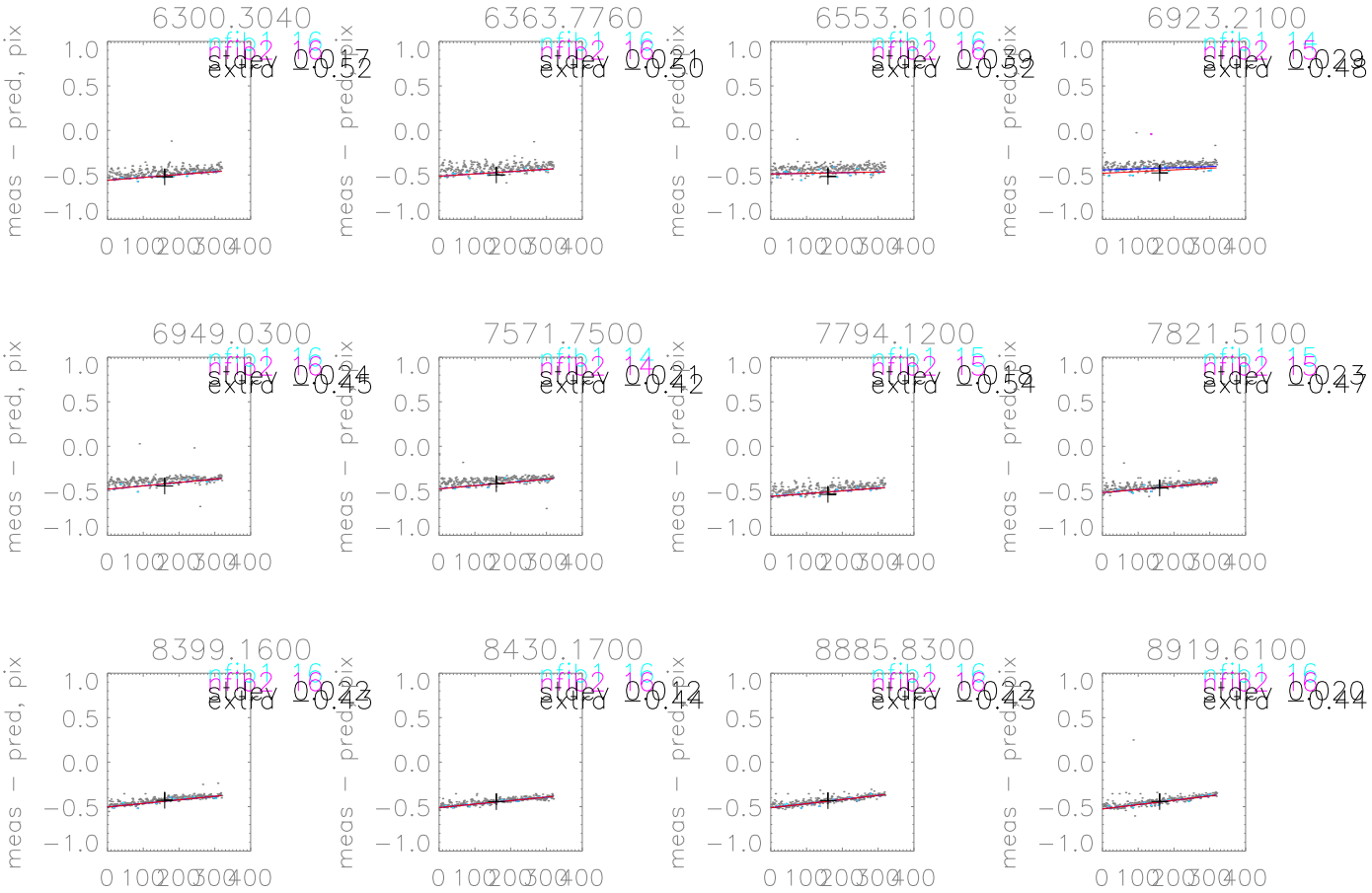

7821.5100
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

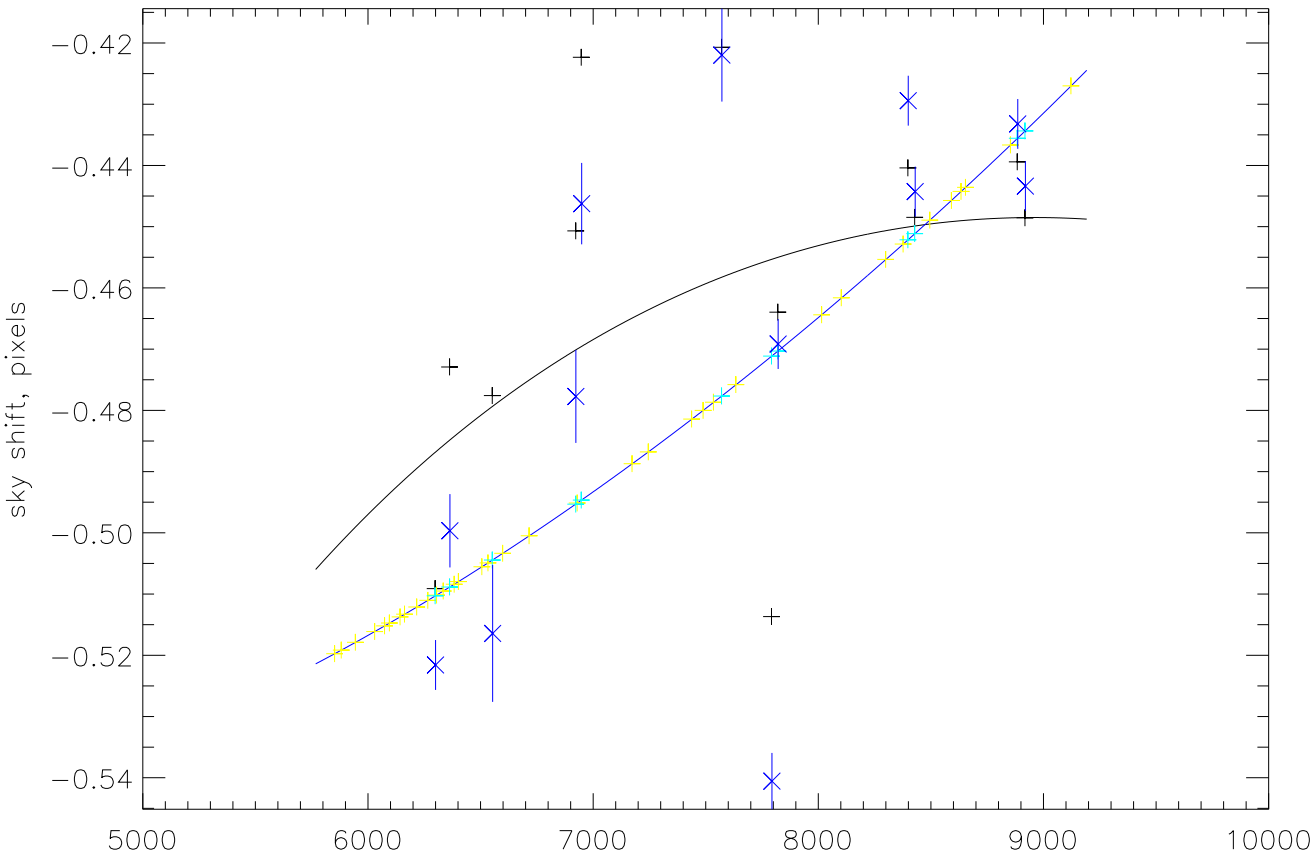

8399.1600
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

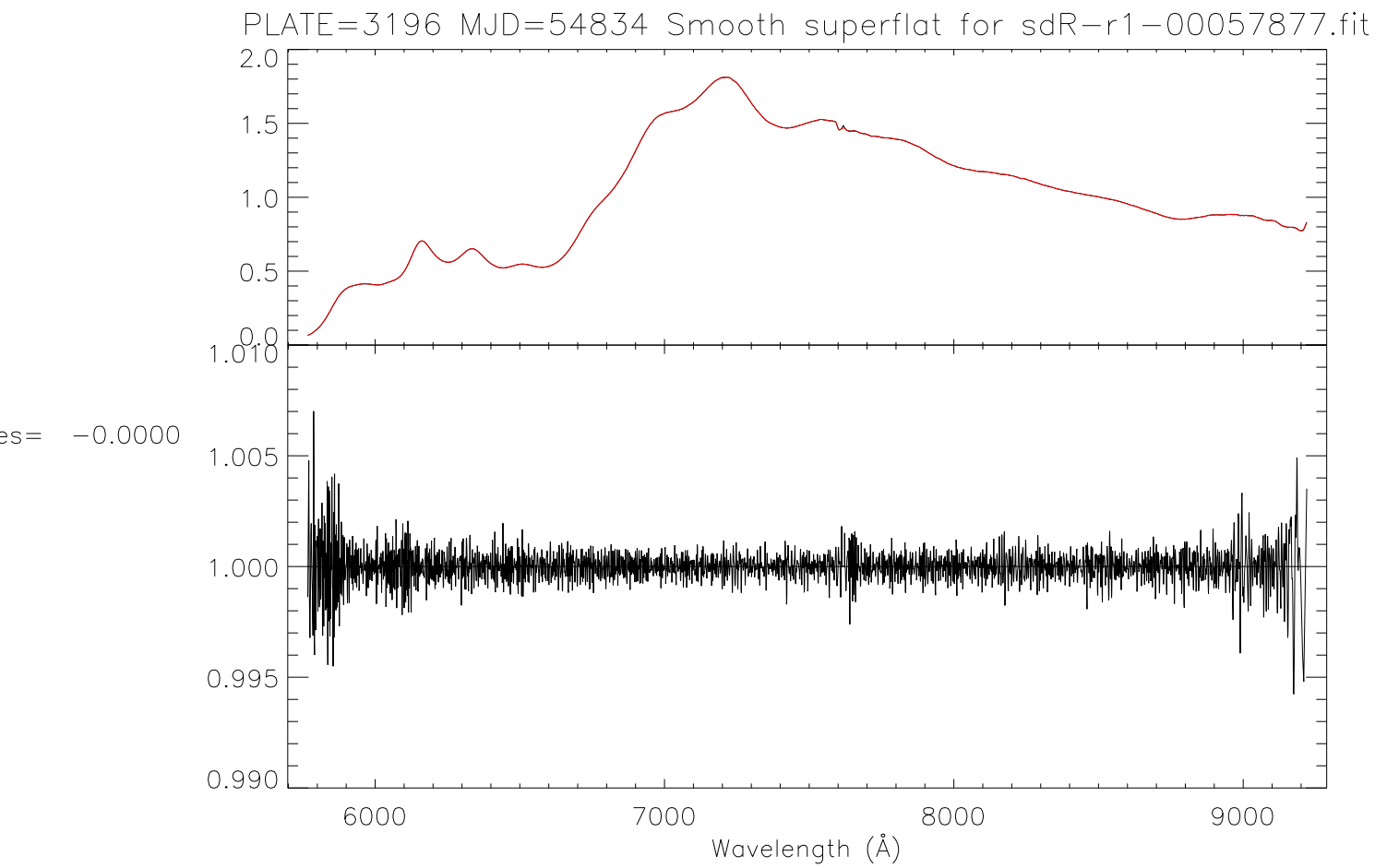

8430.1700
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

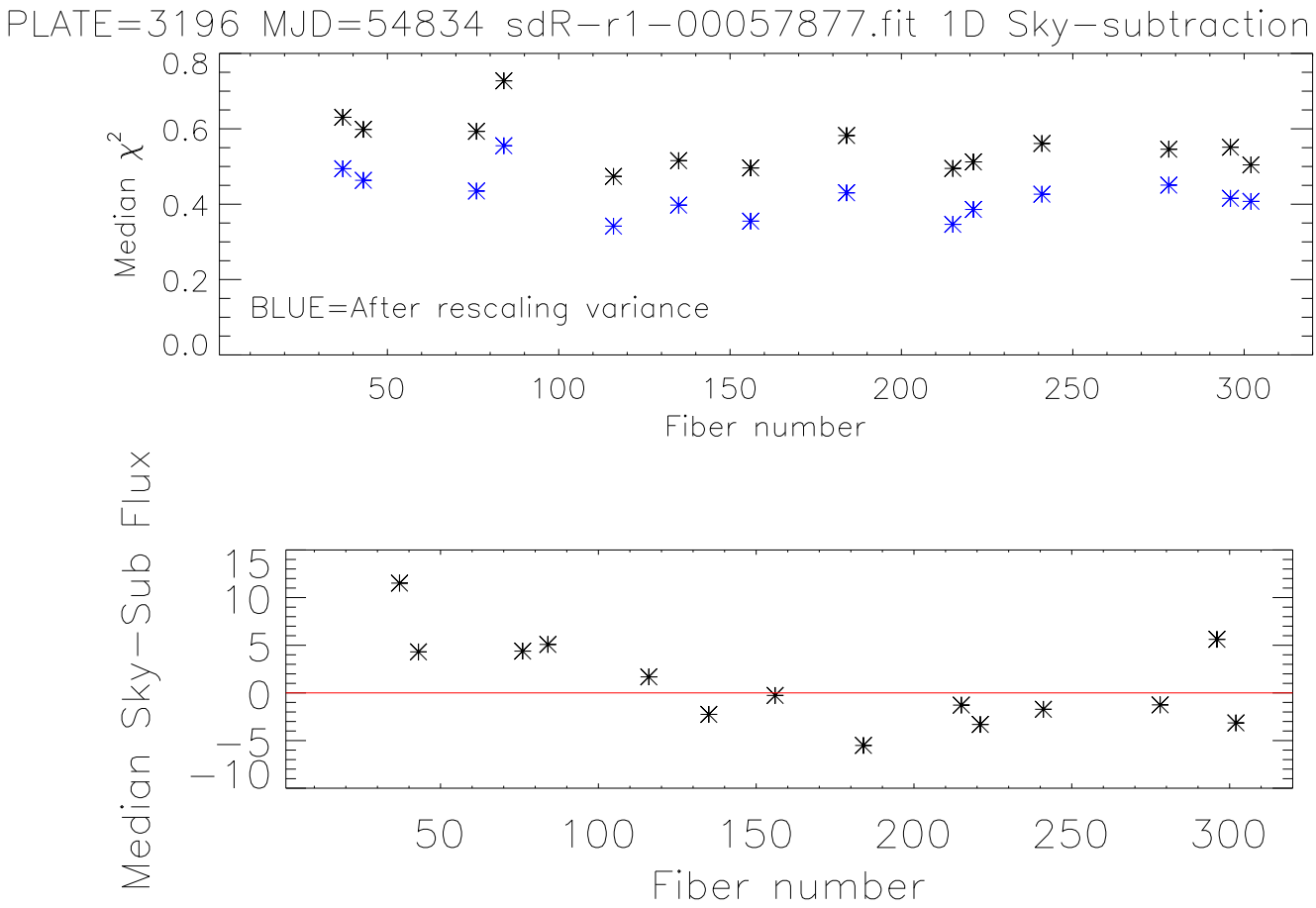

8885.8300
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

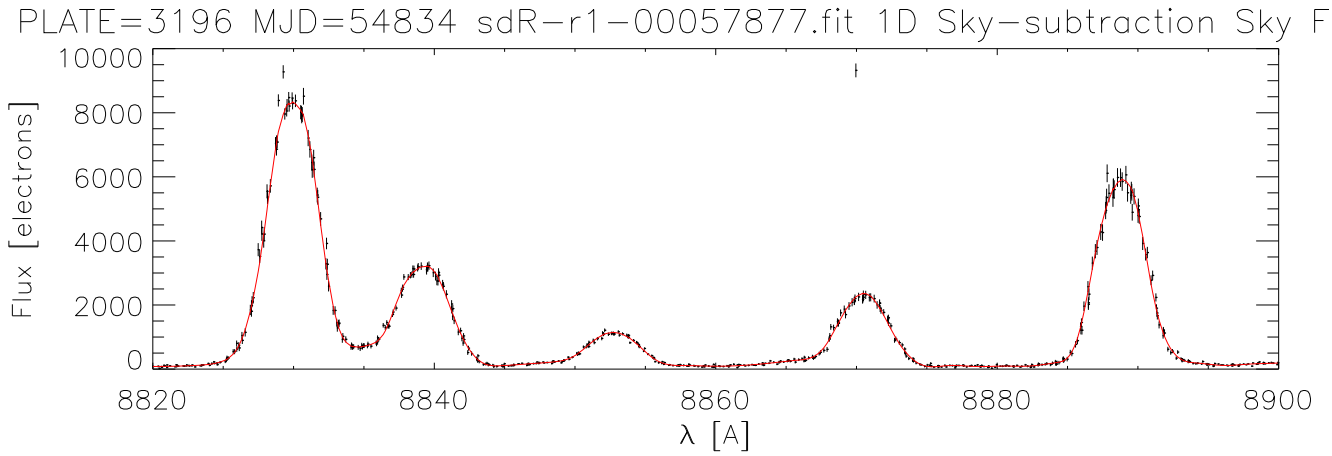

8919.6100
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

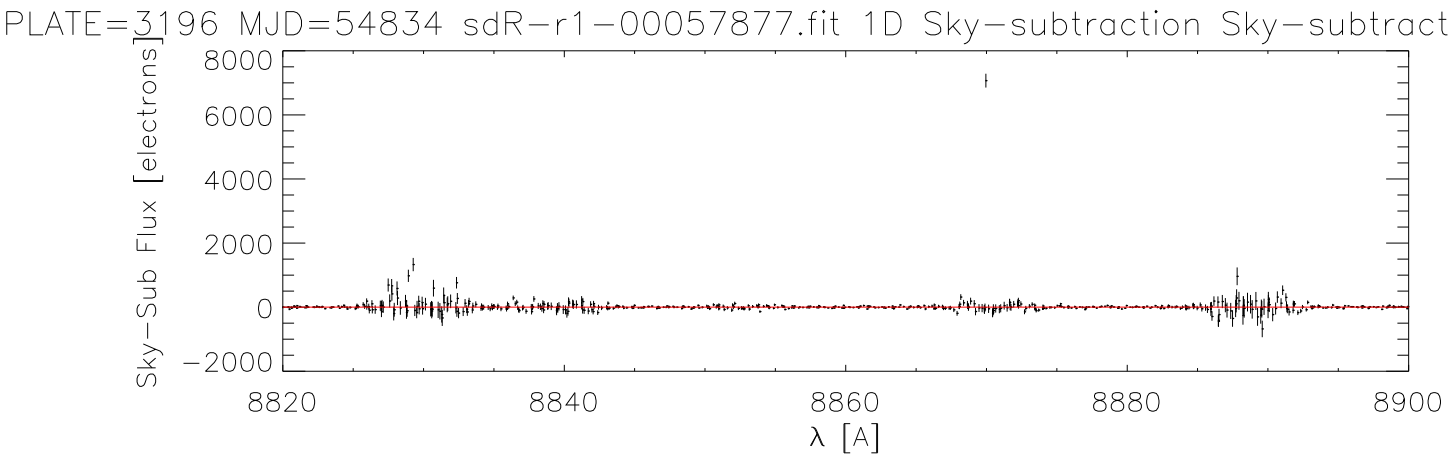

6300.3040
mfib1 16
mfib2 16
stdev 0.017
extra 0.52
6363.7760
mfib1 16
mfib2 16
stdev 0.021
extra 0.50
6553.6100
mfib1 16
mfib2 16
stdev 0.039
extra 0.52
6923.2100
mfib1 14
mfib2 15
stdev 0.029
extra 0.48
6949.0300
mfib1 16
mfib2 16
stdev 0.024
extra 0.45
7571.7500
mfib1 14
mfib2 14
stdev 0.021
extra 0.42
7794.1200
mfib1 15
mfib2 15
stdev 0.018
extra 0.54
7821.5100
mfib1 15
mfib2 15
stdev 0.023
extra 0.47
8399.1600
mfib1 16
mfib2 16
stdev 0.022
extra 0.43
8430.1700
mfib1 16
mfib2 16
stdev 0.012
extra 0.44
8885.8300
mfib1 16
mfib2 16
stdev 0.022
extra 0.43
8919.6100
mfib1 16
mfib2 16
stdev 0.020
extra 0.44
meas − pred, pix
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

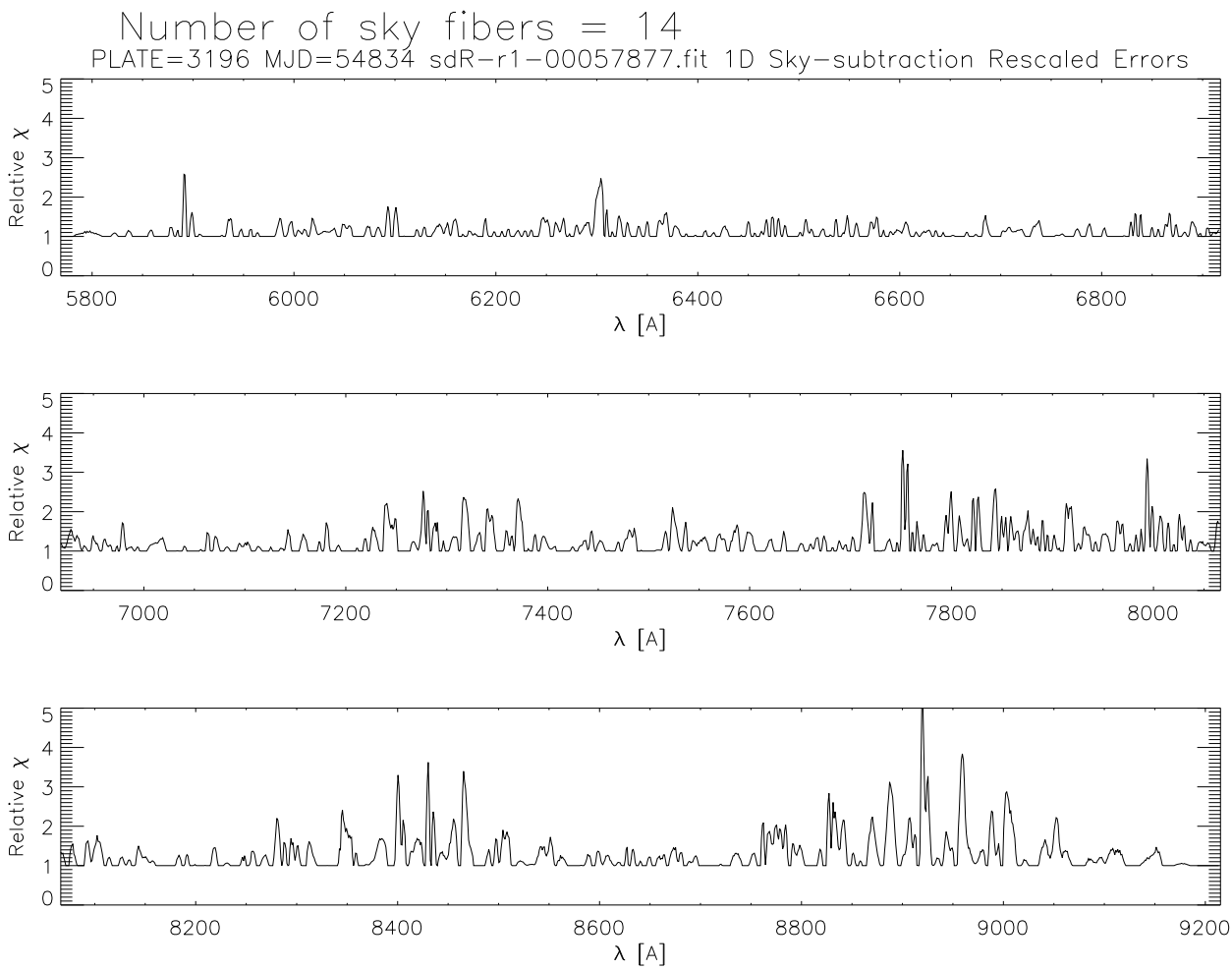

−0.42
−0.44
−0.46
−0.48
−0.50
−0.52
−0.54
sky shift, pixels
5000
6000
7000
8000
9000
10000

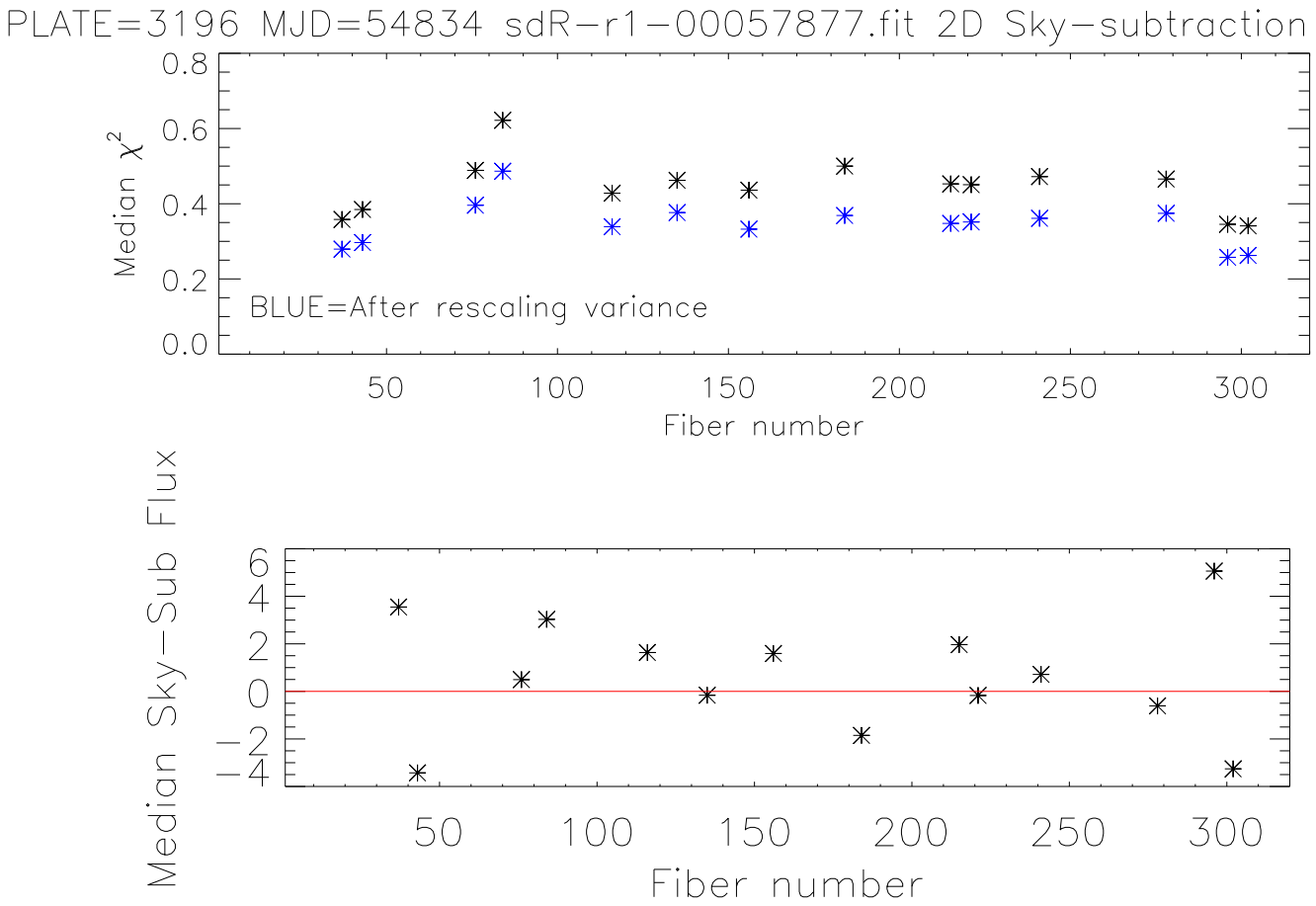

PLATE=3196 MJD=54834 Smooth superflat for sdR-r1-00057877.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= -0.0000
6000
7000
8000
9000
Wavelength (Å)

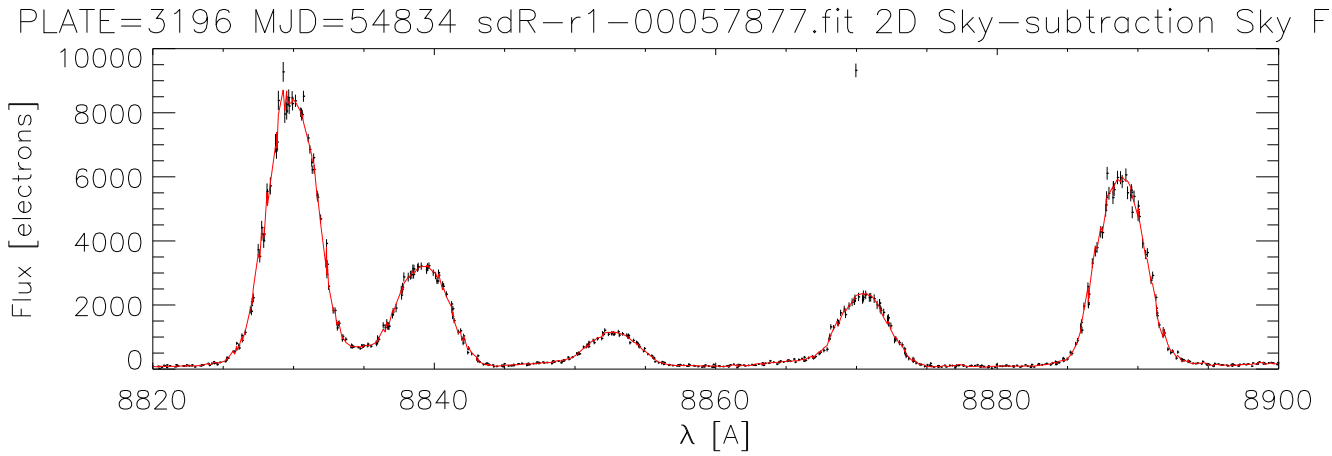

PLATE=3196 MJD=54834 sdR-r1-00057877.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
15
10
5
0
-5
-10
50
100
150
200
250
300
Fiber number

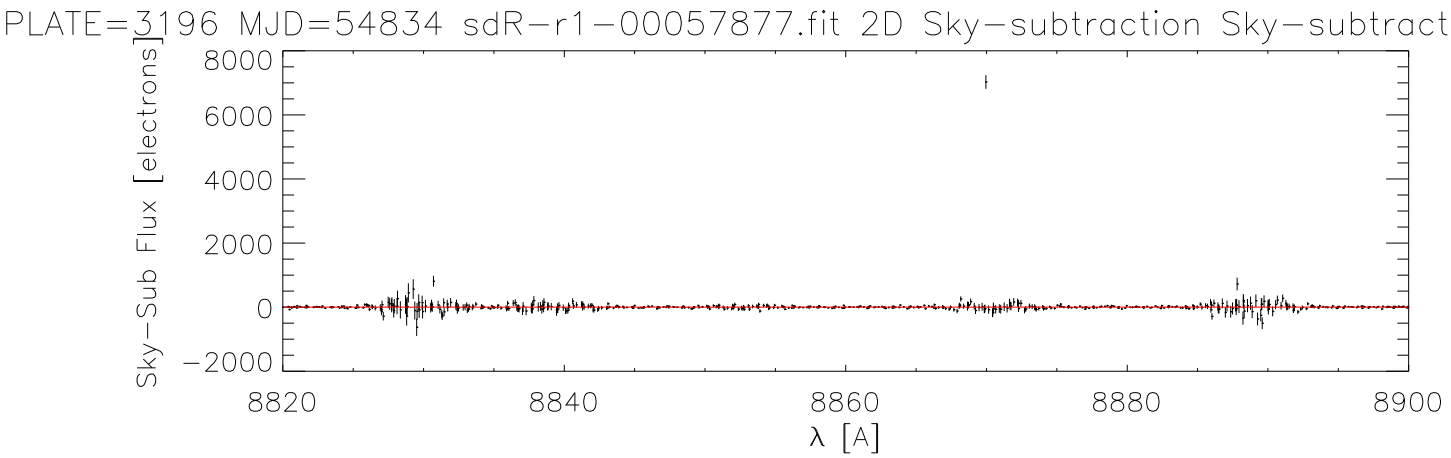

PLATE=3196 MJD=54834 sdR-r1-00057877.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

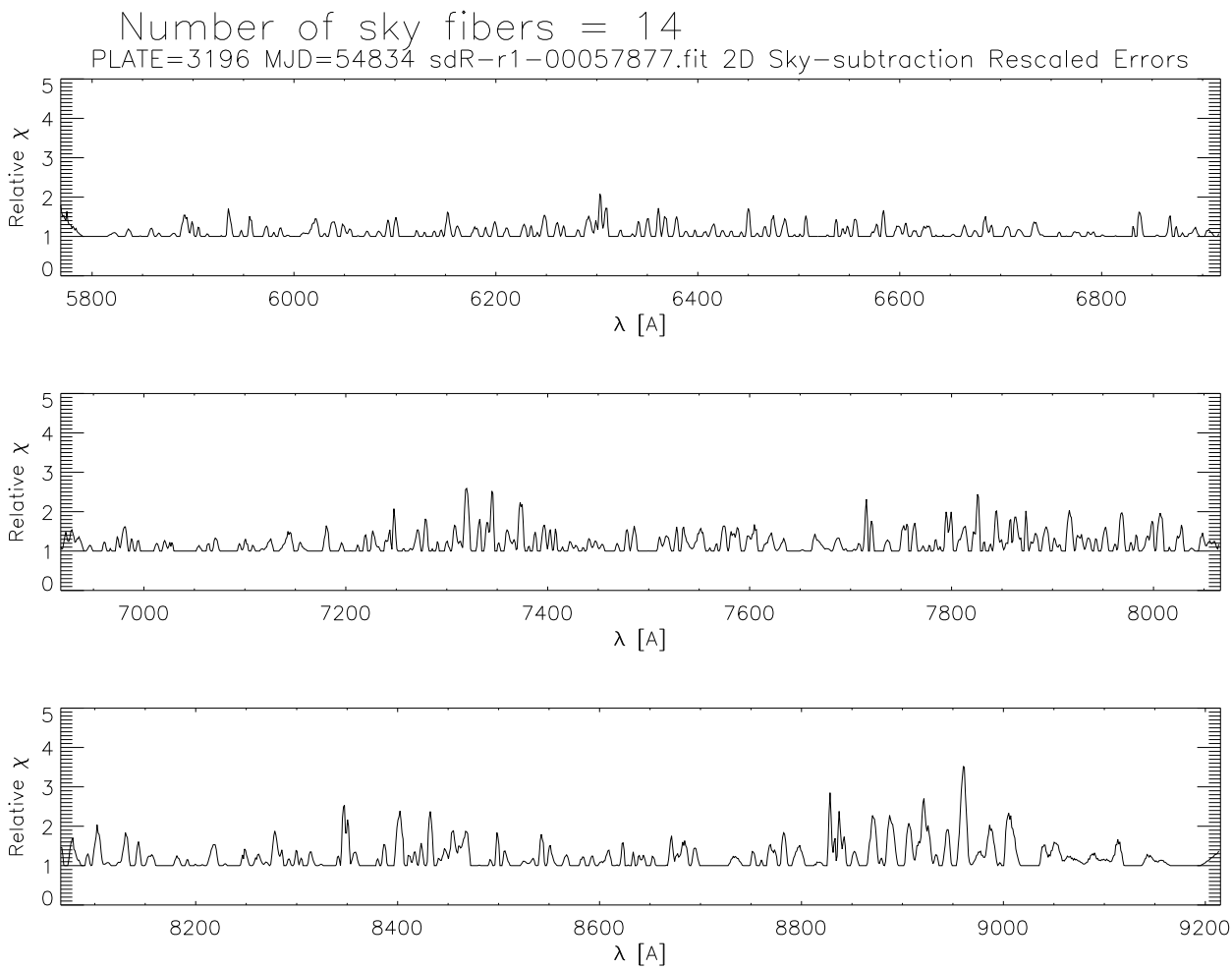

PLATE=3196 MJD=54834 sdR-r1-00057877.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
8000
6000
4000
2000
0
-2000
8820
8840
8860
8880
8900
λ [A]

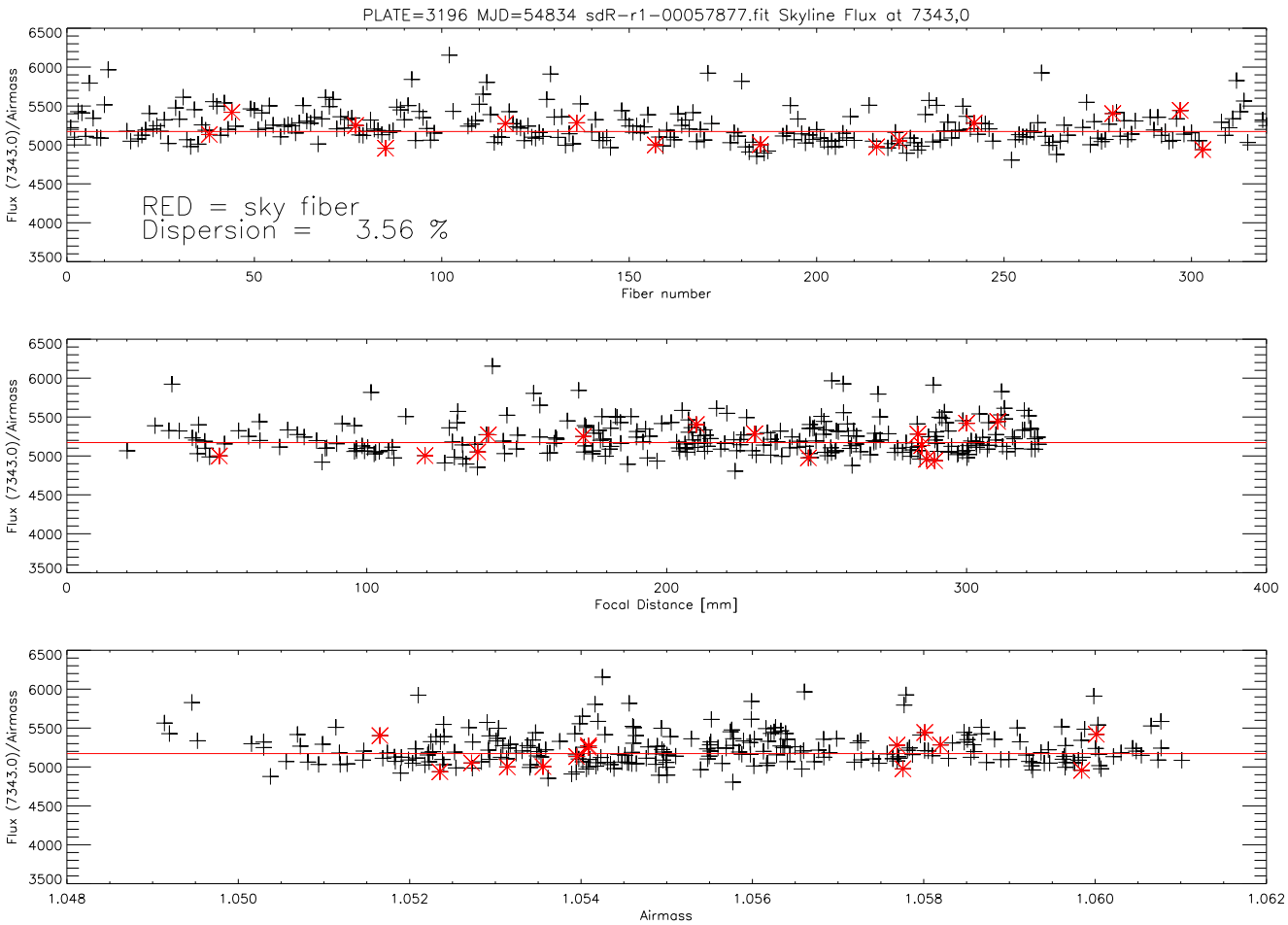

Number of sky fibers = 14
PLATE=3196 MJD=54834 sdR-r1-00057877.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

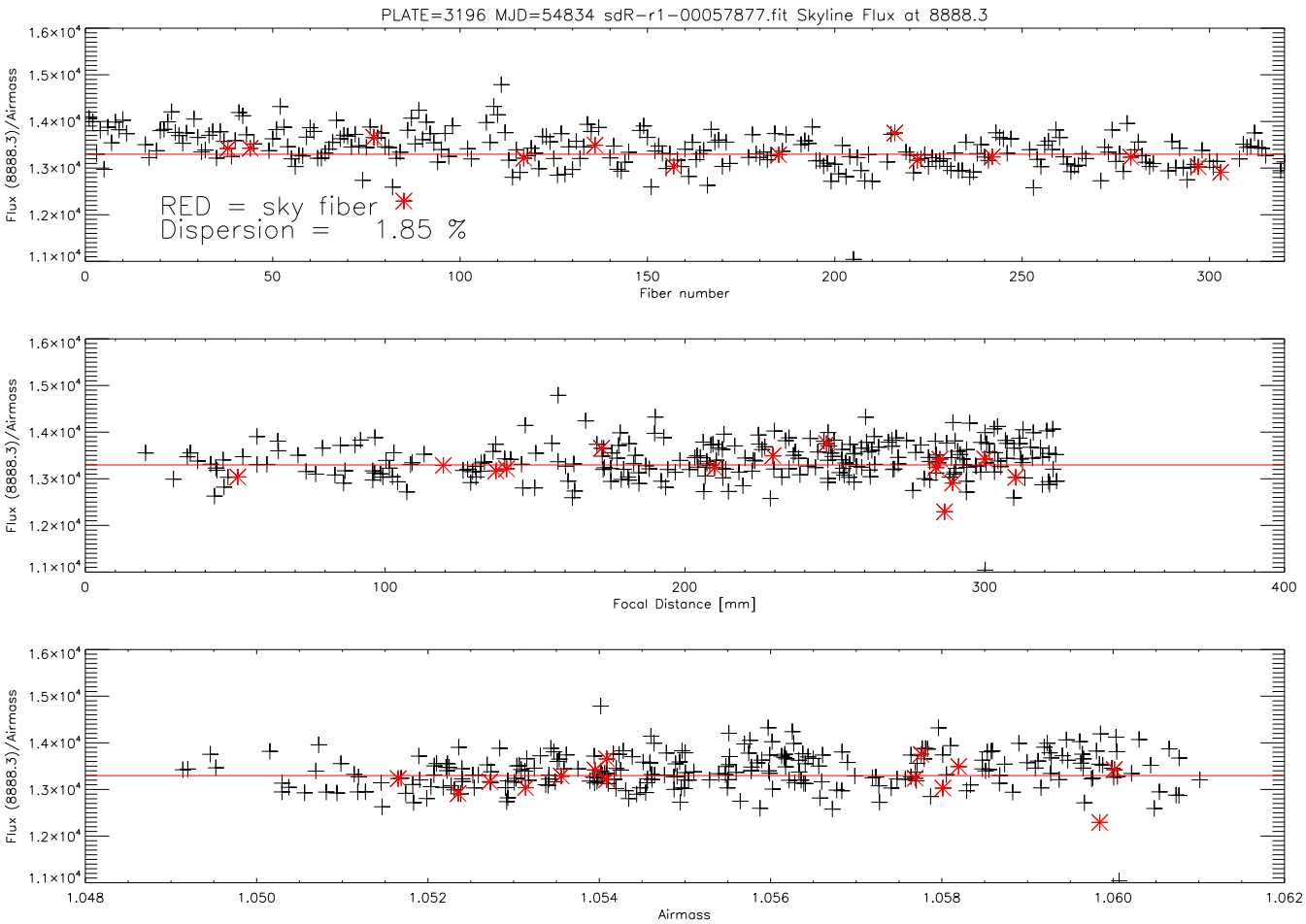

PLATE=3196 MJD=54834 sdR-r1-00057877.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

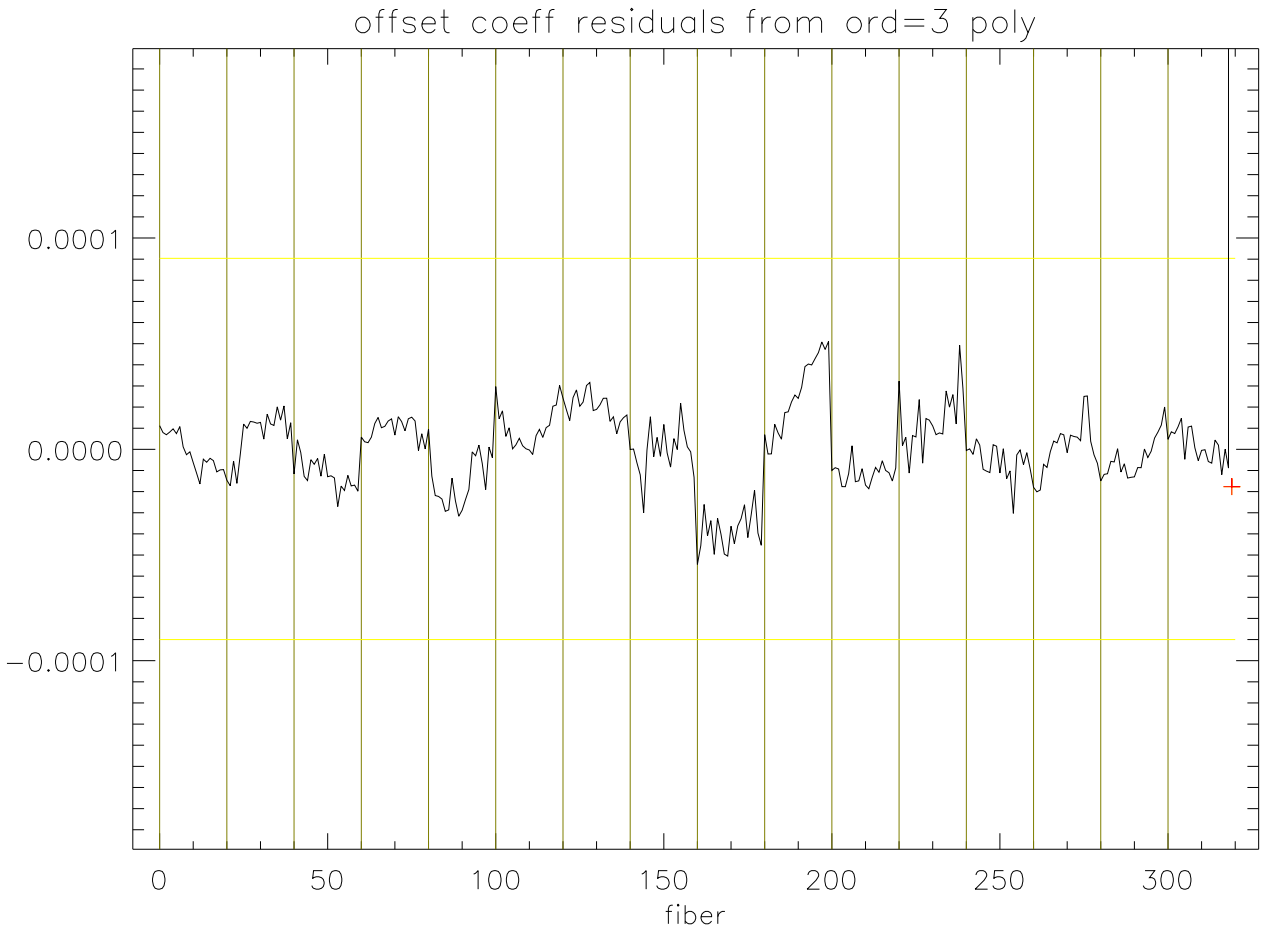

PLATE=3196 MJD=54834 sdR-r1-00057877.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

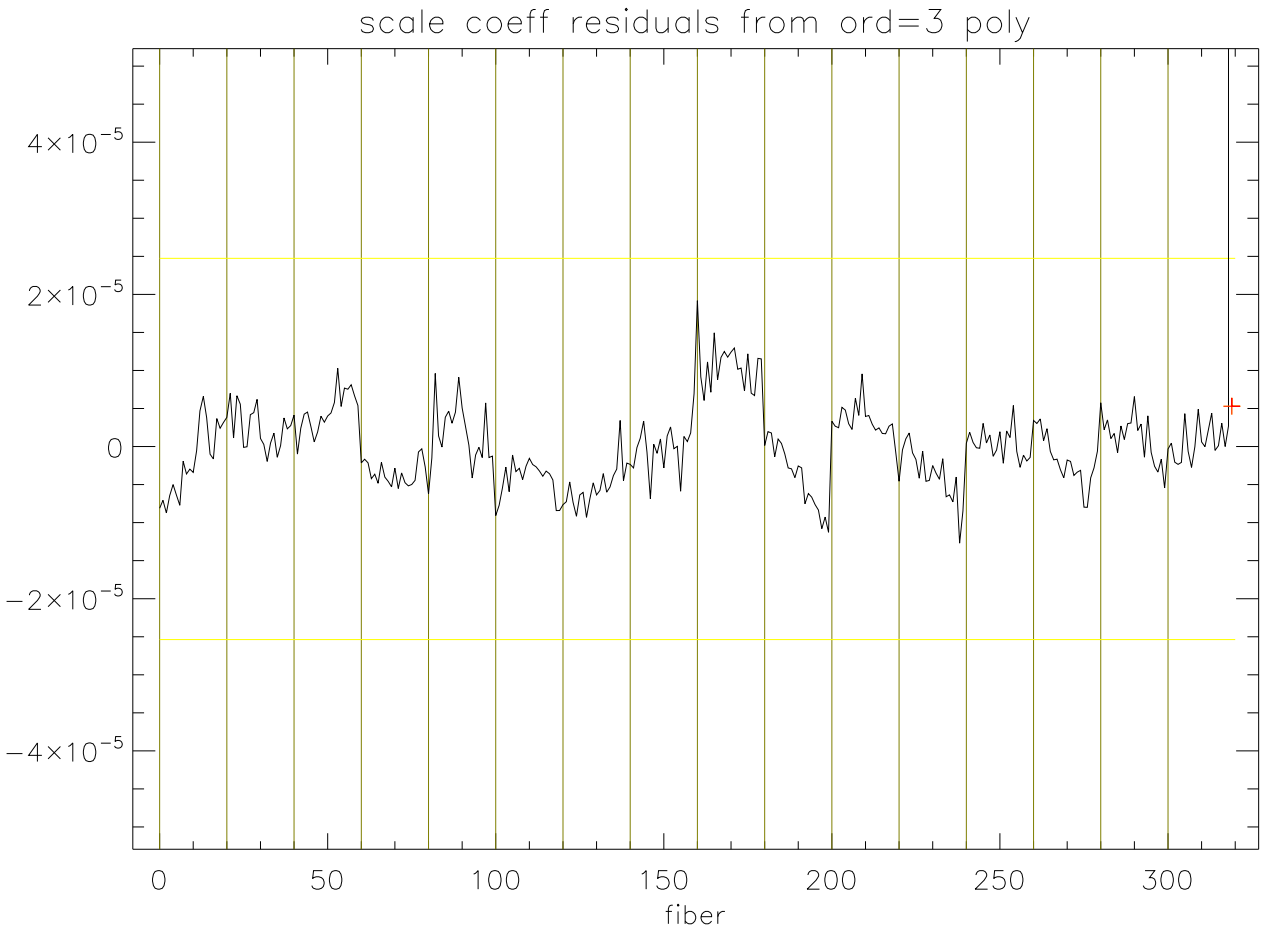

PLATE=3196 MJD=54834 sdR-r1-00057877.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
8000
6000
4000
2000
0
-2000
8820
8840
8860
8880
8900
λ [A]

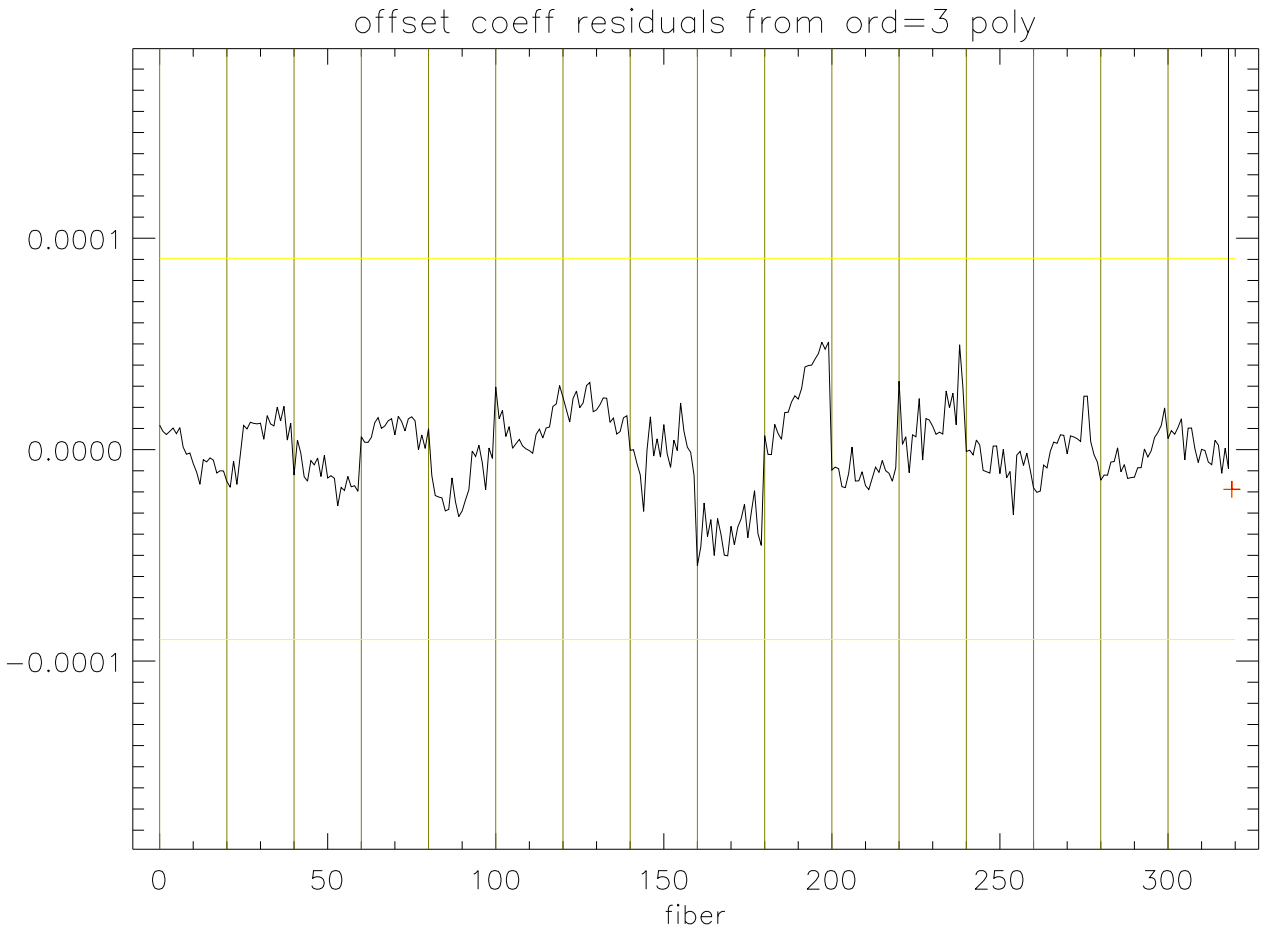

Number of sky fibers = 14
PLATE=3196 MJD=54834 sdR-r1-00057877.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

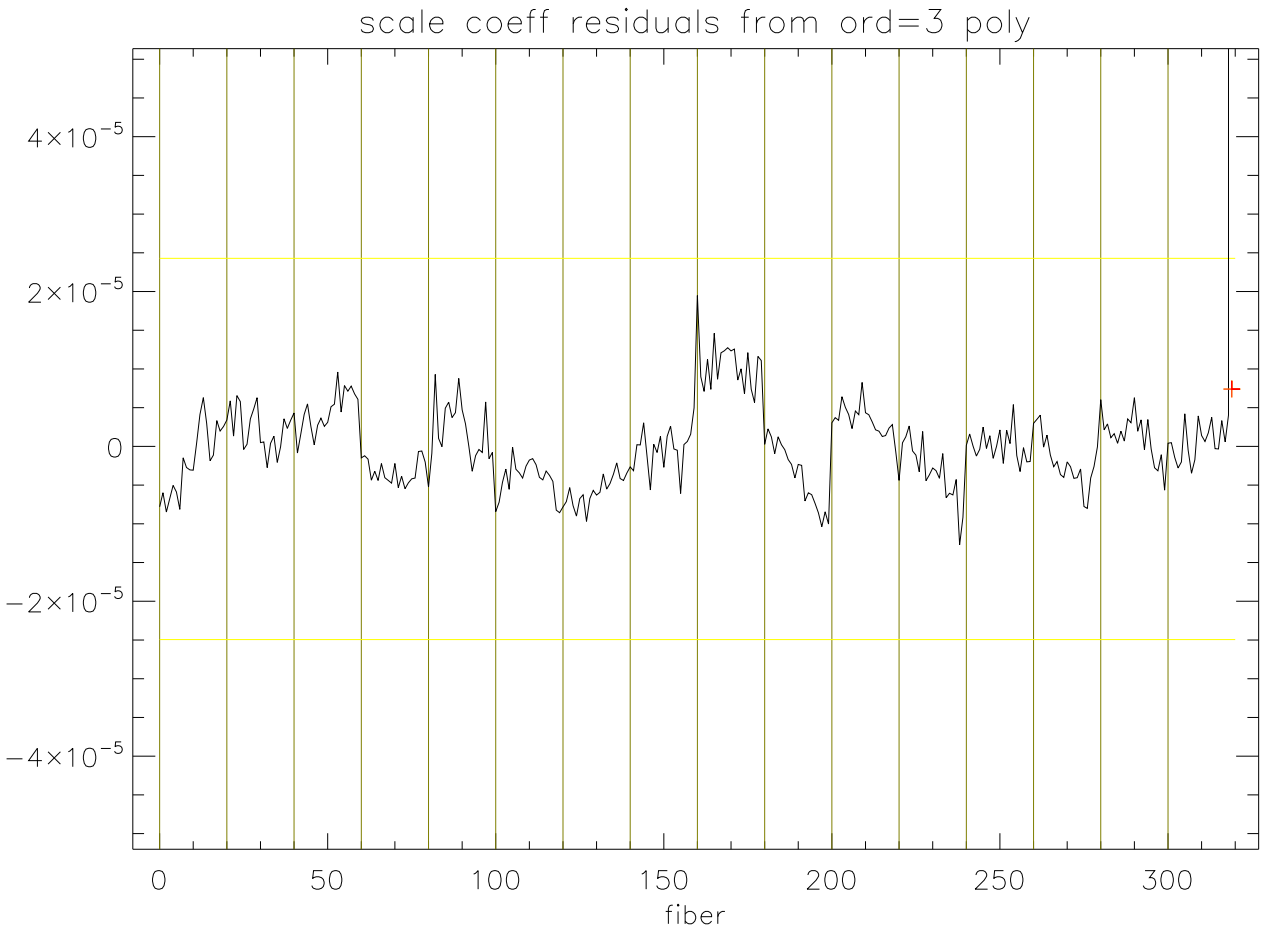

PLATE=3196 MJD=54834 sdR-r1-00057877.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 3.56 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

