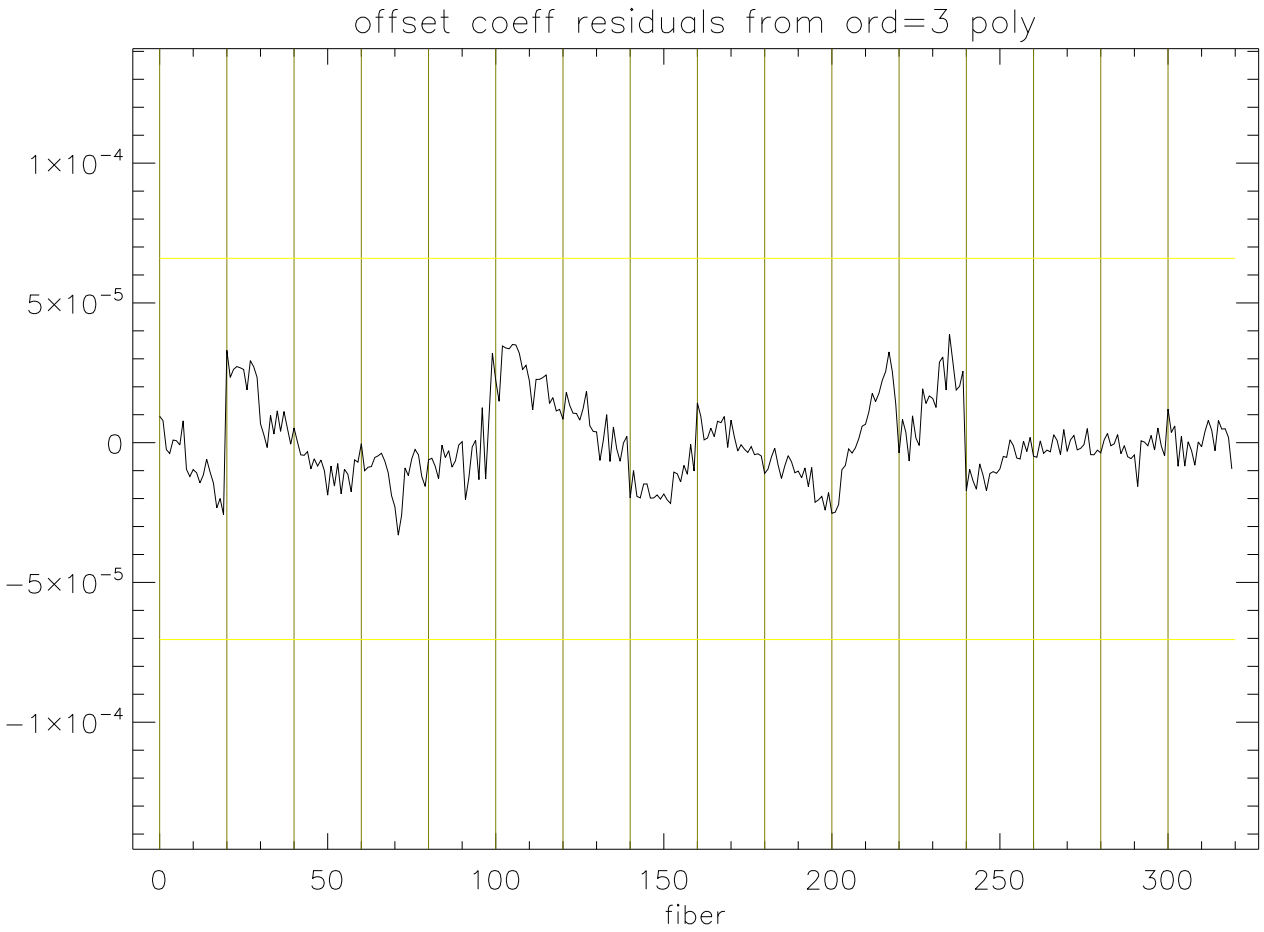
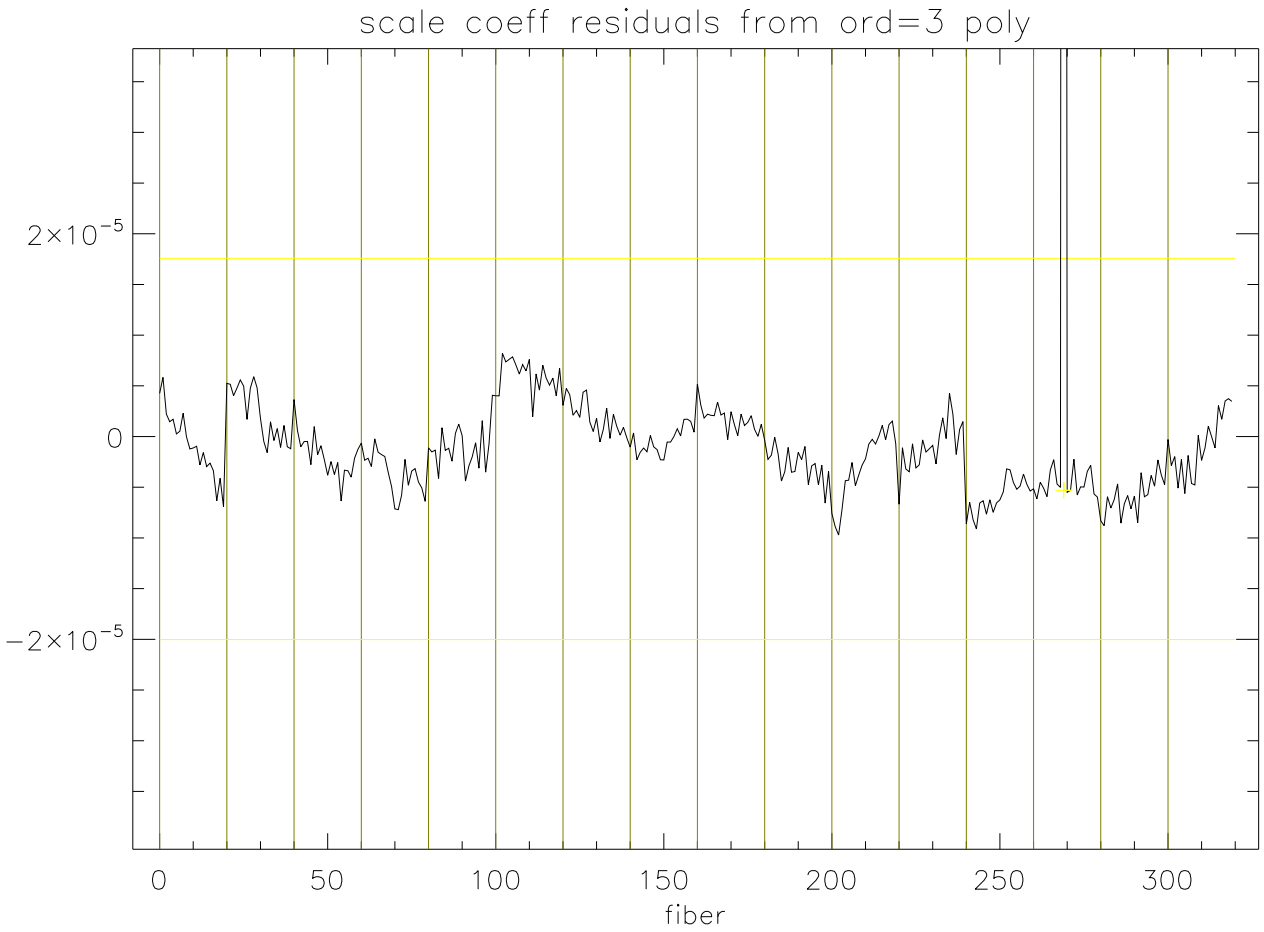
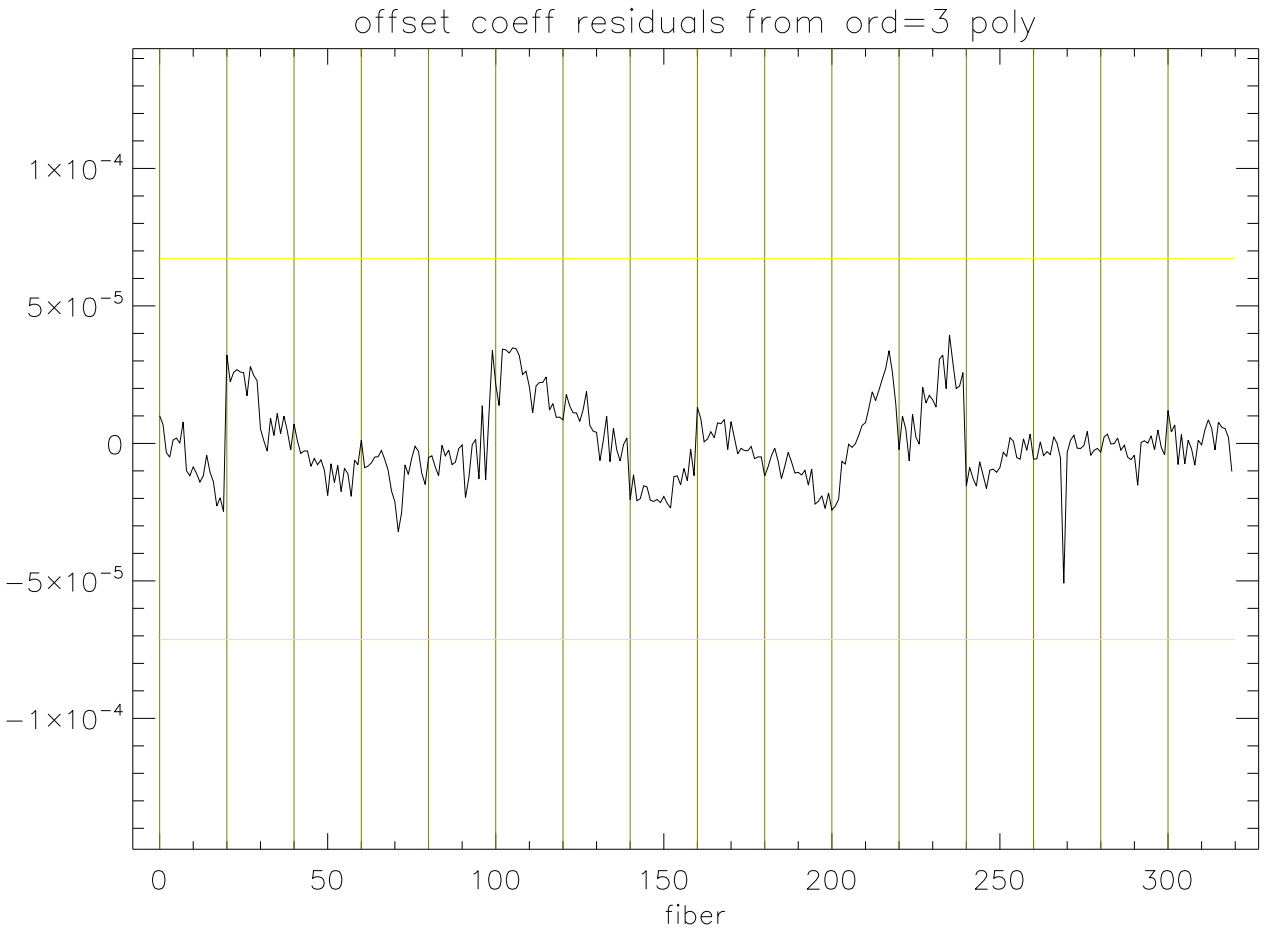
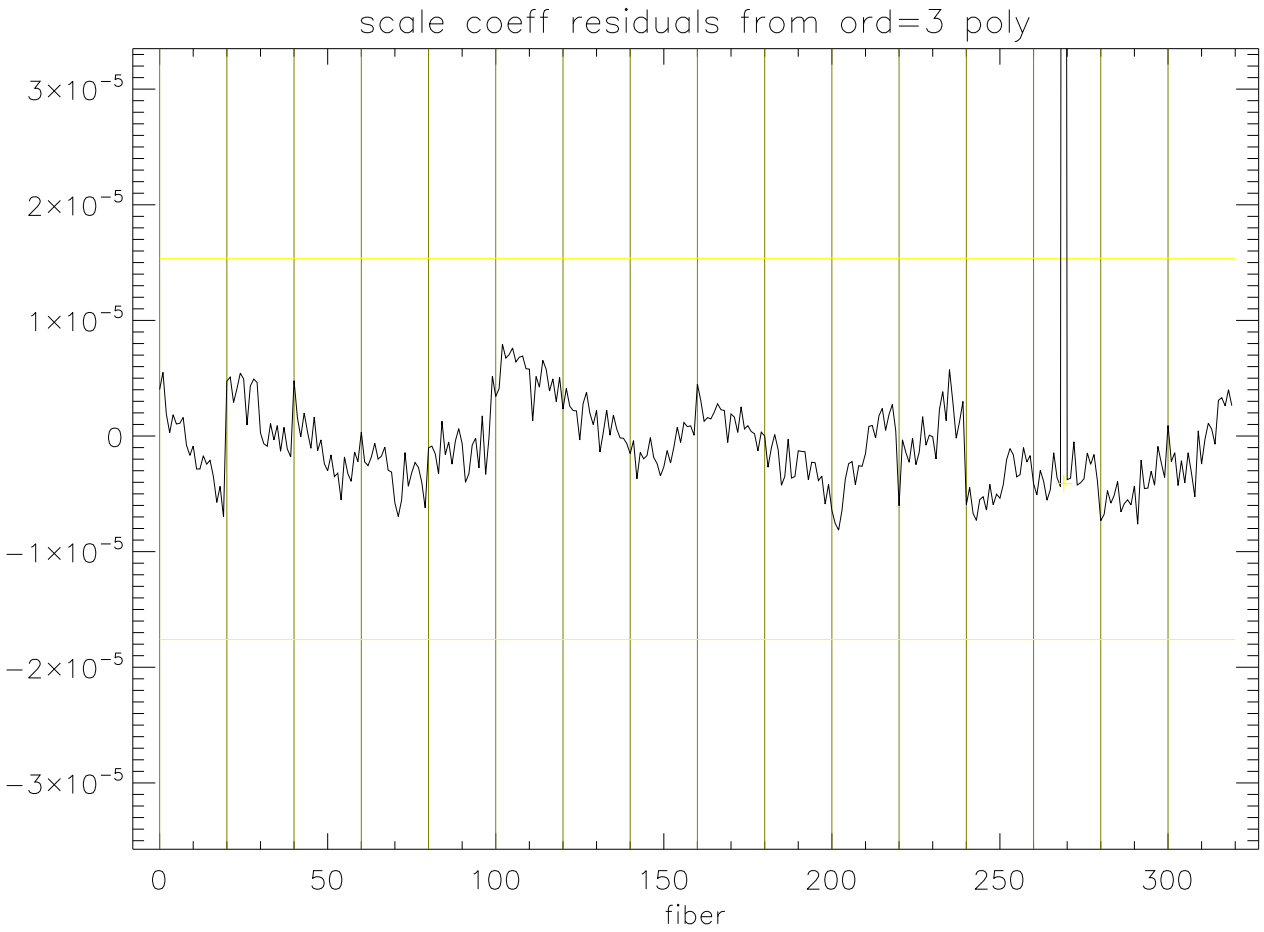
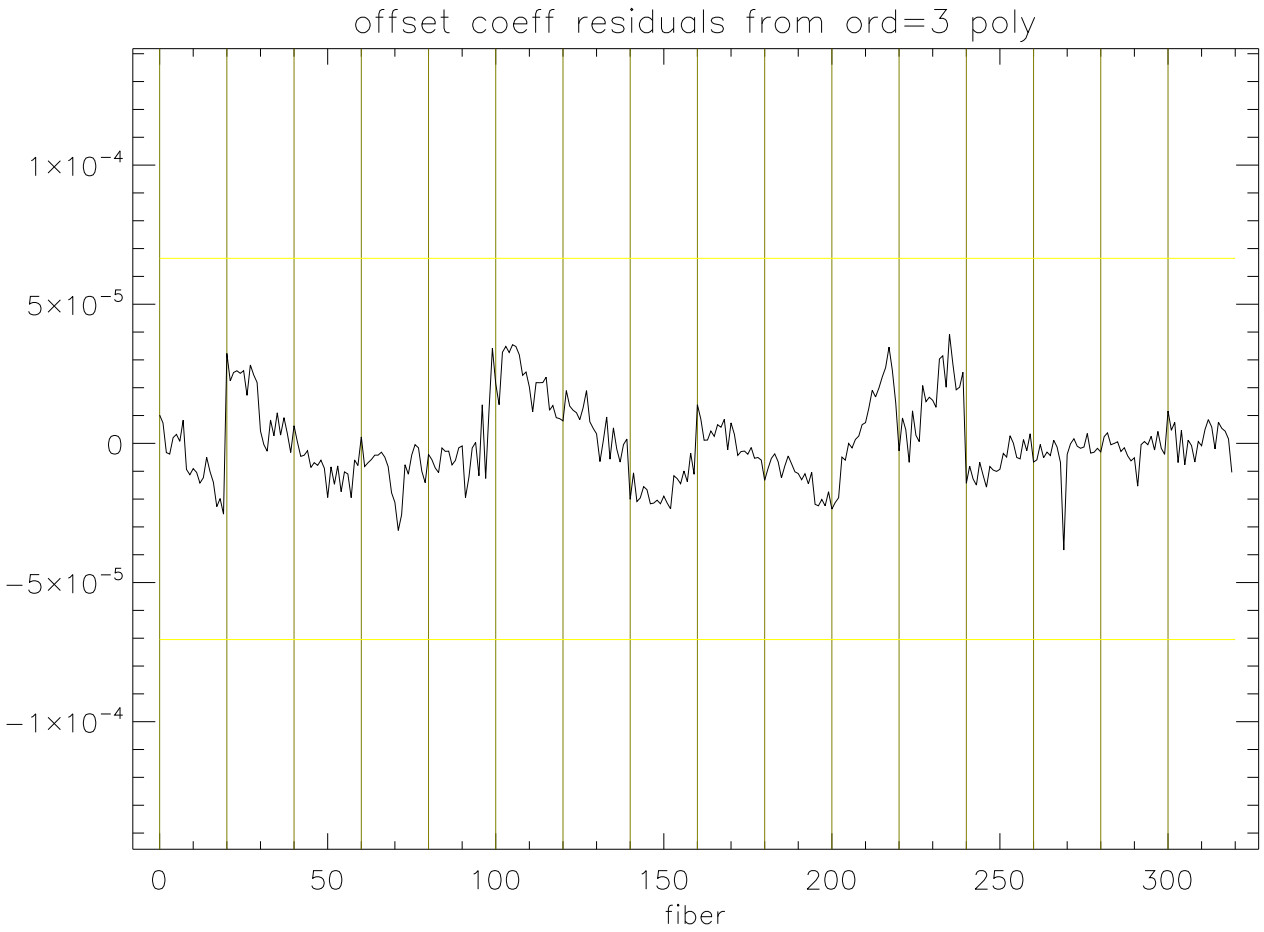
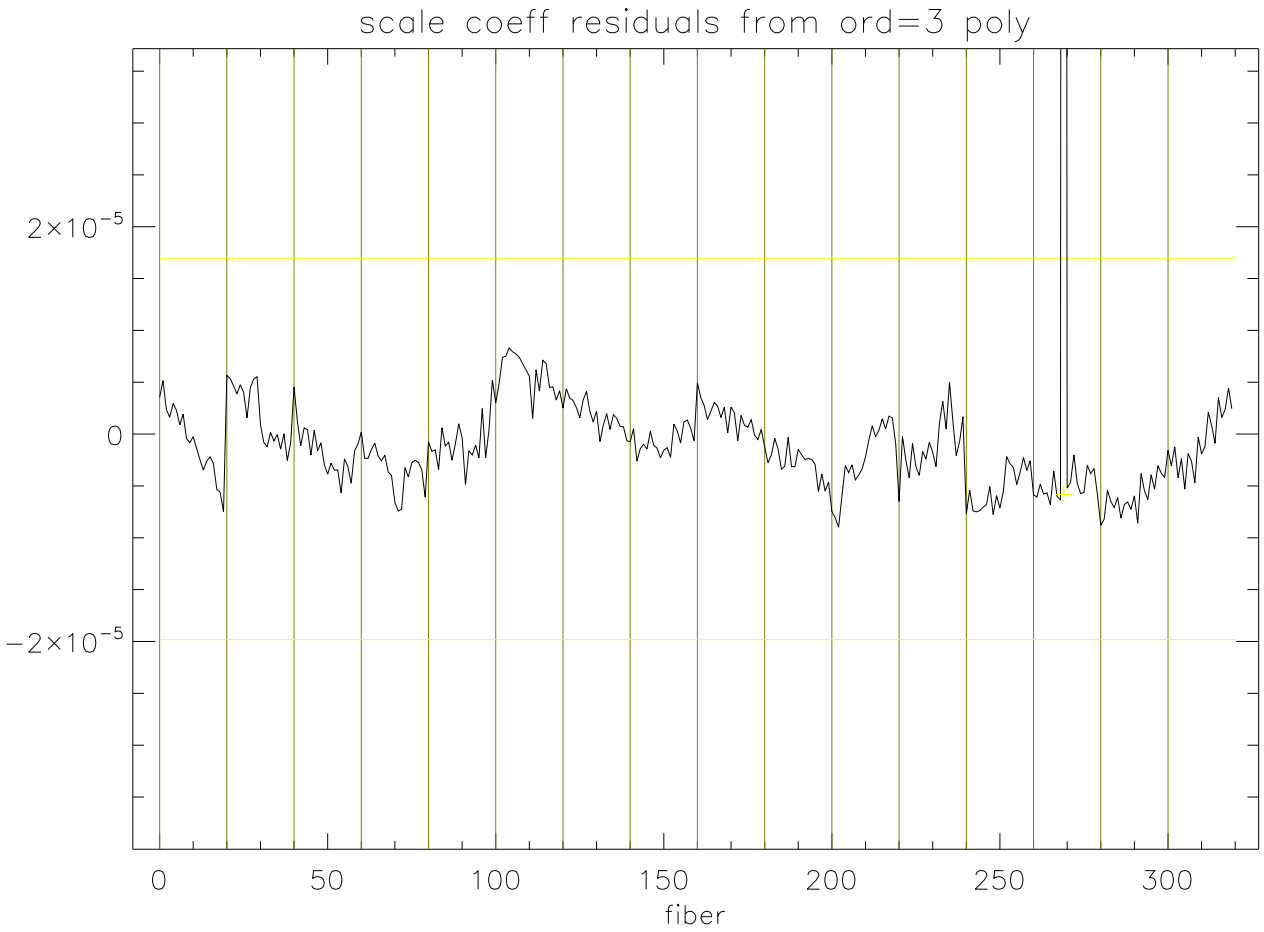

offset coeff residuals from ord=3 poly
1×10⁻⁴
5×10⁻⁵
0
−5×10⁻⁵
−1×10⁻⁴
0
50
100
150
200
250
300
fiber

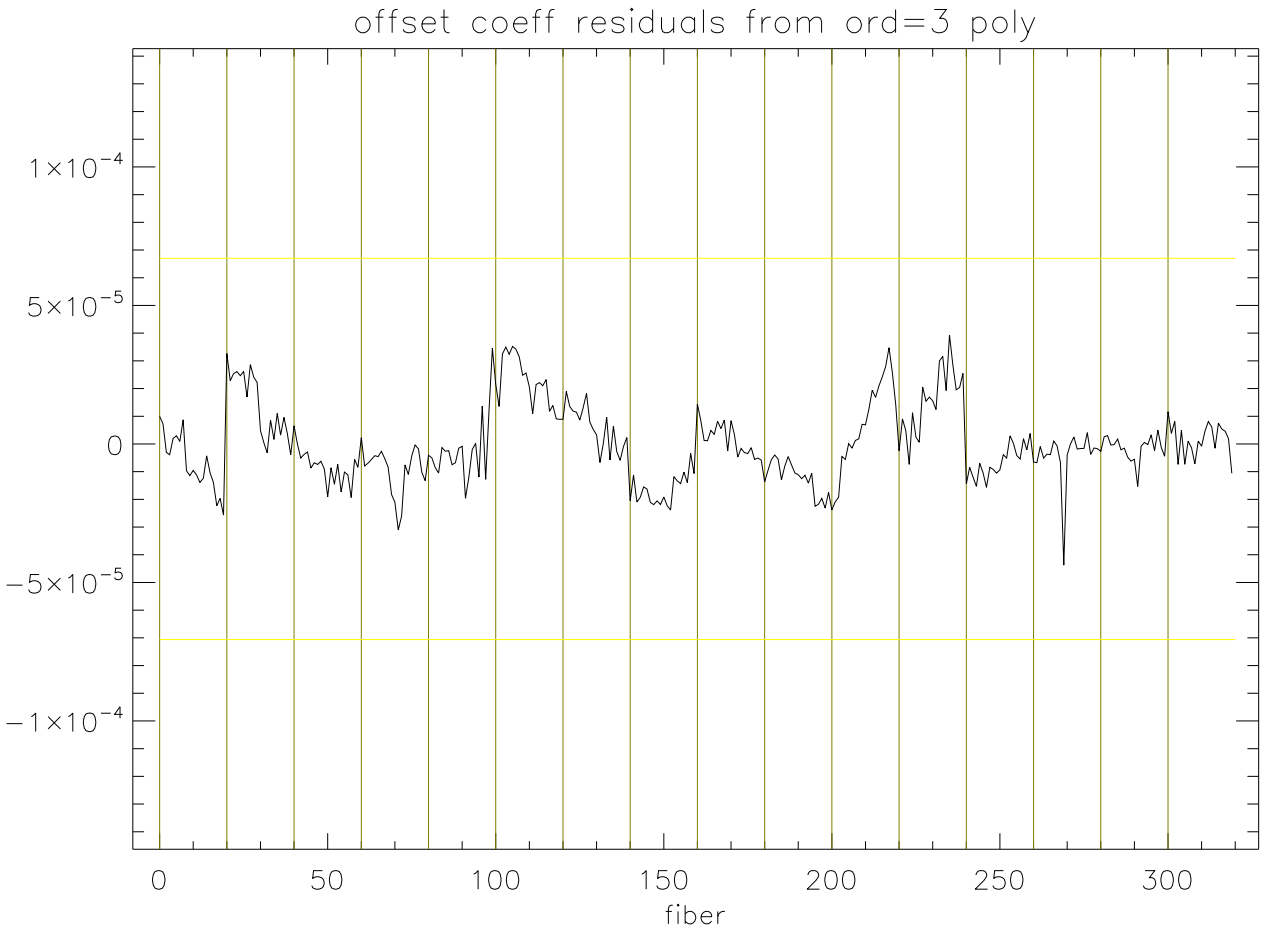

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

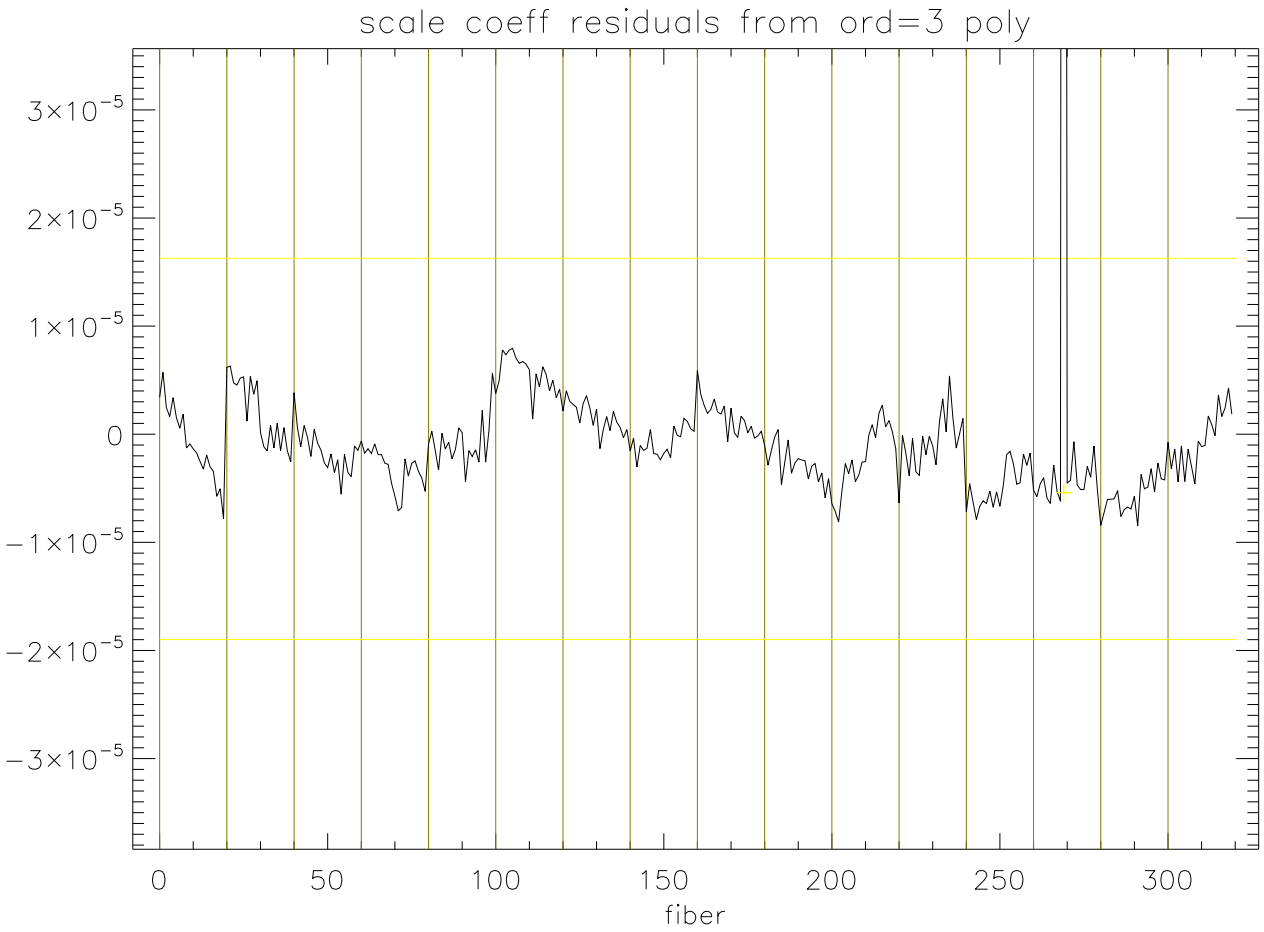

offset coeff residuals from ord=3 poly
1×10⁻⁴
5×10⁻⁵
0
−5×10⁻⁵
−1×10⁻⁴
0
50
100
150
200
250
300
fiber

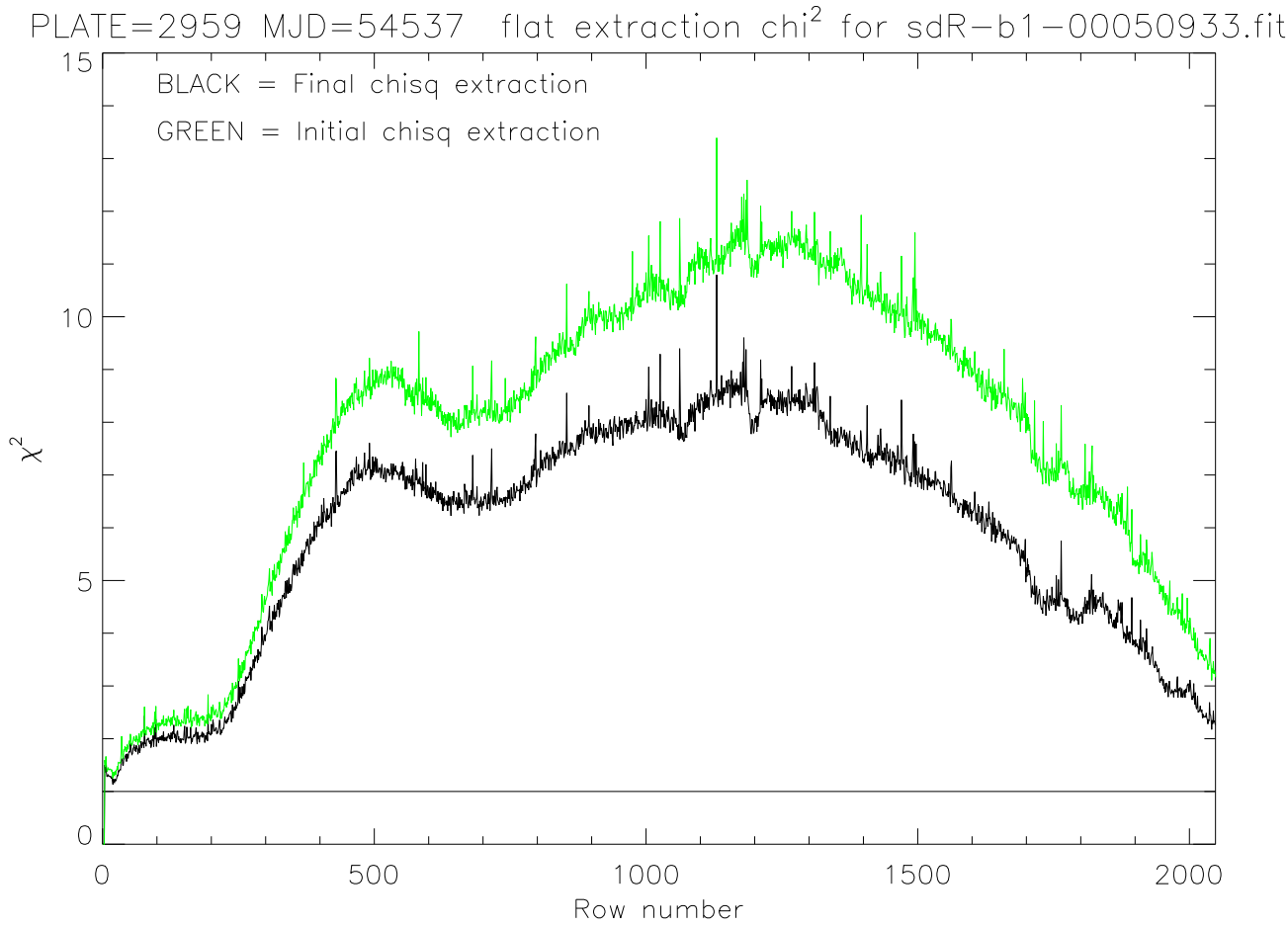

scale coeff residuals from ord=3 poly
3×10^-5
2×10^-5
1×10^-5
0
−1×10^-5
−2×10^-5
−3×10^-5
0
50
100
150
200
250
300
fiber

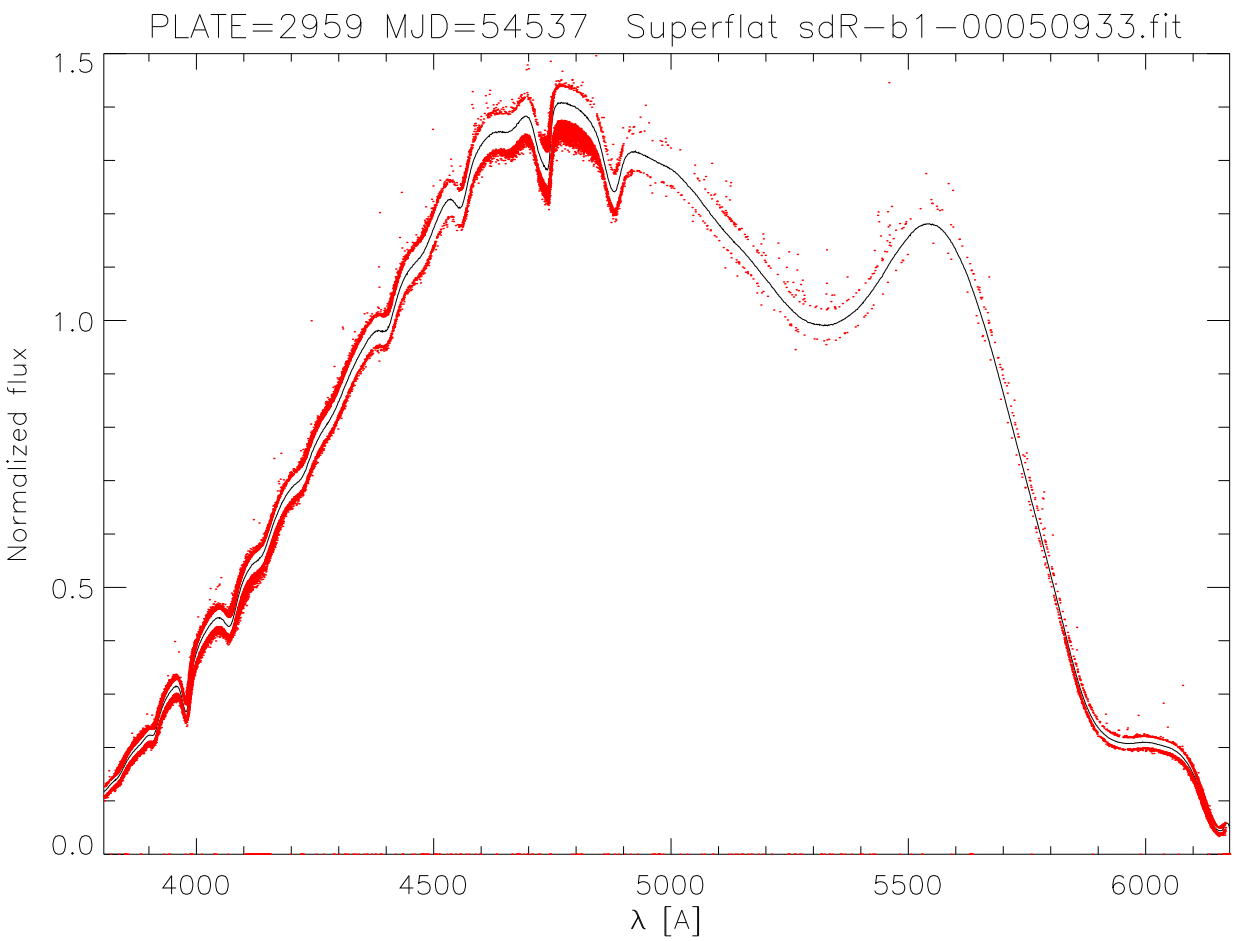

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

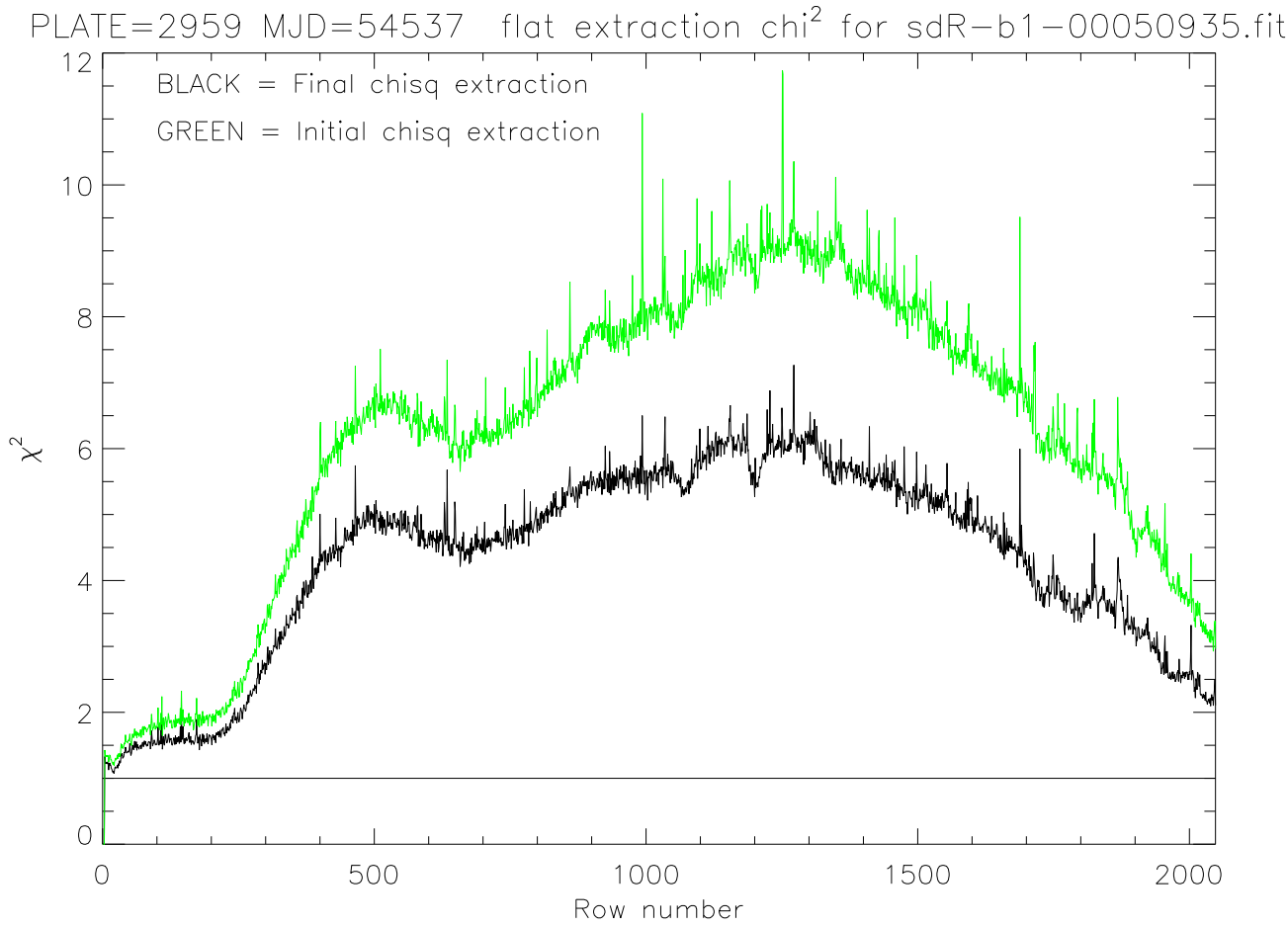

scale coeff residuals from ord=3 poly
2×10^-5
0
−2×10^-5
0
50
100
150
200
250
300
fiber

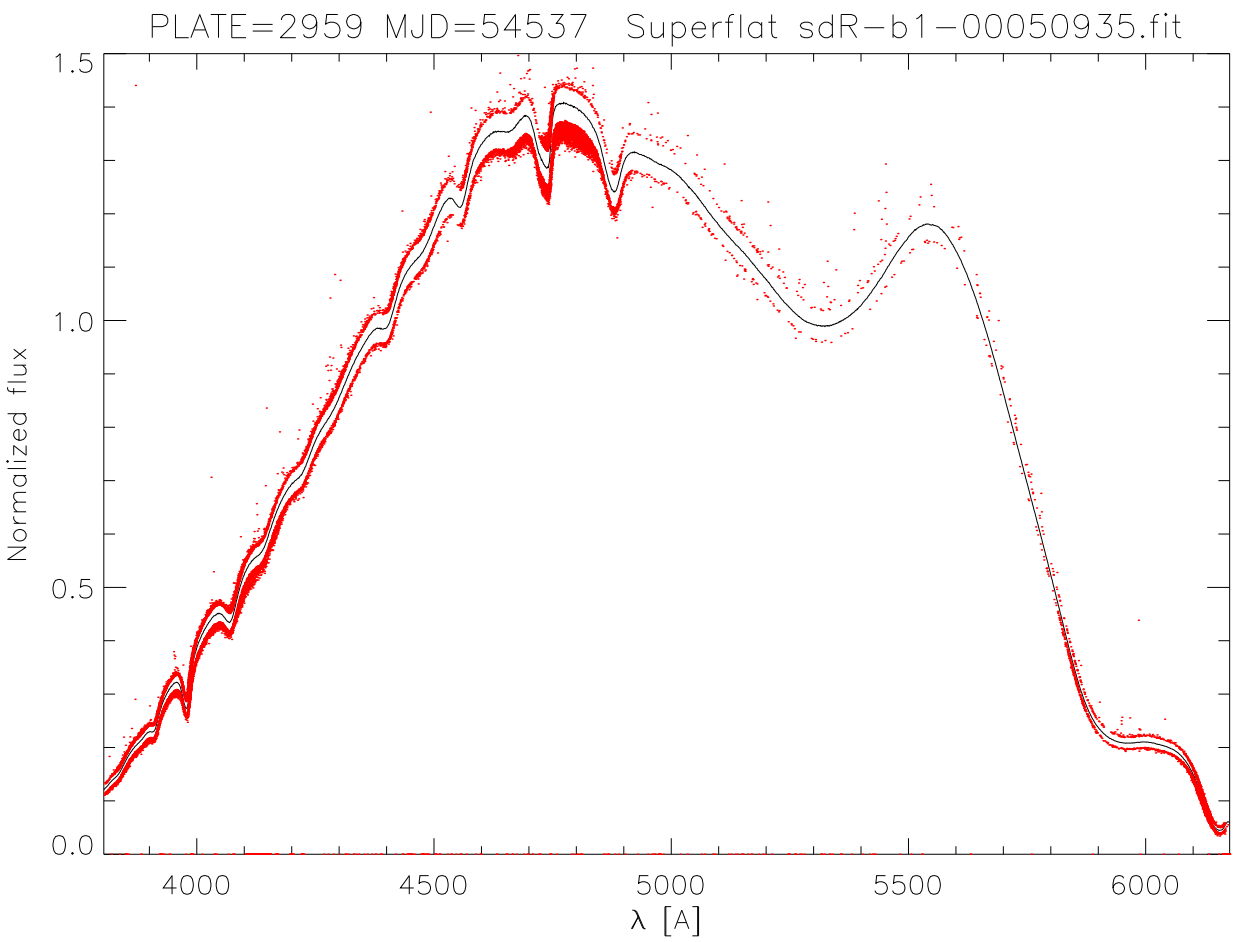

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

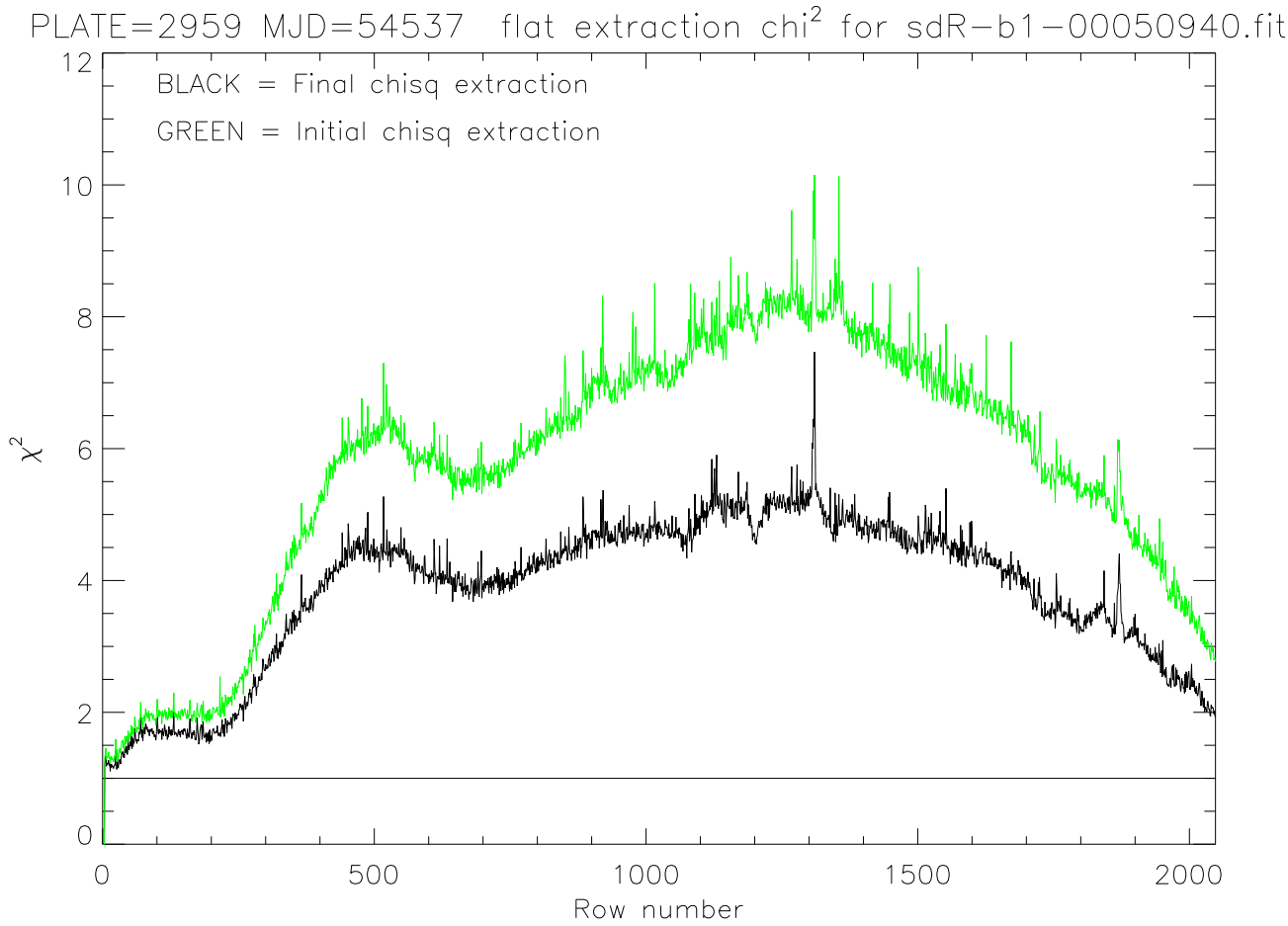

scale coeff residuals from ord=3 poly
3×10^-5
2×10^-5
1×10^-5
0
−1×10^-5
−2×10^-5
−3×10^-5
0
50
100
150
200
250
300
fiber

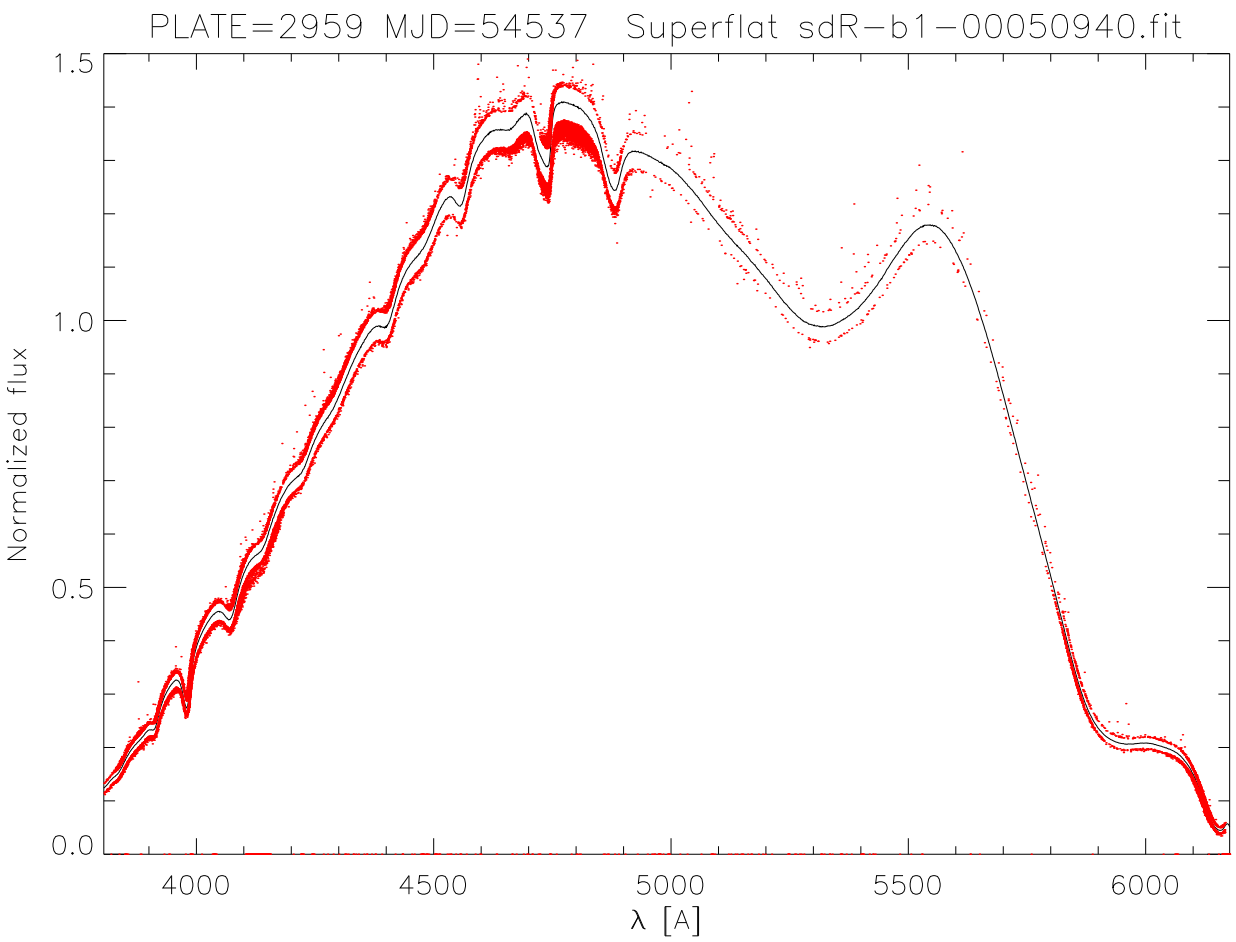

PLATE=2959 MJD=54537 flat extraction chi^2 for sdR−b1−00050933.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
5
10
15
0
500
1000
1500
2000

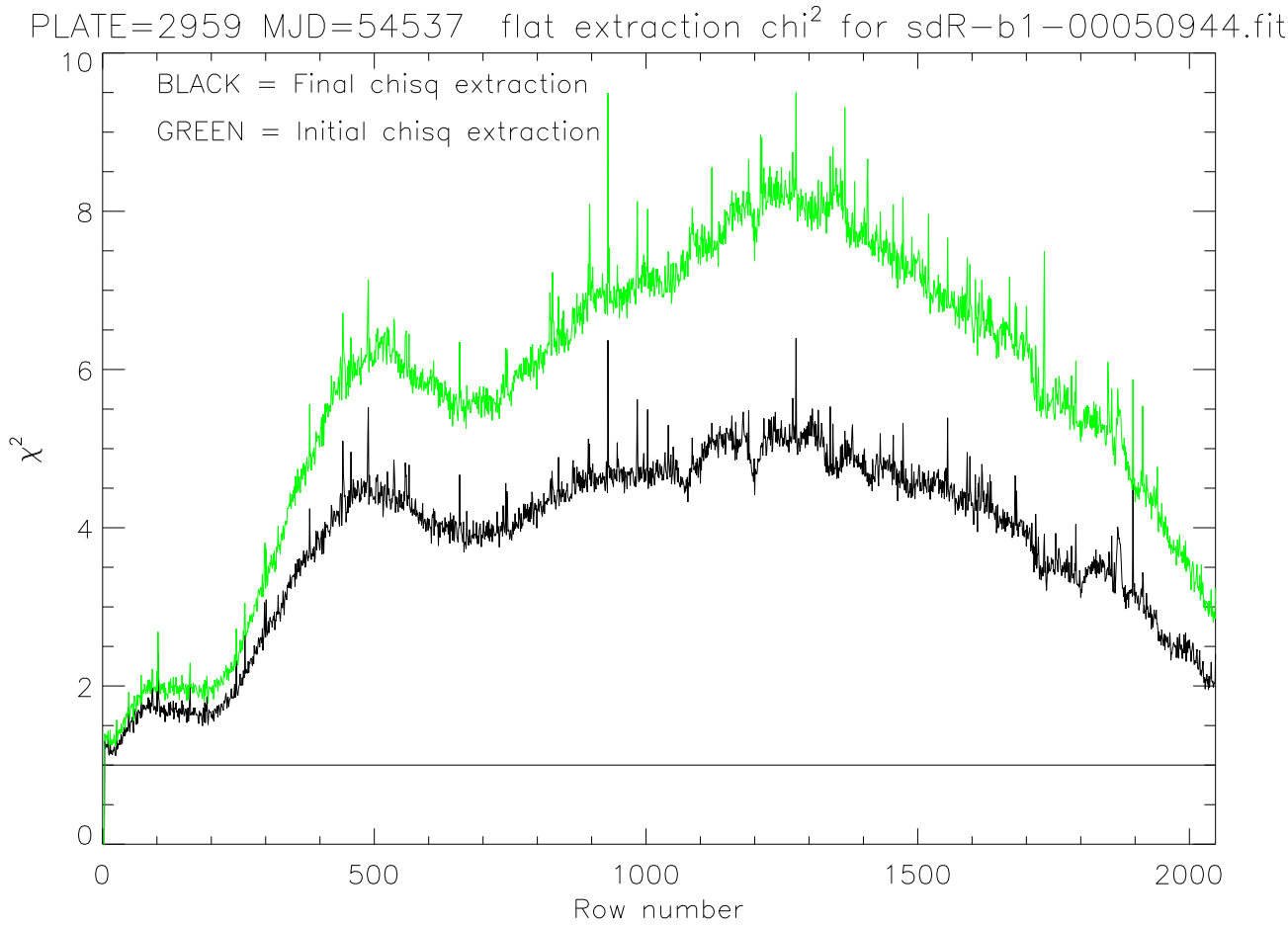

PLATE=2959 MJD=54537 Superflat sdR-b1-00050933.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

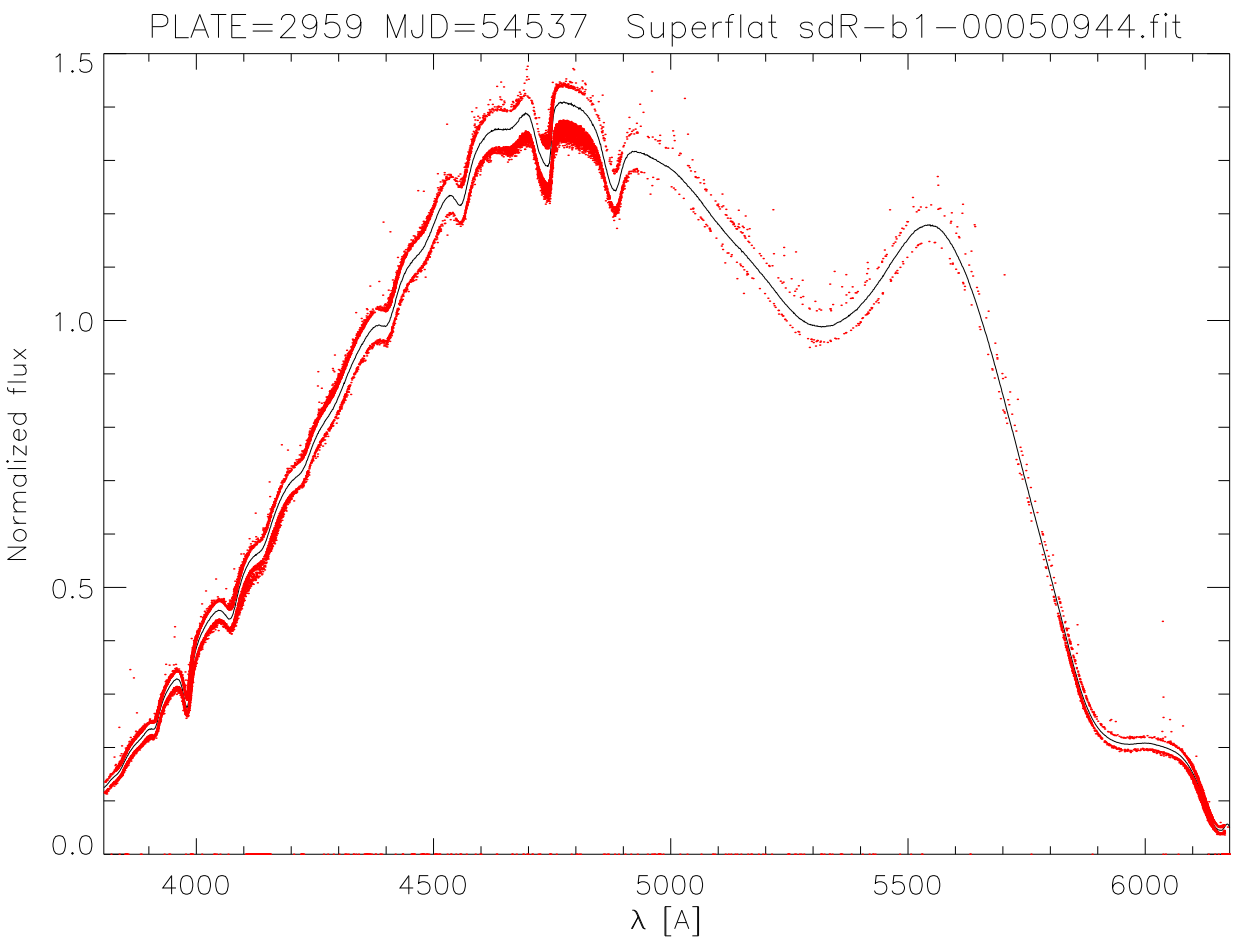

PLATE=2959 MJD=54537 flat extraction chi^2 for sdR−b1−00050935.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

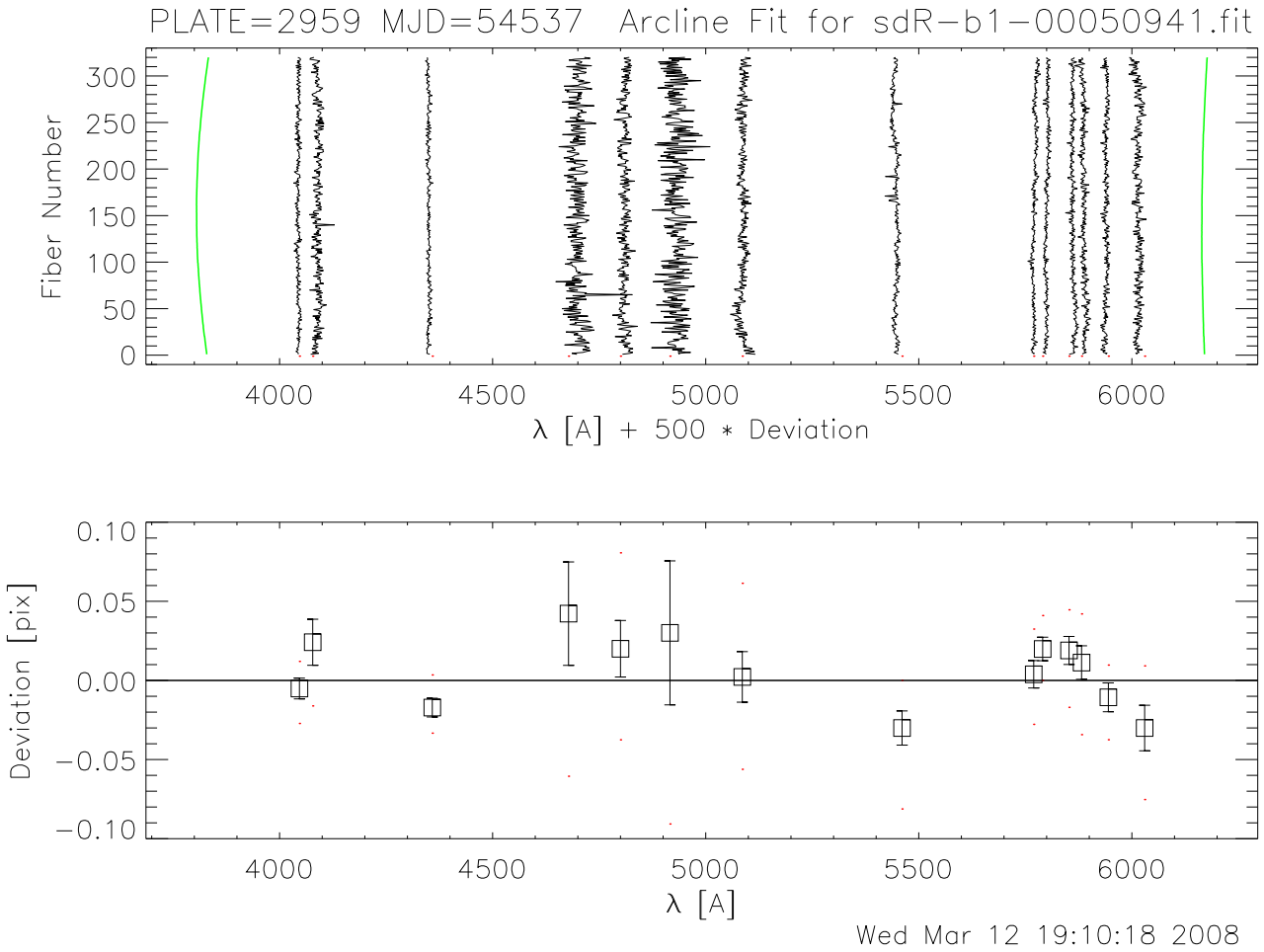

PLATE=2959 MJD=54537 Superflat sdR-b1-00050935.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

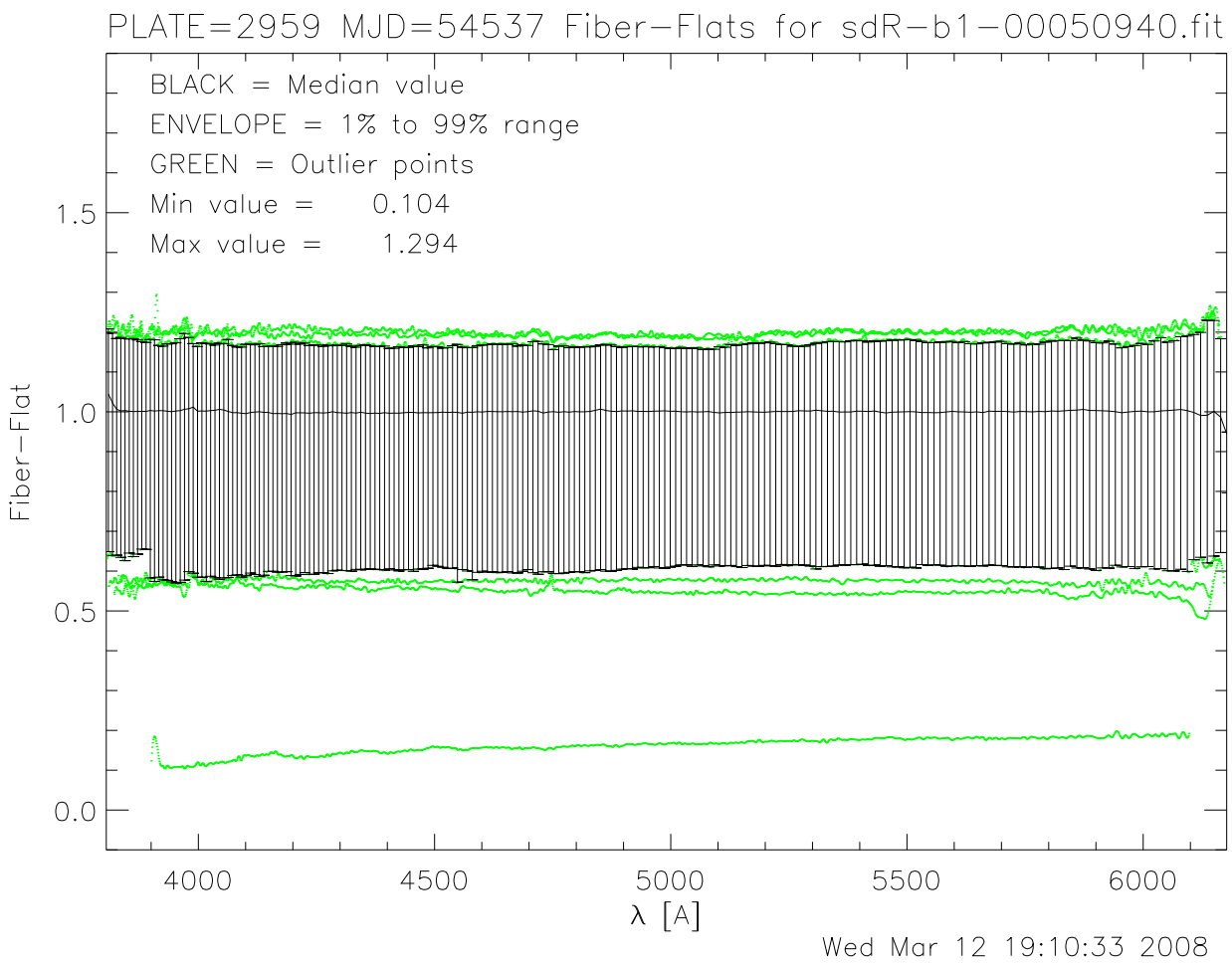

PLATE=2959 MJD=54537 flat extraction chi^2 for sdR−b1−00050940.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

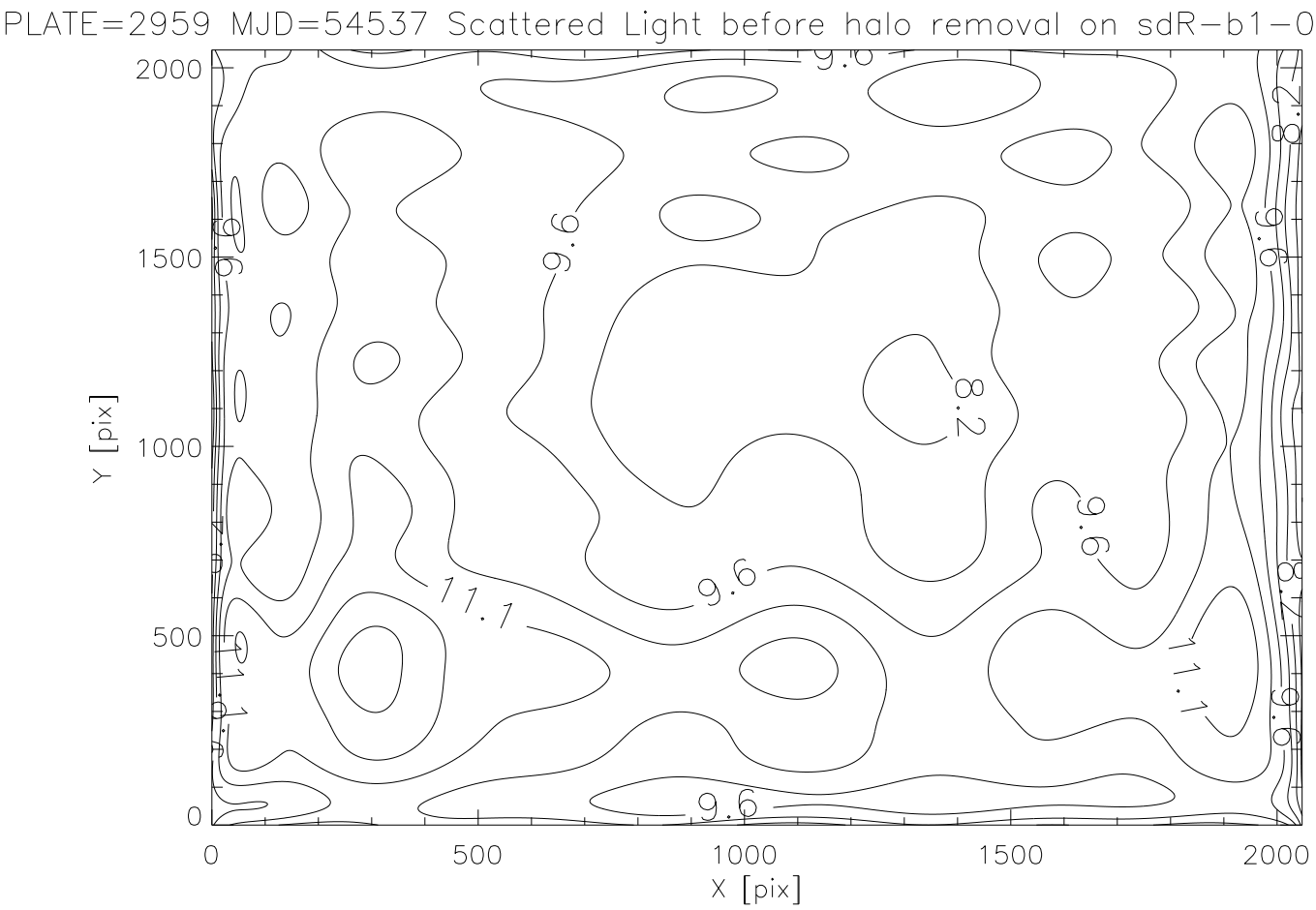

PLATE=2959 MJD=54537 Superflat sdR-b1-00050940.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

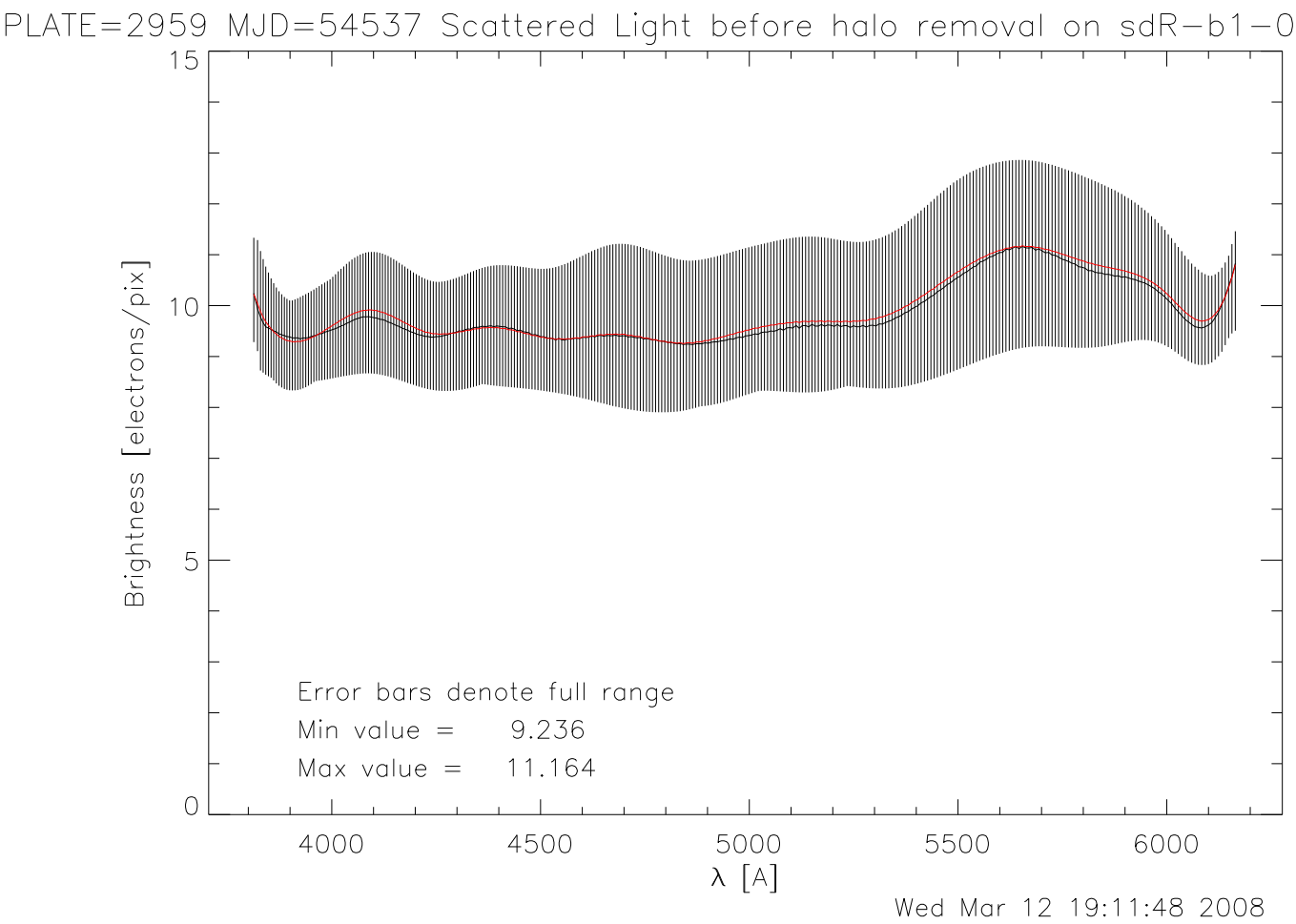

PLATE=2959 MJD=54537 flat extraction chi^2 for sdR−b1−00050944.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

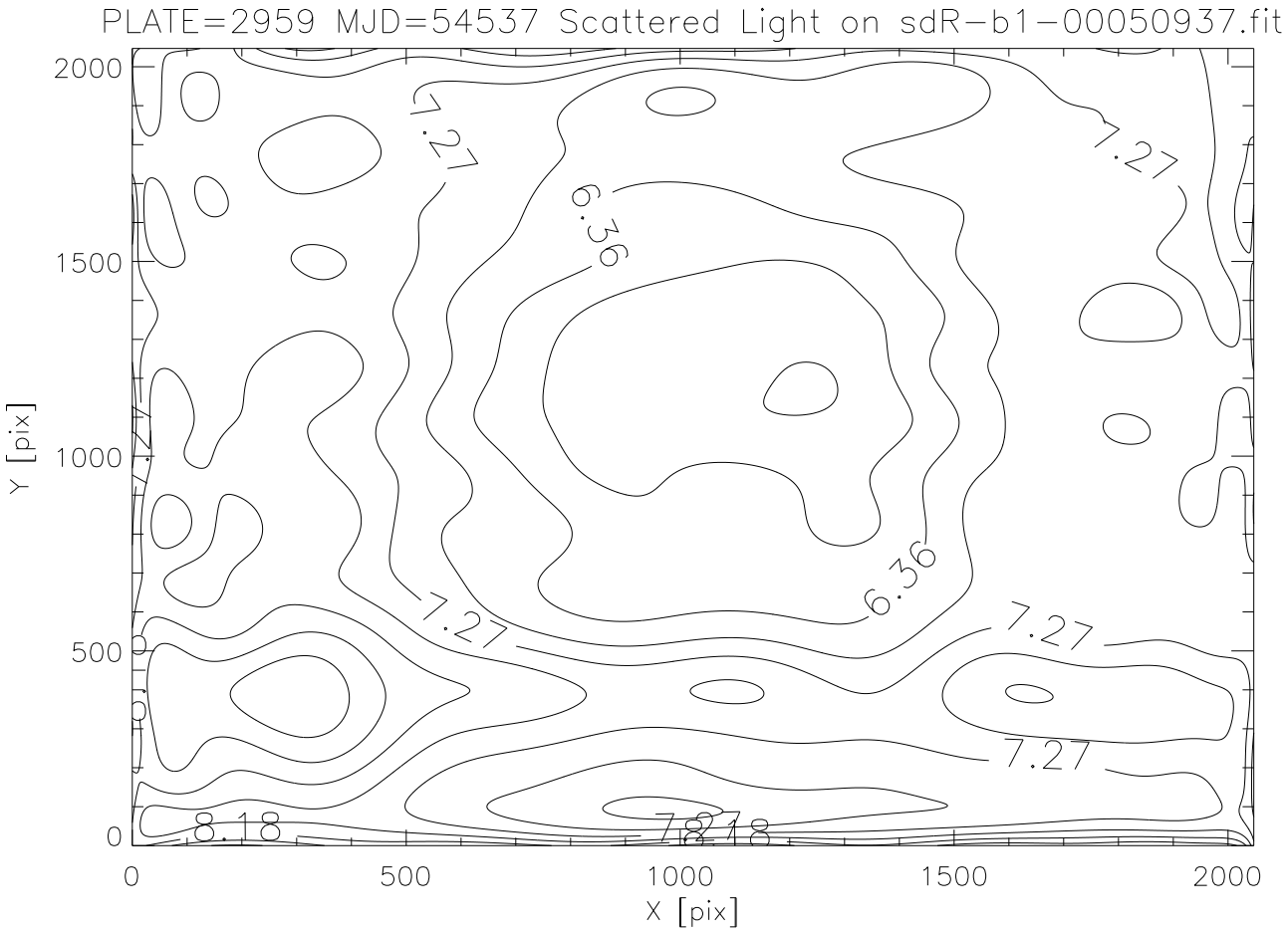

PLATE=2959 MJD=54537 Superflat sdR-b1-00050944.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

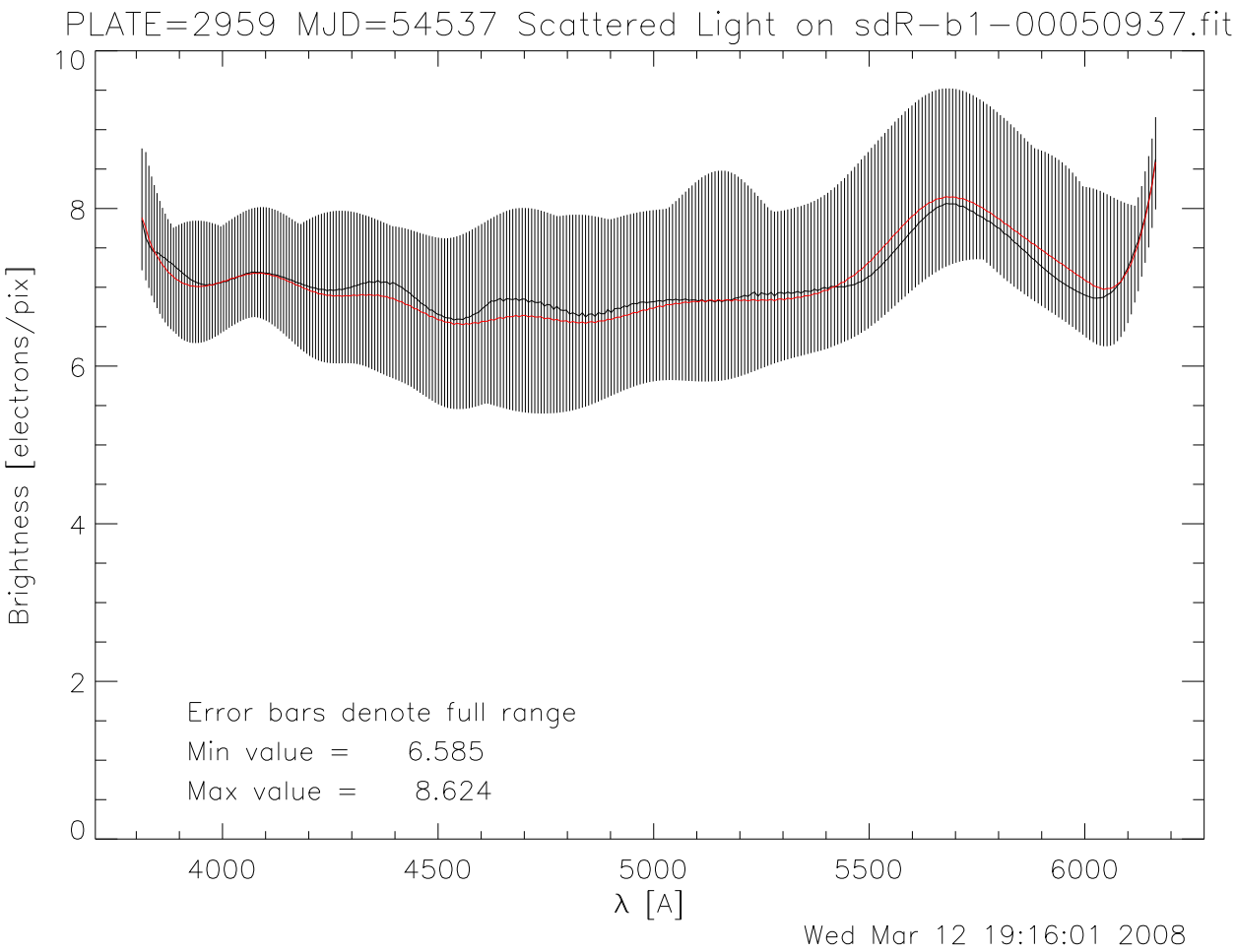

PLATE=2959 MJD=54537 Arcline Fit for sdR-b1-00050941.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 19:10:18 2008

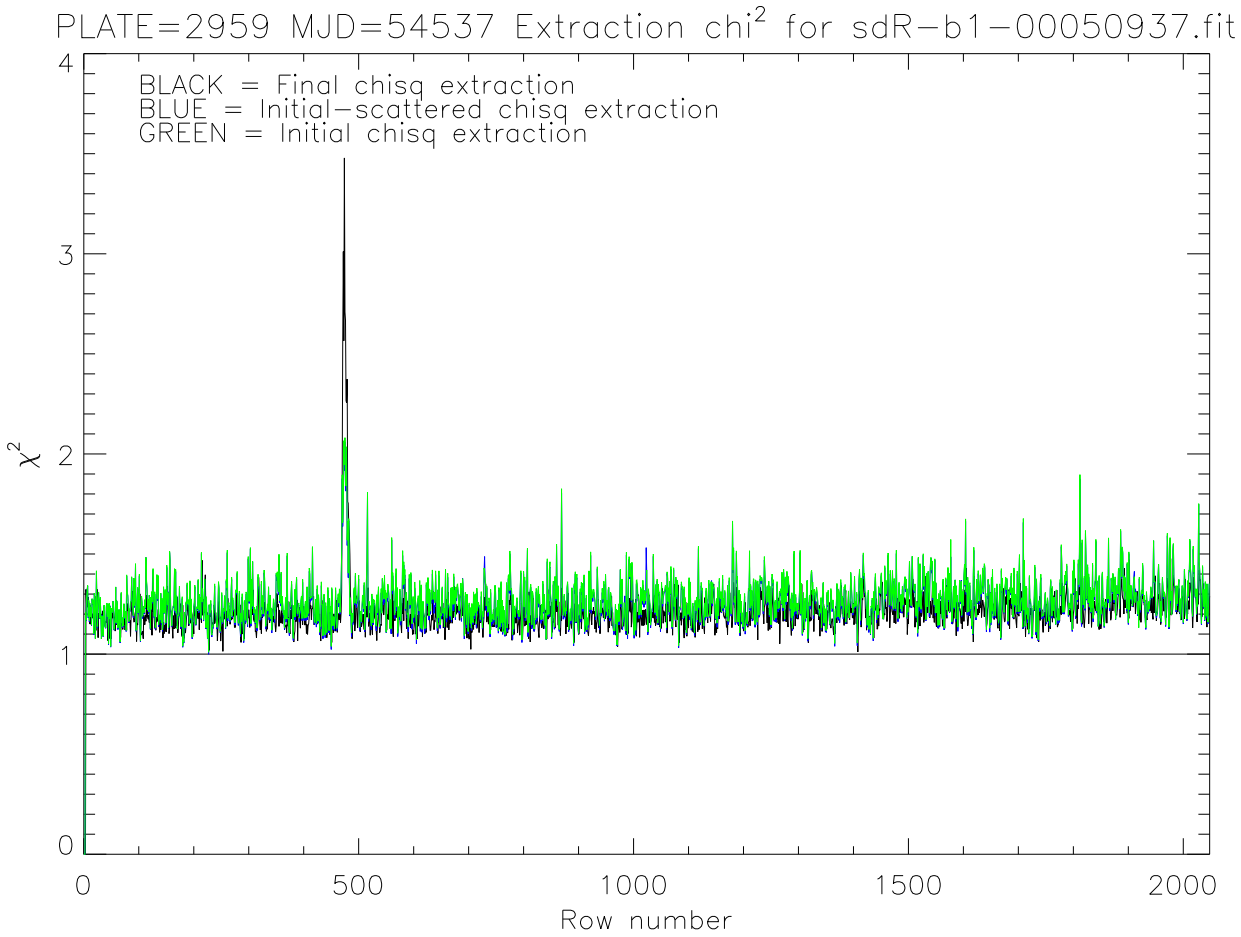

PLATE=2959 MJD=54537 Fiber−Flats for sdR−b1−00050940.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.104
Max value = 1.294
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 19:10:33 2008

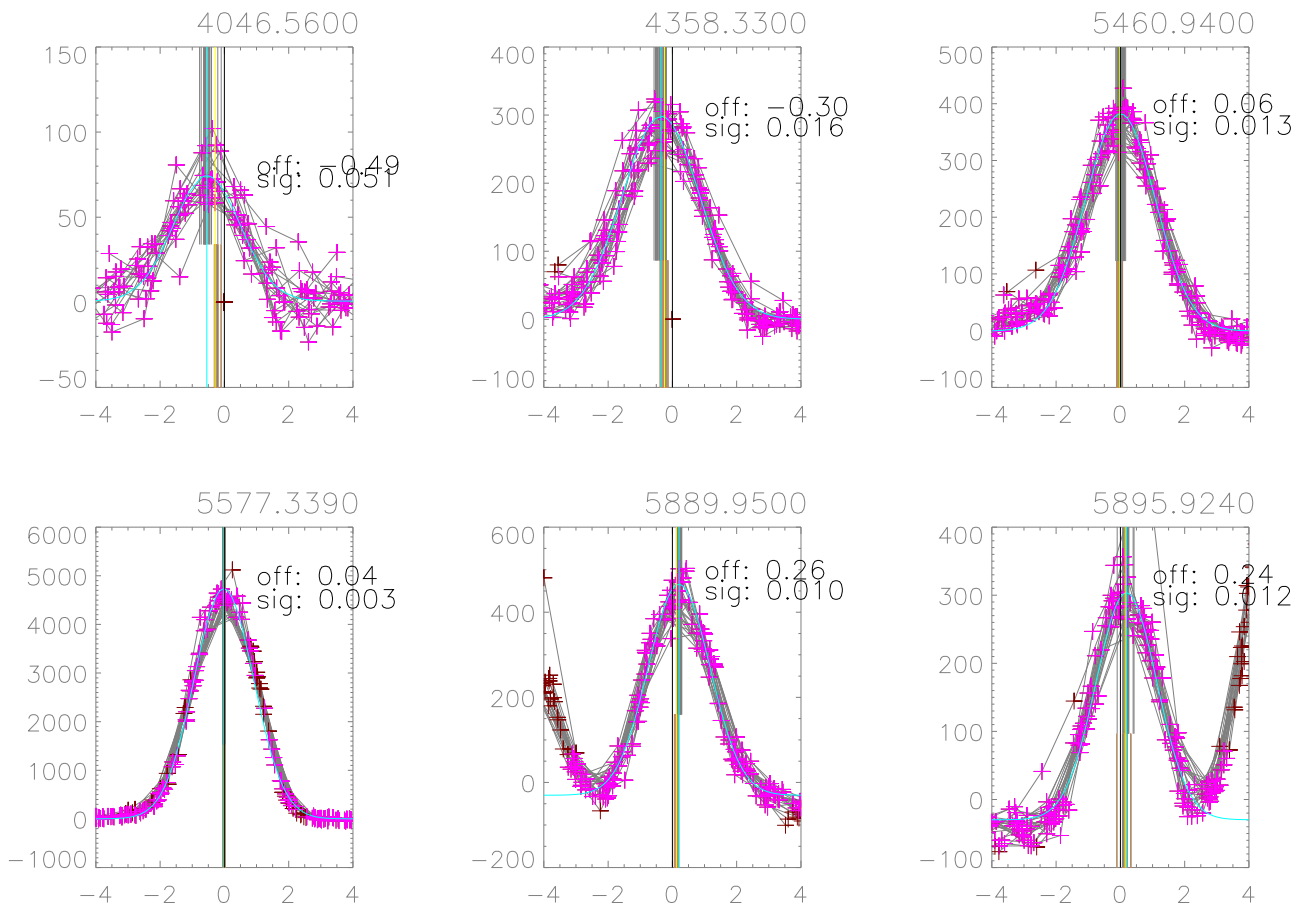

PLATE=2959 MJD=54537 Scattered Light before halo removal on sdR-b1-00050937.f
Y [pix]
X [pix]
0
500
1000
1500
2000
9.6
8.2
11.1

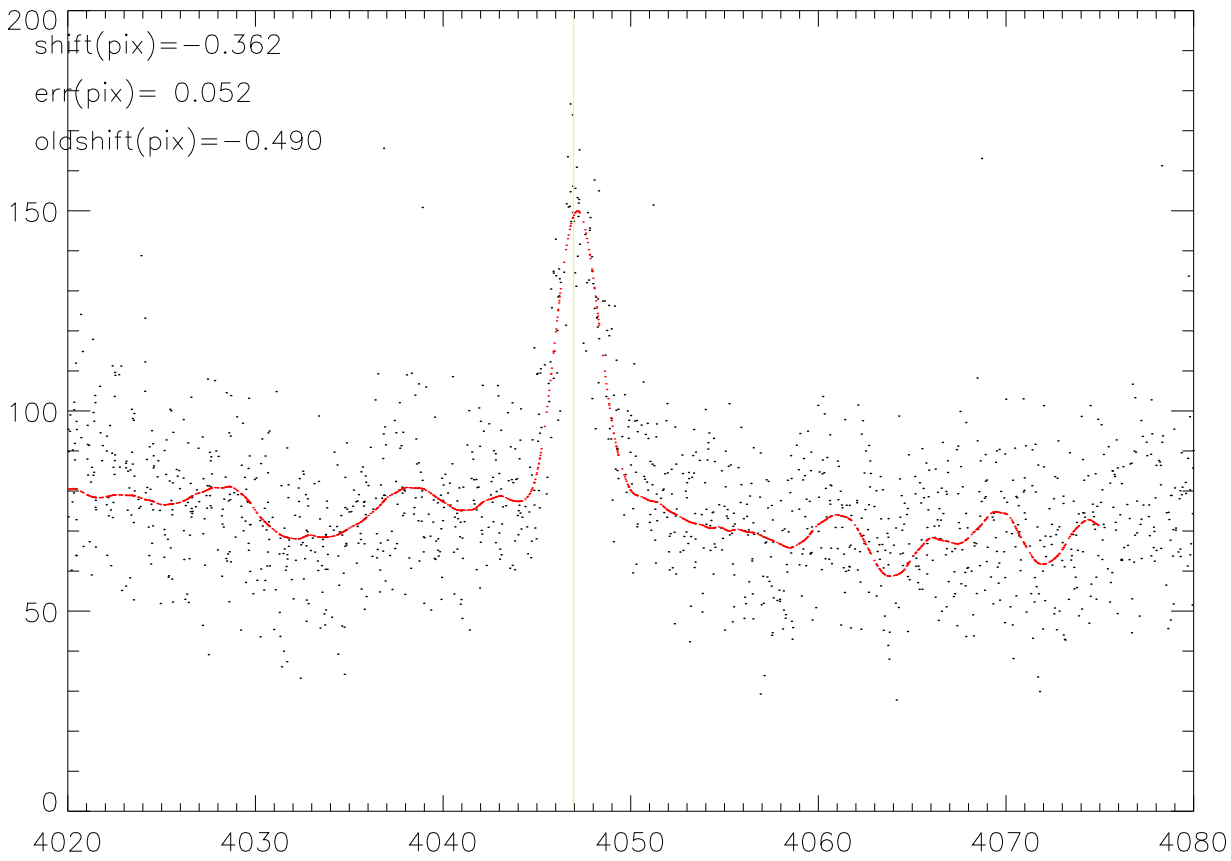

PLATE=2959 MJD=54537 Scattered Light before halo removal on sdR-b1-00050937.f
Brightness [electrons/pix]
15
10
5
0
Error bars denote full range
Min value = 9.236
Max value = 11.164
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 19:11:48 2008

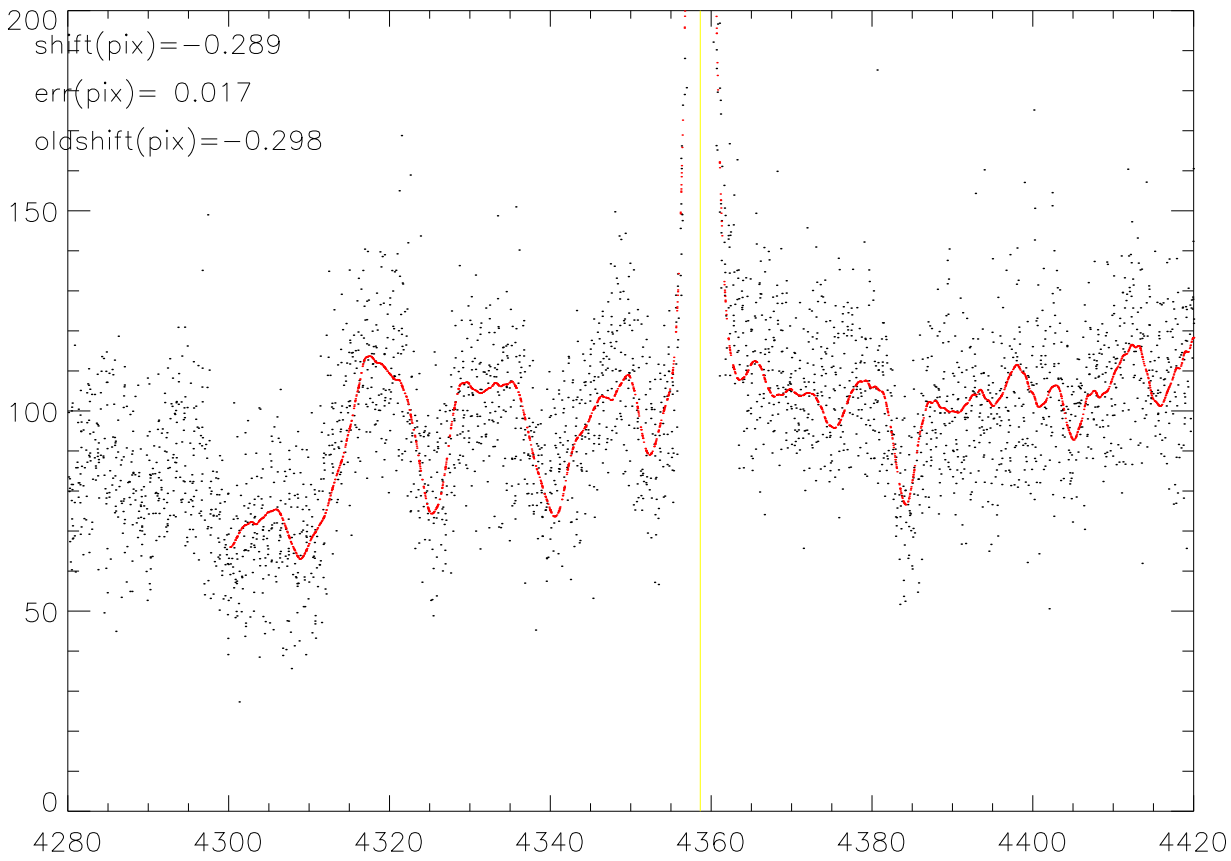

PLATE=2959 MJD=54537 Scattered Light on sdR-b1-00050937.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
7.27
6.36
8.18

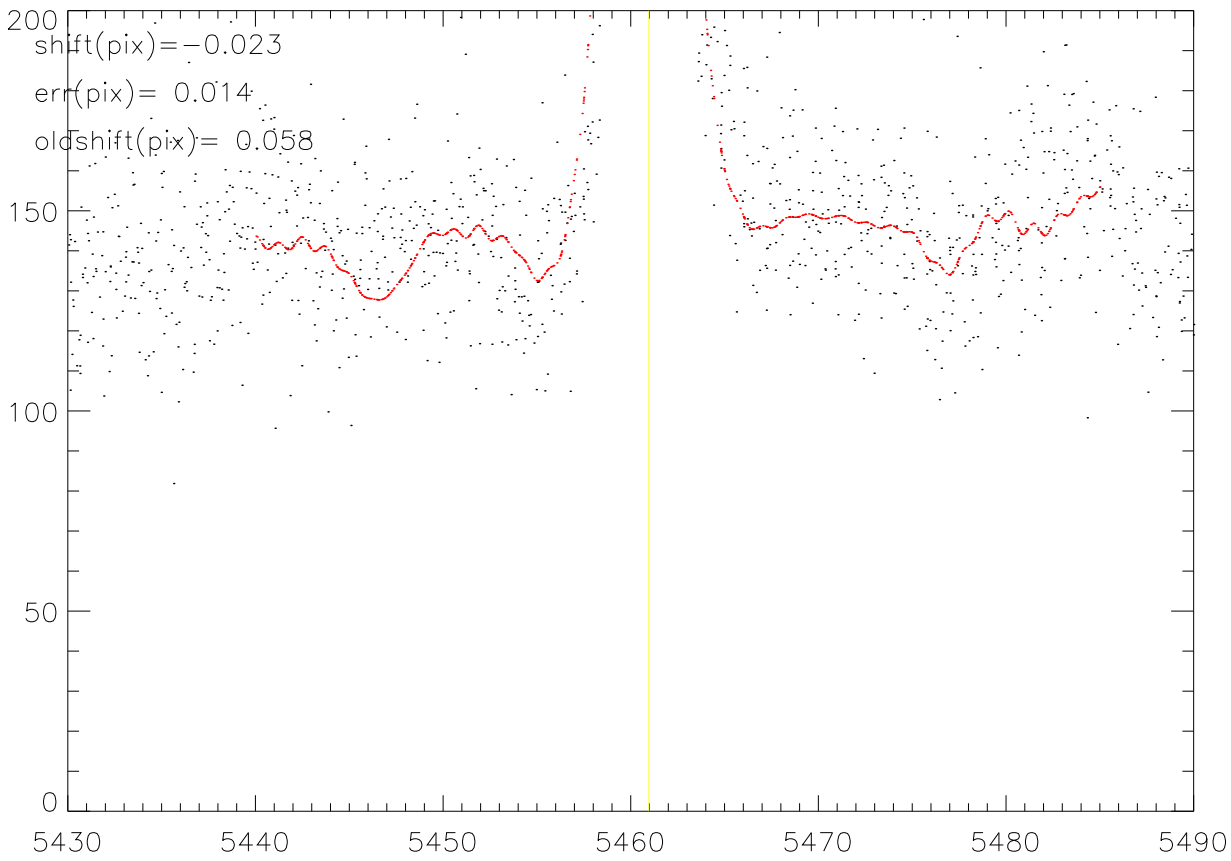

PLATE=2959 MJD=54537 Scattered Light on sdR-b1-00050937.fit
Brightness [electrons/pix]
10
8
6
4
2
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 6.585
Max value = 8.624
Wed Mar 12 19:16:01 2008

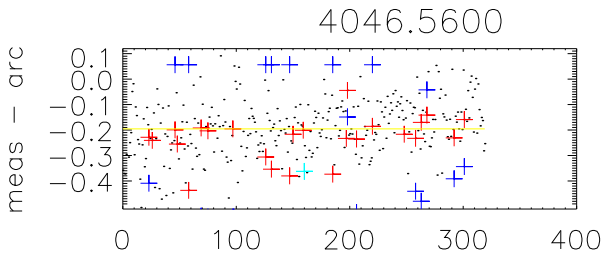

PLATE=2959 MJD=54537 Extraction chi^2 for sdR-b1-00050937.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

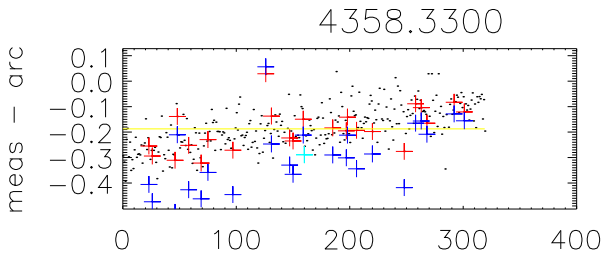

4046.5600
off: −0.49
sig: 0.051
4358.3300
off: −0.30
sig: 0.016
5460.9400
off: 0.06
sig: 0.013
5577.3390
off: 0.04
sig: 0.003
5889.9500
off: 0.26
sig: 0.010
5895.9240
off: 0.24
sig: 0.012

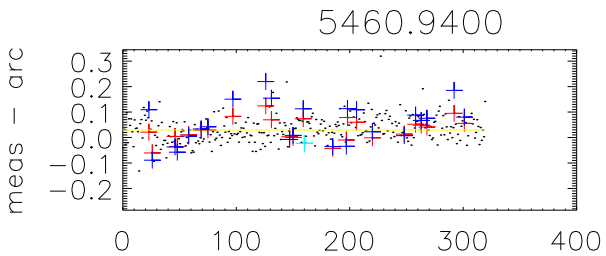

shift(pix)=−0.362
err(pix)= 0.052
oldshift(pix)=−0.490
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

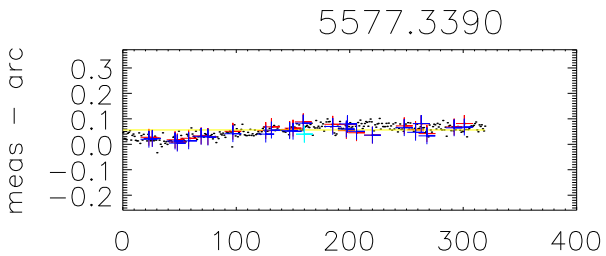

shift(pix)=−0.289
err(pix)= 0.017
oldshift(pix)=−0.298
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

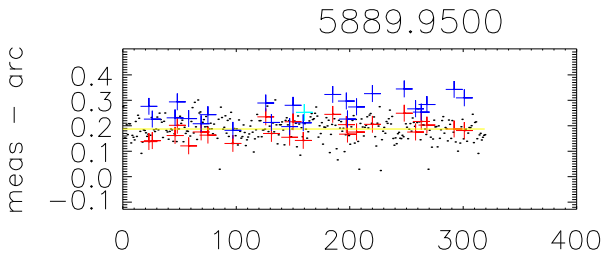

shift(pix)=−0.023
err(pix)= 0.014
oldshift(pix)= 0.058
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

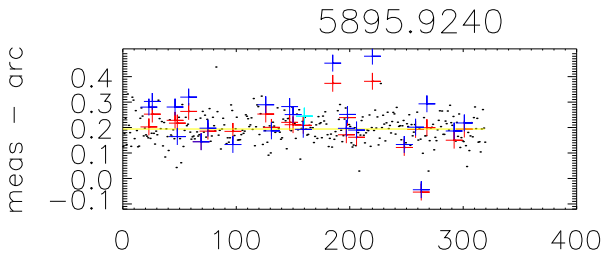

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

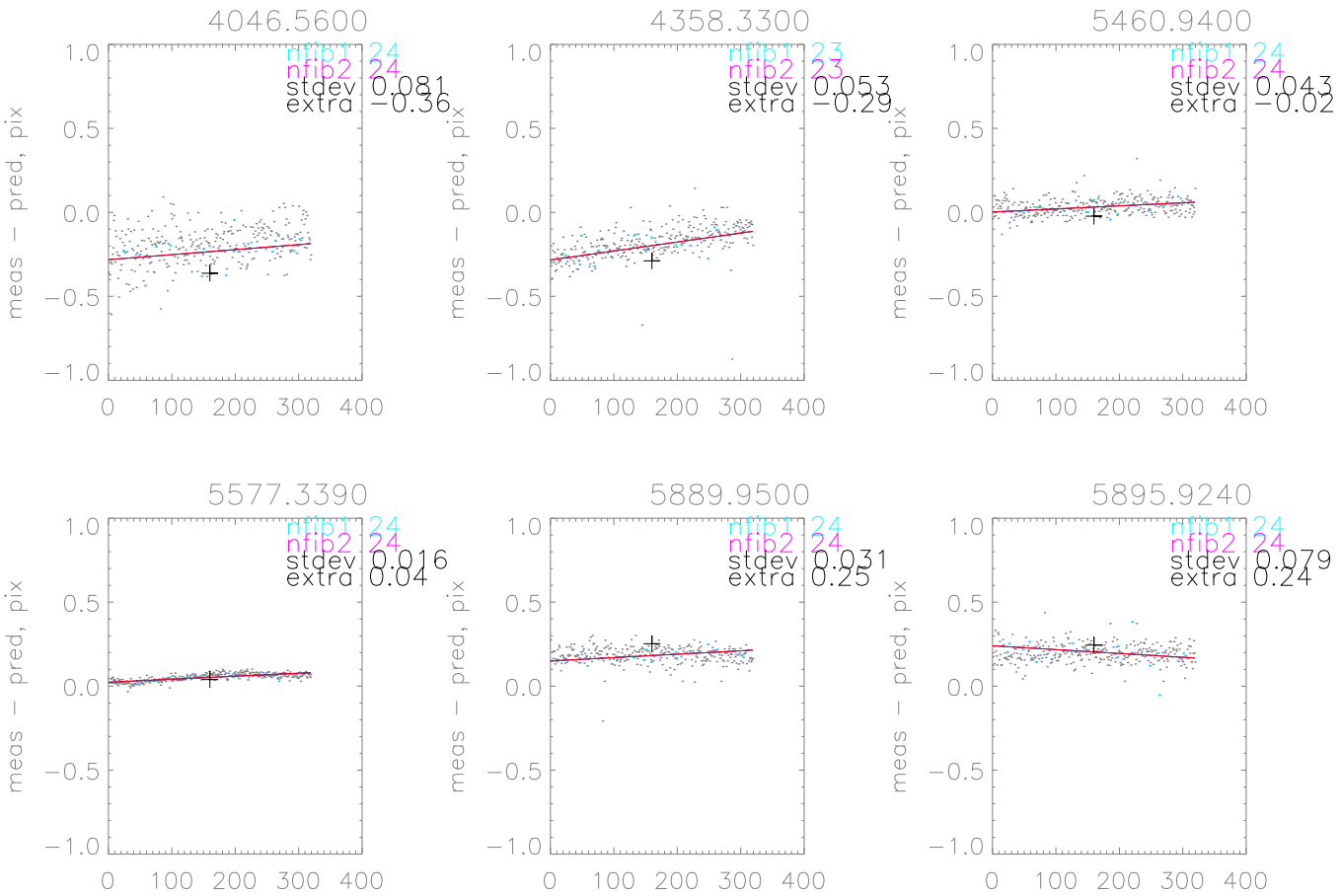

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

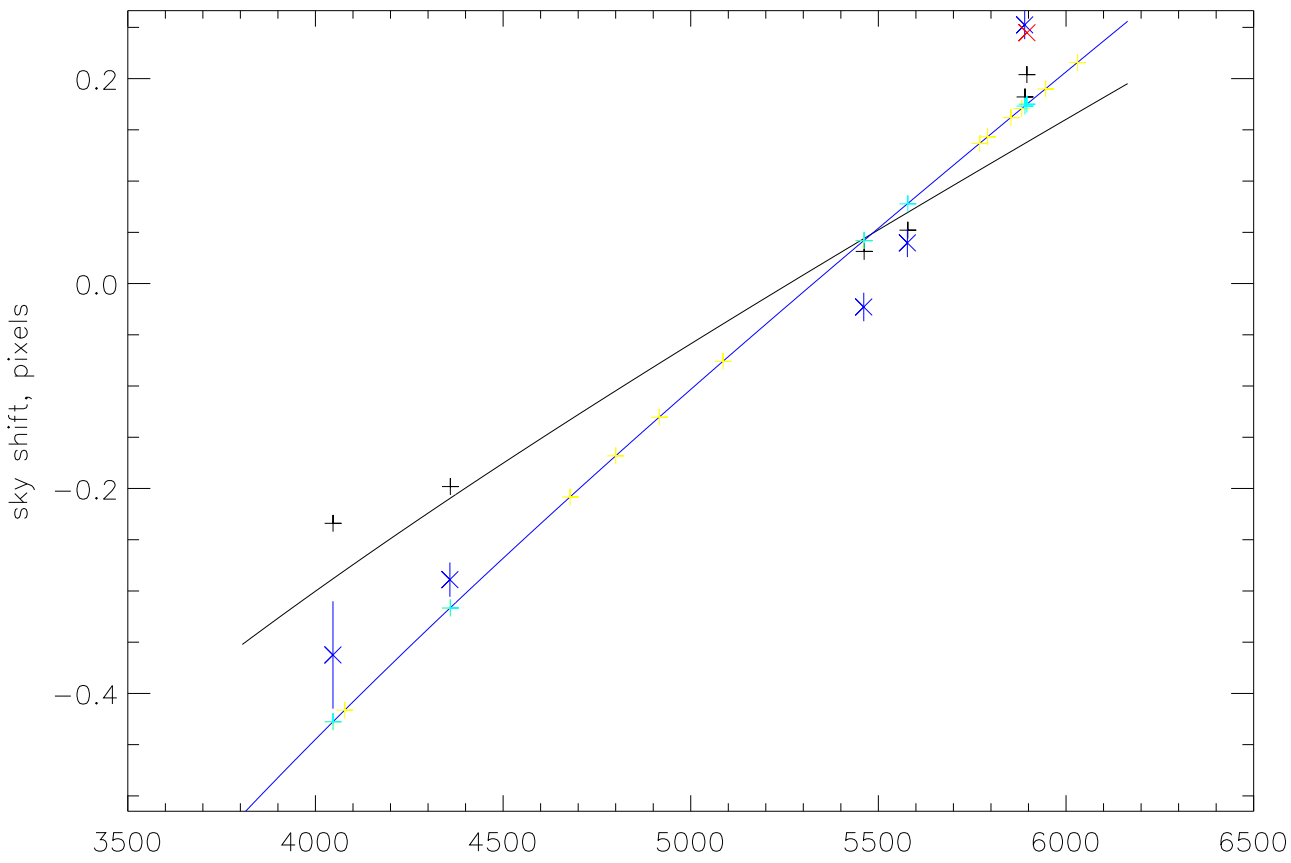

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

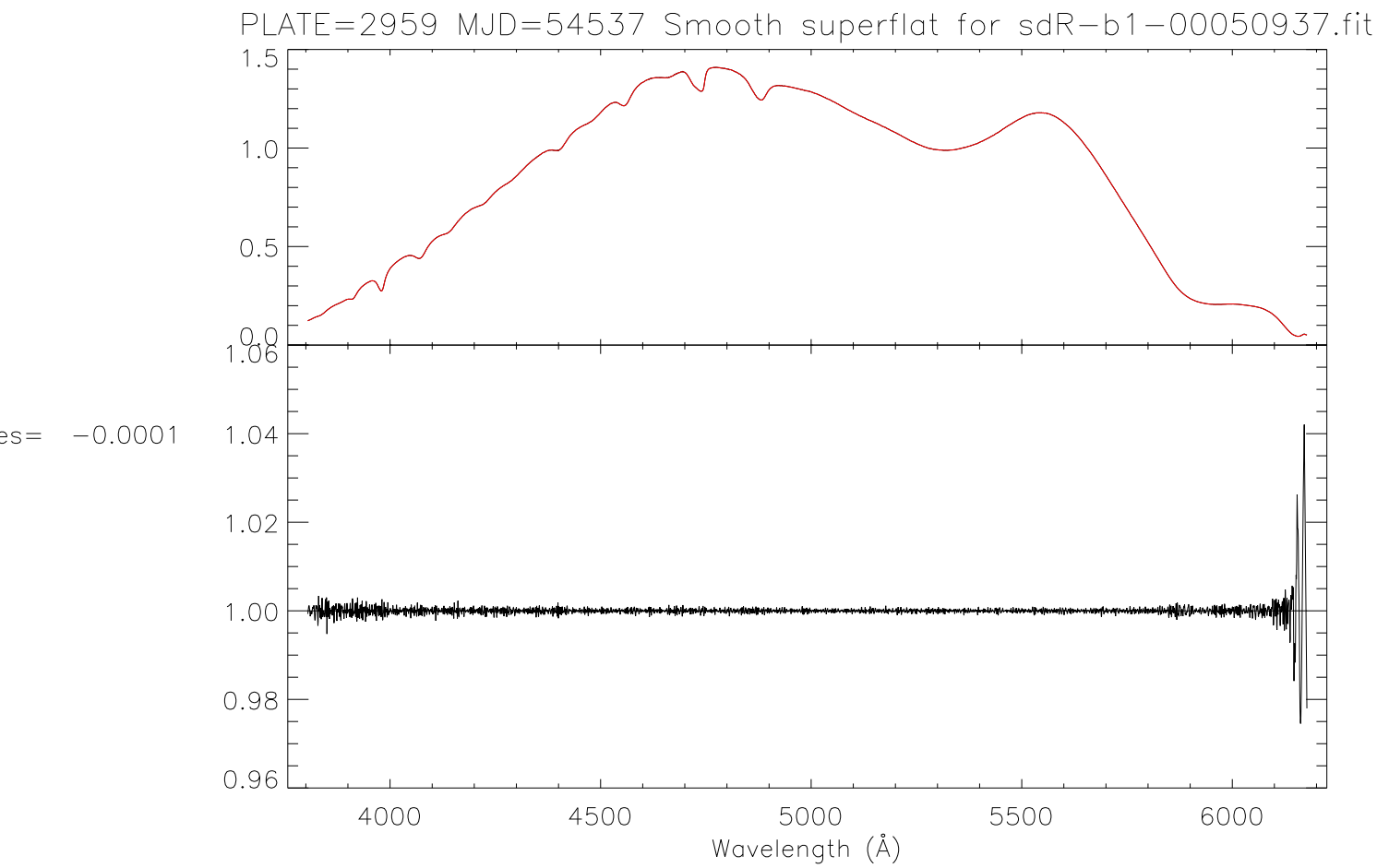

5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

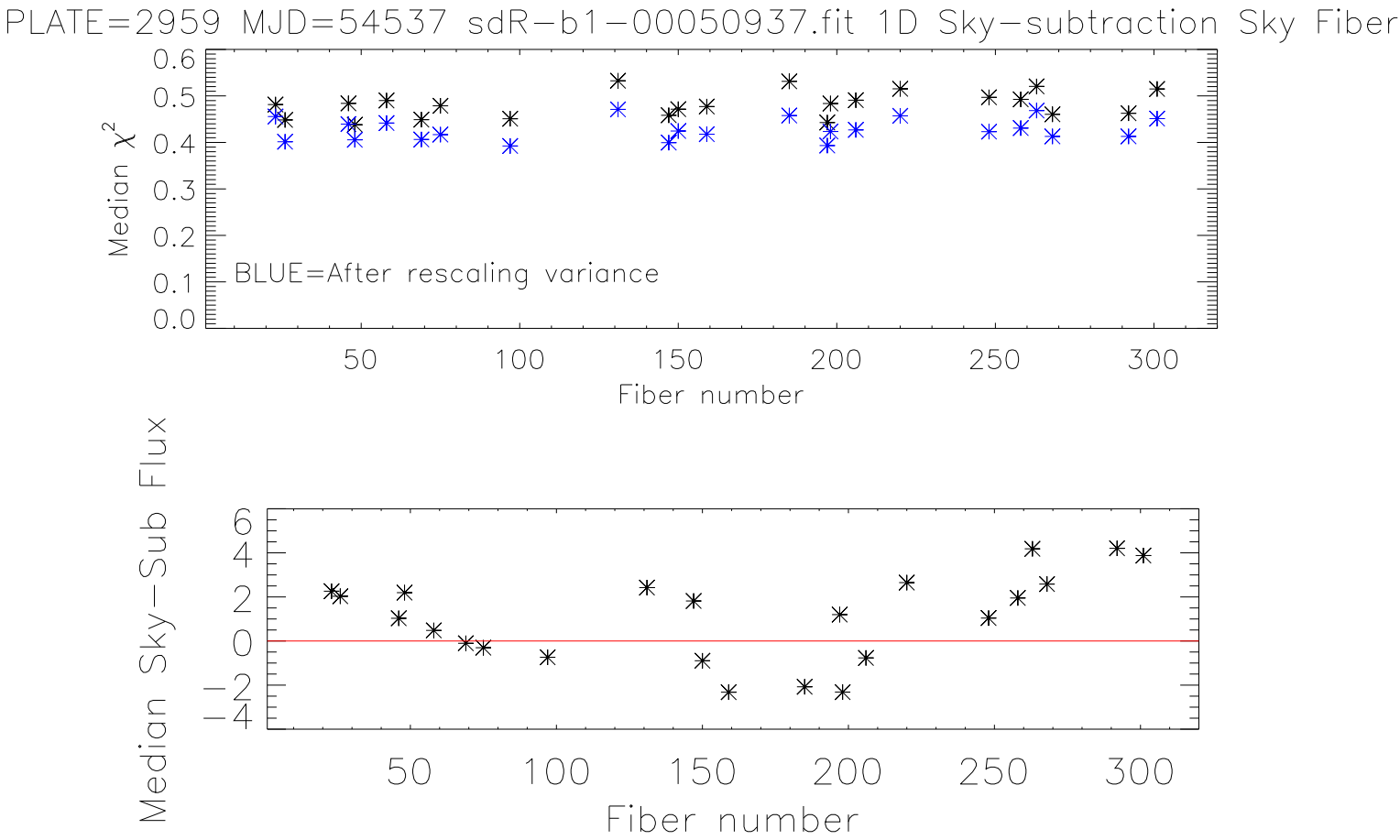

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

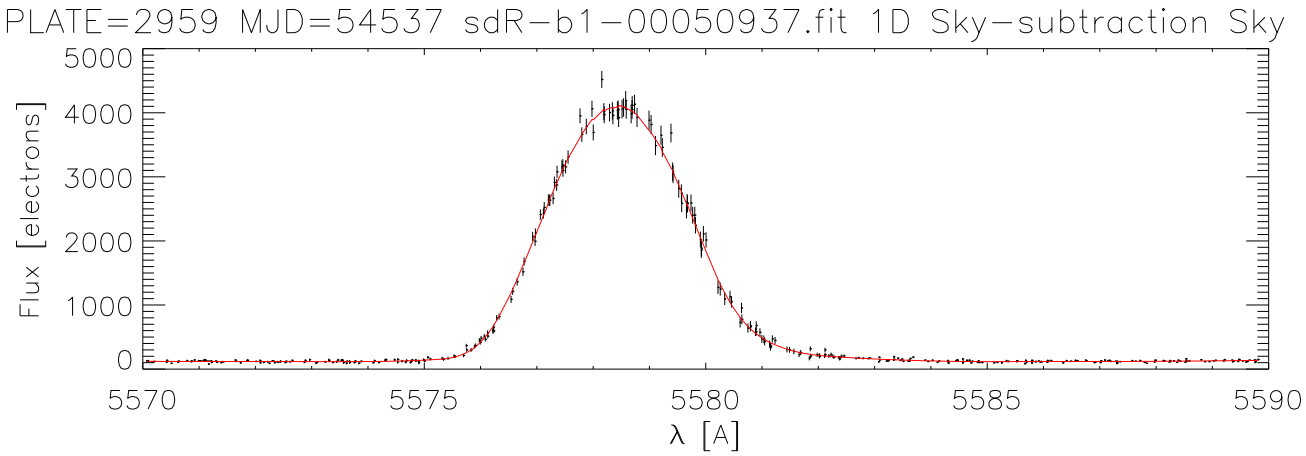

4046.5600
nfib1 24
nfib2 24
stdev 0.081
extra −0.36
4358.3300
nfib1 23
nfib2 23
stdev 0.053
extra −0.29
5460.9400
nfib1 24
nfib2 24
stdev 0.043
extra −0.02
5577.3390
nfib1 24
nfib2 24
stdev 0.016
extra 0.04
5889.9500
nfib1 24
nfib2 24
stdev 0.031
extra 0.25
5895.9240
nfib1 24
nfib2 24
stdev 0.079
extra 0.24
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

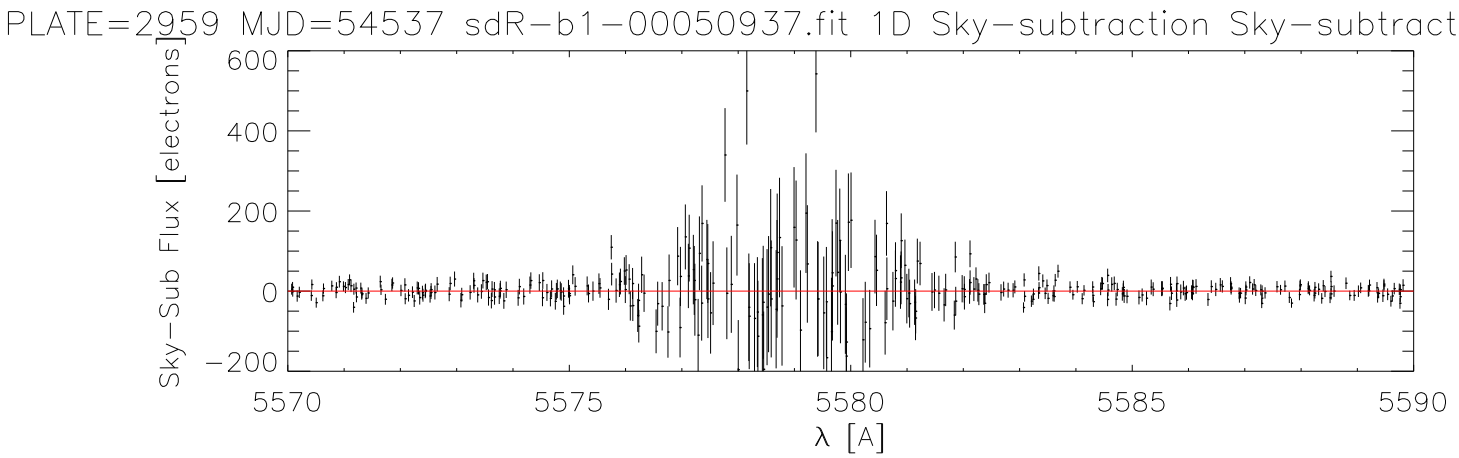

sky shift, pixels
0.2
0.0
−0.2
−0.4
3500
4000
4500
5000
5500
6000
6500

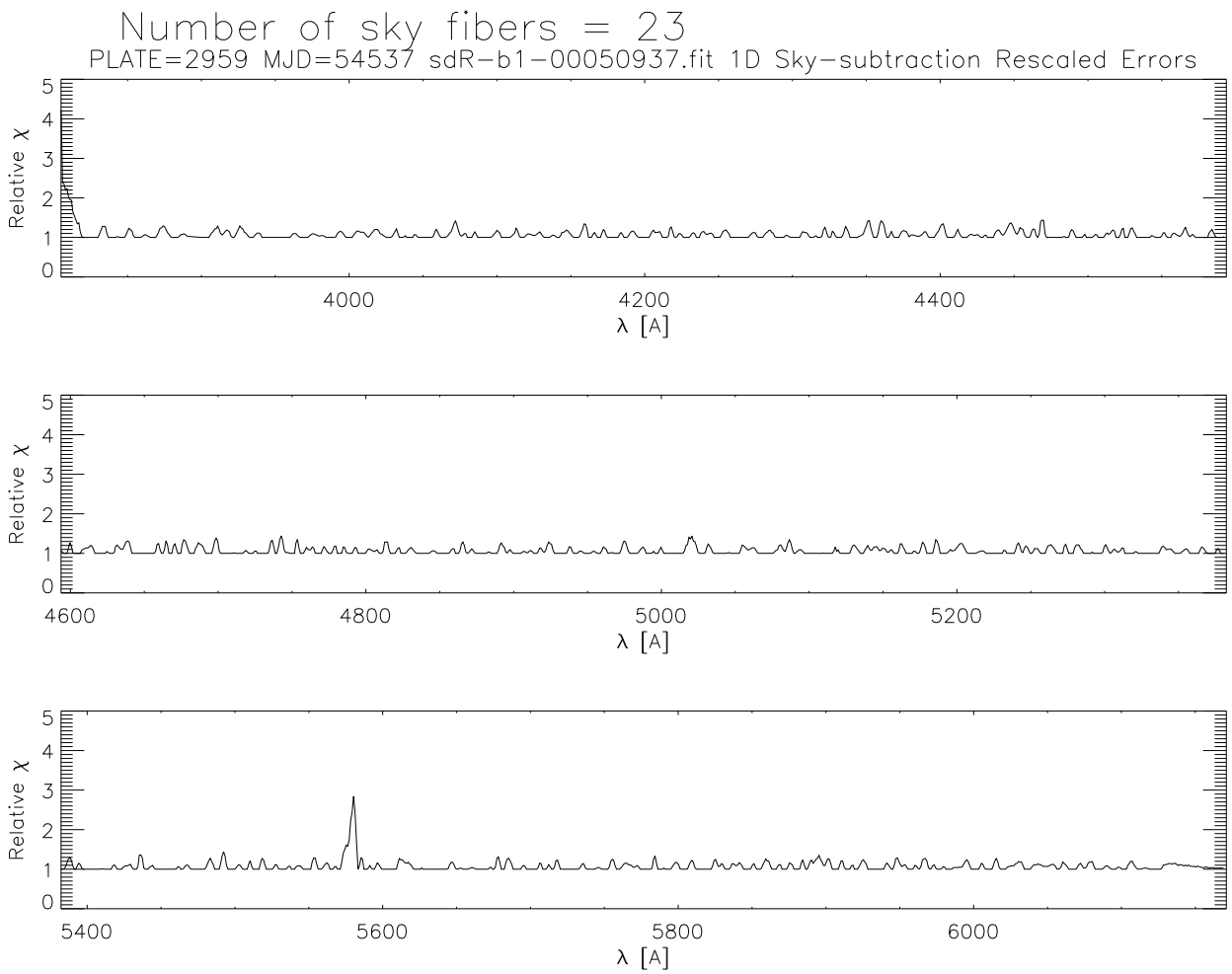

PLATE=2959 MJD=54537 Smooth superflat for sdR-b1-00050937.fit
1.5
1.0
0.5
0.0
1.06
1.04
1.02
1.00
0.98
0.96
4000
4500
5000
5500
6000
Wavelength (Å)

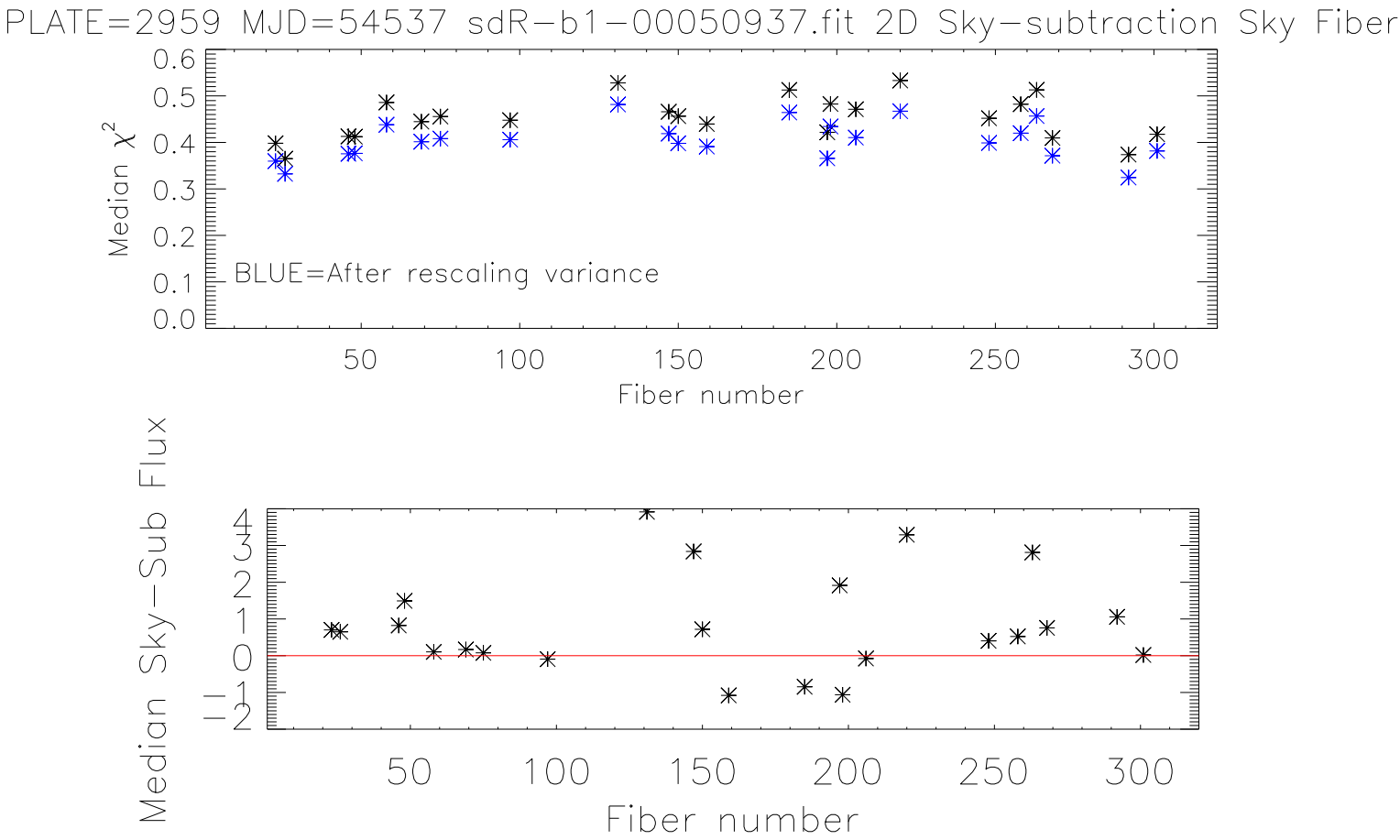
es= −0.0001

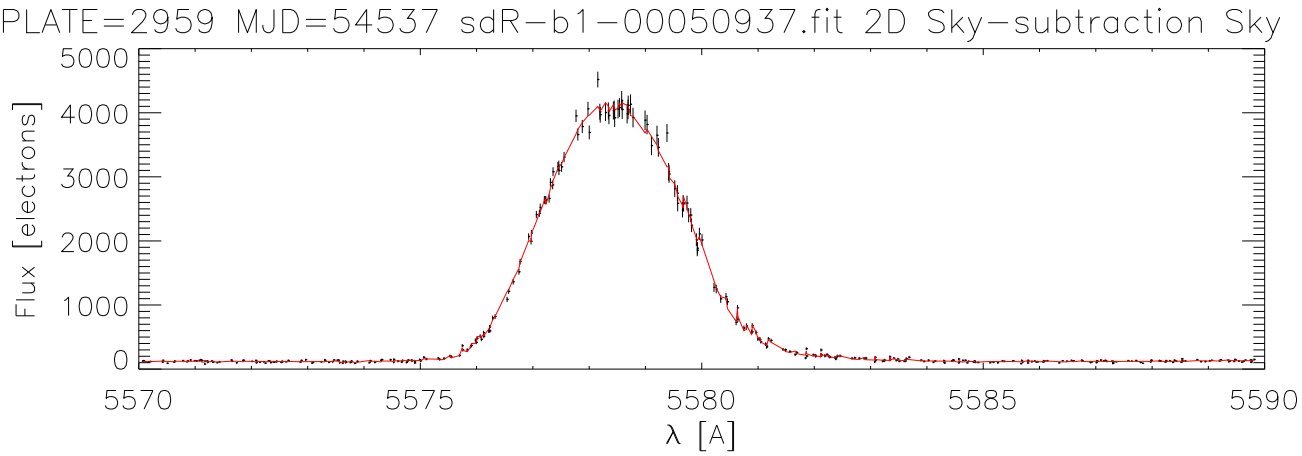

PLATE=2959 MJD=54537 sdR-b1-00050937.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

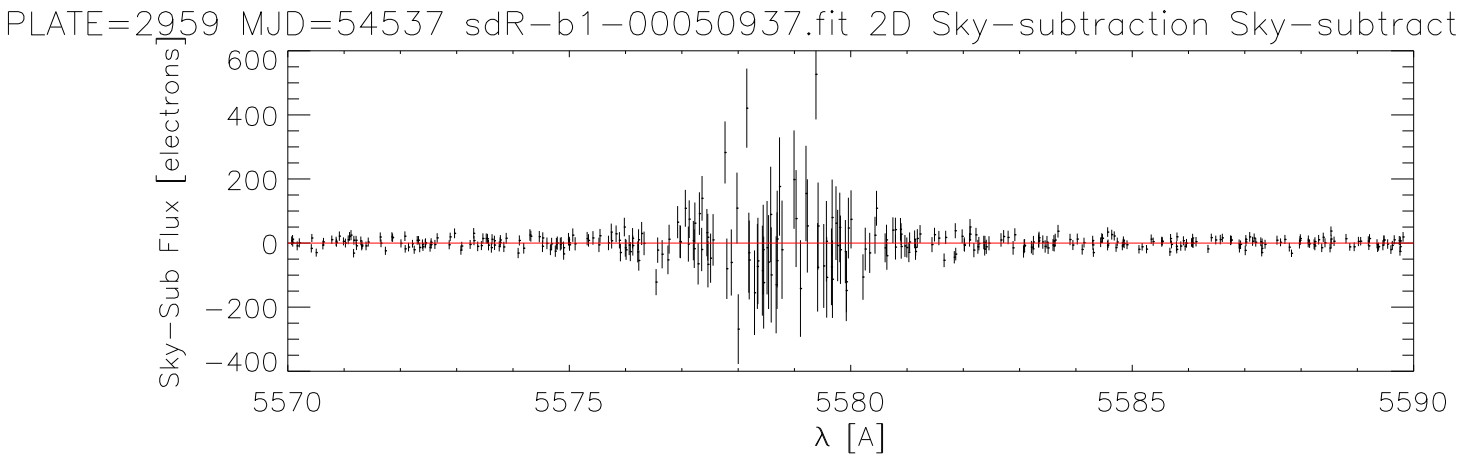

PLATE=2959 MJD=54537 sdR-b1-00050937.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

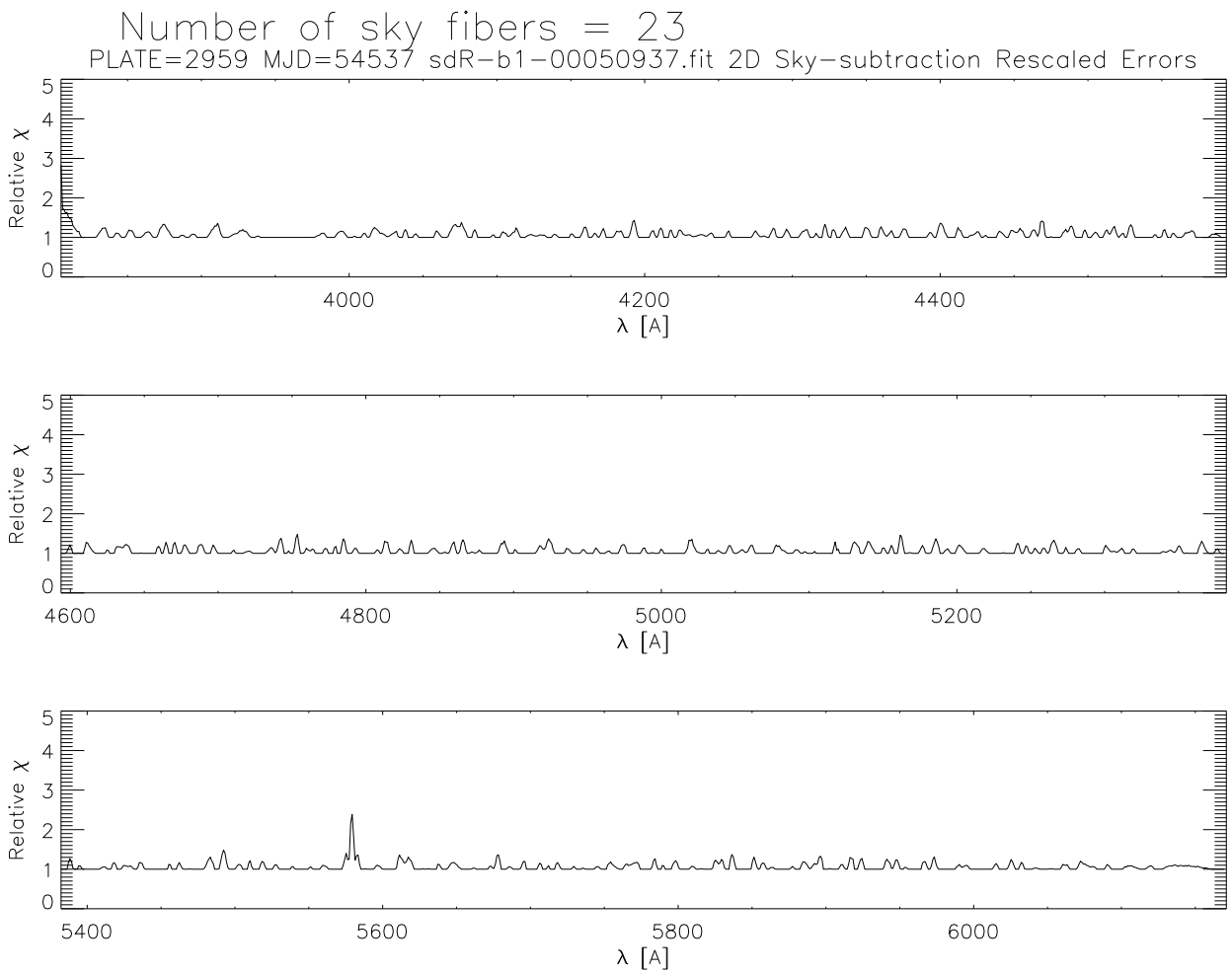

PLATE=2959 MJD=54537 sdR-b1-00050937.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
−200
5570
5575
5580
5585
5590
λ [A]

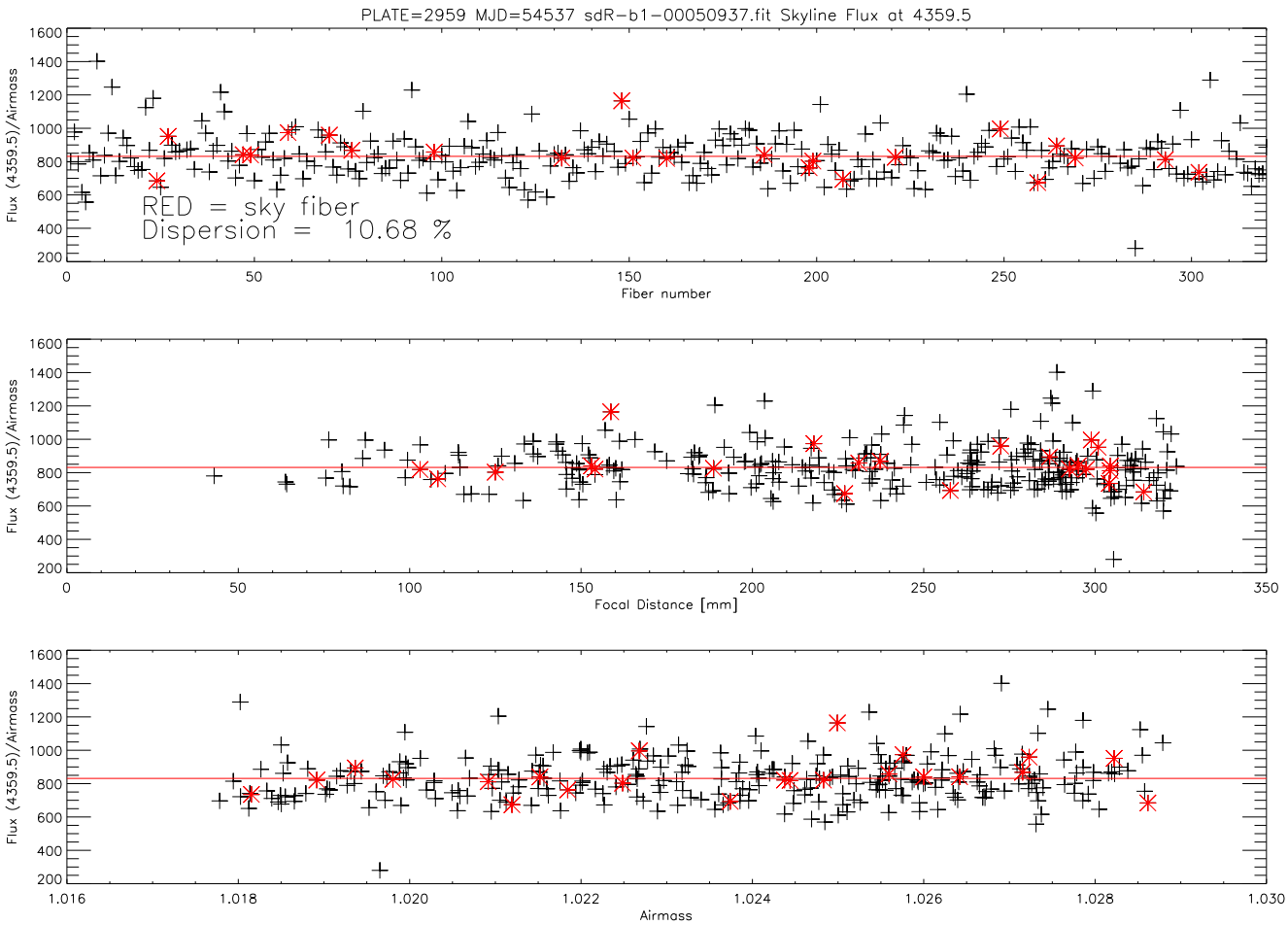

Number of sky fibers = 23
PLATE=2959 MJD=54537 sdR-b1-00050937.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

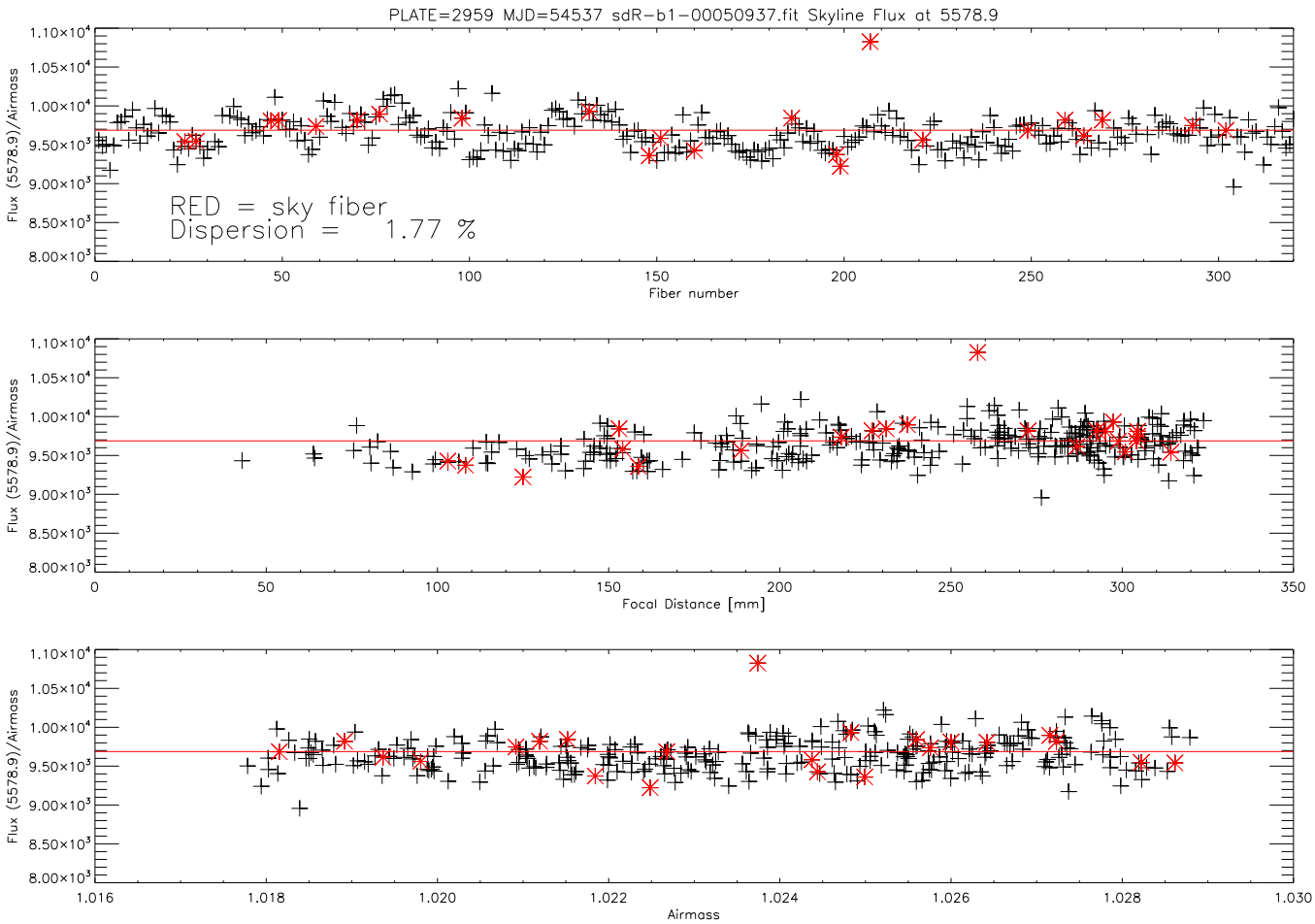

PLATE=2959 MJD=54537 sdR-b1-00050937.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

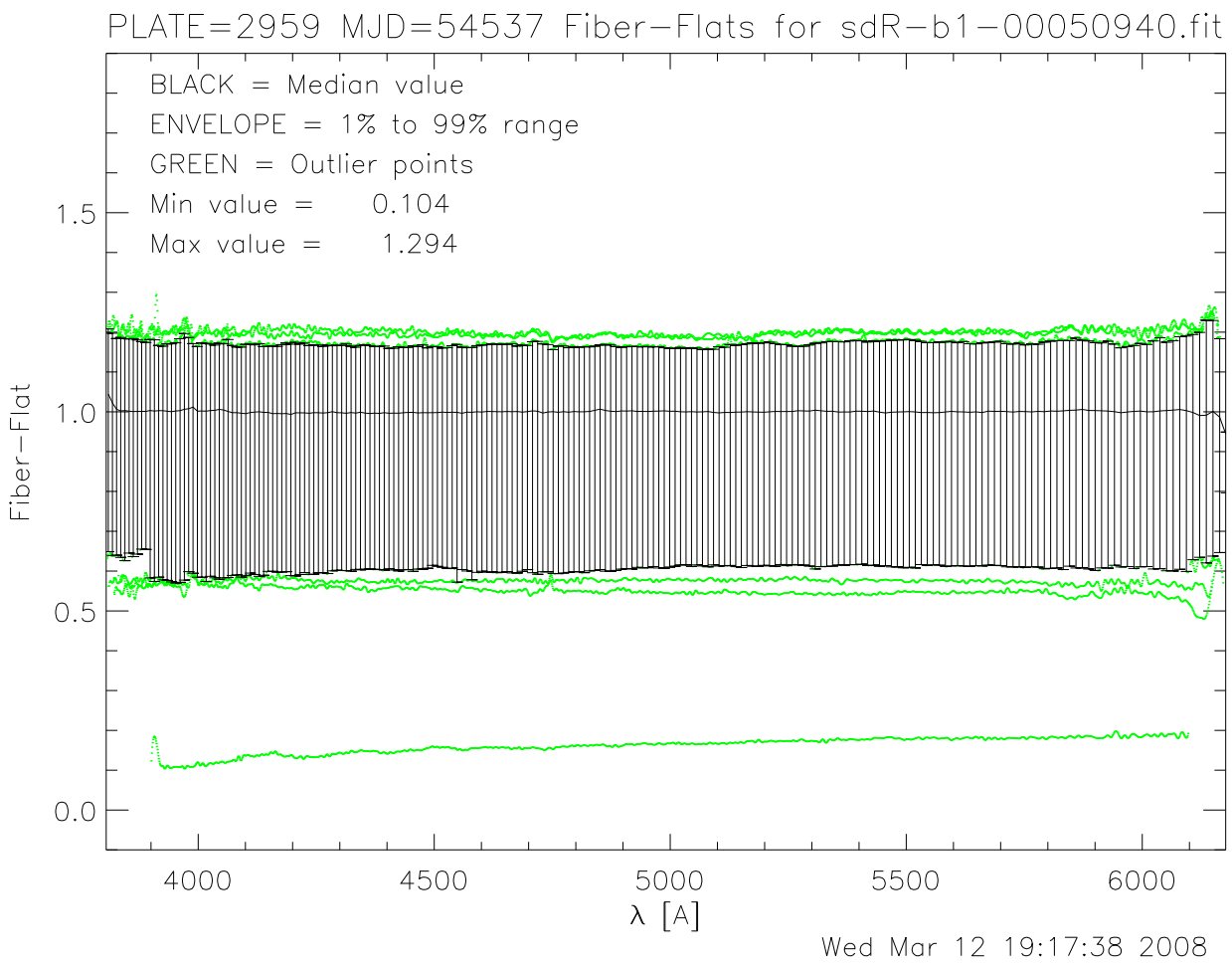

PLATE=2959 MJD=54537 sdR-b1-00050937.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

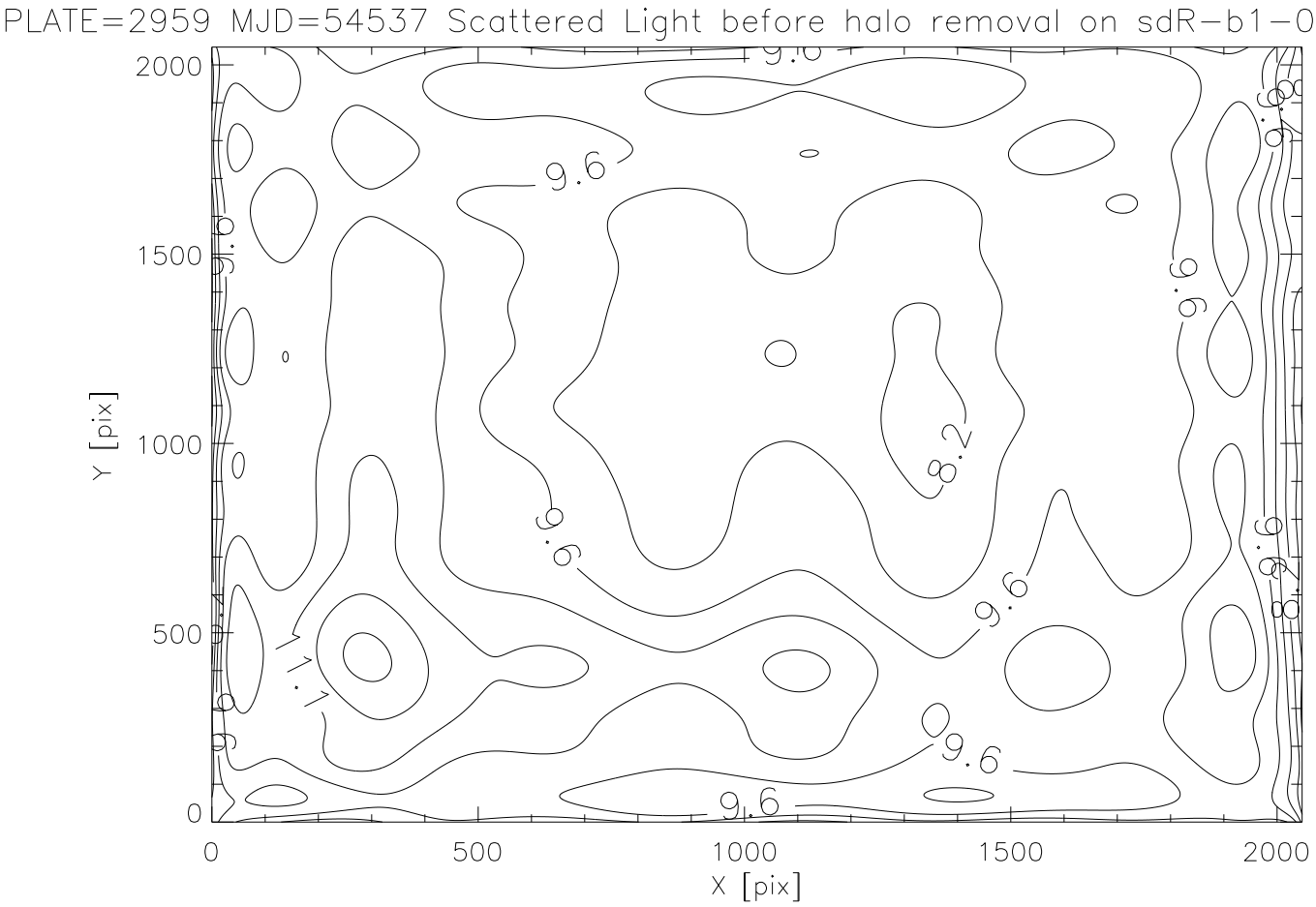

PLATE=2959 MJD=54537 sdR-b1-00050937.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

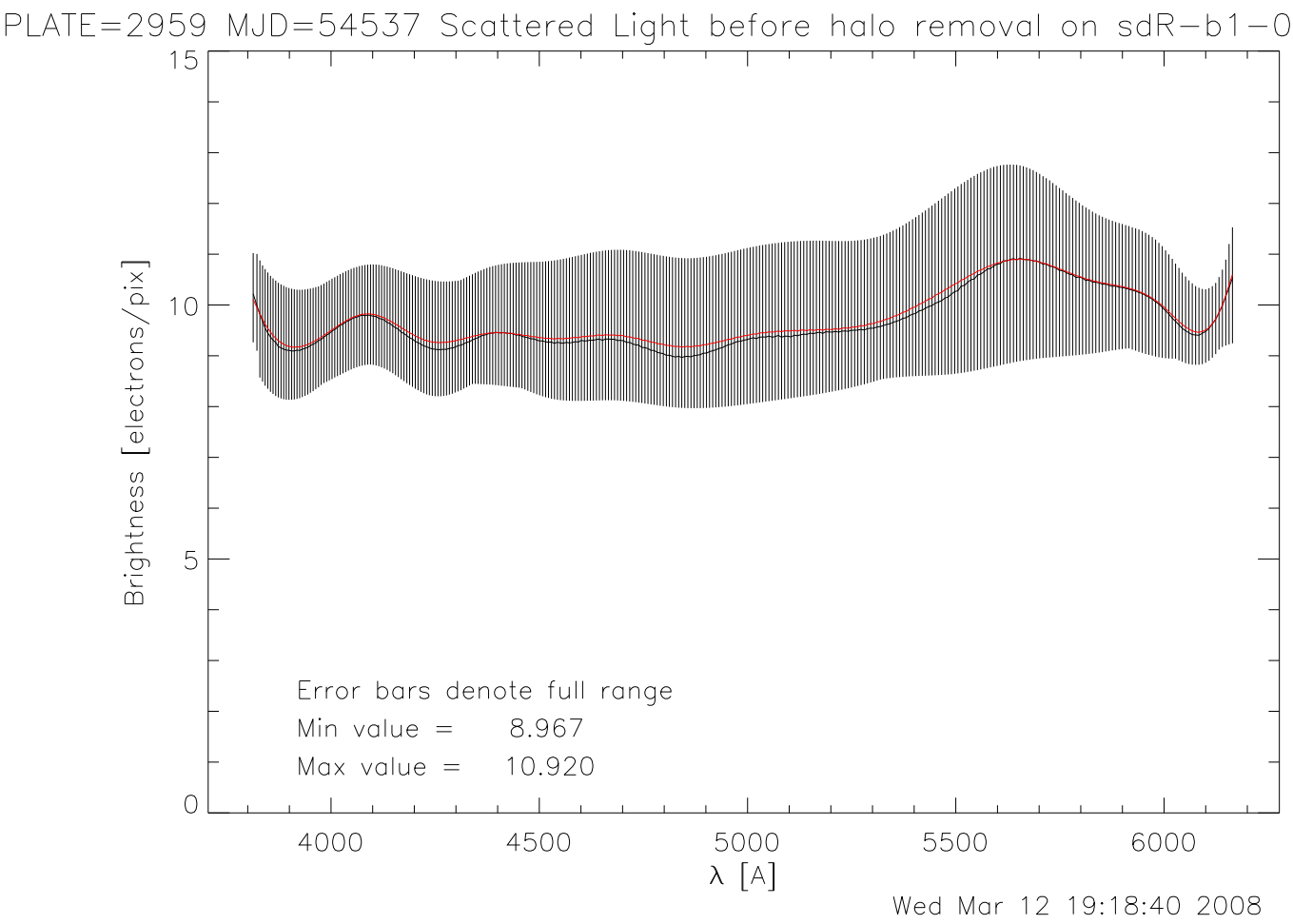

Number of sky fibers = 23
PLATE=2959 MJD=54537 sdR-b1-00050937.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

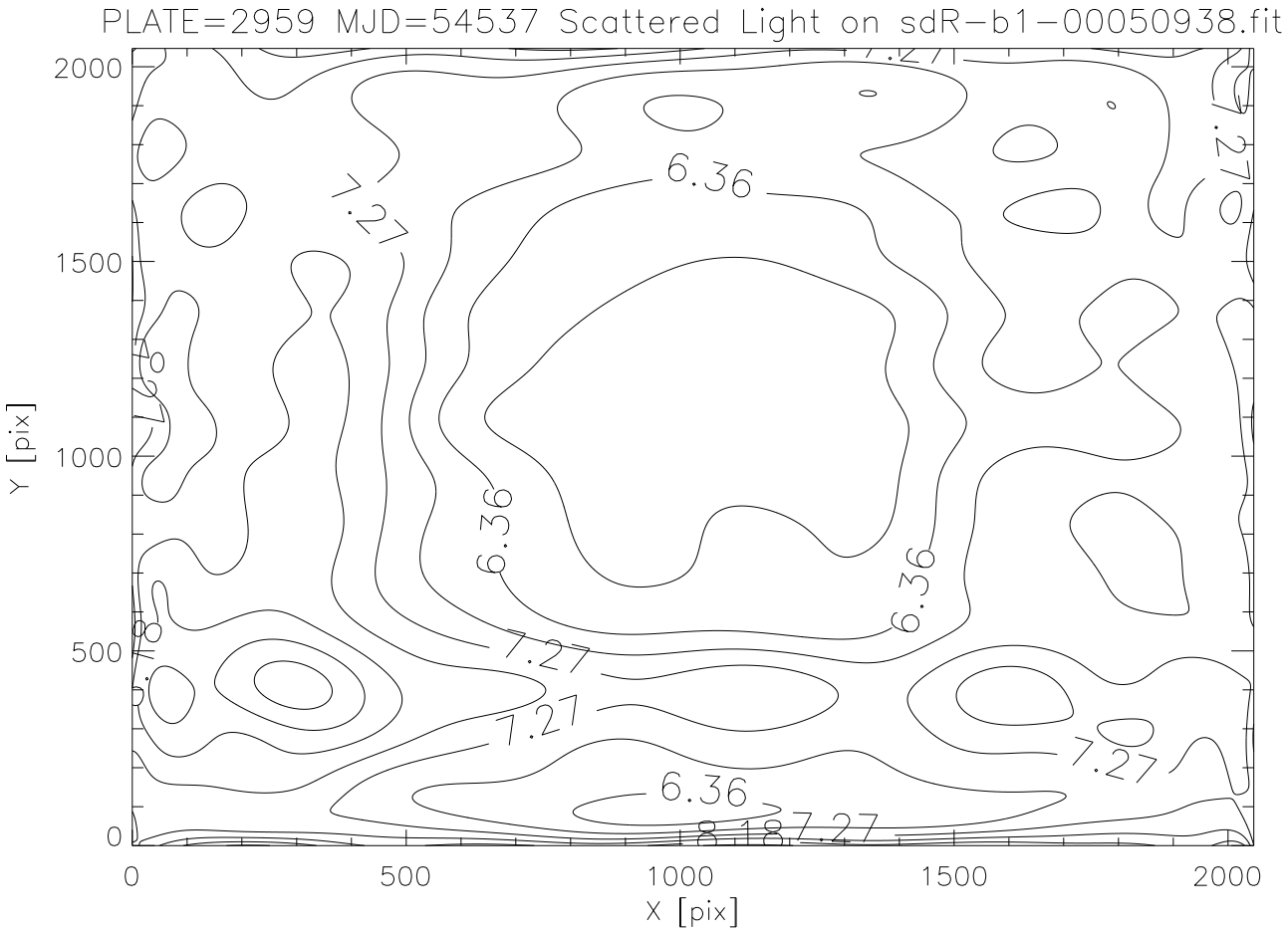

PLATE=2959 MJD=54537 sdR-b1-00050937.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 10.68 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

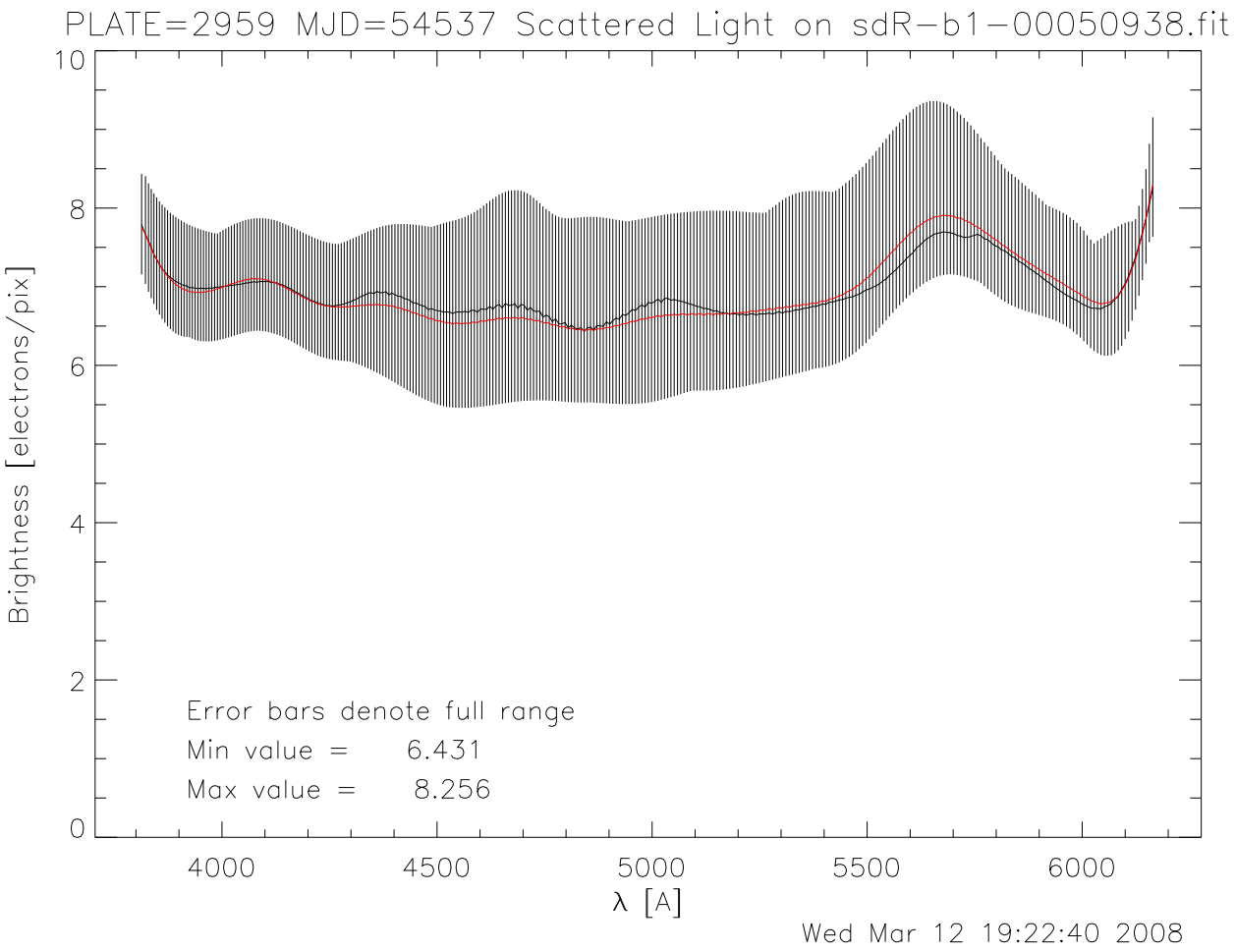

PLATE=2959 MJD=54537 sdR-b1-00050937.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.77 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

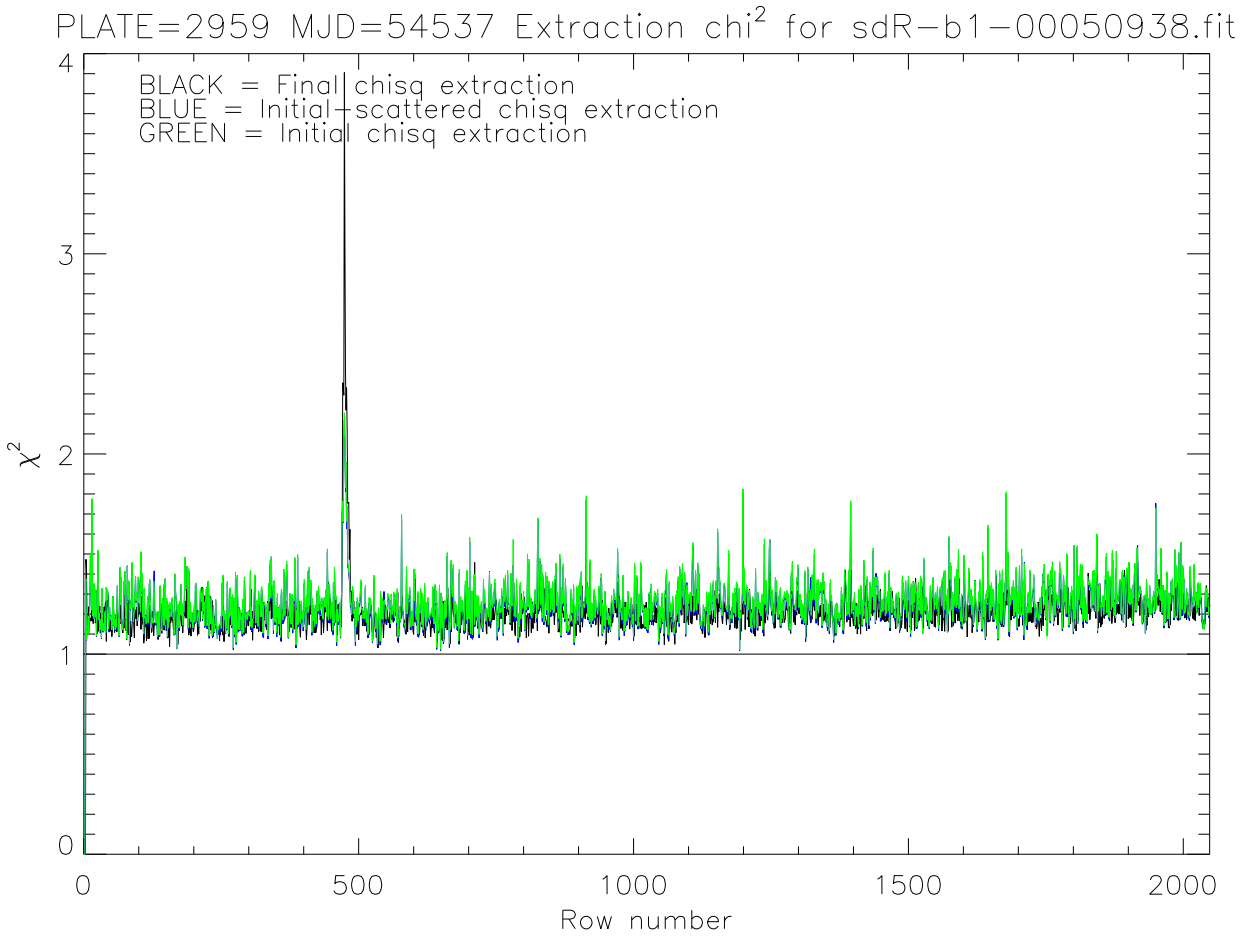

PLATE=2959 MJD=54537 Fiber−Flats for sdR−b1−00050940.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.104
Max value = 1.294
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 19:17:38 2008

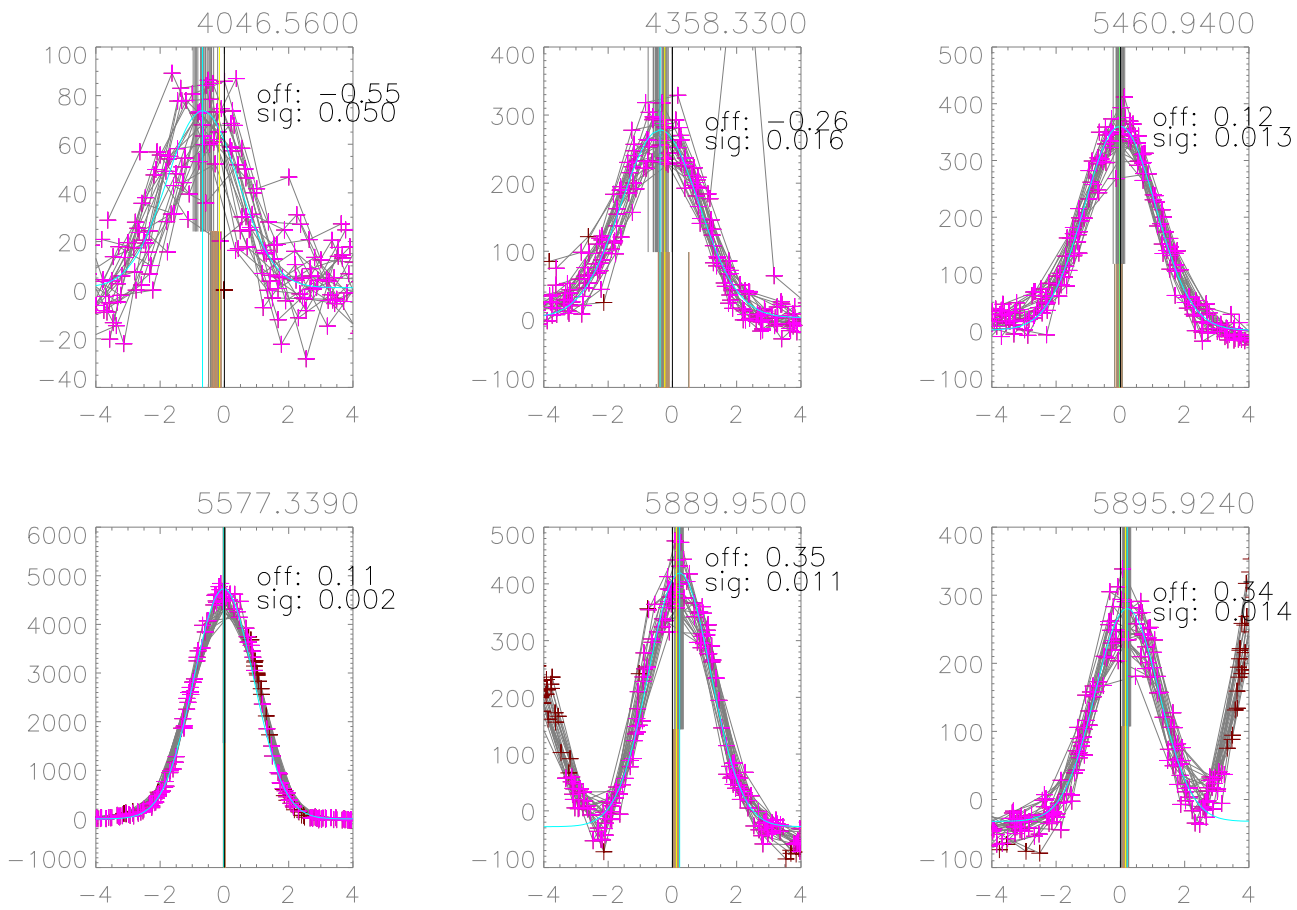

PLATE=2959 MJD=54537 Scattered Light before halo removal on sdR−b1−00050938.f
9.6
9.6
9.6
9.6
9.6
9.6
9.6
9.6
9.6
9.6
9.6
9.6
8.2
0
0
0

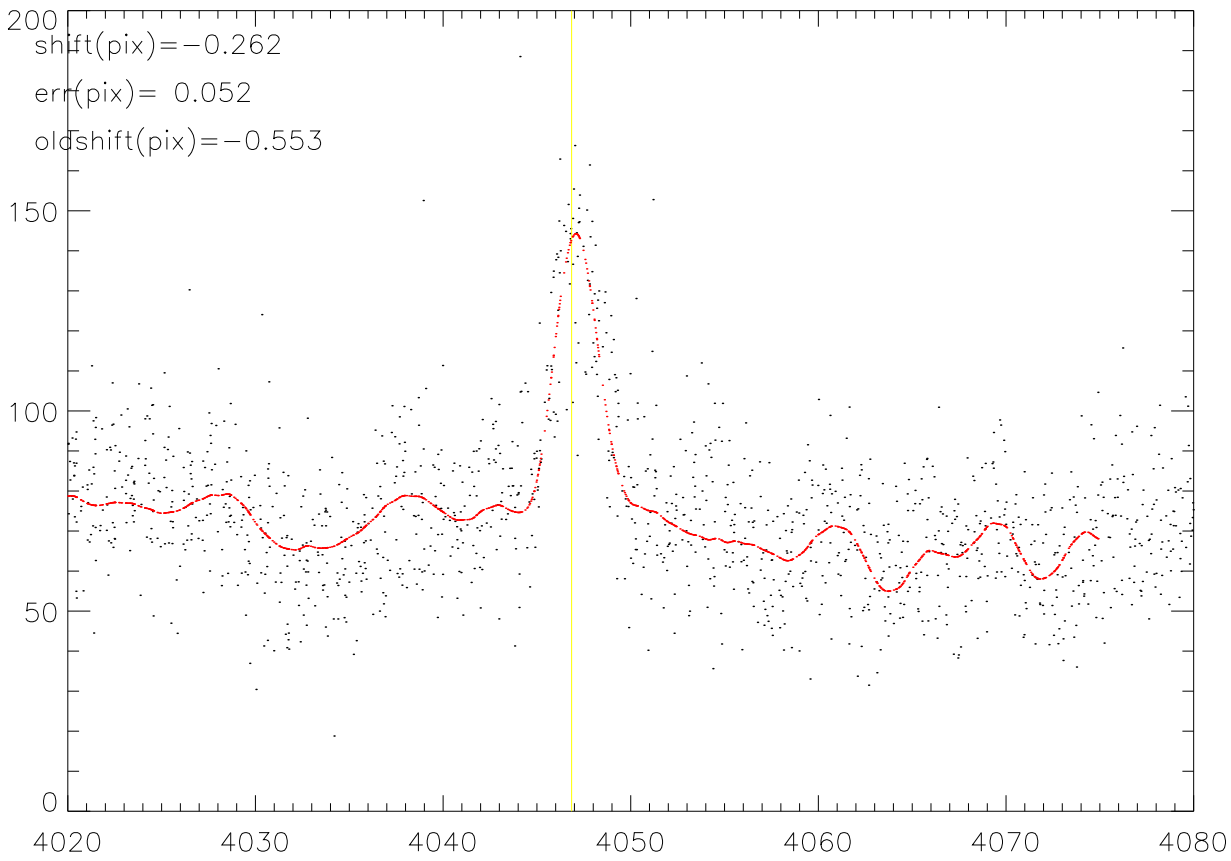

PLATE=2959 MJD=54537 Scattered Light before halo removal on sdR-b1-00050938.f
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 8.967
Max value = 10.920
Wed Mar 12 19:18:40 2008

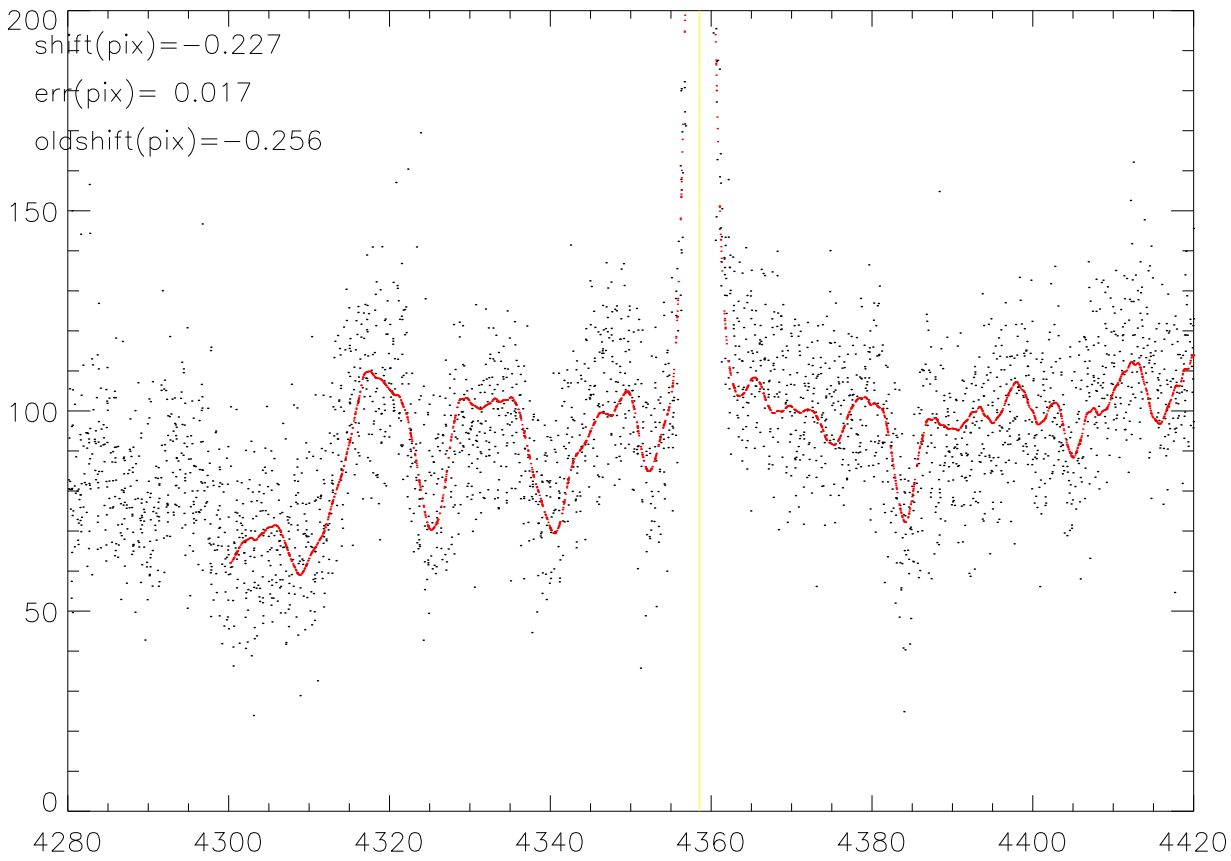

PLATE=2959 MJD=54537 Scattered Light on sdR-b1-00050938.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
6.36
7.27
8.18

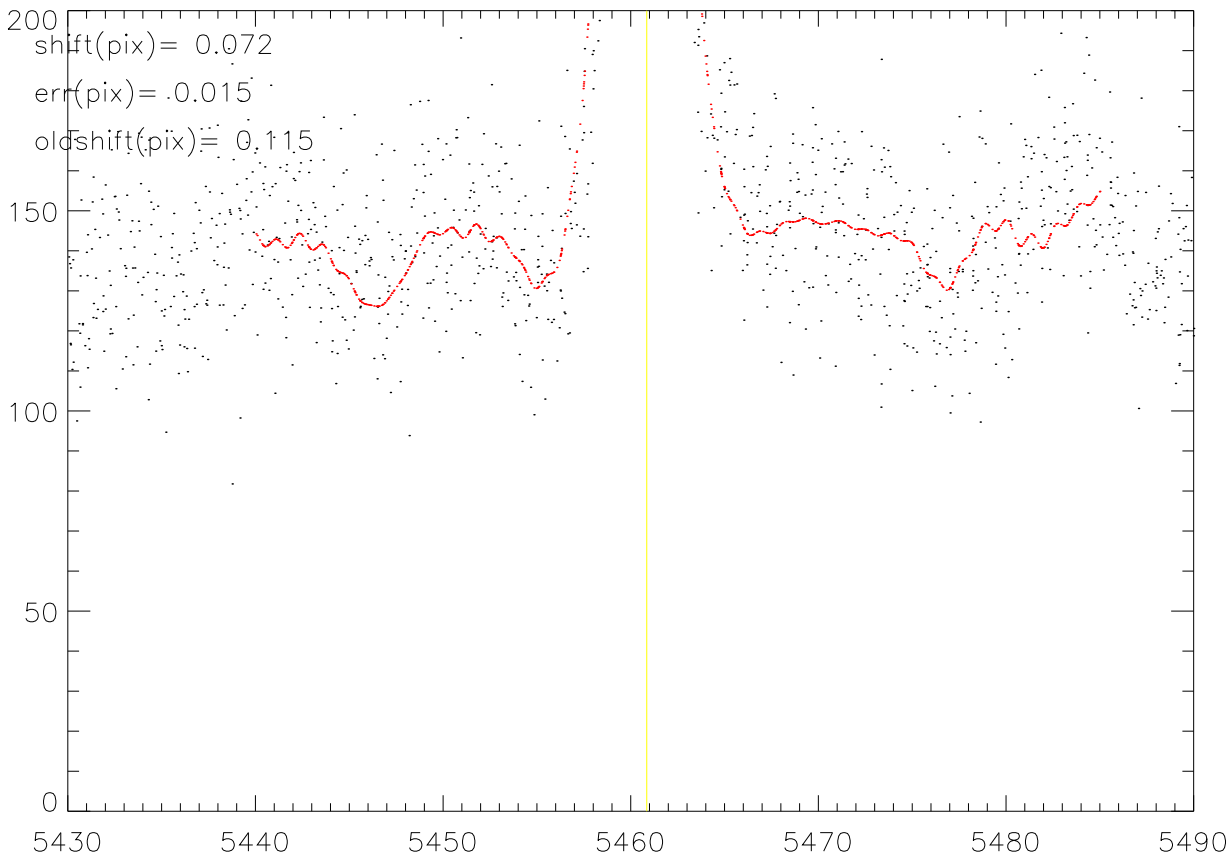

PLATE=2959 MJD=54537 Scattered Light on sdR-b1-00050938.fit
Brightness [electrons/pix]
10
8
6
4
2
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 6.431
Max value = 8.256
Wed Mar 12 19:22:40 2008

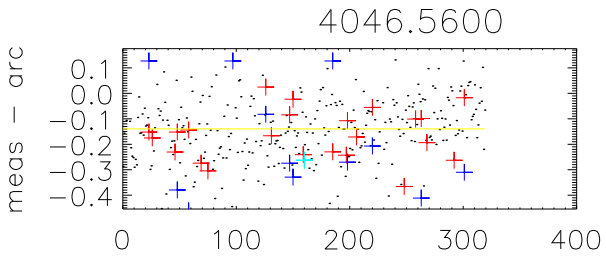

PLATE=2959 MJD=54537 Extraction chi^2 for sdR-b1-00050938.fit
BLACK = Final chisq extraction
BLUE = Initial+scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

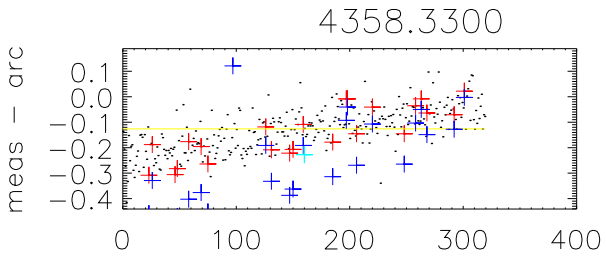

4046.5600
off: −0.55
sig: 0.050
4358.3300
off: −0.26
sig: 0.016
5460.9400
off: 0.12
sig: 0.013
5577.3390
off: 0.11
sig: 0.002
5889.9500
off: 0.35
sig: 0.011
5895.9240
off: 0.34
sig: 0.014

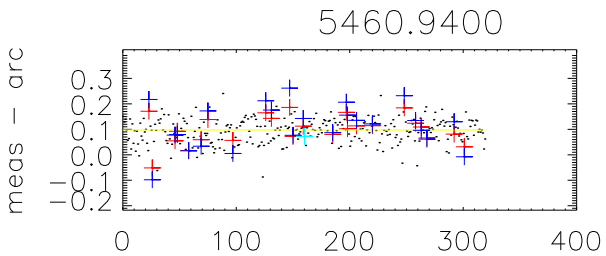

shift(pix)=−0.262
err(pix)= 0.052
oldshift(pix)=−0.553
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

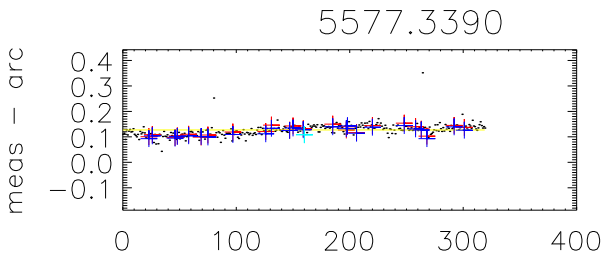

shift(pix)=−0.227
err(pix)= 0.017
oldshift(pix)=−0.256
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

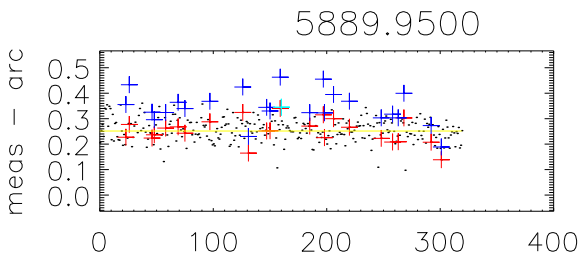

shift(pix)= 0.072
err(pix)= 0.015
oldshift(pix)= 0.115
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

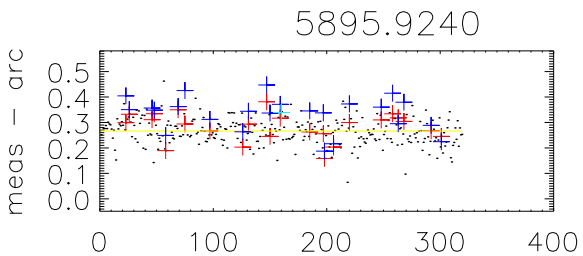

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

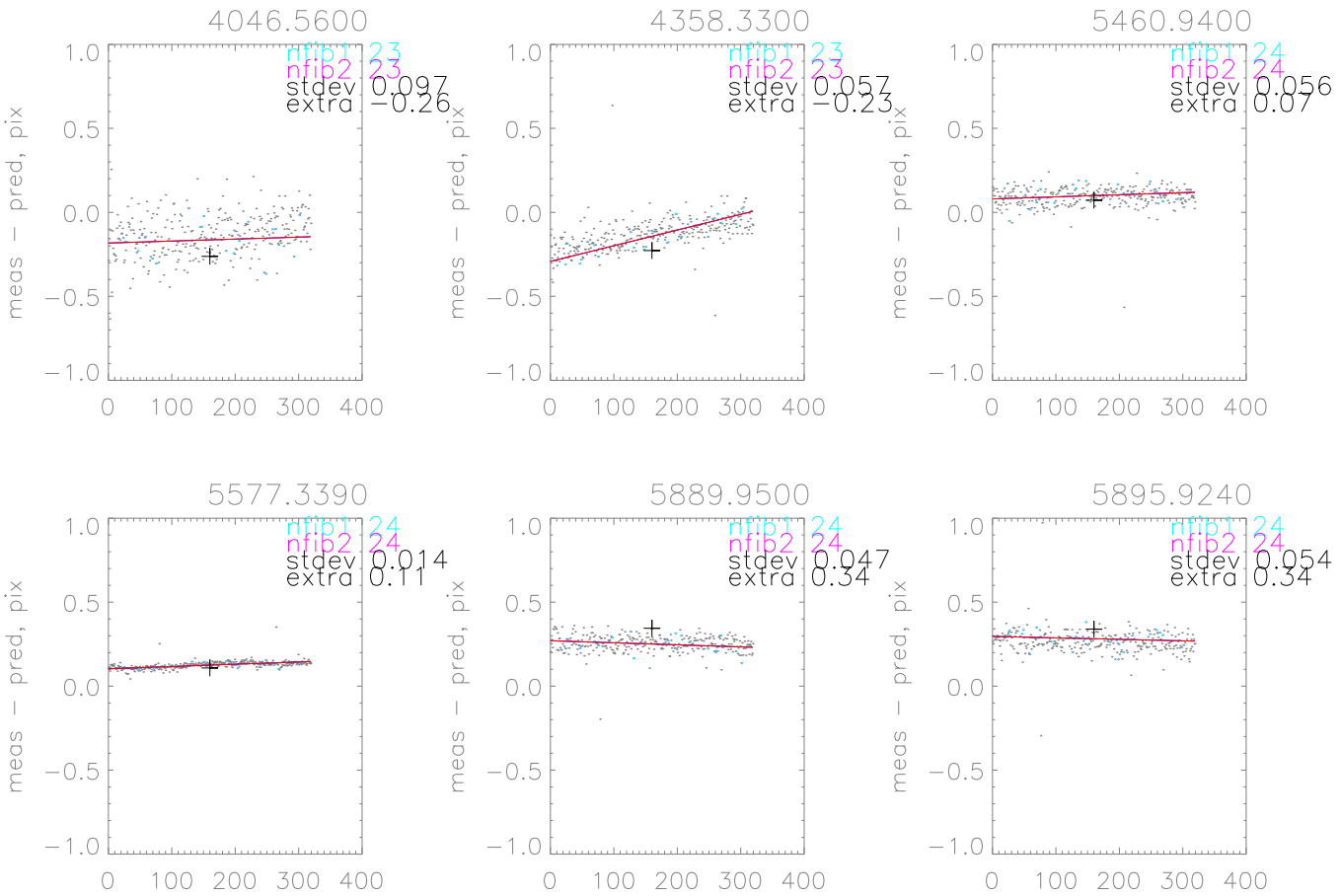

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

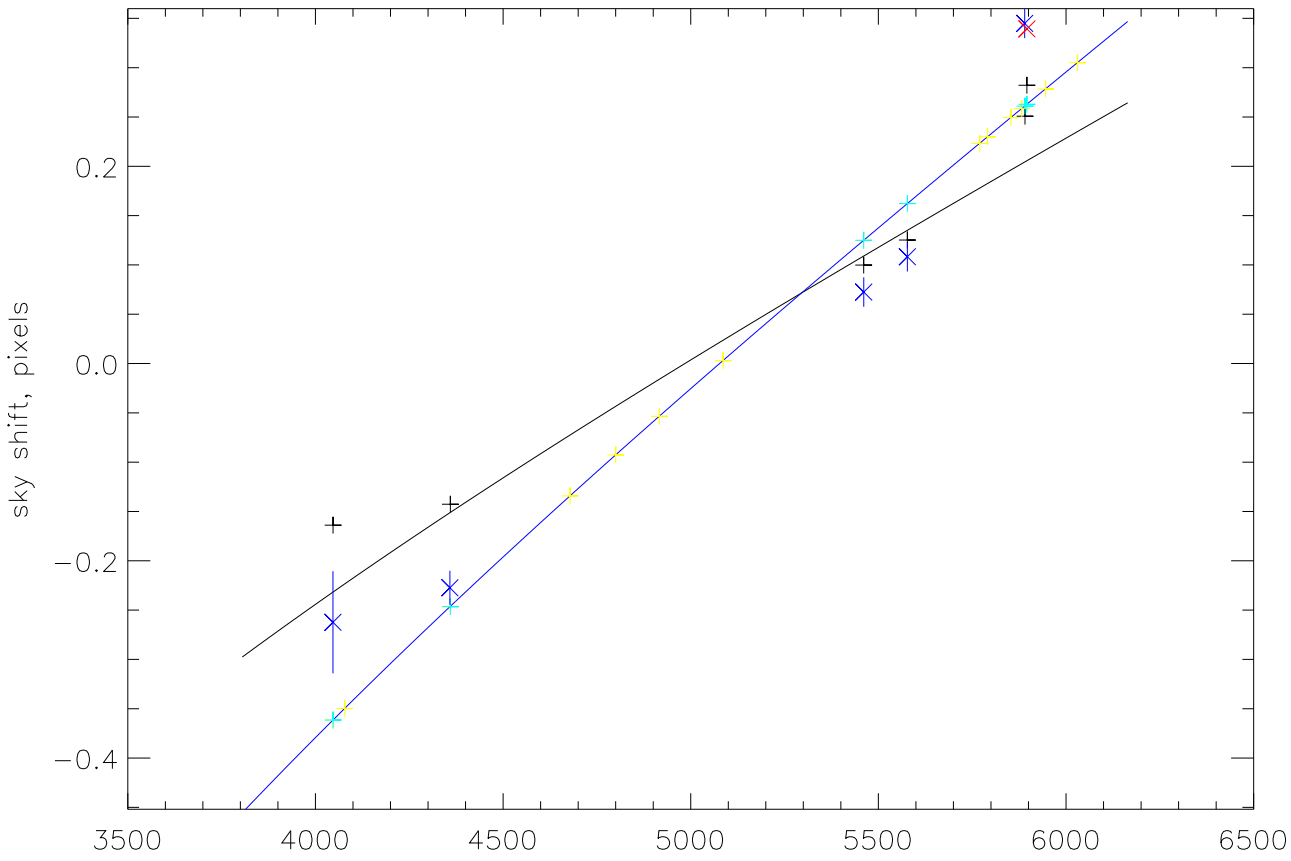

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

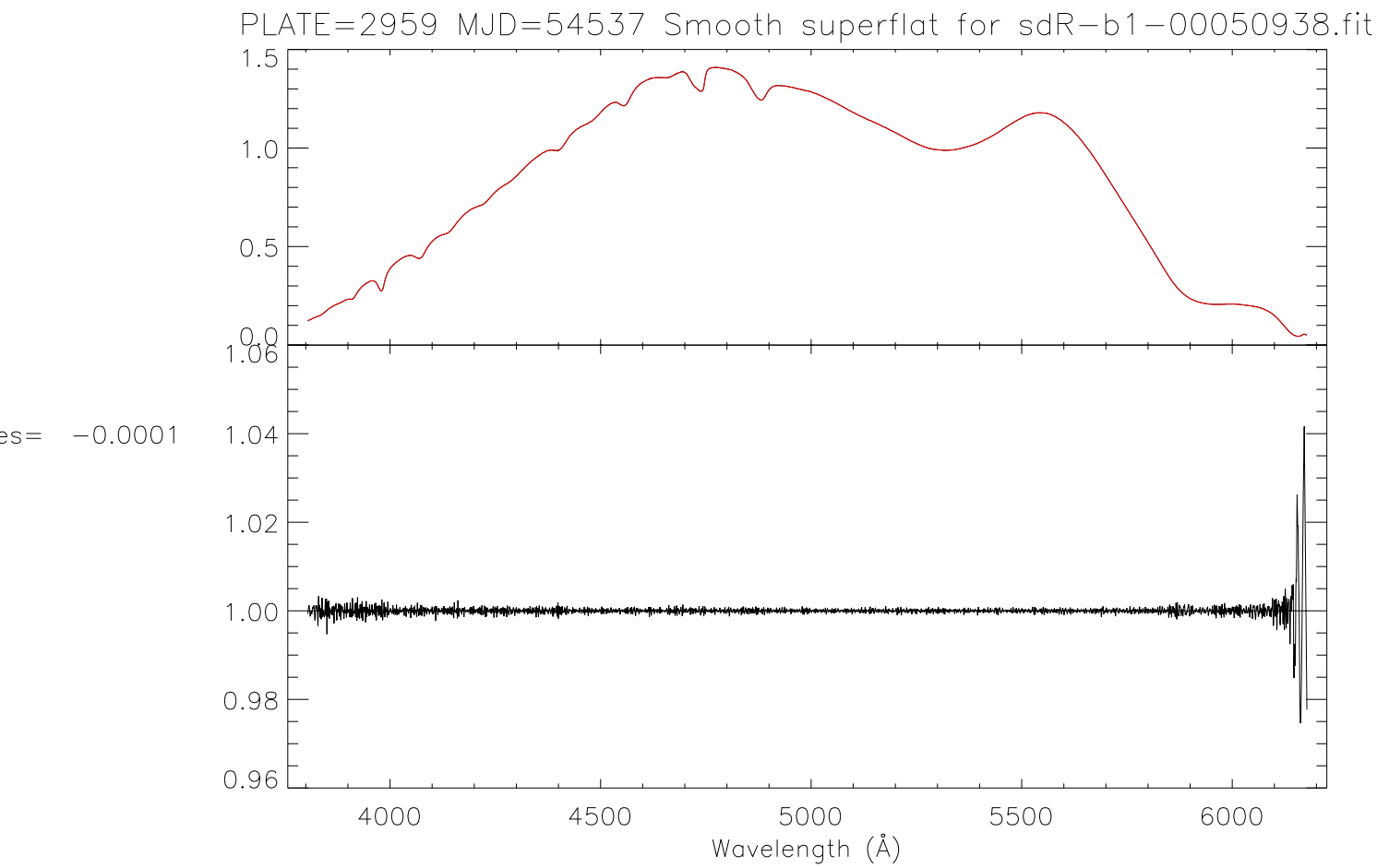

5577.3390
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

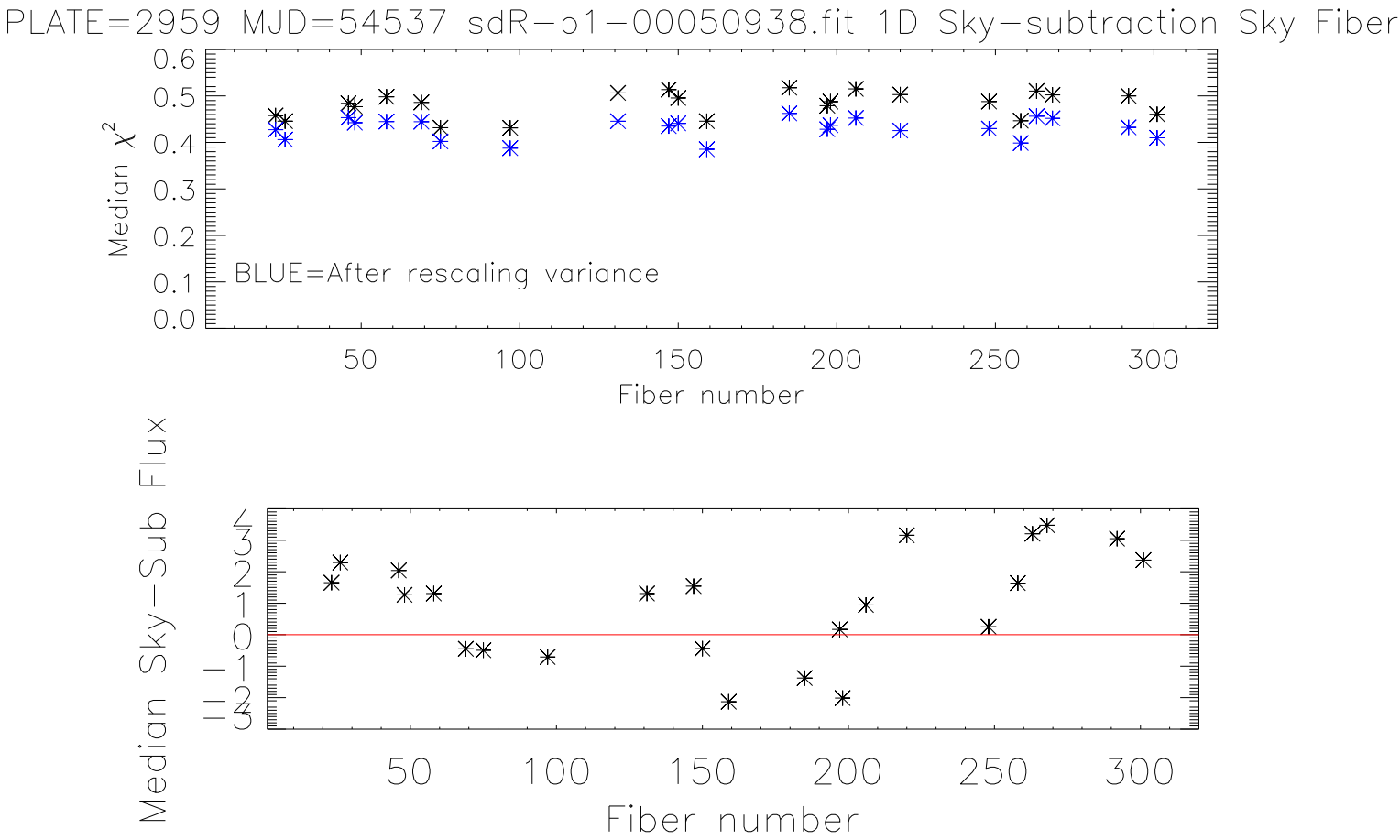

5895.9240
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

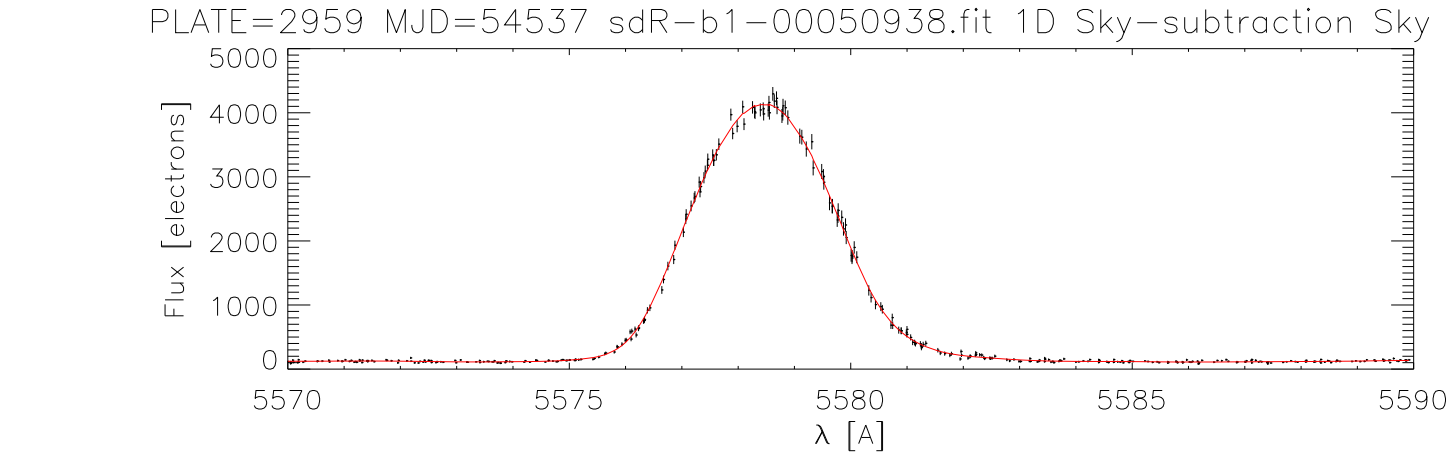

4046.5600
nfib1 23
nfib2 23
stdev 0.097
extra −0.26
4358.3300
nfib1 23
nfib2 23
stdev 0.057
extra −0.23
5460.9400
nfib1 24
nfib2 24
stdev 0.056
extra 0.07
5577.3390
nfib1 24
nfib2 24
stdev 0.014
extra 0.11
5889.9500
nfib1 24
nfib2 24
stdev 0.047
extra 0.34
5895.9240
nfib1 24
nfib2 24
stdev 0.054
extra 0.34
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

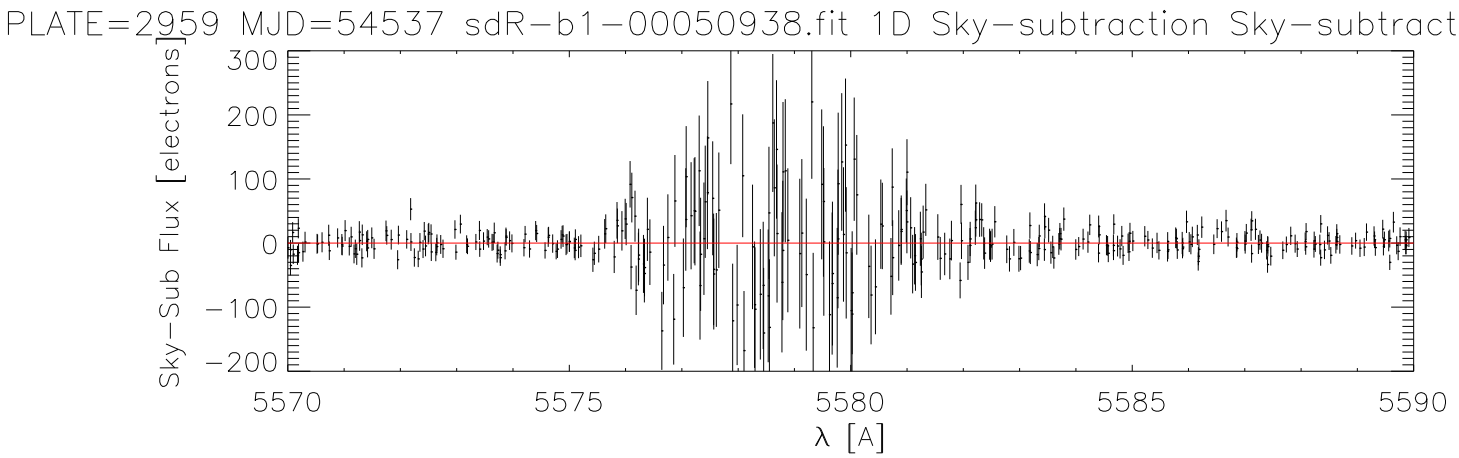

sky shift, pixels
0.2
0.0
−0.2
−0.4
3500
4000
4500
5000
5500
6000
6500

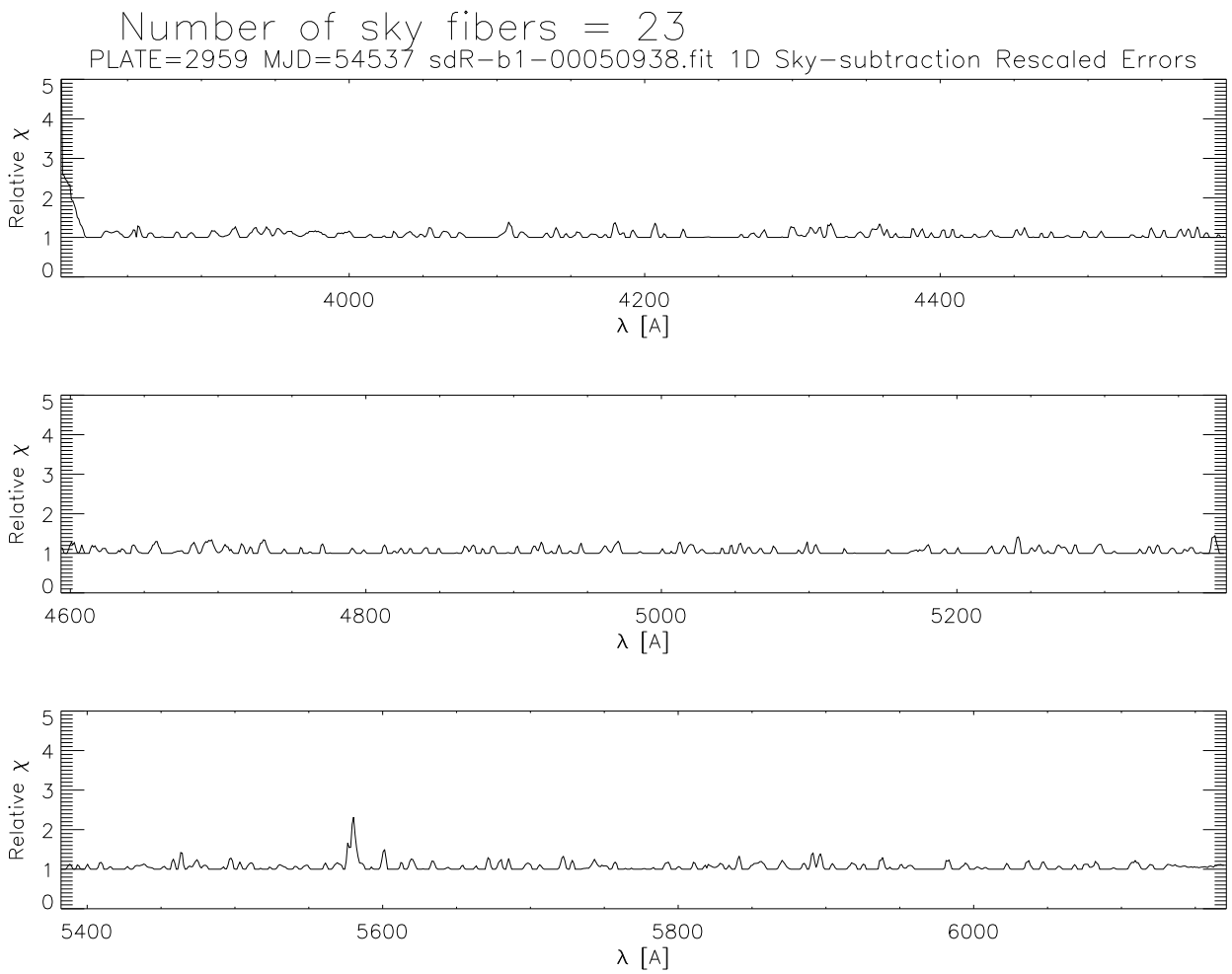

PLATE=2959 MJD=54537 Smooth superflat for sdR-b1-00050938.fit
1.5
1.0
0.5
0.0
1.06
1.04
1.02
1.00
0.98
0.96
4000
4500
5000
5500
6000
Wavelength (Å)

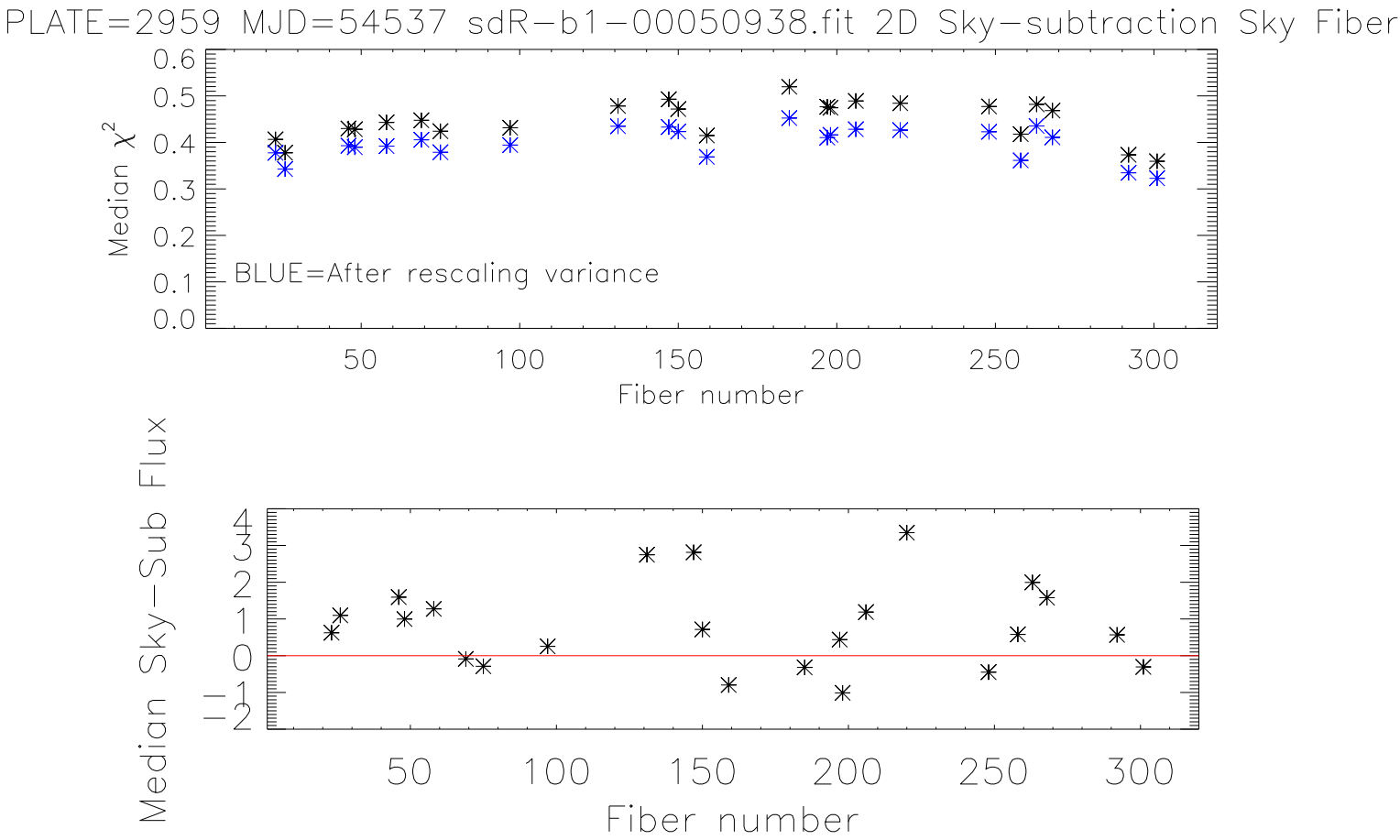
es= −0.0001

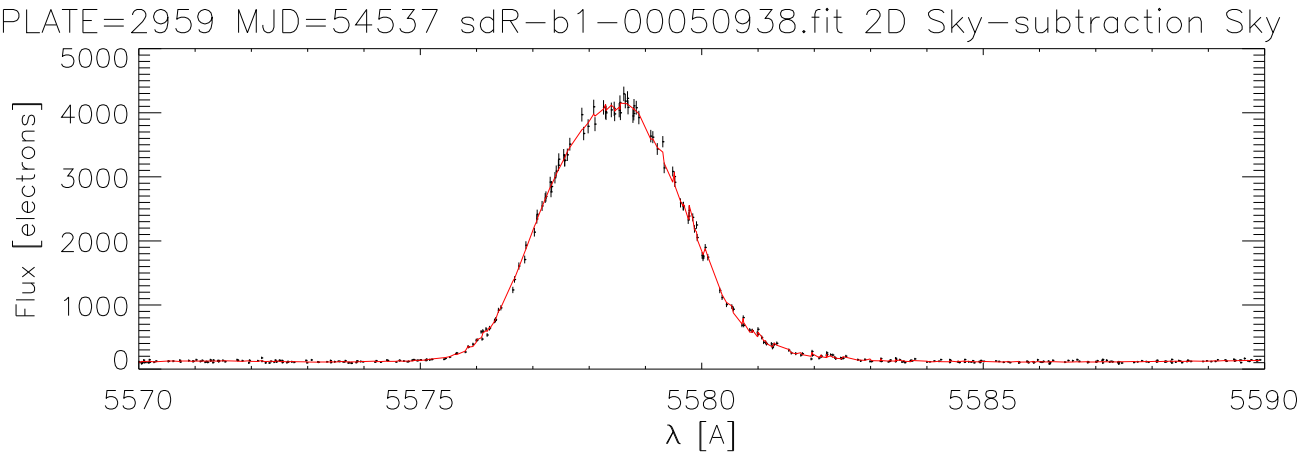

PLATE=2959 MJD=54537 sdR-b1-00050938.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-3
-2
-1
0
1
2
3
4
50
100
150
200
250
300
Fiber number

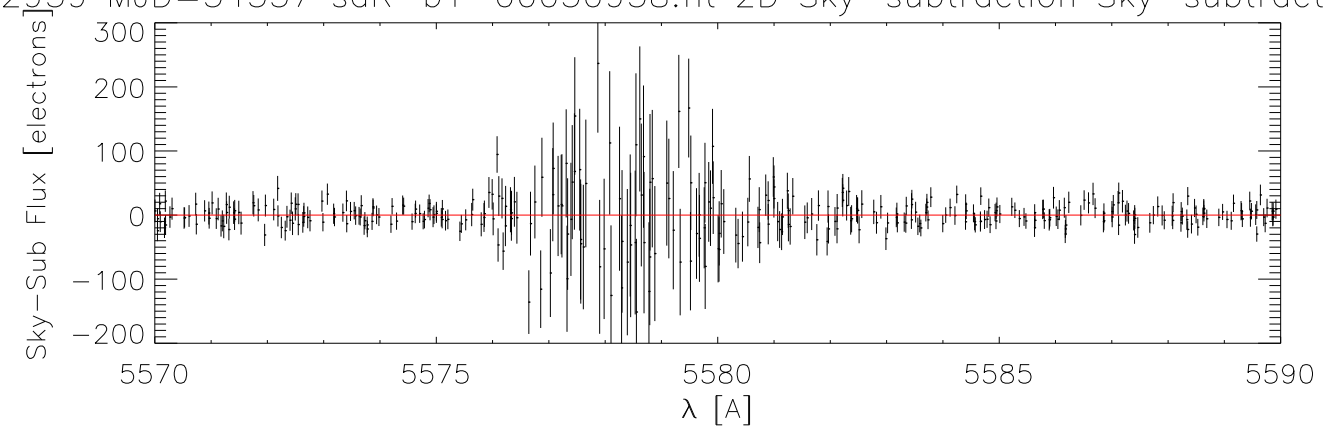

PLATE=2959 MJD=54537 sdR-b1-00050938.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

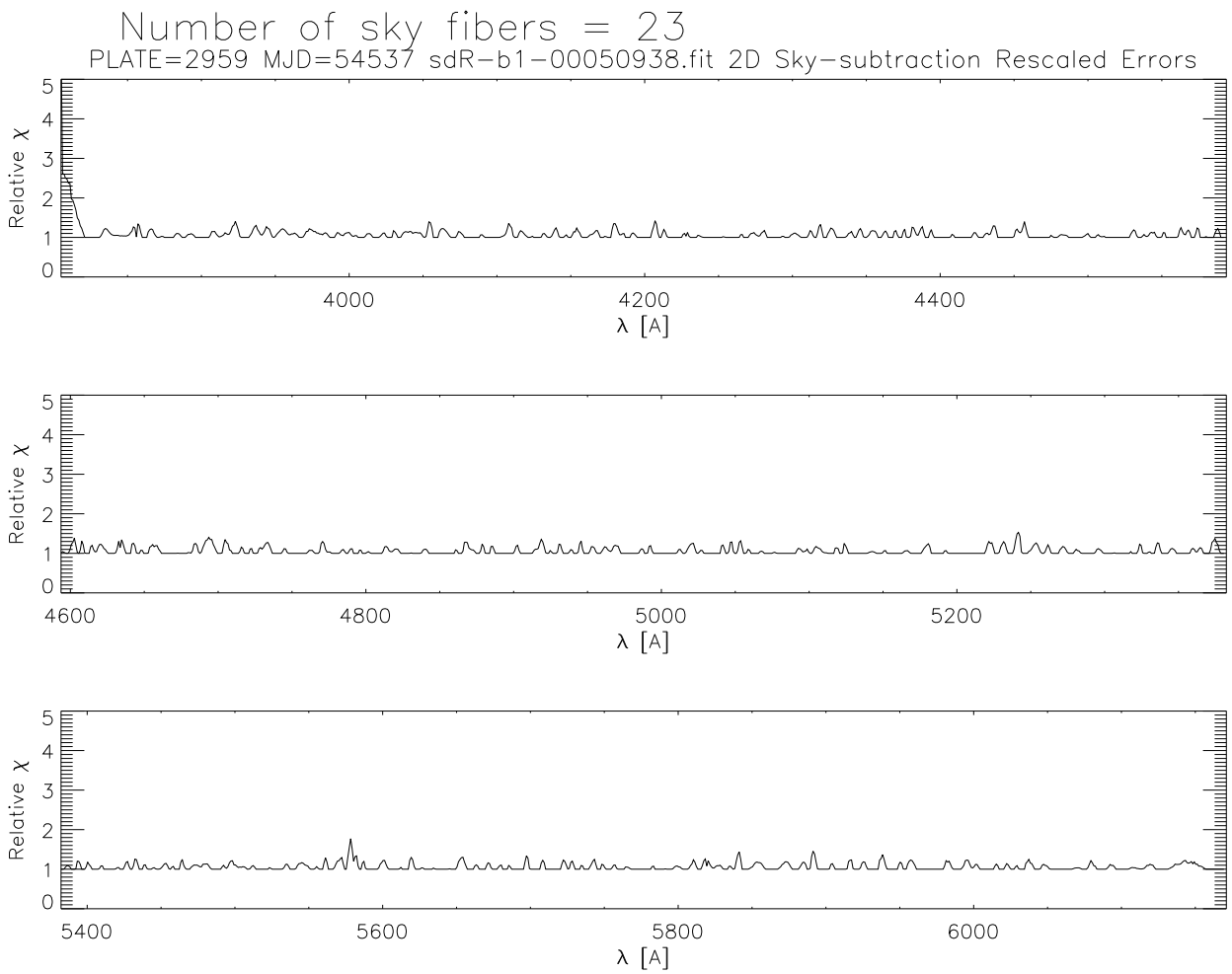

PLATE=2959 MJD=54537 sdR-b1-00050938.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

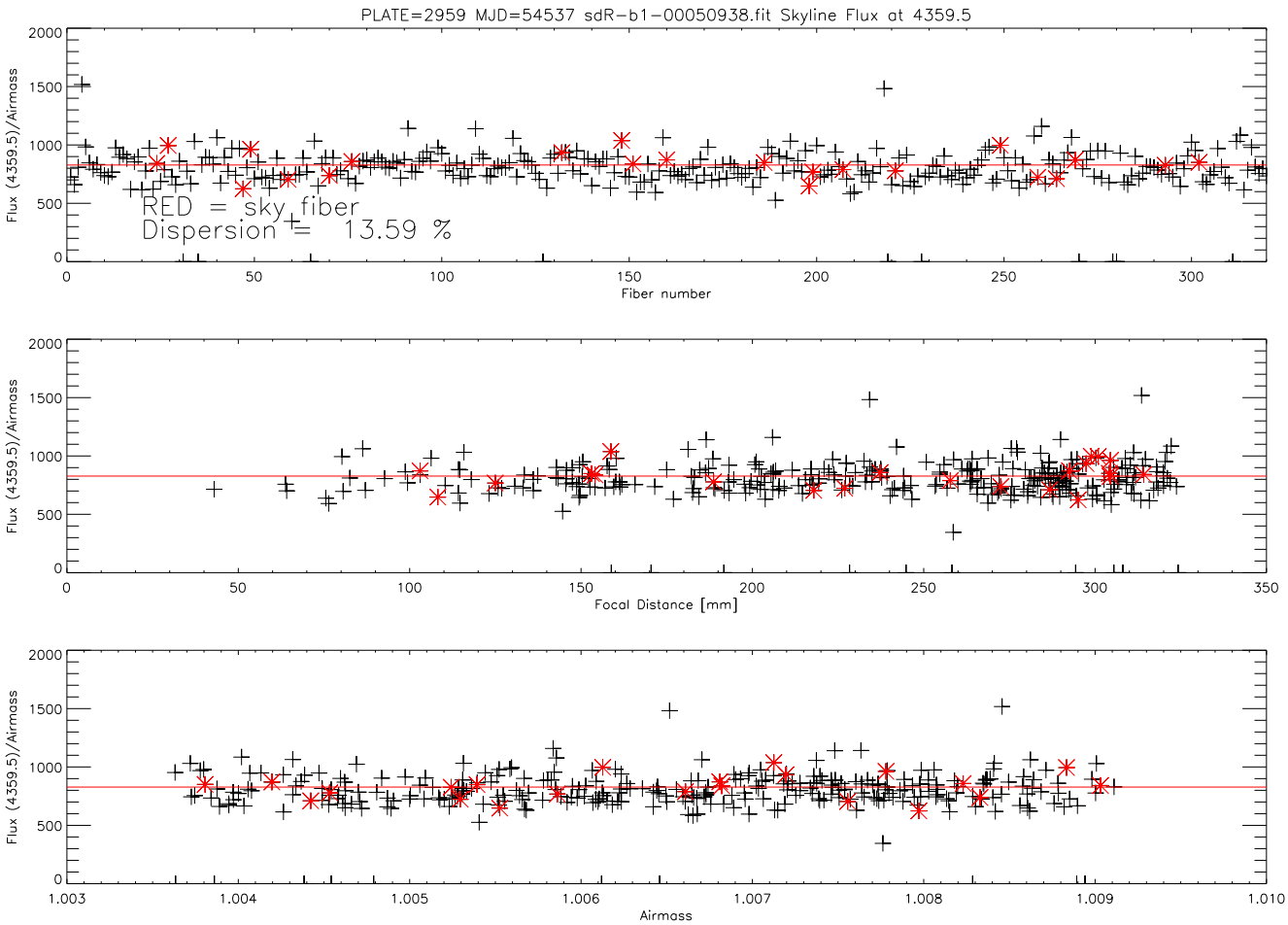

Number of sky fibers = 23
PLATE=2959 MJD=54537 sdR-b1-00050938.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

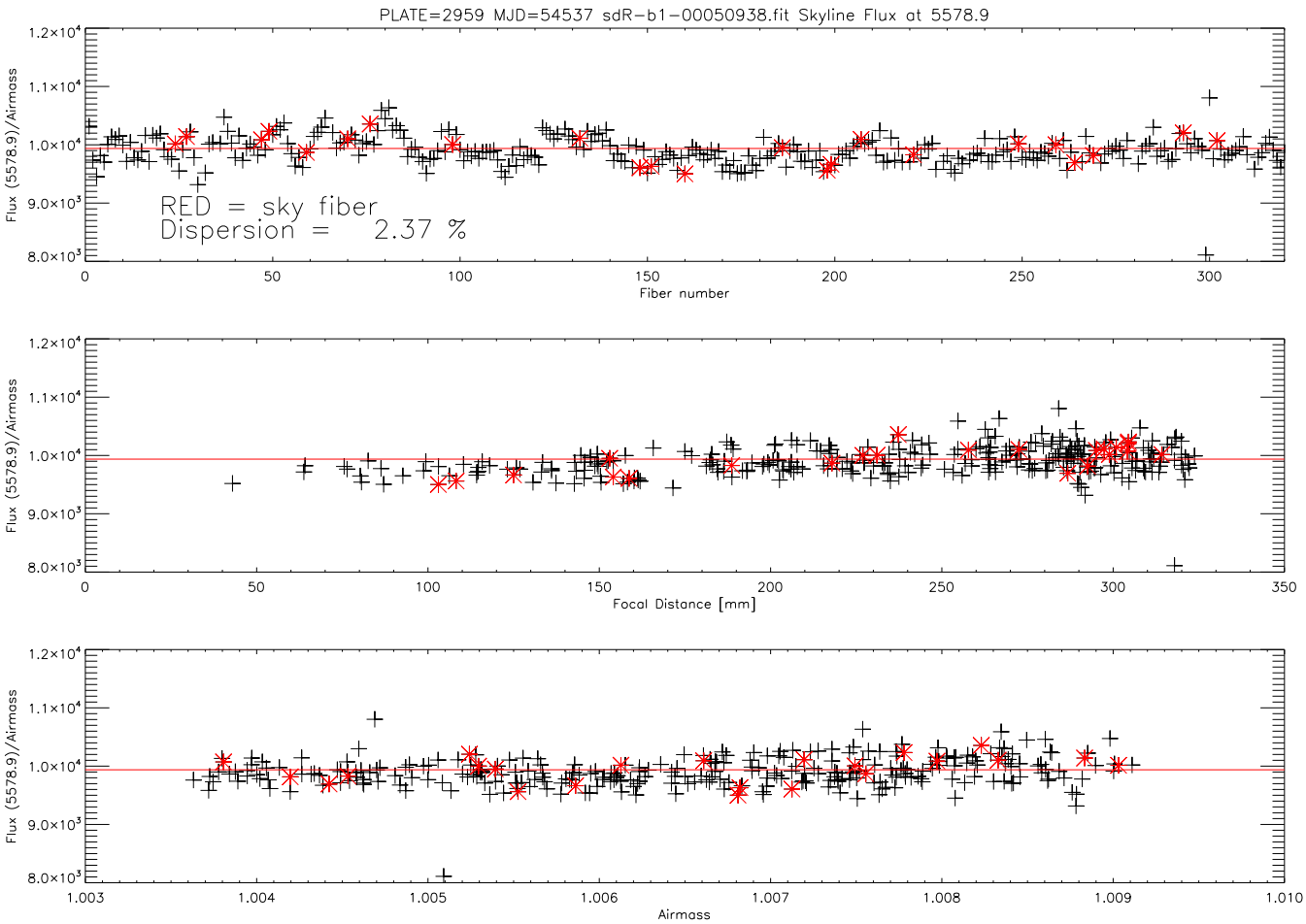

PLATE=2959 MJD=54537 sdR-b1-00050938.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

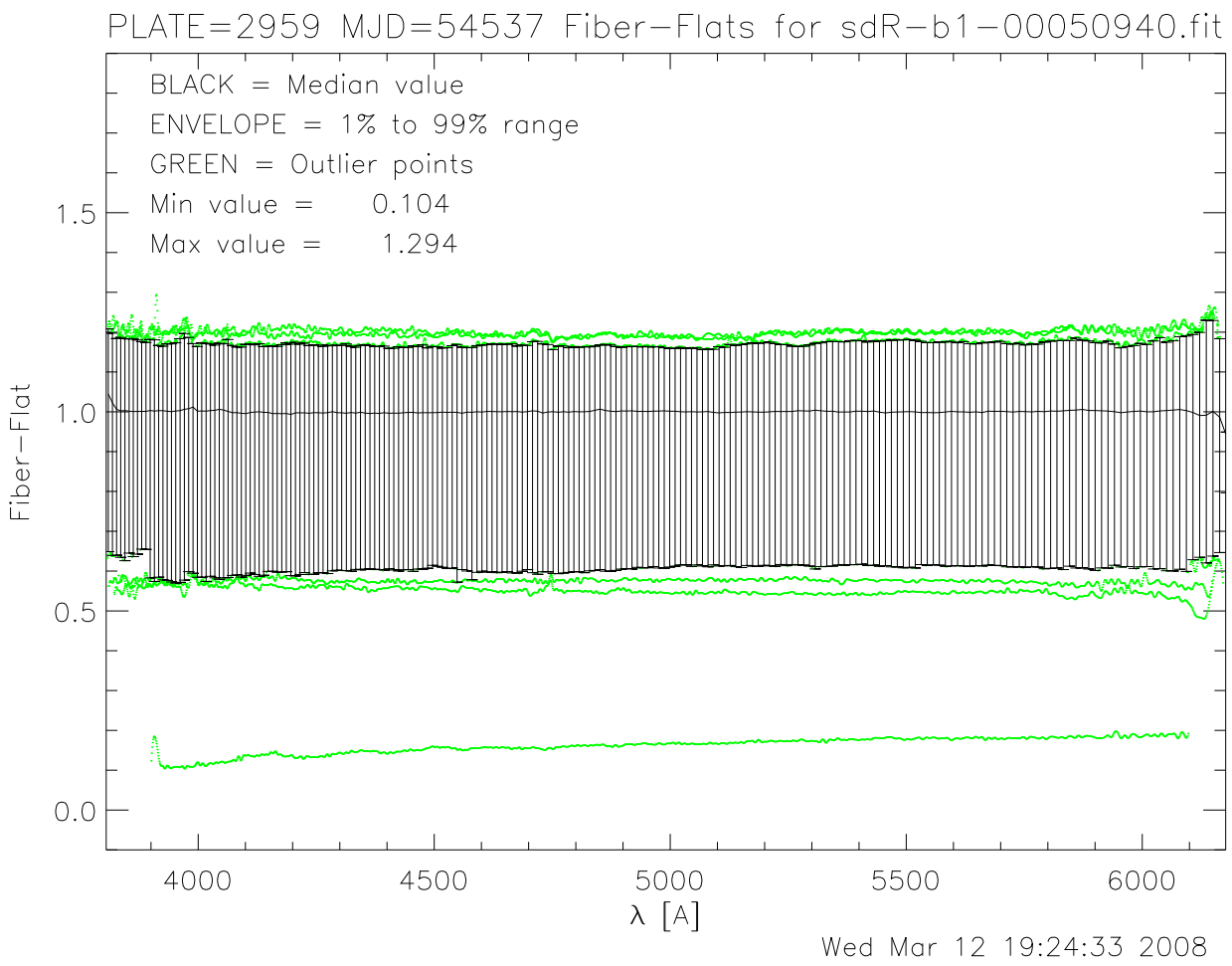

PLATE=2959 MJD=54537 sdR-b1-00050938.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

