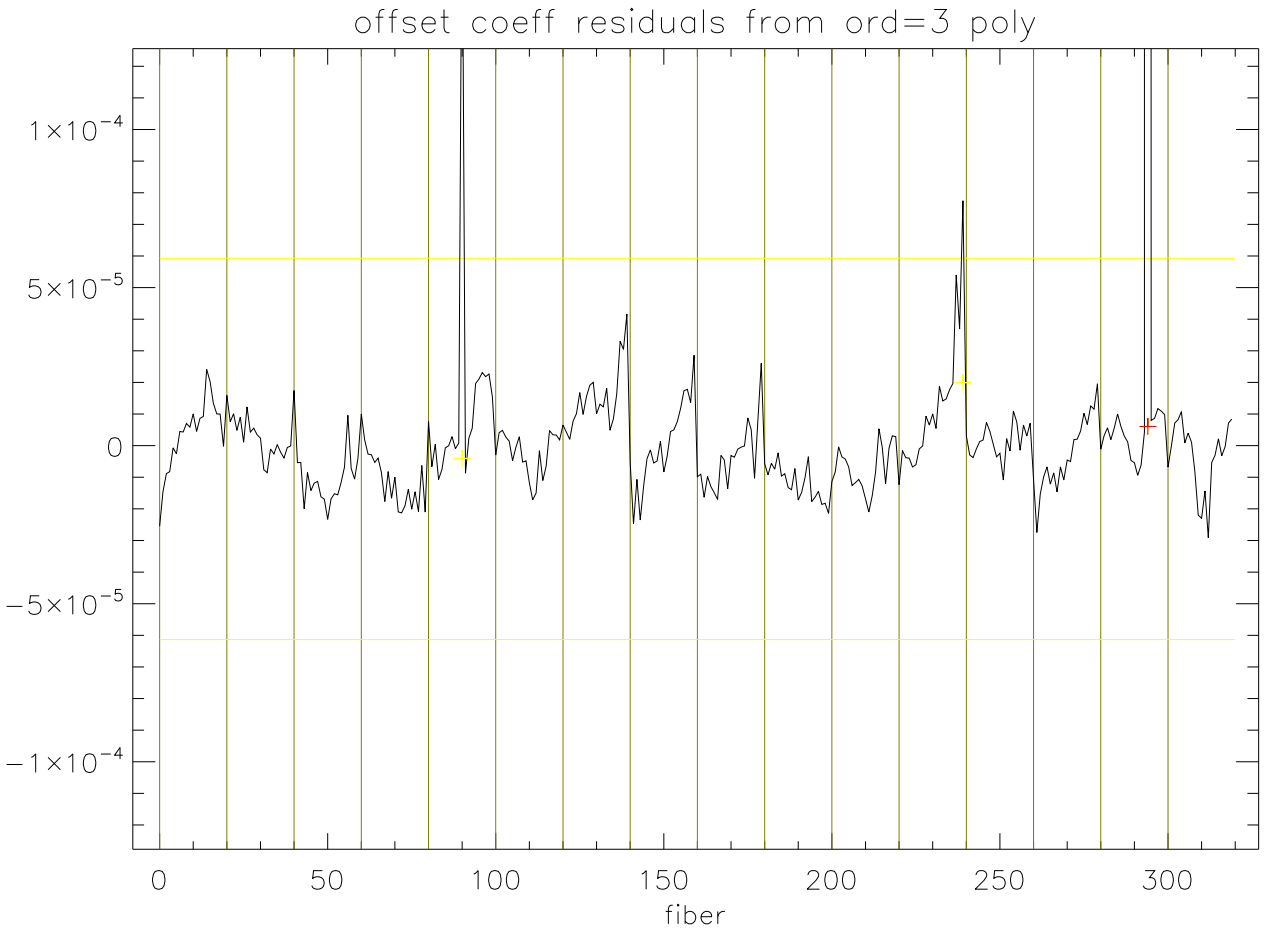
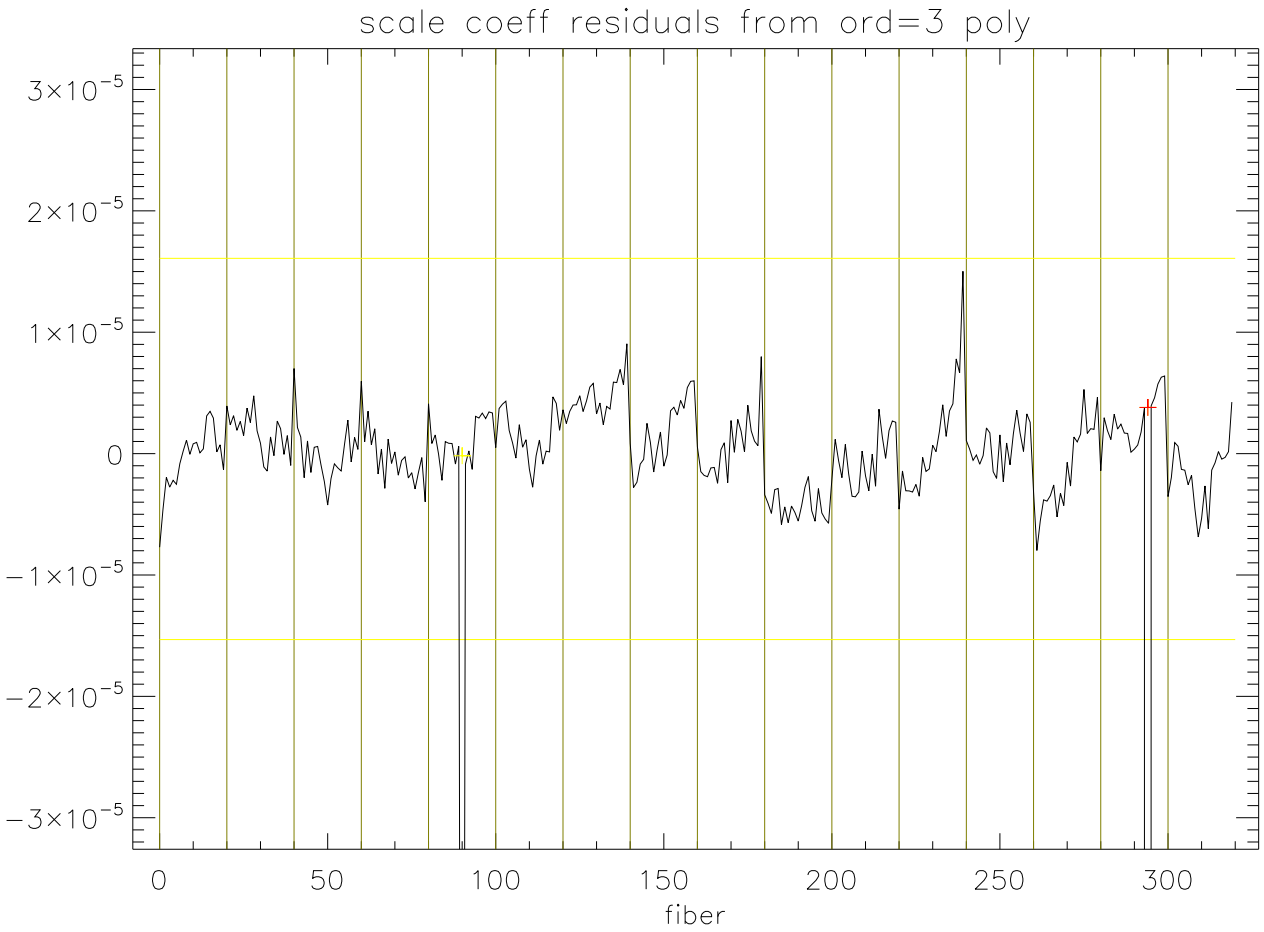
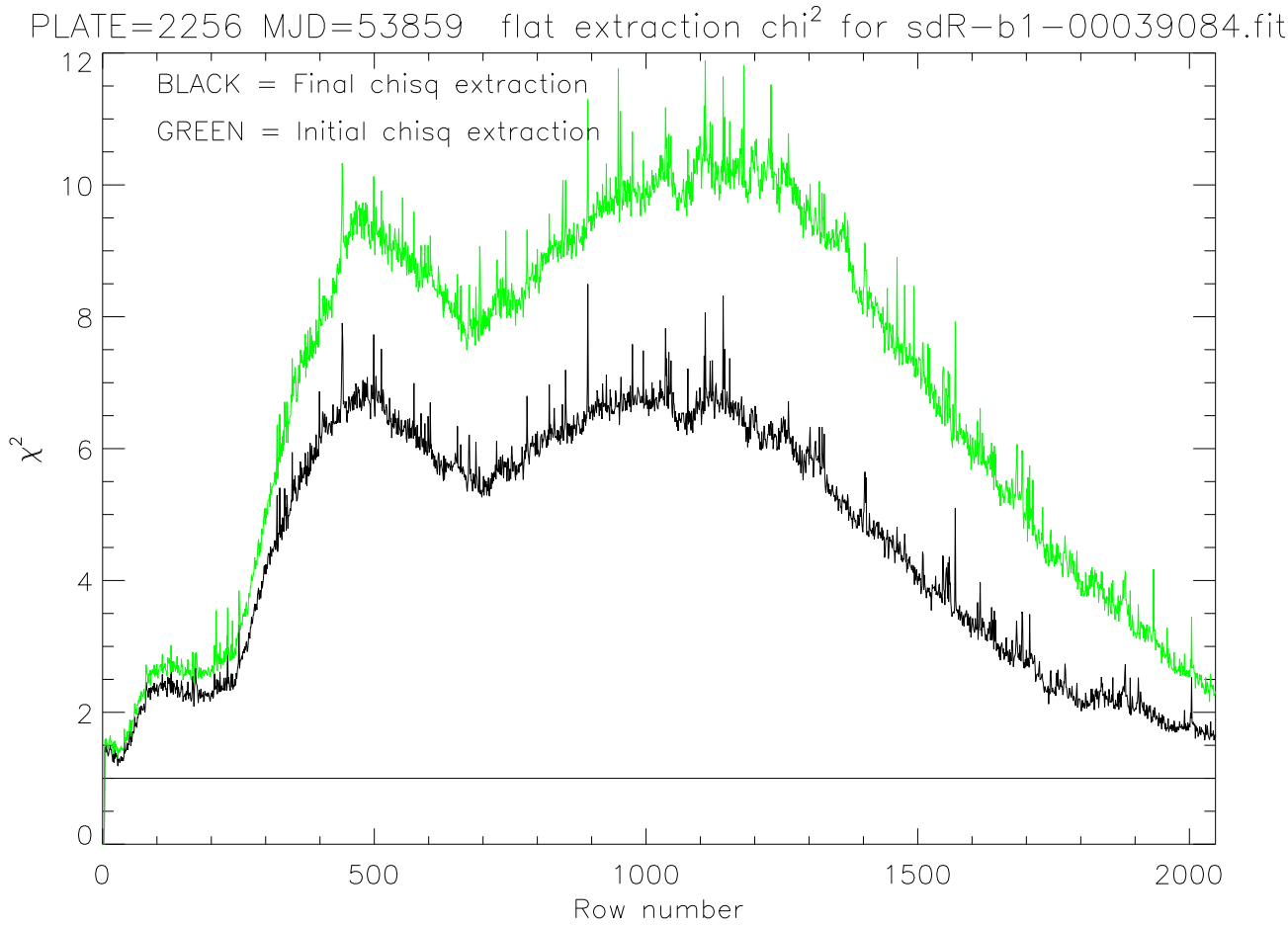
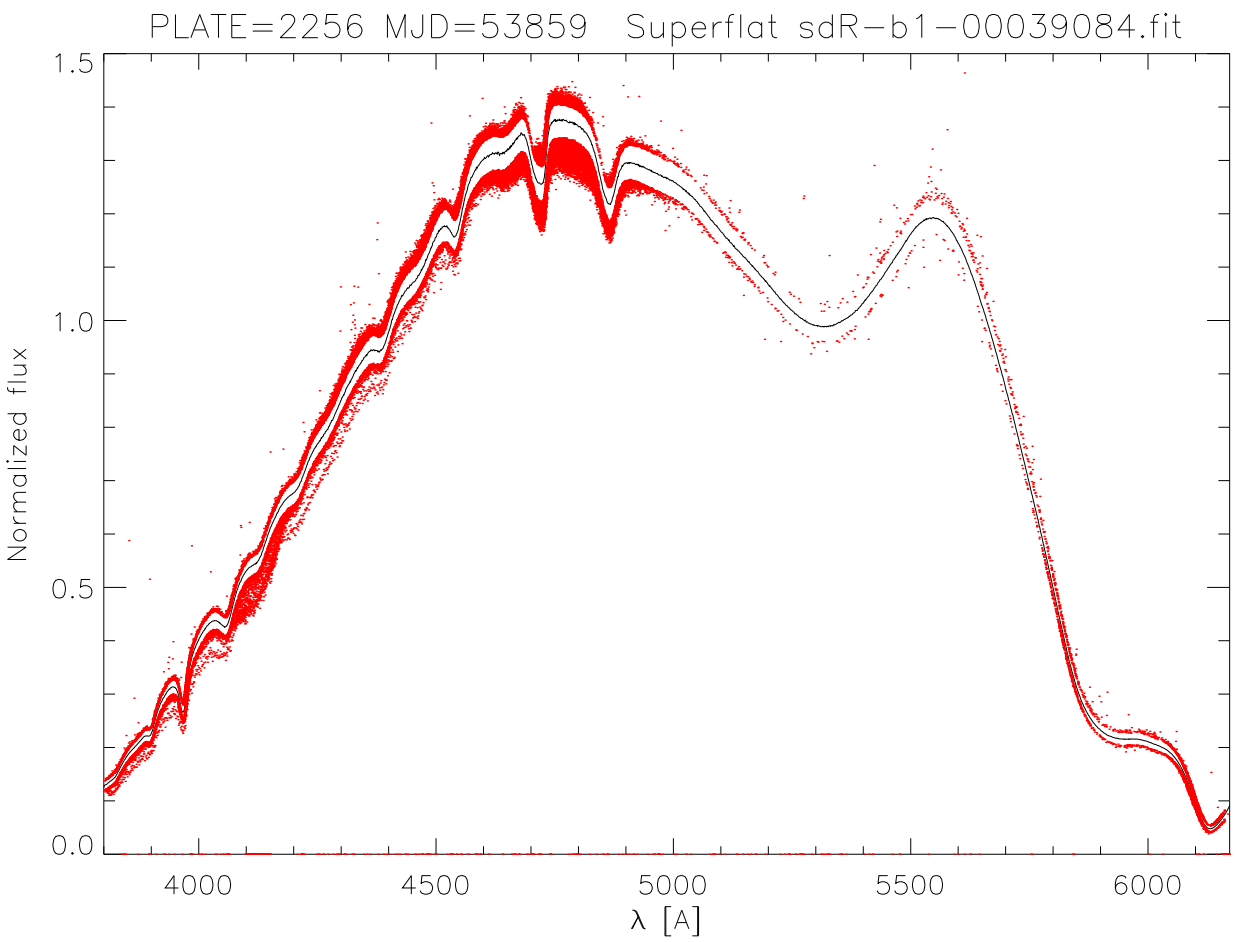
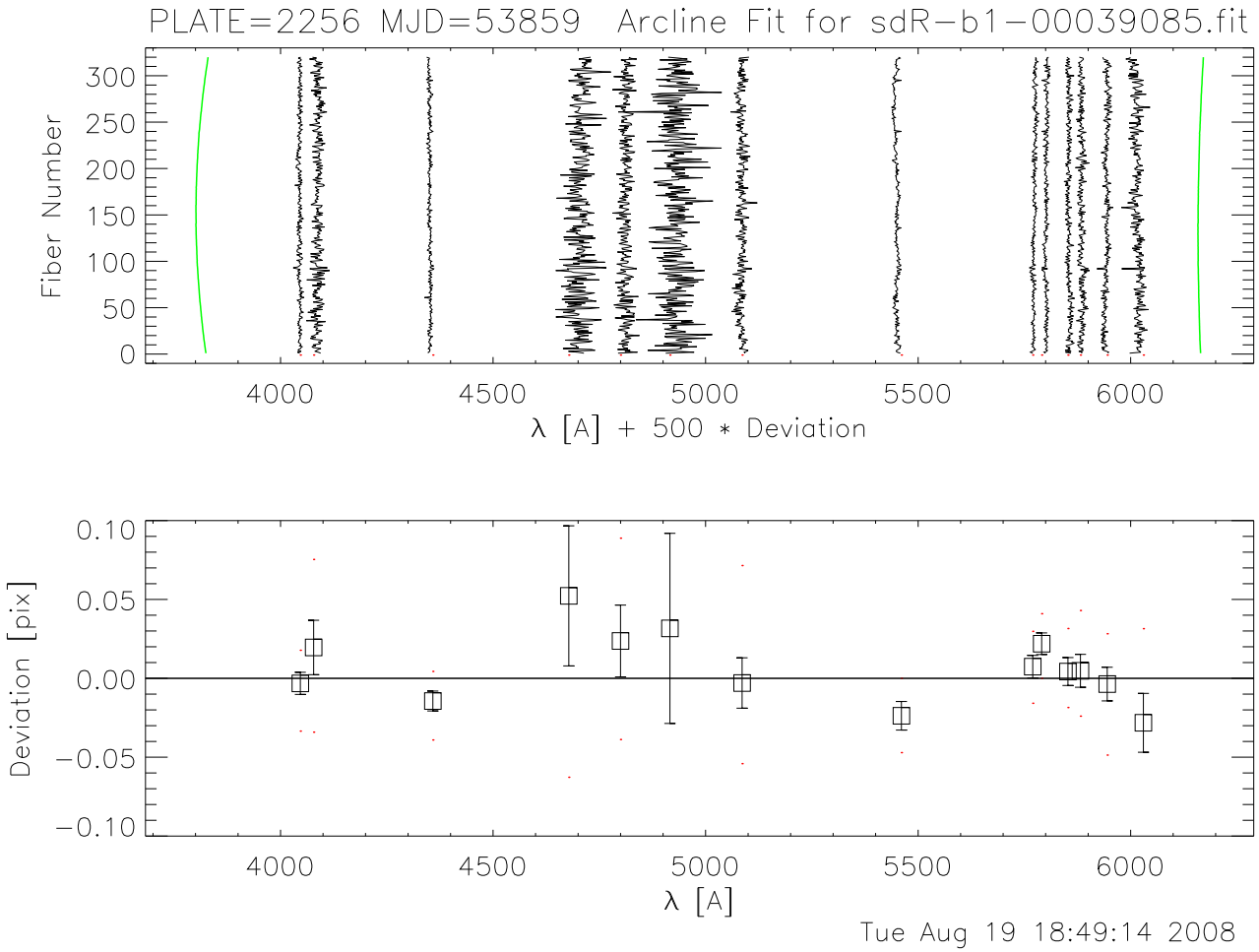
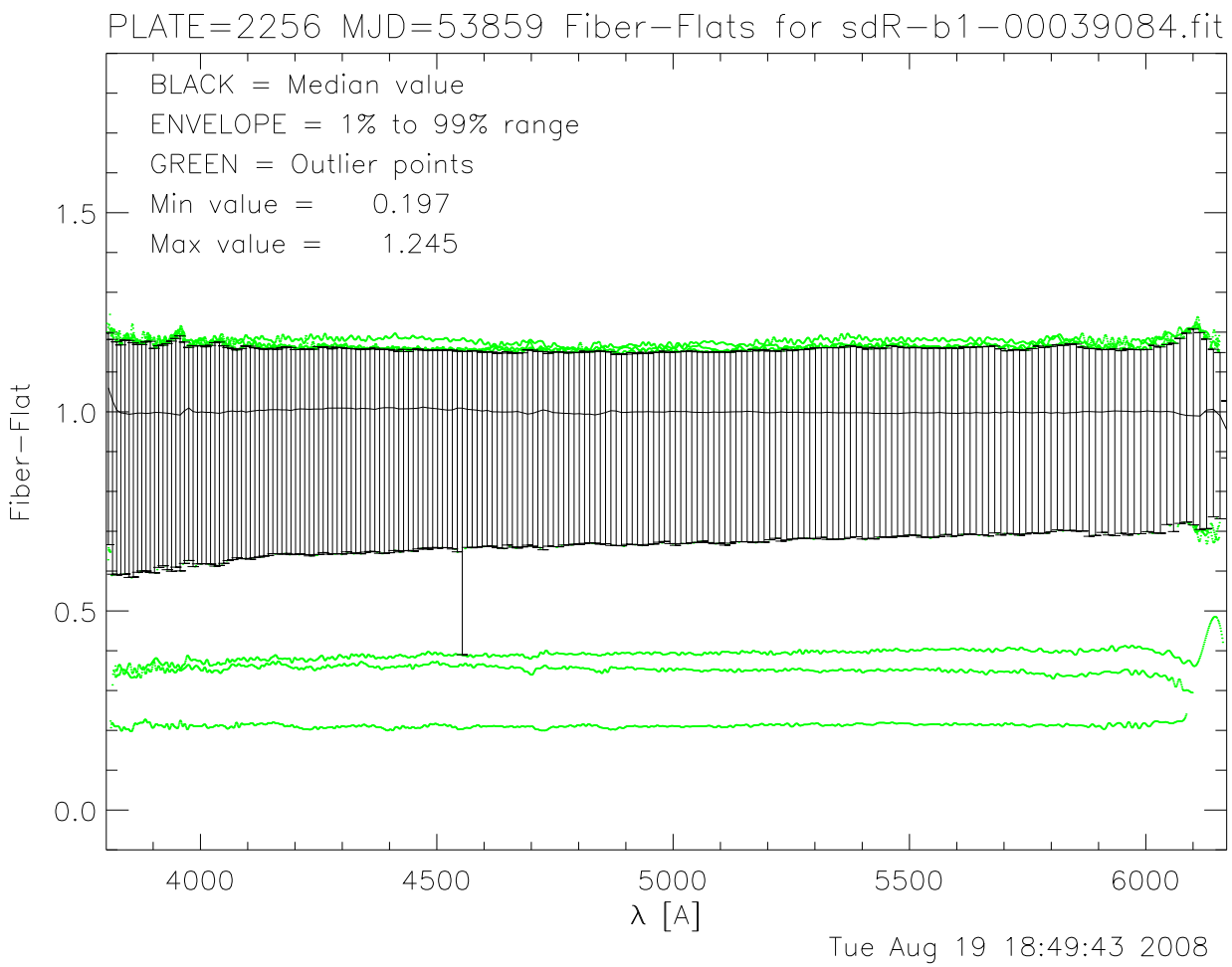

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

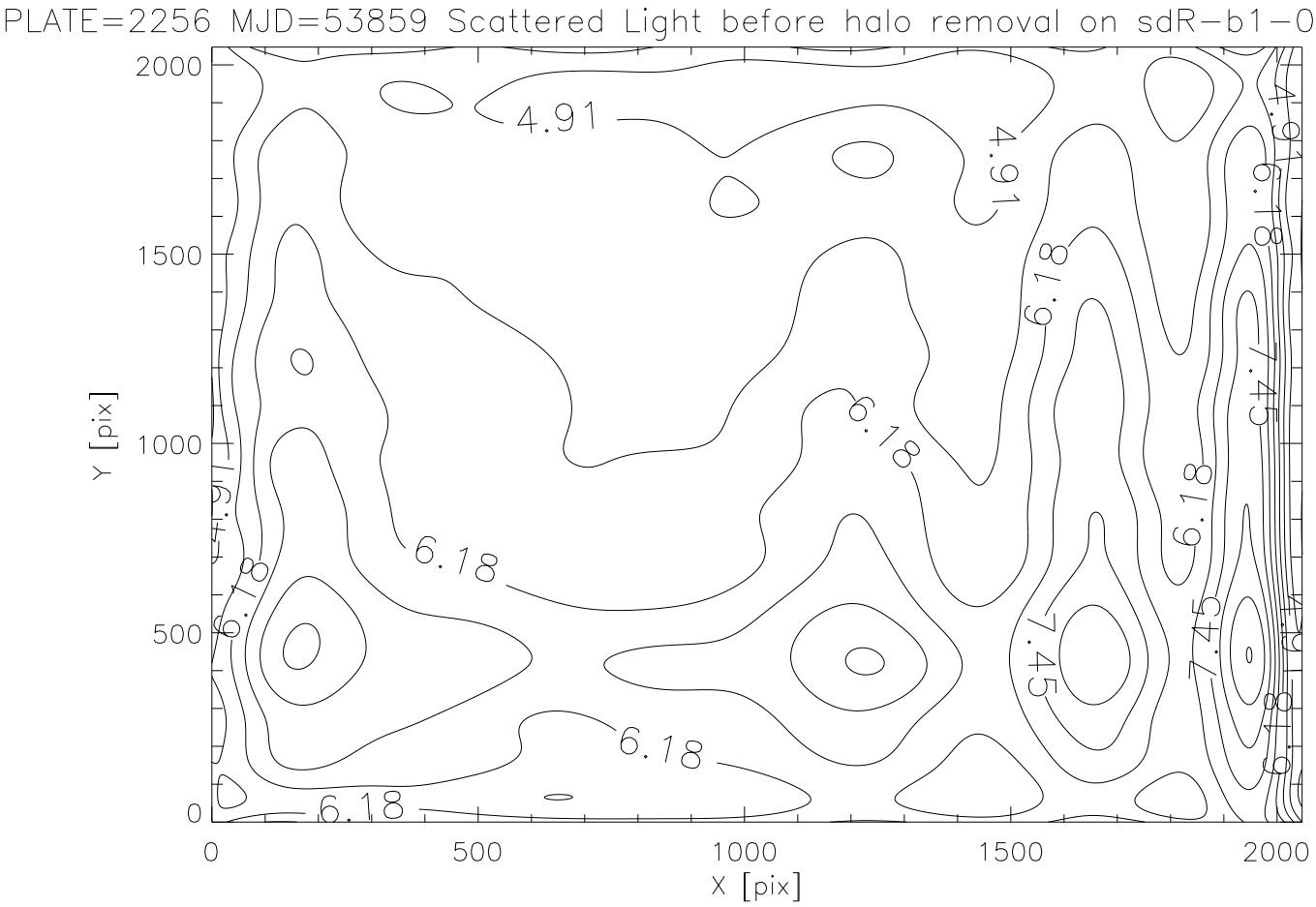

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

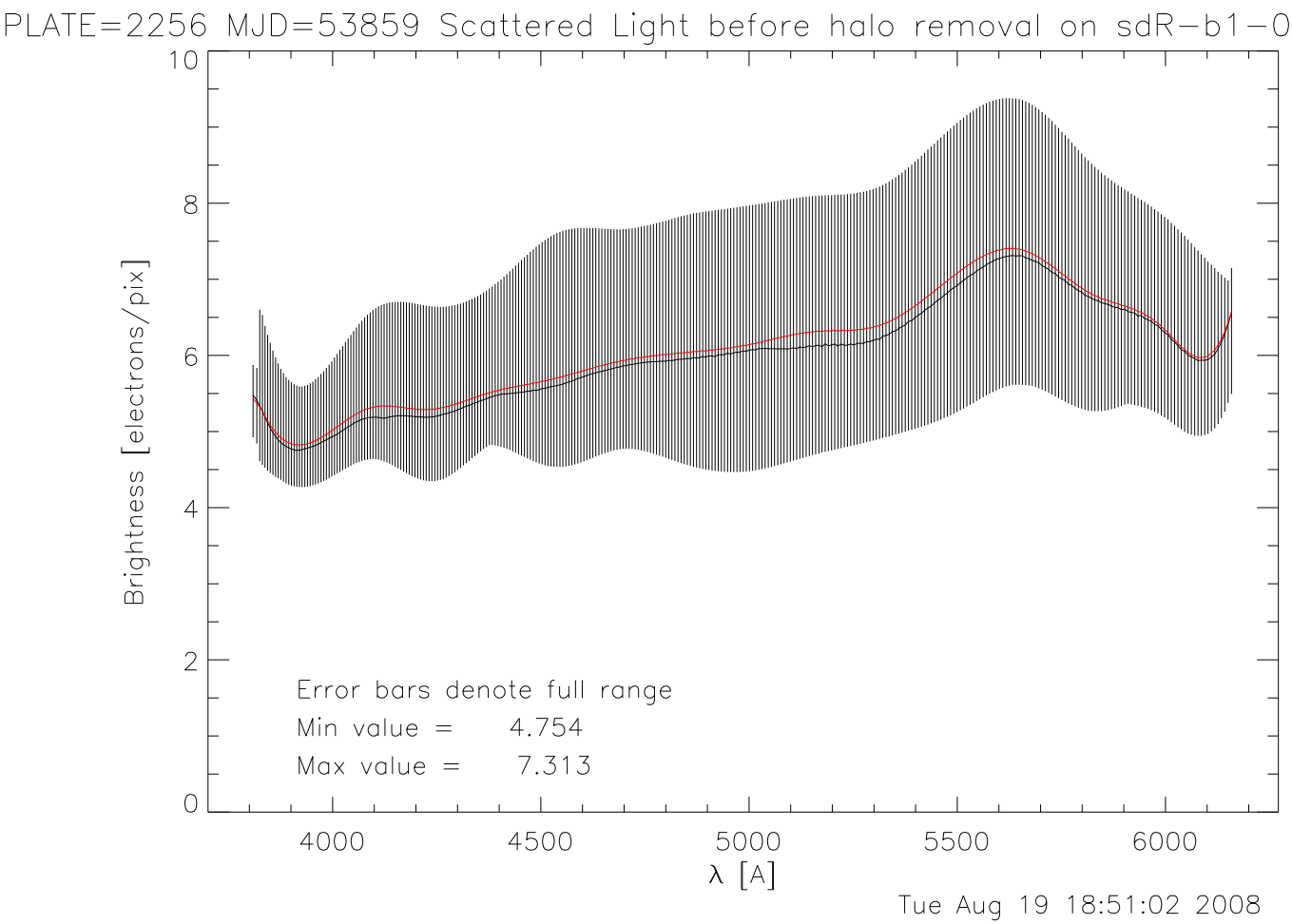

PLATE=2256 MJD=53859 flat extraction chi$^2$ for sdR−b1−00039084.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
$\chi^2$
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

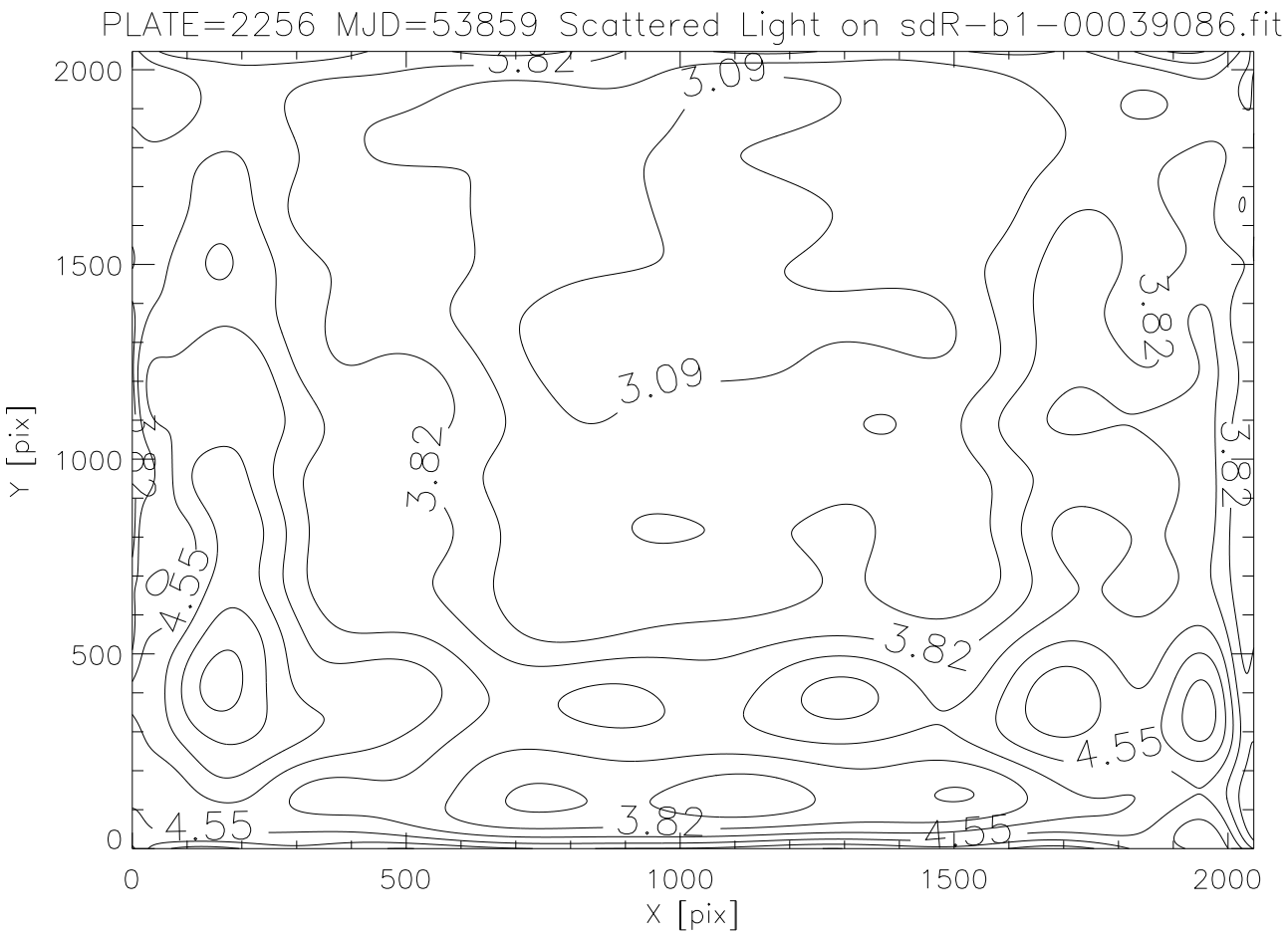

PLATE=2256 MJD=53859 Superflat sdR-b1-00039084.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

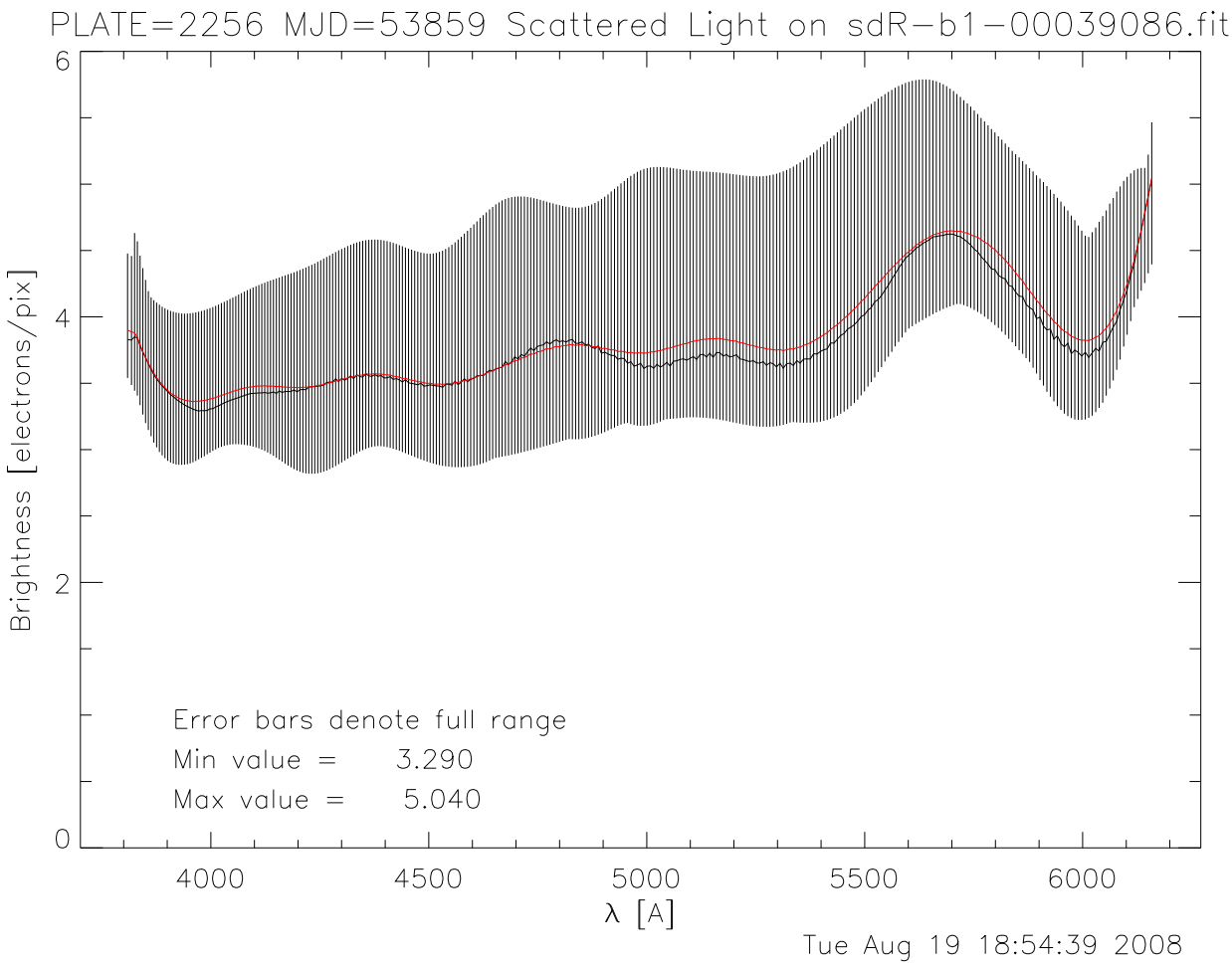

PLATE=2256 MJD=53859 Arcline Fit for sdR-b1-00039085.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Tue Aug 19 18:49:14 2008

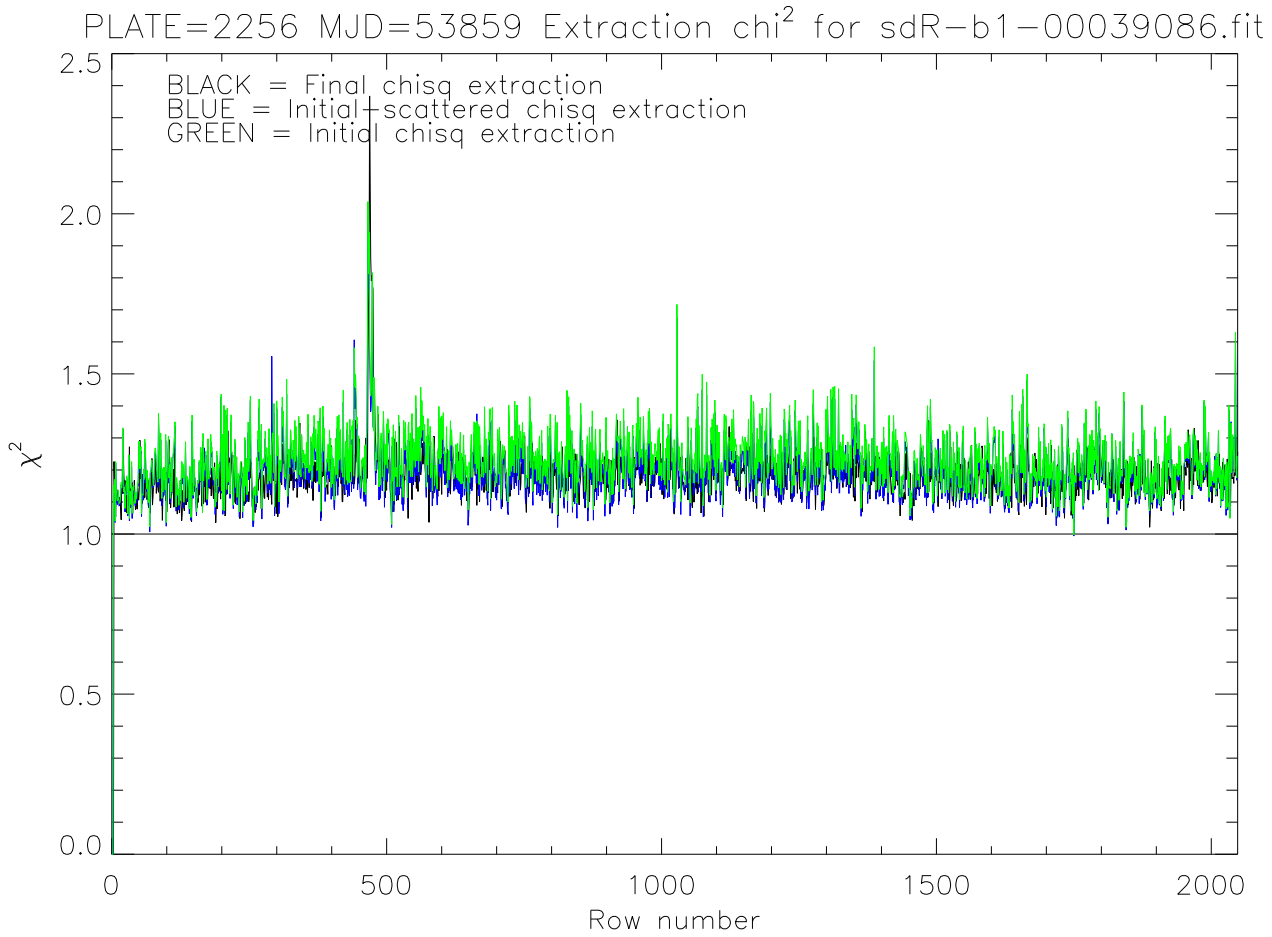

PLATE=2256 MJD=53859 Fiber−Flats for sdR−b1−00039084.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.197
Max value = 1.245
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Tue Aug 19 18:49:43 2008

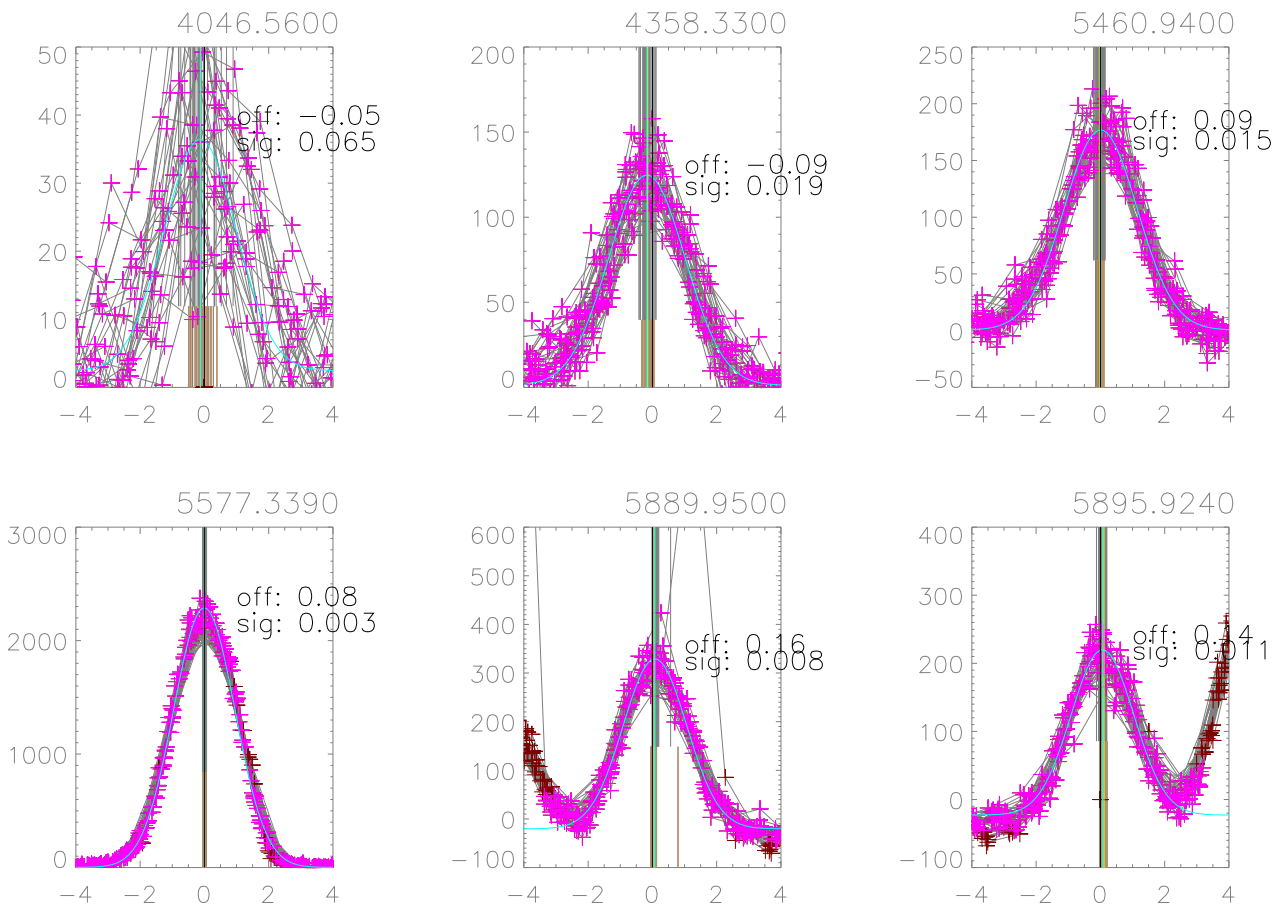

PLATE=2256 MJD=53859 Scattered Light before halo removal on sdR−b1−00039086.f
Y [pix]
X [pix]
0
500
1000
1500
2000
4.91
6.18
7.45

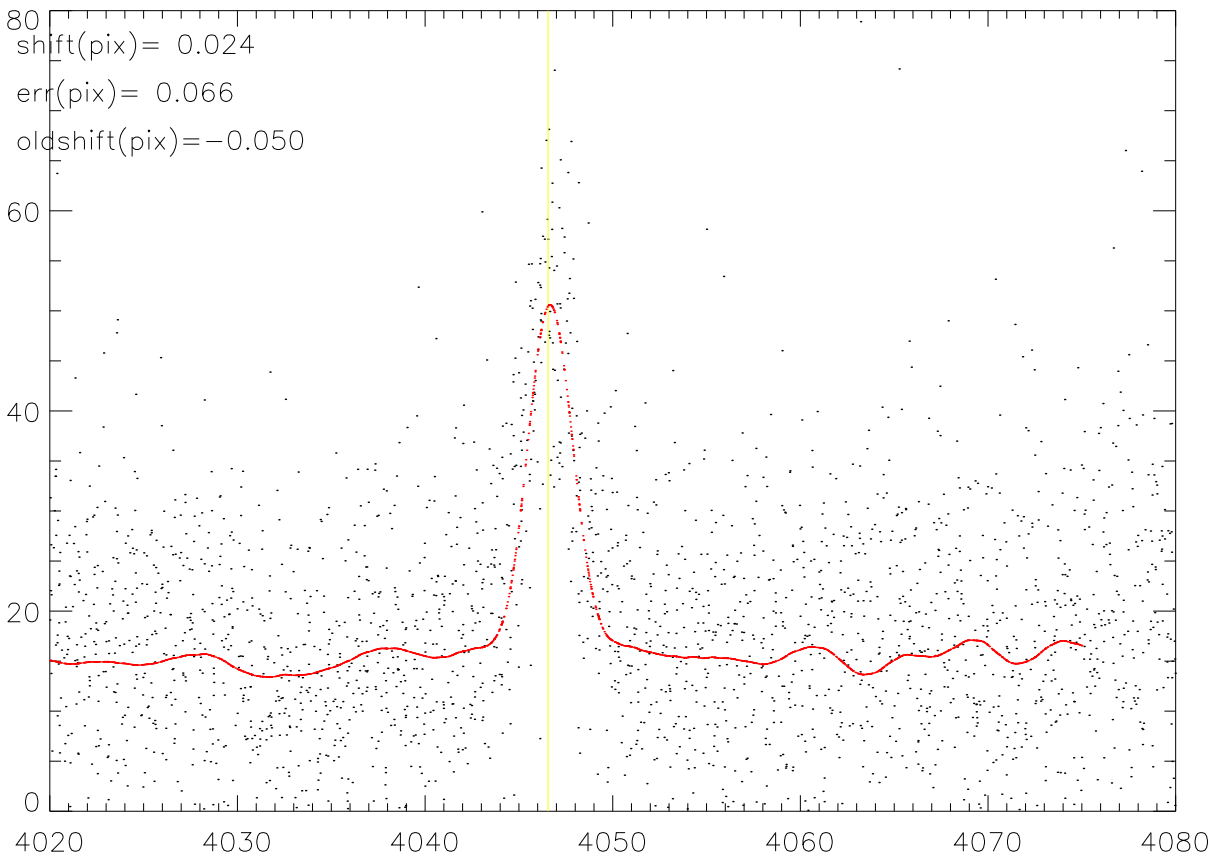

PLATE=2256 MJD=53859 Scattered Light before halo removal on sdR-b1-00039086.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.754
Max value = 7.313
Tue Aug 19 18:51:02 2008

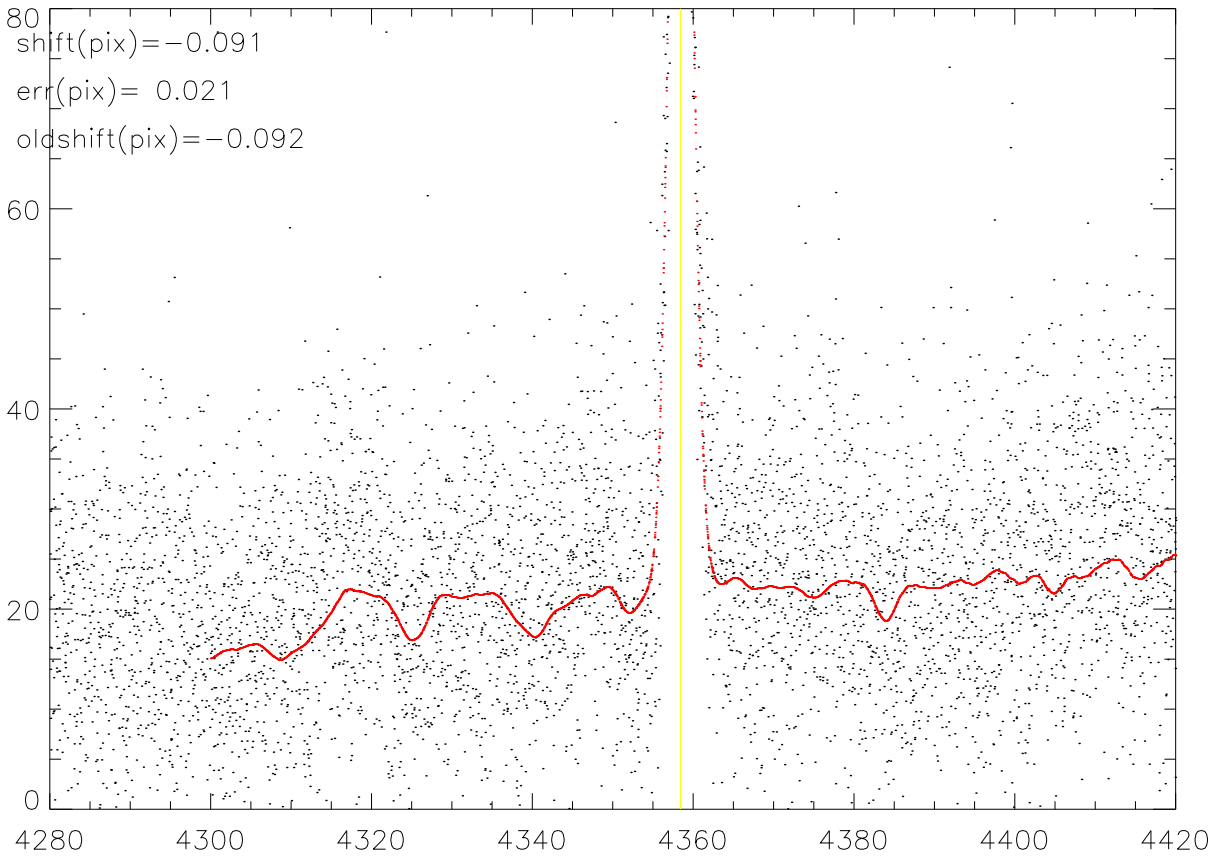

PLATE=2256 MJD=53859 Scattered Light on sdR-b1-00039086.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
3.82
3.09
4.55

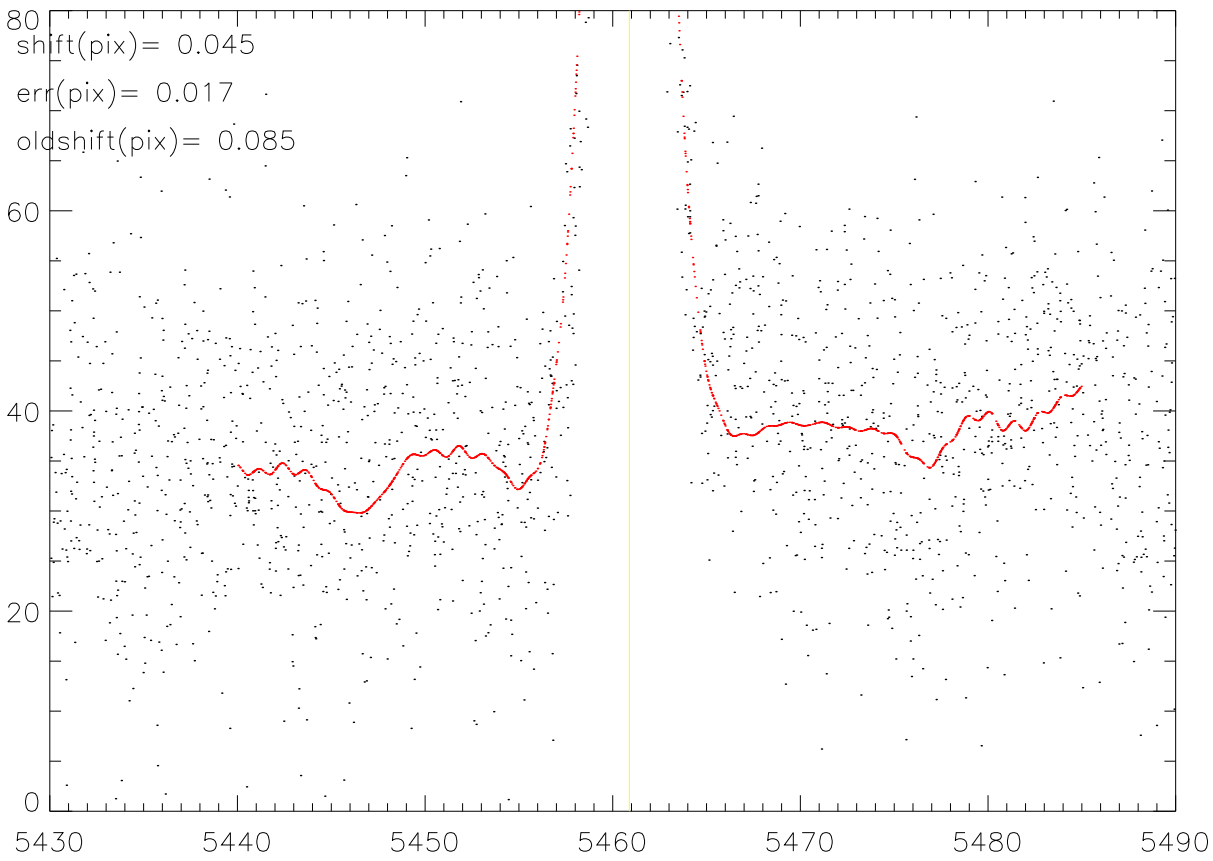

PLATE=2256 MJD=53859 Scattered Light on sdR-b1-00039086.fit
Brightness [electrons/pix]
0
2
4
6
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 3.290
Max value = 5.040
Tue Aug 19 18:54:39 2008

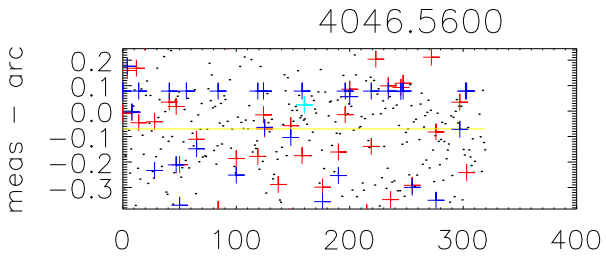

PLATE=2256 MJD=53859 Extraction chi$^2$ for sdR−b1−00039086.fit
BLACK = Final chisq extraction
BLUE = Initial+scattered chisq extraction
GREEN = Initial chisq extraction
$\chi^2$
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

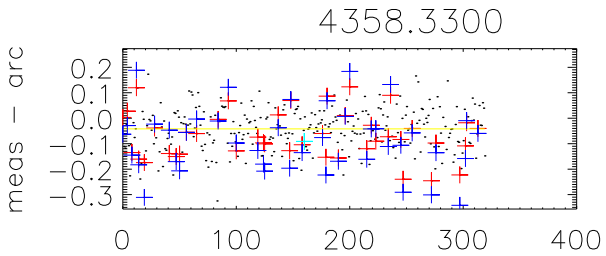

4046.5600
off: −0.05
sig: 0.065
4358.3300
off: −0.09
sig: 0.019
5460.9400
off: 0.09
sig: 0.015
5577.3390
off: 0.08
sig: 0.003
5889.9500
off: 0.16
sig: 0.008
5895.9240
off: 0.14
sig: 0.011

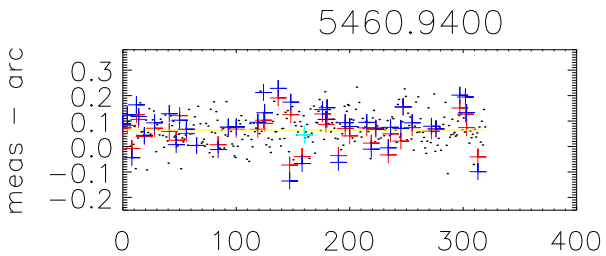

shift(pix)= 0.024
err(pix)= 0.066
oldshift(pix)=−0.050
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

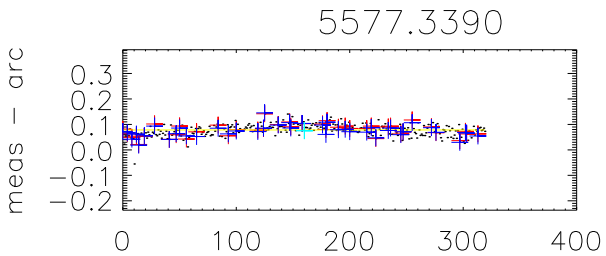

shift(pix)=−0.091
err(pix)= 0.021
oldshift(pix)=−0.092
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

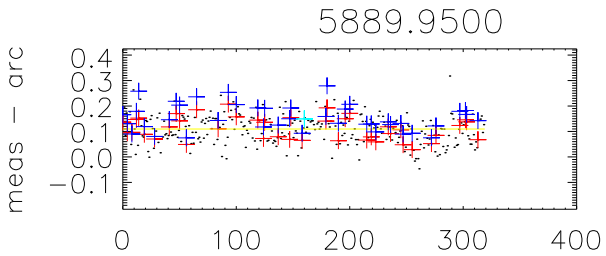

shift(pix)= 0.045
err(pix)= 0.017
oldshift(pix)= 0.085
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

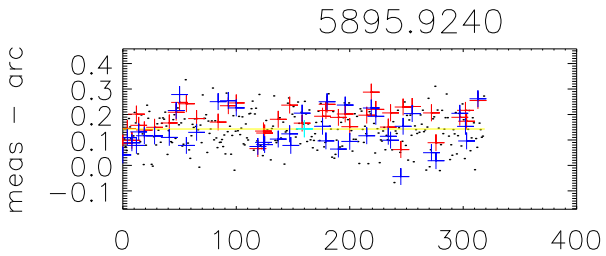

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

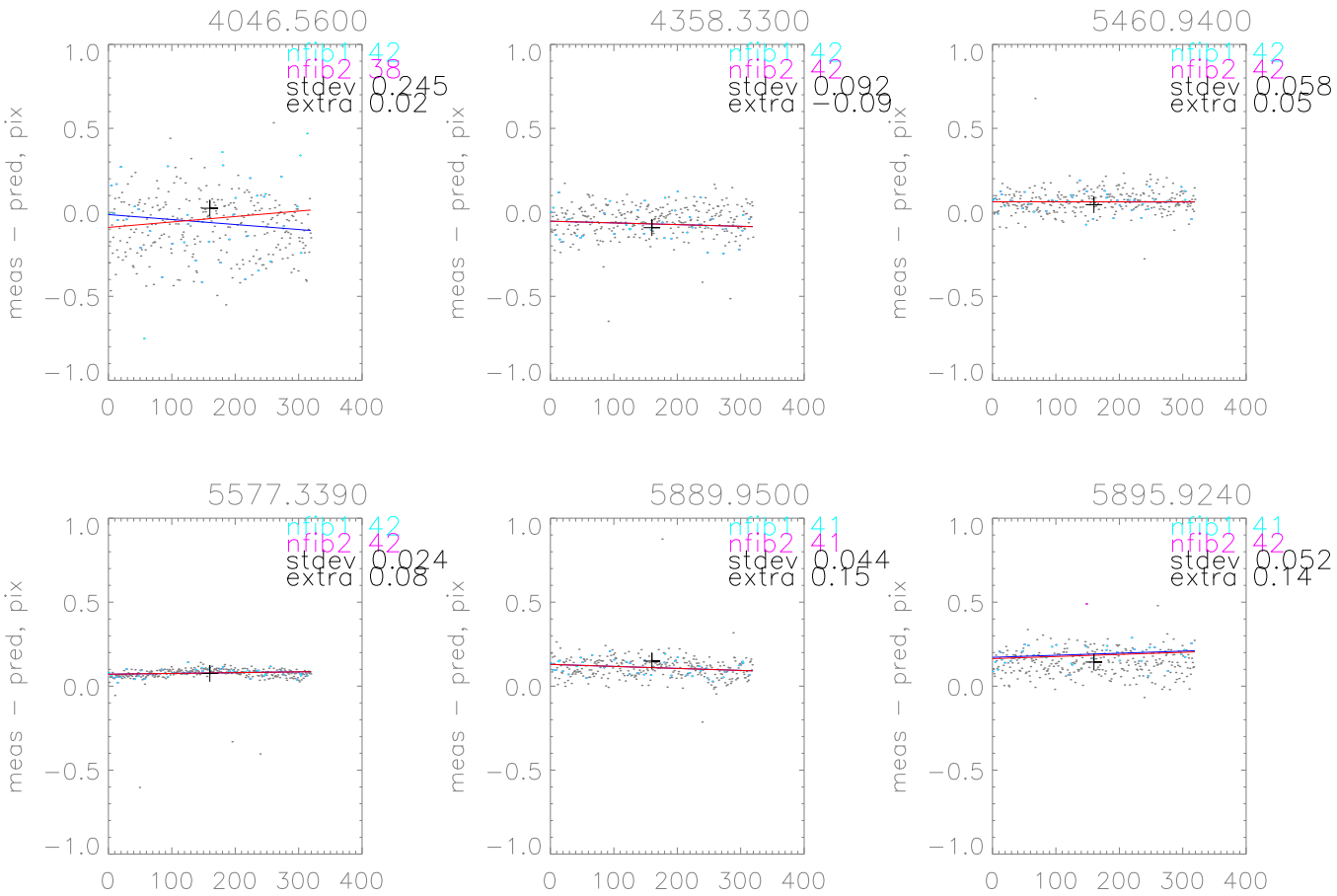

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

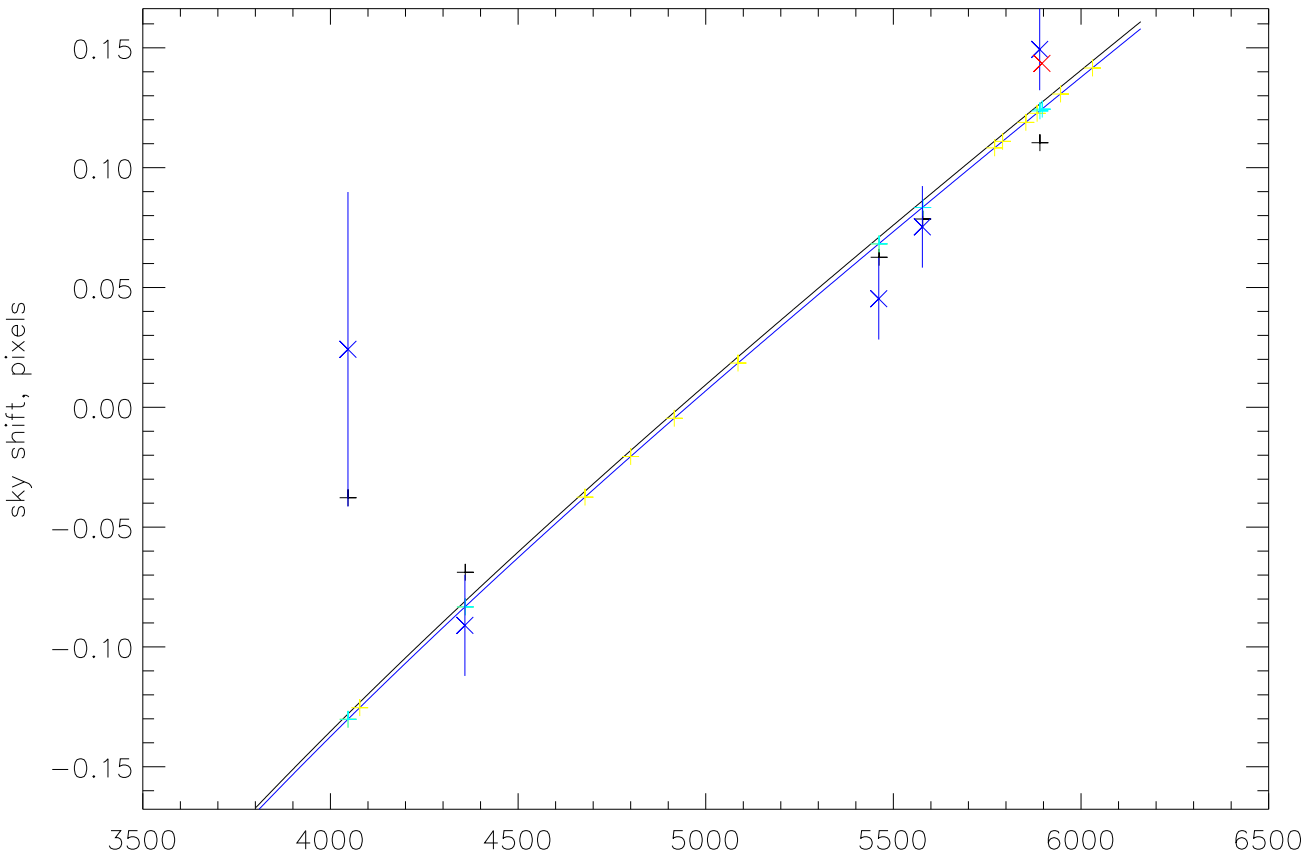

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

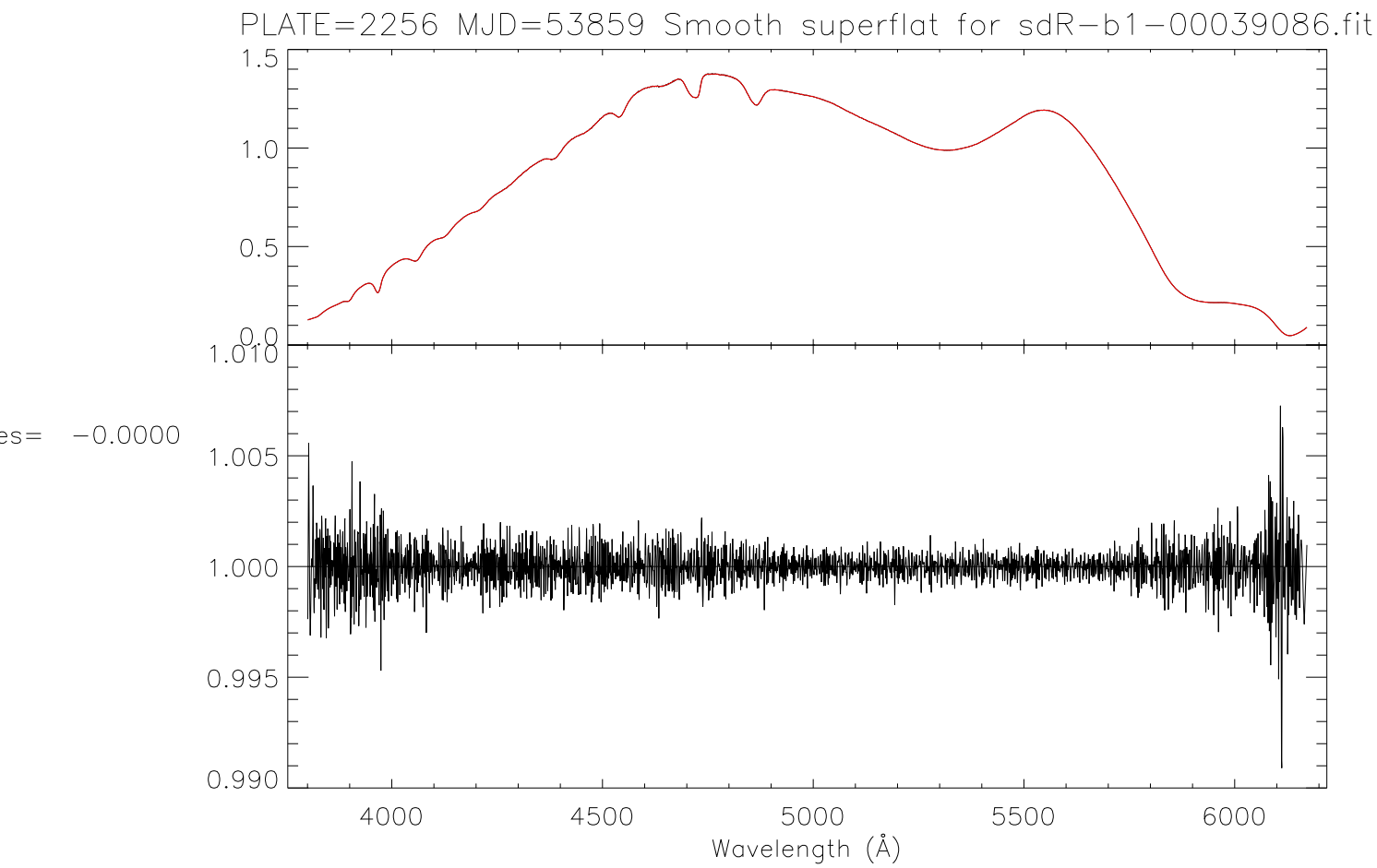

5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

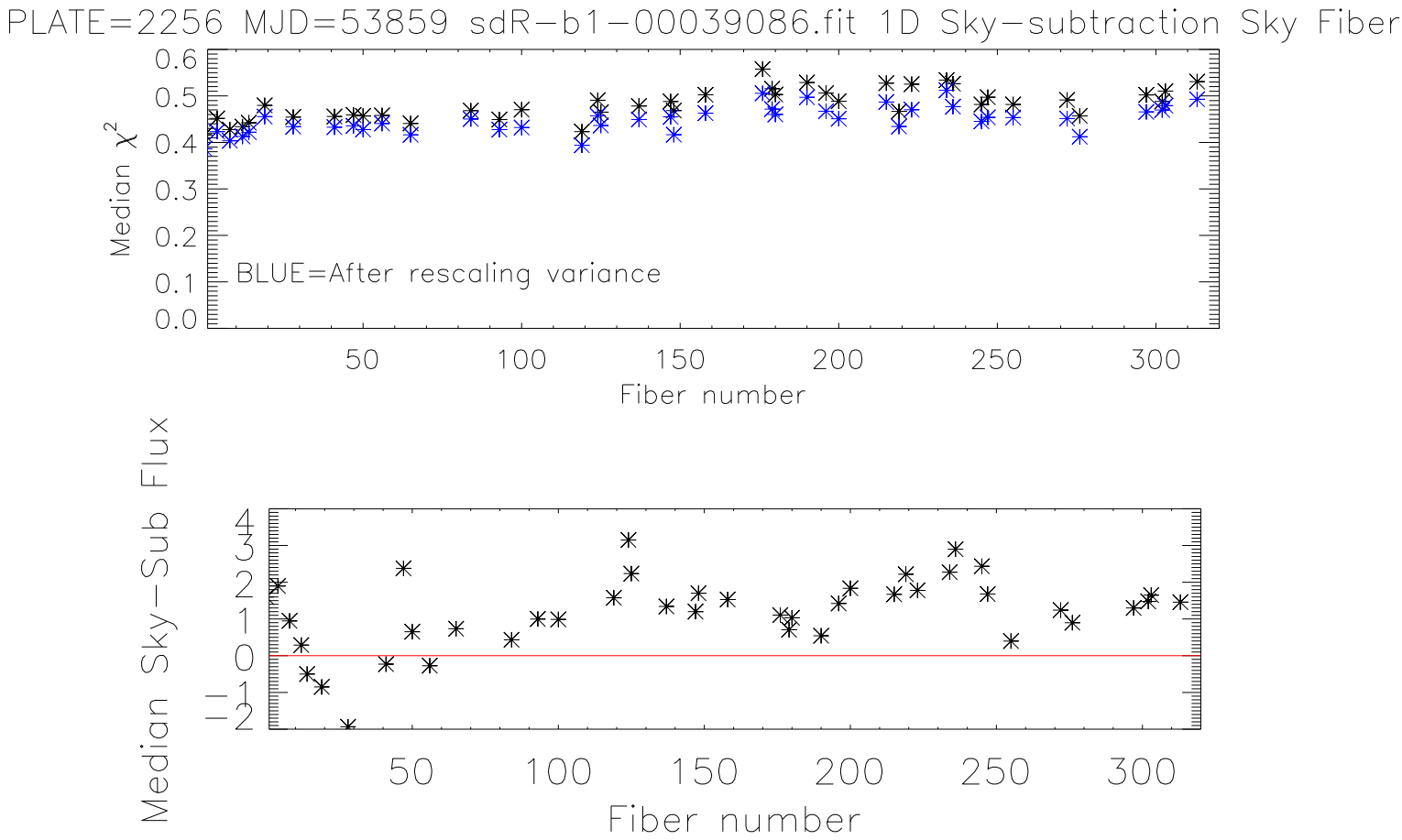

5889.9500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

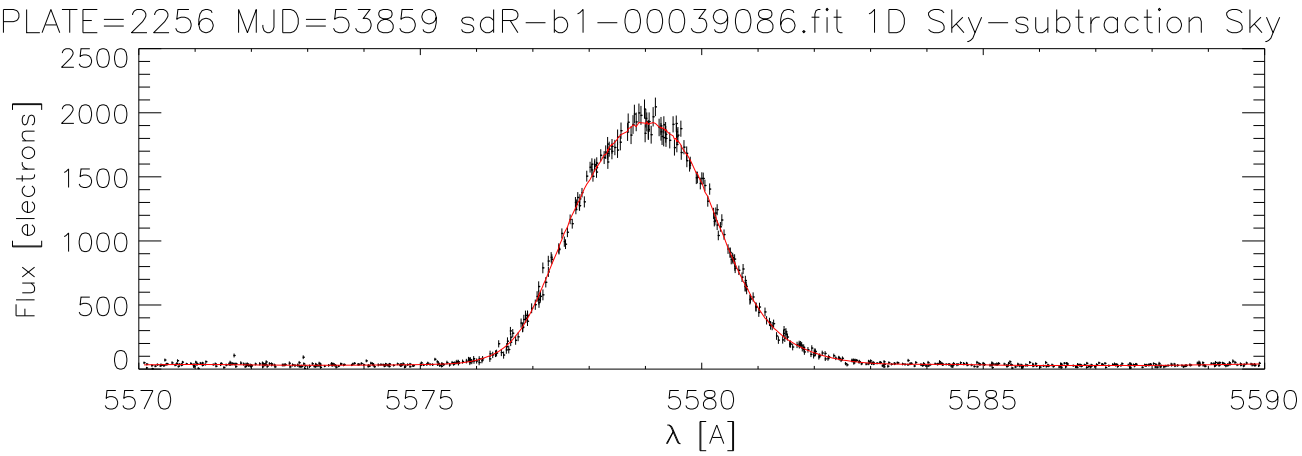

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

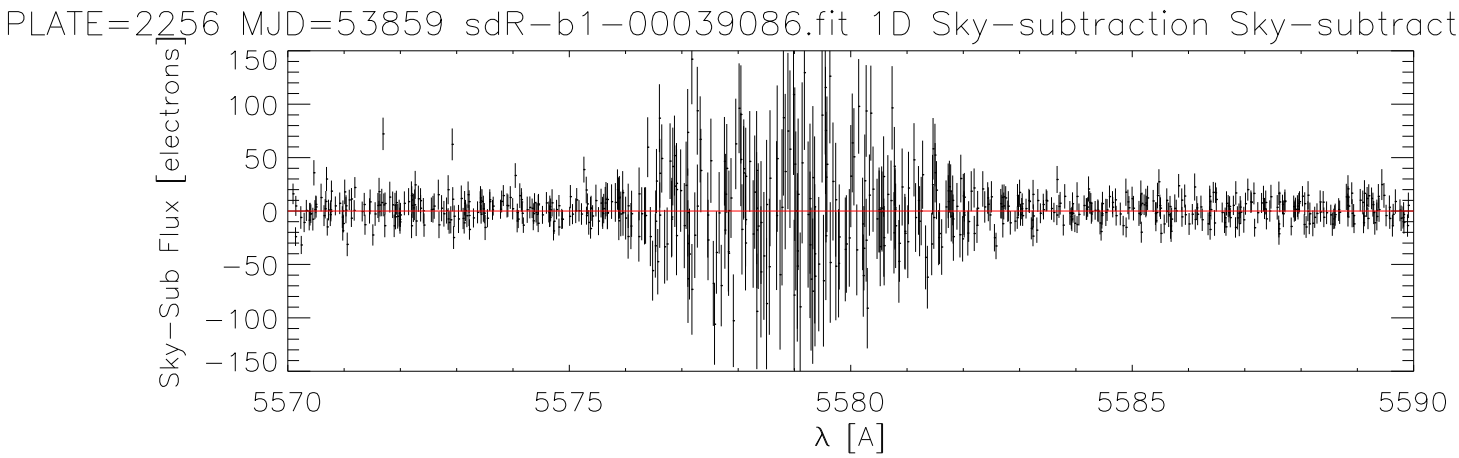

4046.5600
nfib1 42
nfib2 38
stdev 0.245
extra 0.02
4358.3300
nfib1 42
nfib2 42
stdev 0.092
extra −0.09
5460.9400
nfib1 42
nfib2 42
stdev 0.058
extra 0.05
5577.3390
nfib1 42
nfib2 42
stdev 0.024
extra 0.08
5889.9500
nfib1 41
nfib2 41
stdev 0.044
extra 0.15
5895.9240
nfib1 41
nfib2 42
stdev 0.052
extra 0.14
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

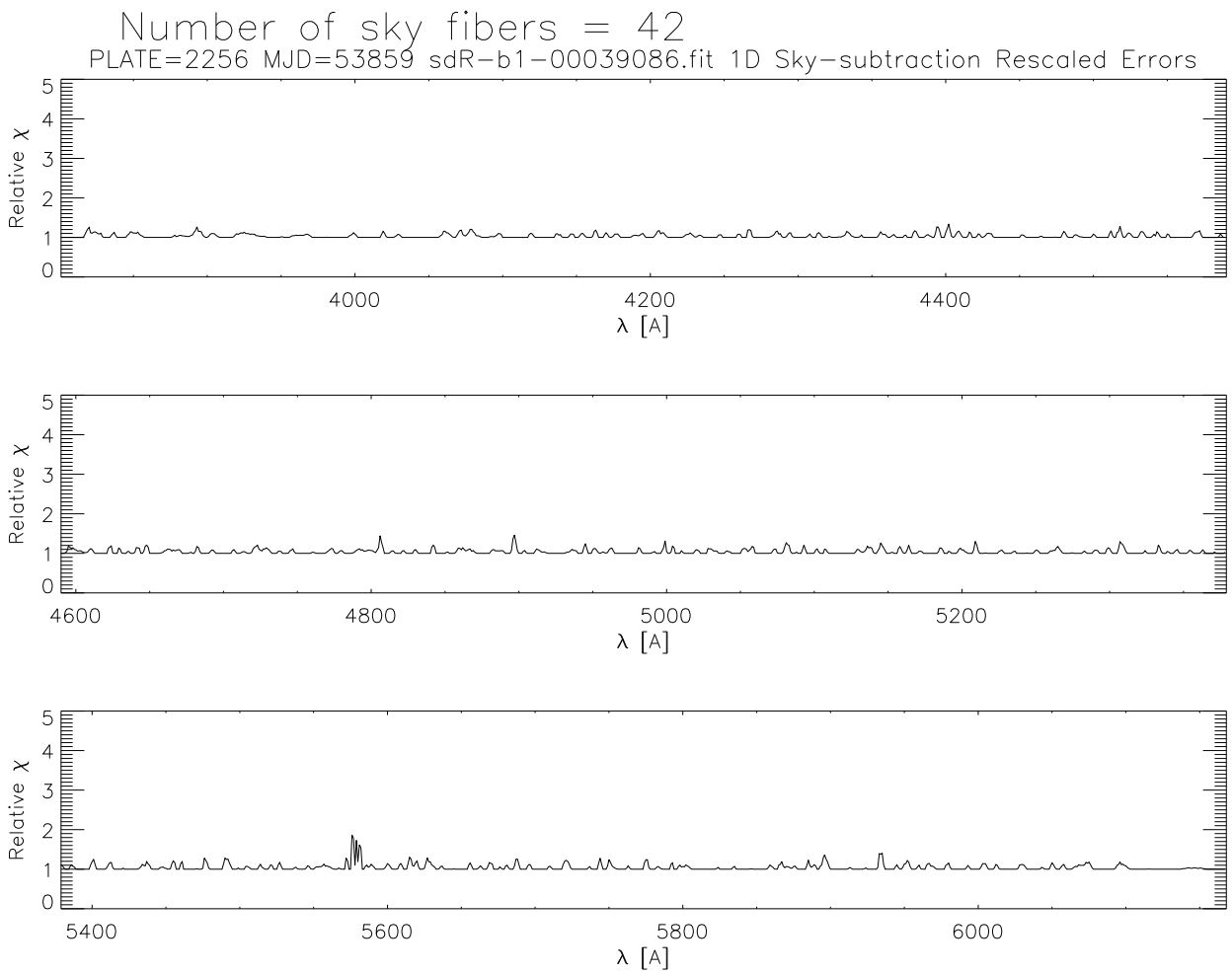

sky shift, pixels
0.15
0.10
0.05
0.00
−0.05
−0.10
−0.15
3500
4000
4500
5000
5500
6000
6500