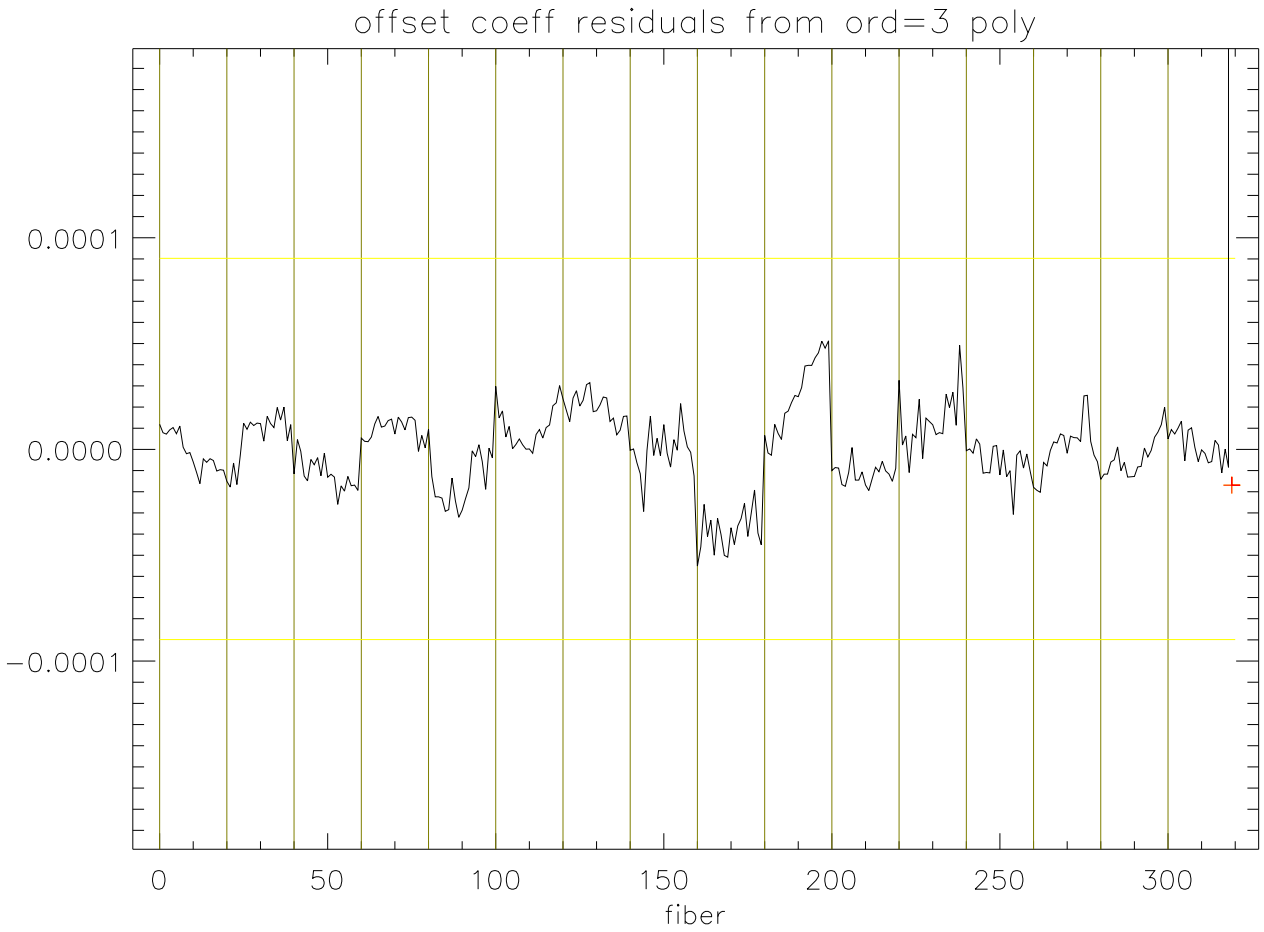

PLATE=3196 MJD=54834 sdR-r1-00057877.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.85 %
Fiber number
Focal Distance [mm]
Airmass

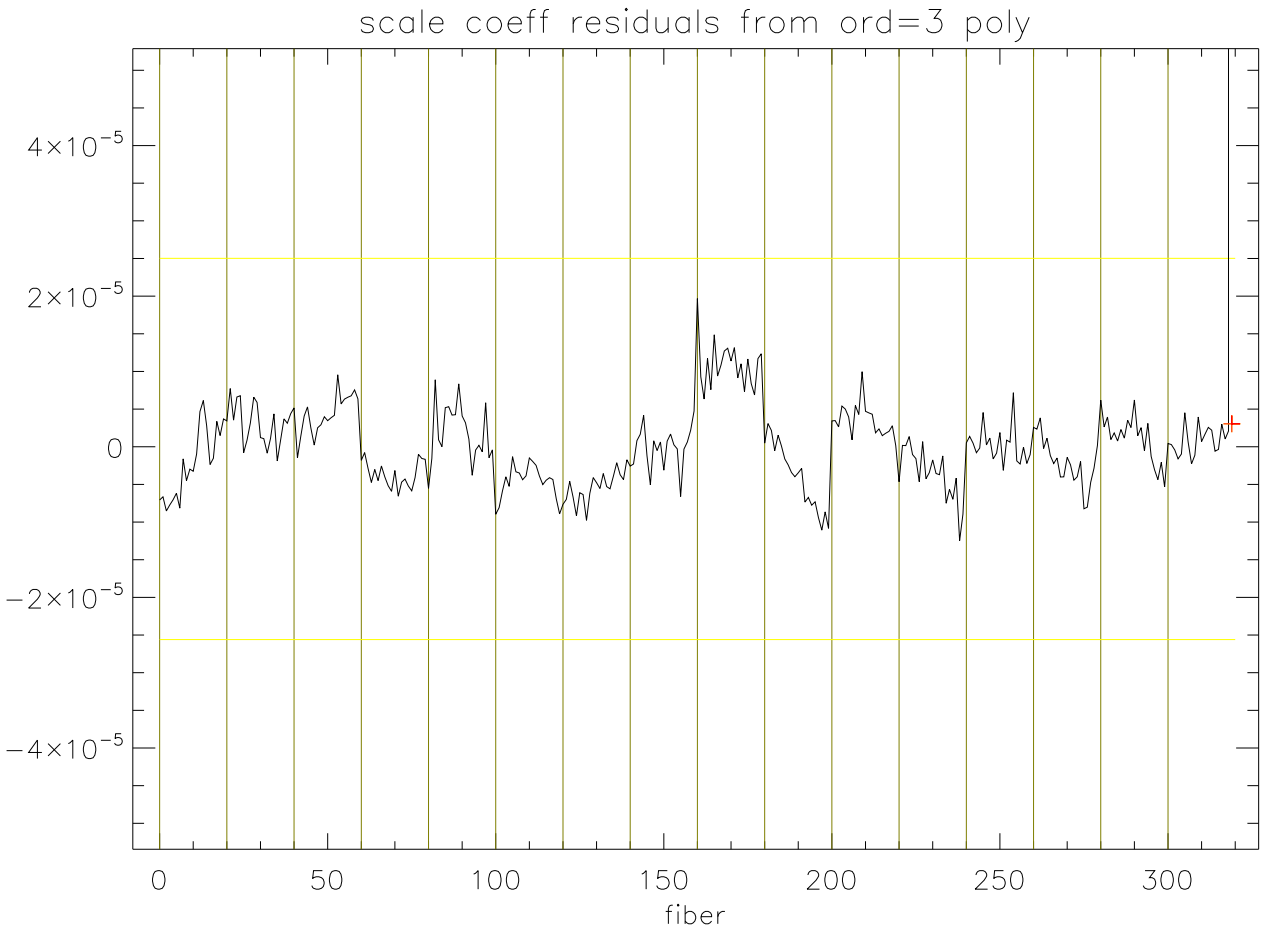

offset coeff residuals from ord=3 poly
0.0001
0.0000
−0.0001
0
50
100
150
200
250
300
fiber

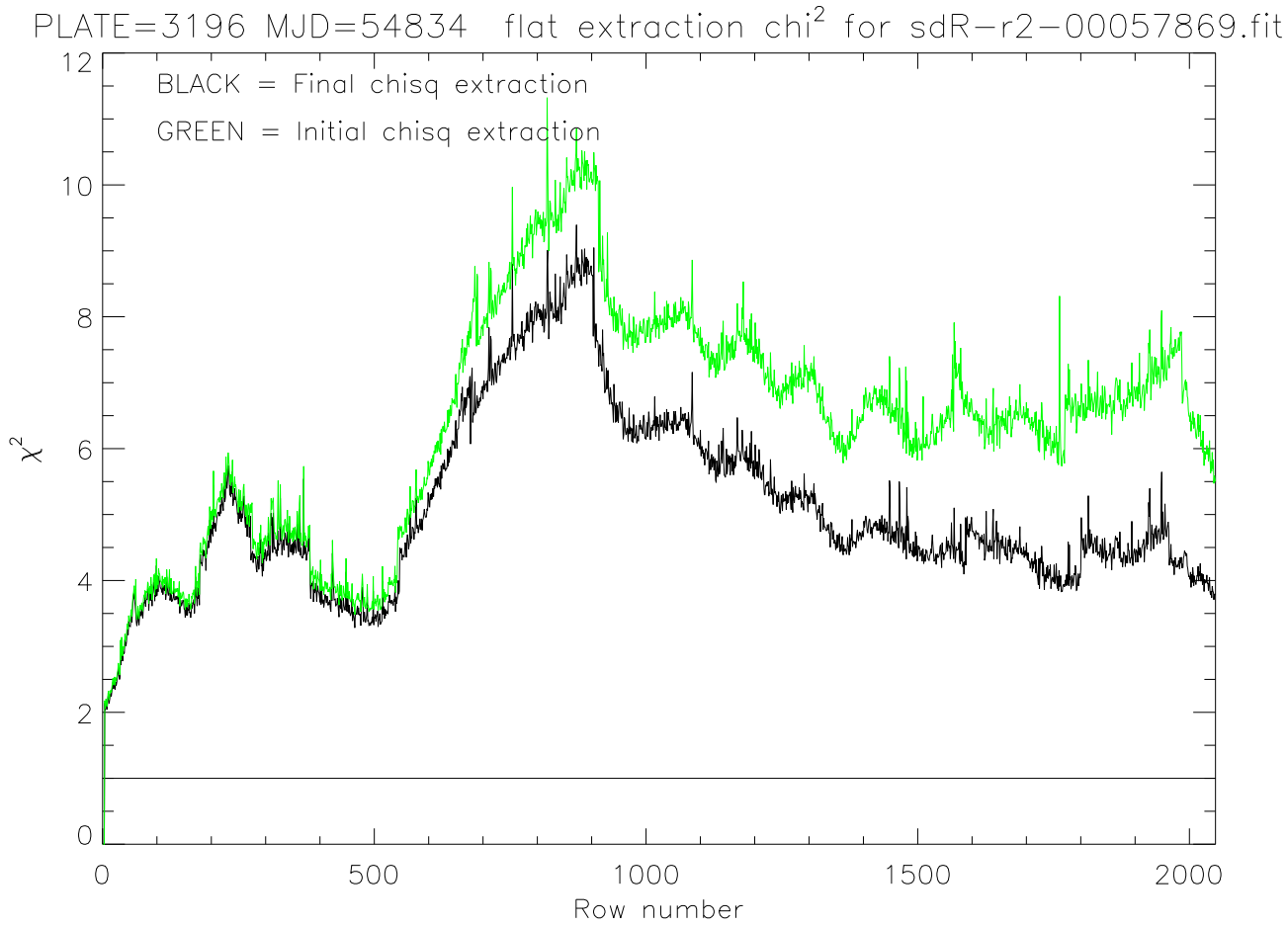

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

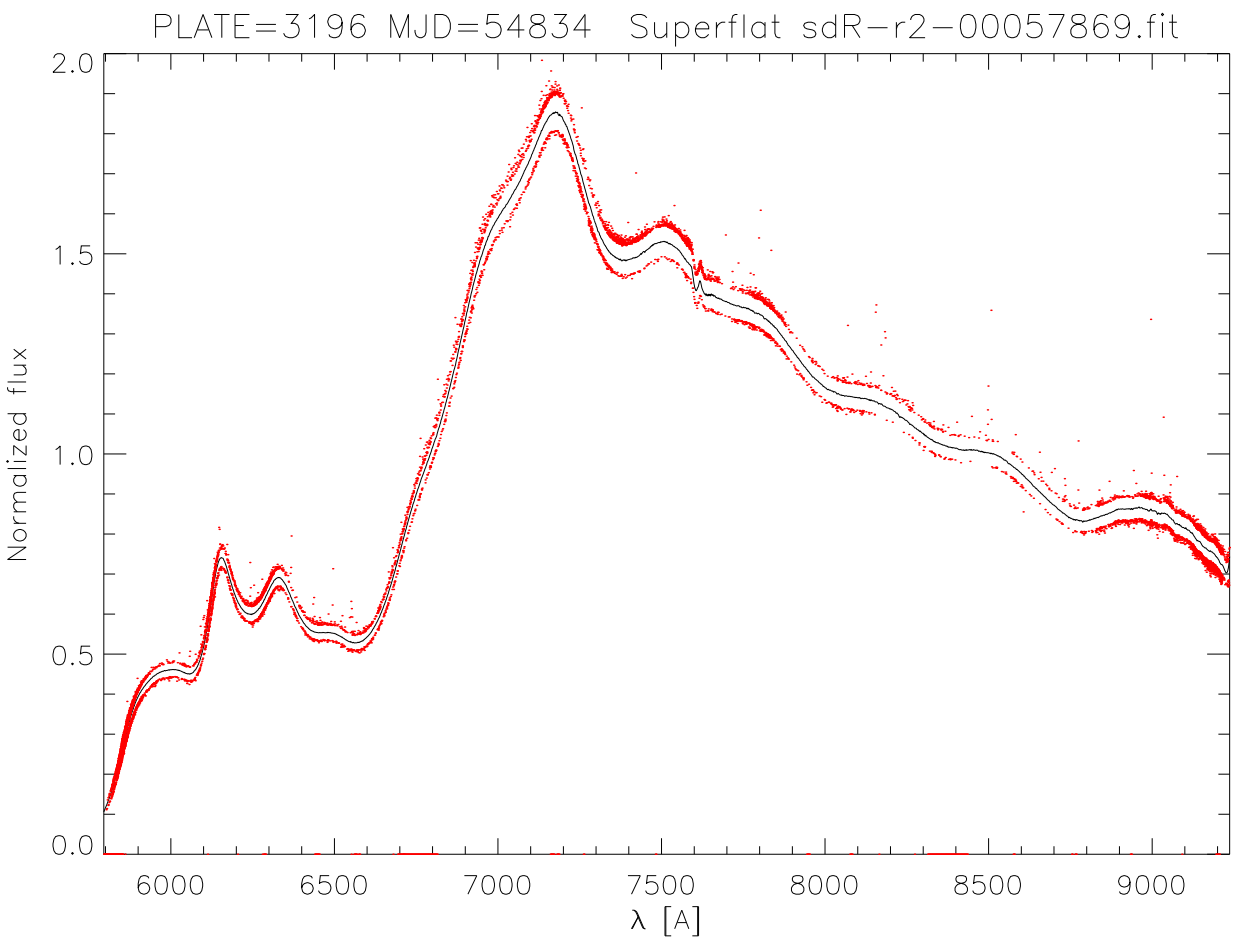

offset coeff residuals from ord=3 poly
0.0001
0.0000
−0.0001
0
50
100
150
200
250
300
fiber

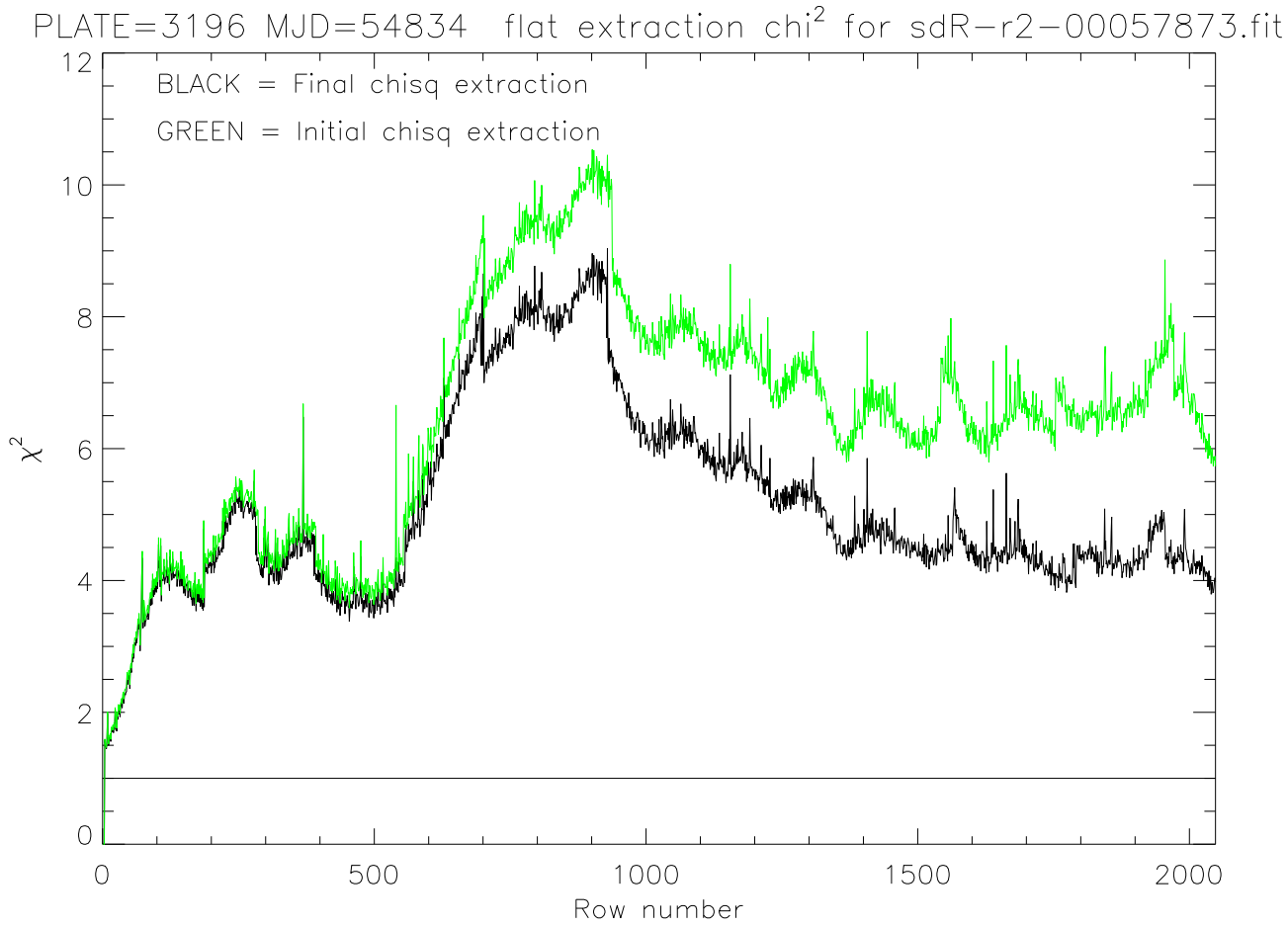

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

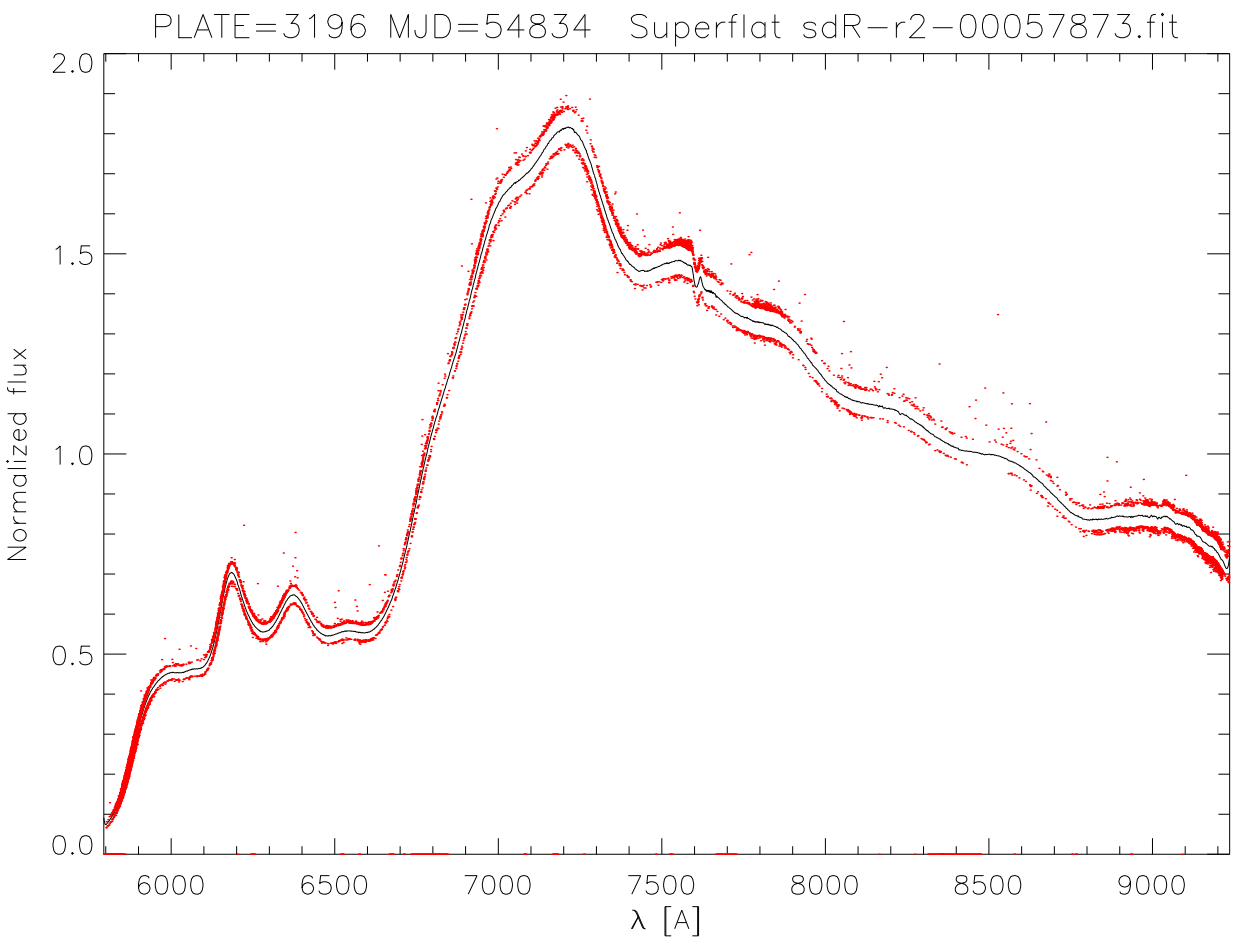

offset coeff residuals from ord=3 poly
0.0001
0.0000
−0.0001
0
50
100
150
200
250
300
fiber

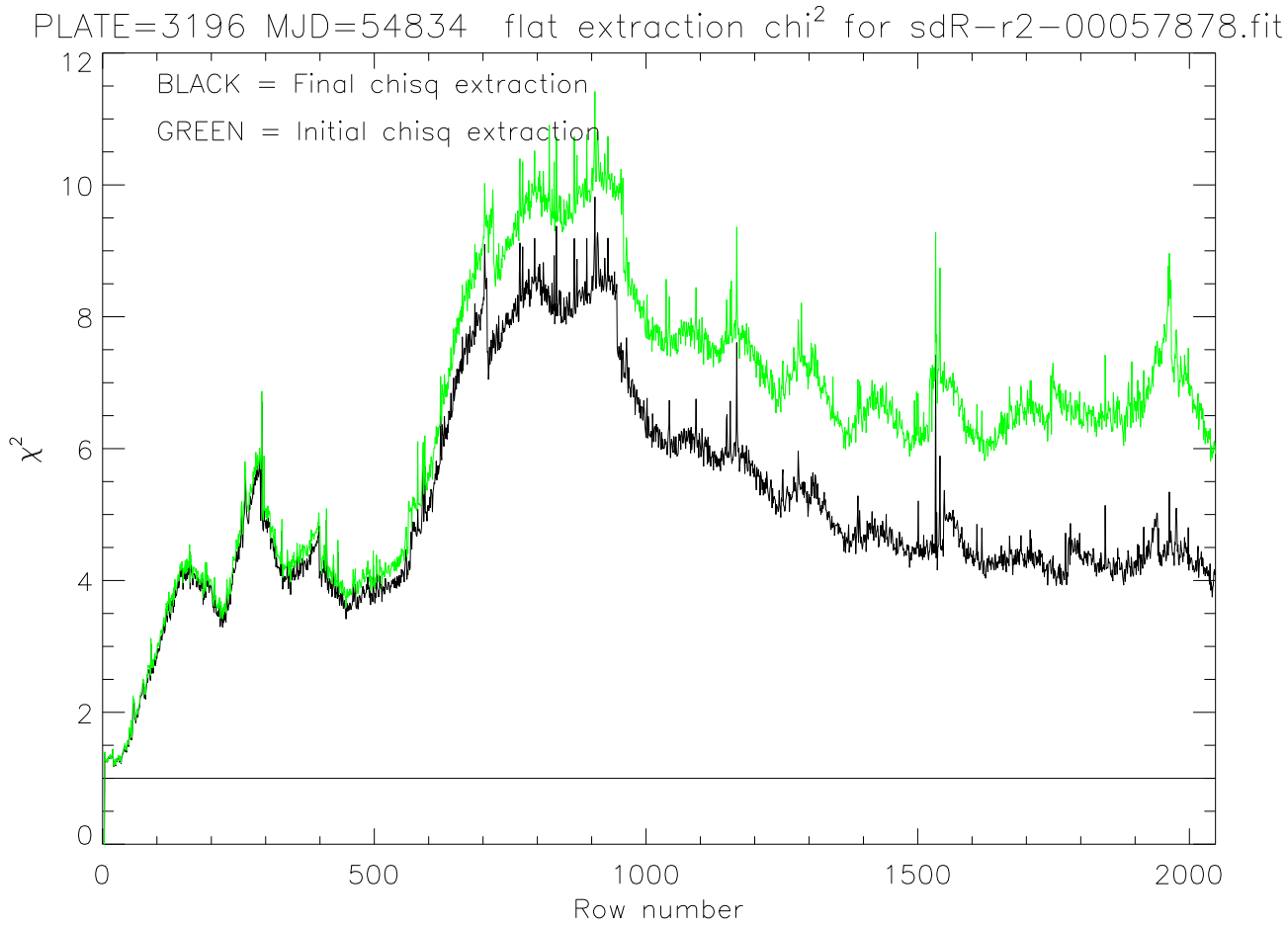

scale coeff residuals from ord=3 poly
4×10^-5
2×10^-5
0
−2×10^-5
−4×10^-5
0
50
100
150
200
250
300
fiber

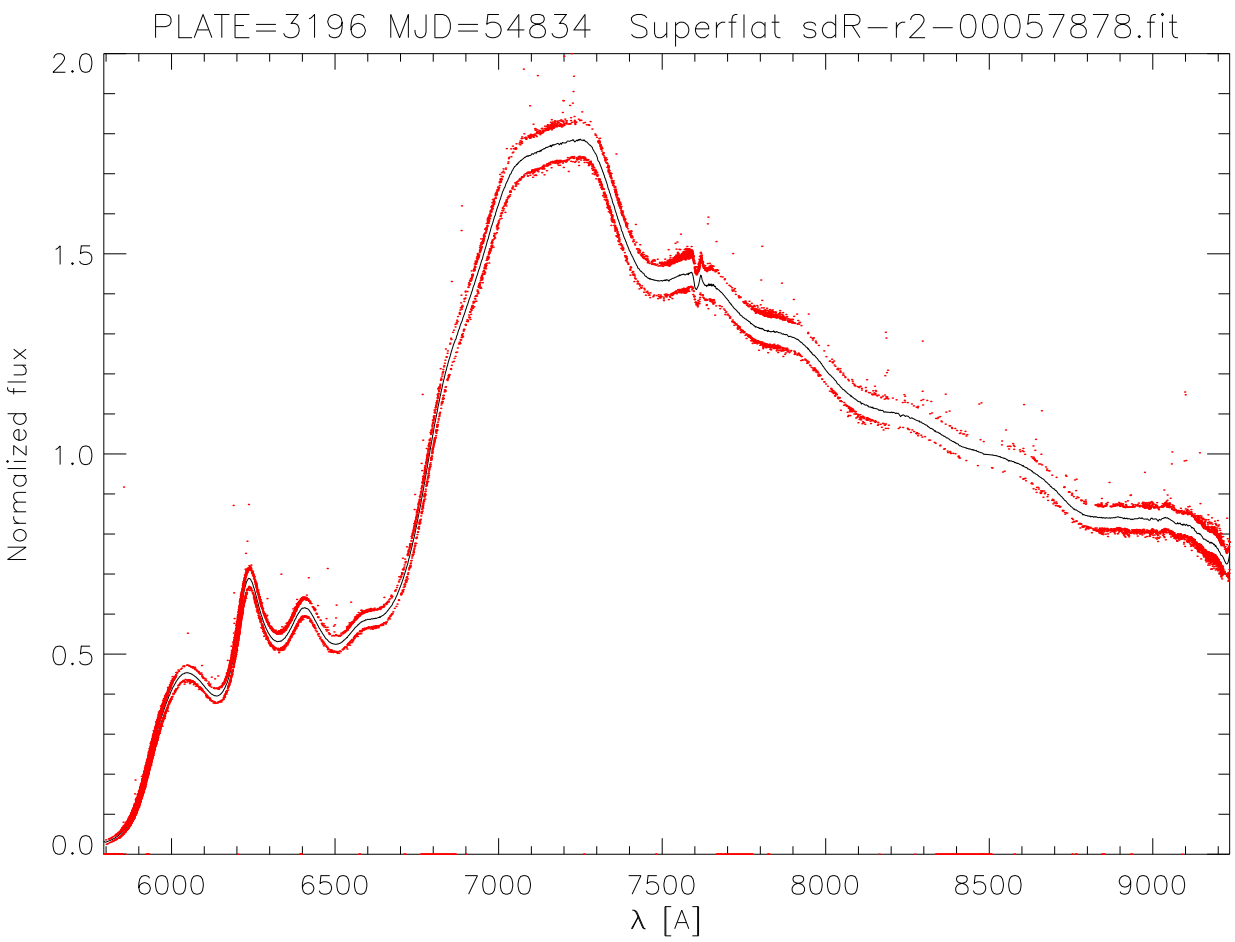

PLATE=3196 MJD=54834 flat extraction chi^2 for sdR−r2−00057869.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

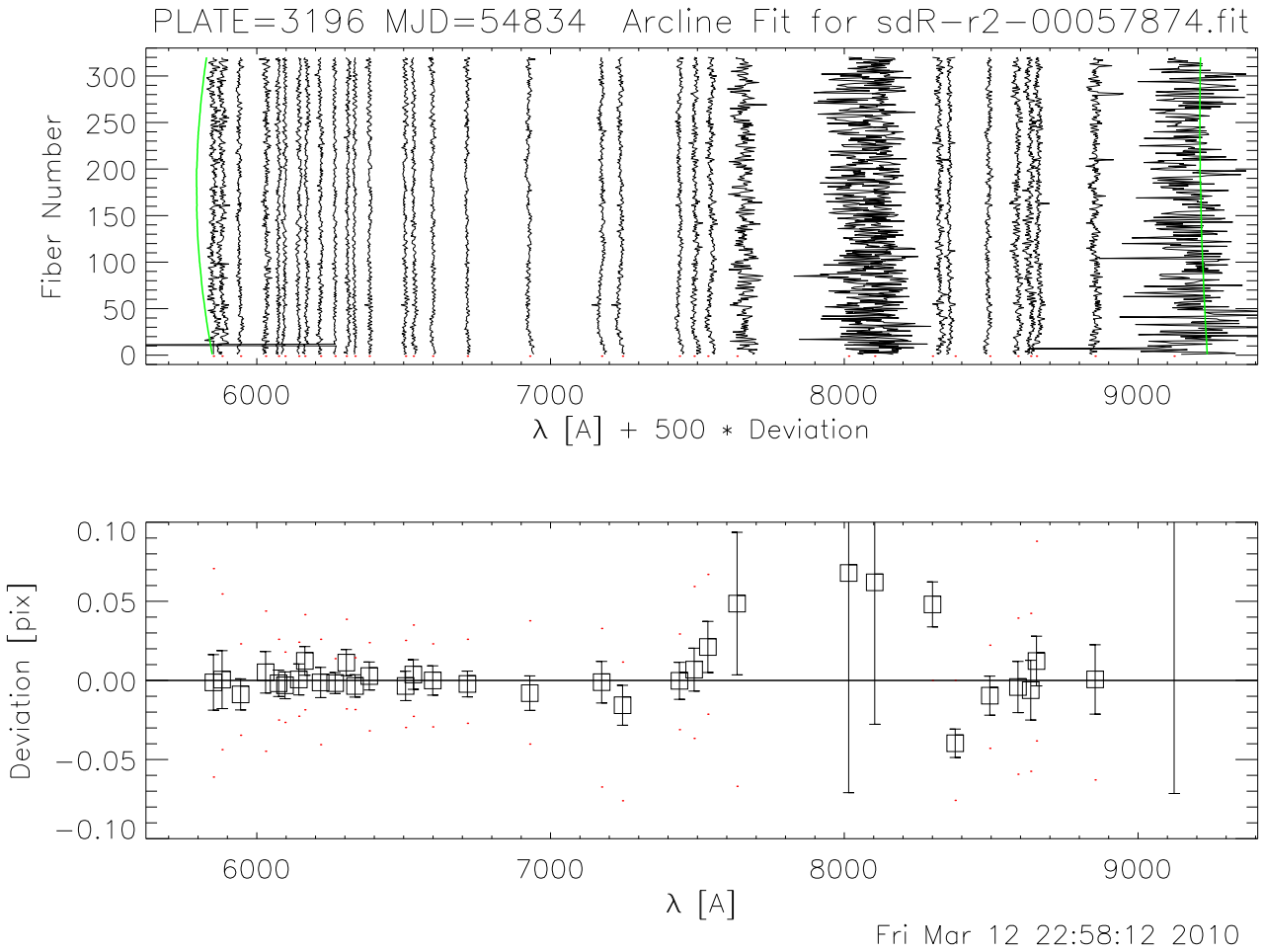

PLATE=3196 MJD=54834 Superflat sdR-r2-00057869.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

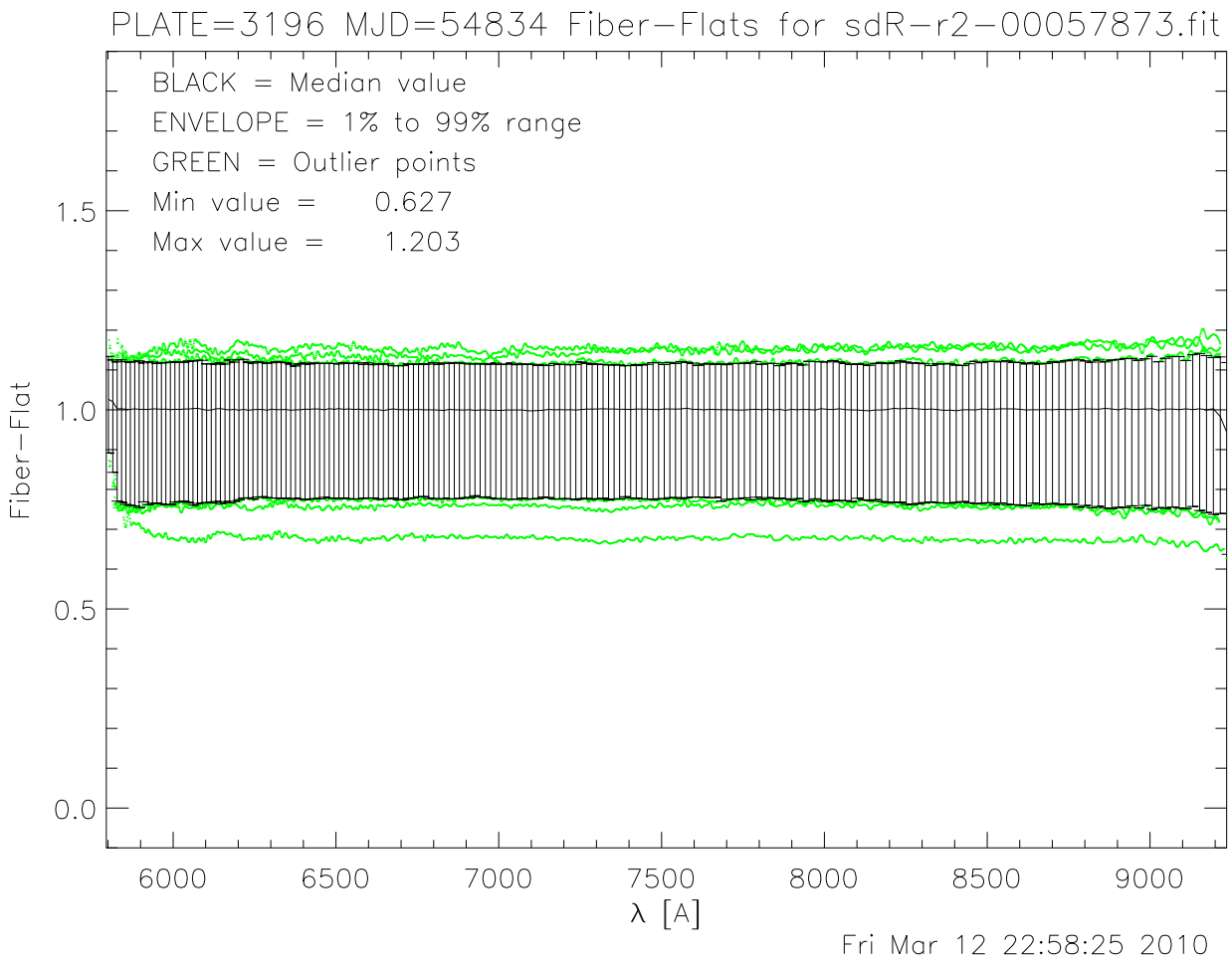

PLATE=3196 MJD=54834 flat extraction chi^2 for sdR−r2−00057873.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

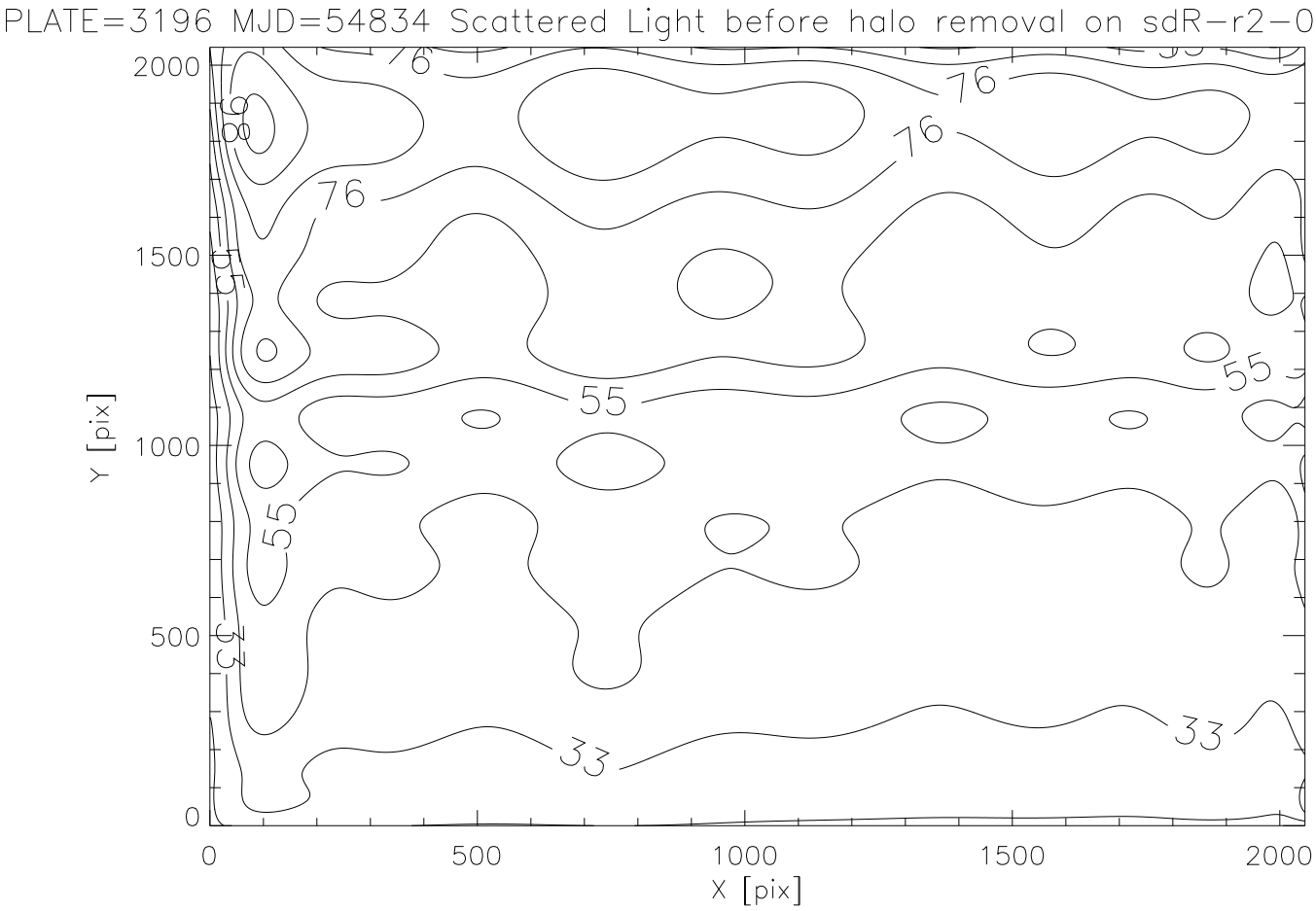

PLATE=3196 MJD=54834 Superflat sdR-r2-00057873.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

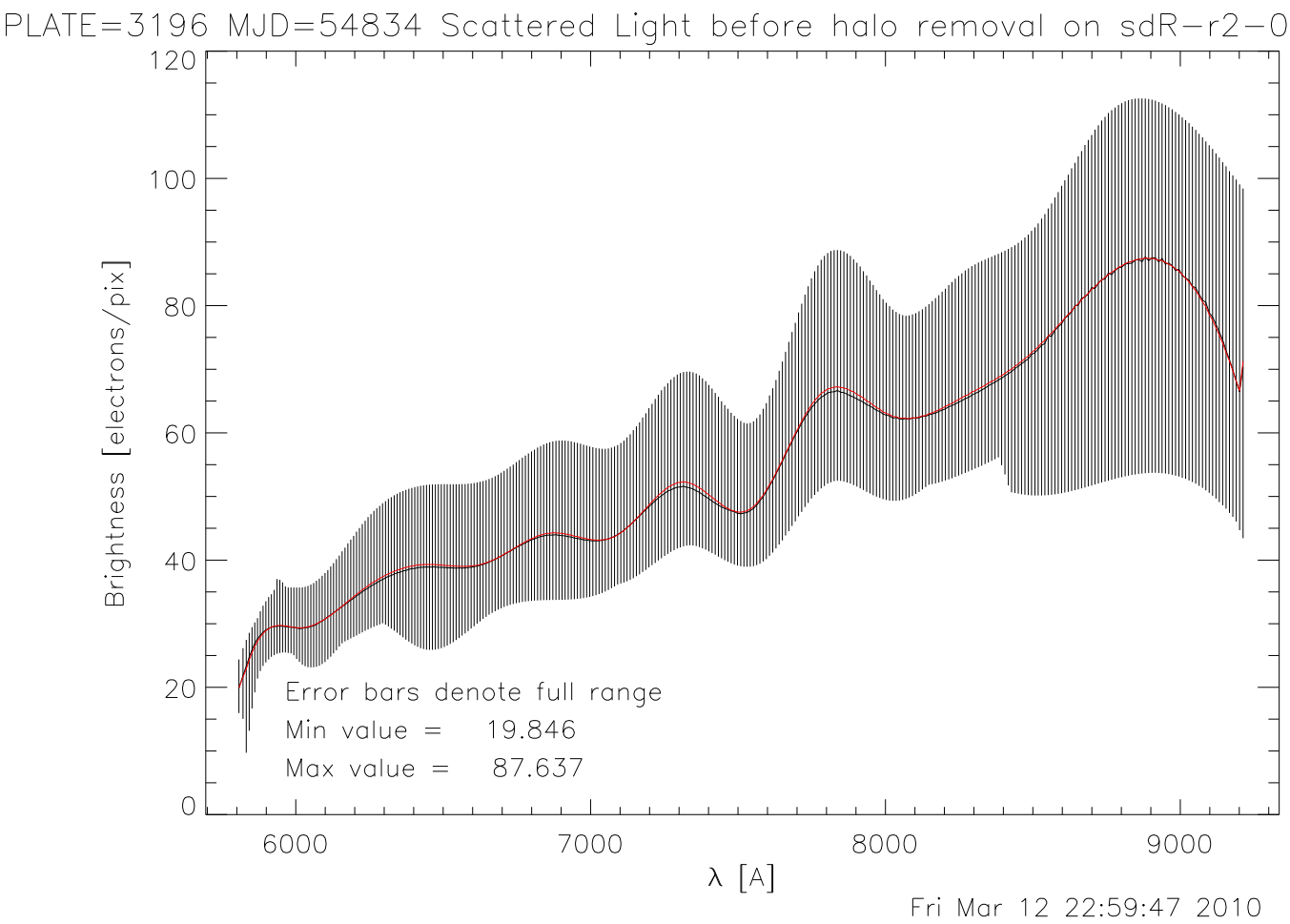

PLATE=3196 MJD=54834 flat extraction chi^2 for sdR−r2−00057878.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

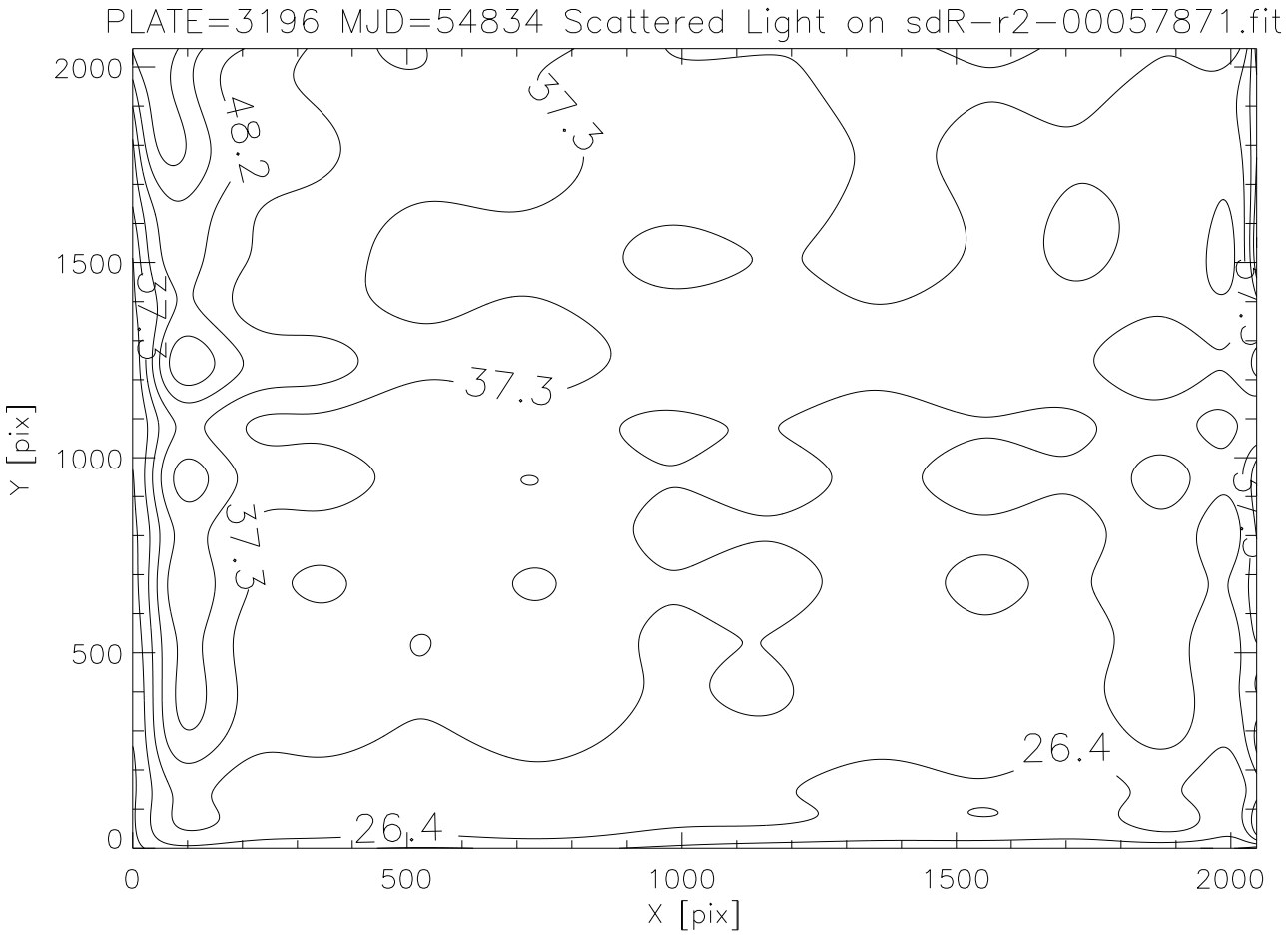

PLATE=3196 MJD=54834 Superflat sdR-r2-00057878.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

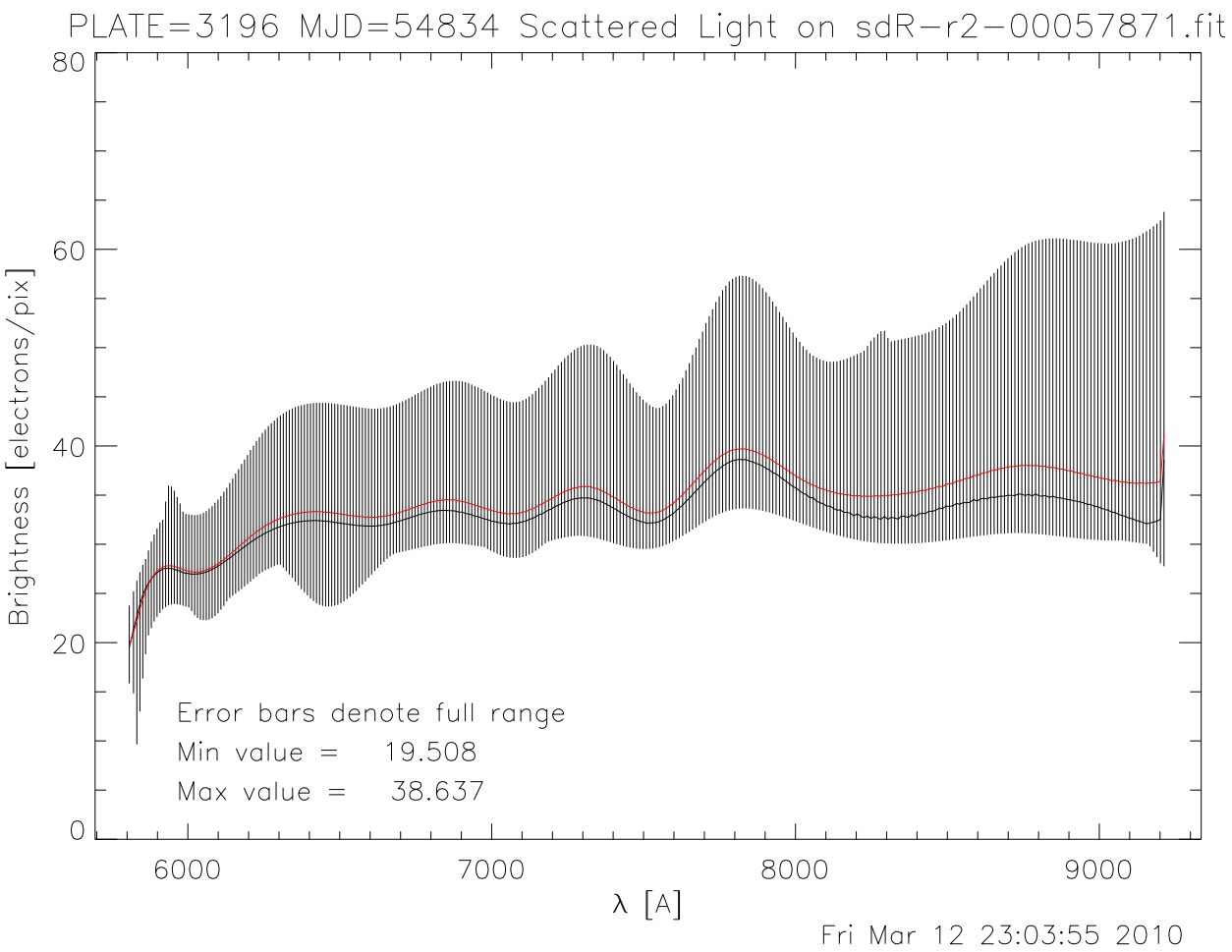

PLATE=3196 MJD=54834 Arcline Fit for sdR-r2-00057874.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Fri Mar 12 22:58:12 2010

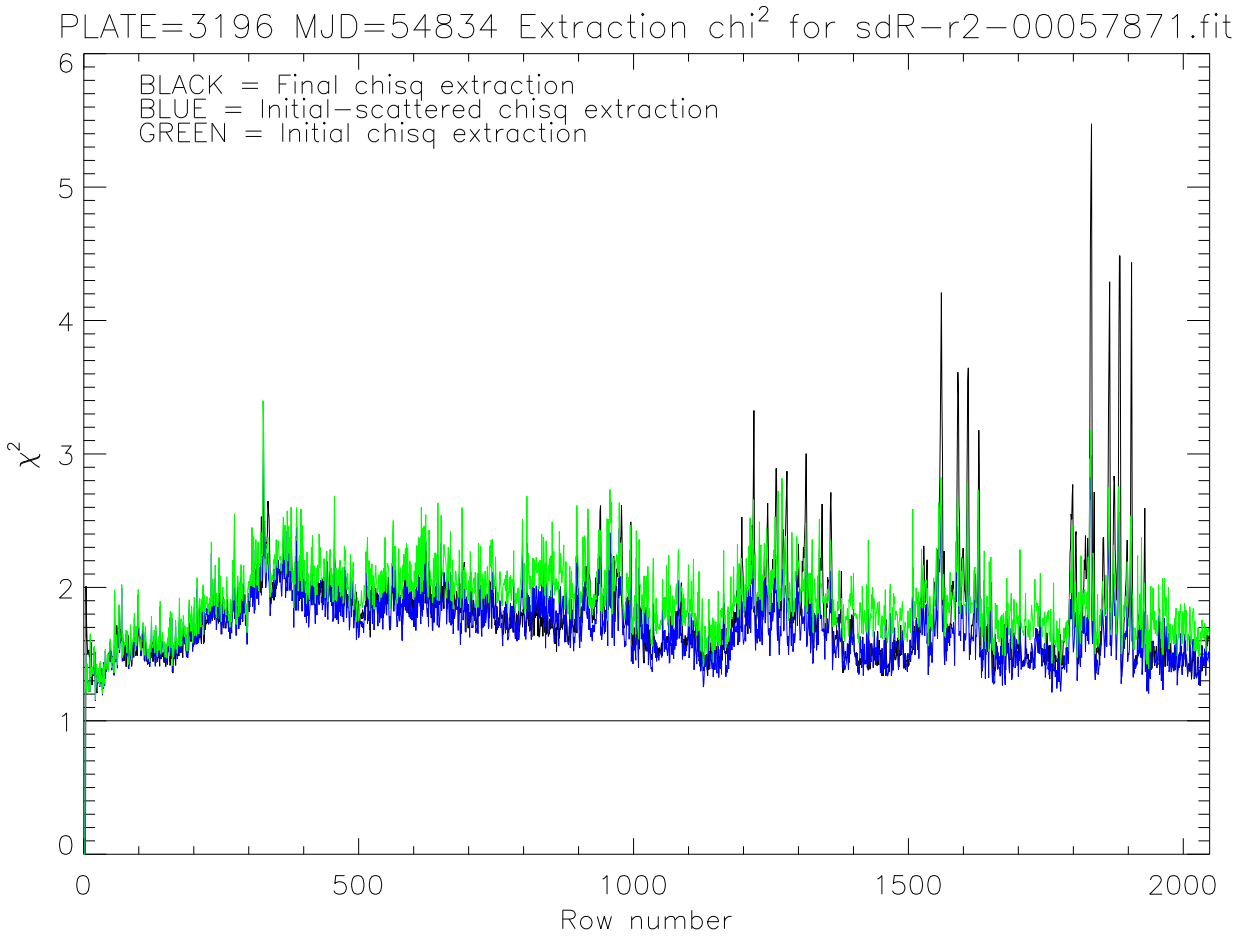

PLATE=3196 MJD=54834 Fiber−Flats for sdR−r2−00057873.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.627
Max value = 1.203
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Fri Mar 12 22:58:25 2010

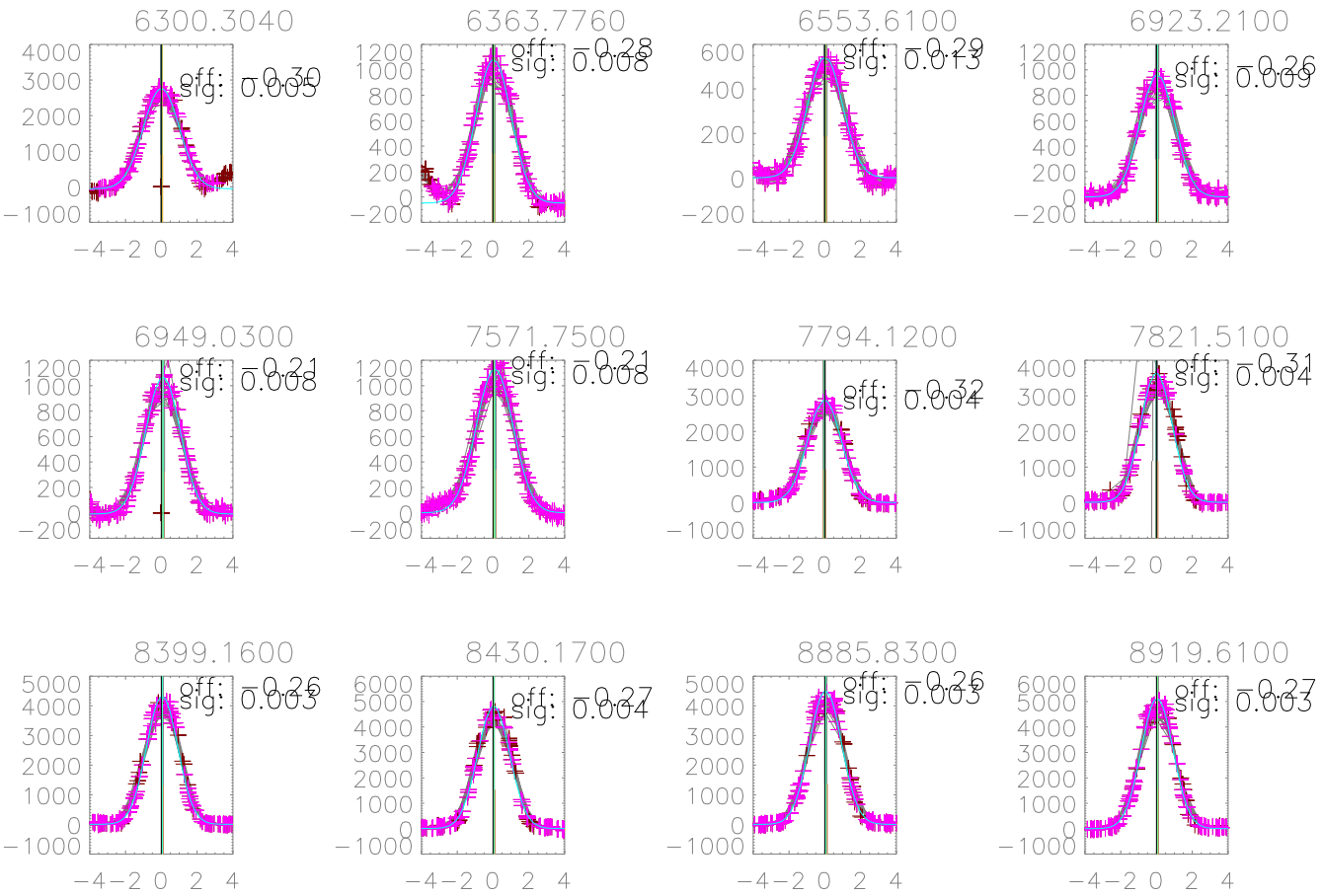

PLATE=3196 MJD=54834 Scattered Light before halo removal on sdR-r2-00057871.fi
76
76
76
55
55
55
33
33
Y [pix]
X [pix]
0
500
1000
1500
2000

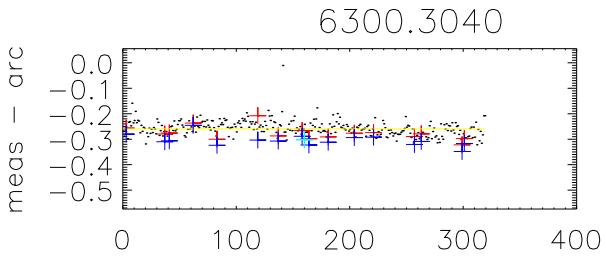

PLATE=3196 MJD=54834 Scattered Light before halo removal on sdR-r2-00057871.fi
Brightness [electrons/pix]
120
100
80
60
40
20
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 19.846
Max value = 87.637
Fri Mar 12 22:59:47 2010

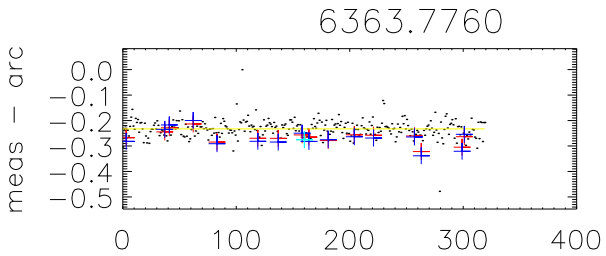

PLATE=3196 MJD=54834 Scattered Light on sdR-r2-00057871.fit
48.2
37.3
37.3
37.3
37.3
37.3
26.4
26.4
Y [pix]
X [pix]
0
500
1000
1500
2000

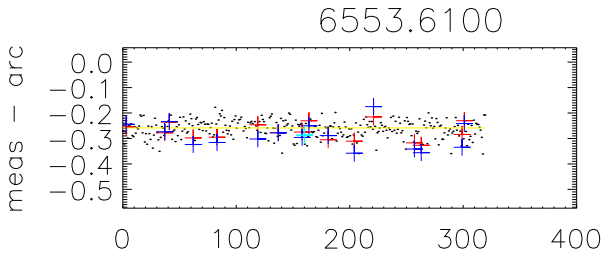

PLATE=3196 MJD=54834 Scattered Light on sdR-r2-00057871.fit
Brightness [electrons/pix]
80
60
40
20
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 19.508
Max value = 38.637
Fri Mar 12 23:03:55 2010

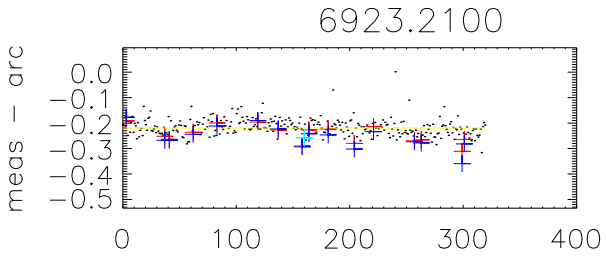

PLATE=3196 MJD=54834 Extraction chi^2 for sdR-r2-00057871.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

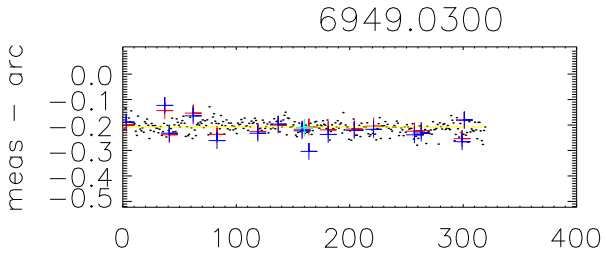

6300.3040
off: −0.30
sig: 0.005
6363.7760
off: −0.28
sig: 0.008
6553.6100
off: −0.29
sig: 0.013
6923.2100
off: −0.26
sig: 0.009
6949.0300
off: −0.21
sig: 0.008
7571.7500
off: −0.21
sig: 0.008
7794.1200
off: −0.32
sig: 0.004
7821.5100
off: −0.31
sig: 0.004
8399.1600
off: −0.26
sig: 0.003
8430.1700
off: −0.27
sig: 0.004
8885.8300
off: −0.26
sig: 0.003
8919.6100
off: −0.27
sig: 0.003

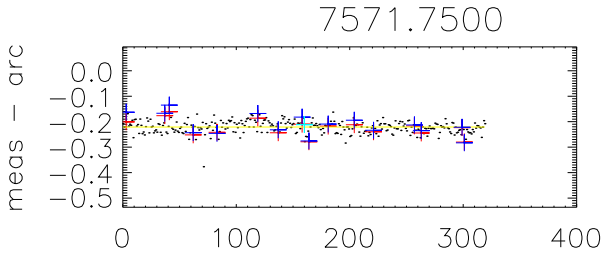

6300.3040
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

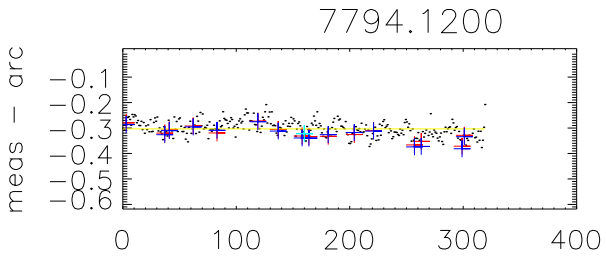

6363.7760
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

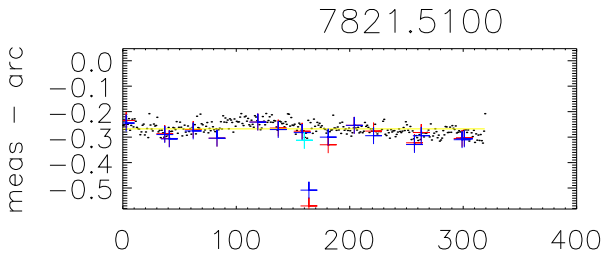

6553.6100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

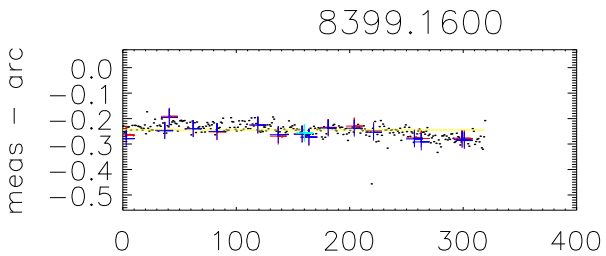

6923.2100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

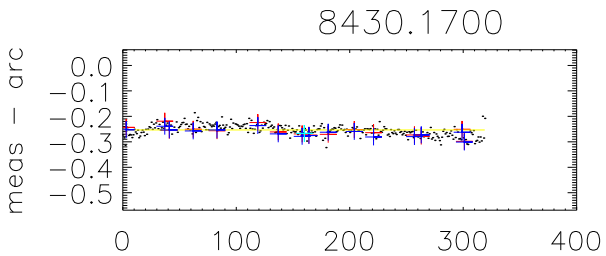

6949.0300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

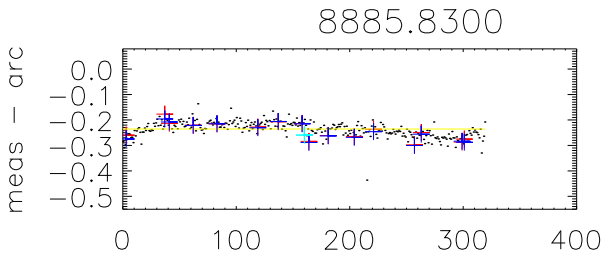

7571.7500
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

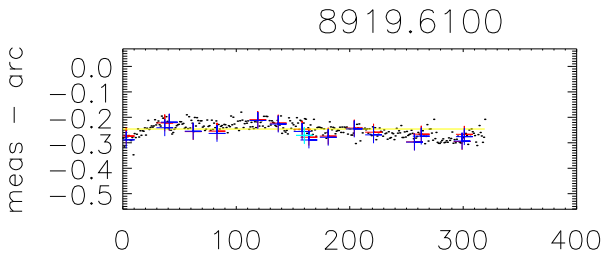

7794.1200
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

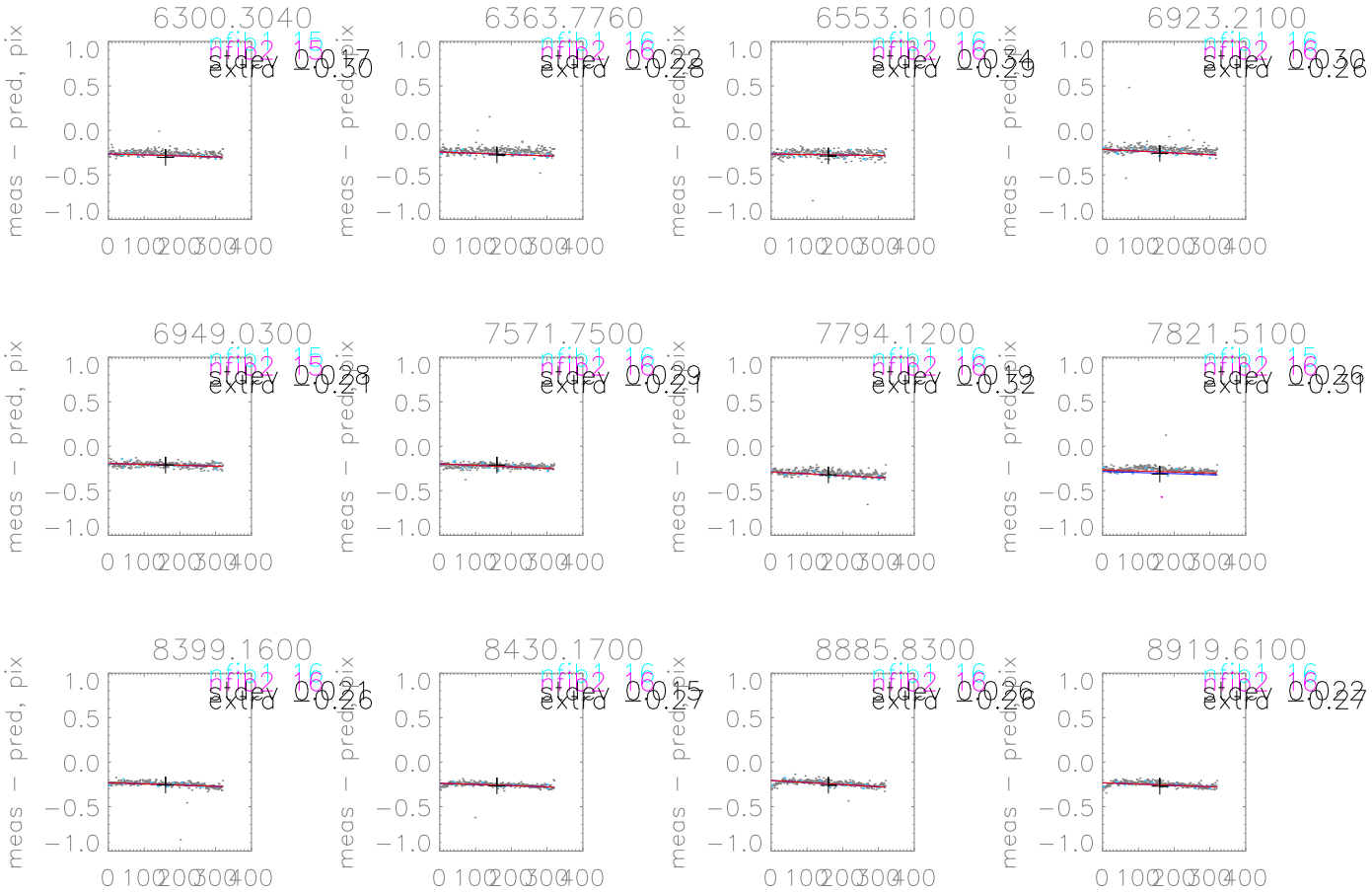

7821.5100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

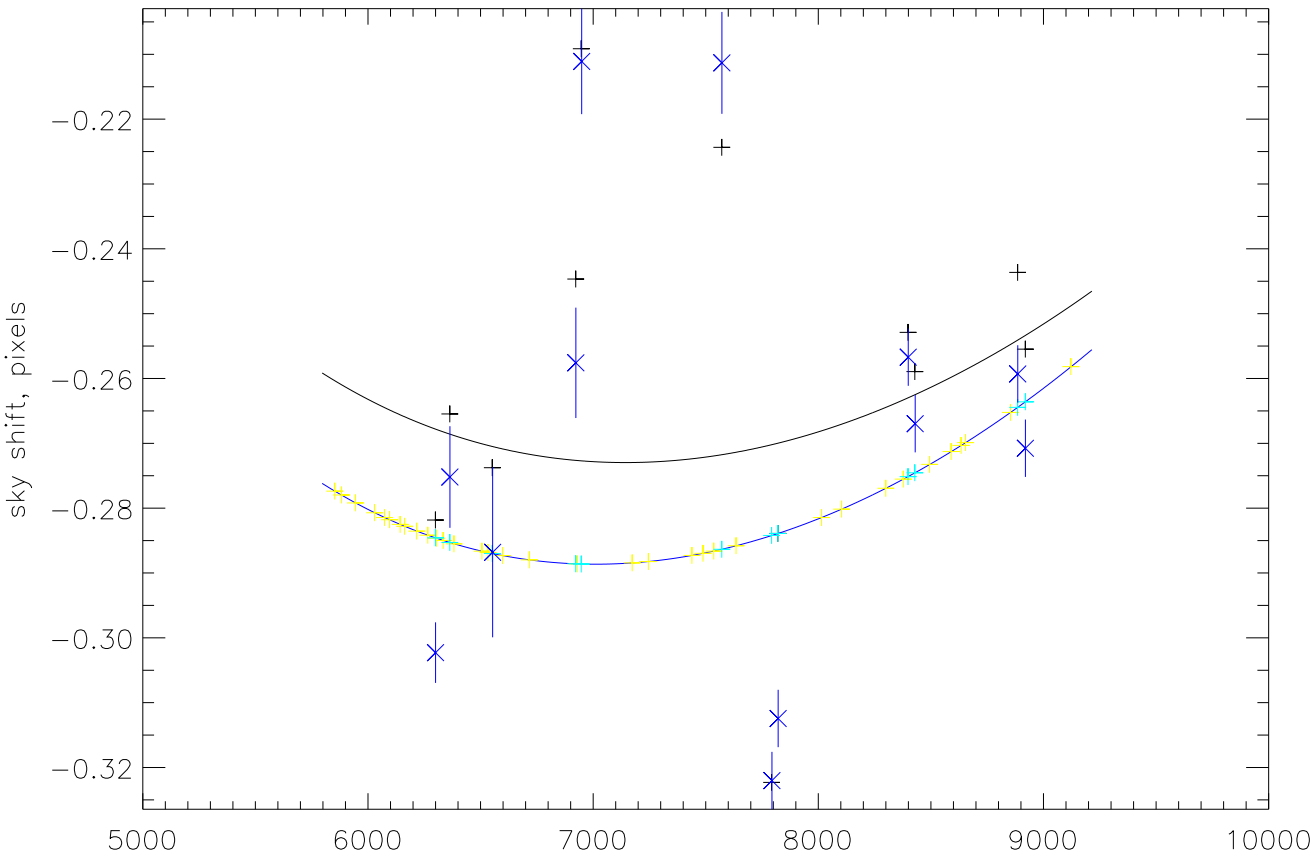

8399.1600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

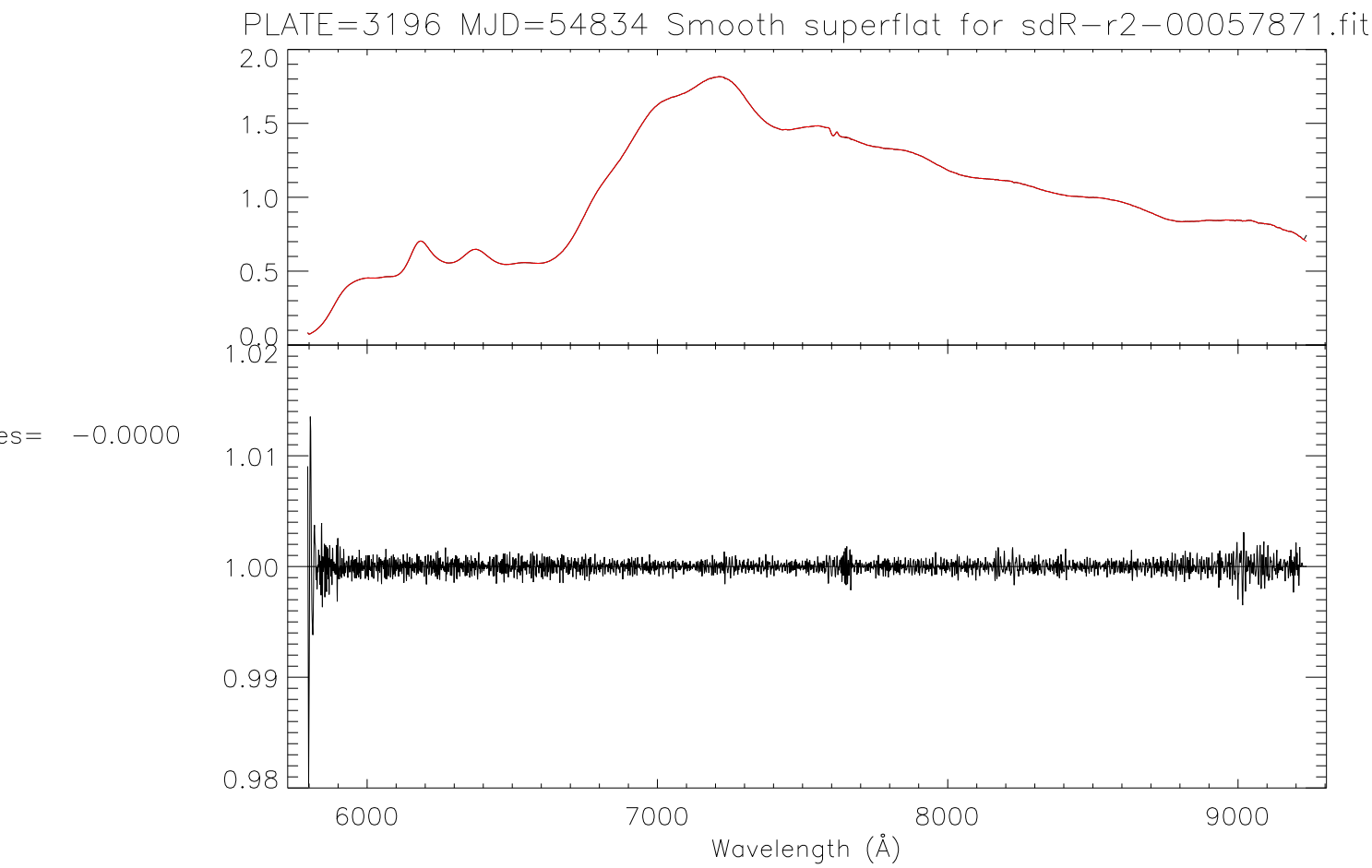

8430.1700
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400


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

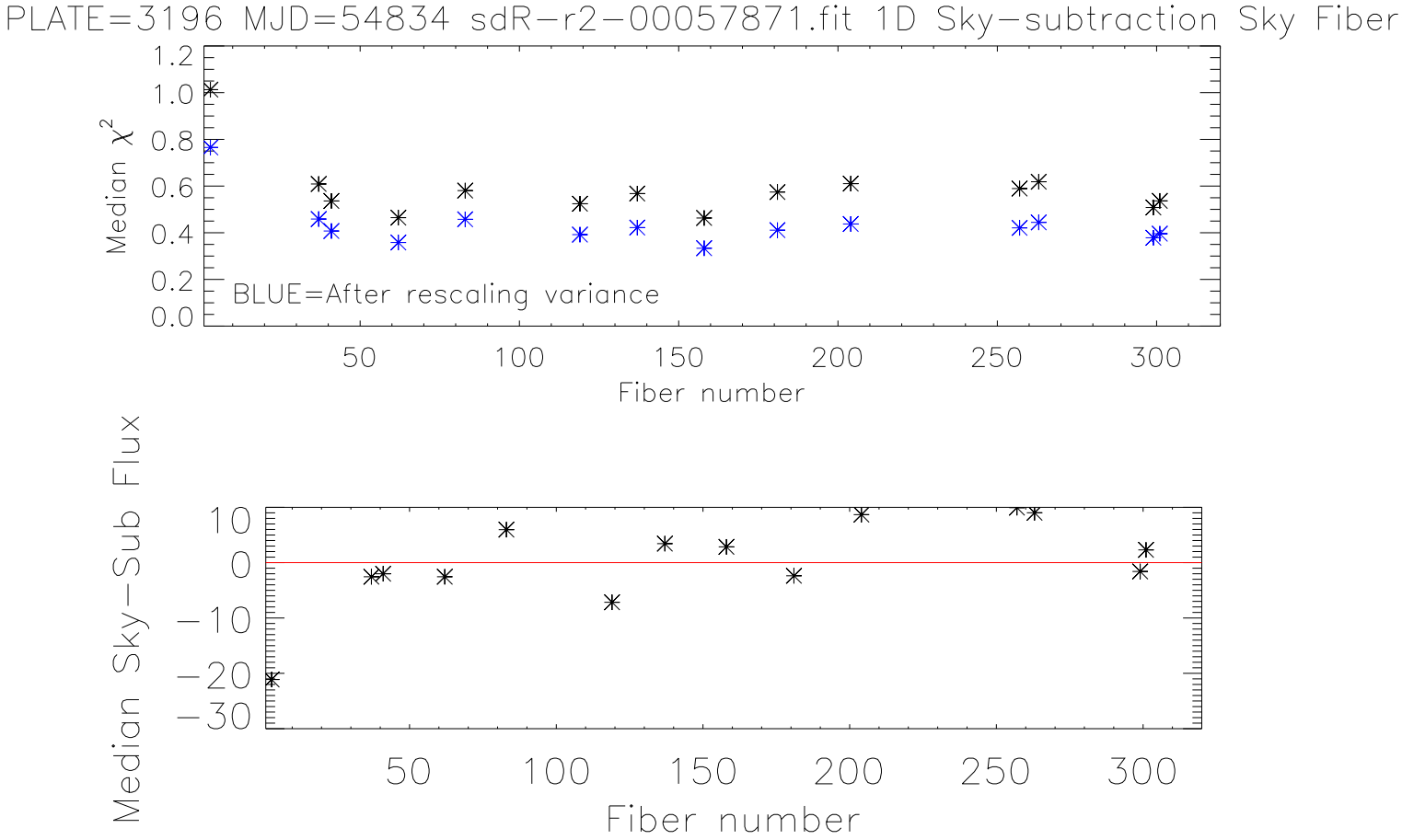

8919.6100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

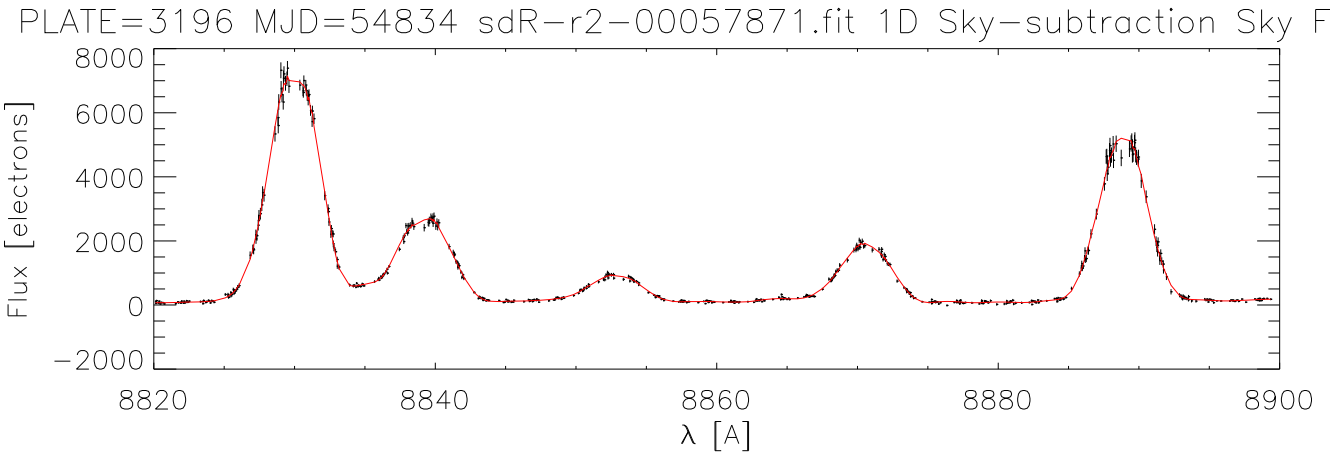

6300.3040
6363.7760
6553.6100
6923.2100
6949.0300
7571.7500
7794.1200
7821.5100
8399.1600
8430.1700
8885.8300
8919.6100
meas − pred, pix
mfib1 15
mfib2 16
stdev 0.17
extrd 0.30
stdev 0.22
extrd 0.28
stdev 0.34
extrd 0.29
stdev 0.30
extrd 0.26
stdev 0.28
extrd 0.24
stdev 0.29
extrd 0.24
stdev 0.19
extrd 0.32
stdev 0.26
extrd 0.34
stdev 0.21
extrd 0.26
stdev 0.15
extrd 0.27
stdev 0.26
extrd 0.26
stdev 0.22
extrd 0.27

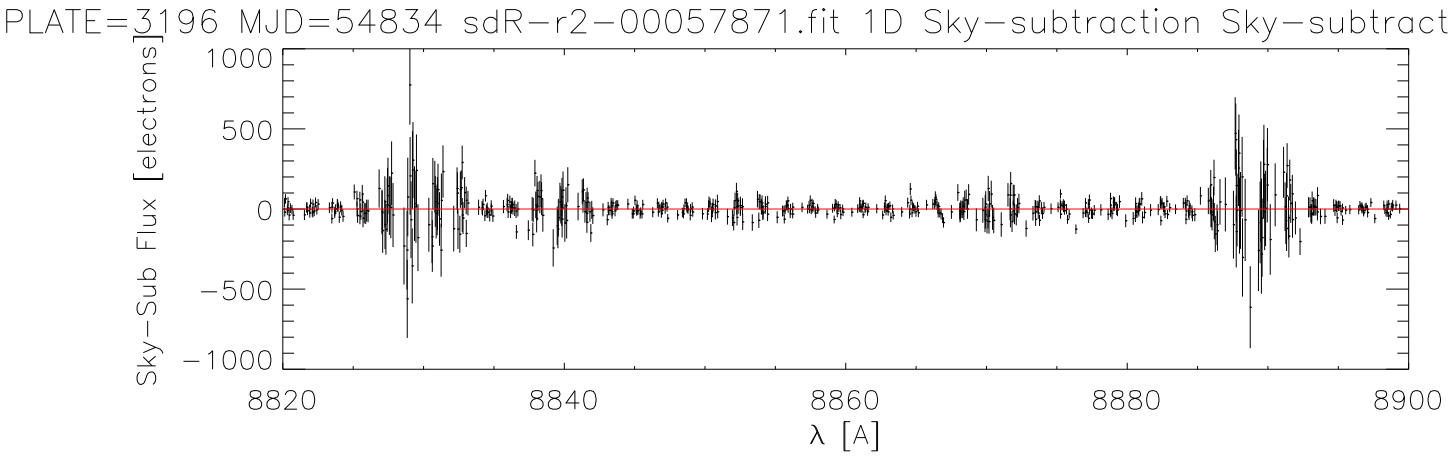

sky shift, pixels
−0.22
−0.24
−0.26
−0.28
−0.30
−0.32
5000
6000
7000
8000
9000
10000

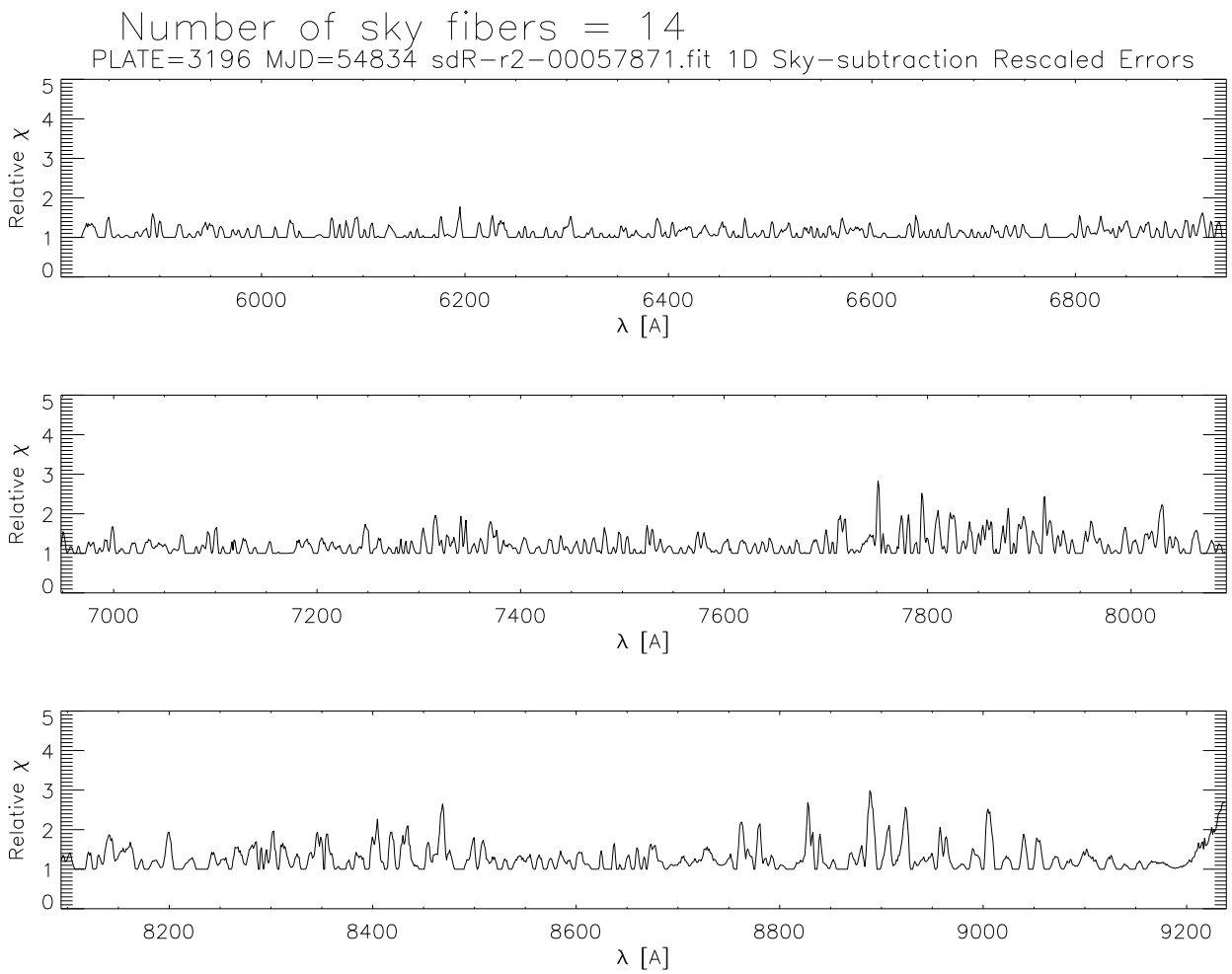

PLATE=3196 MJD=54834 Smooth superflat for sdR-r2-00057871.fit
2.0
1.5
1.0
0.5
0.0
1.02
1.01
1.00
0.99
0.98
6000
7000
8000
9000
Wavelength (Å)

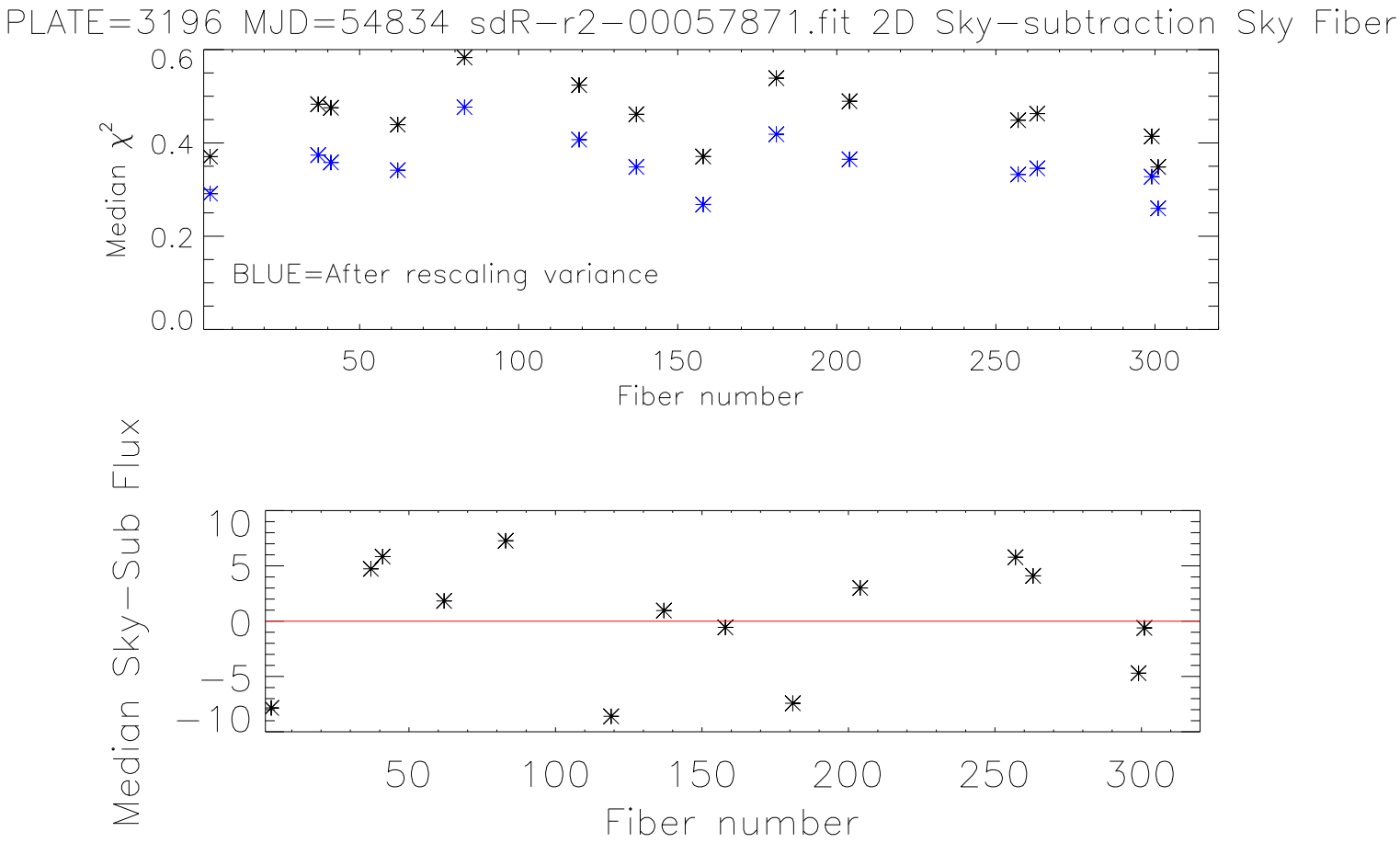
es= −0.0000

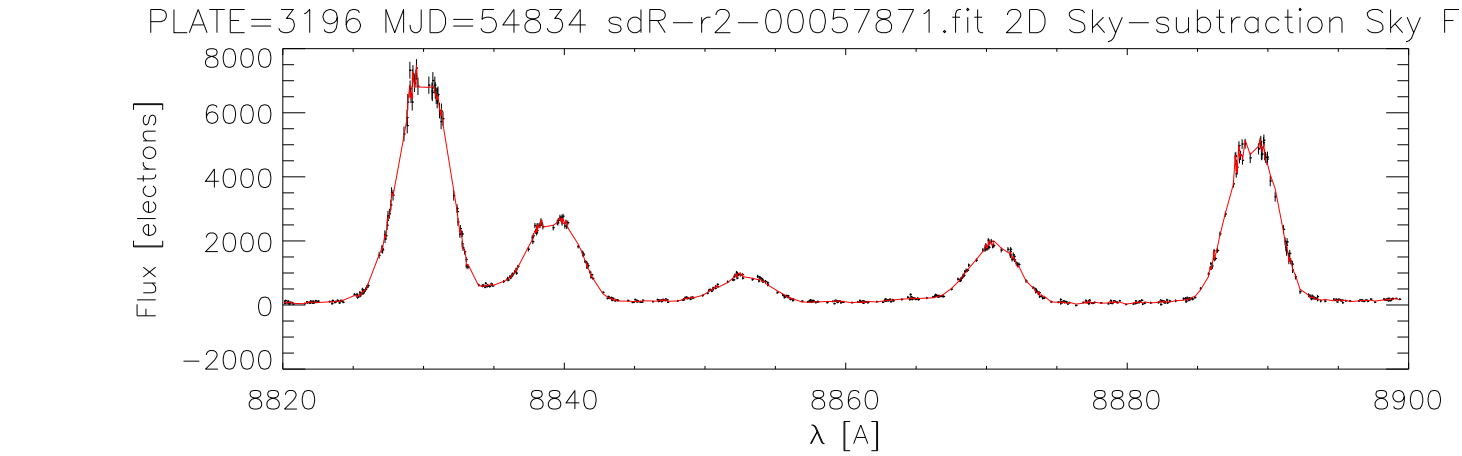

PLATE=3196 MJD=54834 sdR-r2-00057871.fit 1D Sky-subtraction Sky Fibers
Median χ^2
1.2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
0
-10
-20
-30
50
100
150
200
250
300
Fiber number

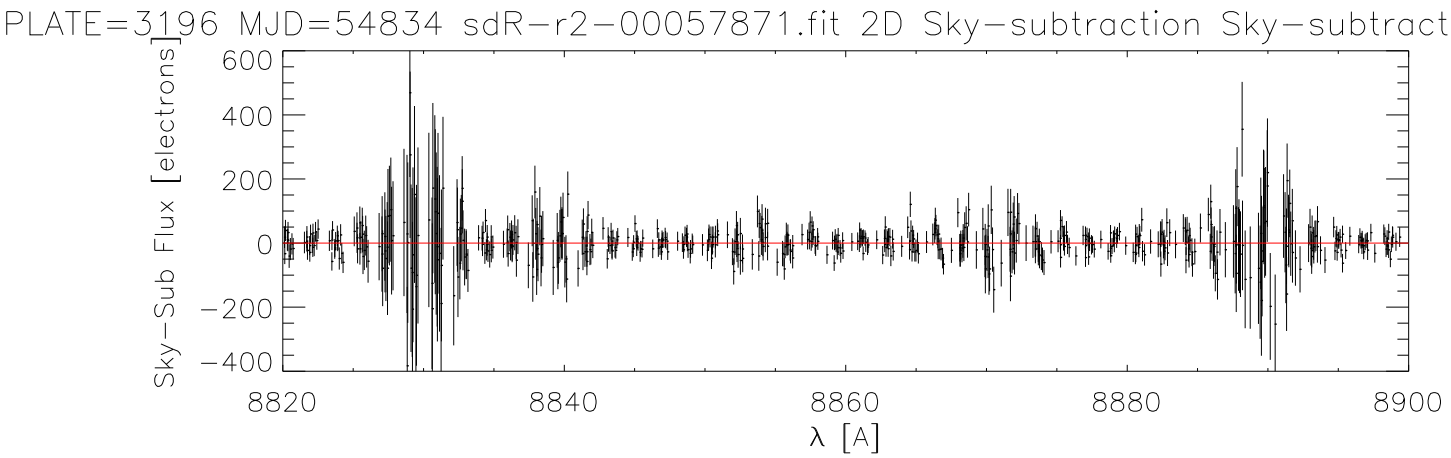

PLATE=3196 MJD=54834 sdR-r2-00057871.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
-2000
8820
8840
8860
8880
8900
λ [A]

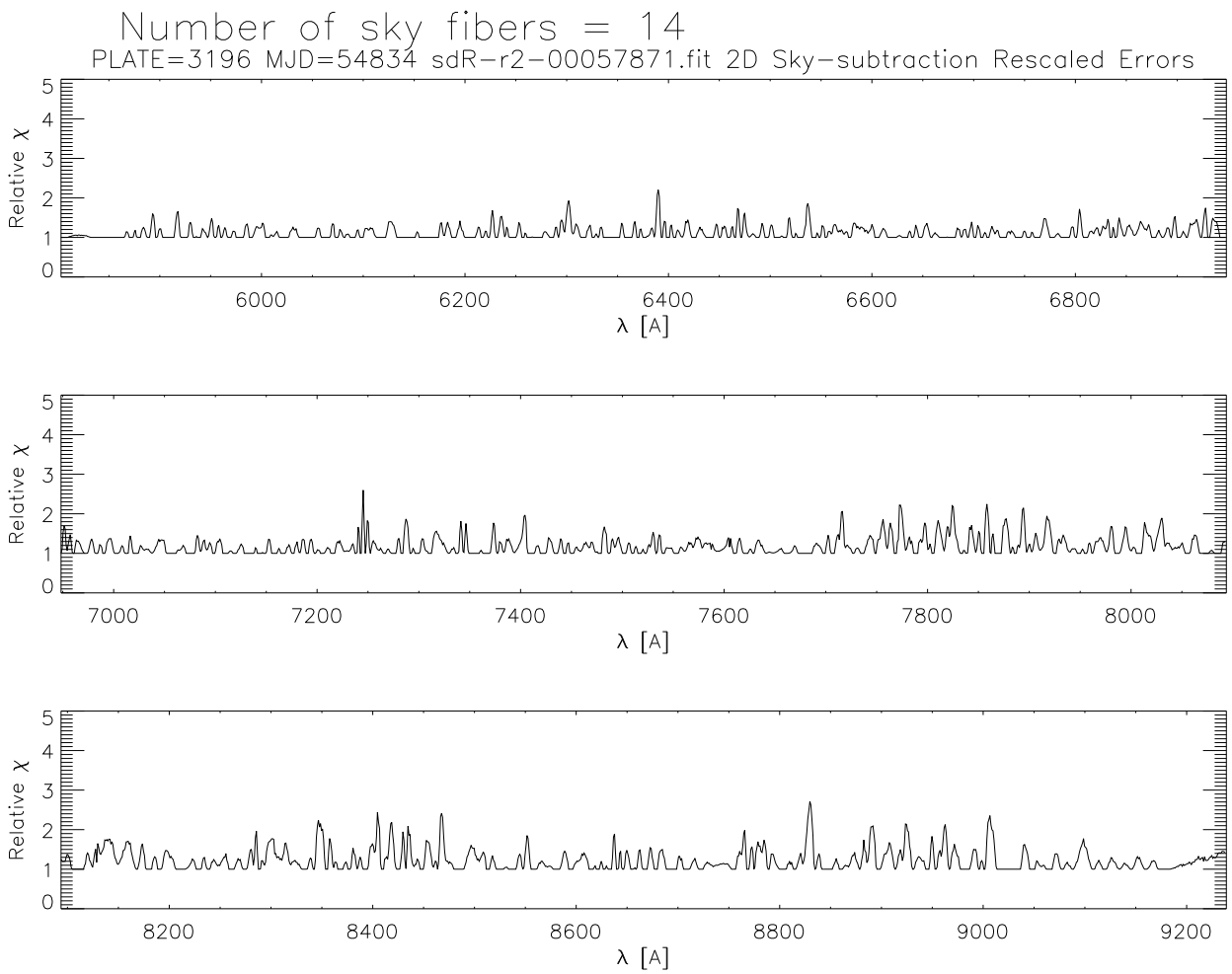

PLATE=3196 MJD=54834 sdR-r2-00057871.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
500
0
-500
-1000
8820
8840
8860
8880
8900
λ [A]

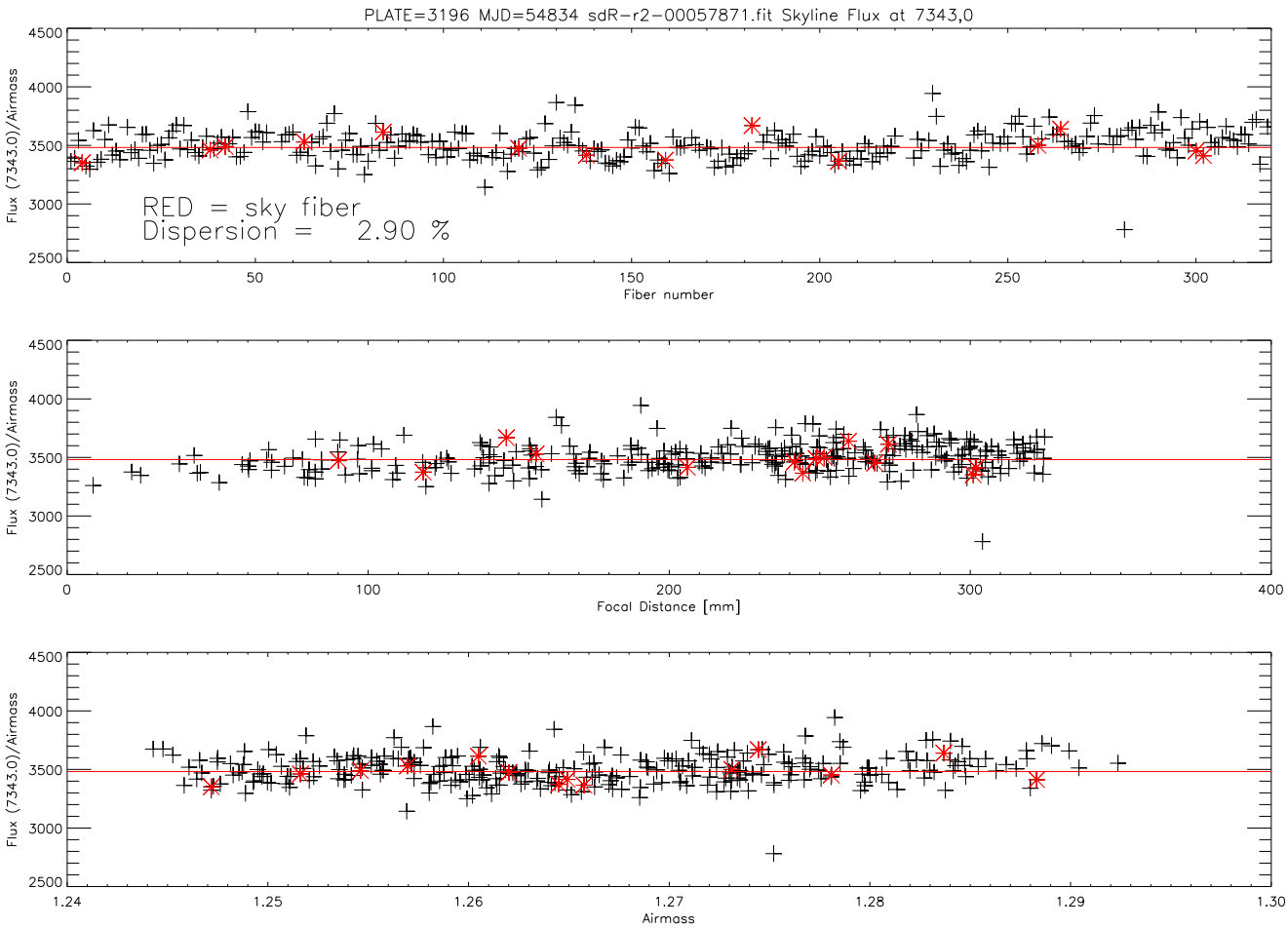

Number of sky fibers = 14
PLATE=3196 MJD=54834 sdR-r2-00057871.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

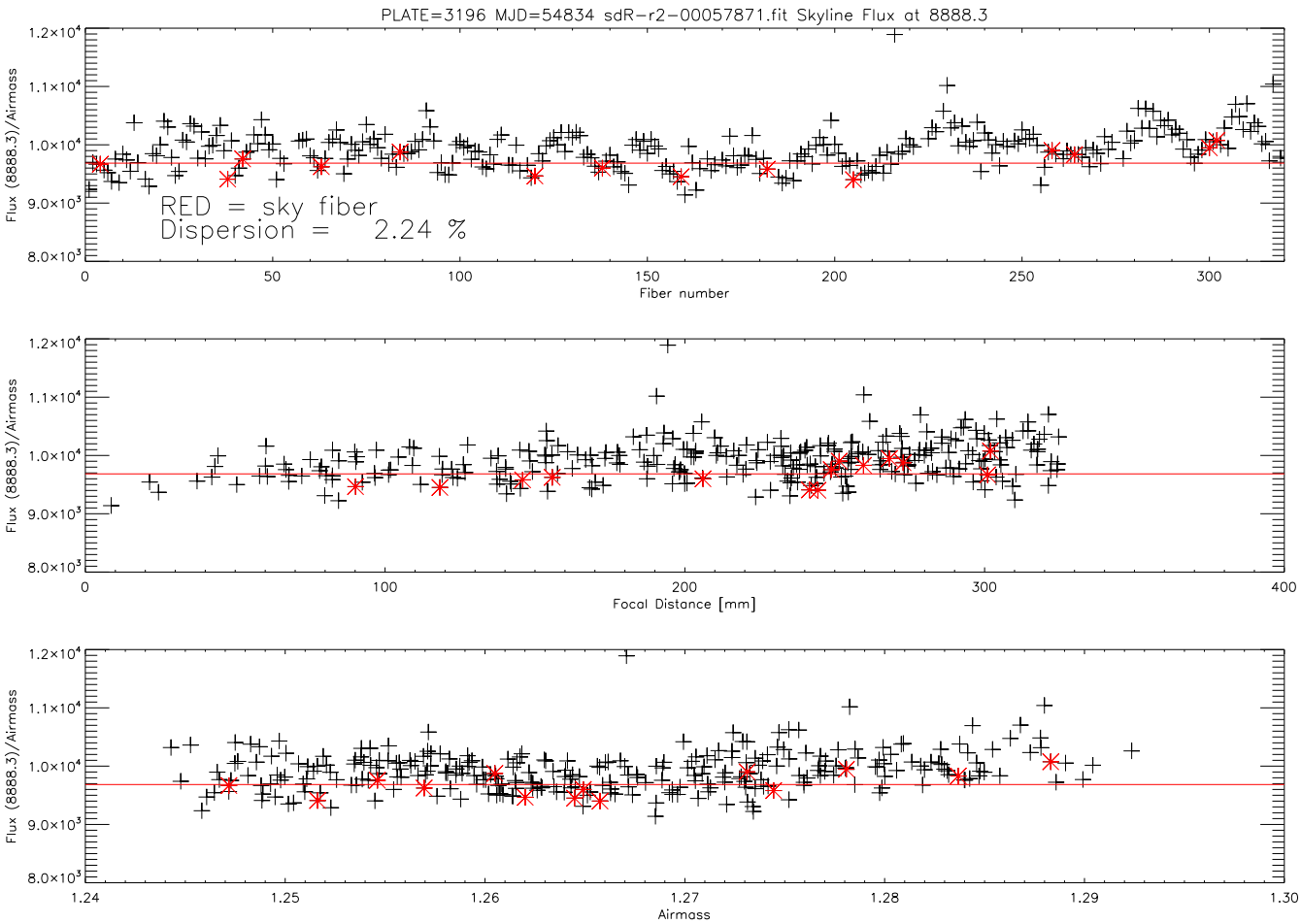

PLATE=3196 MJD=54834 sdR-r2-00057871.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

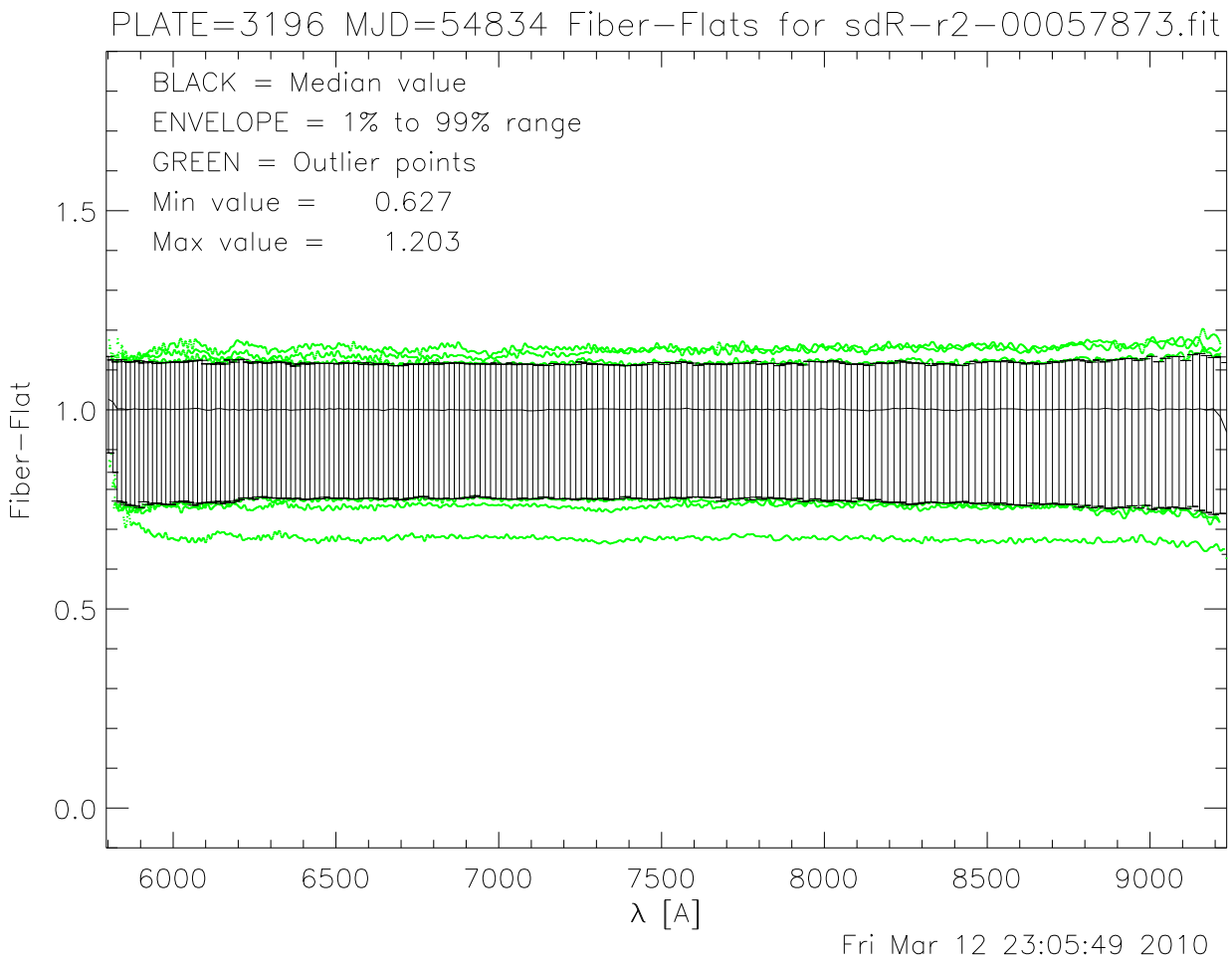

PLATE=3196 MJD=54834 sdR-r2-00057871.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
−2000
8820
8840
8860
8880
8900
λ [A]

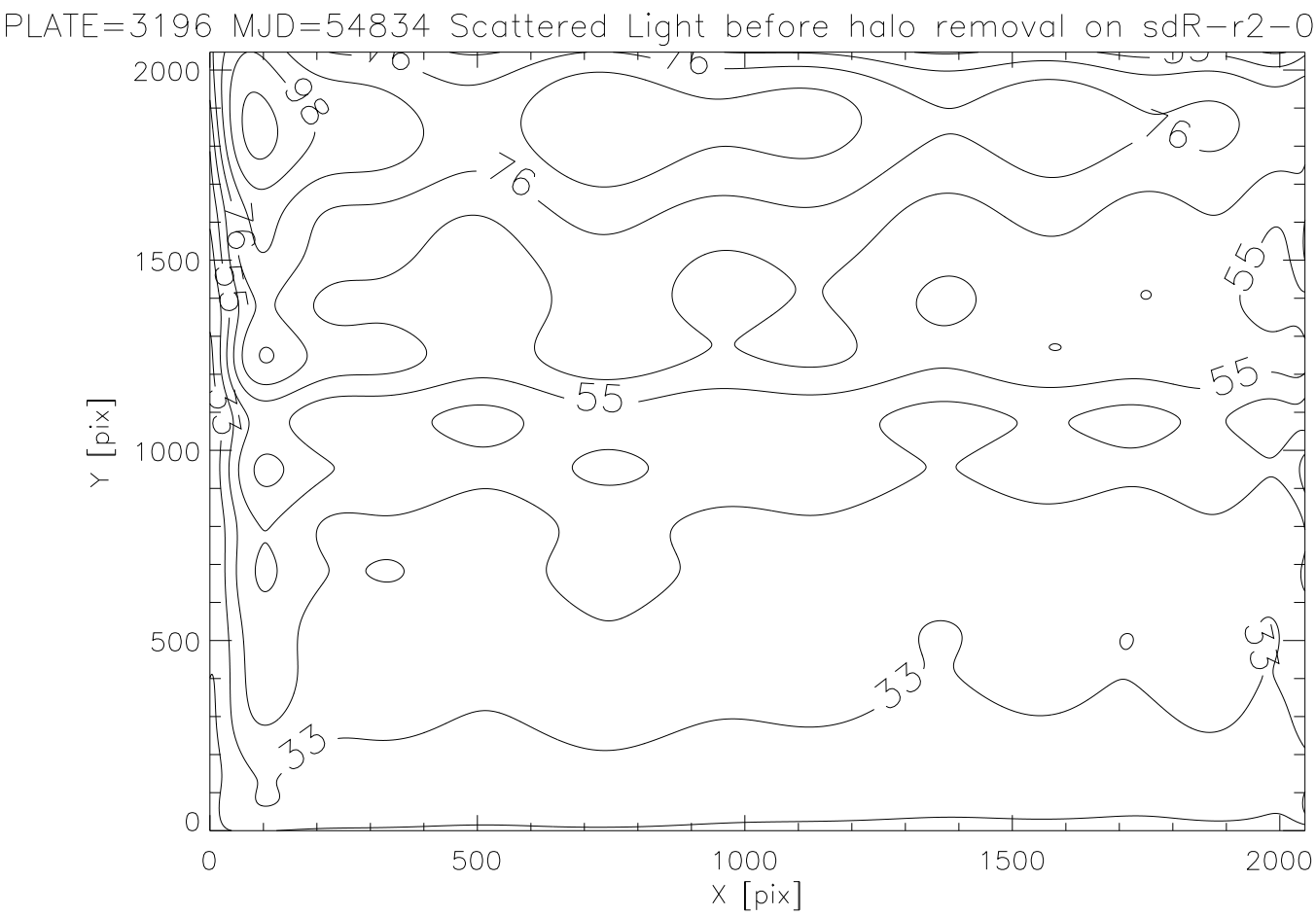

PLATE=3196 MJD=54834 sdR-r2-00057871.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
−200
−400
8820
8840
8860
8880
8900
λ [A]

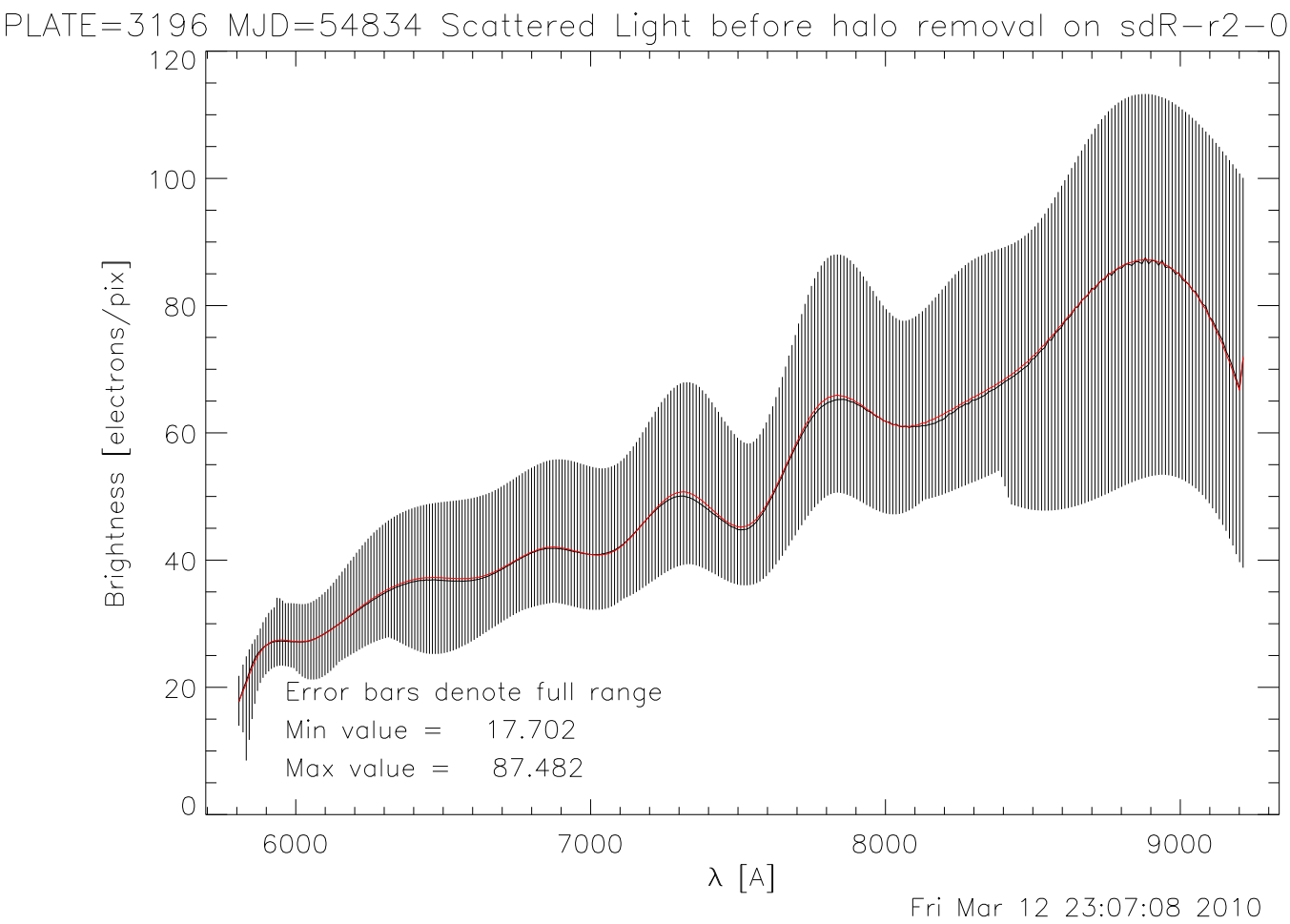

Number of sky fibers = 14
PLATE=3196 MJD=54834 sdR-r2-00057871.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

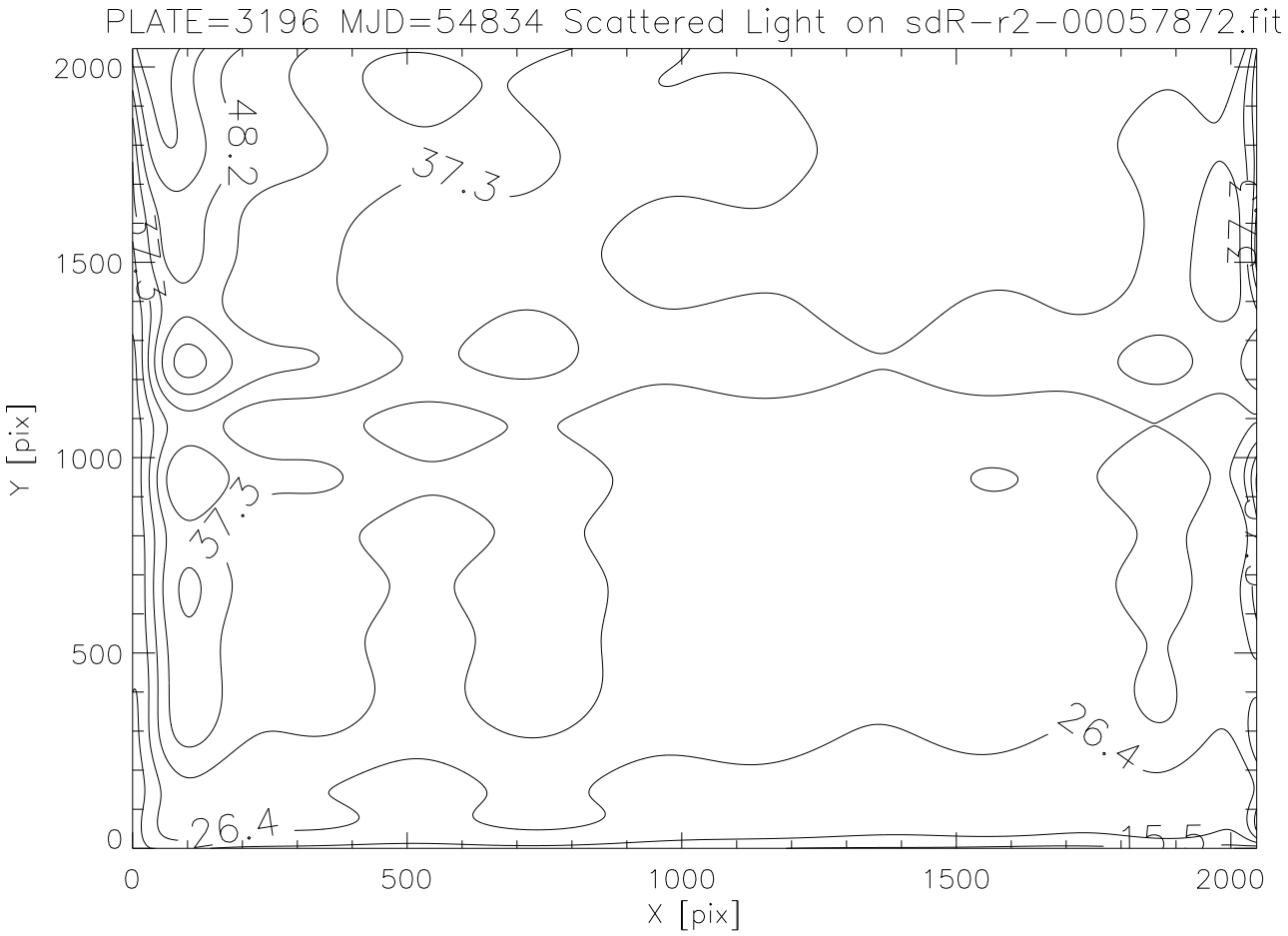

PLATE=3196 MJD=54834 sdR-r2-00057871.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.90 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

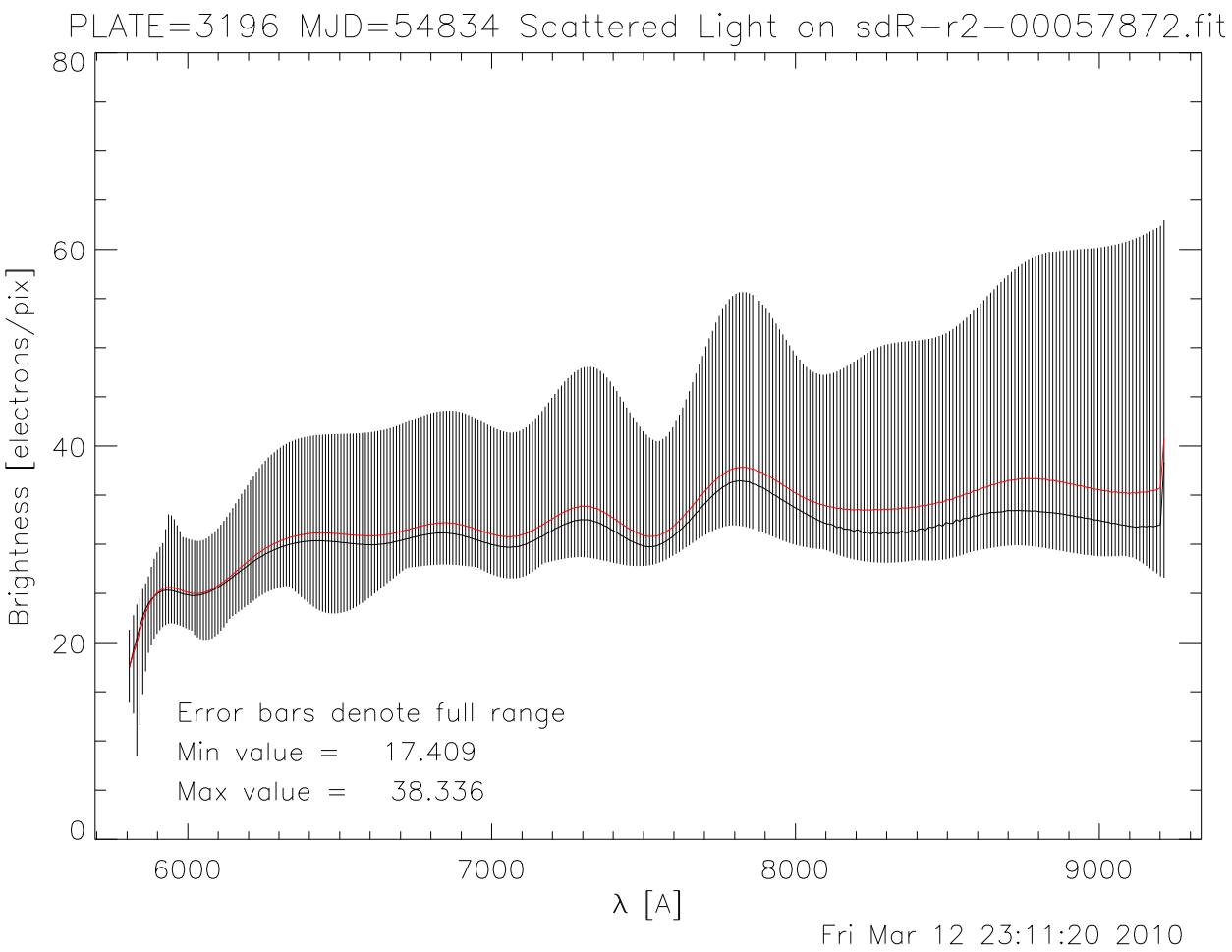

PLATE=3196 MJD=54834 sdR-r2-00057871.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.24 %
Fiber number
Focal Distance [mm]
Airmass

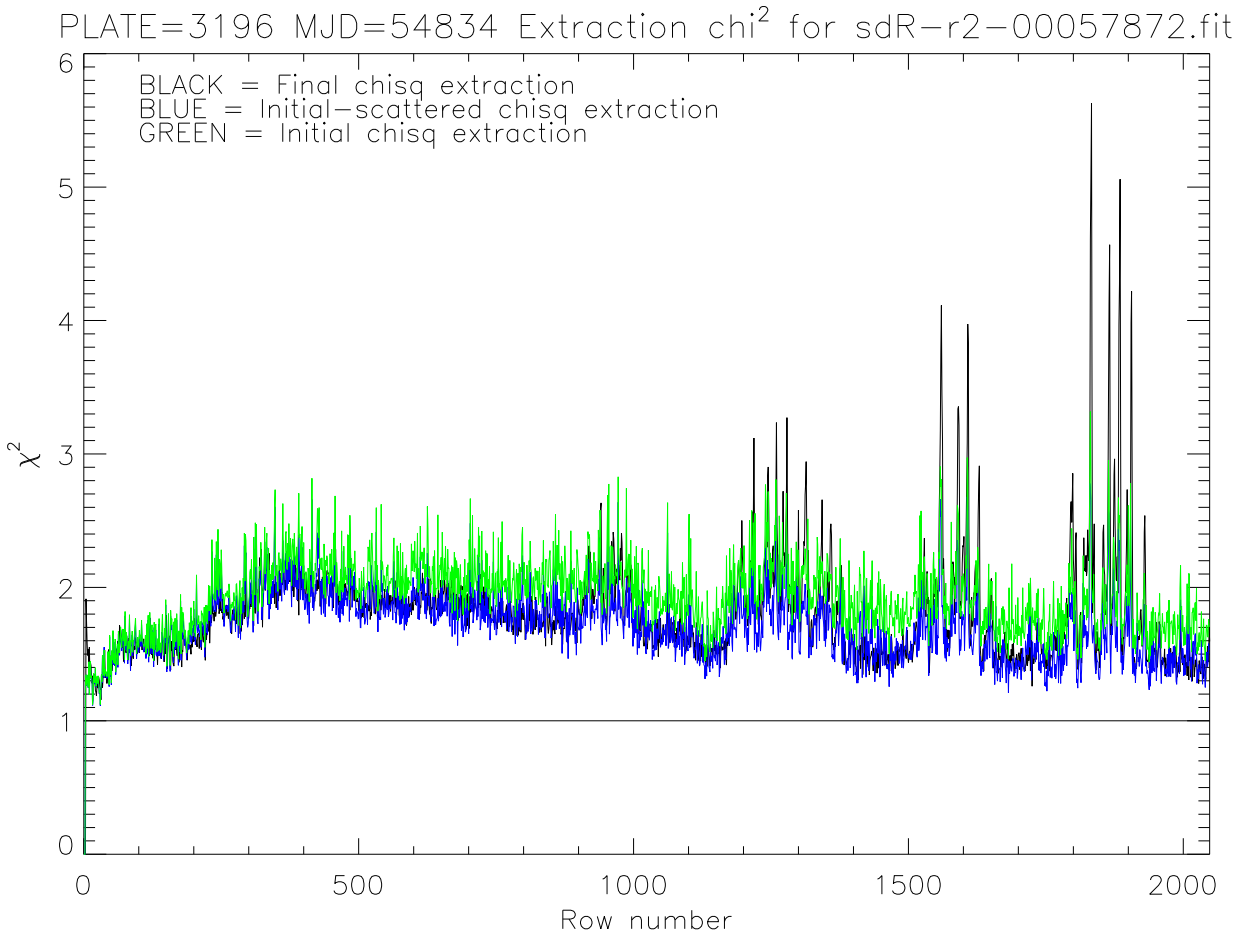

PLATE=3196 MJD=54834 Fiber−Flats for sdR−r2−00057873.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.627
Max value = 1.203
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Fri Mar 12 23:05:49 2010

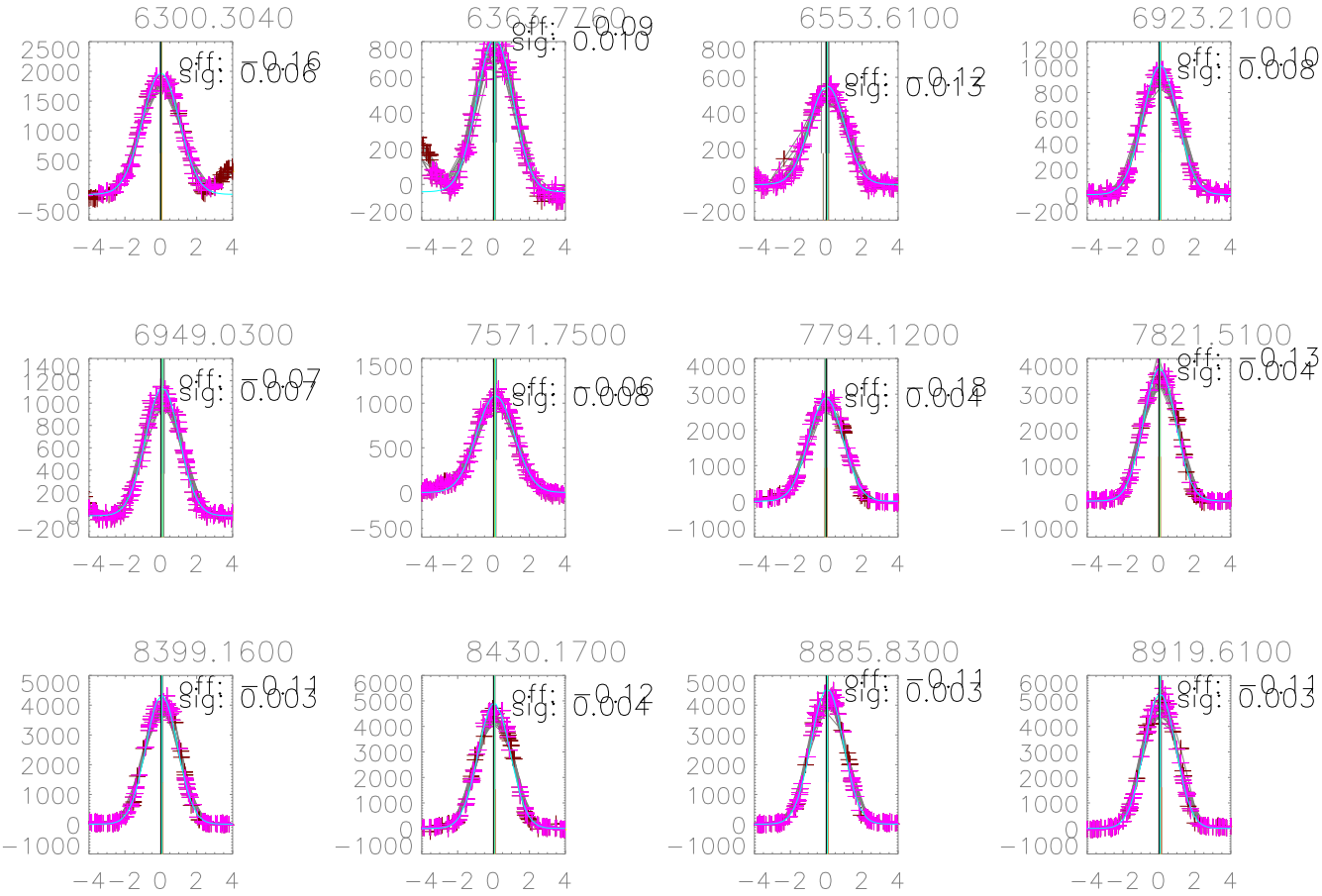

PLATE=3196 MJD=54834 Scattered Light before halo removal on sdR-r2-00057872.fi
98
76
55
33
Y [pix]
X [pix]
0
500
1000
1500
2000

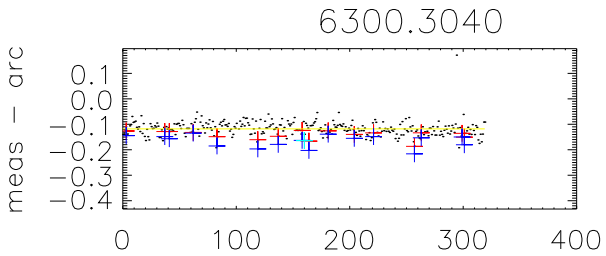

PLATE=3196 MJD=54834 Scattered Light before halo removal on sdR-r2-00057872.fi
Brightness [electrons/pix]
120
100
80
60
40
20
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 17.702
Max value = 87.482
Fri Mar 12 23:07:08 2010

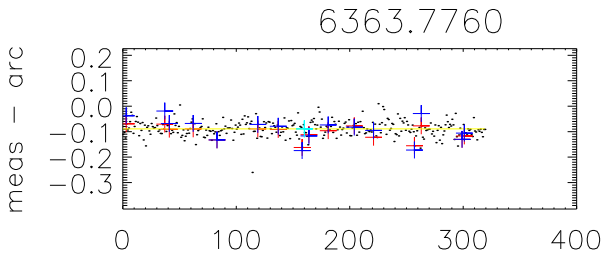

PLATE=3196 MJD=54834 Scattered Light on sdR-r2-00057872.fit
48.2
37.3
37.3
37.3
37.3
26.4
26.4
15.5
Y [pix]
X [pix]
0
500
1000
1500
2000

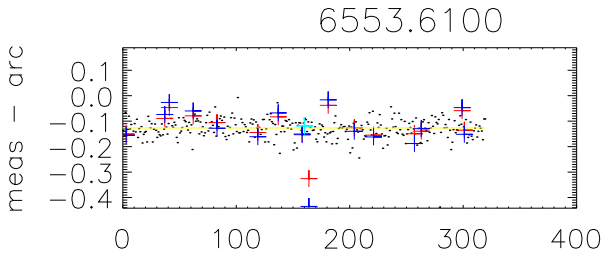

PLATE=3196 MJD=54834 Scattered Light on sdR-r2-00057872.fit
Brightness [electrons/pix]
80
60
40
20
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 17.409
Max value = 38.336
Fri Mar 12 23:11:20 2010

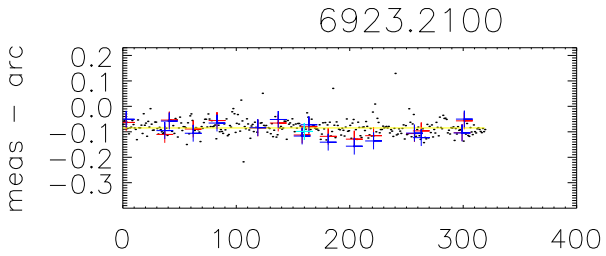

PLATE=3196 MJD=54834 Extraction chi^2 for sdR-r2-00057872.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

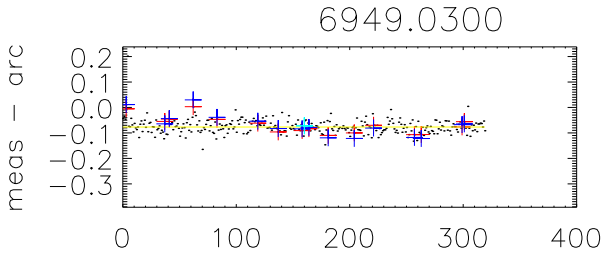

6300.3040
off: −0.16
sig: 0.008
6363.7760
off: −0.09
sig: 0.010
6553.6100
off: −0.12
sig: 0.013
6923.2100
off: −0.10
sig: 0.008
6949.0300
off: −0.07
sig: 0.007
7571.7500
off: −0.06
sig: 0.008
7794.1200
off: −0.18
sig: 0.004
7821.5100
off: −0.13
sig: 0.004
8399.1600
off: −0.11
sig: 0.003
8430.1700
off: −0.12
sig: 0.004
8885.8300
off: −0.11
sig: 0.003
8919.6100
off: −0.11
sig: 0.003

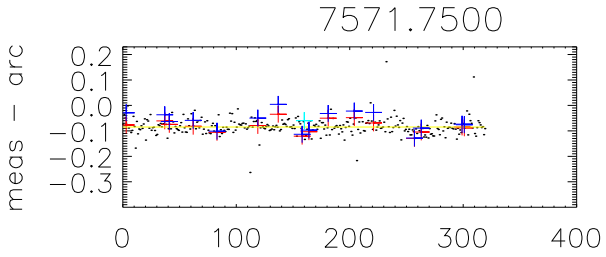

6300.3040
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

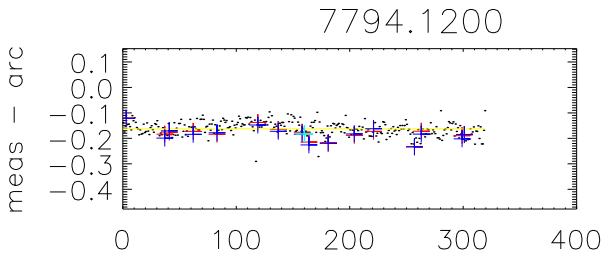

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

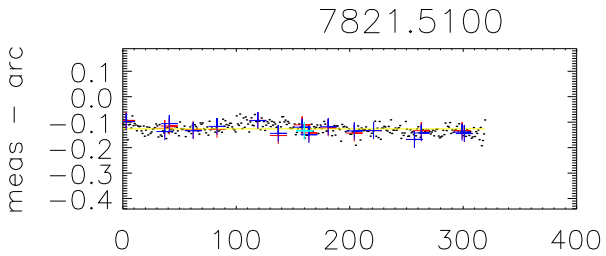

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

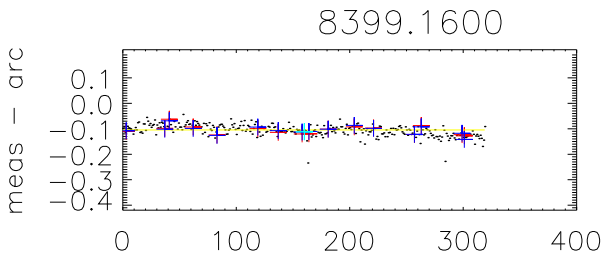

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

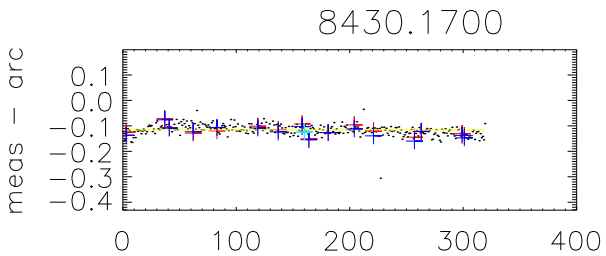

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

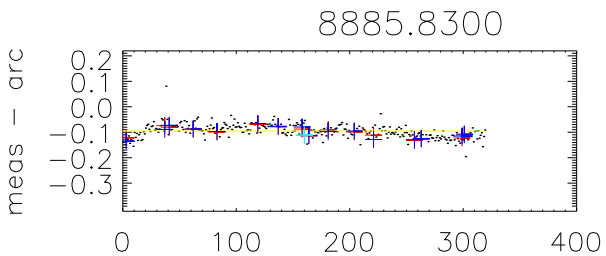

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

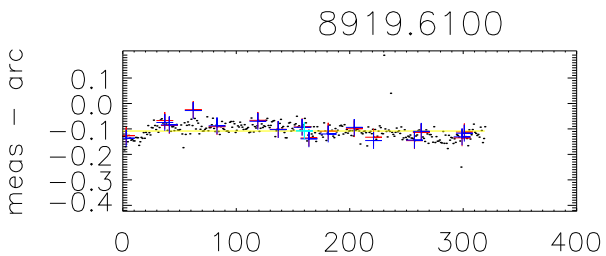

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

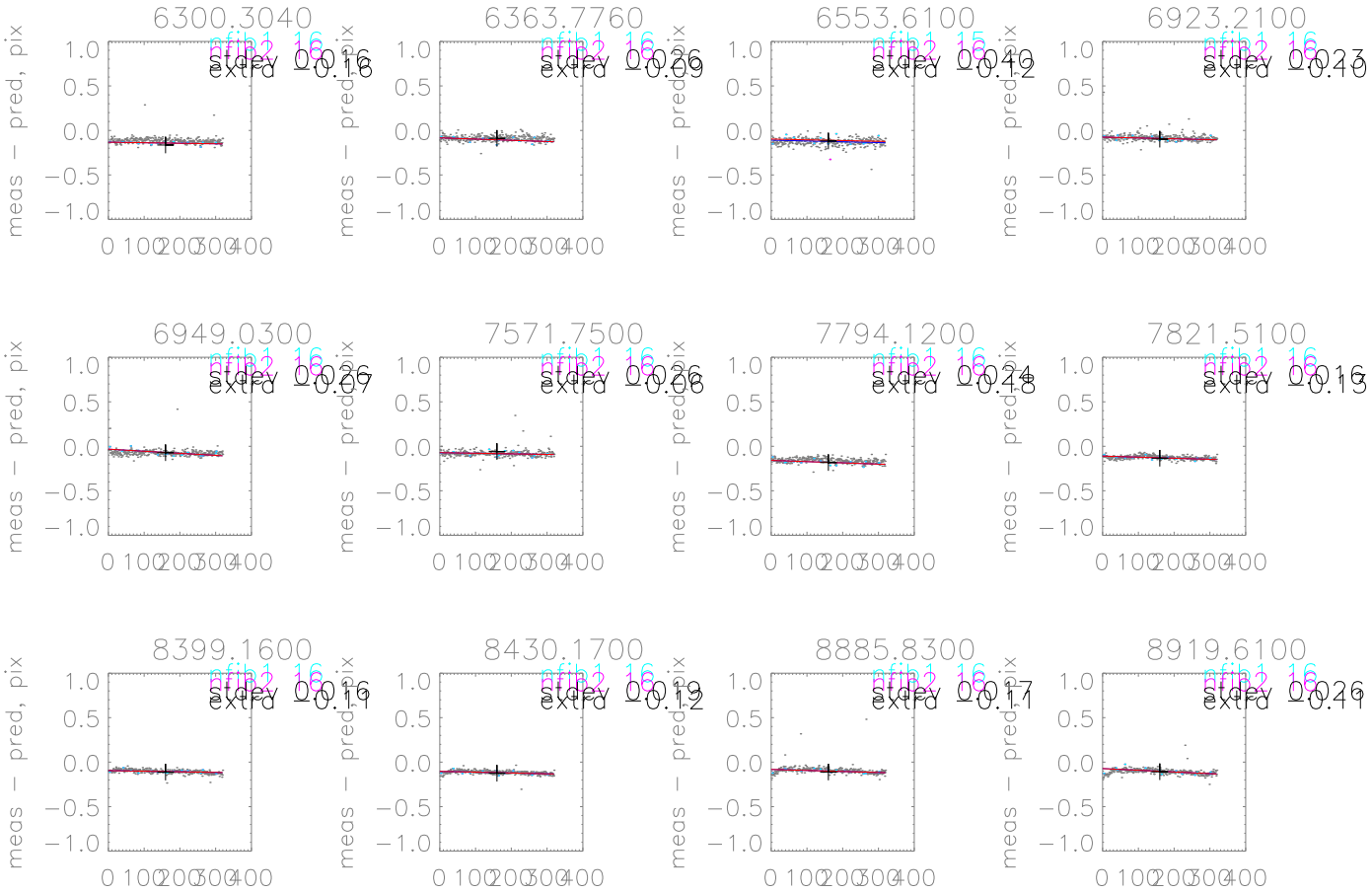

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

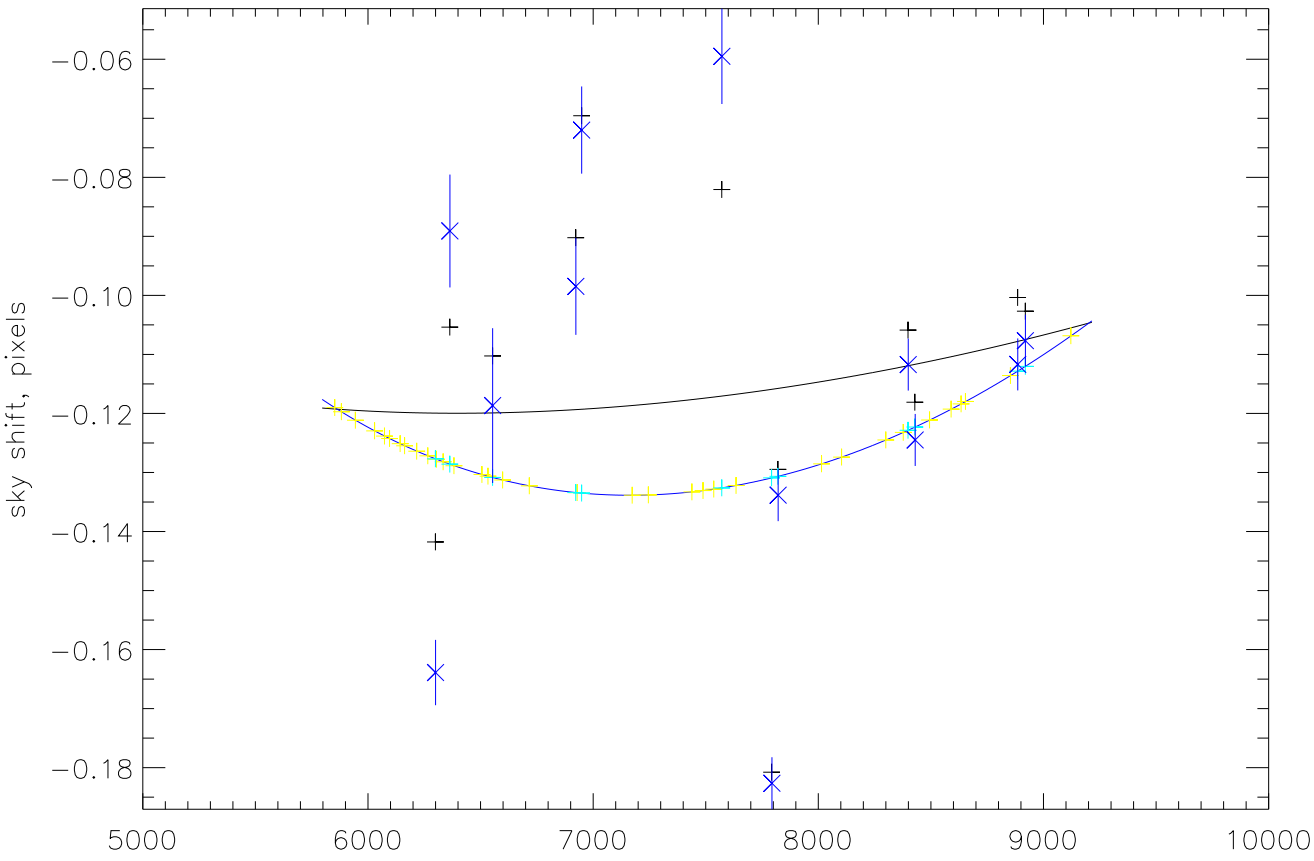

8399.1600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


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

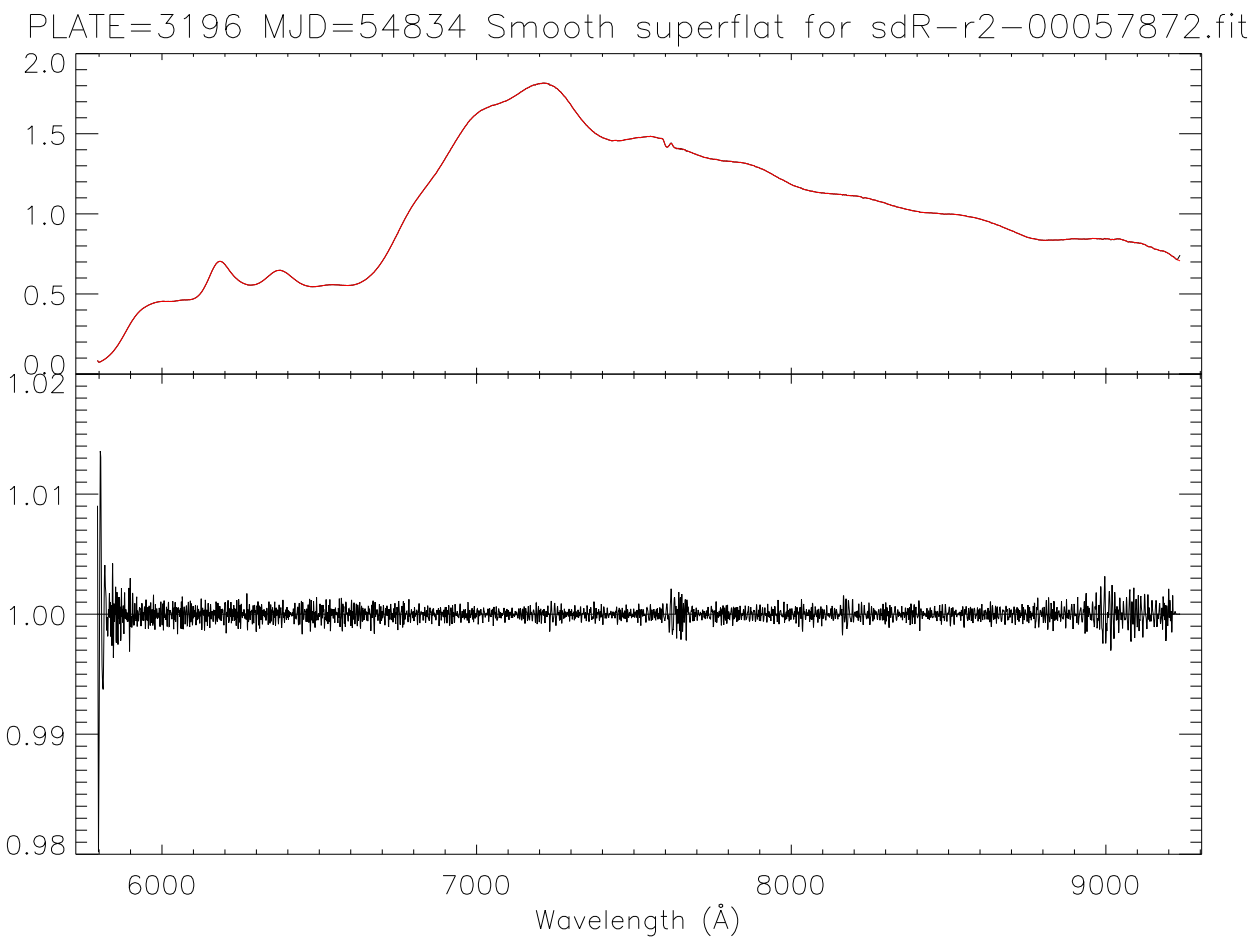

8885.8300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

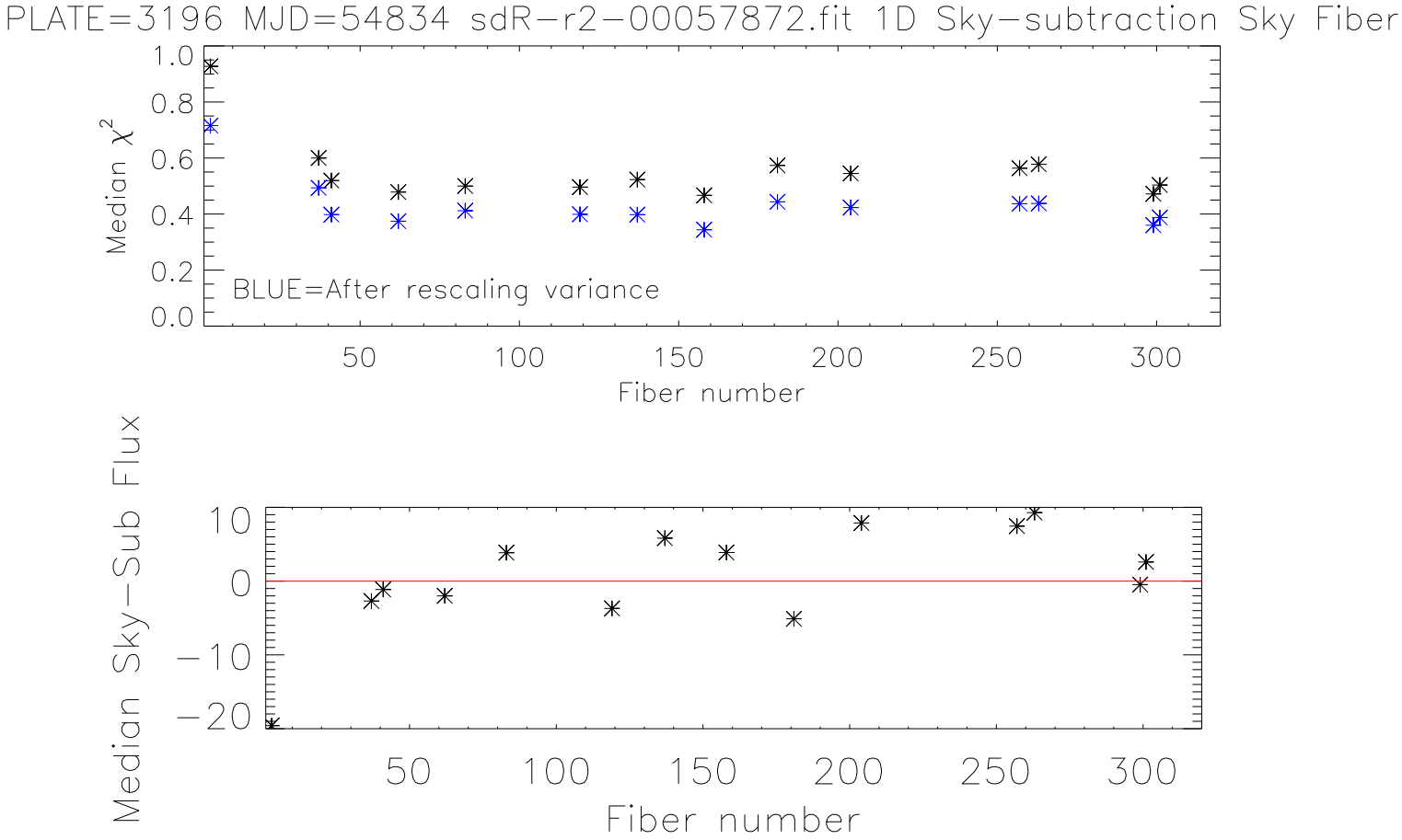

8919.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

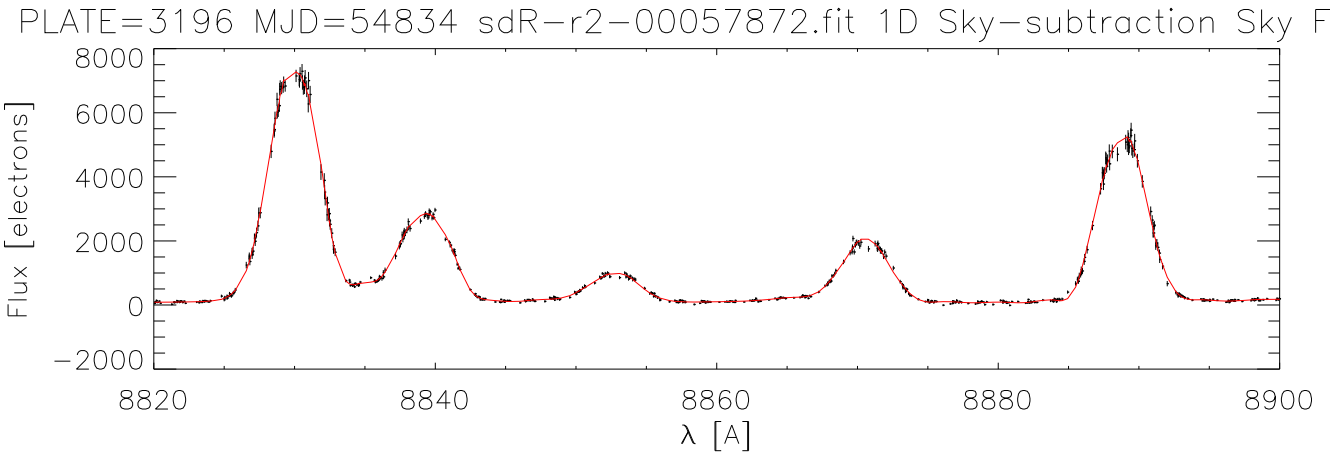

6300.3040
stdev 0.16
extra 0.16
6363.7760
stdev 0.09
extra 0.26
6553.6100
stdev 0.12
extra 0.40
6923.2100
stdev 0.10
extra 0.23
6949.0300
stdev 0.07
extra 0.26
7571.7500
stdev 0.06
extra 0.26
7794.1200
stdev 0.08
extra 0.24
7821.5100
stdev 0.13
extra 0.16
8399.1600
stdev 0.11
extra 0.16
8430.1700
stdev 0.12
extra 0.19
8885.8300
stdev 0.11
extra 0.17
8919.6100
stdev 0.41
extra 0.26
meas − pred, pix

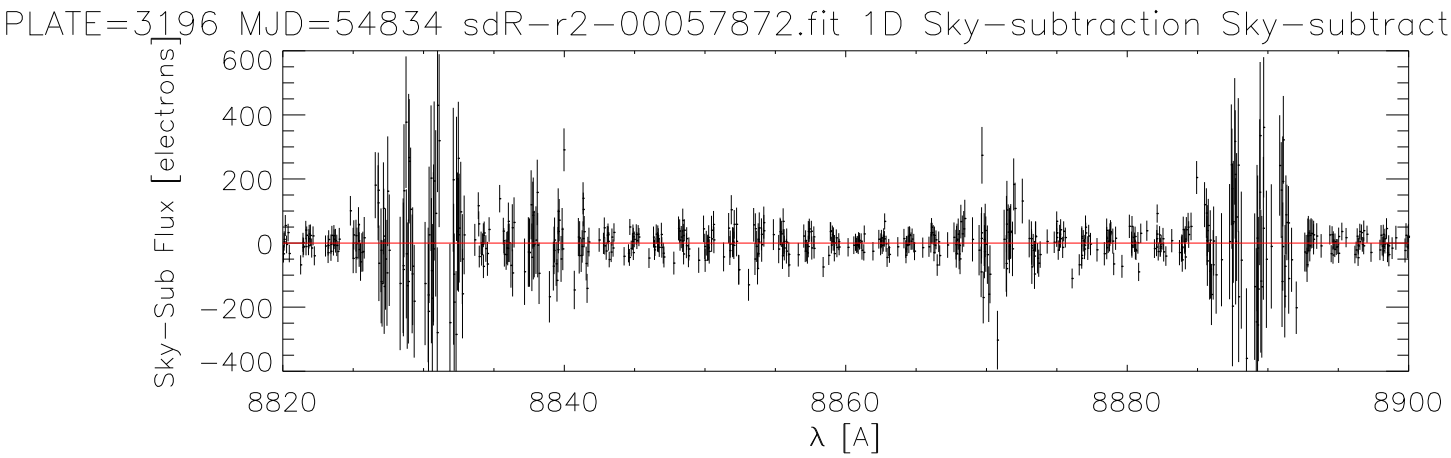

−0.06
−0.08
−0.10
−0.12
−0.14
−0.16
−0.18
sky shift, pixels
5000
6000
7000
8000
9000
10000

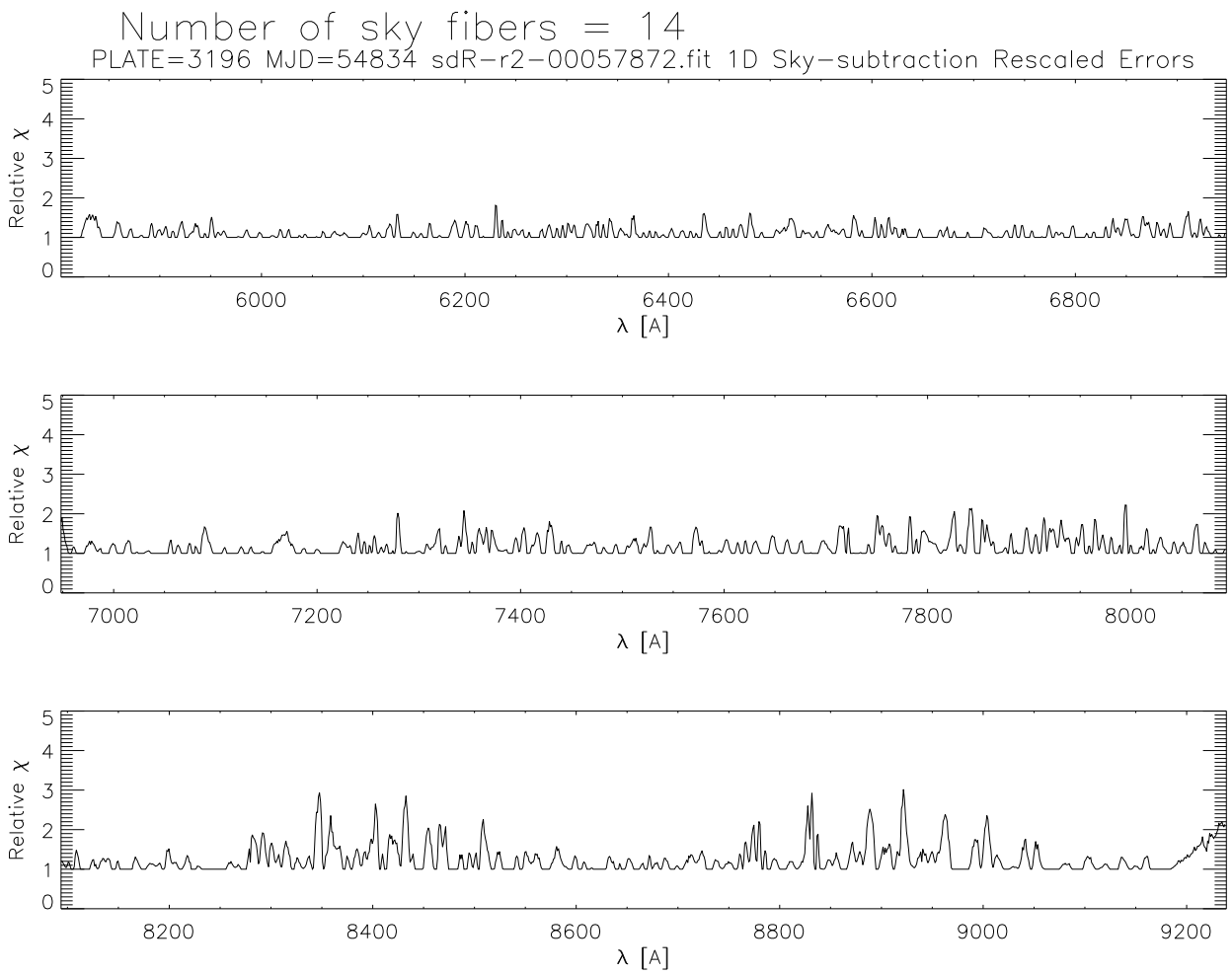
es= 0.0000

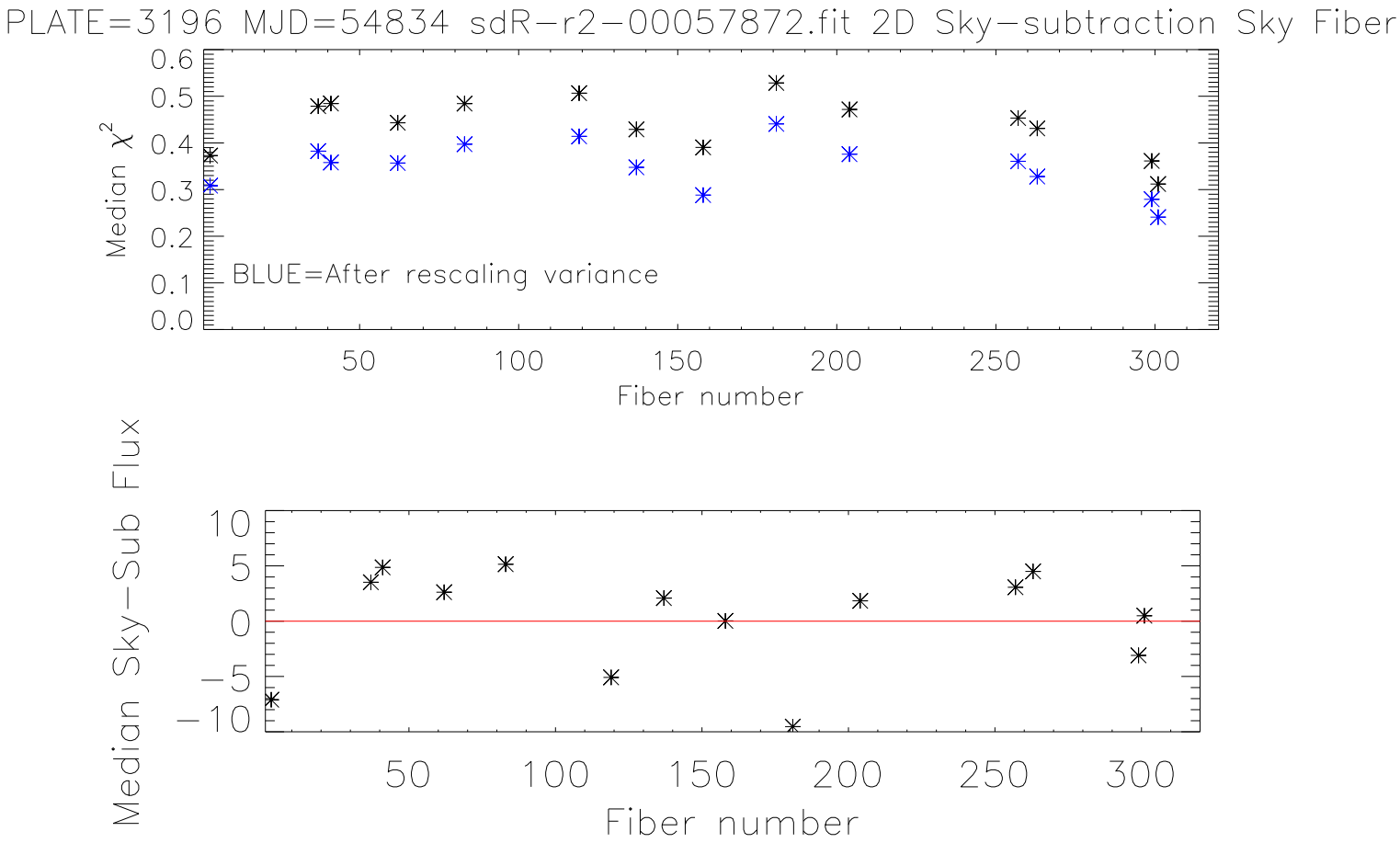

PLATE=3196 MJD=54834 Smooth superflat for sdR-r2-00057872.fit
2.0
1.5
1.0
0.5
0.0
1.02
1.01
1.00
0.99
0.98
6000
7000
8000
9000
Wavelength (Å)

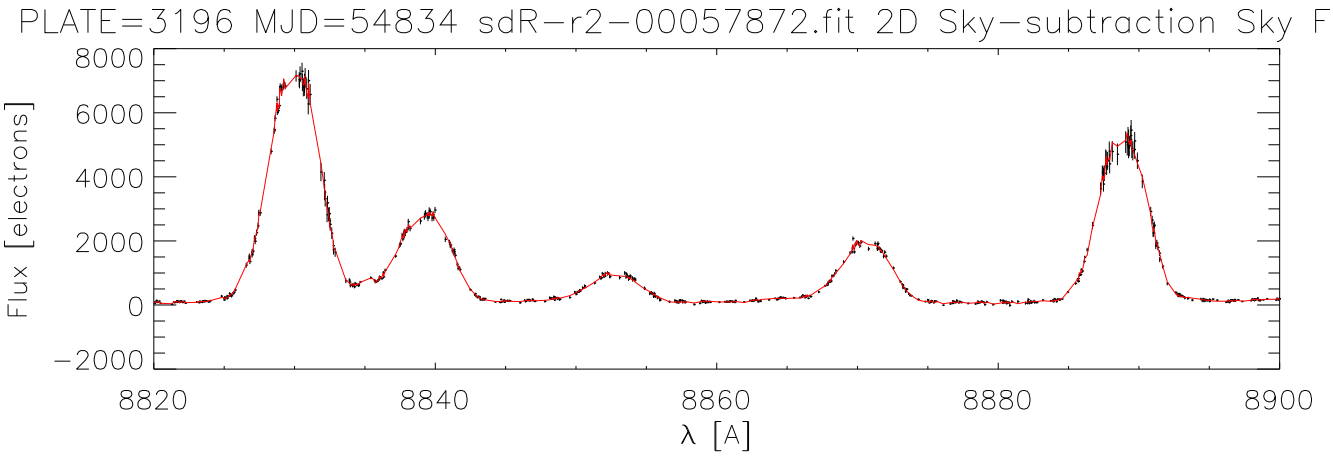

PLATE=3196 MJD=54834 sdR-r2-00057872.fit 1D Sky-subtraction Sky Fibers
Median χ^2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
0
-10
-20
50
100
150
200
250
300
Fiber number

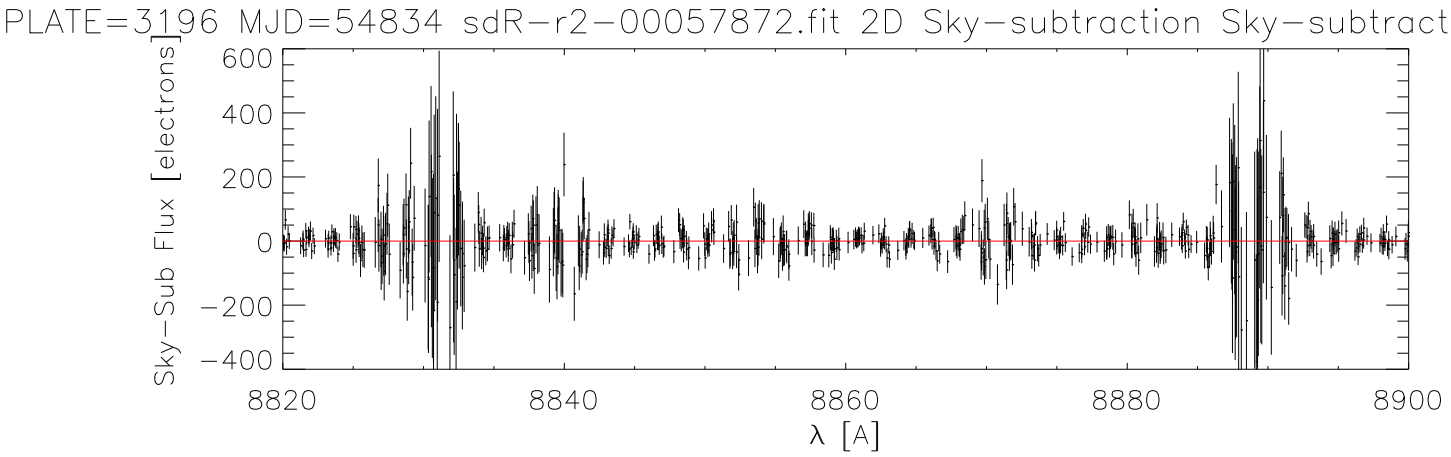

PLATE=3196 MJD=54834 sdR-r2-00057872.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
-2000
8820
8840
8860
8880
8900
λ [A]

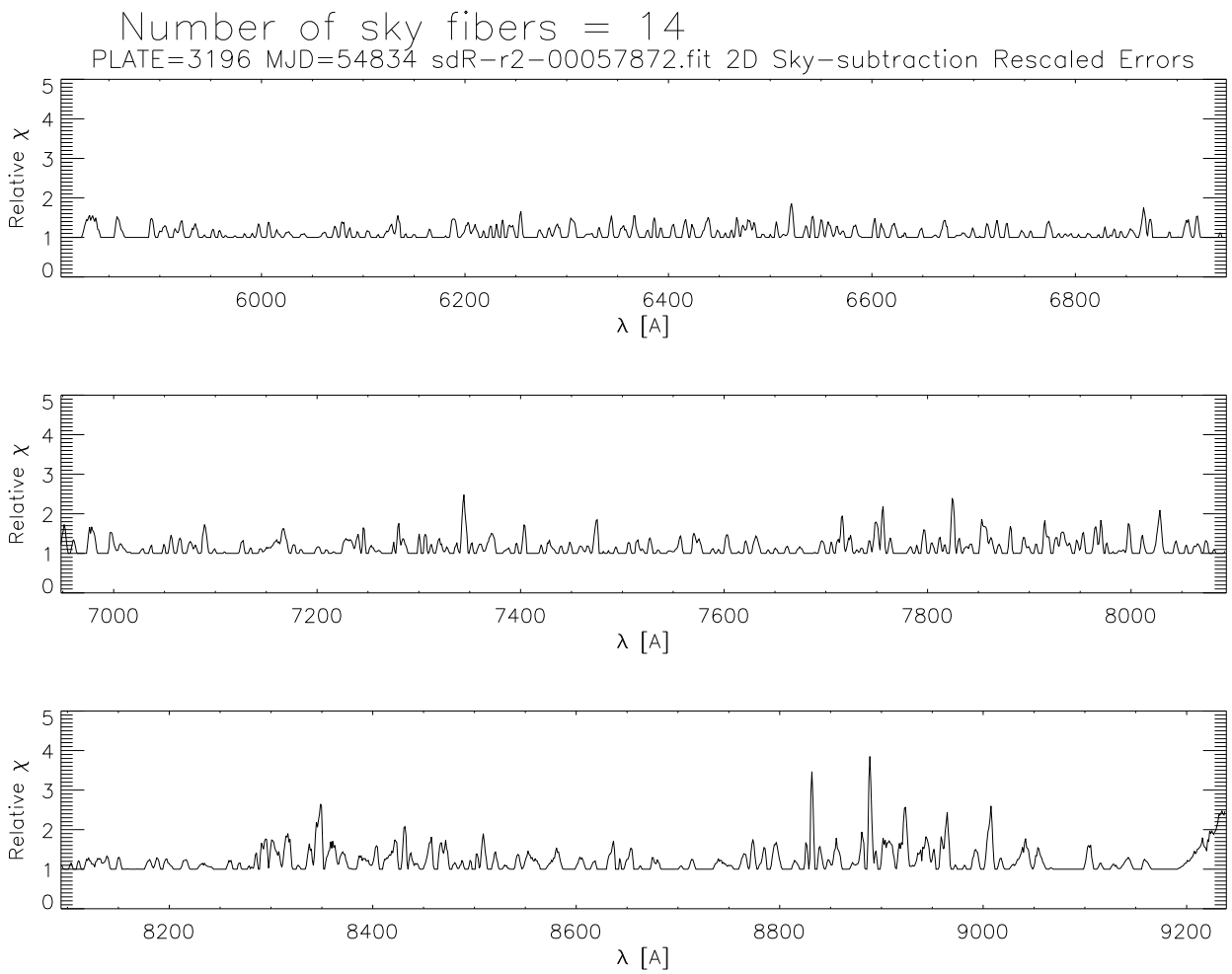

PLATE=3196 MJD=54834 sdR-r2-00057872.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

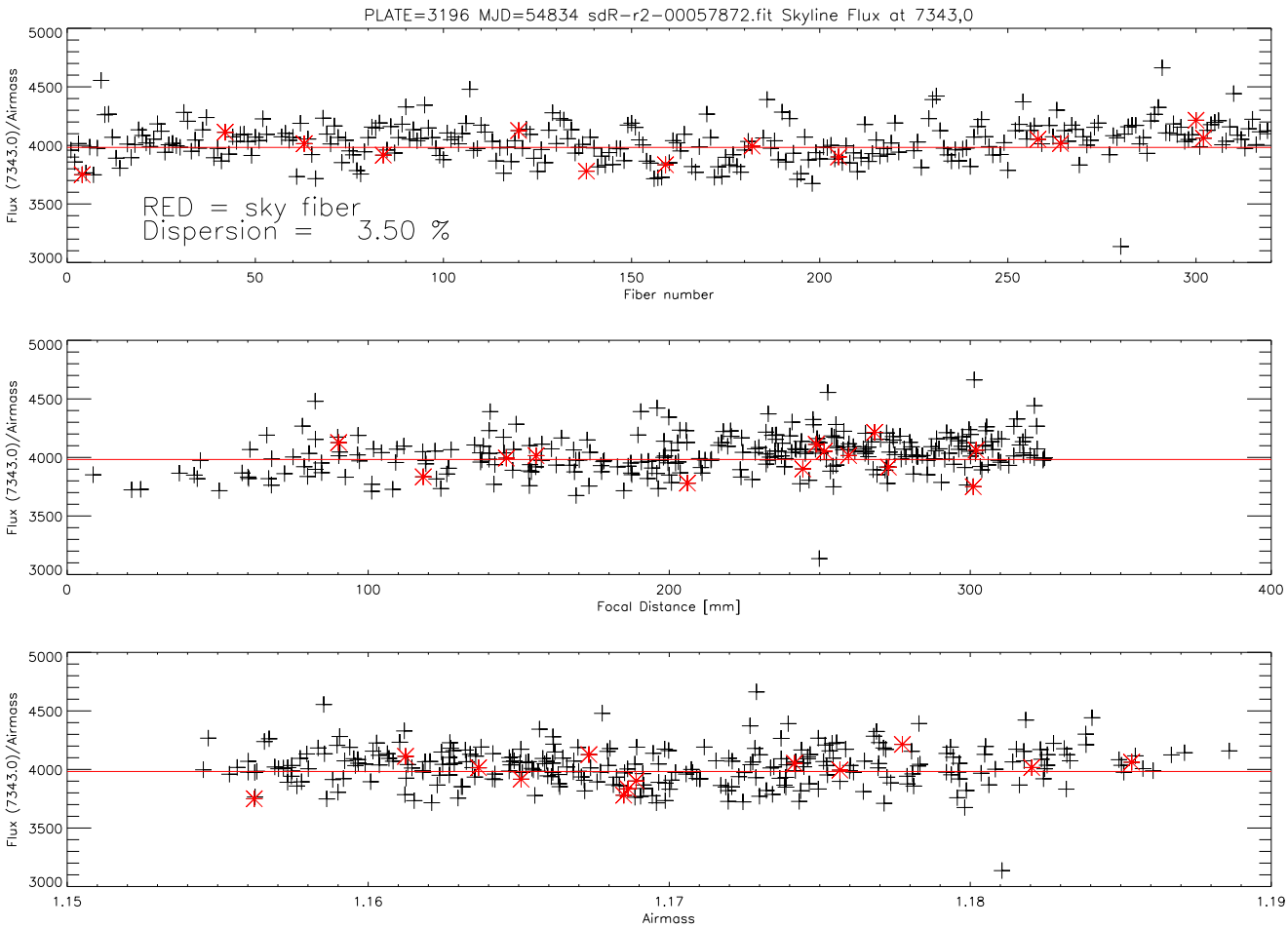

Number of sky fibers = 14
PLATE=3196 MJD=54834 sdR-r2-00057872.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

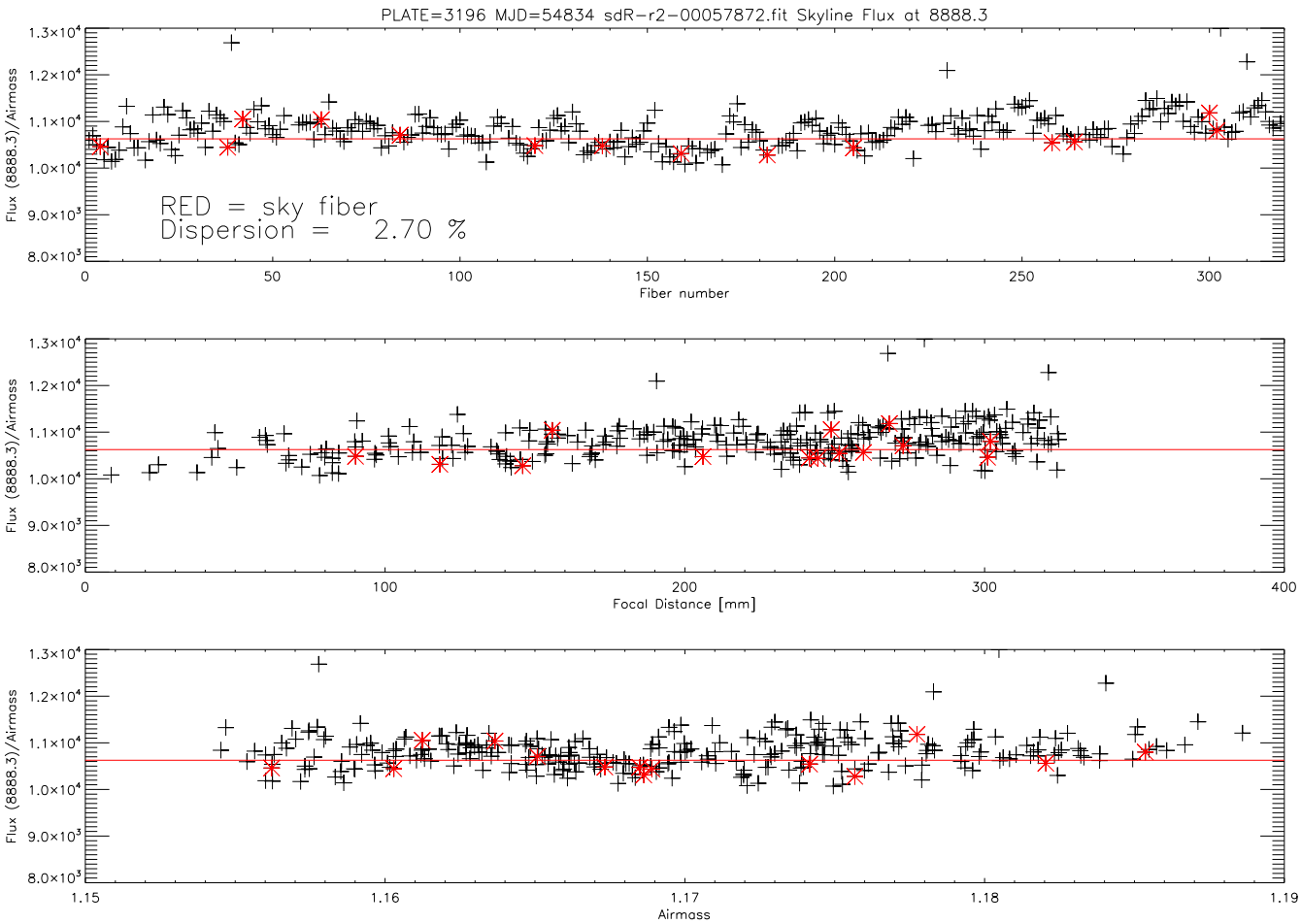

PLATE=3196 MJD=54834 sdR-r2-00057872.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

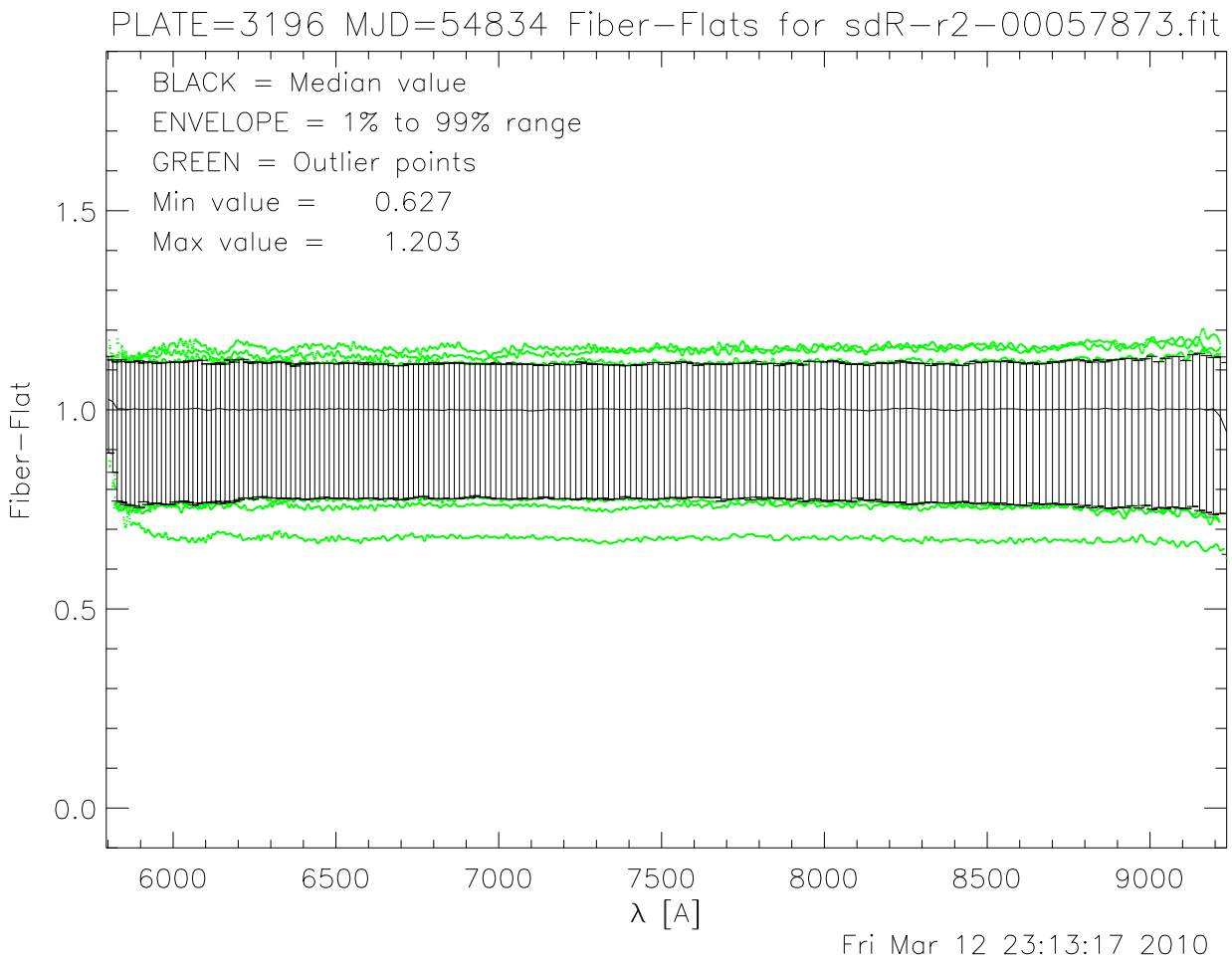

PLATE=3196 MJD=54834 sdR-r2-00057872.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
-2000
8820
8840
8860
8880
8900
λ [A]

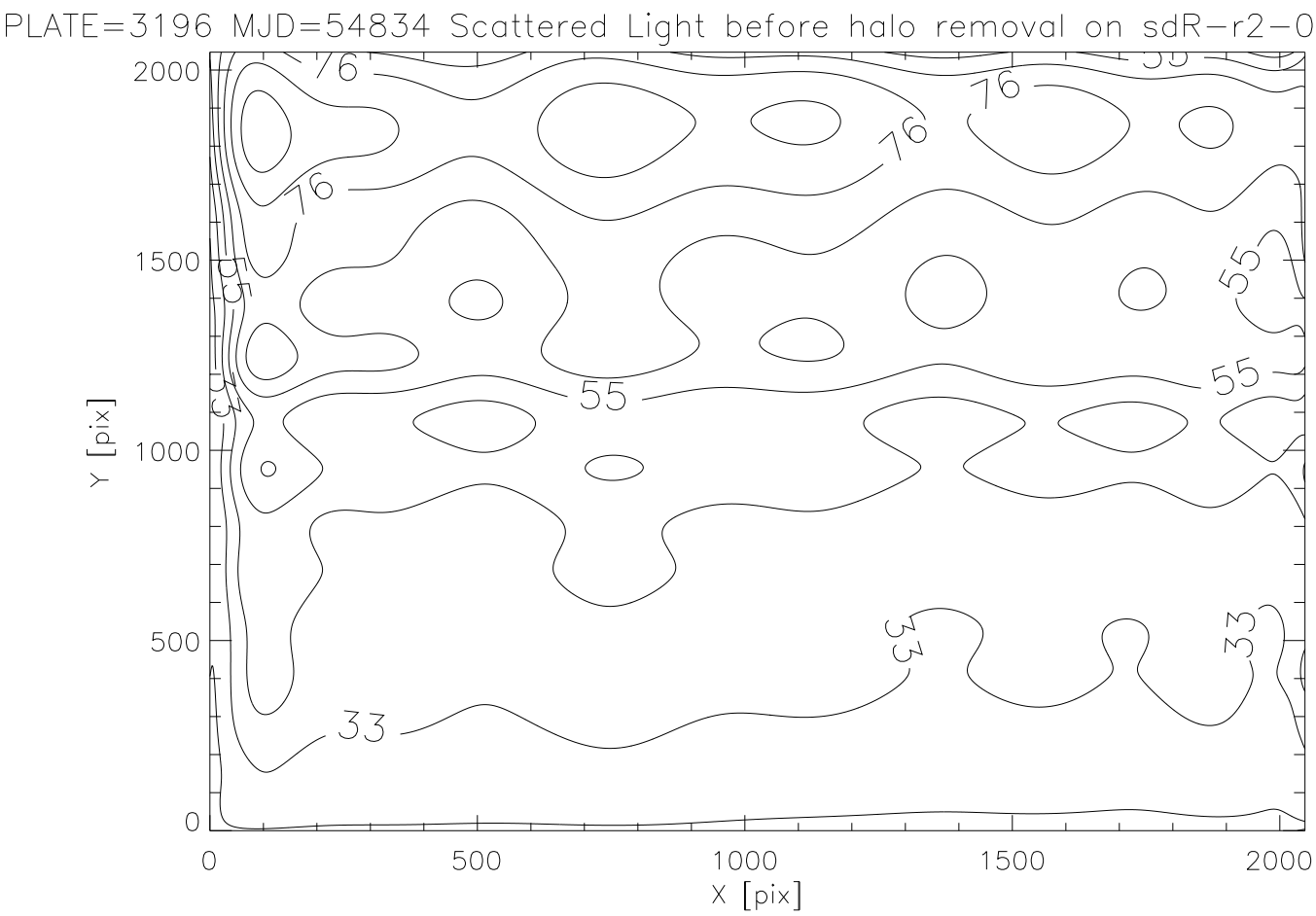

PLATE=3196 MJD=54834 sdR-r2-00057872.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

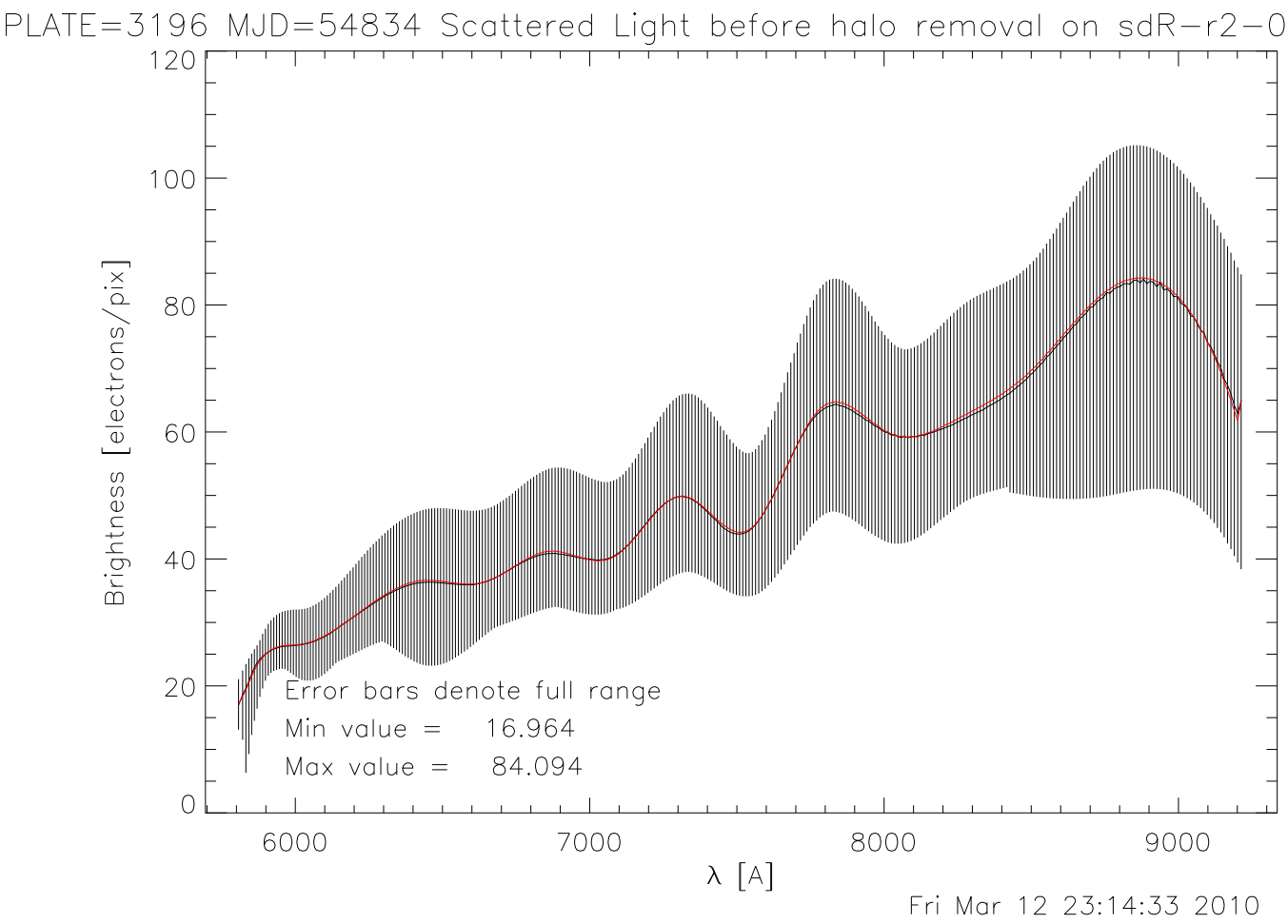

Number of sky fibers = 14
PLATE=3196 MJD=54834 sdR-r2-00057872.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

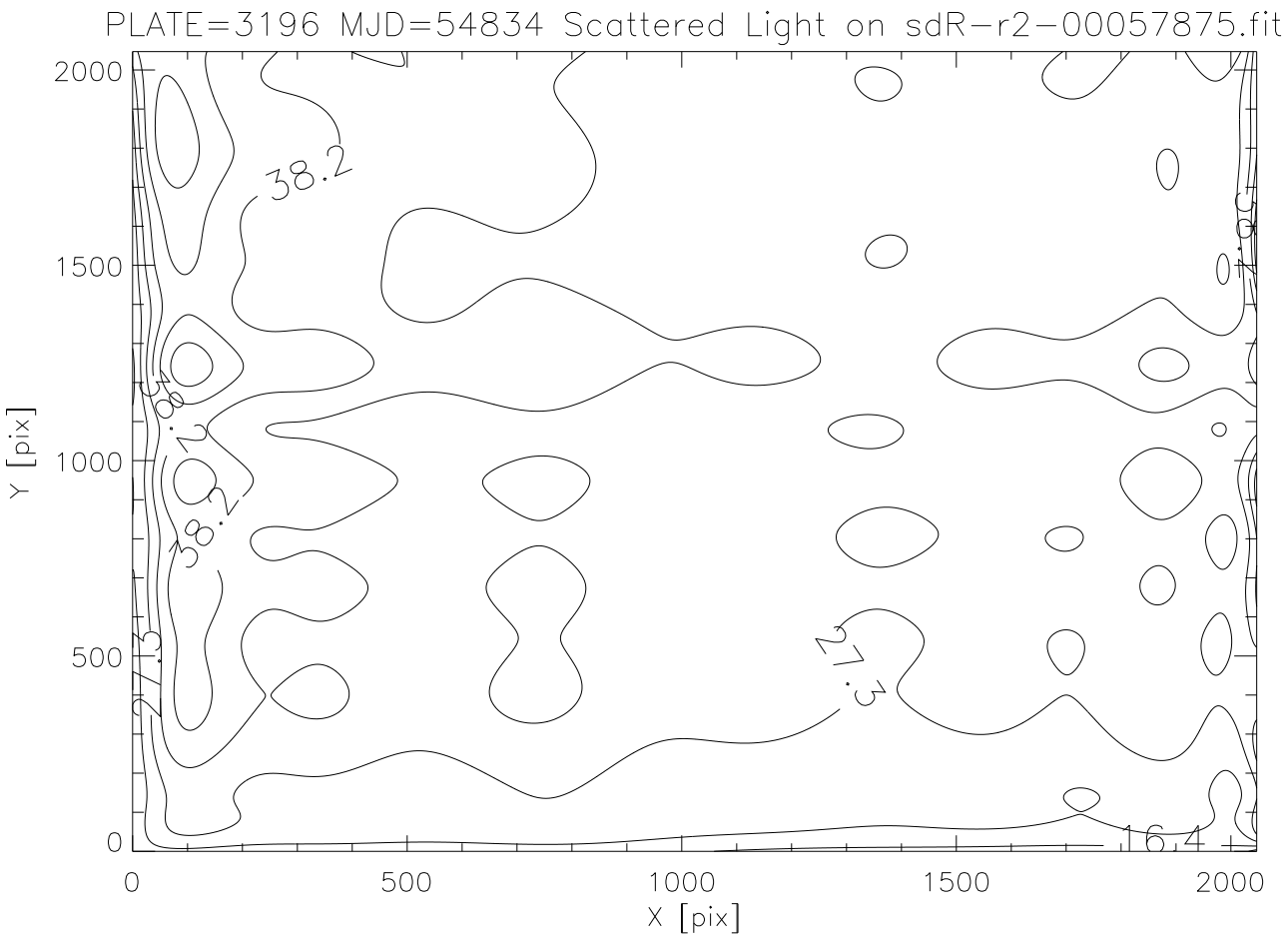

PLATE=3196 MJD=54834 sdR-r2-00057872.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.50 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

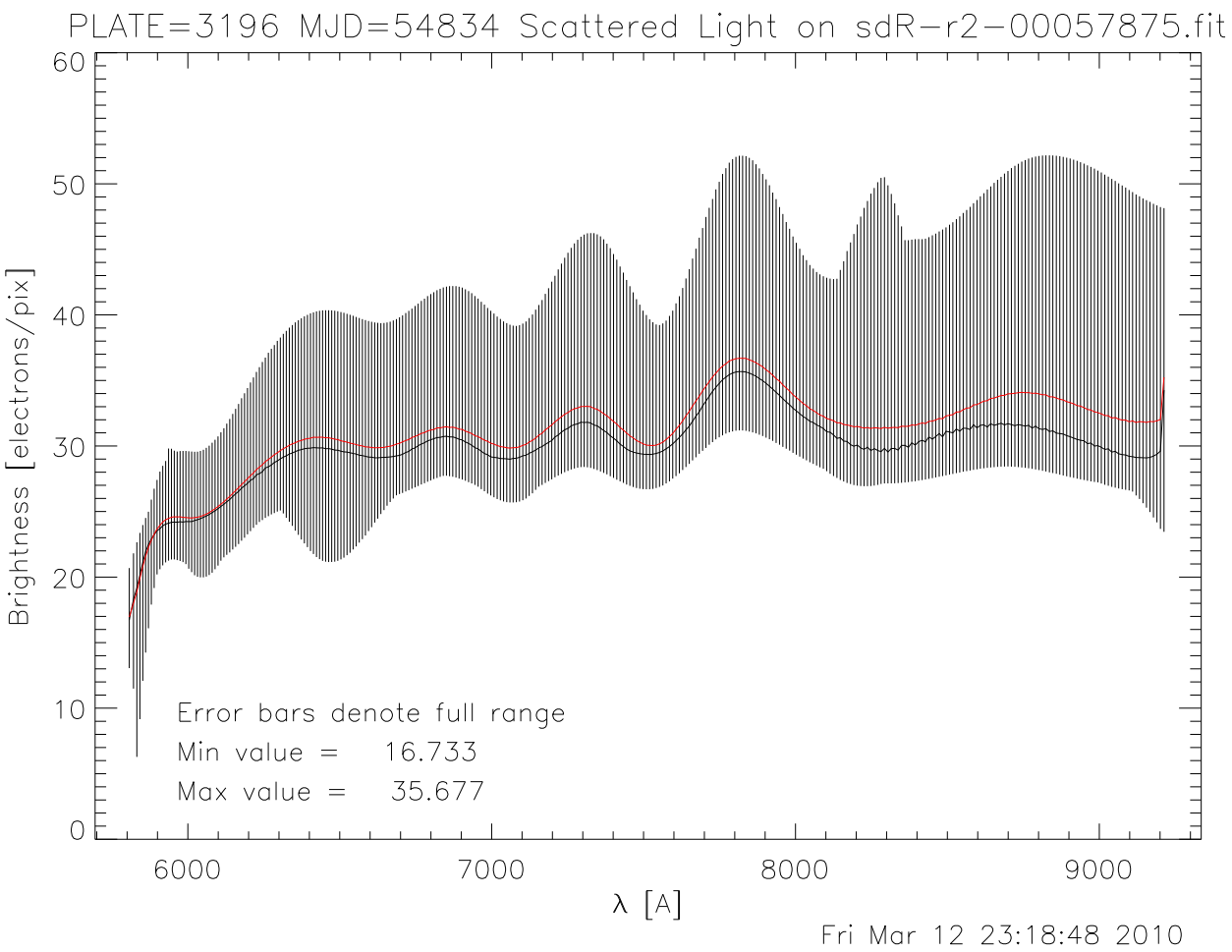

PLATE=3196 MJD=54834 sdR-r2-00057872.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.70 %
Fiber number
Focal Distance [mm]
Airmass

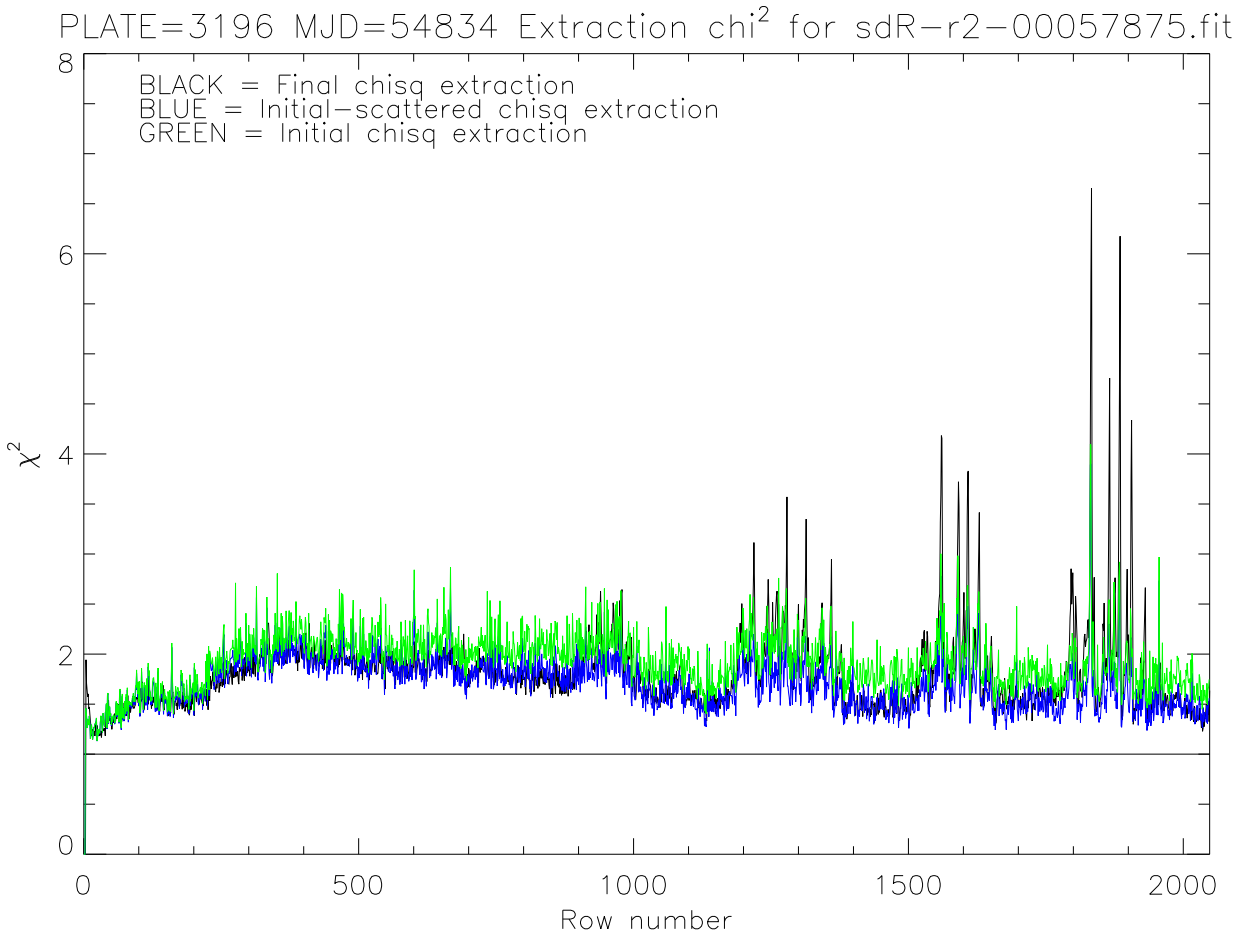

PLATE=3196 MJD=54834 Fiber−Flats for sdR−r2−00057873.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.627
Max value = 1.203
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Fri Mar 12 23:13:17 2010

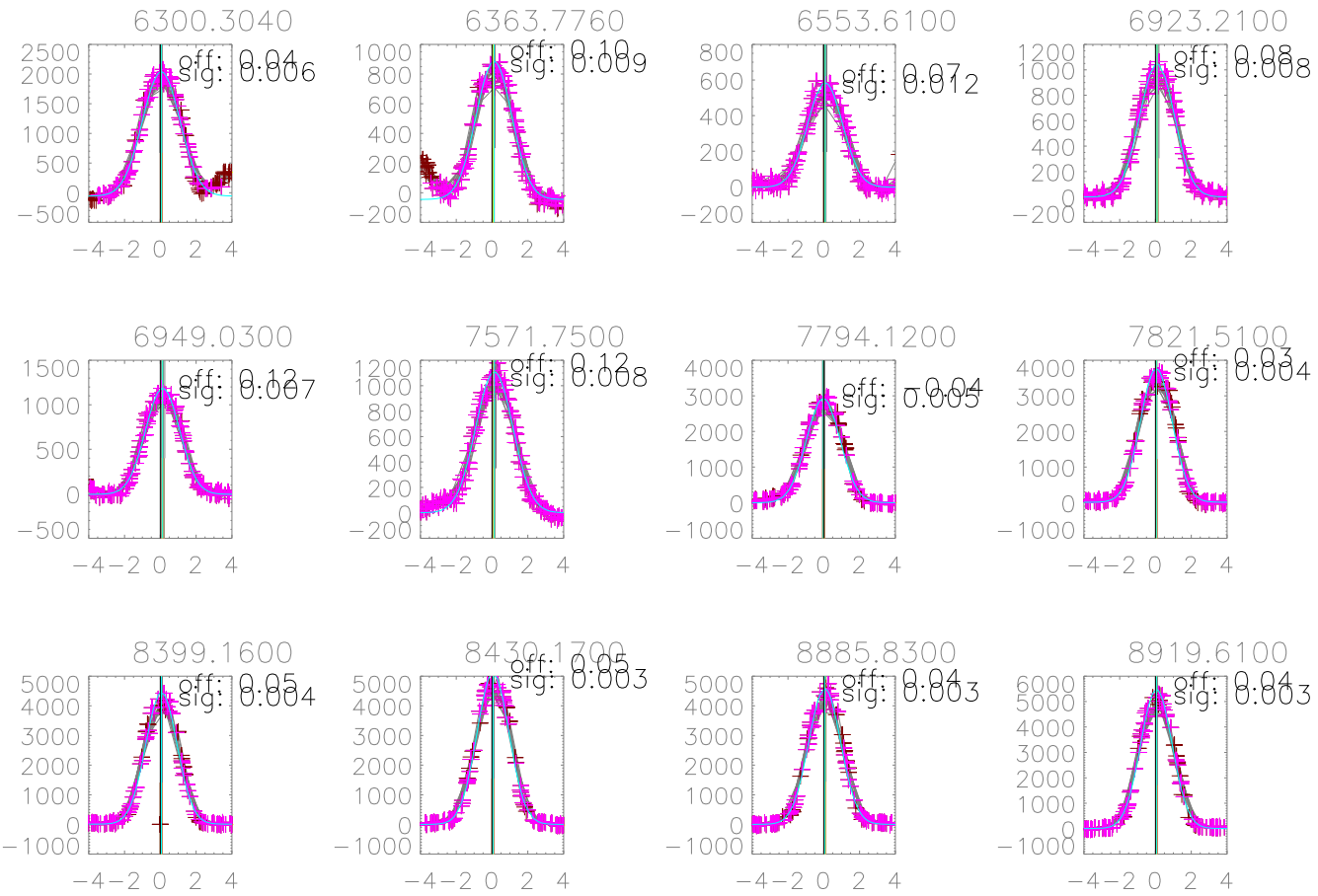

PLATE=3196 MJD=54834 Scattered Light before halo removal on sdR-r2-00057875.fi
76
55
33
Y [pix]
X [pix]
0
500
1000
1500
2000

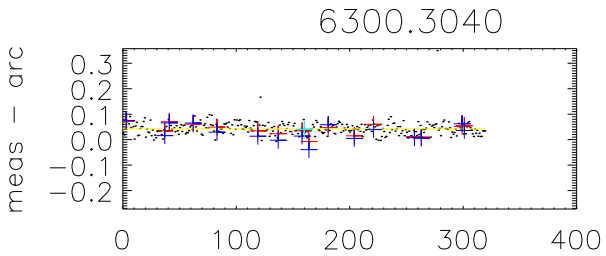

PLATE=3196 MJD=54834 Scattered Light before halo removal on sdR-r2-00057875.fi
Brightness [electrons/pix]
120
100
80
60
40
20
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 16.964
Max value = 84.094
Fri Mar 12 23:14:33 2010

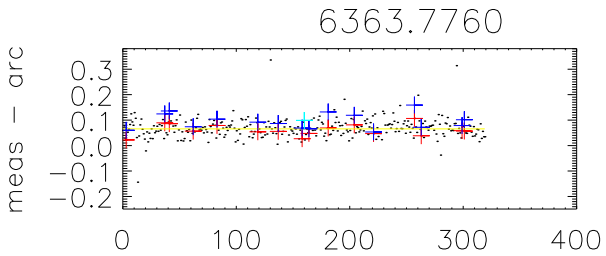

PLATE=3196 MJD=54834 Scattered Light on sdR-r2-00057875.fit
38.2
38.2
38.2
38.2
27.3
27.3
16.4
0
500
1000
1500
2000
Y [pix]
X [pix]

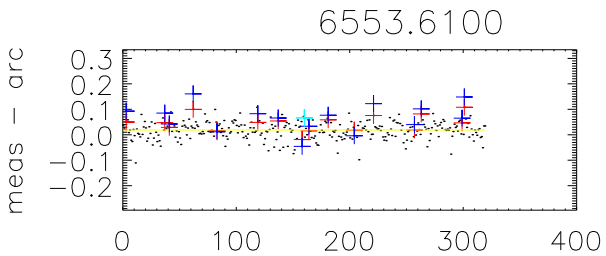

PLATE=3196 MJD=54834 Scattered Light on sdR-r2-00057875.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 16.733
Max value = 35.677
Fri Mar 12 23:18:48 2010

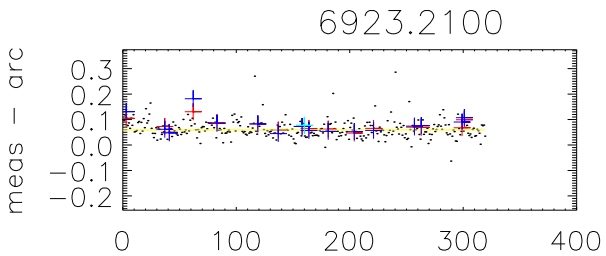

PLATE=3196 MJD=54834 Extraction chi^2 for sdR-r2-00057875.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

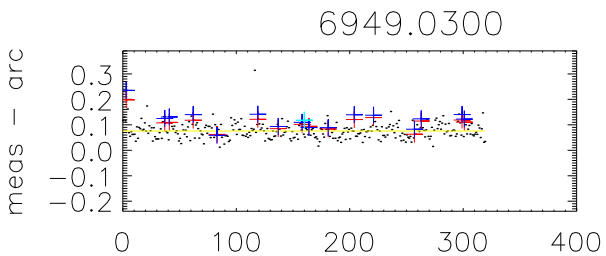

6300.3040
off: 0.04
sig: 0.006
6363.7760
off: 0.10
sig: 0.009
6553.6100
off: 0.07
sig: 0.012
6923.2100
off: 0.08
sig: 0.008
6949.0300
off: 0.12
sig: 0.007
7571.7500
off: 0.12
sig: 0.008
7794.1200
off: -0.04
sig: 0.005
7821.5100
off: 0.03
sig: 0.004
8399.1600
off: 0.05
sig: 0.004
8430.1700
off: 0.05
sig: 0.003
8885.8300
off: 0.04
sig: 0.003
8919.6100
off: 0.04
sig: 0.003

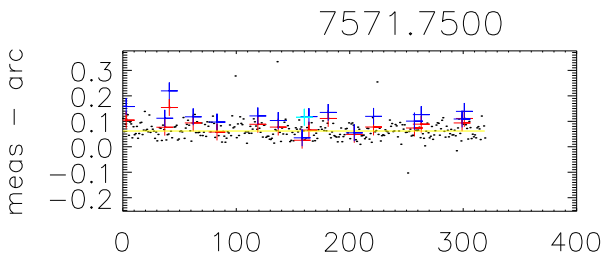

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

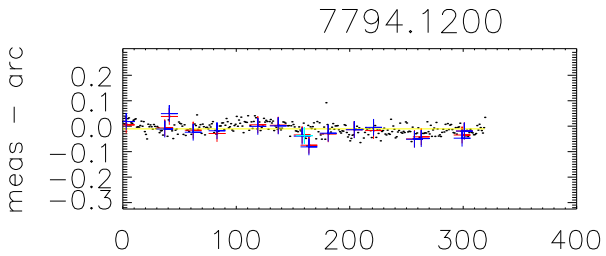

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

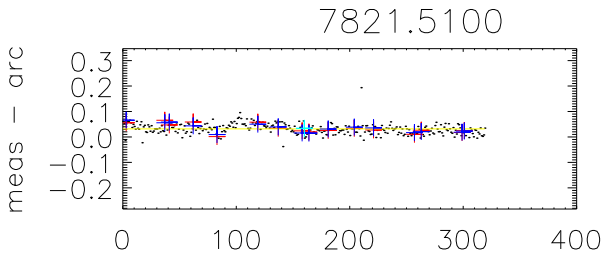

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

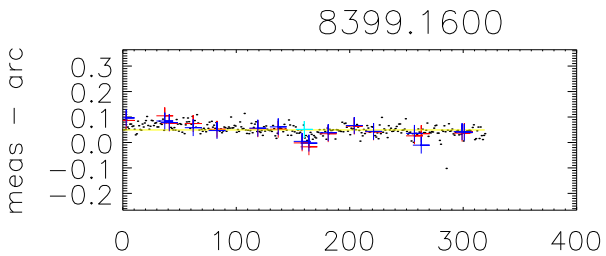

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

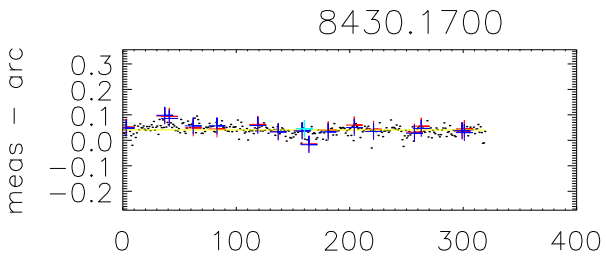

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

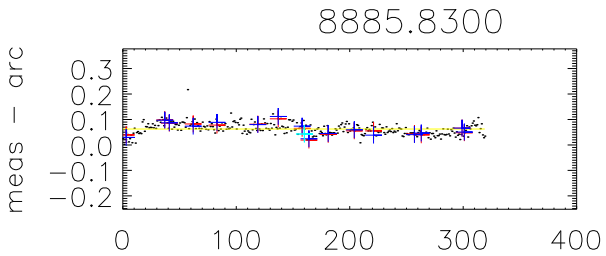

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

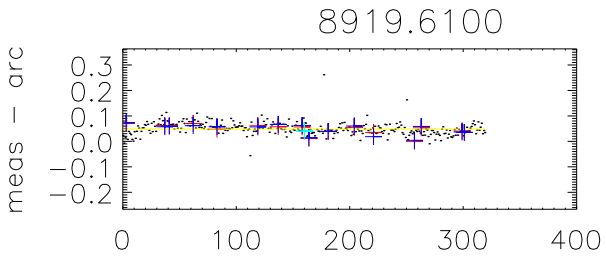

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

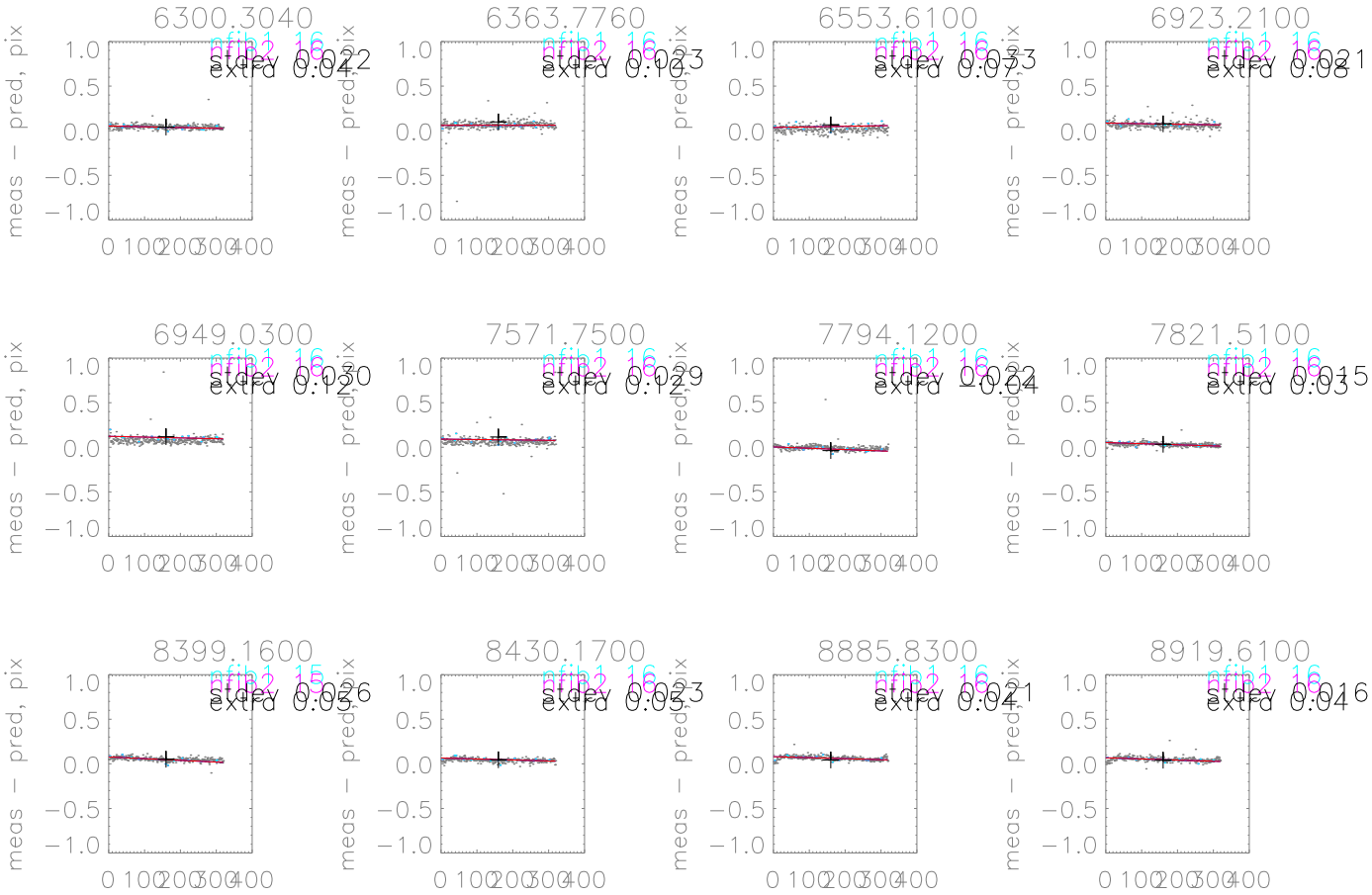

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

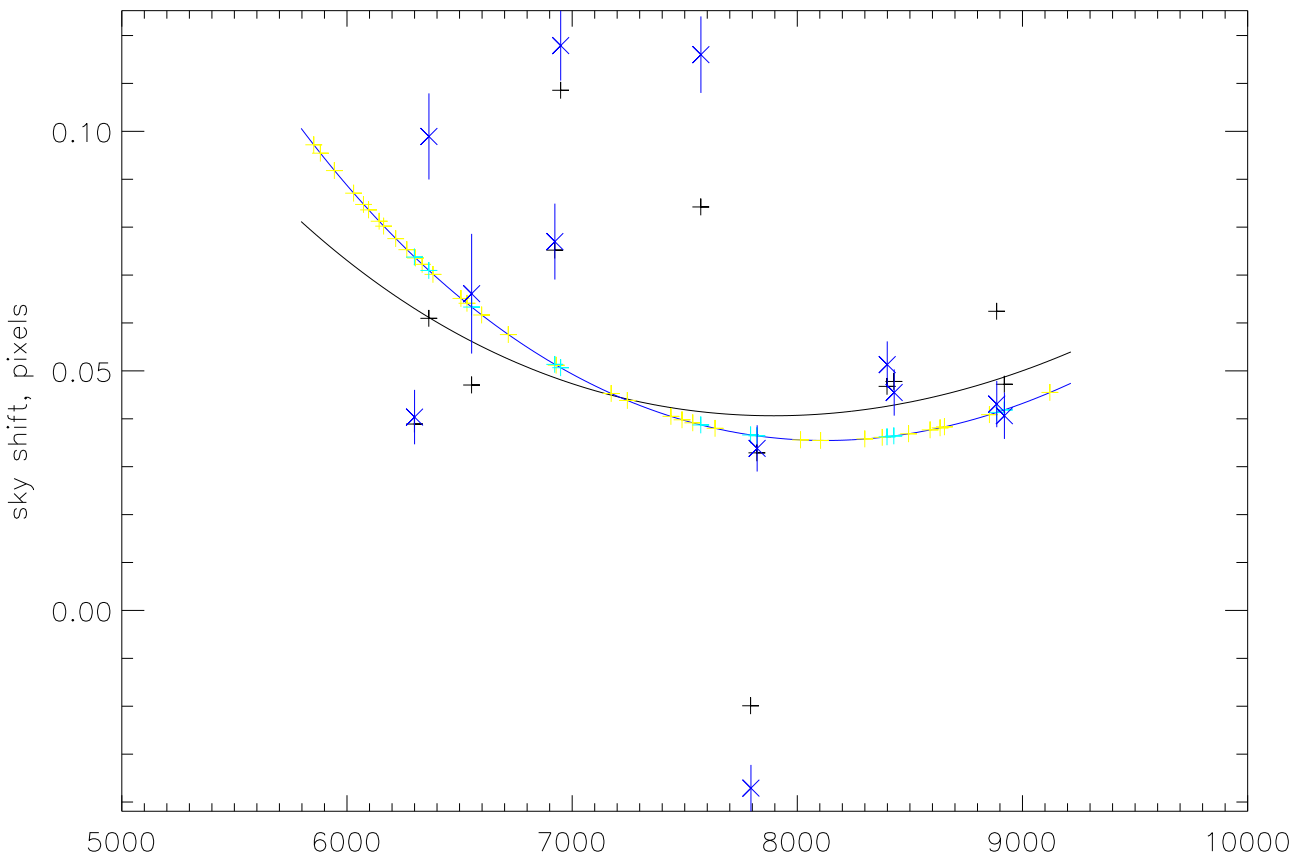

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

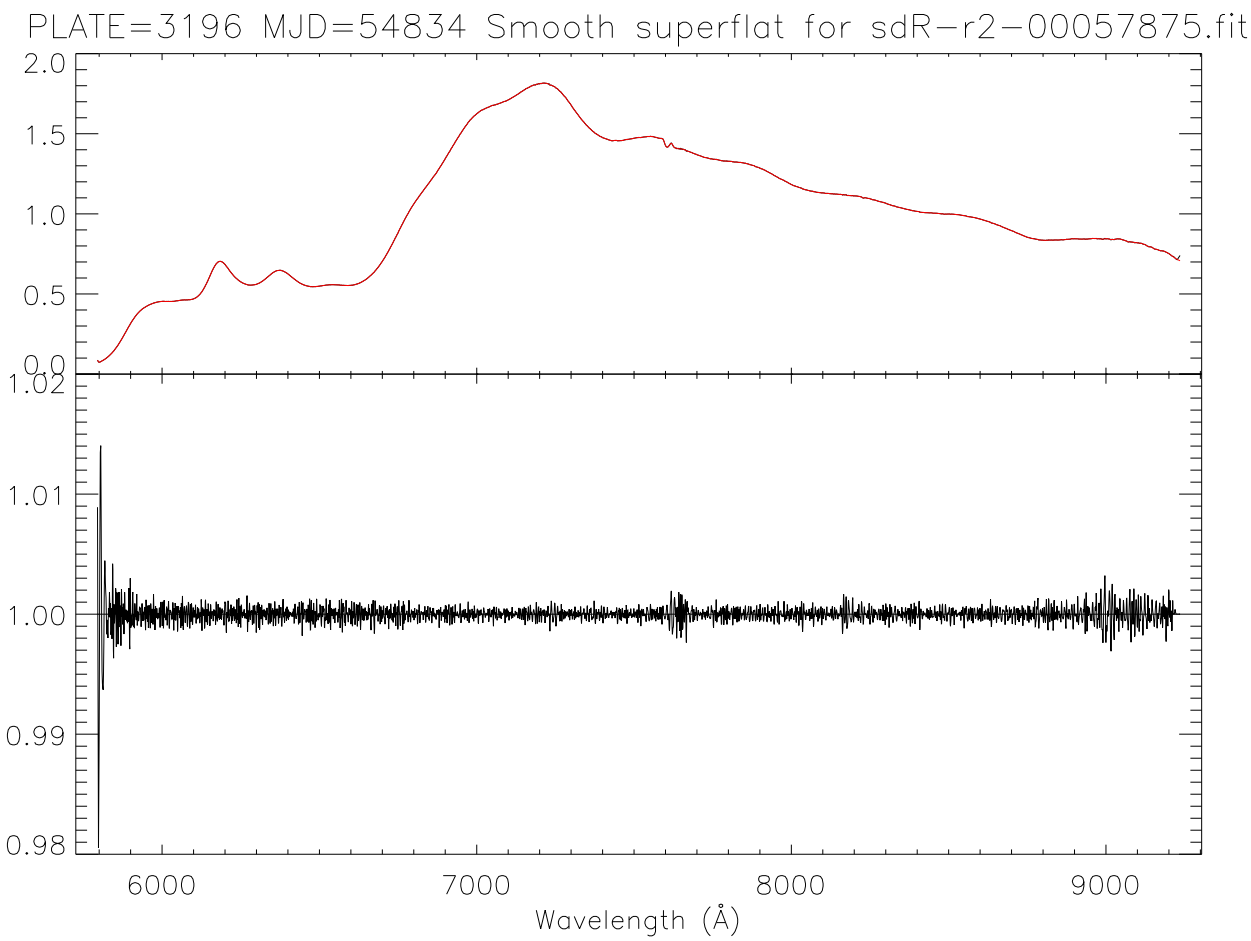

8885.8300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

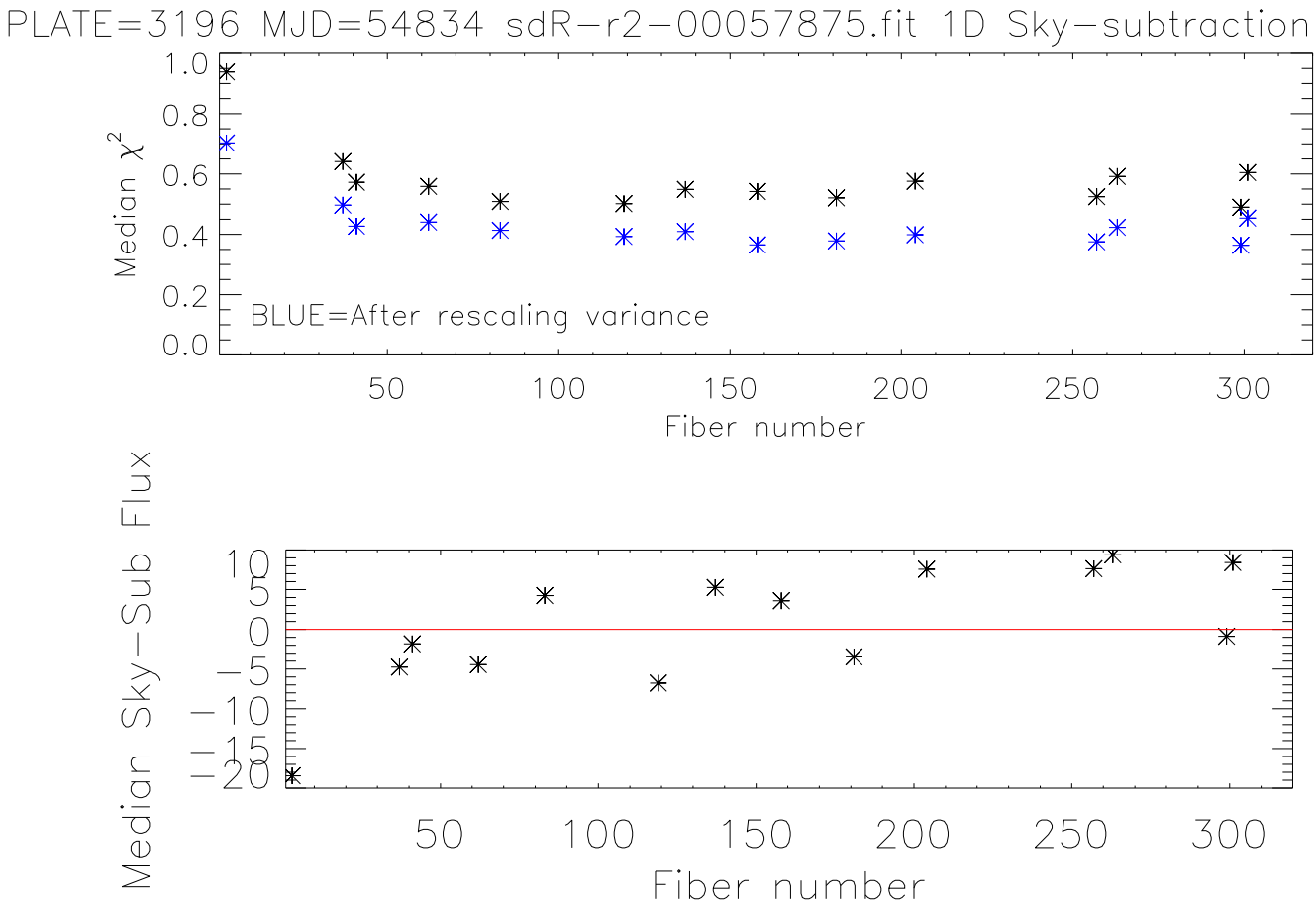

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

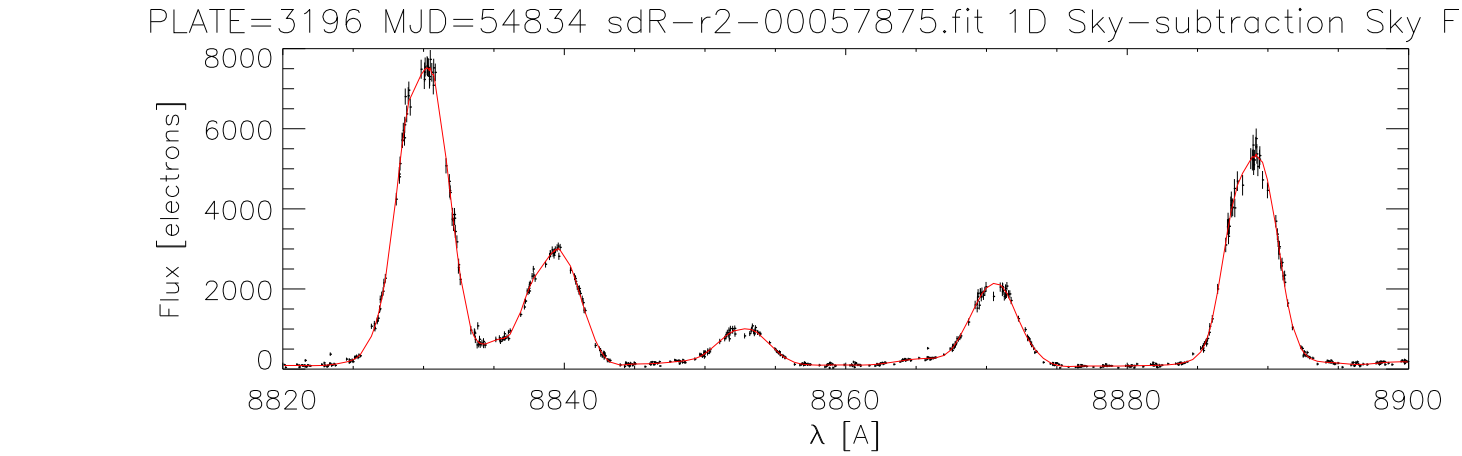

6300.3040
stdev 0.022
extra 0.04
6363.7760
stdev 0.023
extra 0.16
6553.6100
stdev 0.033
extra 0.07
6923.2100
stdev 0.021
extra 0.08
6949.0300
stdev 0.030
extra 0.12
7571.7500
stdev 0.029
extra 0.12
7794.1200
stdev 0.022
extra −0.04
7821.5100
stdev 0.015
extra 0.03
8399.1600
stdev 0.026
extra 0.03
8430.1700
stdev 0.023
extra 0.03
8885.8300
stdev 0.021
extra 0.04
8919.6100
stdev 0.016
extra 0.04
meas − pred, pix

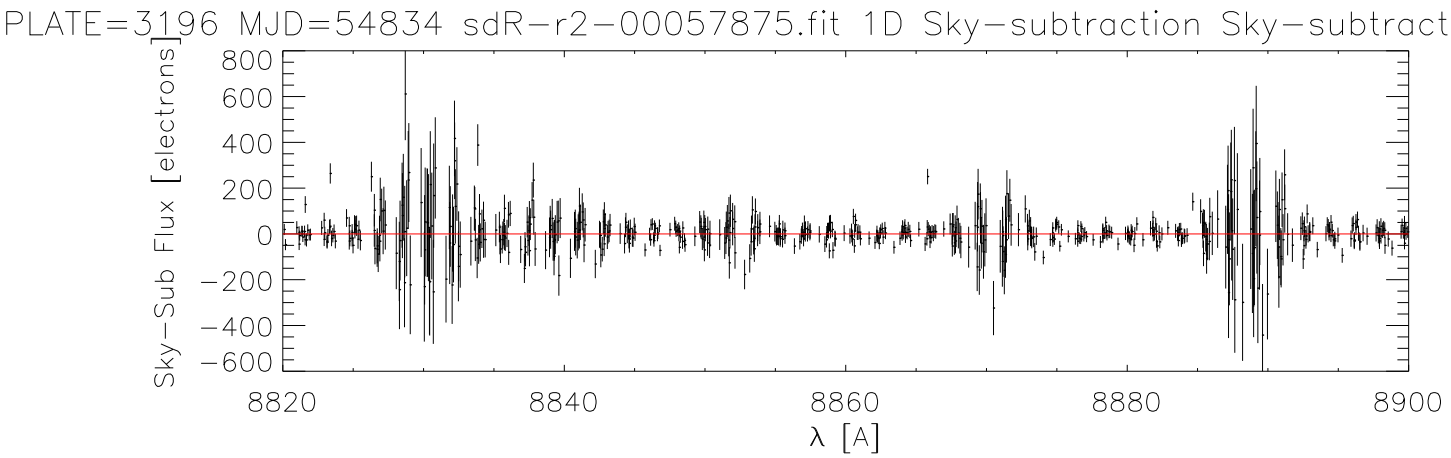

sky shift, pixels
0.10
0.05
0.00
5000
6000
7000
8000
9000
10000

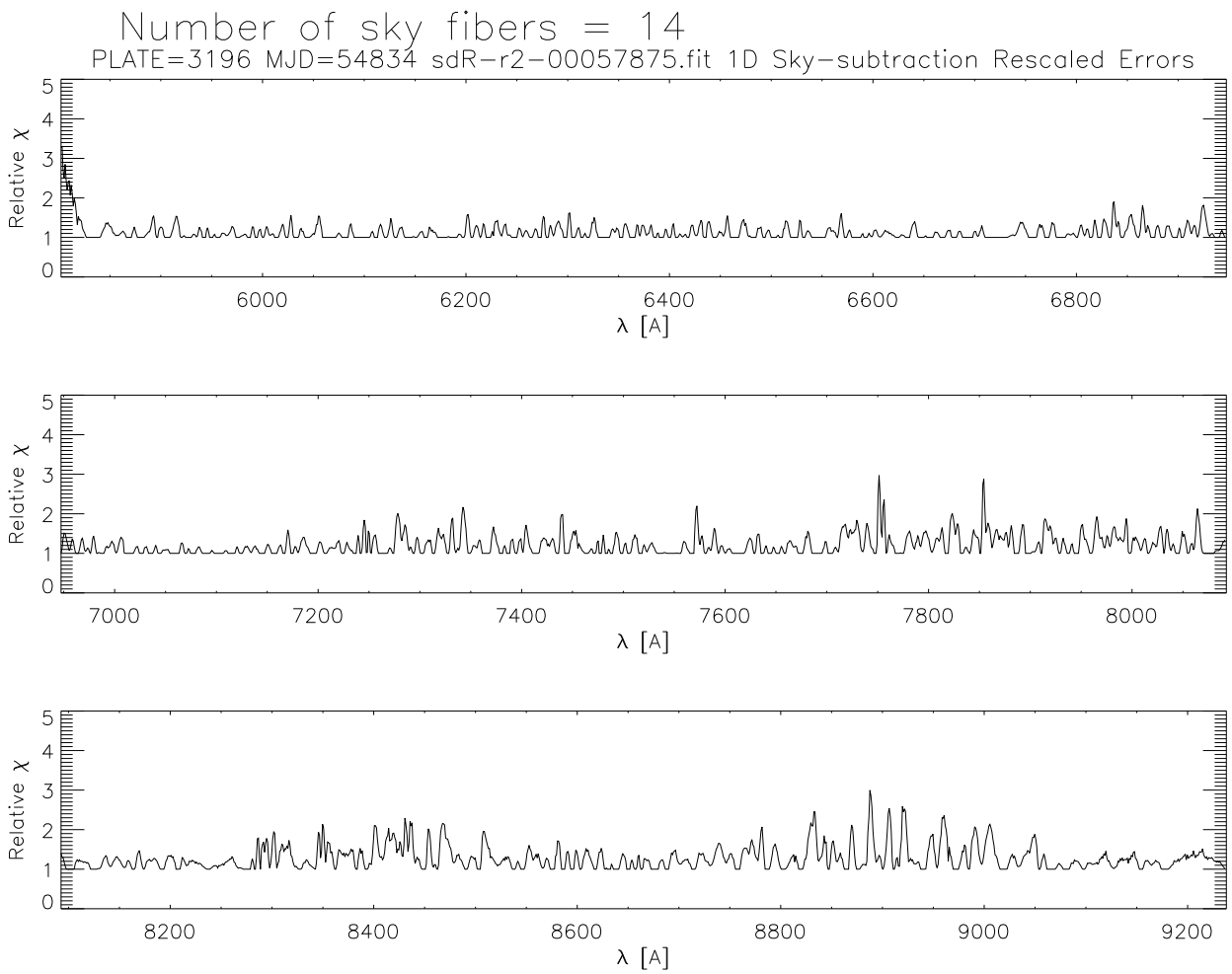
es= 0.0000

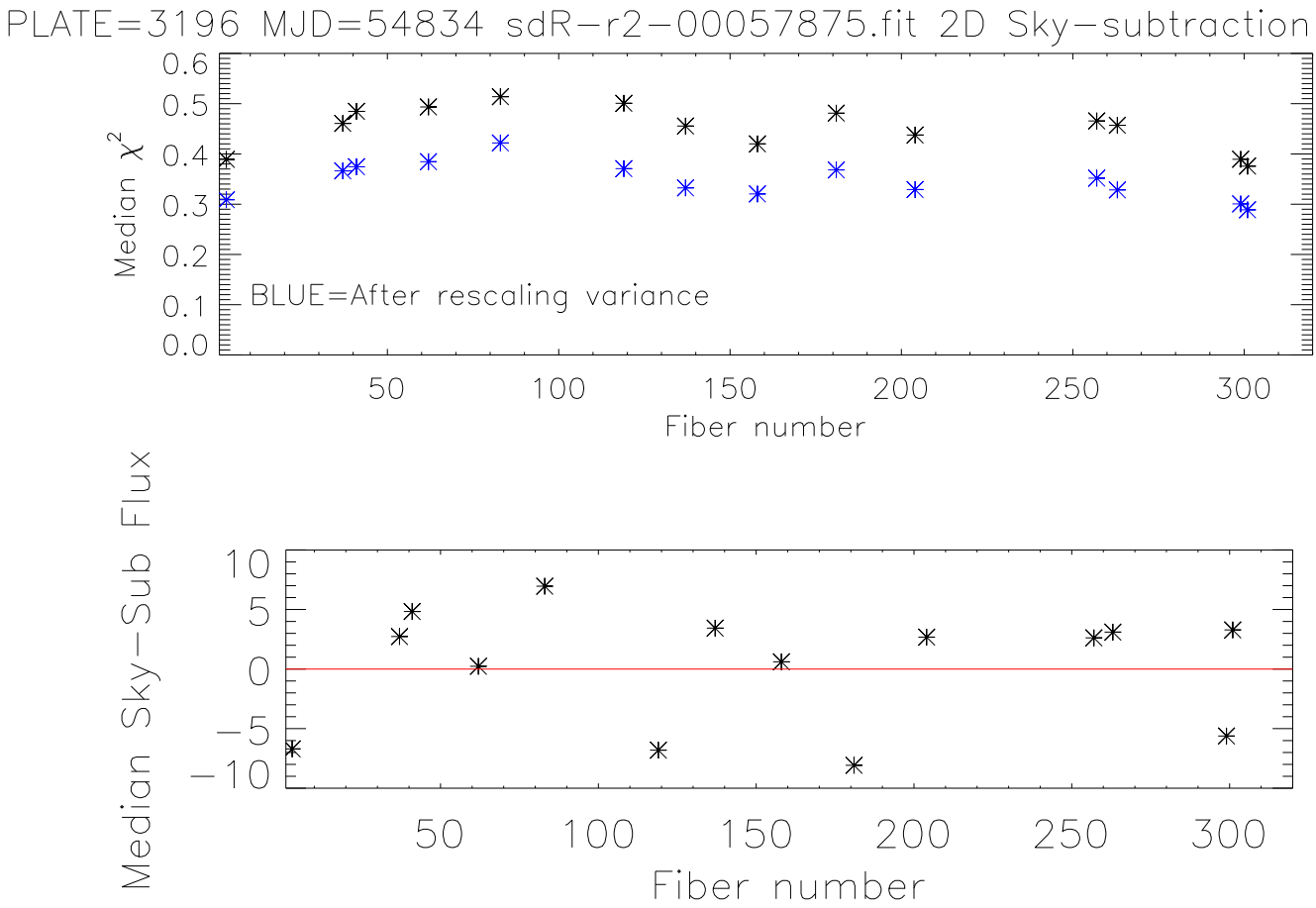

PLATE=3196 MJD=54834 Smooth superflat for sdR-r2-00057875.fit
2.0
1.5
1.0
0.5
0.0
1.02
1.01
1.00
0.99
0.98
6000
7000
8000
9000
Wavelength (Å)

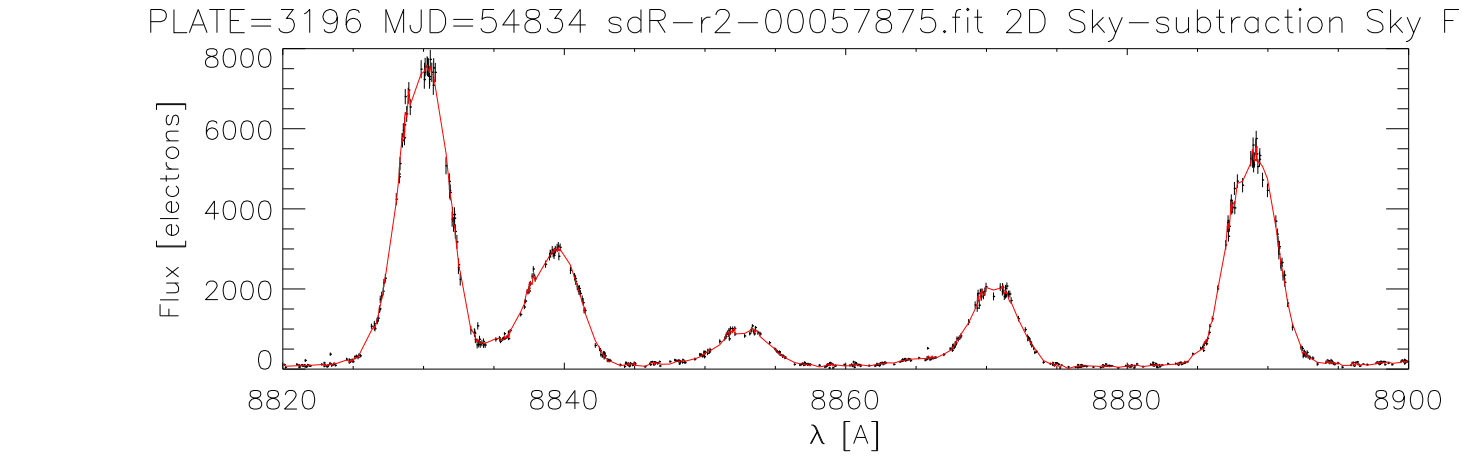

PLATE=3196 MJD=54834 sdR-r2-00057875.fit 1D Sky-subtraction Sky Fibers
Median χ^2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
-20
50
100
150
200
250
300
Fiber number

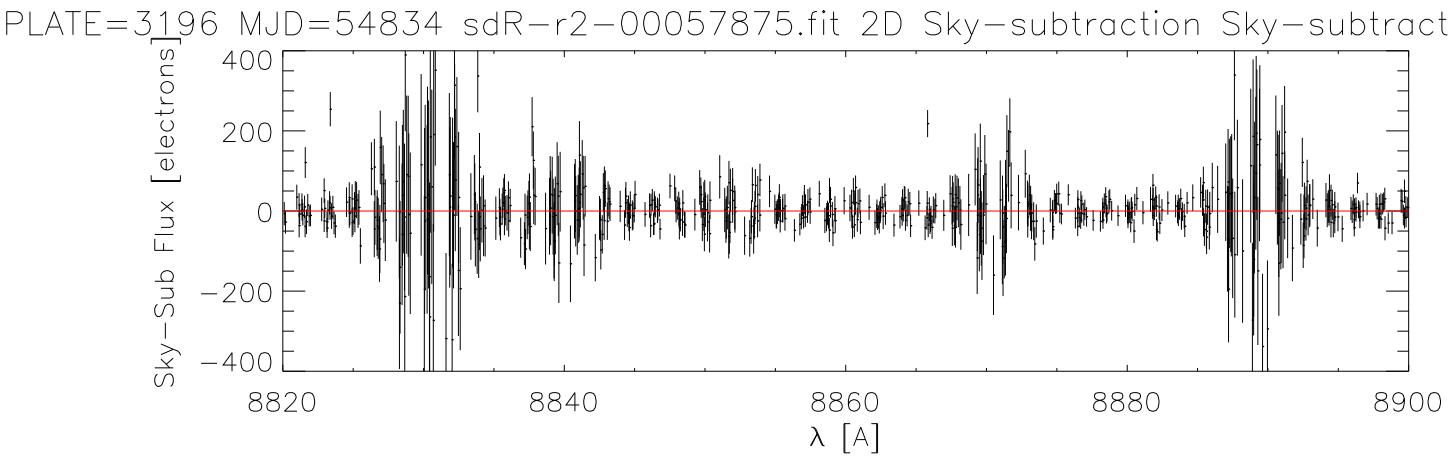

PLATE=3196 MJD=54834 sdR-r2-00057875.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

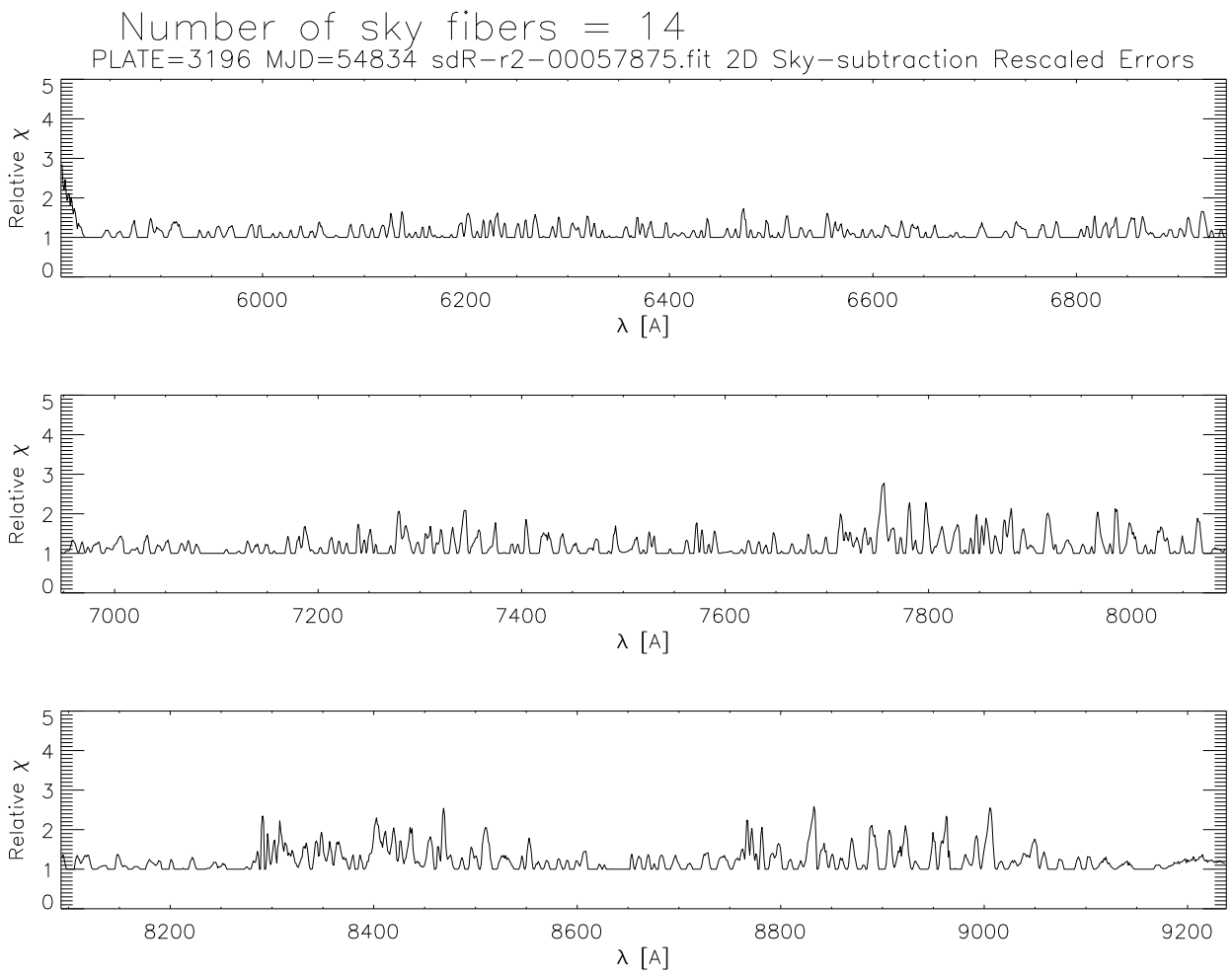

PLATE=3196 MJD=54834 sdR-r2-00057875.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
-400
-600
8820
8840
8860
8880
8900
λ [A]

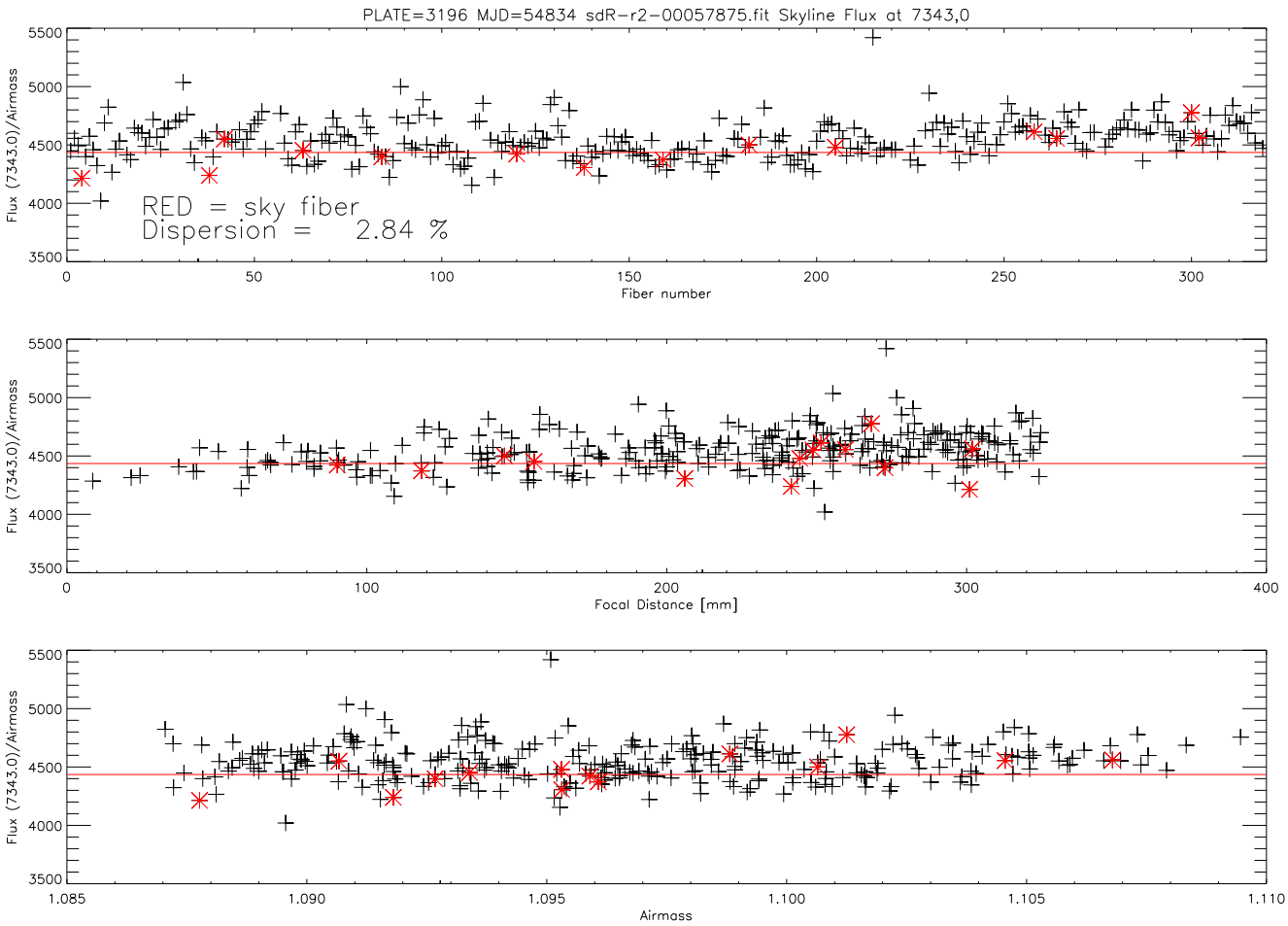

Number of sky fibers = 14
PLATE=3196 MJD=54834 sdR-r2-00057875.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

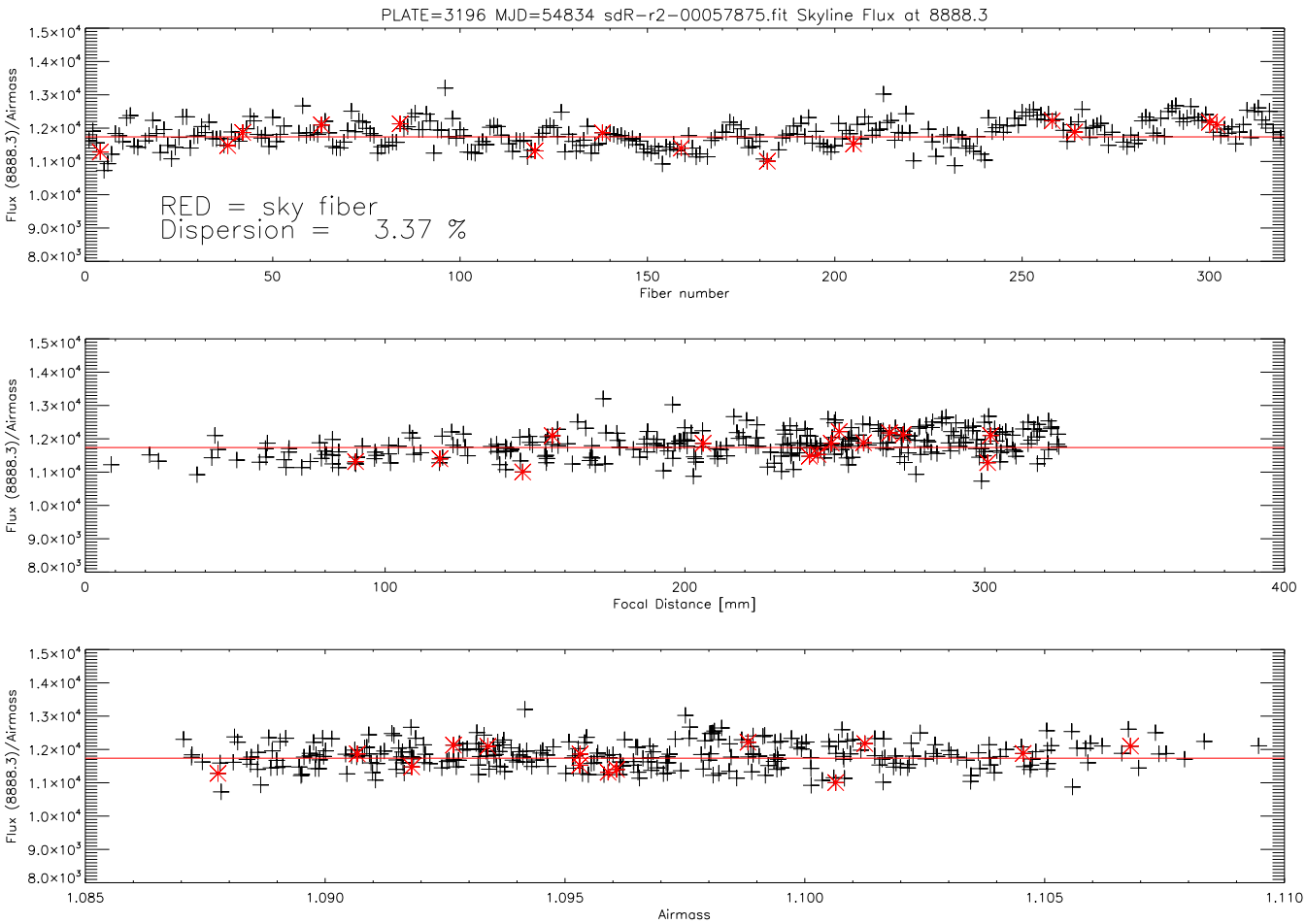

PLATE=3196 MJD=54834 sdR-r2-00057875.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

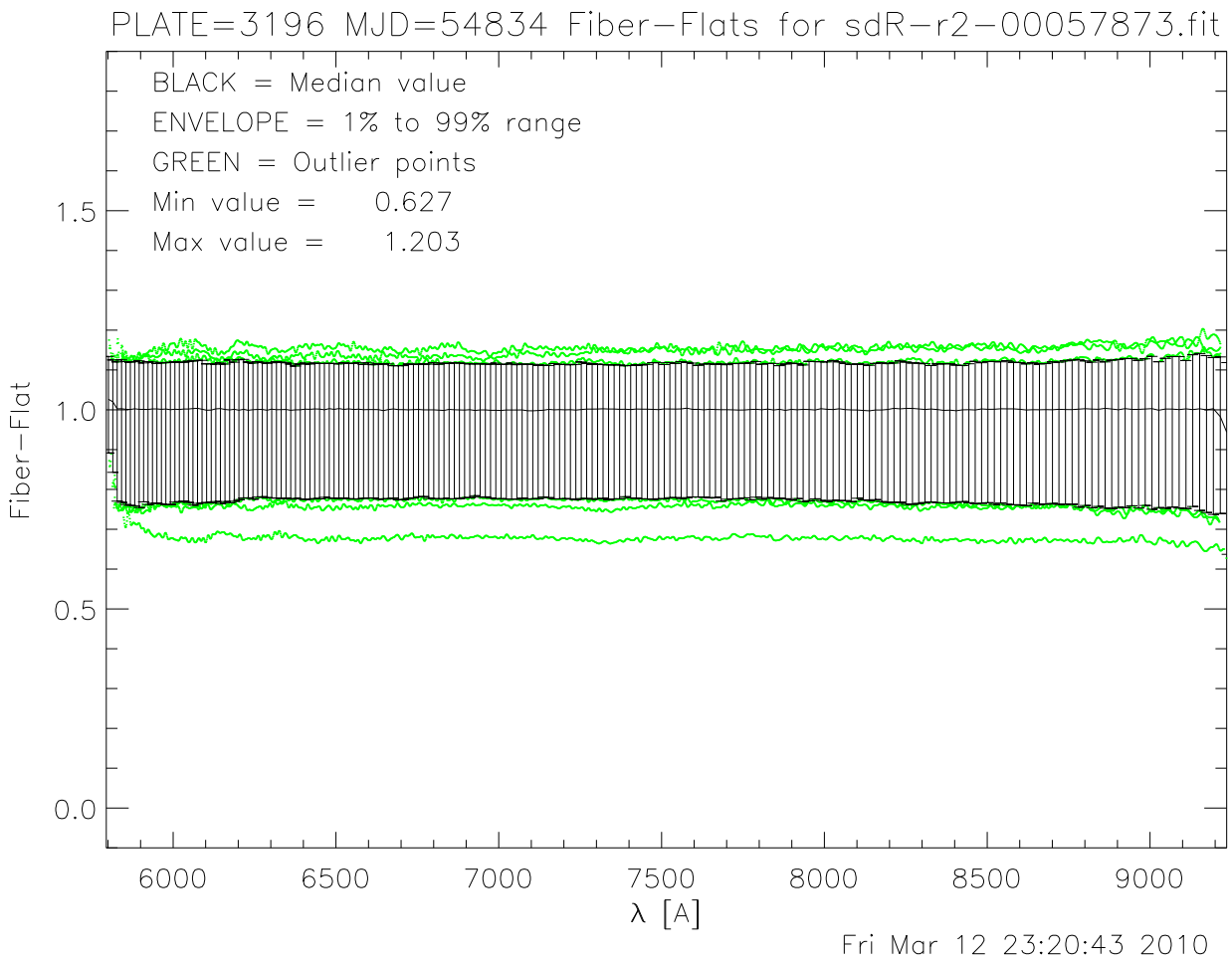

PLATE=3196 MJD=54834 sdR-r2-00057875.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

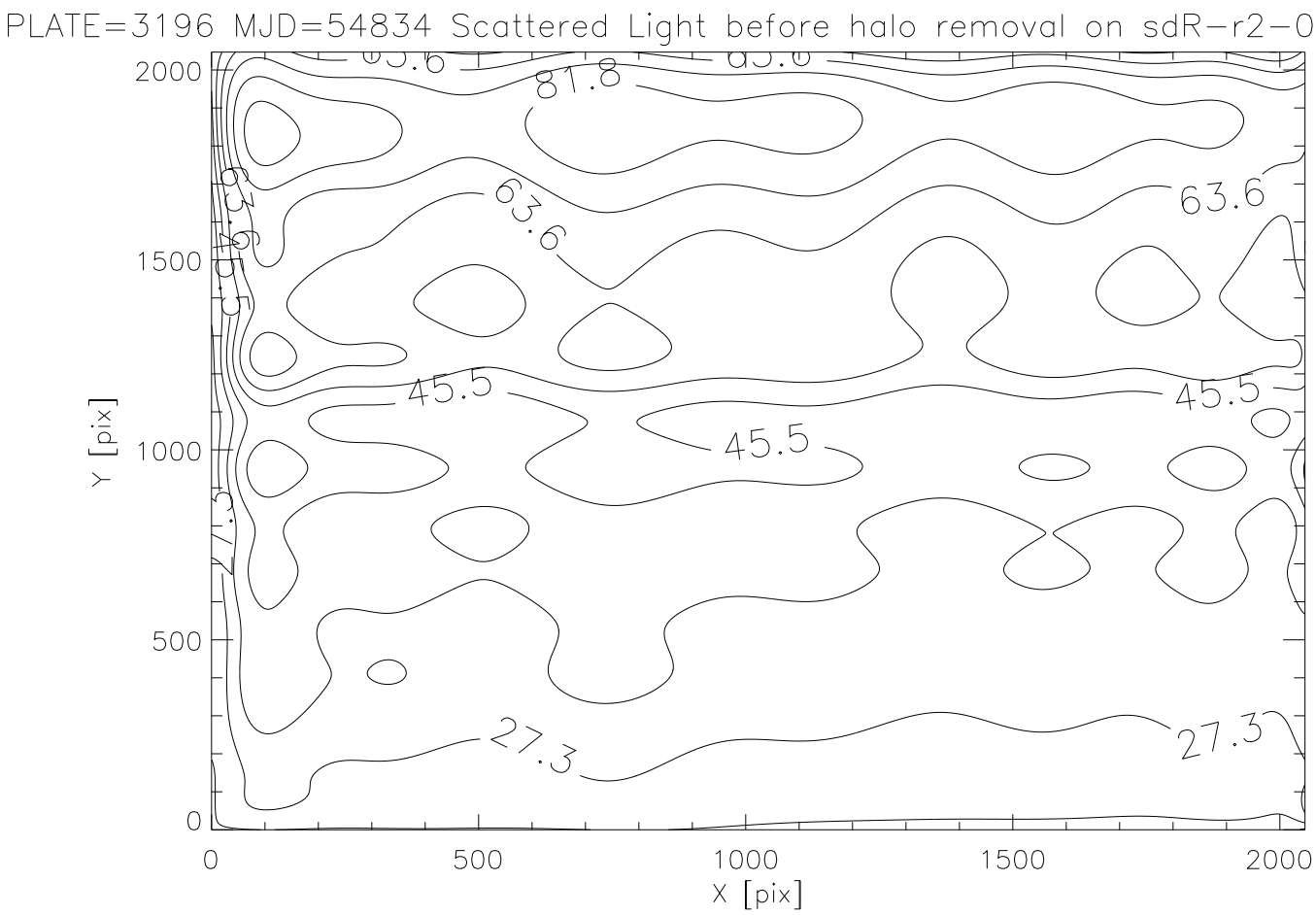

PLATE=3196 MJD=54834 sdR-r2-00057875.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

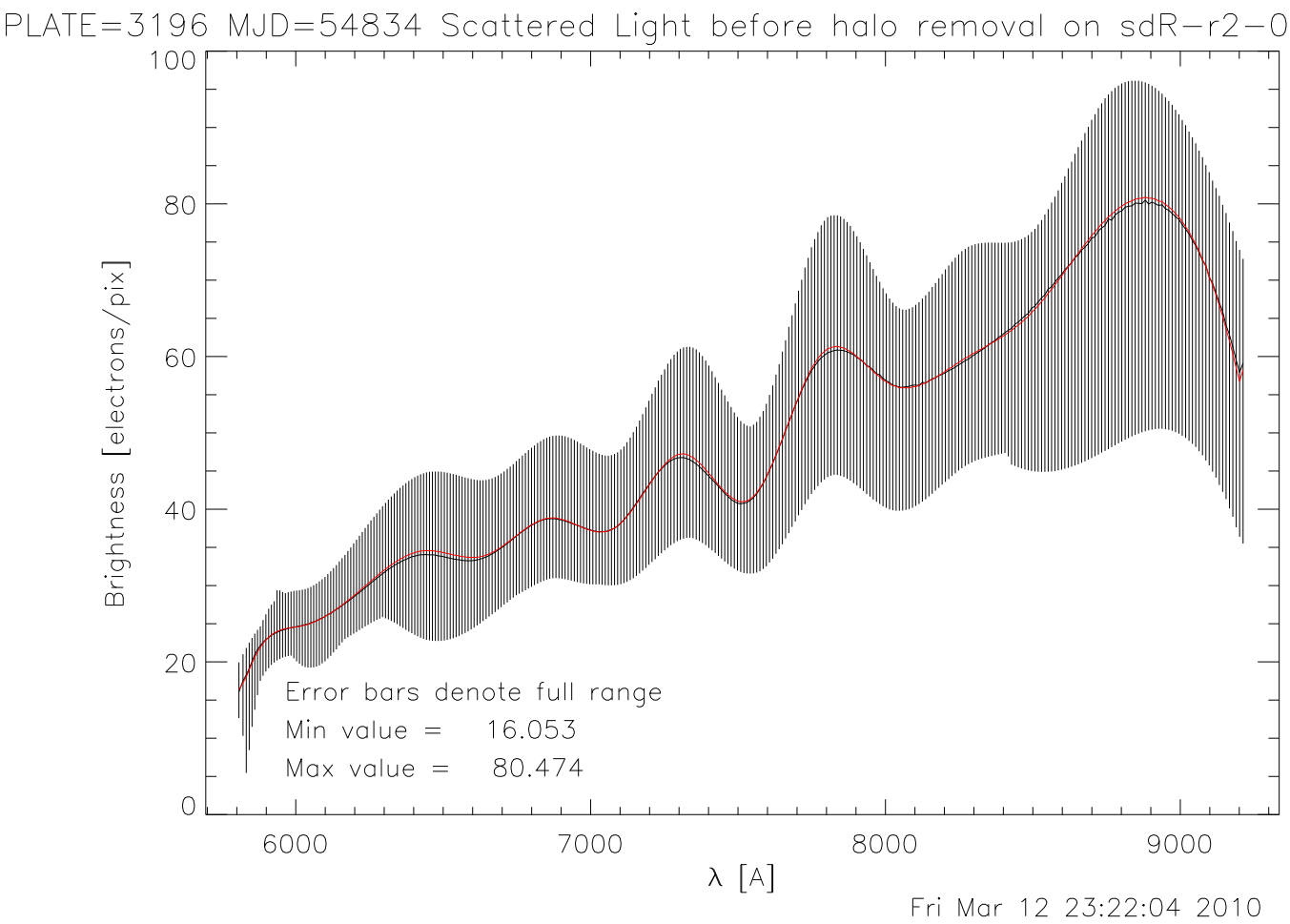

Number of sky fibers = 14
PLATE=3196 MJD=54834 sdR-r2-00057875.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

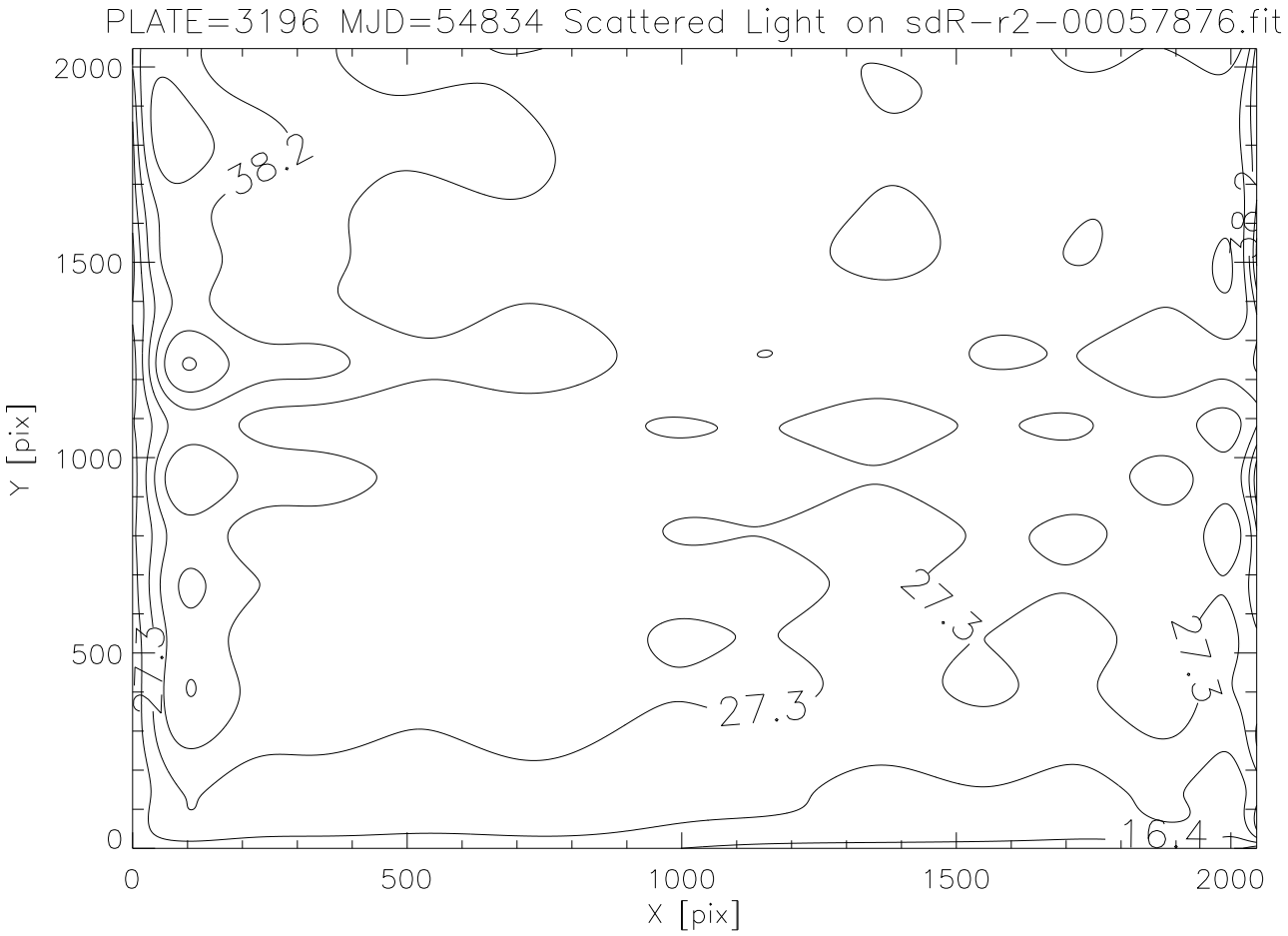

PLATE=3196 MJD=54834 sdR-r2-00057875.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.84 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

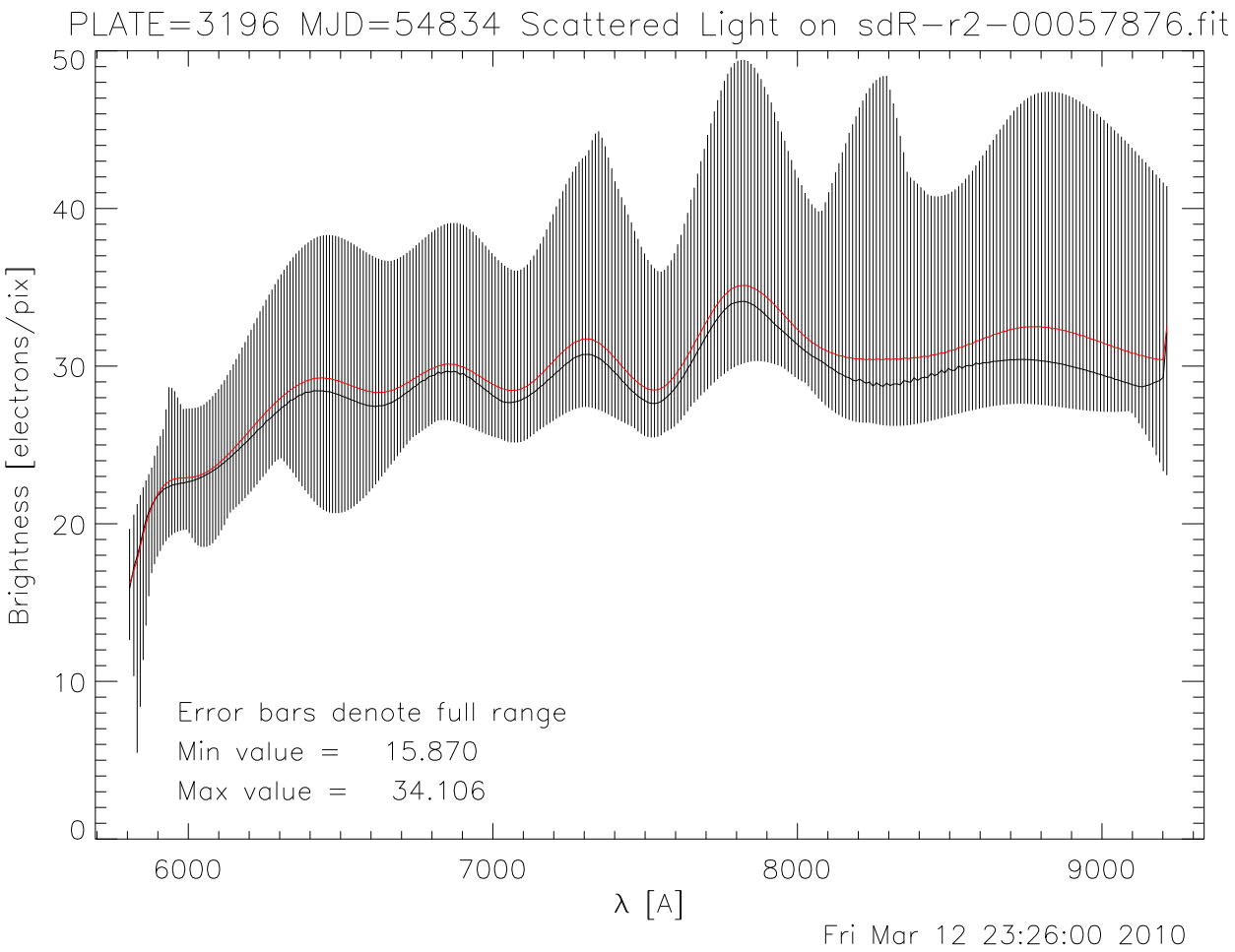

PLATE=3196 MJD=54834 sdR-r2-00057875.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.37 %
Fiber number
Focal Distance [mm]
Airmass

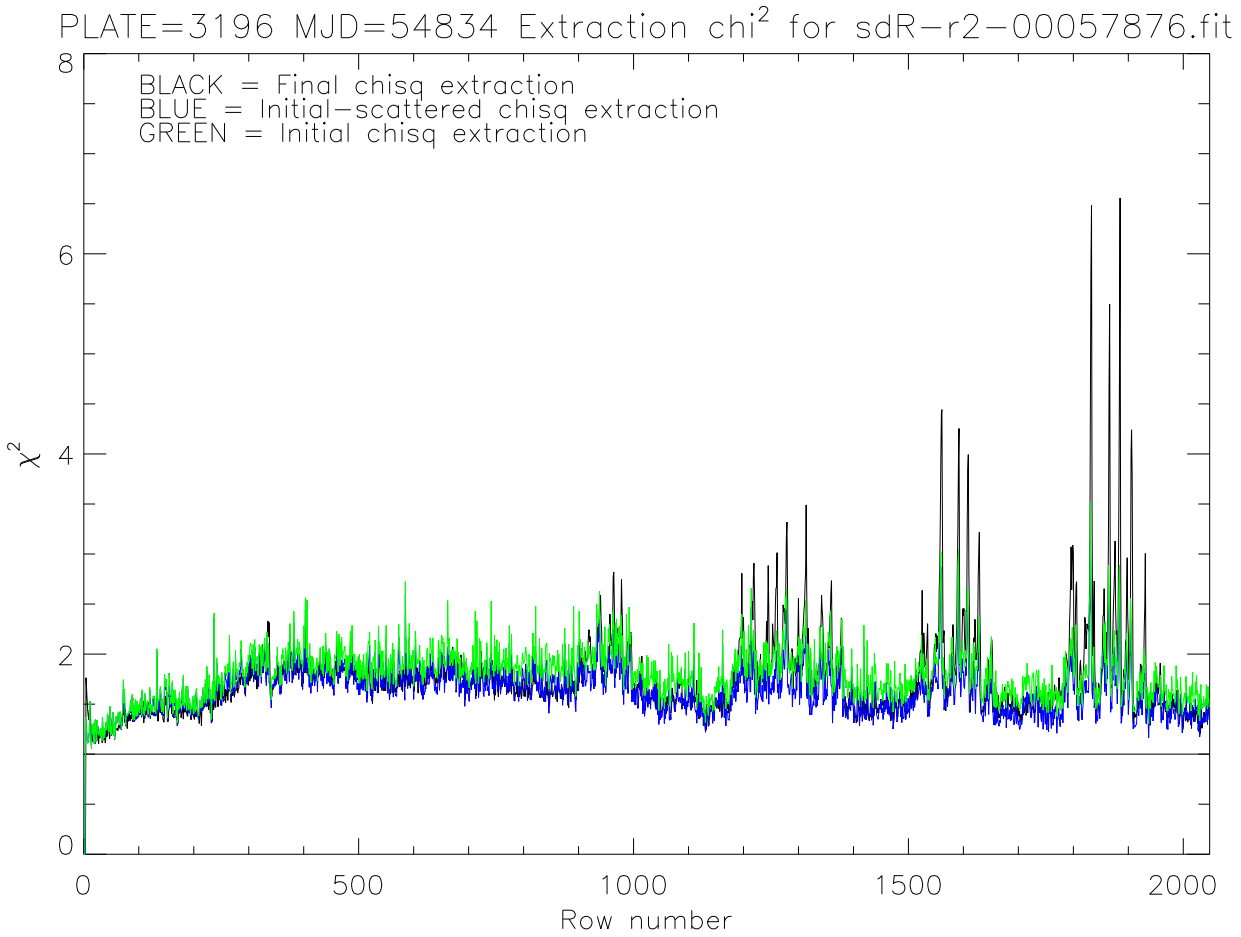

PLATE=3196 MJD=54834 Fiber−Flats for sdR−r2−00057873.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.627
Max value = 1.203
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Fri Mar 12 23:20:43 2010

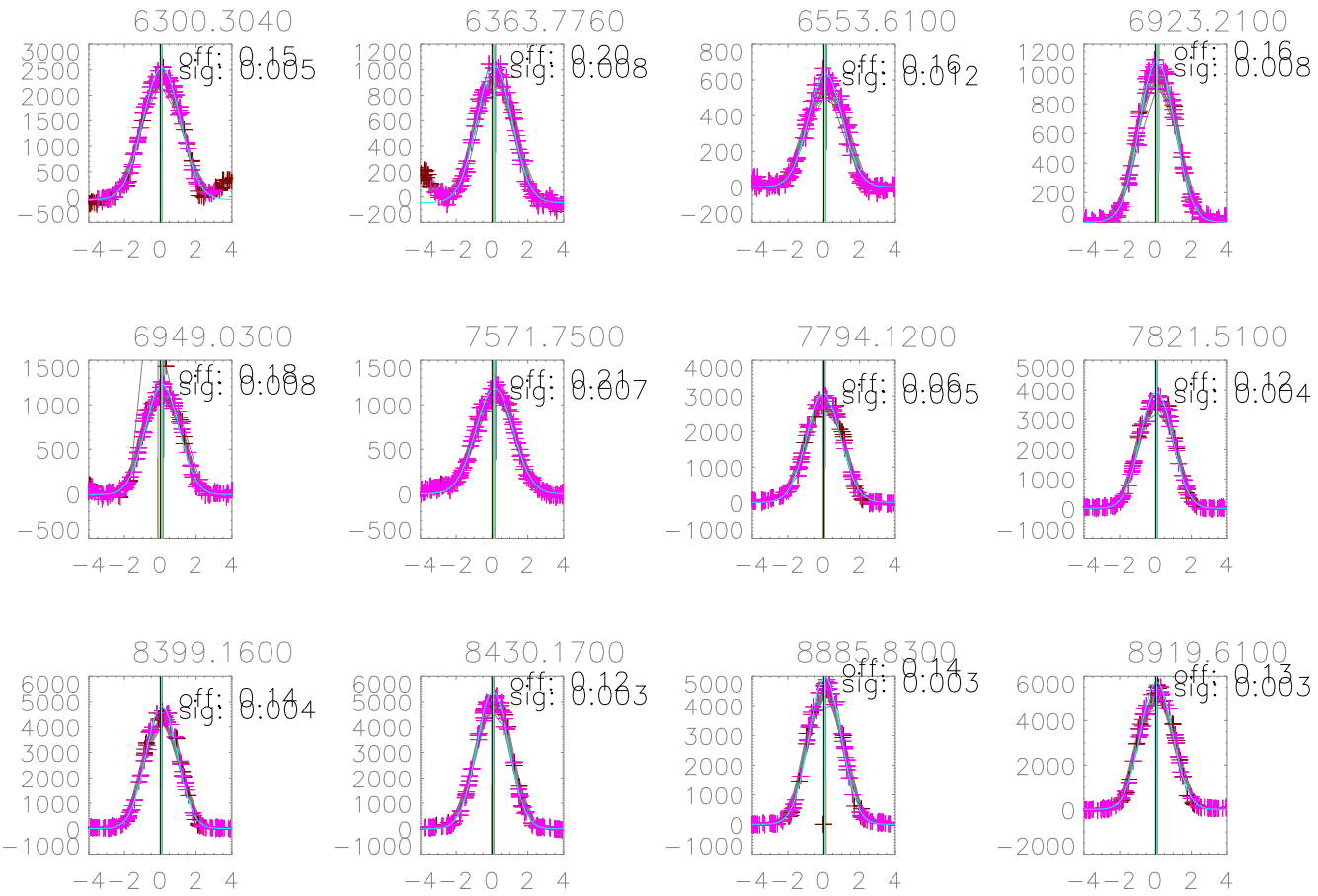

PLATE=3196 MJD=54834 Scattered Light before halo removal on sdR−r2−00057876.fi
81.8
63.6
63.6
45.5
45.5
45.5
27.3
27.3
Y [pix]
X [pix]
0
500
1000
1500
2000

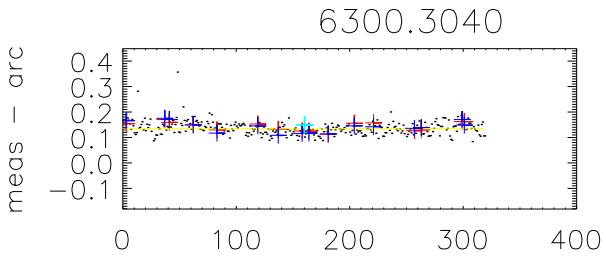

PLATE=3196 MJD=54834 Scattered Light before halo removal on sdR-r2-00057876.fi
Brightness [electrons/pix]
100
80
60
40
20
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 16.053
Max value = 80.474
Fri Mar 12 23:22:04 2010

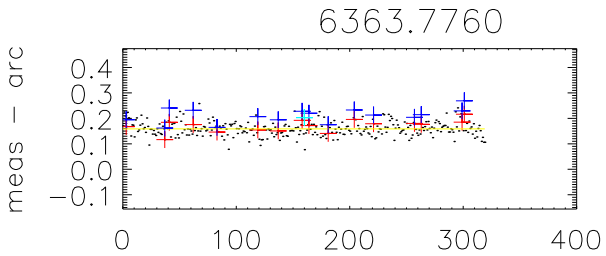

PLATE=3196 MJD=54834 Scattered Light on sdR-r2-00057876.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
38.2
27.3
16.4
0

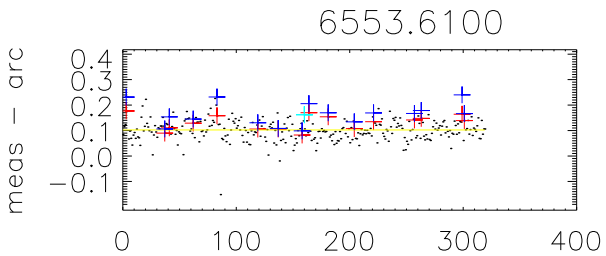

PLATE=3196 MJD=54834 Scattered Light on sdR-r2-00057876.fit
Brightness [electrons/pix]
50
40
30
20
10
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 15.870
Max value = 34.106
Fri Mar 12 23:26:00 2010

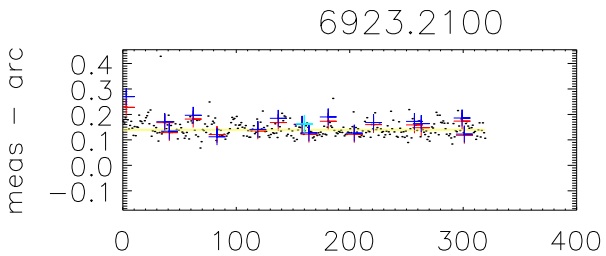

PLATE=3196 MJD=54834 Extraction chi^2 for sdR-r2-00057876.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

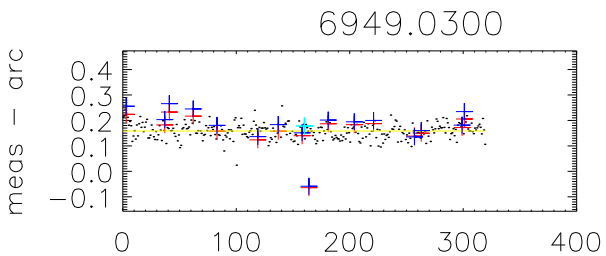

6300.3040
off: 0.15
sig: 0.005
6363.7760
off: 0.20
sig: 0.008
6553.6100
off: 0.16
sig: 0.012
6923.2100
off: 0.16
sig: 0.008
6949.0300
off: 0.18
sig: 0.008
7571.7500
off: 0.21
sig: 0.007
7794.1200
off: 0.06
sig: 0.005
7821.5100
off: 0.12
sig: 0.004
8399.1600
off: 0.14
sig: 0.004
8430.1700
off: 0.12
sig: 0.003
8885.8300
off: 0.14
sig: 0.003
8919.6100
off: 0.13
sig: 0.003

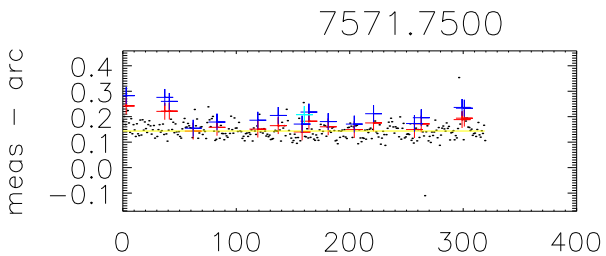

6300.3040
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

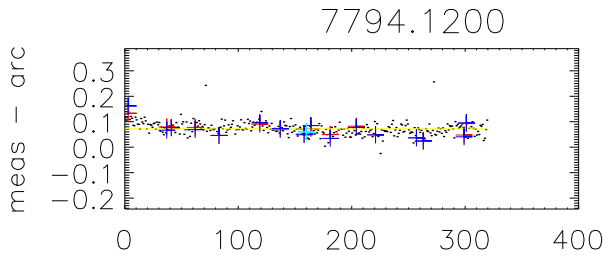

6363.7760
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

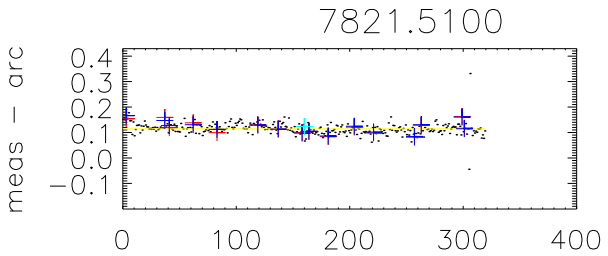

6553.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

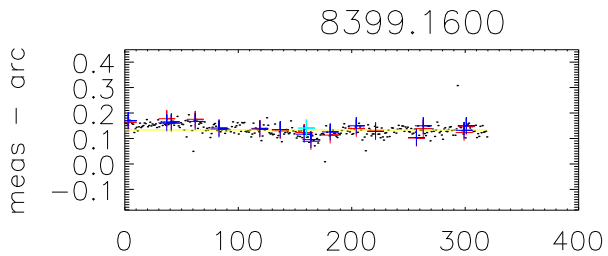

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

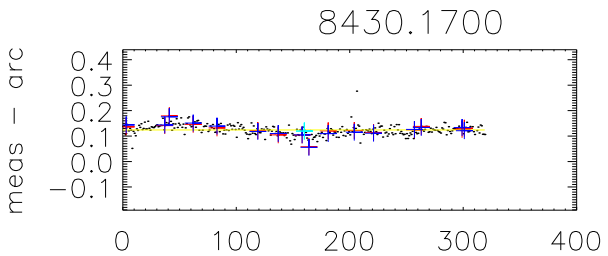

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

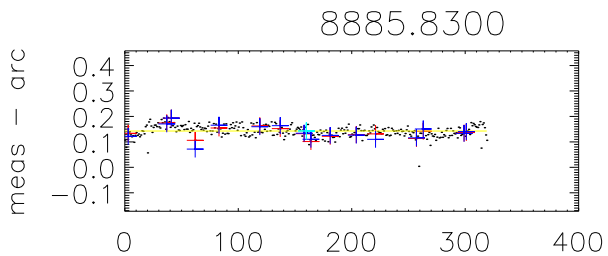

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

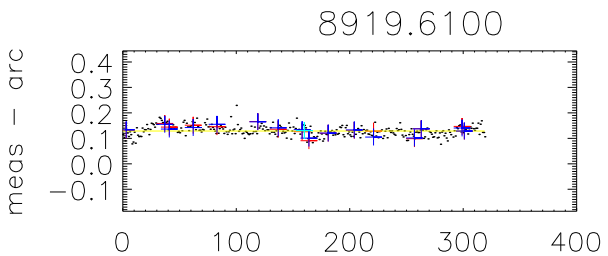

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

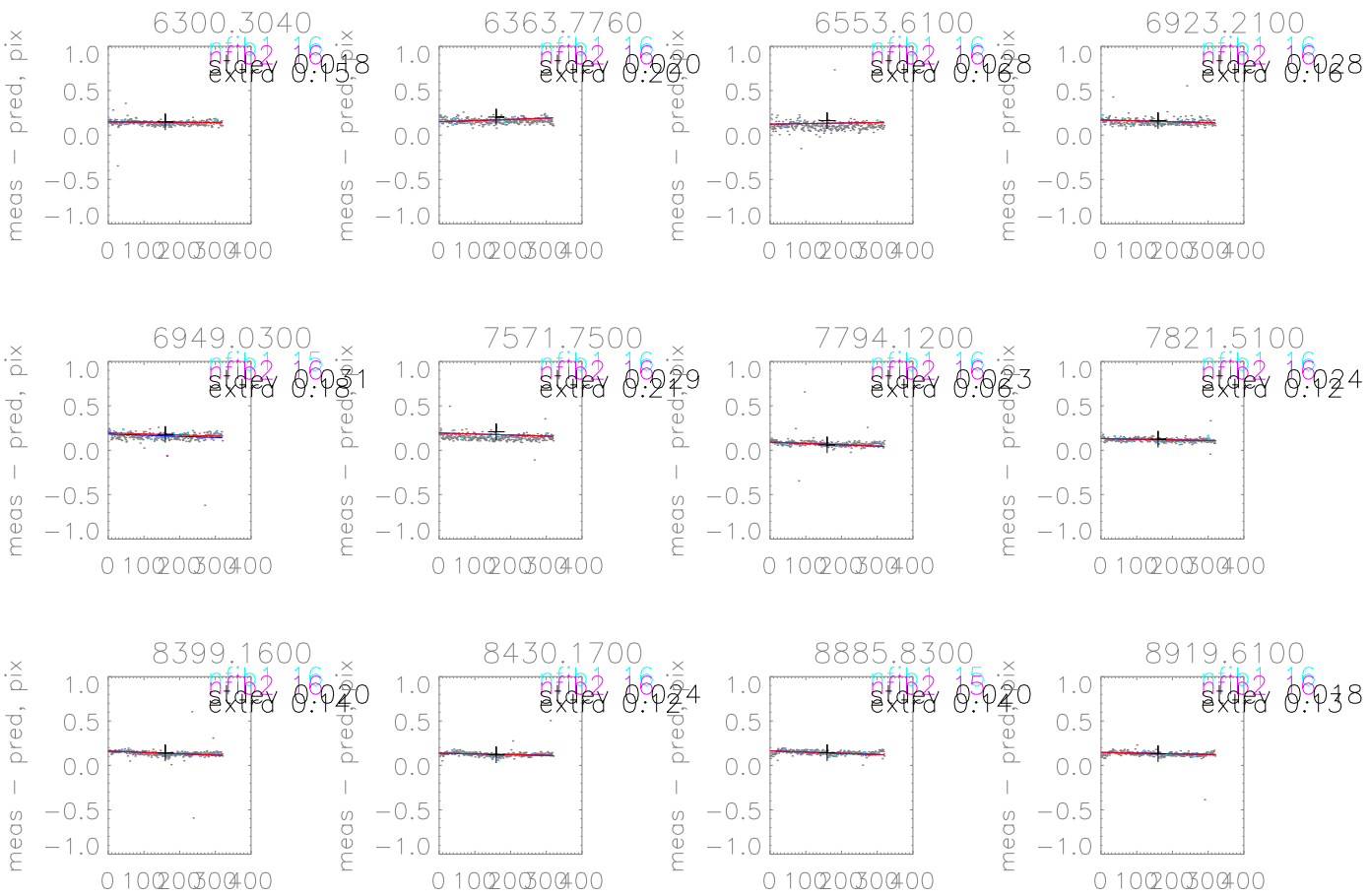

7821.5100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

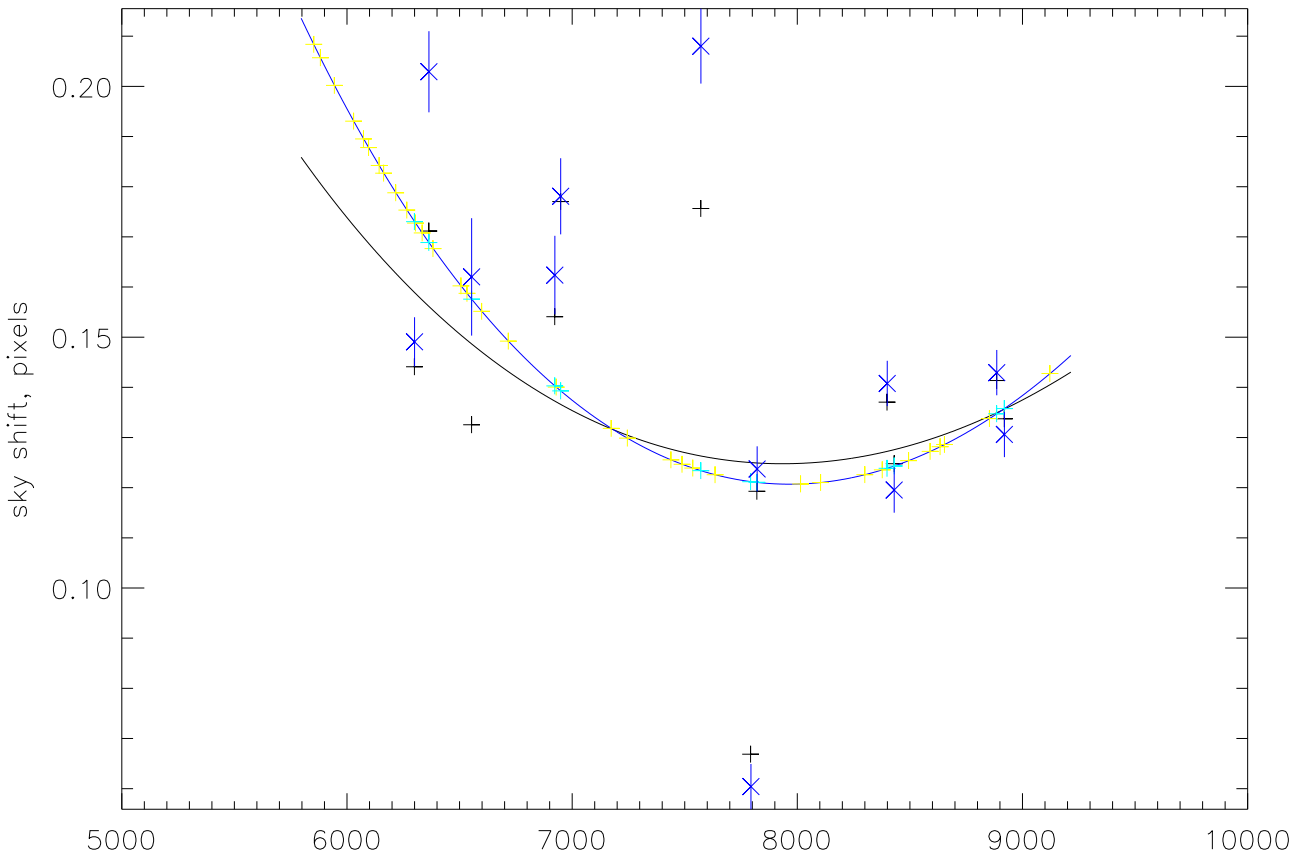

8399.1600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

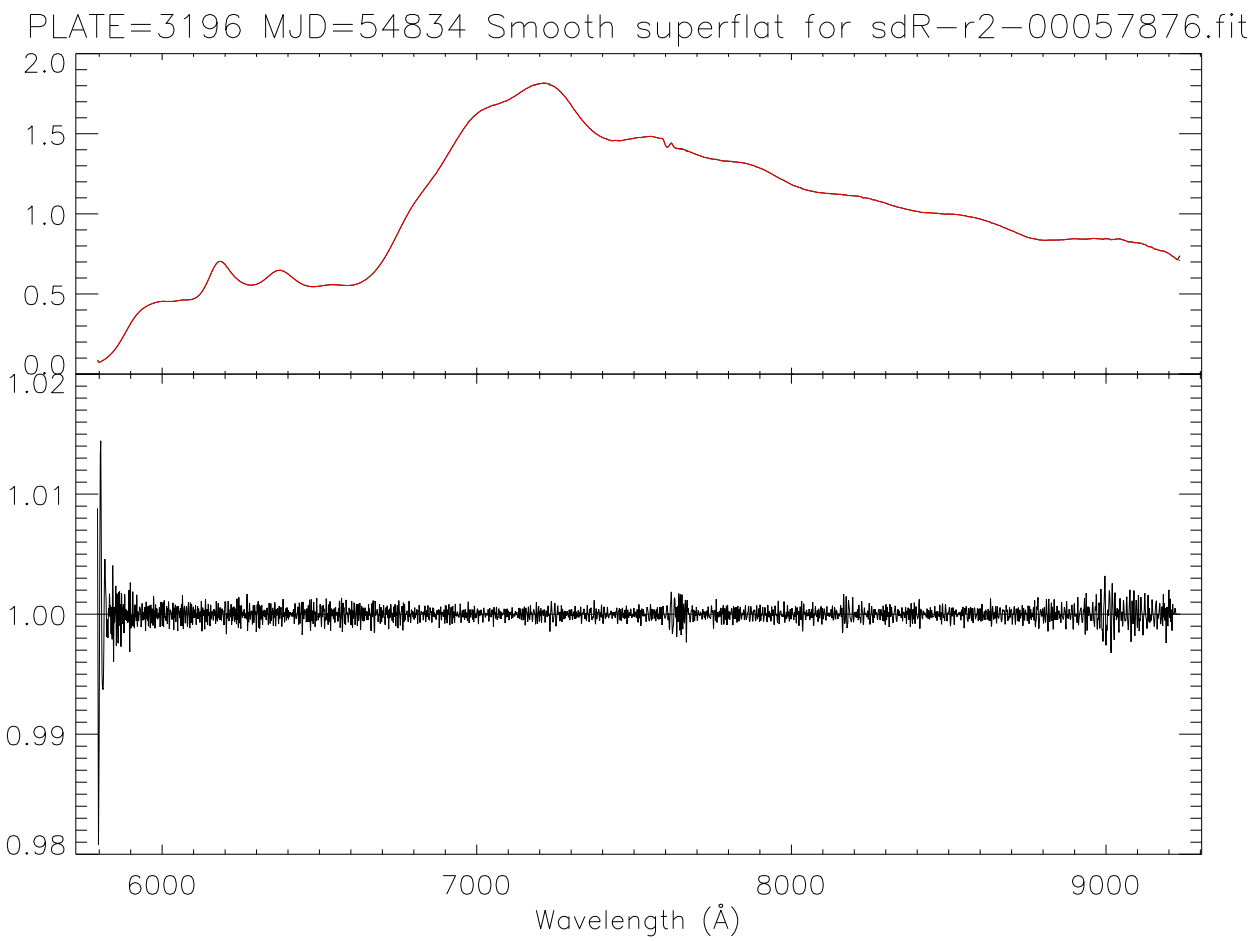

8885.8300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

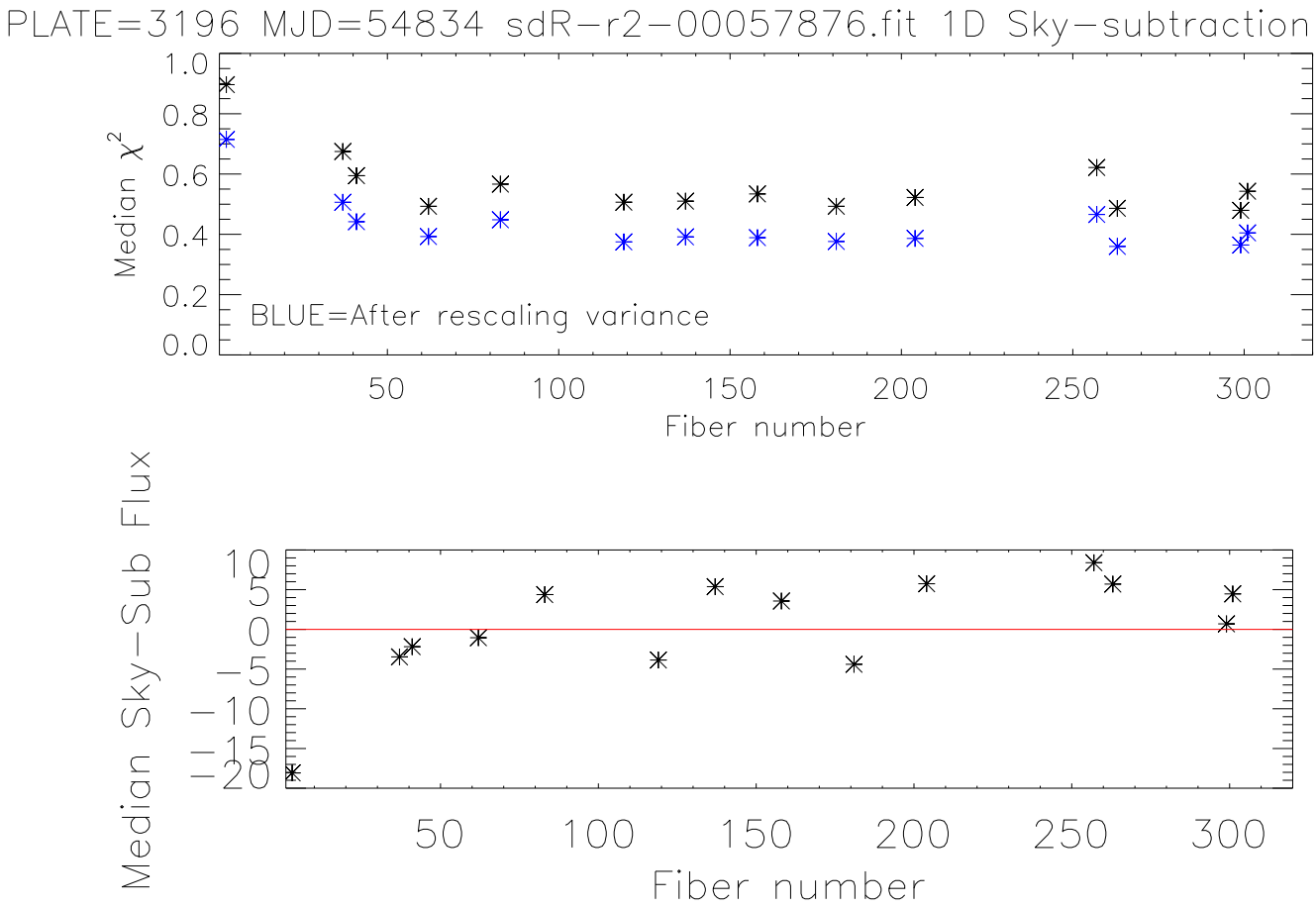

8919.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

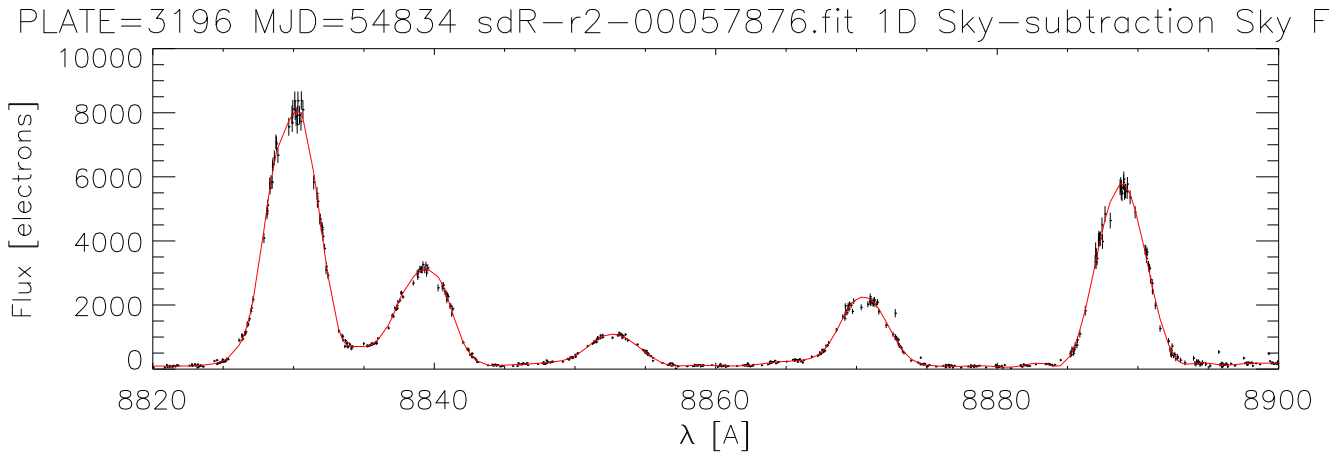

6300.3040
stdev 0.018
extra 0.15
6363.7760
stdev 0.020
extra 0.26
6553.6100
stdev 0.028
extra 0.16
6923.2100
stdev 0.028
extra 0.16
6949.0300
stdev 0.031
extra 0.18
7571.7500
stdev 0.029
extra 0.21
7794.1200
stdev 0.023
extra 0.06
7821.5100
stdev 0.024
extra 0.12
8399.1600
stdev 0.020
extra 0.14
8430.1700
stdev 0.024
extra 0.12
8885.8300
stdev 0.020
extra 0.14
8919.6100
stdev 0.018
extra 0.13
meas − pred, pix

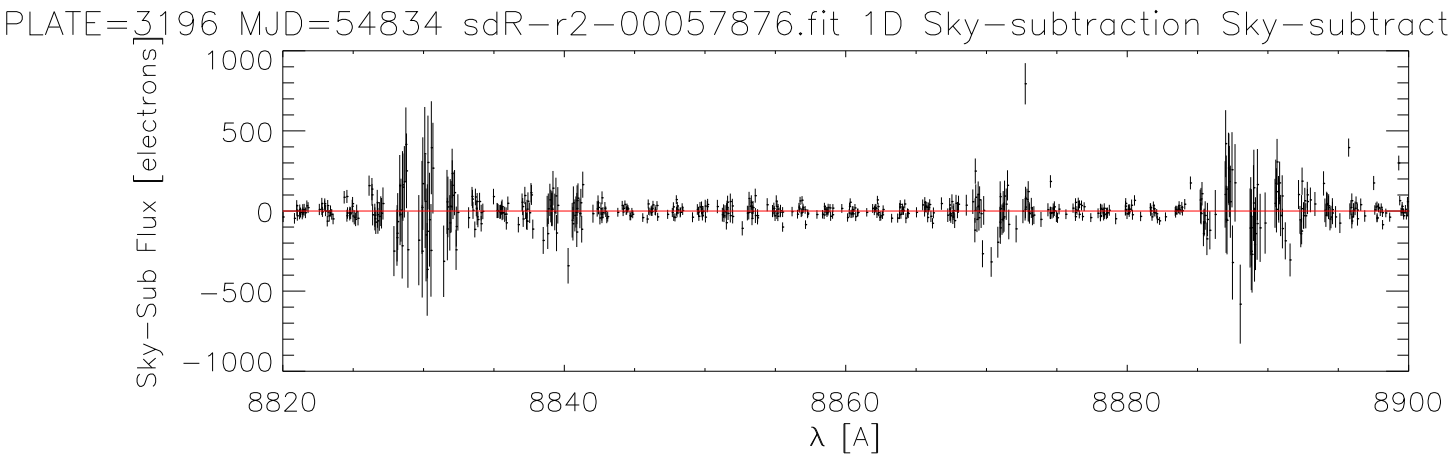

0.20
0.15
0.10
sky shift, pixels
5000
6000
7000
8000
9000
10000

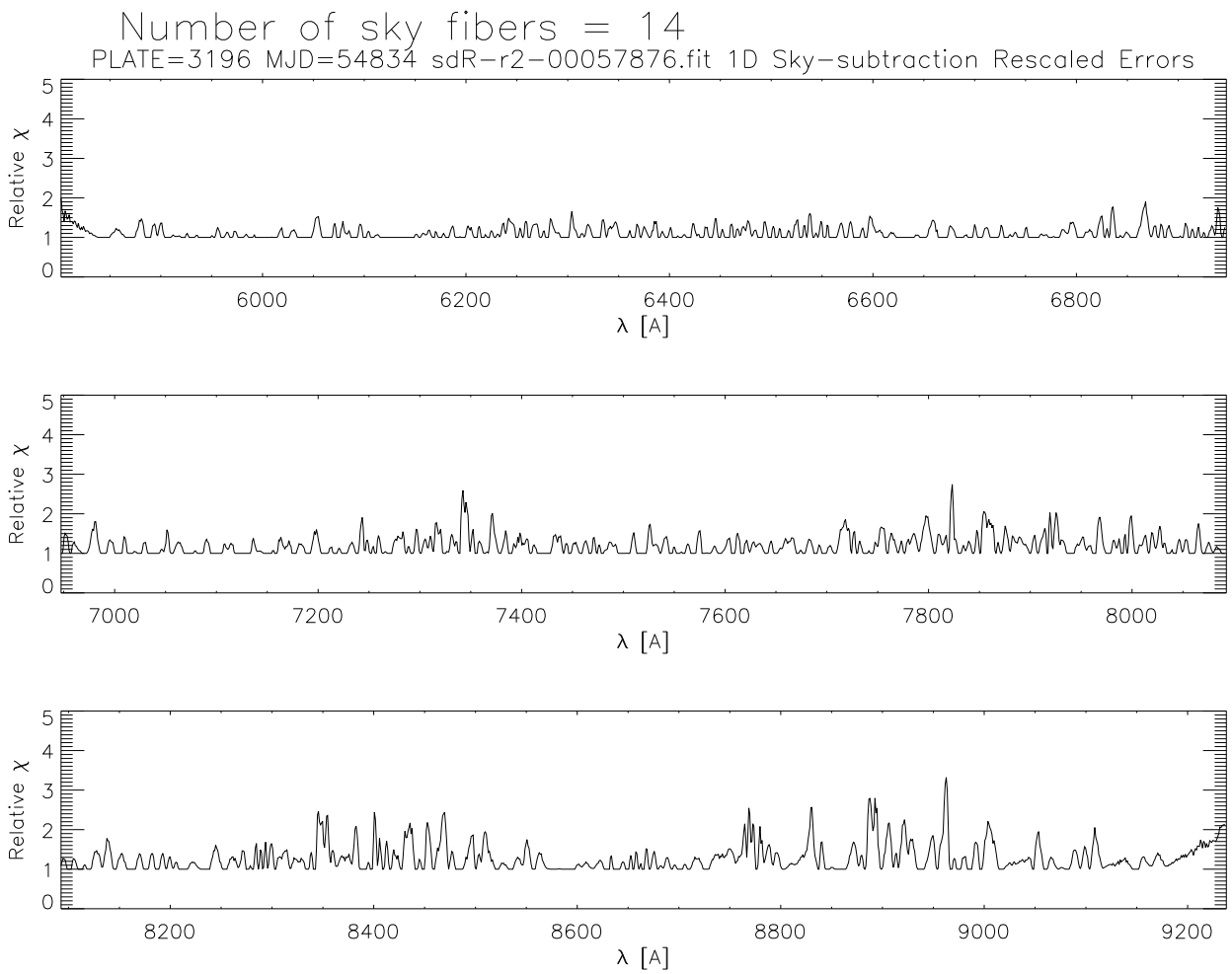
es= 0.0000

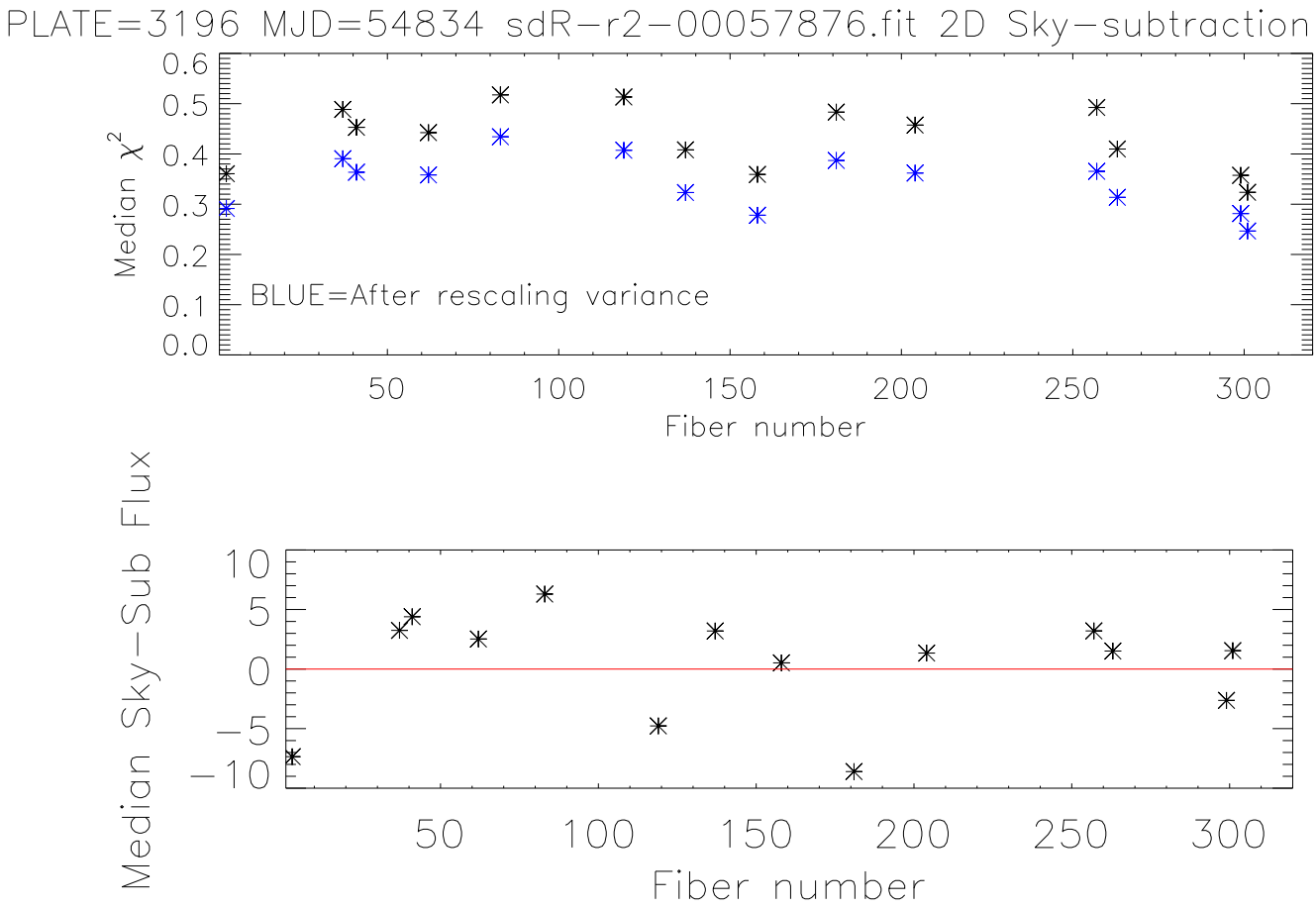

PLATE=3196 MJD=54834 Smooth superflat for sdR-r2-00057876.fit
2.0
1.5
1.0
0.5
0.0
1.02
1.01
1.00
0.99
0.98
6000
7000
8000
9000
Wavelength (Å)

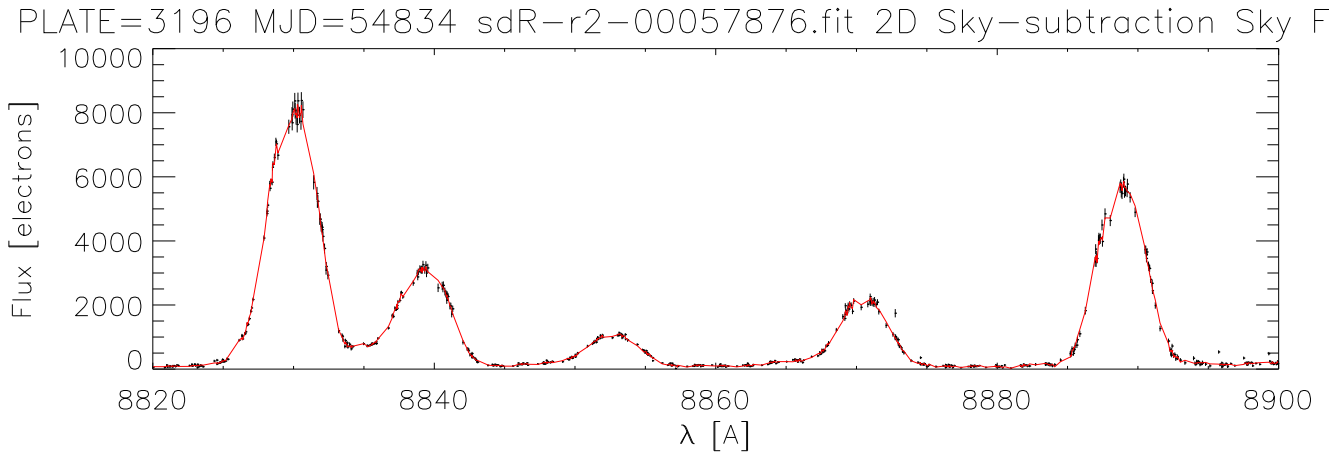

PLATE=3196 MJD=54834 sdR-r2-00057876.fit 1D Sky-subtraction Sky Fibers
Median χ^2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
-20
50
100
150
200
250
300
Fiber number

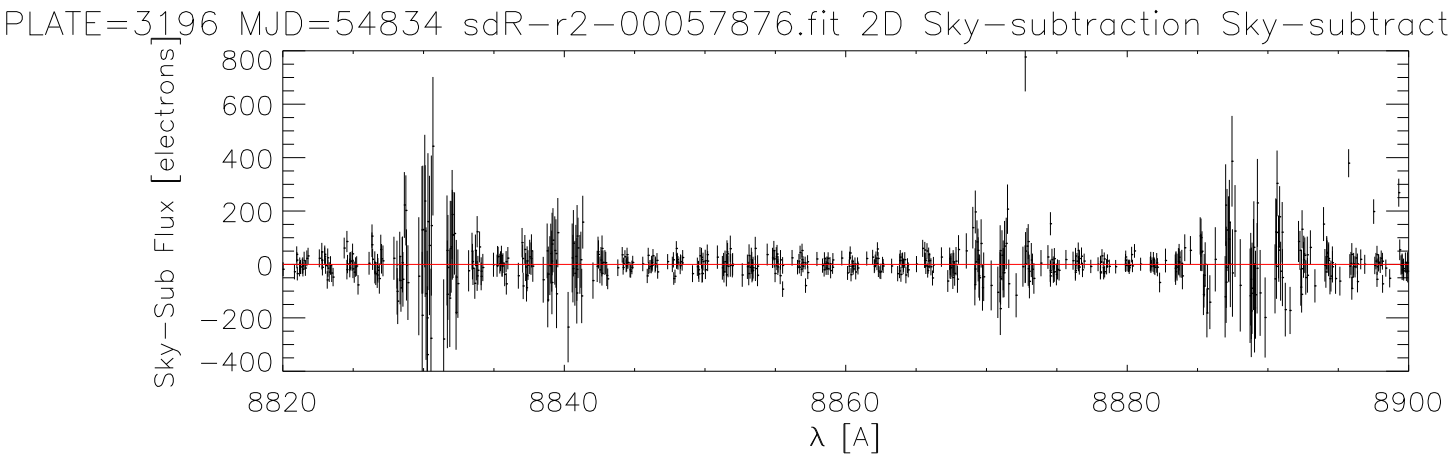

PLATE=3196 MJD=54834 sdR-r2-00057876.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

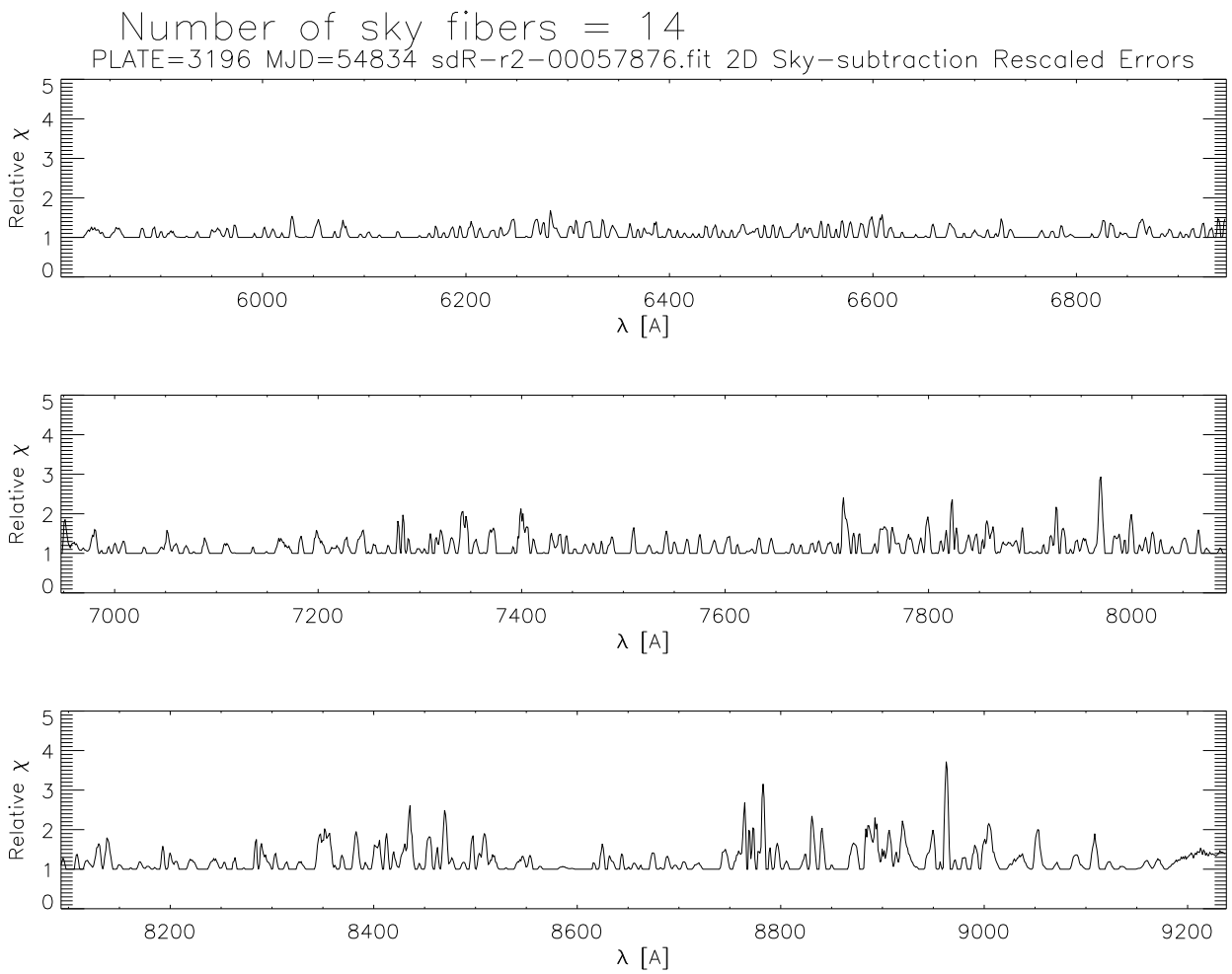

PLATE=3196 MJD=54834 sdR-r2-00057876.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
500
0
-500
-1000
8820
8840
8860
8880
8900
λ [A]

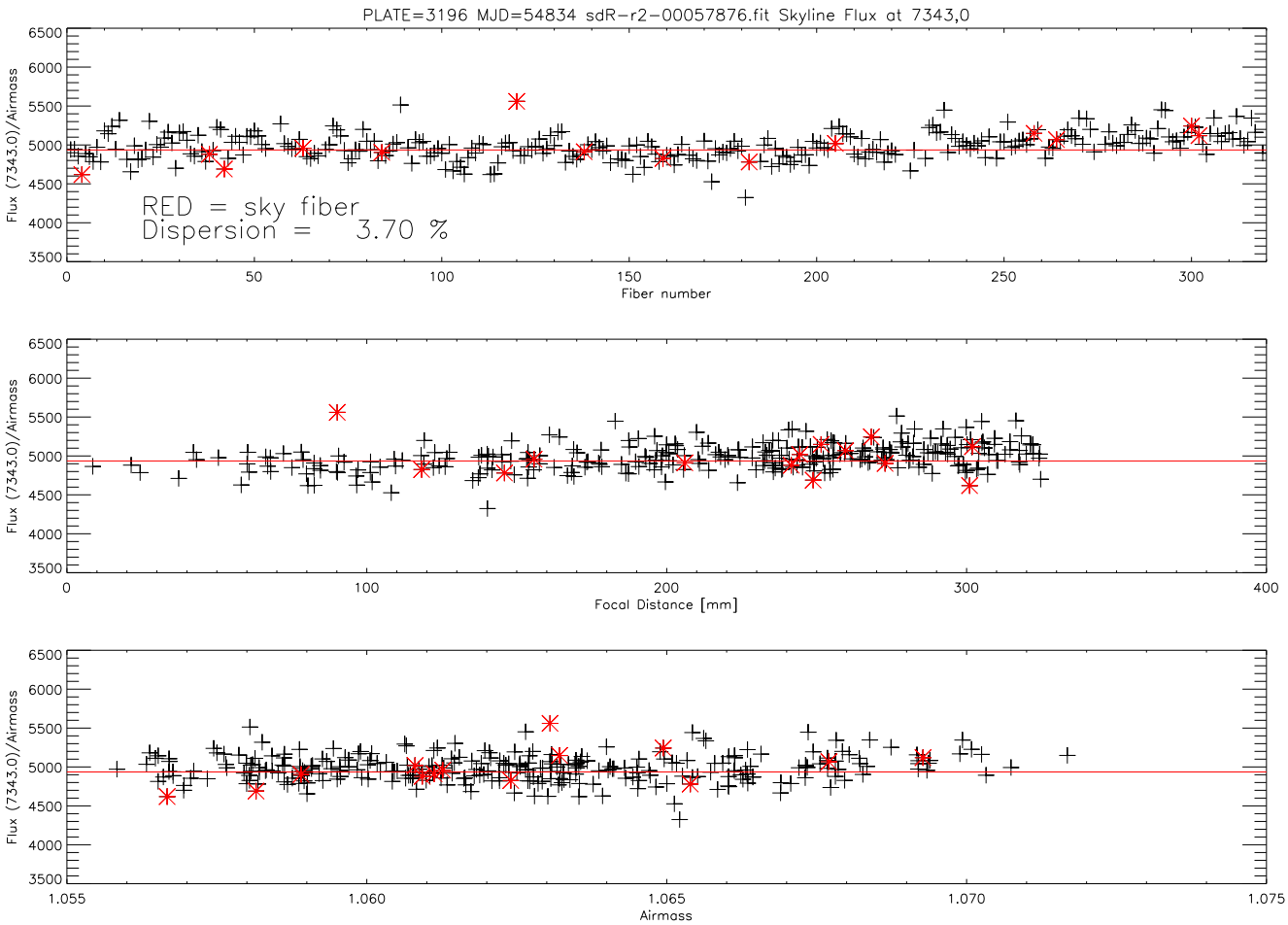

Number of sky fibers = 14
PLATE=3196 MJD=54834 sdR-r2-00057876.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

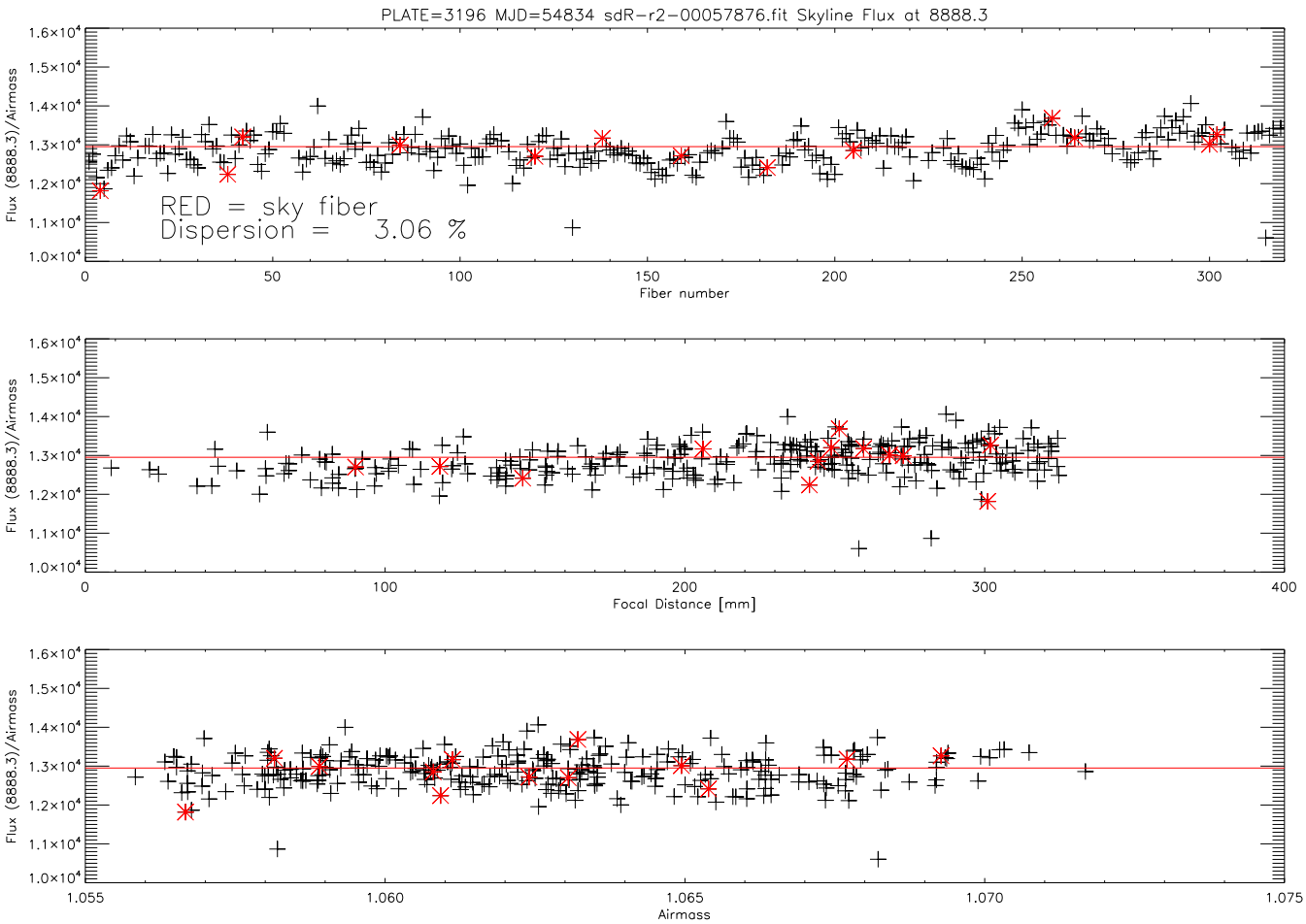

PLATE=3196 MJD=54834 sdR-r2-00057876.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

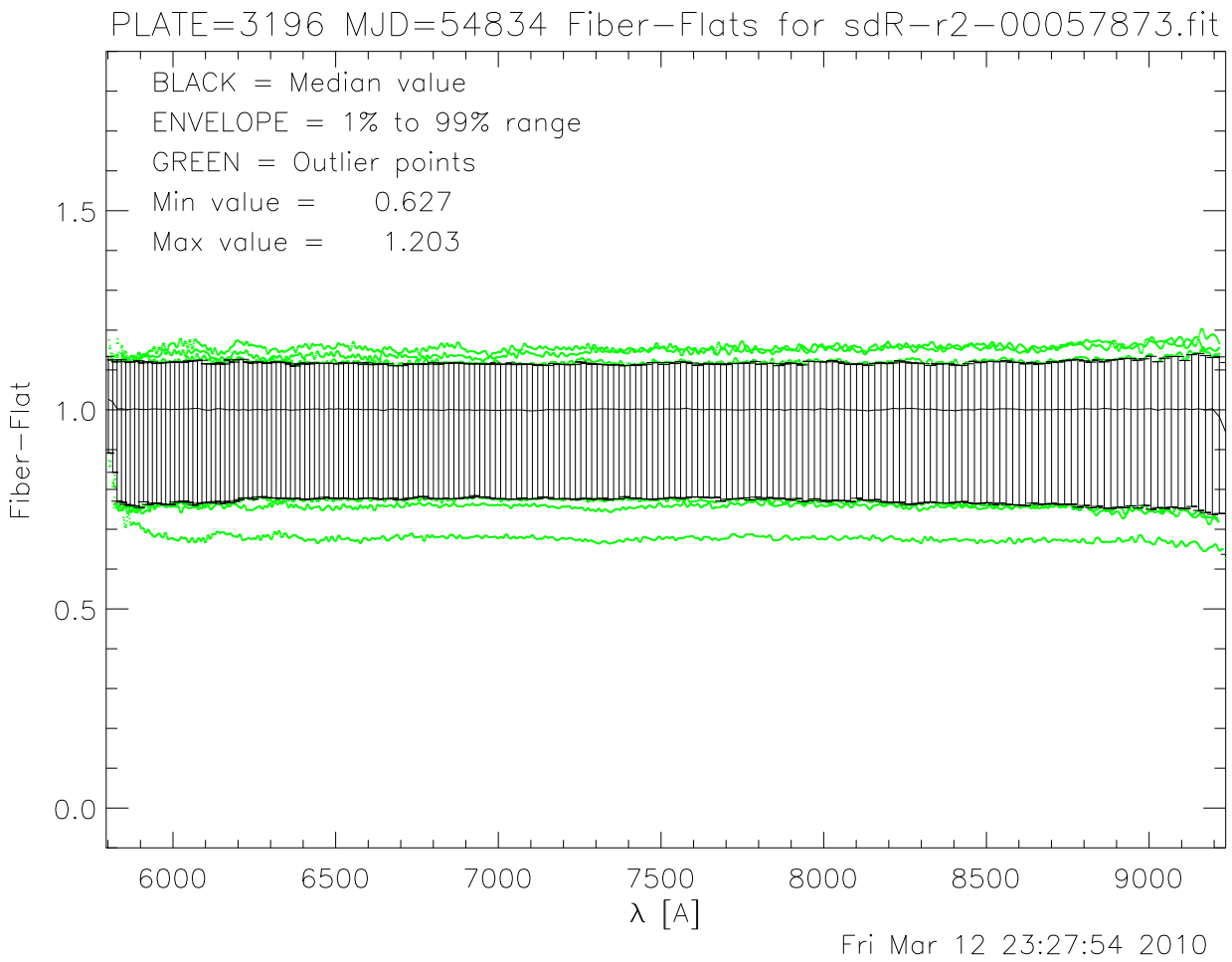

PLATE=3196 MJD=54834 sdR-r2-00057876.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

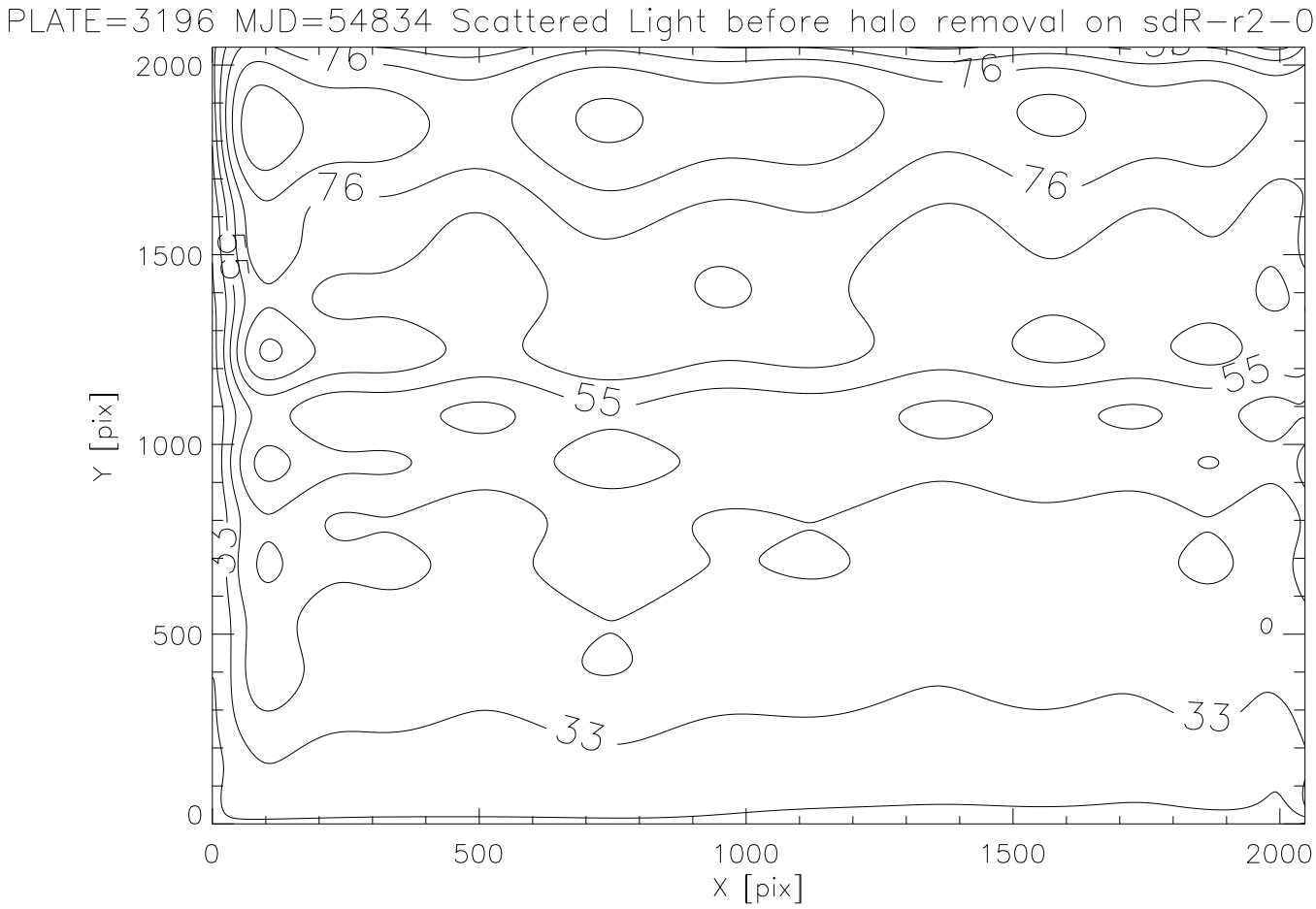

PLATE=3196 MJD=54834 sdR-r2-00057876.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

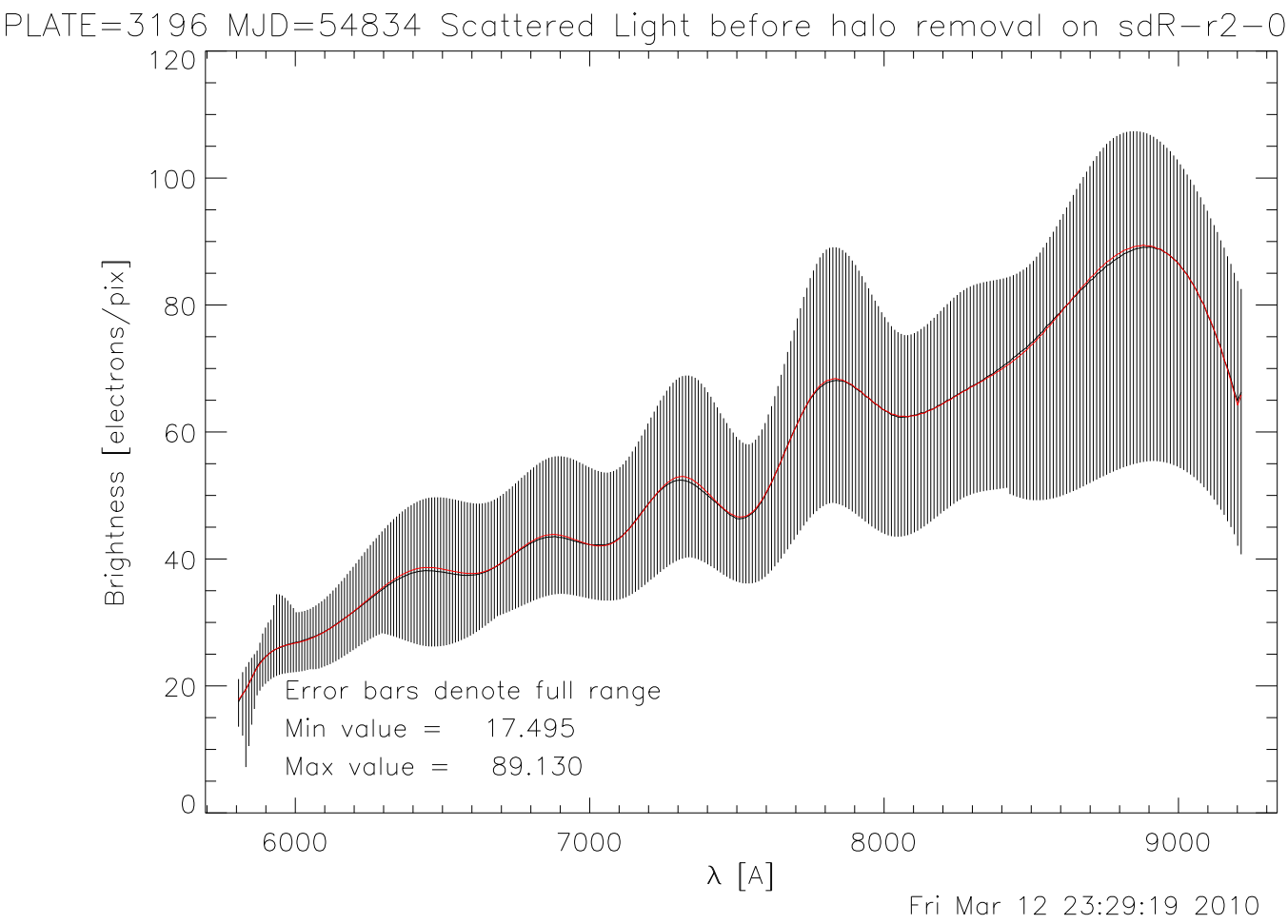

Number of sky fibers = 14
PLATE=3196 MJD=54834 sdR-r2-00057876.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

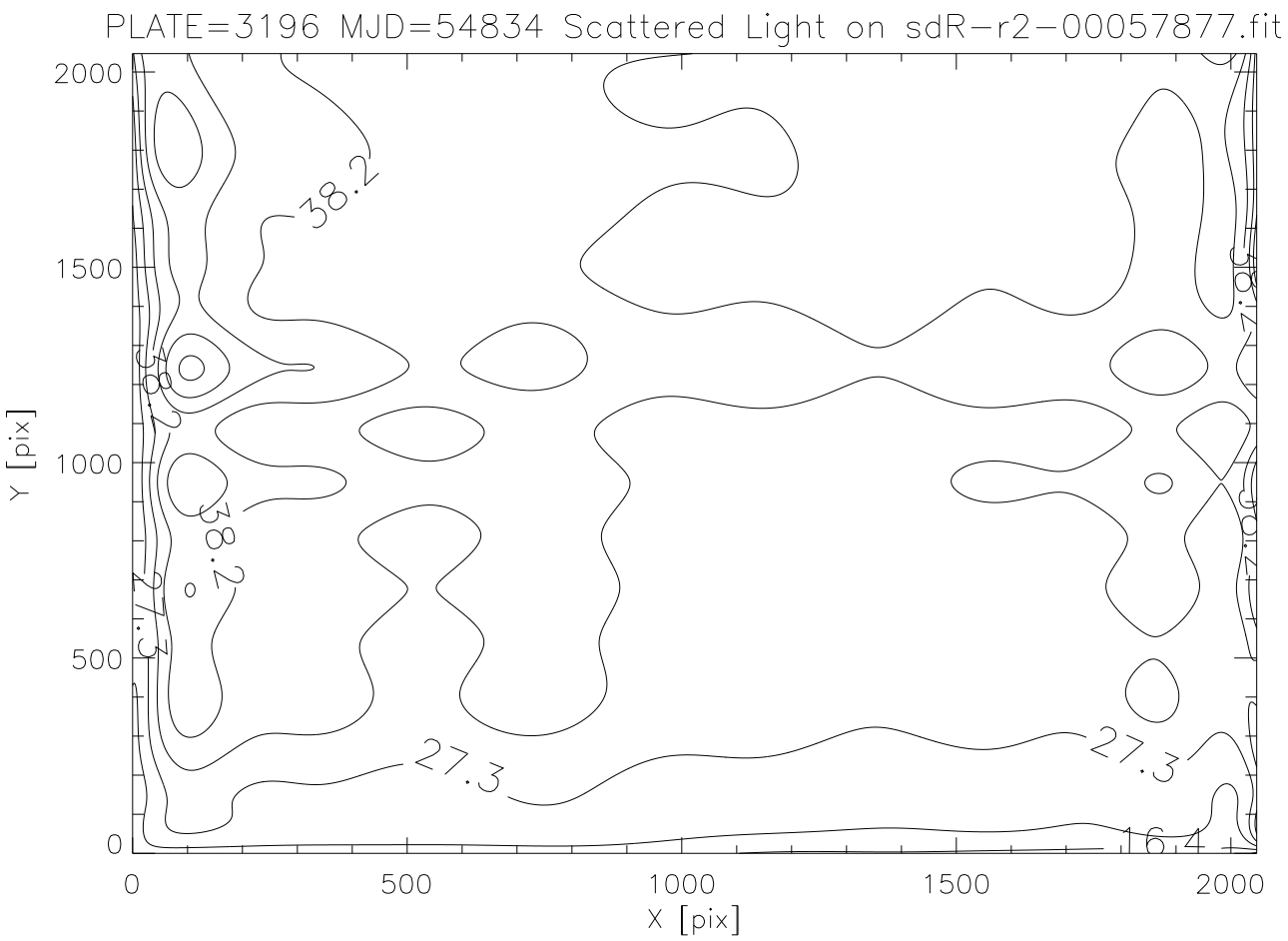

PLATE=3196 MJD=54834 sdR-r2-00057876.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.70 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

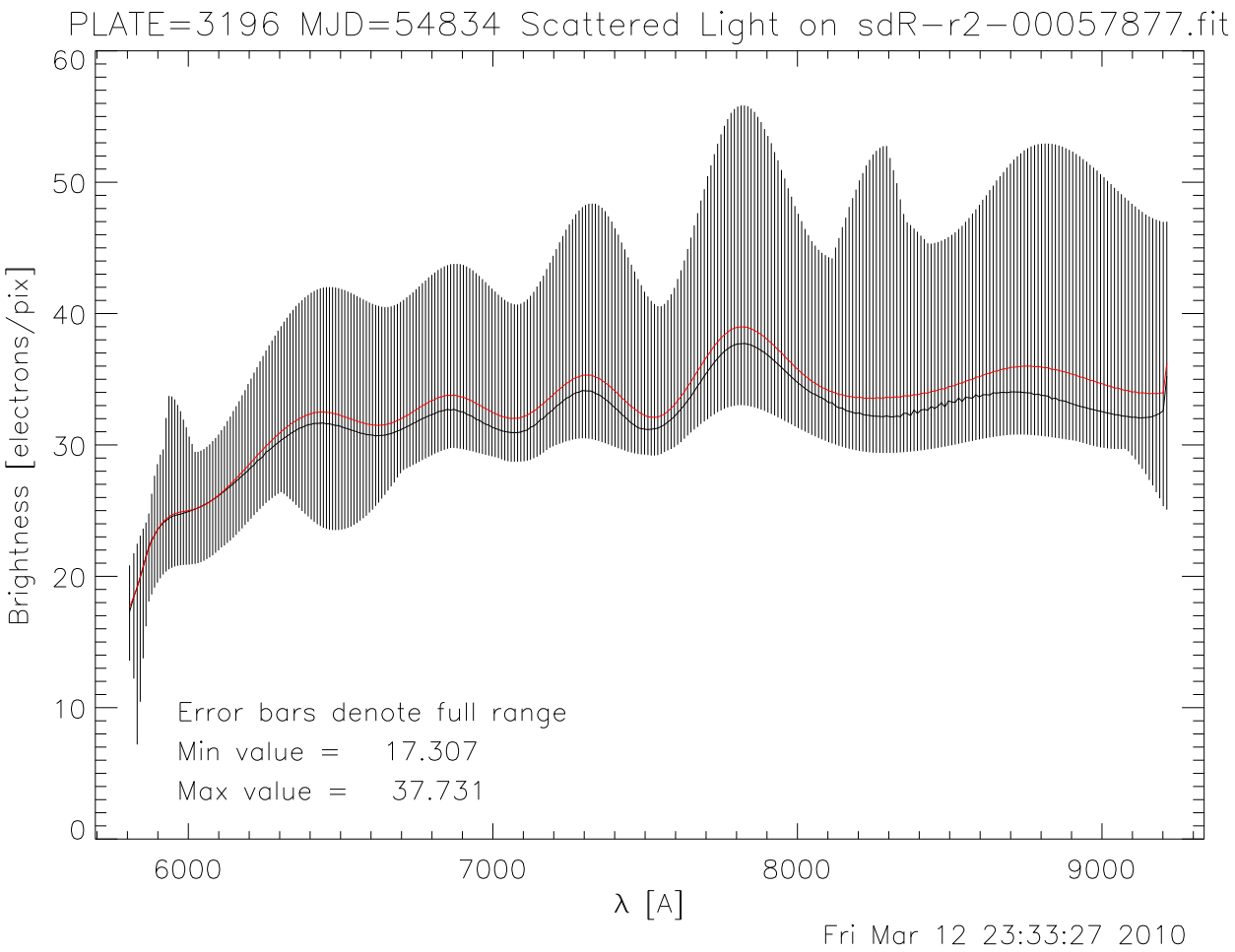

PLATE=3196 MJD=54834 sdR-r2-00057876.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.06 %
Fiber number
Focal Distance [mm]
Airmass

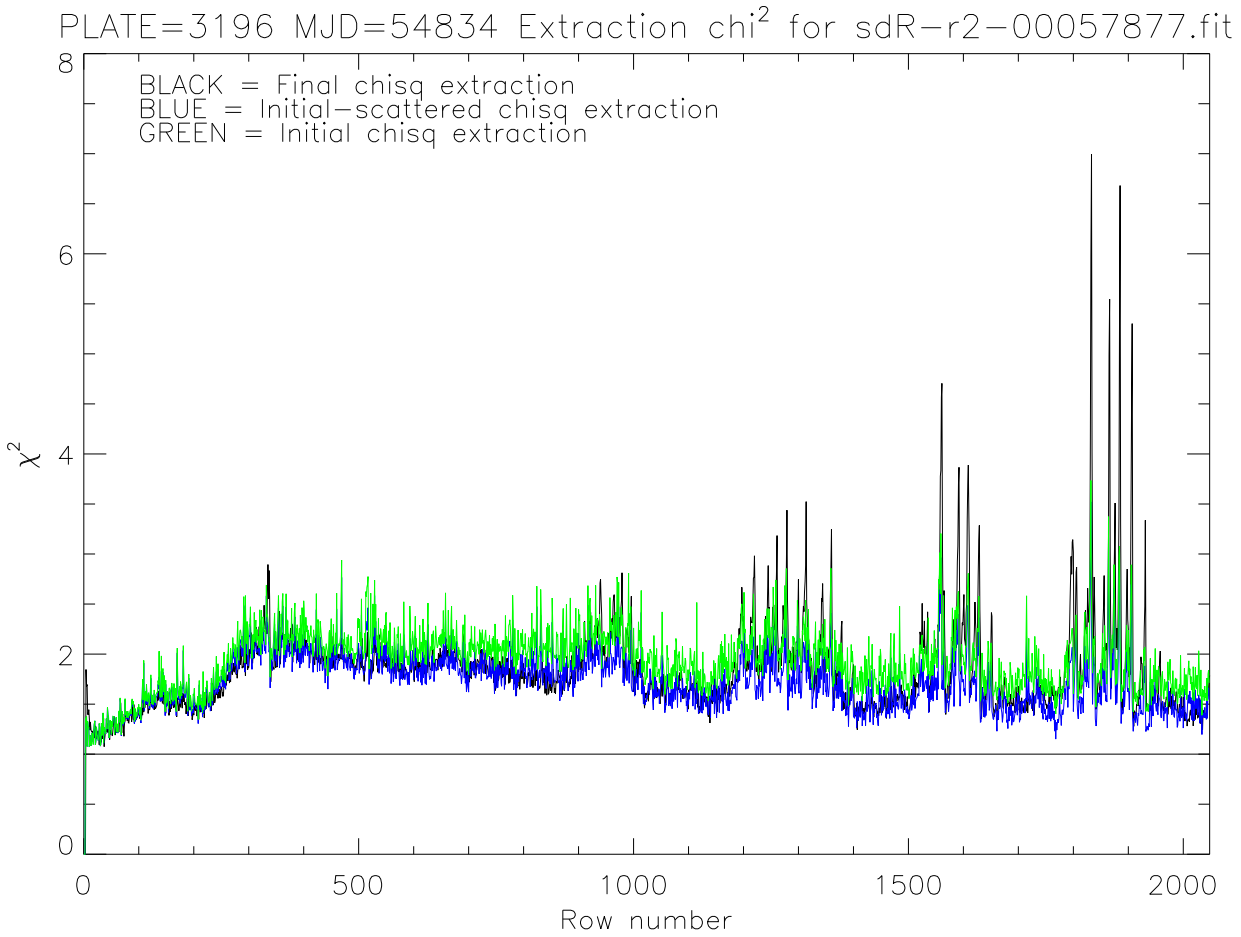

PLATE=3196 MJD=54834 Fiber−Flats for sdR−r2−00057873.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.627
Max value = 1.203
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Fri Mar 12 23:27:54 2010

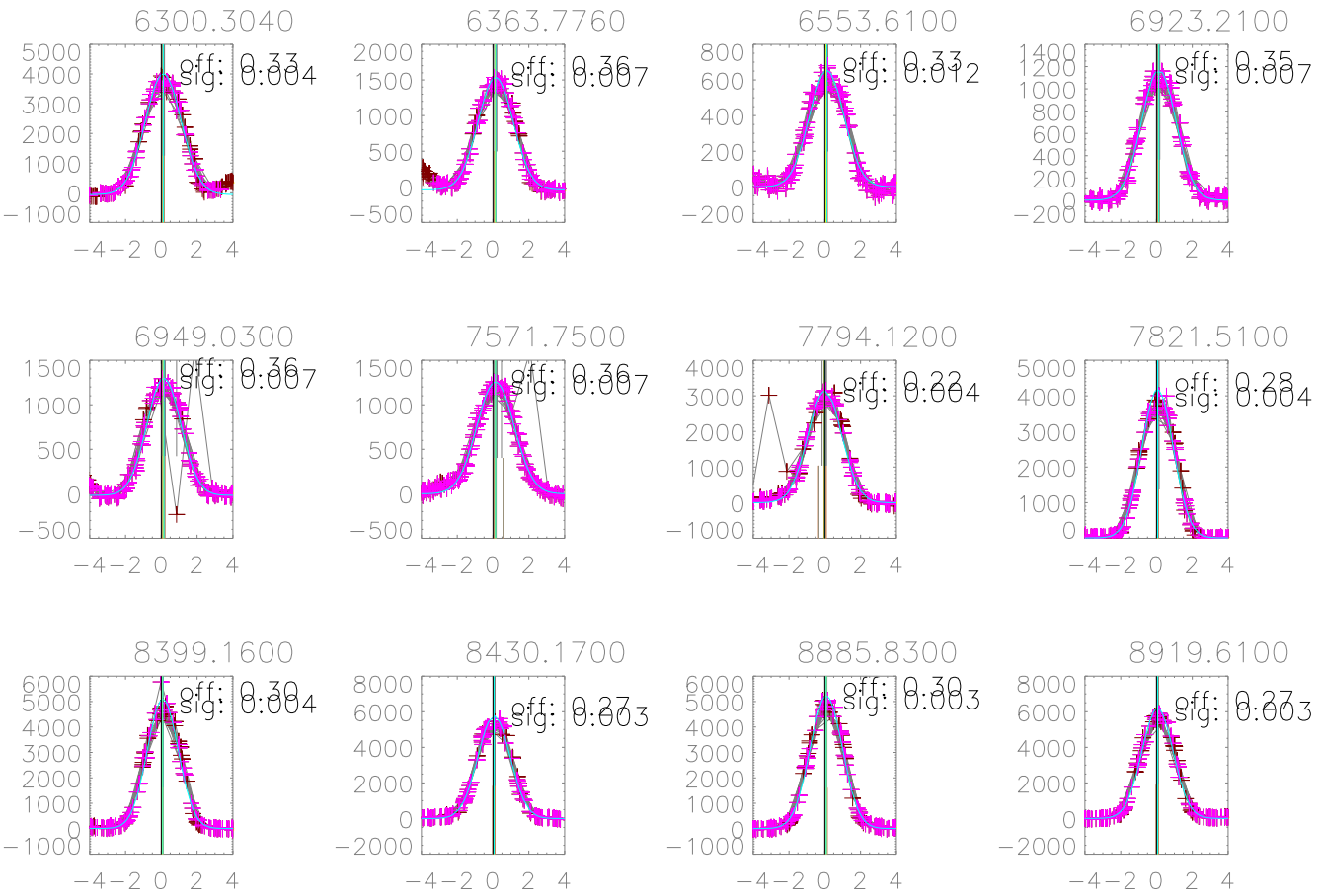

PLATE=3196 MJD=54834 Scattered Light before halo removal on sdR-r2-00057877.fi
76
76
76
76
55
55
55
33
33
0
Y [pix]
X [pix]
0
500
1000
1500
2000

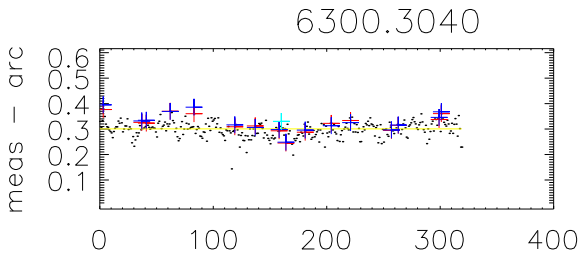

PLATE=3196 MJD=54834 Scattered Light before halo removal on sdR-r2-00057877.fi
Brightness [electrons/pix]
120
100
80
60
40
20
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 17.495
Max value = 89.130
Fri Mar 12 23:29:19 2010

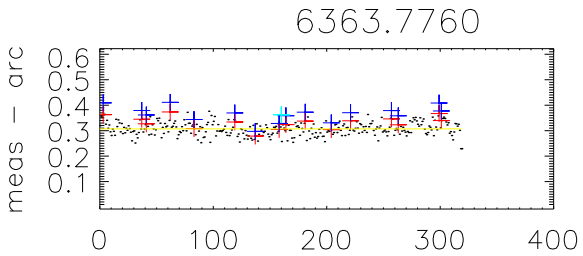

PLATE=3196 MJD=54834 Scattered Light on sdR-r2-00057877.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
38.2
27.3
16.4

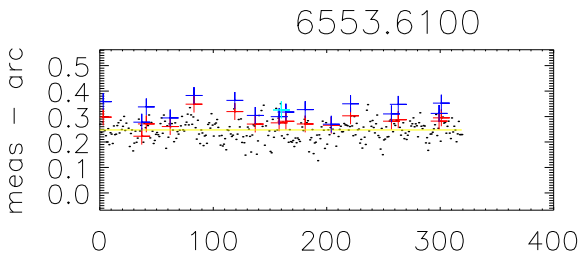

PLATE=3196 MJD=54834 Scattered Light on sdR-r2-00057877.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 17.307
Max value = 37.731
Fri Mar 12 23:33:27 2010

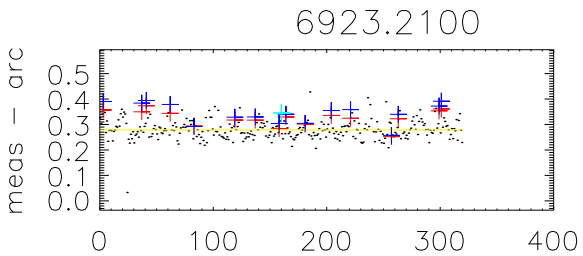

PLATE=3196 MJD=54834 Extraction chi^2 for sdR−r2−00057877.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

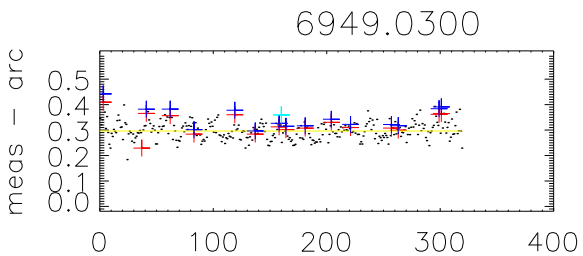

6300.3040
off: 0.33
sig: 0.004
6363.7760
off: 0.36
sig: 0.007
6553.6100
off: 0.33
sig: 0.012
6923.2100
off: 0.35
sig: 0.007
6949.0300
off: 0.36
sig: 0.007
7571.7500
off: 0.36
sig: 0.007
7794.1200
off: 0.22
sig: 0.004
7821.5100
off: 0.28
sig: 0.004
8399.1600
off: 0.30
sig: 0.004
8430.1700
off: 0.27
sig: 0.003
8885.8300
off: 0.30
sig: 0.003
8919.6100
off: 0.27
sig: 0.003

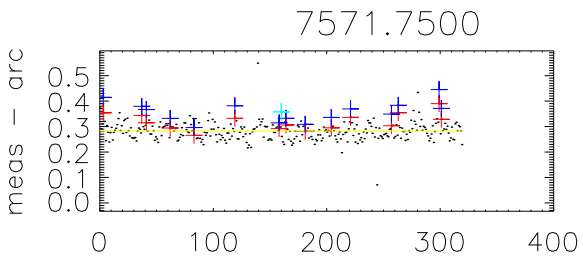

6300.3040
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

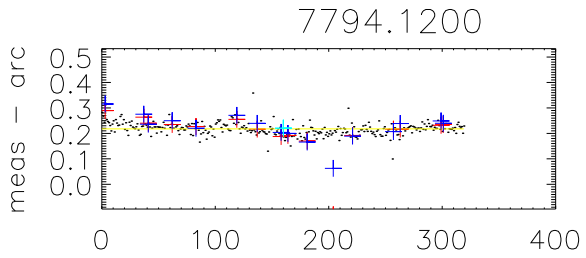

6363.7760
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

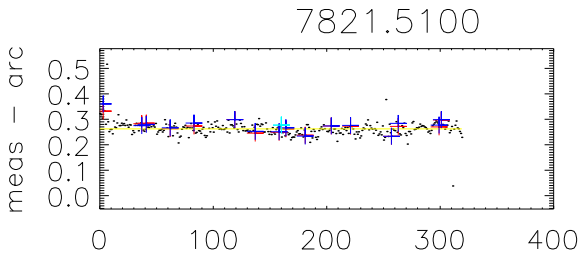

6553.6100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

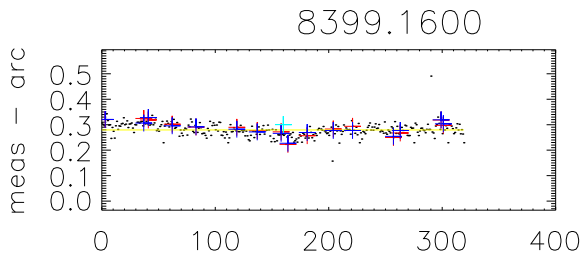

6923.2100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

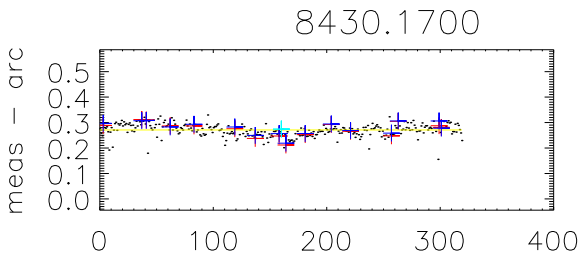

6949.0300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

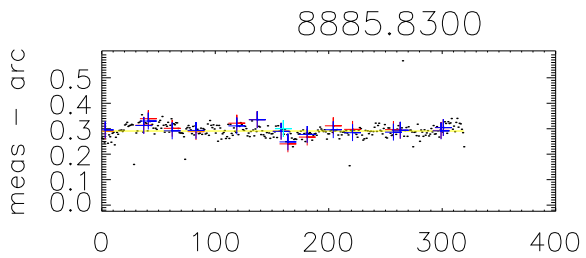

7571.7500
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

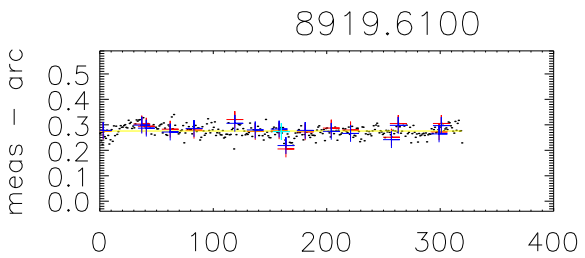

7794.1200
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

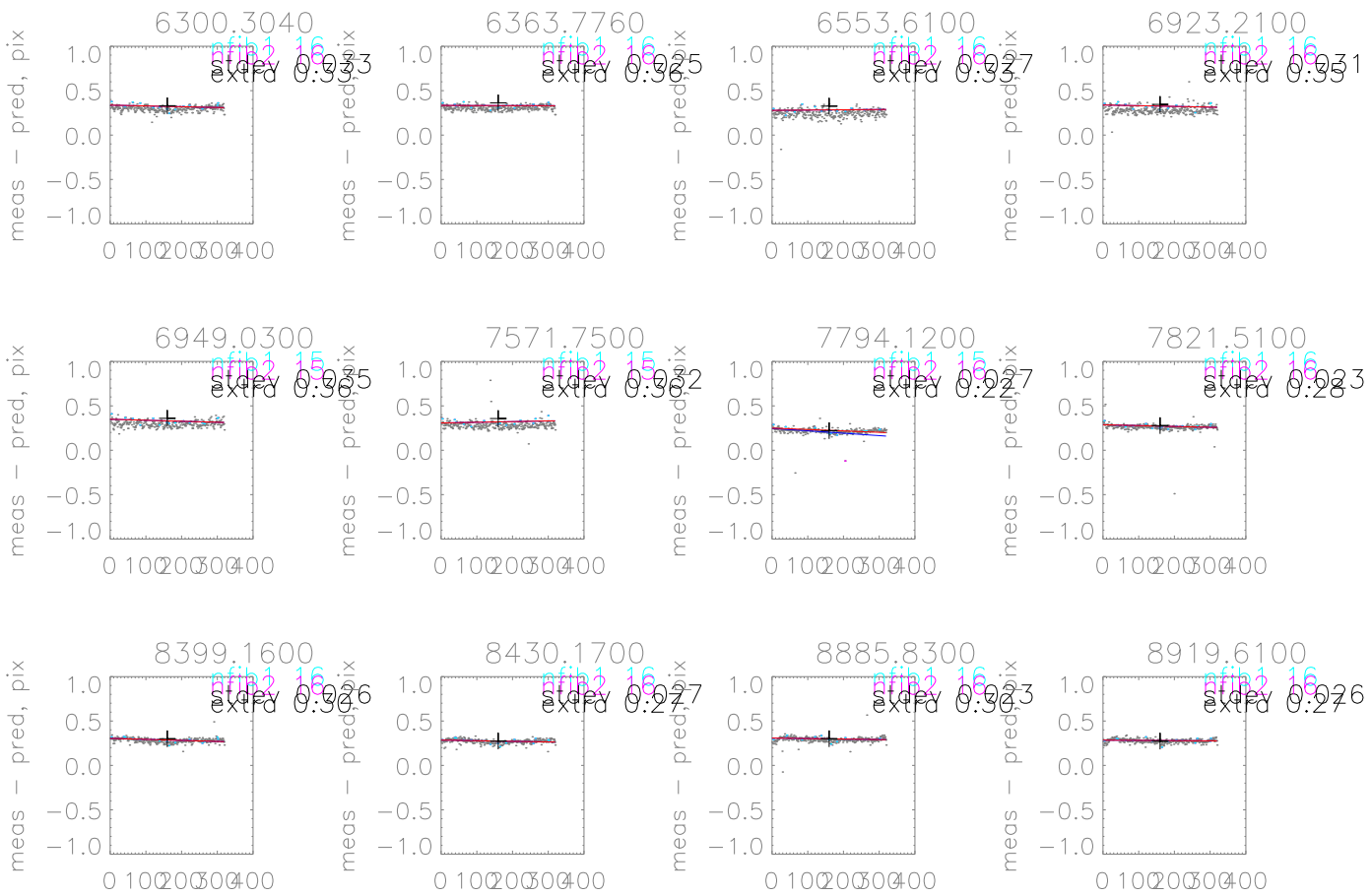

7821.5100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

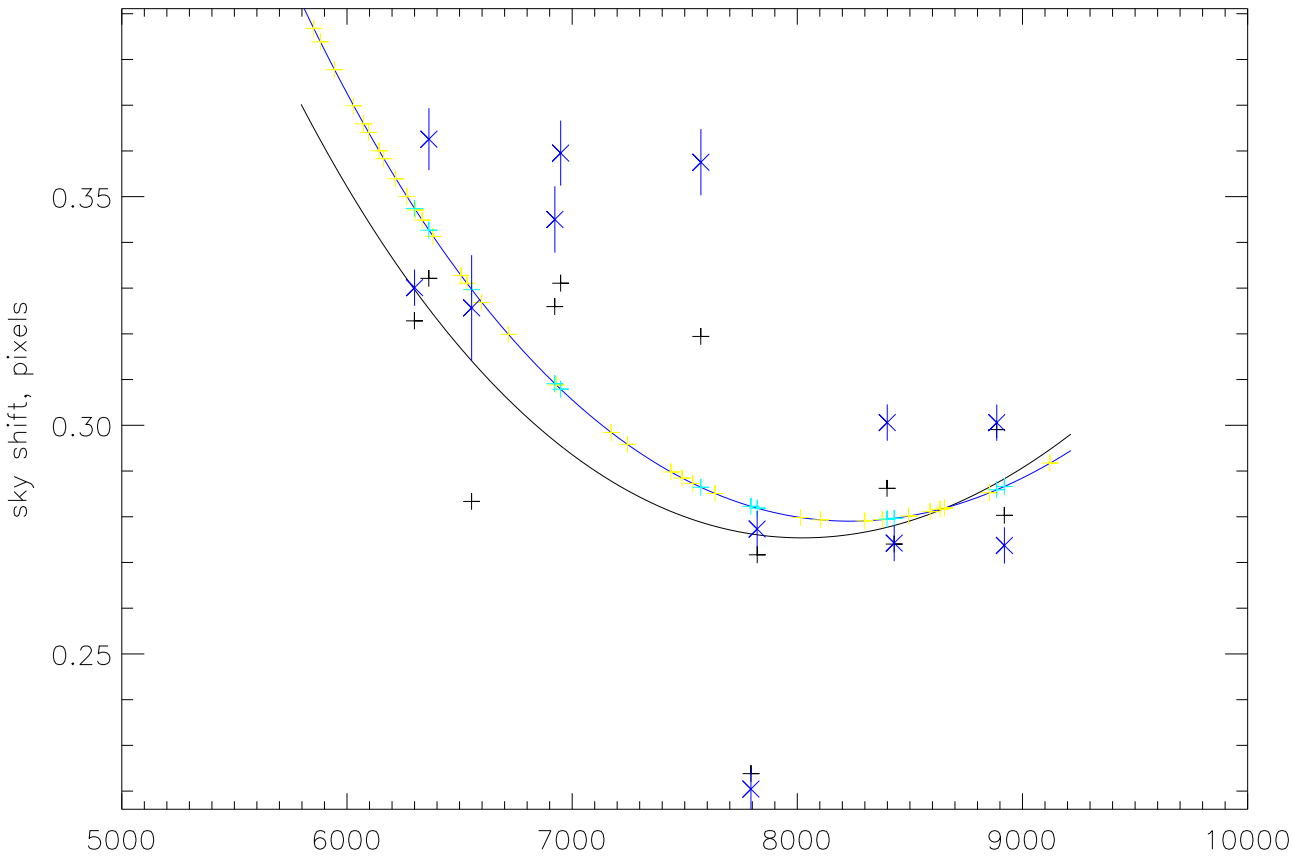

8399.1600
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400


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

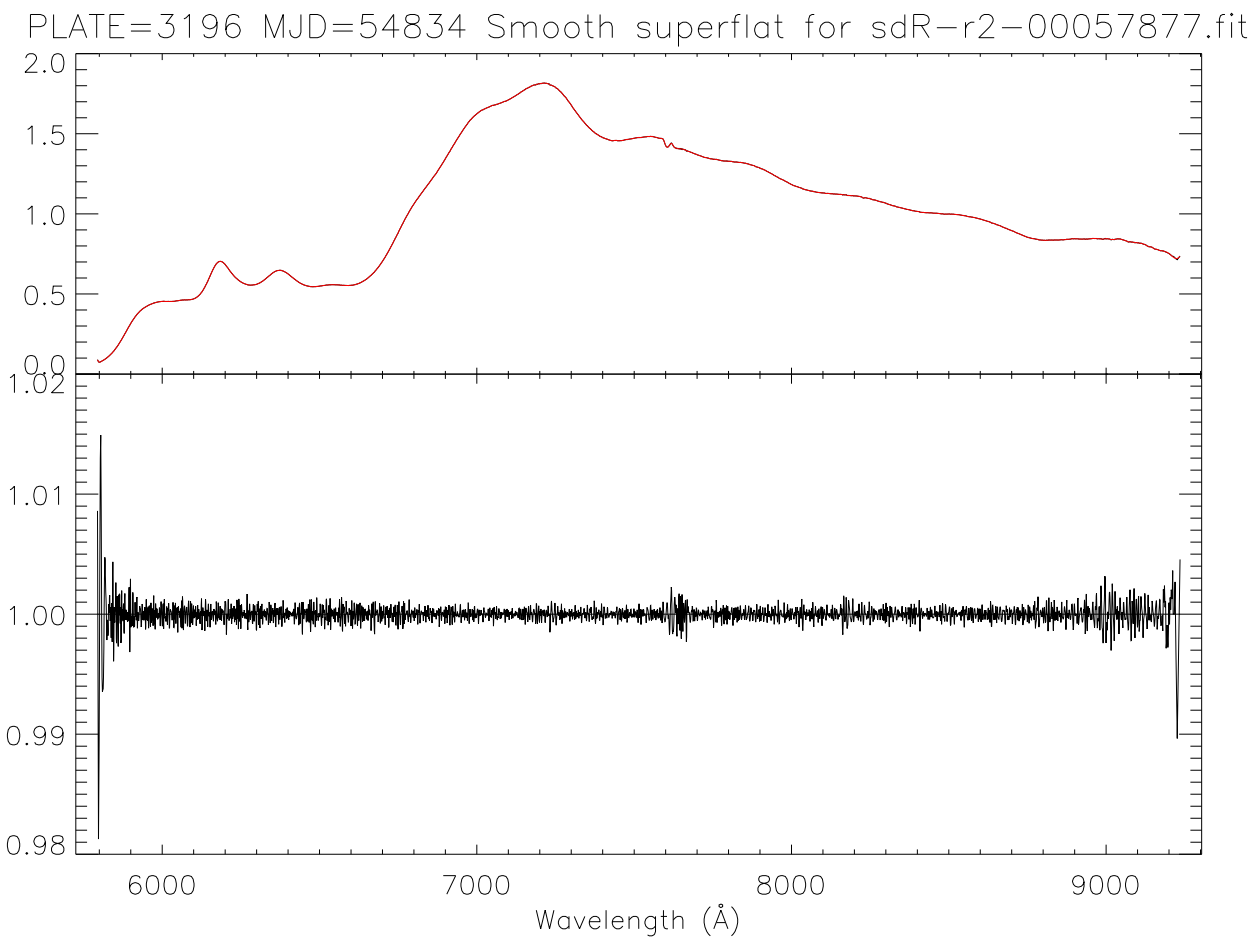

8885.8300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

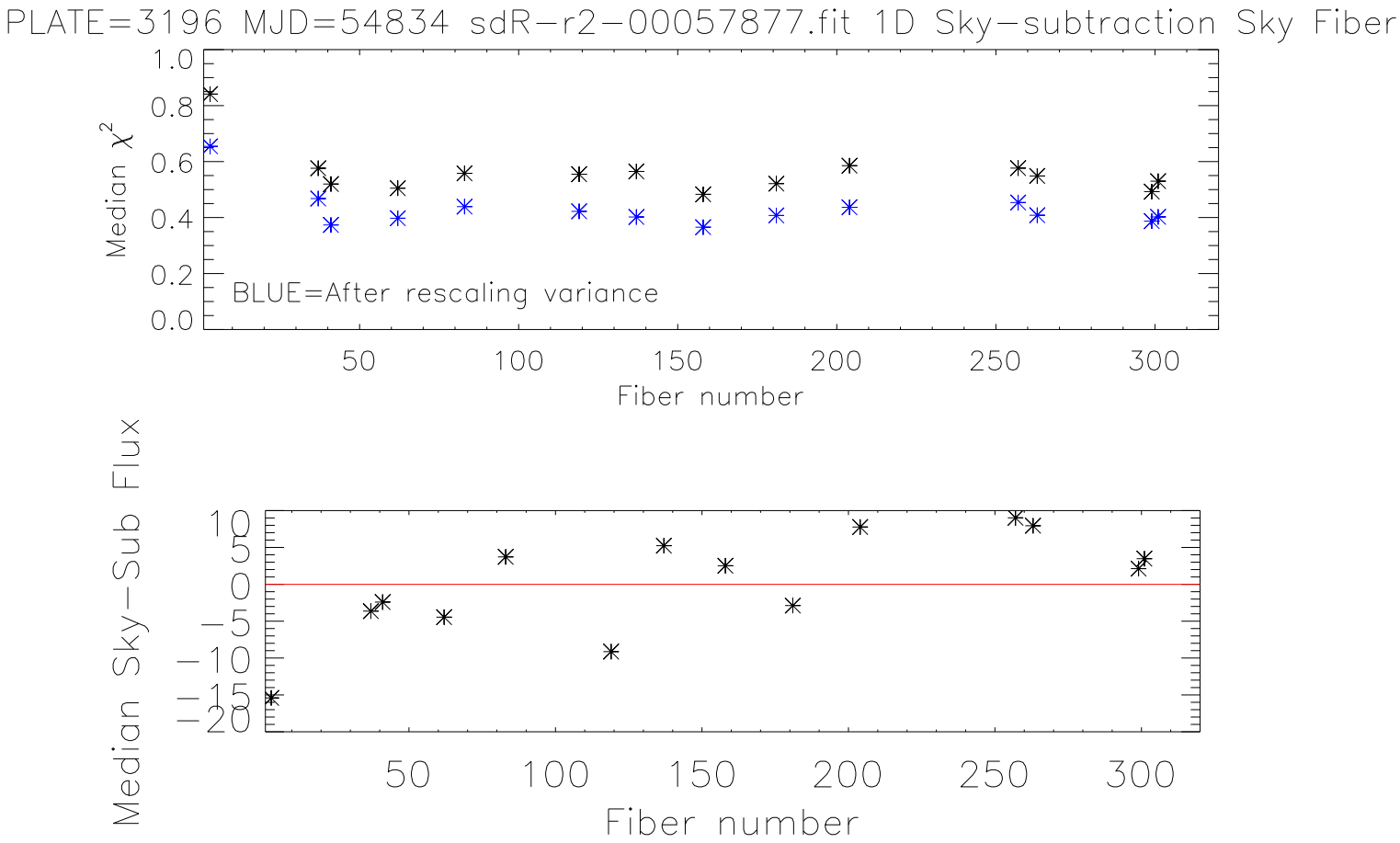

8919.6100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

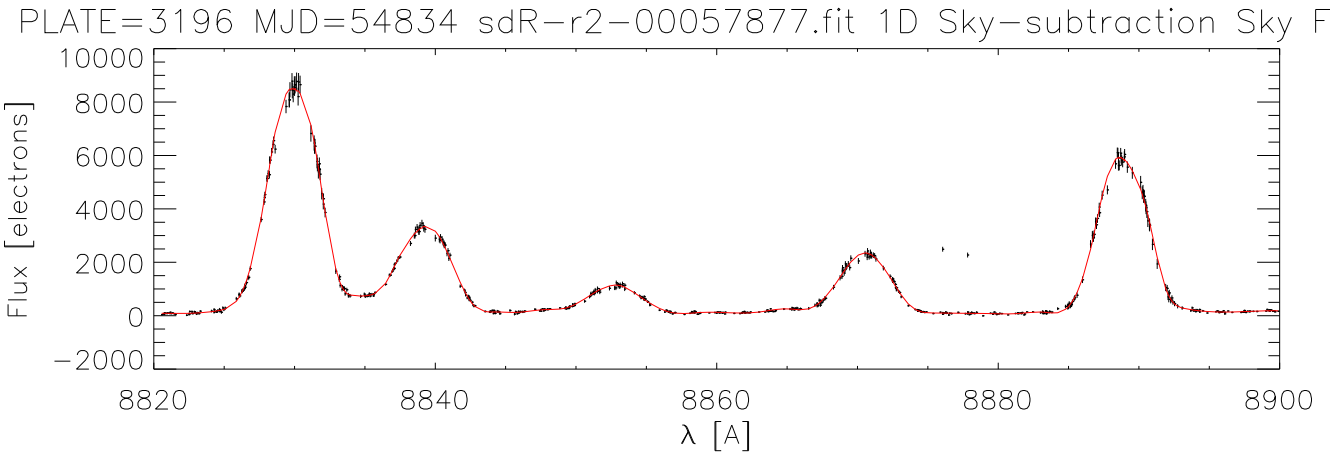

6300.3040
stdev 0.033
extra 0.33
6363.7760
stdev 0.025
extra 0.36
6553.6100
stdev 0.027
extra 0.33
6923.2100
stdev 0.031
extra 0.35
6949.0300
stdev 0.035
extra 0.36
7571.7500
stdev 0.032
extra 0.36
7794.1200
stdev 0.027
extra 0.22
7821.5100
stdev 0.023
extra 0.28
8399.1600
stdev 0.026
extra 0.34
8430.1700
stdev 0.027
extra 0.27
8885.8300
stdev 0.023
extra 0.34
8919.6100
stdev 0.026
extra 0.27
meas − pred, pix
mfib2 16
mfib1 16
mfib2 15

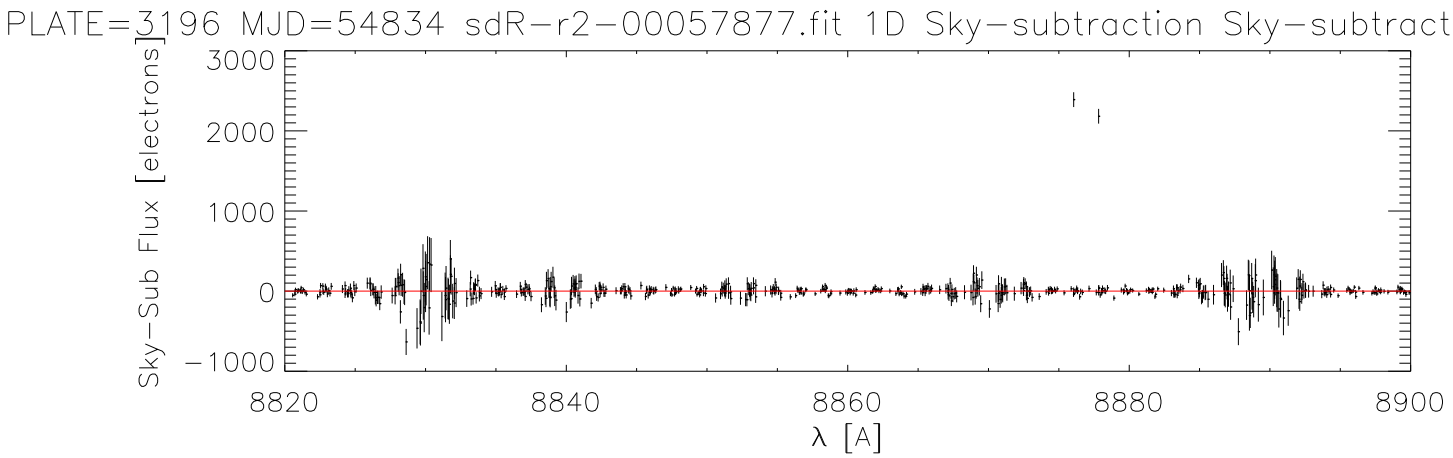

sky shift, pixels
0.35
0.30
0.25
5000
6000
7000
8000
9000
10000

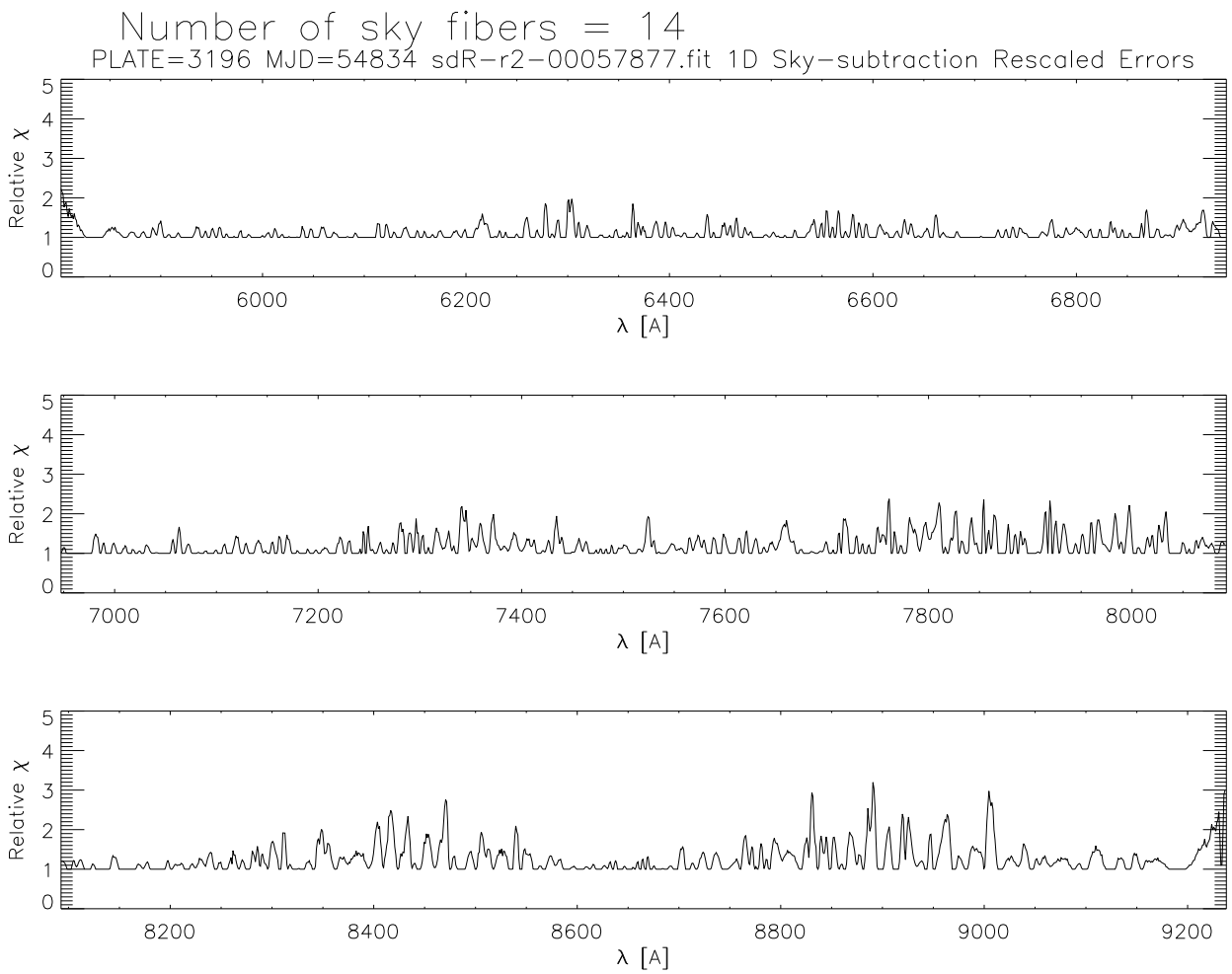
es= 0.0000

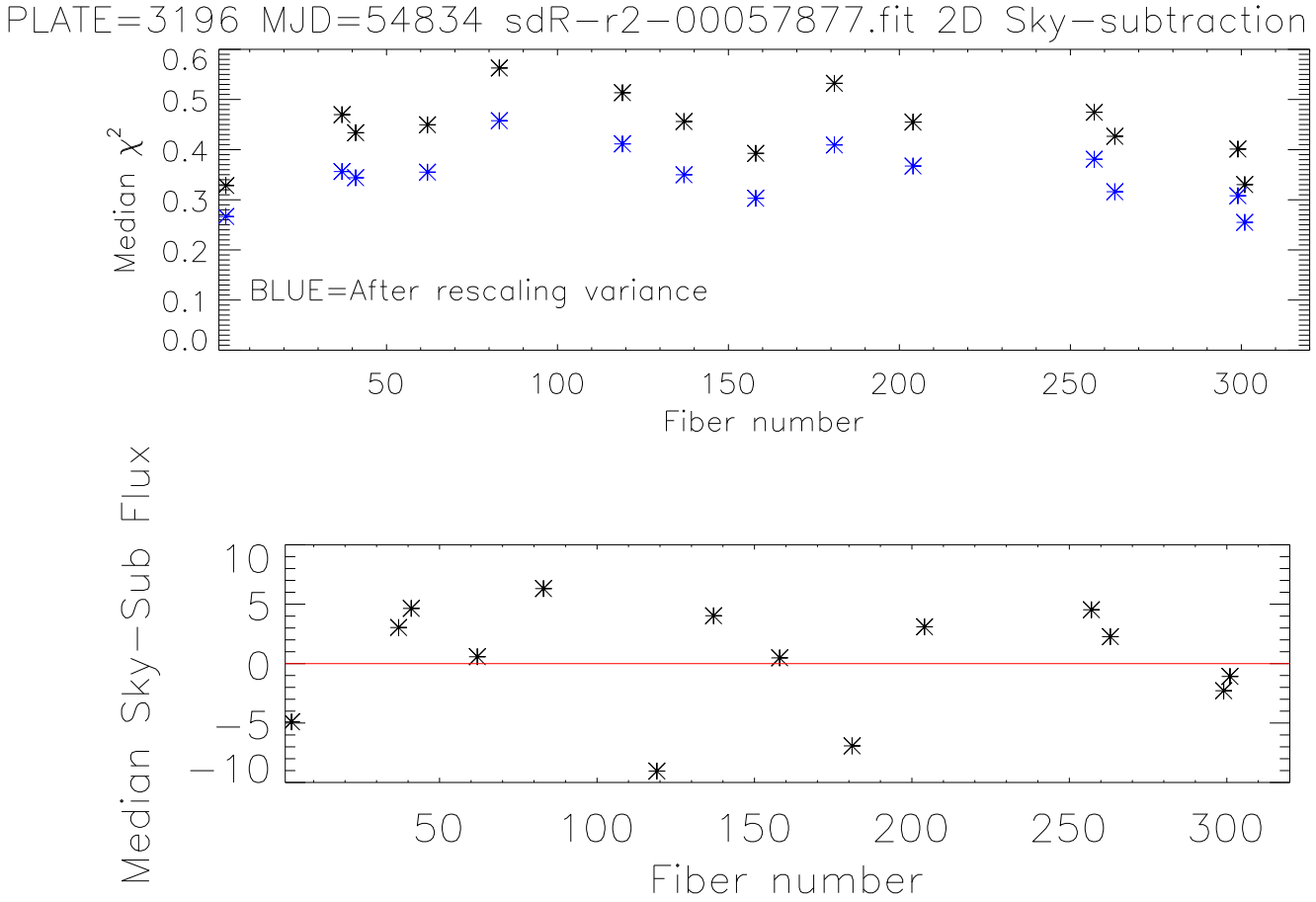

PLATE=3196 MJD=54834 Smooth superflat for sdR-r2-00057877.fit
2.0
1.5
1.0
0.5
0.0
1.02
1.01
1.00
0.99
0.98
6000
7000
8000
9000
Wavelength (Å)

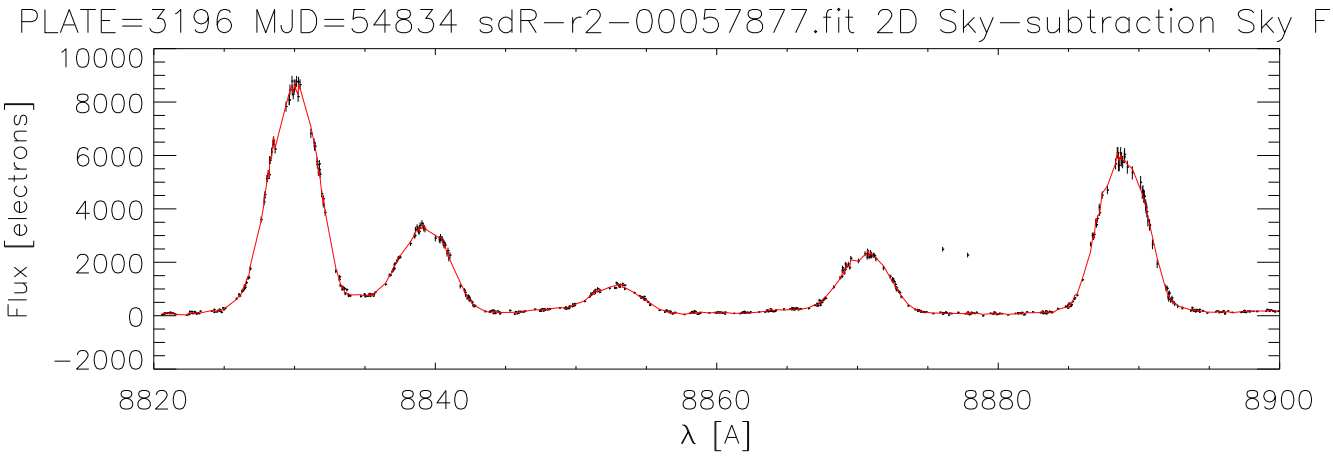

PLATE=3196 MJD=54834 sdR-r2-00057877.fit 1D Sky-subtraction Sky Fibers
Median χ^2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
-20
50
100
150
200
250
300
Fiber number

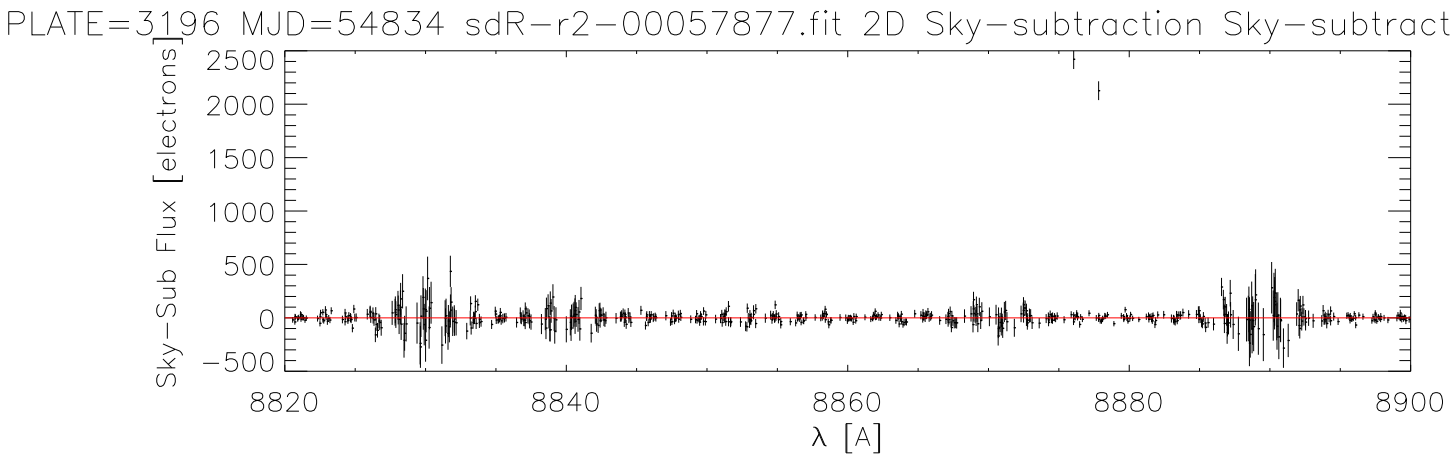

PLATE=3196 MJD=54834 sdR-r2-00057877.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
-2000
8820
8840
8860
8880
8900
λ [A]

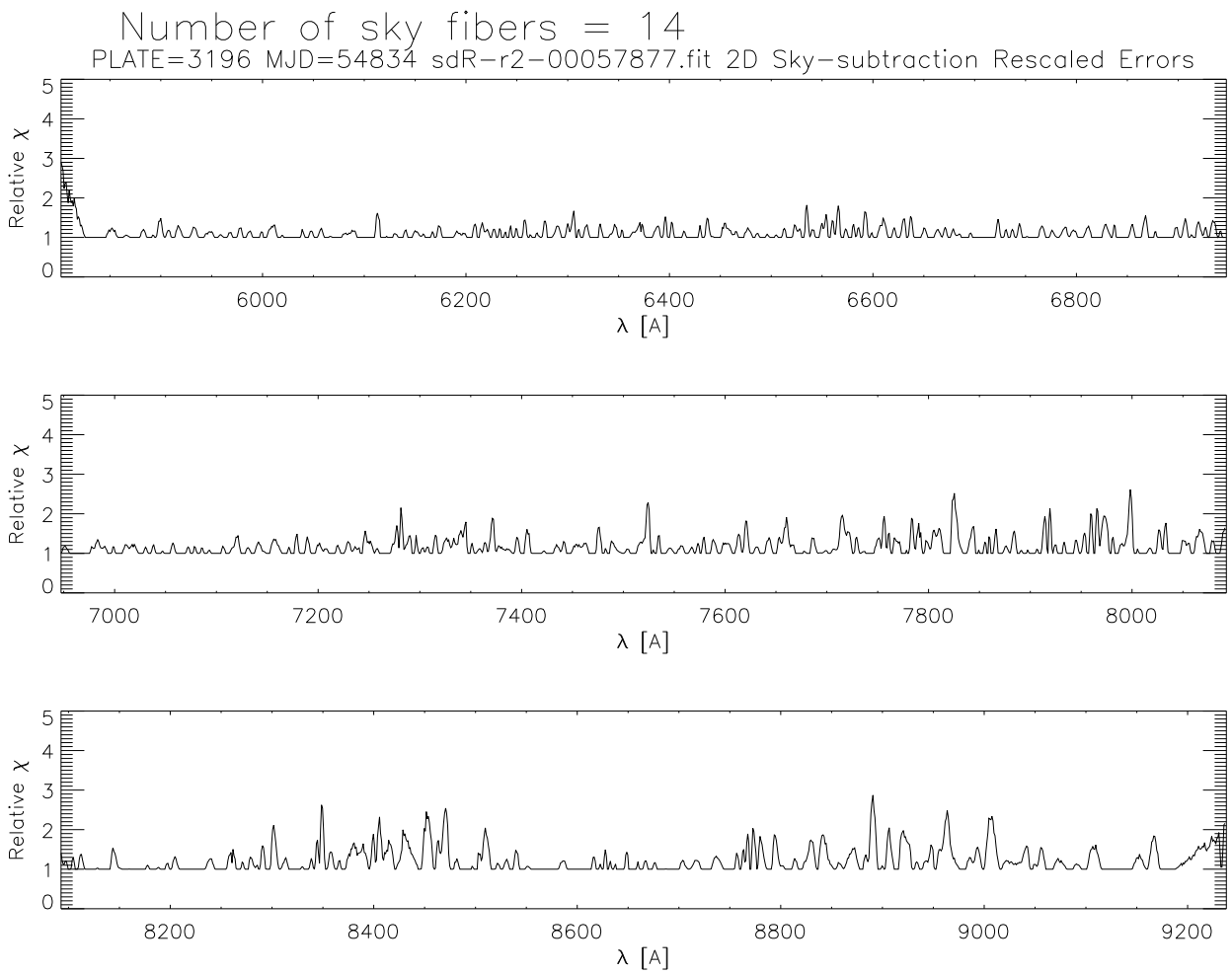

PLATE=3196 MJD=54834 sdR-r2-00057877.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

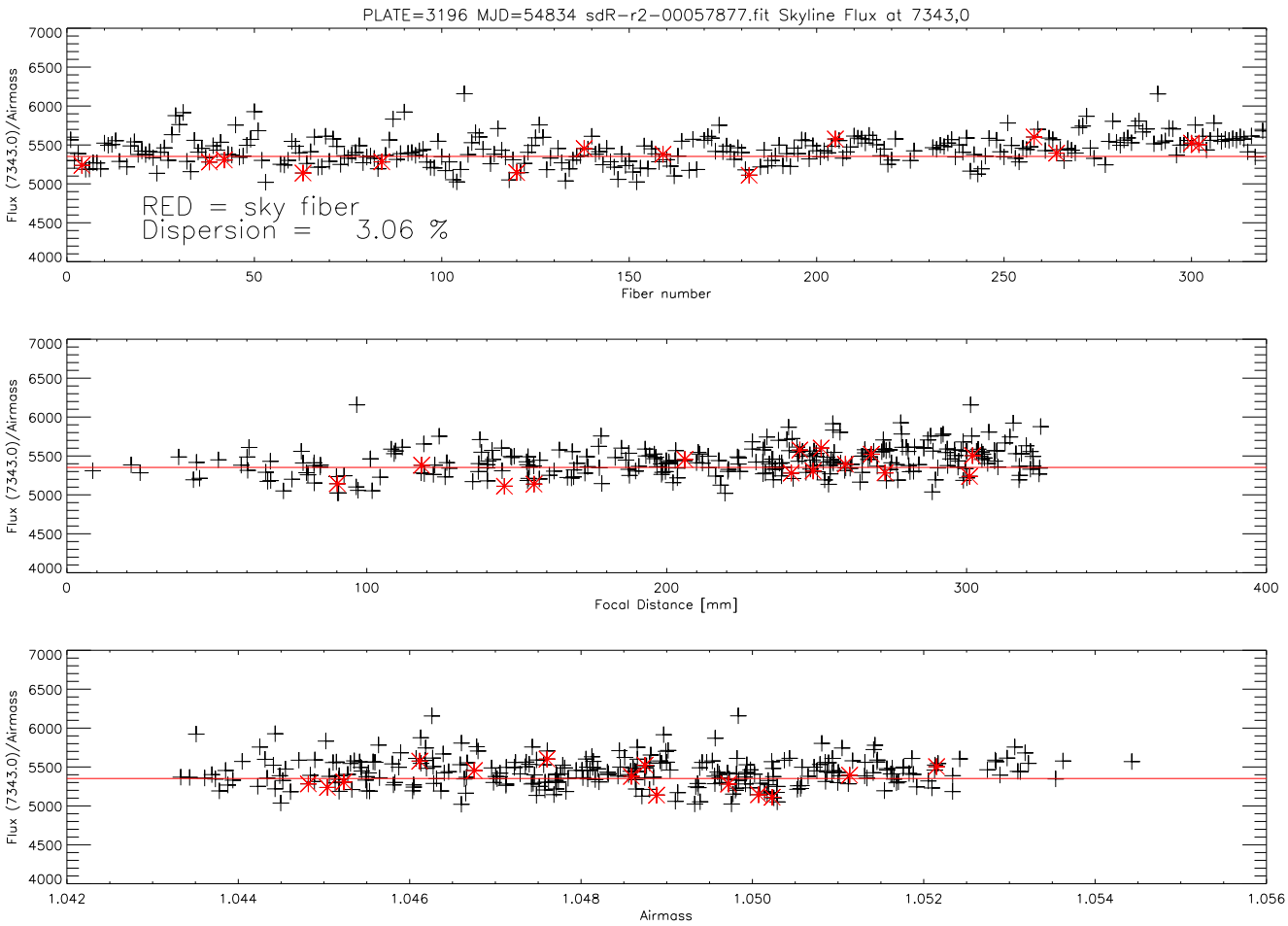

Number of sky fibers = 14
PLATE=3196 MJD=54834 sdR-r2-00057877.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

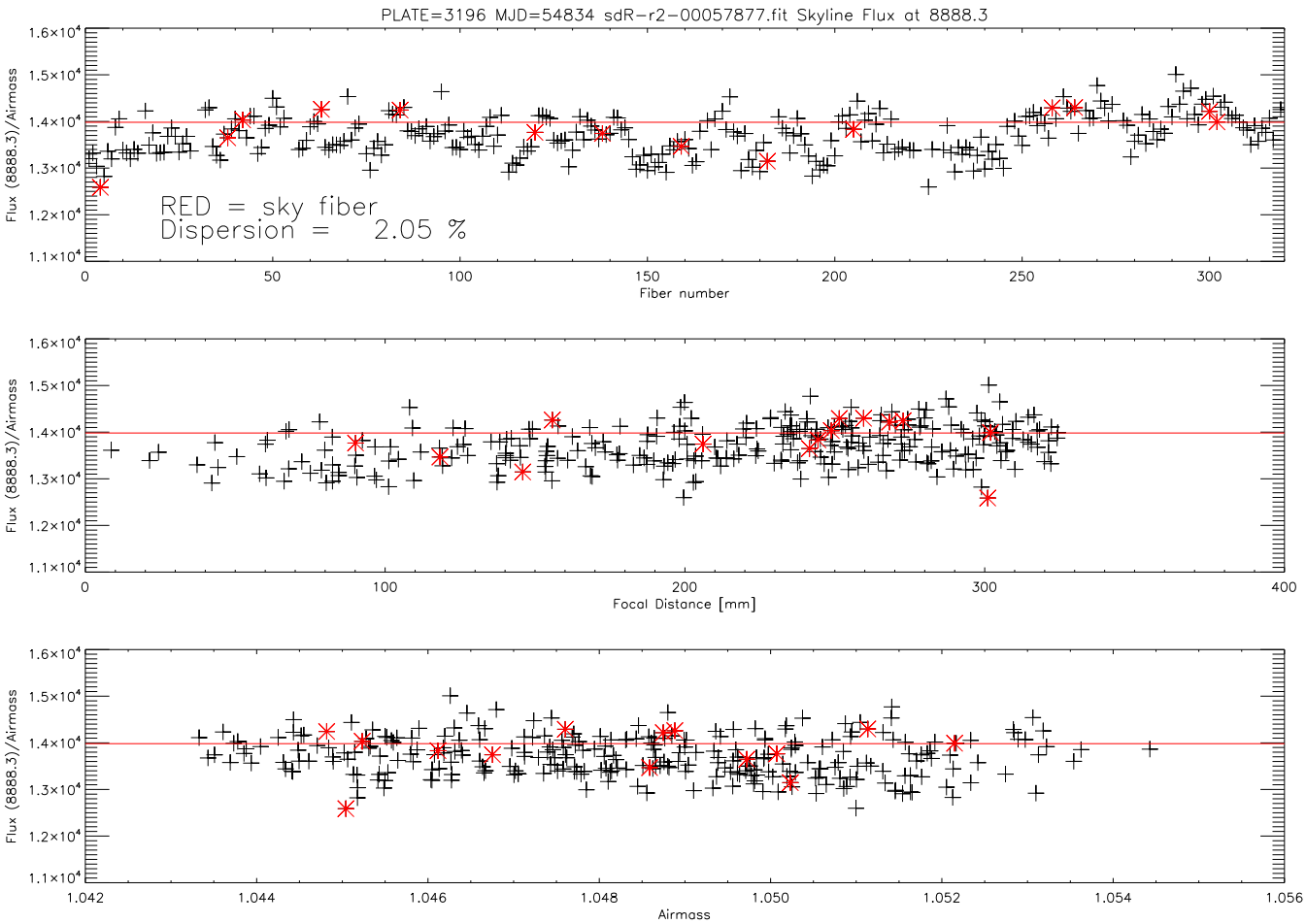

PLATE=3196 MJD=54834 sdR-r2-00057877.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number


PLATE=3196 MJD=54834 sdR-r2-00057877.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
-2000
8820
8840
8860
8880
8900
λ [A]


PLATE=3196 MJD=54834 sdR-r2-00057877.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=3196 MJD=54834 sdR-r2-00057877.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200


PLATE=3196 MJD=54834 sdR-r2-00057877.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.06 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass


PLATE=3196 MJD=54834 sdR-r2-00057877.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.05 %
Fiber number
Focal Distance [mm]
Airmass