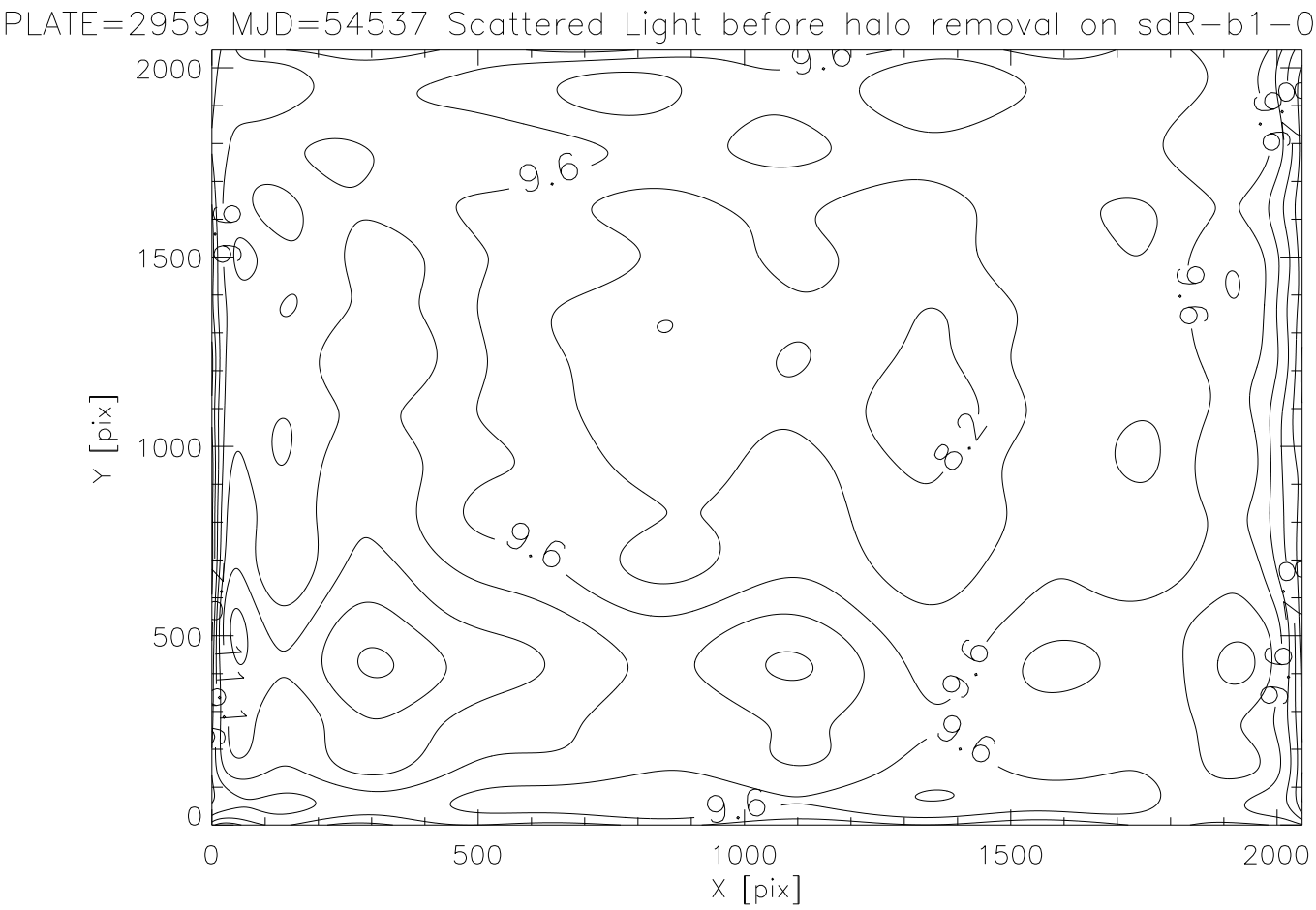

PLATE=2959 MJD=54537 sdR-b1-00050938.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

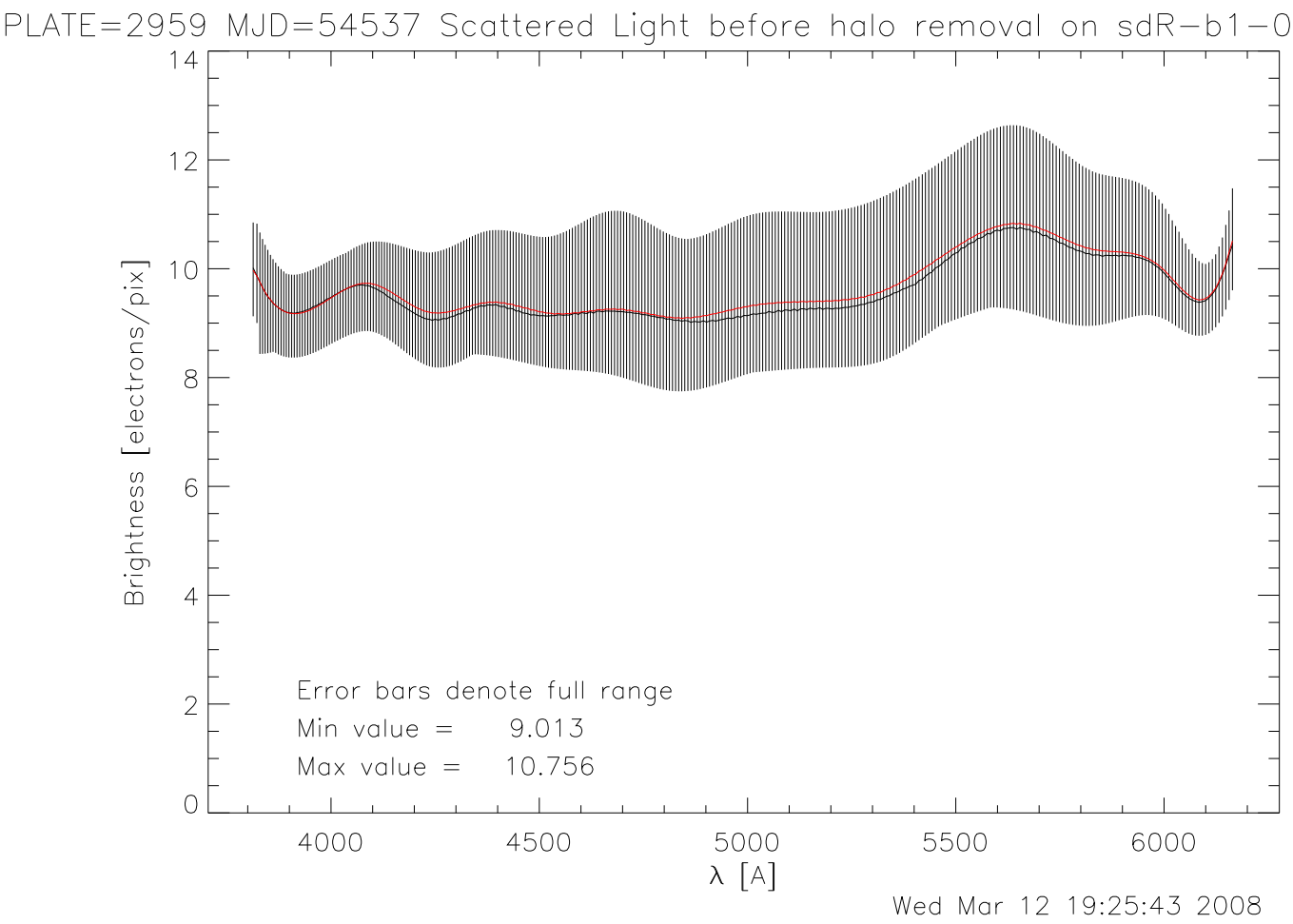

Number of sky fibers = 23
PLATE=2959 MJD=54537 sdR-b1-00050938.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

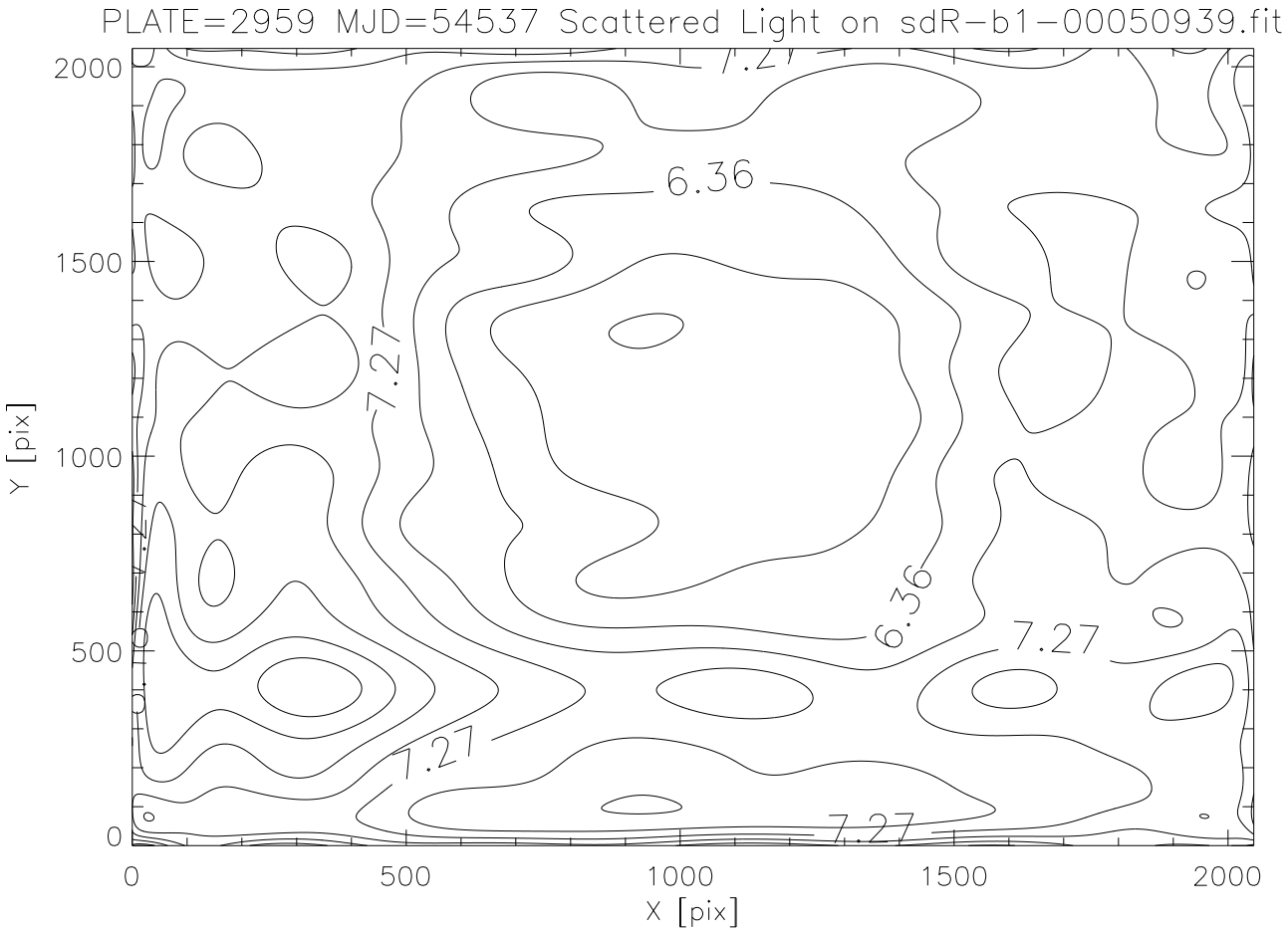

PLATE=2959 MJD=54537 sdR-b1-00050938.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 13.59 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

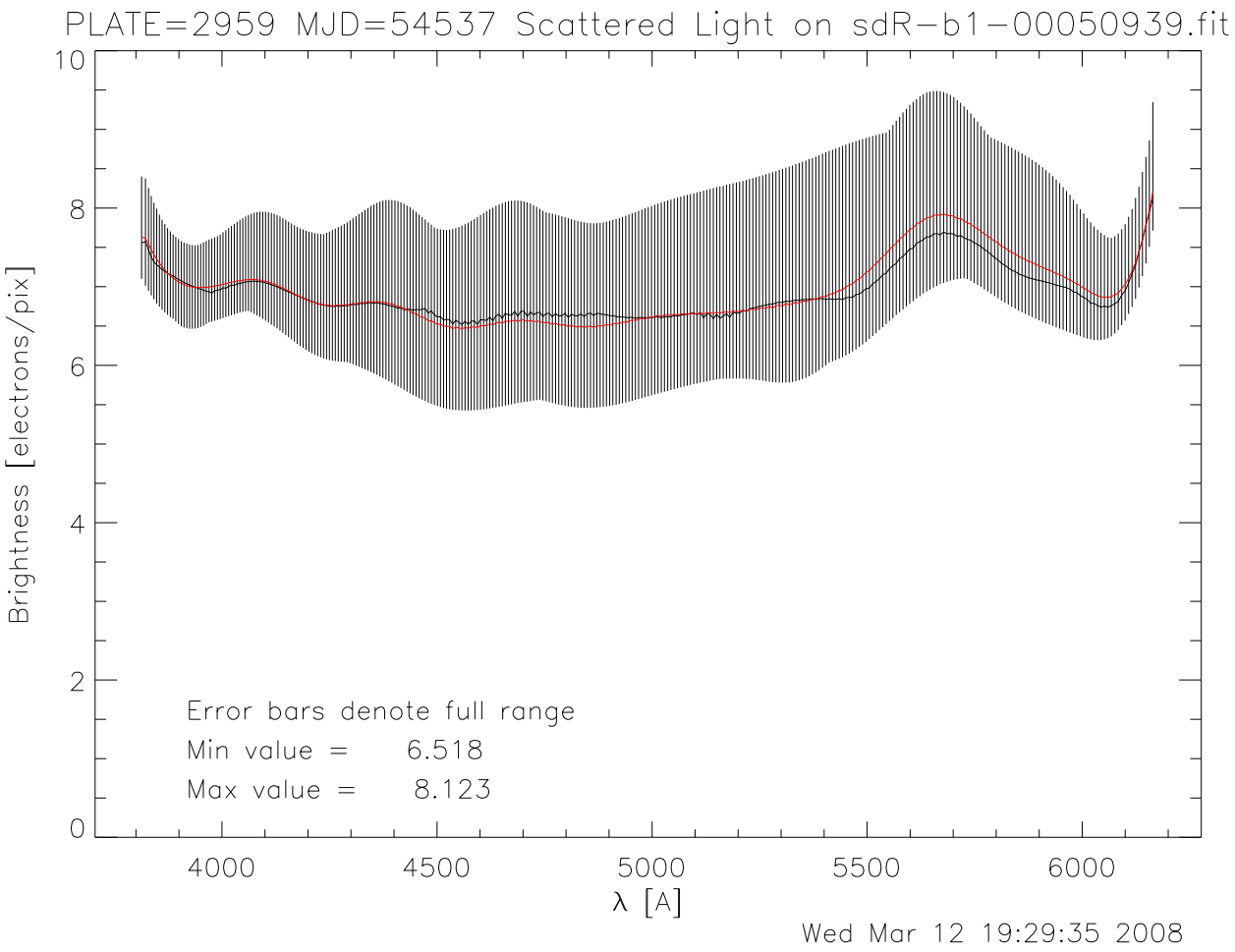

PLATE=2959 MJD=54537 sdR-b1-00050938.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.37 %
Fiber number
Focal Distance [mm]
Airmass

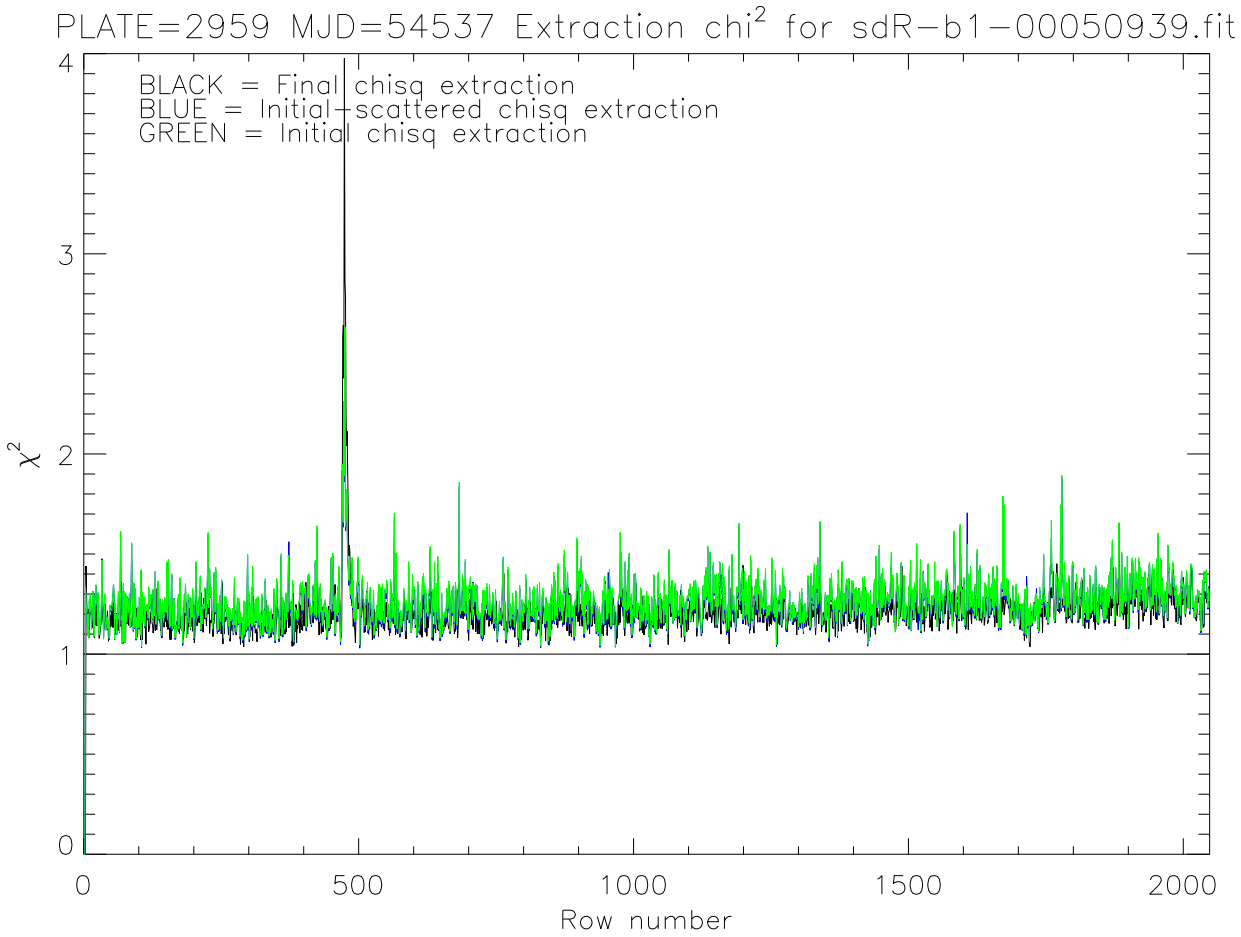

PLATE=2959 MJD=54537 Fiber−Flats for sdR−b1−00050940.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.104
Max value = 1.294
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 19:24:33 2008

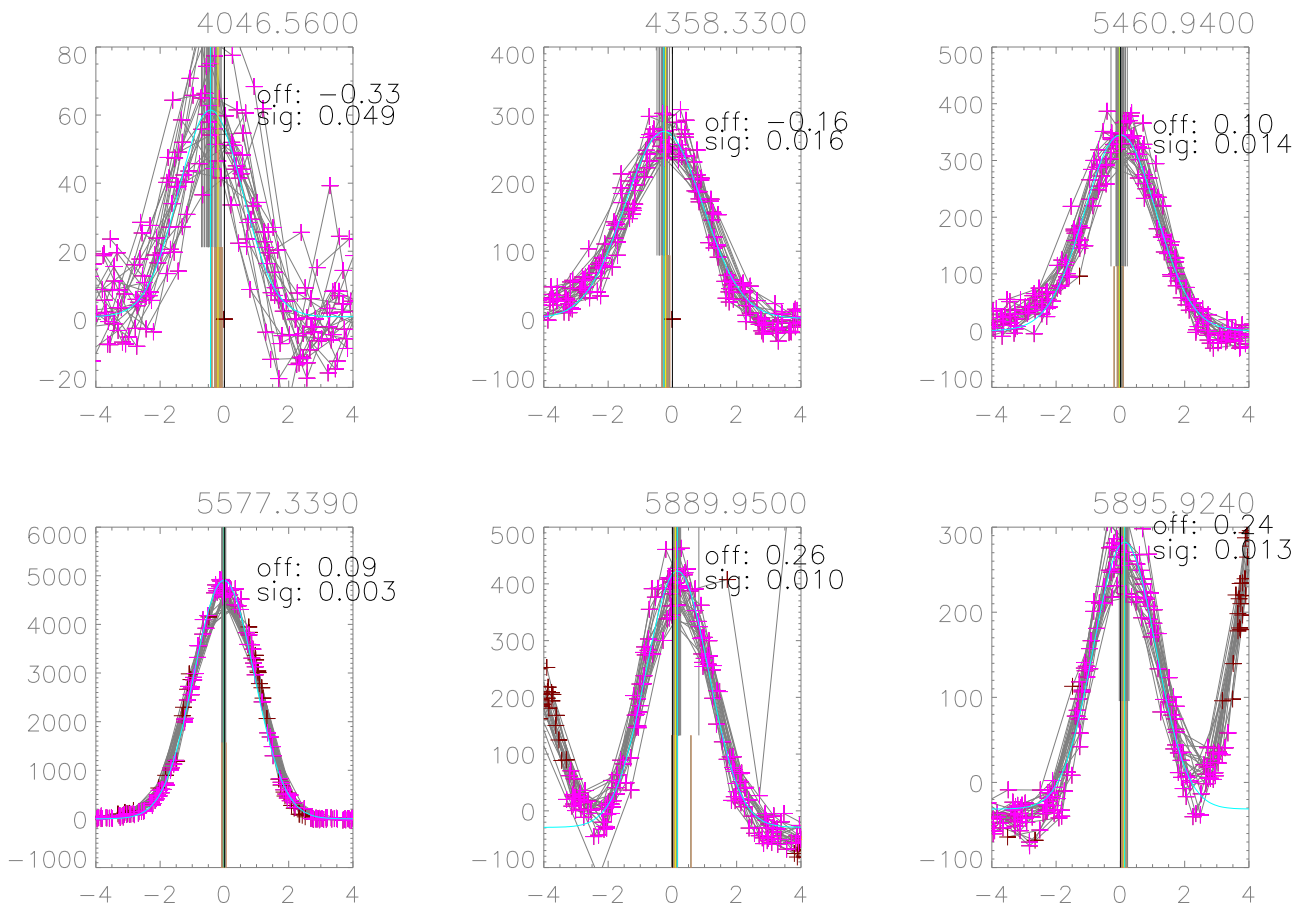

PLATE=2959 MJD=54537 Scattered Light before halo removal on sdR−b1−00050939.f
Y [pix]
X [pix]
0
500
1000
1500
2000
9.6
8.2

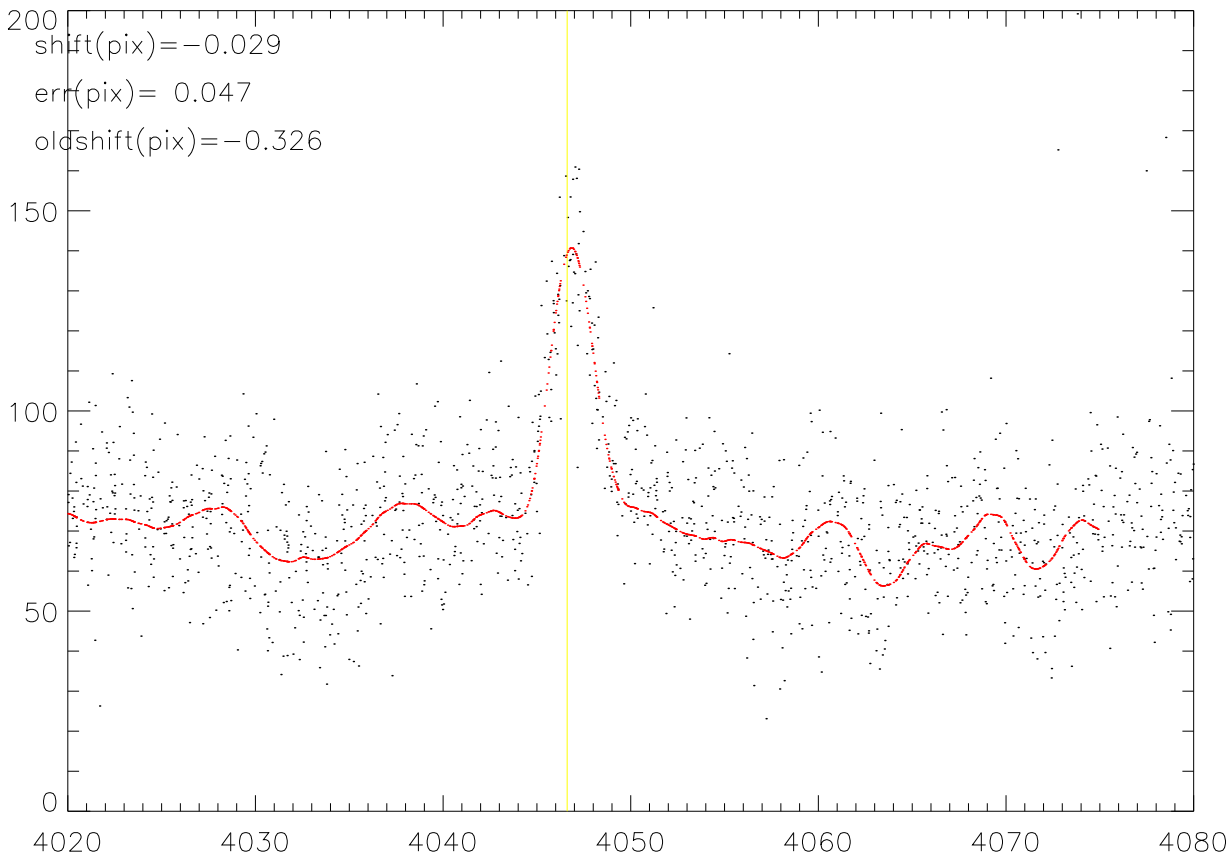

PLATE=2959 MJD=54537 Scattered Light before halo removal on sdR−b1−00050939.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 9.013
Max value = 10.756
Wed Mar 12 19:25:43 2008

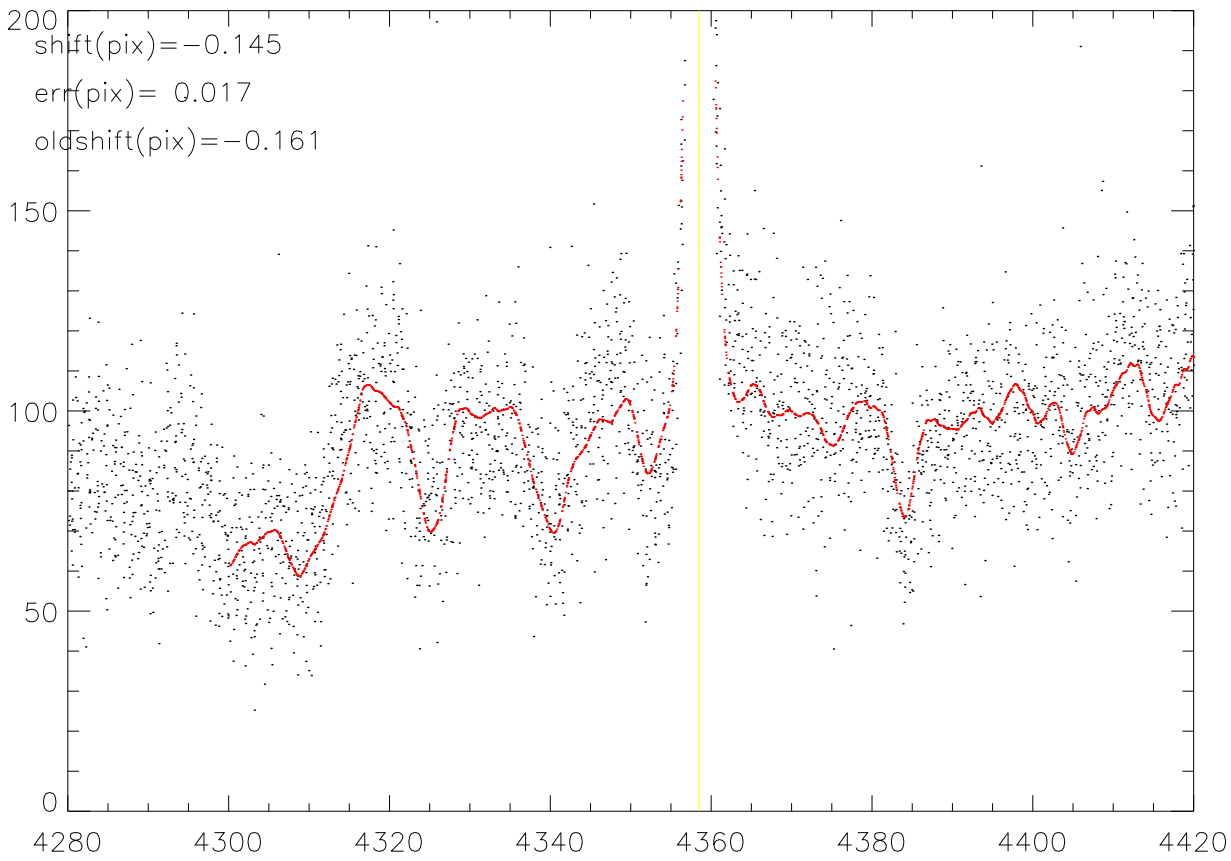

PLATE=2959 MJD=54537 Scattered Light on sdR-b1-00050939.fit
7.27
6.36
7.27
6.36
7.27
7.27
7.27
0
0
0
0
0
0
2000
1500
1000
500
0
0
500
1000
1500
2000
Y [pix]
X [pix]

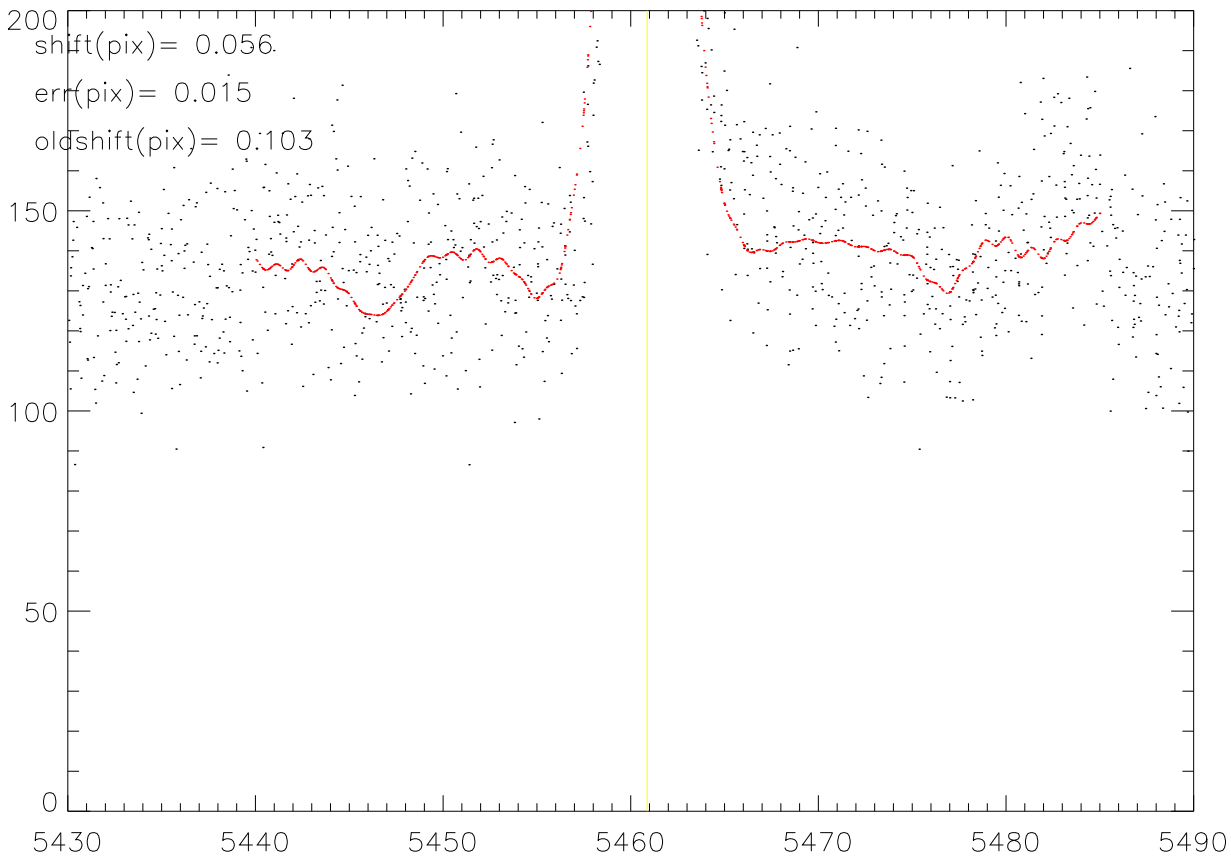

PLATE=2959 MJD=54537 Scattered Light on sdR-b1-00050939.fit
Brightness [electrons/pix]
10
8
6
4
2
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 6.518
Max value = 8.123
Wed Mar 12 19:29:35 2008

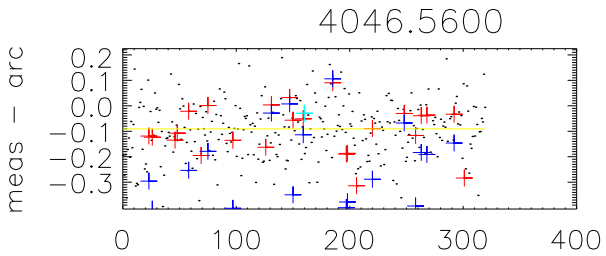

PLATE=2959 MJD=54537 Extraction chi^2 for sdR−b1−00050939.fit
BLACK = Final chisq extraction
BLUE = Initial+scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

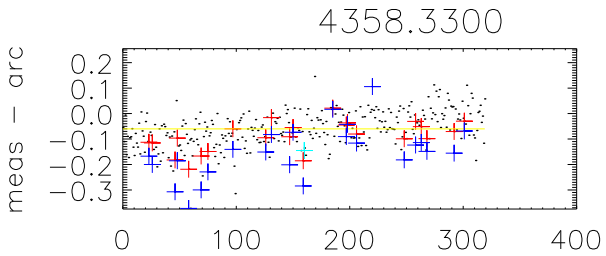

4046.5600
off: −0.33
sig: 0.049
4358.3300
off: −0.16
sig: 0.016
5460.9400
off: 0.10
sig: 0.014
5577.3390
off: 0.09
sig: 0.003
5889.9500
off: 0.26
sig: 0.010
5895.9240
off: 0.24
sig: 0.013

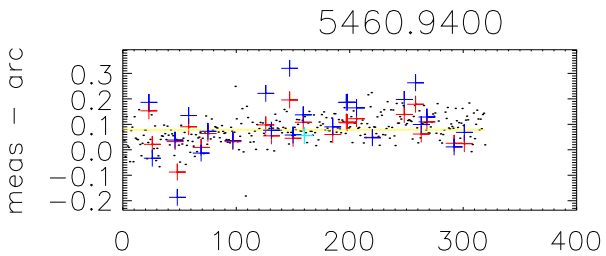

shift(pix)=−0.029
err(pix)= 0.047
oldshift(pix)=−0.326
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

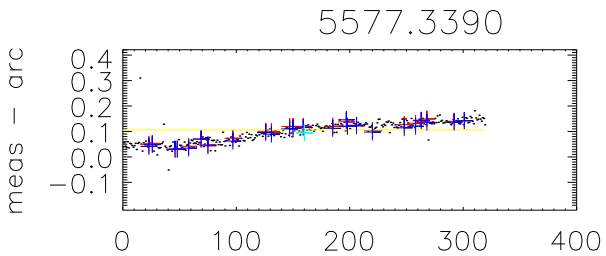

shift(pix)=−0.145
err(pix)= 0.017
oldshift(pix)=−0.161
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

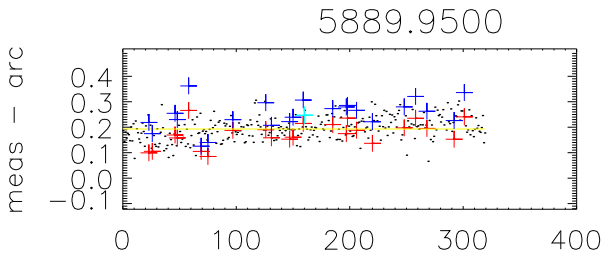

shift(pix)= 0.056
err(pix)= 0.015
oldshift(pix)= 0.103
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

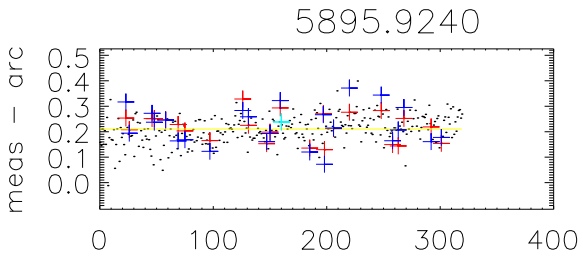

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

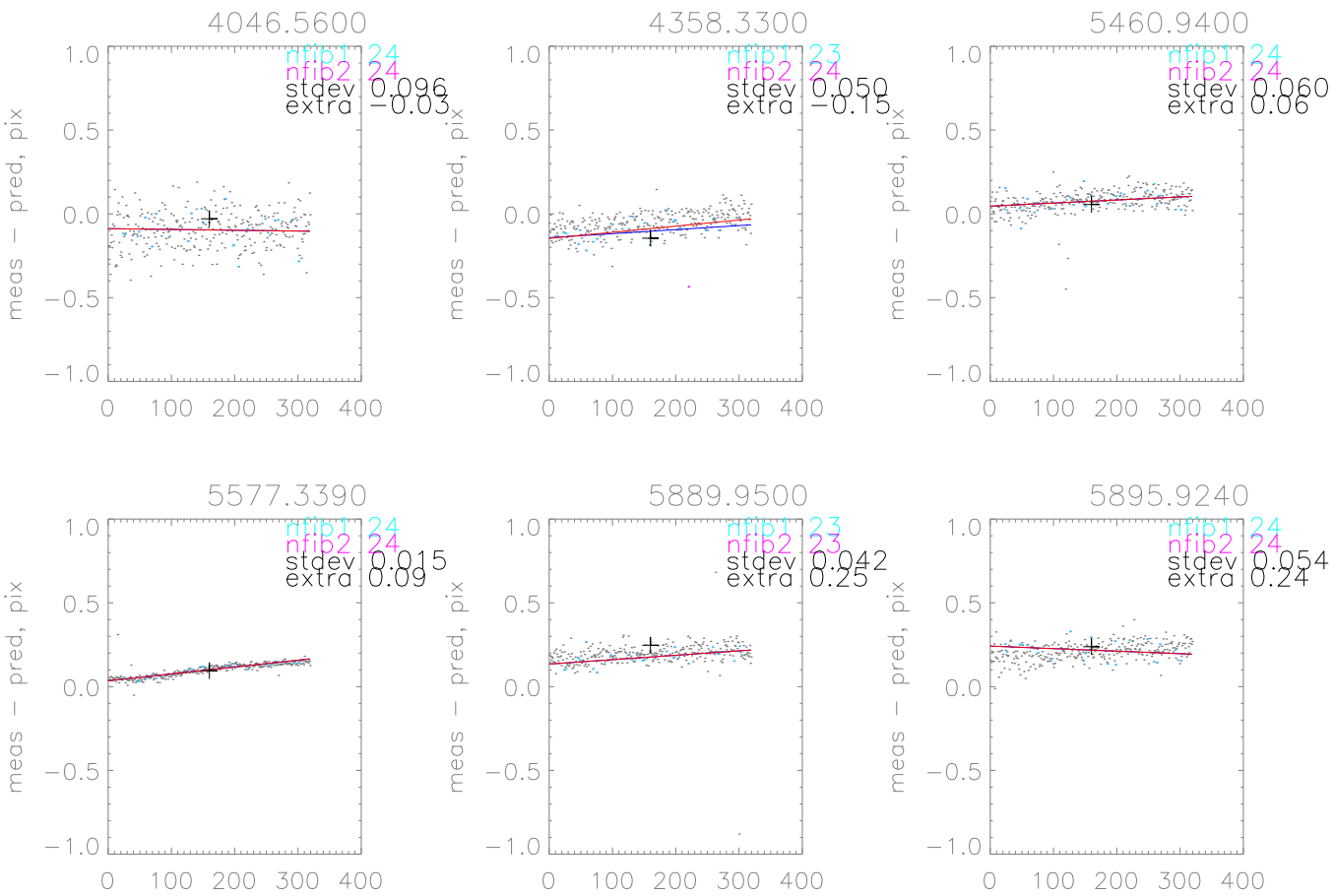

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

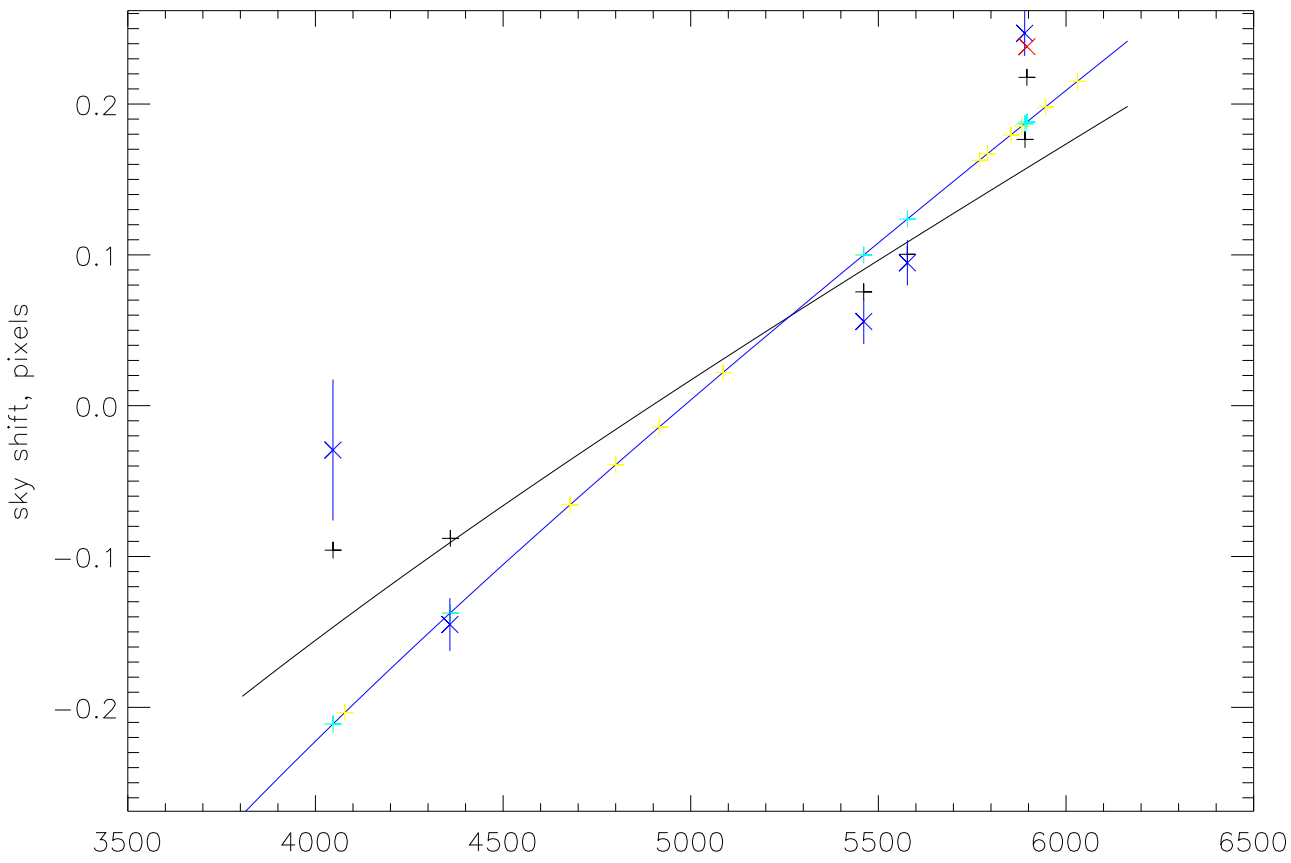

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

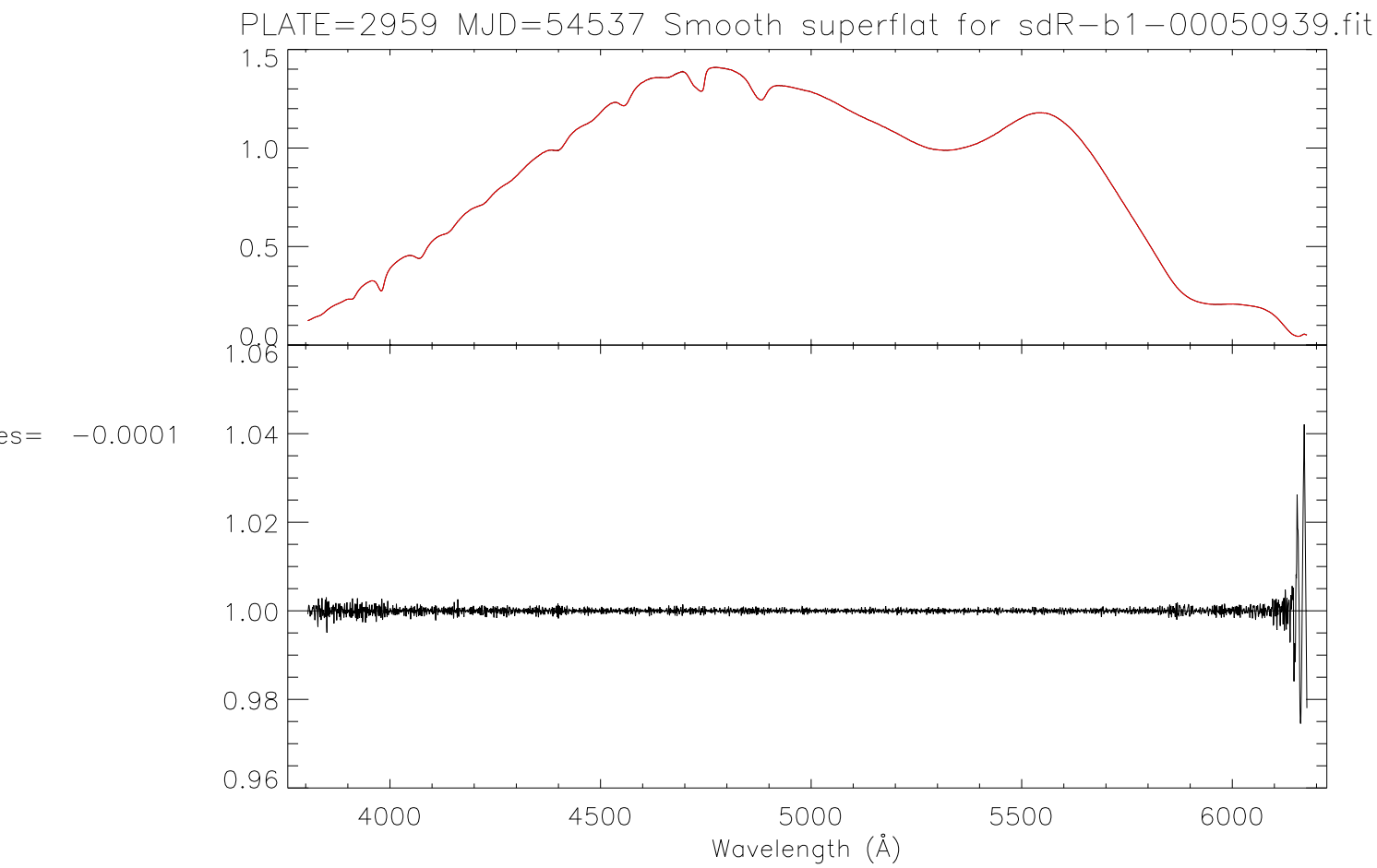

5577.3390
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

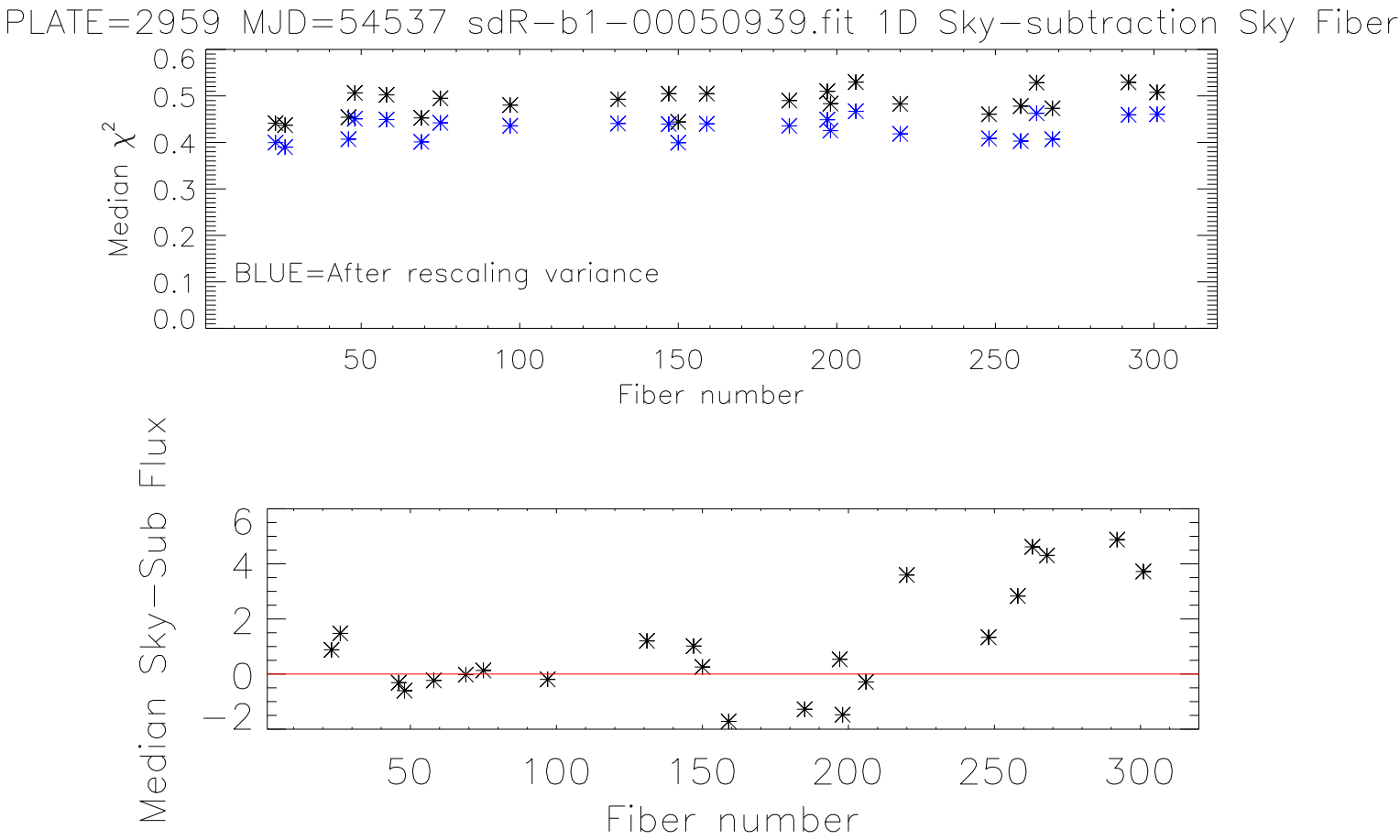

5895.9240
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

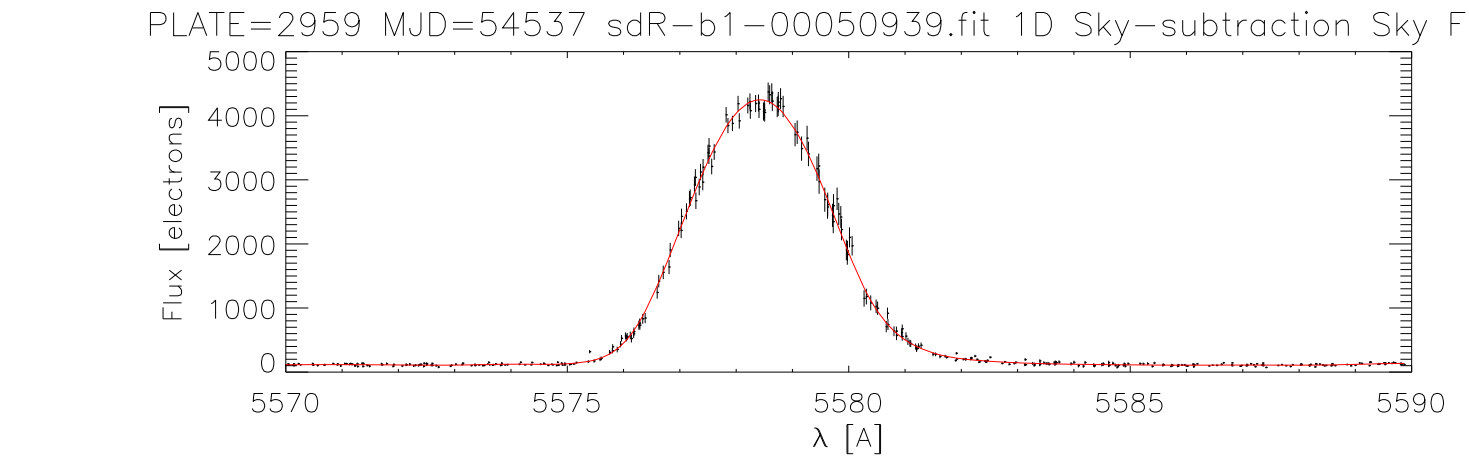

4046.5600
nfib1 24
nfib2 24
stdev 0.096
extra −0.03
4358.3300
nfib1 23
nfib2 24
stdev 0.050
extra −0.15
5460.9400
nfib1 24
nfib2 24
stdev 0.060
extra 0.06
5577.3390
nfib1 24
nfib2 24
stdev 0.015
extra 0.09
5889.9500
nfib1 23
nfib2 23
stdev 0.042
extra 0.25
5895.9240
nfib1 24
nfib2 24
stdev 0.054
extra 0.24
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

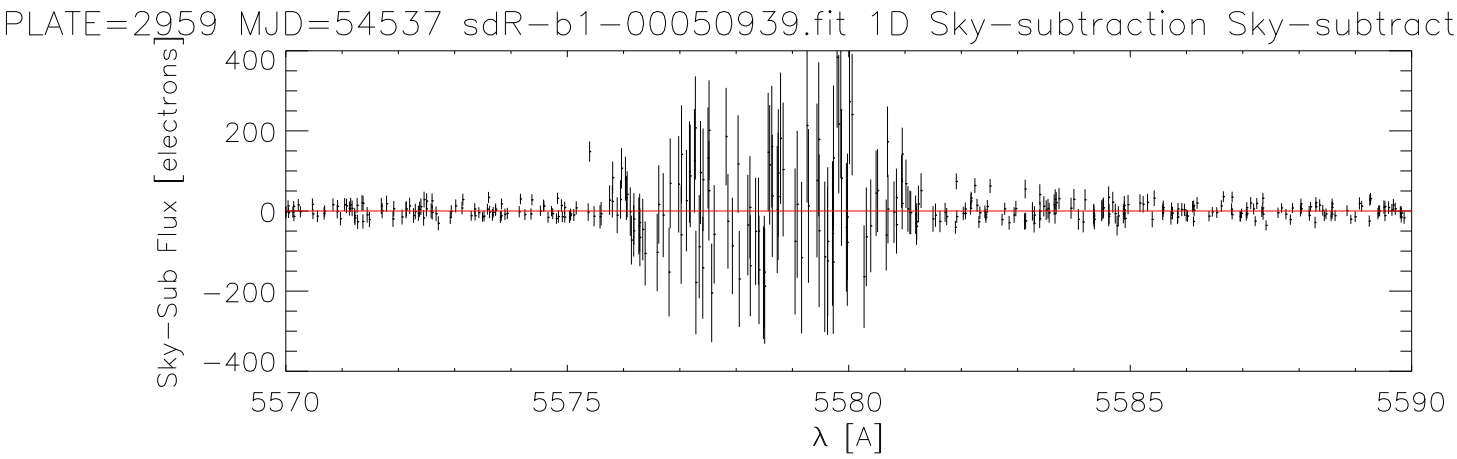

sky shift, pixels
0.2
0.1
0.0
−0.1
−0.2
3500
4000
4500
5000
5500
6000
6500

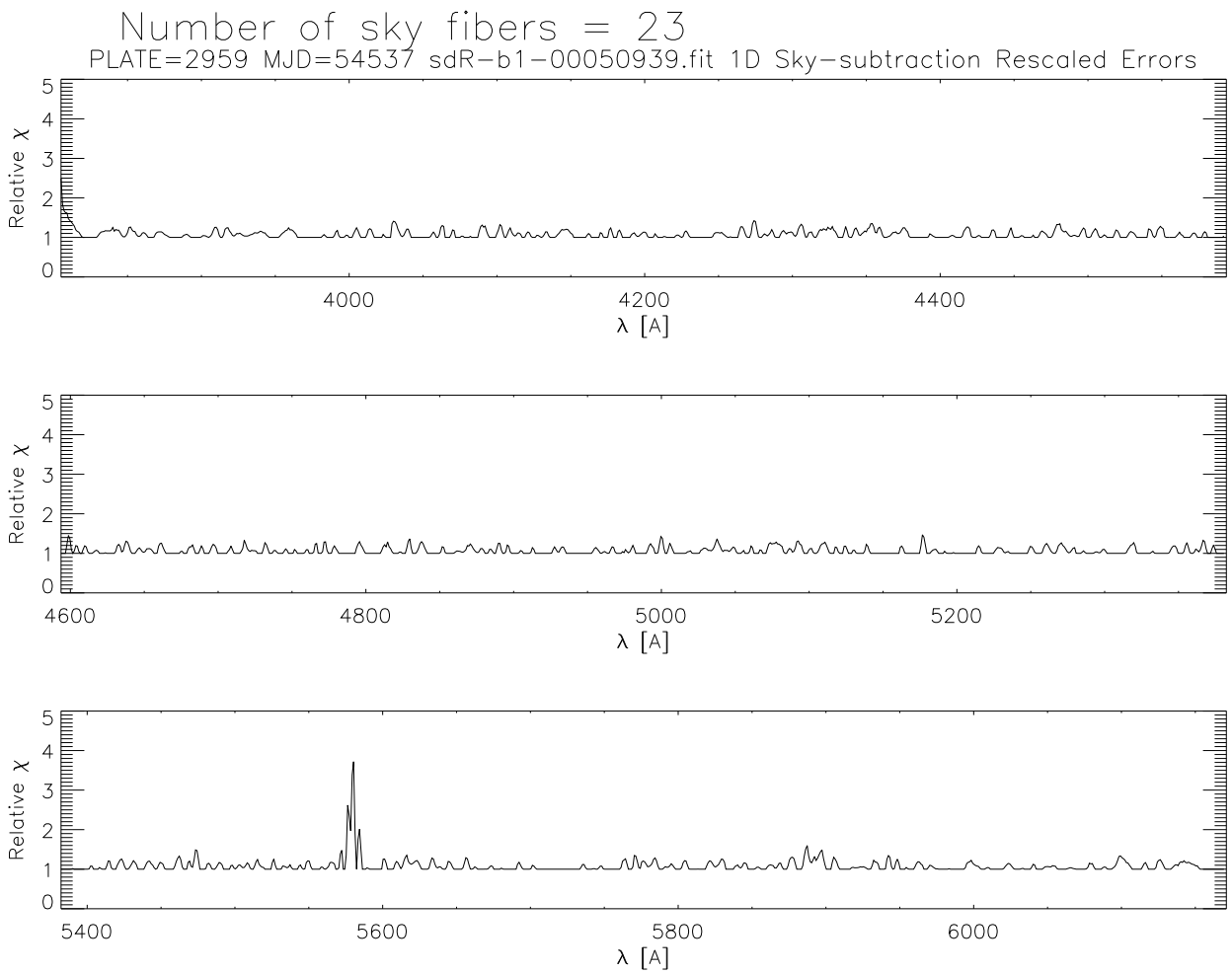

PLATE=2959 MJD=54537 Smooth superflat for sdR-b1-00050939.fit
1.5
1.0
0.5
0.0
1.06
1.04
1.02
1.00
0.98
0.96
4000
4500
5000
5500
6000
Wavelength (Å)

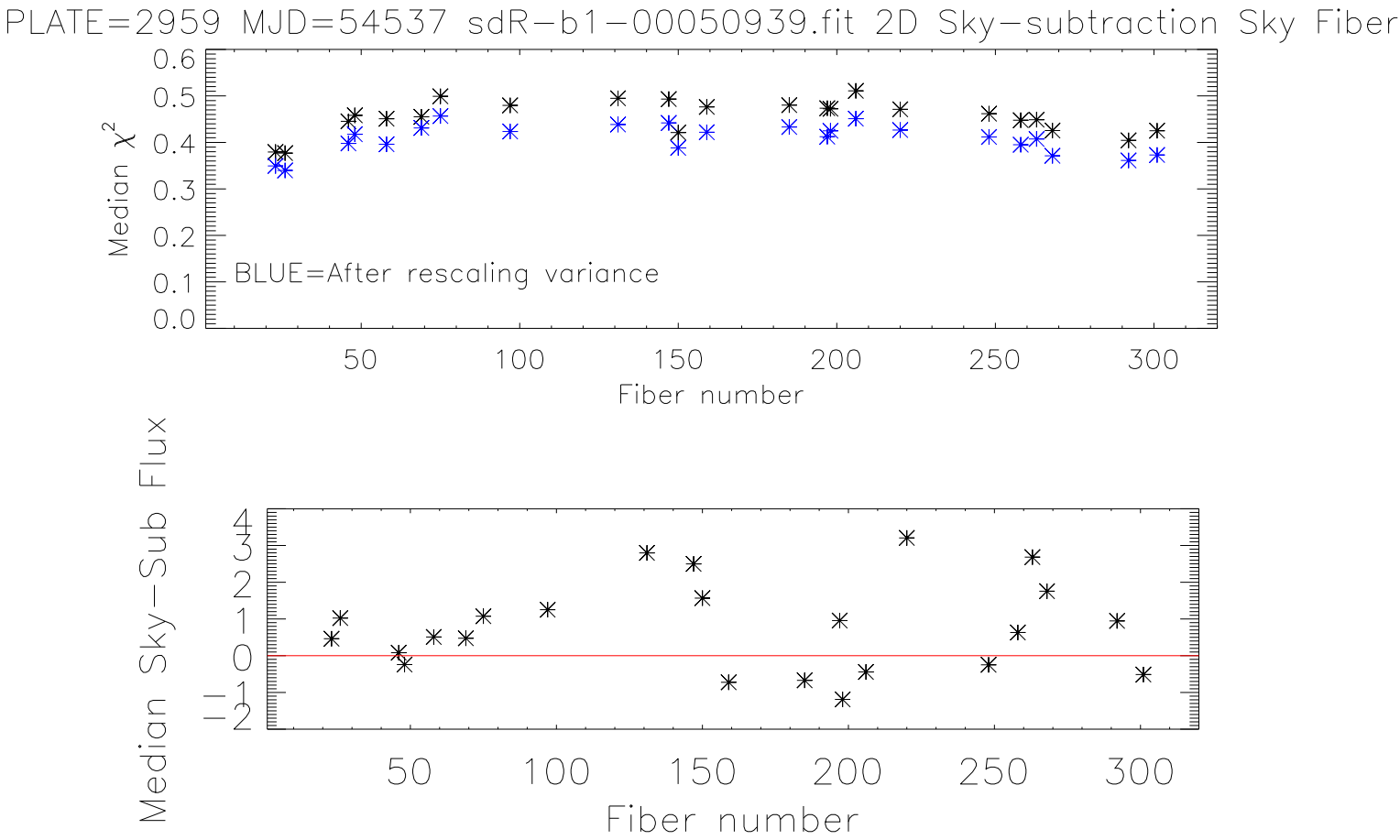
es= −0.0001

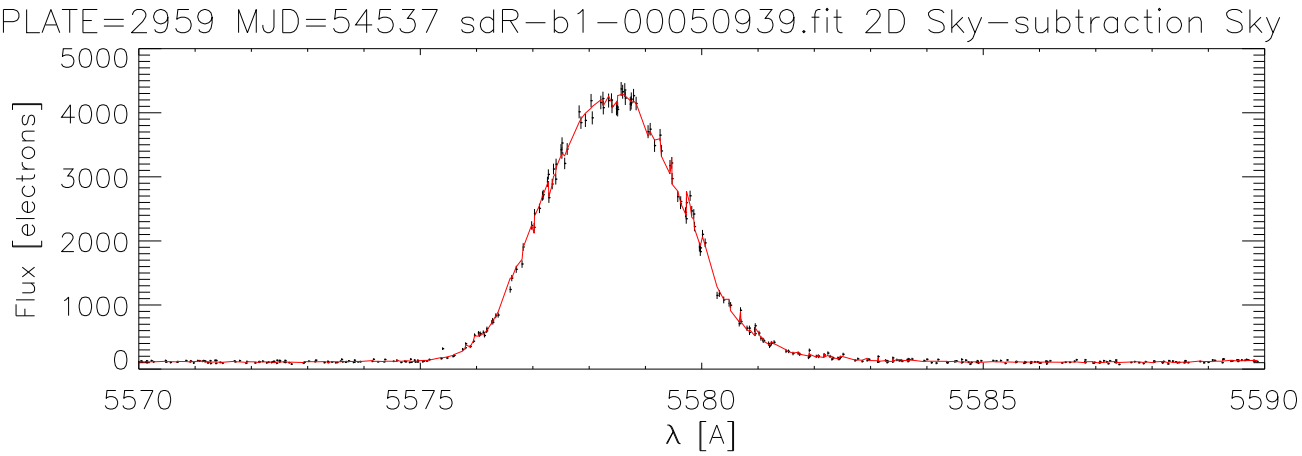

PLATE=2959 MJD=54537 sdR-b1-00050939.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

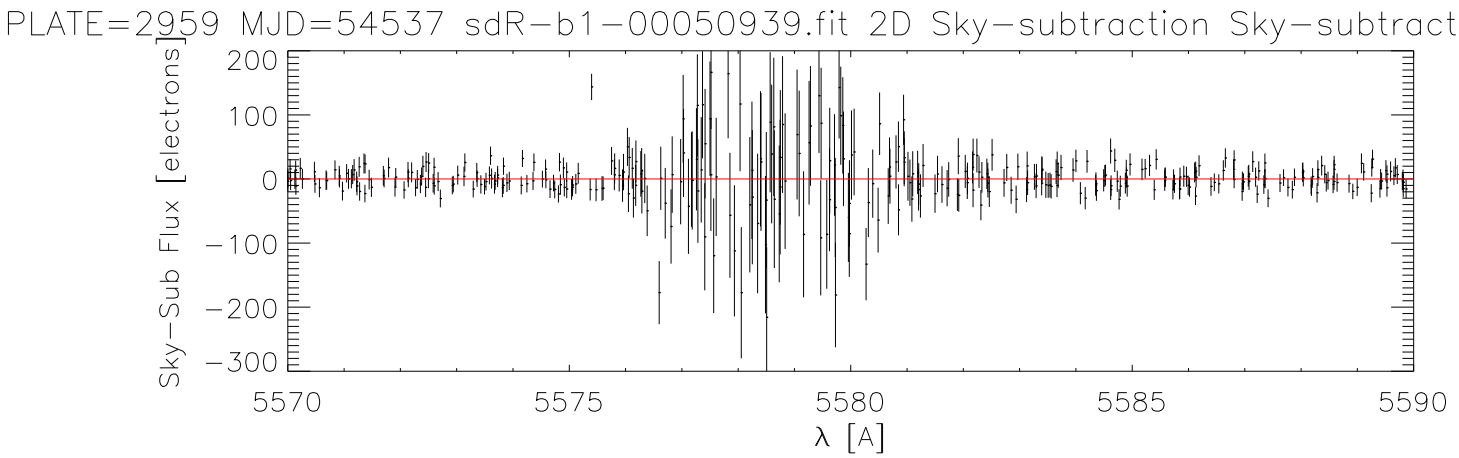

PLATE=2959 MJD=54537 sdR-b1-00050939.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

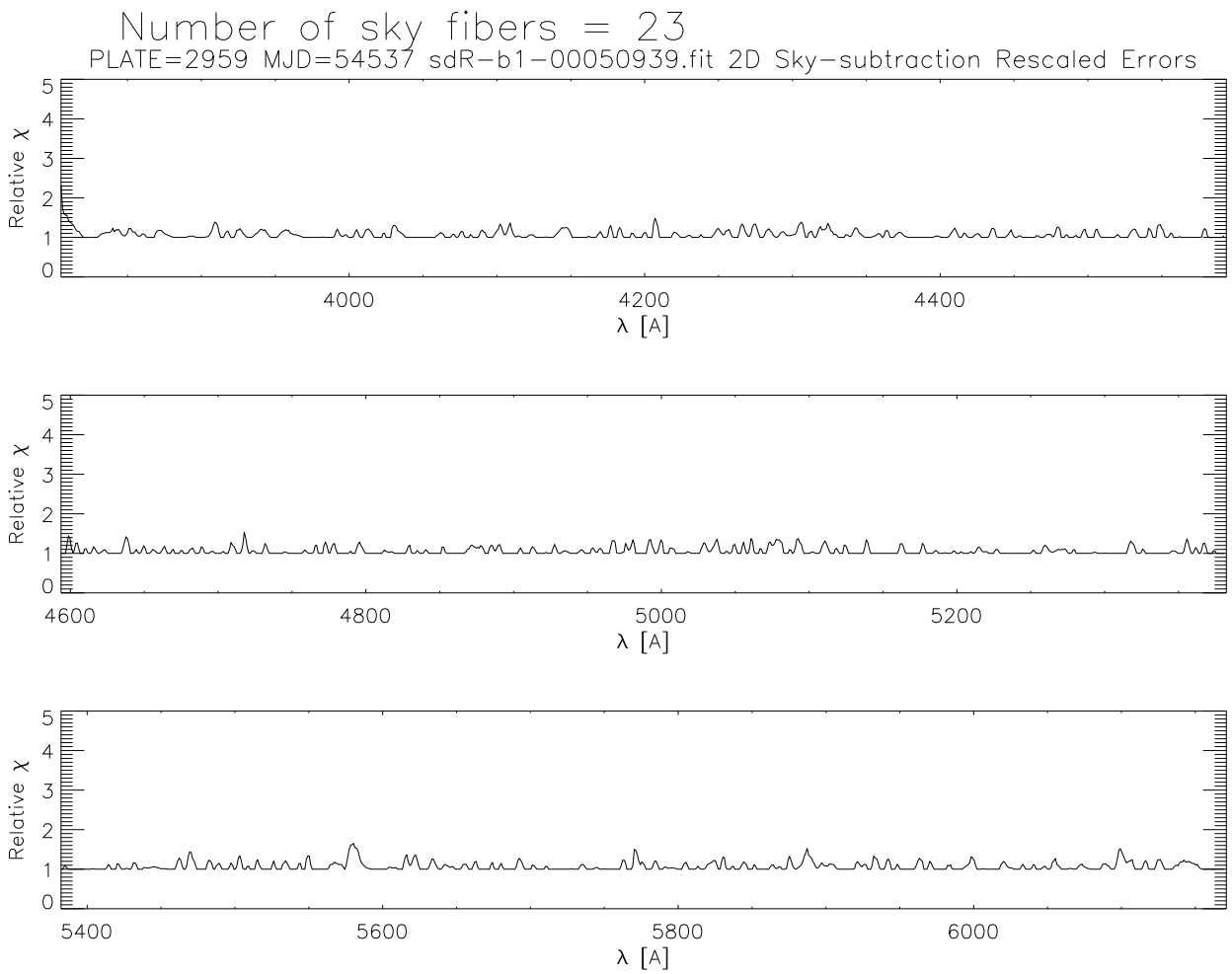

PLATE=2959 MJD=54537 sdR-b1-00050939.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

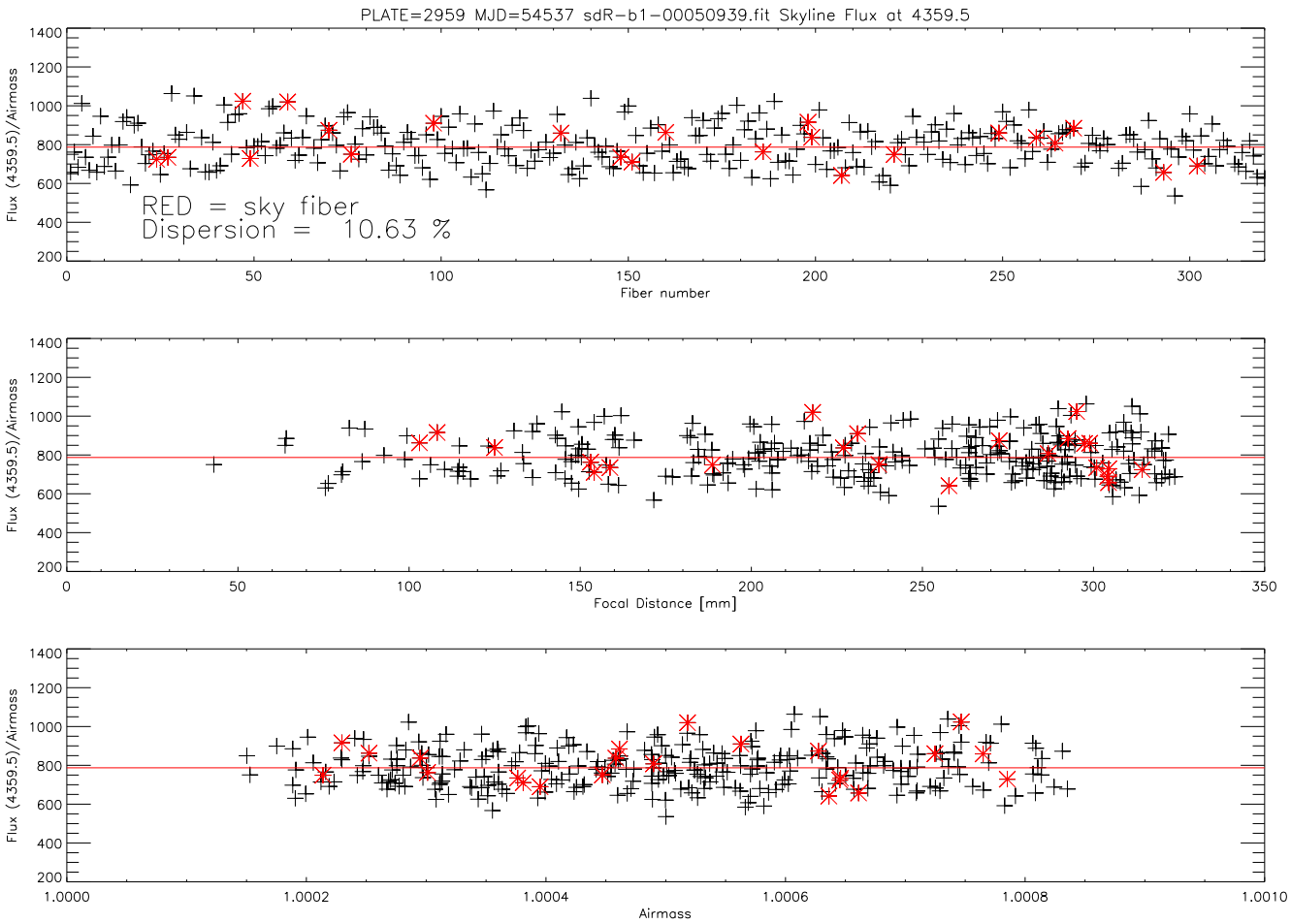

Number of sky fibers = 23
PLATE=2959 MJD=54537 sdR-b1-00050939.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

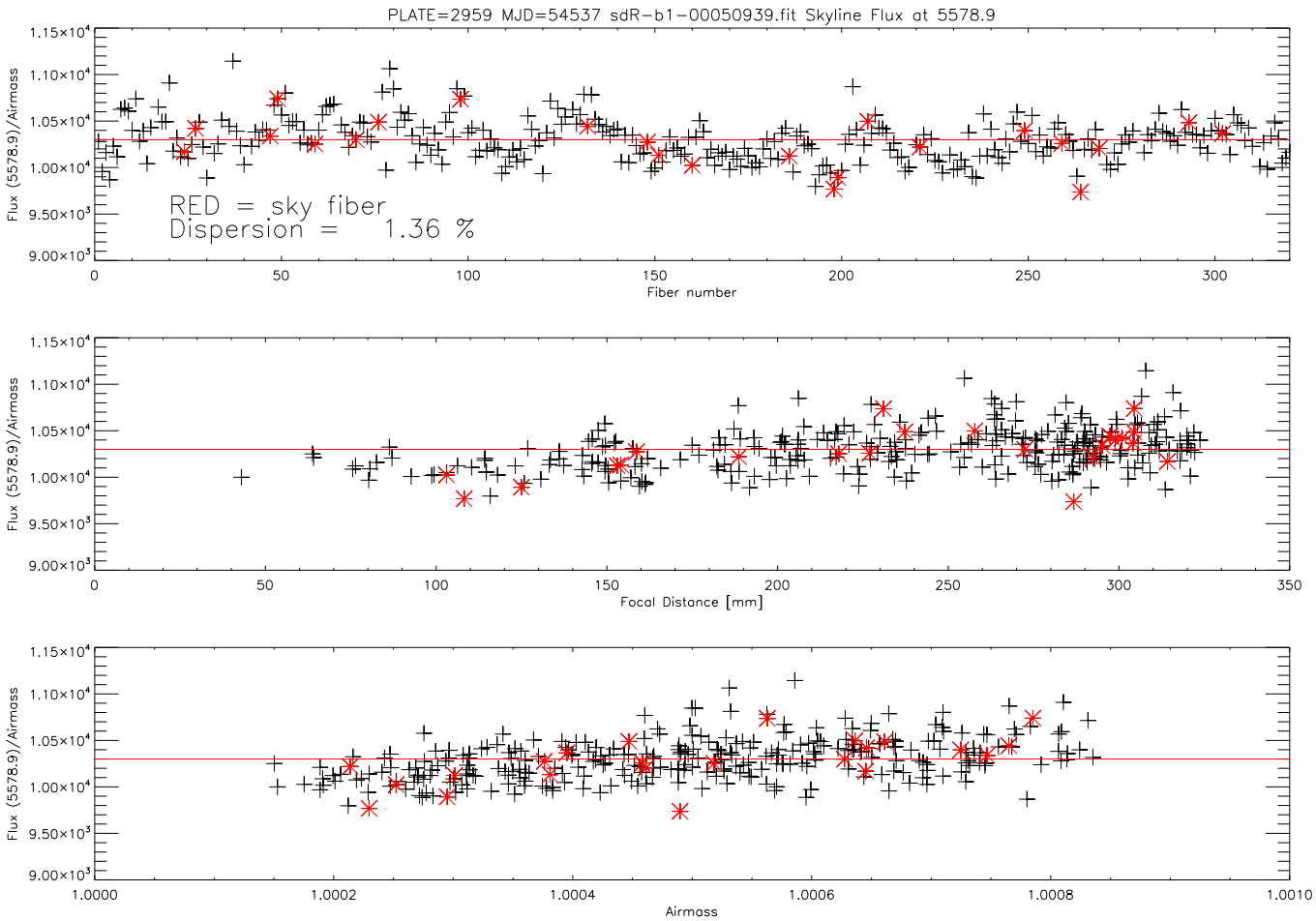

PLATE=2959 MJD=54537 sdR-b1-00050939.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
4
50
100
150
200
250
300
Fiber number

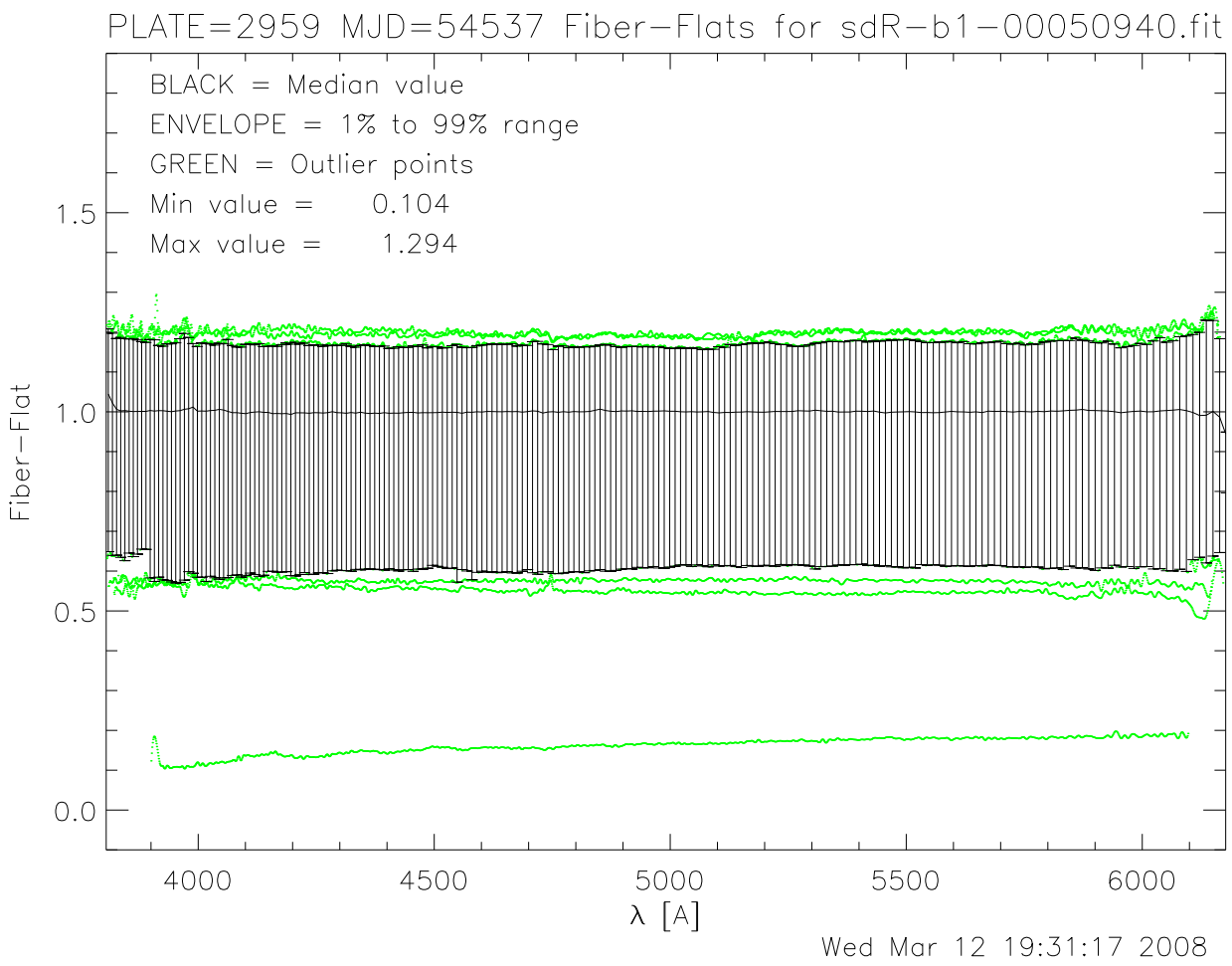

PLATE=2959 MJD=54537 sdR-b1-00050939.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

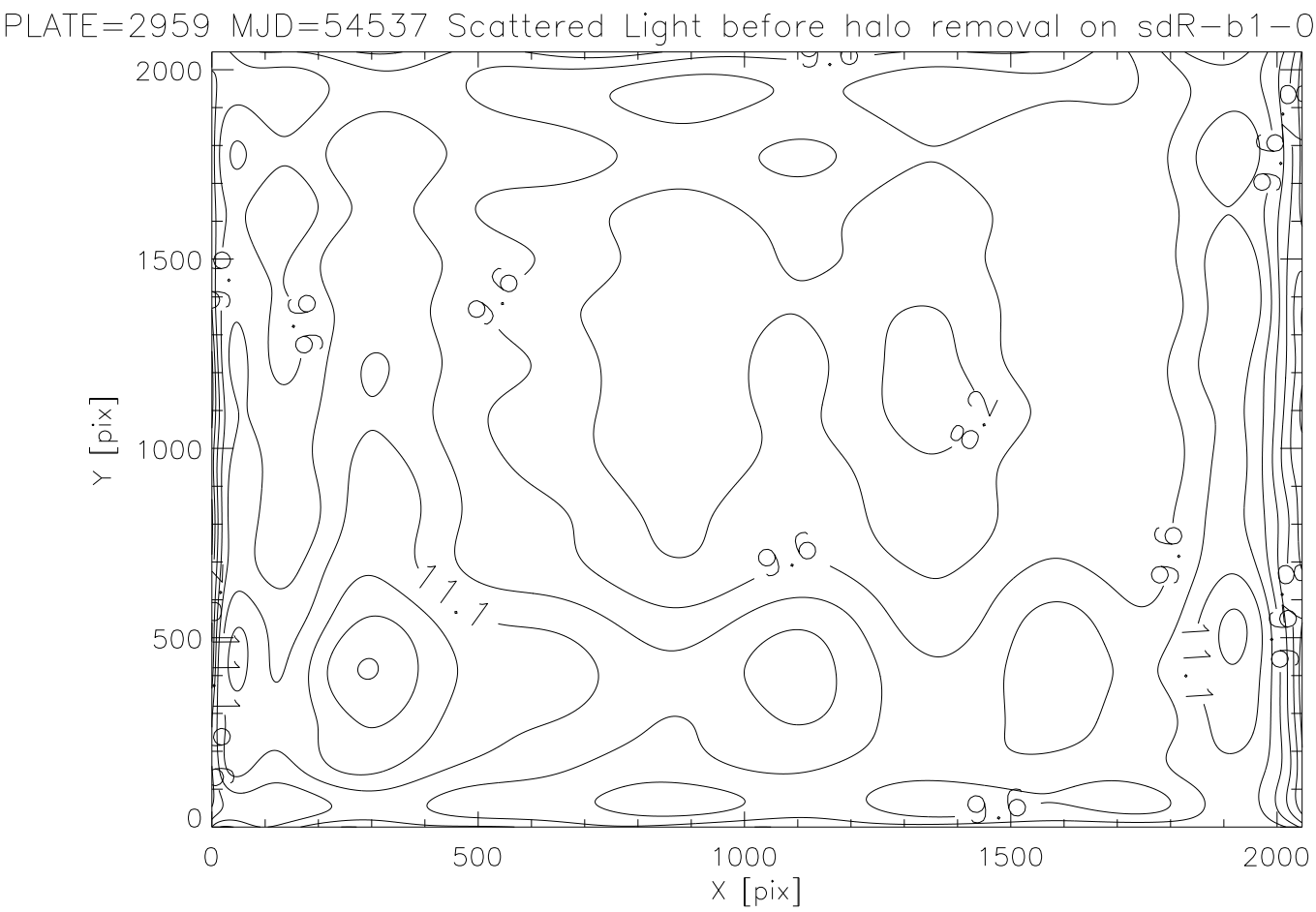

PLATE=2959 MJD=54537 sdR-b1-00050939.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

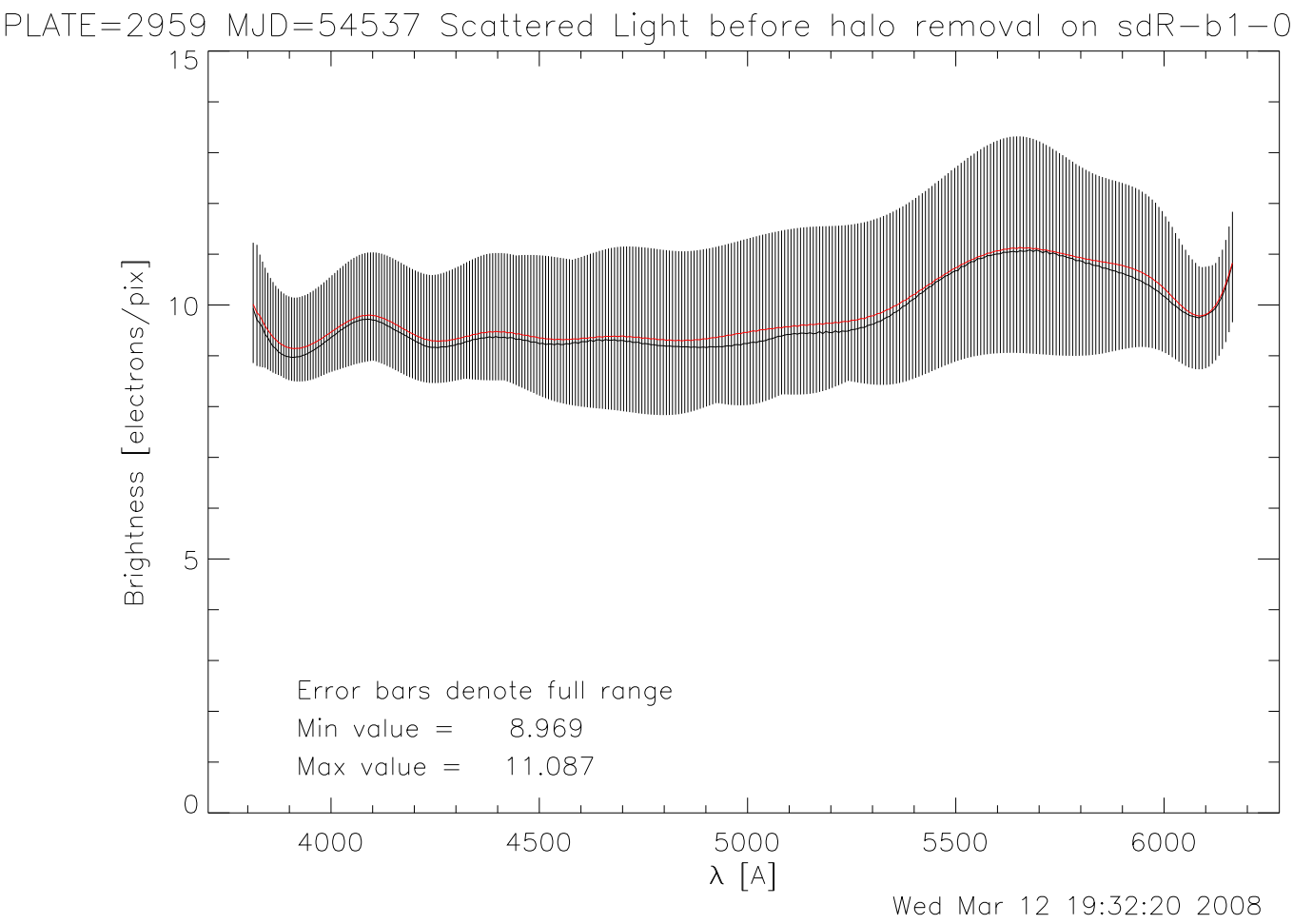

Number of sky fibers = 23
PLATE=2959 MJD=54537 sdR-b1-00050939.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

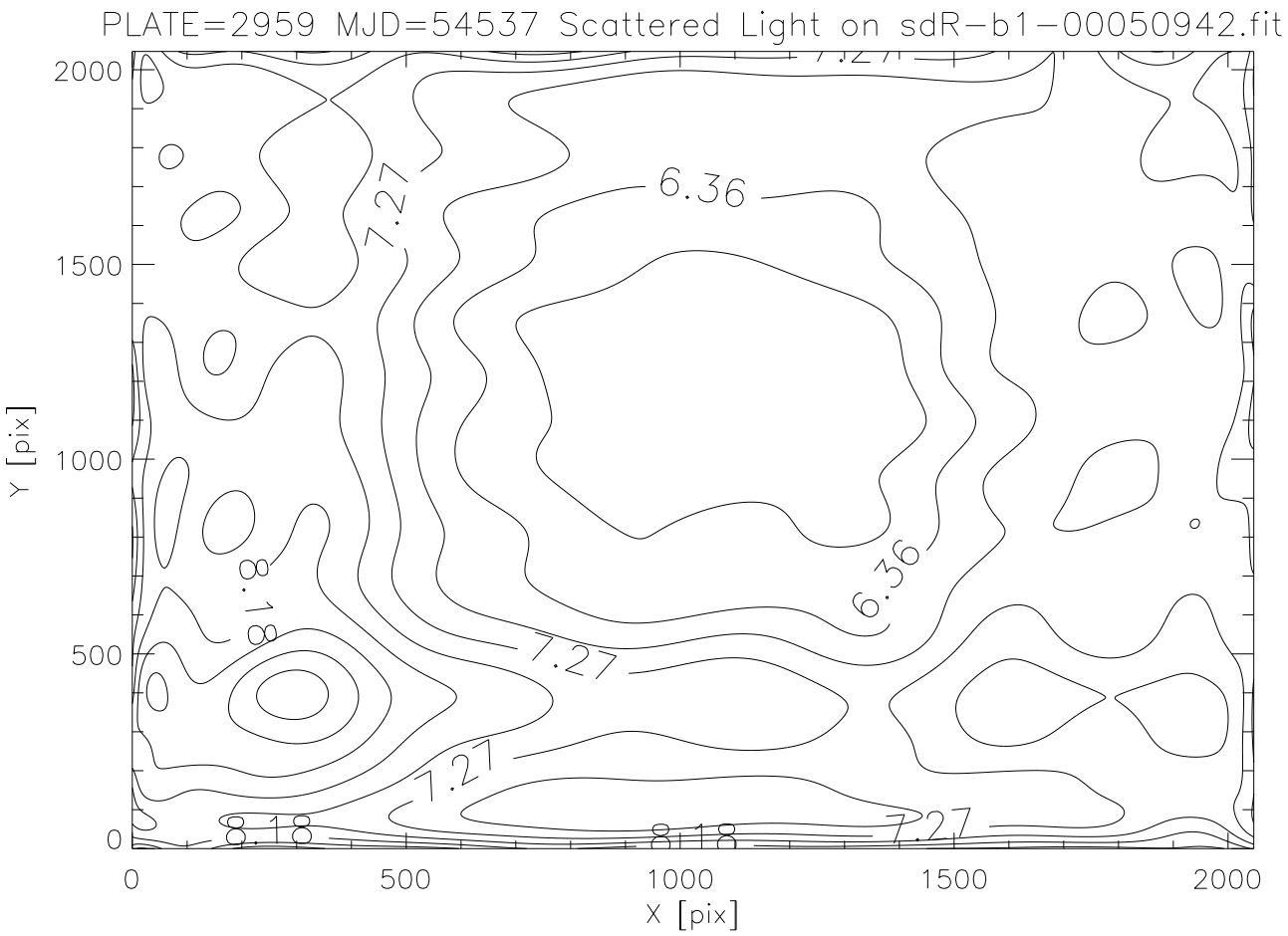

PLATE=2959 MJD=54537 sdR-b1-00050939.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 10.63 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

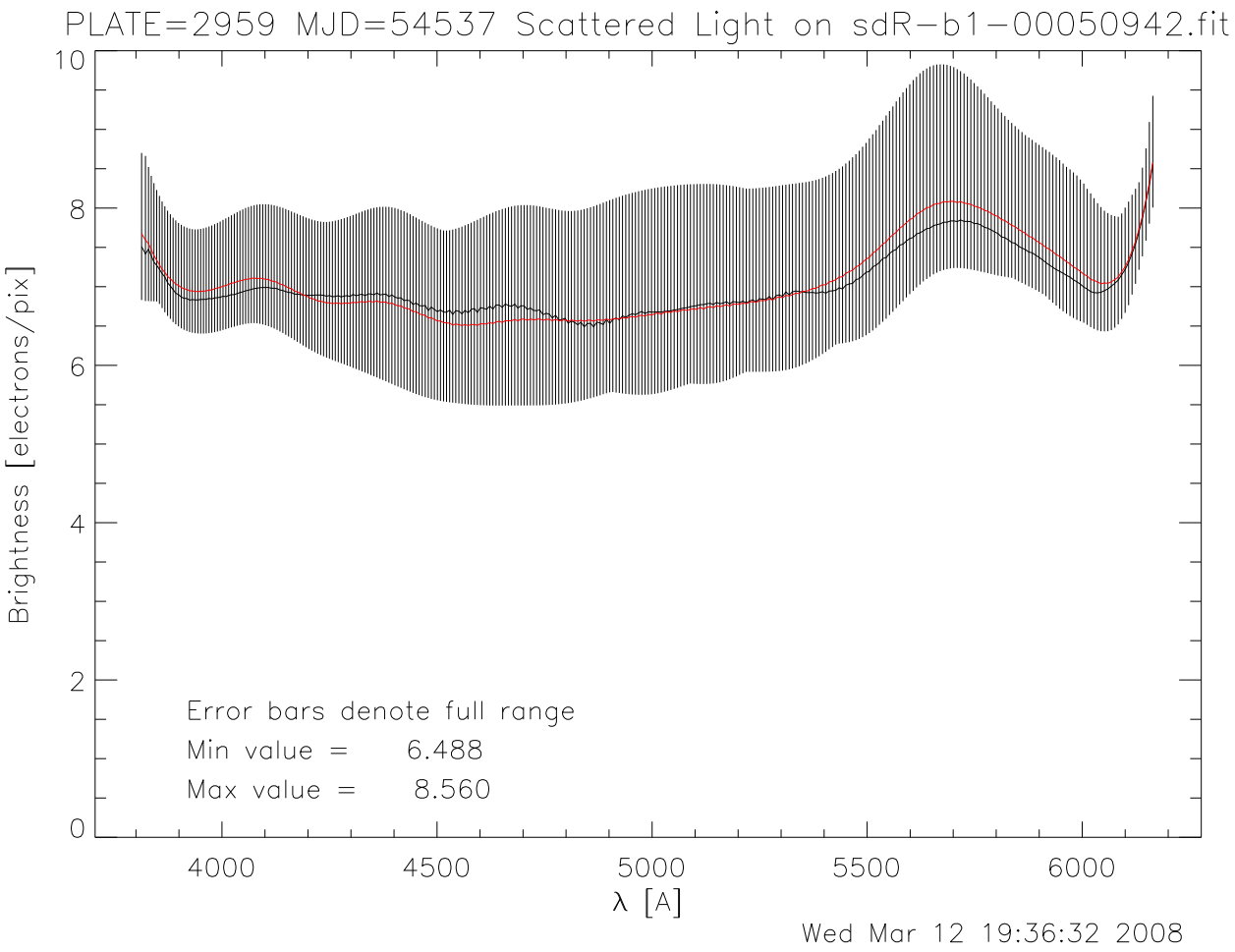

PLATE=2959 MJD=54537 sdR-b1-00050939.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.36 %
Fiber number
Focal Distance [mm]
Airmass

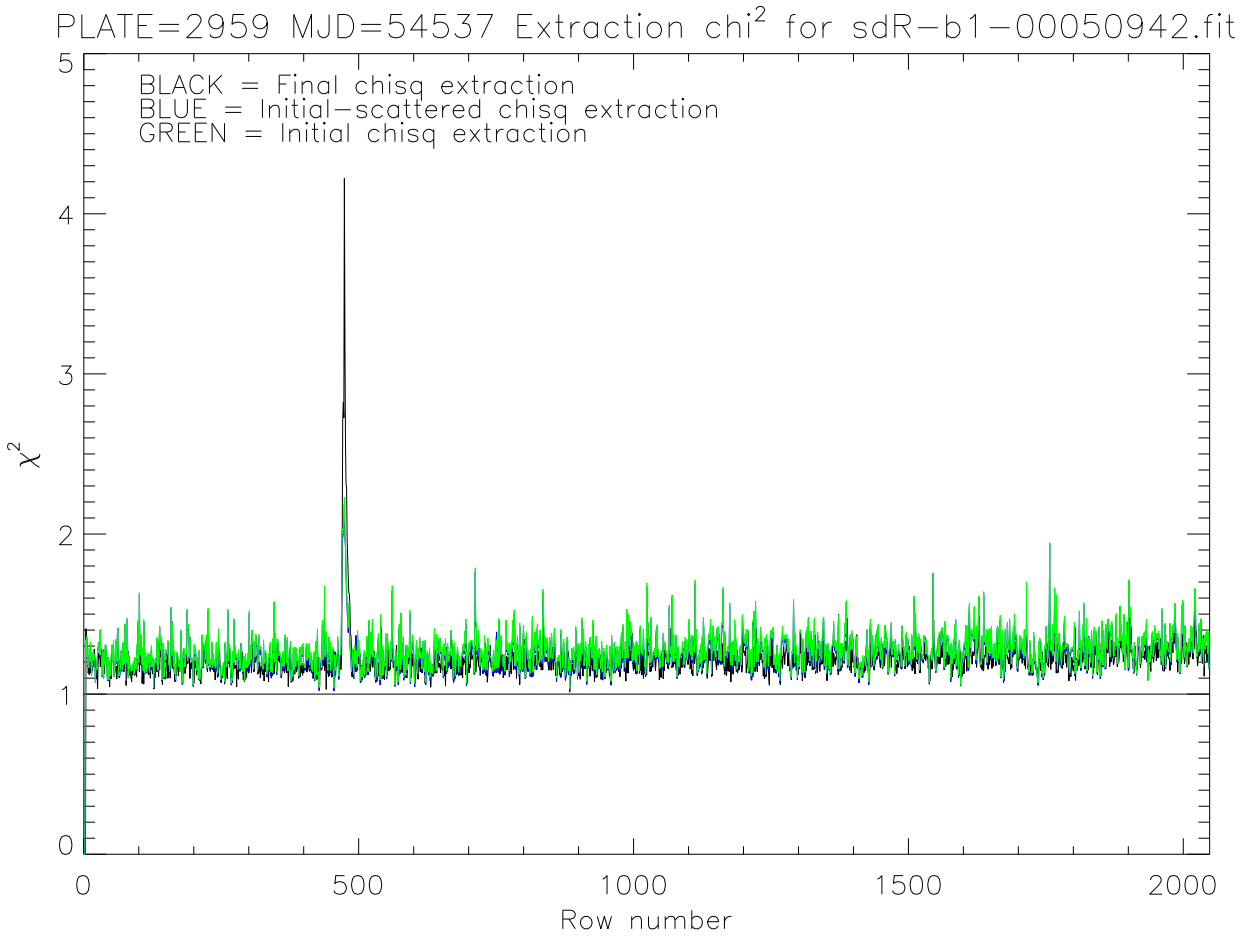

PLATE=2959 MJD=54537 Fiber−Flats for sdR−b1−00050940.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.104
Max value = 1.294
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 19:31:17 2008

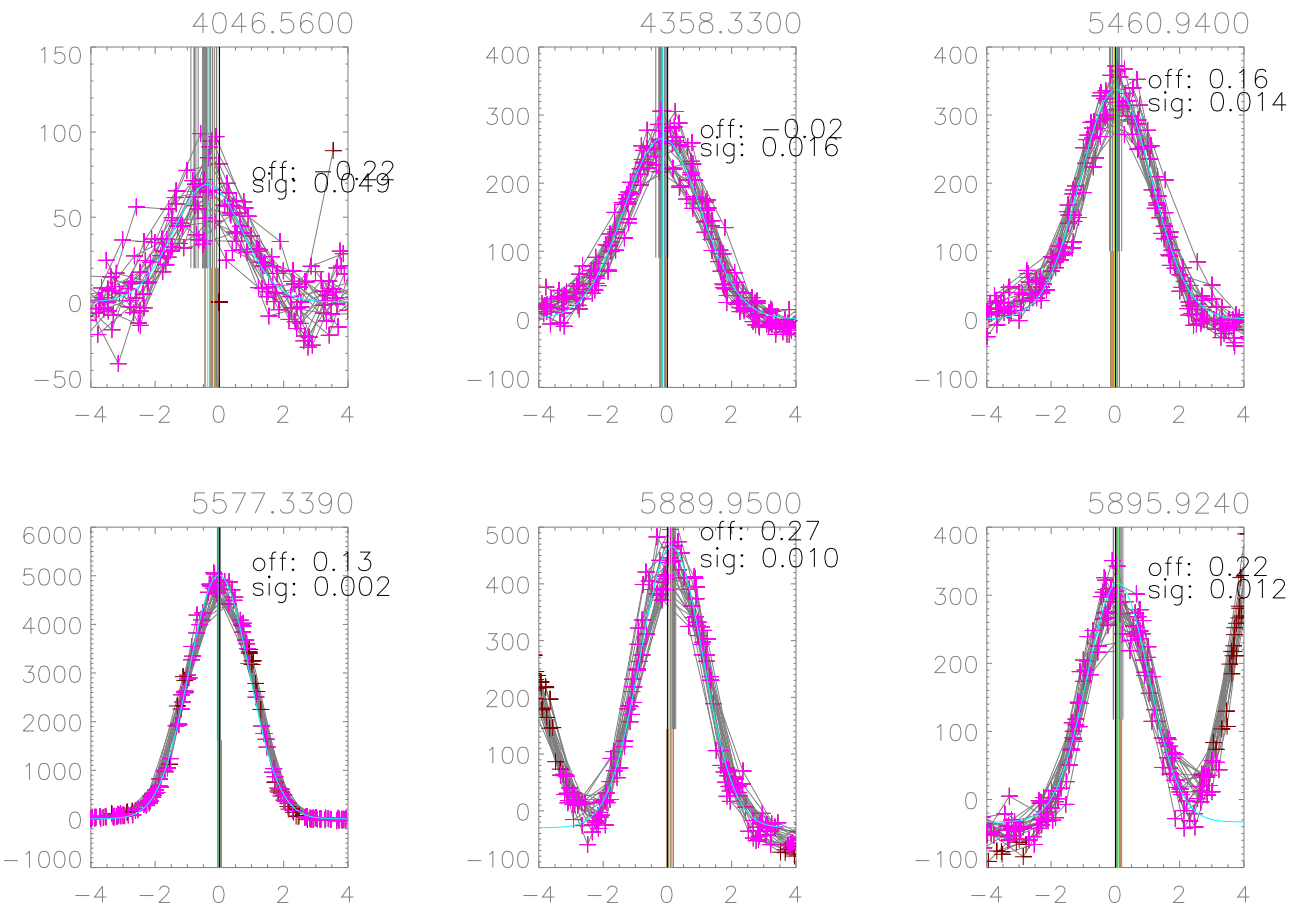

PLATE=2959 MJD=54537 Scattered Light before halo removal on sdR−b1−00050942.f
Y [pix]
X [pix]
0
500
1000
1500
2000
9.6
11.1
8.2

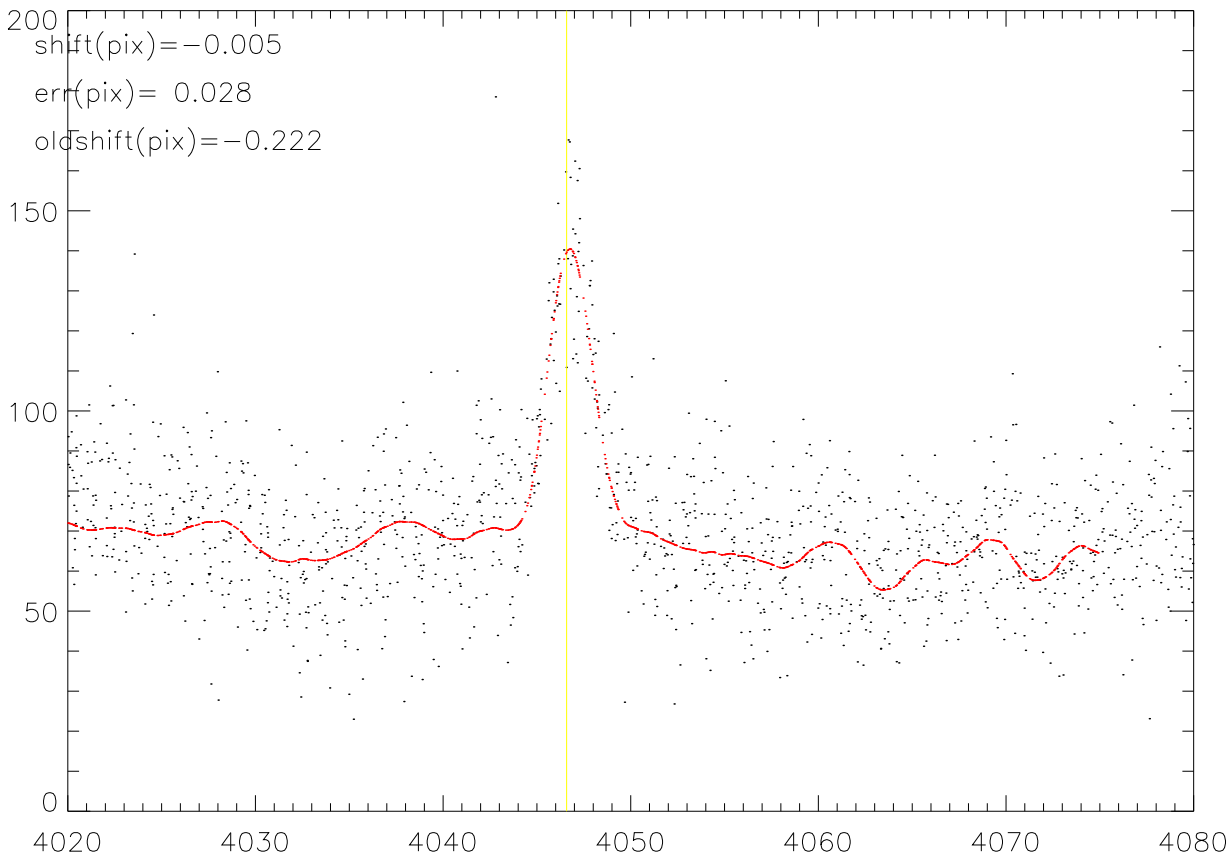

PLATE=2959 MJD=54537 Scattered Light before halo removal on sdR-b1-00050942.f
Brightness [electrons/pix]
15
10
5
0
Error bars denote full range
Min value = 8.969
Max value = 11.087
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 19:32:20 2008

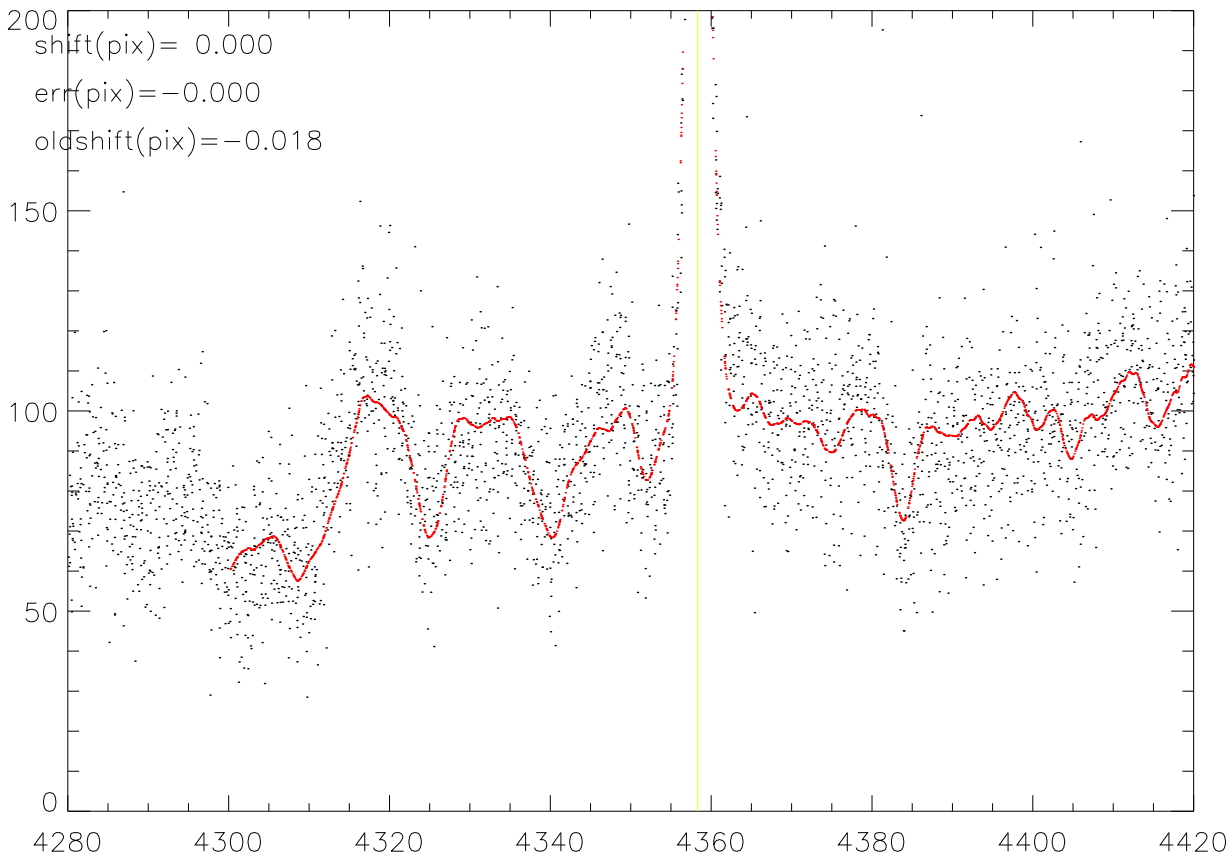

PLATE=2959 MJD=54537 Scattered Light on sdR-b1-00050942.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
6.36
7.27
8.18

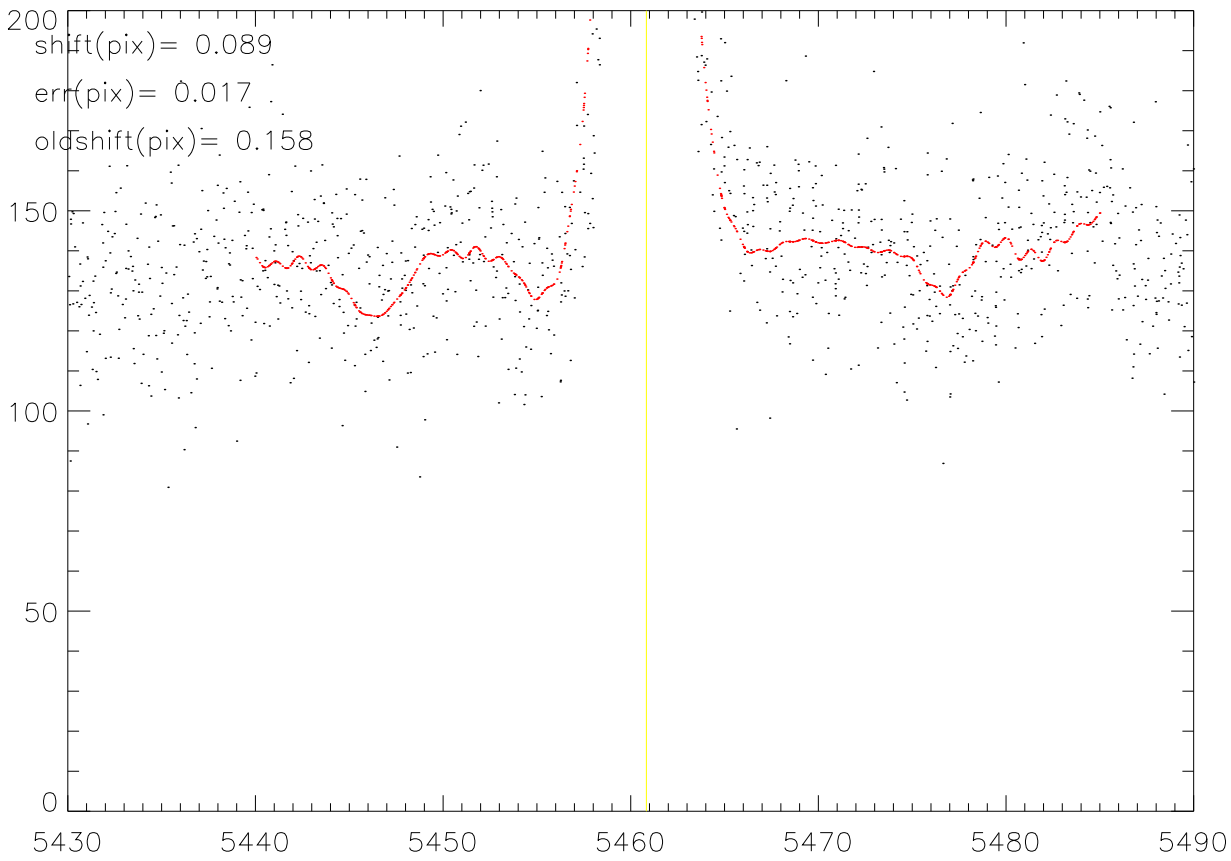

PLATE=2959 MJD=54537 Scattered Light on sdR-b1-00050942.fit
Brightness [electrons/pix]
10
8
6
4
2
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 6.488
Max value = 8.560
Wed Mar 12 19:36:32 2008

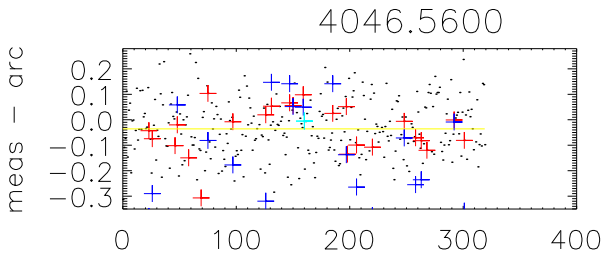

PLATE=2959 MJD=54537 Extraction chi^2 for sdR-b1-00050942.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

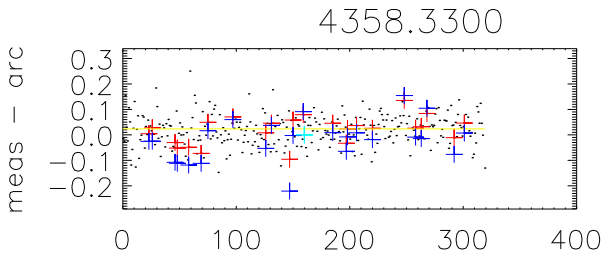

4046.5600
off: −0.22
sig: 0.049
4358.3300
off: −0.02
sig: 0.016
5460.9400
off: 0.16
sig: 0.014
5577.3390
off: 0.13
sig: 0.002
5889.9500
off: 0.27
sig: 0.010
5895.9240
off: 0.22
sig: 0.012

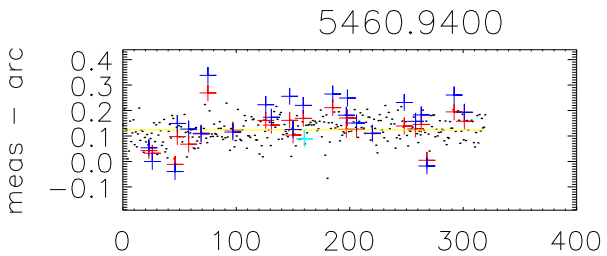

shift(pix)=−0.005
err(pix)= 0.028
oldshift(pix)=−0.222
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

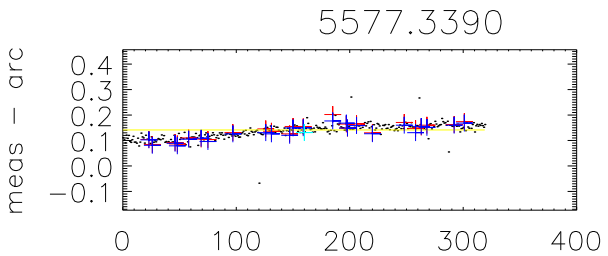

shift(pix)= 0.000
err(pix)=−0.000
oldshift(pix)=−0.018
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

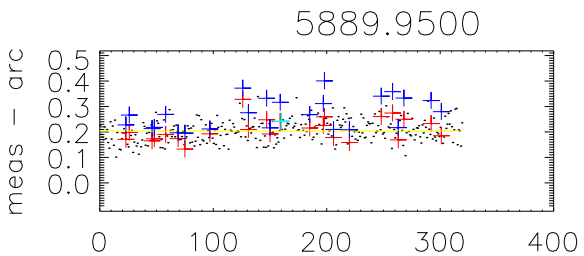

shift(pix)= 0.089
err(pix)= 0.017
oldshift(pix)= 0.158
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

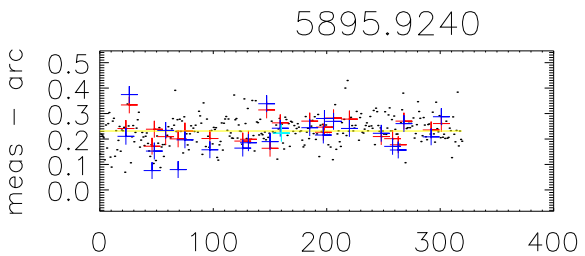

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

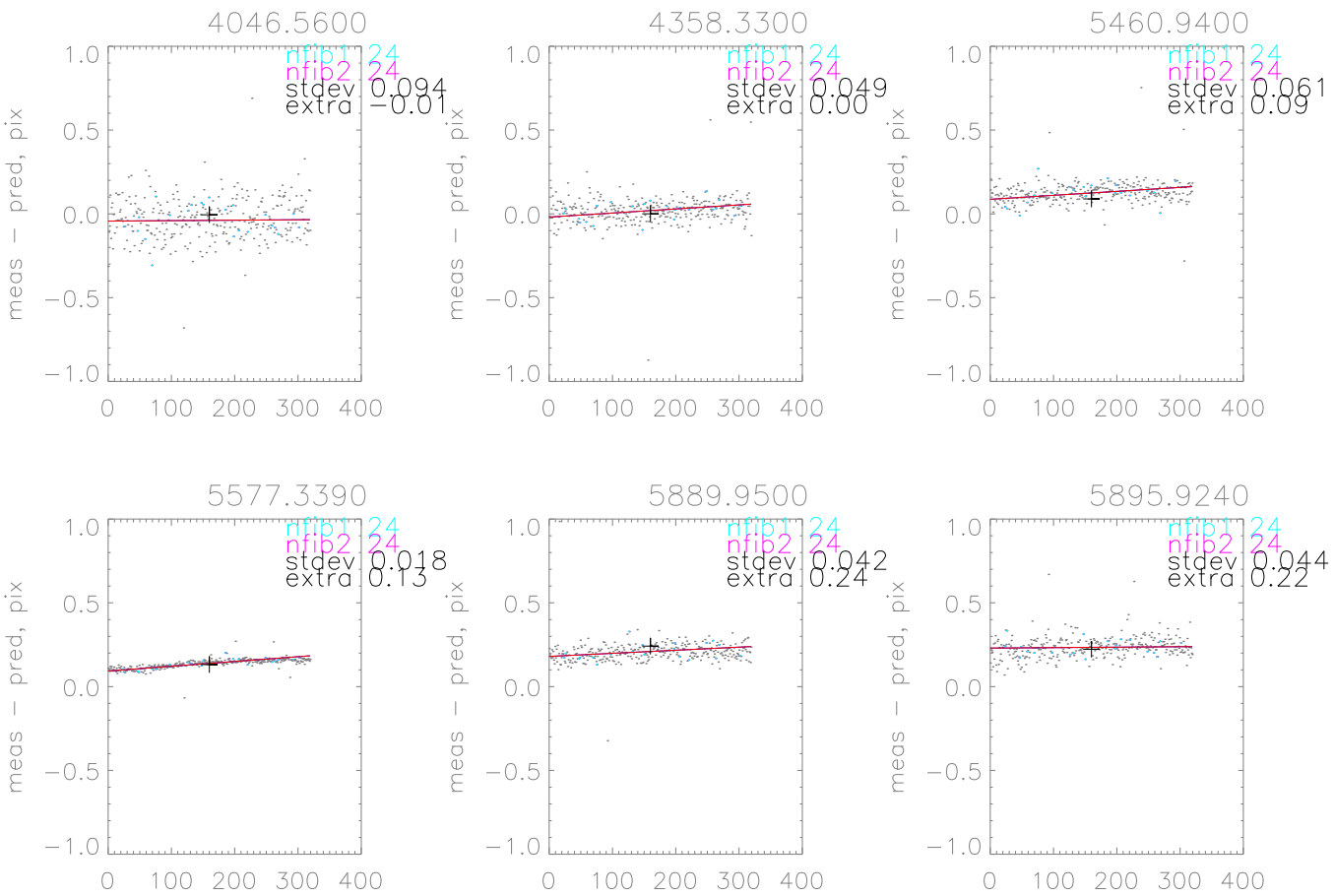

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

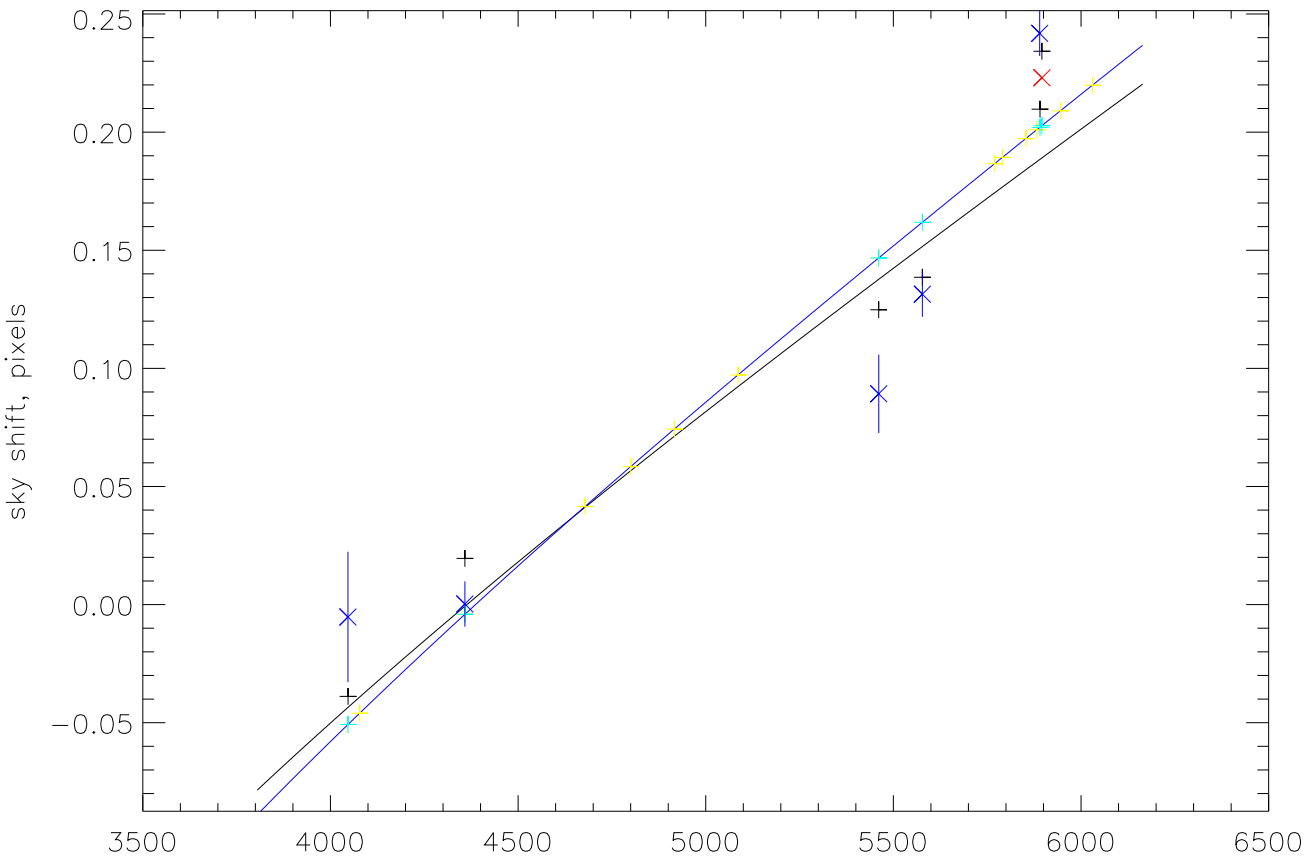

5460.9400
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

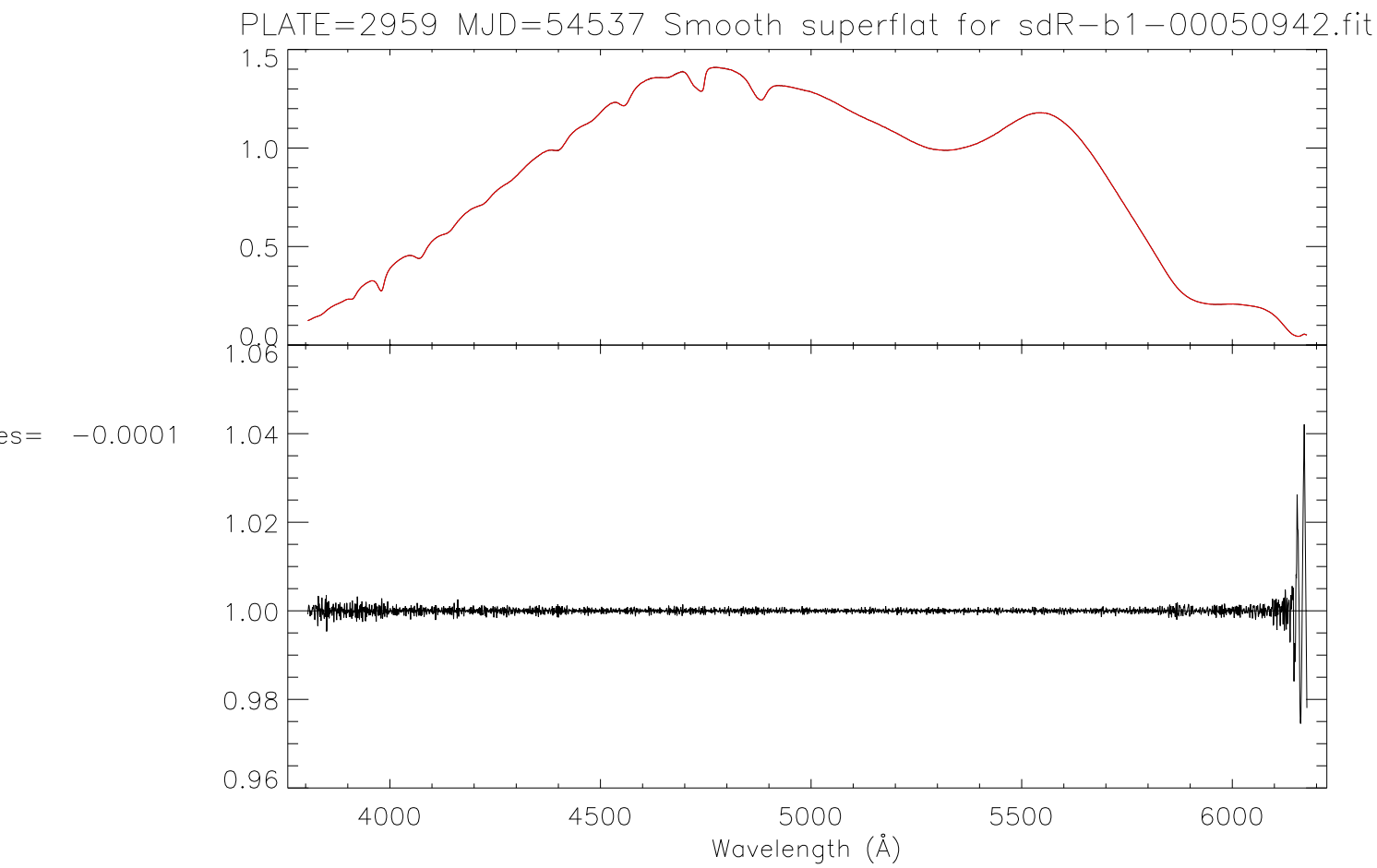

5577.3390
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

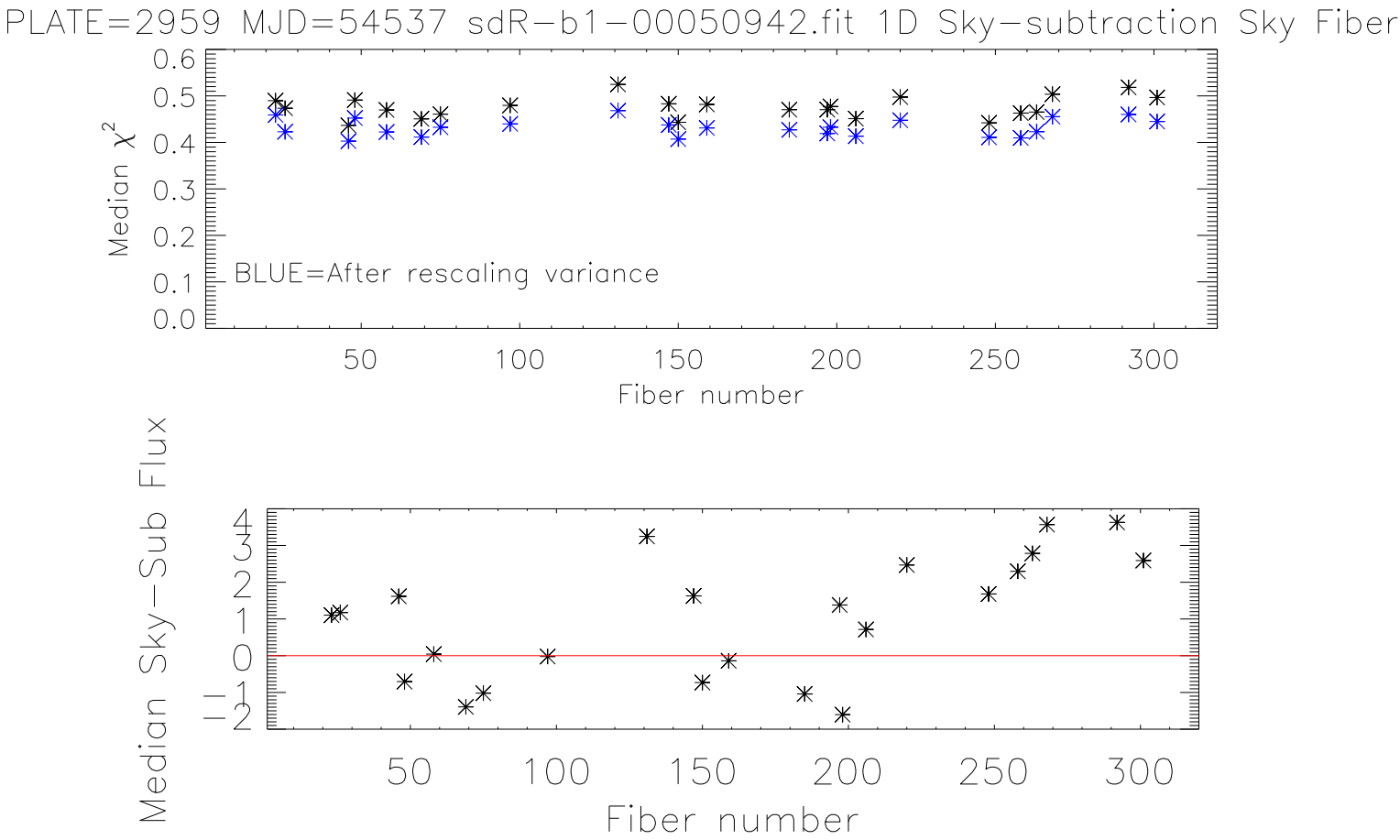

5895.9240
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

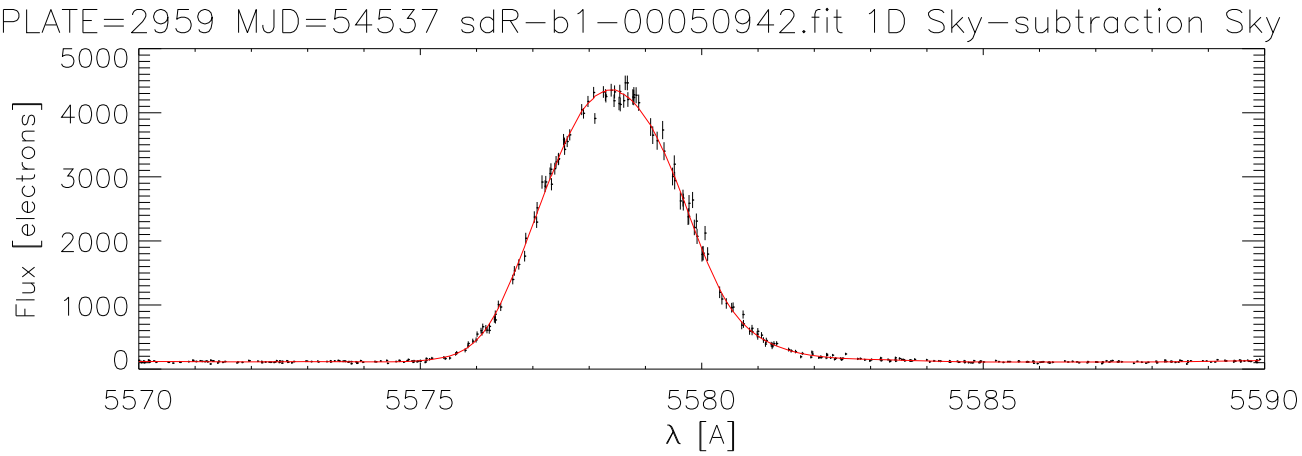

4046.5600
nfib1 24
nfib2 24
stdev 0.094
extra −0.01
4358.3300
nfib1 24
nfib2 24
stdev 0.049
extra 0.00
5460.9400
nfib1 24
nfib2 24
stdev 0.061
extra 0.09
5577.3390
nfib1 24
nfib2 24
stdev 0.018
extra 0.13
5889.9500
nfib1 24
nfib2 24
stdev 0.042
extra 0.24
5895.9240
nfib1 24
nfib2 24
stdev 0.044
extra 0.22
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

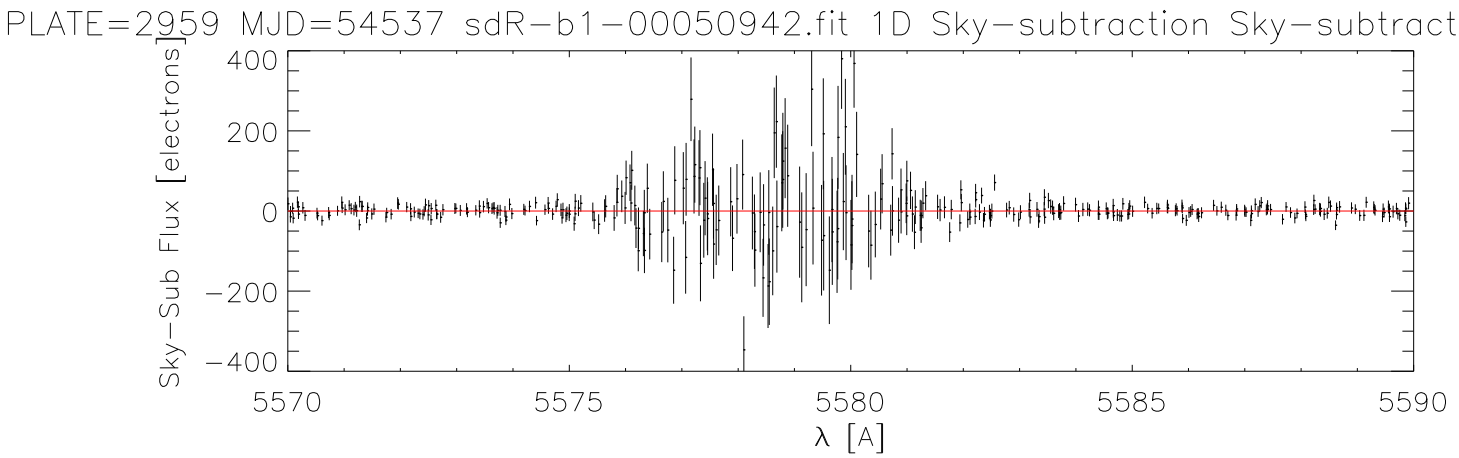

0.25
0.20
0.15
0.10
0.05
0.00
−0.05
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

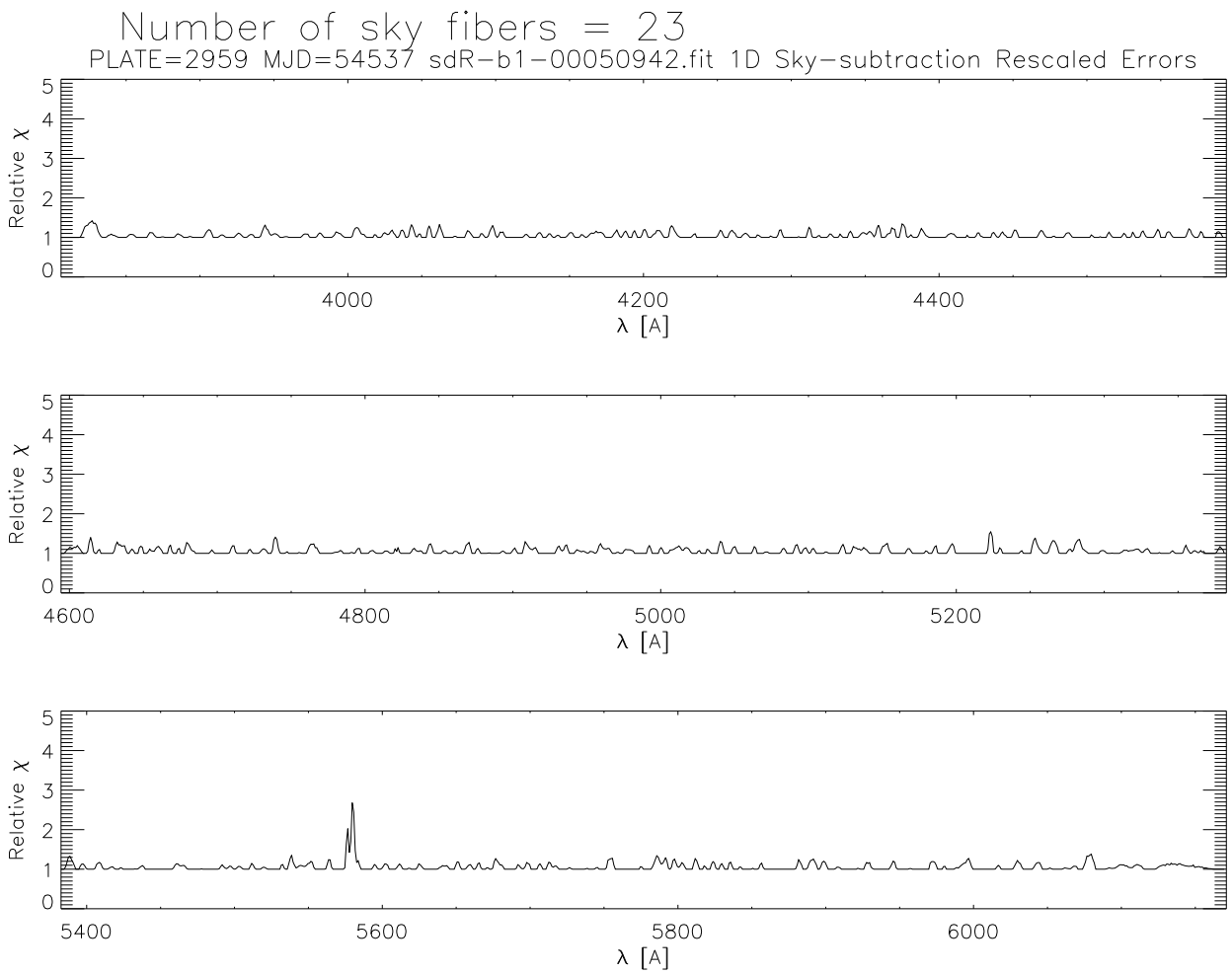

PLATE=2959 MJD=54537 Smooth superflat for sdR-b1-00050942.fit
1.5
1.0
0.5
0.0
1.06
1.04
1.02
1.00
0.98
0.96
4000
4500
5000
5500
6000
Wavelength (Å)

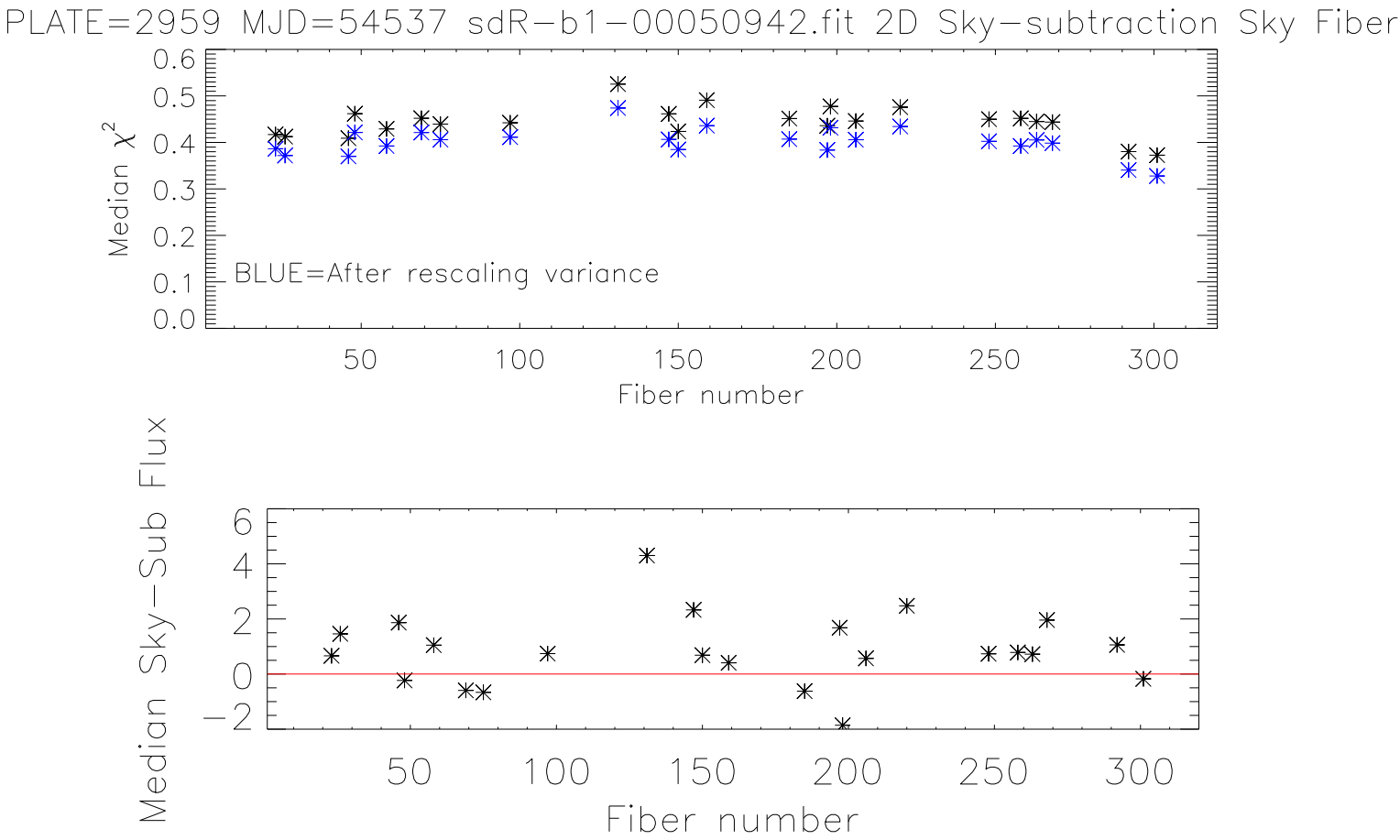
es= −0.0001

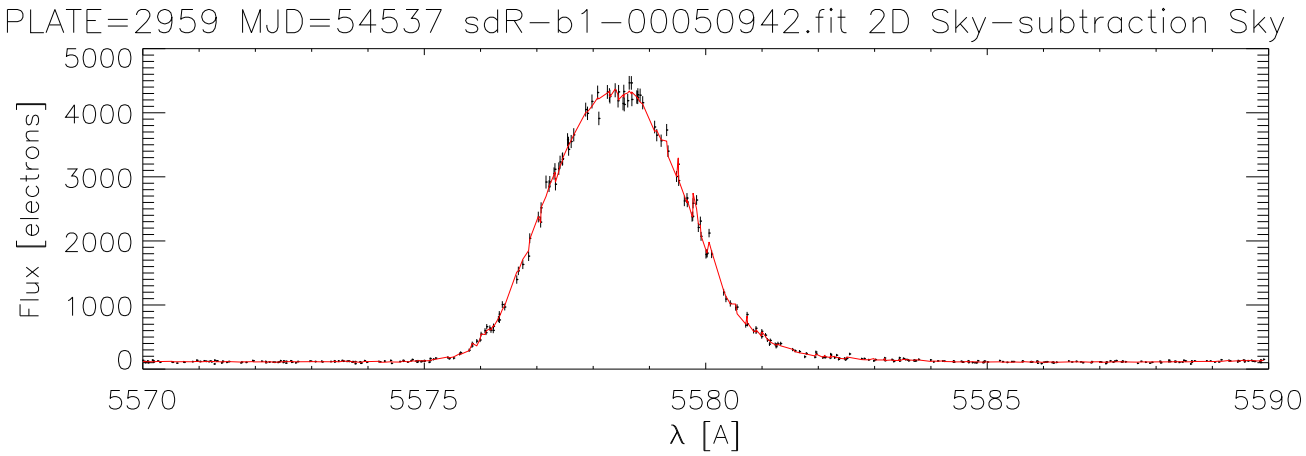

PLATE=2959 MJD=54537 sdR-b1-00050942.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

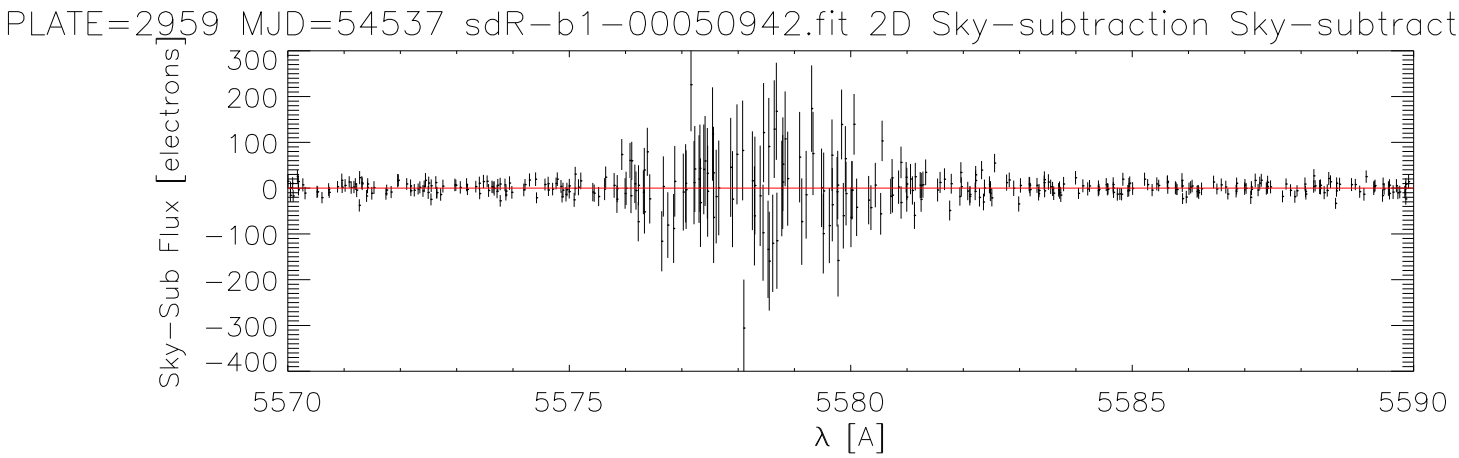

PLATE=2959 MJD=54537 sdR-b1-00050942.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

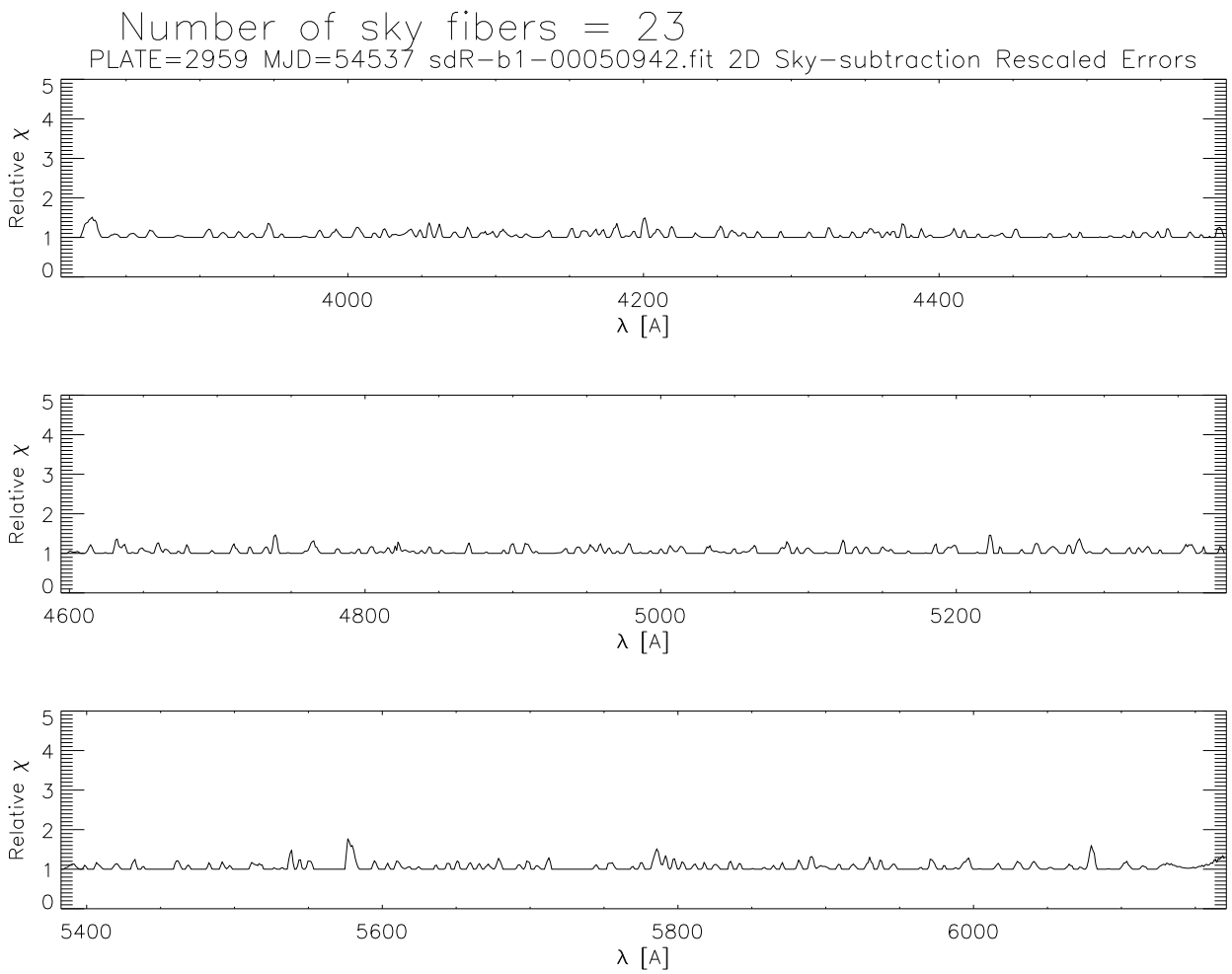

PLATE=2959 MJD=54537 sdR-b1-00050942.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

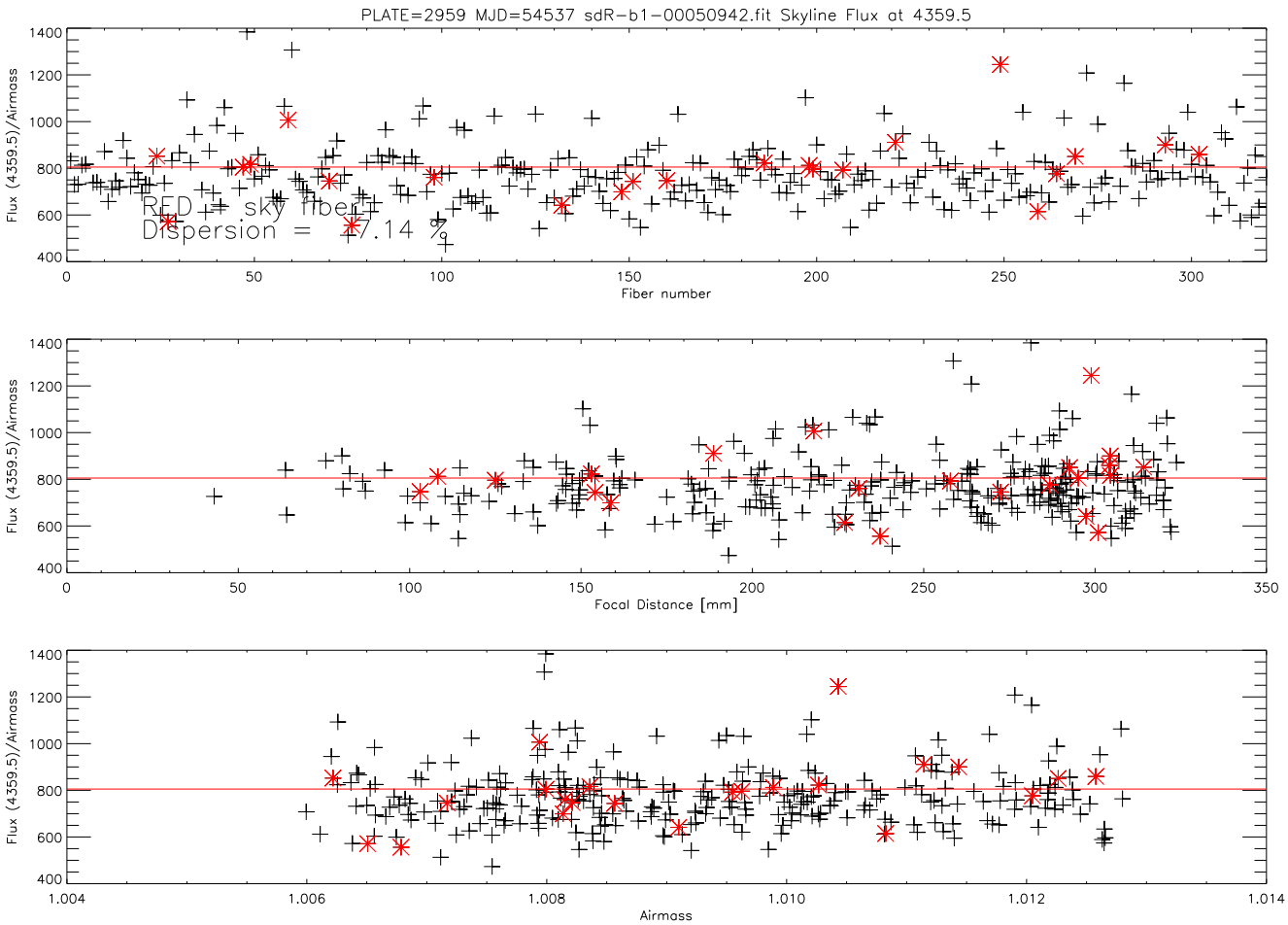

Number of sky fibers = 23
PLATE=2959 MJD=54537 sdR-b1-00050942.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

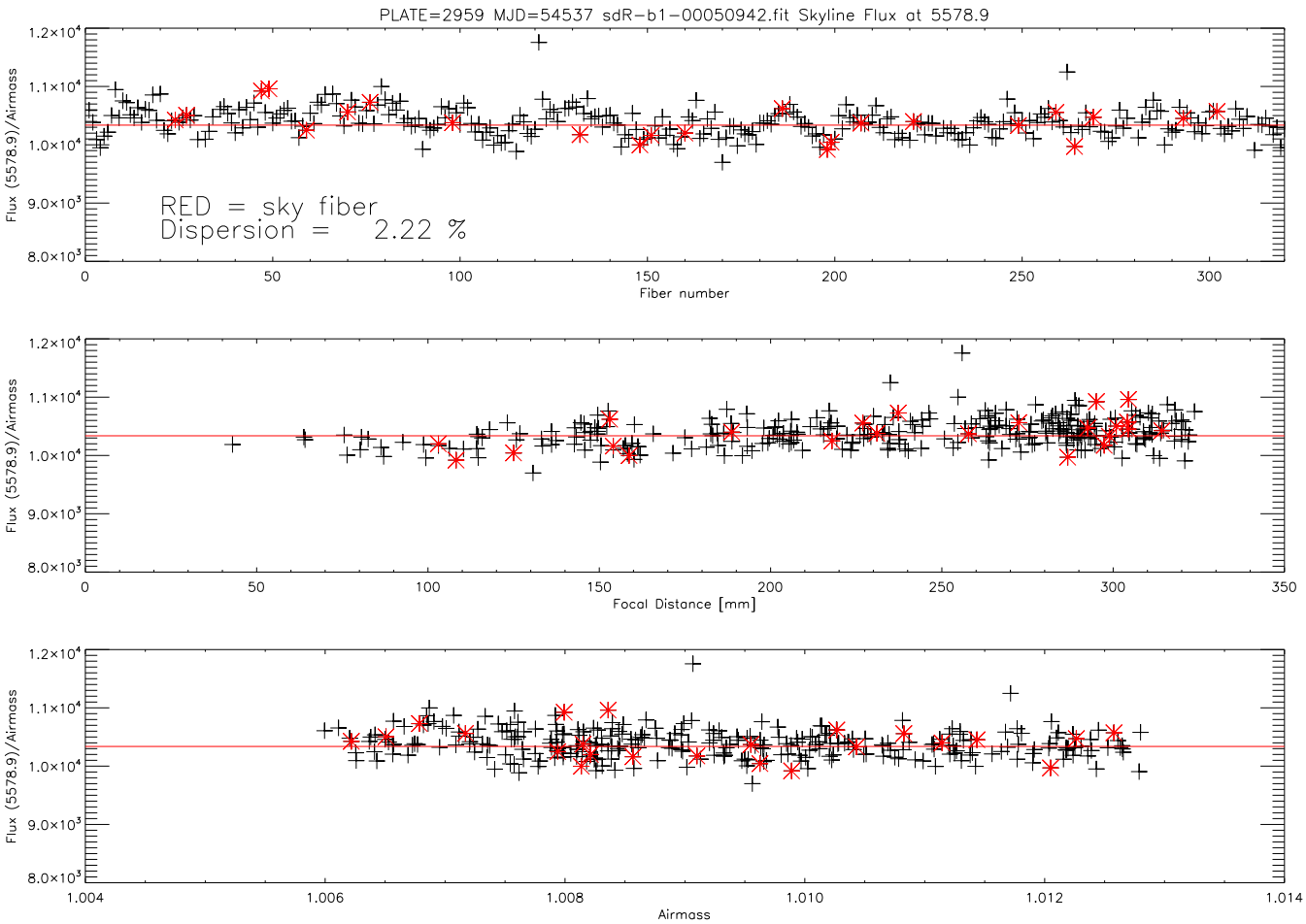

PLATE=2959 MJD=54537 sdR-b1-00050942.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

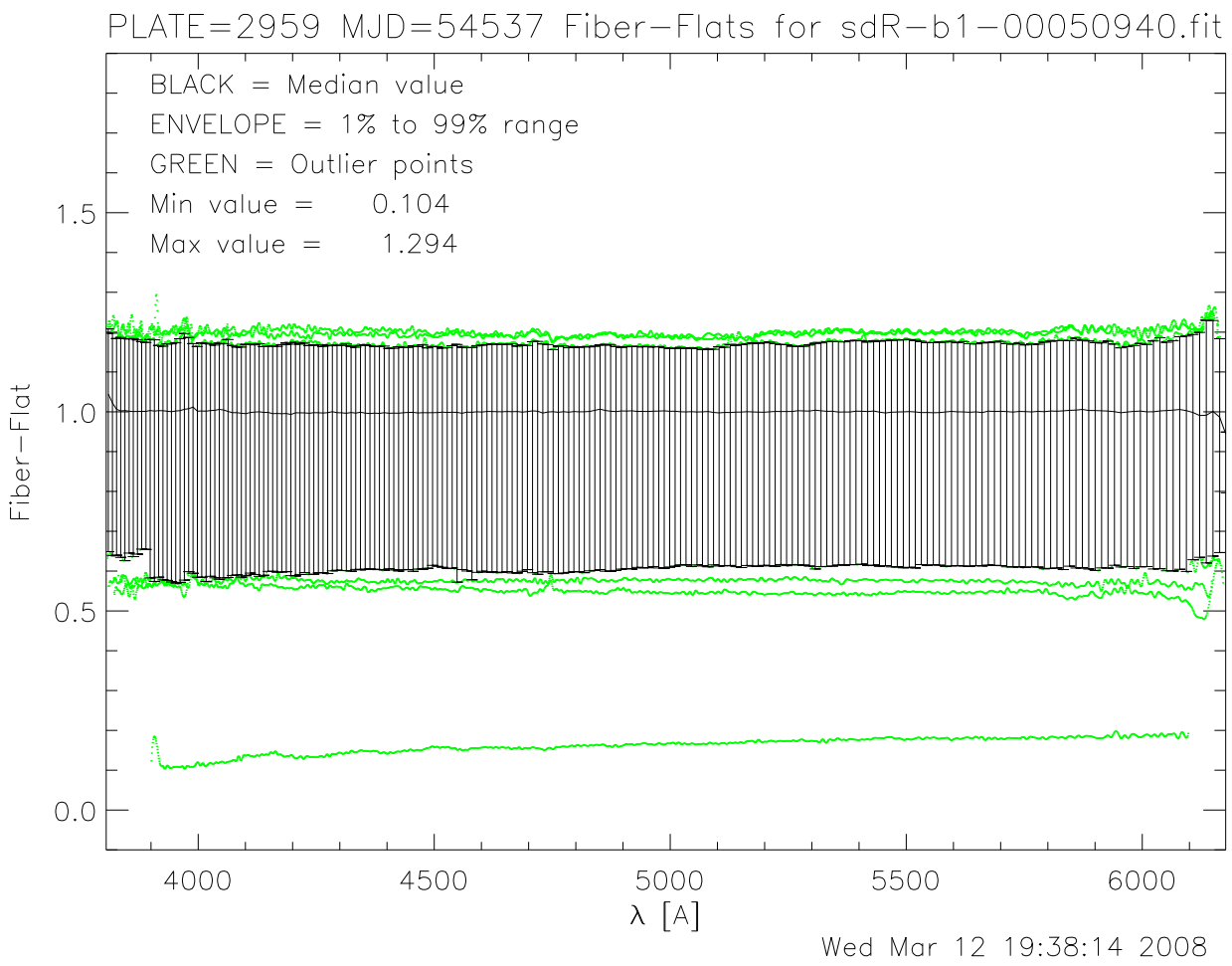

PLATE=2959 MJD=54537 sdR-b1-00050942.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]


PLATE=2959 MJD=54537 sdR-b1-00050942.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
-400
5570
5575
5580
5585
5590
λ [A]


Number of sky fibers = 23
PLATE=2959 MJD=54537 sdR-b1-00050942.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000


PLATE=2959 MJD=54537 sdR-b1-00050942.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 7.14 %
Focal Distance [mm]
Airmass


PLATE=2959 MJD=54537 sdR-b1-00050942.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.22 %
Fiber number
Focal Distance [mm]
Airmass


PLATE=2959 MJD=54537 Fiber−Flats for sdR−b1−00050940.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.104
Max value = 1.294
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
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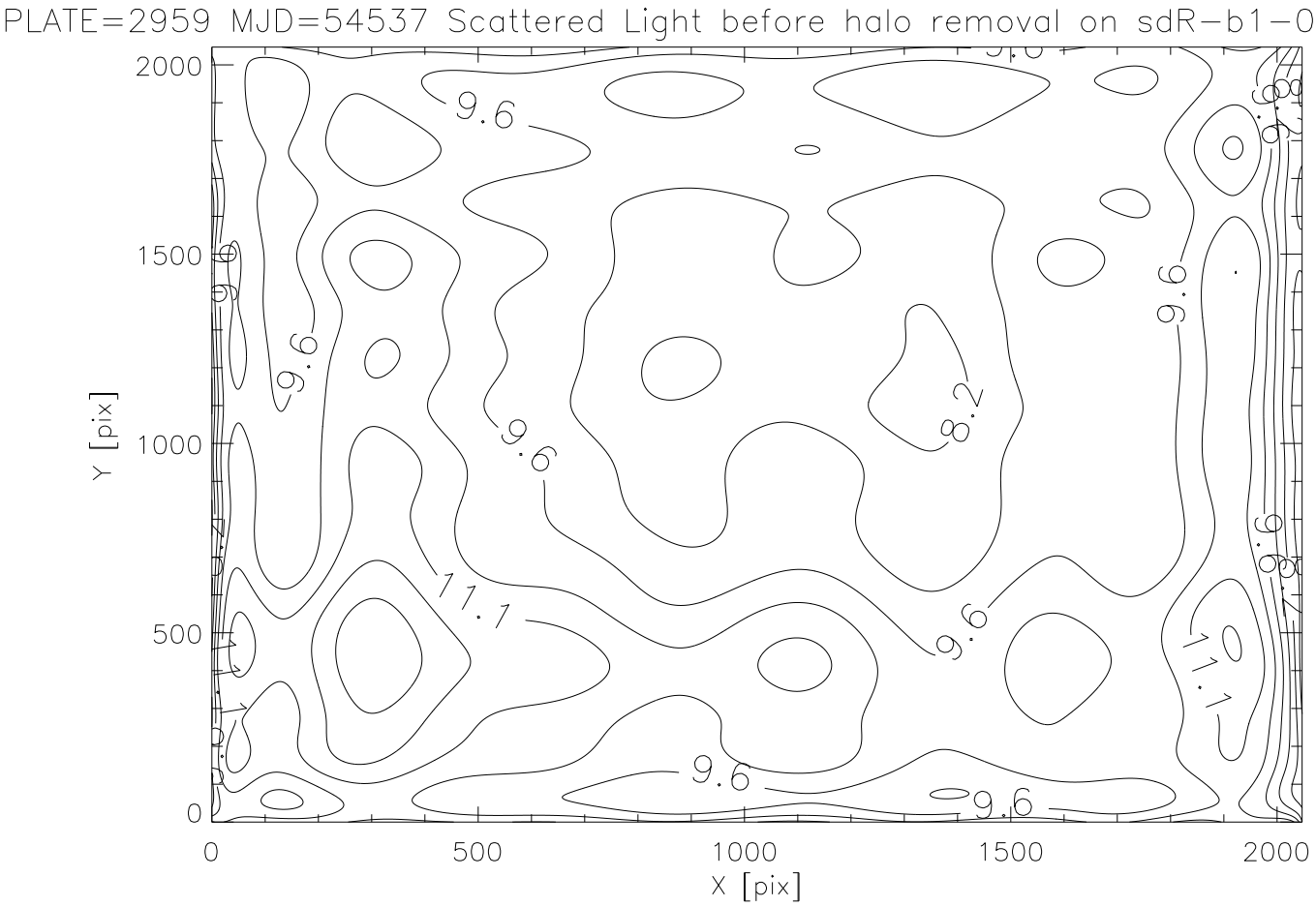
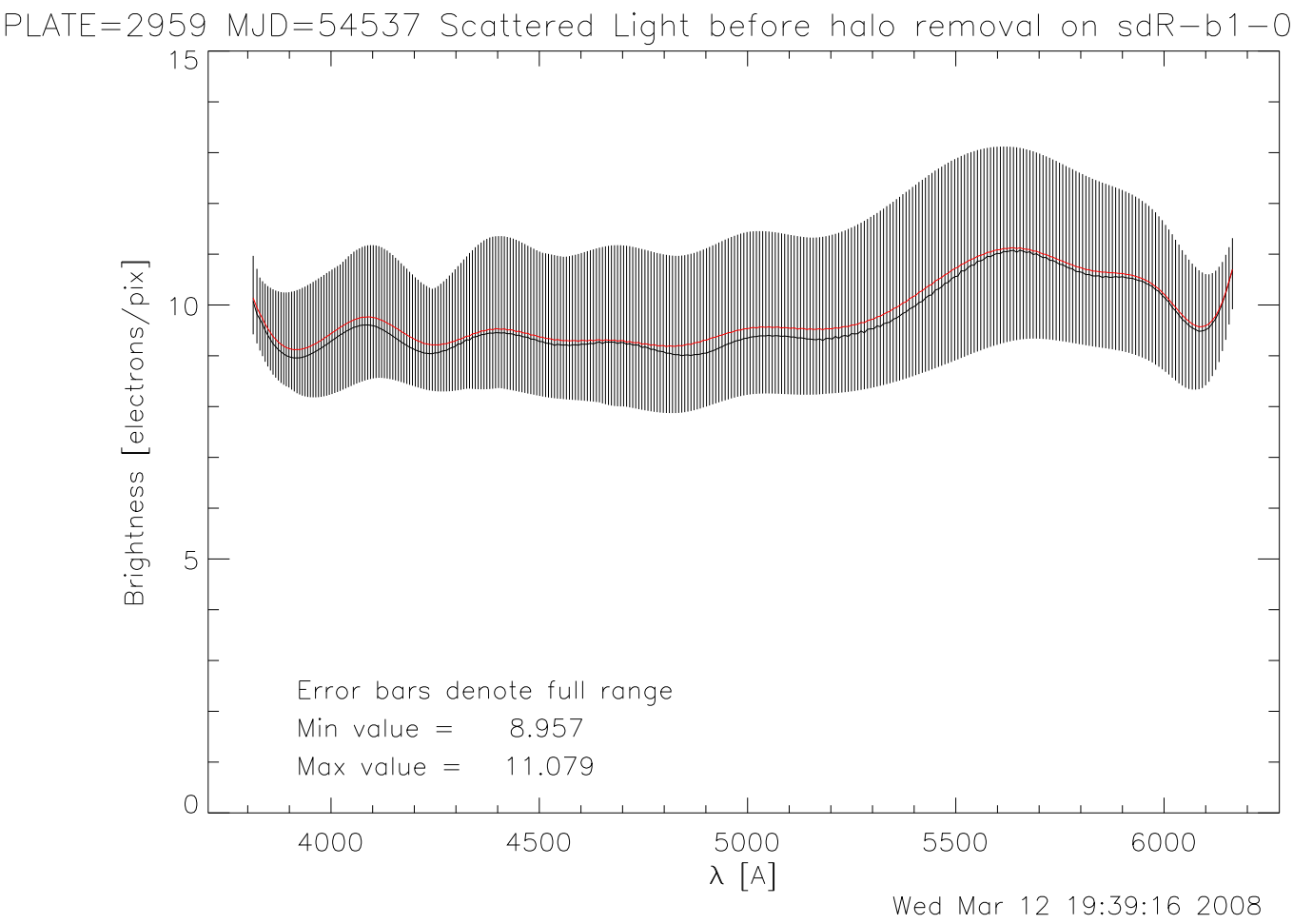
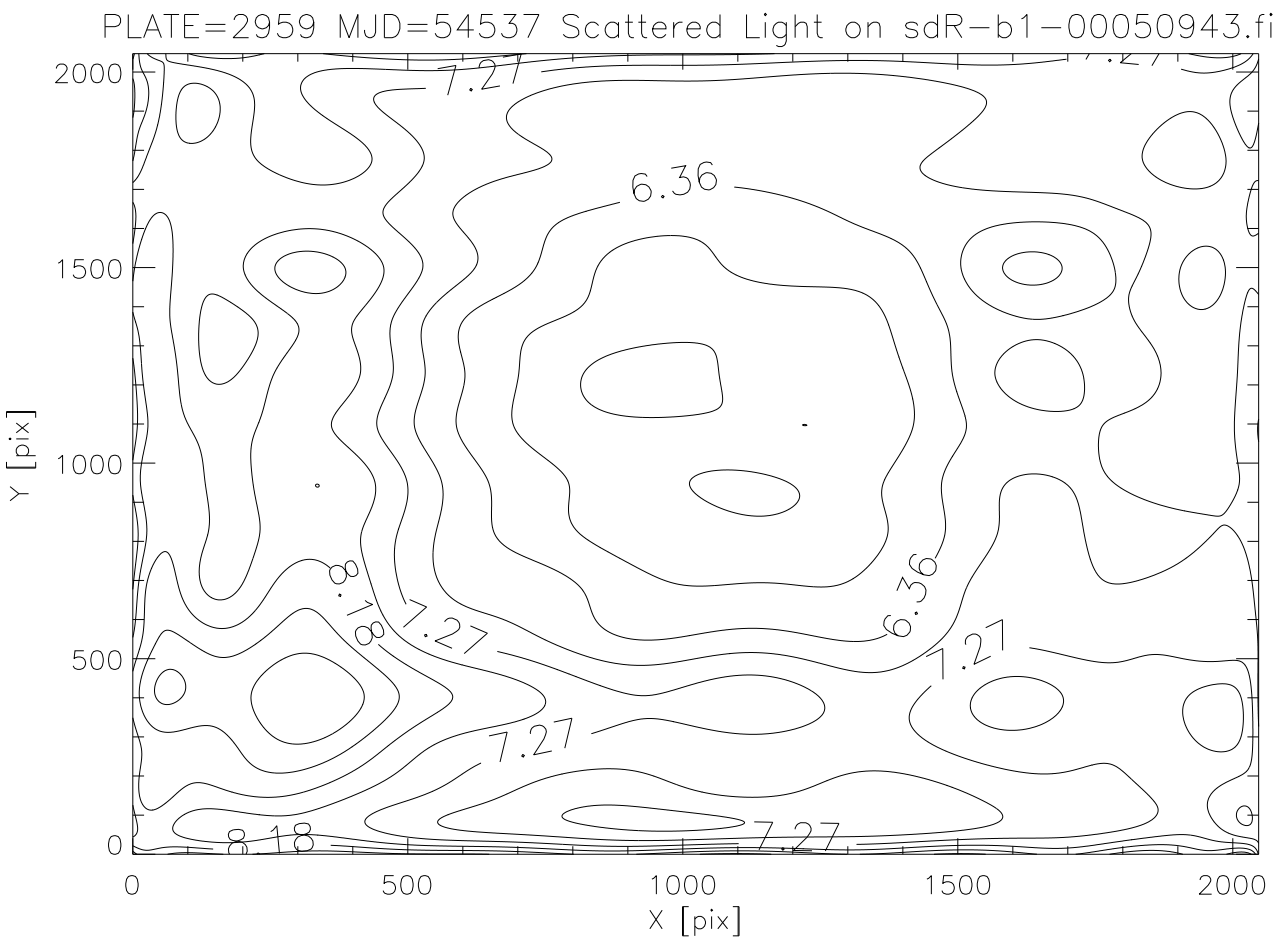
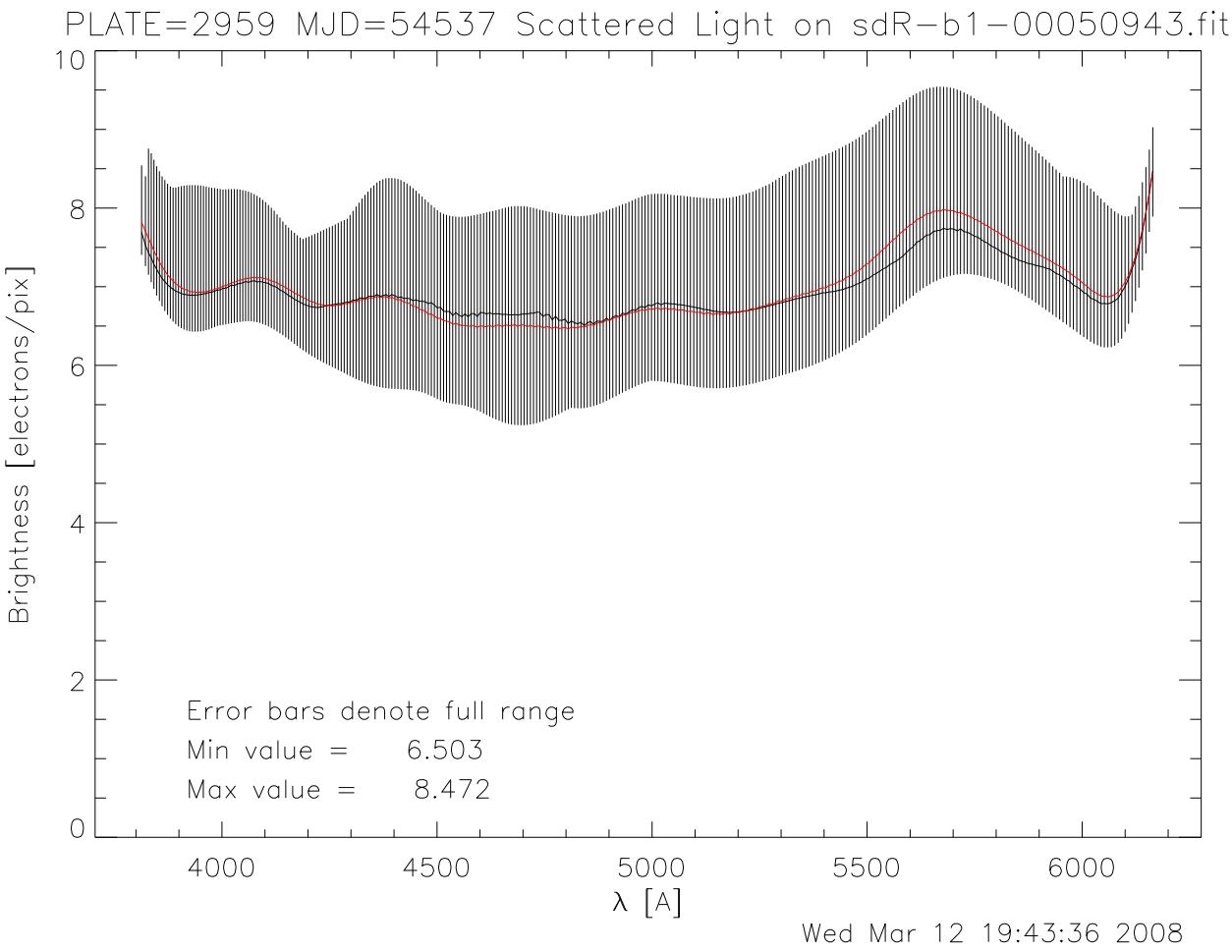
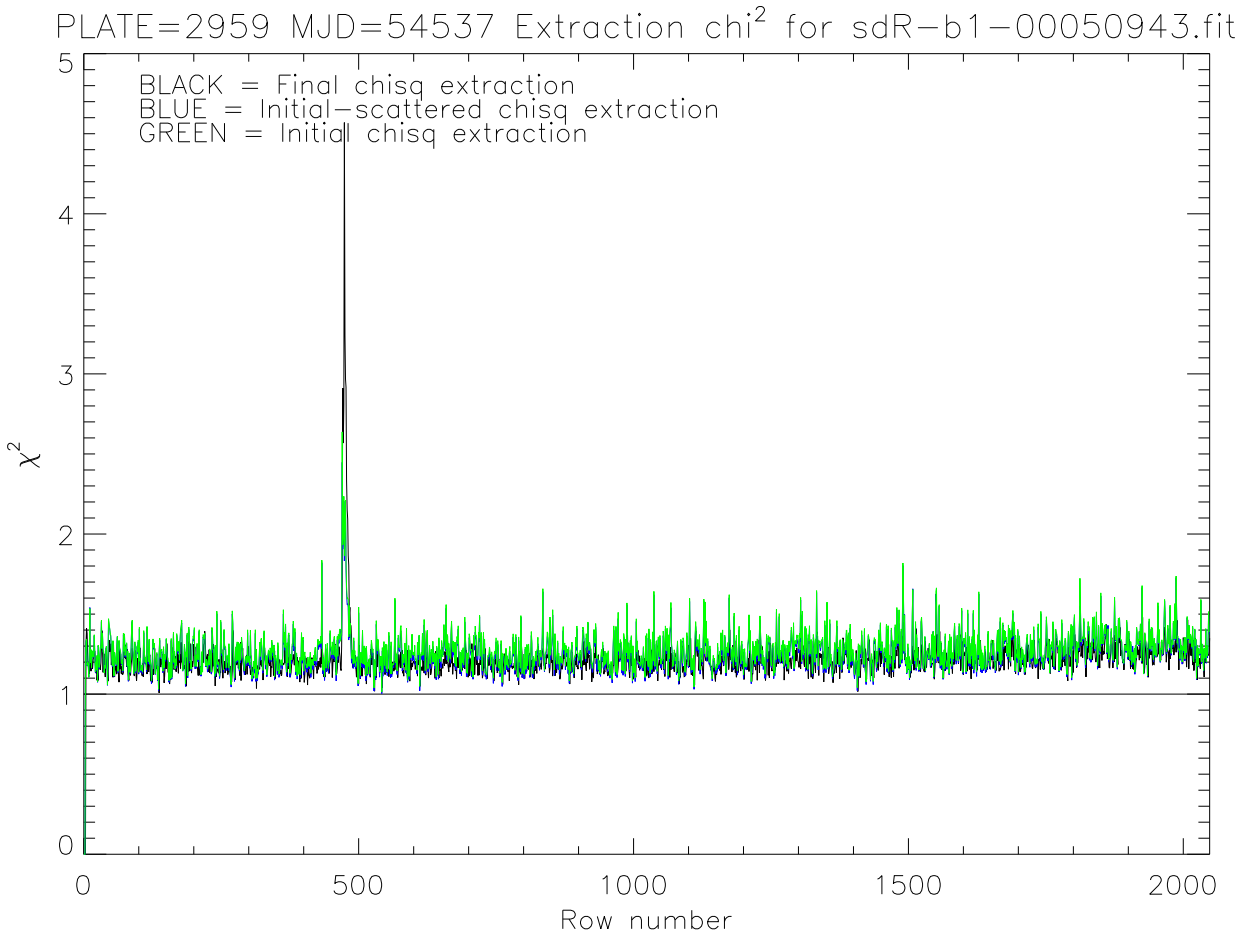
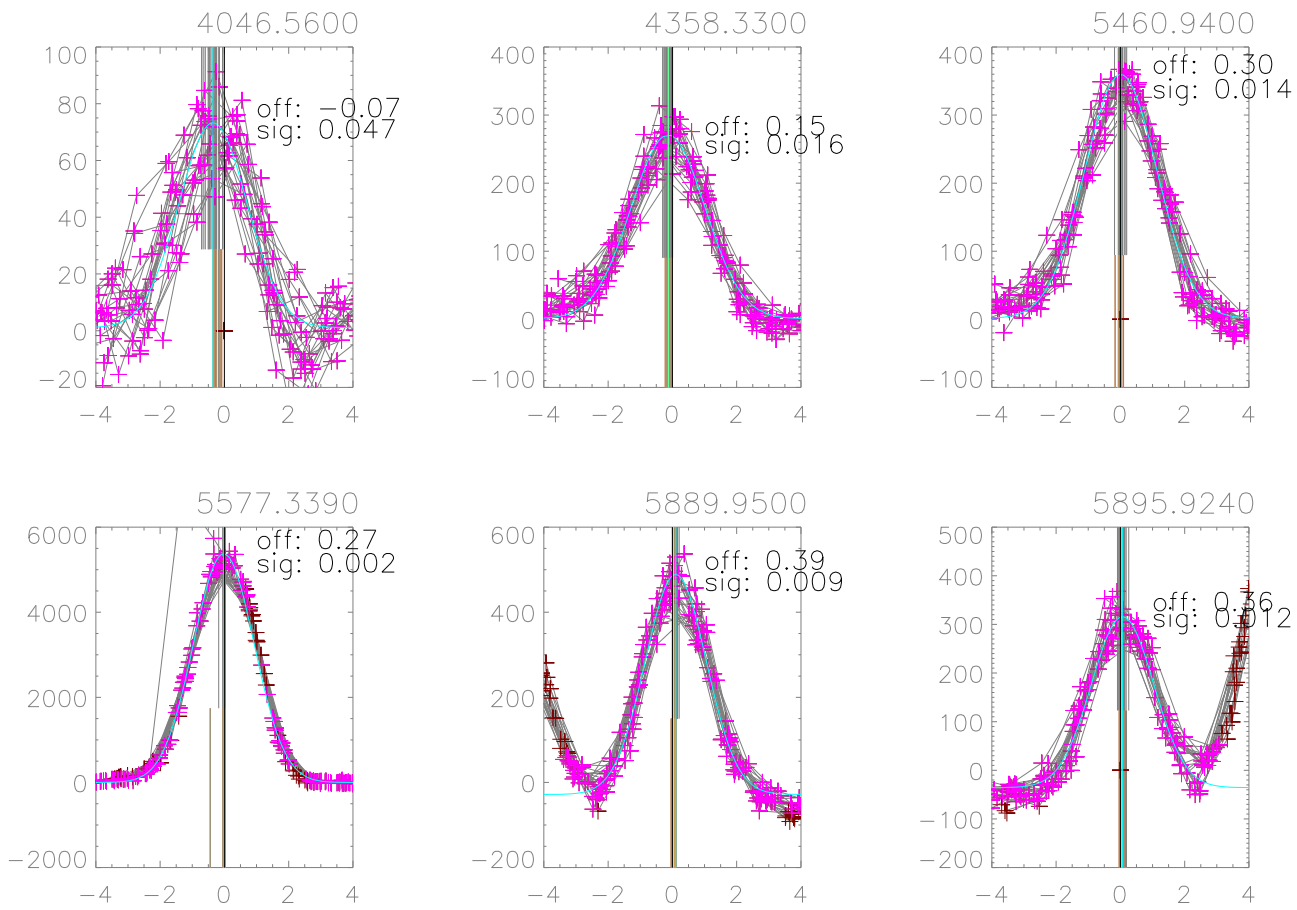

PLATE=2959 MJD=54537 Scattered Light before halo removal on sdR−b1−00050943.f
9.6
11.1
8.2
Y [pix]
X [pix]
0
500
1000
1500
2000

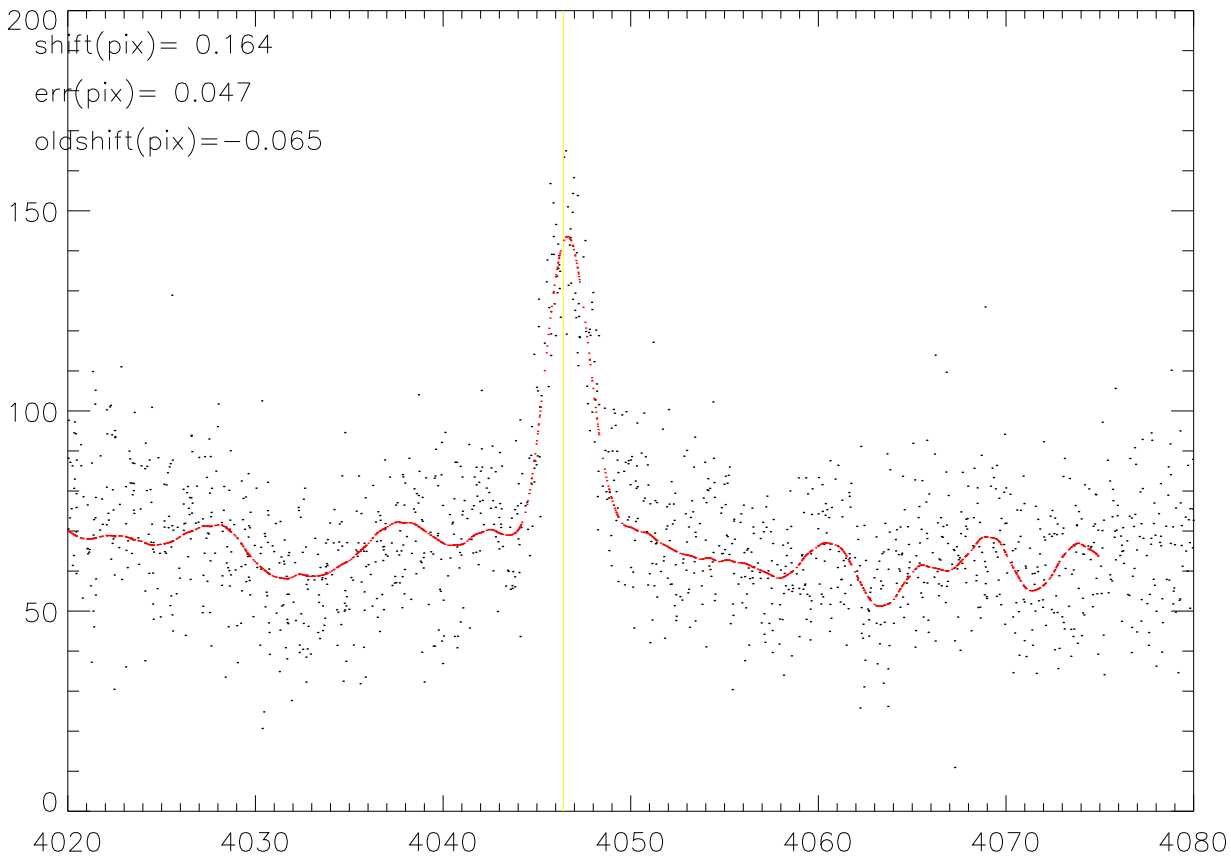

PLATE=2959 MJD=54537 Scattered Light before halo removal on sdR−b1−00050943.f
15
10
5
0
Brightness [electrons/pix]
Error bars denote full range
Min value = 8.957
Max value = 11.079
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 19:39:16 2008

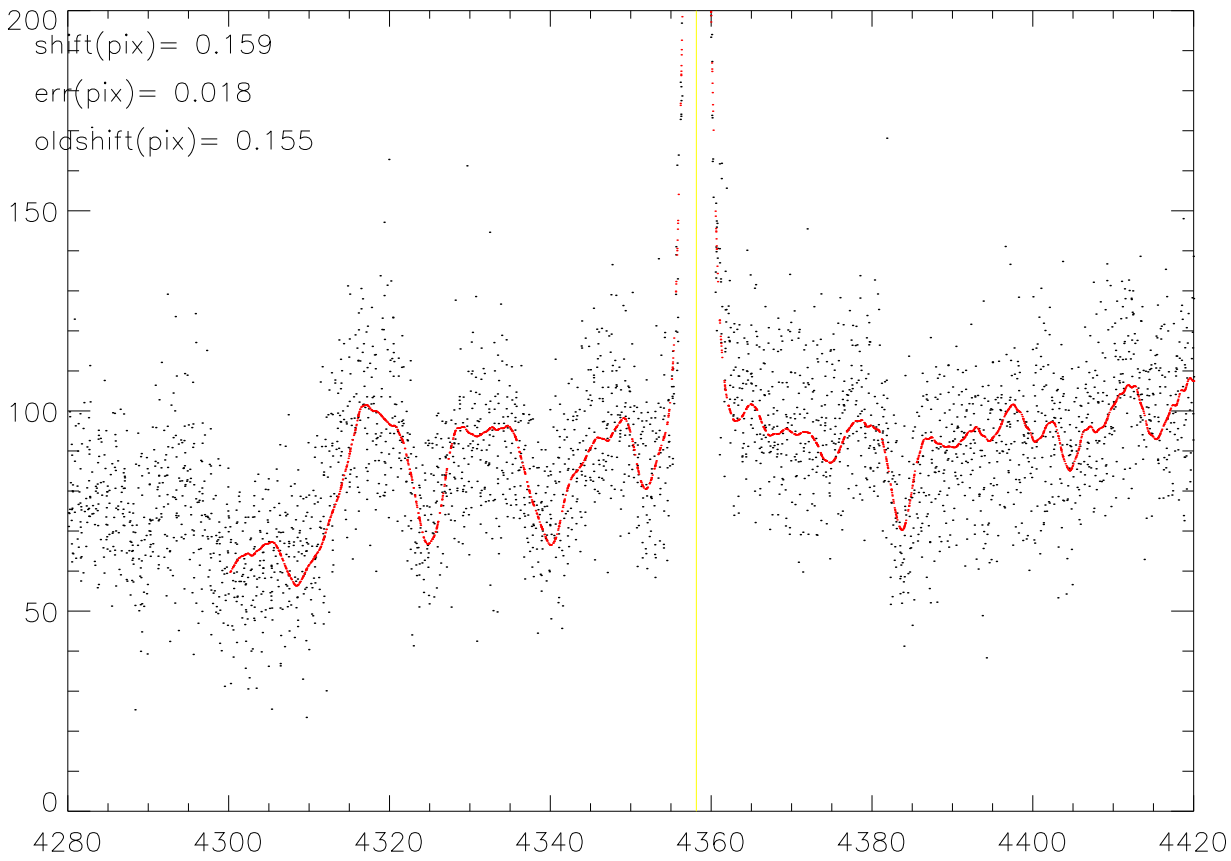

PLATE=2959 MJD=54537 Scattered Light on sdR-b1-00050943.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
7.27
6.36
8.18

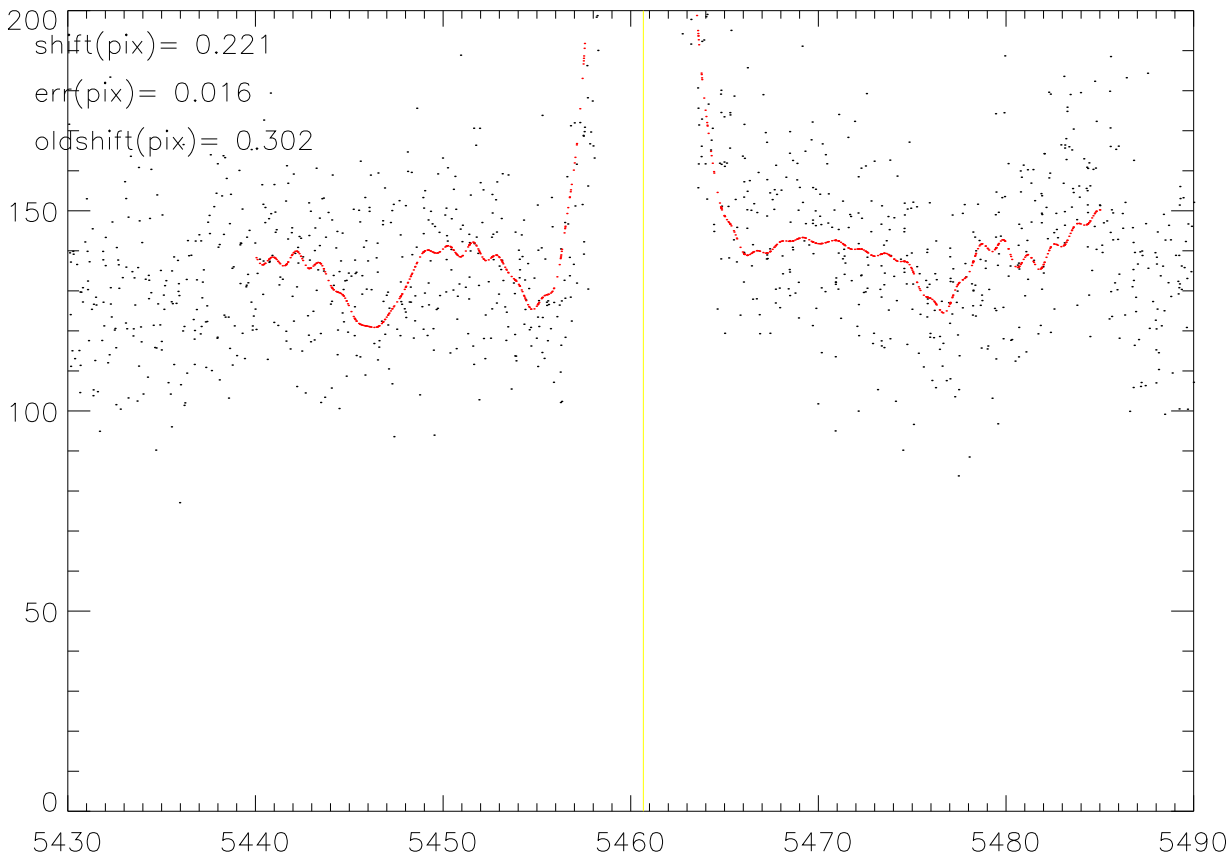

PLATE=2959 MJD=54537 Scattered Light on sdR-b1-00050943.fit
Brightness [electrons/pix]
10
8
6
4
2
0
Error bars denote full range
Min value = 6.503
Max value = 8.472
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 19:43:36 2008

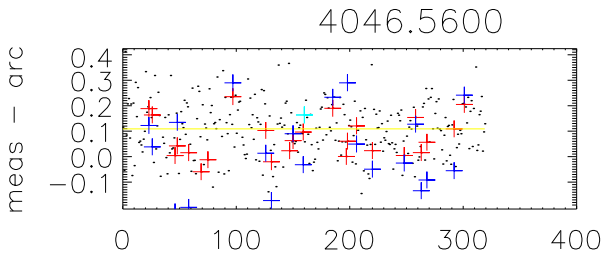

PLATE=2959 MJD=54537 Extraction chi^2 for sdR-b1-00050943.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

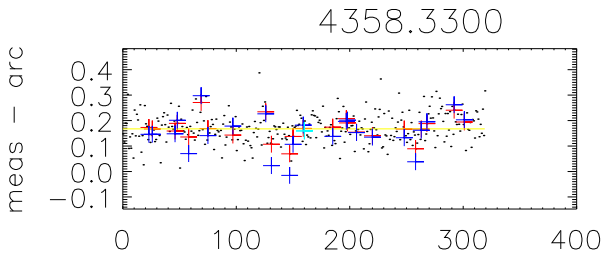

4046.5600
off: −0.07
sig: 0.047
4358.3300
off: 0.15
sig: 0.016
5460.9400
off: 0.30
sig: 0.014
5577.3390
off: 0.27
sig: 0.002
5889.9500
off: 0.39
sig: 0.009
5895.9240
off: 0.36
sig: 0.012

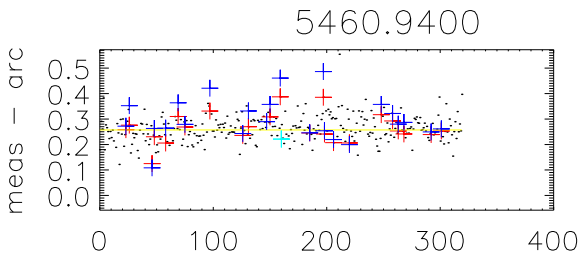

shift(pix)= 0.164
err(pix)= 0.047
oldshift(pix)=-0.065
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

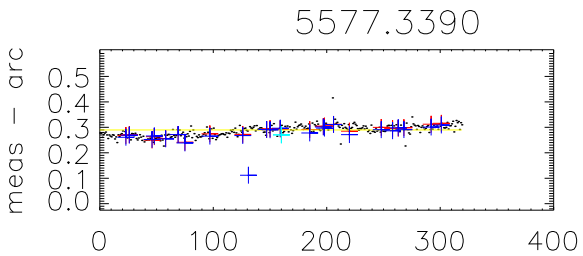

shift(pix)= 0.159
err(pix)= 0.018
oldshift(pix)= 0.155
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

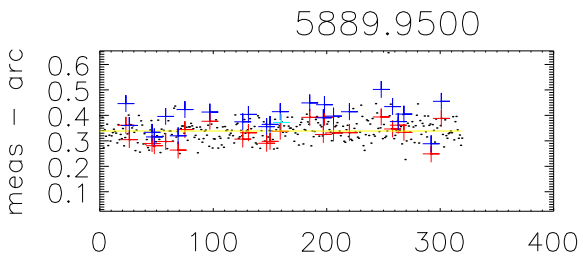

shift(pix)= 0.221
err(pix)= 0.016
oldshift(pix)= 0.302
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

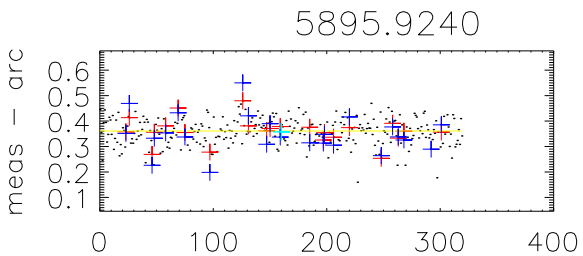

4046.5600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

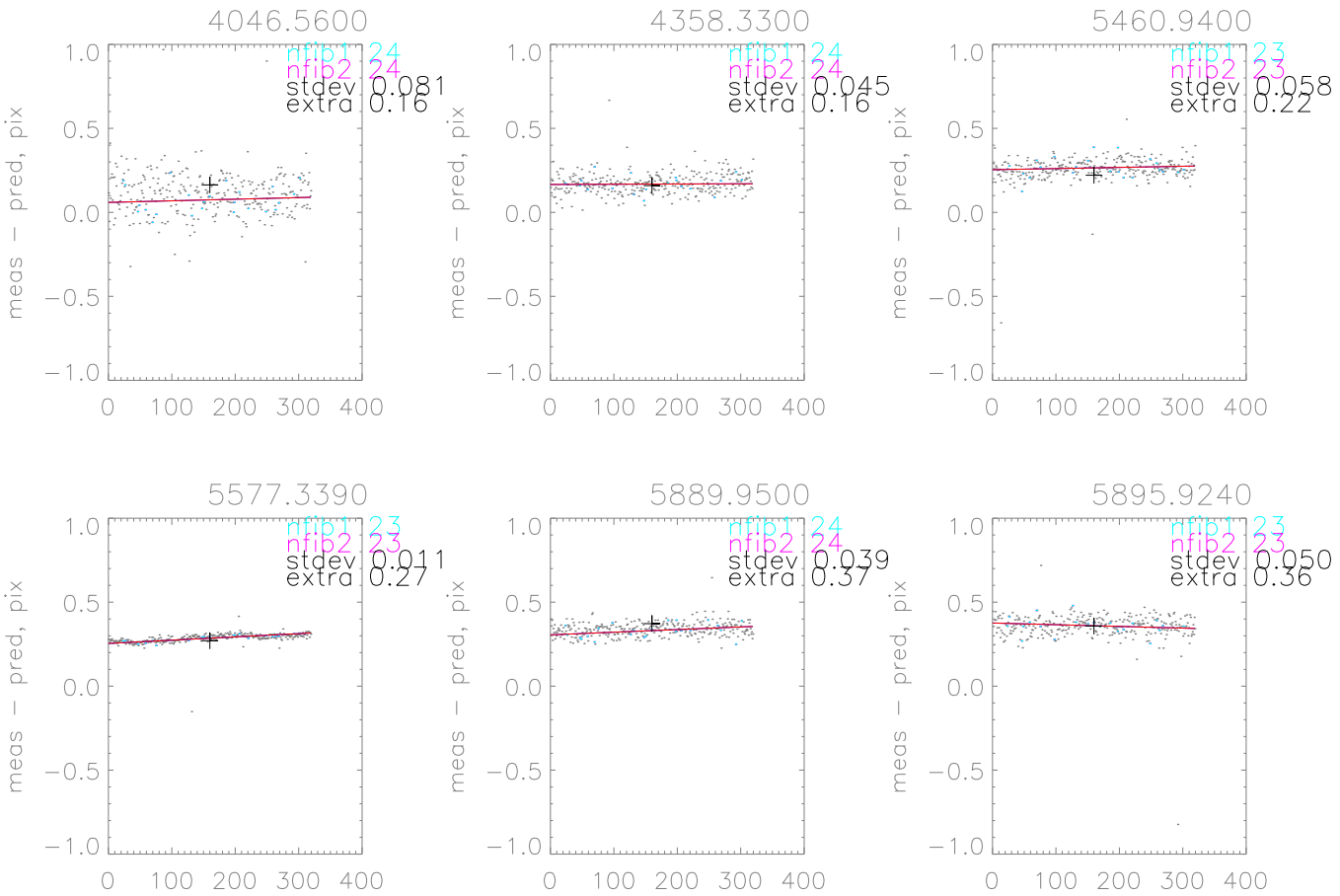

4358.3300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

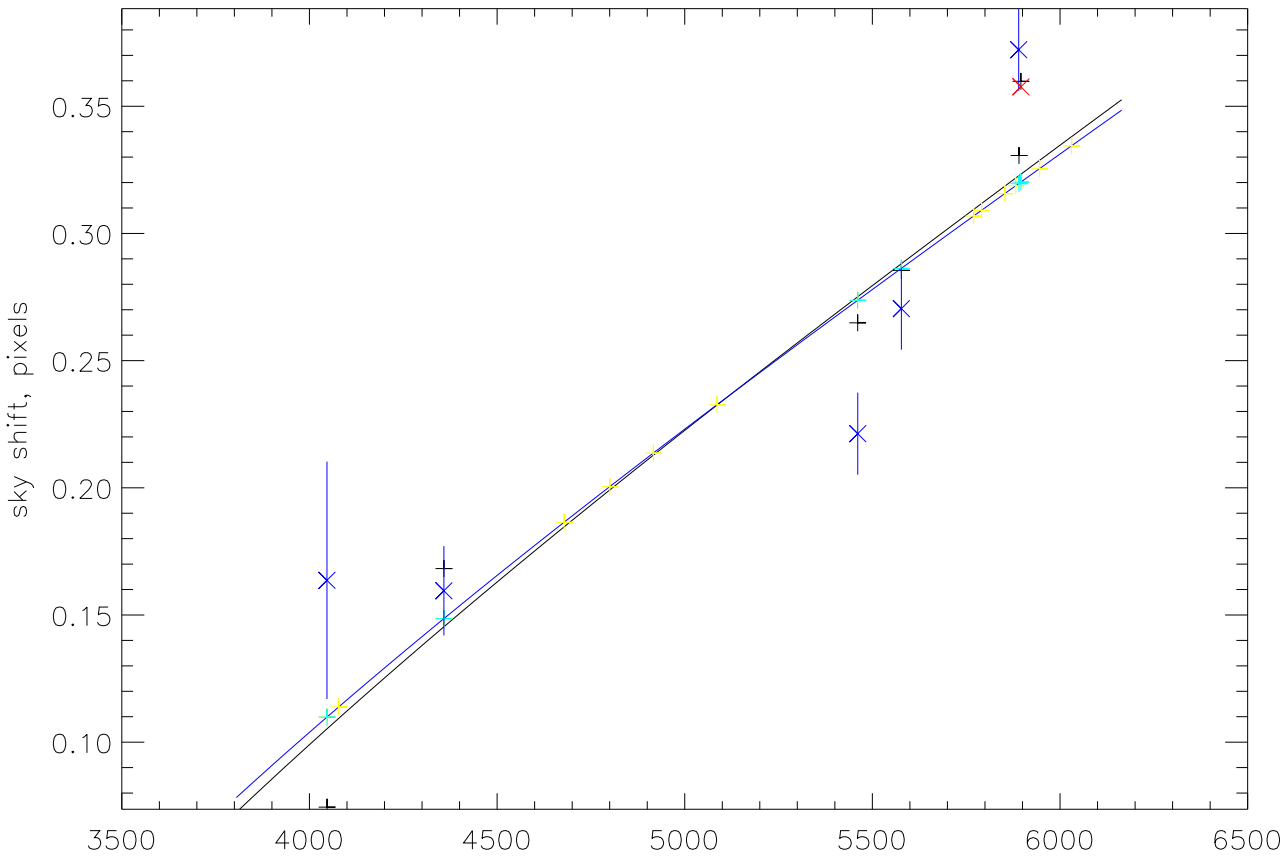

5460.9400
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

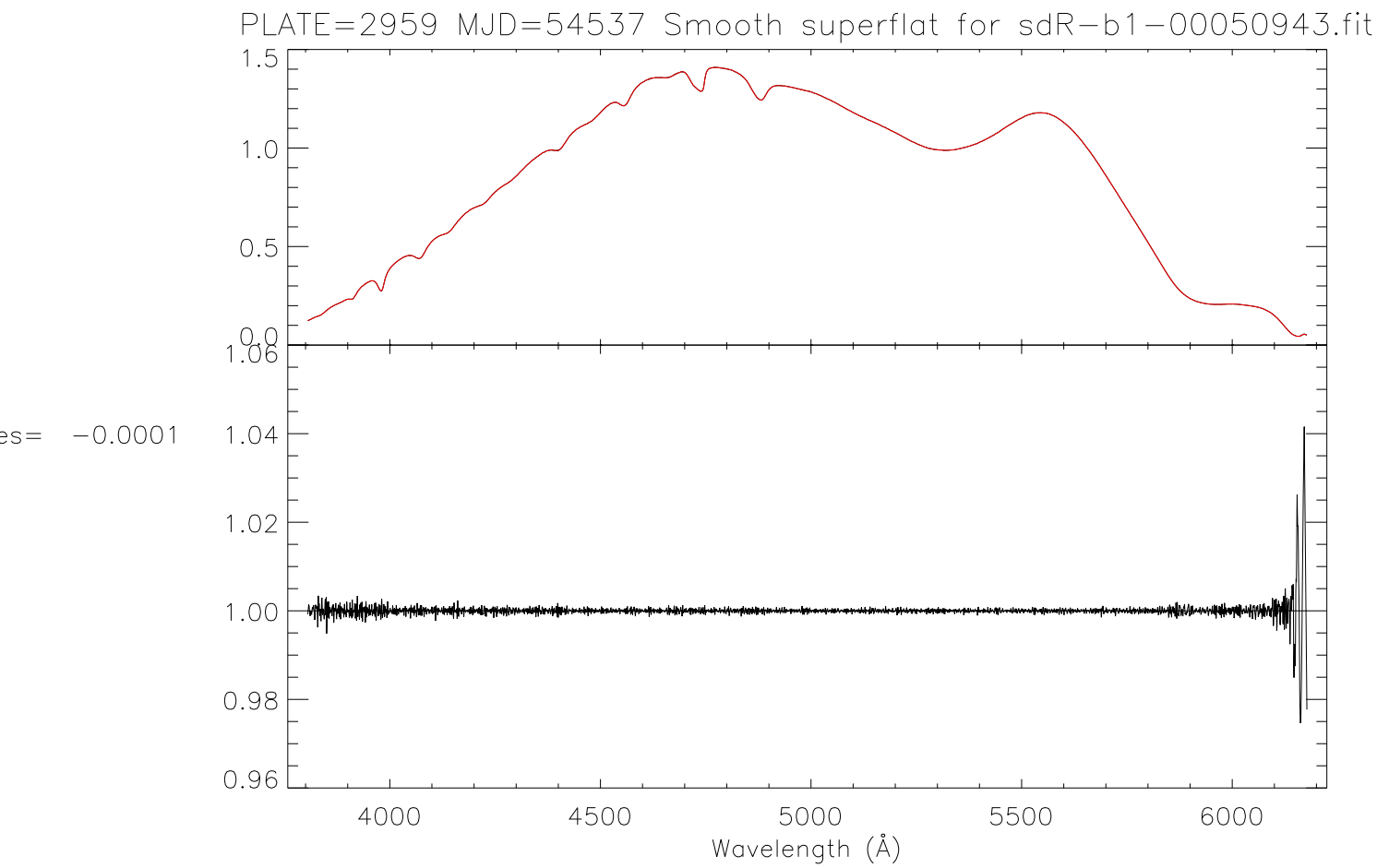

5577.3390
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400


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

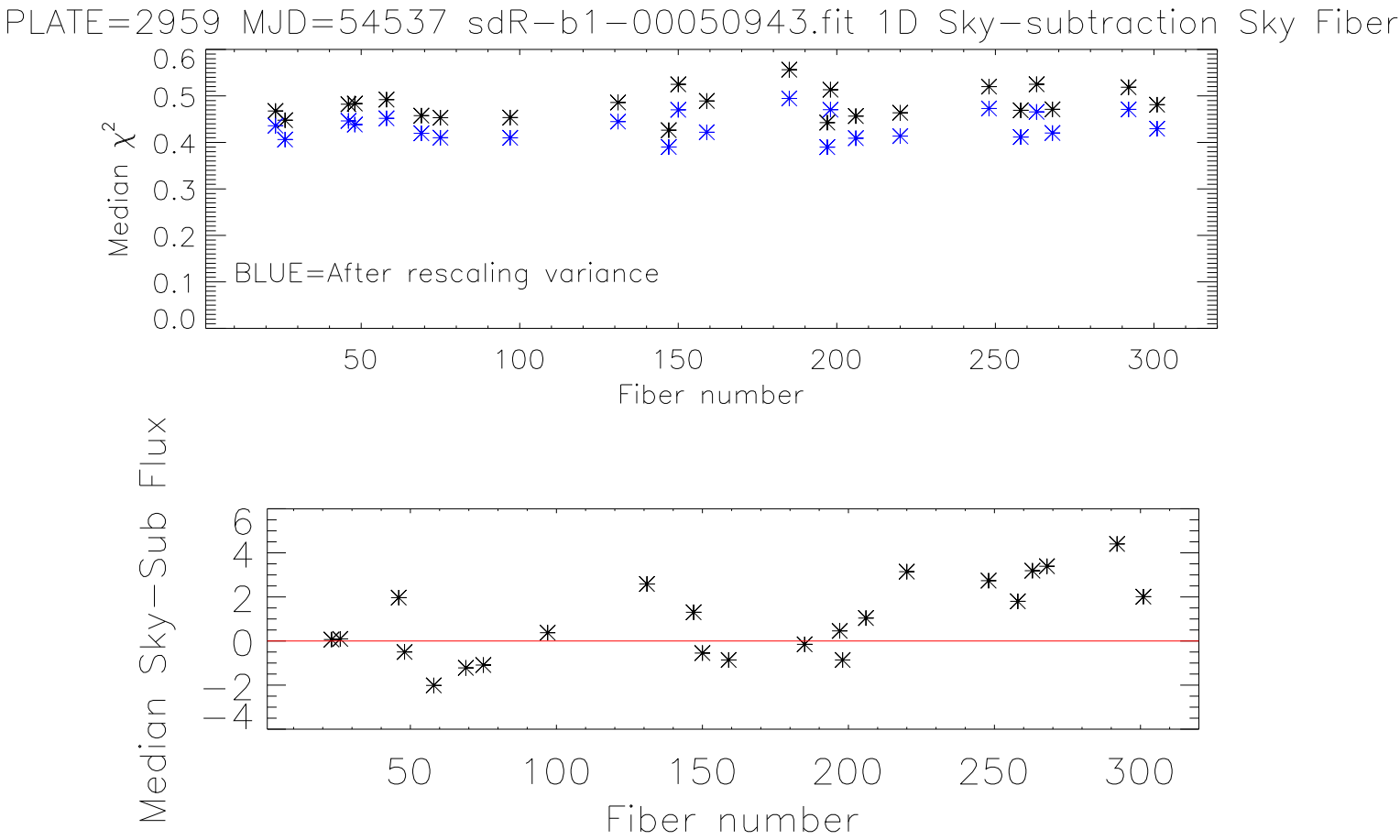

5895.9240
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

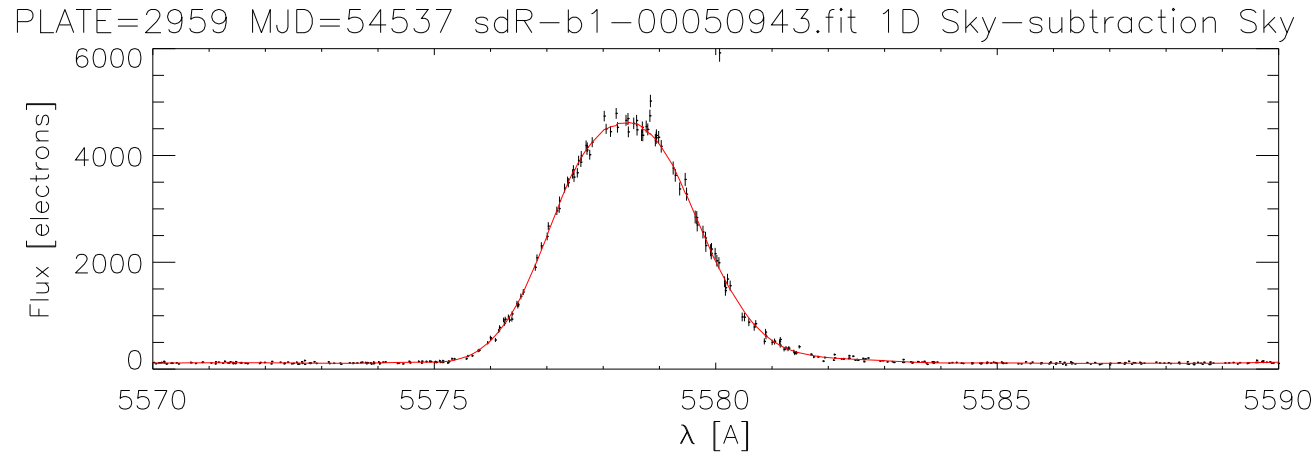

4046.5600
nfib1 24
nfib2 24
stdev 0.081
extra 0.16
4358.3300
nfib1 24
nfib2 24
stdev 0.045
extra 0.16
5460.9400
nfib1 23
nfib2 23
stdev 0.058
extra 0.22
5577.3390
nfib1 23
nfib2 23
stdev 0.011
extra 0.27
5889.9500
nfib1 24
nfib2 24
stdev 0.039
extra 0.37
5895.9240
nfib1 23
nfib2 23
stdev 0.050
extra 0.36
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

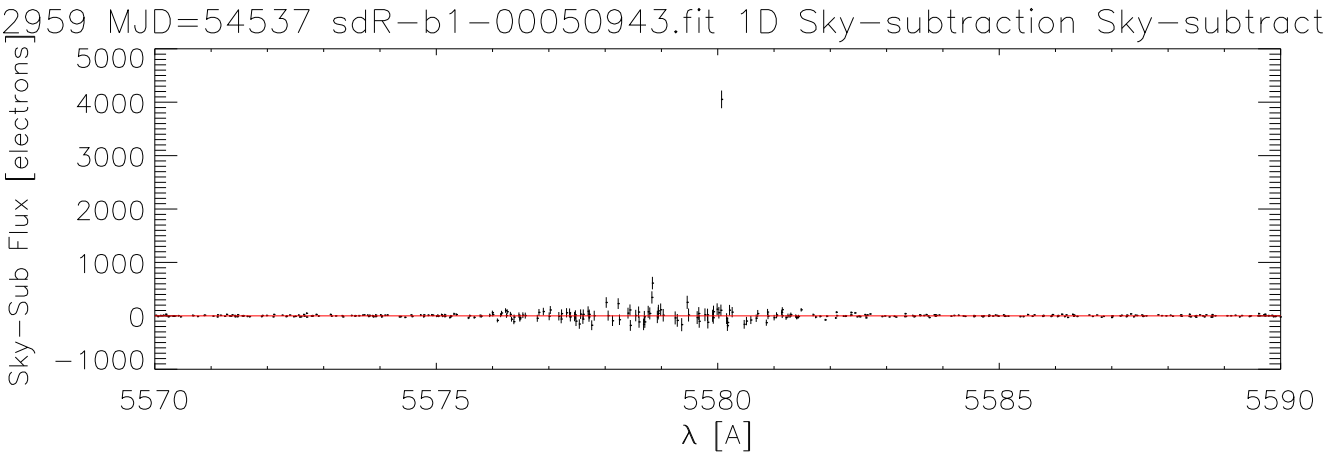

sky shift, pixels
0.35
0.30
0.25
0.20
0.15
0.10
3500
4000
4500
5000
5500
6000
6500

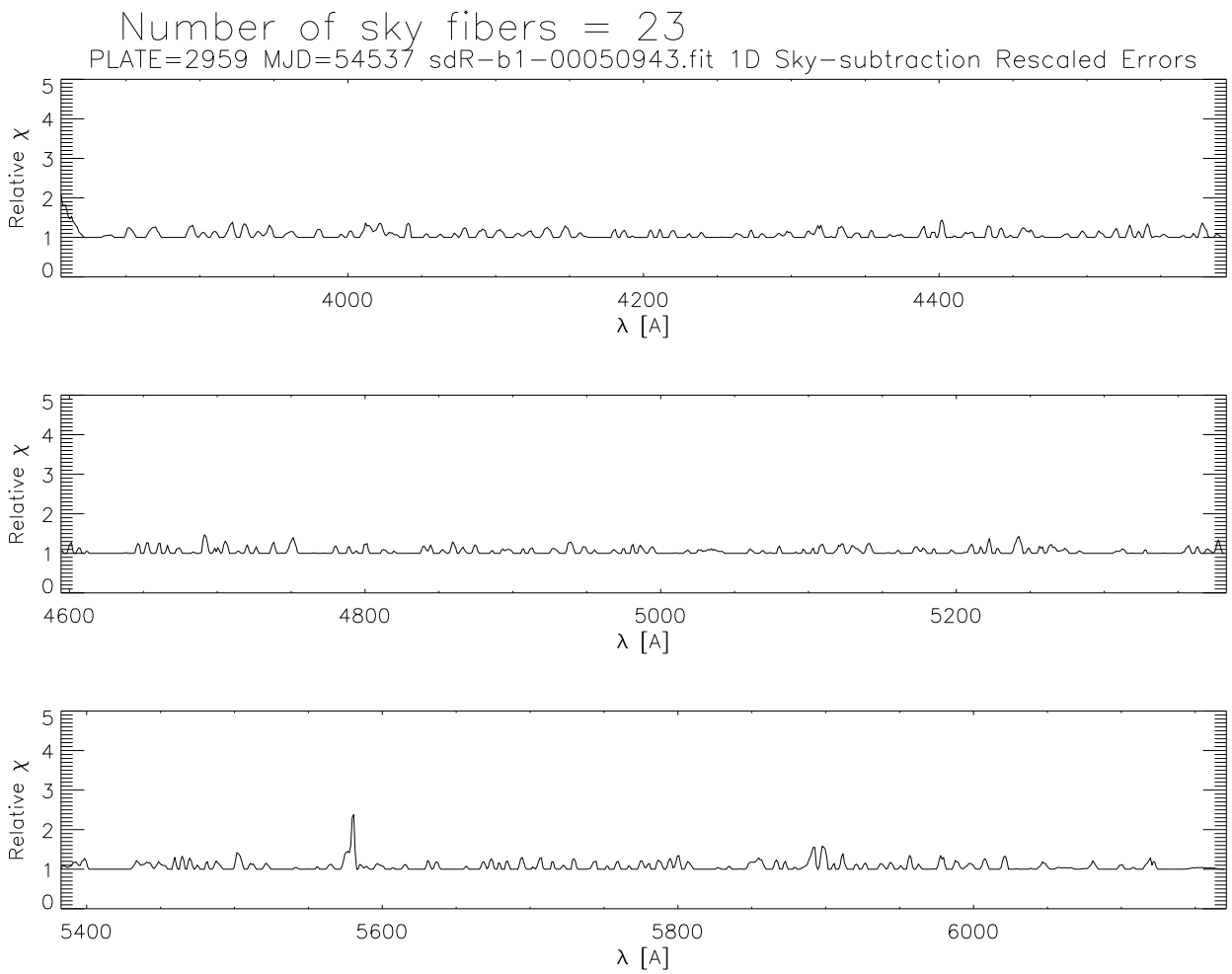

PLATE=2959 MJD=54537 Smooth superflat for sdR-b1-00050943.fit
1.5
1.0
0.5
0.0
1.06
1.04
1.02
1.00
0.98
0.96
4000
4500
5000
5500
6000
Wavelength (Å)

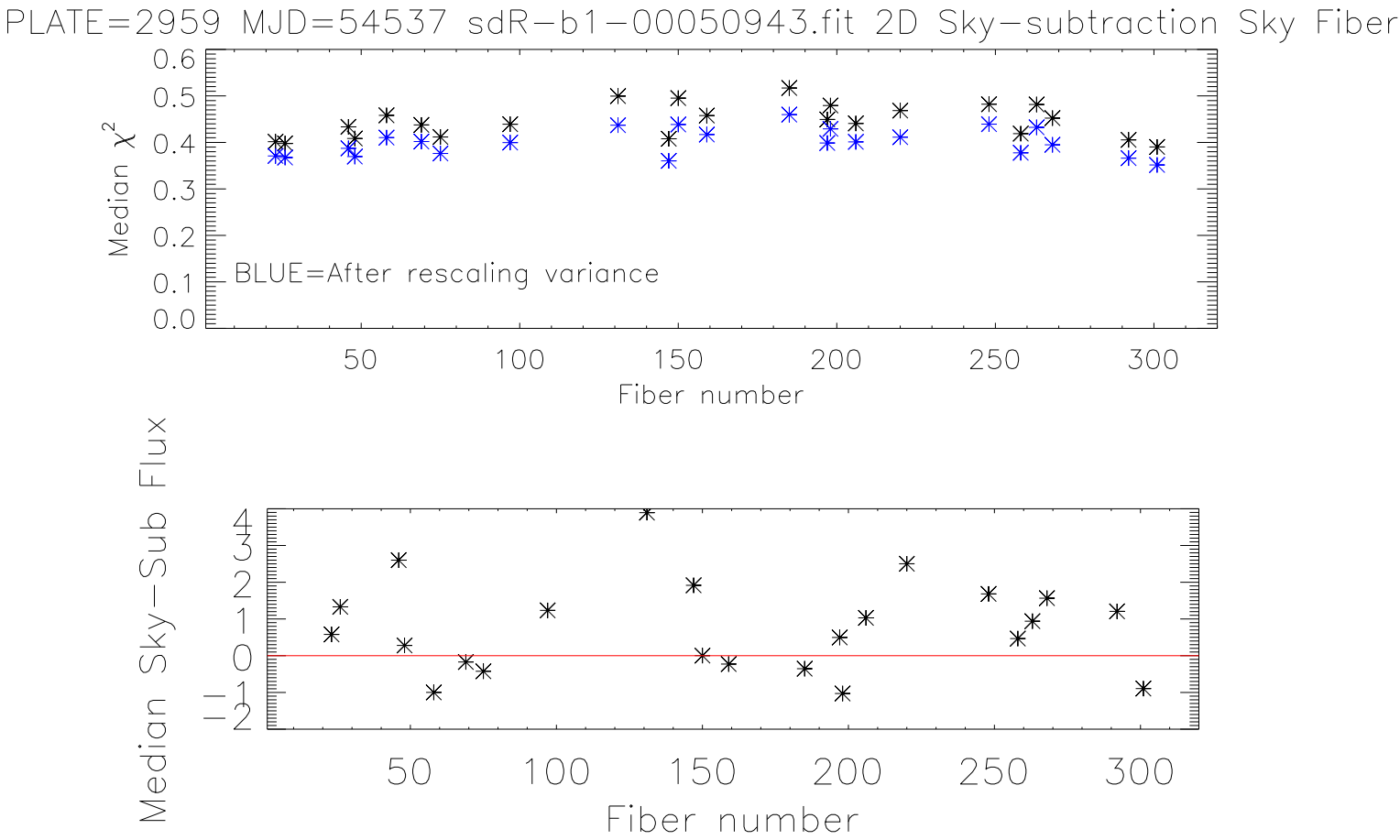
es= −0.0001

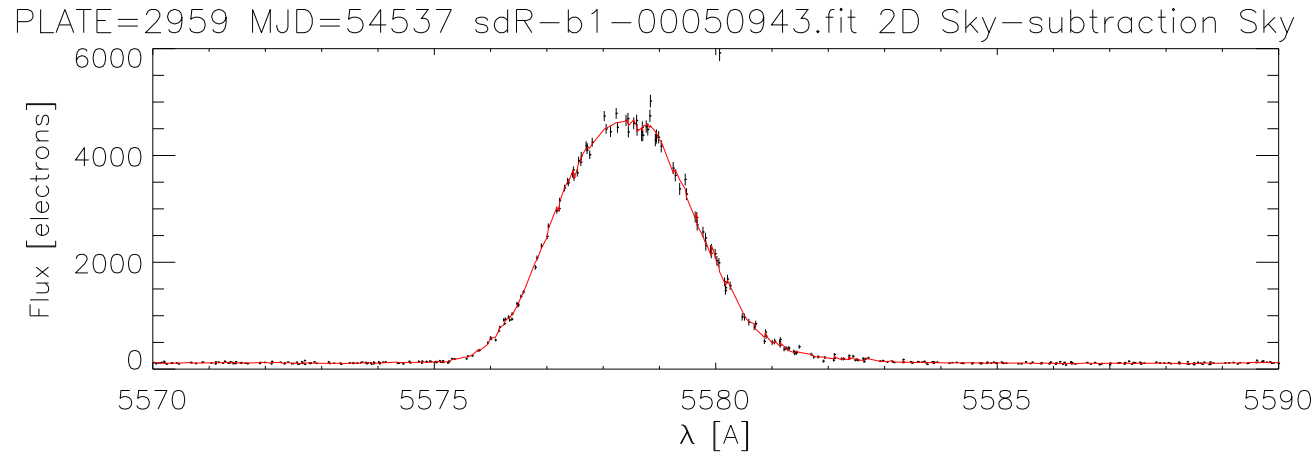

PLATE=2959 MJD=54537 sdR-b1-00050943.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