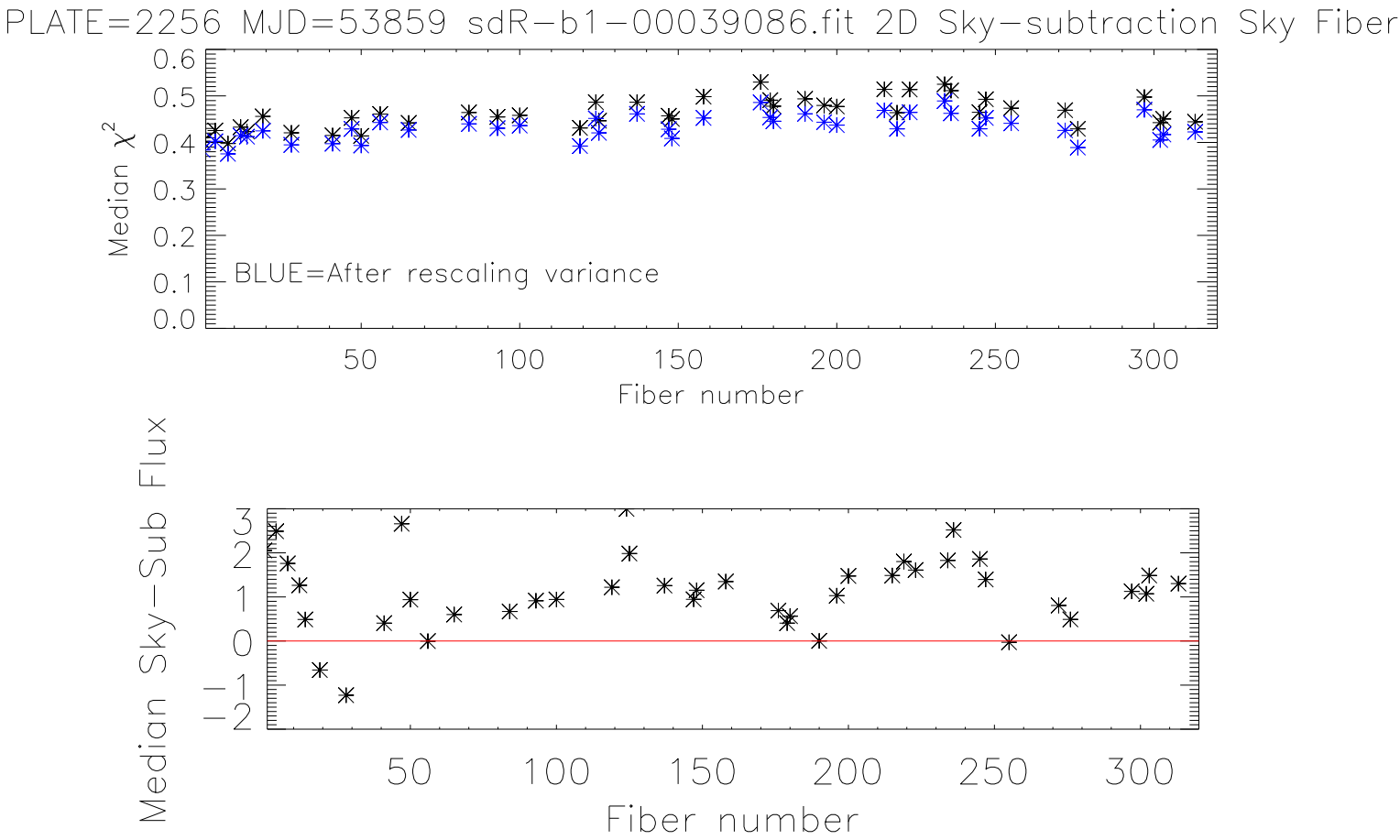

PLATE=2256 MJD=53859 Smooth superflat for sdR-b1-00039086.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

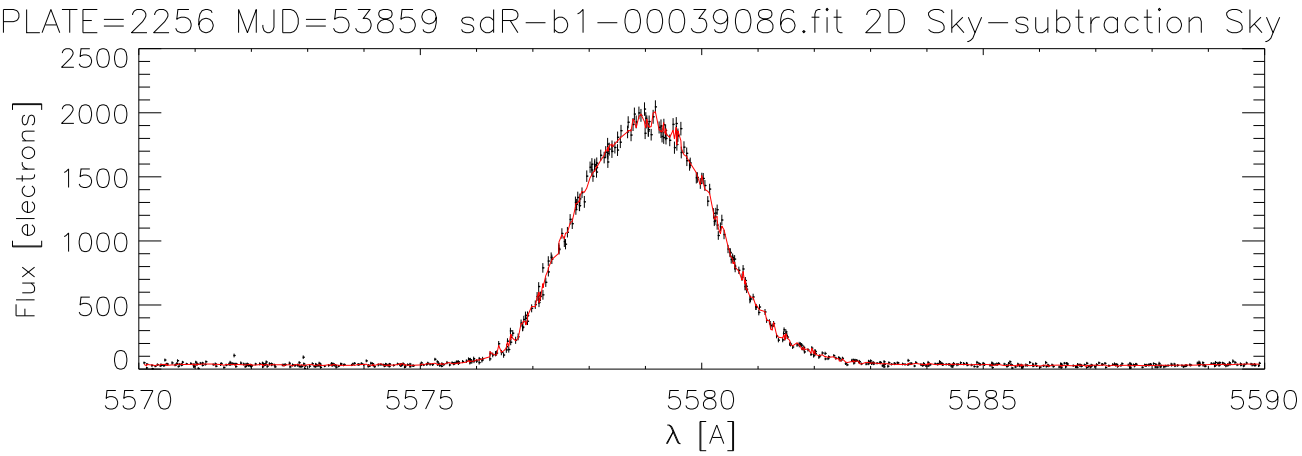

PLATE=2256 MJD=53859 sdR-b1-00039086.fit 1D Sky-subtraction Sky Fiber
Median $\chi^2$
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

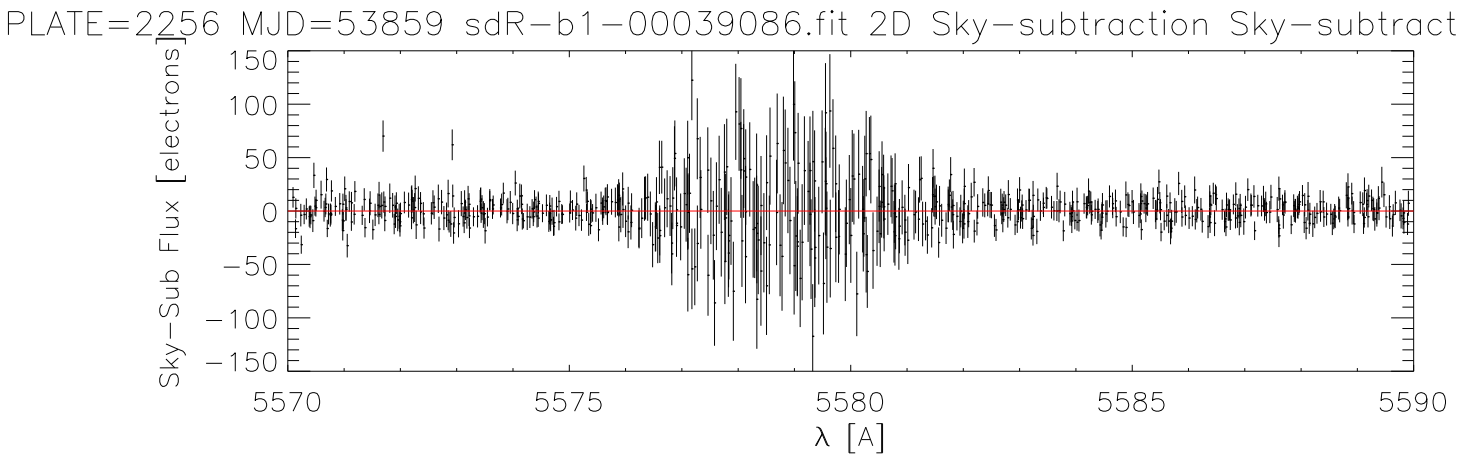

PLATE=2256 MJD=53859 sdR-b1-00039086.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

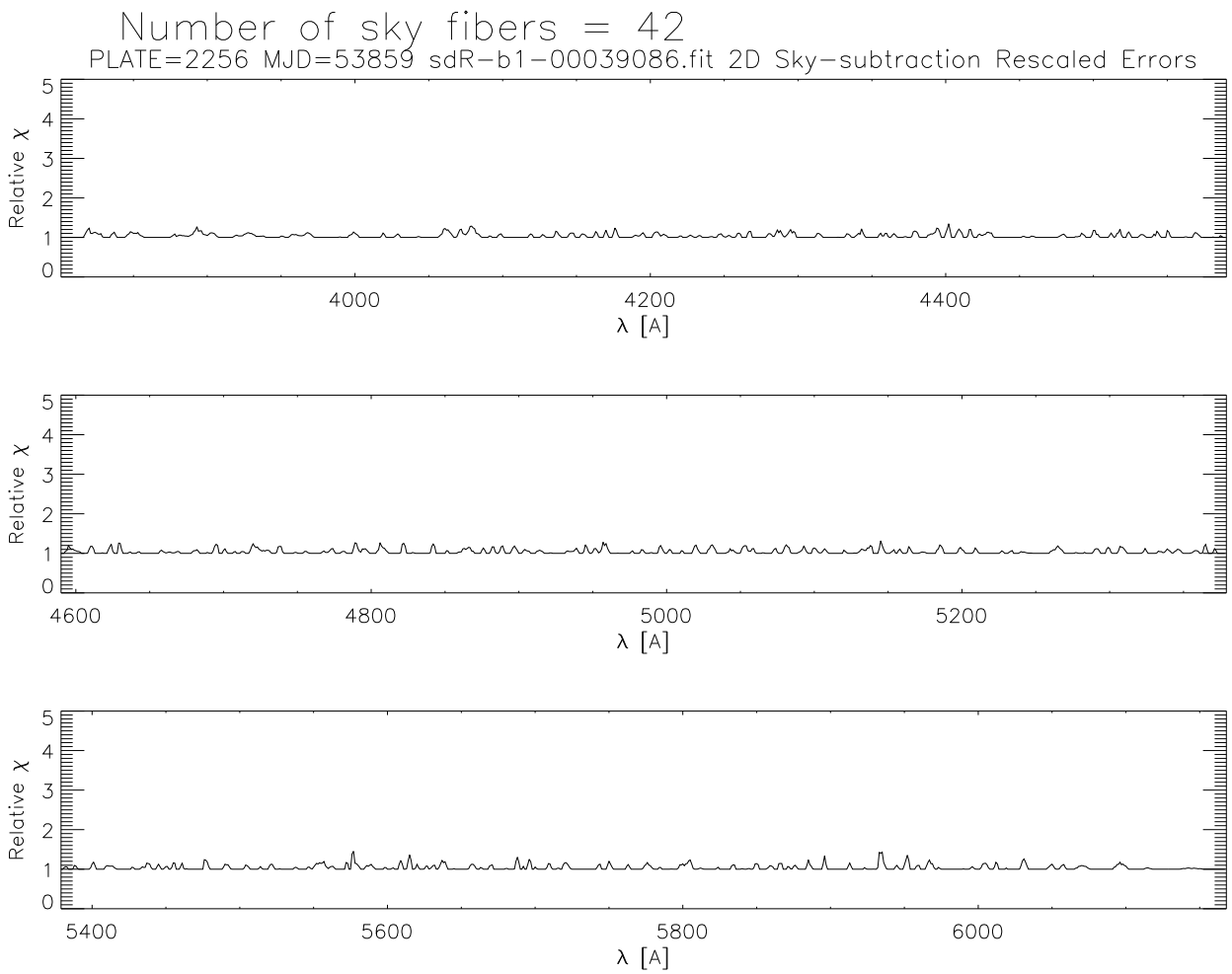

PLATE=2256 MJD=53859 sdR-b1-00039086.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
5570
5575
5580
5585
5590
λ [A]

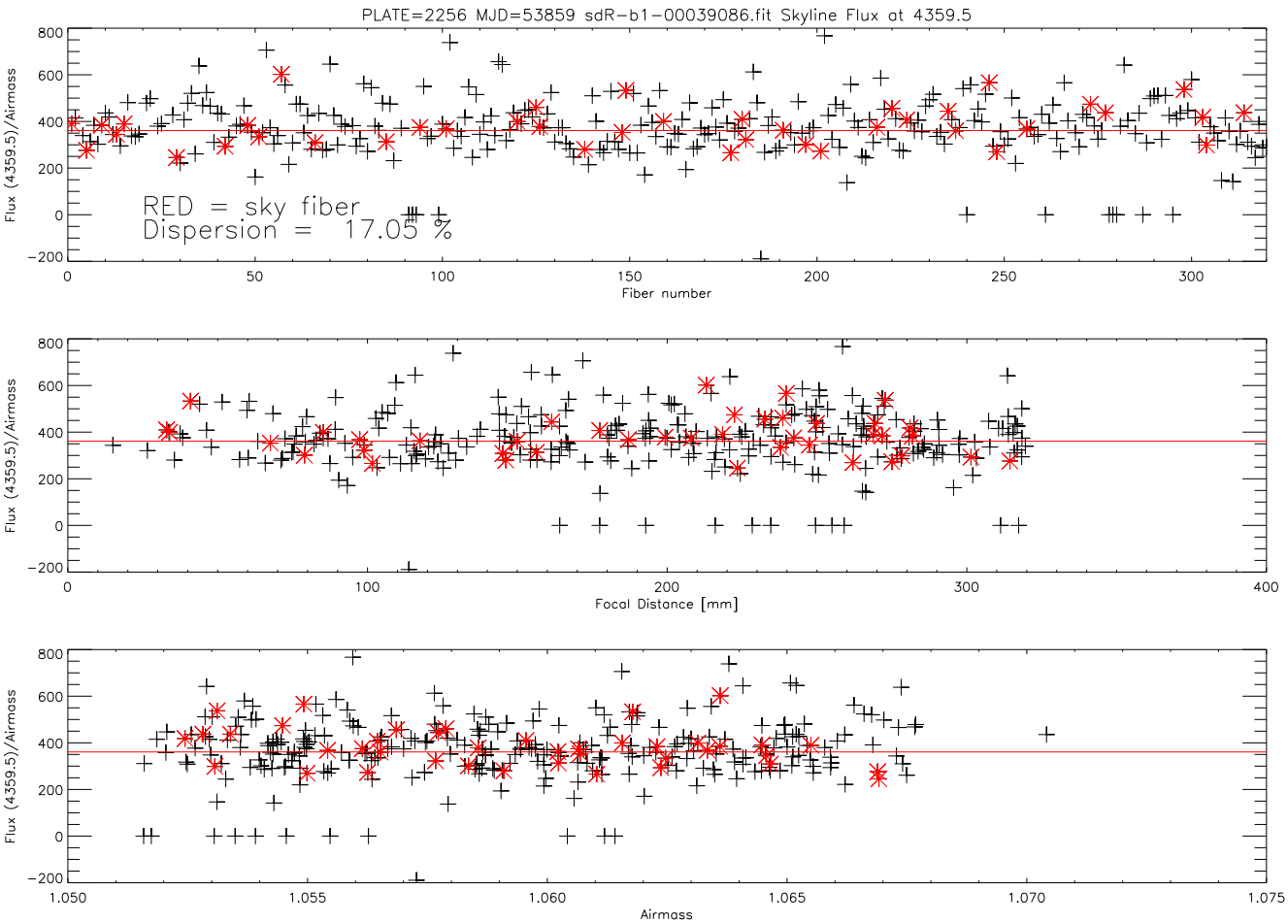

Number of sky fibers = 42
PLATE=2256 MJD=53859 sdR-b1-00039086.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

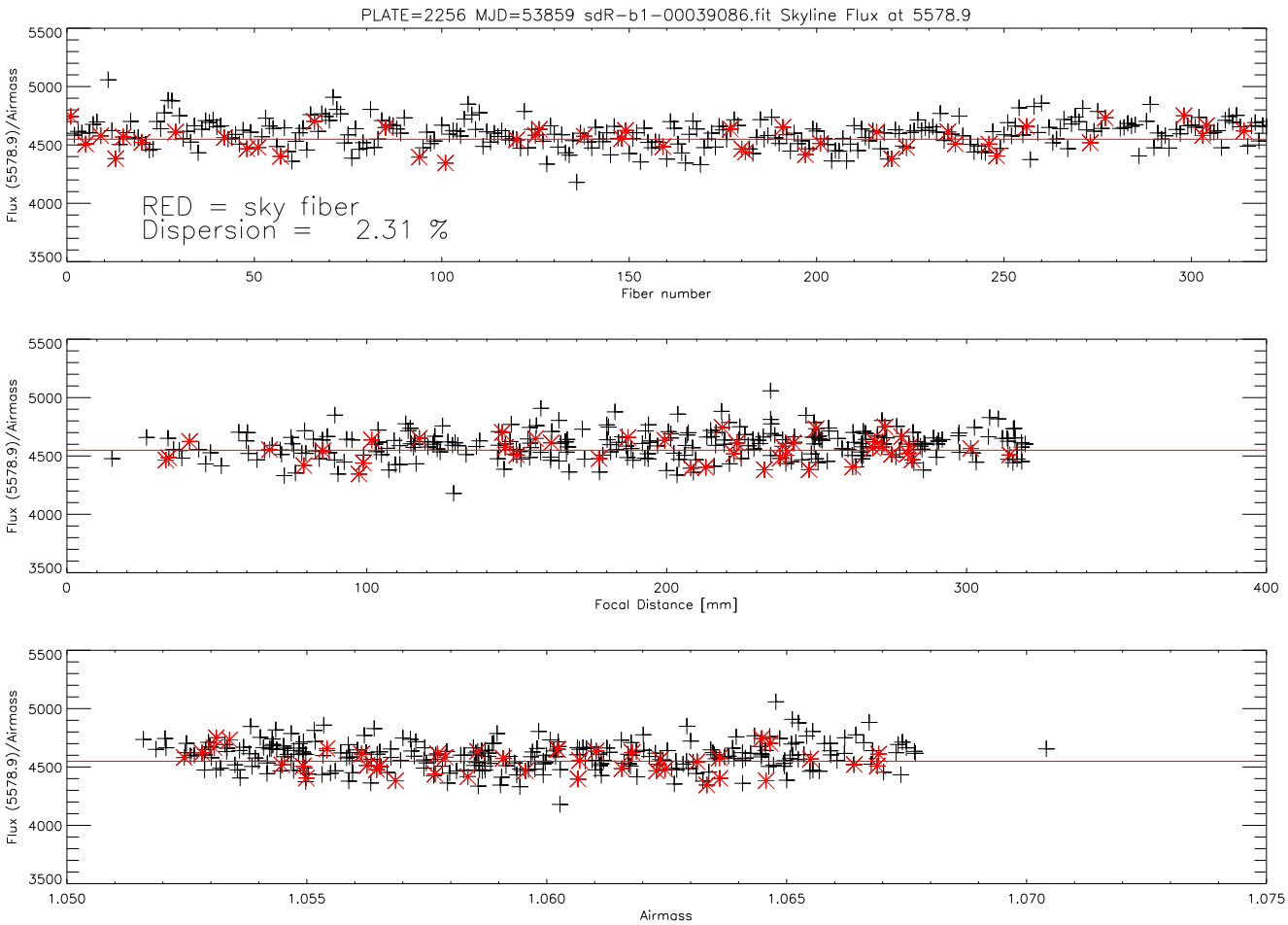

PLATE=2256 MJD=53859 sdR-b1-00039086.fit 2D Sky-subtraction Sky Fiber
Median $\chi^2$
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
50
100
150
200
250
300
Fiber number

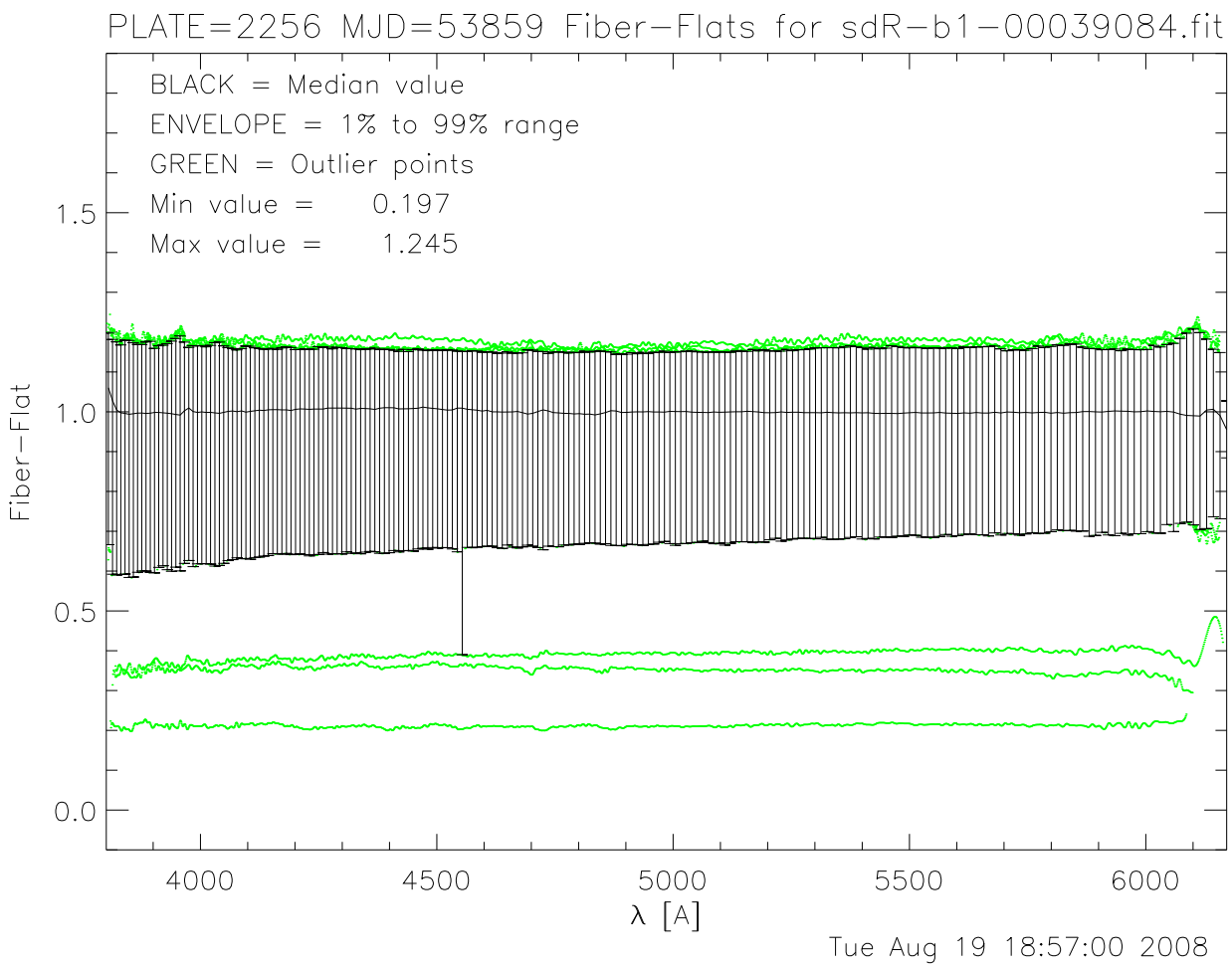

PLATE=2256 MJD=53859 sdR-b1-00039086.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

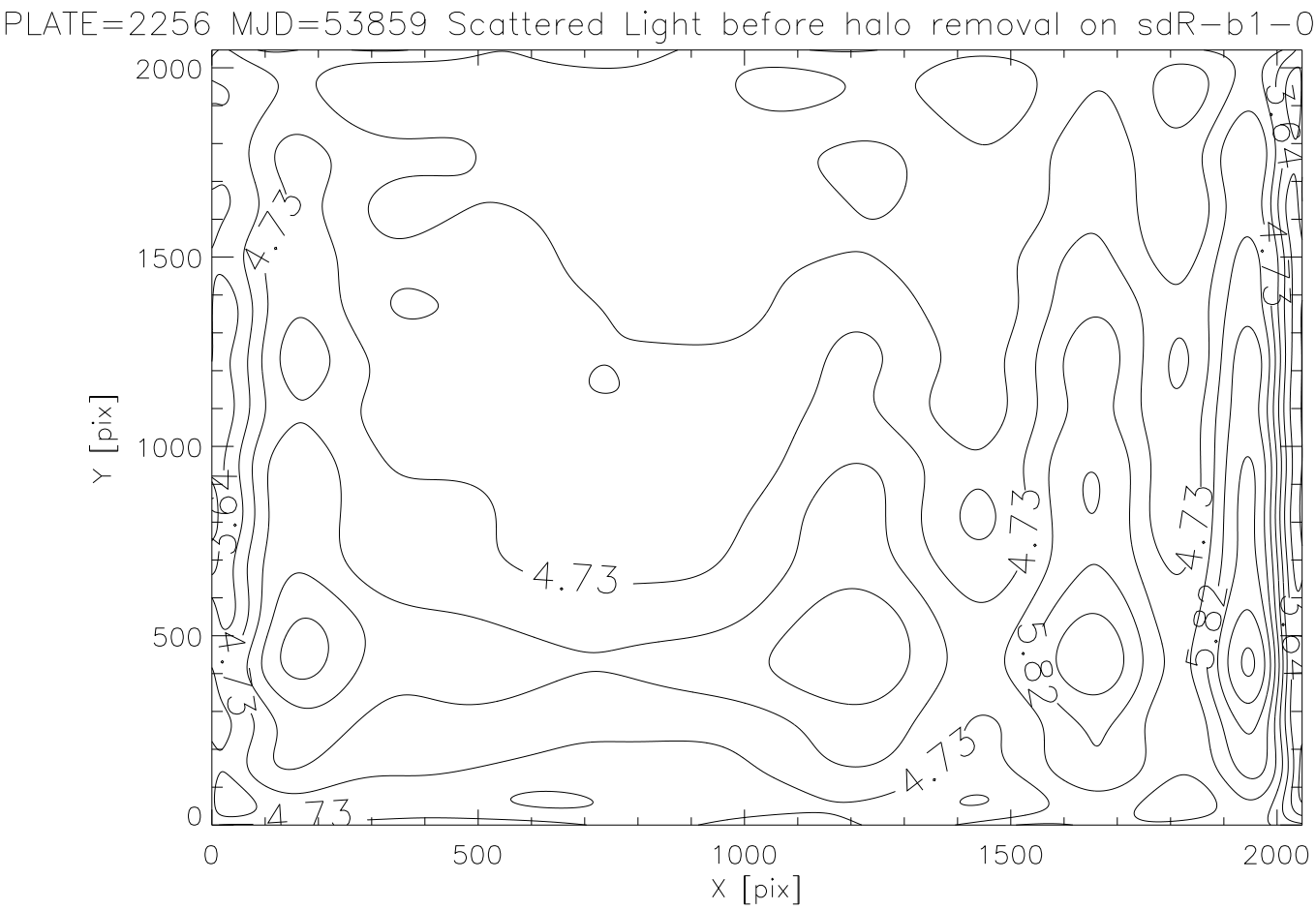

PLATE=2256 MJD=53859 sdR-b1-00039086.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
−50
−100
−150
5570
5575
5580
5585
5590
λ [A]

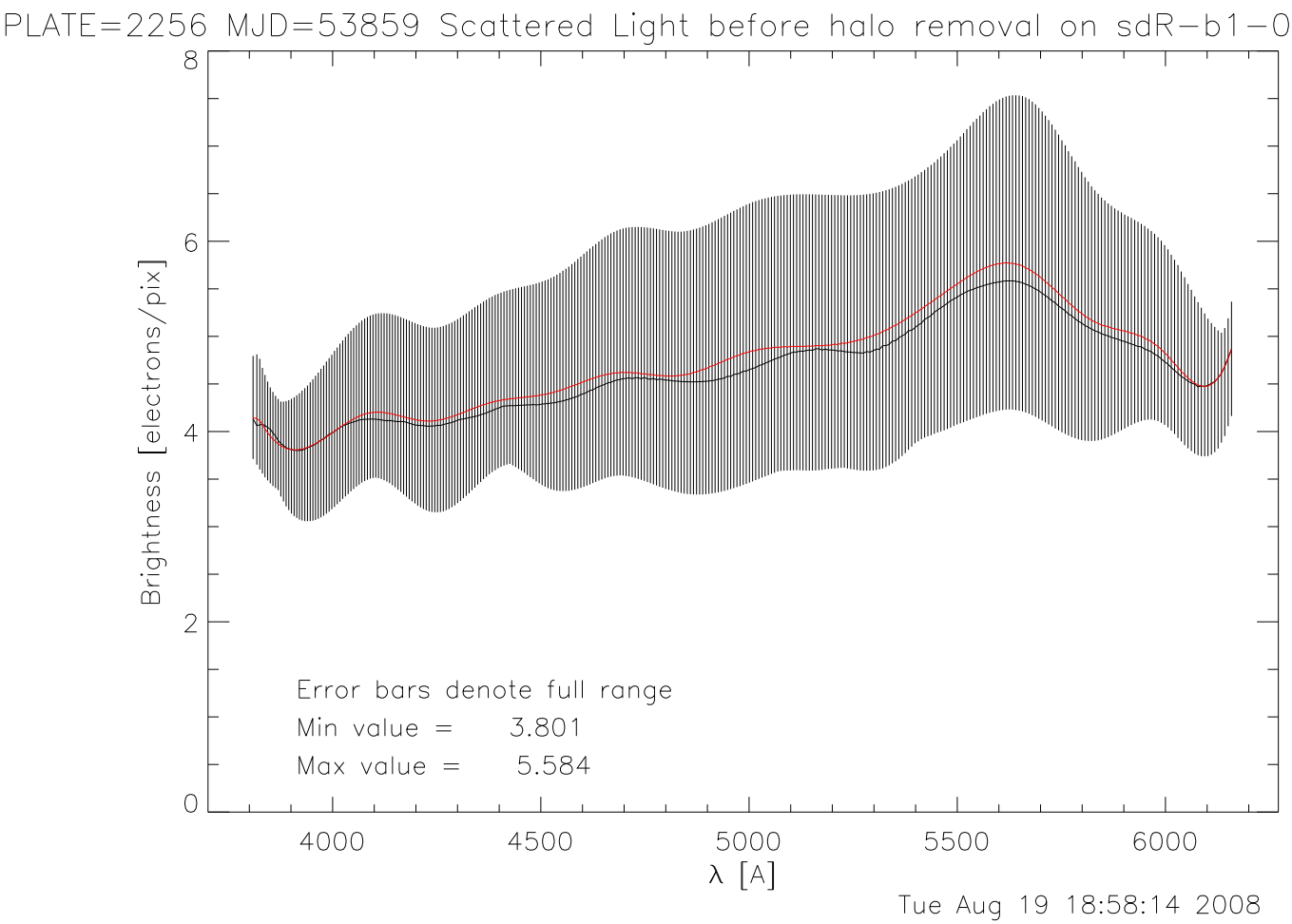

Number of sky fibers = 42
PLATE=2256 MJD=53859 sdR-b1-00039086.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

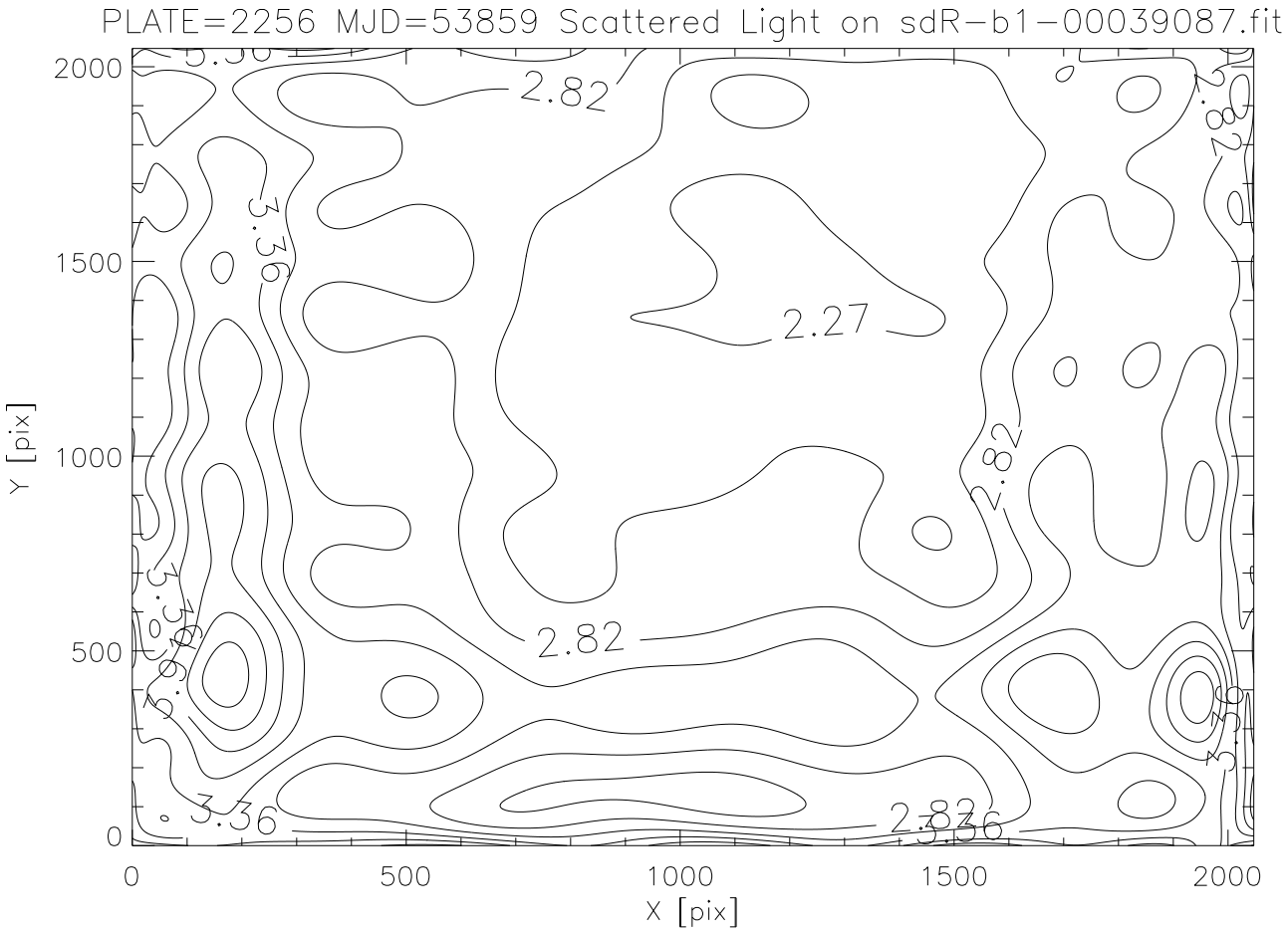

PLATE=2256 MJD=53859 sdR-b1-00039086.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 17.05 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

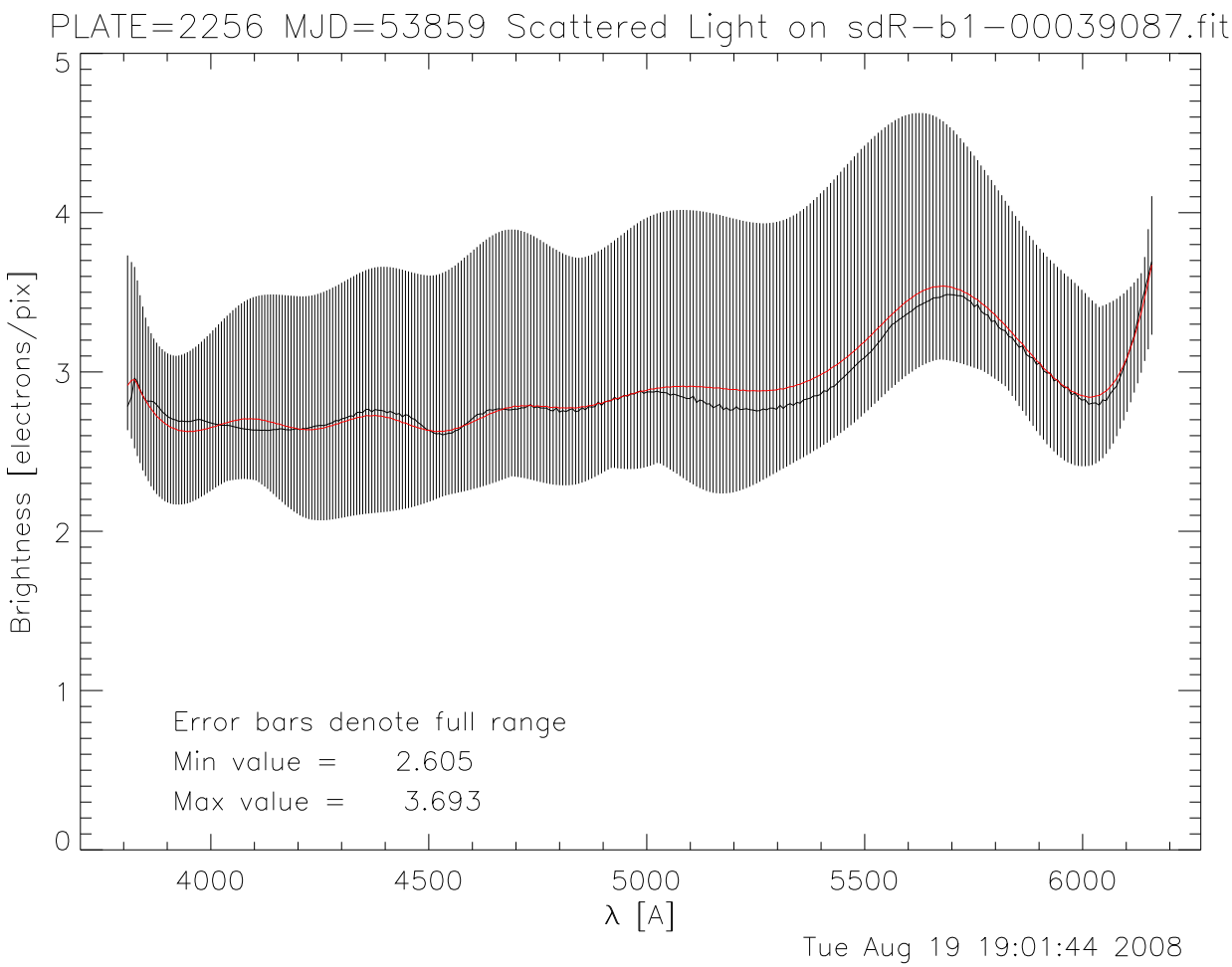

PLATE=2256 MJD=53859 sdR-b1-00039086.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.31 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

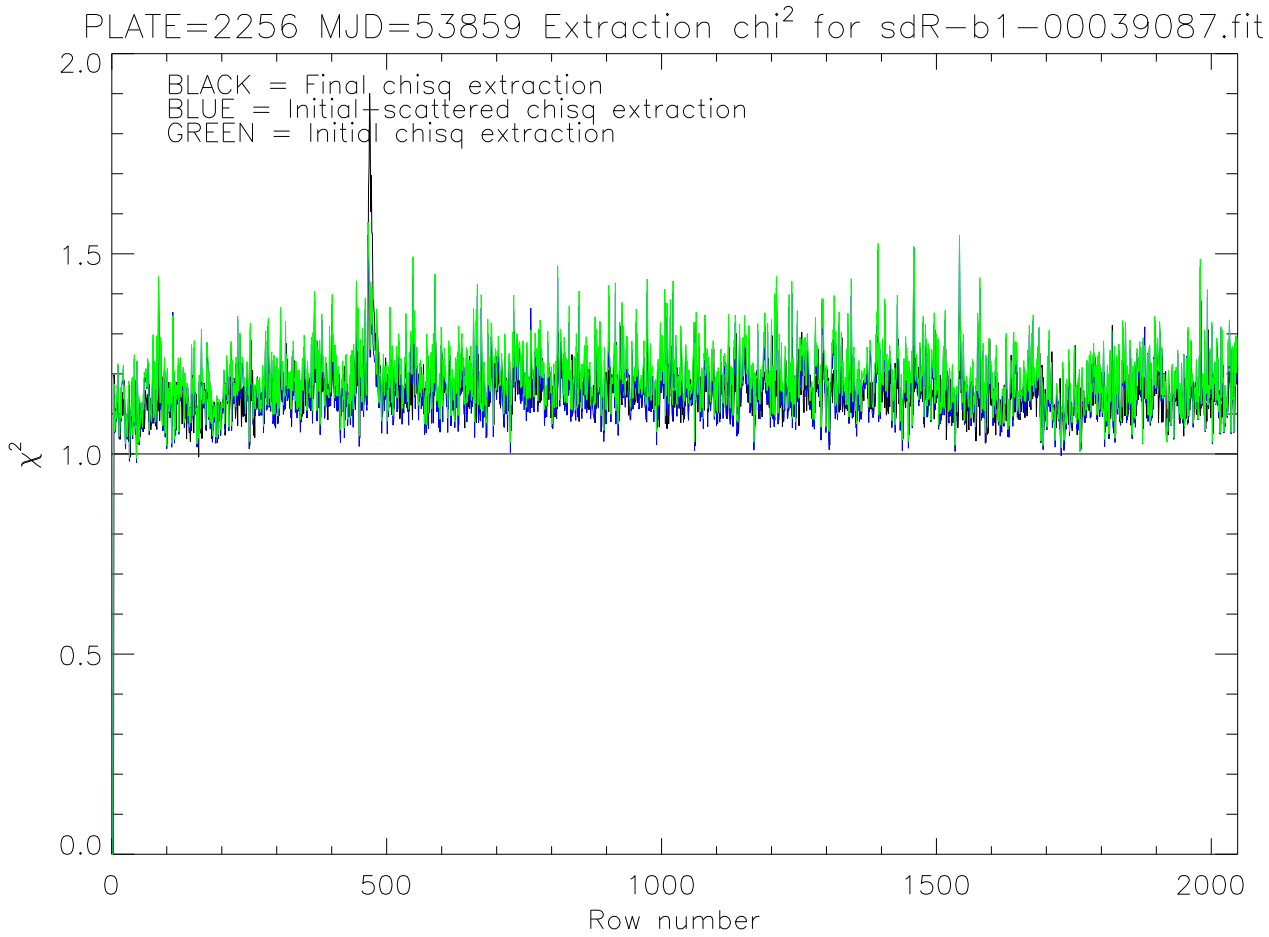

PLATE=2256 MJD=53859 Fiber-Flats for sdR-b1-00039084.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.197
Max value = 1.245
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Tue Aug 19 18:57:00 2008

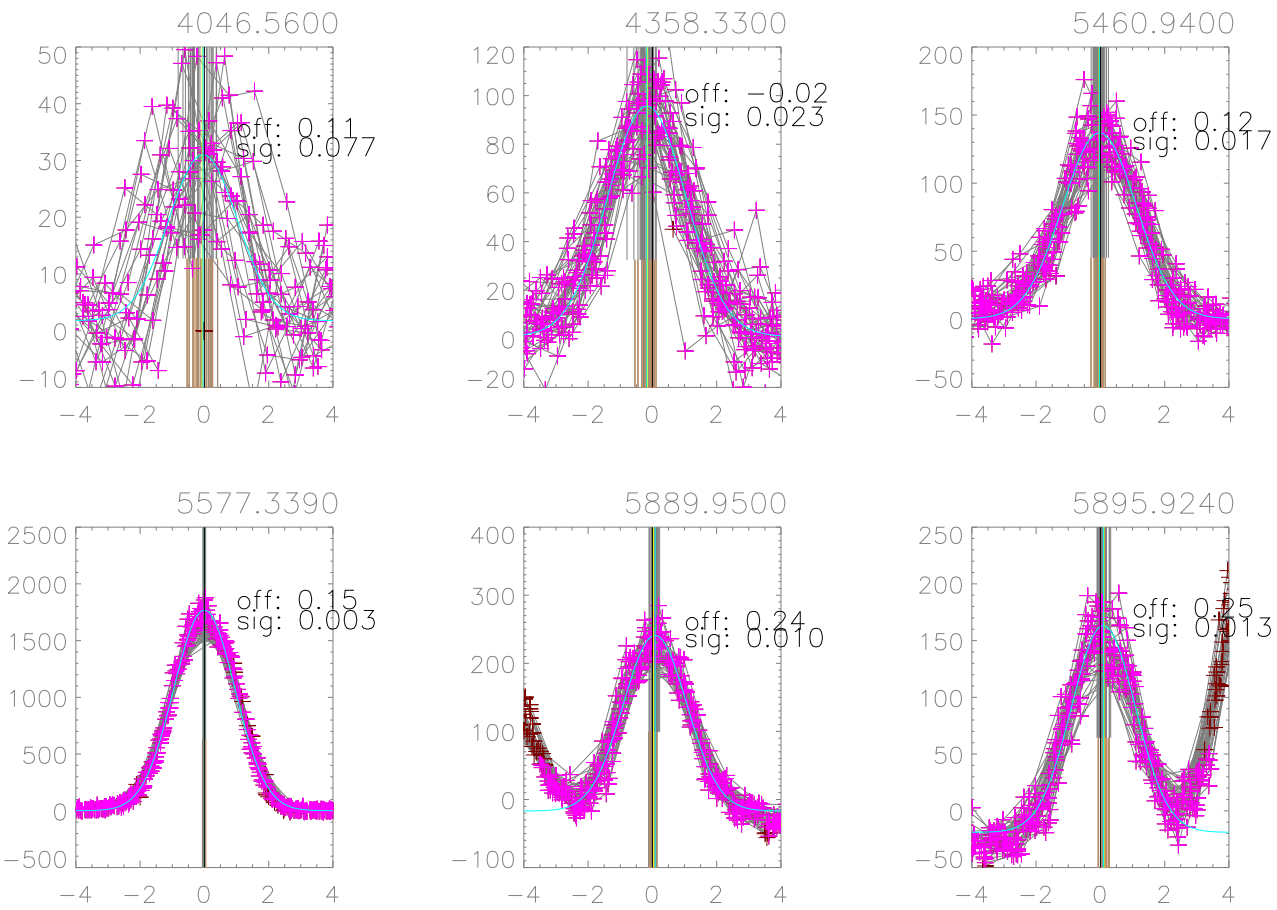

PLATE=2256 MJD=53859 Scattered Light before halo removal on sdR−b1−00039087.f
Y [pix]
X [pix]
0
500
1000
1500
2000
4.73
5.82
3.64

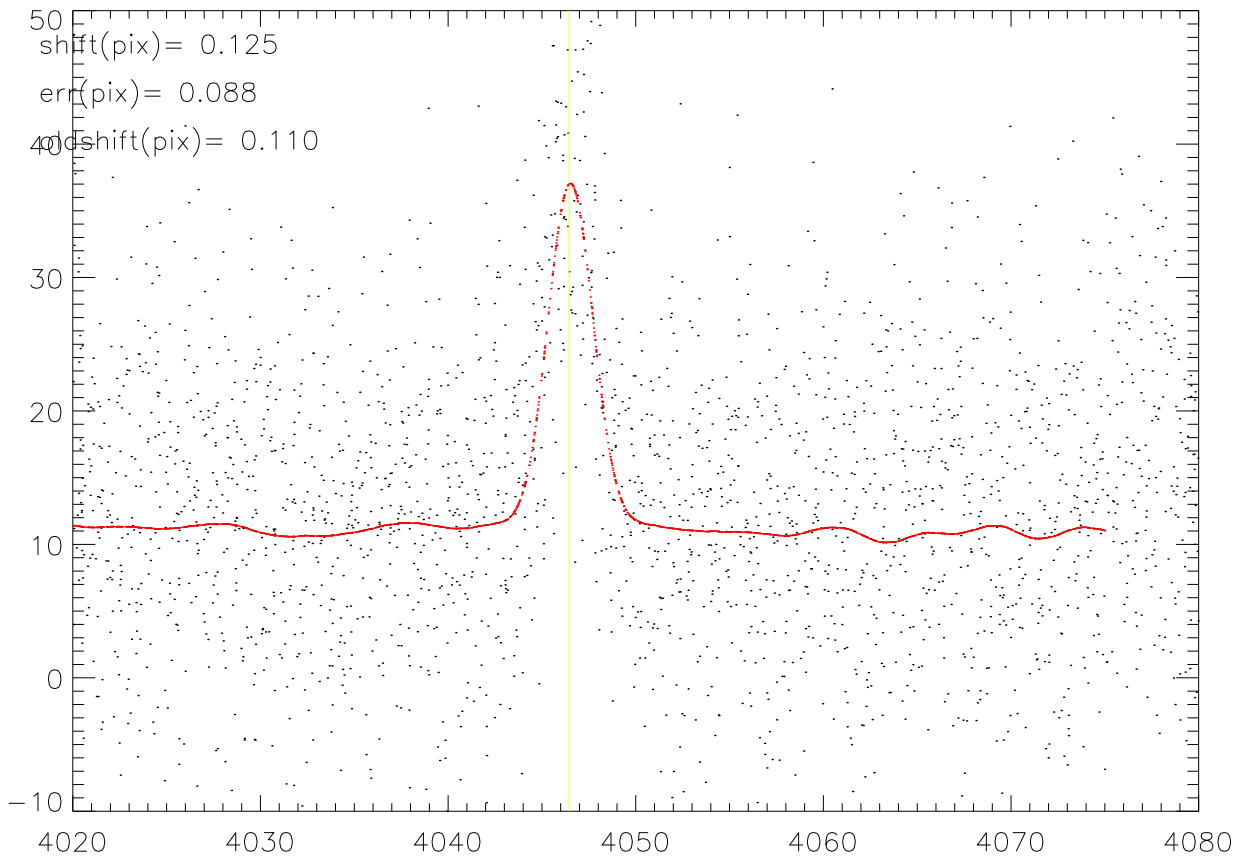

PLATE=2256 MJD=53859 Scattered Light before halo removal on sdR−b1−00039087.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.801
Max value = 5.584
Tue Aug 19 18:58:14 2008

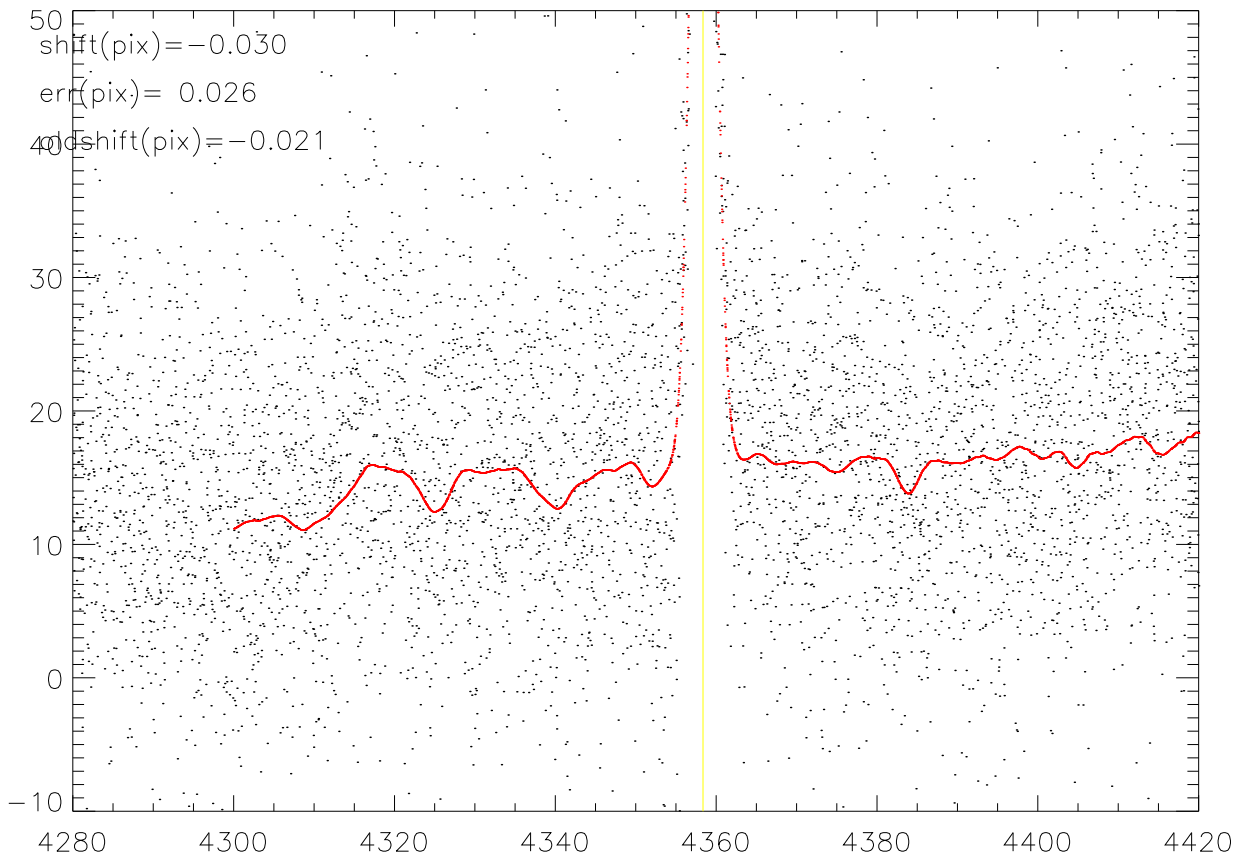

PLATE=2256 MJD=53859 Scattered Light on sdR-b1-00039087.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
2.82
2.27
3.36

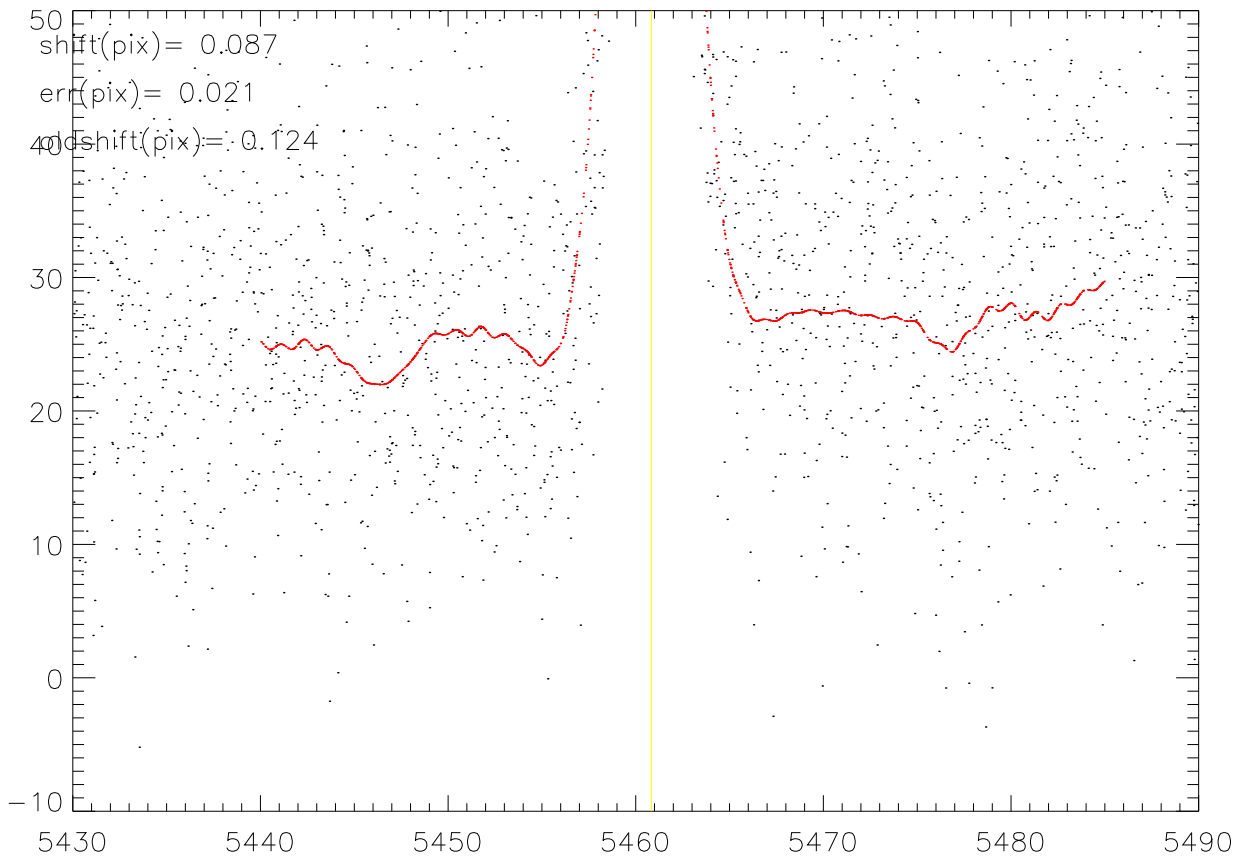

PLATE=2256 MJD=53859 Scattered Light on sdR-b1-00039087.fit
Brightness [electrons/pix]
0
1
2
3
4
5
Error bars denote full range
Min value = 2.605
Max value = 3.693
4000
4500
5000
5500
6000
λ [A]
Tue Aug 19 19:01:44 2008

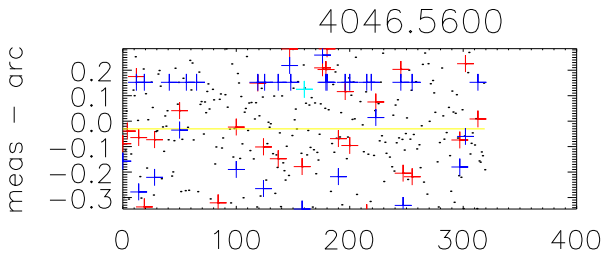

PLATE=2256 MJD=53859 Extraction chi$^2$ for sdR-b1-00039087.fit
BLACK = Final chisq extraction
BLUE = Initial+scattered chisq extraction
GREEN = Initial chisq extraction
$\chi^2$
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

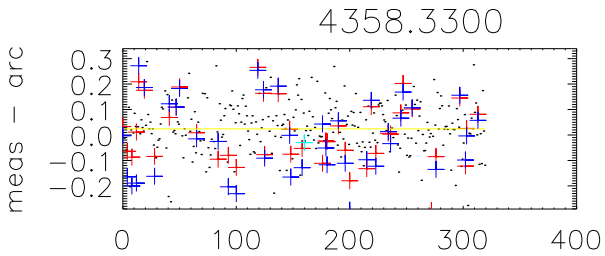

4046.5600
off: 0.11
sig: 0.077
4358.3300
off: −0.02
sig: 0.023
5460.9400
off: 0.12
sig: 0.017
5577.3390
off: 0.15
sig: 0.003
5889.9500
off: 0.24
sig: 0.010
5895.9240
off: 0.25
sig: 0.013

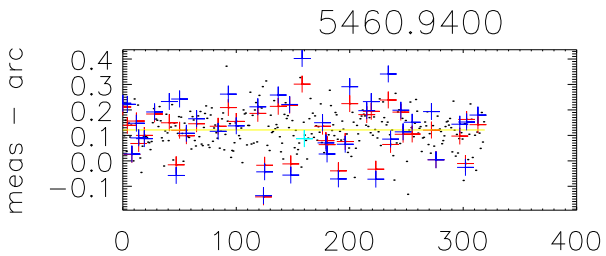

shift(pix)= 0.125
err(pix)= 0.088
oldshift(pix)= 0.110
50
40
30
20
10
0
−10
4020
4030
4040
4050
4060
4070
4080

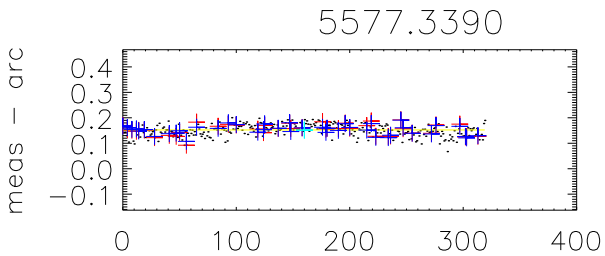

shift(pix)=−0.030
err(pix)= 0.026
oldshift(pix)=−0.021
50
40
30
20
10
0
−10
4280
4300
4320
4340
4360
4380
4400
4420

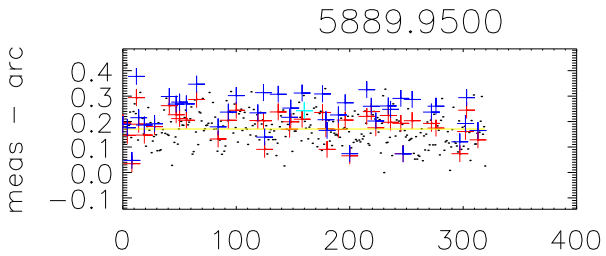

shift(pix)= 0.087
err(pix)= 0.021
oldshift(pix)= 0.124
50
40
30
20
10
0
−10
5430
5440
5450
5460
5470
5480
5490

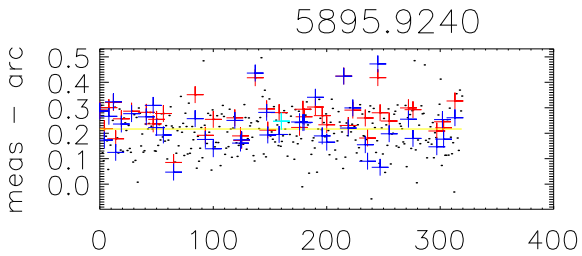

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

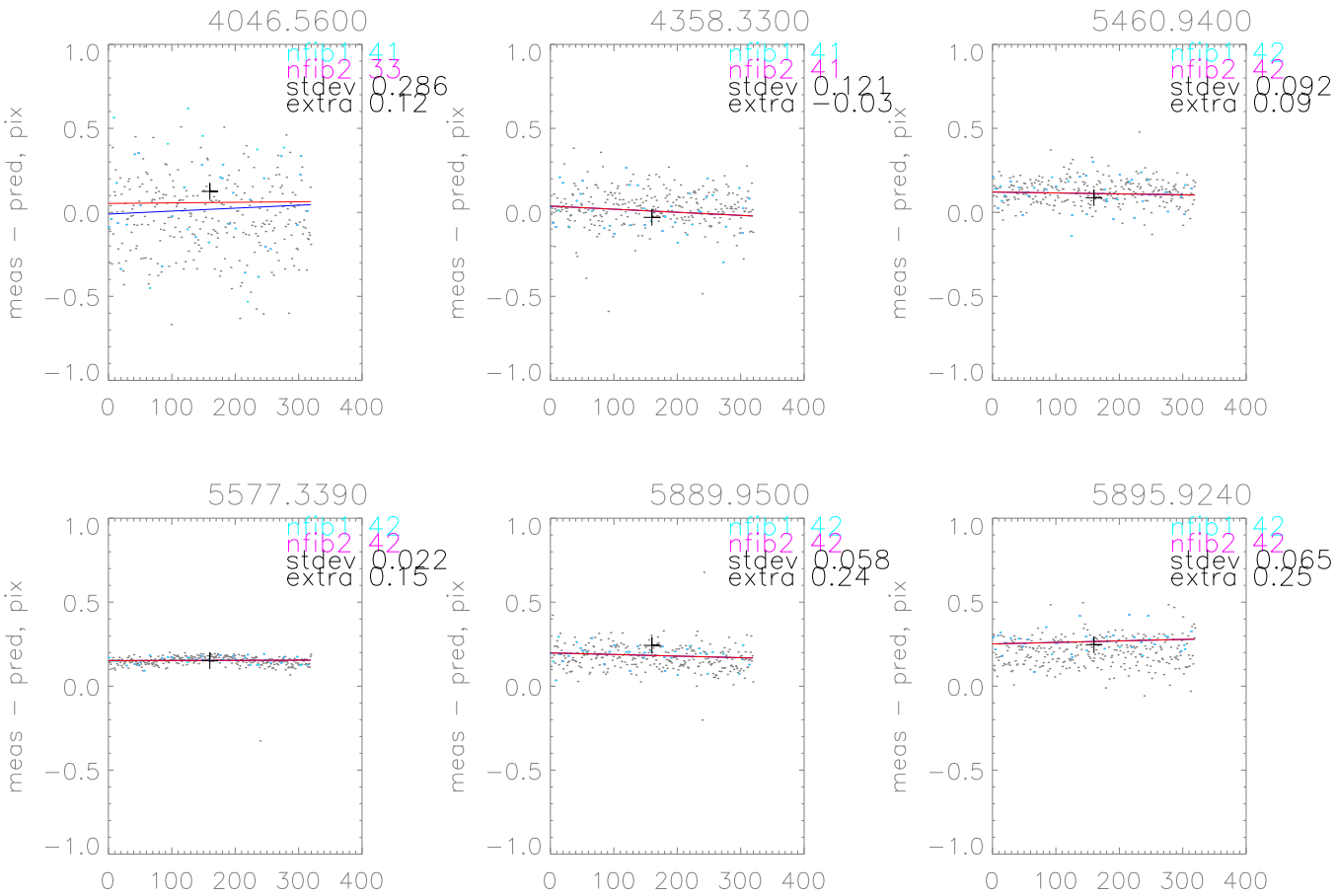

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

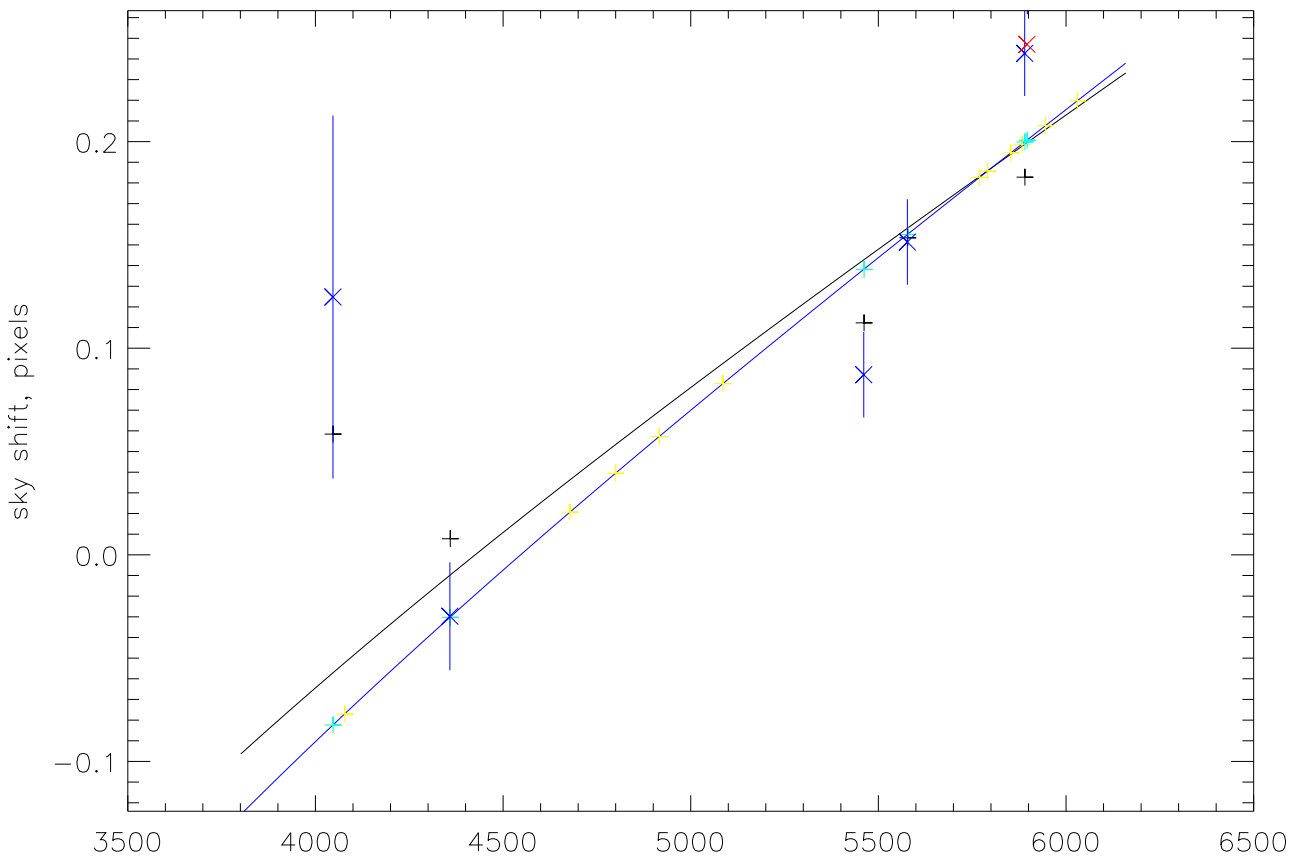

5460.9400
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

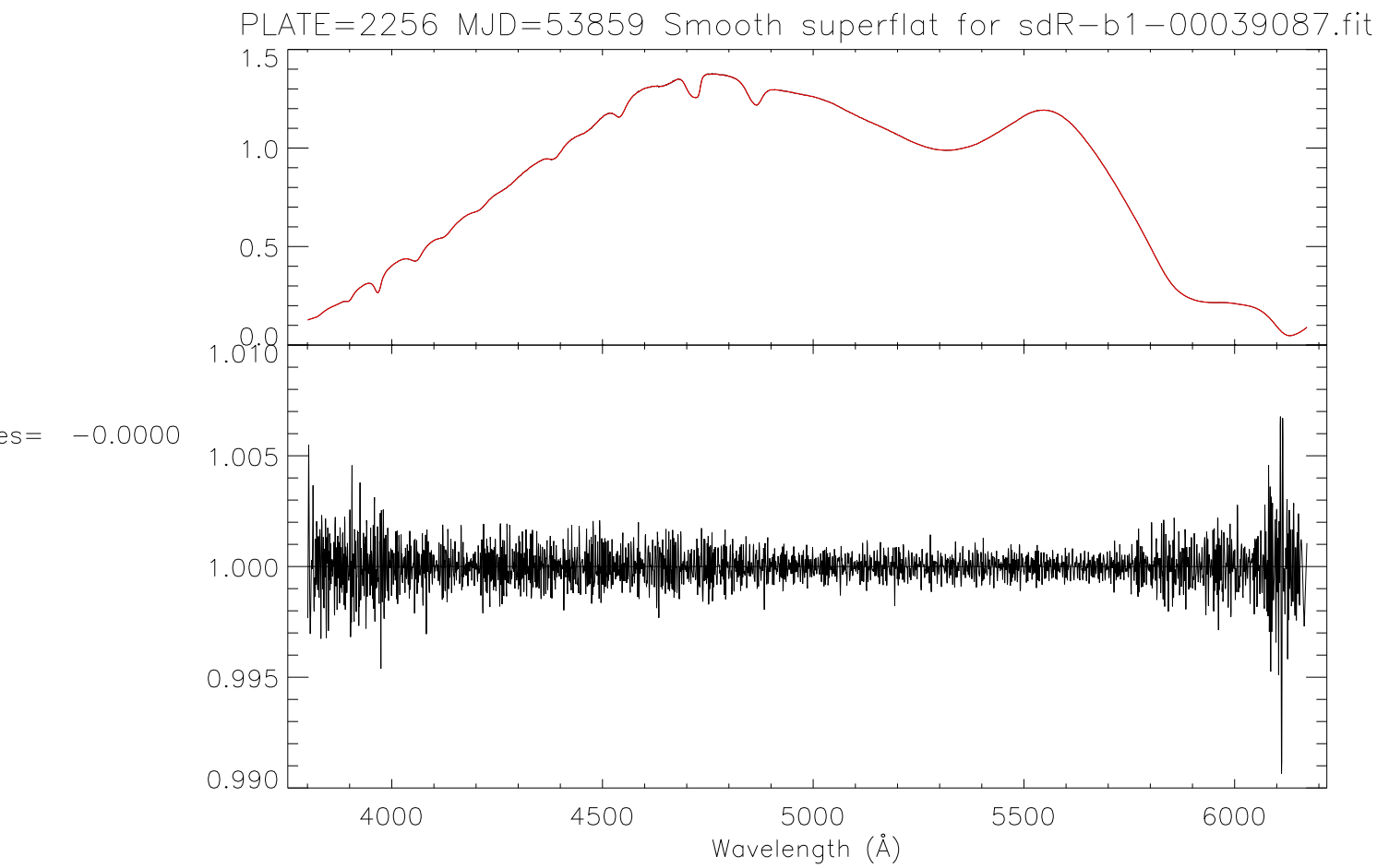

5577.3390
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

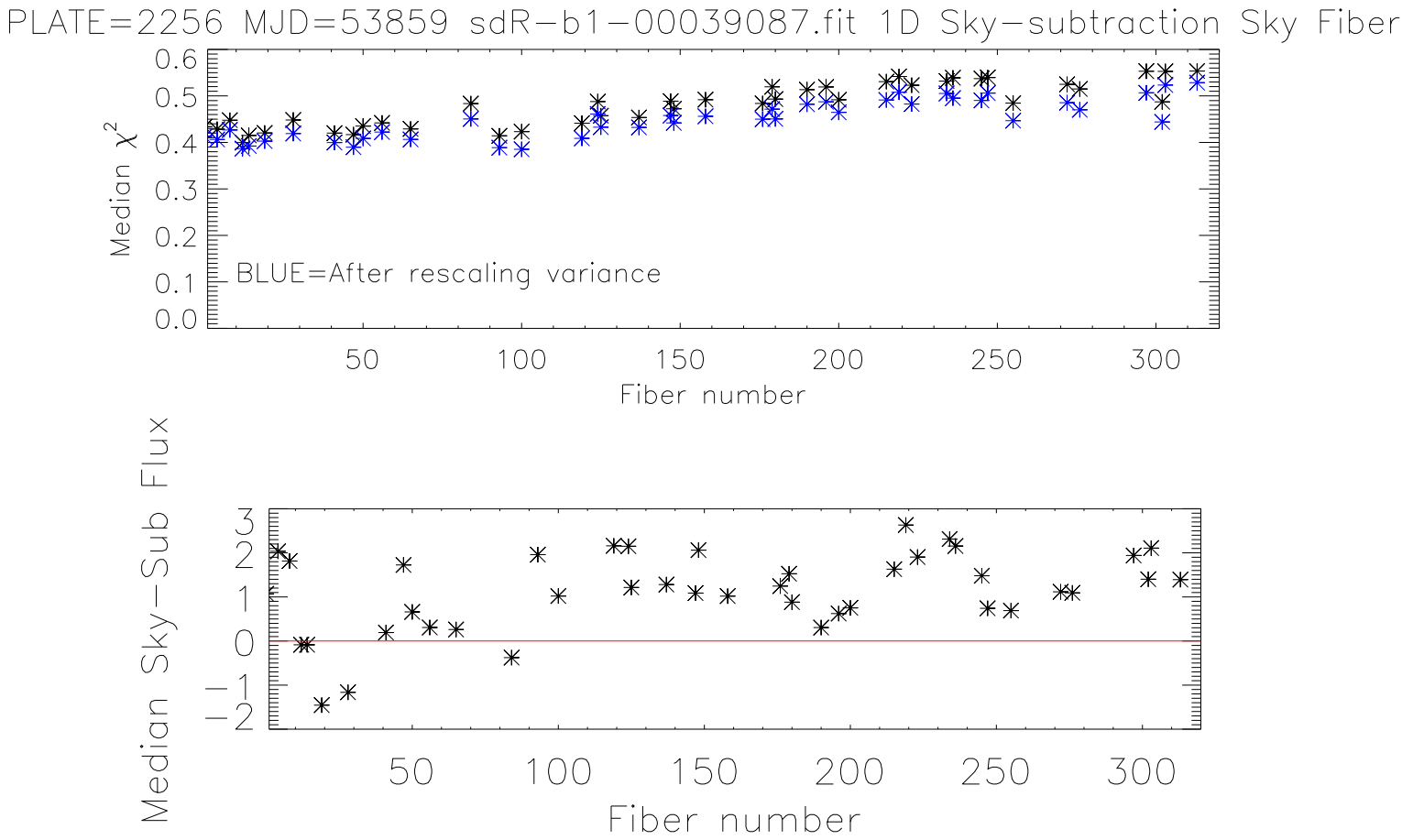

5889.9500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

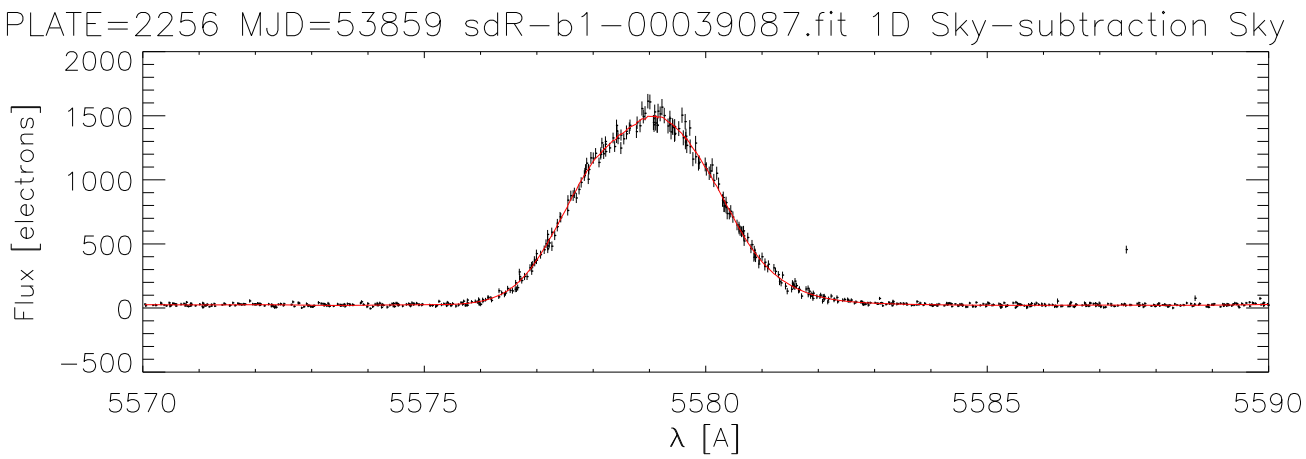

5895.9240
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

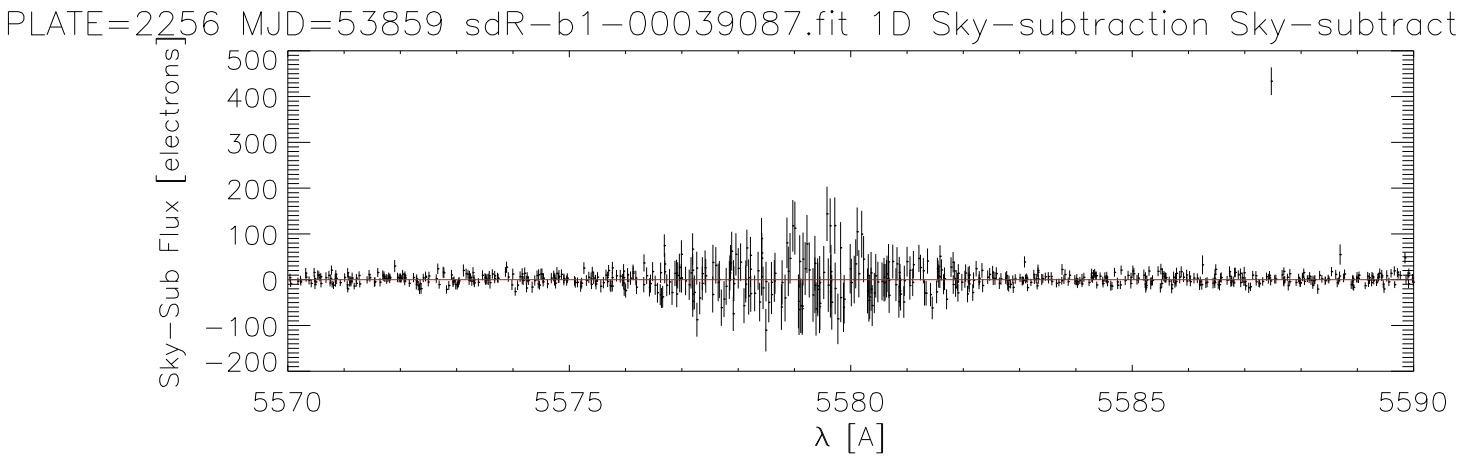

4046.5600
nfib1 41
nfib2 33
stdev 0.286
extra 0.12
4358.3300
nfib1 41
nfib2 41
stdev 0.121
extra −0.03
5460.9400
nfib1 42
nfib2 42
stdev 0.092
extra 0.09
5577.3390
nfib1 42
nfib2 42
stdev 0.022
extra 0.15
5889.9500
nfib1 42
nfib2 42
stdev 0.058
extra 0.24
5895.9240
nfib1 42
nfib2 42
stdev 0.065
extra 0.25
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

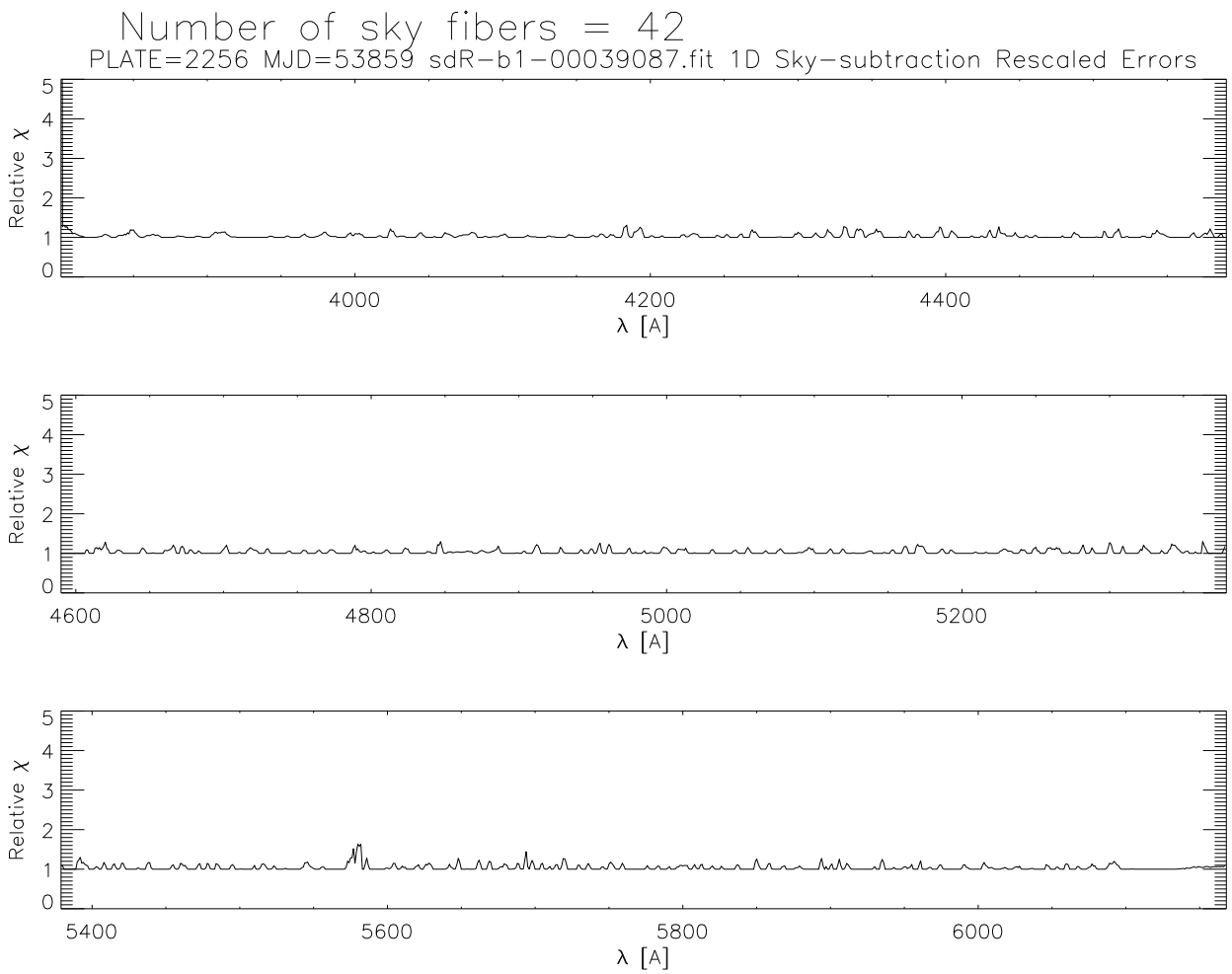

sky shift, pixels
0.2
0.1
0.0
−0.1
3500
4000
4500
5000
5500
6000
6500

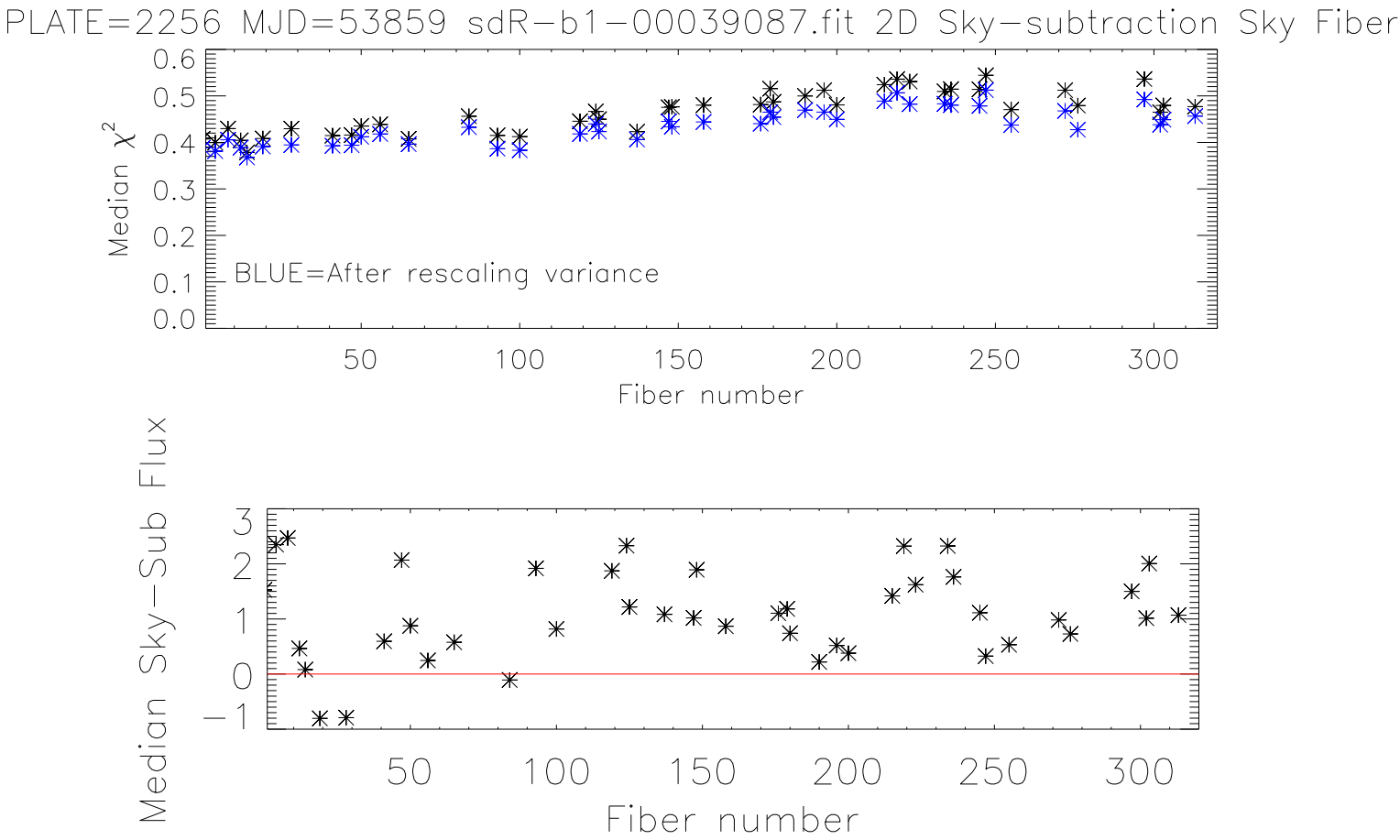

PLATE=2256 MJD=53859 Smooth superflat for sdR-b1-00039087.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= -0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

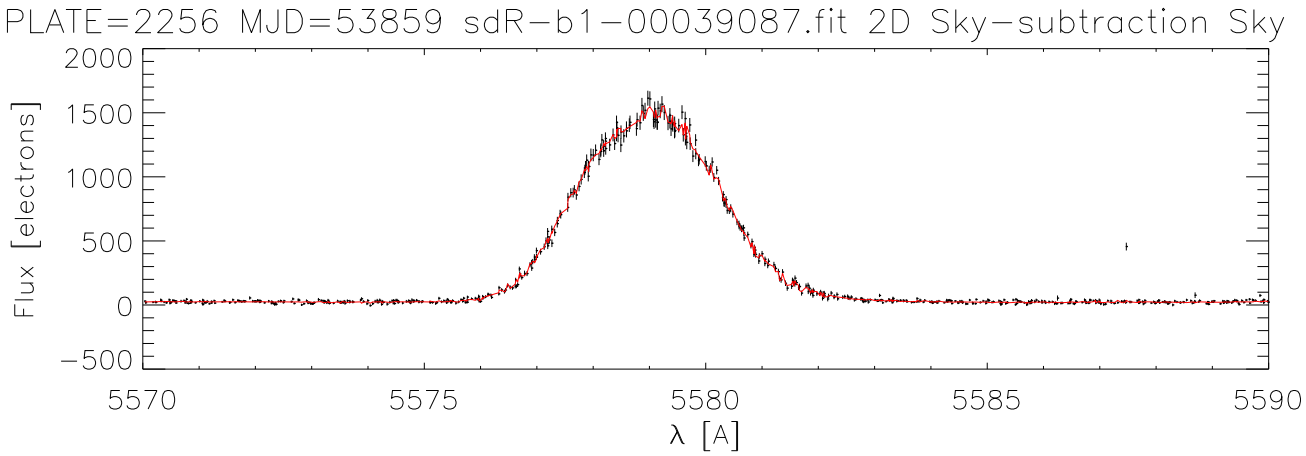

PLATE=2256 MJD=53859 sdR-b1-00039087.fit 1D Sky-subtraction Sky Fiber
Median $\chi^2$
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

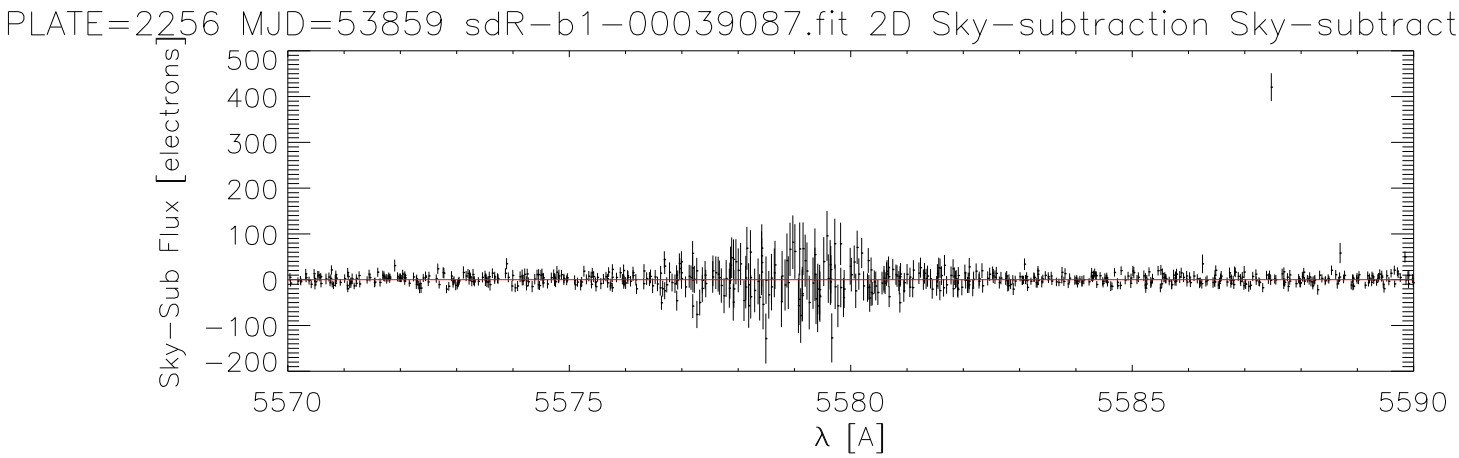

PLATE=2256 MJD=53859 sdR-b1-00039087.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
-500
5570
5575
5580
5585
5590
λ [A]

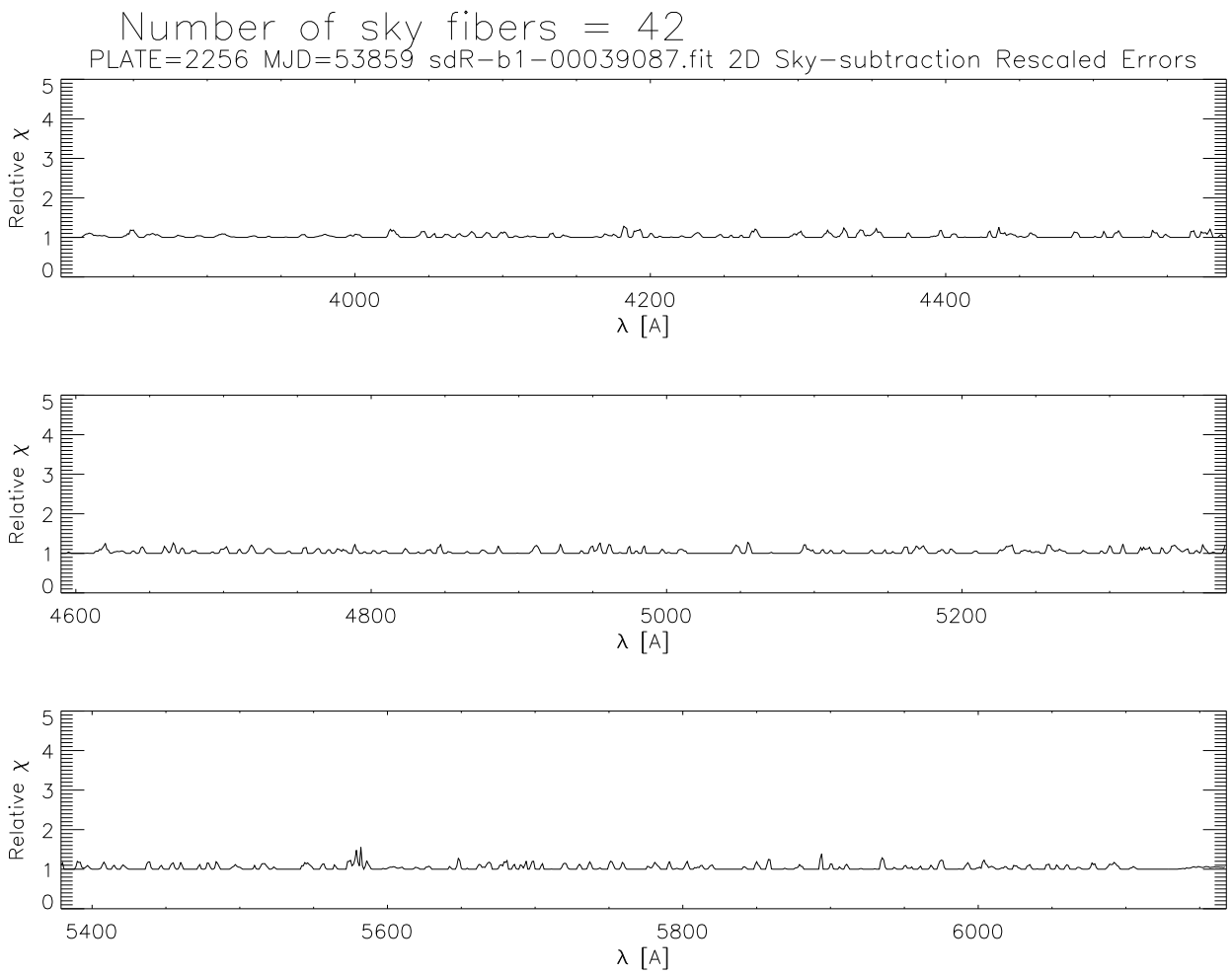

PLATE=2256 MJD=53859 sdR-b1-00039087.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
500
400
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

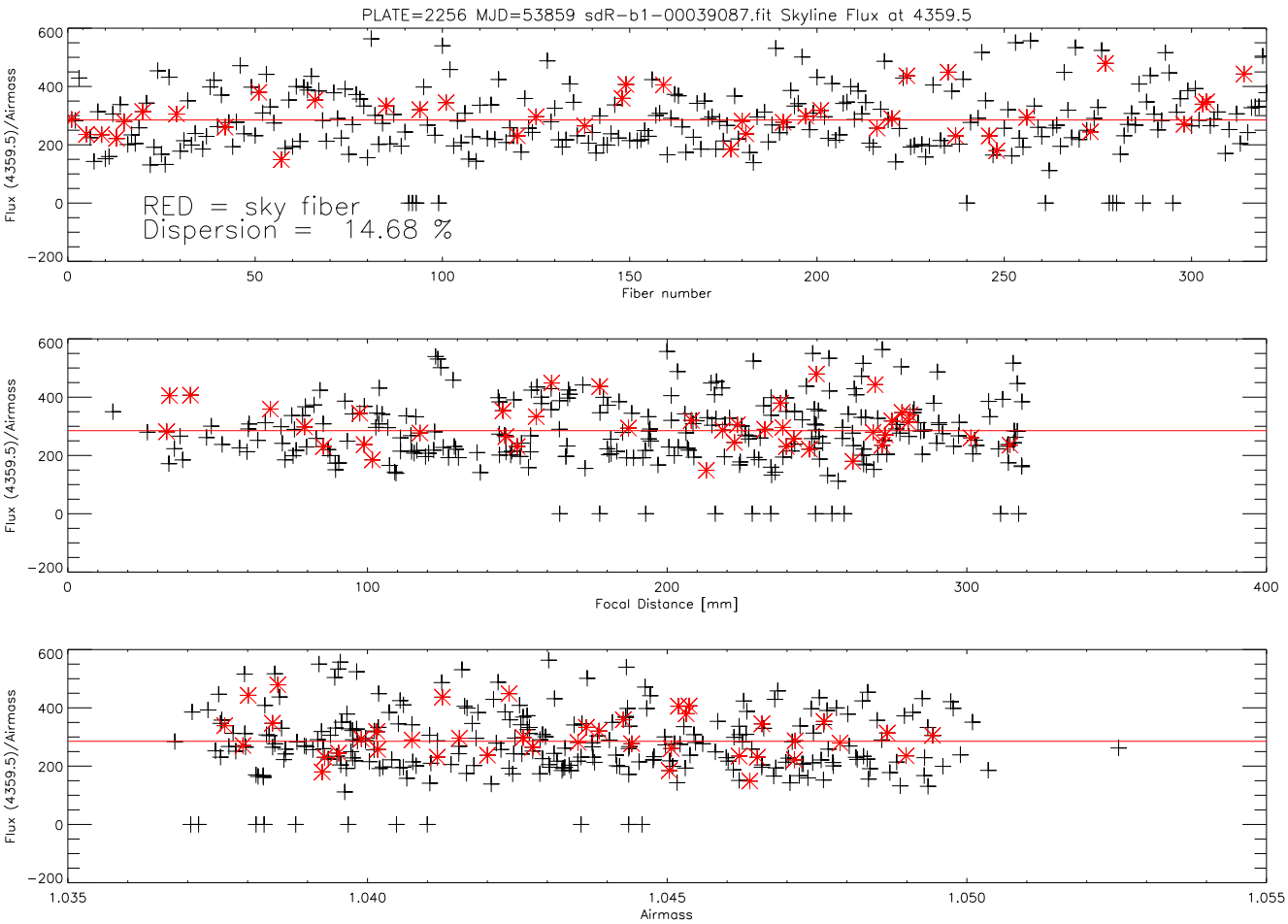

Number of sky fibers = 42
PLATE=2256 MJD=53859 sdR-b1-00039087.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

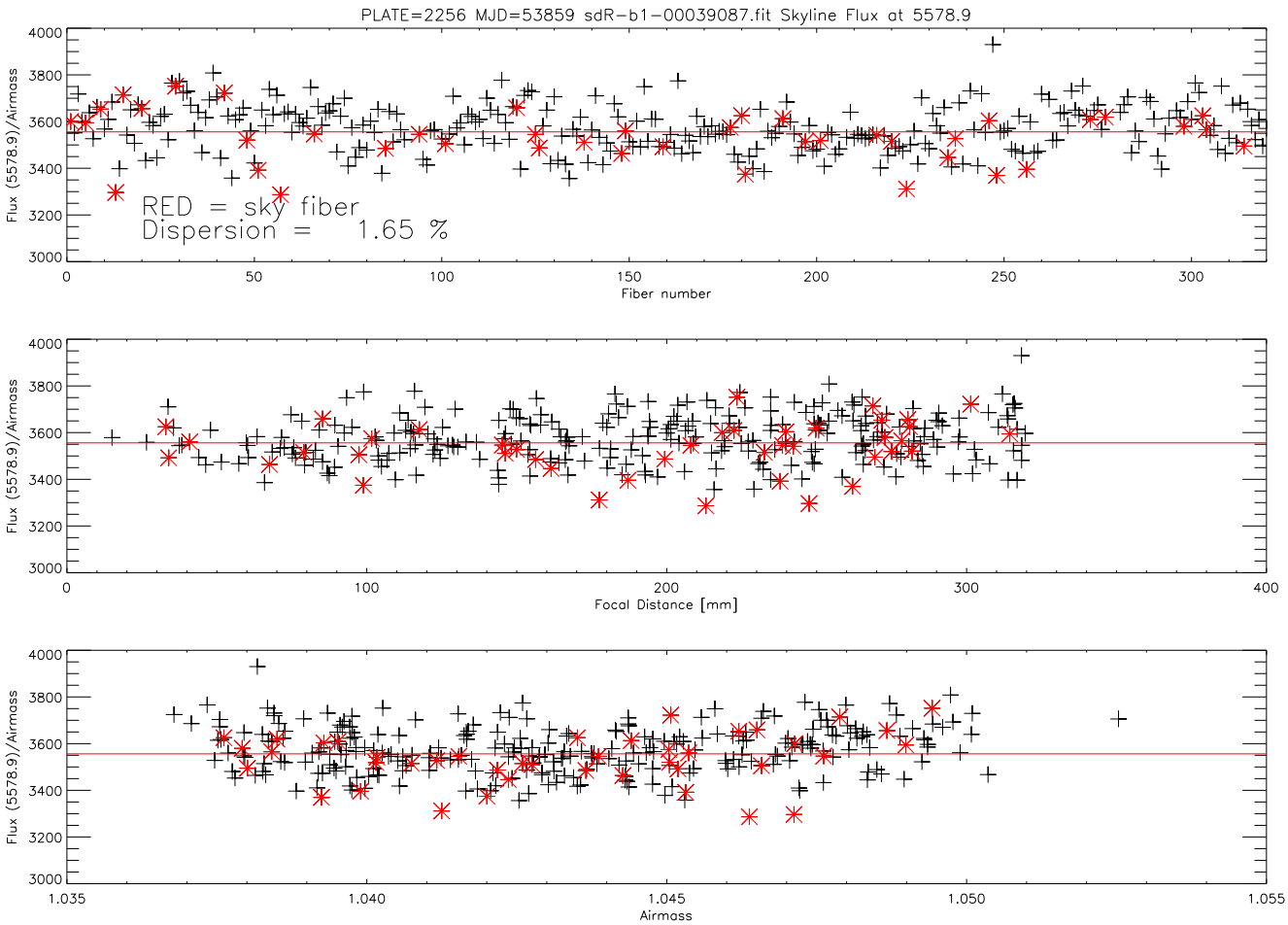

PLATE=2256 MJD=53859 sdR-b1-00039087.fit 2D Sky-subtraction Sky Fiber
Median $\chi^2$
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

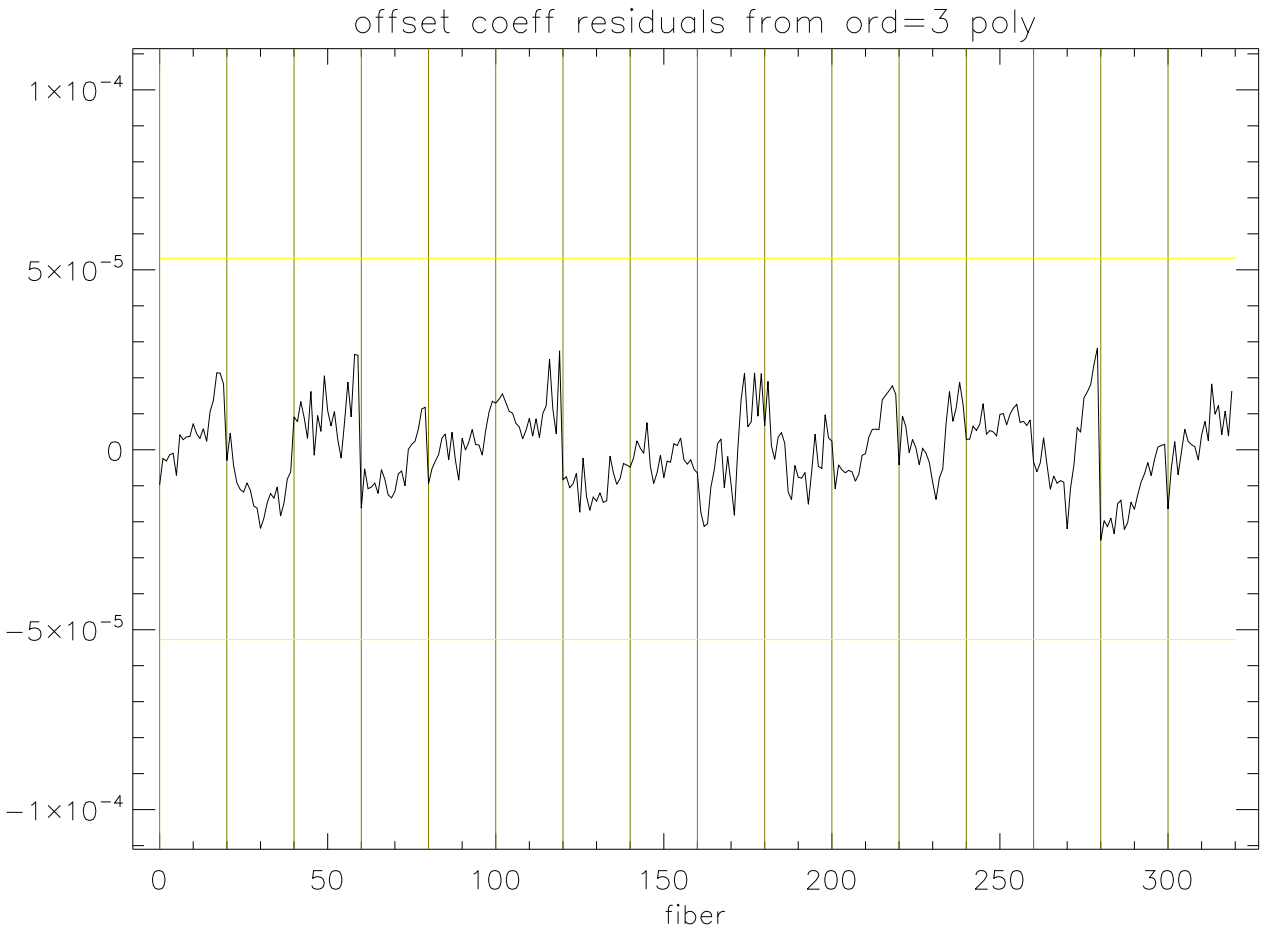

PLATE=2256 MJD=53859 sdR-b1-00039087.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
-500
5570
5575
5580
5585
5590
λ [A]

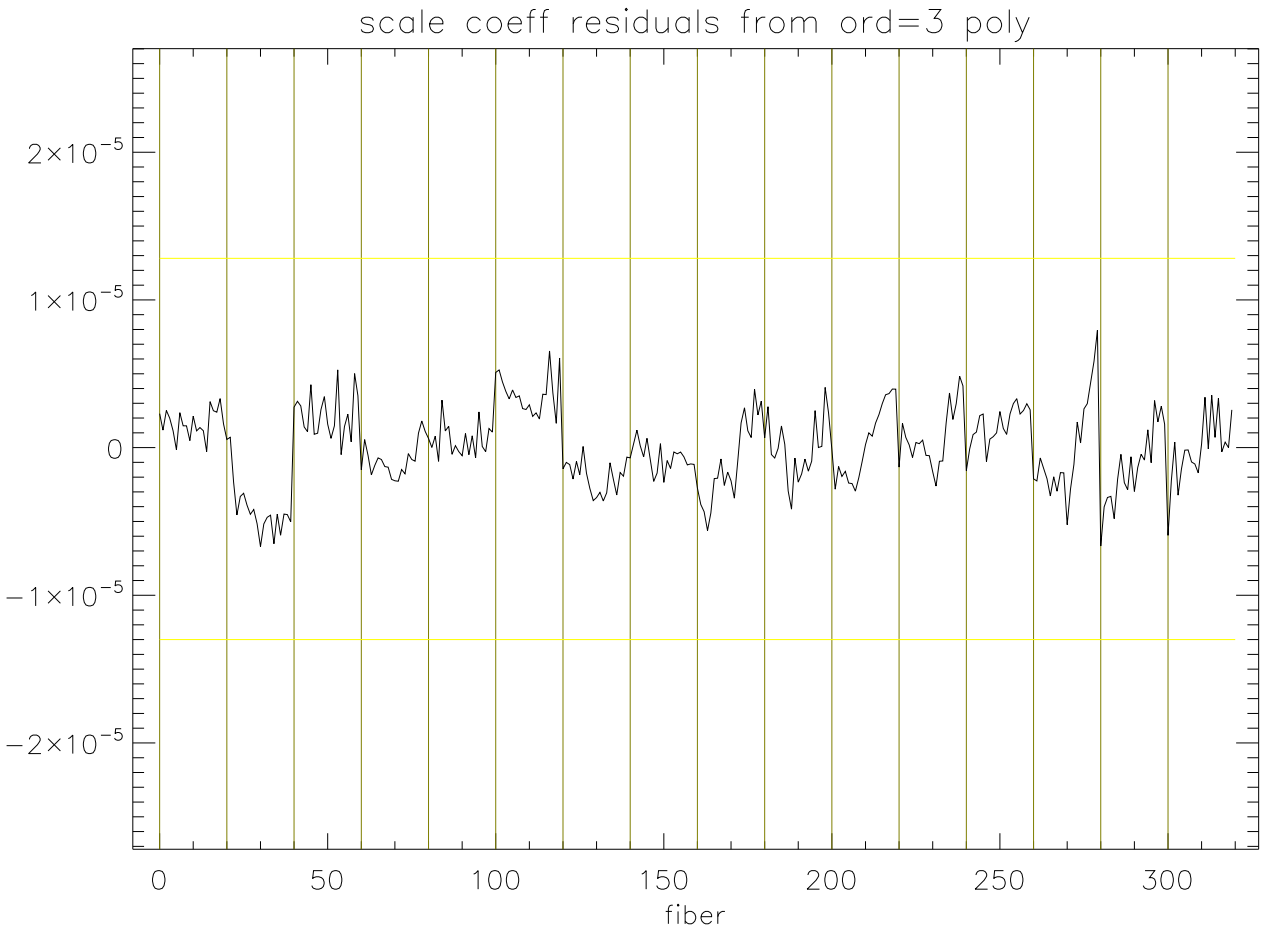

PLATE=2256 MJD=53859 sdR-b1-00039087.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
500
400
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

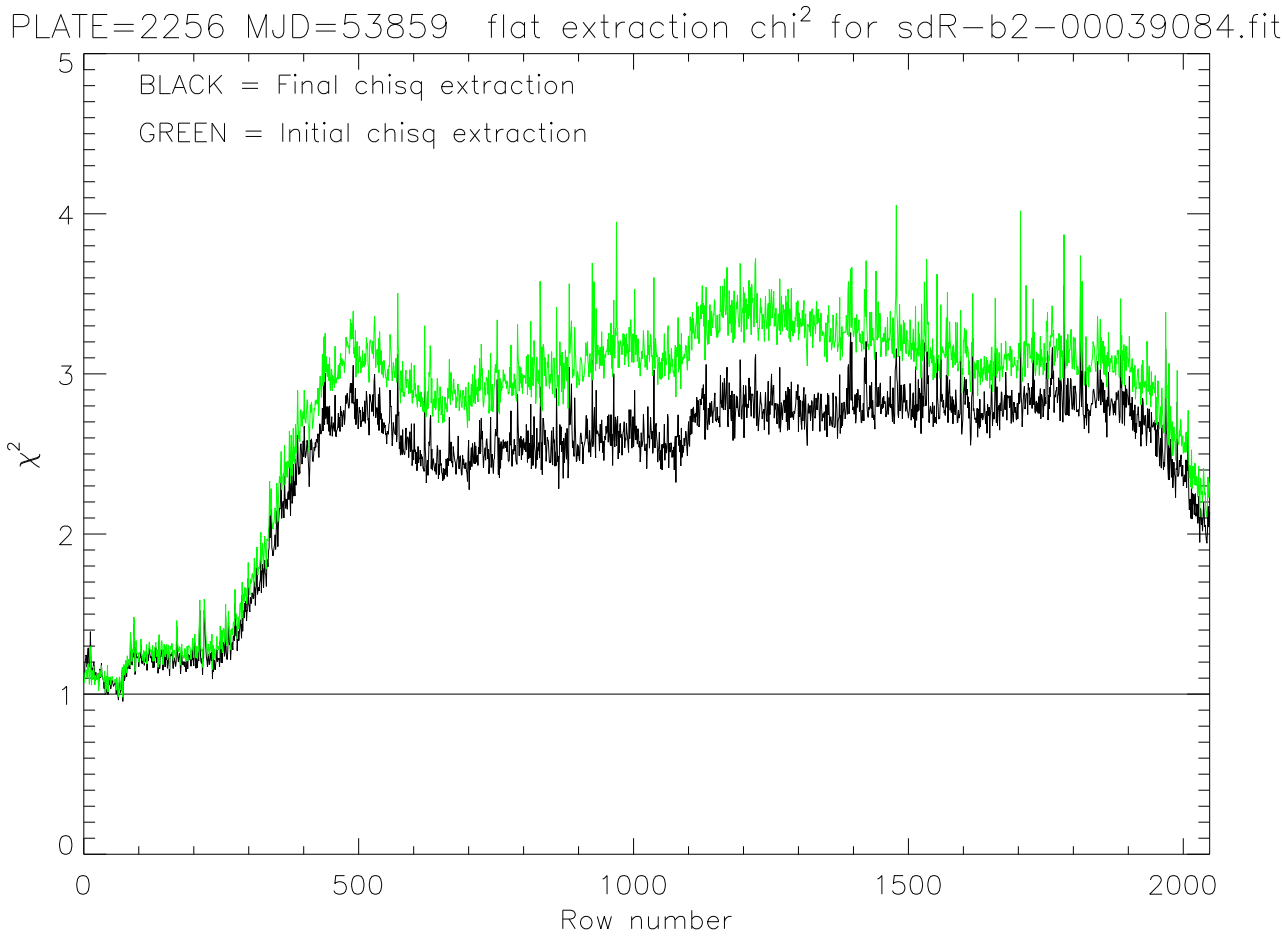

Number of sky fibers = 42
PLATE=2256 MJD=53859 sdR-b1-00039087.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

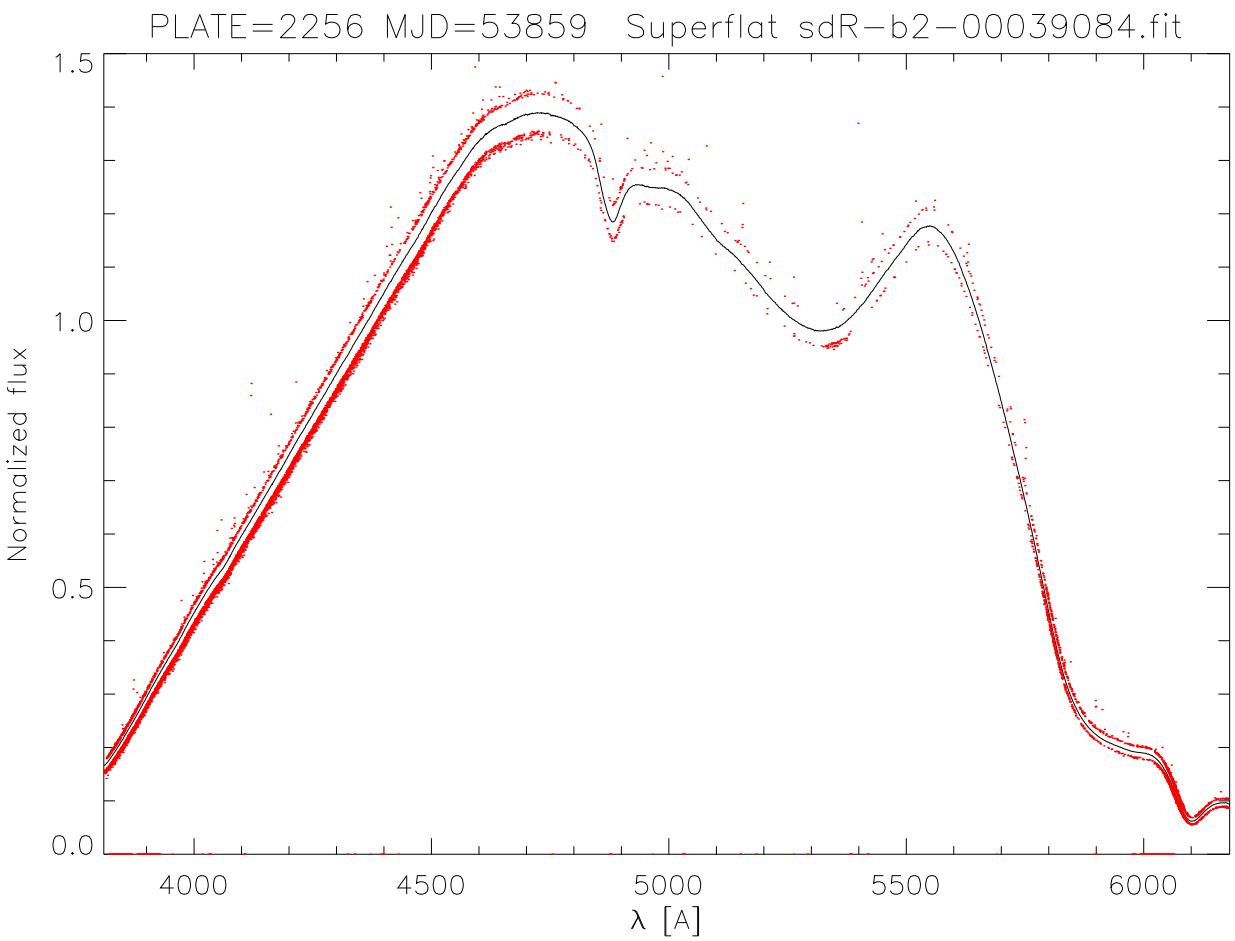

PLATE=2256 MJD=53859 sdR-b1-00039087.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 14.68 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

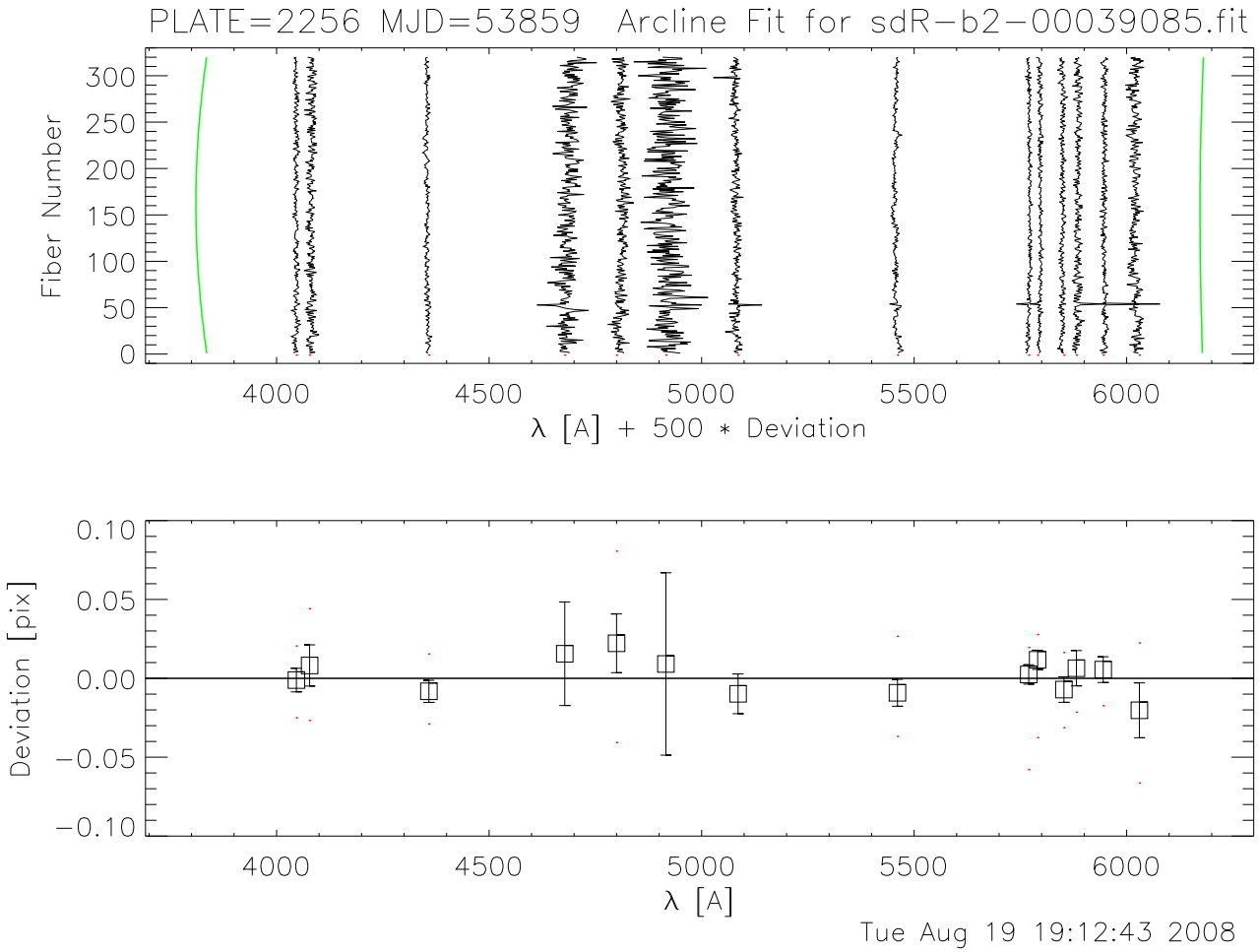

PLATE=2256 MJD=53859 sdR-b1-00039087.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.65 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

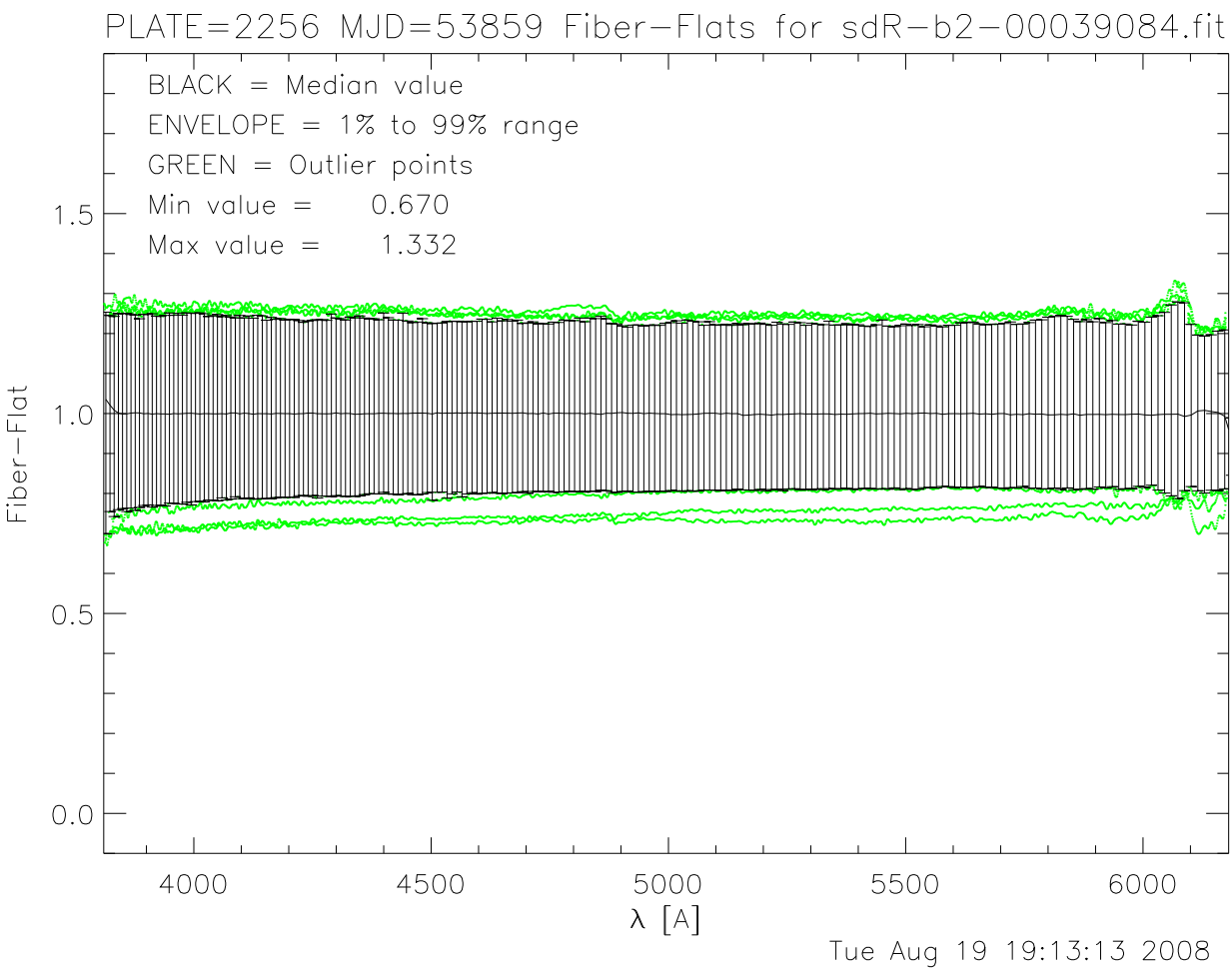

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

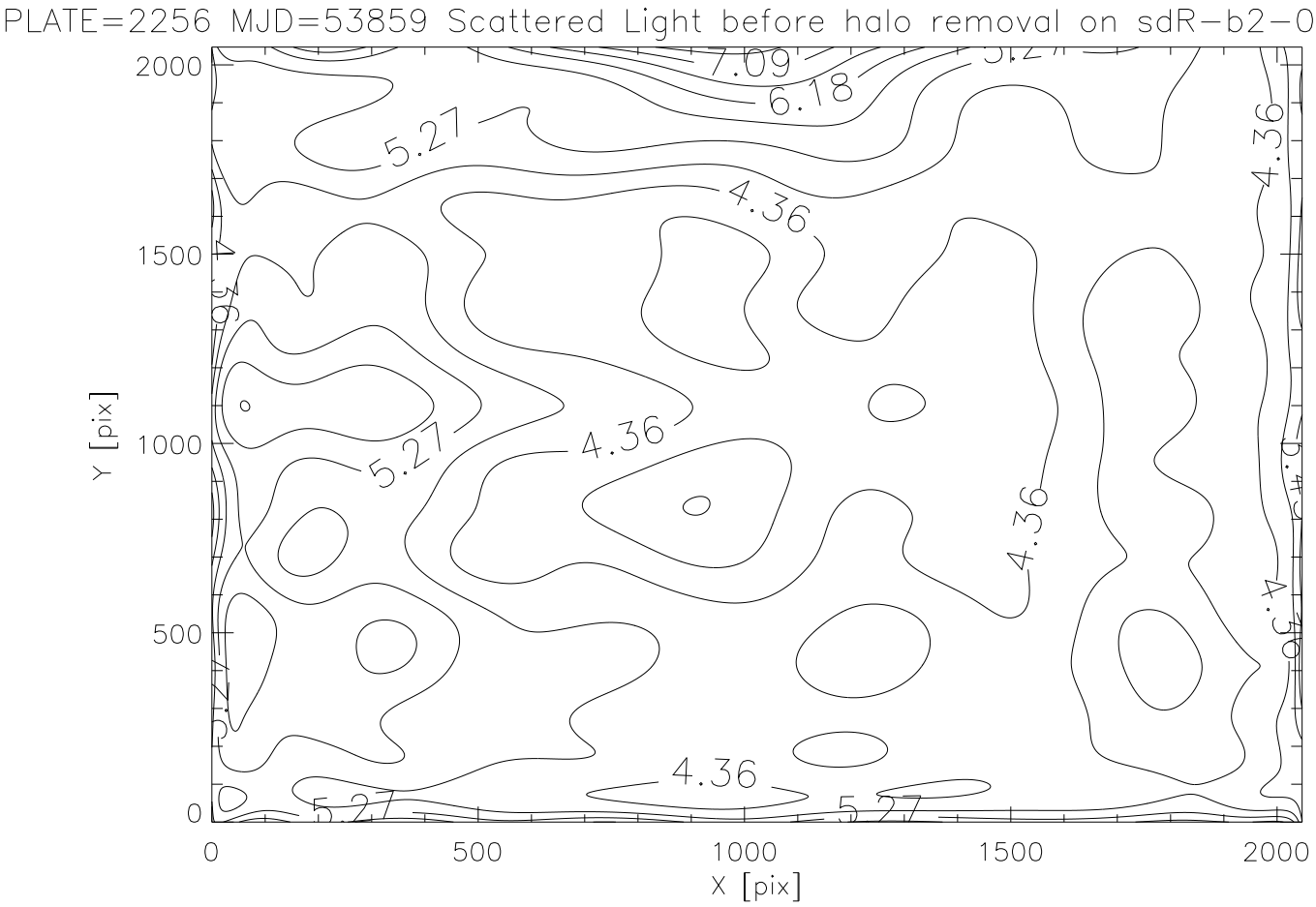

scale coeff residuals from ord=3 poly
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

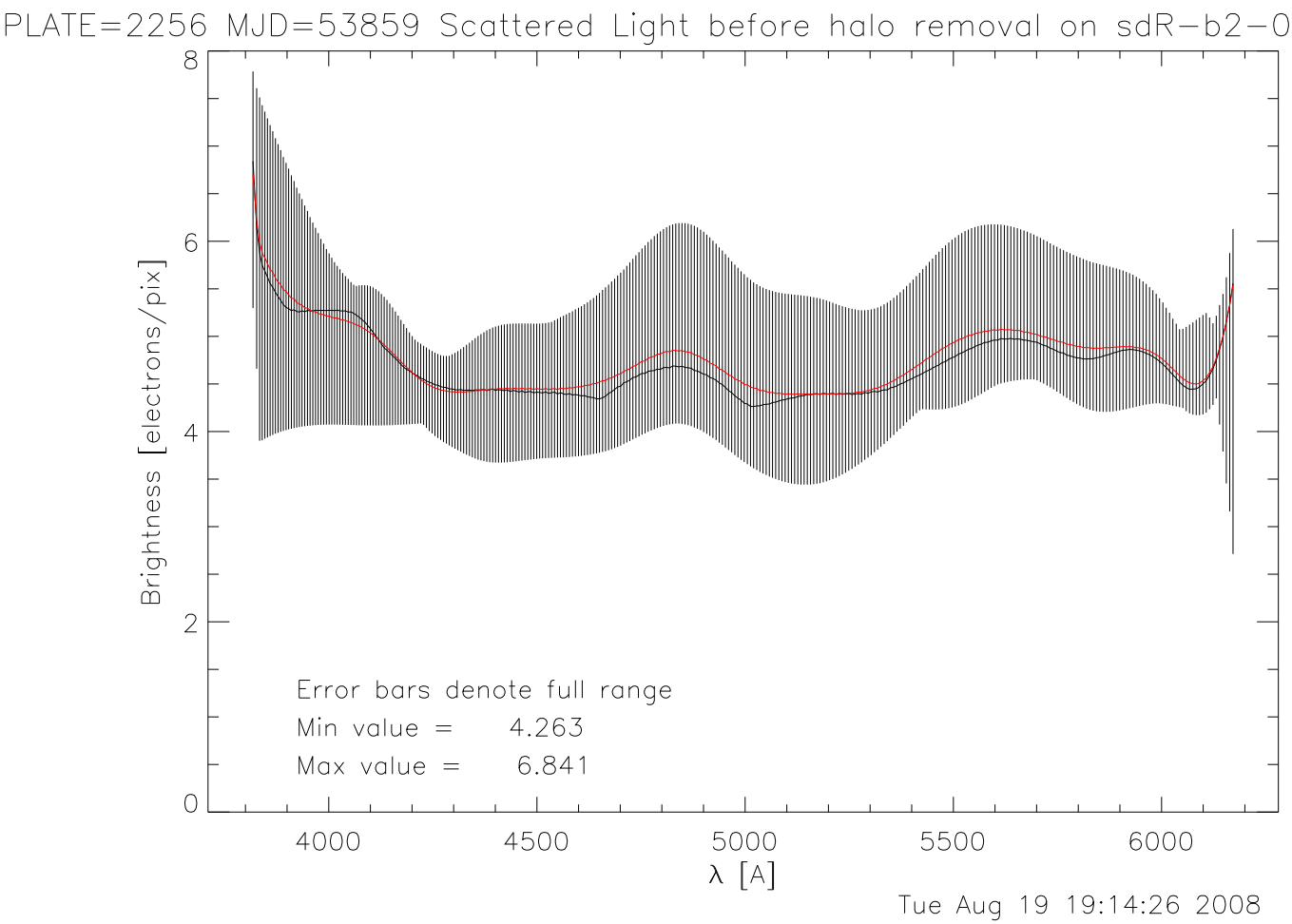

PLATE=2256 MJD=53859 flat extraction chi$^2$ for sdR−b2−00039084.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
$\chi^2$
Row number
0
500
1000
1500
2000
1
2
3
4
5

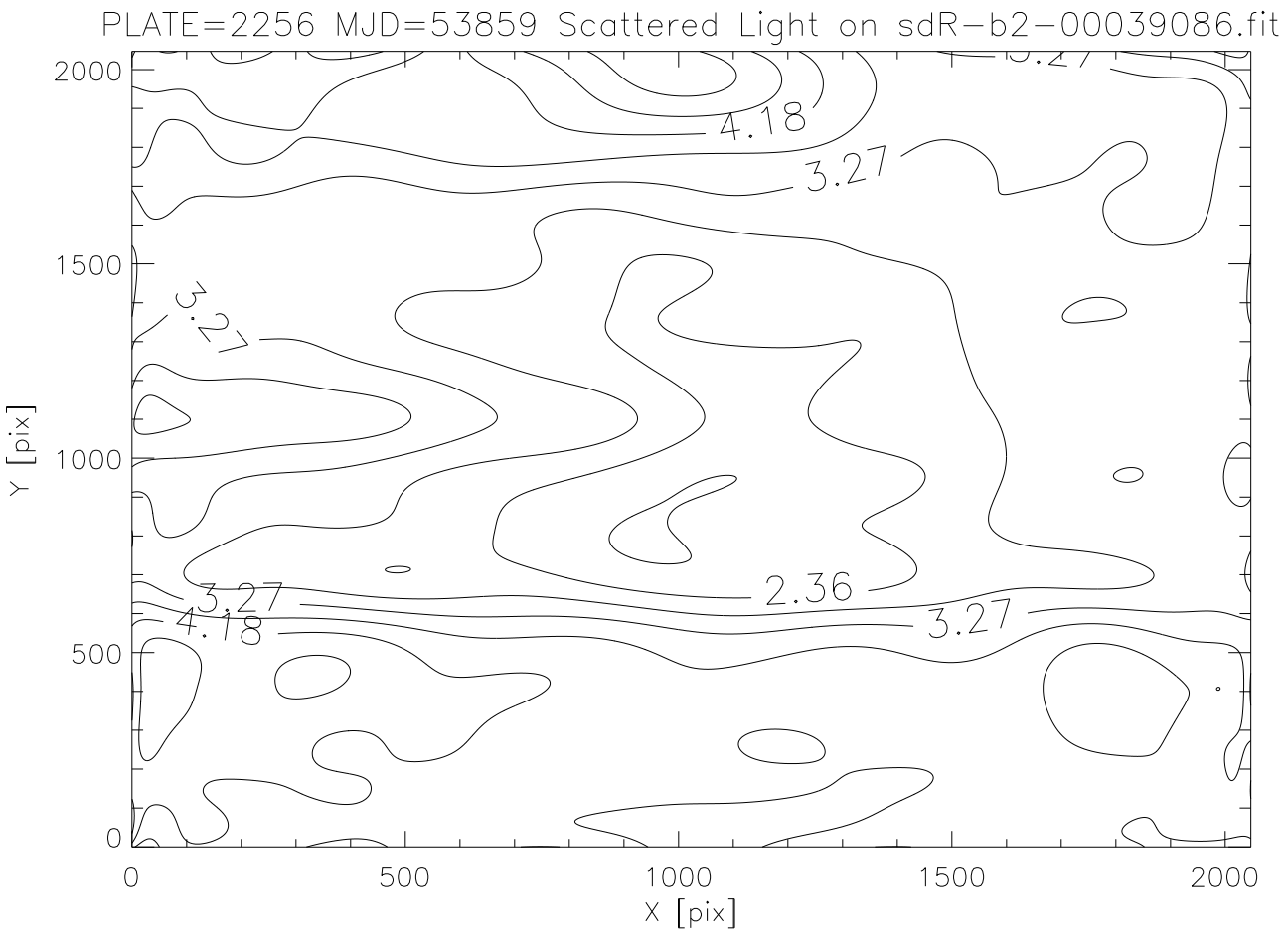

PLATE=2256 MJD=53859 Superflat sdR-b2-00039084.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

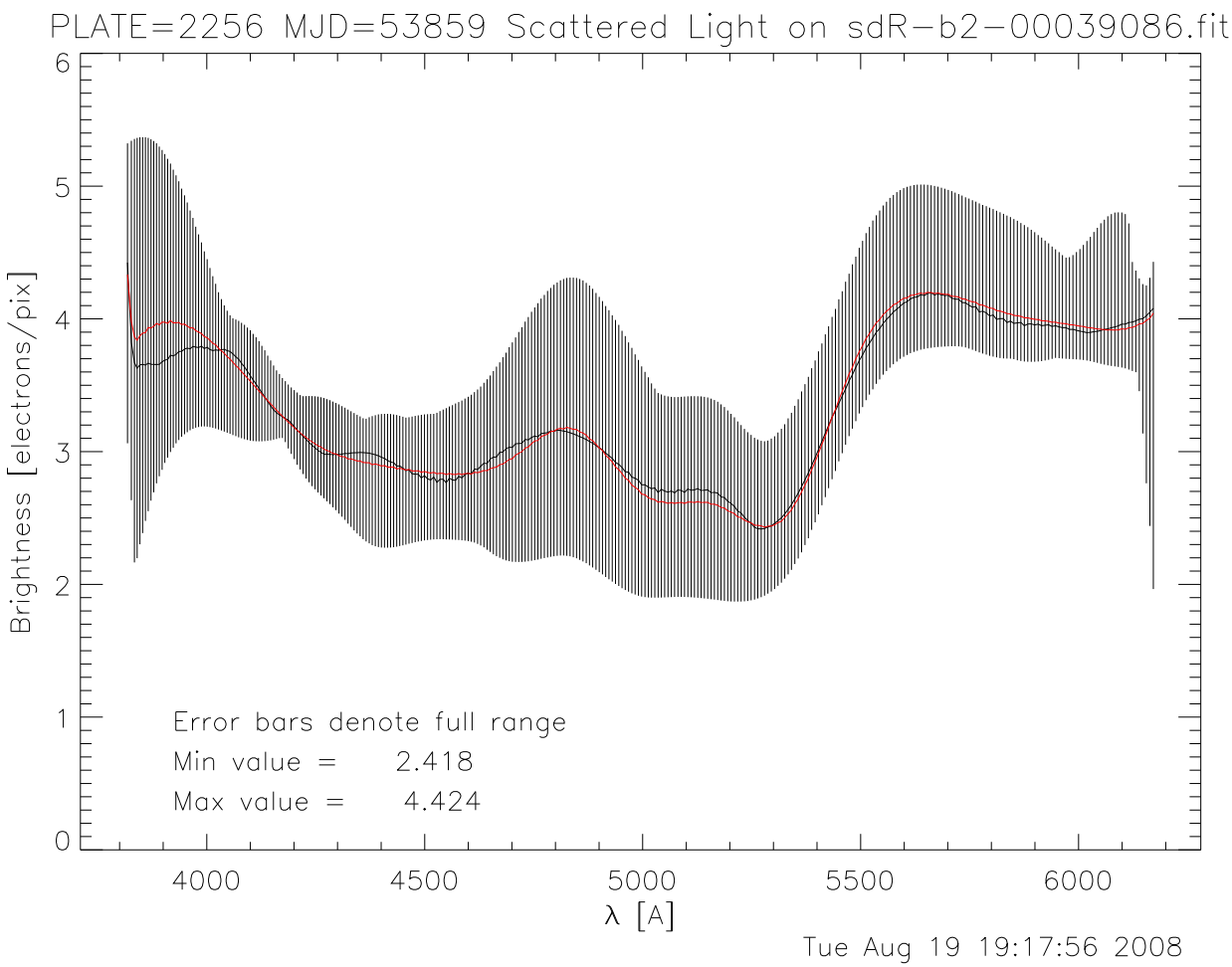

PLATE=2256 MJD=53859 Arcline Fit for sdR-b2-00039085.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Tue Aug 19 19:12:43 2008

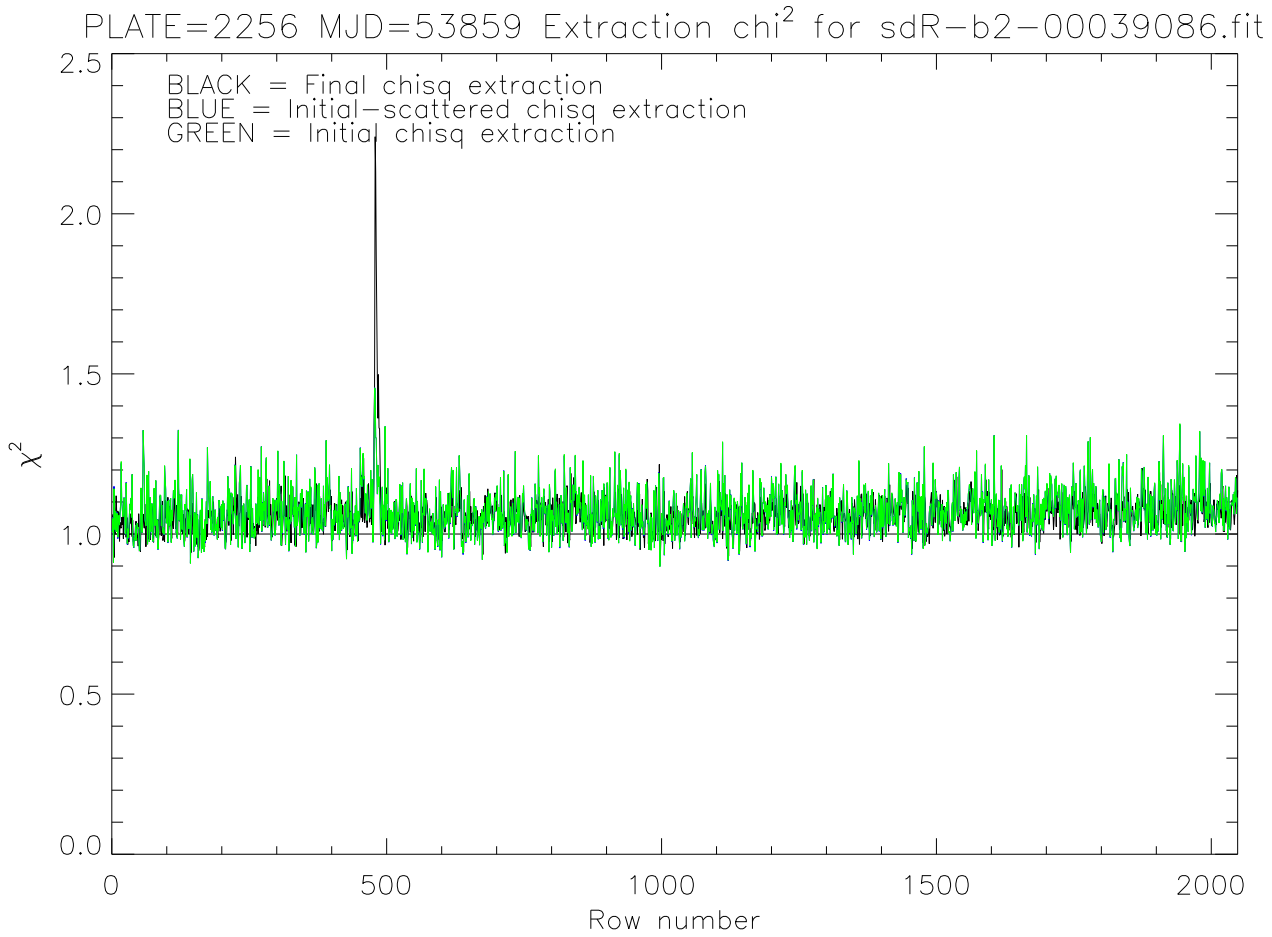

PLATE=2256 MJD=53859 Fiber-Flats for sdR-b2-00039084.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.670
Max value = 1.332
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Tue Aug 19 19:13:13 2008

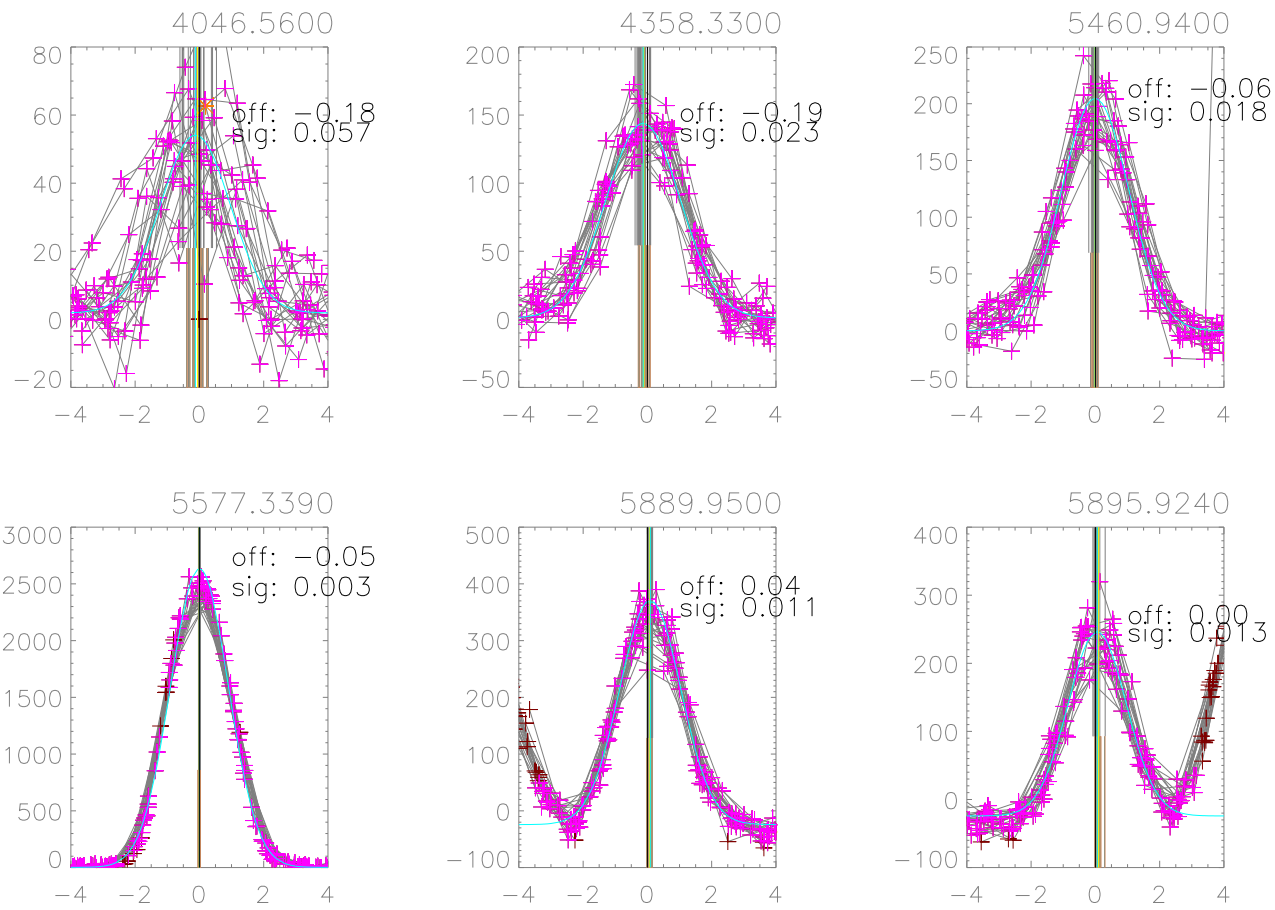

PLATE=2256 MJD=53859 Scattered Light before halo removal on sdR−b2−00039086.f
7.09
6.18
5.27
4.36
4.36
5.27
4.36
4.36
5.27
4.36
5.27
5.27
4.36
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

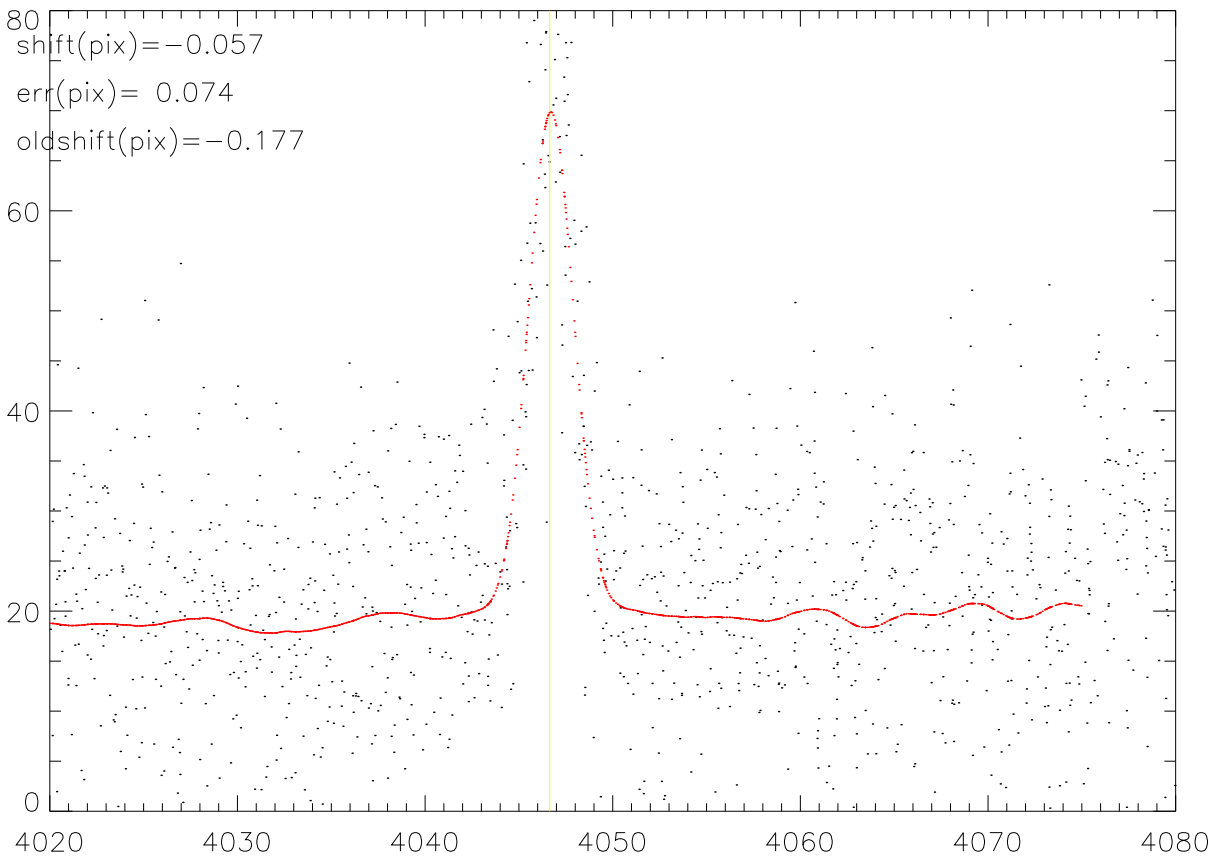

PLATE=2256 MJD=53859 Scattered Light before halo removal on sdR-b2-00039086.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.263
Max value = 6.841
Tue Aug 19 19:14:26 2008

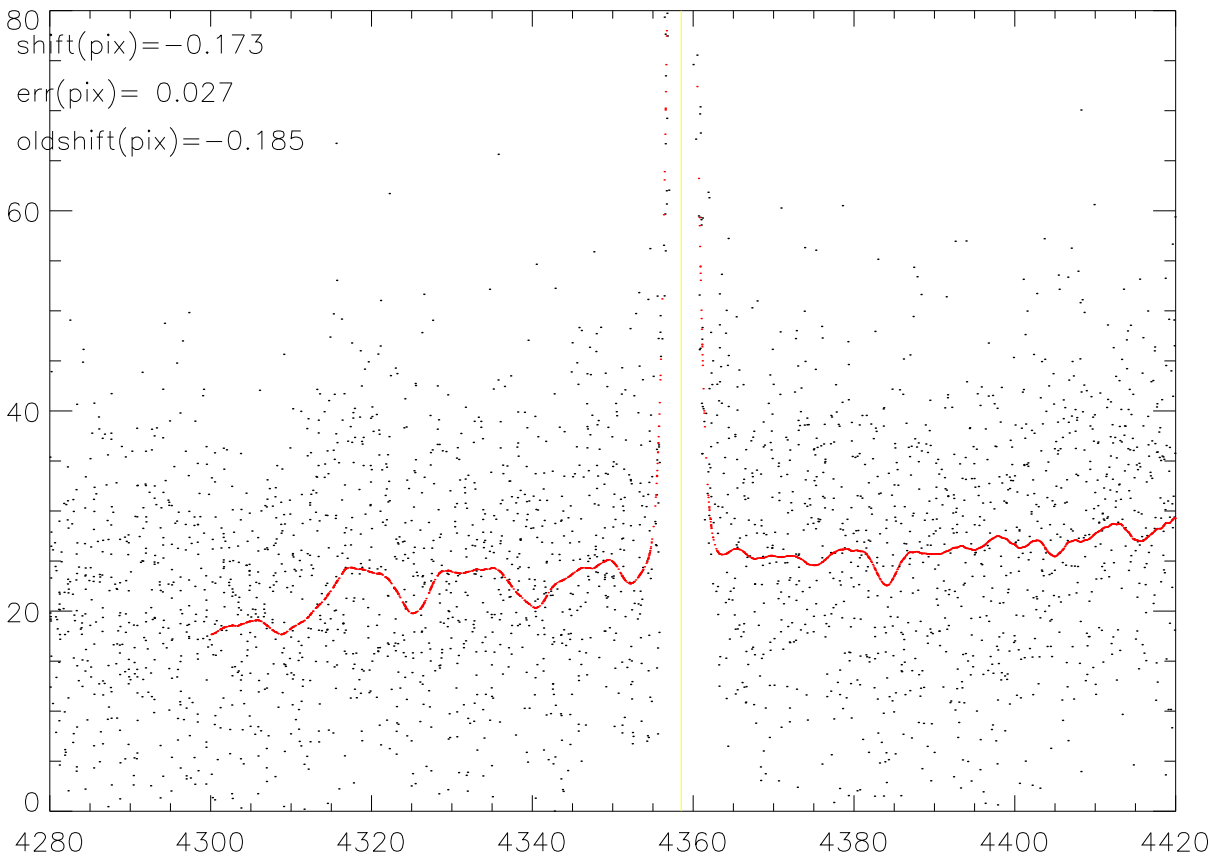

PLATE=2256 MJD=53859 Scattered Light on sdR-b2-00039086.fit
4.18
3.27
3.27
3.27
4.18
2.36
3.27
Y [pix]
X [pix]
0
500
1000
1500
2000

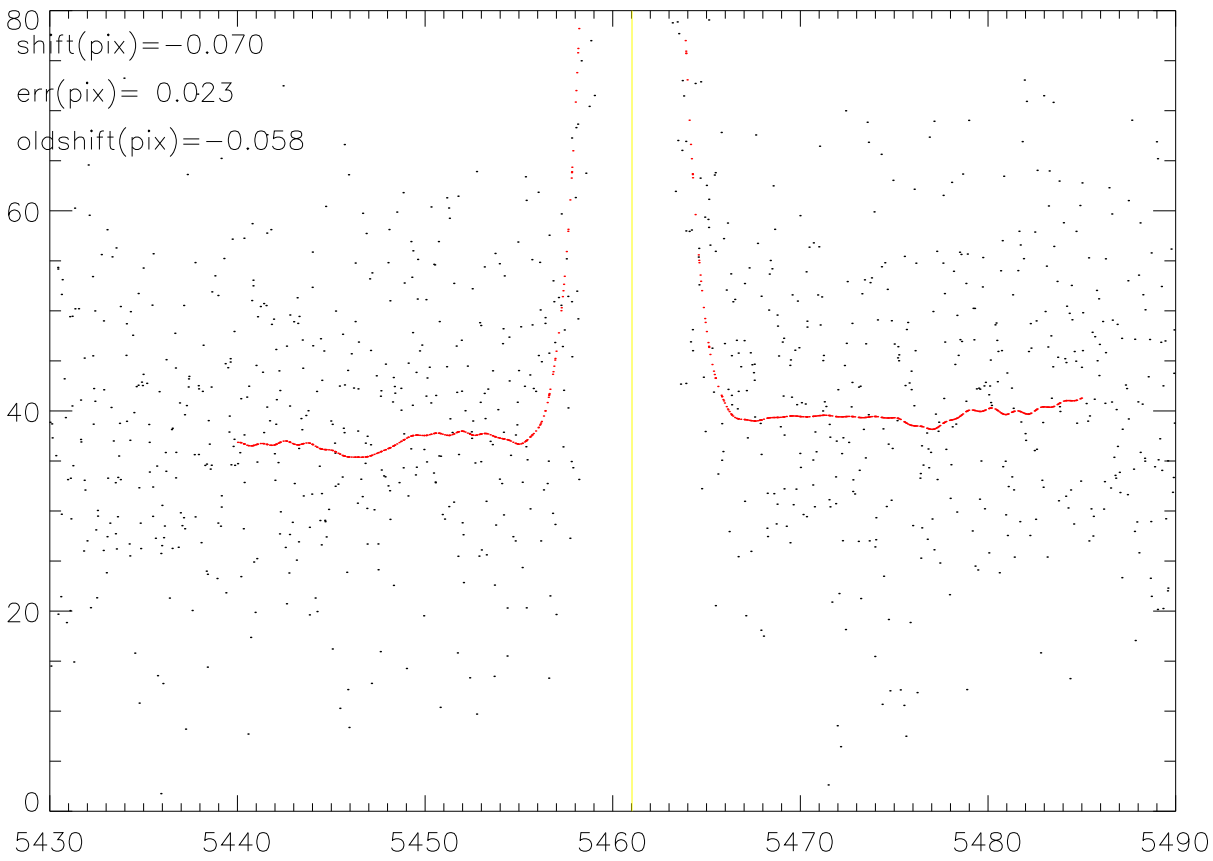

PLATE=2256 MJD=53859 Scattered Light on sdR-b2-00039086.fit
Brightness [electrons/pix]
0
1
2
3
4
5
6
Error bars denote full range
Min value = 2.418
Max value = 4.424
4000
4500
5000
5500
6000
λ [A]
Tue Aug 19 19:17:56 2008

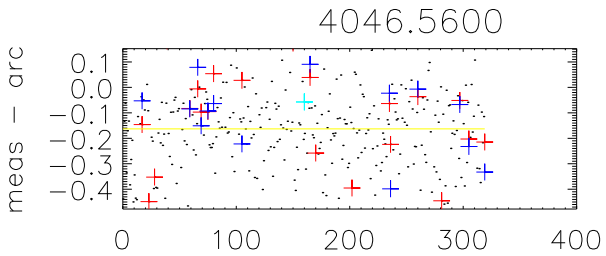

PLATE=2256 MJD=53859 Extraction chi$^2$ for sdR-b2-00039086.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
$\chi^2$
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

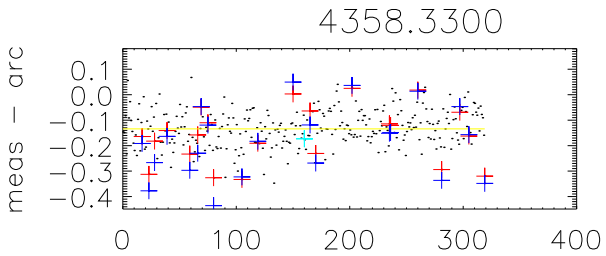

4046.5600
off: −0.18
sig: 0.057
4358.3300
off: −0.19
sig: 0.023
5460.9400
off: −0.06
sig: 0.018
5577.3390
off: −0.05
sig: 0.003
5889.9500
off: 0.04
sig: 0.011
5895.9240
off: 0.00
sig: 0.013

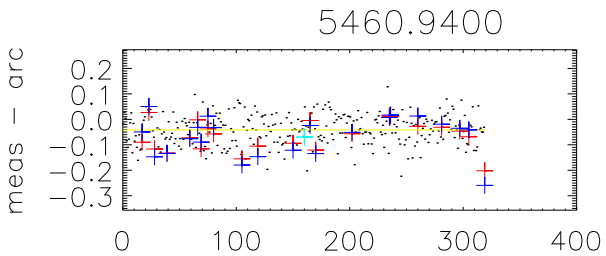

shift(pix)=−0.057
err(pix)= 0.074
oldshift(pix)=−0.177
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

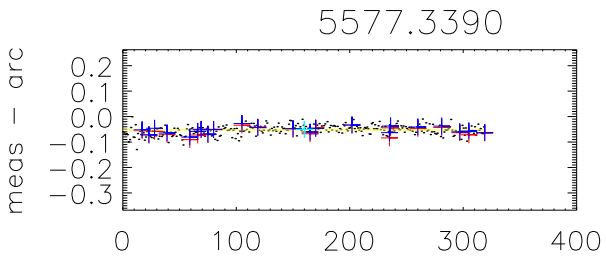

shift(pix)=−0.173
err(pix)= 0.027
oldshift(pix)=−0.185
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

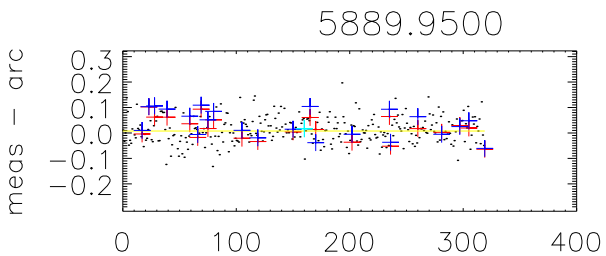

shift(pix)=−0.070
err(pix)= 0.023
oldshift(pix)=−0.058
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