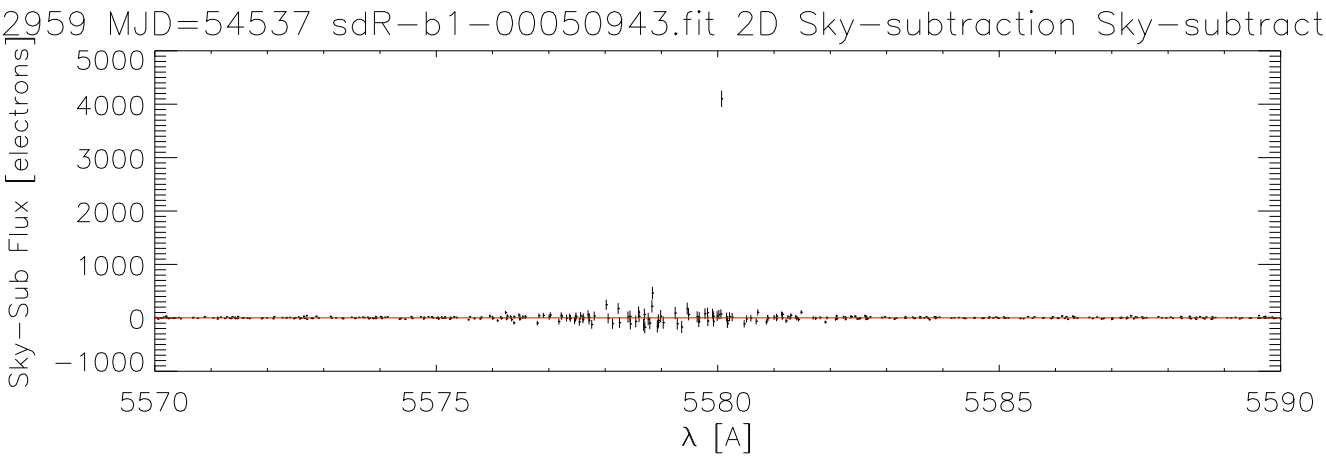

PLATE=2959 MJD=54537 sdR-b1-00050943.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

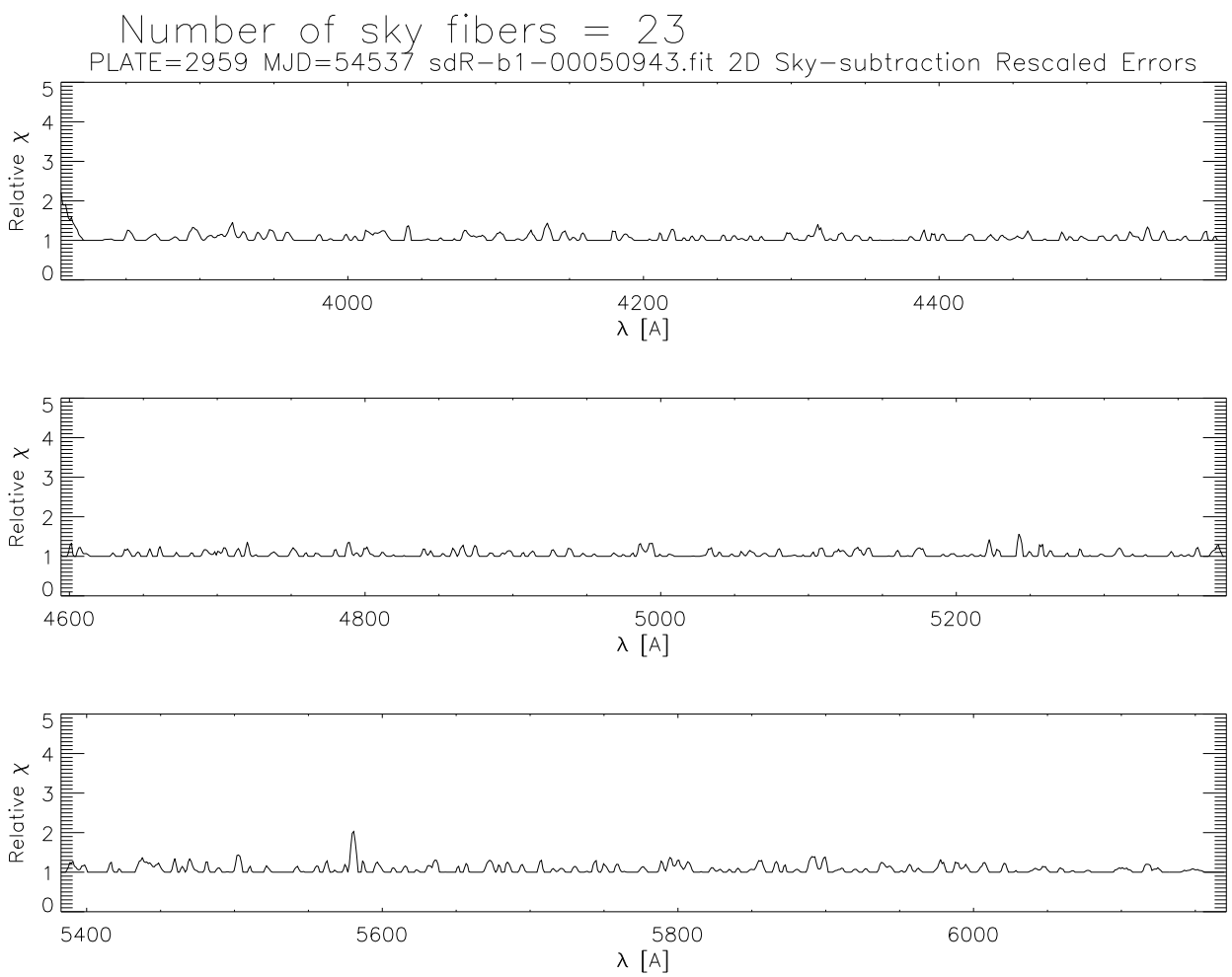

PLATE=2959 MJD=54537 sdR-b1-00050943.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
5000
4000
3000
2000
1000
0
-1000
5570
5575
5580
5585
5590
λ [A]

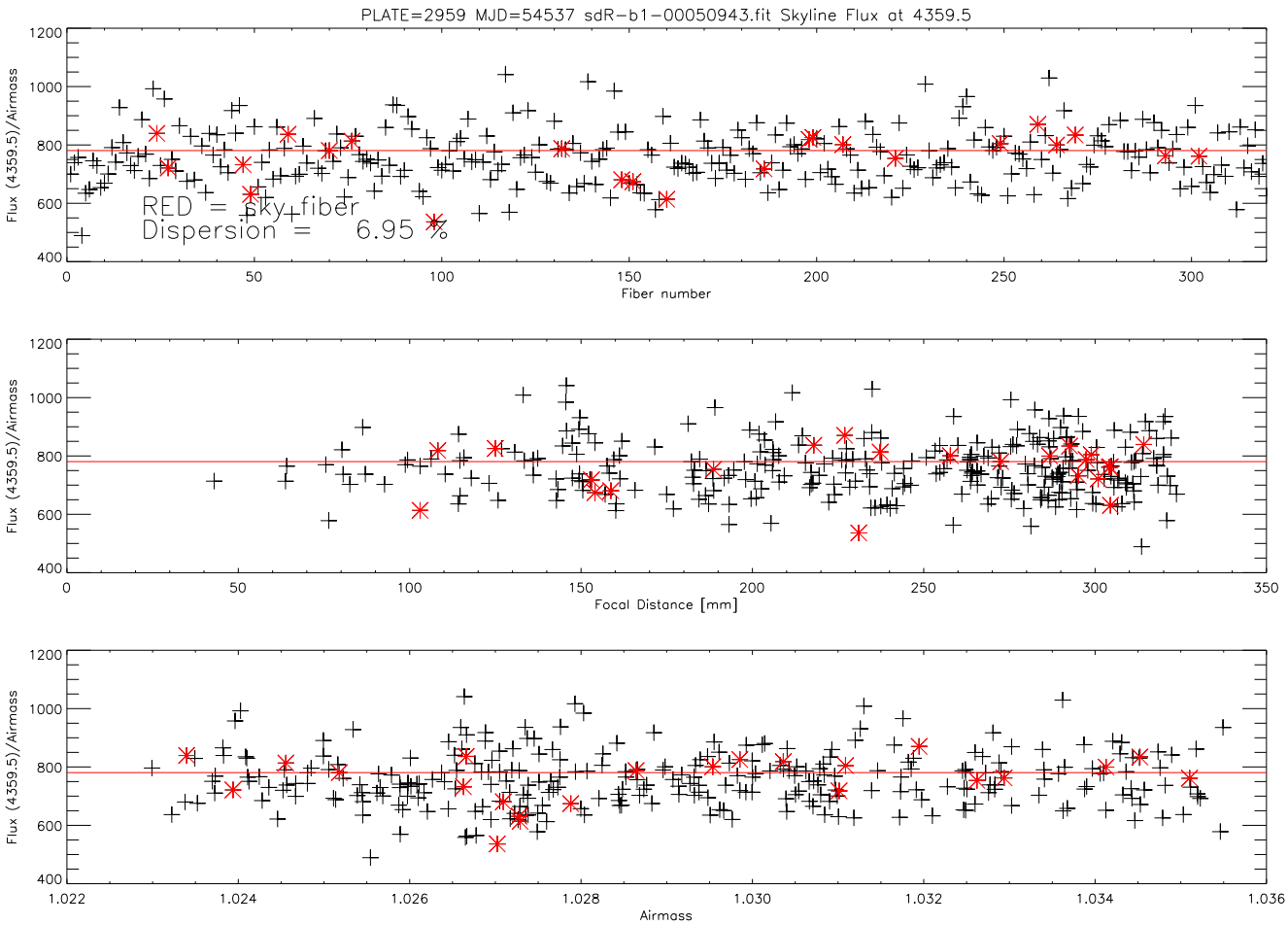

Number of sky fibers = 23
PLATE=2959 MJD=54537 sdR-b1-00050943.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

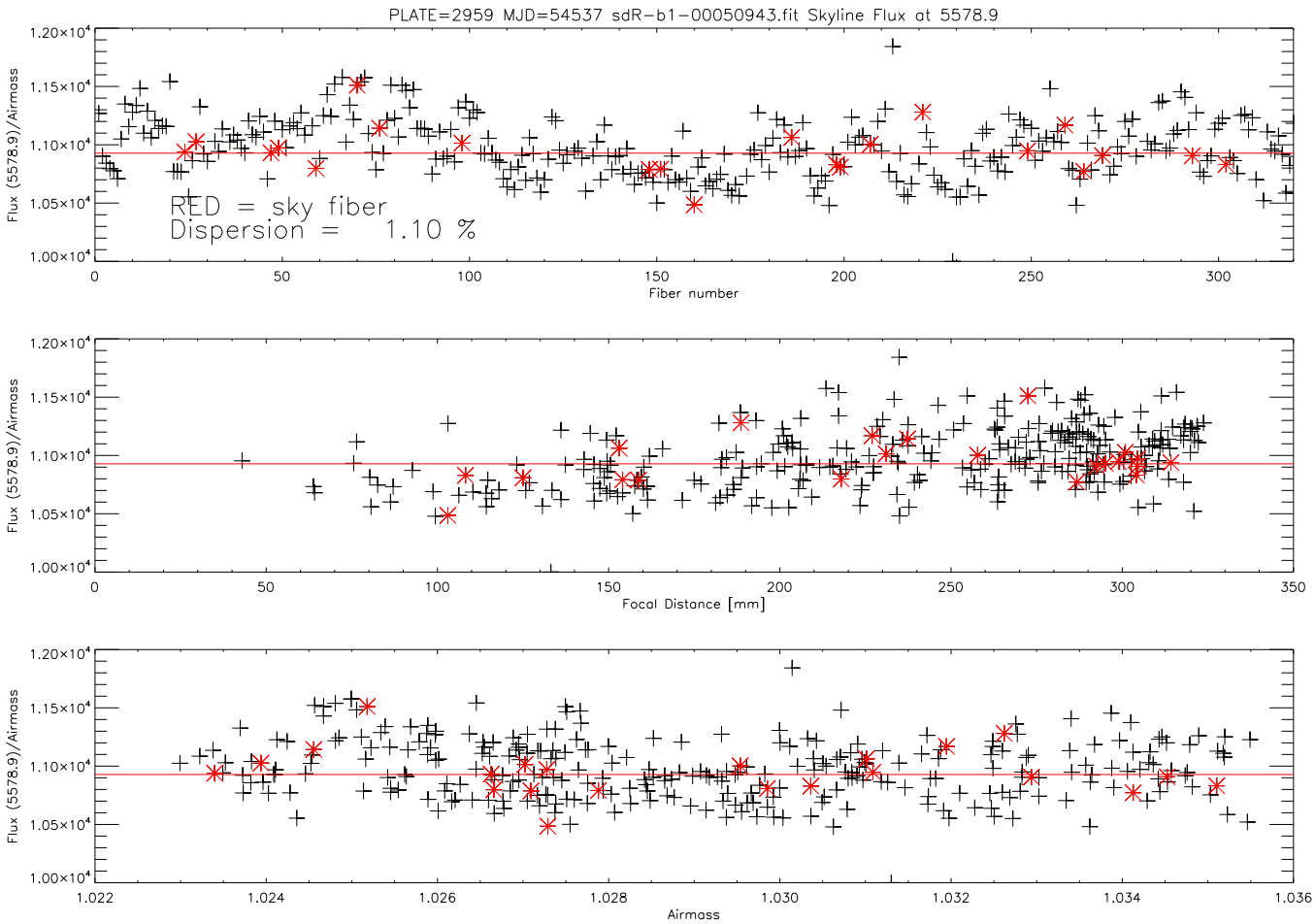

PLATE=2959 MJD=54537 sdR-b1-00050943.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

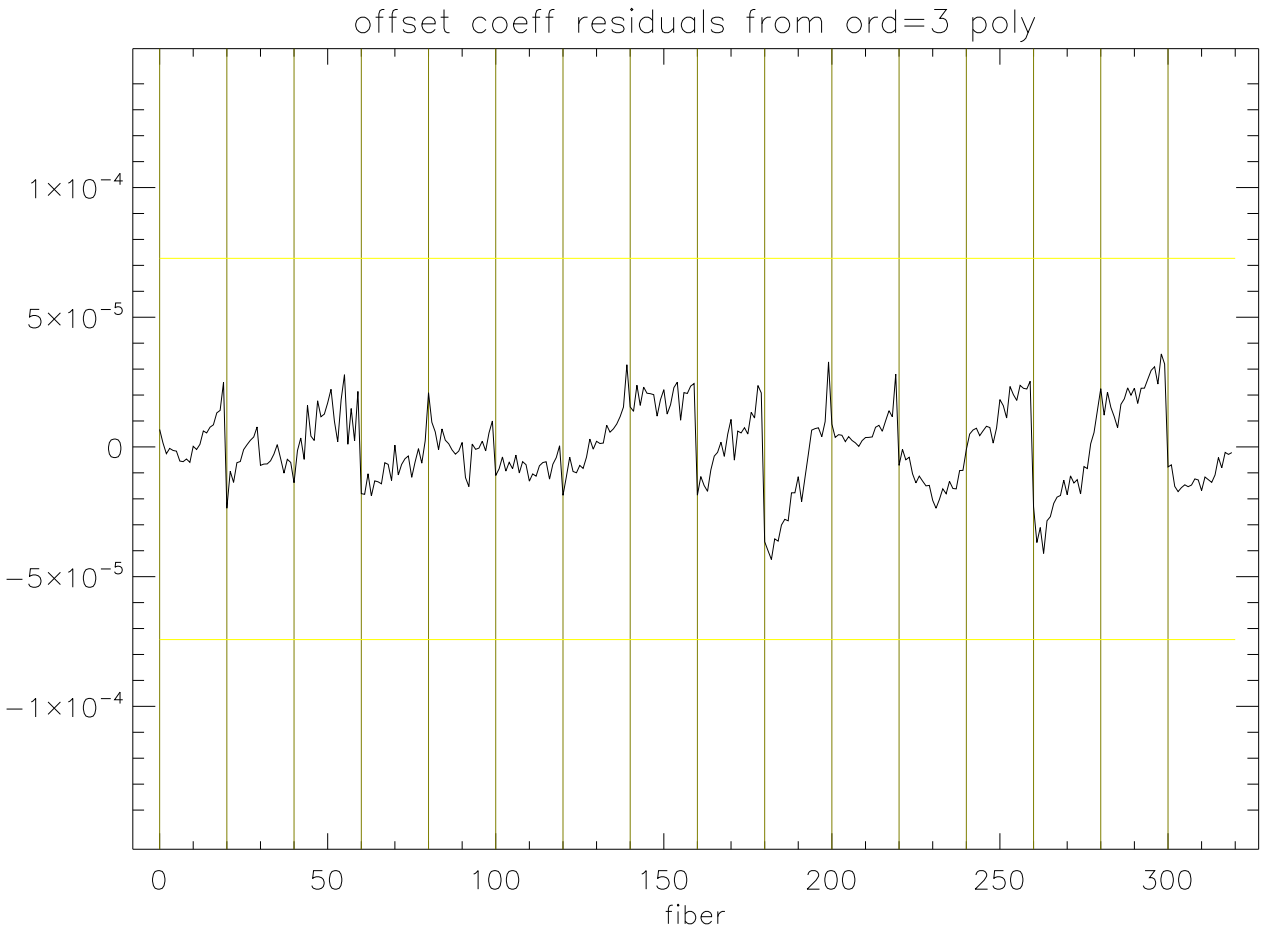

PLATE=2959 MJD=54537 sdR-b1-00050943.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

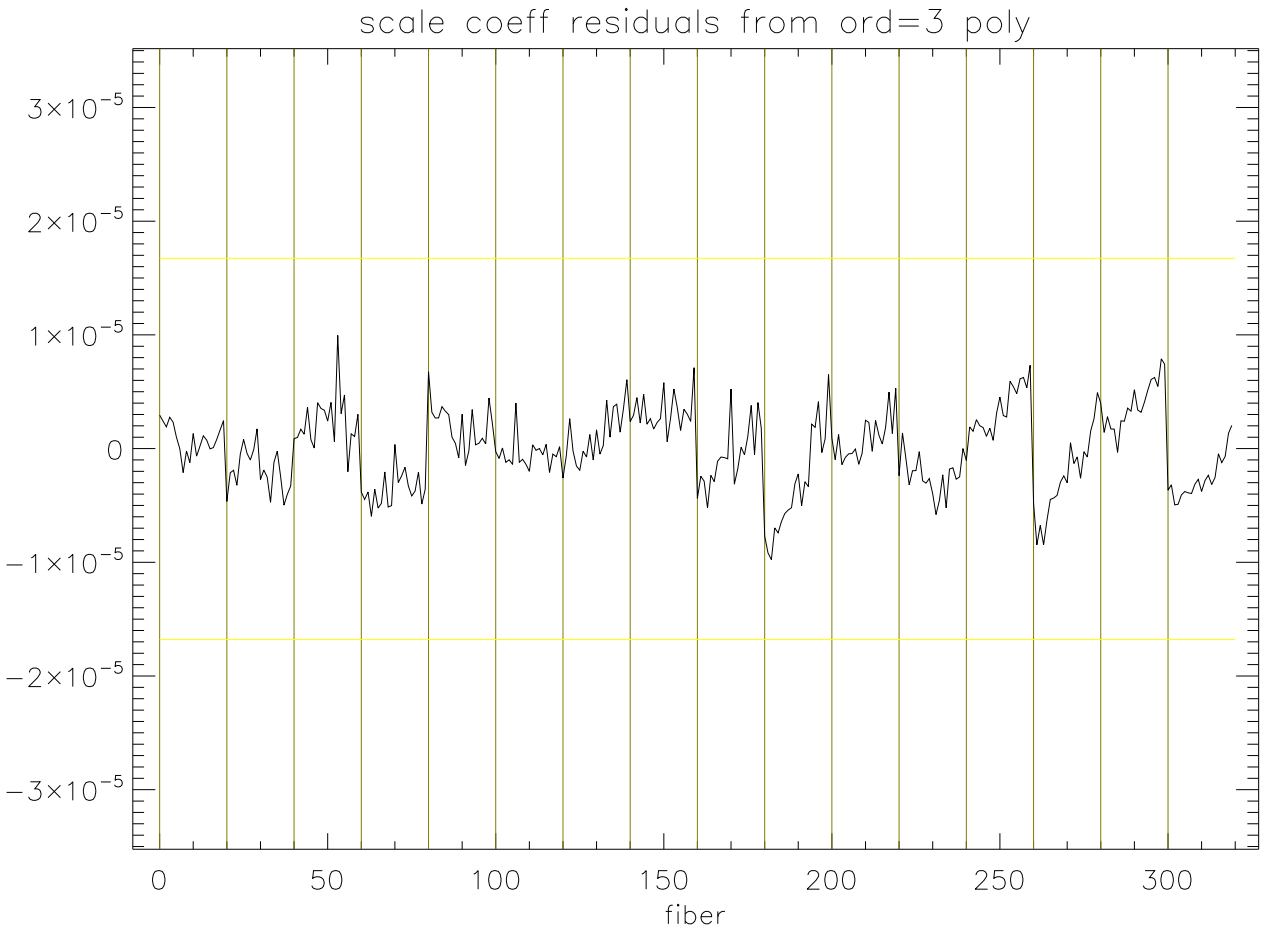

PLATE=2959 MJD=54537 sdR-b1-00050943.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
5000
4000
3000
2000
1000
0
-1000
5570
5575
5580
5585
5590
λ [A]

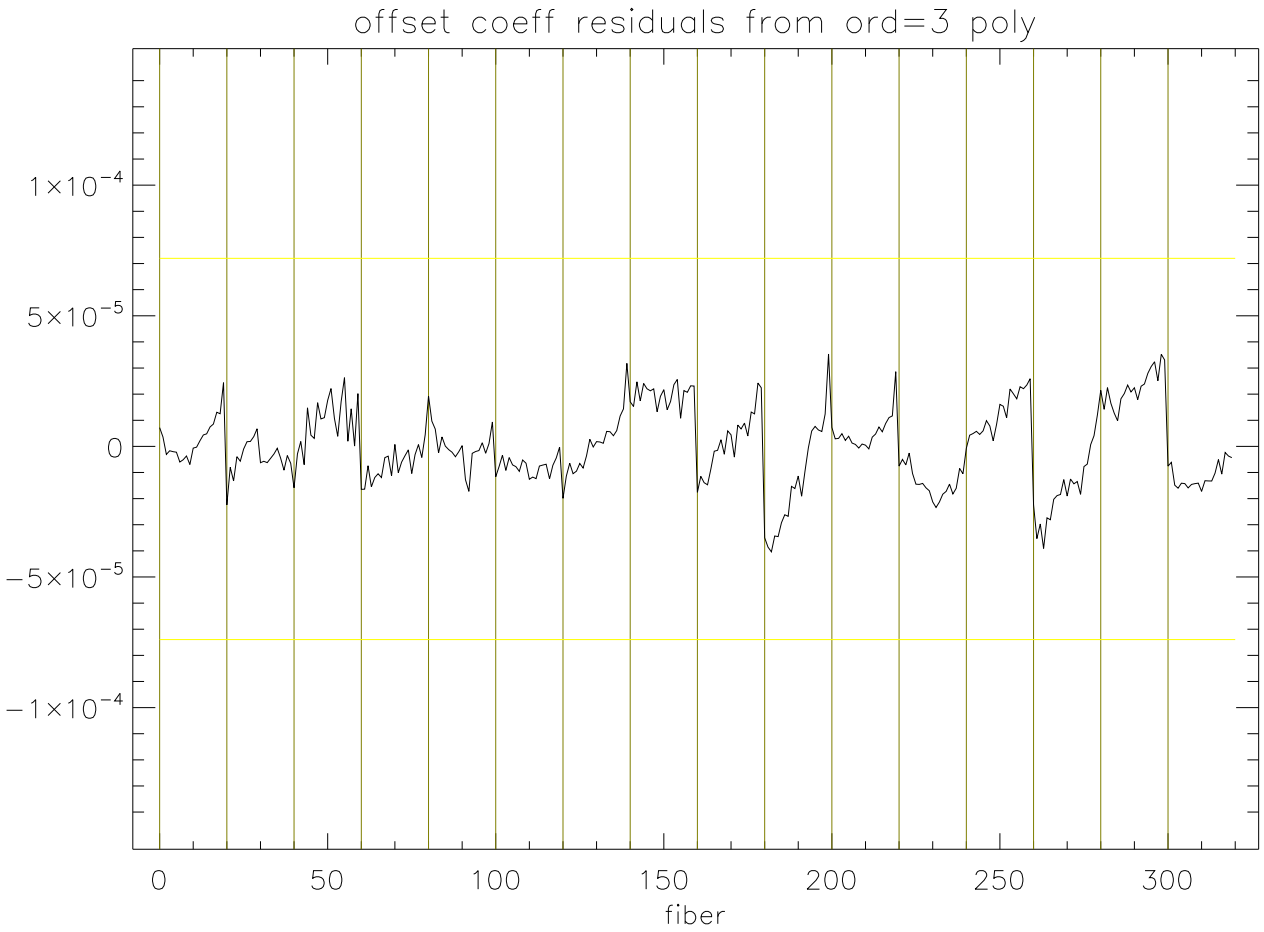

Number of sky fibers = 23
PLATE=2959 MJD=54537 sdR-b1-00050943.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

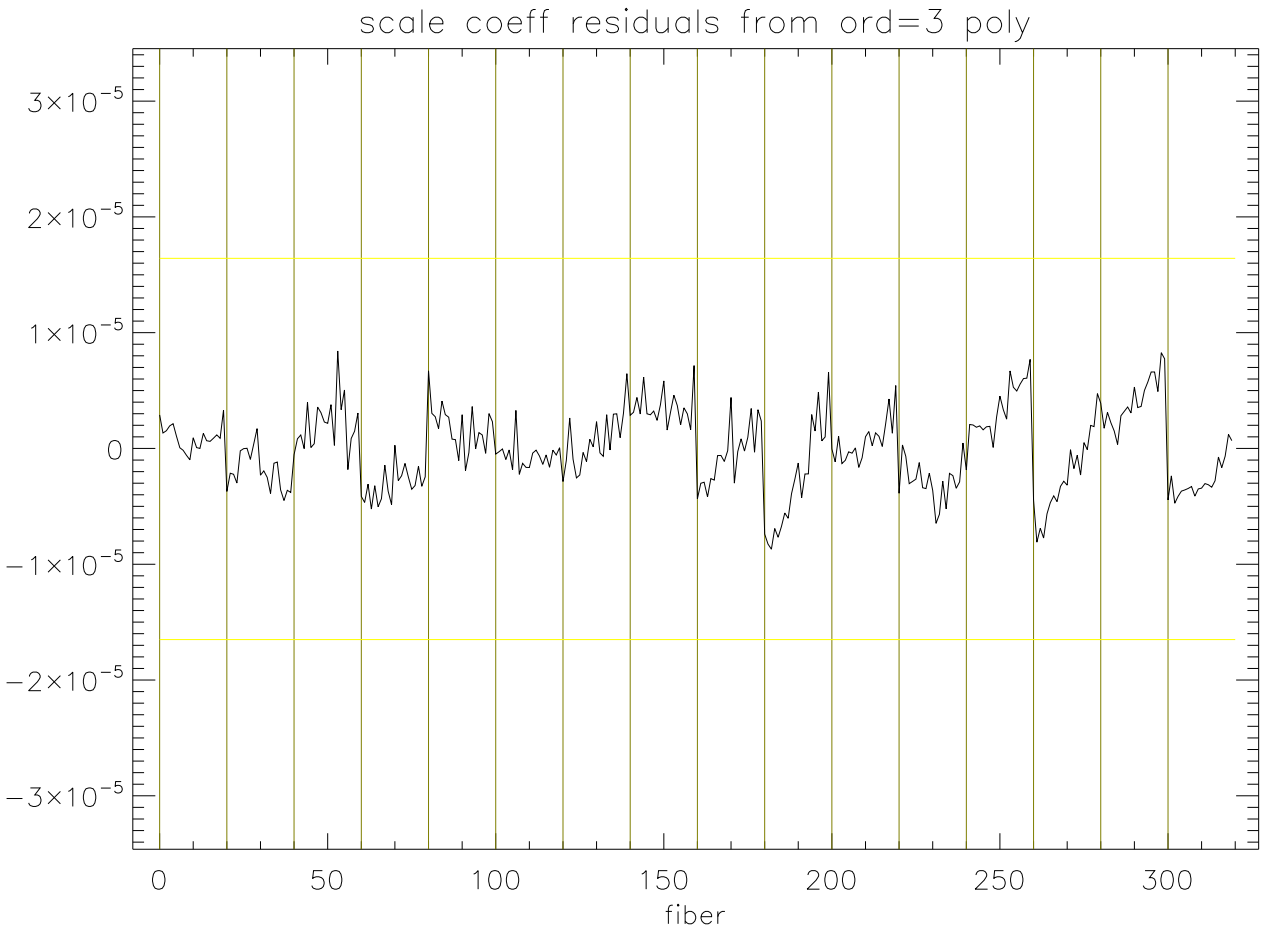

PLATE=2959 MJD=54537 sdR-b1-00050943.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 6.95 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

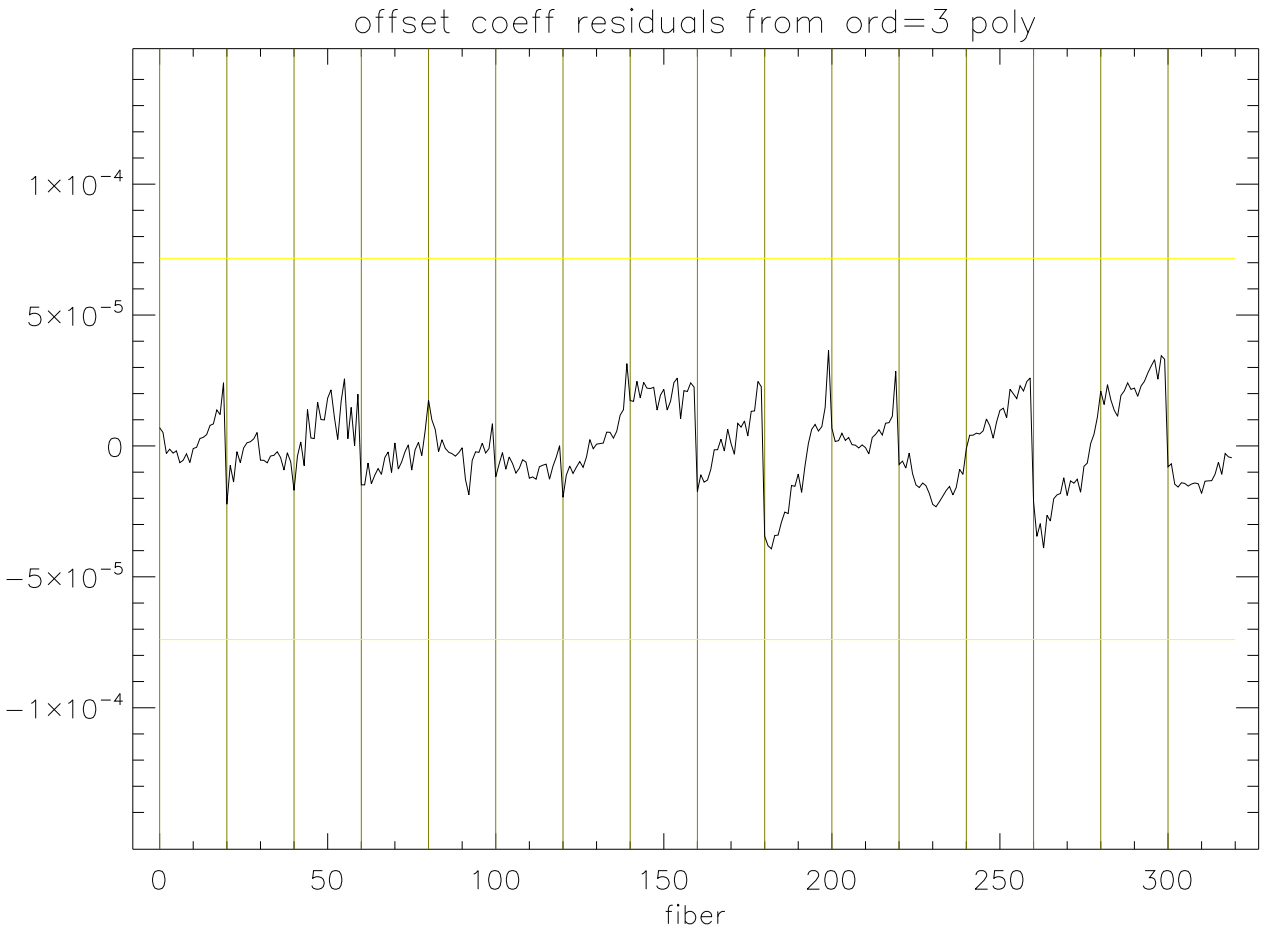

PLATE=2959 MJD=54537 sdR-b1-00050943.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.10 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

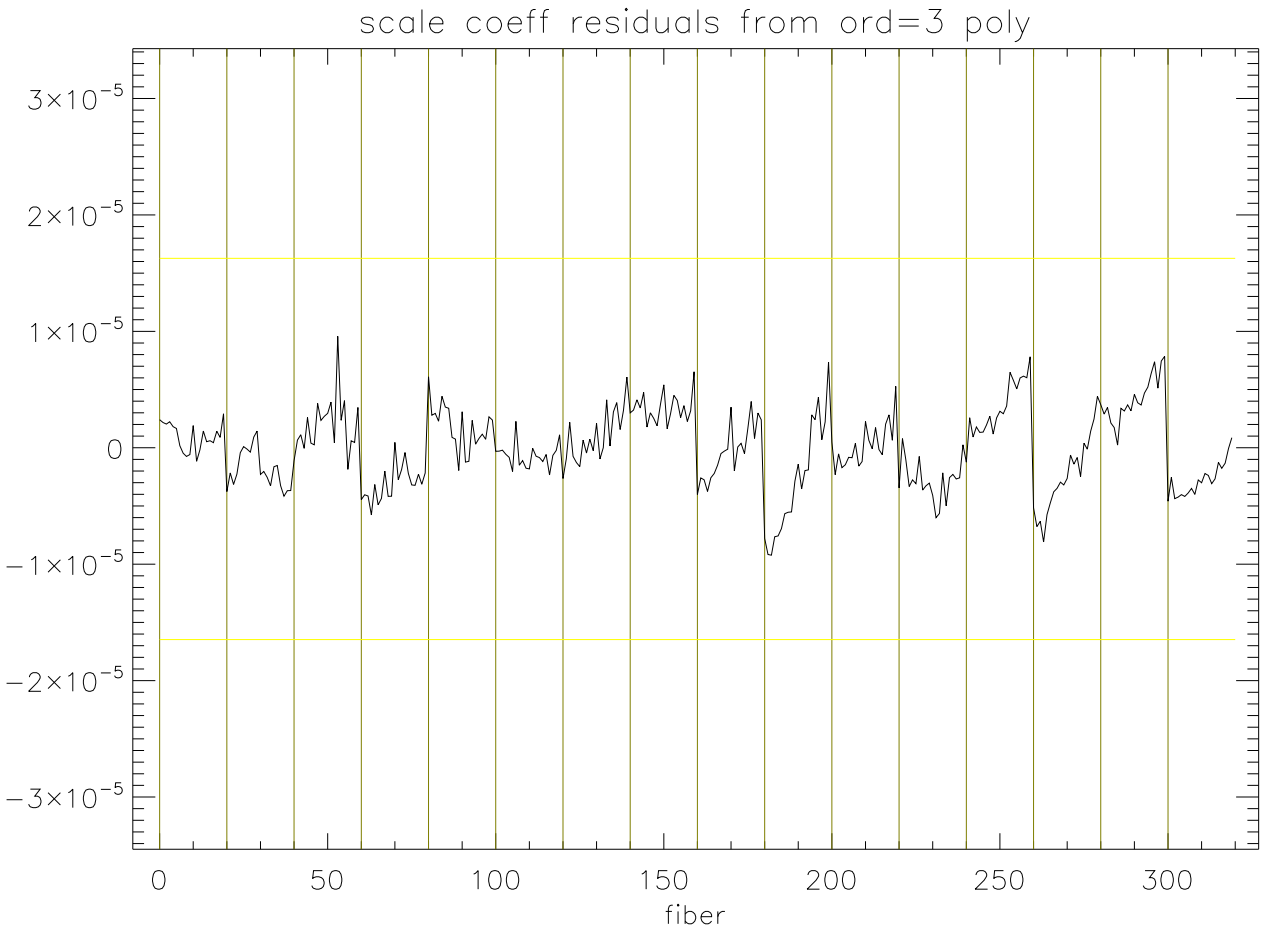

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

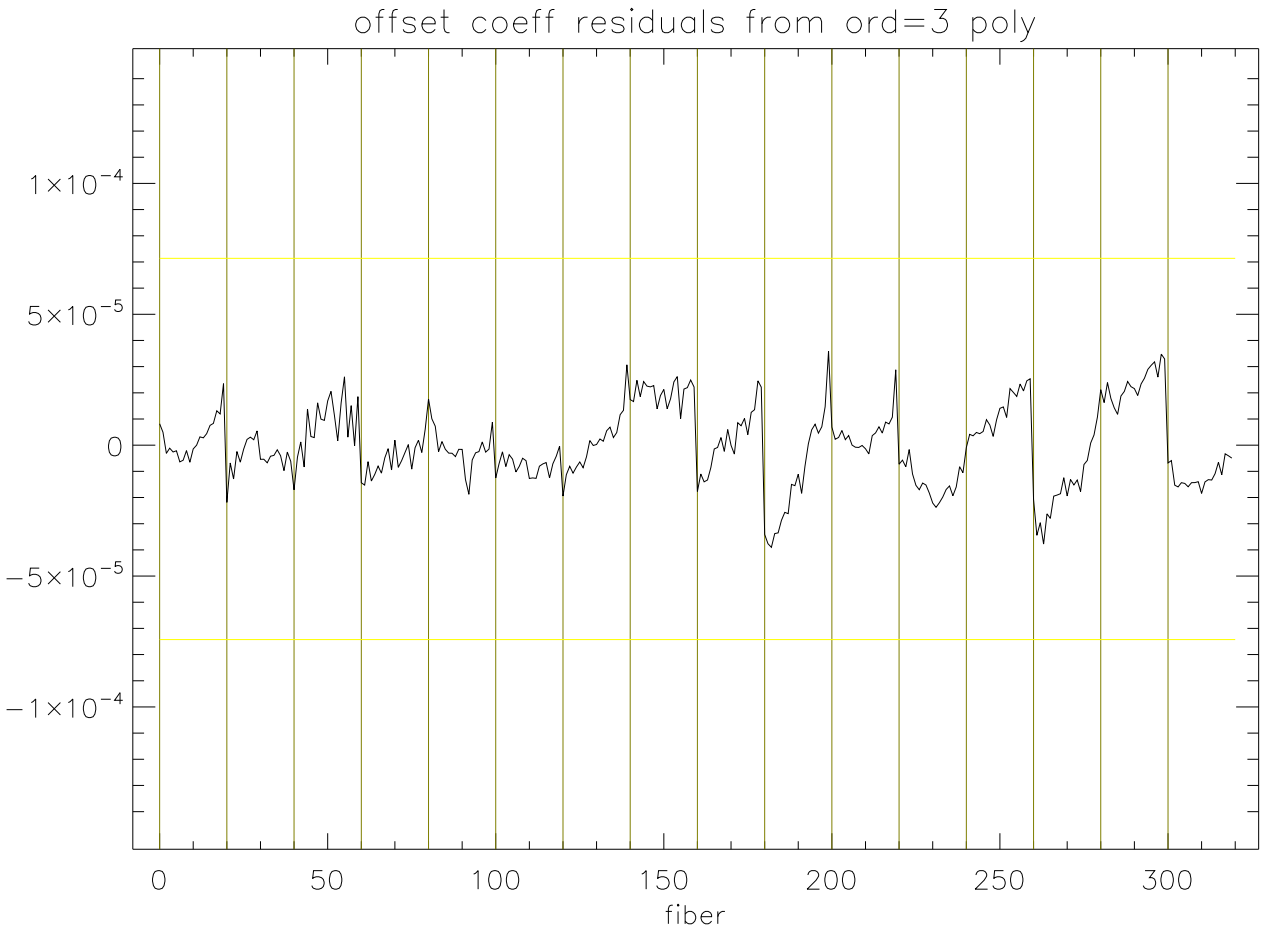

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

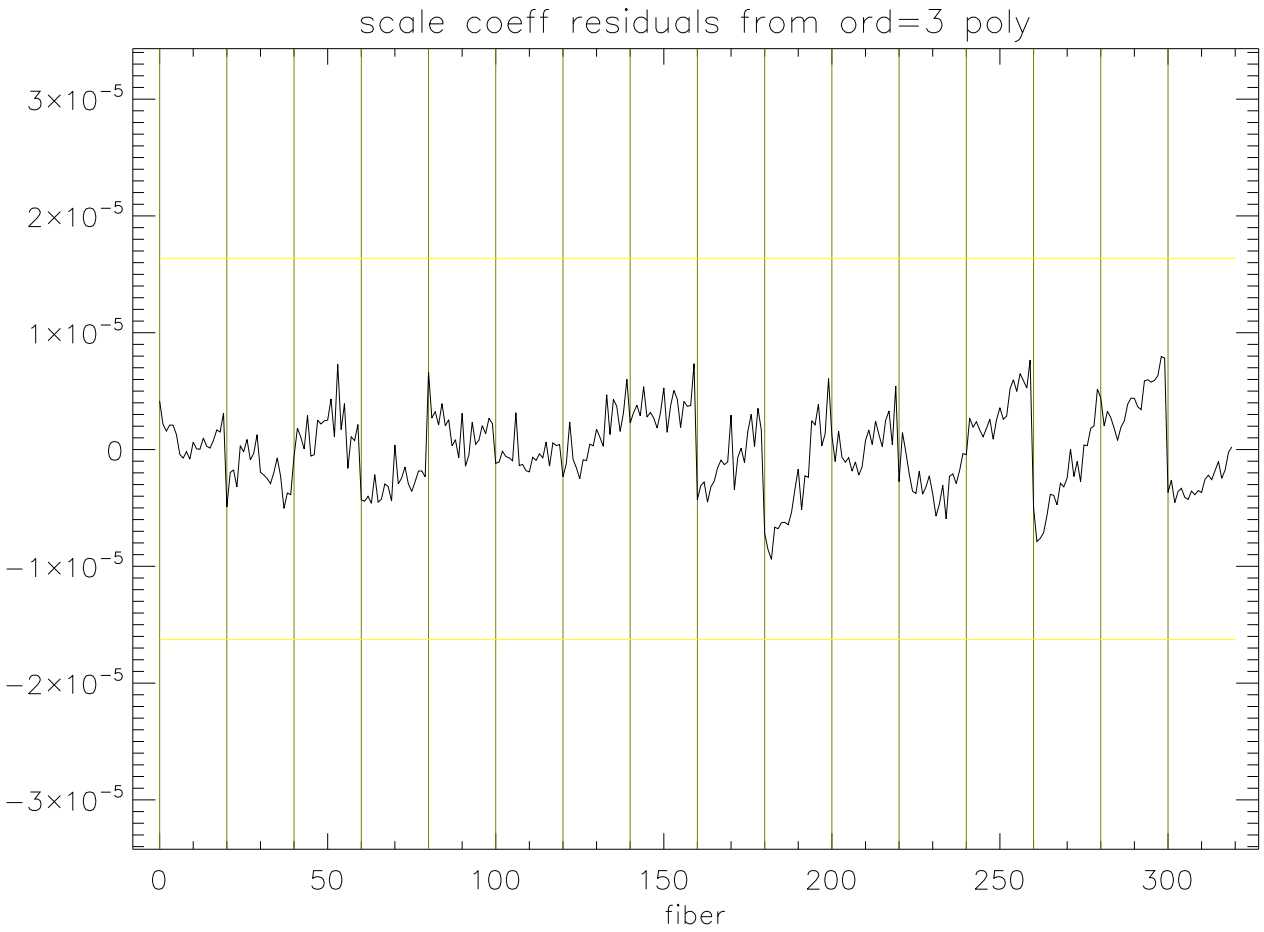

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

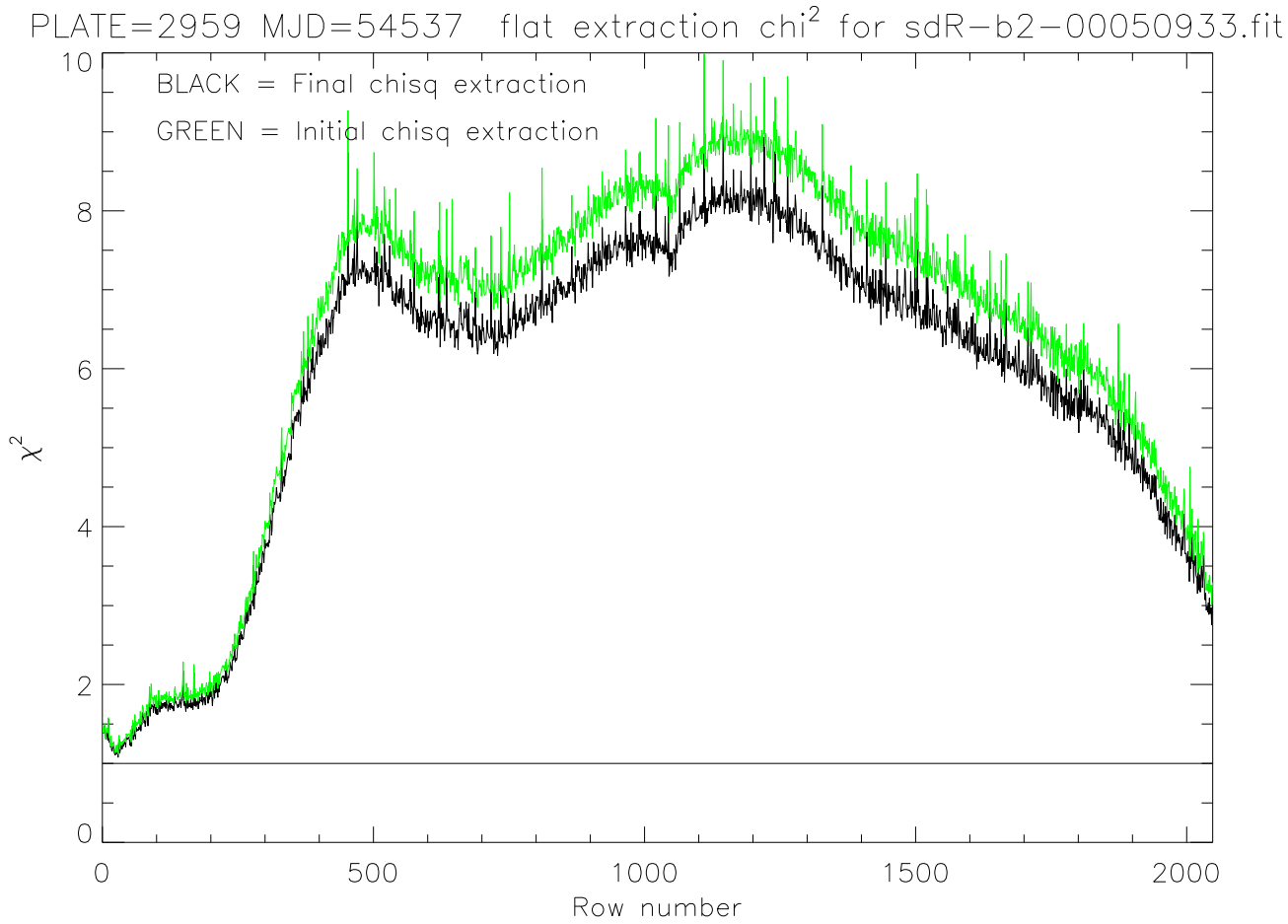

scale coeff residuals from ord=3 poly
3×10^-5
2×10^-5
1×10^-5
0
−1×10^-5
−2×10^-5
−3×10^-5
0
50
100
150
200
250
300
fiber

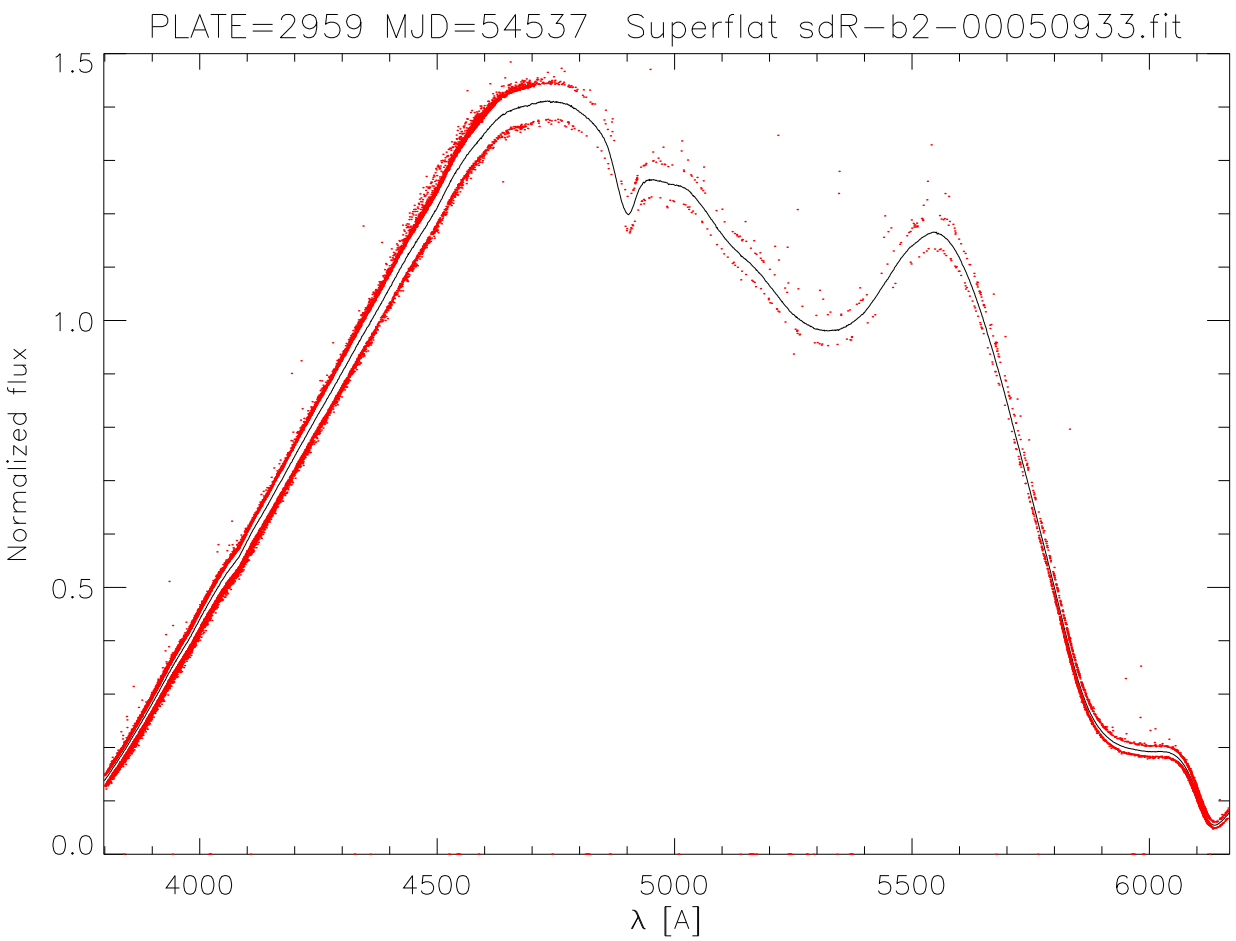

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

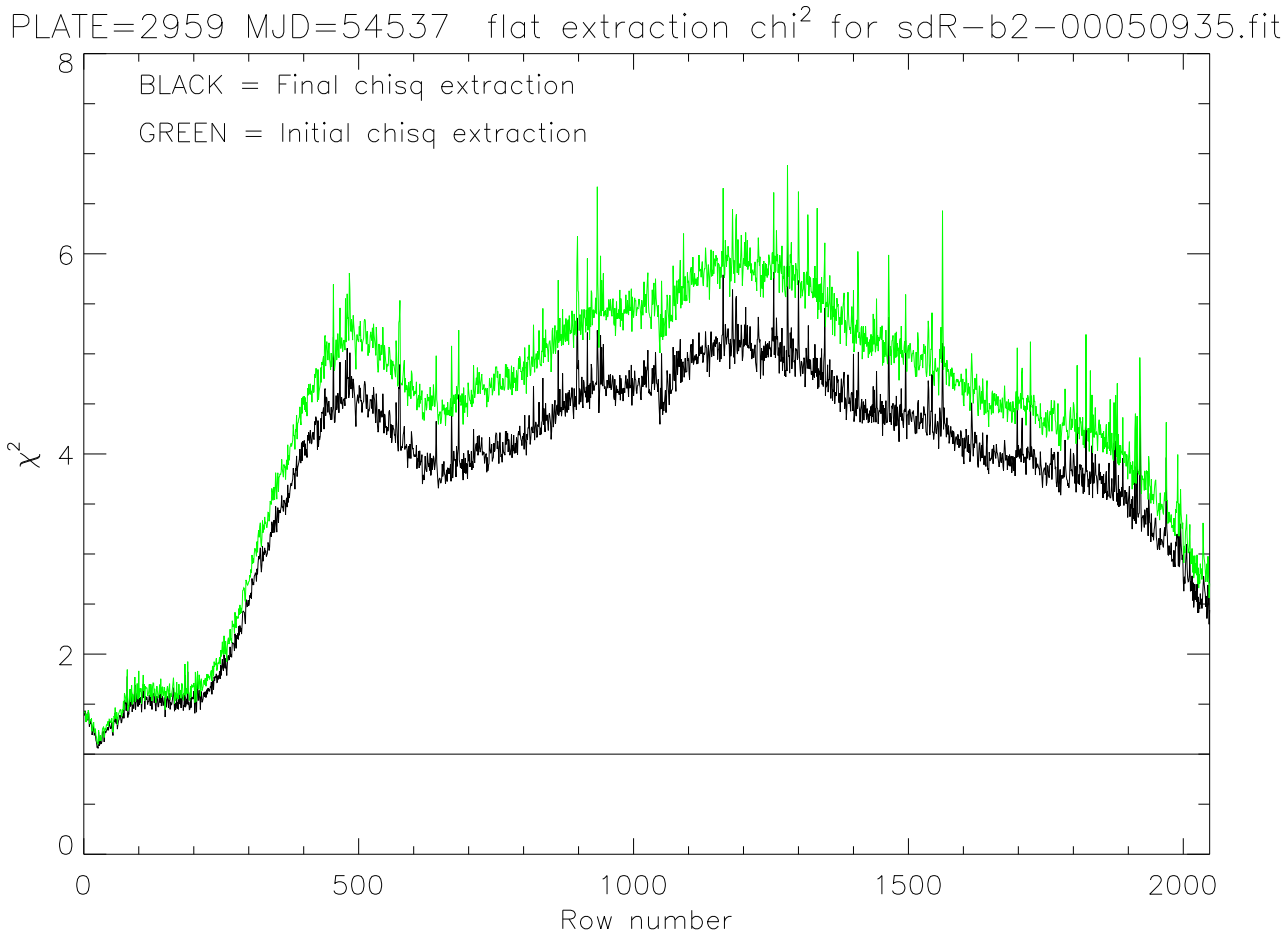

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

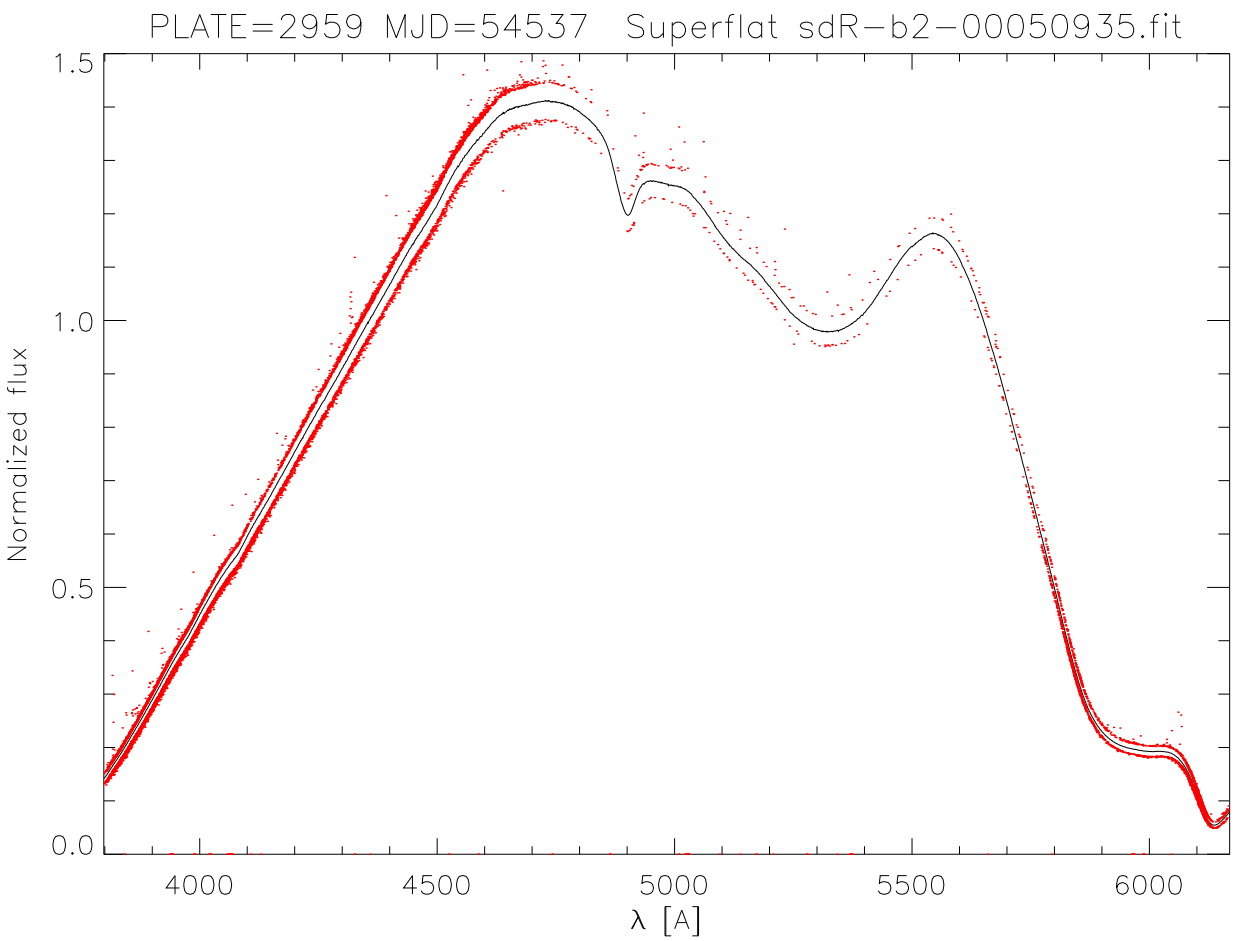

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

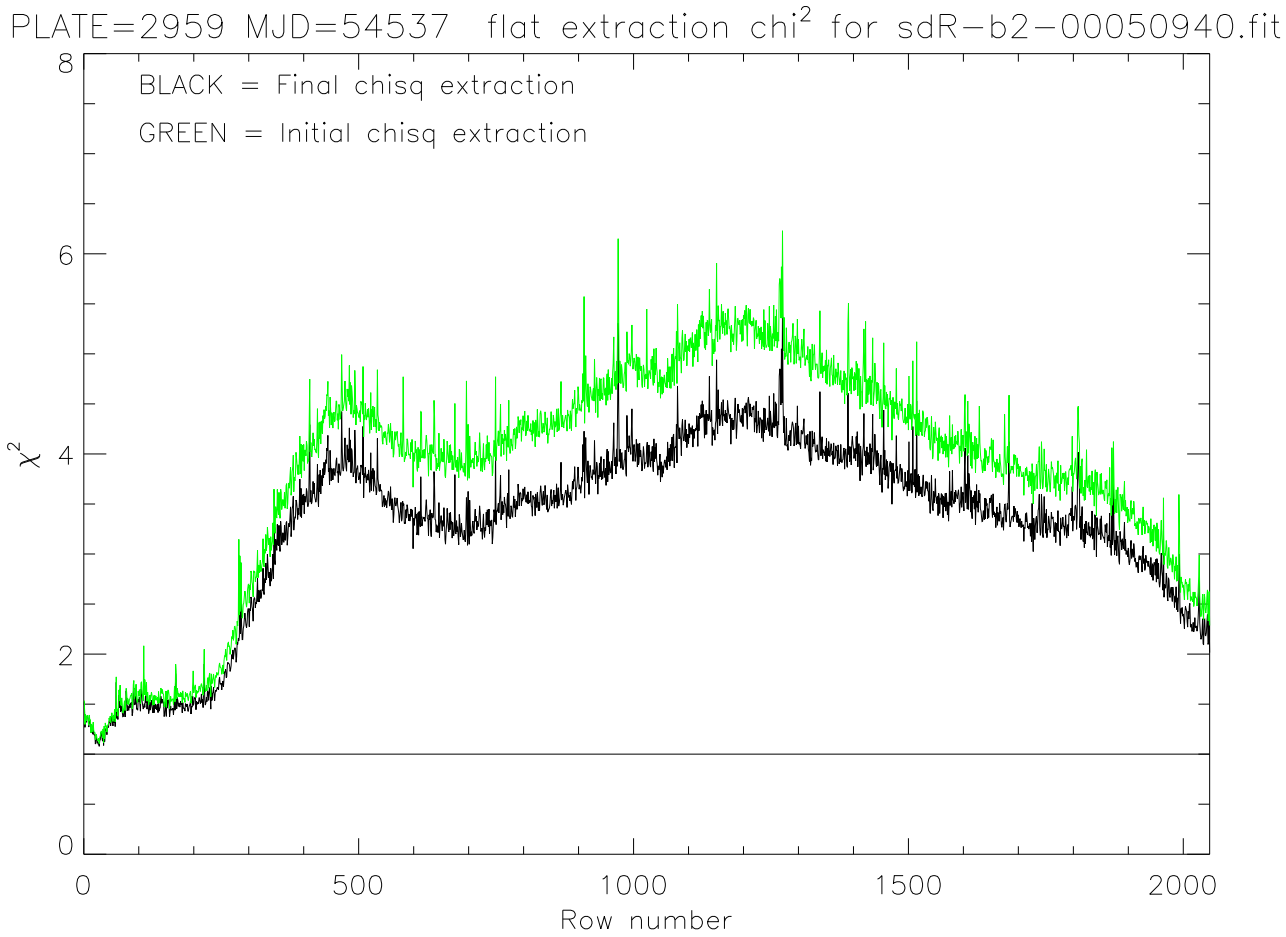

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

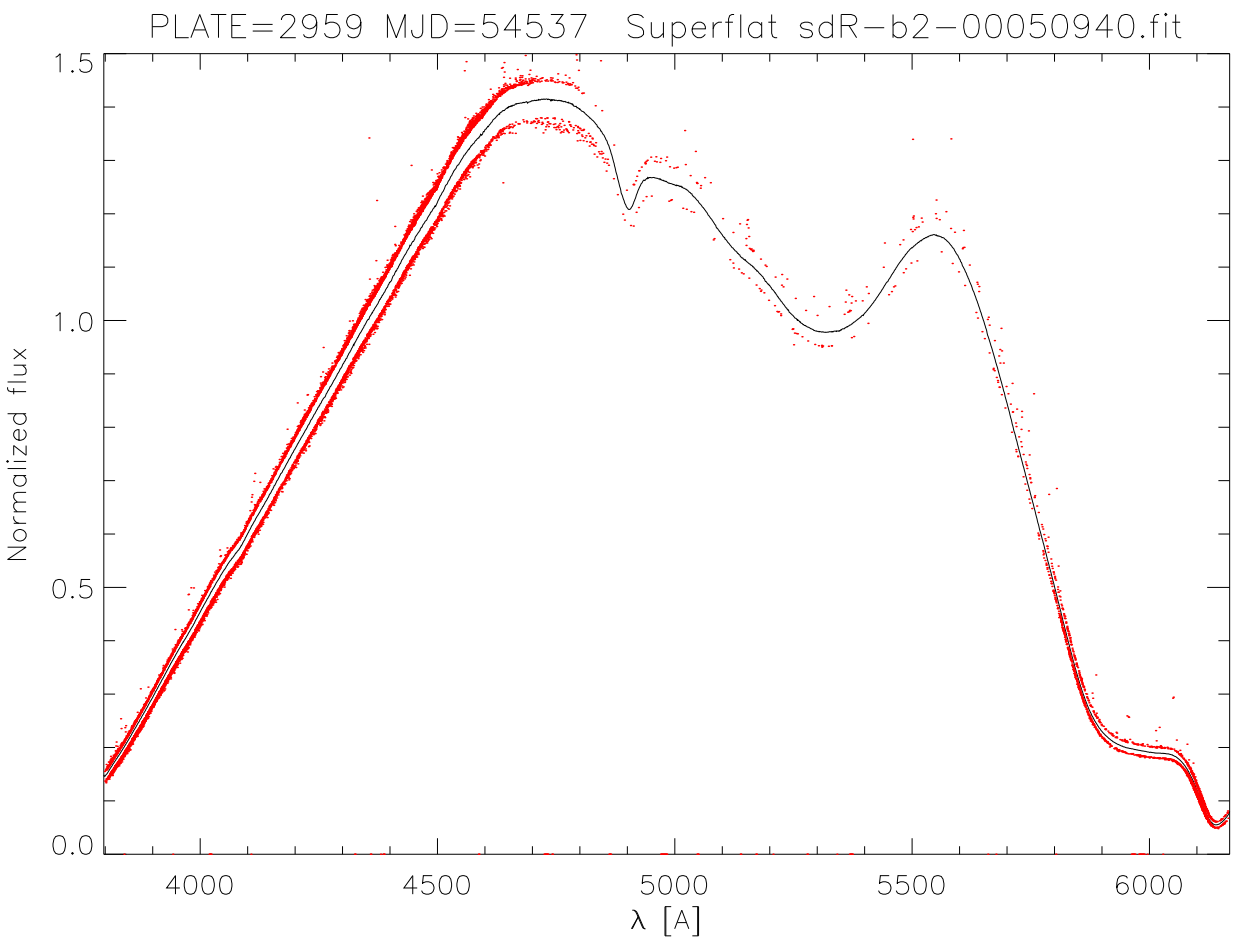

PLATE=2959 MJD=54537 flat extraction chi^2 for sdR−b2−00050933.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

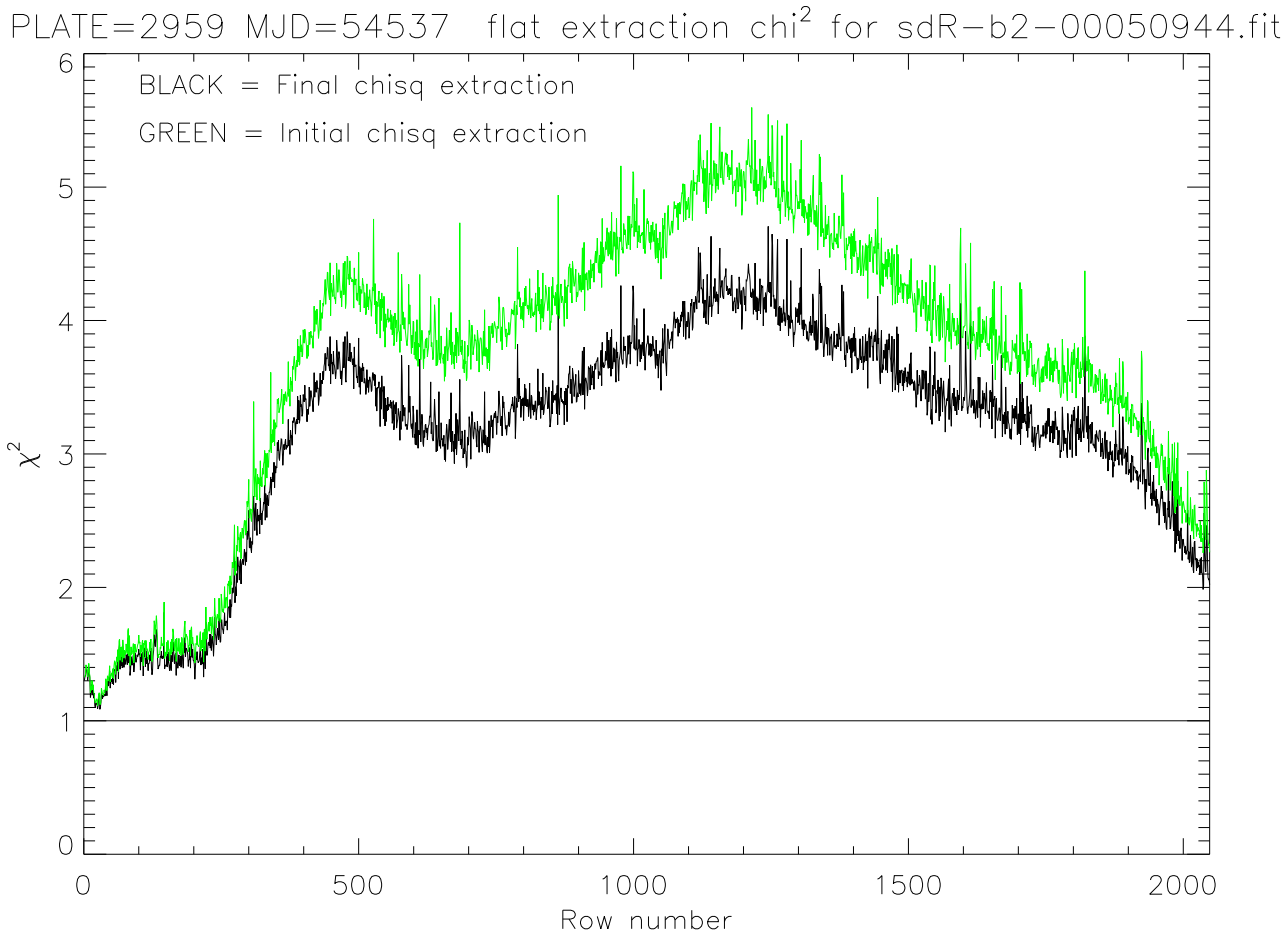

PLATE=2959 MJD=54537 Superflat sdR-b2-00050933.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

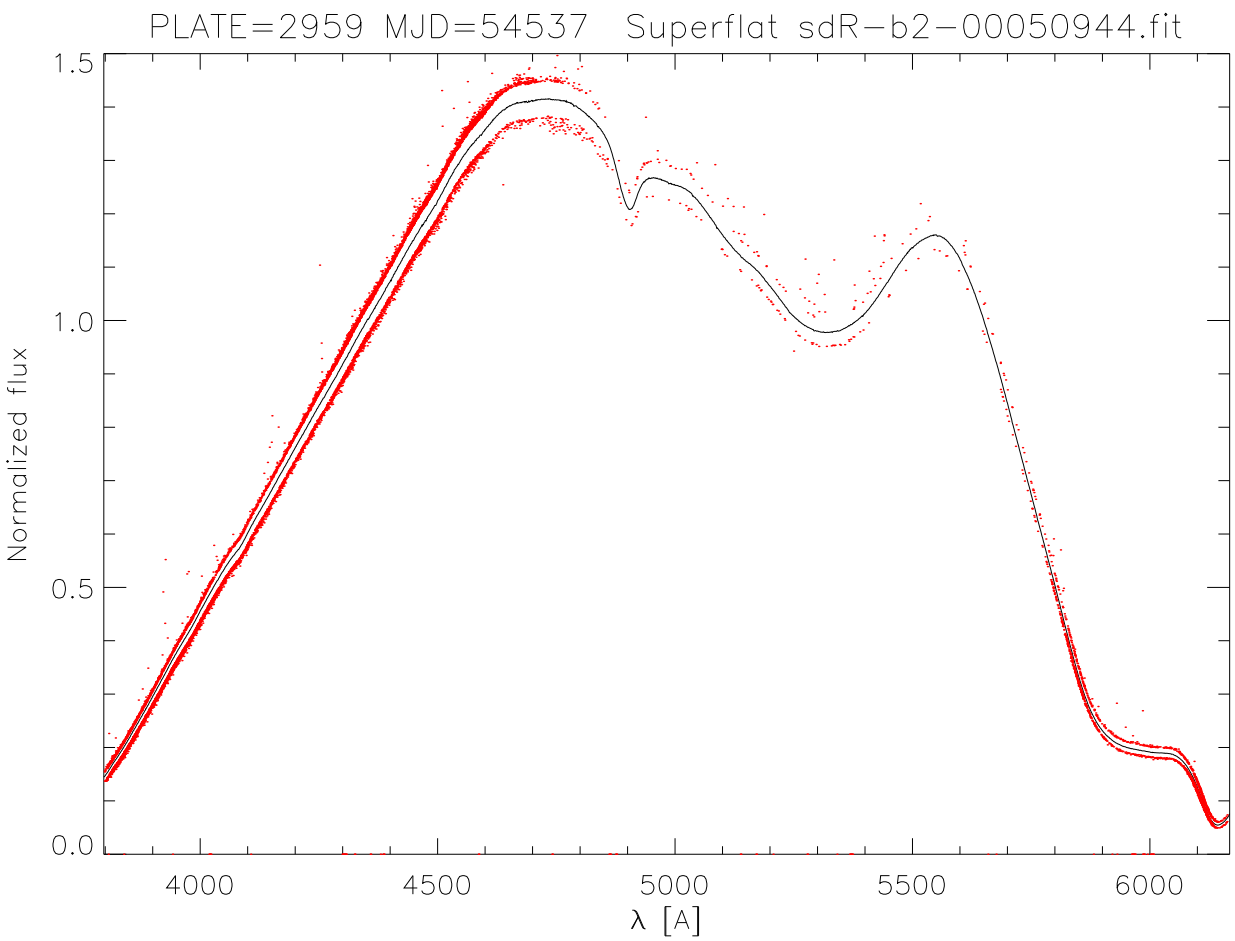

PLATE=2959 MJD=54537 flat extraction chi^2 for sdR−b2−00050935.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

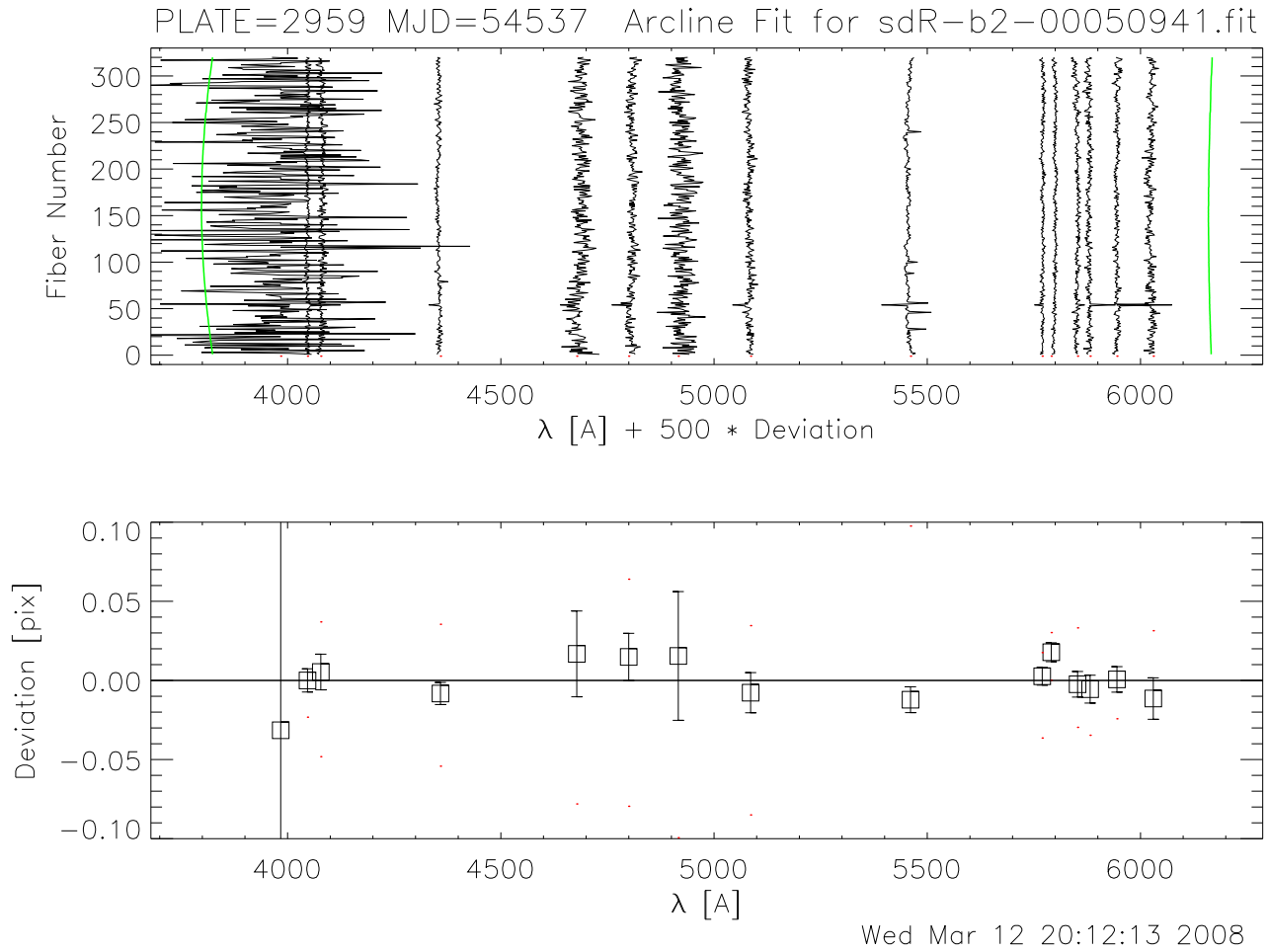

PLATE=2959 MJD=54537 Superflat sdR-b2-00050935.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

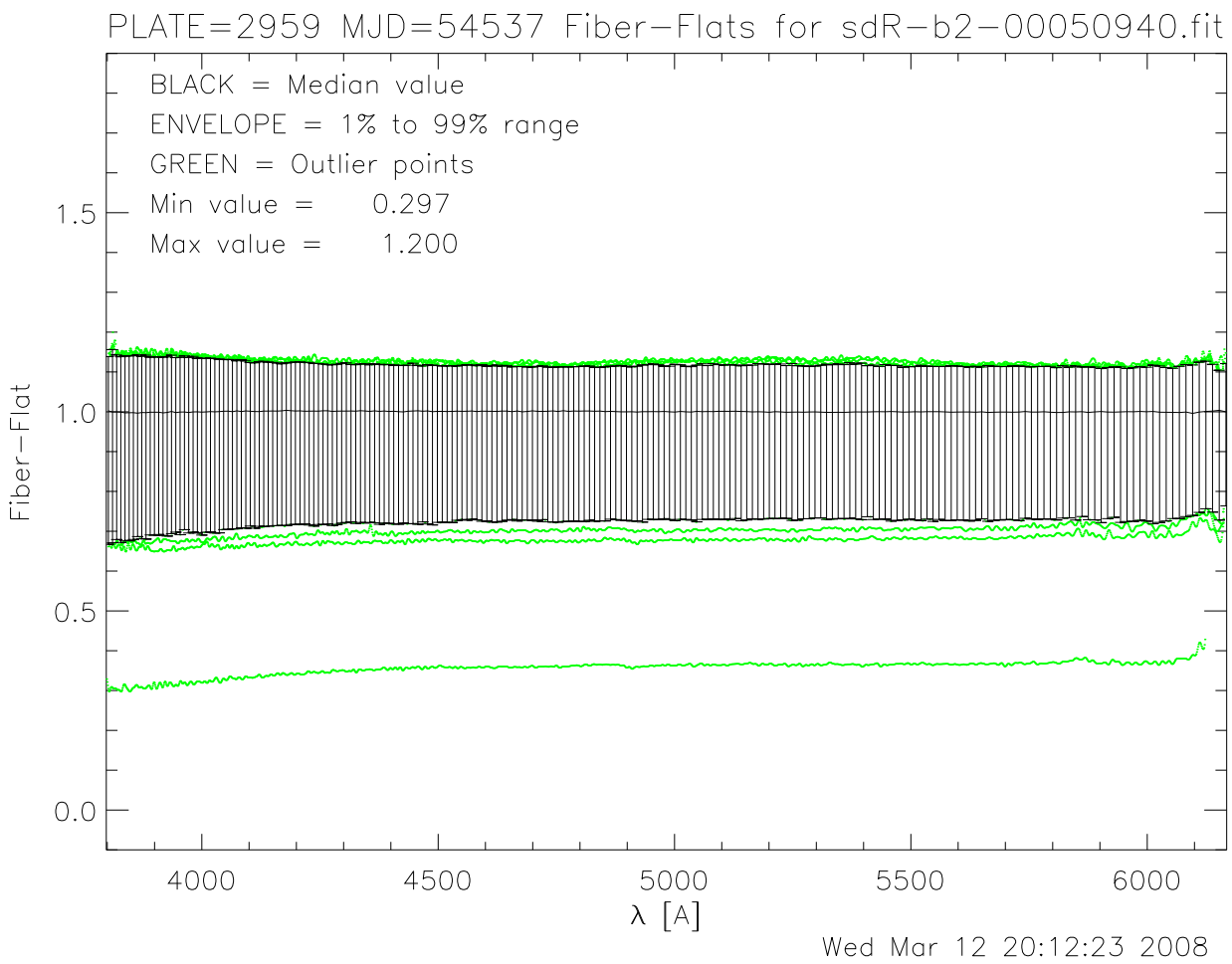

PLATE=2959 MJD=54537 flat extraction chi^2 for sdR−b2−00050940.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

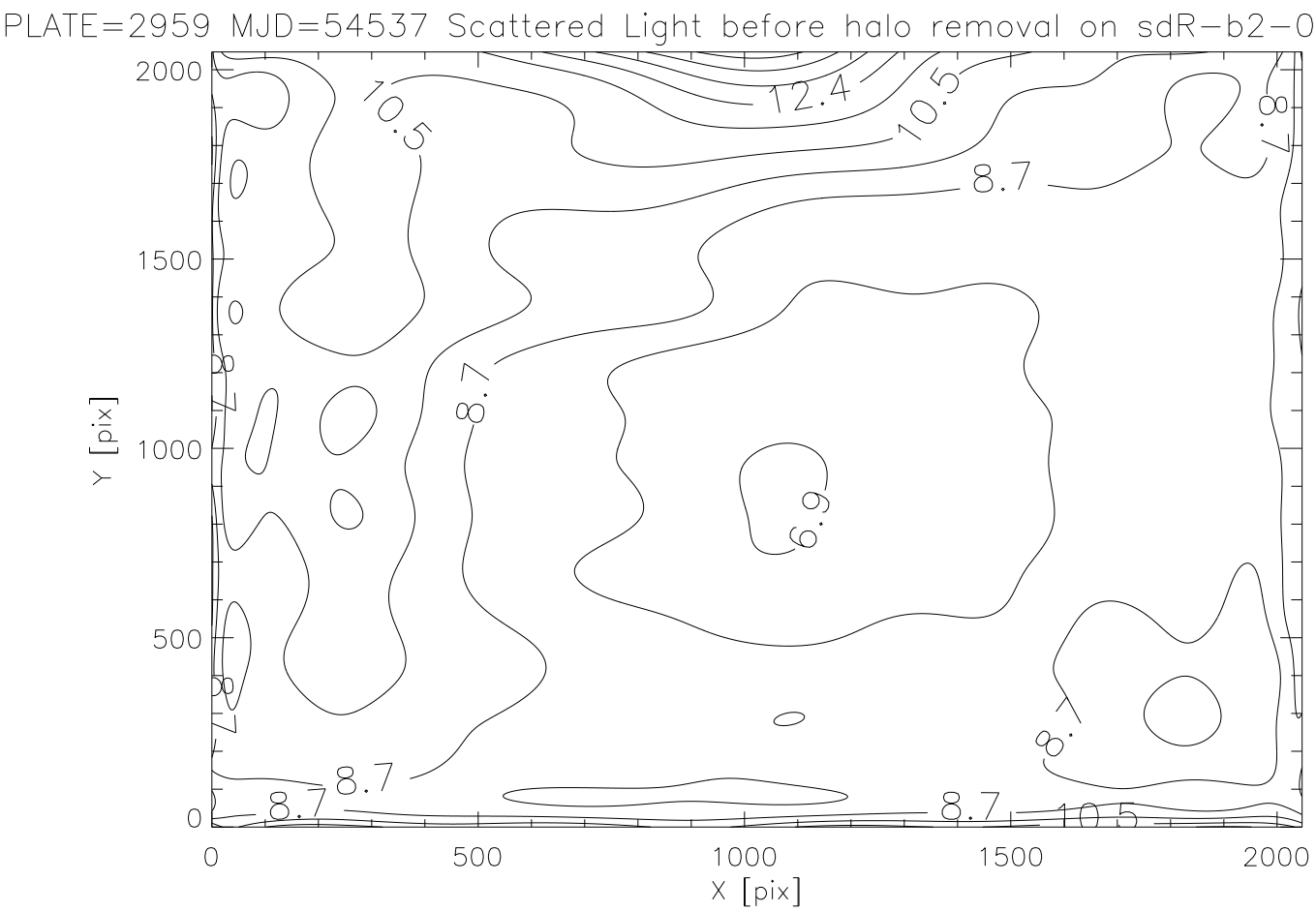

PLATE=2959 MJD=54537 Superflat sdR-b2-00050940.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

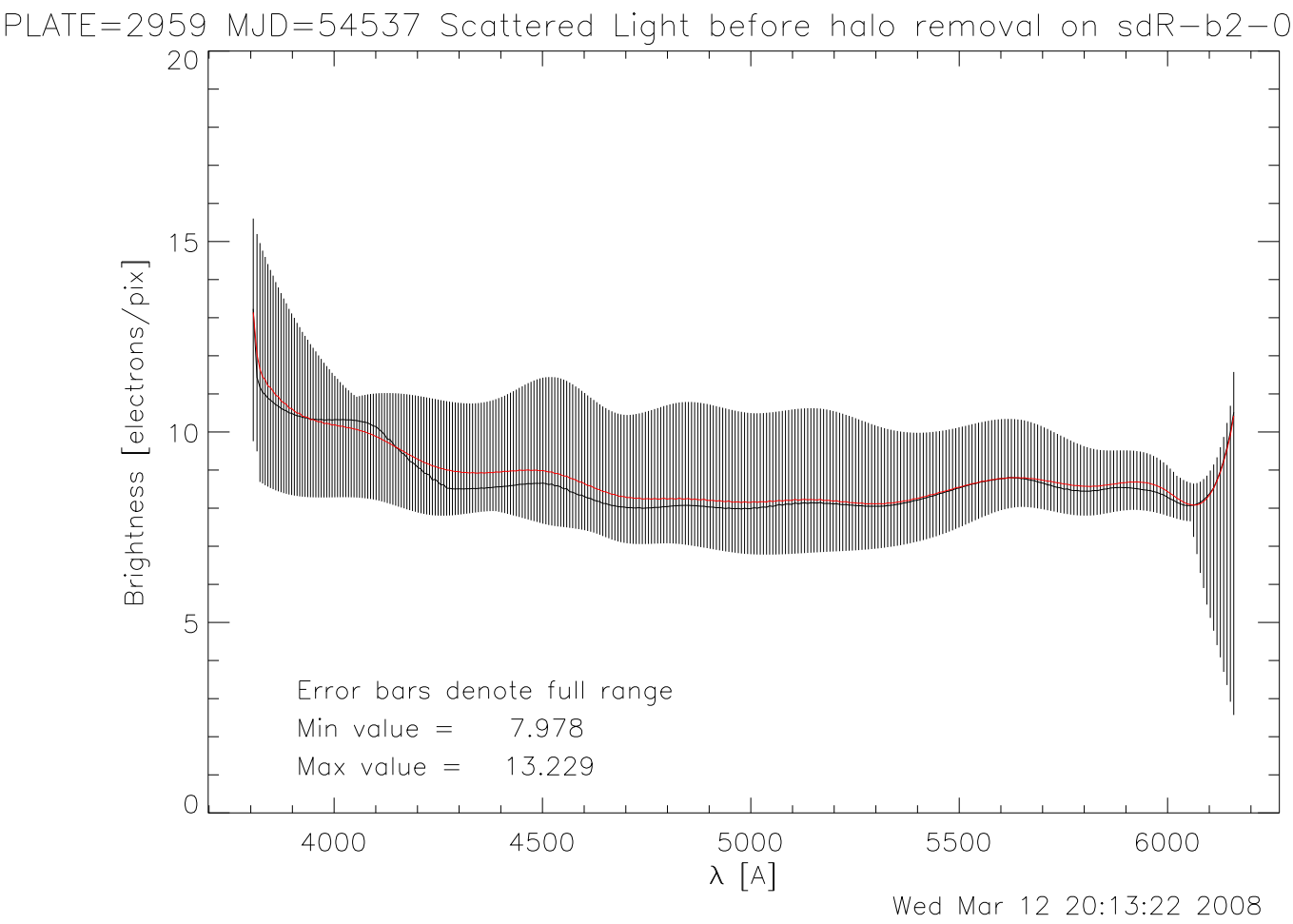

PLATE=2959 MJD=54537 flat extraction chi^2 for sdR−b2−00050944.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

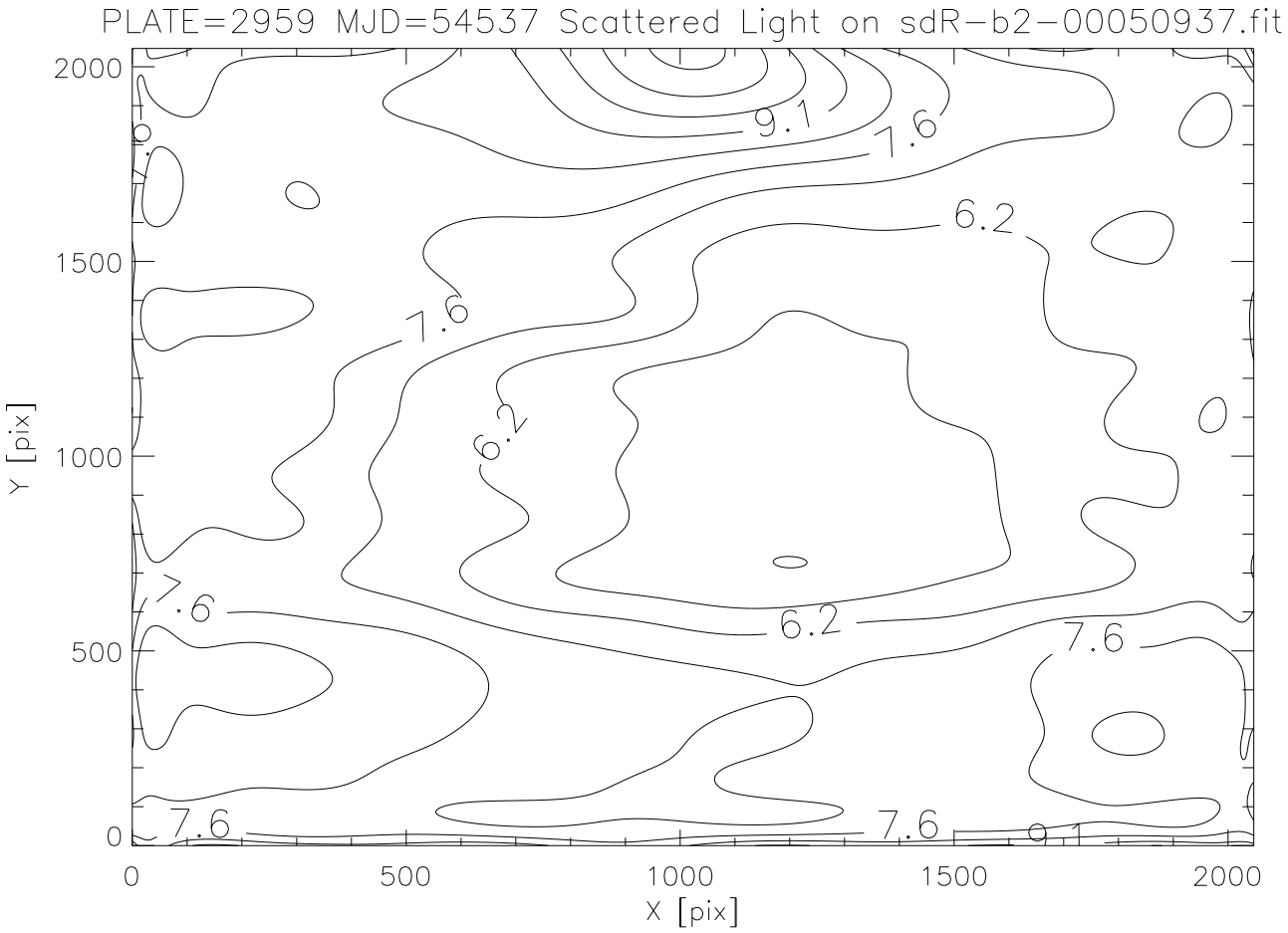

PLATE=2959 MJD=54537 Superflat sdR-b2-00050944.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

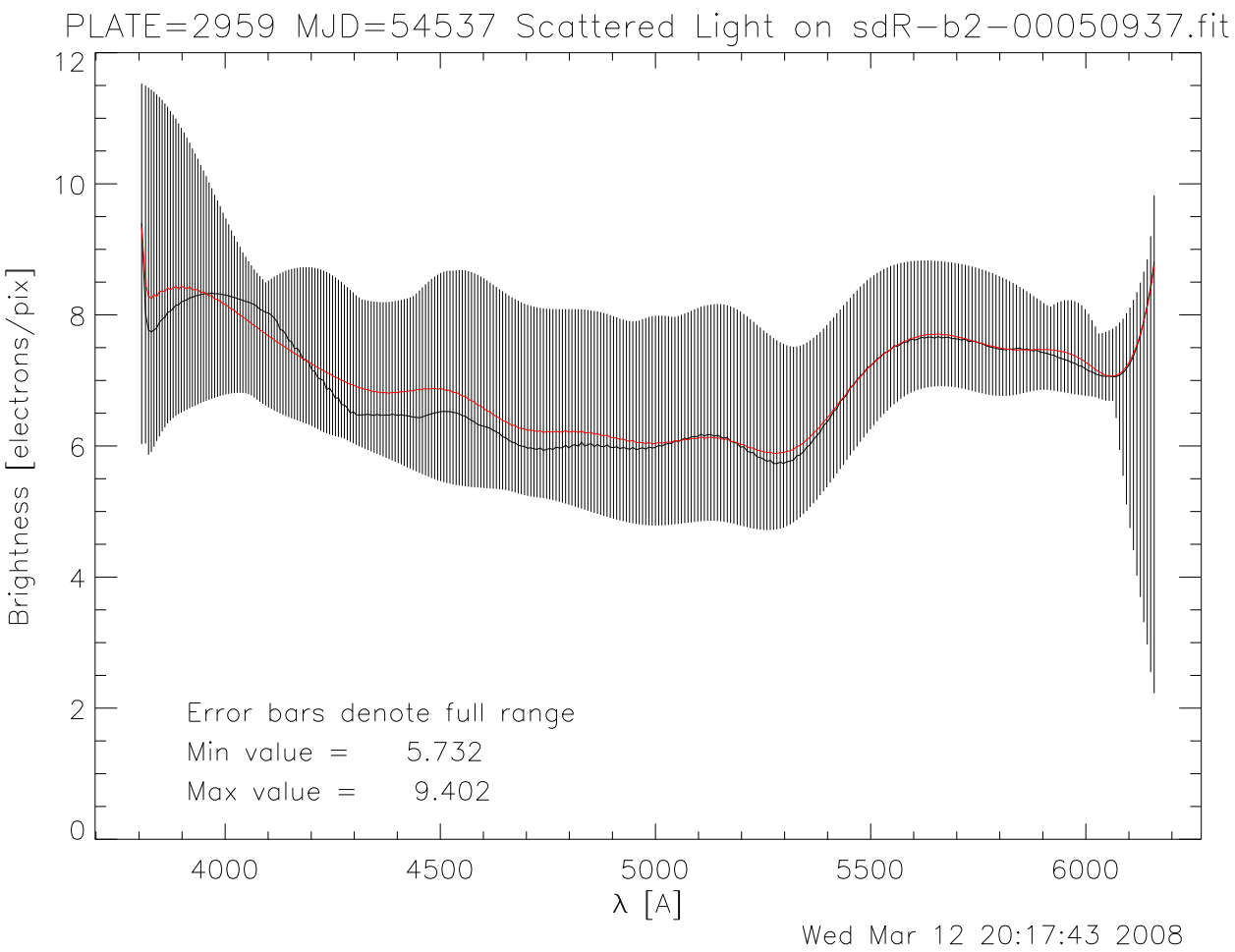

PLATE=2959 MJD=54537 Arcline Fit for sdR-b2-00050941.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 20:12:13 2008


PLATE=2959 MJD=54537 Fiber-Flats for sdR-b2-00050940.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.297
Max value = 1.200
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 20:12:23 2008


PLATE=2959 MJD=54537 Scattered Light before halo removal on sdR−b2−00050937.f
Y [pix]
X [pix]
0
500
1000
1500
2000
12.4
10.5
8.7
6.9


PLATE=2959 MJD=54537 Scattered Light before halo removal on sdR-b2-00050937.f
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 7.978
Max value = 13.229
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 20:13:22 2008


PLATE=2959 MJD=54537 Scattered Light on sdR-b2-00050937.fit
9.1
7.6
6.2
7.6
6.2
7.6
6.2
7.6
7.6
9.1
2000
1500
1000
500
0
0
500
1000
1500
2000
Y [pix]
X [pix]


PLATE=2959 MJD=54537 Scattered Light on sdR-b2-00050937.fit
Brightness [electrons/pix]
12
10
8
6
4
2
0
Error bars denote full range
Min value = 5.732
Max value = 9.402
4000
4500
5000
5500
6000
λ [A]
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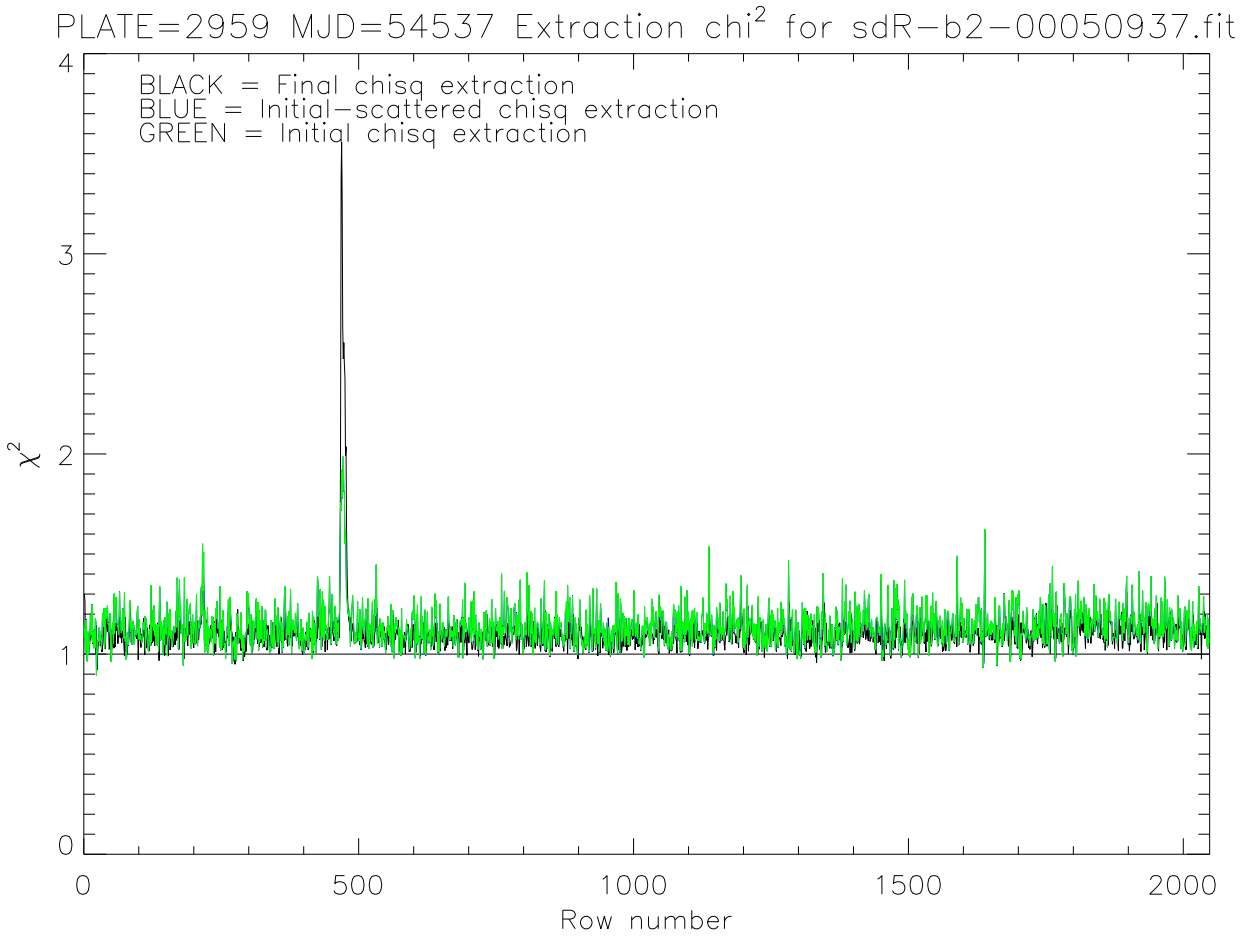
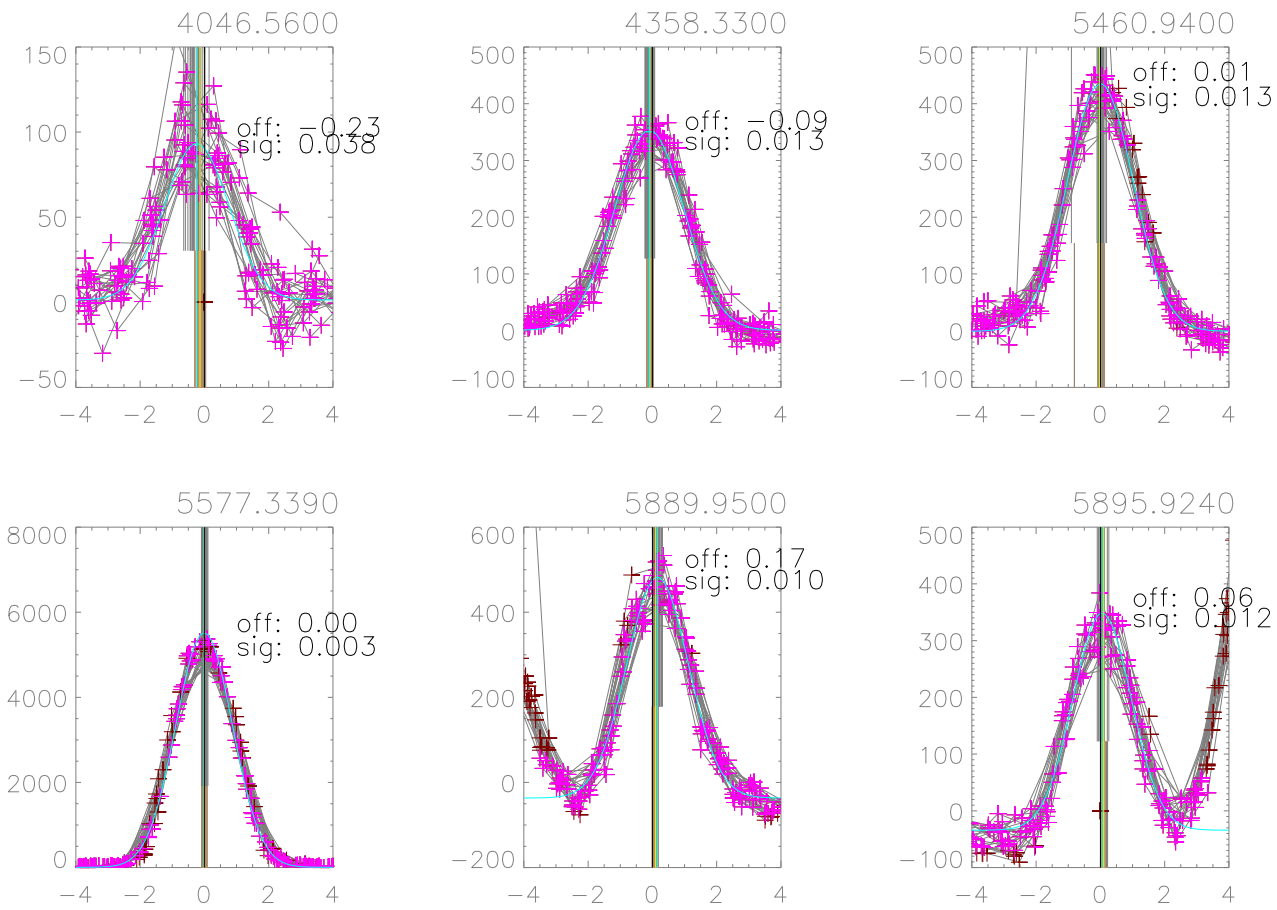
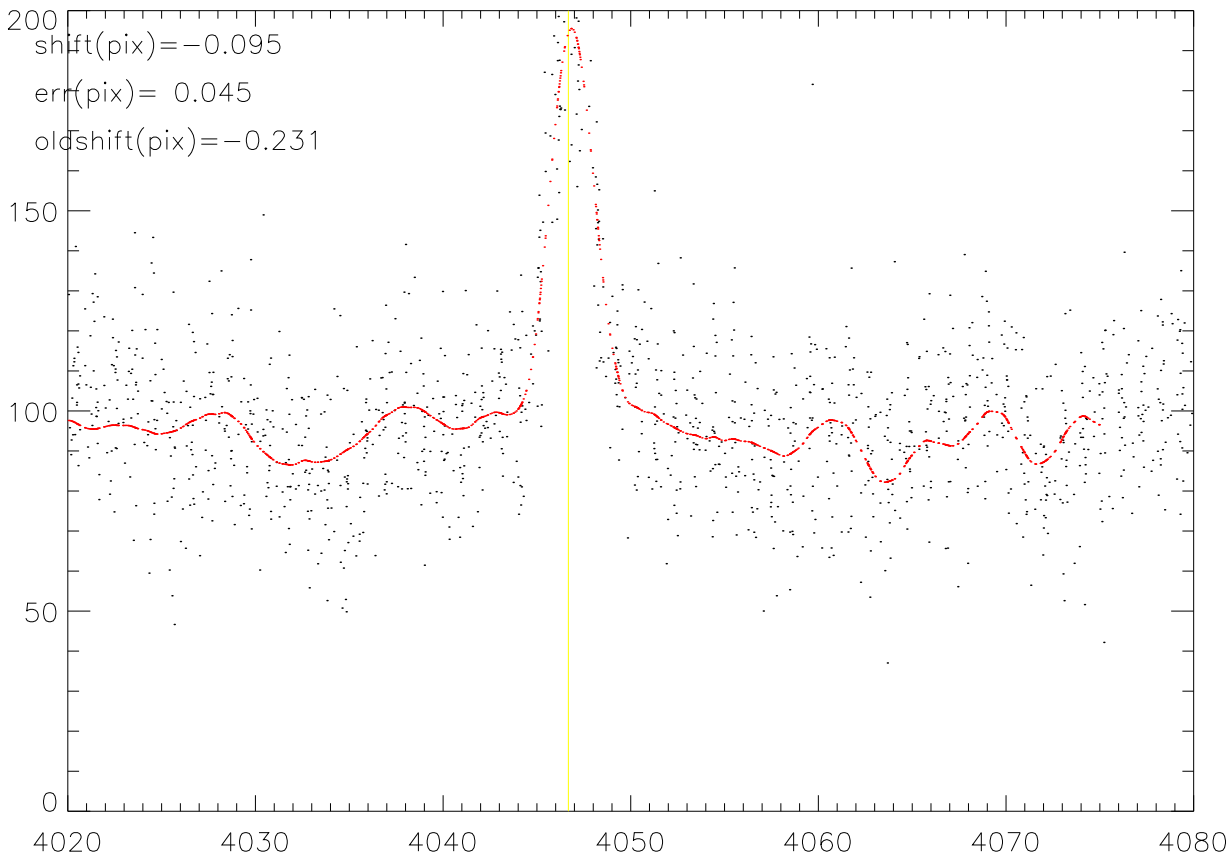
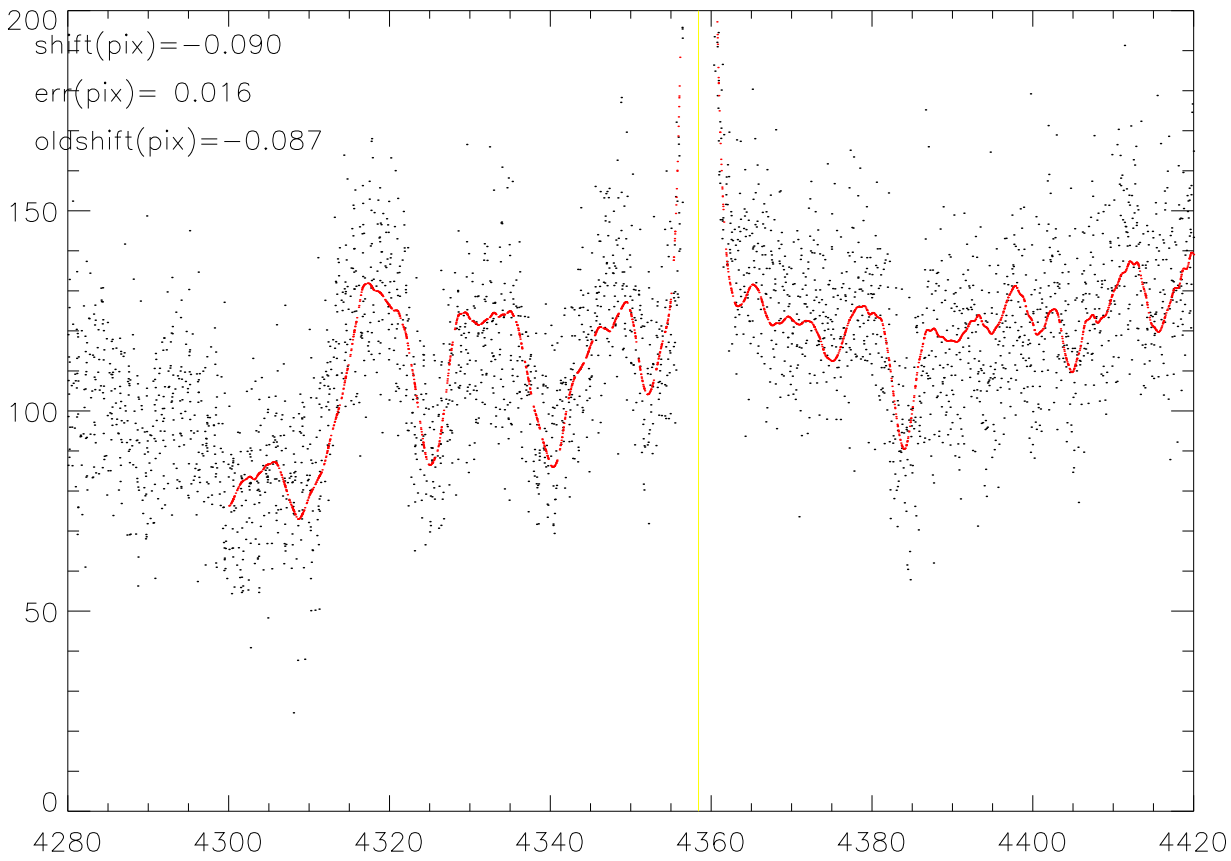
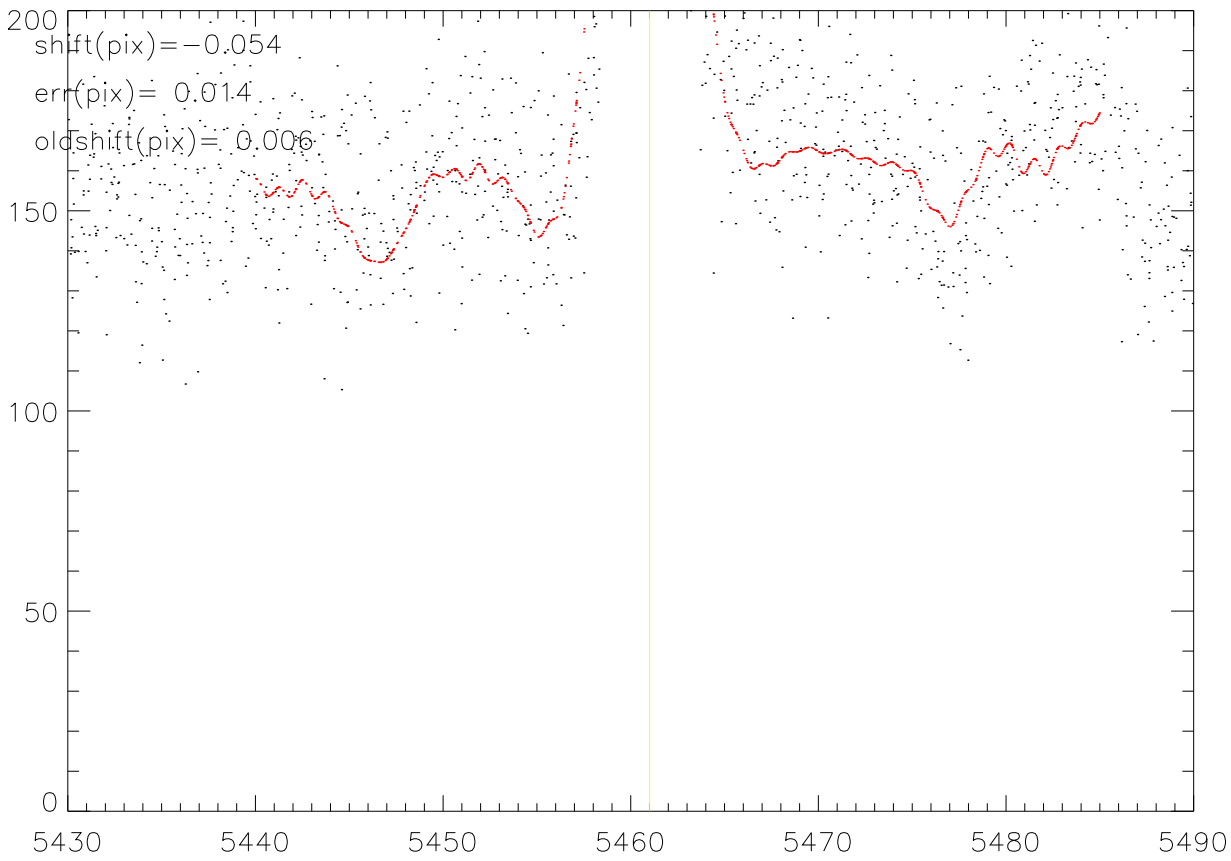
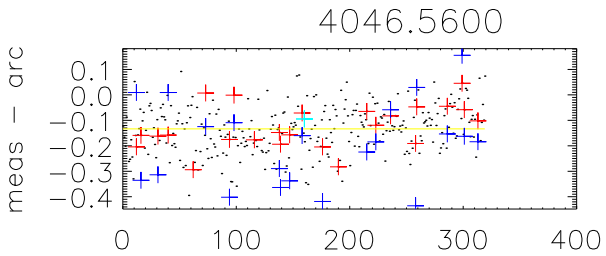

PLATE=2959 MJD=54537 Extraction chi^2 for sdR-b2-00050937.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

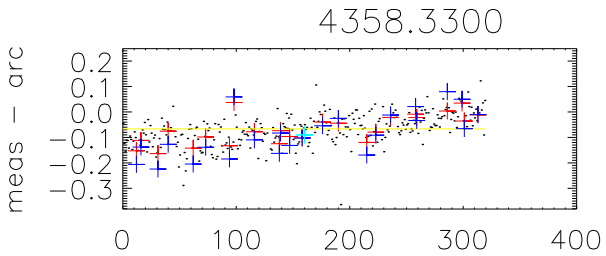

4046.5600
off: −0.23
sig: 0.038
4358.3300
off: −0.09
sig: 0.013
5460.9400
off: 0.01
sig: 0.013
5577.3390
off: 0.00
sig: 0.003
5889.9500
off: 0.17
sig: 0.010
5895.9240
off: 0.06
sig: 0.012

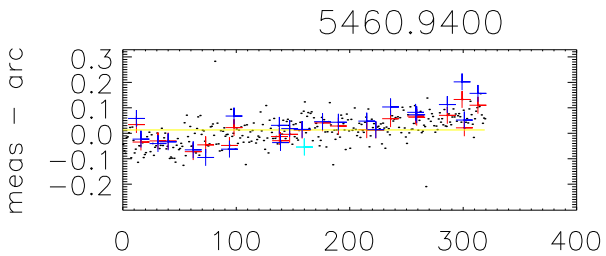

shift(pix)=−0.095
err(pix)= 0.045
oldshift(pix)=−0.231
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

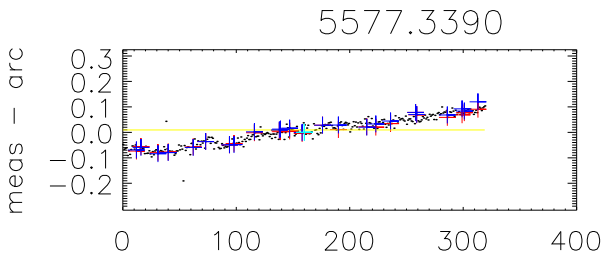

shift(pix)=−0.090
err(pix)= 0.016
oldshift(pix)=−0.087
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

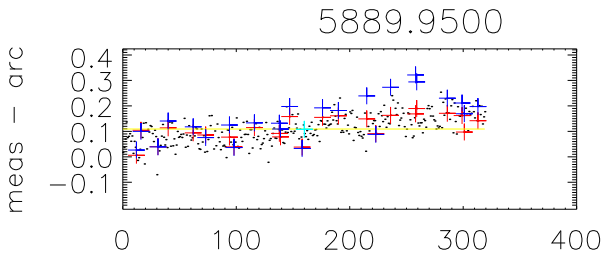

shift(pix)=−0.054
err(pix)= 0.014
oldshift(pix)= 0.006
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

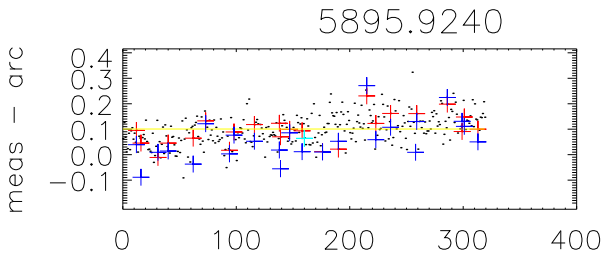

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

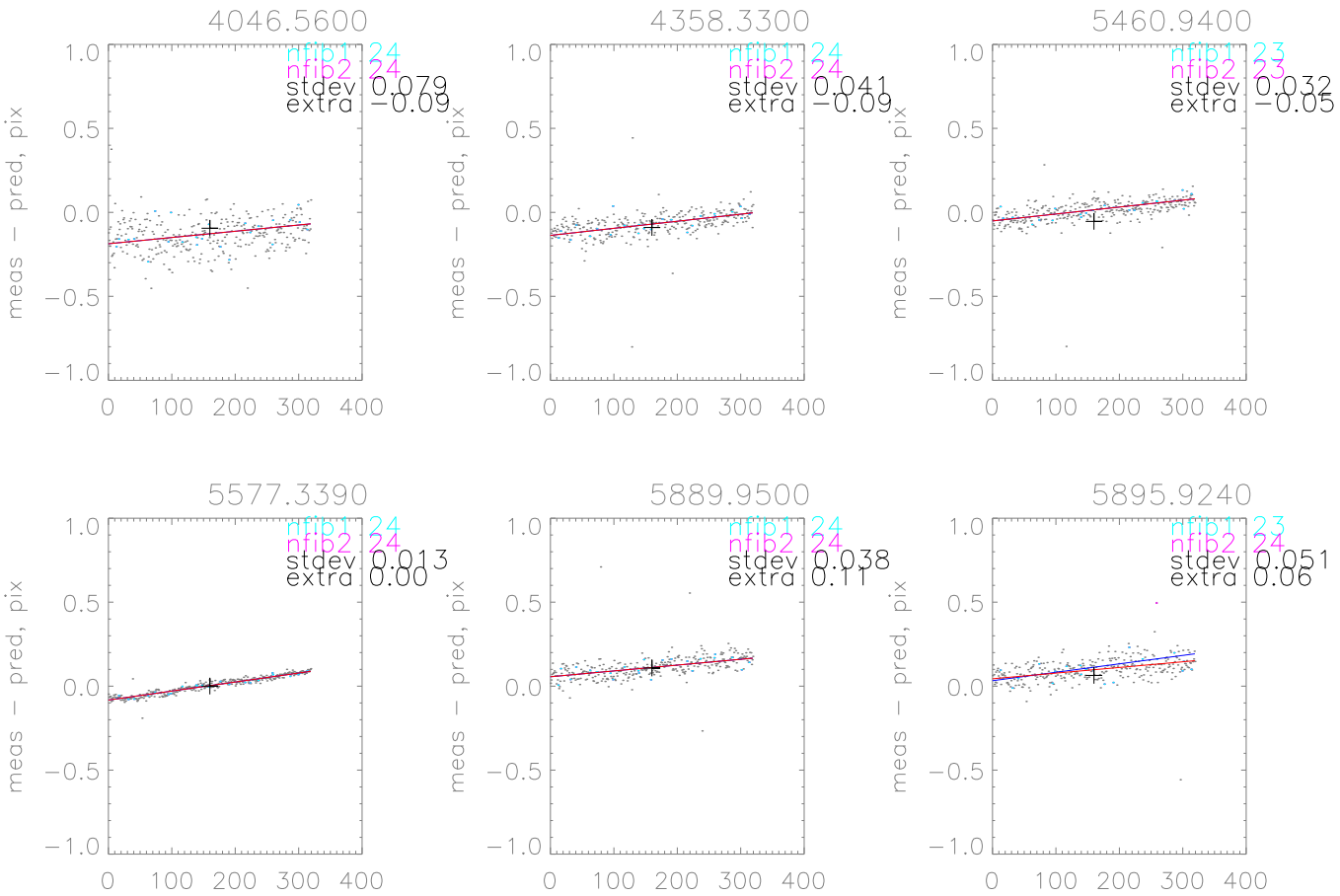

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

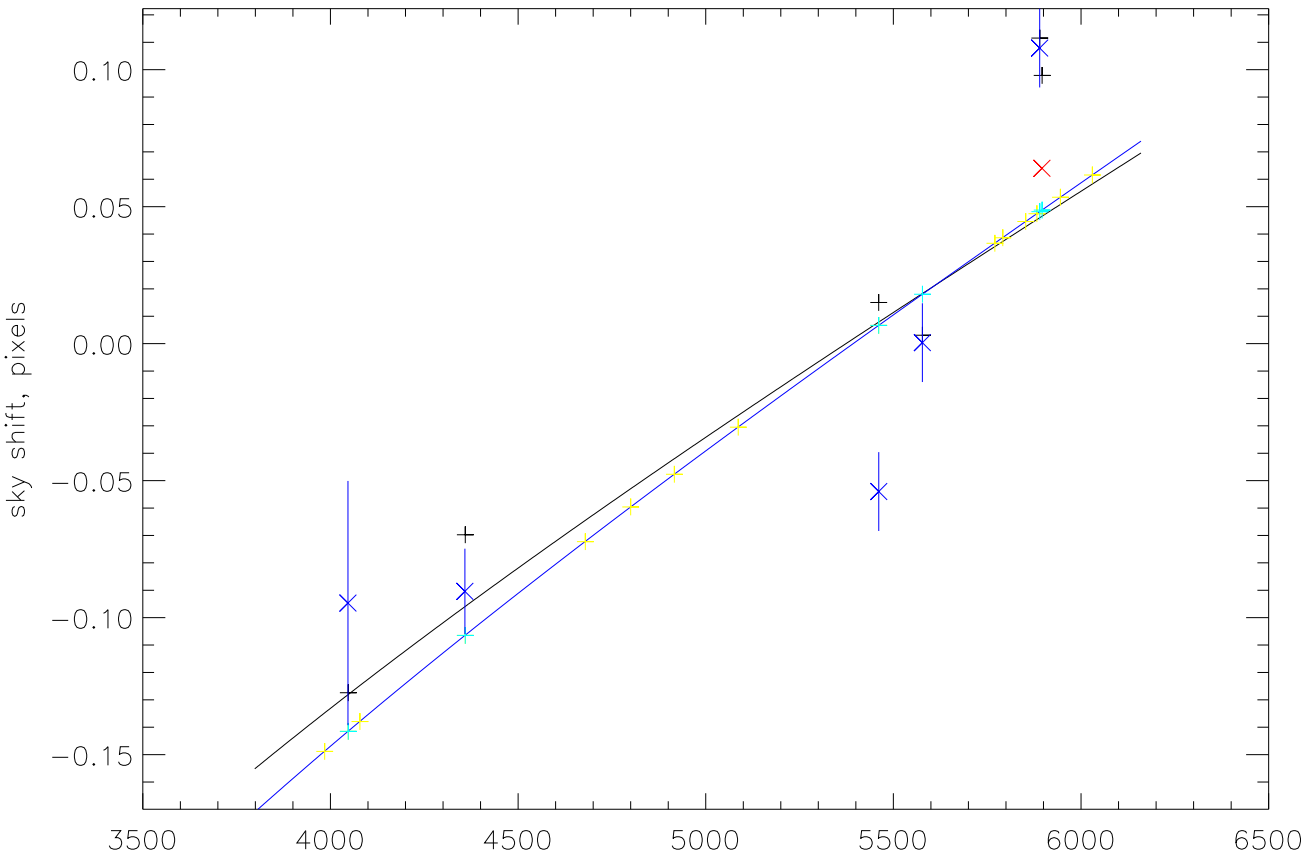

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

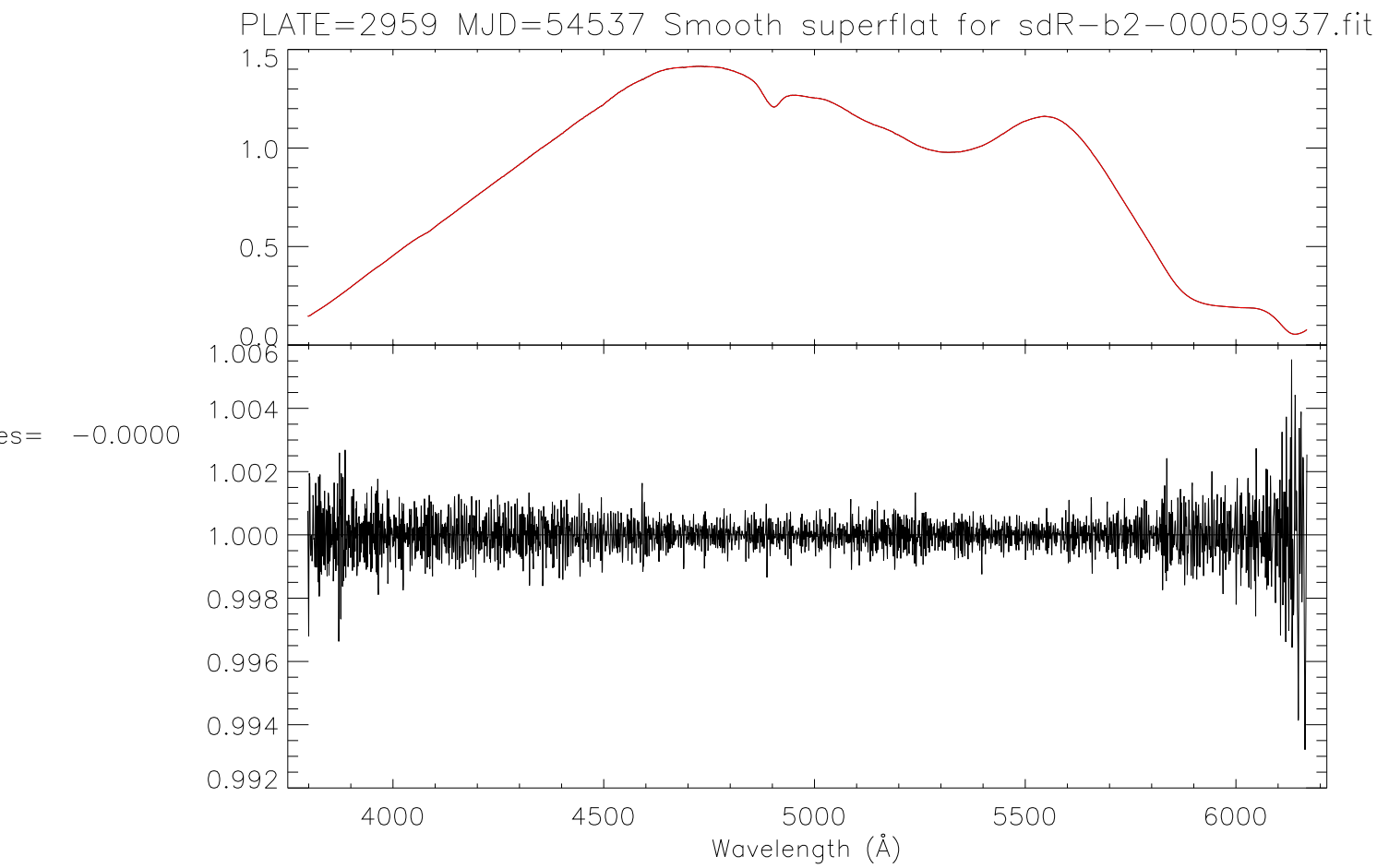

5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

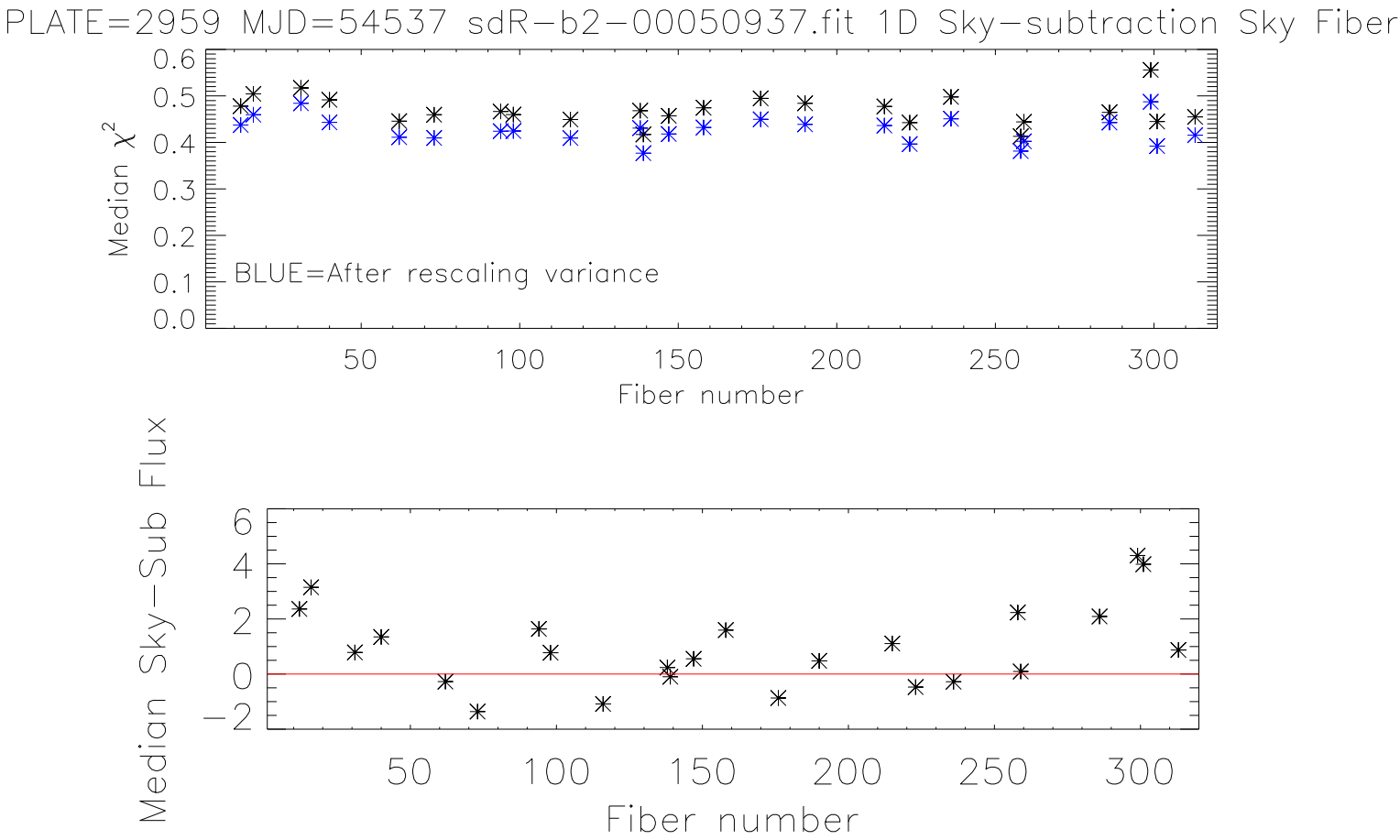

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

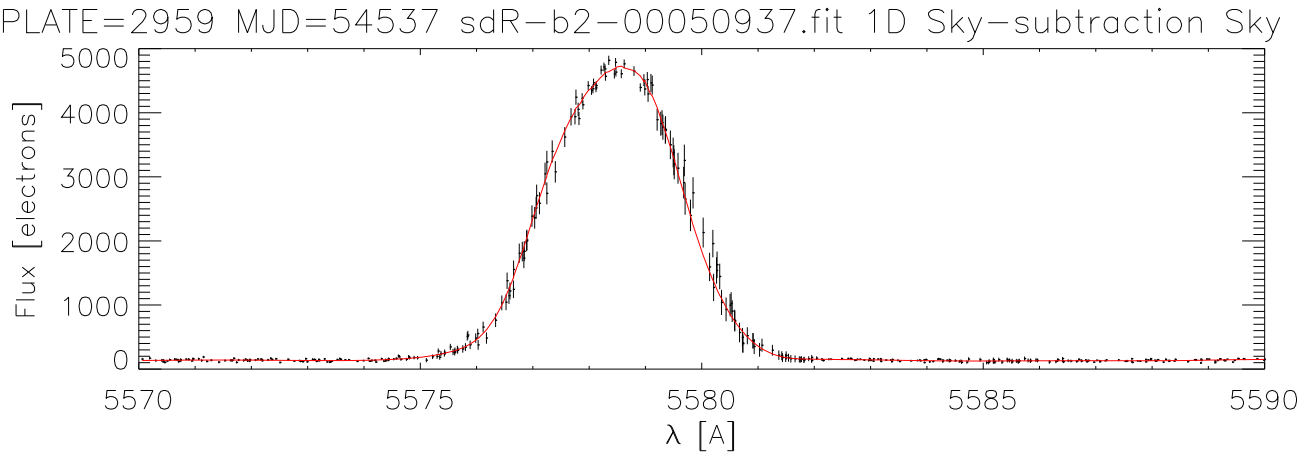

4046.5600
nfib1 24
nfib2 24
stdev 0.079
extra −0.09
4358.3300
nfib1 24
nfib2 24
stdev 0.041
extra −0.09
5460.9400
nfib1 23
nfib2 23
stdev 0.032
extra −0.05
5577.3390
nfib1 24
nfib2 24
stdev 0.013
extra 0.00
5889.9500
nfib1 24
nfib2 24
stdev 0.038
extra 0.11
5895.9240
nfib1 23
nfib2 24
stdev 0.051
extra 0.06
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

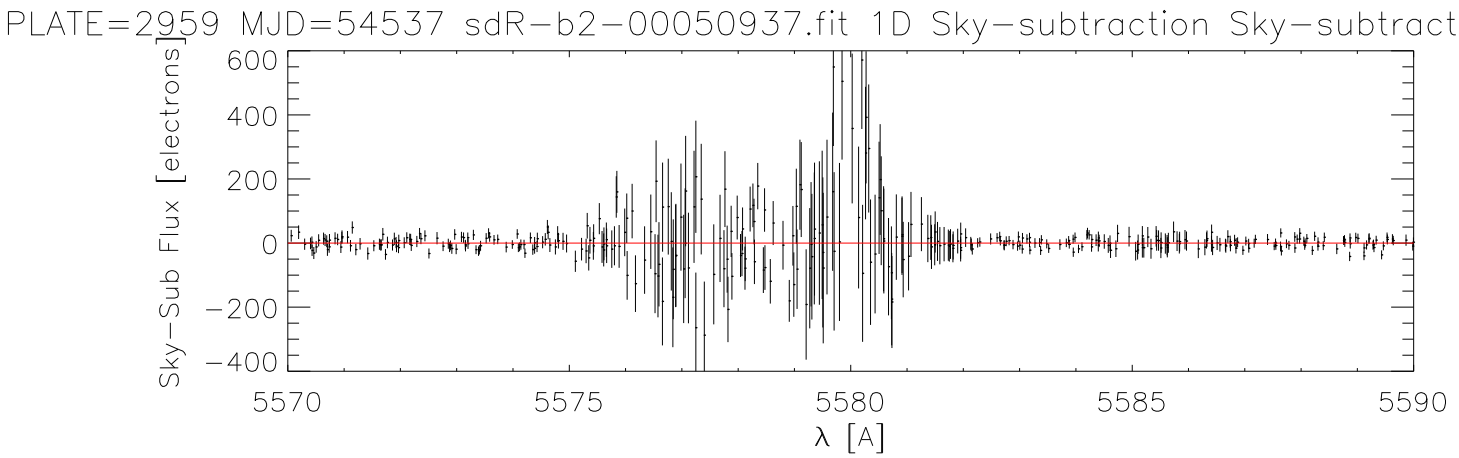

sky shift, pixels
0.10
0.05
0.00
−0.05
−0.10
−0.15
3500
4000
4500
5000
5500
6000
6500

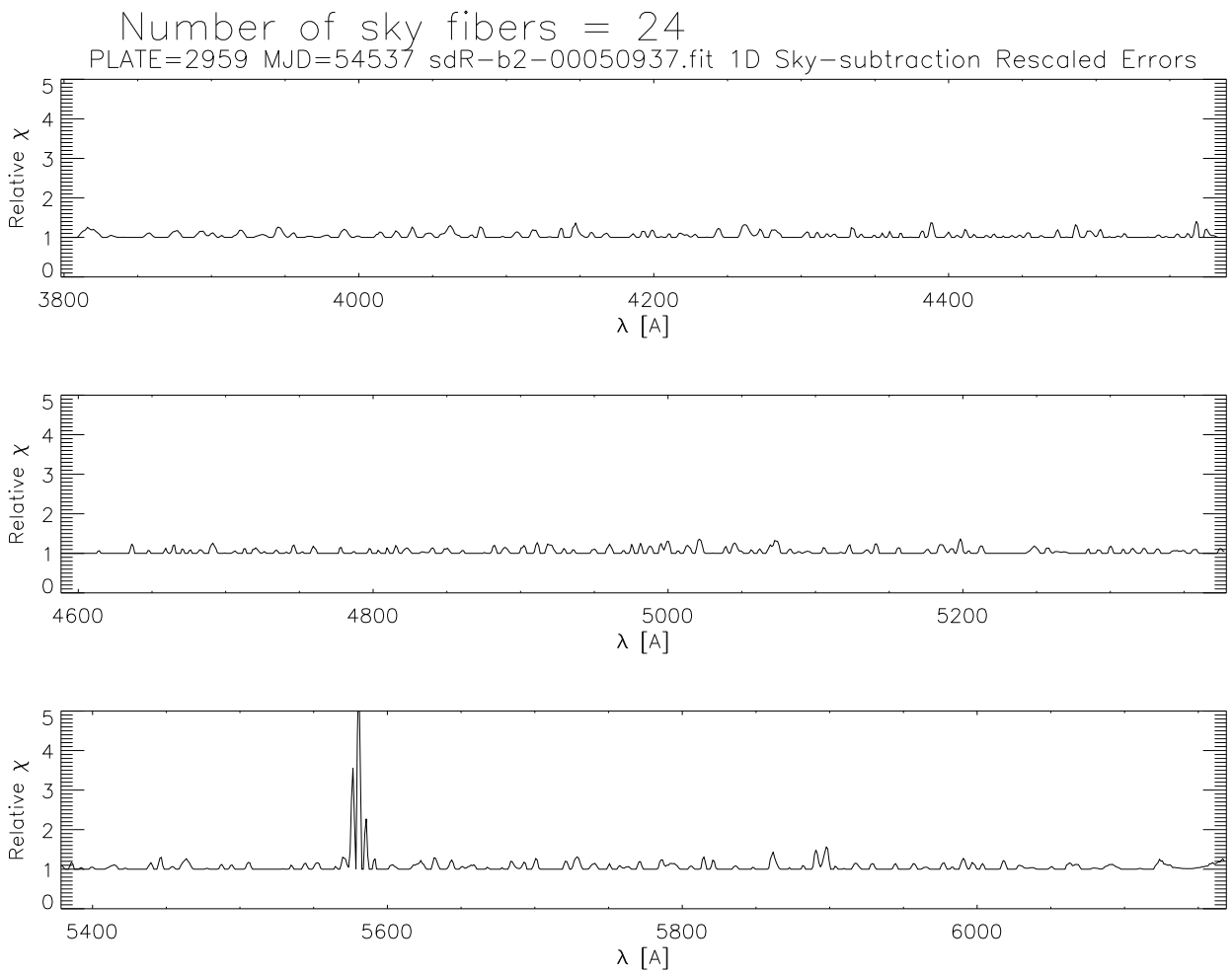

PLATE=2959 MJD=54537 Smooth superflat for sdR-b2-00050937.fit
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
4000
4500
5000
5500
6000
Wavelength (Å)

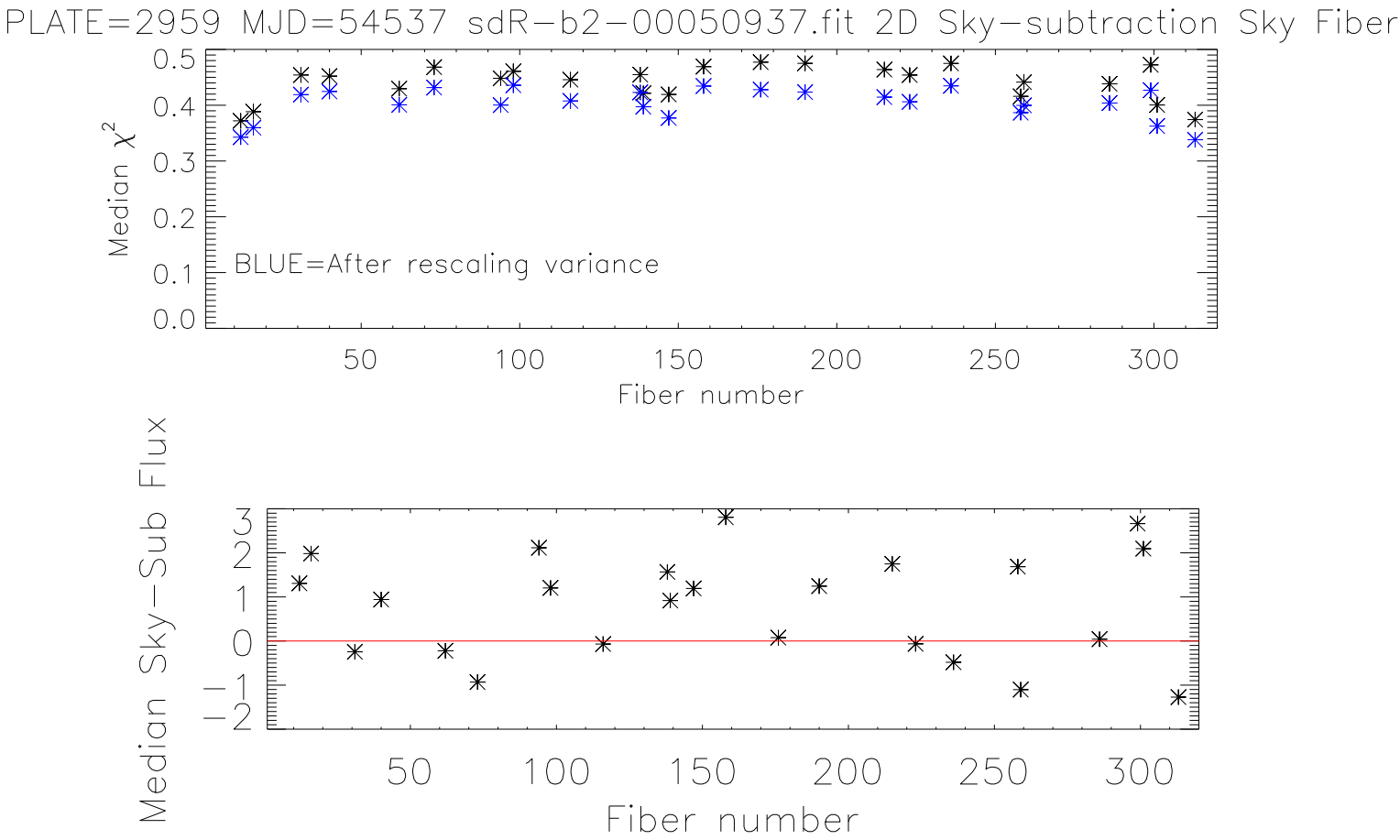
es= −0.0000

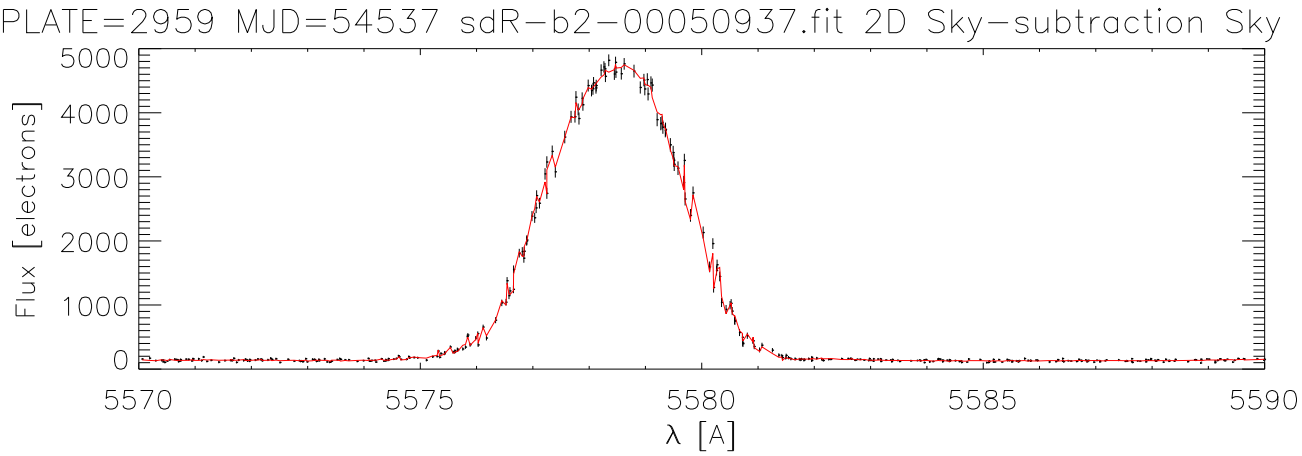

PLATE=2959 MJD=54537 sdR-b2-00050937.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

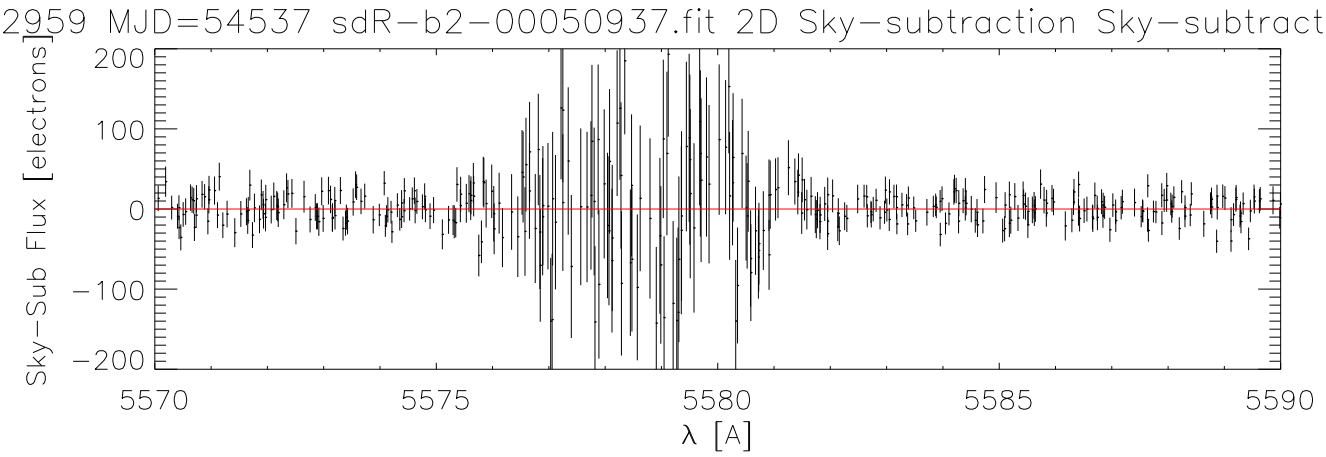

PLATE=2959 MJD=54537 sdR-b2-00050937.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

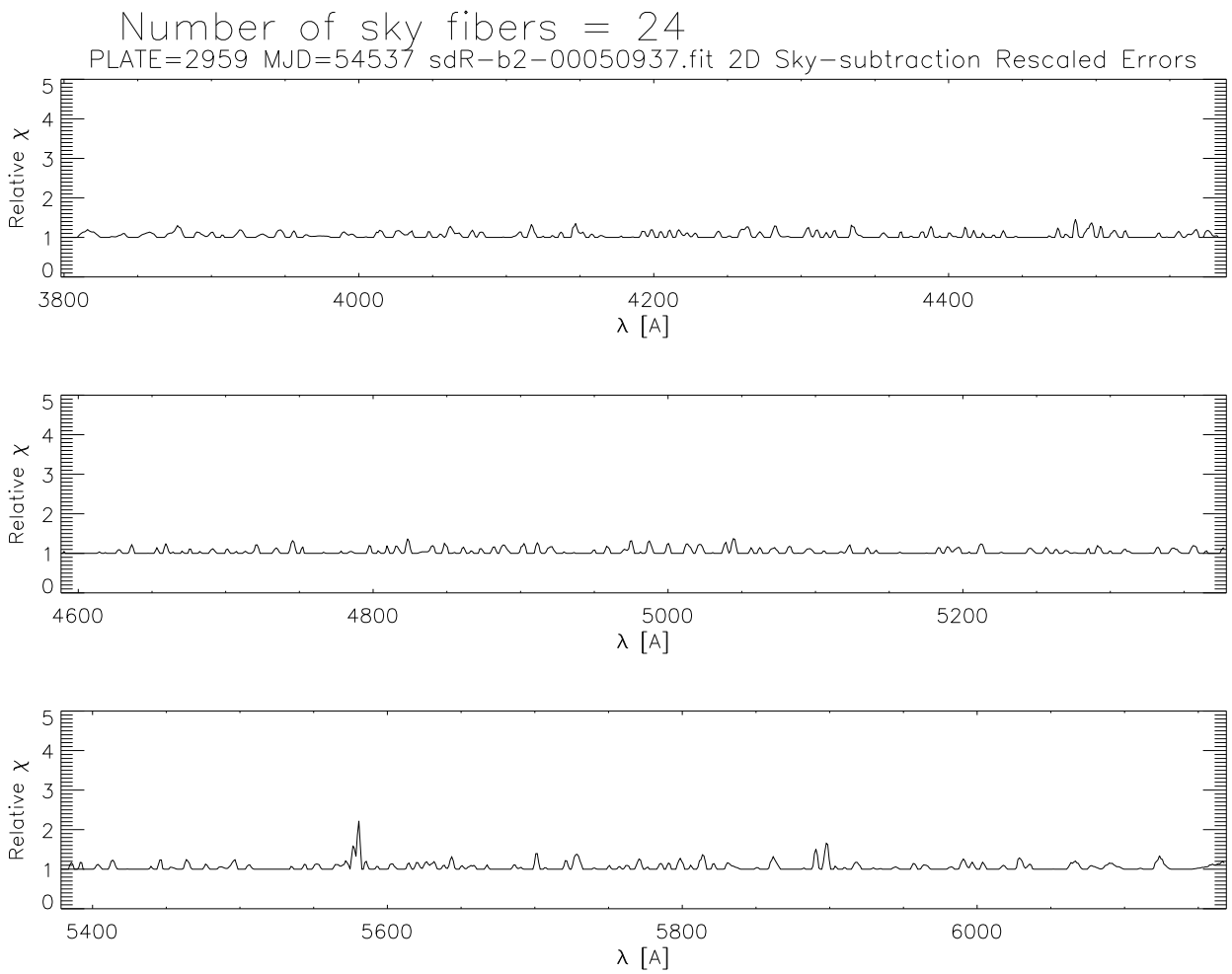

PLATE=2959 MJD=54537 sdR-b2-00050937.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
−200
−400
5570
5575
5580
5585
5590
λ [A]

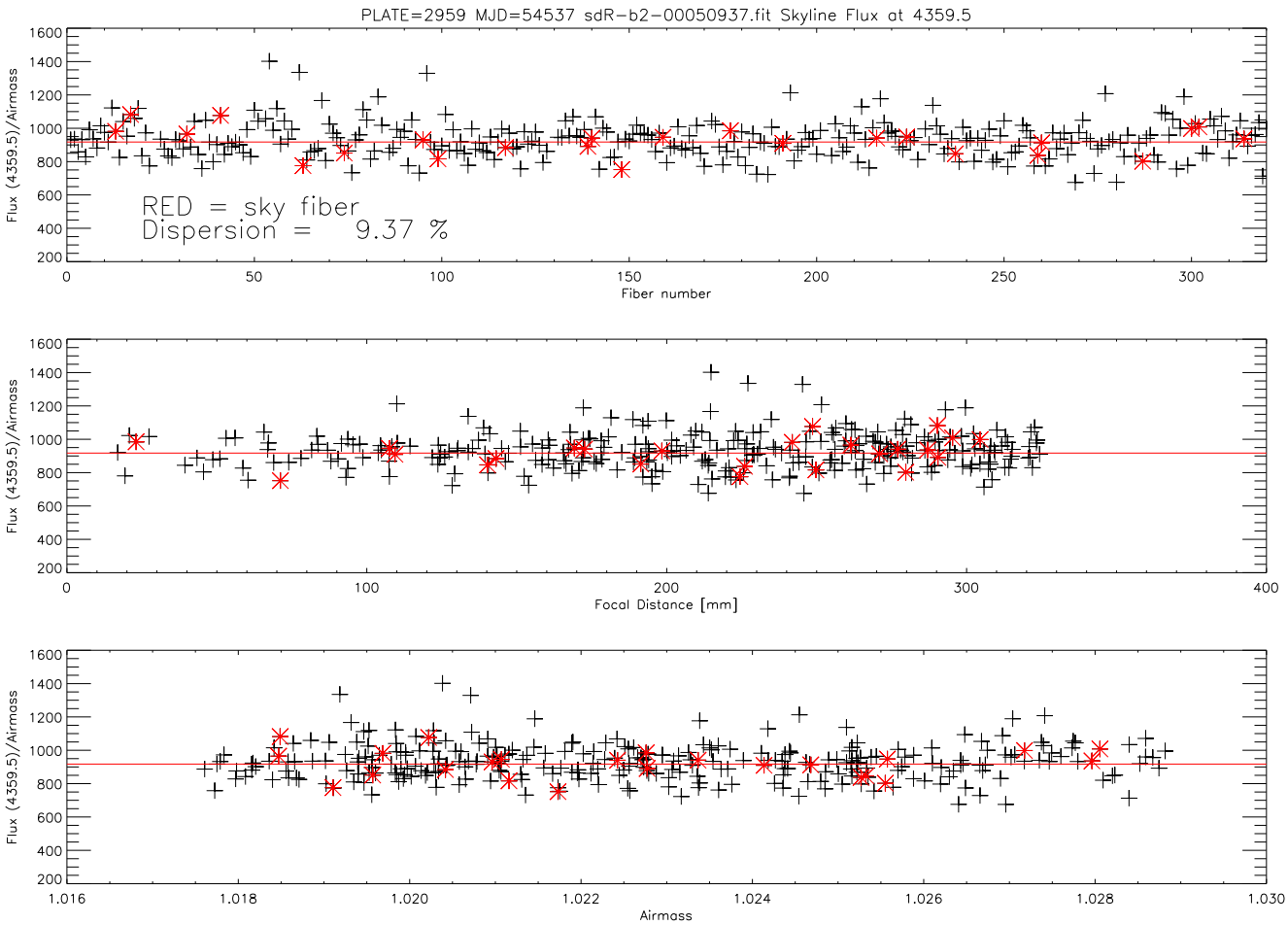

Number of sky fibers = 24
PLATE=2959 MJD=54537 sdR-b2-00050937.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

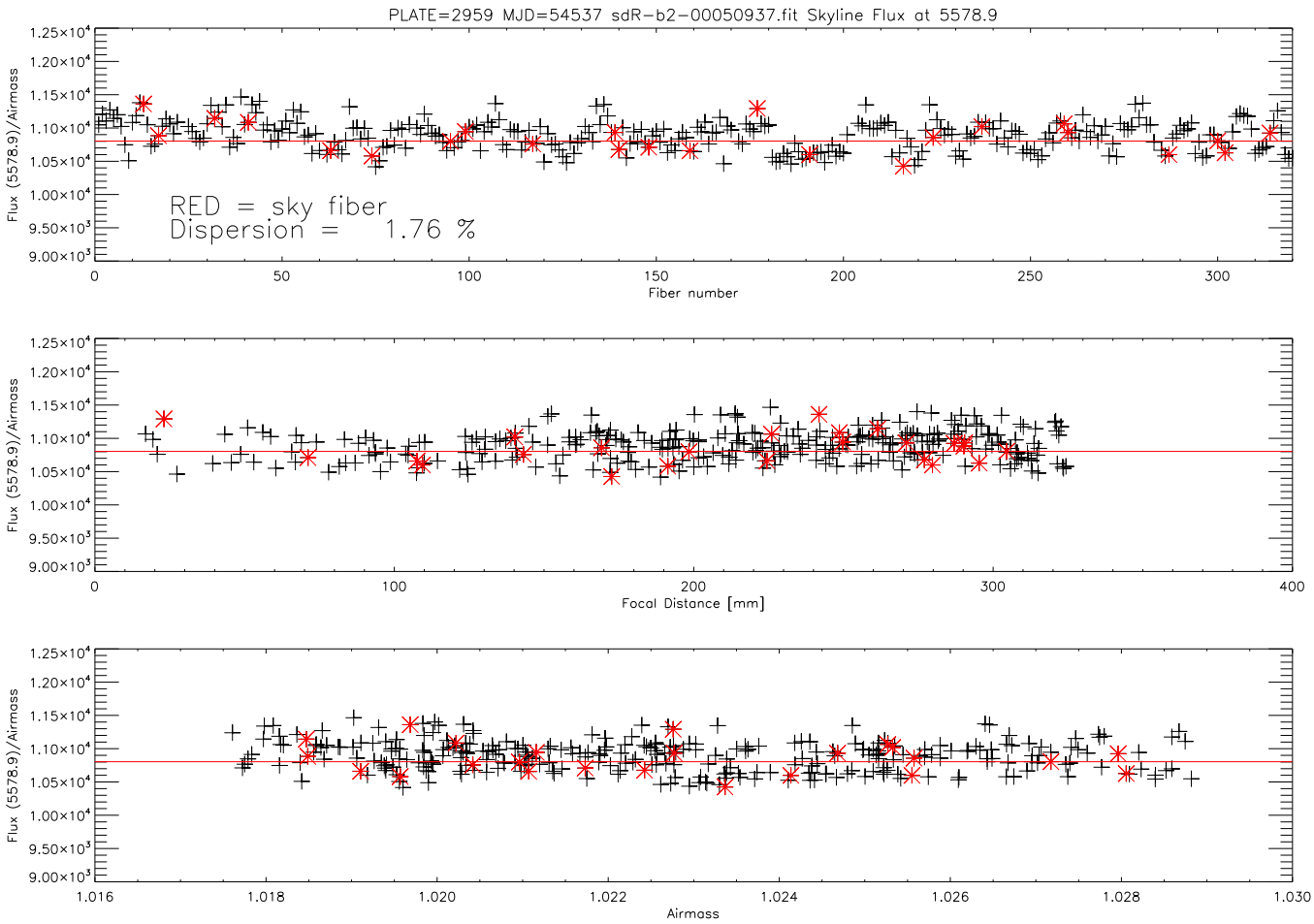

PLATE=2959 MJD=54537 sdR-b2-00050937.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
−2
−1
0
1
2
3
50
100
150
200
250
300
Fiber number

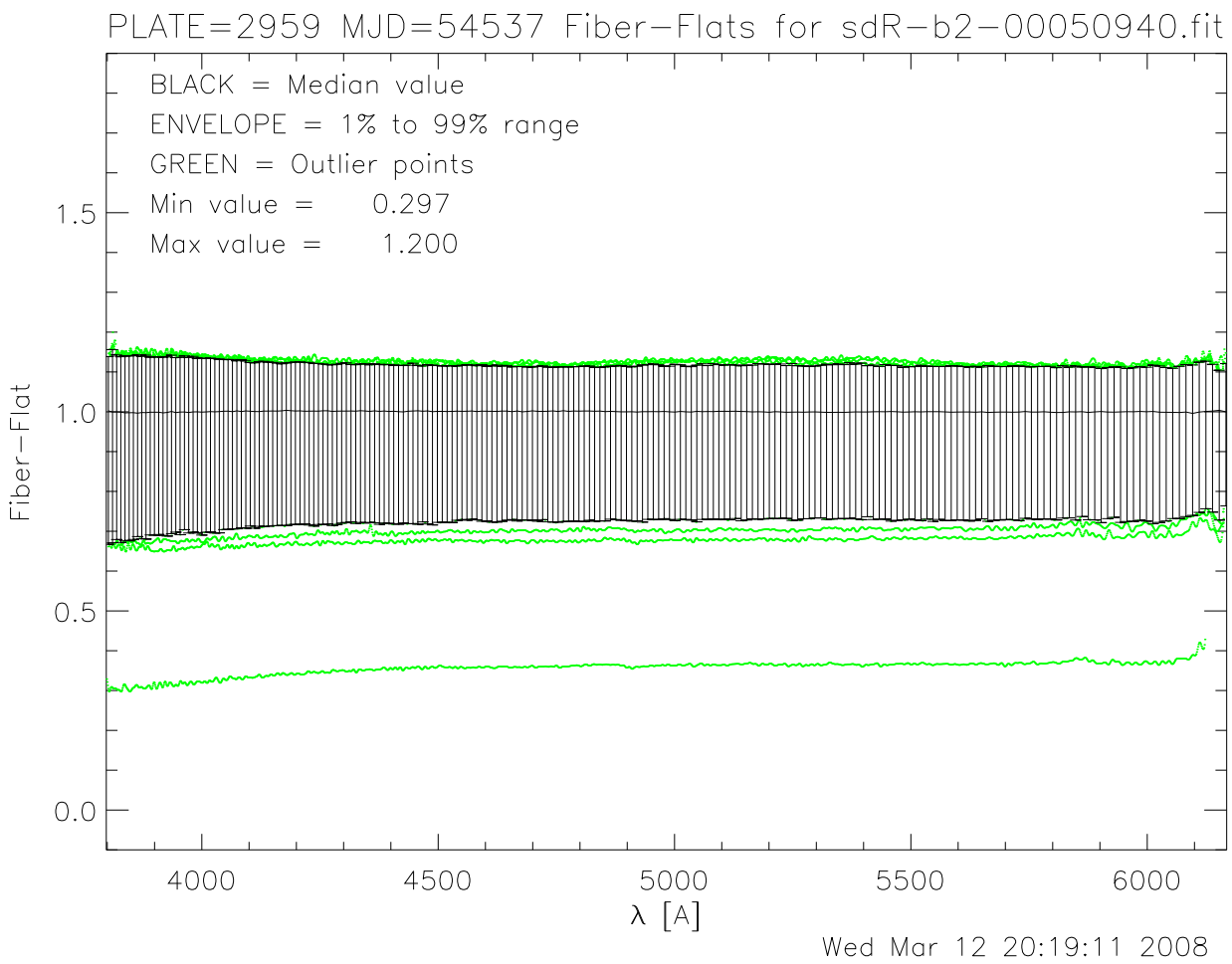

PLATE=2959 MJD=54537 sdR-b2-00050937.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]


PLATE=2959 MJD=54537 sdR-b2-00050937.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]


Number of sky fibers = 24
PLATE=2959 MJD=54537 sdR-b2-00050937.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=2959 MJD=54537 sdR-b2-00050937.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 9.37 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass


PLATE=2959 MJD=54537 sdR-b2-00050937.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.76 %
Fiber number
Focal Distance [mm]
Airmass


PLATE=2959 MJD=54537 Fiber-Flats for sdR-b2-00050940.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.297
Max value = 1.200
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
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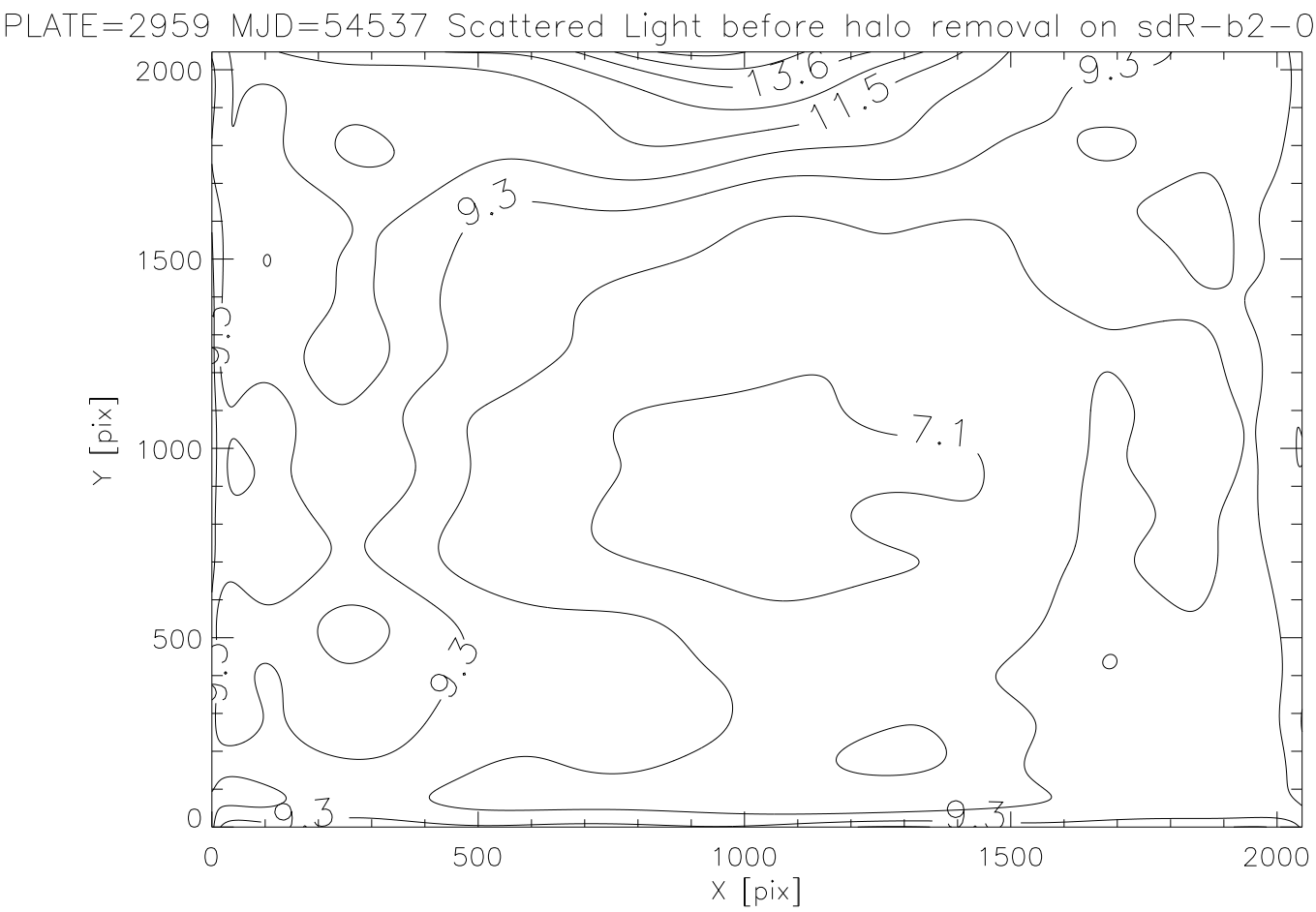
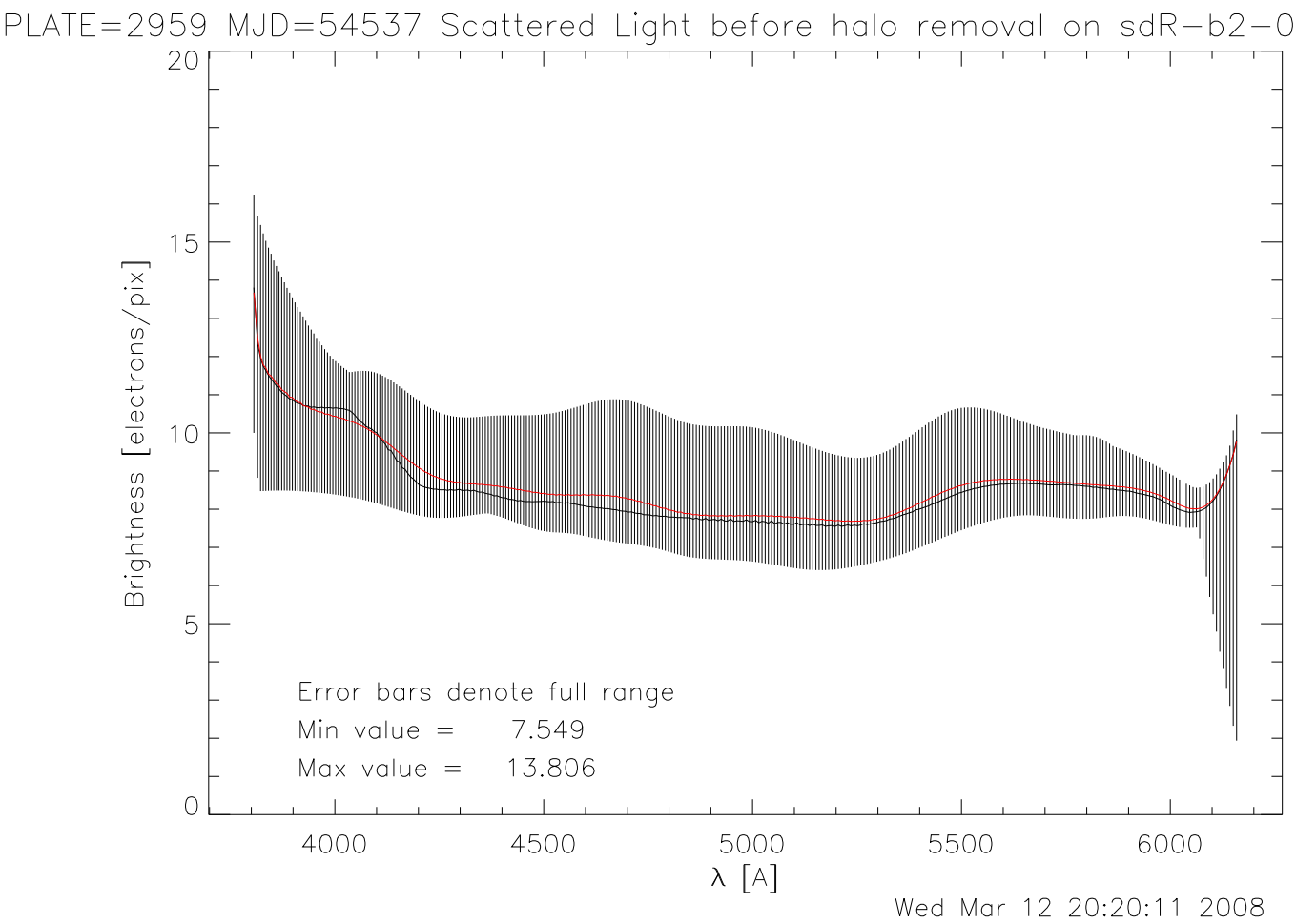
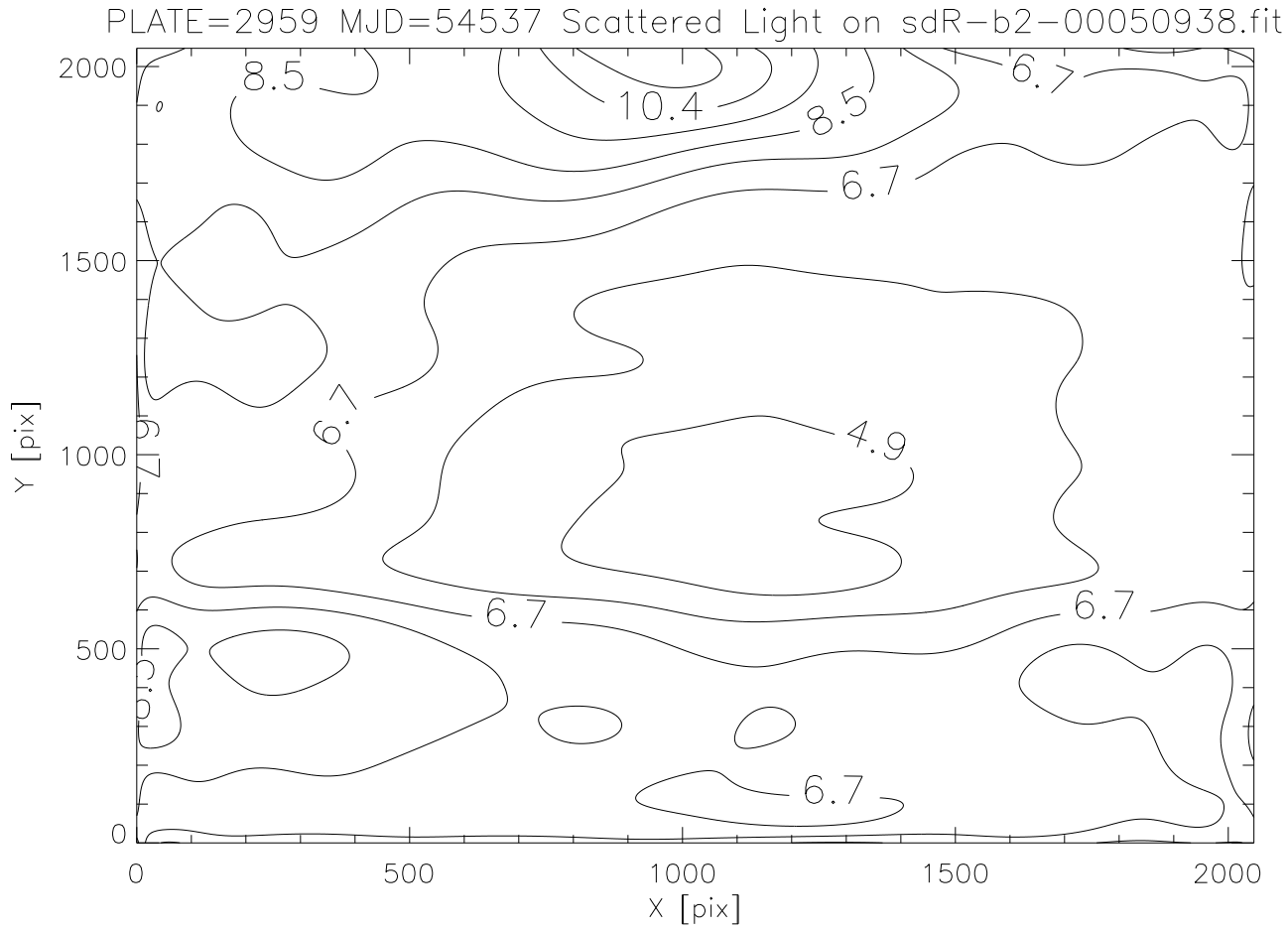
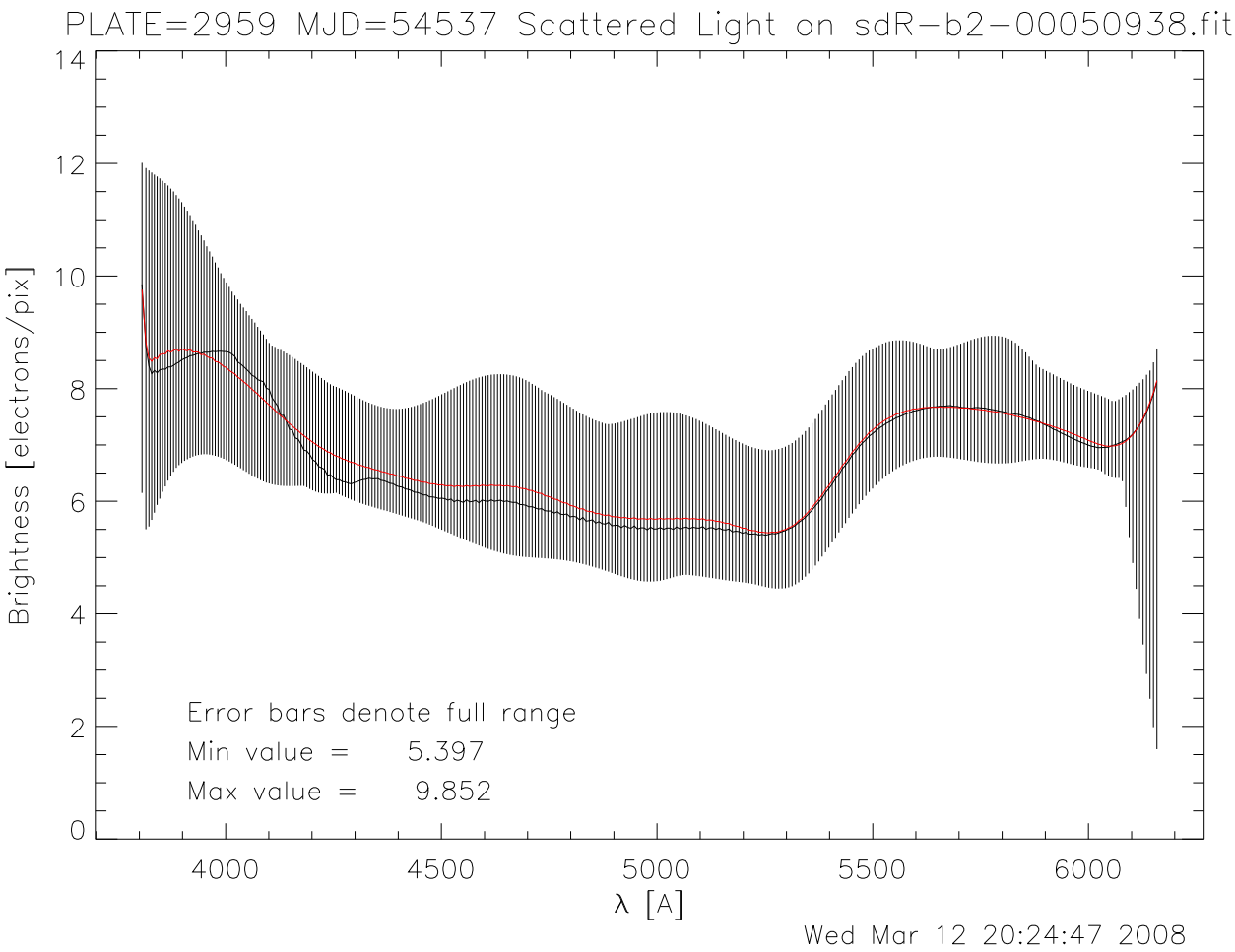
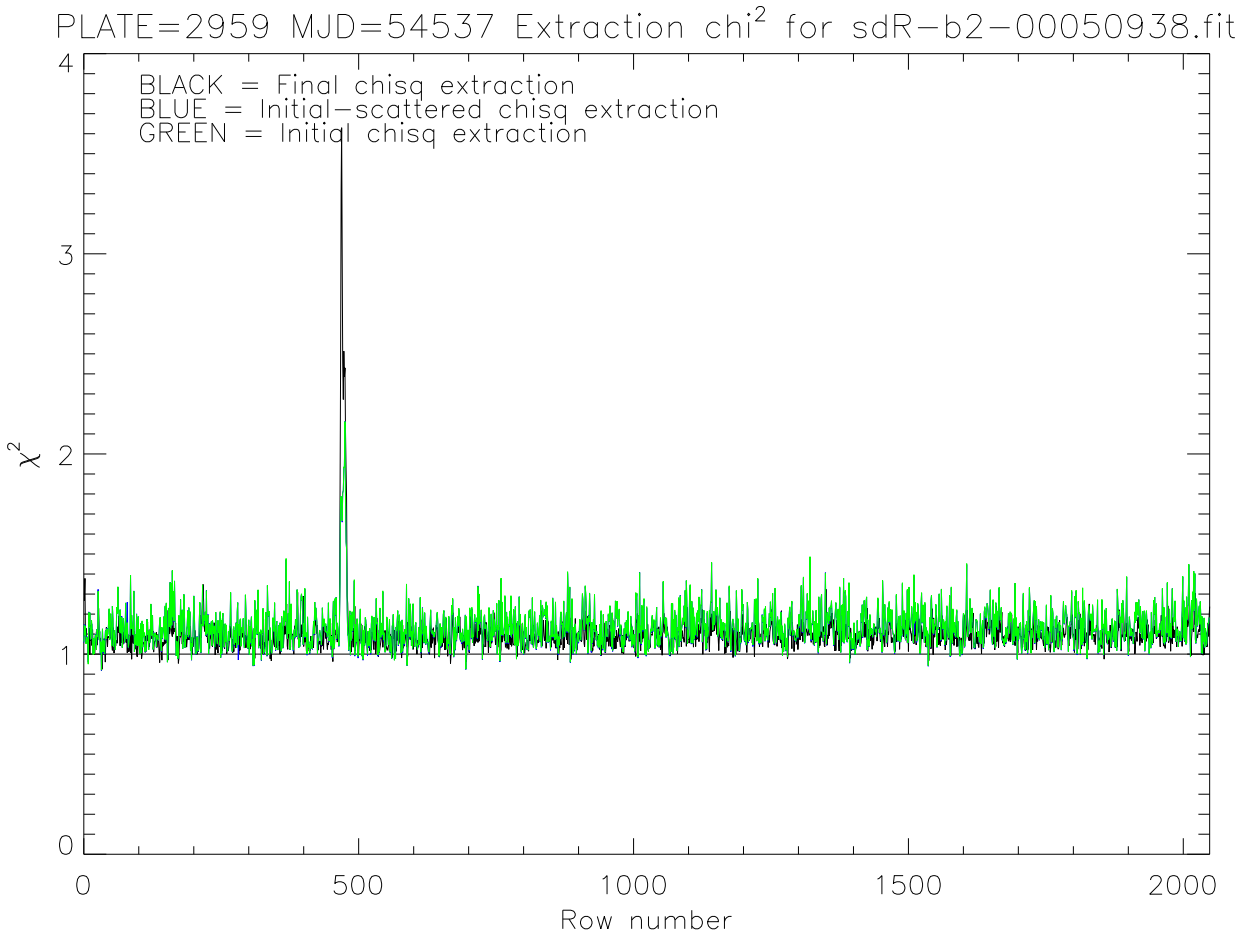
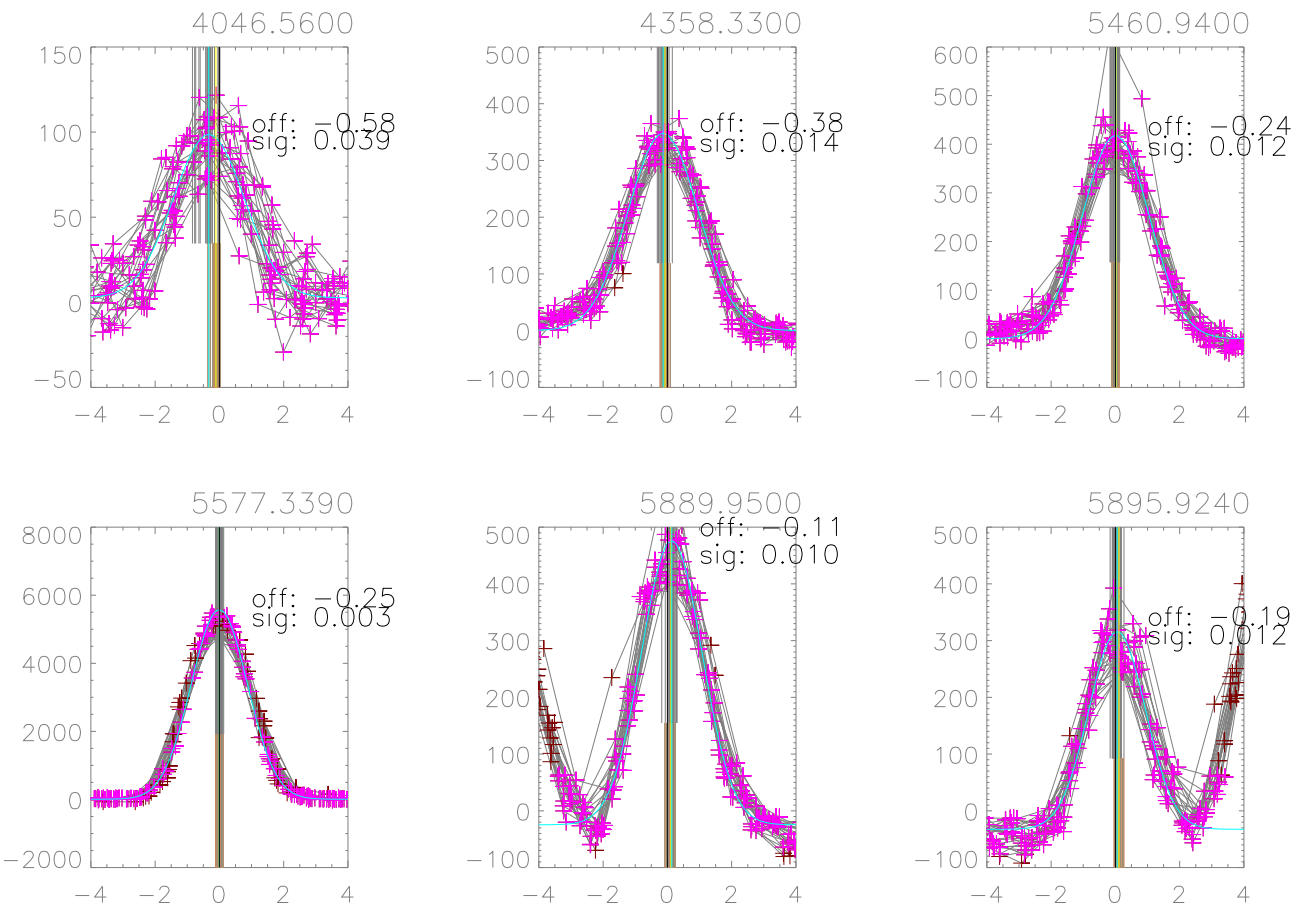

PLATE=2959 MJD=54537 Scattered Light before halo removal on sdR−b2−00050938.f
13.6
11.5
9.3
9.3
7.1
9.3
9.3
9.3
9.3
2000
1500
1000
500
0
0
500
1000
1500
2000
Y [pix]
X [pix]

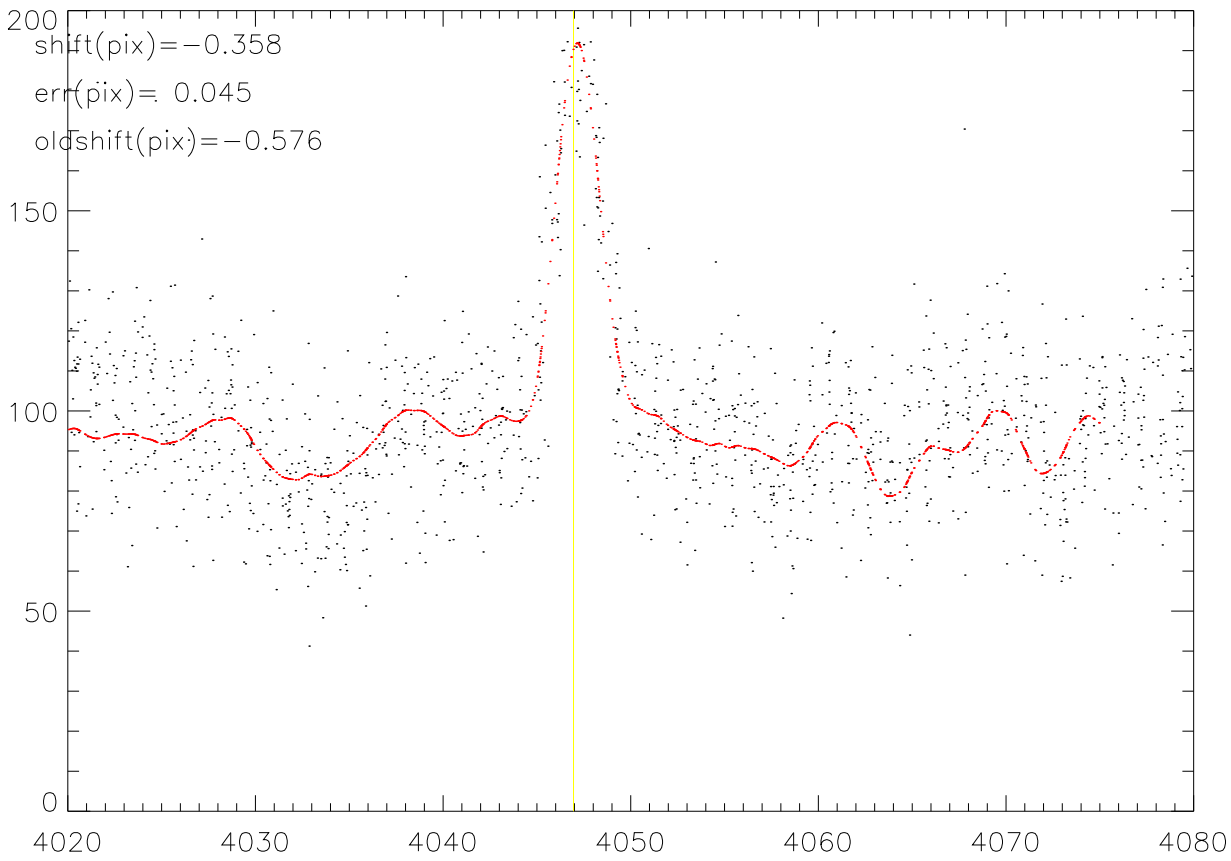

PLATE=2959 MJD=54537 Scattered Light before halo removal on sdR-b2-00050938.f
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 7.549
Max value = 13.806
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 20:20:11 2008

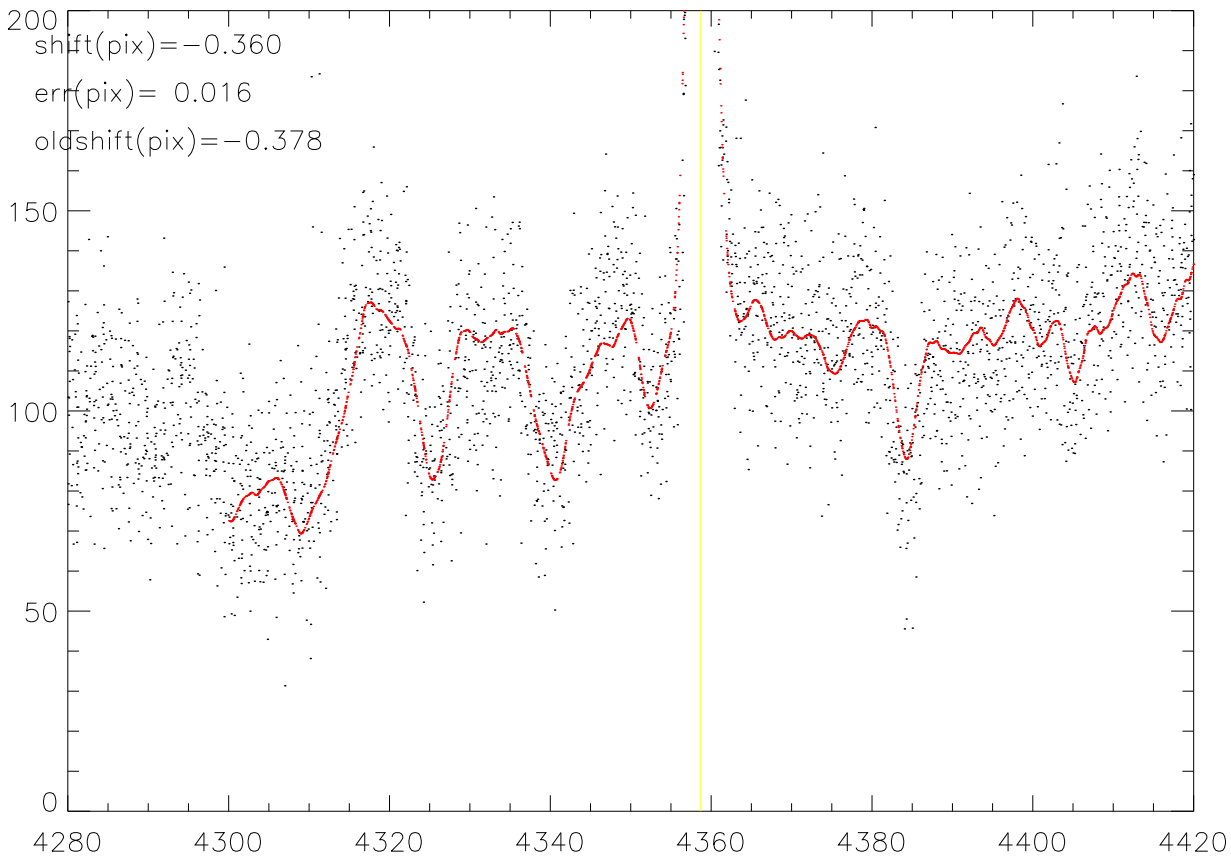

PLATE=2959 MJD=54537 Scattered Light on sdR-b2-00050938.fit
8.5
10.4
8.5
6.7
6.7
6.7
4.9
6.7
6.7
6.7
2000
1500
1000
500
0
0
500
1000
1500
2000
Y [pix]
X [pix]

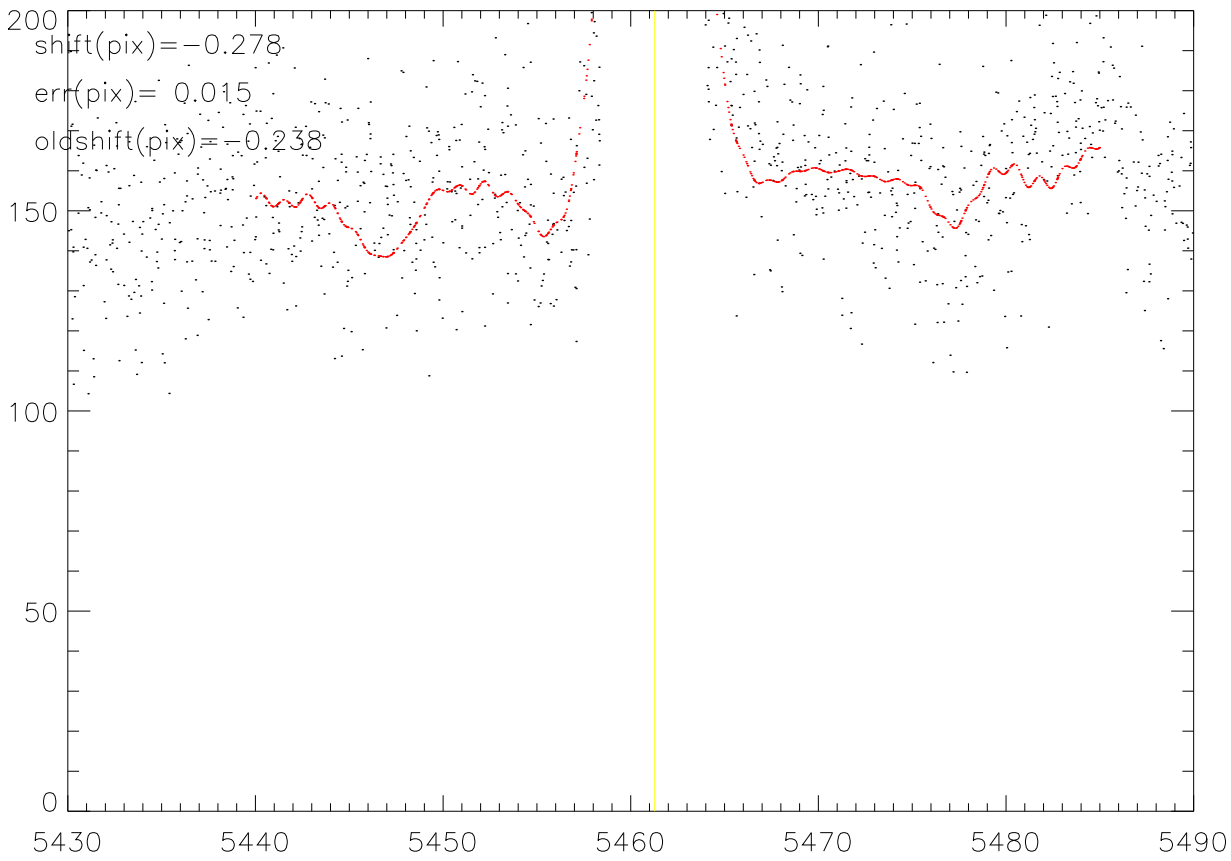

PLATE=2959 MJD=54537 Scattered Light on sdR-b2-00050938.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.397
Max value = 9.852
Wed Mar 12 20:24:47 2008

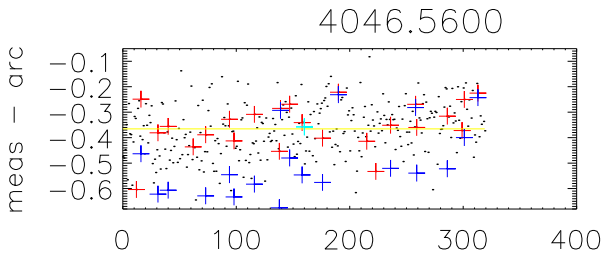

PLATE=2959 MJD=54537 Extraction chi^2 for sdR-b2-00050938.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

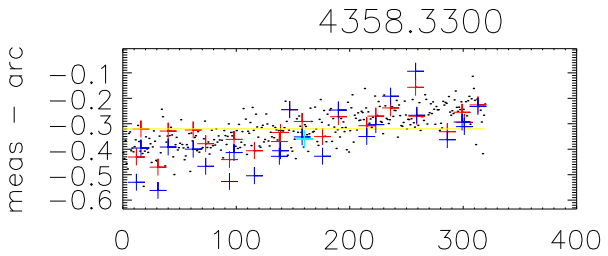

4046.5600
off: −0.58
sig: 0.039
4358.3300
off: −0.38
sig: 0.014
5460.9400
off: −0.24
sig: 0.012
5577.3390
off: −0.25
sig: 0.003
5889.9500
off: −0.11
sig: 0.010
5895.9240
off: −0.19
sig: 0.012

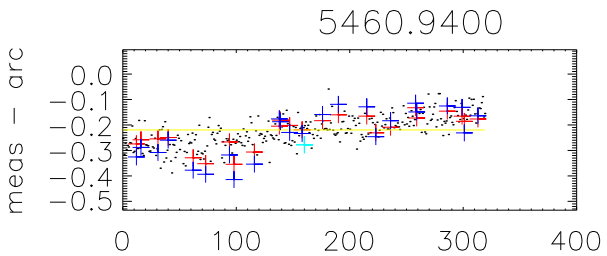

shift(pix)=−0.358
err(pix)= 0.045
oldshift(pix)=−0.576
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

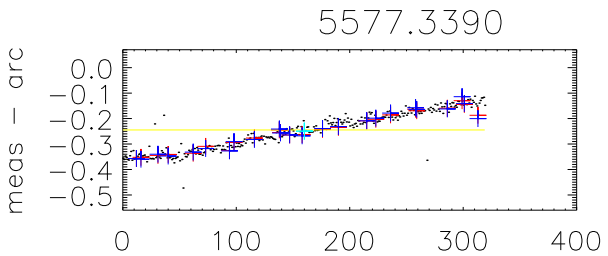

shift(pix)=−0.360
err(pix)= 0.016
oldshift(pix)=−0.378
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

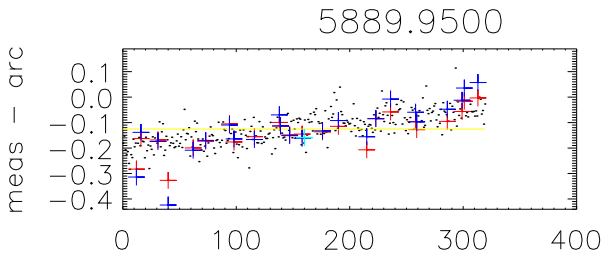

shift(pix)=−0.278
err(pix)= 0.015
oldshift(pix)=−0.238
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

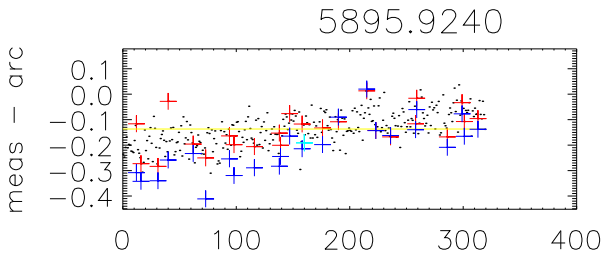

4046.5600
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

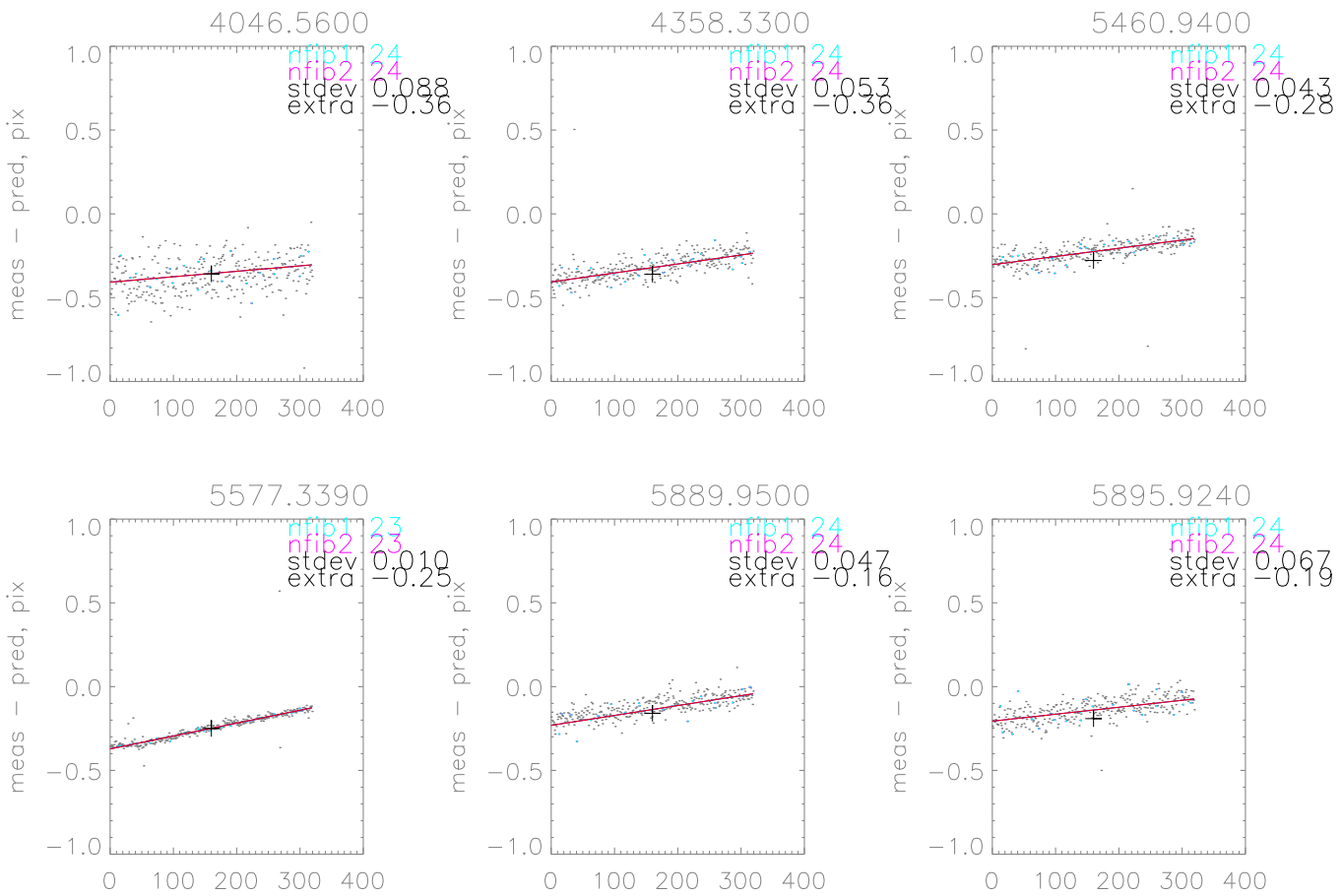

4358.3300
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

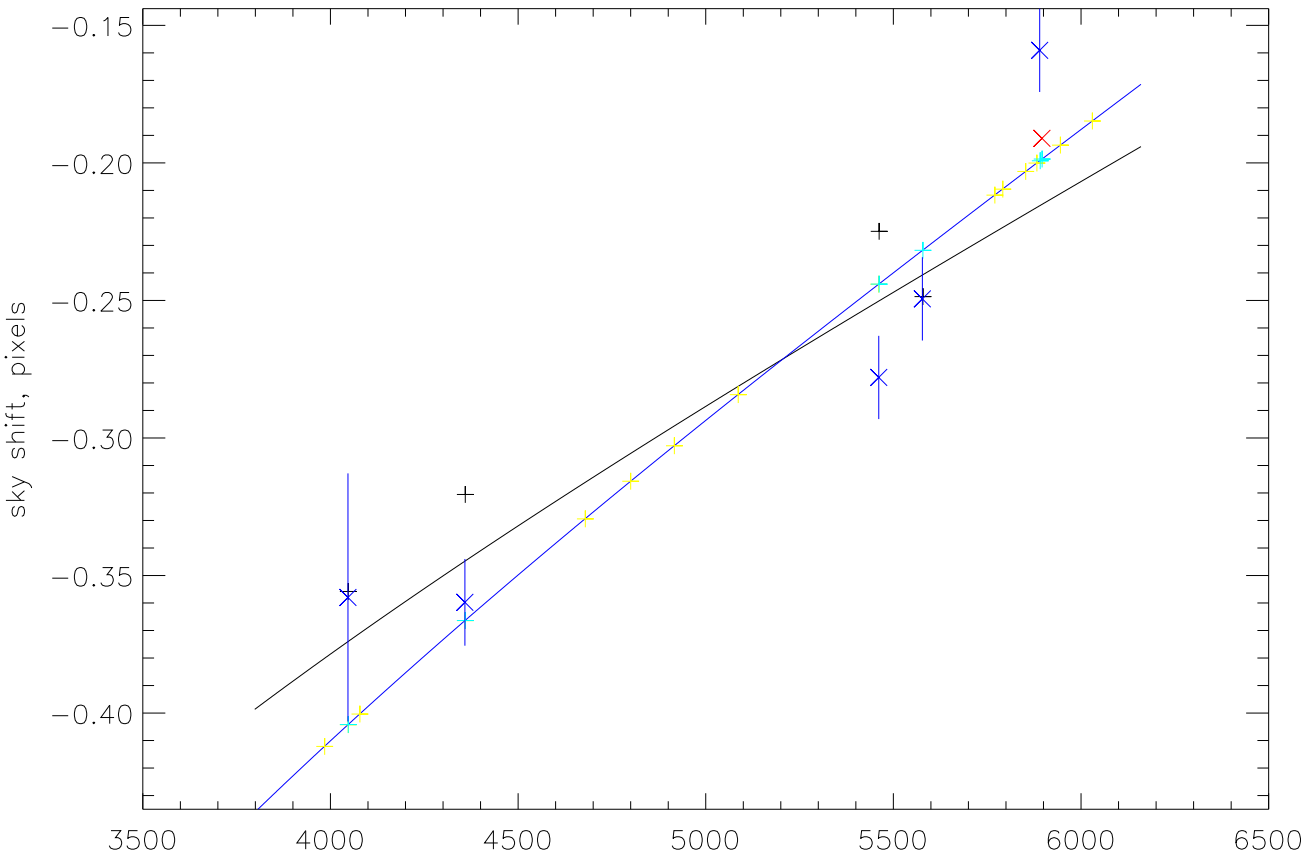

5460.9400
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

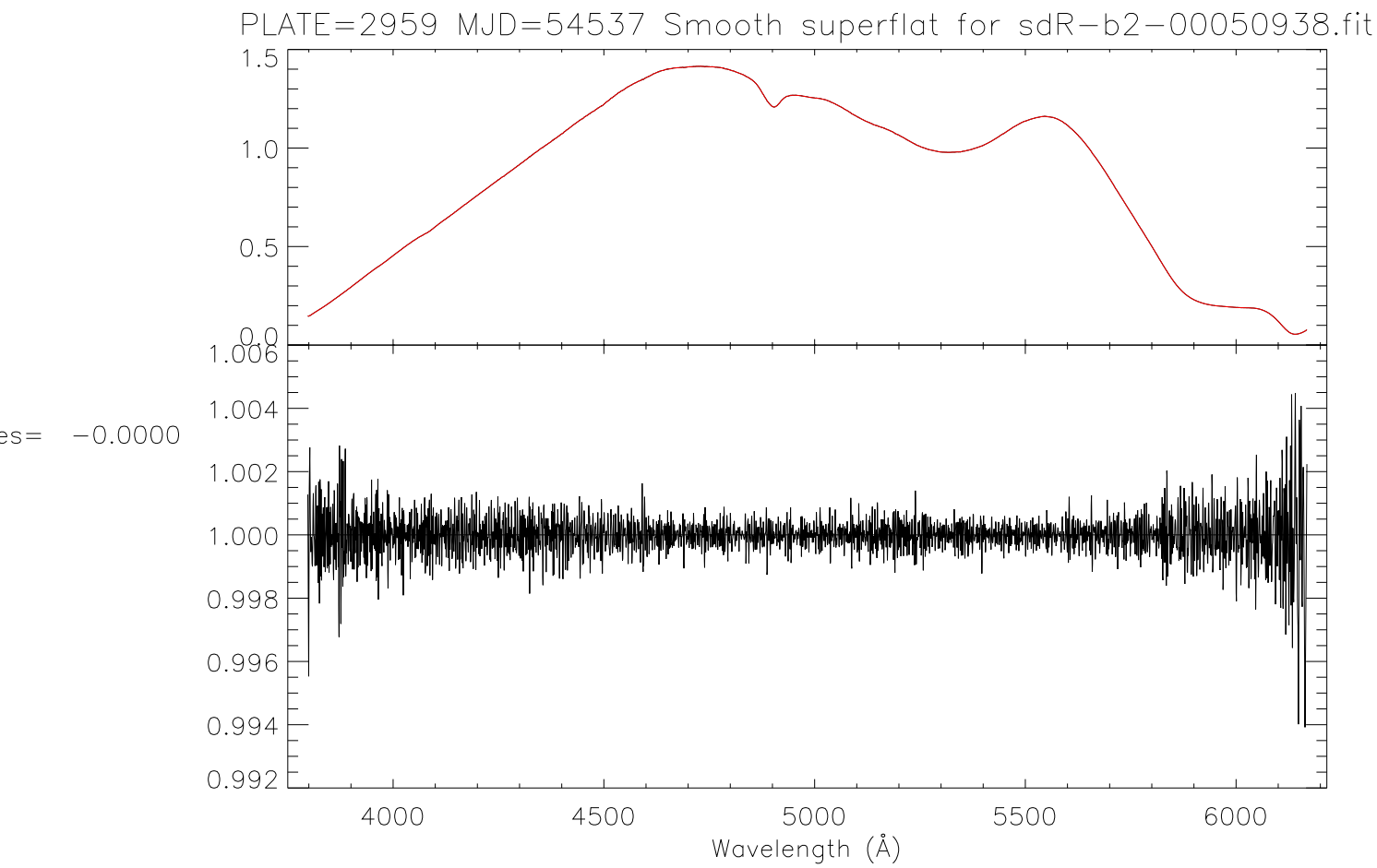

5577.3390
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400


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

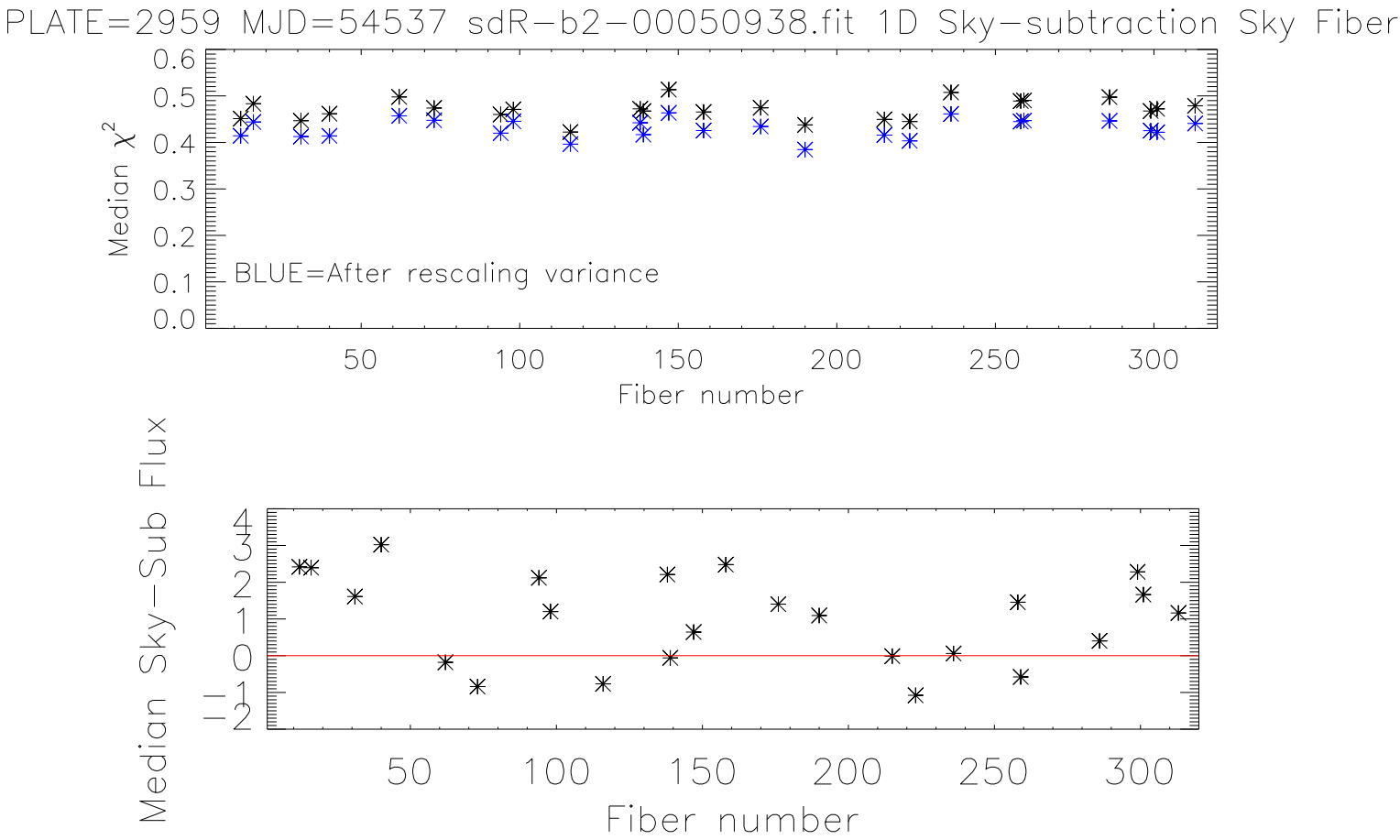

5895.9240
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

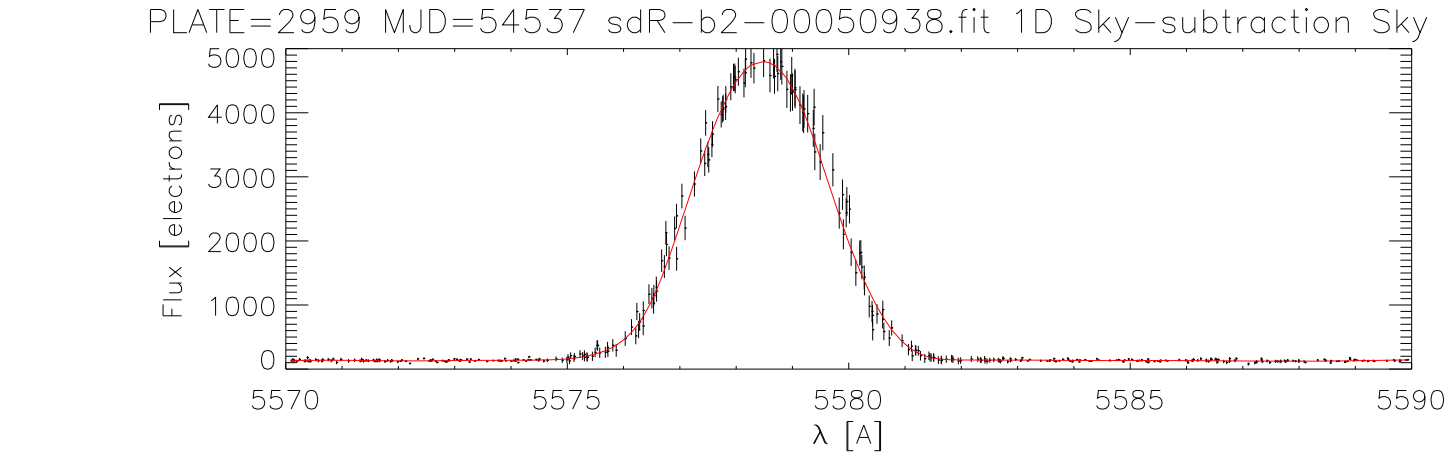

4046.5600
nfib1 24
nfib2 24
stdev 0.088
extra −0.36
4358.3300
nfib1 24
nfib2 24
stdev 0.053
extra −0.36
5460.9400
nfib1 24
nfib2 24
stdev 0.043
extra −0.28
5577.3390
nfib1 23
nfib2 23
stdev 0.010
extra −0.25
5889.9500
nfib1 24
nfib2 24
stdev 0.047
extra −0.16
5895.9240
nfib1 24
nfib2 24
stdev 0.067
extra −0.19
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

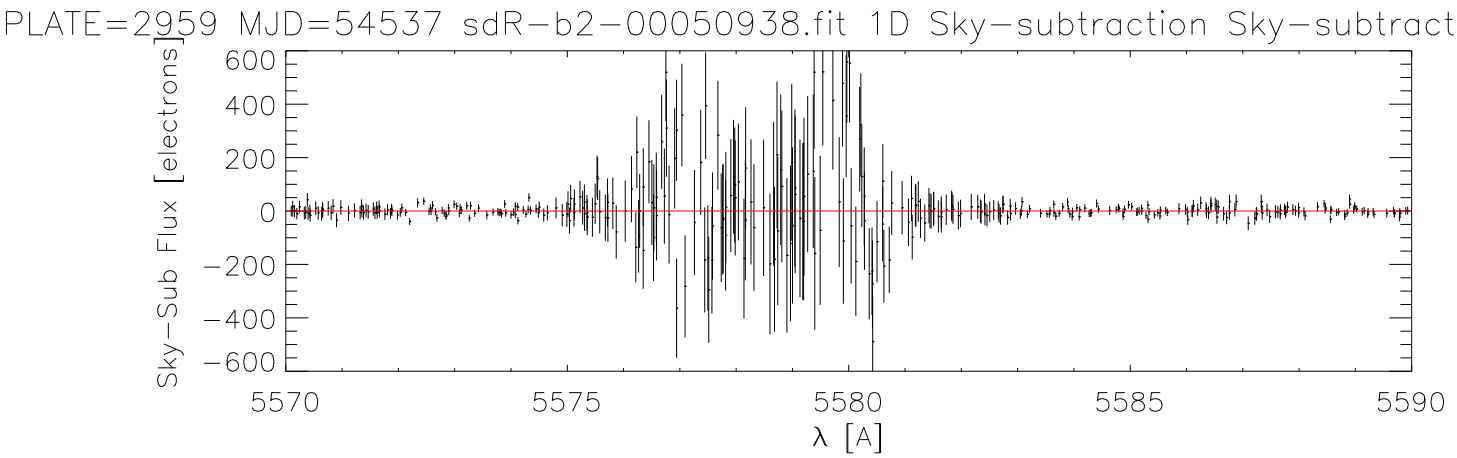

−0.15
−0.20
−0.25
−0.30
−0.35
−0.40
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

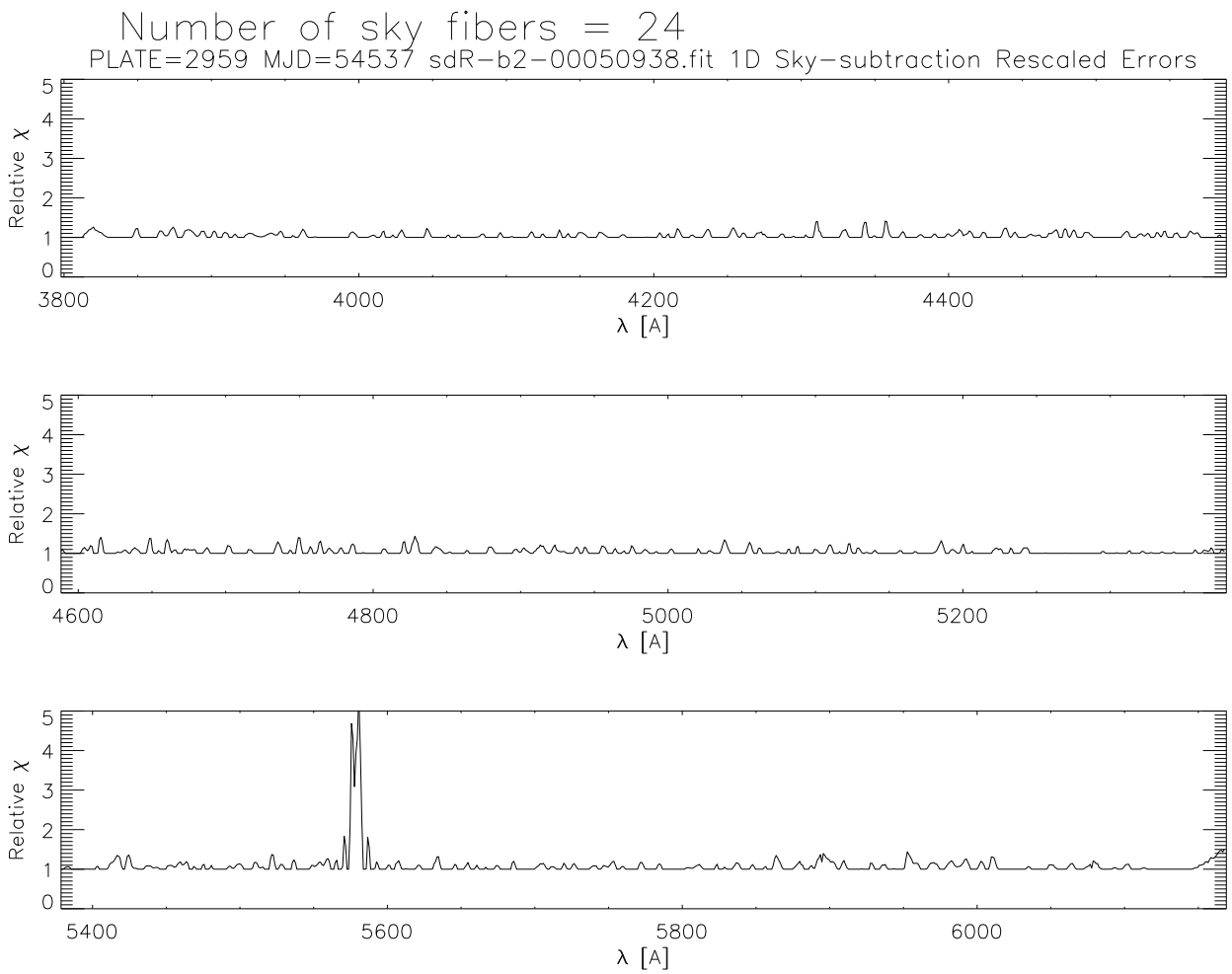

PLATE=2959 MJD=54537 Smooth superflat for sdR-b2-00050938.fit
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
4000
4500
5000
5500
6000
Wavelength (Å)

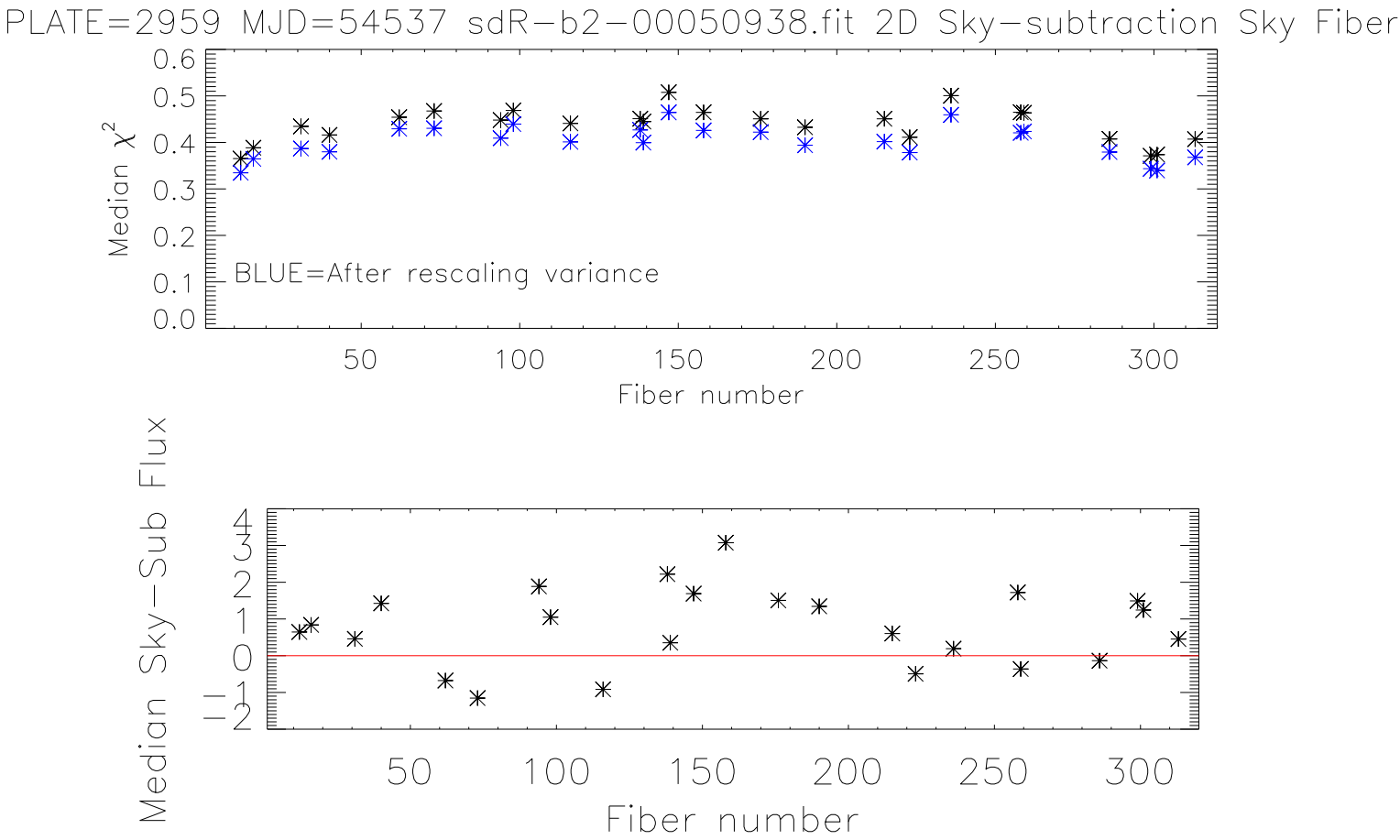
es= −0.0000

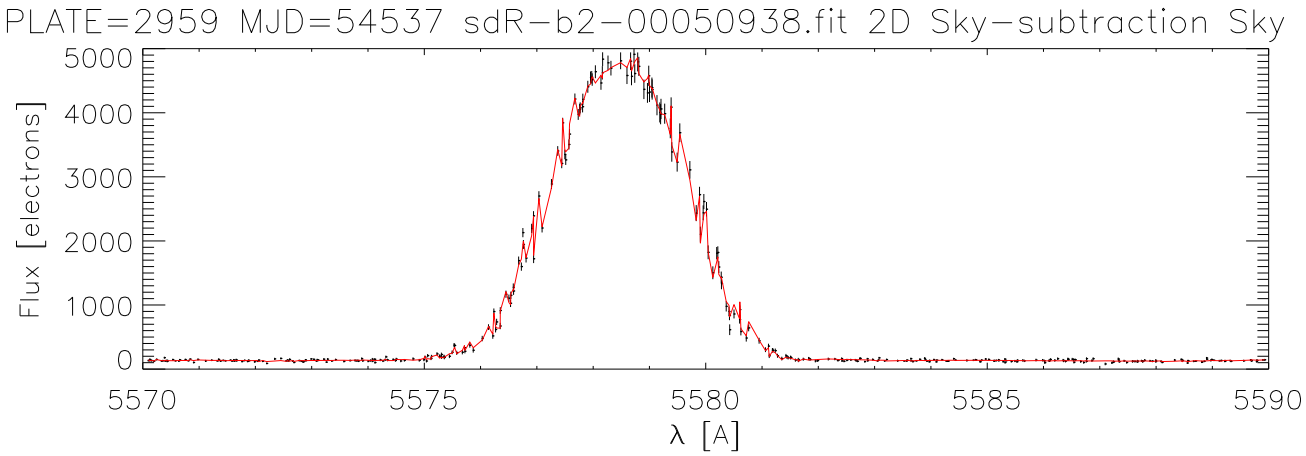

PLATE=2959 MJD=54537 sdR-b2-00050938.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

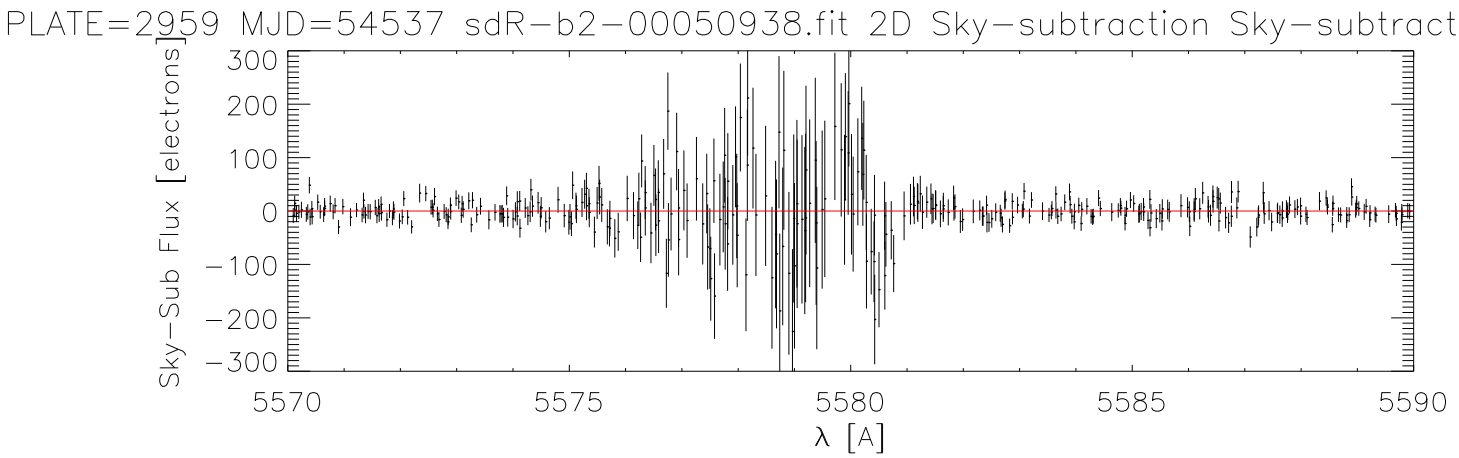

PLATE=2959 MJD=54537 sdR-b2-00050938.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