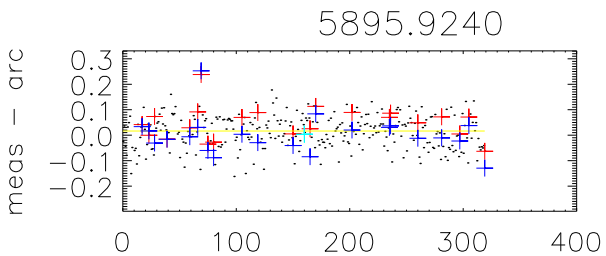

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

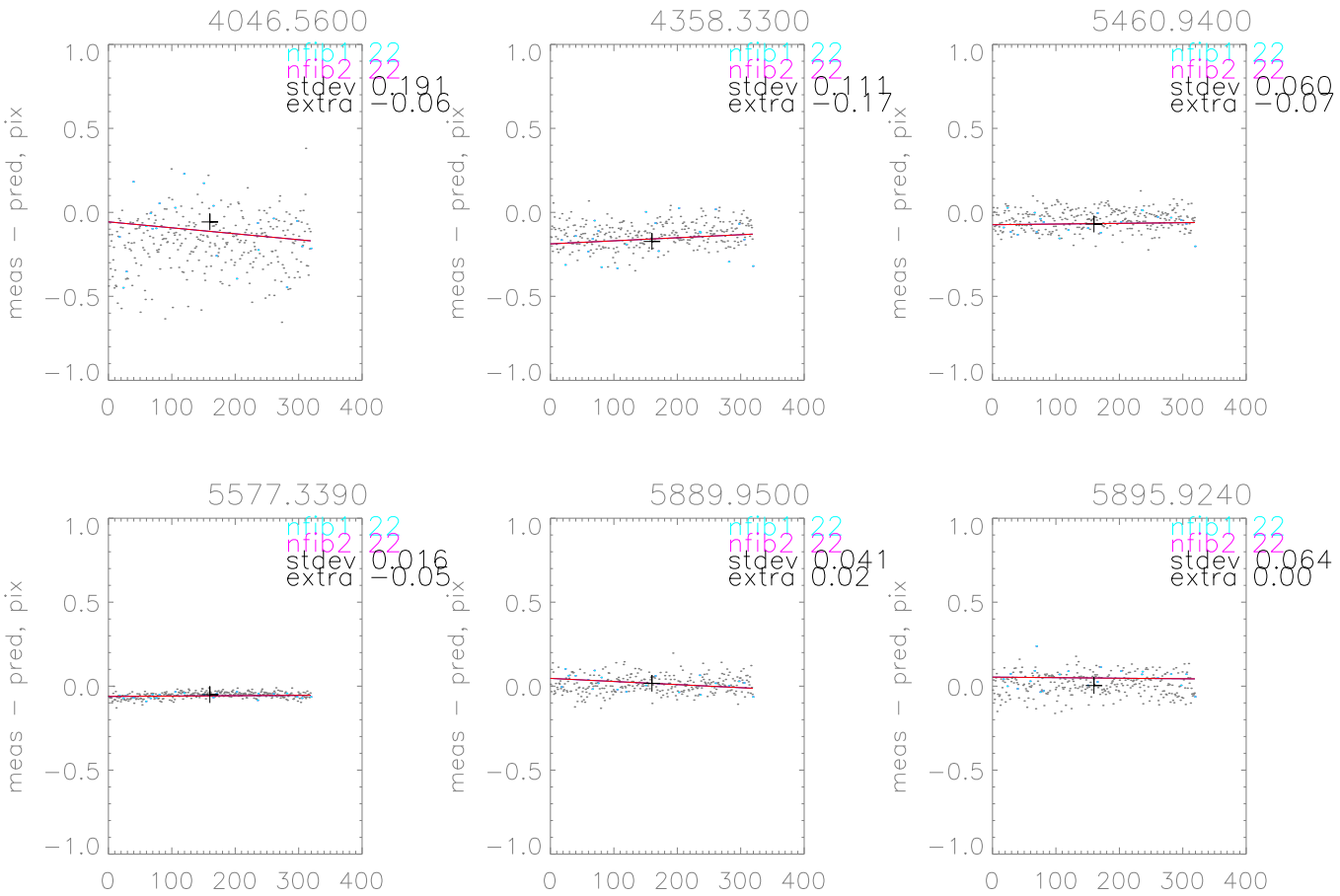

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

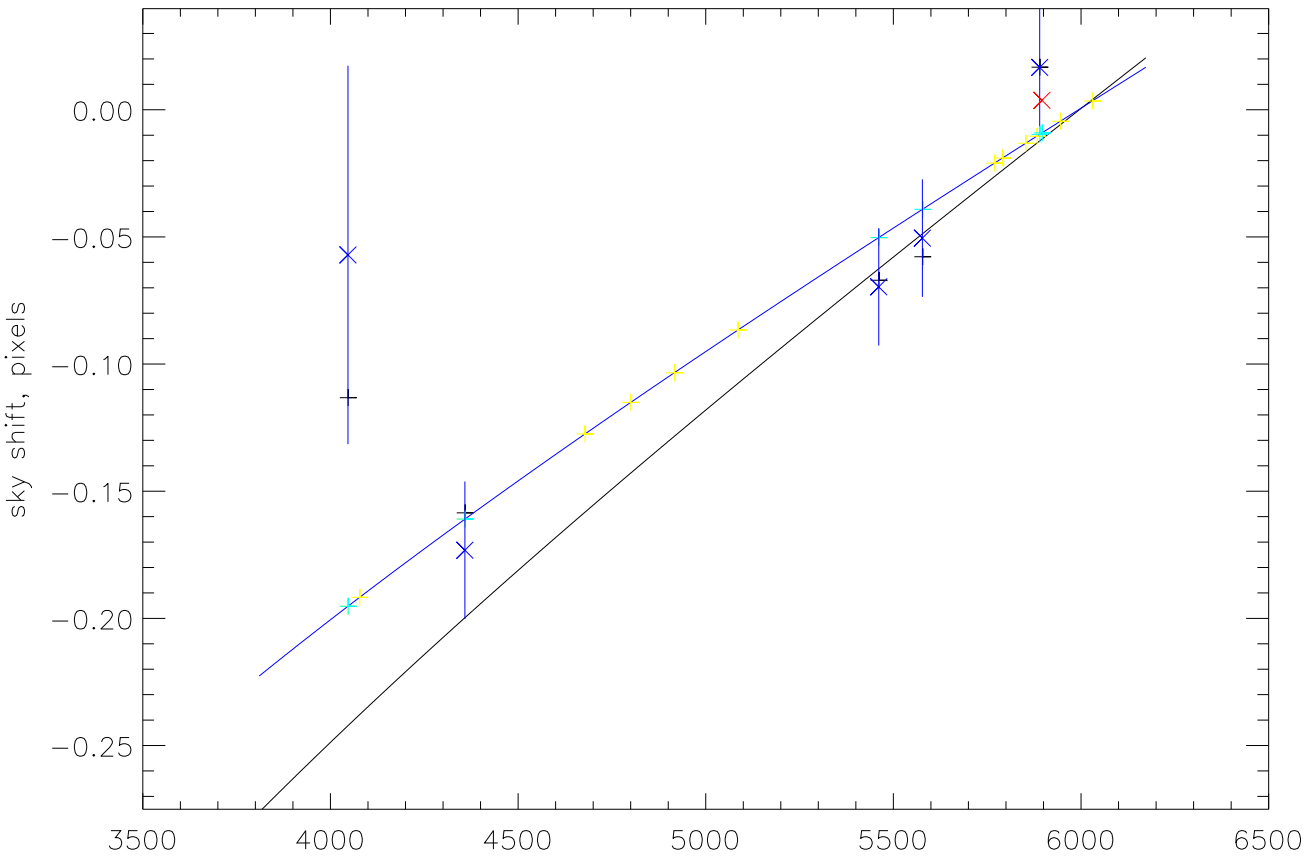

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

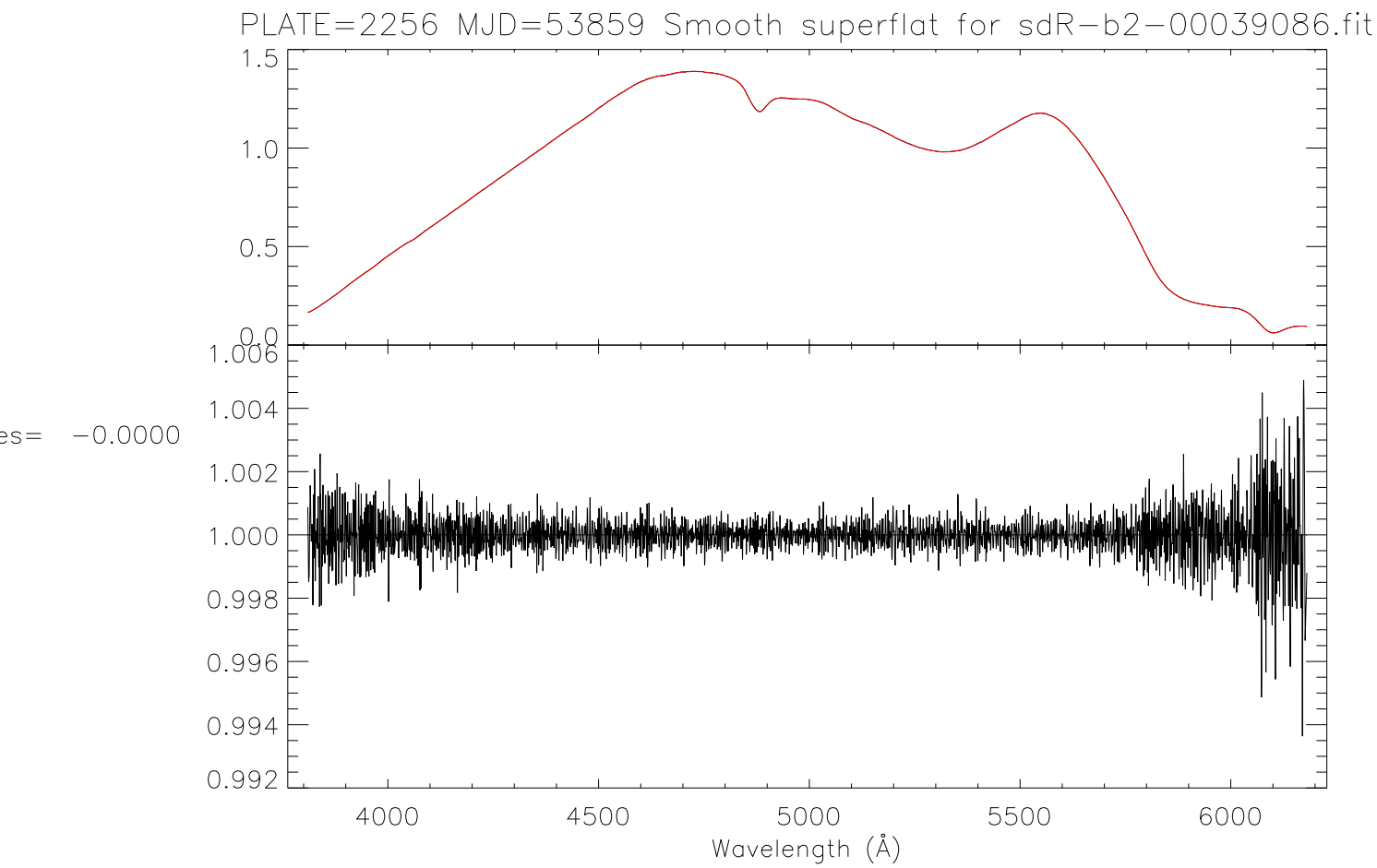

5577.3390
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

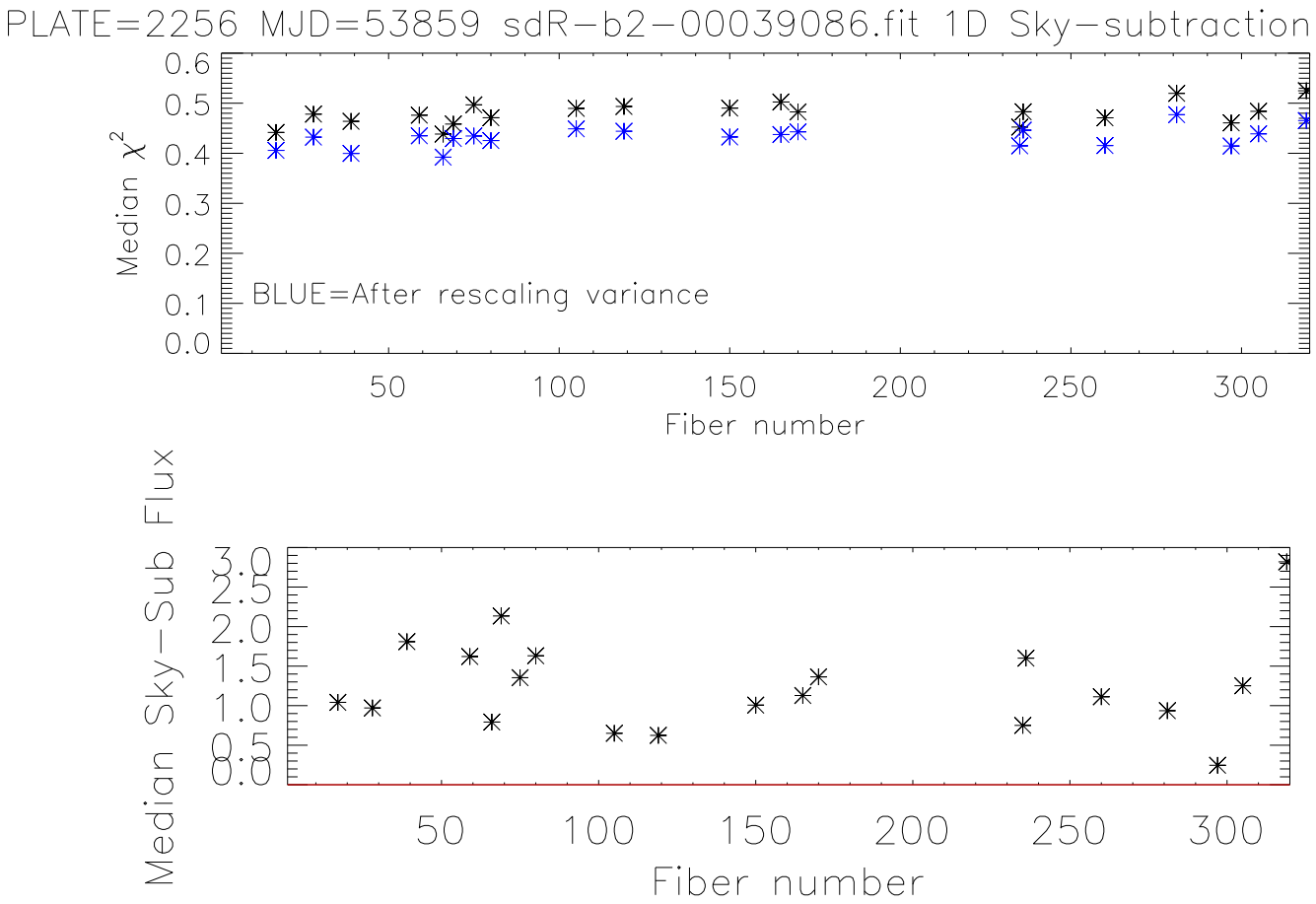

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

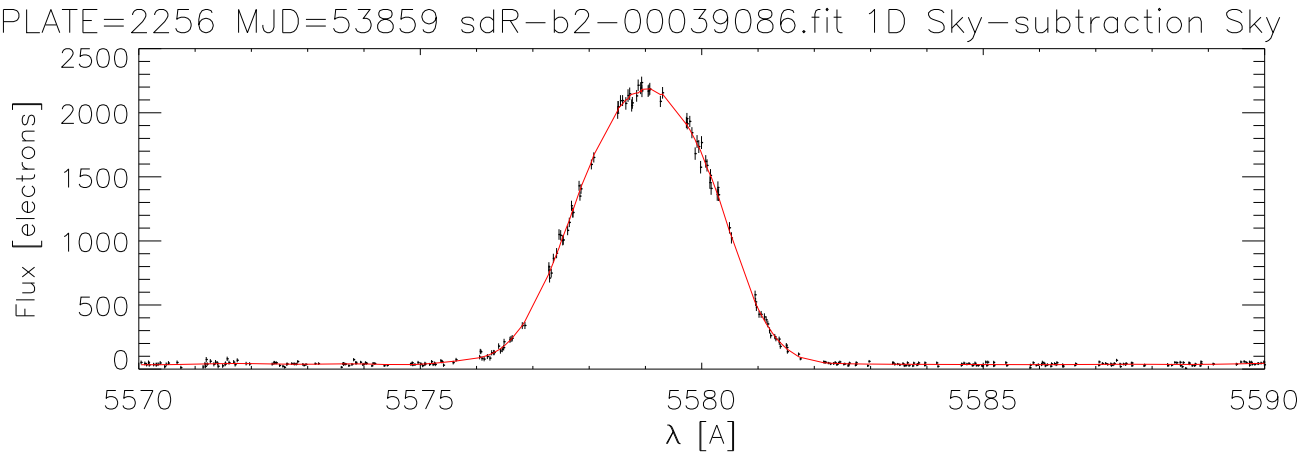

4046.5600
nfib1 22
nfib2 22
stdev 0.191
extra −0.06
4358.3300
nfib1 22
nfib2 22
stdev 0.111
extra −0.17
5460.9400
nfib1 22
nfib2 22
stdev 0.060
extra −0.07
5577.3390
nfib1 22
nfib2 22
stdev 0.016
extra −0.05
5889.9500
nfib1 22
nfib2 22
stdev 0.041
extra 0.02
5895.9240
nfib1 22
nfib2 22
stdev 0.064
extra 0.00
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

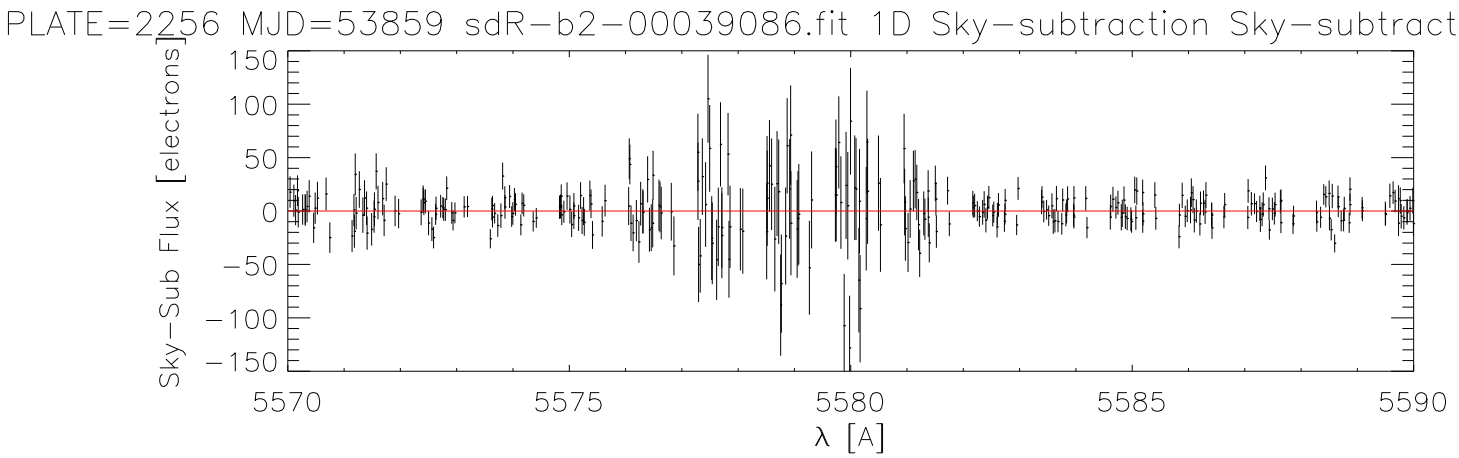

0.00
−0.05
−0.10
−0.15
−0.20
−0.25
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

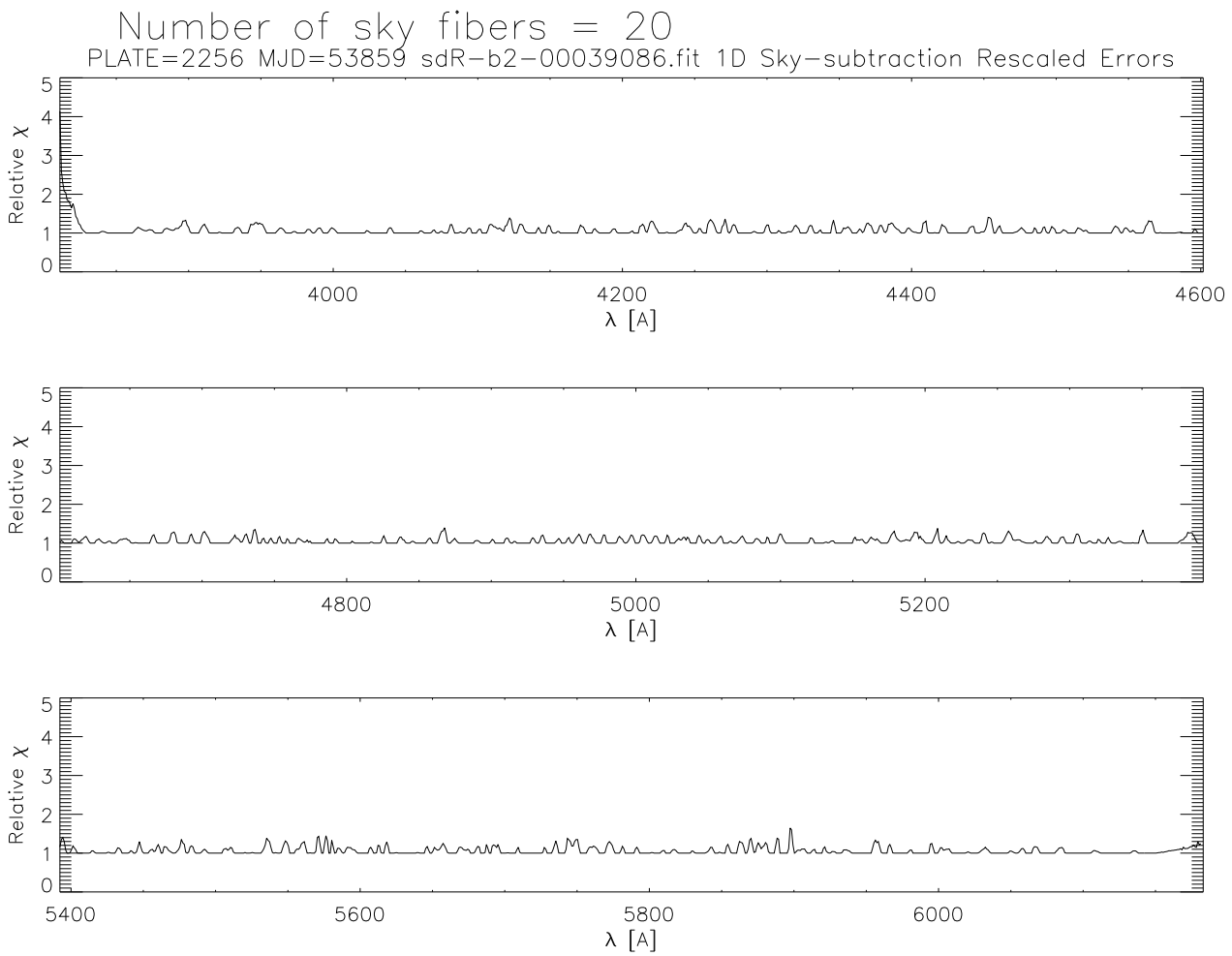

PLATE=2256 MJD=53859 Smooth superflat for sdR-b2-00039086.fit
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
4000
4500
5000
5500
6000
Wavelength (Å)

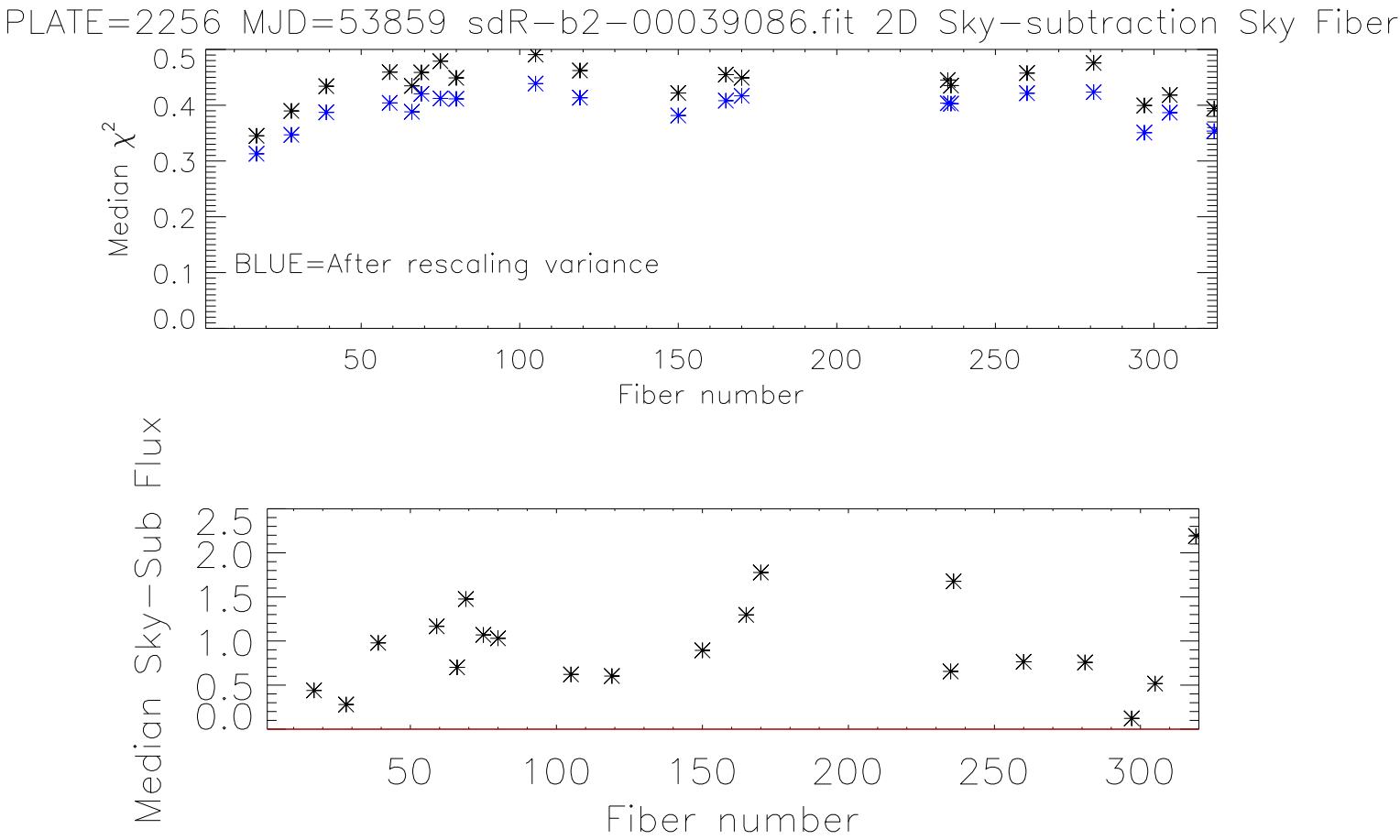
es= −0.0000

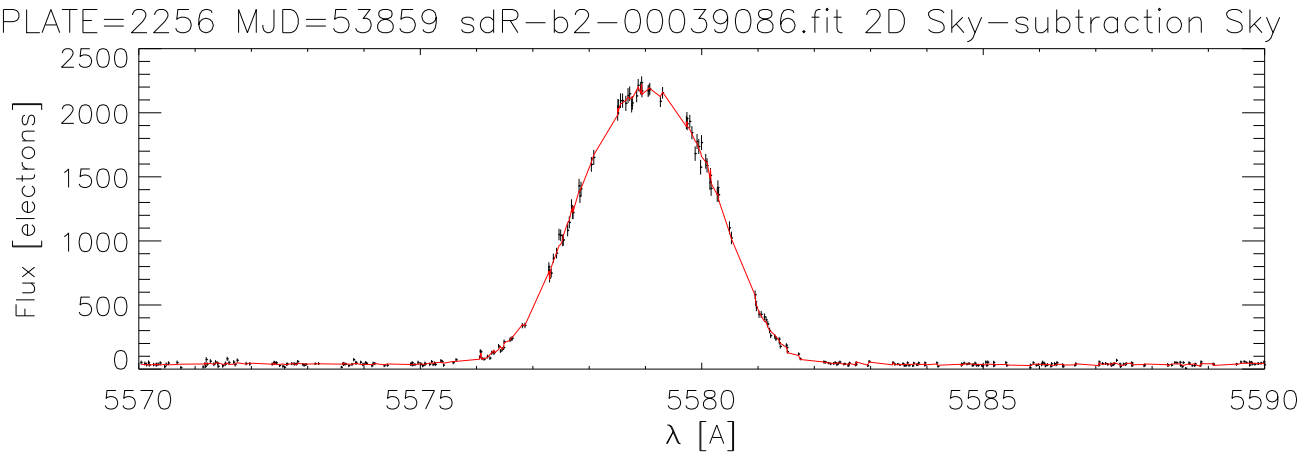

PLATE=2256 MJD=53859 sdR-b2-00039086.fit 1D Sky-subtraction Sky Fiber
Median $\chi^2$
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

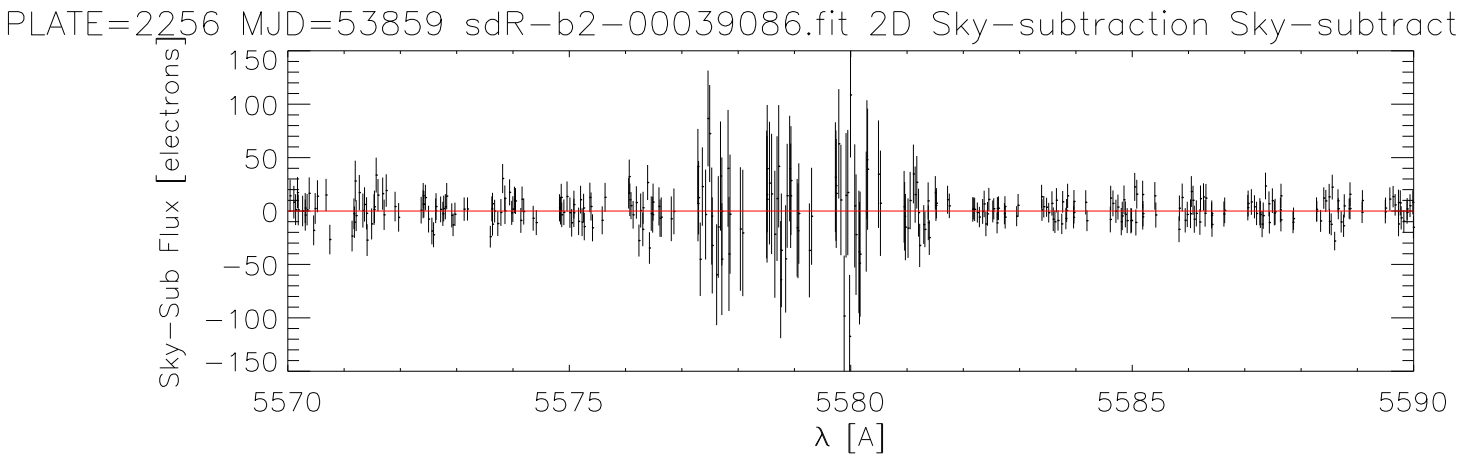

PLATE=2256 MJD=53859 sdR-b2-00039086.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

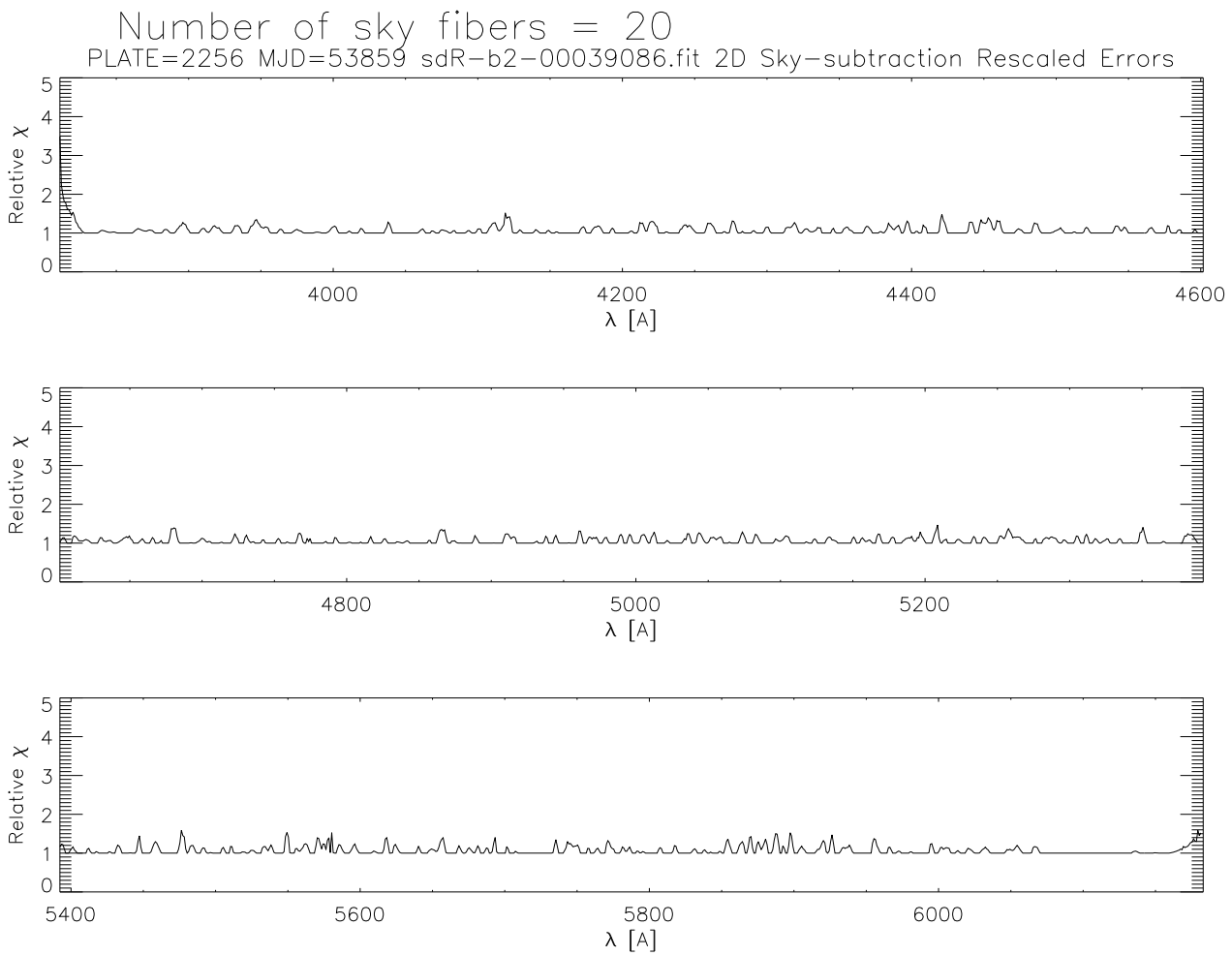

PLATE=2256 MJD=53859 sdR-b2-00039086.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
5570
5575
5580
5585
5590
λ [A]

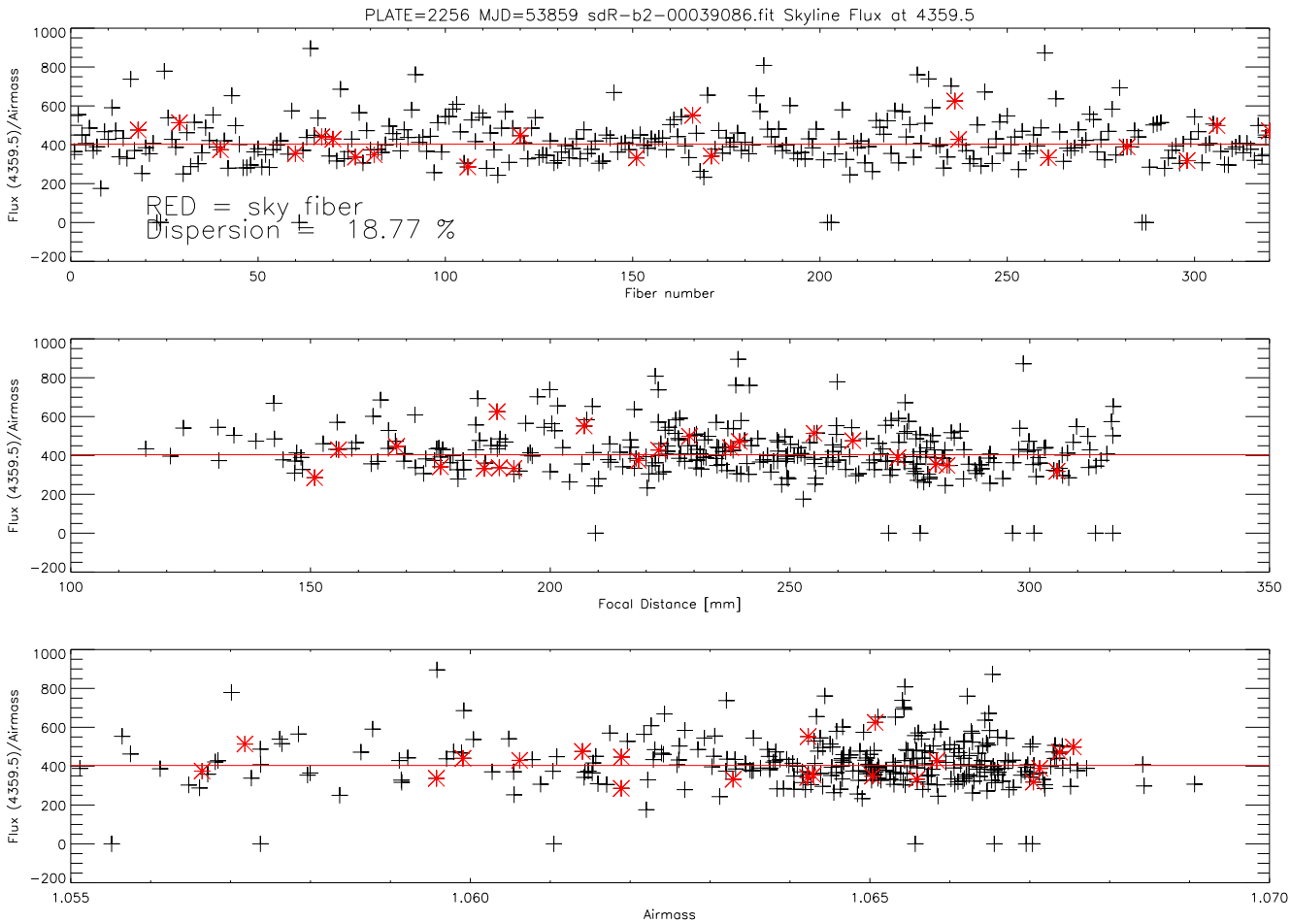

Number of sky fibers = 20
PLATE=2256 MJD=53859 sdR-b2-00039086.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

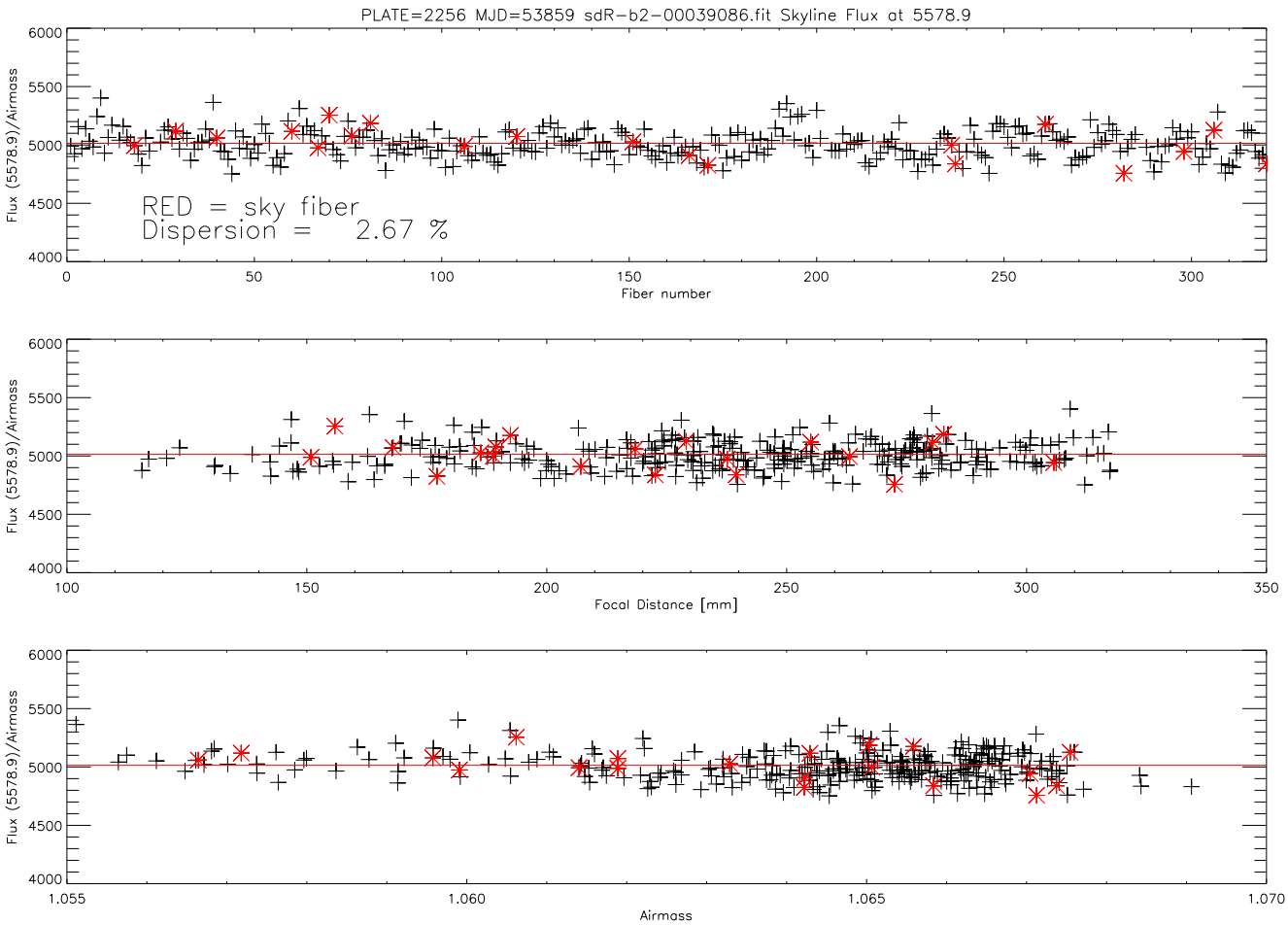

PLATE=2256 MJD=53859 sdR-b2-00039086.fit 2D Sky-subtraction Sky Fiber
Median $\chi^2$
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

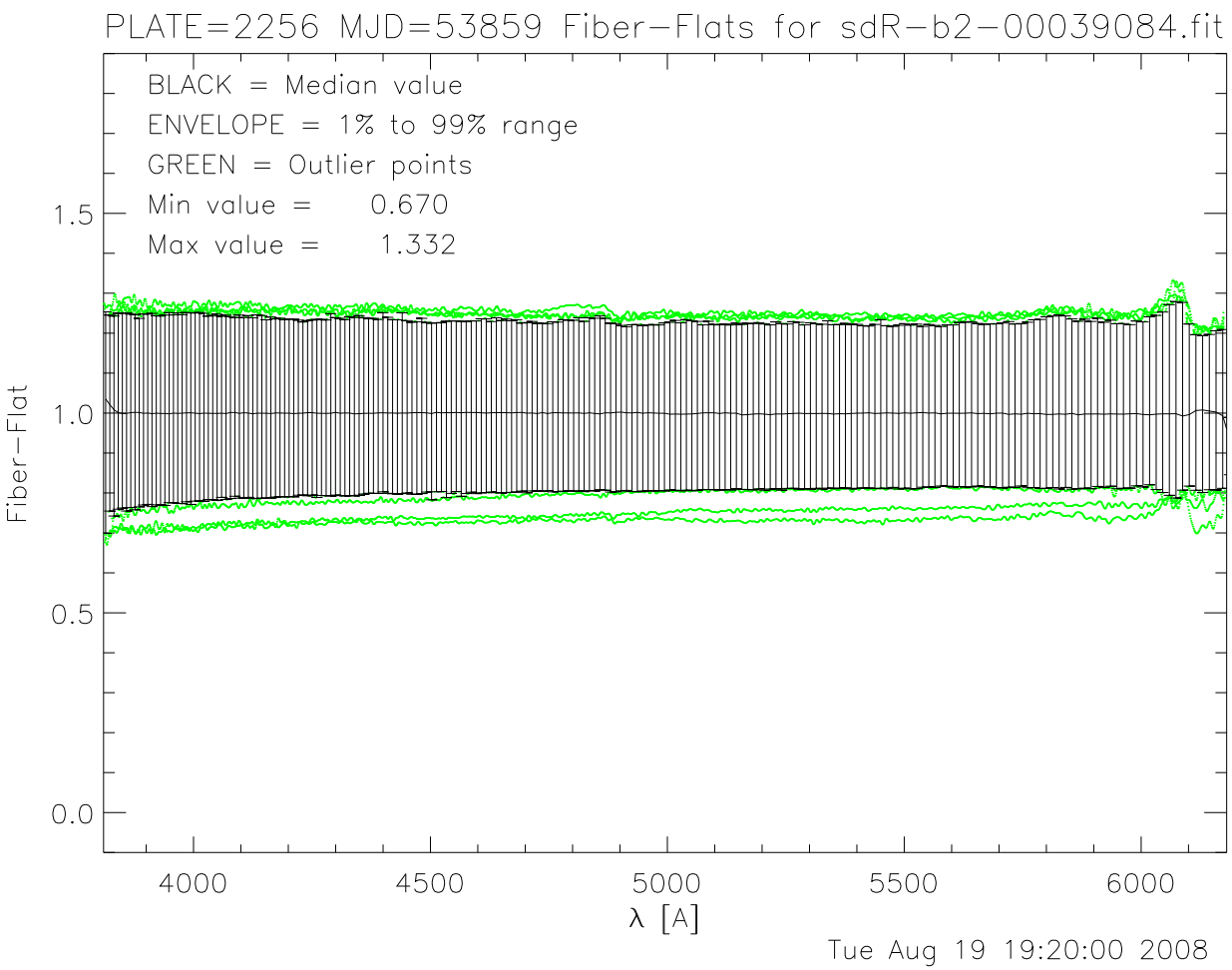

PLATE=2256 MJD=53859 sdR-b2-00039086.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]


PLATE=2256 MJD=53859 sdR-b2-00039086.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
−50
−100
−150
5570
5575
5580
5585
5590
λ [A]


Number of sky fibers = 20
PLATE=2256 MJD=53859 sdR-b2-00039086.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=2256 MJD=53859 sdR-b2-00039086.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 18.77 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass


PLATE=2256 MJD=53859 sdR-b2-00039086.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.67 %
Fiber number
Focal Distance [mm]
Airmass


PLATE=2256 MJD=53859 Fiber-Flats for sdR-b2-00039084.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.670
Max value = 1.332
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
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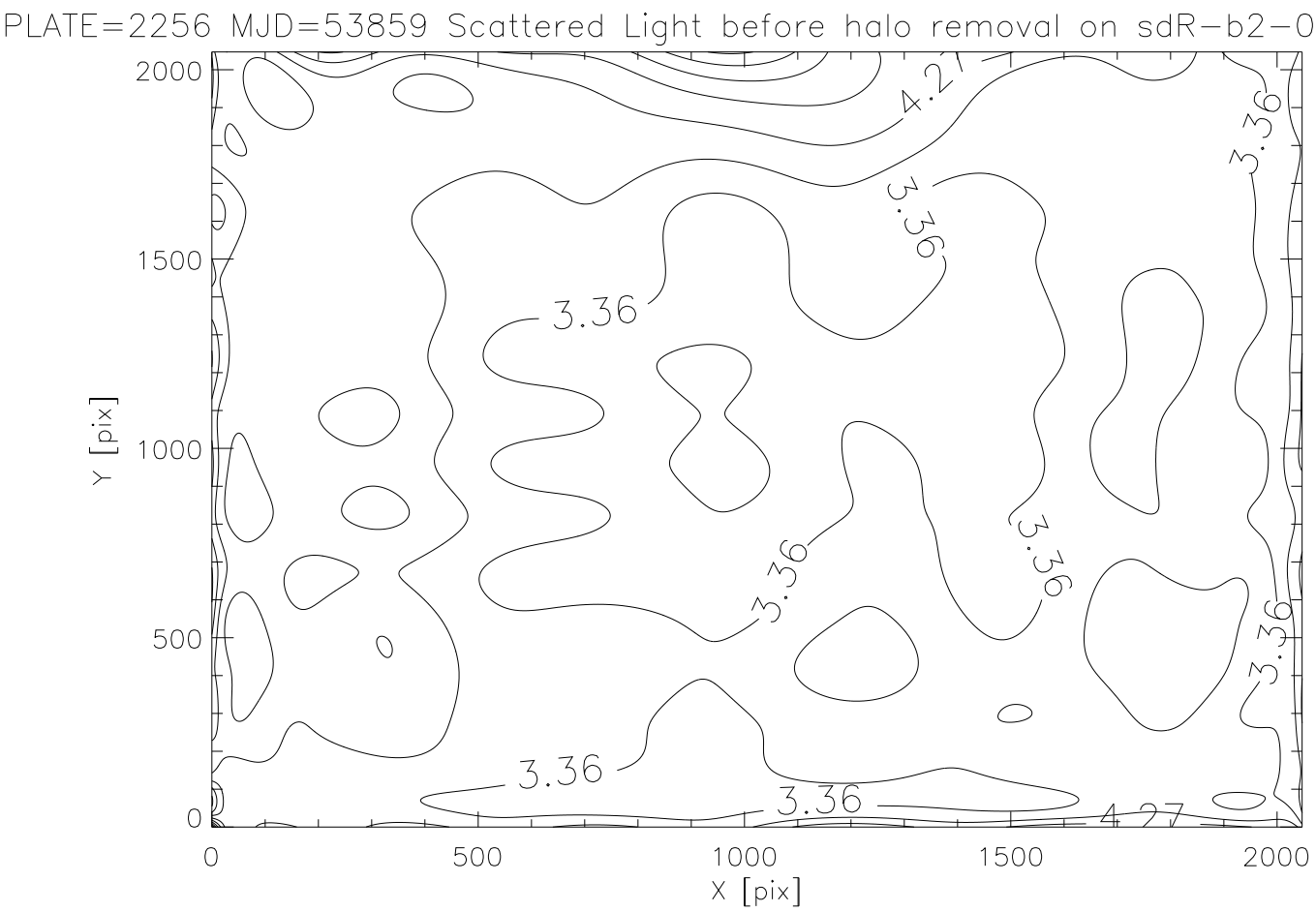
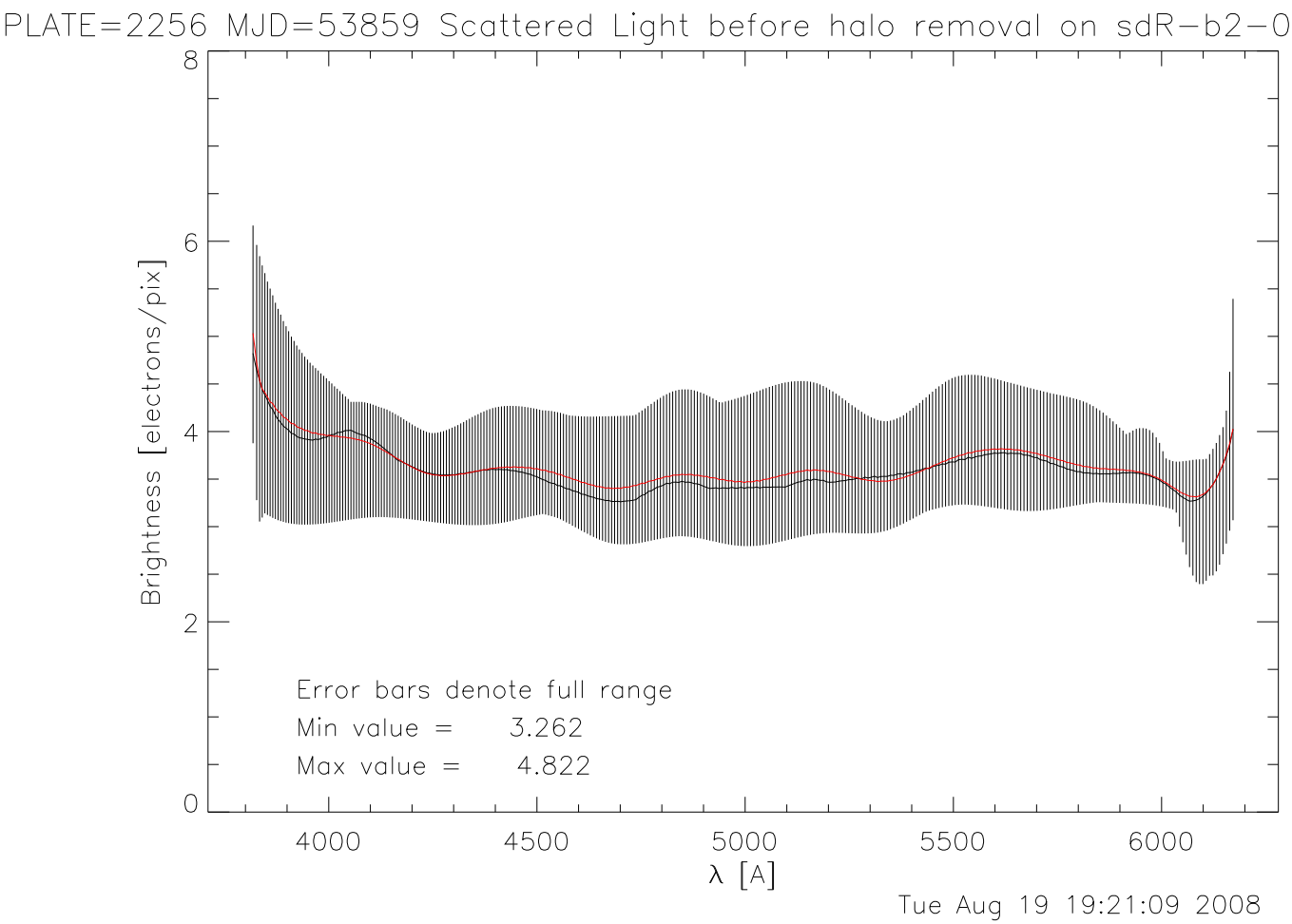
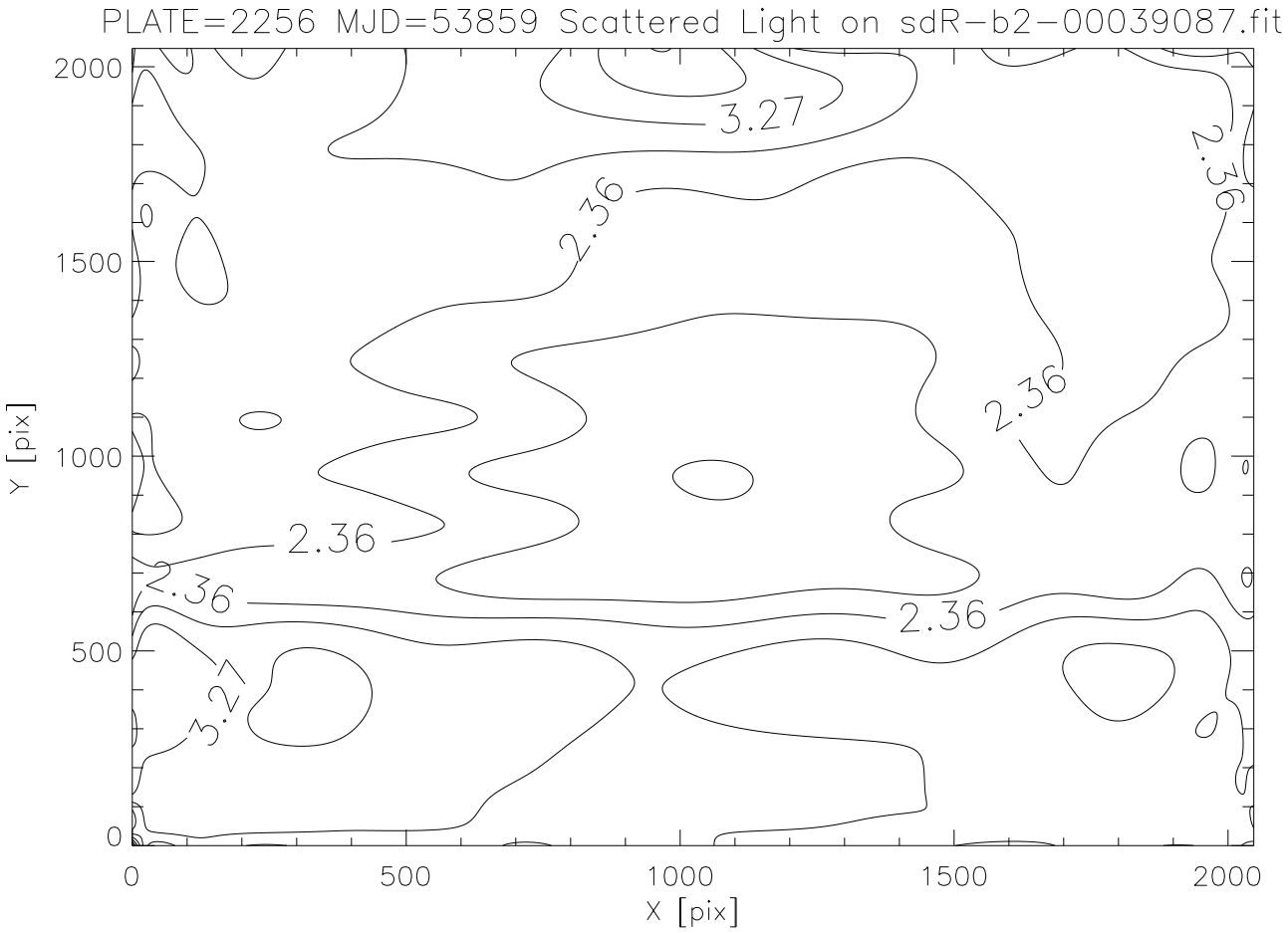
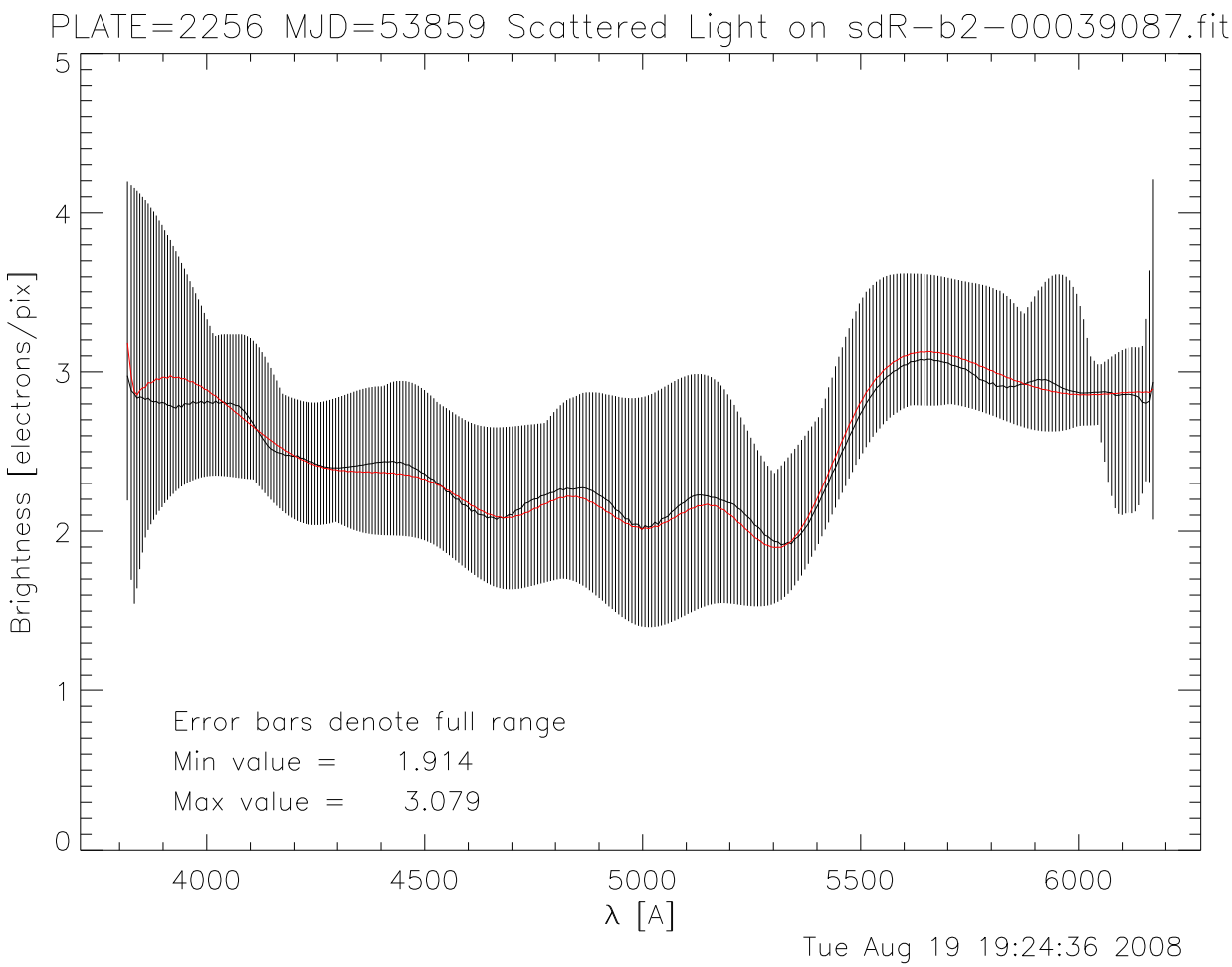
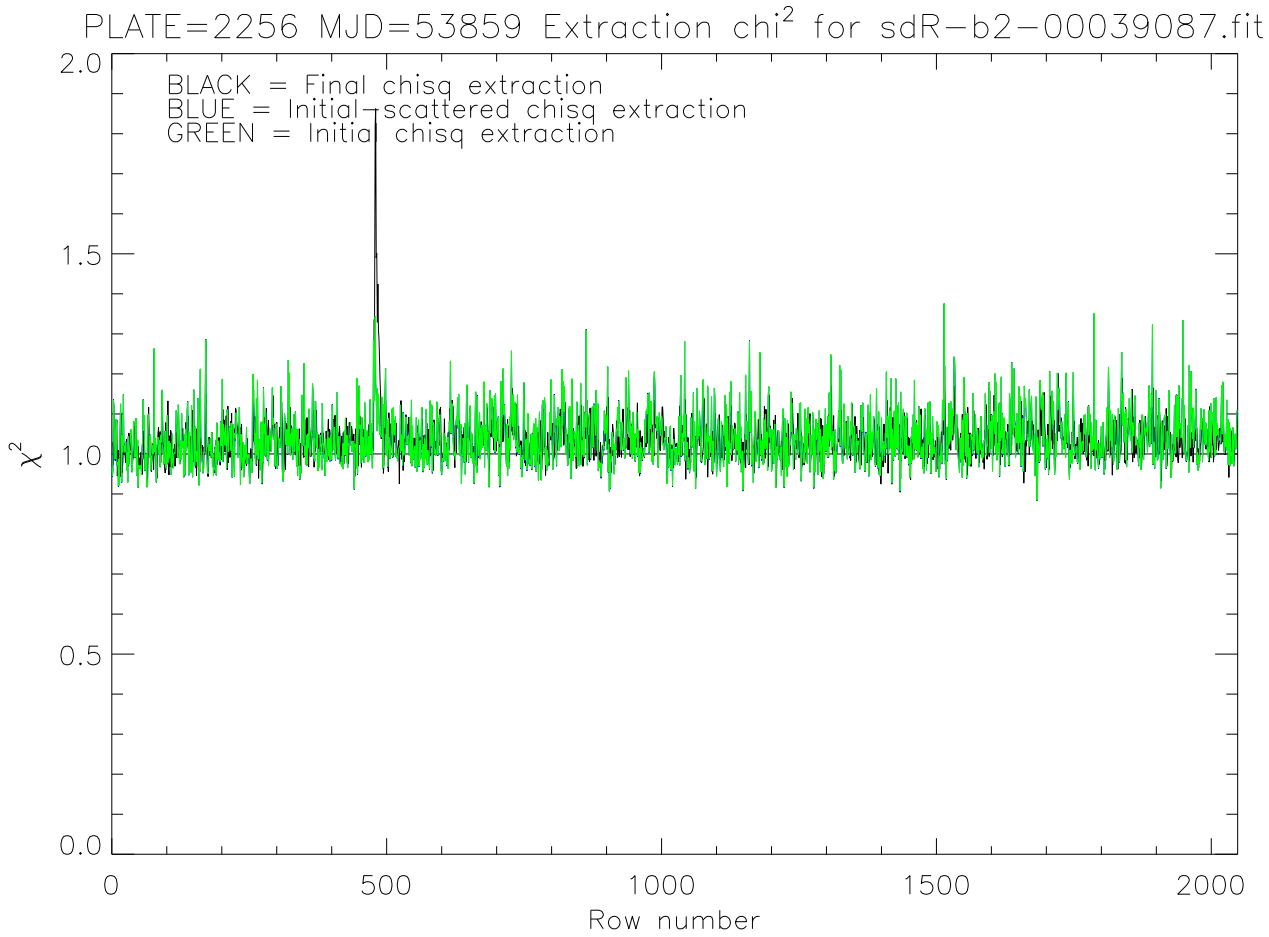
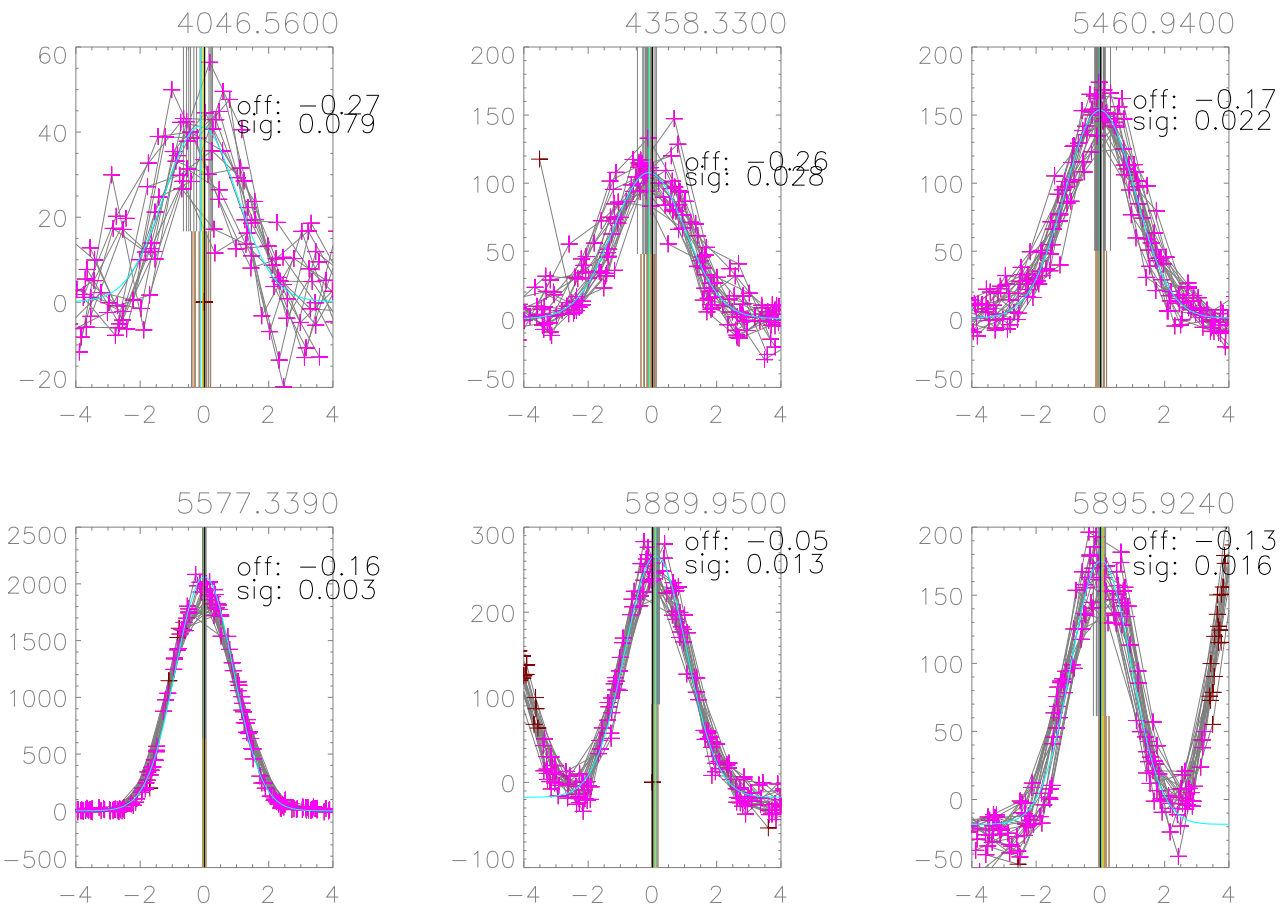

PLATE=2256 MJD=53859 Scattered Light before halo removal on sdR-b2-00039087.f
Y [pix]
X [pix]
0
500
1000
1500
2000
4.21
3.36
3.36
3.36
3.36
3.36
3.36
3.36
3.36
4.27
0
0
0
0

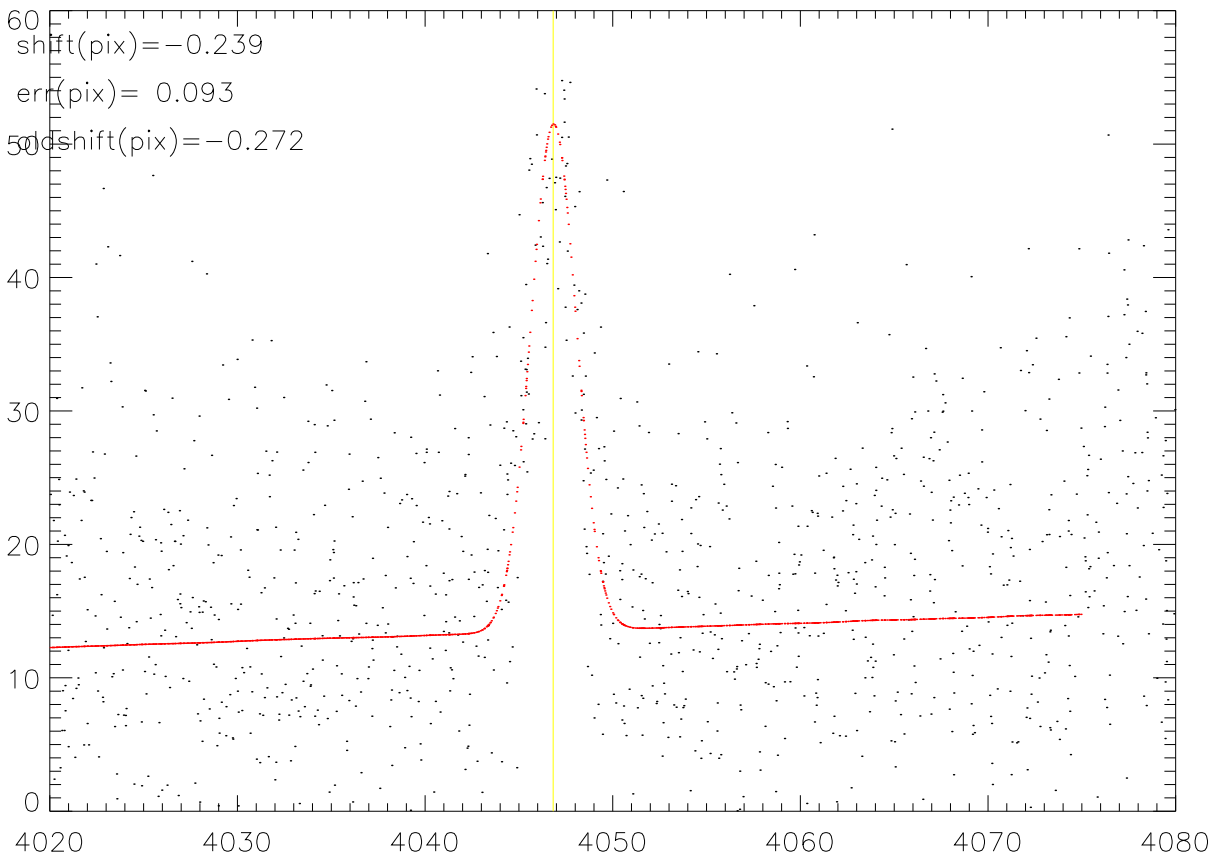

PLATE=2256 MJD=53859 Scattered Light before halo removal on sdR−b2−00039087.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.262
Max value = 4.822
Tue Aug 19 19:21:09 2008

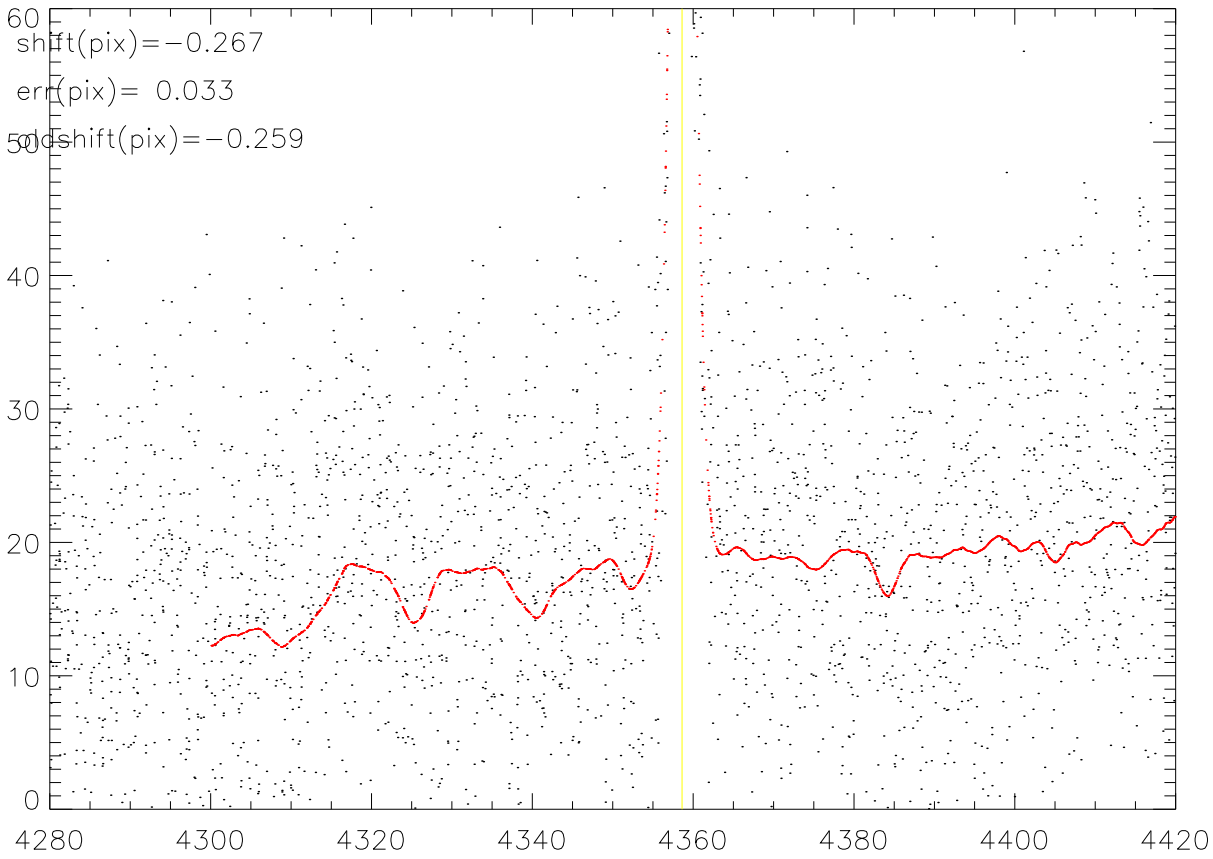

PLATE=2256 MJD=53859 Scattered Light on sdR-b2-00039087.fit
3.27
2.36
2.36
2.36
2.36
2.36
2.36
3.27
Y [pix]
X [pix]
0
500
1000
1500
2000

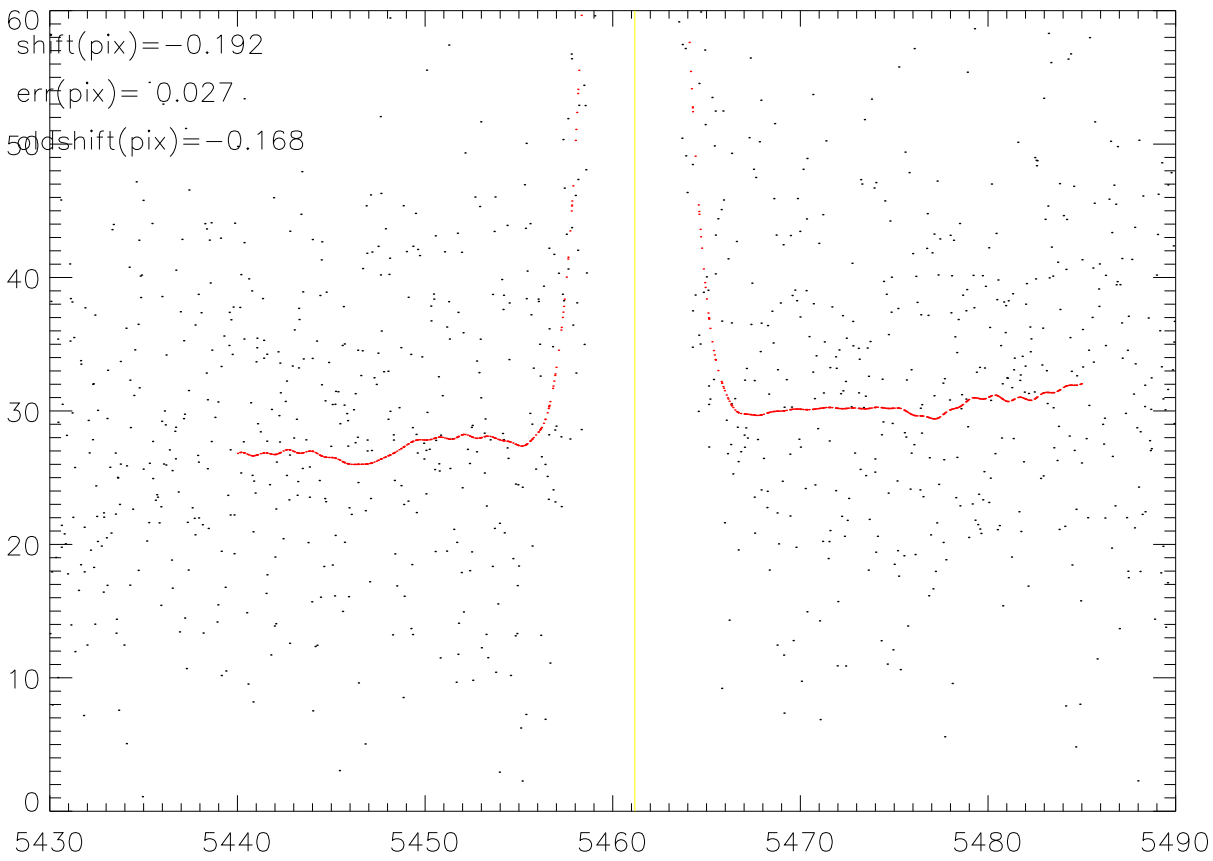

PLATE=2256 MJD=53859 Scattered Light on sdR-b2-00039087.fit
Brightness [electrons/pix]
0
1
2
3
4
5
Error bars denote full range
Min value = 1.914
Max value = 3.079
4000
4500
5000
5500
6000
λ [A]
Tue Aug 19 19:24:36 2008

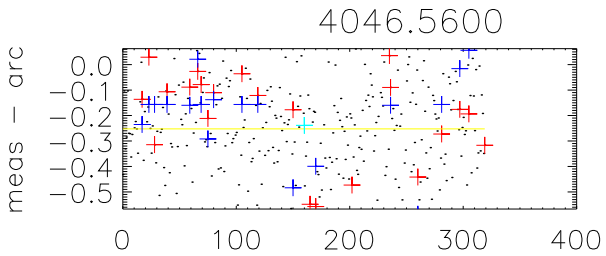

PLATE=2256 MJD=53859 Extraction chi$^2$ for sdR-b2-00039087.fit
BLACK = Final chisq extraction
BLUE = Initial scattered chisq extraction
GREEN = Initial chisq extraction
$\chi^2$
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

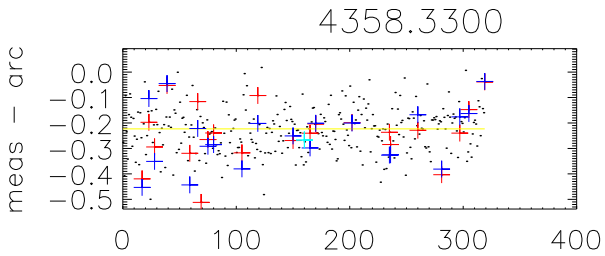

4046.5600
off: −0.27
sig: 0.079
4358.3300
off: −0.26
sig: 0.028
5460.9400
off: −0.17
sig: 0.022
5577.3390
off: −0.16
sig: 0.003
5889.9500
off: −0.05
sig: 0.013
5895.9240
off: −0.13
sig: 0.016

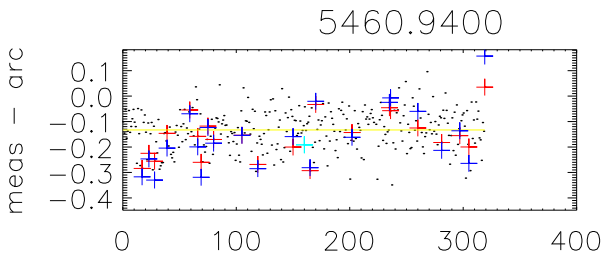

shift(pix)=−0.239
err(pix)= 0.093
oldshift(pix)=−0.272
60
50
40
30
20
10
0
4020
4030
4040
4050
4060
4070
4080

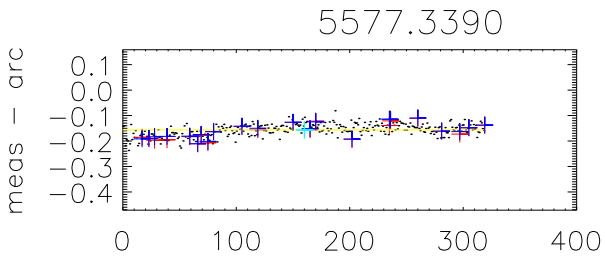

shift(pix)=−0.267
err(pix)= 0.033
oldshift(pix)=−0.259
60
50
40
30
20
10
0
4280
4300
4320
4340
4360
4380
4400
4420

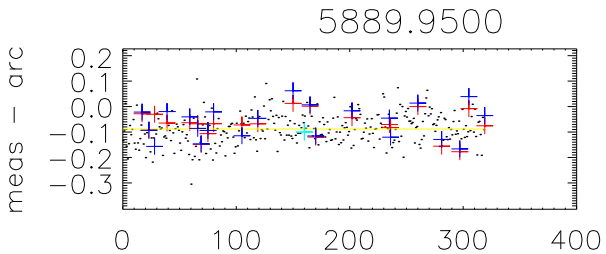

shift(pix)=−0.192
err(pix)= 0.027
oldshift(pix)=−0.168
60
50
40
30
20
10
0
5430
5440
5450
5460
5470
5480
5490

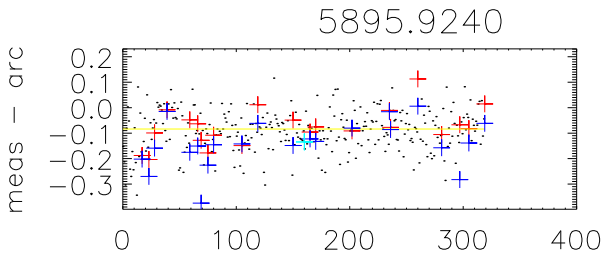

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

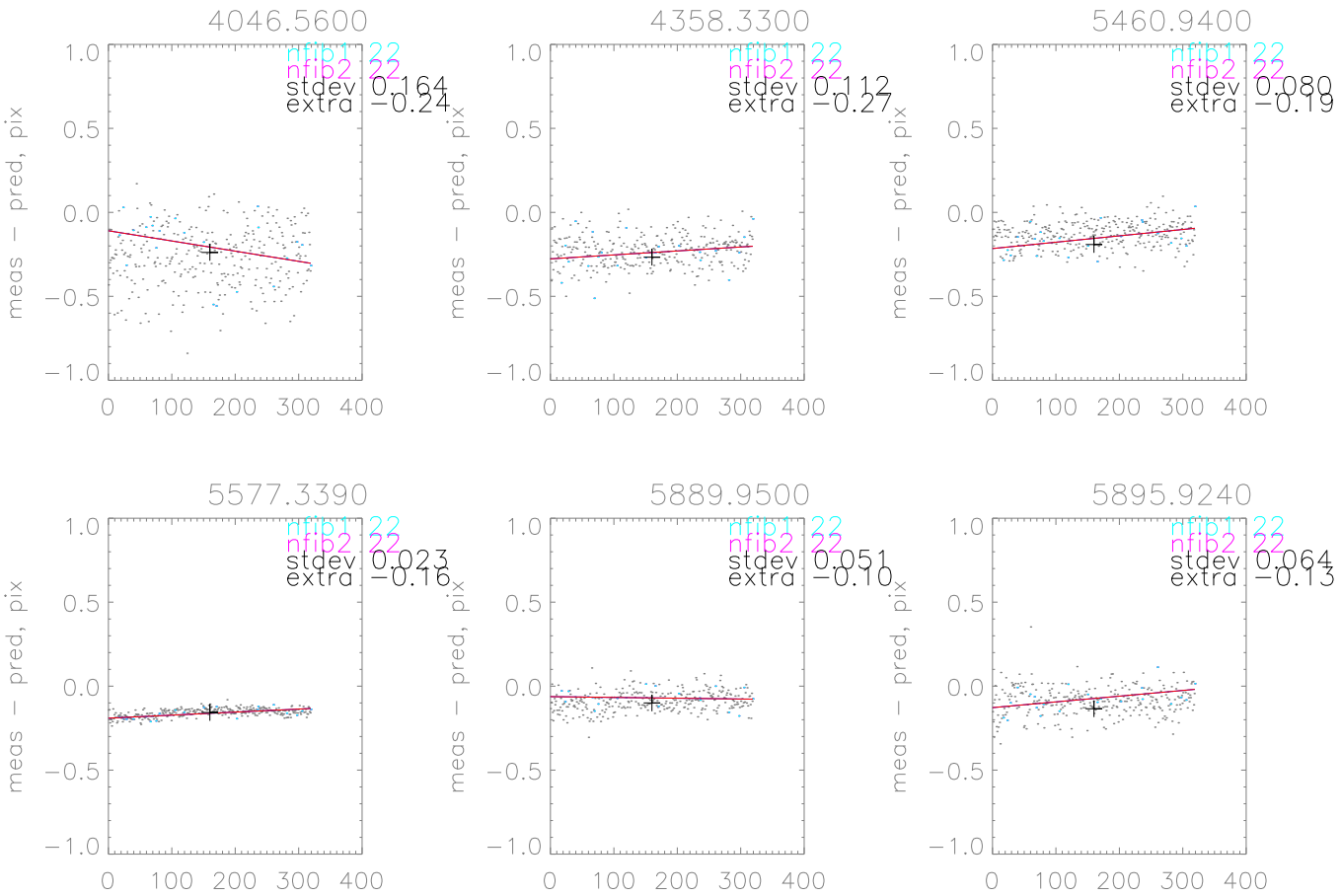

4358.3300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

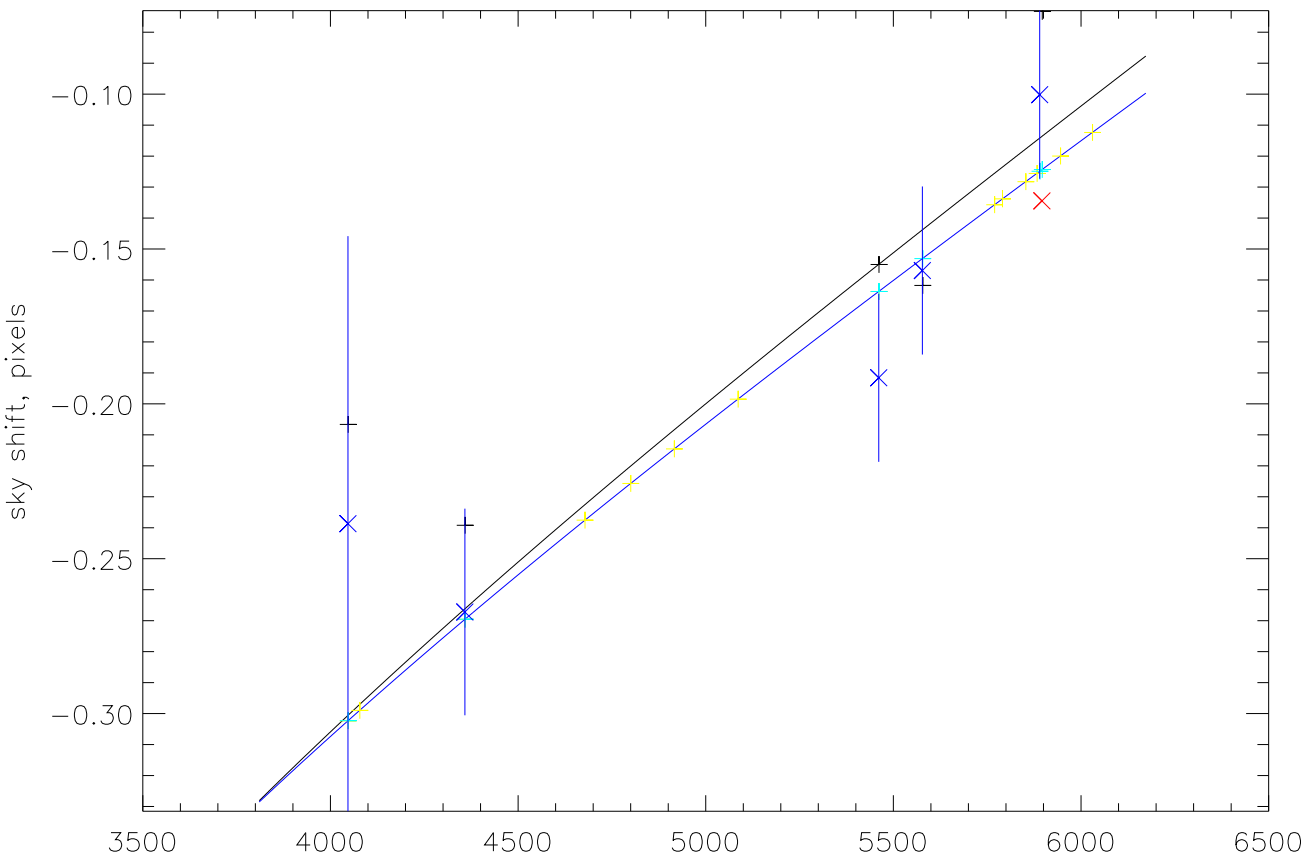

5460.9400
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

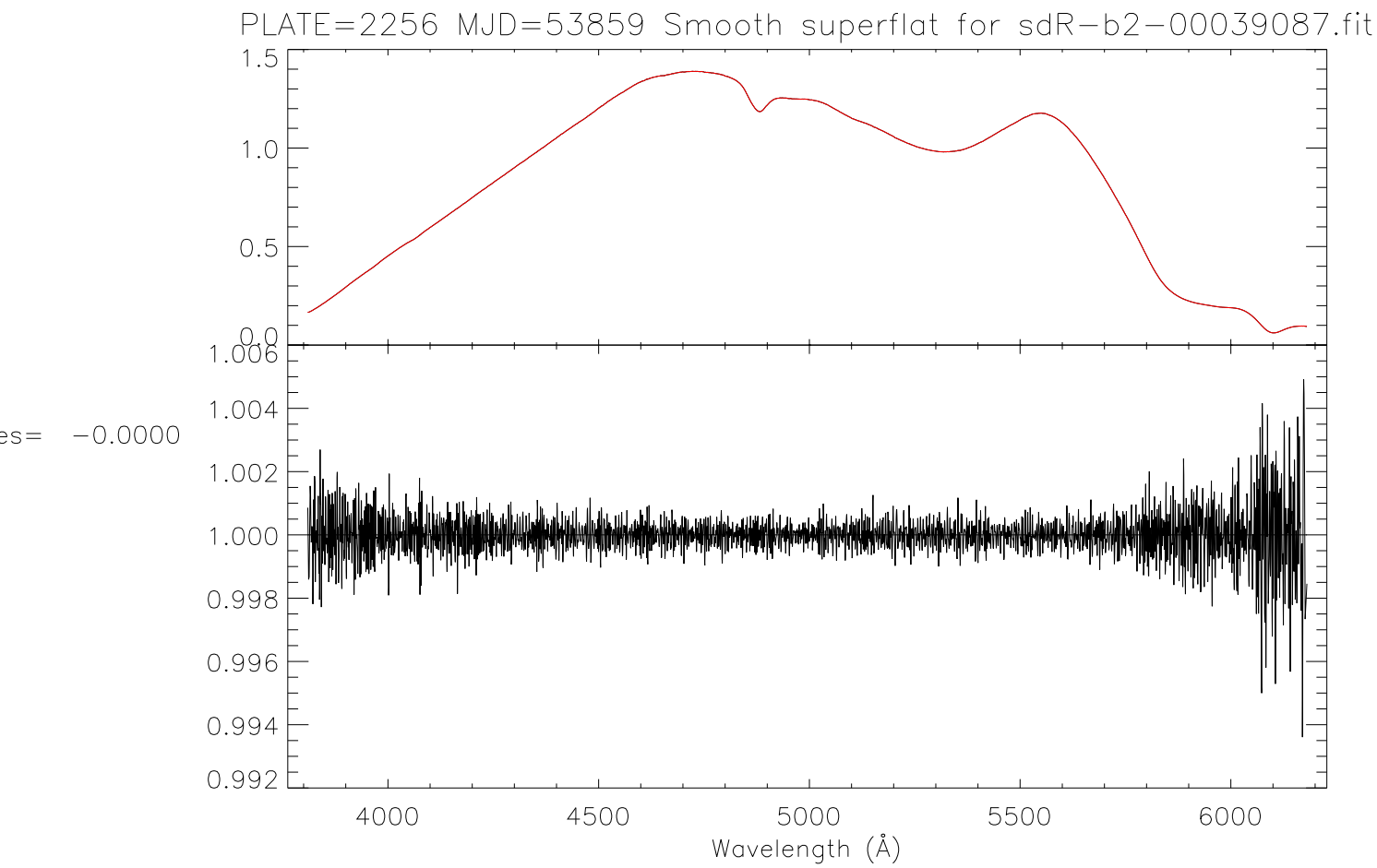

5577.3390
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


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

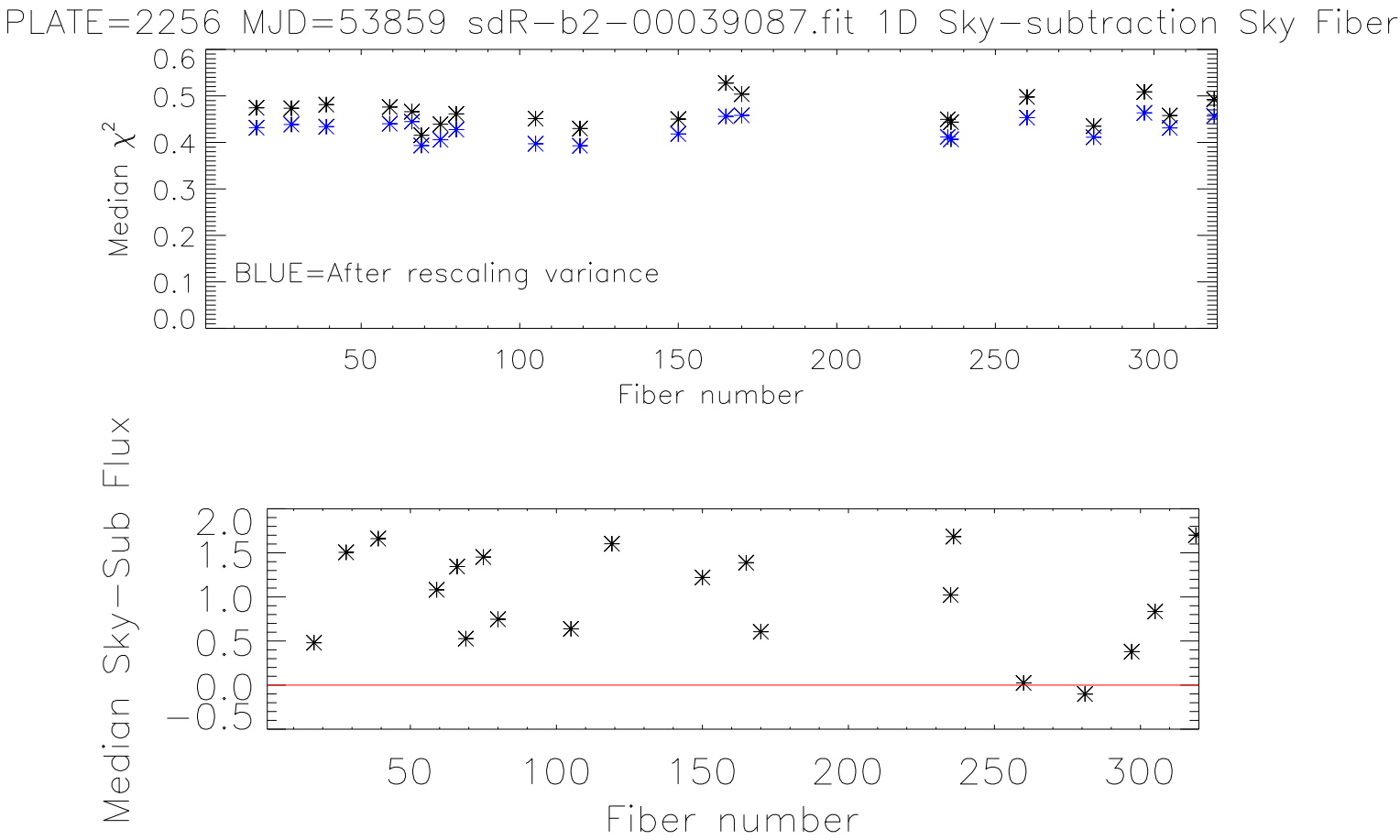

5895.9240
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

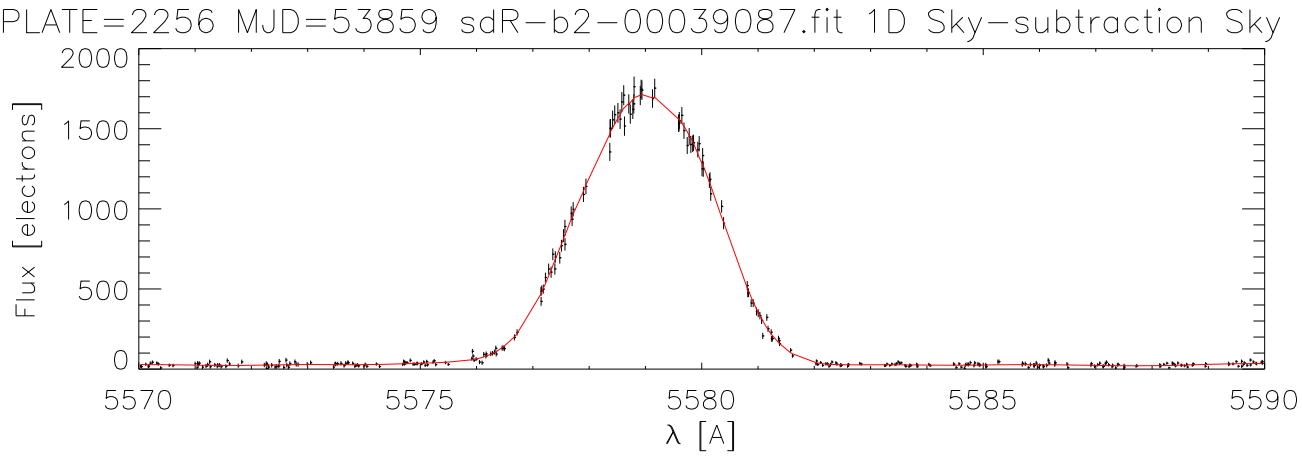

4046.5600
nfib1 22
nfib2 22
stdev 0.164
extra −0.24
4358.3300
nfib1 22
nfib2 22
stdev 0.112
extra −0.27
5460.9400
nfib1 22
nfib2 22
stdev 0.080
extra −0.19
5577.3390
nfib1 22
nfib2 22
stdev 0.023
extra −0.16
5889.9500
nfib1 22
nfib2 22
stdev 0.051
extra −0.10
5895.9240
nfib1 22
nfib2 22
stdev 0.064
extra −0.13
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

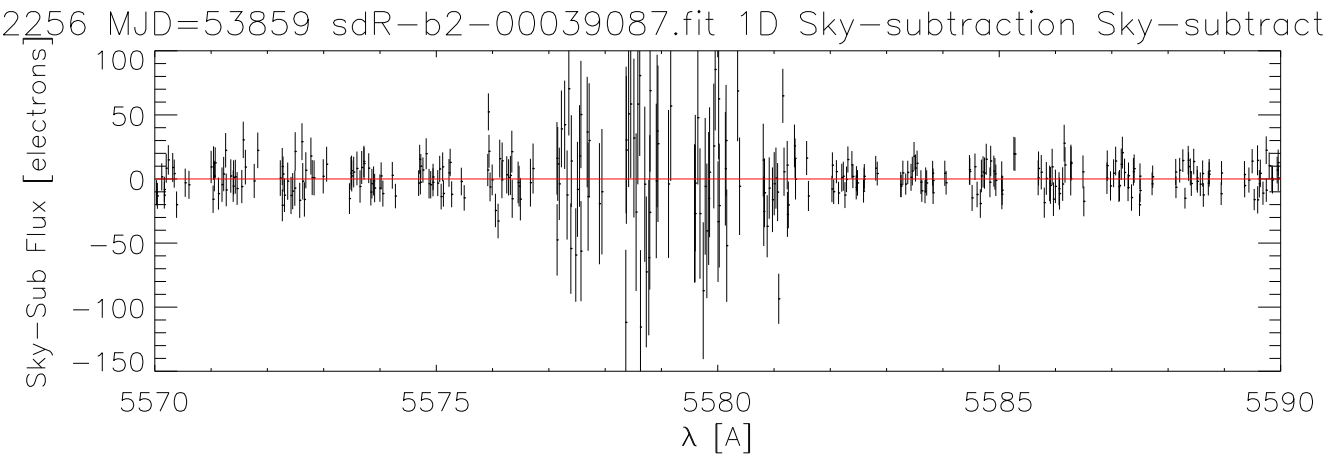

sky shift, pixels
−0.10
−0.15
−0.20
−0.25
−0.30
3500
4000
4500
5000
5500
6000
6500

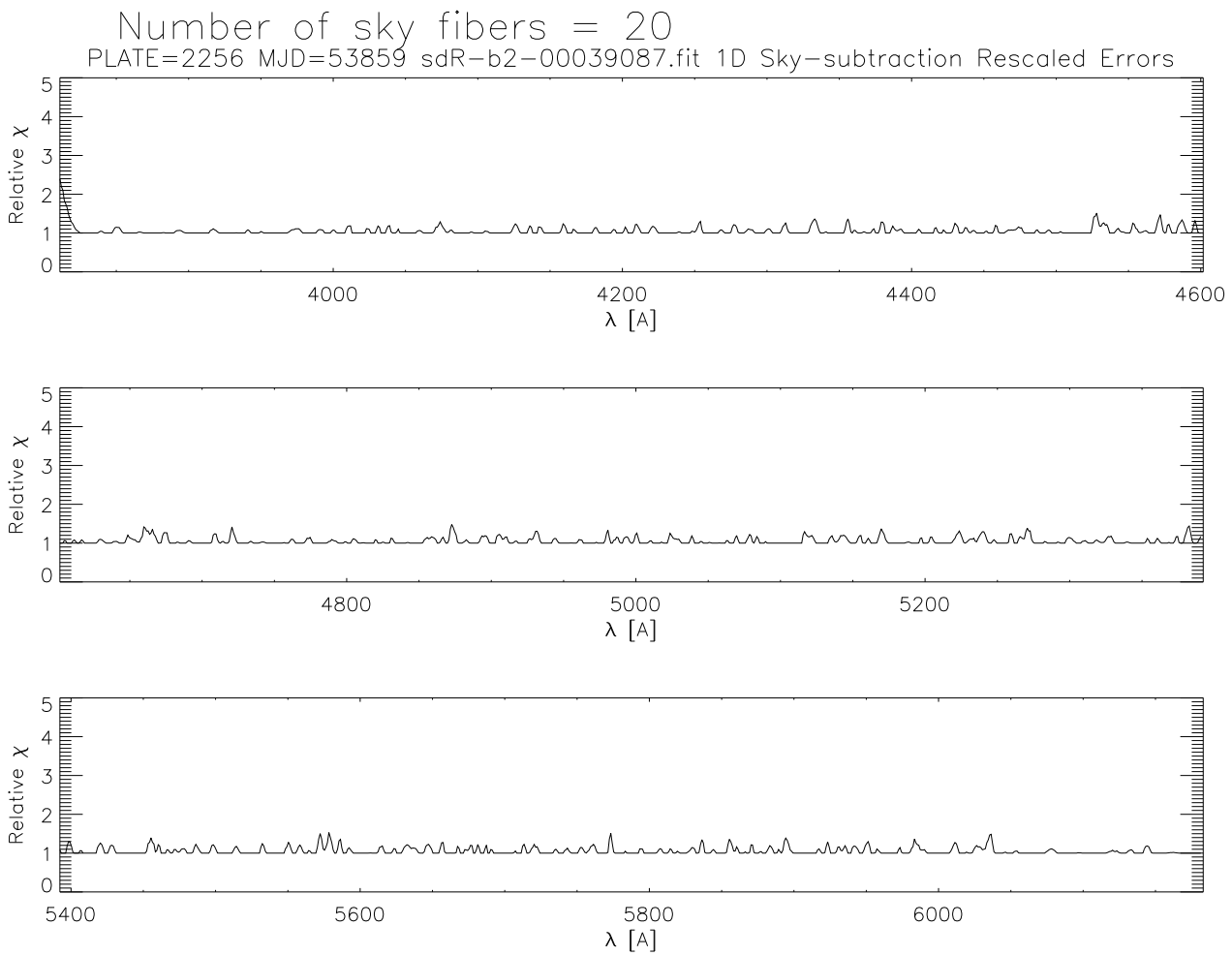

PLATE=2256 MJD=53859 Smooth superflat for sdR-b2-00039087.fit
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
4000
4500
5000
5500
6000
Wavelength (Å)

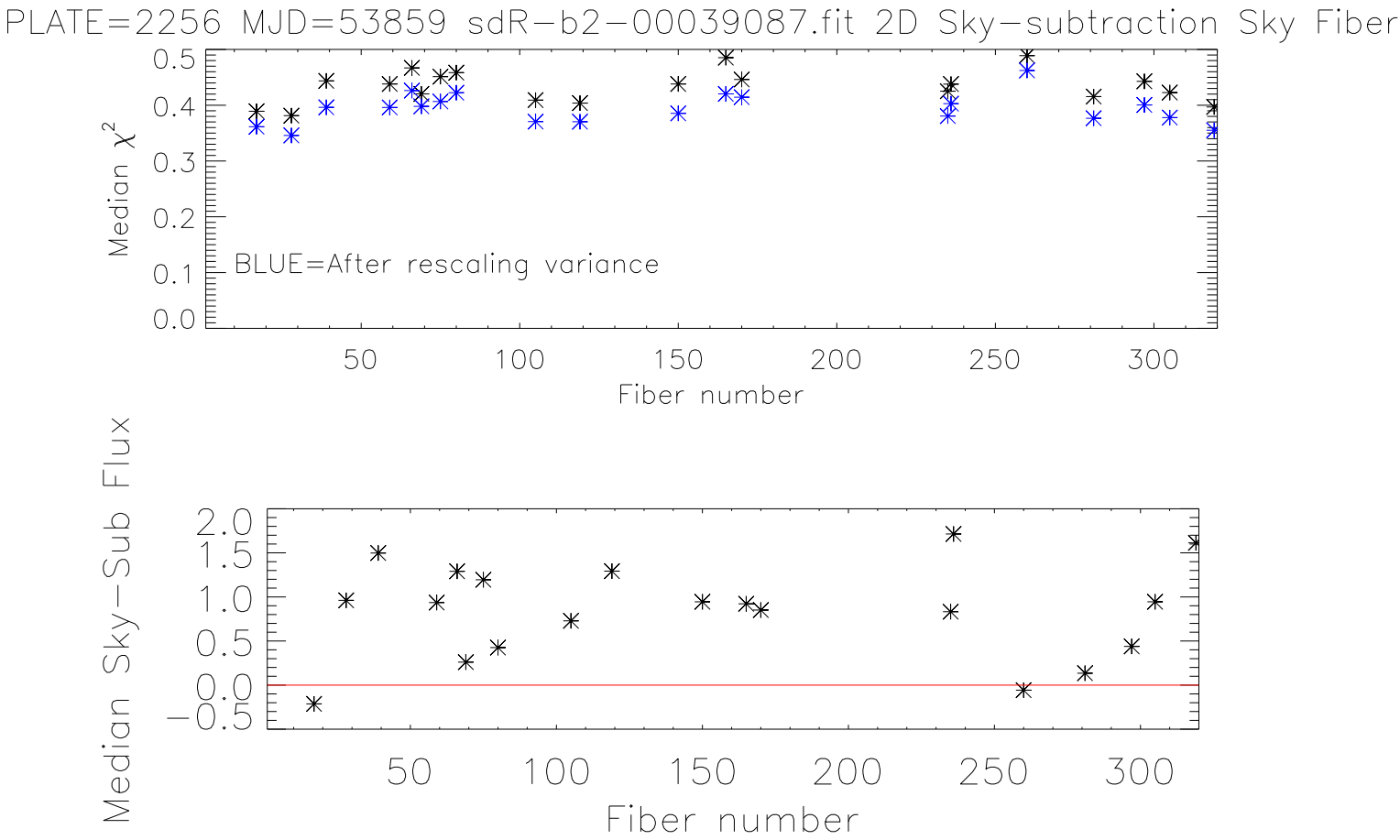
es= −0.0000

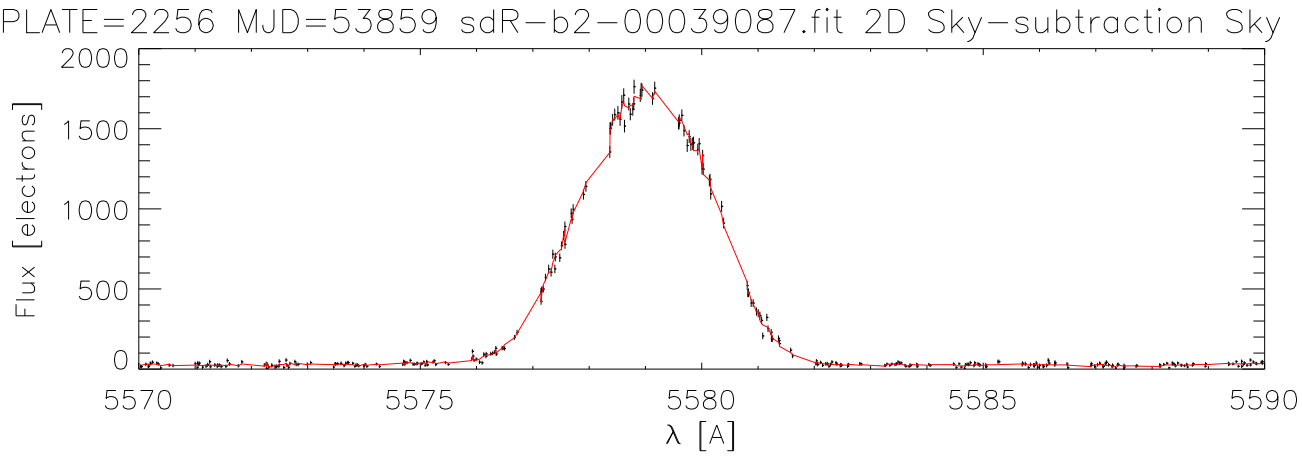

PLATE=2256 MJD=53859 sdR-b2-00039087.fit 1D Sky-subtraction Sky Fiber
Median $\chi^2$
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

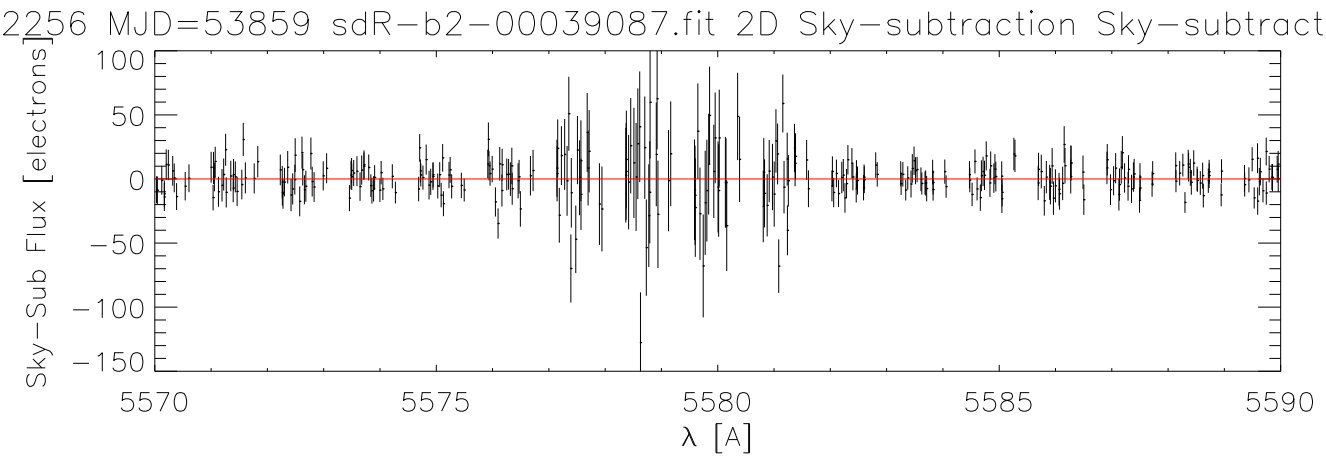

PLATE=2256 MJD=53859 sdR-b2-00039087.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

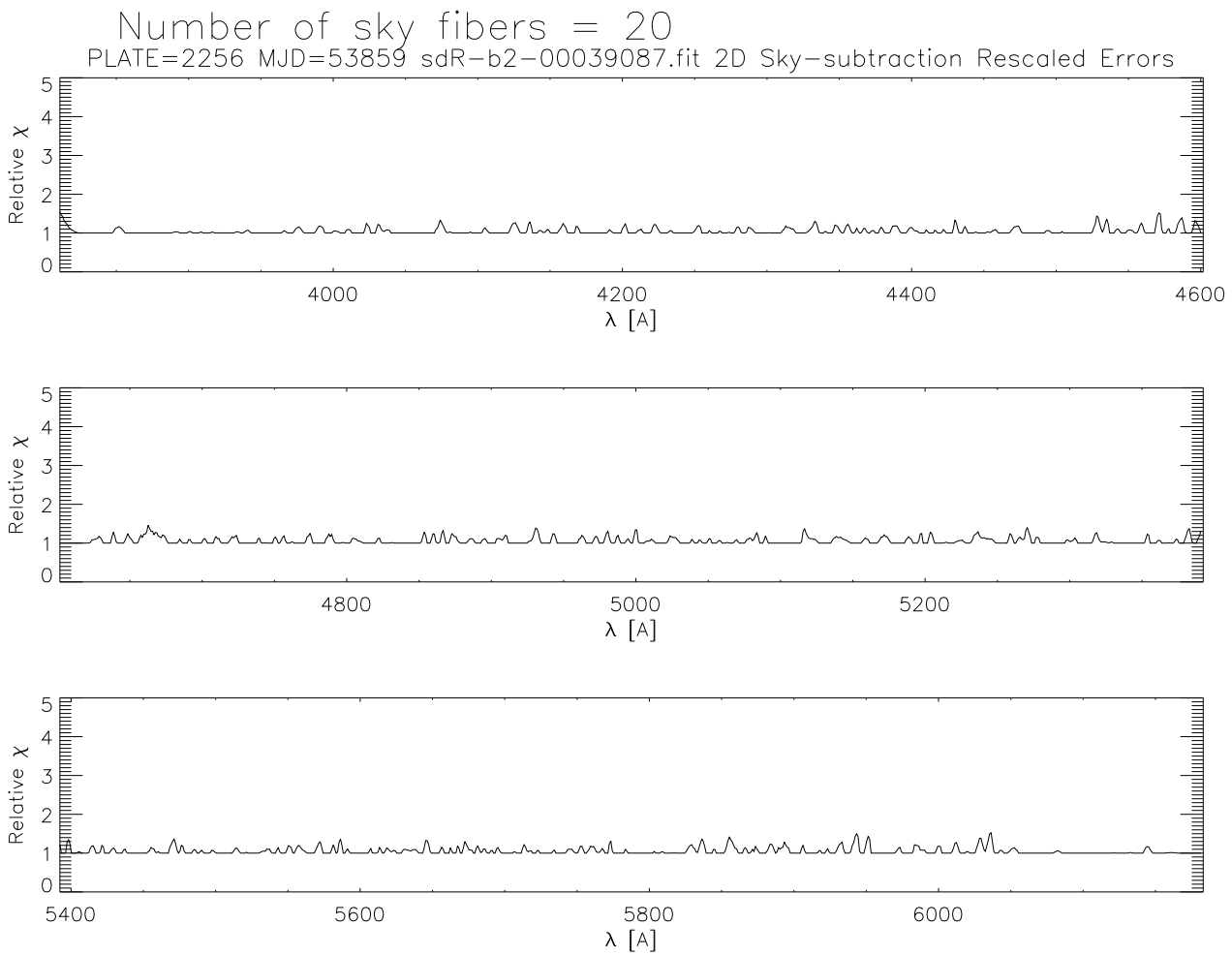

PLATE=2256 MJD=53859 sdR-b2-00039087.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
−50
−100
−150
5570
5575
5580
5585
5590
λ [A]

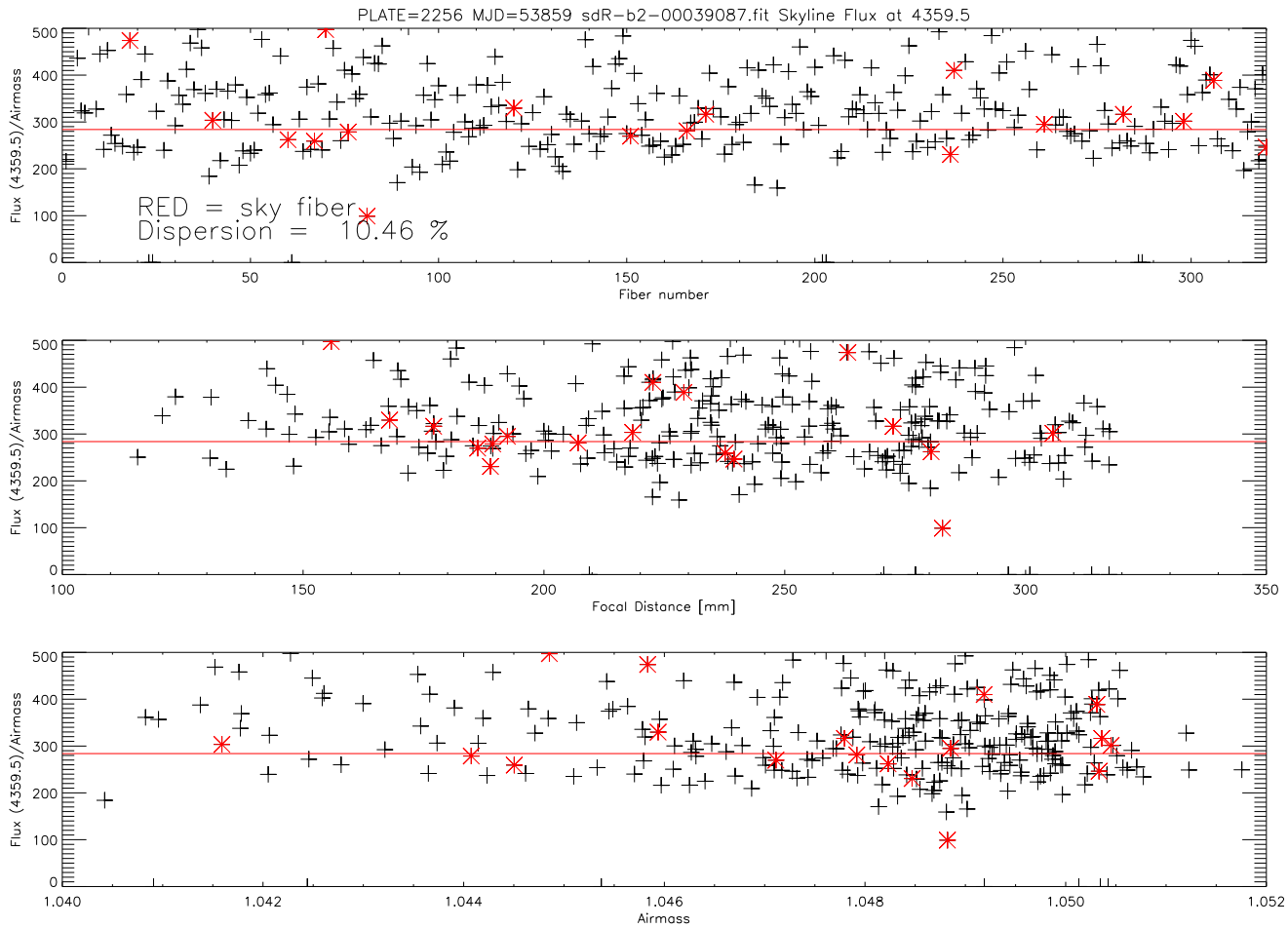

Number of sky fibers = 20
PLATE=2256 MJD=53859 sdR-b2-00039087.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

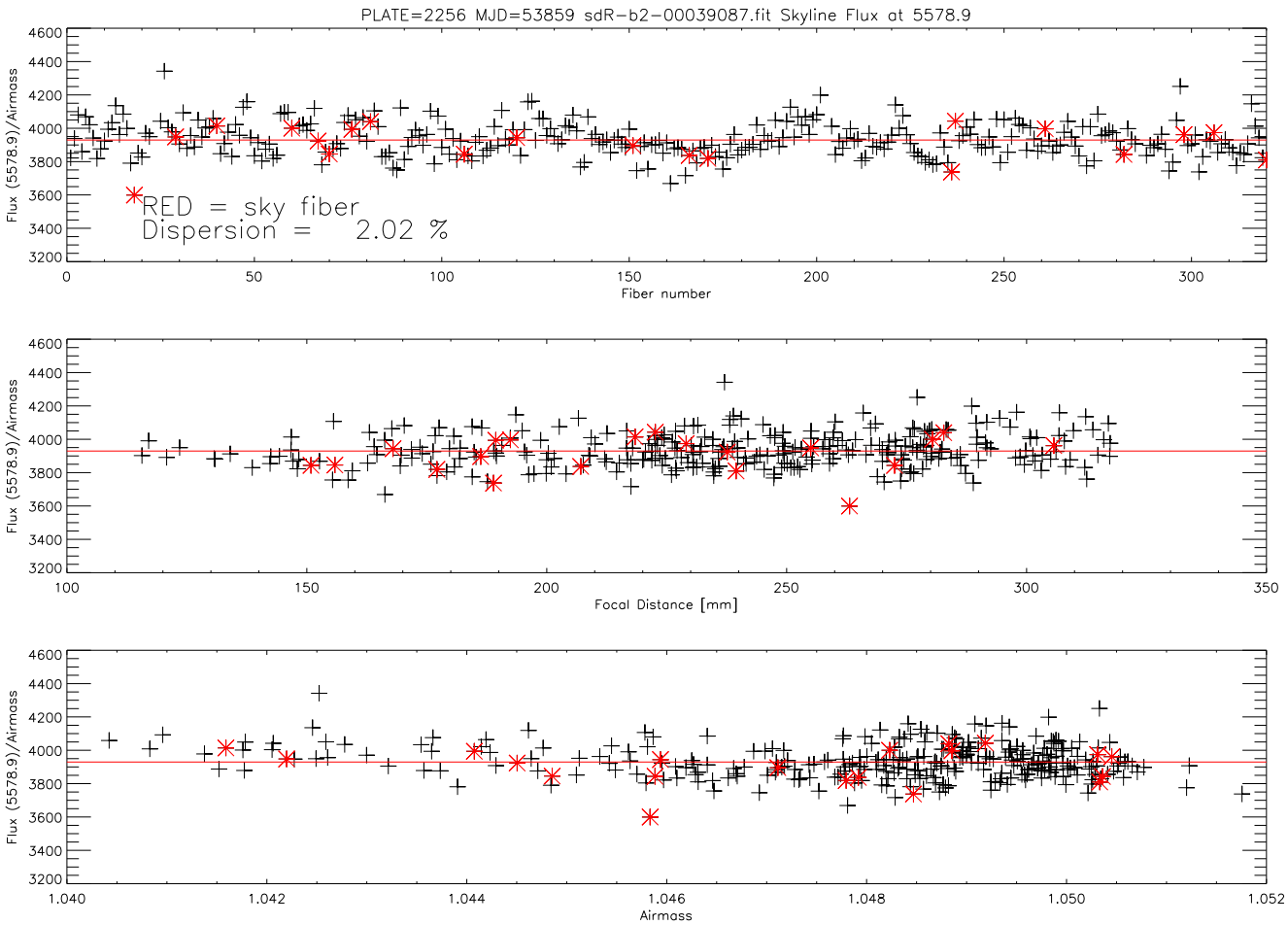

PLATE=2256 MJD=53859 sdR-b2-00039087.fit 2D Sky-subtraction Sky Fiber
Median $\chi^2$
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

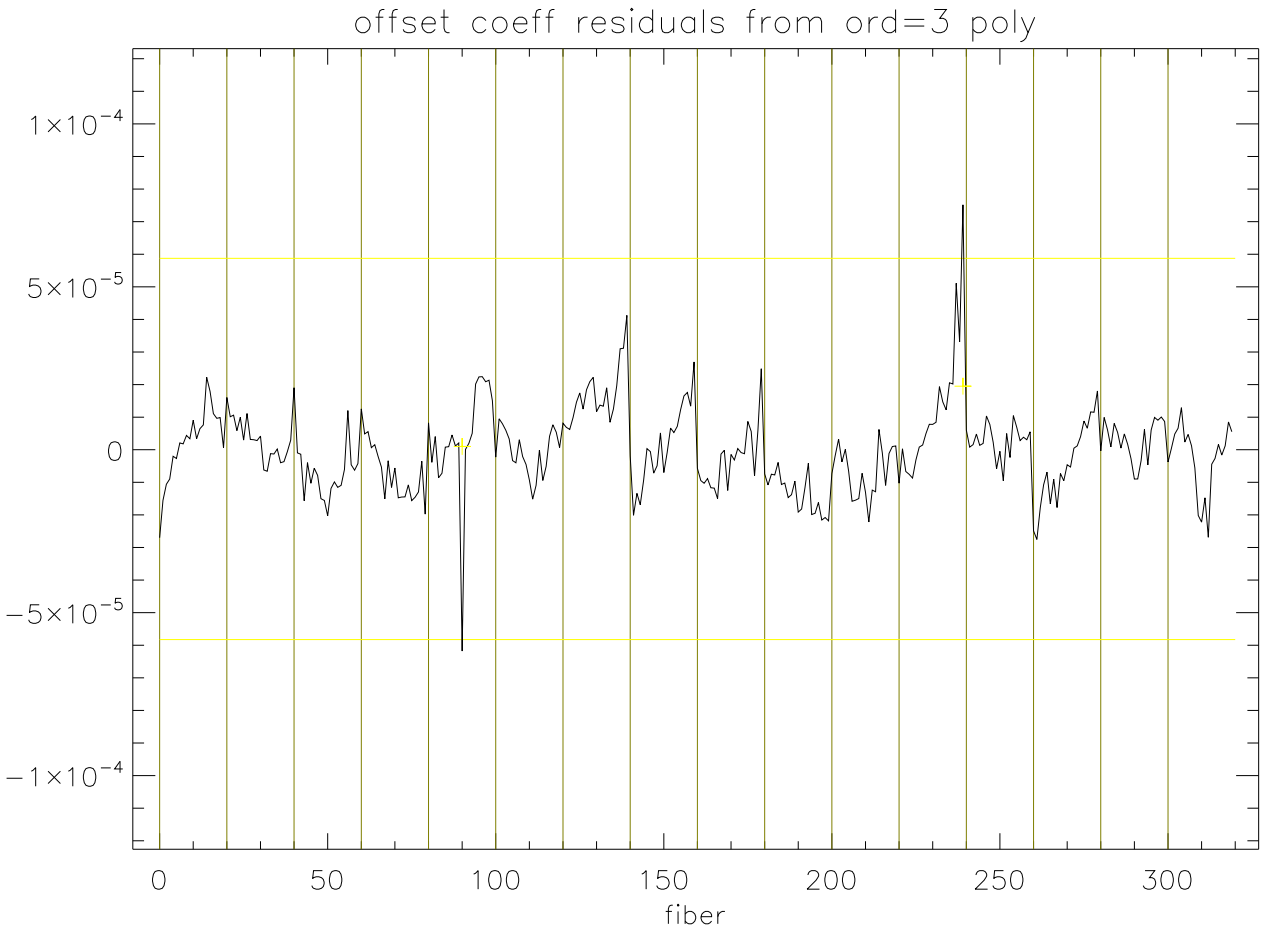

PLATE=2256 MJD=53859 sdR-b2-00039087.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

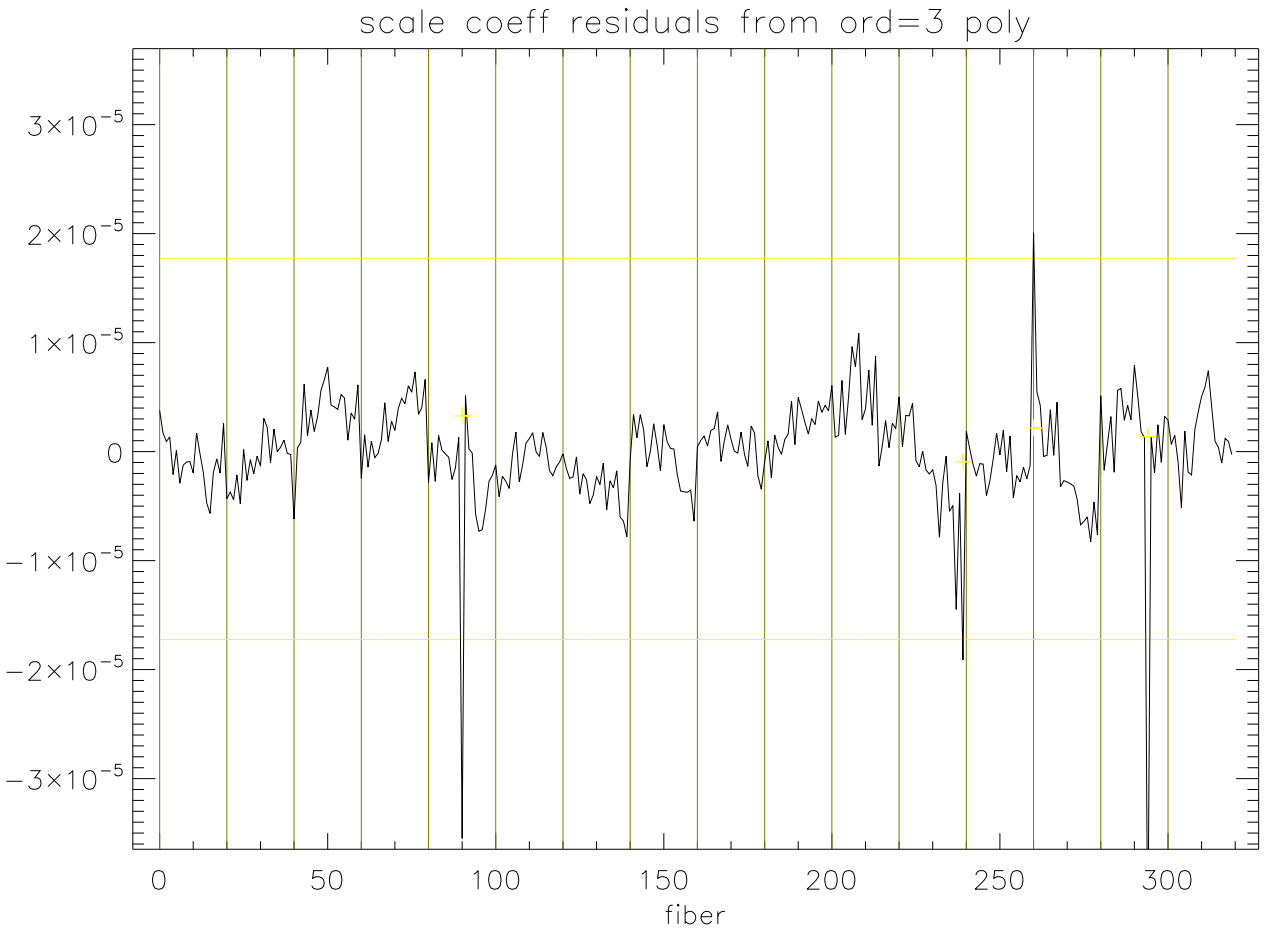

PLATE=2256 MJD=53859 sdR-b2-00039087.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
-150
5570
5575
5580
5585
5590
λ [A]

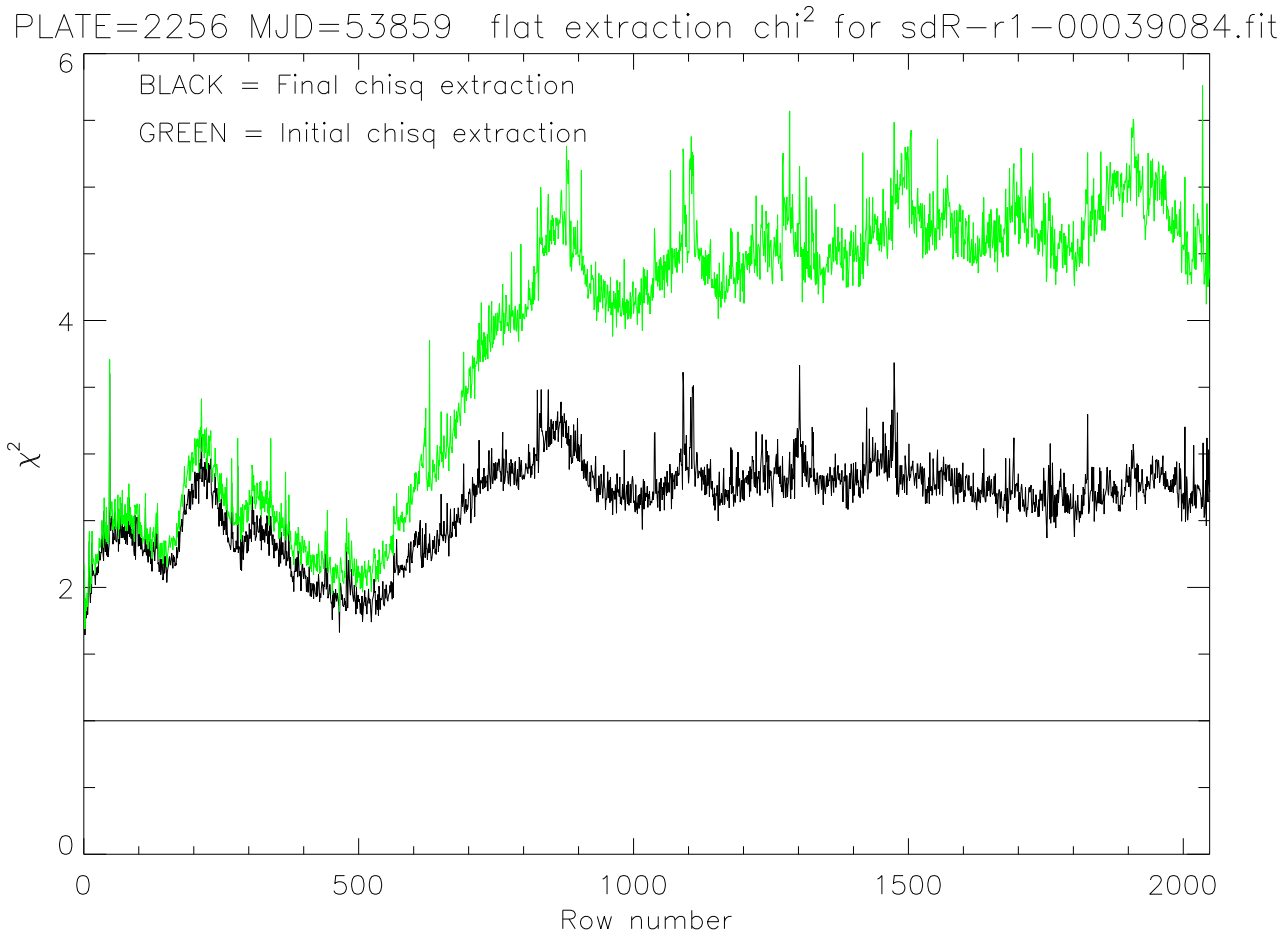

Number of sky fibers = 20
PLATE=2256 MJD=53859 sdR-b2-00039087.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

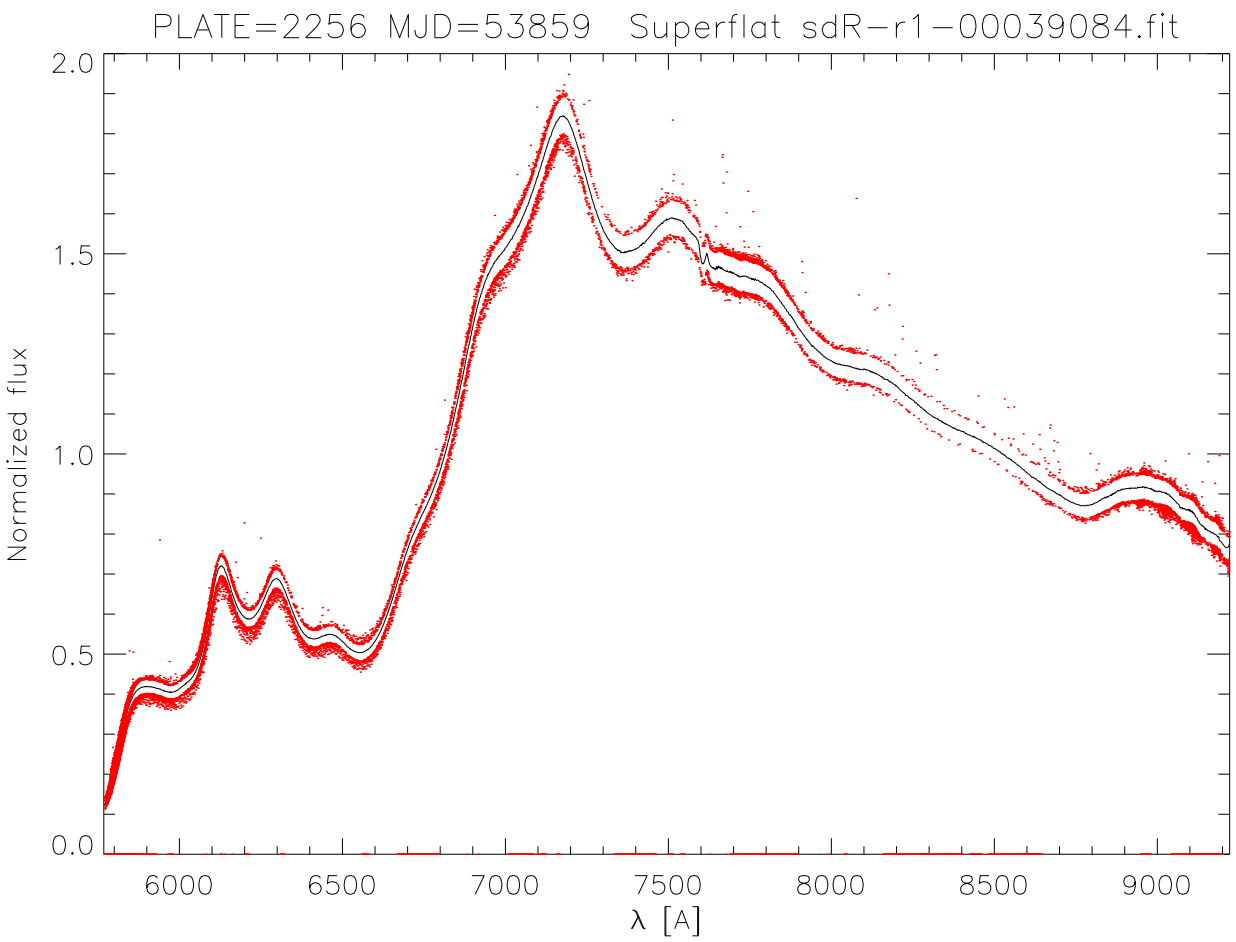

PLATE=2256 MJD=53859 sdR-b2-00039087.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 10.46 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

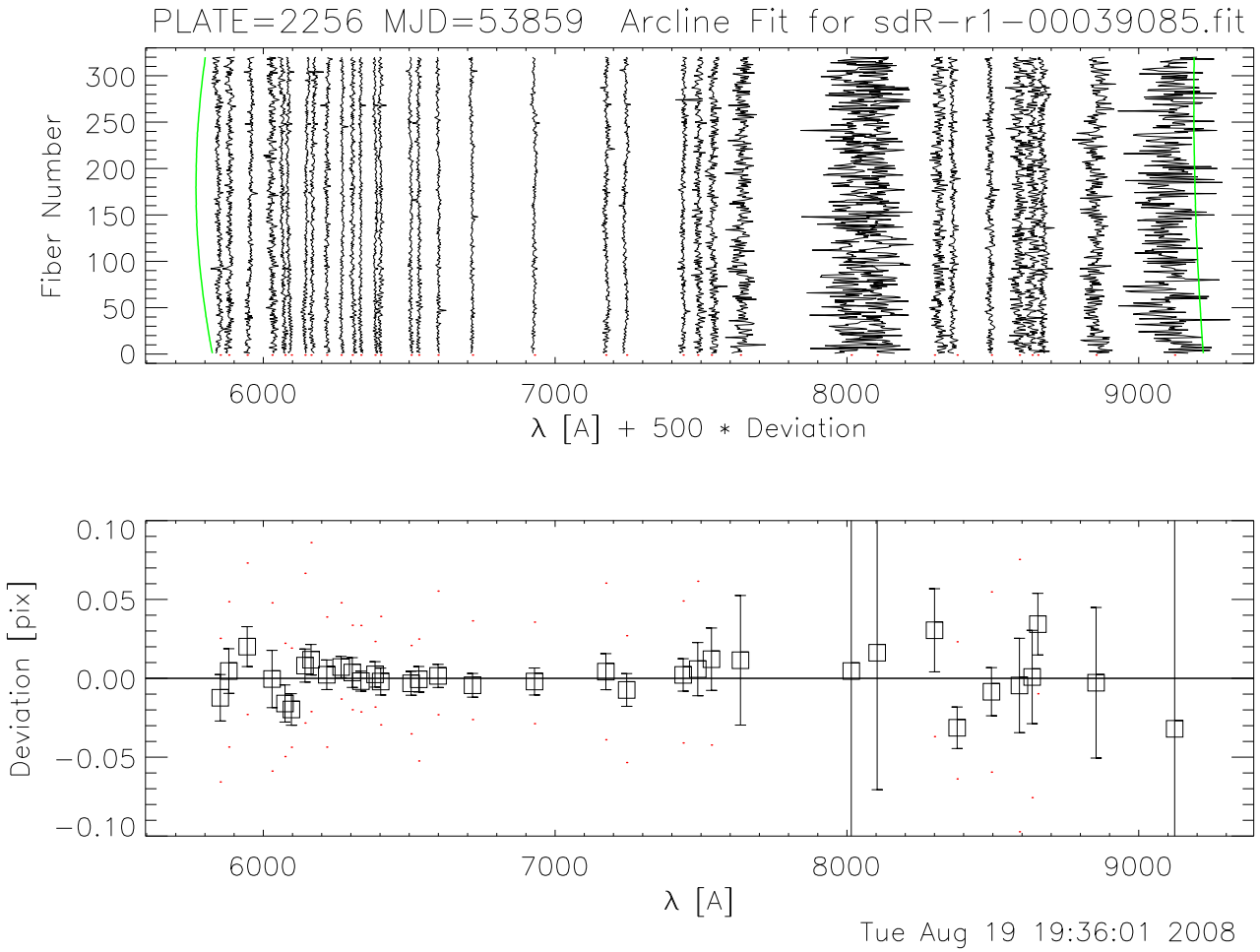

PLATE=2256 MJD=53859 sdR-b2-00039087.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.02 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

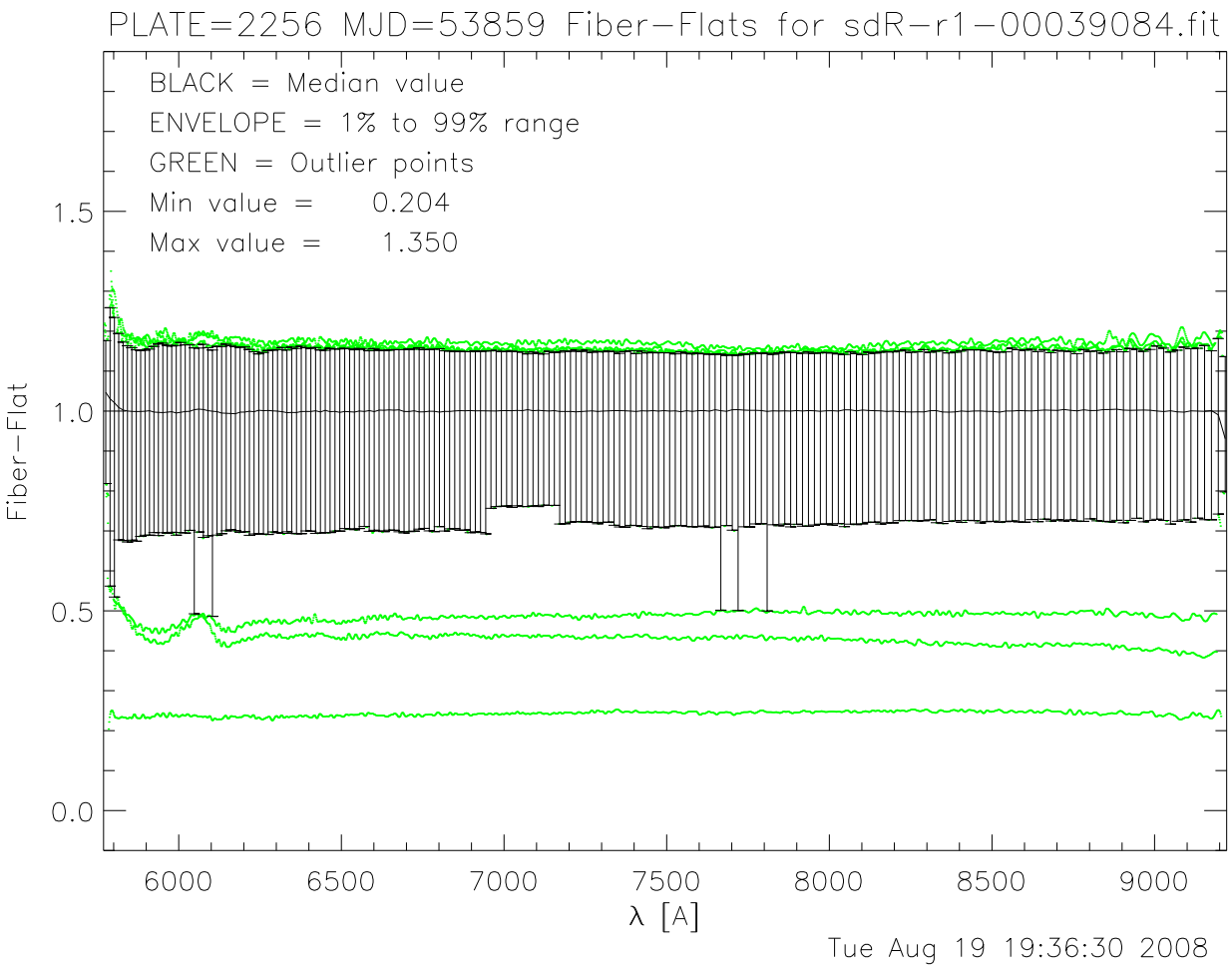

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

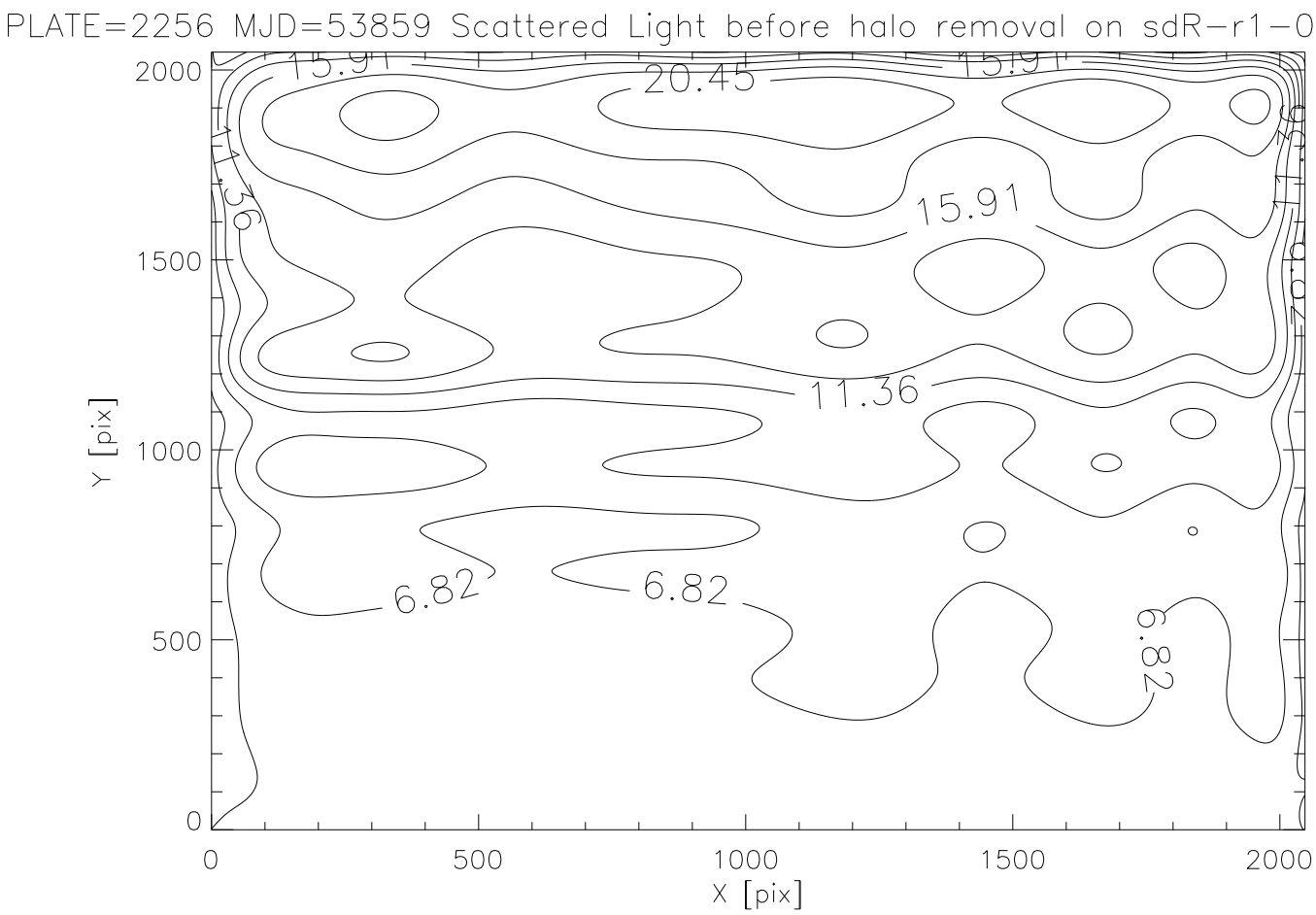

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

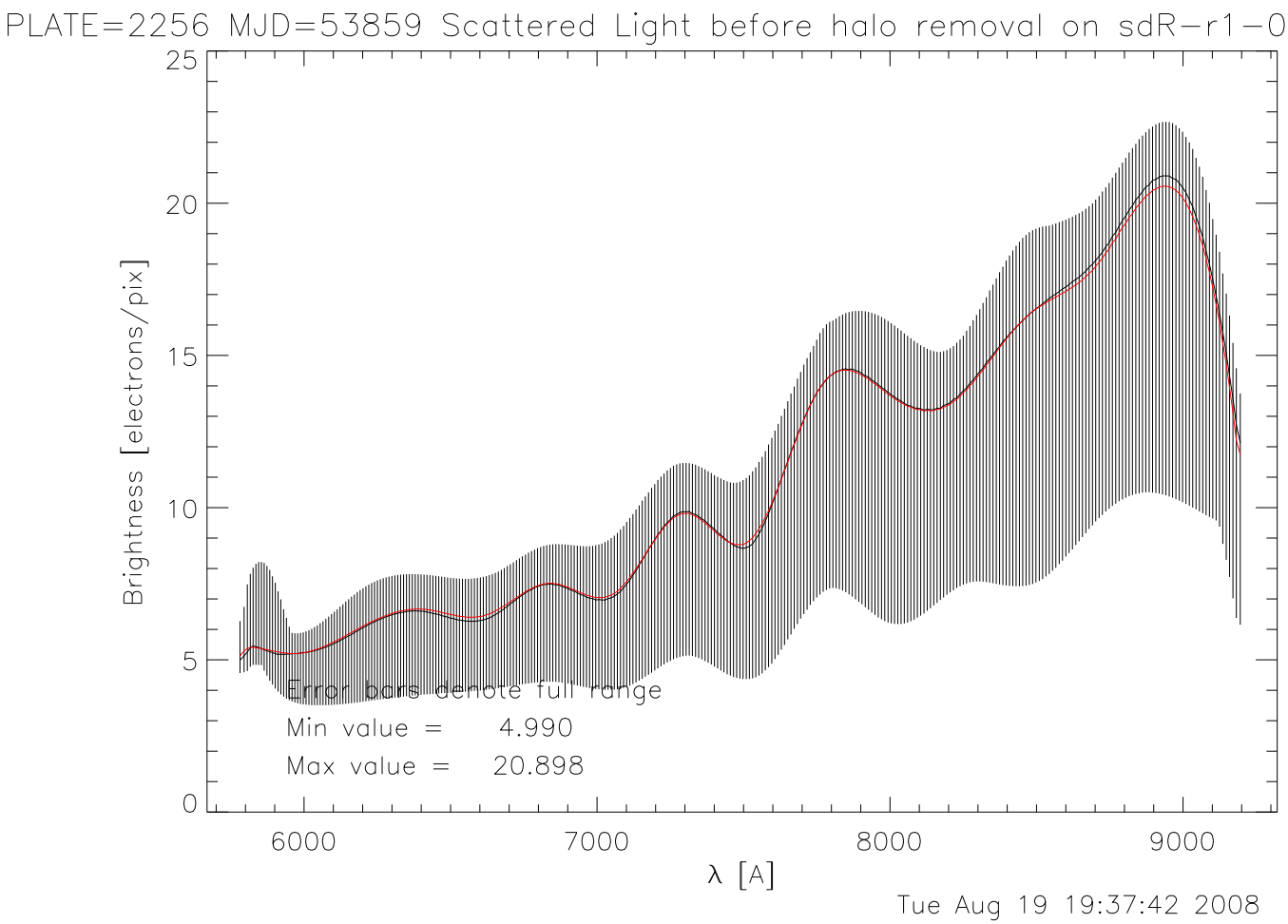

PLATE=2256 MJD=53859 flat extraction chi$^2$ for sdR−r1−00039084.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
$\chi^2$
0
2
4
6
0
500
1000
1500
2000
Row number

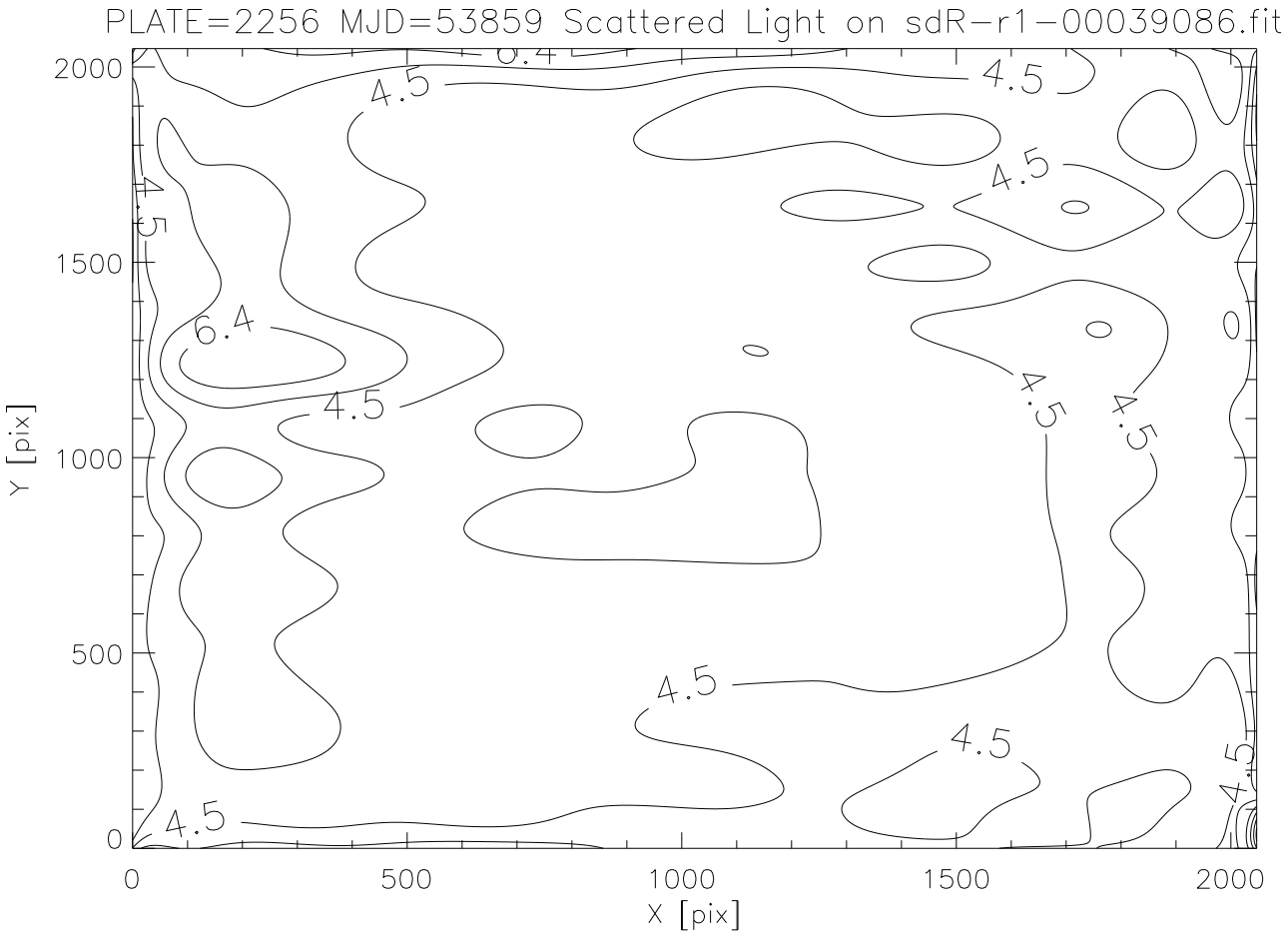

PLATE=2256 MJD=53859 Superflat sdR-r1-00039084.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

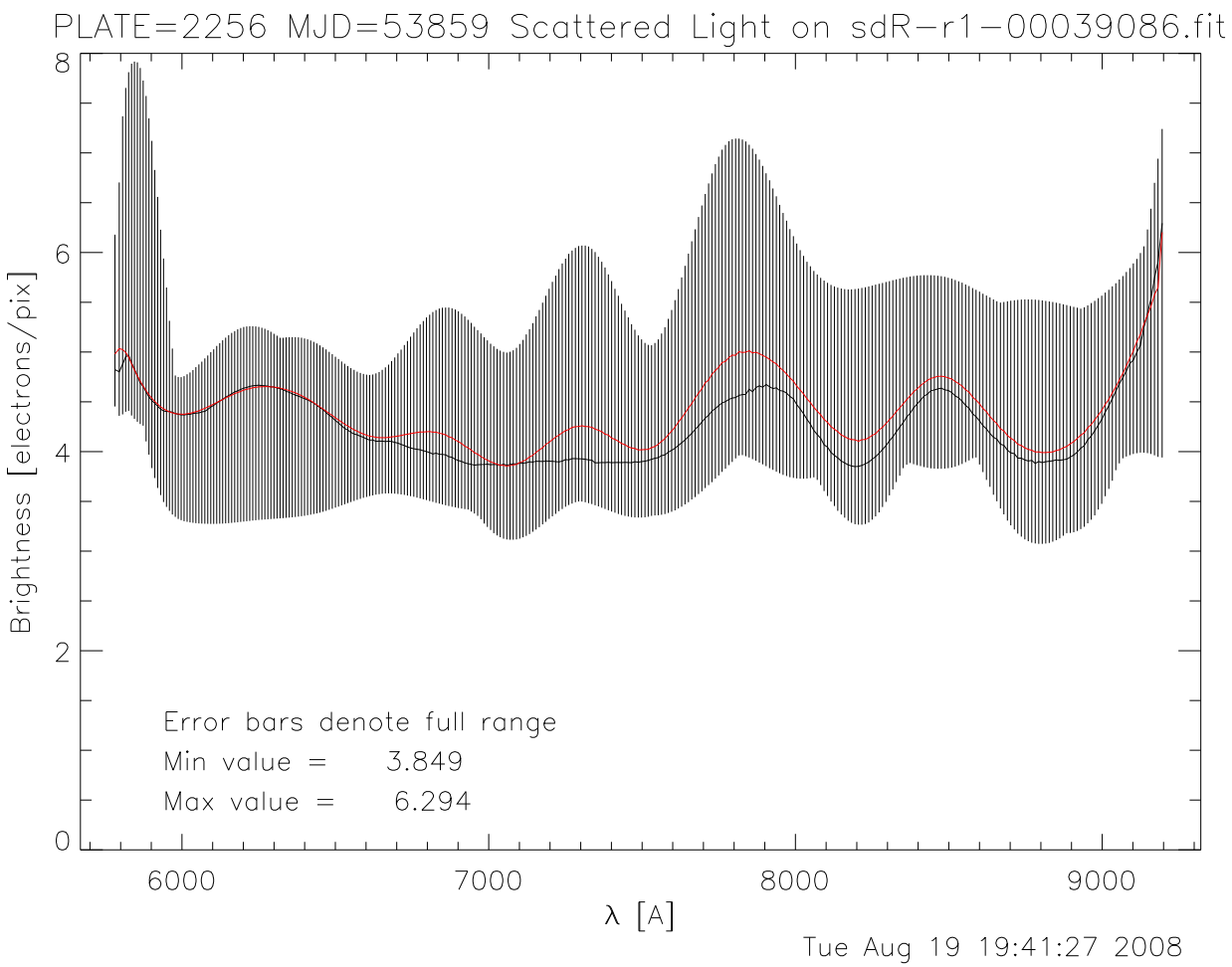

PLATE=2256 MJD=53859 Arcline Fit for sdR-r1-00039085.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Tue Aug 19 19:36:01 2008