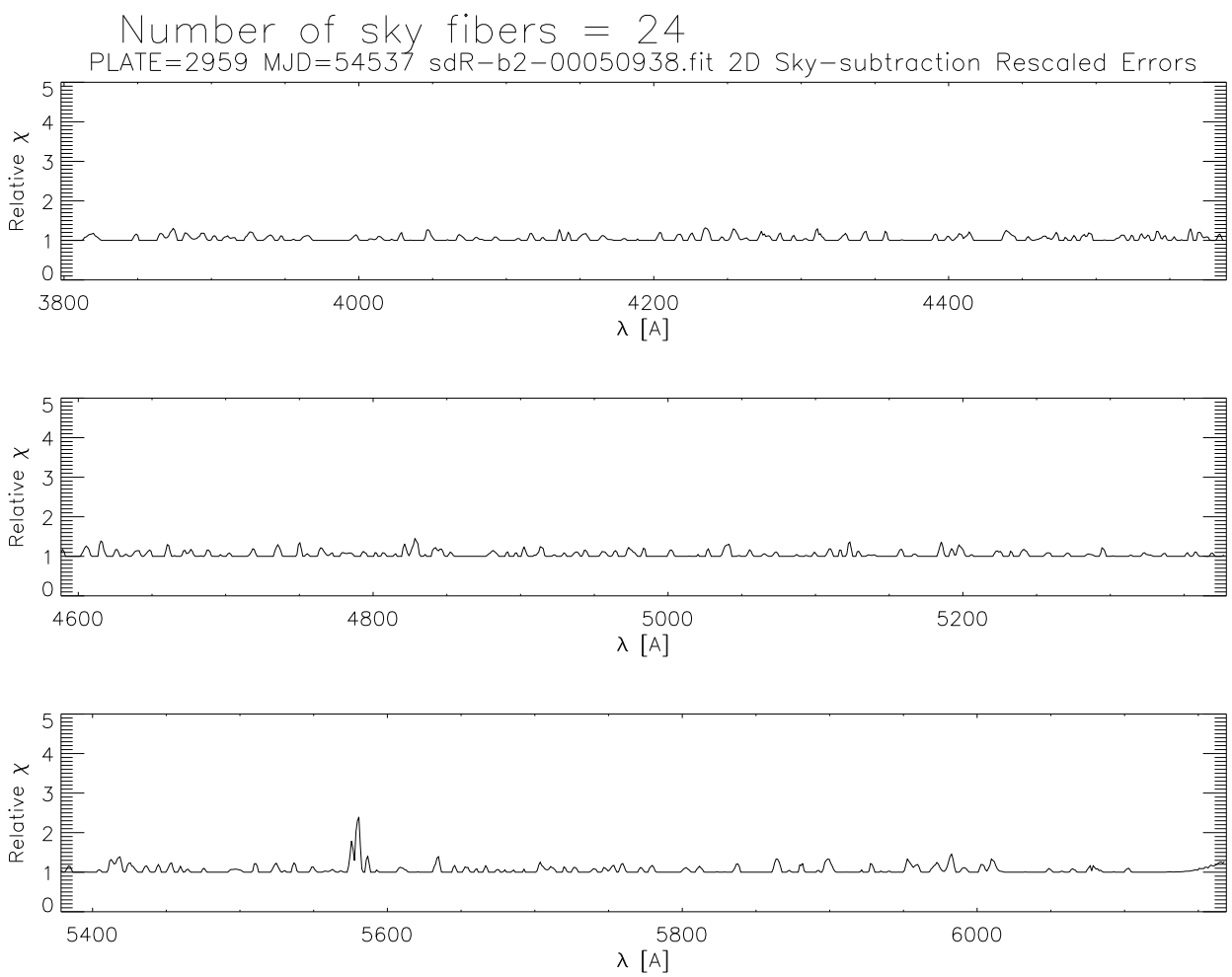

PLATE=2959 MJD=54537 sdR-b2-00050938.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

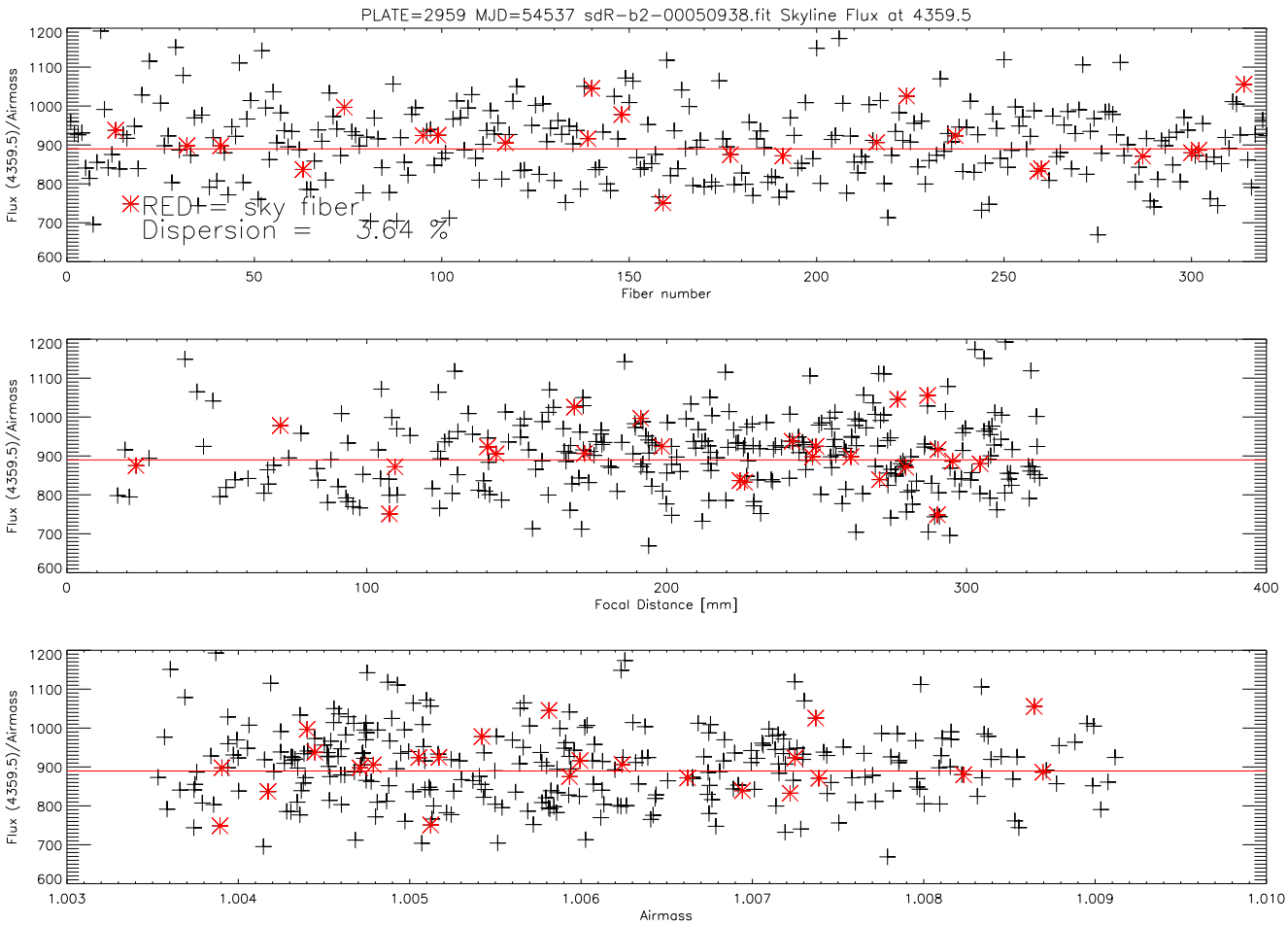

Number of sky fibers = 24
PLATE=2959 MJD=54537 sdR-b2-00050938.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

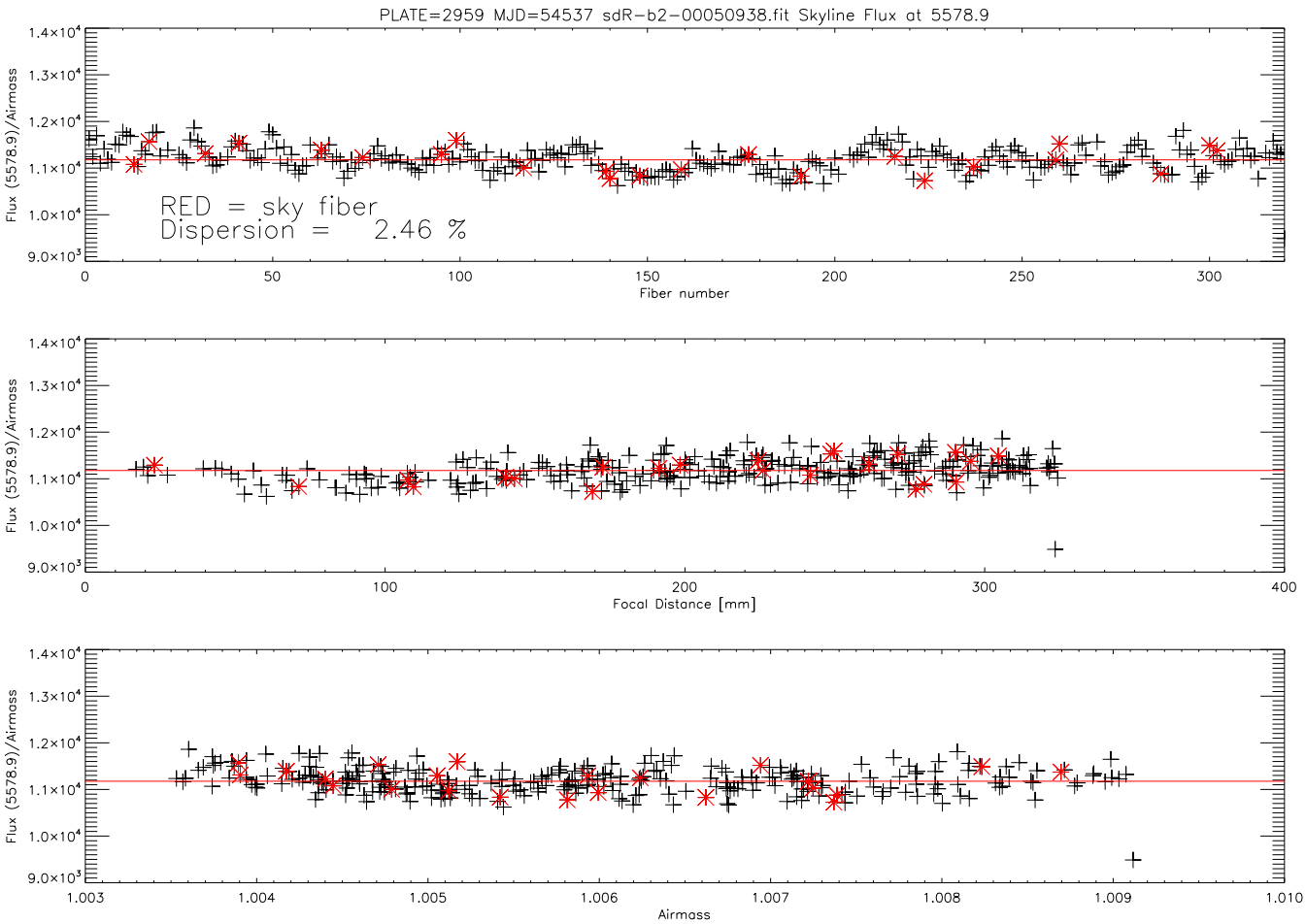

PLATE=2959 MJD=54537 sdR-b2-00050938.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

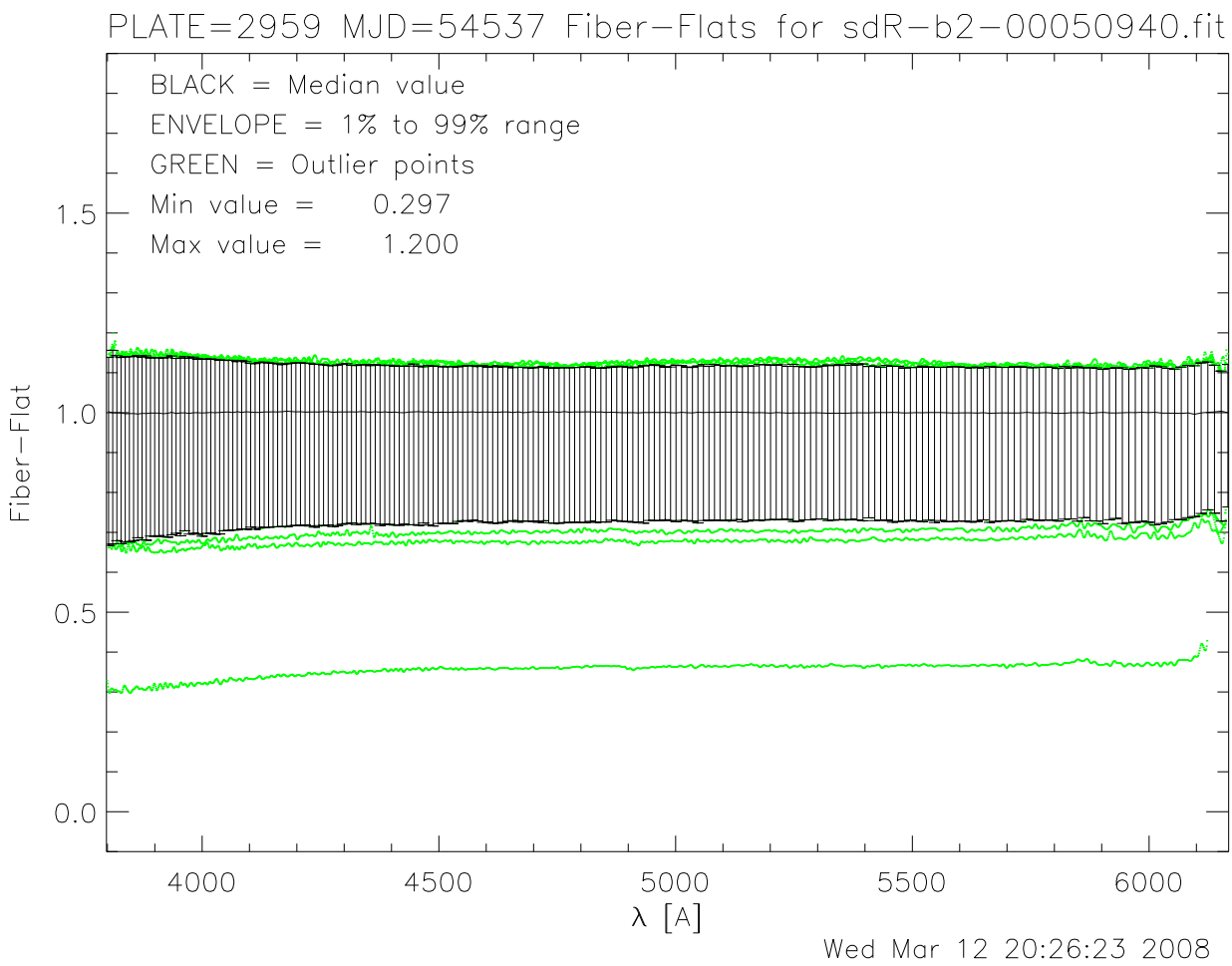

PLATE=2959 MJD=54537 sdR-b2-00050938.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

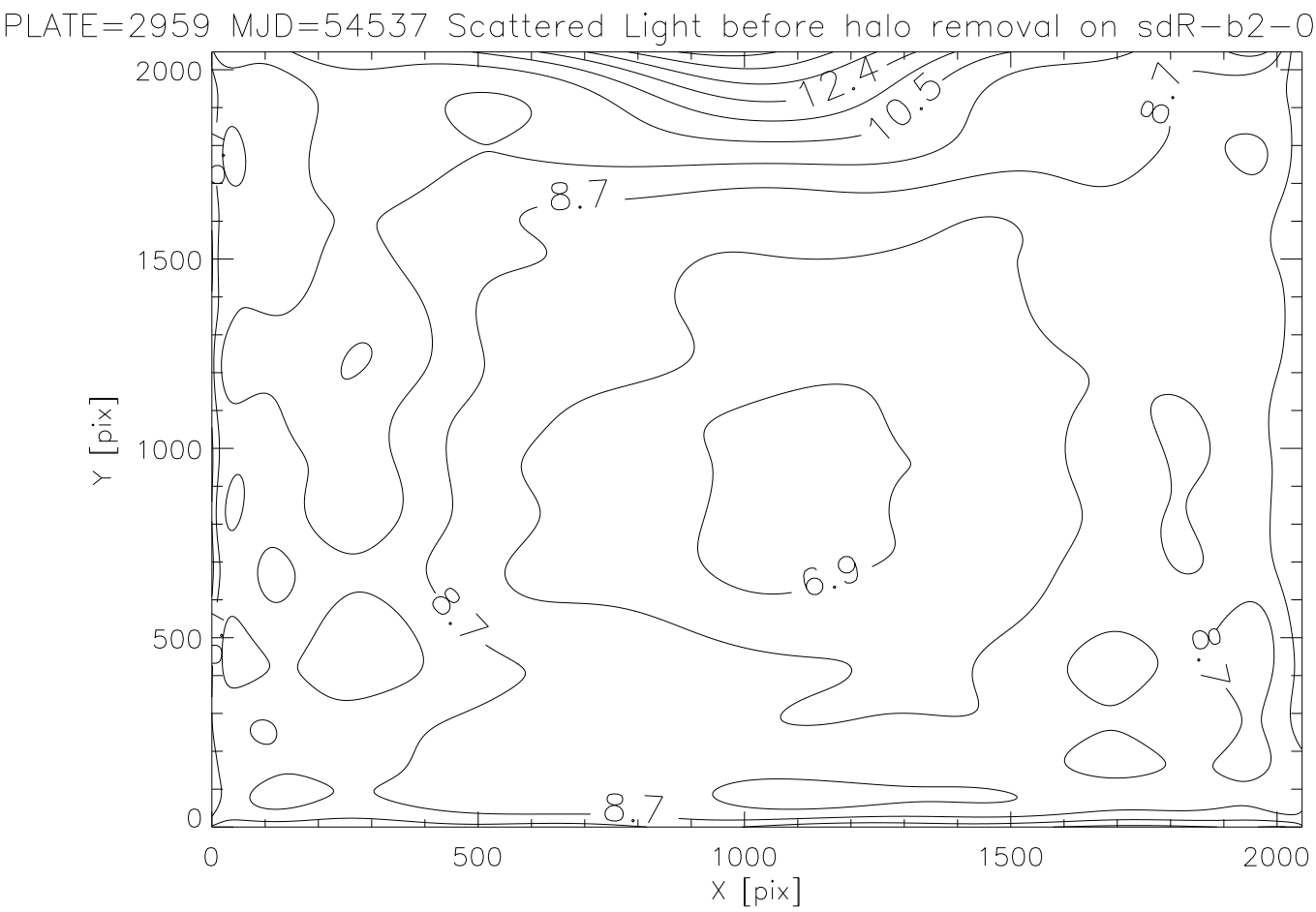

PLATE=2959 MJD=54537 sdR-b2-00050938.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

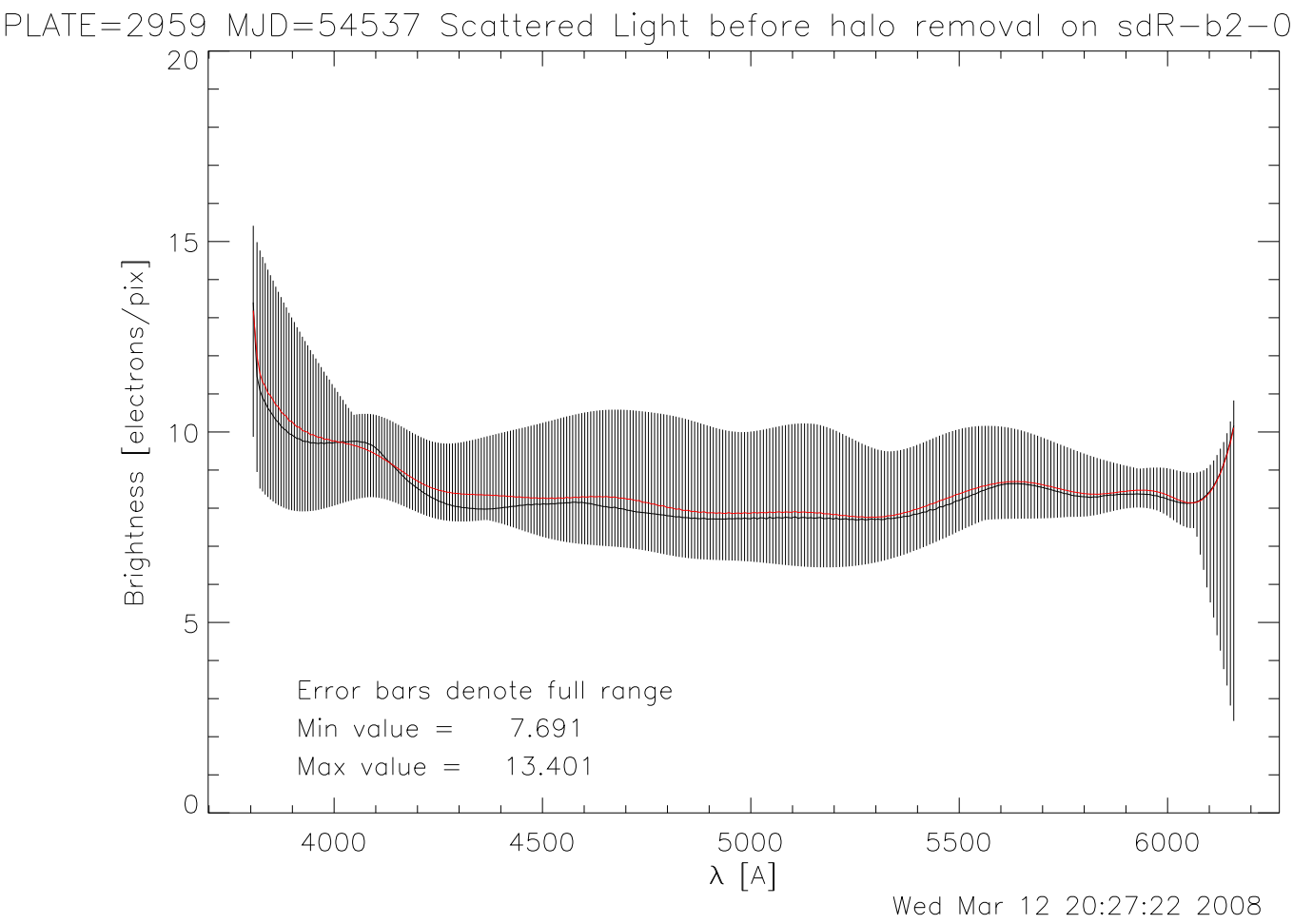

Number of sky fibers = 24
PLATE=2959 MJD=54537 sdR-b2-00050938.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

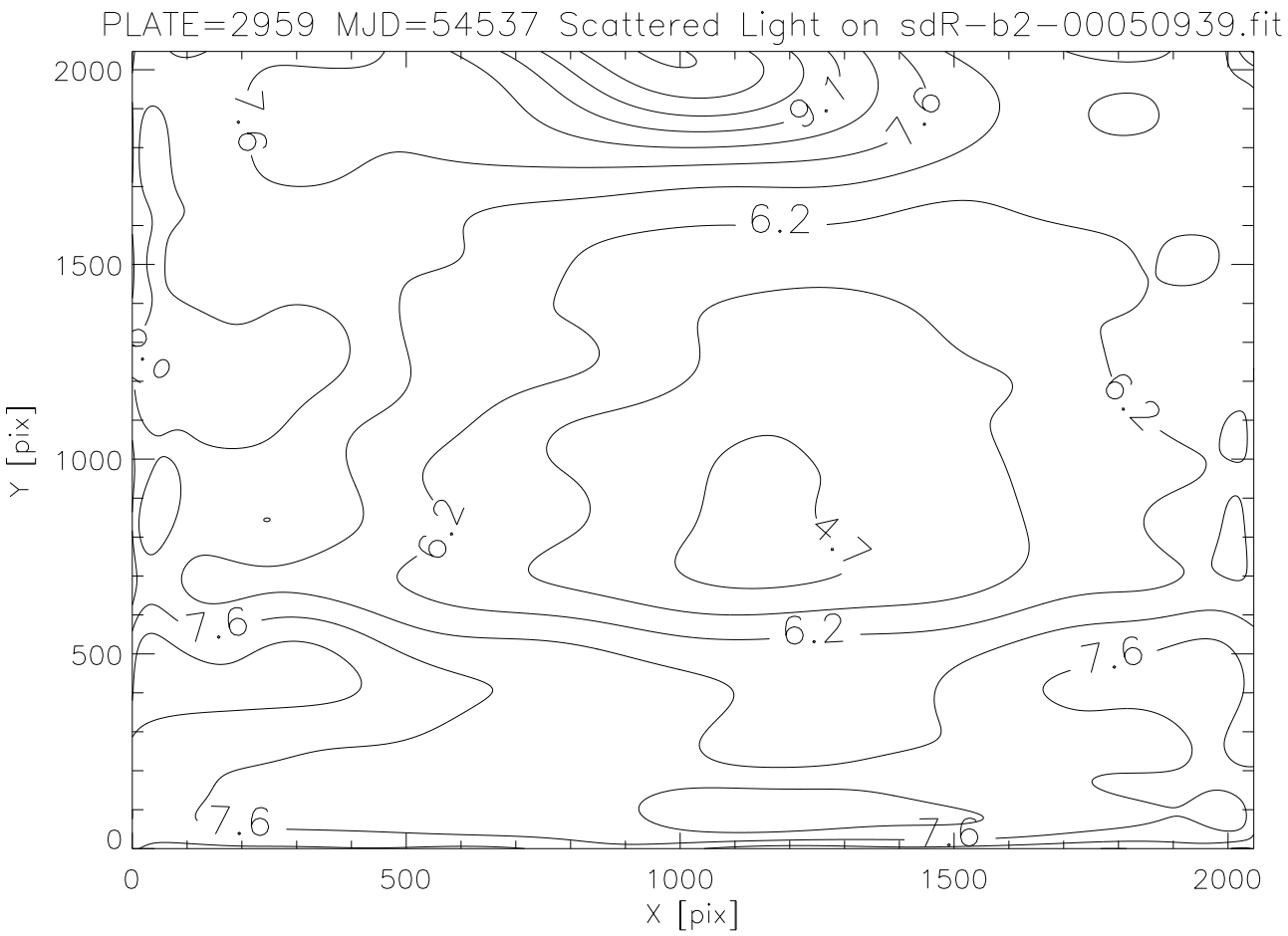

PLATE=2959 MJD=54537 sdR-b2-00050938.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED= sky fiber
Dispersion = 3.64 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

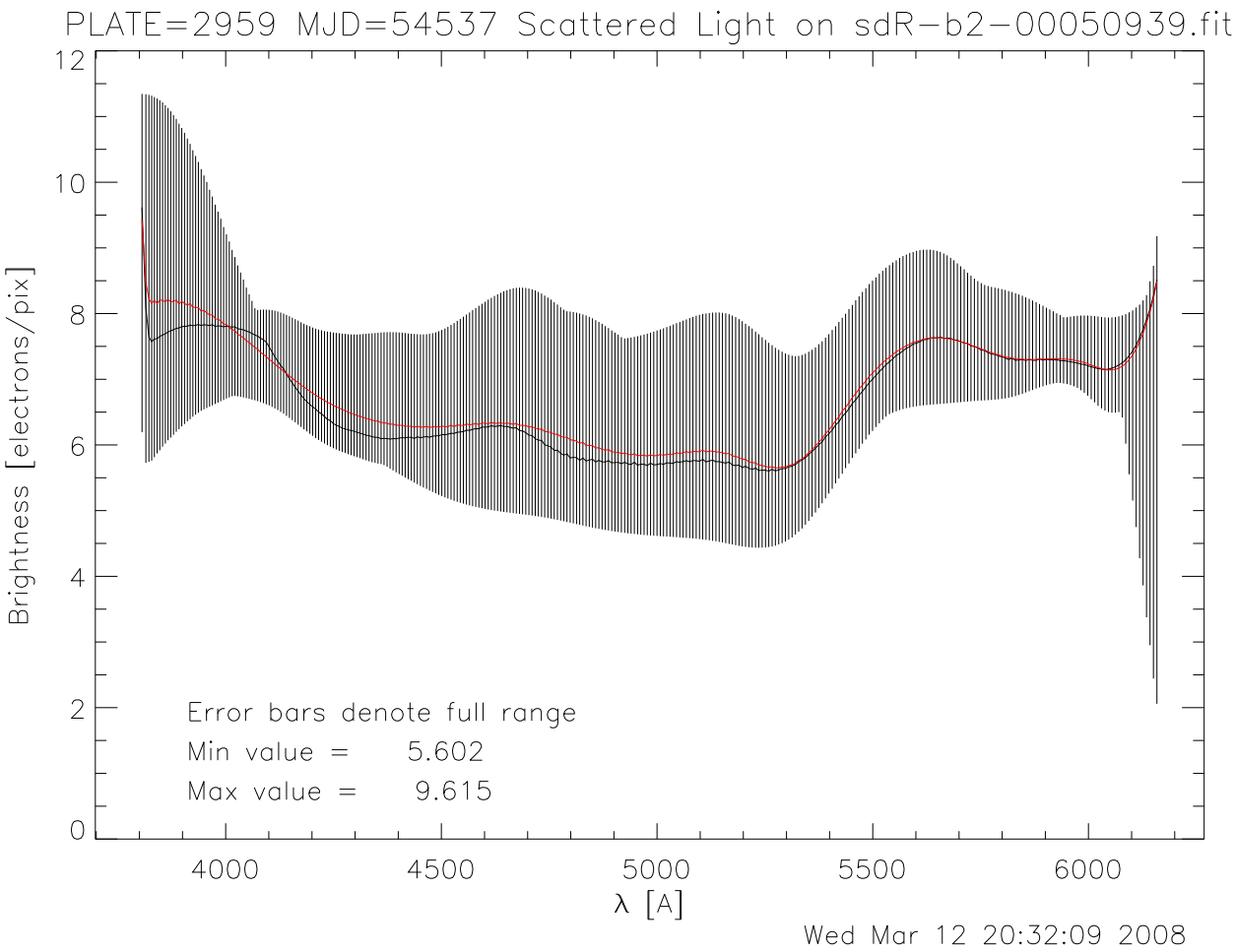

PLATE=2959 MJD=54537 sdR-b2-00050938.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.46 %
Fiber number
Focal Distance [mm]
Airmass

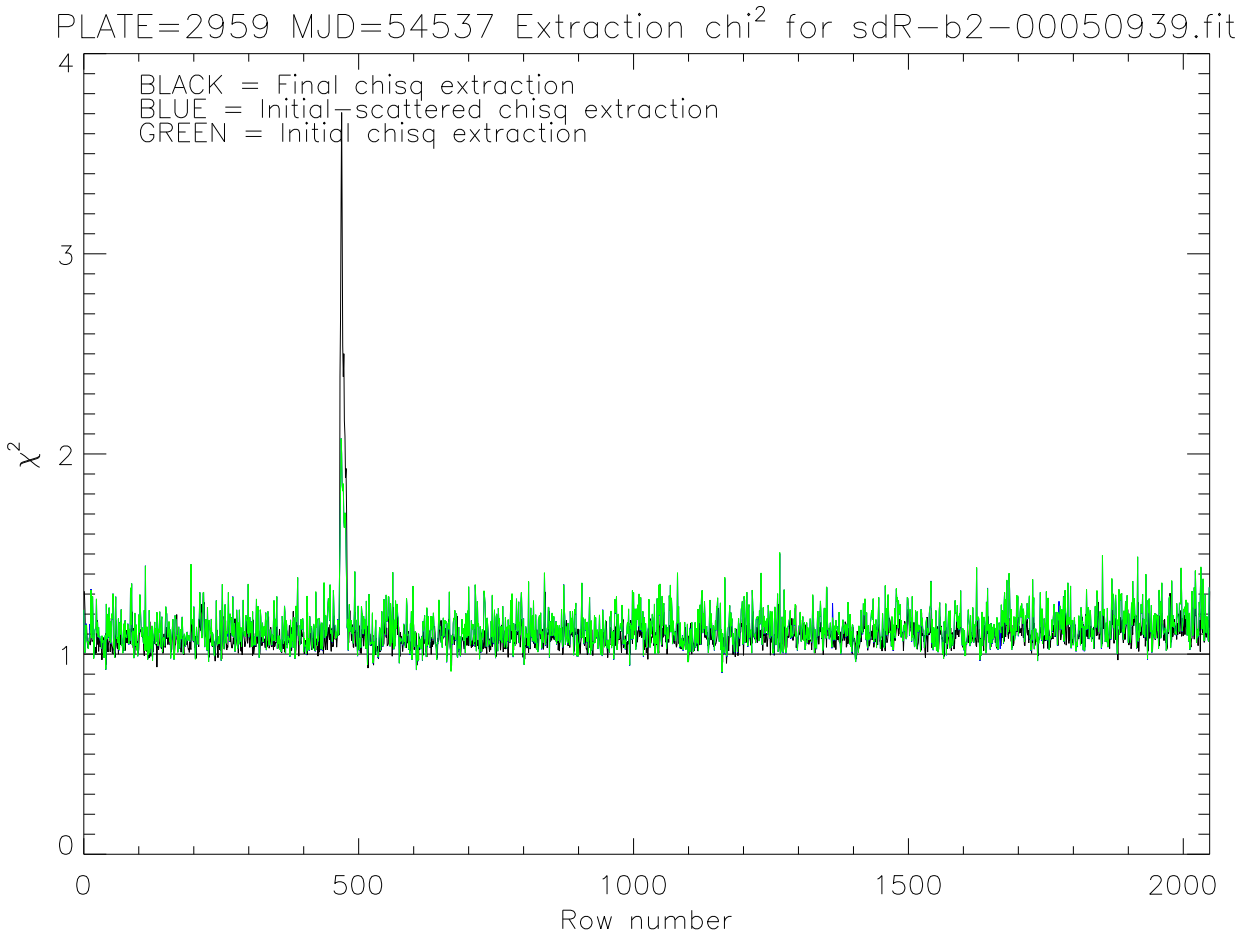

PLATE=2959 MJD=54537 Fiber-Flats for sdR-b2-00050940.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.297
Max value = 1.200
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 20:26:23 2008

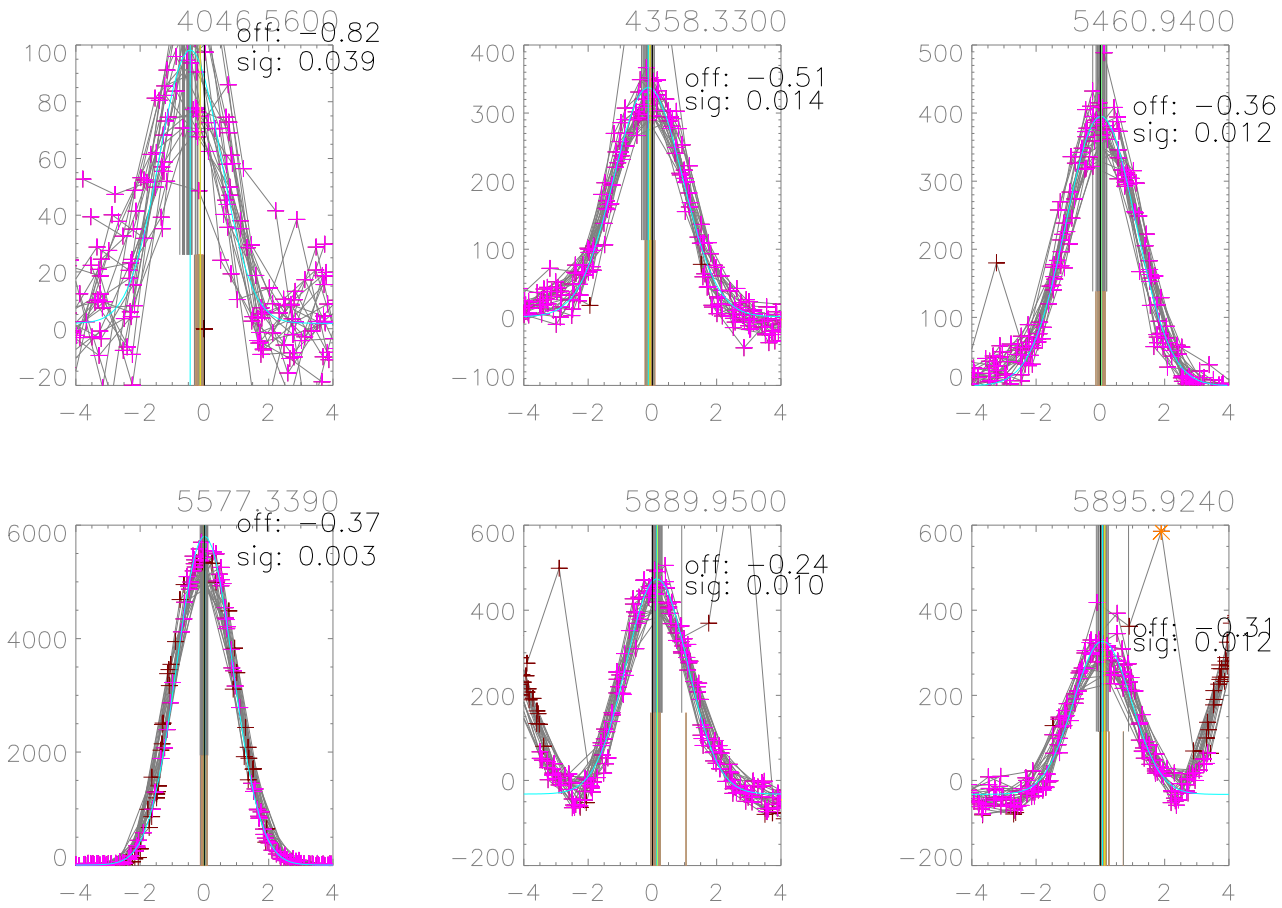

PLATE=2959 MJD=54537 Scattered Light before halo removal on sdR−b2−00050939.f
12.4
10.5
8.7
8.7
6.9
8.7
8.7
8.7
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

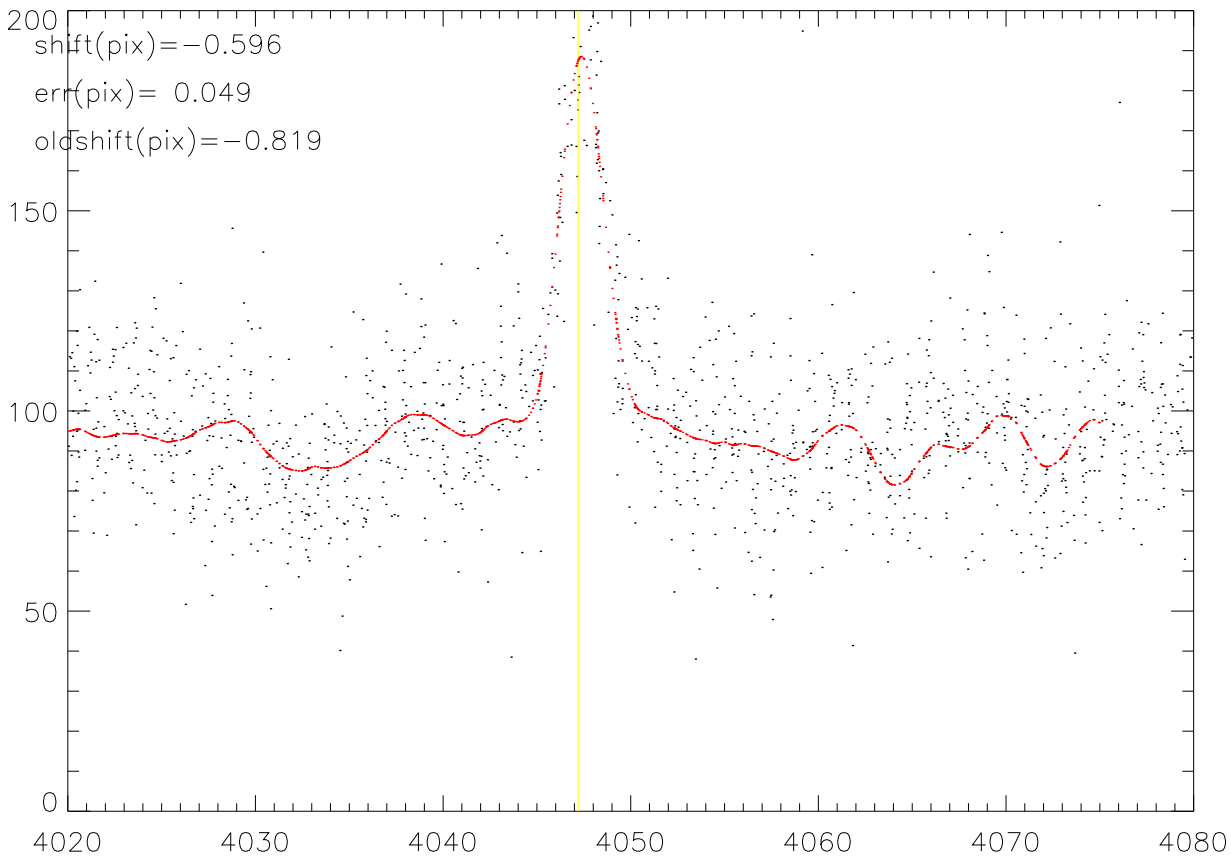

PLATE=2959 MJD=54537 Scattered Light before halo removal on sdR-b2-00050939.f
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 7.691
Max value = 13.401
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 20:27:22 2008

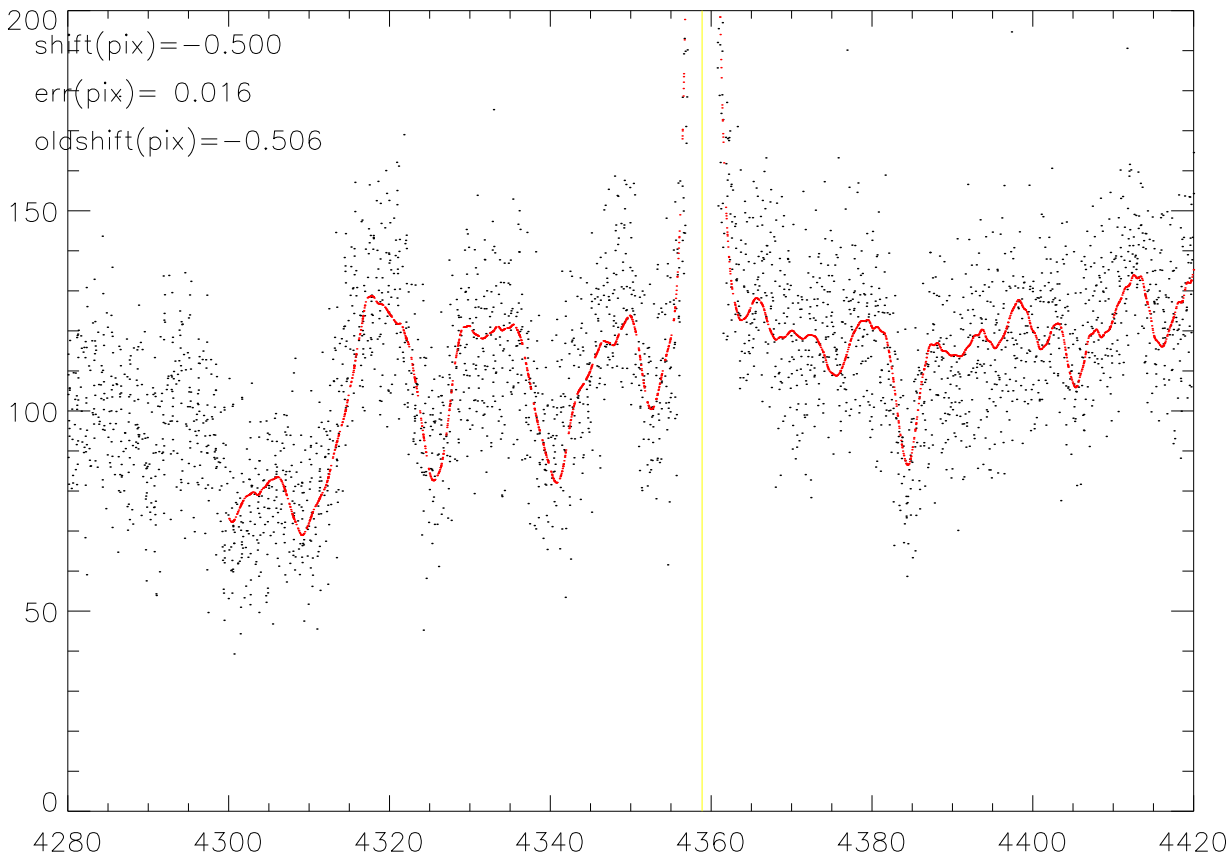

PLATE=2959 MJD=54537 Scattered Light on sdR-b2-00050939.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
9.1
7.6
6.2
7.6
6.2
6.2
7.6
6.2
7.6
7.6
7.6

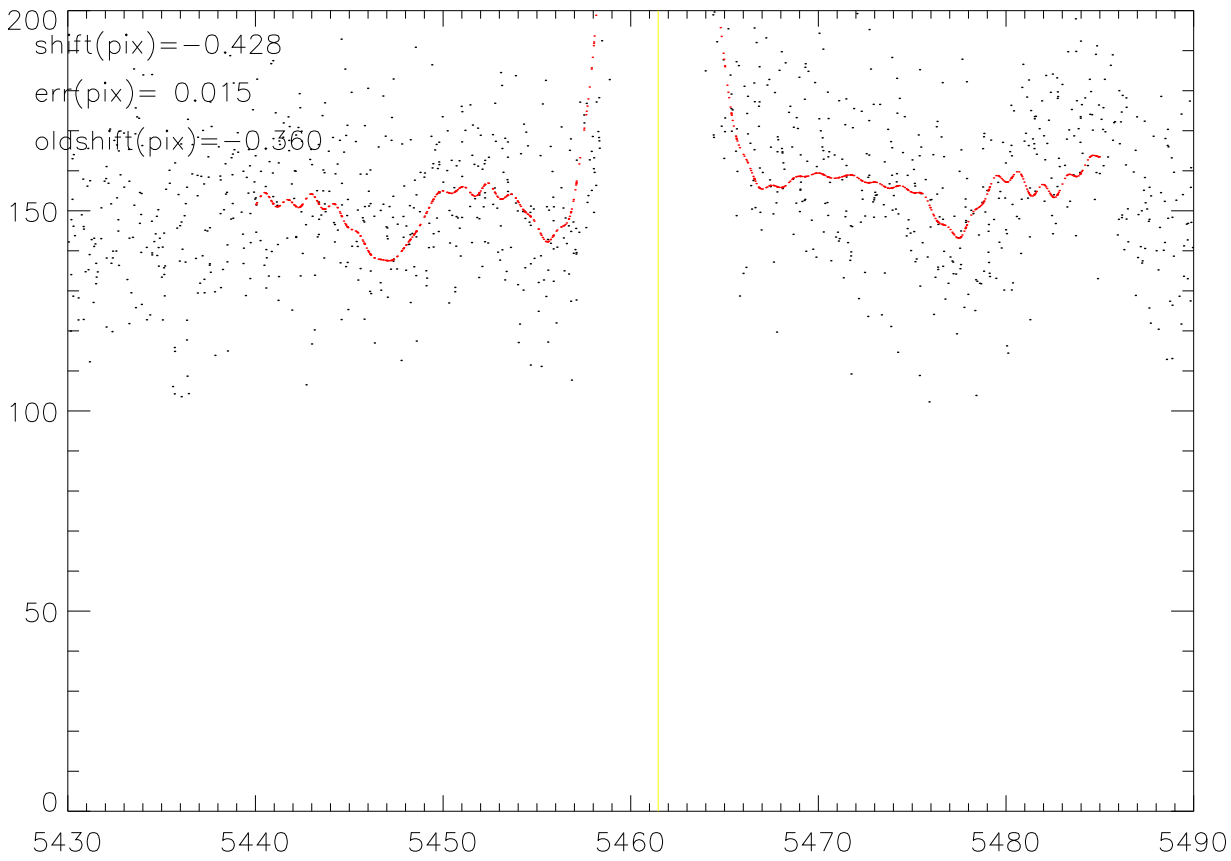

PLATE=2959 MJD=54537 Scattered Light on sdR-b2-00050939.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.602
Max value = 9.615
Wed Mar 12 20:32:09 2008

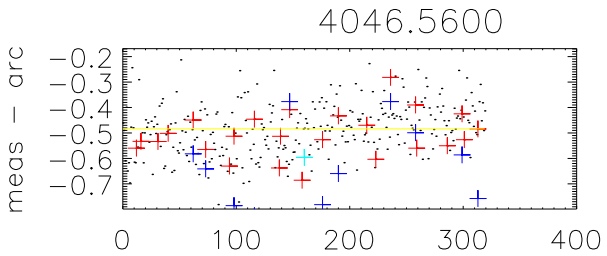

PLATE=2959 MJD=54537 Extraction chi^2 for sdR-b2-00050939.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

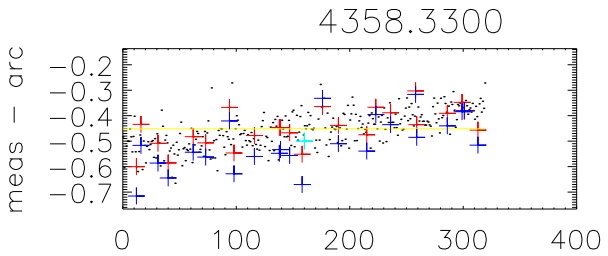

4046.5600
off: −0.82
sig: 0.039
4358.3300
off: −0.51
sig: 0.014
5460.9400
off: −0.36
sig: 0.012
5577.3390
off: −0.37
sig: 0.003
5889.9500
off: −0.24
sig: 0.010
5895.9240
off: −0.31
sig: 0.012

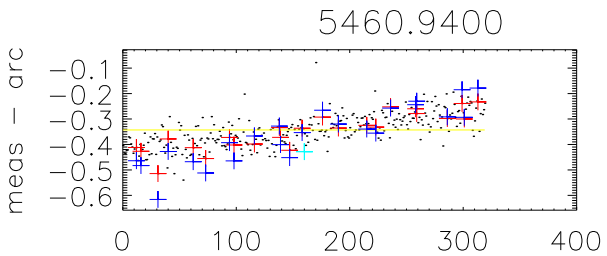

shift(pix)=−0.596
err(pix)= 0.049
oldshift(pix)=−0.819
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

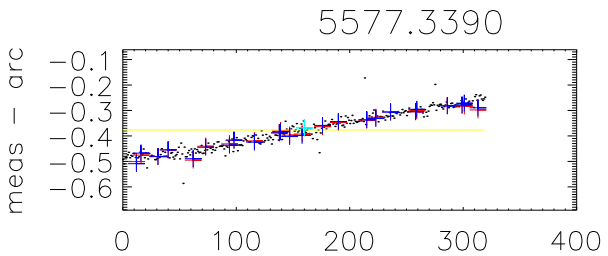

shift(pix)=−0.500
err(pix)= 0.016
oldshift(pix)=−0.506
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

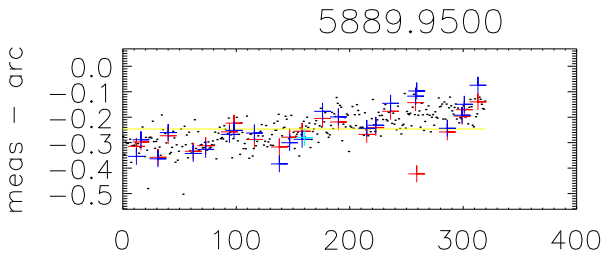

shift(pix)=−0.428
err(pix)= 0.015
oldshift(pix)=−0.360
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

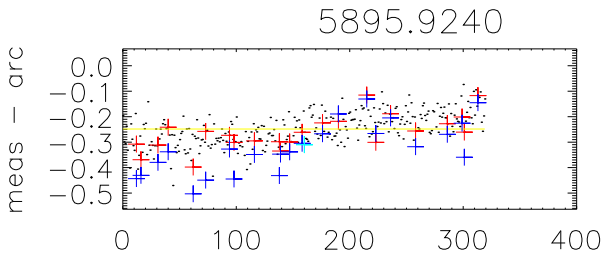

4046.5600
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

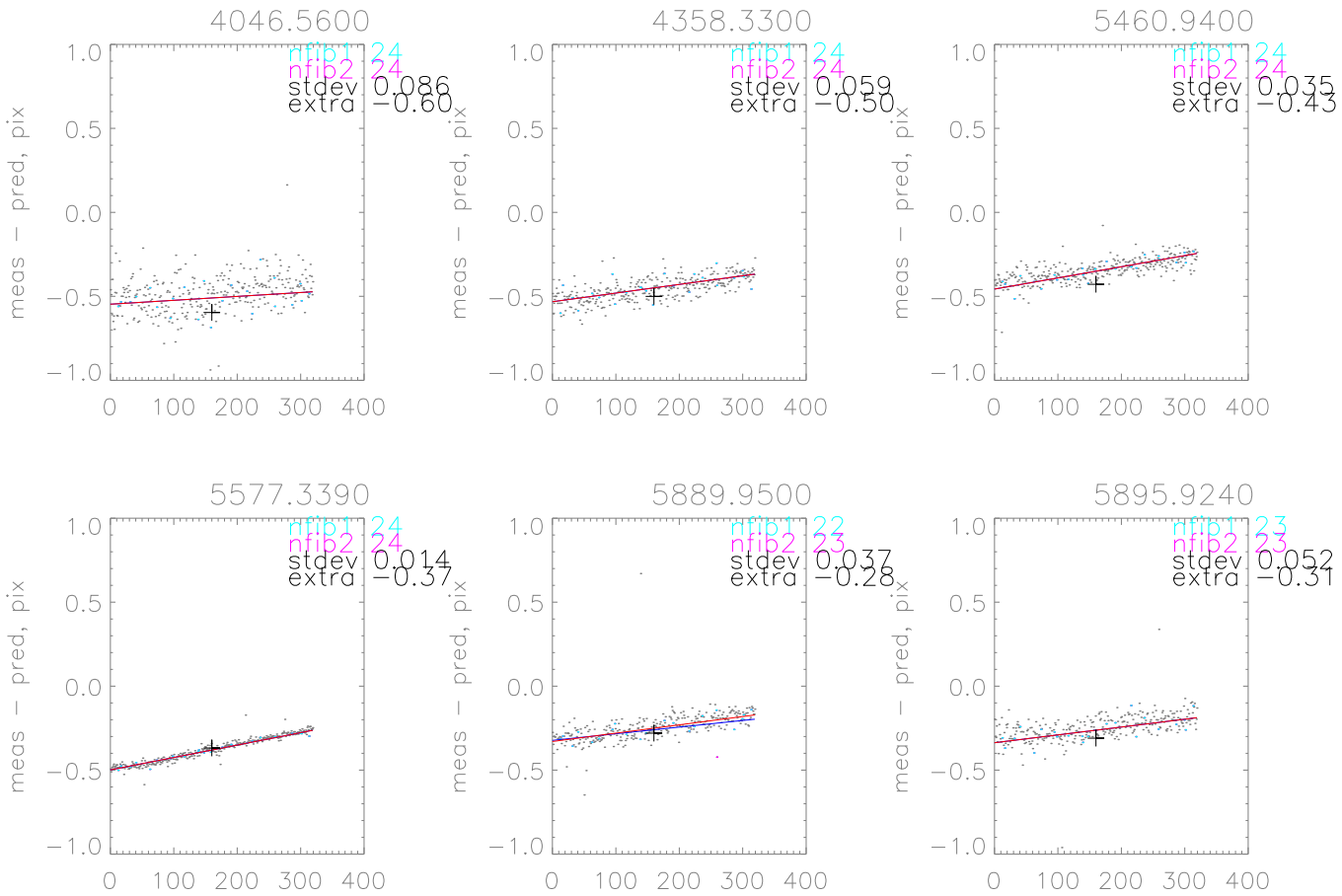

4358.3300
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

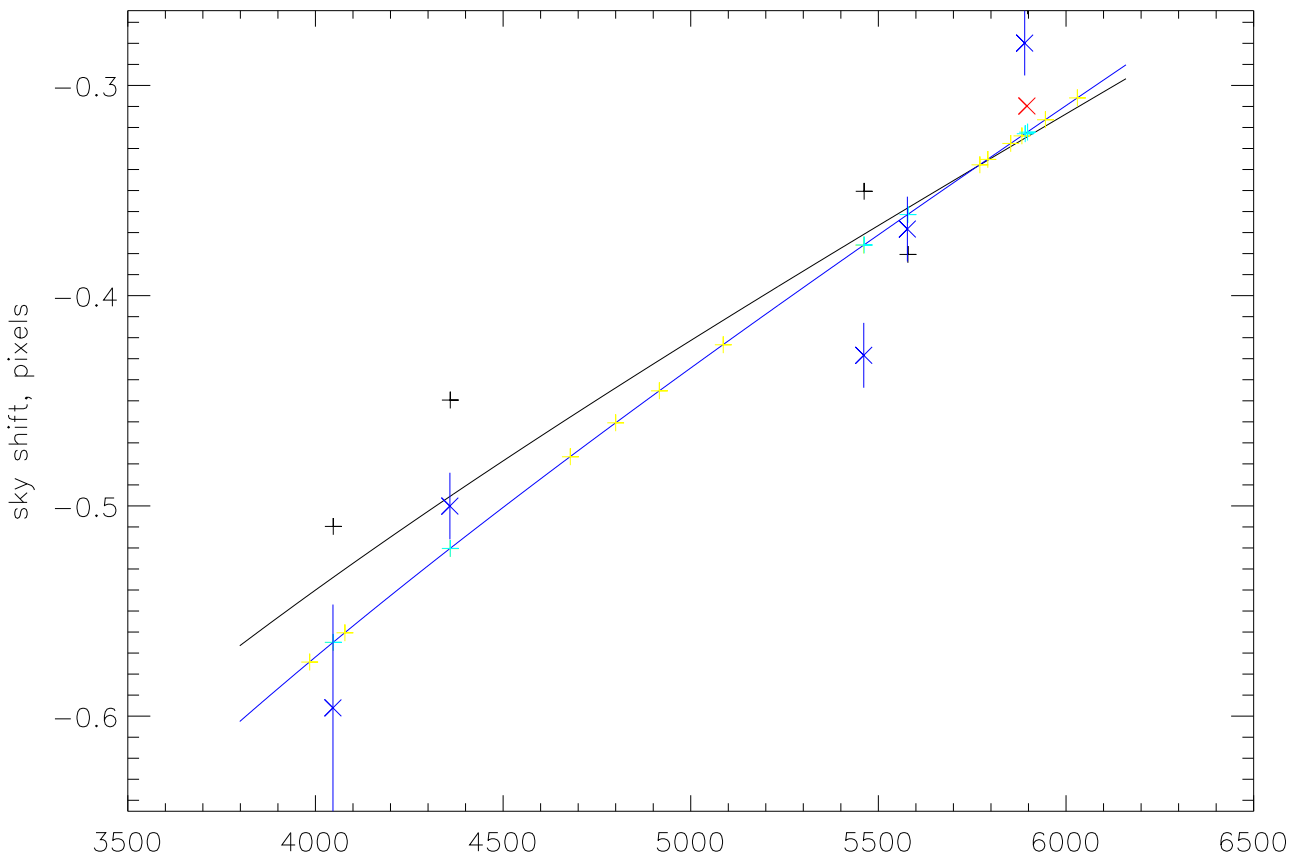

5460.9400
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

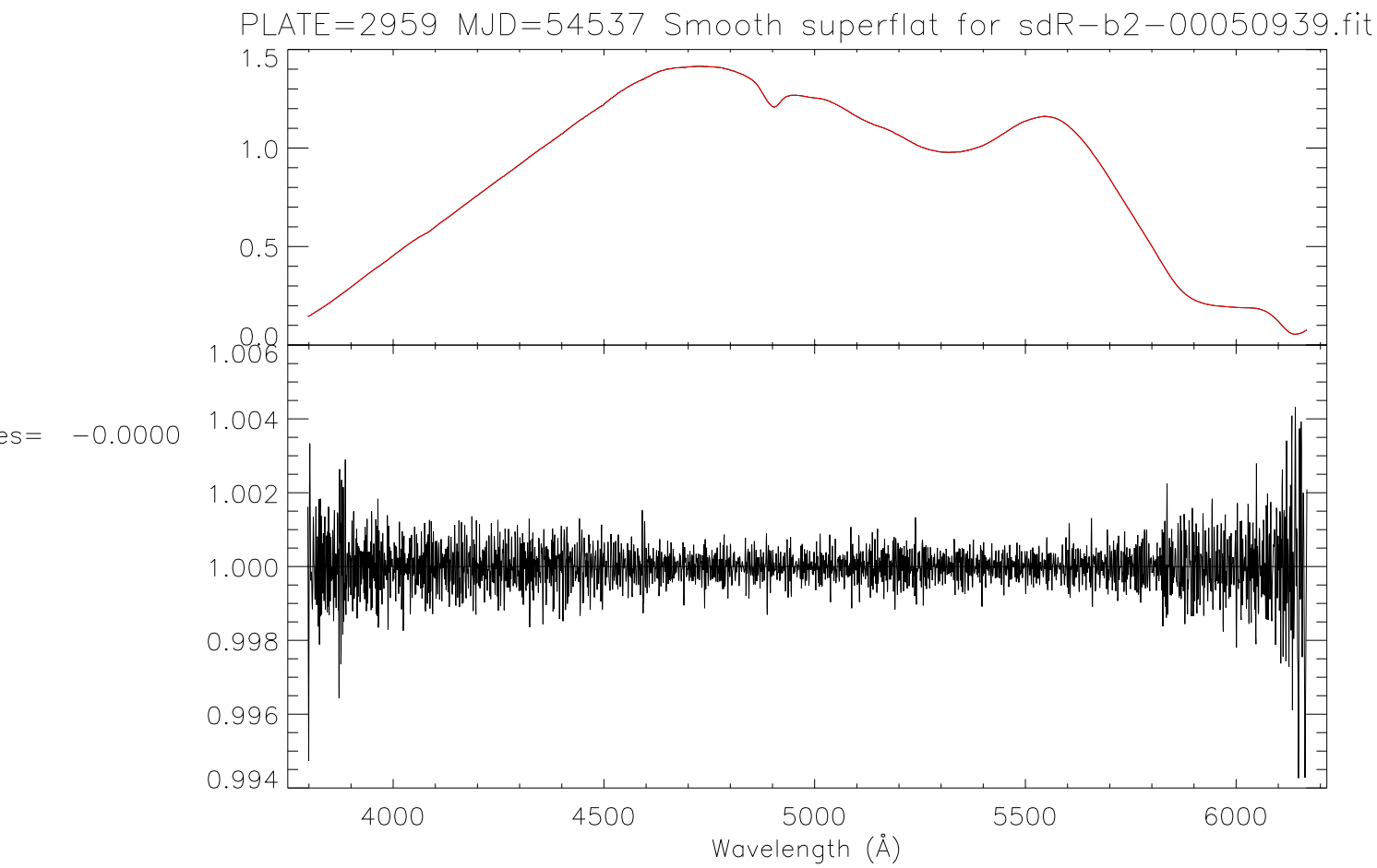

5577.3390
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400


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

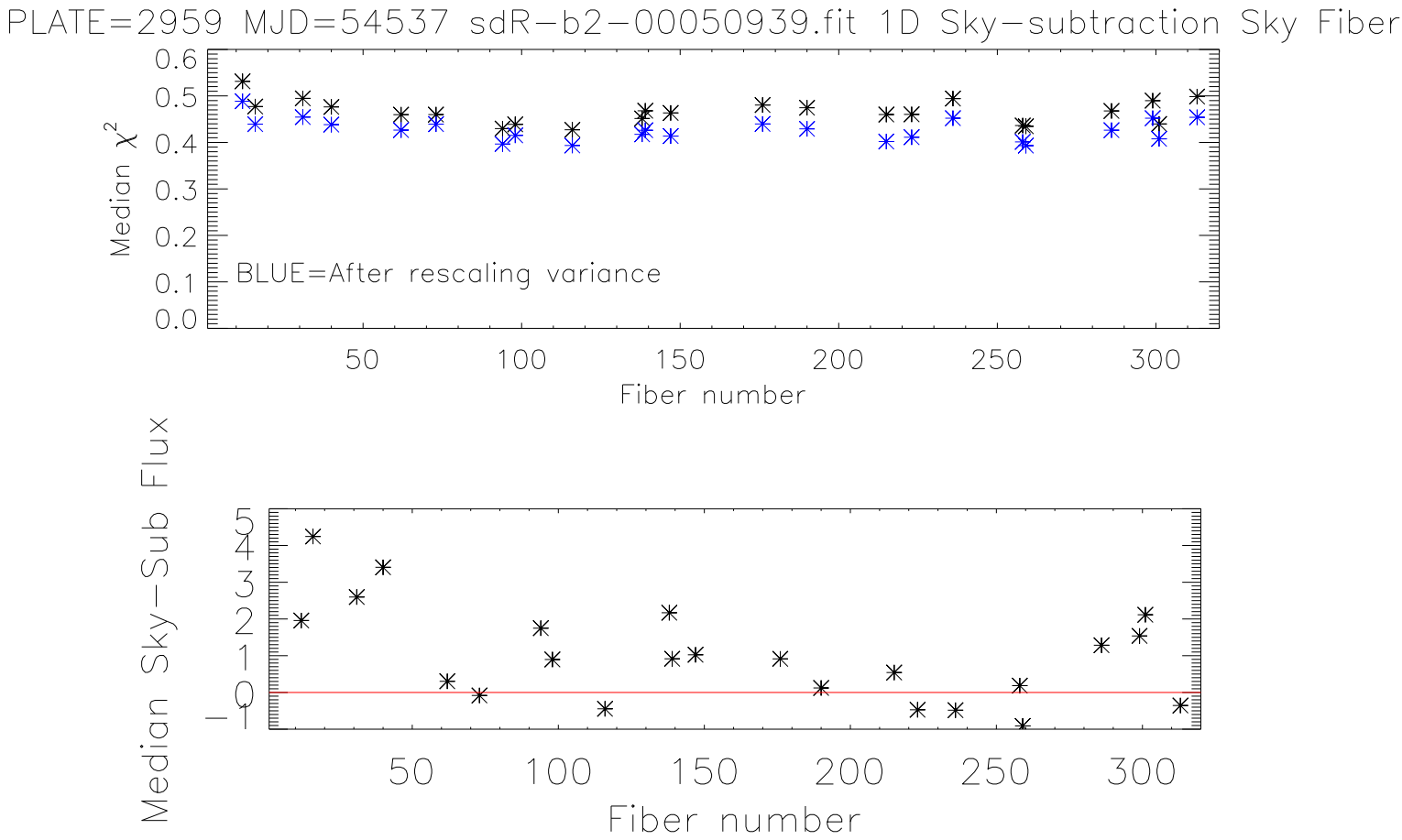

5895.9240
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

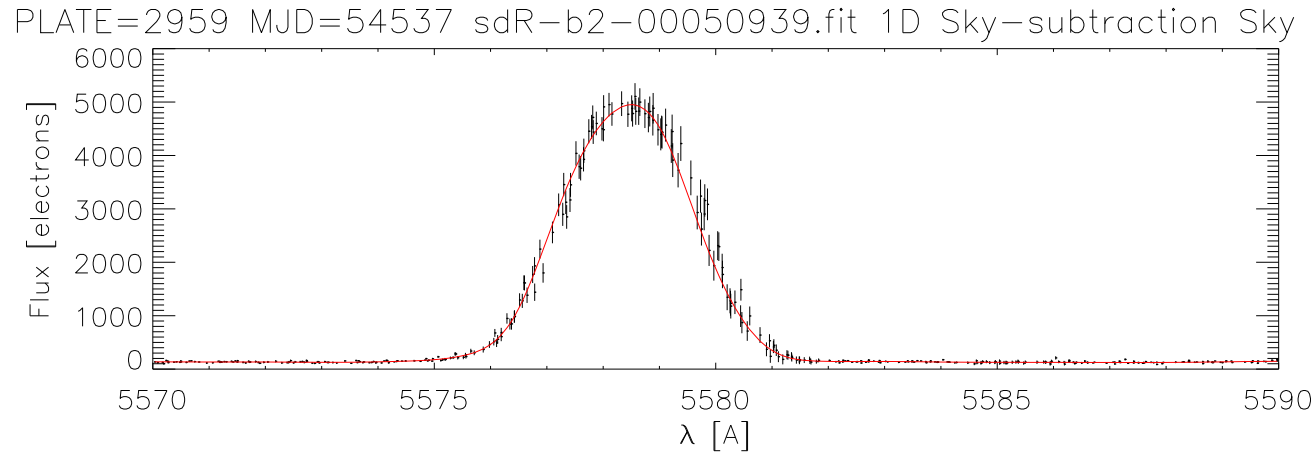

4046.5600
nfib1 24
nfib2 24
stdev 0.086
extra −0.60
4358.3300
nfib1 24
nfib2 24
stdev 0.059
extra −0.50
5460.9400
nfib1 24
nfib2 24
stdev 0.035
extra −0.43
5577.3390
nfib1 24
nfib2 24
stdev 0.014
extra −0.37
5889.9500
nfib1 22
nfib2 23
stdev 0.037
extra −0.28
5895.9240
nfib1 23
nfib2 23
stdev 0.052
extra −0.31
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

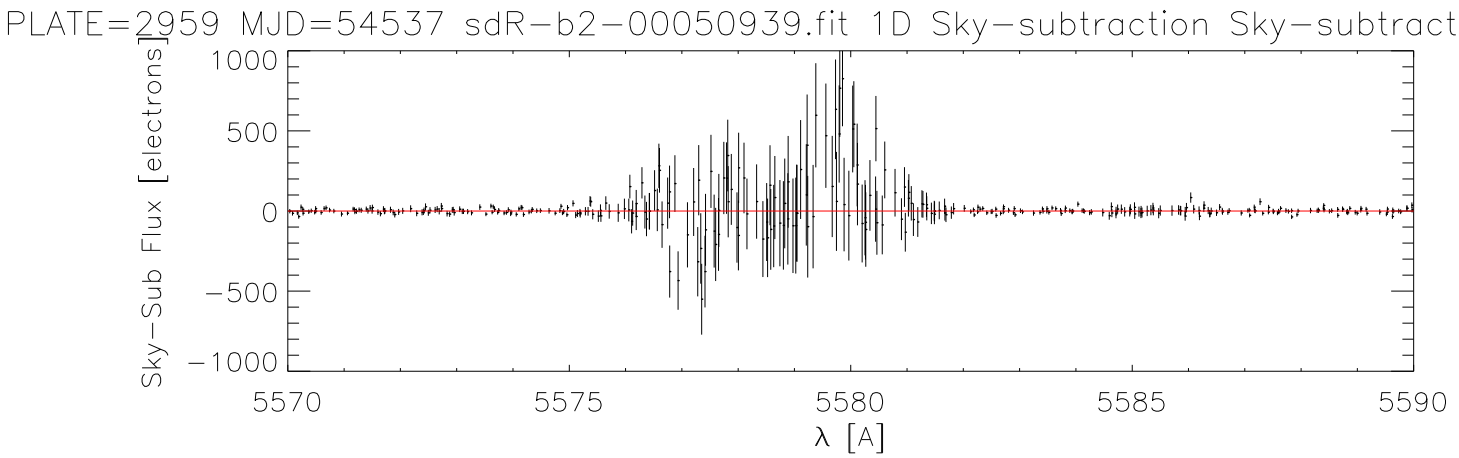

sky shift, pixels
−0.3
−0.4
−0.5
−0.6
3500
4000
4500
5000
5500
6000
6500

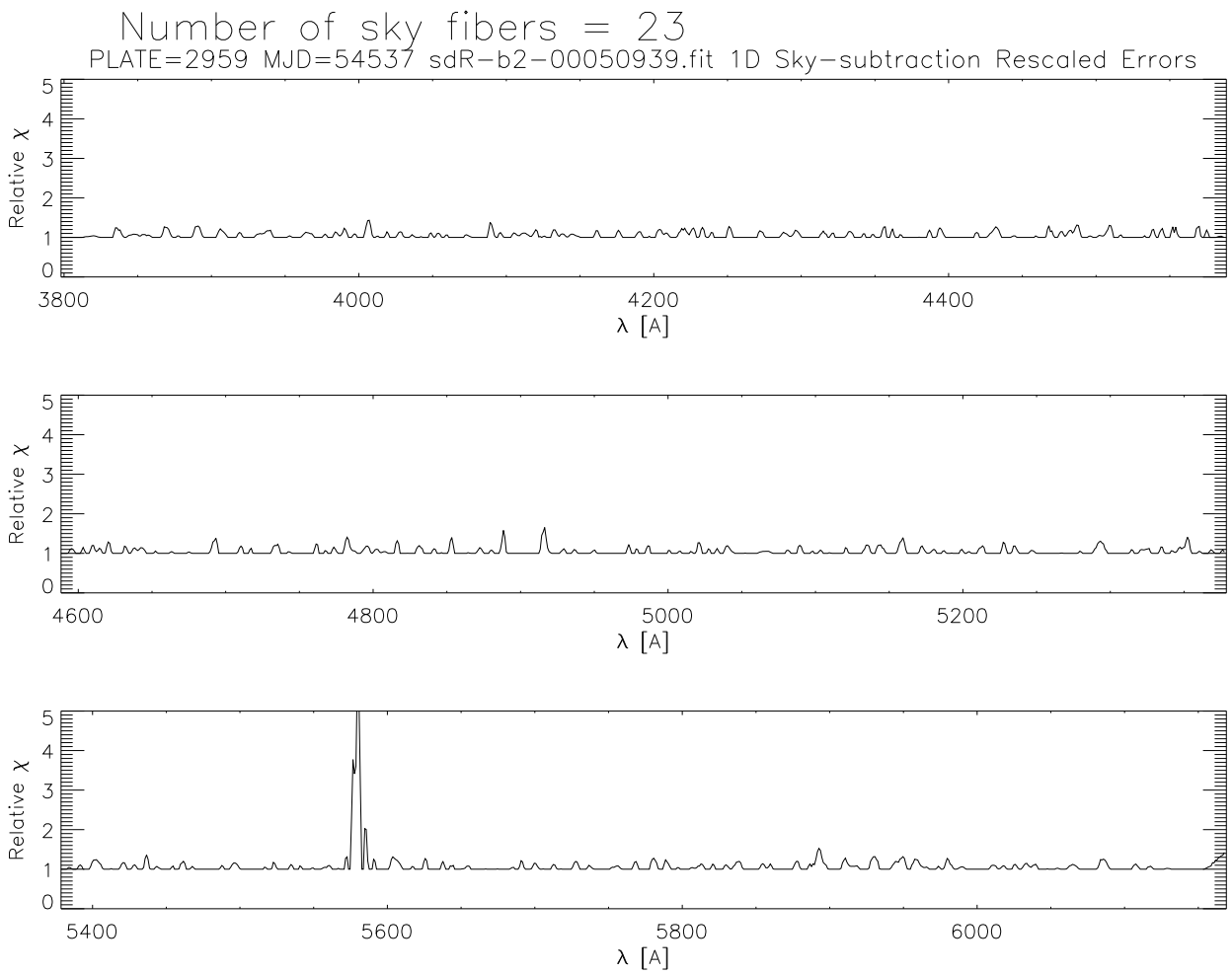

PLATE=2959 MJD=54537 Smooth superflat for sdR-b2-00050939.fit
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
4000
4500
5000
5500
6000
Wavelength (Å)

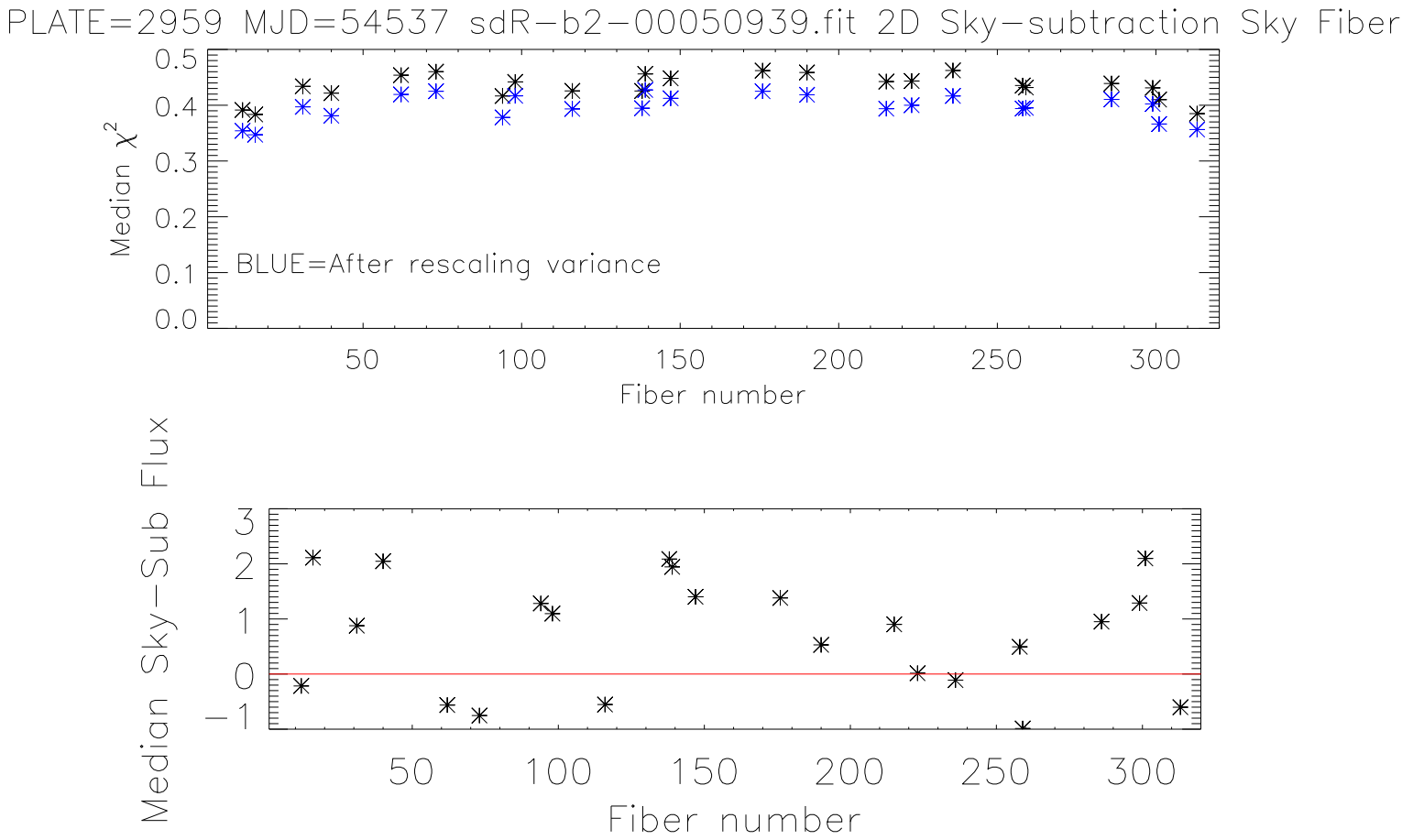
es= −0.0000

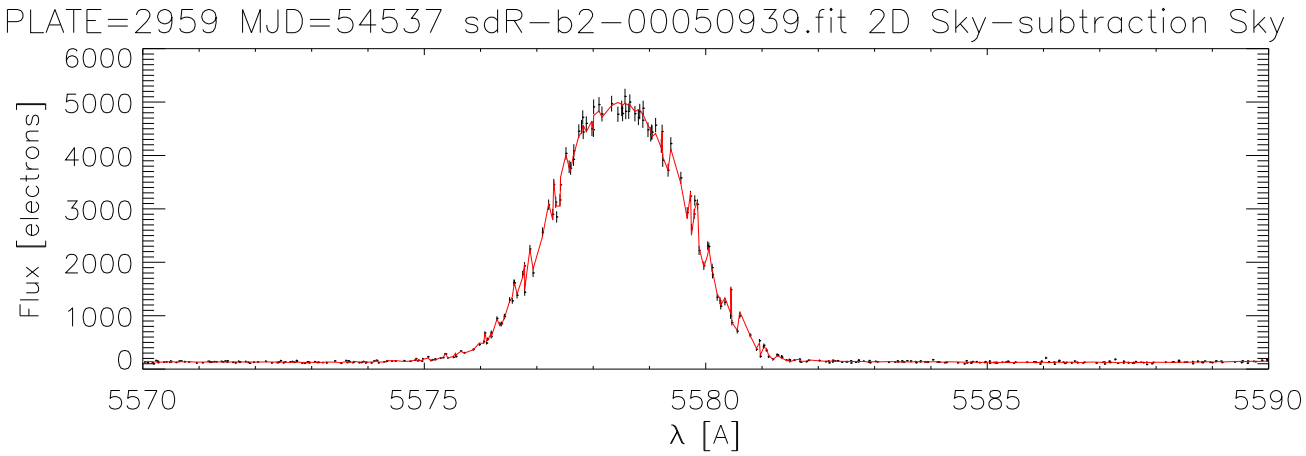

PLATE=2959 MJD=54537 sdR-b2-00050939.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

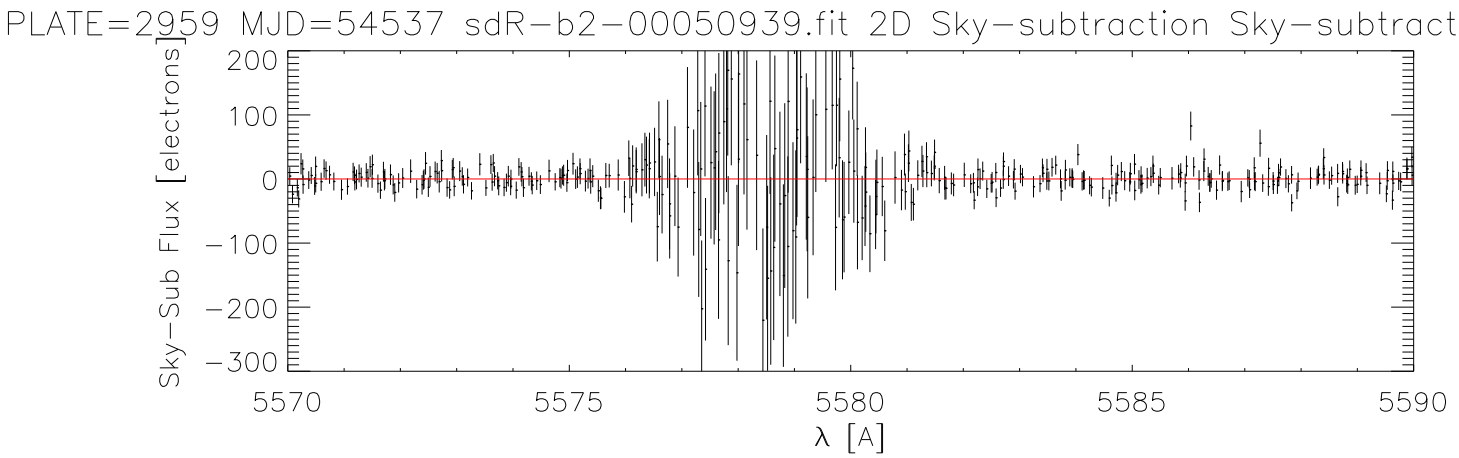

PLATE=2959 MJD=54537 sdR-b2-00050939.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

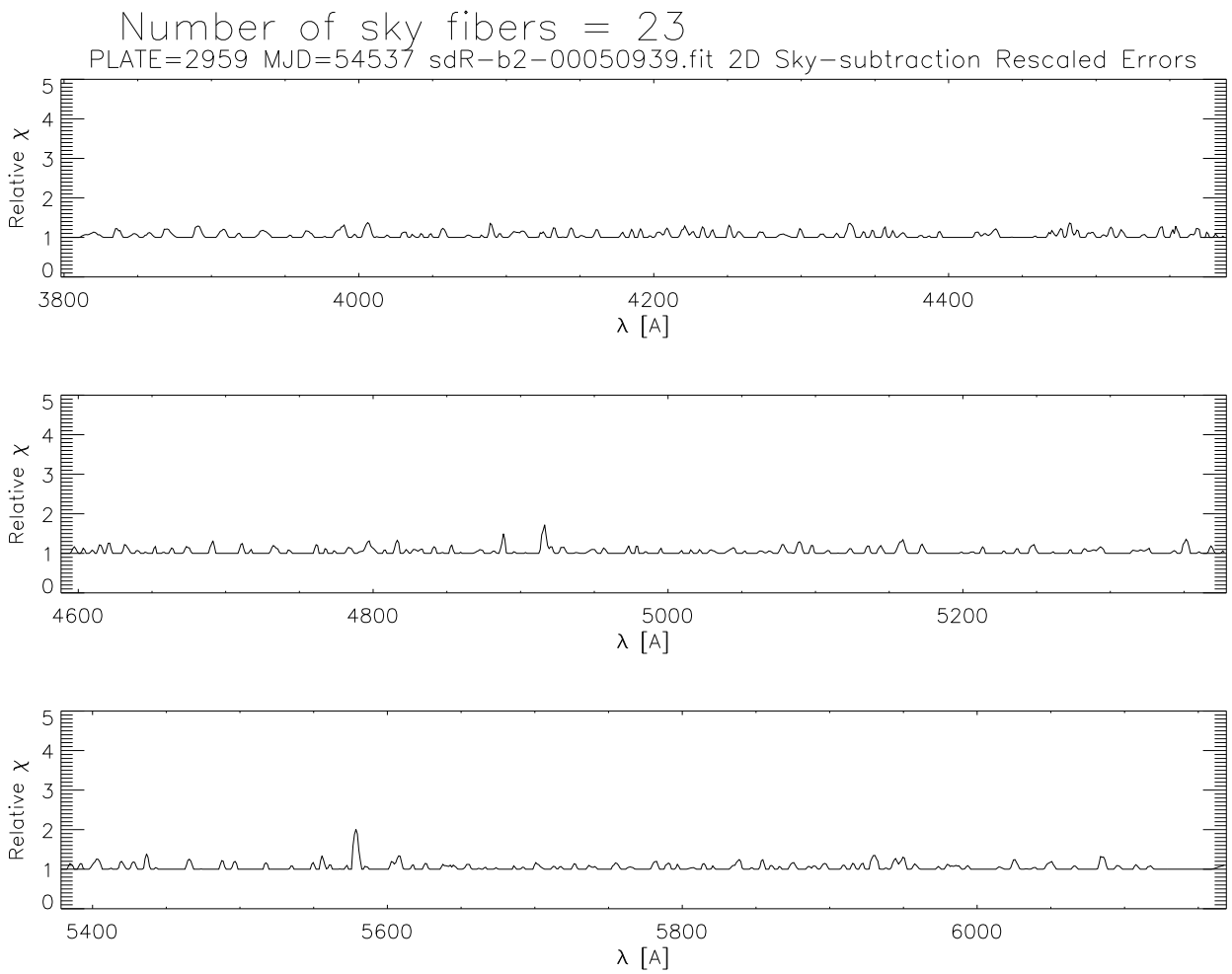

PLATE=2959 MJD=54537 sdR-b2-00050939.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
500
0
-500
-1000
5570
5575
5580
5585
5590
λ [A]

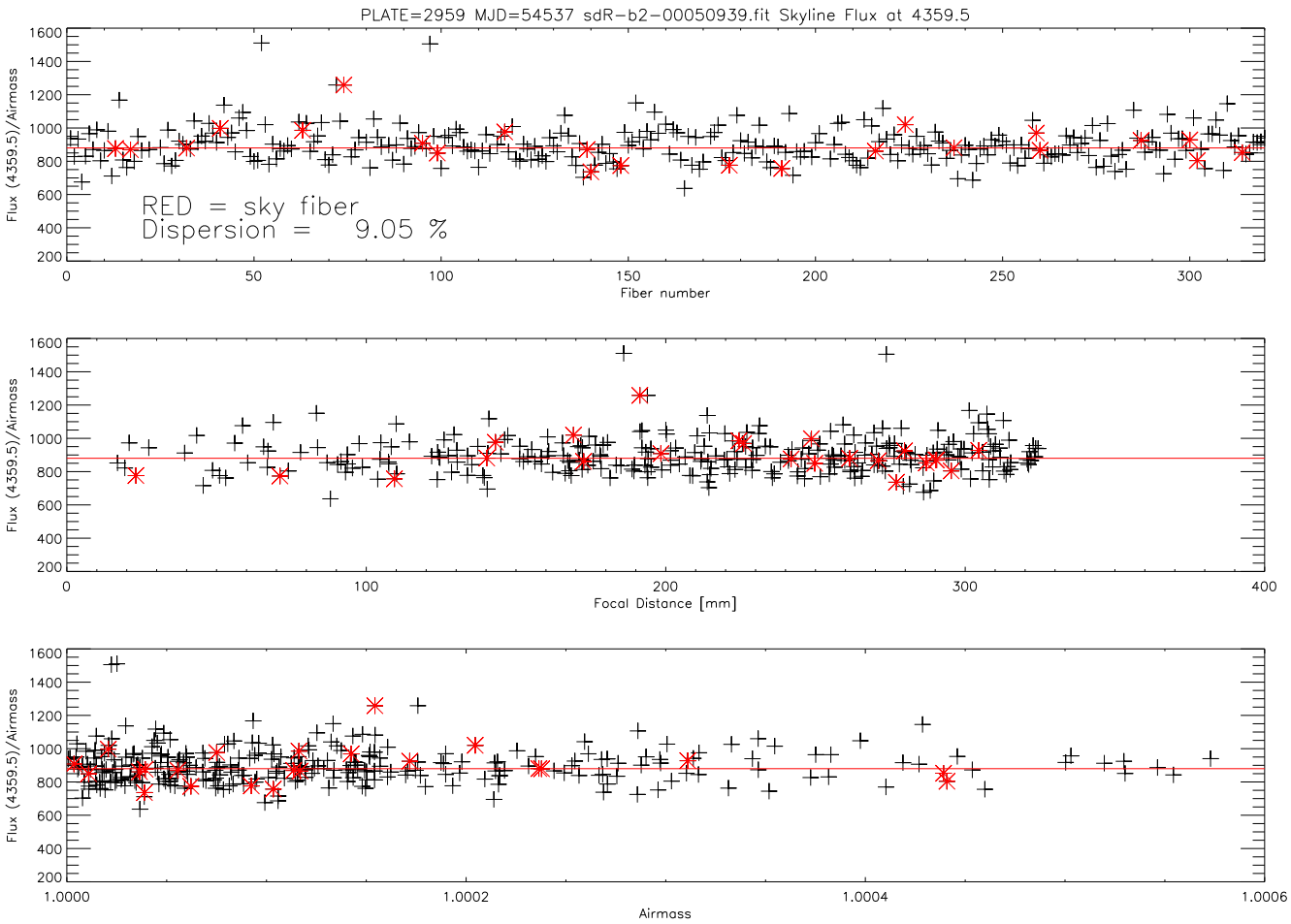

Number of sky fibers = 23
PLATE=2959 MJD=54537 sdR-b2-00050939.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

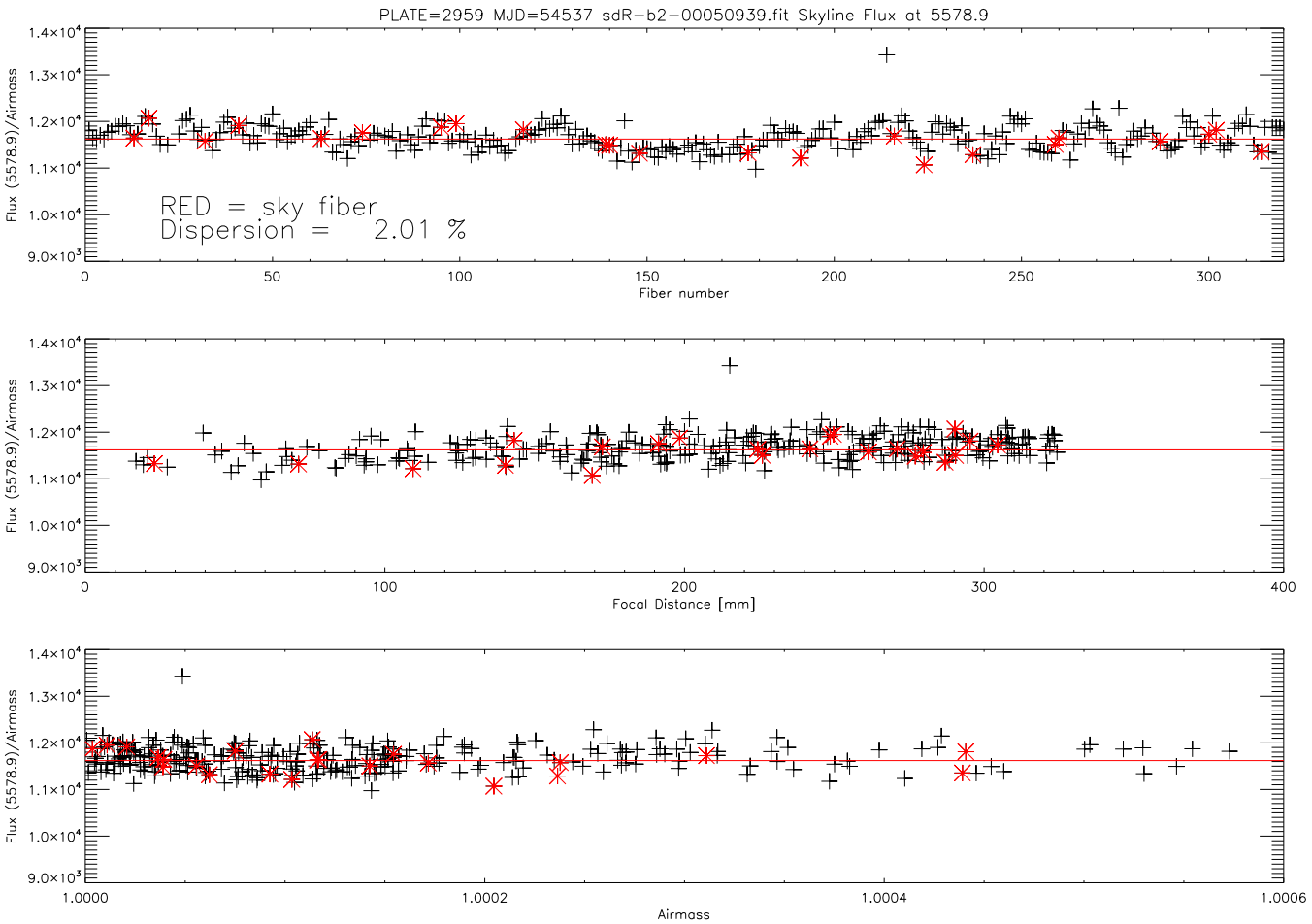

PLATE=2959 MJD=54537 sdR-b2-00050939.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
−1
0
1
2
3
50
100
150
200
250
300
Fiber number

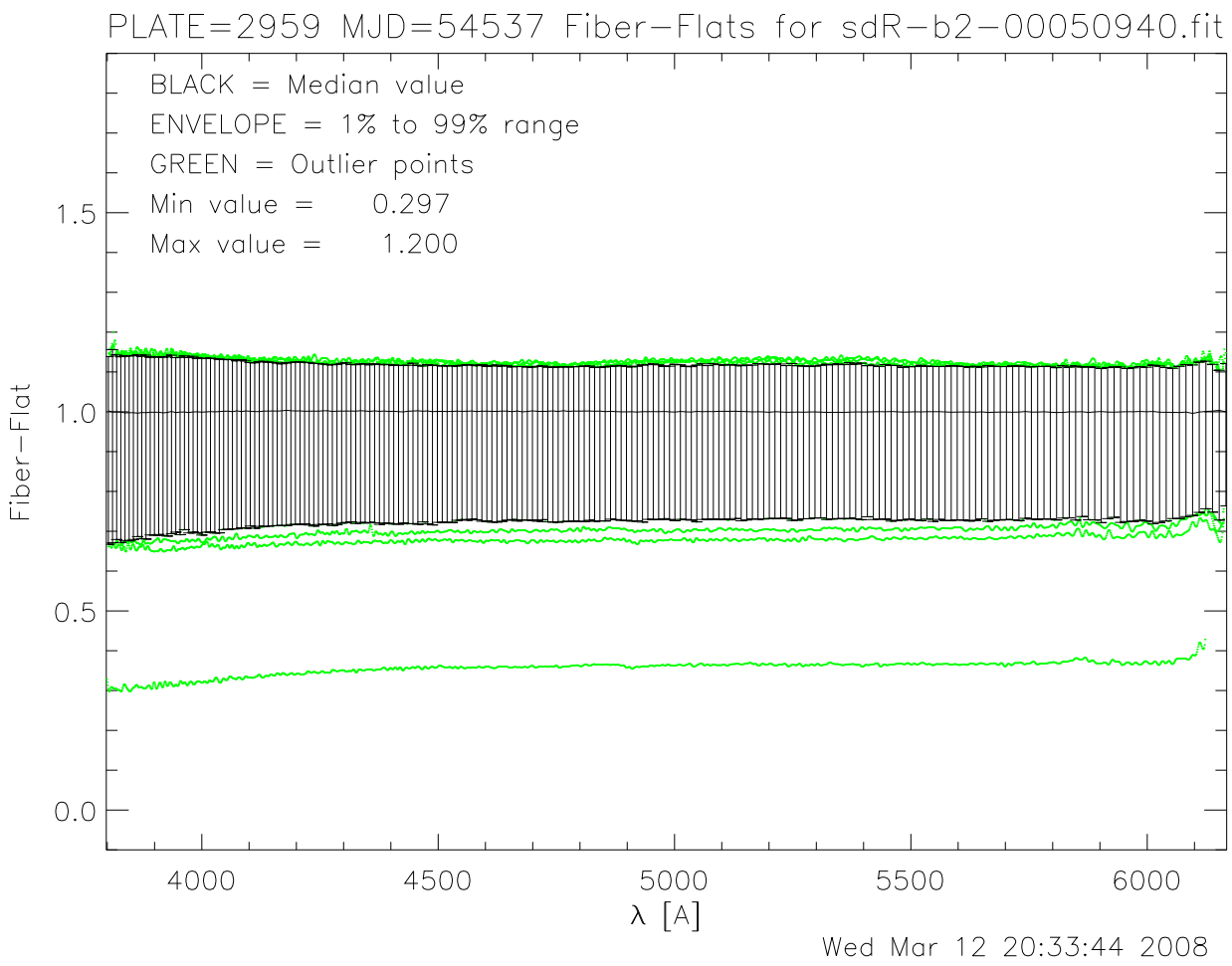

PLATE=2959 MJD=54537 sdR-b2-00050939.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

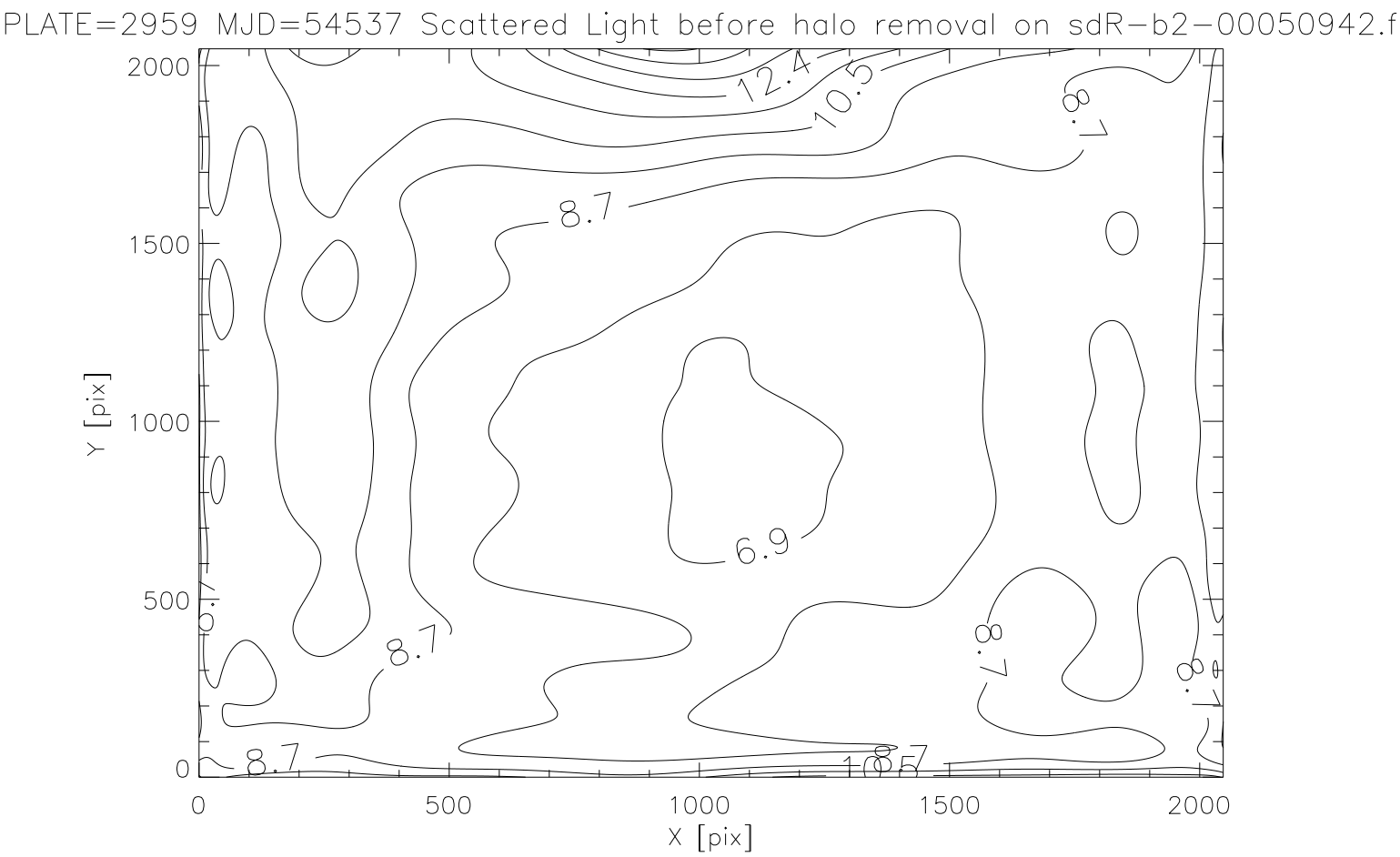

PLATE=2959 MJD=54537 sdR-b2-00050939.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

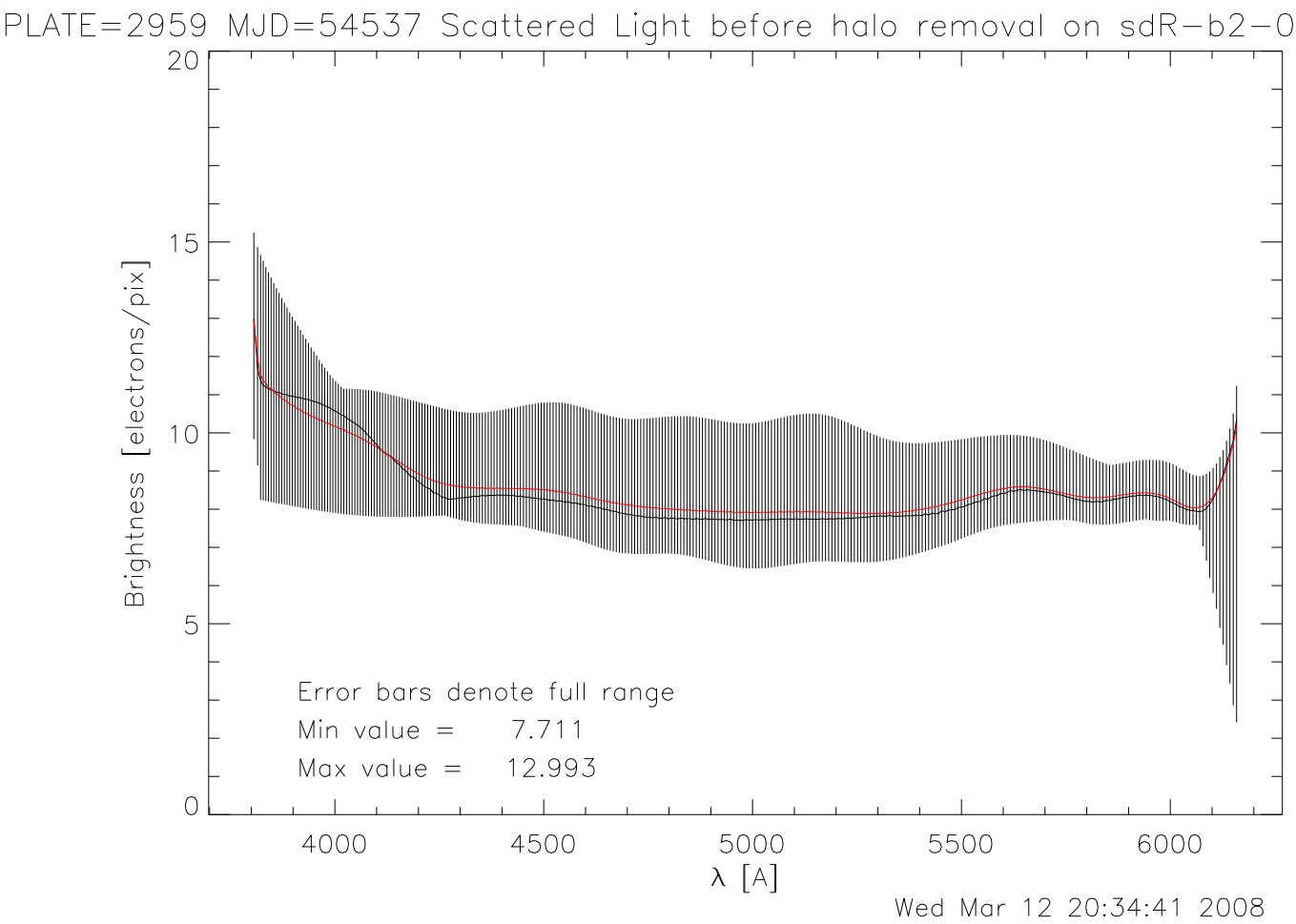

Number of sky fibers = 23
PLATE=2959 MJD=54537 sdR-b2-00050939.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

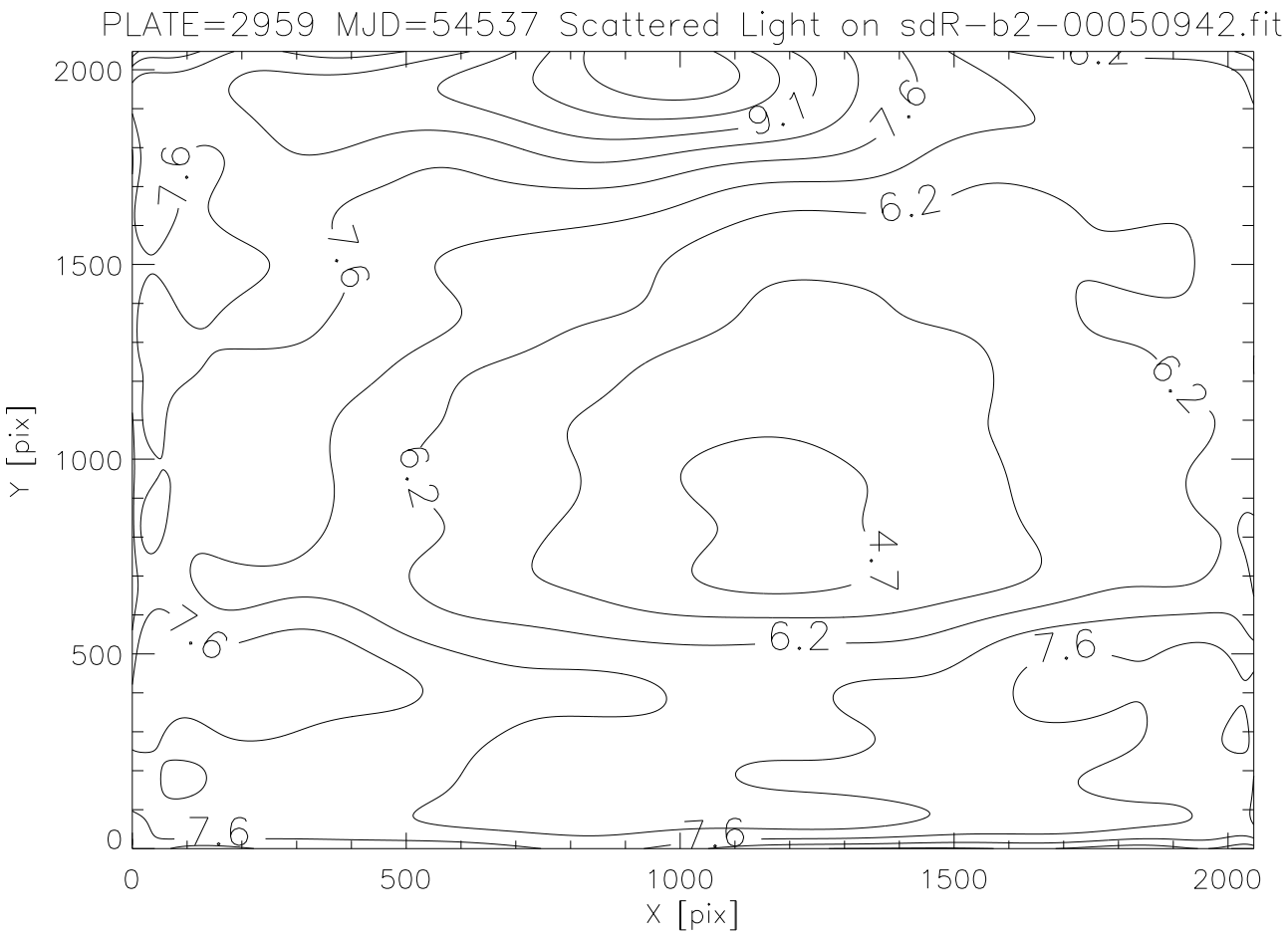

PLATE=2959 MJD=54537 sdR-b2-00050939.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 9.05 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

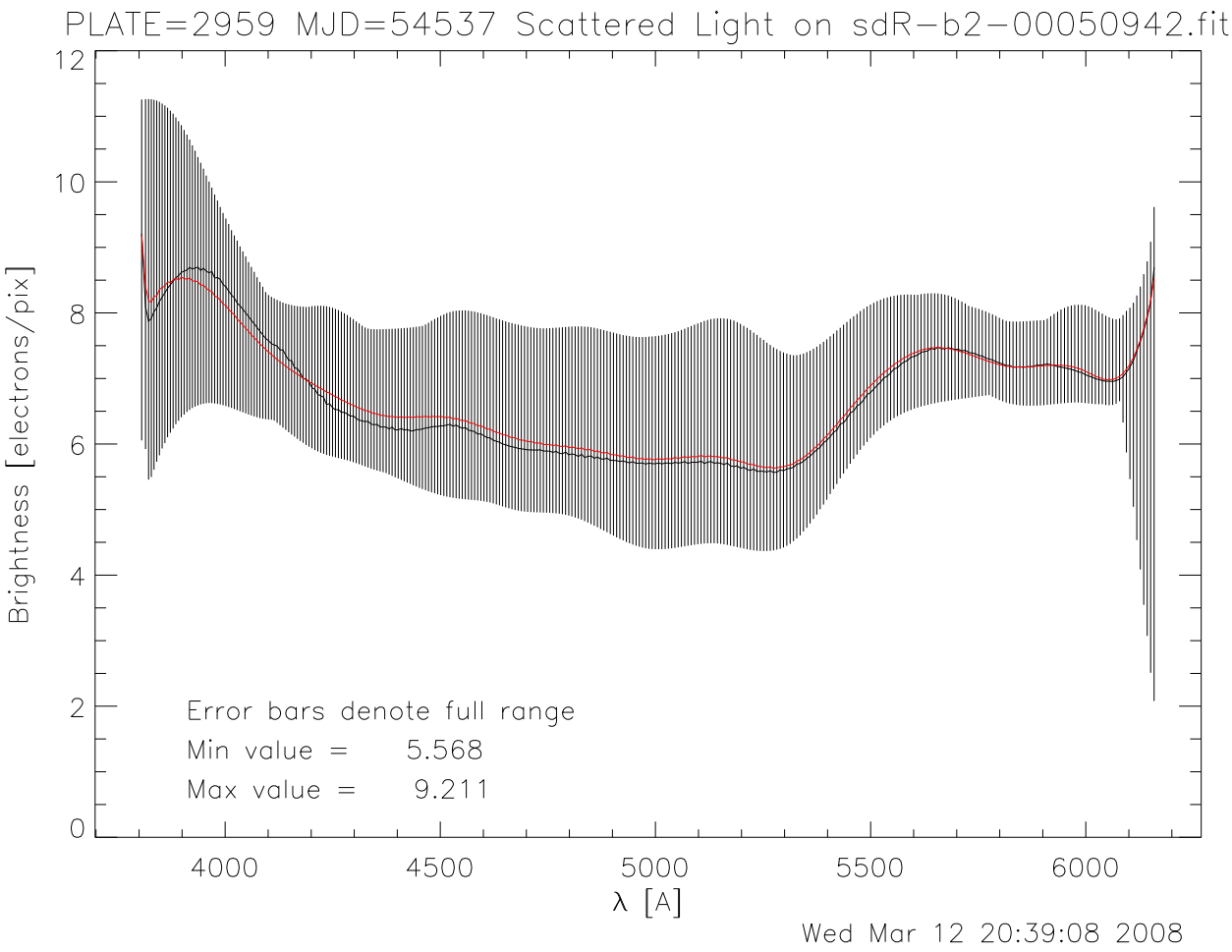

PLATE=2959 MJD=54537 sdR-b2-00050939.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.01 %
Fiber number
Focal Distance [mm]
Airmass

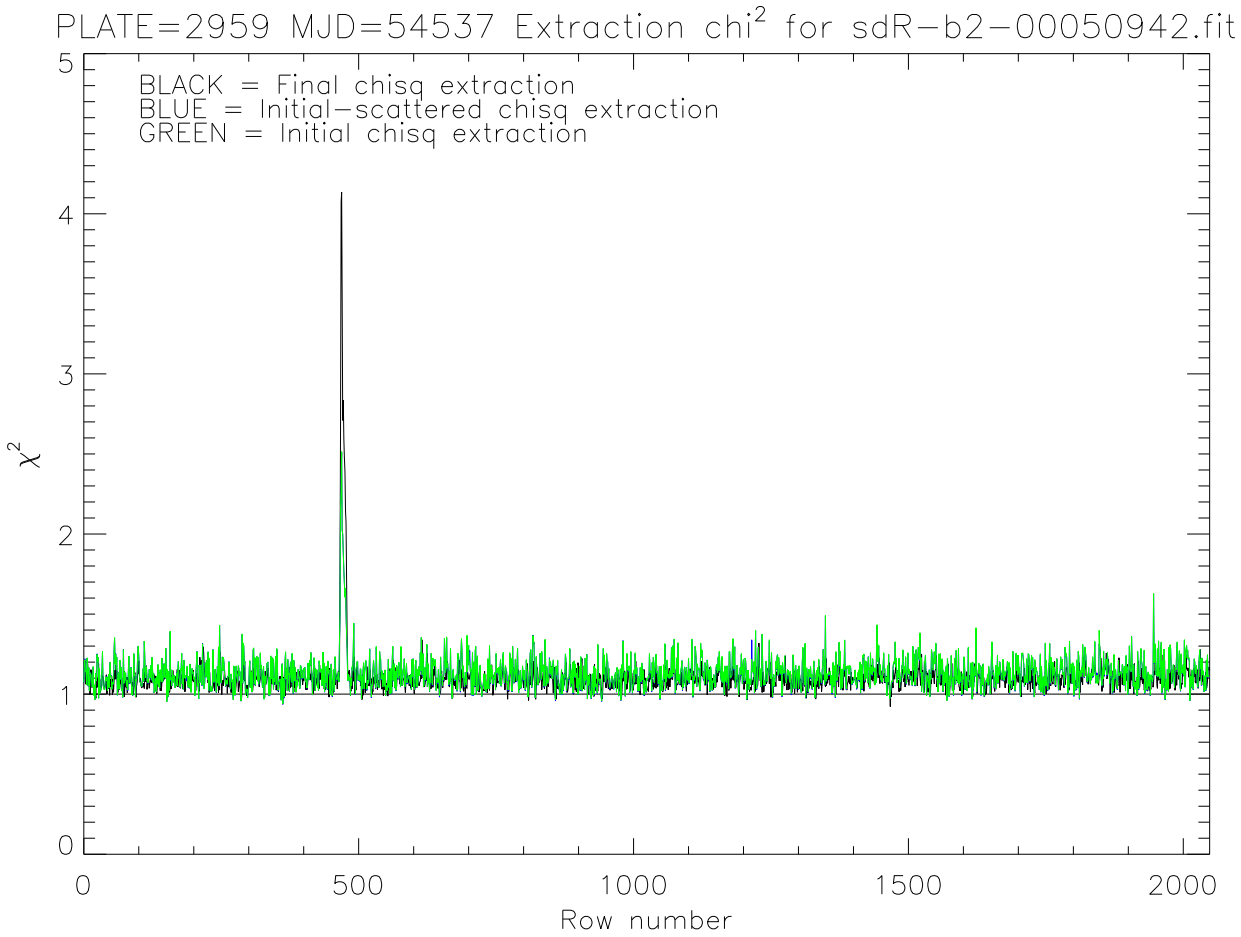

PLATE=2959 MJD=54537 Fiber-Flats for sdR-b2-00050940.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.297
Max value = 1.200
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 20:33:44 2008

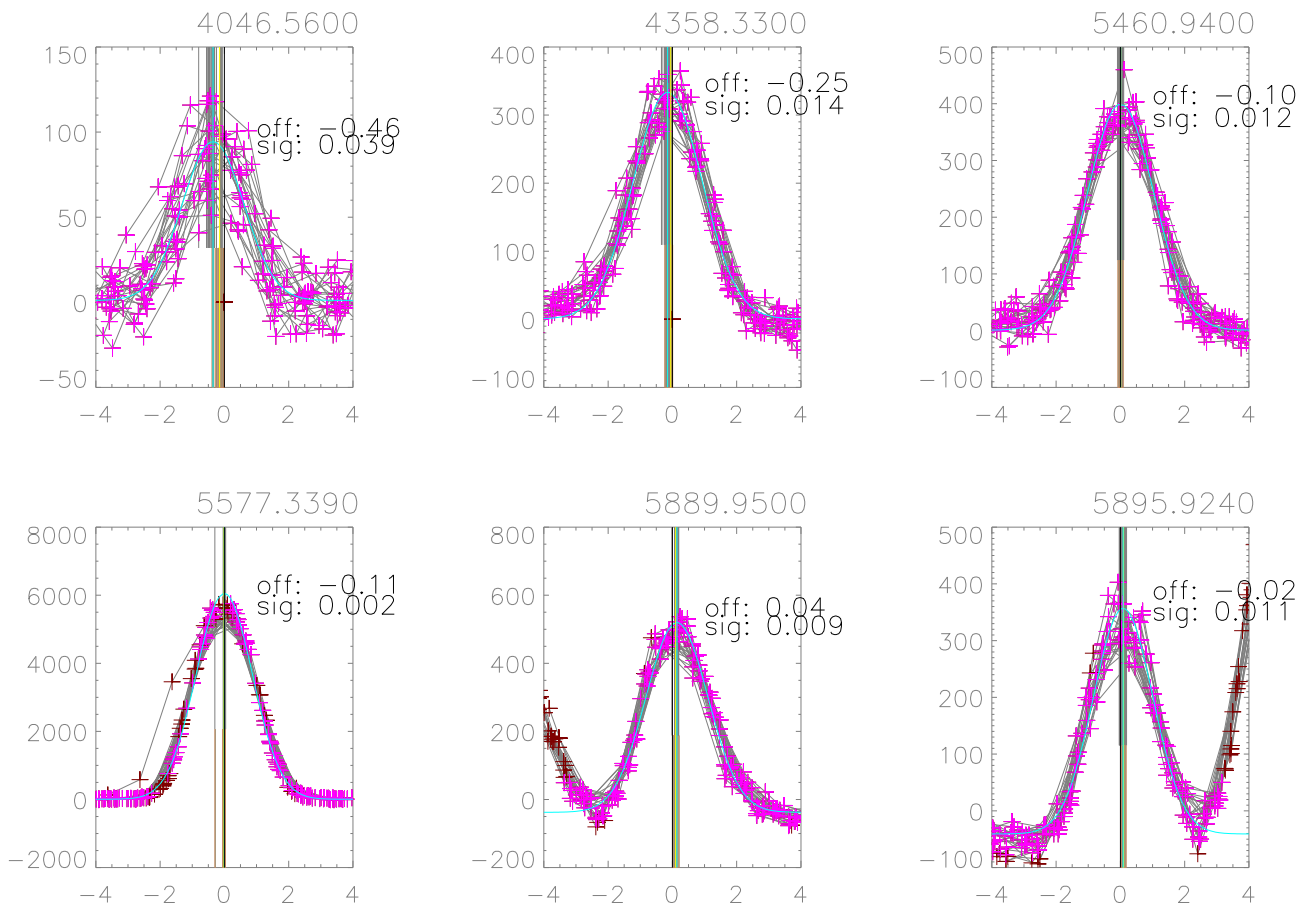

PLATE=2959 MJD=54537 Scattered Light before halo removal on sdR−b2−00050942.f
12.4
10.5
8.7
8.7
6.9
8.7
8.7
8.7
8.7
8.7
2000
1500
1000
500
0
0
500
1000
1500
2000
Y [pix]
X [pix]

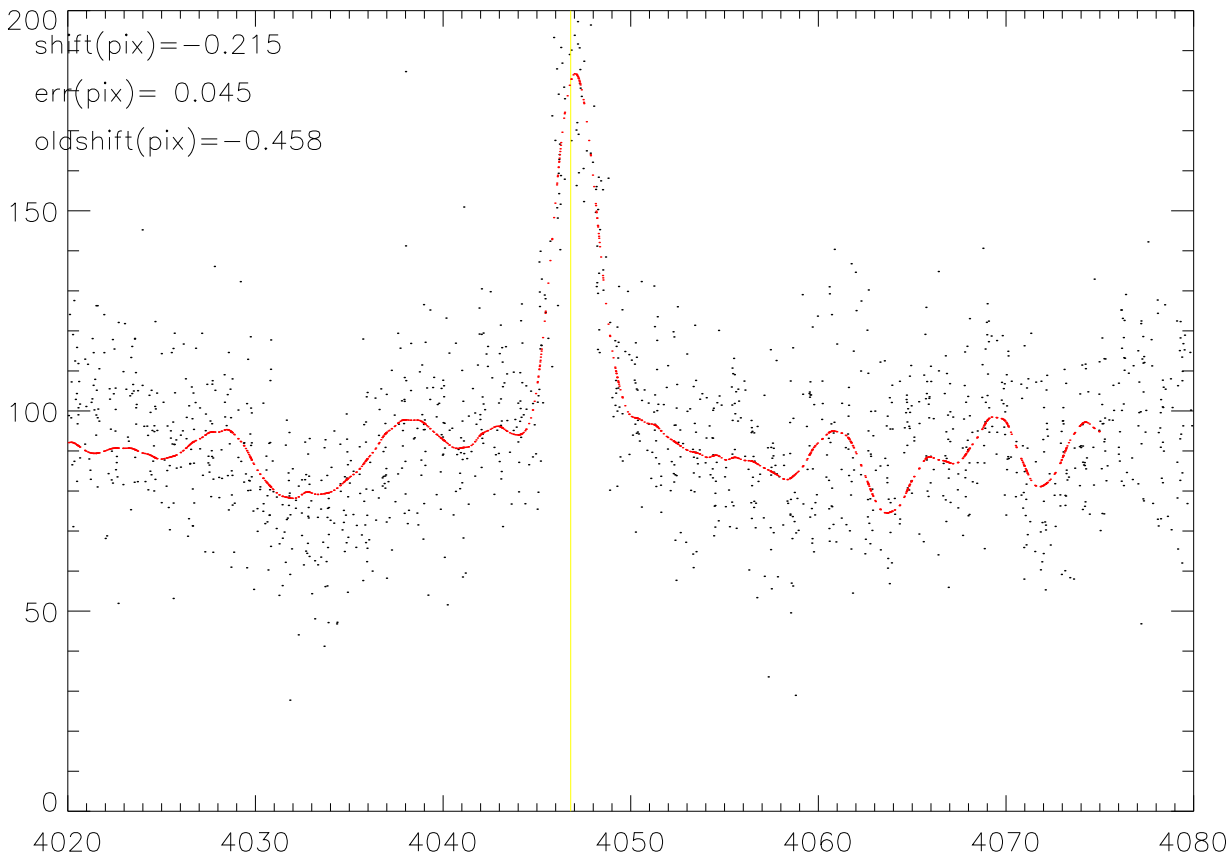

PLATE=2959 MJD=54537 Scattered Light before halo removal on sdR−b2−00050942.f
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 7.711
Max value = 12.993
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 20:34:41 2008

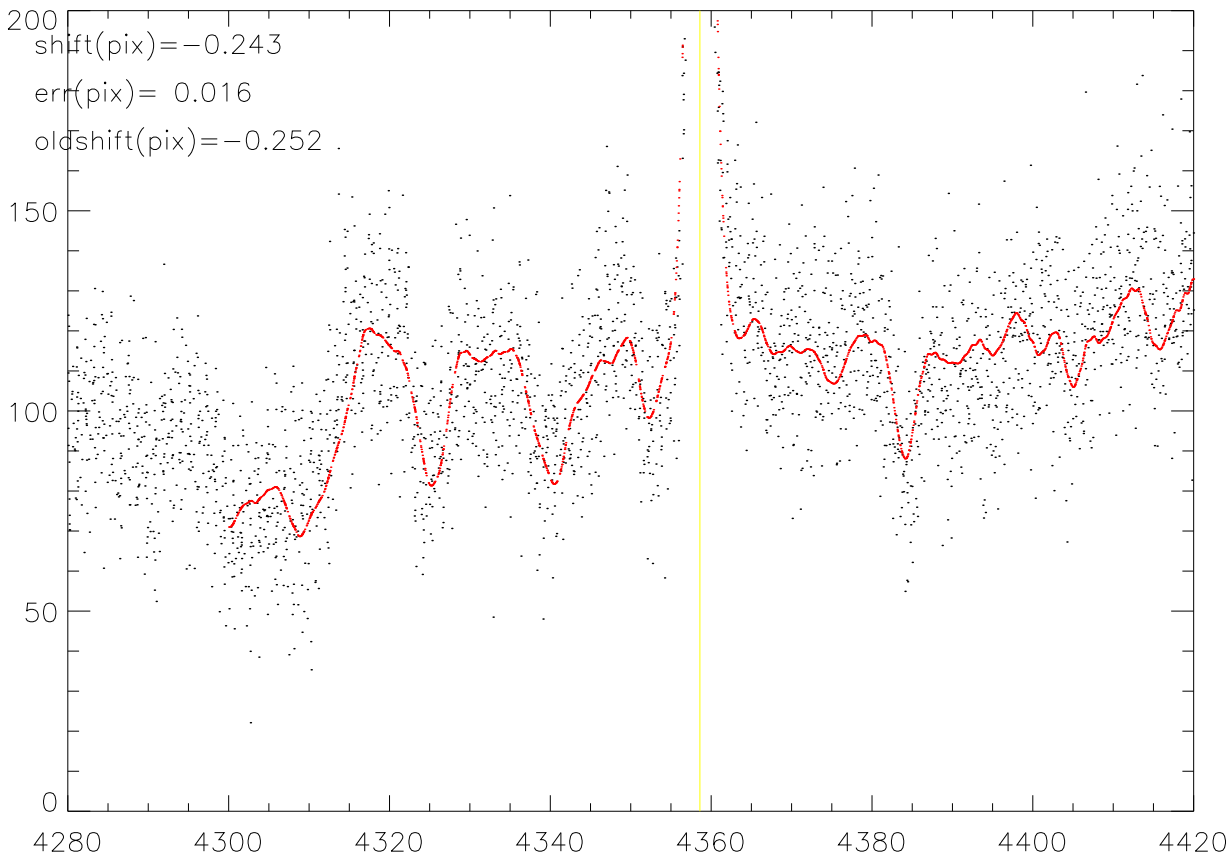

PLATE=2959 MJD=54537 Scattered Light on sdR-b2-00050942.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
9.1
7.6
6.2
4.7

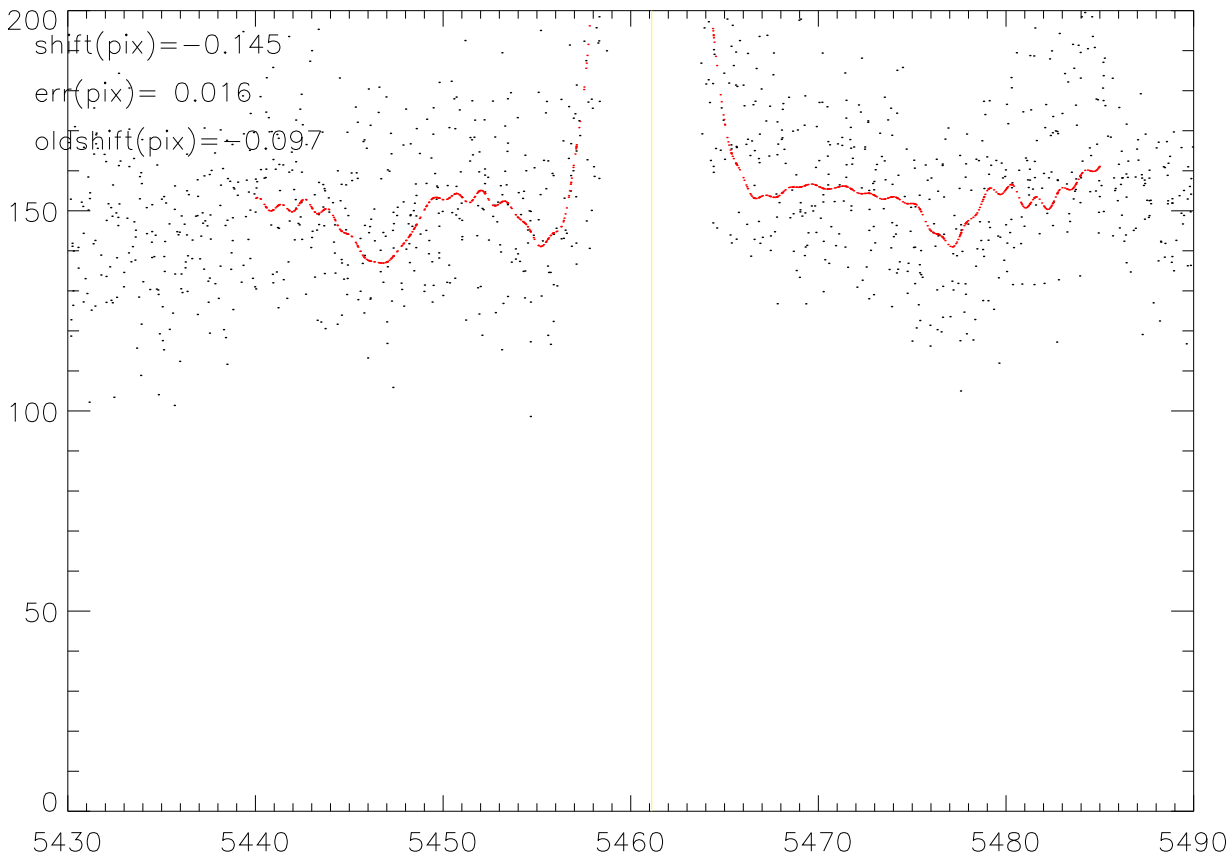

PLATE=2959 MJD=54537 Scattered Light on sdR-b2-00050942.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.568
Max value = 9.211
Wed Mar 12 20:39:08 2008

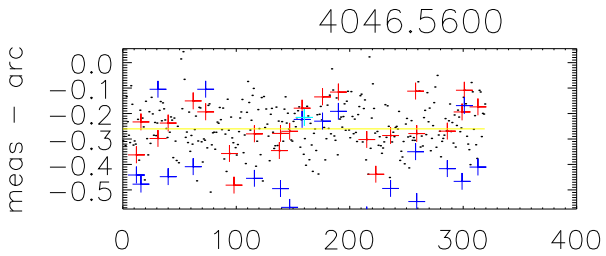

PLATE=2959 MJD=54537 Extraction chi^2 for sdR-b2-00050942.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

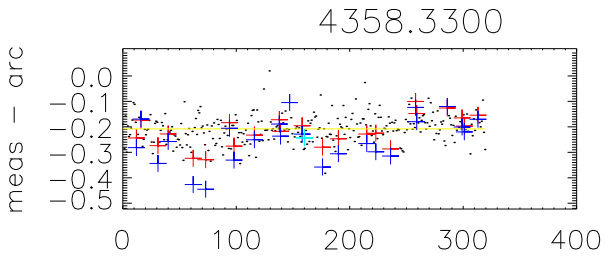

4046.5600
off: −0.46
sig: 0.039
4358.3300
off: −0.25
sig: 0.014
5460.9400
off: −0.10
sig: 0.012
5577.3390
off: −0.11
sig: 0.002
5889.9500
off: 0.04
sig: 0.009
5895.9240
off: −0.02
sig: 0.011

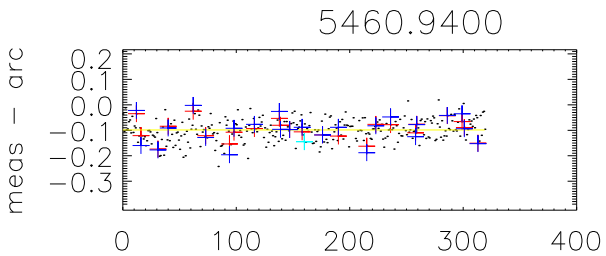

shift(pix)=−0.215
err(pix)= 0.045
oldshift(pix)=−0.458
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

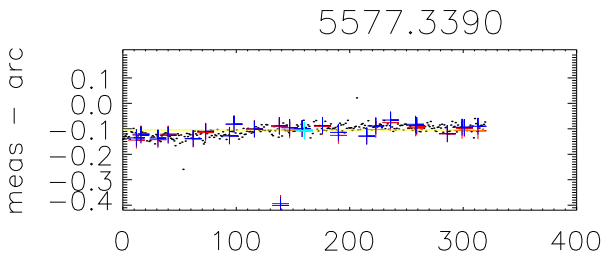

shift(pix)=−0.243
err(pix)= 0.016
oldshift(pix)=−0.252
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

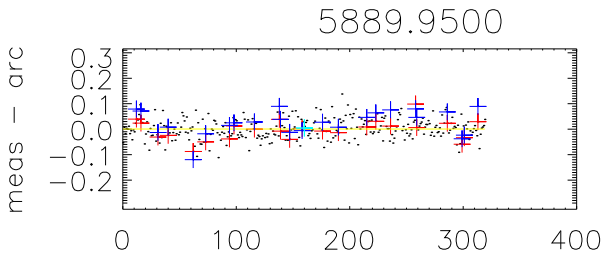

shift(pix)=−0.145
err(pix)= 0.016
oldshift(pix)=−0.097
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

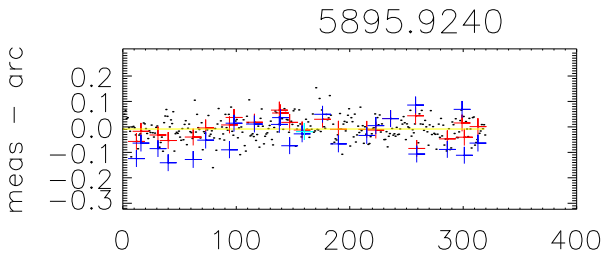

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

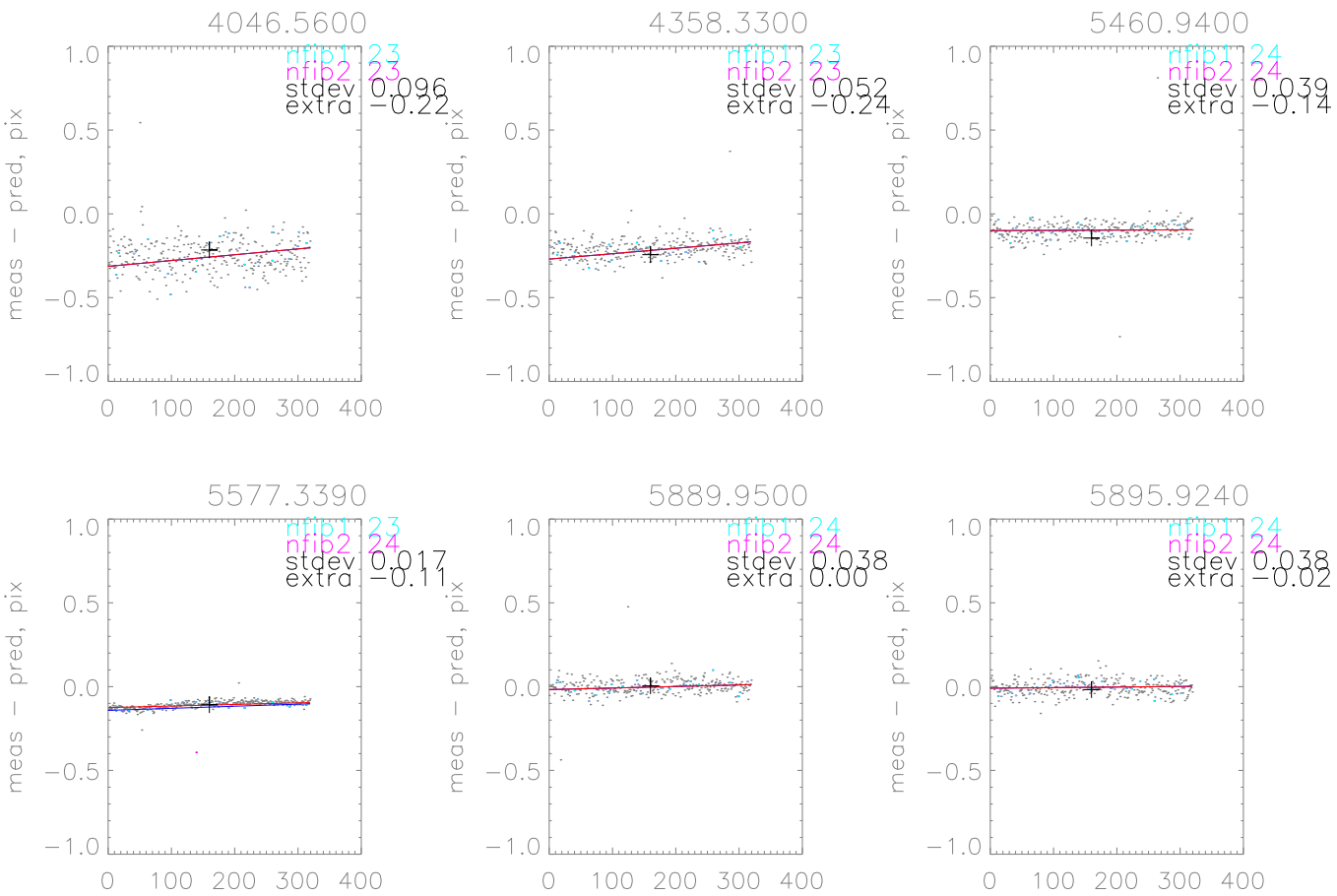

4358.3300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

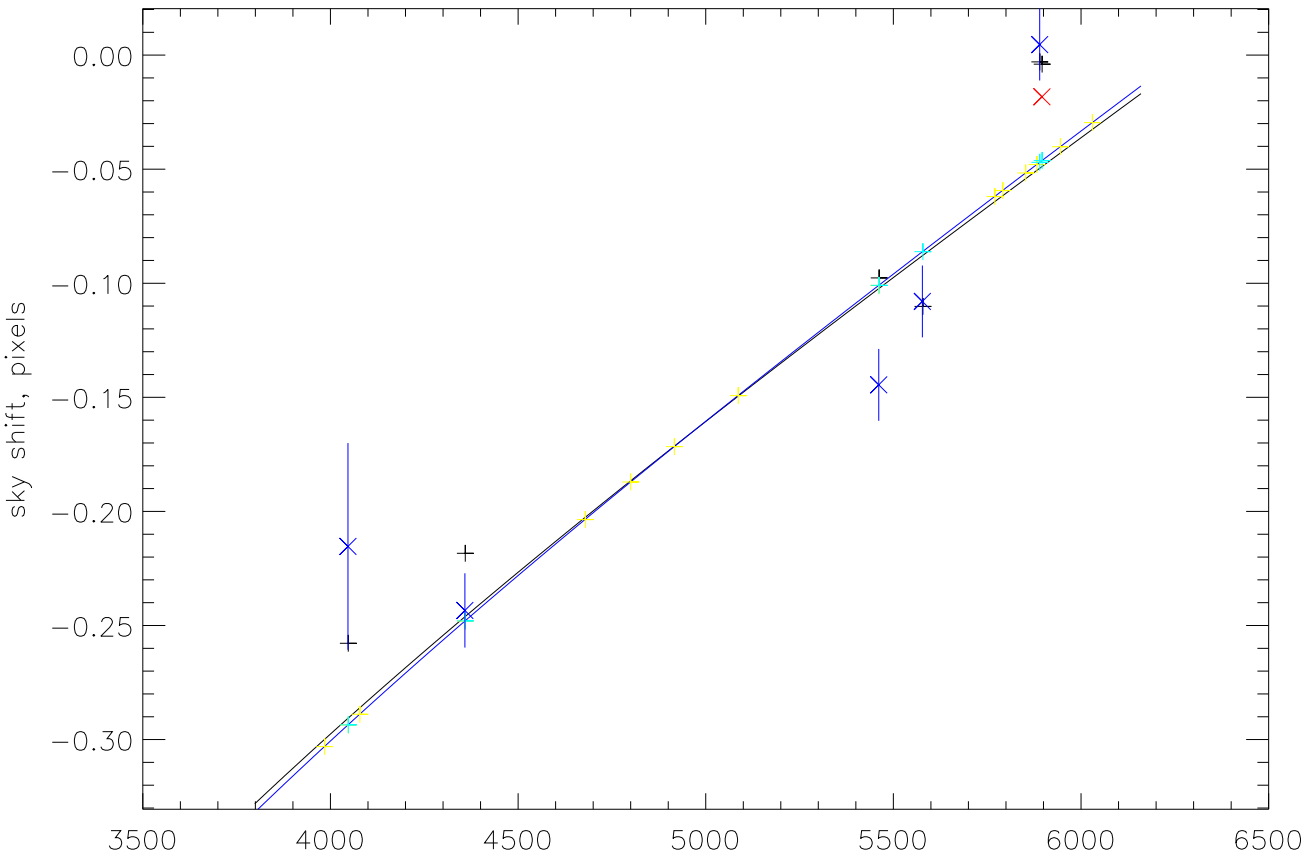

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

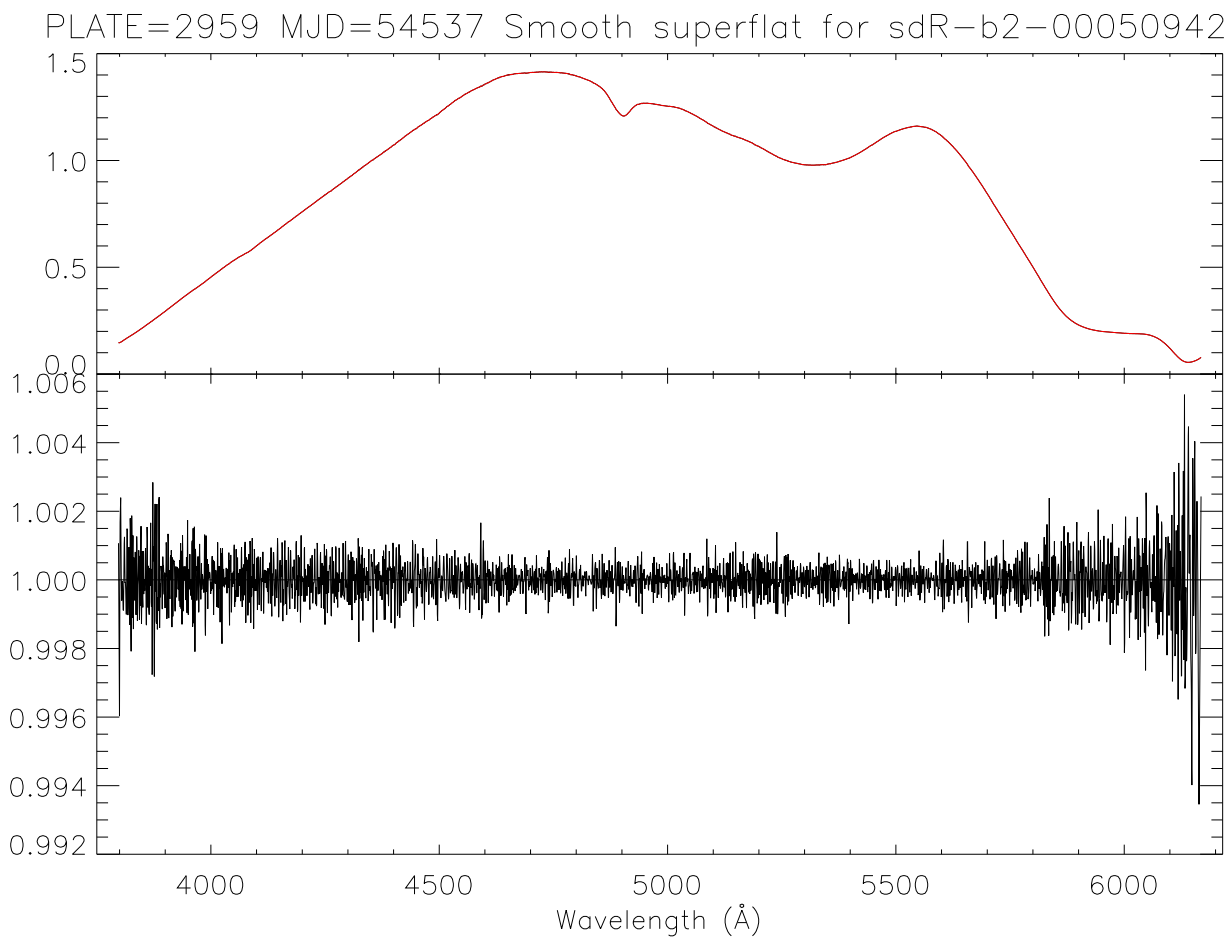

5889.9500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

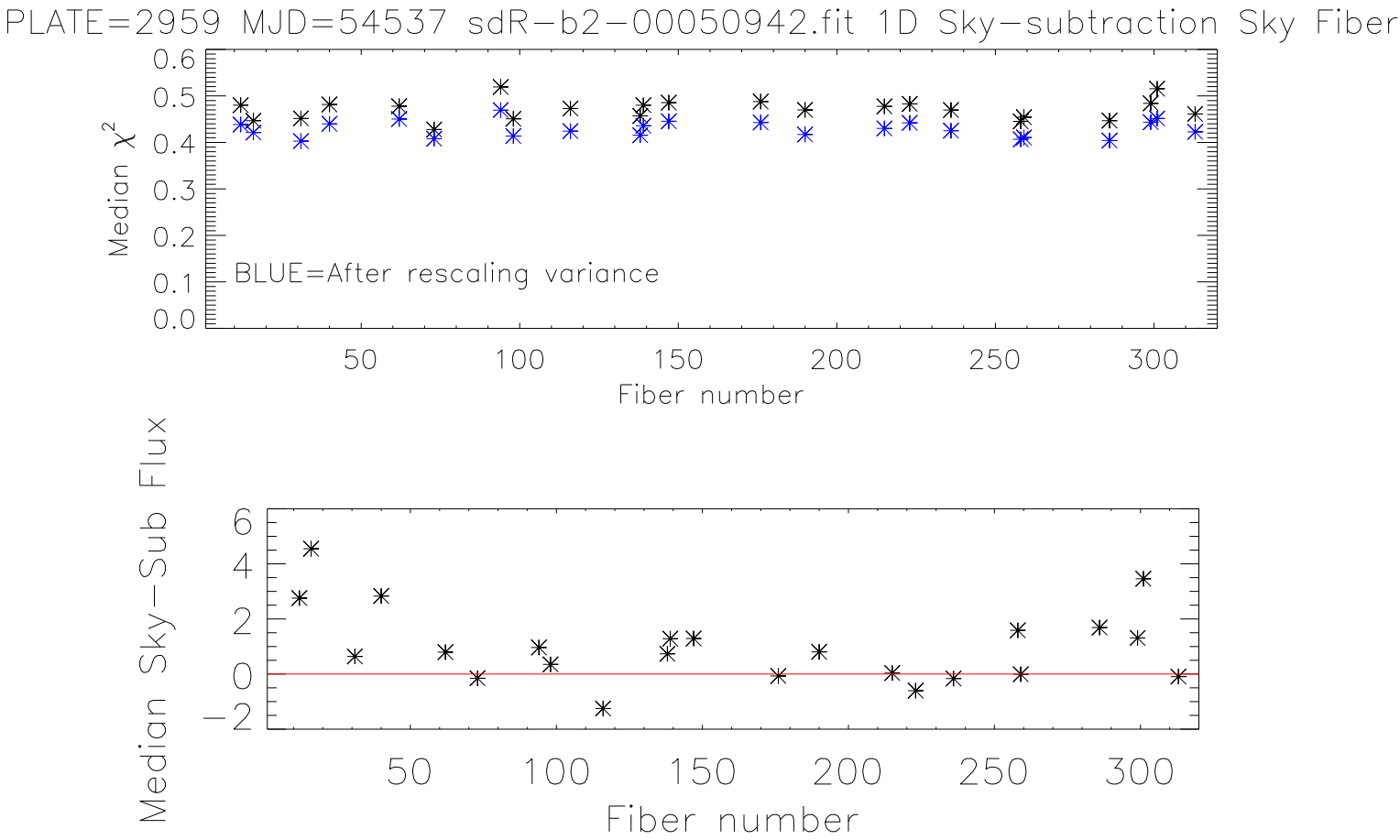

5895.9240
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

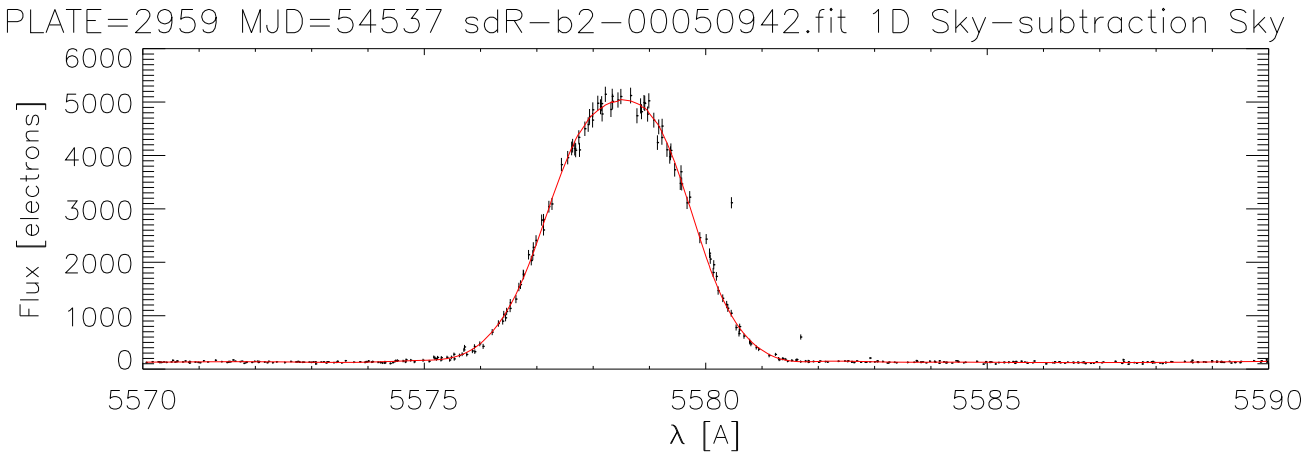

4046.5600
nfib1 23
nfib2 23
stdev 0.096
extra −0.22
4358.3300
nfib1 23
nfib2 23
stdev 0.052
extra −0.24
5460.9400
nfib1 24
nfib2 24
stdev 0.039
extra −0.14
5577.3390
nfib1 23
nfib2 24
stdev 0.017
extra −0.11
5889.9500
nfib1 24
nfib2 24
stdev 0.038
extra 0.00
5895.9240
nfib1 24
nfib2 24
stdev 0.038
extra −0.02
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

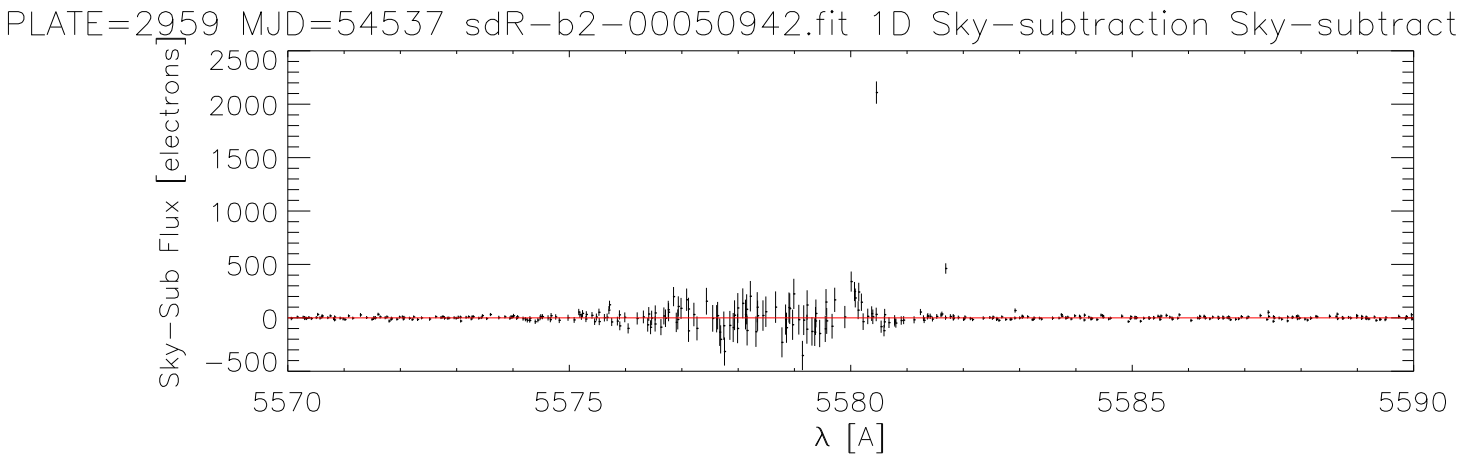

0.00
−0.05
−0.10
−0.15
−0.20
−0.25
−0.30
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

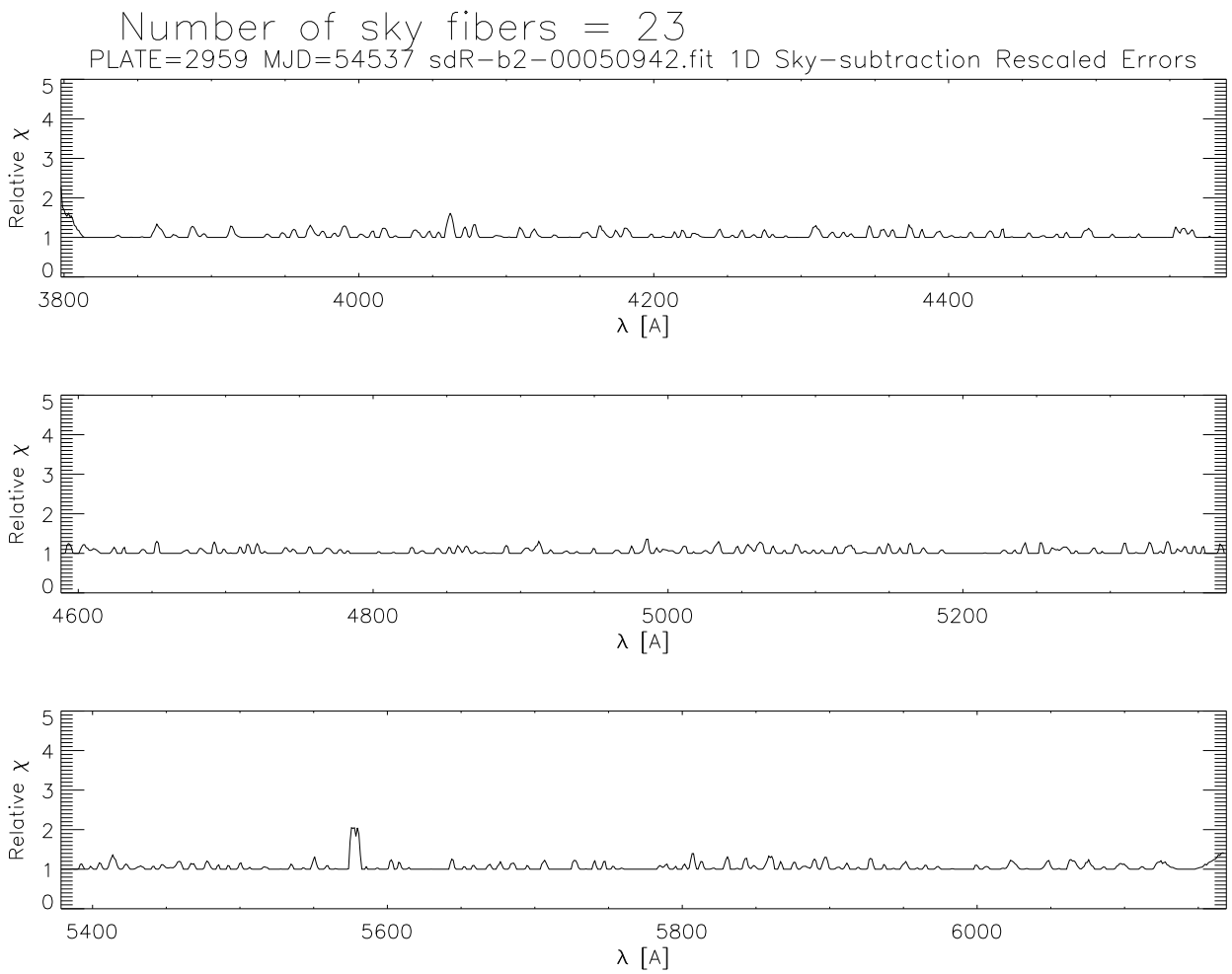
es= −0.0000

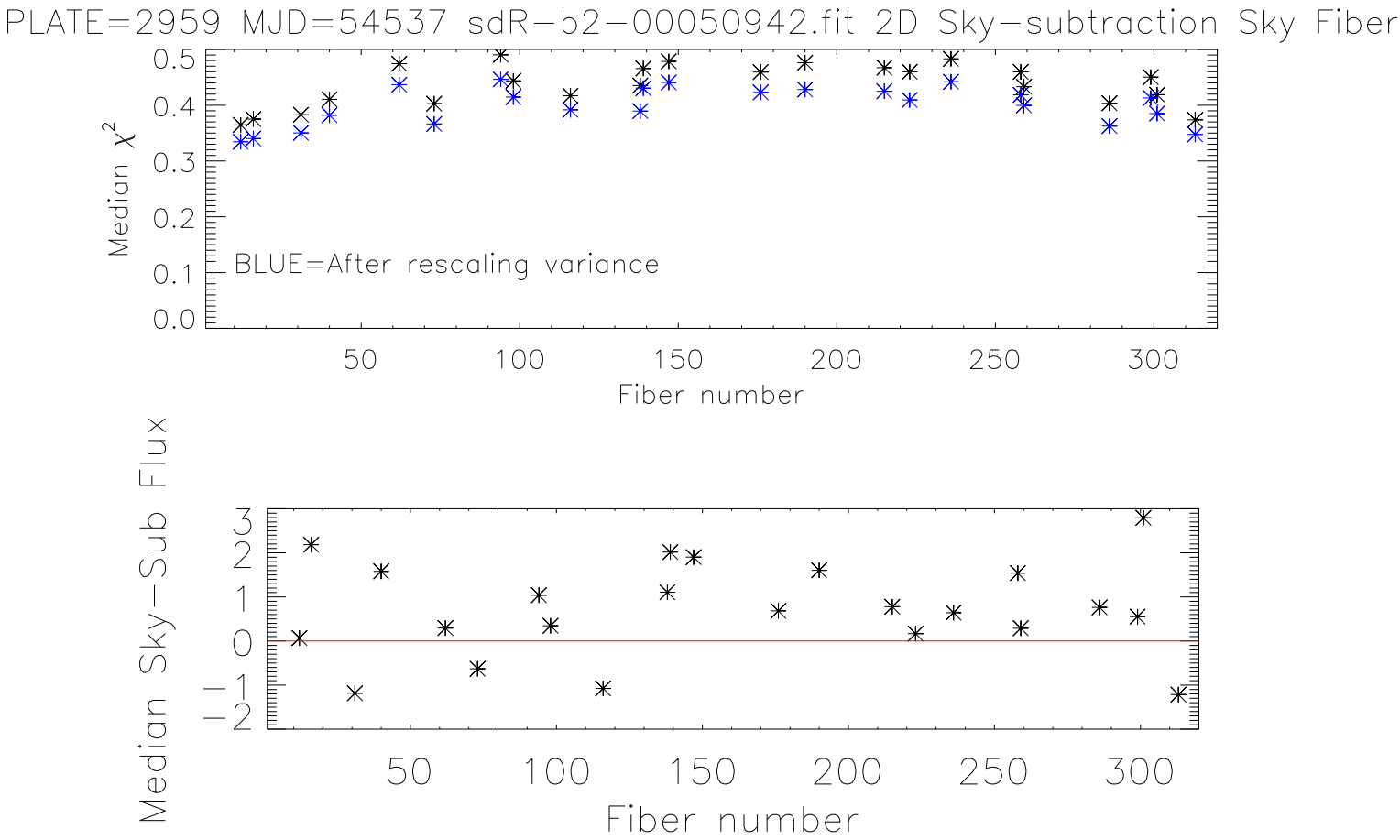

PLATE=2959 MJD=54537 Smooth superflat for sdR−b2−00050942.fit
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
4000
4500
5000
5500
6000
Wavelength (Å)

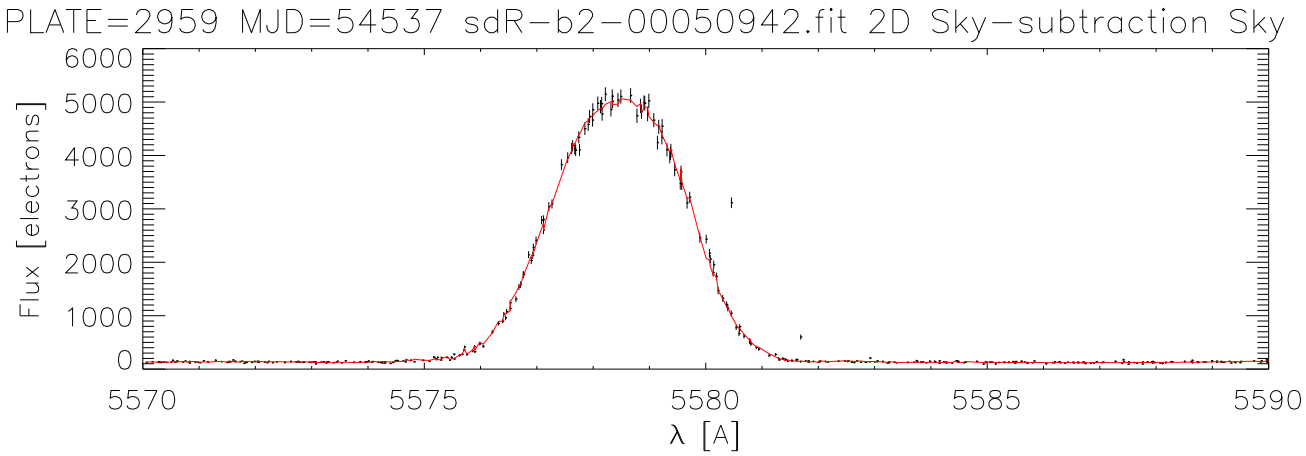

PLATE=2959 MJD=54537 sdR-b2-00050942.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

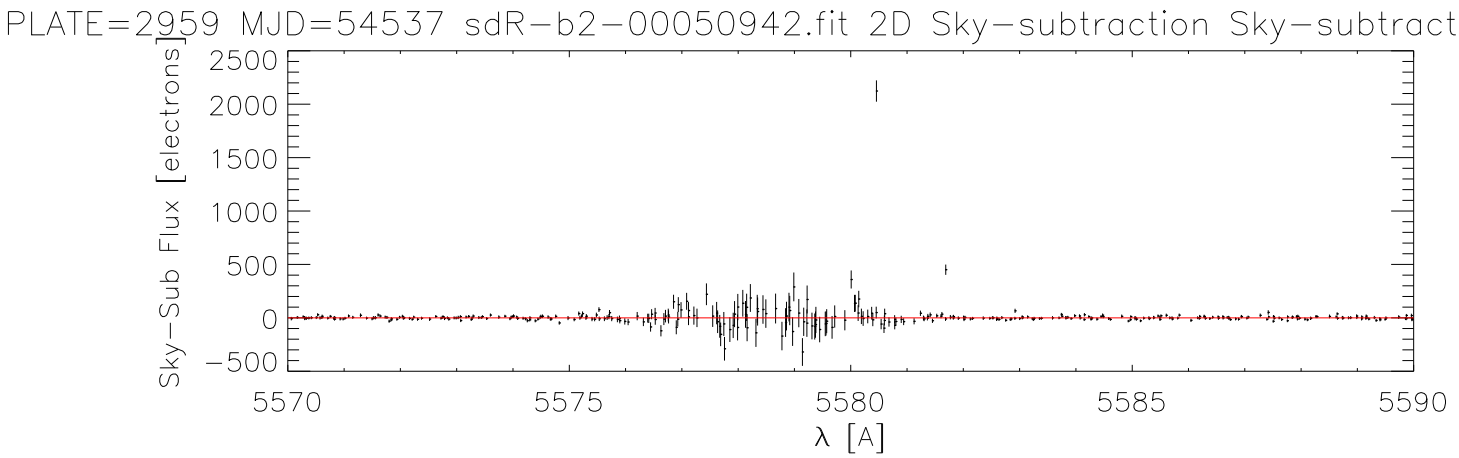

PLATE=2959 MJD=54537 sdR-b2-00050942.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

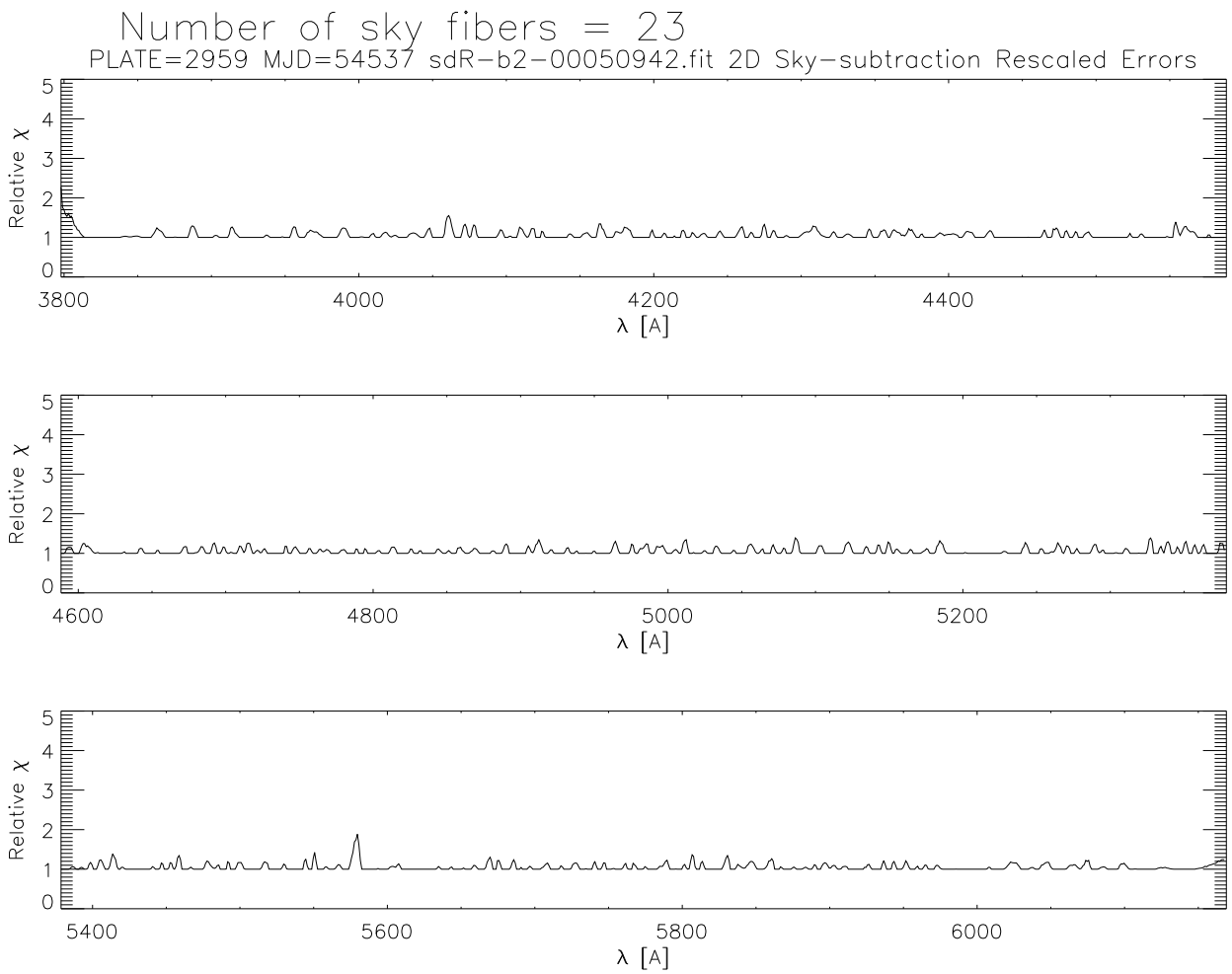

PLATE=2959 MJD=54537 sdR-b2-00050942.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2500
2000
1500
1000
500
0
-500
5570
5575
5580
5585
5590
λ [A]

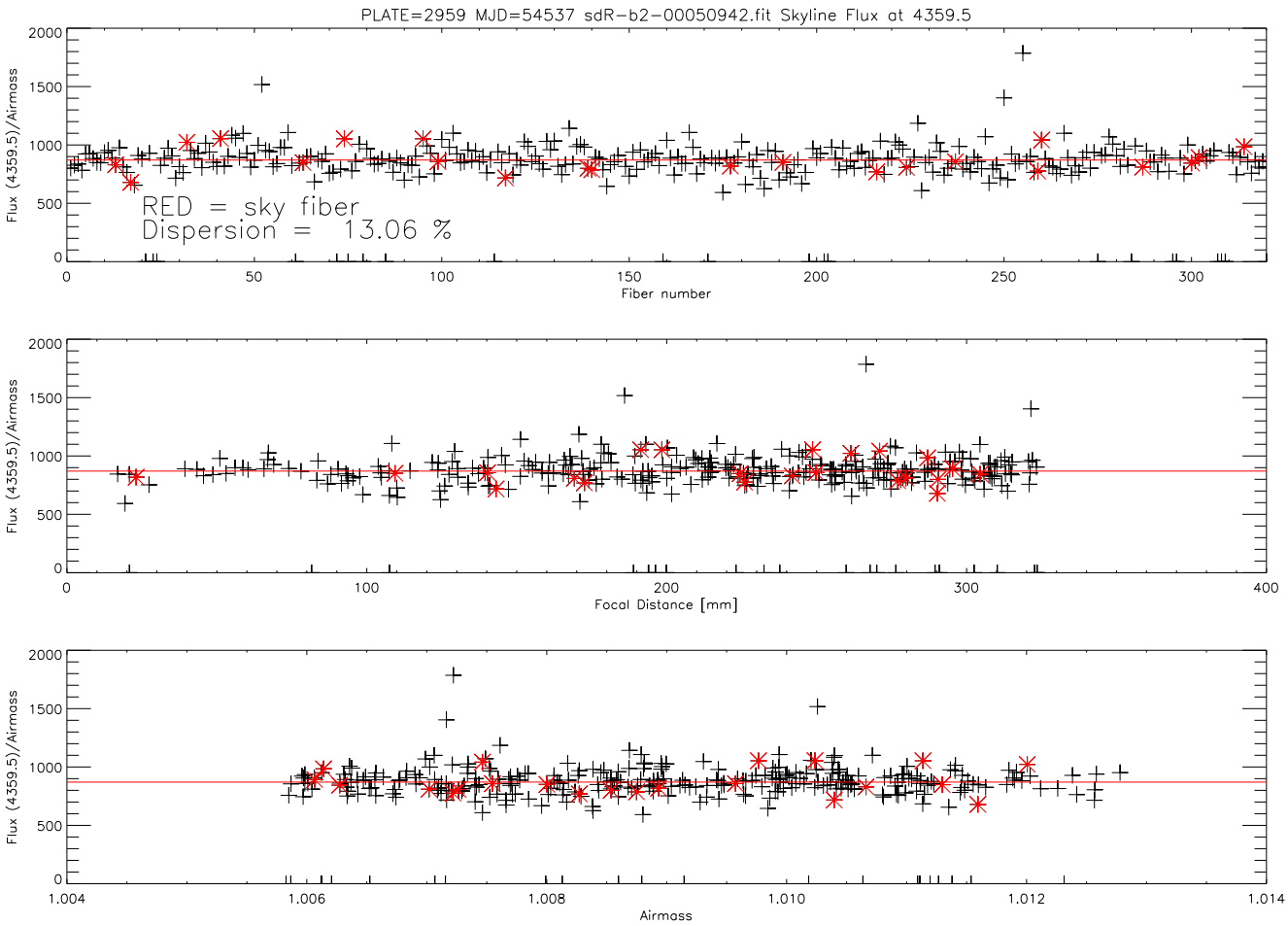

Number of sky fibers = 23
PLATE=2959 MJD=54537 sdR-b2-00050942.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

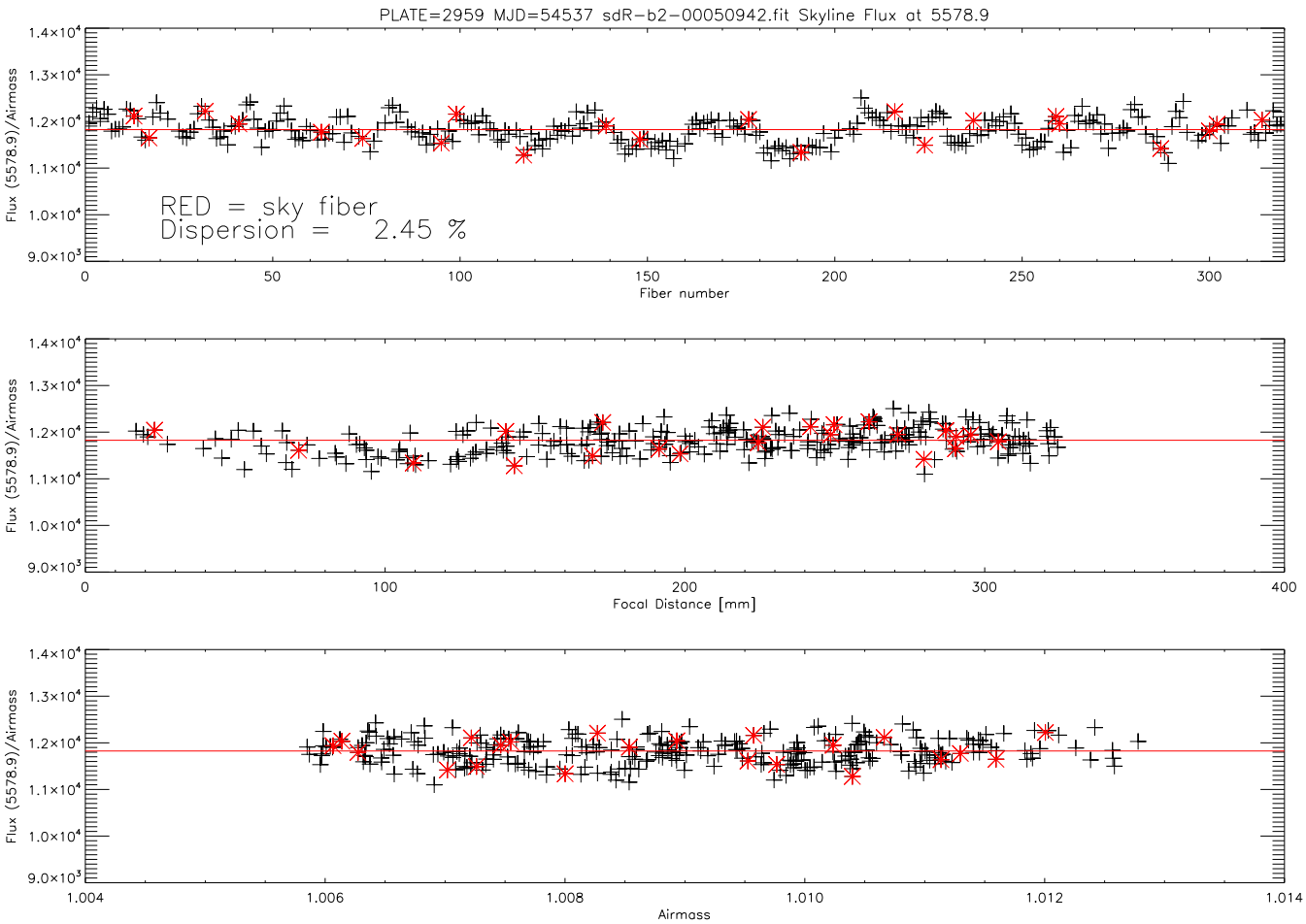

PLATE=2959 MJD=54537 sdR-b2-00050942.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
50
100
150
200
250
300
Fiber number

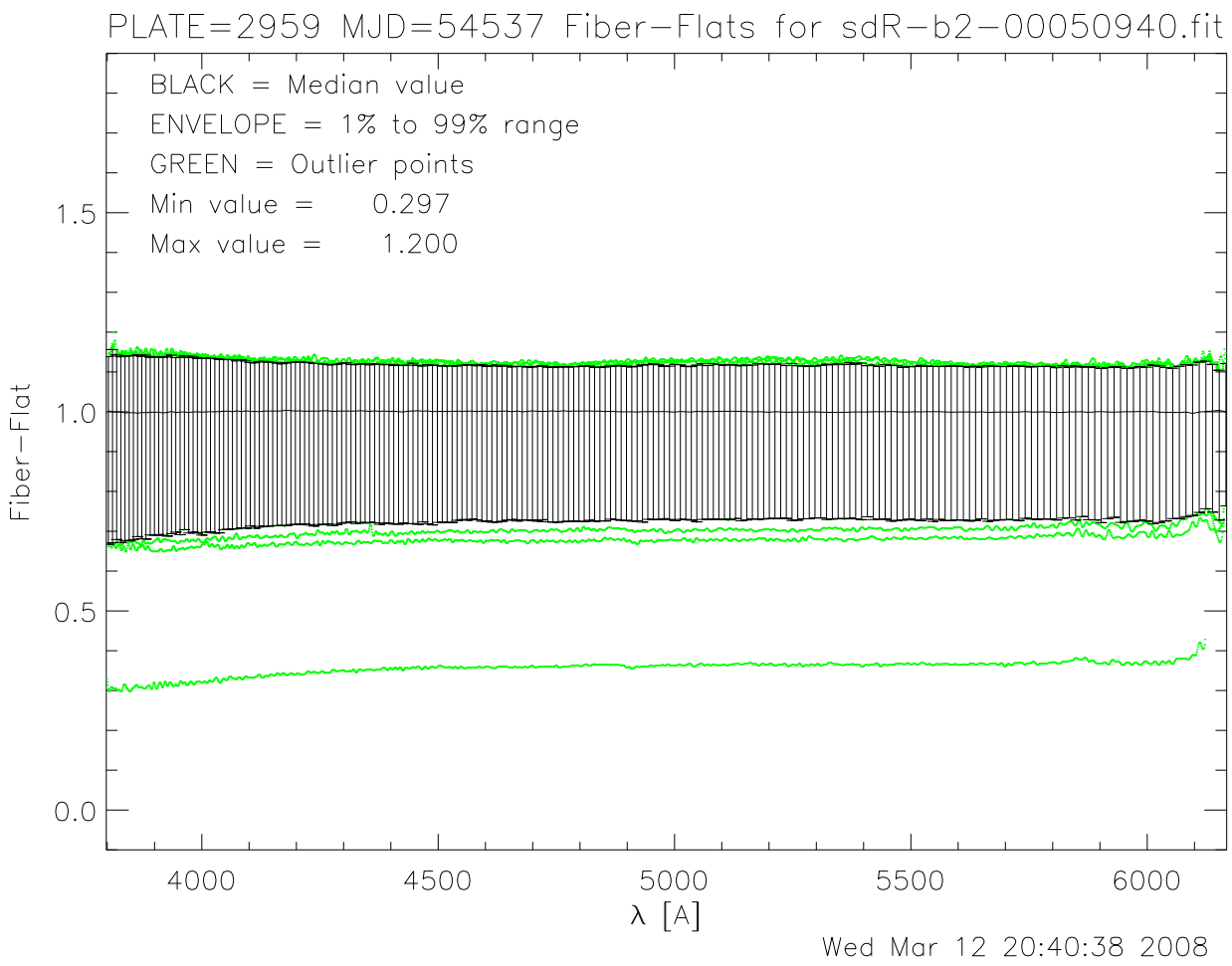

PLATE=2959 MJD=54537 sdR-b2-00050942.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

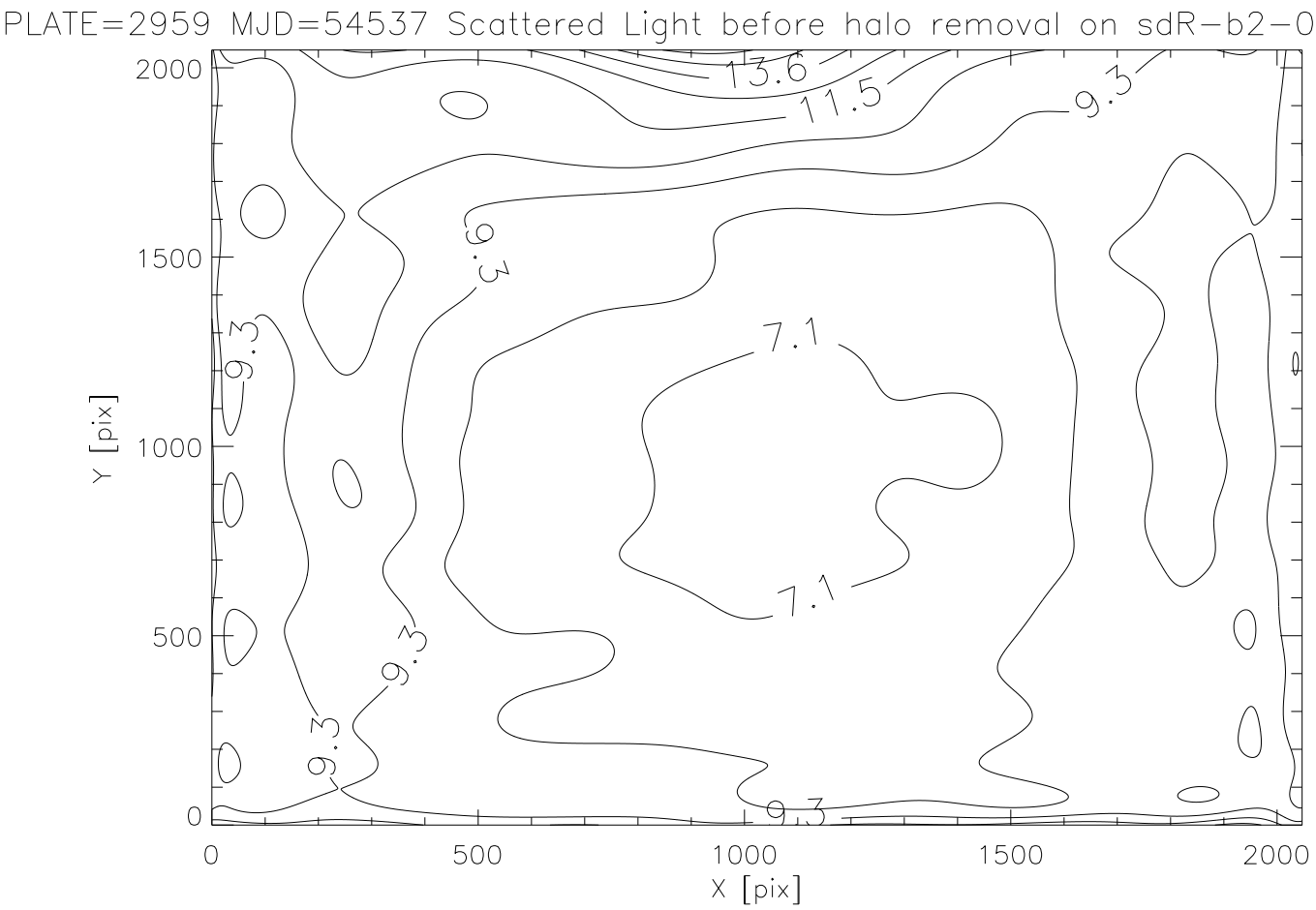

PLATE=2959 MJD=54537 sdR-b2-00050942.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2500
2000
1500
1000
500
0
-500
5570
5575
5580
5585
5590
λ [A]

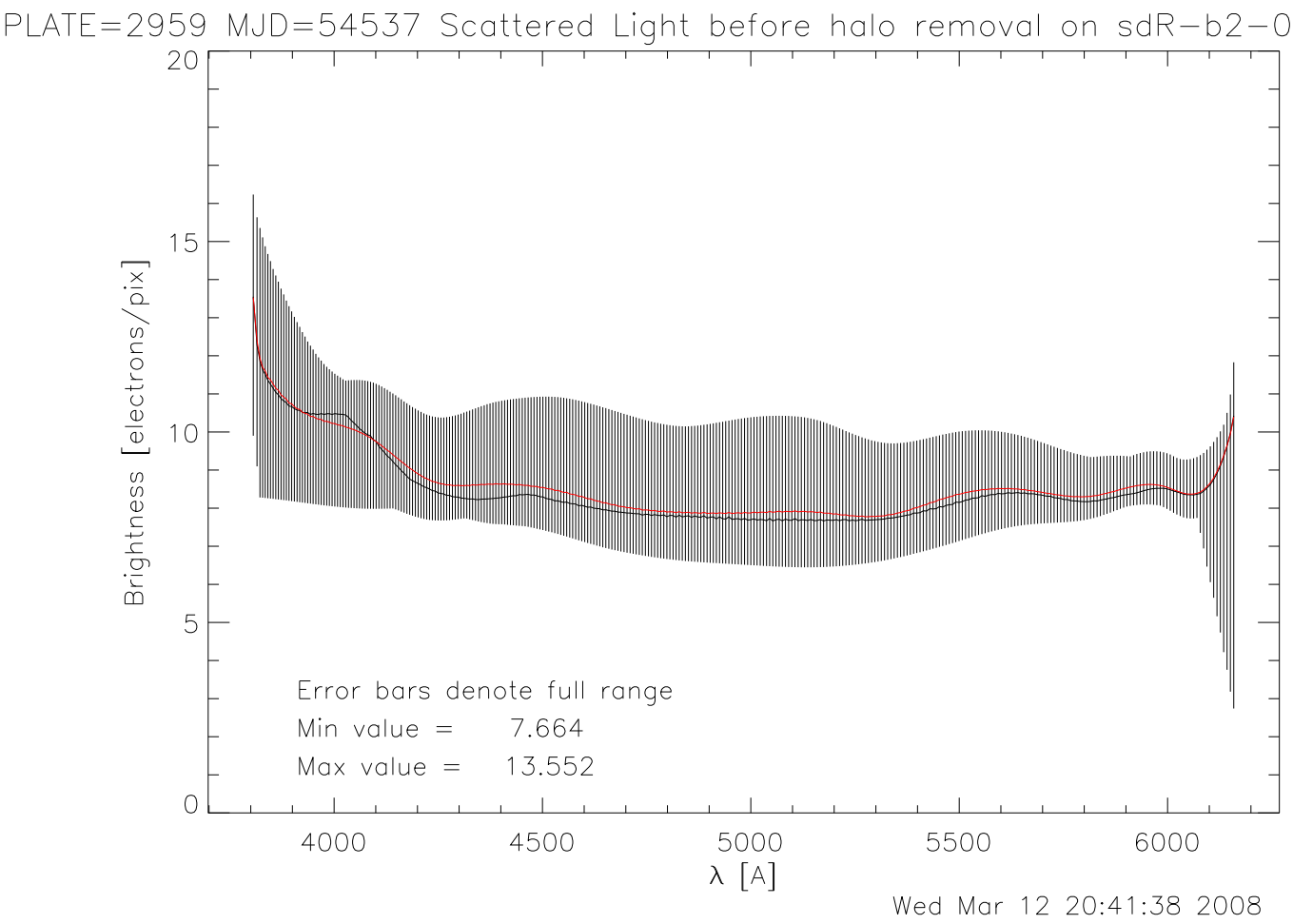

Number of sky fibers = 23
PLATE=2959 MJD=54537 sdR-b2-00050942.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

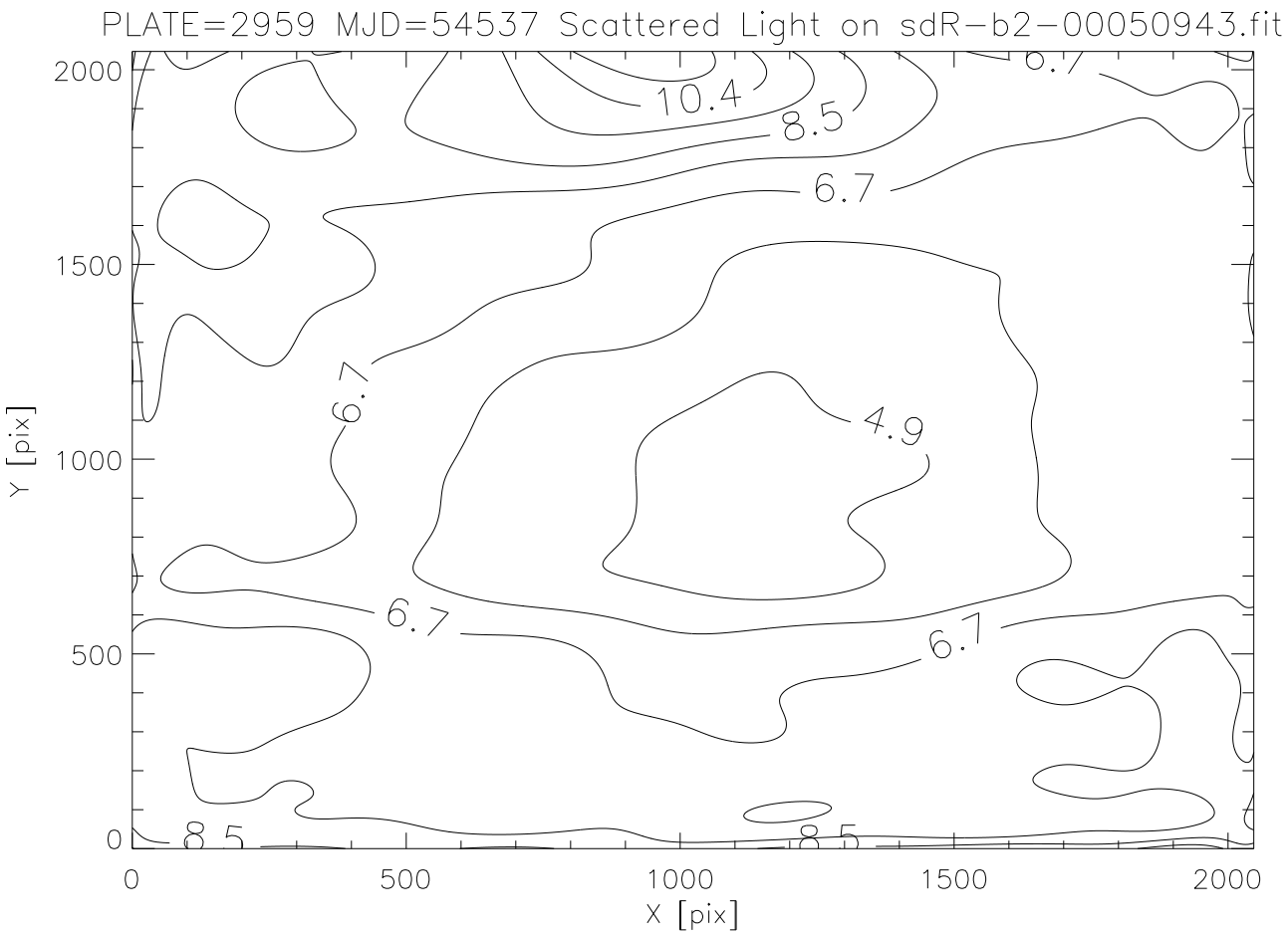

PLATE=2959 MJD=54537 sdR-b2-00050942.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 13.06 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

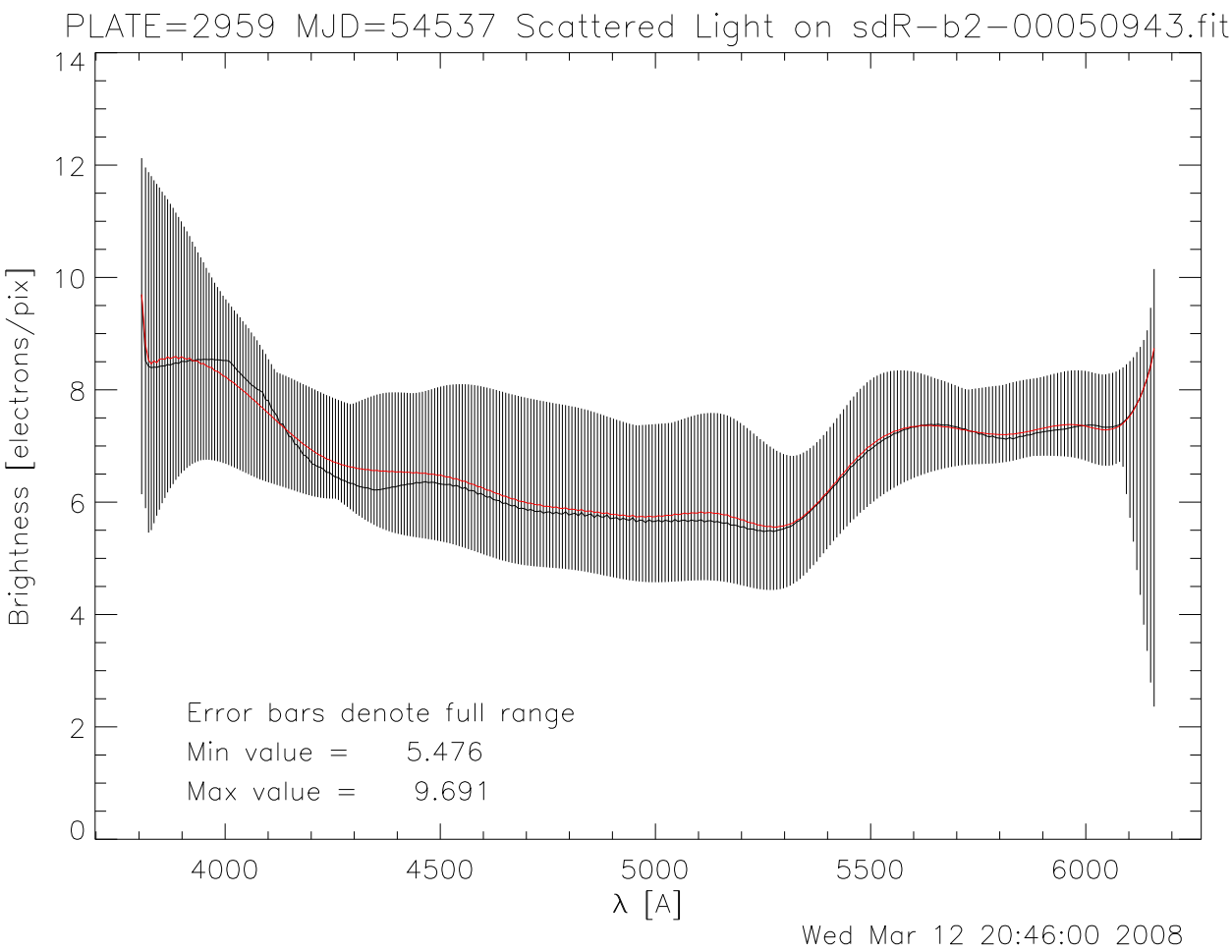

PLATE=2959 MJD=54537 sdR-b2-00050942.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.45 %
Fiber number
Focal Distance [mm]
Airmass

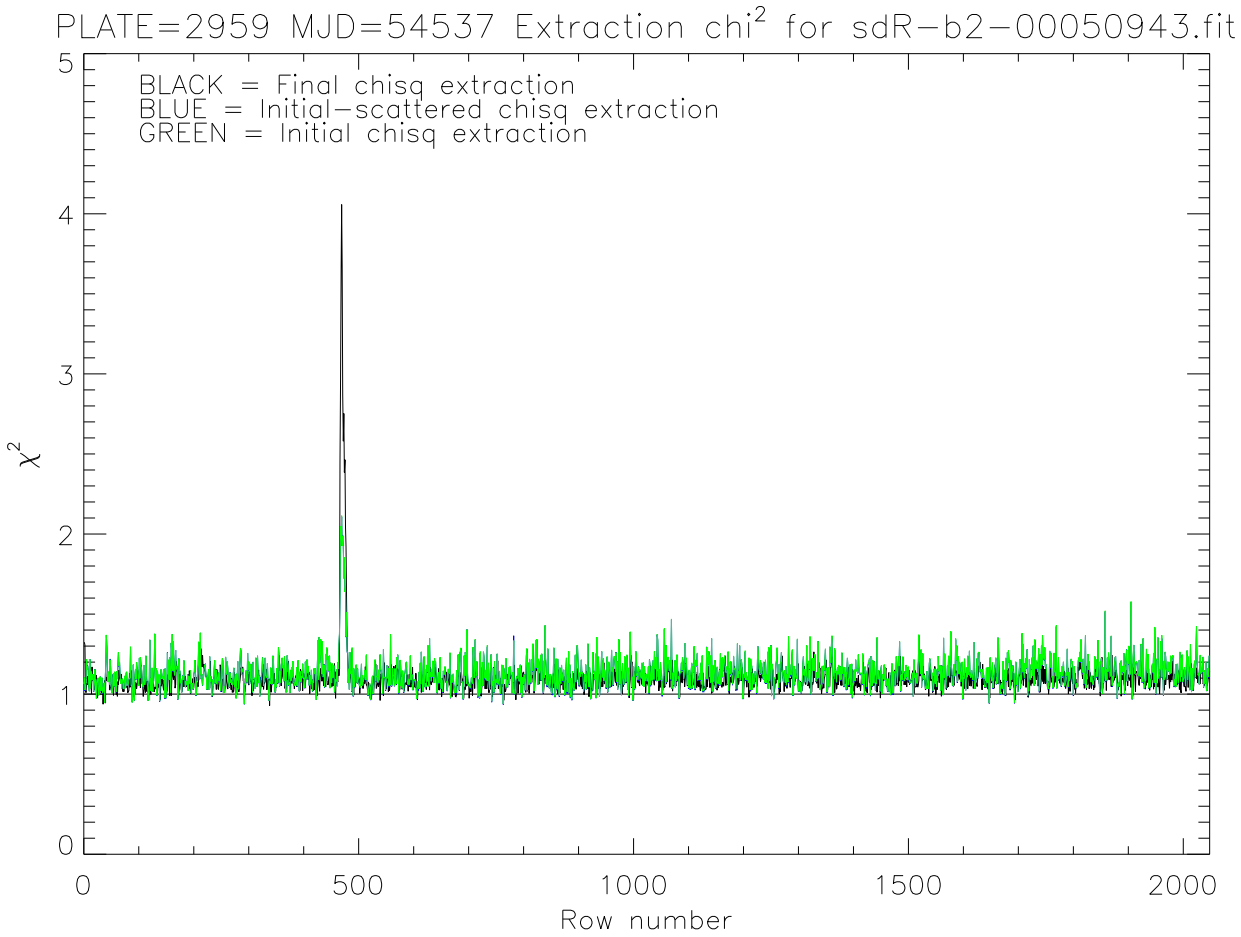

PLATE=2959 MJD=54537 Fiber-Flats for sdR-b2-00050940.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.297
Max value = 1.200
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 20:40:38 2008

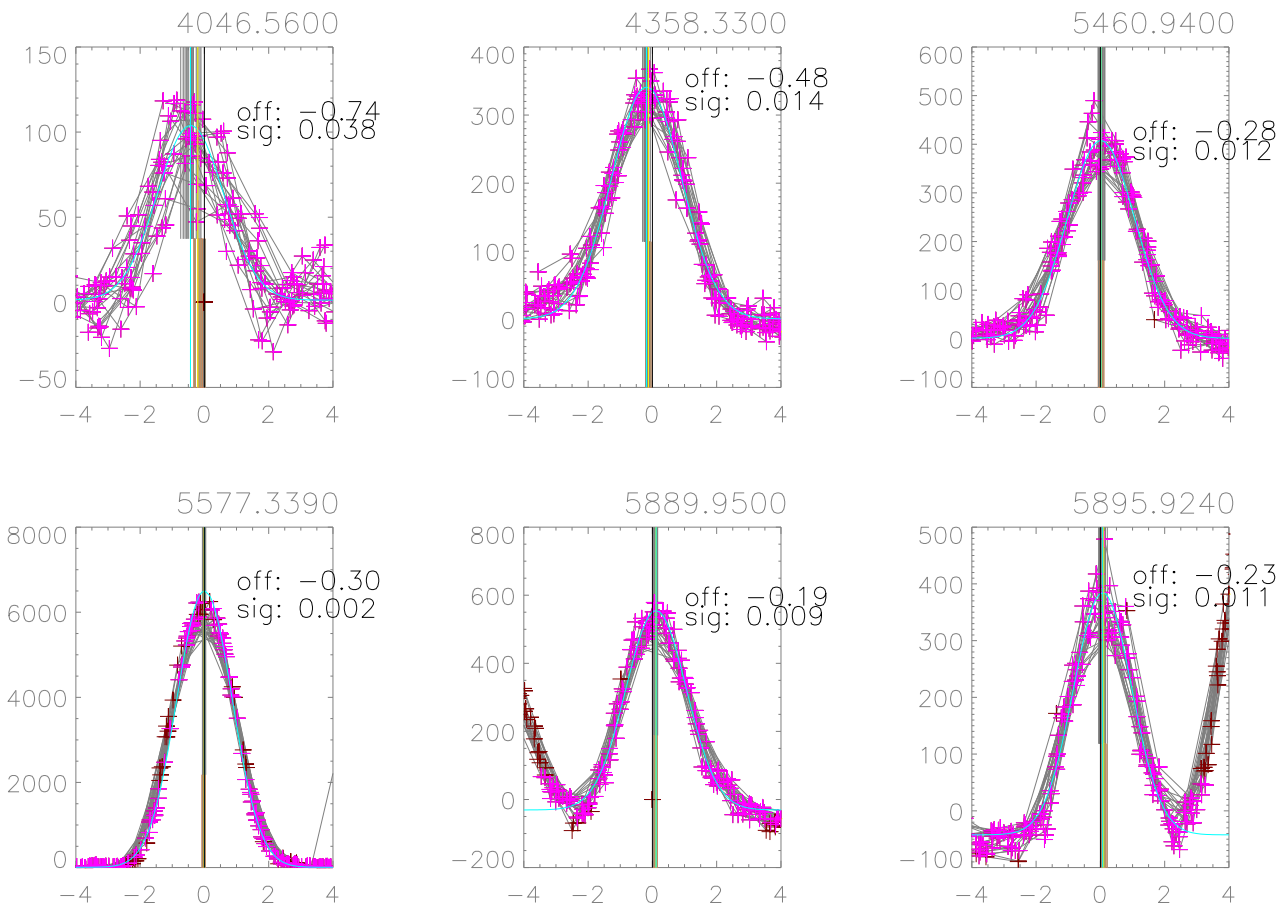

PLATE=2959 MJD=54537 Scattered Light before halo removal on sdR−b2−00050943.f
13.6
11.5
9.3
9.3
9.3
7.1
7.1
9.3
9.3
9.3
2000
1500
1000
500
0
0
500
1000
1500
2000
Y [pix]
X [pix]

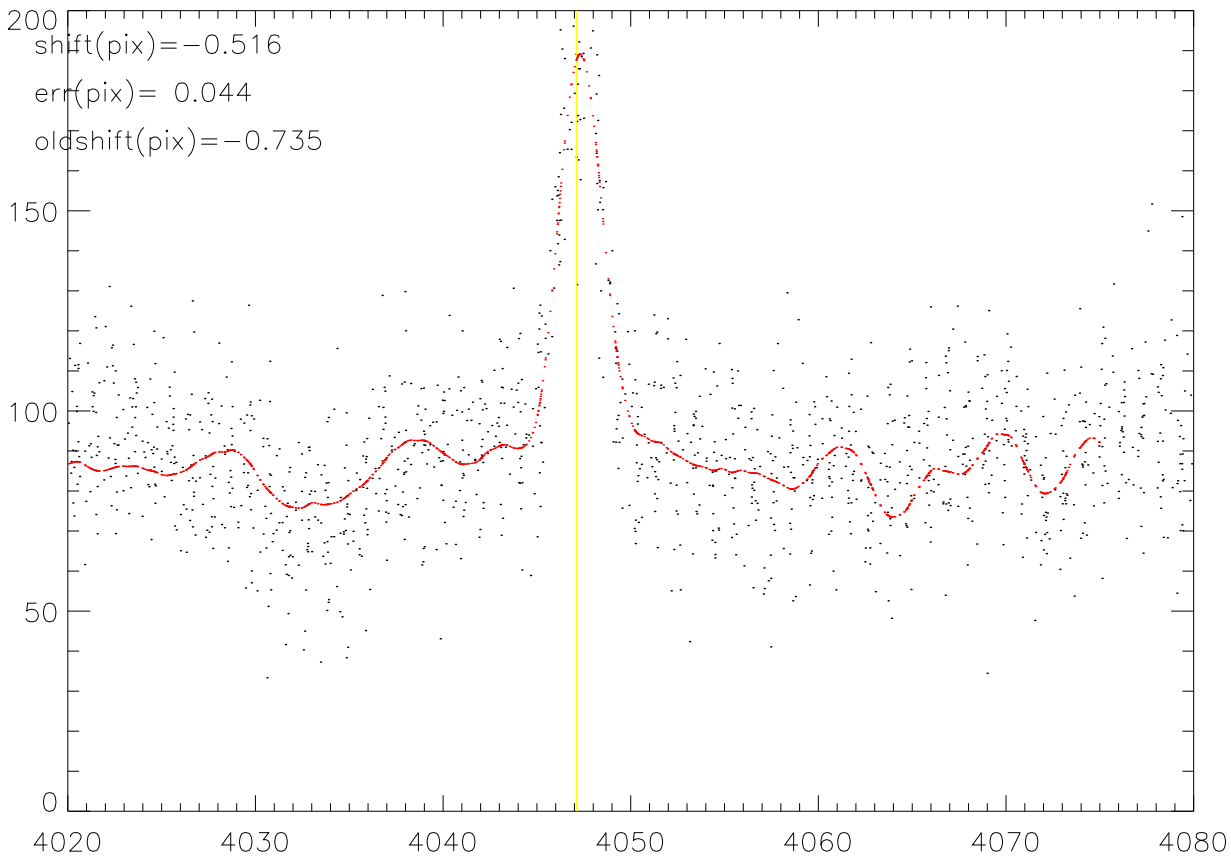

PLATE=2959 MJD=54537 Scattered Light before halo removal on sdR−b2−00050943.f
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 7.664
Max value = 13.552
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 20:41:38 2008

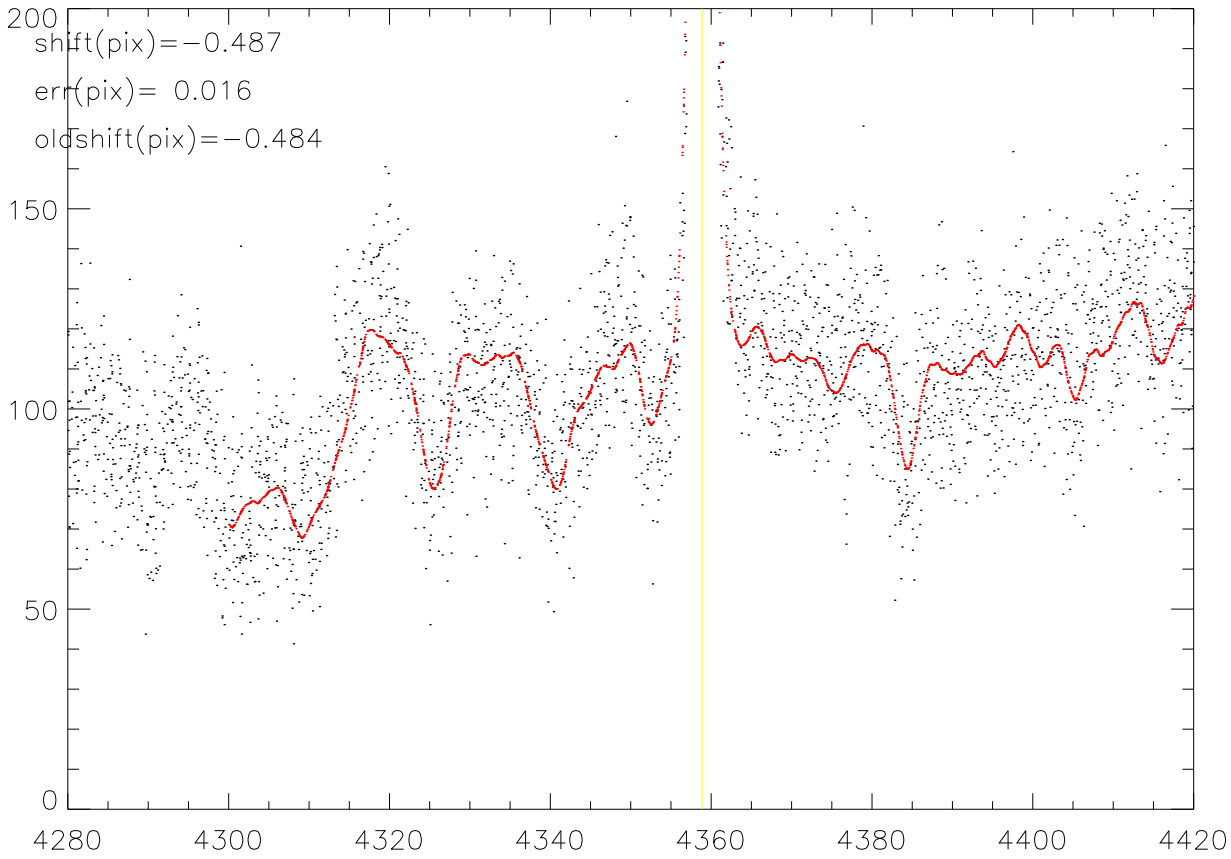

PLATE=2959 MJD=54537 Scattered Light on sdR-b2-00050943.fit
10.4
8.5
6.7
6.7
6.7
4.9
6.7
6.7
8.5
8.5
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

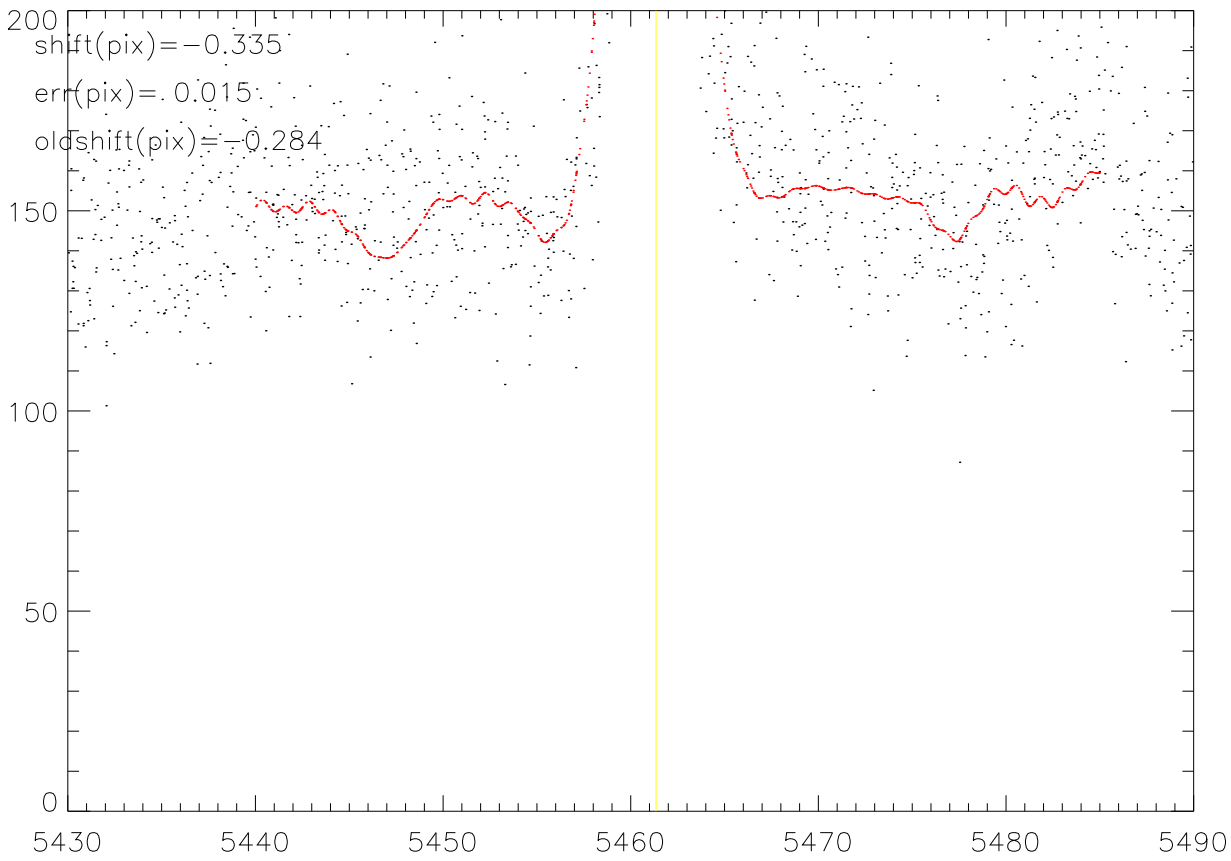

PLATE=2959 MJD=54537 Scattered Light on sdR-b2-00050943.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.476
Max value = 9.691
Wed Mar 12 20:46:00 2008

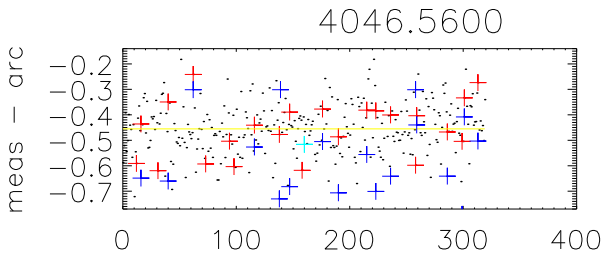

PLATE=2959 MJD=54537 Extraction chi^2 for sdR-b2-00050943.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

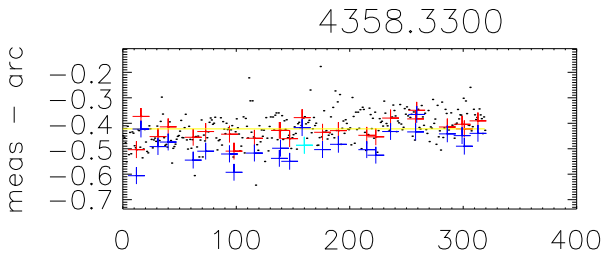

4046.5600
off: −0.74
sig: 0.038
4358.3300
off: −0.48
sig: 0.014
5460.9400
off: −0.28
sig: 0.012
5577.3390
off: −0.30
sig: 0.002
5889.9500
off: −0.19
sig: 0.009
5895.9240
off: −0.23
sig: 0.011

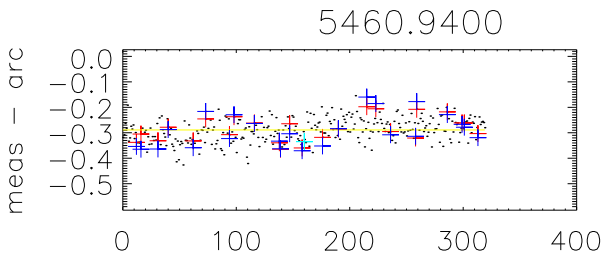

shift(pix)=−0.516
err(pix)= 0.044
oldshift(pix)=−0.735
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

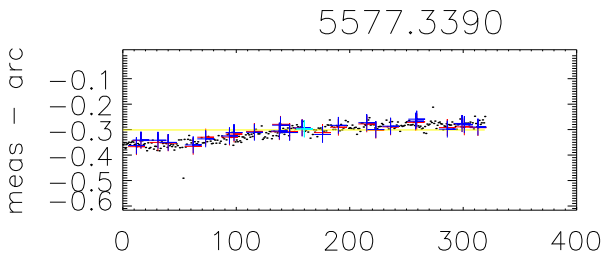

shift(pix)=−0.487
err(pix)= 0.016
oldshift(pix)=−0.484
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

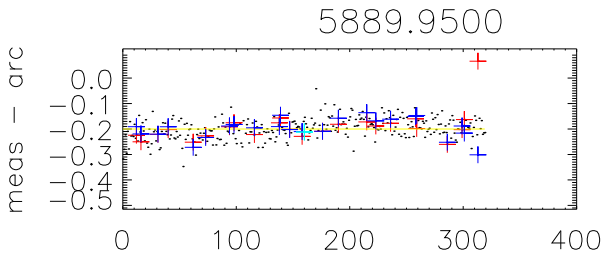

shift(pix)=−0.335
err(pix)=. 0.015
oldshift(pix)=−0.284
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

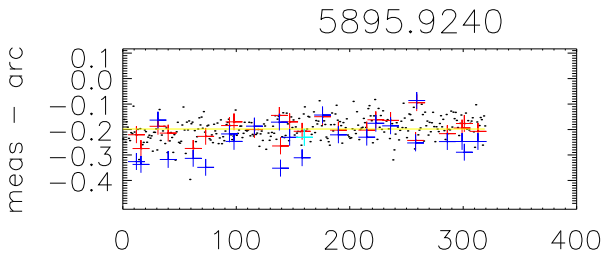

4046.5600
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

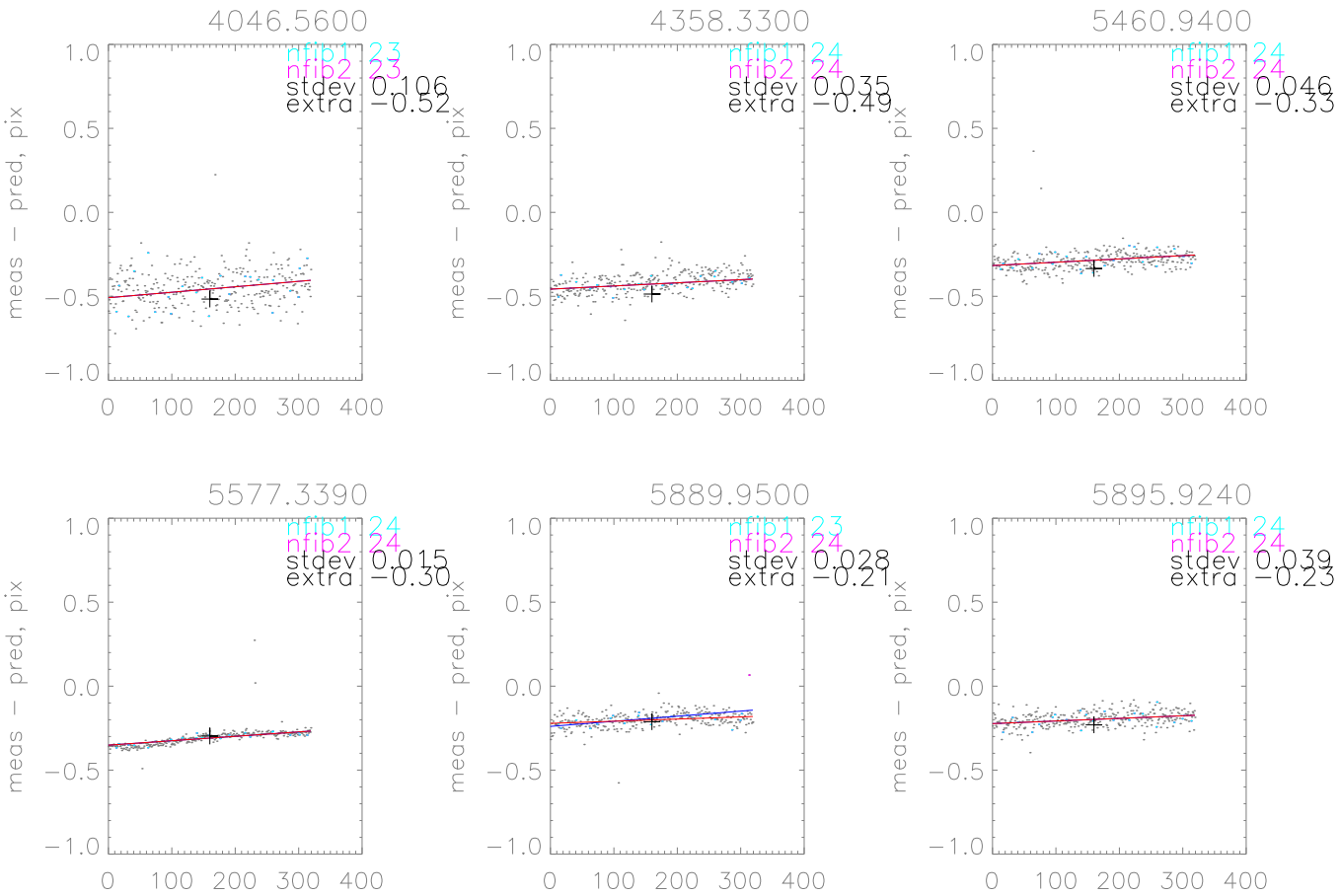

4358.3300
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

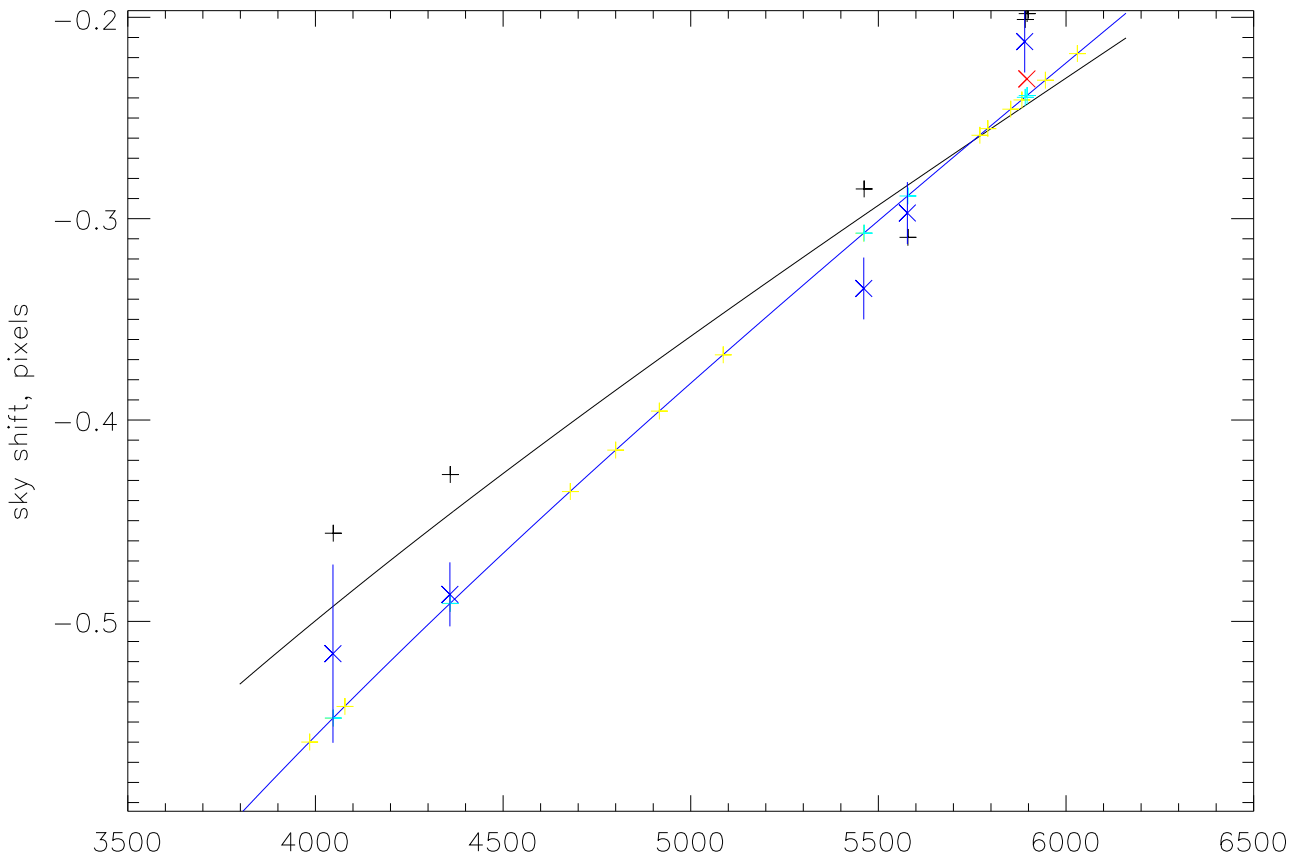

5460.9400
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

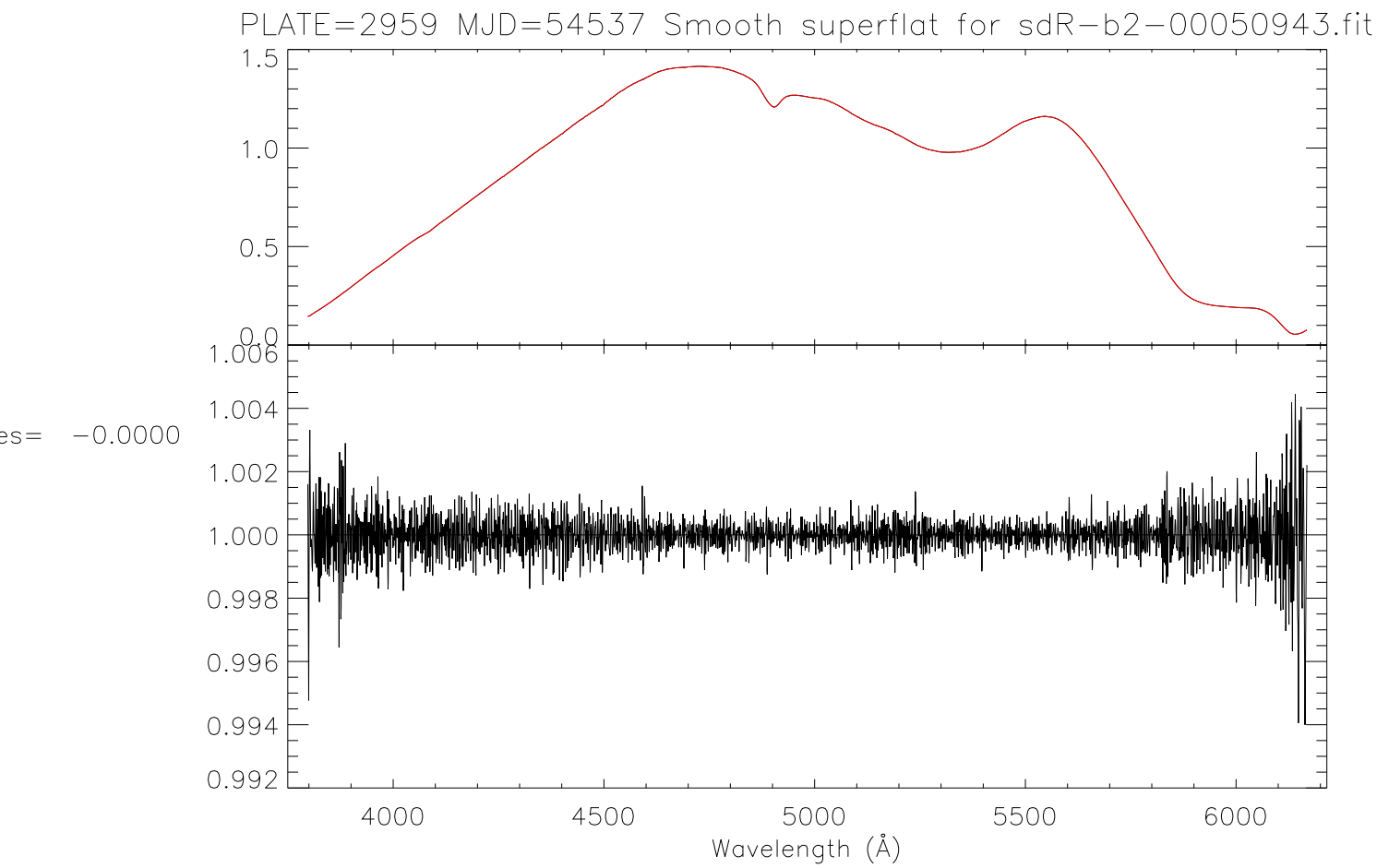

5577.3390
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400


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

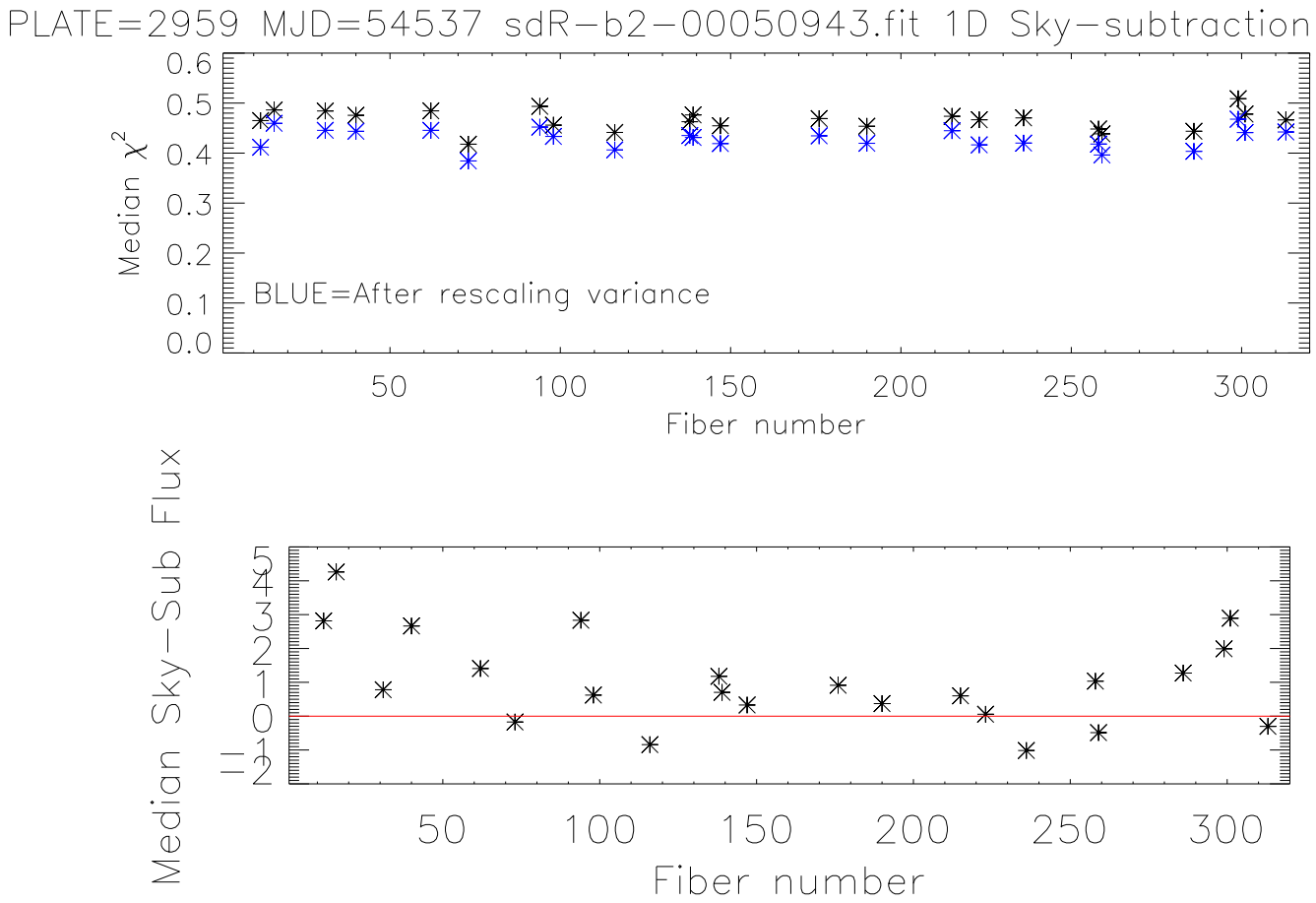

5895.9240
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

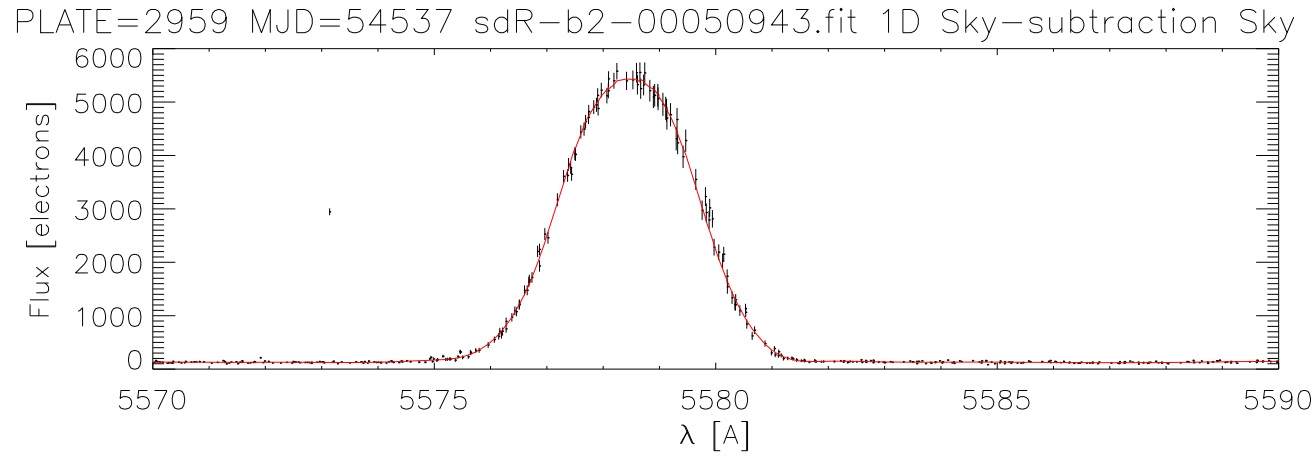

4046.5600
nfib1 23
nfib2 23
stdev 0.106
extra −0.52
4358.3300
nfib1 24
nfib2 24
stdev 0.035
extra −0.49
5460.9400
nfib1 24
nfib2 24
stdev 0.046
extra −0.33
5577.3390
nfib1 24
nfib2 24
stdev 0.015
extra −0.30
5889.9500
nfib1 23
nfib2 24
stdev 0.028
extra −0.21
5895.9240
nfib1 24
nfib2 24
stdev 0.039
extra −0.23
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

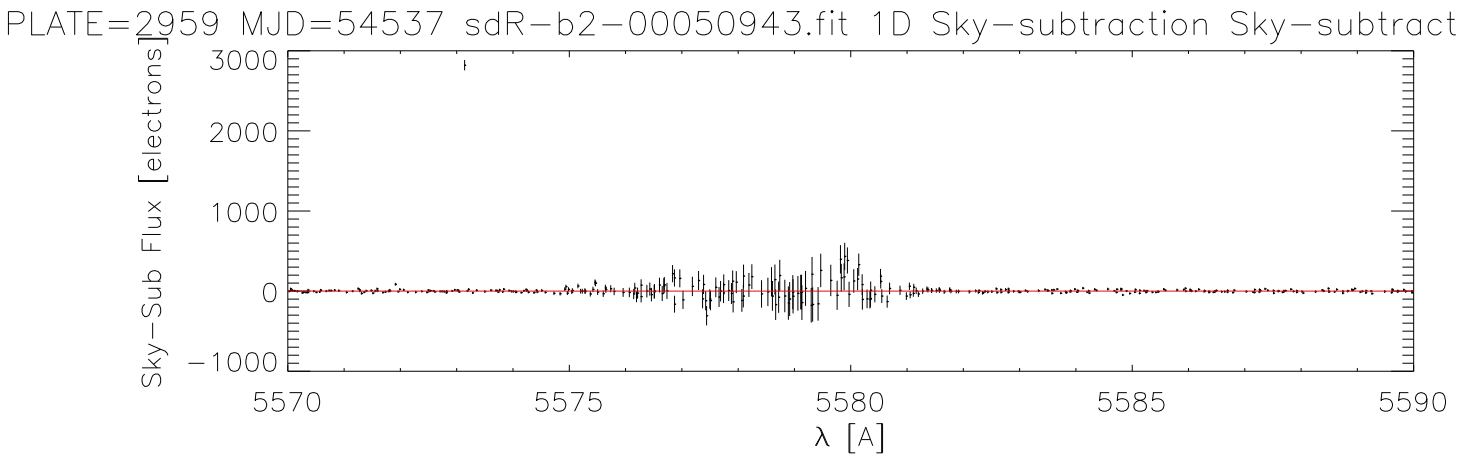

−0.2
−0.3
−0.4
−0.5
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

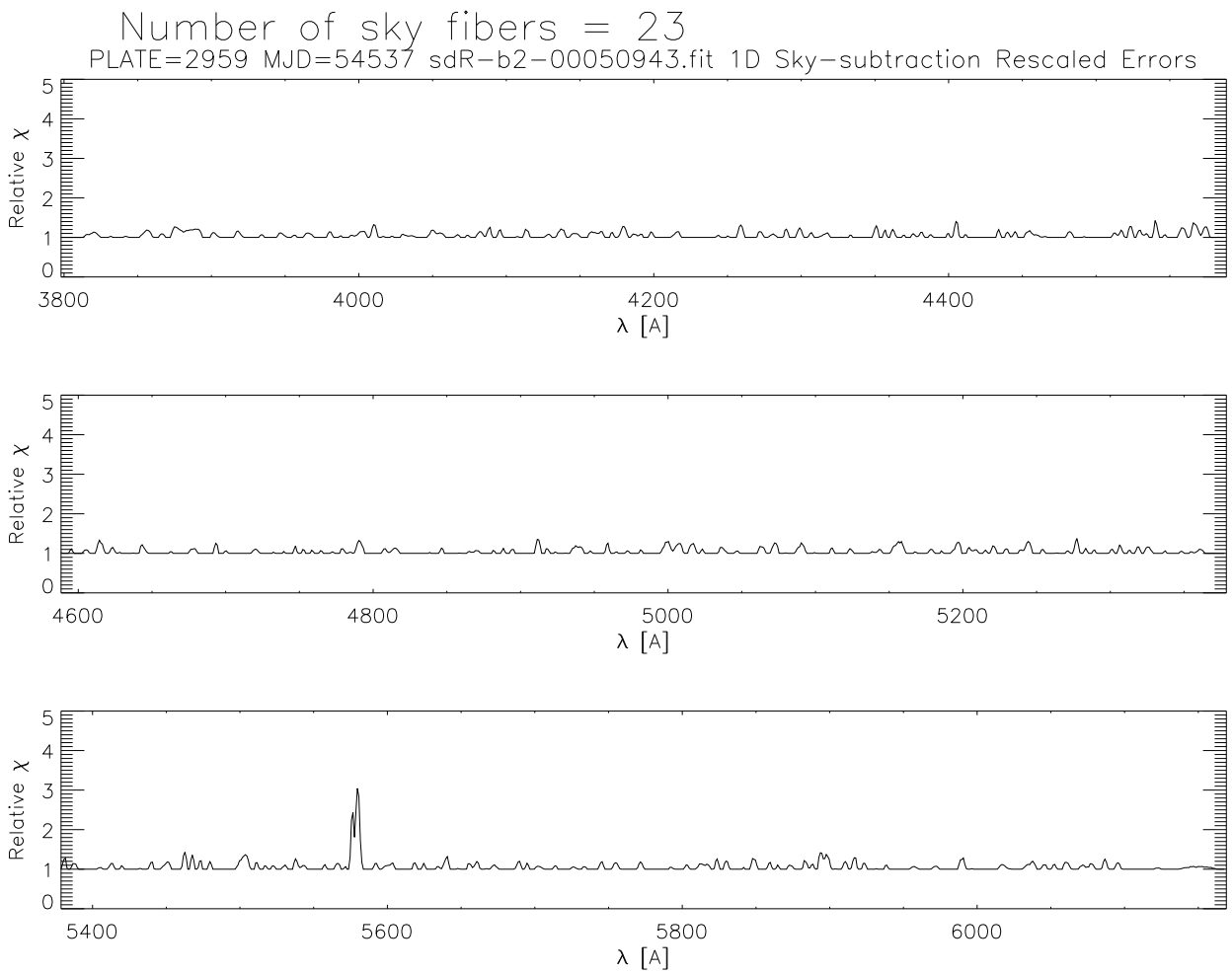

PLATE=2959 MJD=54537 Smooth superflat for sdR-b2-00050943.fit
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
4000
4500
5000
5500
6000
Wavelength (Å)

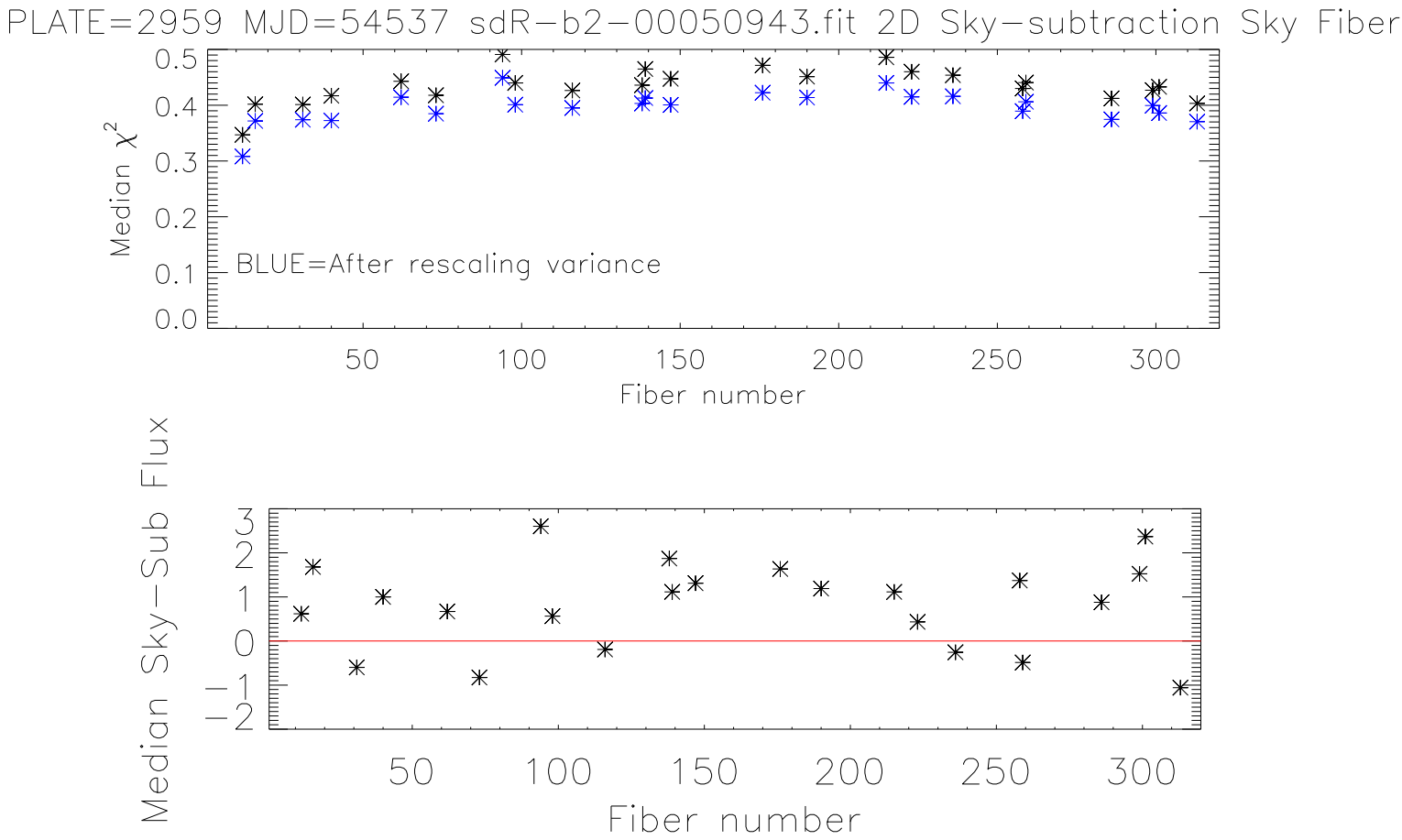
es= −0.0000

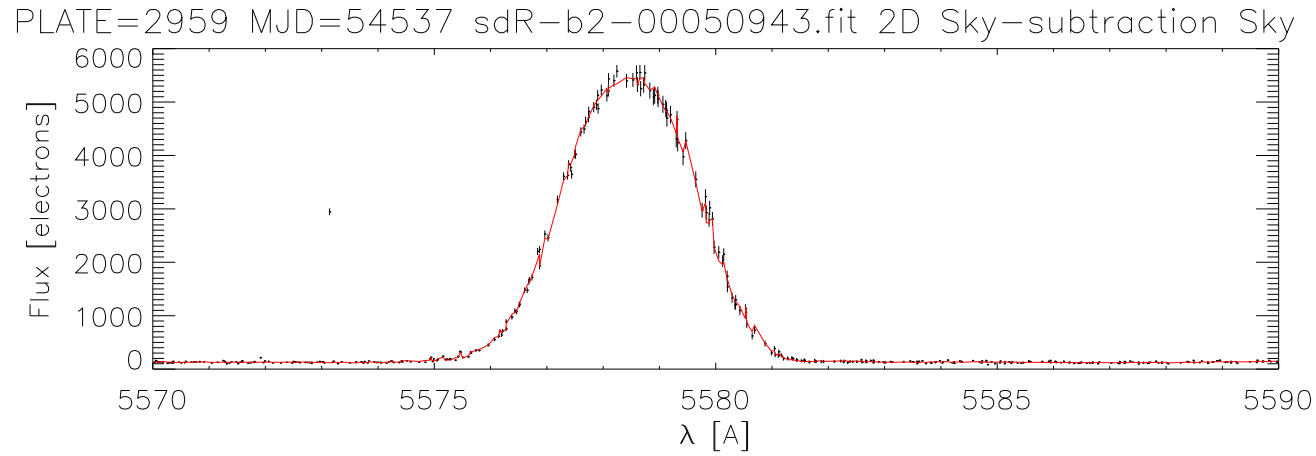

PLATE=2959 MJD=54537 sdR-b2-00050943.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

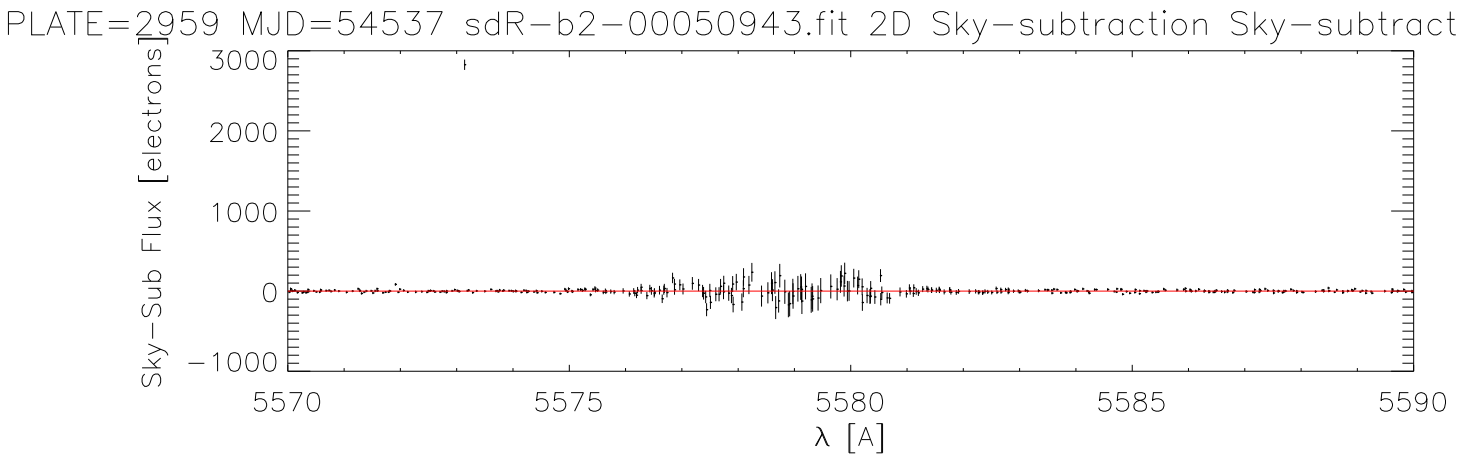

PLATE=2959 MJD=54537 sdR-b2-00050943.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

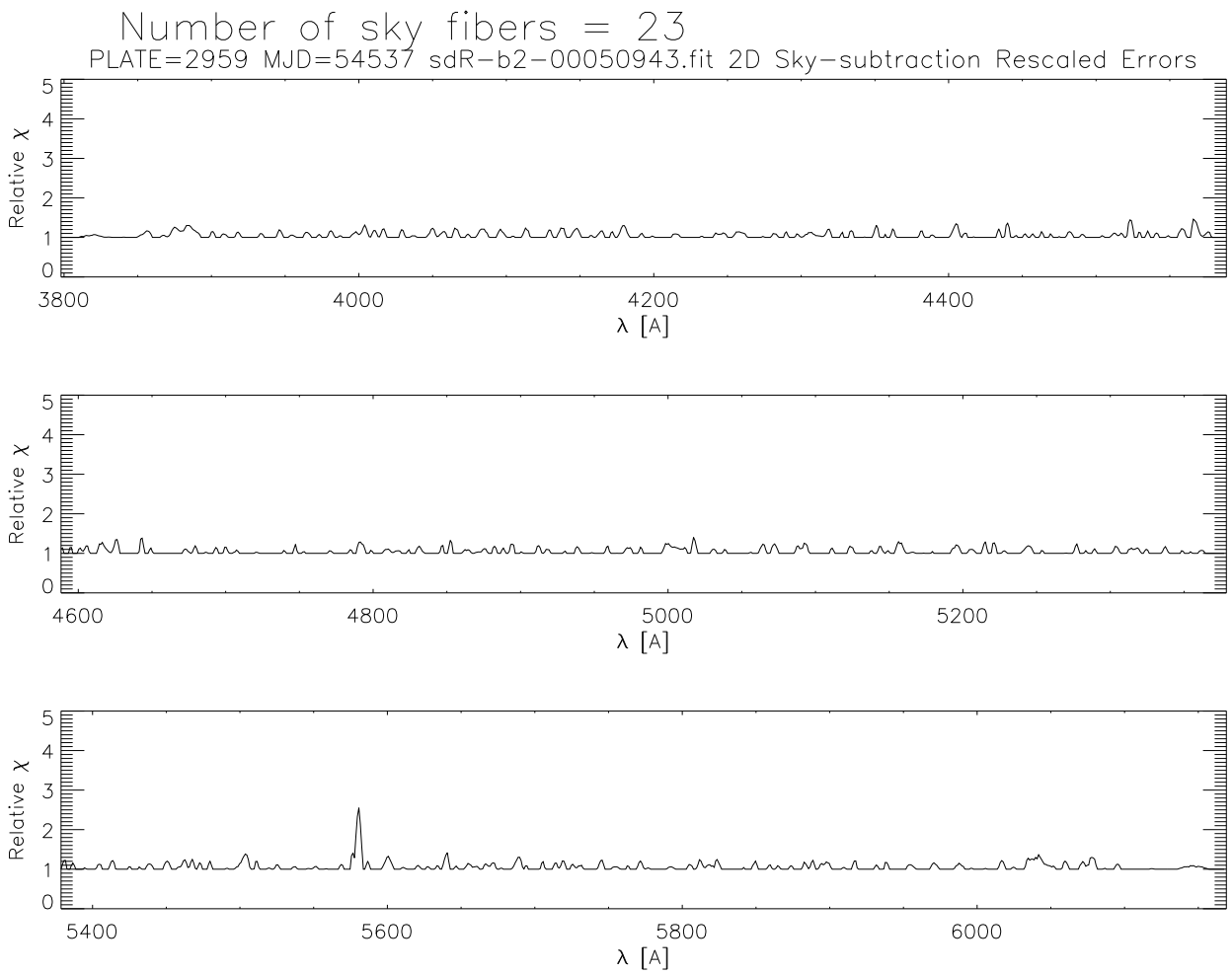

PLATE=2959 MJD=54537 sdR-b2-00050943.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
3000
2000
1000
0
-1000
5570
5575
5580
5585
5590
λ [A]

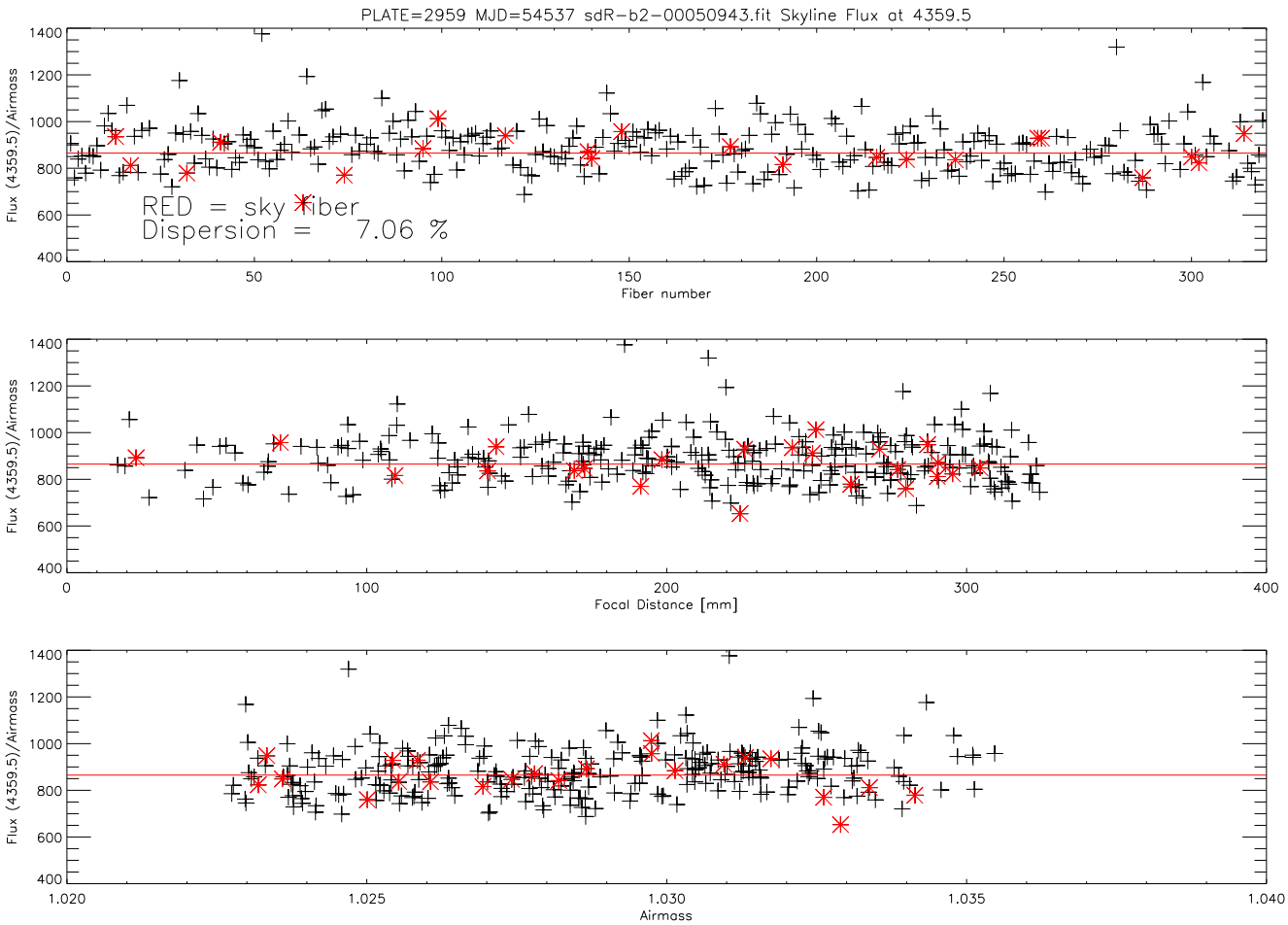

Number of sky fibers = 23
PLATE=2959 MJD=54537 sdR-b2-00050943.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

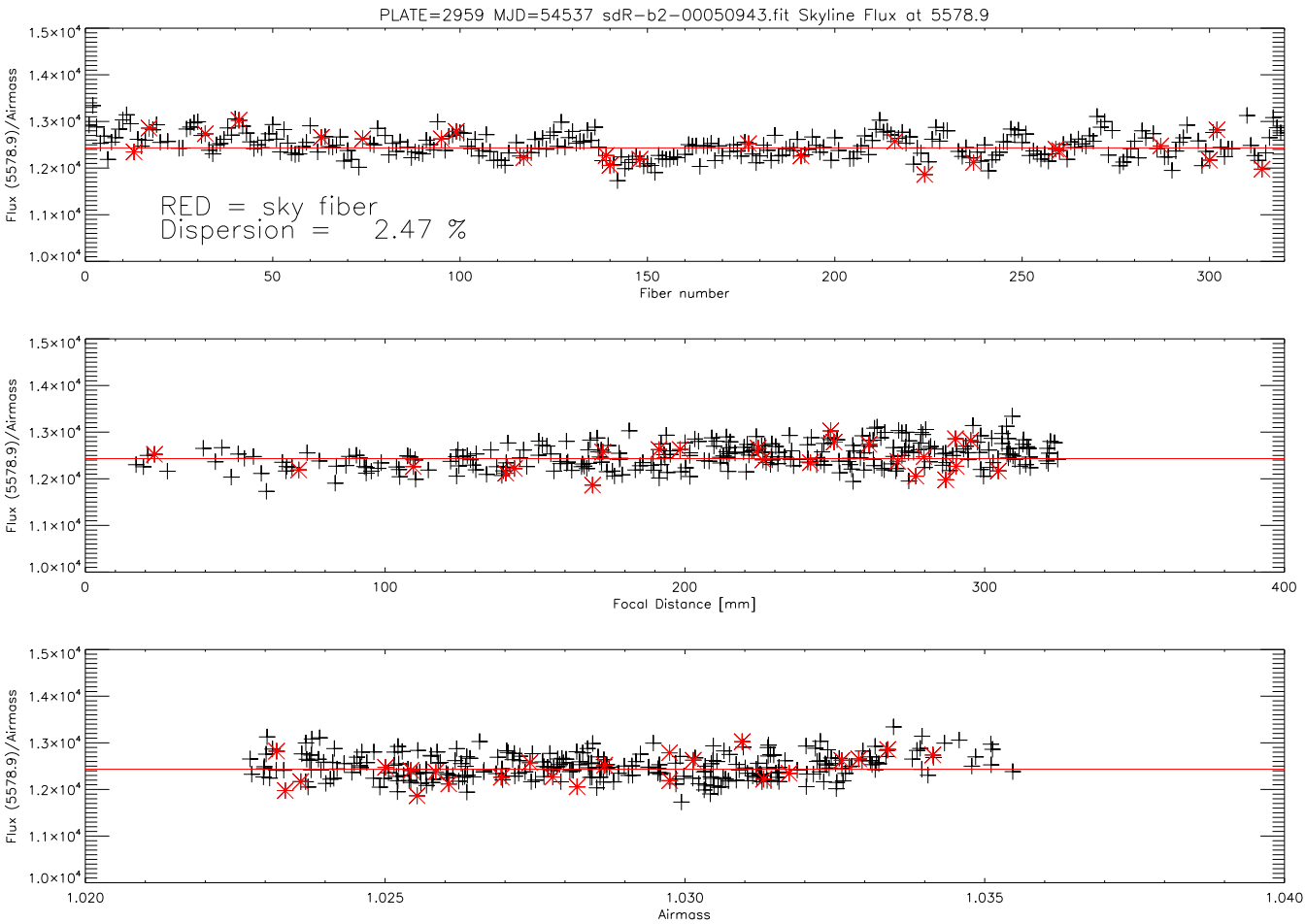

PLATE=2959 MJD=54537 sdR-b2-00050943.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
50
100
150
200
250
300
Fiber number

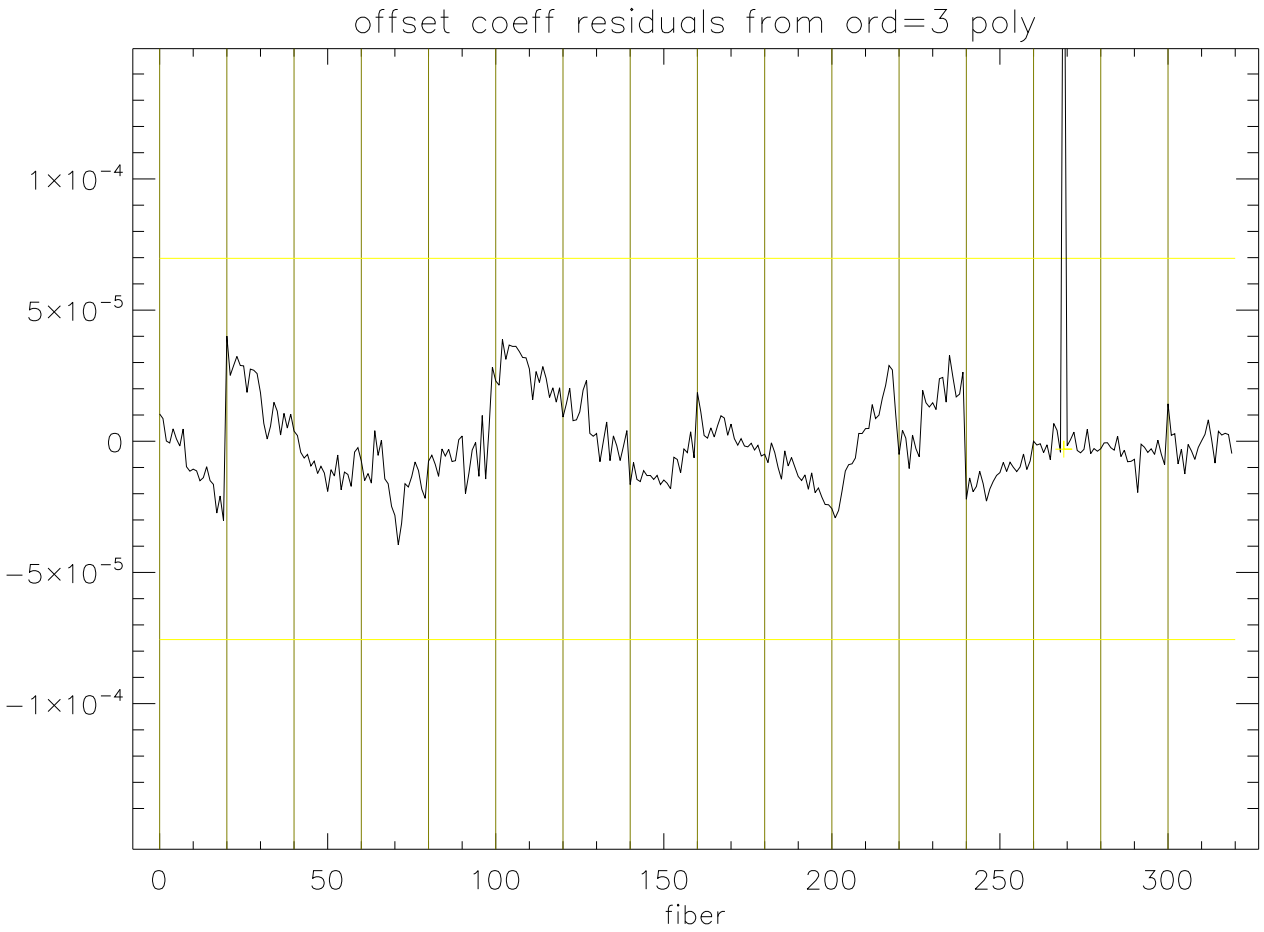

PLATE=2959 MJD=54537 sdR-b2-00050943.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

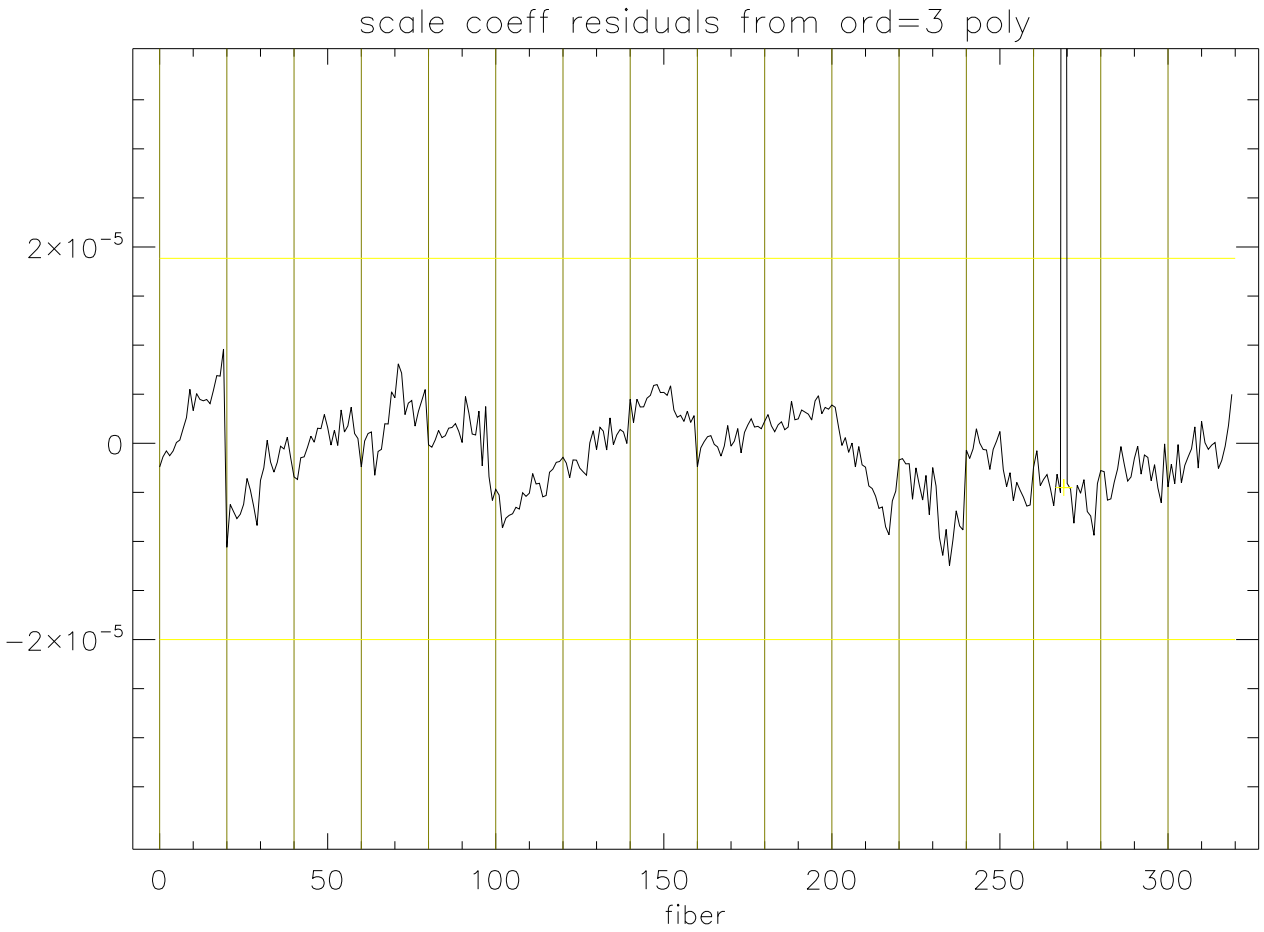

PLATE=2959 MJD=54537 sdR-b2-00050943.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
3000
2000
1000
0
-1000
5570
5575
5580
5585
5590
λ [A]

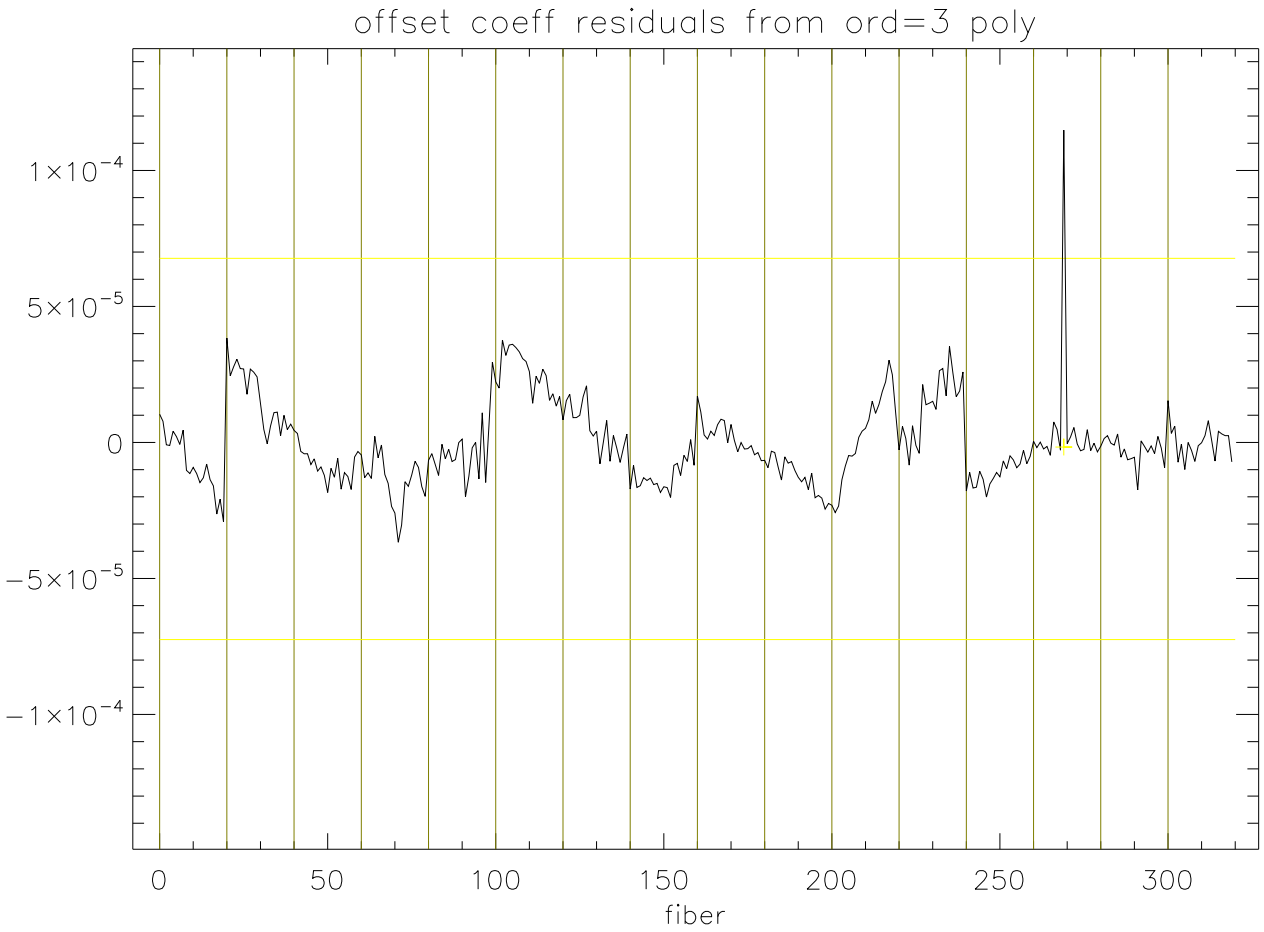

Number of sky fibers = 23
PLATE=2959 MJD=54537 sdR-b2-00050943.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

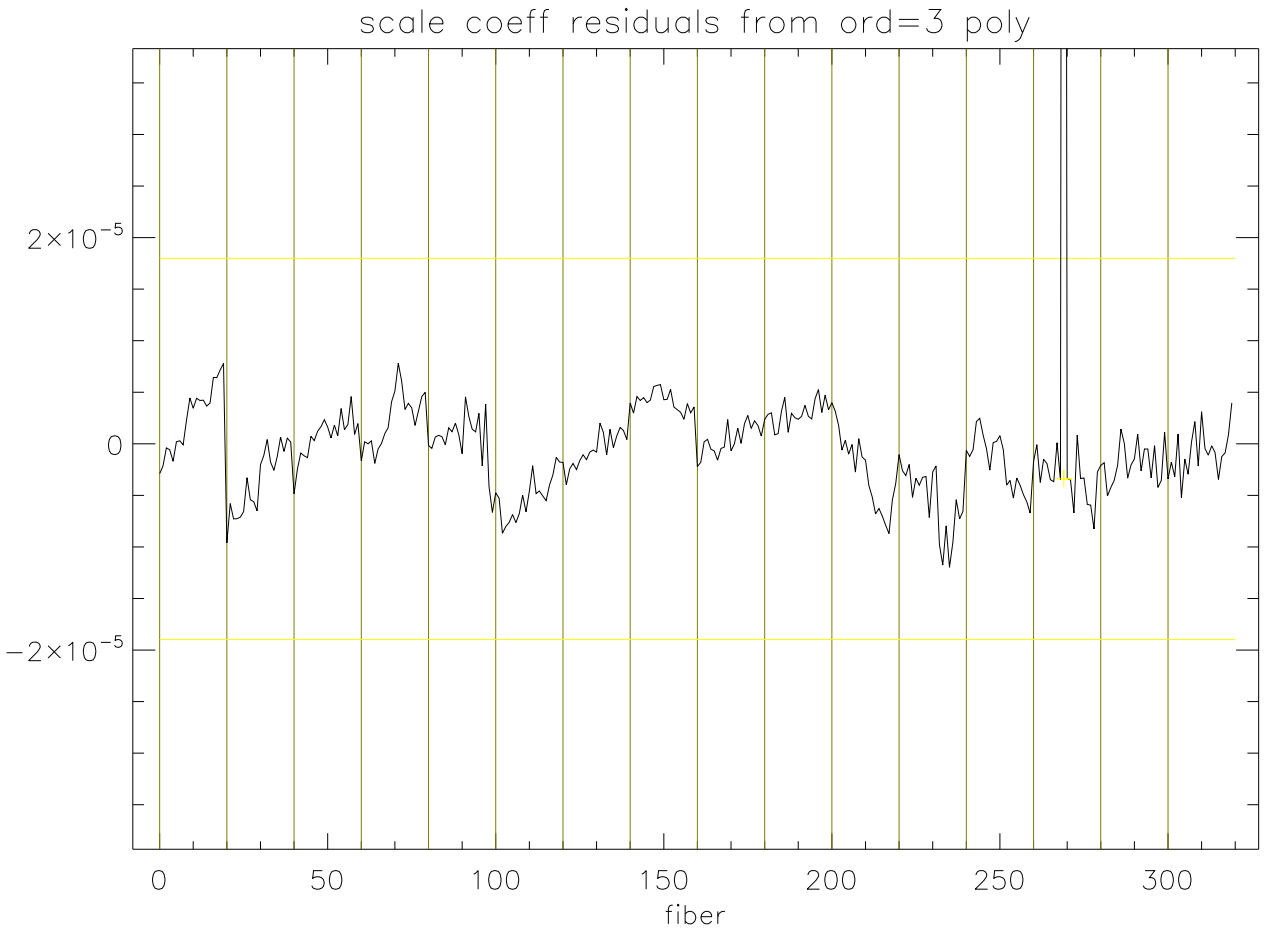

PLATE=2959 MJD=54537 sdR-b2-00050943.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 7.06 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

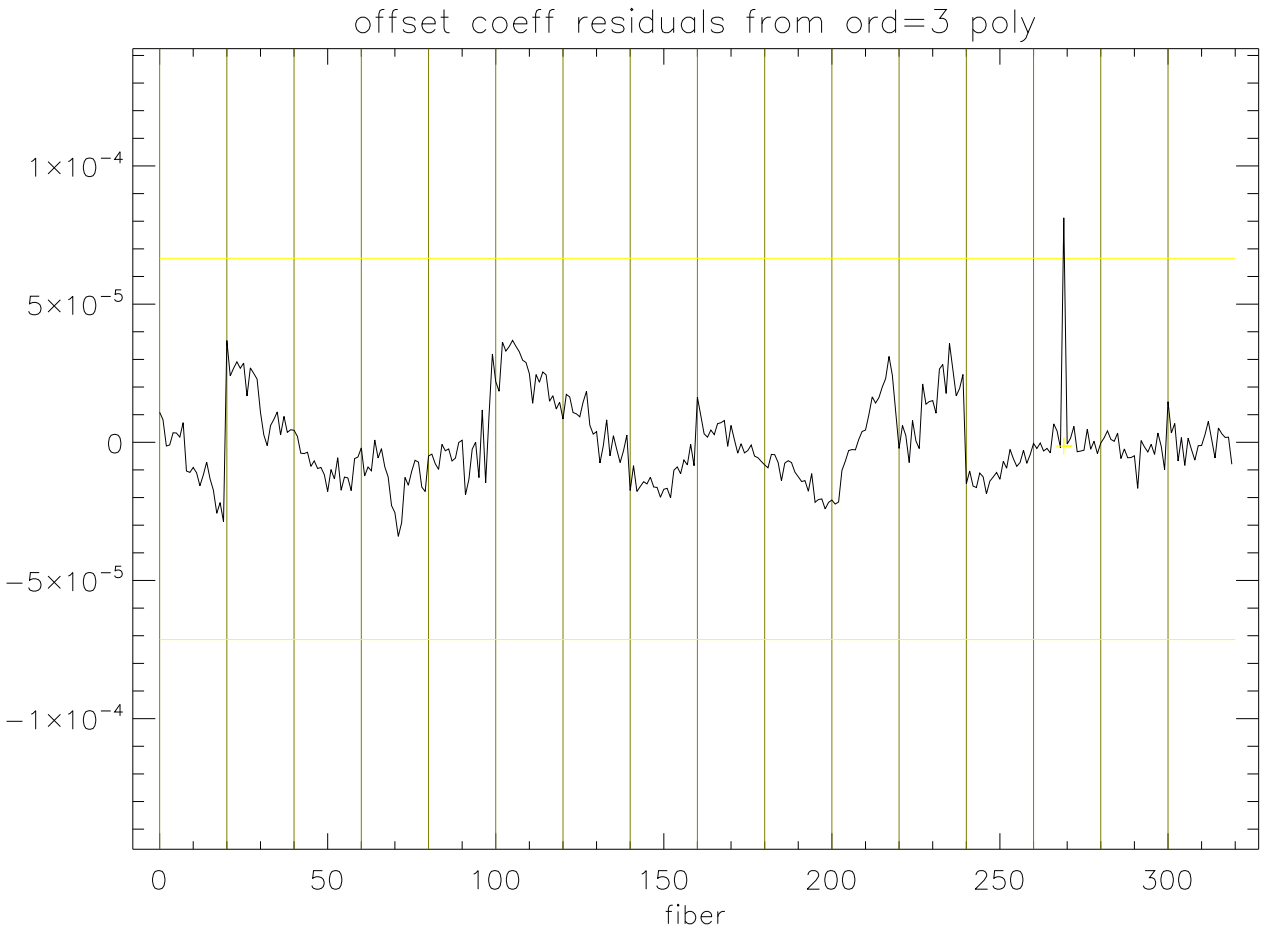

PLATE=2959 MJD=54537 sdR-b2-00050943.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
1.5×10^4
1.4×10^4
1.3×10^4
1.2×10^4
1.1×10^4
1.0×10^4
RED = sky fiber
Dispersion = 2.47 %
0
50
100
150
200
250
300
Fiber number
Flux (5578.9)/Airmass
1.5×10^4
1.4×10^4
1.3×10^4
1.2×10^4
1.1×10^4
1.0×10^4
0
100
200
300
400
Focal Distance [mm]
Flux (5578.9)/Airmass
1.5×10^4
1.4×10^4
1.3×10^4
1.2×10^4
1.1×10^4
1.0×10^4
1.020
1.025
1.030
1.035
1.040
Airmass

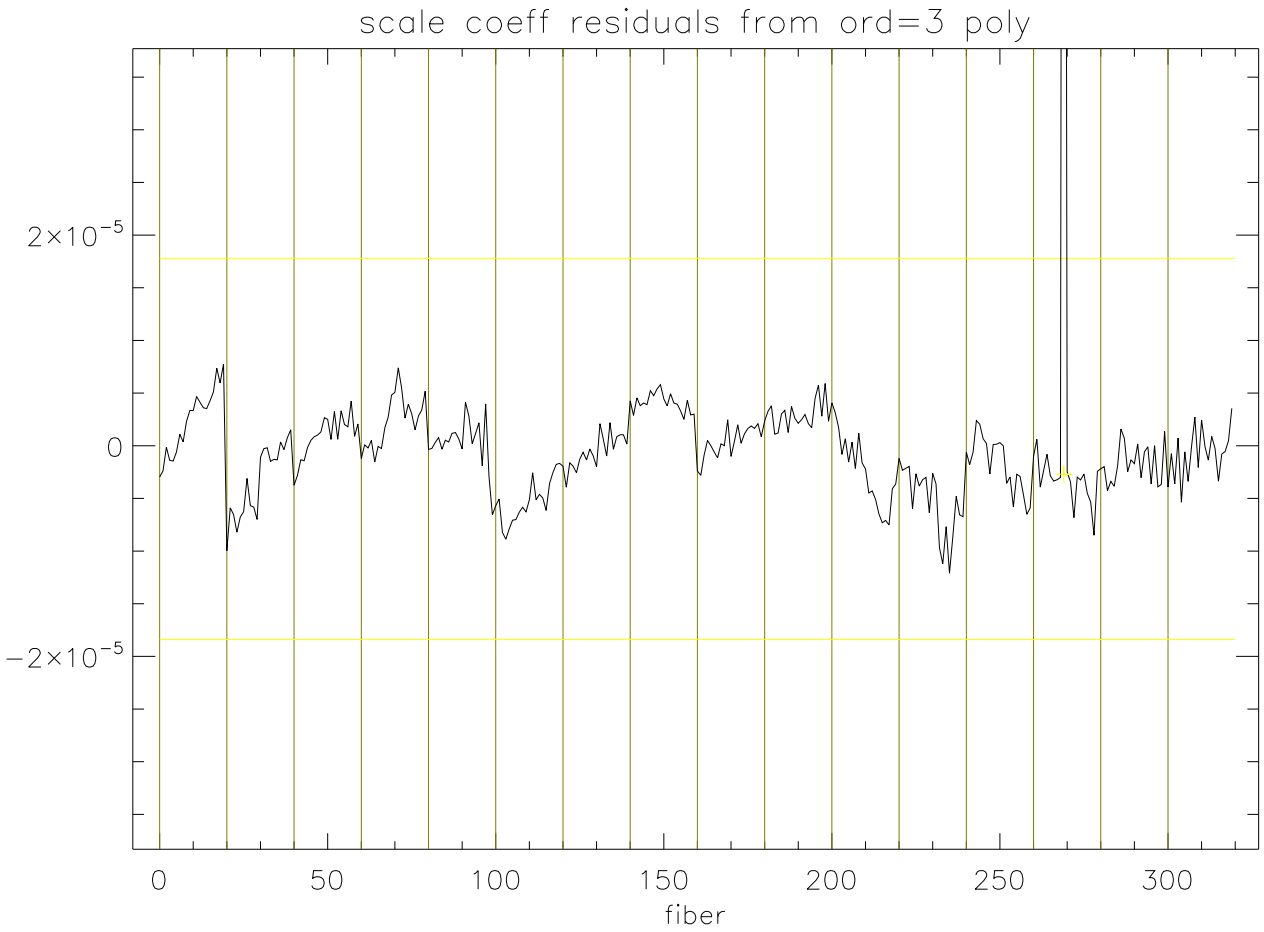

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

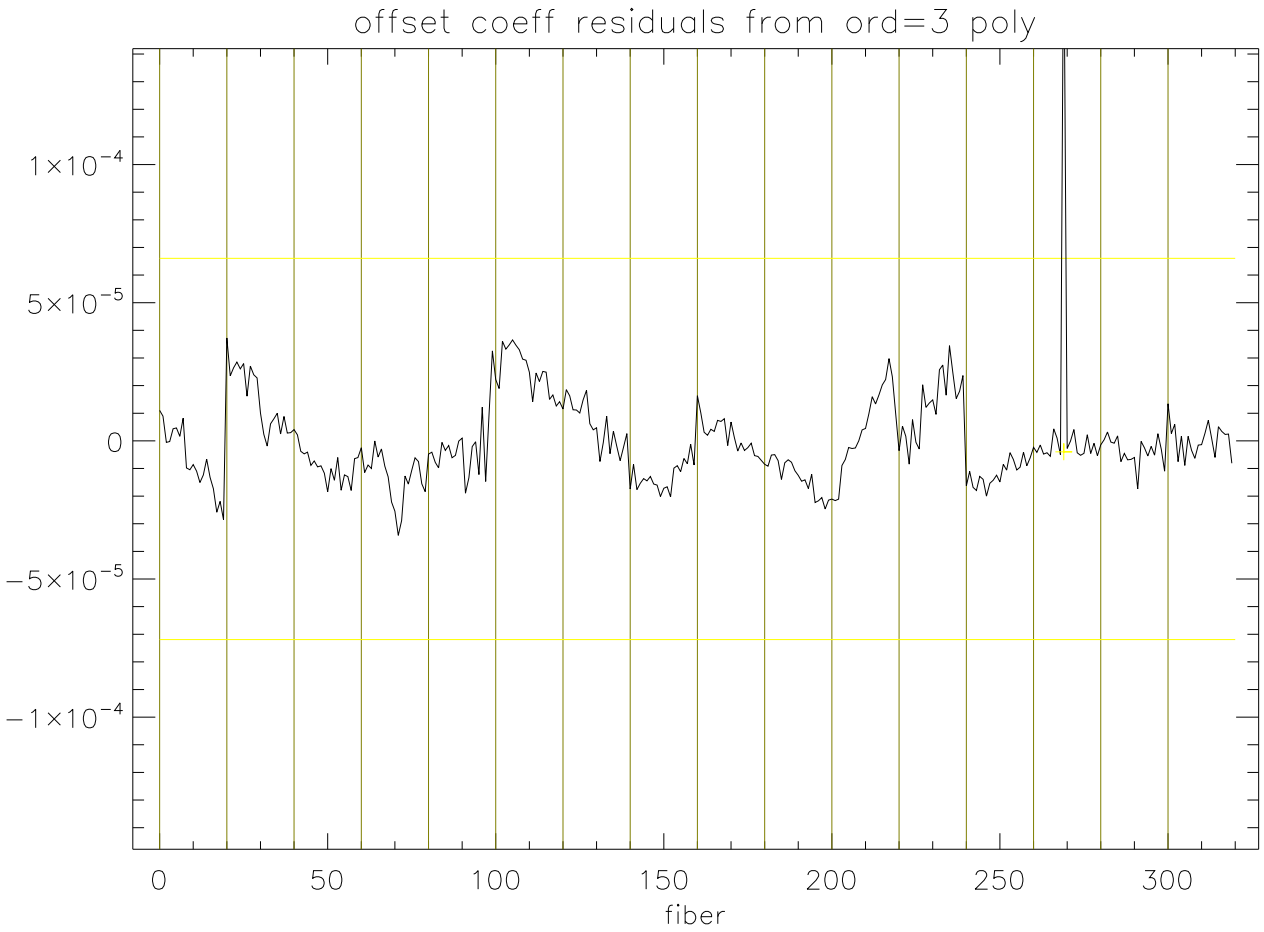

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

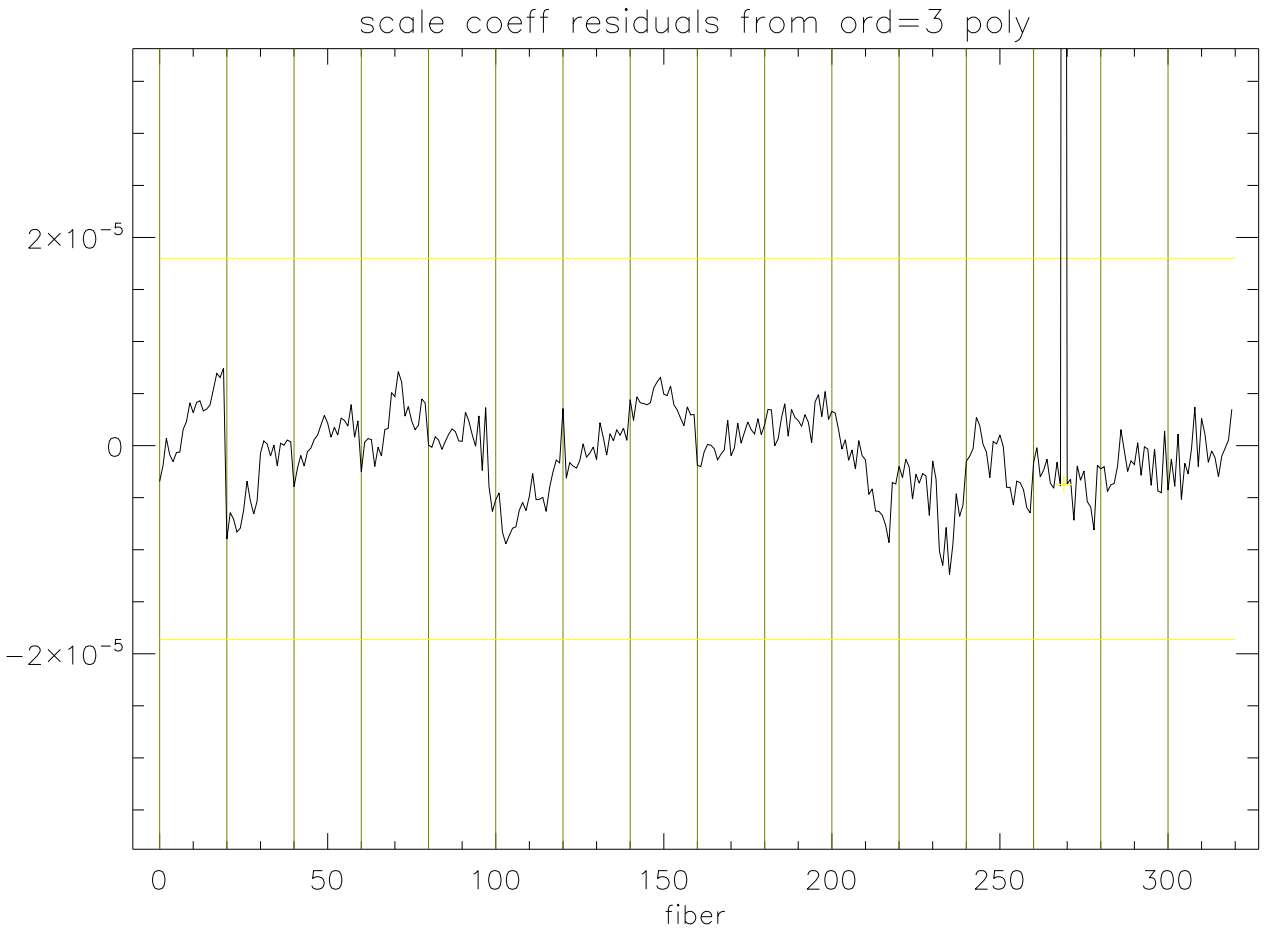

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

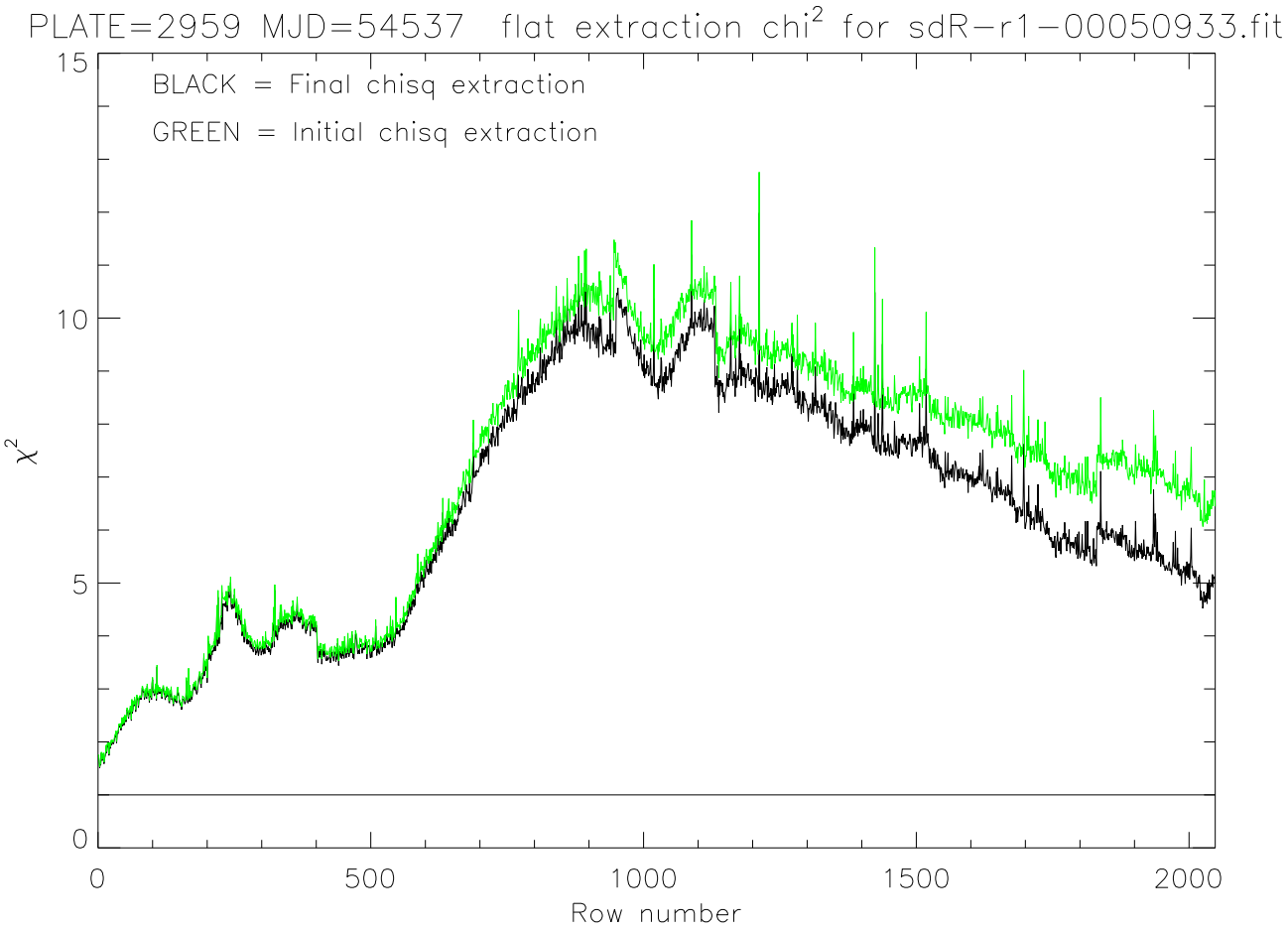

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

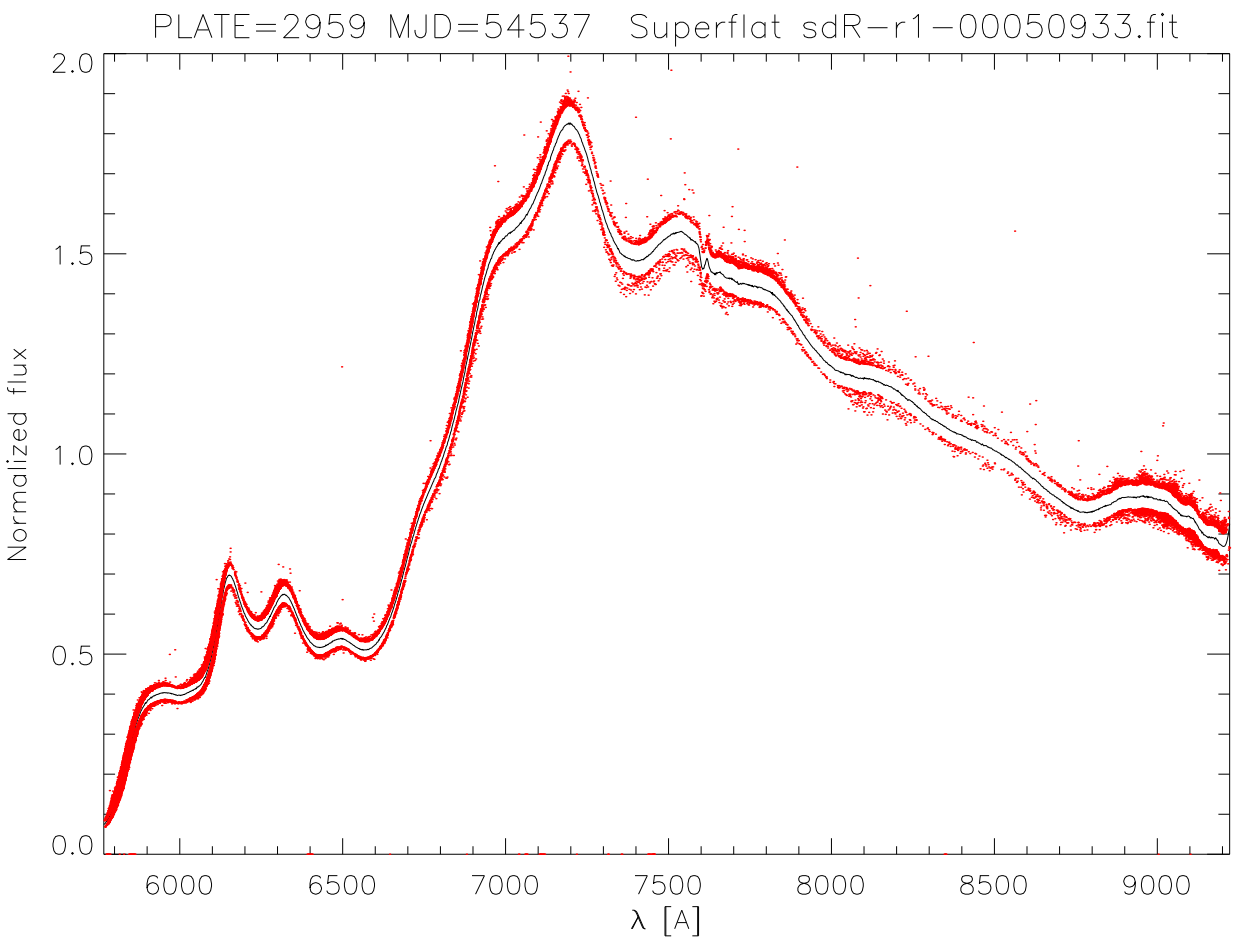

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

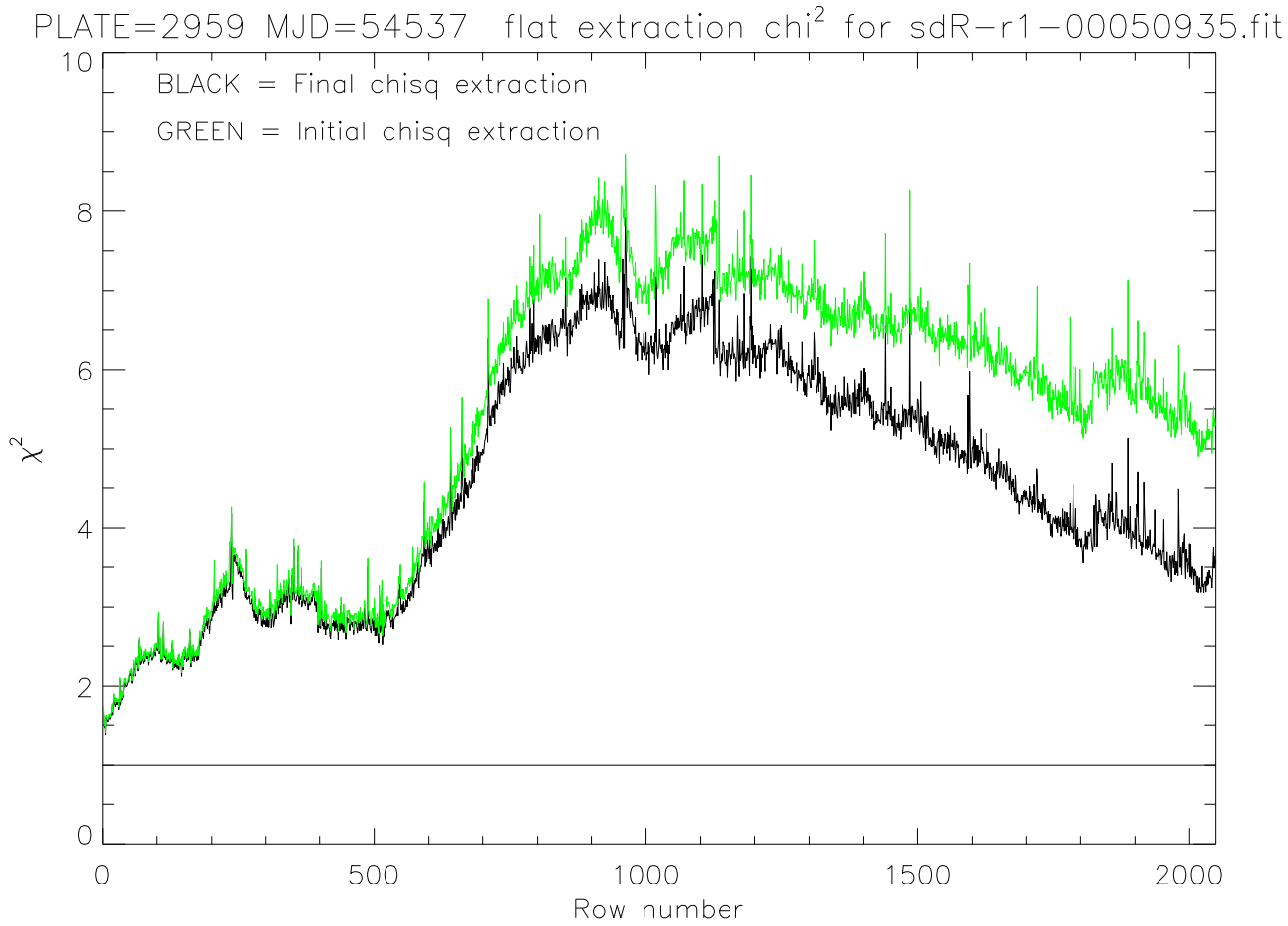

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

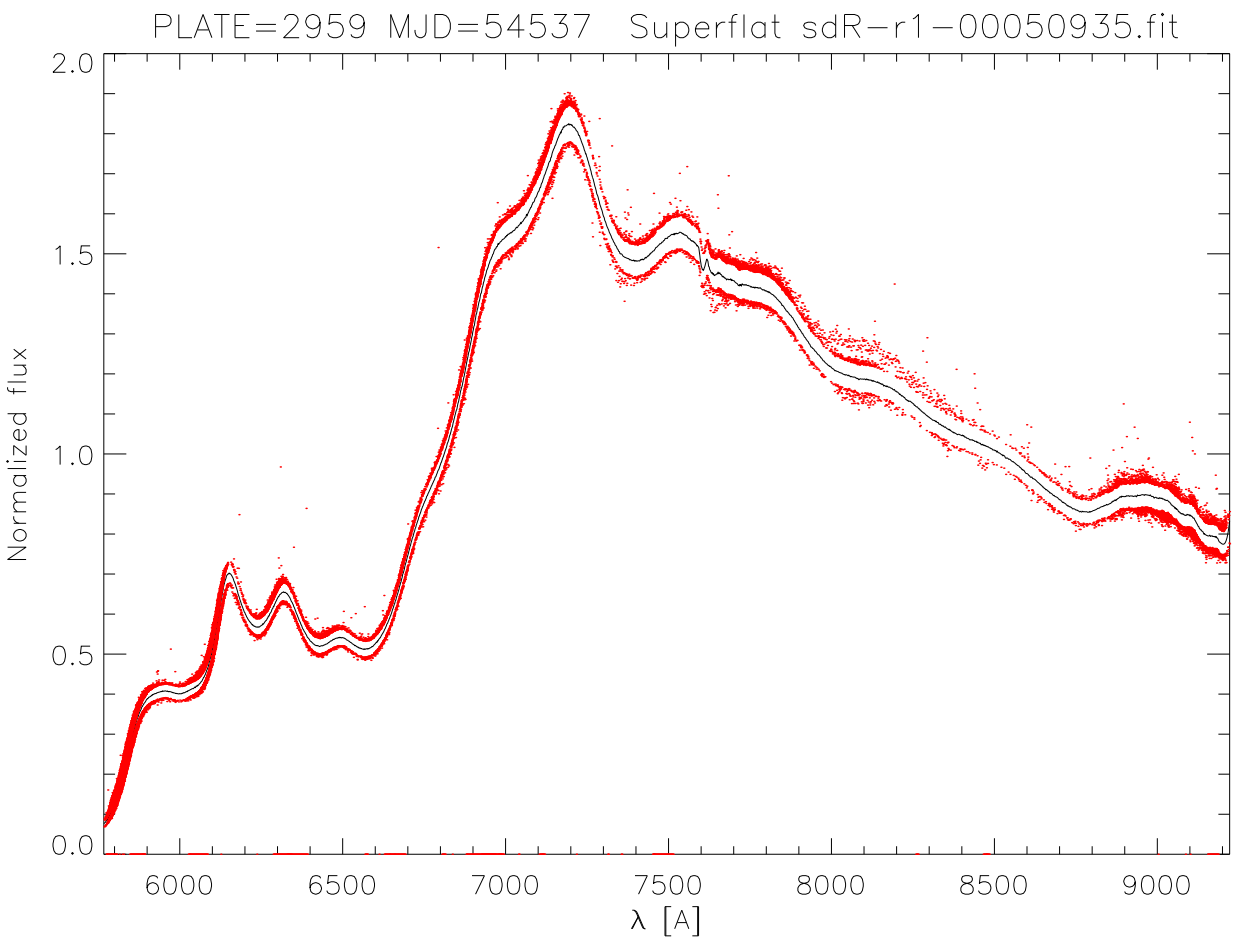

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

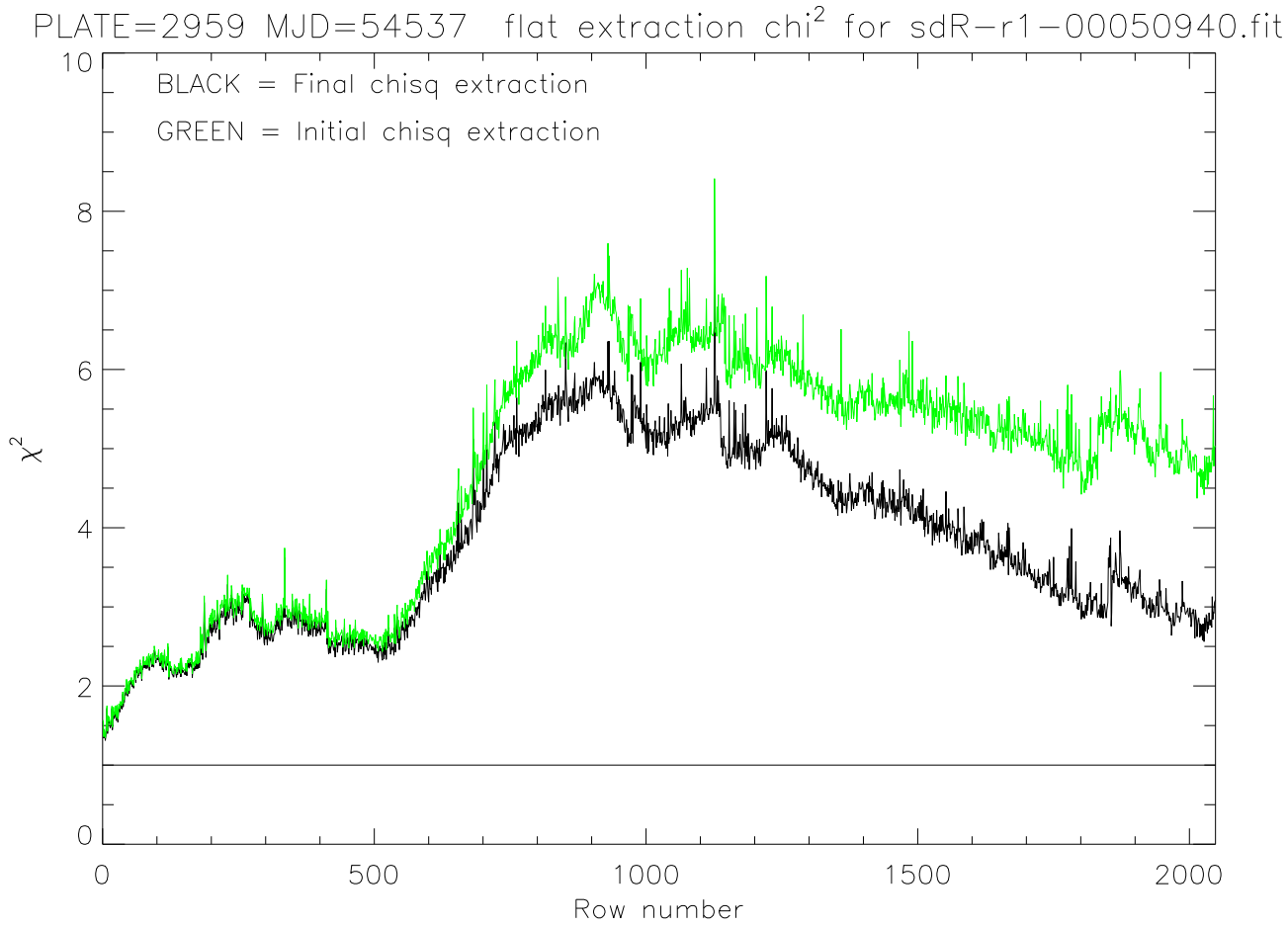

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

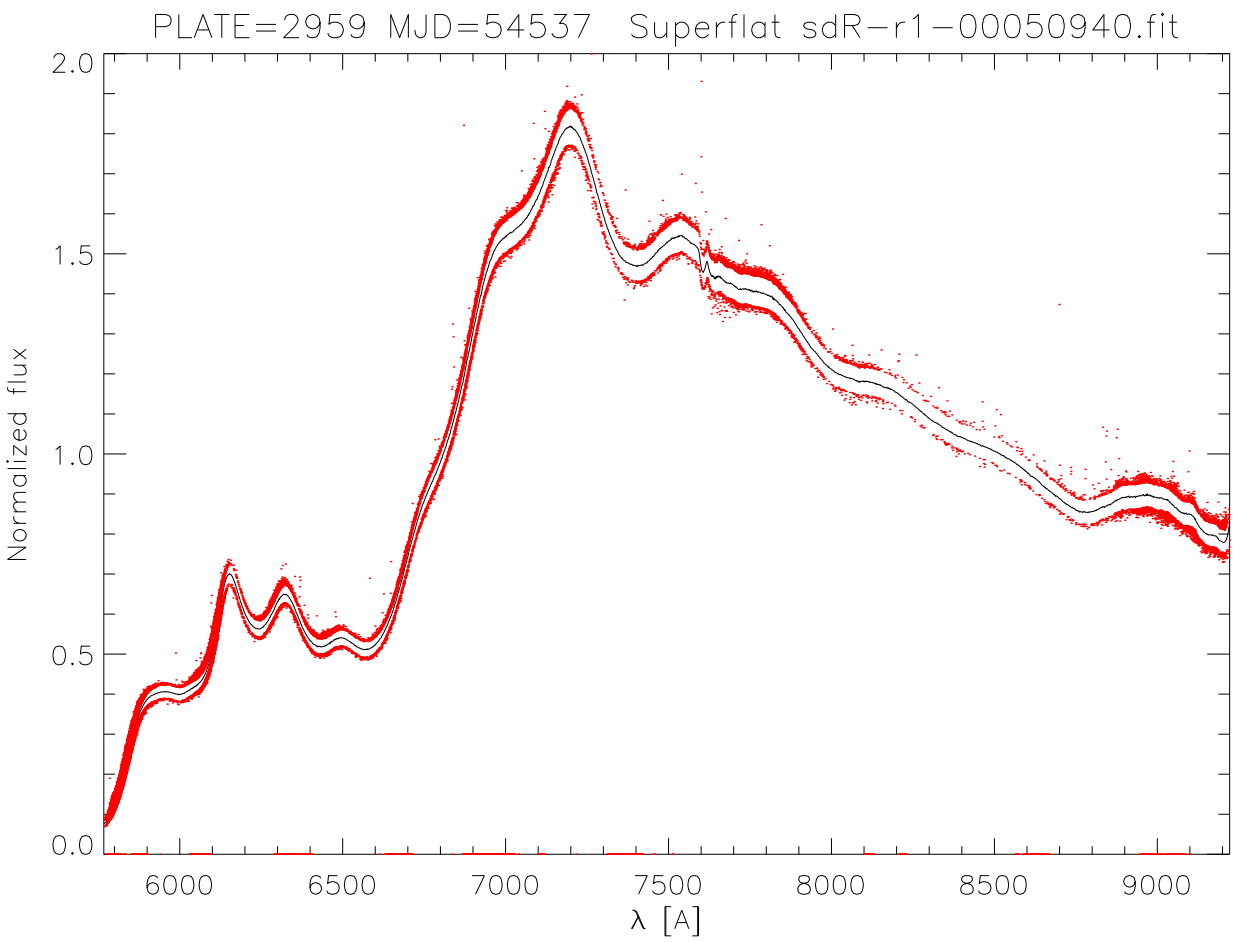

PLATE=2959 MJD=54537 flat extraction chi^2 for sdR−r1−00050933.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
5
10
15
0
500
1000
1500
2000
Row number

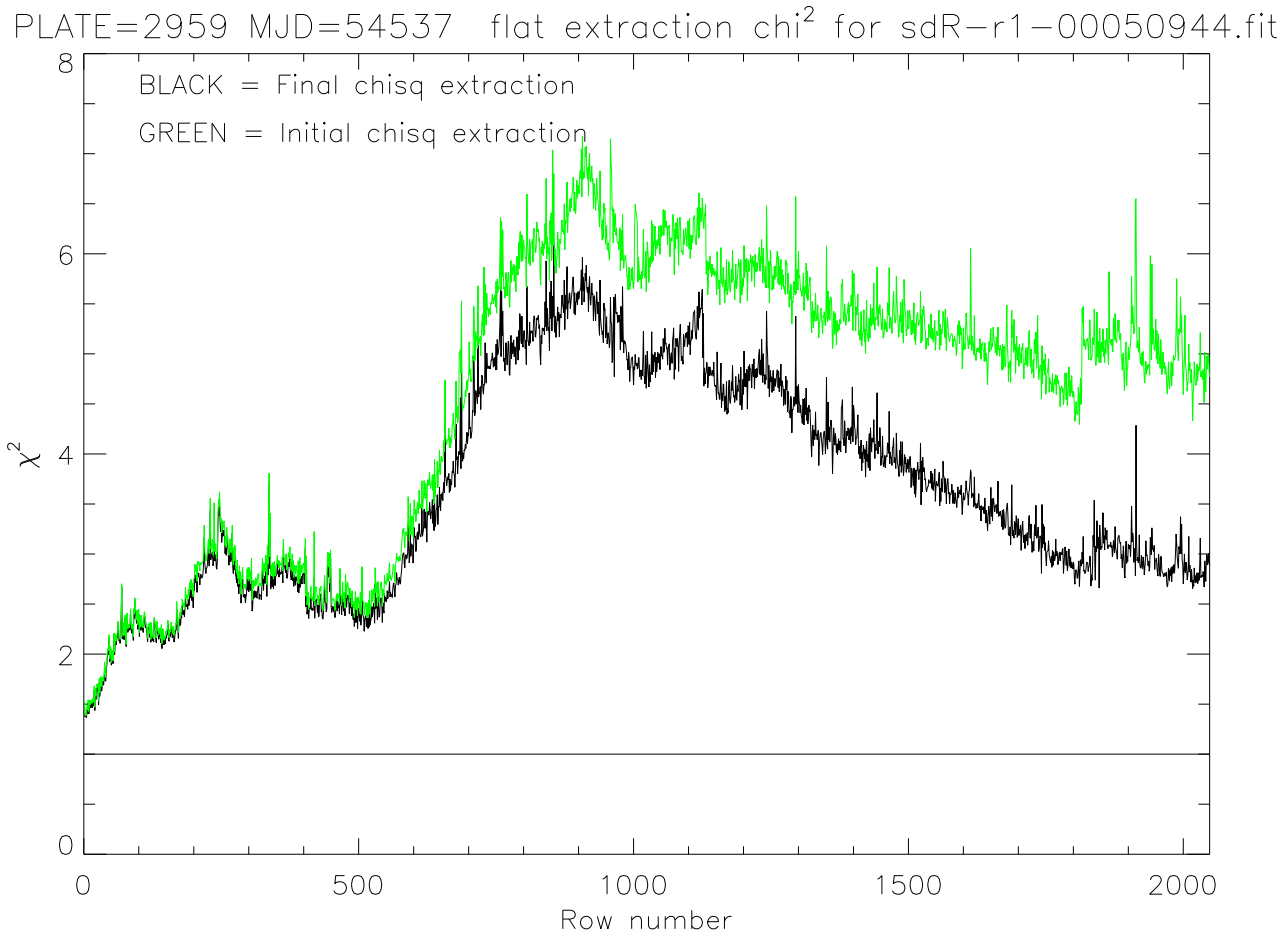

PLATE=2959 MJD=54537 Superflat sdR-r1-00050933.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

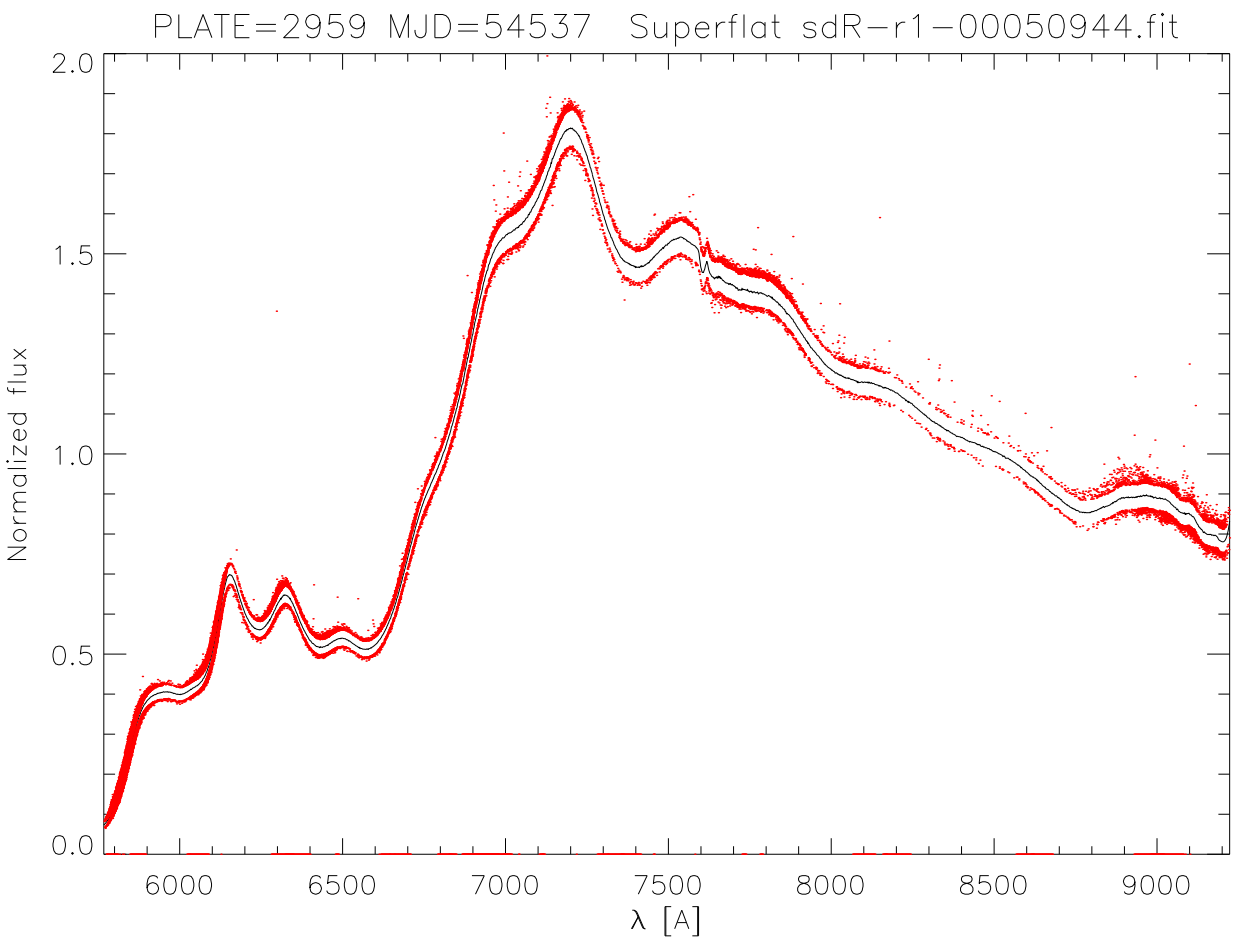

PLATE=2959 MJD=54537 flat extraction chi^2 for sdR−r1−00050935.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

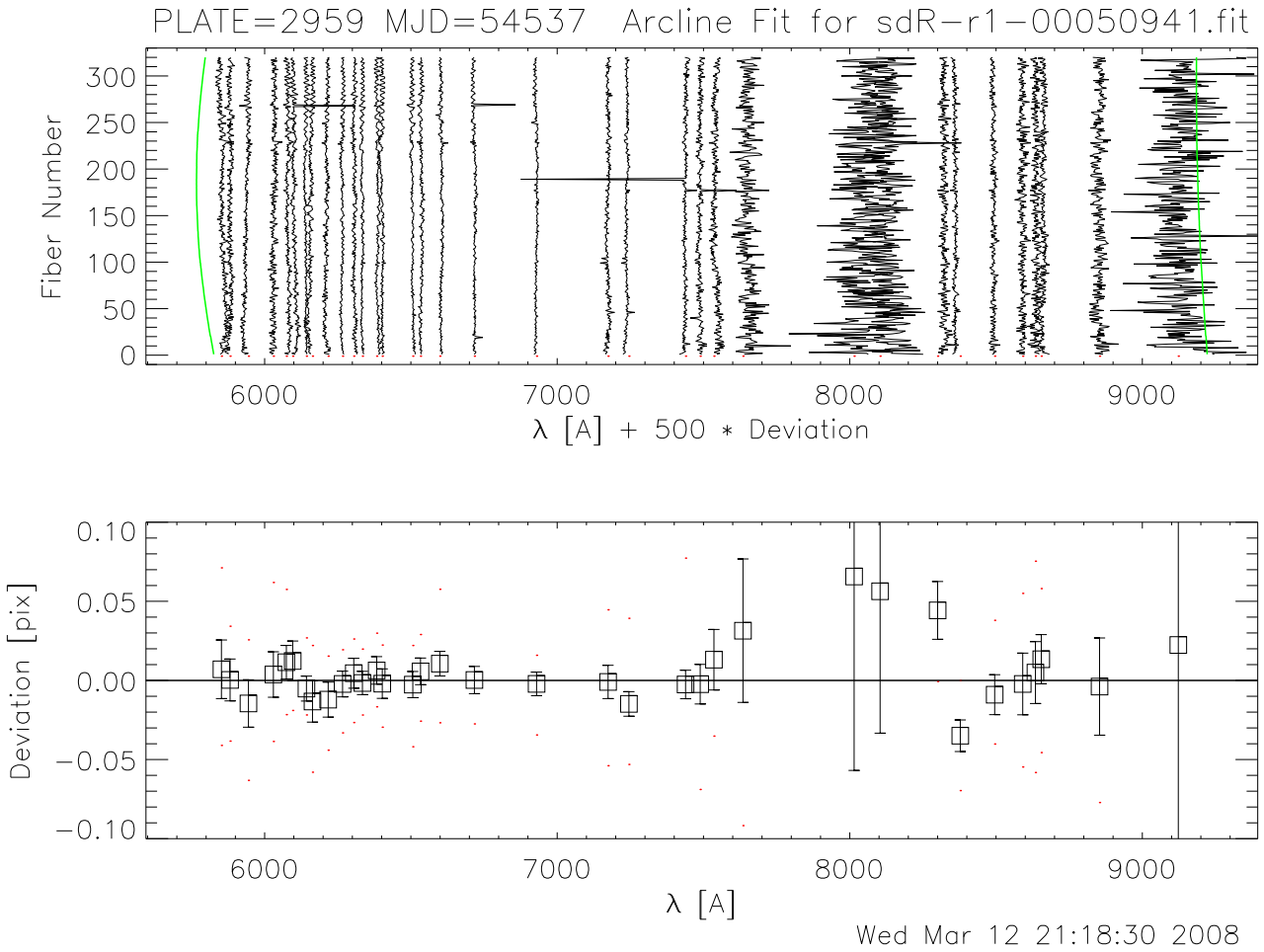

PLATE=2959 MJD=54537 Superflat sdR-r1-00050935.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

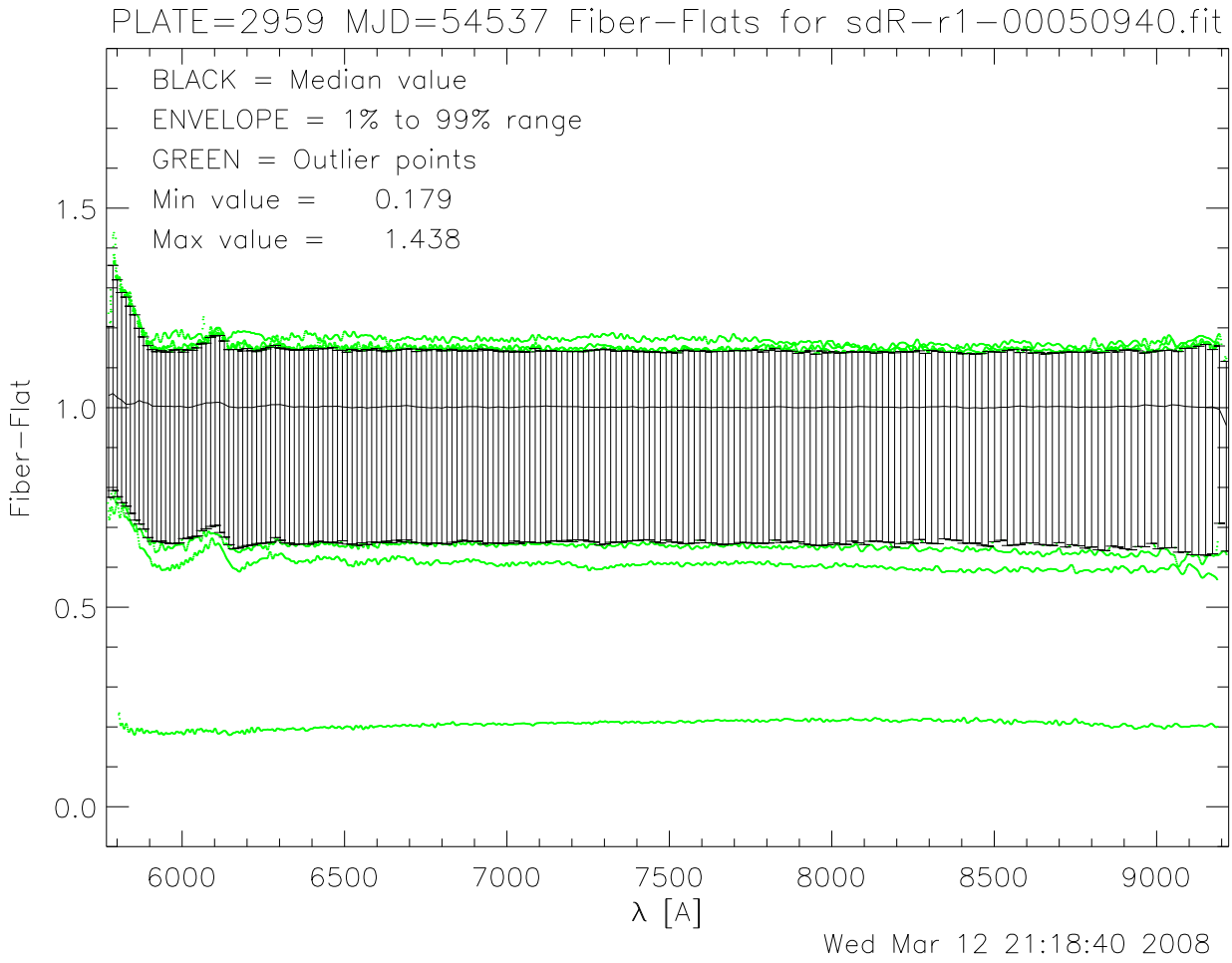

PLATE=2959 MJD=54537 flat extraction chi^2 for sdR−r1−00050940.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

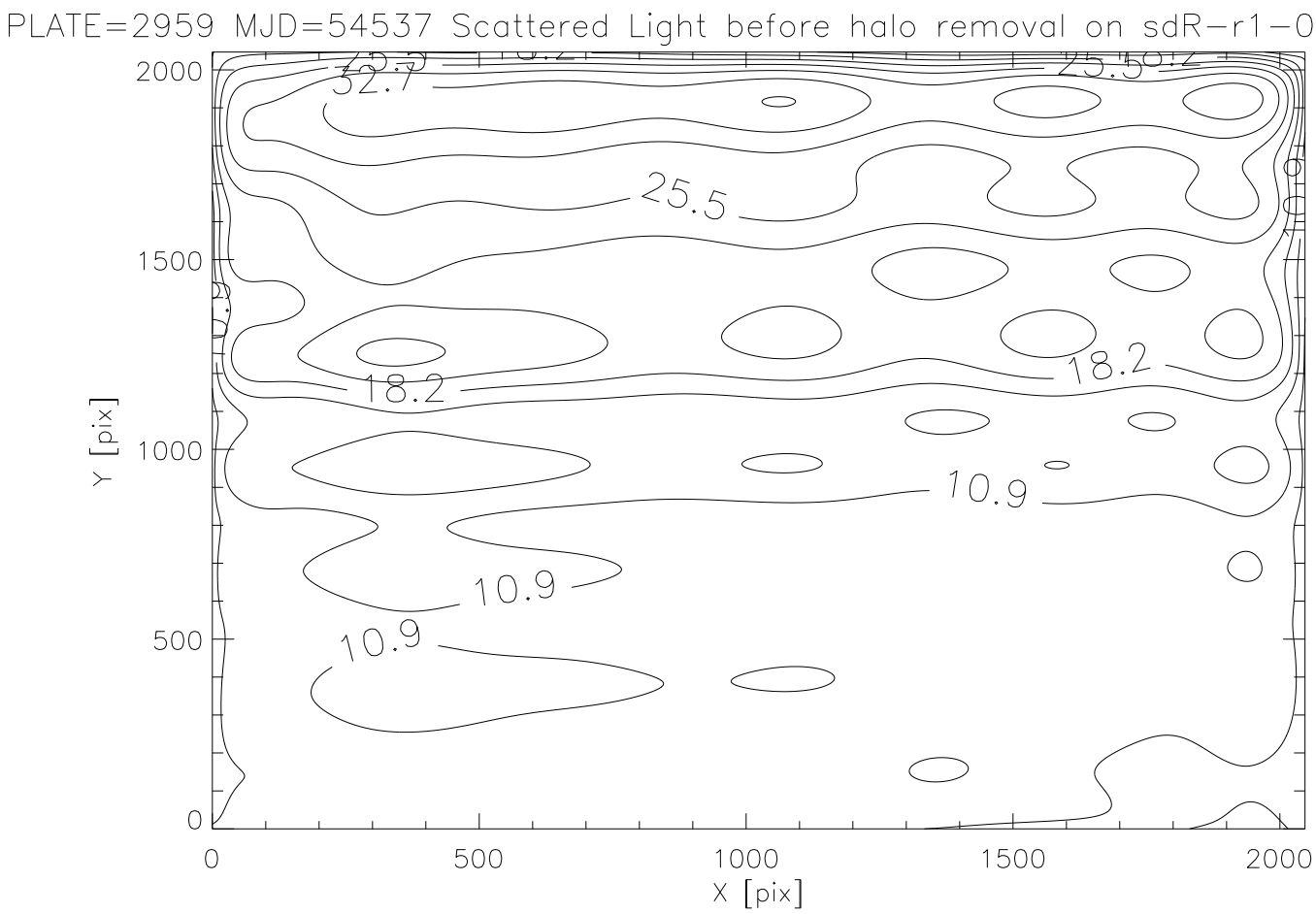

PLATE=2959 MJD=54537 Superflat sdR-r1-00050940.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

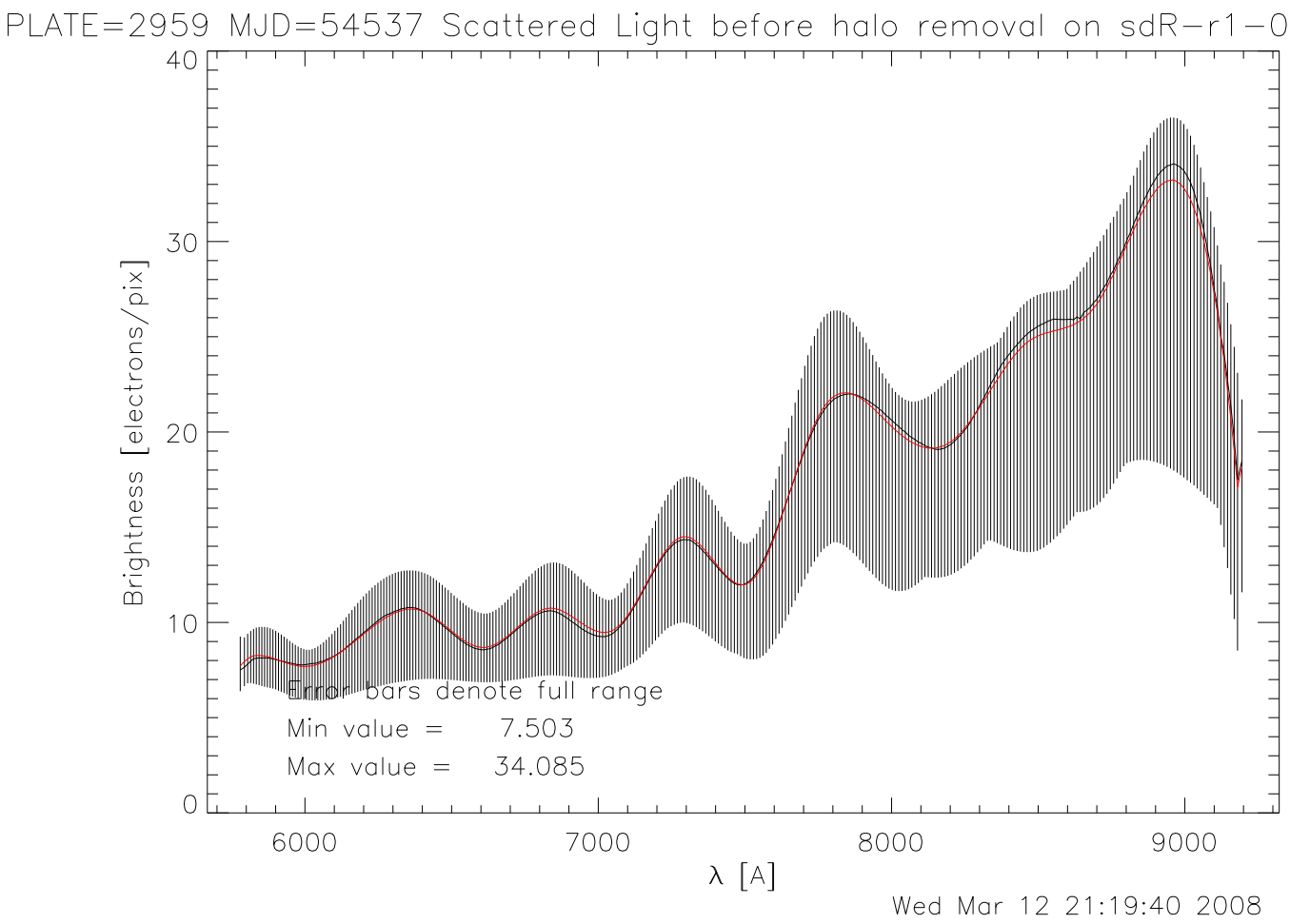

PLATE=2959 MJD=54537 flat extraction chi^2 for sdR−r1−00050944.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

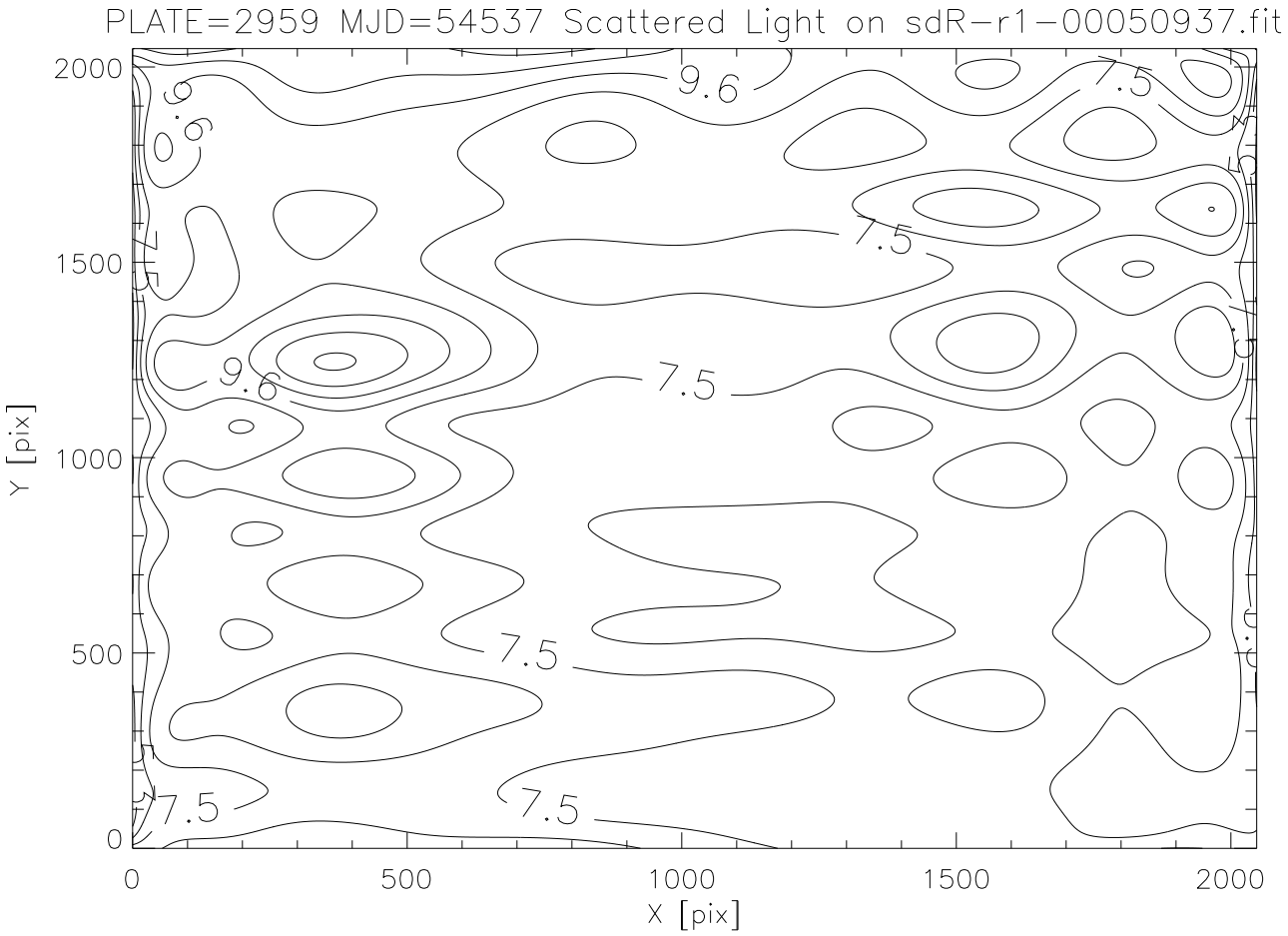

PLATE=2959 MJD=54537 Superflat sdR-r1-00050944.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

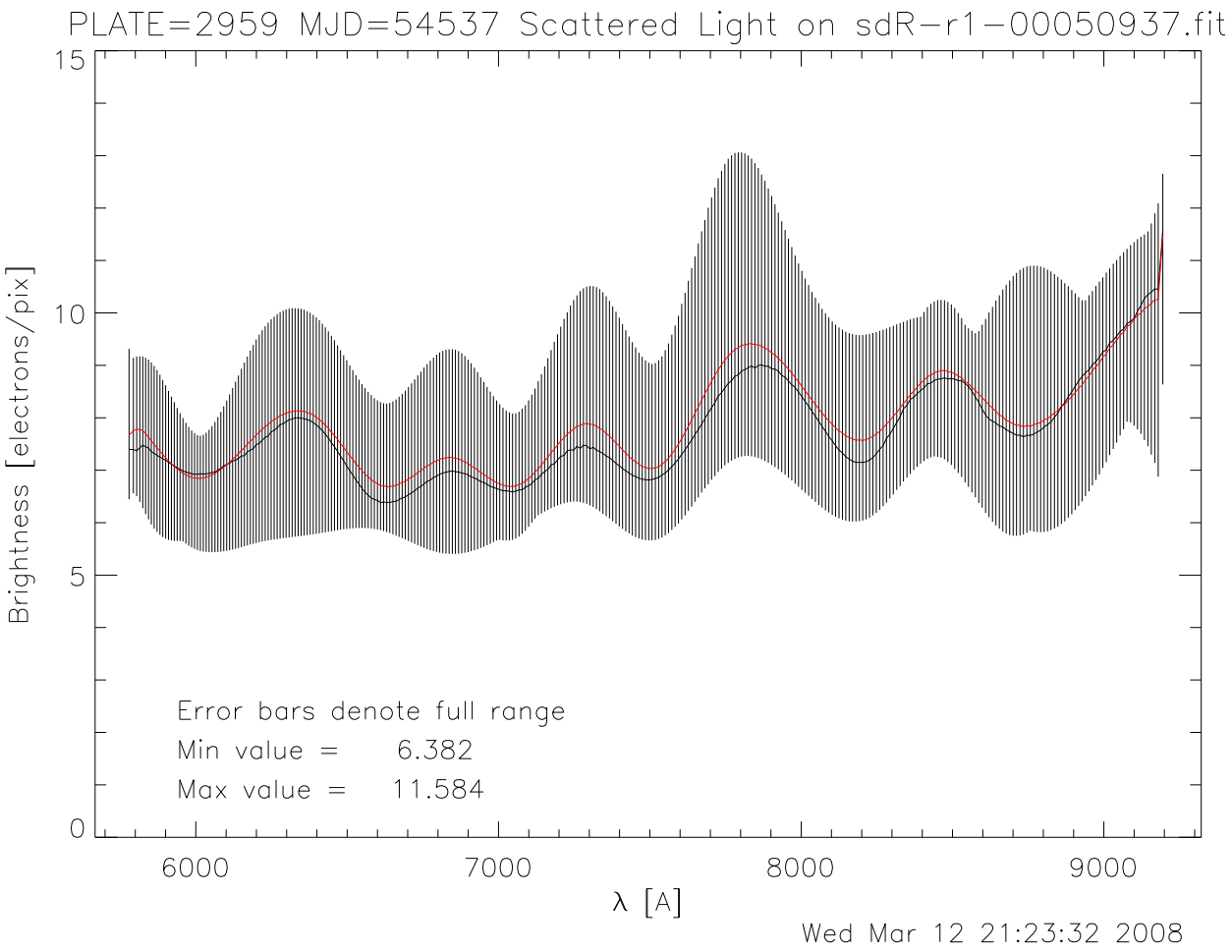

PLATE=2959 MJD=54537 Arcline Fit for sdR-r1-00050941.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Wed Mar 12 21:18:30 2008

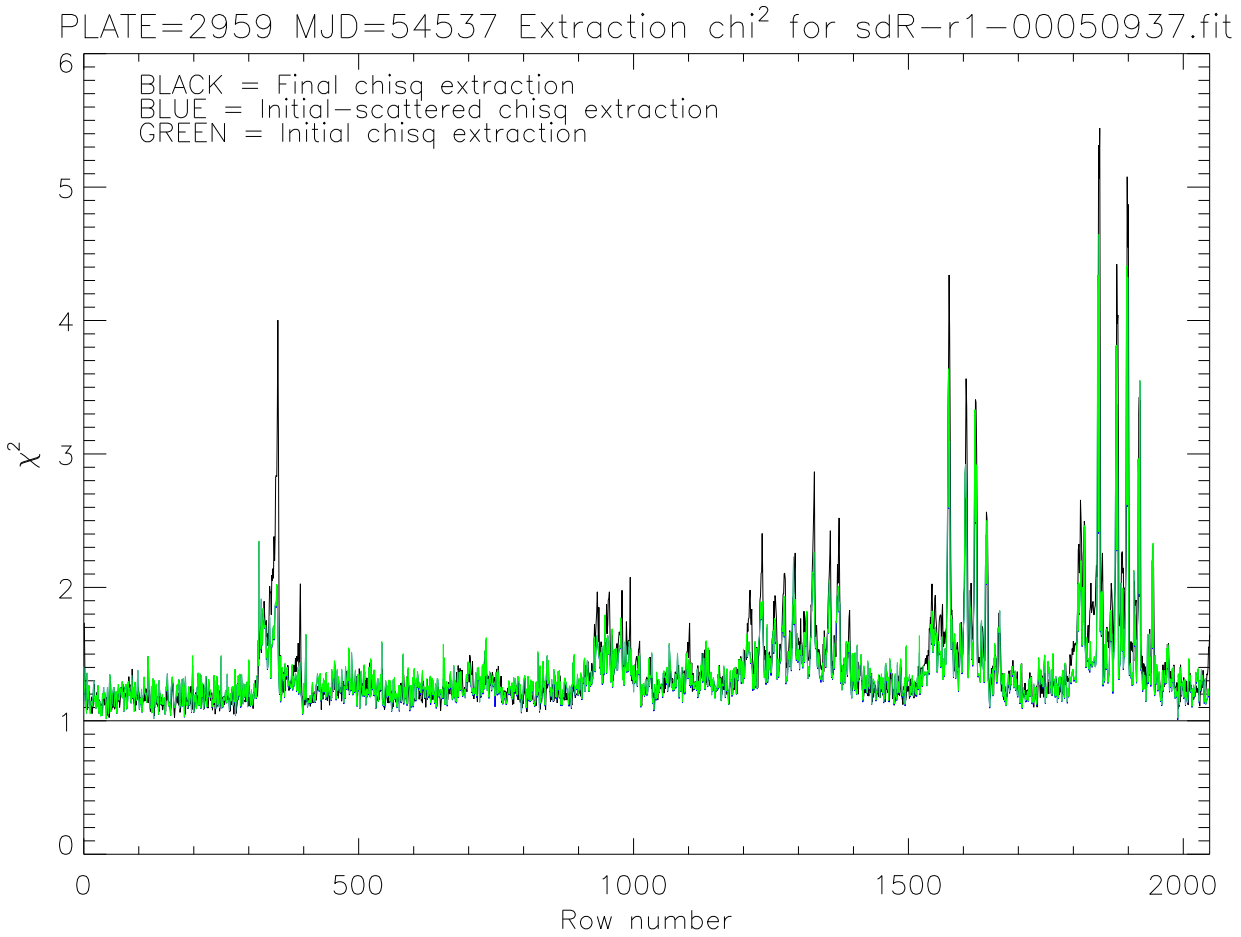

PLATE=2959 MJD=54537 Fiber−Flats for sdR−r1−00050940.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.179
Max value = 1.438
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 12 21:18:40 2008

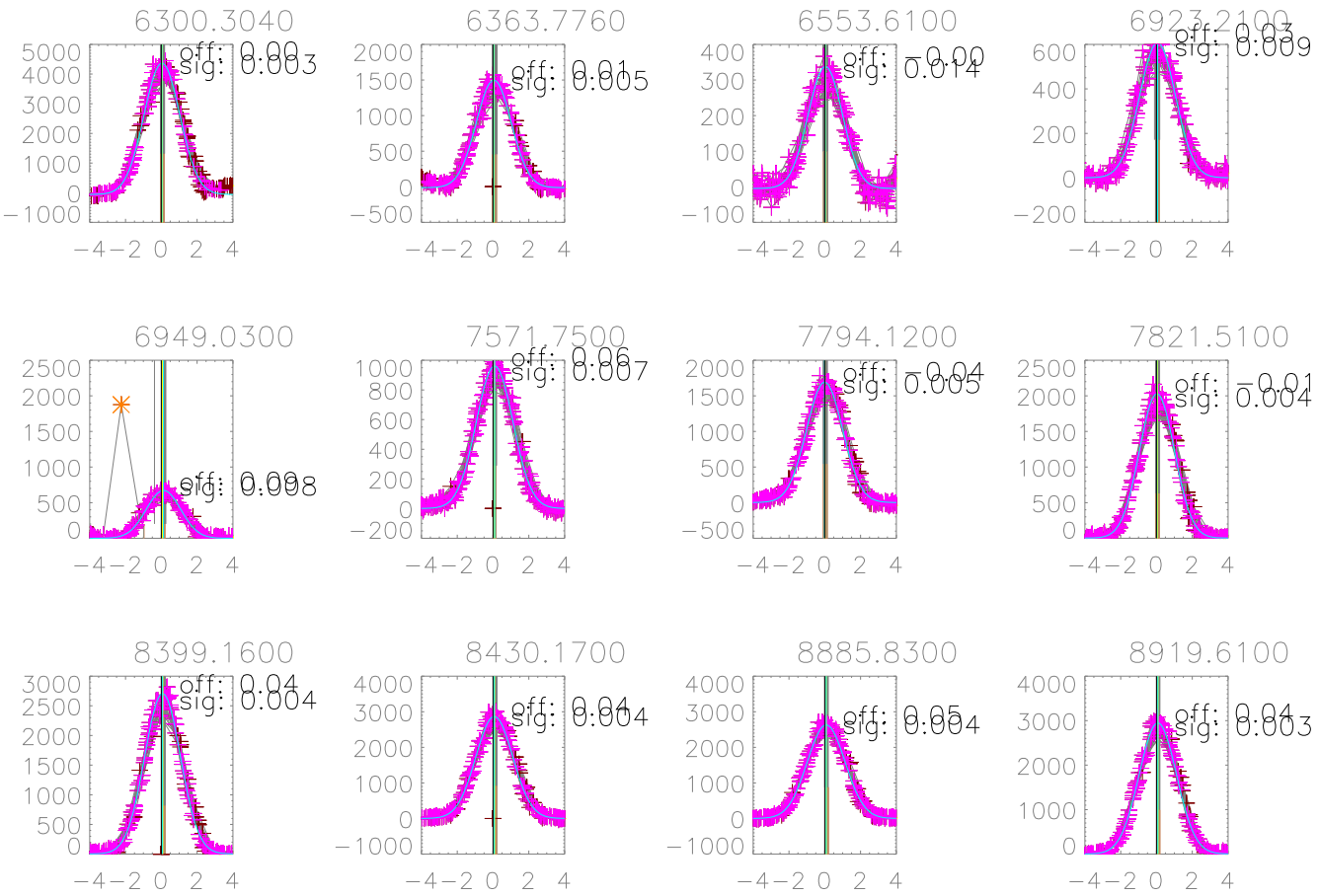

PLATE=2959 MJD=54537 Scattered Light before halo removal on sdR-r1-00050937.fi
32.7
25.5
18.2
10.9
Y [pix]
X [pix]
0
500
1000
1500
2000

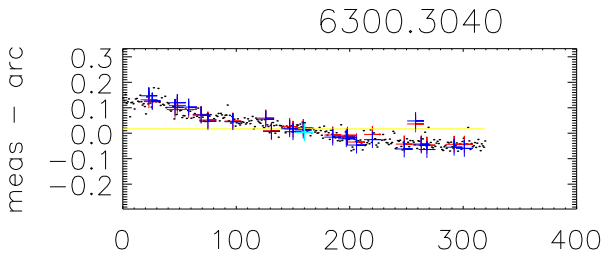

PLATE=2959 MJD=54537 Scattered Light before halo removal on sdR-r1-00050937.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.503
Max value = 34.085
Wed Mar 12 21:19:40 2008

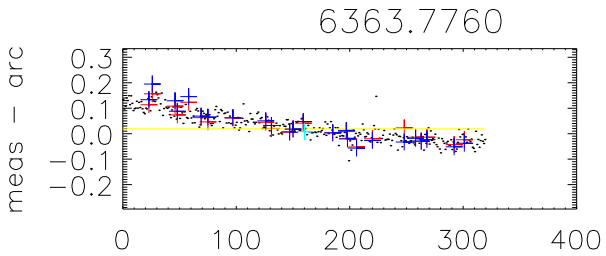

PLATE=2959 MJD=54537 Scattered Light on sdR−r1−00050937.fit
9.6
7.5
Y [pix]
X [pix]
0
500
1000
1500
2000

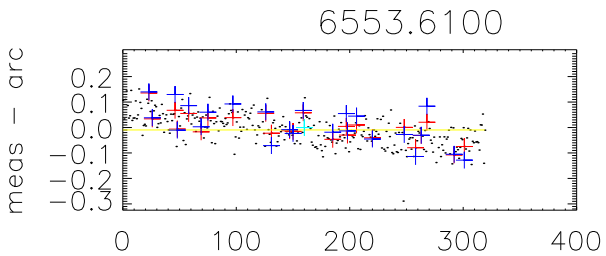

PLATE=2959 MJD=54537 Scattered Light on sdR-r1-00050937.fit
Brightness [electrons/pix]
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 6.382
Max value = 11.584
Wed Mar 12 21:23:32 2008

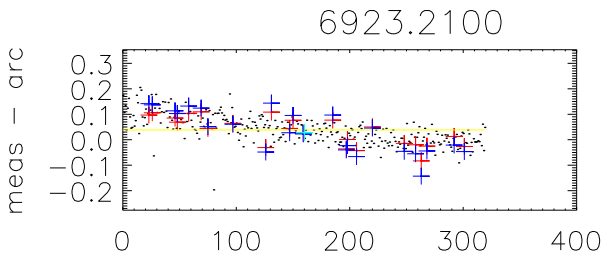

PLATE=2959 MJD=54537 Extraction chi^2 for sdR−r1−00050937.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

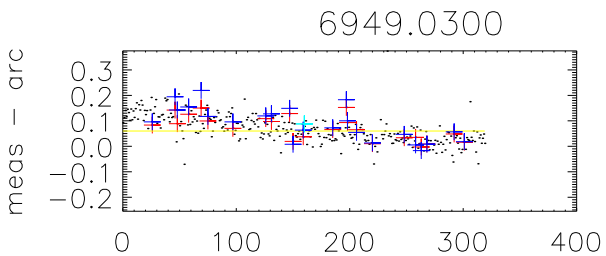

6300.3040
off: 0.00
sig: 0.003
6363.7760
off: 0.01
sig: 0.005
6553.6100
off: −0.00
sig: 0.014
6923.2100
off: −0.03
sig: 0.009
6949.0300
off: 0.00
sig: 0.008
7571.7500
off: 0.06
sig: 0.007
7794.1200
off: −0.04
sig: 0.005
7821.5100
off: −0.01
sig: 0.004
8399.1600
off: 0.04
sig: 0.004
8430.1700
off: 0.04
sig: 0.004
8885.8300
off: 0.05
sig: 0.004
8919.6100
off: 0.04
sig: 0.003

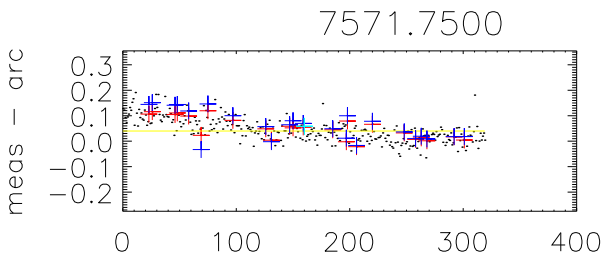

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

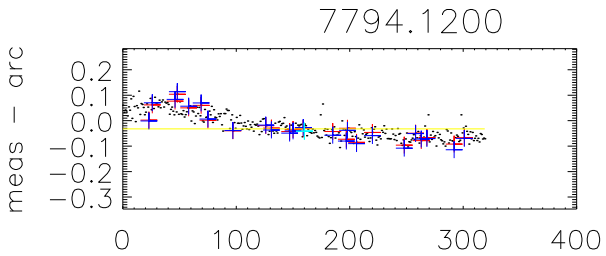

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

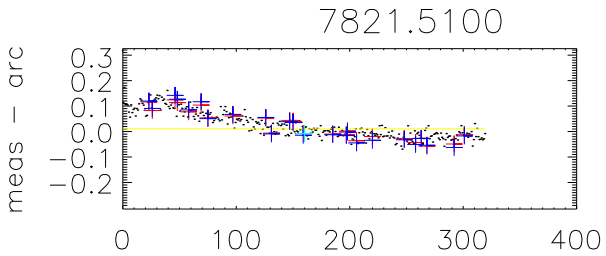

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

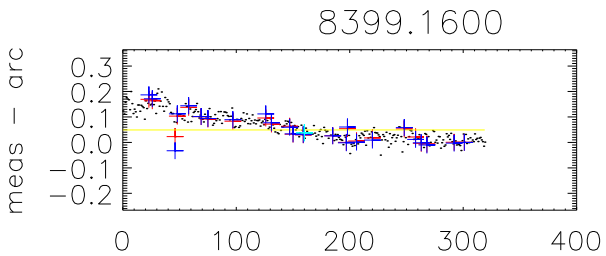

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

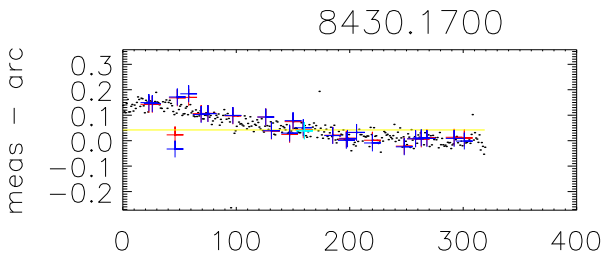

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

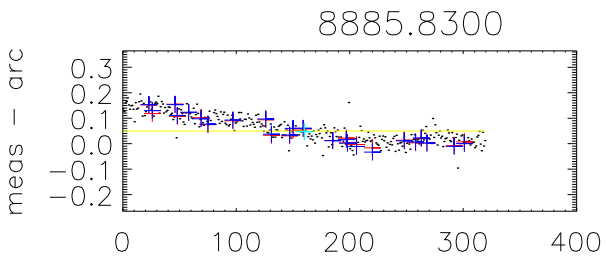

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

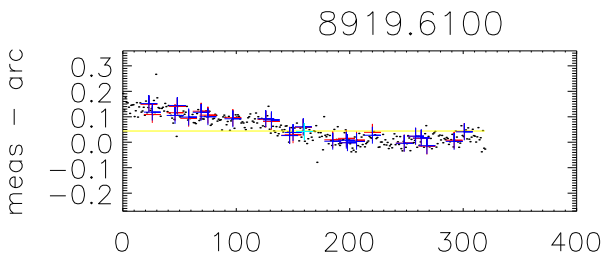

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

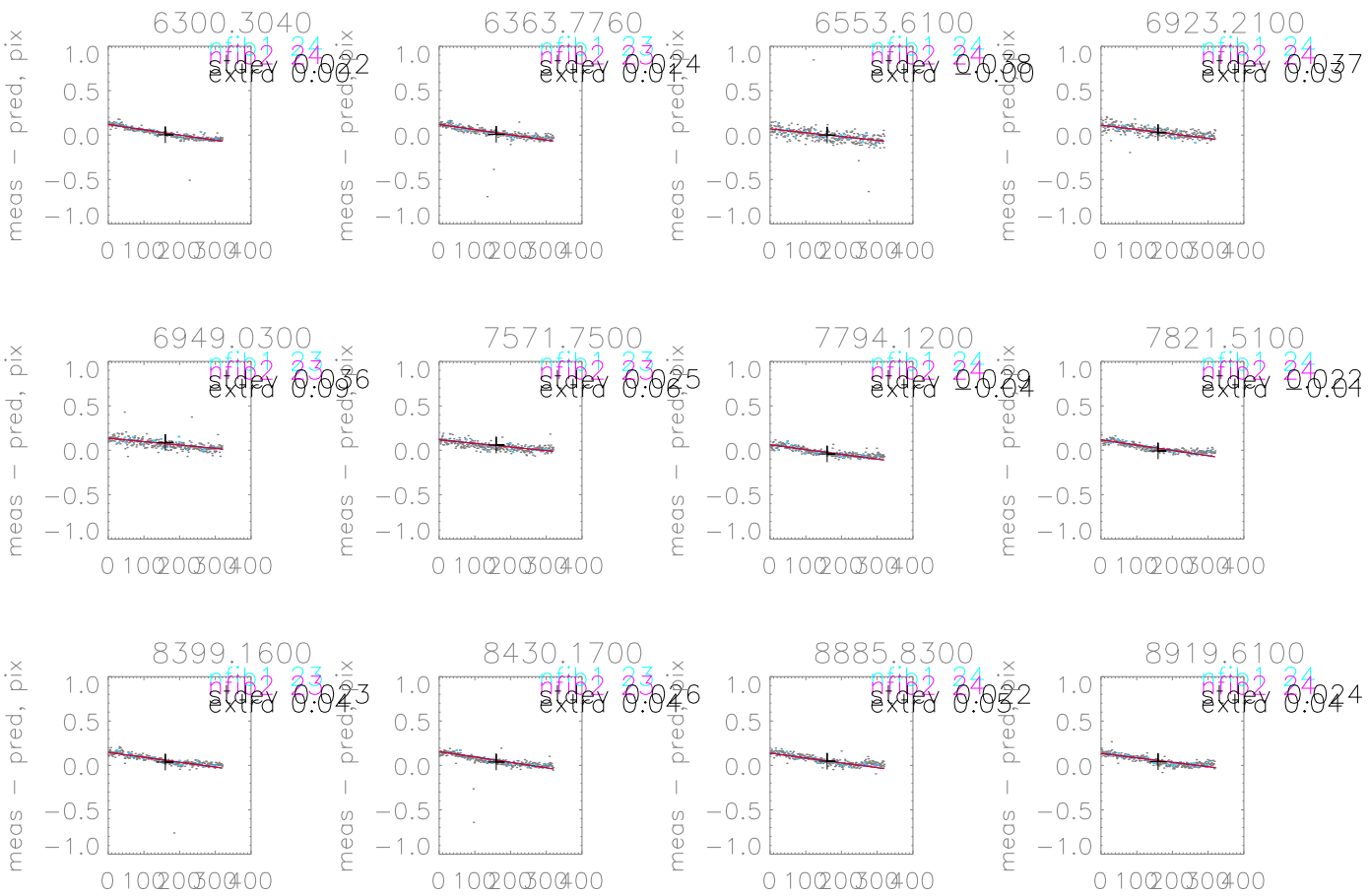

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

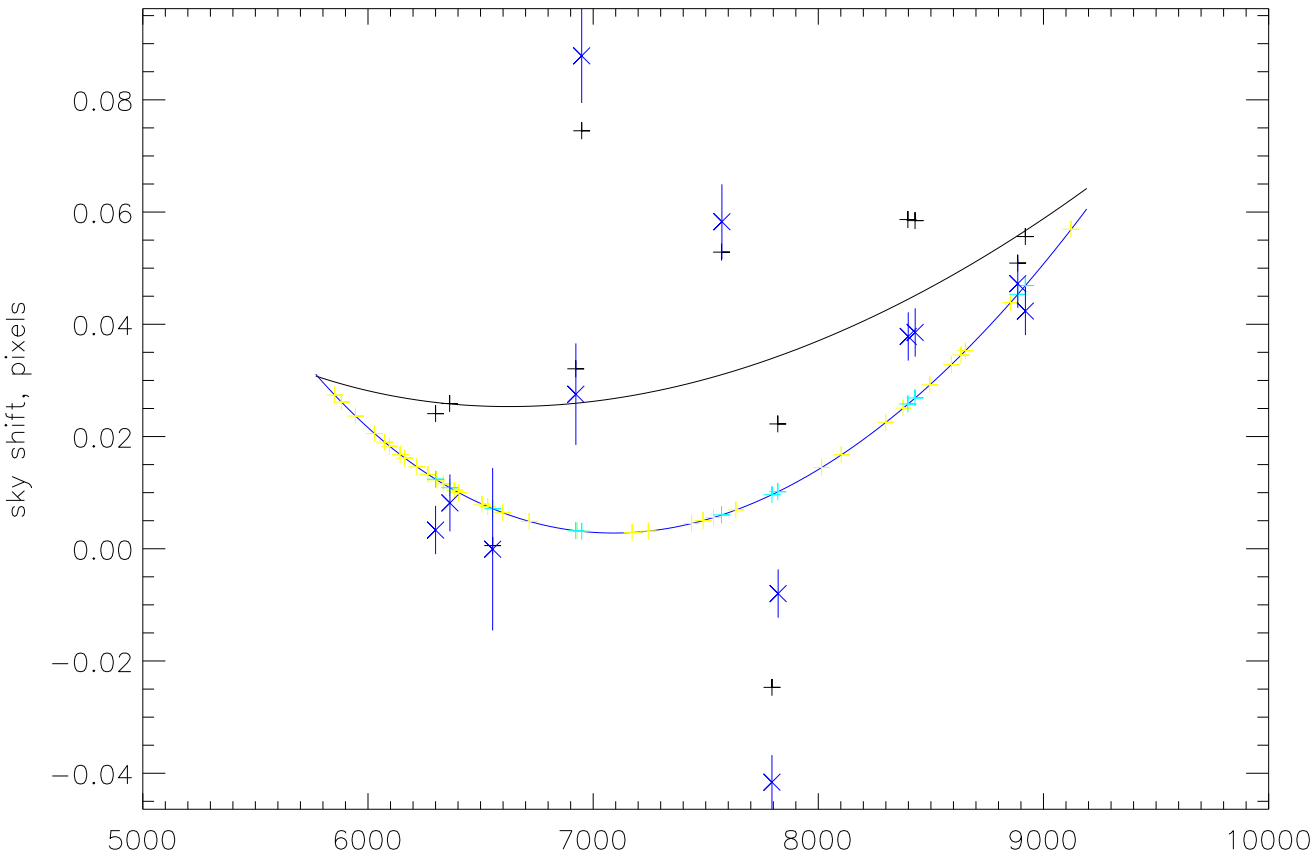

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

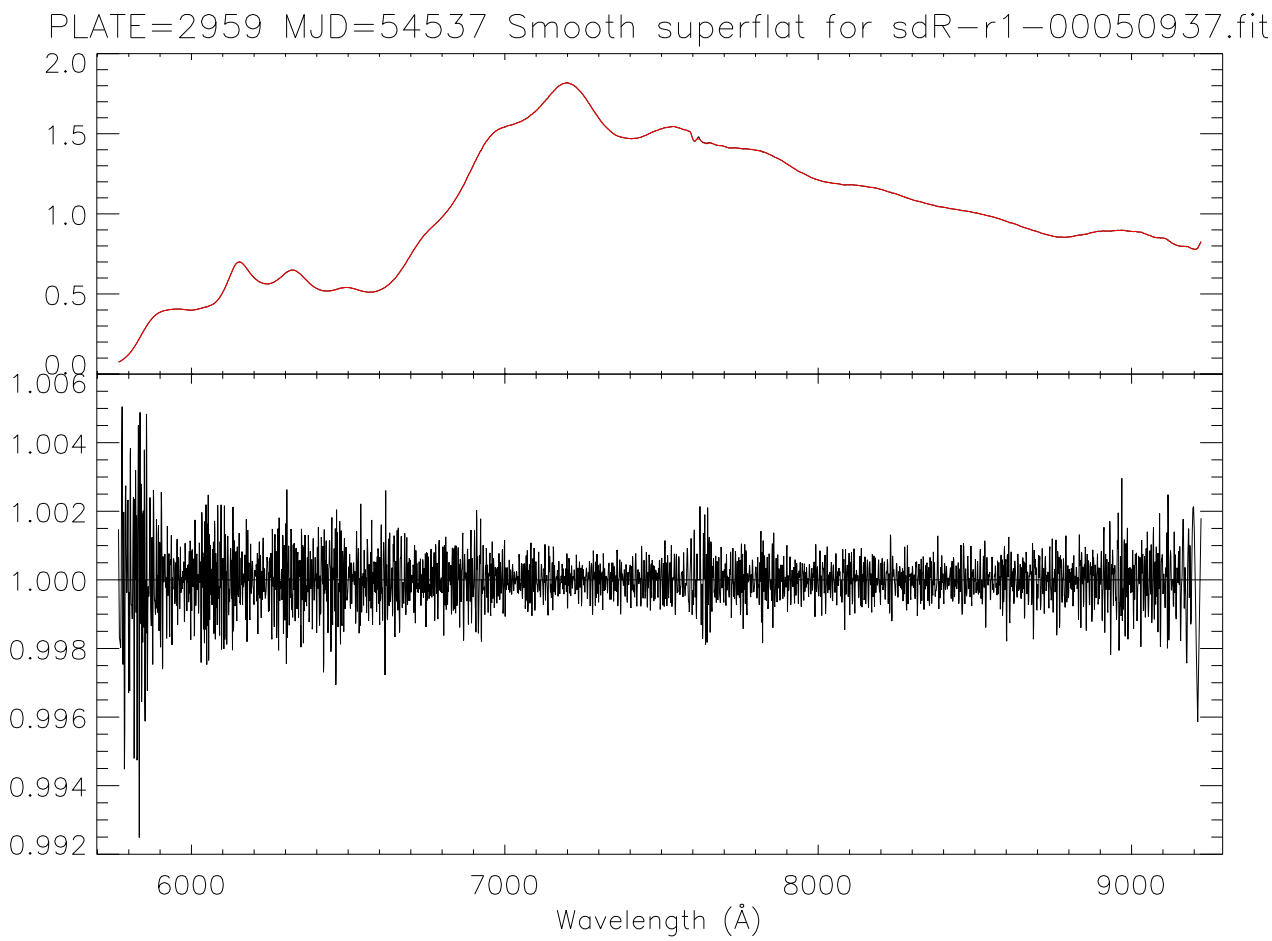

8885.8300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

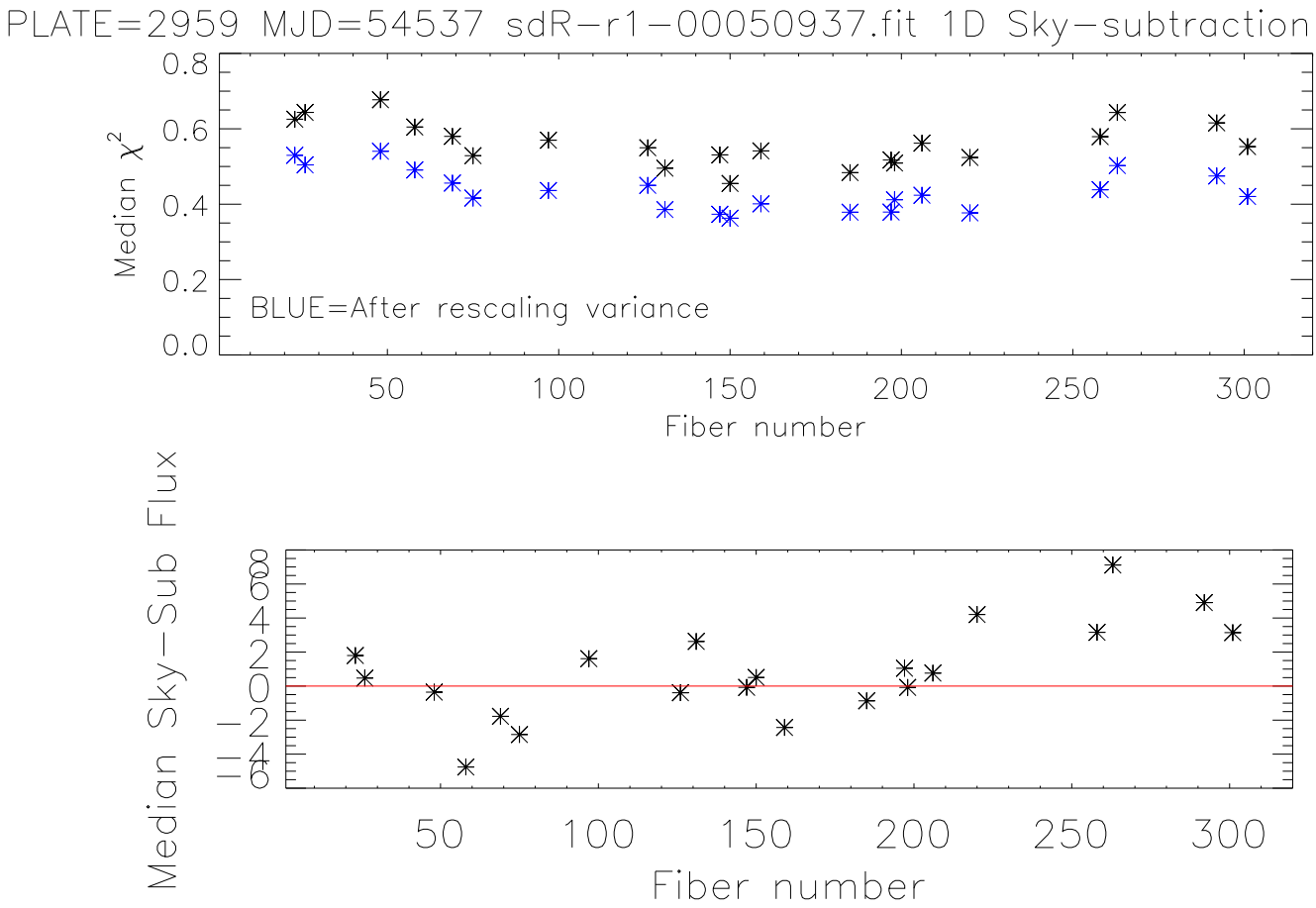

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


6300.3040
mfib1 23
mfib2 24
stdev 0.022
extra 0.06
6363.7760
mfib1 23
mfib2 24
stdev 0.024
extra 0.01
6553.6100
mfib1 24
mfib2 24
stdev 0.038
extra −0.00
6923.2100
mfib1 24
mfib2 24
stdev 0.037
extra 0.03
6949.0300
mfib1 23
mfib2 23
stdev 0.036
extra 0.09
7571.7500
mfib1 23
mfib2 23
stdev 0.025
extra 0.06
7794.1200
mfib1 24
mfib2 24
stdev 0.029
extra −0.04
7821.5100
mfib1 24
mfib2 24
stdev 0.022
extra −0.04
8399.1600
mfib1 23
mfib2 23
stdev 0.023
extra 0.04
8430.1700
mfib1 23
mfib2 23
stdev 0.026
extra 0.04
8885.8300
mfib1 24
mfib2 24
stdev 0.022
extra 0.03
8919.6100
mfib1 24
mfib2 24
stdev 0.024
extra 0.04
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

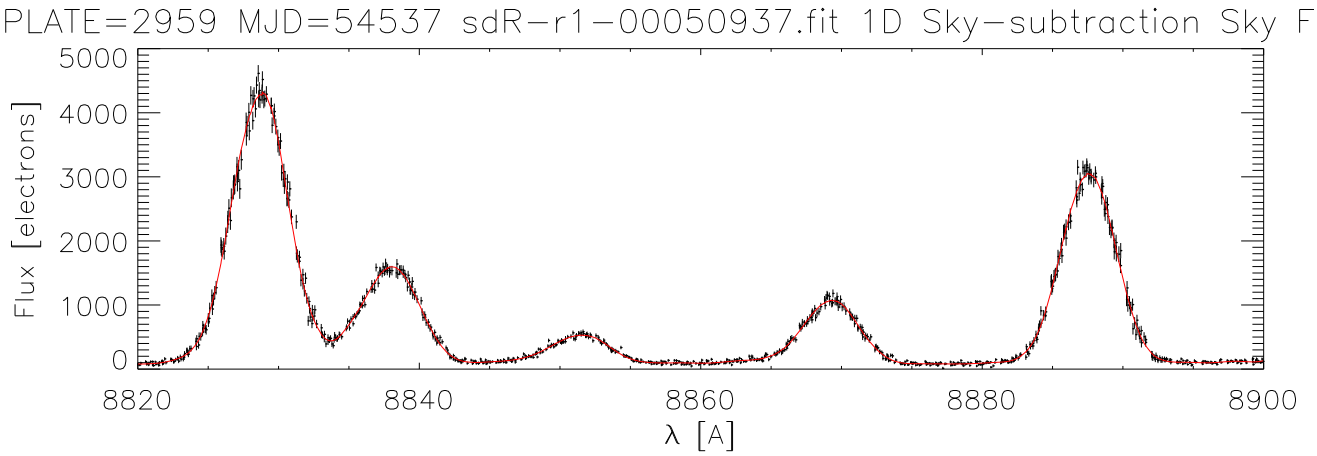

sky shift, pixels
0.08
0.06
0.04
0.02
0.00
−0.02
−0.04
5000
6000
7000
8000
9000
10000

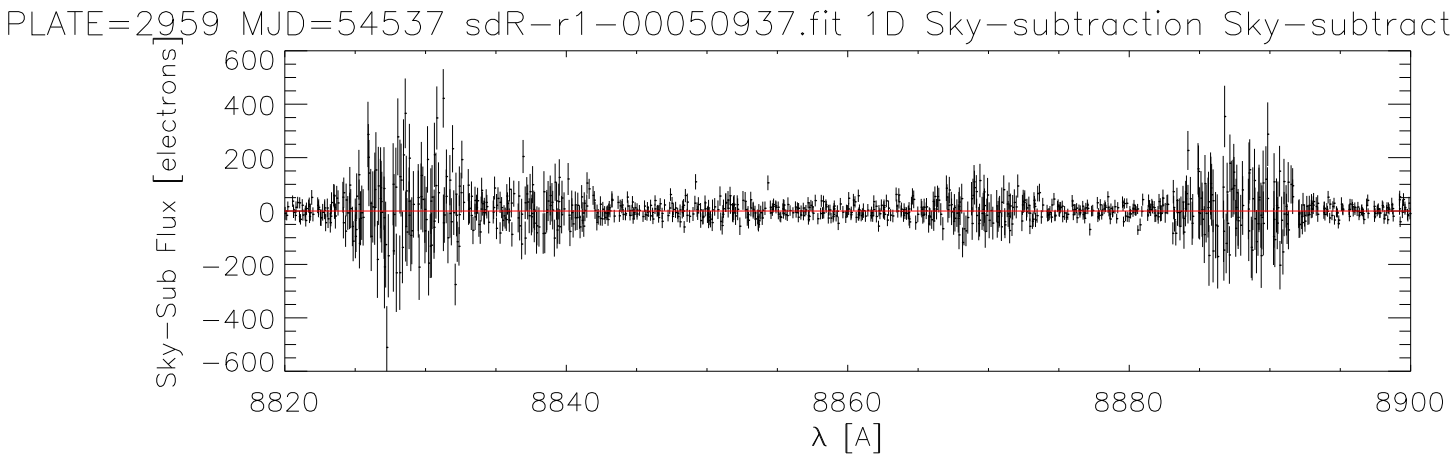
es= 0.0000

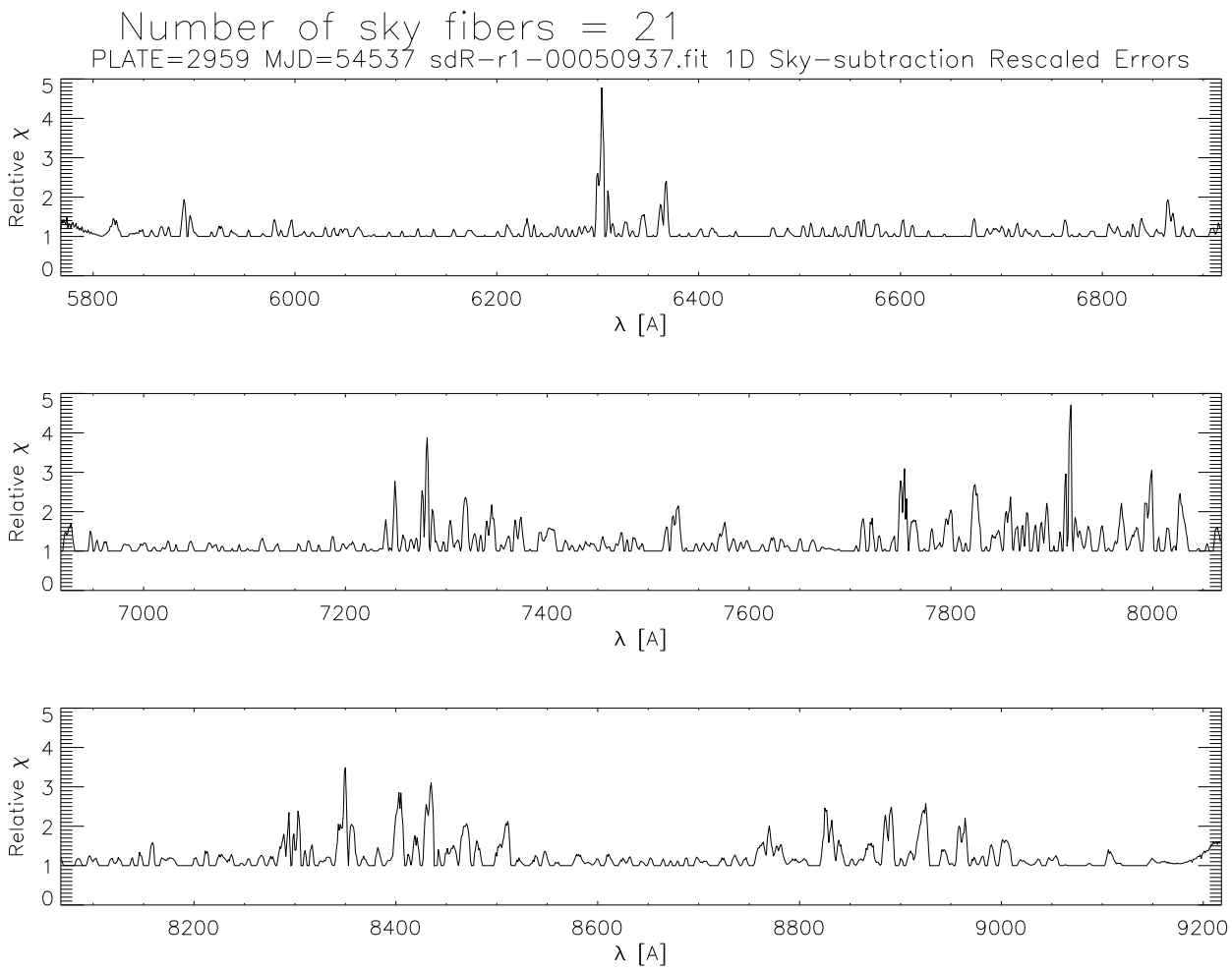

PLATE=2959 MJD=54537 Smooth superflat for sdR-r1-00050937.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
6000
7000
8000
9000
Wavelength (Å)

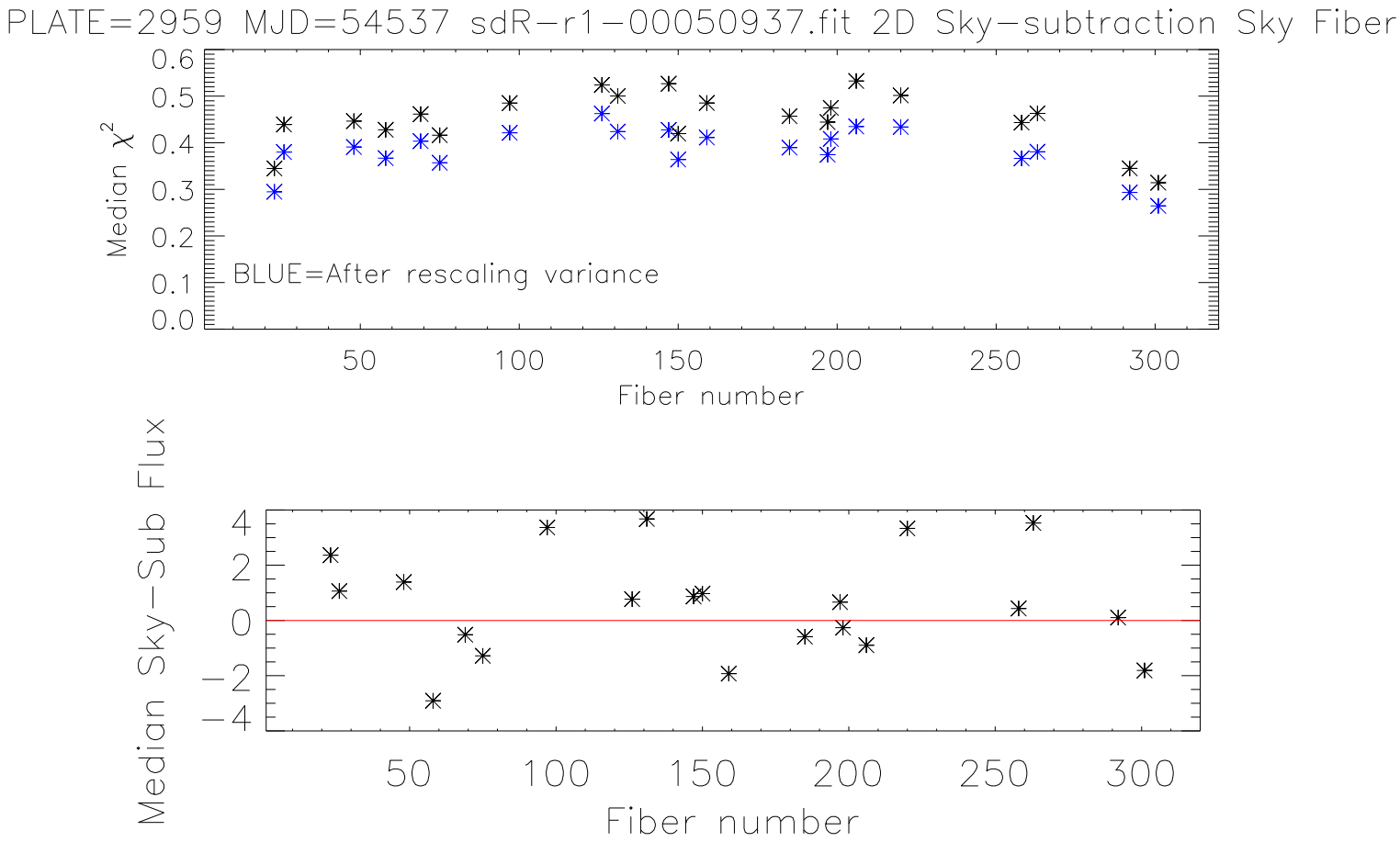

PLATE=2959 MJD=54537 sdR-r1-00050937.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

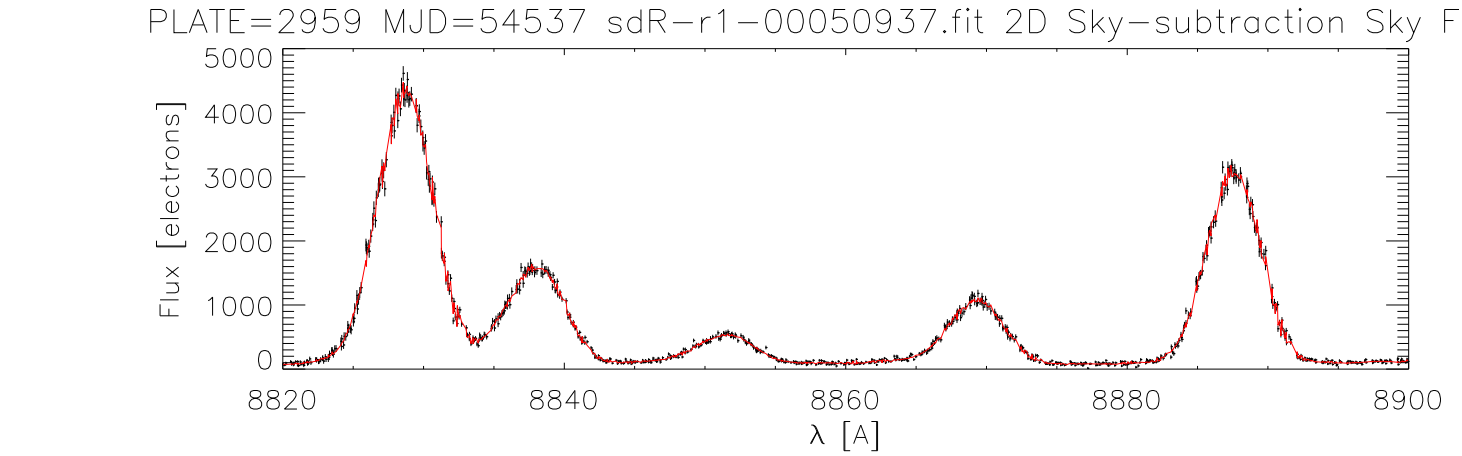
Median Sky-Sub Flux
-6e-11
-4e-11
-2e-11
0
2e-11
4e-11
6e-11
8e-11
50
100
150
200
250
300
Fiber number

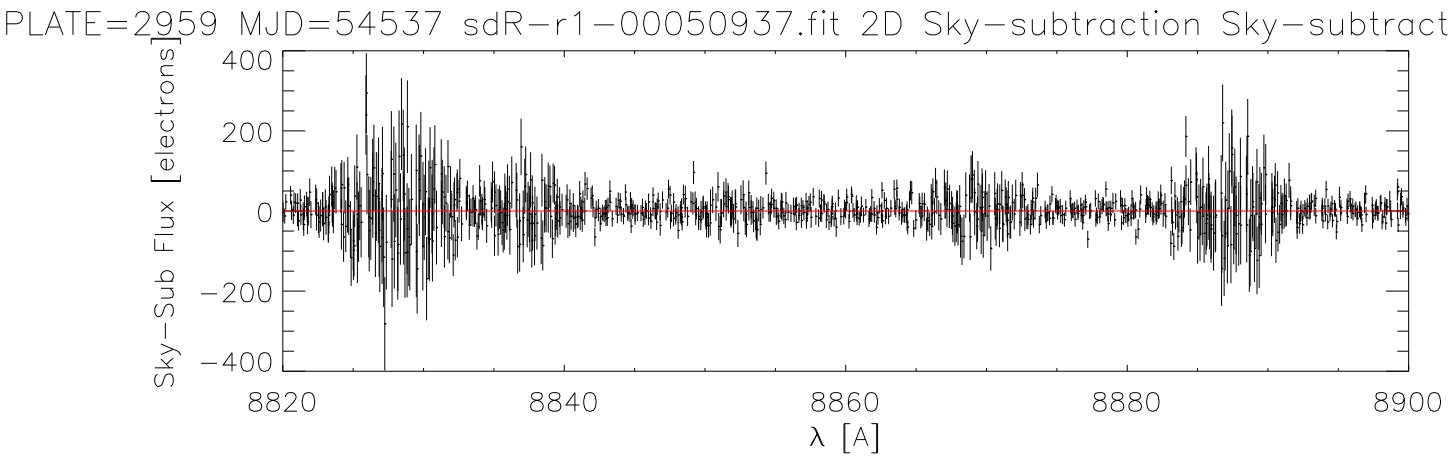

PLATE=2959 MJD=54537 sdR-r1-00050937.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

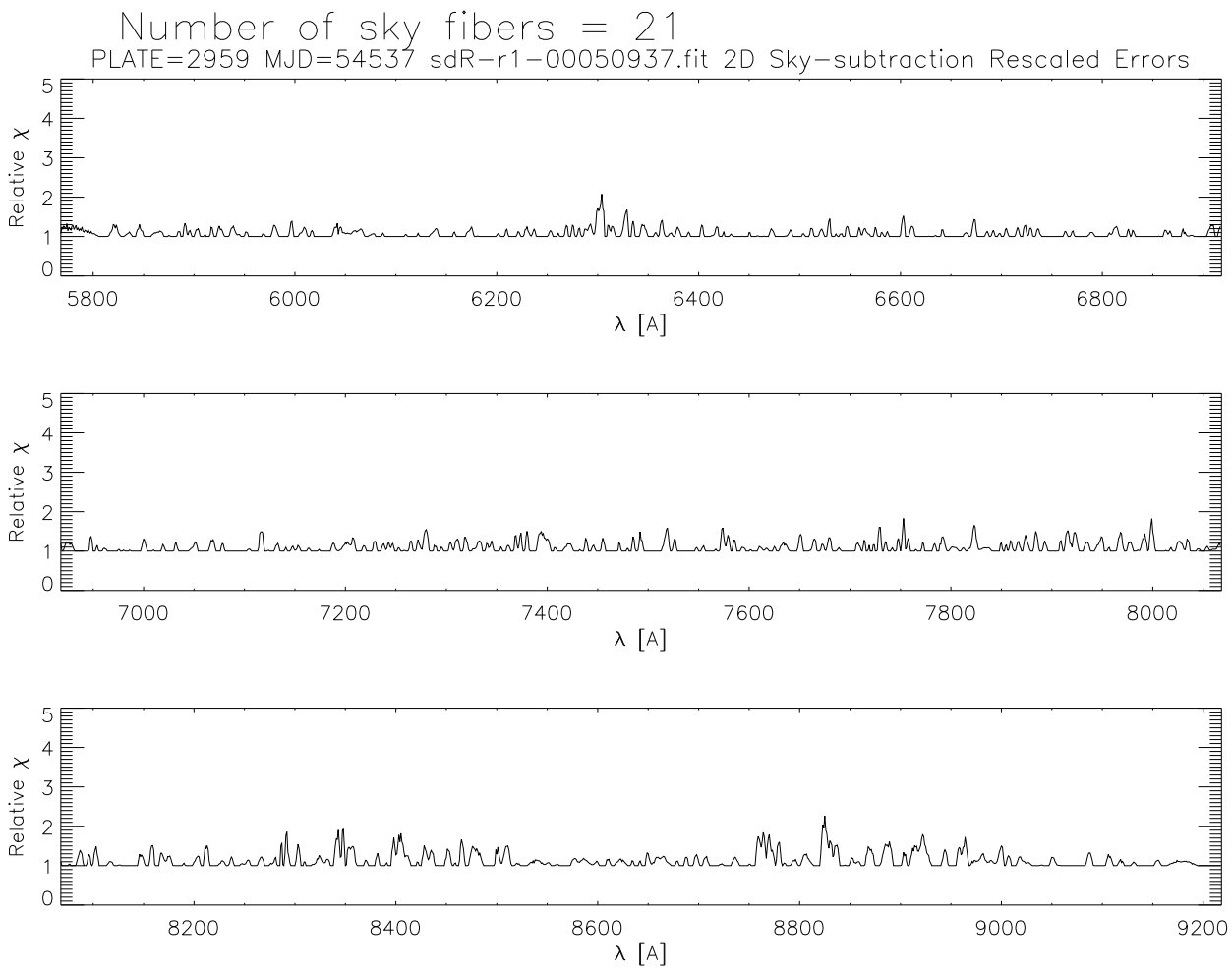

PLATE=2959 MJD=54537 sdR-r1-00050937.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
-600
8820
8840
8860
8880
8900
λ [A]

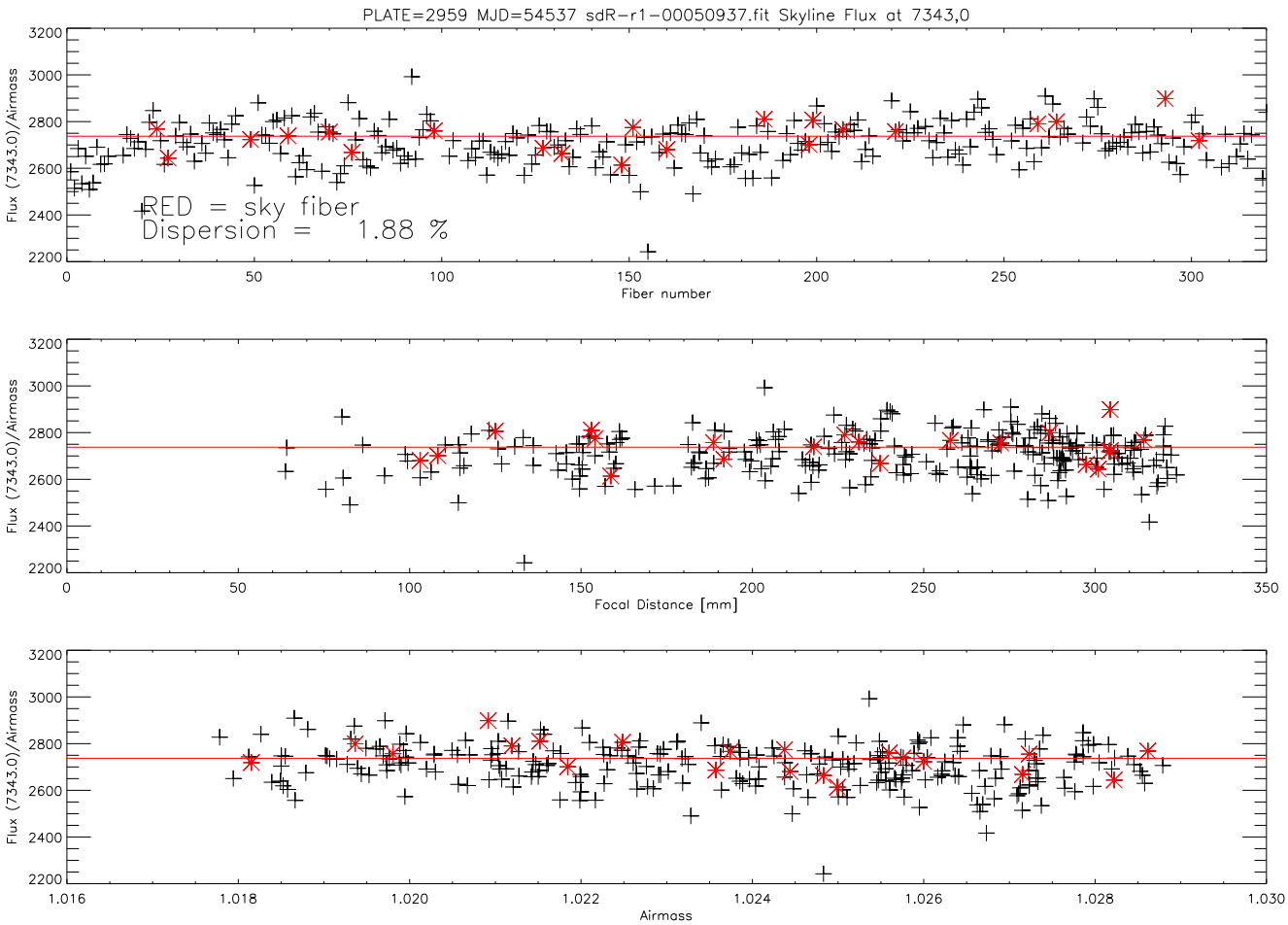

Number of sky fibers = 21
PLATE=2959 MJD=54537 sdR-r1-00050937.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

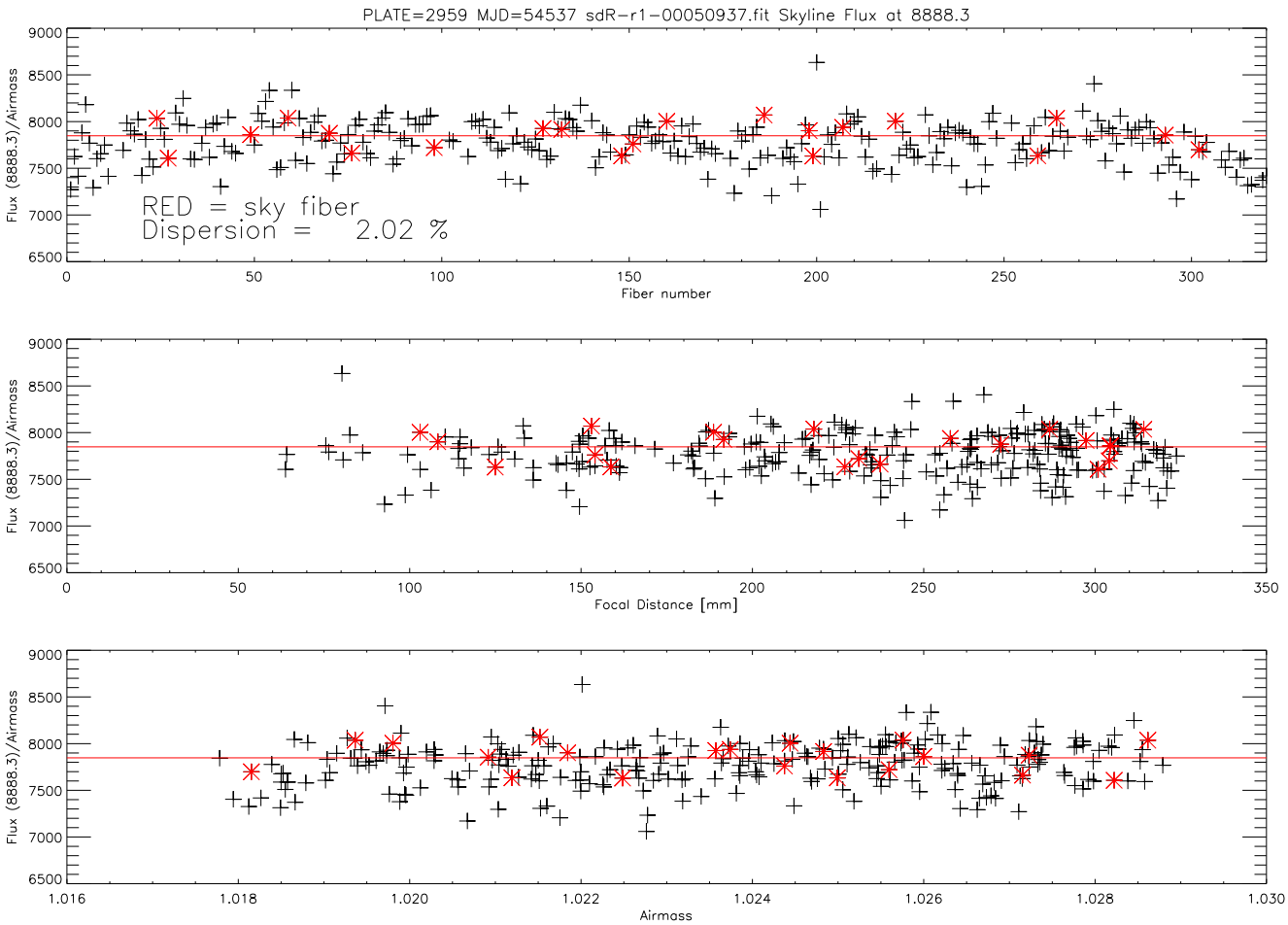

PLATE=2959 MJD=54537 sdR-r1-00050937.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
50
100
150
200
250
300
Fiber number

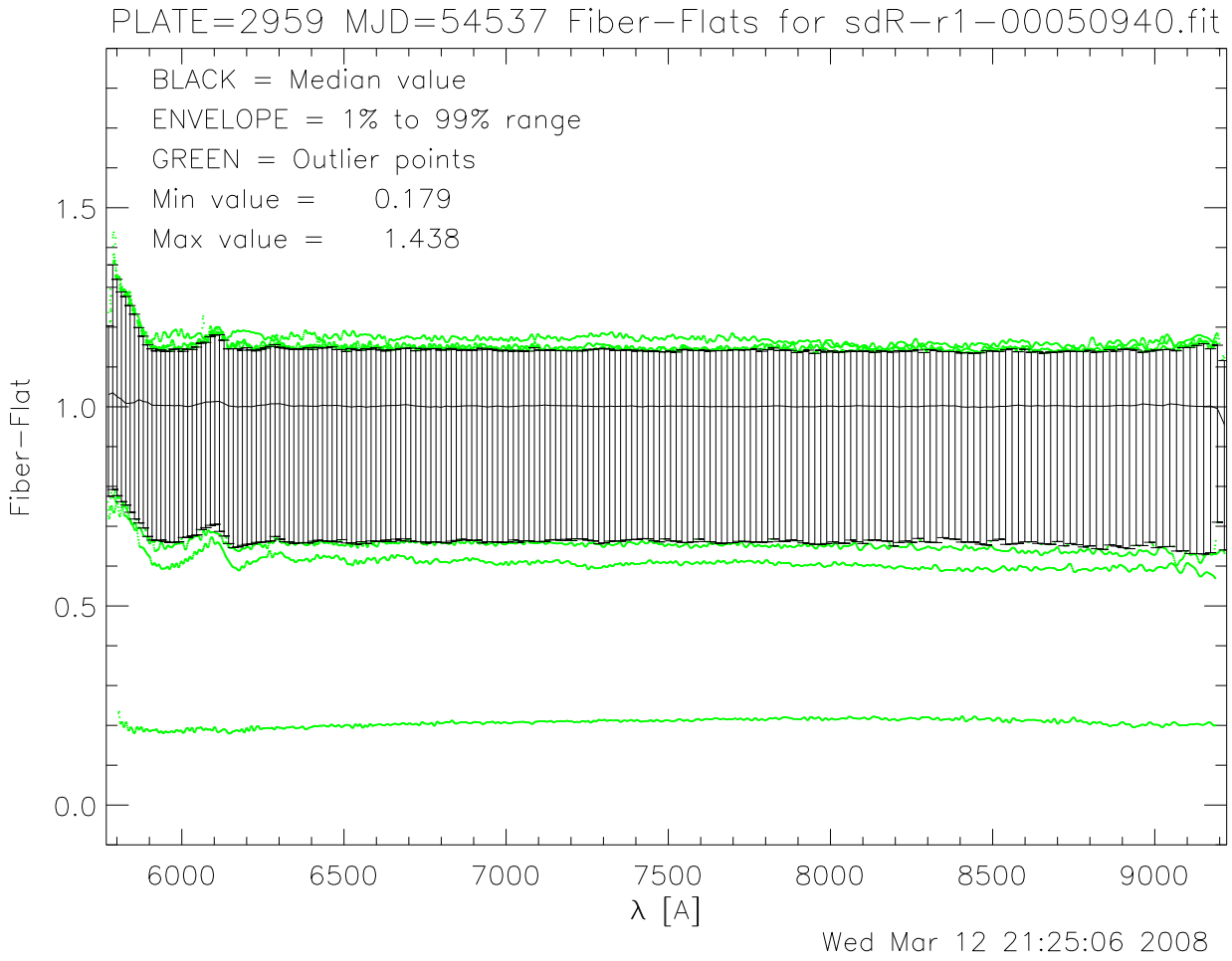

PLATE=2959 MJD=54537 sdR-r1-00050937.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

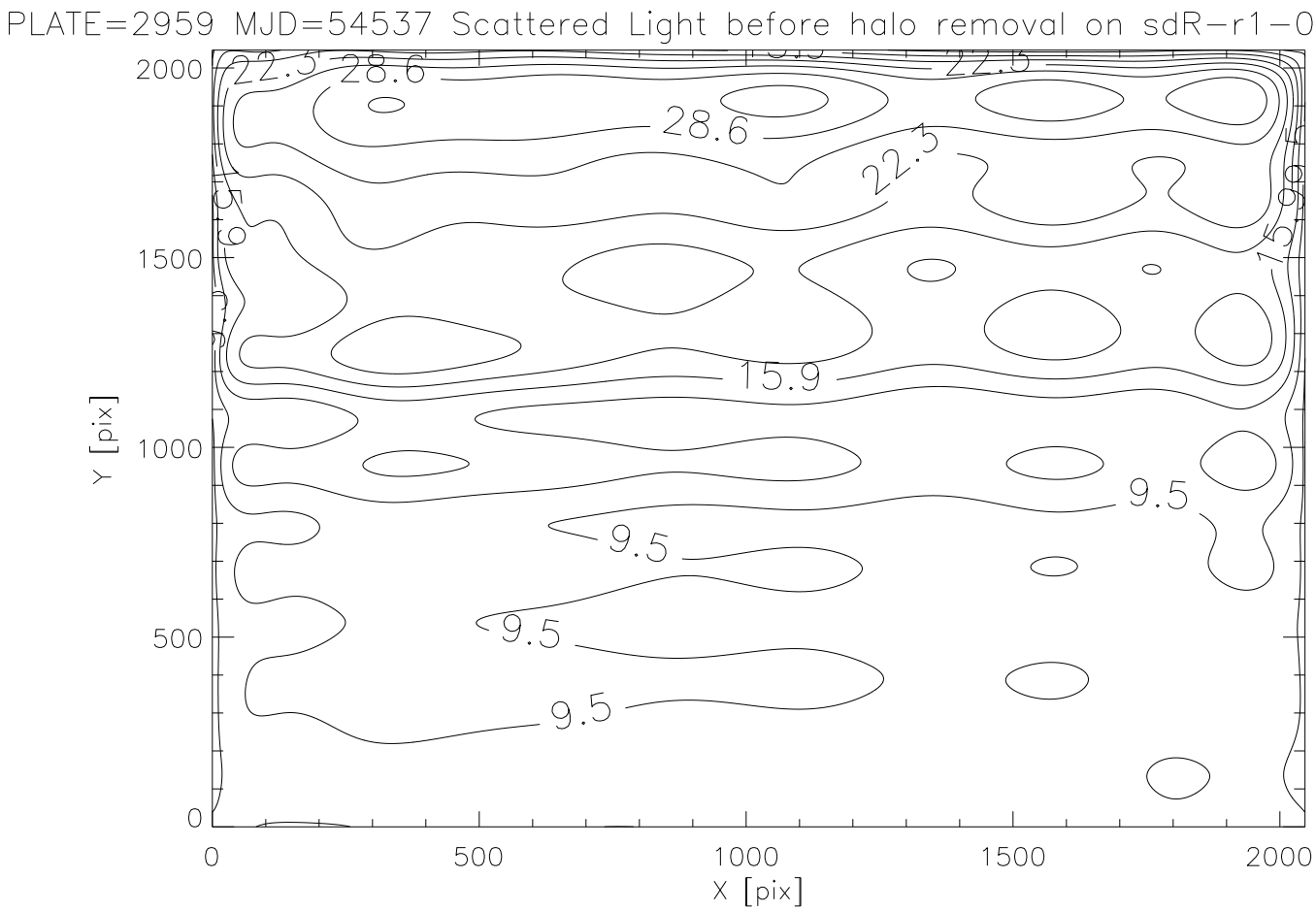

PLATE=2959 MJD=54537 sdR-r1-00050937.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

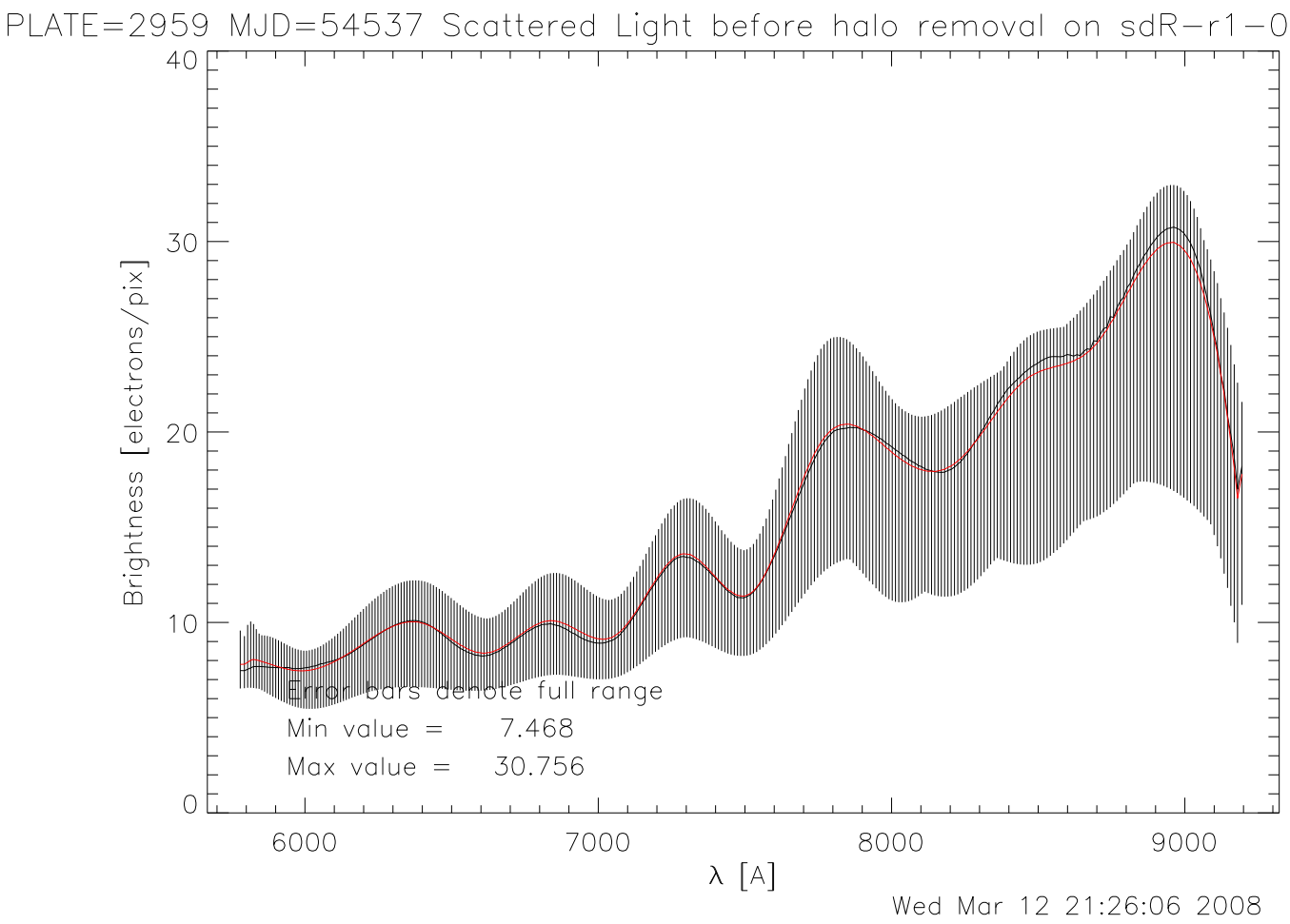

Number of sky fibers = 21
PLATE=2959 MJD=54537 sdR-r1-00050937.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

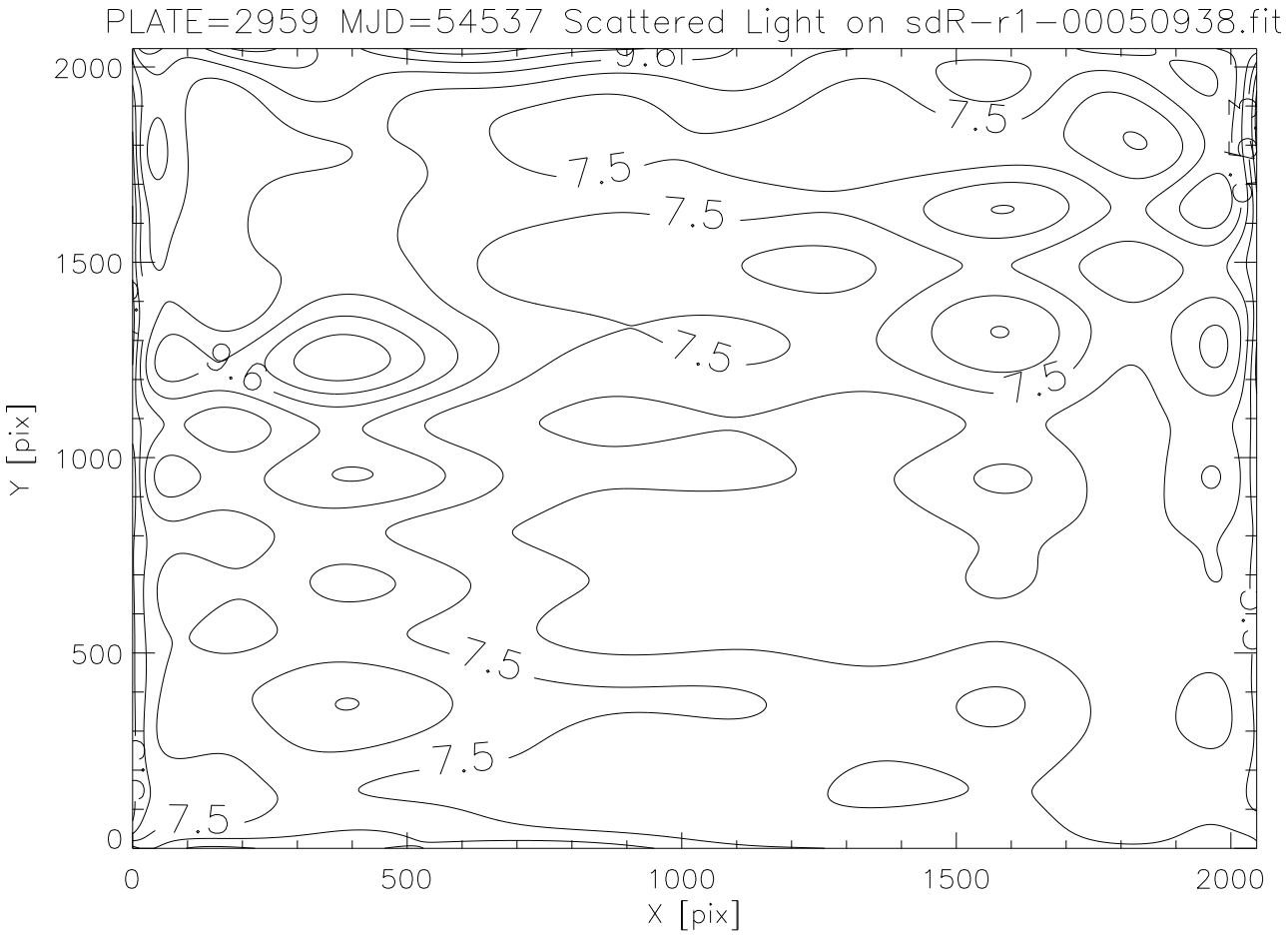

PLATE=2959 MJD=54537 sdR-r1-00050937.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.88 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

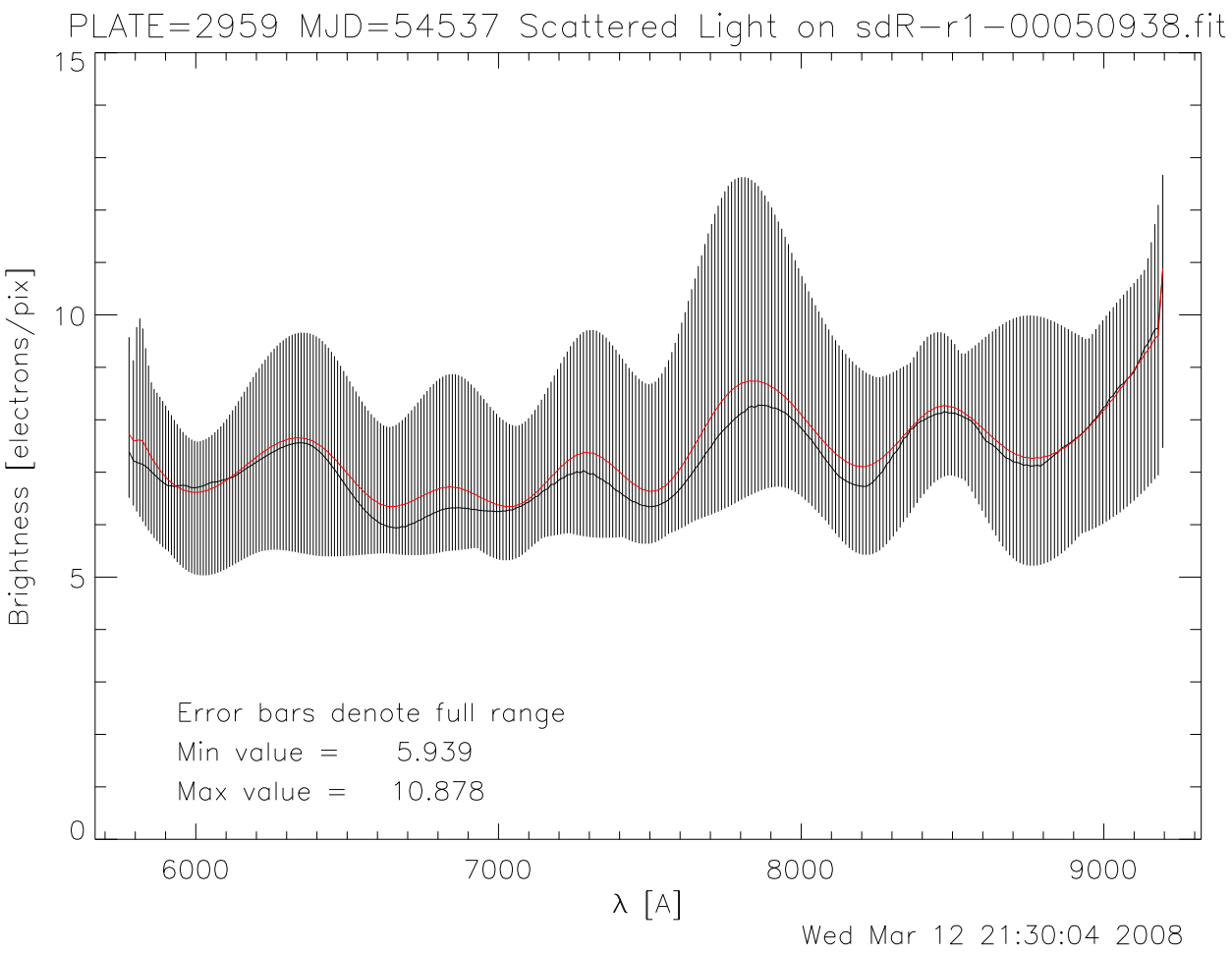

PLATE=2959 MJD=54537 sdR-r1-00050937.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.02 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

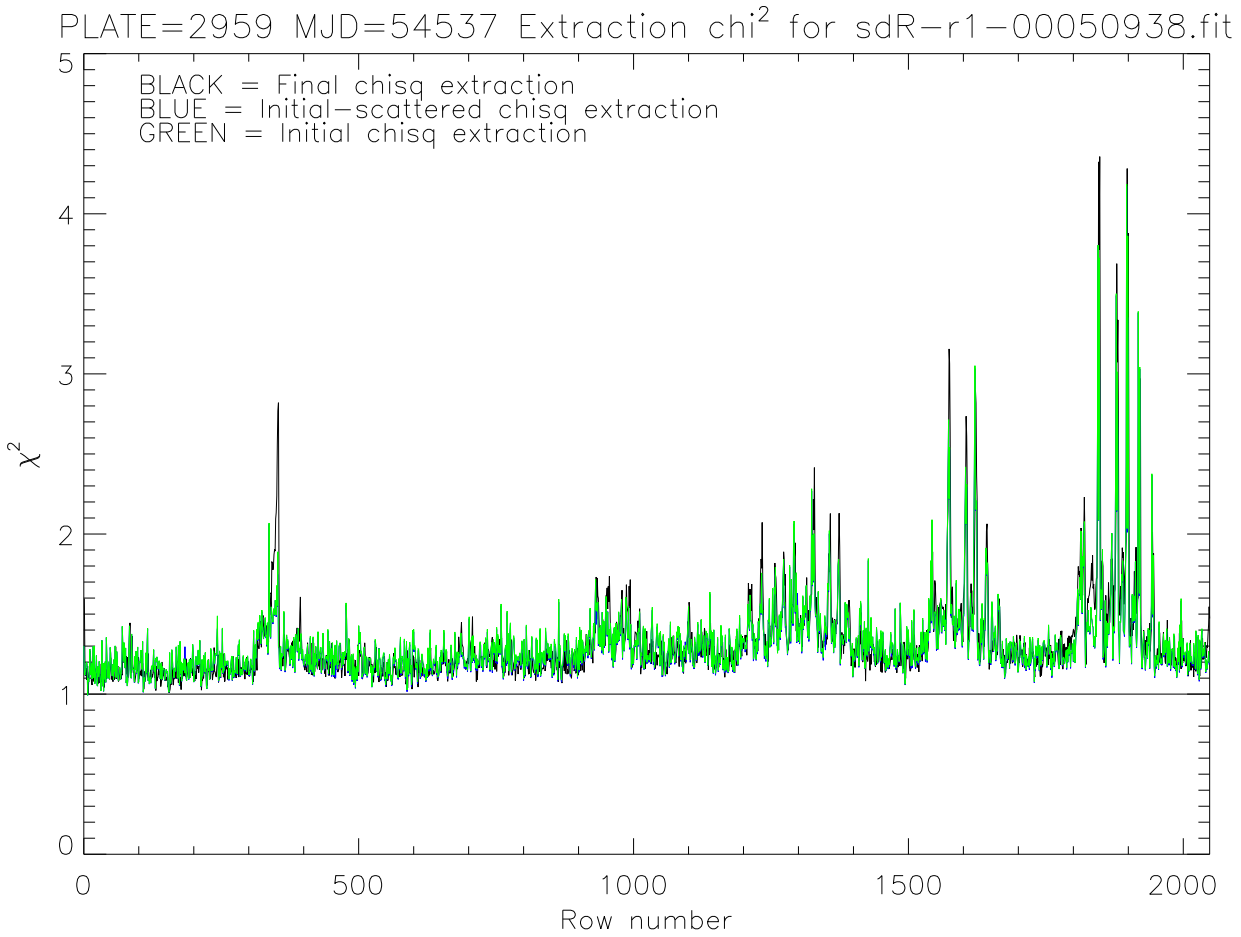

PLATE=2959 MJD=54537 Fiber-Flats for sdR-r1-00050940.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.179
Max value = 1.438
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 12 21:25:06 2008

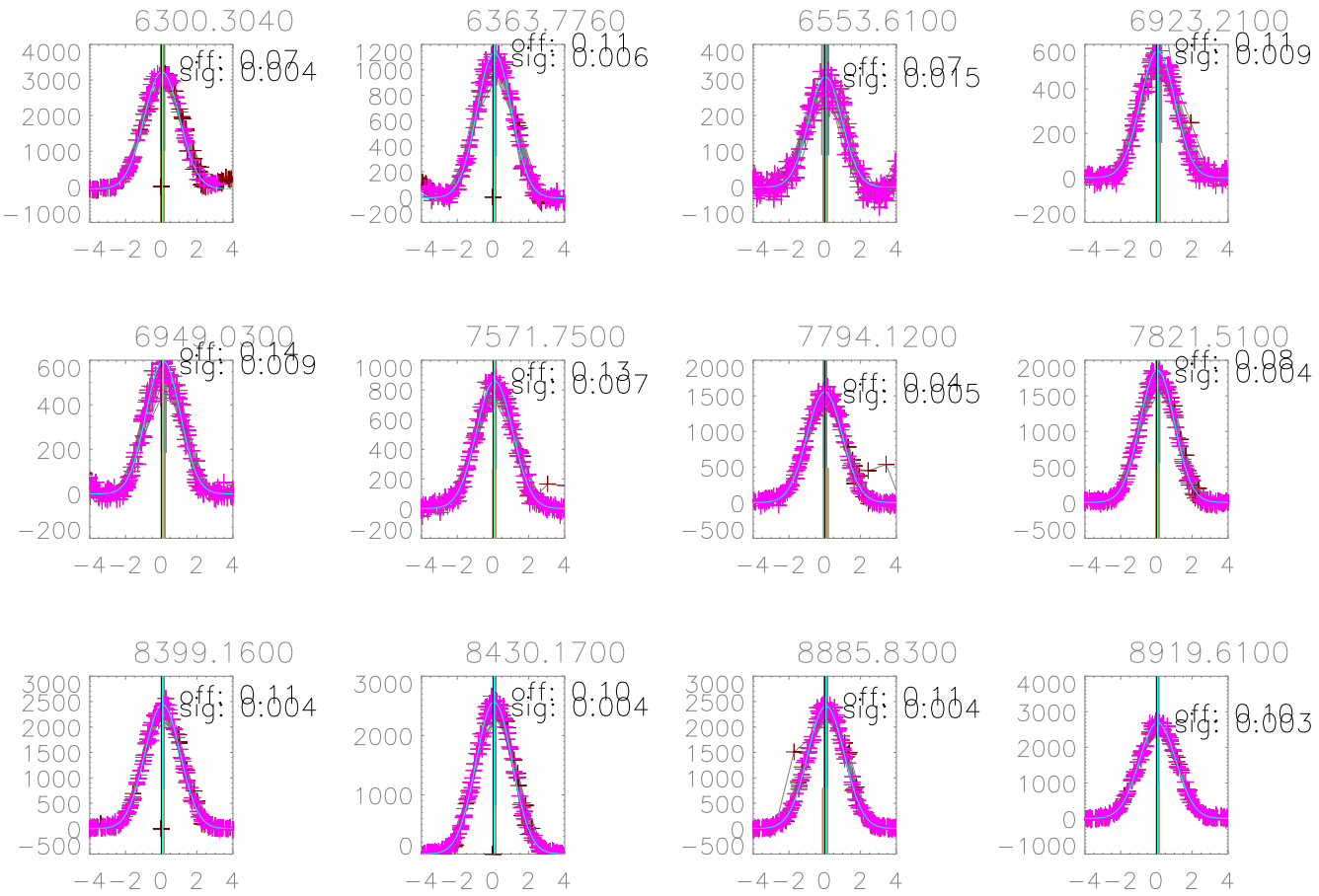

PLATE=2959 MJD=54537 Scattered Light before halo removal on sdR−r1−00050938.fi
22.5
28.6
22.5
28.6
22.5
15.9
15.9
15.9
9.5
9.5
9.5
9.5
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

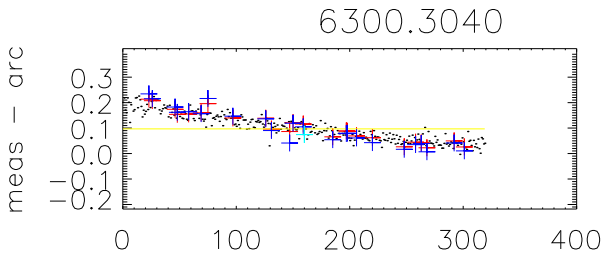

PLATE=2959 MJD=54537 Scattered Light before halo removal on sdR-r1-00050938.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.468
Max value = 30.756
Wed Mar 12 21:26:06 2008

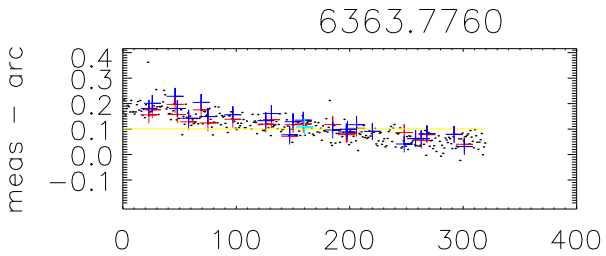

PLATE=2959 MJD=54537 Scattered Light on sdR-r1-00050938.fit
9.6
7.5
7.5
7.5
7.5
9.6
7.5
7.5
7.5
7.5
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

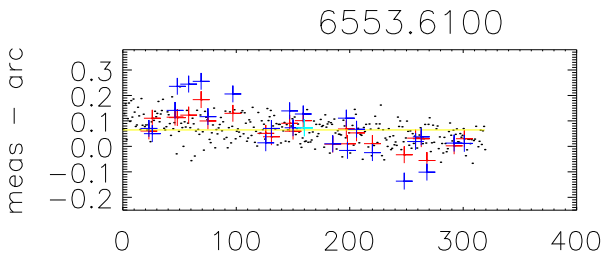

PLATE=2959 MJD=54537 Scattered Light on sdR-r1-00050938.fit
Brightness [electrons/pix]
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 5.939
Max value = 10.878
Wed Mar 12 21:30:04 2008

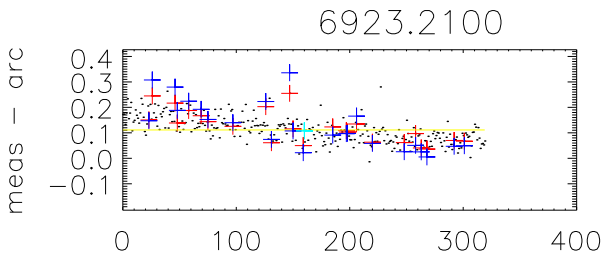

PLATE=2959 MJD=54537 Extraction chi^2 for sdR−r1−00050938.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

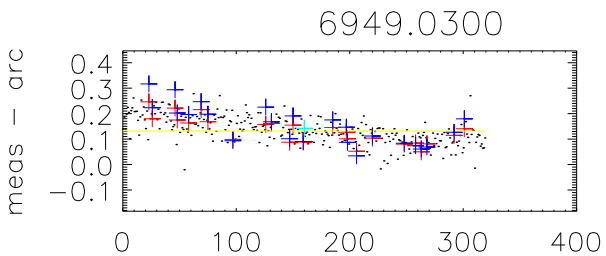

6300.3040
off: 0.07
sig: 0.004
6363.7760
off: 0.11
sig: 0.006
6553.6100
off: 0.07
sig: 0.015
6923.2100
off: 0.11
sig: 0.009
6949.0300
off: 0.14
sig: 0.009
7571.7500
off: 0.13
sig: 0.007
7794.1200
off: 0.04
sig: 0.005
7821.5100
off: 0.08
sig: 0.004
8399.1600
off: 0.11
sig: 0.004
8430.1700
off: 0.10
sig: 0.004
8885.8300
off: 0.11
sig: 0.004
8919.6100
off: 0.10
sig: 0.003

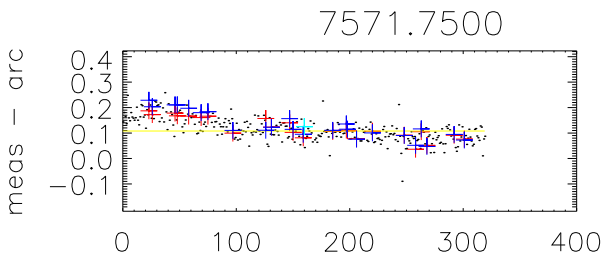

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

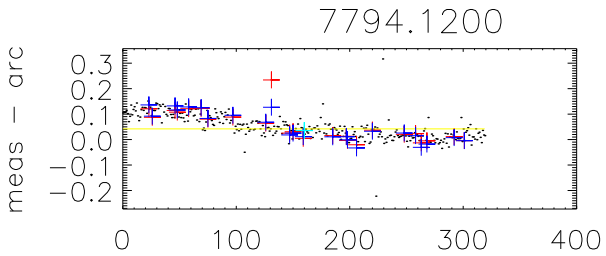

6363.7760
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

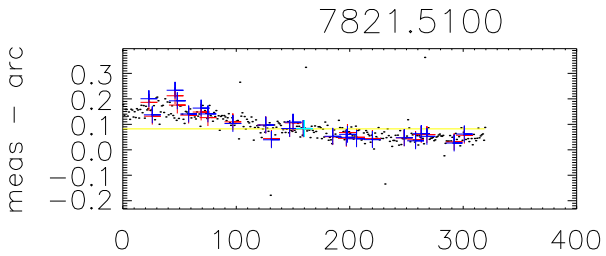

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

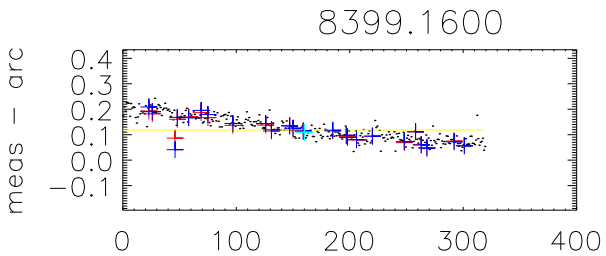

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

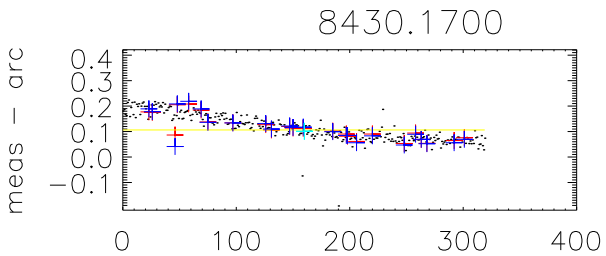

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

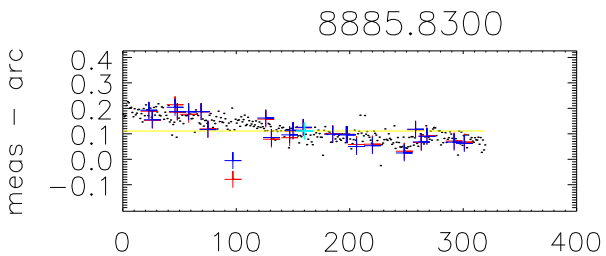

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

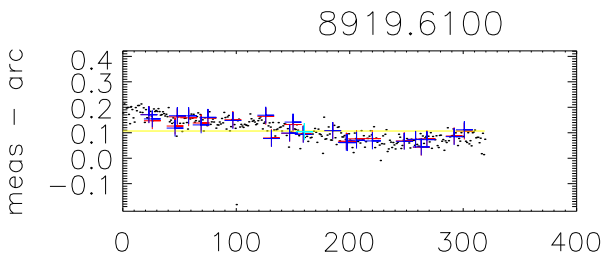

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

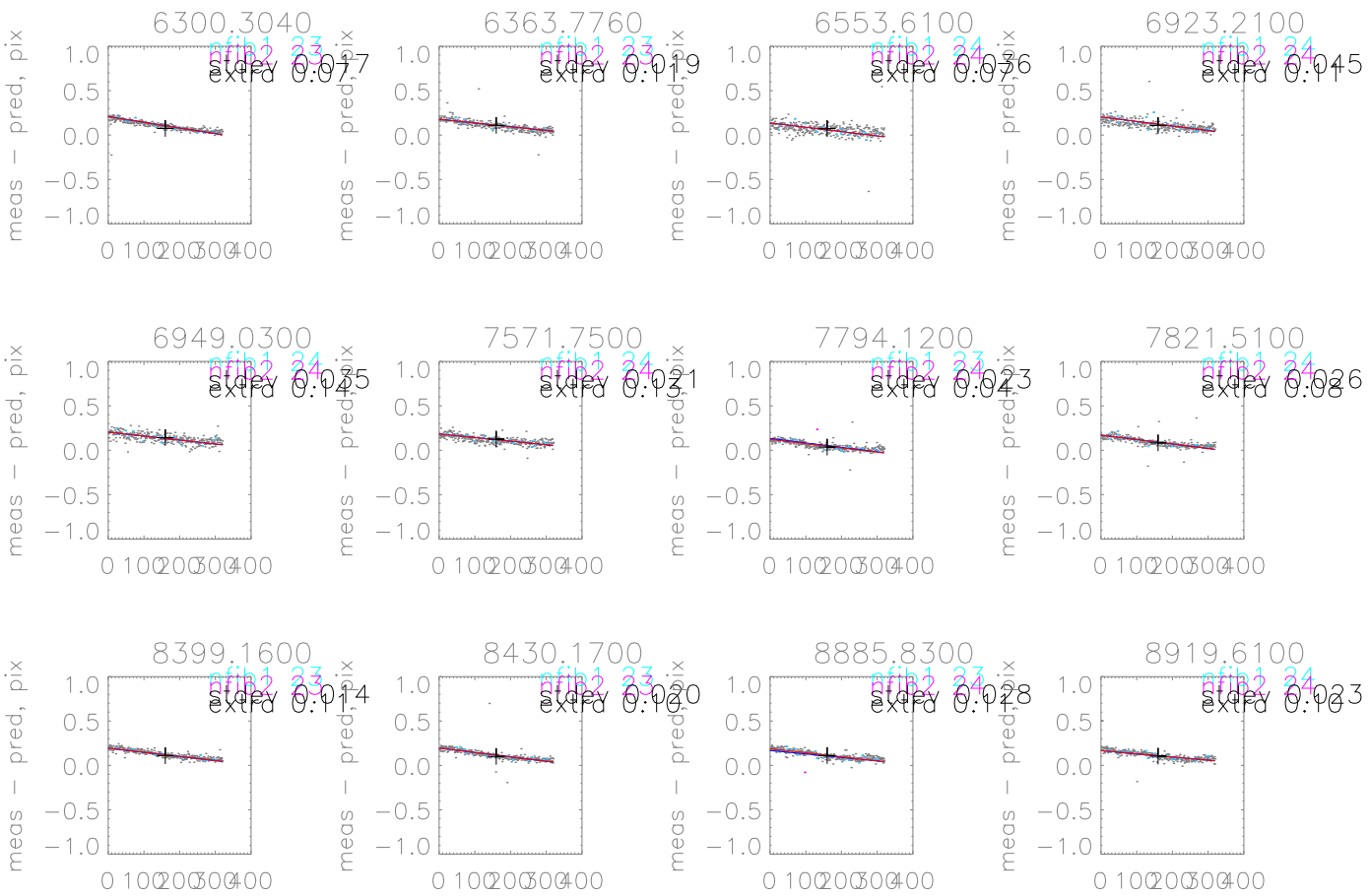

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

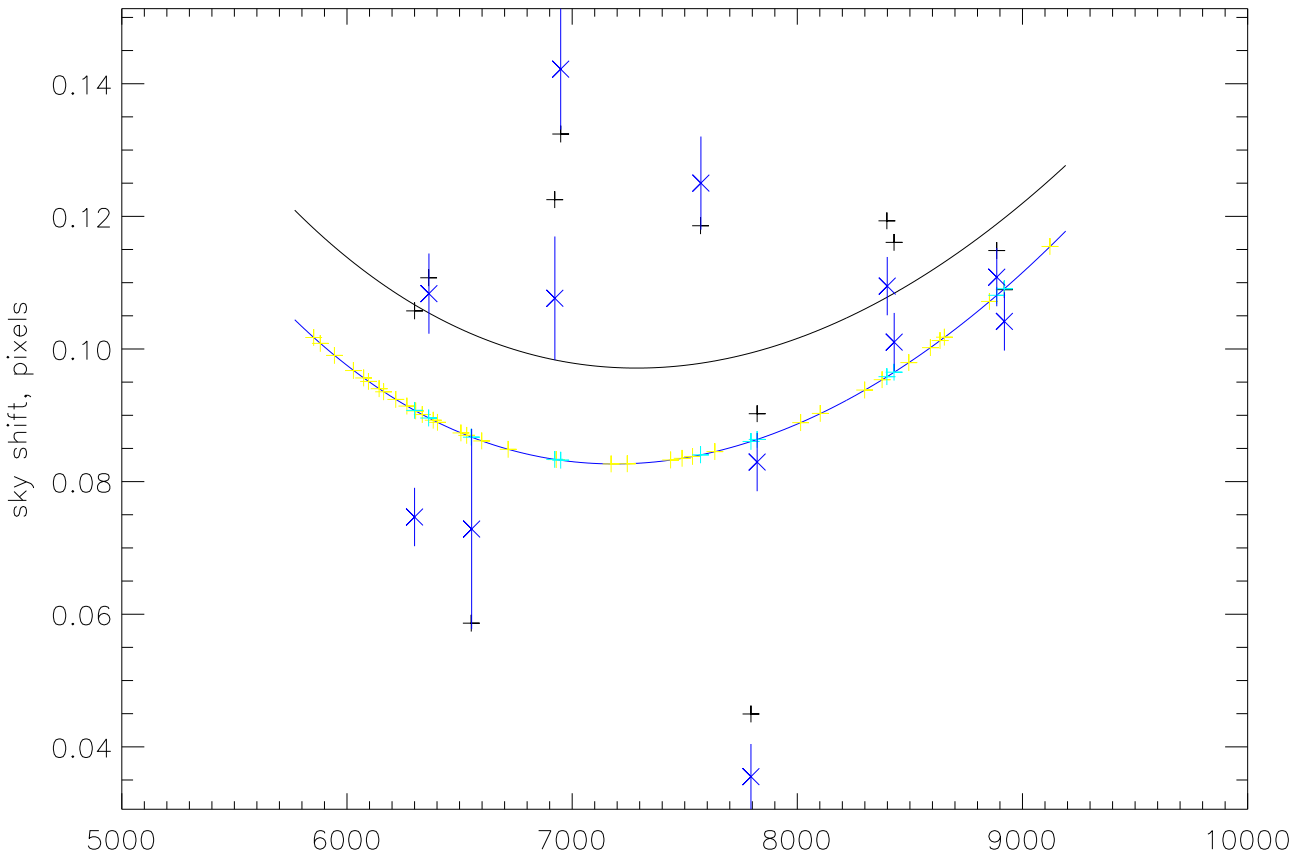

8399.1600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

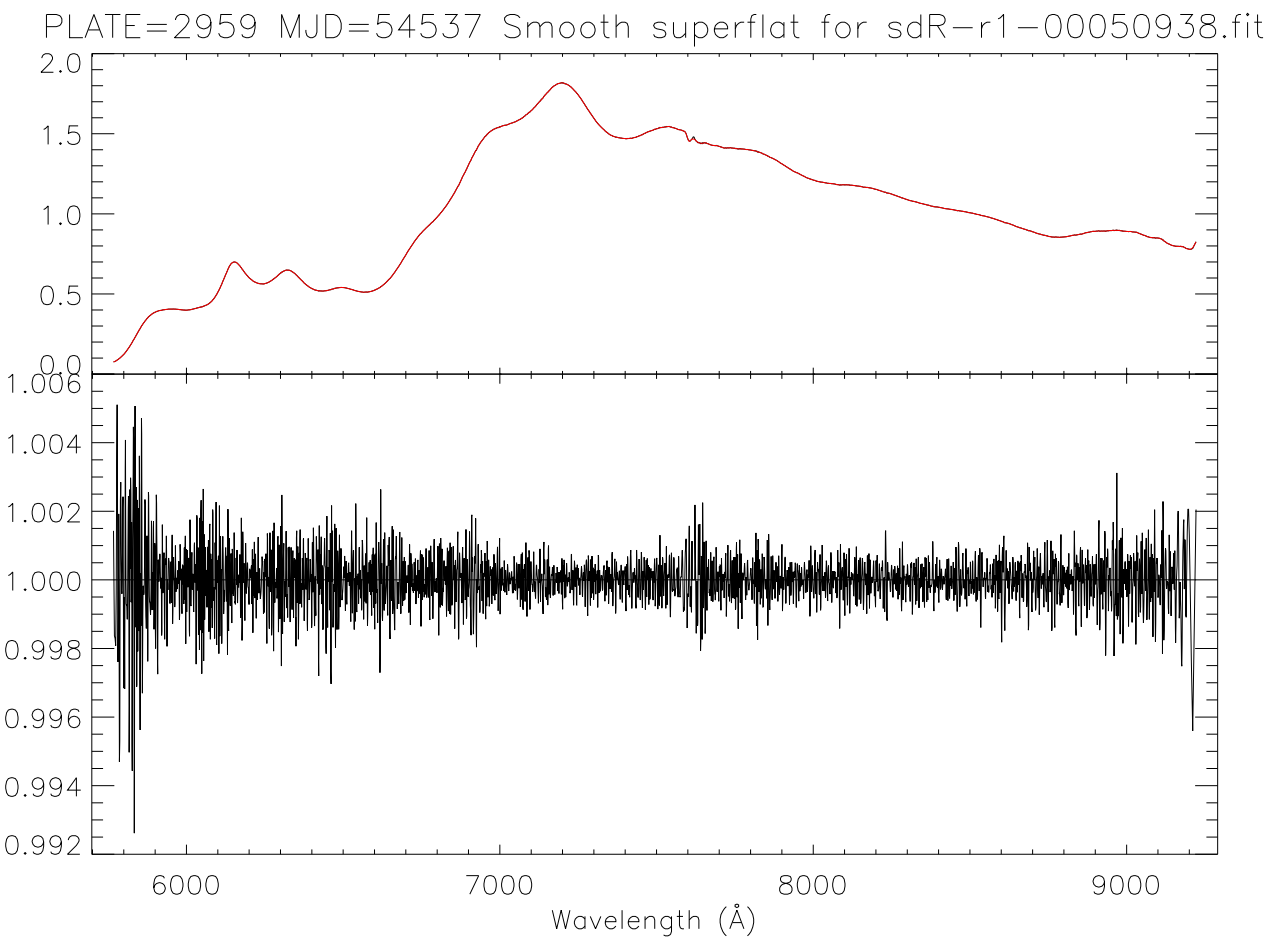

8885.8300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

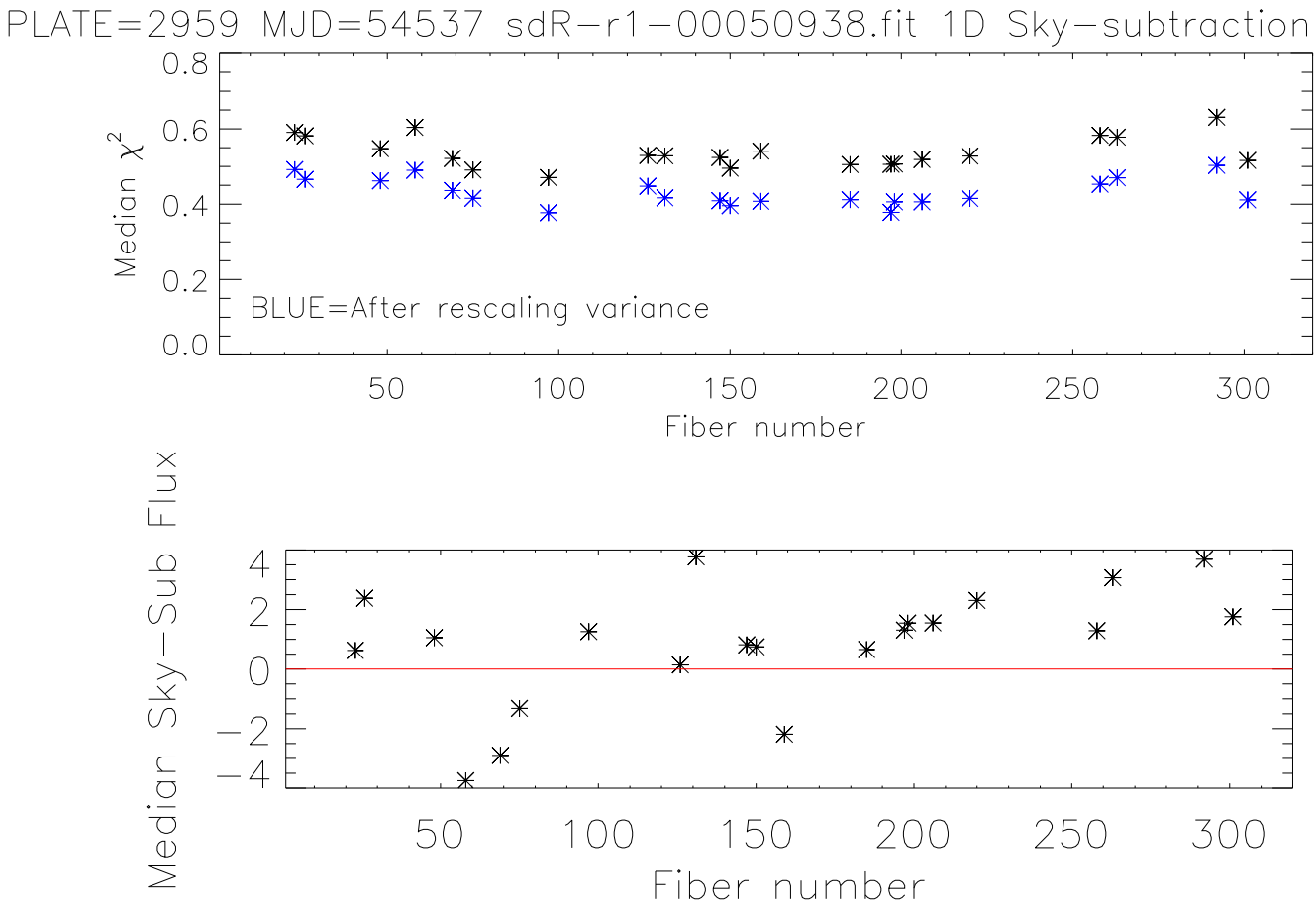

8919.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

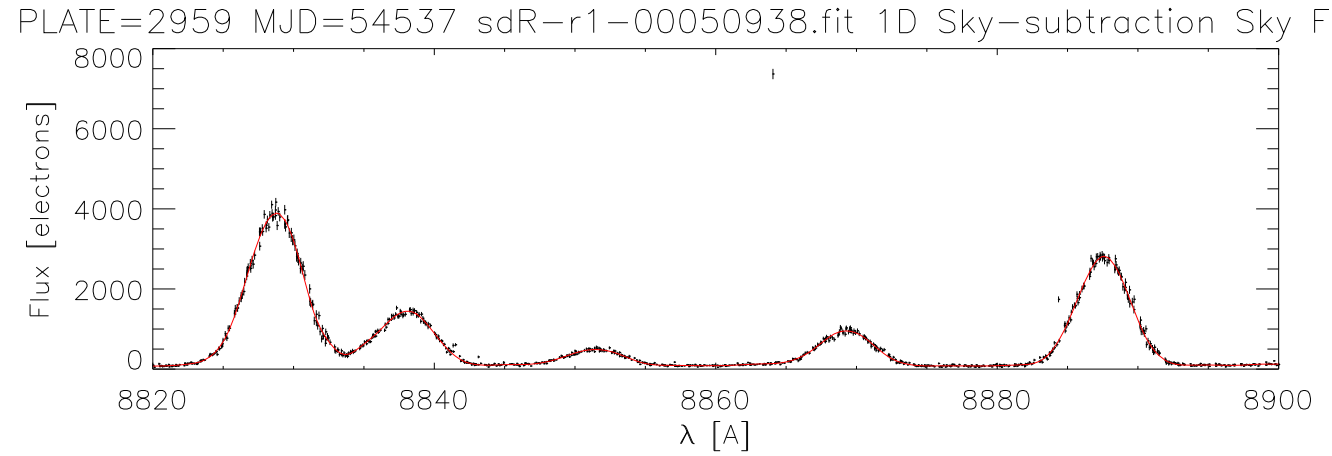

6300.3040
mfib1 23
mfib2 23
stdev 0.017
extra 0.07
6363.7760
mfib1 23
mfib2 23
stdev 0.019
extra 0.11
6553.6100
mfib1 24
mfib2 24
stdev 0.036
extra 0.07
6923.2100
mfib1 24
mfib2 24
stdev 0.045
extra 0.11
6949.0300
mfib1 24
mfib2 24
stdev 0.035
extra 0.14
7571.7500
mfib1 24
mfib2 24
stdev 0.021
extra 0.13
7794.1200
mfib1 24
mfib2 24
stdev 0.023
extra 0.04
7821.5100
mfib1 24
mfib2 24
stdev 0.026
extra 0.08
8399.1600
mfib1 23
mfib2 23
stdev 0.014
extra 0.11
8430.1700
mfib1 23
mfib2 23
stdev 0.030
extra 0.10
8885.8300
mfib1 23
mfib2 24
stdev 0.028
extra 0.11
8919.6100
mfib1 24
mfib2 24
stdev 0.023
extra 0.10
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

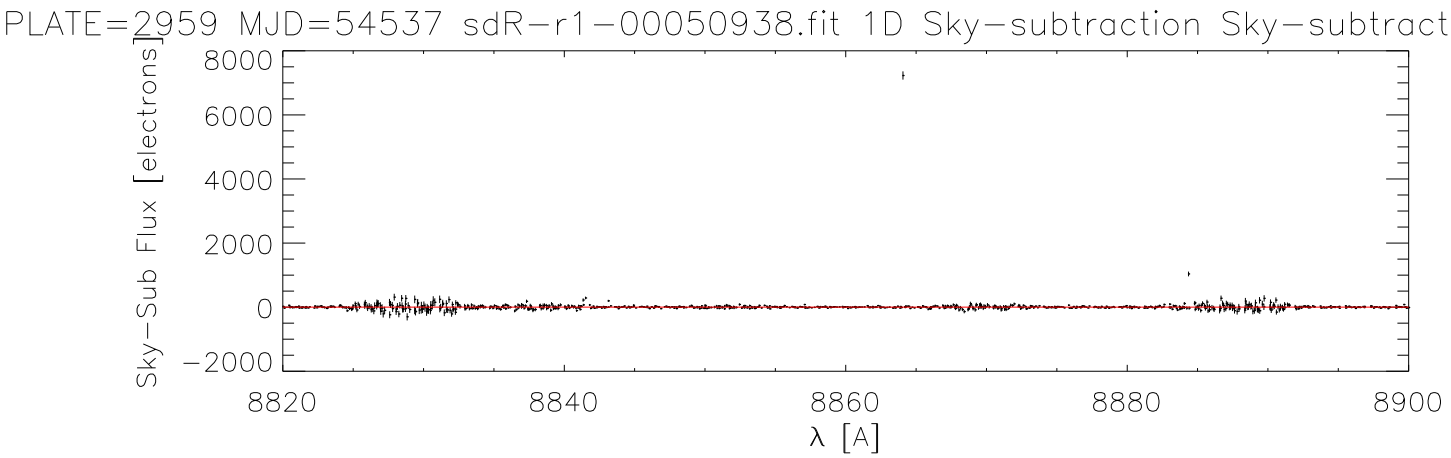

sky shift, pixels
0.14
0.12
0.10
0.08
0.06
0.04
5000
6000
7000
8000
9000
10000

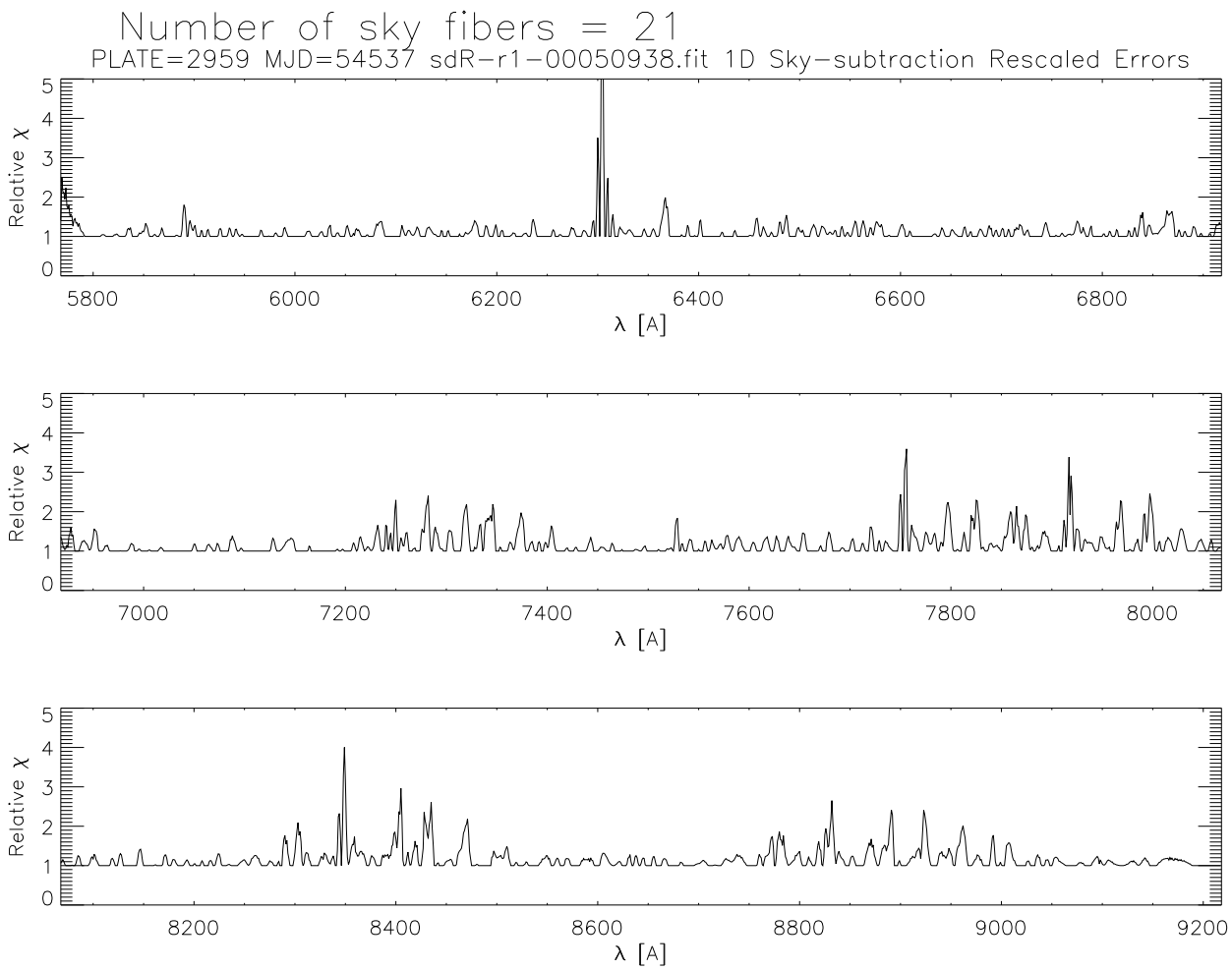
es= 0.0000

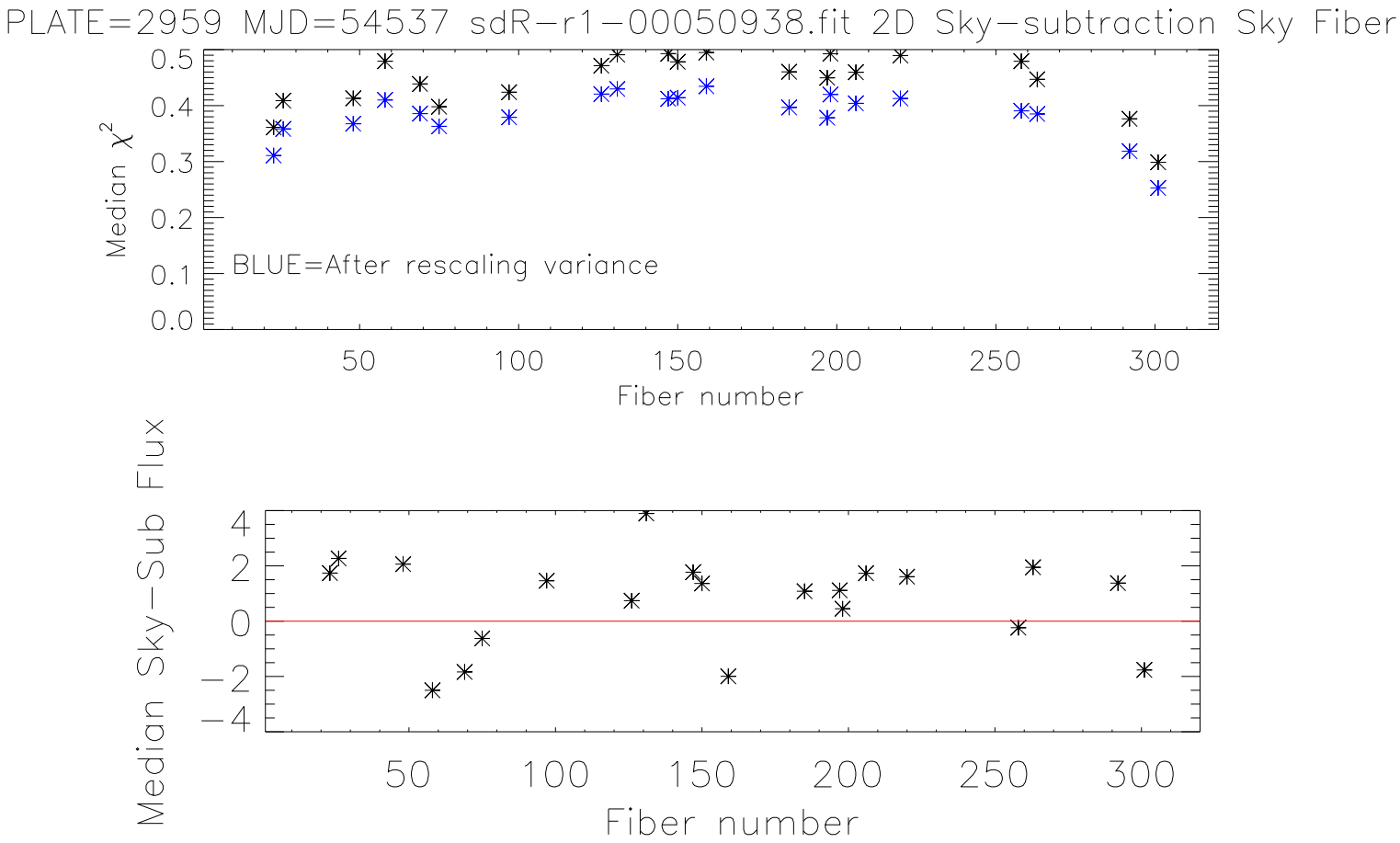

PLATE=2959 MJD=54537 Smooth superflat for sdR-r1-00050938.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
6000
7000
8000
9000
Wavelength (Å)