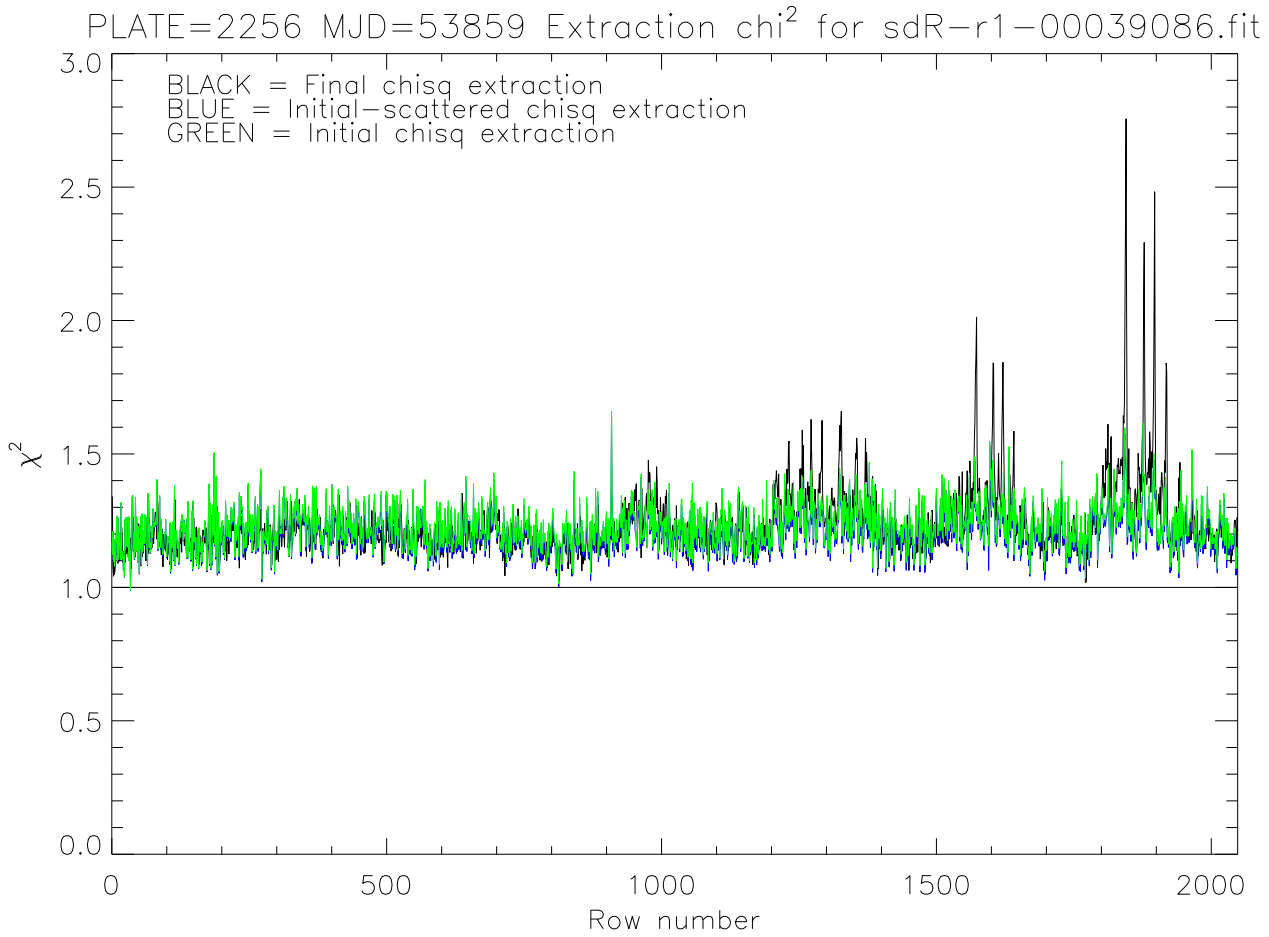

PLATE=2256 MJD=53859 Fiber−Flats for sdR−r1−00039084.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.204
Max value = 1.350
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Tue Aug 19 19:36:30 2008

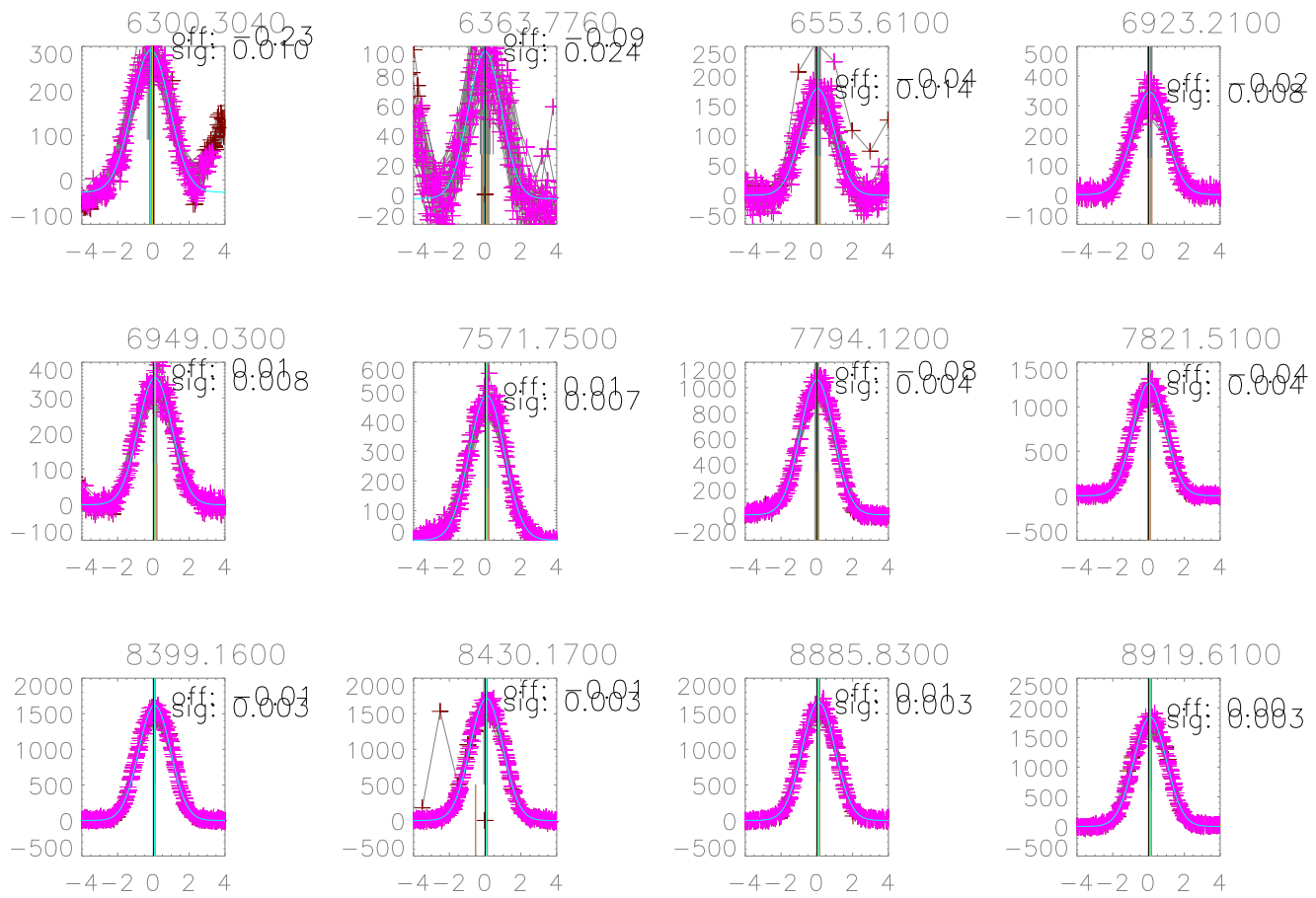

PLATE=2256 MJD=53859 Scattered Light before halo removal on sdR-r1-00039086.fi
15.91
20.45
15.91
11.36
15.91
11.36
6.82
6.82
6.82
Y [pix]
X [pix]
0
500
1000
1500
2000

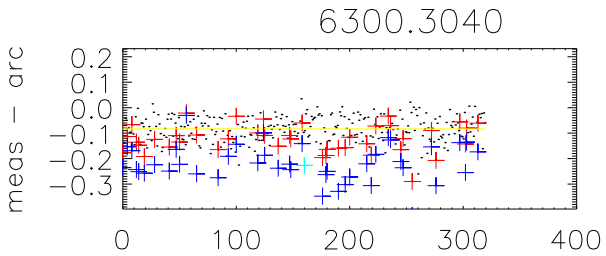

PLATE=2256 MJD=53859 Scattered Light before halo removal on sdR-r1-00039086.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.990
Max value = 20.898
Tue Aug 19 19:37:42 2008

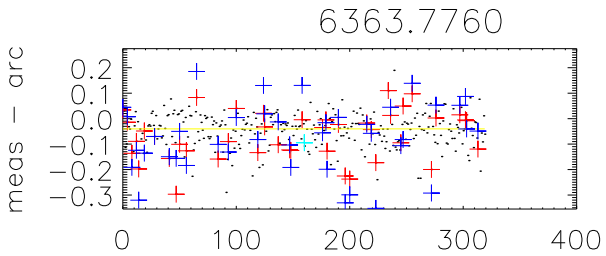

PLATE=2256 MJD=53859 Scattered Light on sdR-r1-00039086.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
6.4
4.5
0

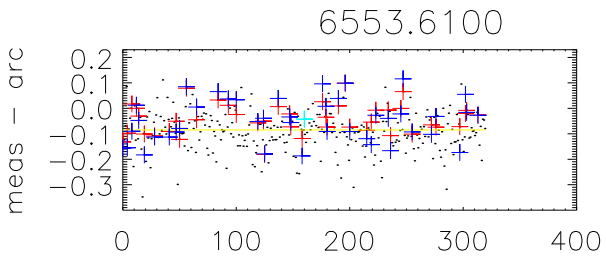

PLATE=2256 MJD=53859 Scattered Light on sdR-r1-00039086.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.849
Max value = 6.294
Tue Aug 19 19:41:27 2008

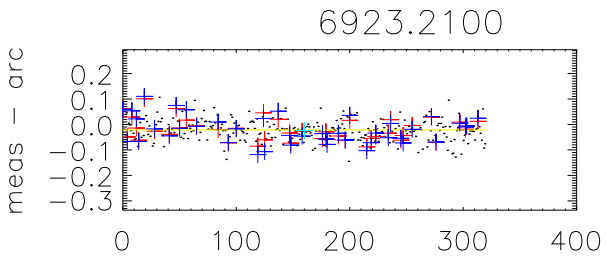

PLATE=2256 MJD=53859 Extraction chi$^2$ for sdR−r1−00039086.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
$\chi^2$
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

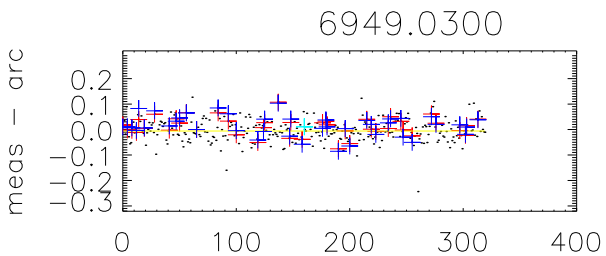

6300.3040
off: −0.23
sig: 0.010
6363.7760
off: −0.09
sig: 0.024
6553.6100
off: −0.04
sig: 0.014
6923.2100
off: −0.02
sig: 0.008
6949.0300
off: 0.01
sig: 0.008
7571.7500
off: 0.01
sig: 0.007
7794.1200
off: −0.08
sig: 0.004
7821.5100
off: −0.04
sig: 0.004
8399.1600
off: −0.01
sig: 0.003
8430.1700
off: −0.01
sig: 0.003
8885.8300
off: 0.01
sig: 0.003
8919.6100
off: 0.00
sig: 0.003

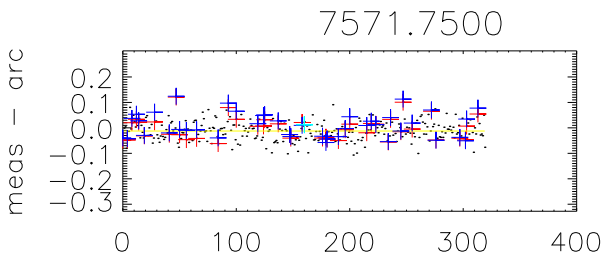

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

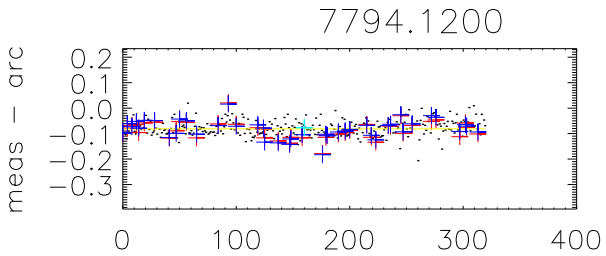

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

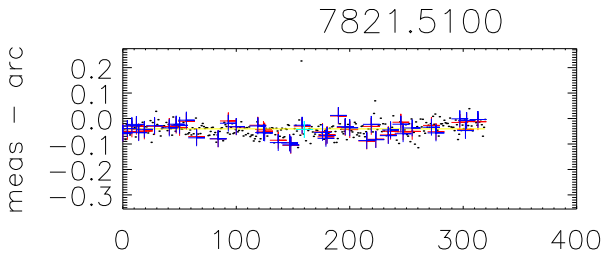

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

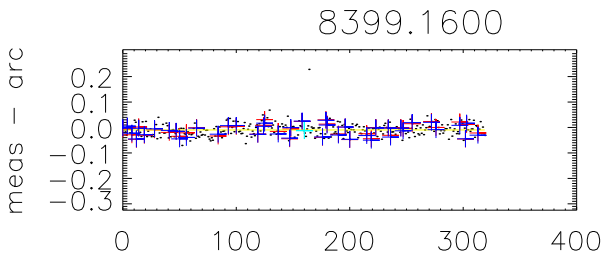

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

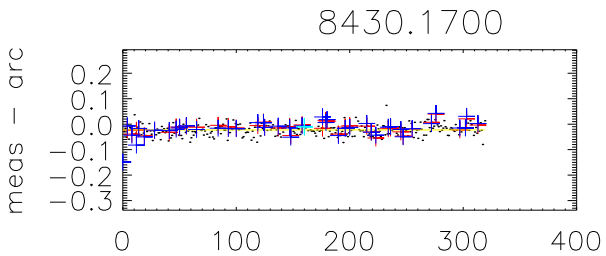

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

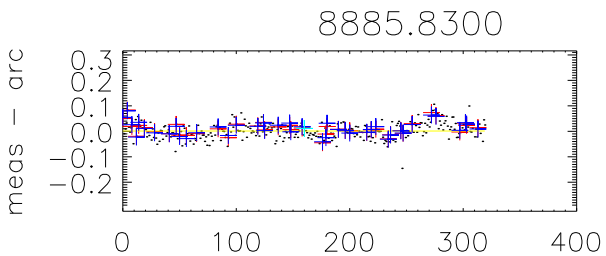

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

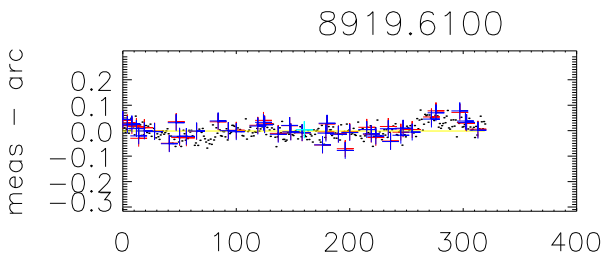

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

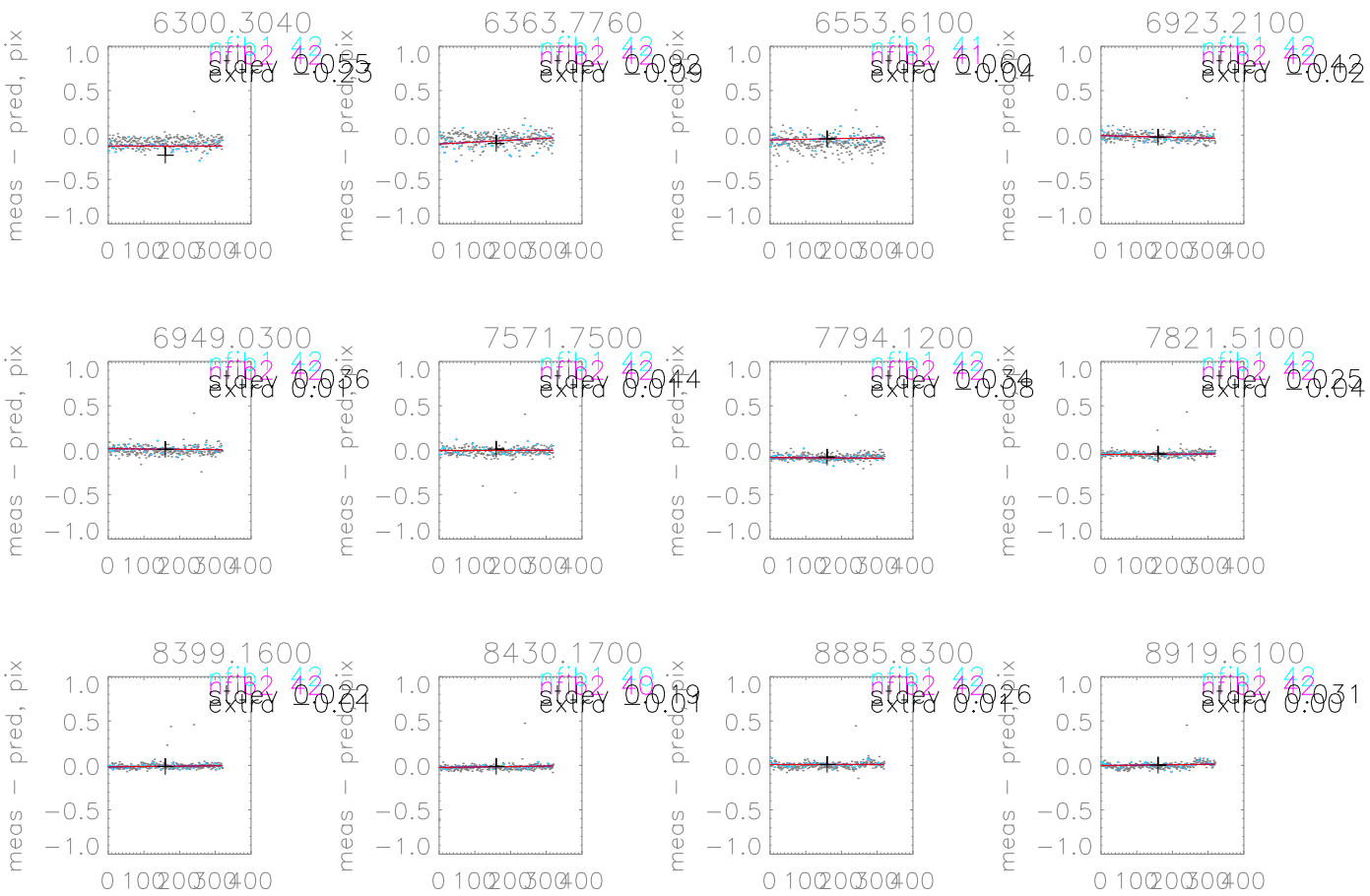

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

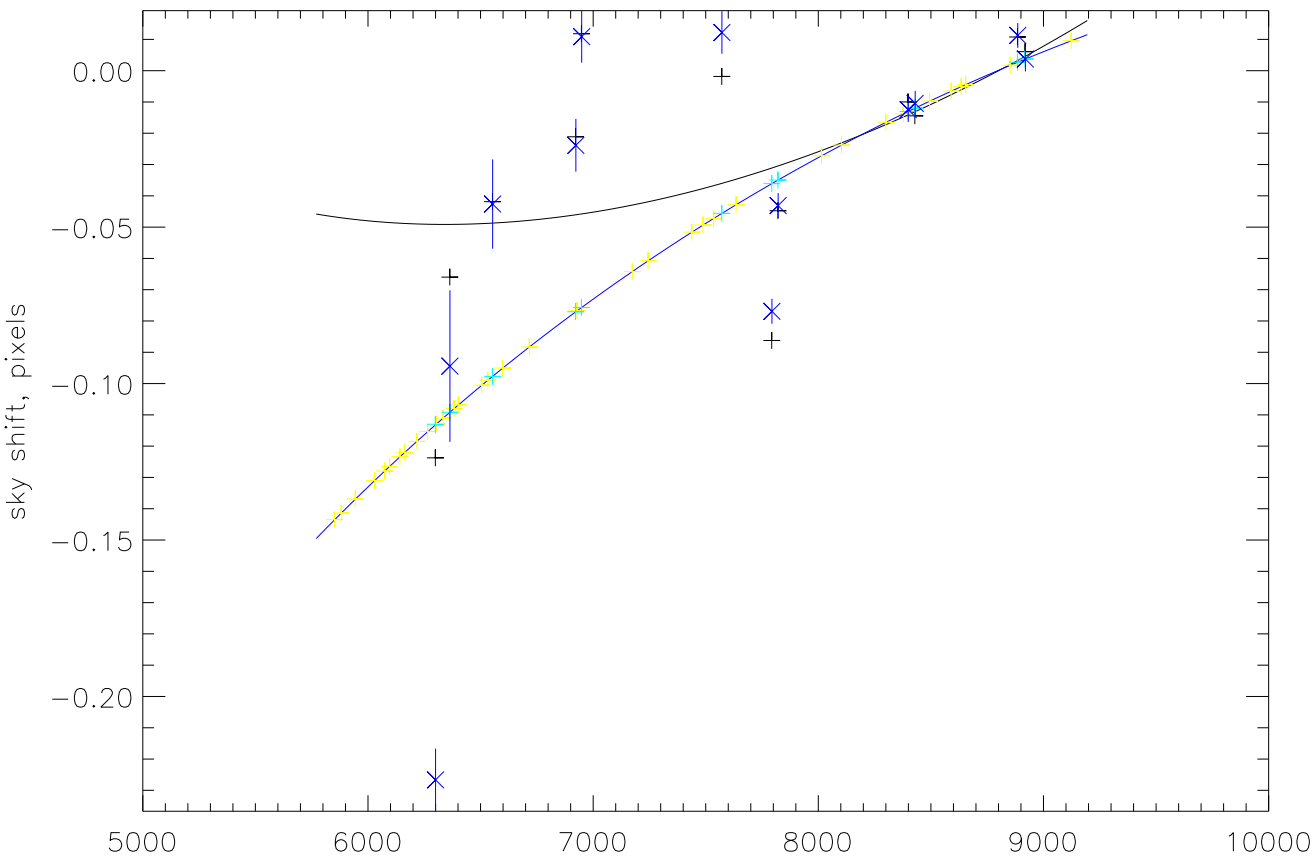

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

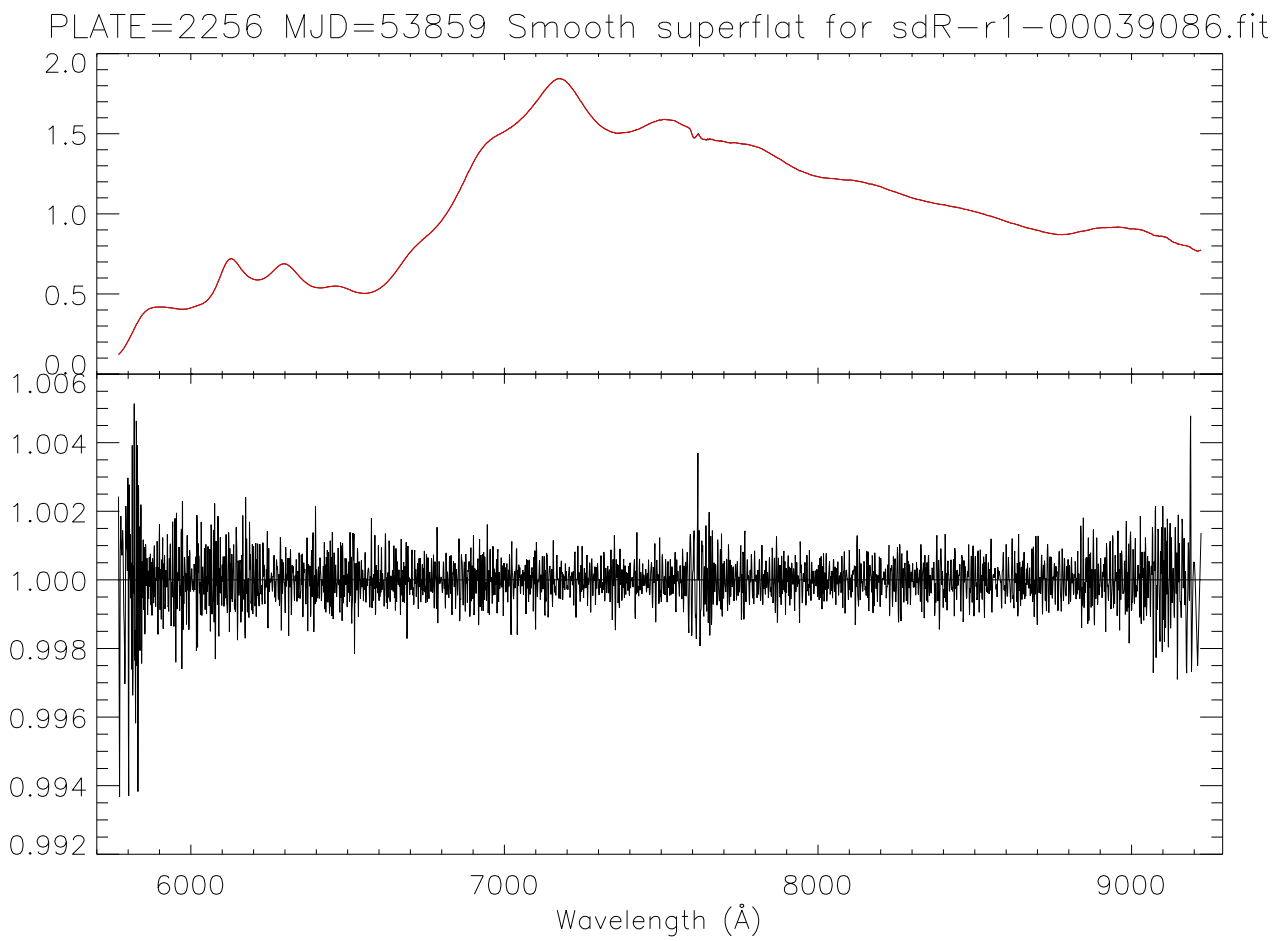

8885.8300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

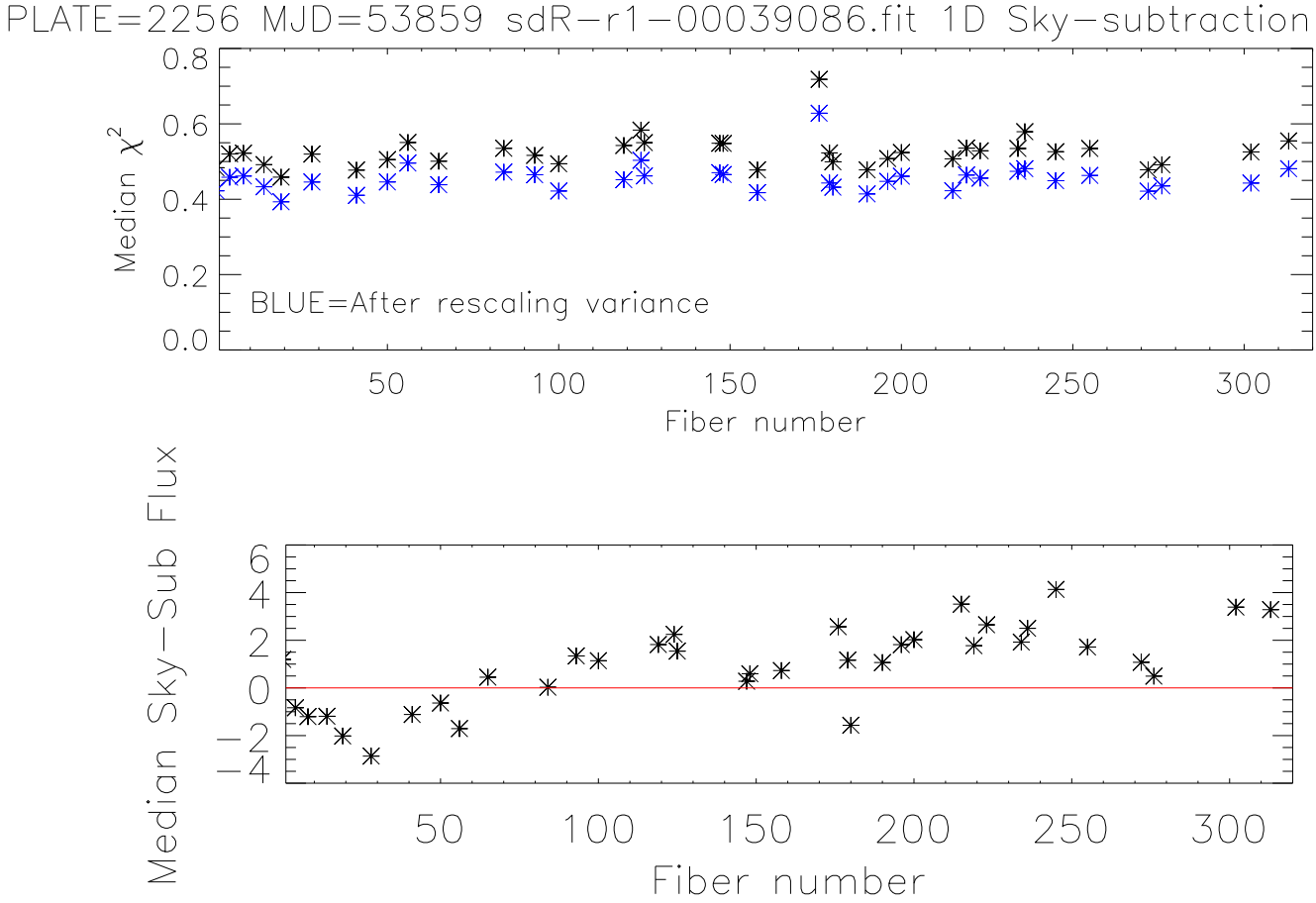

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


6300.3040
mfib1 42
mfib2 42
stdev 0.055
extra −0.23
6363.7760
mfib1 42
mfib2 42
stdev 0.092
extra −0.09
6553.6100
mfib1 41
mfib2 42
stdev 0.060
extra −0.04
6923.2100
mfib1 42
mfib2 42
stdev 0.042
extra −0.02
6949.0300
mfib1 42
mfib2 42
stdev 0.036
extra 0.01
7571.7500
mfib1 42
mfib2 42
stdev 0.044
extra 0.01
7794.1200
mfib1 42
mfib2 42
stdev 0.034
extra −0.08
7821.5100
mfib1 42
mfib2 42
stdev 0.025
extra −0.04
8399.1600
mfib1 42
mfib2 42
stdev 0.022
extra −0.04
8430.1700
mfib1 40
mfib2 40
stdev 0.019
extra −0.01
8885.8300
mfib1 42
mfib2 42
stdev 0.026
extra 0.01
8919.6100
mfib1 42
mfib2 42
stdev 0.031
extra 0.00
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

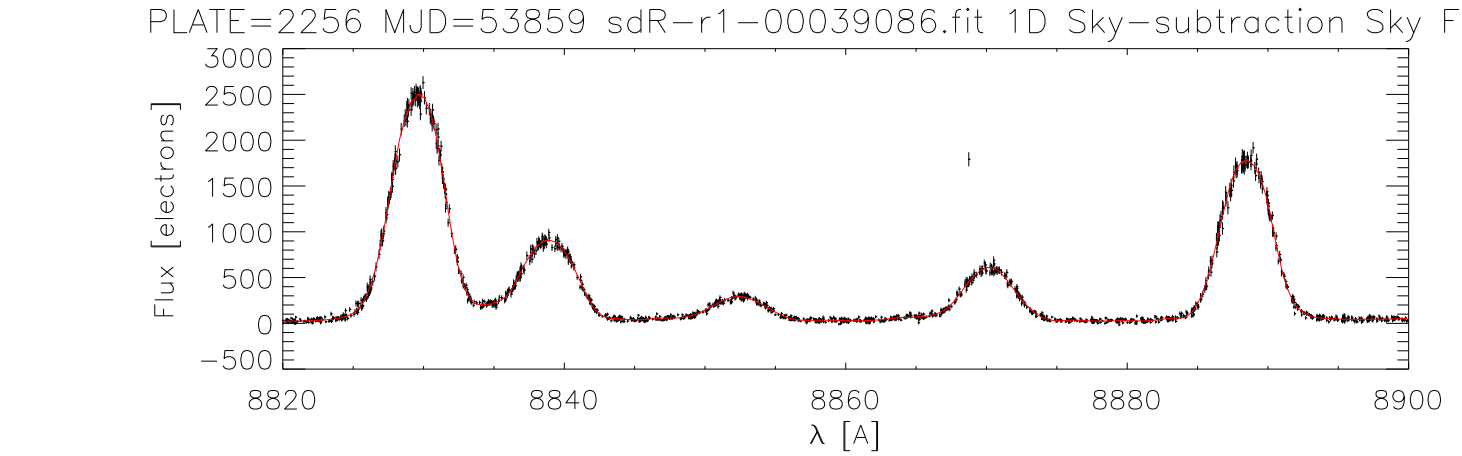

0.00
−0.05
−0.10
−0.15
−0.20
sky shift, pixels
5000
6000
7000
8000
9000
10000

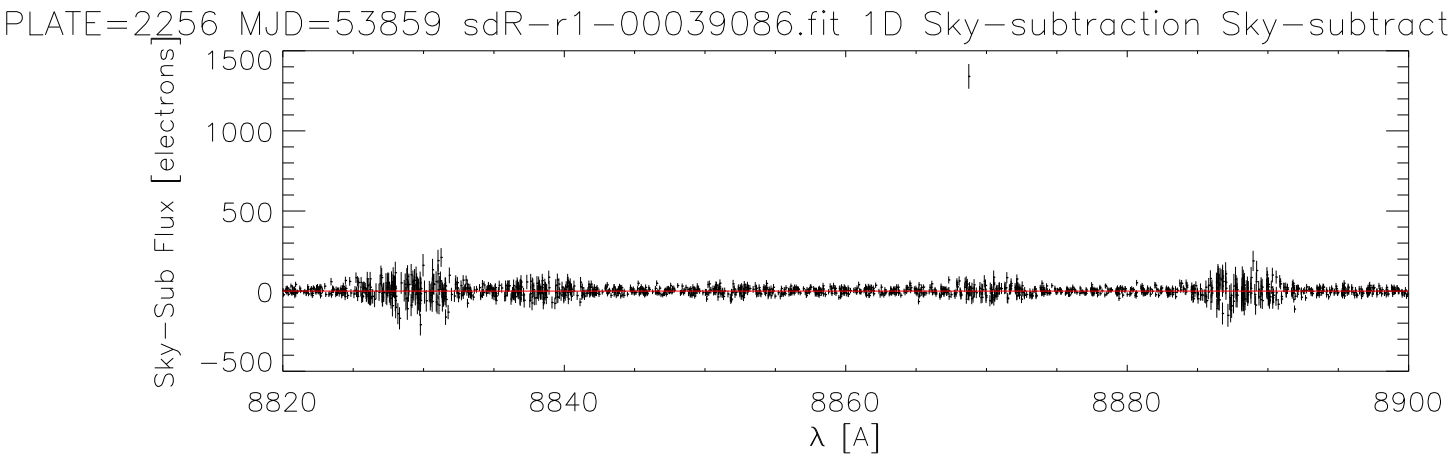
es= 0.0000

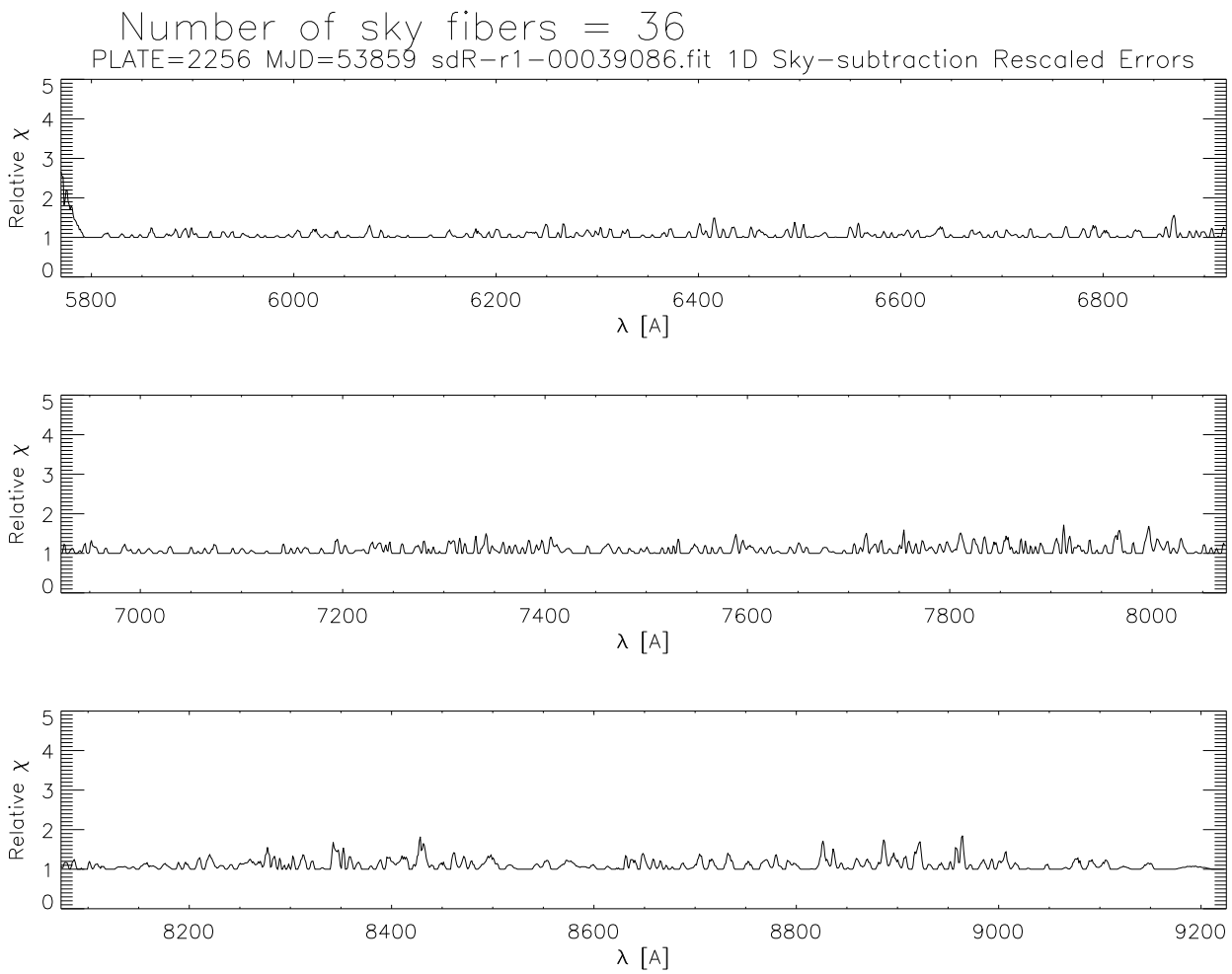

PLATE=2256 MJD=53859 Smooth superflat for sdR-r1-00039086.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
6000
7000
8000
9000
Wavelength (Å)

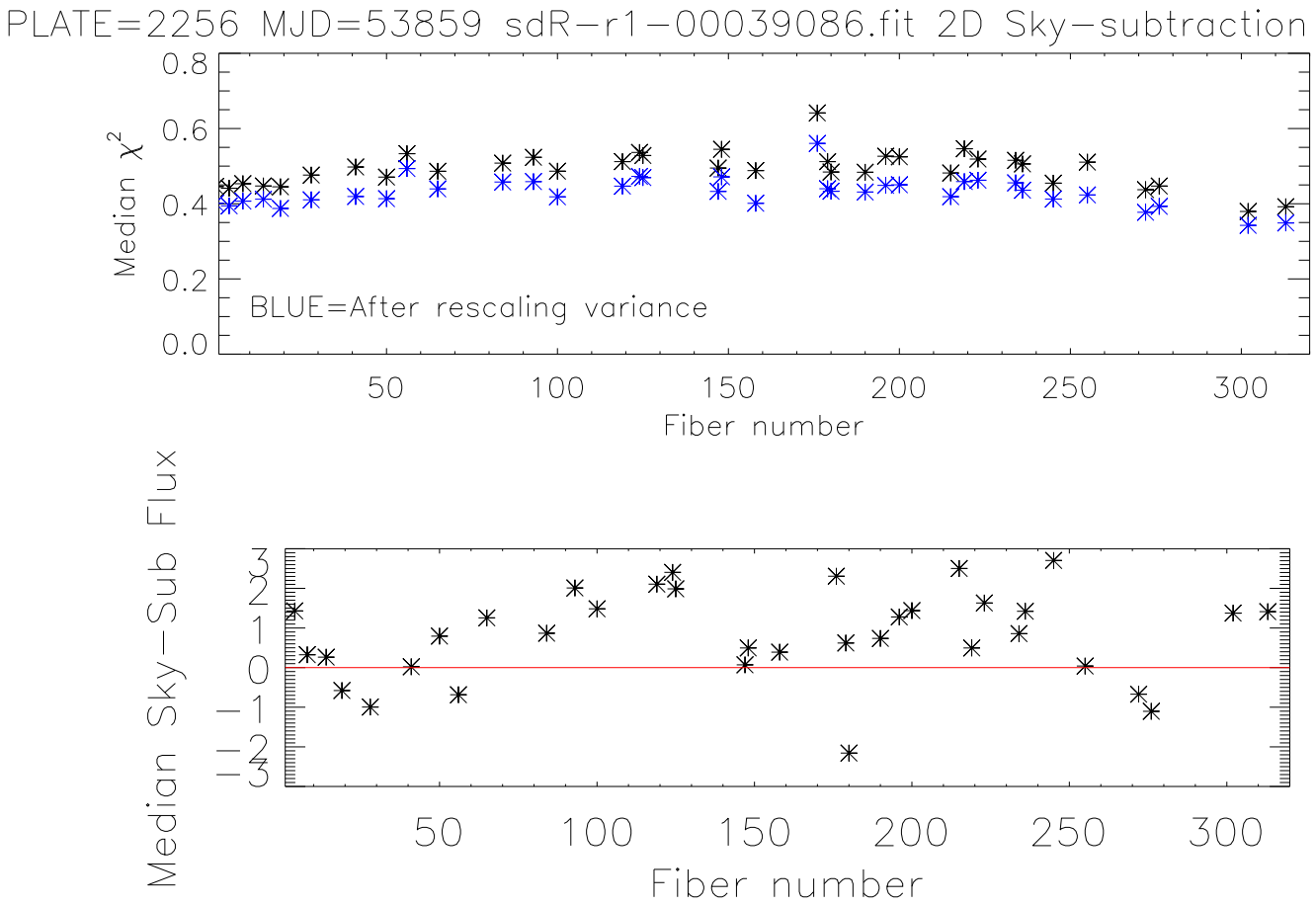

PLATE=2256 MJD=53859 sdR-r1-00039086.fit 1D Sky-subtraction Sky Fibers
Median $\chi^2$
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

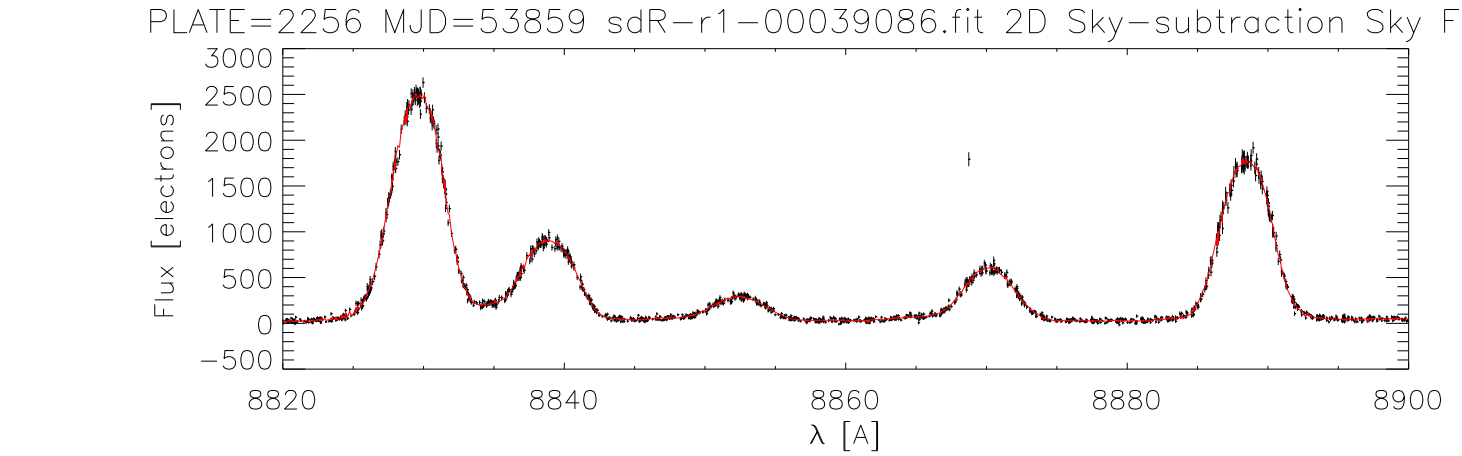

Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

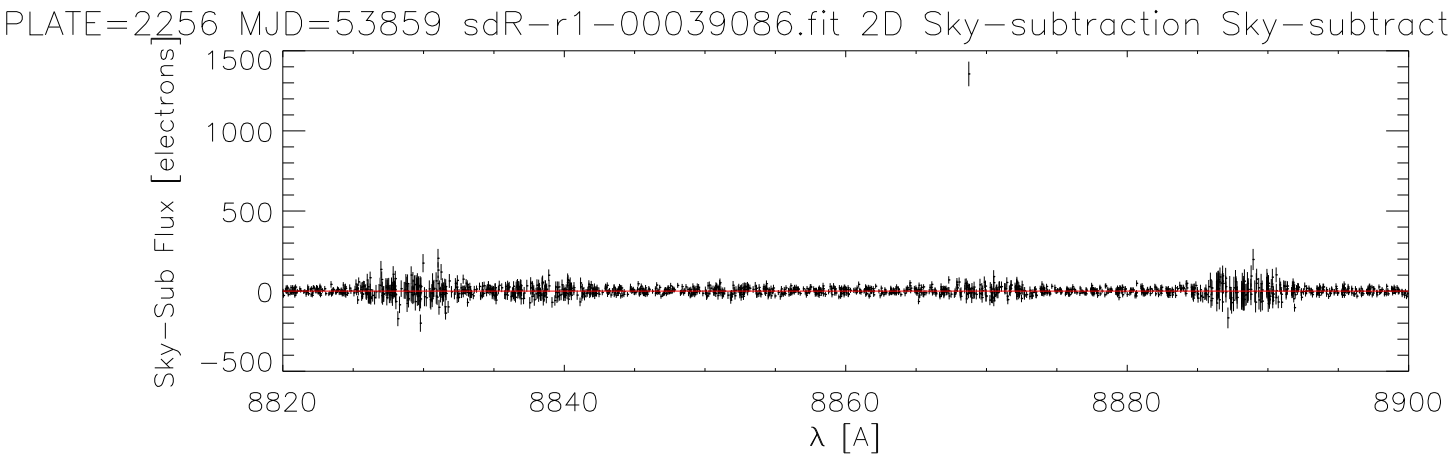

PLATE=2256 MJD=53859 sdR-r1-00039086.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
−500
8820
8840
8860
8880
8900
λ [A]

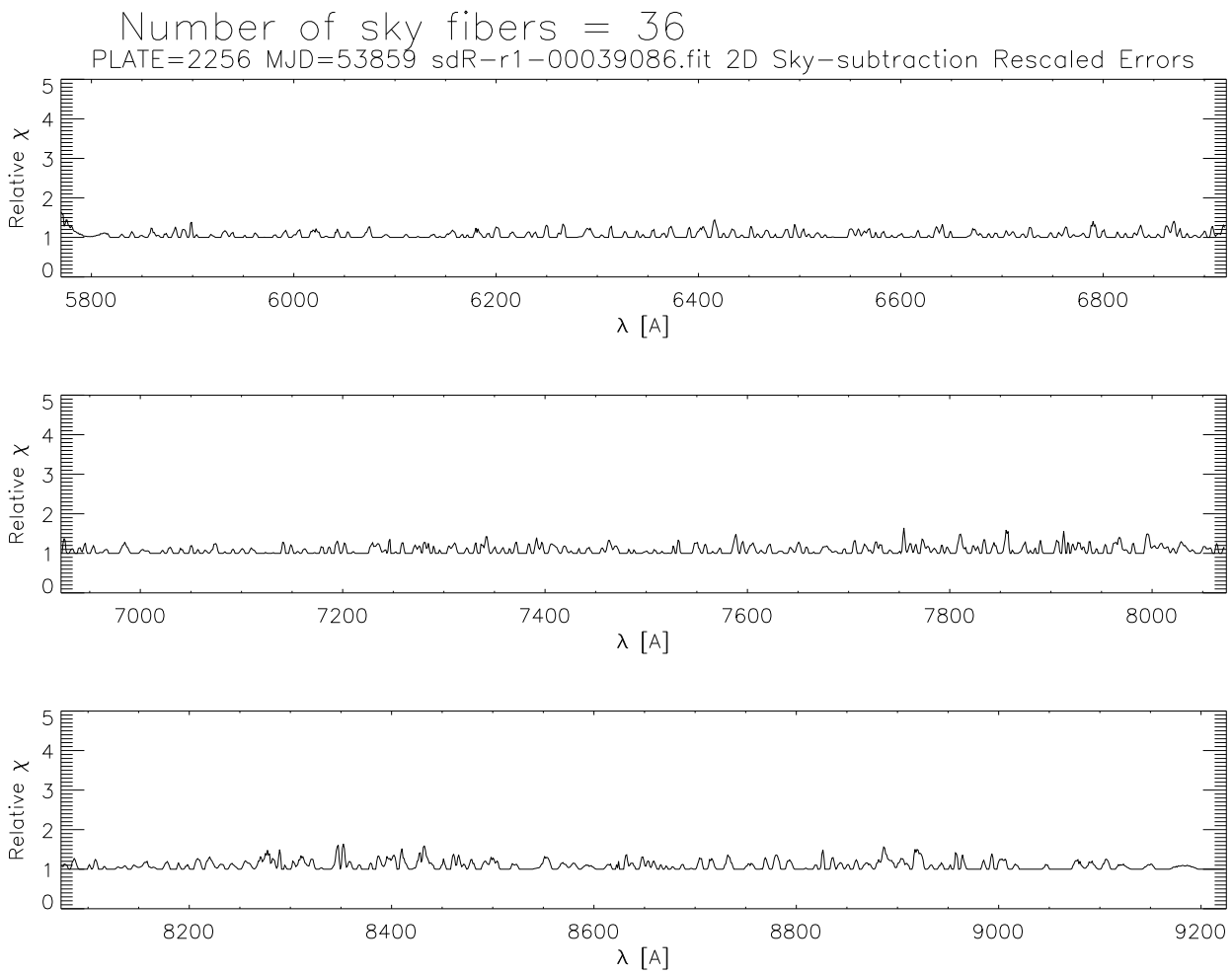

PLATE=2256 MJD=53859 sdR-r1-00039086.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
−500
8820
8840
8860
8880
8900
λ [A]

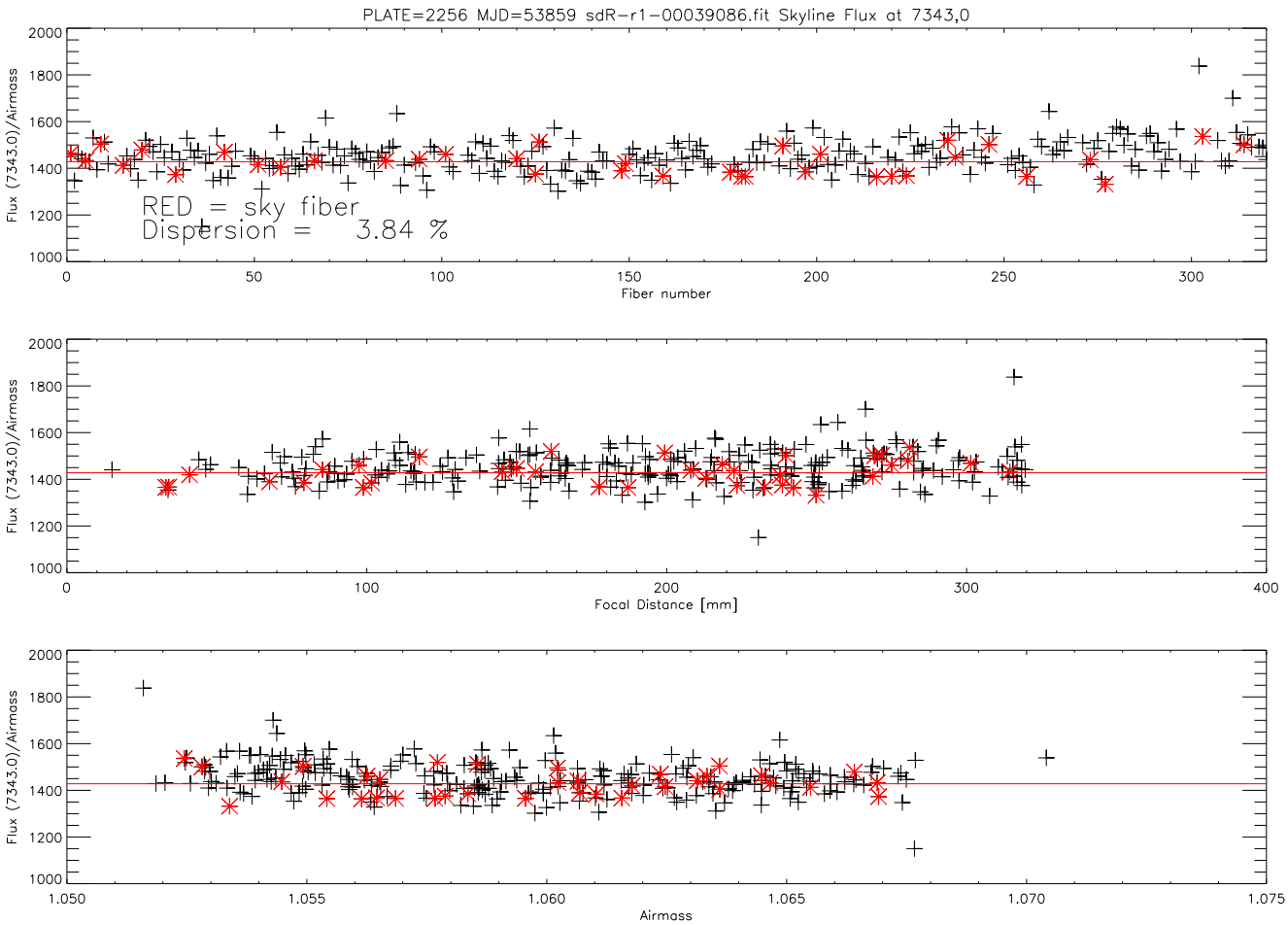

Number of sky fibers = 36
PLATE=2256 MJD=53859 sdR-r1-00039086.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

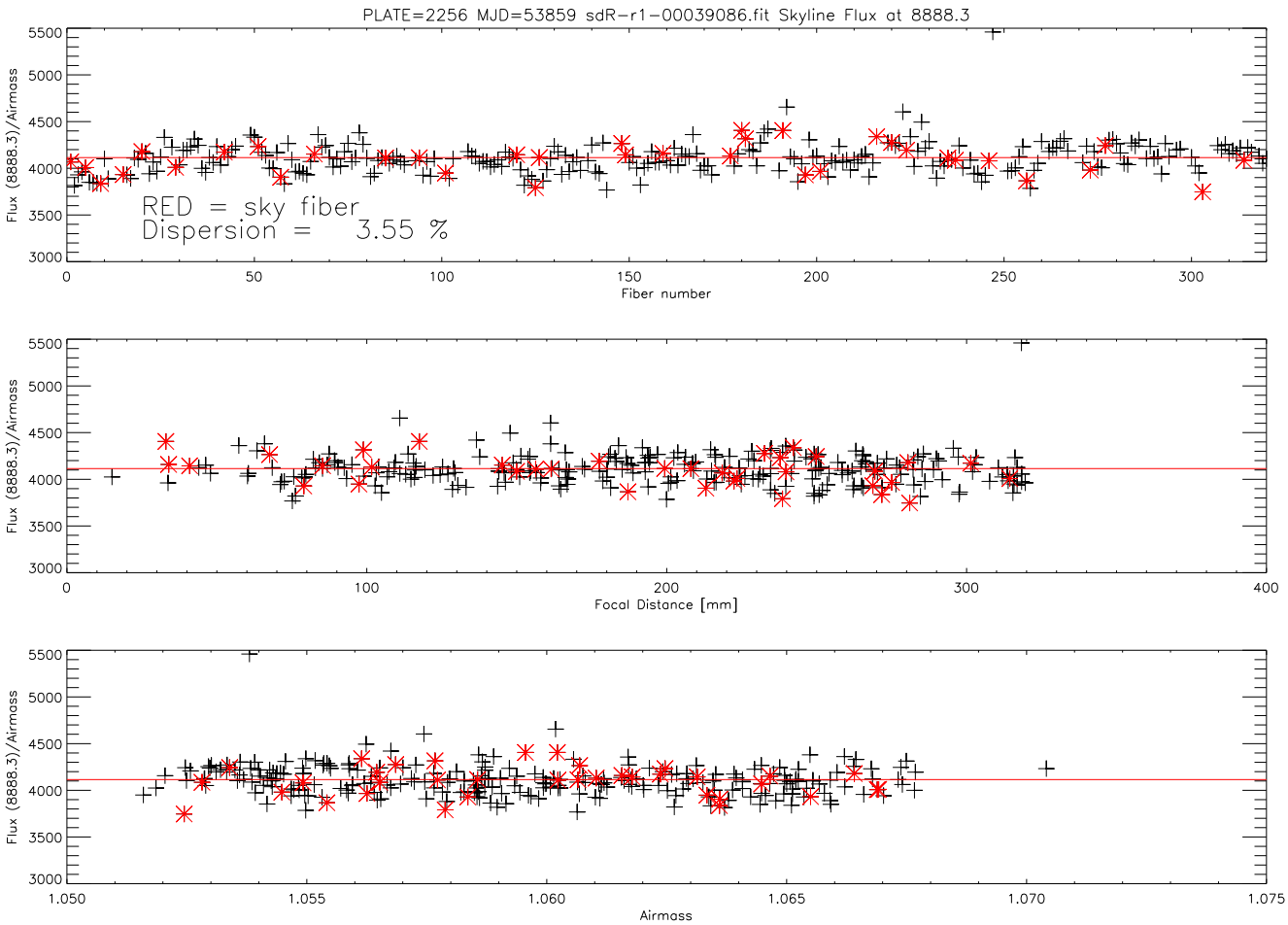

PLATE=2256 MJD=53859 sdR-r1-00039086.fit 2D Sky-subtraction Sky Fibers
Median $\chi^2$
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-3
-2
-1
0
1
2
3
50
100
150
200
250
300
Fiber number

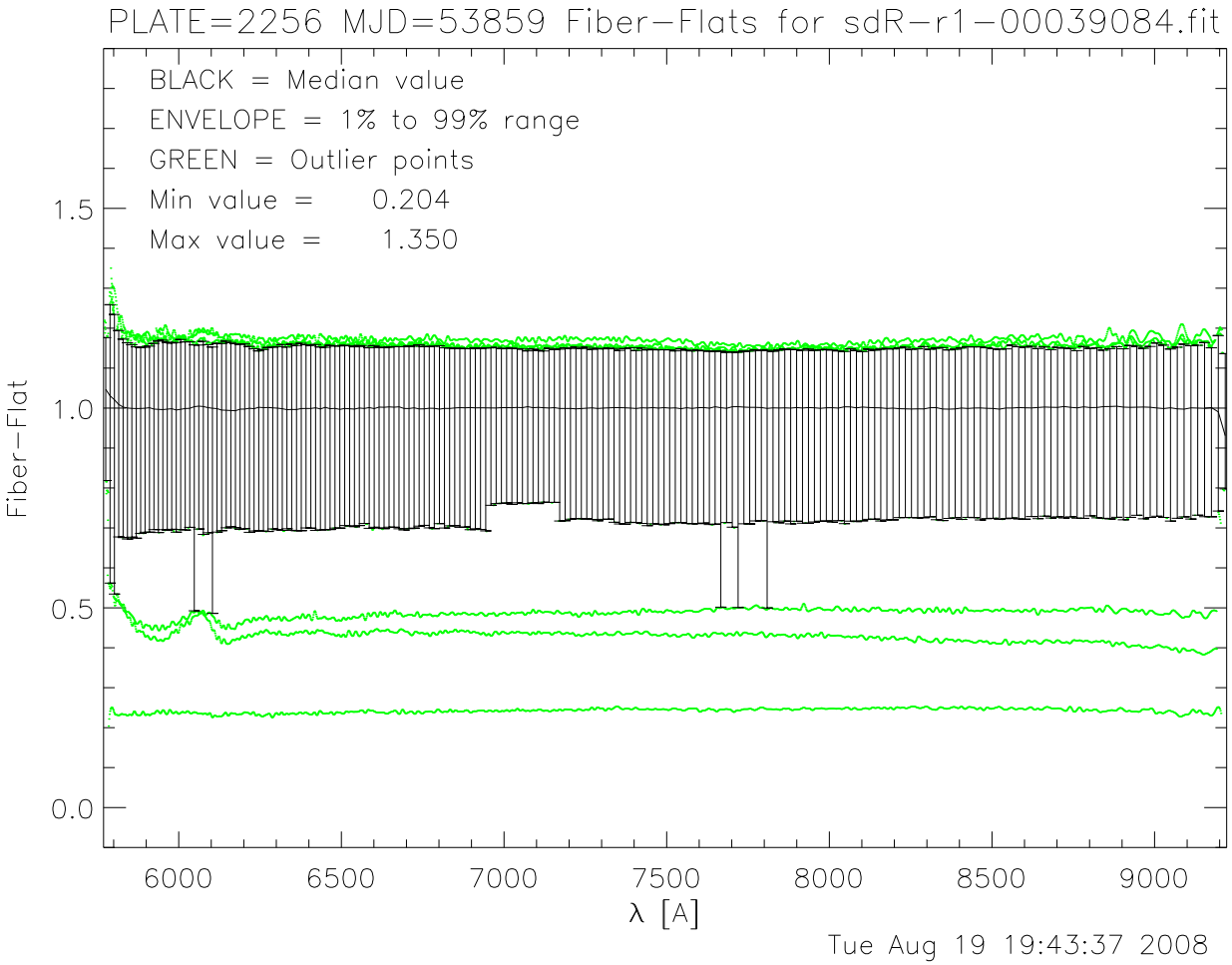

PLATE=2256 MJD=53859 sdR-r1-00039086.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
−500
8820
8840
8860
8880
8900
λ [A]

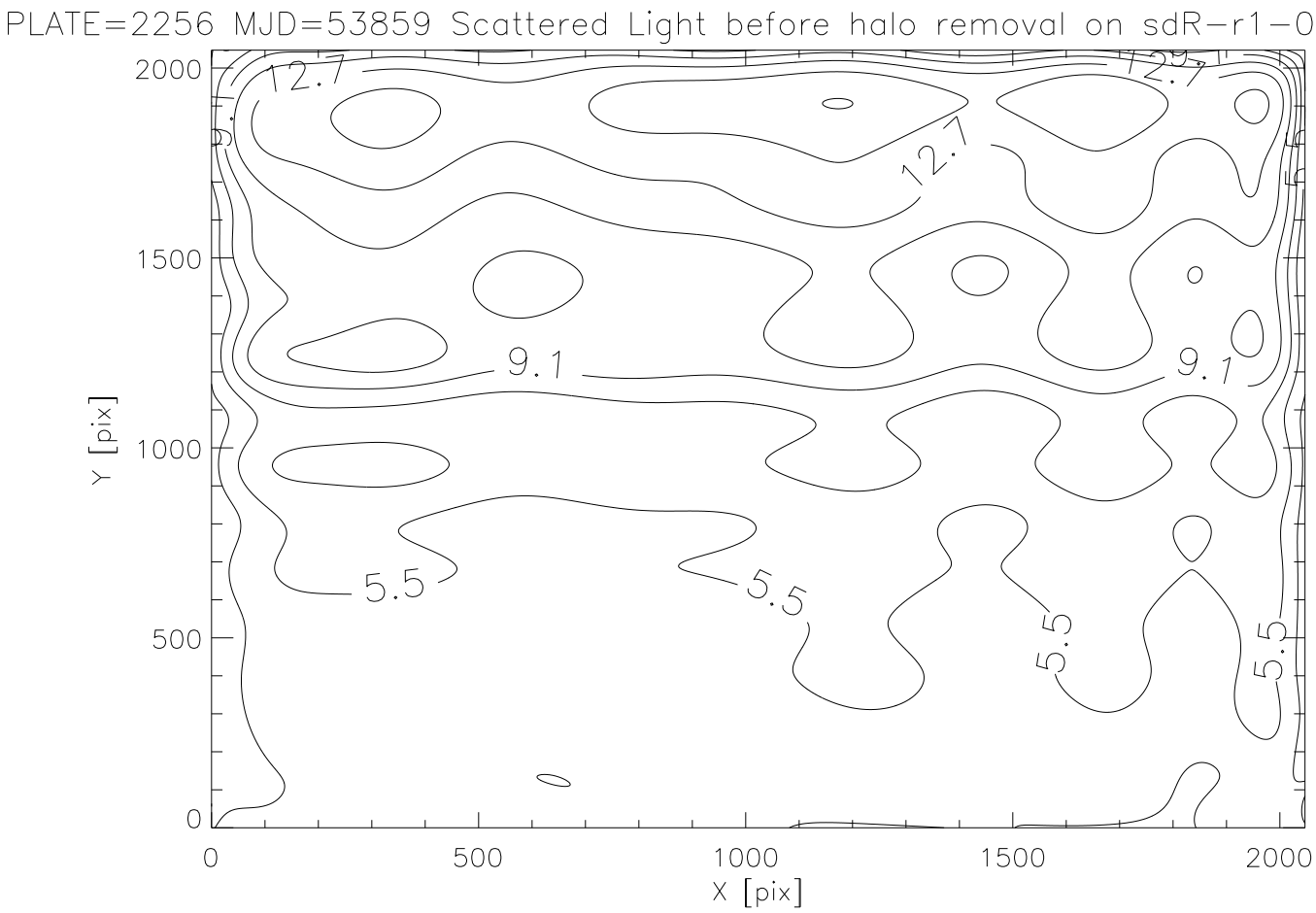

PLATE=2256 MJD=53859 sdR-r1-00039086.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
−500
8820
8840
8860
8880
8900
λ [A]

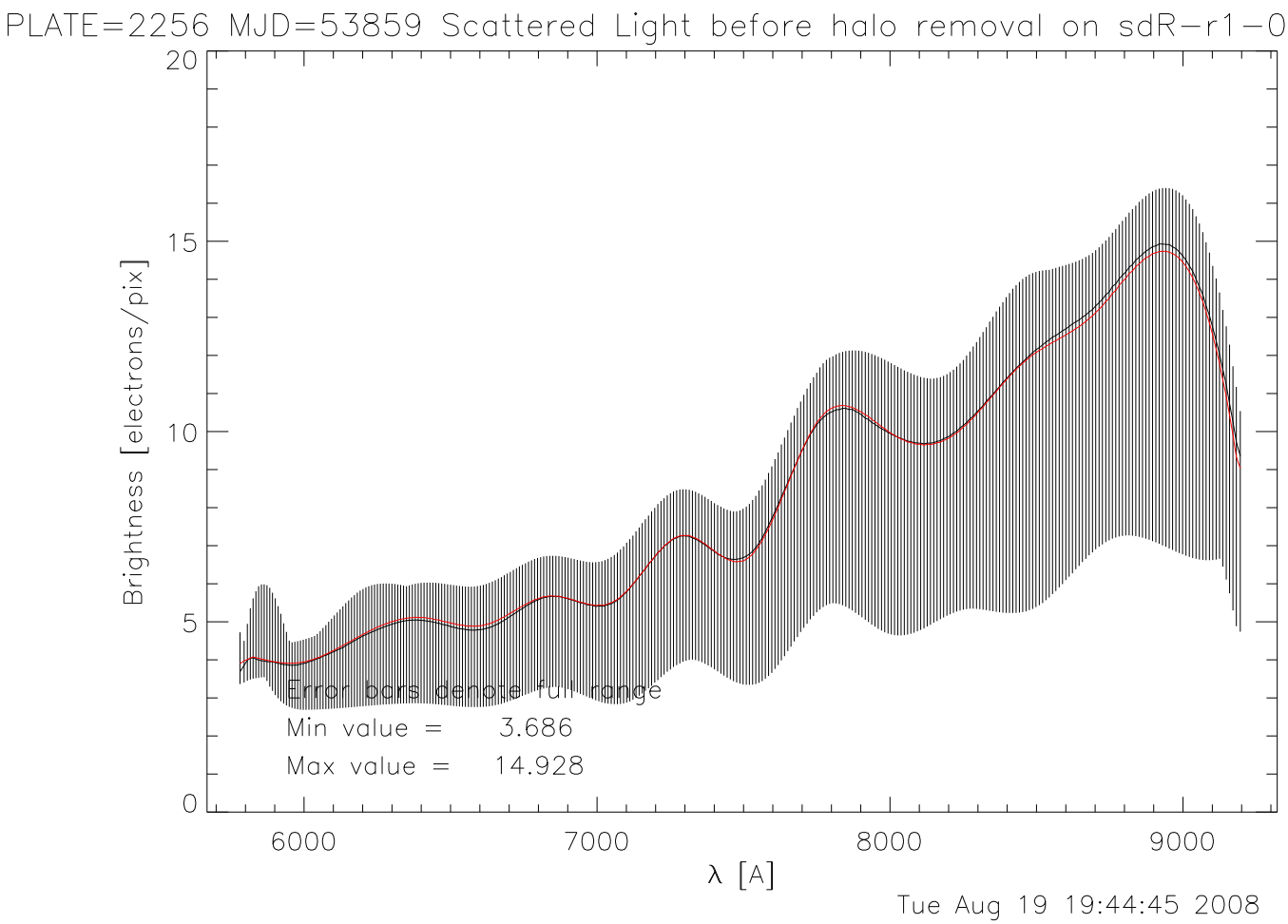

Number of sky fibers = 36
PLATE=2256 MJD=53859 sdR-r1-00039086.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

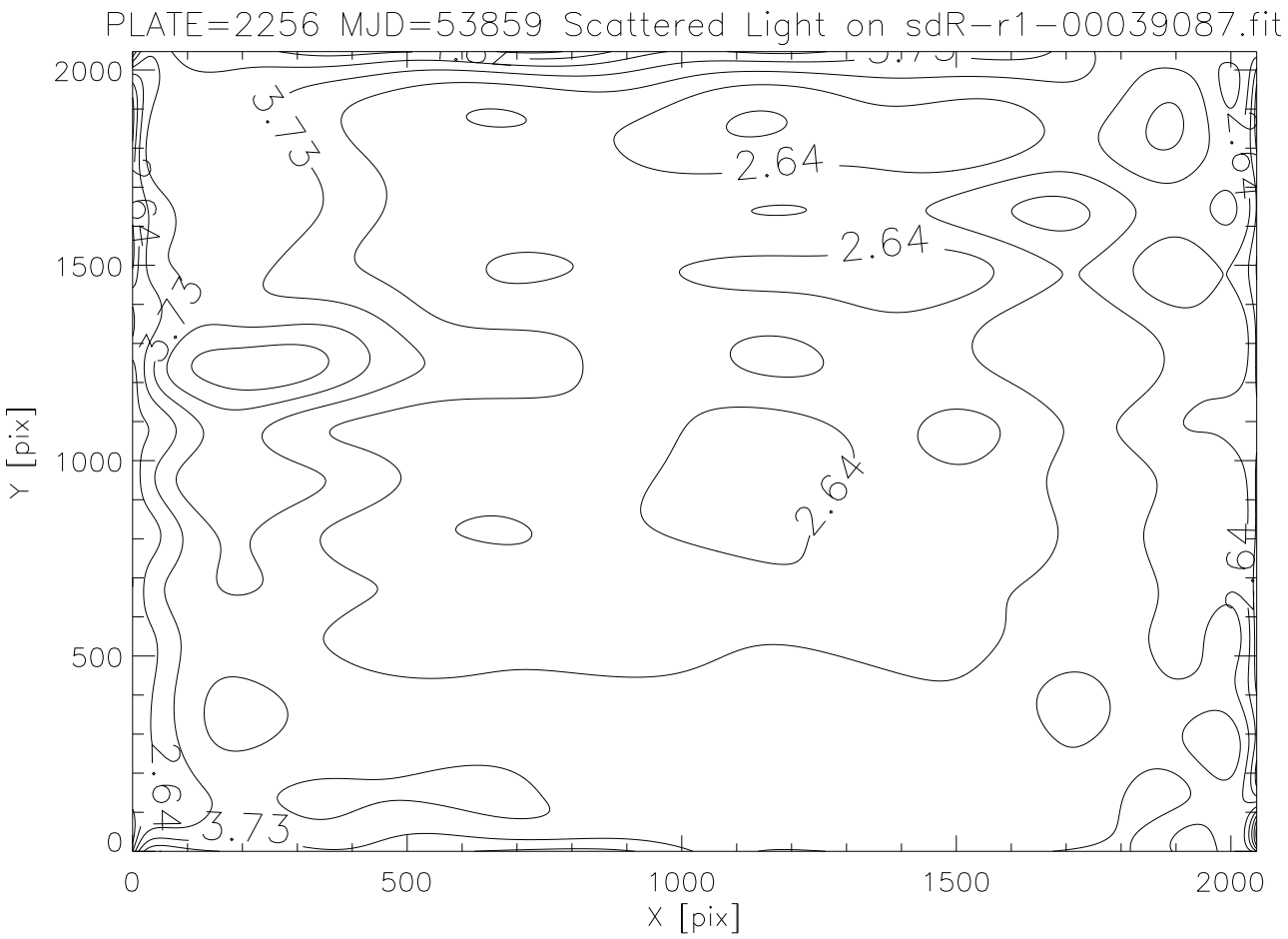

PLATE=2256 MJD=53859 sdR-r1-00039086.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.84 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

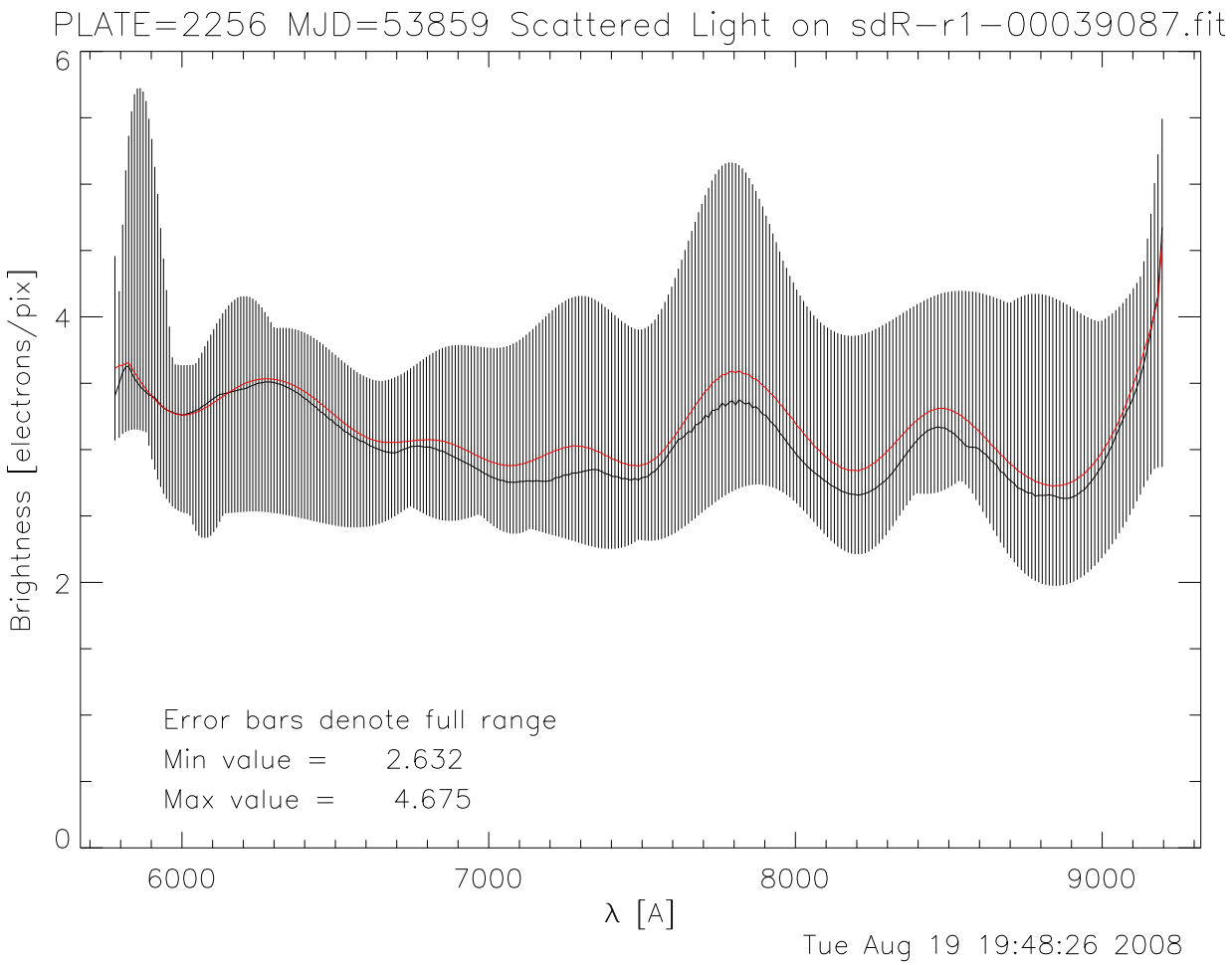

PLATE=2256 MJD=53859 sdR-r1-00039086.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.55 %
Fiber number
Focal Distance [mm]
Airmass

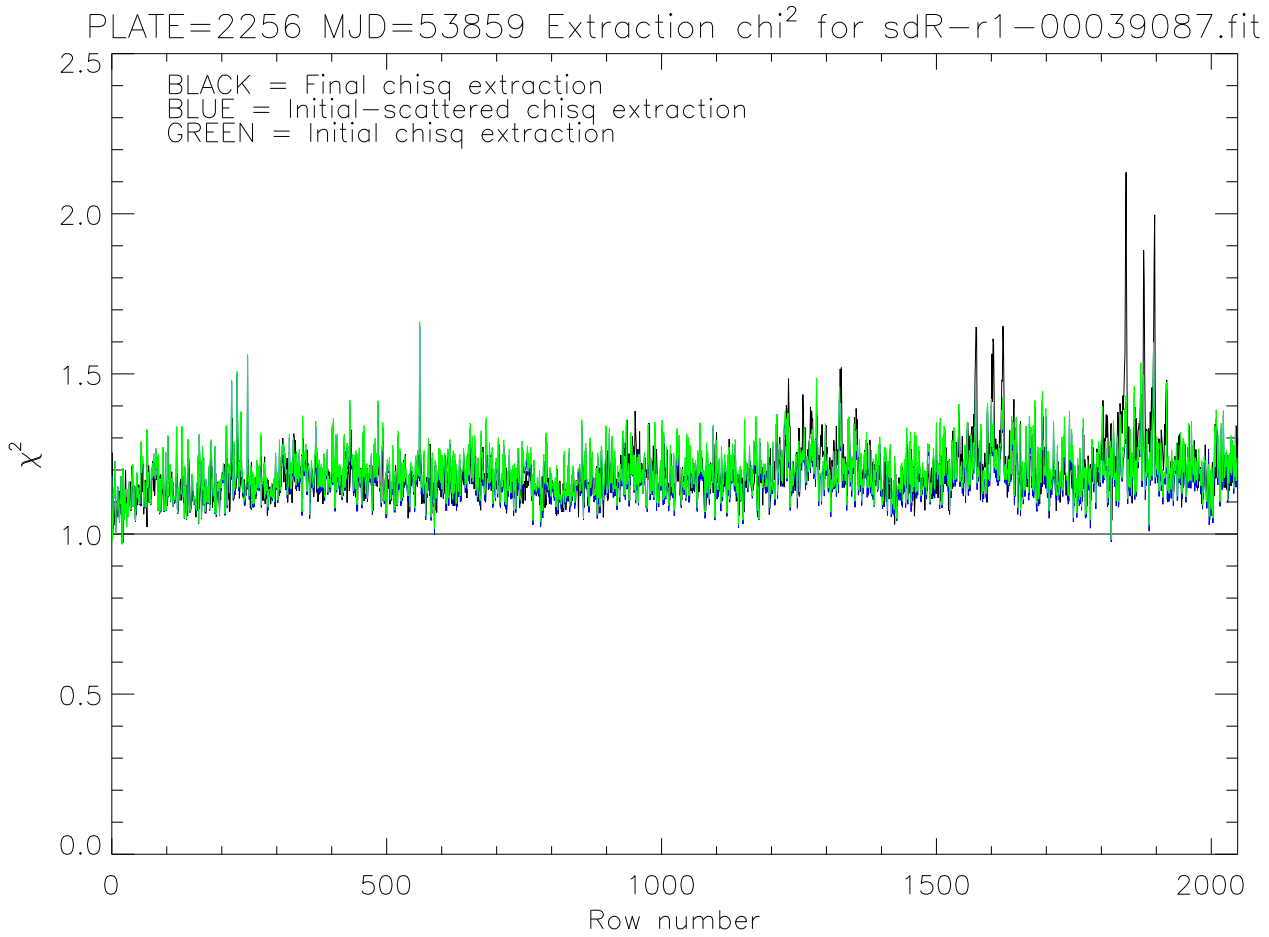

PLATE=2256 MJD=53859 Fiber−Flats for sdR−r1−00039084.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.204
Max value = 1.350
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Tue Aug 19 19:43:37 2008

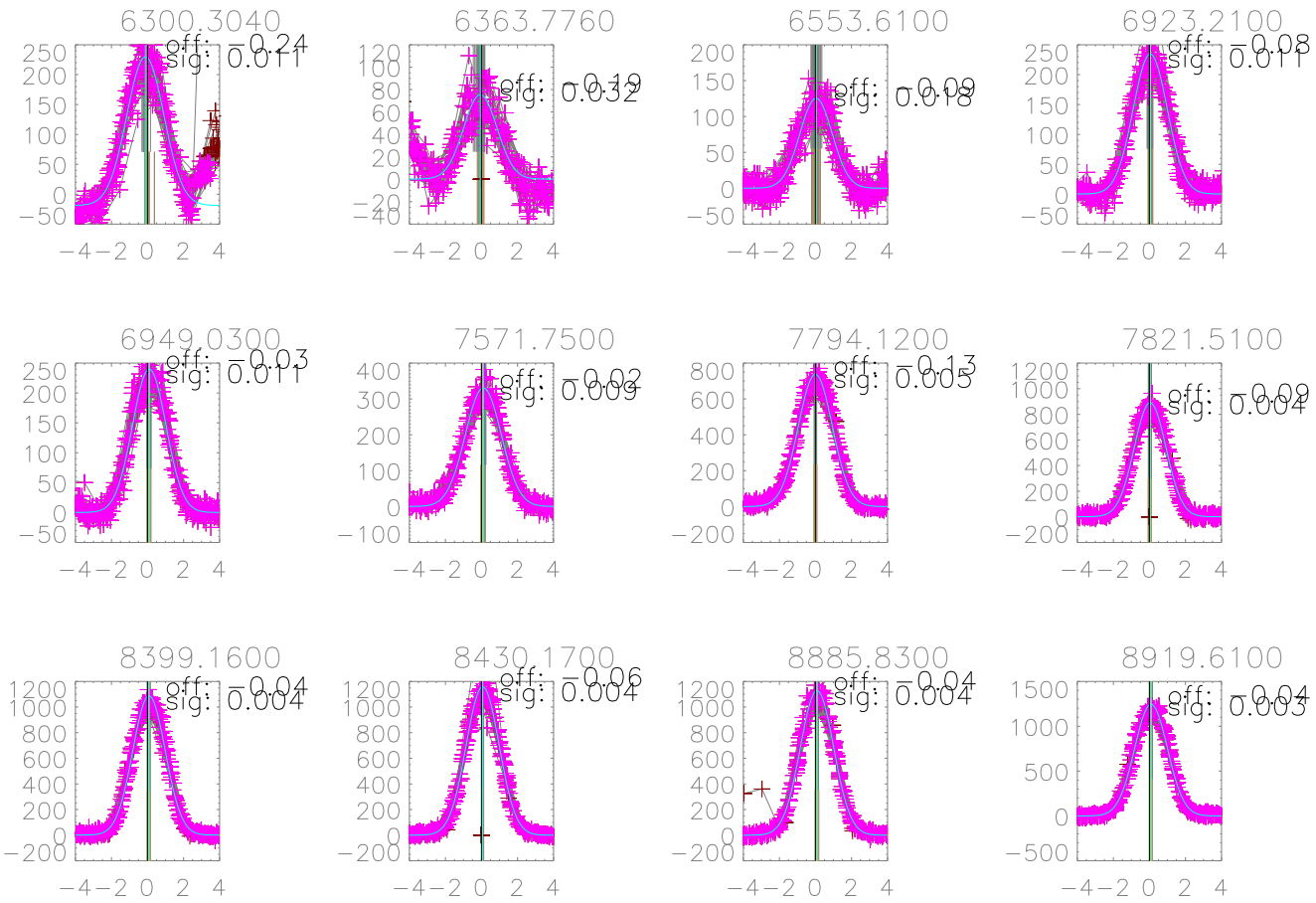

PLATE=2256 MJD=53859 Scattered Light before halo removal on sdR−r1−00039087.fi
12.7
12.7
12.7
9.1
9.1
5.5
5.5
5.5
5.5
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

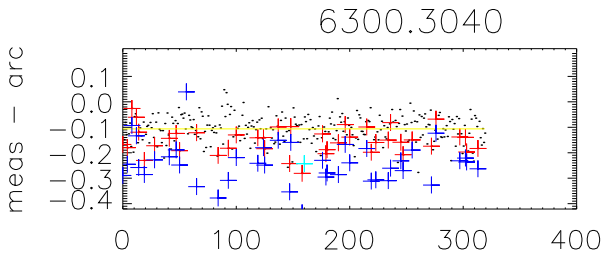

PLATE=2256 MJD=53859 Scattered Light before halo removal on sdR-r1-00039087.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.686
Max value = 14.928
Tue Aug 19 19:44:45 2008

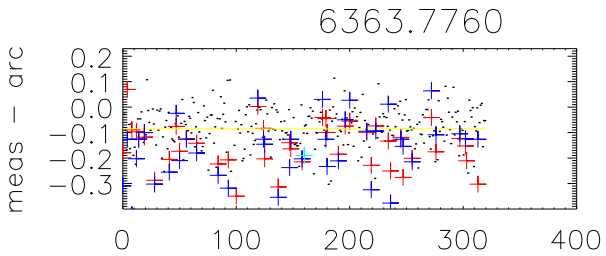

PLATE=2256 MJD=53859 Scattered Light on sdR-r1-00039087.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
3.73
2.64
2.64
2.64
2.64
3.73
3.73

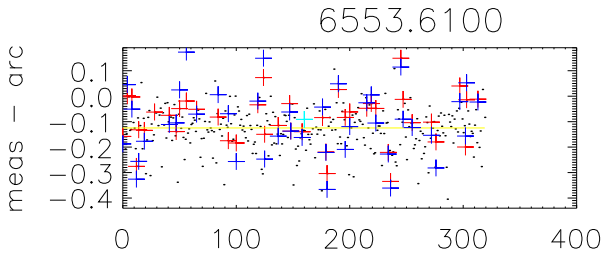

PLATE=2256 MJD=53859 Scattered Light on sdR-r1-00039087.fit
Brightness [electrons/pix]
0
2
4
6
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 2.632
Max value = 4.675
Tue Aug 19 19:48:26 2008

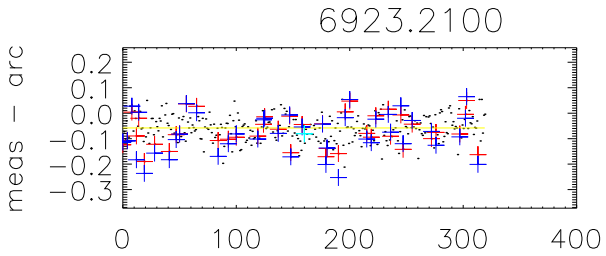

PLATE=2256 MJD=53859 Extraction chi$^2$ for sdR−r1−00039087.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
$\chi^2$
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

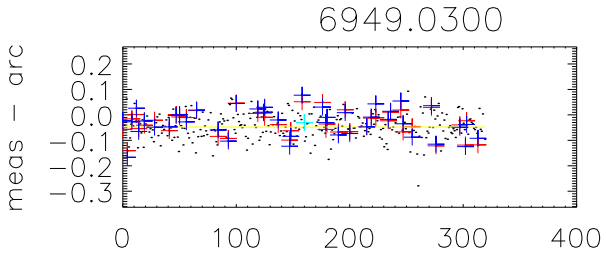

6300.3040
off: −0.24
sig: 0.011
6363.7760
off: −0.19
sig: 0.032
6553.6100
off: −0.09
sig: 0.018
6923.2100
off: −0.08
sig: 0.011
6949.0300
off: −0.03
sig: 0.011
7571.7500
off: −0.02
sig: 0.009
7794.1200
off: −0.13
sig: 0.005
7821.5100
off: −0.09
sig: 0.004
8399.1600
off: −0.04
sig: 0.004
8430.1700
off: −0.06
sig: 0.004
8885.8300
off: −0.04
sig: 0.004
8919.6100
off: −0.04
sig: 0.003

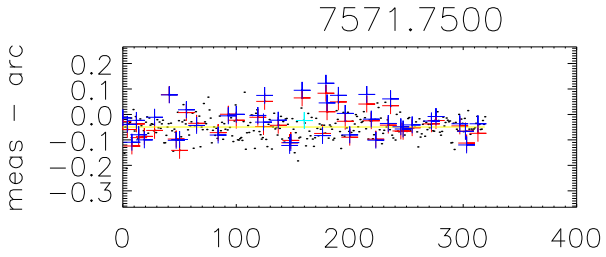

6300.3040
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

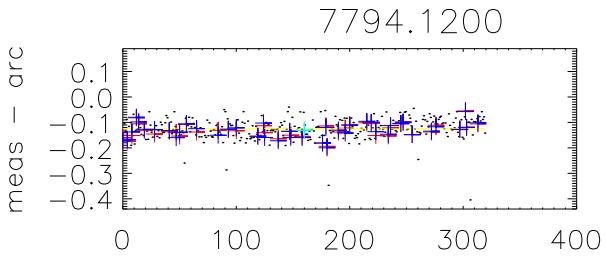

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

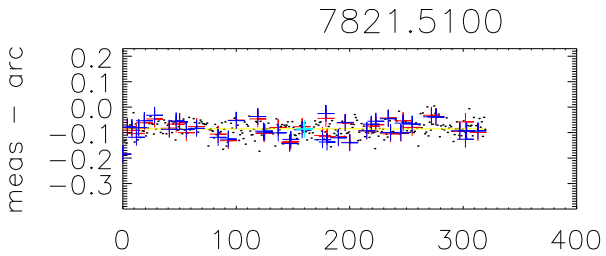

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

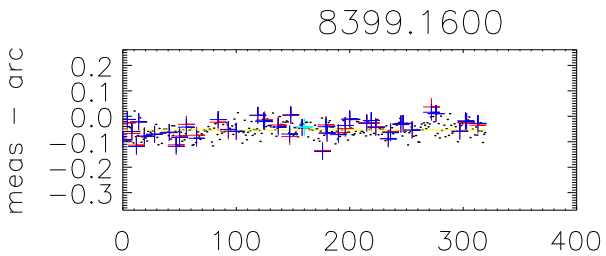

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

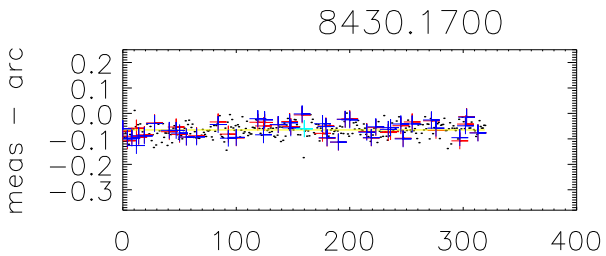

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

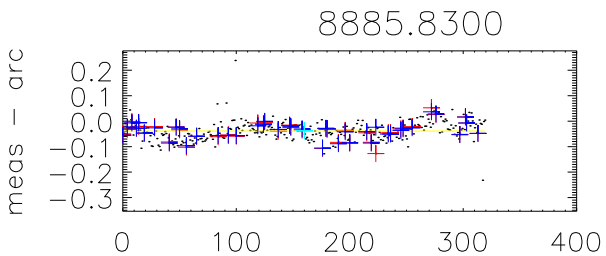

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

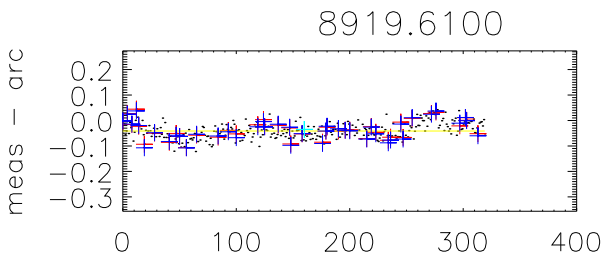

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

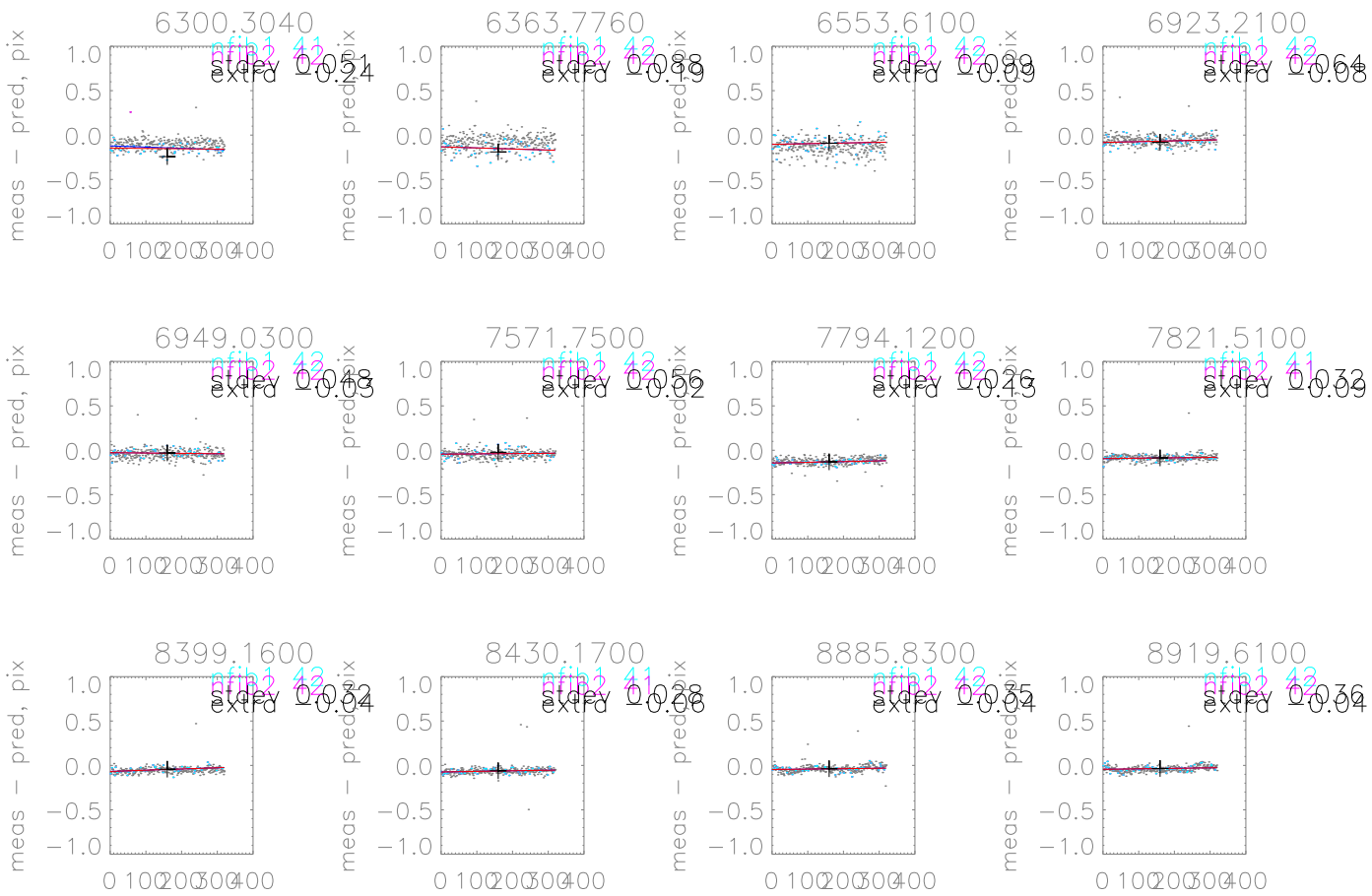

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

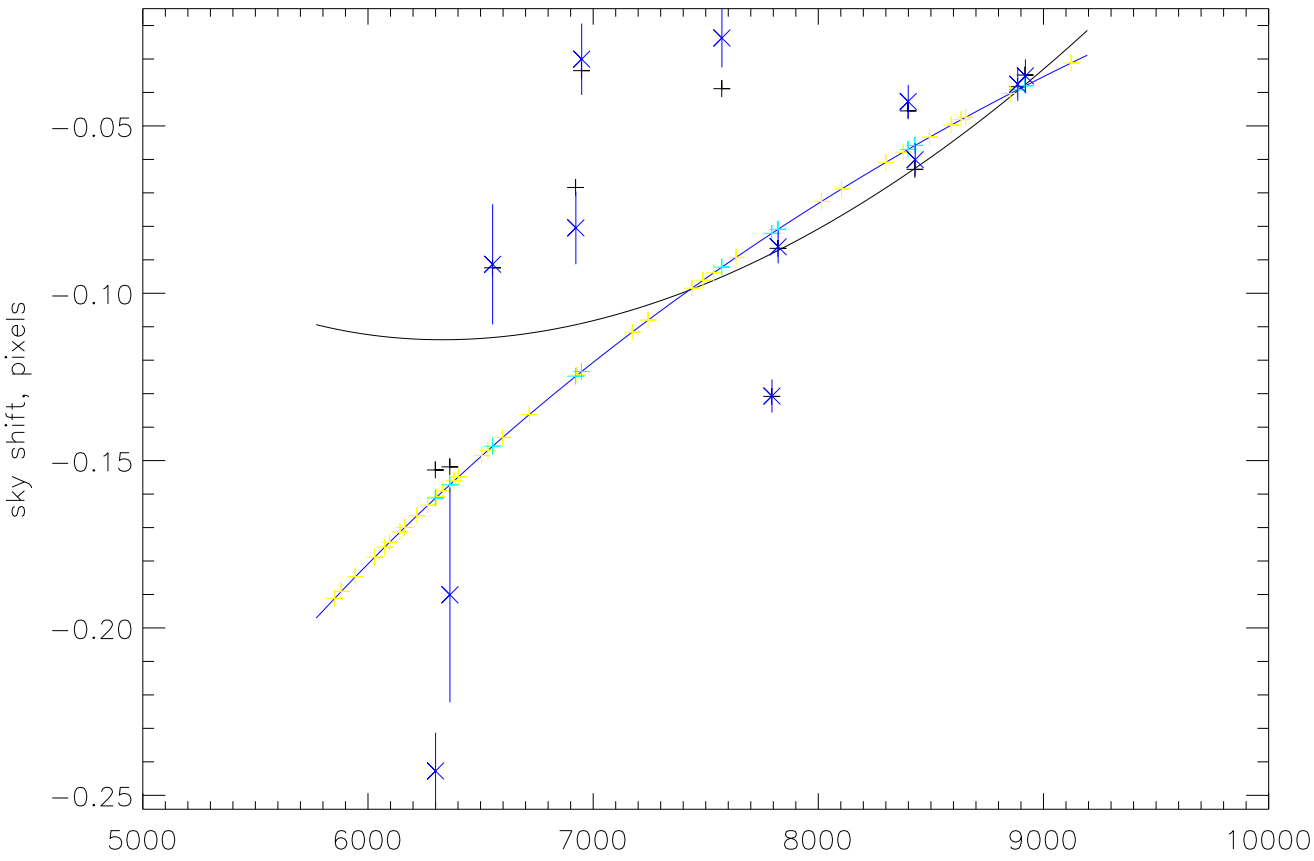

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

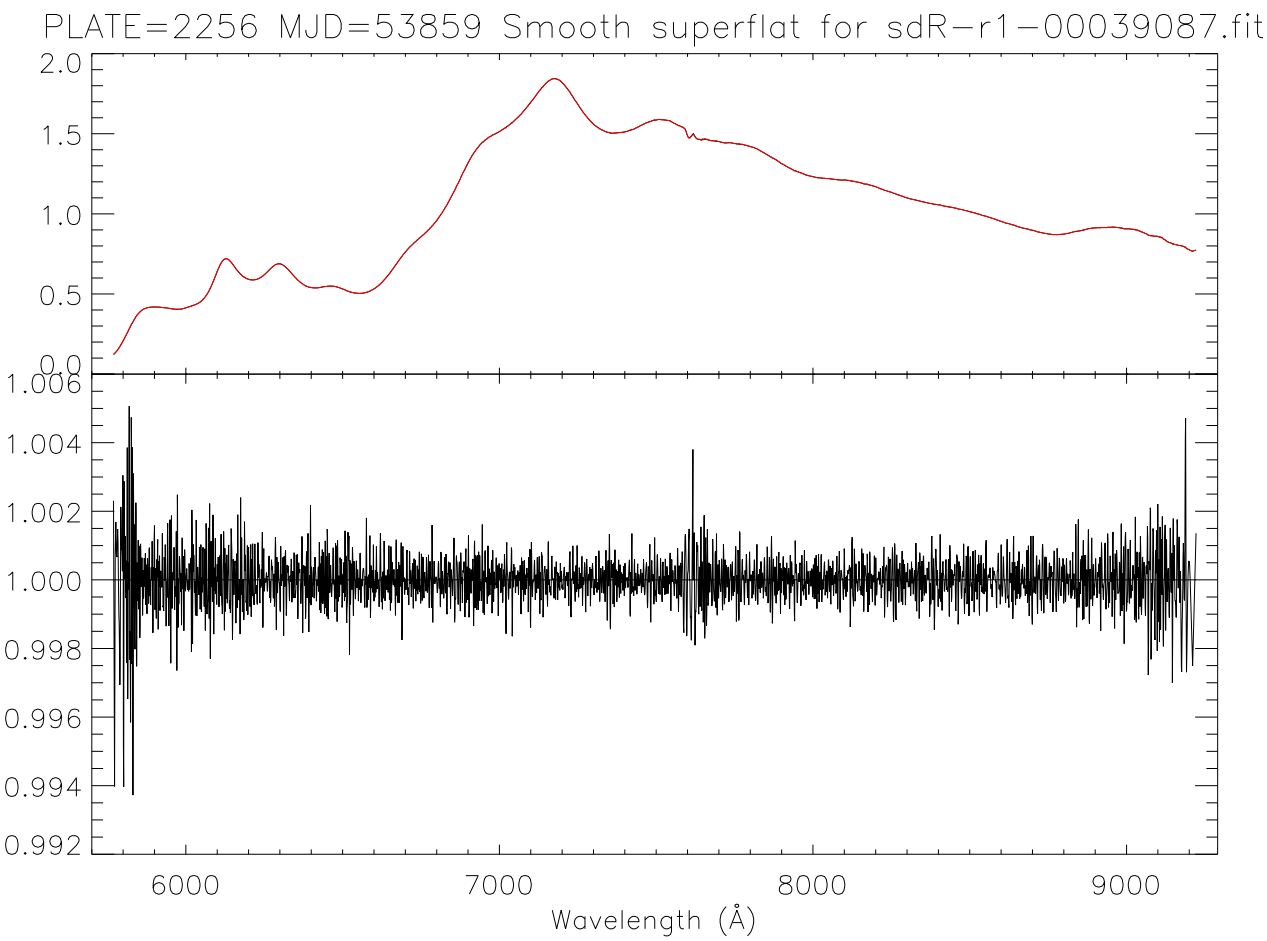

8885.8300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

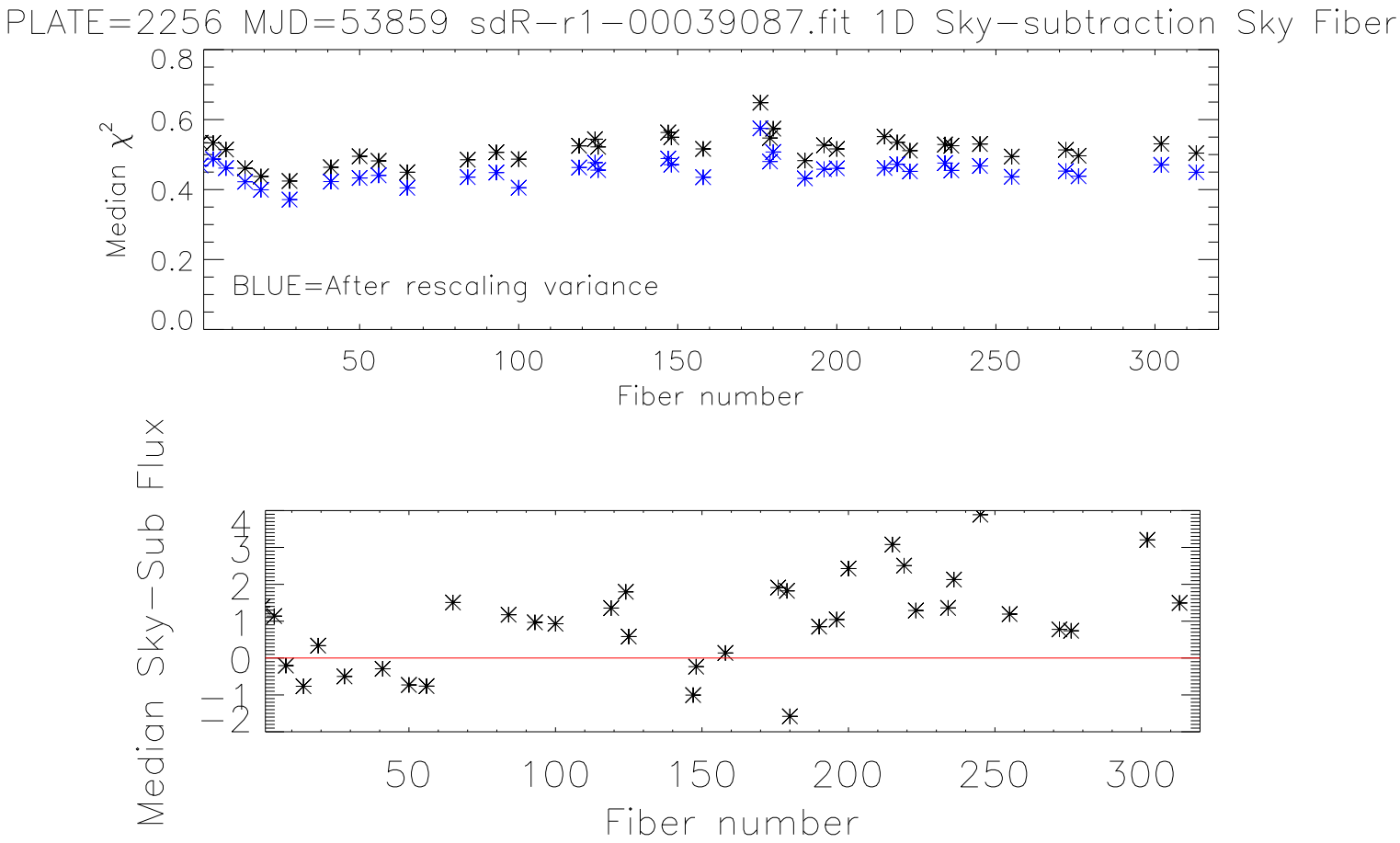

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

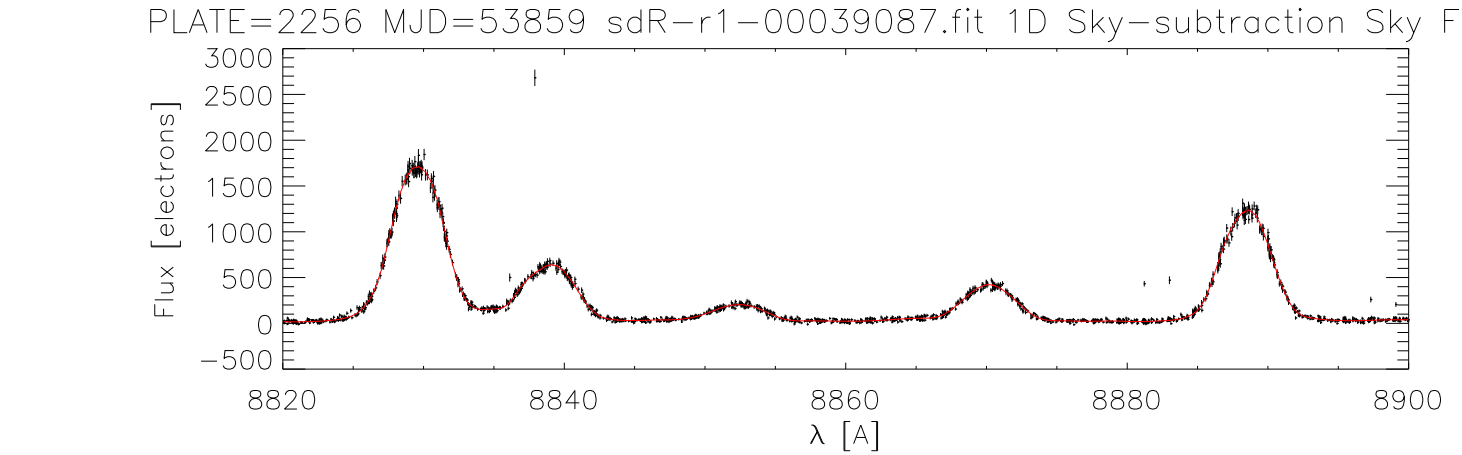

6300.3040
mfib1 41
mfib2 42
stdev 0.051
extra 0.24
6363.7760
mfib1 42
mfib2 42
stdev 0.088
extra 0.19
6553.6100
mfib1 42
mfib2 42
stdev 0.099
extra 0.09
6923.2100
mfib1 42
mfib2 42
stdev 0.064
extra 0.08
6949.0300
mfib1 42
mfib2 42
stdev 0.048
extra 0.03
7571.7500
mfib1 42
mfib2 42
stdev 0.056
extra 0.02
7794.1200
mfib1 42
mfib2 42
stdev 0.026
extra 0.43
7821.5100
mfib1 41
mfib2 42
stdev 0.032
extra 0.09
8399.1600
mfib1 42
mfib2 42
stdev 0.032
extra 0.04
8430.1700
mfib1 41
mfib2 42
stdev 0.028
extra 0.06
8885.8300
mfib1 42
mfib2 42
stdev 0.035
extra 0.04
8919.6100
mfib1 42
mfib2 42
stdev 0.036
extra 0.04
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

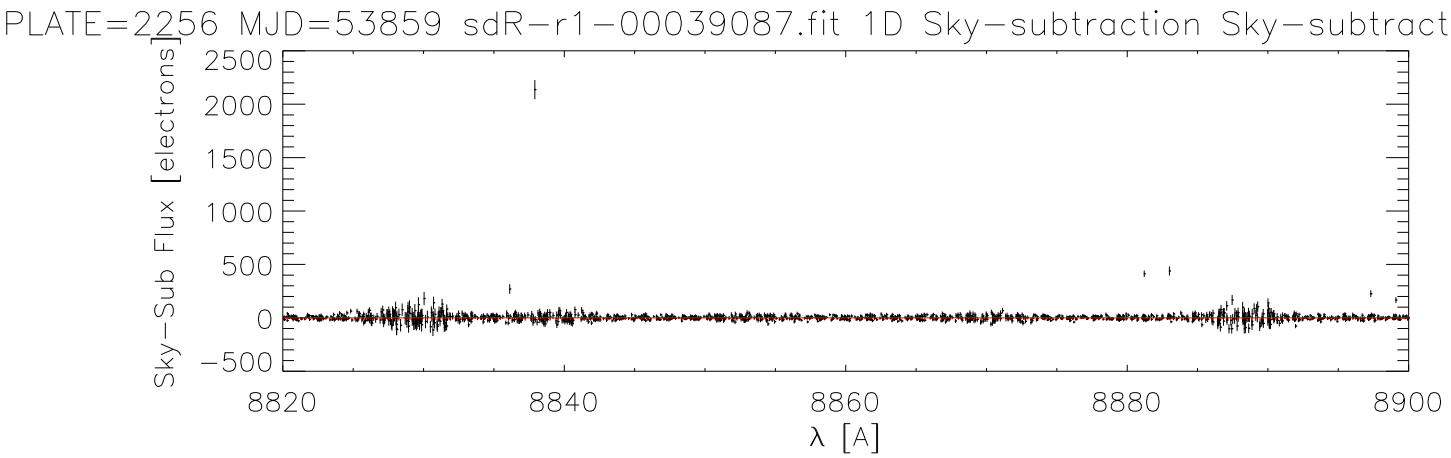

sky shift, pixels
−0.05
−0.10
−0.15
−0.20
−0.25
5000
6000
7000
8000
9000
10000

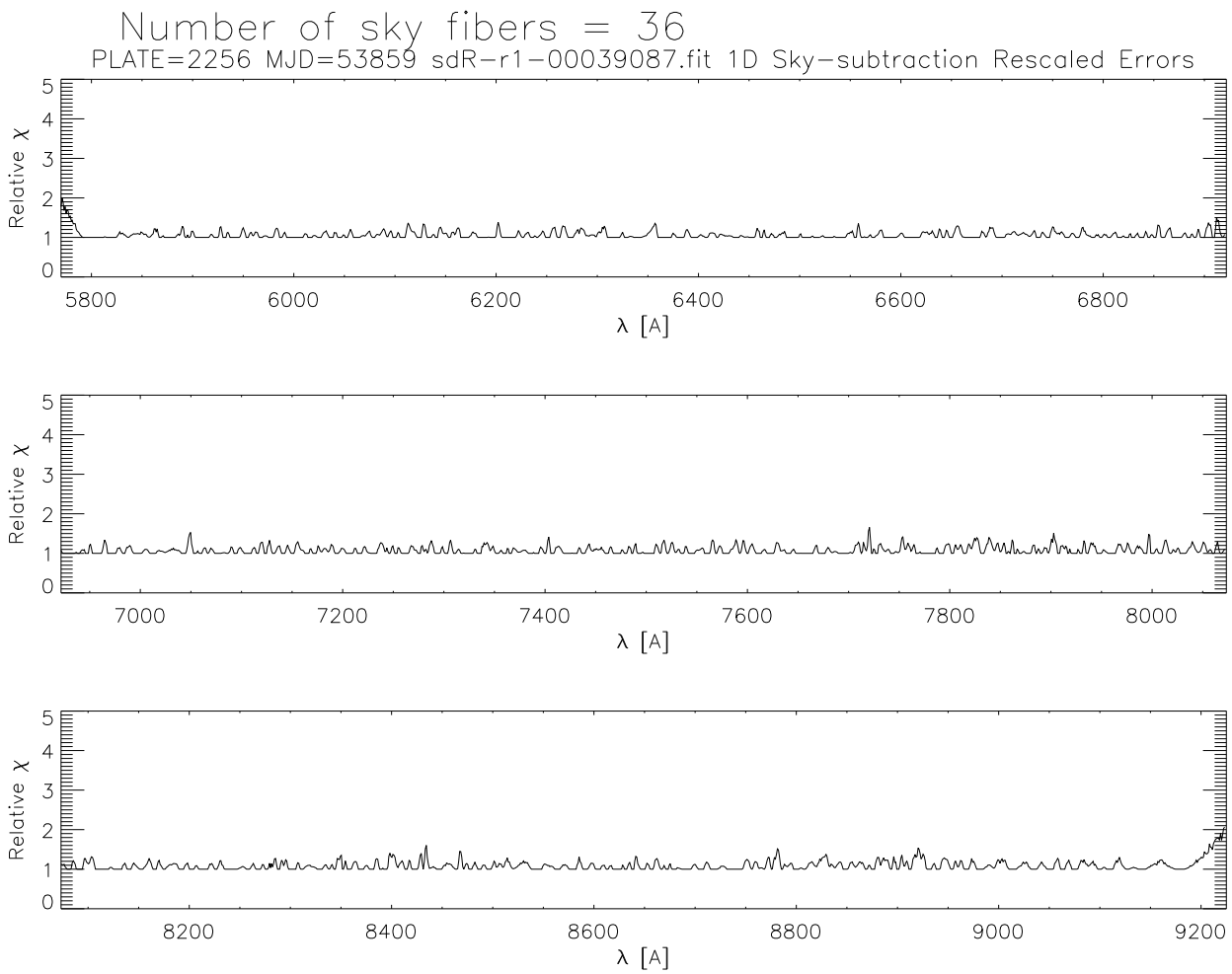
es= 0.0000

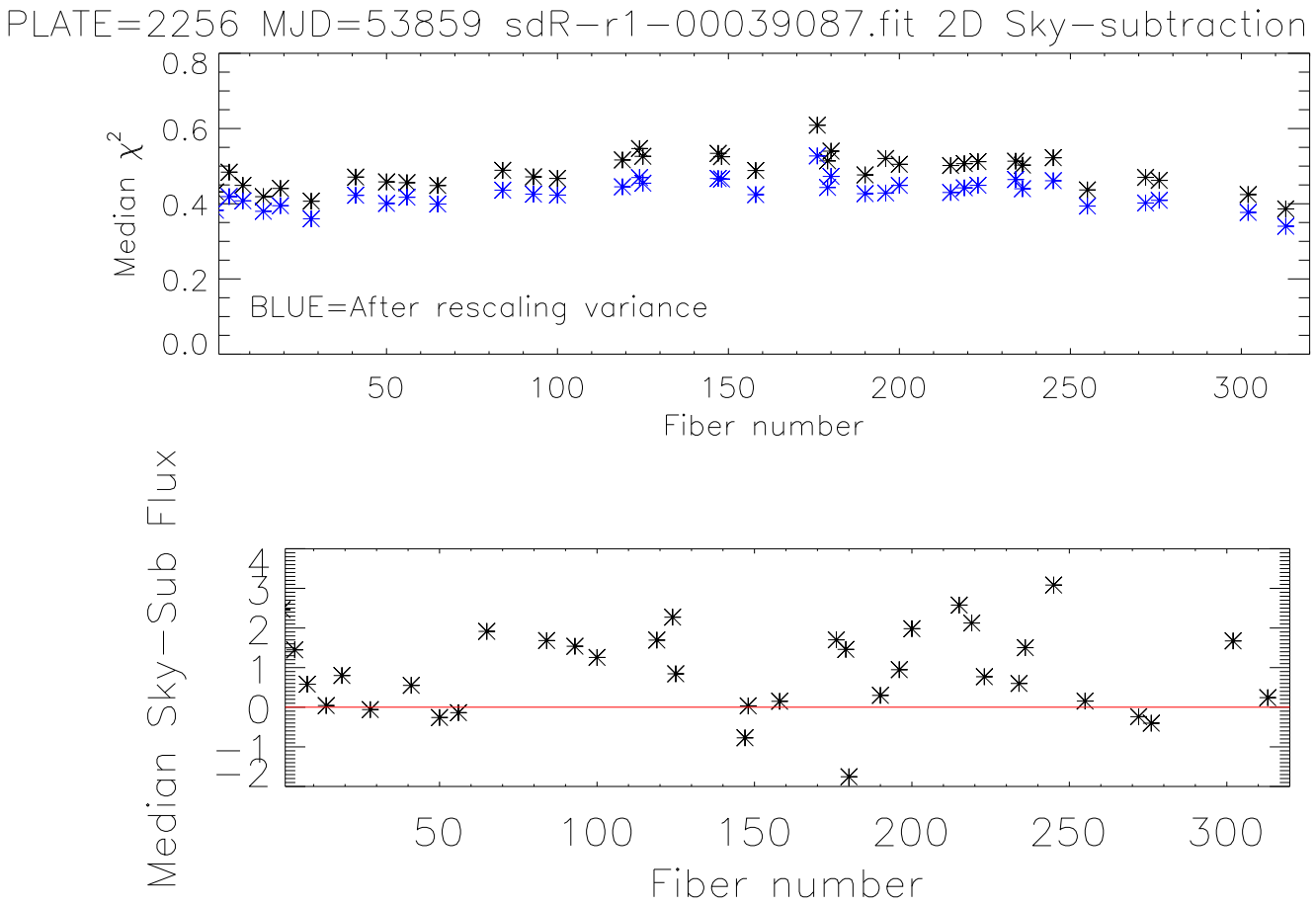

PLATE=2256 MJD=53859 Smooth superflat for sdR-r1-00039087.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
6000
7000
8000
9000
Wavelength (Å)

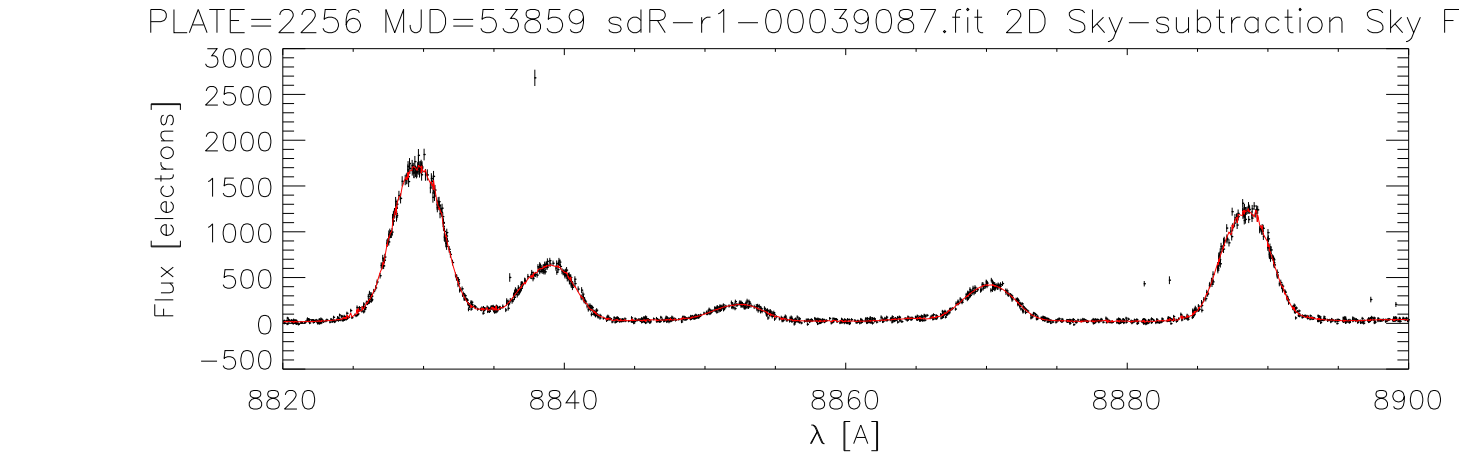

PLATE=2256 MJD=53859 sdR-r1-00039087.fit 1D Sky-subtraction Sky Fibers
Median $\chi^2$
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
4
50
100
150
200
250
300
Fiber number

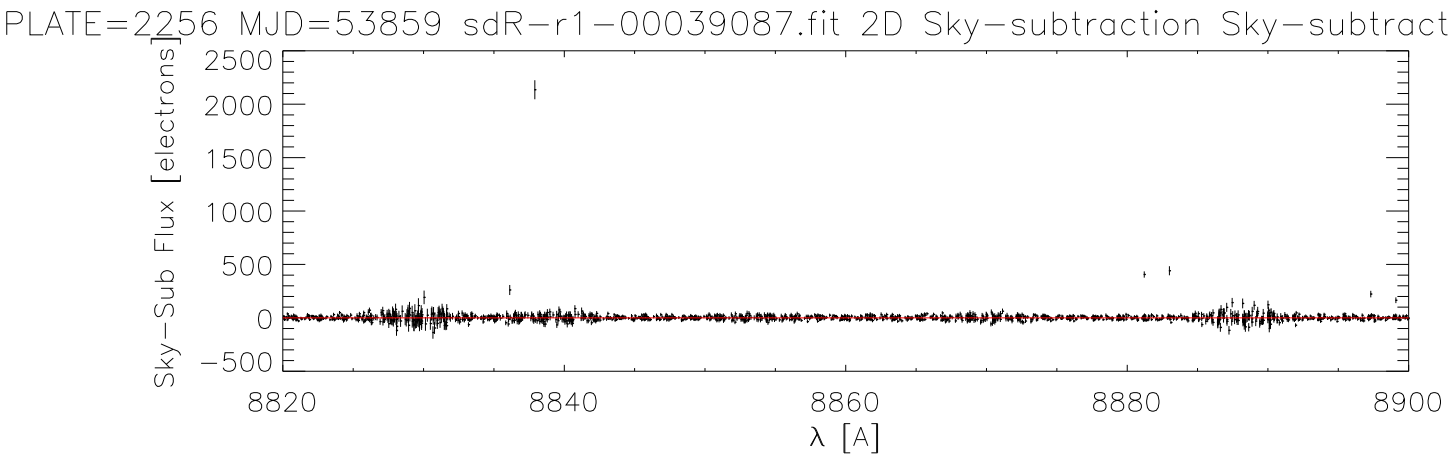

PLATE=2256 MJD=53859 sdR-r1-00039087.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

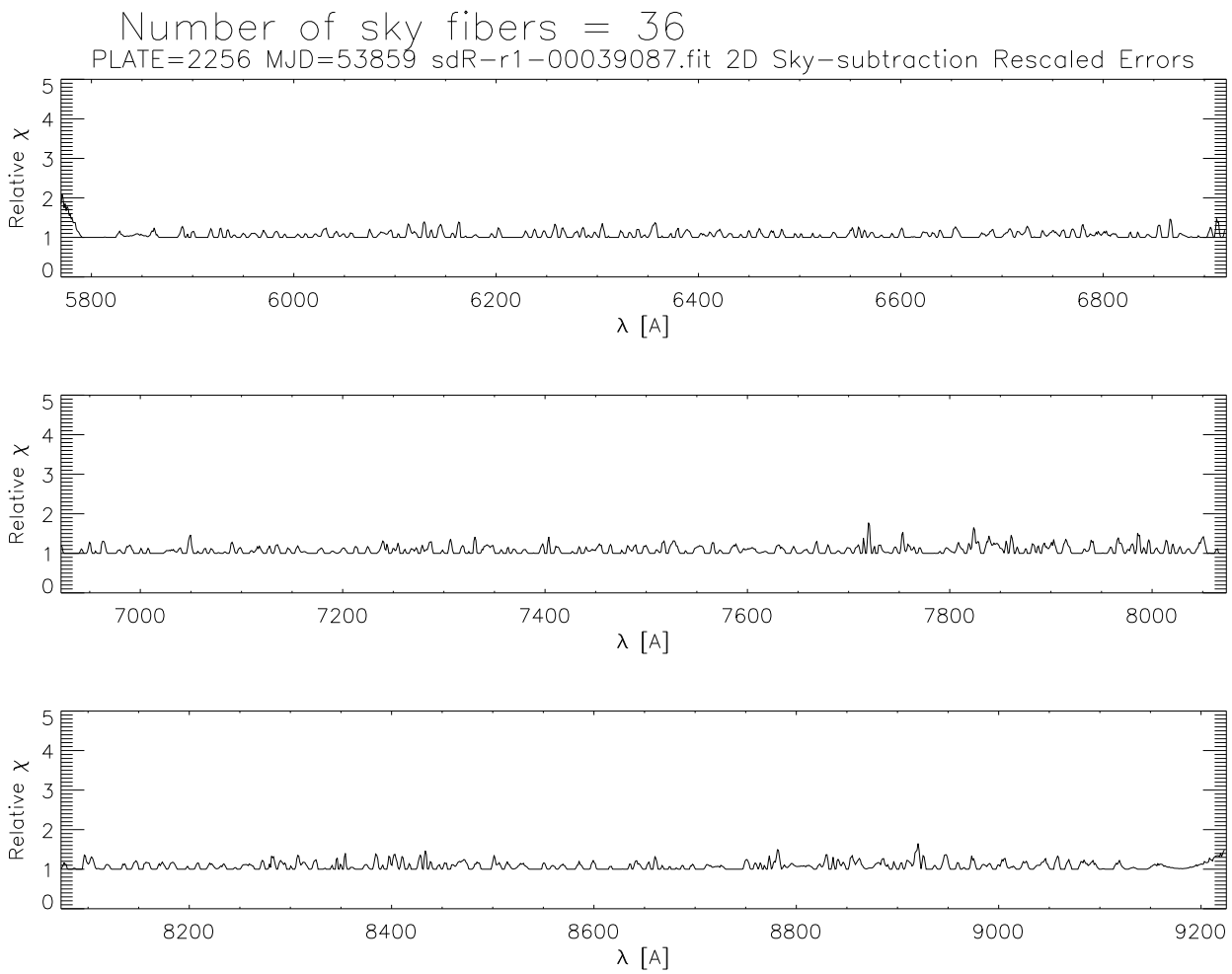

PLATE=2256 MJD=53859 sdR-r1-00039087.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2500
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

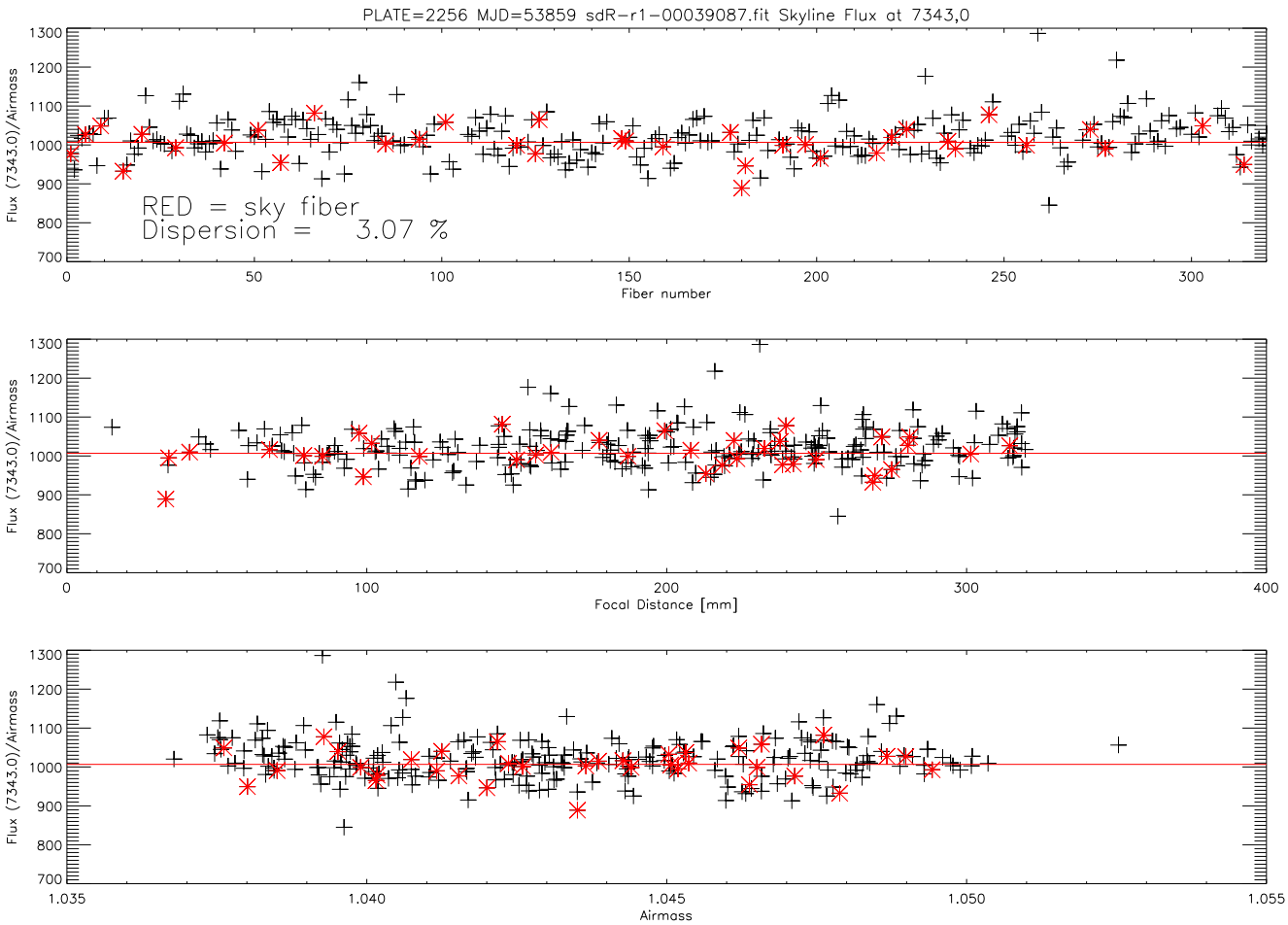

Number of sky fibers = 36
PLATE=2256 MJD=53859 sdR-r1-00039087.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

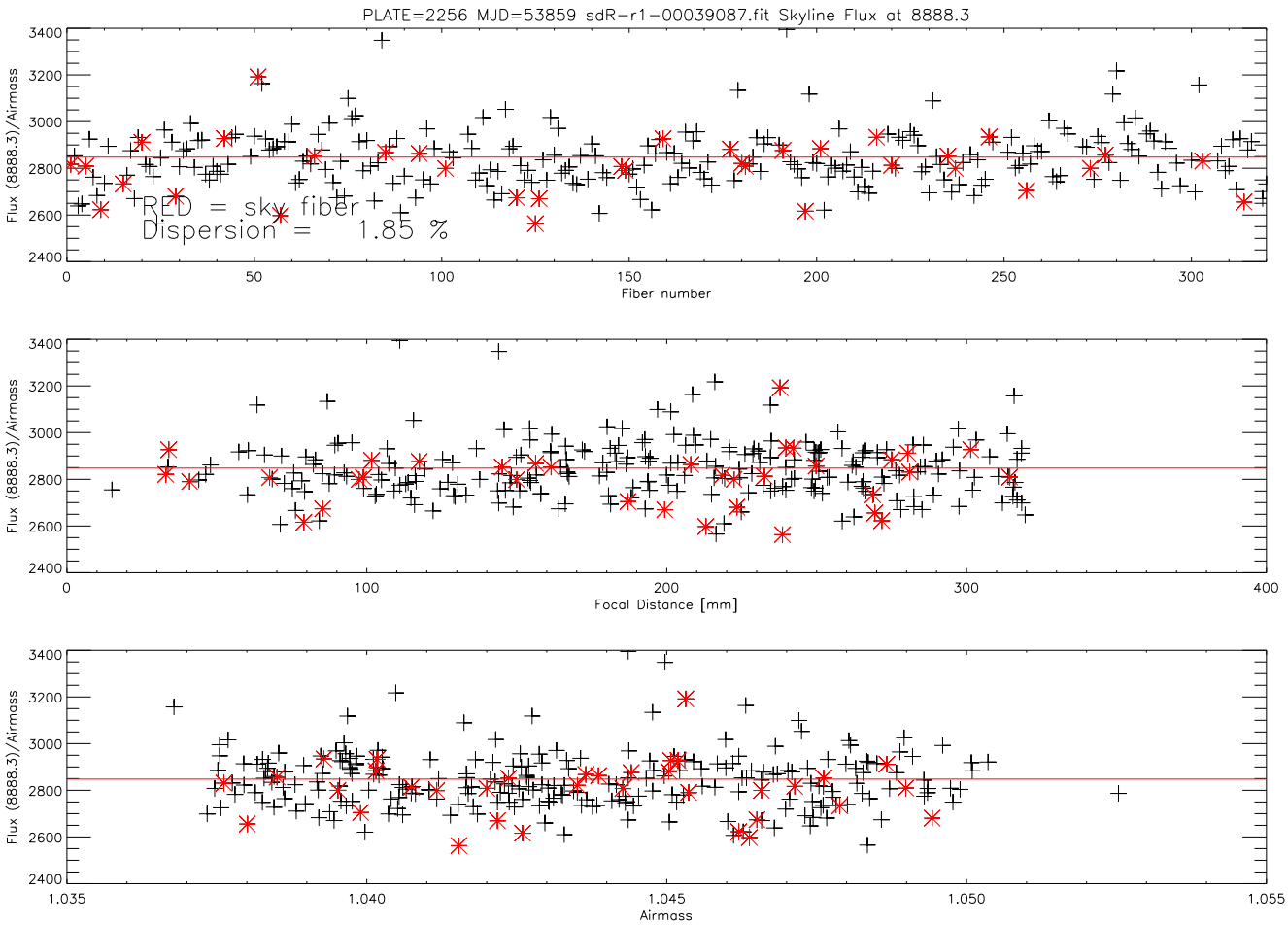

PLATE=2256 MJD=53859 sdR-r1-00039087.fit 2D Sky-subtraction Sky Fibers
Median $\chi^2$
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
4
50
100
150
200
250
300
Fiber number

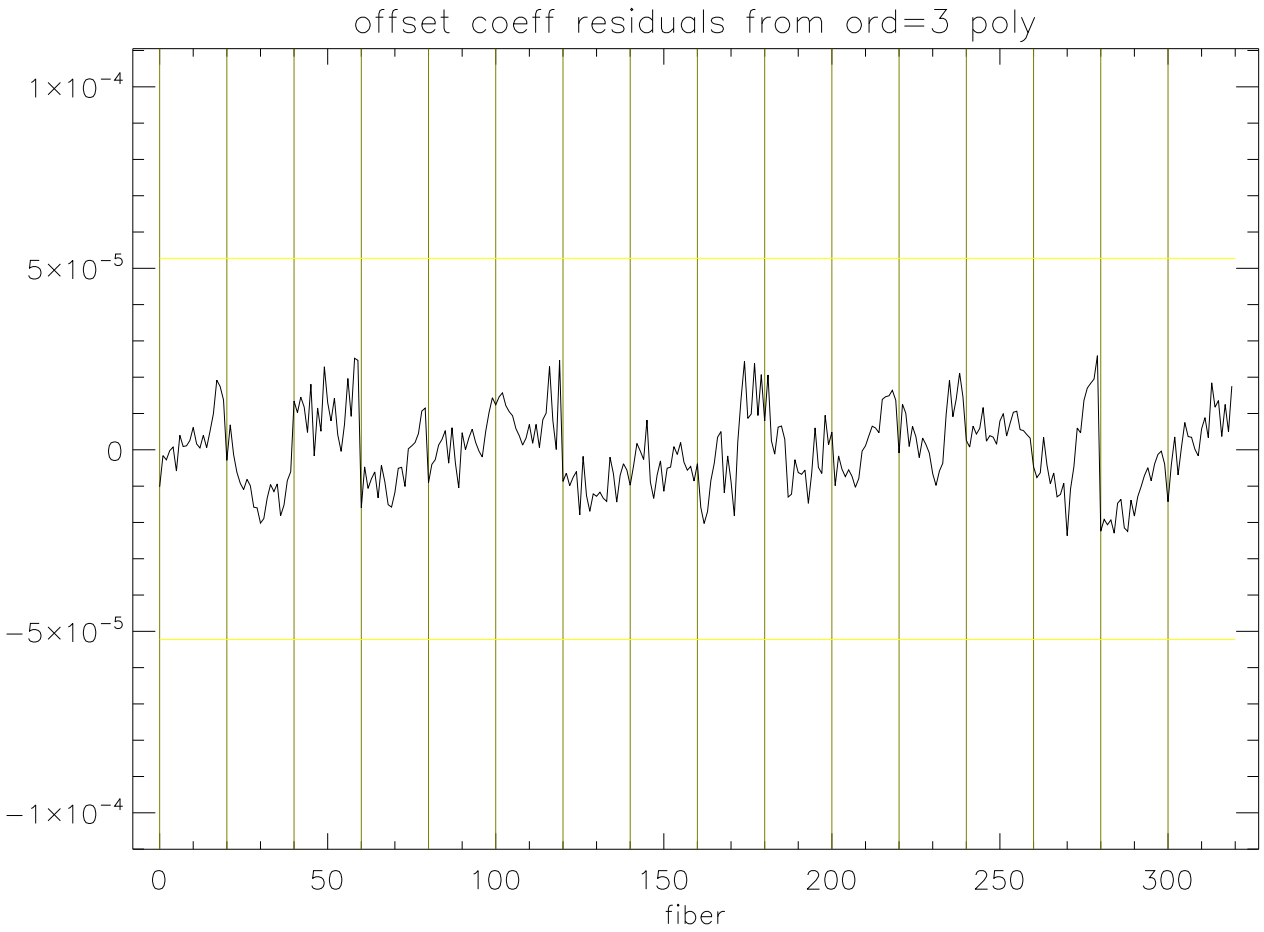

PLATE=2256 MJD=53859 sdR-r1-00039087.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

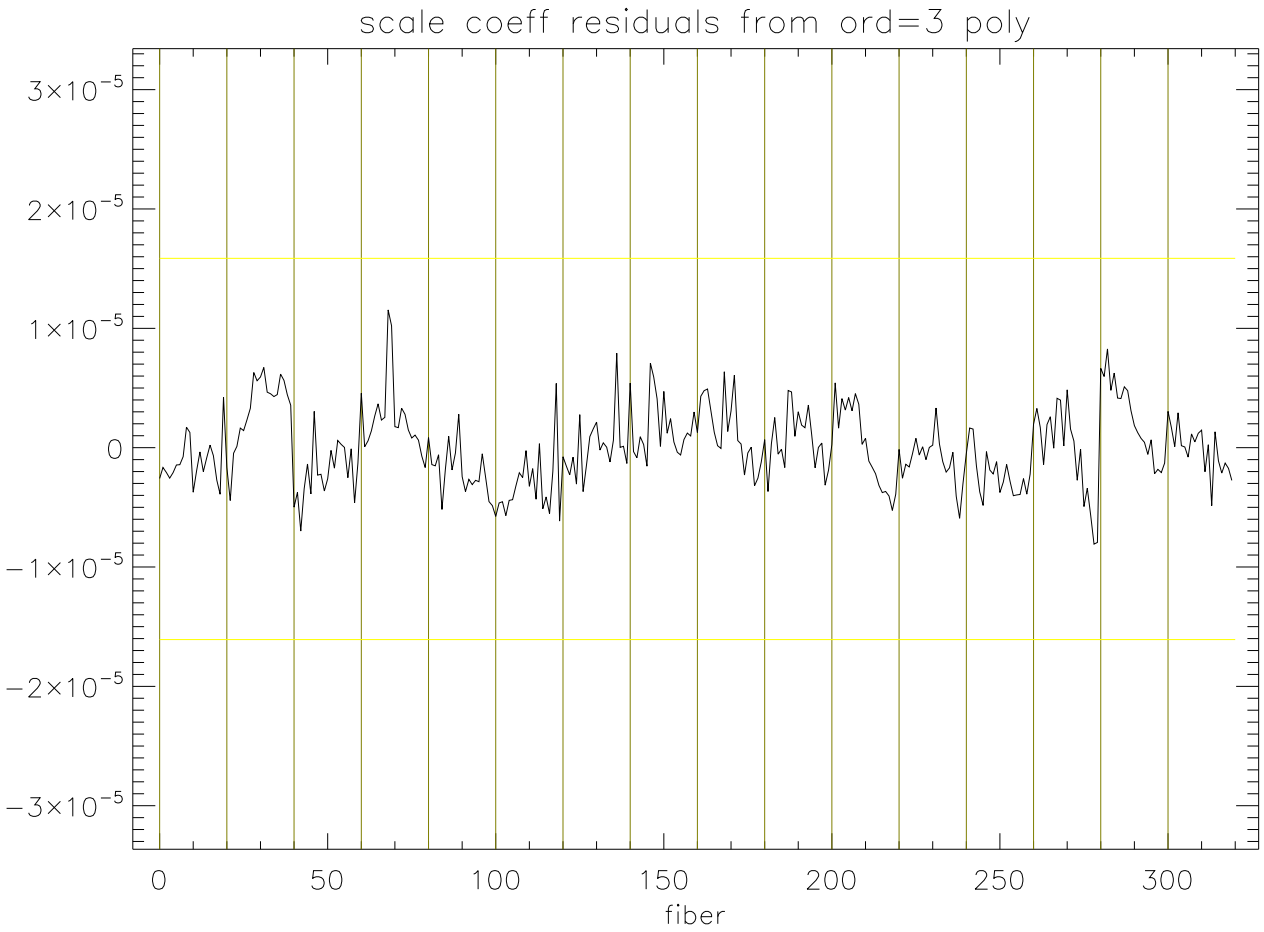

PLATE=2256 MJD=53859 sdR-r1-00039087.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2500
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

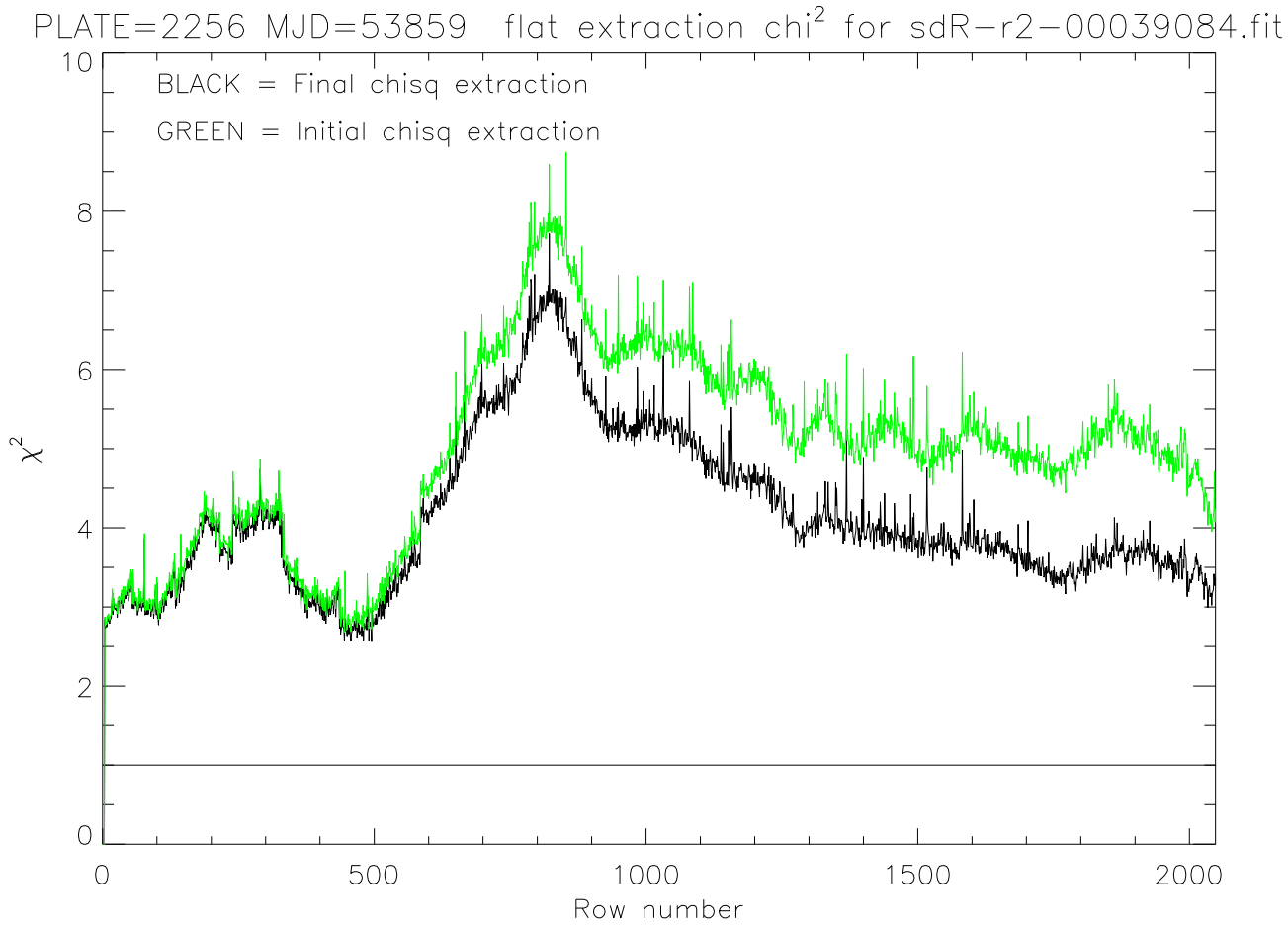

Number of sky fibers = 36
PLATE=2256 MJD=53859 sdR-r1-00039087.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

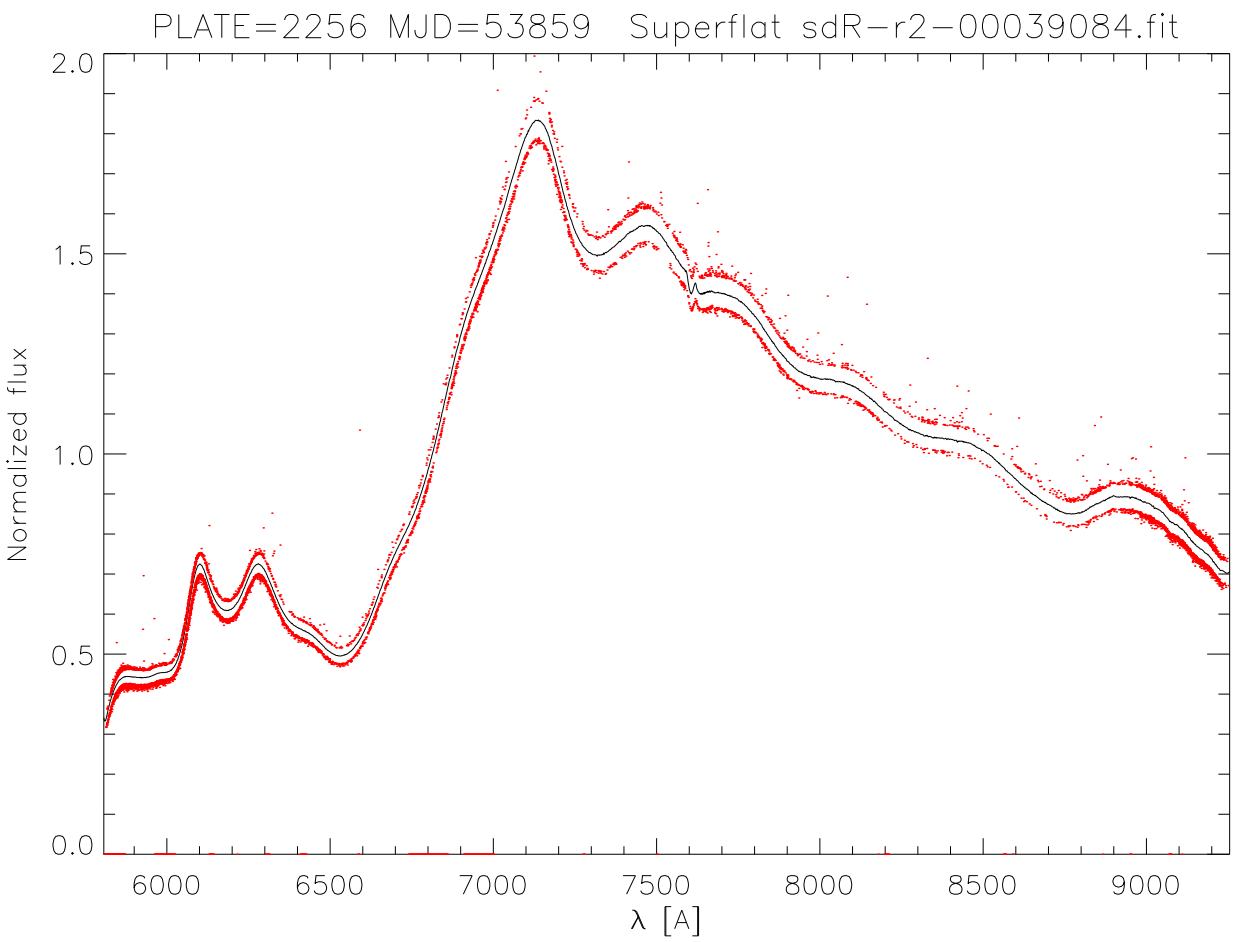

PLATE=2256 MJD=53859 sdR-r1-00039087.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.07 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

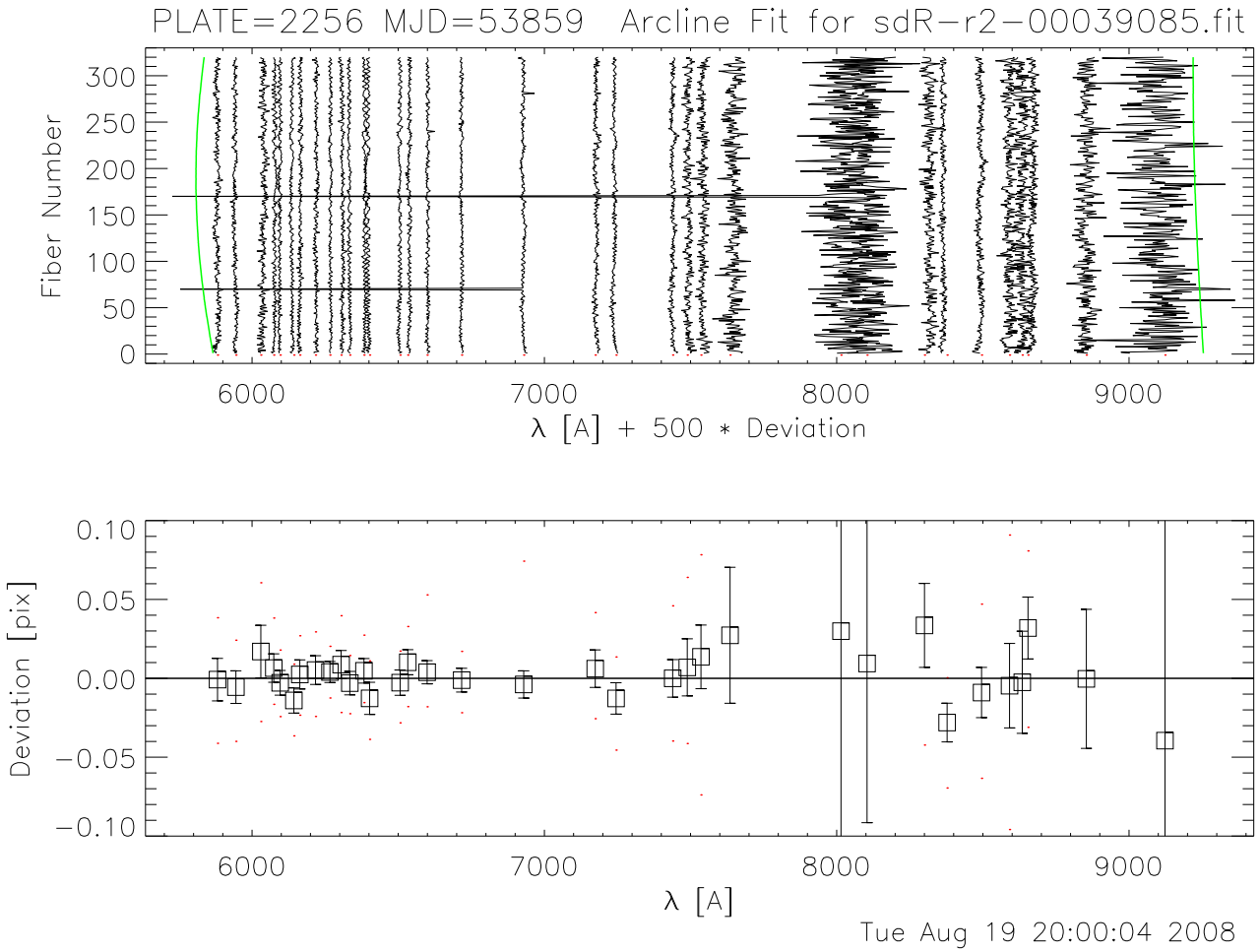

PLATE=2256 MJD=53859 sdR-r1-00039087.fit Skyline Flux at 8888.3
RED = sky fiber
Dispersion = 1.85 %
Flux (8888.3)/Airmass
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

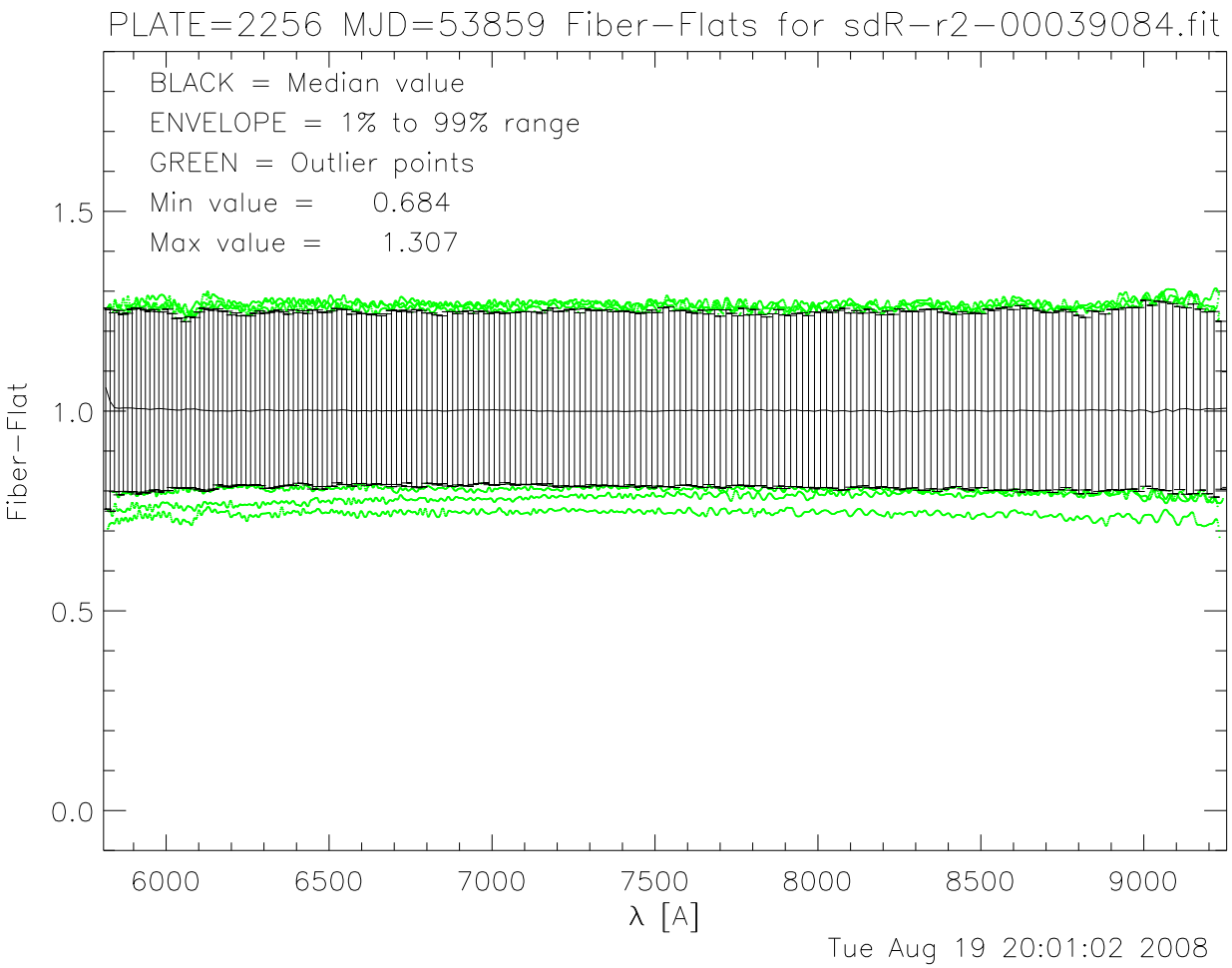

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

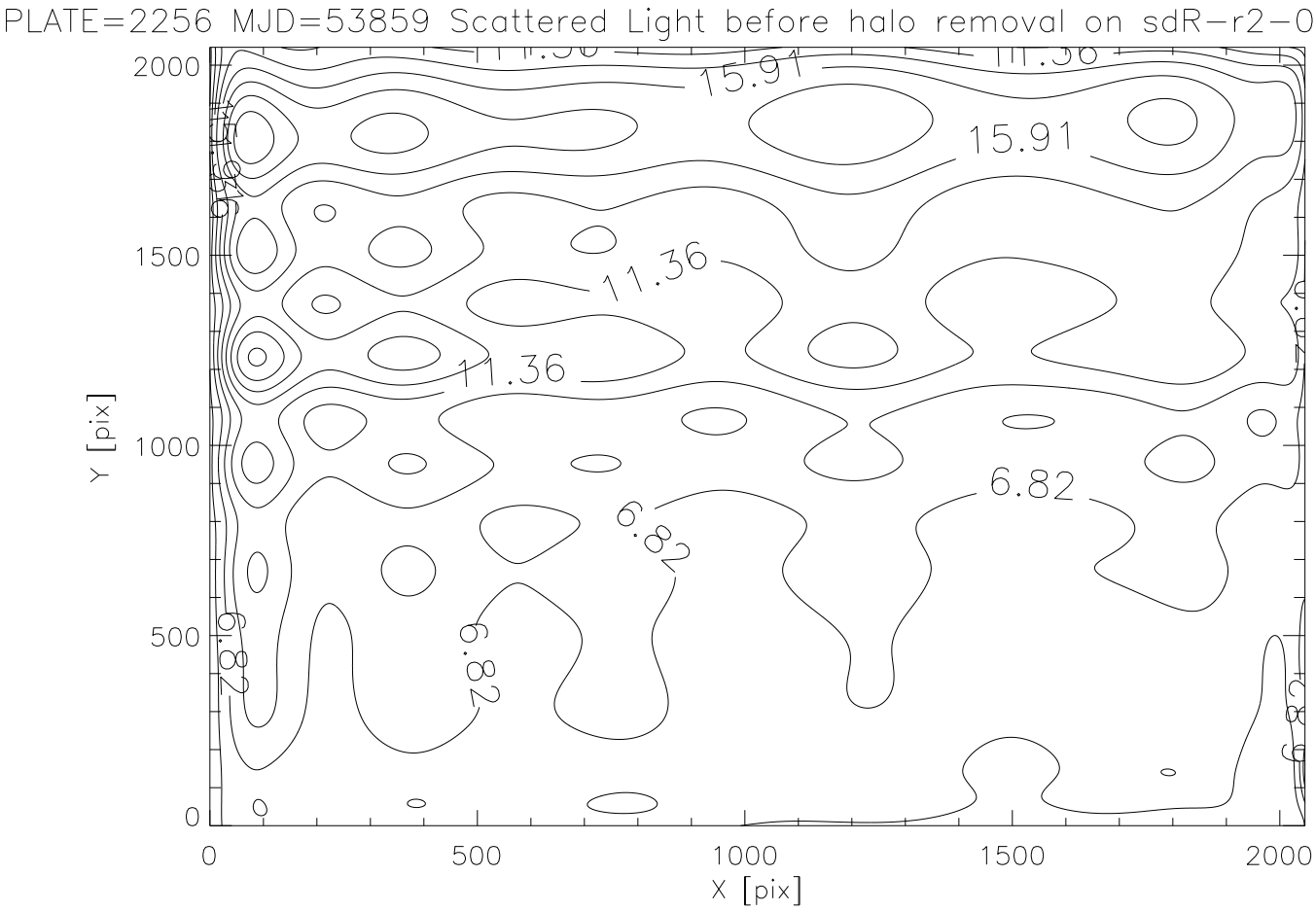

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

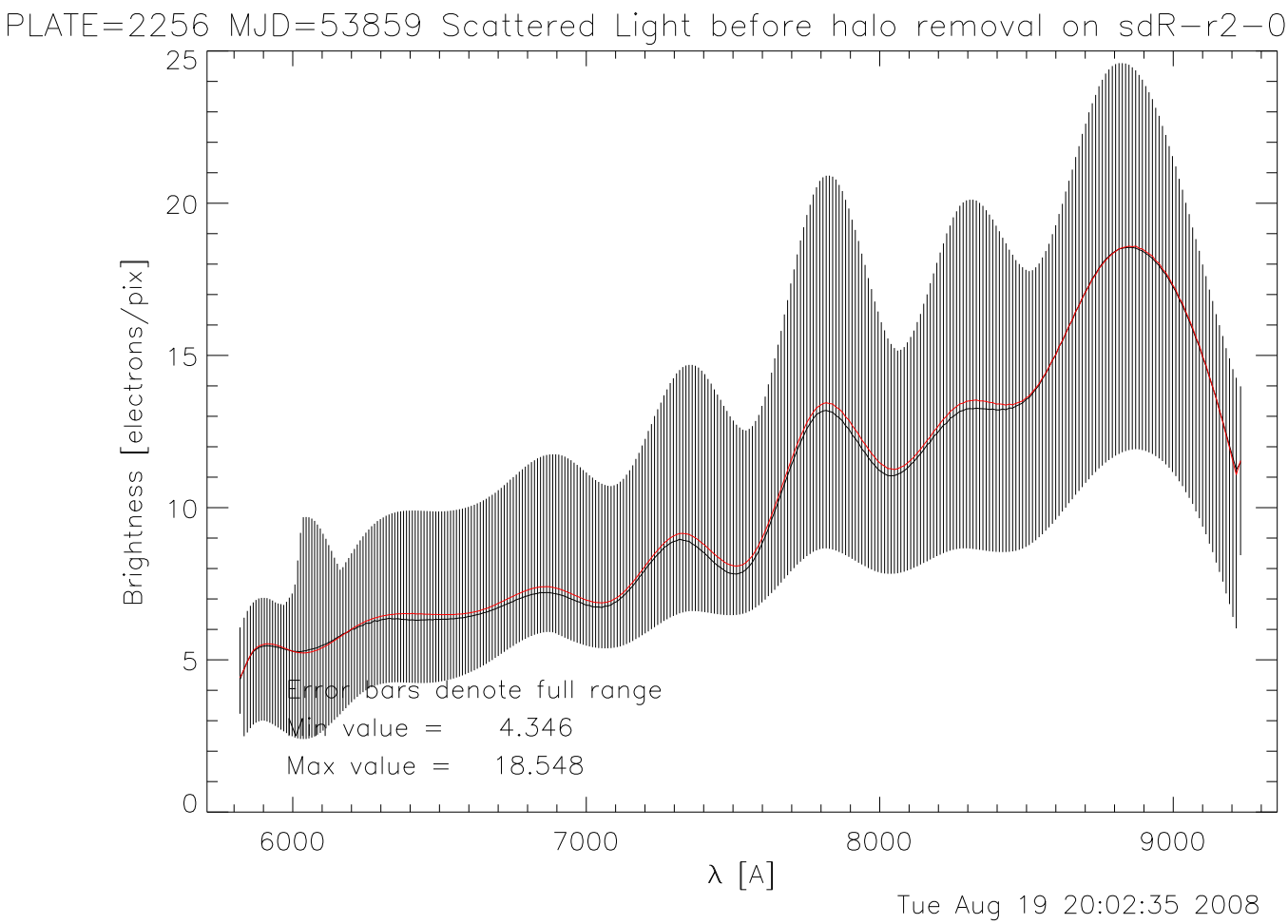

PLATE=2256 MJD=53859 flat extraction chi$^2$ for sdR−r2−00039084.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
$\chi^2$
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