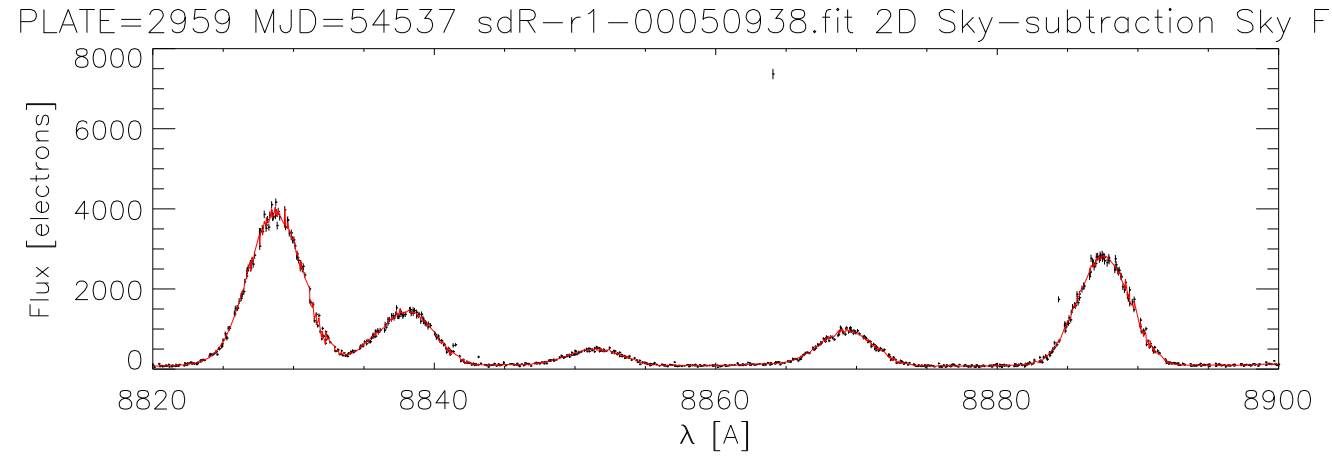

PLATE=2959 MJD=54537 sdR-r1-00050938.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
50
100
150
200
250
300
Fiber number

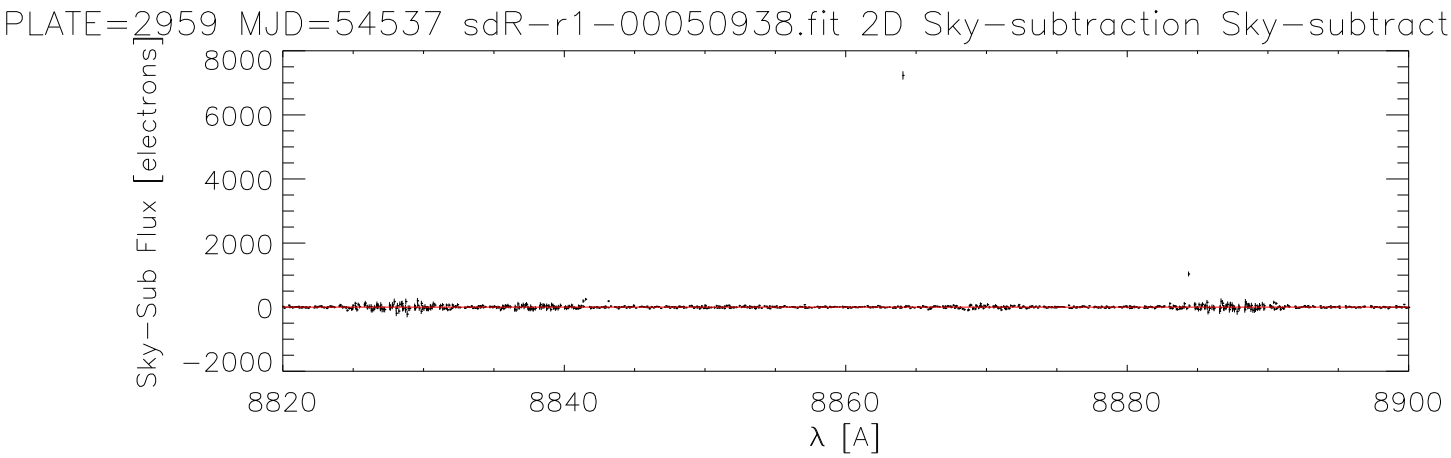

PLATE=2959 MJD=54537 sdR-r1-00050938.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

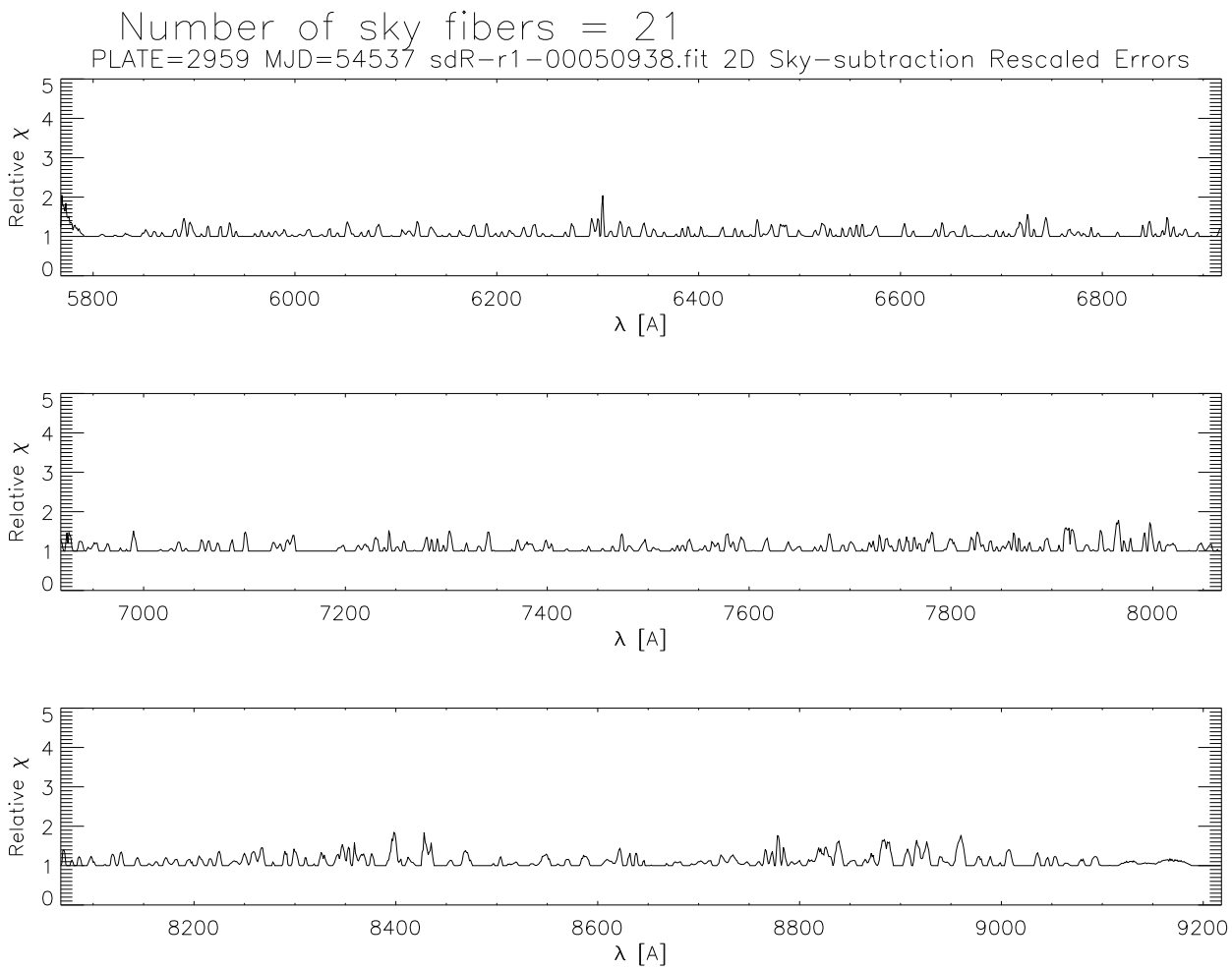

PLATE=2959 MJD=54537 sdR-r1-00050938.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
8000
6000
4000
2000
0
-2000
8820
8840
8860
8880
8900
λ [A]

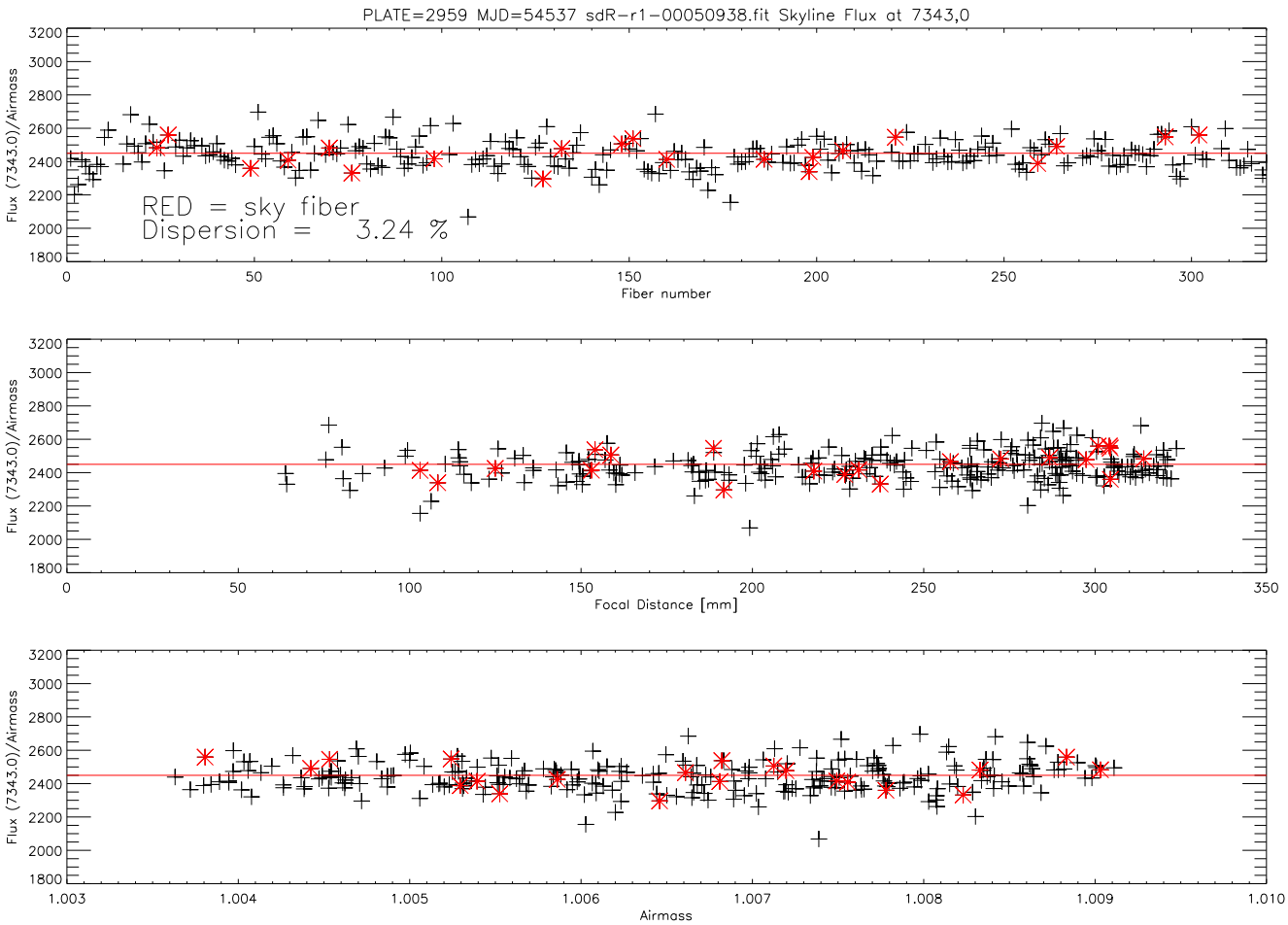

Number of sky fibers = 21
PLATE=2959 MJD=54537 sdR-r1-00050938.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

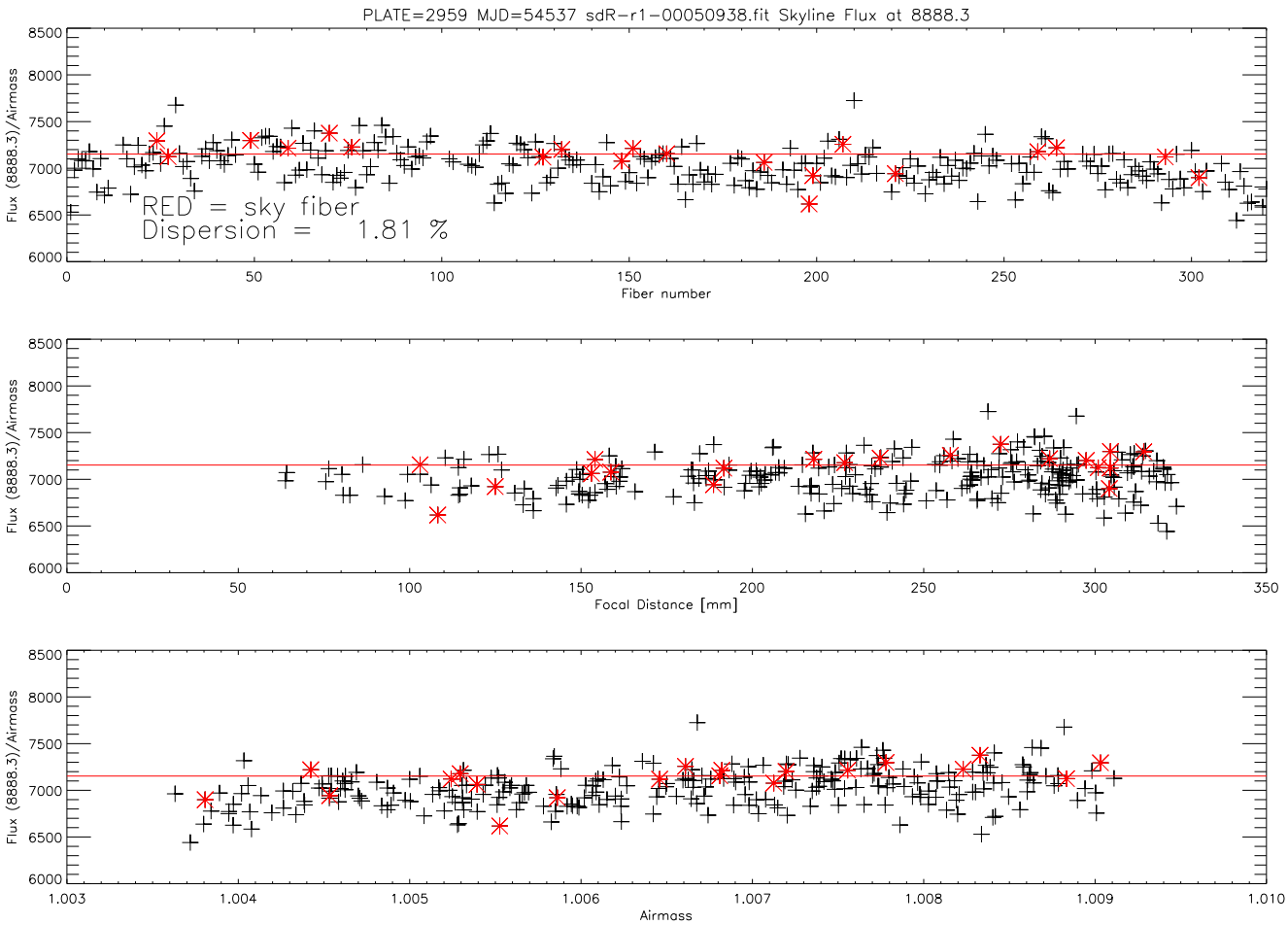

PLATE=2959 MJD=54537 sdR-r1-00050938.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
50
100
150
200
250
300
Fiber number

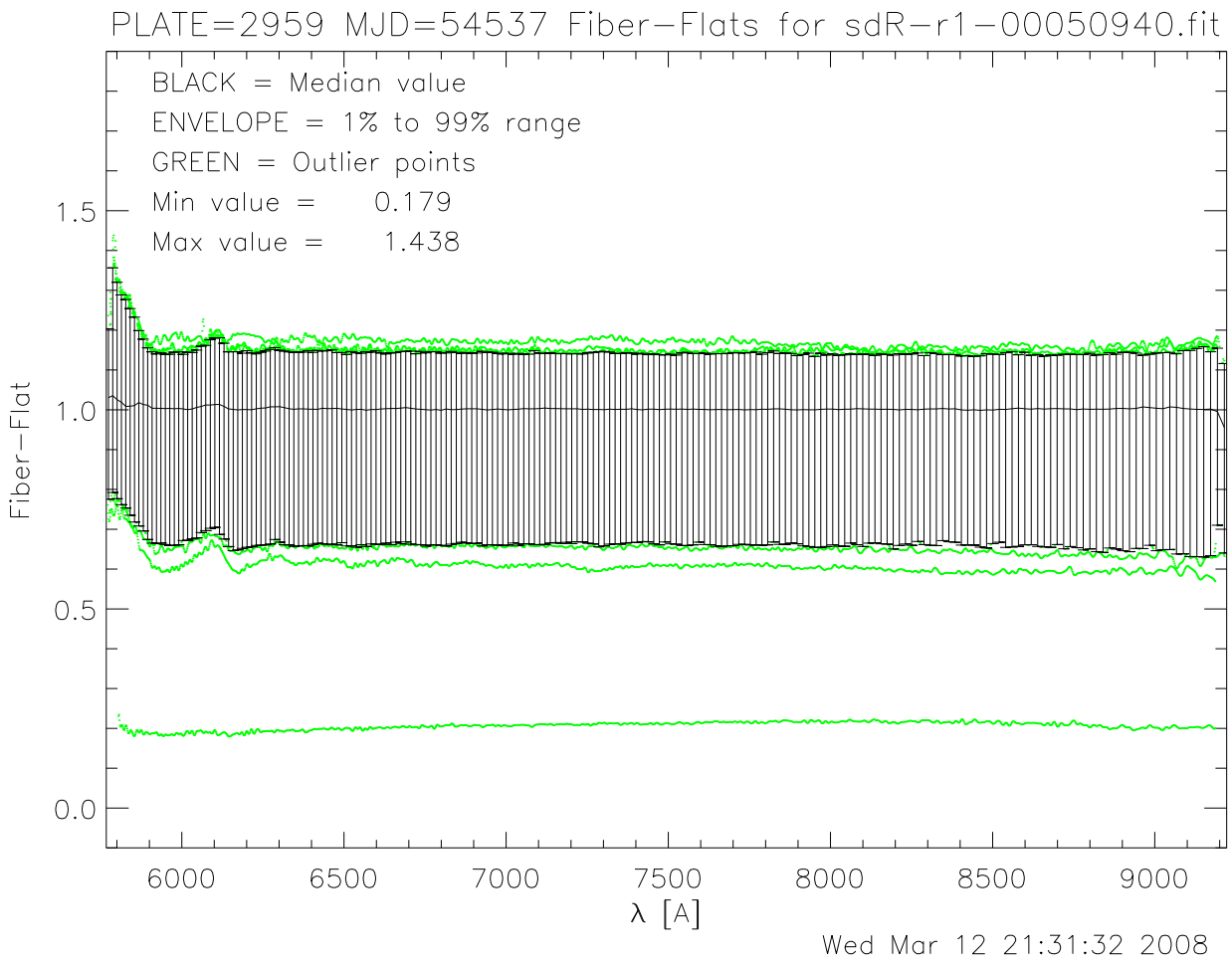

PLATE=2959 MJD=54537 sdR-r1-00050938.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

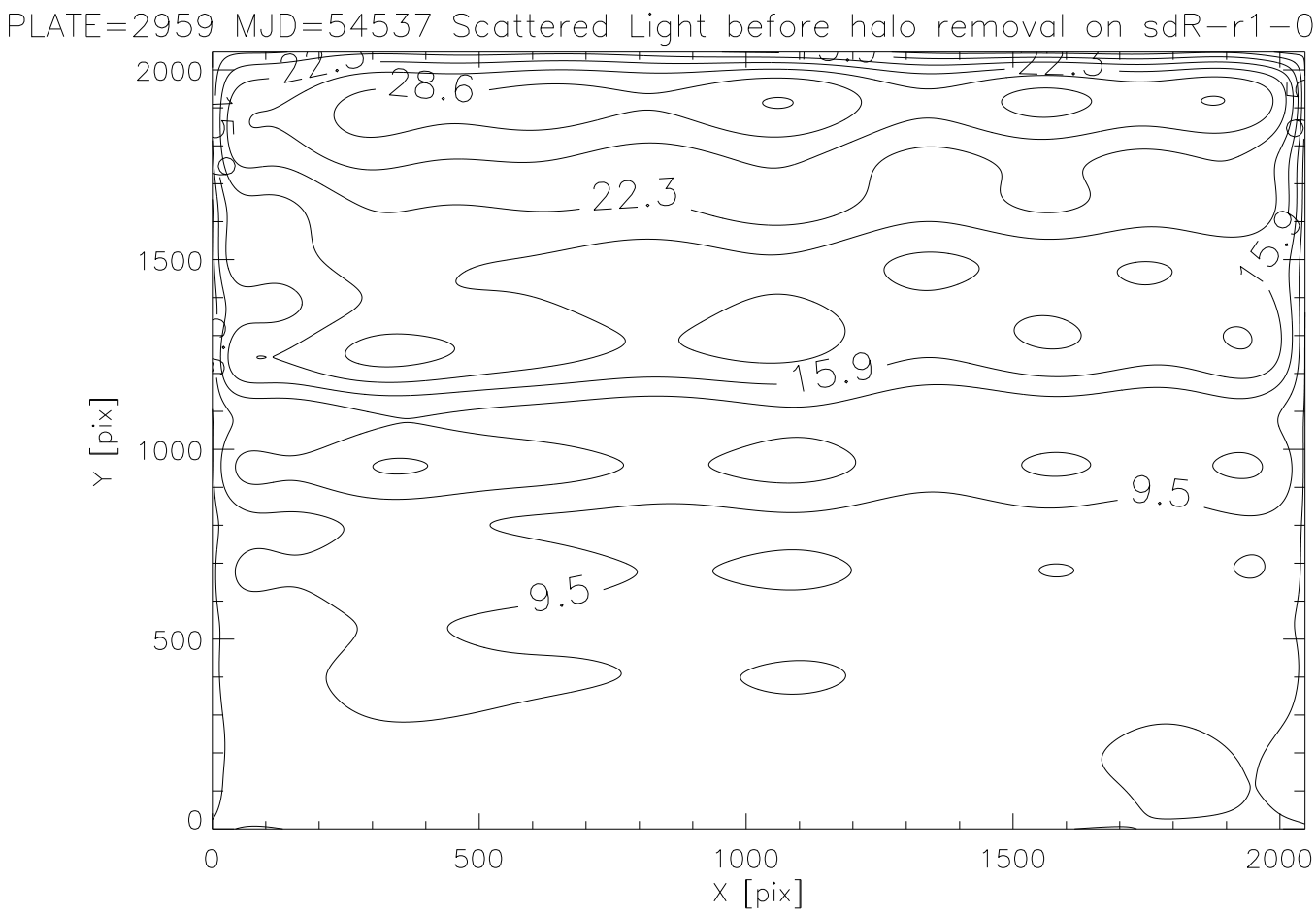

PLATE=2959 MJD=54537 sdR-r1-00050938.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
8000
6000
4000
2000
0
-2000
8820
8840
8860
8880
8900
λ [A]

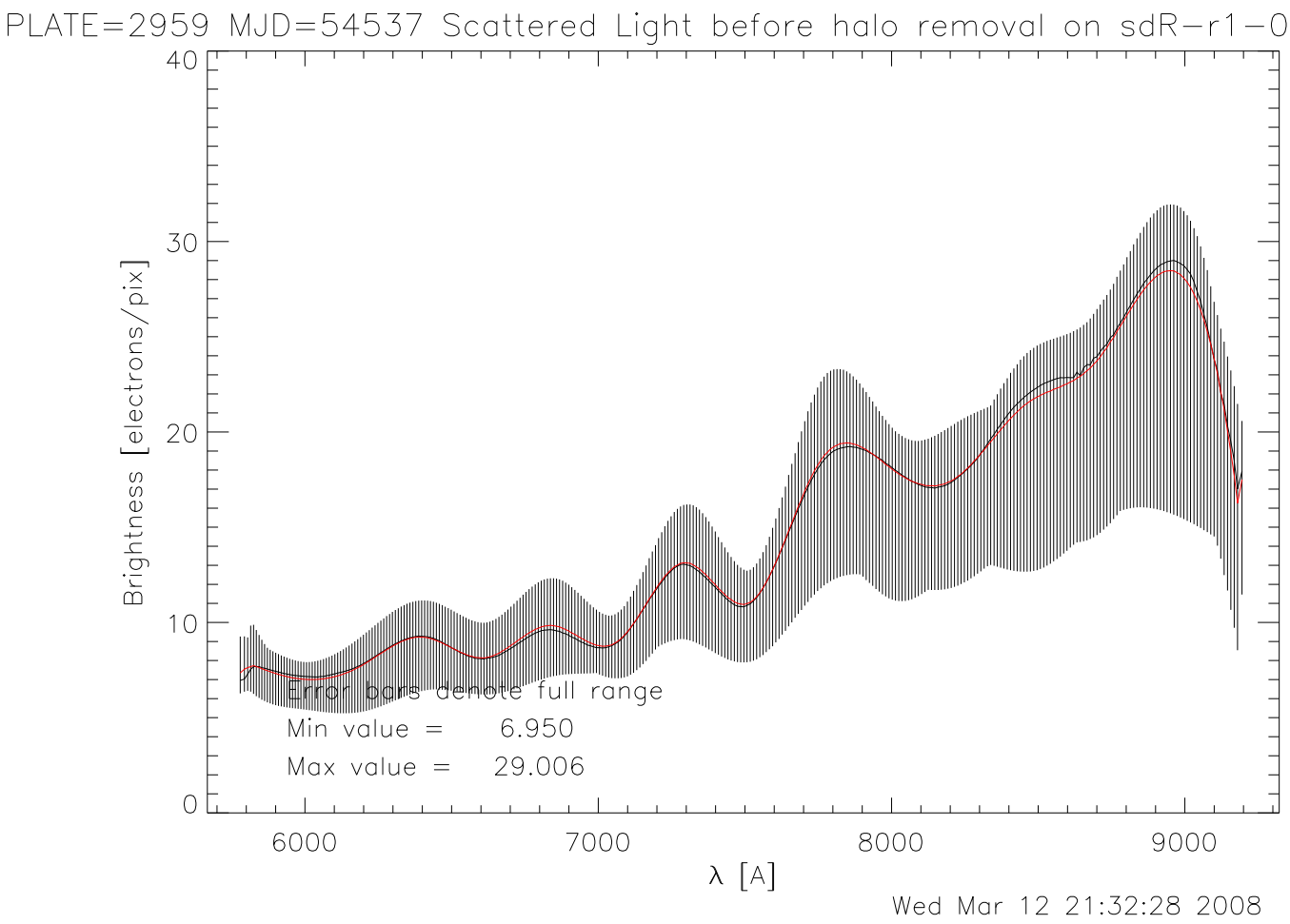

Number of sky fibers = 21
PLATE=2959 MJD=54537 sdR-r1-00050938.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

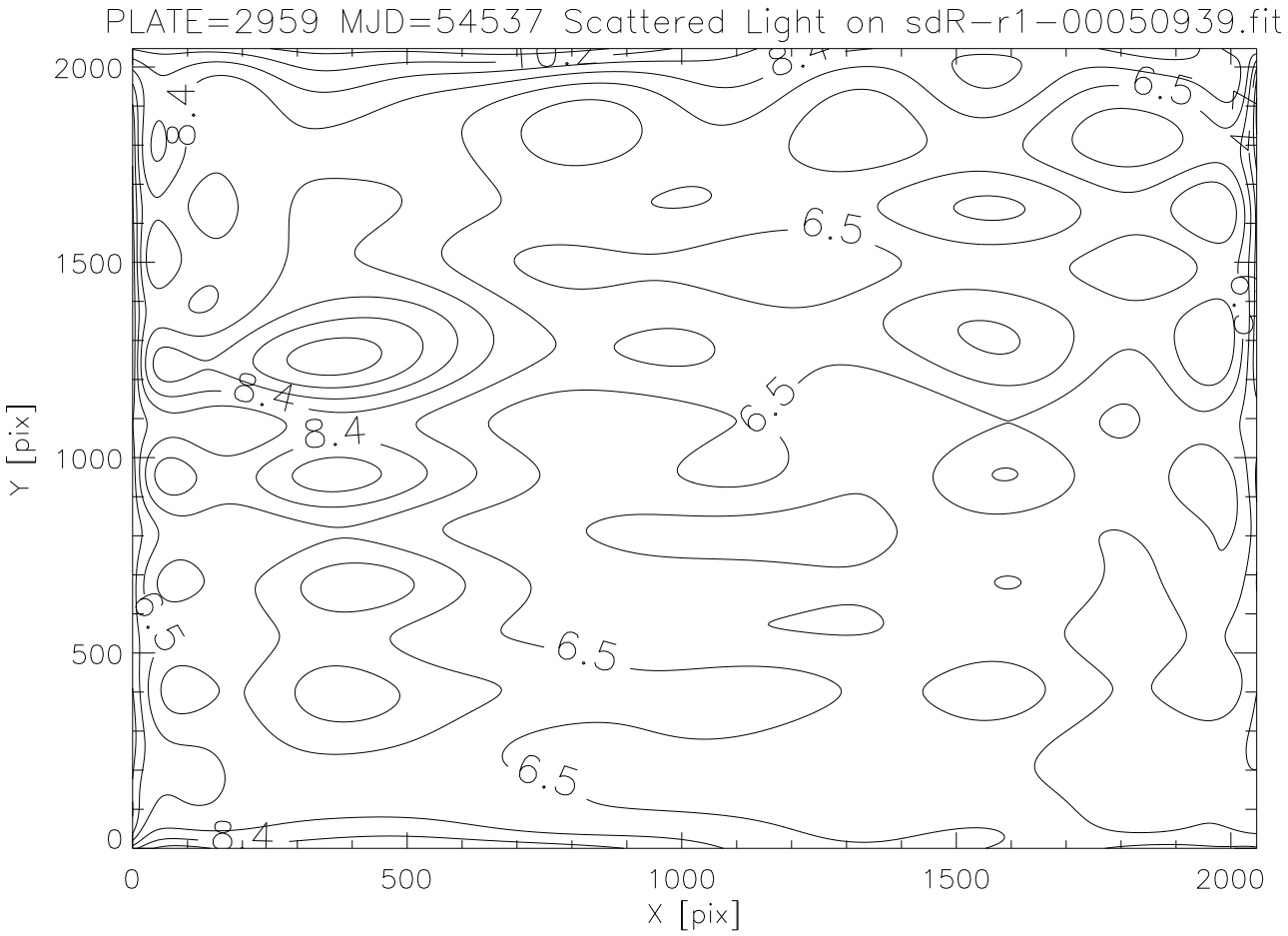

PLATE=2959 MJD=54537 sdR-r1-00050938.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 3.24 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

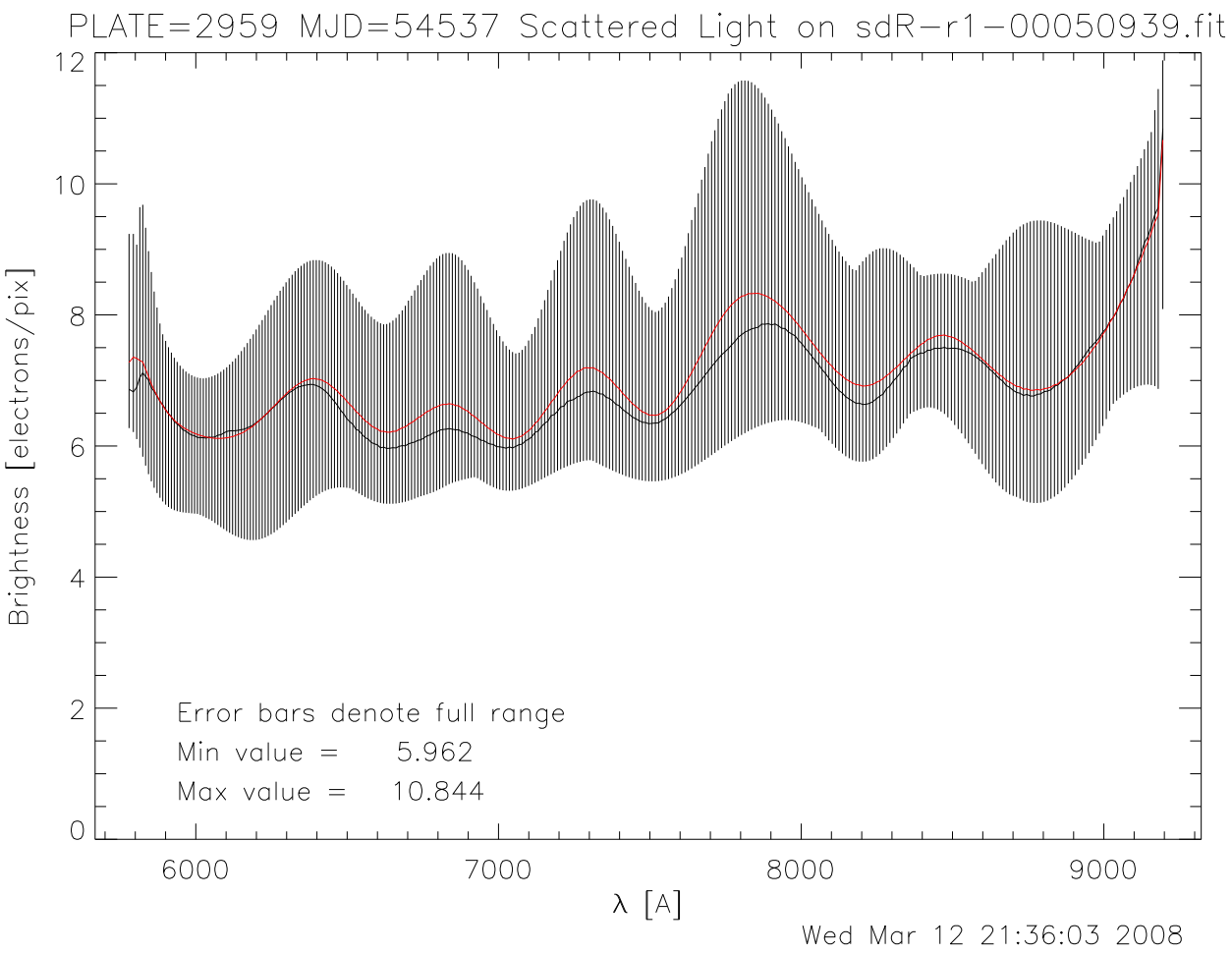

PLATE=2959 MJD=54537 sdR-r1-00050938.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.81 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

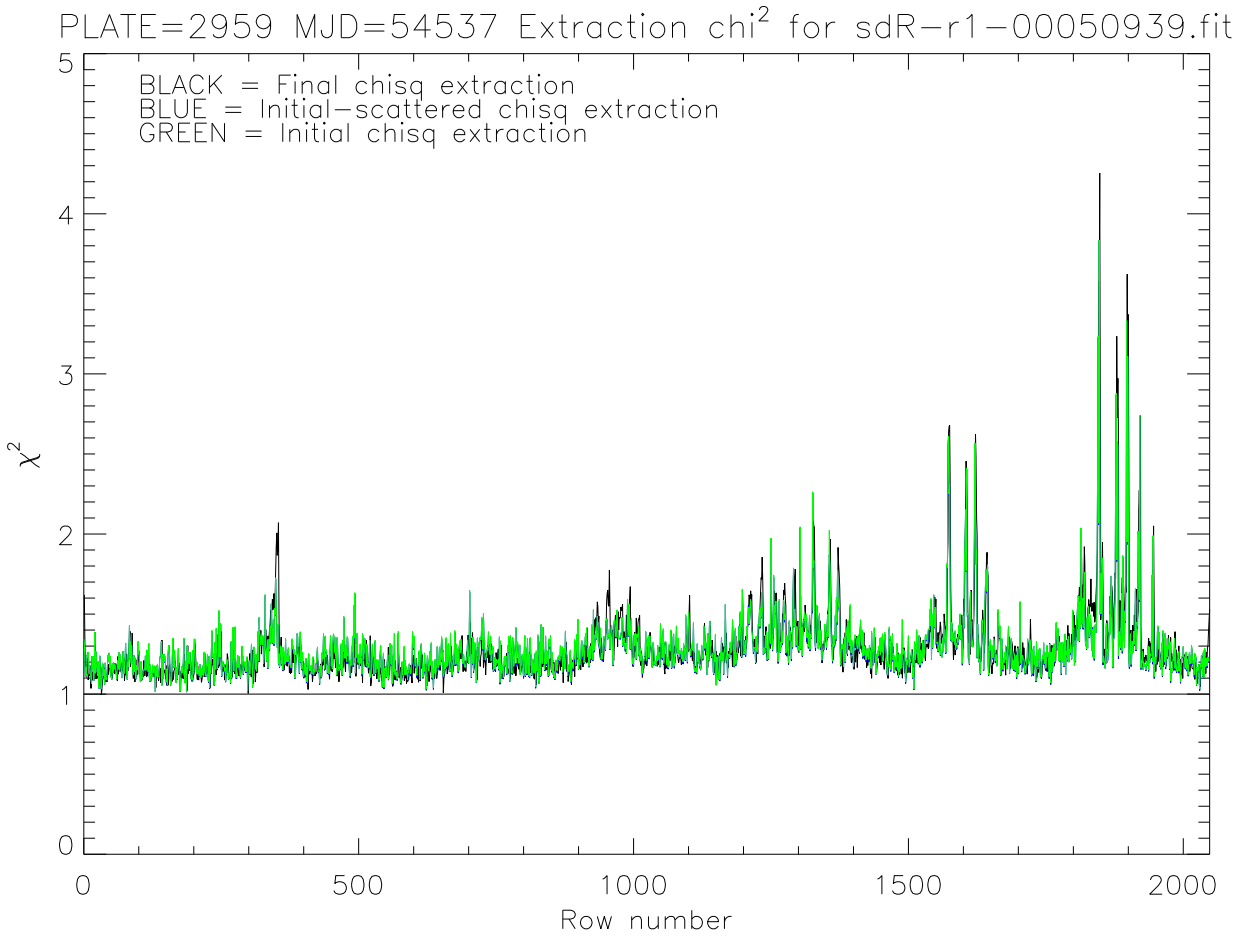

PLATE=2959 MJD=54537 Fiber-Flats for sdR-r1-00050940.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.179
Max value = 1.438
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 12 21:31:32 2008

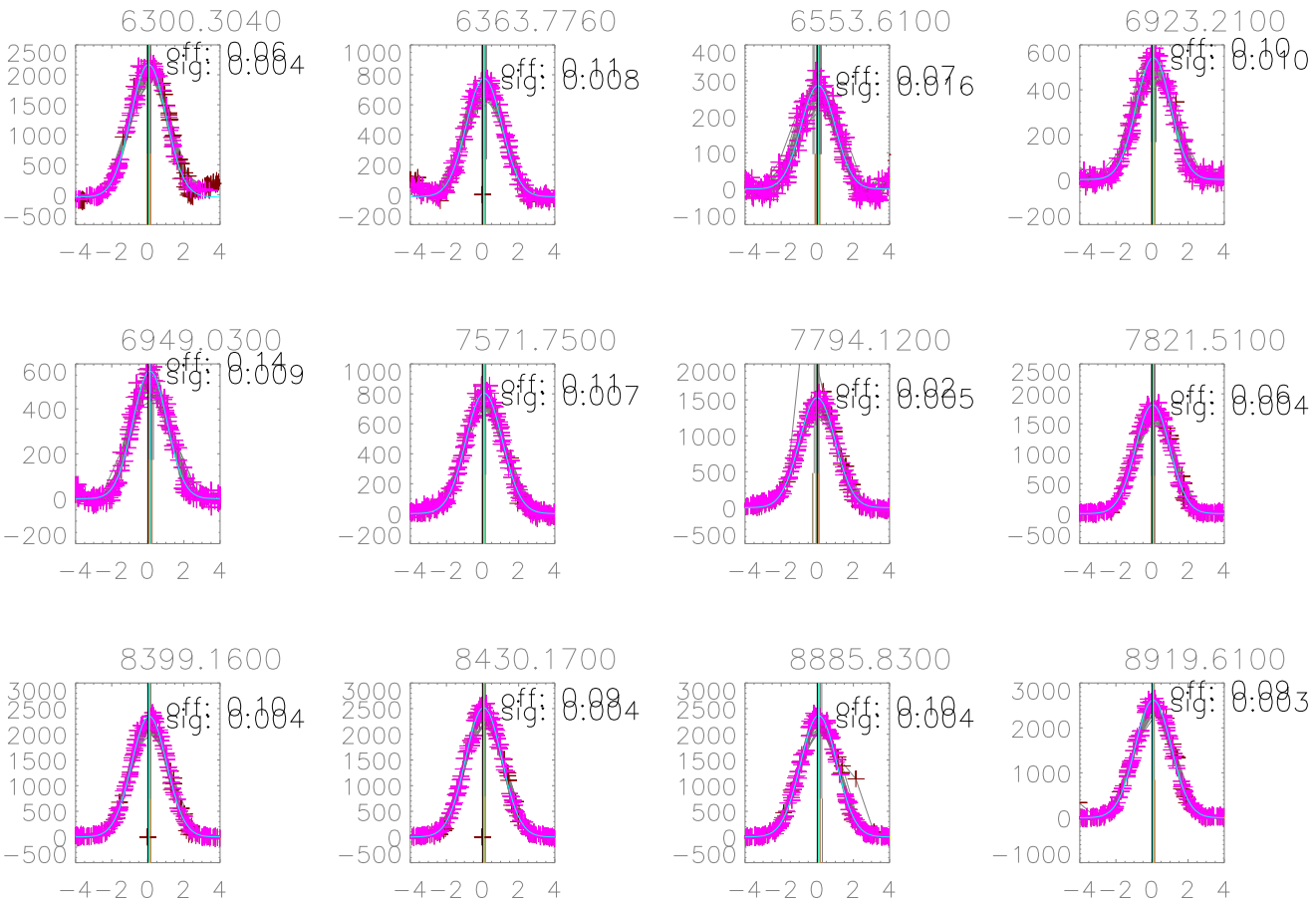

PLATE=2959 MJD=54537 Scattered Light before halo removal on sdR-r1-00050939.fi
28.6
22.3
15.9
9.5
Y [pix]
X [pix]
0
500
1000
1500
2000

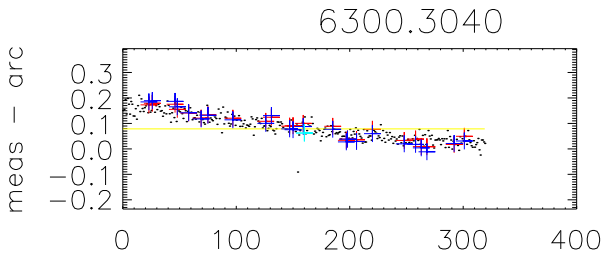

PLATE=2959 MJD=54537 Scattered Light before halo removal on sdR-r1-00050939.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.950
Max value = 29.006
Wed Mar 12 21:32:28 2008

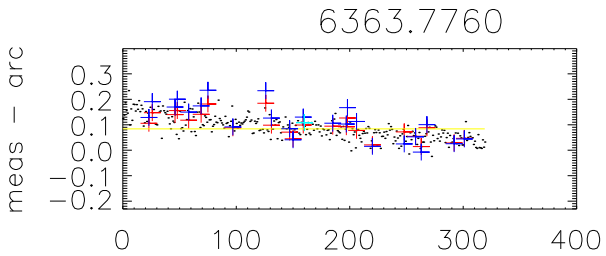

PLATE=2959 MJD=54537 Scattered Light on sdR−r1−00050939.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
8.4
6.5

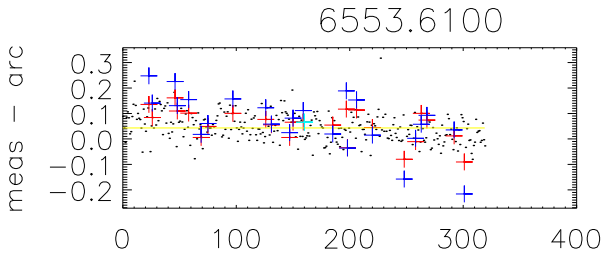

PLATE=2959 MJD=54537 Scattered Light on sdR-r1-00050939.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.962
Max value = 10.844
Wed Mar 12 21:36:03 2008

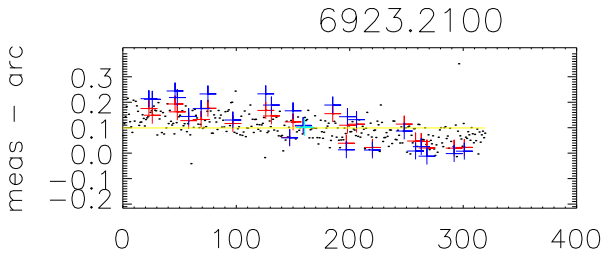

PLATE=2959 MJD=54537 Extraction chi^2 for sdR−r1−00050939.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

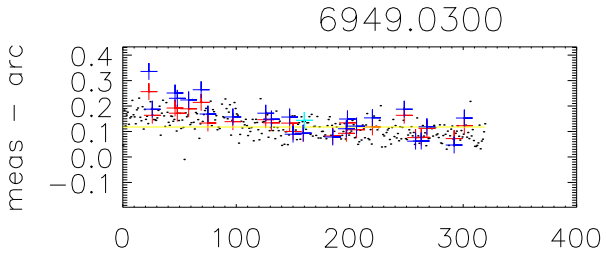

6300.3040
off: 0.06
sig: 0.004
6363.7760
off: 0.11
sig: 0.008
6553.6100
off: 0.07
sig: 0.016
6923.2100
off: 0.10
sig: 0.010
6949.0300
off: 0.14
sig: 0.009
7571.7500
off: 0.11
sig: 0.007
7794.1200
off: 0.02
sig: 0.005
7821.5100
off: 0.06
sig: 0.004
8399.1600
off: 0.10
sig: 0.004
8430.1700
off: 0.09
sig: 0.004
8885.8300
off: 0.10
sig: 0.004
8919.6100
off: 0.08
sig: 0.003

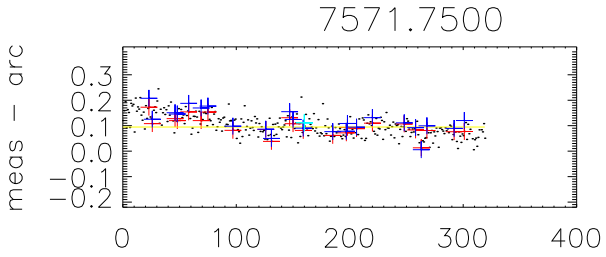

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

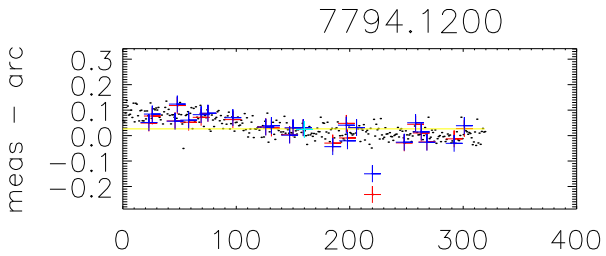

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

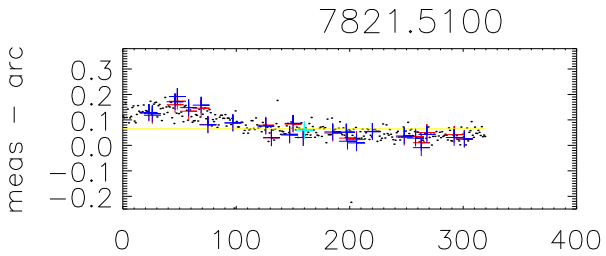

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

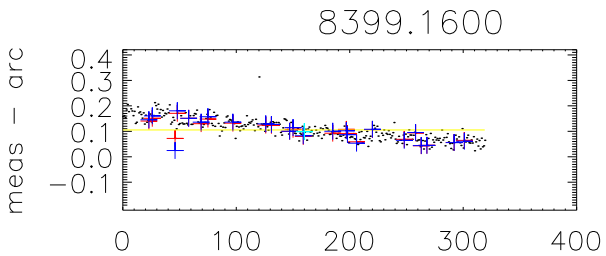

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

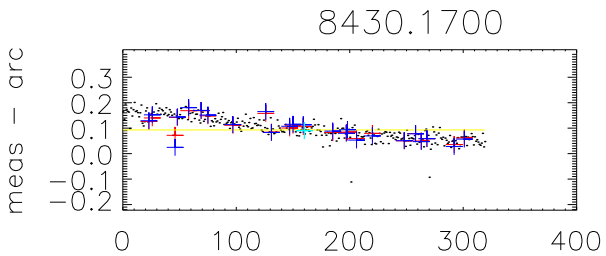

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

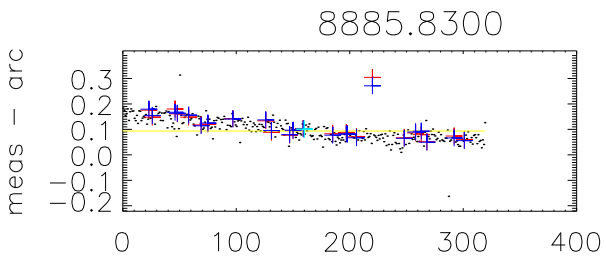

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

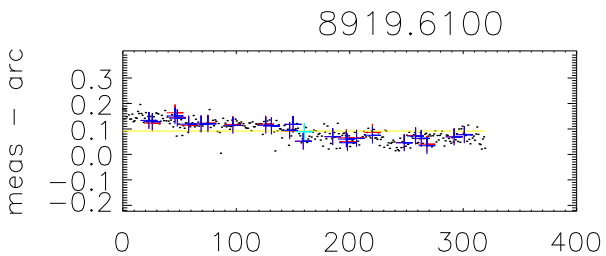

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

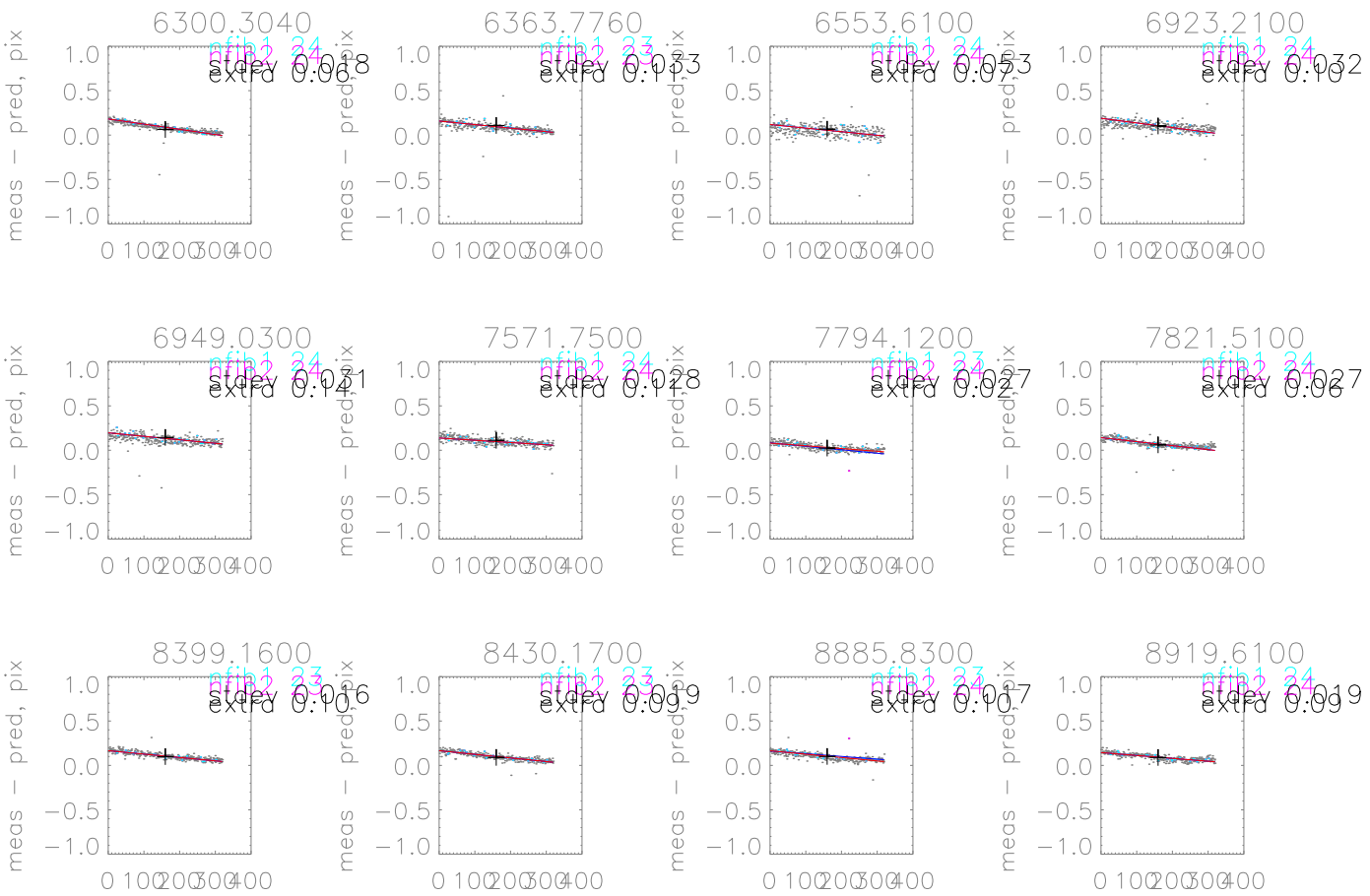

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

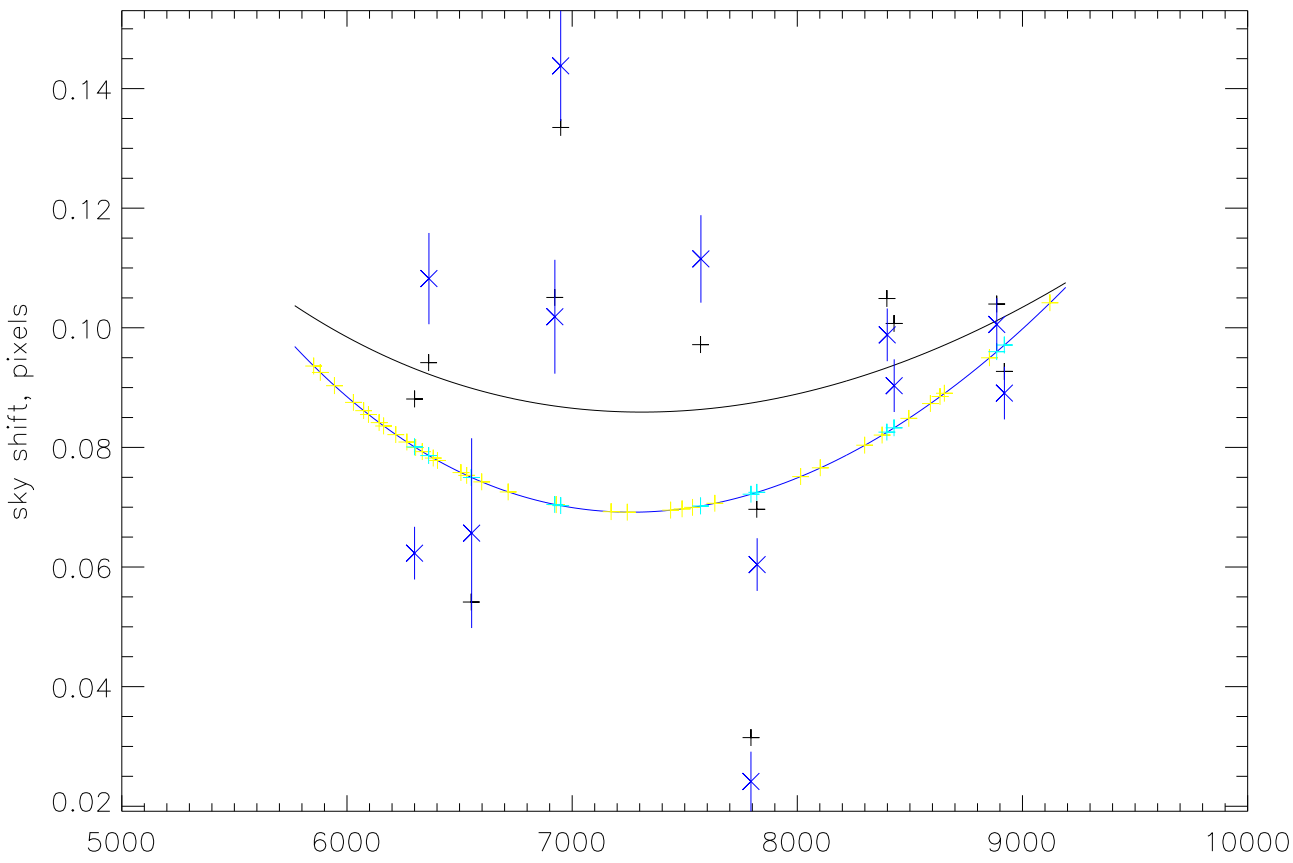

8399.1600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

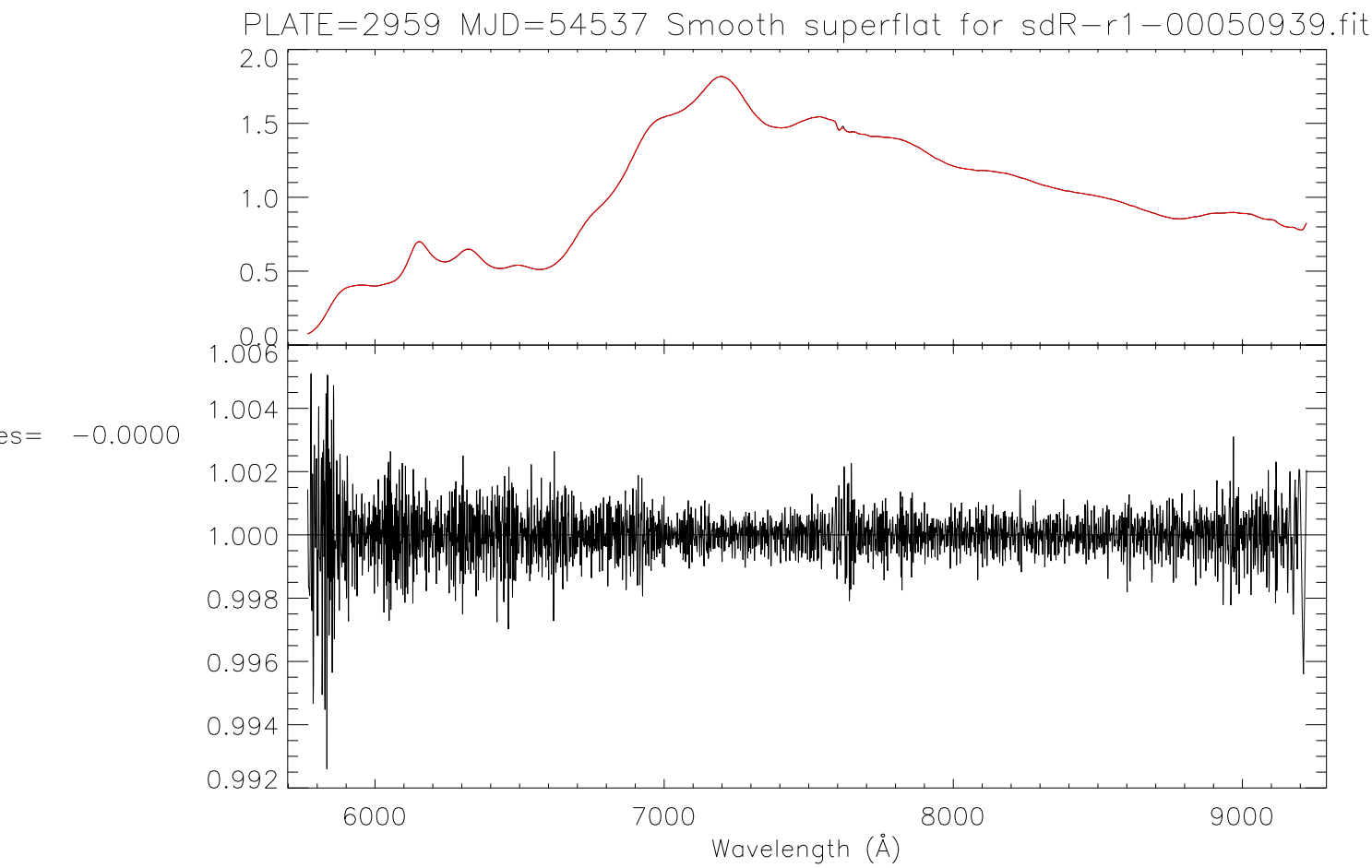

8430.1700
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

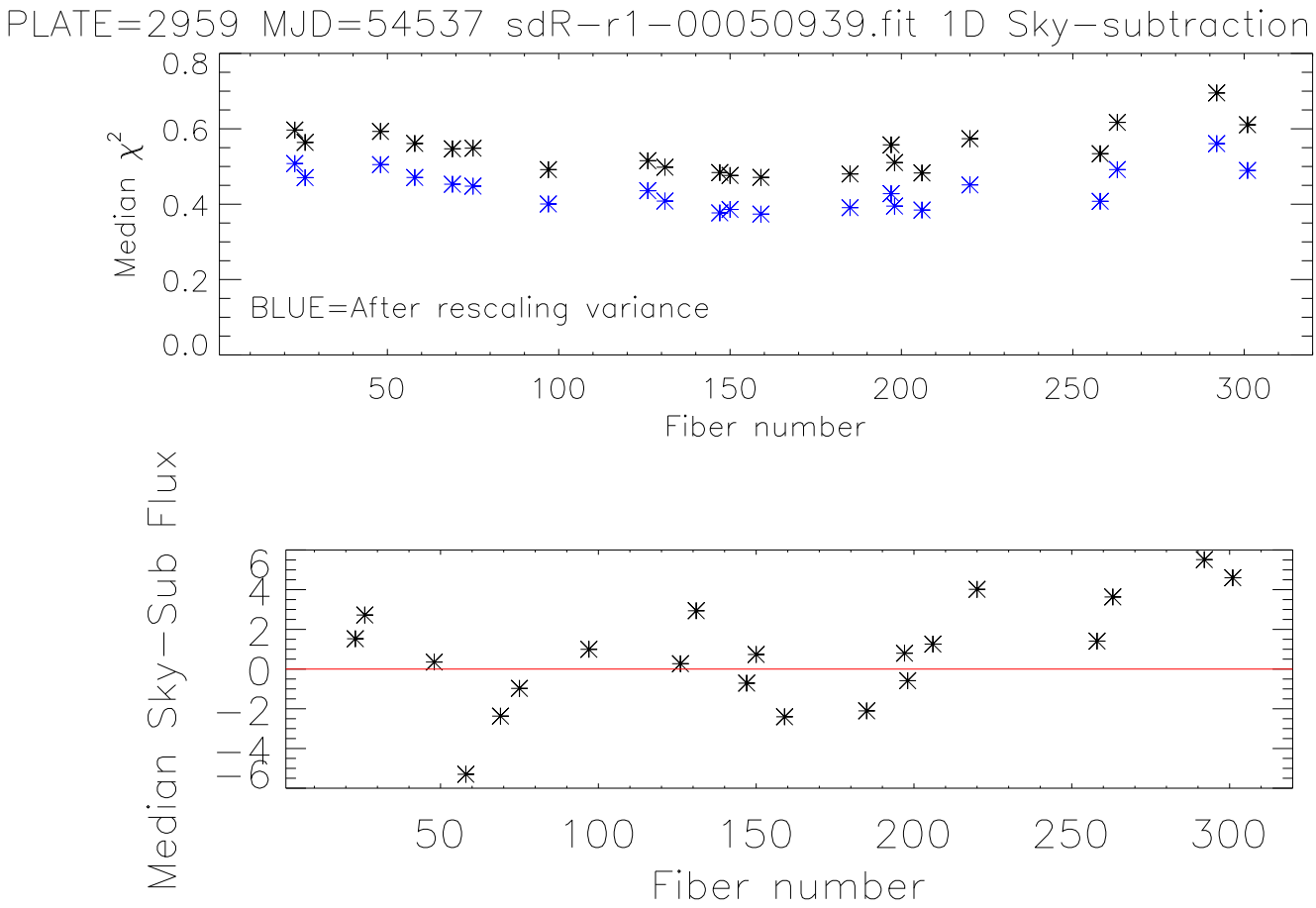

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


6300.3040
stdev 0.018
extra 0.068
6363.7760
stdev 0.033
extra 0.113
6553.6100
stdev 0.053
extra 0.073
6923.2100
stdev 0.032
extra 0.110
6949.0300
stdev 0.031
extra 0.141
7571.7500
stdev 0.028
extra 0.112
7794.1200
stdev 0.027
extra 0.027
7821.5100
stdev 0.027
extra 0.066
8399.1600
stdev 0.016
extra 0.110
8430.1700
stdev 0.049
extra 0.099
8885.8300
stdev 0.017
extra 0.110
8919.6100
stdev 0.019
extra 0.099
meas − pred, pix
mfib1 24
mfib2 23

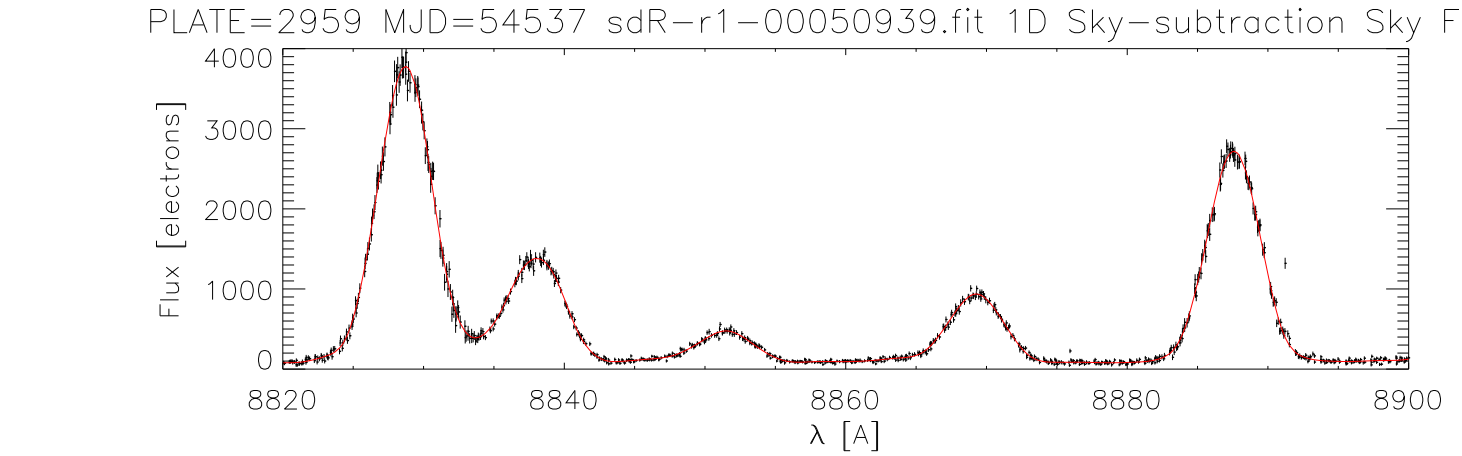

sky shift, pixels
0.14
0.12
0.10
0.08
0.06
0.04
0.02
5000
6000
7000
8000
9000
10000

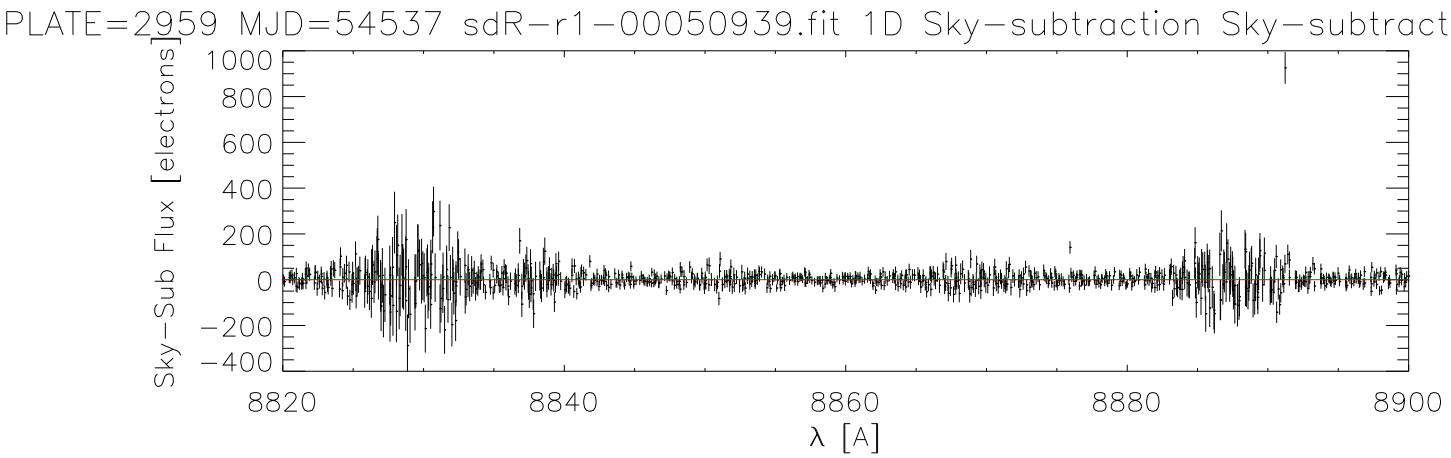

PLATE=2959 MJD=54537 Smooth superflat for sdR-r1-00050939.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
6000
7000
8000
9000
Wavelength (Å)

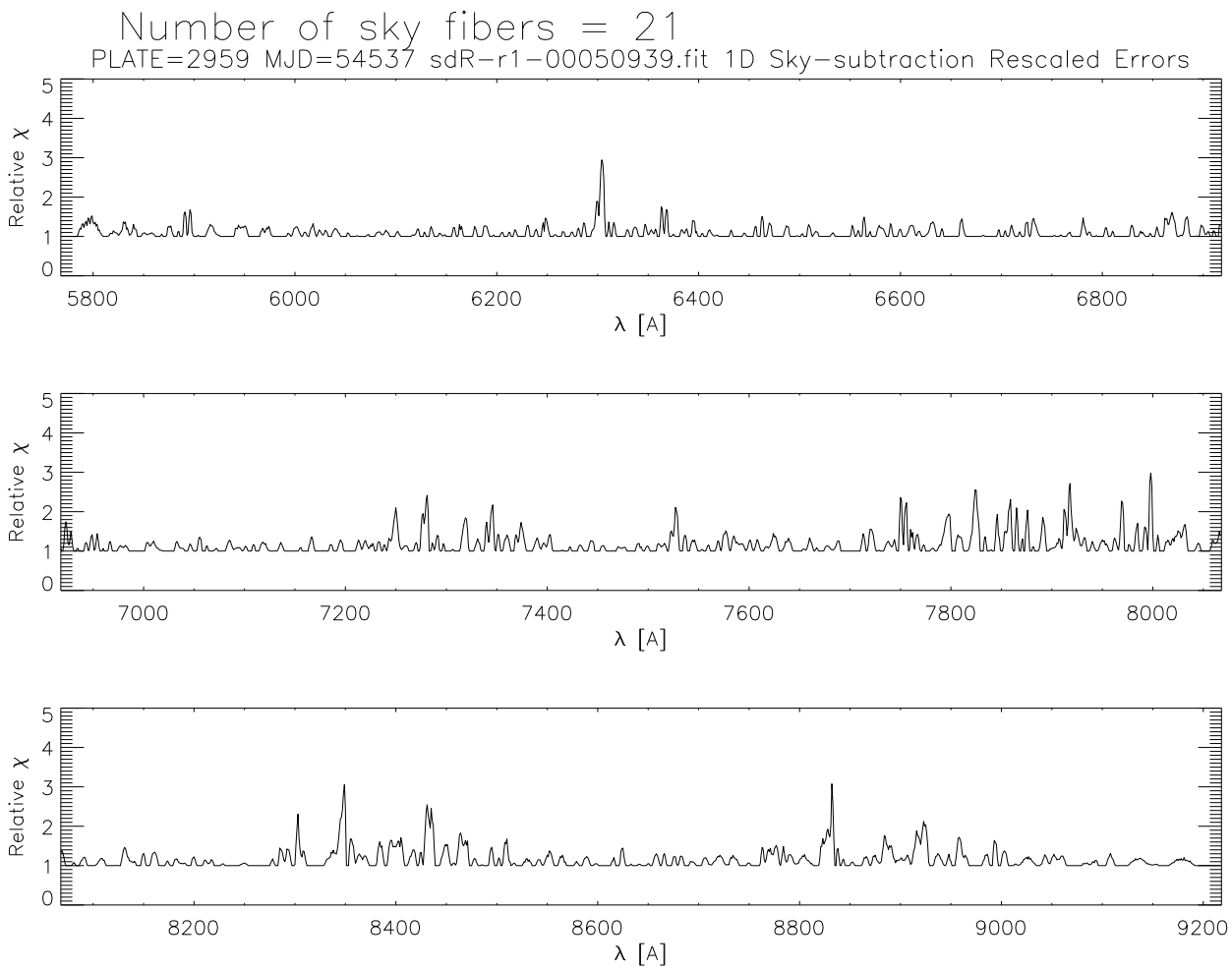
es= −0.0000

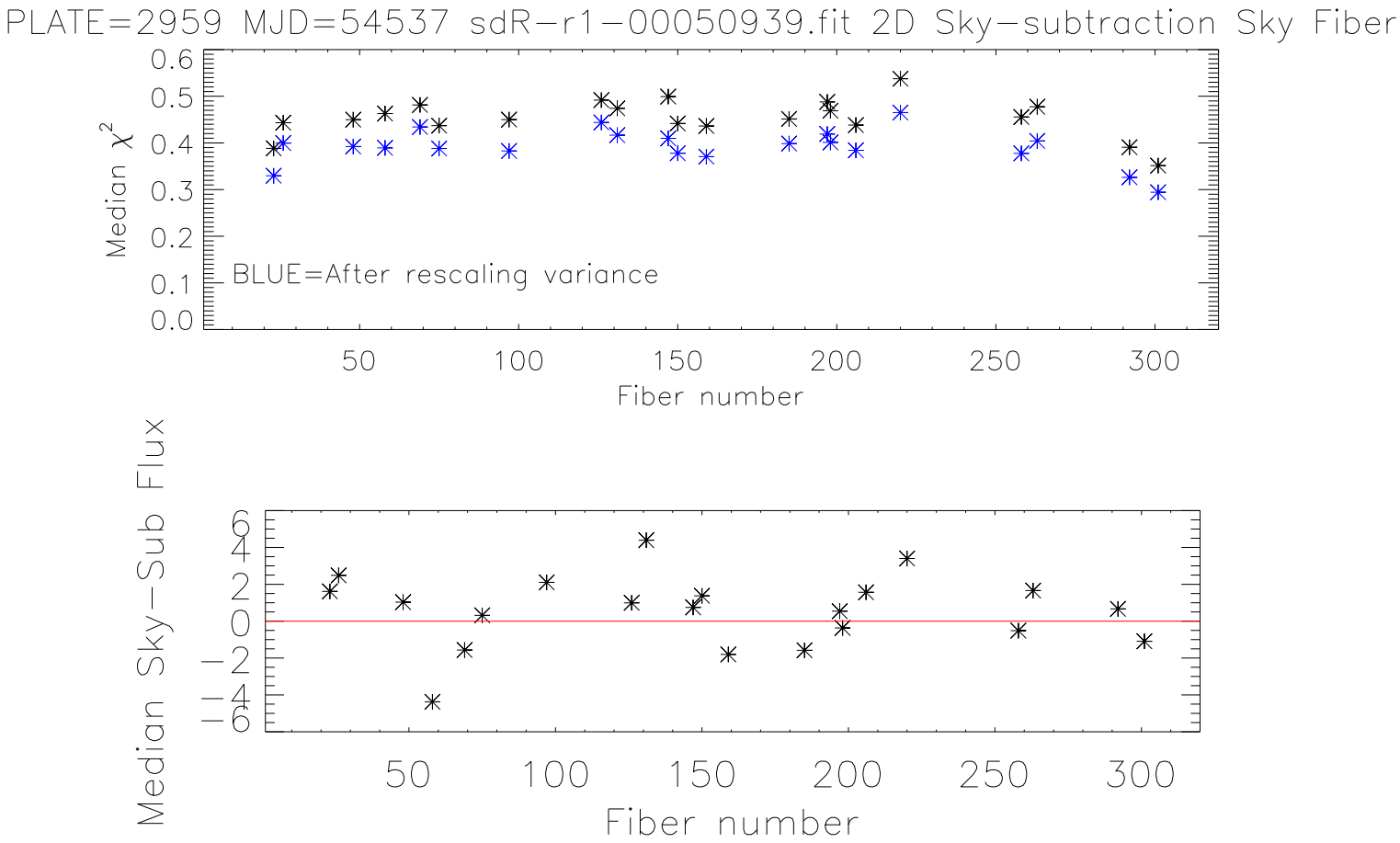

PLATE=2959 MJD=54537 sdR-r1-00050939.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

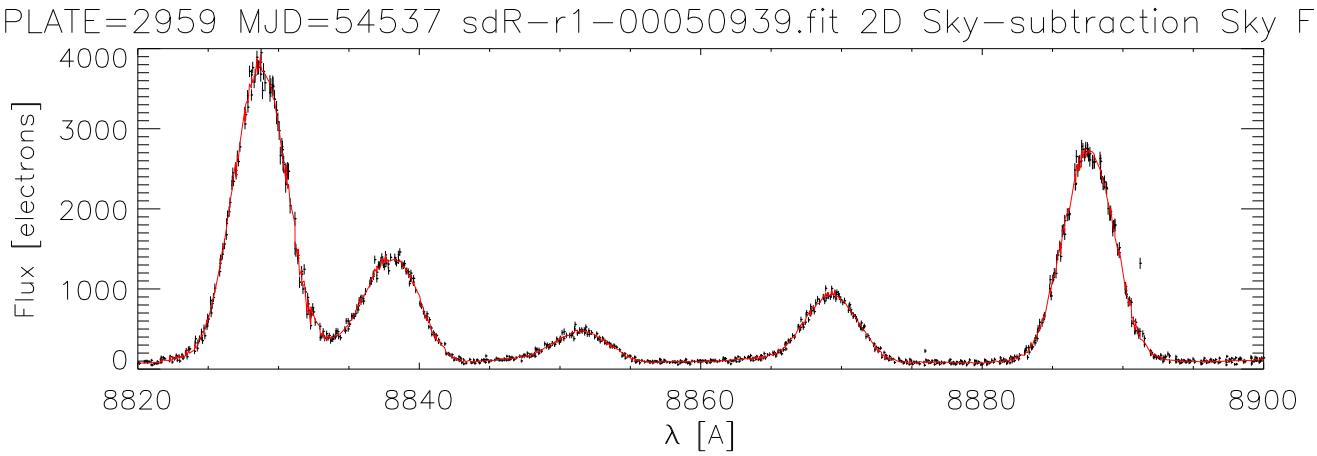
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

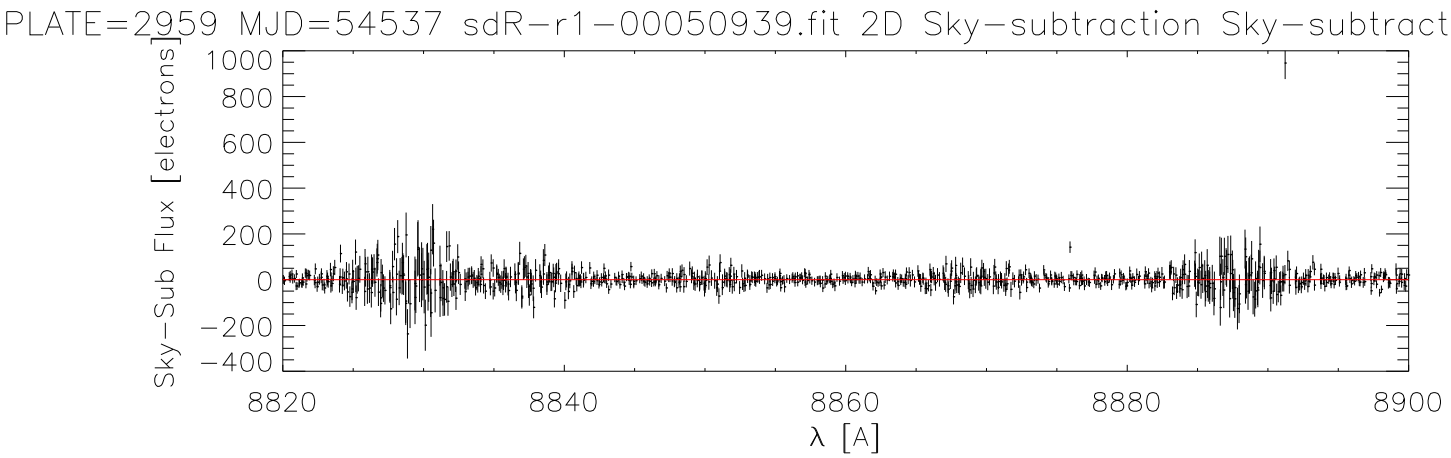

PLATE=2959 MJD=54537 sdR-r1-00050939.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

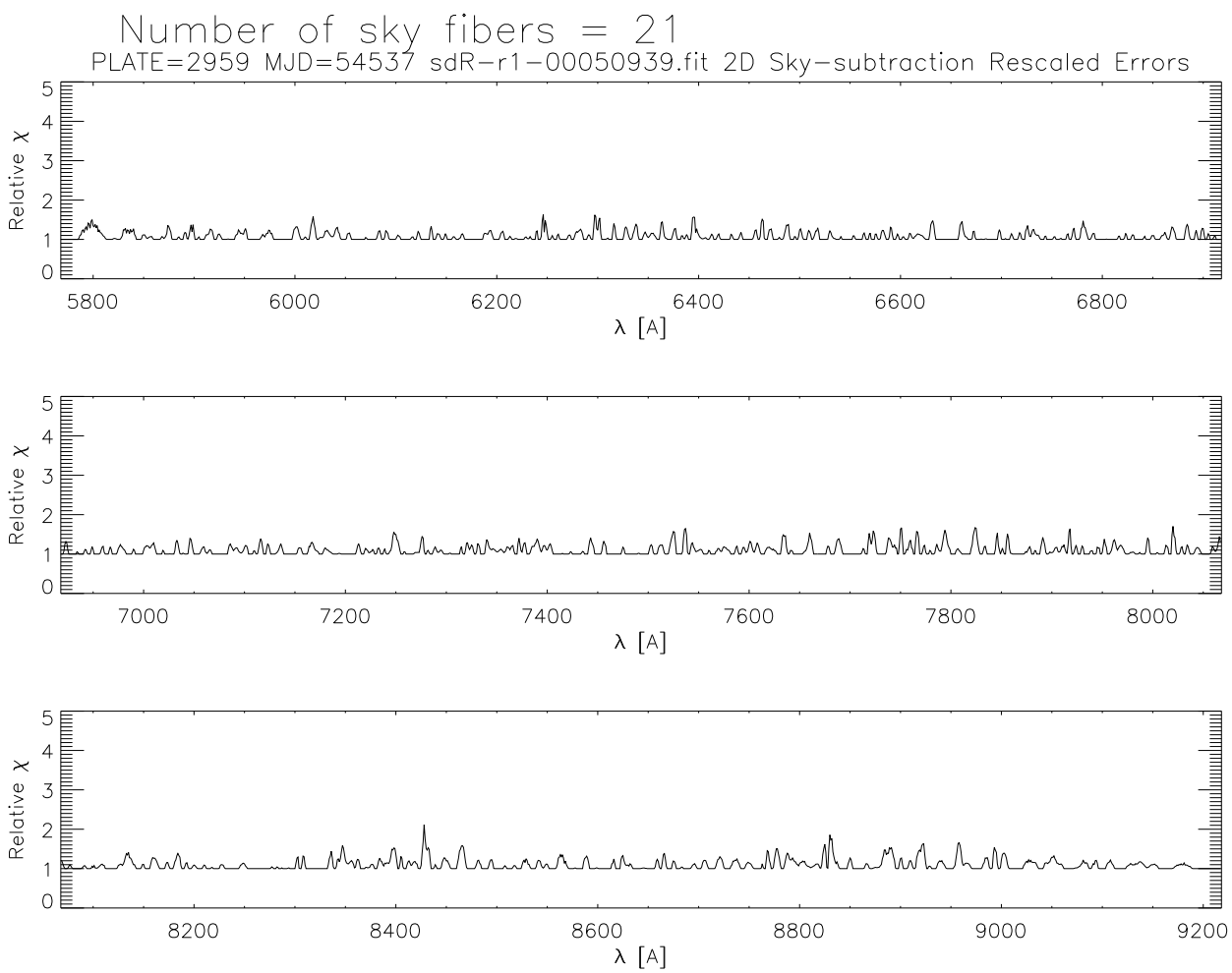

PLATE=2959 MJD=54537 sdR-r1-00050939.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
800
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

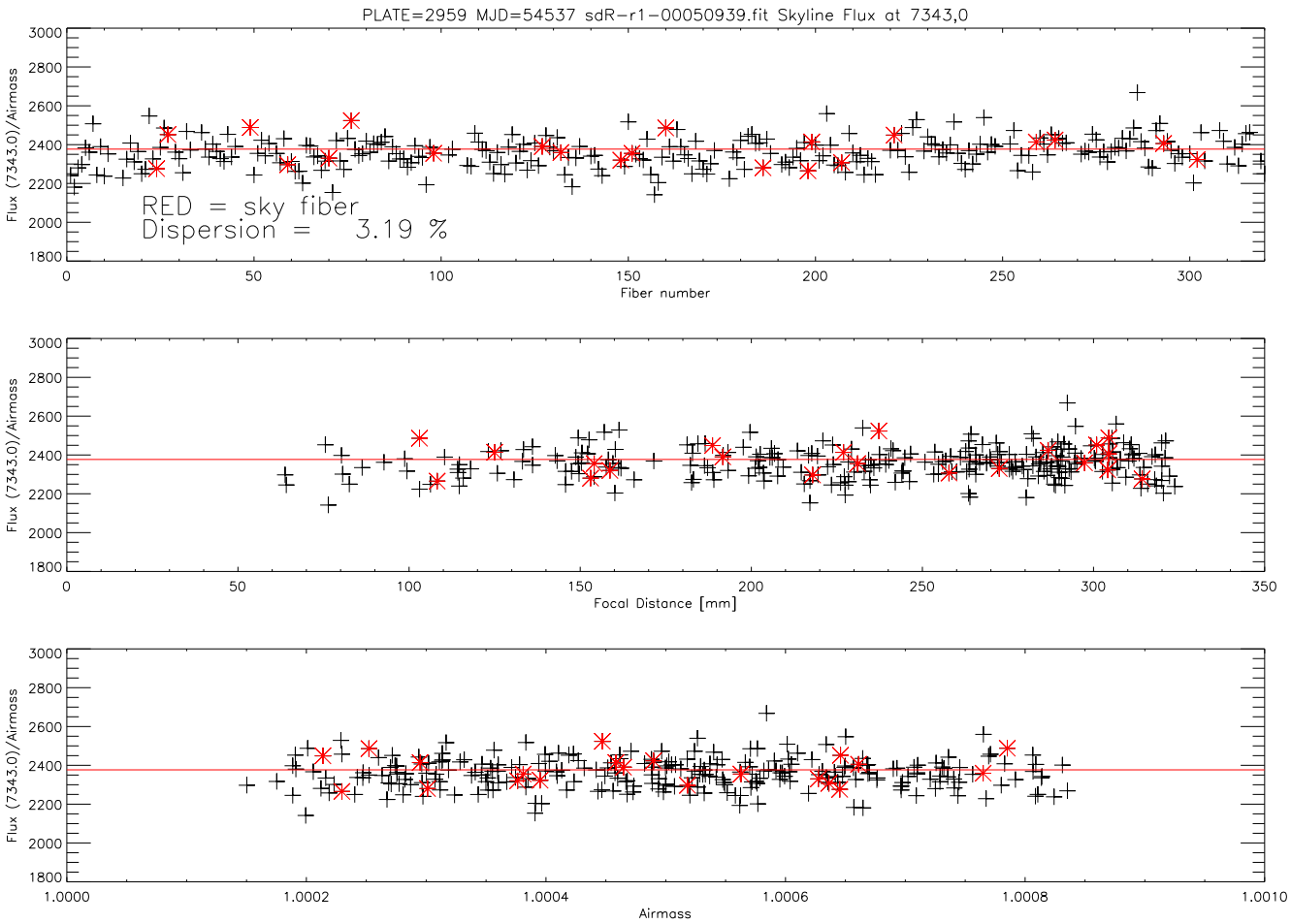

Number of sky fibers = 21
PLATE=2959 MJD=54537 sdR-r1-00050939.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

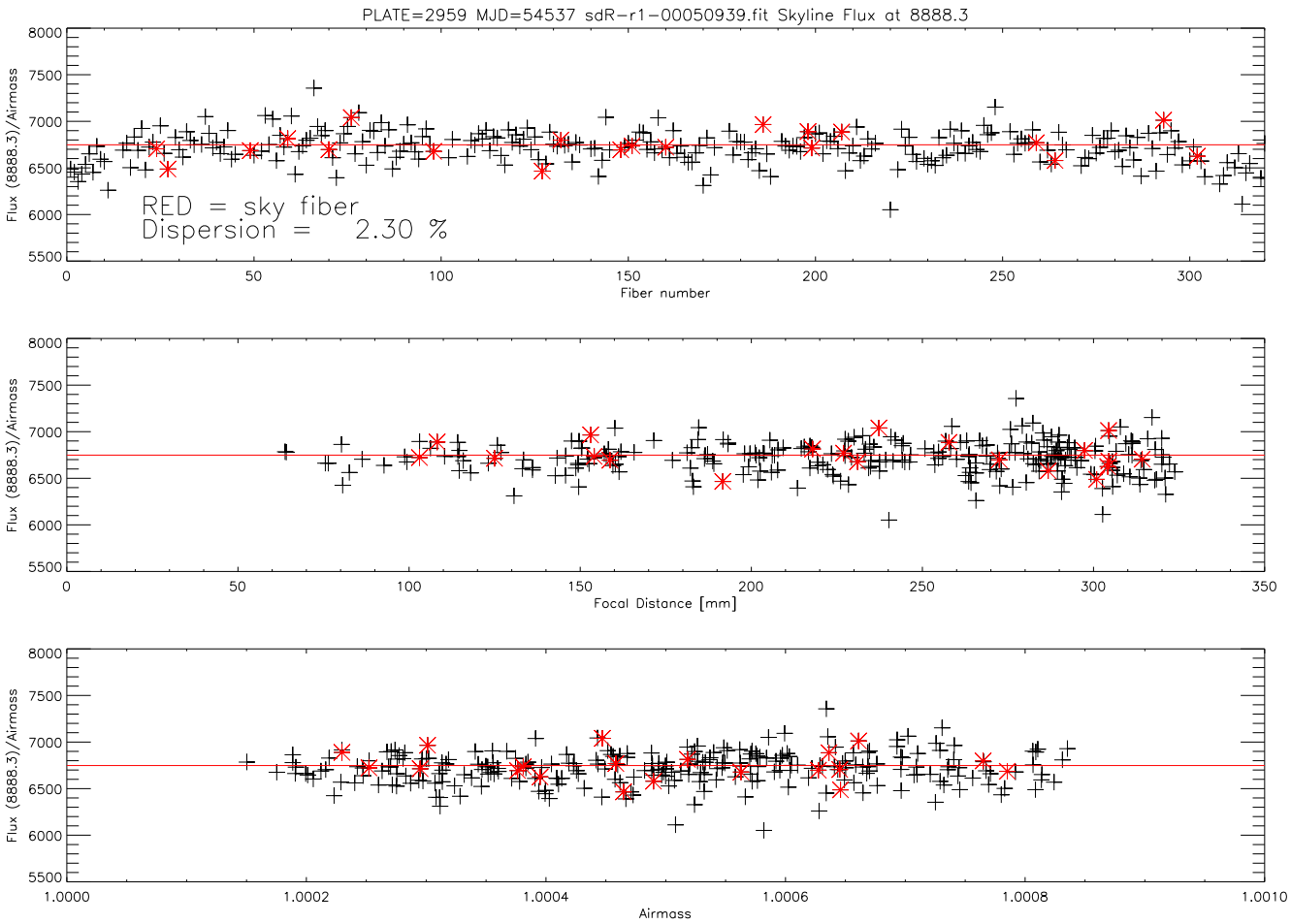

PLATE=2959 MJD=54537 sdR-r1-00050939.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

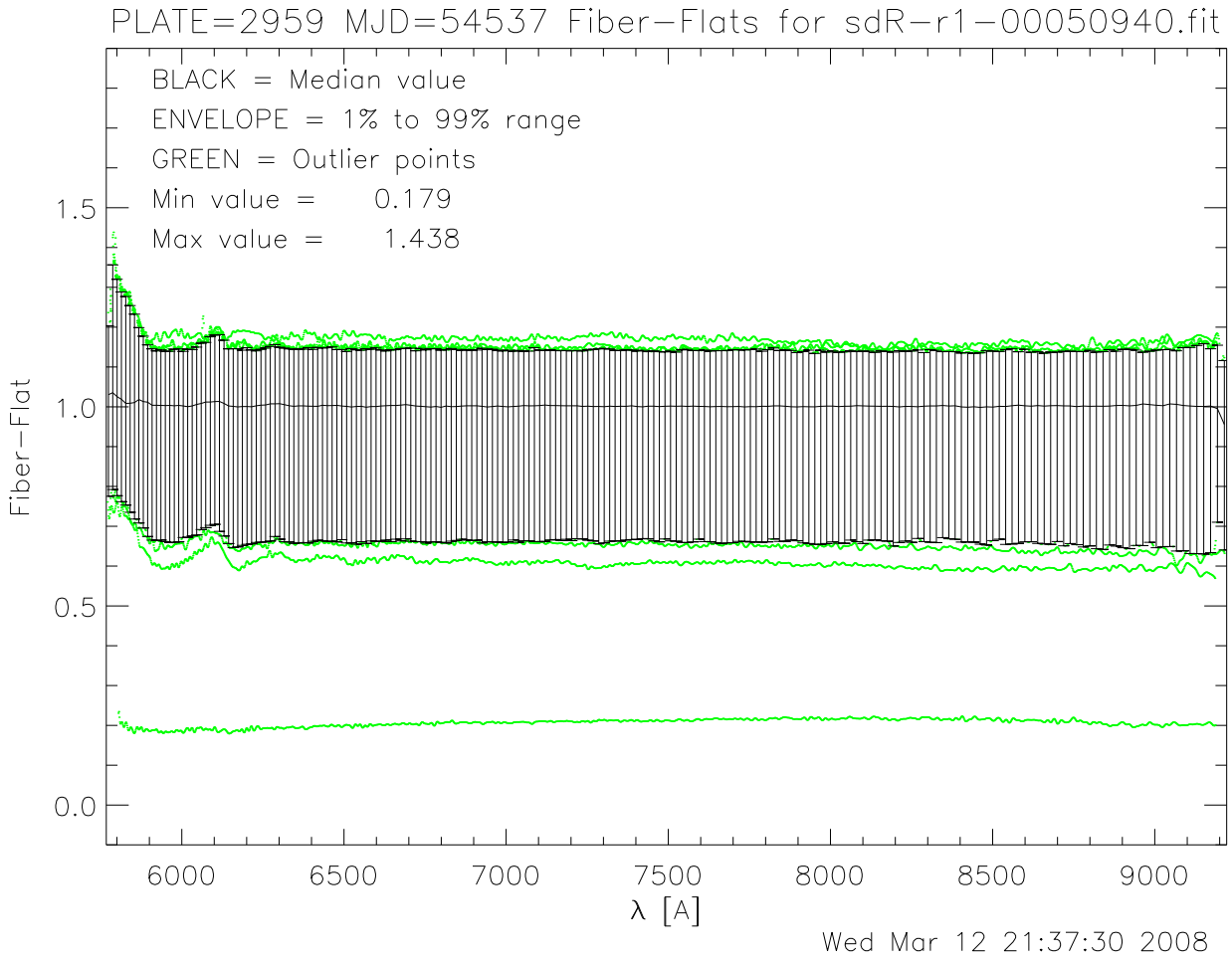

PLATE=2959 MJD=54537 sdR-r1-00050939.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

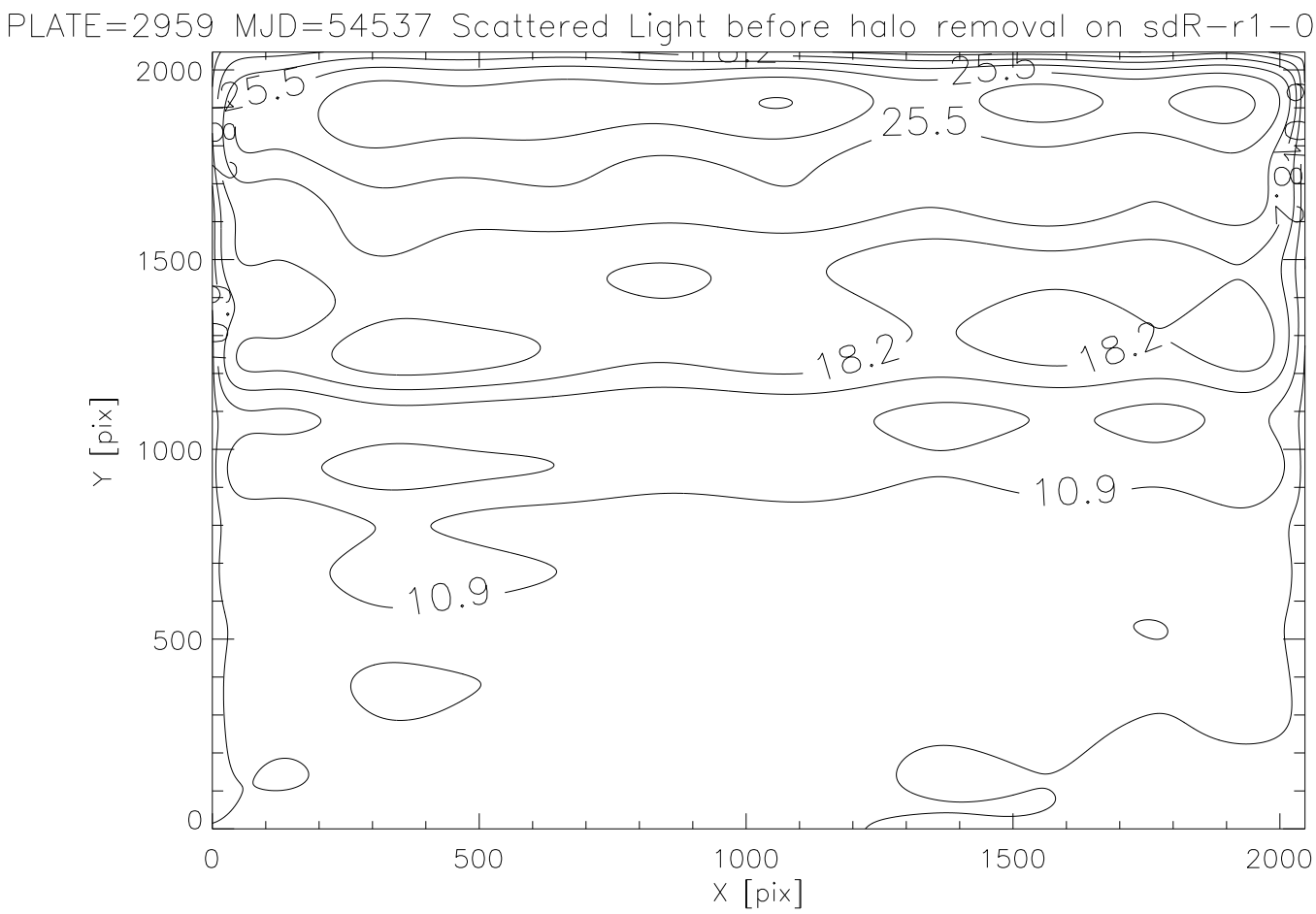

PLATE=2959 MJD=54537 sdR-r1-00050939.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
800
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

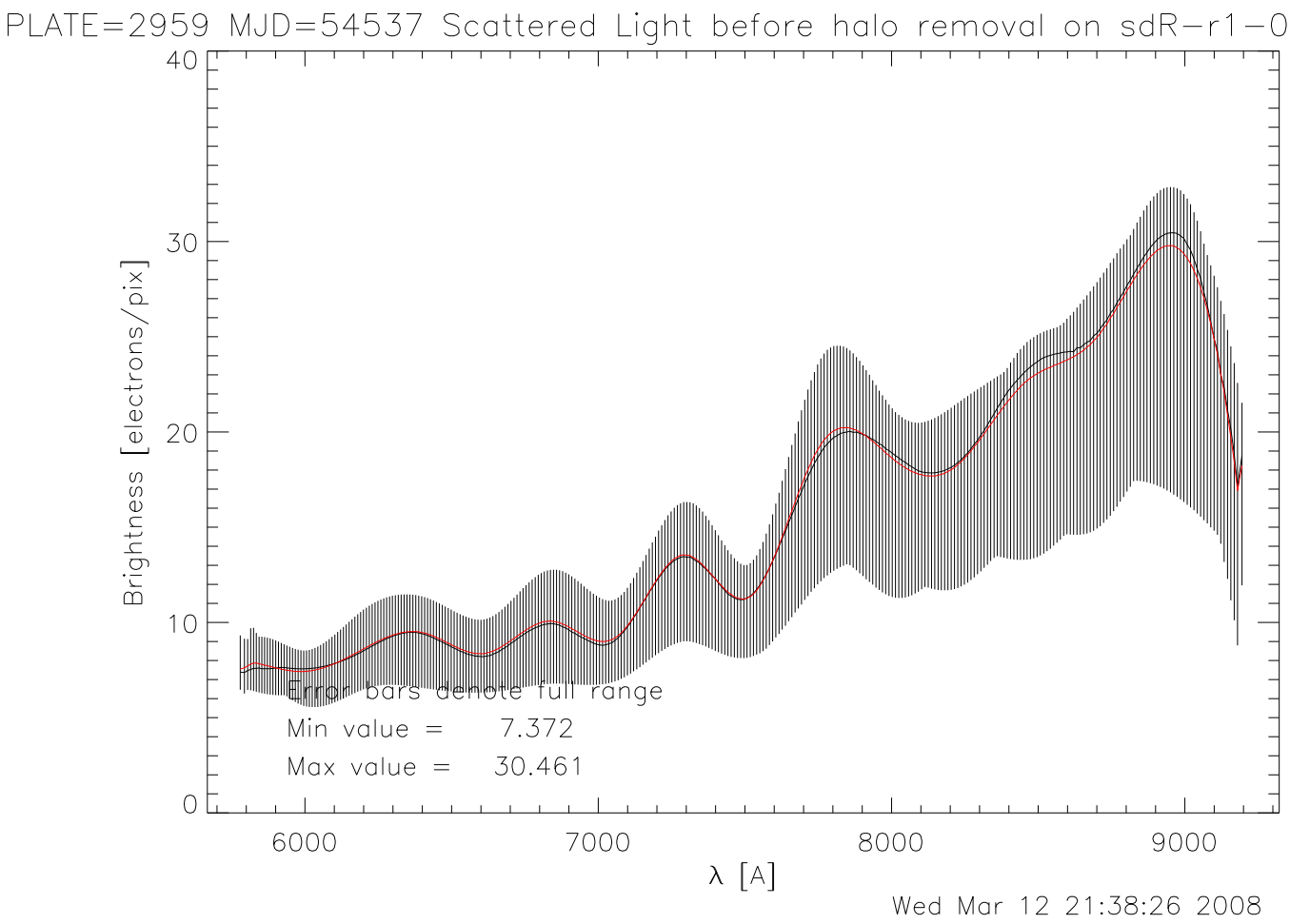

Number of sky fibers = 21
PLATE=2959 MJD=54537 sdR-r1-00050939.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

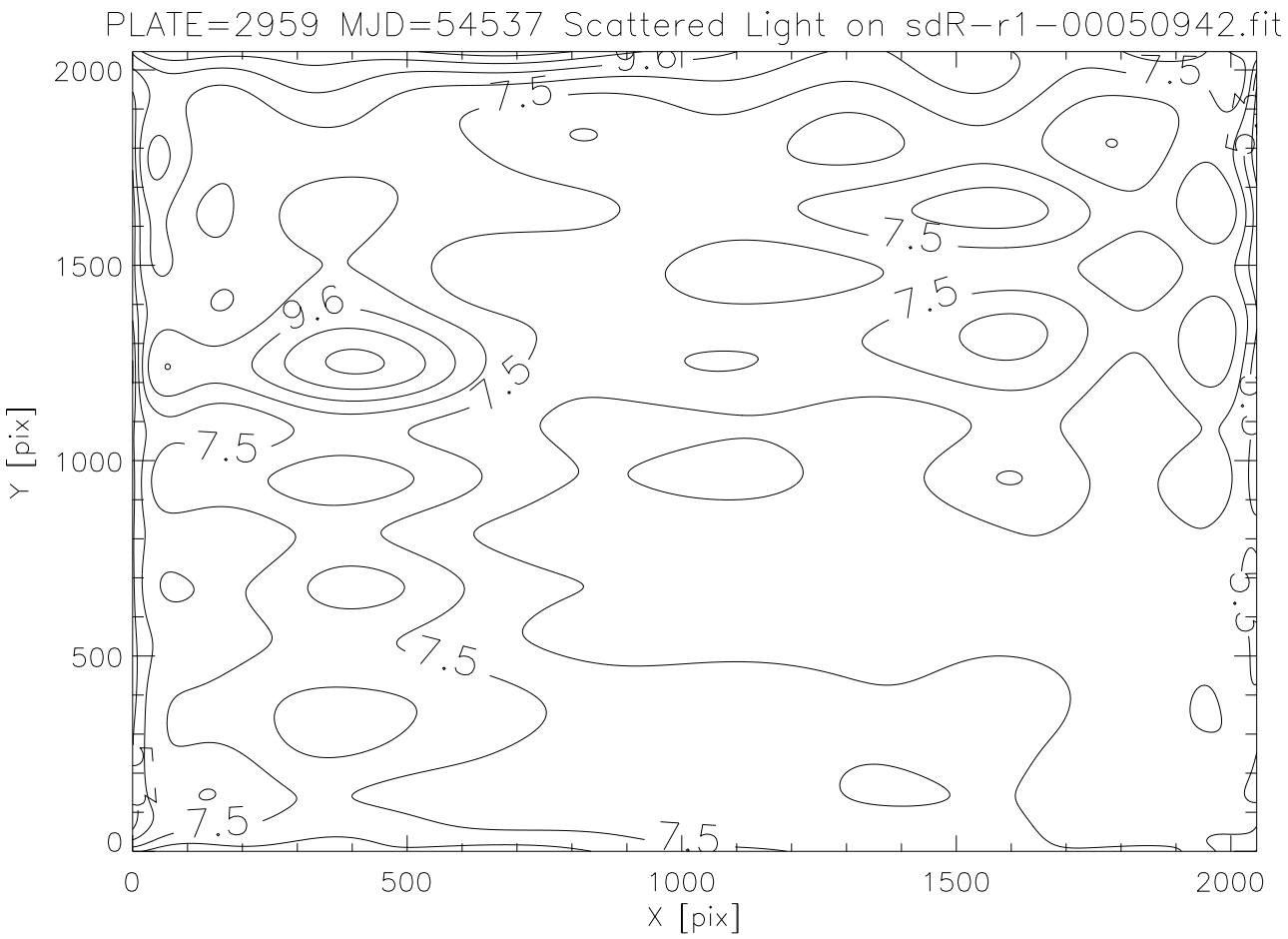

PLATE=2959 MJD=54537 sdR-r1-00050939.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.19 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

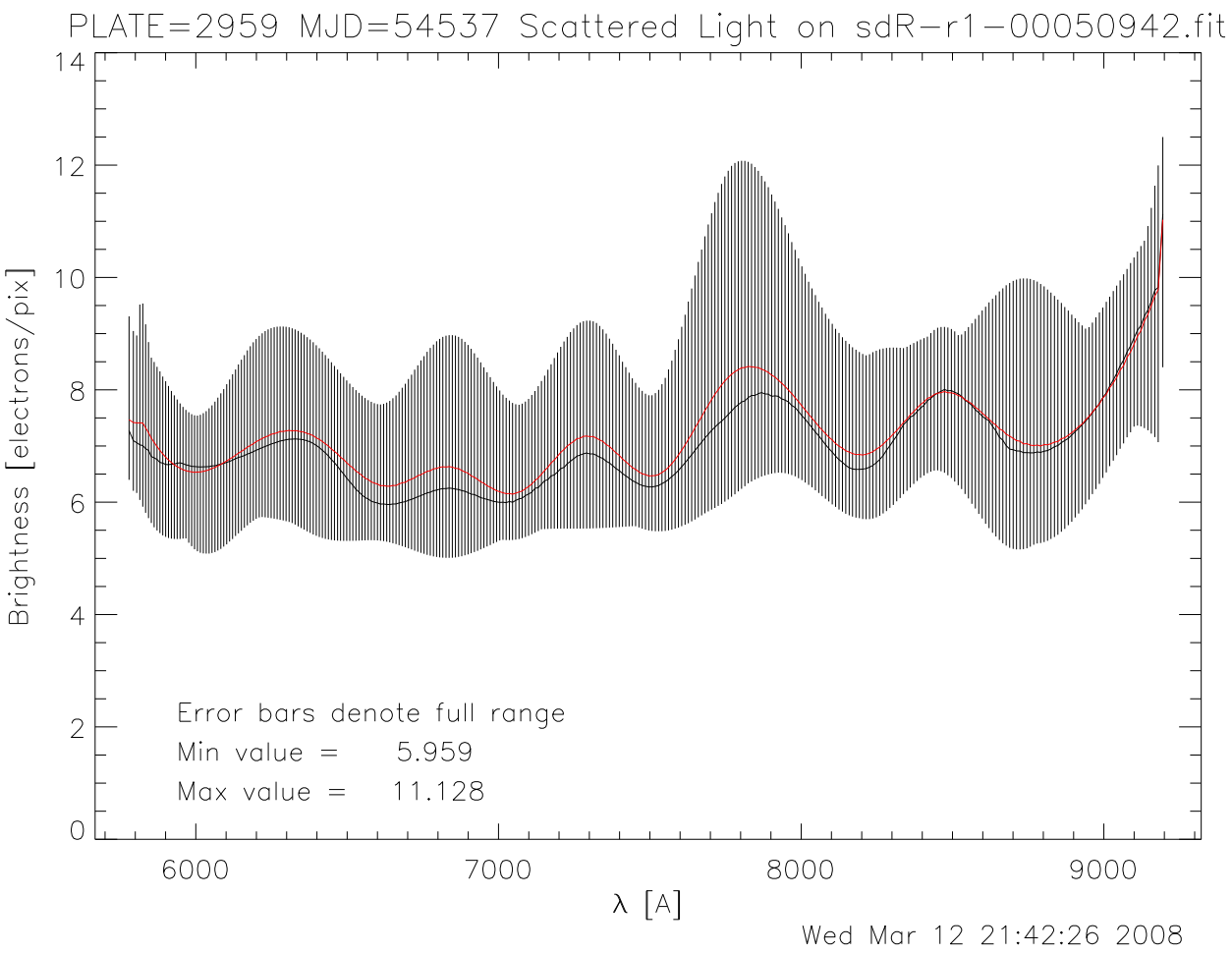

PLATE=2959 MJD=54537 sdR-r1-00050939.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.30 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

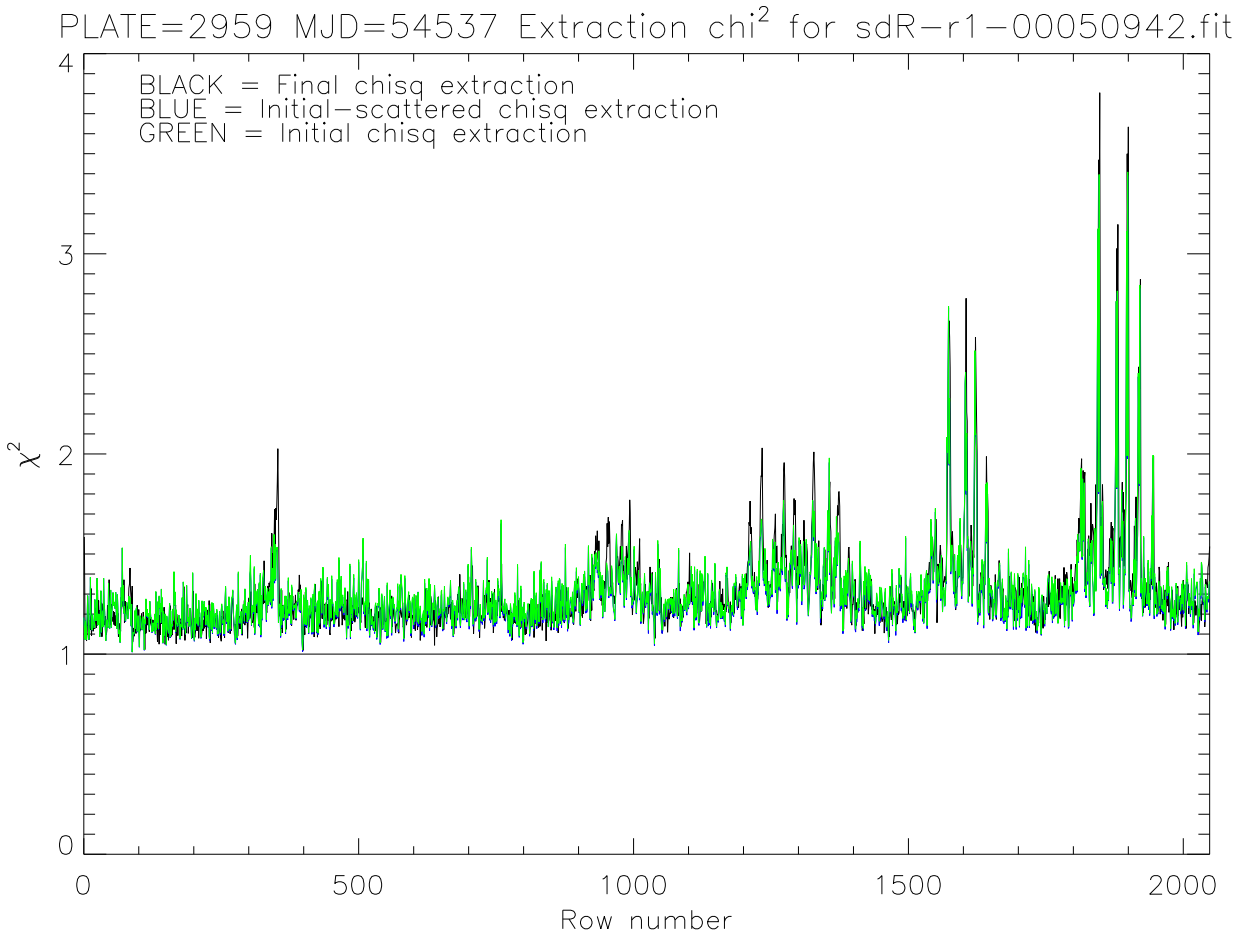

PLATE=2959 MJD=54537 Fiber−Flats for sdR−r1−00050940.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.179
Max value = 1.438
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 12 21:37:30 2008

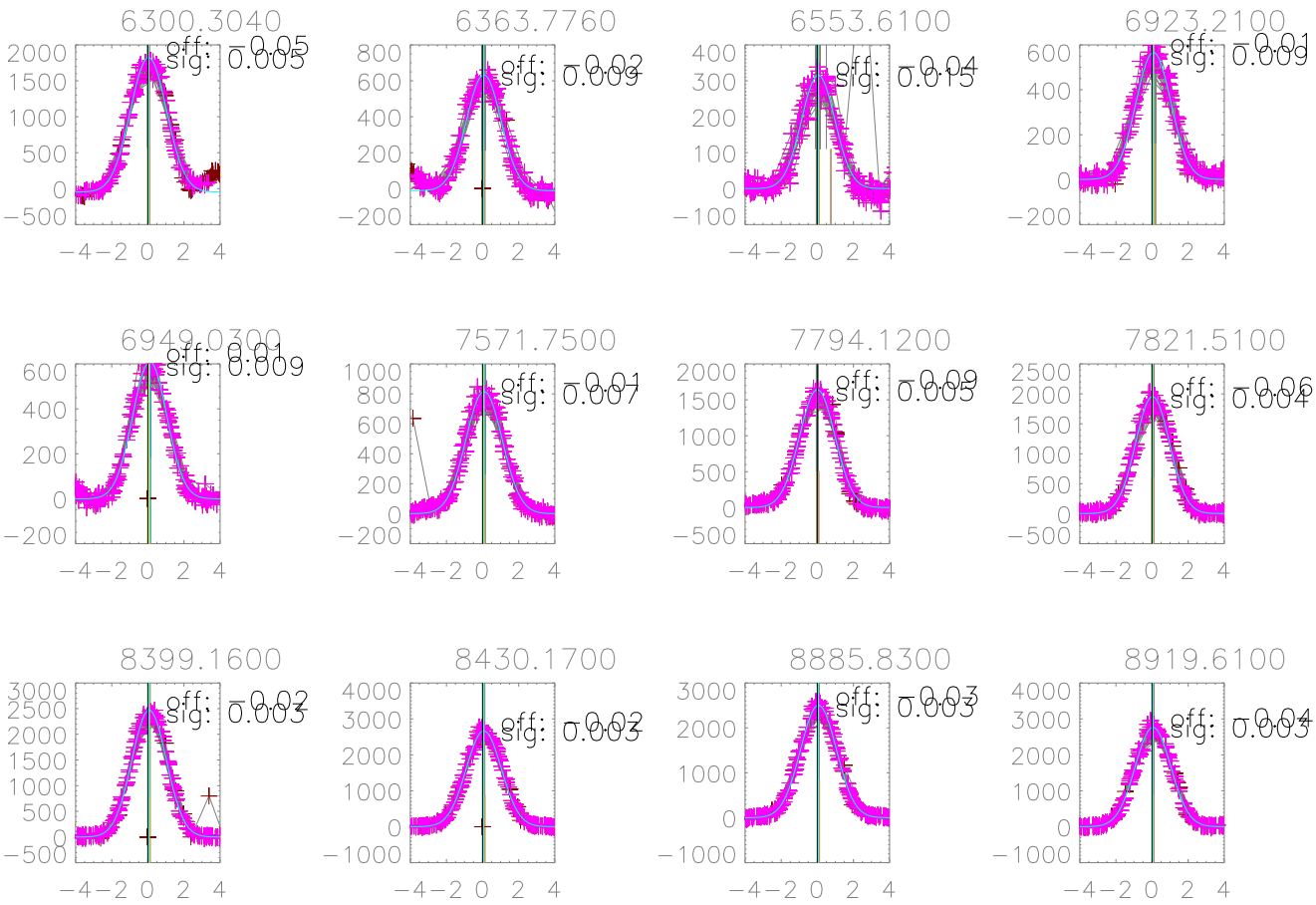

PLATE=2959 MJD=54537 Scattered Light before halo removal on sdR−r1−00050942.fi
25.5
25.5
25.5
18.2
18.2
10.9
10.9
Y [pix]
X [pix]
0
500
1000
1500
2000

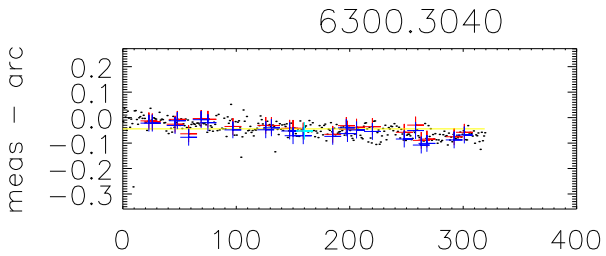

PLATE=2959 MJD=54537 Scattered Light before halo removal on sdR-r1-00050942.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.372
Max value = 30.461
Wed Mar 12 21:38:26 2008

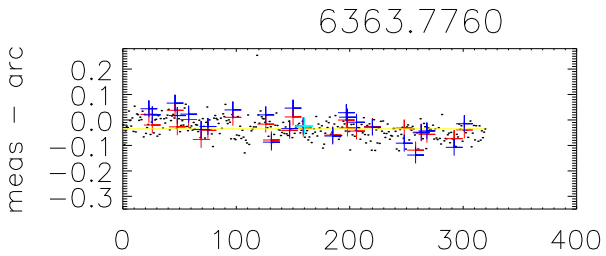

PLATE=2959 MJD=54537 Scattered Light on sdR-r1-00050942.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
9.6
7.5

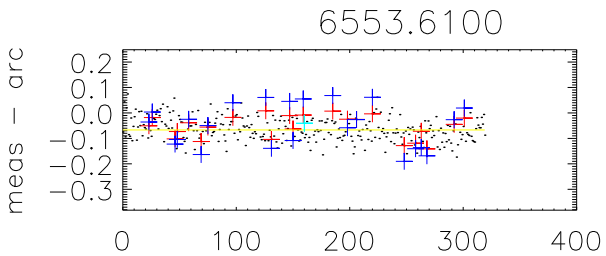

PLATE=2959 MJD=54537 Scattered Light on sdR-r1-00050942.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.959
Max value = 11.128
Wed Mar 12 21:42:26 2008

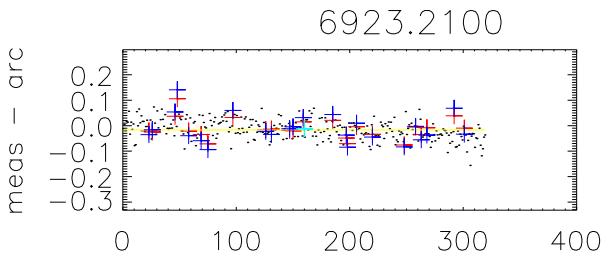

PLATE=2959 MJD=54537 Extraction chi^2 for sdR−r1−00050942.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

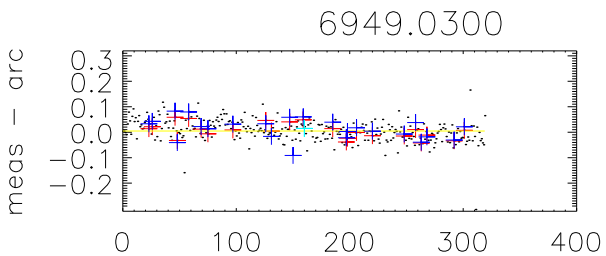

6300.3040
off: −0.05
sig: 0.005
6363.7760
off: −0.02
sig: 0.009
6553.6100
off: −0.04
sig: 0.015
6923.2100
off: −0.01
sig: 0.009
6949.0300
off: 0.01
sig: 0.009
7571.7500
off: −0.01
sig: 0.007
7794.1200
off: −0.09
sig: 0.005
7821.5100
off: −0.06
sig: 0.004
8399.1600
off: −0.02
sig: 0.003
8430.1700
off: −0.02
sig: 0.003
8885.8300
off: −0.03
sig: 0.003
8919.6100
off: −0.04
sig: 0.003

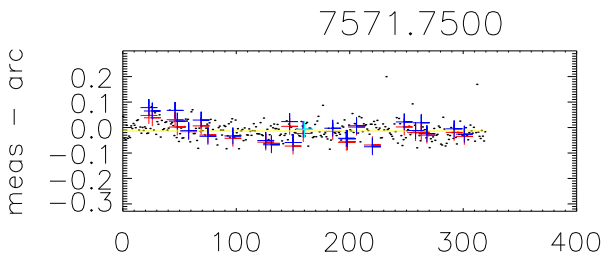

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

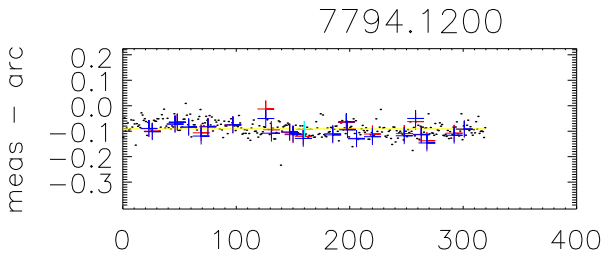

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

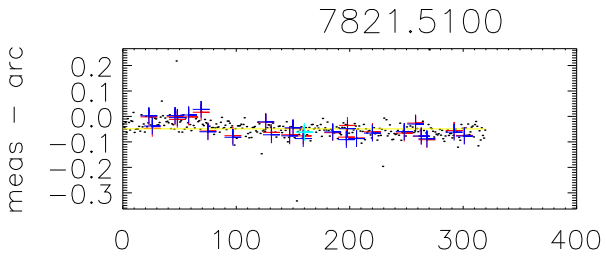

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

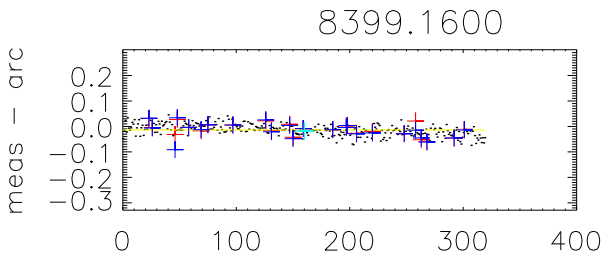

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

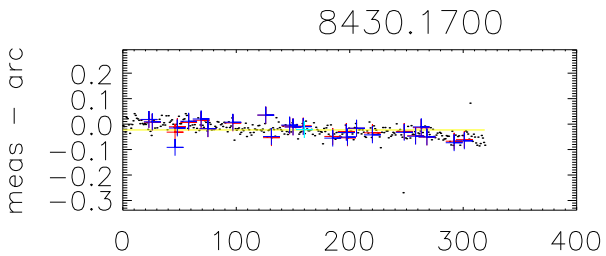

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

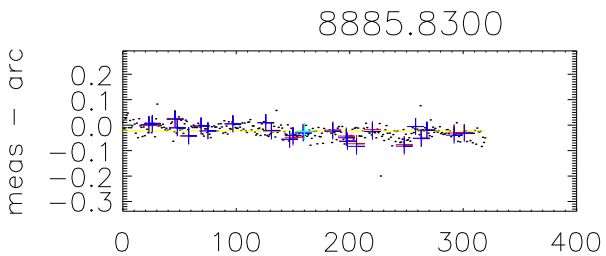

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

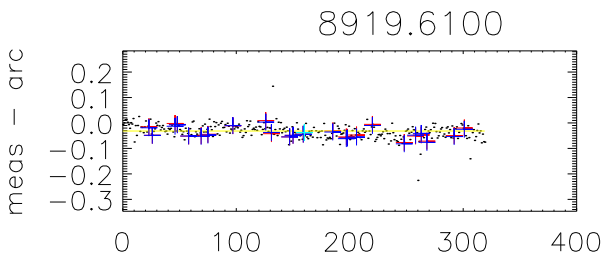

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

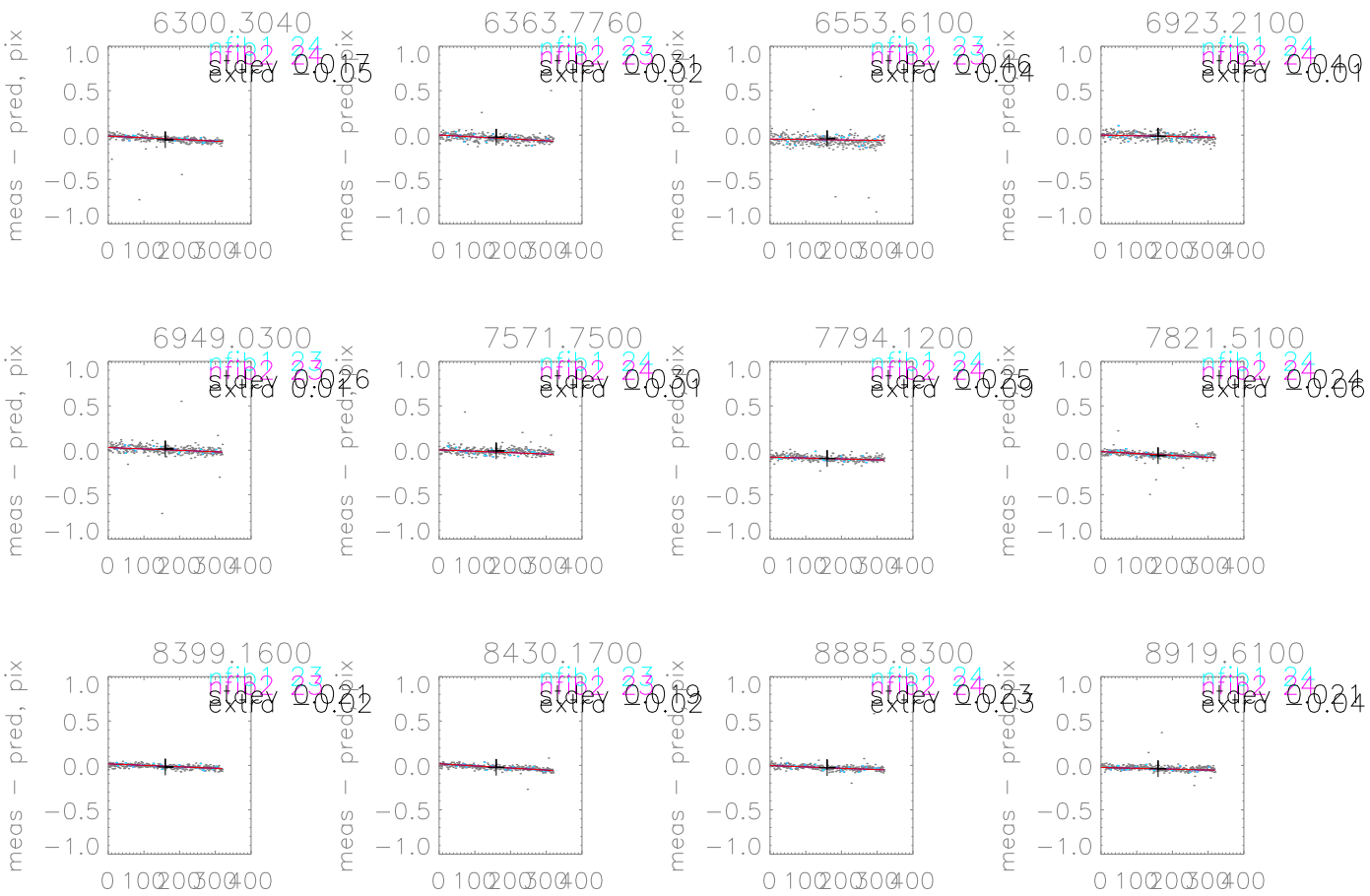

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

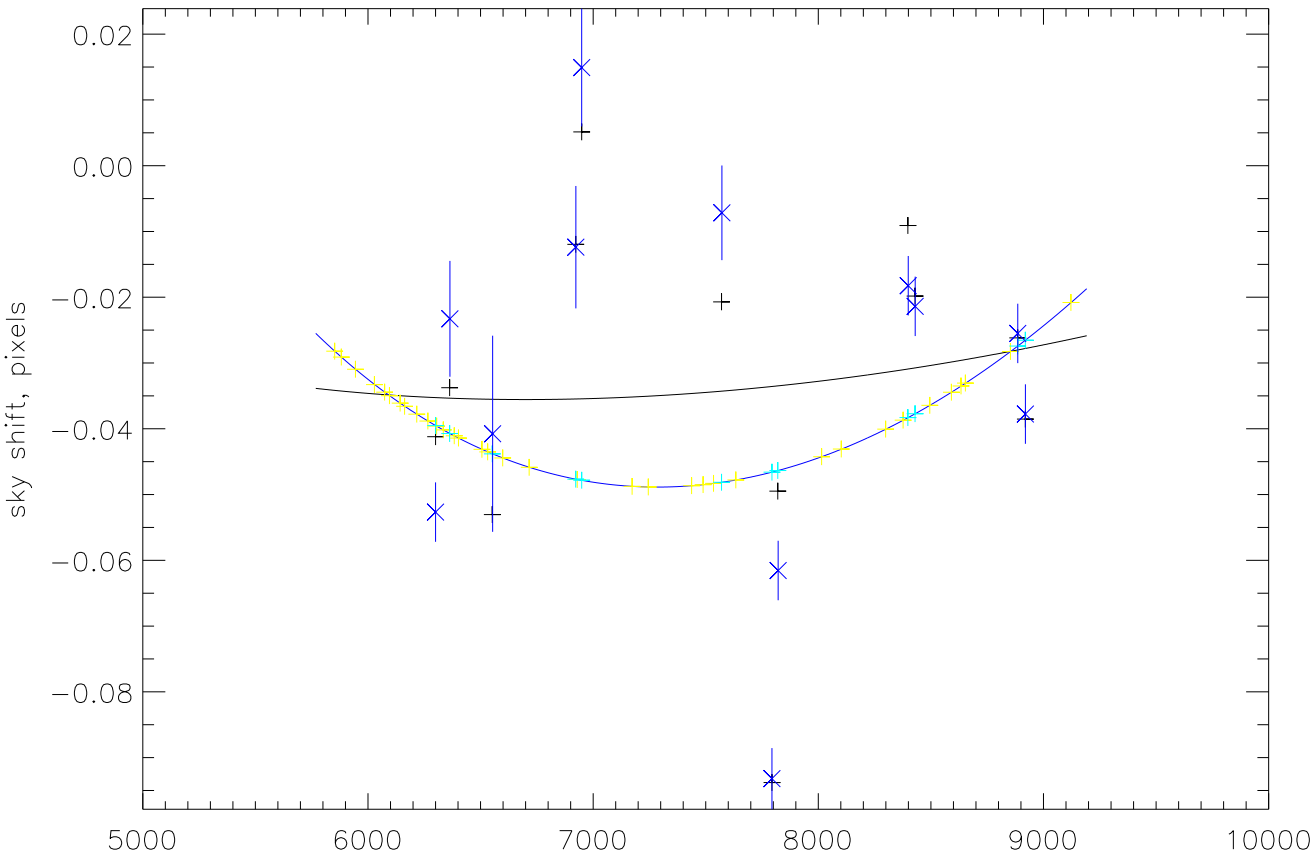

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

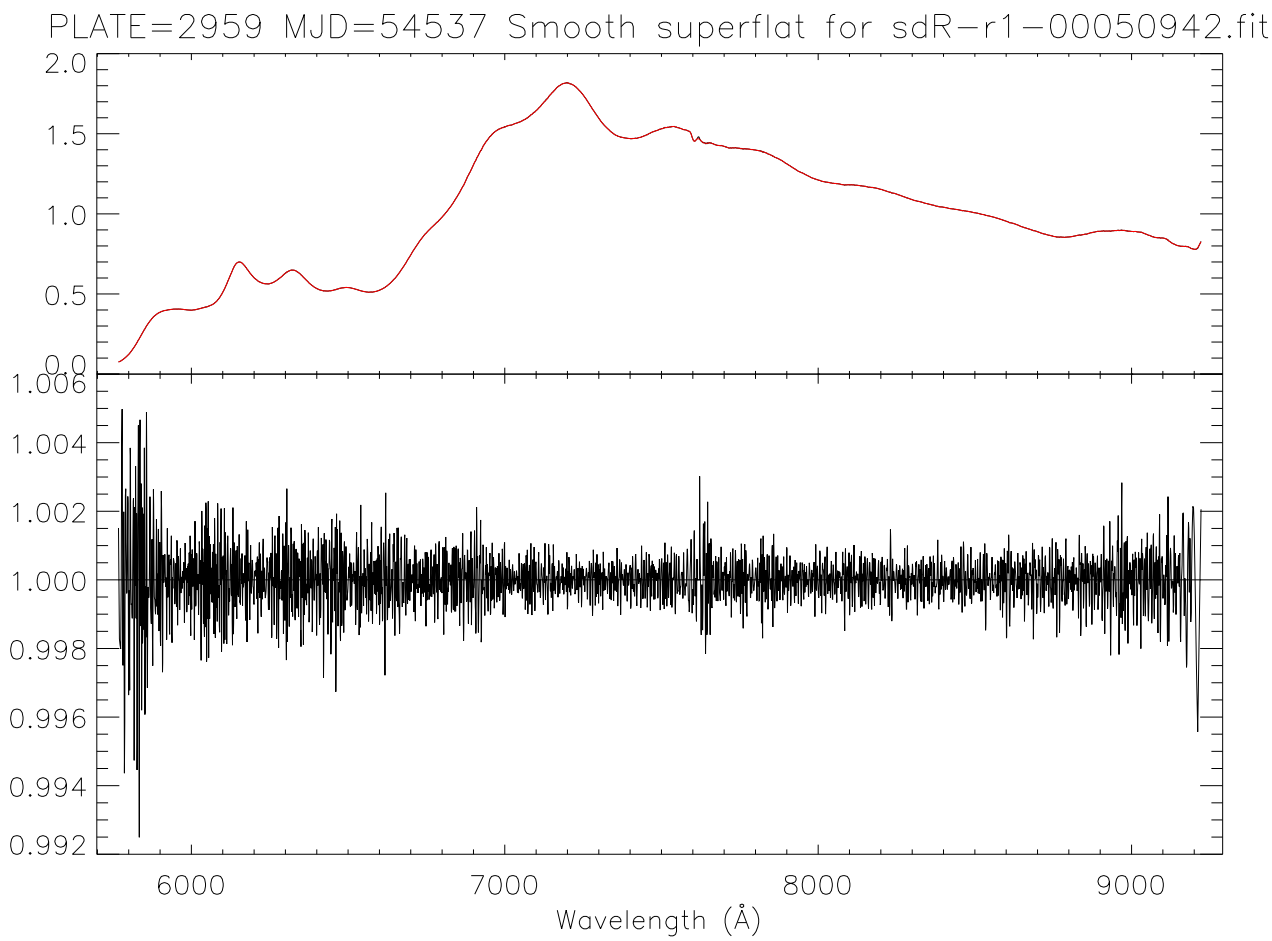

8885.8300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

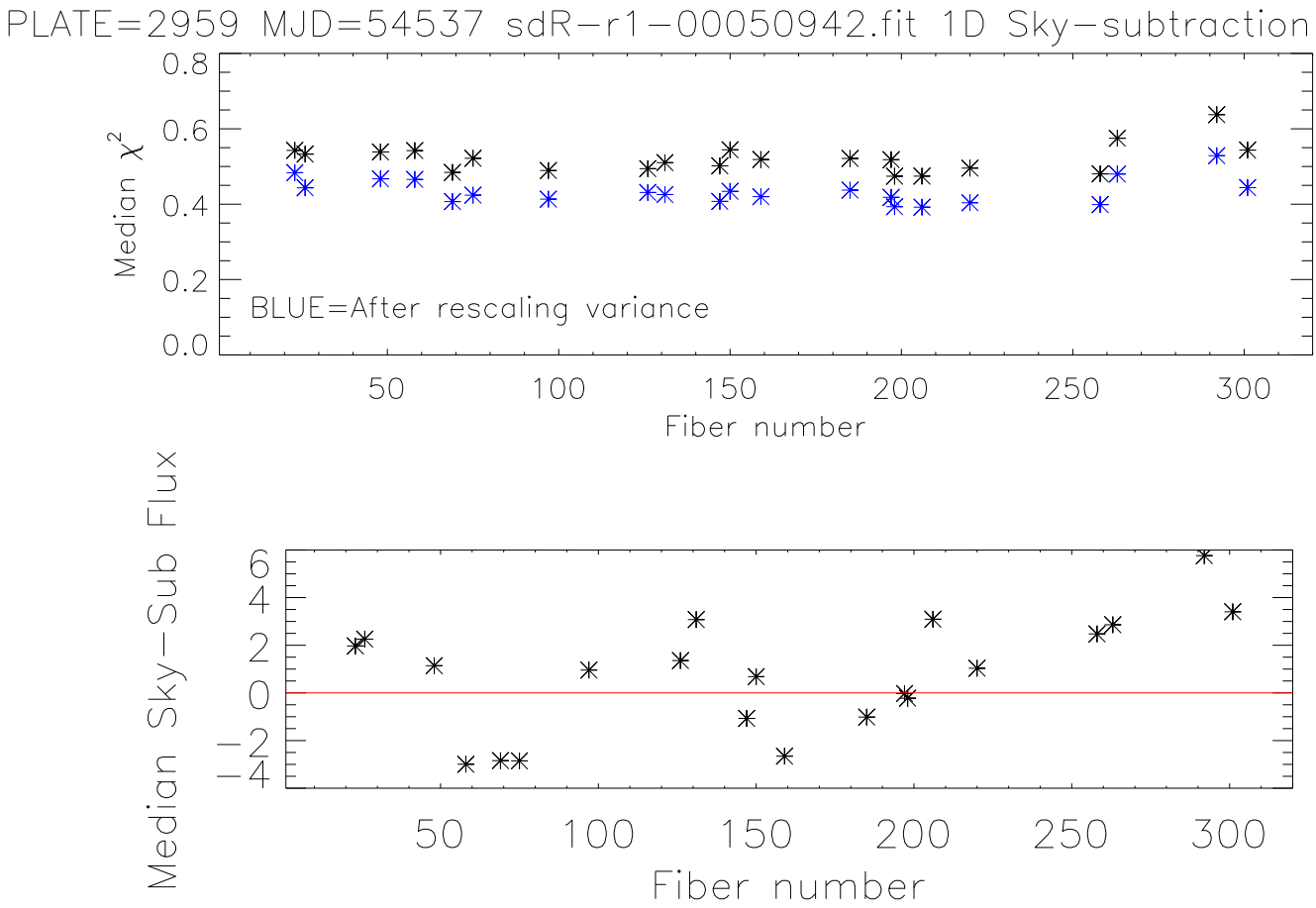

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


6300.3040
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 23
mfib2 24
stdev 0.027
extra −0.05
stdev 0.031
extra −0.02
stdev 0.046
extra −0.04
stdev 0.040
extra −0.01
stdev 0.026
extra 0.01
stdev 0.030
extra −0.01
stdev 0.025
extra −0.09
stdev 0.024
extra −0.06
stdev 0.021
extra −0.02
stdev 0.019
extra −0.02
stdev 0.023
extra −0.03
stdev 0.021
extra −0.04
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

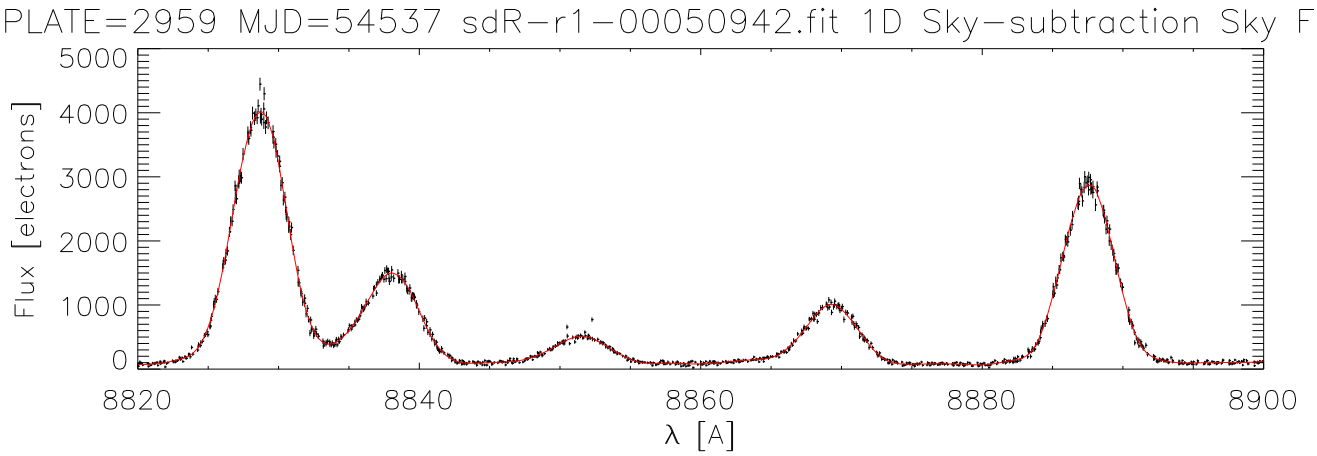

0.02
0.00
−0.02
−0.04
−0.06
−0.08
sky shift, pixels
5000
6000
7000
8000
9000
10000

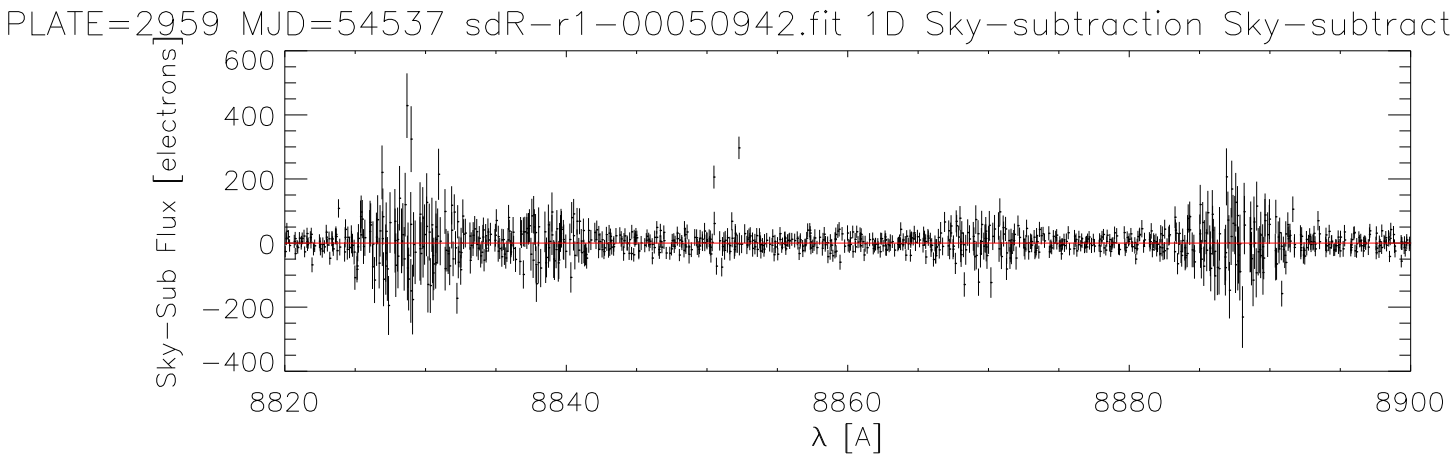
es= −0.0000

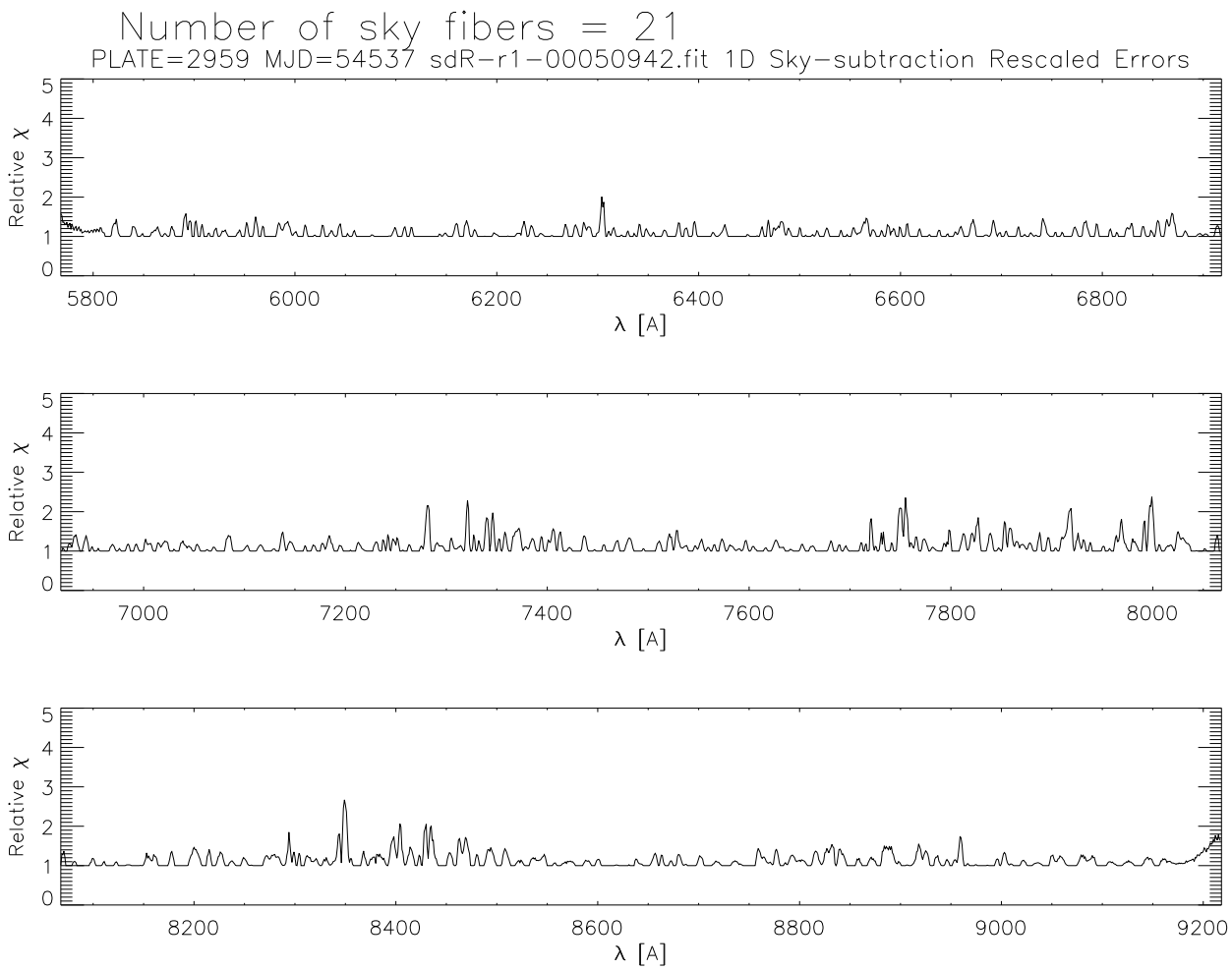

PLATE=2959 MJD=54537 Smooth superflat for sdR−r1−00050942.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
6000
7000
8000
9000
Wavelength (Å)

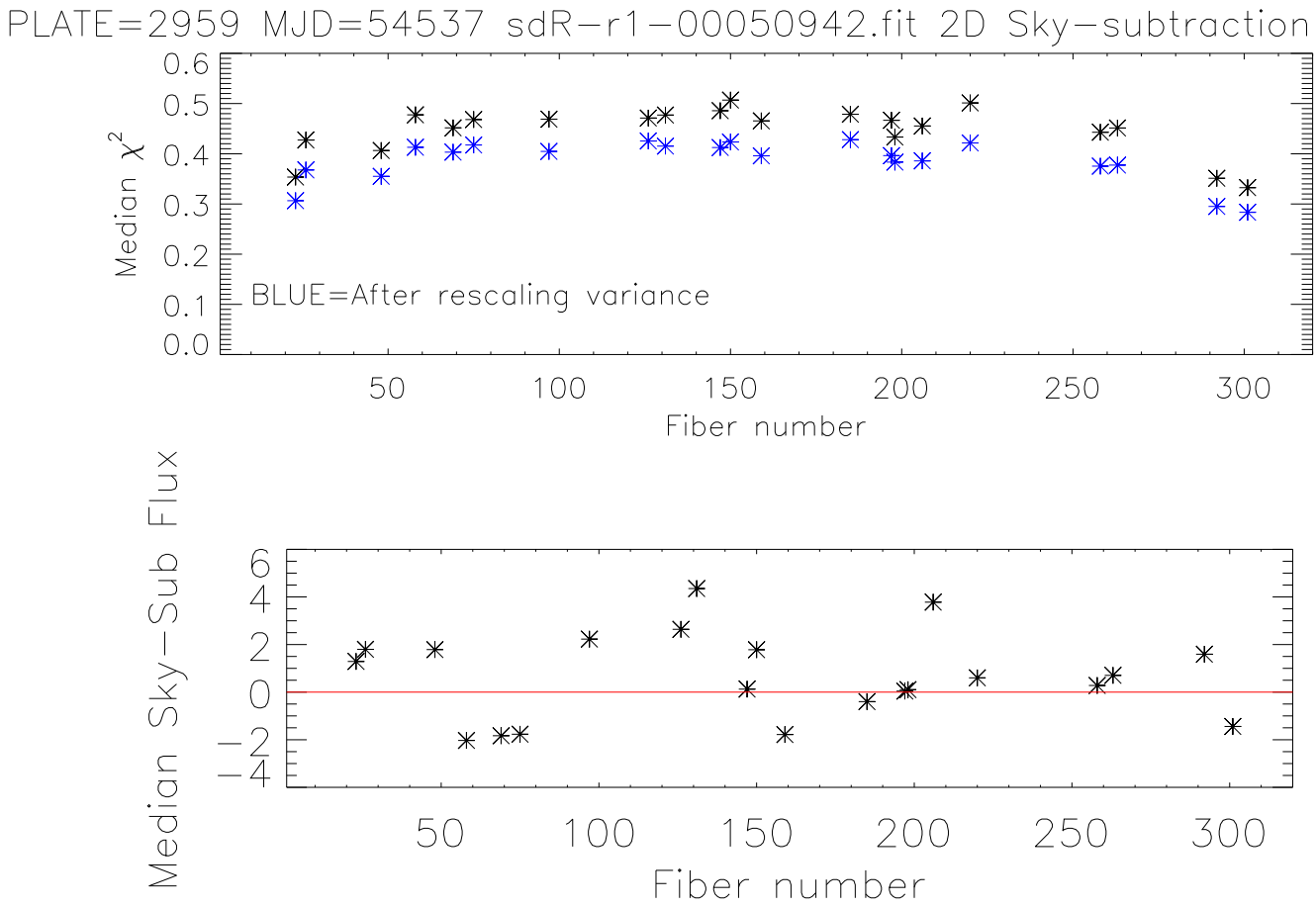

PLATE=2959 MJD=54537 sdR-r1-00050942.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

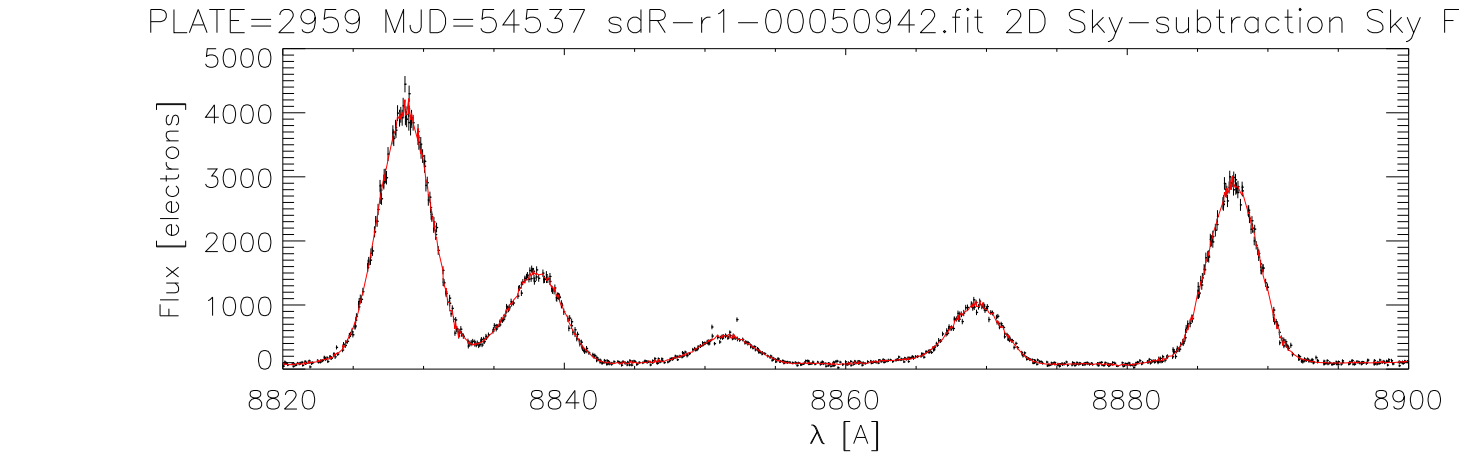
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

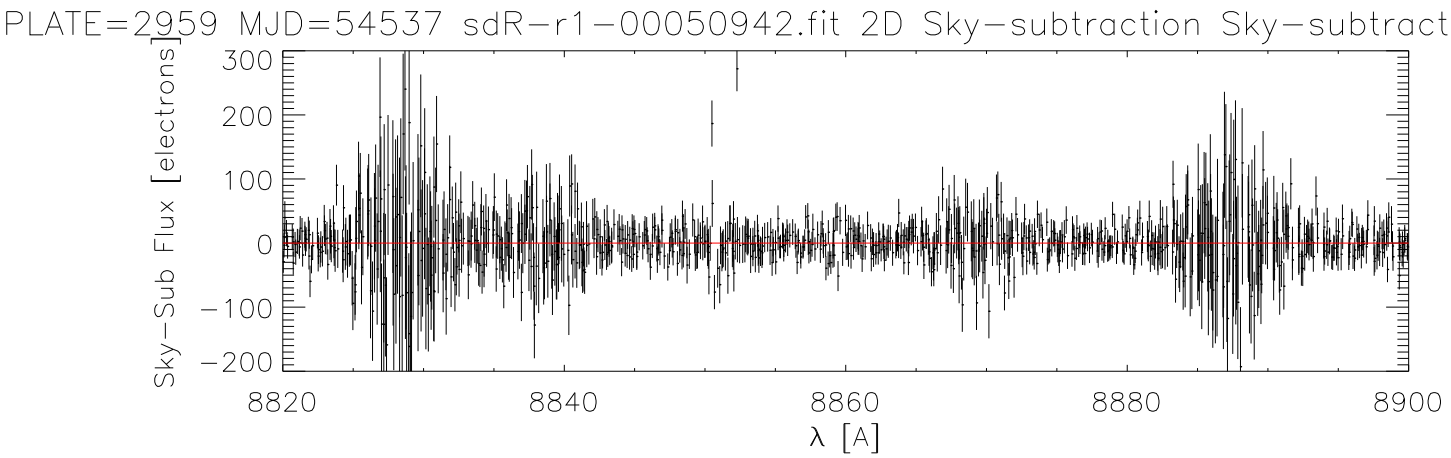

PLATE=2959 MJD=54537 sdR-r1-00050942.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

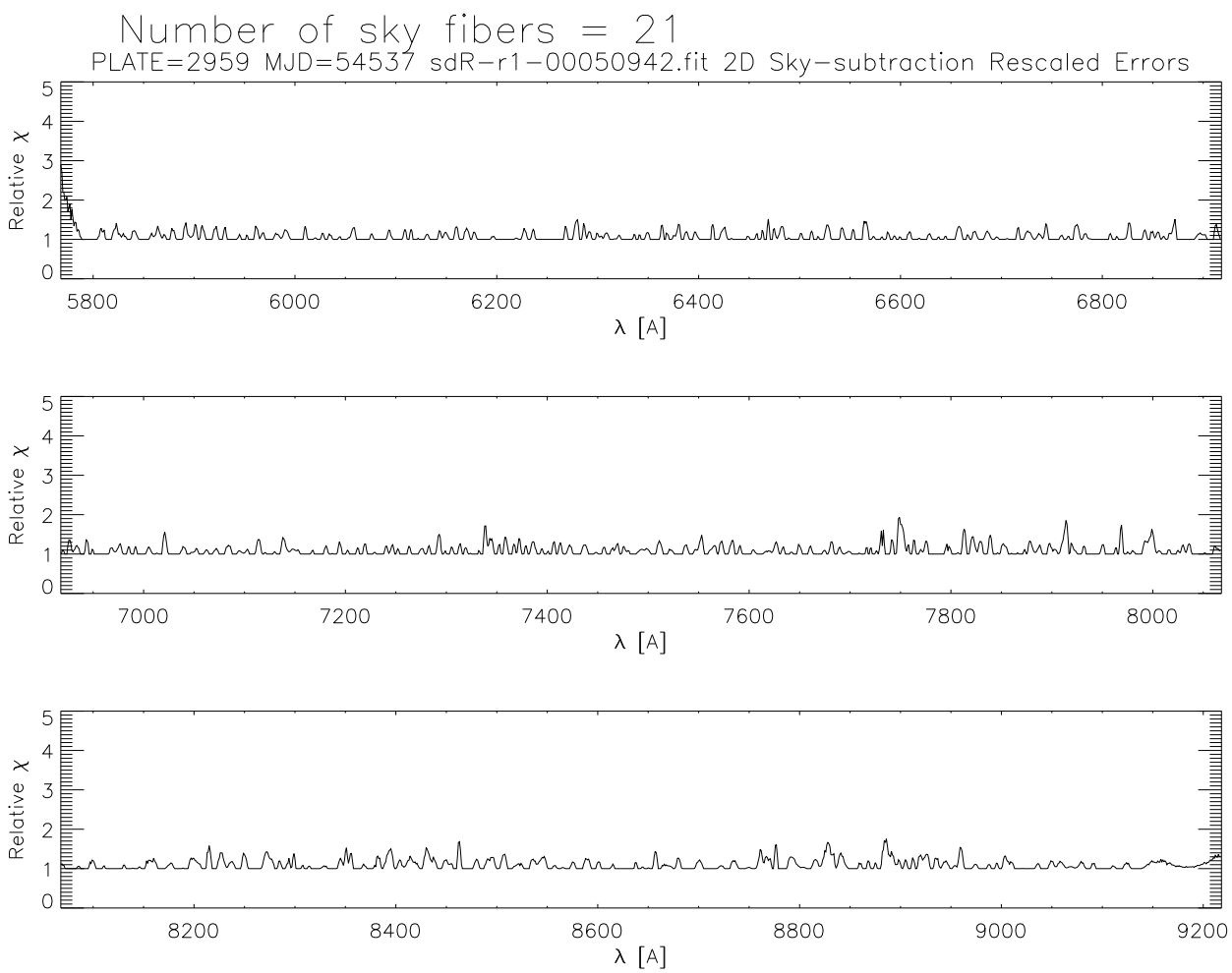

PLATE=2959 MJD=54537 sdR-r1-00050942.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

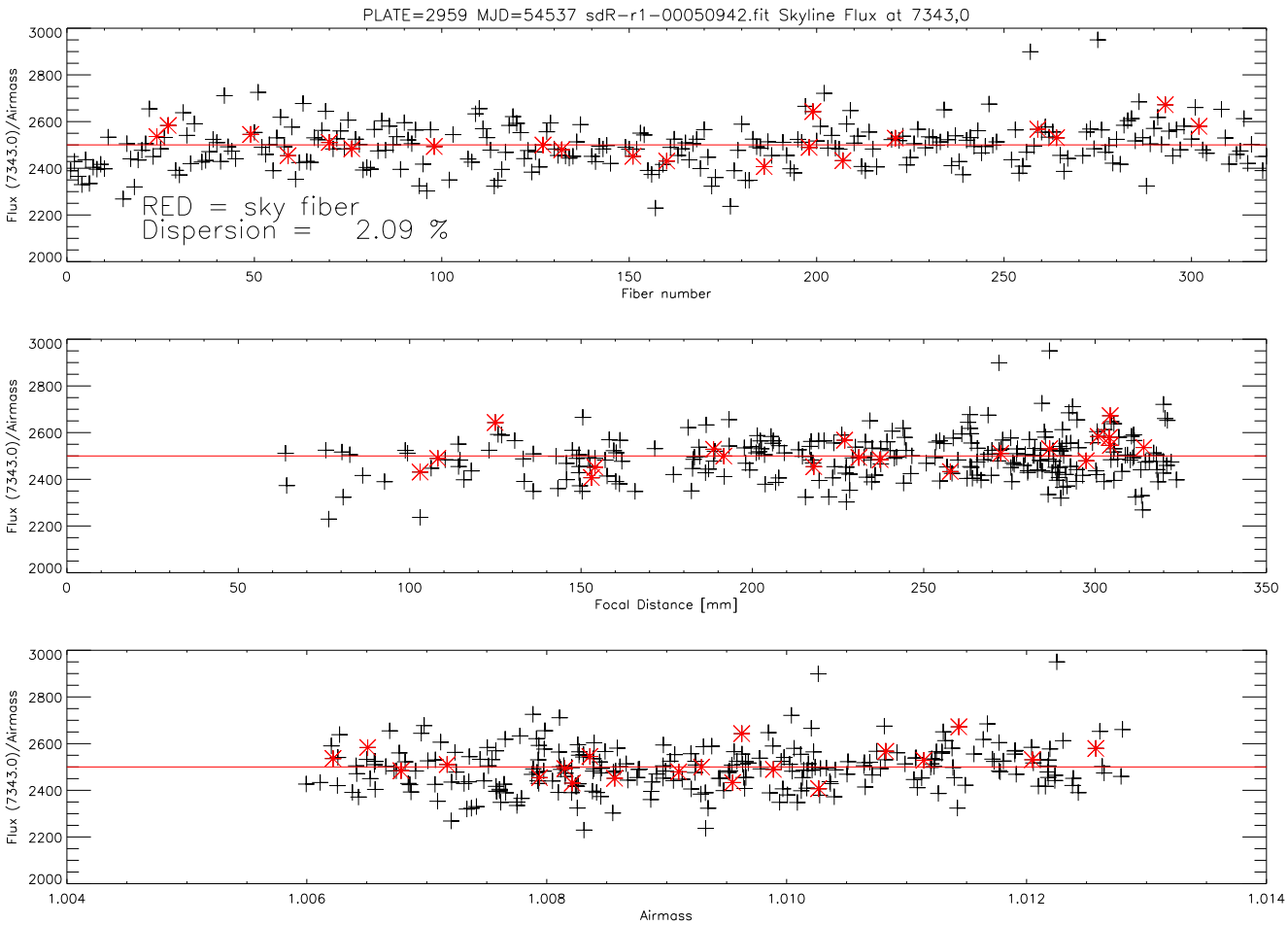

Number of sky fibers = 21
PLATE=2959 MJD=54537 sdR-r1-00050942.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

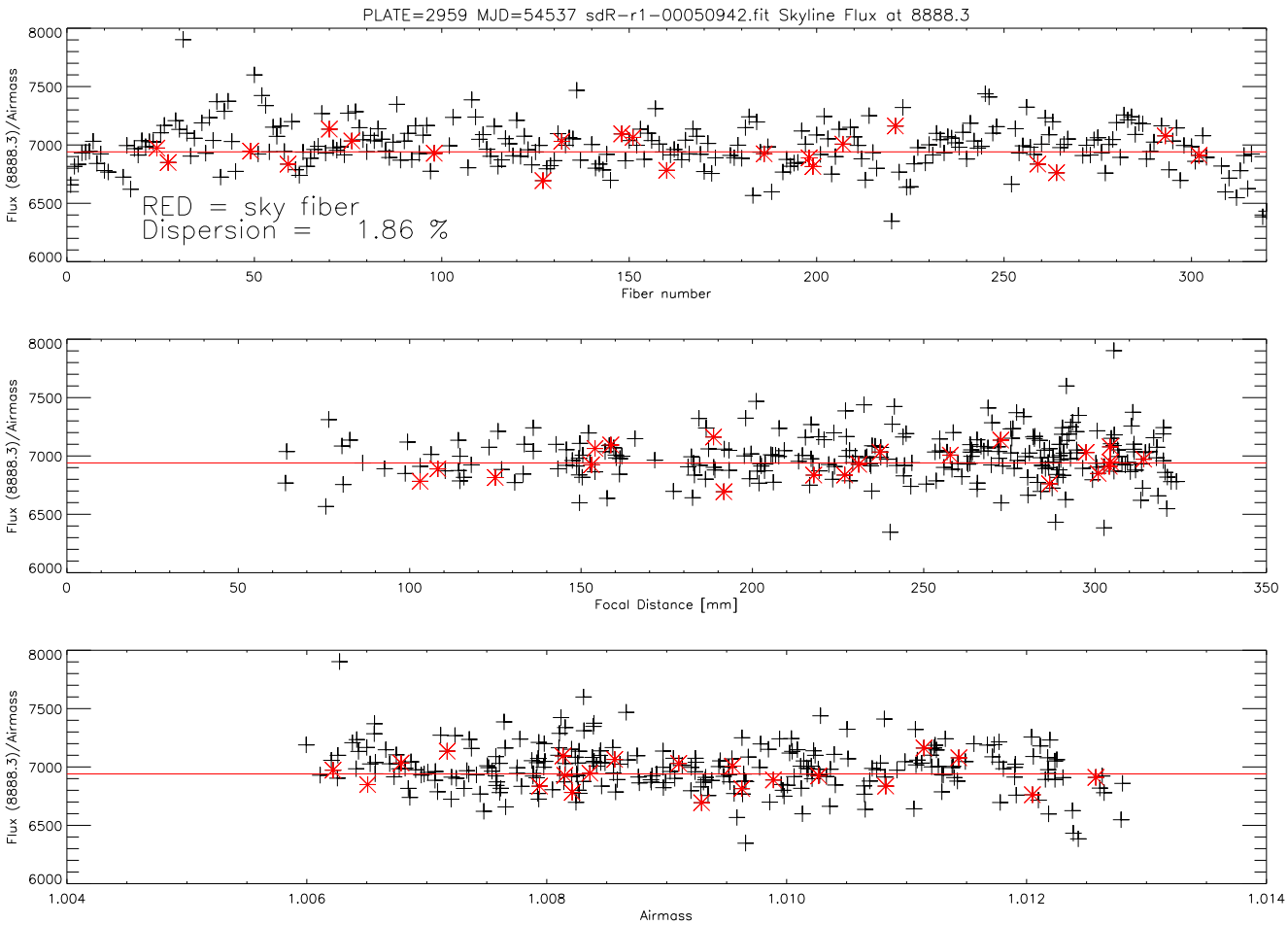

PLATE=2959 MJD=54537 sdR-r1-00050942.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

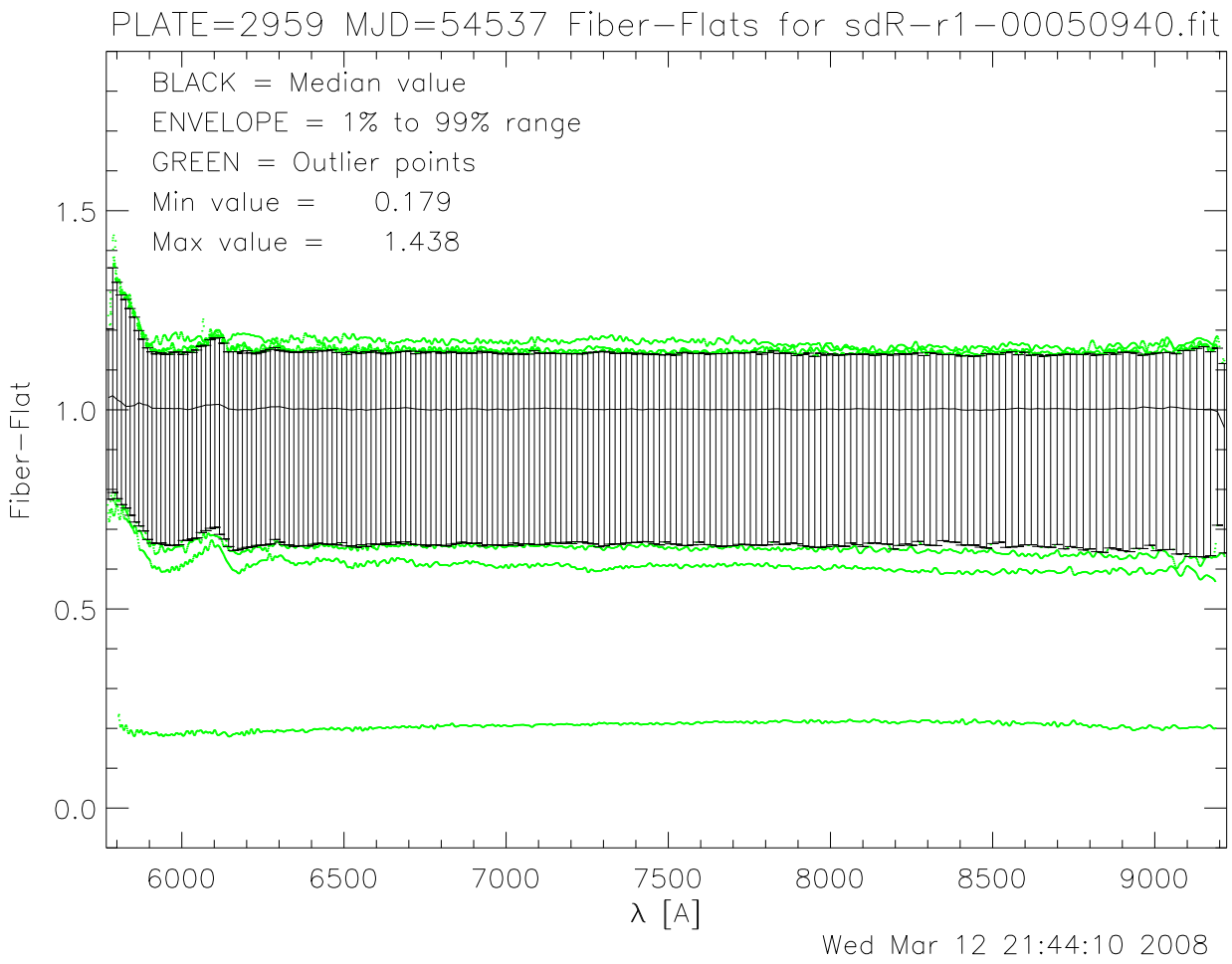

PLATE=2959 MJD=54537 sdR-r1-00050942.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

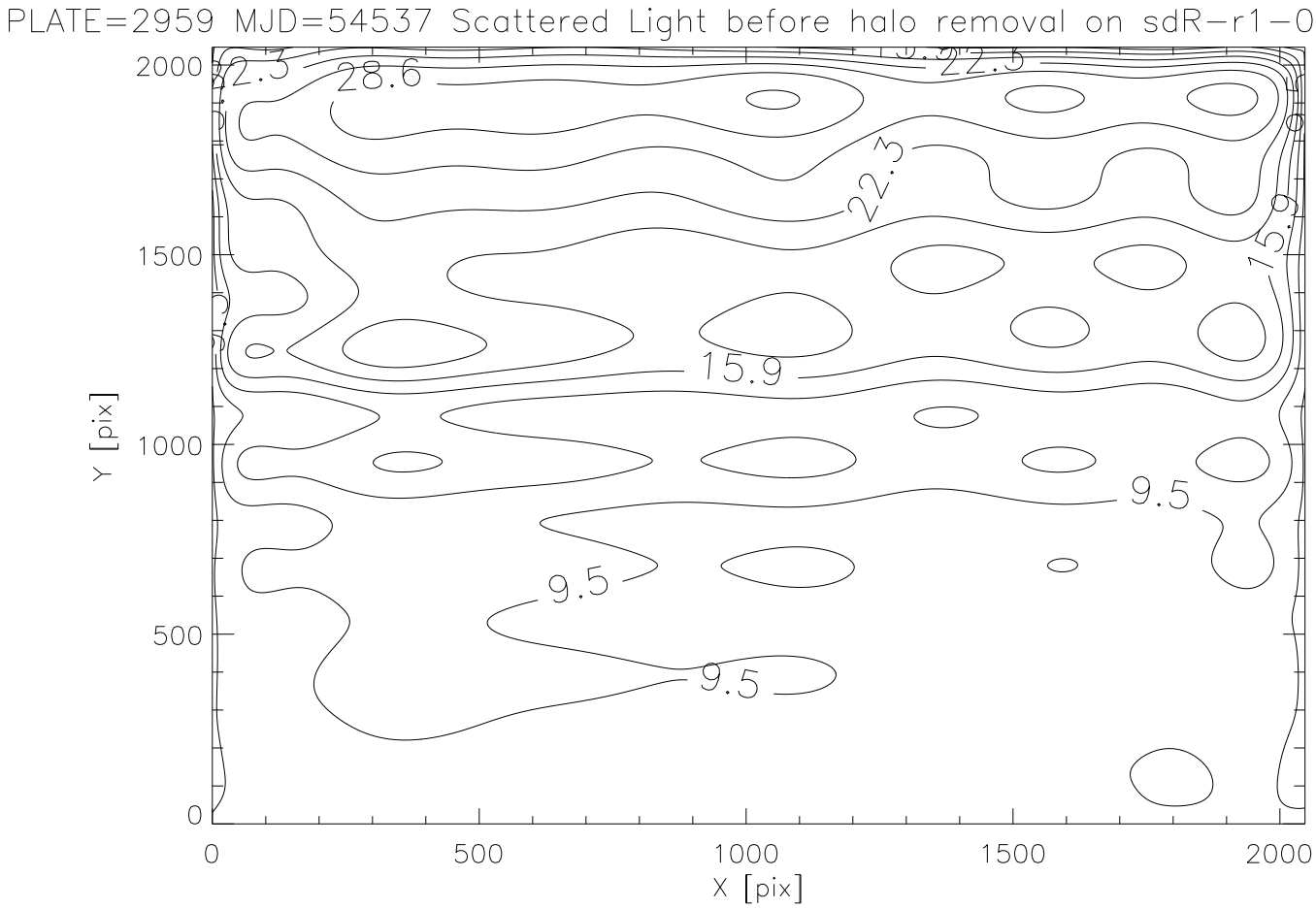

PLATE=2959 MJD=54537 sdR-r1-00050942.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

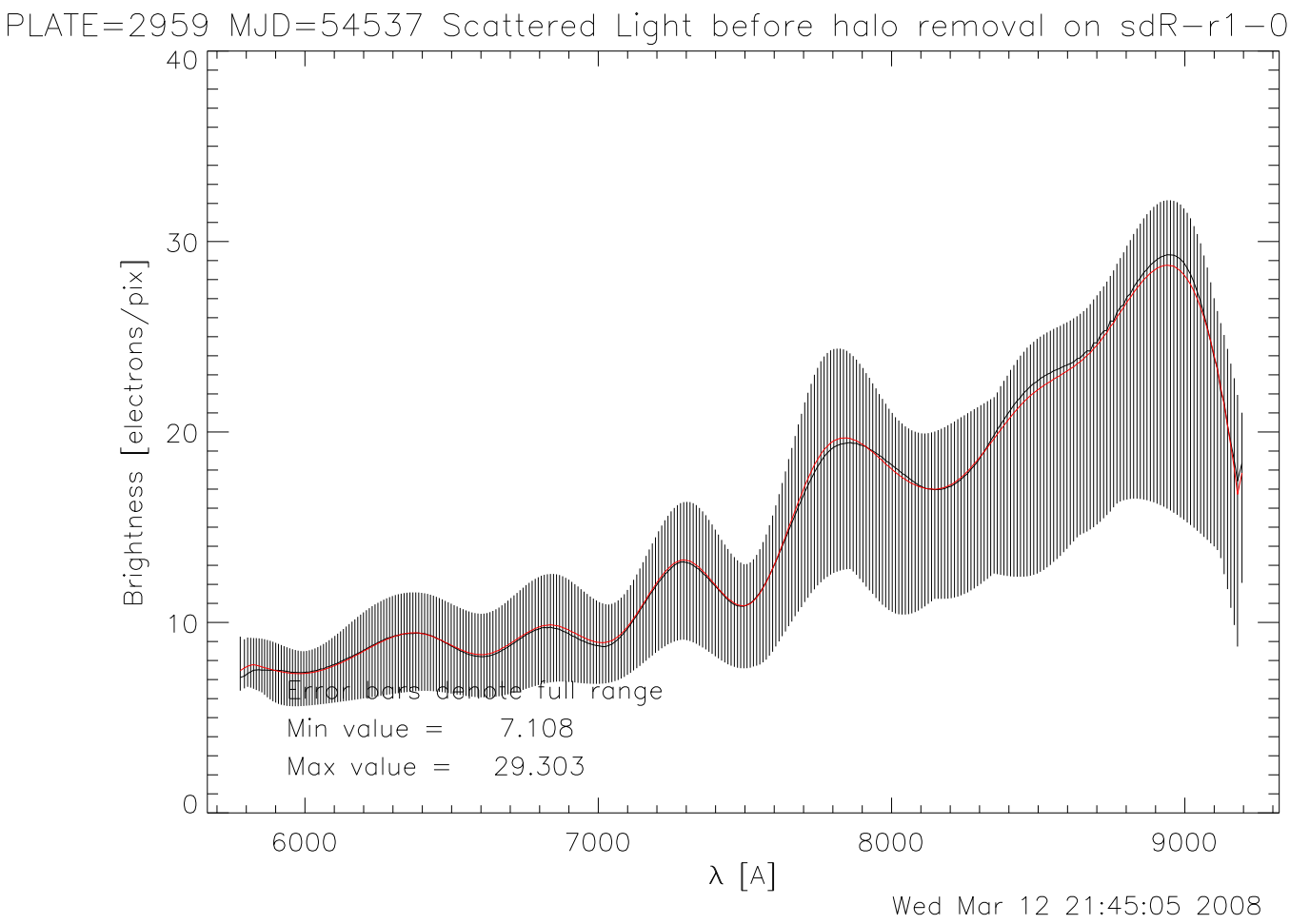

Number of sky fibers = 21
PLATE=2959 MJD=54537 sdR-r1-00050942.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

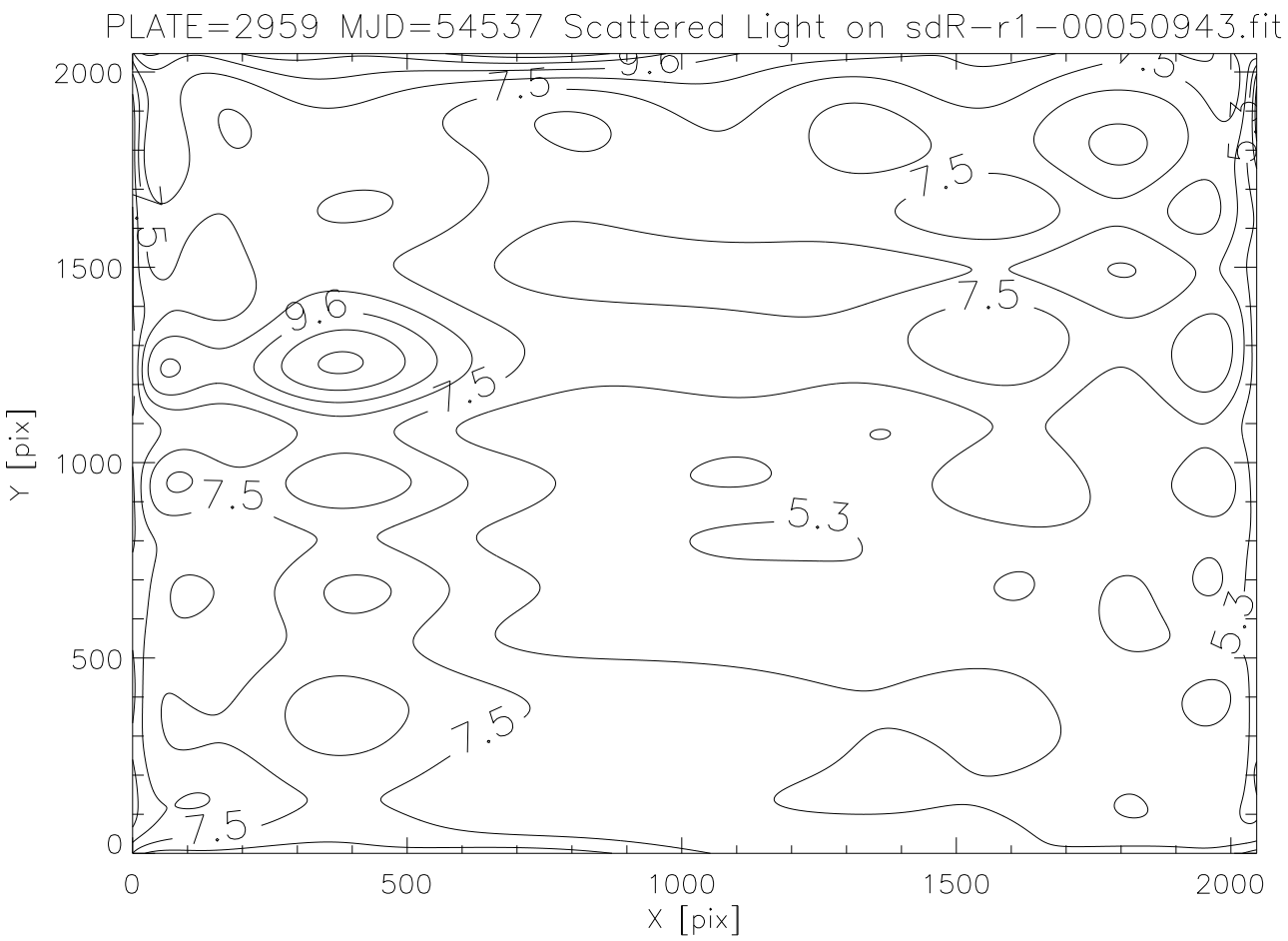

PLATE=2959 MJD=54537 sdR-r1-00050942.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.09 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

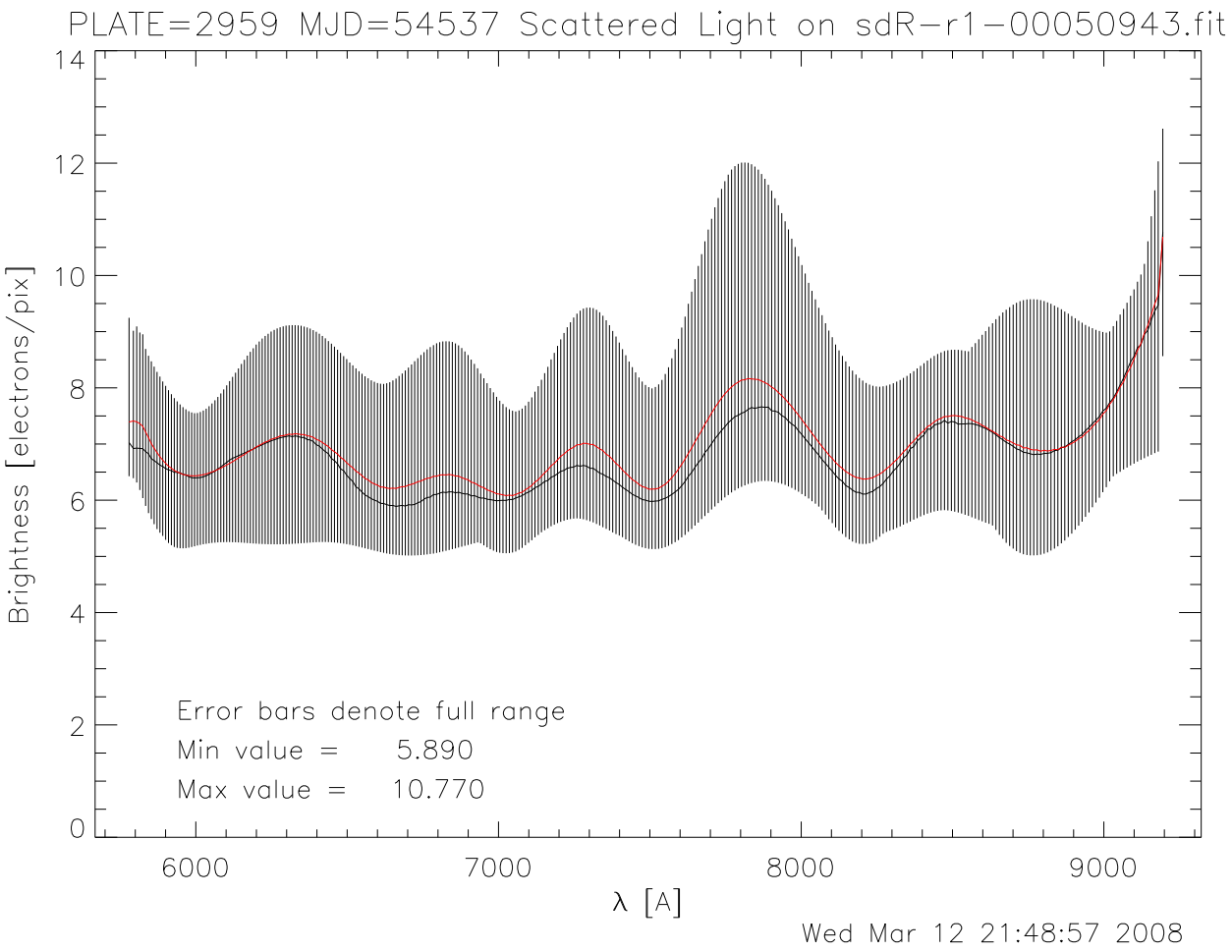

PLATE=2959 MJD=54537 sdR-r1-00050942.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.86 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

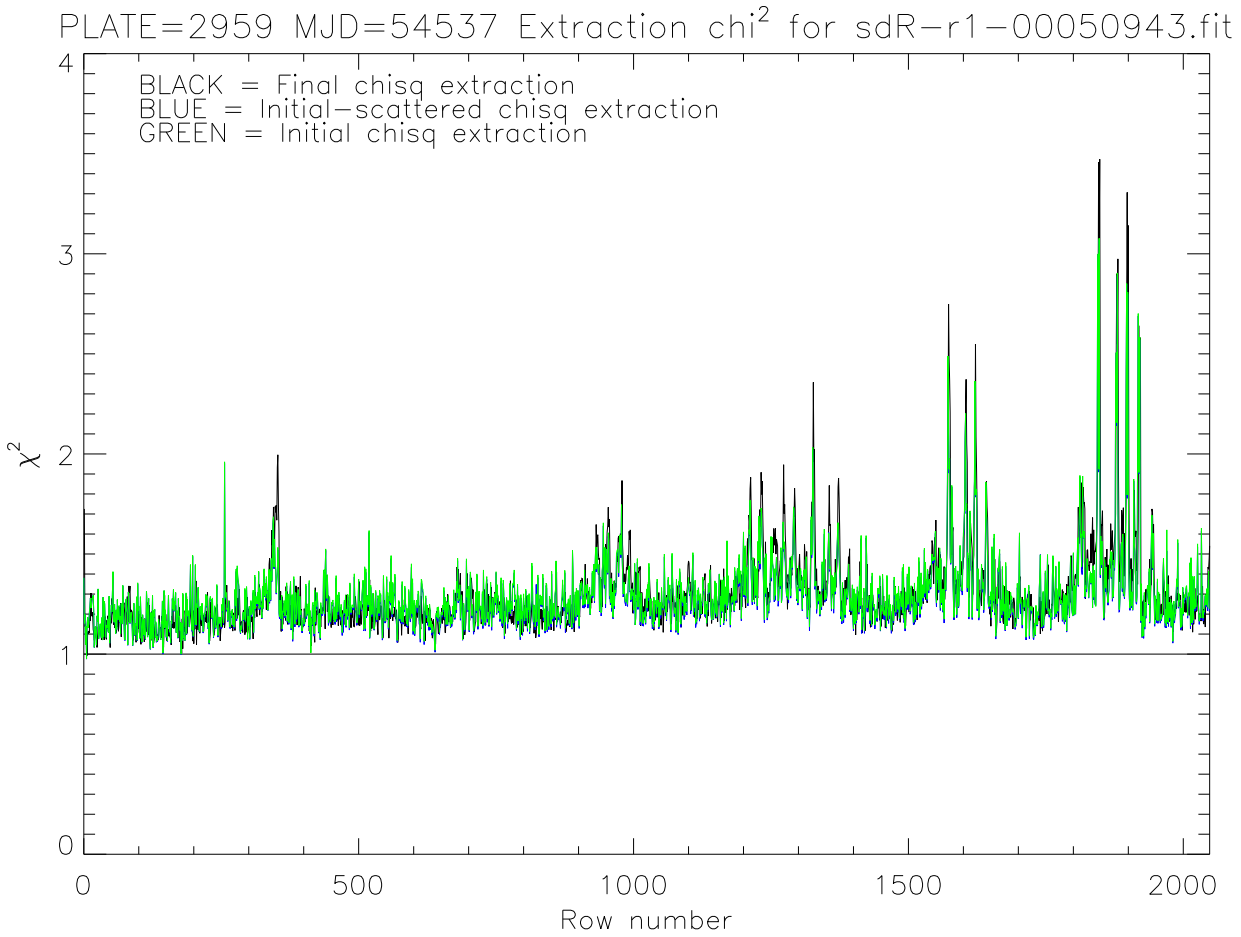

PLATE=2959 MJD=54537 Fiber−Flats for sdR−r1−00050940.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.179
Max value = 1.438
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 12 21:44:10 2008

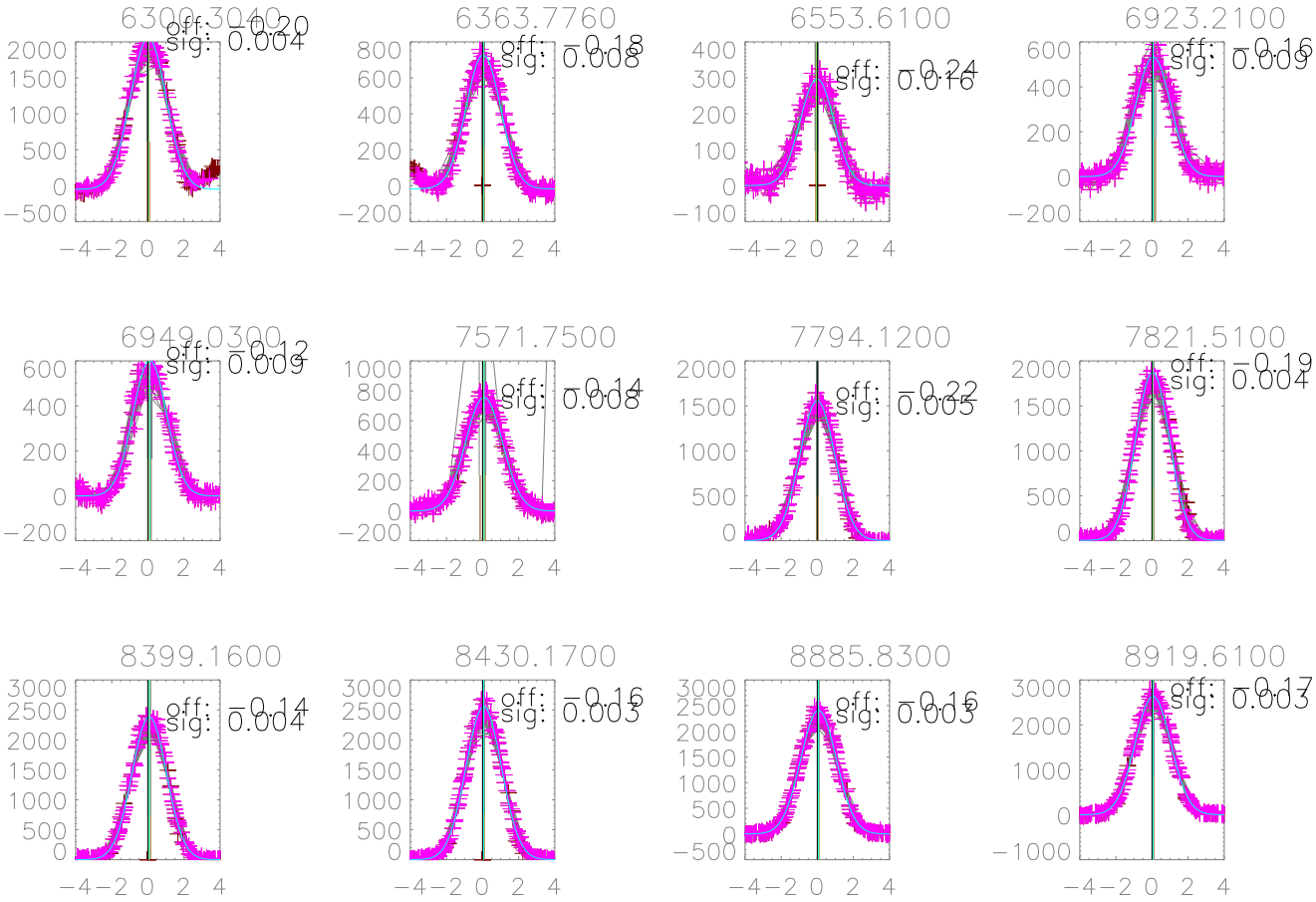

PLATE=2959 MJD=54537 Scattered Light before halo removal on sdR−r1−00050943.fi
22.5
28.6
22.5
22.3
15.9
15.9
9.5
9.5
9.5
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

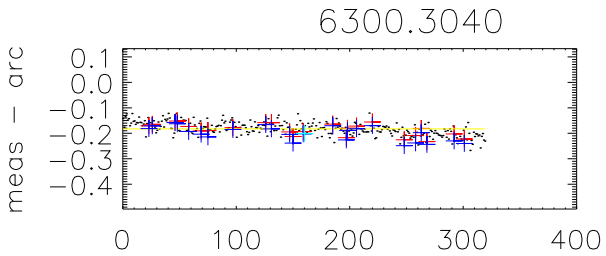

PLATE=2959 MJD=54537 Scattered Light before halo removal on sdR-r1-00050943.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.108
Max value = 29.303
Wed Mar 12 21:45:05 2008

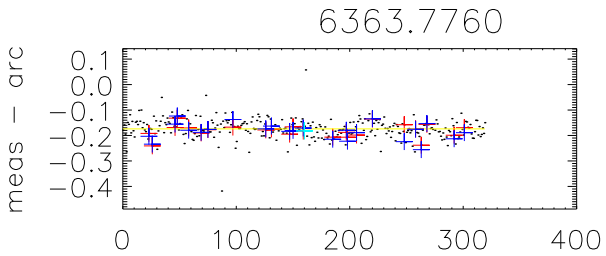

PLATE=2959 MJD=54537 Scattered Light on sdR−r1−00050943.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
9.6
7.5
5.3

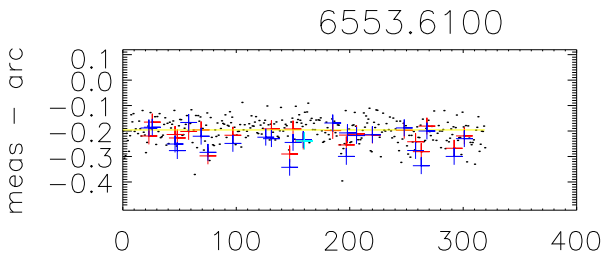

PLATE=2959 MJD=54537 Scattered Light on sdR-r1-00050943.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.890
Max value = 10.770
Wed Mar 12 21:48:57 2008

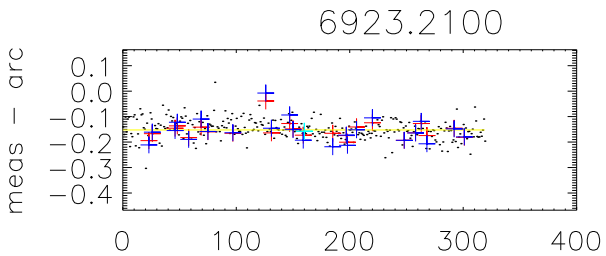

PLATE=2959 MJD=54537 Extraction chi^2 for sdR−r1−00050943.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

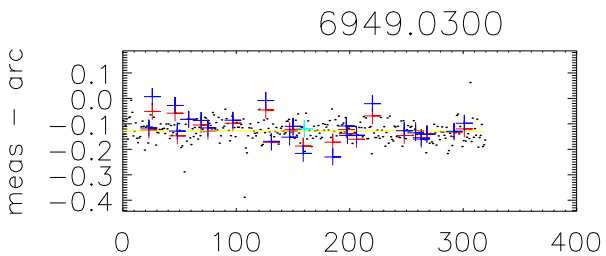

6300.3040
off: −0.20
sig: 0.004
6363.7760
off: −0.18
sig: 0.008
6553.6100
off: −0.24
sig: 0.016
6923.2100
off: −0.16
sig: 0.009
6949.0300
off: −0.12
sig: 0.009
7571.7500
off: −0.14
sig: 0.008
7794.1200
off: −0.22
sig: 0.005
7821.5100
off: −0.19
sig: 0.004
8399.1600
off: −0.14
sig: 0.004
8430.1700
off: −0.16
sig: 0.003
8885.8300
off: −0.16
sig: 0.003
8919.6100
off: −0.17
sig: 0.003

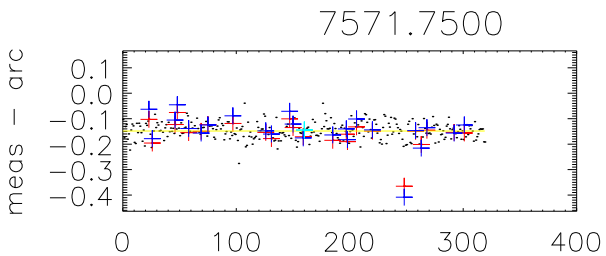

6300.3040
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

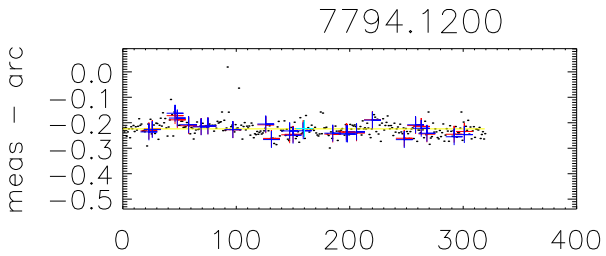

6363.7760
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

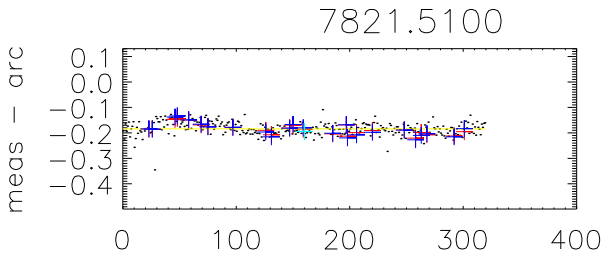

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

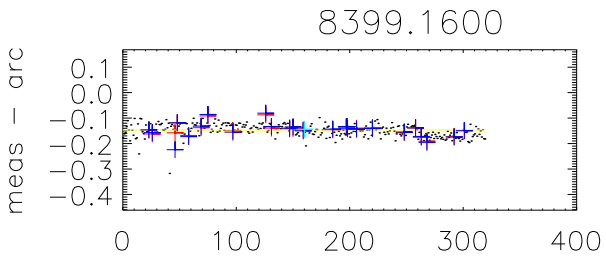

6923.2100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

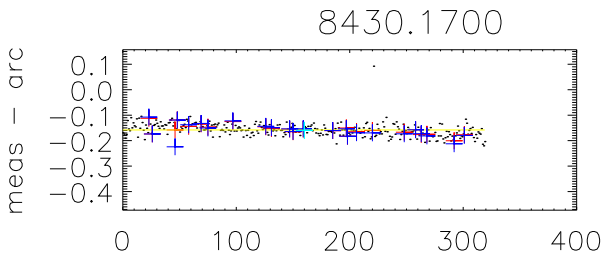

6949.0300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

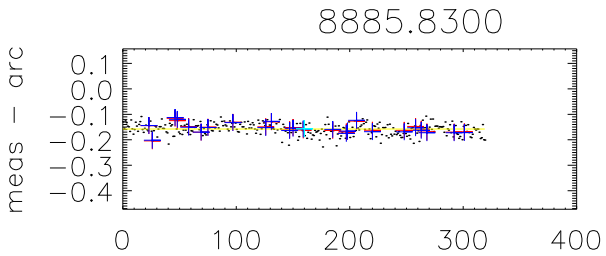

7571.7500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

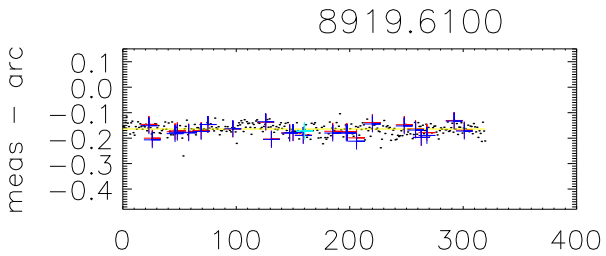

7794.1200
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

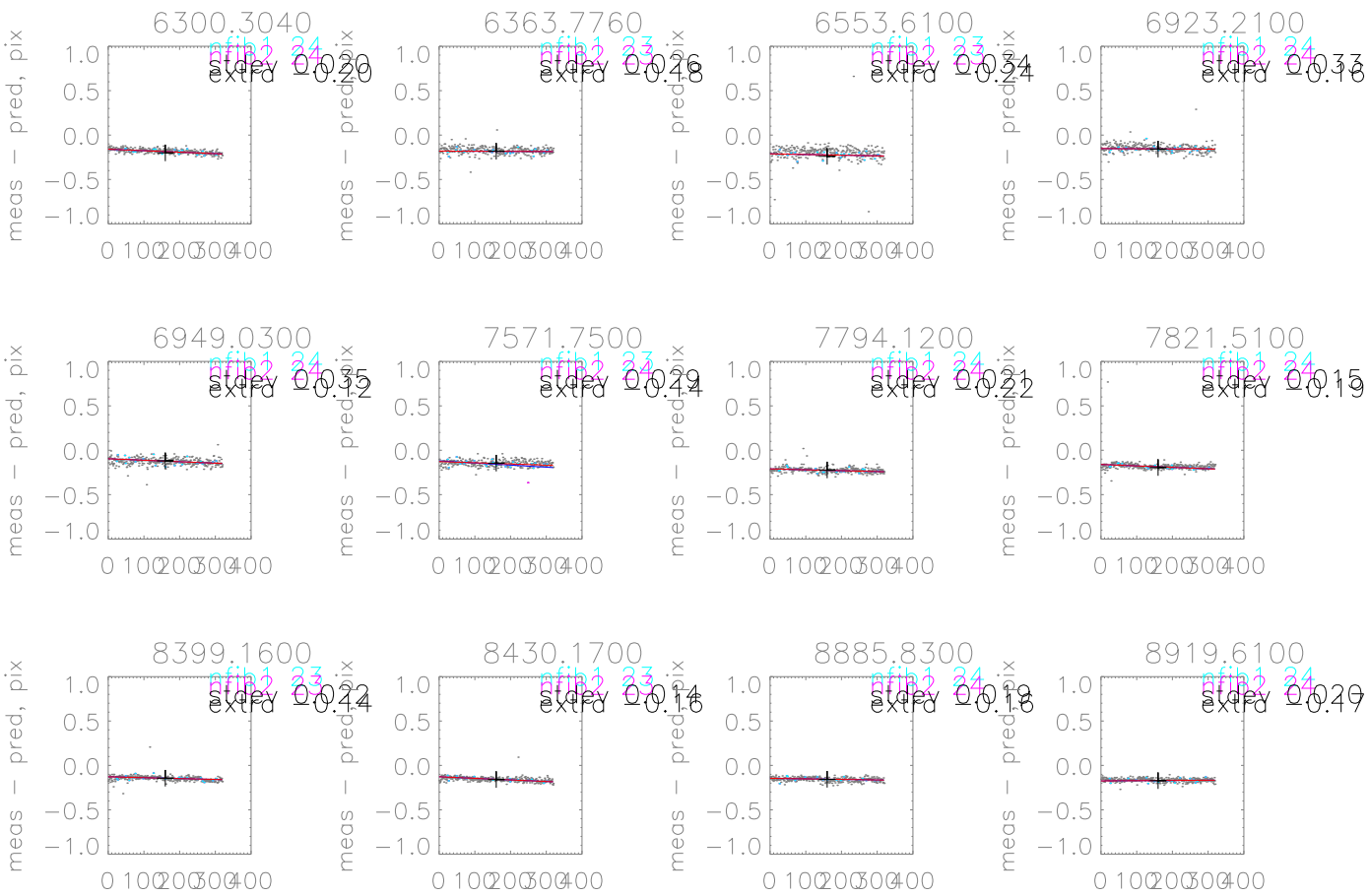

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

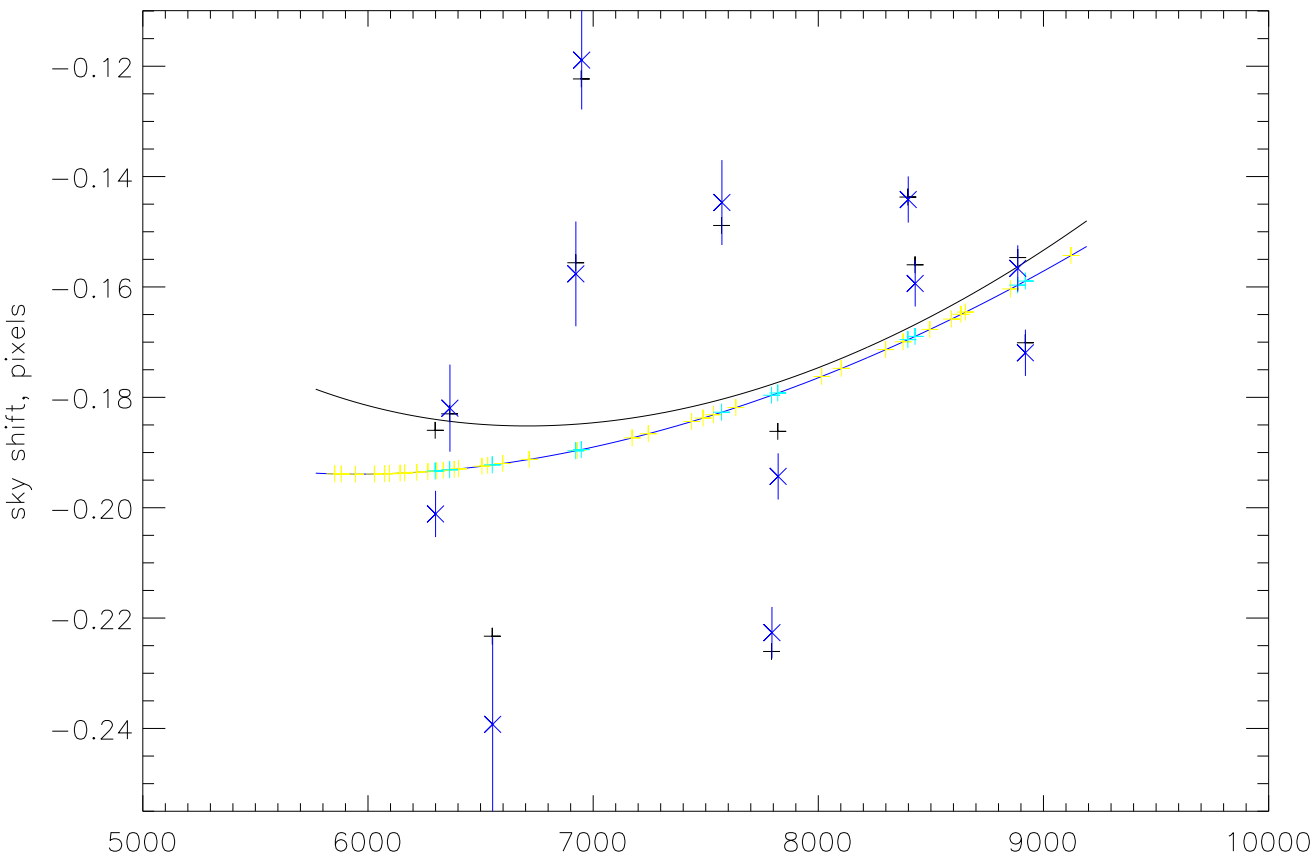

8399.1600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


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

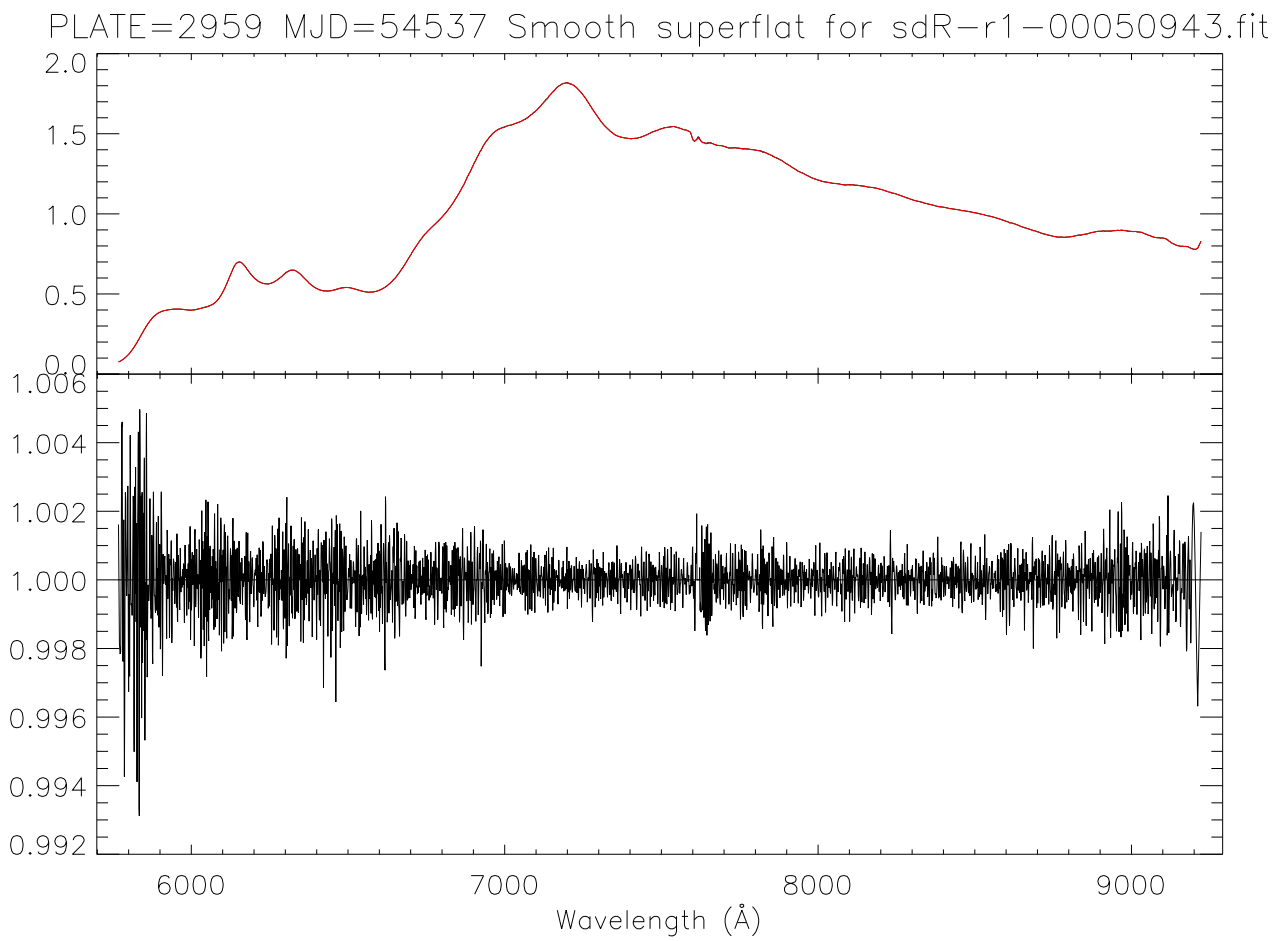

8885.8300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

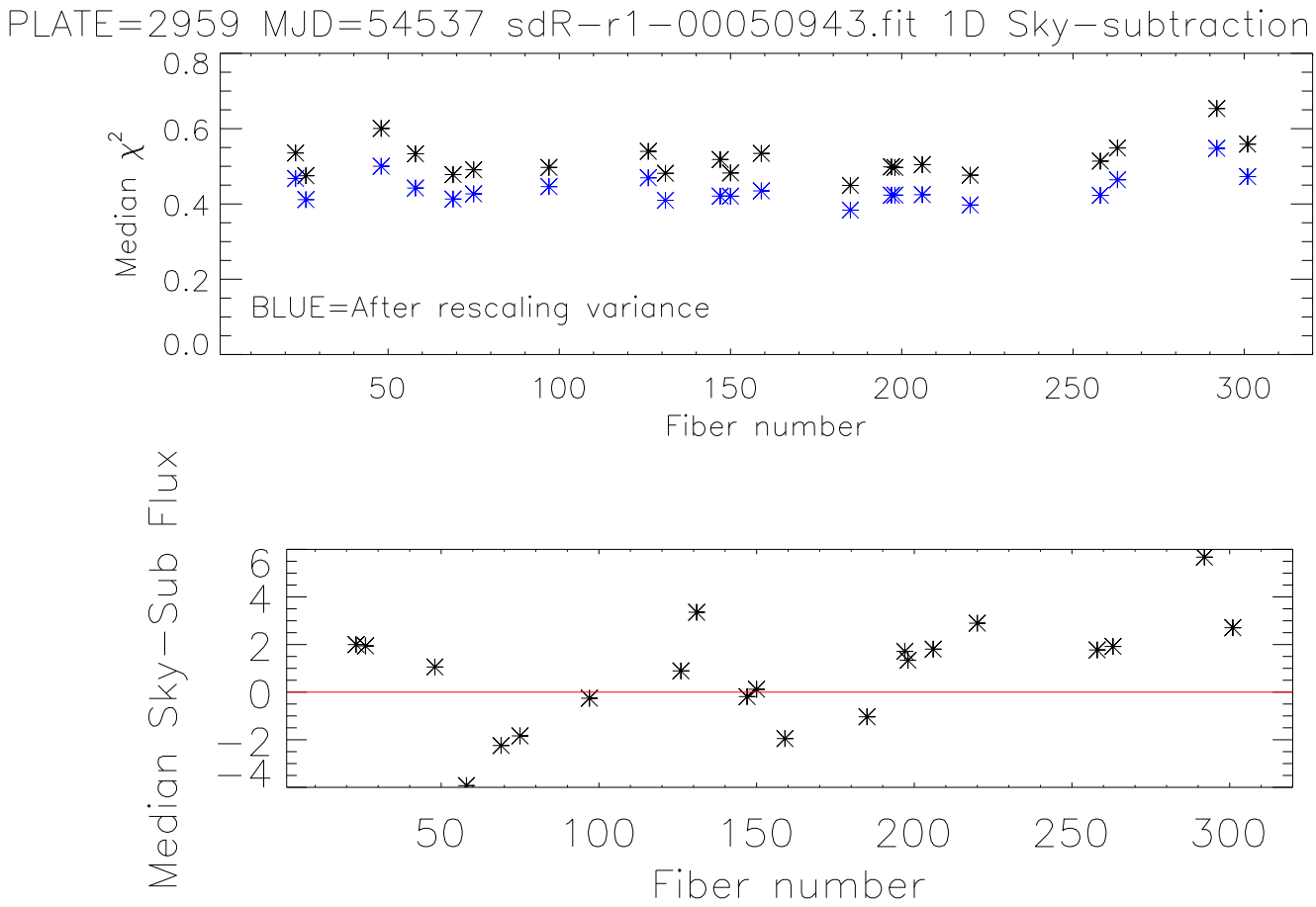

8919.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


6300.3040
stdev 0.020
extra 0.20
6363.7760
stdev 0.026
extra 0.48
6553.6100
stdev 0.034
extra 0.24
6923.2100
stdev 0.033
extra 0.16
6949.0300
stdev 0.035
extra 0.32
7571.7500
stdev 0.029
extra 0.44
7794.1200
stdev 0.021
extra 0.22
7821.5100
stdev 0.015
extra 0.19
8399.1600
stdev 0.022
extra 0.44
8430.1700
stdev 0.014
extra 0.16
8885.8300
stdev 0.018
extra 0.18
8919.6100
stdev 0.029
extra 0.47
meas − pred, pix
mfib1 23
mfib2 24

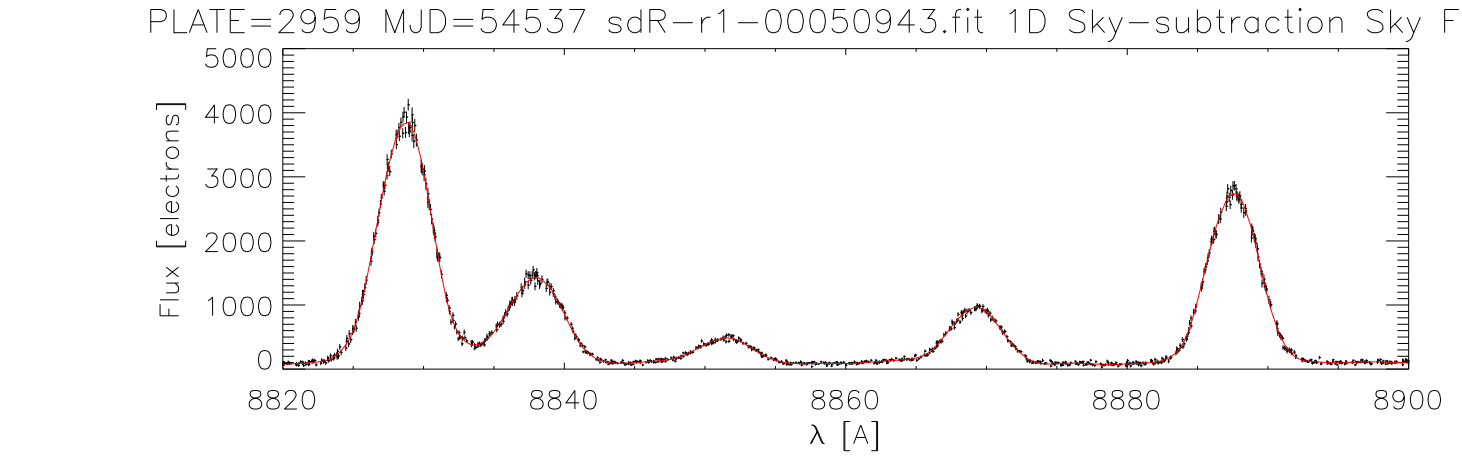

sky shift, pixels
−0.12
−0.14
−0.16
−0.18
−0.20
−0.22
−0.24
5000
6000
7000
8000
9000
10000

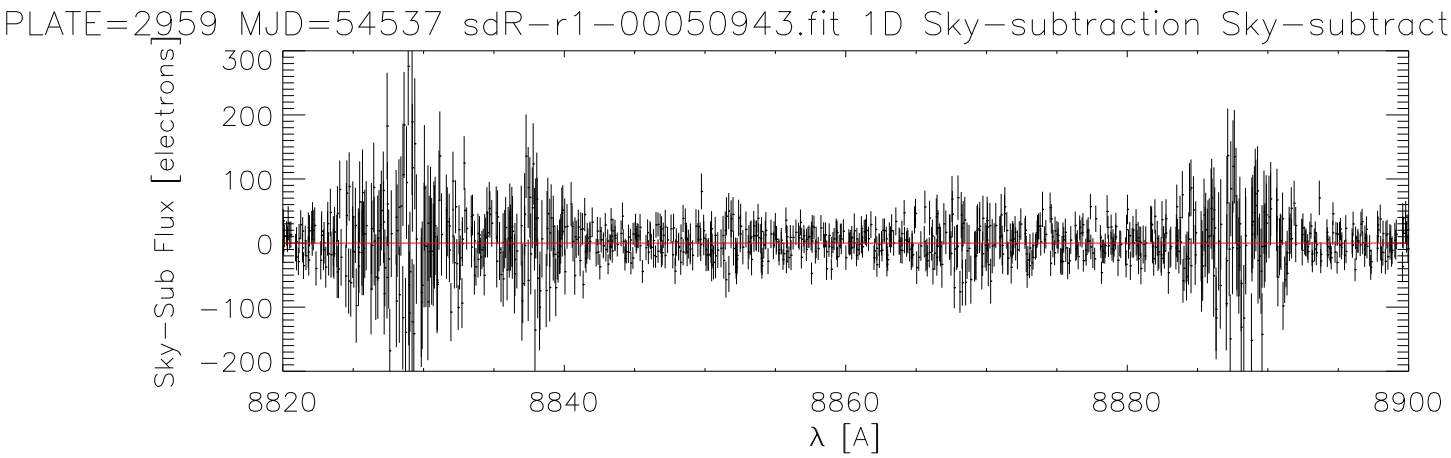
es= 0.0000

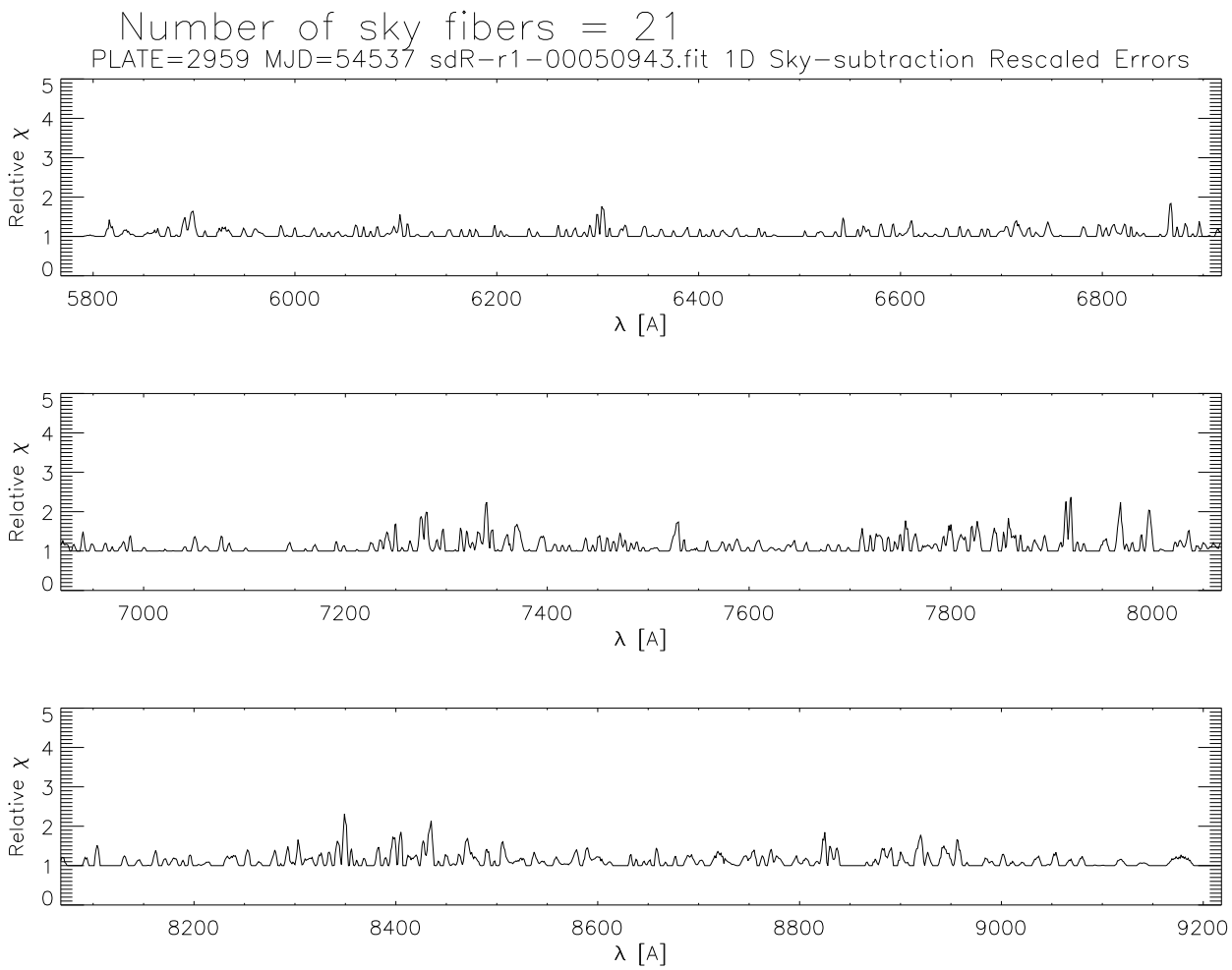

PLATE=2959 MJD=54537 Smooth superflat for sdR-r1-00050943.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
6000
7000
8000
9000
Wavelength (Å)

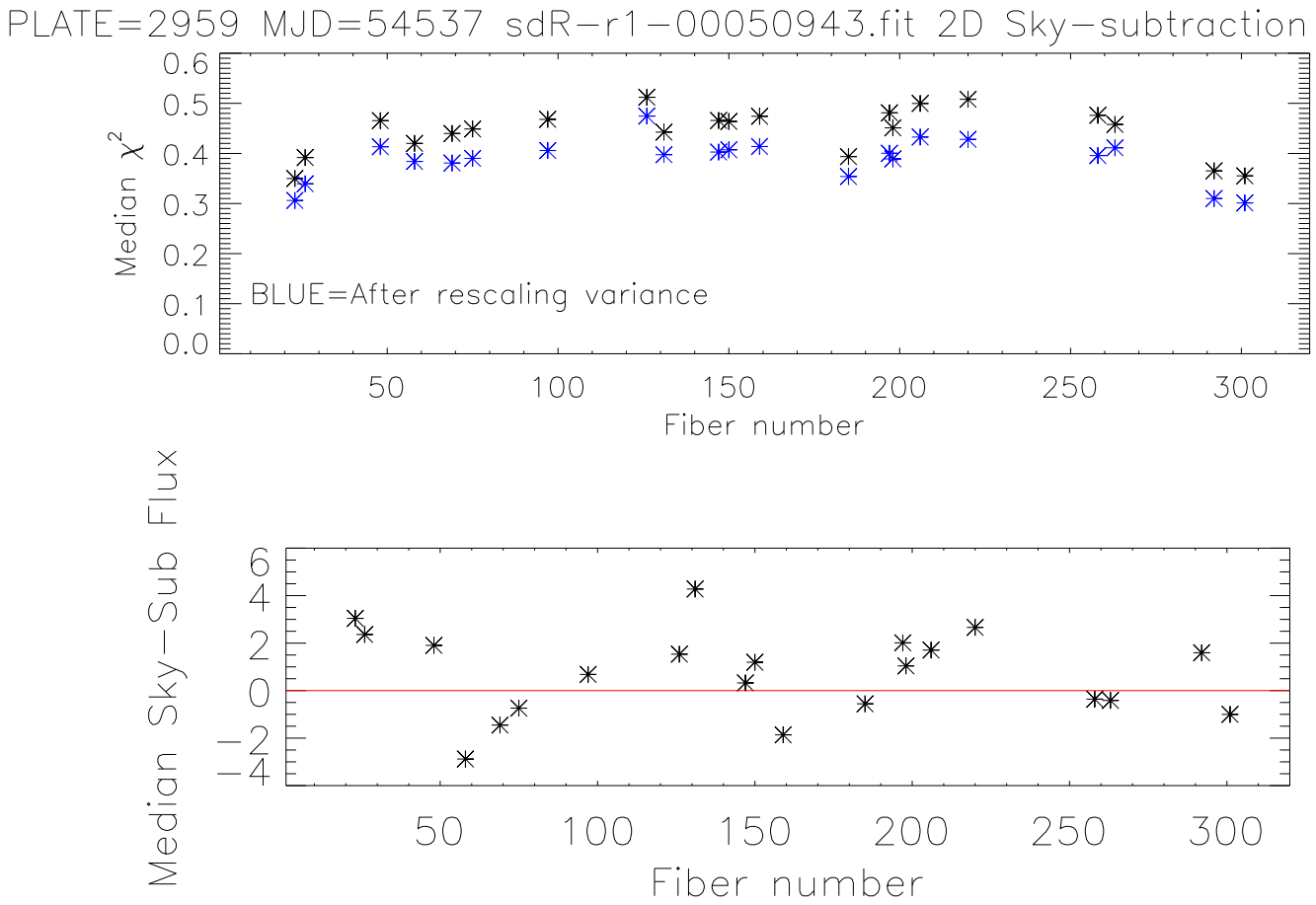

PLATE=2959 MJD=54537 sdR-r1-00050943.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

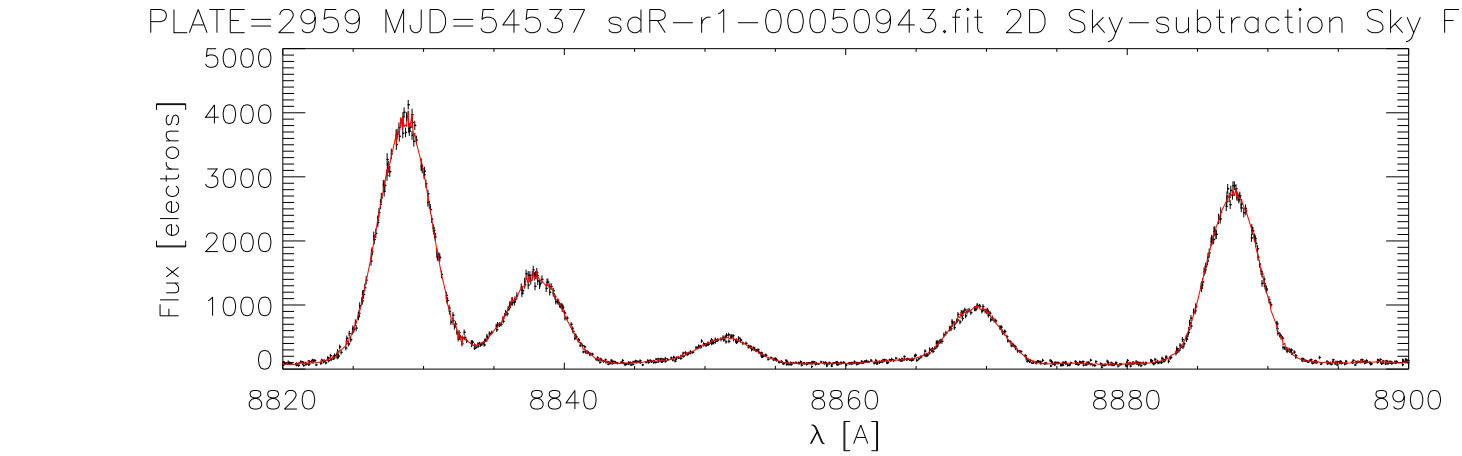
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

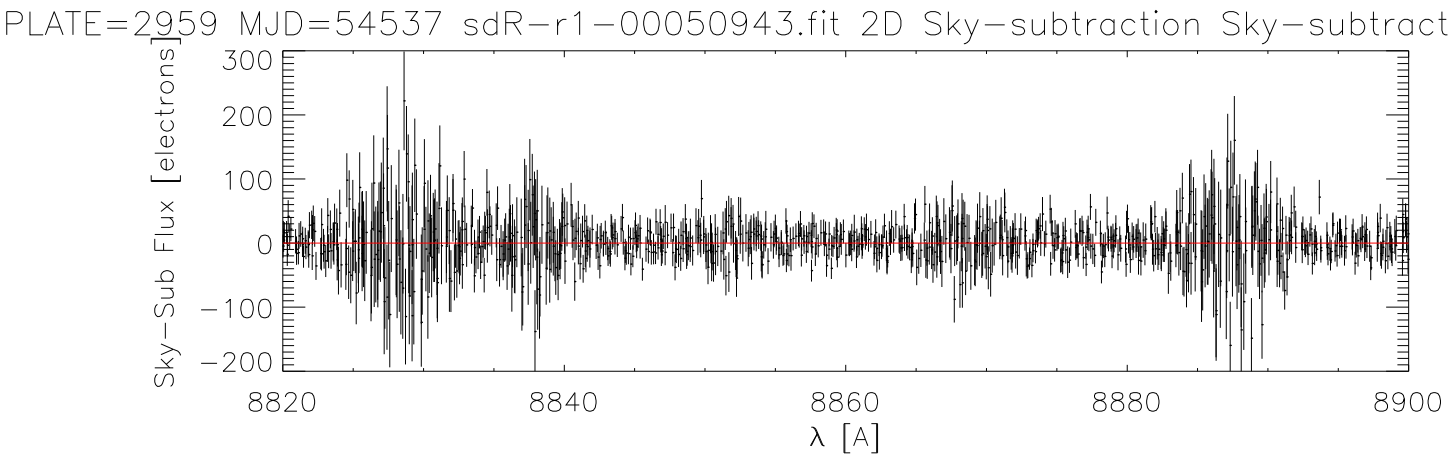

PLATE=2959 MJD=54537 sdR-r1-00050943.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

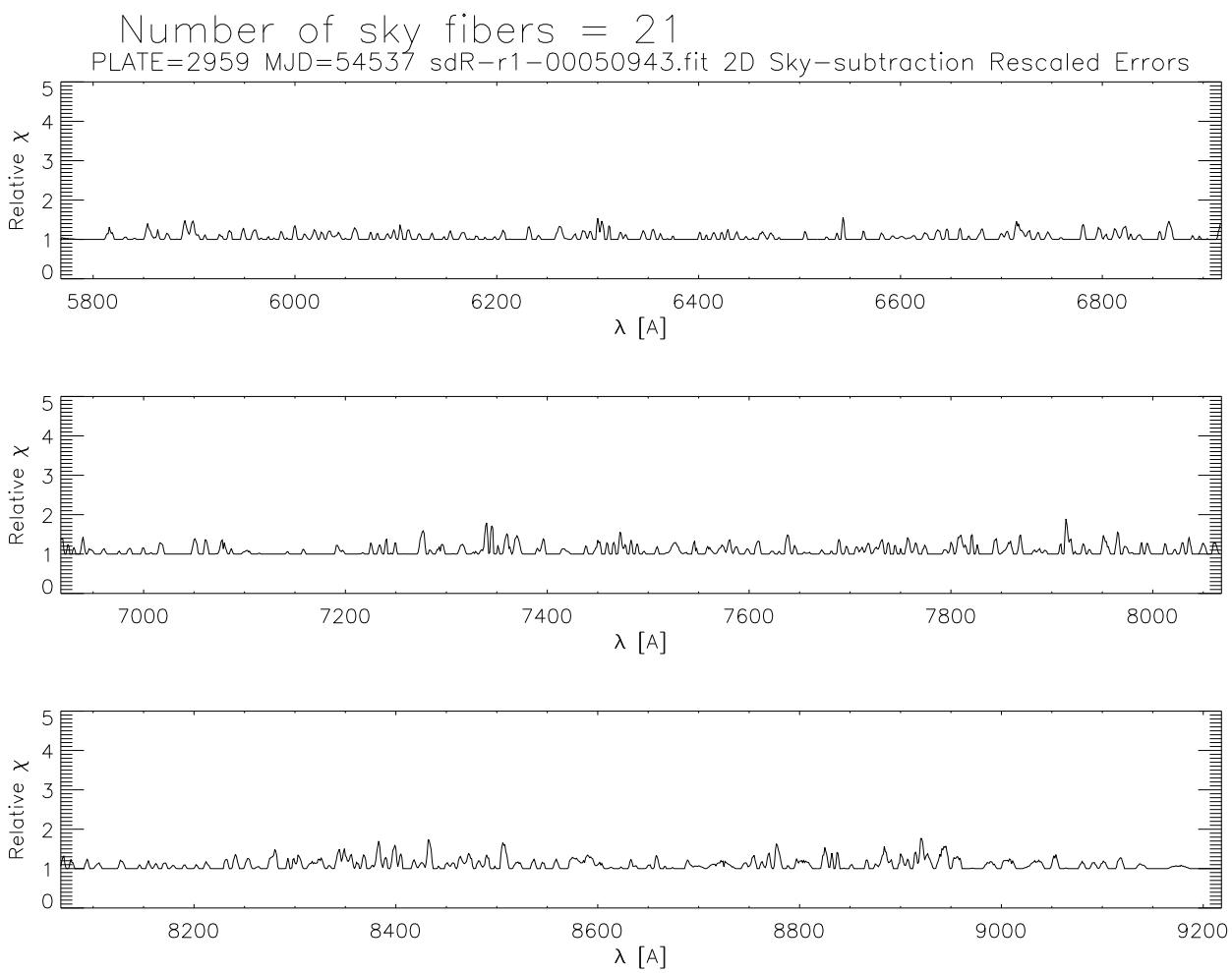

PLATE=2959 MJD=54537 sdR-r1-00050943.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

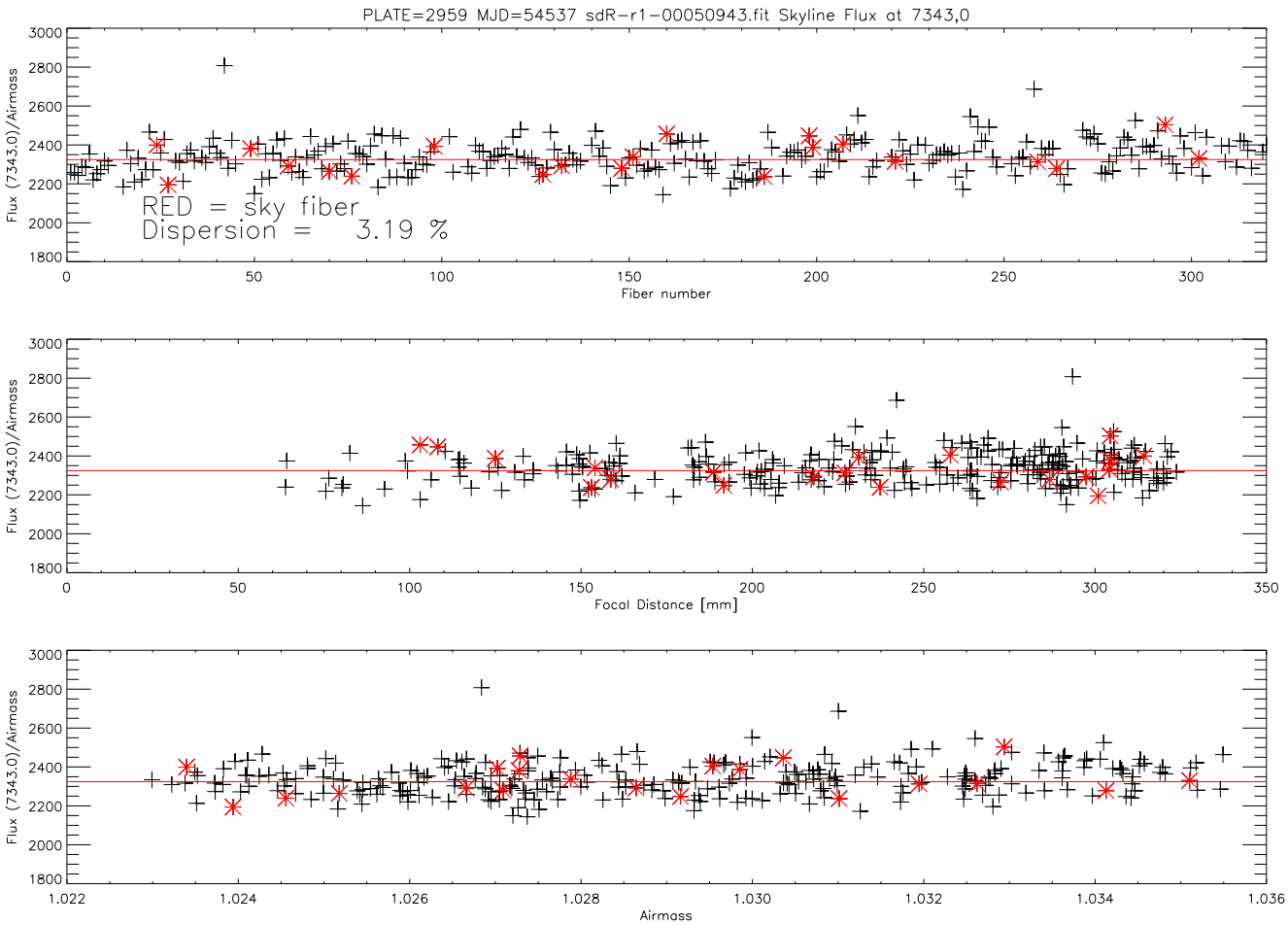

Number of sky fibers = 21
PLATE=2959 MJD=54537 sdR-r1-00050943.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

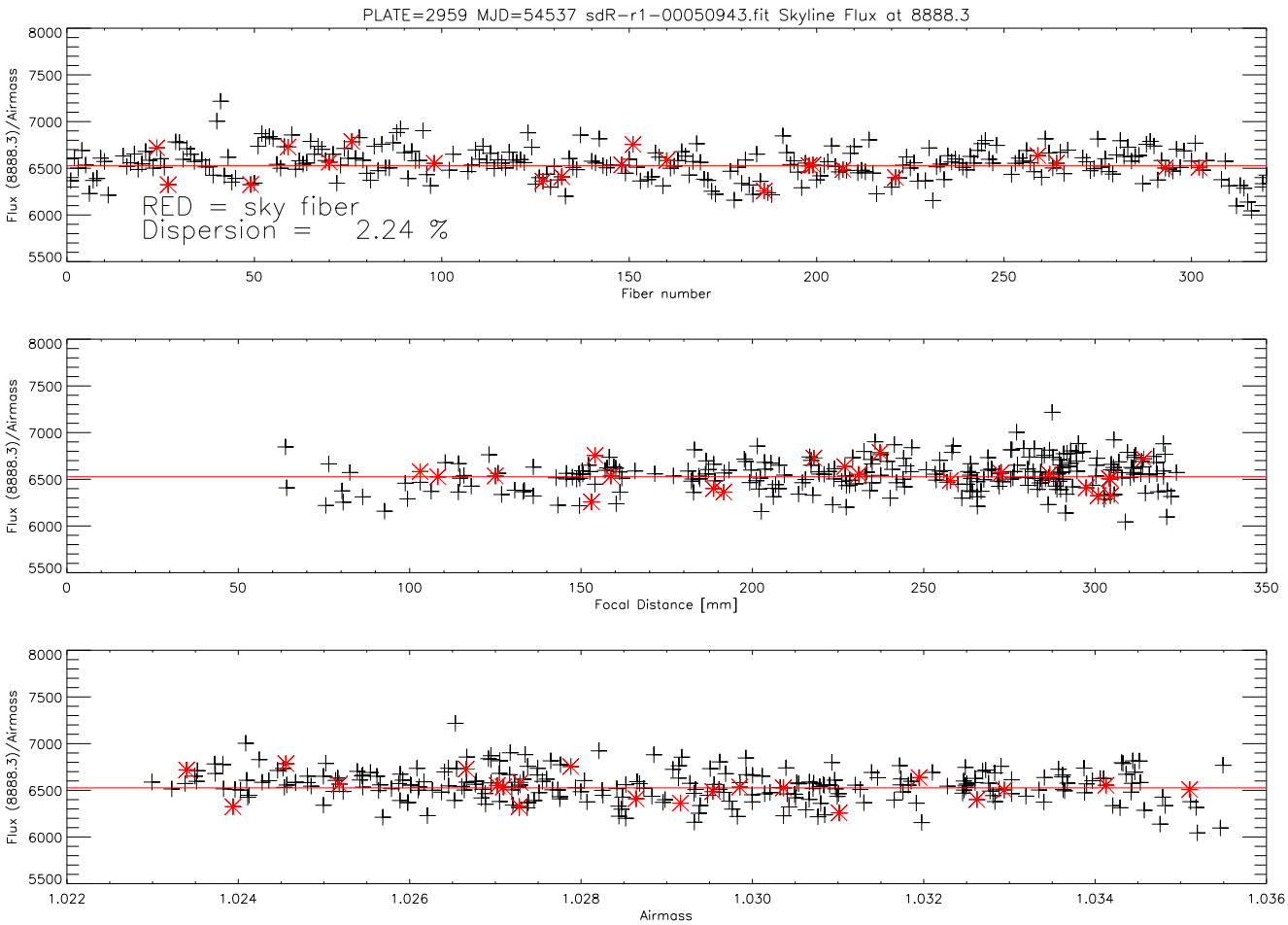

PLATE=2959 MJD=54537 sdR-r1-00050943.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

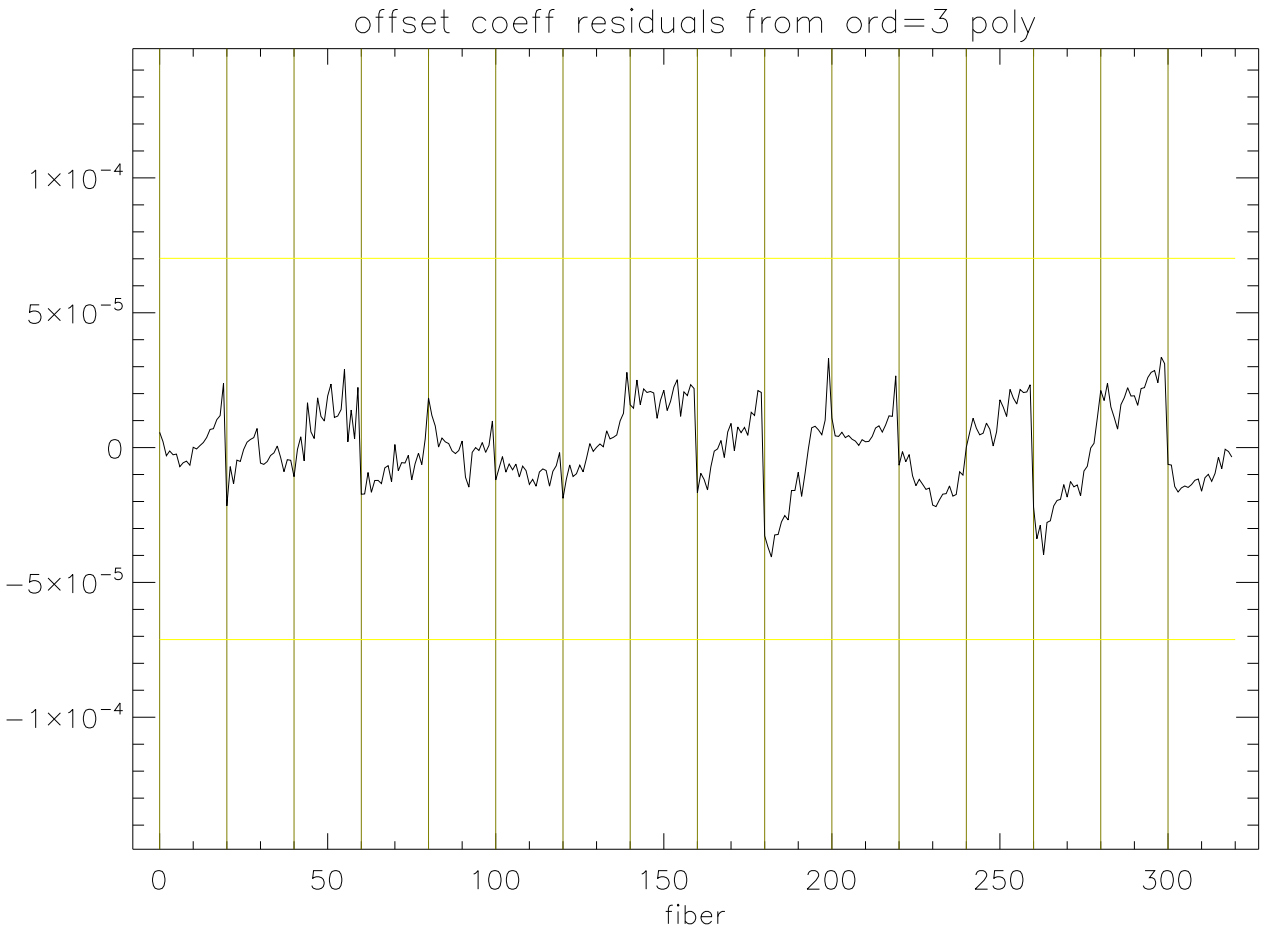

PLATE=2959 MJD=54537 sdR-r1-00050943.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

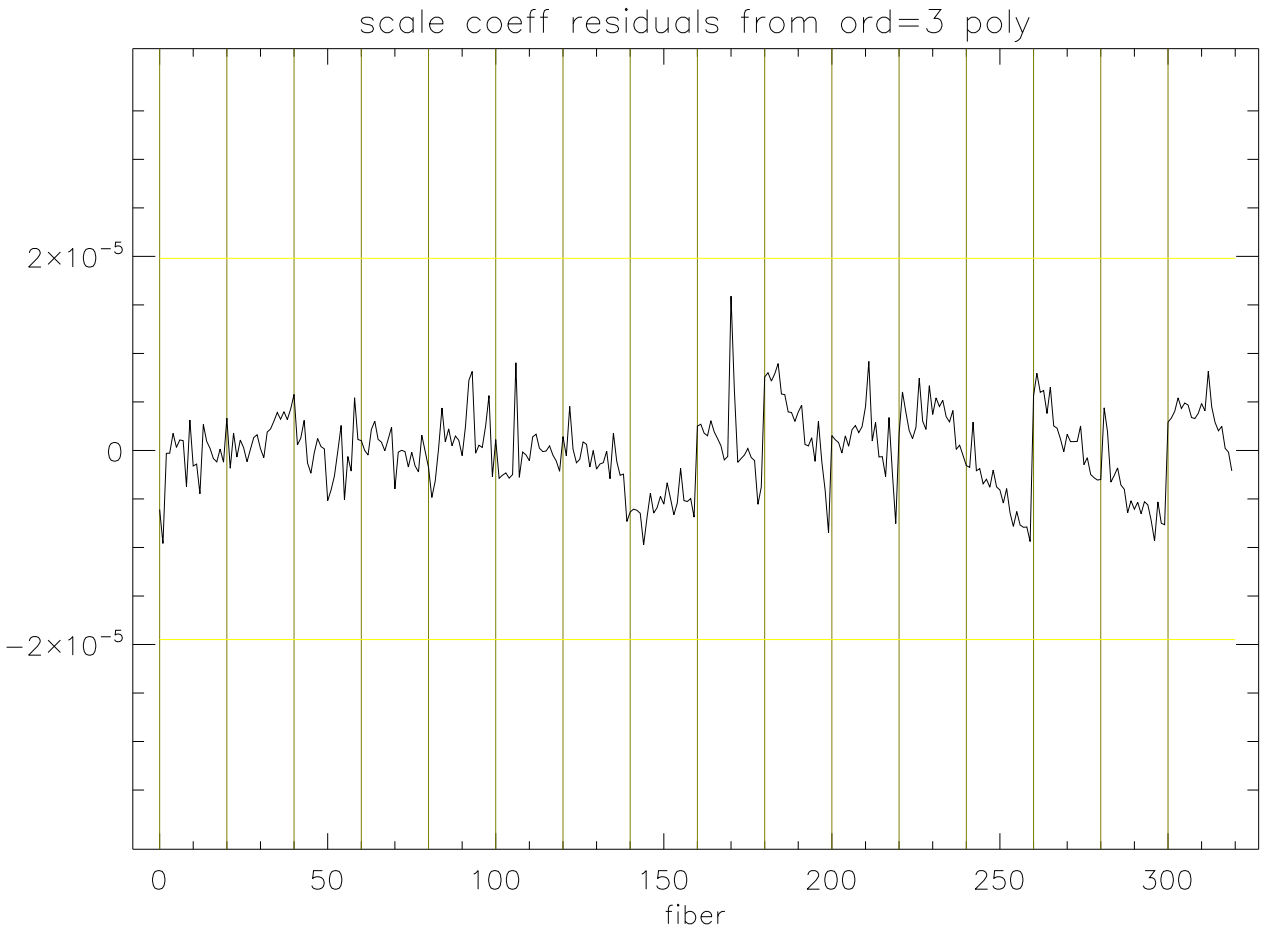

PLATE=2959 MJD=54537 sdR-r1-00050943.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

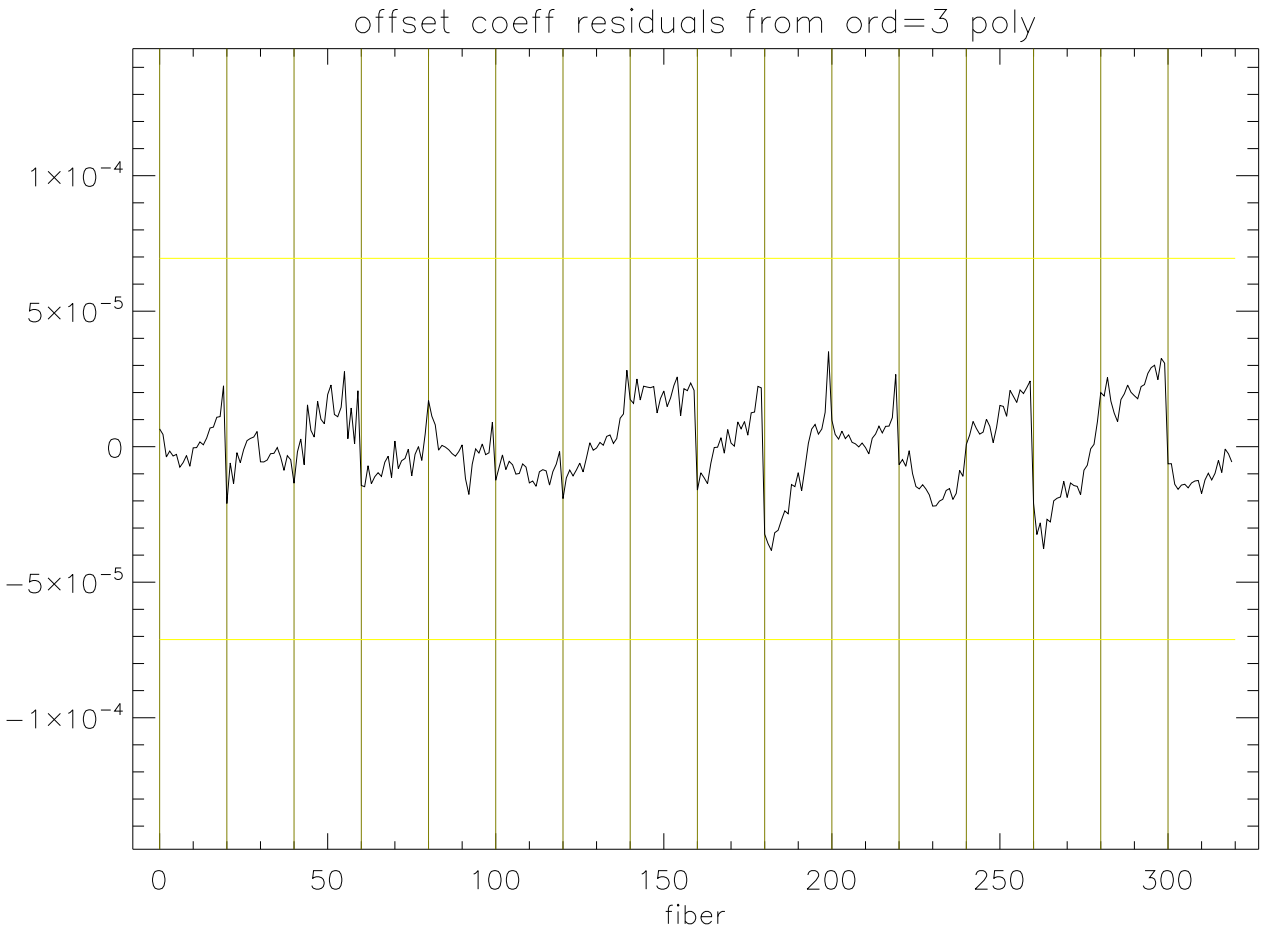

Number of sky fibers = 21
PLATE=2959 MJD=54537 sdR-r1-00050943.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

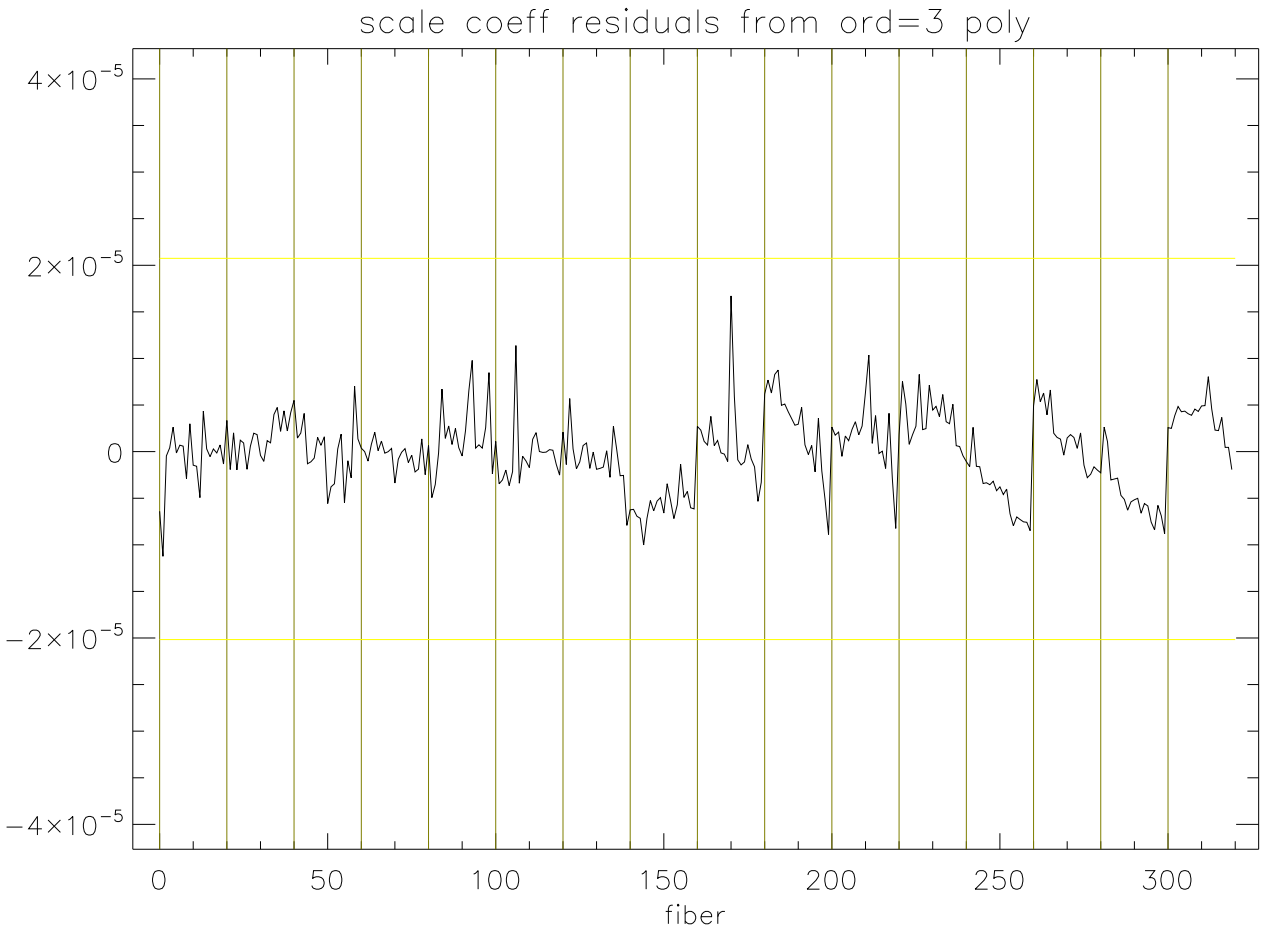

PLATE=2959 MJD=54537 sdR-r1-00050943.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.19 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

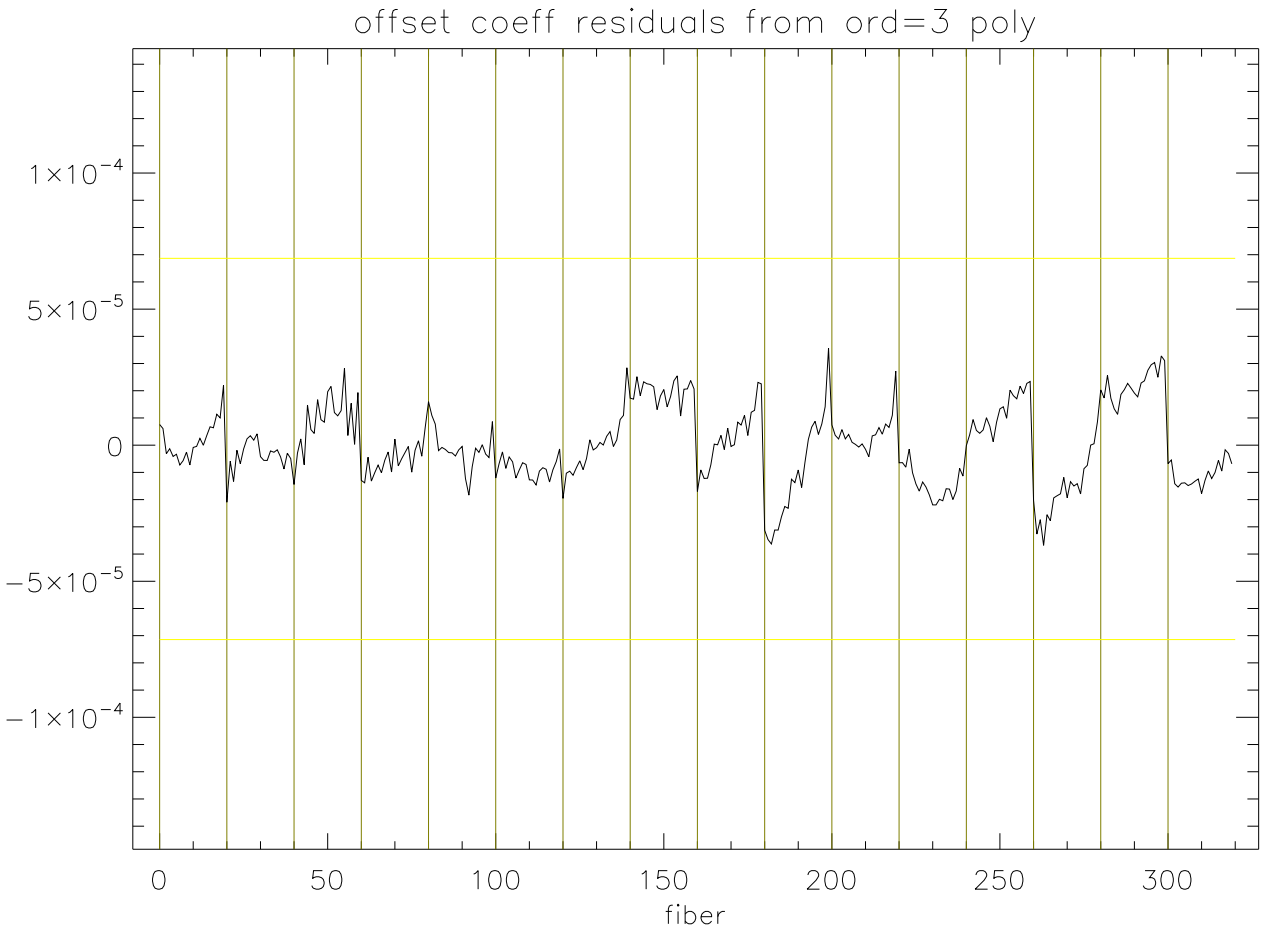

PLATE=2959 MJD=54537 sdR-r1-00050943.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.24 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

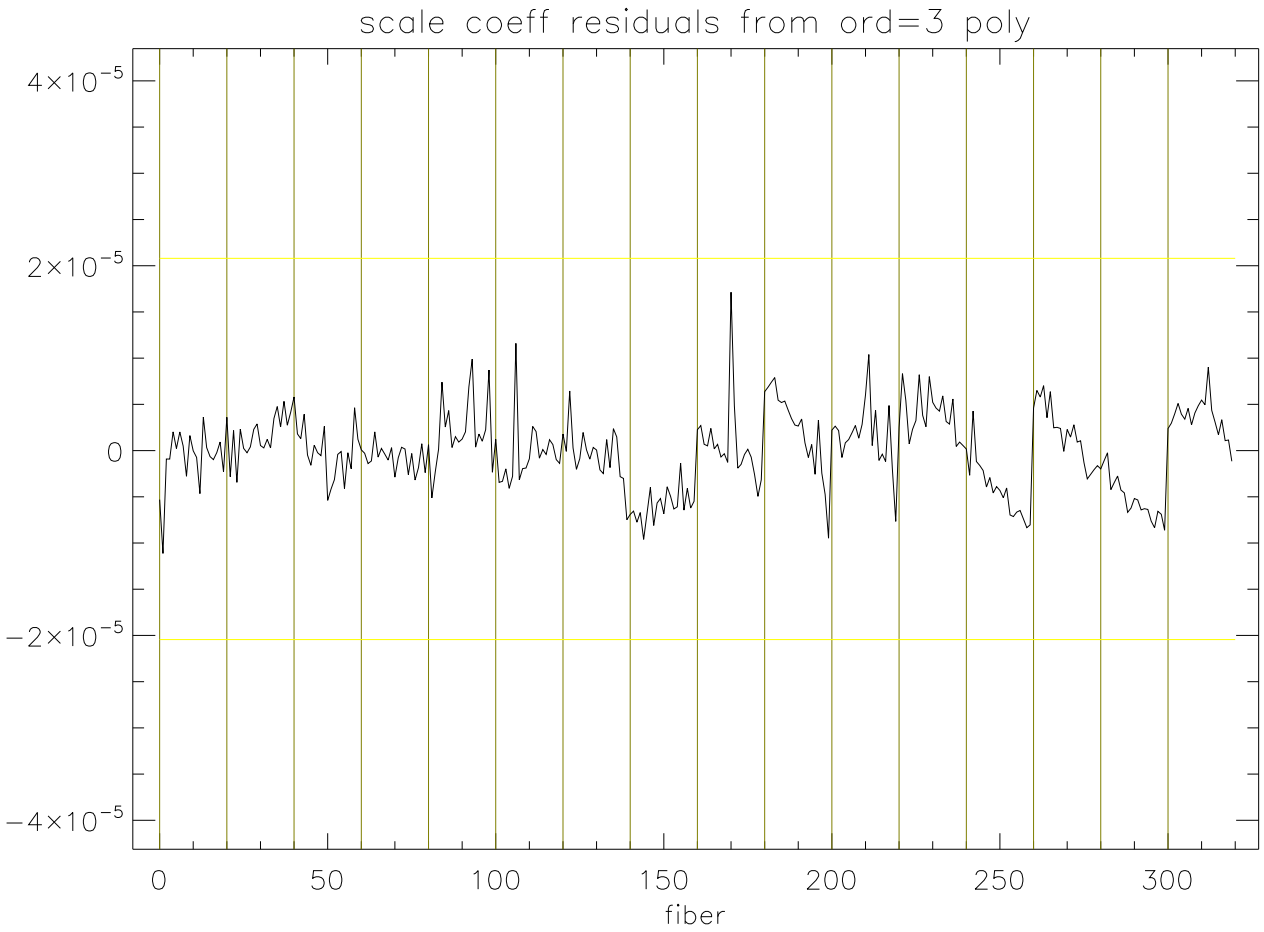

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

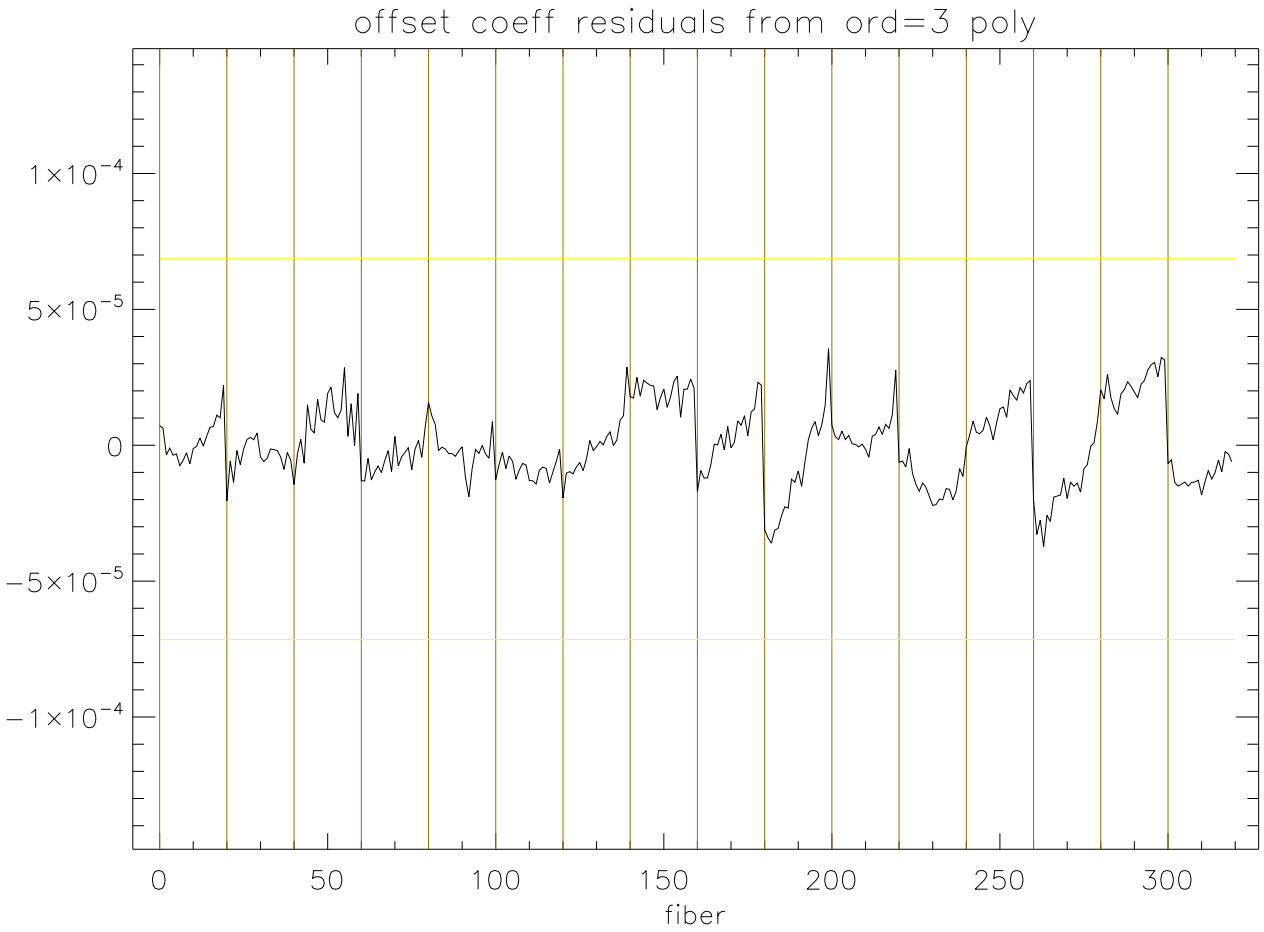

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

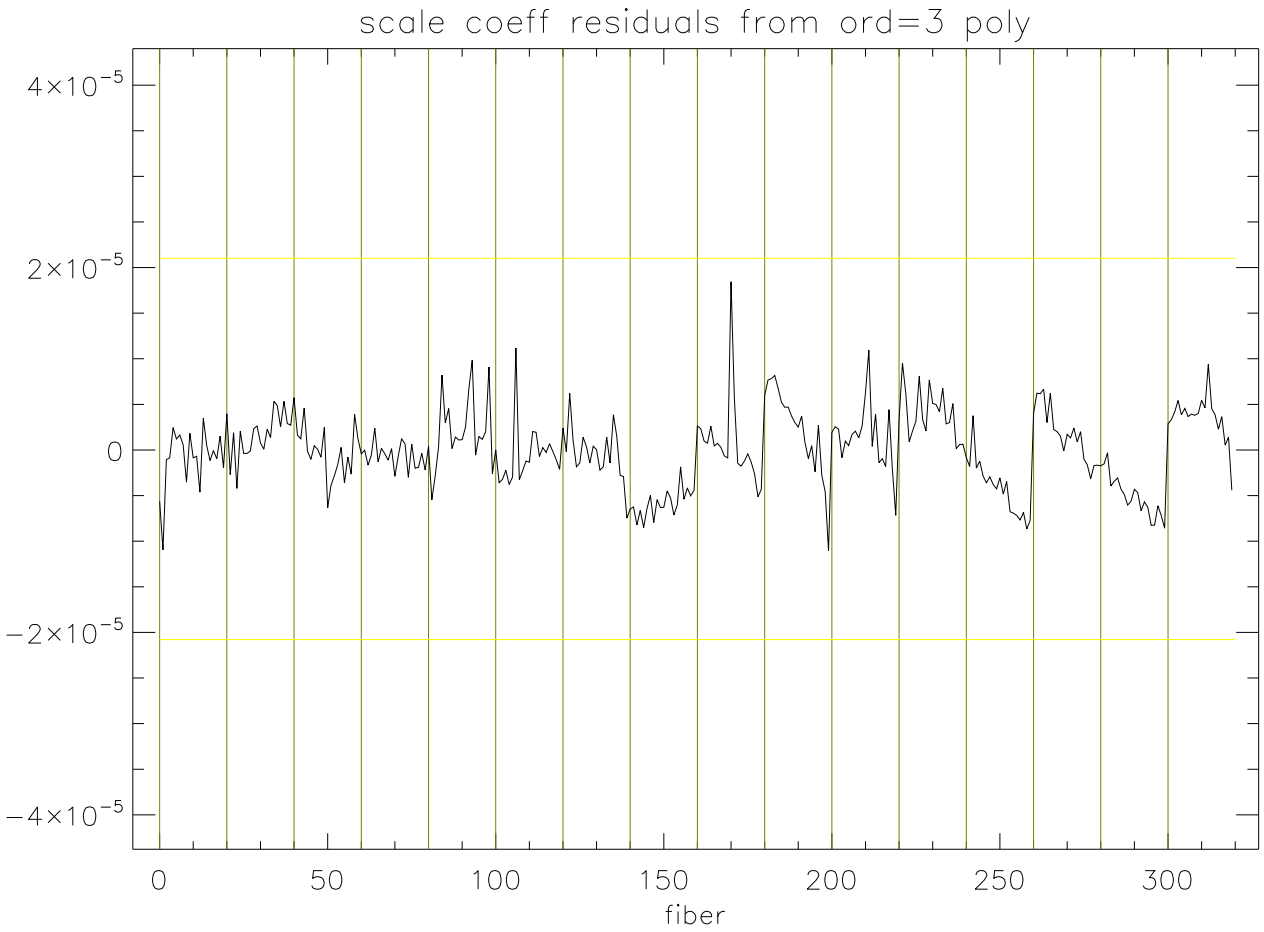

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

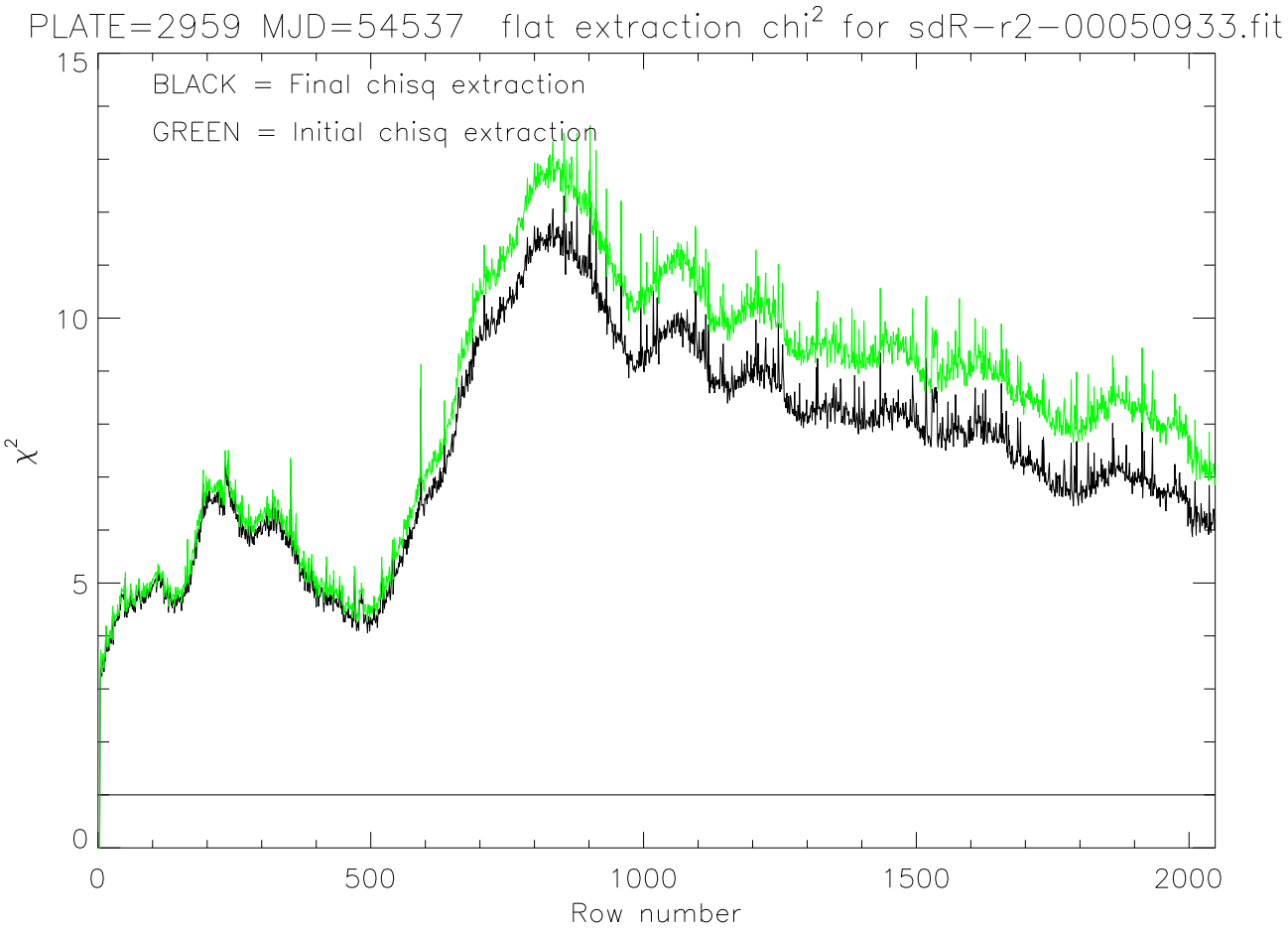

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

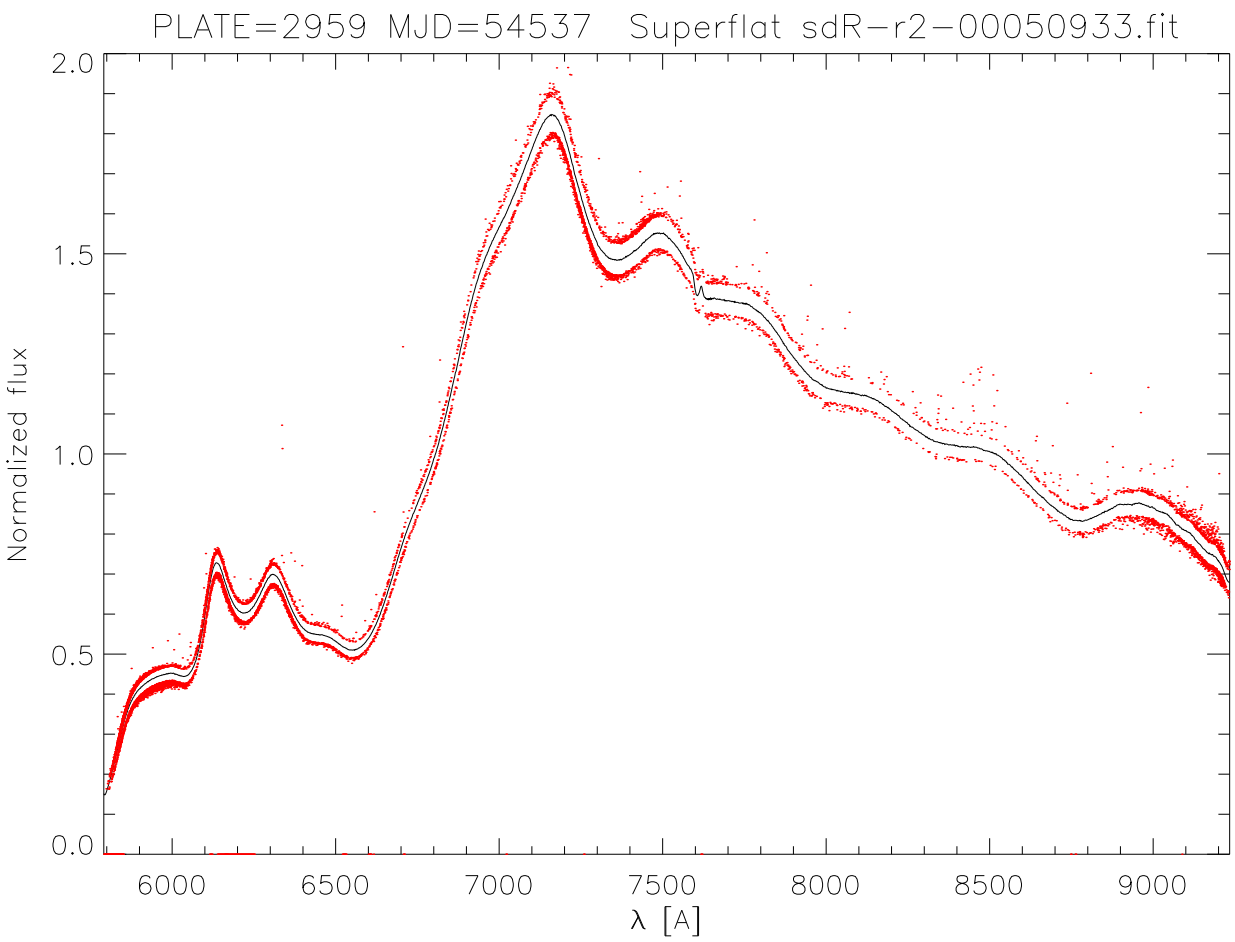

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

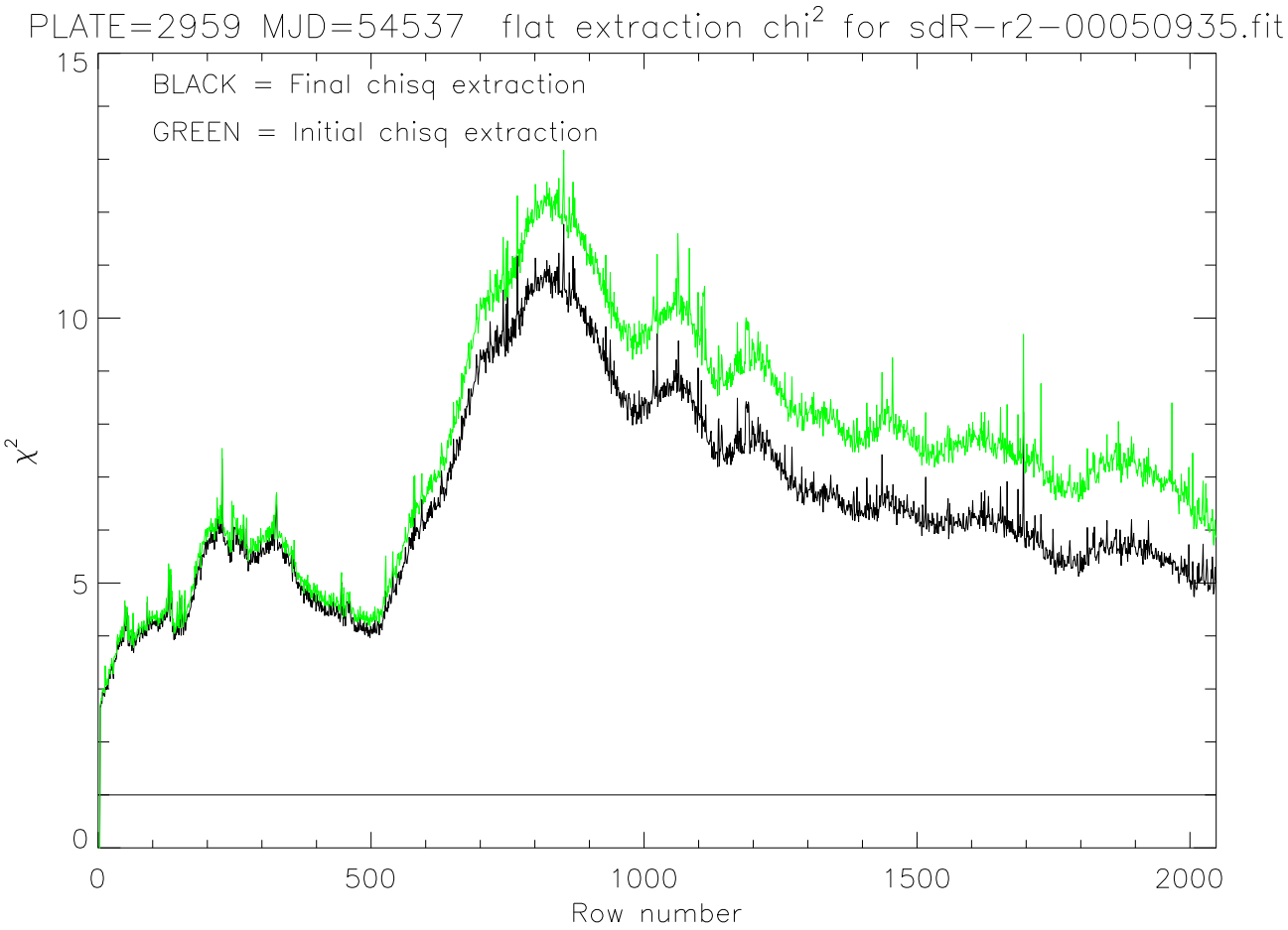

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

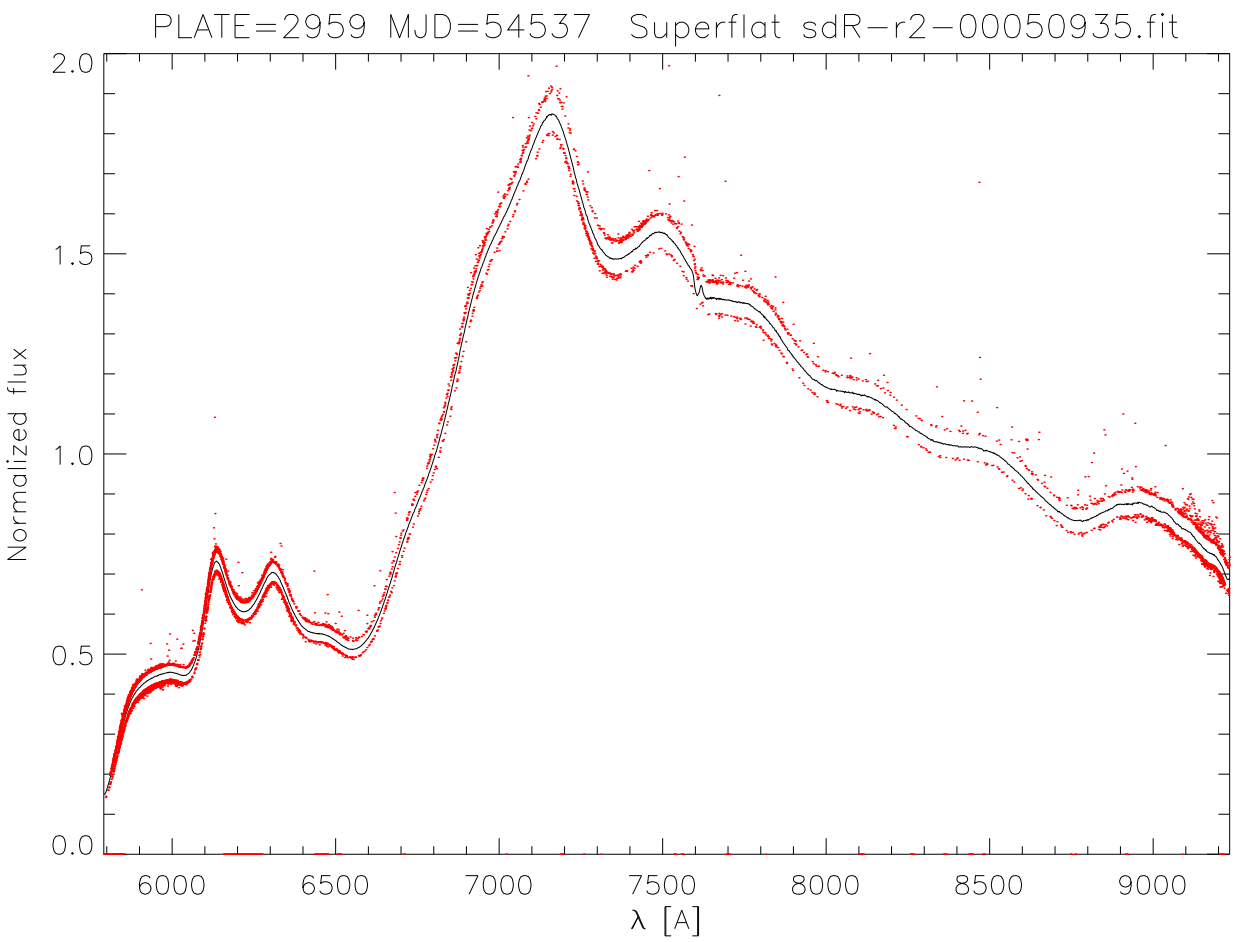

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

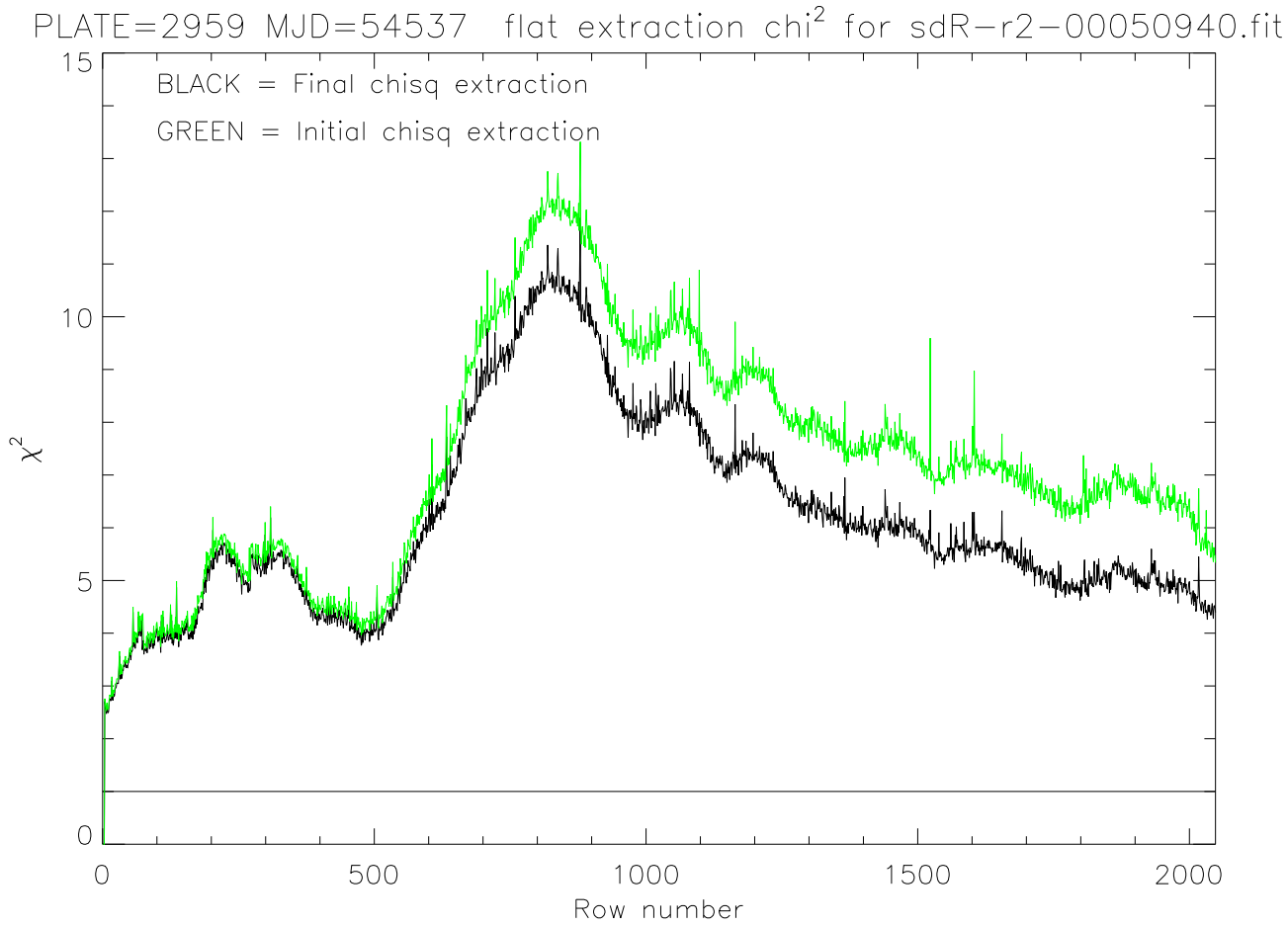

scale coeff residuals from ord=3 poly
4×10^-5
2×10^-5
0
−2×10^-5
−4×10^-5
0
50
100
150
200
250
300
fiber

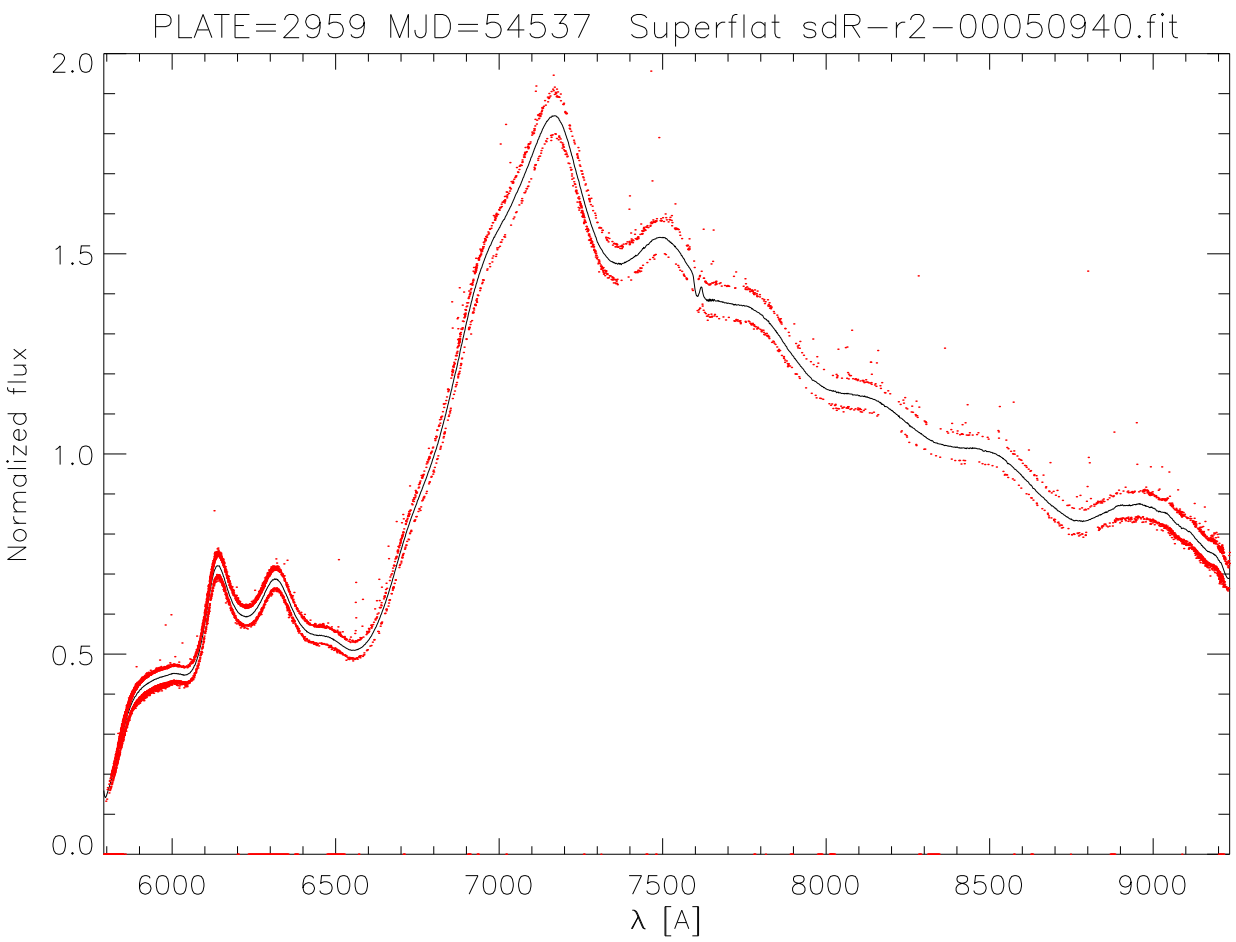

PLATE=2959 MJD=54537 flat extraction chi^2 for sdR-r2-00050933.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
5
10
15
0
500
1000
1500
2000

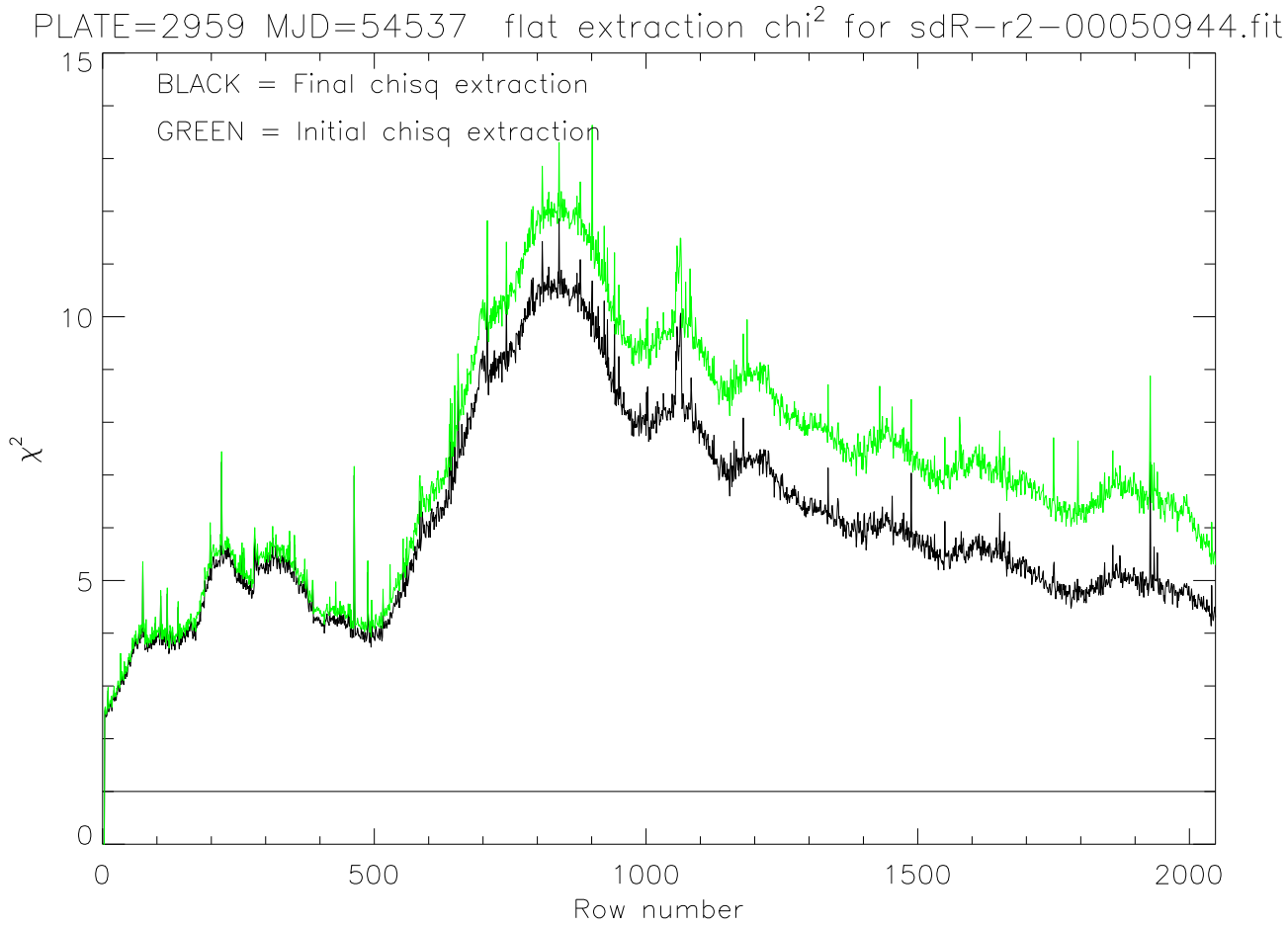

PLATE=2959 MJD=54537 Superflat sdR-r2-00050933.fit
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
6000
6500
7000
7500
8000
8500
9000

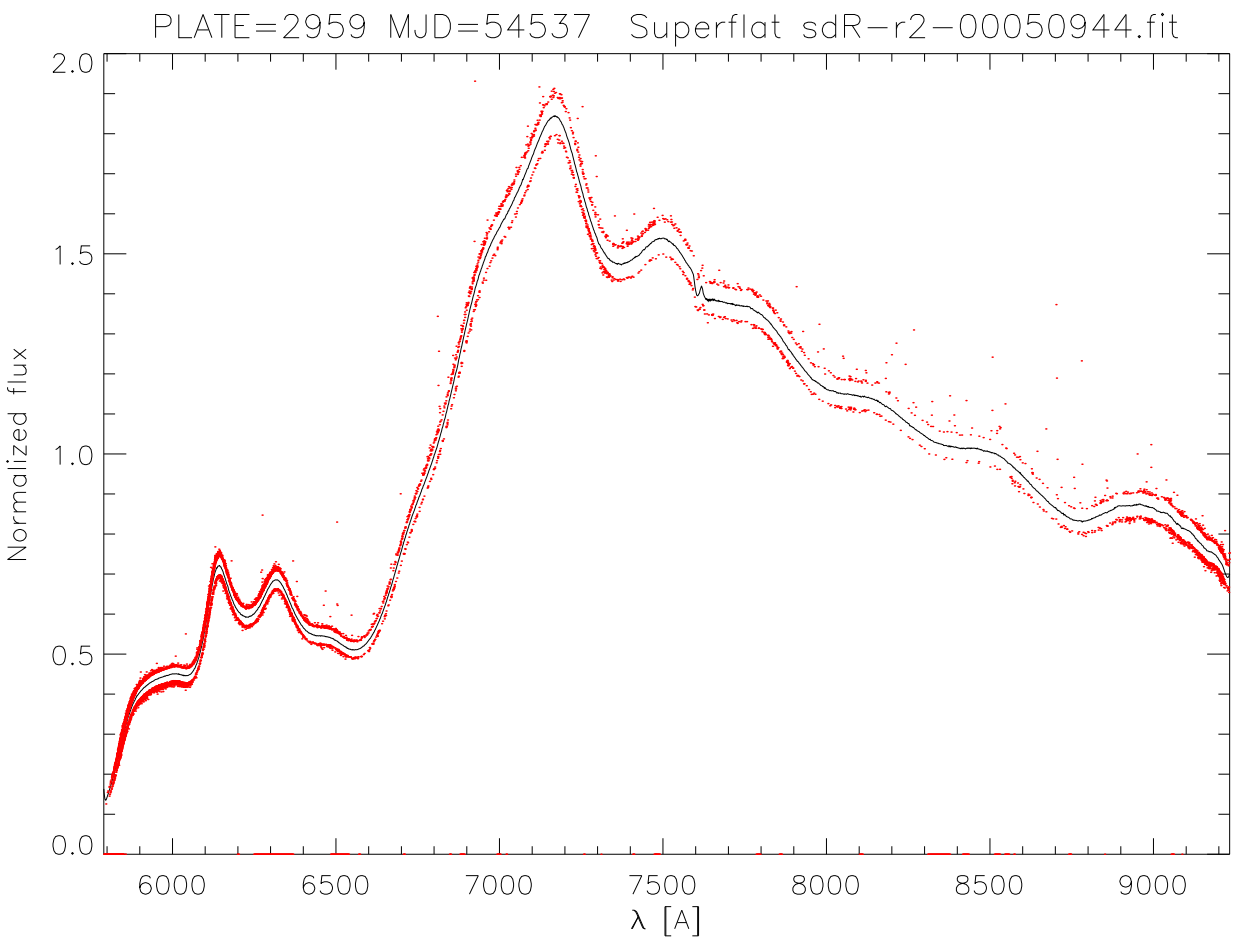

PLATE=2959 MJD=54537 flat extraction chi^2 for sdR−r2−00050935.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
5
10
15
0
500
1000
1500
2000

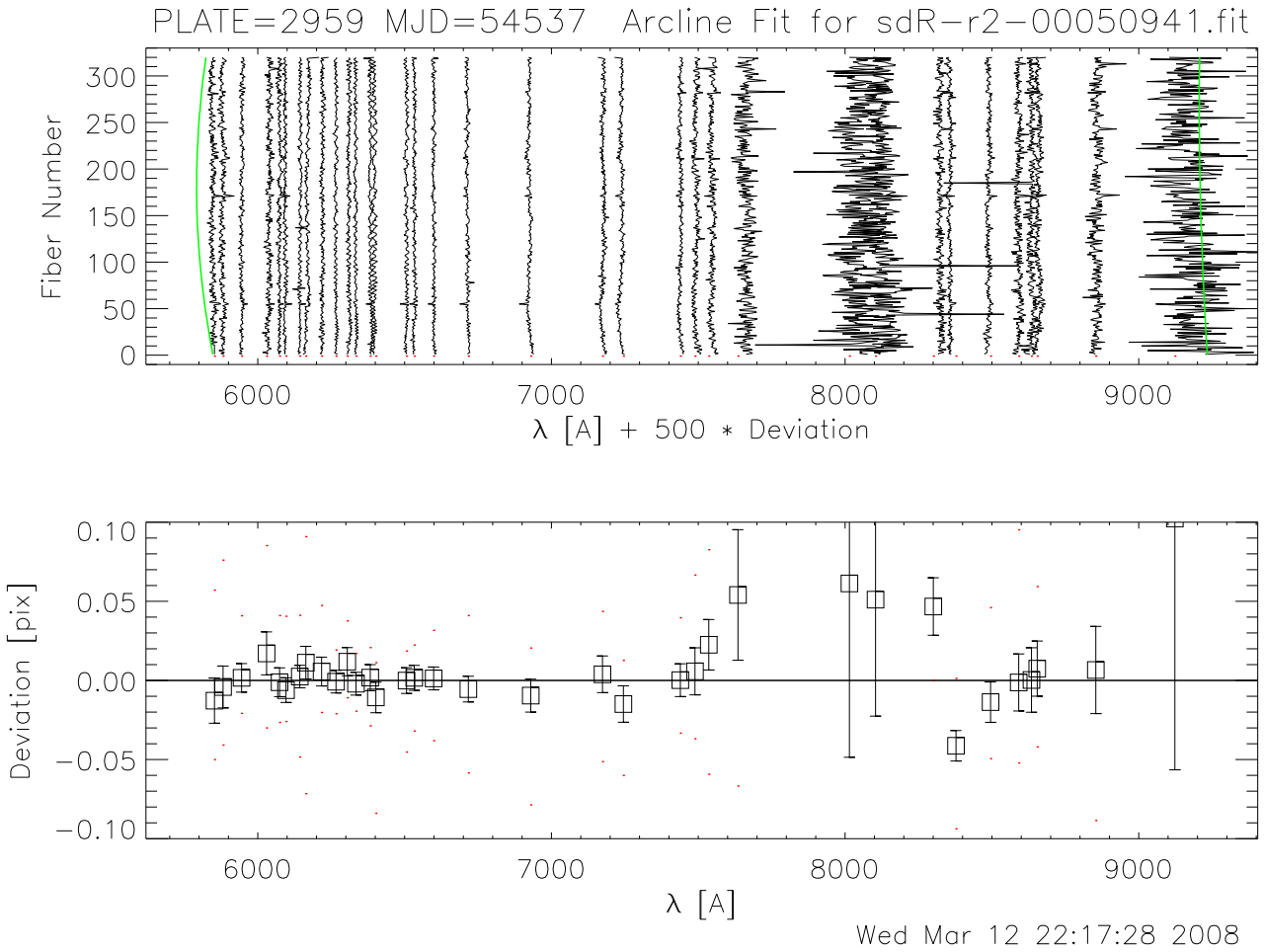

PLATE=2959 MJD=54537 Superflat sdR-r2-00050935.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

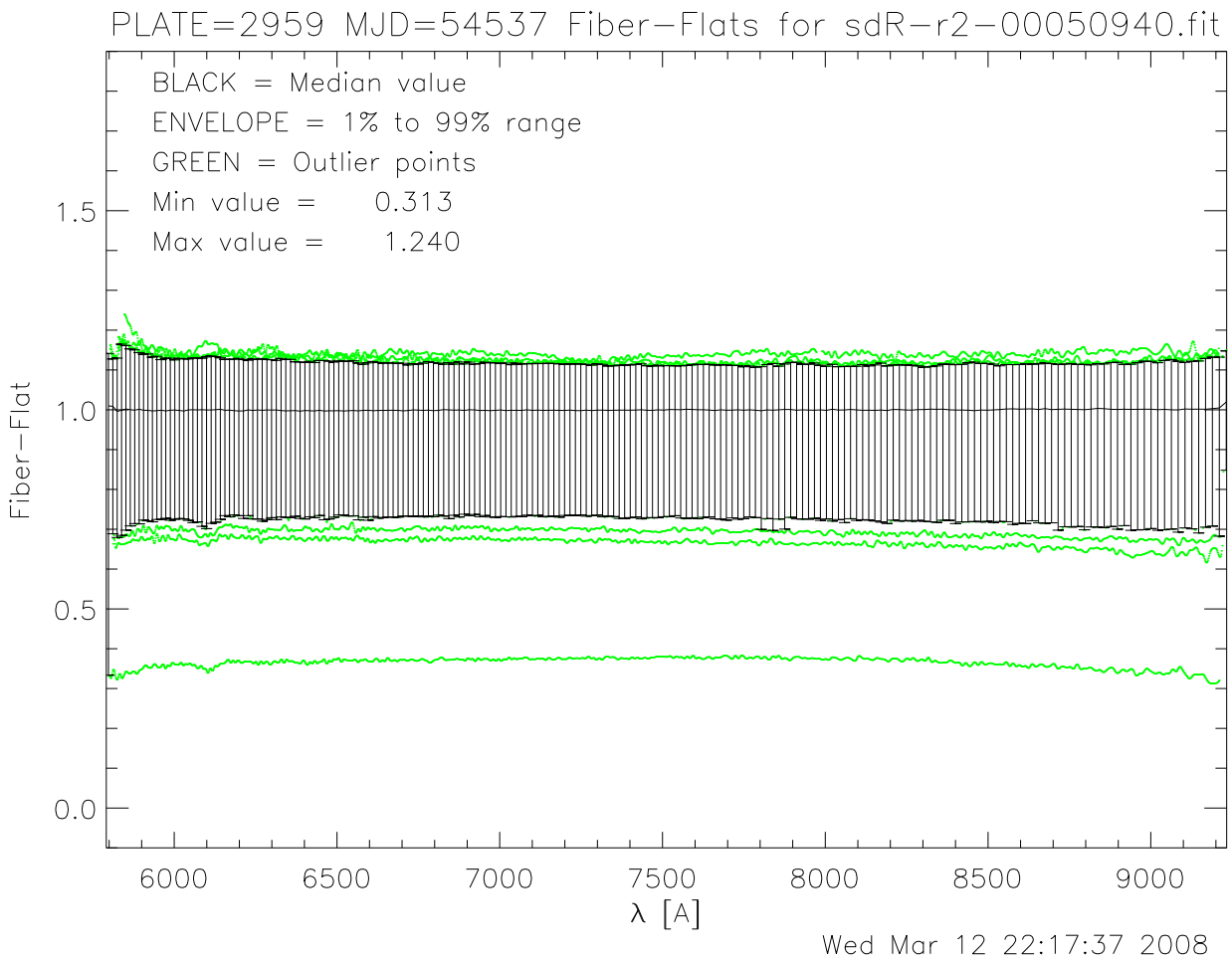

PLATE=2959 MJD=54537 flat extraction chi^2 for sdR-r2-00050940.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
5
10
15
0
500
1000
1500
2000

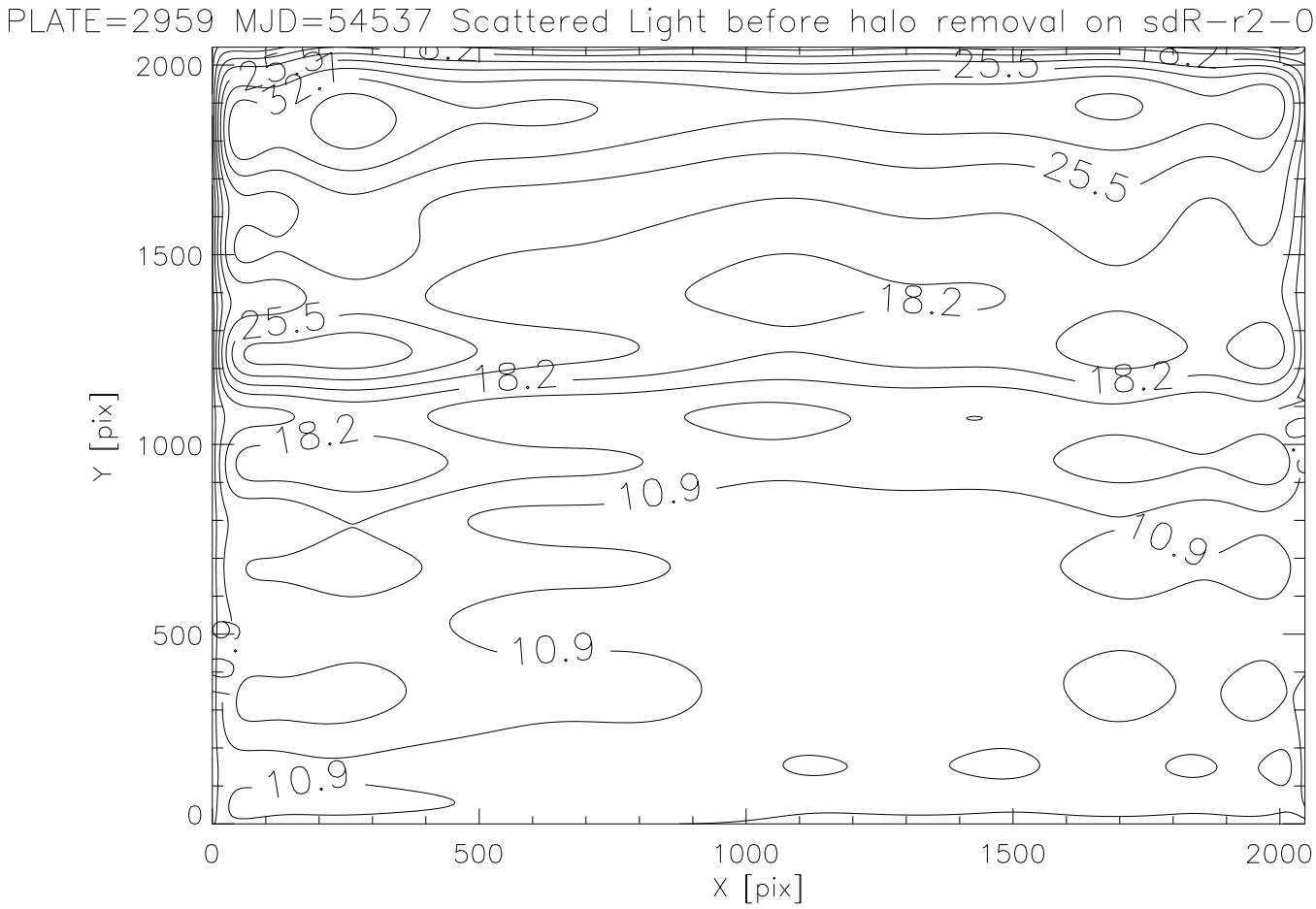

PLATE=2959 MJD=54537 Superflat sdR-r2-00050940.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

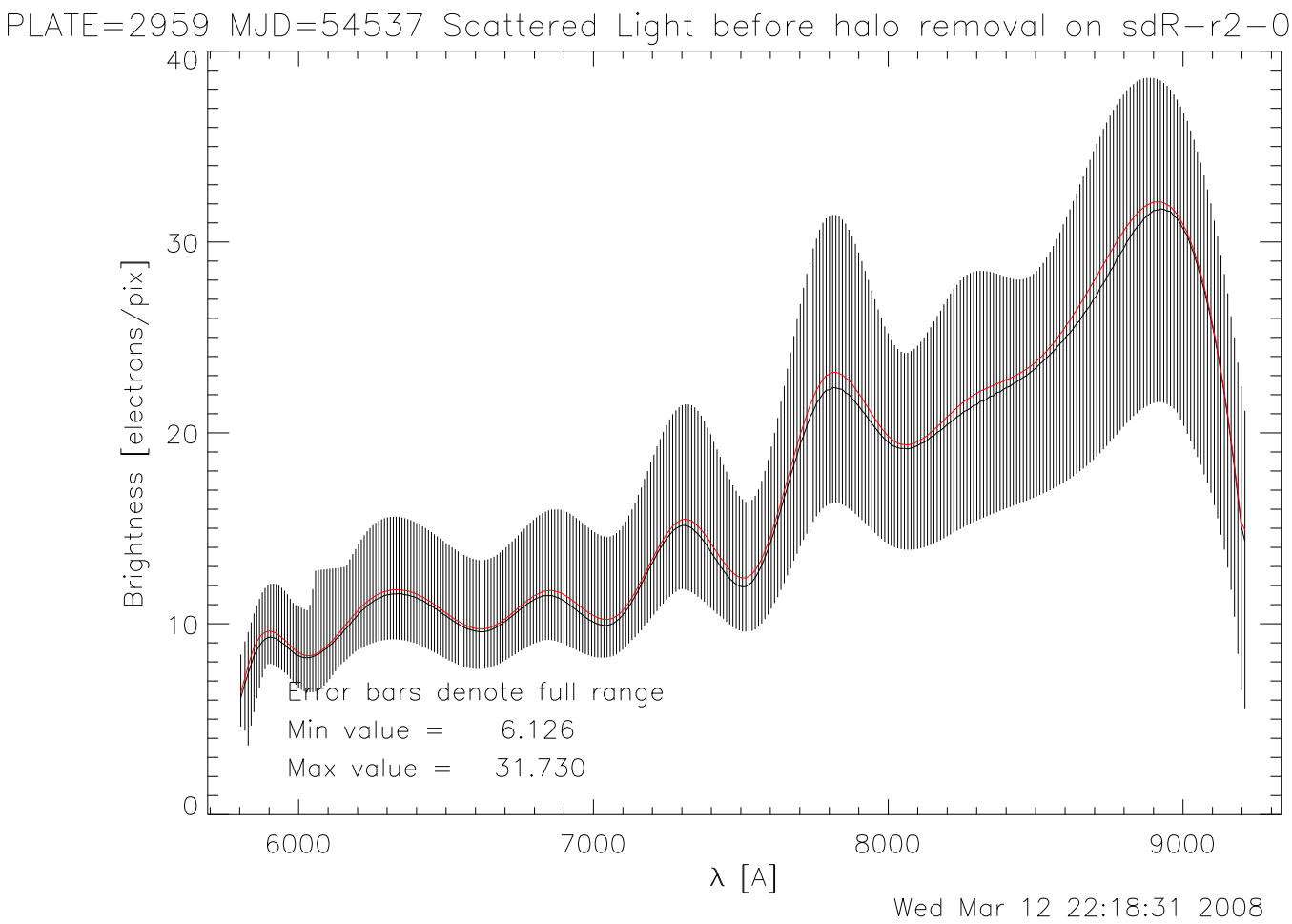

PLATE=2959 MJD=54537 flat extraction chi^2 for sdR−r2−00050944.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
5
10
15
0
500
1000
1500
2000

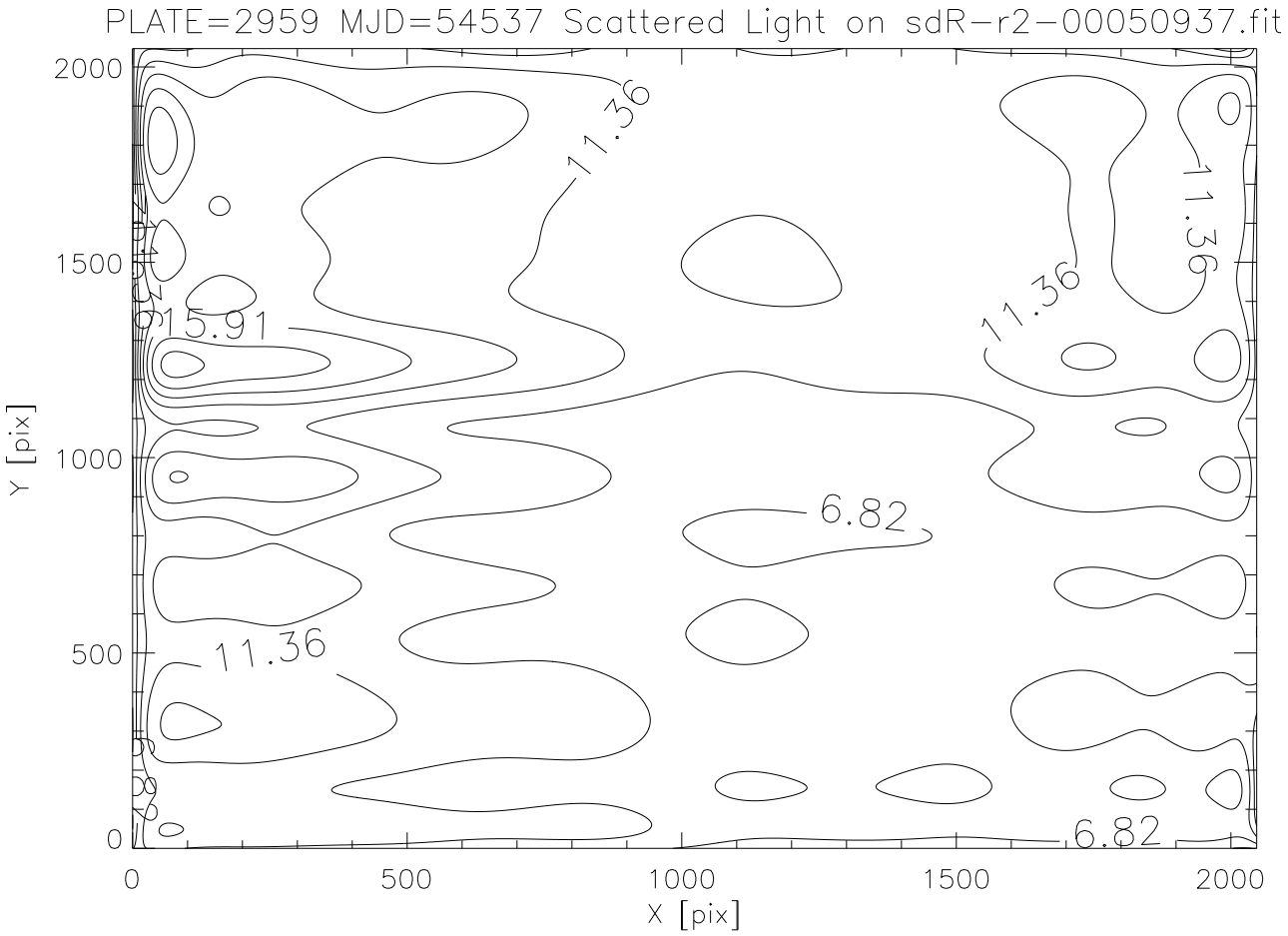

PLATE=2959 MJD=54537 Superflat sdR-r2-00050944.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

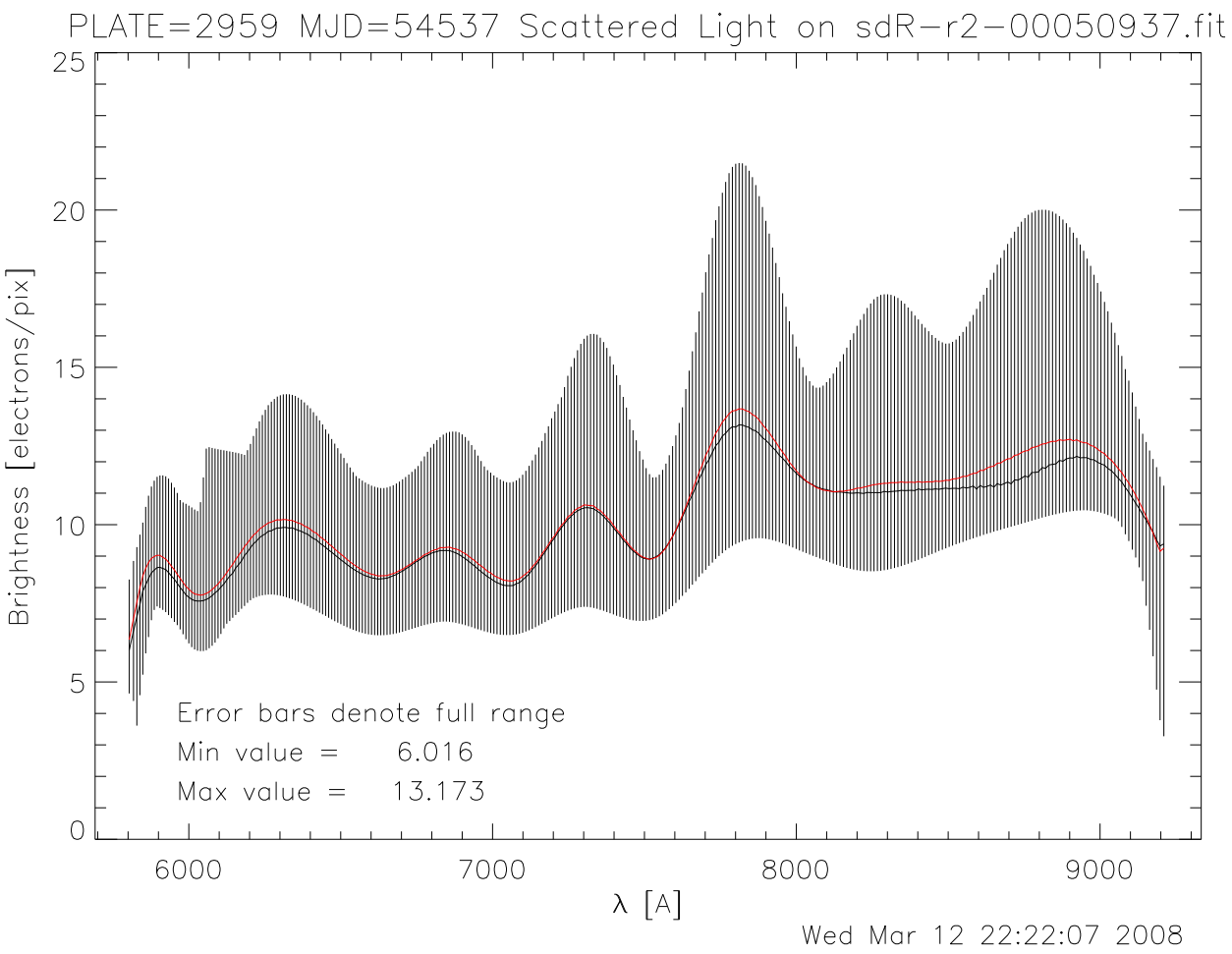

PLATE=2959 MJD=54537 Arcline Fit for sdR-r2-00050941.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Wed Mar 12 22:17:28 2008

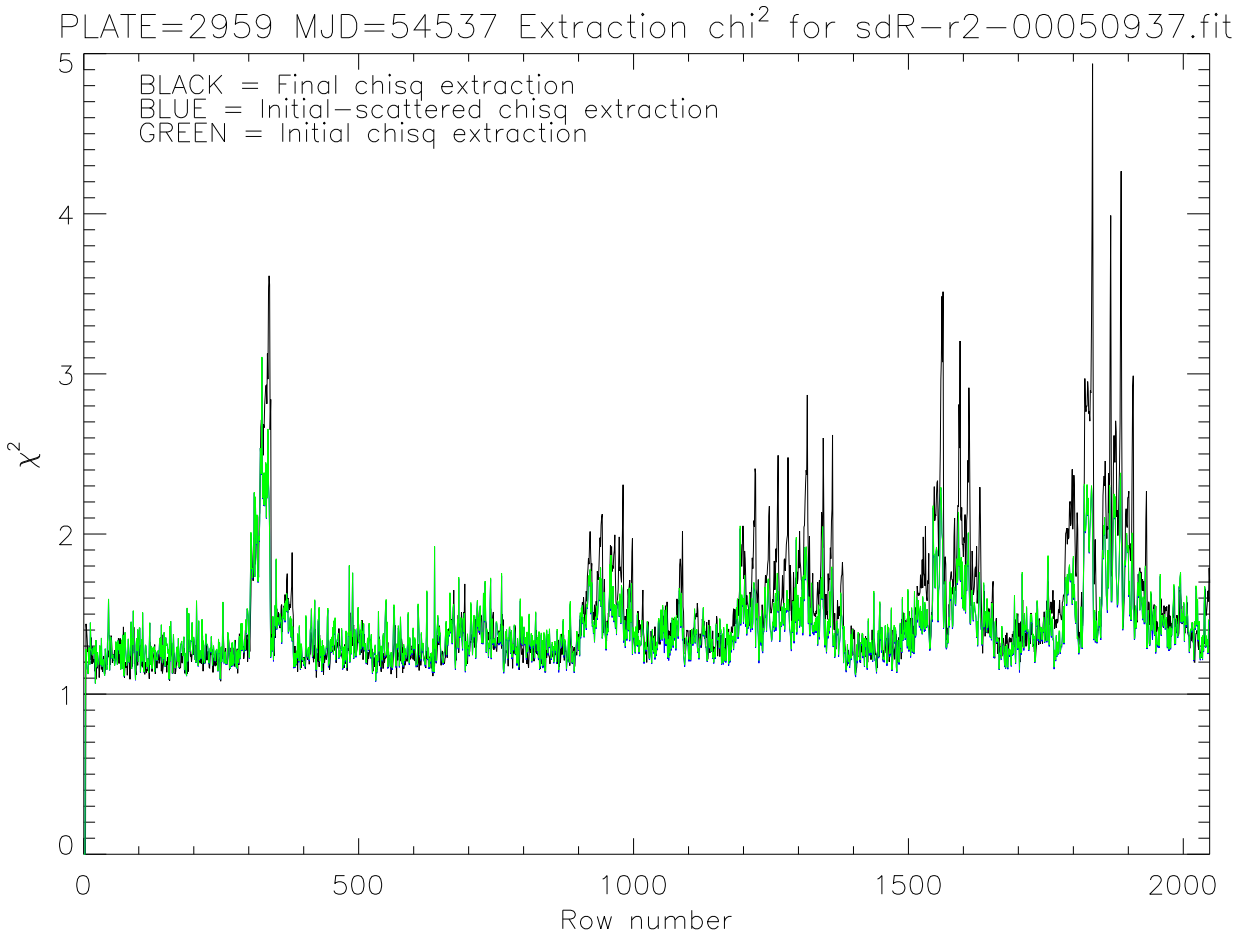

PLATE=2959 MJD=54537 Fiber−Flats for sdR−r2−00050940.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.313
Max value = 1.240
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 12 22:17:37 2008

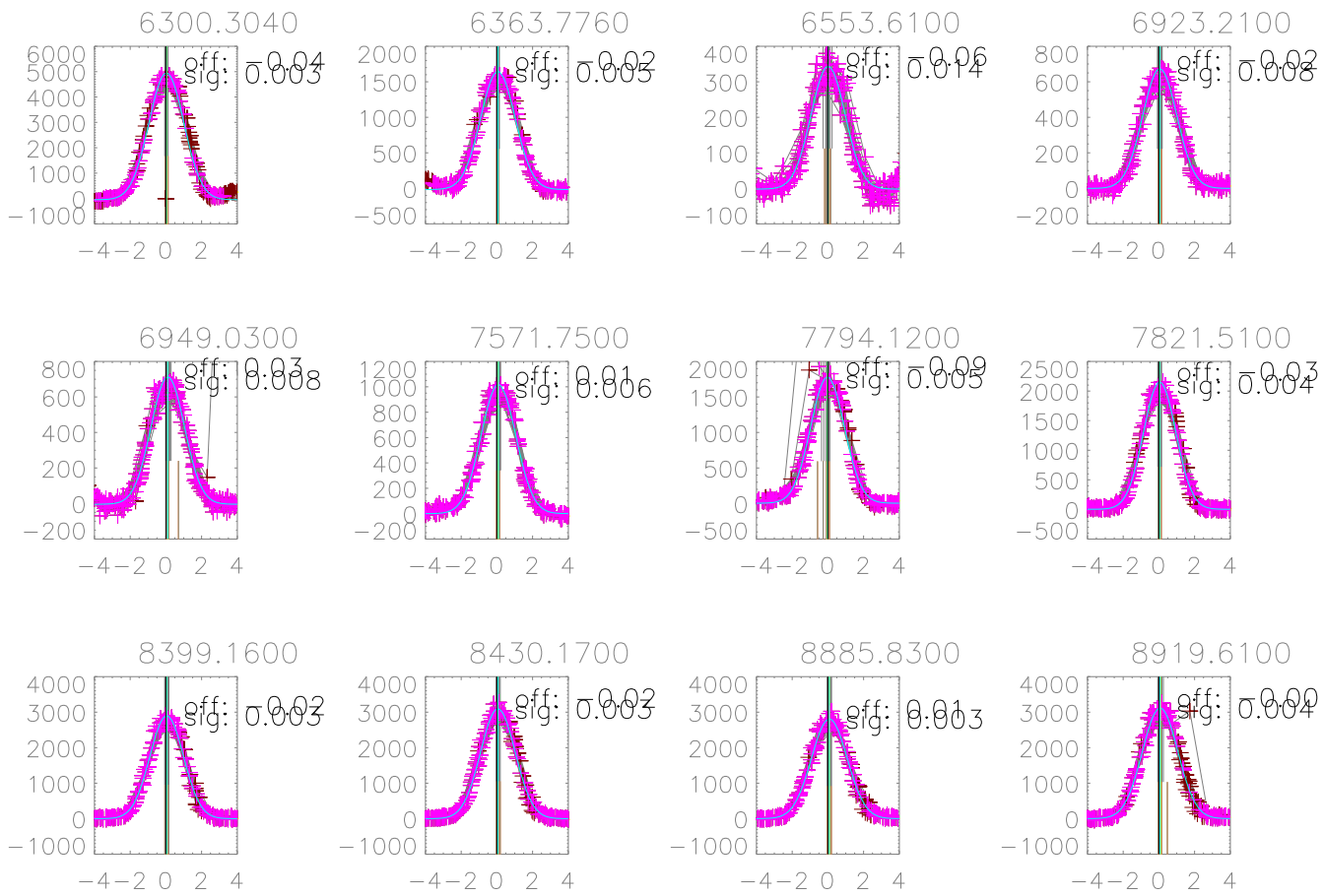

PLATE=2959 MJD=54537 Scattered Light before halo removal on sdR-r2-00050937.fi
25.5
18.2
10.9
Y [pix]
X [pix]
0
500
1000
1500
2000

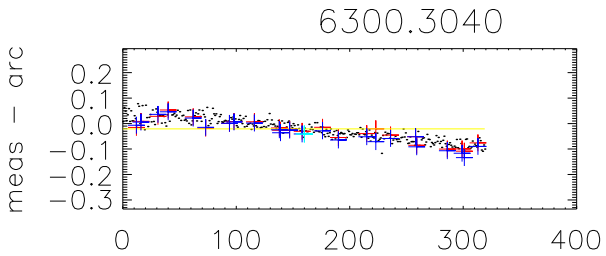

PLATE=2959 MJD=54537 Scattered Light before halo removal on sdR-r2-00050937.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.126
Max value = 31.730
Wed Mar 12 22:18:31 2008

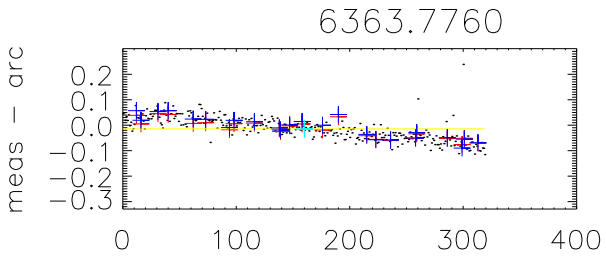

PLATE=2959 MJD=54537 Scattered Light on sdR-r2-00050937.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
11.36
15.91
6.82
11.36
11.36
6.82

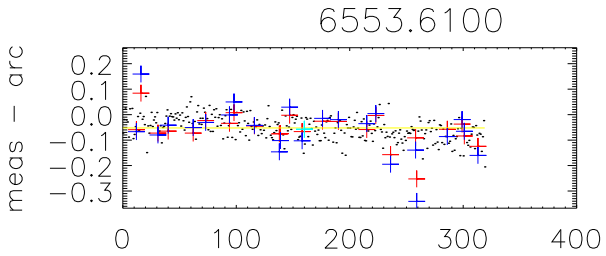

PLATE=2959 MJD=54537 Scattered Light on sdR-r2-00050937.fit
Brightness [electrons/pix]
25
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 6.016
Max value = 13.173
Wed Mar 12 22:22:07 2008

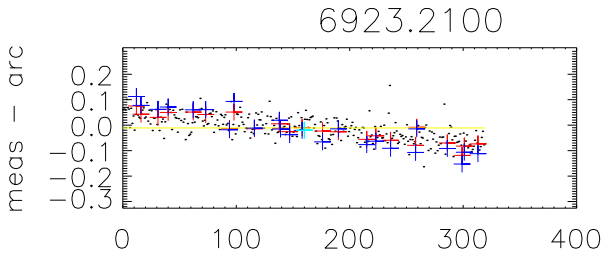

PLATE=2959 MJD=54537 Extraction chi^2 for sdR−r2−00050937.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

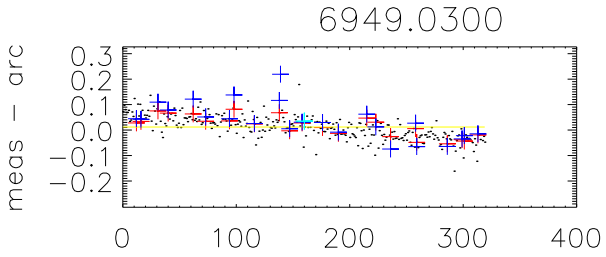

6300.3040
off: −0.04
sig: 0.003
6363.7760
off: −0.02
sig: 0.005
6553.6100
off: −0.06
sig: 0.014
6923.2100
off: −0.02
sig: 0.008
6949.0300
off: 0.03
sig: 0.008
7571.7500
off: 0.01
sig: 0.006
7794.1200
off: −0.09
sig: 0.005
7821.5100
off: −0.03
sig: 0.004
8399.1600
off: −0.02
sig: 0.003
8430.1700
off: −0.02
sig: 0.003
8885.8300
off: 0.01
sig: 0.003
8919.6100
off: −0.00
sig: 0.004

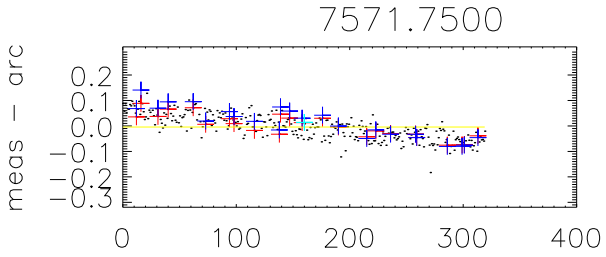

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

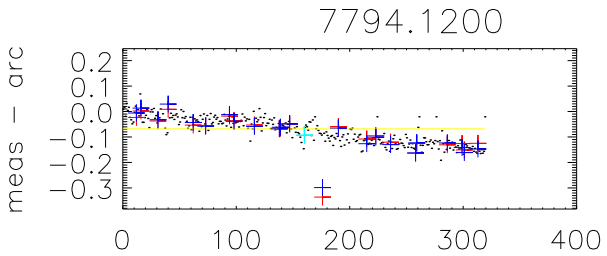

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

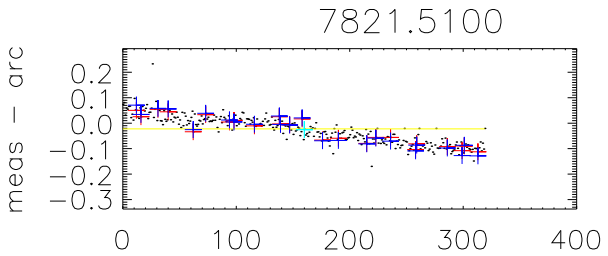

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

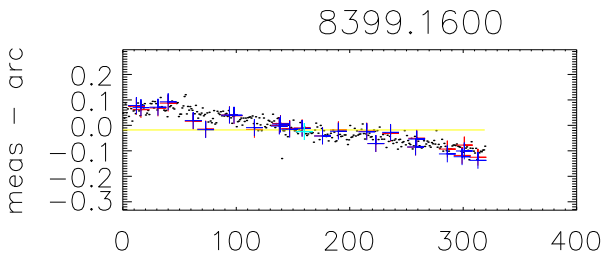

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

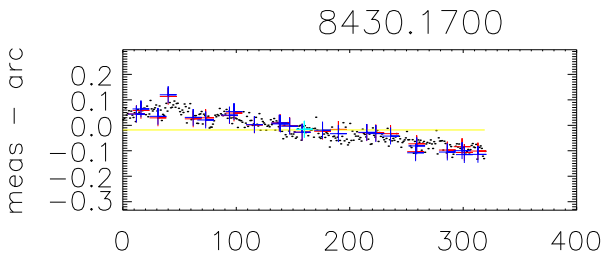

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

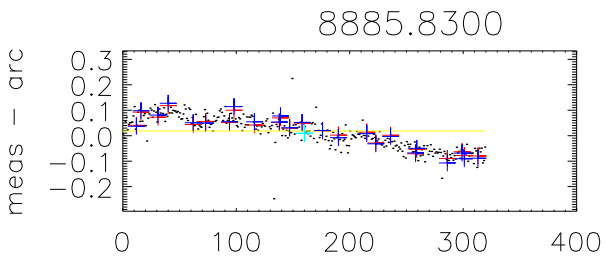

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

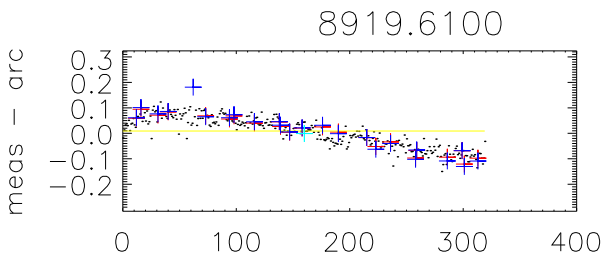

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

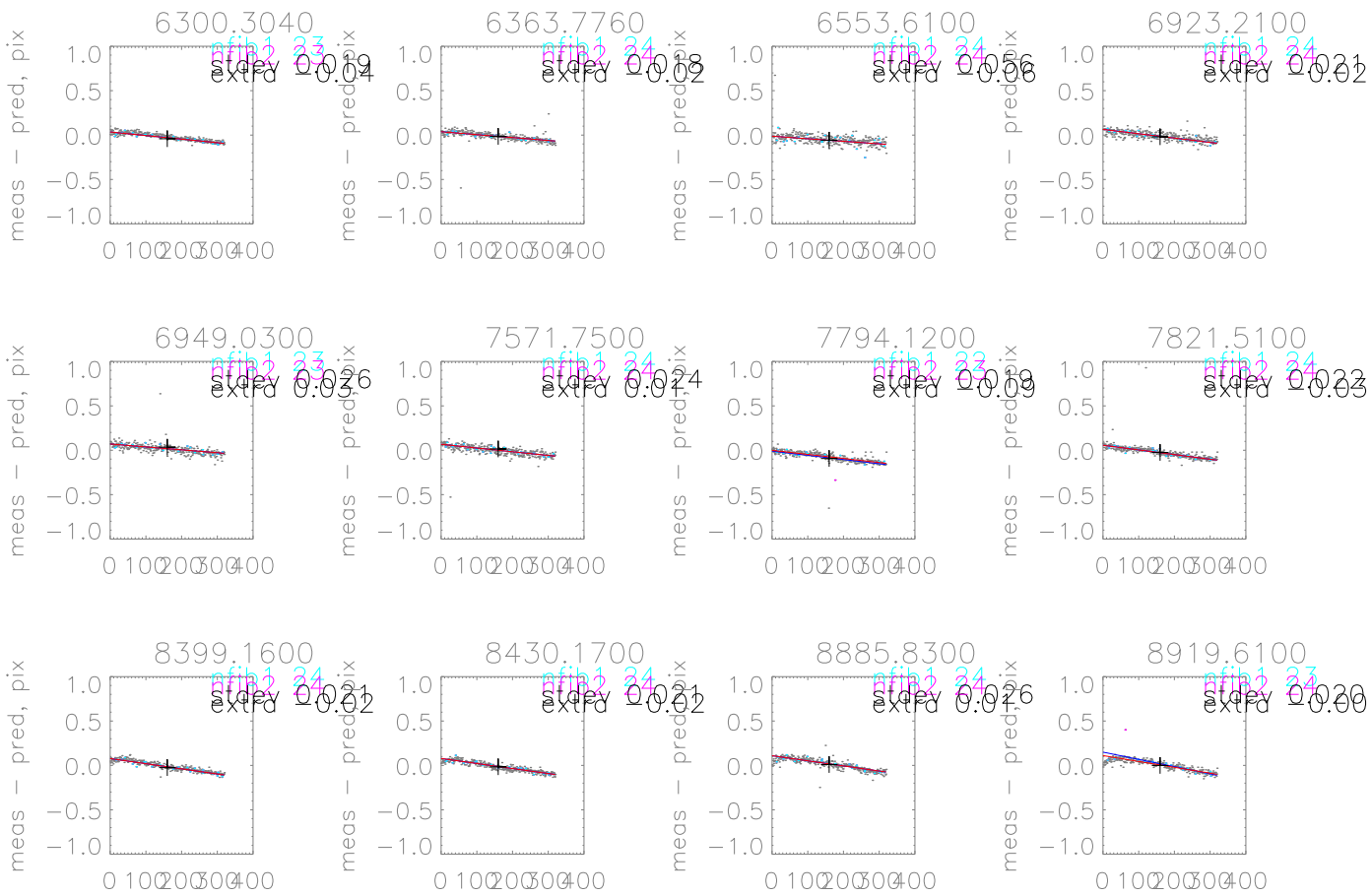

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

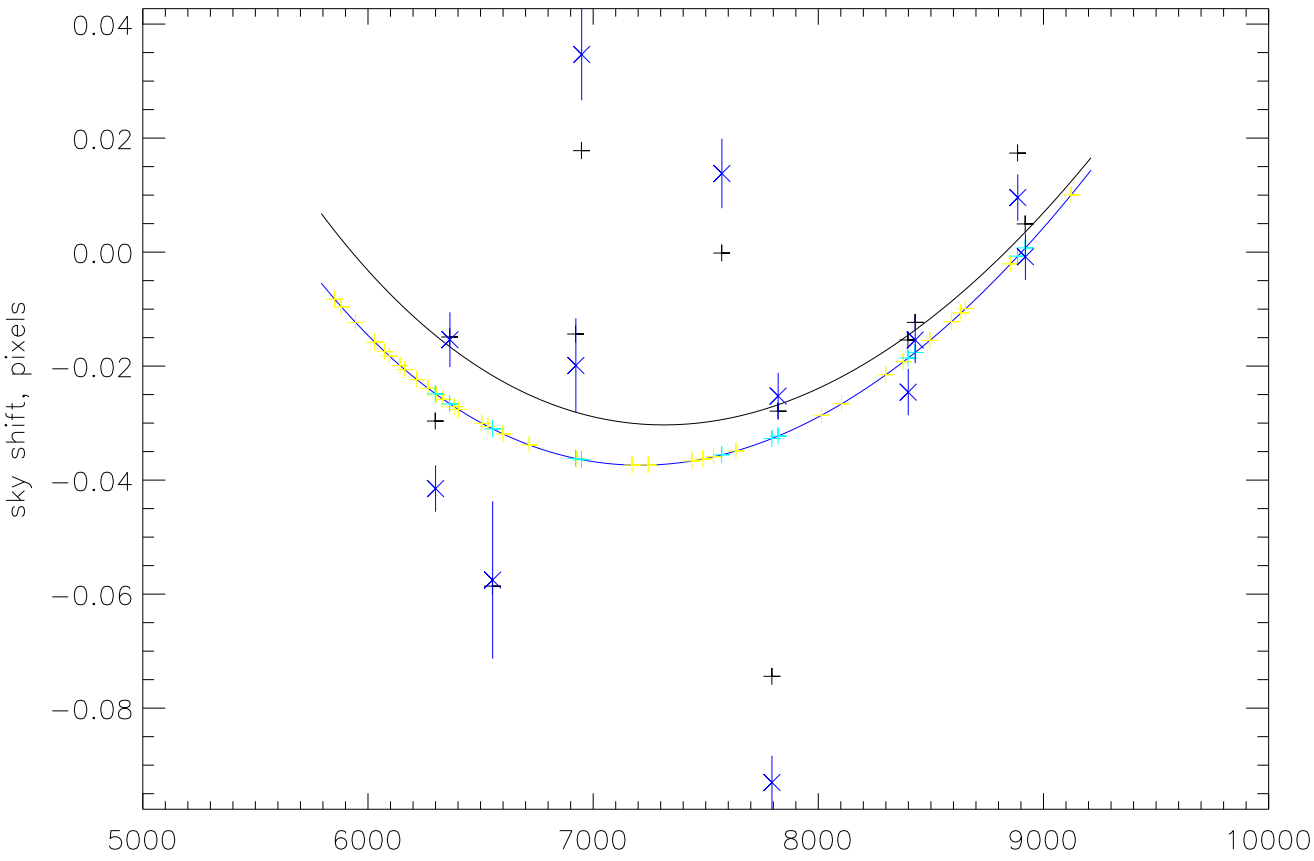

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

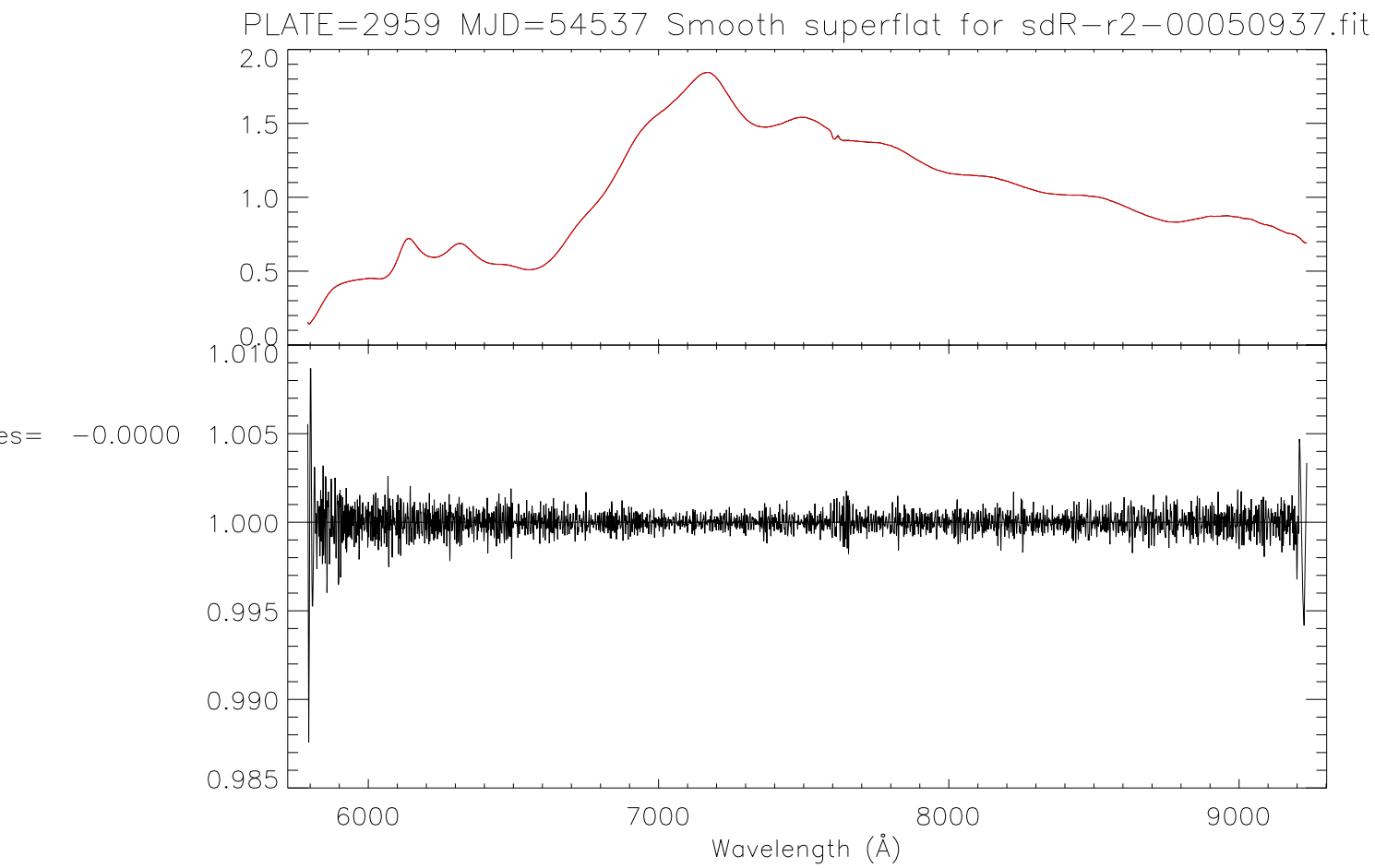

8430.1700
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

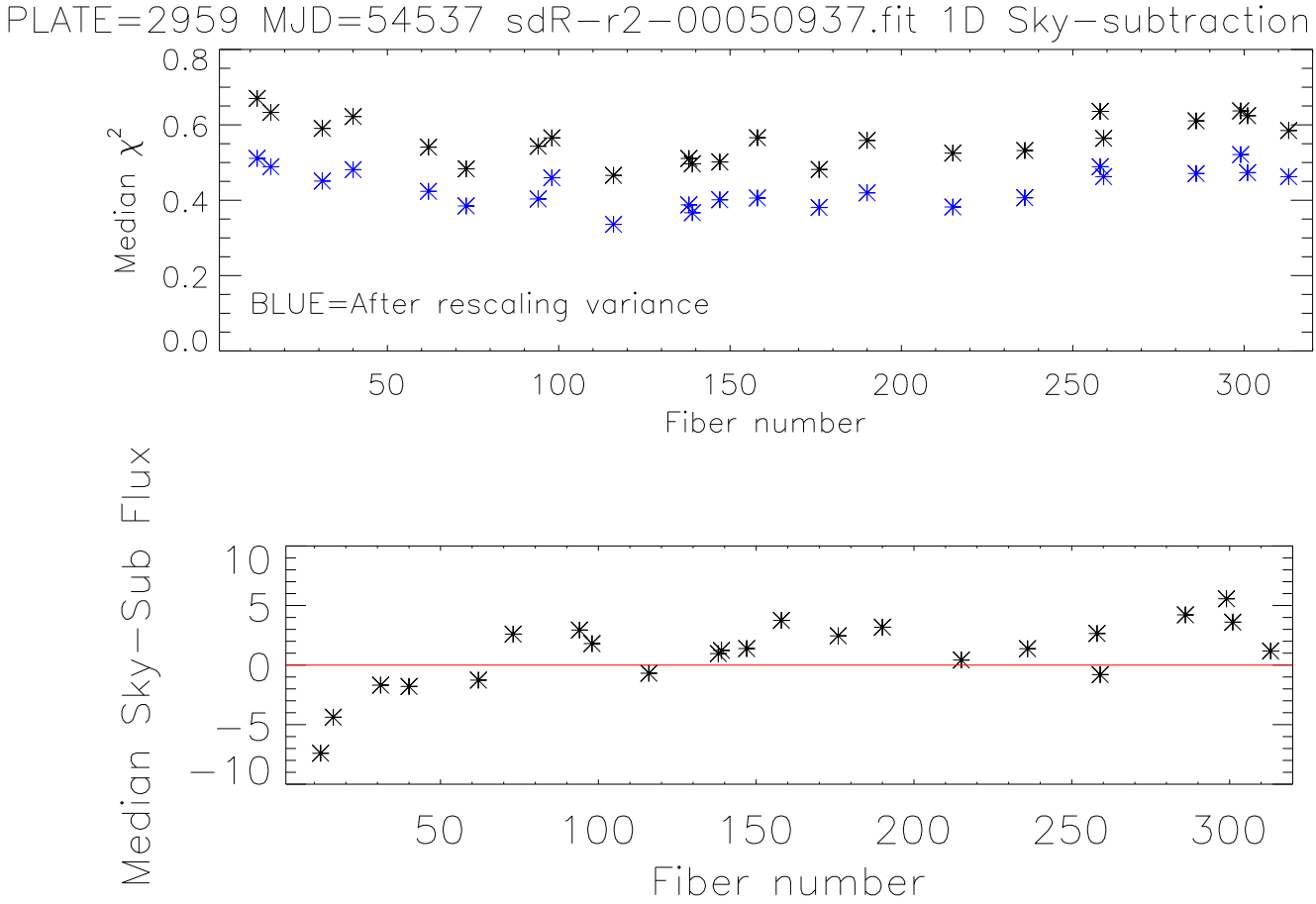

8885.8300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

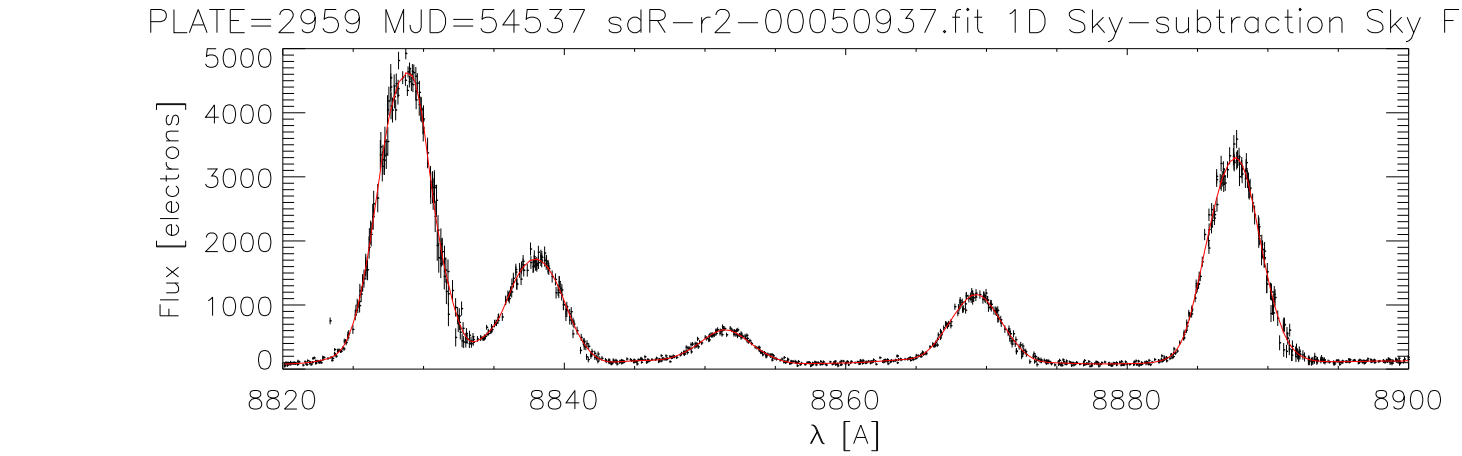

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

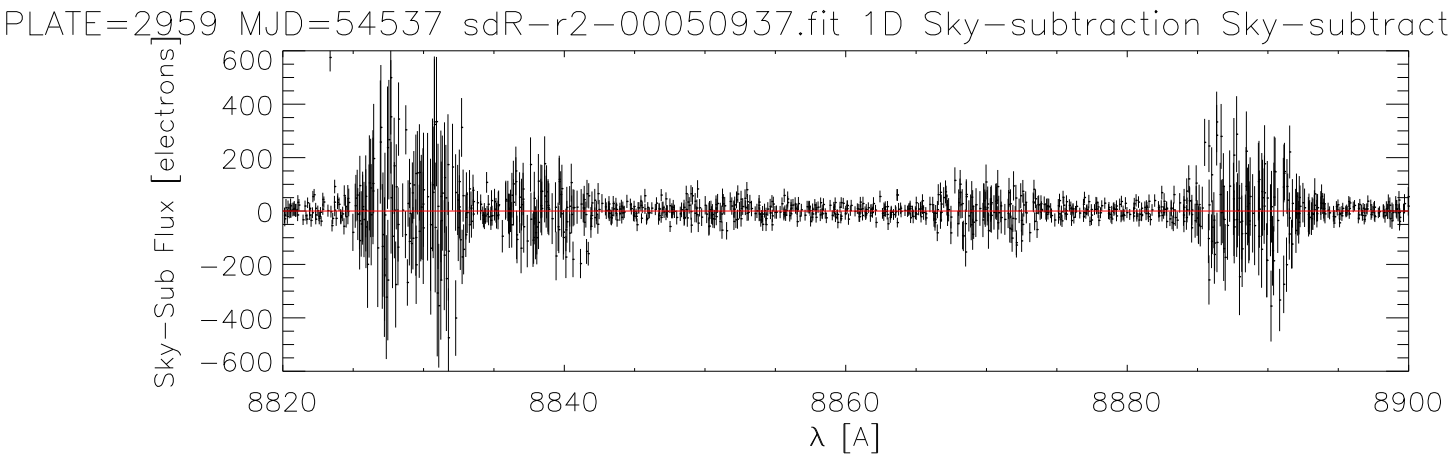

6300.3040
mfib1 23
mfib2 23
stdev 0.019
extra −0.04
6363.7760
mfib1 24
mfib2 24
stdev 0.018
extra −0.02
6553.6100
mfib1 24
mfib2 24
stdev 0.016
extra −0.06
6923.2100
mfib1 24
mfib2 24
stdev 0.021
extra −0.02
6949.0300
mfib1 23
mfib2 23
stdev 0.026
extra 0.03
7571.7500
mfib1 24
mfib2 24
stdev 0.024
extra 0.01
7794.1200
mfib1 23
mfib2 23
stdev 0.019
extra −0.09
7821.5100
mfib1 24
mfib2 24
stdev 0.022
extra −0.03
8399.1600
mfib1 24
mfib2 24
stdev 0.021
extra −0.02
8430.1700
mfib1 24
mfib2 24
stdev 0.021
extra −0.02
8885.8300
mfib1 24
mfib2 24
stdev 0.026
extra 0.01
8919.6100
mfib1 23
mfib2 24
stdev 0.020
extra −0.00
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

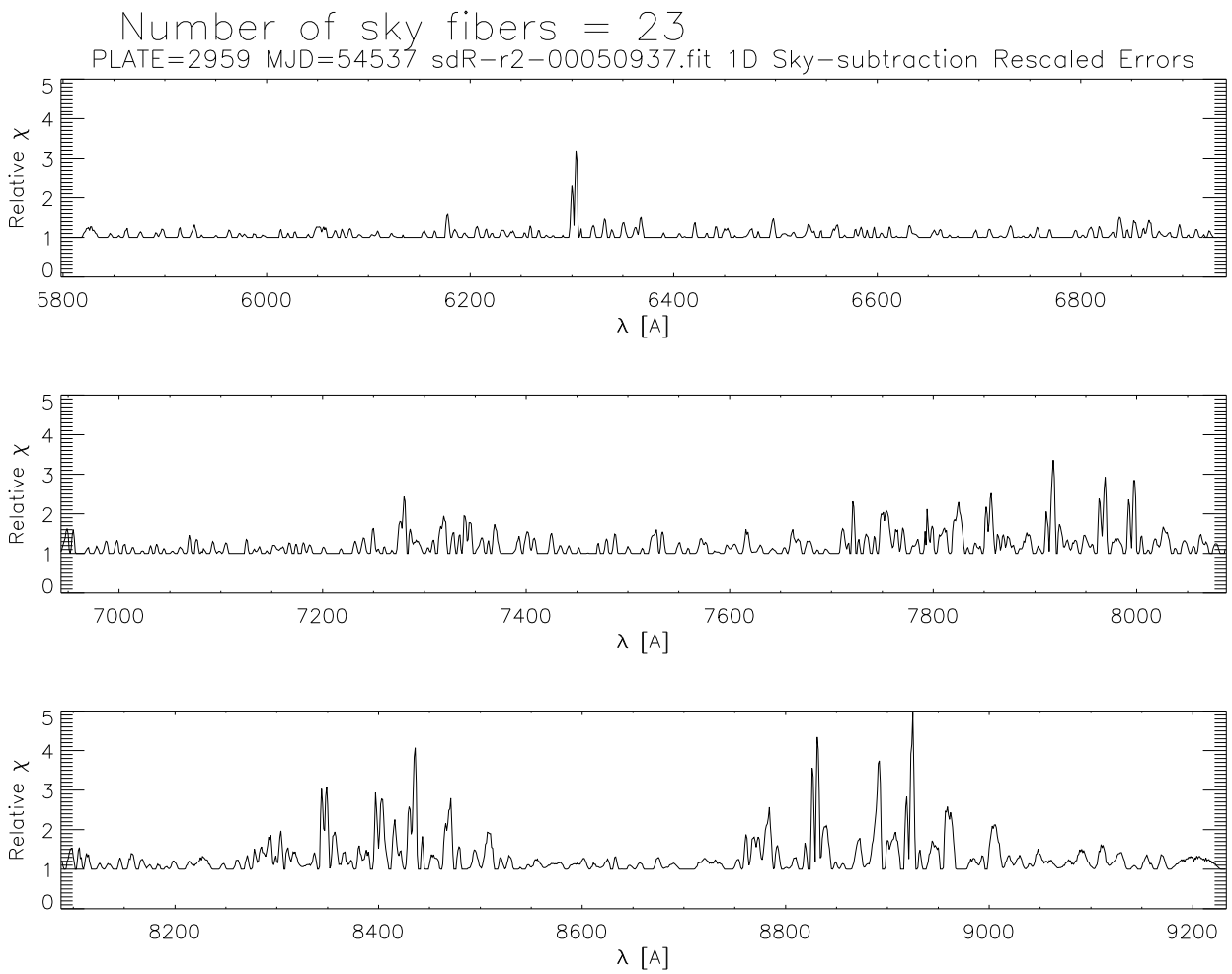

0.04
0.02
0.00
−0.02
−0.04
−0.06
−0.08
sky shift, pixels
5000
6000
7000
8000
9000
10000

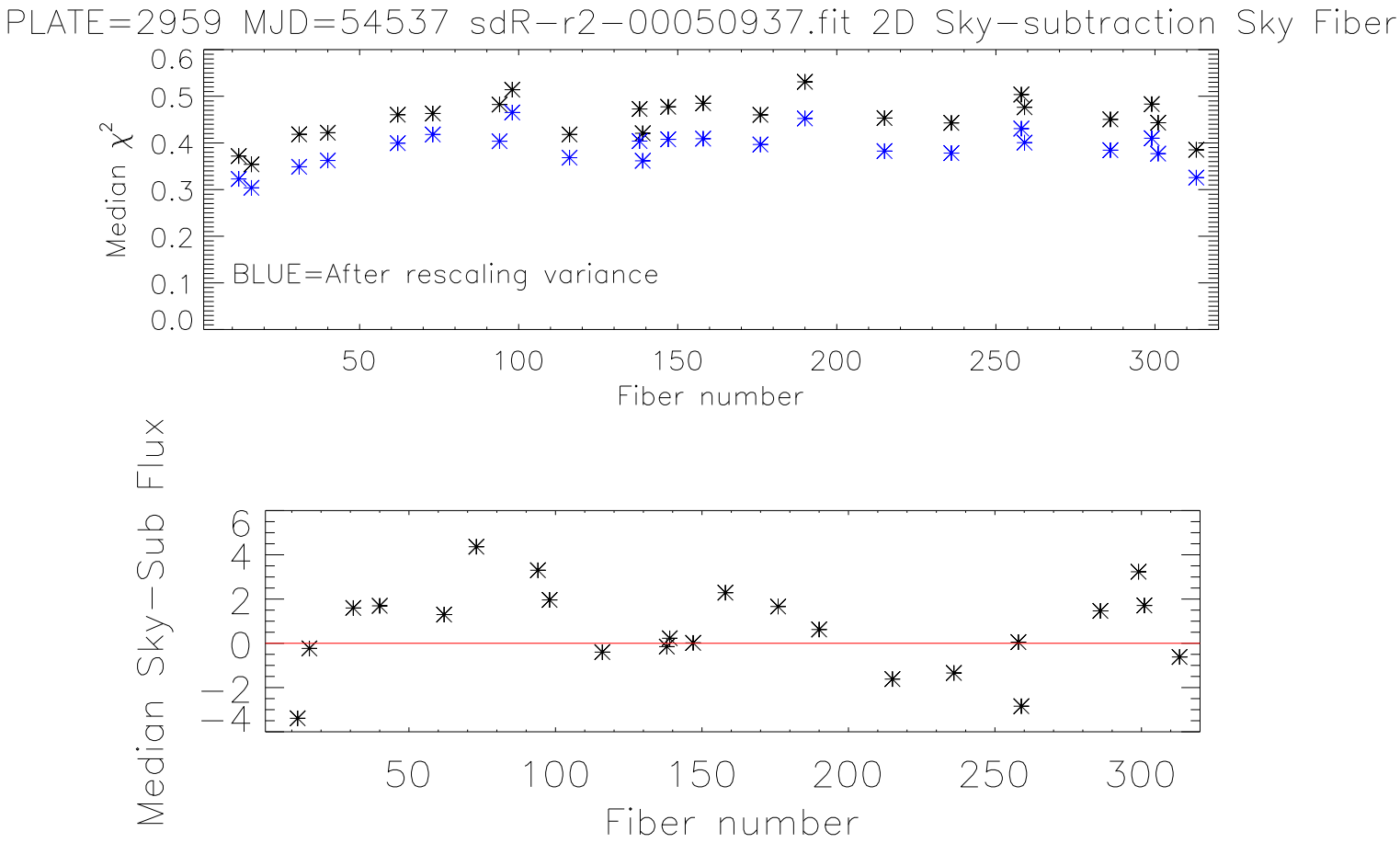

PLATE=2959 MJD=54537 Smooth superflat for sdR-r2-00050937.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

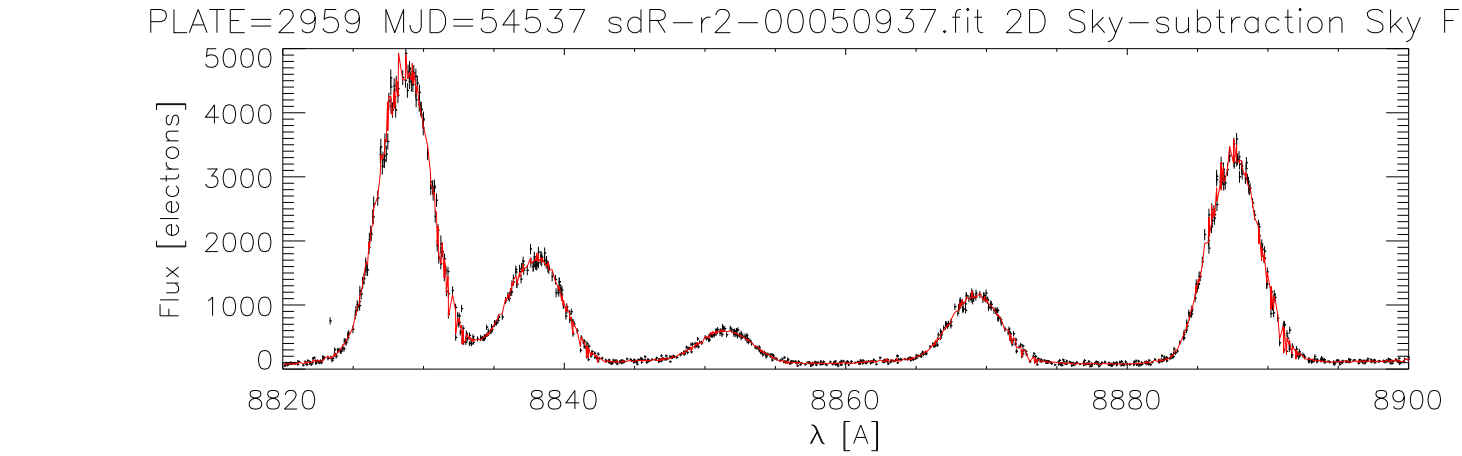

PLATE=2959 MJD=54537 sdR-r2-00050937.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

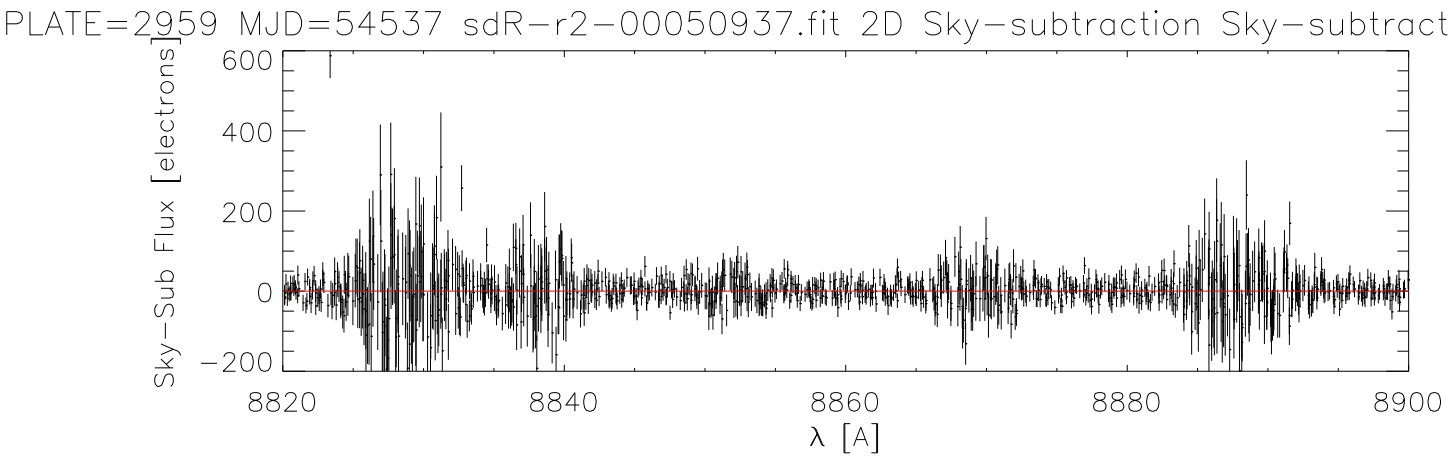

PLATE=2959 MJD=54537 sdR-r2-00050937.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

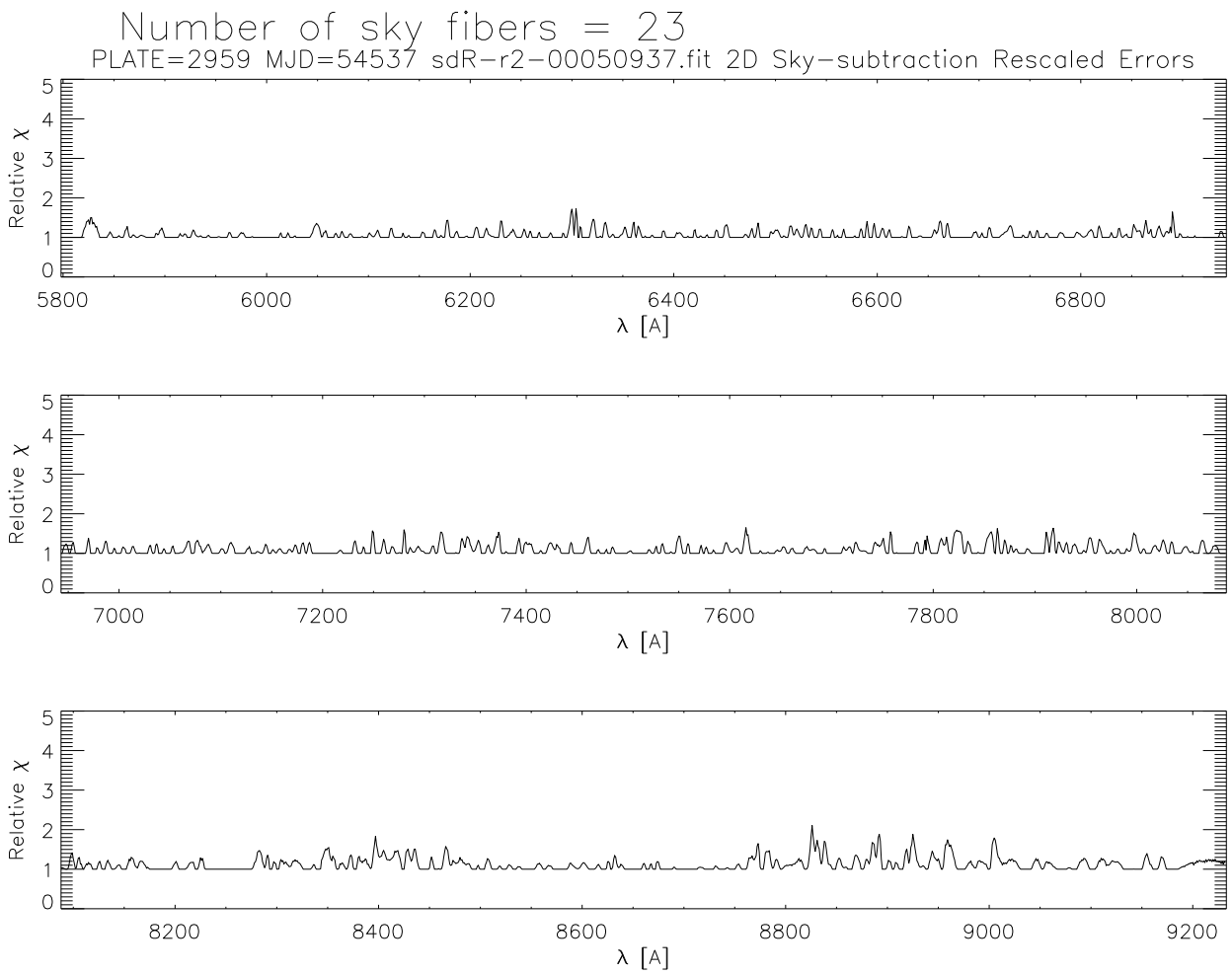

PLATE=2959 MJD=54537 sdR-r2-00050937.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
-600
8820
8840
8860
8880
8900
λ [A]

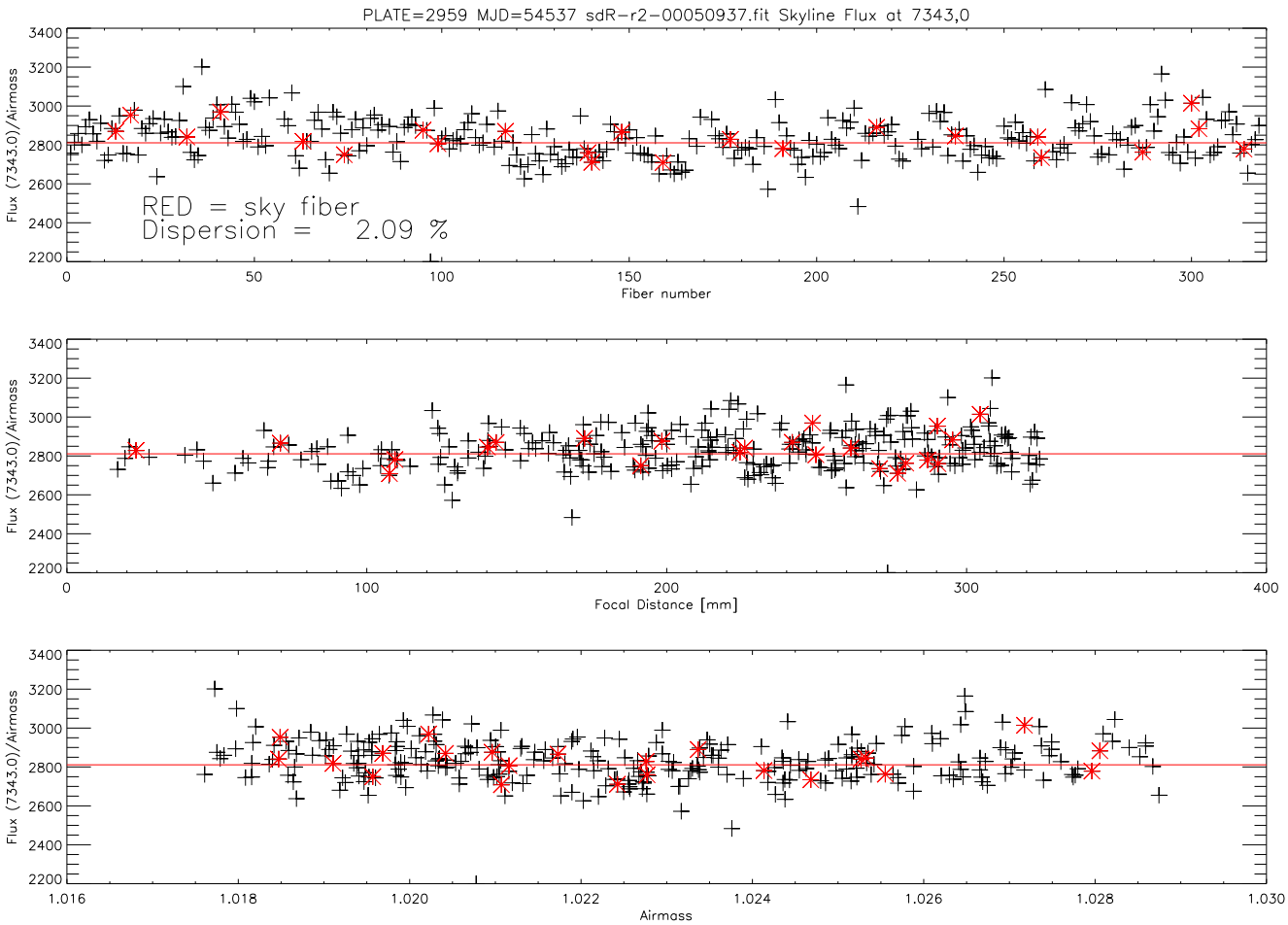

Number of sky fibers = 23
PLATE=2959 MJD=54537 sdR-r2-00050937.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

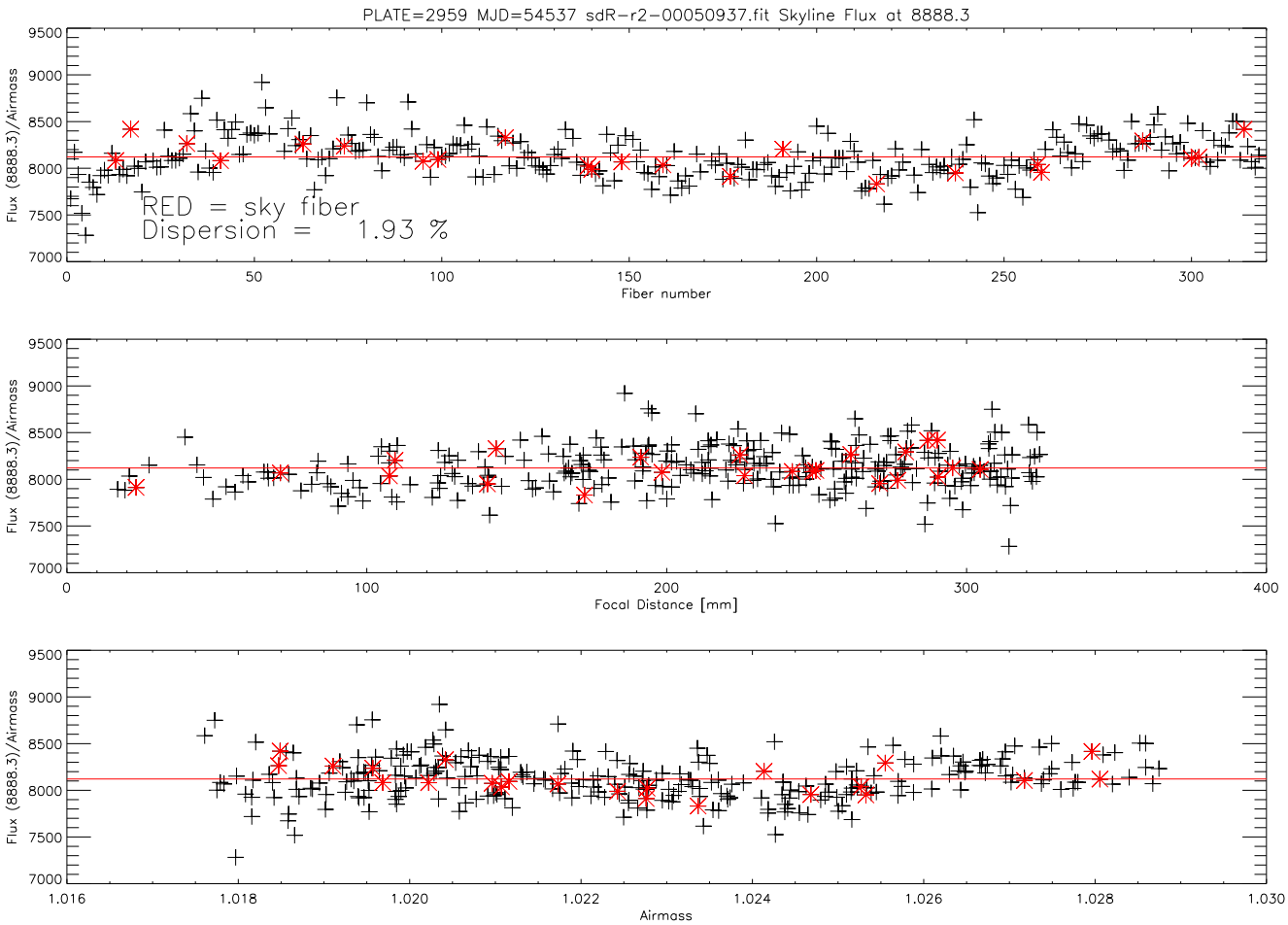

PLATE=2959 MJD=54537 sdR-r2-00050937.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

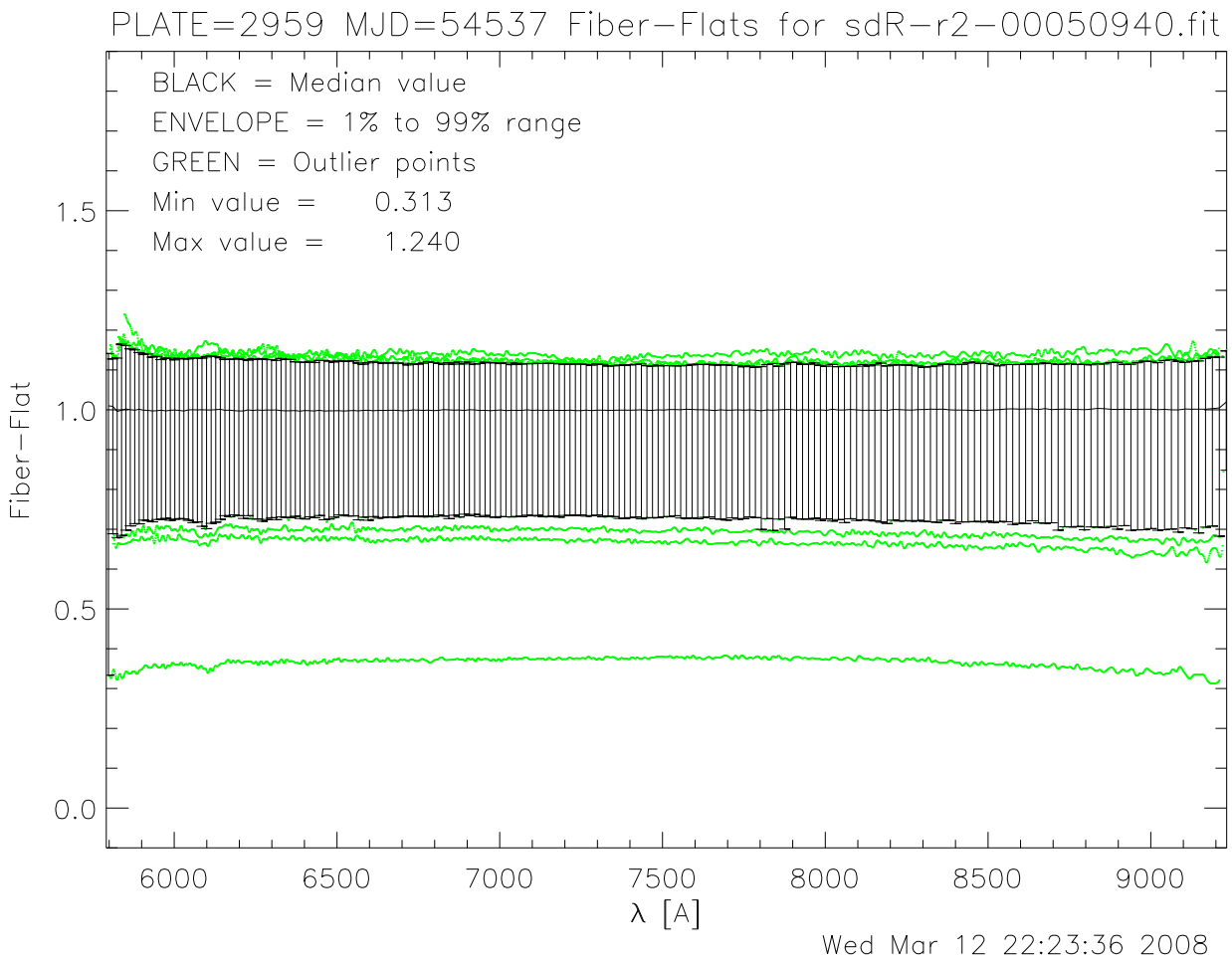

PLATE=2959 MJD=54537 sdR-r2-00050937.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

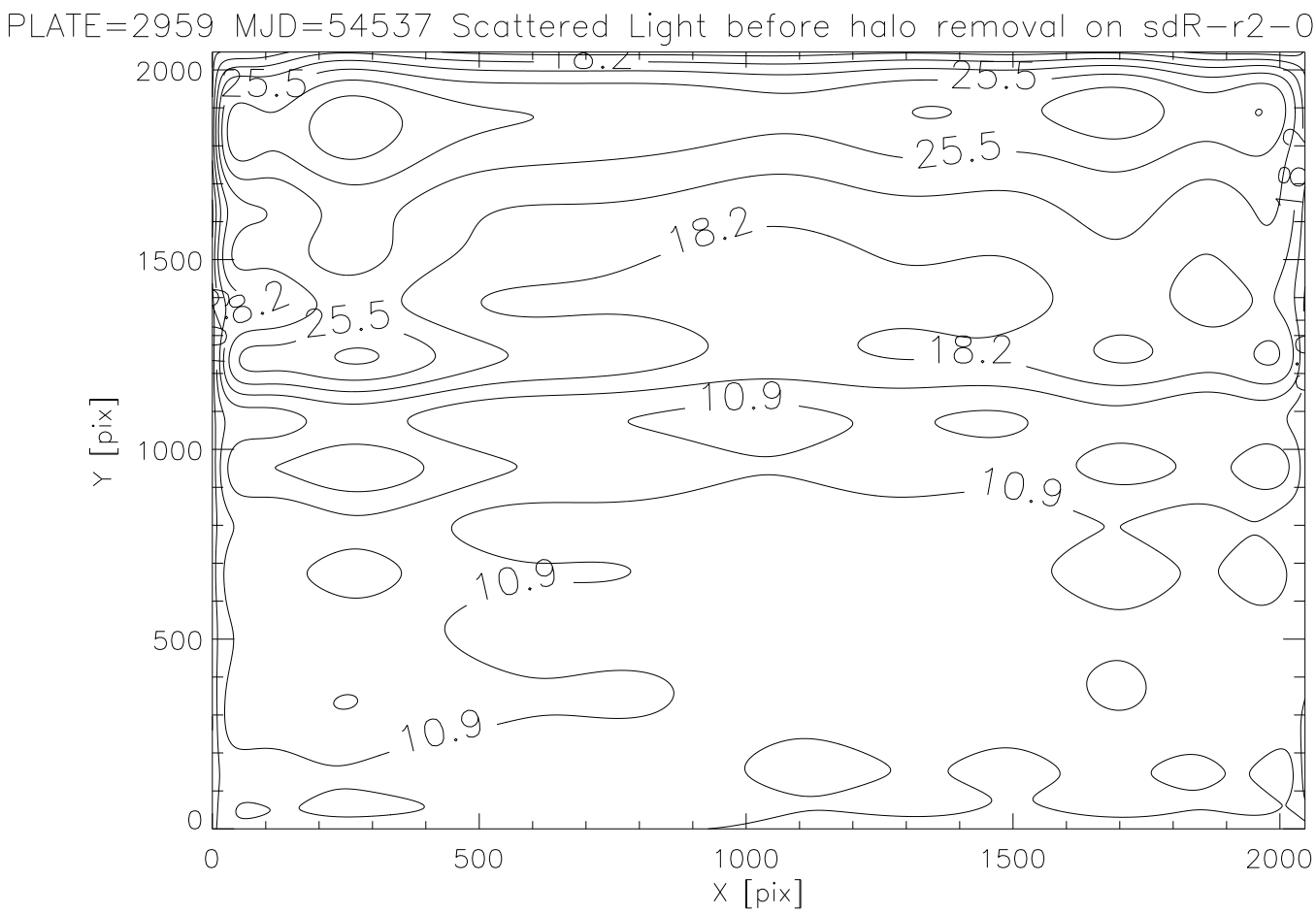

PLATE=2959 MJD=54537 sdR-r2-00050937.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

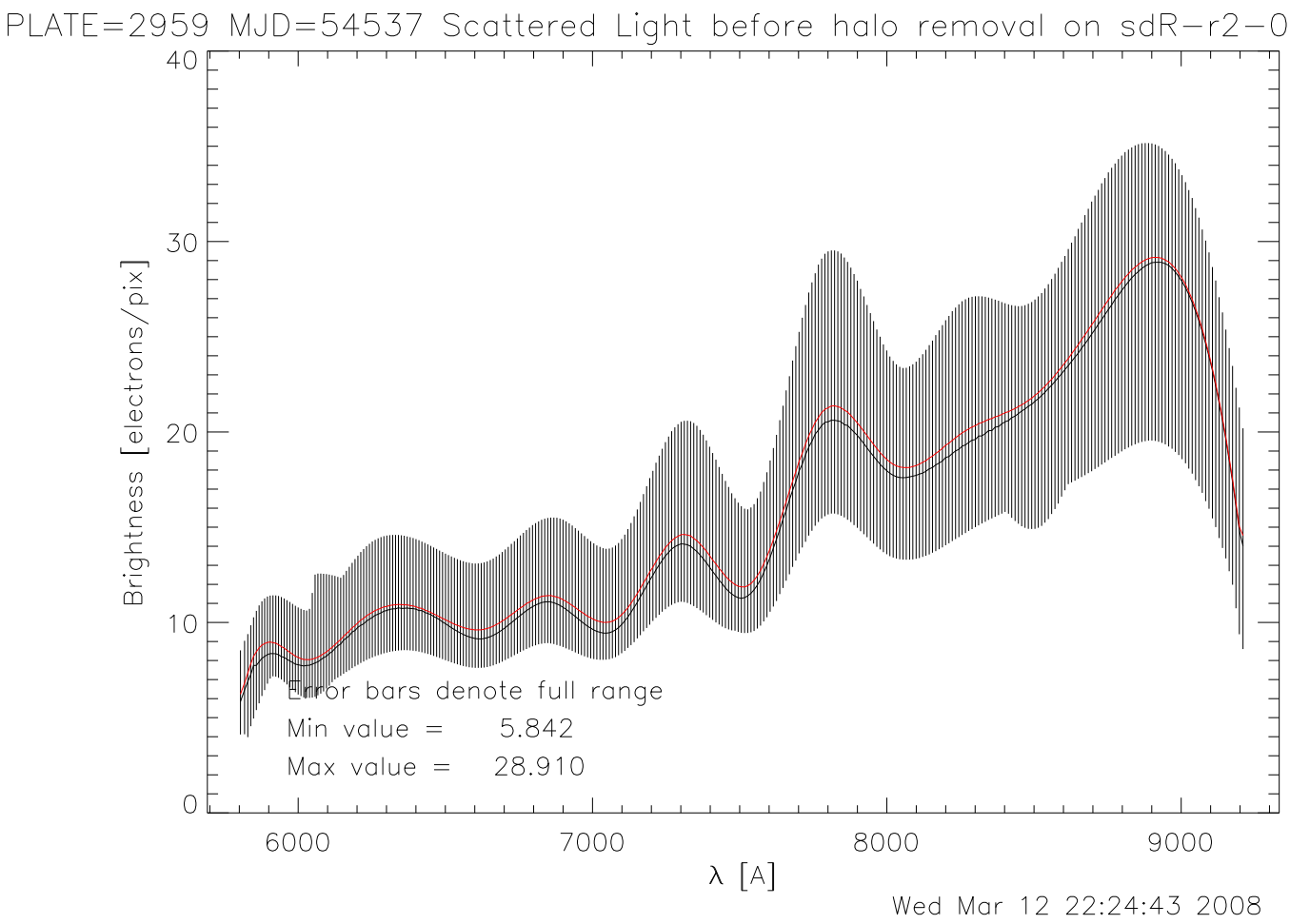

Number of sky fibers = 23
PLATE=2959 MJD=54537 sdR-r2-00050937.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

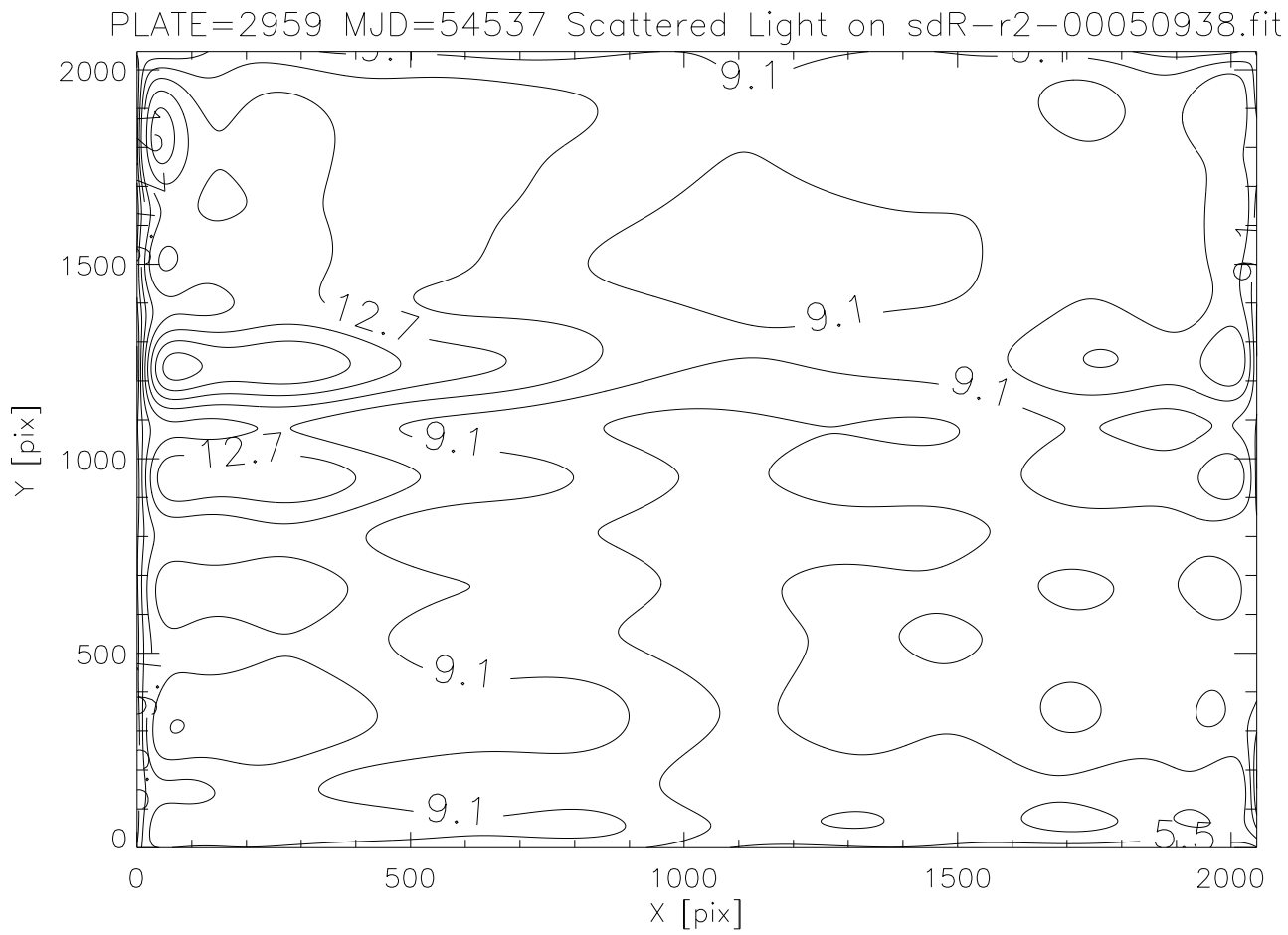

PLATE=2959 MJD=54537 sdR-r2-00050937.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.09 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

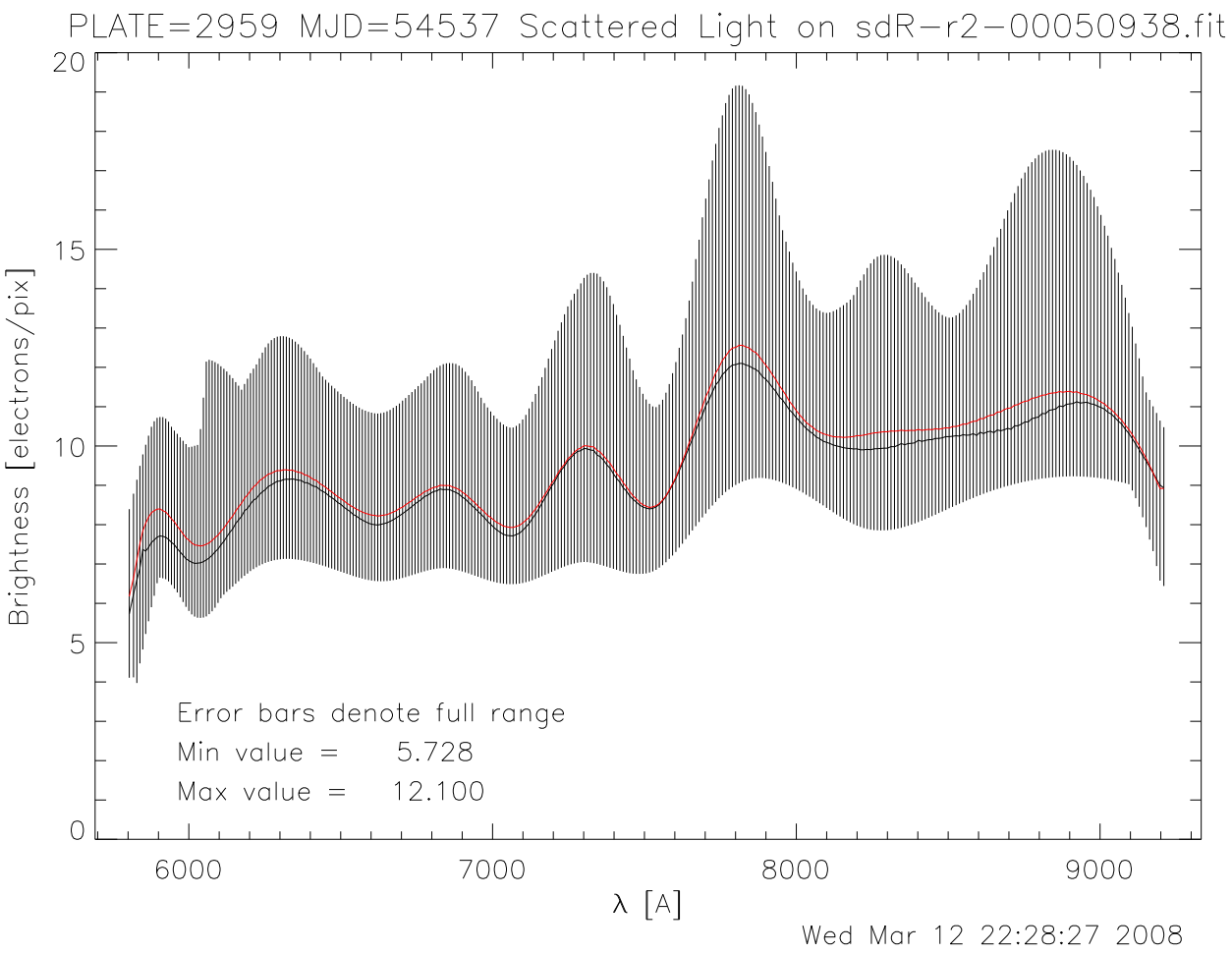

PLATE=2959 MJD=54537 sdR-r2-00050937.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.93 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

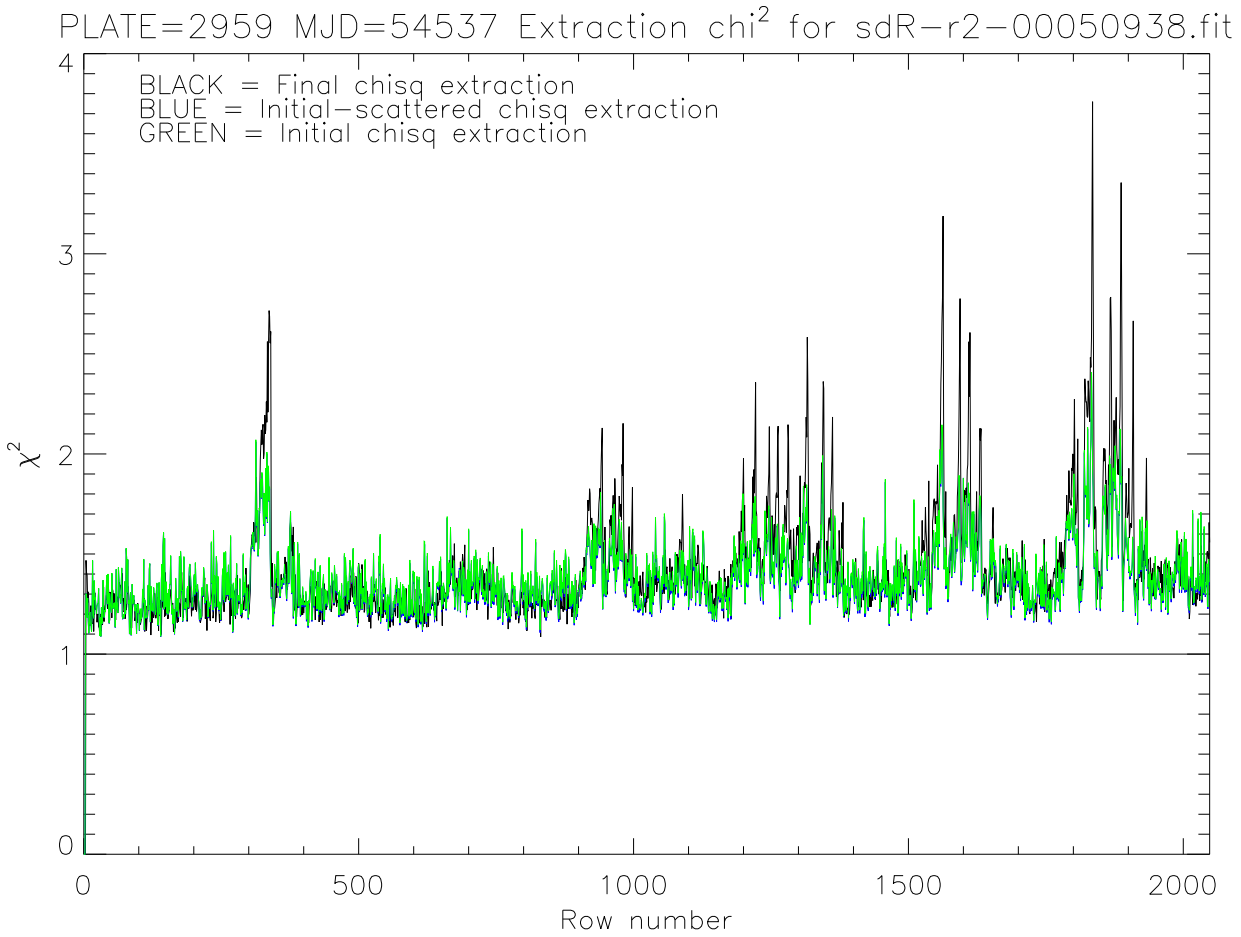

PLATE=2959 MJD=54537 Fiber−Flats for sdR−r2−00050940.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.313
Max value = 1.240
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 12 22:23:36 2008

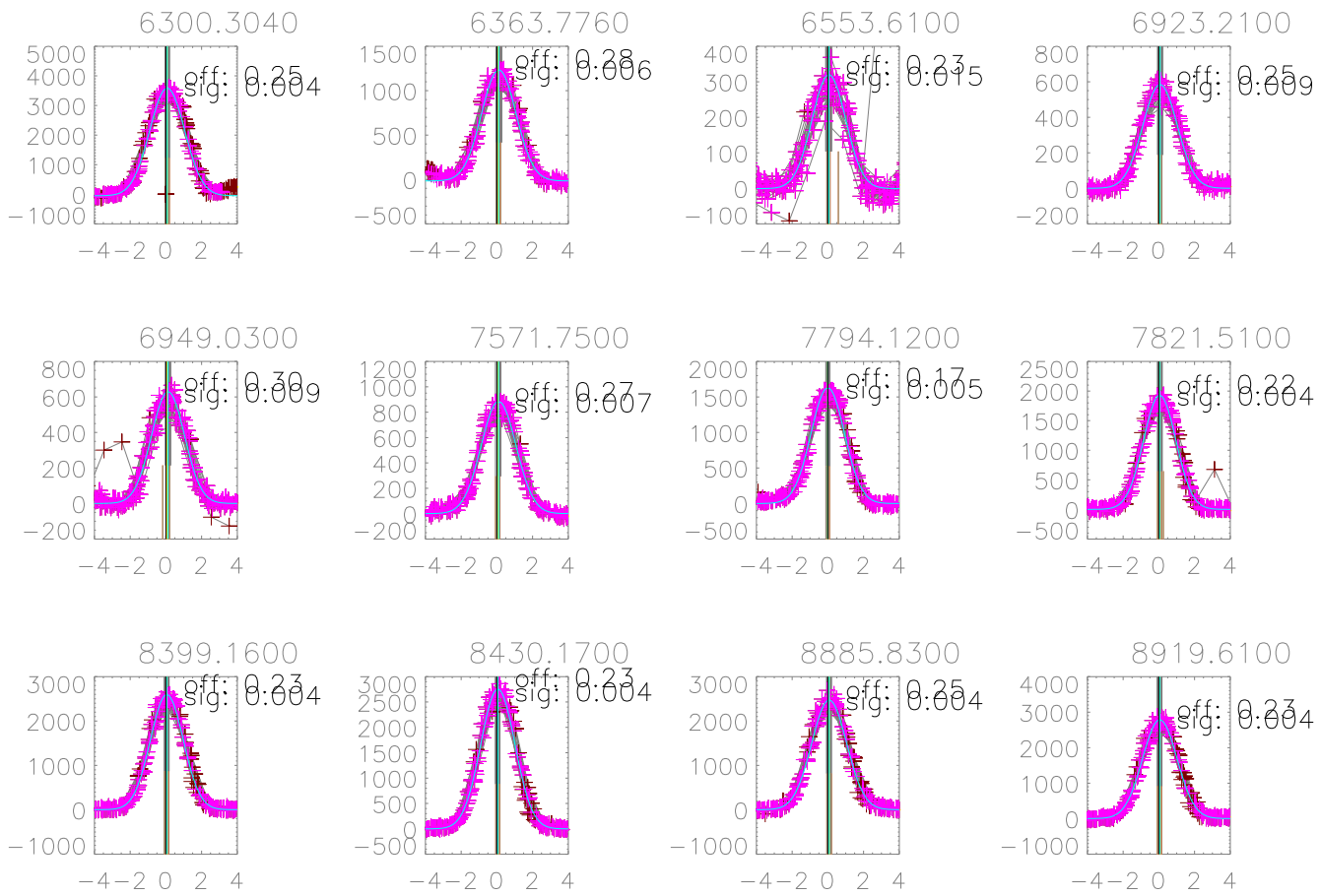

PLATE=2959 MJD=54537 Scattered Light before halo removal on sdR-r2-00050938.fi
25.5
18.2
10.9
Y [pix]
X [pix]
0
500
1000
1500
2000

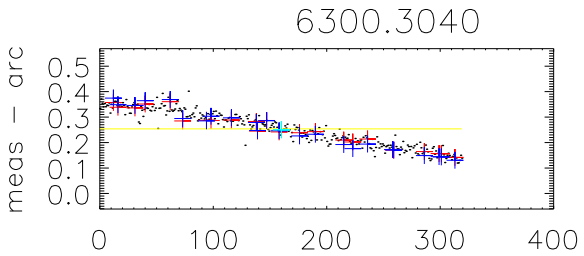

PLATE=2959 MJD=54537 Scattered Light before halo removal on sdR-r2-00050938.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.842
Max value = 28.910
Wed Mar 12 22:24:43 2008

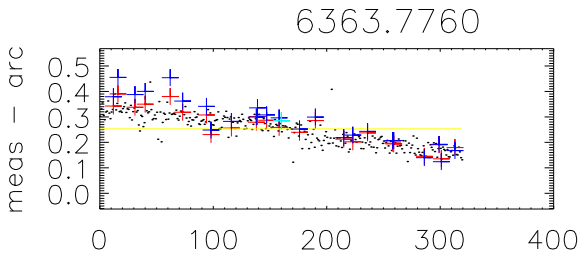

PLATE=2959 MJD=54537 Scattered Light on sdR-r2-00050938.fit
9.1
12.7
9.1
9.1
12.7
9.1
9.1
9.1
5.5
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

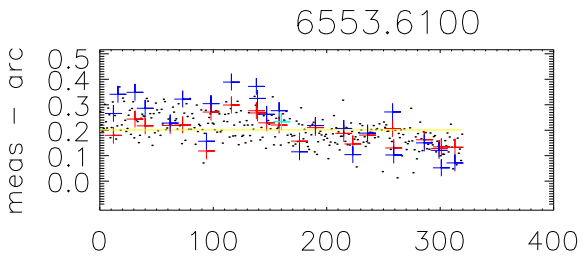

PLATE=2959 MJD=54537 Scattered Light on sdR-r2-00050938.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.728
Max value = 12.100
Wed Mar 12 22:28:27 2008

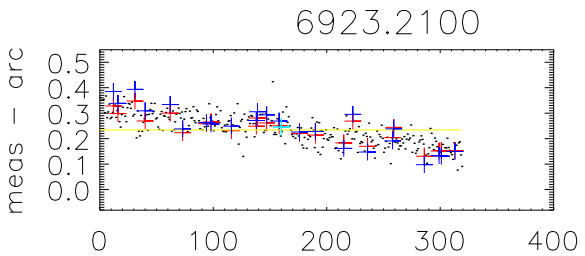

PLATE=2959 MJD=54537 Extraction chi^2 for sdR−r2−00050938.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

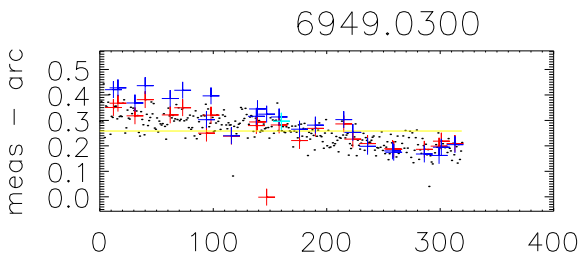

6300.3040
off: 0.25
sig: 0.004
6363.7760
off: 0.28
sig: 0.006
6553.6100
off: 0.23
sig: 0.015
6923.2100
off: 0.25
sig: 0.009
6949.0300
off: 0.30
sig: 0.009
7571.7500
off: 0.27
sig: 0.007
7794.1200
off: 0.17
sig: 0.005
7821.5100
off: 0.22
sig: 0.004
8399.1600
off: 0.23
sig: 0.004
8430.1700
off: 0.23
sig: 0.004
8885.8300
off: 0.25
sig: 0.004
8919.6100
off: 0.23
sig: 0.004

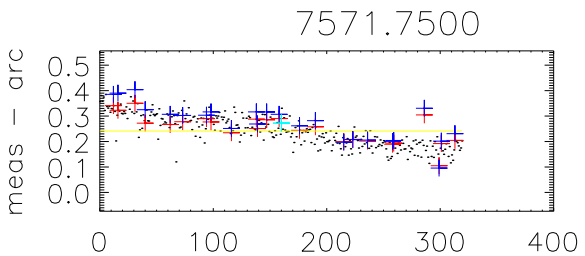

6300.3040
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

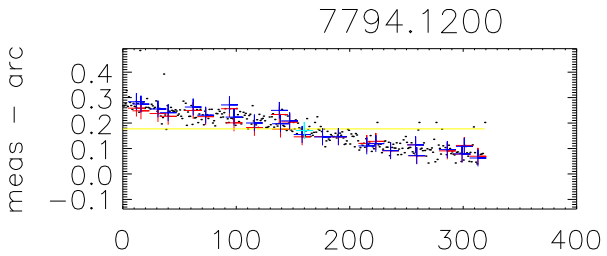

6363.7760
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

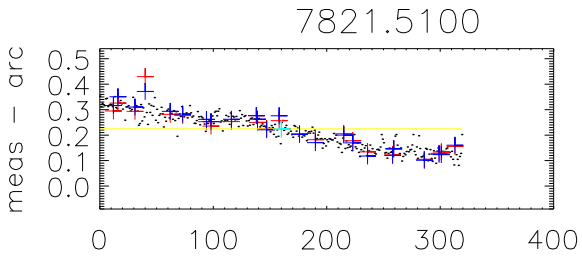

6553.6100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

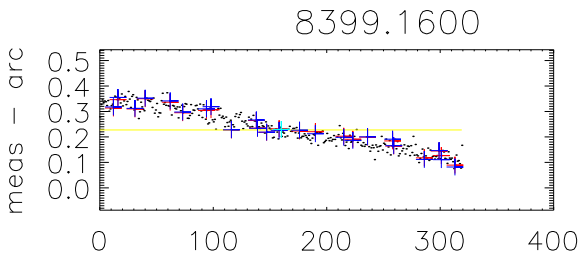

6923.2100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

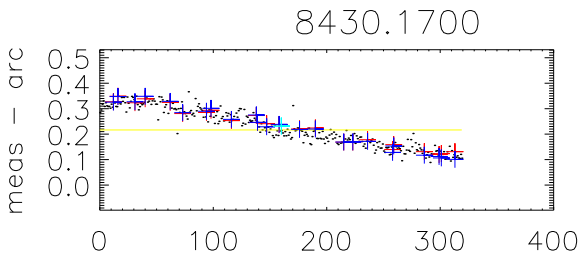

6949.0300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

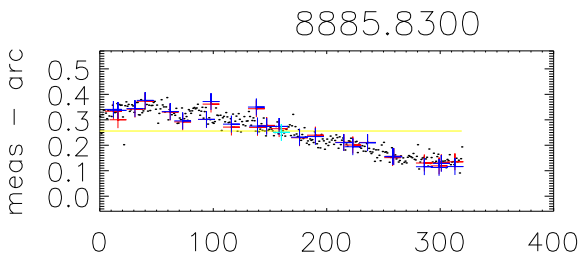

7571.7500
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

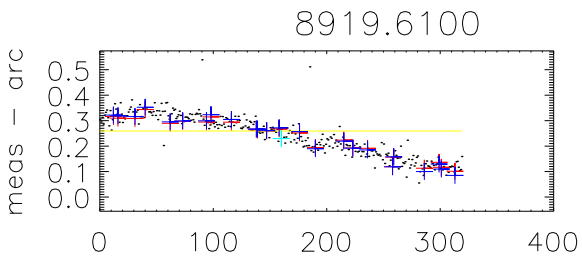

7794.1200
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

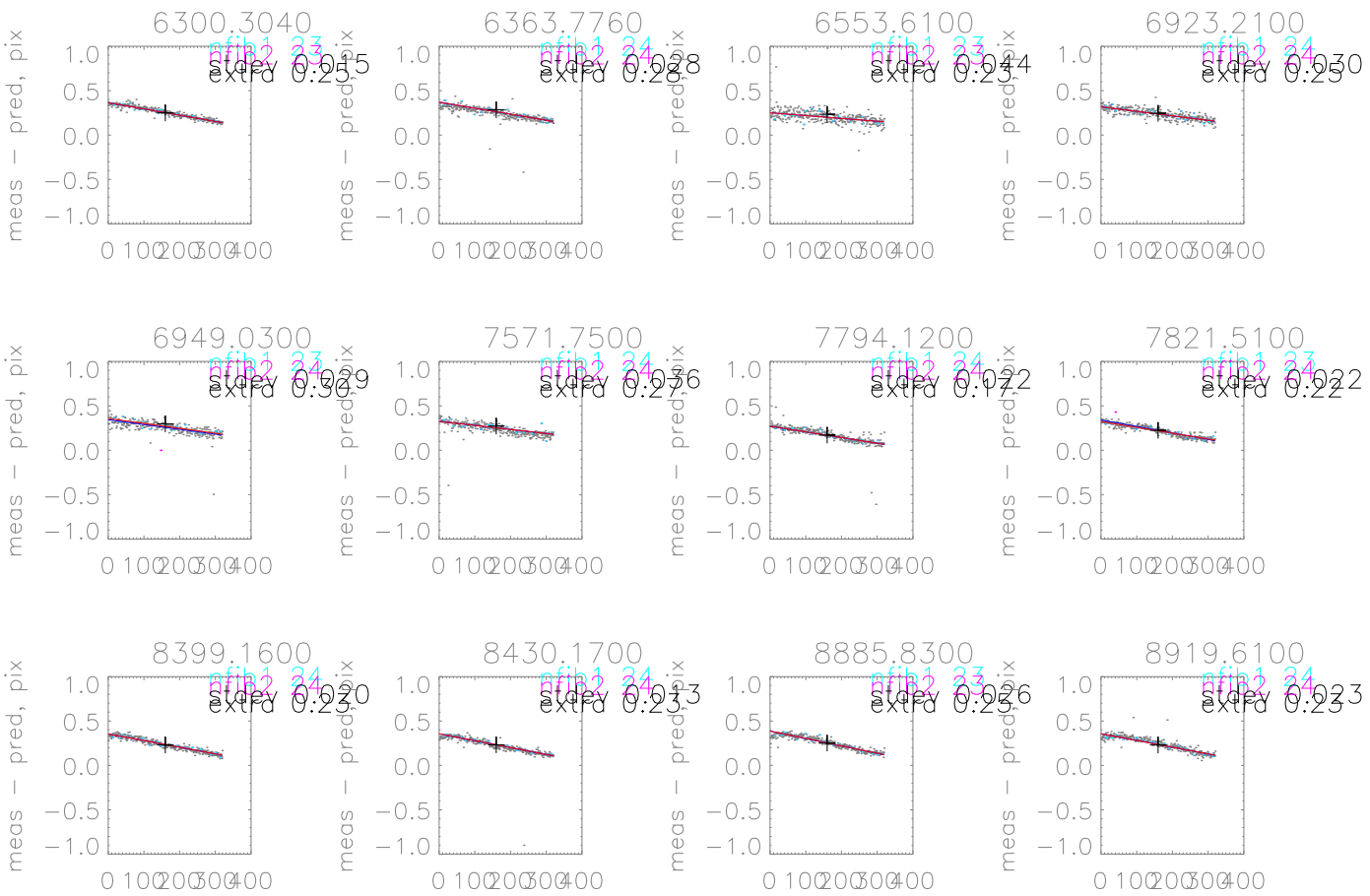

7821.5100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

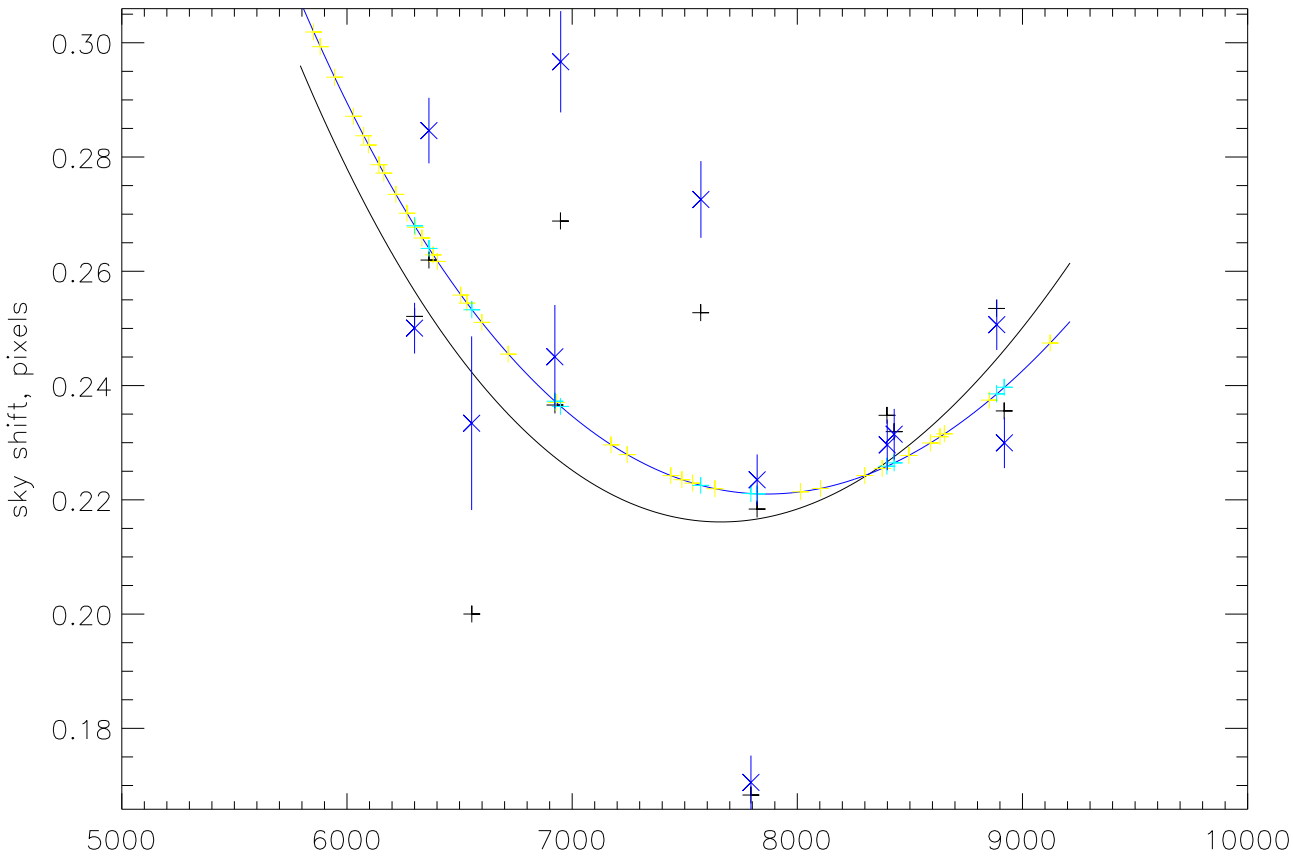

8399.1600
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

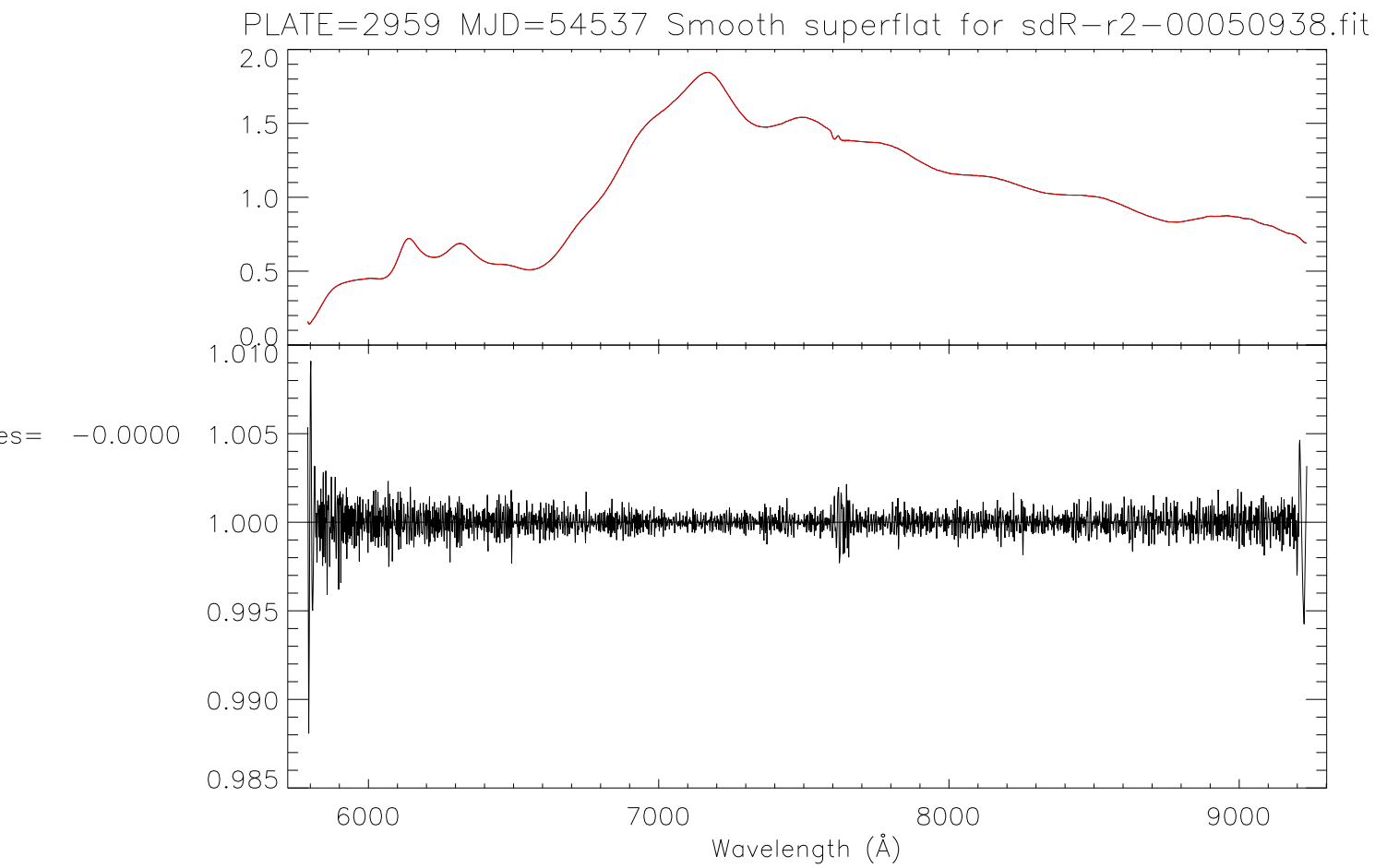

8430.1700
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400


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

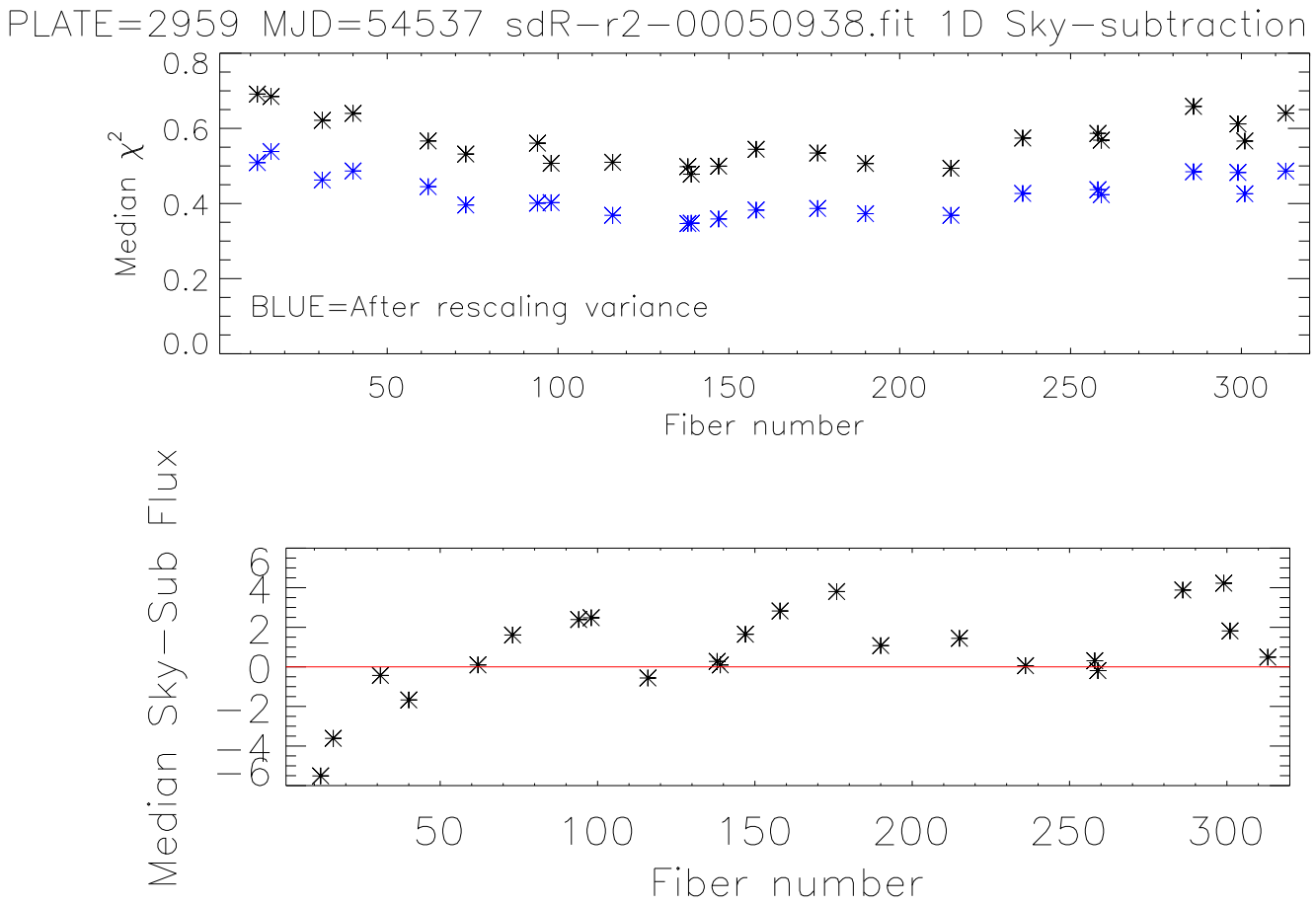

8919.6100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400


6300.3040
mfib1 23
mfib2 24
stdev 0.015
extra 0.25
6363.7760
mfib1 24
mfib2 24
stdev 0.028
extra 0.28
6553.6100
mfib1 23
mfib2 23
stdev 0.044
extra 0.23
6923.2100
mfib1 24
mfib2 24
stdev 0.030
extra 0.25
6949.0300
mfib1 23
mfib2 24
stdev 0.029
extra 0.30
7571.7500
mfib1 24
mfib2 24
stdev 0.036
extra 0.27
7794.1200
mfib1 24
mfib2 24
stdev 0.022
extra 0.22
7821.5100
mfib1 23
mfib2 24
stdev 0.022
extra 0.22
8399.1600
mfib1 24
mfib2 24
stdev 0.020
extra 0.23
8430.1700
mfib1 24
mfib2 24
stdev 0.013
extra 0.23
8885.8300
mfib1 23
mfib2 23
stdev 0.026
extra 0.23
8919.6100
mfib1 24
mfib2 24
stdev 0.023
extra 0.23
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

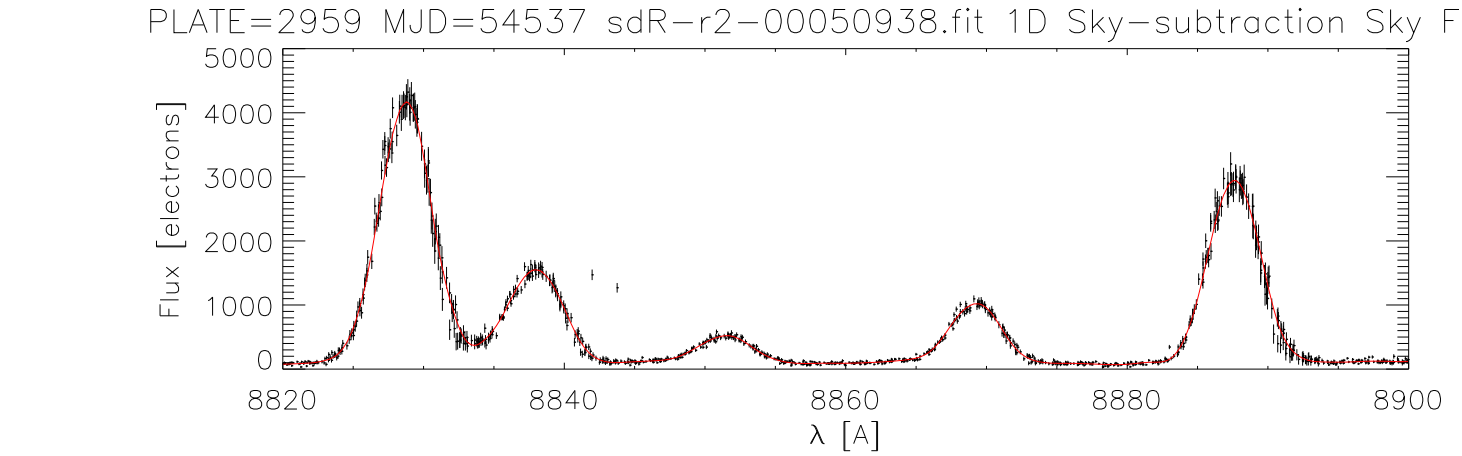

sky shift, pixels
0.30
0.28
0.26
0.24
0.22
0.20
0.18
5000
6000
7000
8000
9000
10000

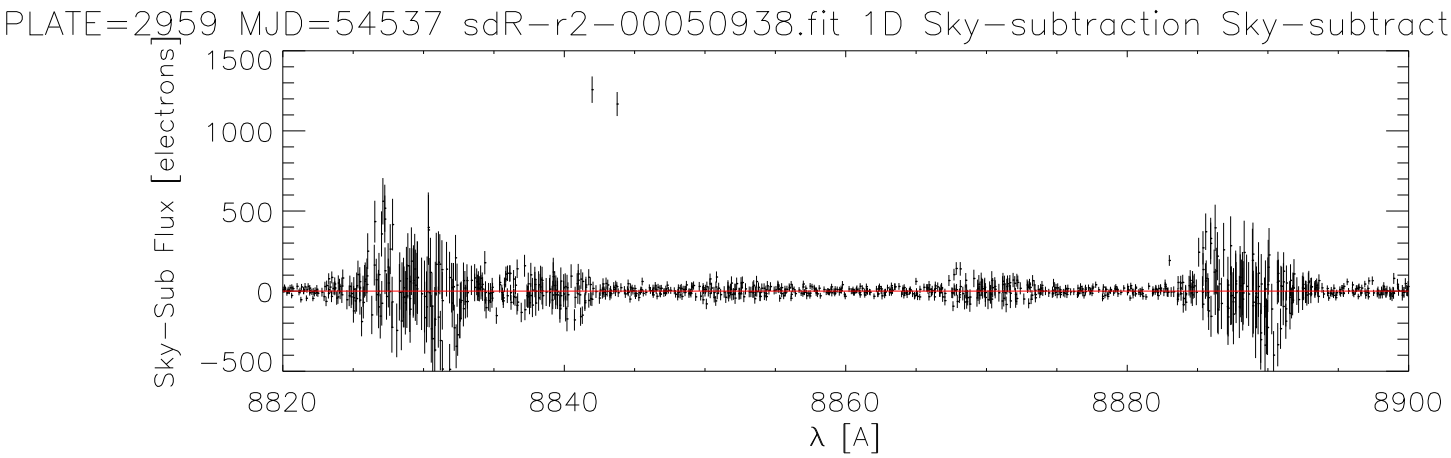

PLATE=2959 MJD=54537 Smooth superflat for sdR-r2-00050938.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
6000
7000
8000
9000
Wavelength (Å)

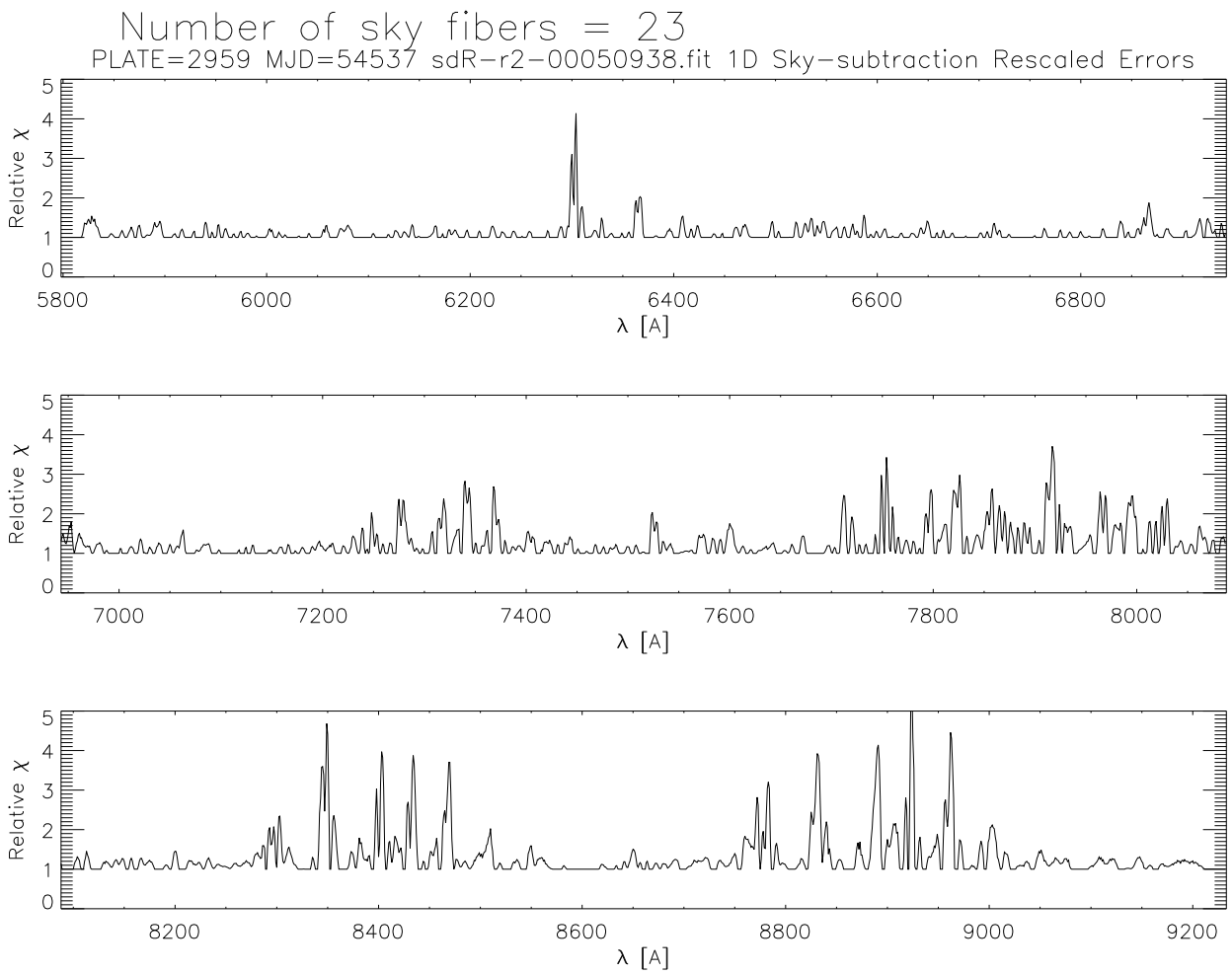
es= −0.0000

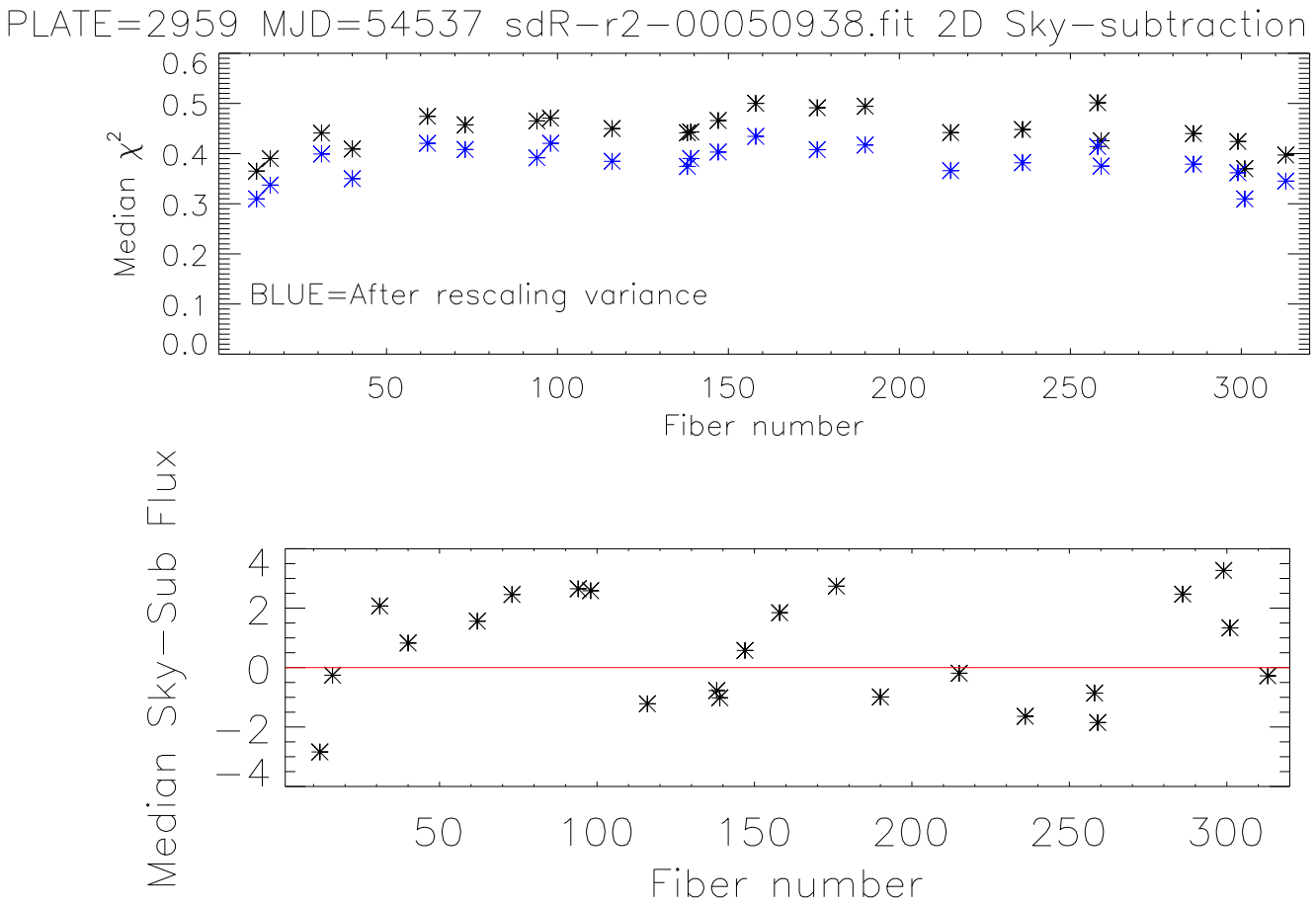

PLATE=2959 MJD=54537 sdR-r2-00050938.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

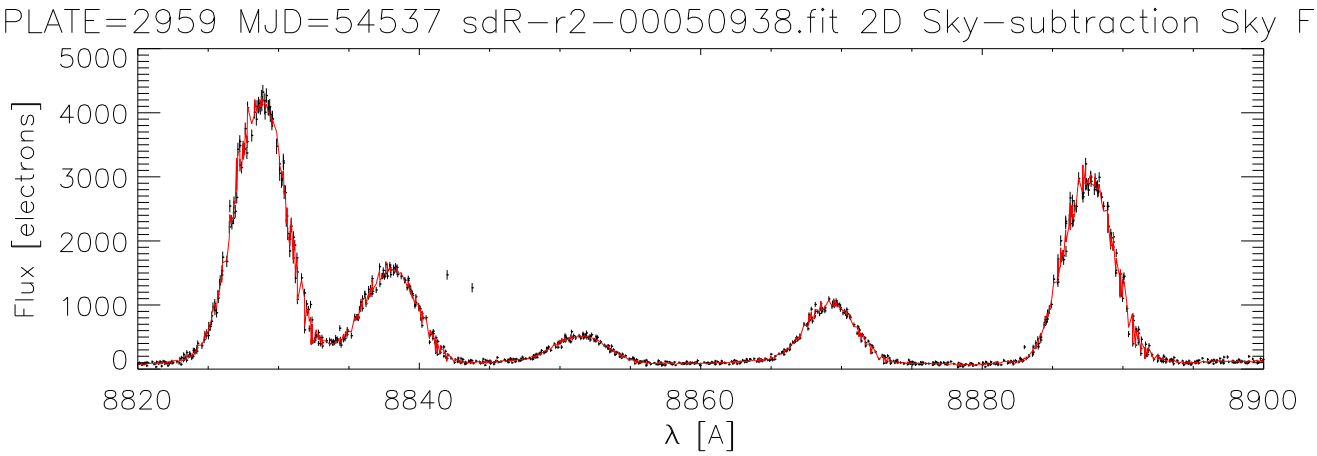
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

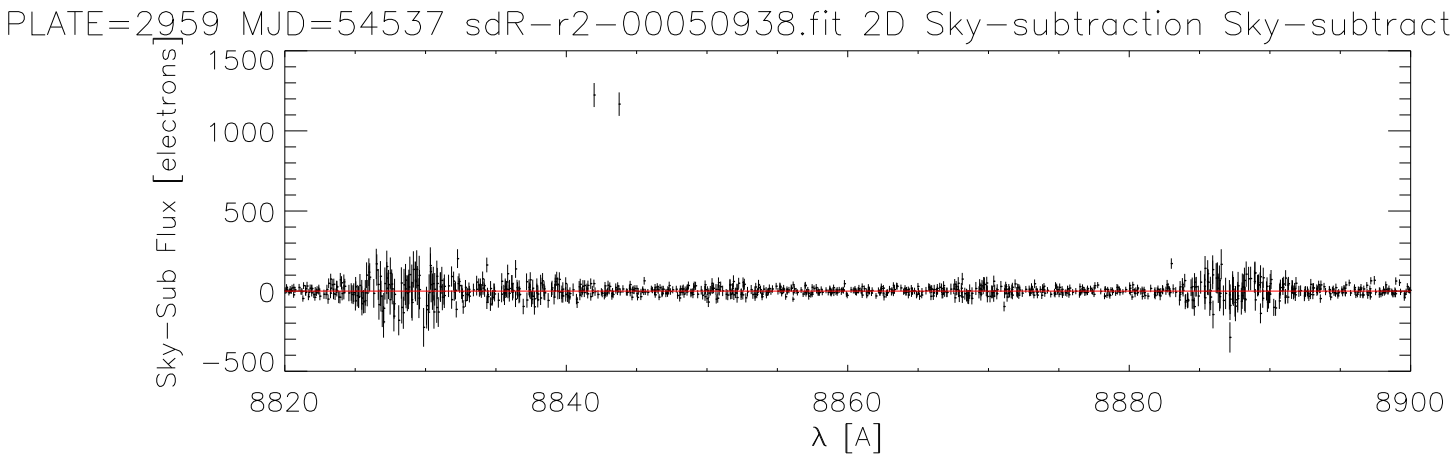

PLATE=2959 MJD=54537 sdR-r2-00050938.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

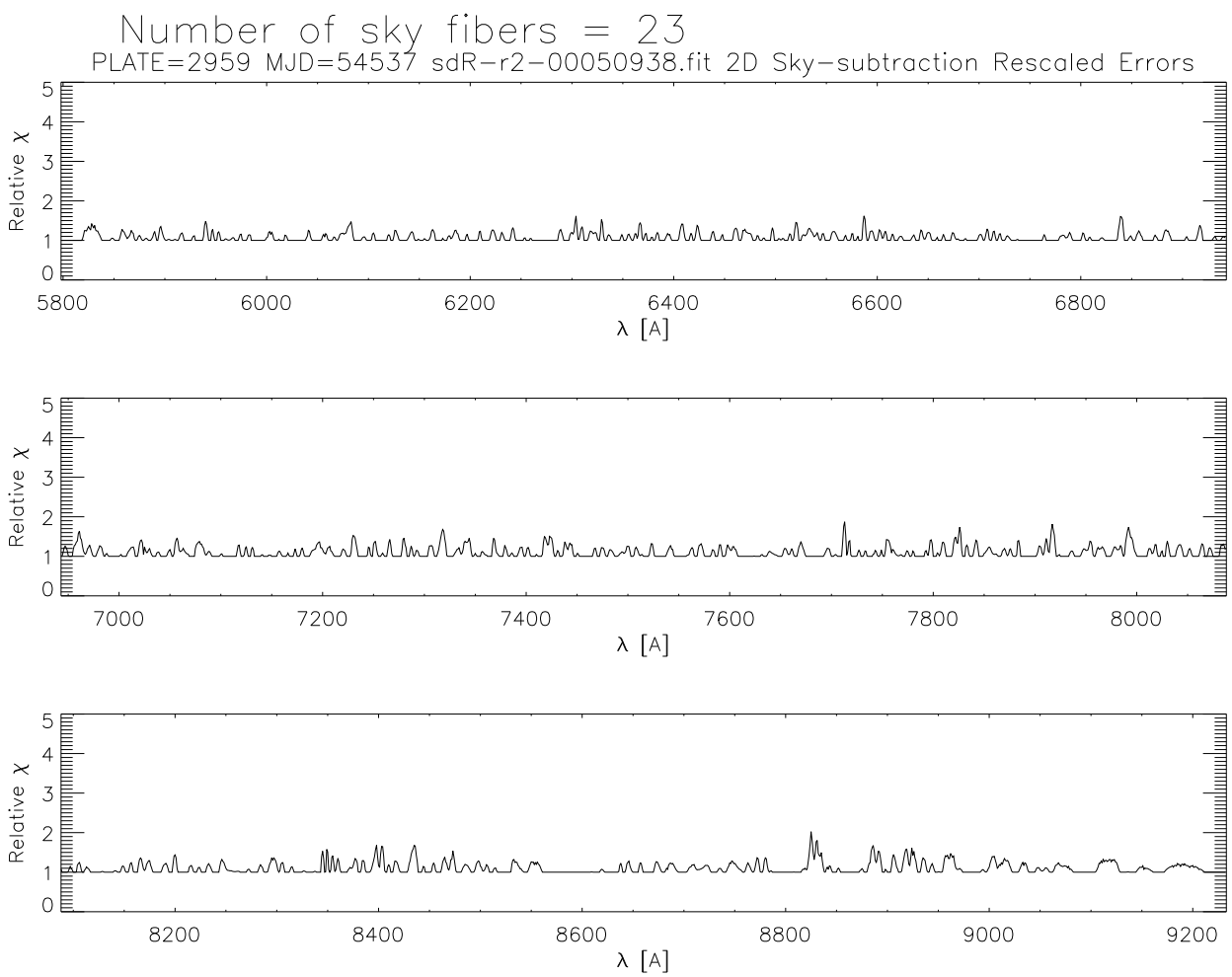

PLATE=2959 MJD=54537 sdR-r2-00050938.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

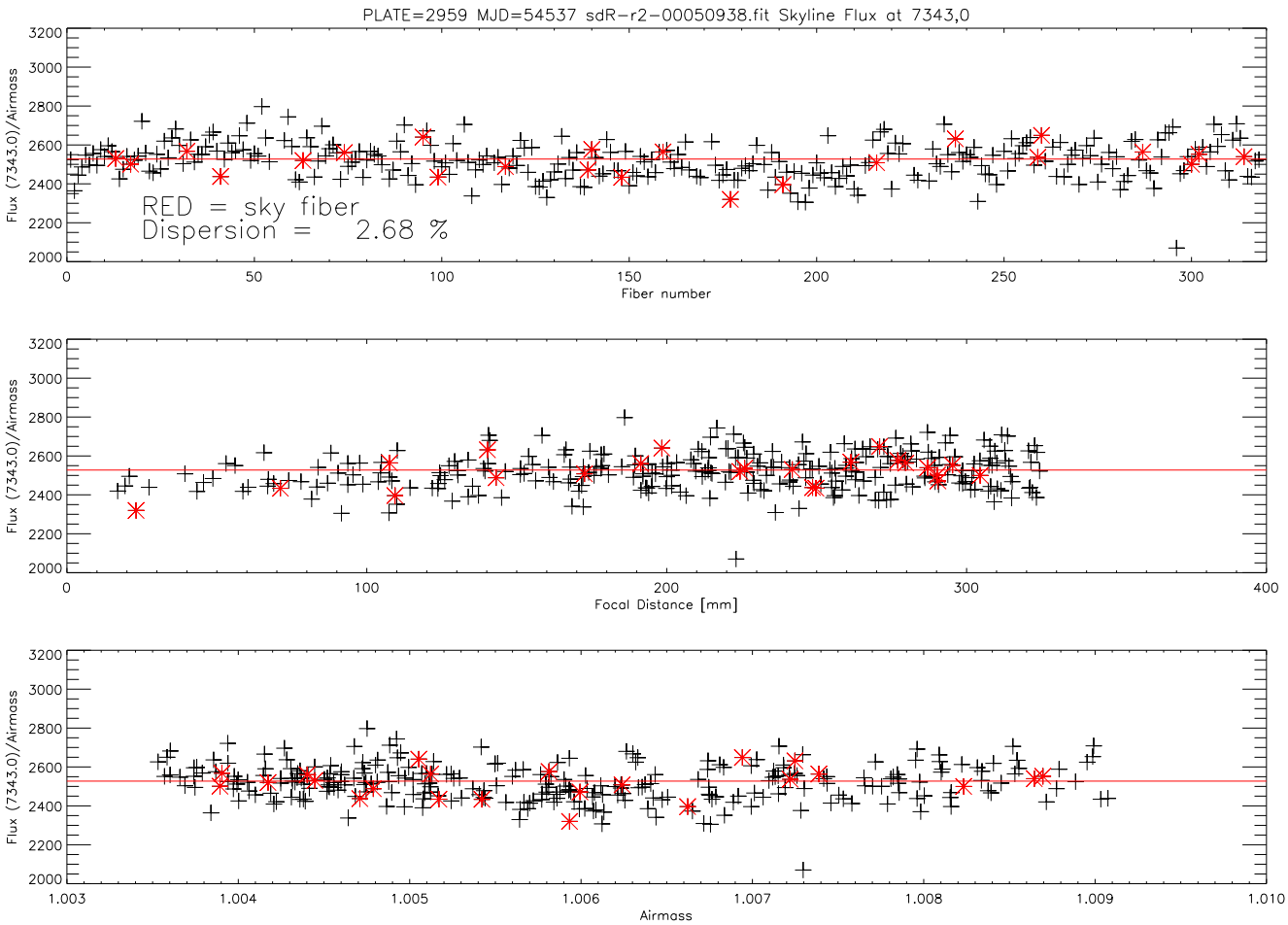

Number of sky fibers = 23
PLATE=2959 MJD=54537 sdR-r2-00050938.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

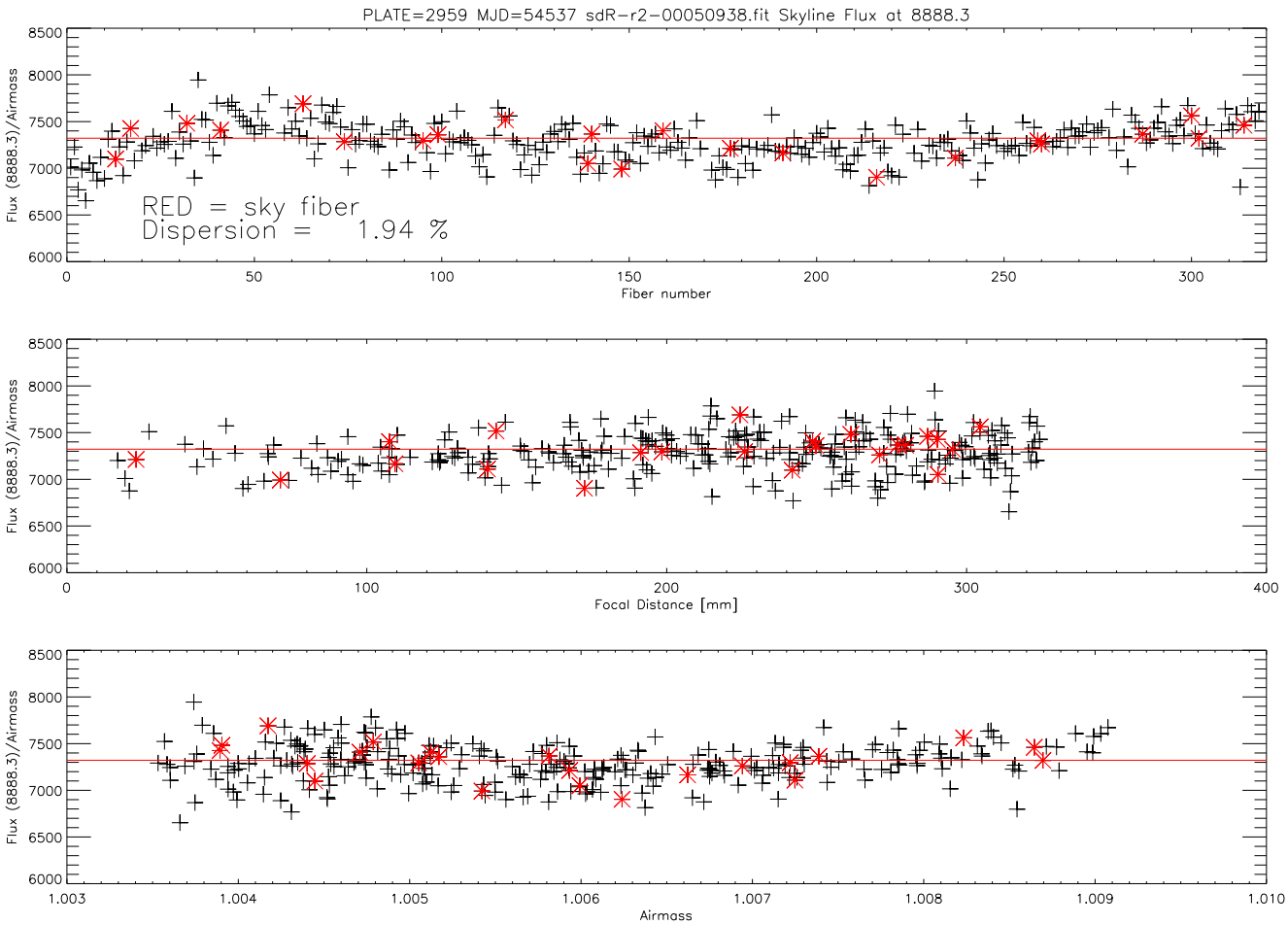

PLATE=2959 MJD=54537 sdR-r2-00050938.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
50
100
150
200
250
300
Fiber number