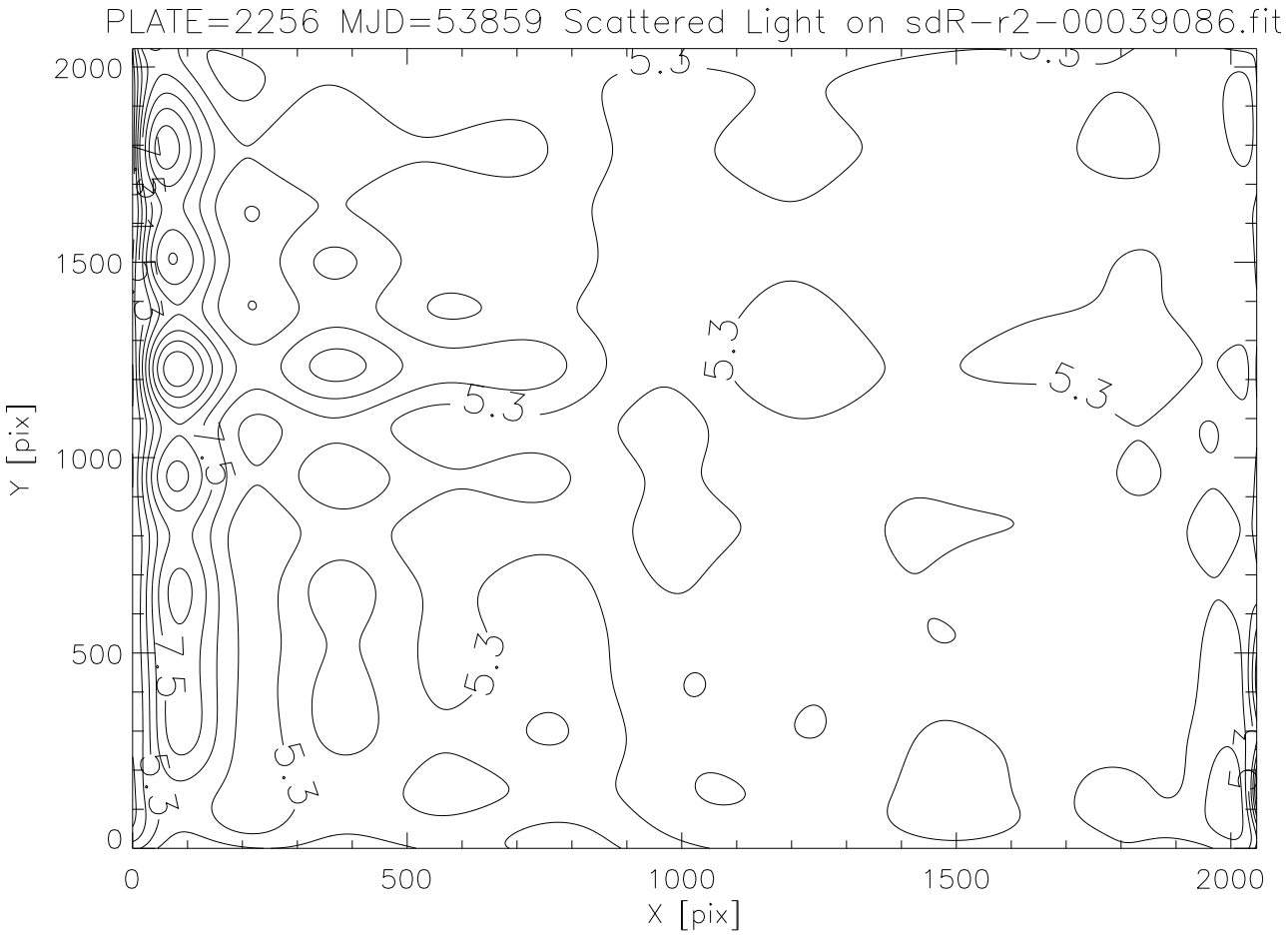

PLATE=2256 MJD=53859 Superflat sdR-r2-00039084.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

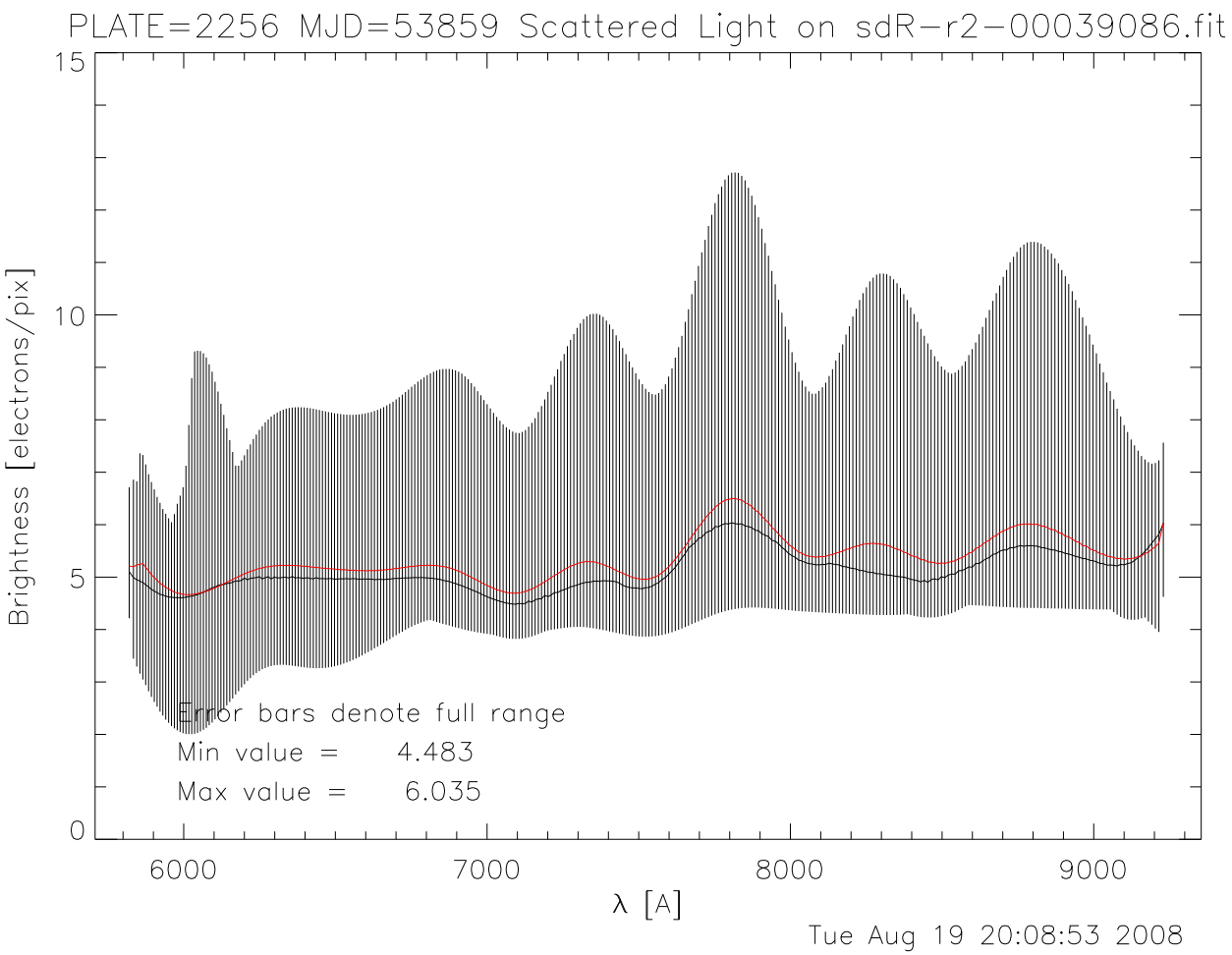

PLATE=2256 MJD=53859 Arcline Fit for sdR-r2-00039085.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Tue Aug 19 20:00:04 2008

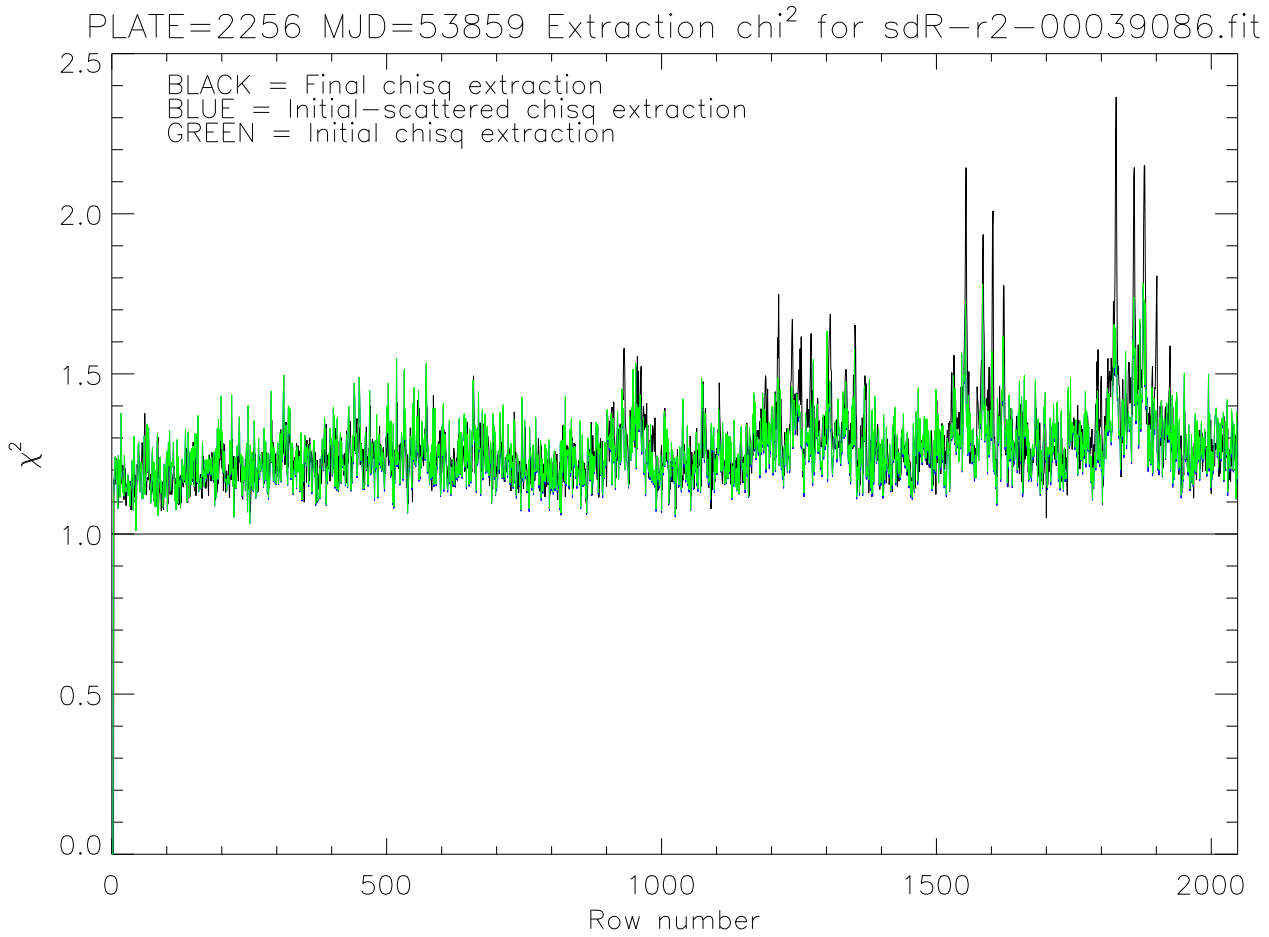

PLATE=2256 MJD=53859 Fiber−Flats for sdR−r2−00039084.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.684
Max value = 1.307
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Tue Aug 19 20:01:02 2008

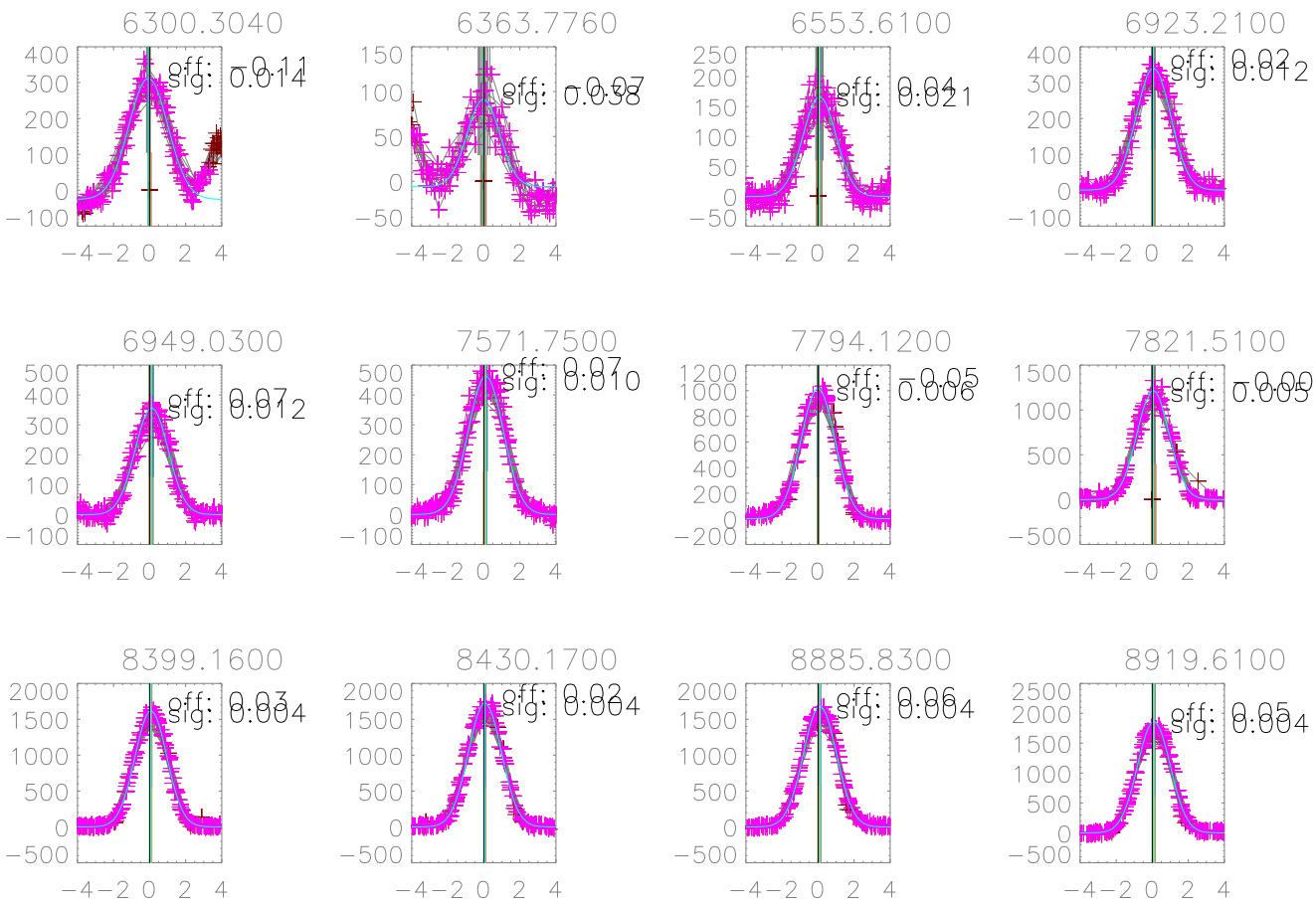

PLATE=2256 MJD=53859 Scattered Light before halo removal on sdR-r2-00039086.fi
15.91
11.36
6.82
0
2000
1500
1000
500
0
Y [pix]
X [pix]

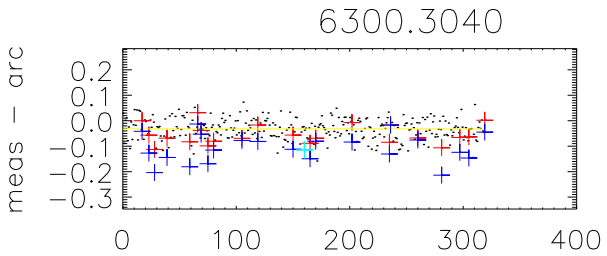

PLATE=2256 MJD=53859 Scattered Light before halo removal on sdR-r2-00039086.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.346
Max value = 18.548
Tue Aug 19 20:02:35 2008

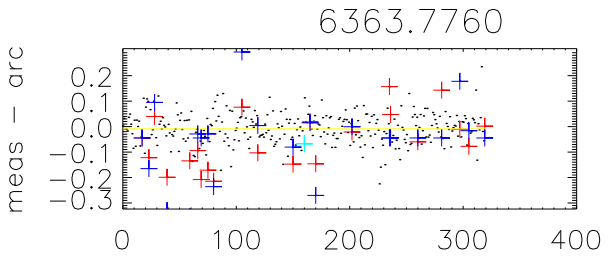

PLATE=2256 MJD=53859 Scattered Light on sdR-r2-00039086.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
5.3
7.5

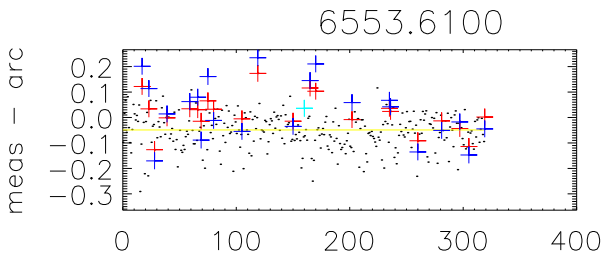

PLATE=2256 MJD=53859 Scattered Light on sdR-r2-00039086.fit
Brightness [electrons/pix]
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 4.483
Max value = 6.035
Tue Aug 19 20:08:53 2008

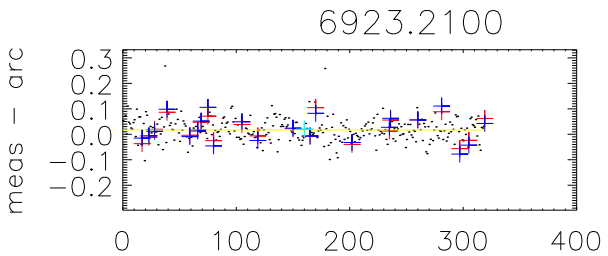

PLATE=2256 MJD=53859 Extraction chi$^2$ for sdR−r2−00039086.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
$\chi^2$
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

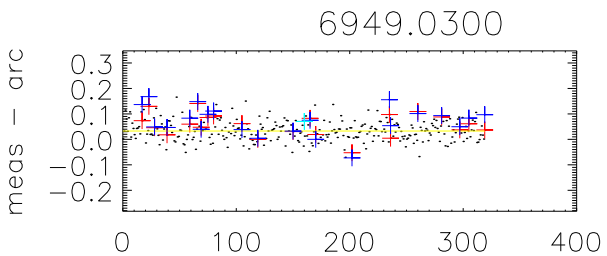

6300.3040
off: −0.11
sig: 0.014
6363.7760
off: −0.07
sig: 0.038
6553.6100
off: 0.04
sig: 0.021
6923.2100
off: 0.02
sig: 0.012
6949.0300
off: 0.07
sig: 0.012
7571.7500
off: 0.07
sig: 0.010
7794.1200
off: −0.05
sig: 0.006
7821.5100
off: −0.00
sig: 0.005
8399.1600
off: 0.03
sig: 0.004
8430.1700
off: 0.02
sig: 0.004
8885.8300
off: 0.06
sig: 0.004
8919.6100
off: 0.05
sig: 0.004

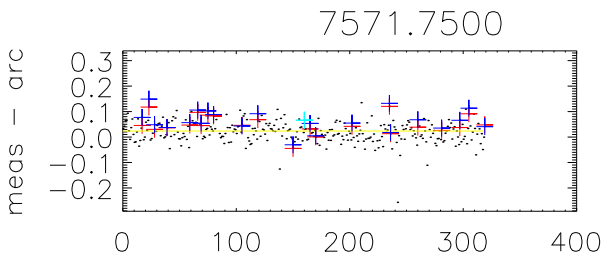

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

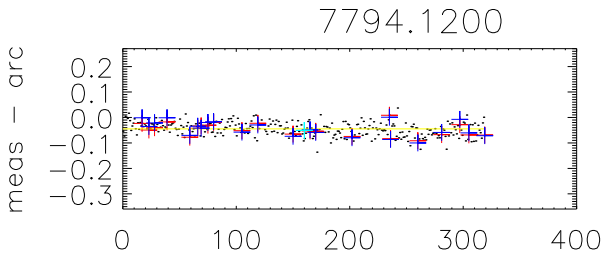

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

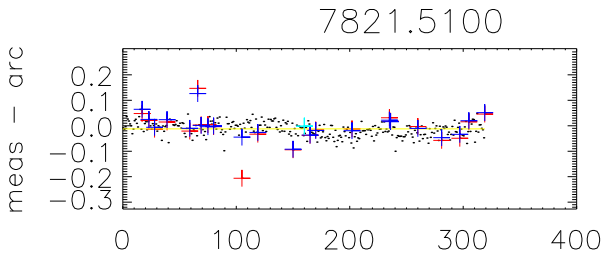

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

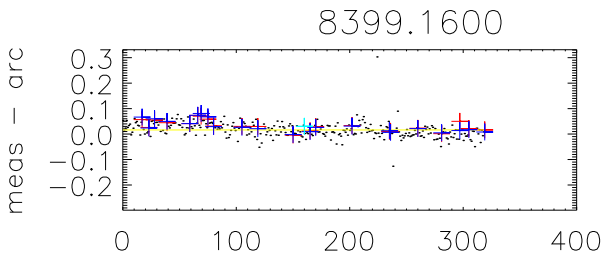

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

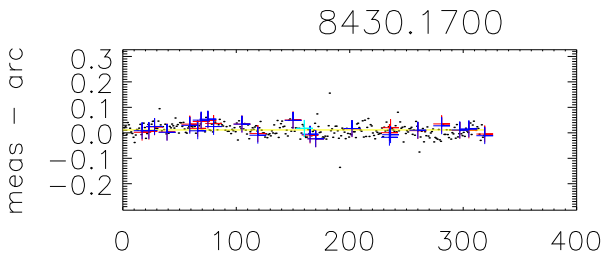

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

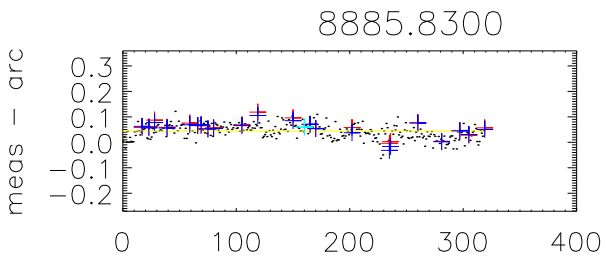

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

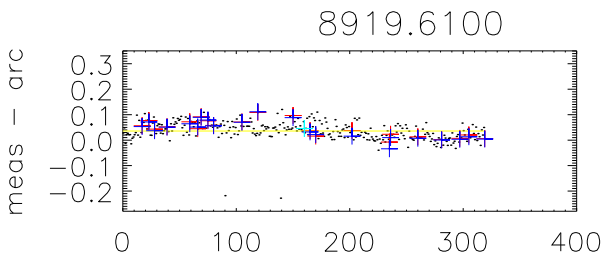

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

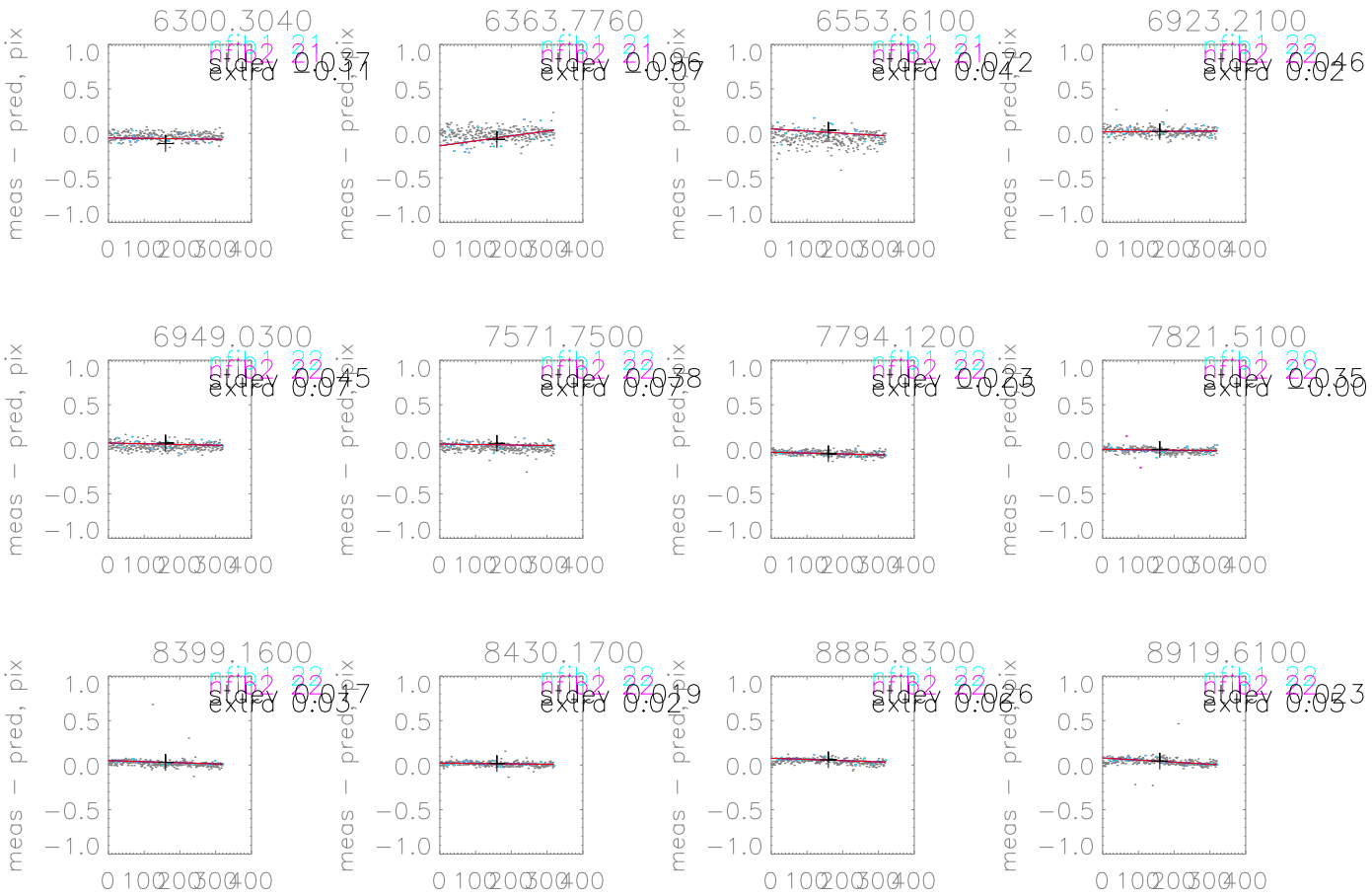

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

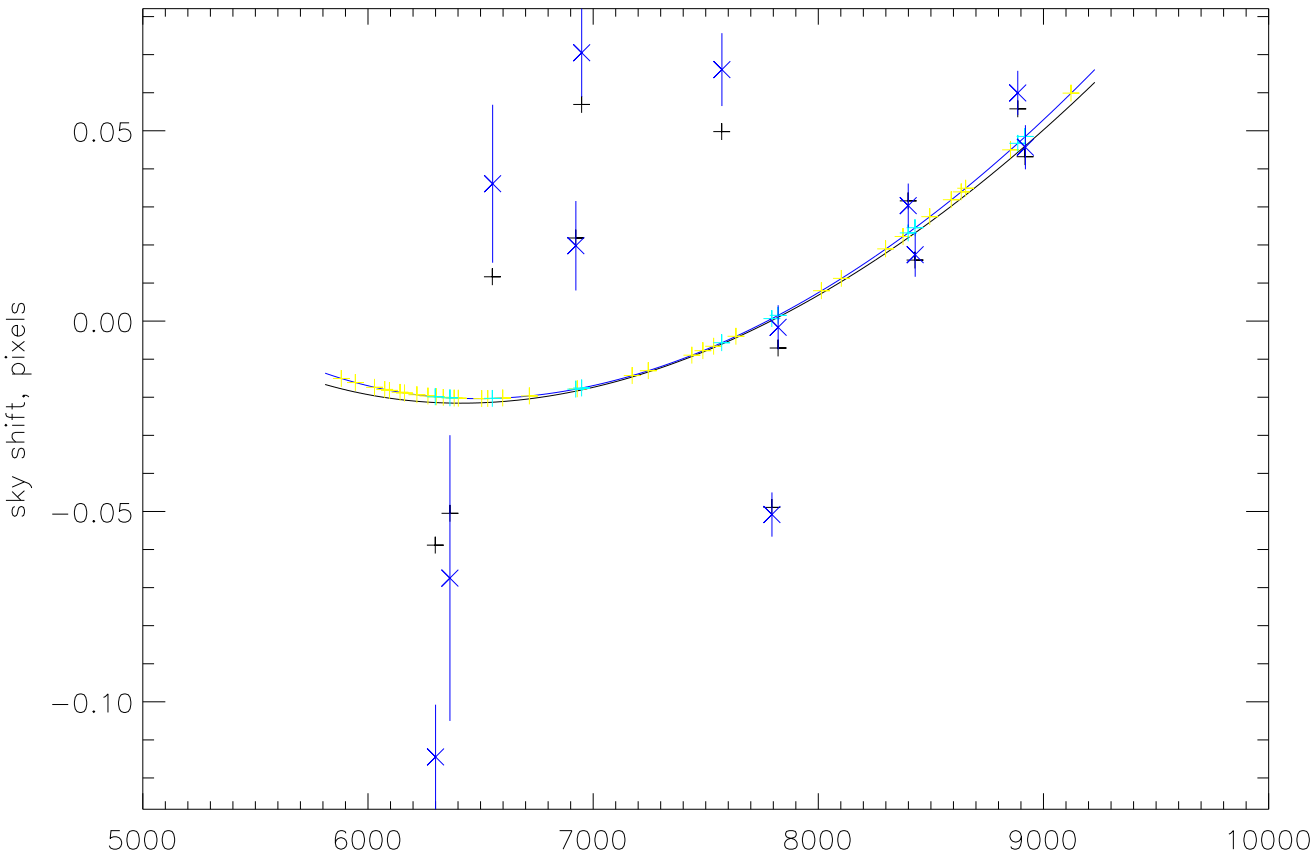

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

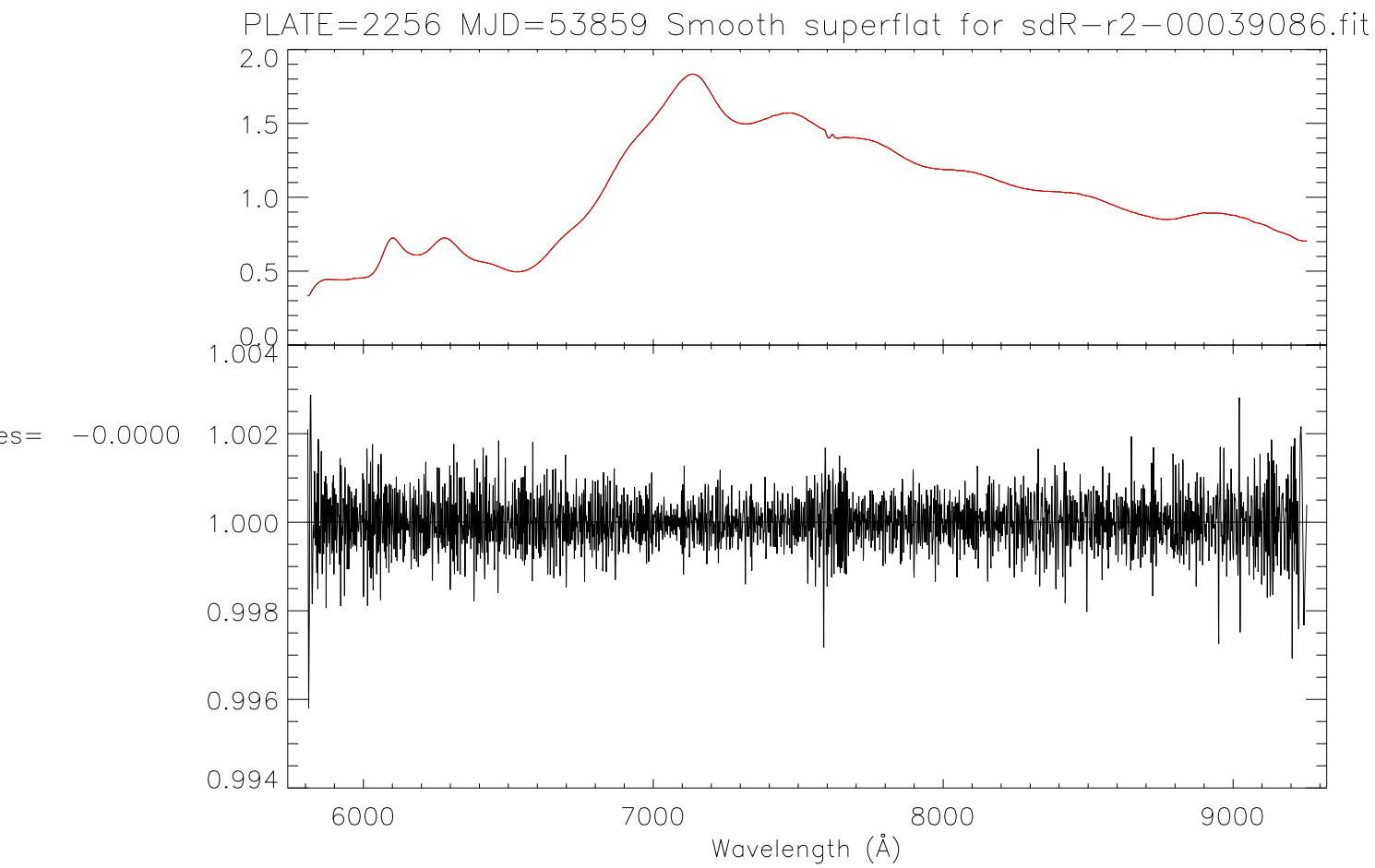

8430.1700
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

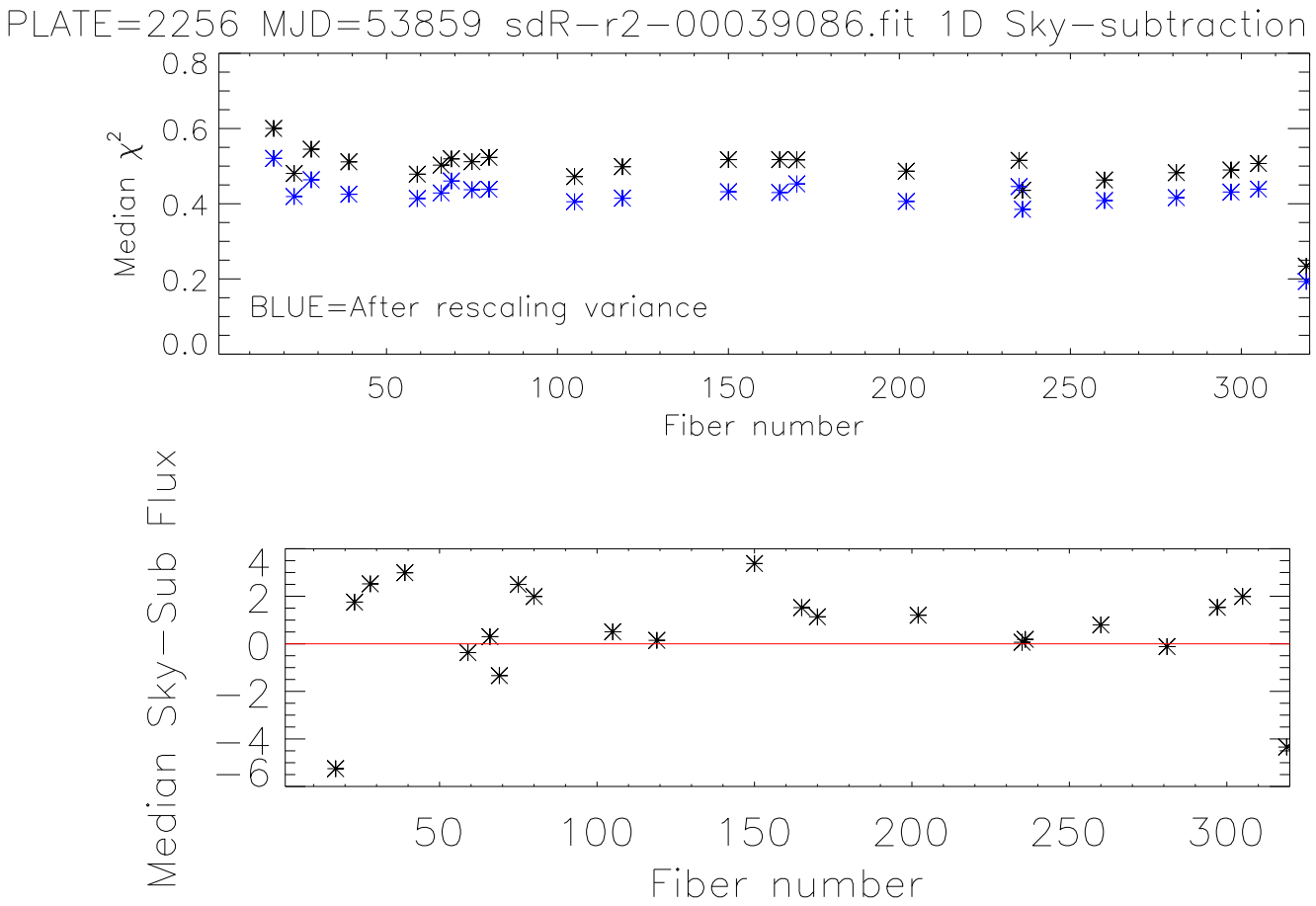

8885.8300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

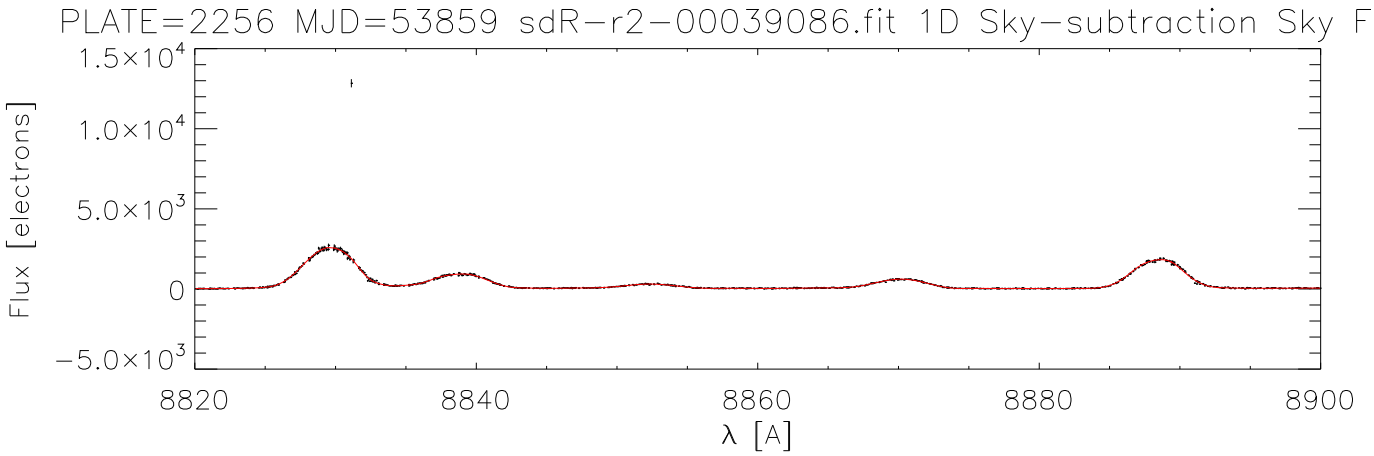

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

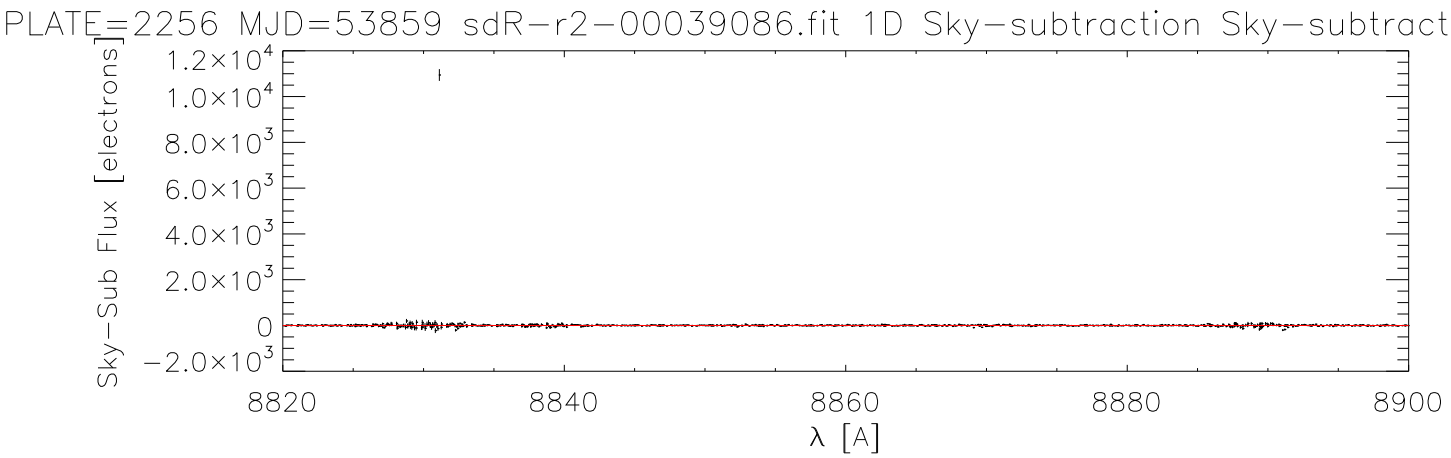

6300.3040
mfib1 21
mfib2 21
stdev 0.037
extra −0.11
6363.7760
mfib1 21
mfib2 21
stdev 0.086
extra −0.07
6553.6100
mfib1 21
mfib2 21
stdev 0.072
extra 0.04
6923.2100
mfib1 22
mfib2 22
stdev 0.046
extra 0.02
6949.0300
mfib1 22
mfib2 22
stdev 0.045
extra 0.07
7571.7500
mfib1 22
mfib2 22
stdev 0.038
extra 0.07
7794.1200
mfib1 22
mfib2 22
stdev 0.033
extra −0.05
7821.5100
mfib1 20
mfib2 20
stdev 0.035
extra −0.00
8399.1600
mfib1 22
mfib2 22
stdev 0.017
extra 0.03
8430.1700
mfib1 22
mfib2 22
stdev 0.019
extra 0.02
8885.8300
mfib1 22
mfib2 22
stdev 0.026
extra 0.06
8919.6100
mfib1 22
mfib2 22
stdev 0.023
extra 0.03
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

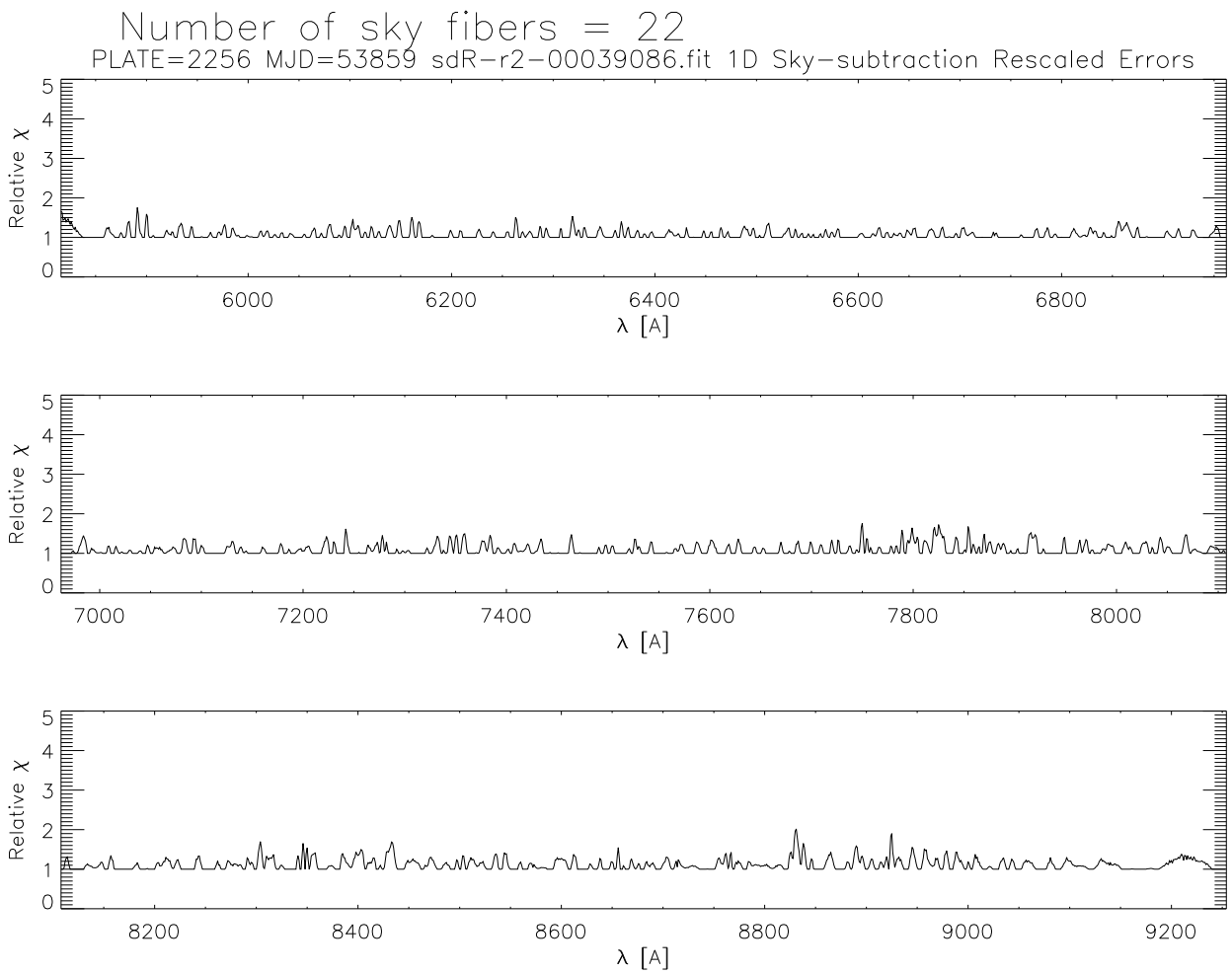

sky shift, pixels
0.05
0.00
−0.05
−0.10
5000
6000
7000
8000
9000
10000

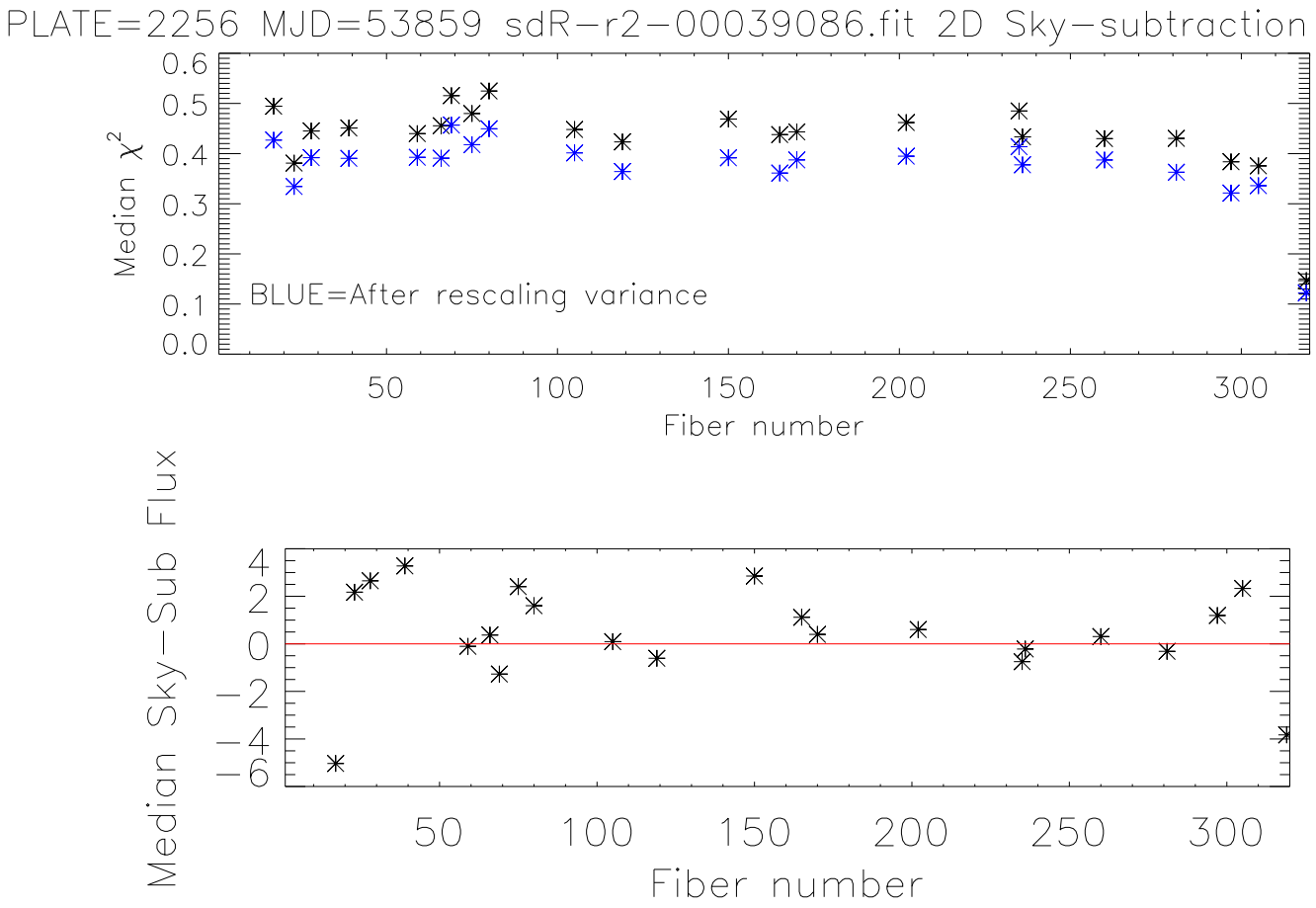

PLATE=2256 MJD=53859 Smooth superflat for sdR-r2-00039086.fit
2.0
1.5
1.0
0.5
0.0
1.004
1.002
1.000
0.998
0.996
0.994
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

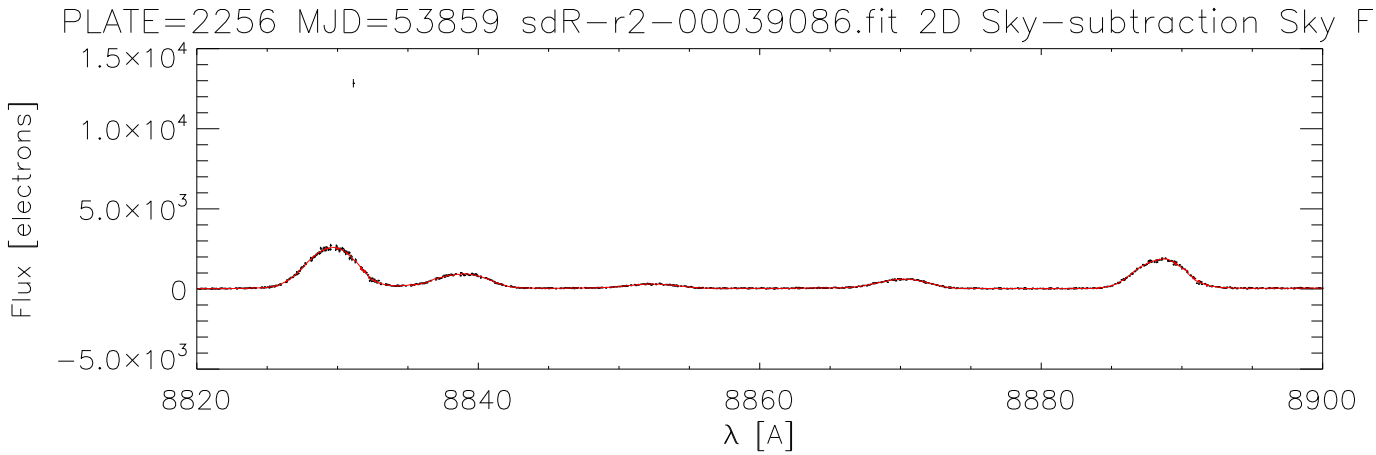

PLATE=2256 MJD=53859 sdR-r2-00039086.fit 1D Sky-subtraction Sky Fibers
Median $\chi^2$
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
50
100
150
200
250
300
Fiber number

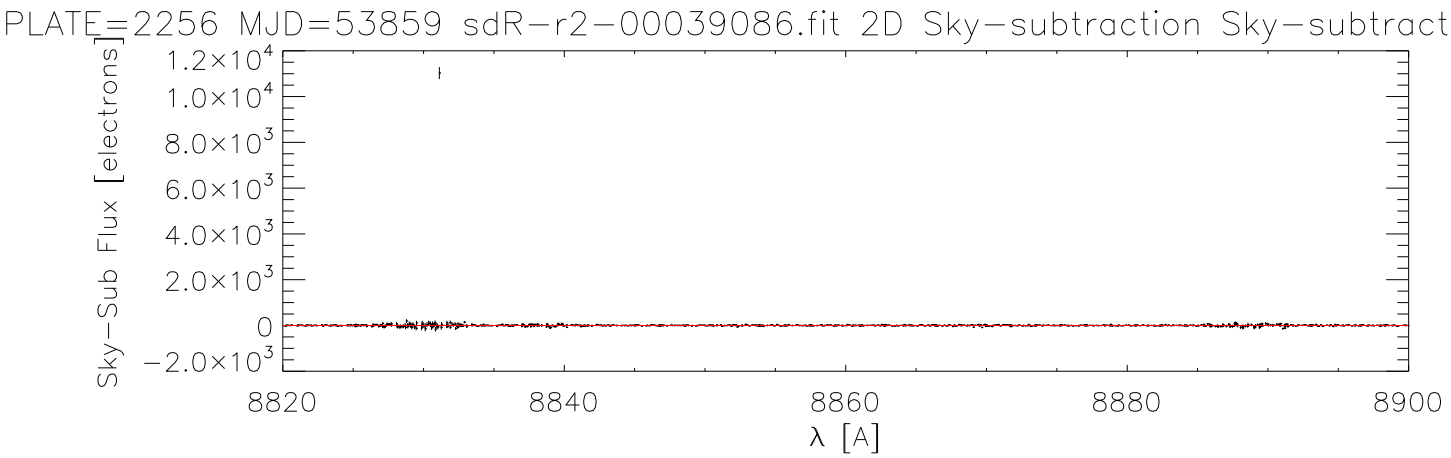

PLATE=2256 MJD=53859 sdR-r2-00039086.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1.5×10^4
1.0×10^4
5.0×10^3
0
−5.0×10^3
8820
8840
8860
8880
8900
λ [A]

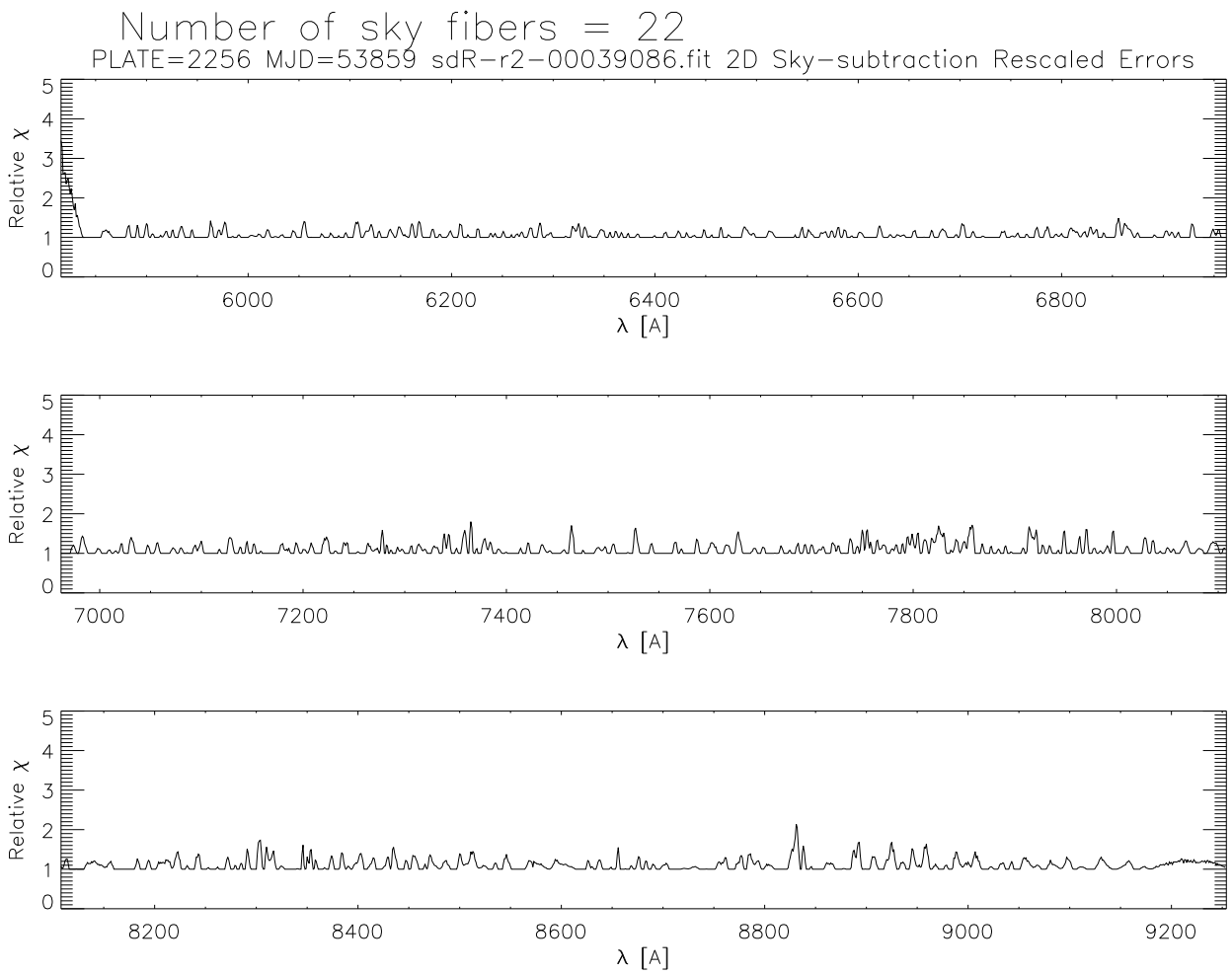

PLATE=2256 MJD=53859 sdR-r2-00039086.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1.2×10^4
1.0×10^4
8.0×10^3
6.0×10^3
4.0×10^3
2.0×10^3
0
−2.0×10^3
8820
8840
8860
8880
8900
λ [A]

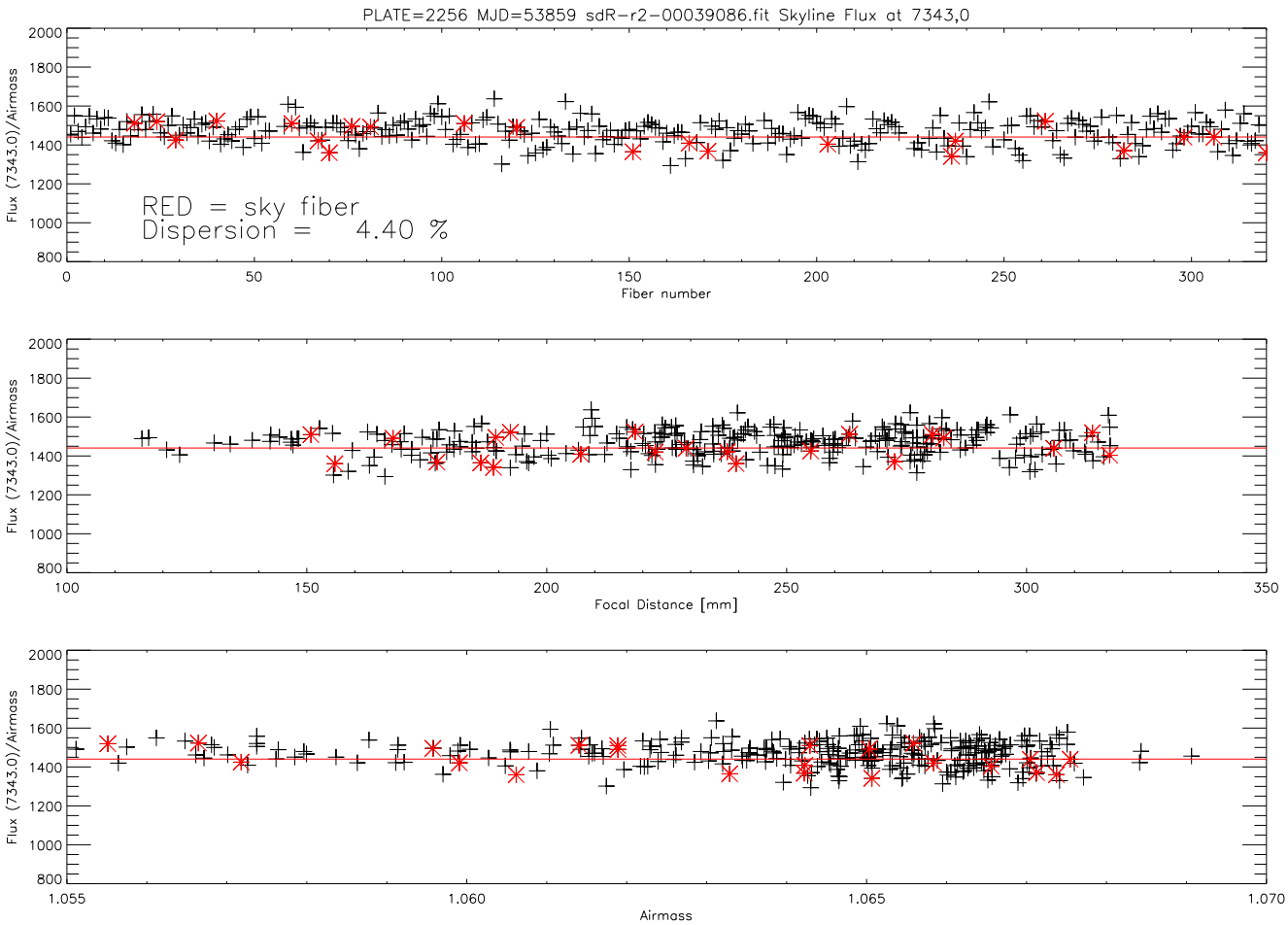

Number of sky fibers = 22
PLATE=2256 MJD=53859 sdR-r2-00039086.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

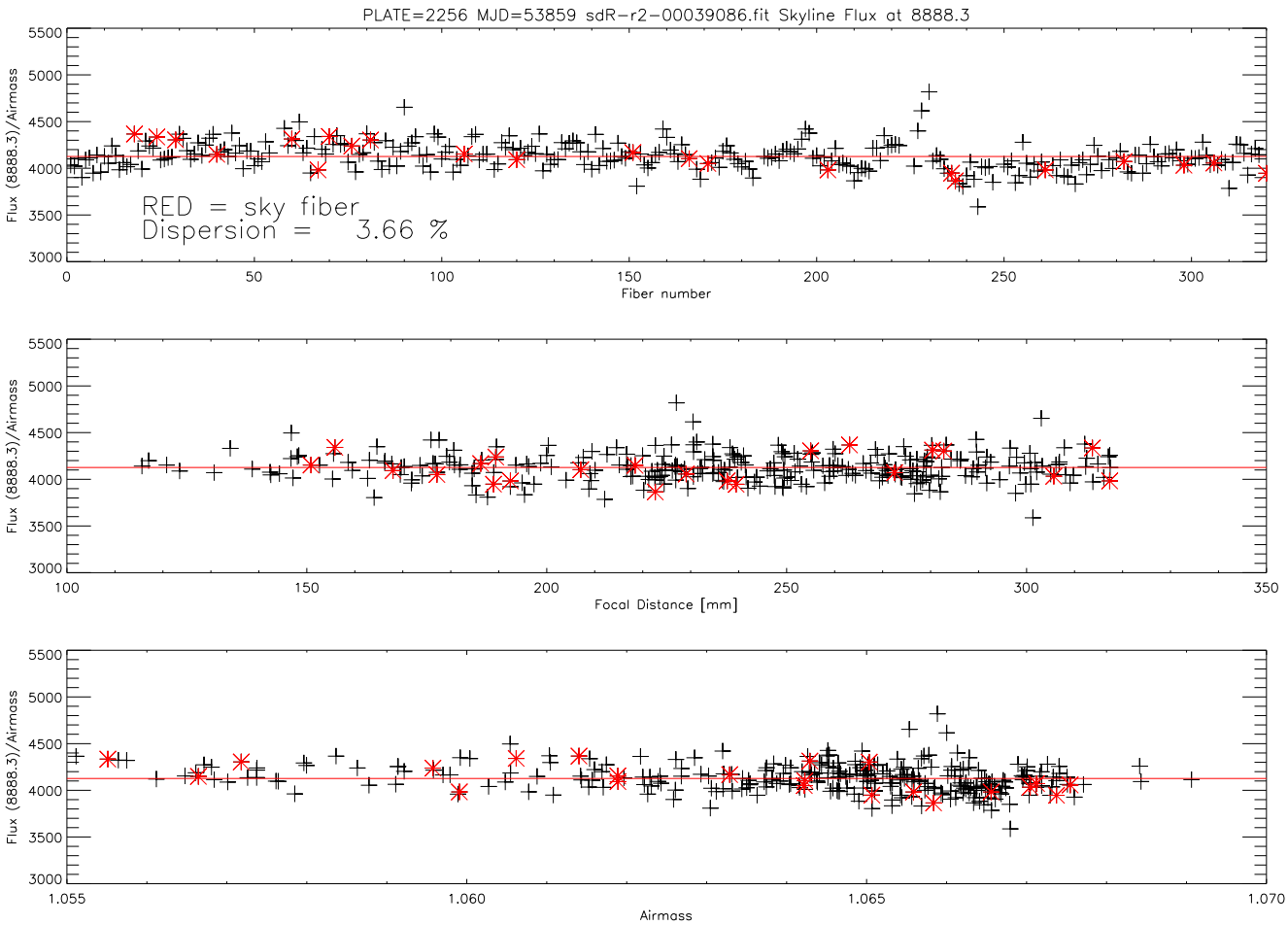

PLATE=2256 MJD=53859 sdR-r2-00039086.fit 2D Sky-subtraction Sky Fibers
Median $\chi^2$
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

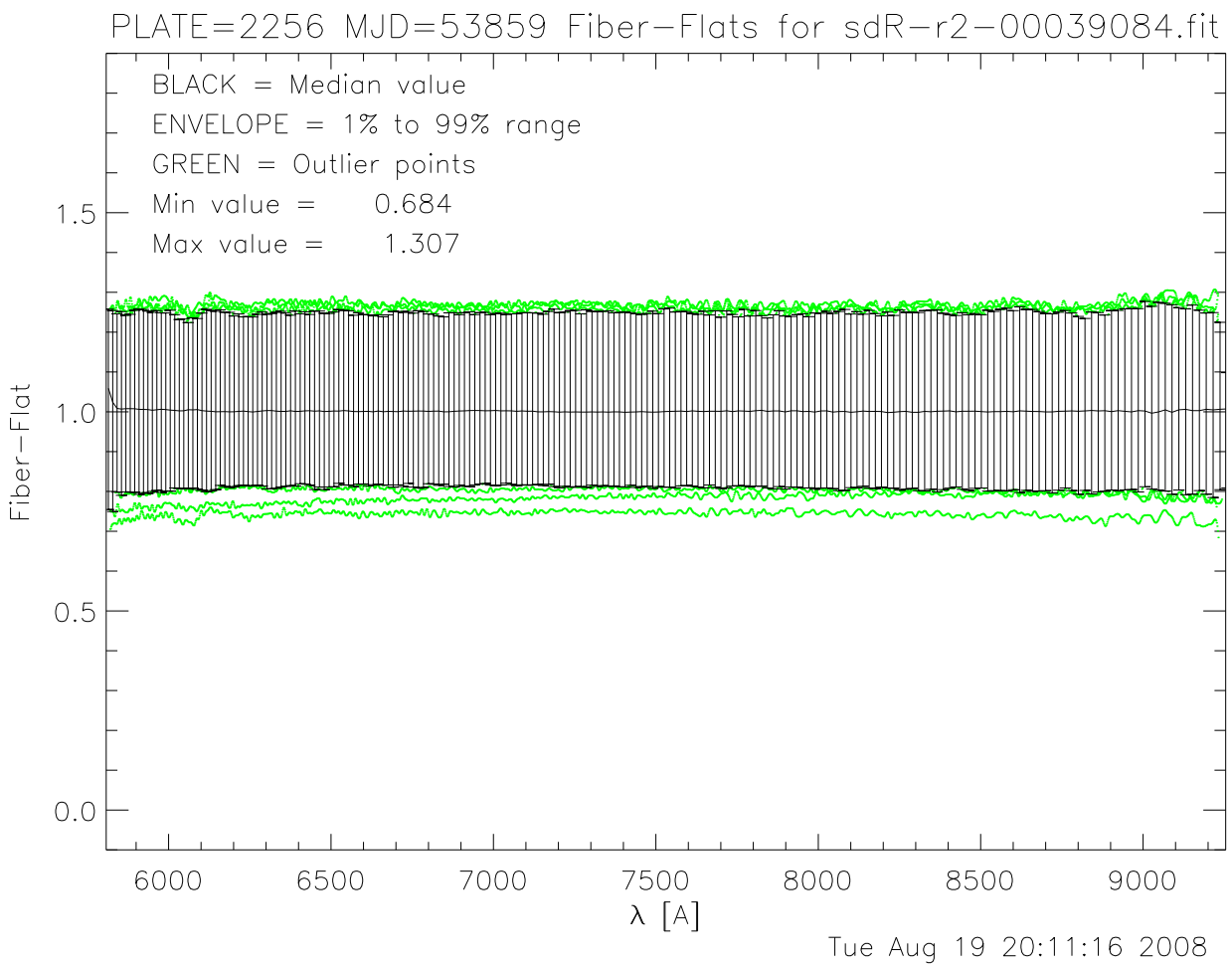

PLATE=2256 MJD=53859 sdR-r2-00039086.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1.5×10^4
1.0×10^4
5.0×10^3
0
−5.0×10^3
8820
8840
8860
8880
8900
λ [A]

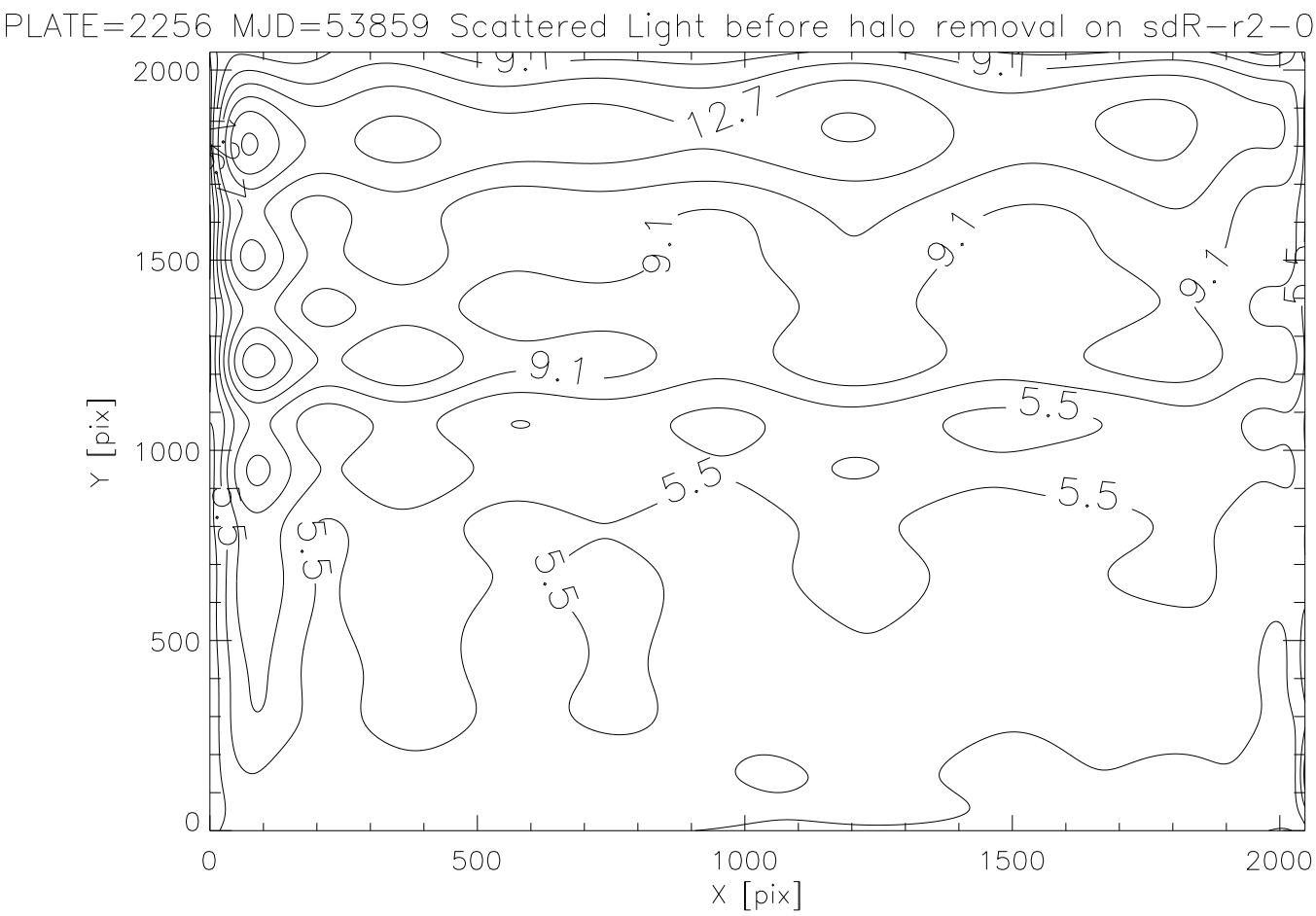

PLATE=2256 MJD=53859 sdR-r2-00039086.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1.2×10^4
1.0×10^4
8.0×10^3
6.0×10^3
4.0×10^3
2.0×10^3
0
−2.0×10^3
8820
8840
8860
8880
8900
λ [A]

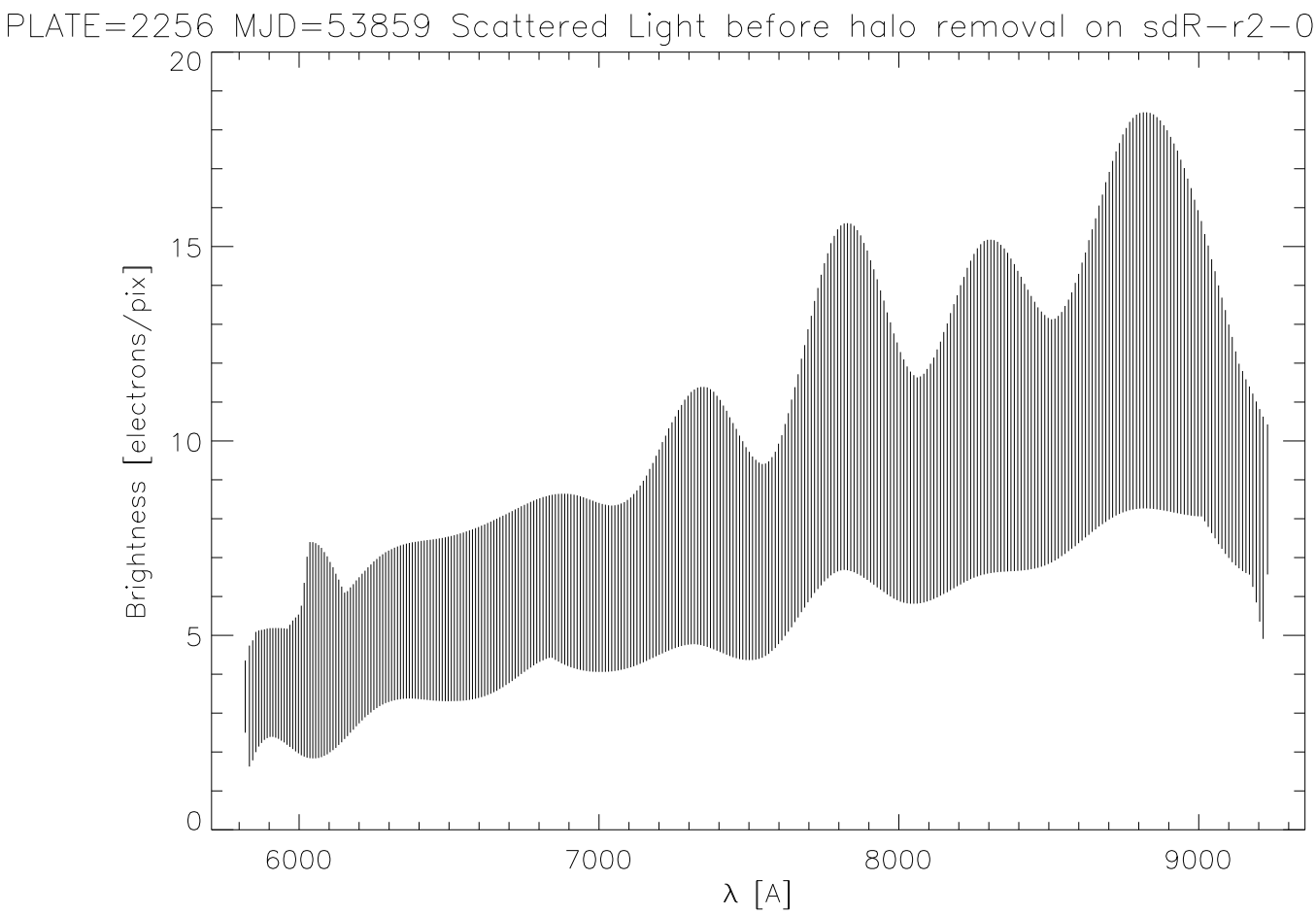

Number of sky fibers = 22
PLATE=2256 MJD=53859 sdR-r2-00039086.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200


PLATE=2256 MJD=53859 sdR-r2-00039086.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 4.40 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass


PLATE=2256 MJD=53859 sdR-r2-00039086.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.66 %
Fiber number
Focal Distance [mm]
Airmass


PLATE=2256 MJD=53859 Fiber−Flats for sdR−r2−00039084.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.684
Max value = 1.307
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Tue Aug 19 20:11:16 2008


PLATE=2256 MJD=53859 Scattered Light before halo removal on sdR-r2-00039087.fi
9.1
12.7
5.5
Y [pix]
X [pix]
0
500
1000
1500
2000


PLATE=2256 MJD=53859 Scattered Light before halo removal on sdR−r2−00039087.fi
Brightness [electrons/pix]
λ [A]
0
5
10
15
20
6000
7000
8000
9000