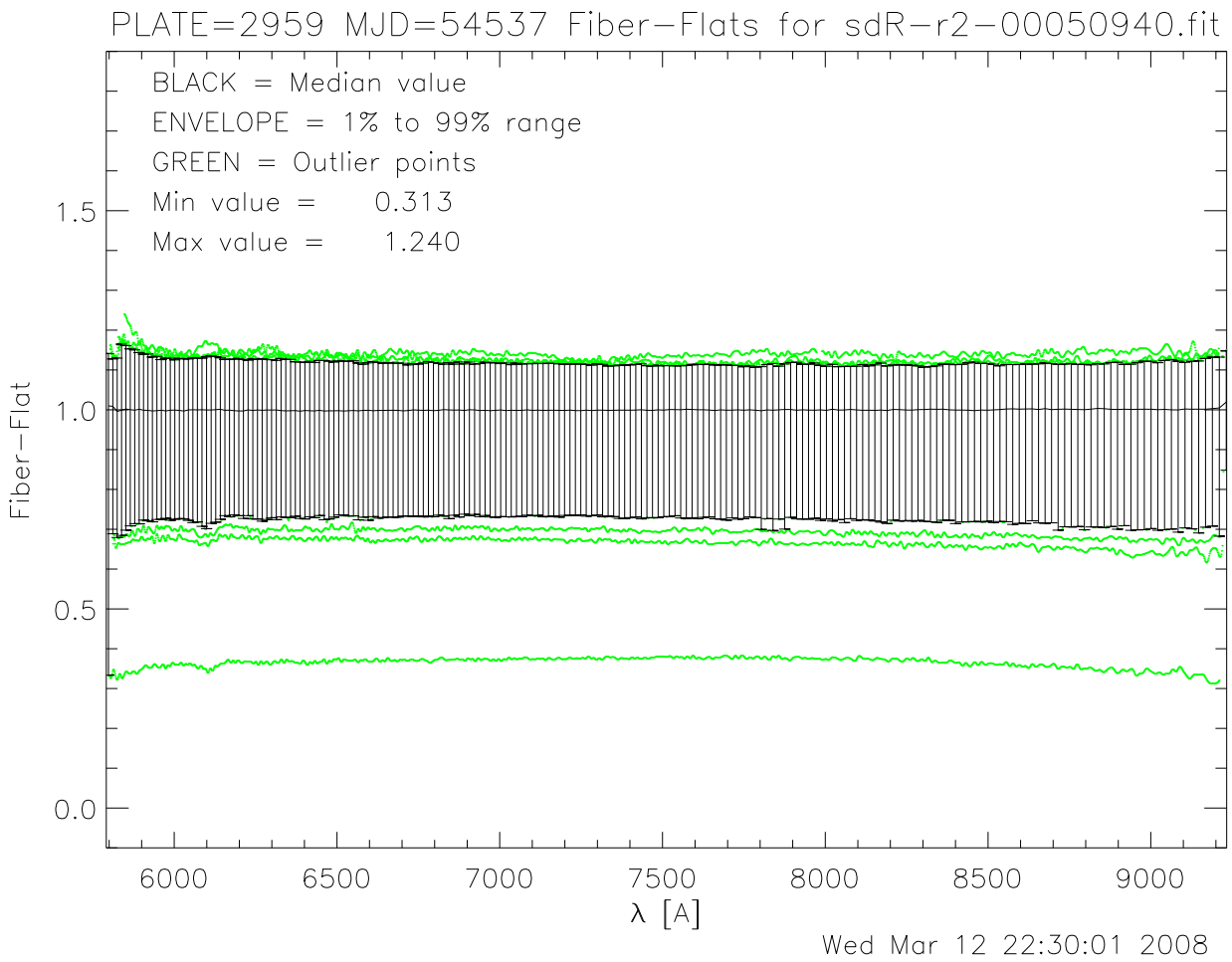

PLATE=2959 MJD=54537 sdR-r2-00050938.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

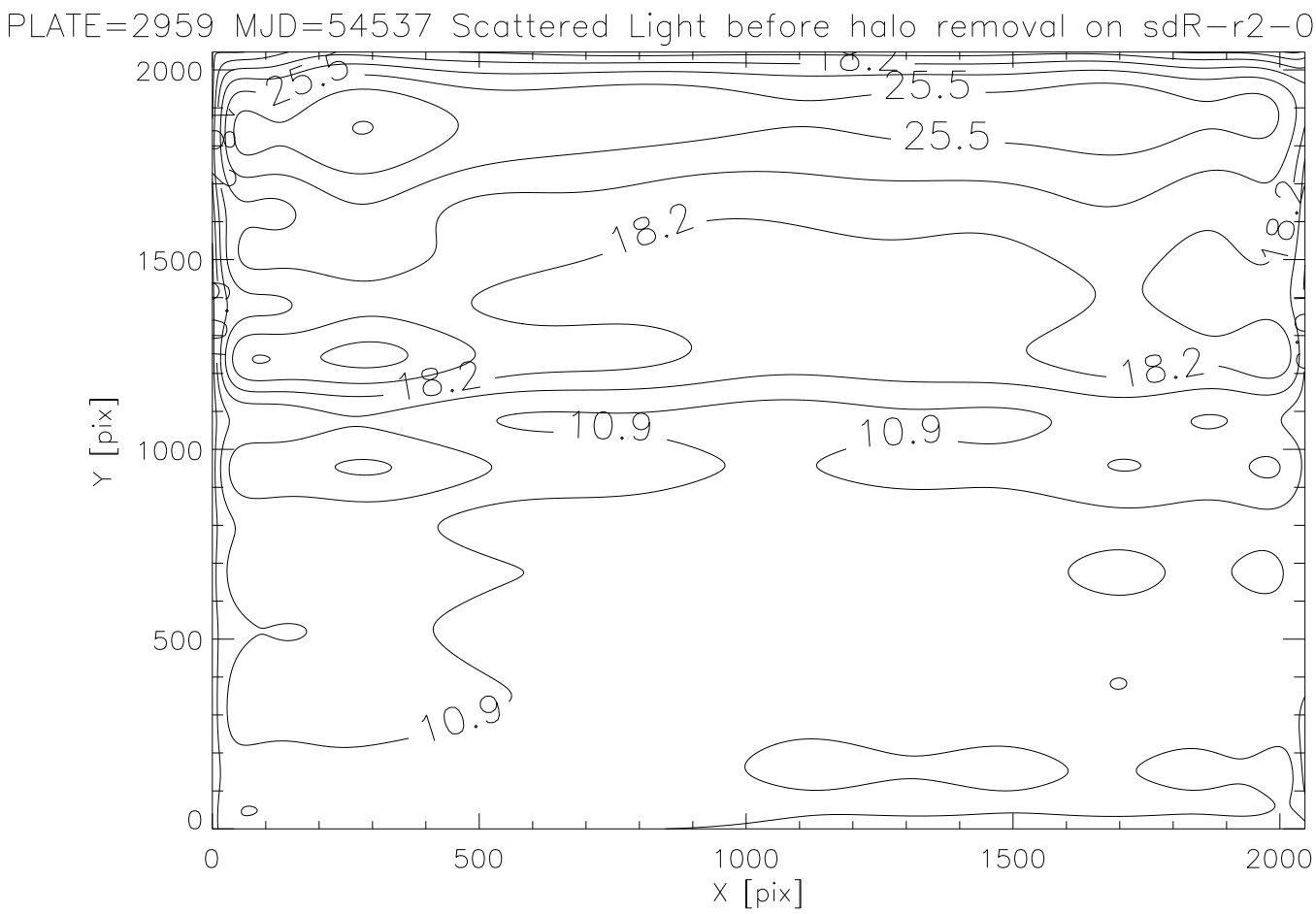

PLATE=2959 MJD=54537 sdR-r2-00050938.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

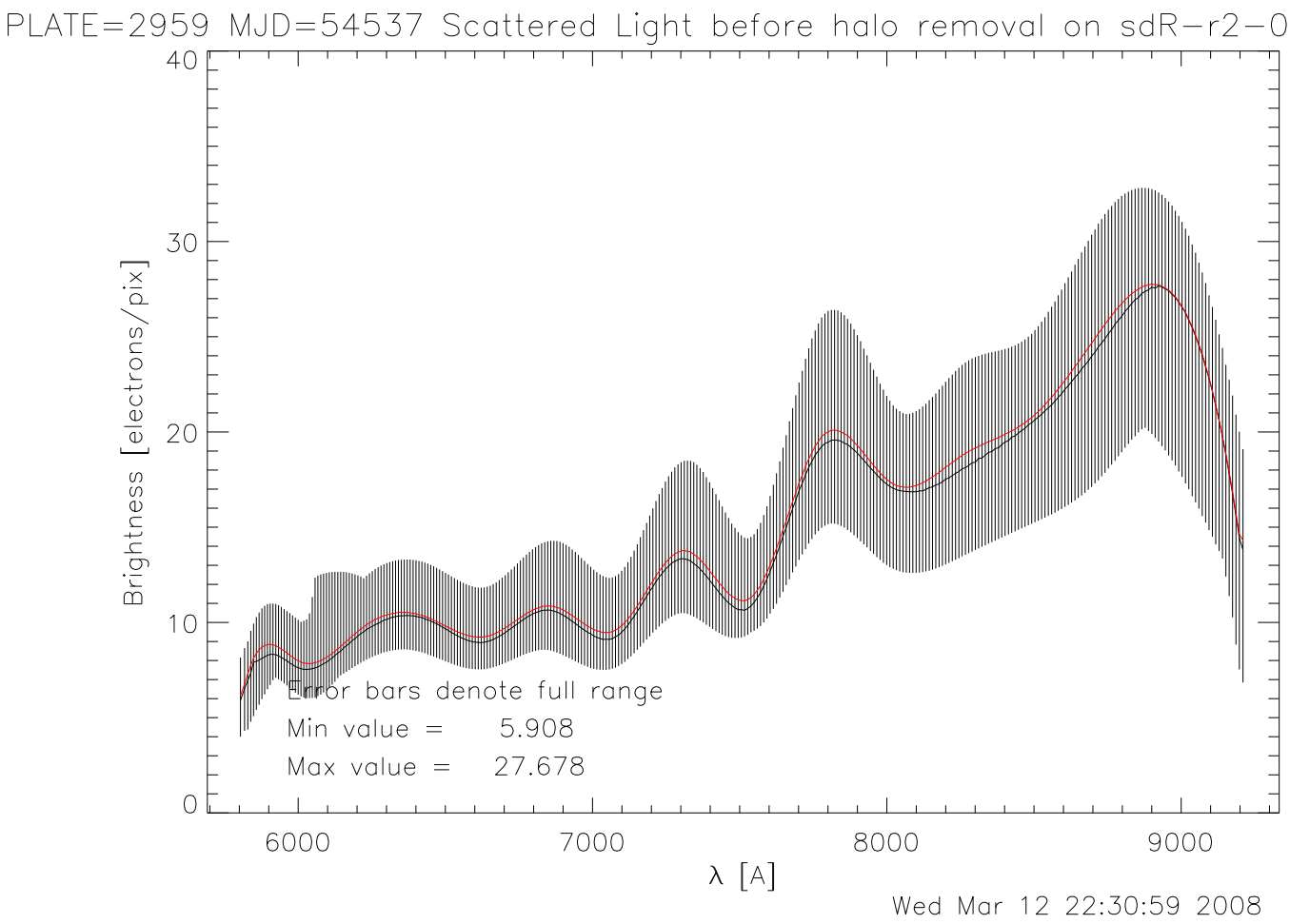

Number of sky fibers = 23
PLATE=2959 MJD=54537 sdR-r2-00050938.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

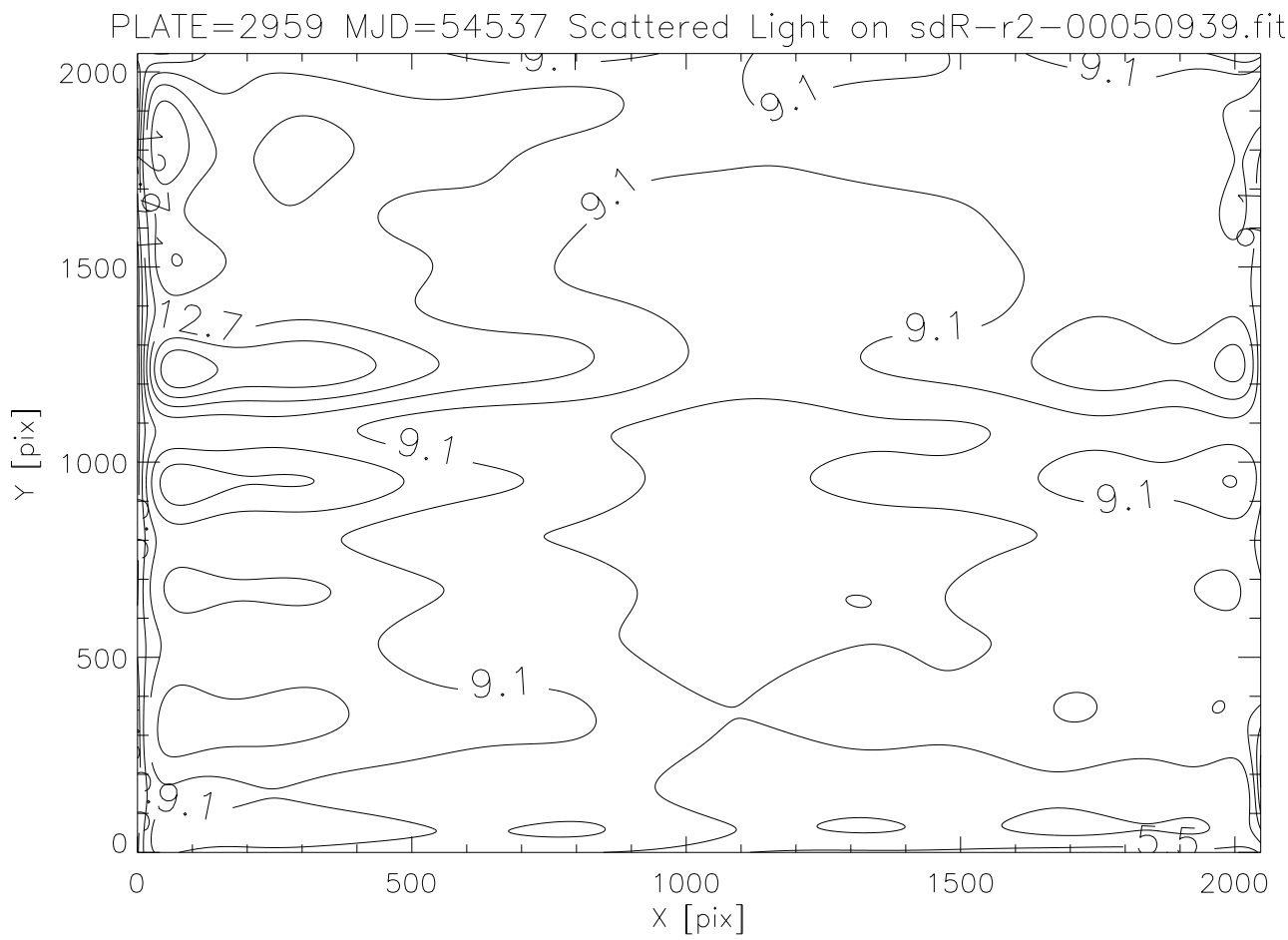

PLATE=2959 MJD=54537 sdR-r2-00050938.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.68 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

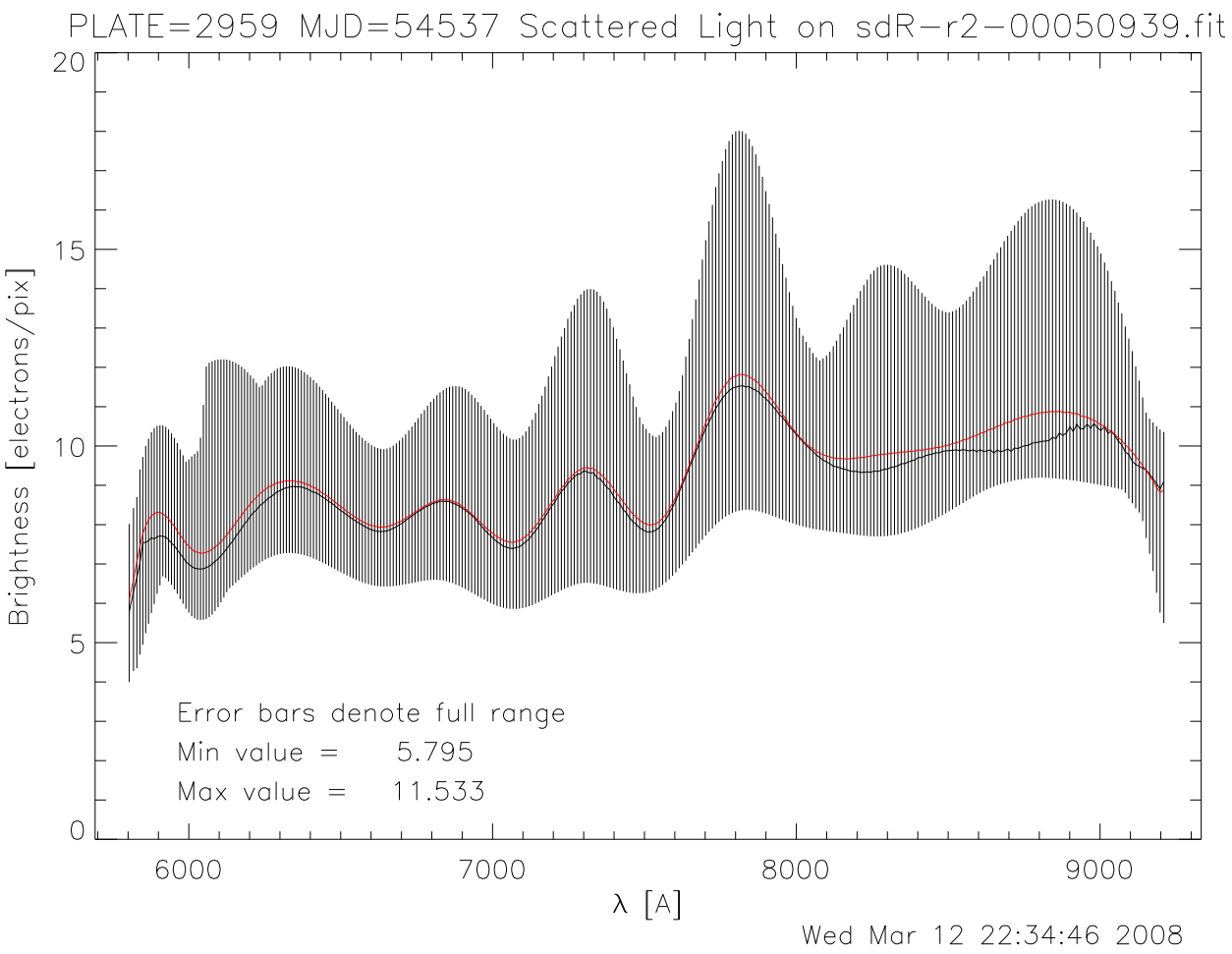

PLATE=2959 MJD=54537 sdR-r2-00050938.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.94 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

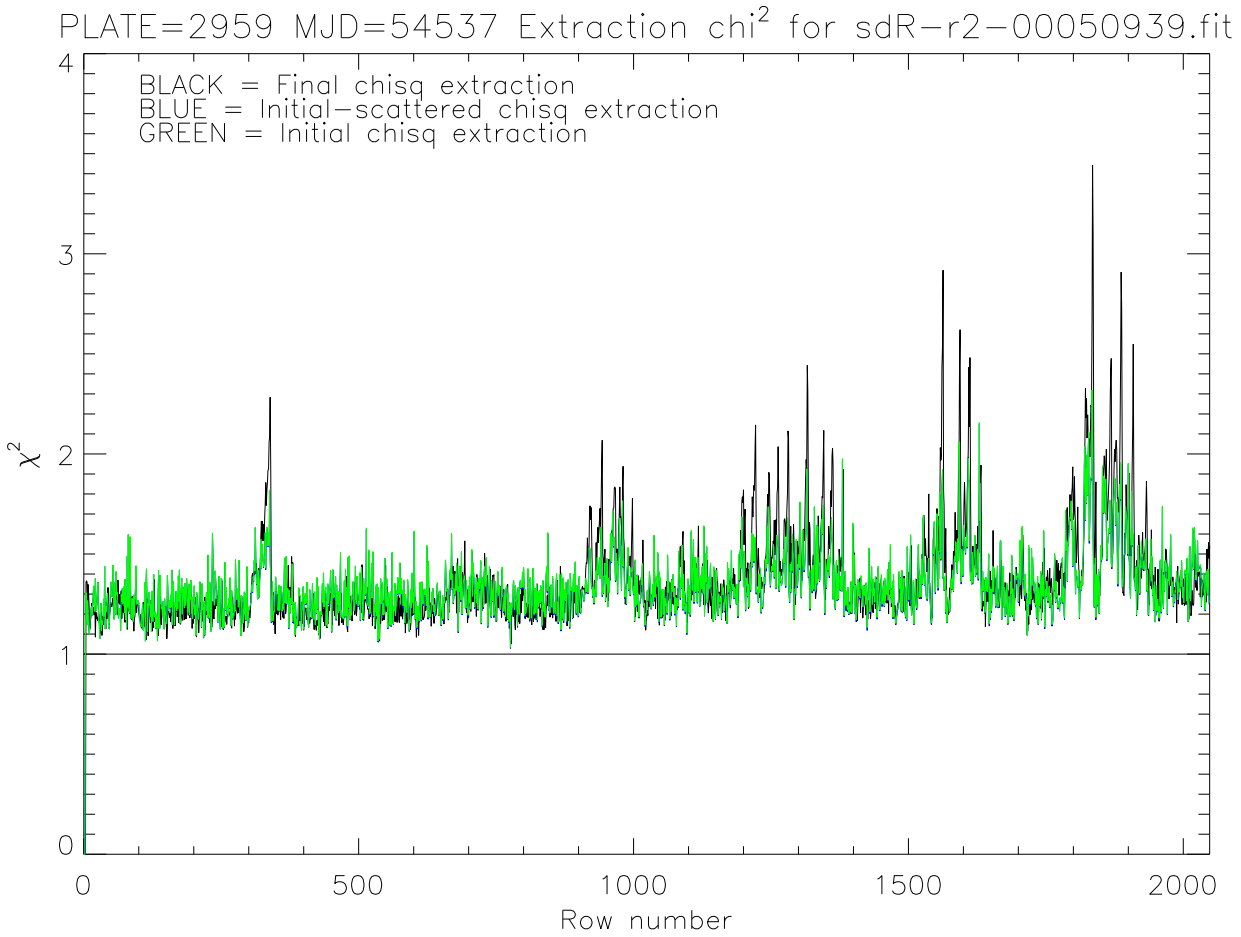

PLATE=2959 MJD=54537 Fiber−Flats for sdR−r2−00050940.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.313
Max value = 1.240
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 12 22:30:01 2008

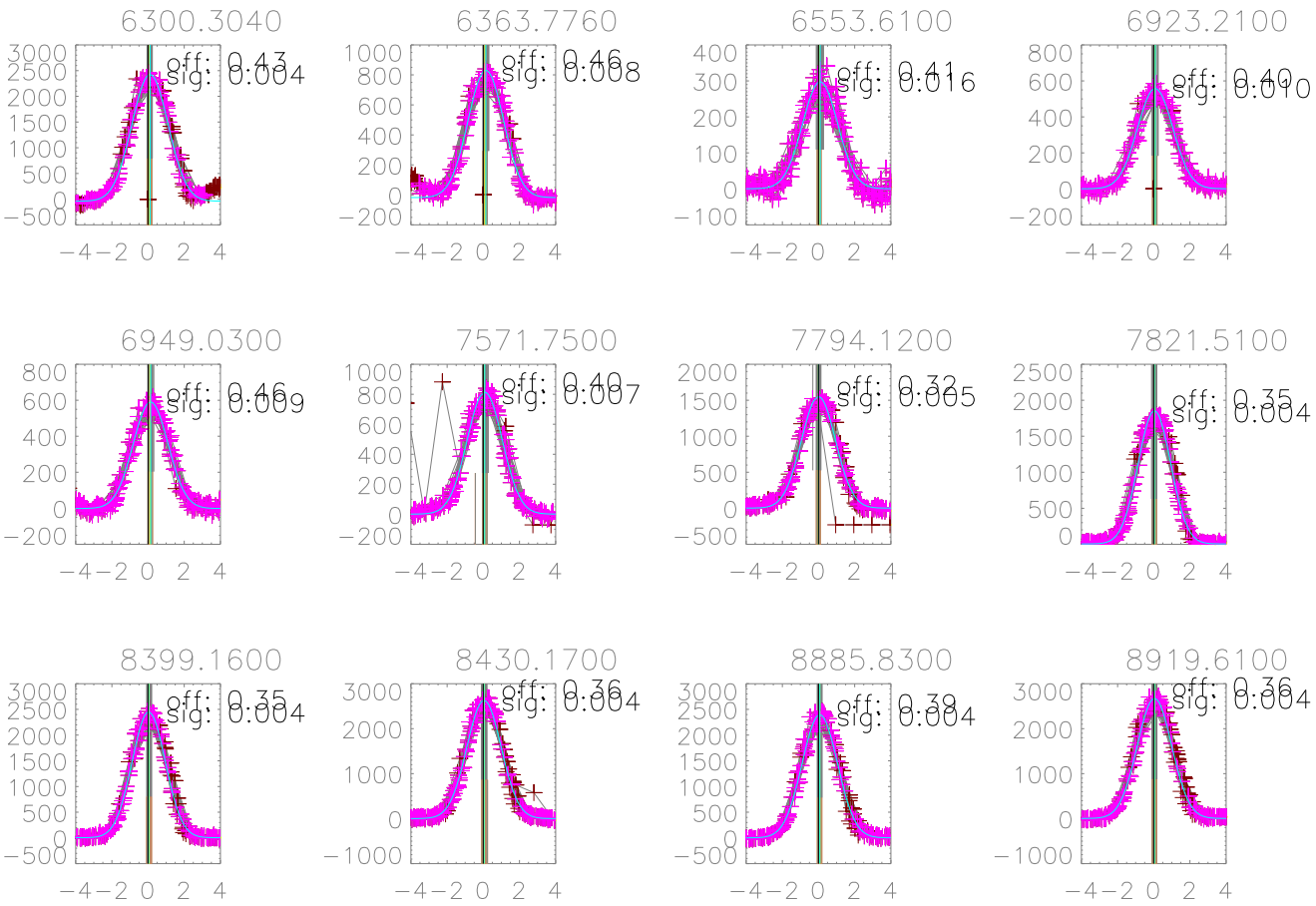

PLATE=2959 MJD=54537 Scattered Light before halo removal on sdR-r2-00050939.fi
25.5
25.5
25.5
18.2
18.2
18.2
18.2
10.9
10.9
10.9
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

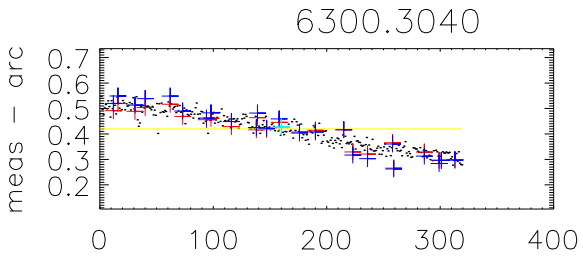

PLATE=2959 MJD=54537 Scattered Light before halo removal on sdR-r2-00050939.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.908
Max value = 27.678
Wed Mar 12 22:30:59 2008

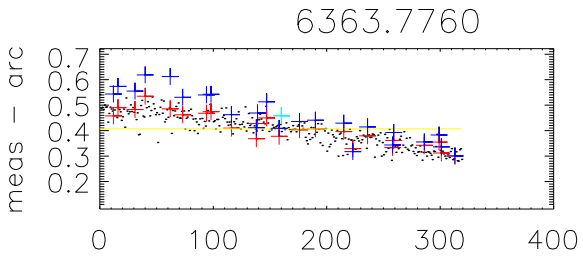

PLATE=2959 MJD=54537 Scattered Light on sdR-r2-00050939.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
9.1
12.7
5.5

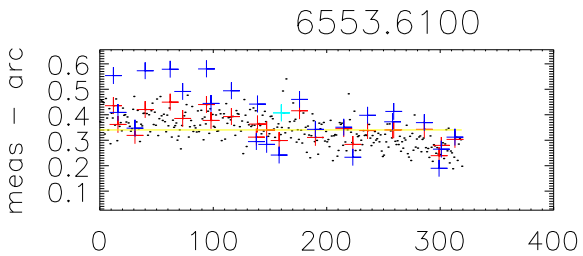

PLATE=2959 MJD=54537 Scattered Light on sdR-r2-00050939.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.795
Max value = 11.533
Wed Mar 12 22:34:46 2008

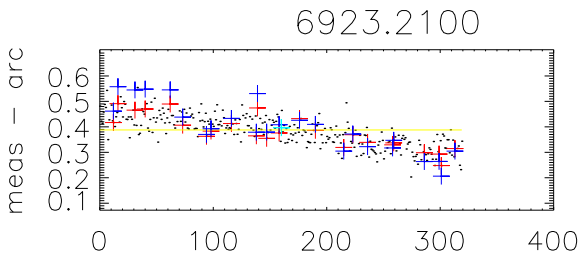

PLATE=2959 MJD=54537 Extraction chi^2 for sdR−r2−00050939.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

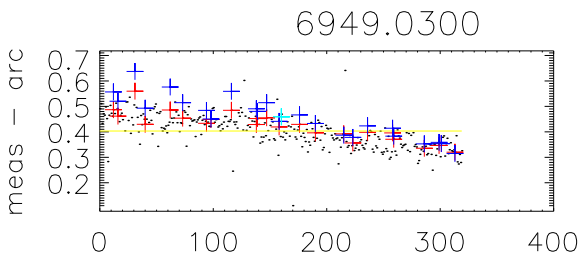

6300.3040
off: 0.43
sig: 0.004
6363.7760
off: 0.46
sig: 0.008
6553.6100
off: 0.41
sig: 0.016
6923.2100
off: 0.40
sig: 0.010
6949.0300
off: 0.46
sig: 0.009
7571.7500
off: 0.40
sig: 0.007
7794.1200
off: 0.32
sig: 0.005
7821.5100
off: 0.35
sig: 0.004
8399.1600
off: 0.35
sig: 0.004
8430.1700
off: 0.36
sig: 0.004
8885.8300
off: 0.38
sig: 0.004
8919.6100
off: 0.36
sig: 0.004

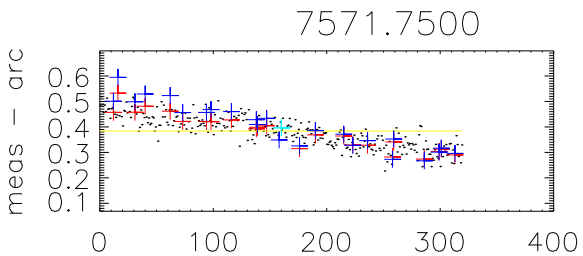

6300.3040
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

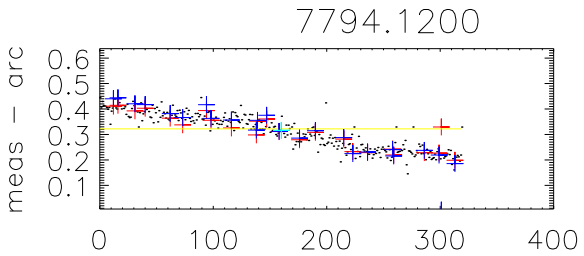

6363.7760
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

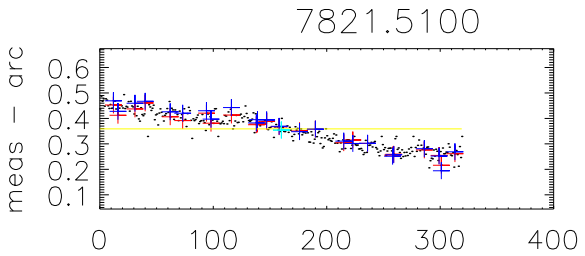

6553.6100
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

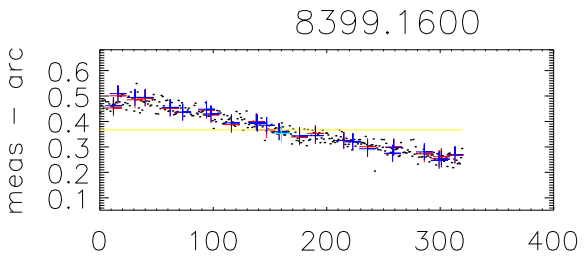

6923.2100
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

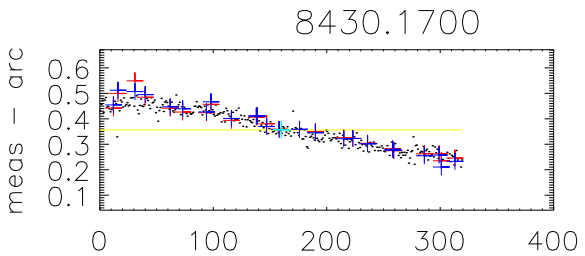

6949.0300
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

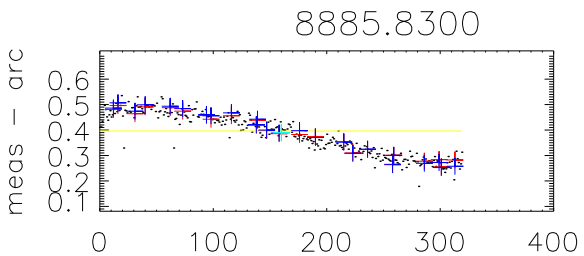

7571.7500
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

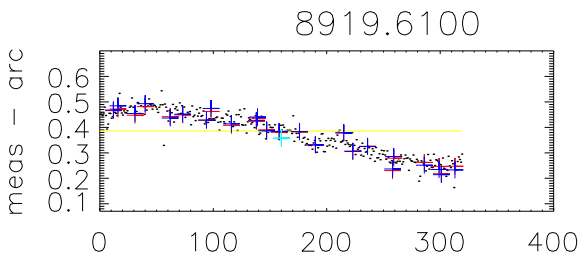

7794.1200
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

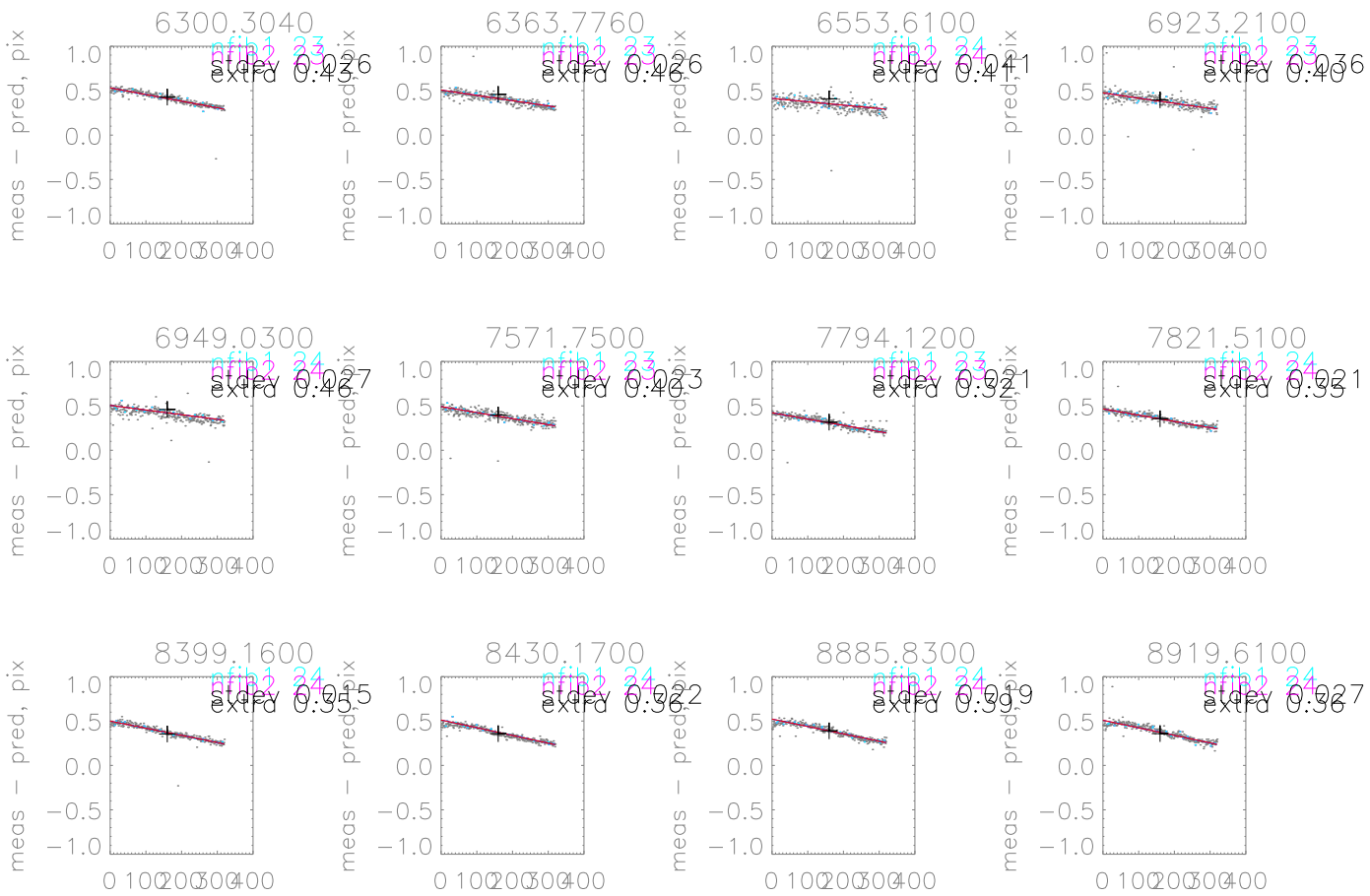

7821.5100
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

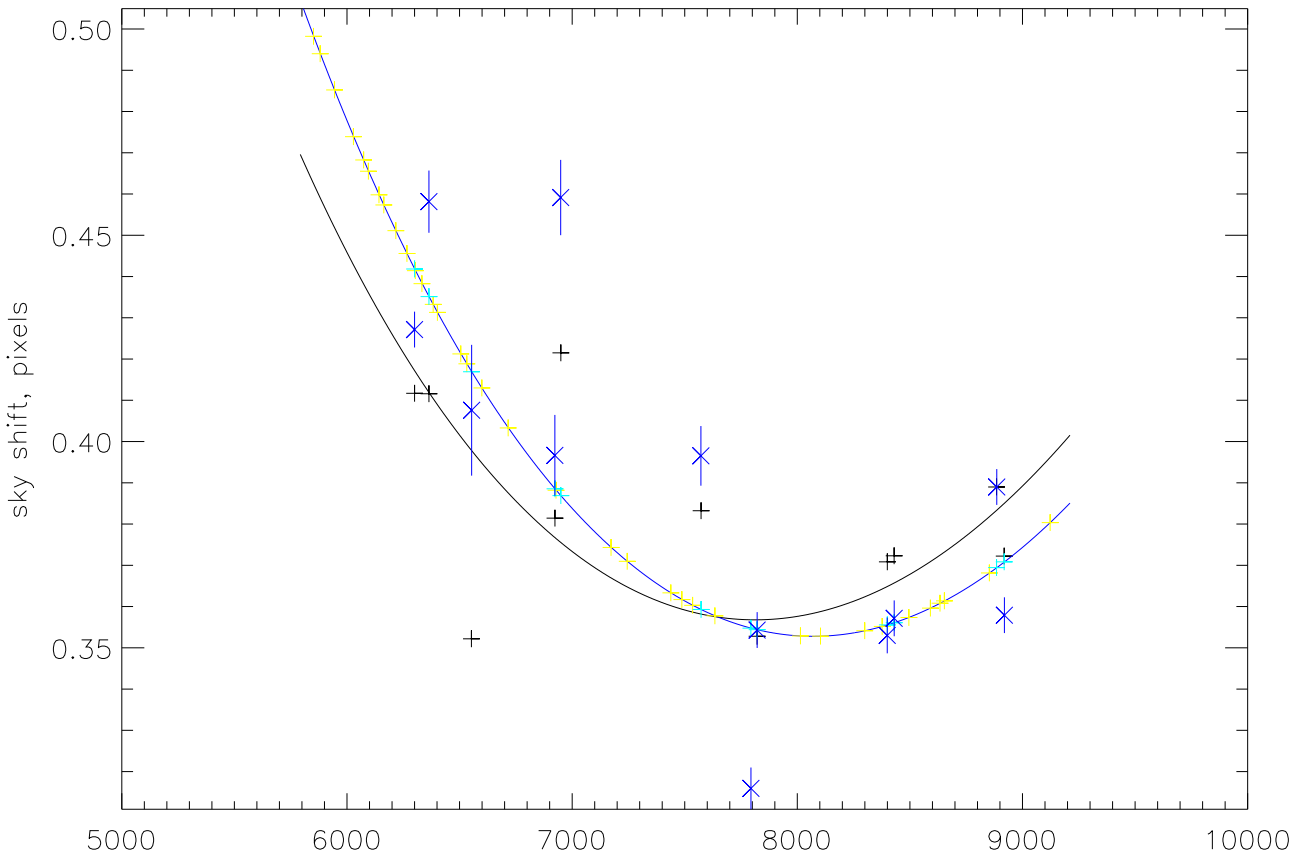

8399.1600
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

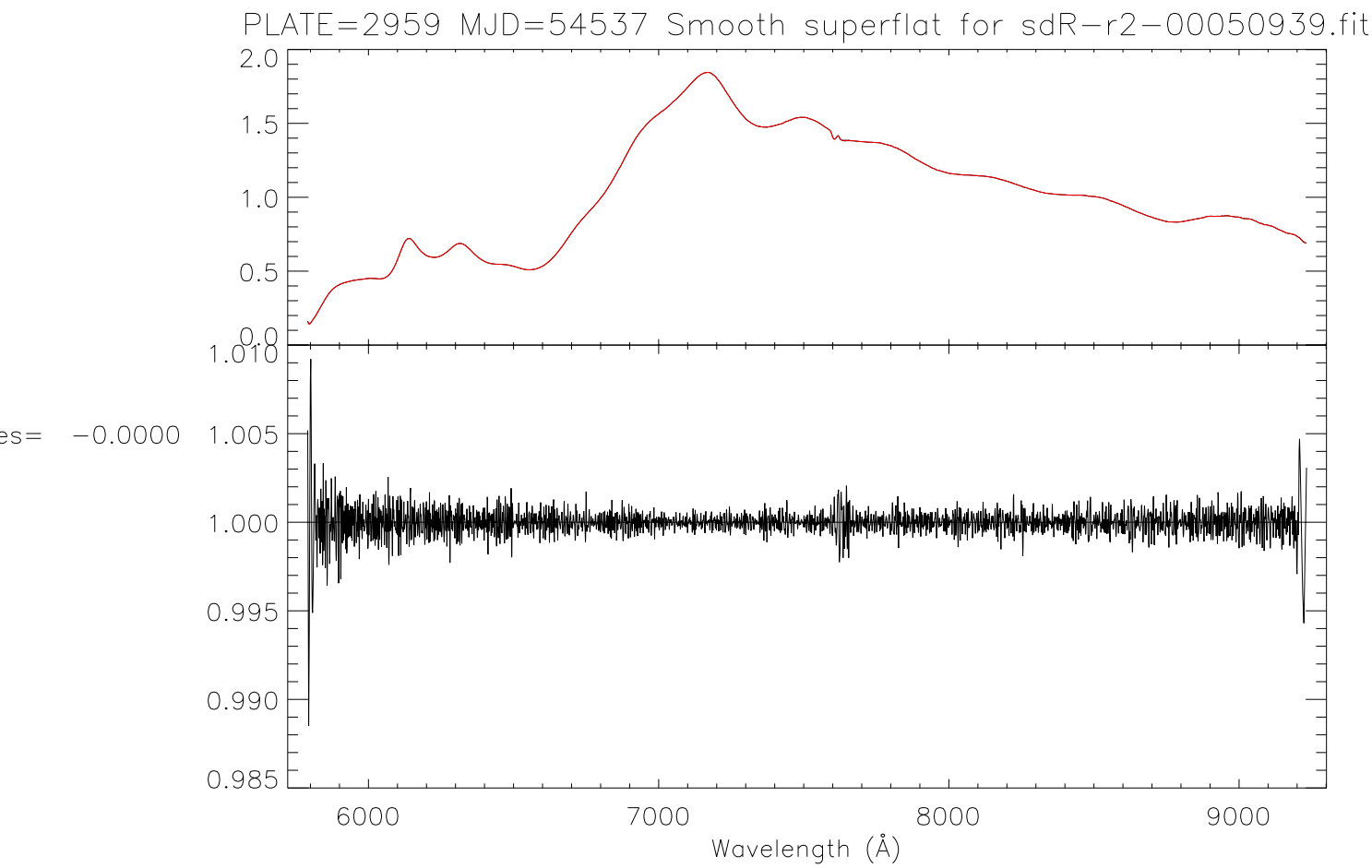

8430.1700
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

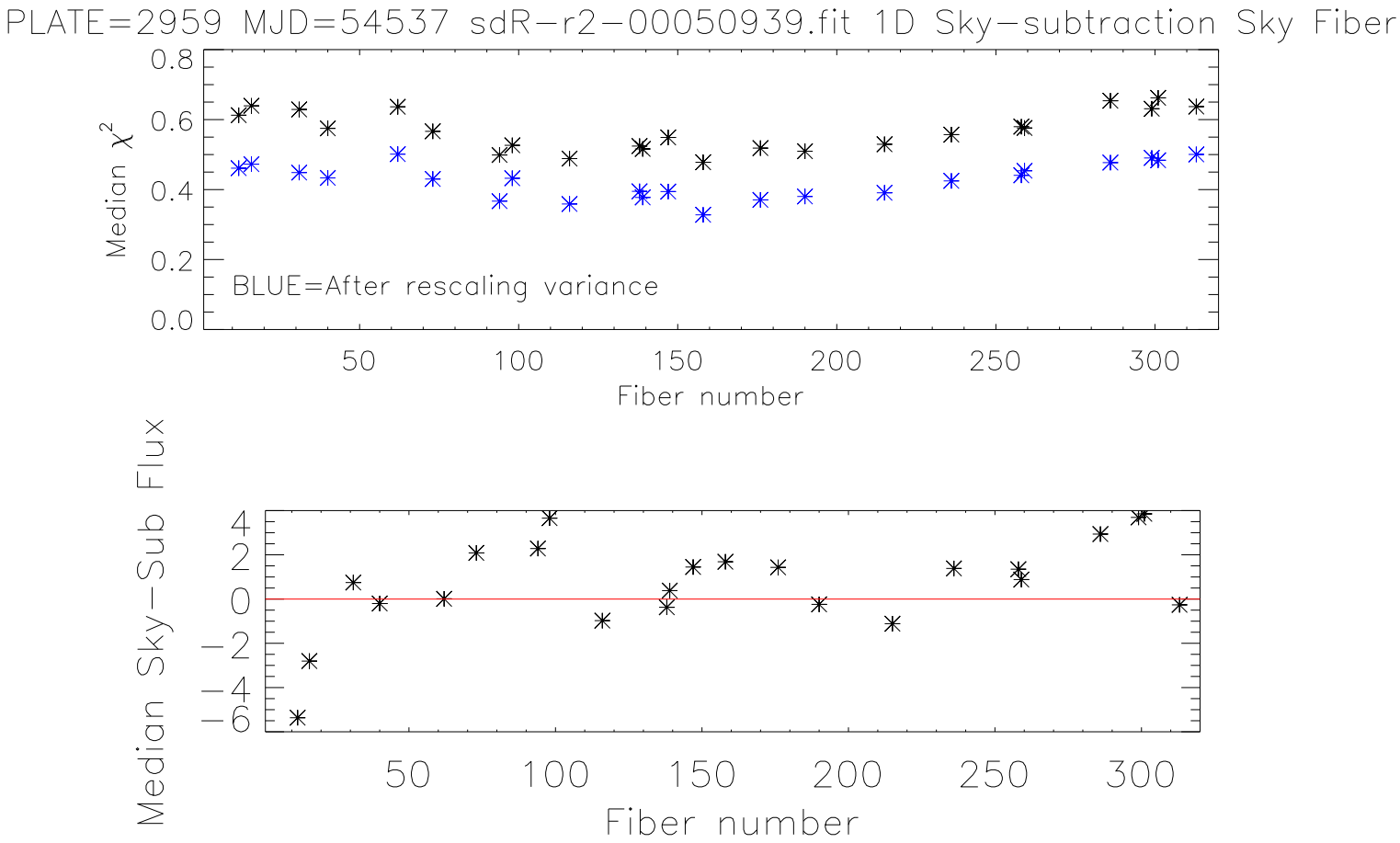

8885.8300
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

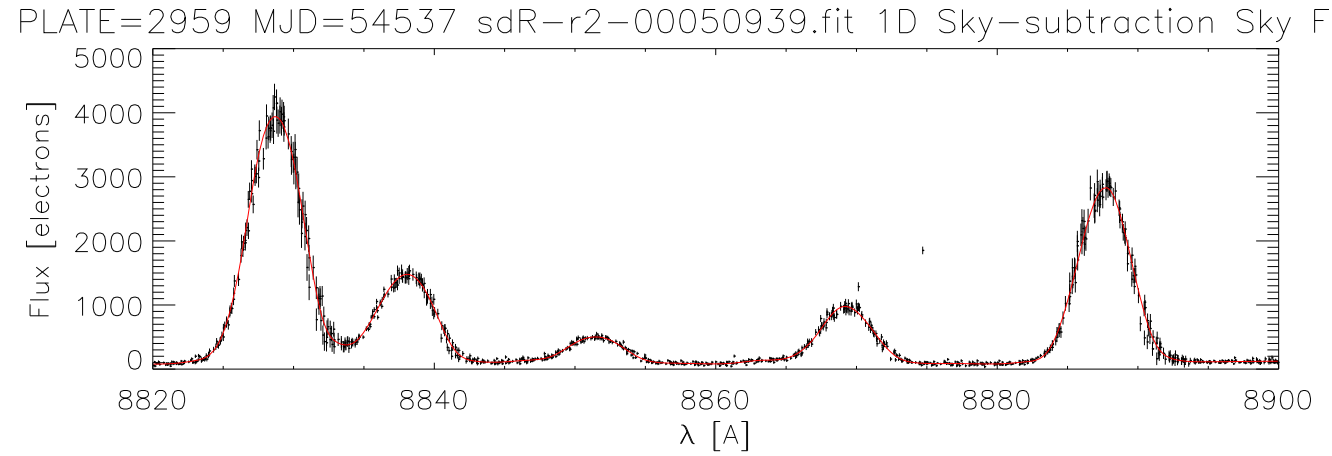

8919.6100
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

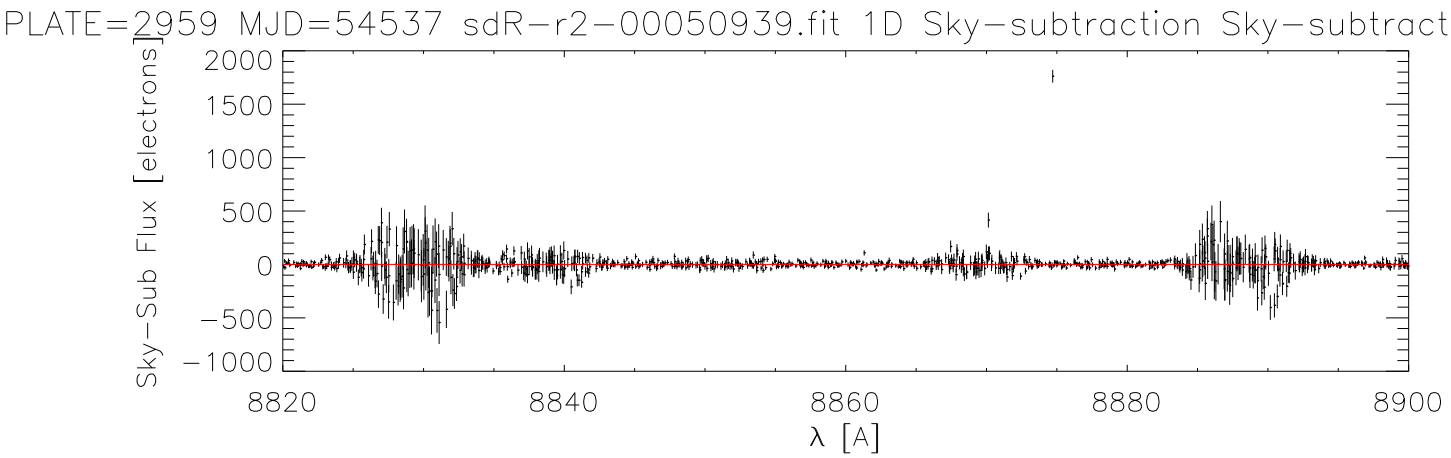

6300.3040
mfib1 23
mfib2 23
stdev 0.026
extra 0.43
6363.7760
mfib1 23
mfib2 23
stdev 0.026
extra 0.46
6553.6100
mfib1 24
mfib2 24
stdev 0.041
extra 0.41
6923.2100
mfib1 23
mfib2 23
stdev 0.036
extra 0.40
6949.0300
mfib1 24
mfib2 24
stdev 0.027
extra 0.46
7571.7500
mfib1 23
mfib2 23
stdev 0.023
extra 0.46
7794.1200
mfib1 23
mfib2 23
stdev 0.021
extra 0.32
7821.5100
mfib1 24
mfib2 24
stdev 0.021
extra 0.35
8399.1600
mfib1 24
mfib2 24
stdev 0.025
extra 0.35
8430.1700
mfib1 24
mfib2 24
stdev 0.022
extra 0.36
8885.8300
mfib1 24
mfib2 24
stdev 0.029
extra 0.39
8919.6100
mfib1 24
mfib2 24
stdev 0.027
extra 0.36
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

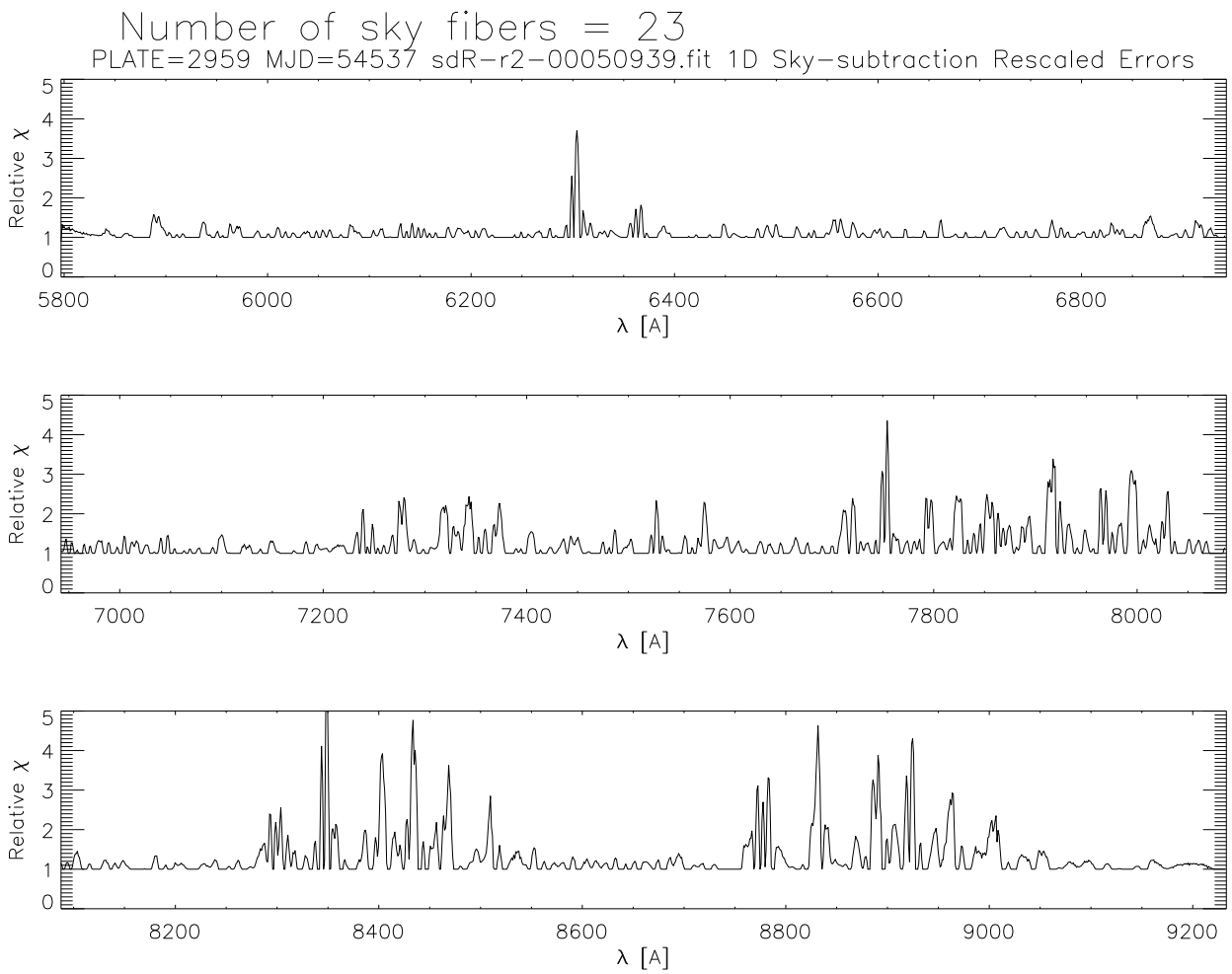

0.50
0.45
0.40
0.35
sky shift, pixels
5000
6000
7000
8000
9000
10000

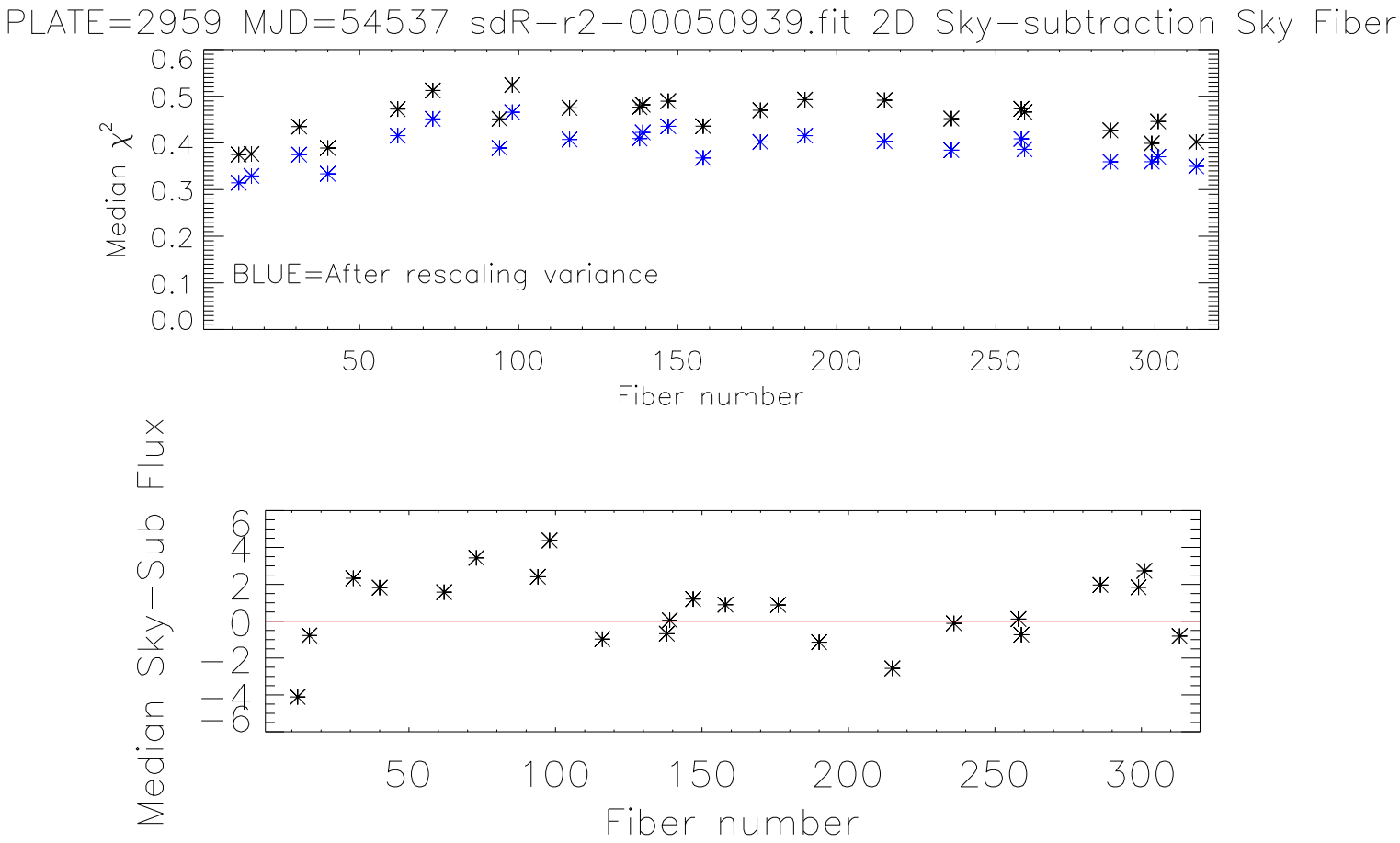

PLATE=2959 MJD=54537 Smooth superflat for sdR-r2-00050939.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

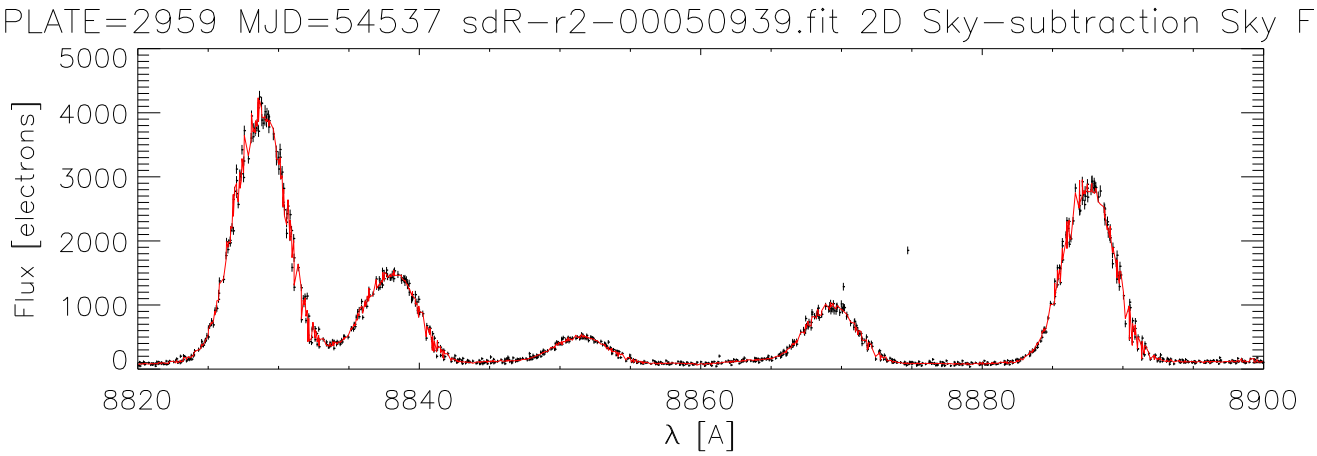

PLATE=2959 MJD=54537 sdR-r2-00050939.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
50
100
150
200
250
300
Fiber number

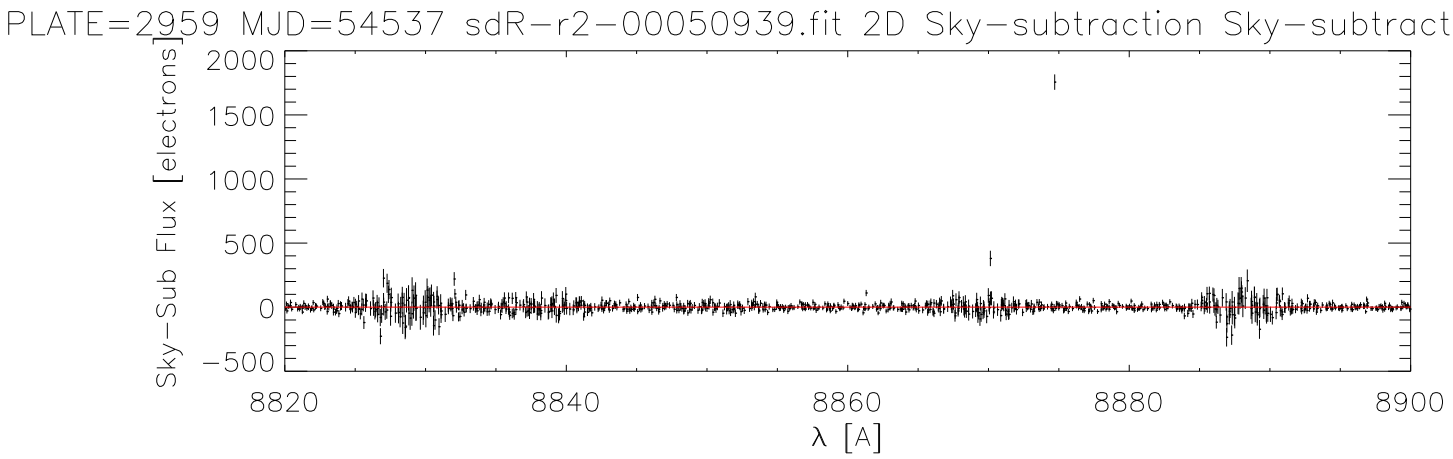

PLATE=2959 MJD=54537 sdR-r2-00050939.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

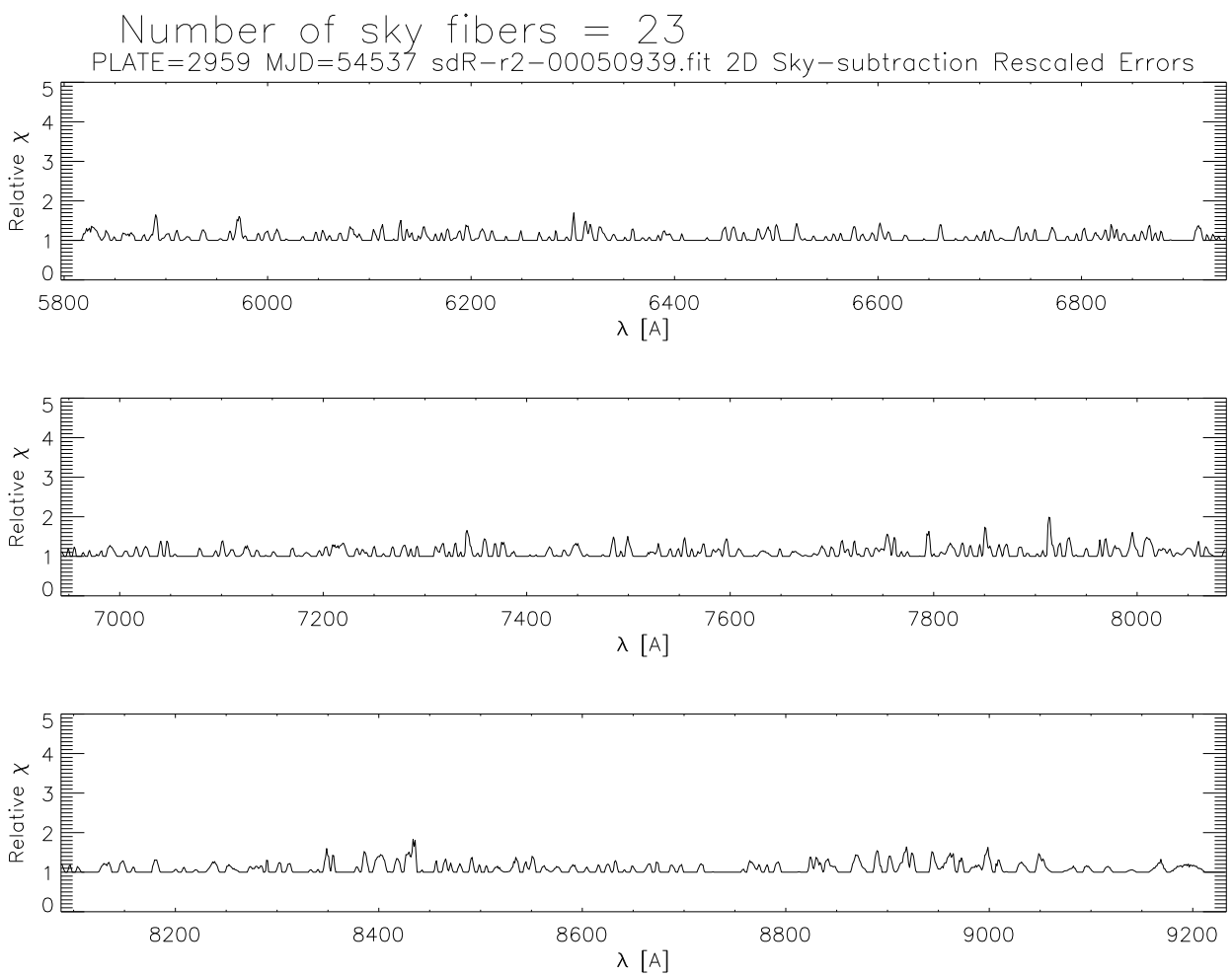

PLATE=2959 MJD=54537 sdR-r2-00050939.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2000
1500
1000
500
0
-500
-1000
8820
8840
8860
8880
8900
λ [A]

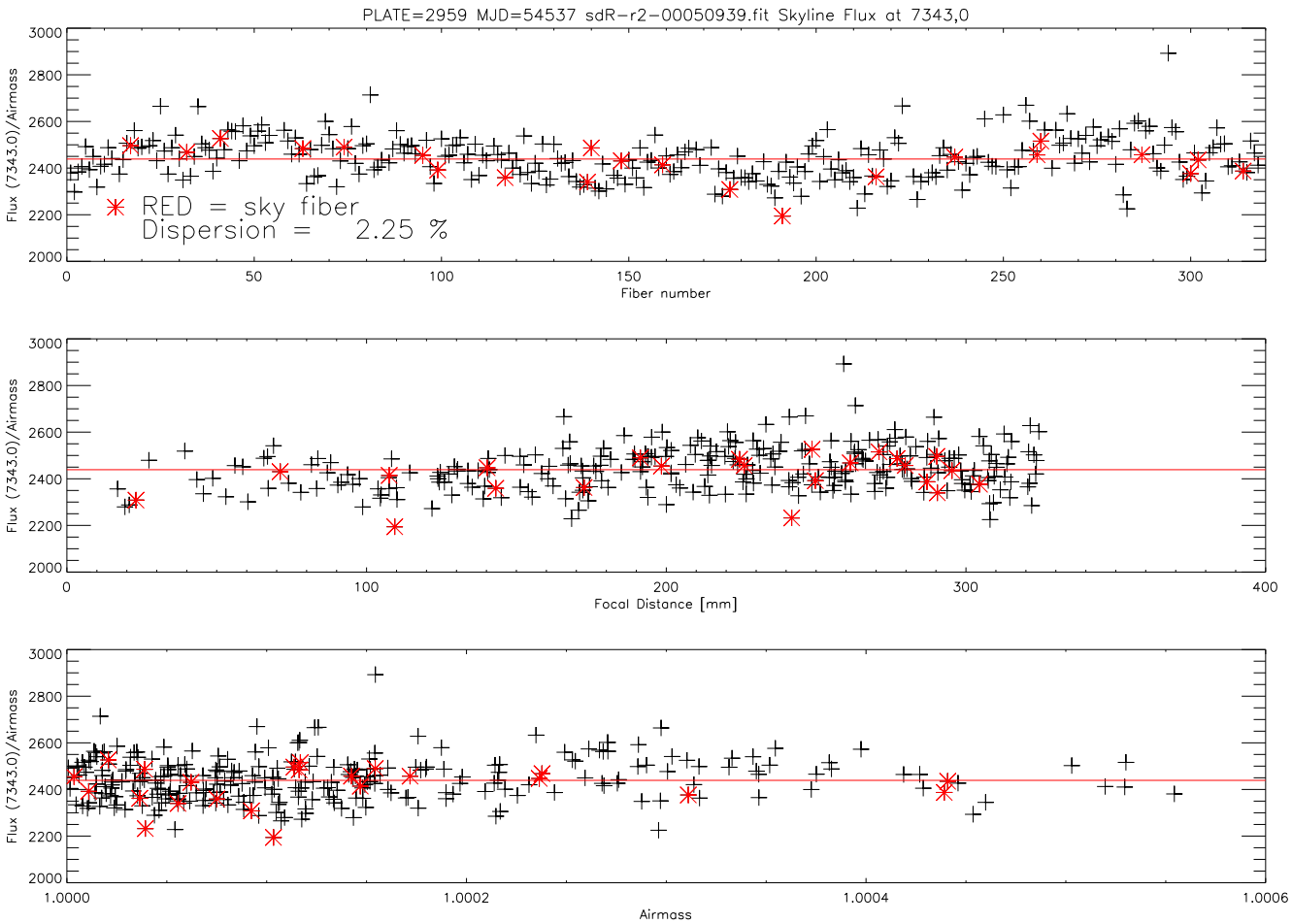

Number of sky fibers = 23
PLATE=2959 MJD=54537 sdR-r2-00050939.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

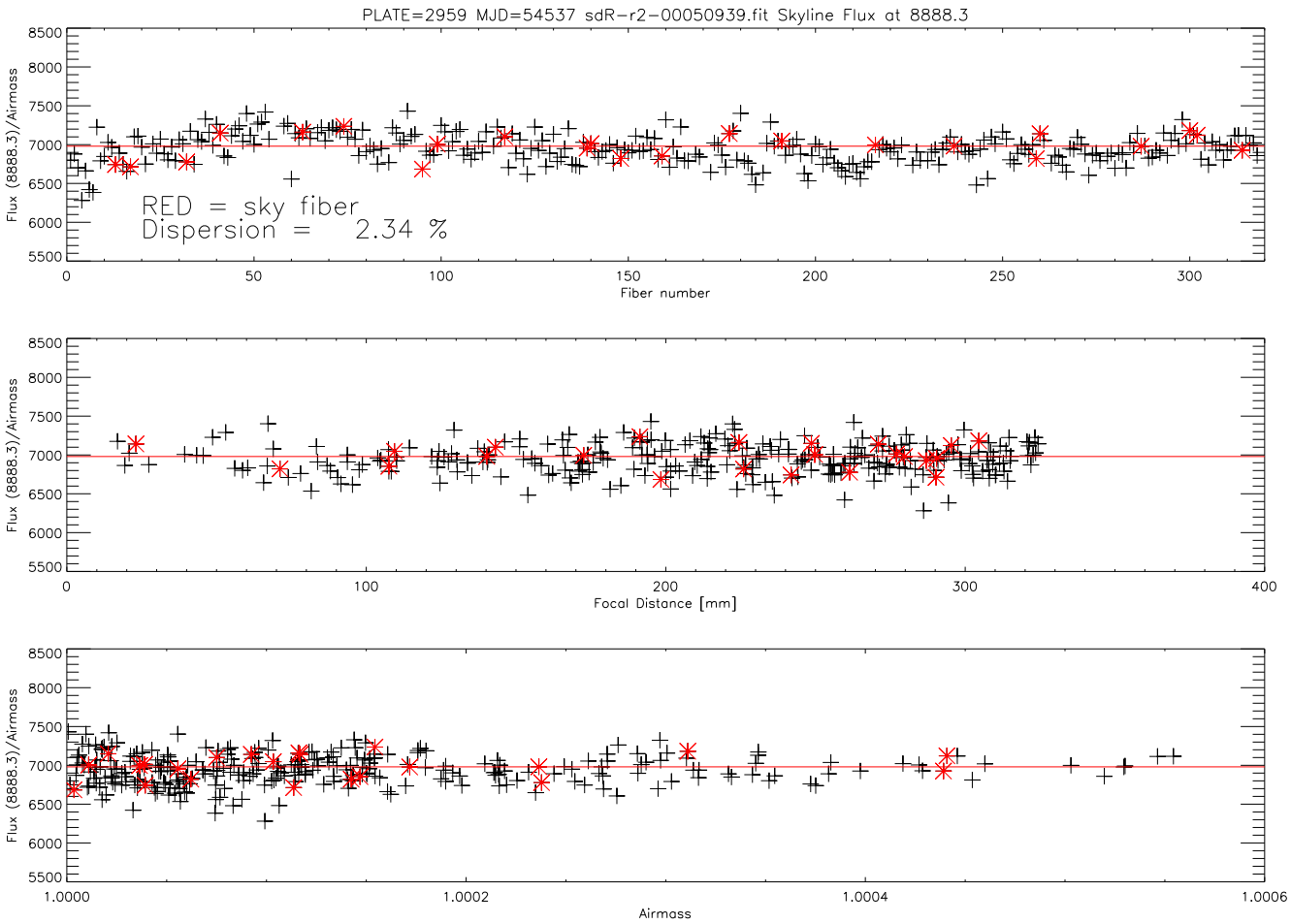

PLATE=2959 MJD=54537 sdR-r2-00050939.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

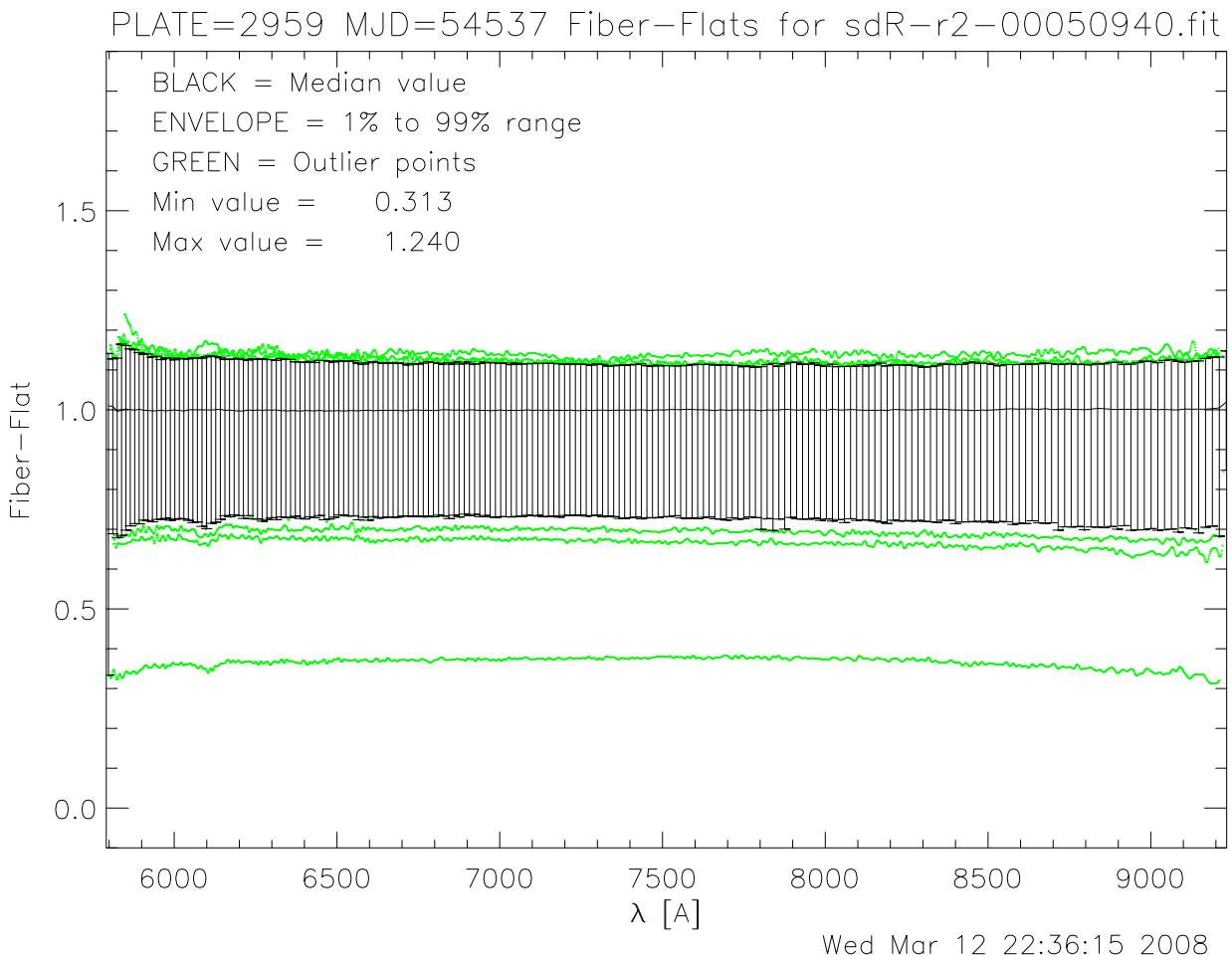

PLATE=2959 MJD=54537 sdR-r2-00050939.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

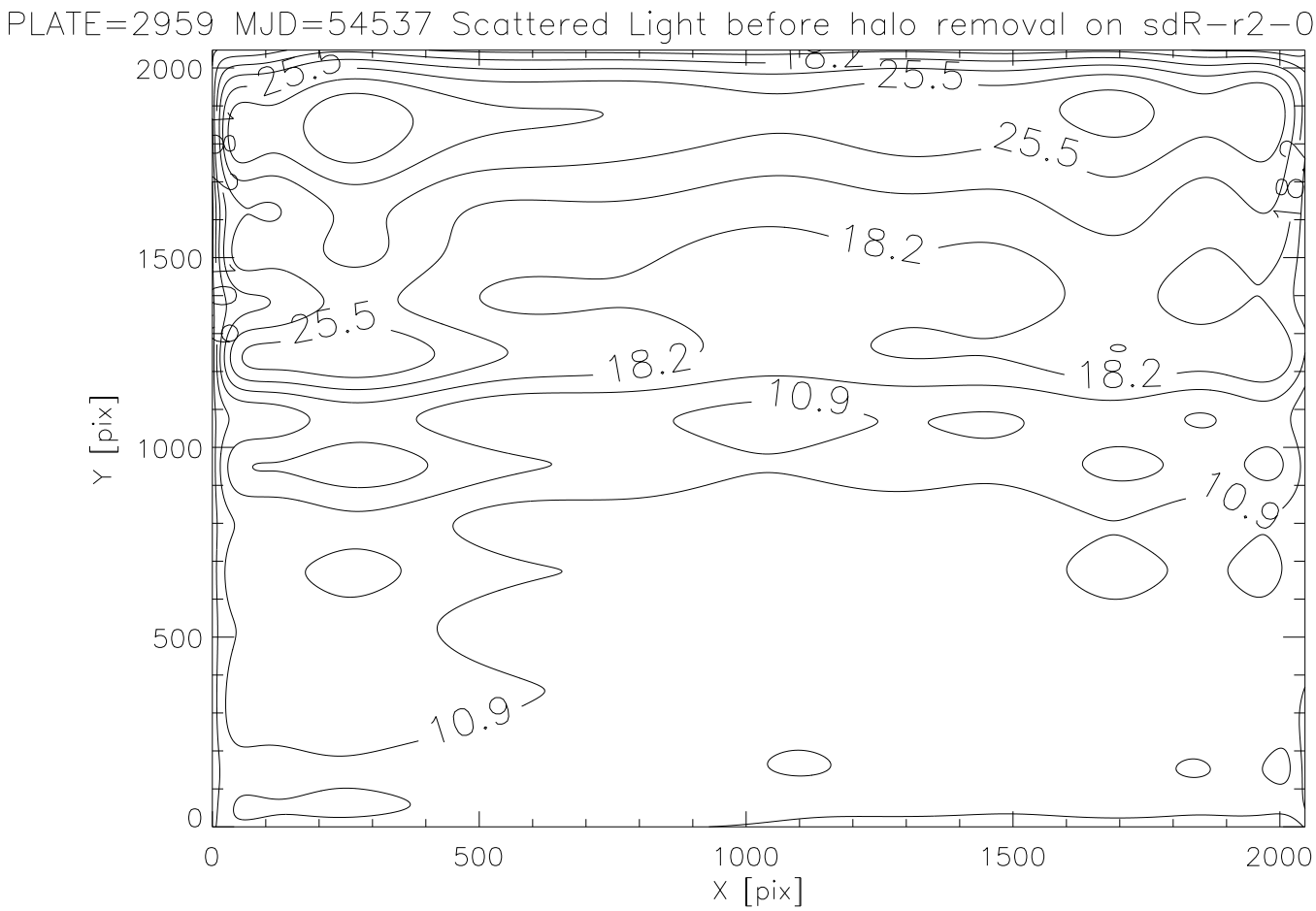

PLATE=2959 MJD=54537 sdR-r2-00050939.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

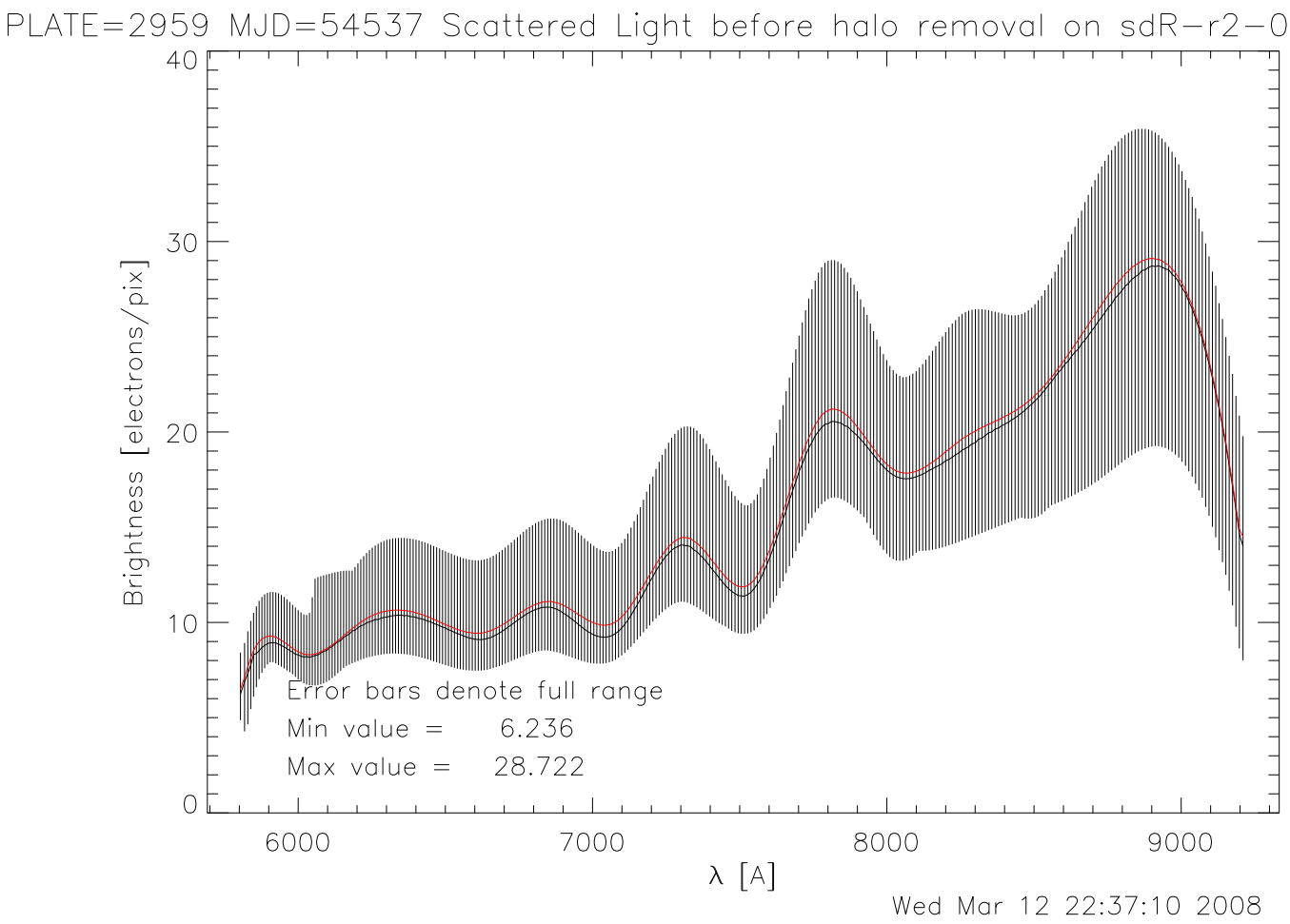

Number of sky fibers = 23
PLATE=2959 MJD=54537 sdR-r2-00050939.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

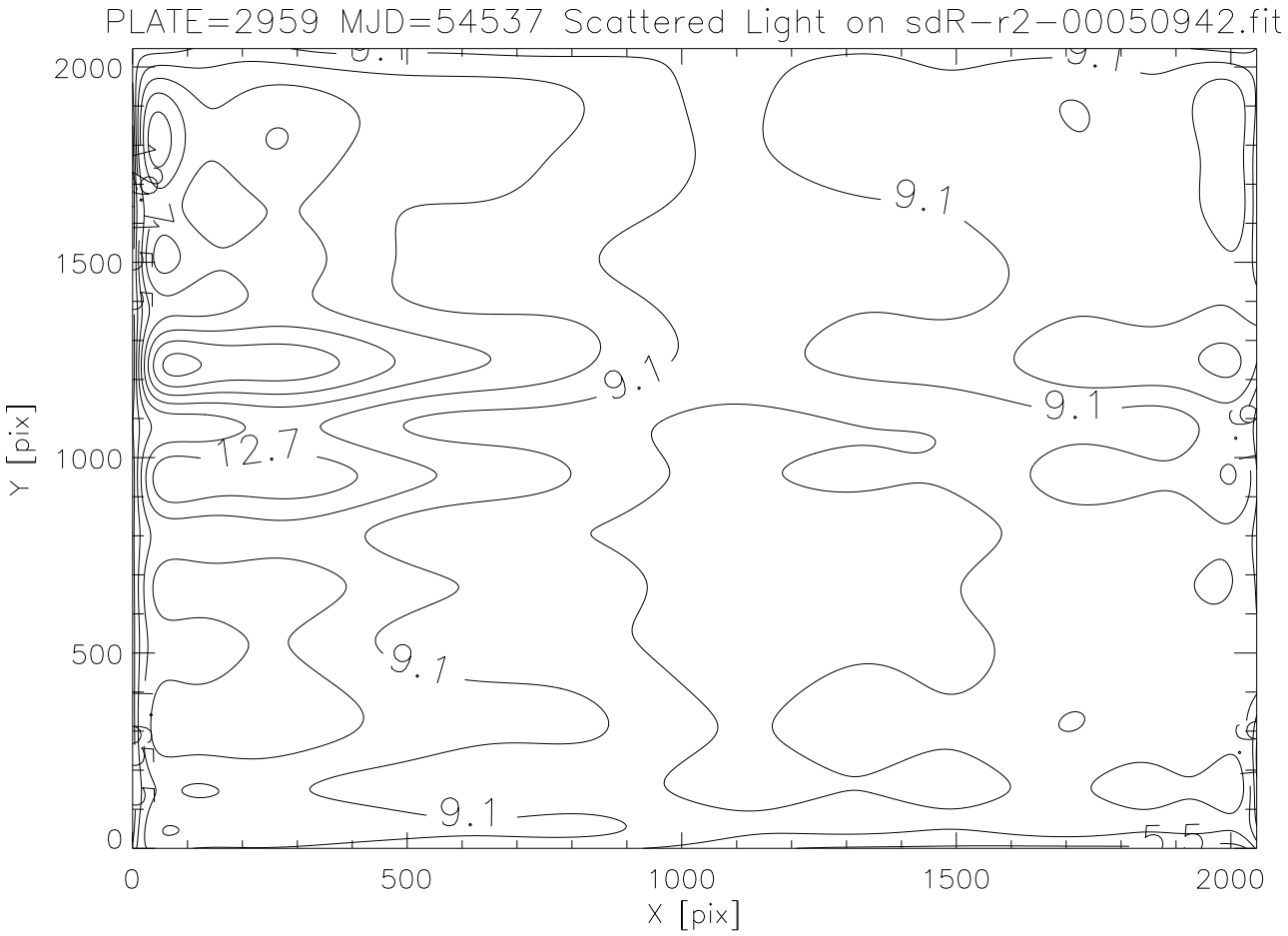

PLATE=2959 MJD=54537 sdR-r2-00050939.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.25 %
Fiber number
Focal Distance [mm]
Airmass

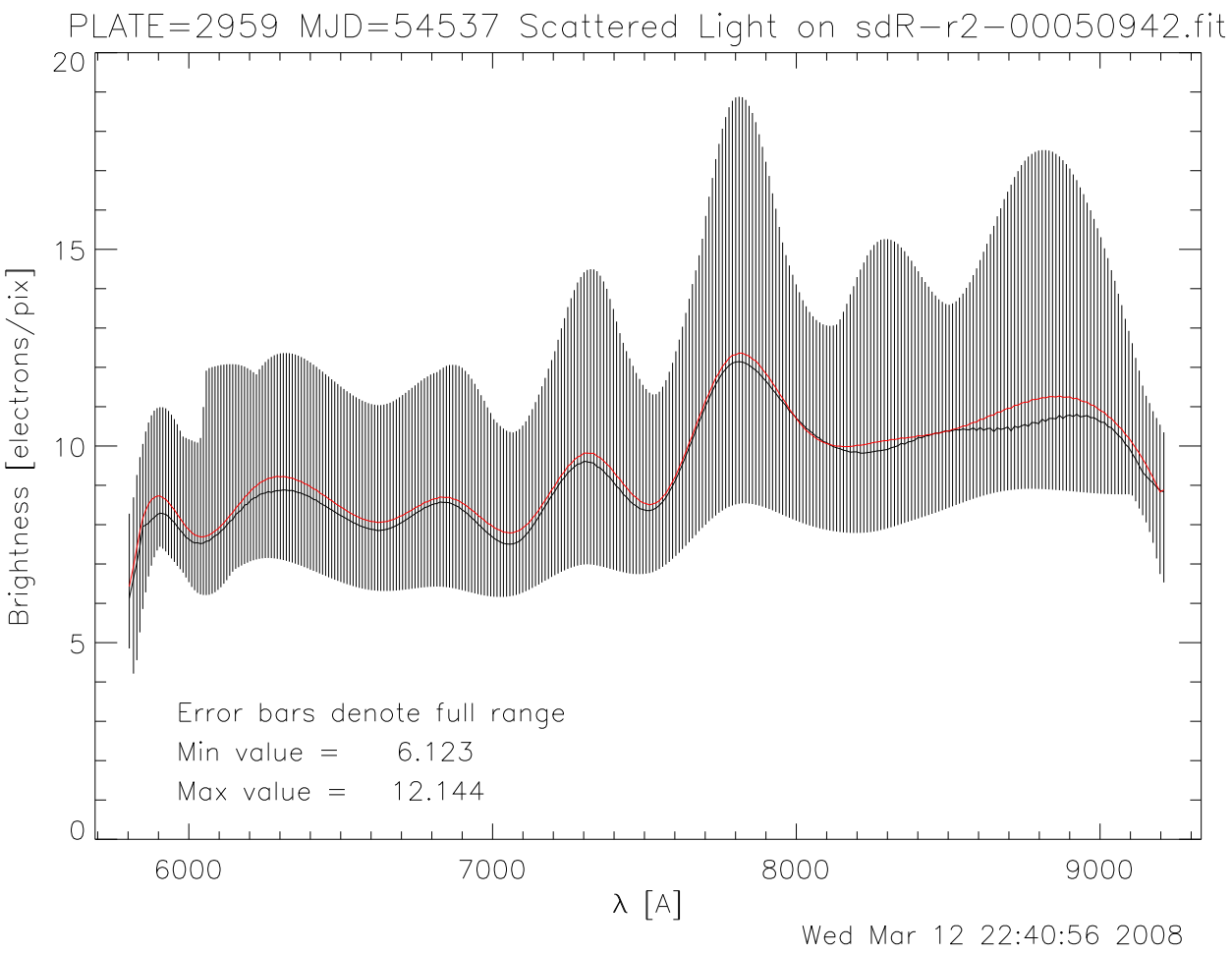

PLATE=2959 MJD=54537 sdR-r2-00050939.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.34 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

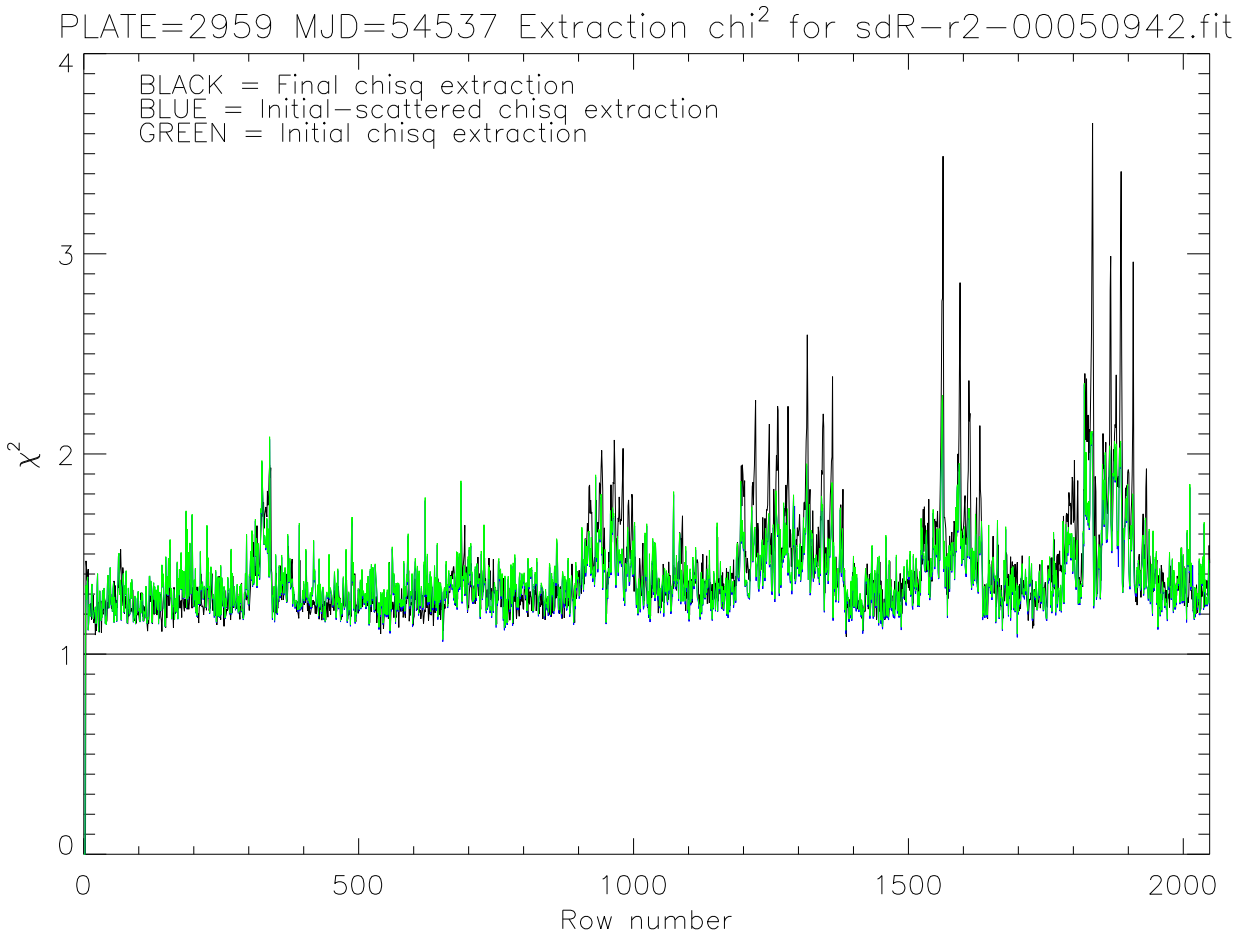

PLATE=2959 MJD=54537 Fiber−Flats for sdR−r2−00050940.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.313
Max value = 1.240
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 12 22:36:15 2008

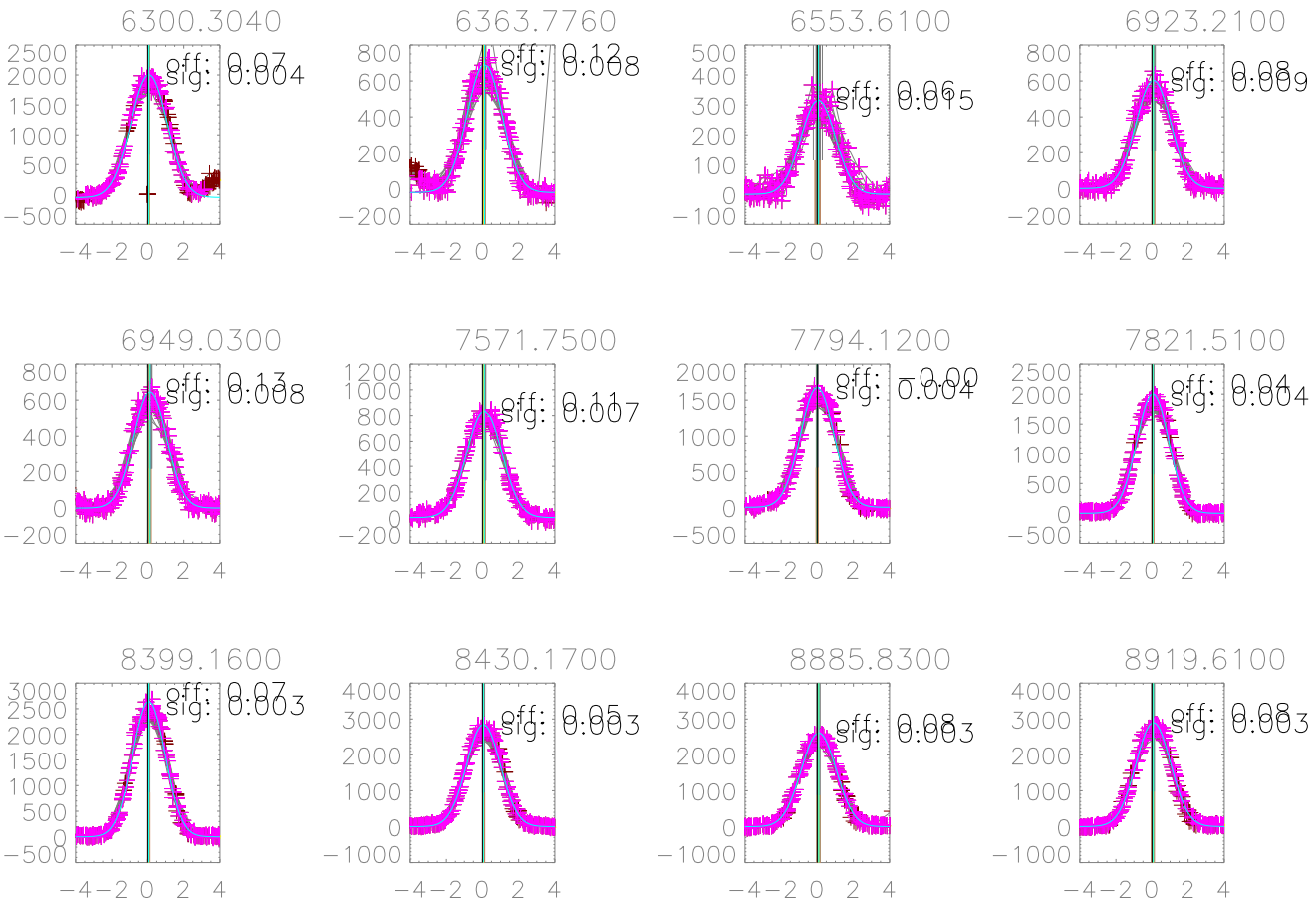

PLATE=2959 MJD=54537 Scattered Light before halo removal on sdR-r2-00050942.fi
25.5
18.2
10.9
Y [pix]
X [pix]
0
500
1000
1500
2000

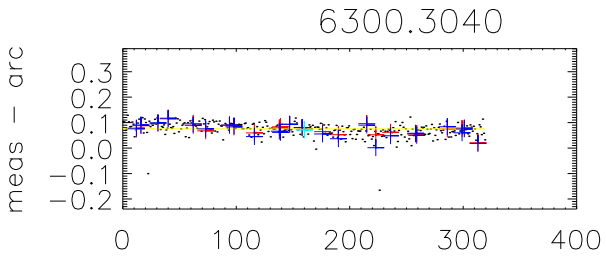

PLATE=2959 MJD=54537 Scattered Light before halo removal on sdR-r2-00050942.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.236
Max value = 28.722
Wed Mar 12 22:37:10 2008

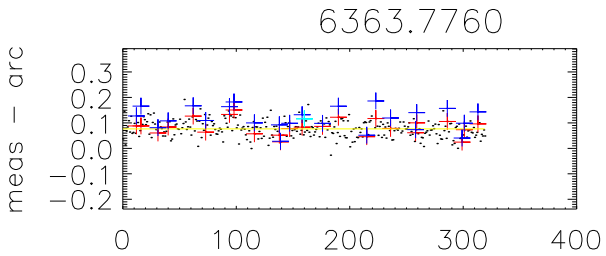

PLATE=2959 MJD=54537 Scattered Light on sdR-r2-00050942.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
9.1
12.7
5.5

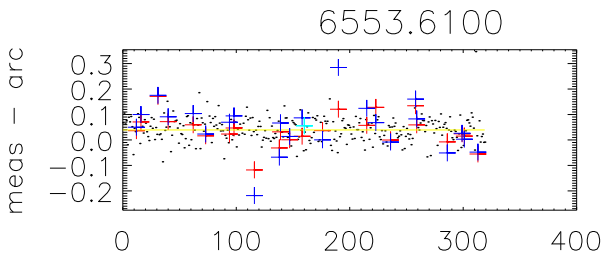

PLATE=2959 MJD=54537 Scattered Light on sdR-r2-00050942.fit
Brightness [electrons/pix]
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 6.123
Max value = 12.144
Wed Mar 12 22:40:56 2008

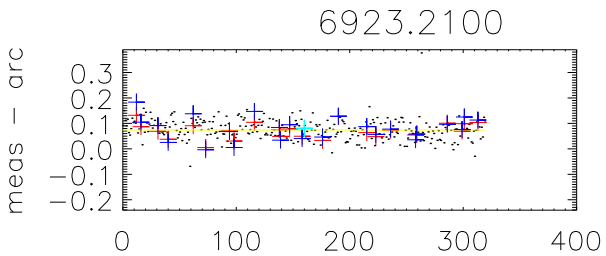

PLATE=2959 MJD=54537 Extraction chi^2 for sdR−r2−00050942.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

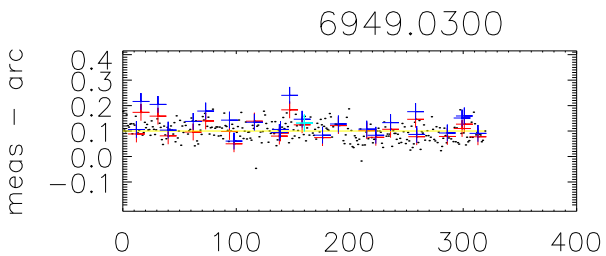

6300.3040
off: 0.07
sig: 0.004
6363.7760
off: 0.12
sig: 0.008
6553.6100
off: 0.06
sig: 0.015
6923.2100
off: 0.08
sig: 0.009
6949.0300
off: 0.13
sig: 0.008
7571.7500
off: 0.11
sig: 0.007
7794.1200
off: −0.00
sig: 0.004
7821.5100
off: 0.04
sig: 0.004
8399.1600
off: 0.07
sig: 0.003
8430.1700
off: 0.05
sig: 0.003
8885.8300
off: 0.08
sig: 0.003
8919.6100
off: 0.08
sig: 0.003

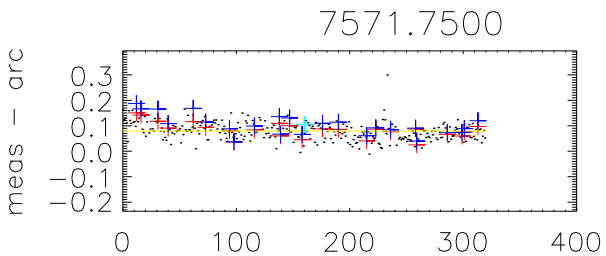

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

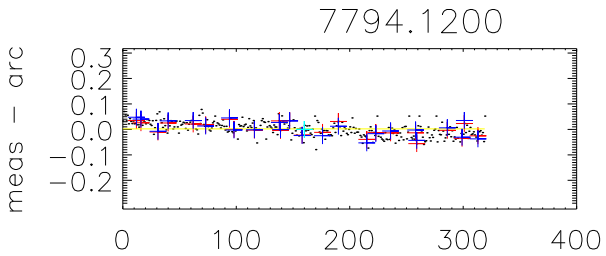

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

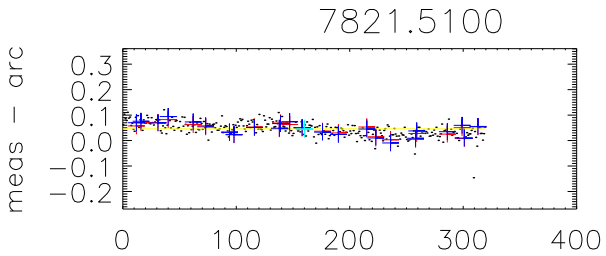

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

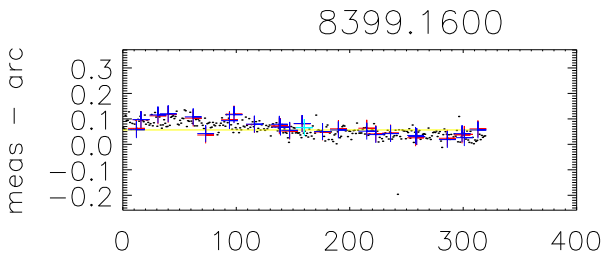

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

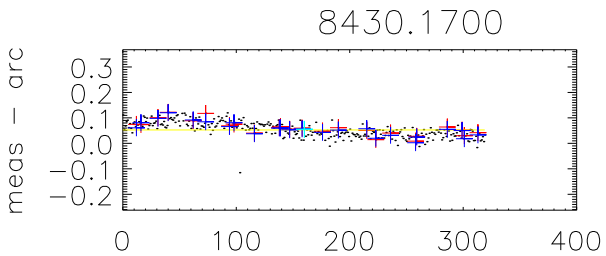

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

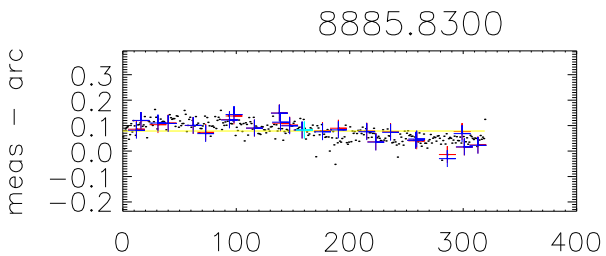

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

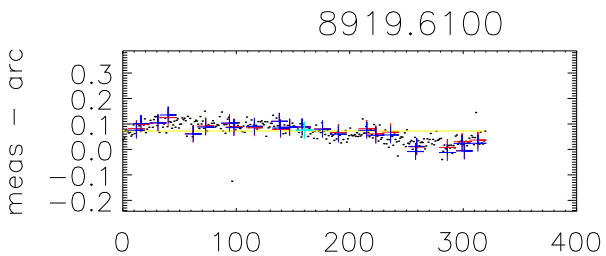

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

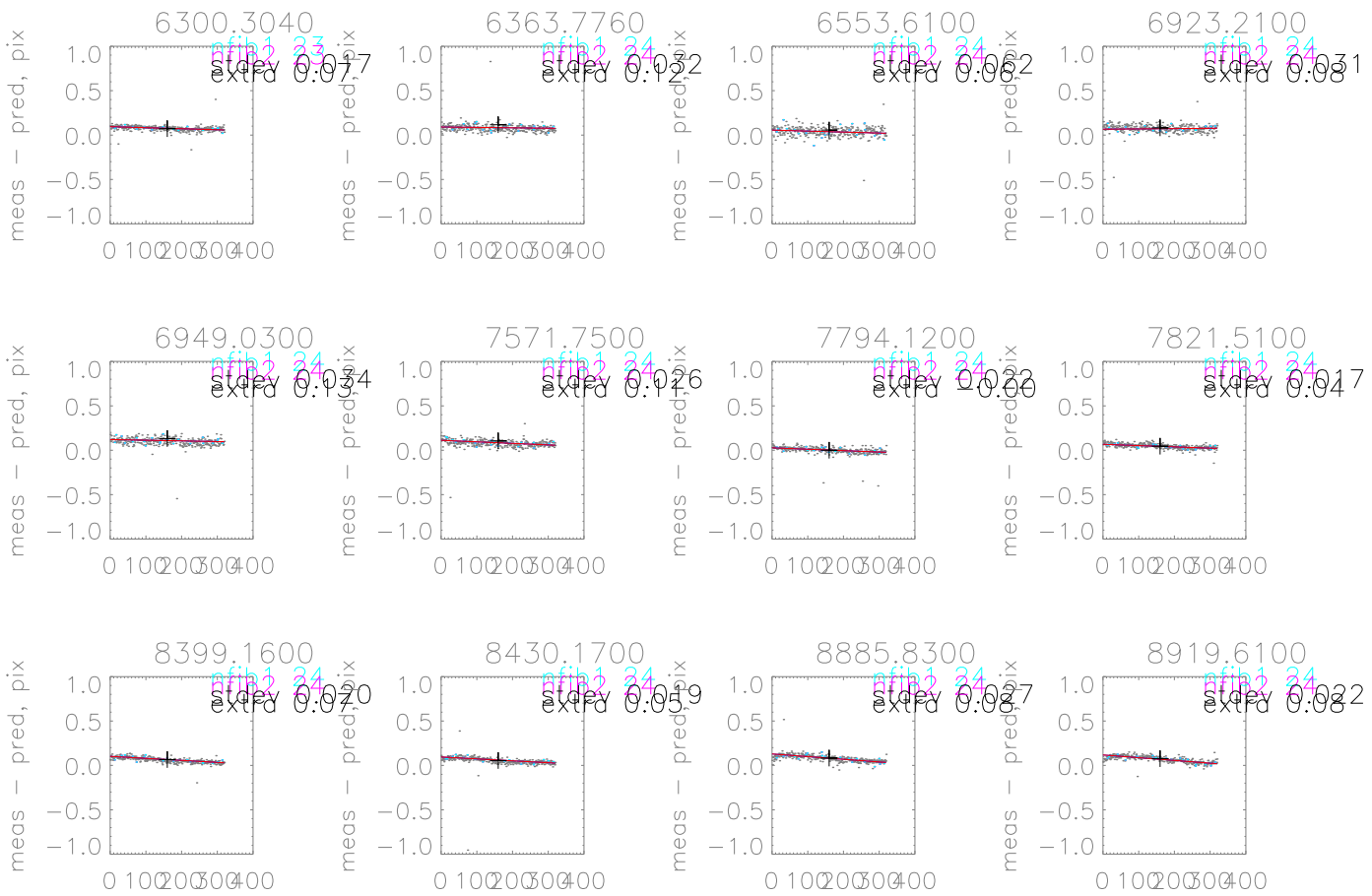

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

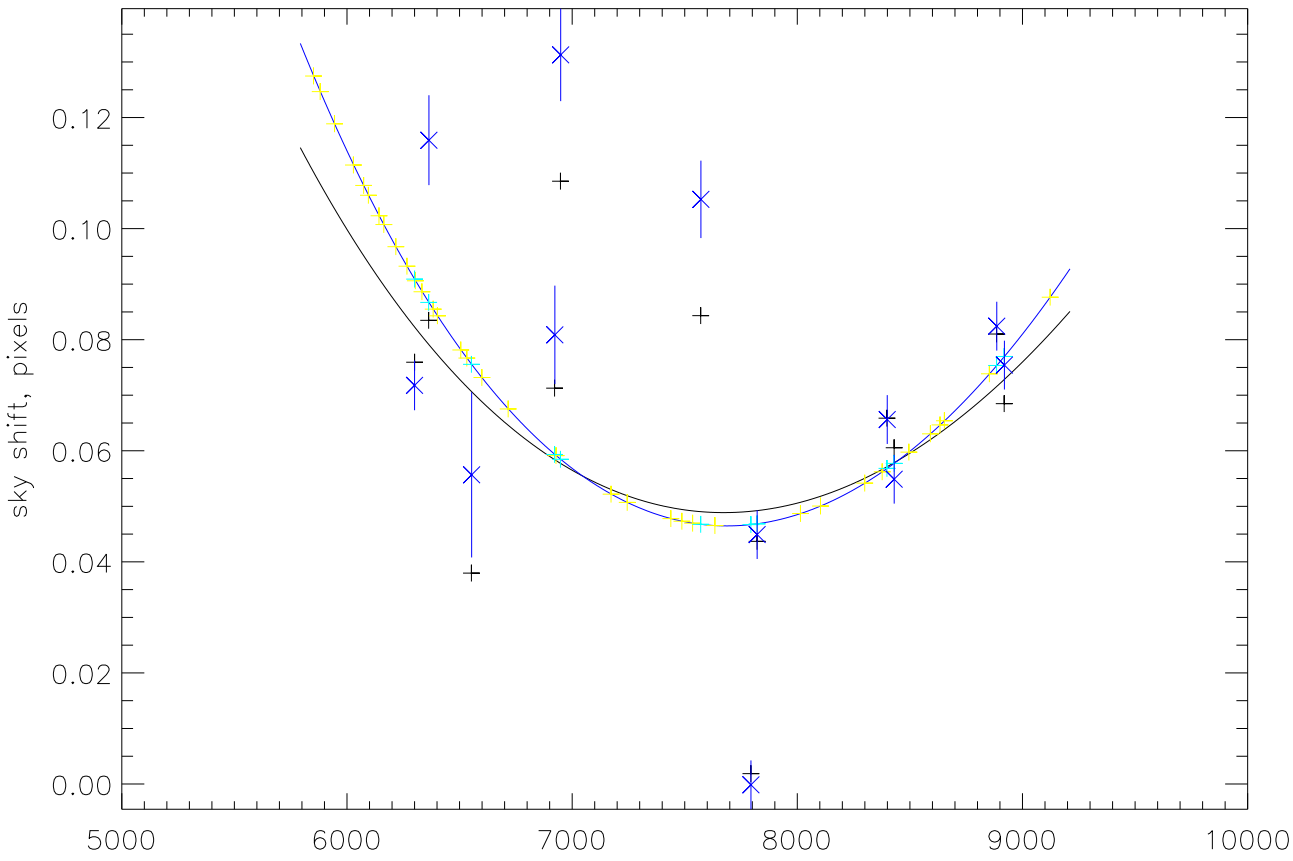

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

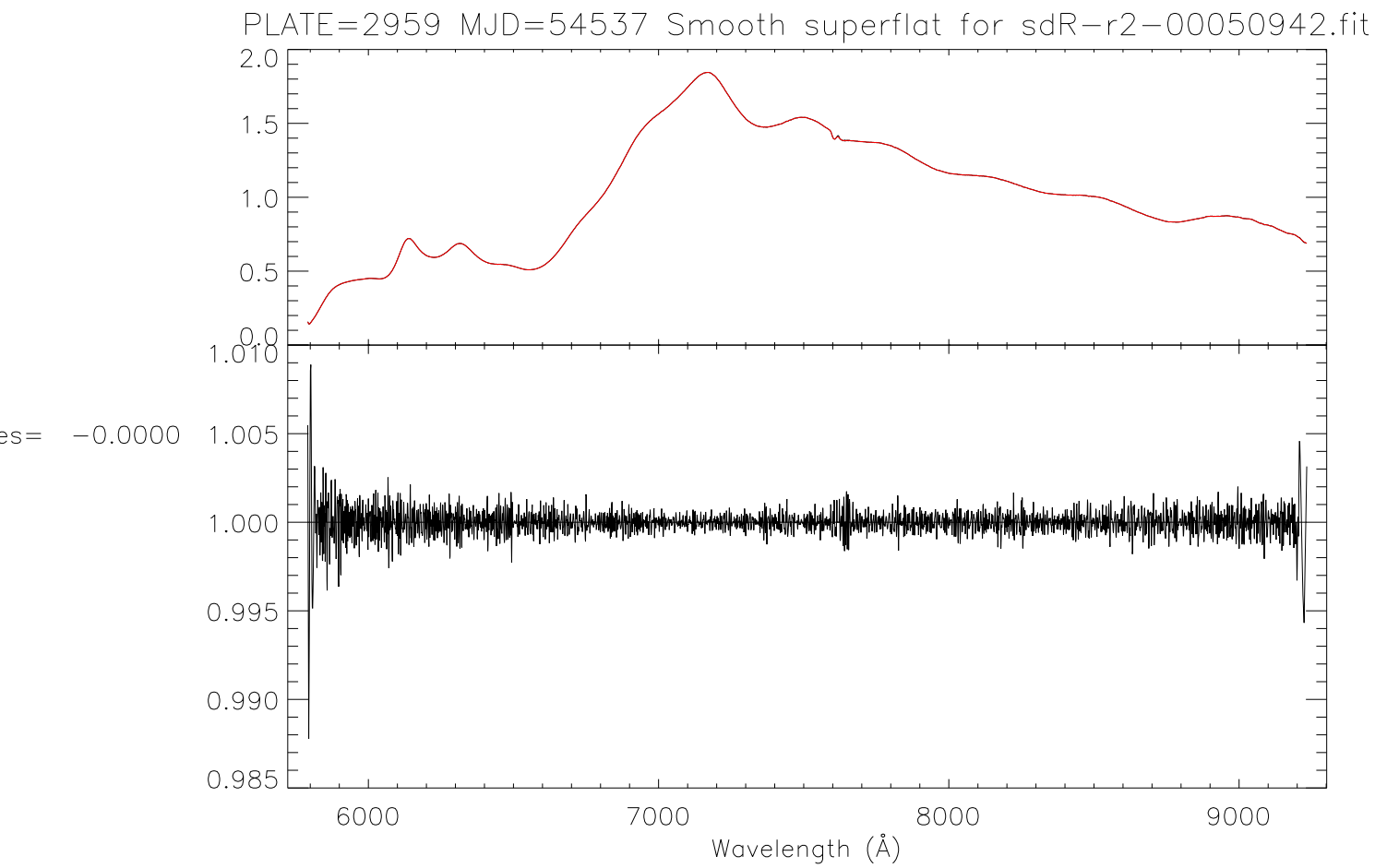

8430.1700
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

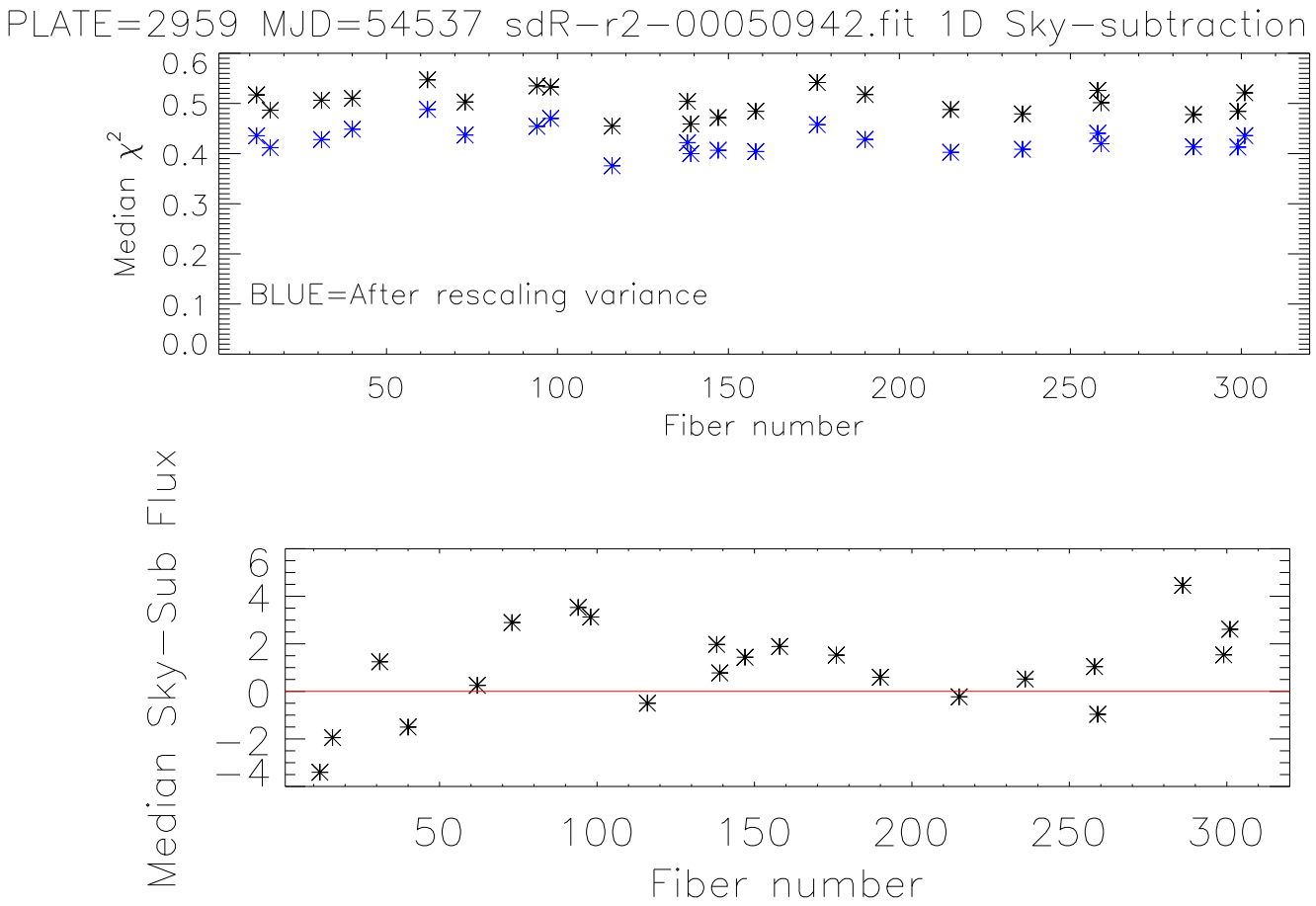

8885.8300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

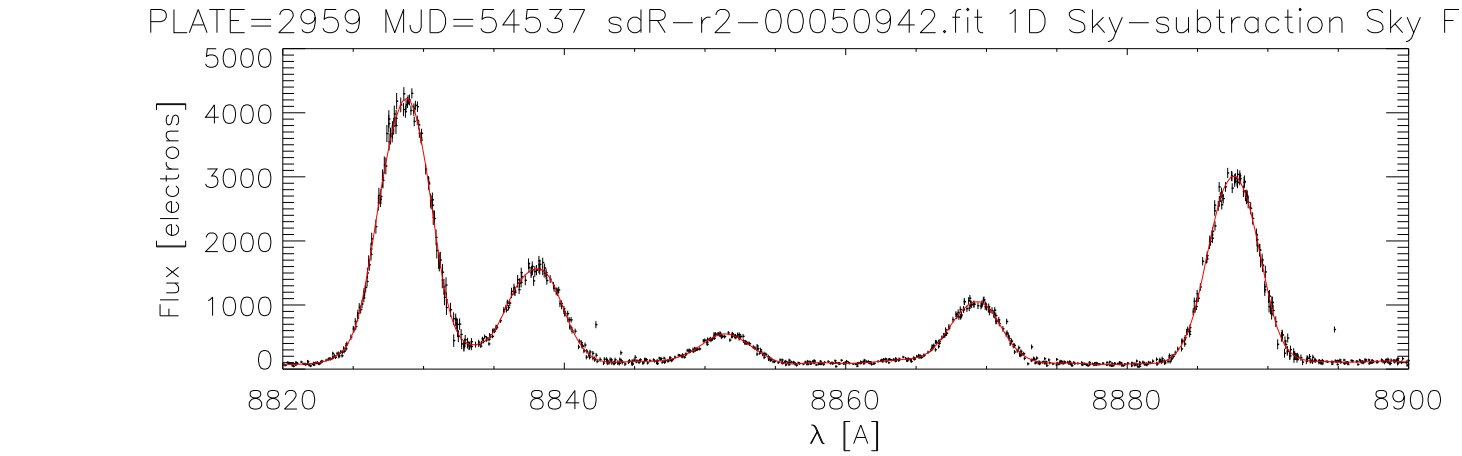

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

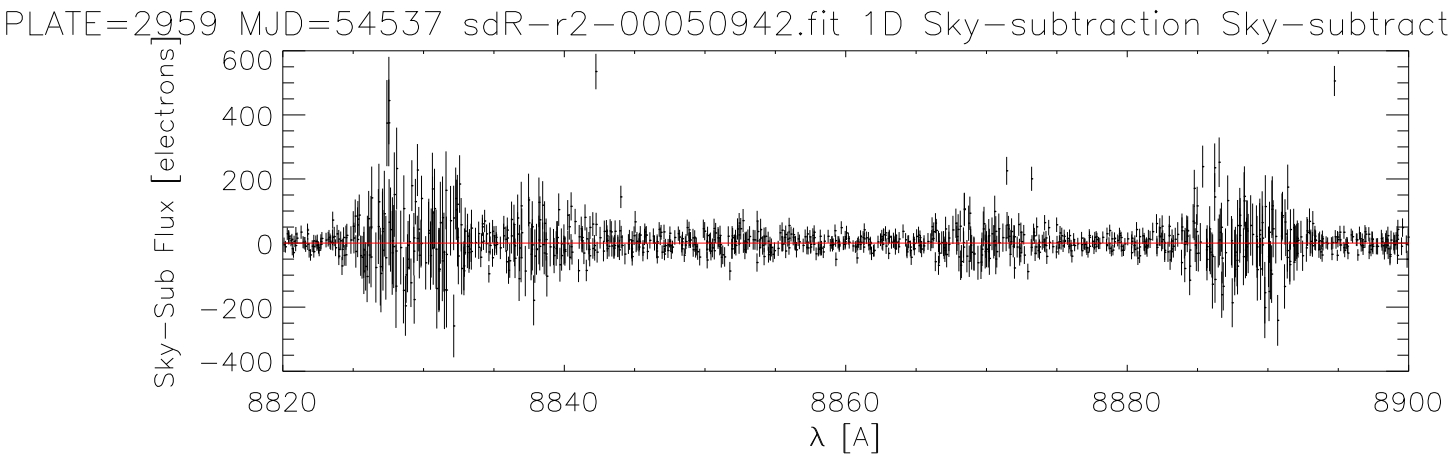

6300.3040
mfib1 23
mfib2 24
stdev 0.017
extra 0.07
6363.7760
mfib1 24
mfib2 24
stdev 0.032
extra 0.12
6553.6100
mfib1 24
mfib2 24
stdev 0.062
extra 0.06
6923.2100
mfib1 24
mfib2 24
stdev 0.031
extra 0.08
6949.0300
mfib1 24
mfib2 24
stdev 0.034
extra 0.13
7571.7500
mfib1 24
mfib2 24
stdev 0.026
extra 0.11
7794.1200
mfib1 24
mfib2 24
stdev 0.032
extra −0.00
7821.5100
mfib1 24
mfib2 24
stdev 0.017
extra 0.04
8399.1600
mfib1 24
mfib2 24
stdev 0.020
extra 0.07
8430.1700
mfib1 24
mfib2 24
stdev 0.019
extra 0.05
8885.8300
mfib1 24
mfib2 24
stdev 0.027
extra 0.08
8919.6100
mfib1 24
mfib2 24
stdev 0.022
extra 0.08
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

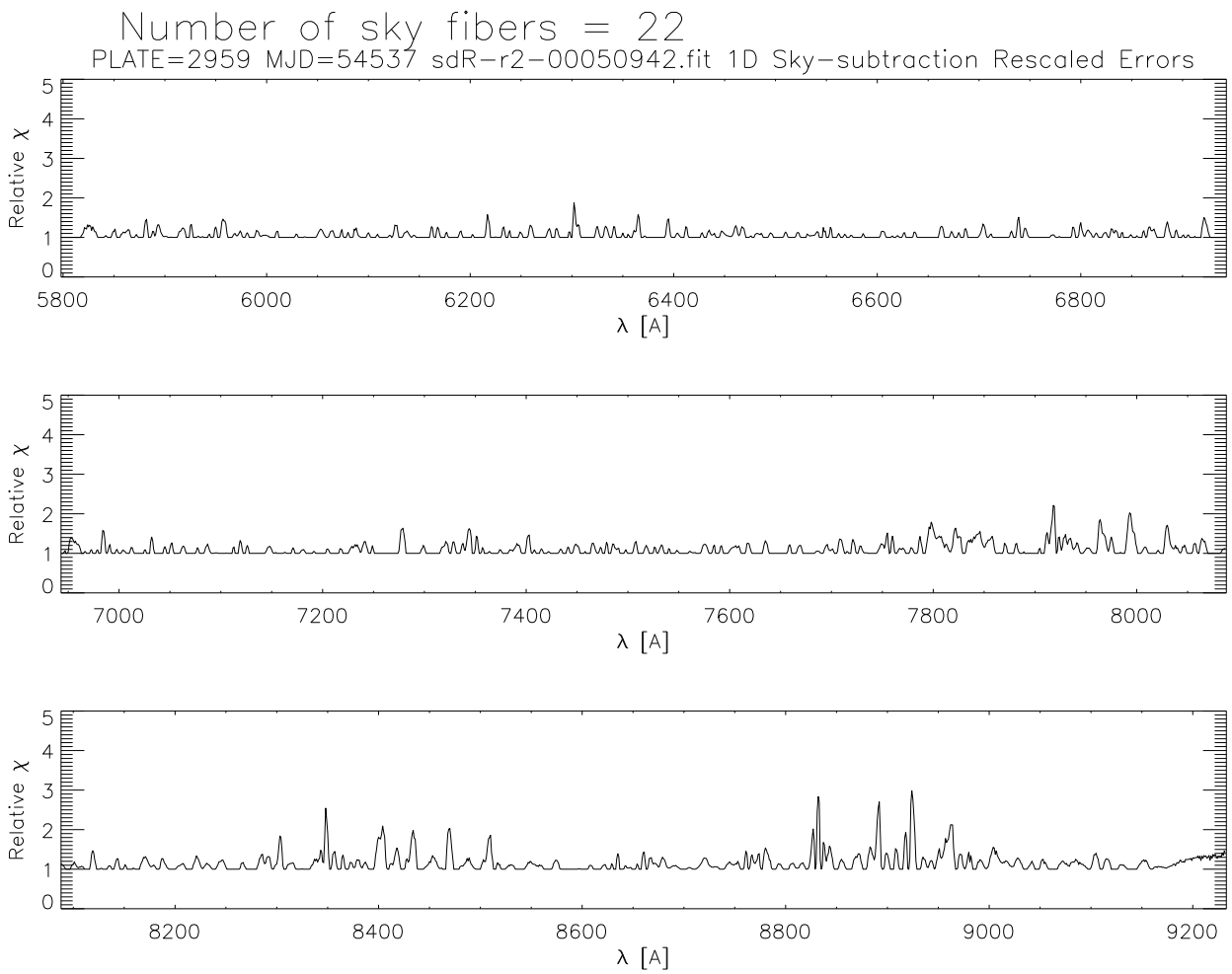

sky shift, pixels
0.00
0.02
0.04
0.06
0.08
0.10
0.12
5000
6000
7000
8000
9000
10000

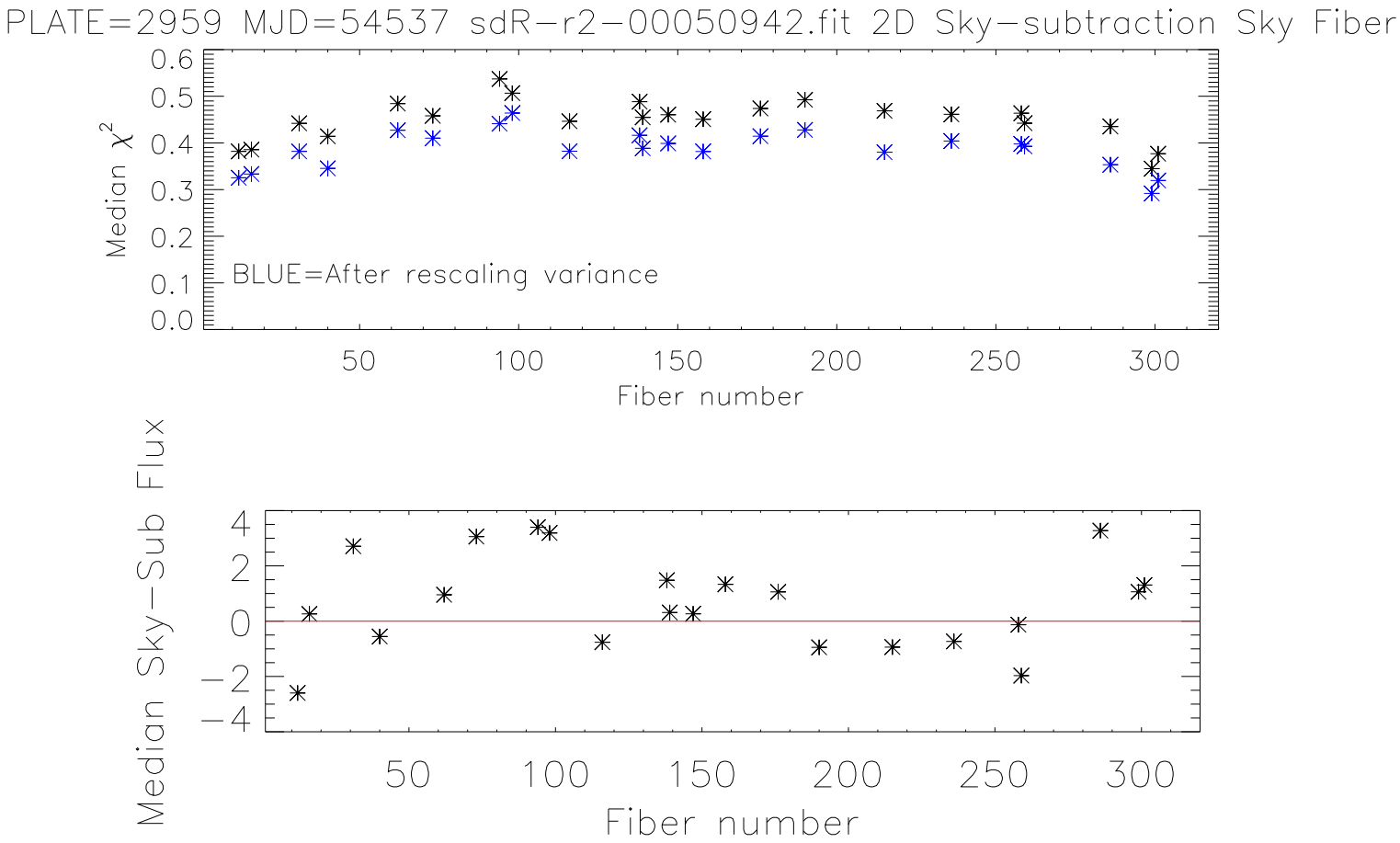

PLATE=2959 MJD=54537 Smooth superflat for sdR-r2-00050942.fit
2.0
1.5
1.0
0.5
0.0
es= −0.0000
1.010
1.005
1.000
0.995
0.990
0.985
6000
7000
8000
9000
Wavelength (Å)

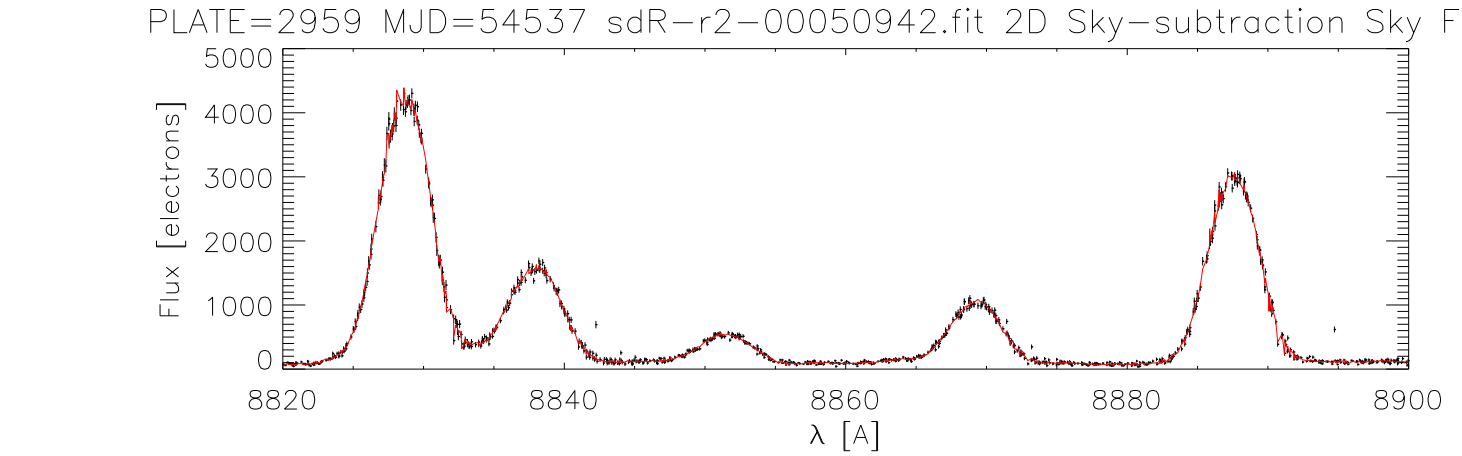

PLATE=2959 MJD=54537 sdR-r2-00050942.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

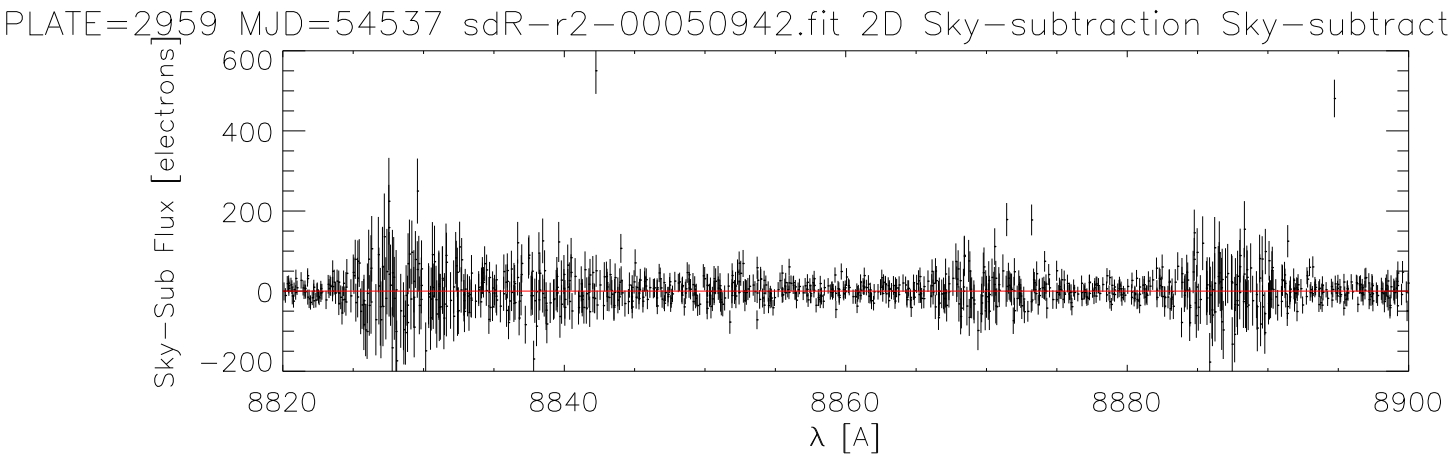

PLATE=2959 MJD=54537 sdR-r2-00050942.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

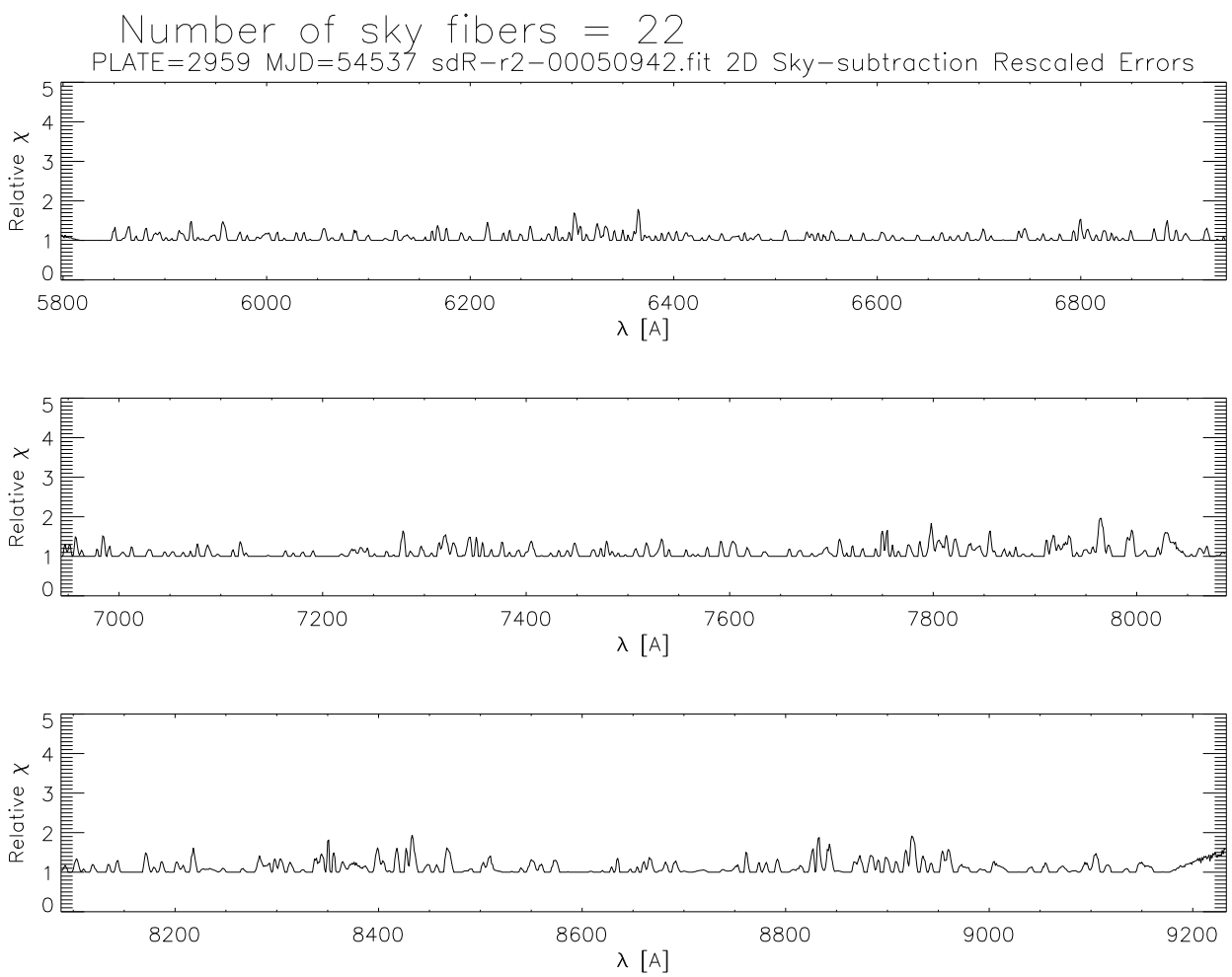

PLATE=2959 MJD=54537 sdR-r2-00050942.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

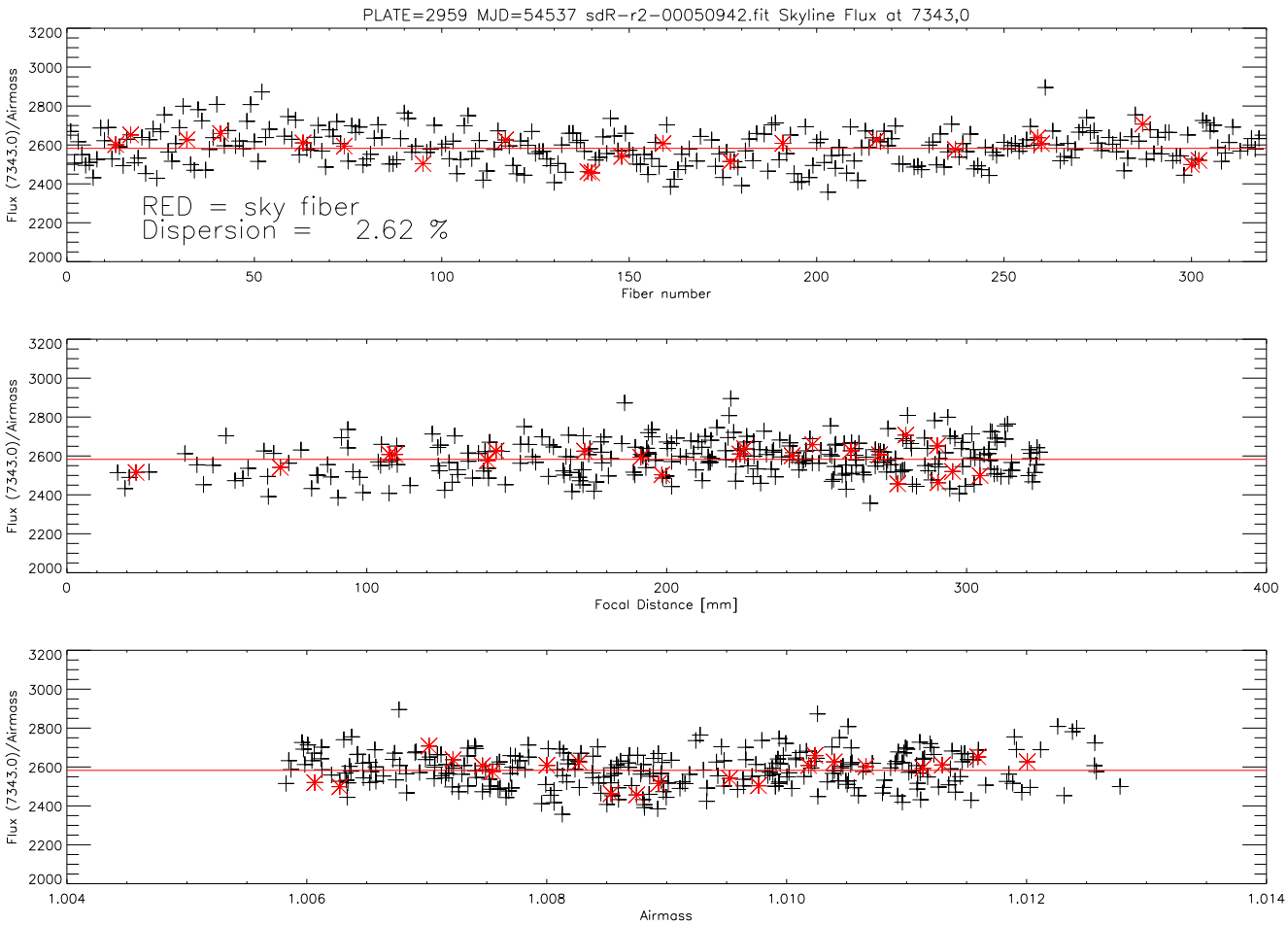

Number of sky fibers = 22
PLATE=2959 MJD=54537 sdR-r2-00050942.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

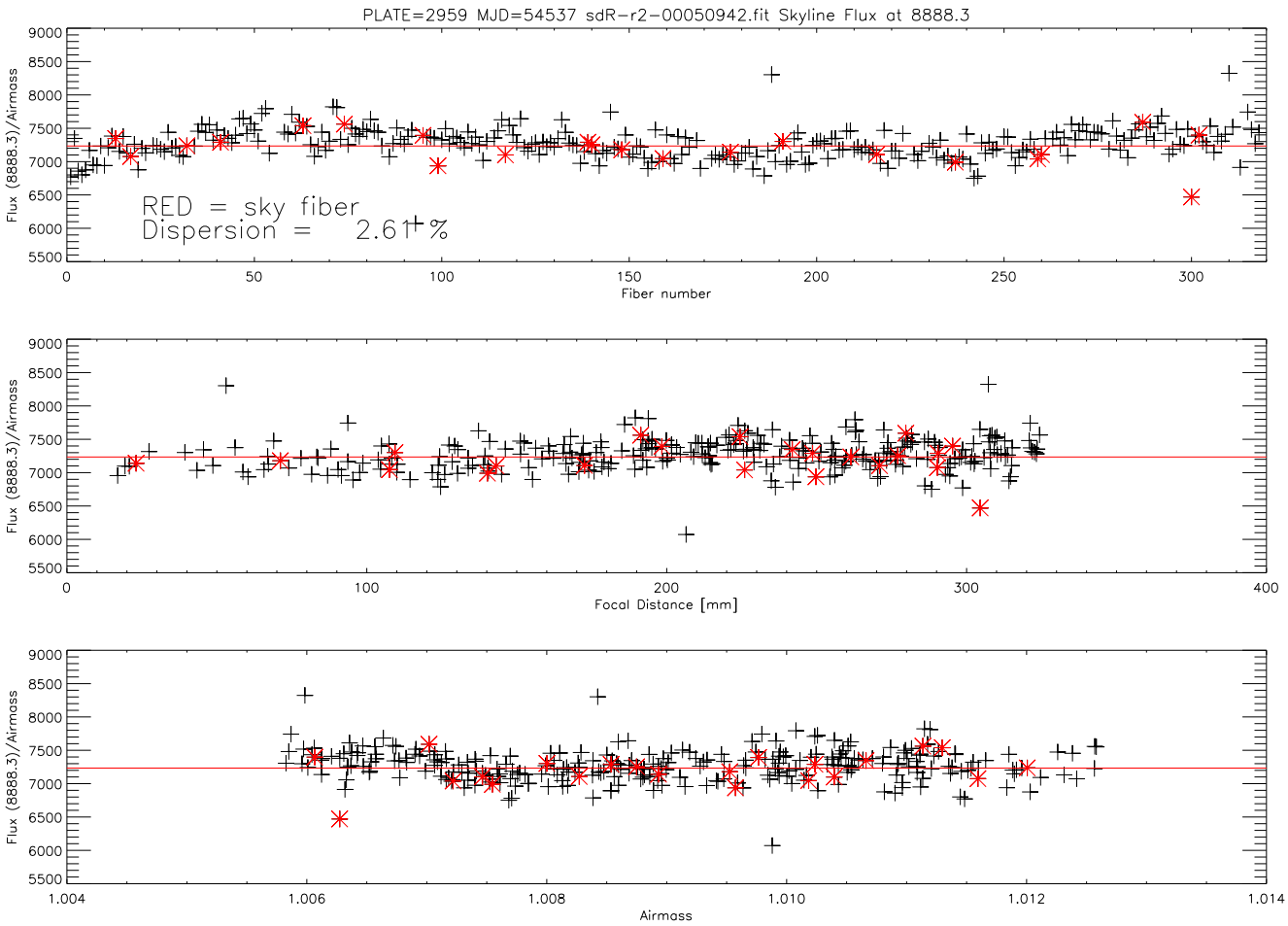

PLATE=2959 MJD=54537 sdR-r2-00050942.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
50
100
150
200
250
300
Fiber number

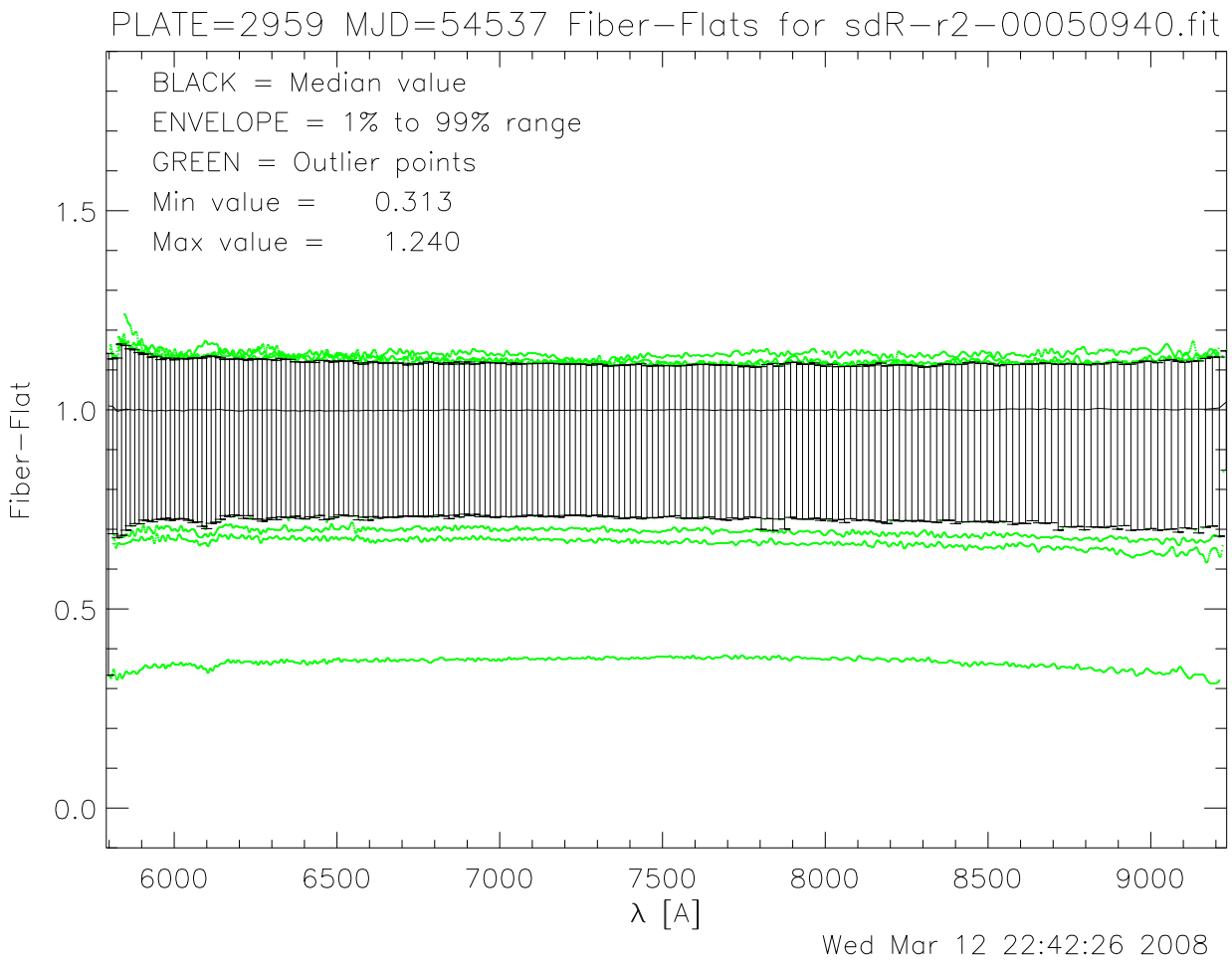

PLATE=2959 MJD=54537 sdR-r2-00050942.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

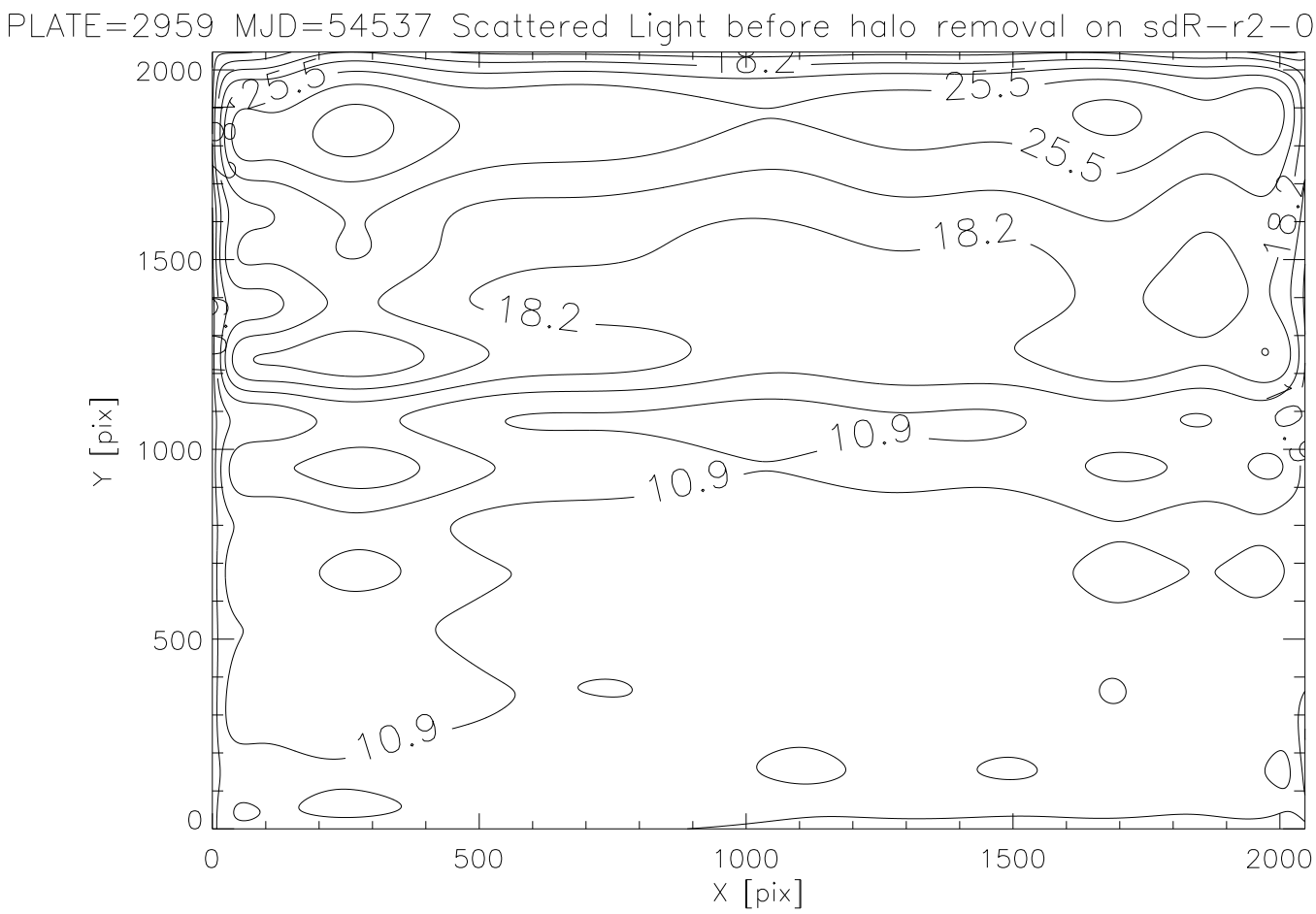

PLATE=2959 MJD=54537 sdR-r2-00050942.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

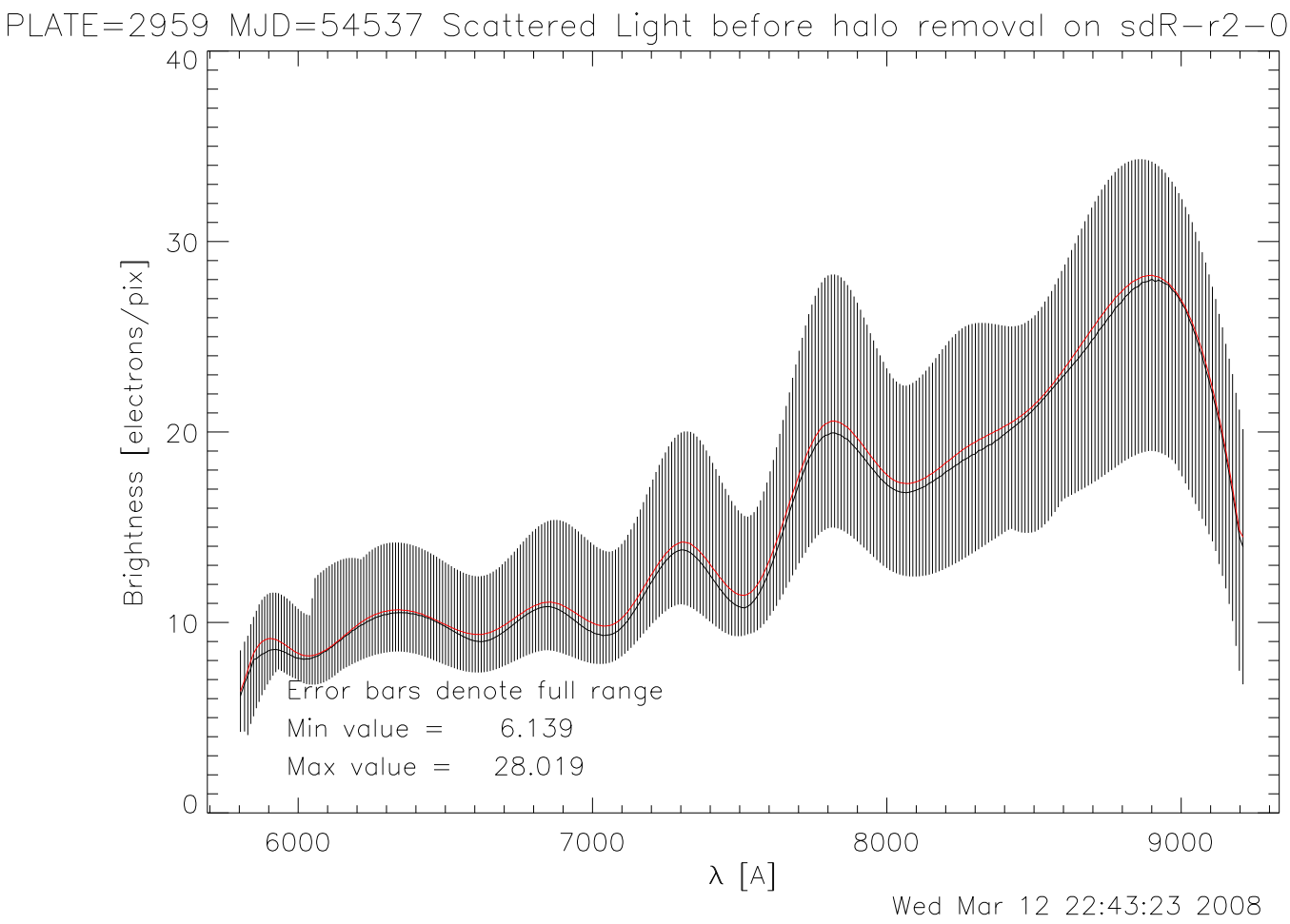

Number of sky fibers = 22
PLATE=2959 MJD=54537 sdR-r2-00050942.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

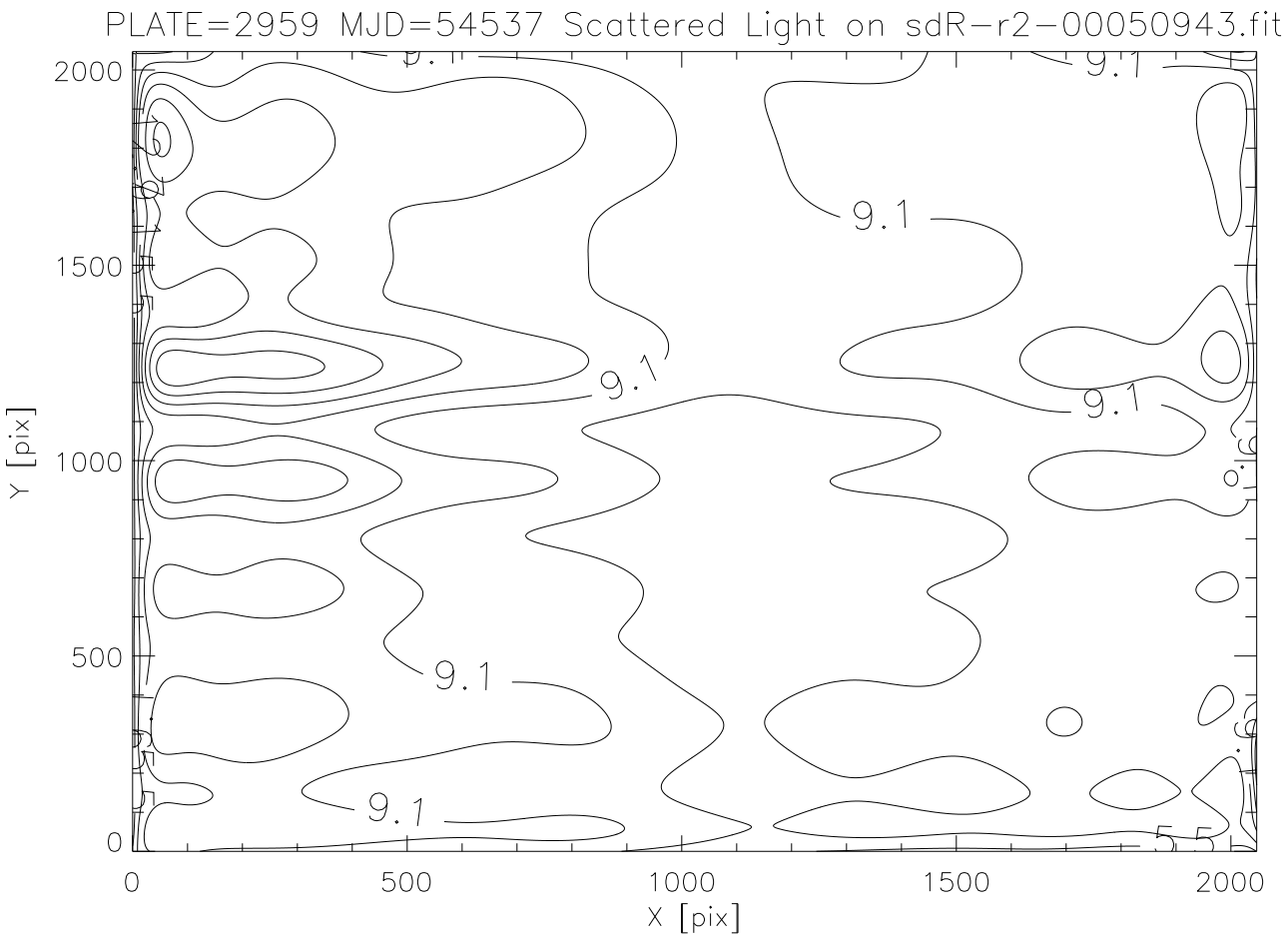

PLATE=2959 MJD=54537 sdR-r2-00050942.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.62 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

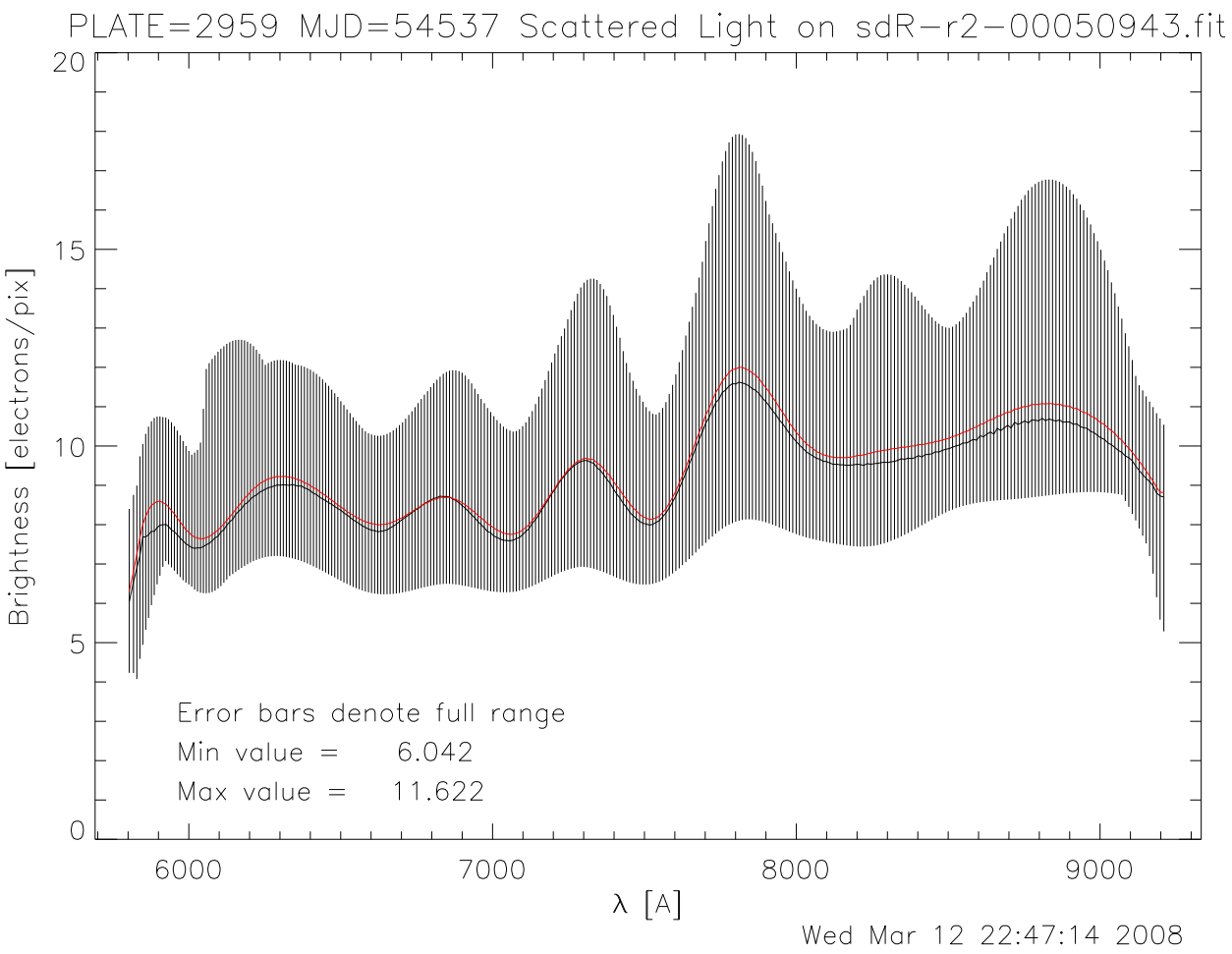

PLATE=2959 MJD=54537 sdR-r2-00050942.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.61 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

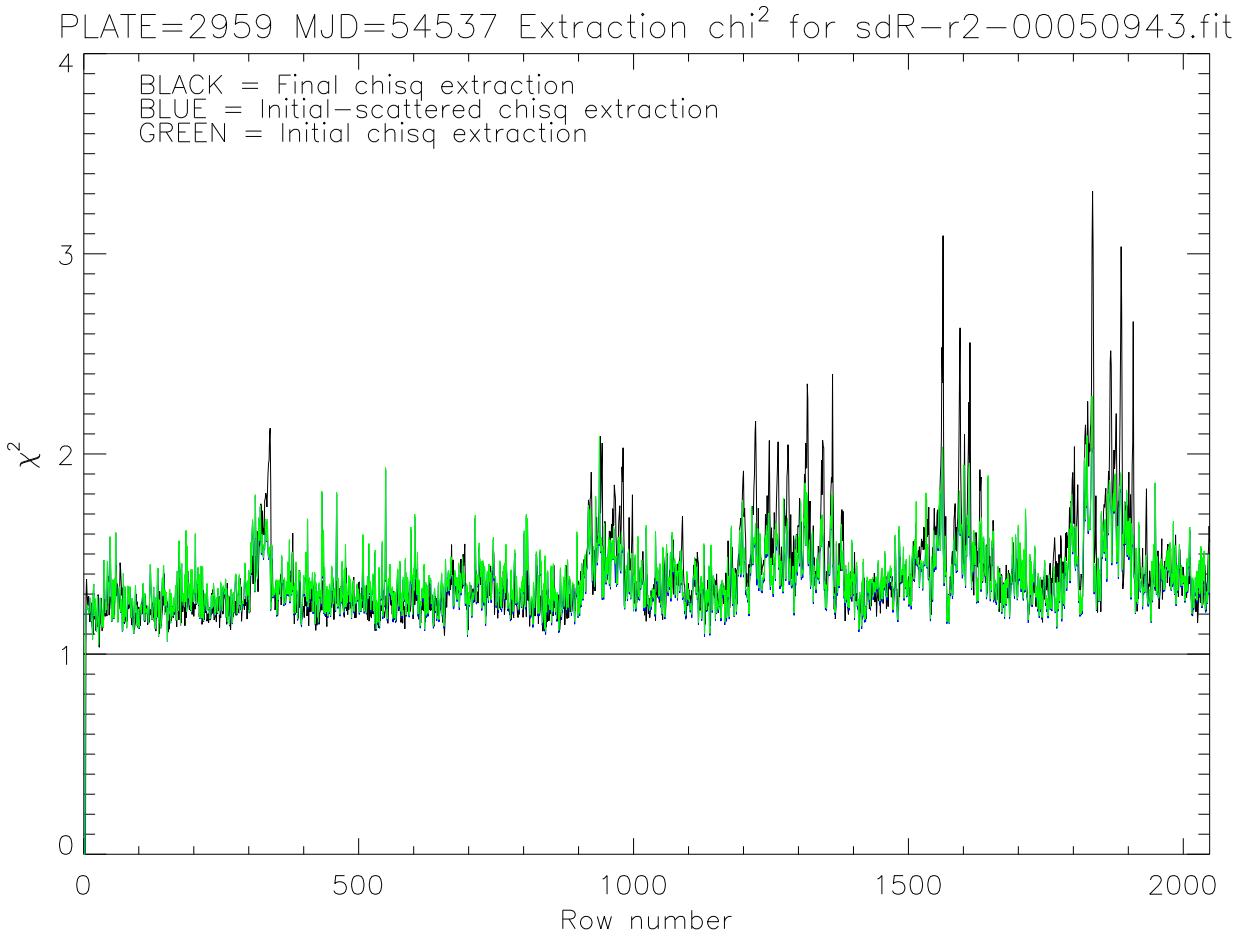

PLATE=2959 MJD=54537 Fiber−Flats for sdR−r2−00050940.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.313
Max value = 1.240
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 12 22:42:26 2008

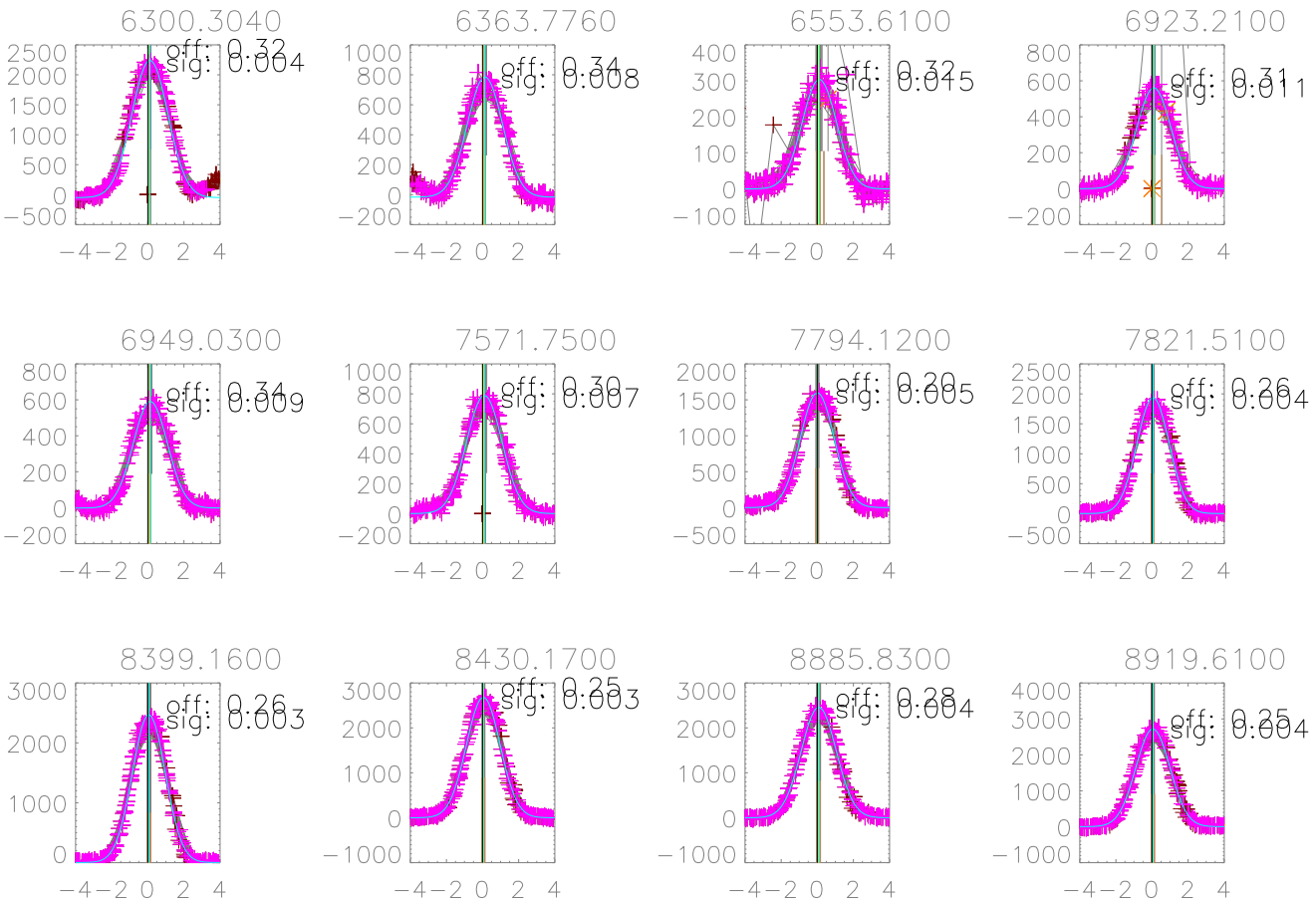

PLATE=2959 MJD=54537 Scattered Light before halo removal on sdR−r2−00050943.fi
25.5
18.2
10.9
Y [pix]
X [pix]
0
500
1000
1500
2000

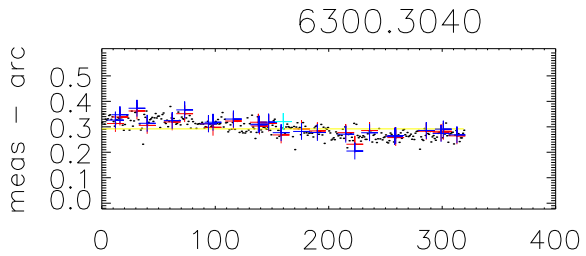

PLATE=2959 MJD=54537 Scattered Light before halo removal on sdR-r2-00050943.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.139
Max value = 28.019
Wed Mar 12 22:43:23 2008

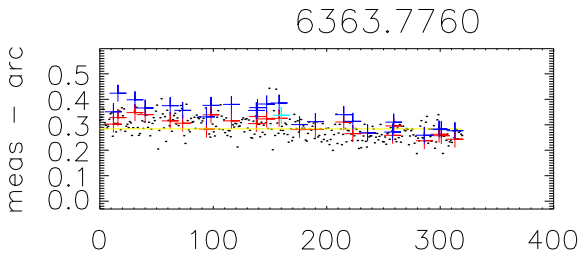

PLATE=2959 MJD=54537 Scattered Light on sdR-r2-00050943.fit
9.1
9.1
9.1
9.1
9.1
9.1
5.5
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

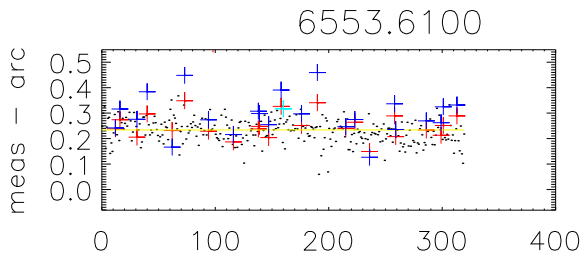

PLATE=2959 MJD=54537 Scattered Light on sdR-r2-00050943.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.042
Max value = 11.622
Wed Mar 12 22:47:14 2008

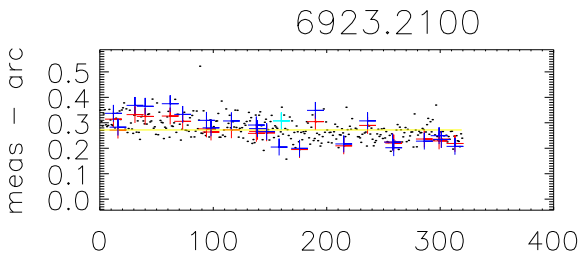

PLATE=2959 MJD=54537 Extraction chi^2 for sdR−r2−00050943.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

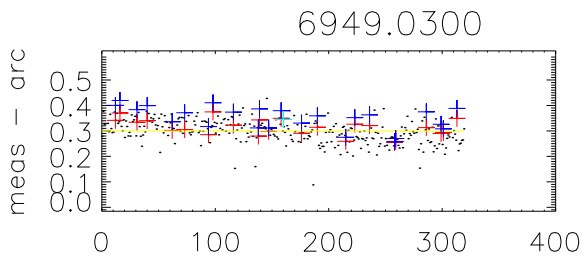

6300.3040
off: 0.32
sig: 0.004
6363.7760
off: 0.34
sig: 0.008
6553.6100
off: 0.32
sig: 0.015
6923.2100
off: 0.31
sig: 0.011
6949.0300
off: 0.34
sig: 0.009
7571.7500
off: 0.30
sig: 0.007
7794.1200
off: 0.20
sig: 0.005
7821.5100
off: 0.26
sig: 0.004
8399.1600
off: 0.26
sig: 0.003
8430.1700
off: 0.25
sig: 0.003
8885.8300
off: 0.28
sig: 0.004
8919.6100
off: 0.25
sig: 0.004

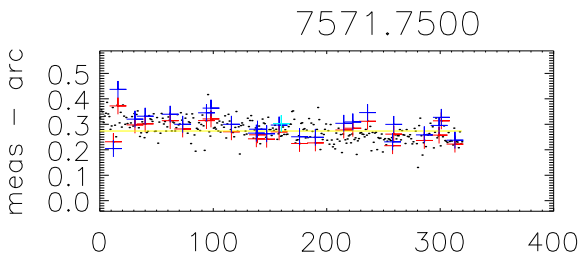

6300.3040
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

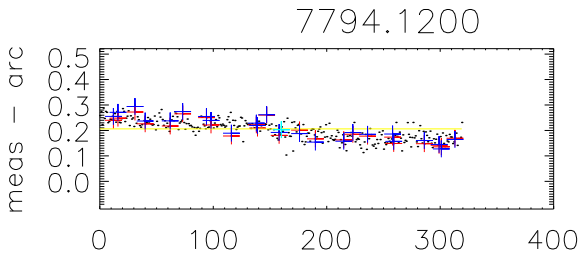

6363.7760
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

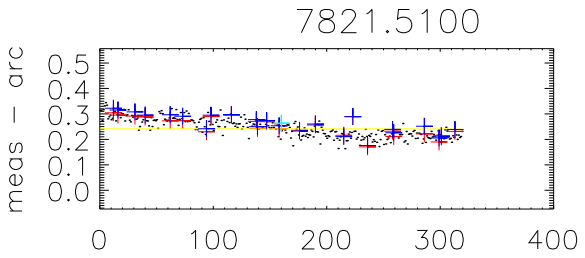

6553.6100
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

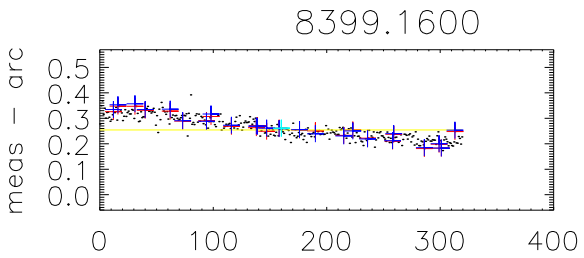

6923.2100
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

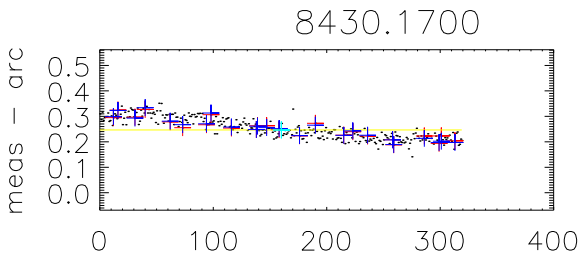

6949.0300
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

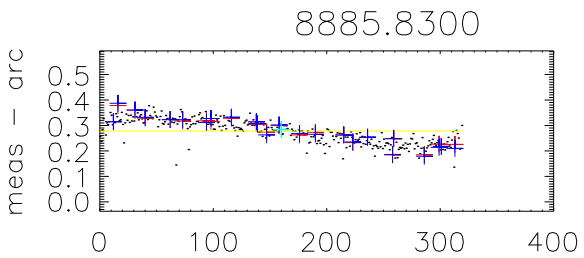

7571.7500
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

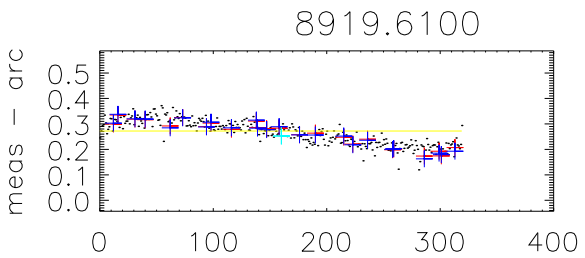

7794.1200
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

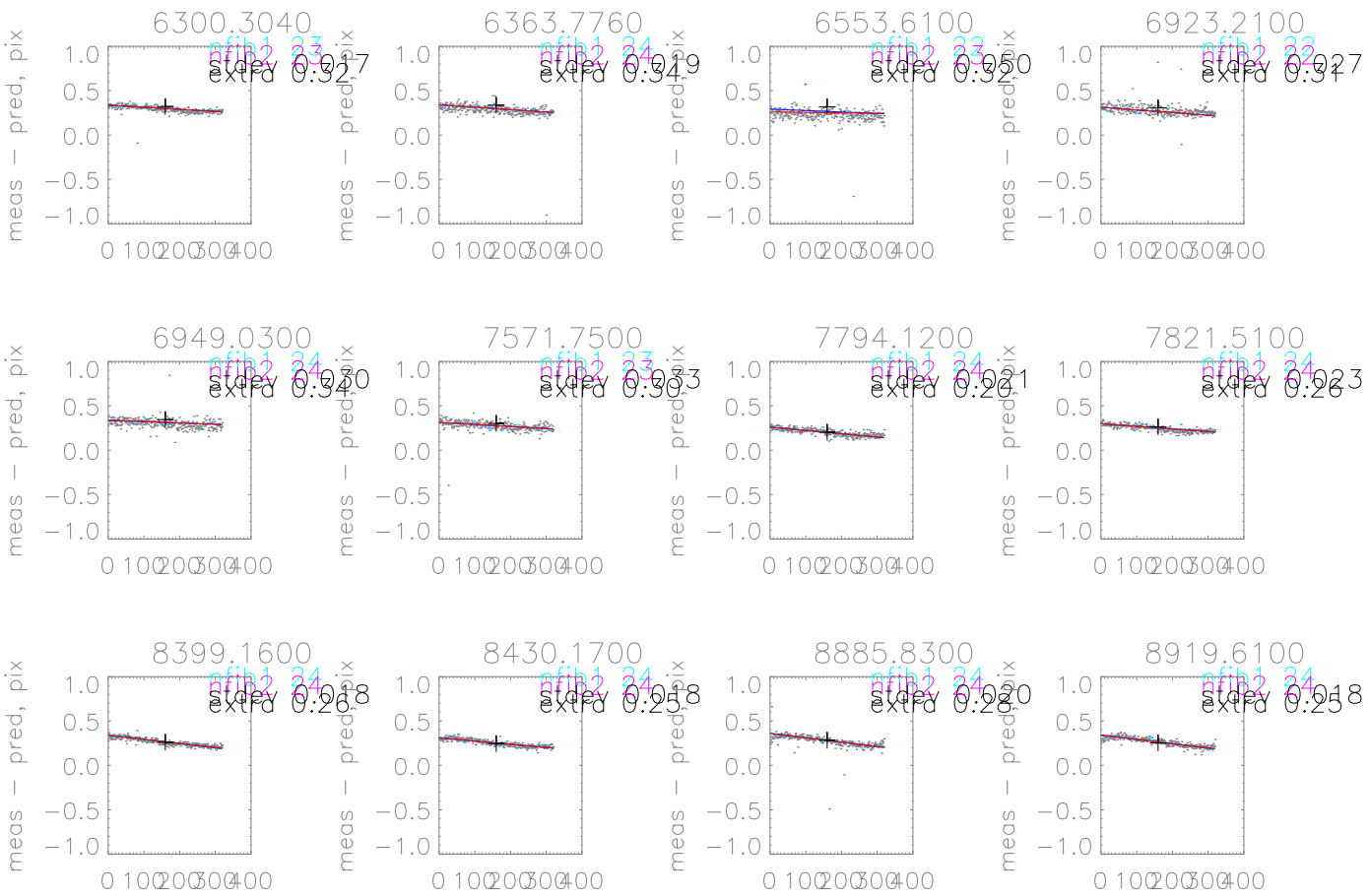

7821.5100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

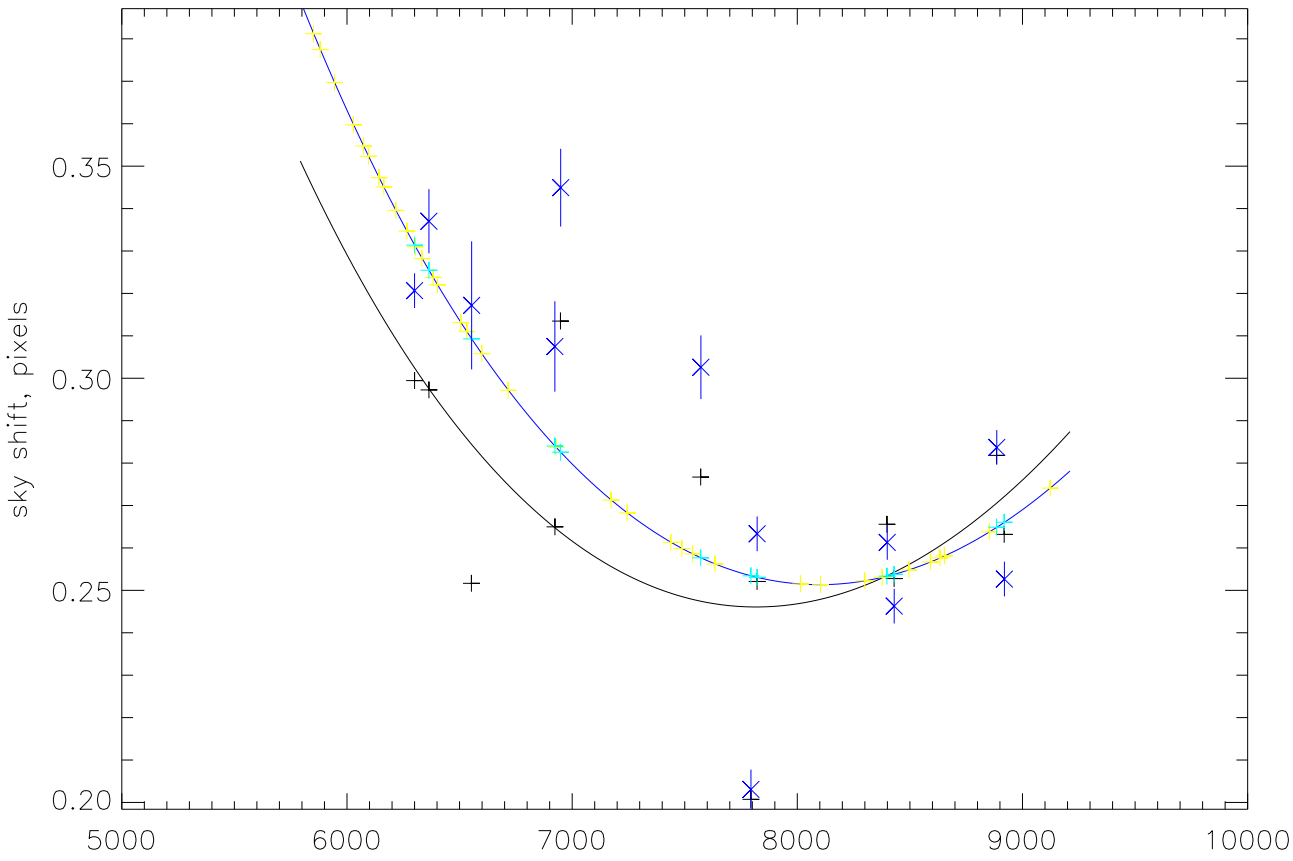

8399.1600
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

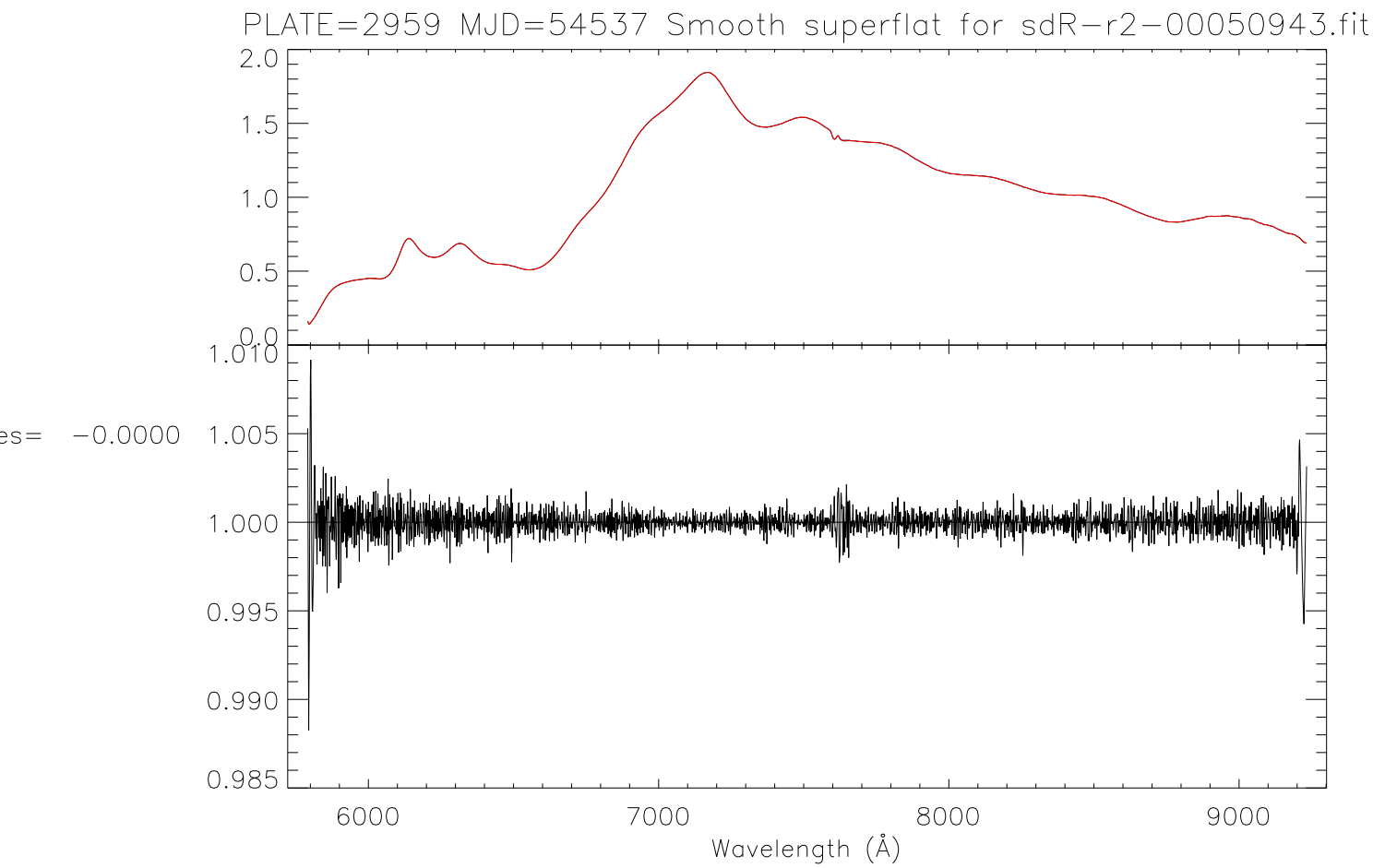

8430.1700
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

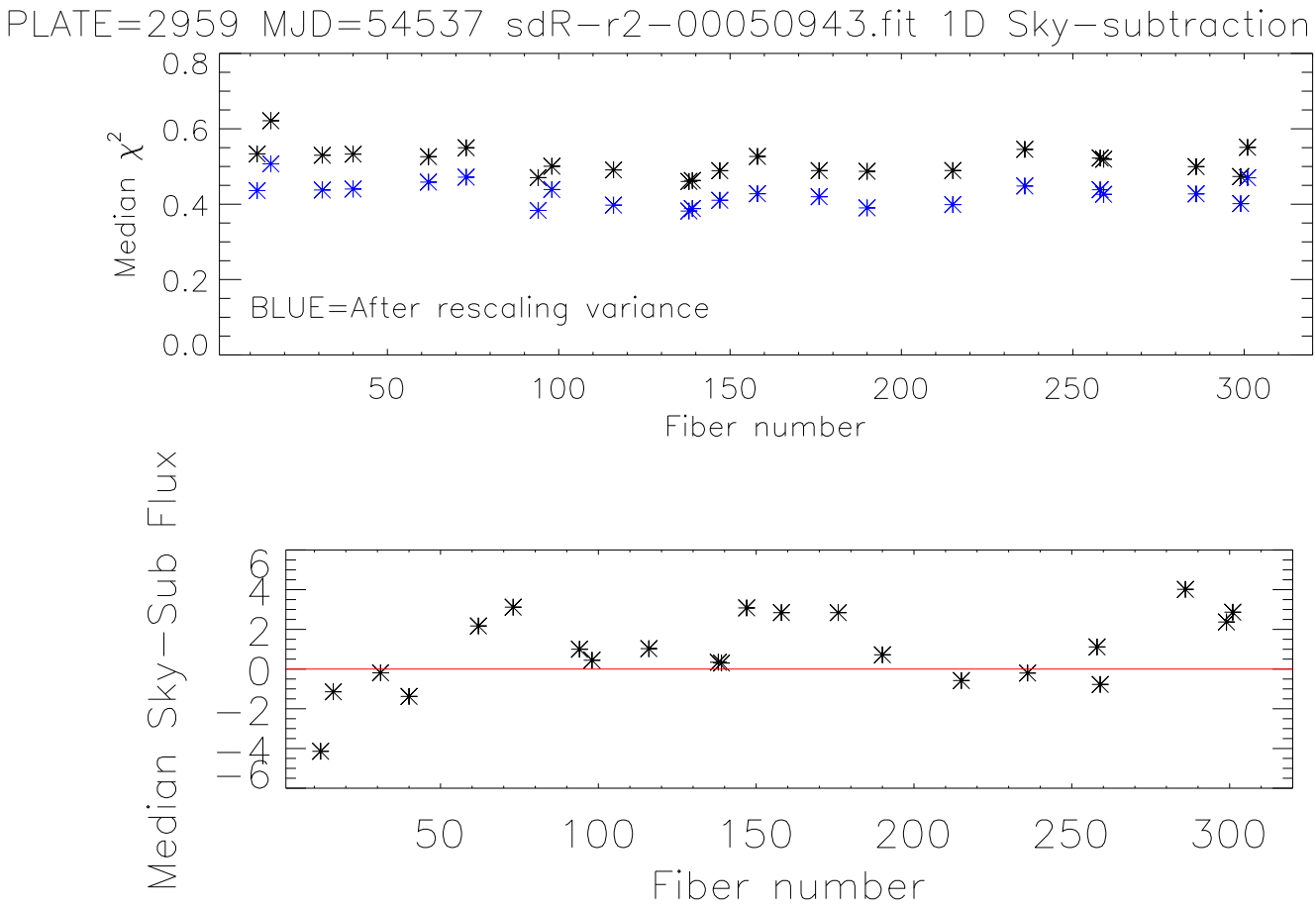

8885.8300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400


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

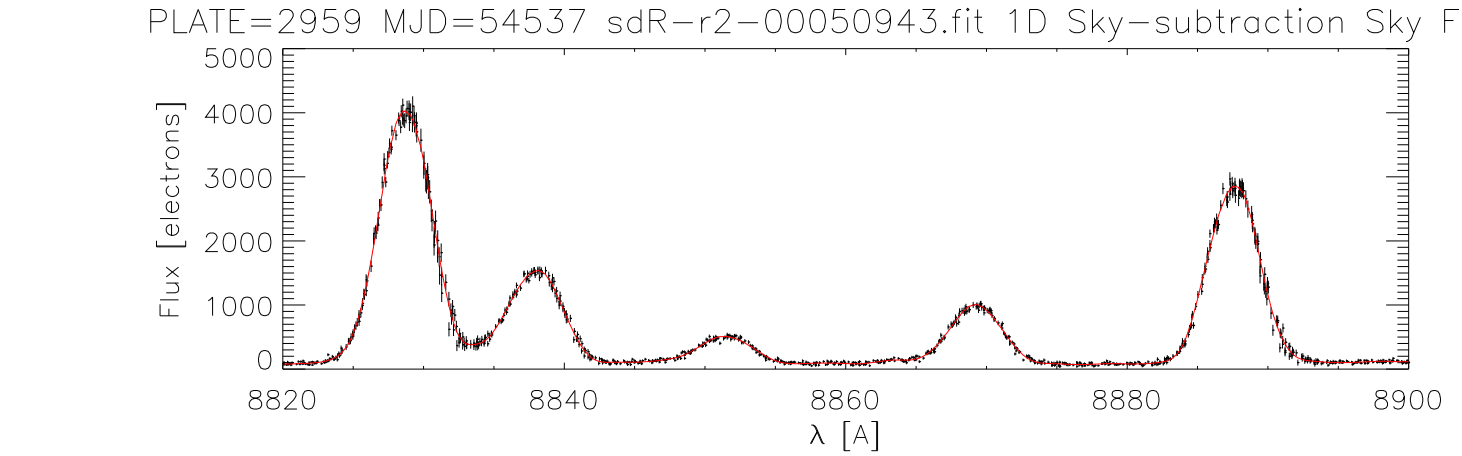

6300.3040
stdev 0.027
extra 0.32
6363.7760
stdev 0.029
extra 0.34
6553.6100
stdev 0.050
extra 0.32
6923.2100
stdev 0.027
extra 0.31
6949.0300
stdev 0.030
extra 0.34
7571.7500
stdev 0.033
extra 0.30
7794.1200
stdev 0.021
extra 0.24
7821.5100
stdev 0.023
extra 0.26
8399.1600
stdev 0.048
extra 0.26
8430.1700
stdev 0.058
extra 0.25
8885.8300
stdev 0.020
extra 0.28
8919.6100
stdev 0.018
extra 0.25
meas − pred, pix

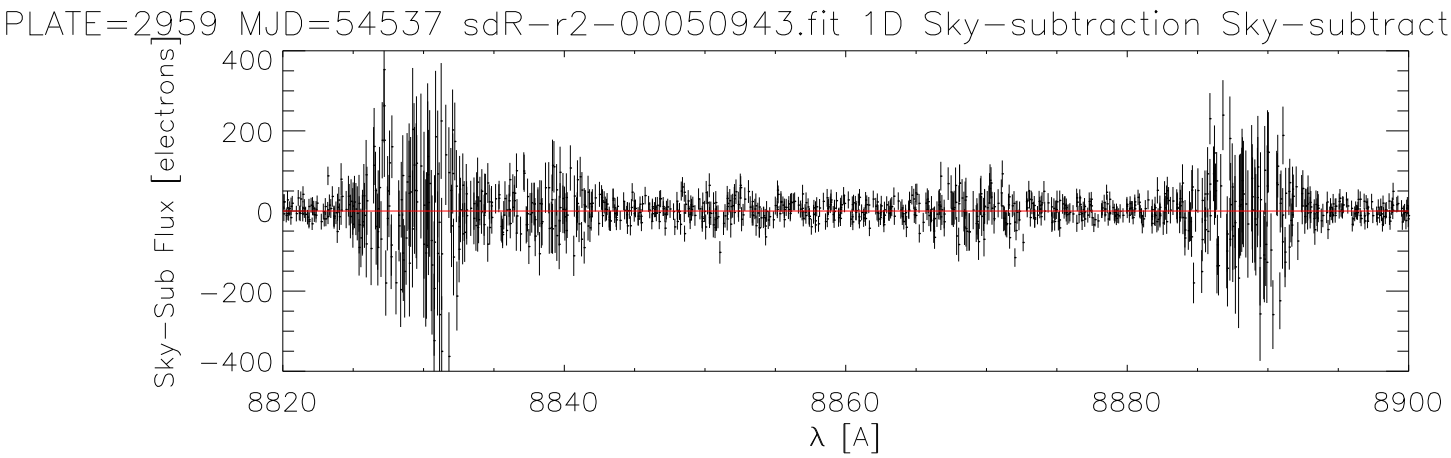

sky shift, pixels
0.35
0.30
0.25
0.20
5000
6000
7000
8000
9000
10000

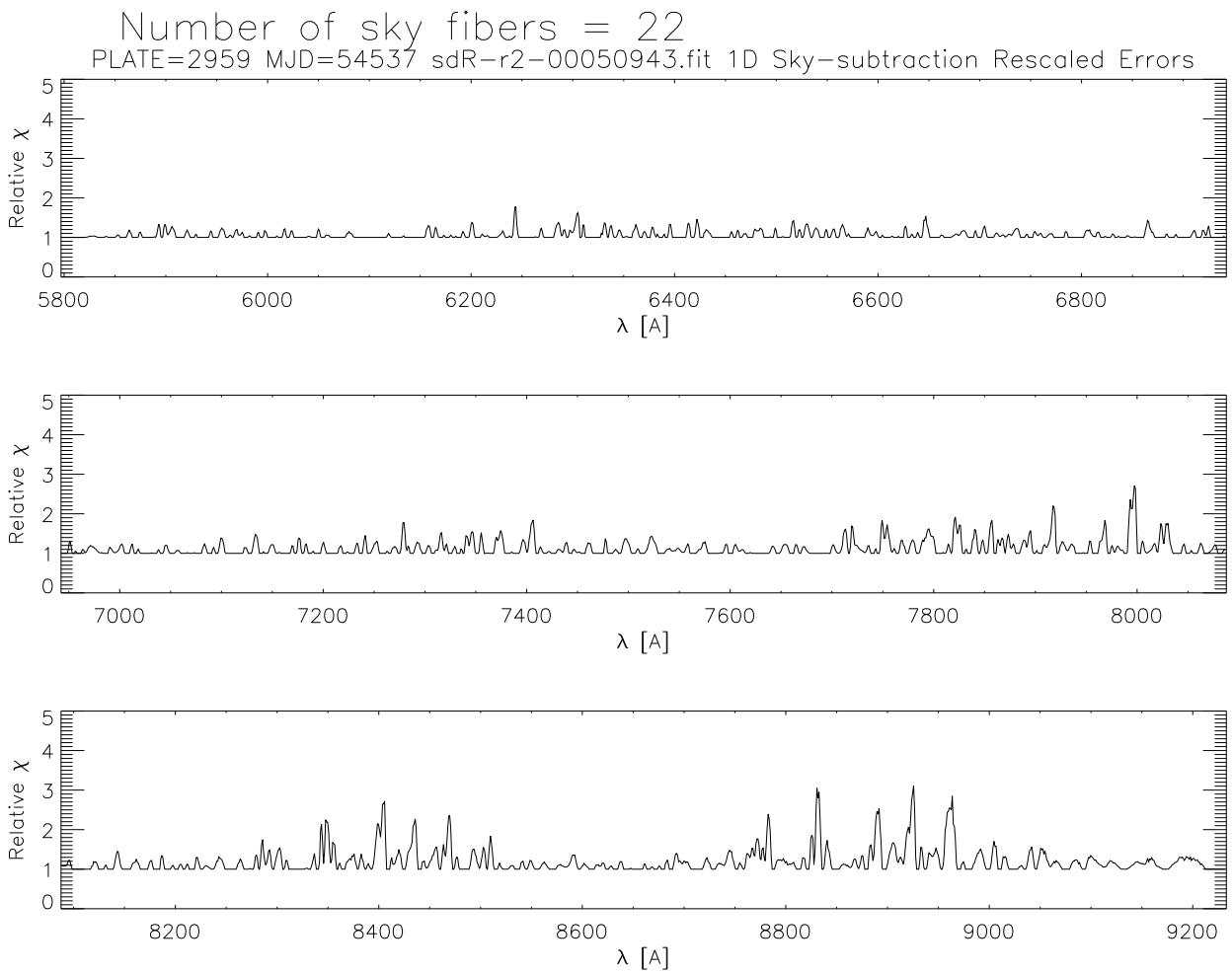

PLATE=2959 MJD=54537 Smooth superflat for sdR-r2-00050943.fit
2.0
1.5
1.0
0.5
0.0
es= -0.0000
1.010
1.005
1.000
0.995
0.990
0.985
6000
7000
8000
9000
Wavelength (Å)

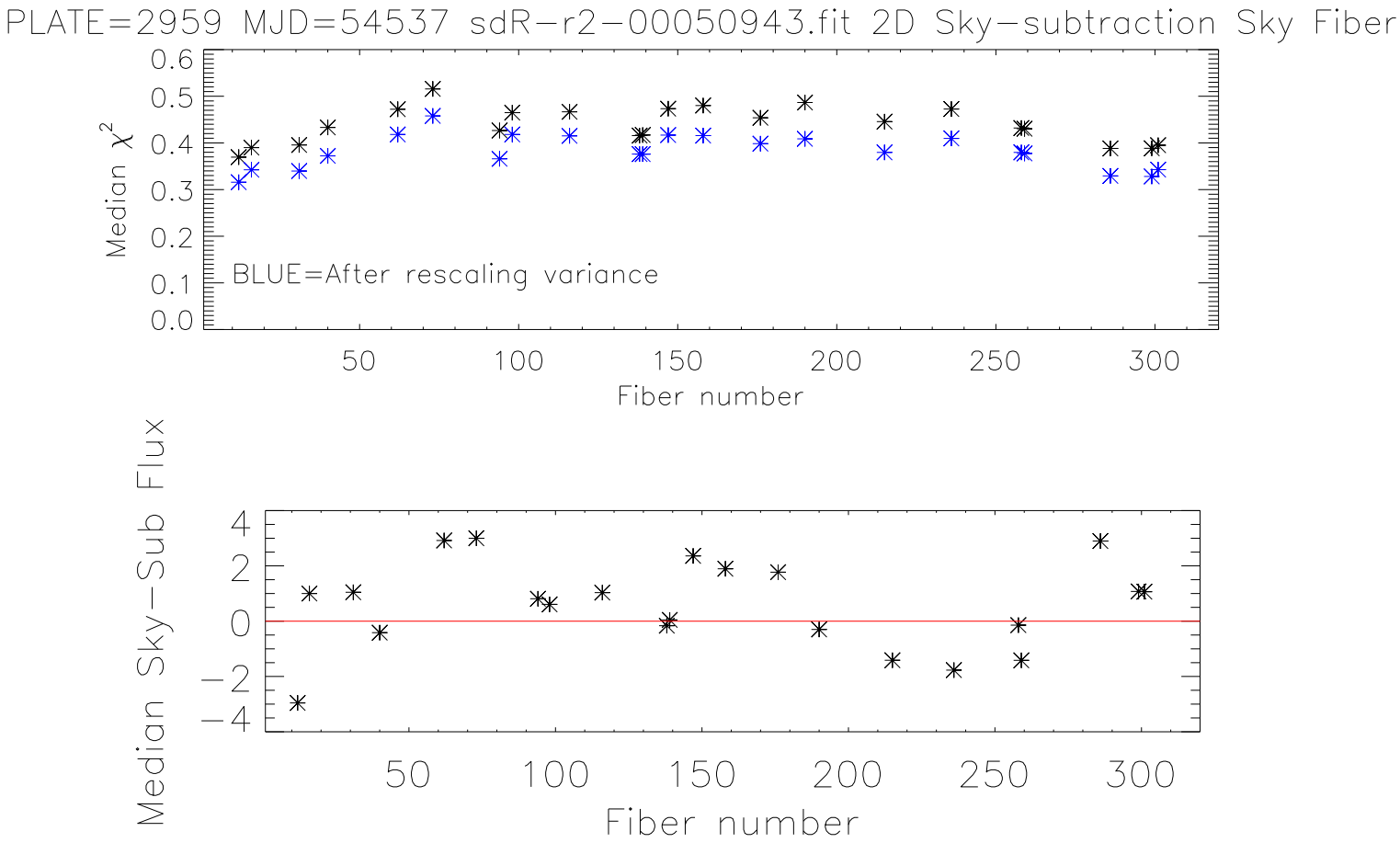

PLATE=2959 MJD=54537 sdR-r2-00050943.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

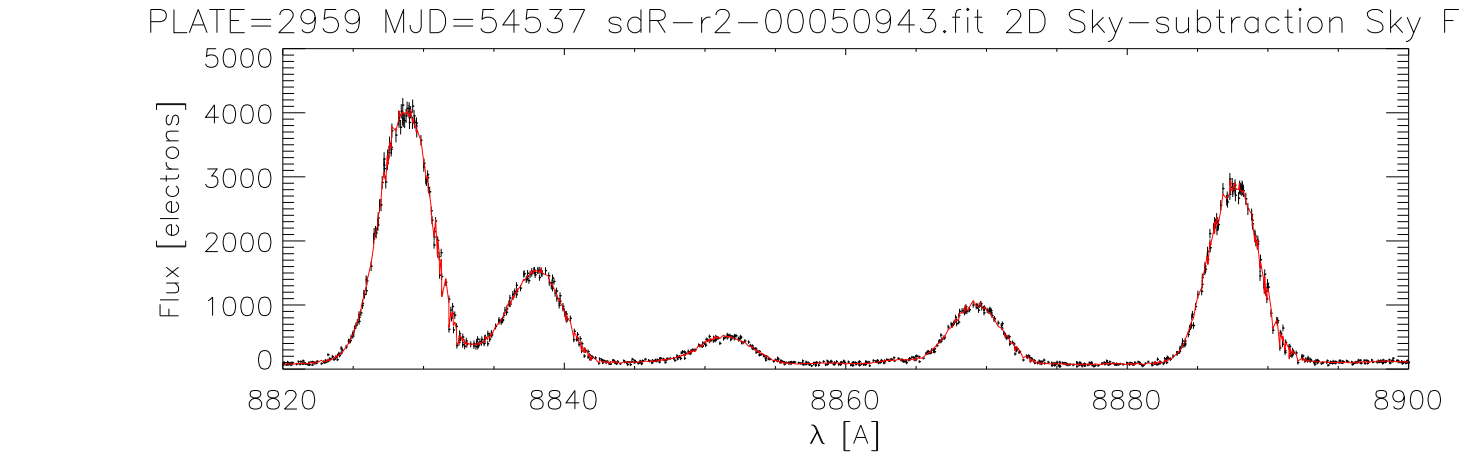
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

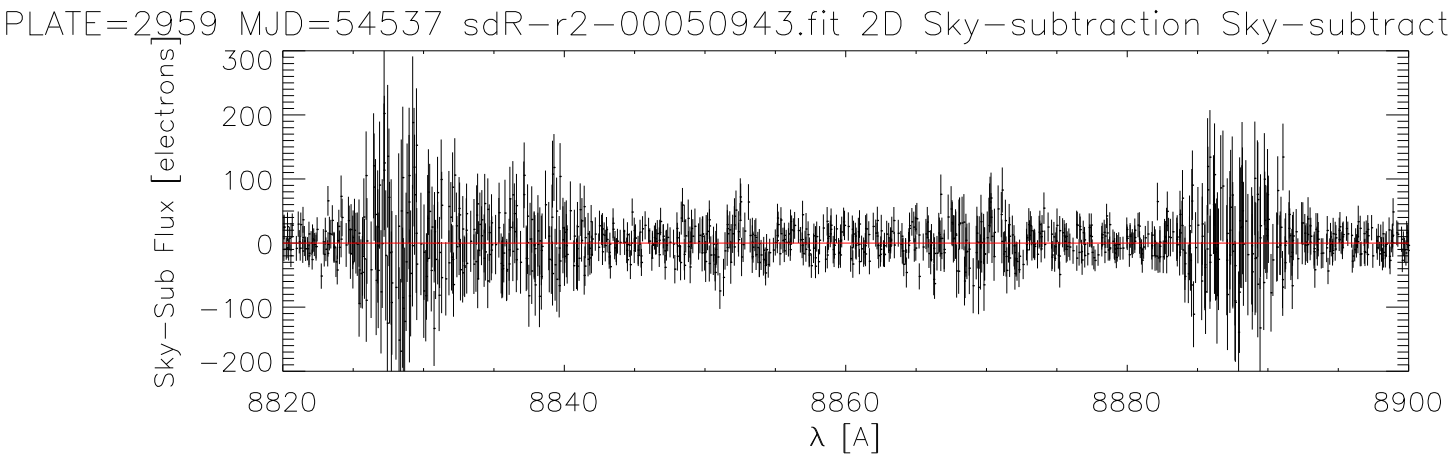

PLATE=2959 MJD=54537 sdR-r2-00050943.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

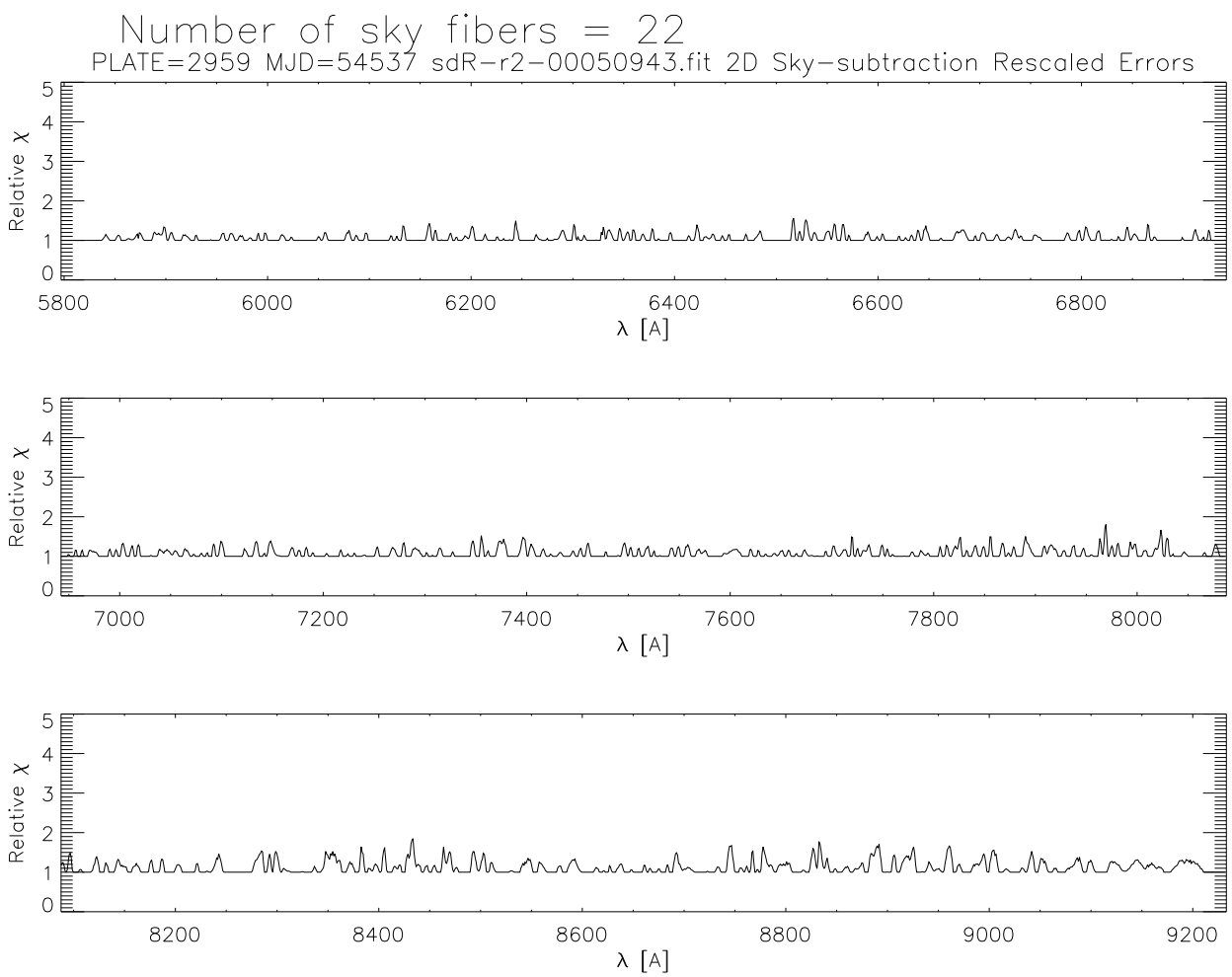

PLATE=2959 MJD=54537 sdR-r2-00050943.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

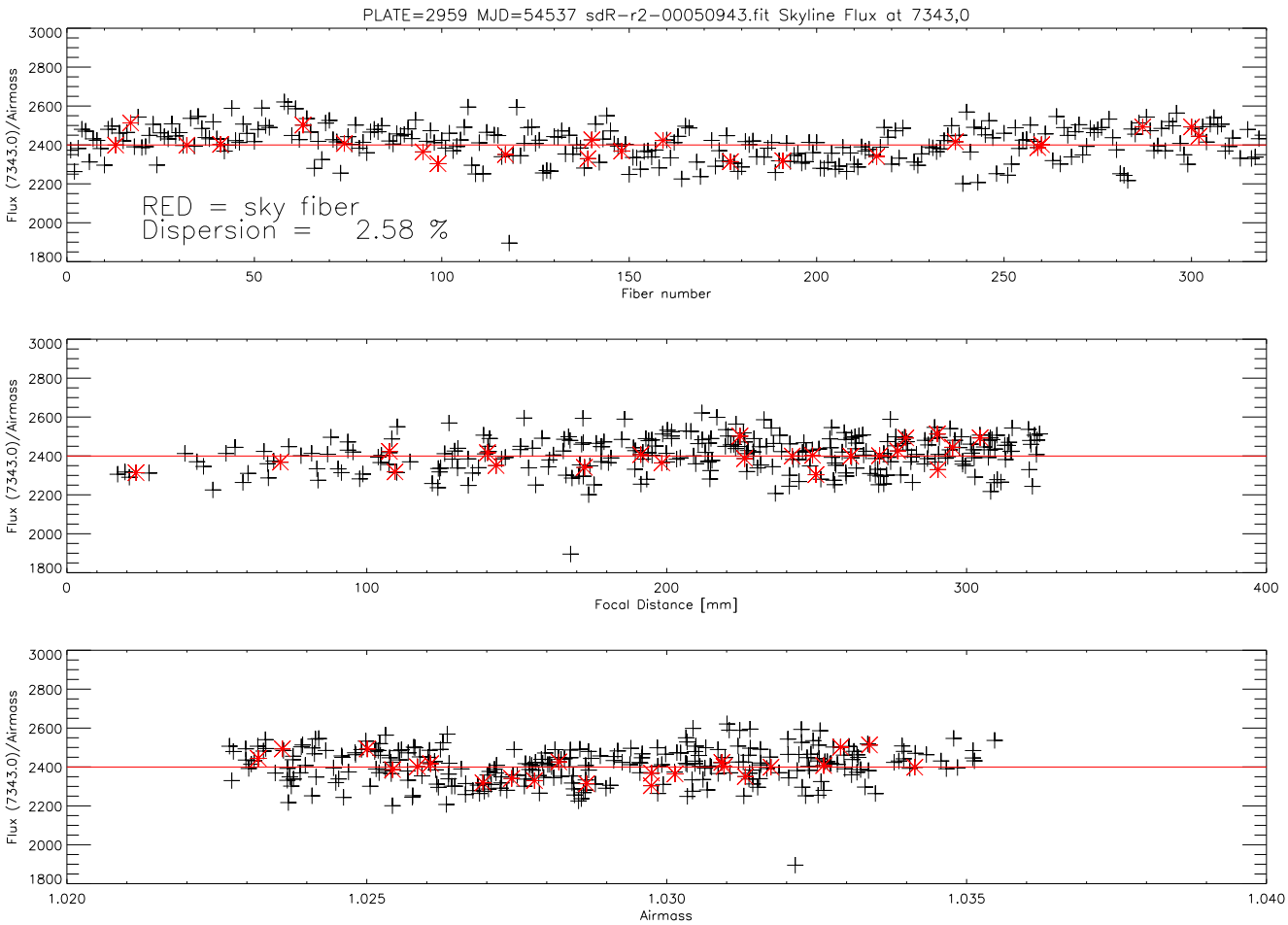

Number of sky fibers = 22
PLATE=2959 MJD=54537 sdR-r2-00050943.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

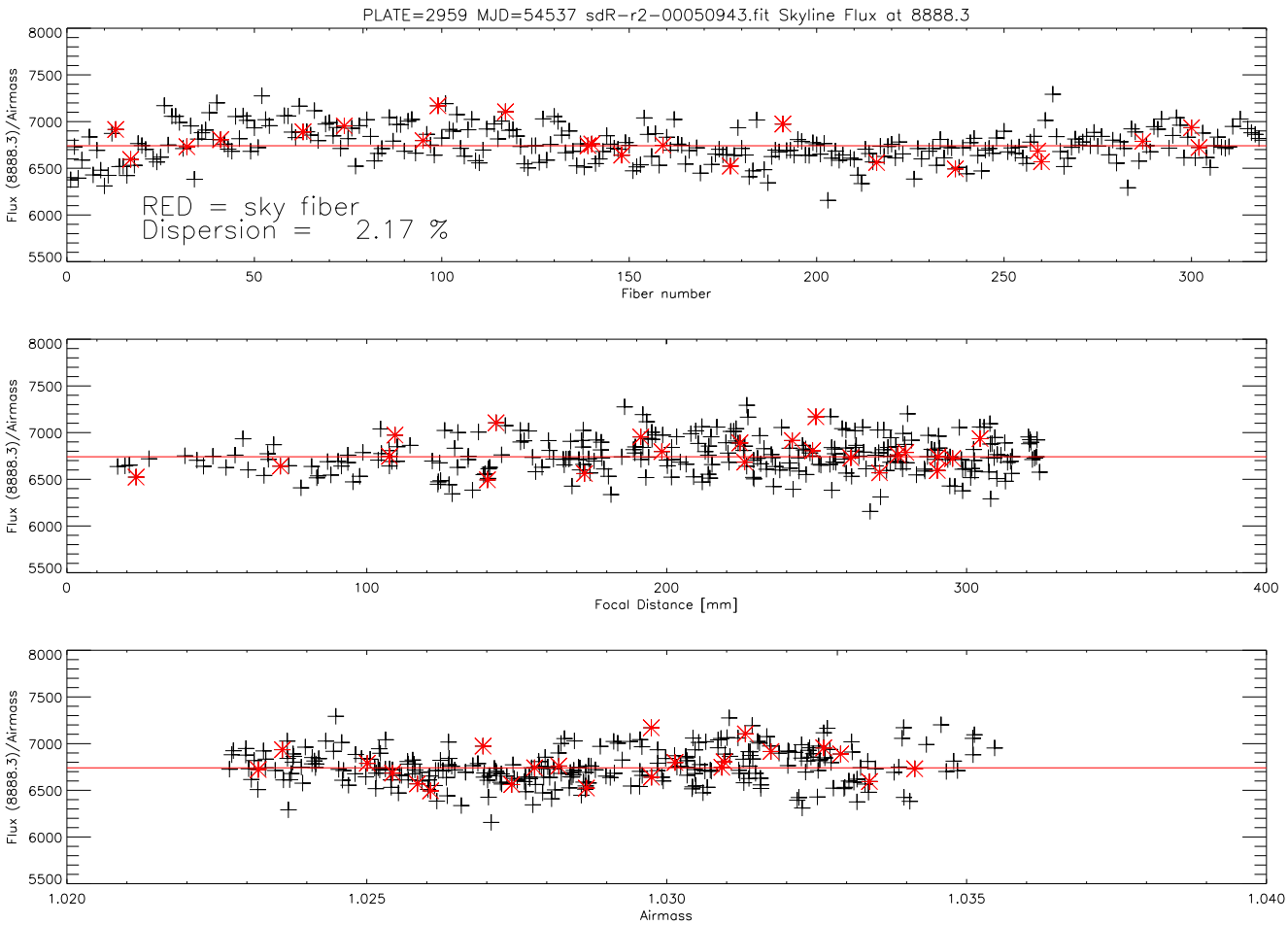

PLATE=2959 MJD=54537 sdR-r2-00050943.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number


PLATE=2959 MJD=54537 sdR-r2-00050943.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]


PLATE=2959 MJD=54537 sdR-r2-00050943.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]


Number of sky fibers = 22
PLATE=2959 MJD=54537 sdR-r2-00050943.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=2959 MJD=54537 sdR-r2-00050943.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.58 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass


PLATE=2959 MJD=54537 sdR-r2-00050943.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.17 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass