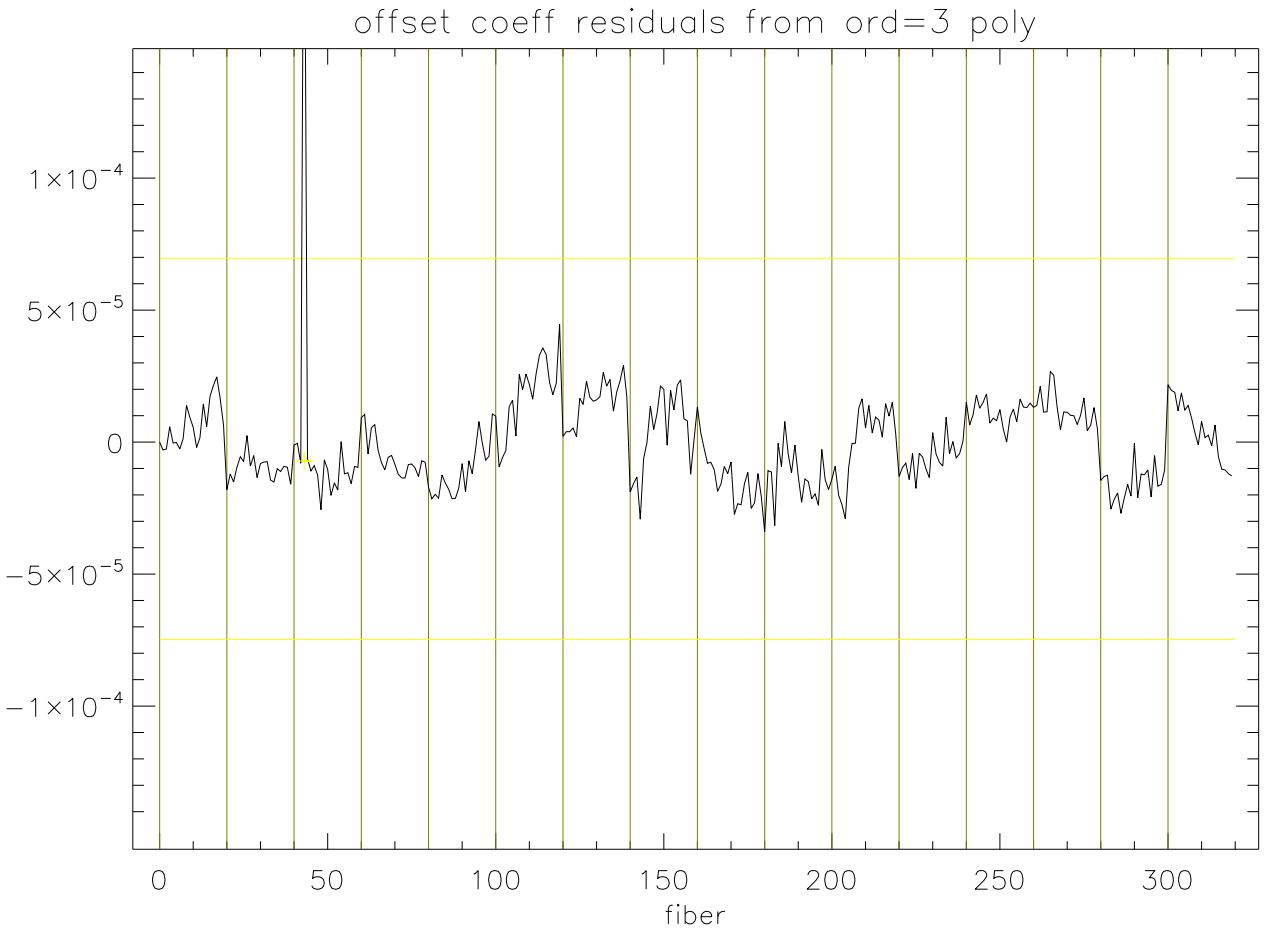
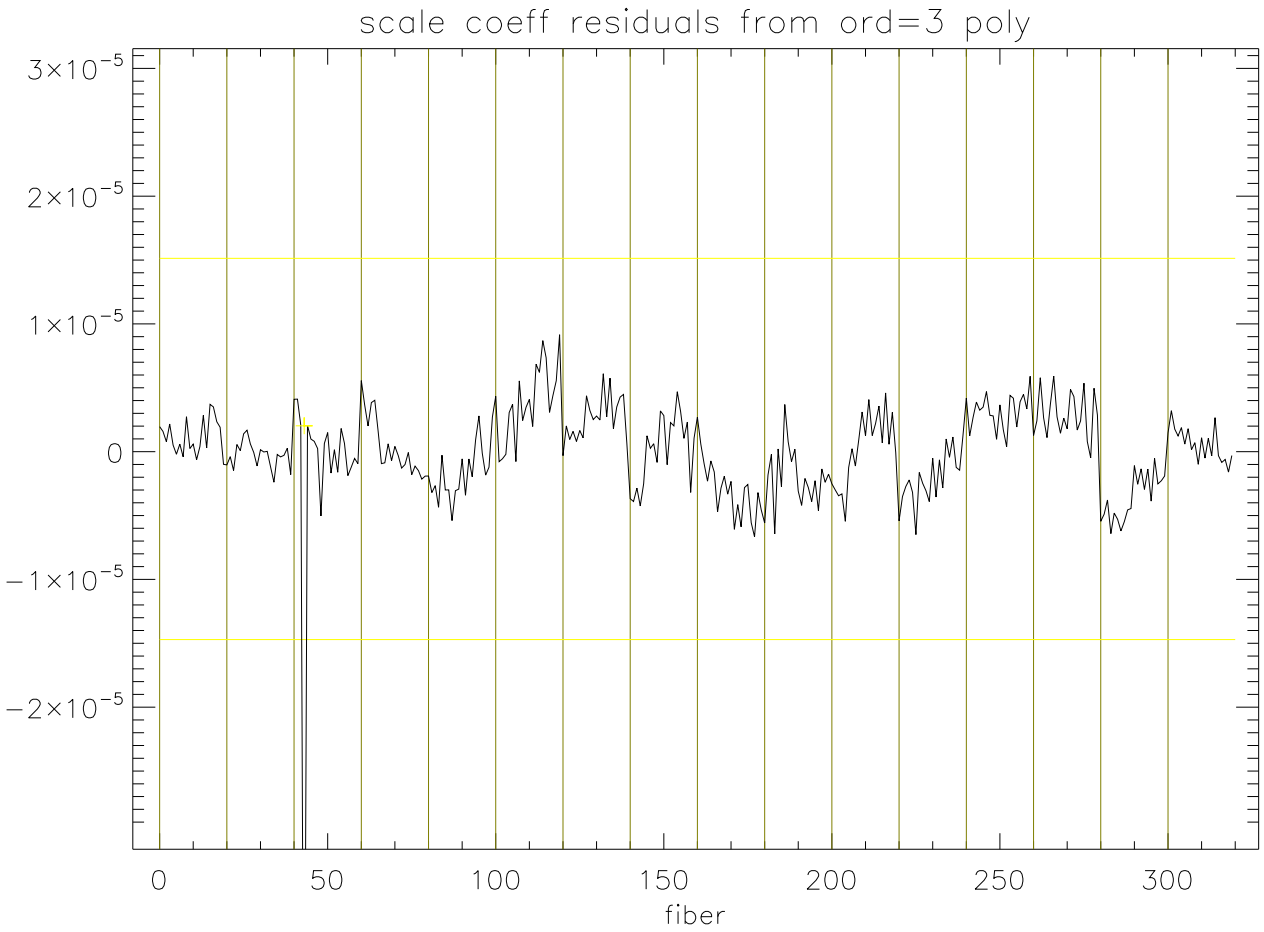
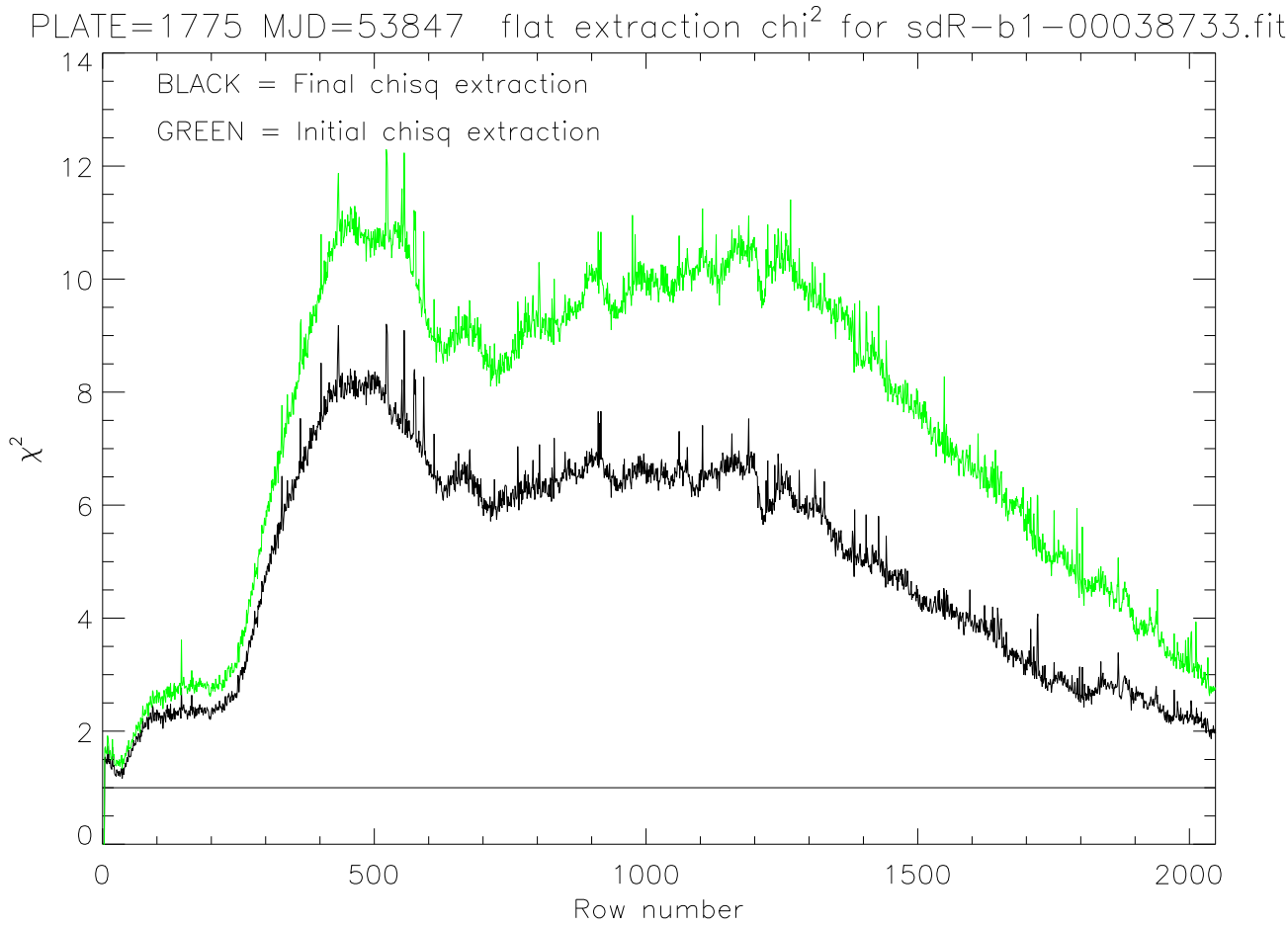
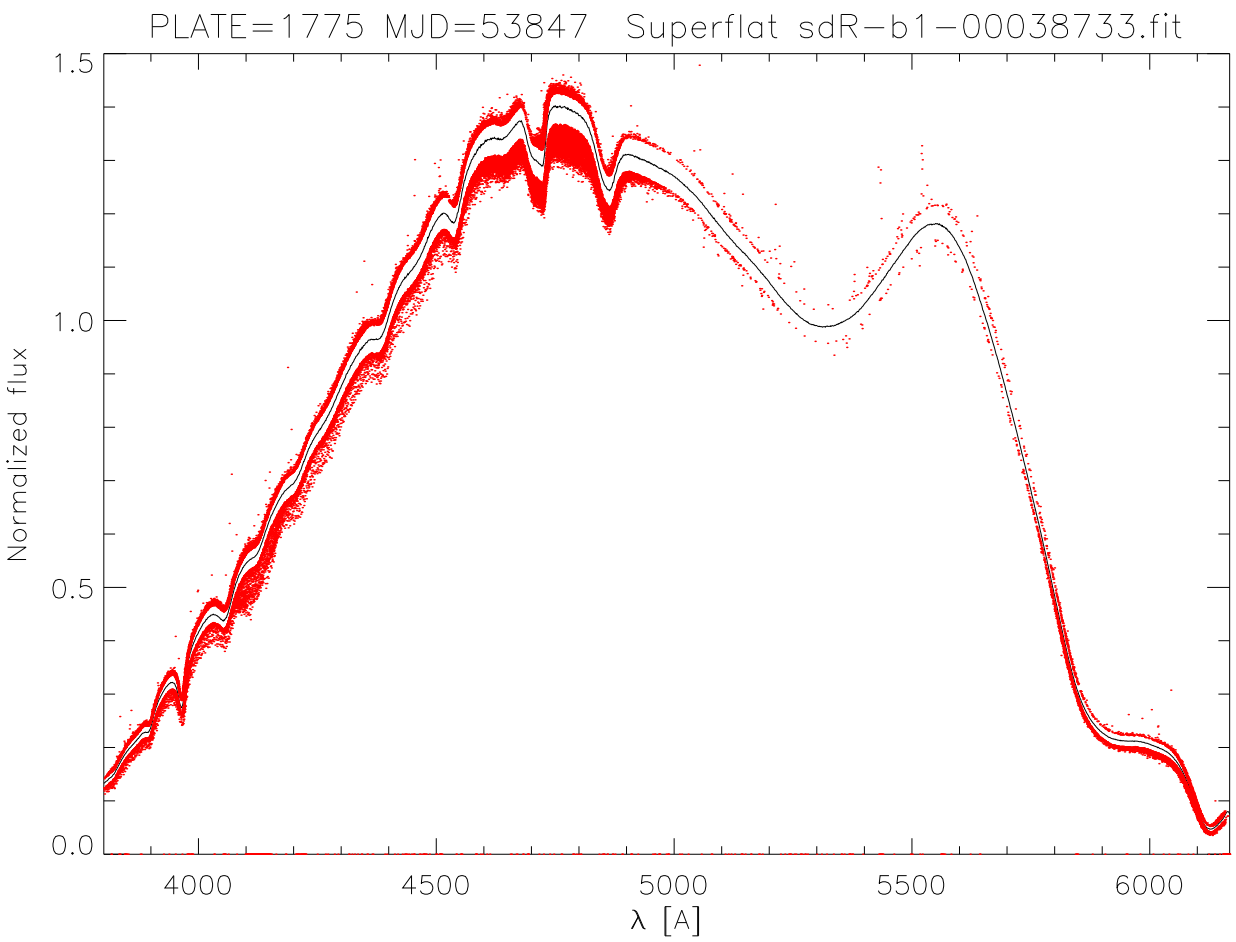
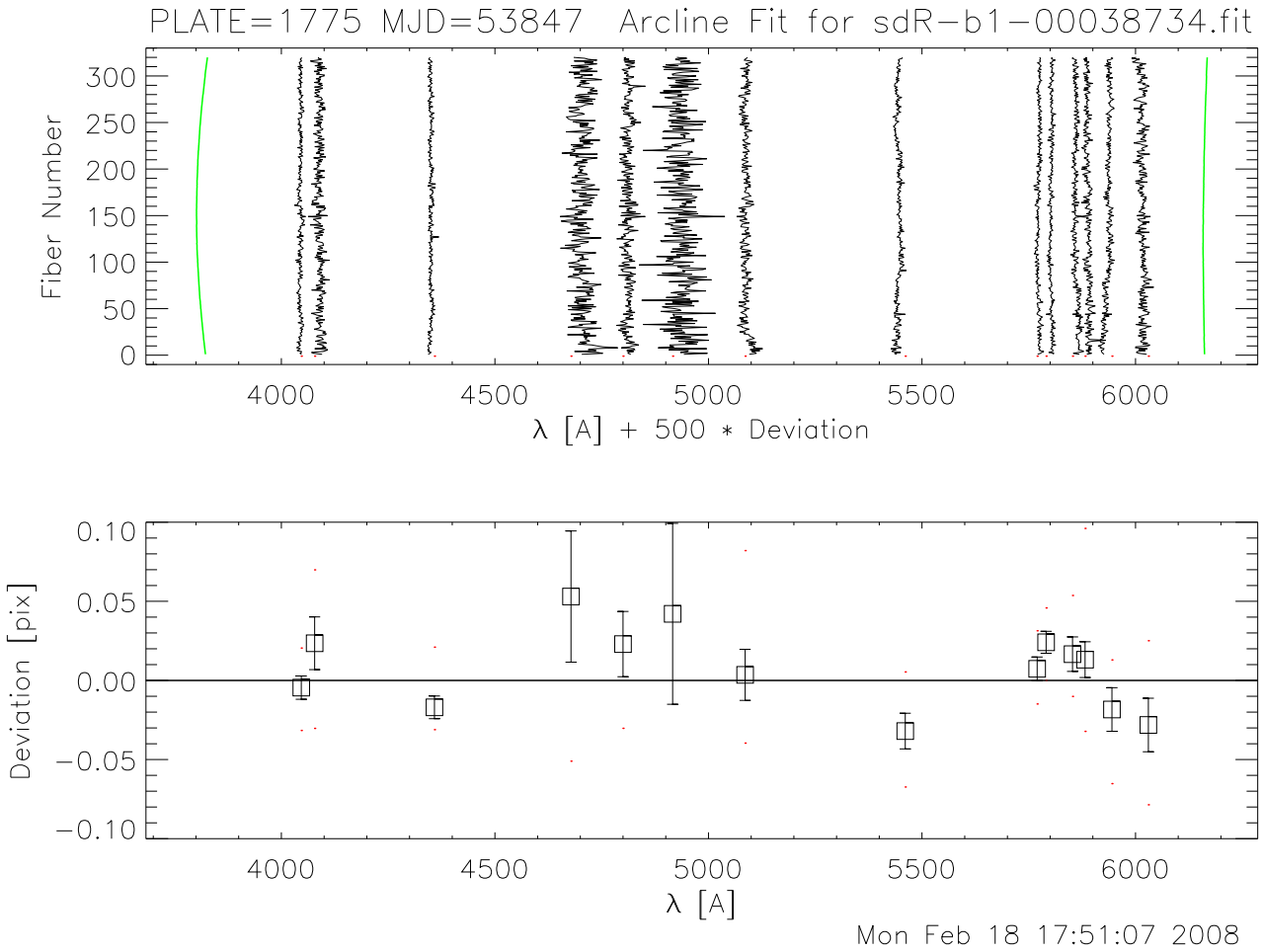
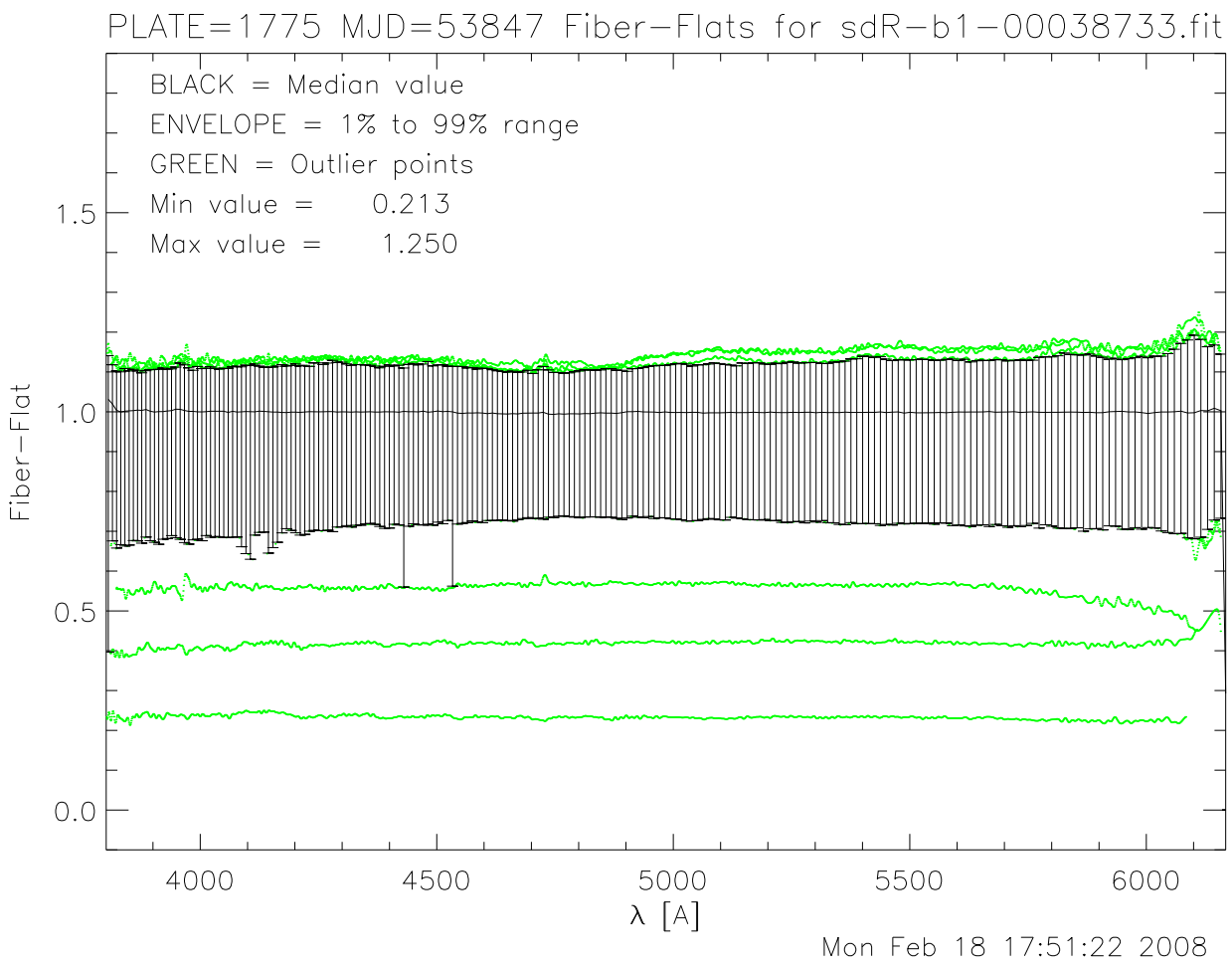

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

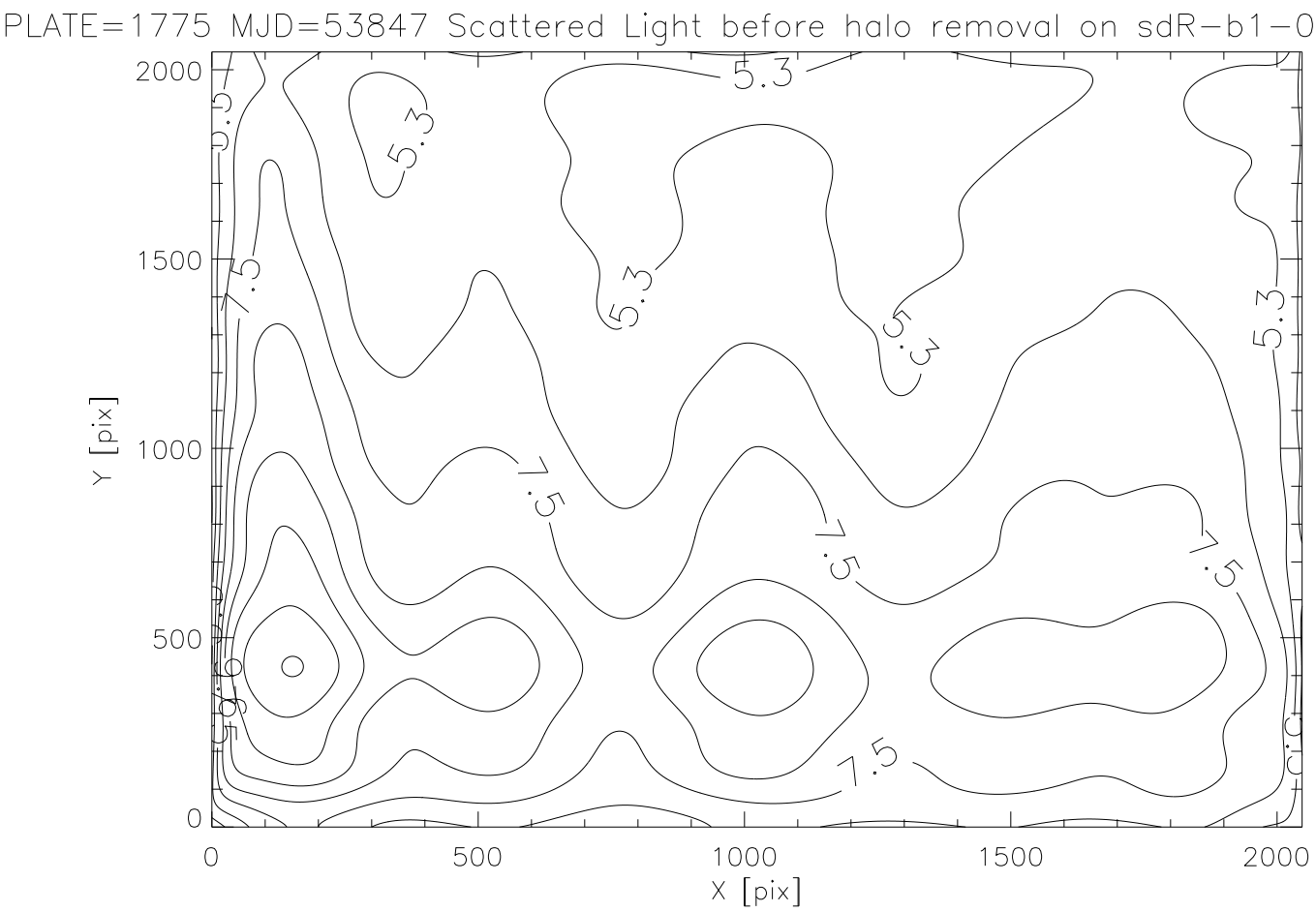

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

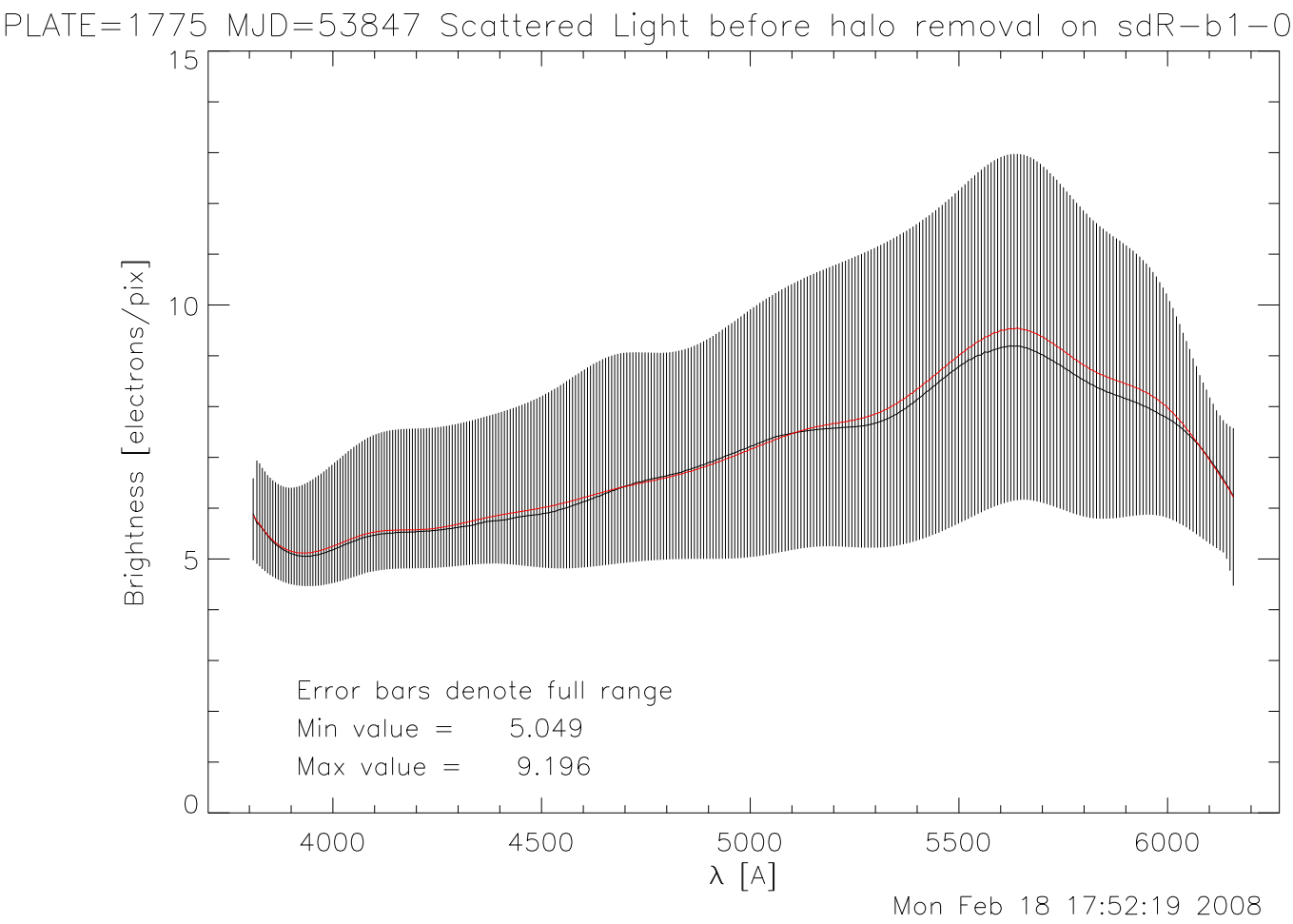

PLATE=1775 MJD=53847 flat extraction chi^2 for sdR−b1−00038733.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
14
0
500
1000
1500
2000

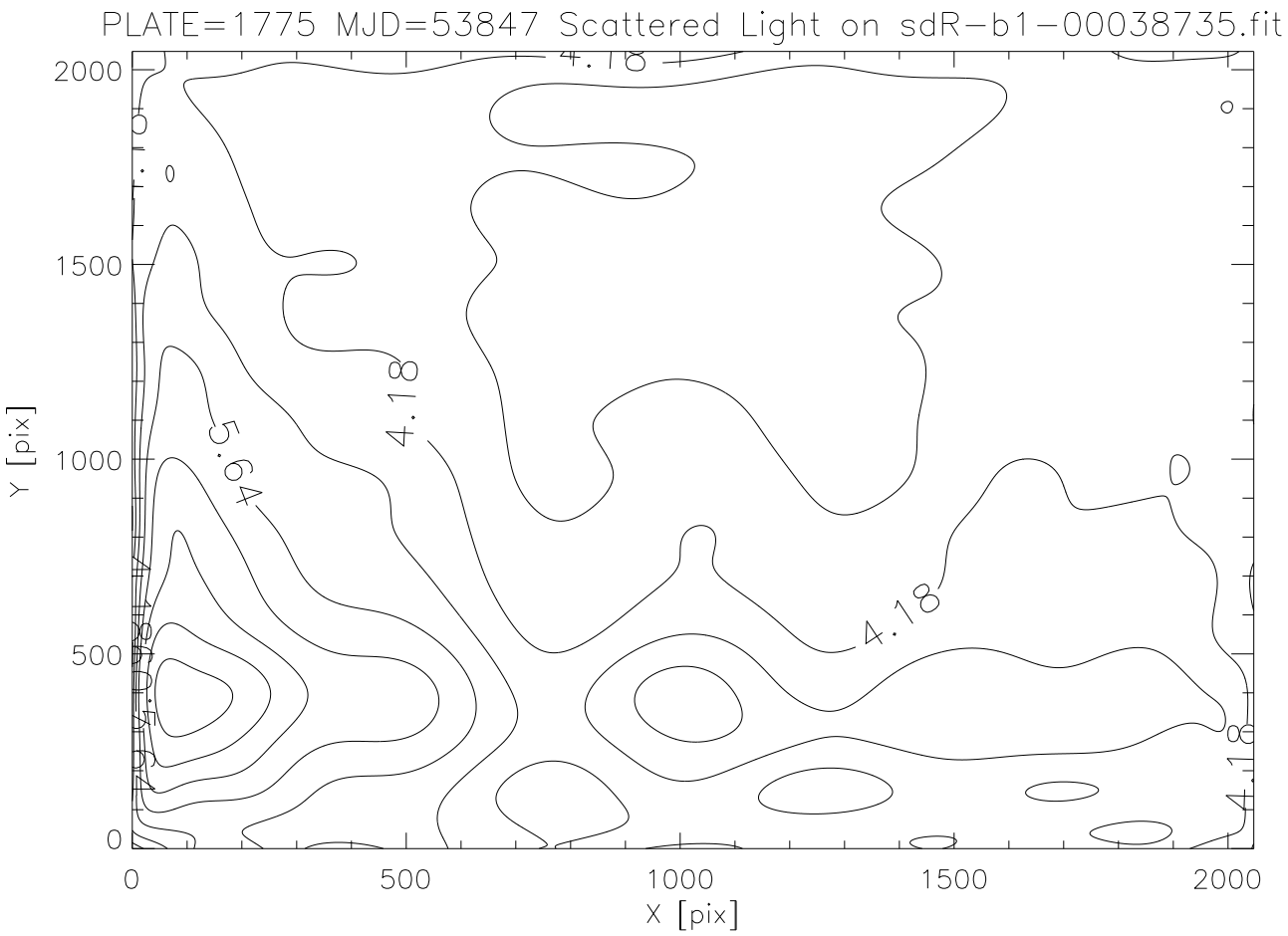

PLATE=1775 MJD=53847 Superflat sdR-b1-00038733.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

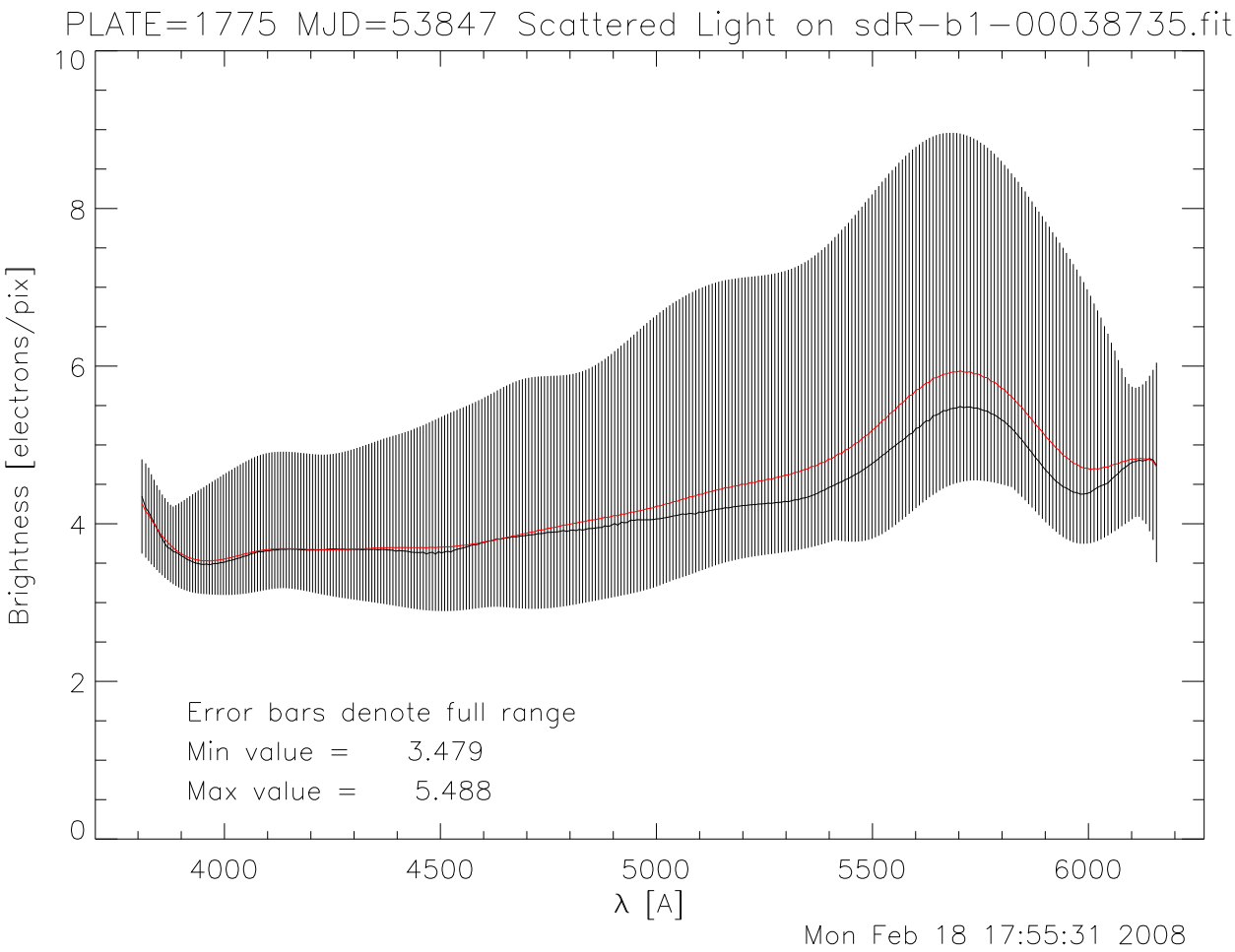

PLATE=1775 MJD=53847 Arcline Fit for sdR-b1-00038734.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Mon Feb 18 17:51:07 2008

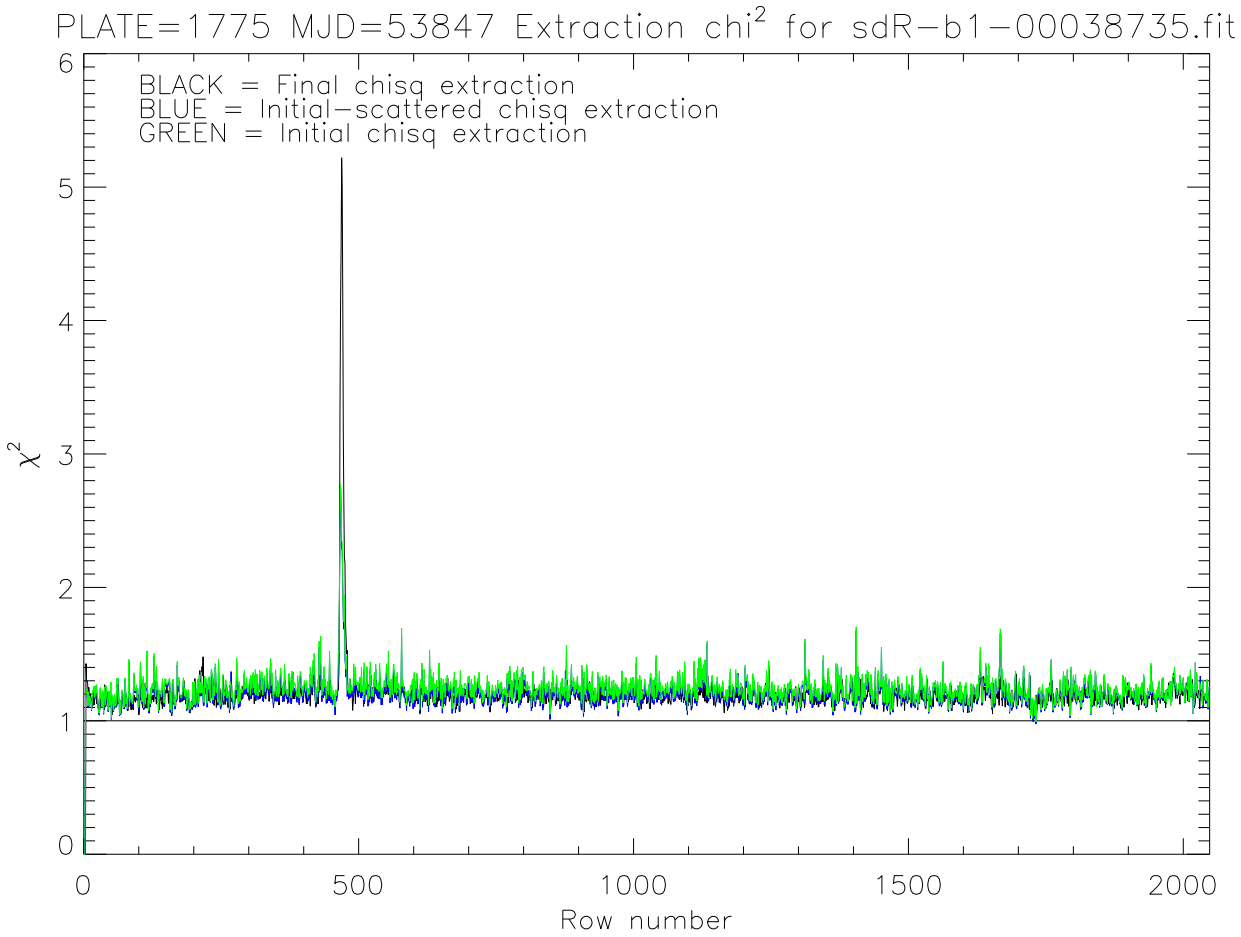

PLATE=1775 MJD=53847 Fiber-Flats for sdR-b1-00038733.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.213
Max value = 1.250
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 18 17:51:22 2008

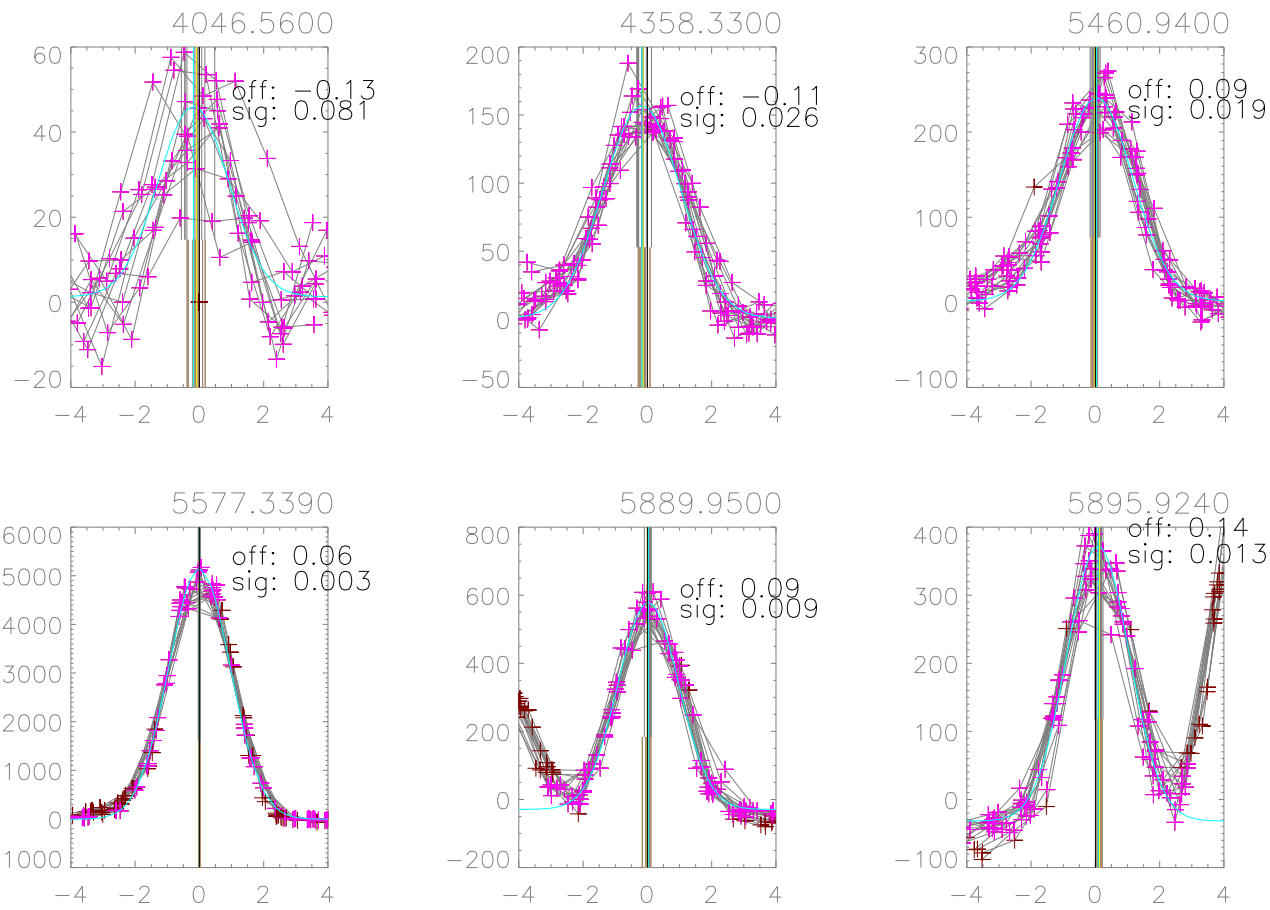

PLATE=1775 MJD=53847 Scattered Light before halo removal on sdR−b1−00038735.f
5.3
7.5
Y [pix]
X [pix]
0
500
1000
1500
2000

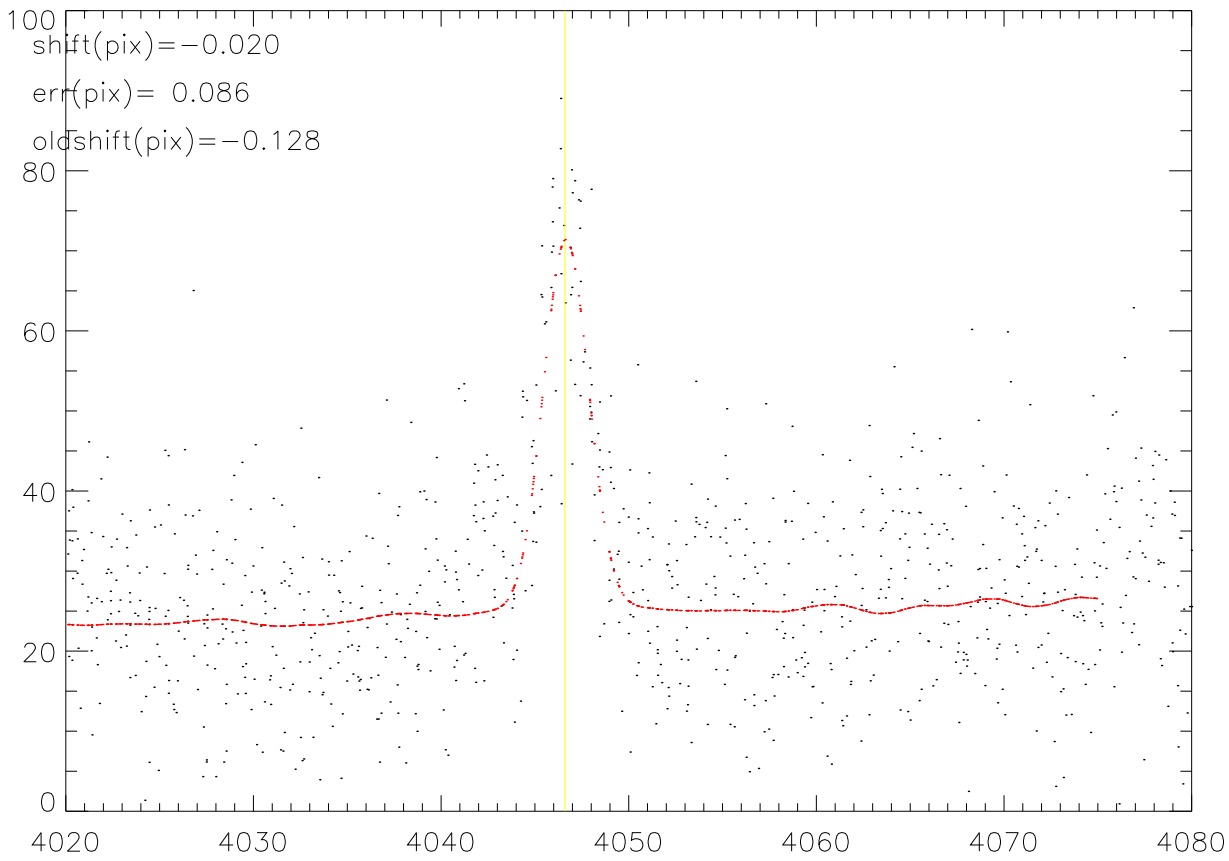

PLATE=1775 MJD=53847 Scattered Light before halo removal on sdR-b1-00038735.f
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 5.049
Max value = 9.196
Mon Feb 18 17:52:19 2008

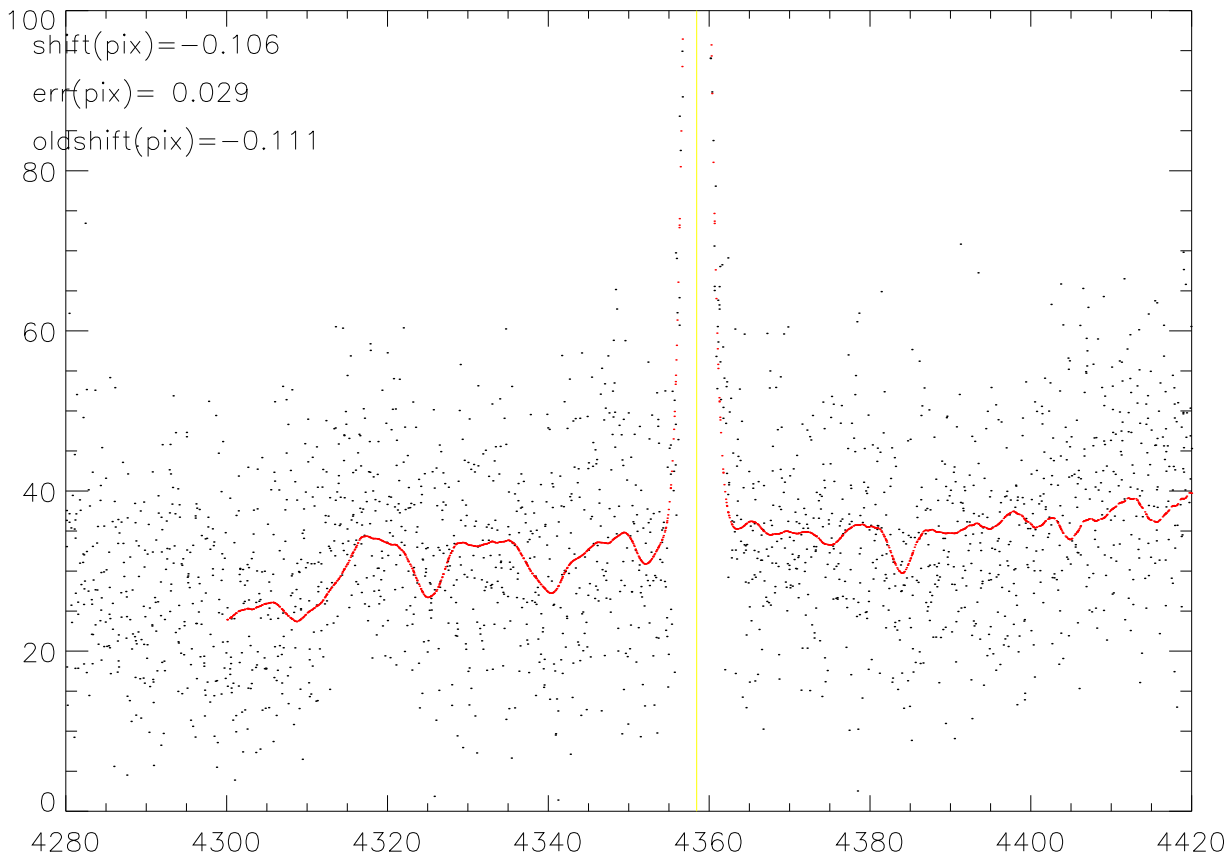

PLATE=1775 MJD=53847 Scattered Light on sdR-b1-00038735.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
4.18
5.64
4.18
0
4.18
4.18

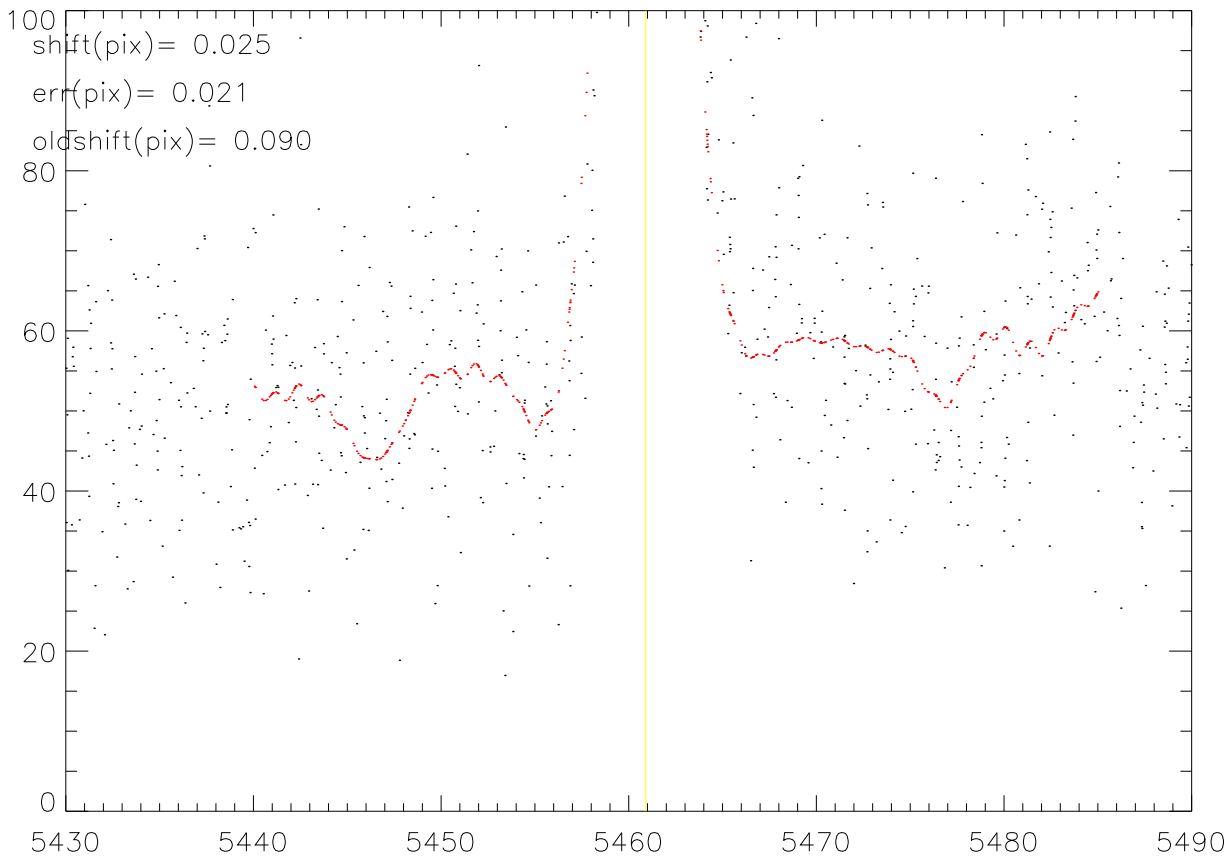

PLATE=1775 MJD=53847 Scattered Light on sdR-b1-00038735.fit
Brightness [electrons/pix]
10
8
6
4
2
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 3.479
Max value = 5.488
Mon Feb 18 17:55:31 2008

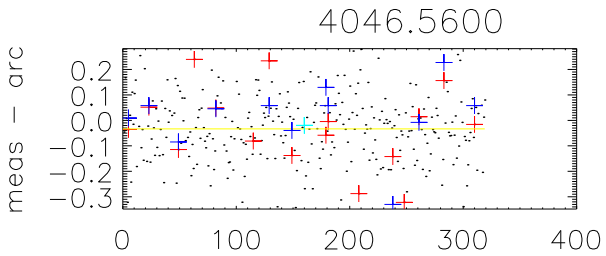

PLATE=1775 MJD=53847 Extraction chi^2 for sdR-b1-00038735.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

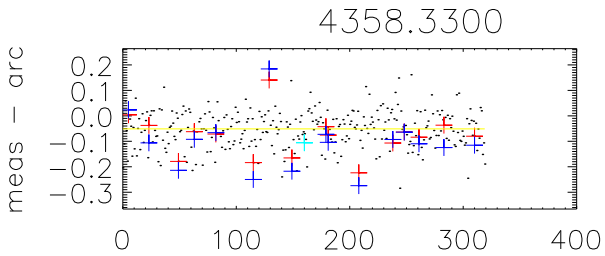

4046.5600
off: −0.13
sig: 0.081
4358.3300
off: −0.11
sig: 0.026
5460.9400
off: 0.09
sig: 0.019
5577.3390
off: 0.06
sig: 0.003
5889.9500
off: 0.09
sig: 0.009
5895.9240
off: 0.14
sig: 0.013

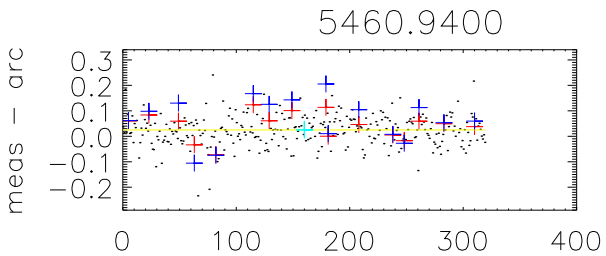

shift(pix)=−0.020
err(pix)= 0.086
oldshift(pix)=−0.128
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

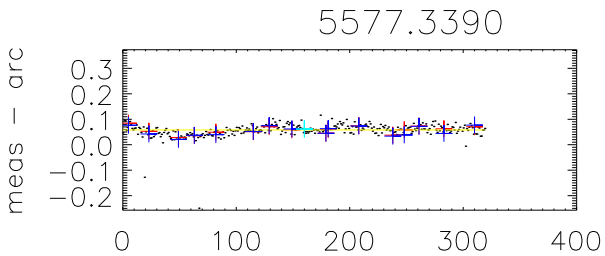

shift(pix)=−0.106
err(pix)= 0.029
oldshift(pix)=−0.111
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

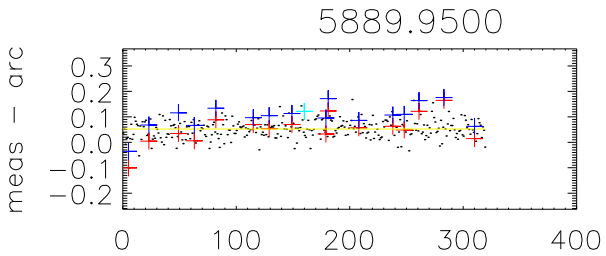

shift(pix)= 0.025
err(pix)= 0.021
oldshift(pix)= 0.090
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

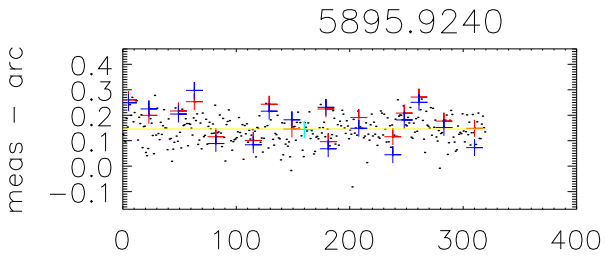

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

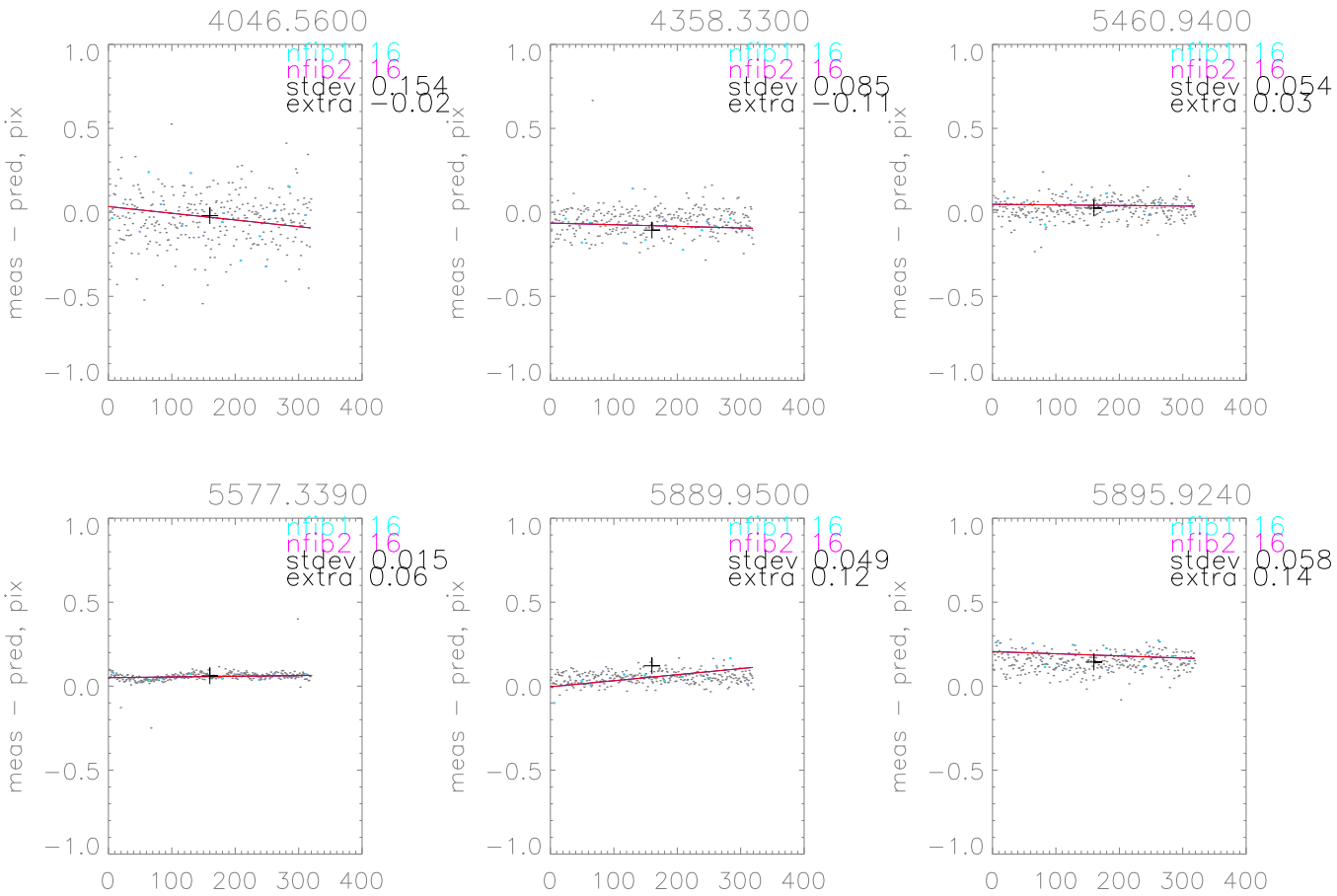

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

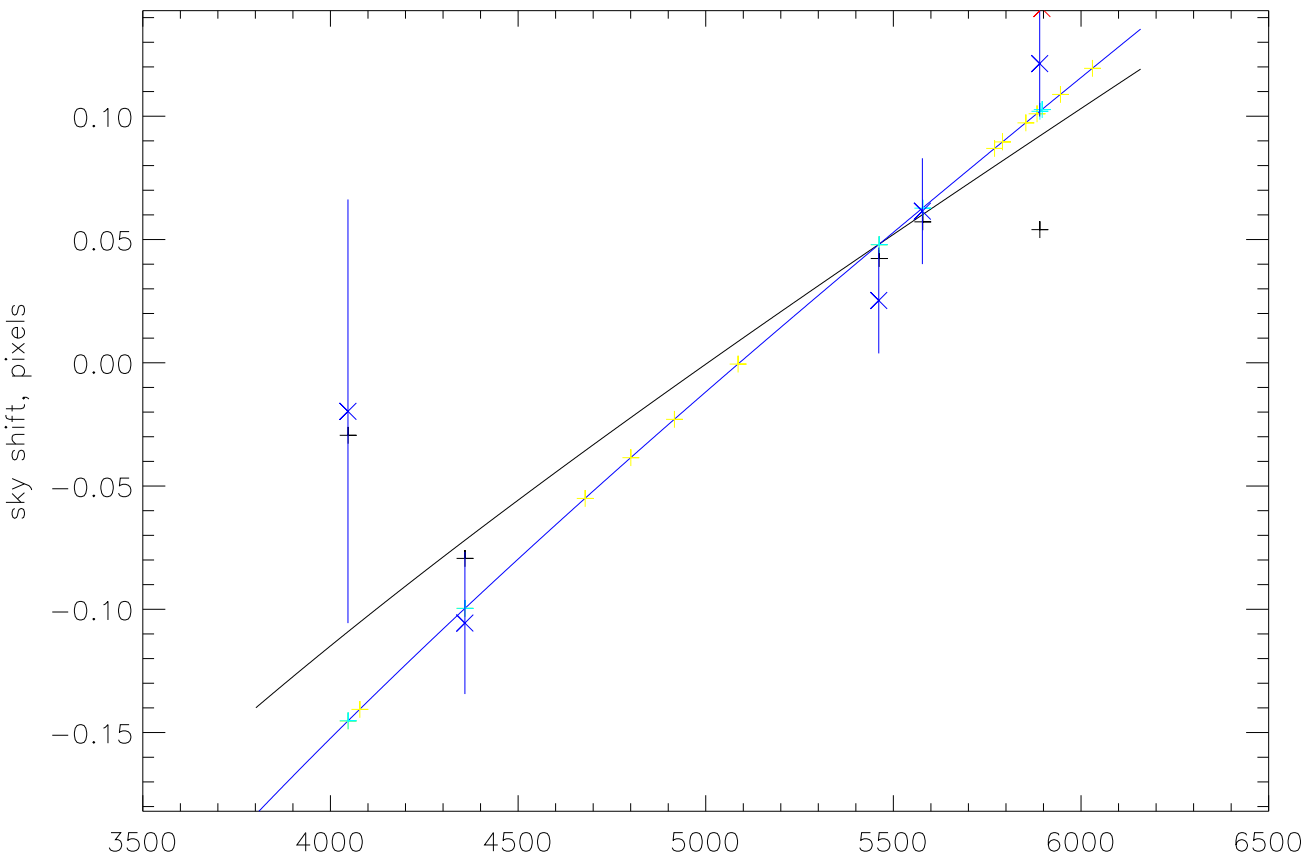

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

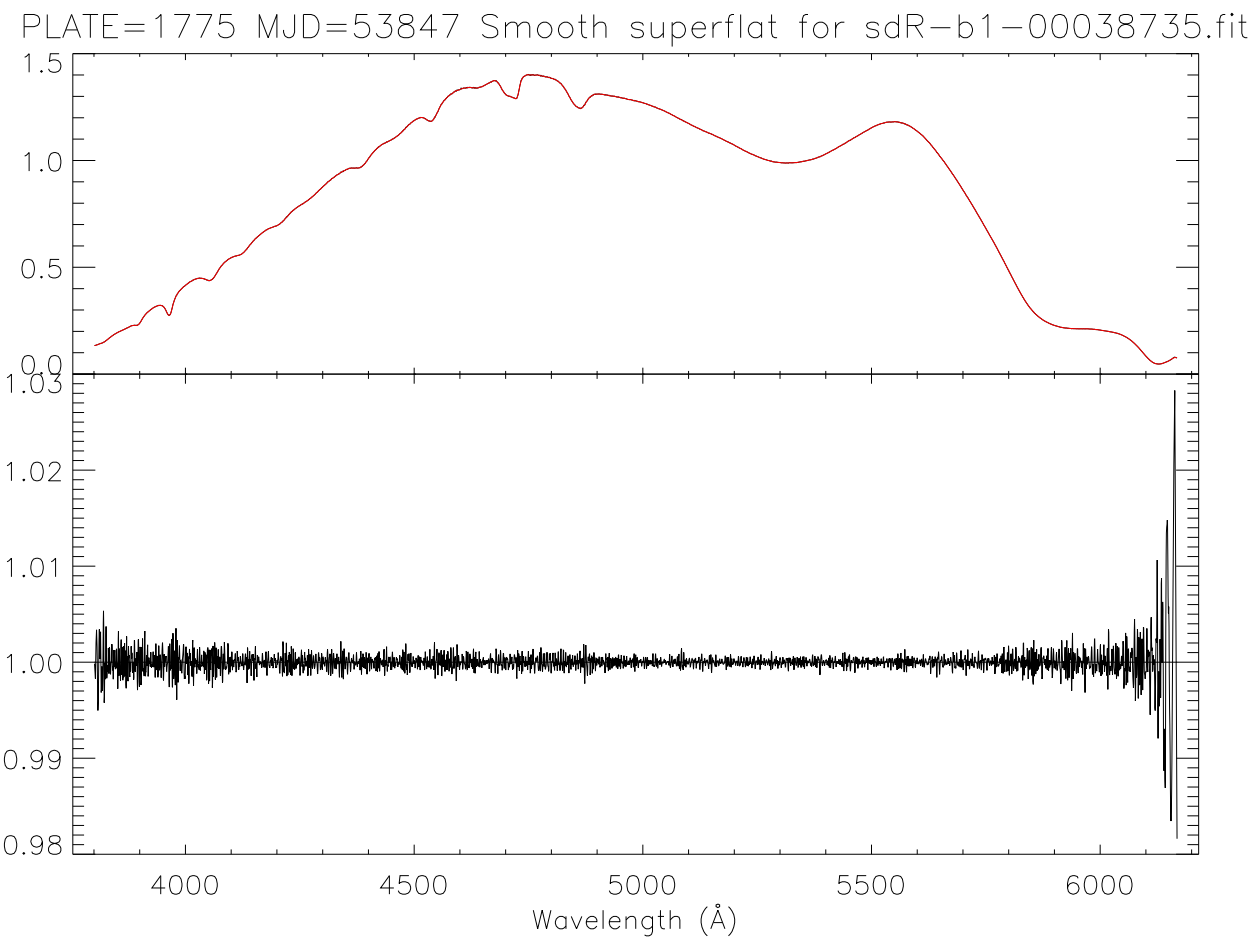

5889.9500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

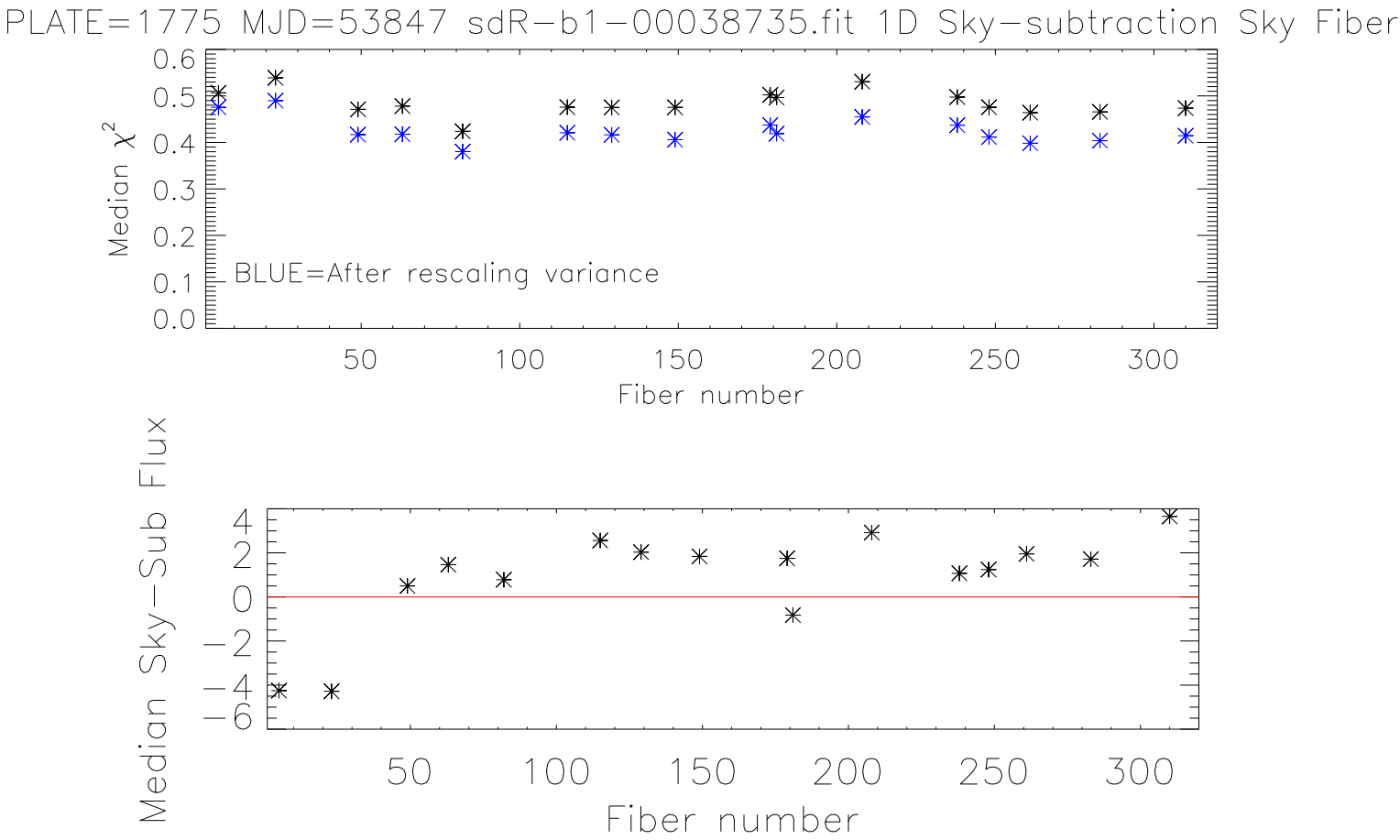

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

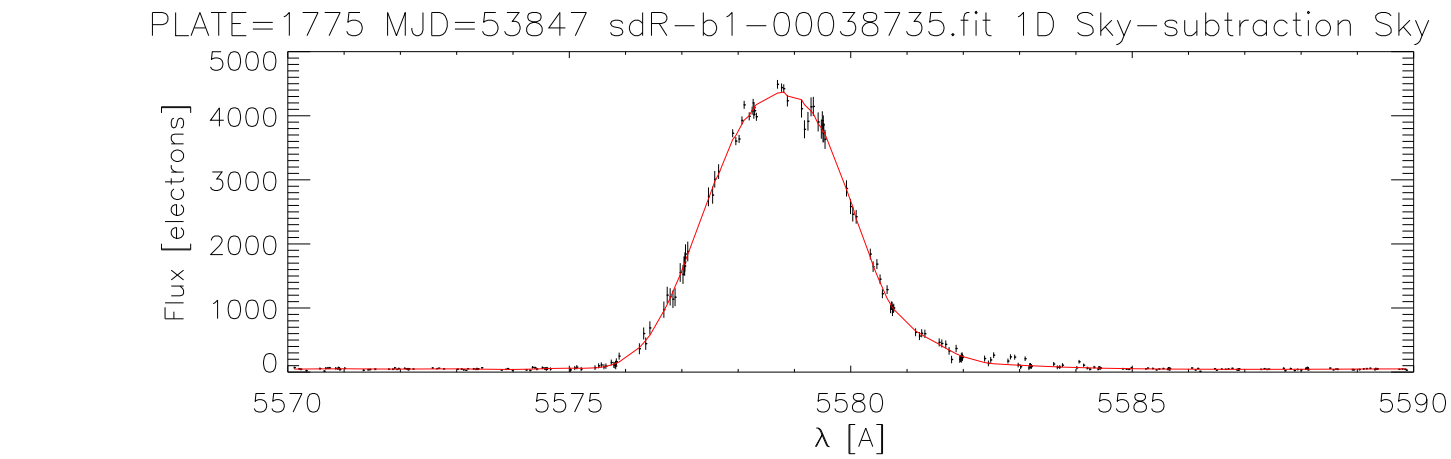

4046.5600
nfib1 16
nfib2 16
stdev 0.154
extra −0.02
4358.3300
nfib1 16
nfib2 16
stdev 0.085
extra −0.11
5460.9400
nfib1 16
nfib2 16
stdev 0.054
extra 0.03
5577.3390
nfib1 16
nfib2 16
stdev 0.015
extra 0.06
5889.9500
nfib1 16
nfib2 16
stdev 0.049
extra 0.12
5895.9240
nfib1 16
nfib2 16
stdev 0.058
extra 0.14
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

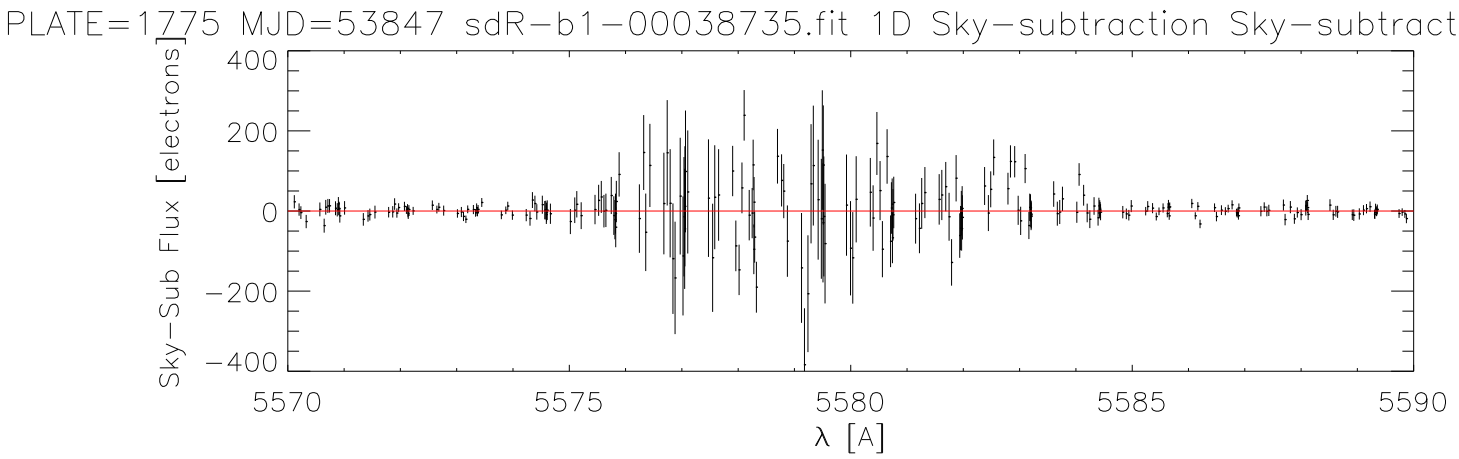

sky shift, pixels
0.10
0.05
0.00
−0.05
−0.10
−0.15
3500
4000
4500
5000
5500
6000
6500

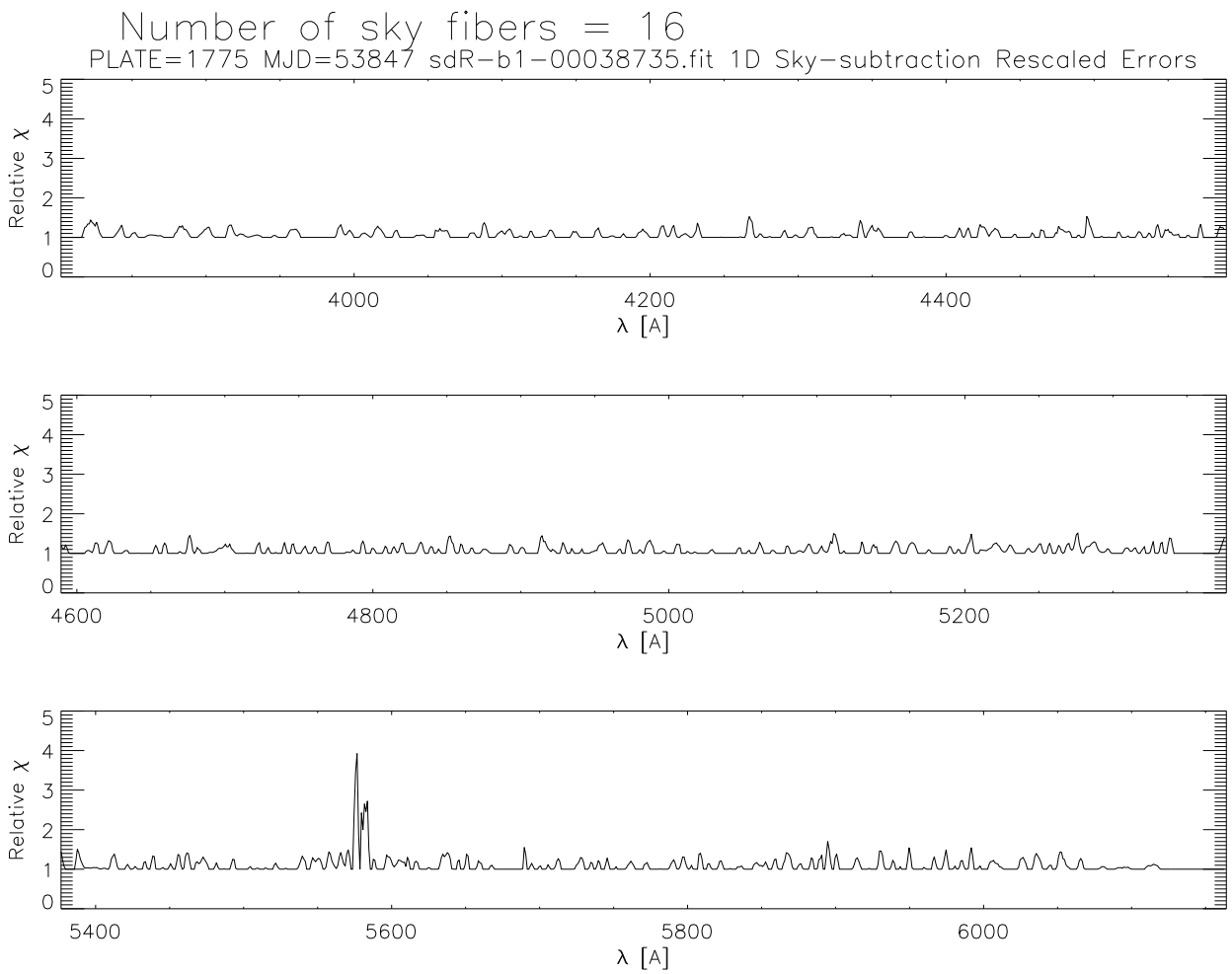
es= 0.0000

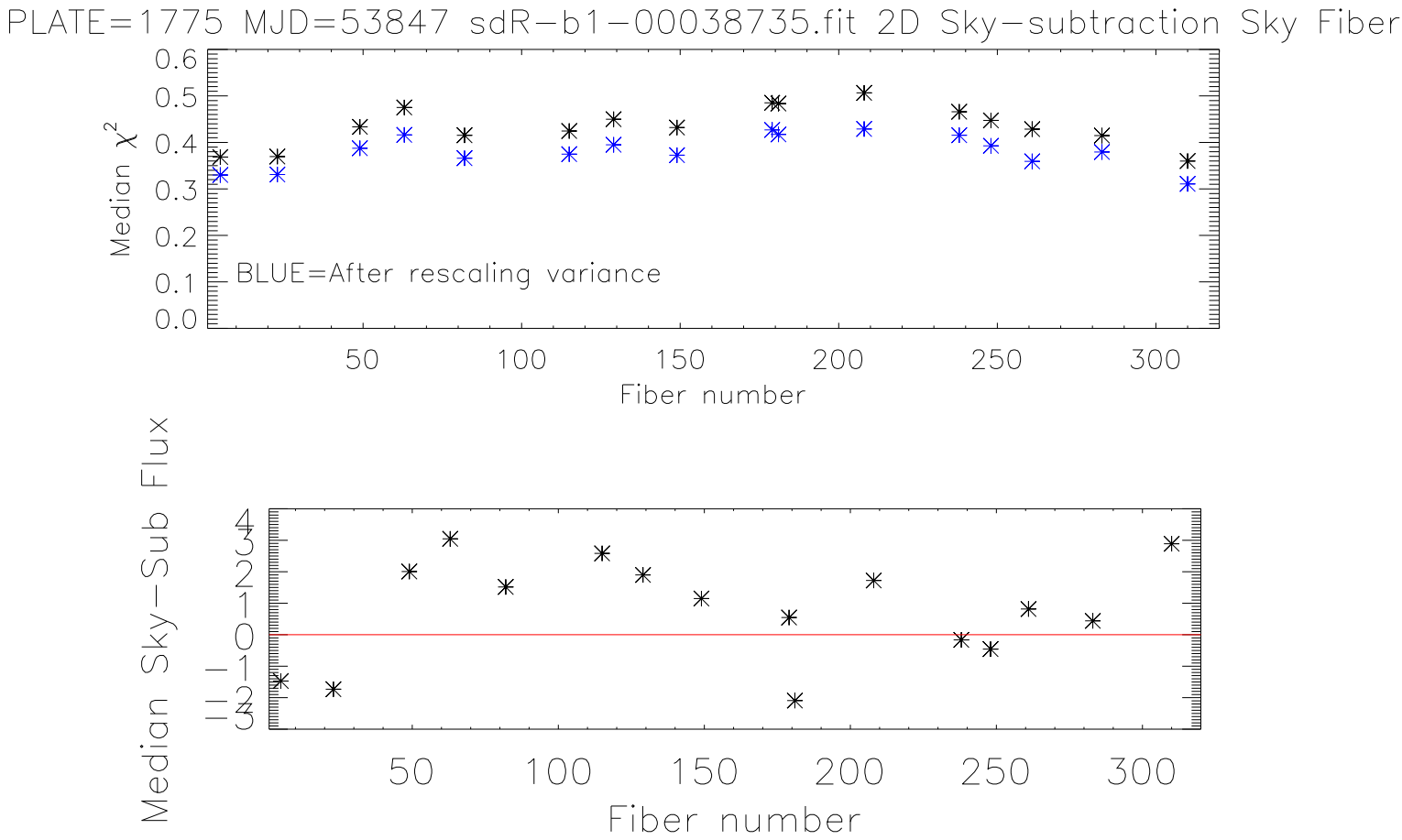

PLATE=1775 MJD=53847 Smooth superflat for sdR-b1-00038735.fit
1.5
1.0
0.5
0.0
1.03
1.02
1.01
1.00
0.99
0.98
4000
4500
5000
5500
6000
Wavelength (Å)

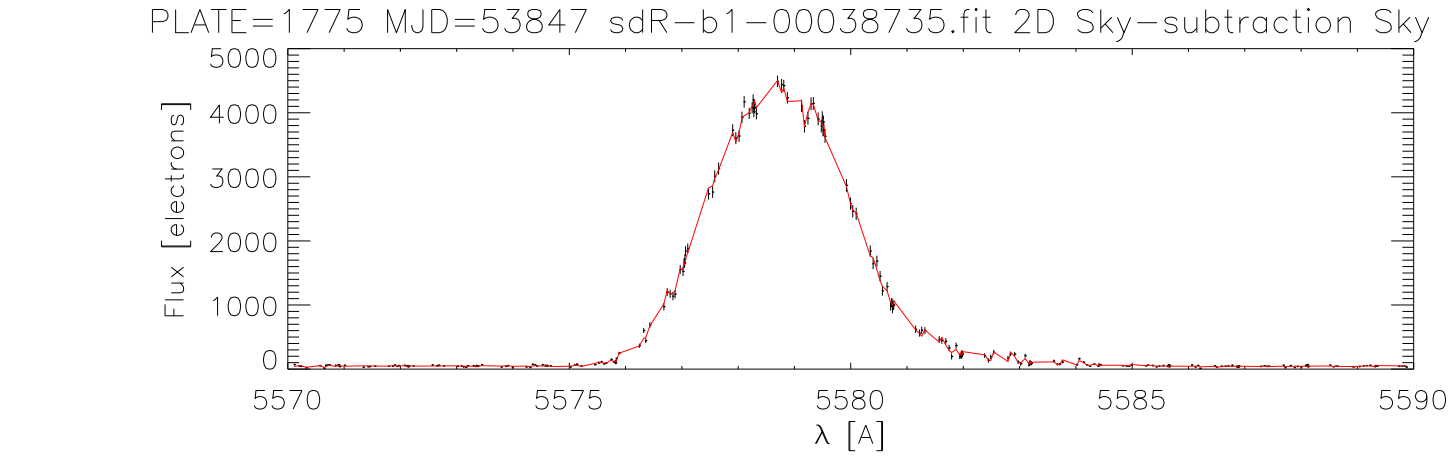

PLATE=1775 MJD=53847 sdR-b1-00038735.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
50
100
150
200
250
300
Fiber number

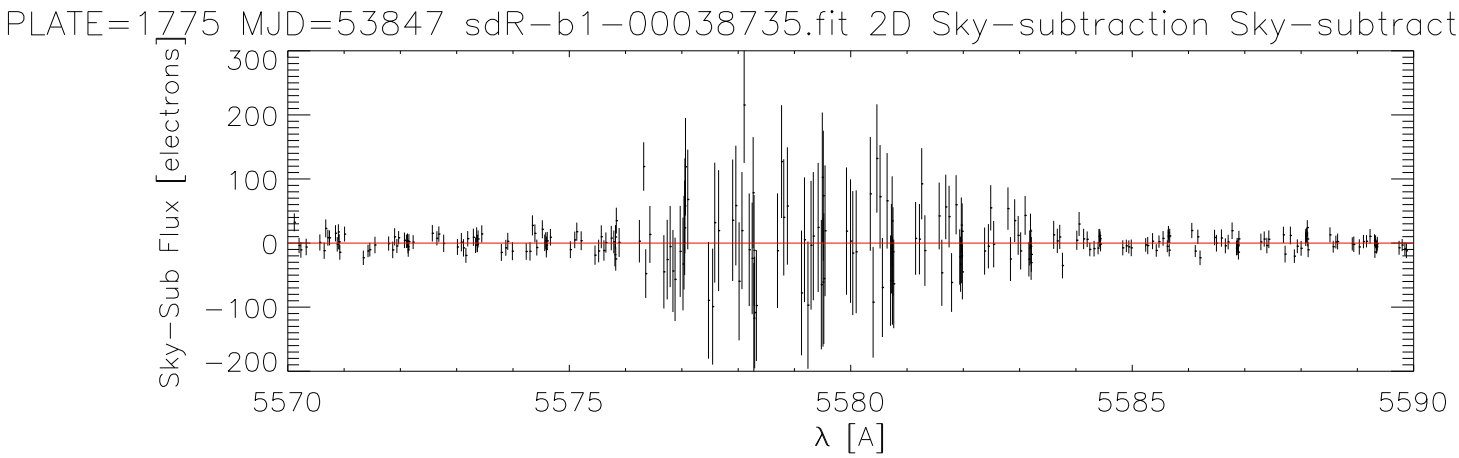

PLATE=1775 MJD=53847 sdR-b1-00038735.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

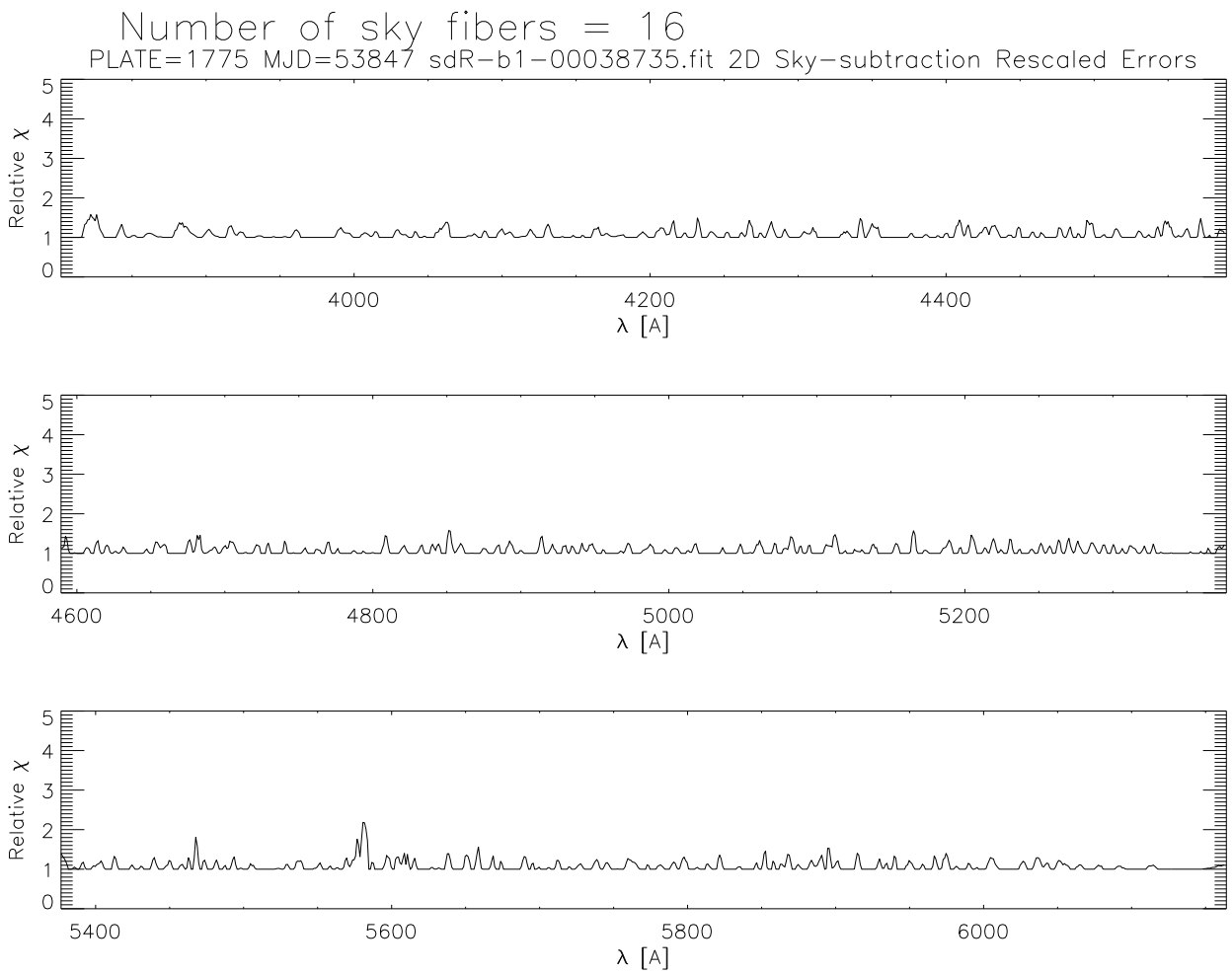

PLATE=1775 MJD=53847 sdR-b1-00038735.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

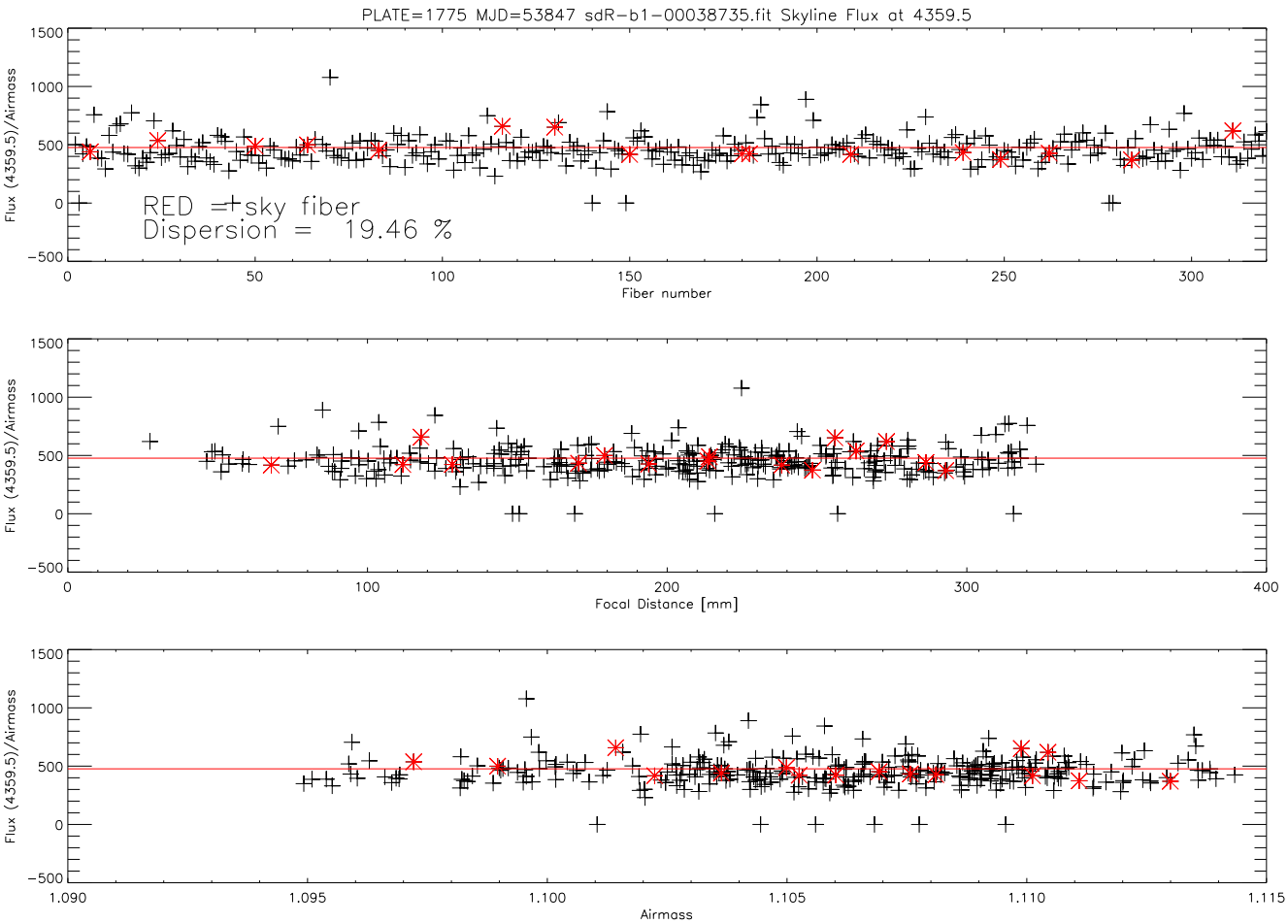

Number of sky fibers = 16
PLATE=1775 MJD=53847 sdR-b1-00038735.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

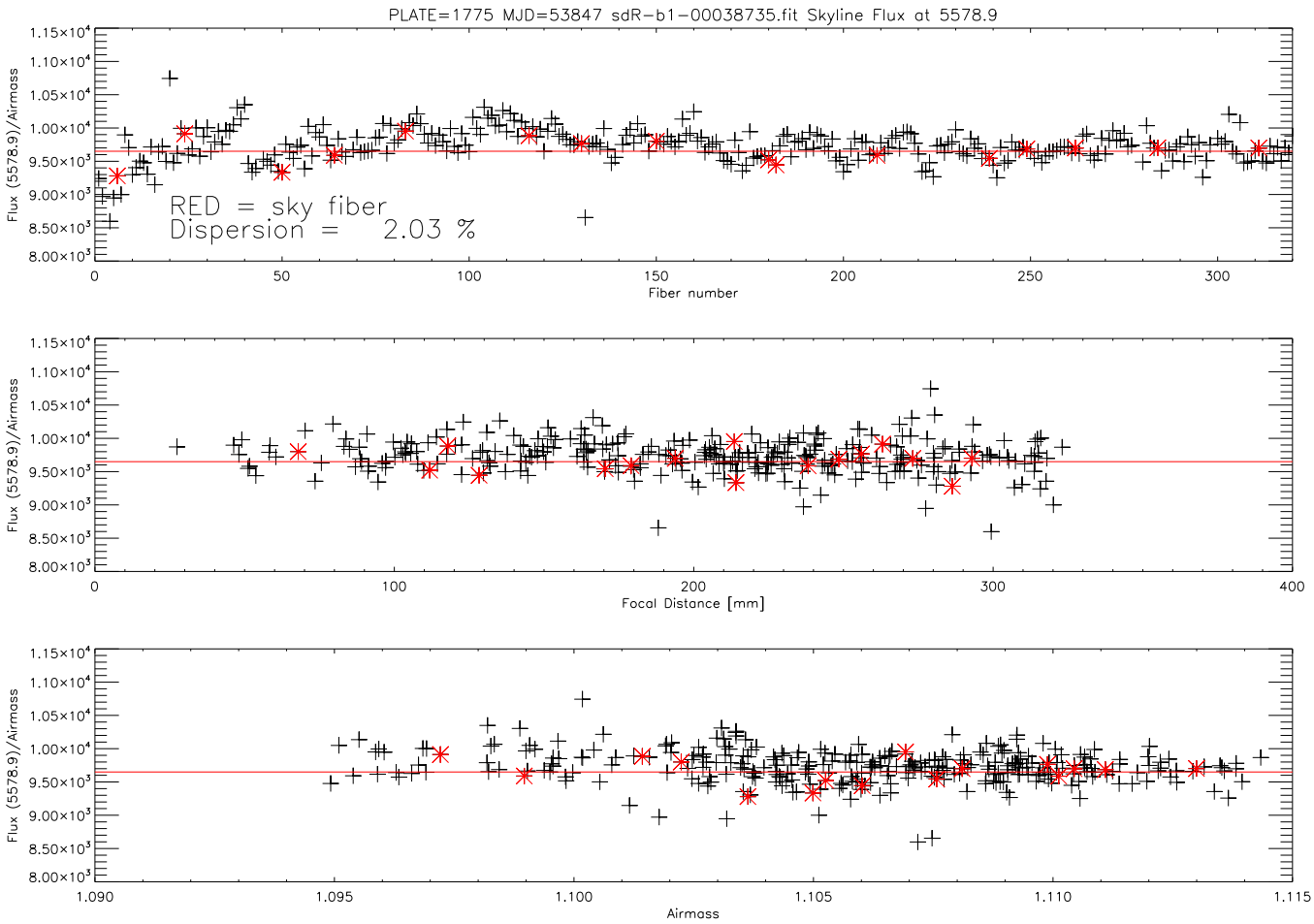

PLATE=1775 MJD=53847 sdR-b1-00038735.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

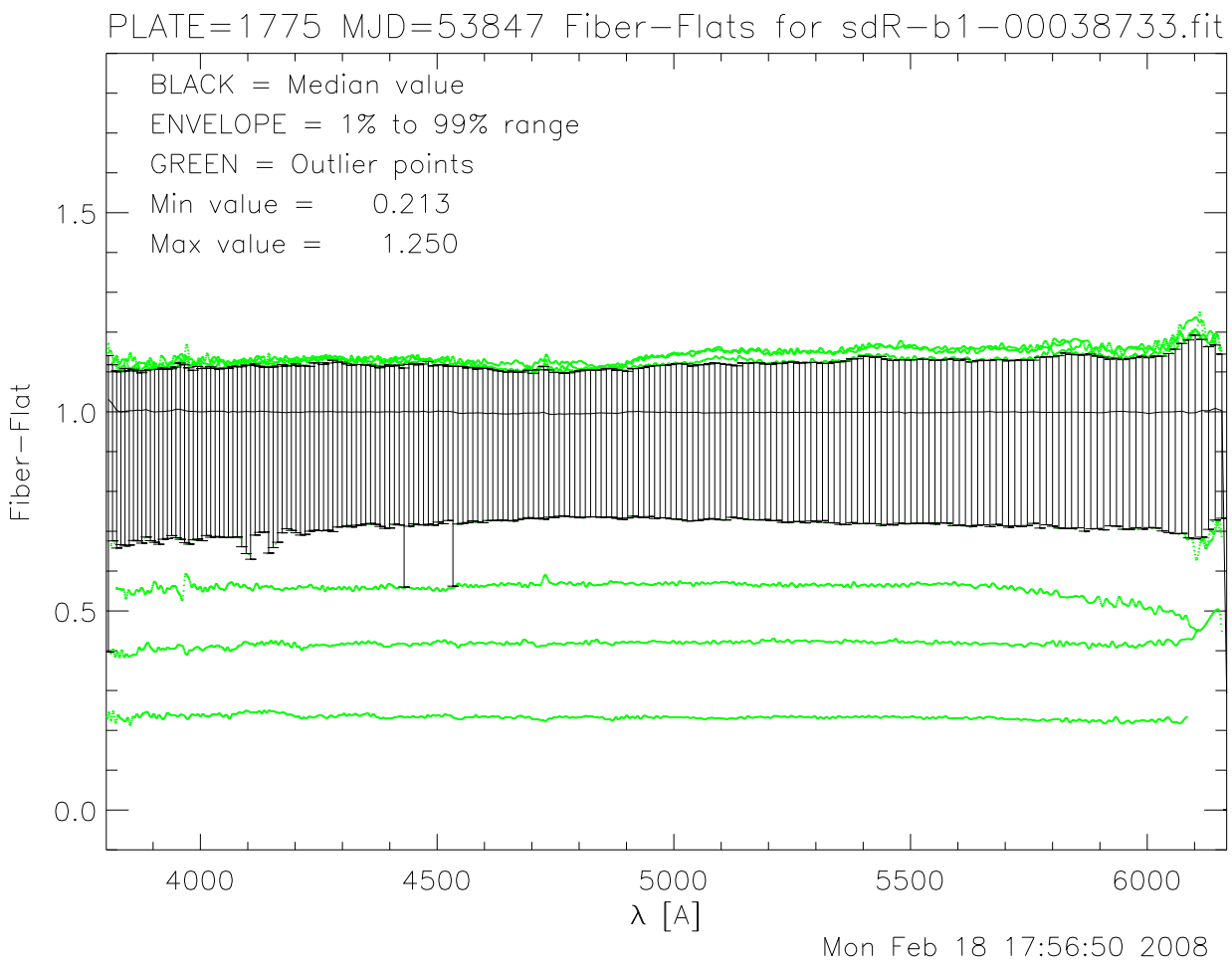

PLATE=1775 MJD=53847 sdR-b1-00038735.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

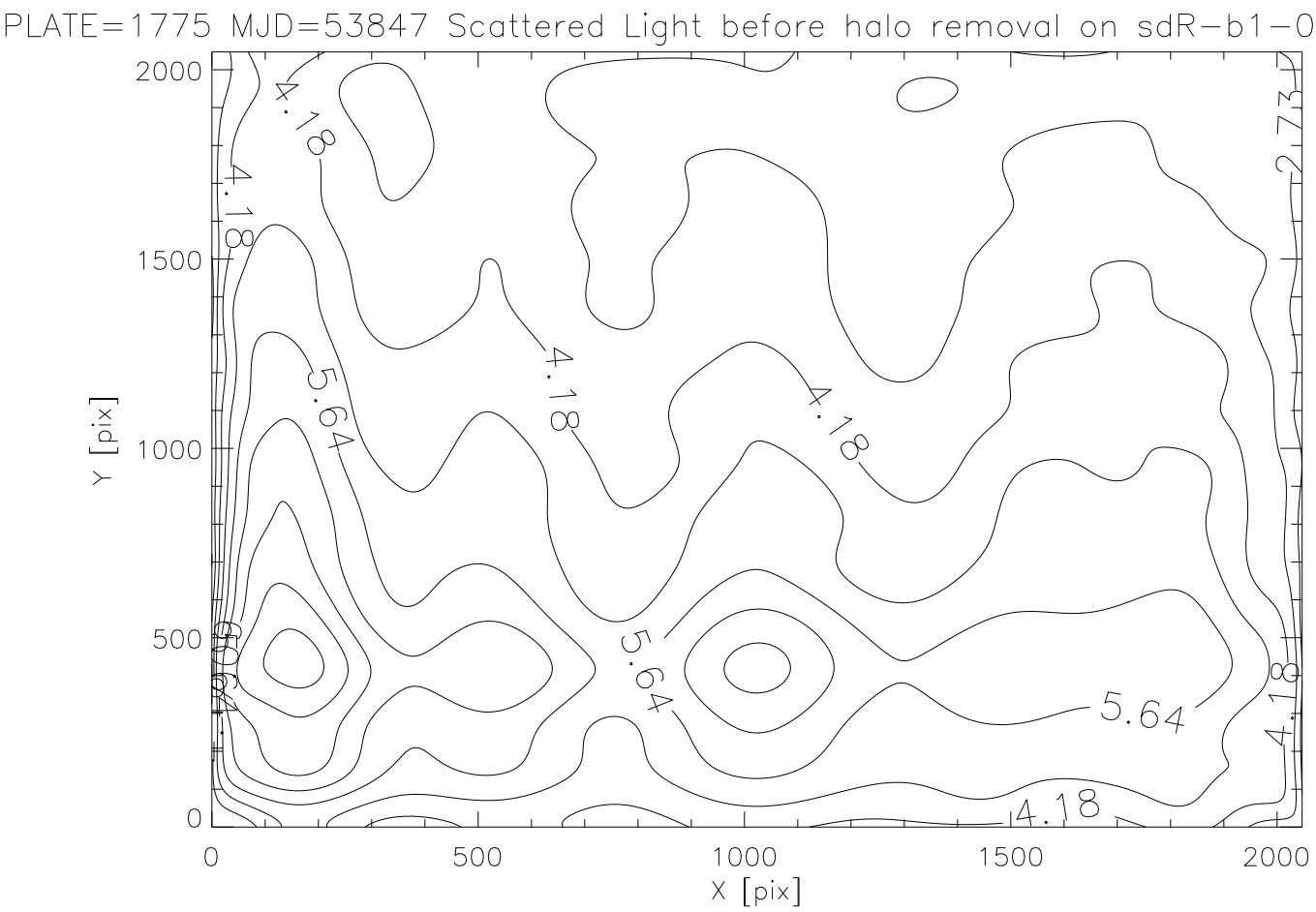

PLATE=1775 MJD=53847 sdR-b1-00038735.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

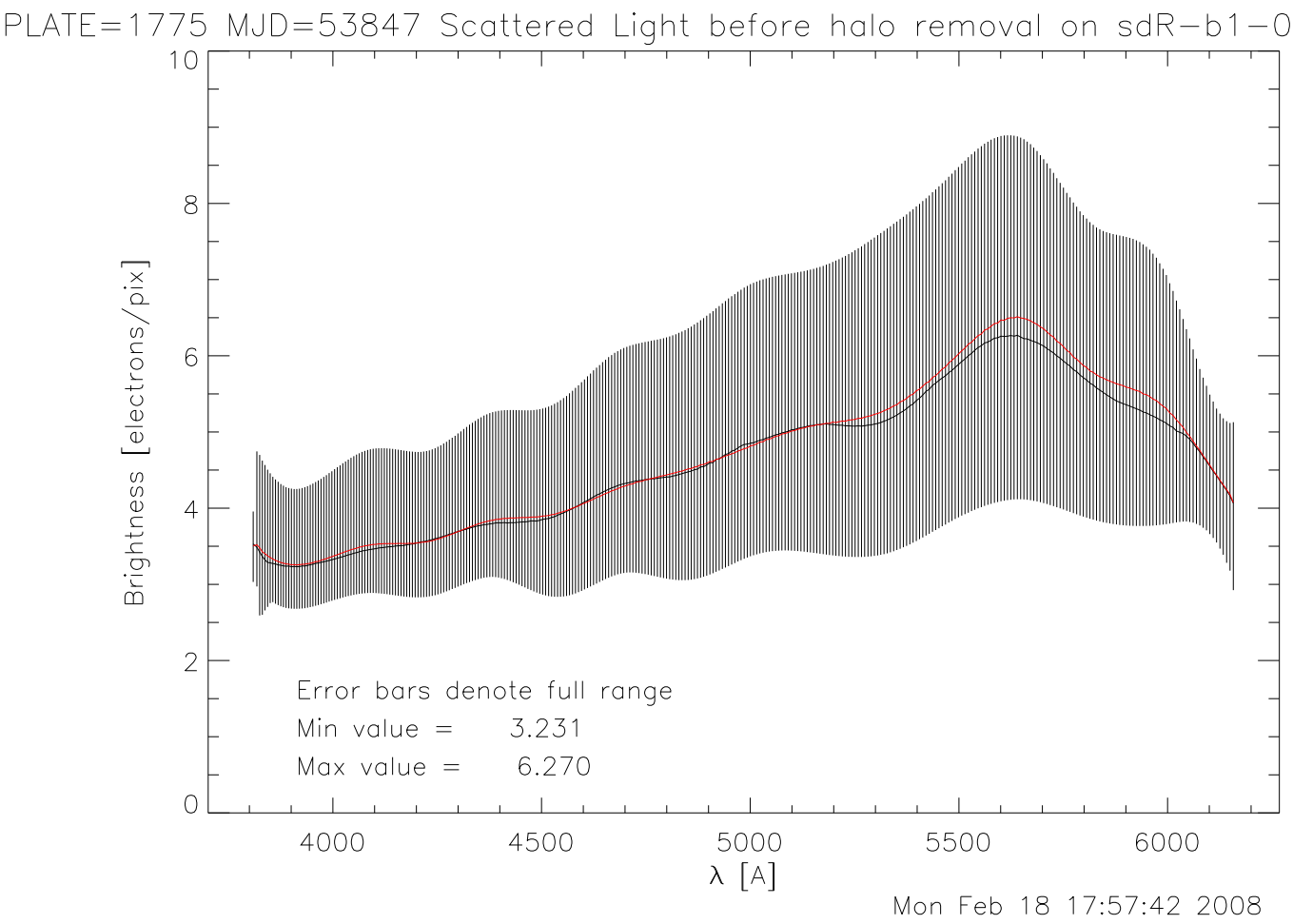

Number of sky fibers = 16
PLATE=1775 MJD=53847 sdR-b1-00038735.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

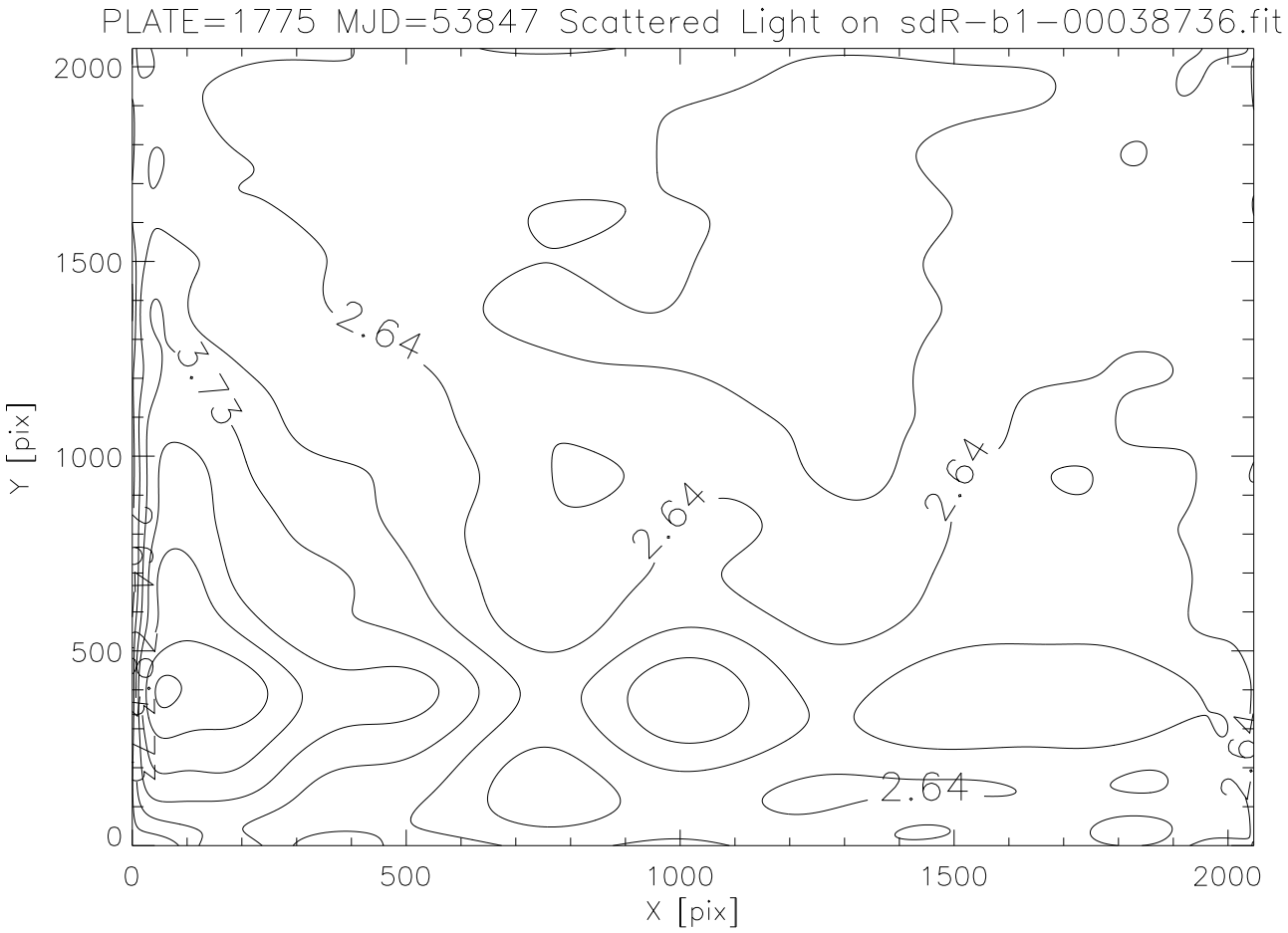

PLATE=1775 MJD=53847 sdR-b1-00038735.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED =+sky fiber
Dispersion = 19.46 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

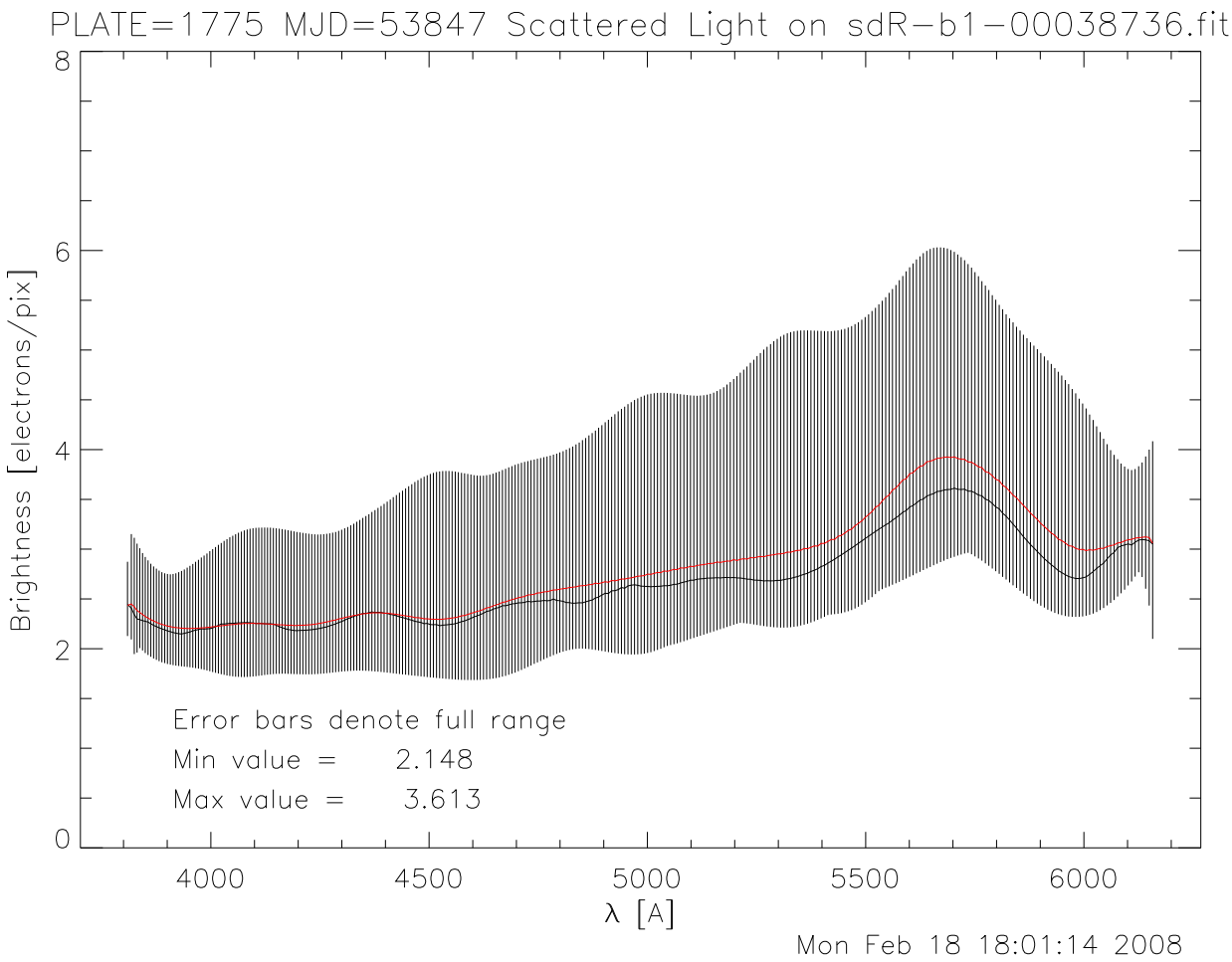

PLATE=1775 MJD=53847 sdR-b1-00038735.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.03 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

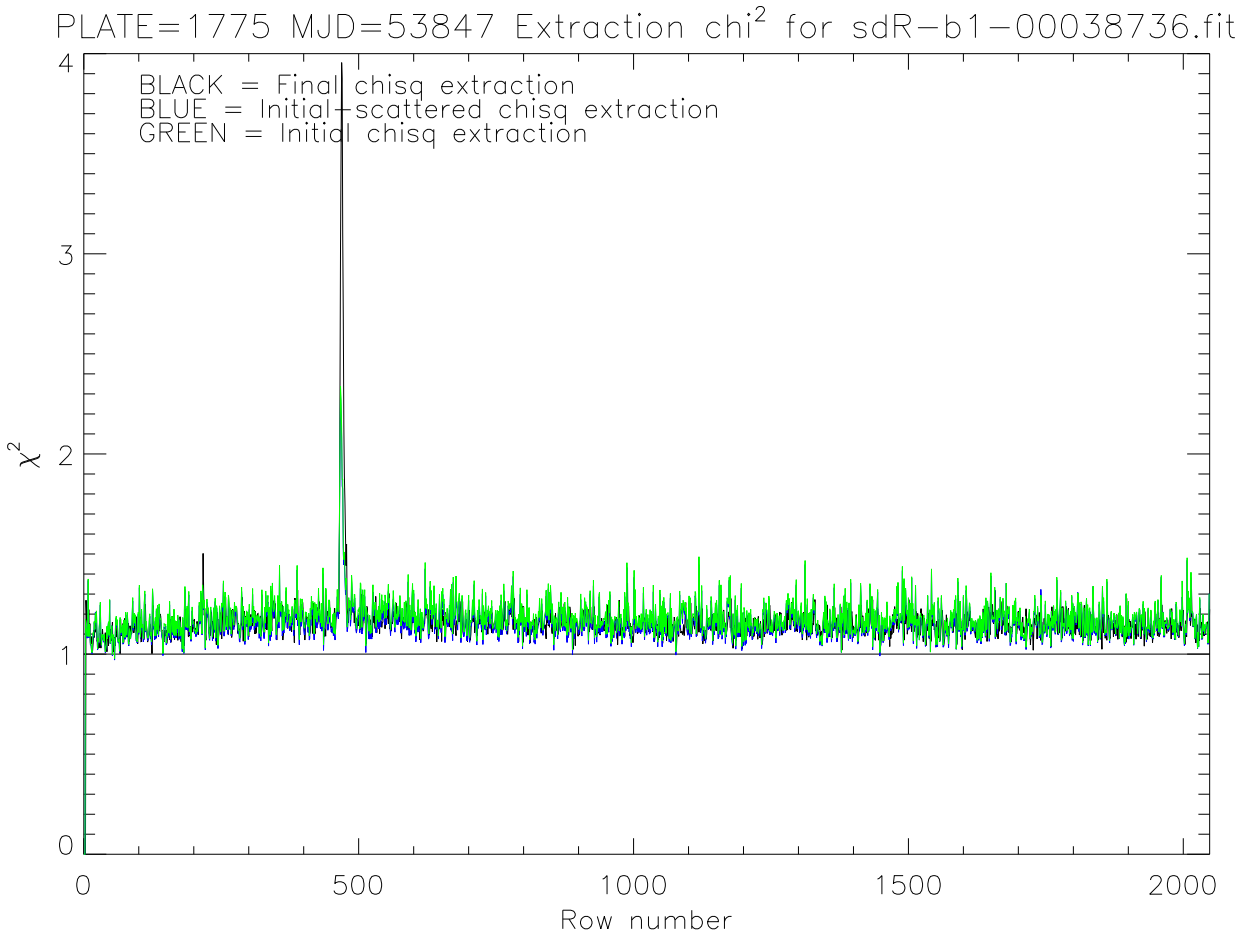

PLATE=1775 MJD=53847 Fiber−Flats for sdR−b1−00038733.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.213
Max value = 1.250
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 18 17:56:50 2008

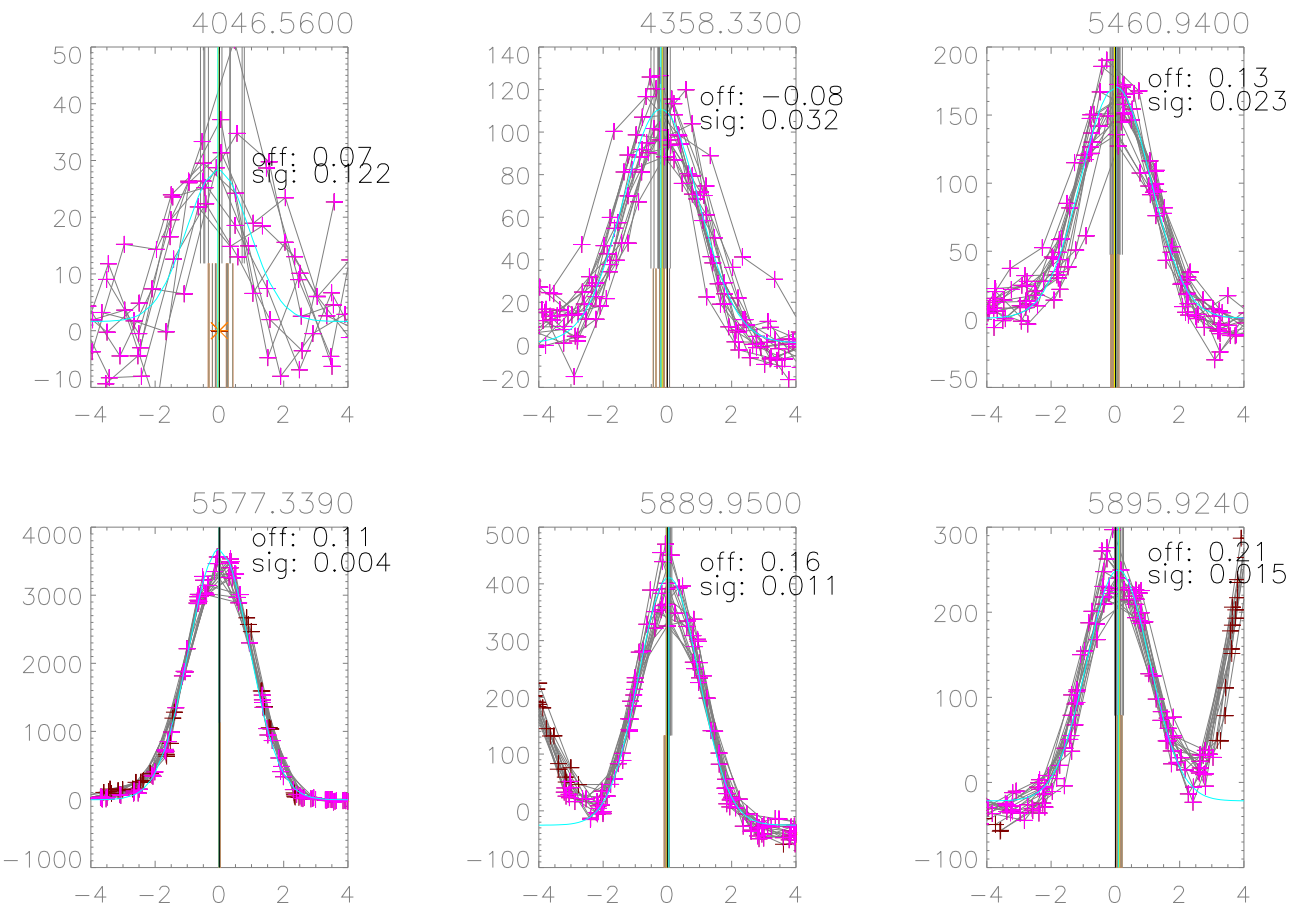

PLATE=1775 MJD=53847 Scattered Light before halo removal on sdR−b1−00038736.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
4.18
4.18
2.73
5.64
4.18
4.18
5.64
5.64
4.18
4.18

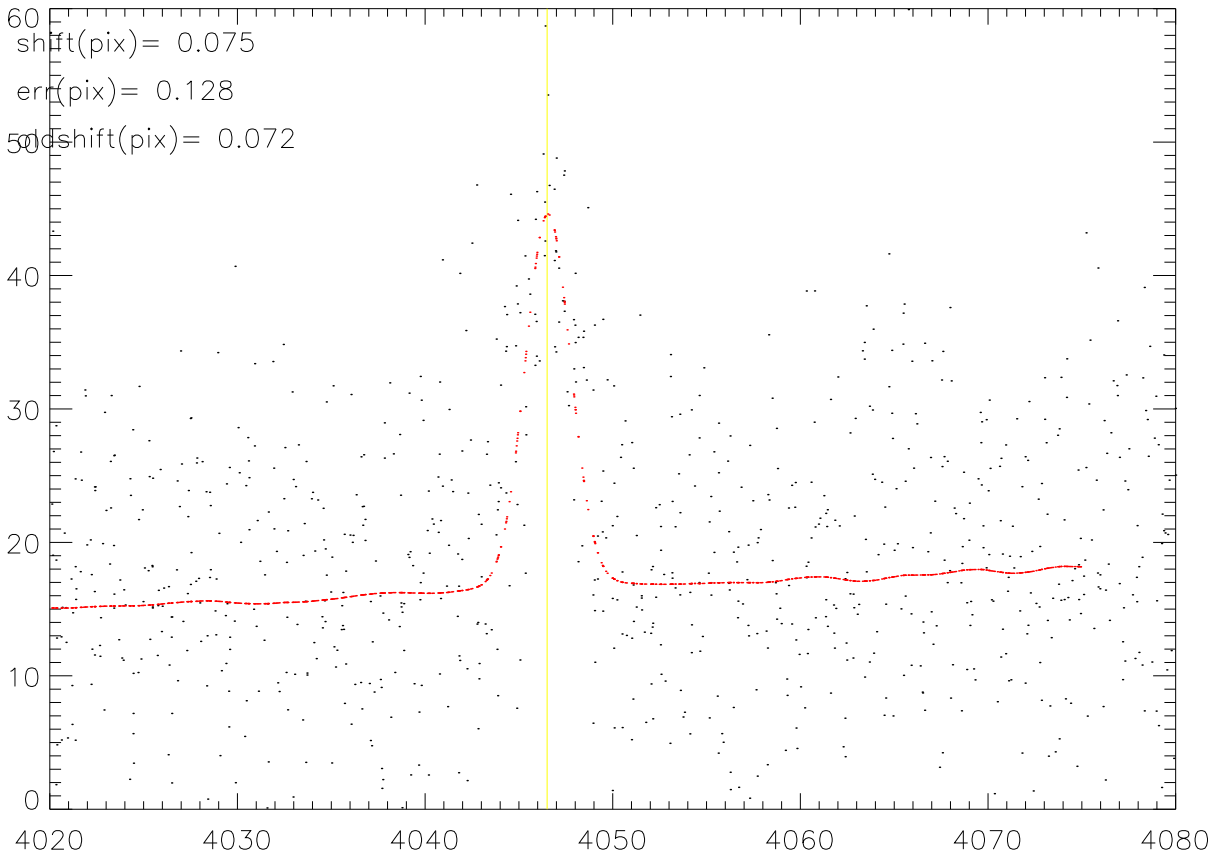

PLATE=1775 MJD=53847 Scattered Light before halo removal on sdR-b1-00038736.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.231
Max value = 6.270
Mon Feb 18 17:57:42 2008

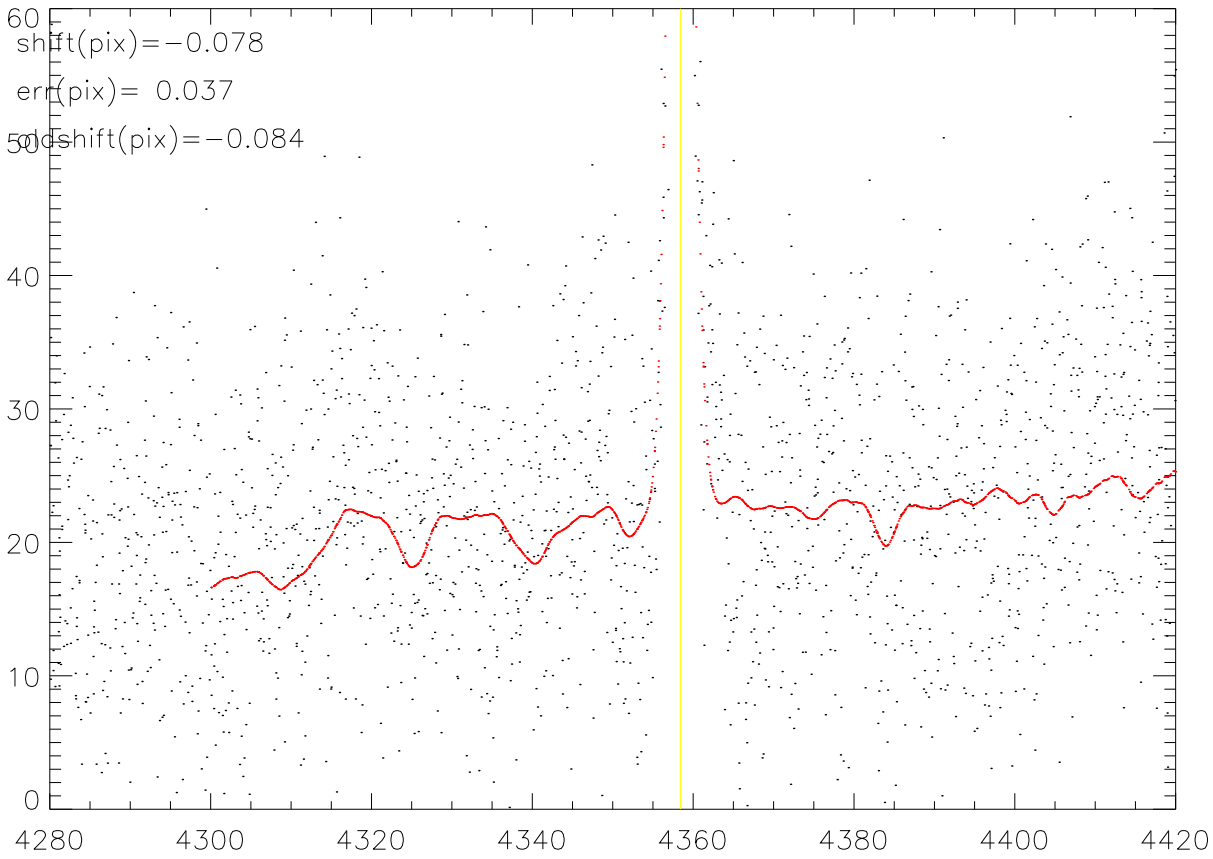

PLATE=1775 MJD=53847 Scattered Light on sdR-b1-00038736.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
0
2.64
3.73
2.64
2.64
2.64
2.64

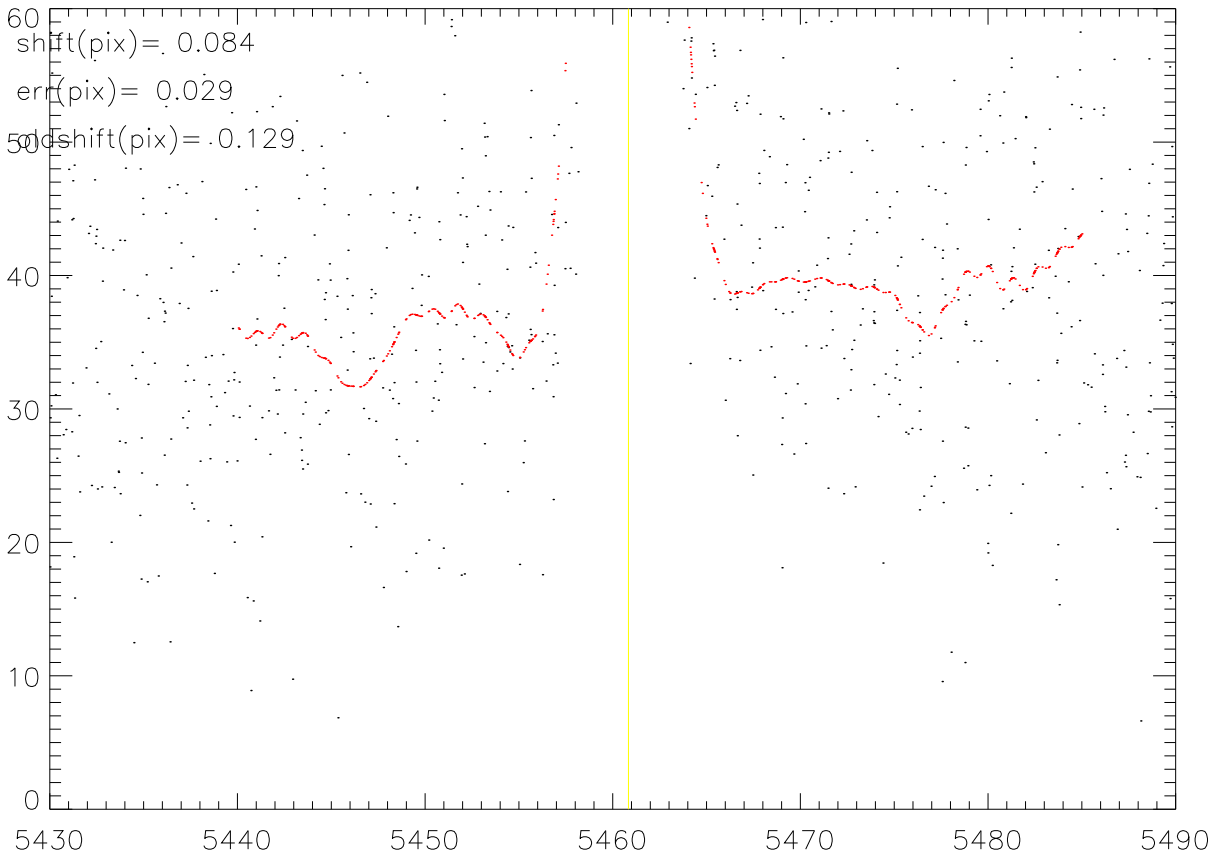

PLATE=1775 MJD=53847 Scattered Light on sdR-b1-00038736.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 2.148
Max value = 3.613
Mon Feb 18 18:01:14 2008

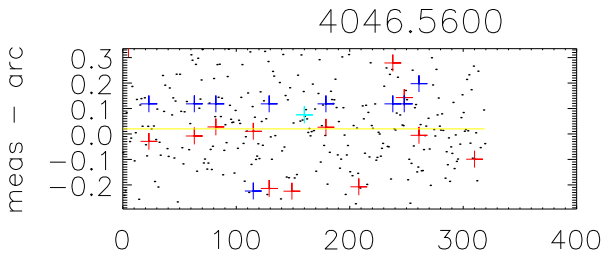

PLATE=1775 MJD=53847 Extraction chi^2 for sdR-b1-00038736.fit
BLACK = Final chisq extraction
BLUE = Initial+scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

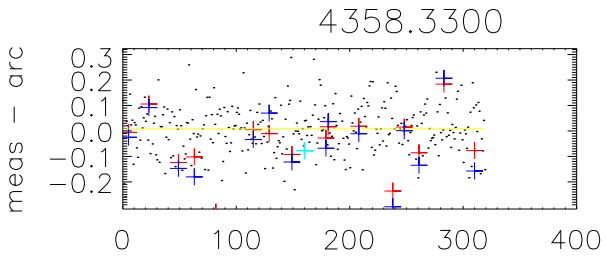

4046.5600
off: 0.07
sig: 0.122
4358.3300
off: −0.08
sig: 0.032
5460.9400
off: 0.13
sig: 0.023
5577.3390
off: 0.11
sig: 0.004
5889.9500
off: 0.16
sig: 0.011
5895.9240
off: 0.21
sig: 0.015

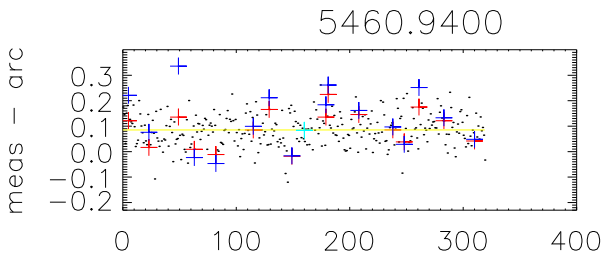

shift(pix)= 0.075
err(pix)= 0.128
oldshift(pix)= 0.072
60
50
40
30
20
10
0
4020
4030
4040
4050
4060
4070
4080

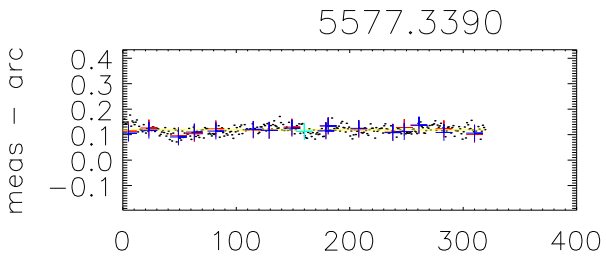

shift(pix)=−0.078
err(pix)= 0.037
oldshift(pix)=−0.084
60
50
40
30
20
10
0
4280
4300
4320
4340
4360
4380
4400
4420

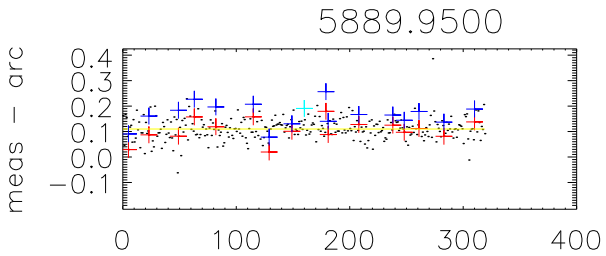

shift(pix)= 0.084
err(pix)= 0.029
oldshift(pix)= 0.129
60
50
40
30
20
10
0
5430
5440
5450
5460
5470
5480
5490

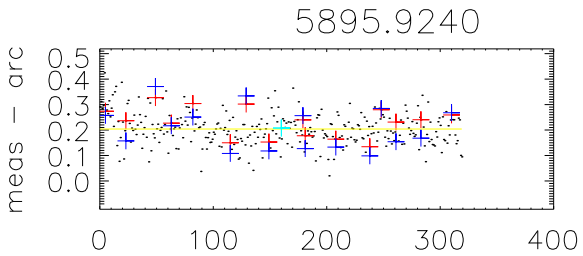

4046.5600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

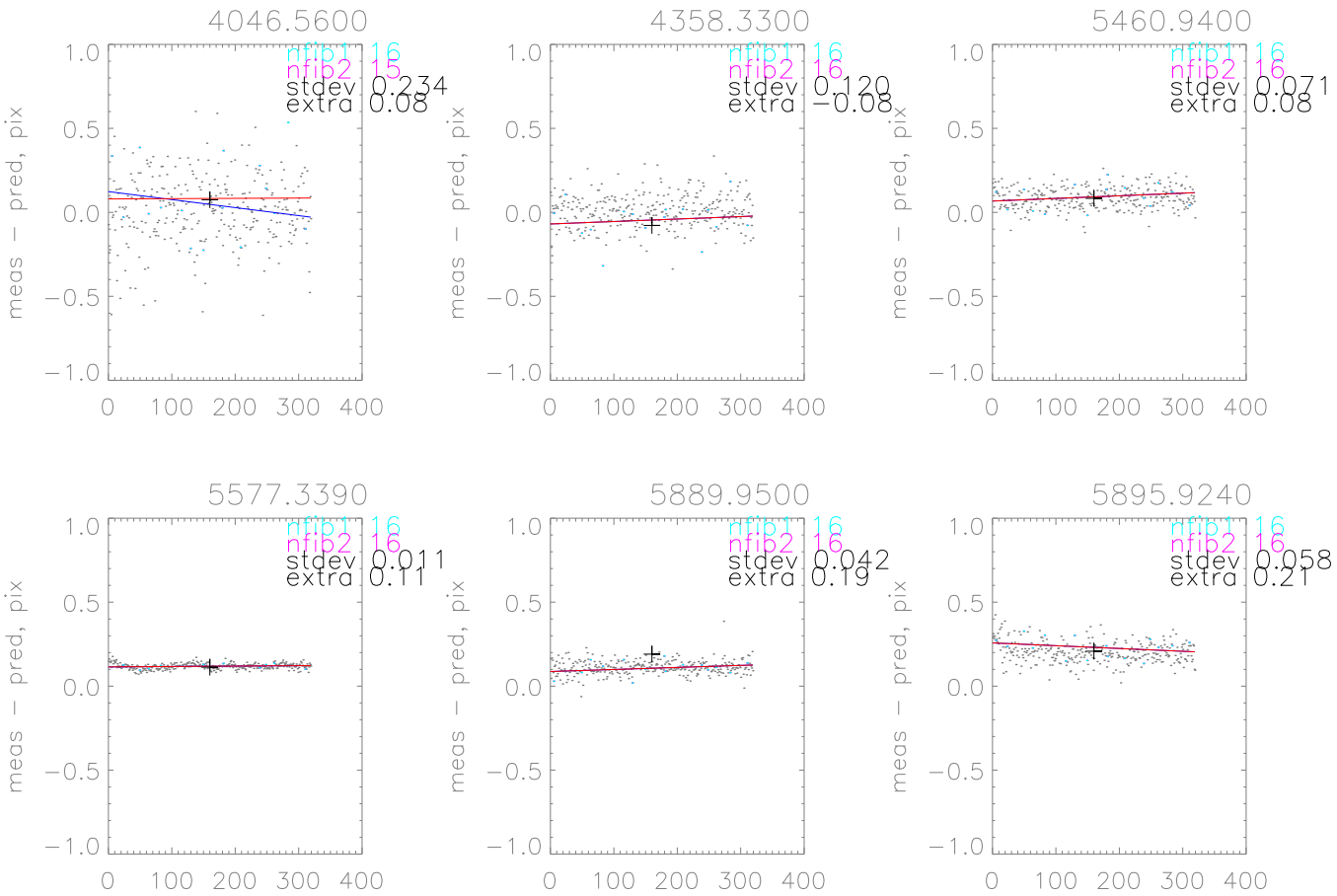

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

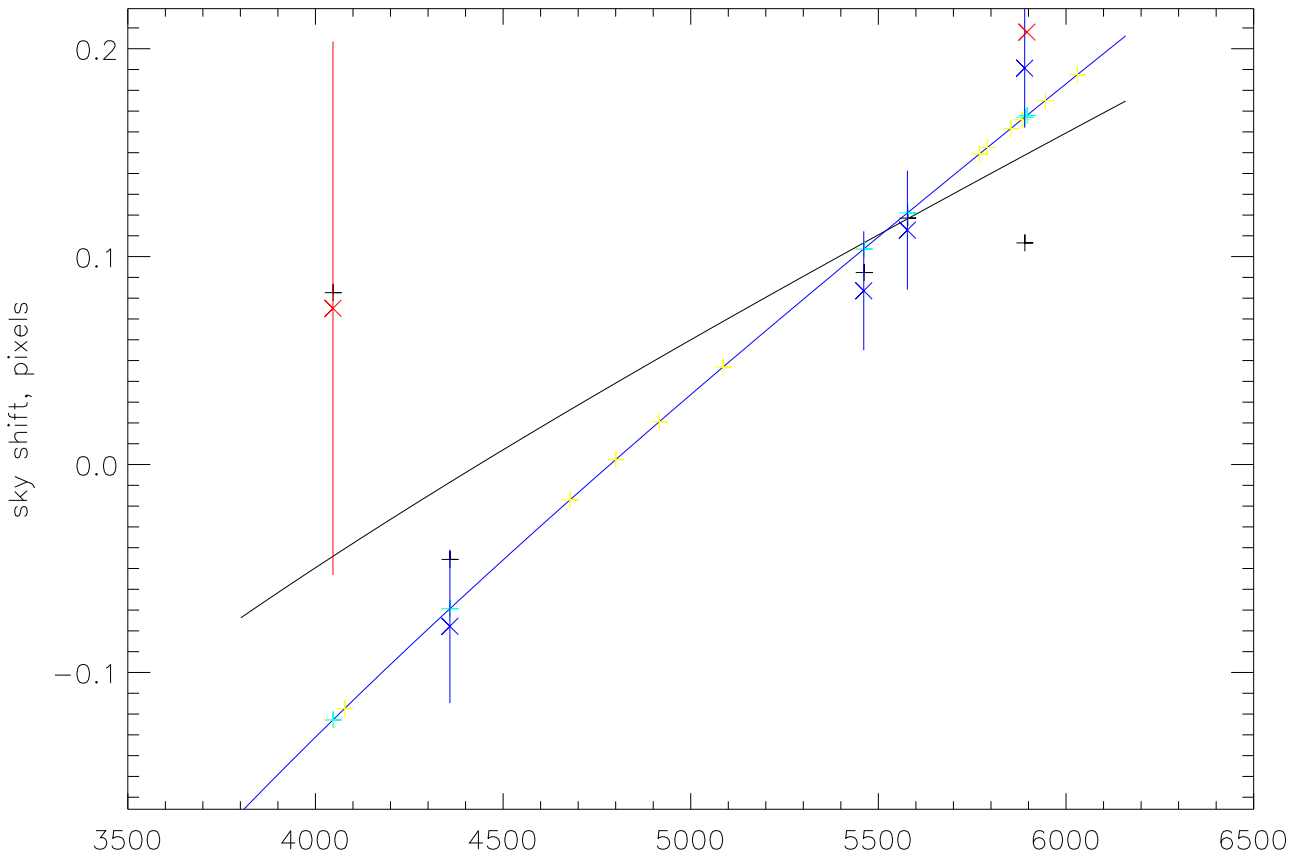

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

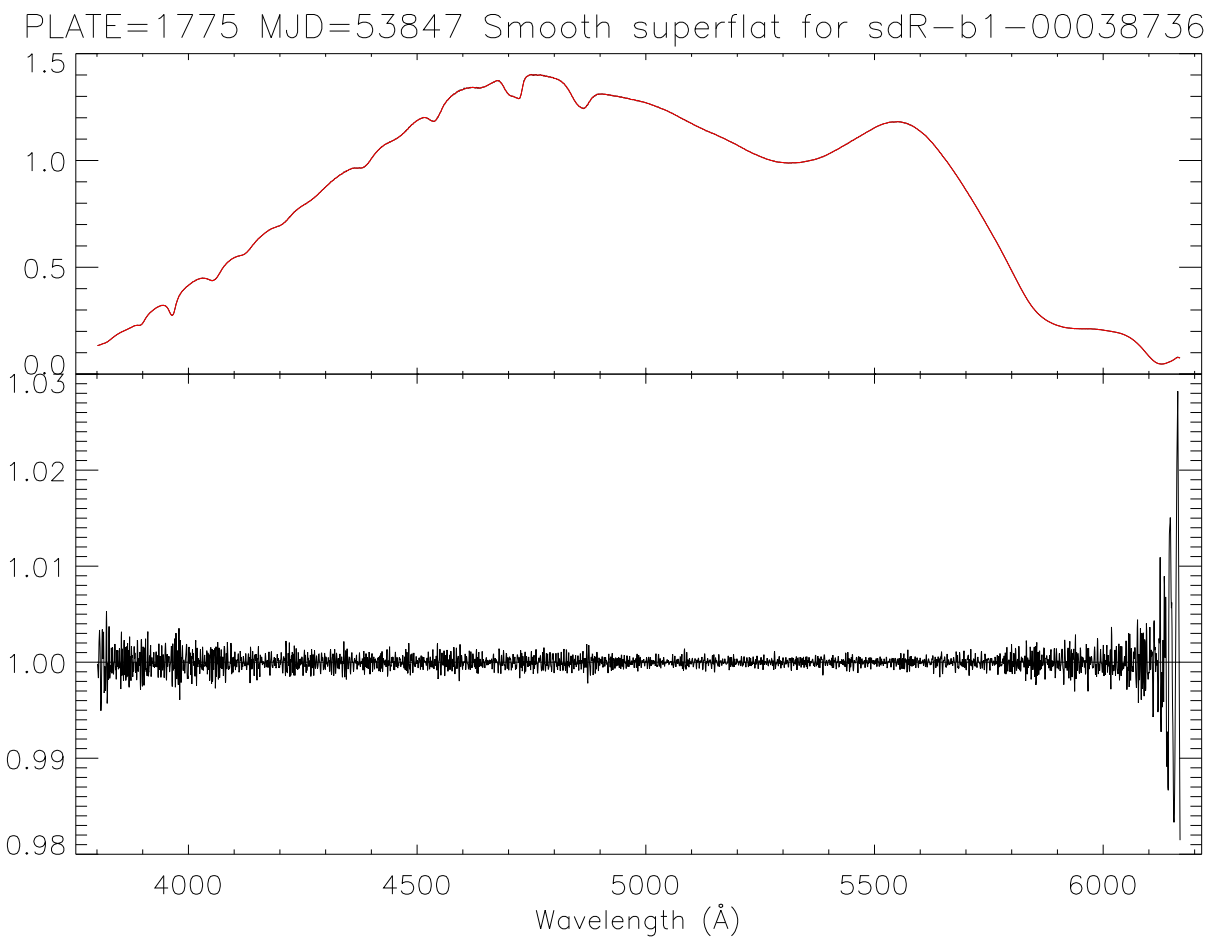

5889.9500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

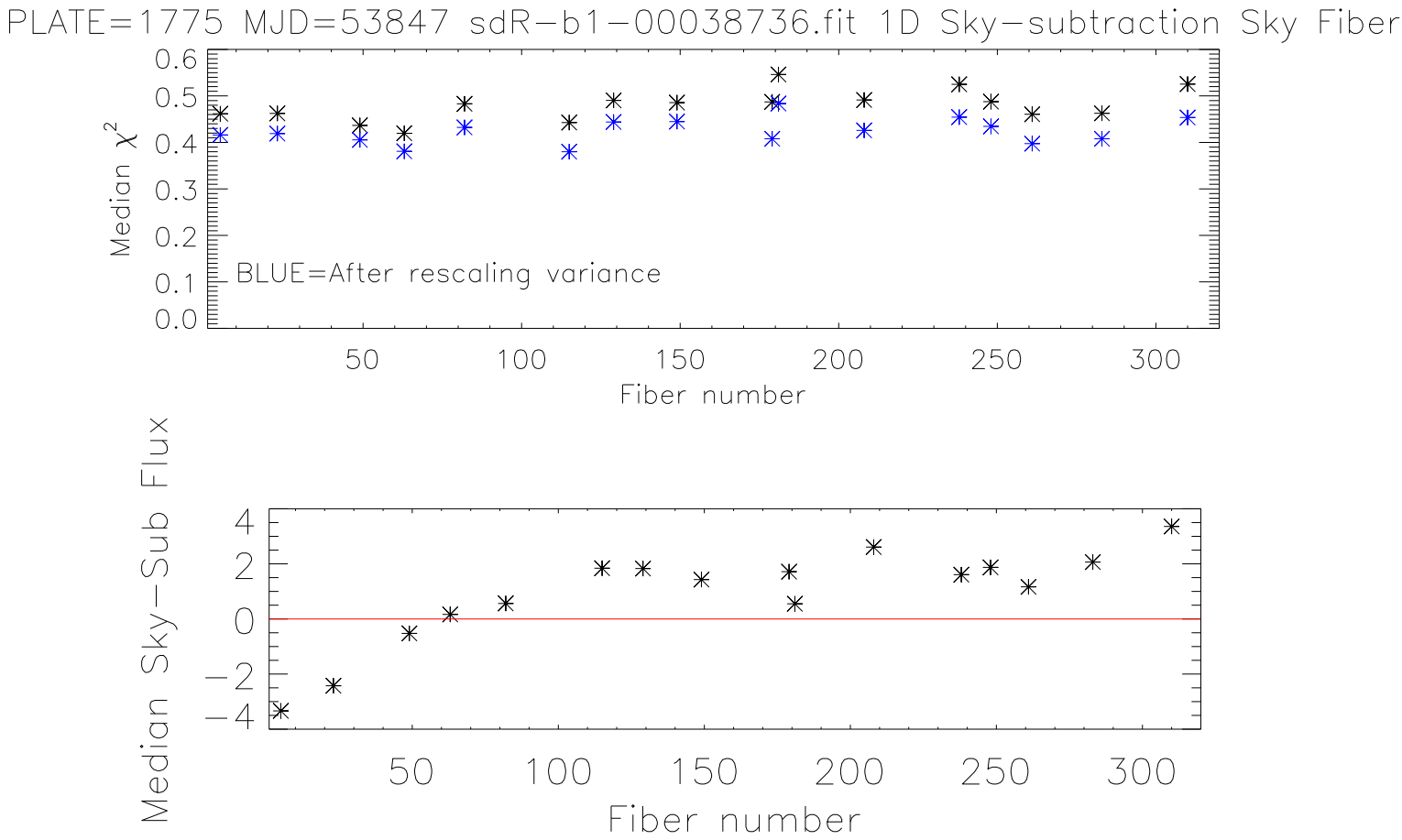

5895.9240
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

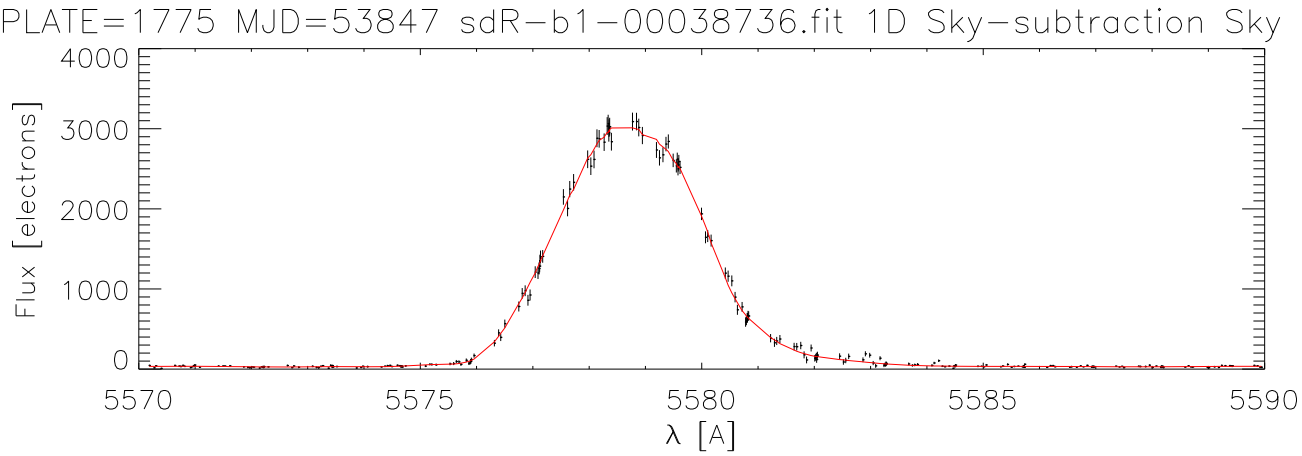

4046.5600
nfib1 16
nfib2 15
stdev 0.234
extra 0.08
4358.3300
nfib1 16
nfib2 16
stdev 0.120
extra −0.08
5460.9400
nfib1 16
nfib2 16
stdev 0.071
extra 0.08
5577.3390
nfib1 16
nfib2 16
stdev 0.011
extra 0.11
5889.9500
nfib1 16
nfib2 16
stdev 0.042
extra 0.19
5895.9240
nfib1 16
nfib2 16
stdev 0.058
extra 0.21
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

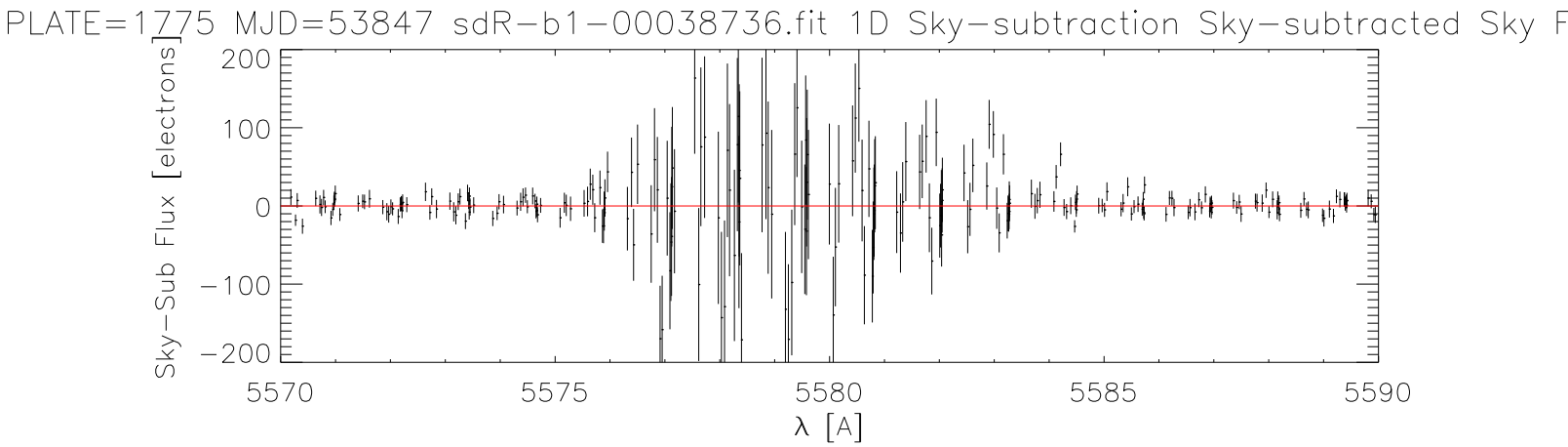

sky shift, pixels
0.2
0.1
0.0
−0.1
3500
4000
4500
5000
5500
6000
6500

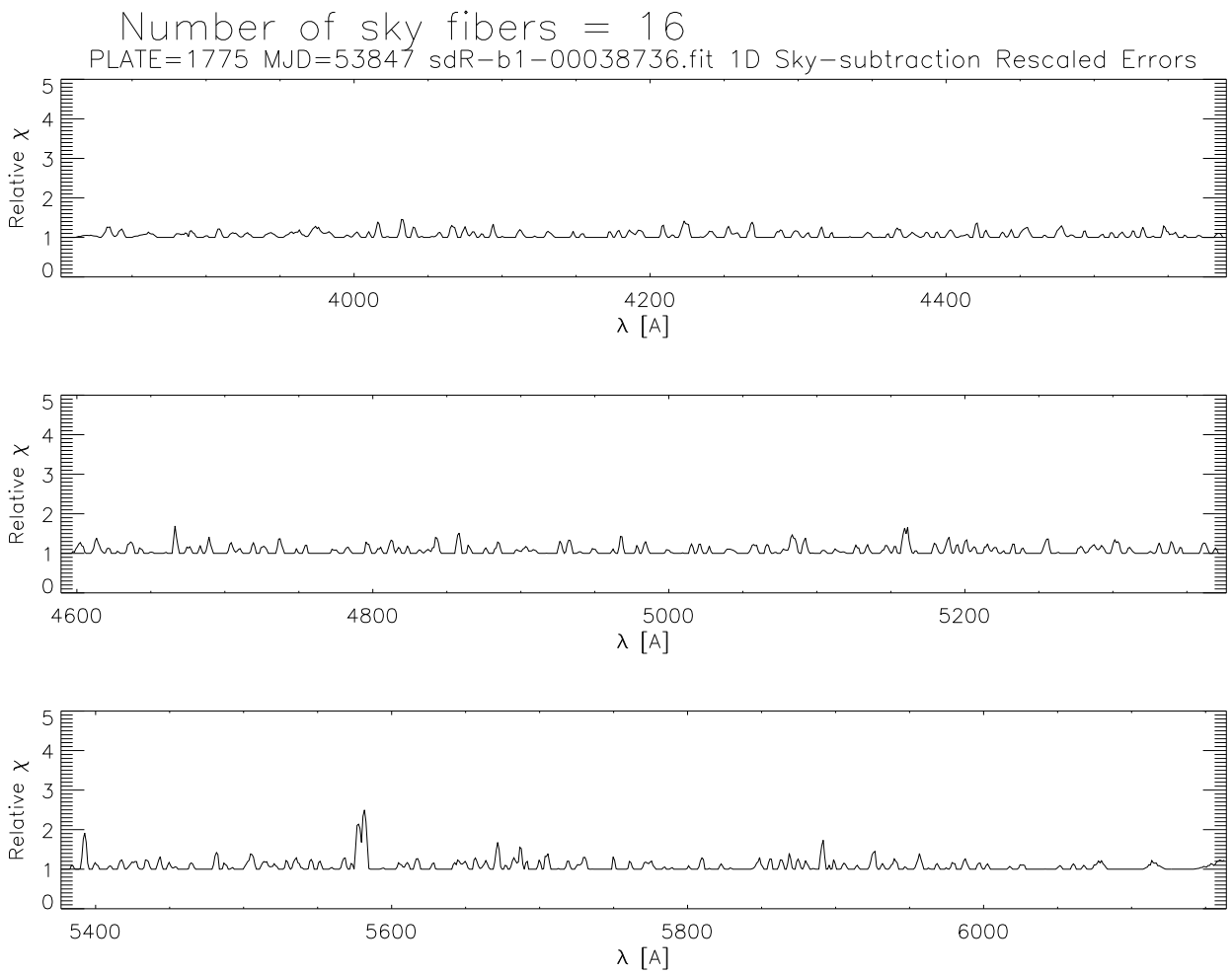
es= 0.0000

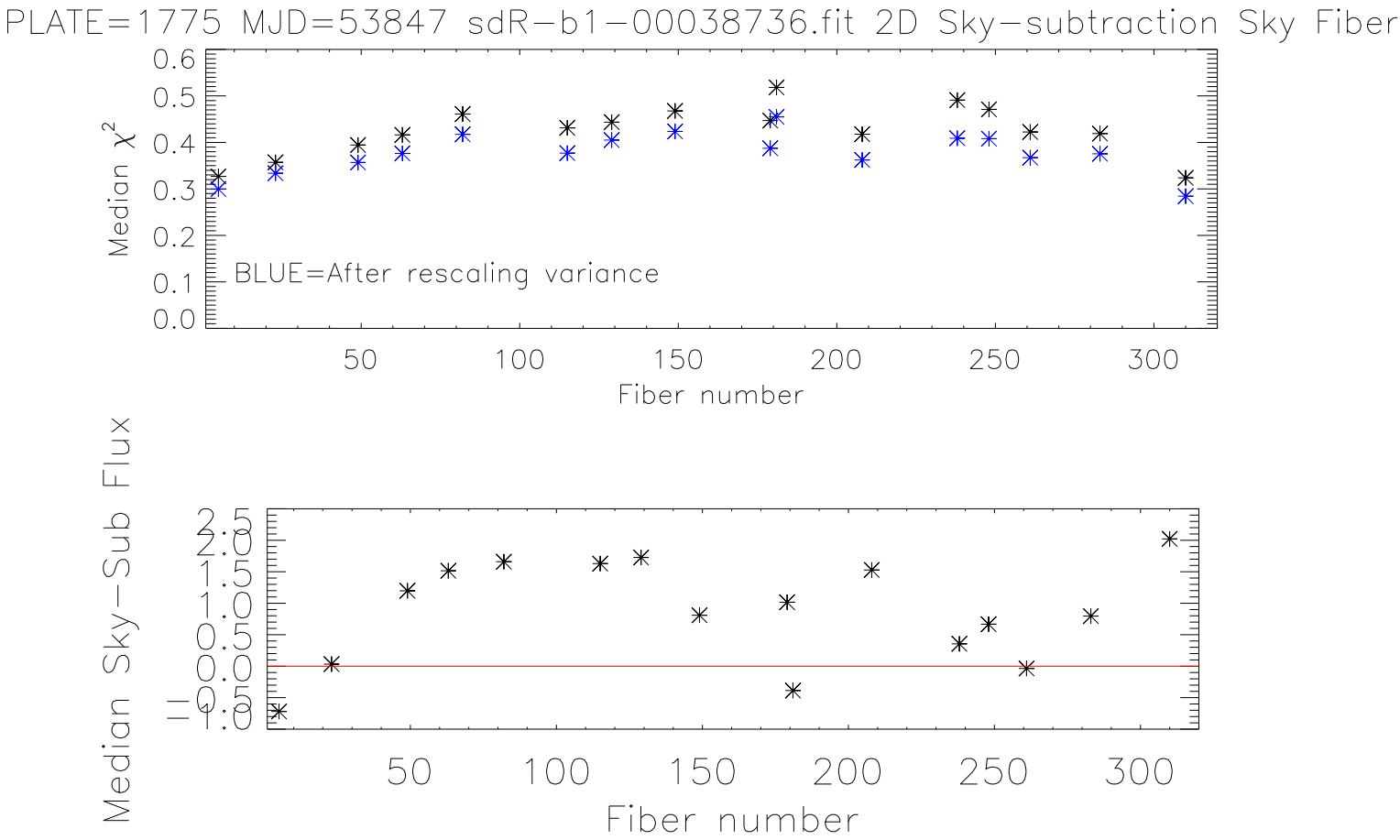

PLATE=1775 MJD=53847 Smooth superflat for sdR-b1-00038736.fit
1.5
1.0
0.5
0.0
1.03
1.02
1.01
1.00
0.99
0.98
4000
4500
5000
5500
6000
Wavelength (Å)

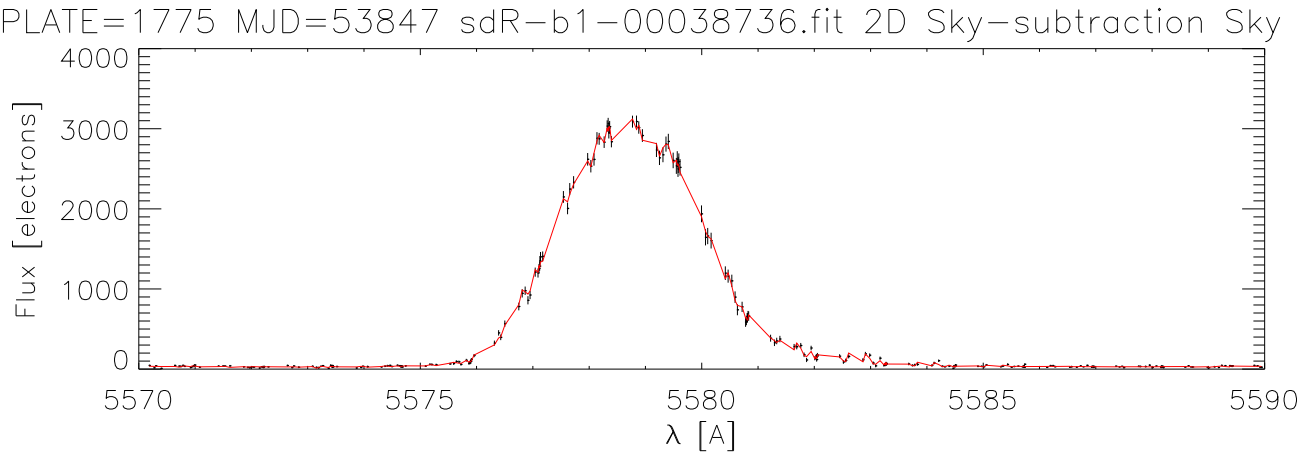

PLATE=1775 MJD=53847 sdR-b1-00038736.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

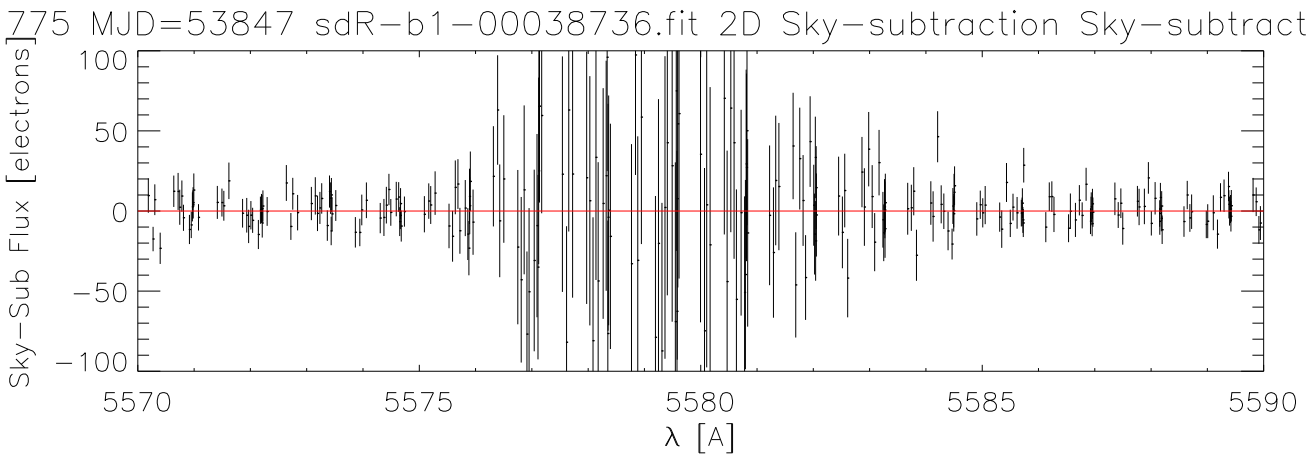

PLATE=1775 MJD=53847 sdR-b1-00038736.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

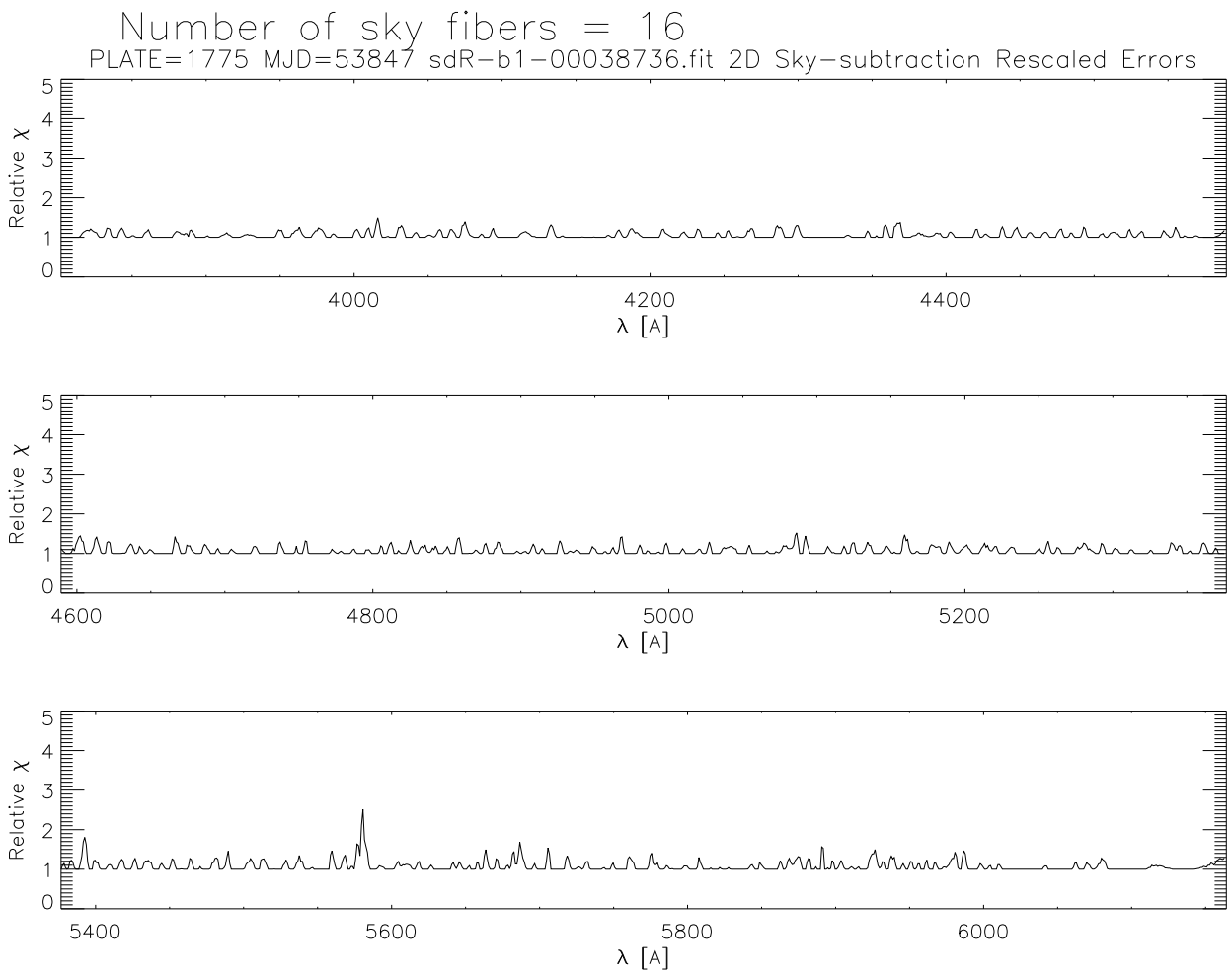

PLATE=1775 MJD=53847 sdR-b1-00038736.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

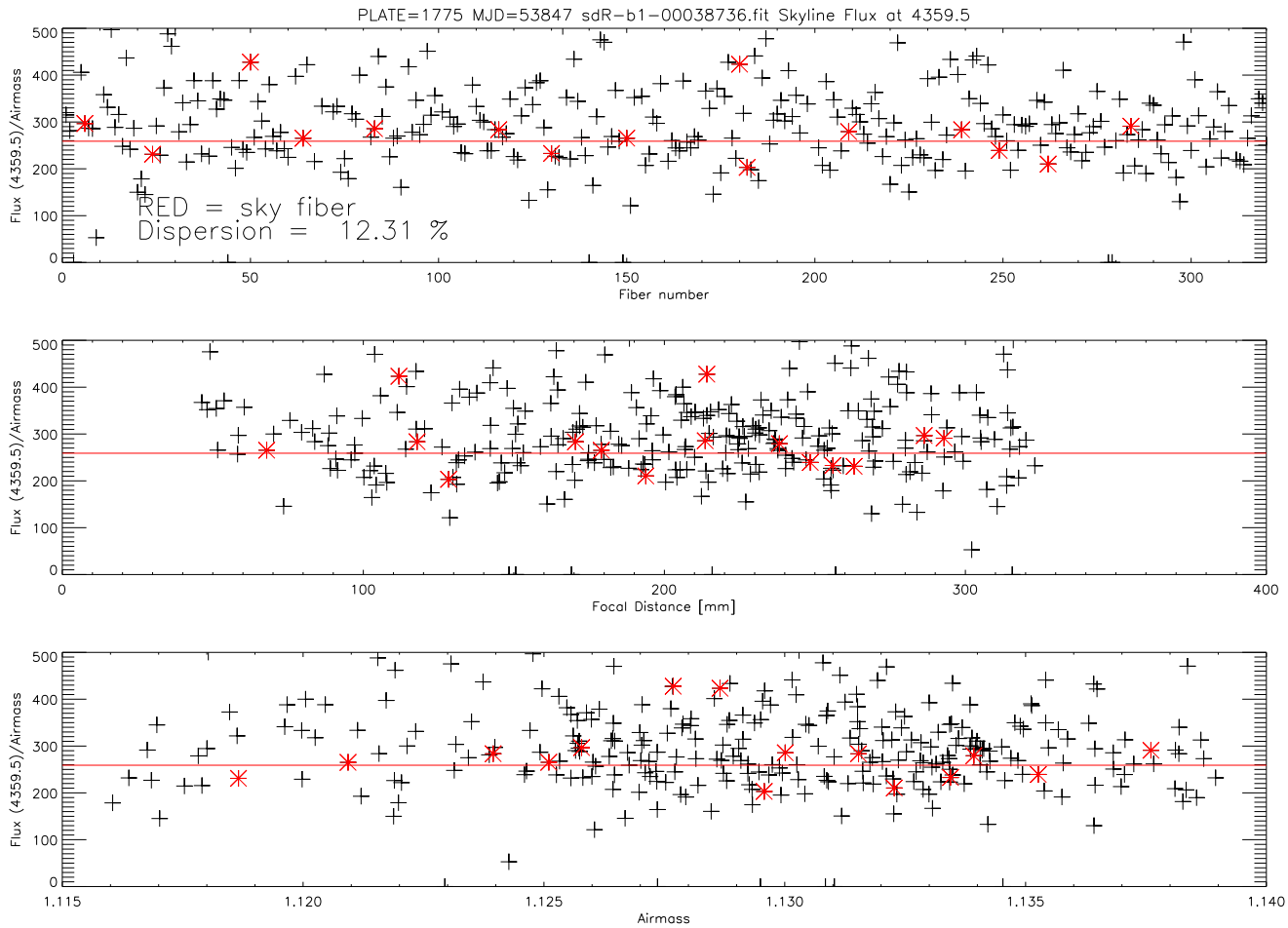

Number of sky fibers = 16
PLATE=1775 MJD=53847 sdR-b1-00038736.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

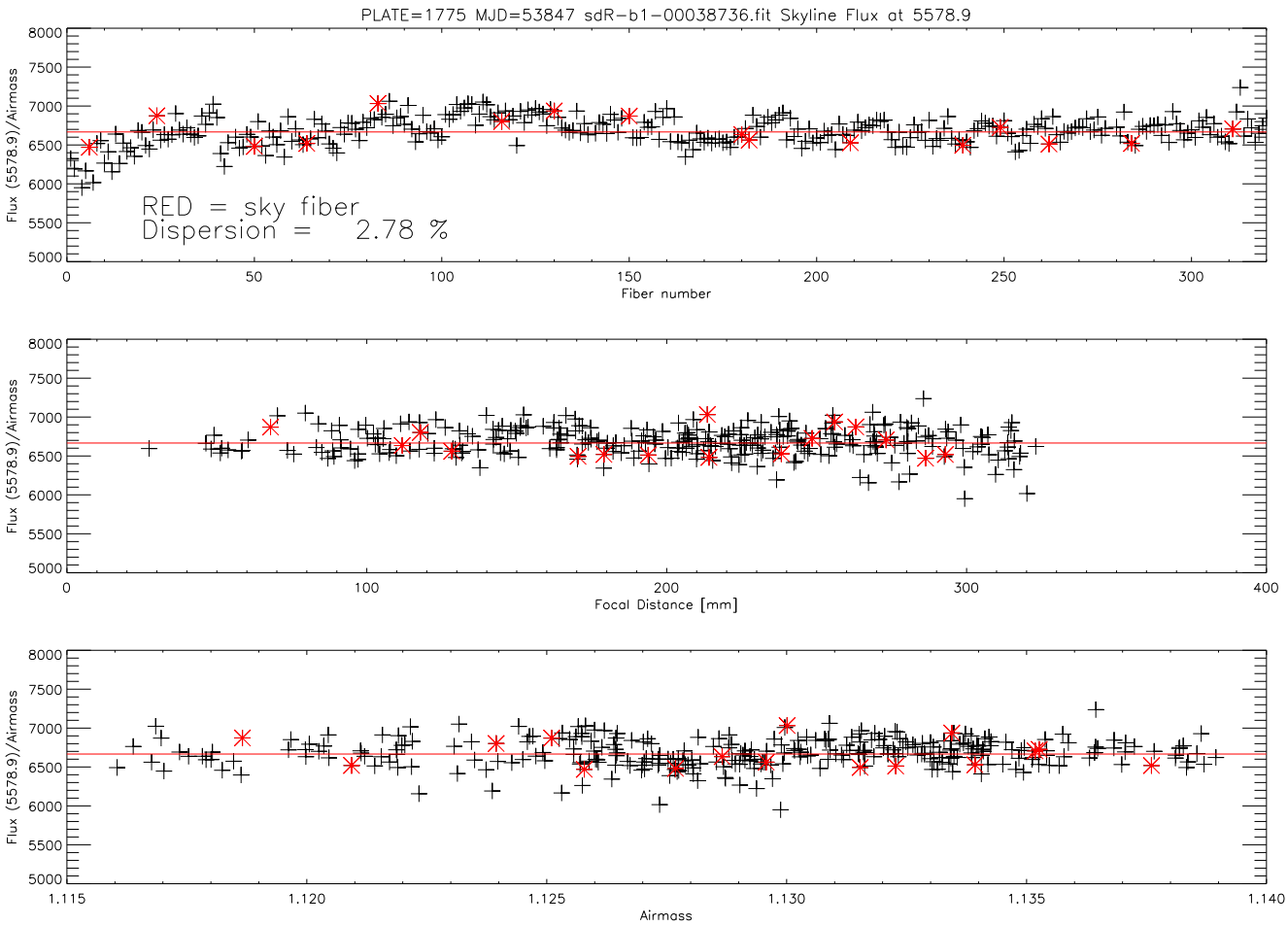

PLATE=1775 MJD=53847 sdR-b1-00038736.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

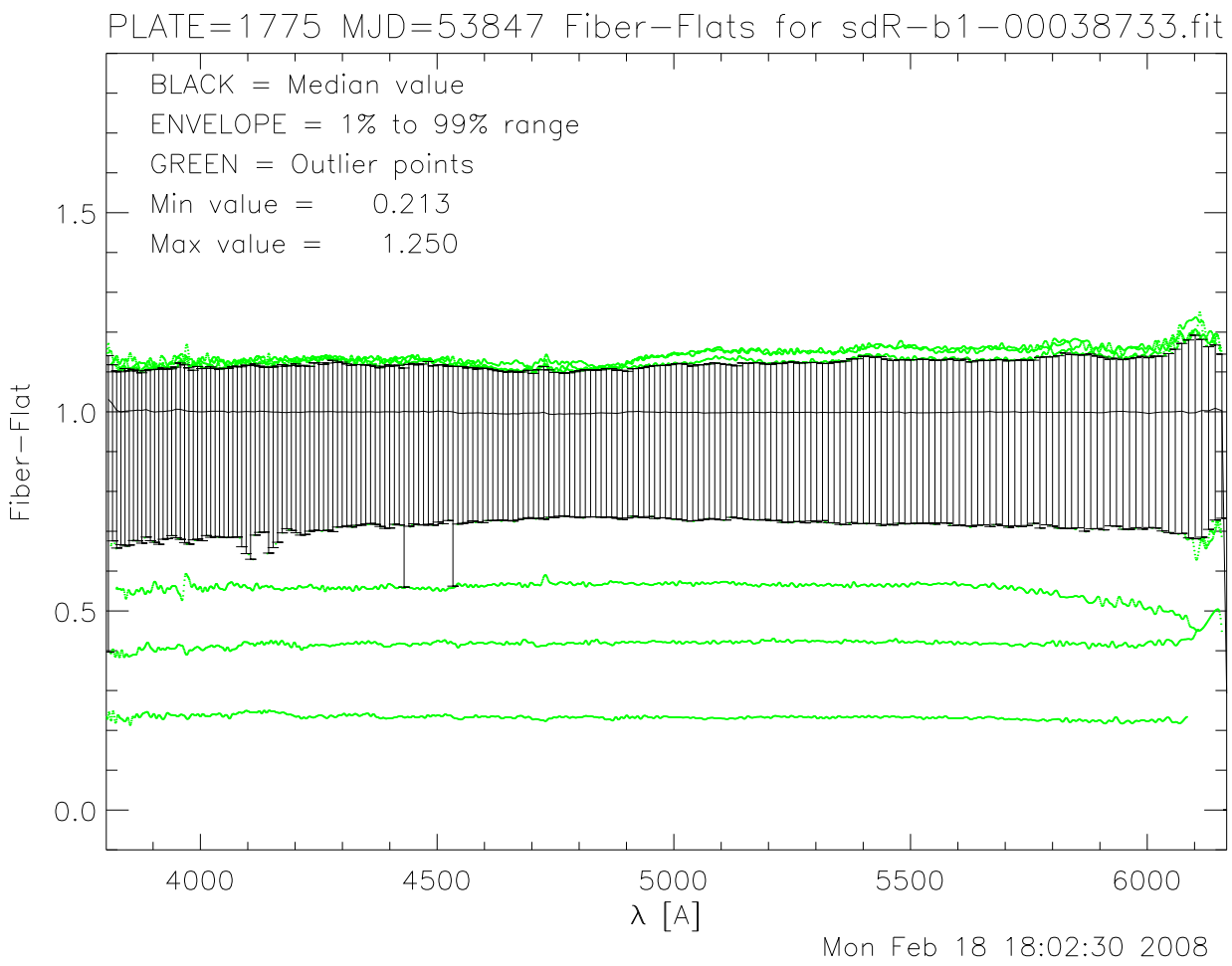

PLATE=1775 MJD=53847 sdR-b1-00038736.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

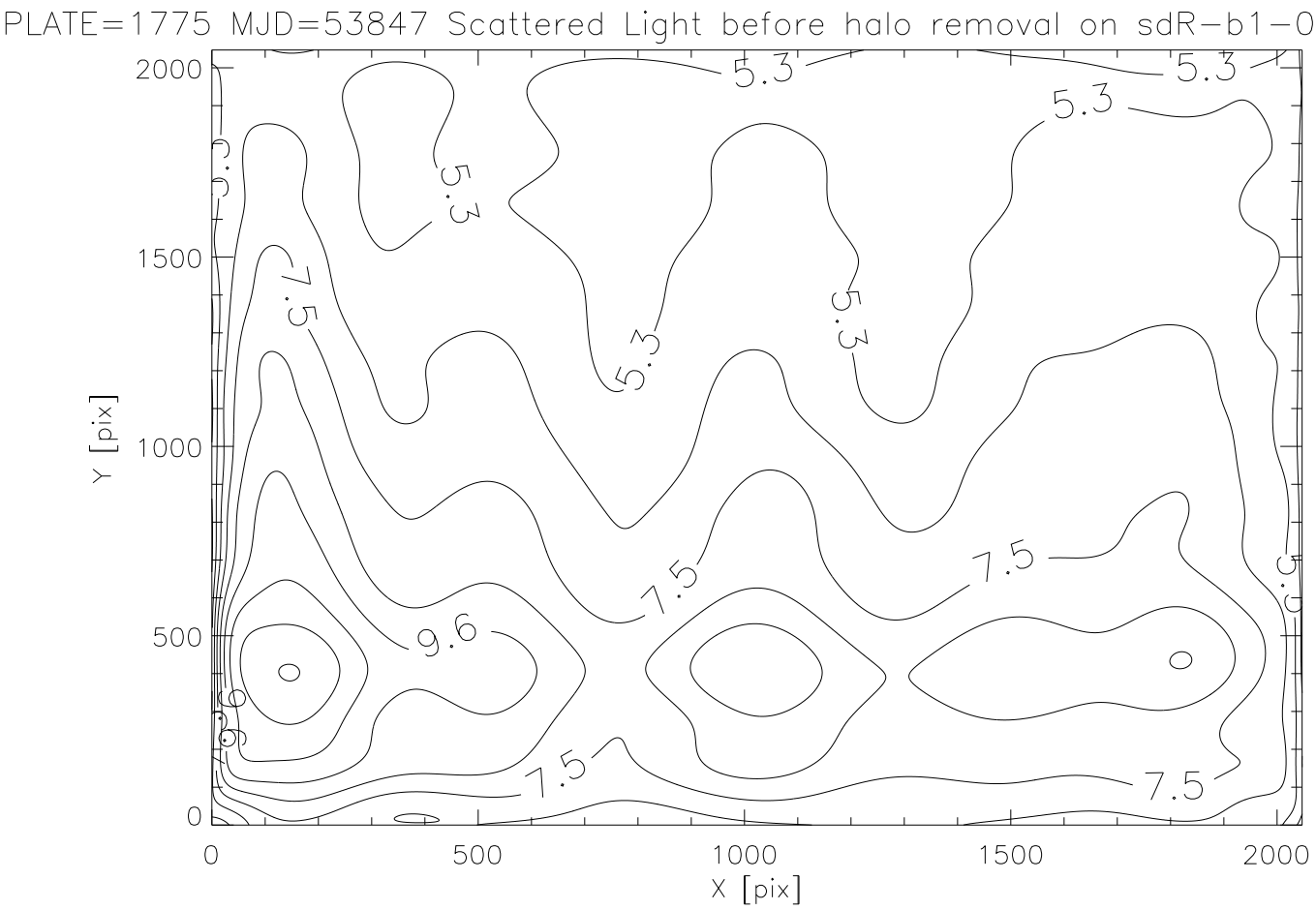

PLATE=1775 MJD=53847 sdR-b1-00038736.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
5570
5575
5580
5585
5590
λ [A]

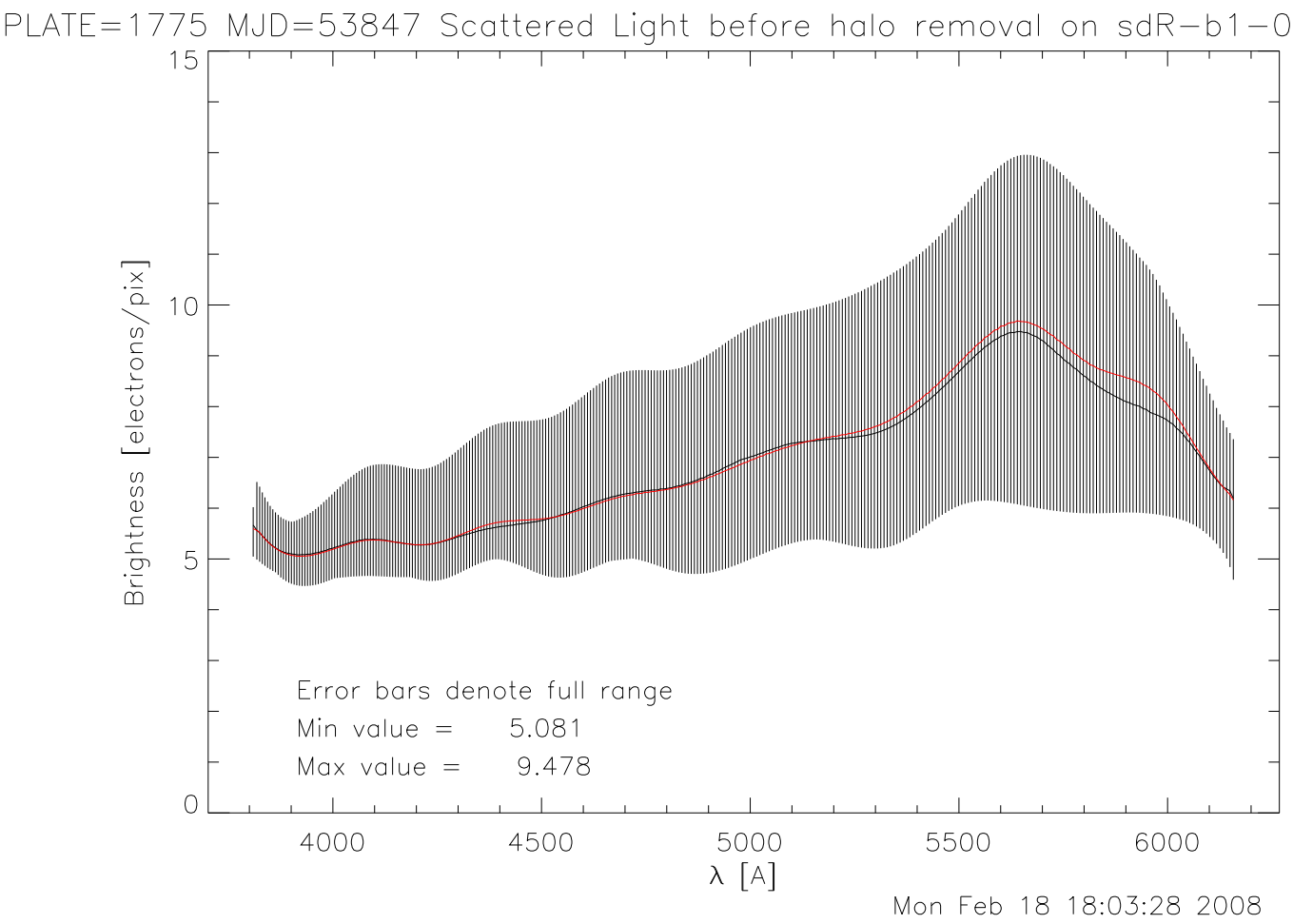

Number of sky fibers = 16
PLATE=1775 MJD=53847 sdR-b1-00038736.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

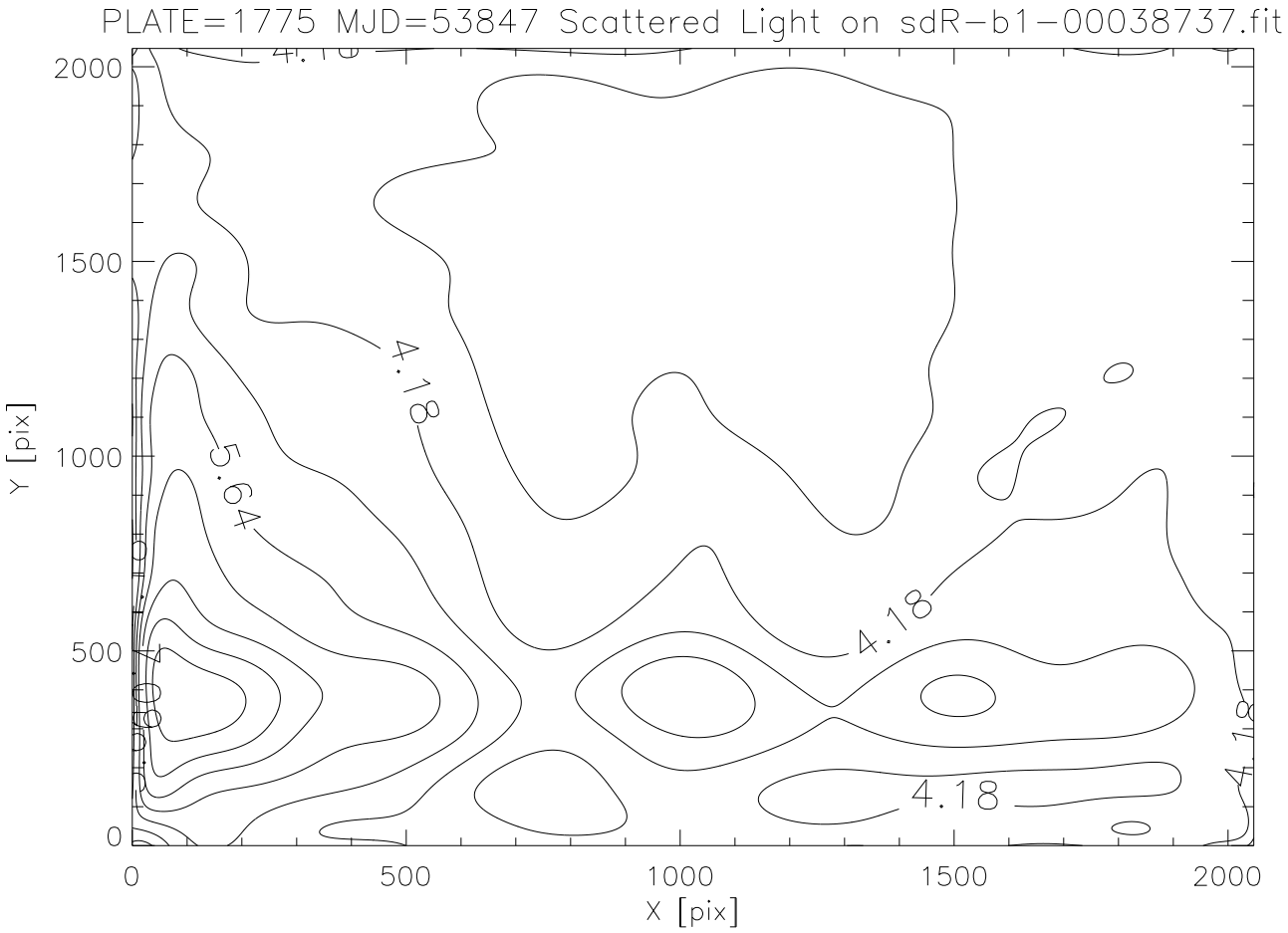

PLATE=1775 MJD=53847 sdR-b1-00038736.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 12.31 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

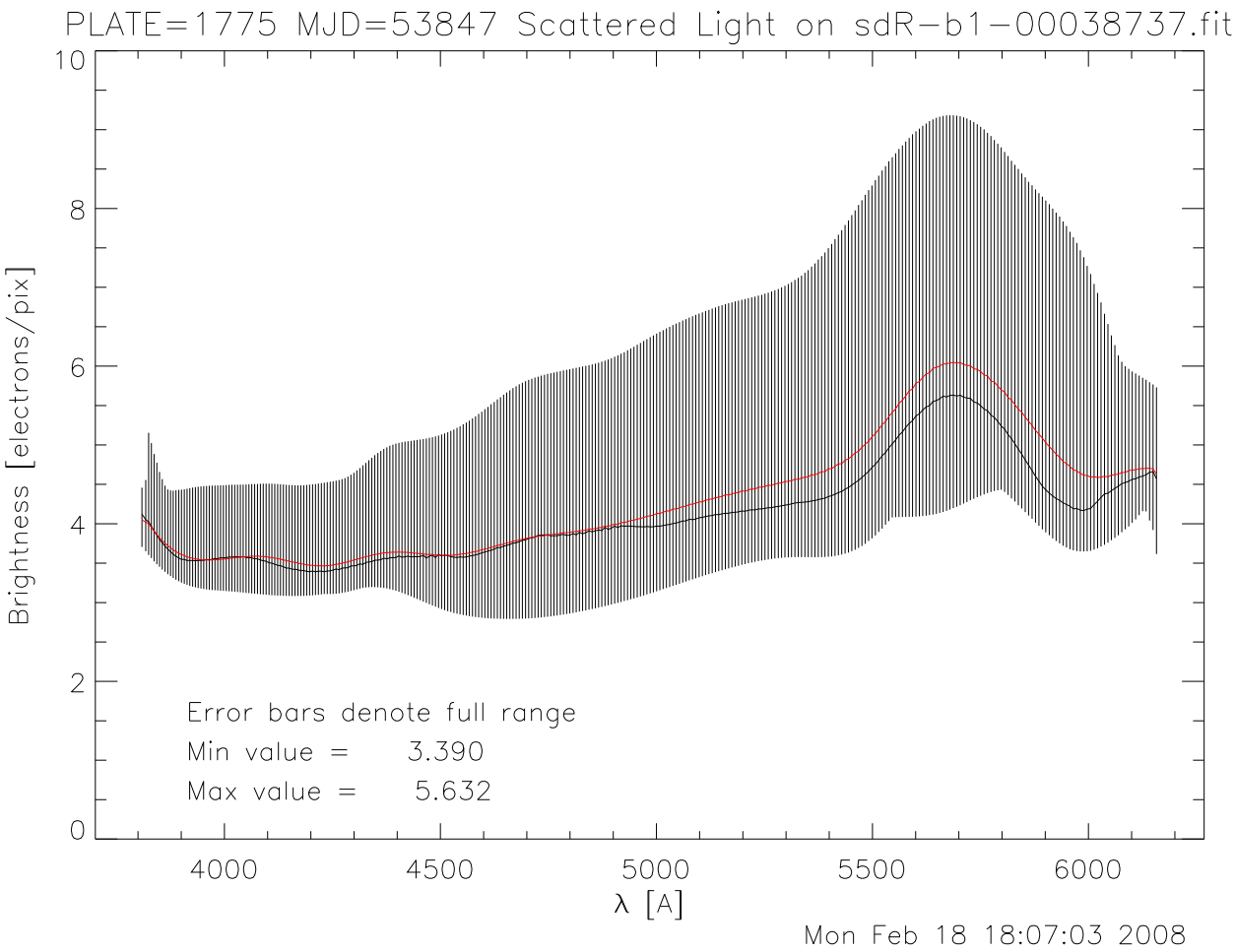

PLATE=1775 MJD=53847 sdR-b1-00038736.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.78 %
Fiber number
Focal Distance [mm]
Airmass

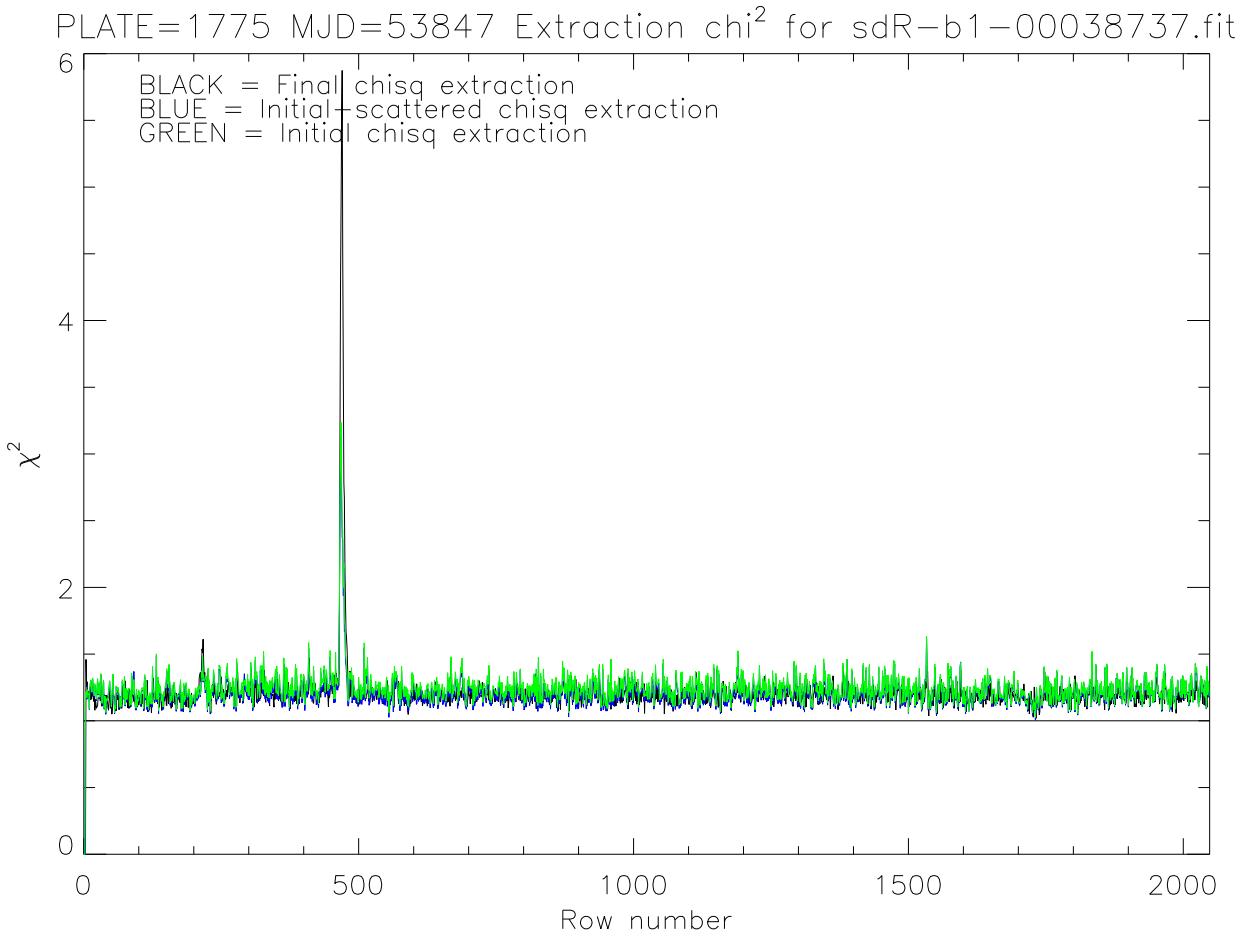

PLATE=1775 MJD=53847 Fiber−Flats for sdR−b1−00038733.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.213
Max value = 1.250
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 18 18:02:30 2008

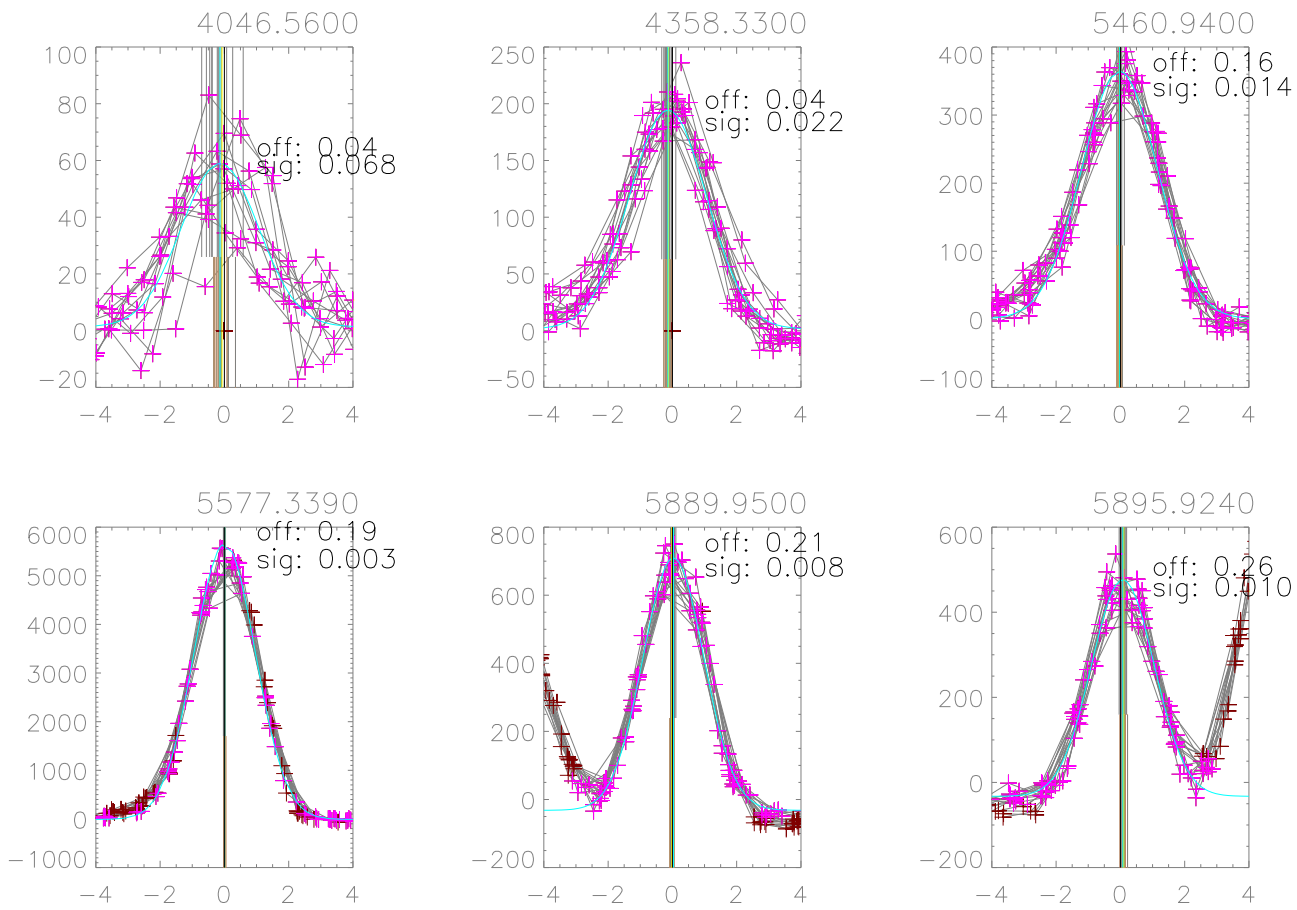

PLATE=1775 MJD=53847 Scattered Light before halo removal on sdR−b1−00038737.f
Y [pix]
X [pix]
0
500
1000
1500
2000
5.3
7.5
9.6

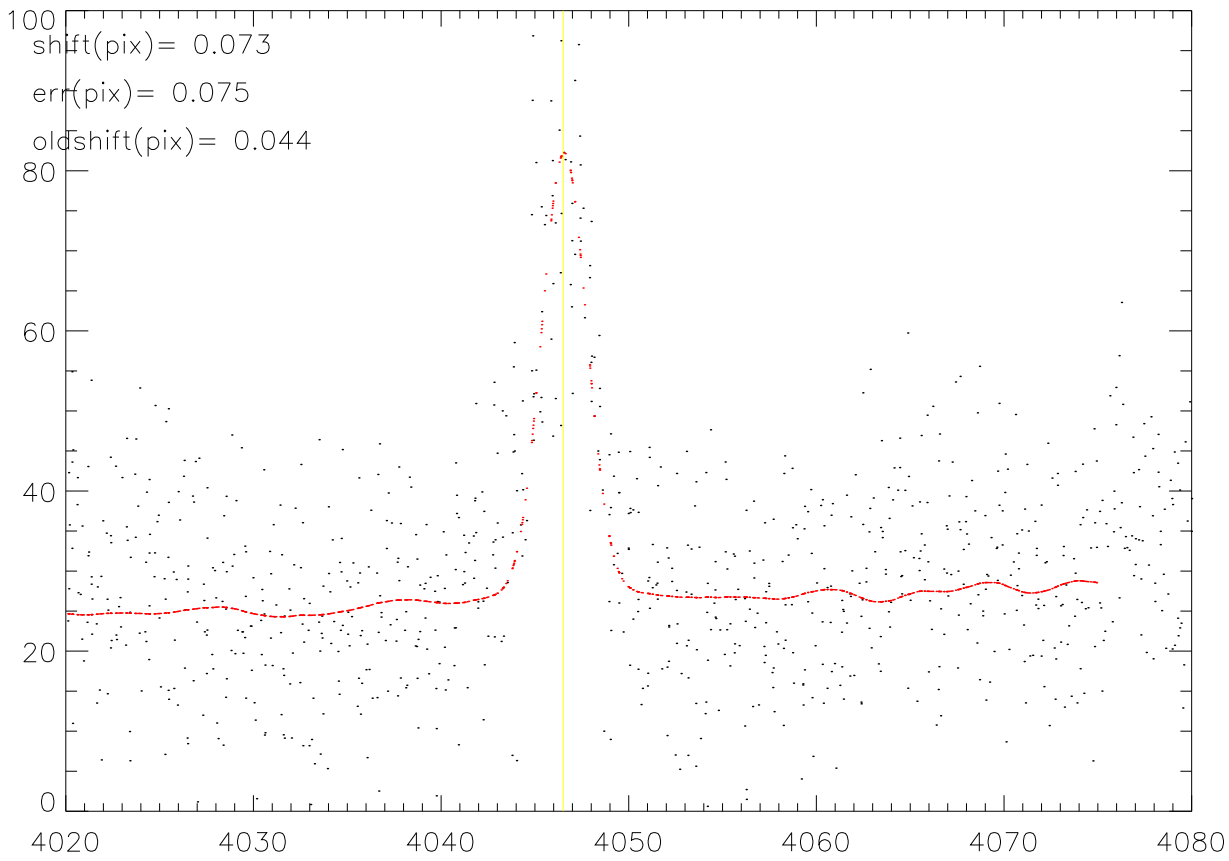

PLATE=1775 MJD=53847 Scattered Light before halo removal on sdR-b1-00038737.f
Brightness [electrons/pix]
15
10
5
0
Error bars denote full range
Min value = 5.081
Max value = 9.478
4000
4500
5000
5500
6000
λ [A]
Mon Feb 18 18:03:28 2008

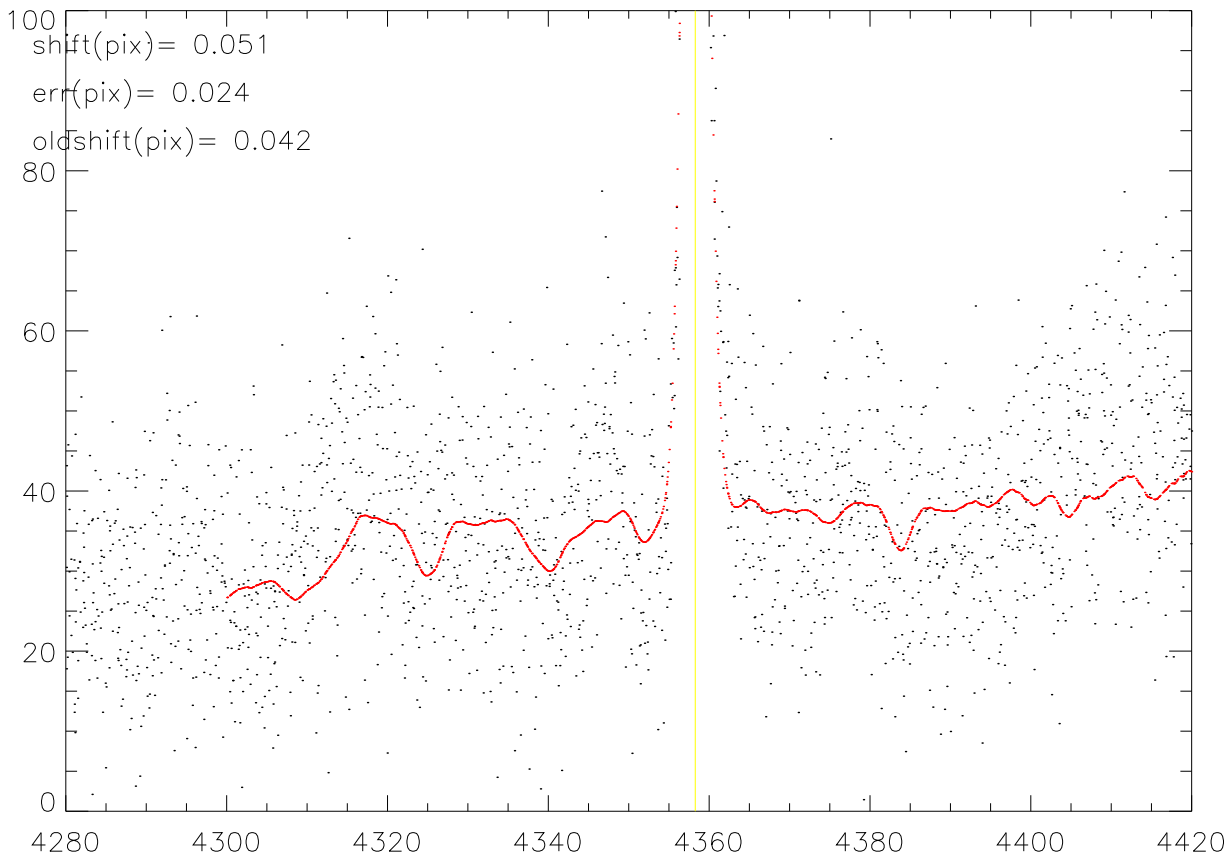

PLATE=1775 MJD=53847 Scattered Light on sdR-b1-00038737.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
4.18
5.64
4.18
0
4.18
4.18
0

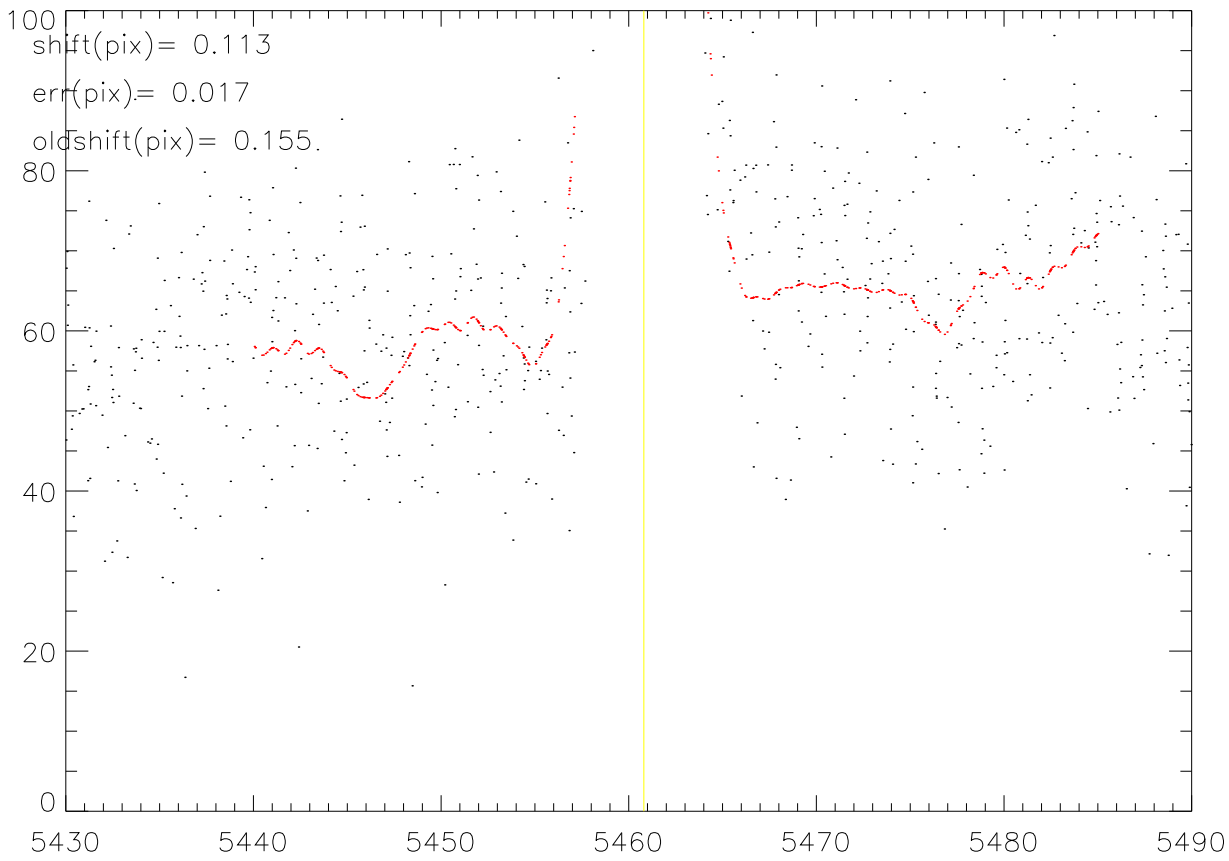

PLATE=1775 MJD=53847 Scattered Light on sdR-b1-00038737.fit
Brightness [electrons/pix]
10
8
6
4
2
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 3.390
Max value = 5.632
Mon Feb 18 18:07:03 2008

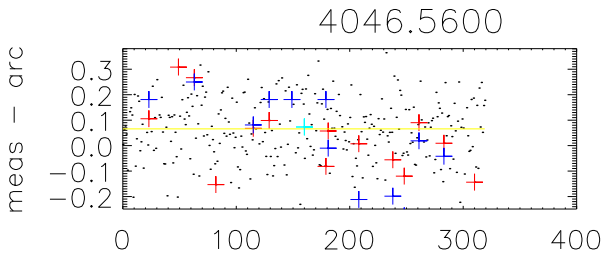

PLATE=1775 MJD=53847 Extraction chi^2 for sdR-b1-00038737.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
0
500
1000
1500
2000
Row number

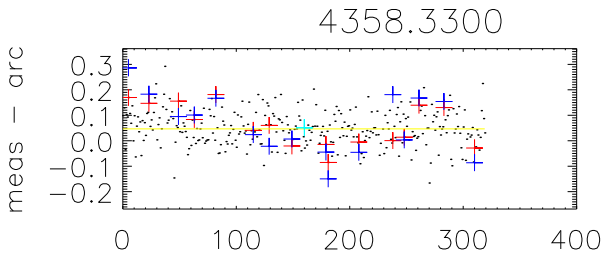

4046.5600
off: 0.04
sig: 0.068
4358.3300
off: 0.04
sig: 0.022
5460.9400
off: 0.16
sig: 0.014
5577.3390
off: 0.19
sig: 0.003
5889.9500
off: 0.21
sig: 0.008
5895.9240
off: 0.26
sig: 0.010

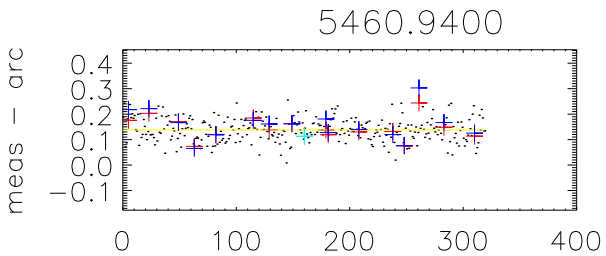

shift(pix)= 0.073
err(pix)= 0.075
oldshift(pix)= 0.044
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

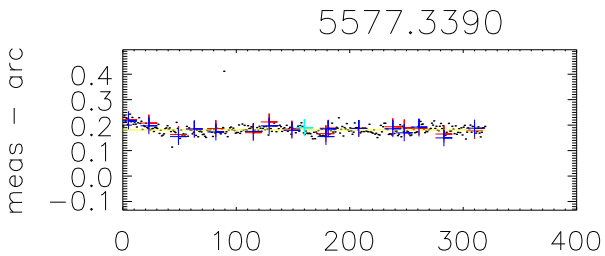

shift(pix)= 0.051
err(pix)= 0.024
oldshift(pix)= 0.042
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

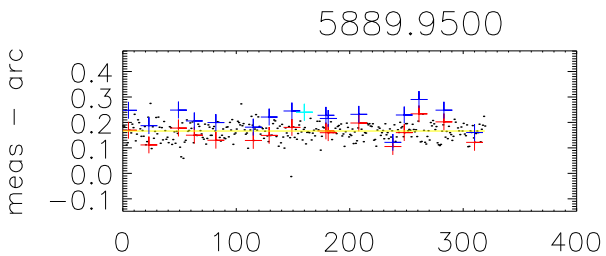

shift(pix)= 0.113
err(pix)= 0.017
oldshift(pix)= 0.155
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

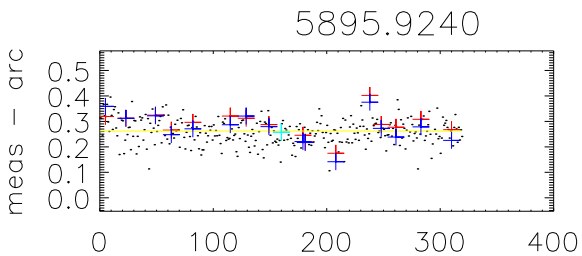

4046.5600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

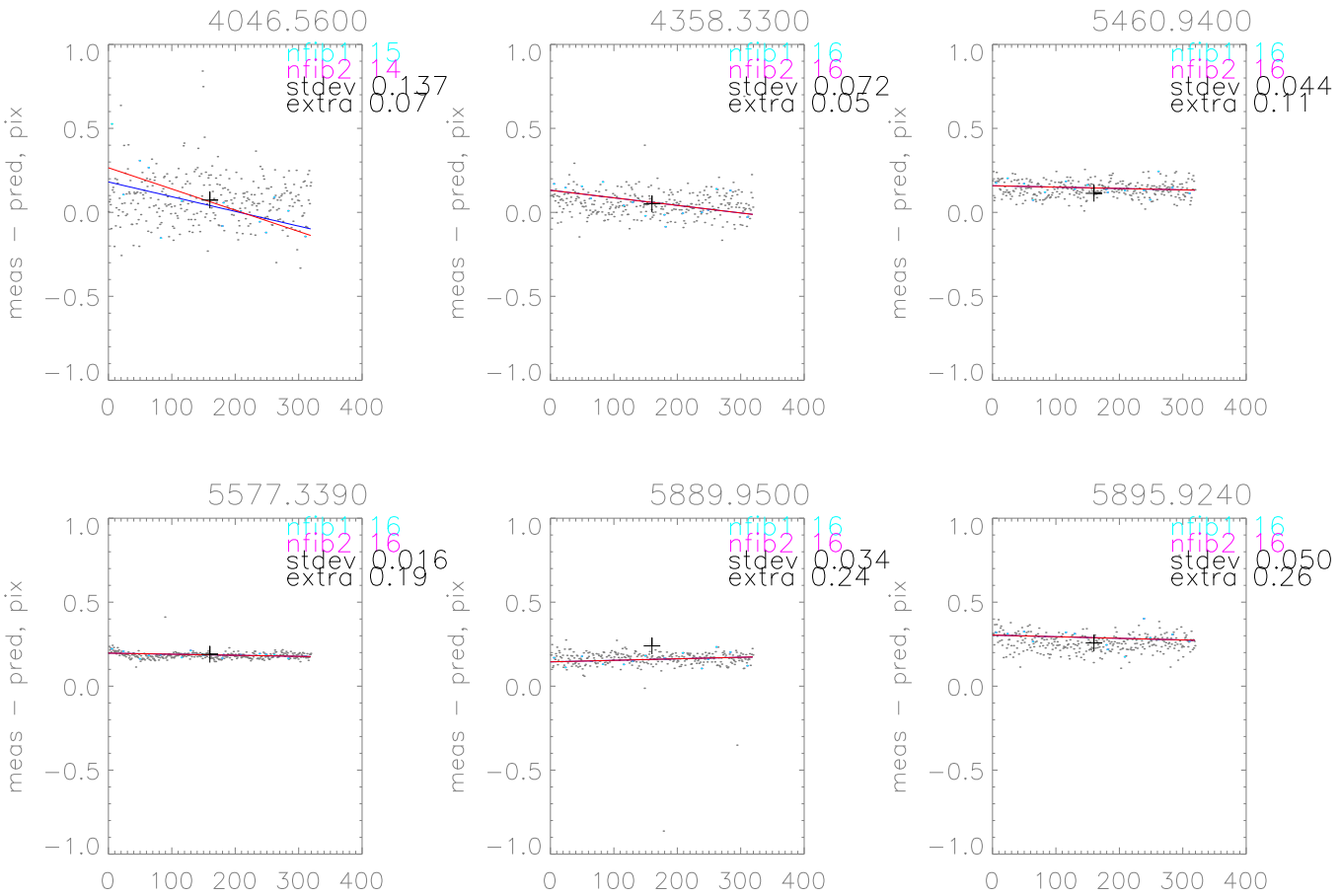

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

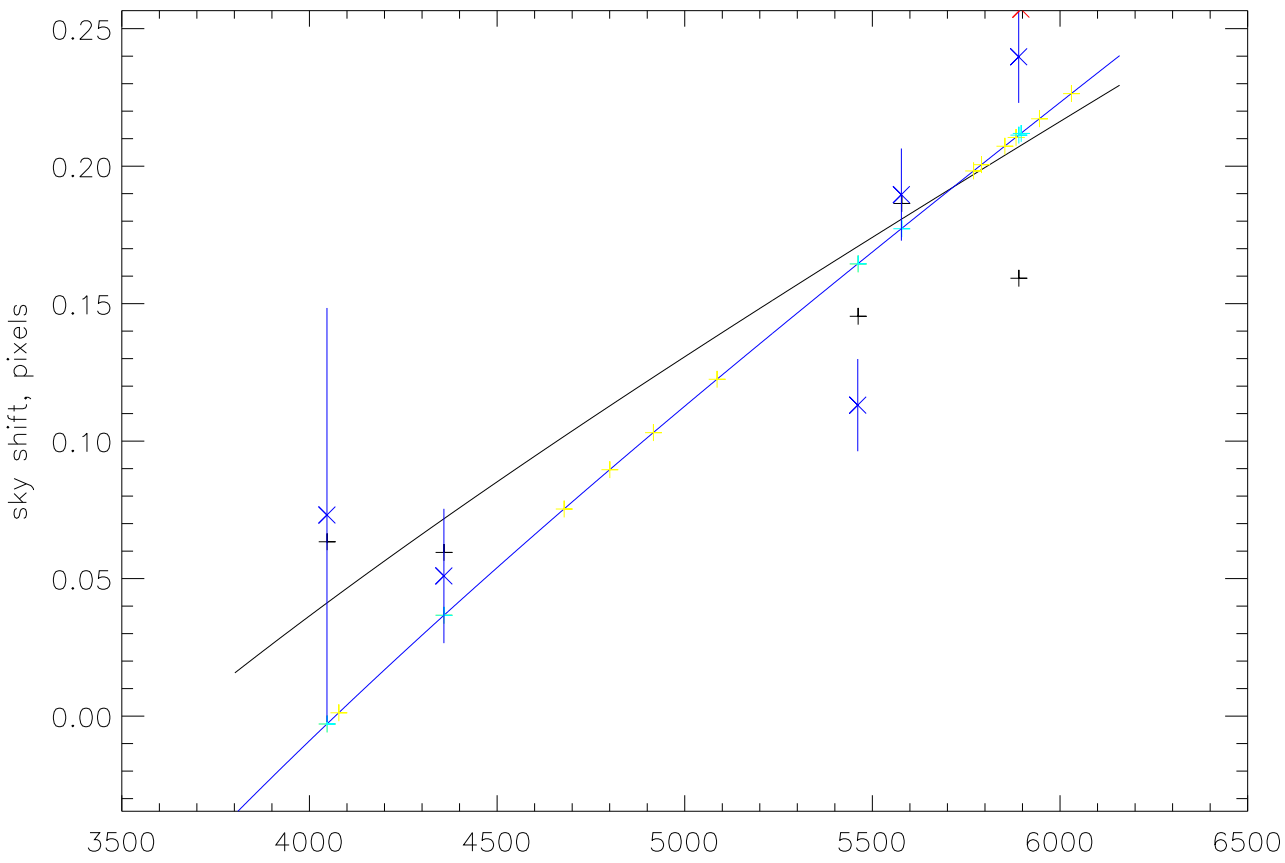

5460.9400
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

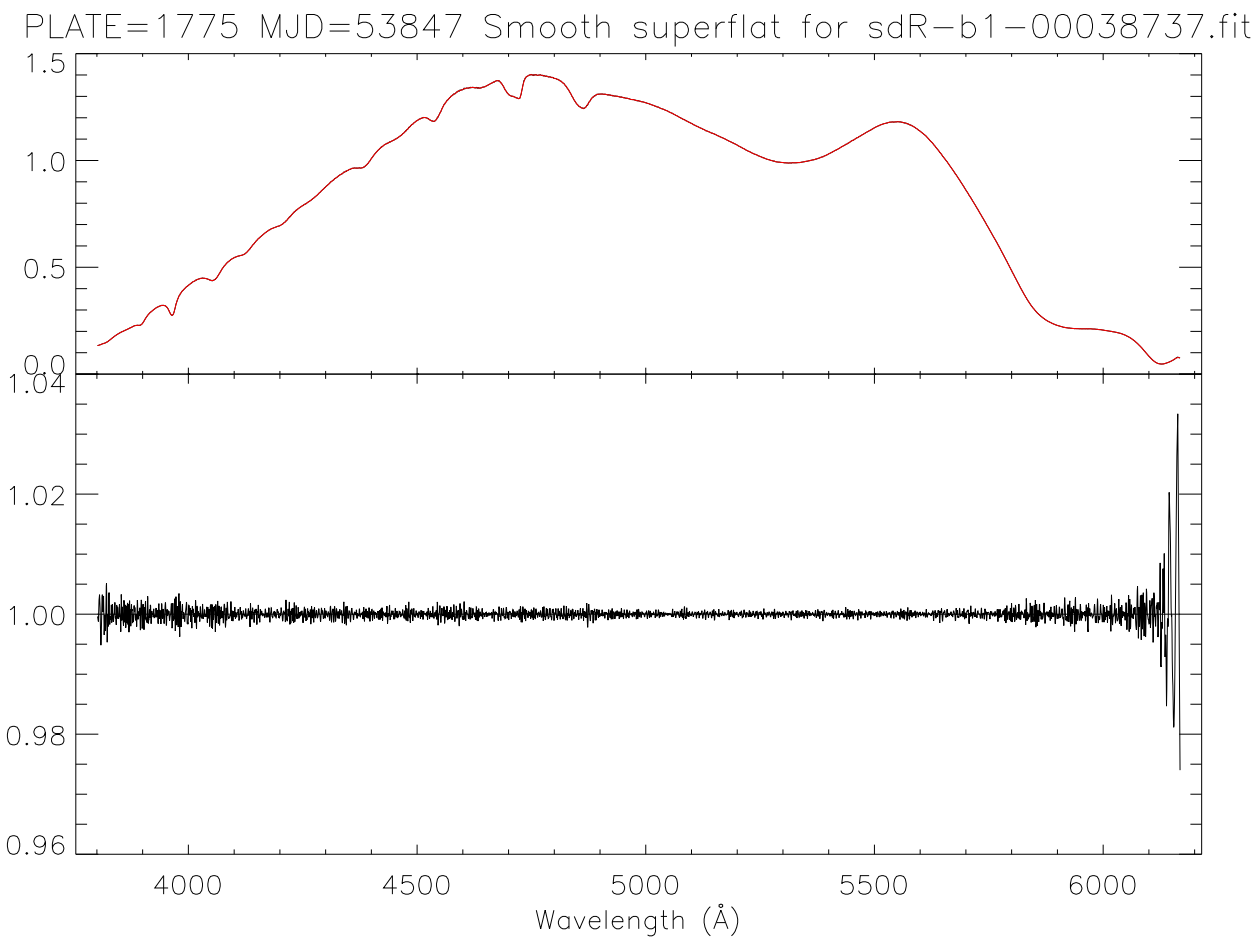

5889.9500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

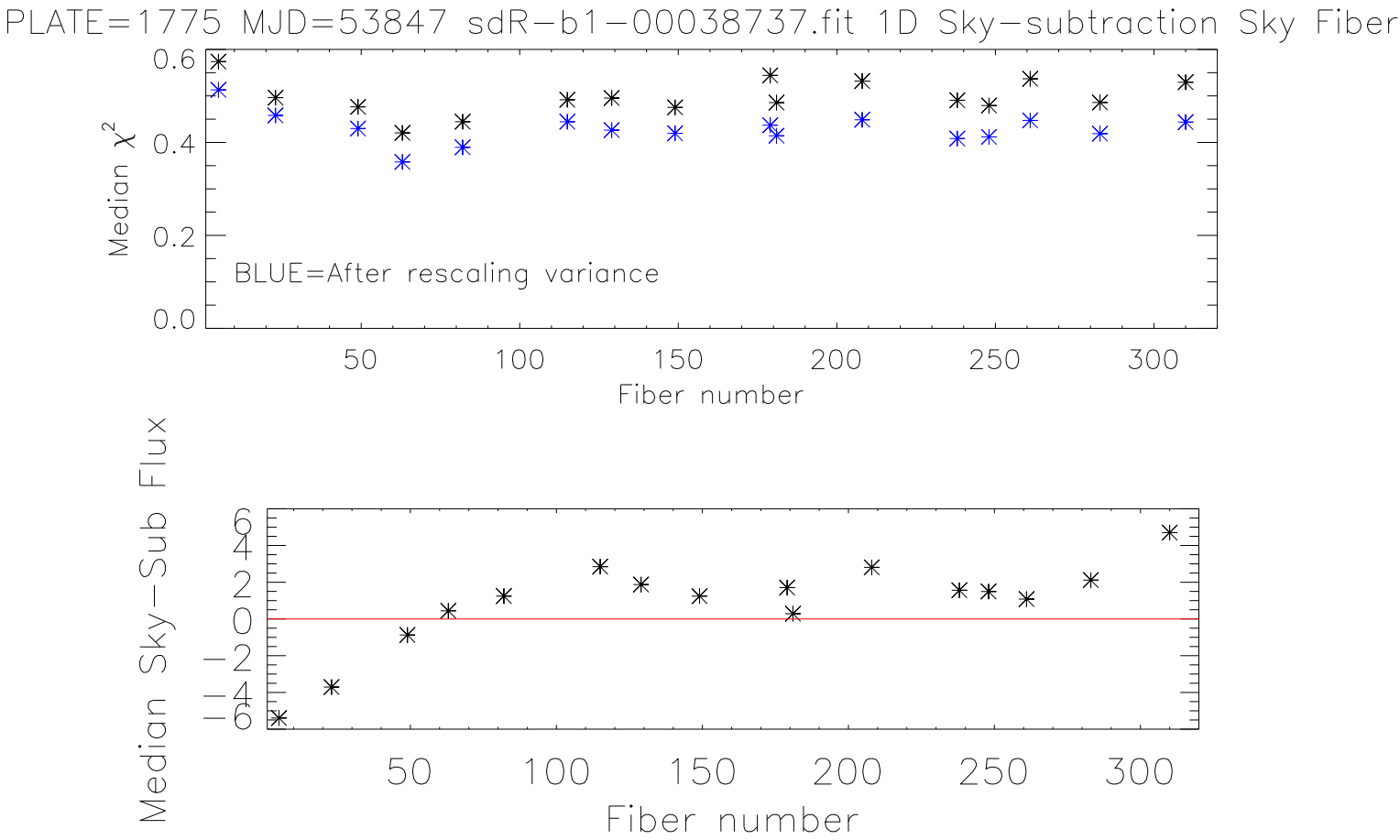

5895.9240
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

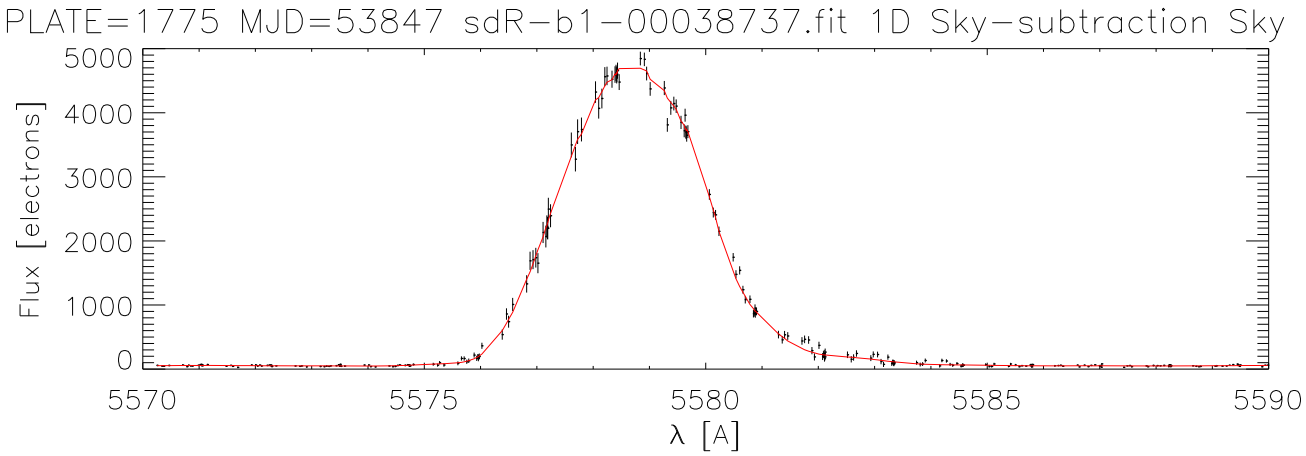

4046.5600
nfib1 15
nfib2 14
stdev 0.137
extra 0.07
4358.3300
nfib1 16
nfib2 16
stdev 0.072
extra 0.05
5460.9400
nfib1 16
nfib2 16
stdev 0.044
extra 0.11
5577.3390
nfib1 16
nfib2 16
stdev 0.016
extra 0.19
5889.9500
nfib1 16
nfib2 16
stdev 0.034
extra 0.24
5895.9240
nfib1 16
nfib2 16
stdev 0.050
extra 0.26
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

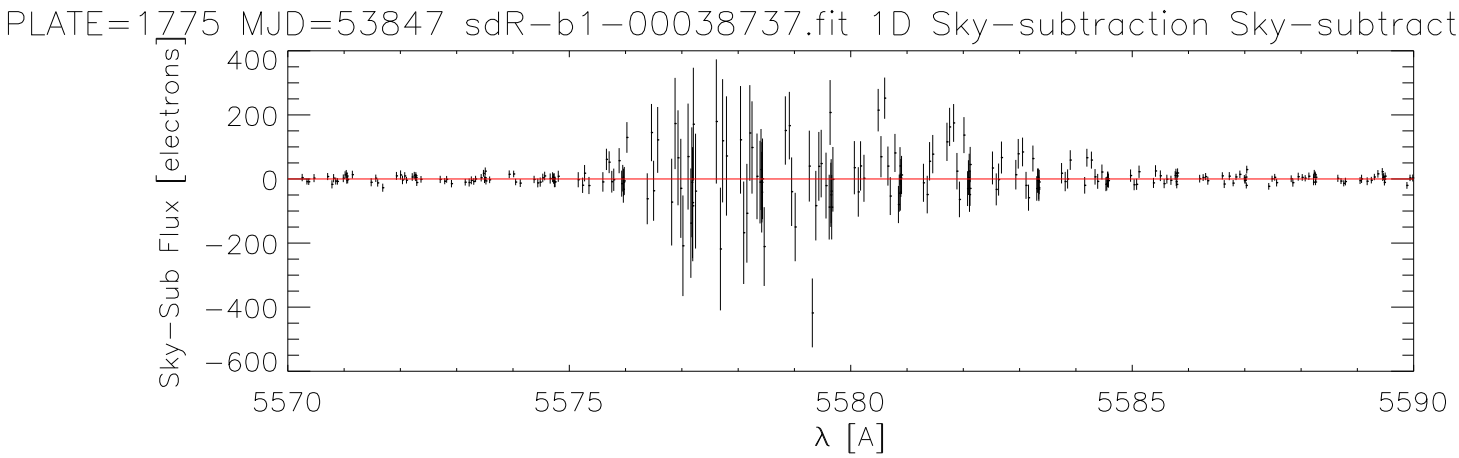

0.25
0.20
0.15
0.10
0.05
0.00
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

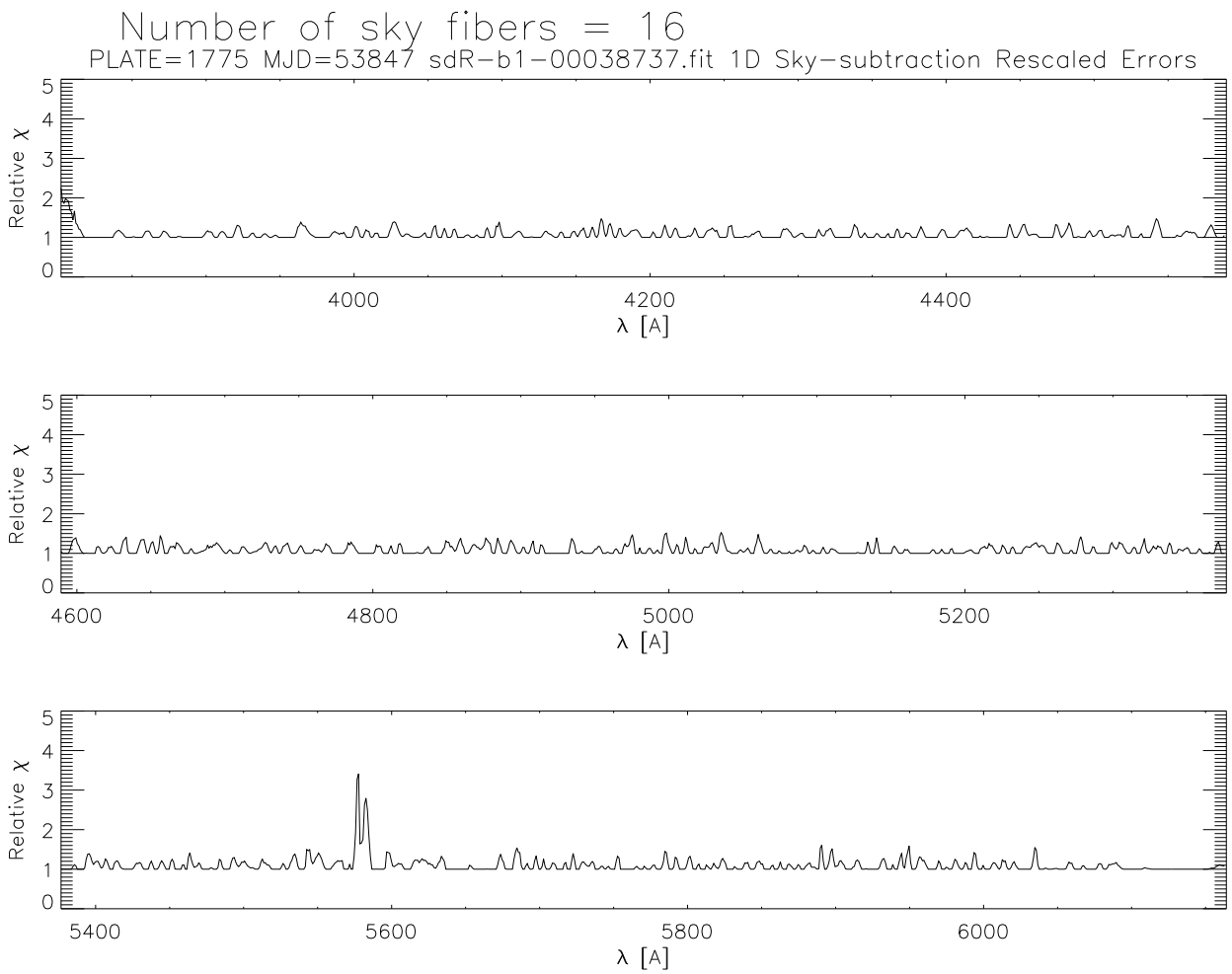
es= 0.0000

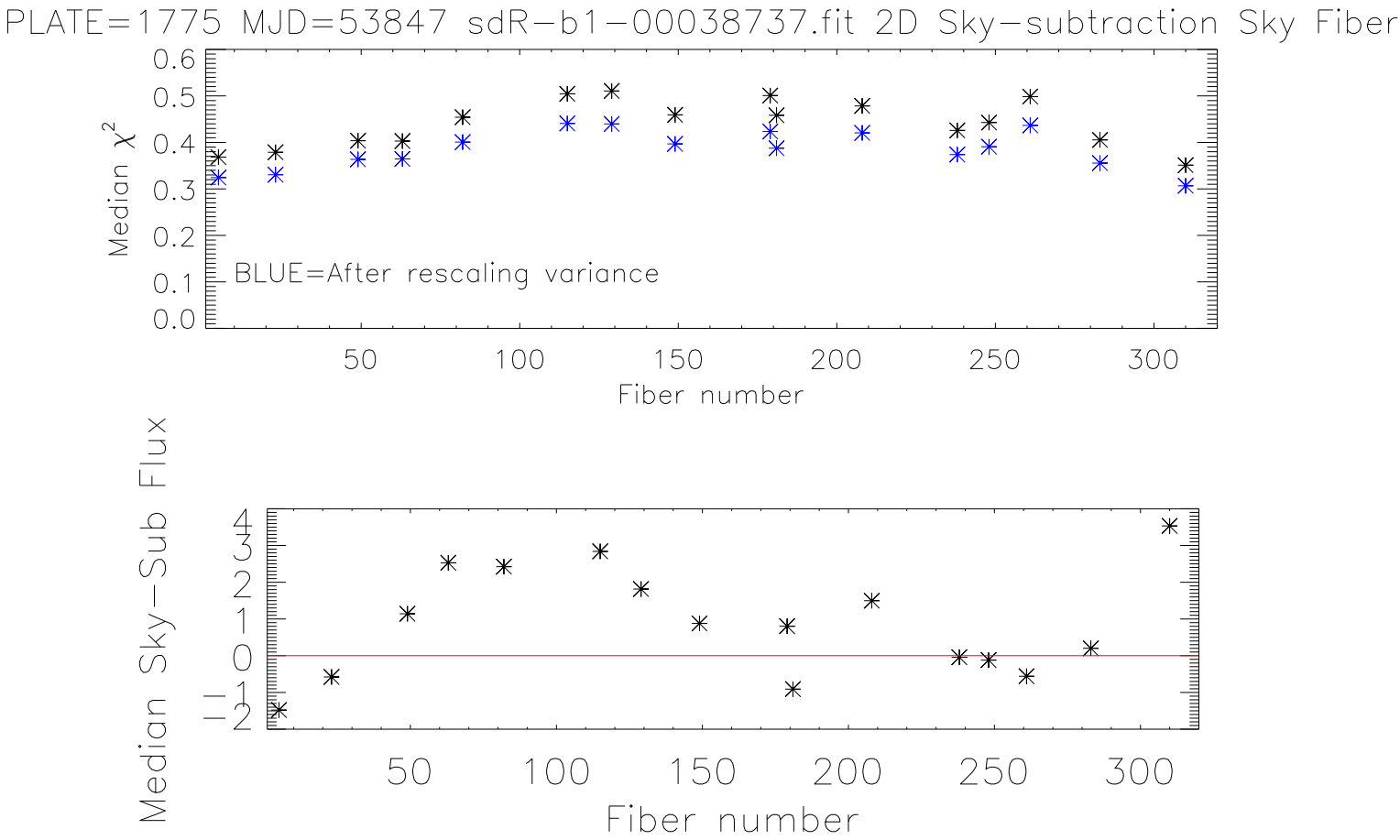

PLATE=1775 MJD=53847 Smooth superflat for sdR-b1-00038737.fit
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
4000
4500
5000
5500
6000
Wavelength (Å)

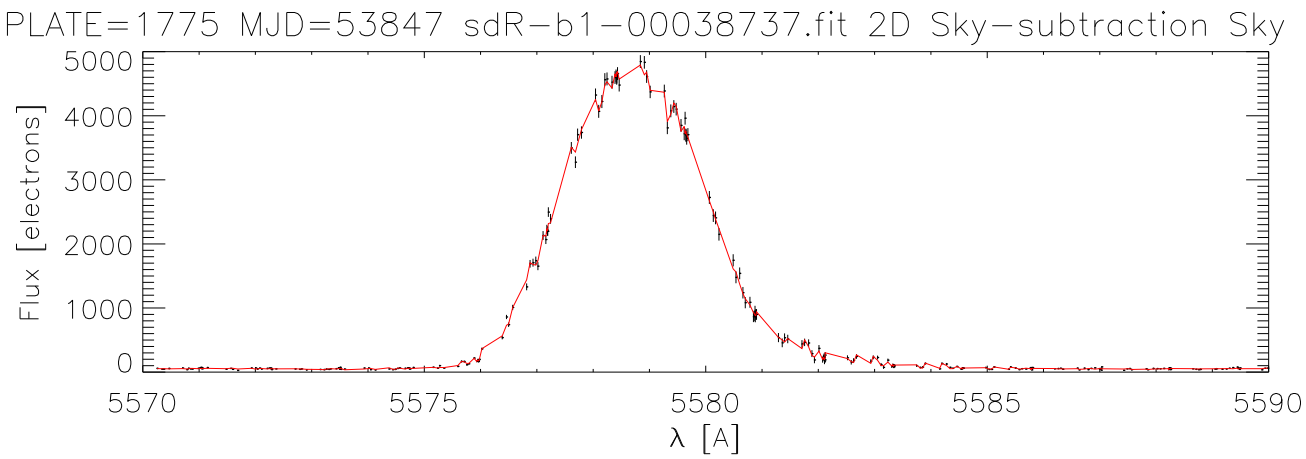

PLATE=1775 MJD=53847 sdR-b1-00038737.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

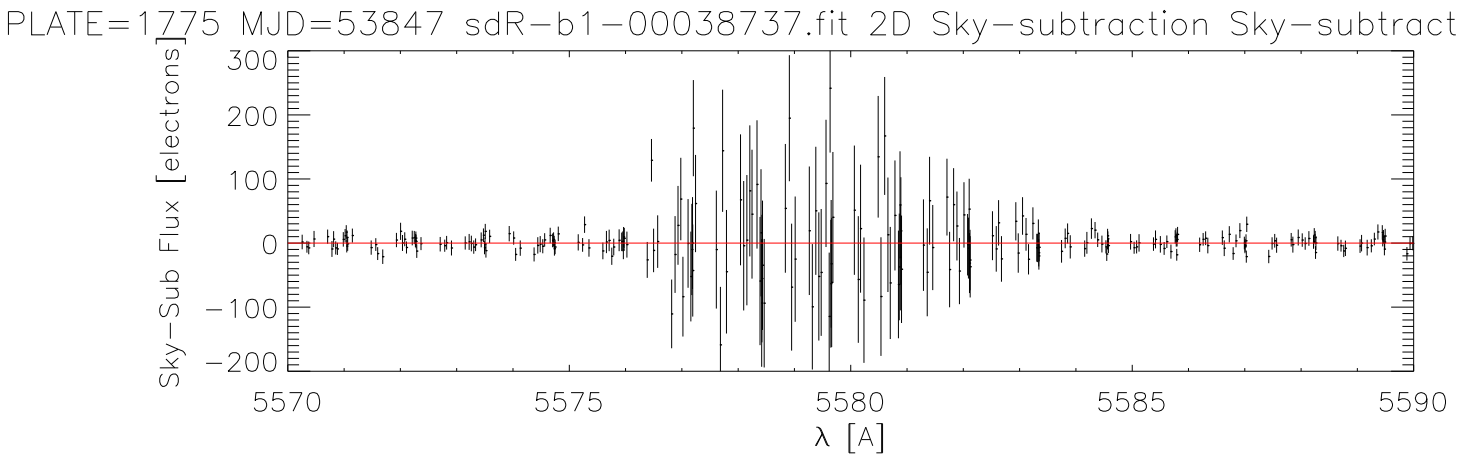

PLATE=1775 MJD=53847 sdR-b1-00038737.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

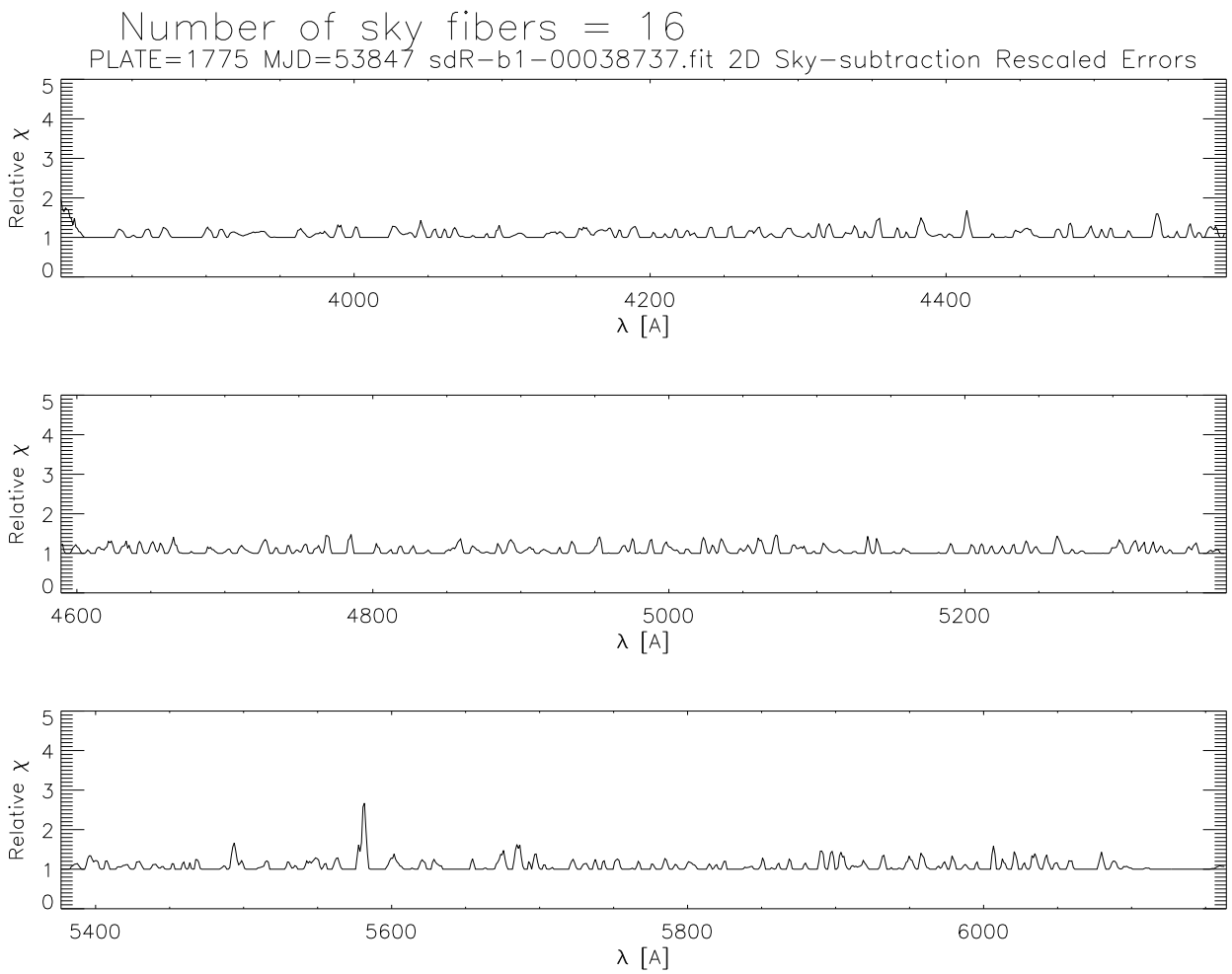

PLATE=1775 MJD=53847 sdR-b1-00038737.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

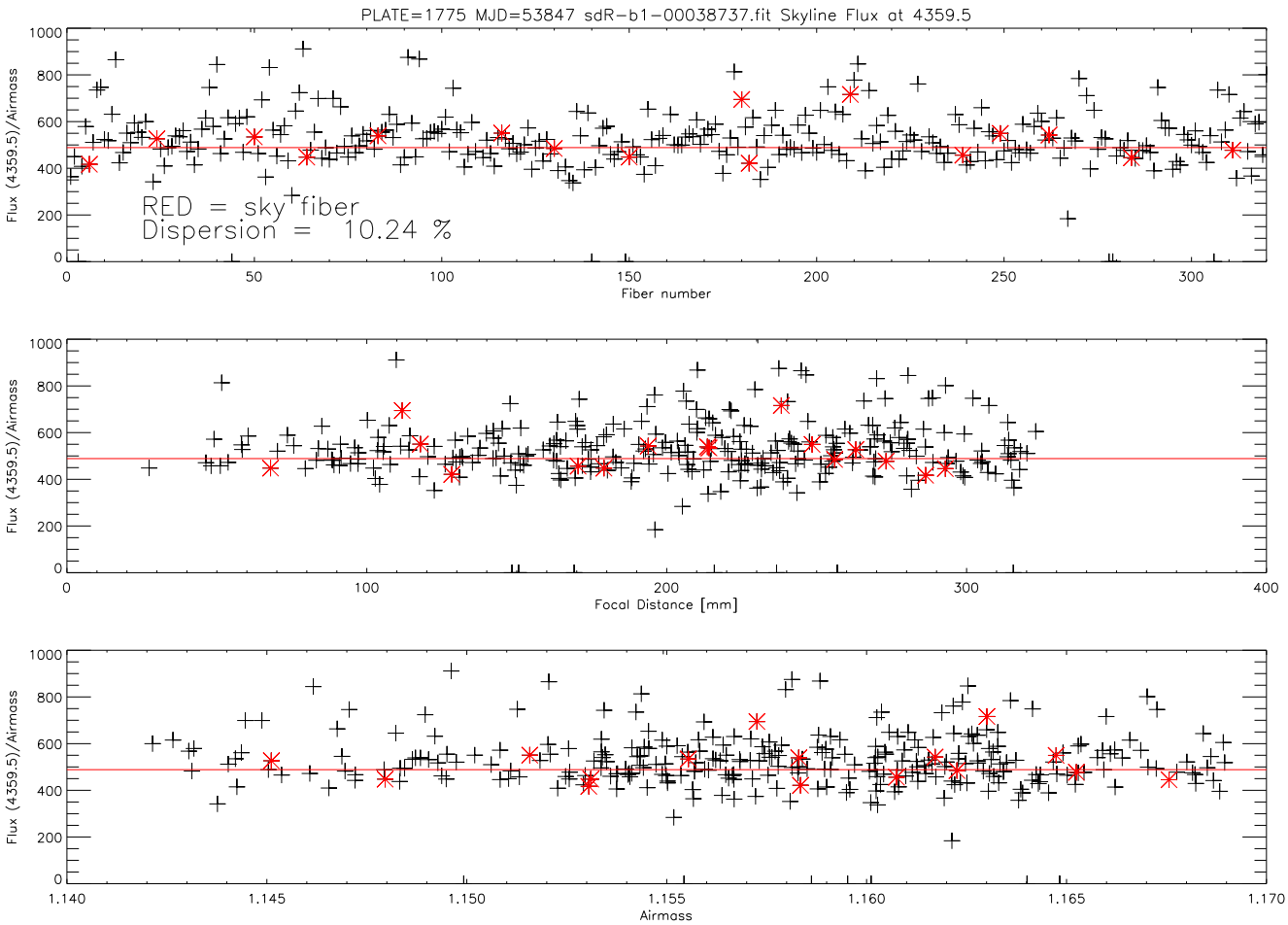

Number of sky fibers = 16
PLATE=1775 MJD=53847 sdR-b1-00038737.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

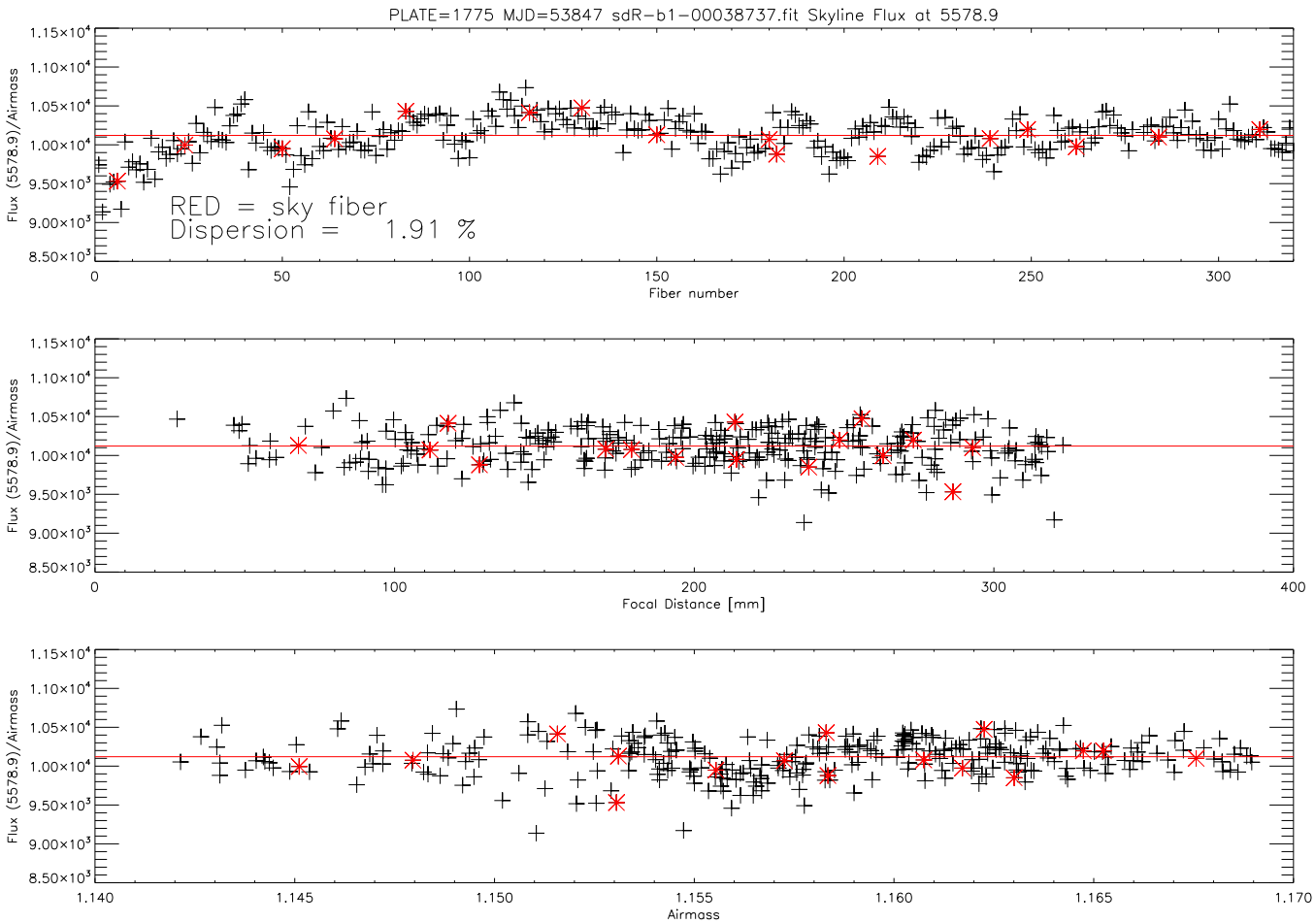

PLATE=1775 MJD=53847 sdR-b1-00038737.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

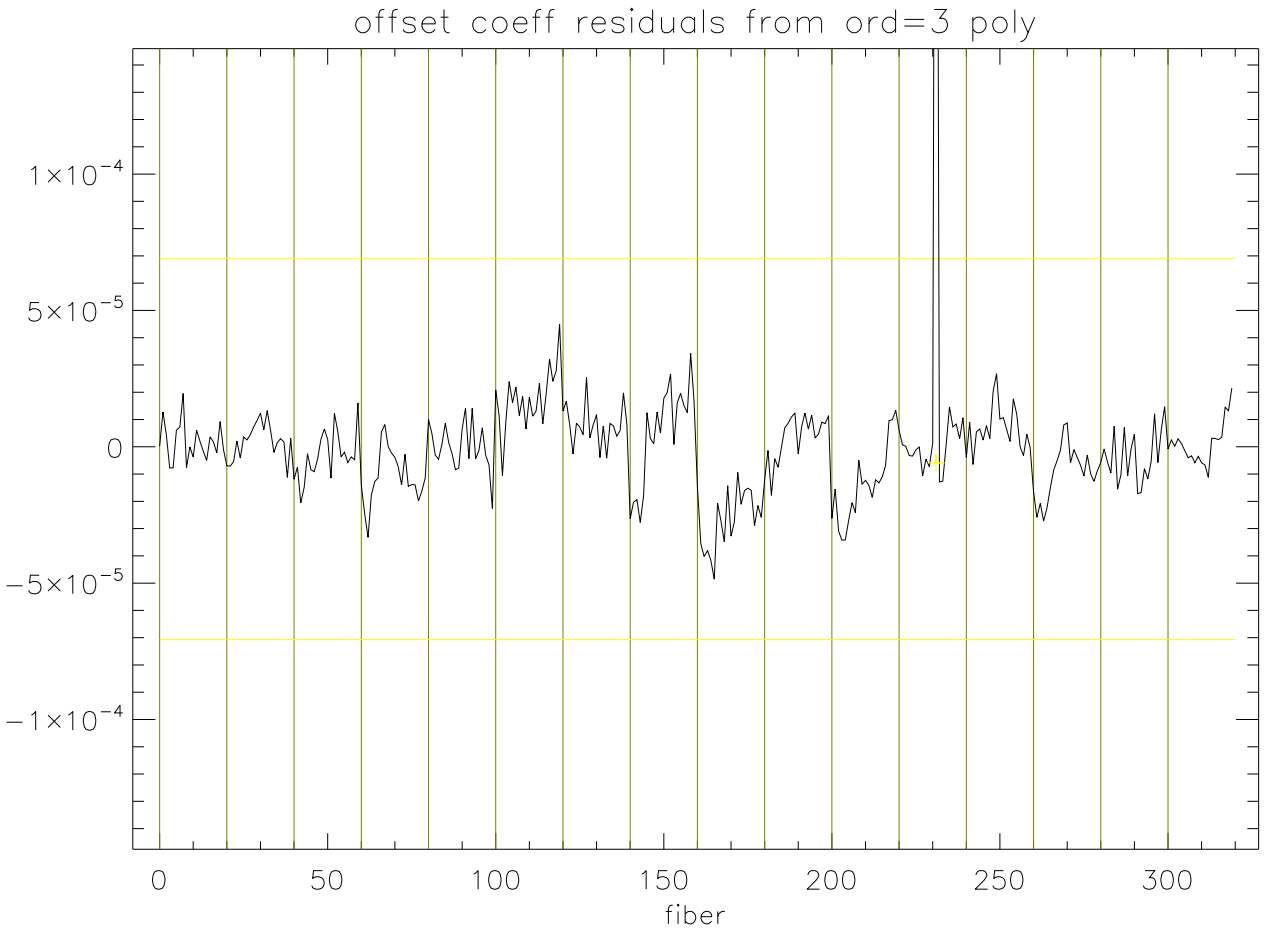

PLATE=1775 MJD=53847 sdR-b1-00038737.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

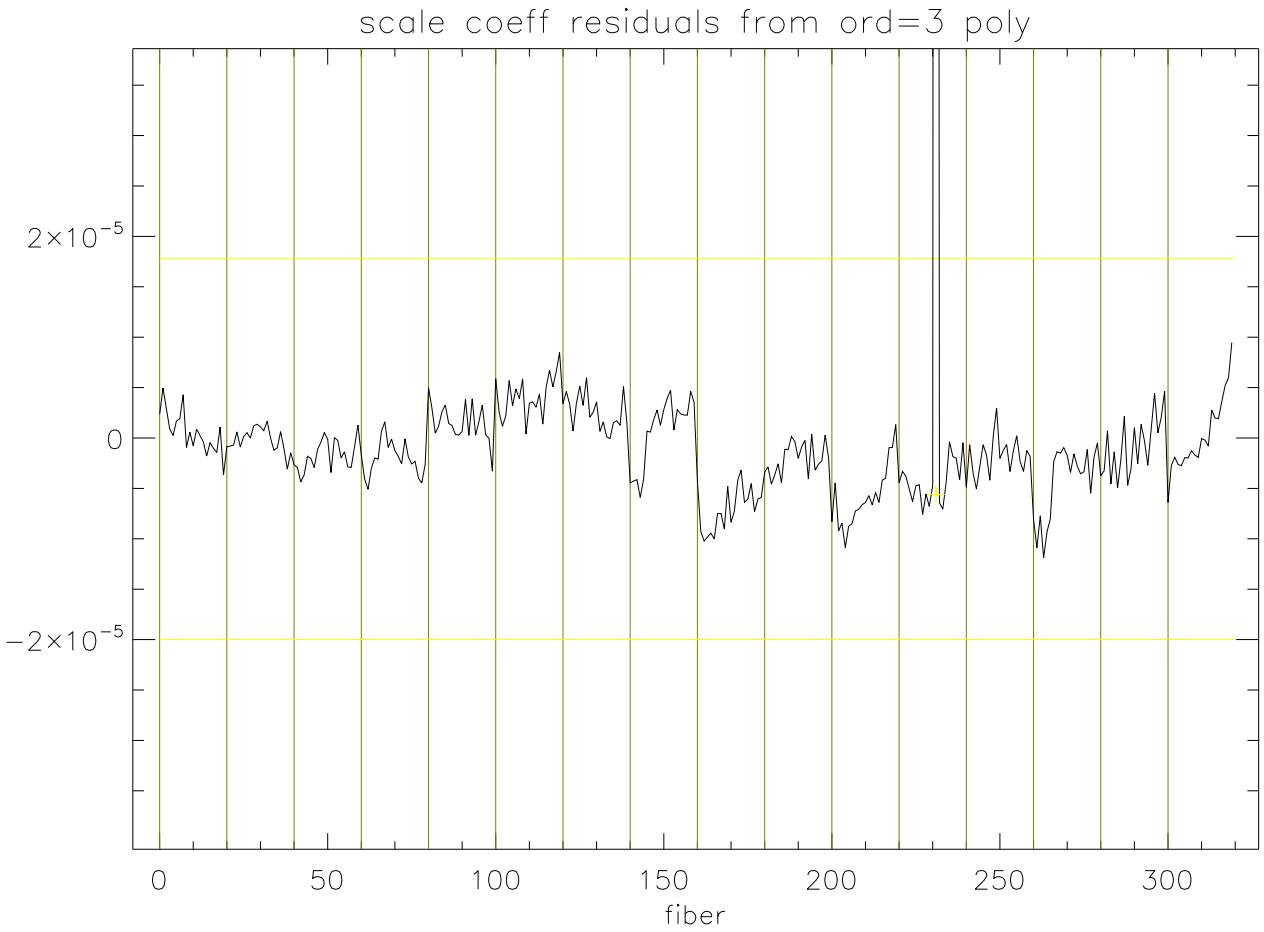

PLATE=1775 MJD=53847 sdR-b1-00038737.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

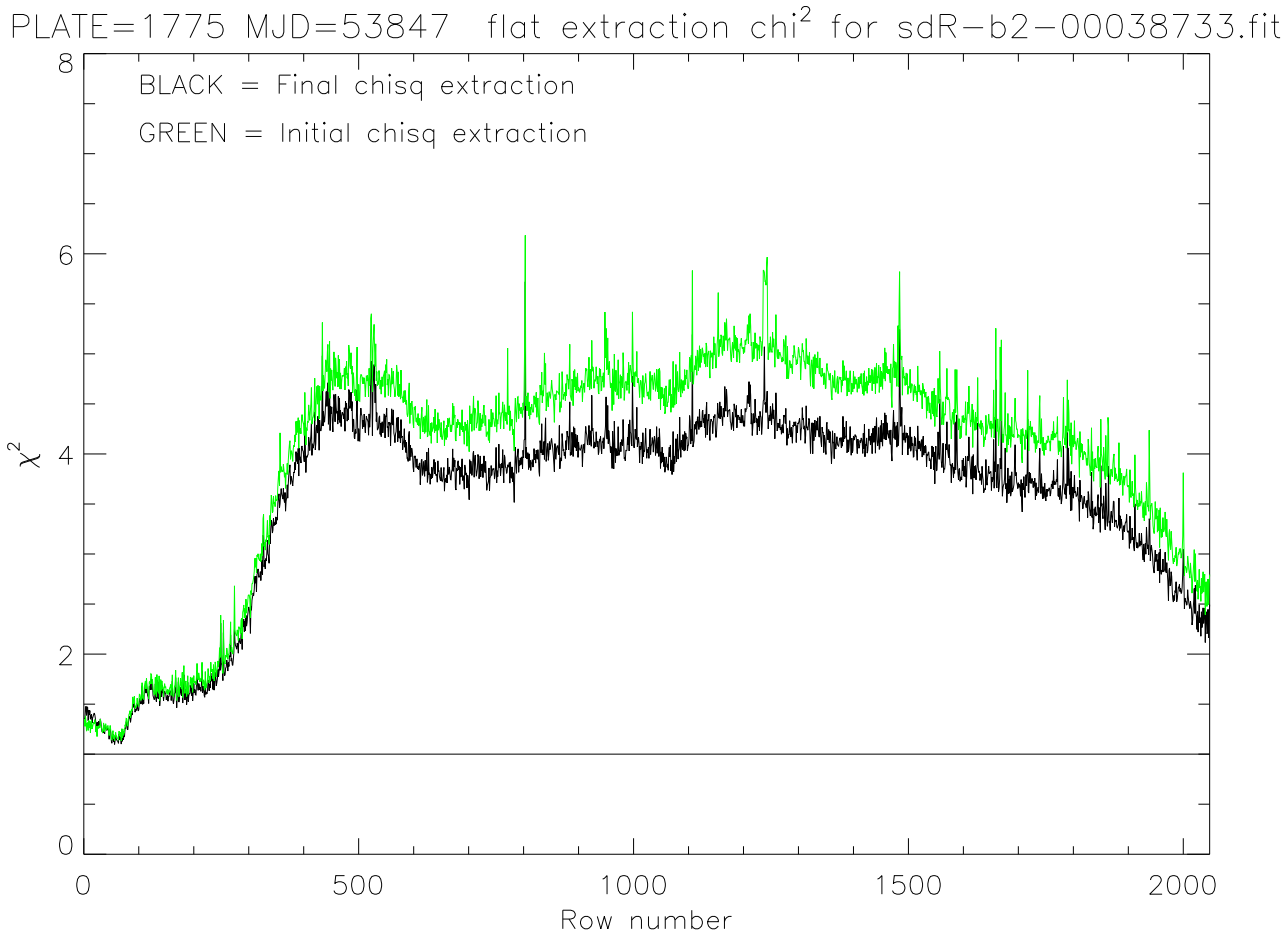

Number of sky fibers = 16
PLATE=1775 MJD=53847 sdR-b1-00038737.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

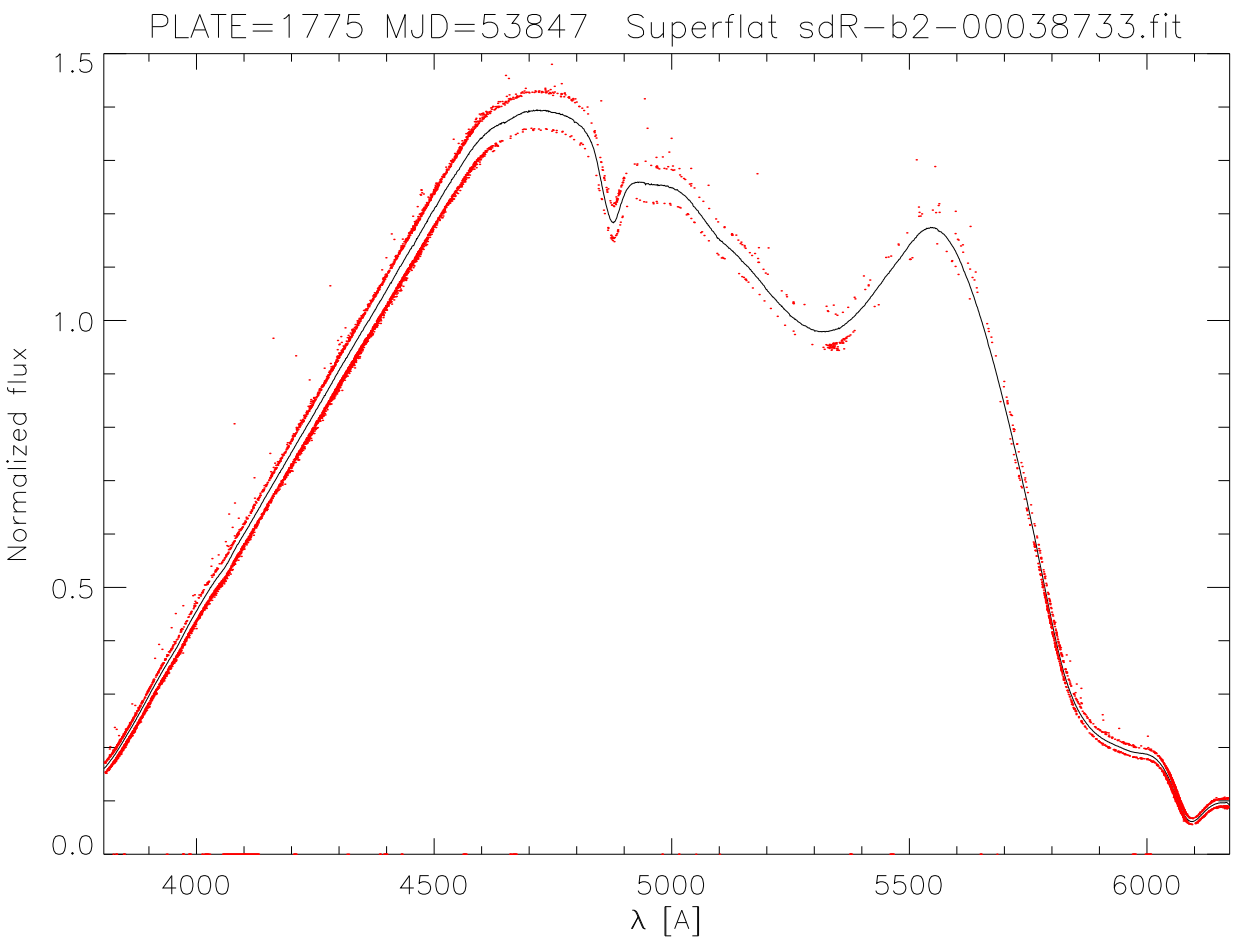

PLATE=1775 MJD=53847 sdR-b1-00038737.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 10.24 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

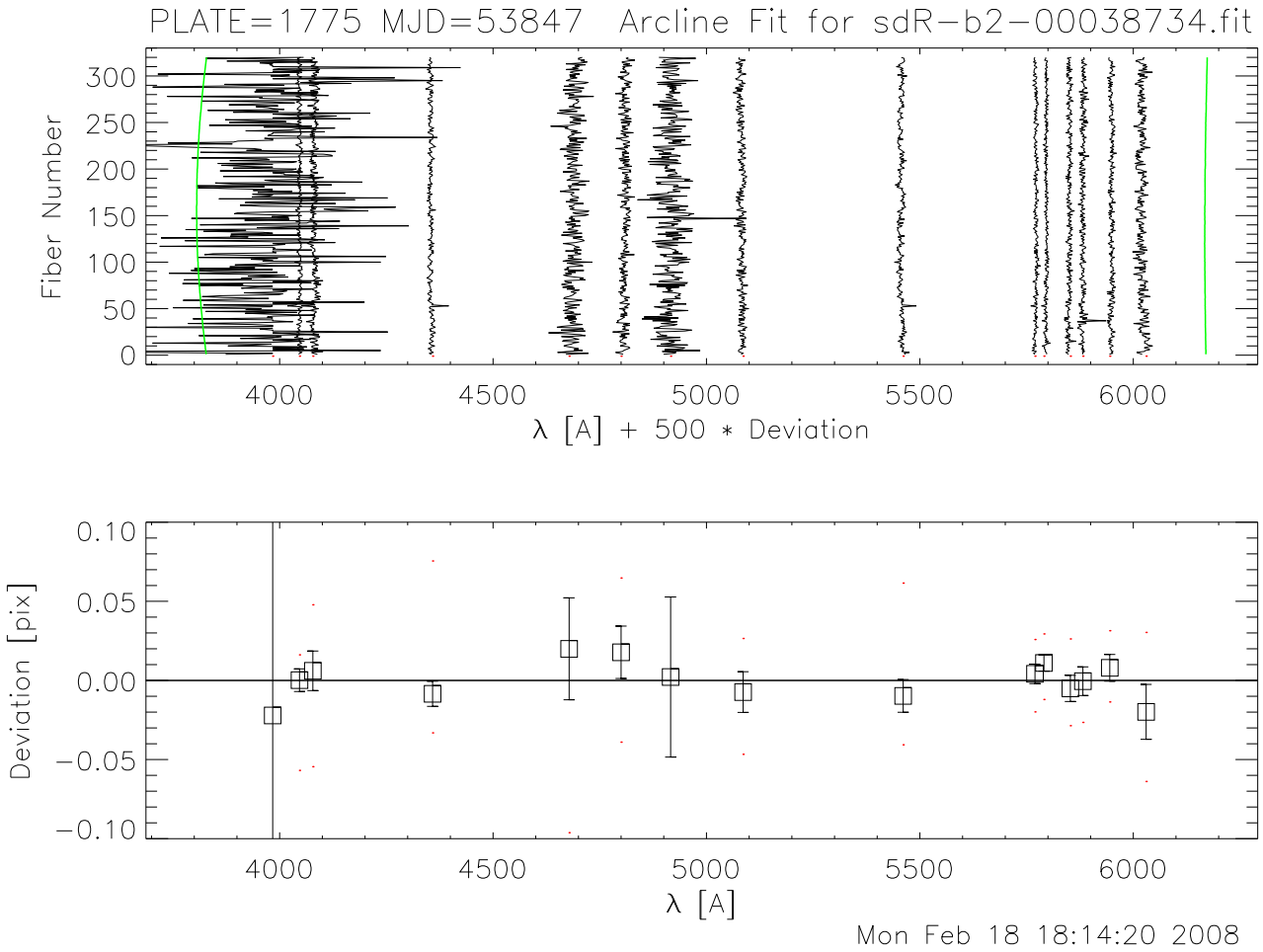

PLATE=1775 MJD=53847 sdR-b1-00038737.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.91 %
Fiber number
Focal Distance [mm]
Airmass

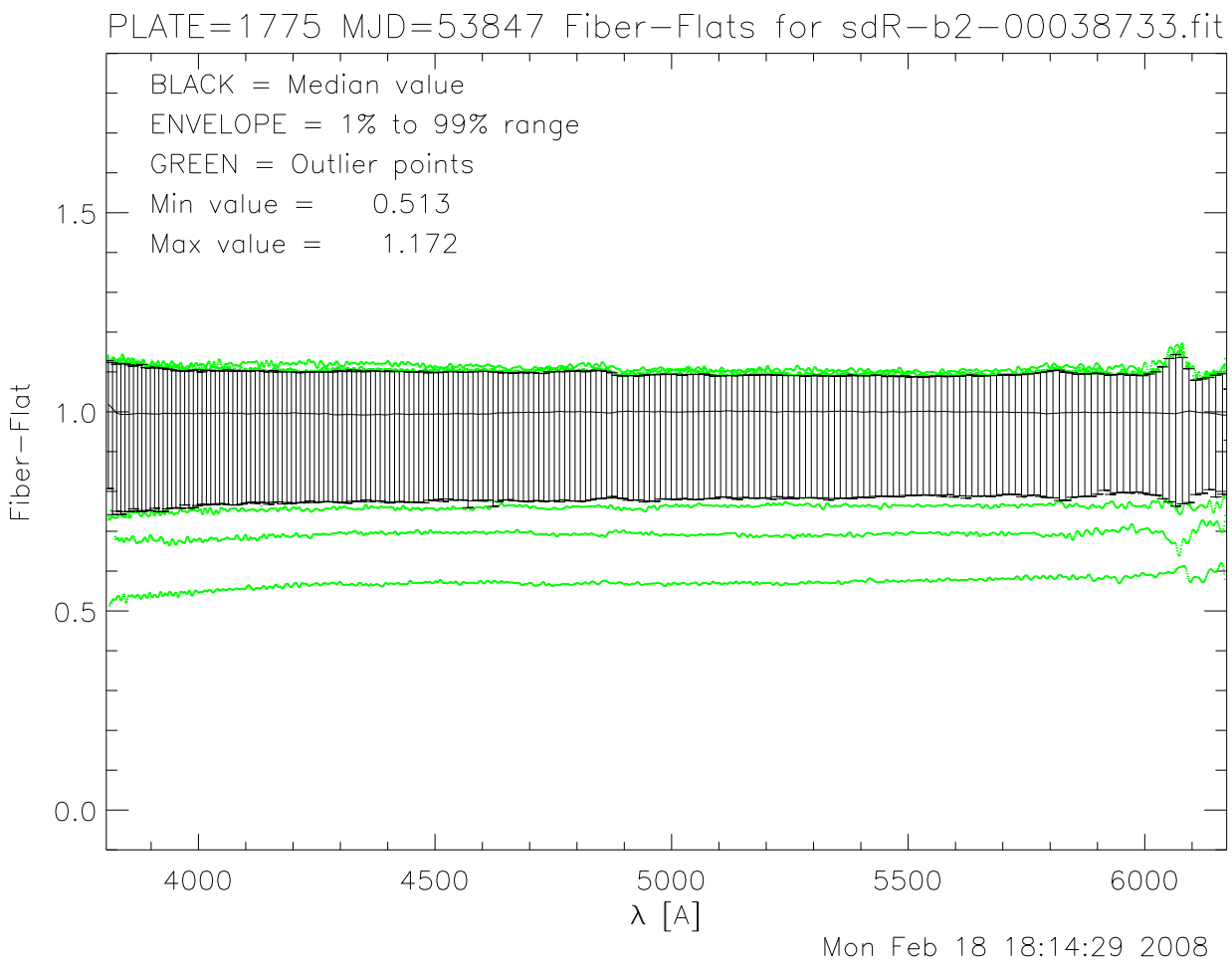

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

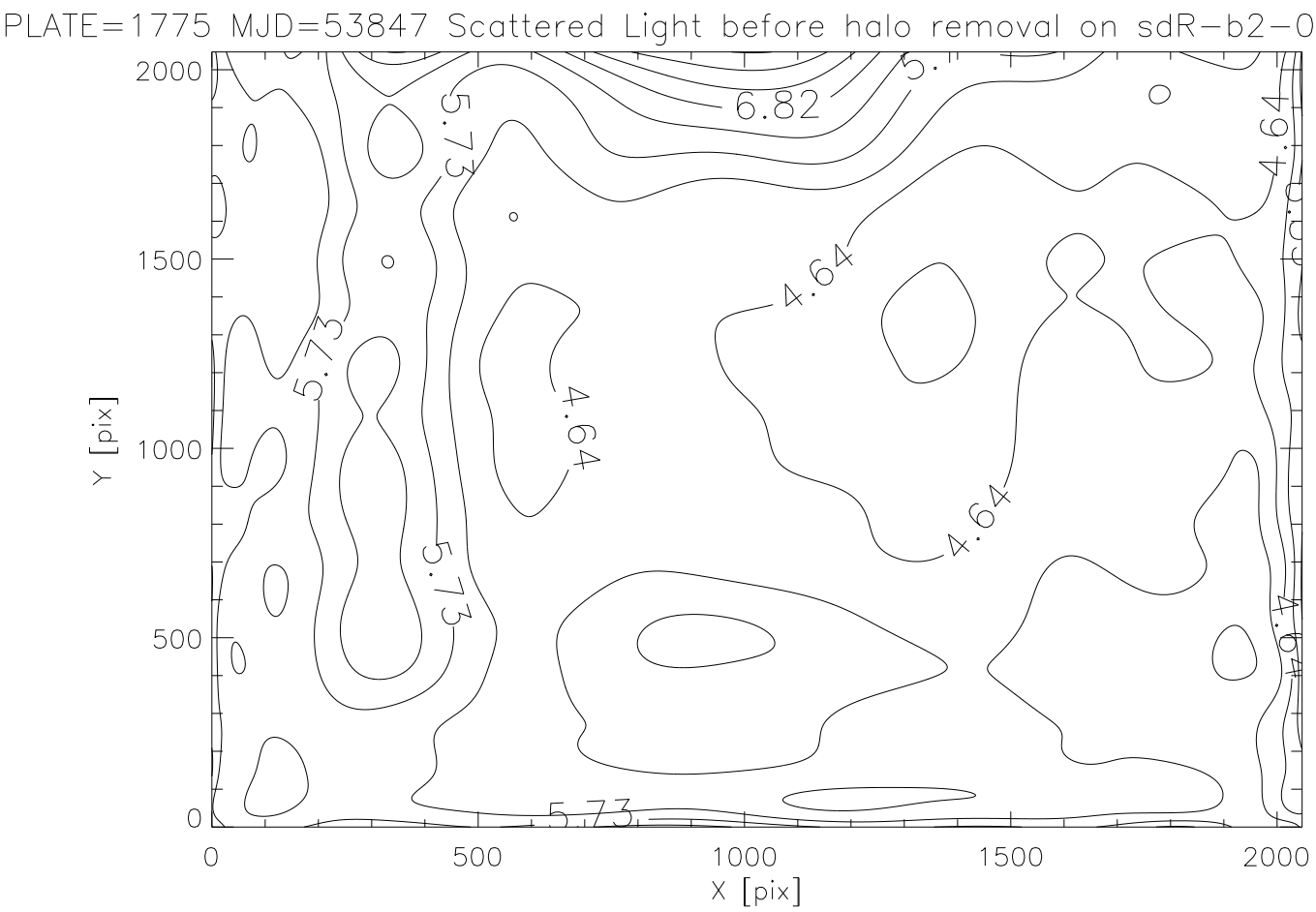

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

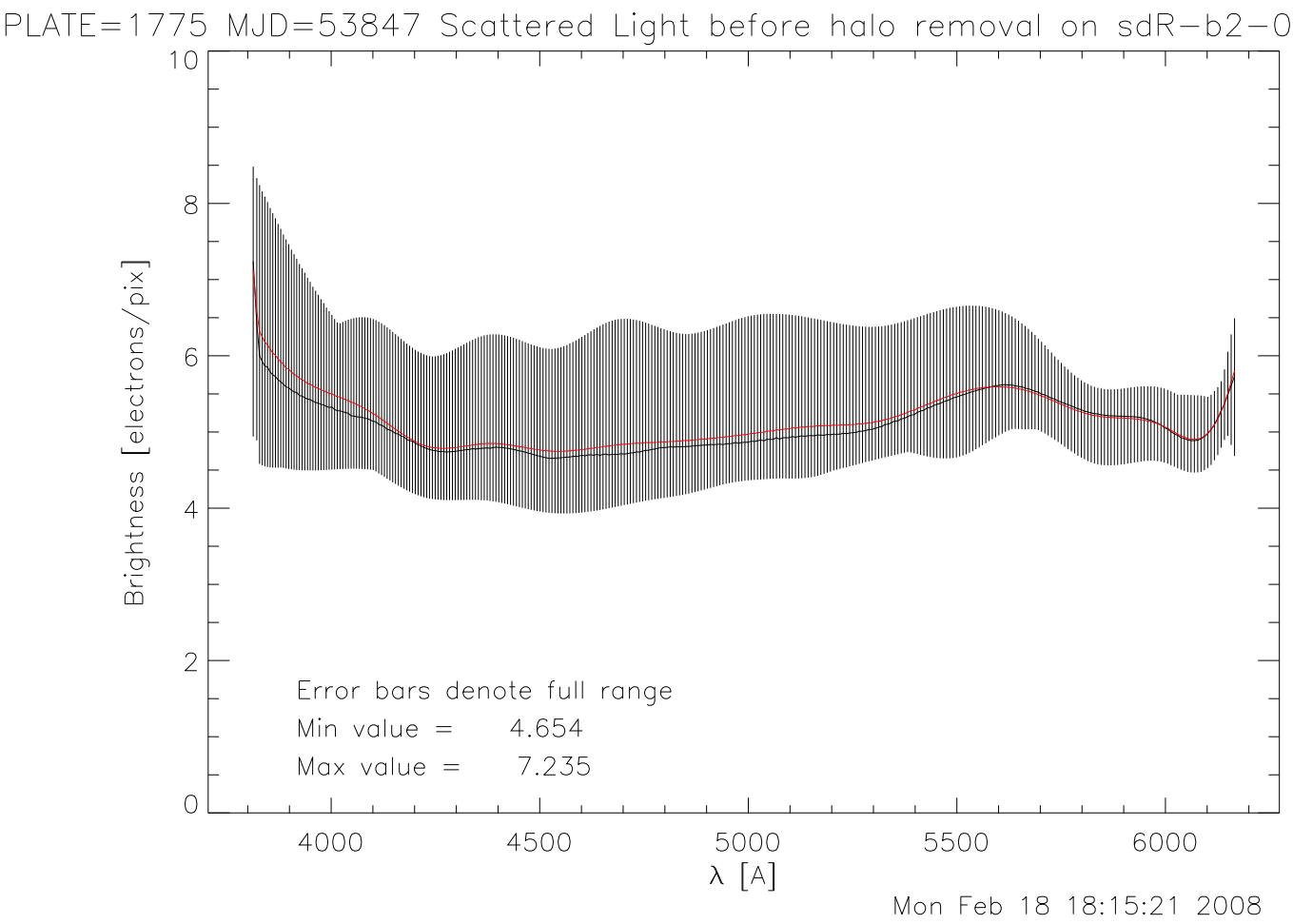

PLATE=1775 MJD=53847 flat extraction chi^2 for sdR−b2−00038733.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

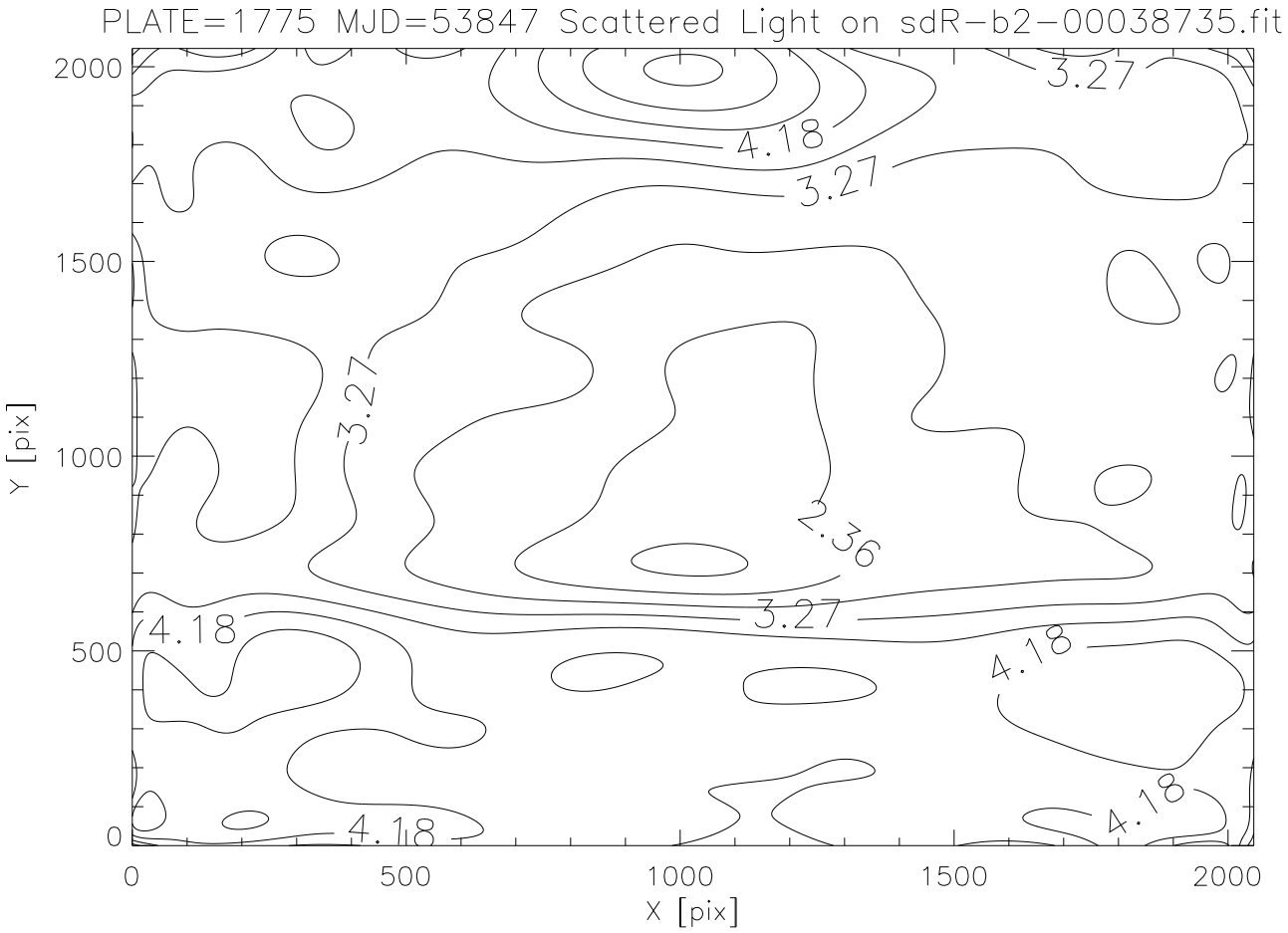

PLATE=1775 MJD=53847 Superflat sdR-b2-00038733.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

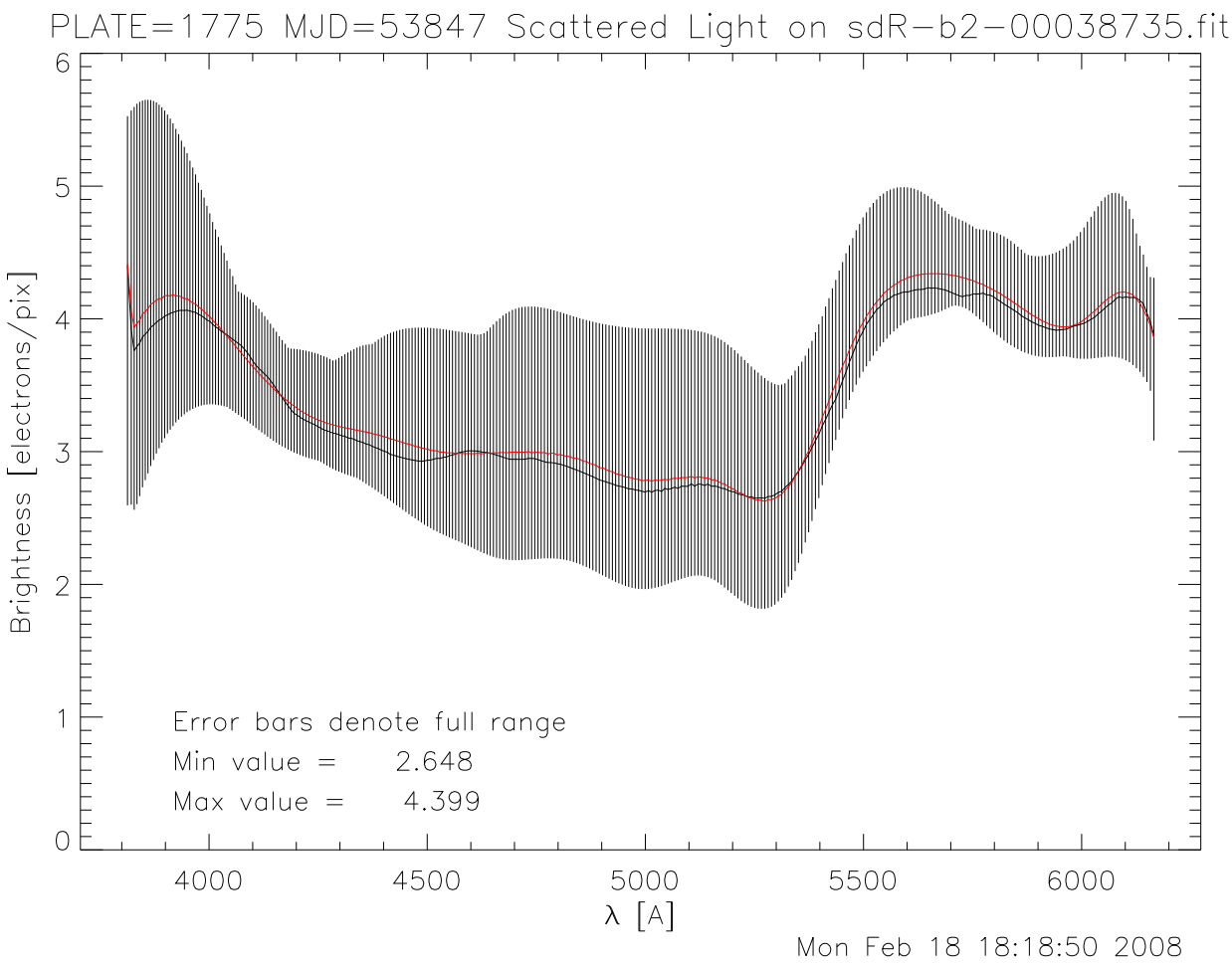

PLATE=1775 MJD=53847 Arcline Fit for sdR-b2-00038734.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Mon Feb 18 18:14:20 2008

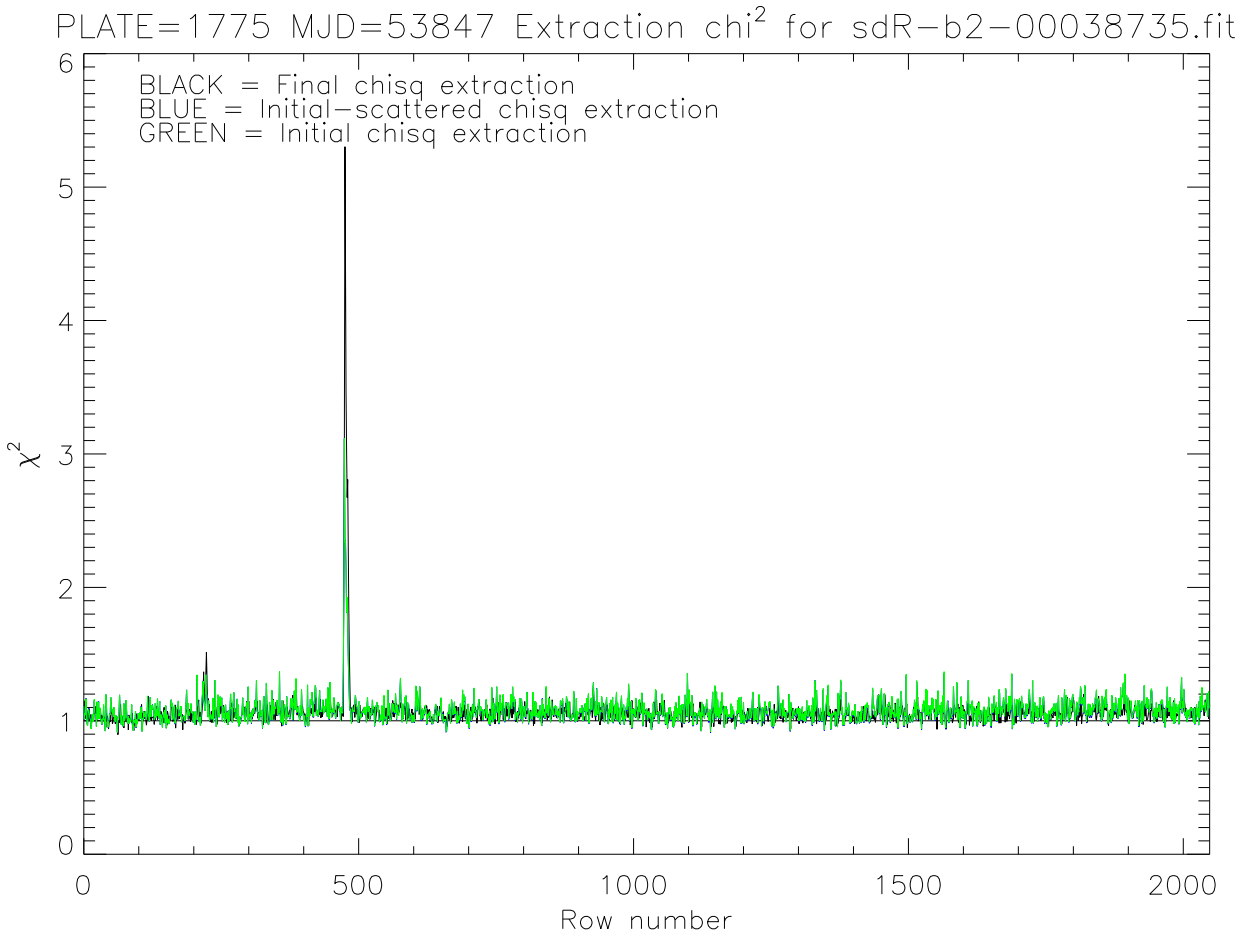

PLATE=1775 MJD=53847 Fiber-Flats for sdR-b2-00038733.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.513
Max value = 1.172
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 18 18:14:29 2008

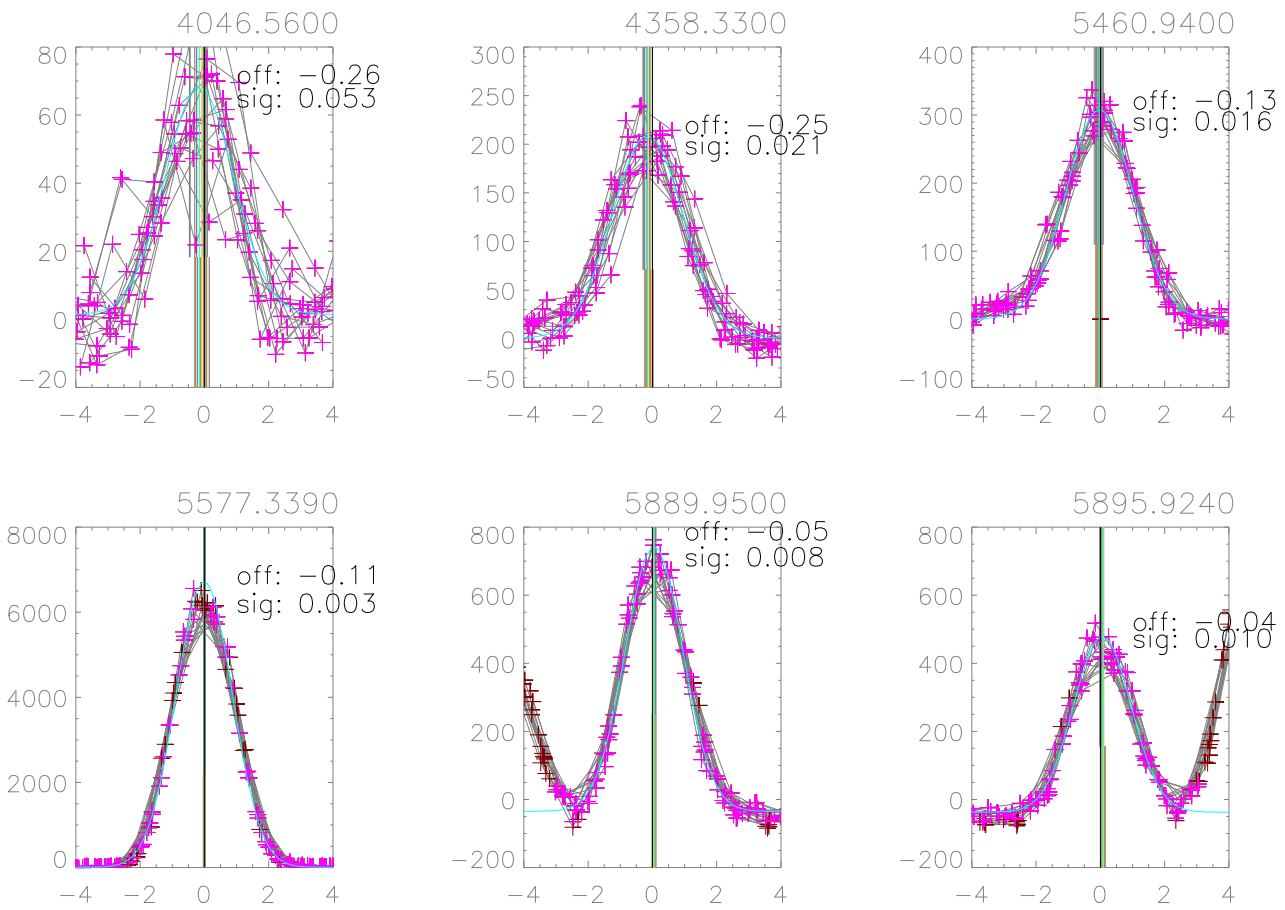

PLATE=1775 MJD=53847 Scattered Light before halo removal on sdR−b2−00038735.f
6.82
5.73
4.64
Y [pix]
X [pix]
0
500
1000
1500
2000

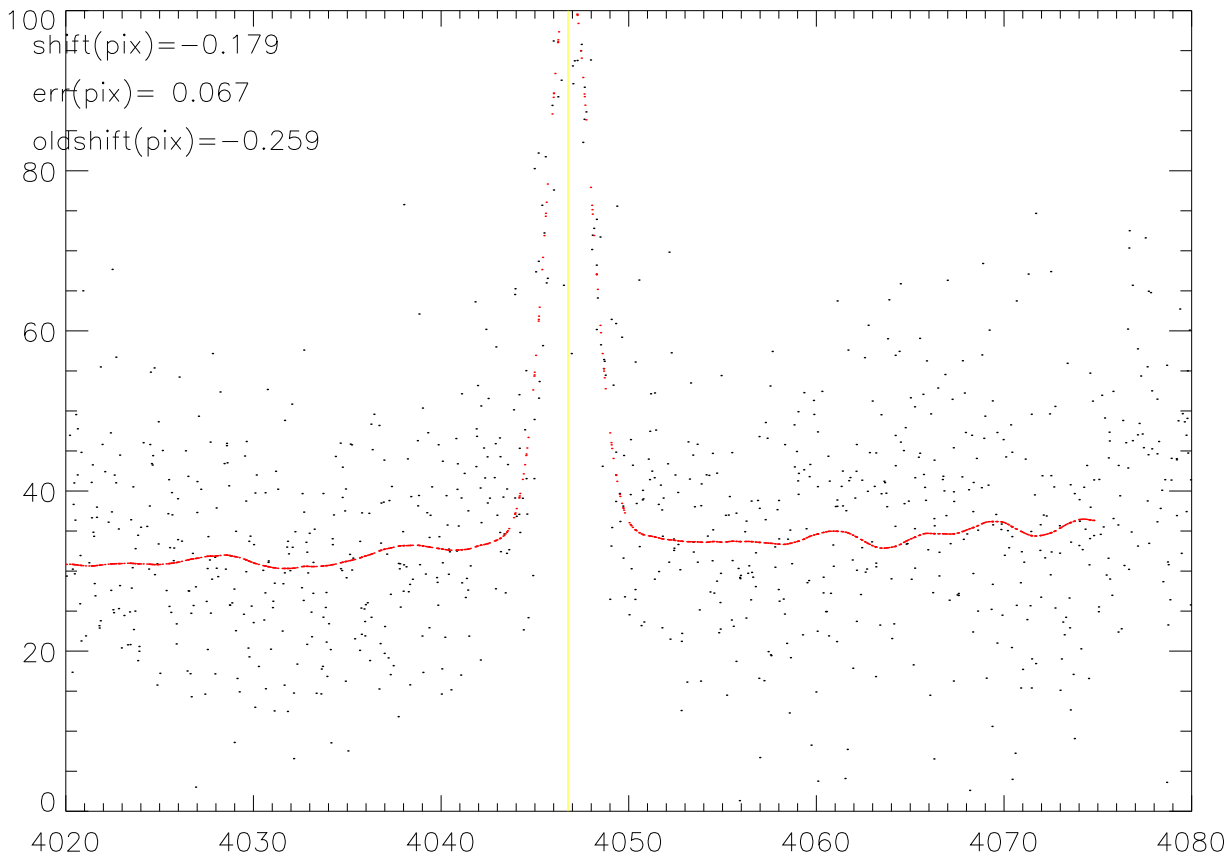

PLATE=1775 MJD=53847 Scattered Light before halo removal on sdR-b2-00038735.f
Brightness [electrons/pix]
10
8
6
4
2
0
Error bars denote full range
Min value = 4.654
Max value = 7.235
4000
4500
5000
5500
6000
λ [A]
Mon Feb 18 18:15:21 2008

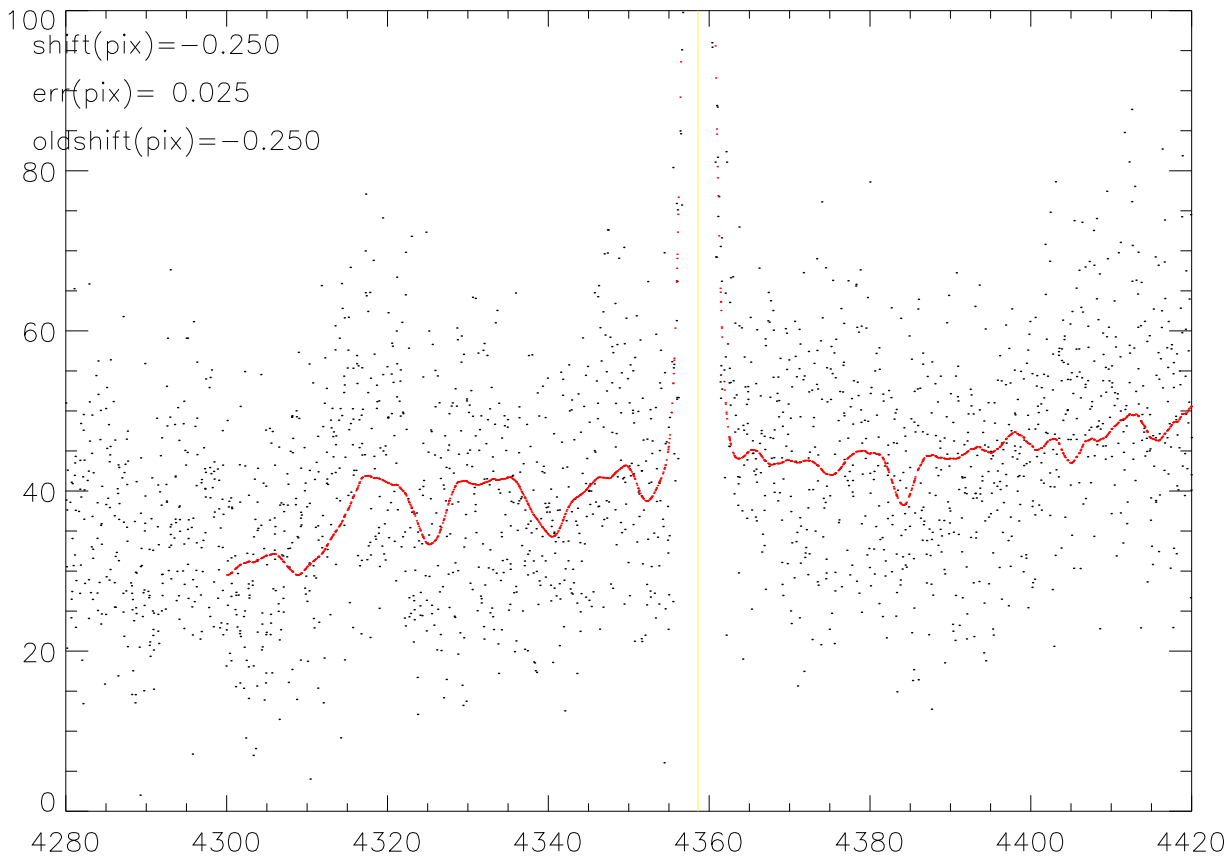

PLATE=1775 MJD=53847 Scattered Light on sdR-b2-00038735.fit
3.27
4.18
3.27
3.27
2.36
3.27
4.18
4.18
4.18
4.18
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

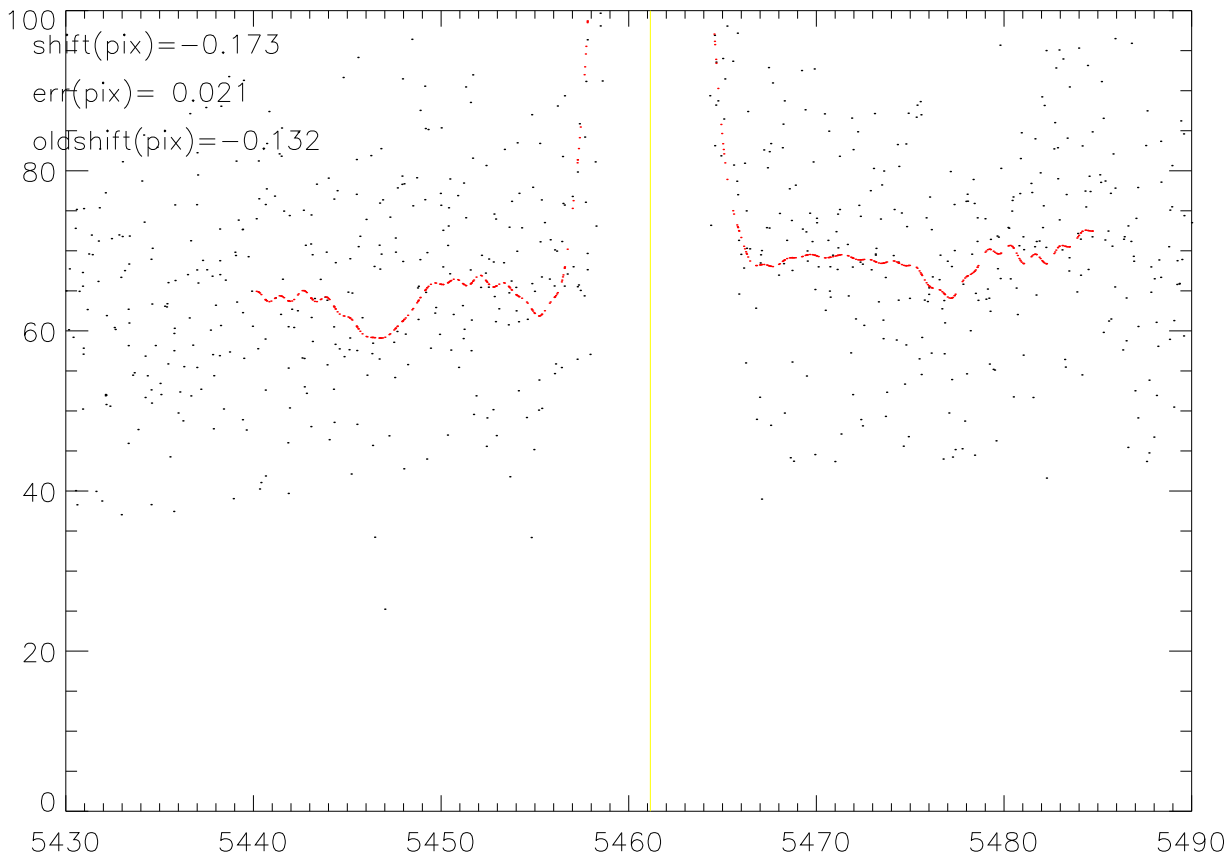

PLATE=1775 MJD=53847 Scattered Light on sdR-b2-00038735.fit
Brightness [electrons/pix]
0
1
2
3
4
5
6
Error bars denote full range
Min value = 2.648
Max value = 4.399
4000
4500
5000
5500
6000
λ [A]
Mon Feb 18 18:18:50 2008

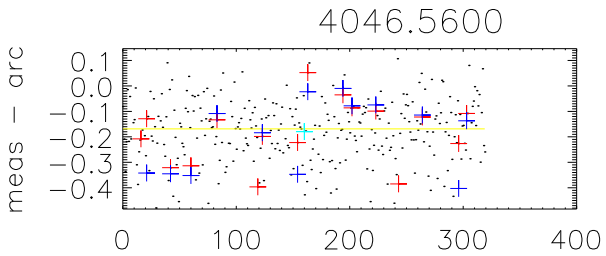

PLATE=1775 MJD=53847 Extraction chi^2 for sdR-b2-00038735.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

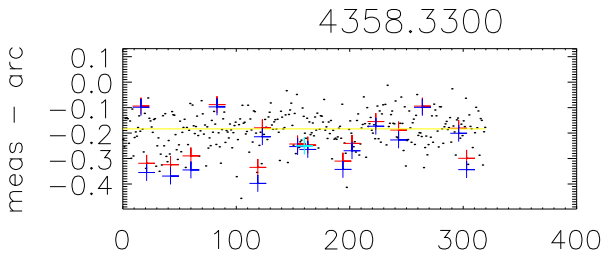

4046.5600
off: −0.26
sig: 0.053
4358.3300
off: −0.25
sig: 0.021
5460.9400
off: −0.13
sig: 0.016
5577.3390
off: −0.11
sig: 0.003
5889.9500
off: −0.05
sig: 0.008
5895.9240
off: −0.04
sig: 0.010

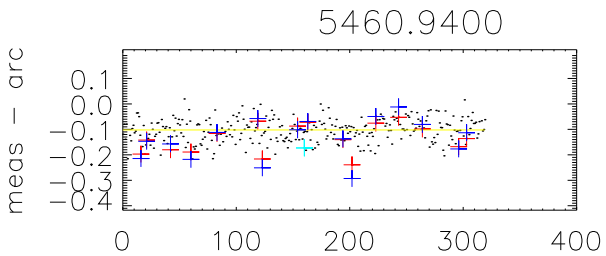

shift(pix)=−0.179
err(pix)= 0.067
oldshift(pix)=−0.259
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

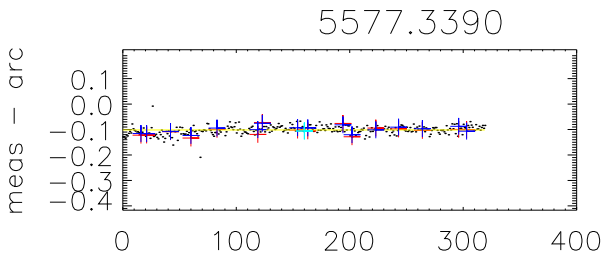

shift(pix)=−0.250
err(pix)= 0.025
oldshift(pix)=−0.250
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

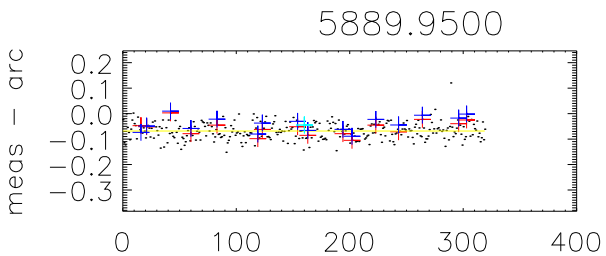

shift(pix)=−0.173
err(pix)= 0.021
oldshift(pix)=−0.132
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

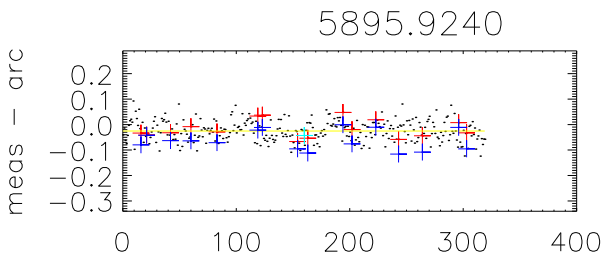

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

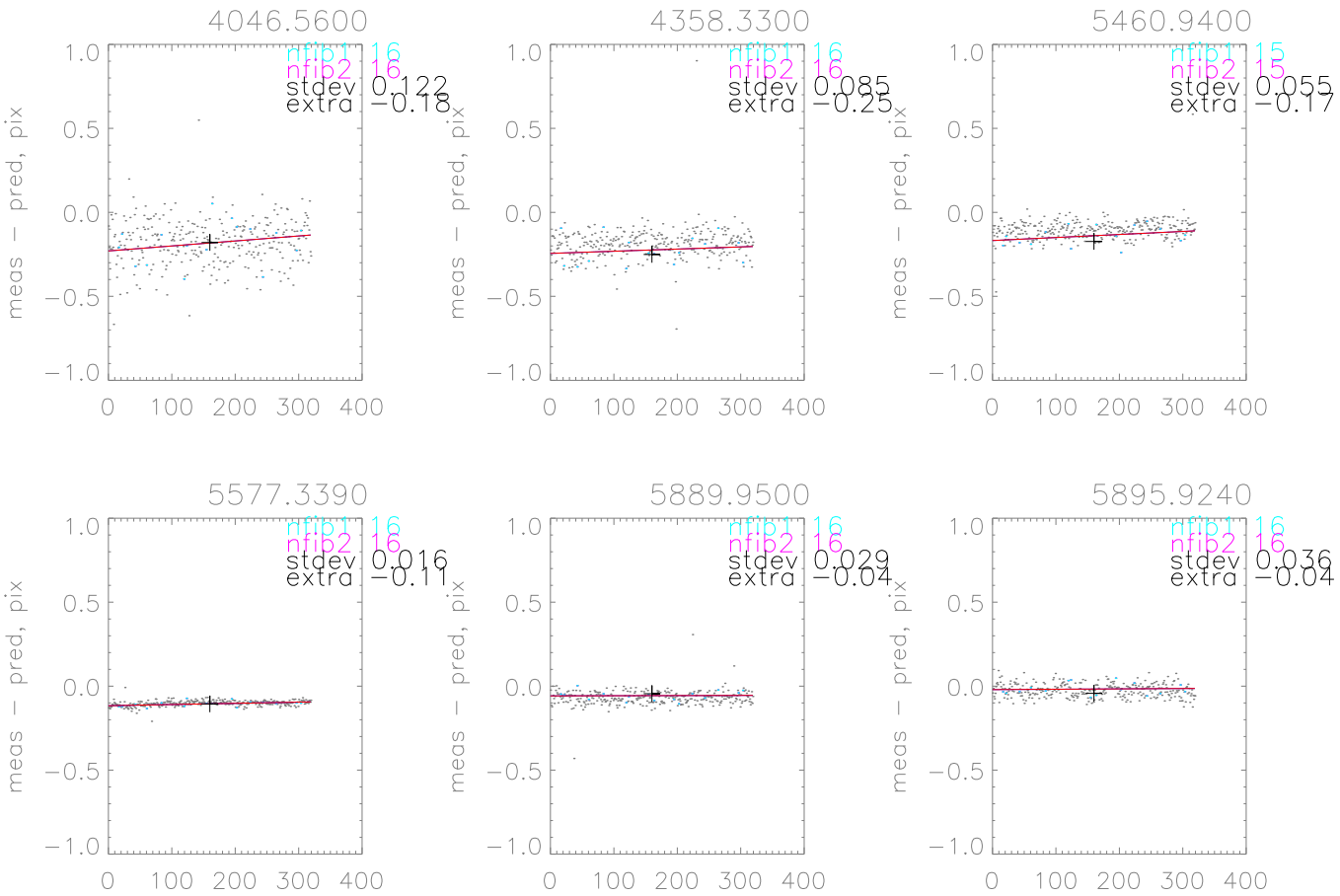

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

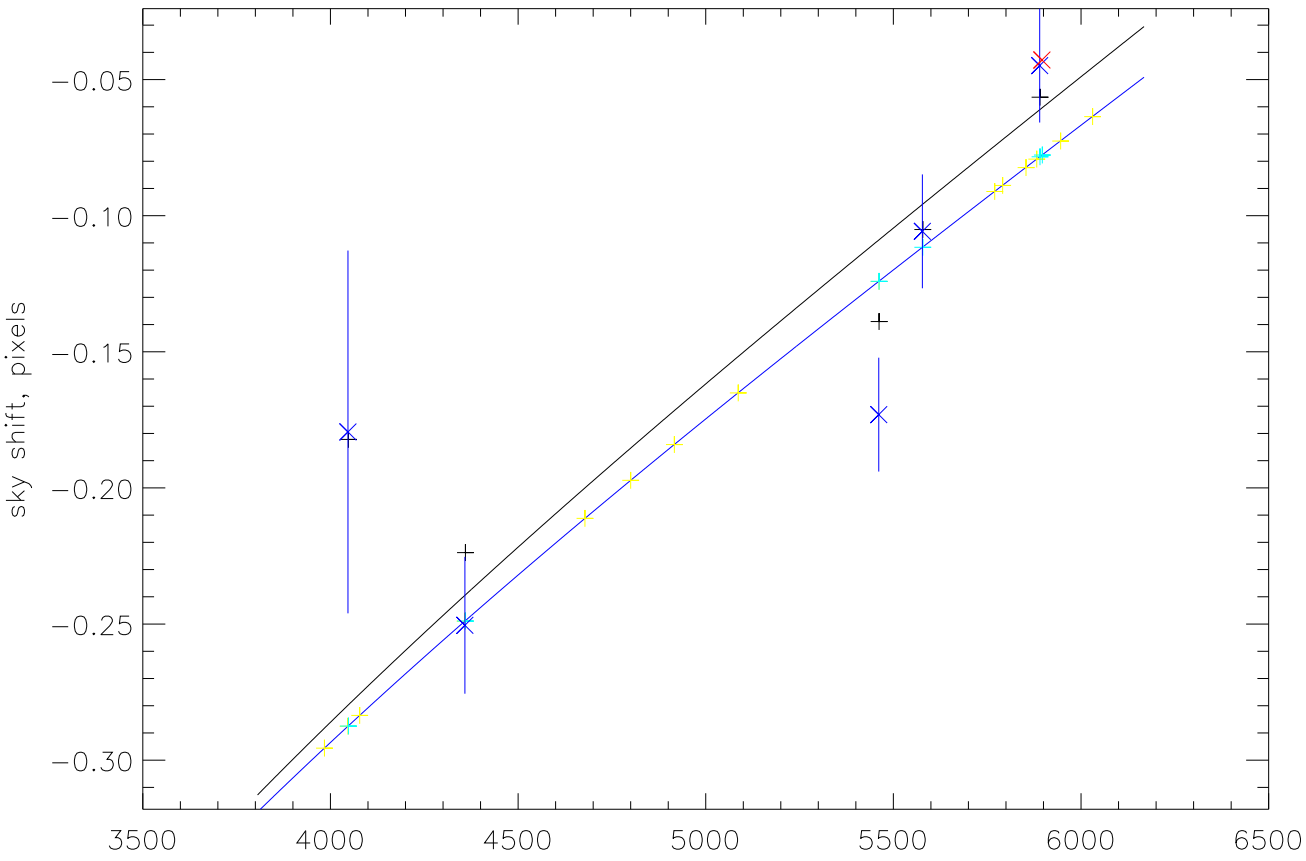

5460.9400
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

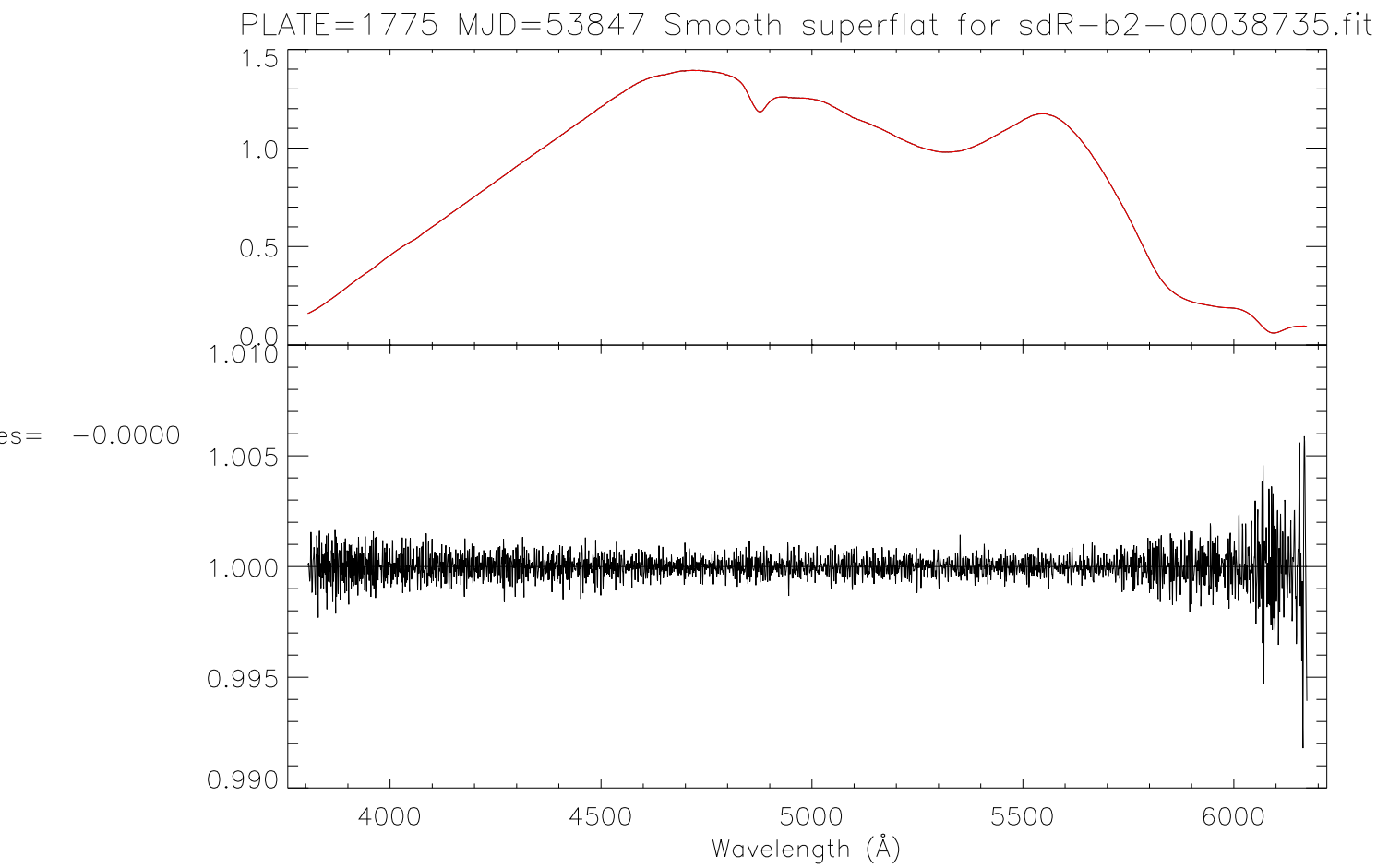

5577.3390
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


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

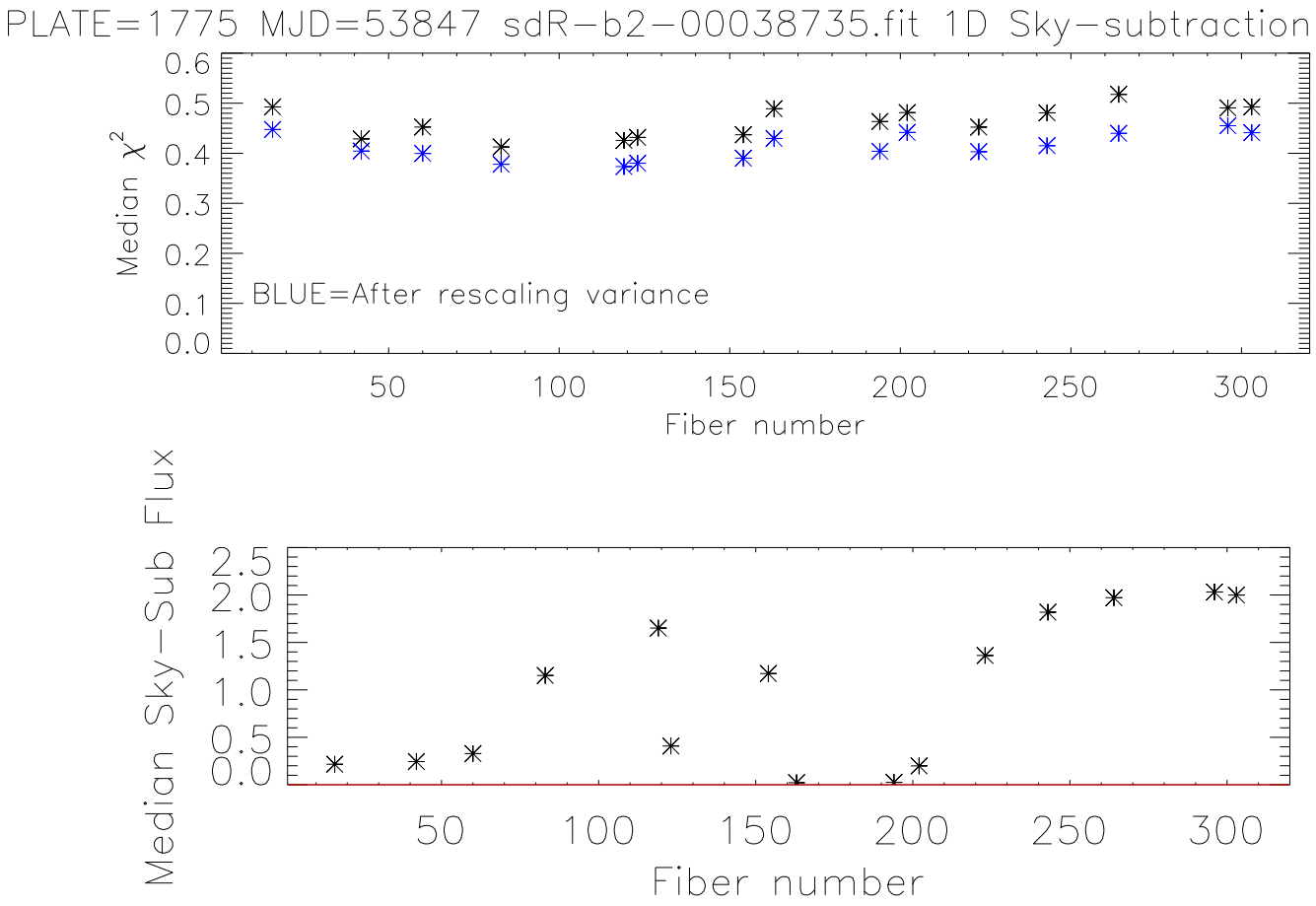

5895.9240
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

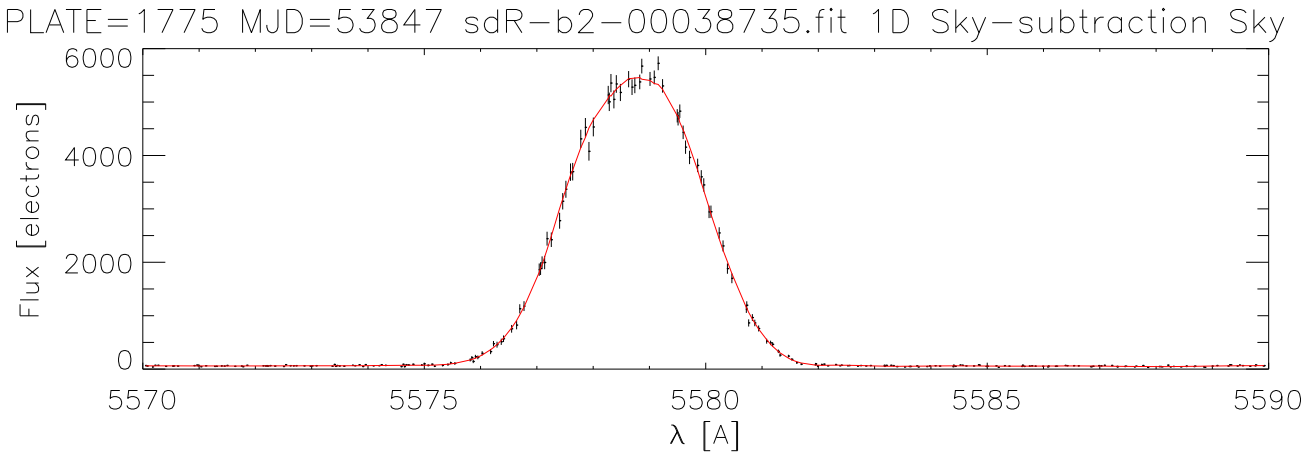

4046.5600
nfib1 16
nfib2 16
stdev 0.122
extra −0.18
4358.3300
nfib1 16
nfib2 16
stdev 0.085
extra −0.25
5460.9400
nfib1 15
nfib2 15
stdev 0.055
extra −0.17
5577.3390
nfib1 16
nfib2 16
stdev 0.016
extra −0.11
5889.9500
nfib1 16
nfib2 16
stdev 0.029
extra −0.04
5895.9240
nfib1 16
nfib2 16
stdev 0.036
extra −0.04
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

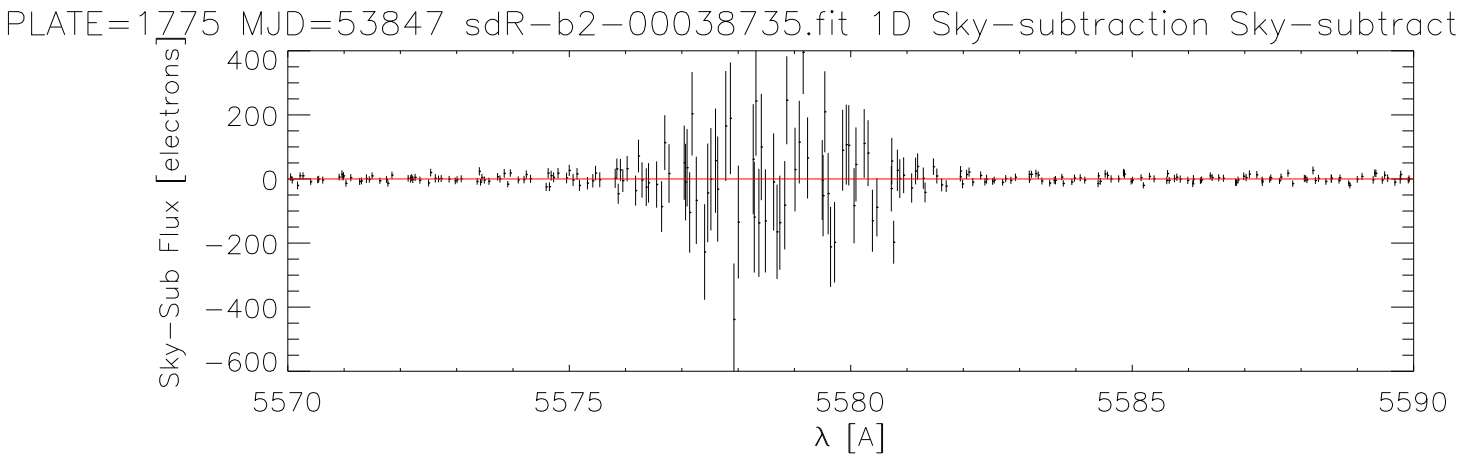

−0.05
−0.10
−0.15
−0.20
−0.25
−0.30
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

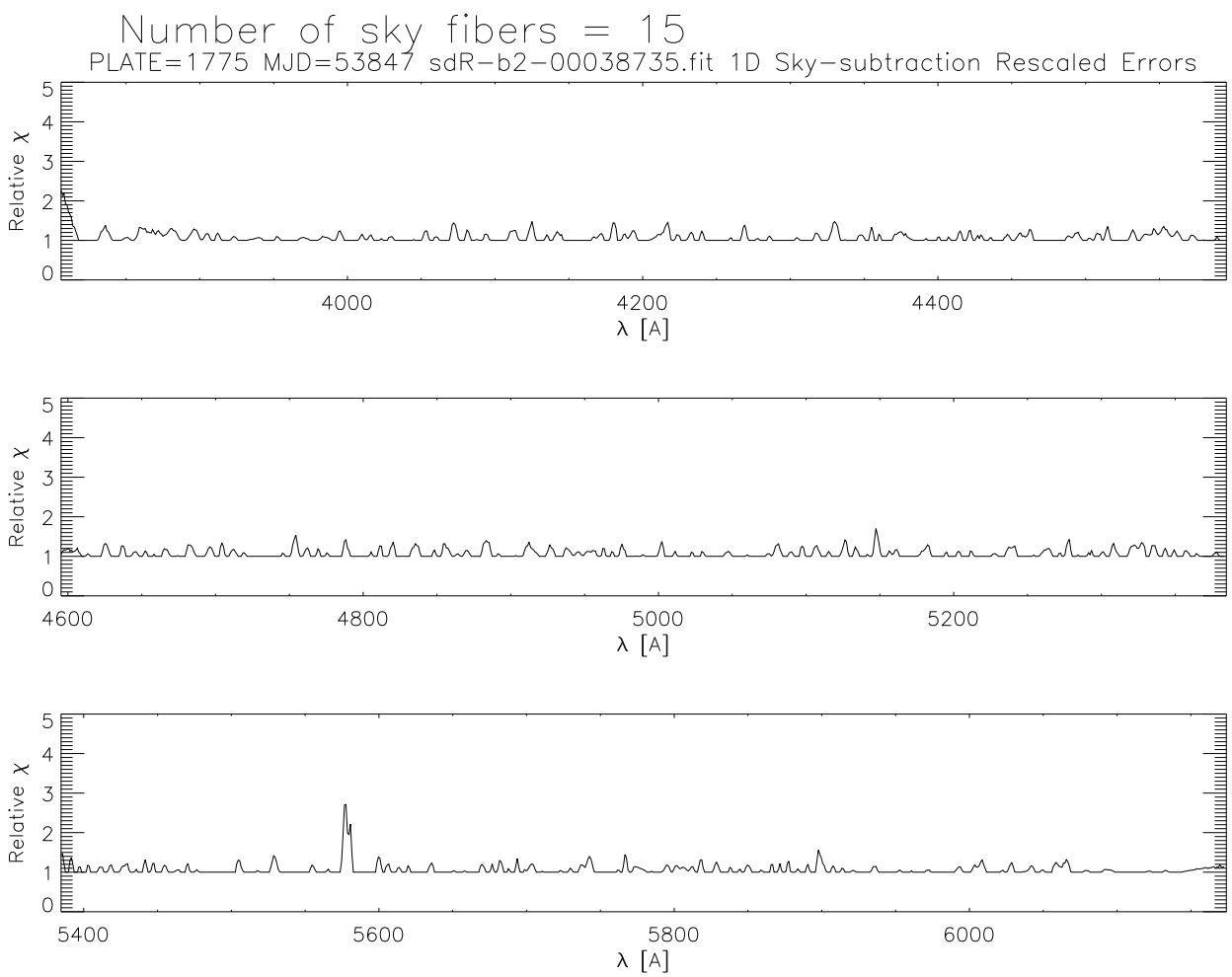

PLATE=1775 MJD=53847 Smooth superflat for sdR-b2-00038735.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

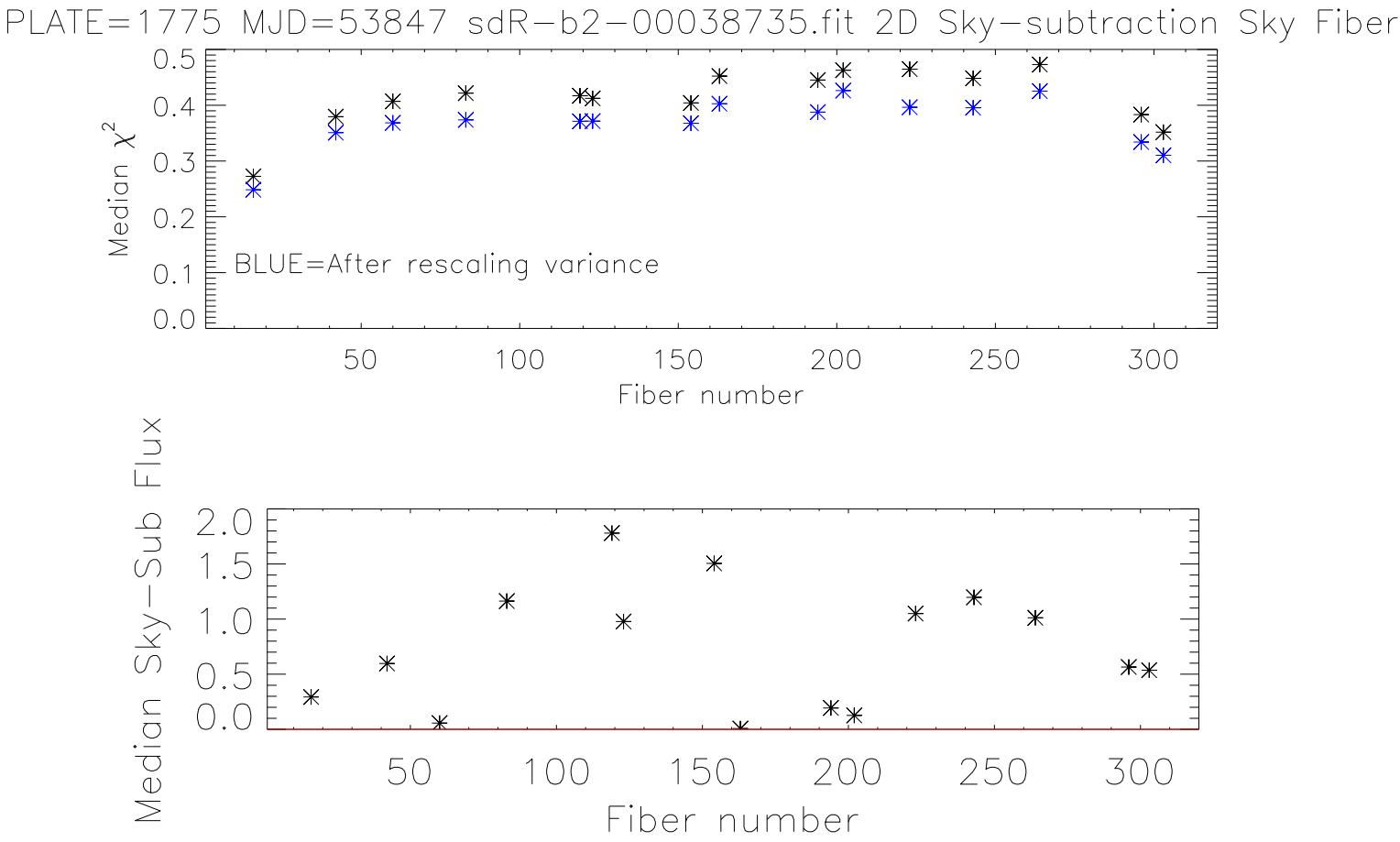
es= −0.0000

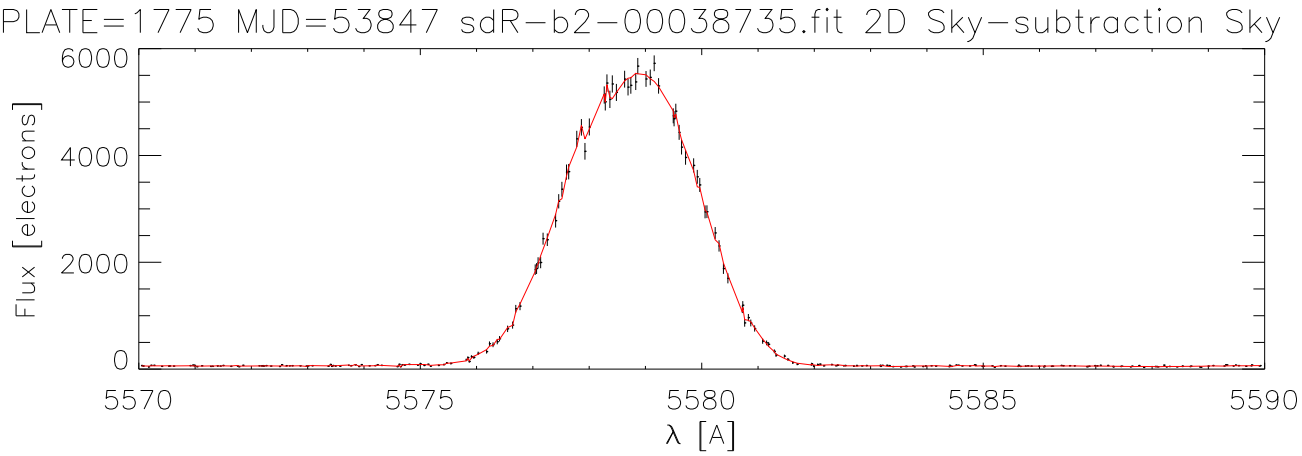

PLATE=1775 MJD=53847 sdR-b2-00038735.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

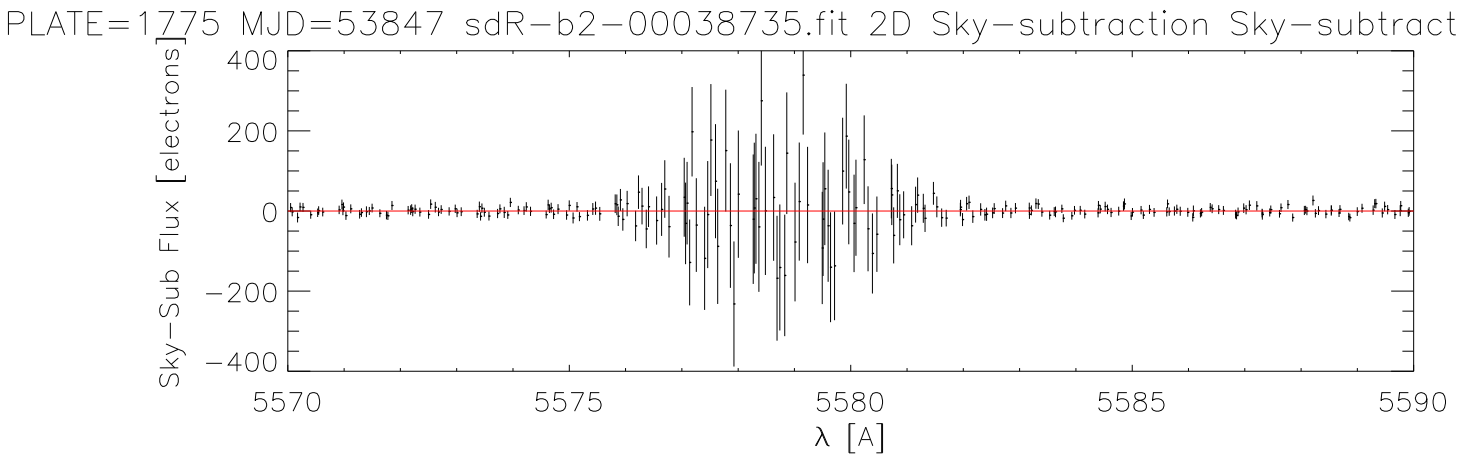

PLATE=1775 MJD=53847 sdR-b2-00038735.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

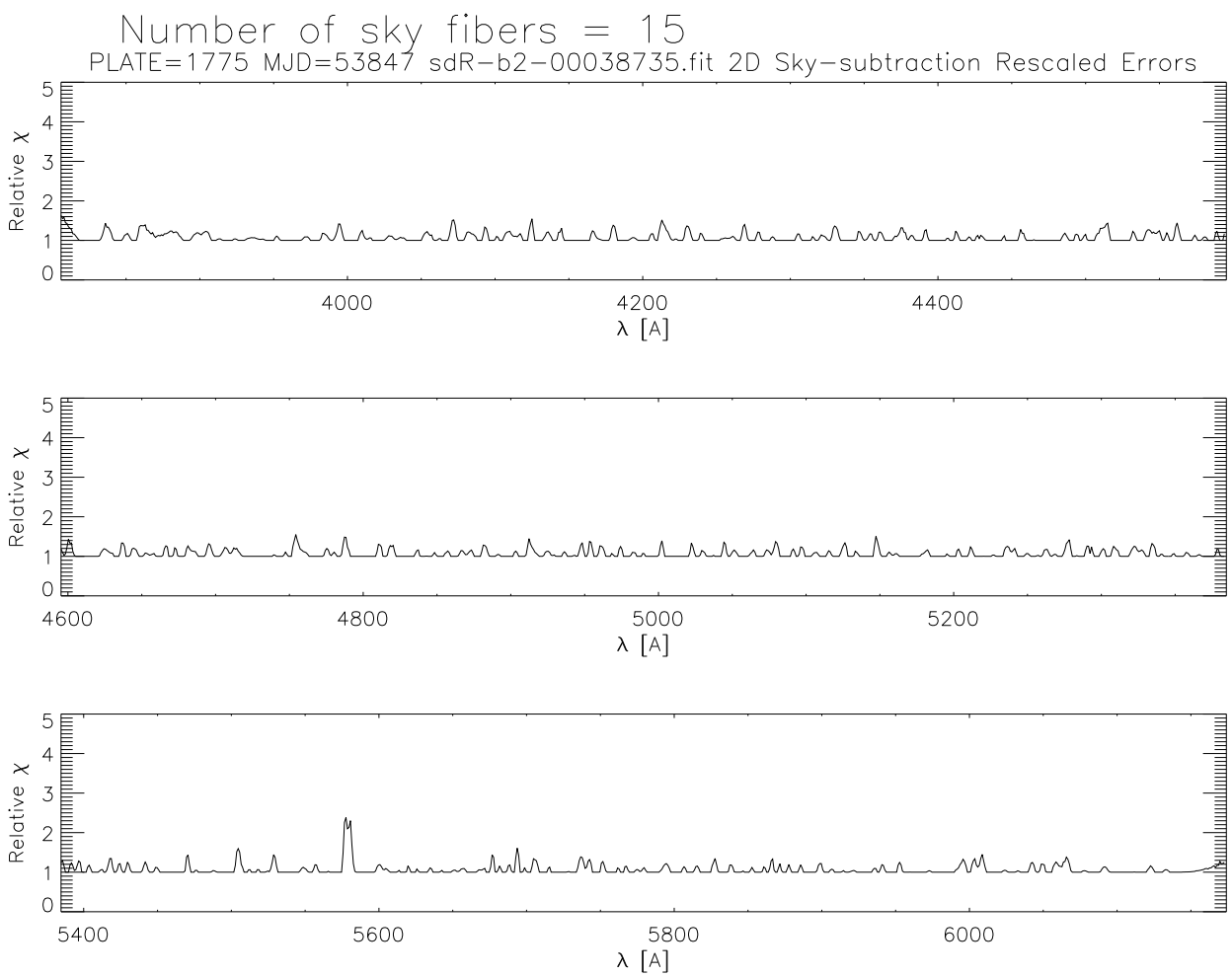

PLATE=1775 MJD=53847 sdR-b2-00038735.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

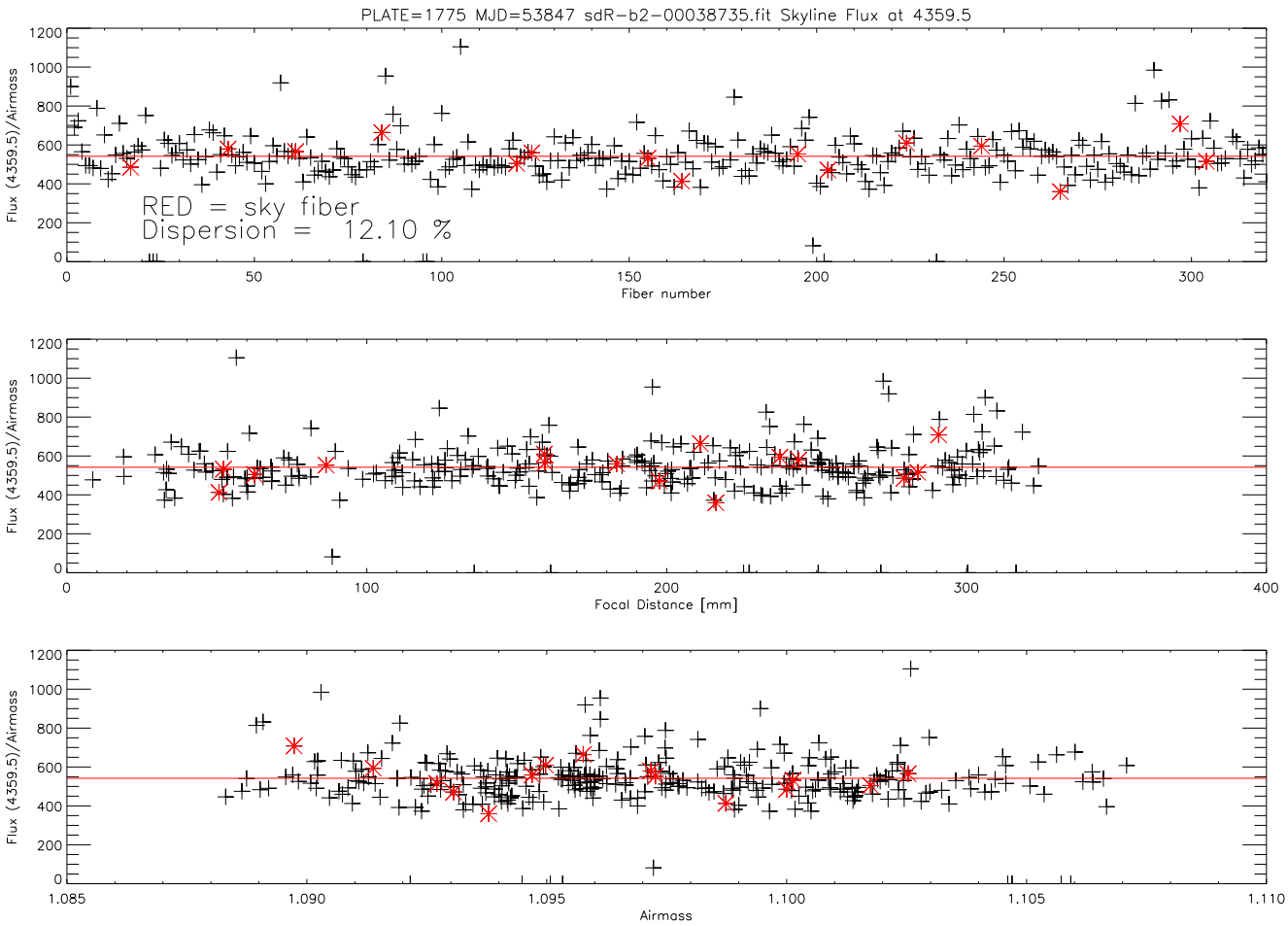

Number of sky fibers = 15
PLATE=1775 MJD=53847 sdR-b2-00038735.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

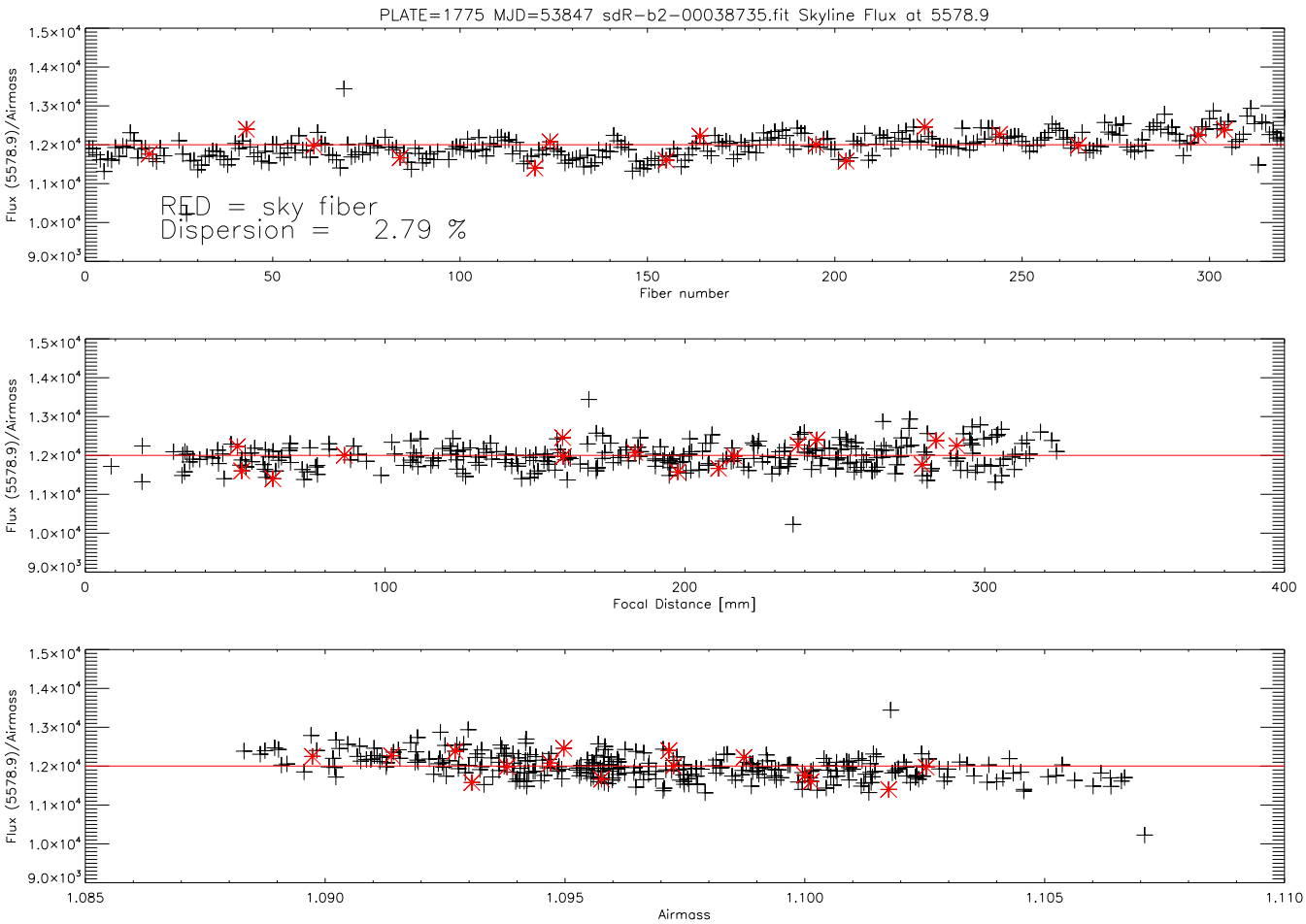

PLATE=1775 MJD=53847 sdR-b2-00038735.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

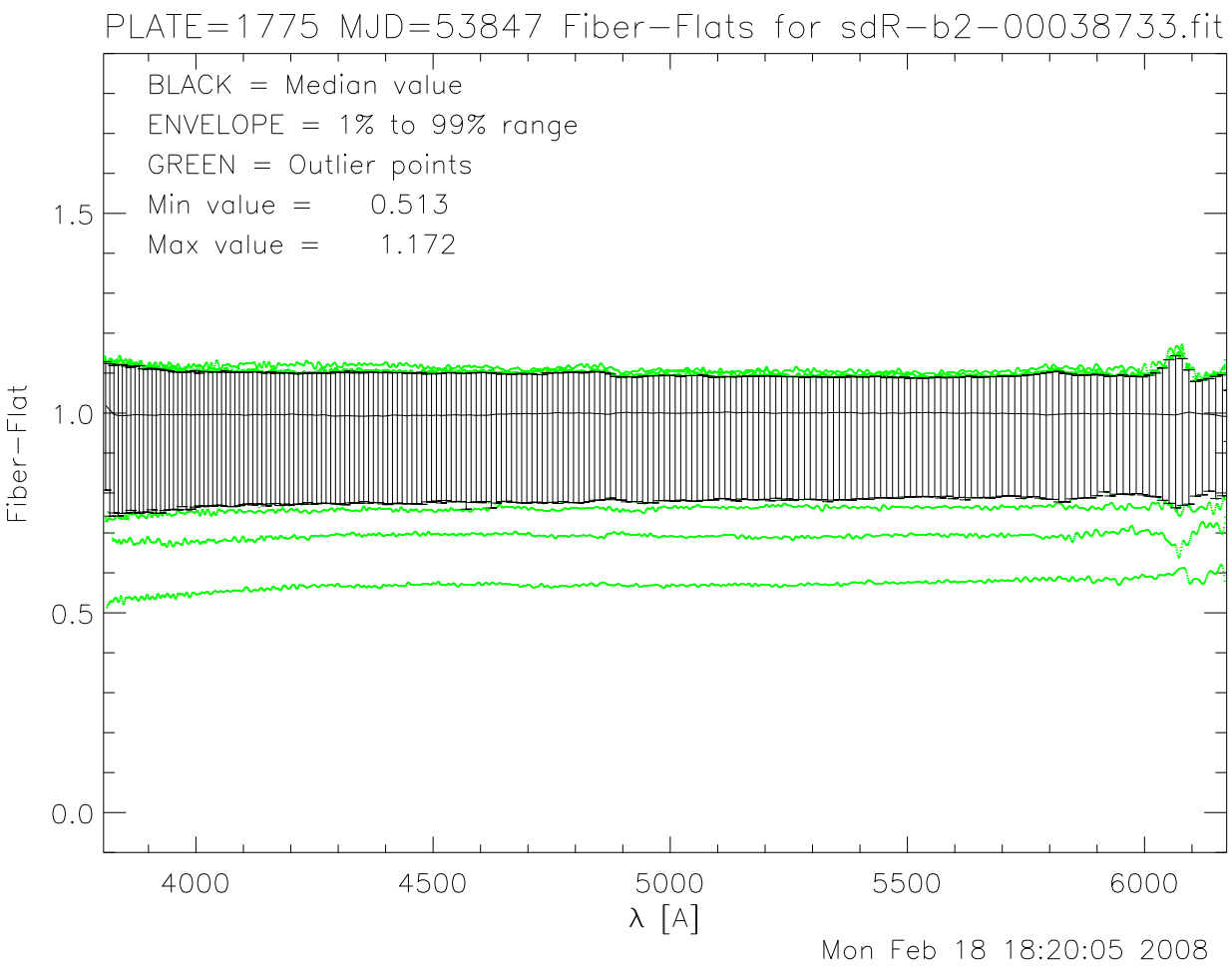

PLATE=1775 MJD=53847 sdR-b2-00038735.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

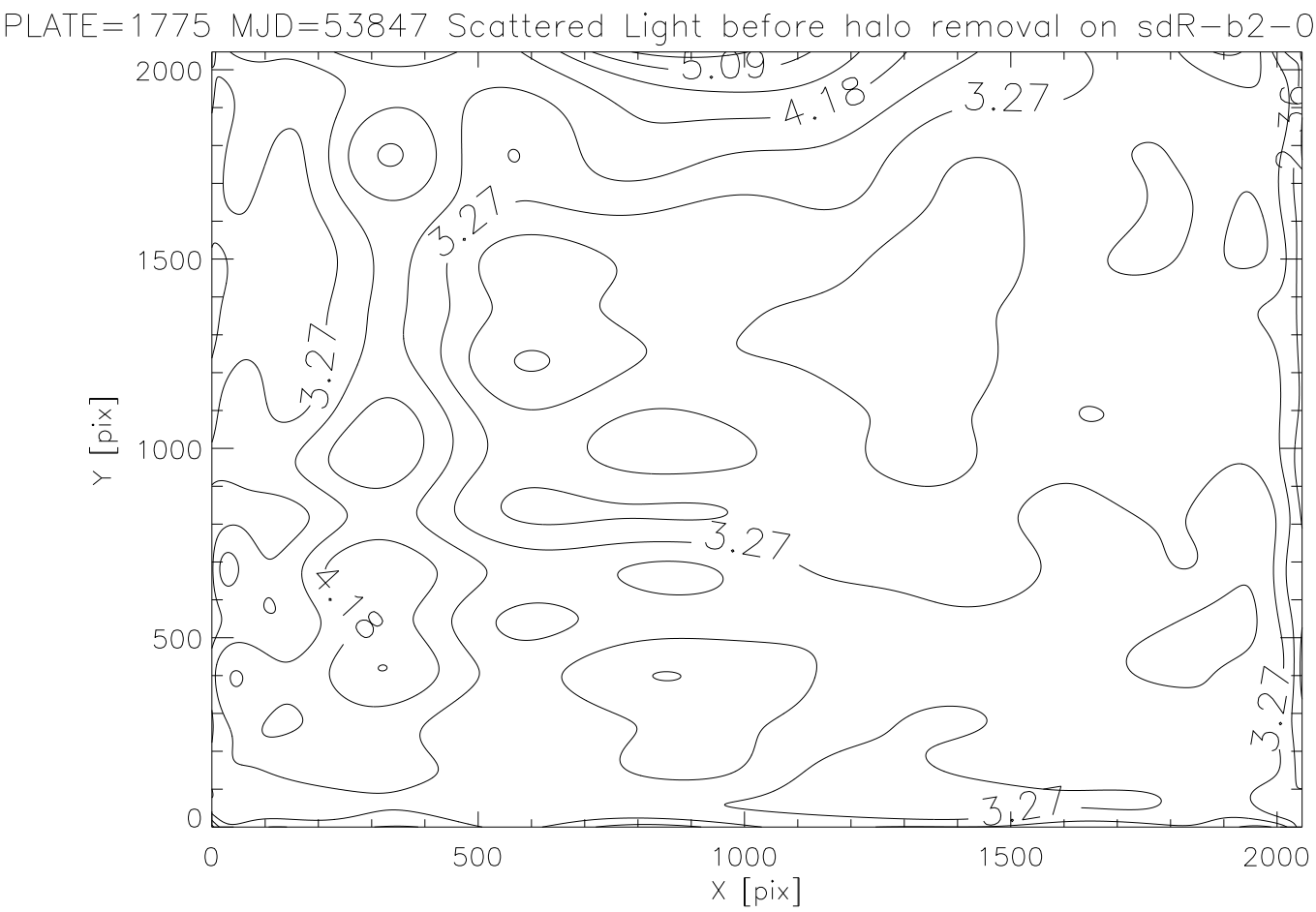

PLATE=1775 MJD=53847 sdR-b2-00038735.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

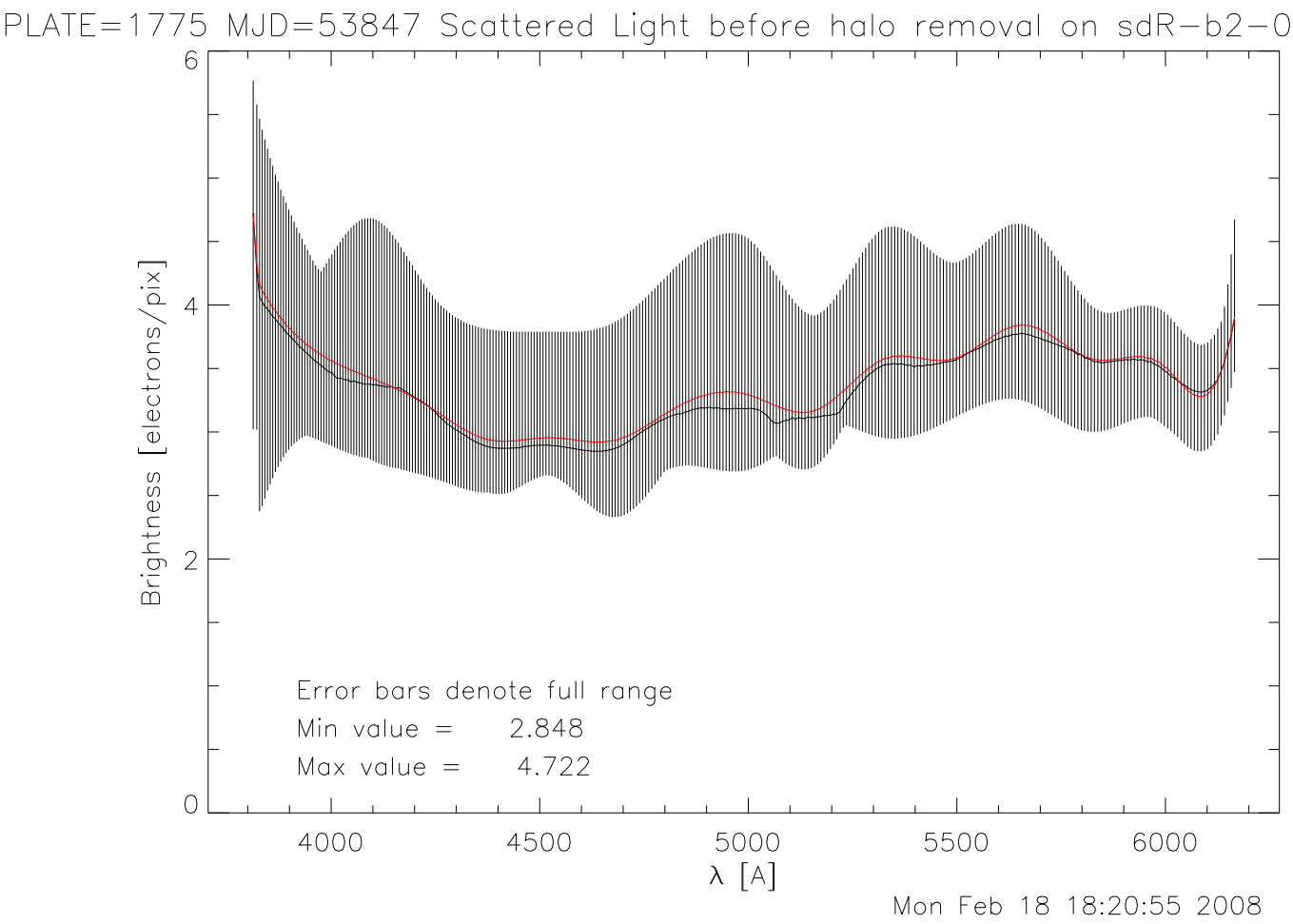

Number of sky fibers = 15
PLATE=1775 MJD=53847 sdR-b2-00038735.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

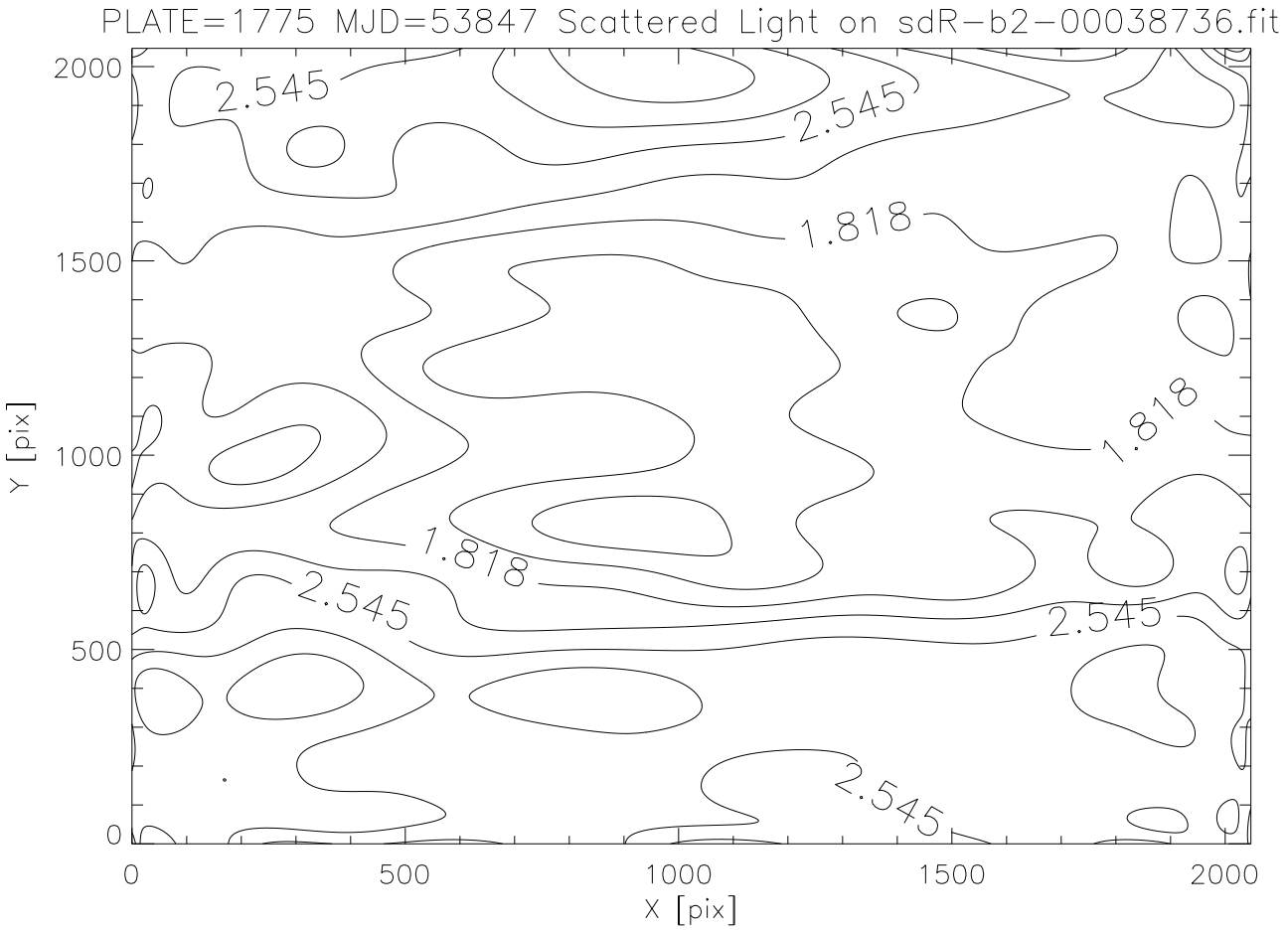

PLATE=1775 MJD=53847 sdR-b2-00038735.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 12.10 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

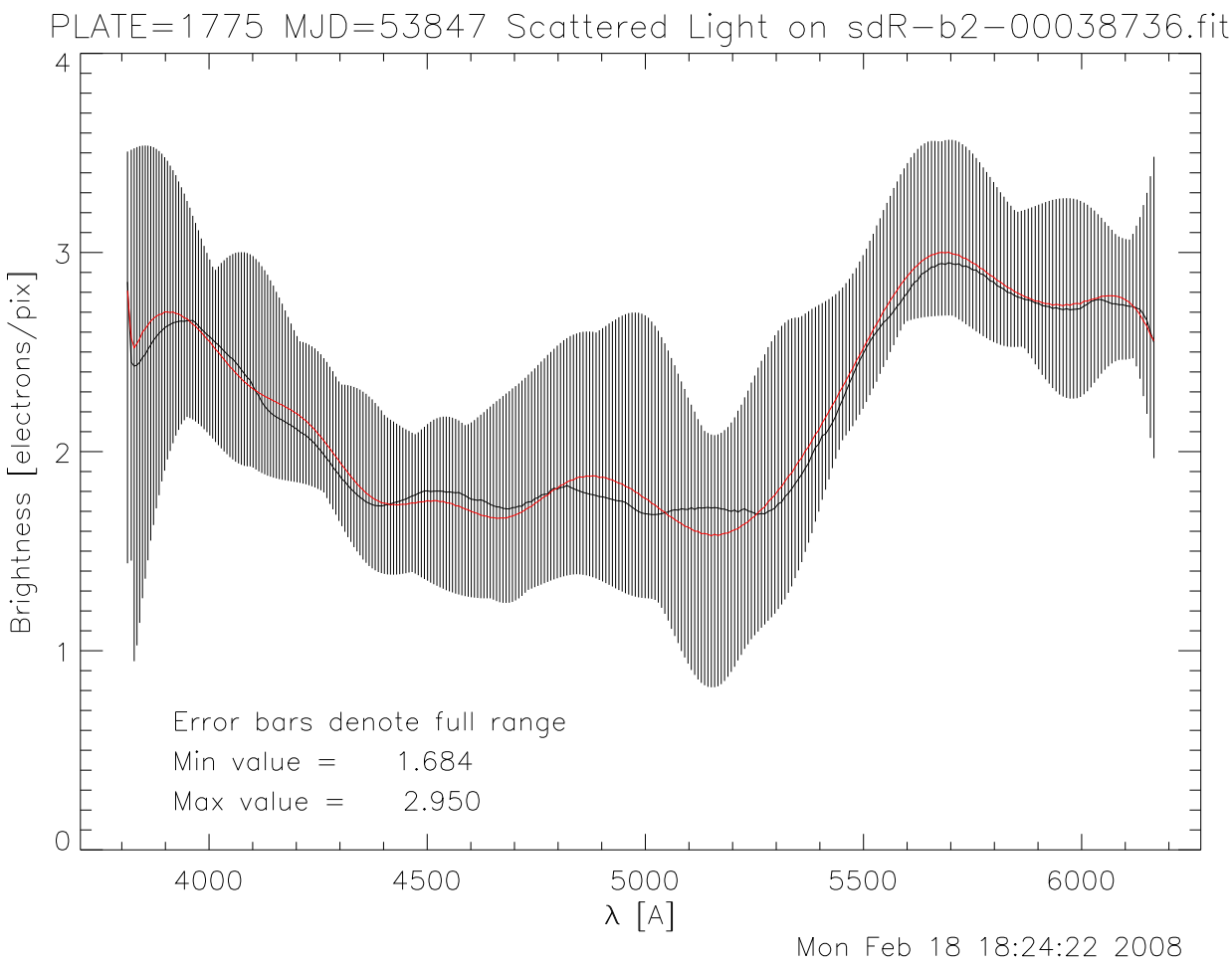

PLATE=1775 MJD=53847 sdR-b2-00038735.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.79 %
Fiber number
Focal Distance [mm]
Airmass

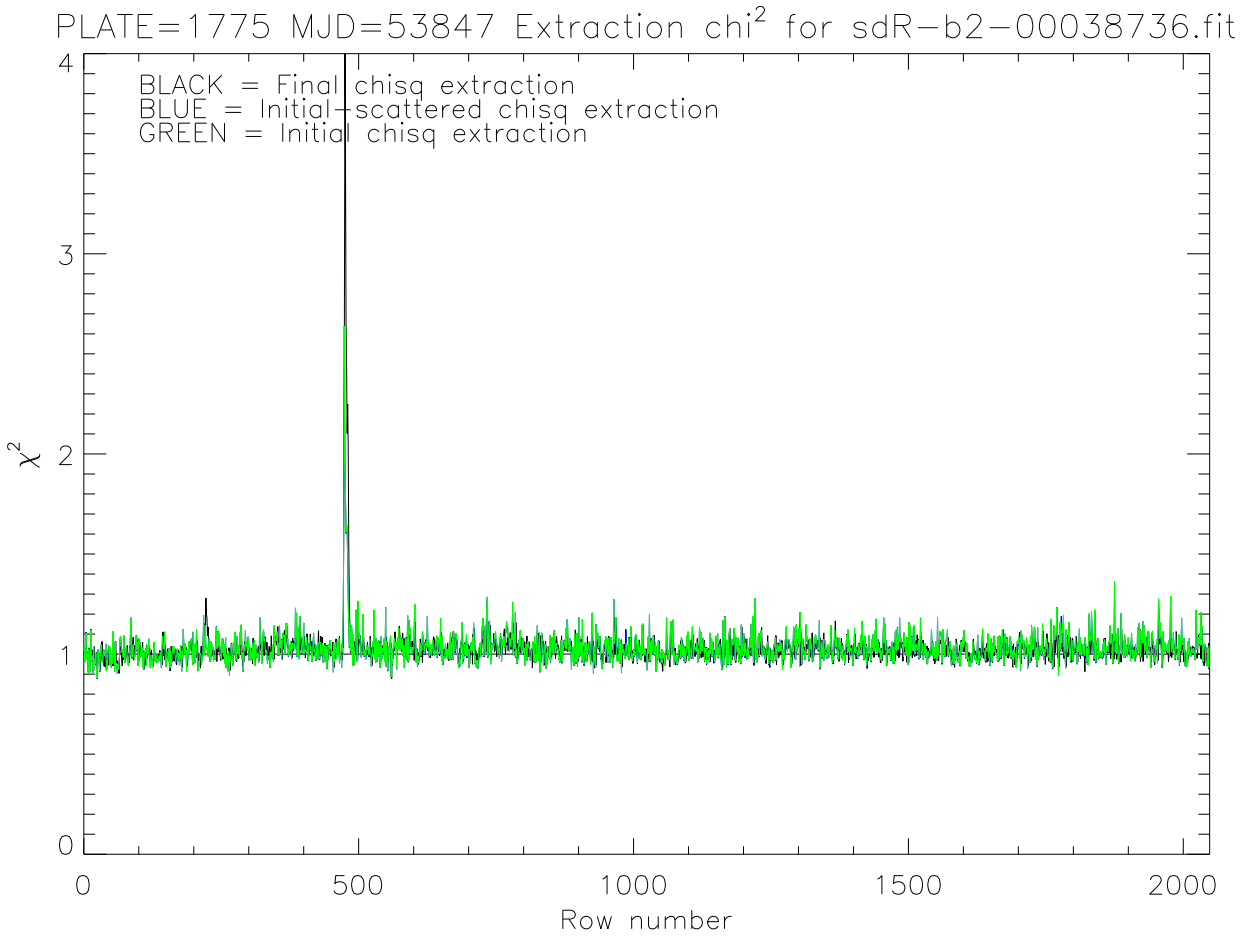

PLATE=1775 MJD=53847 Fiber-Flats for sdR-b2-00038733.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.513
Max value = 1.172
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 18 18:20:05 2008

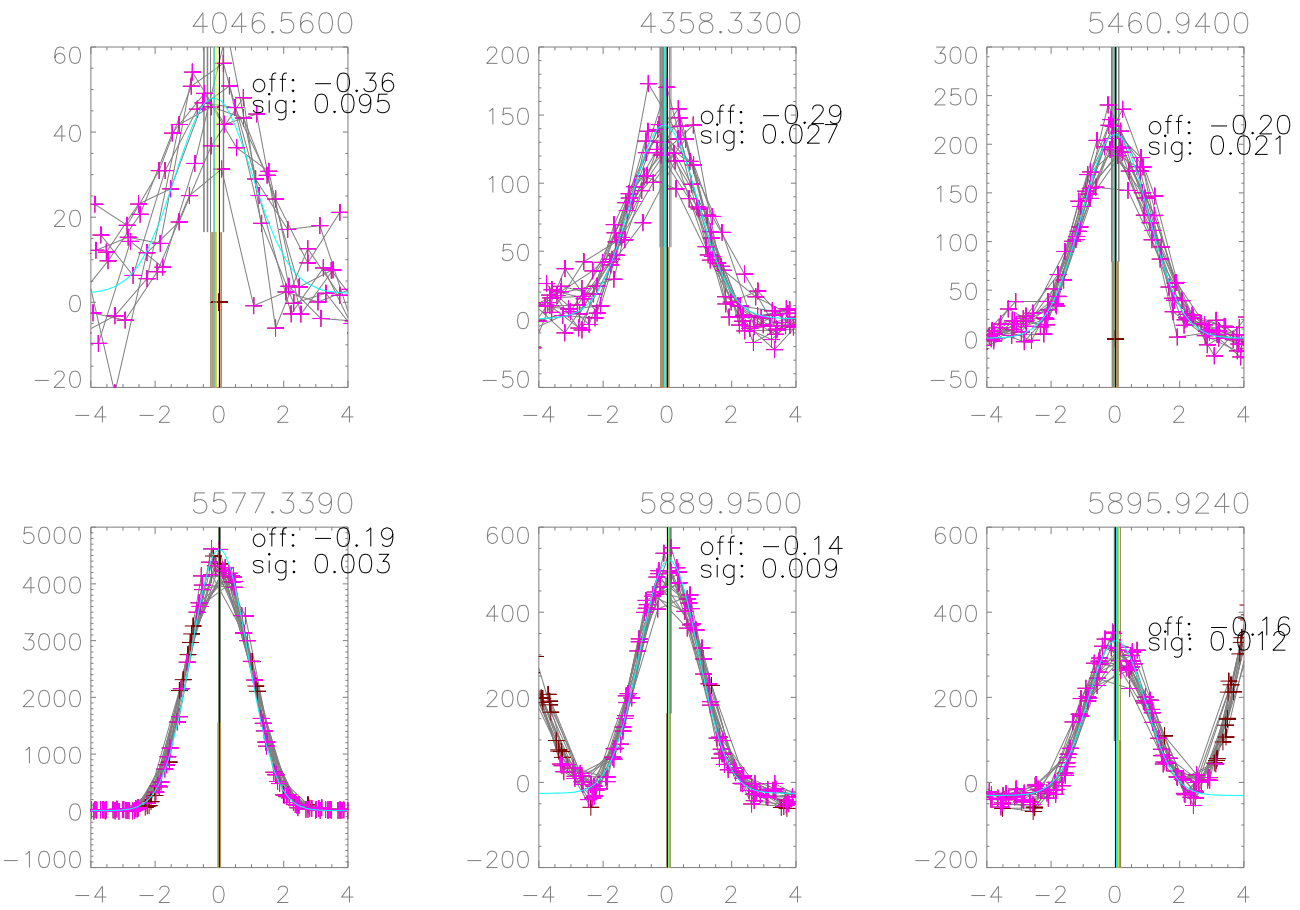

PLATE=1775 MJD=53847 Scattered Light before halo removal on sdR−b2−00038736.f
5.09
4.18
3.27
3.27
3.27
3.27
4.18
3.27
3.27
3.27
Y [pix]
X [pix]
0
500
1000
1500
2000

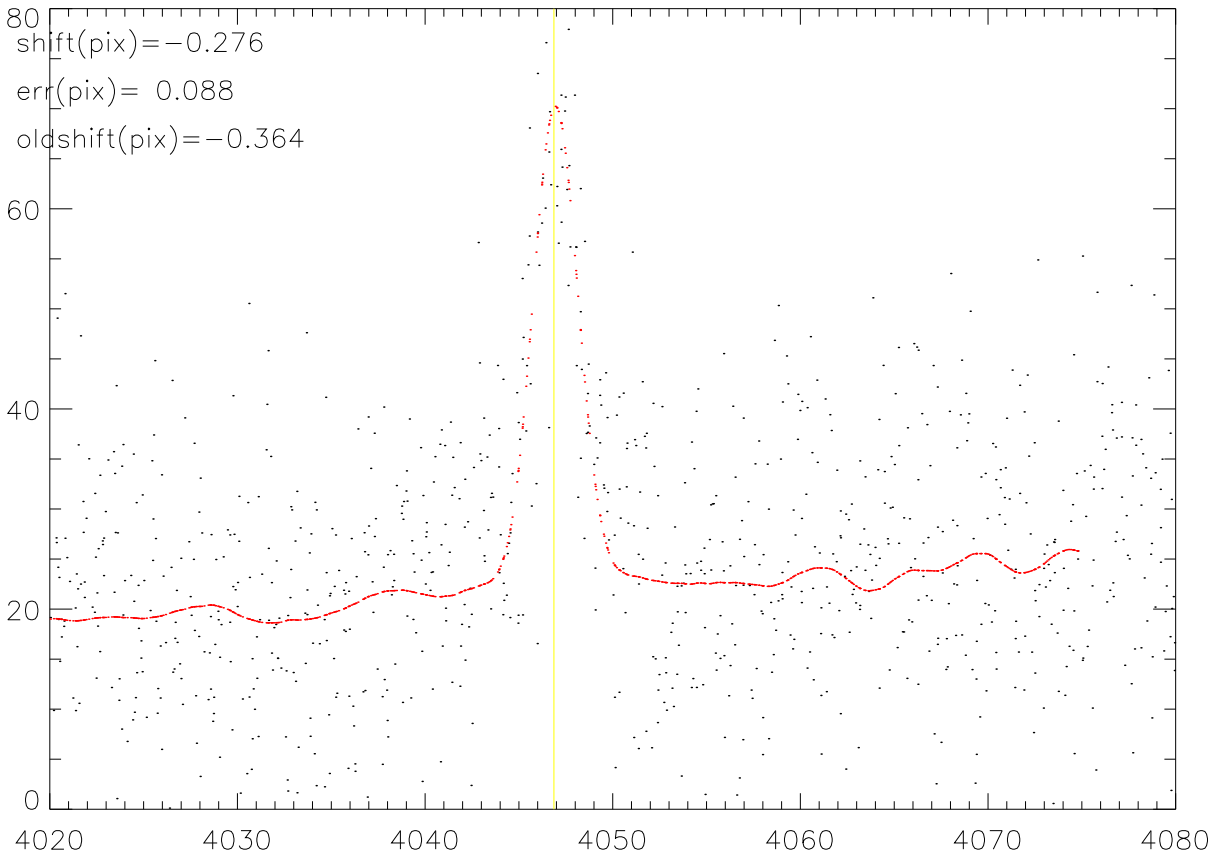

PLATE=1775 MJD=53847 Scattered Light before halo removal on sdR-b2-00038736.f
Brightness [electrons/pix]
0
2
4
6
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 2.848
Max value = 4.722
Mon Feb 18 18:20:55 2008

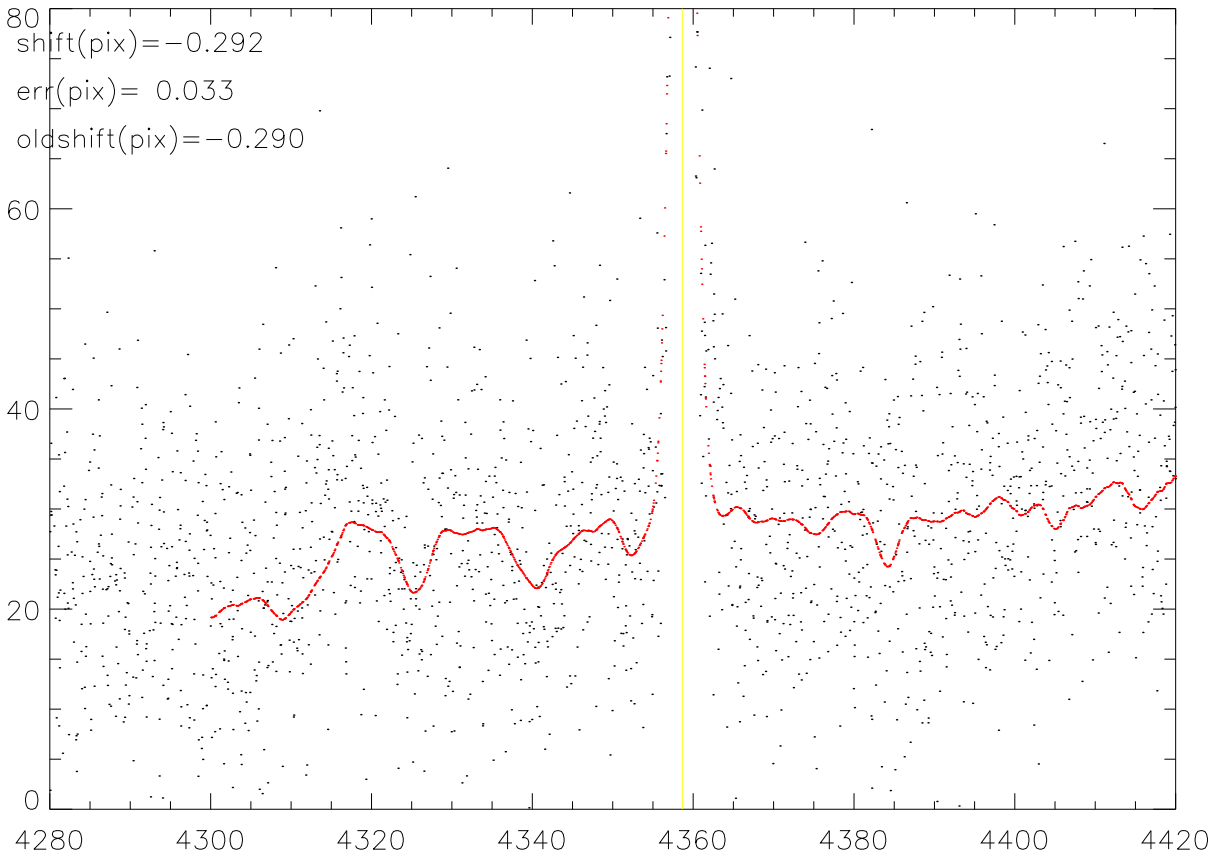

PLATE=1775 MJD=53847 Scattered Light on sdR-b2-00038736.fit
2.545
2.545
1.818
1.818
1.818
2.545
2.545
2.545
2000
1500
1000
500
0
0
500
1000
1500
2000
Y [pix]
X [pix]

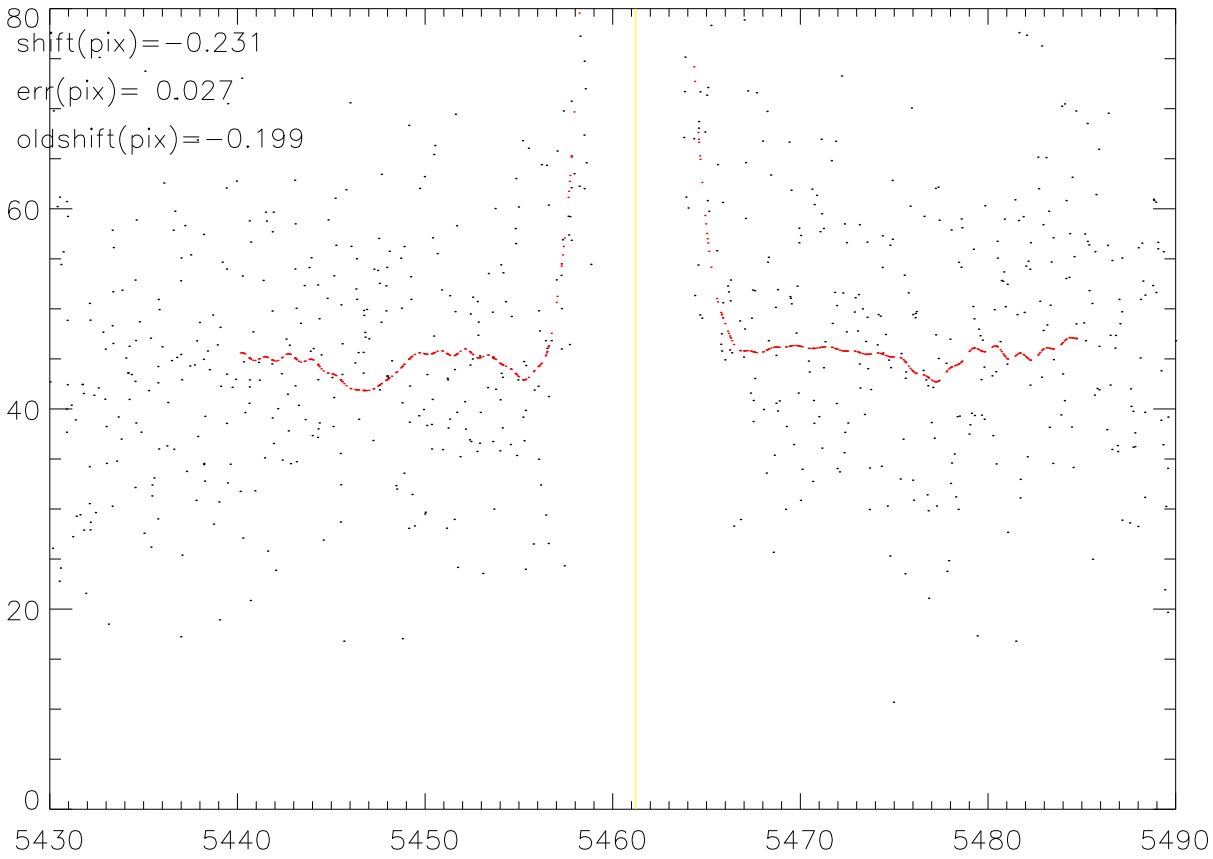

PLATE=1775 MJD=53847 Scattered Light on sdR-b2-00038736.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 1.684
Max value = 2.950
Mon Feb 18 18:24:22 2008

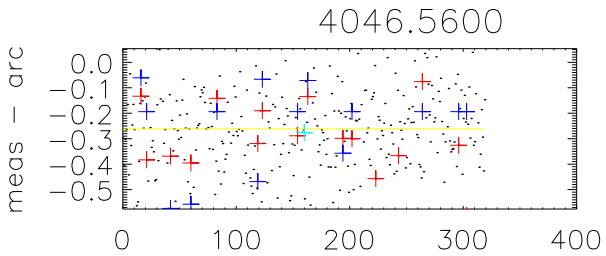

PLATE=1775 MJD=53847 Extraction chi^2 for sdR-b2-00038736.fit
BLACK = Final chisq extraction
BLUE = Initial+scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

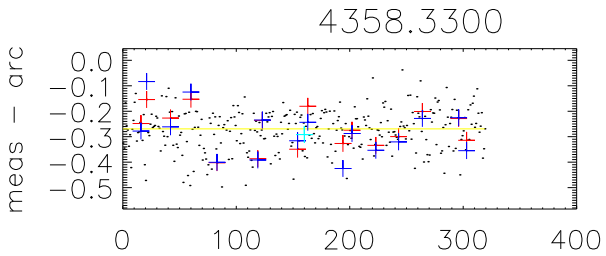

4046.5600
off: −0.36
sig: 0.095
4358.3300
off: −0.29
sig: 0.027
5460.9400
off: −0.20
sig: 0.021
5577.3390
off: −0.19
sig: 0.003
5889.9500
off: −0.14
sig: 0.009
5895.9240
off: −0.16
sig: 0.012

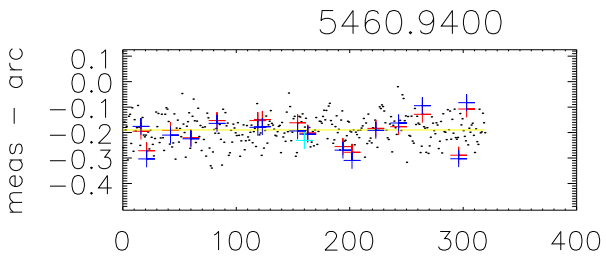

shift(pix)=−0.276
err(pix)= 0.088
oldshift(pix)=−0.364
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

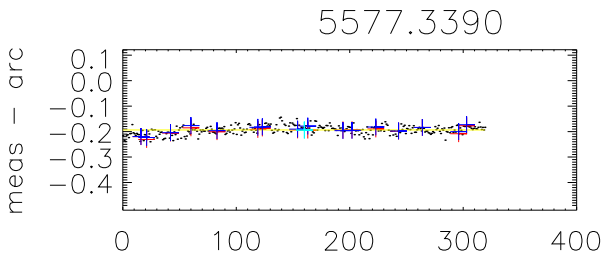

shift(pix)=−0.292
err(pix)= 0.033
oldshift(pix)=−0.290
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

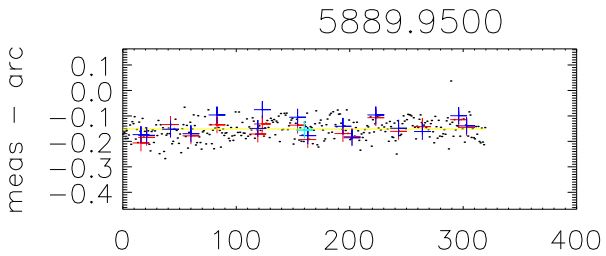

shift(pix)=−0.231
err(pix)= 0.027
oldshift(pix)=−0.199
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

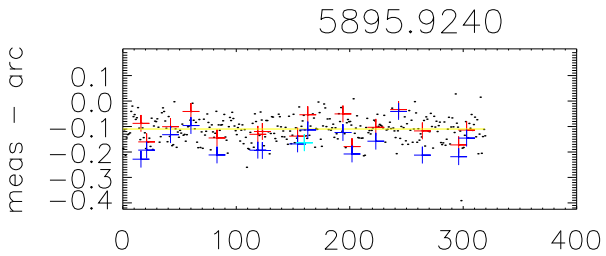

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

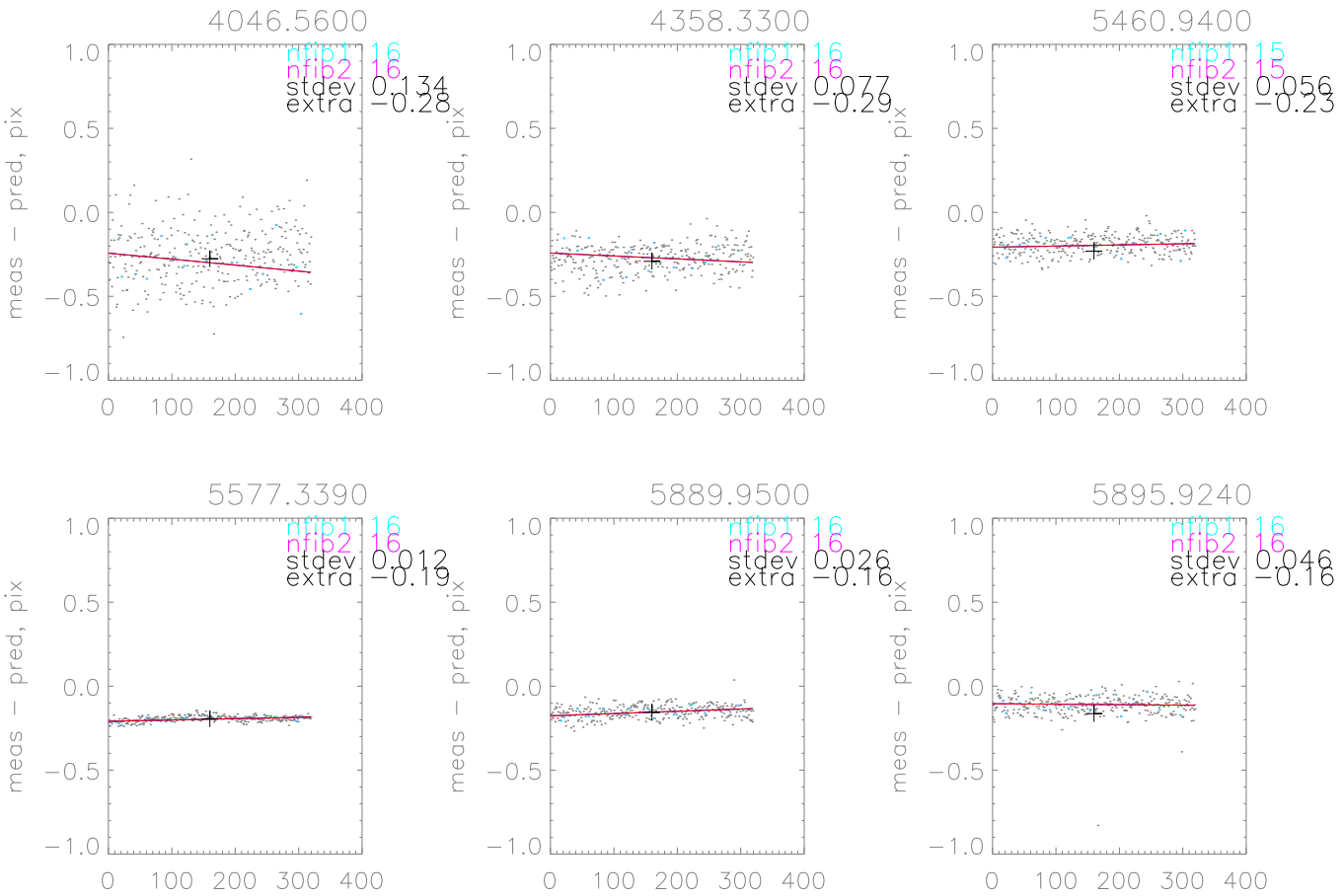

4358.3300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

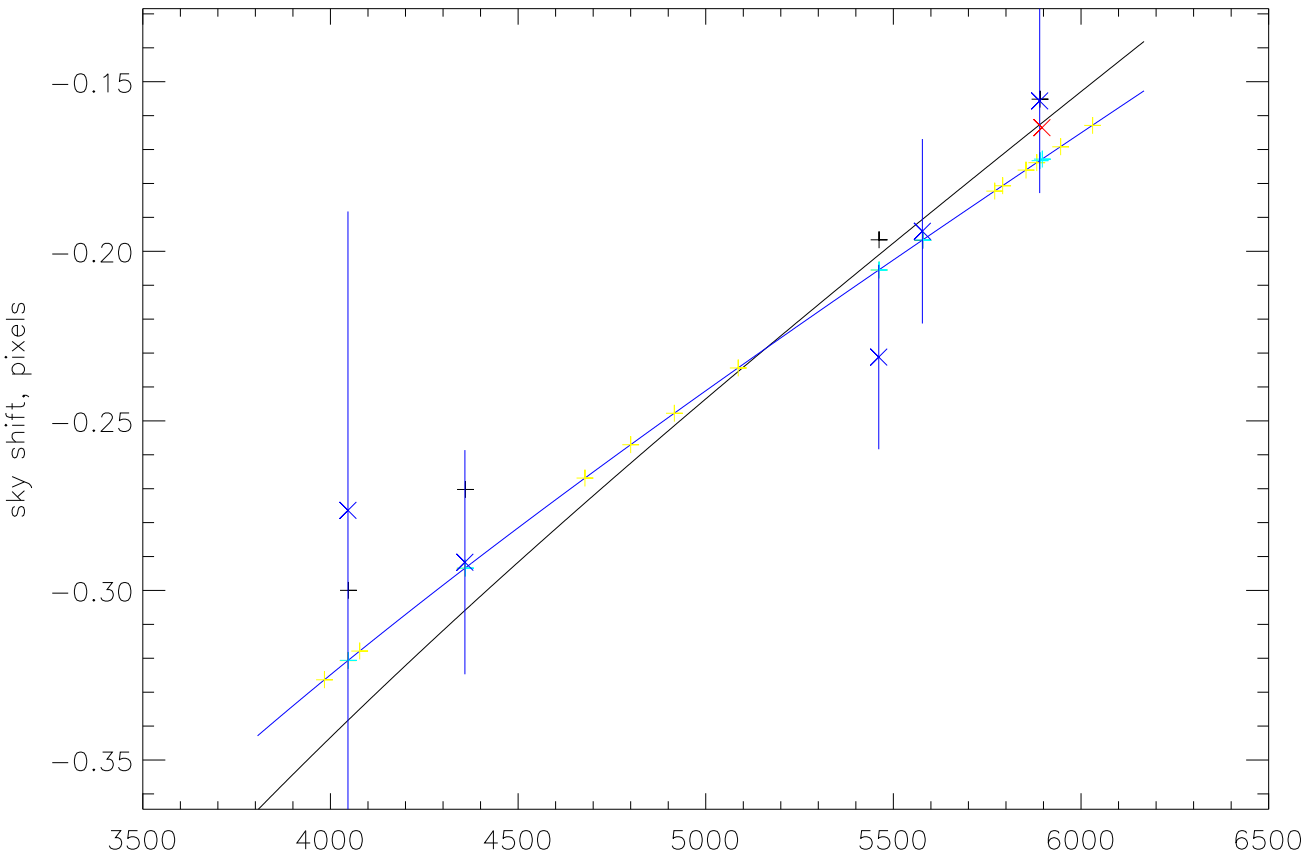

5460.9400
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

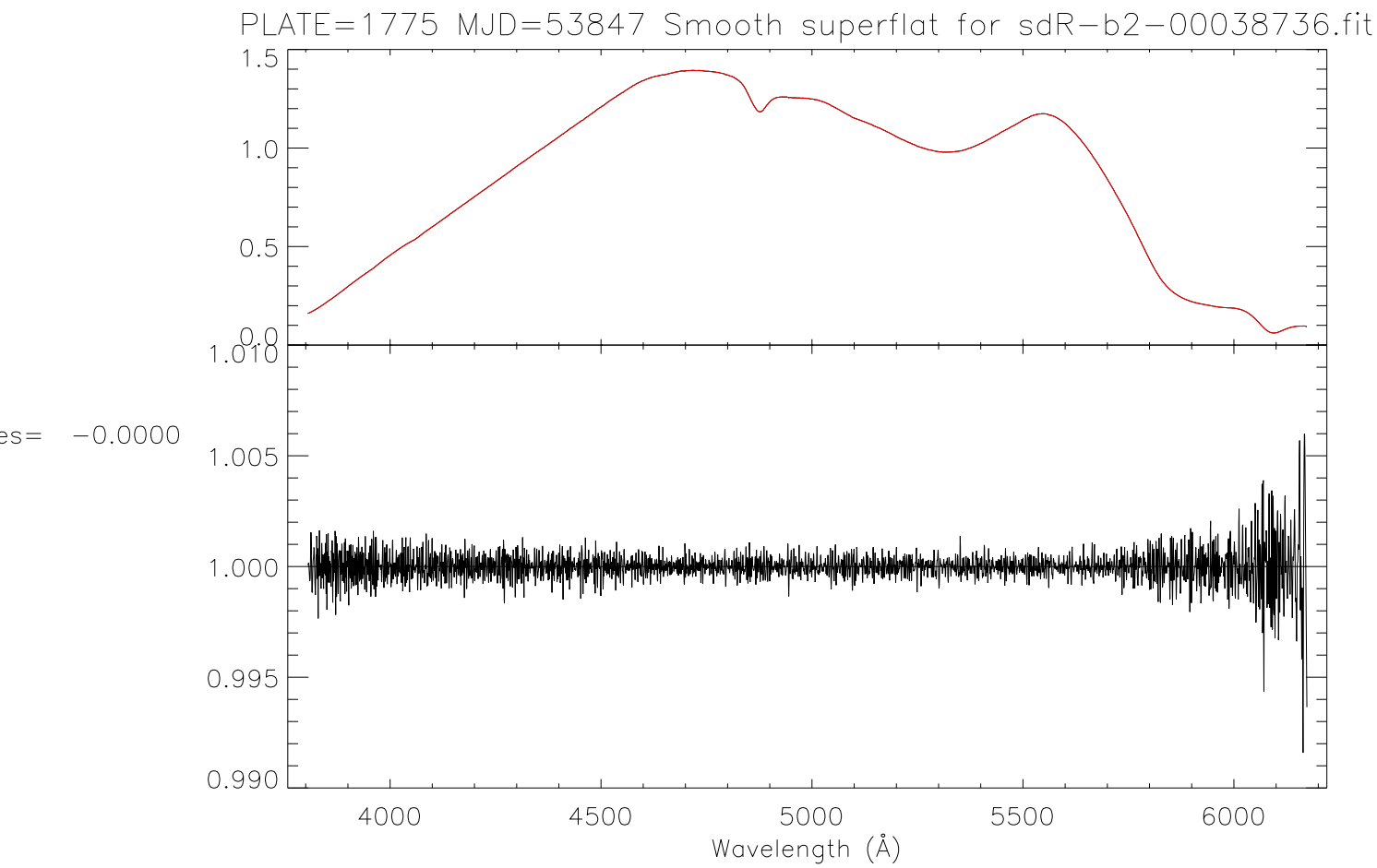

5577.3390
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

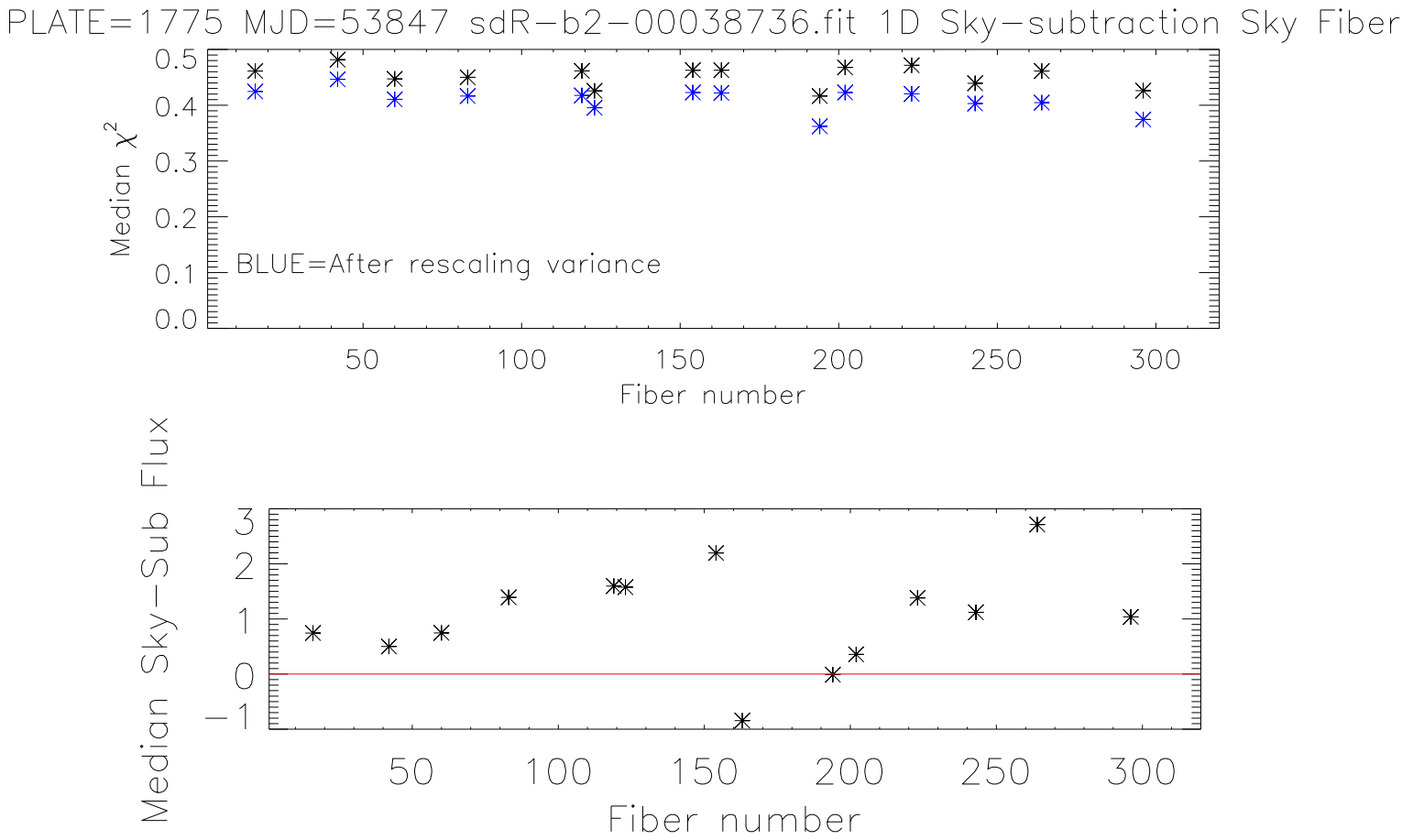

5889.9500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

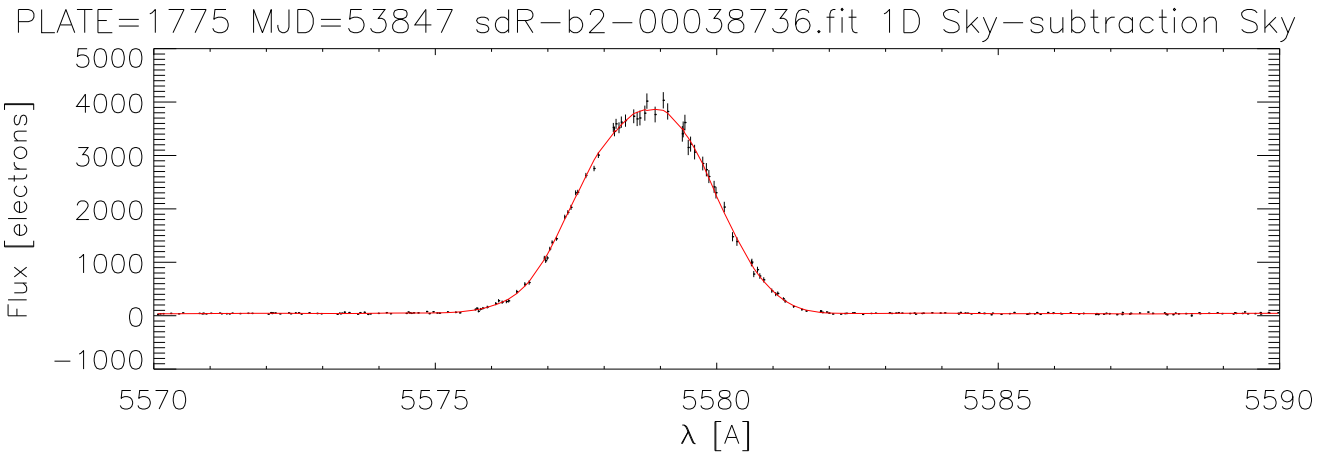

5895.9240
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

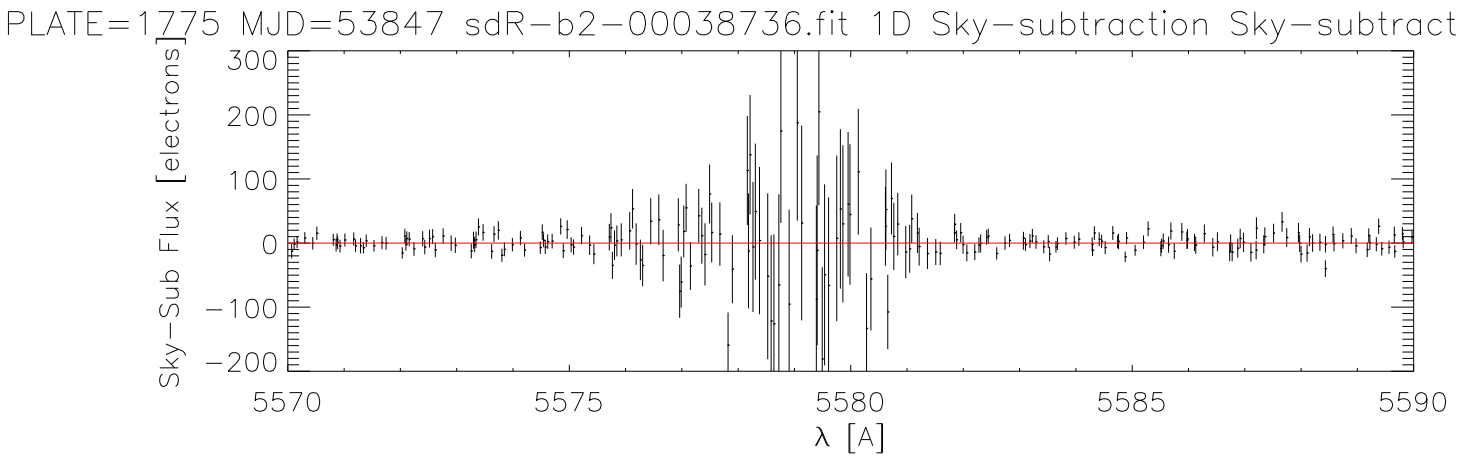

4046.5600
nfib1 16
nfib2 16
stdev 0.134
extra −0.28
4358.3300
nfib1 16
nfib2 16
stdev 0.077
extra −0.29
5460.9400
nfib1 15
nfib2 15
stdev 0.056
extra −0.23
5577.3390
nfib1 16
nfib2 16
stdev 0.012
extra −0.19
5889.9500
nfib1 16
nfib2 16
stdev 0.026
extra −0.16
5895.9240
nfib1 16
nfib2 16
stdev 0.046
extra −0.16
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

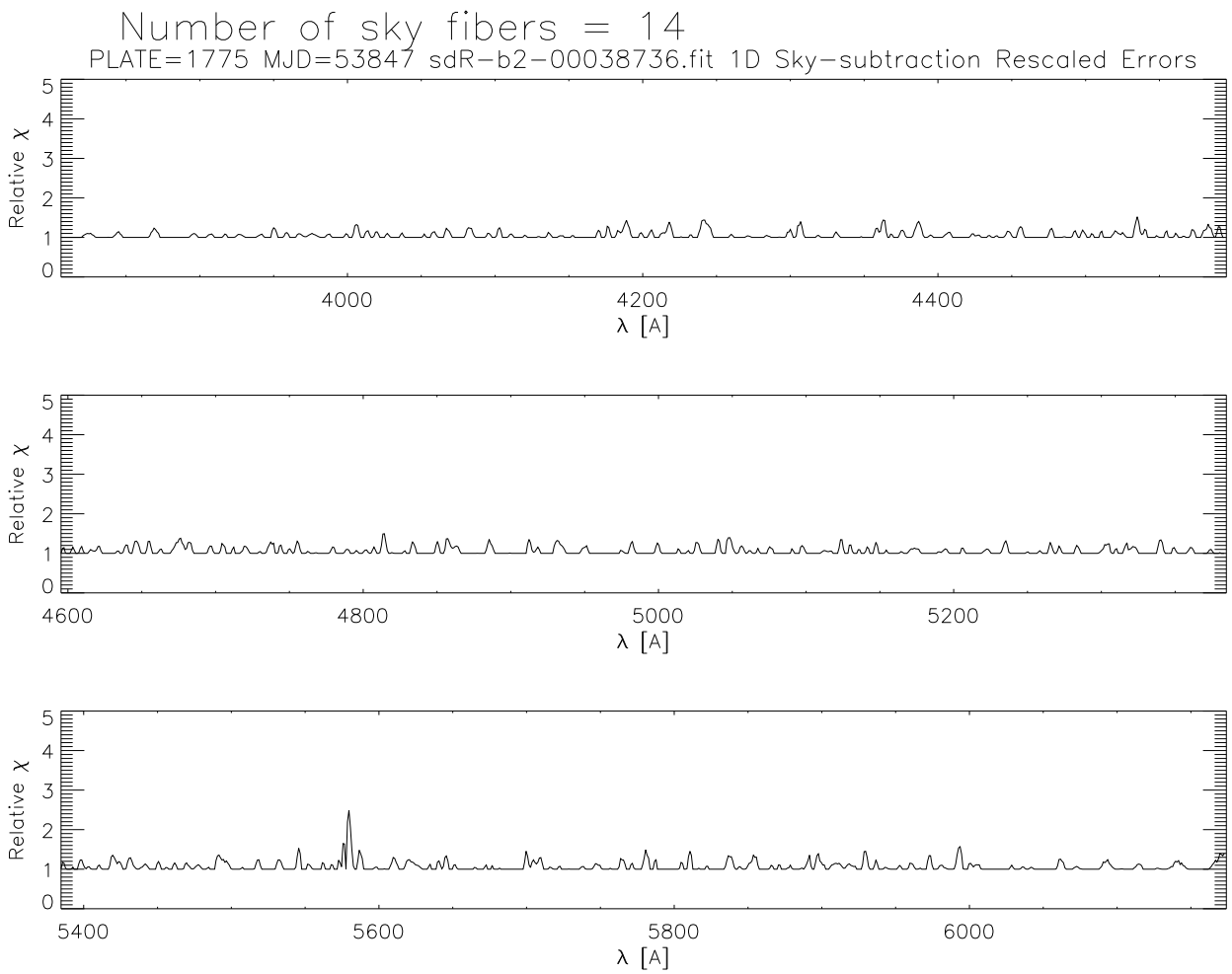

−0.15
−0.20
−0.25
−0.30
−0.35
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

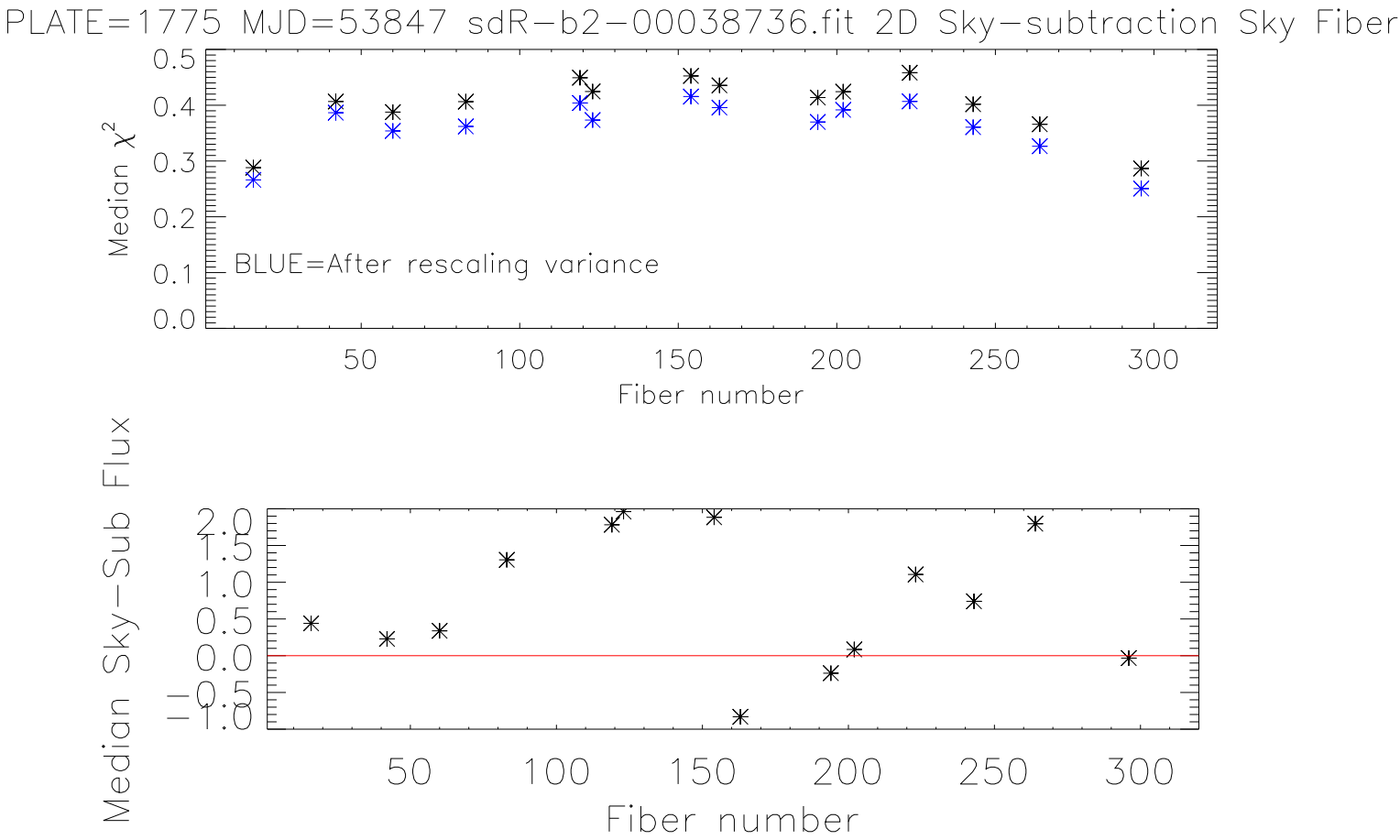

PLATE=1775 MJD=53847 Smooth superflat for sdR-b2-00038736.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= -0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

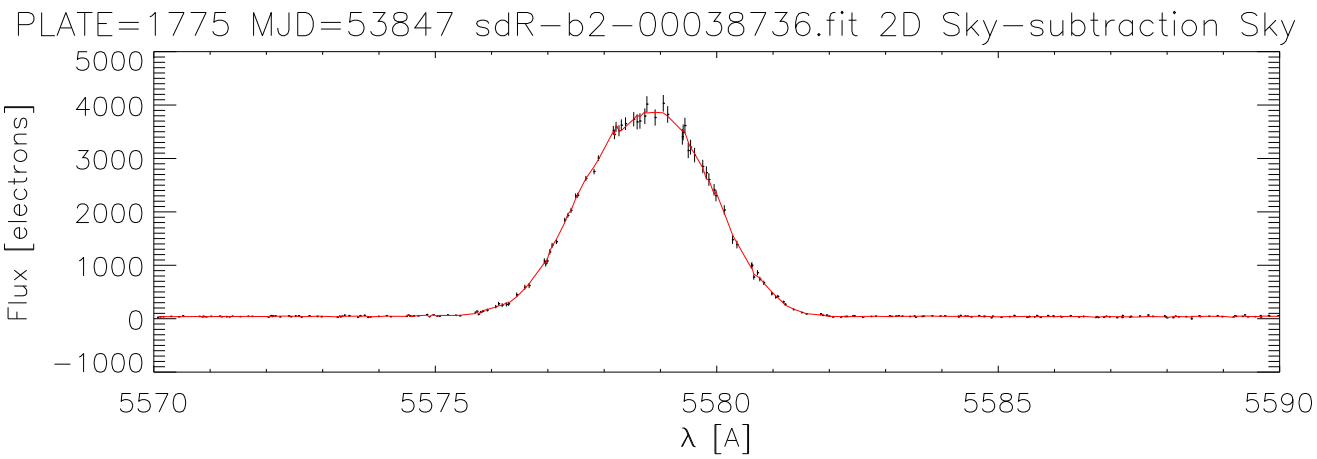

PLATE=1775 MJD=53847 sdR-b2-00038736.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
−1
0
1
2
3
50
100
150
200
250
300
Fiber number

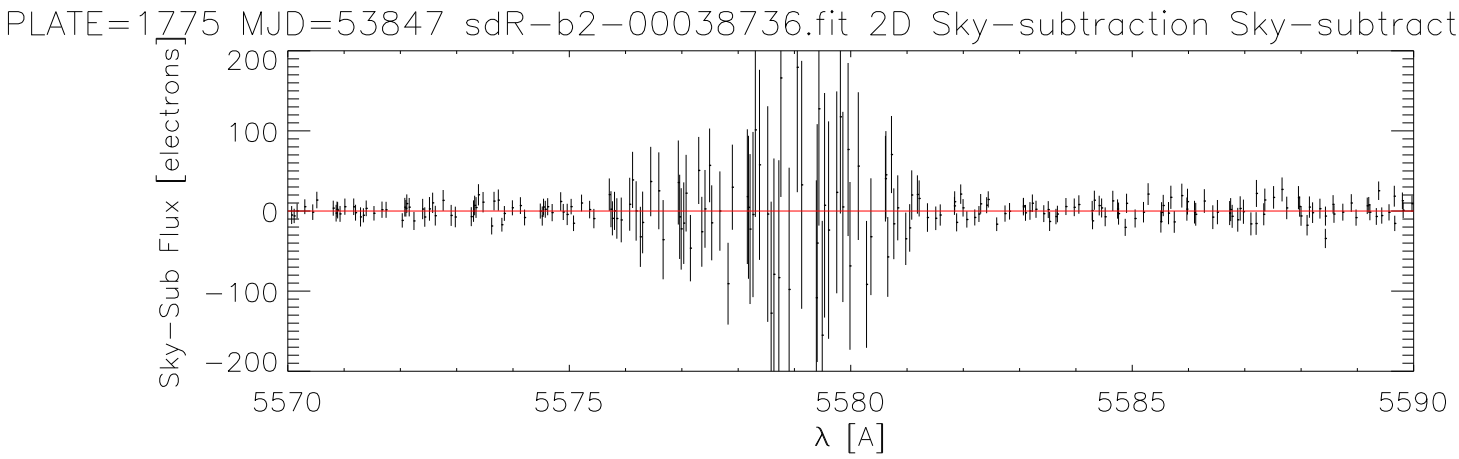

PLATE=1775 MJD=53847 sdR-b2-00038736.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
−1000
5570
5575
5580
5585
5590
λ [A]

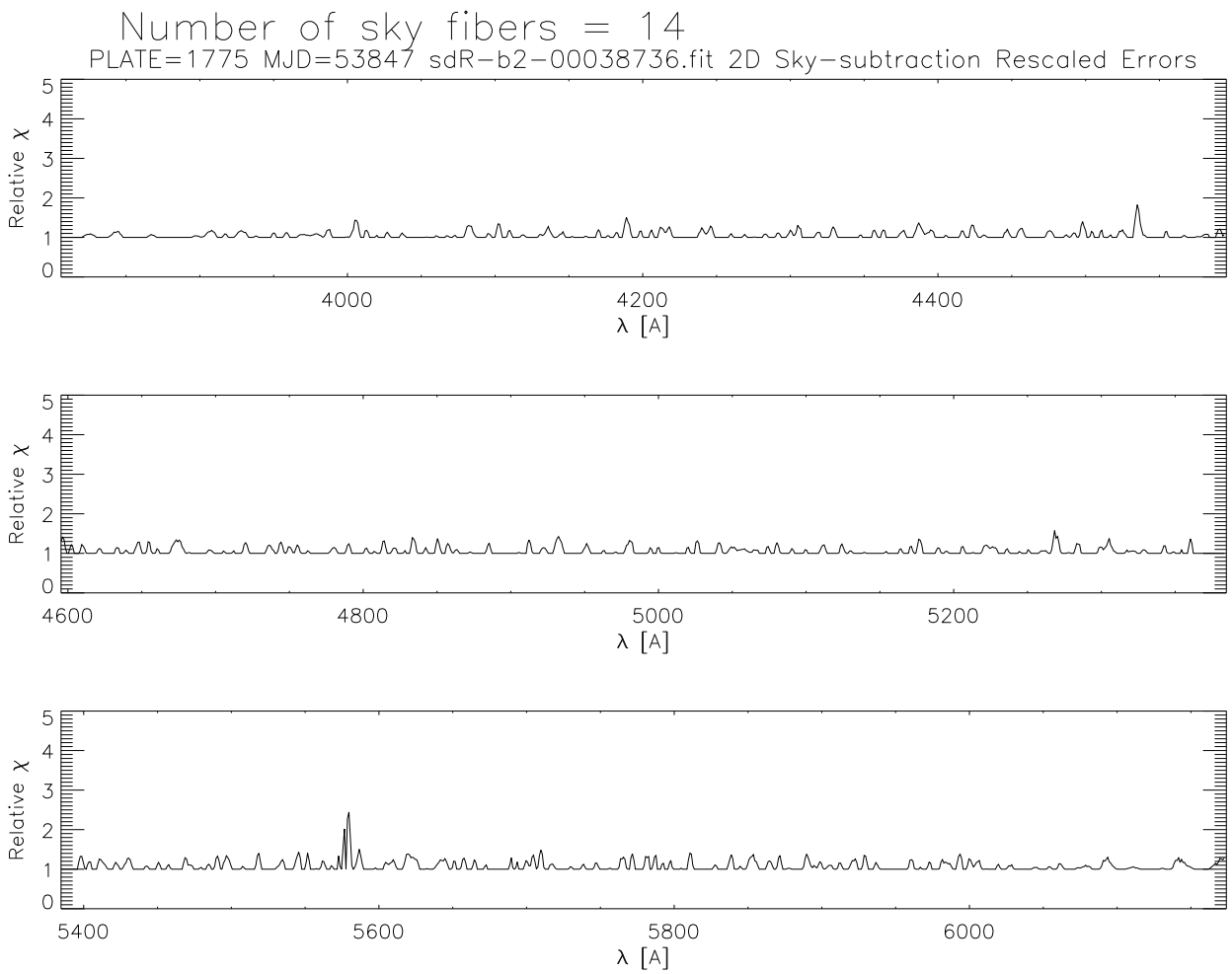

PLATE=1775 MJD=53847 sdR-b2-00038736.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
−100
−200
5570
5575
5580
5585
5590
λ [A]

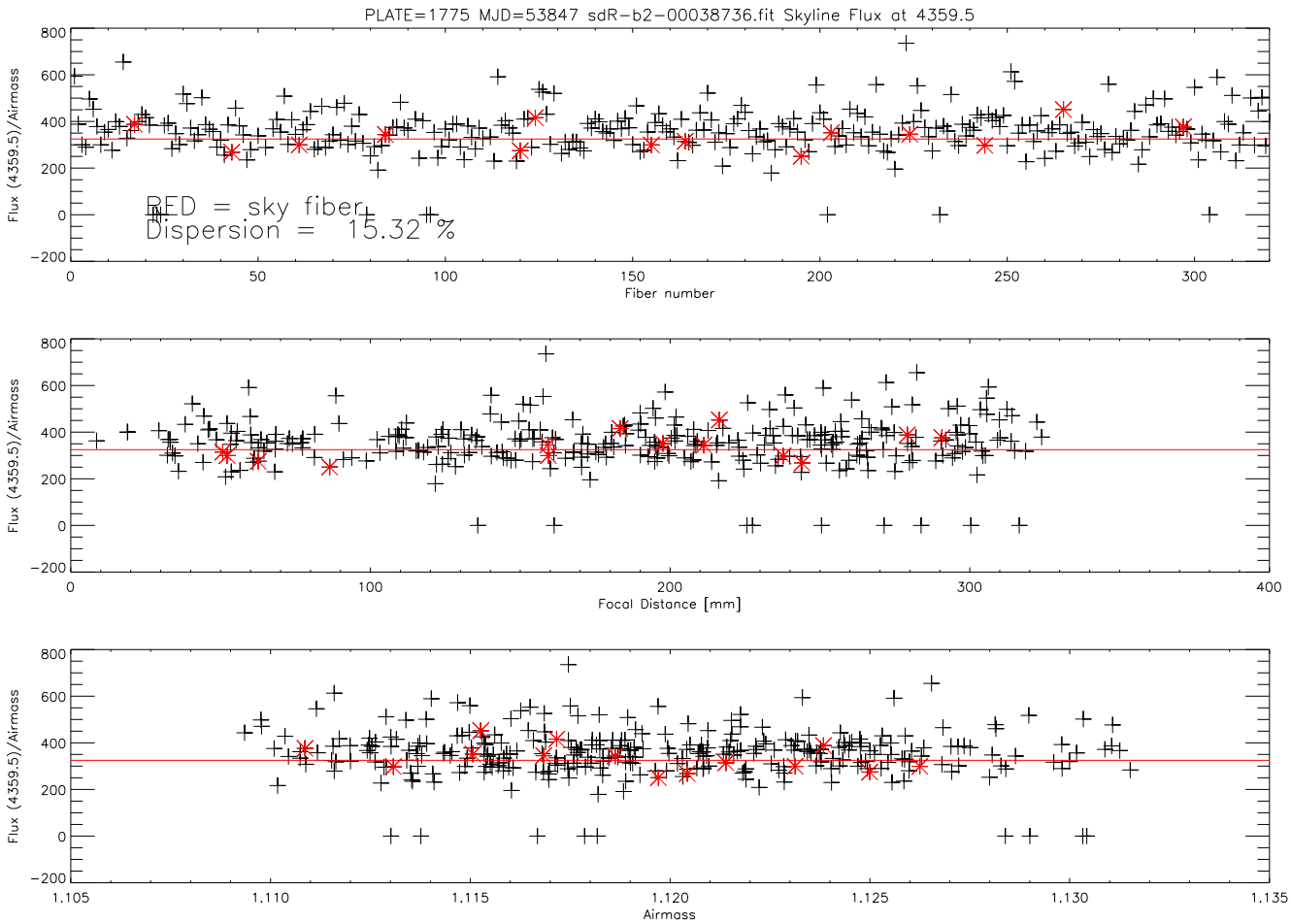

Number of sky fibers = 14
PLATE=1775 MJD=53847 sdR-b2-00038736.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

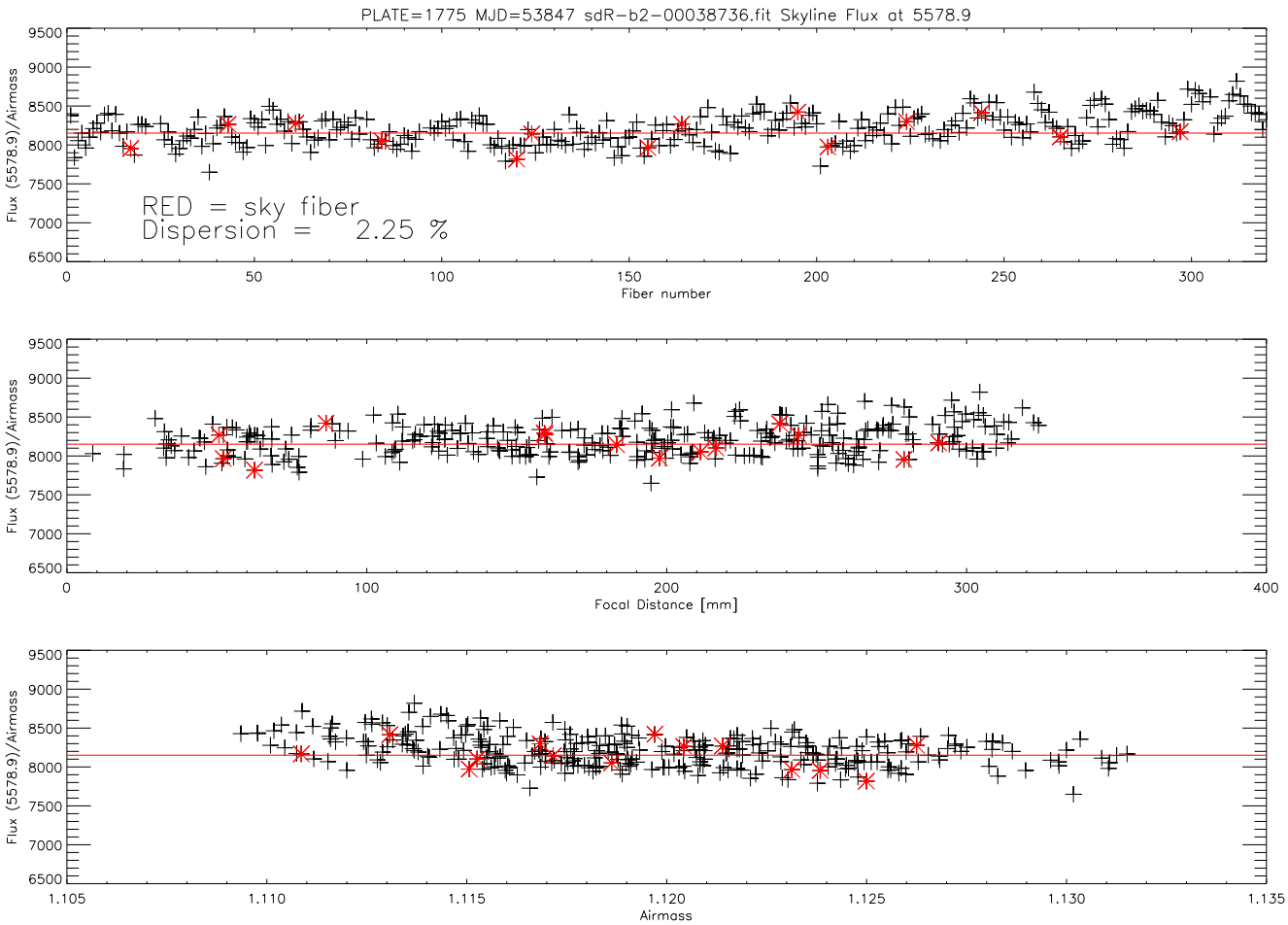

PLATE=1775 MJD=53847 sdR-b2-00038736.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

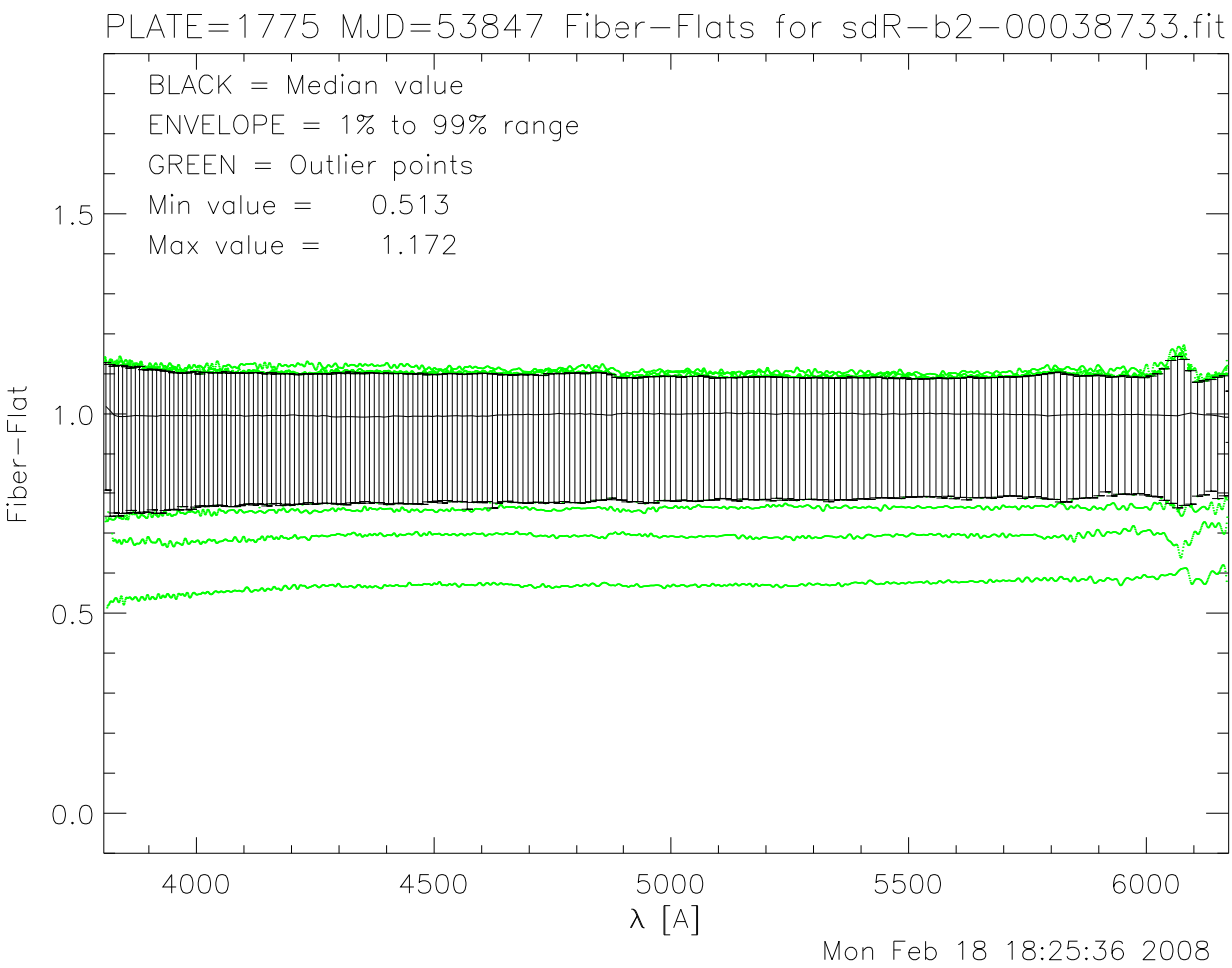

PLATE=1775 MJD=53847 sdR-b2-00038736.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
−1000
5570
5575
5580
5585
5590
λ [A]

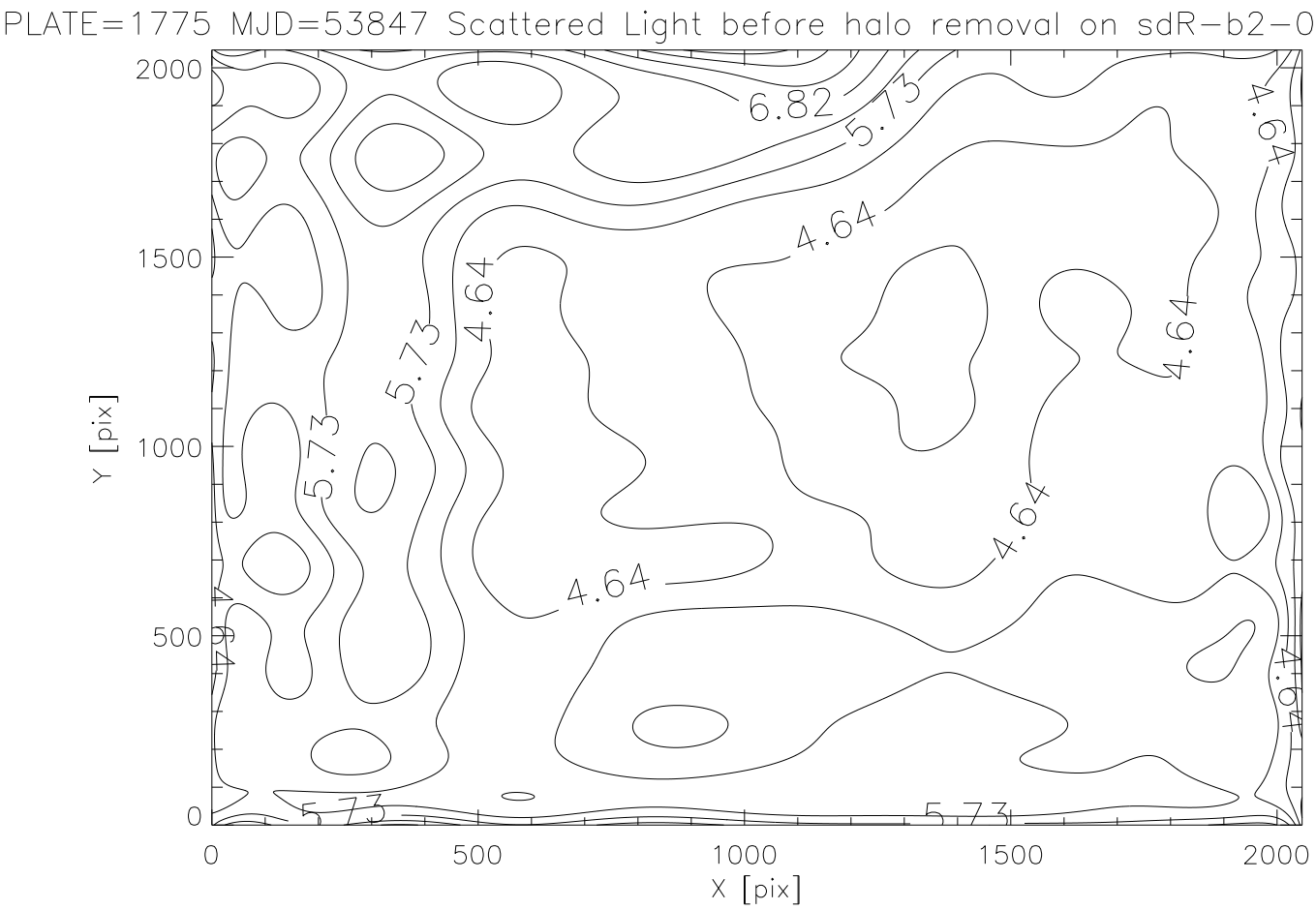

PLATE=1775 MJD=53847 sdR-b2-00038736.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
−100
−200
5570
5575
5580
5585
5590
λ [A]

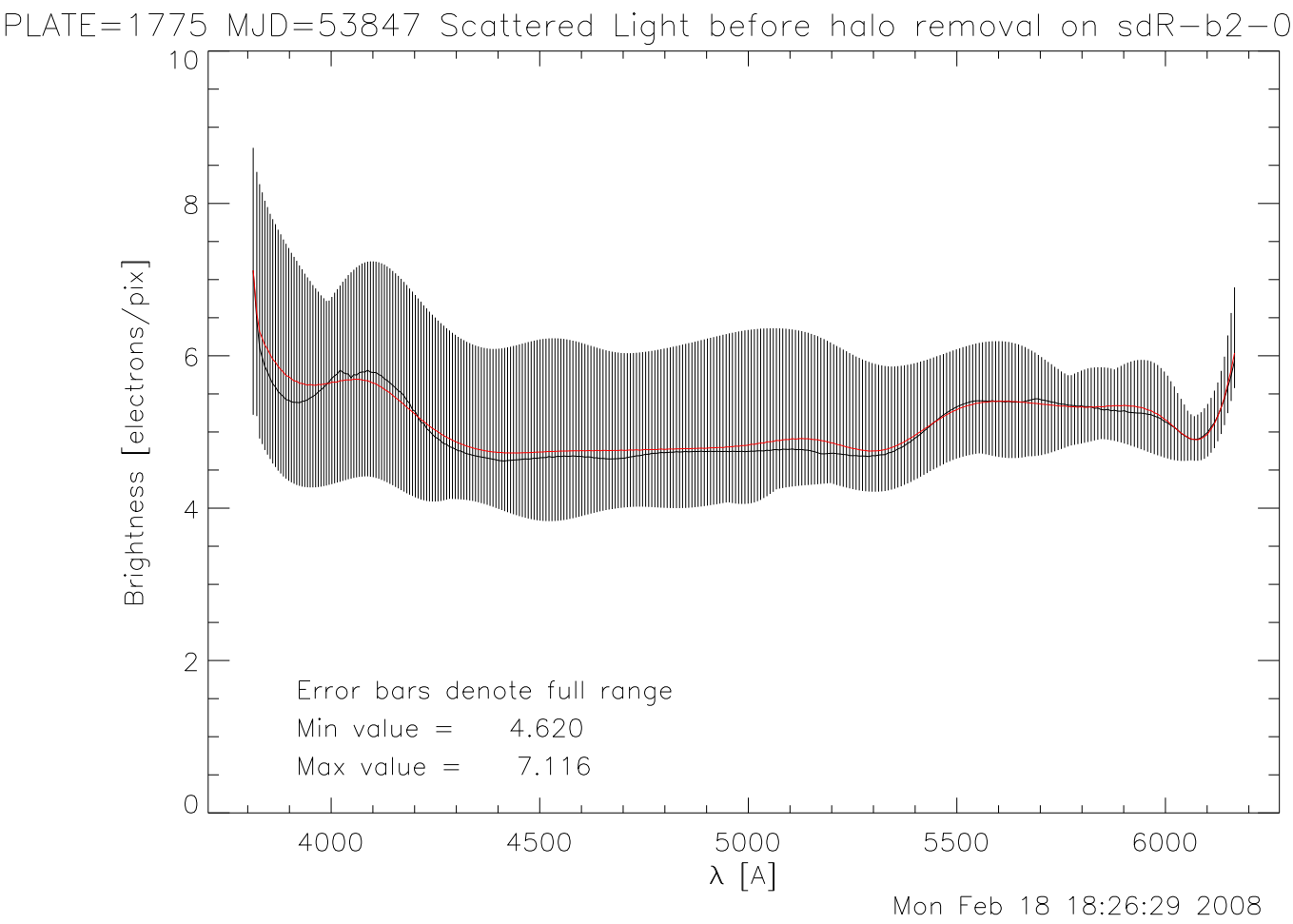

Number of sky fibers = 14
PLATE=1775 MJD=53847 sdR-b2-00038736.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

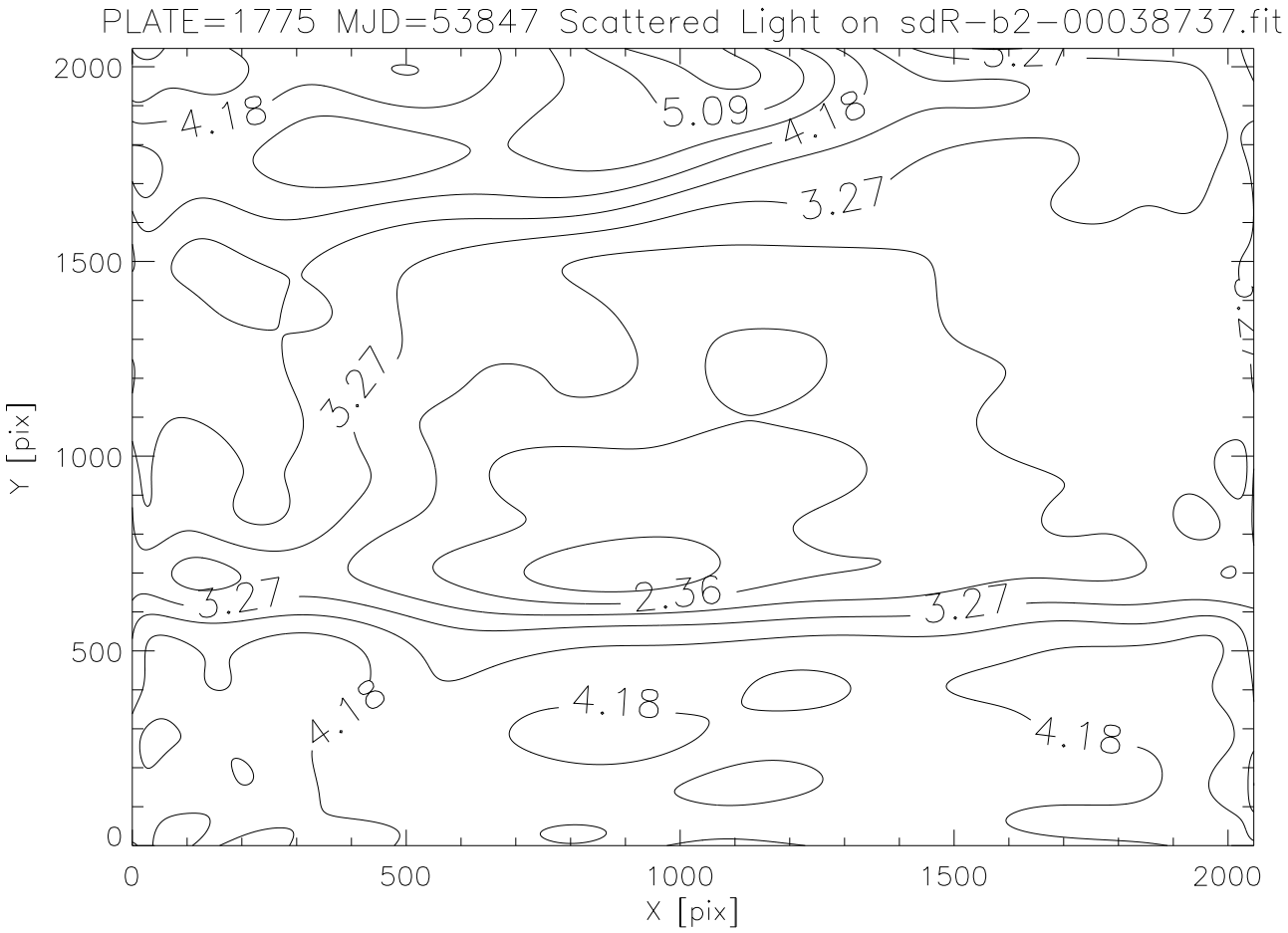

PLATE=1775 MJD=53847 sdR-b2-00038736.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 15.32%
Fiber number
Focal Distance [mm]
Airmass

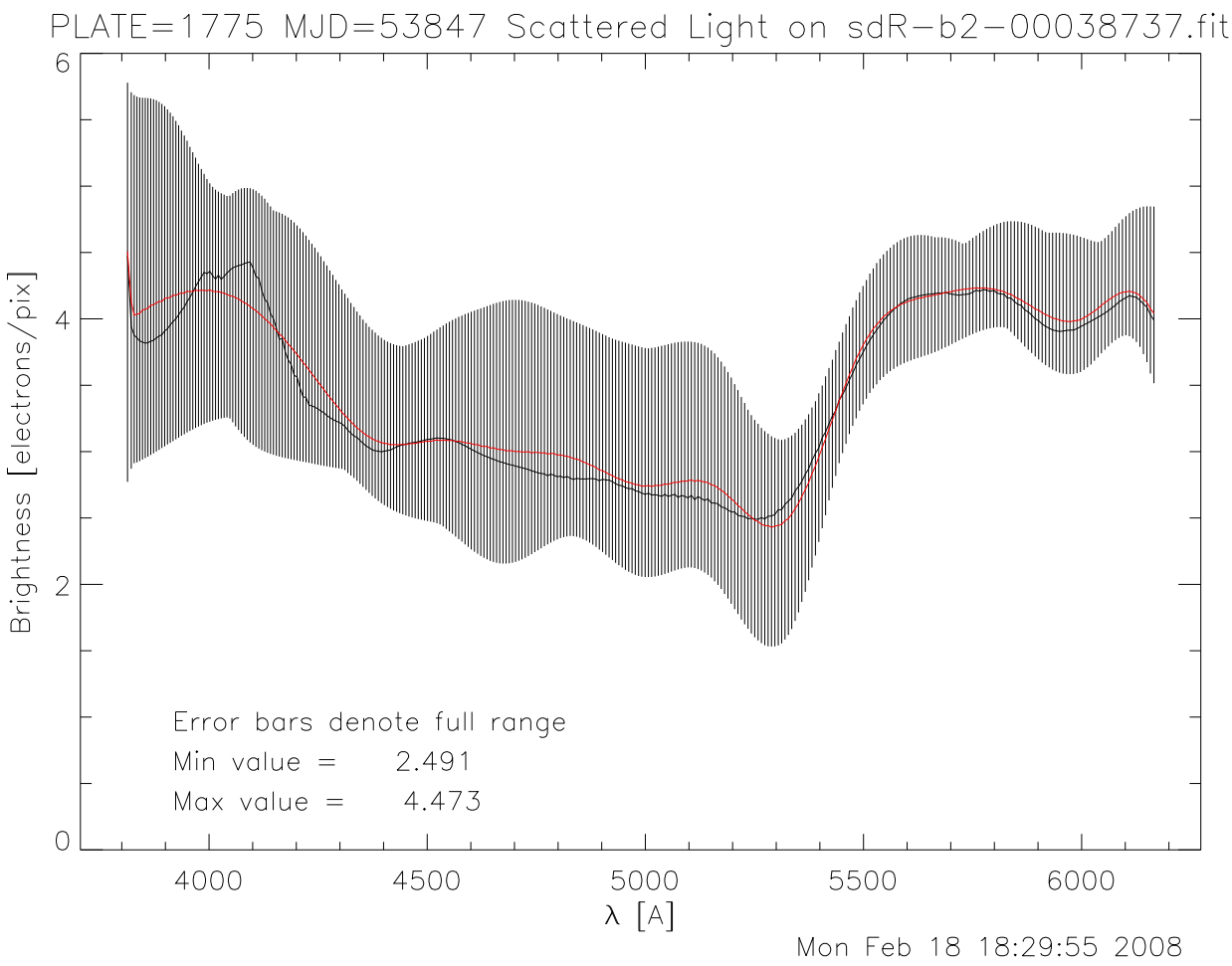

PLATE=1775 MJD=53847 sdR-b2-00038736.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.25 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

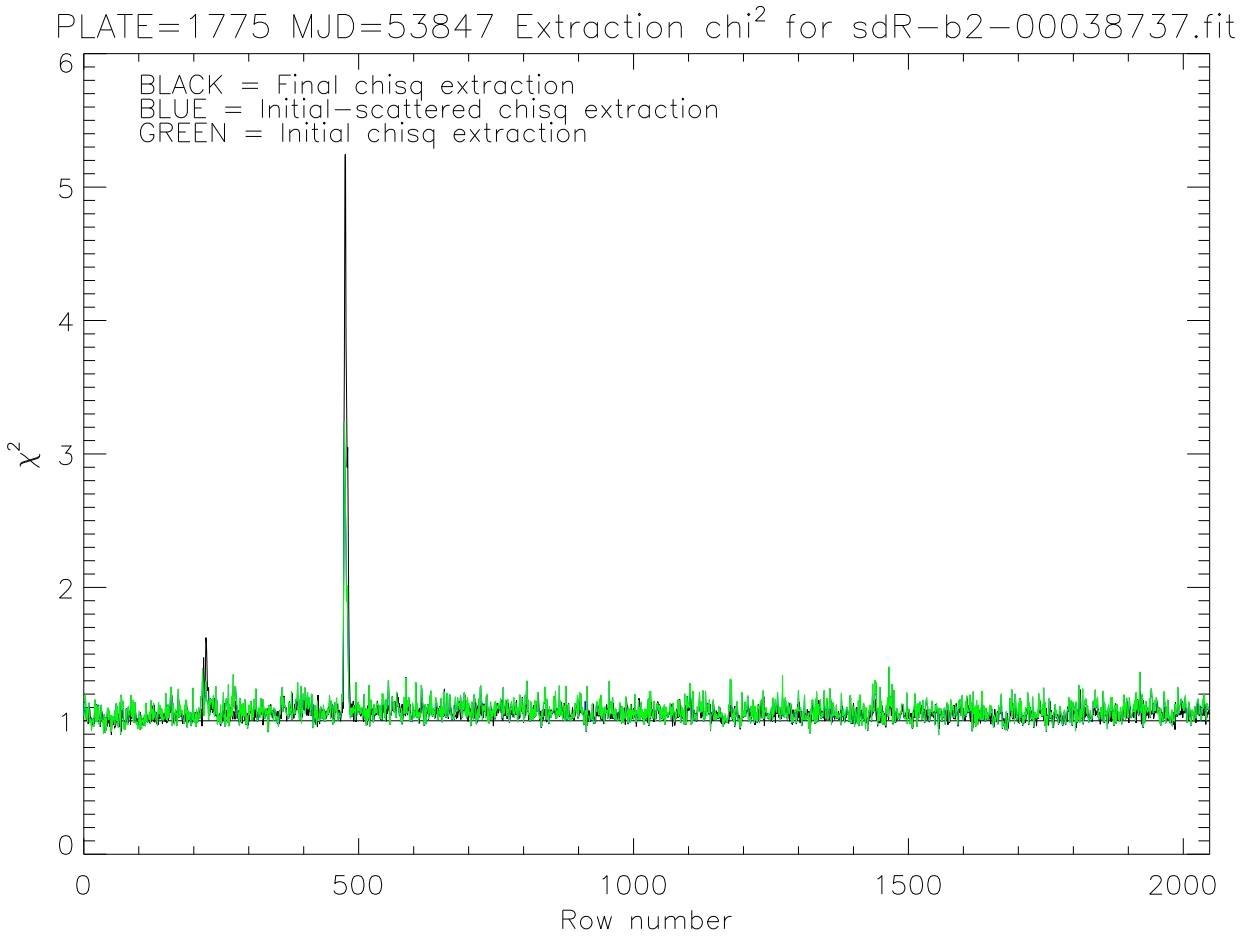

PLATE=1775 MJD=53847 Fiber-Flats for sdR-b2-00038733.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.513
Max value = 1.172
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 18 18:25:36 2008

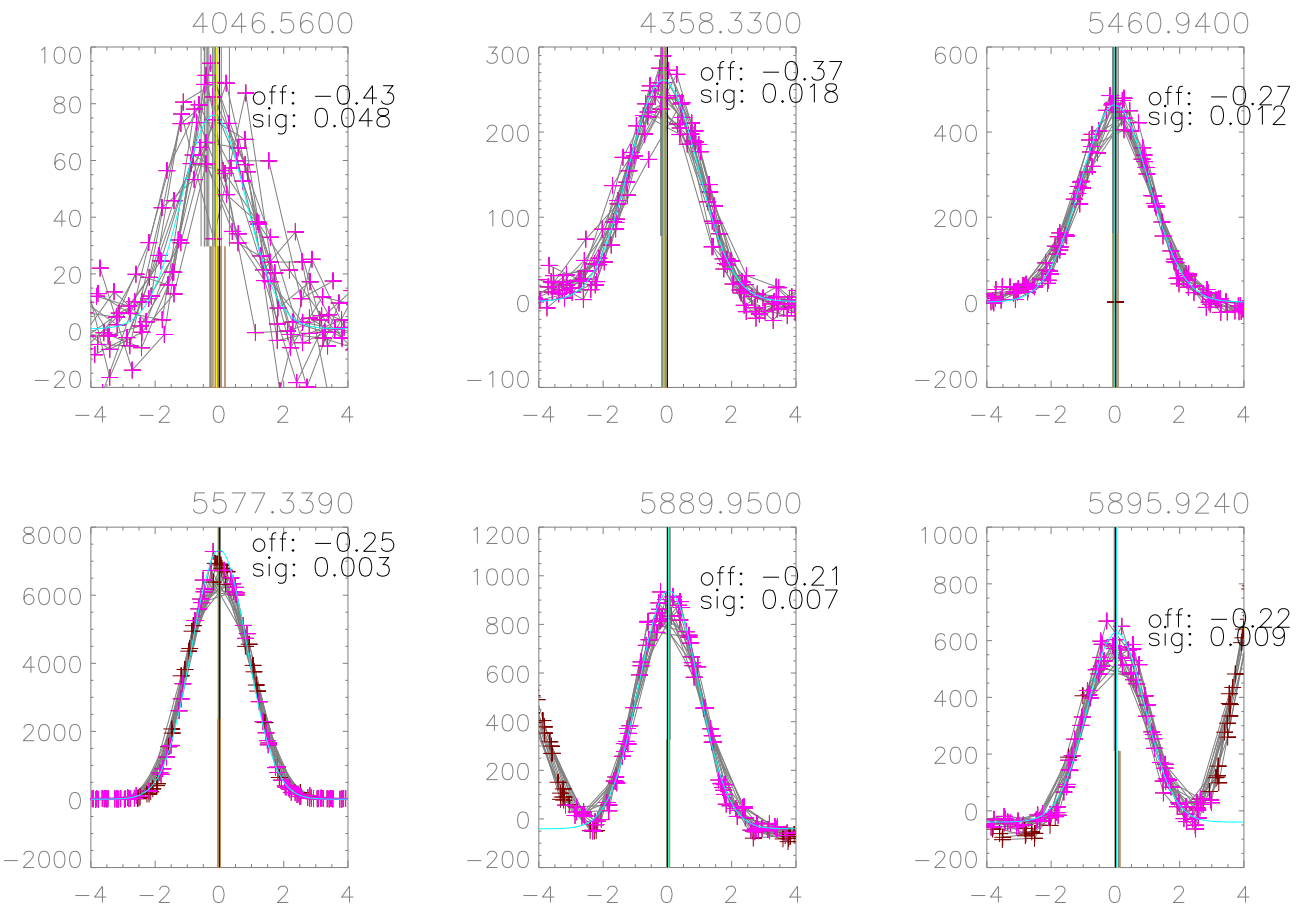

PLATE=1775 MJD=53847 Scattered Light before halo removal on sdR−b2−00038737.f
6.82
5.73
4.64
4.64
5.73
5.73
4.64
4.64
4.64
4.64
4.64
5.73
5.73
0
2000
1500
1000
500
0
0
500
1000
1500
2000
Y [pix]
X [pix]

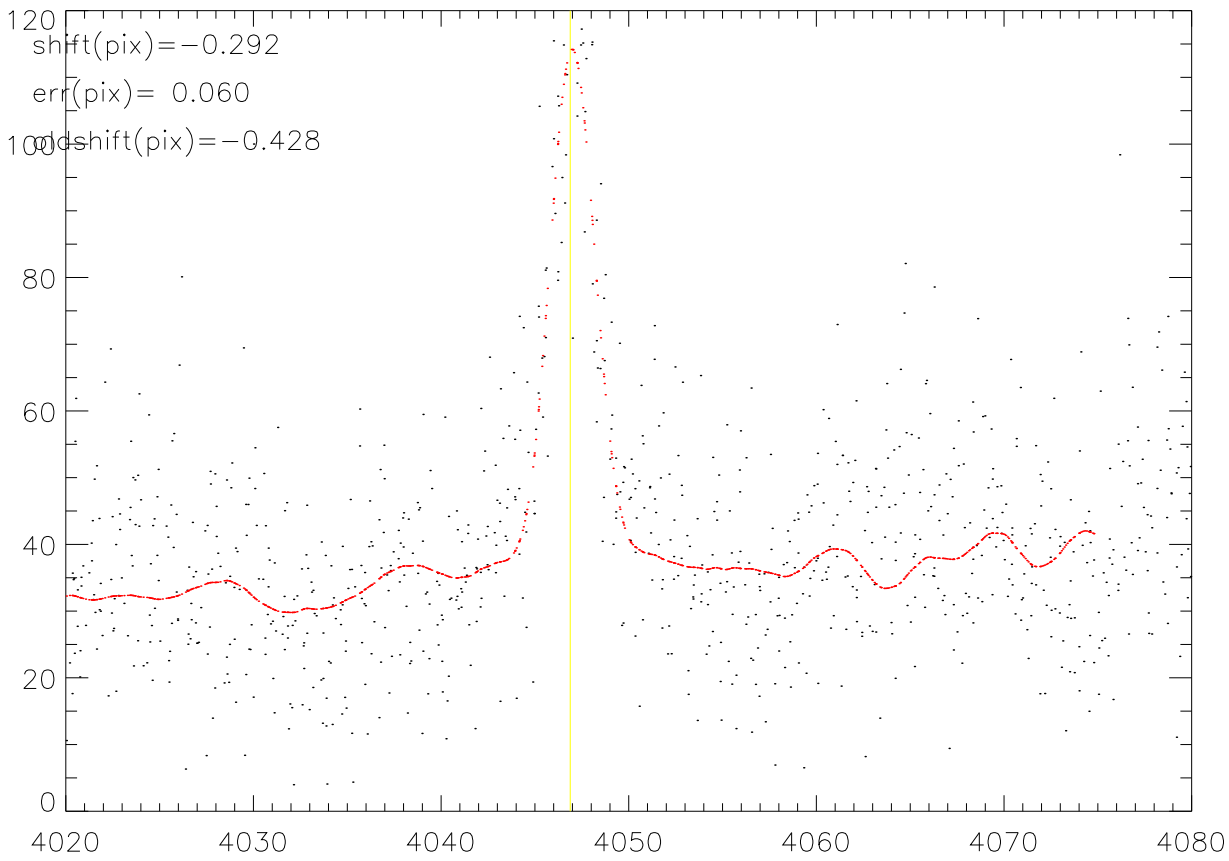

PLATE=1775 MJD=53847 Scattered Light before halo removal on sdR-b2-00038737.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.620
Max value = 7.116
Mon Feb 18 18:26:29 2008

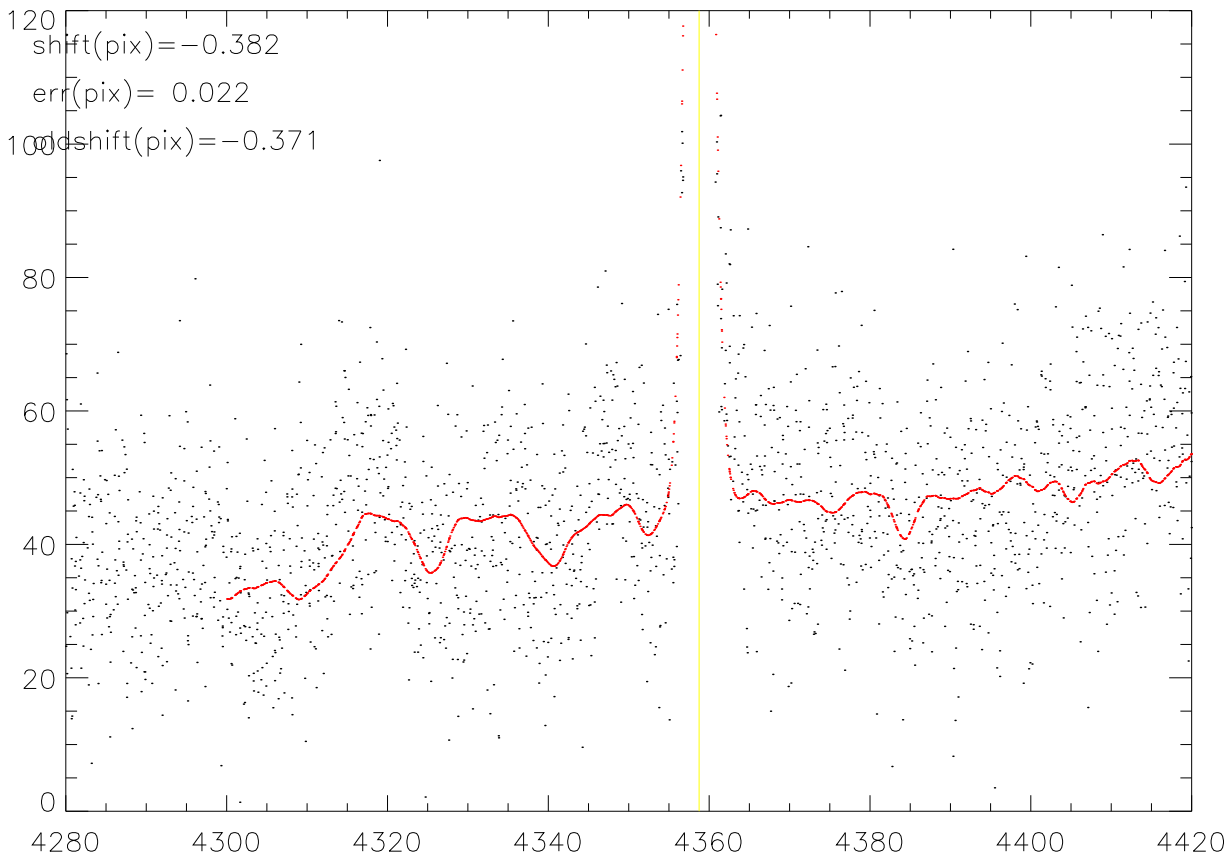

PLATE=1775 MJD=53847 Scattered Light on sdR-b2-00038737.fit
4.18
5.09
4.18
3.27
3.27
3.27
2.36
3.27
4.18
4.18
4.18
0
0
500
1000
1500
2000
Y [pix]
X [pix]

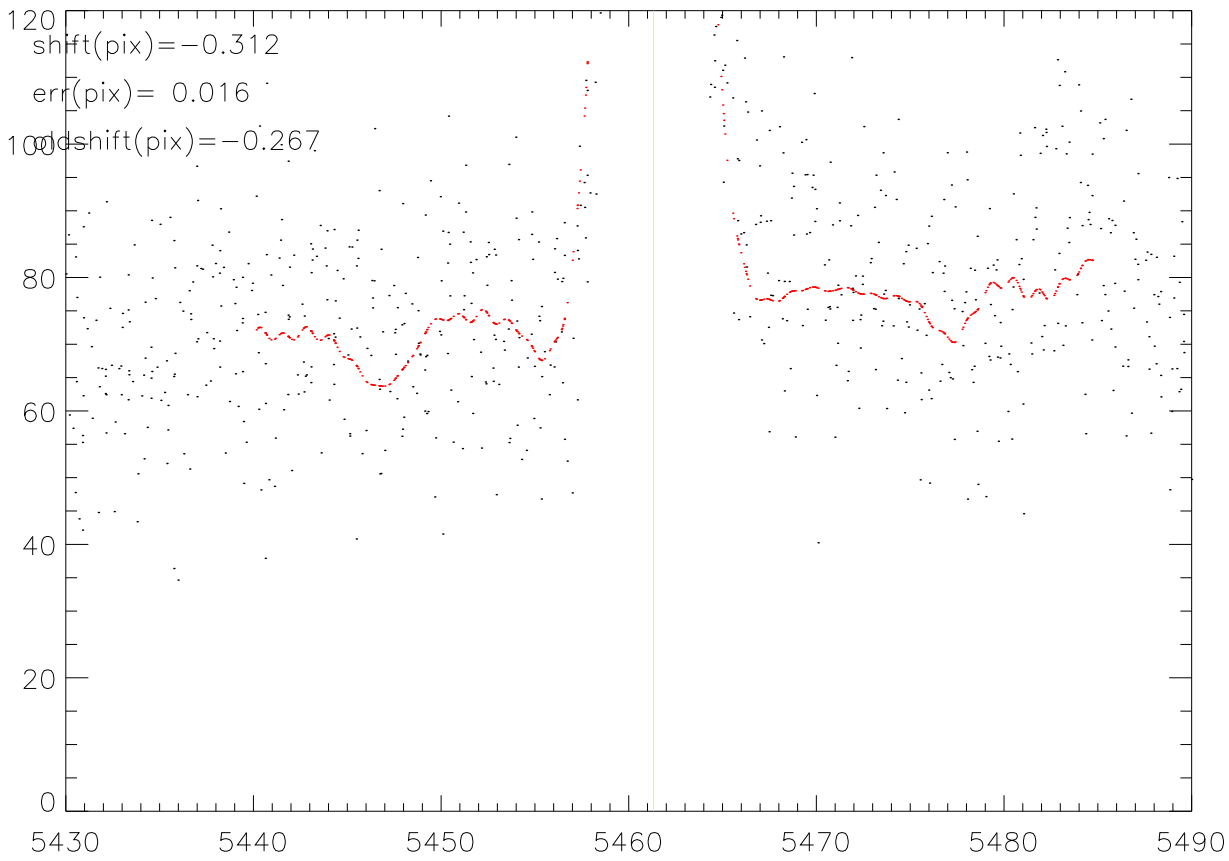

PLATE=1775 MJD=53847 Scattered Light on sdR-b2-00038737.fit
Brightness [electrons/pix]
0
2
4
6
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 2.491
Max value = 4.473
Mon Feb 18 18:29:55 2008

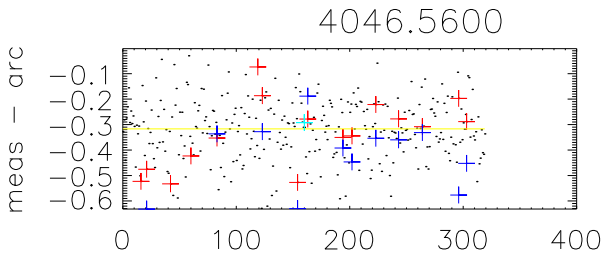

PLATE=1775 MJD=53847 Extraction chi^2 for sdR-b2-00038737.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

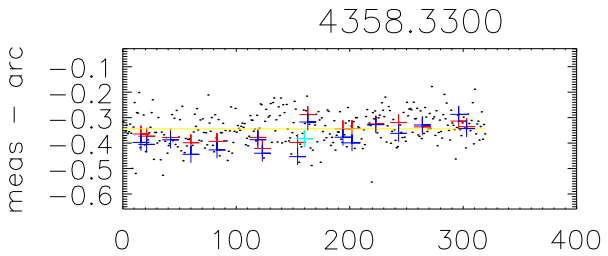

4046.5600
off: −0.43
sig: 0.048
4358.3300
off: −0.37
sig: 0.018
5460.9400
off: −0.27
sig: 0.012
5577.3390
off: −0.25
sig: 0.003
5889.9500
off: −0.21
sig: 0.007
5895.9240
off: −0.22
sig: 0.009

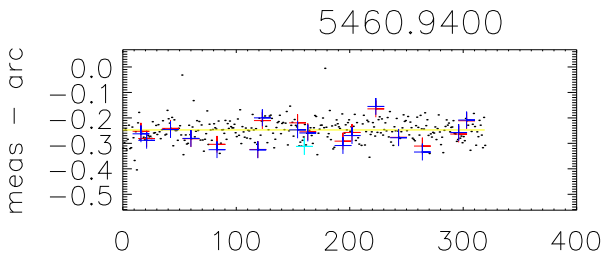

shift(pix)=−0.292
err(pix)= 0.060
oldshift(pix)=−0.428
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

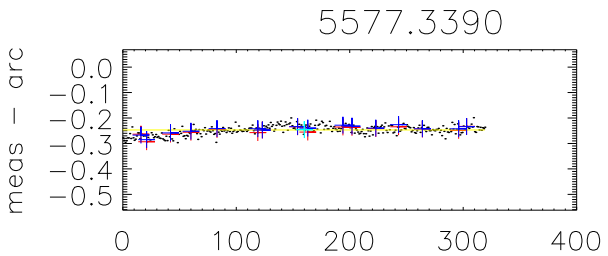

shift(pix)=−0.382
err(pix)= 0.022
oldshift(pix)=−0.371
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

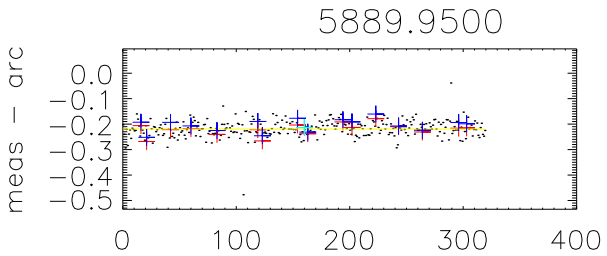

shift(pix)=−0.312
err(pix)= 0.016
oldshift(pix)=−0.267
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

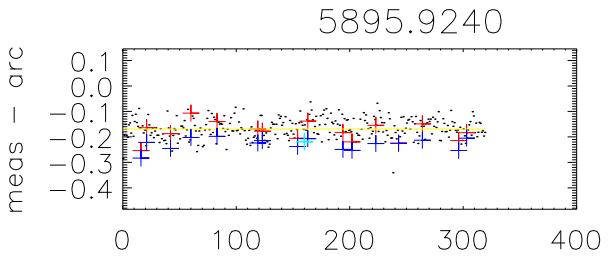

4046.5600
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

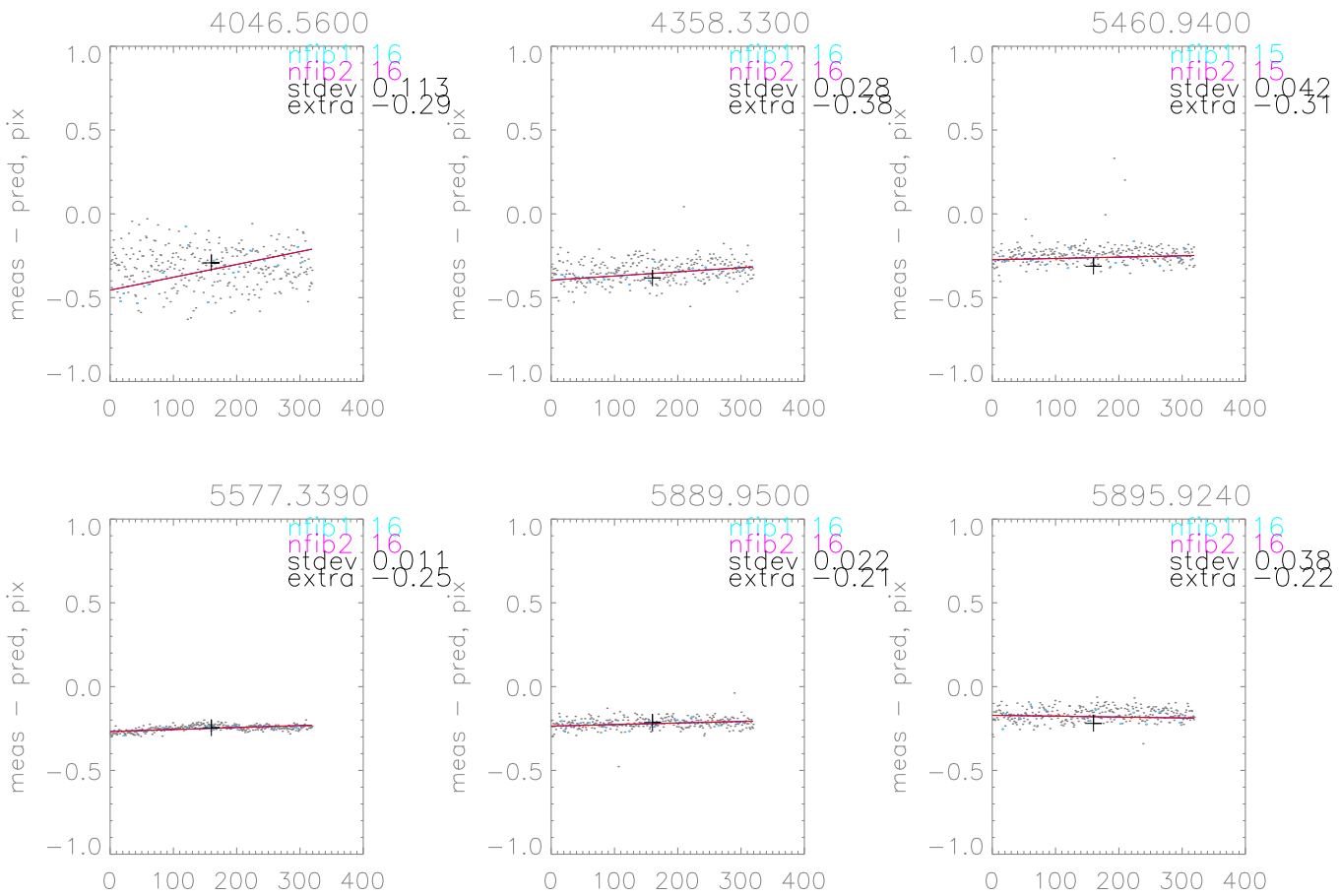

4358.3300
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

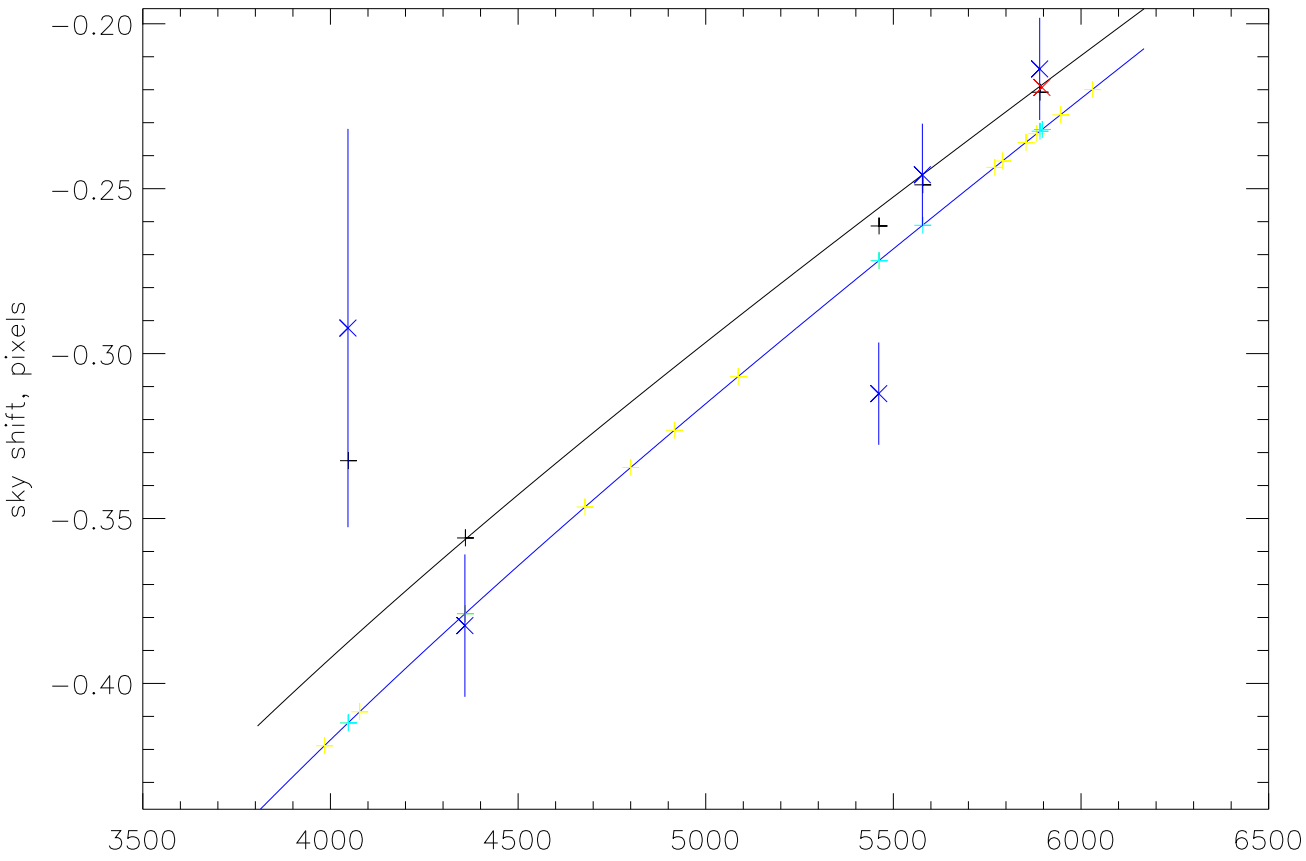

5460.9400
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

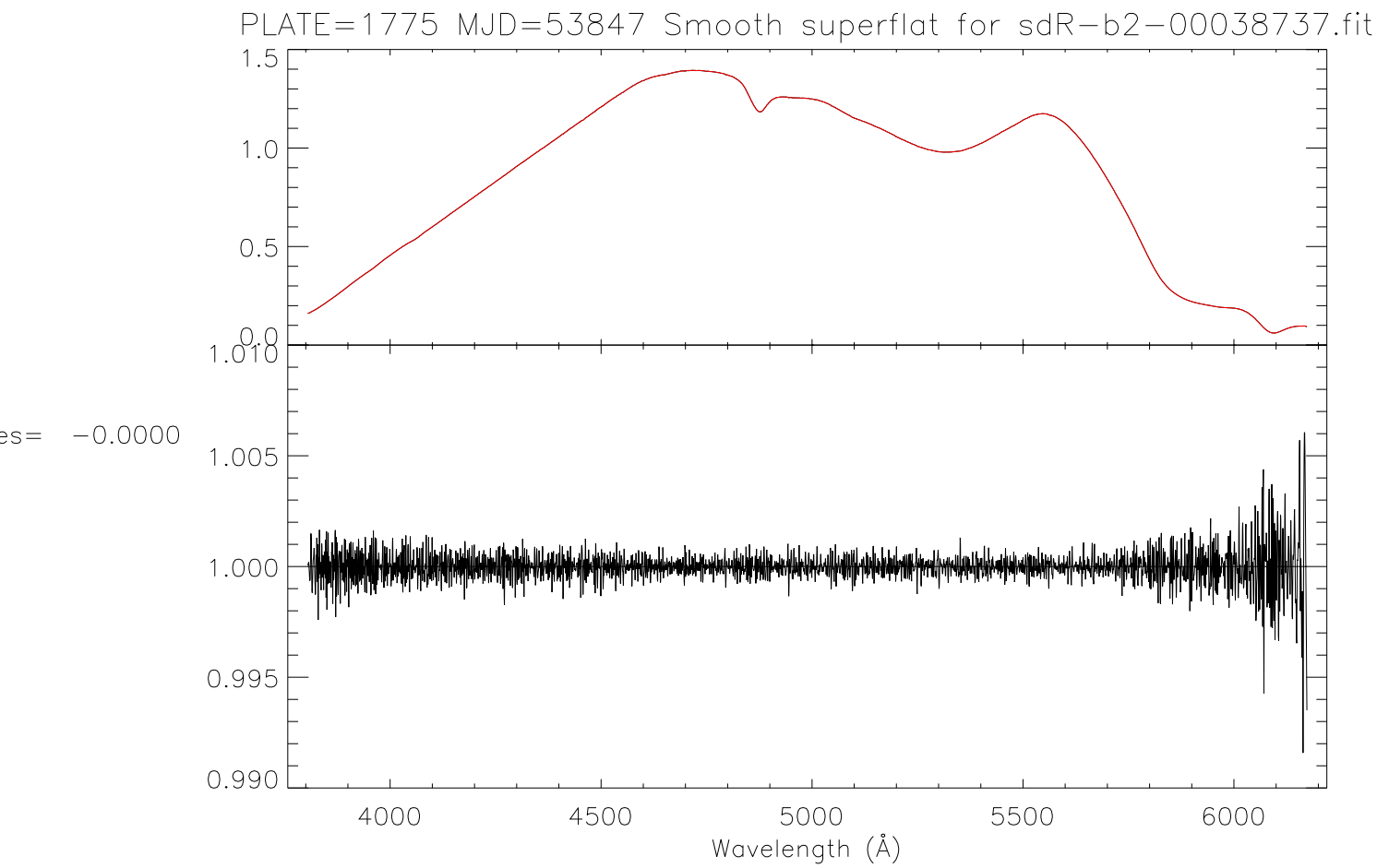

5577.3390
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400


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

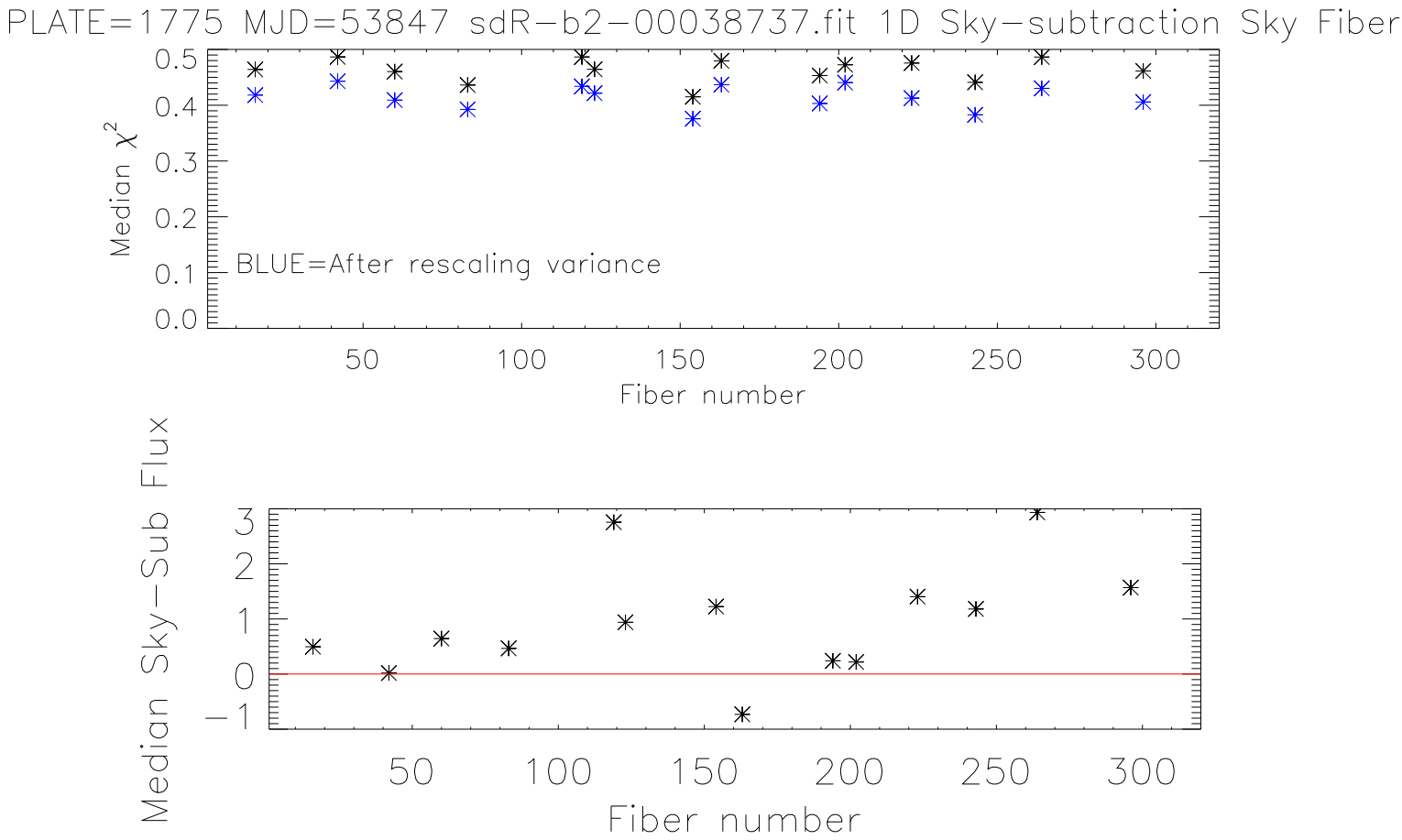

5895.9240
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

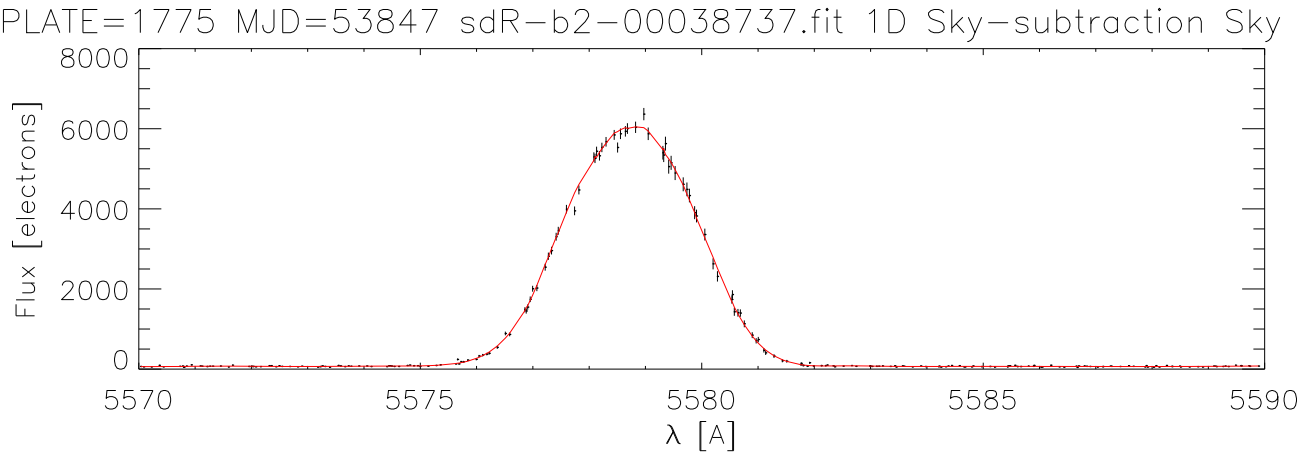

4046.5600
nfib1 16
nfib2 16
stdev 0.113
extra −0.29
4358.3300
nfib1 16
nfib2 16
stdev 0.028
extra −0.38
5460.9400
nfib1 15
nfib2 15
stdev 0.042
extra −0.31
5577.3390
nfib1 16
nfib2 16
stdev 0.011
extra −0.25
5889.9500
nfib1 16
nfib2 16
stdev 0.022
extra −0.21
5895.9240
nfib1 16
nfib2 16
stdev 0.038
extra −0.22
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

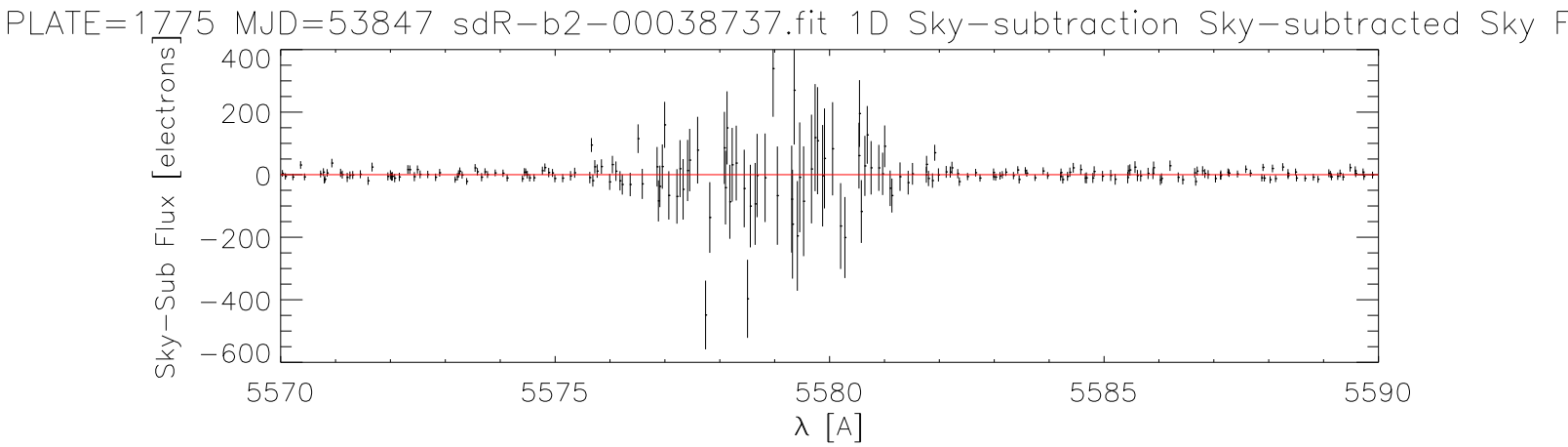

−0.20
−0.25
−0.30
−0.35
−0.40
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

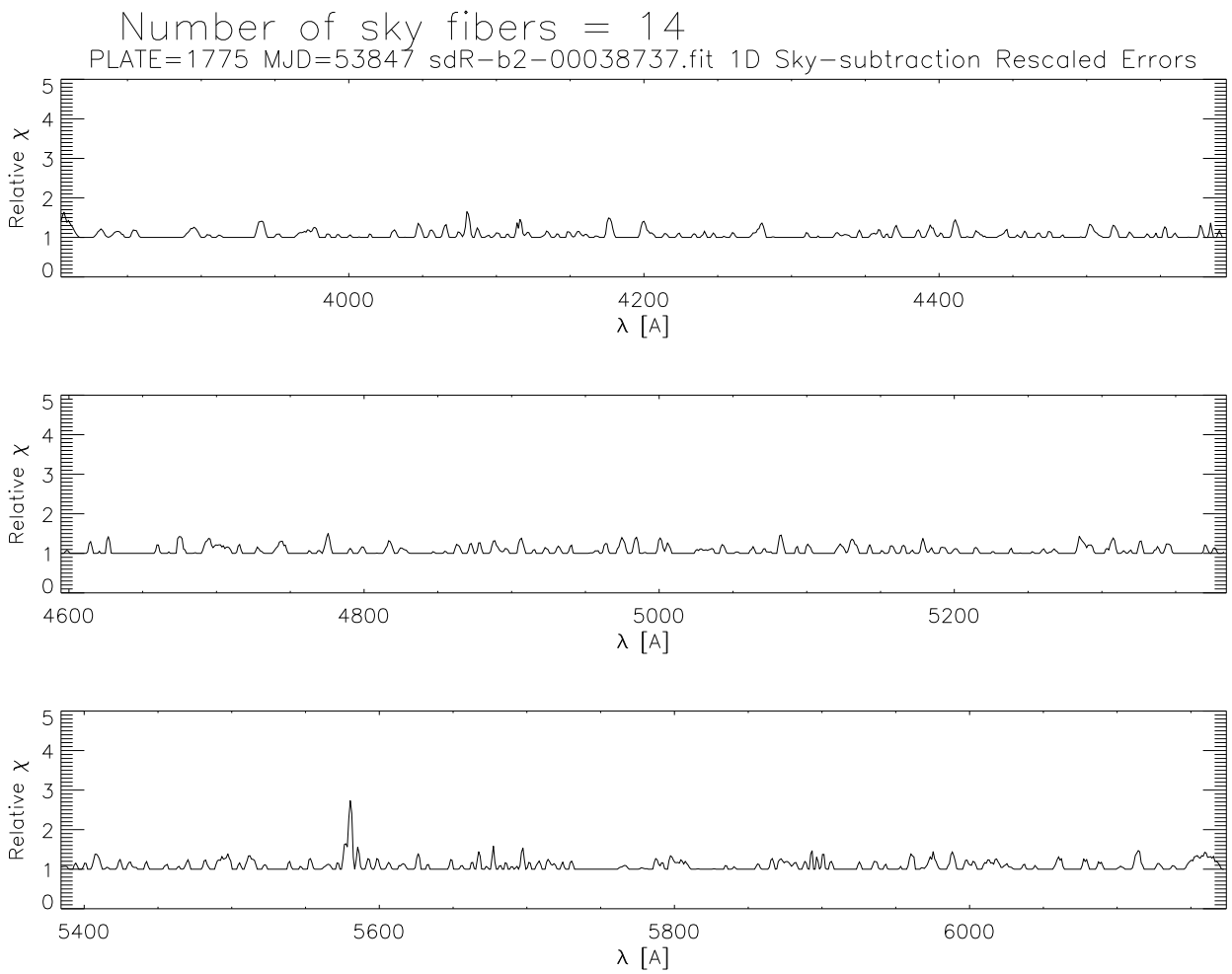

PLATE=1775 MJD=53847 Smooth superflat for sdR-b2-00038737.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

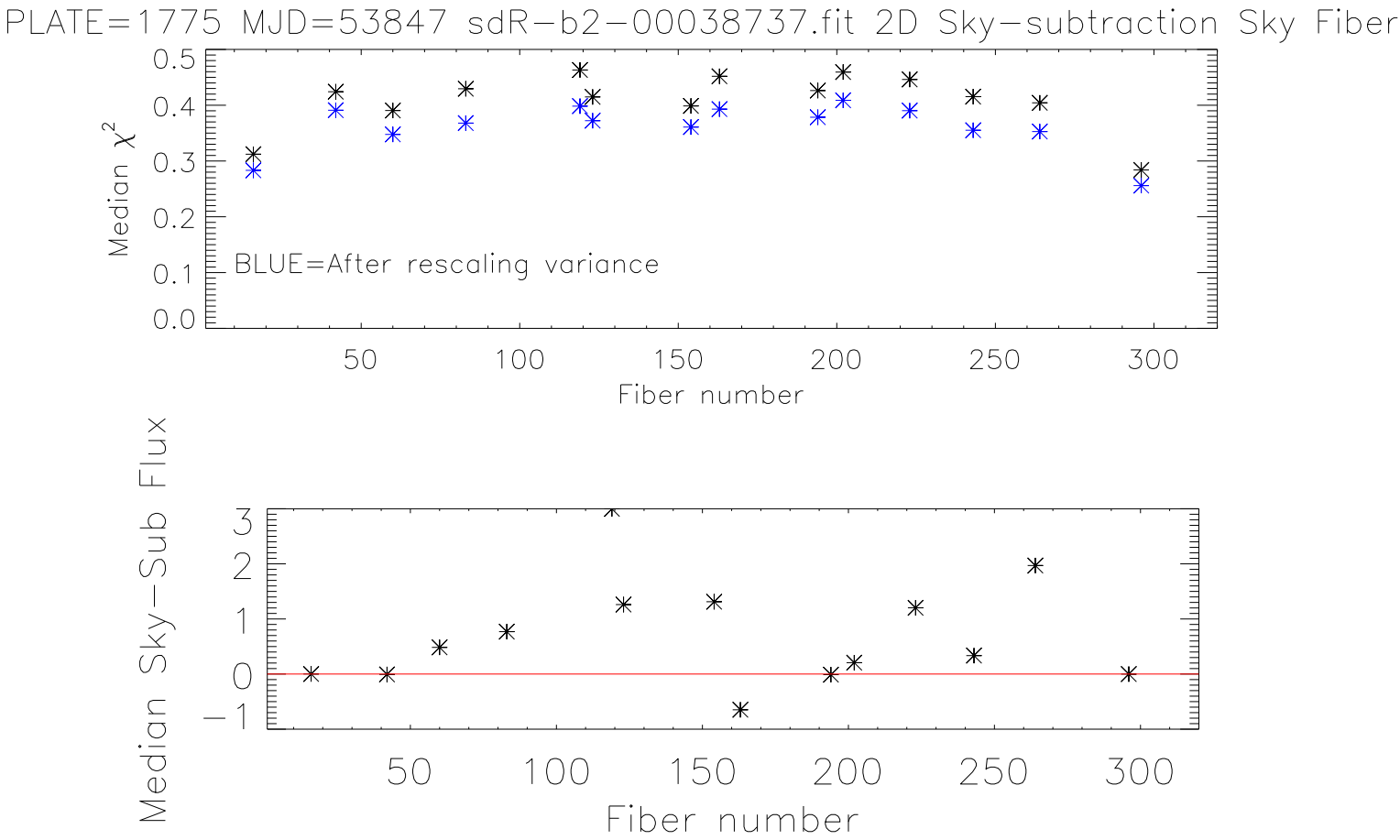
es= −0.0000

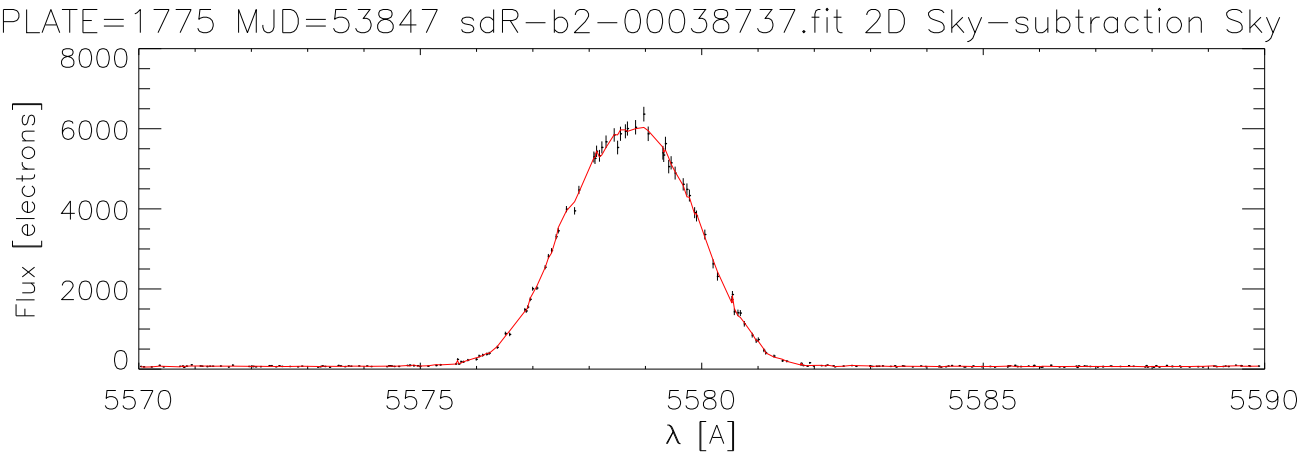

PLATE=1775 MJD=53847 sdR-b2-00038737.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
−1
0
1
2
3
50
100
150
200
250
300
Fiber number

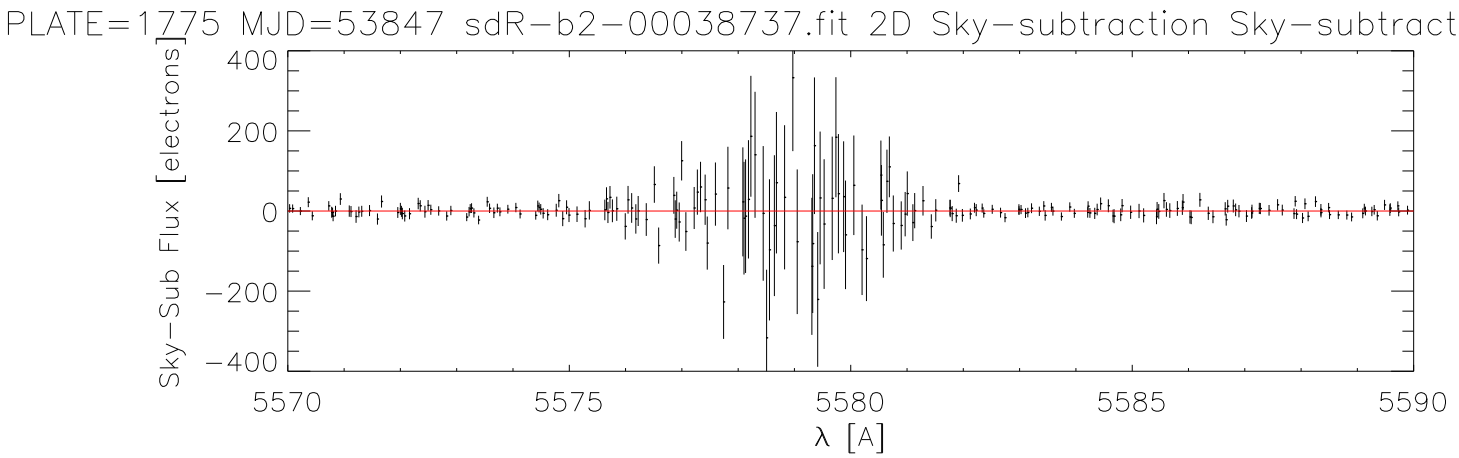

PLATE=1775 MJD=53847 sdR-b2-00038737.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

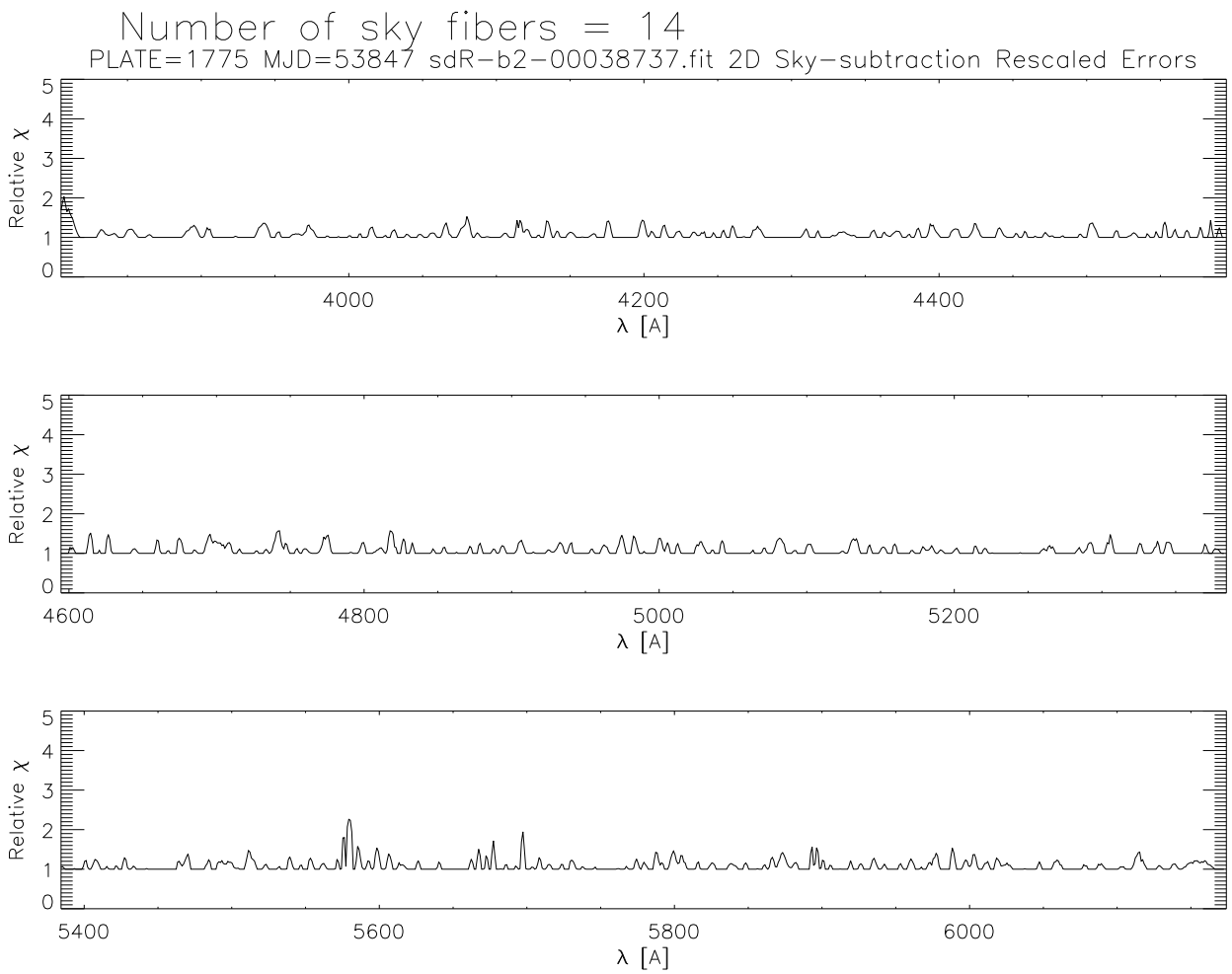

PLATE=1775 MJD=53847 sdR-b2-00038737.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

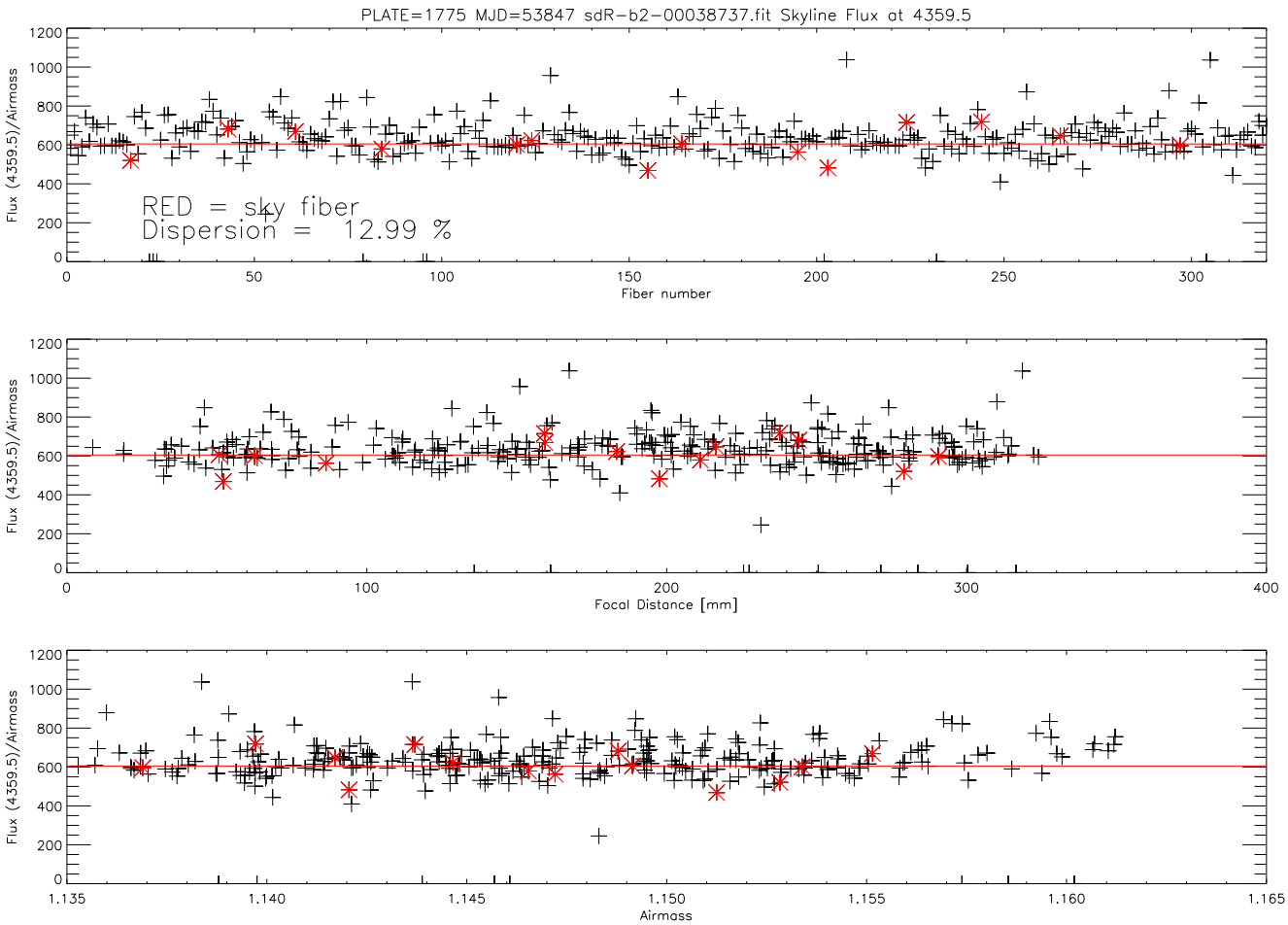

Number of sky fibers = 14
PLATE=1775 MJD=53847 sdR-b2-00038737.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

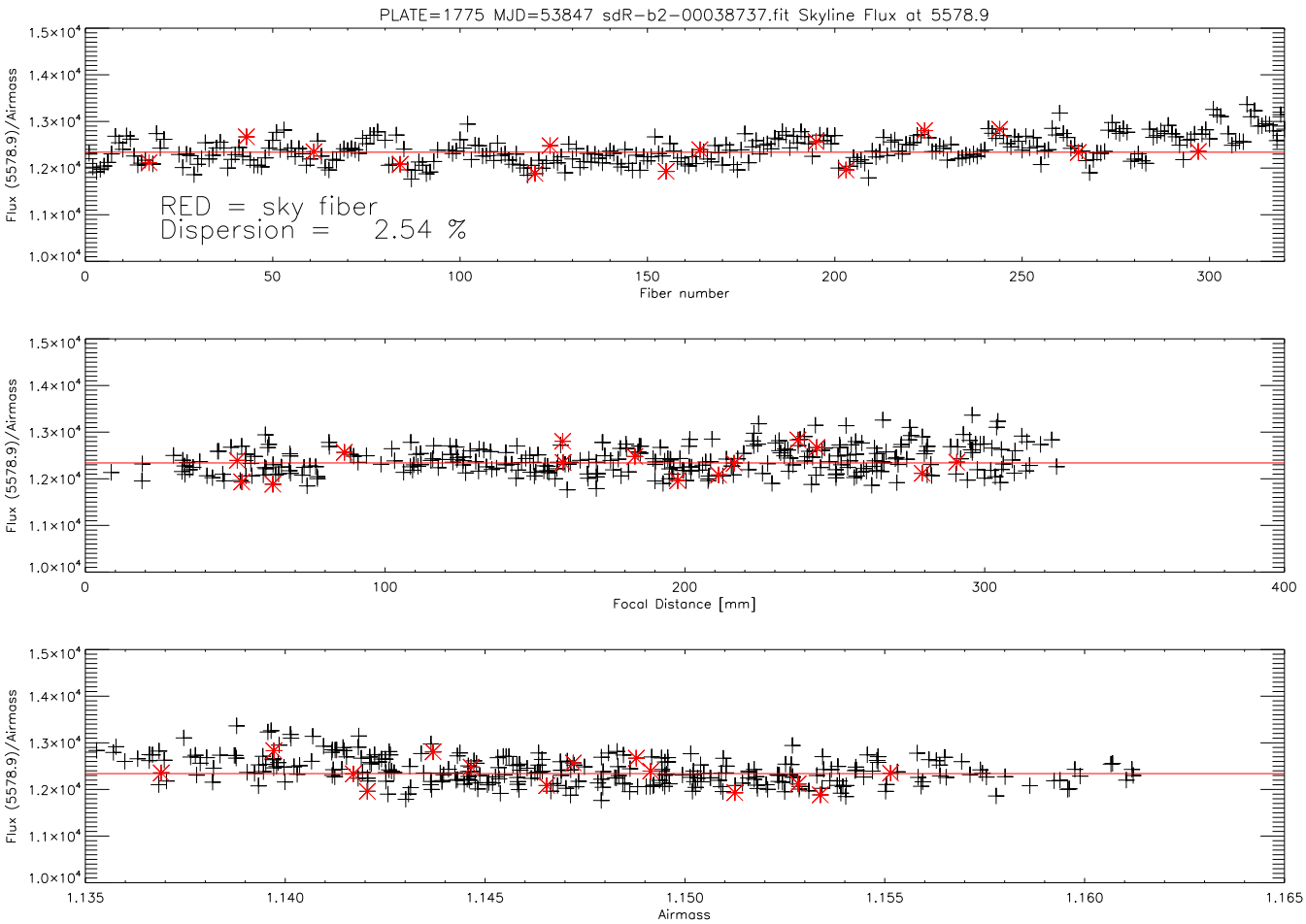

PLATE=1775 MJD=53847 sdR-b2-00038737.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

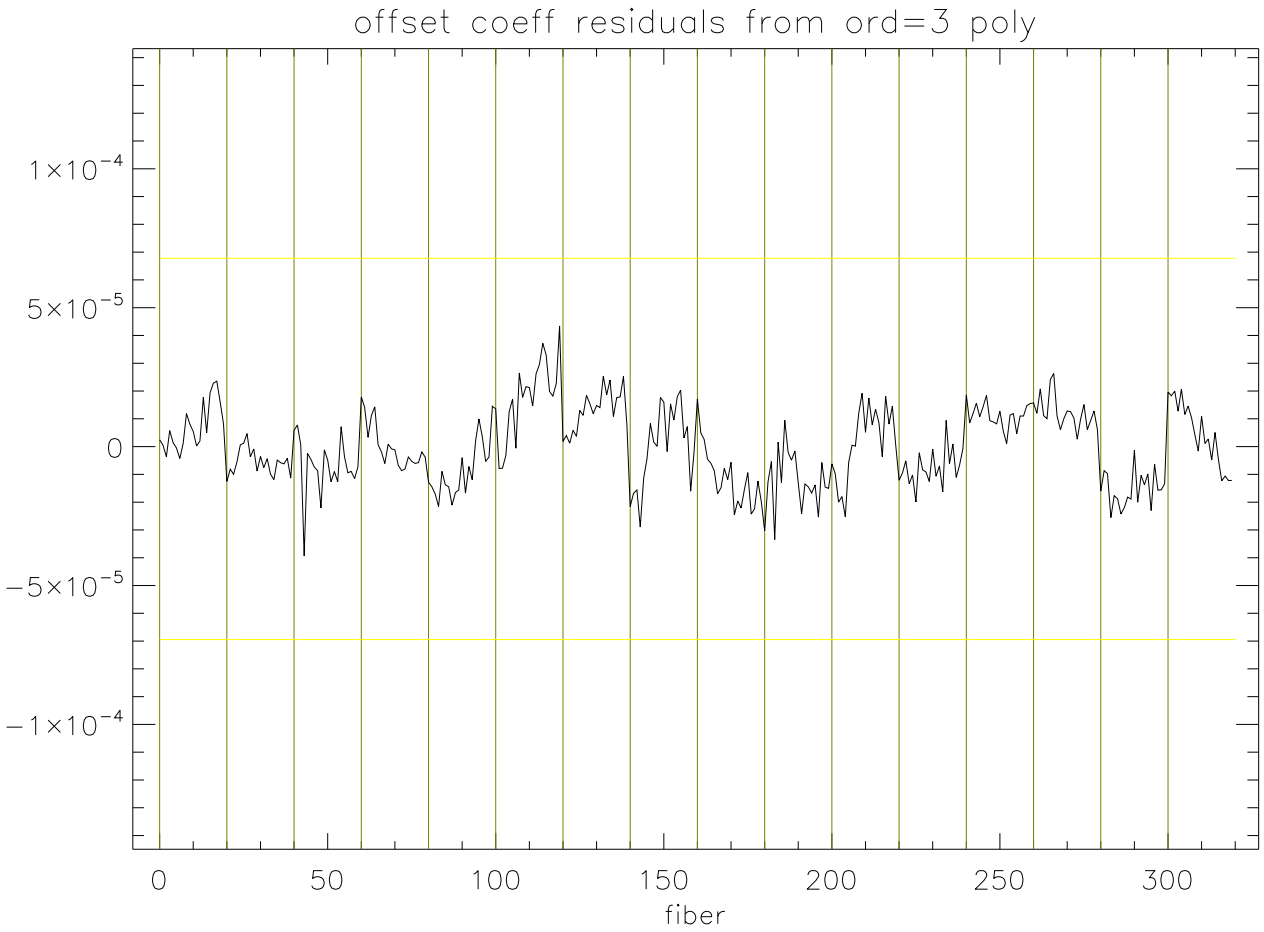

PLATE=1775 MJD=53847 sdR-b2-00038737.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

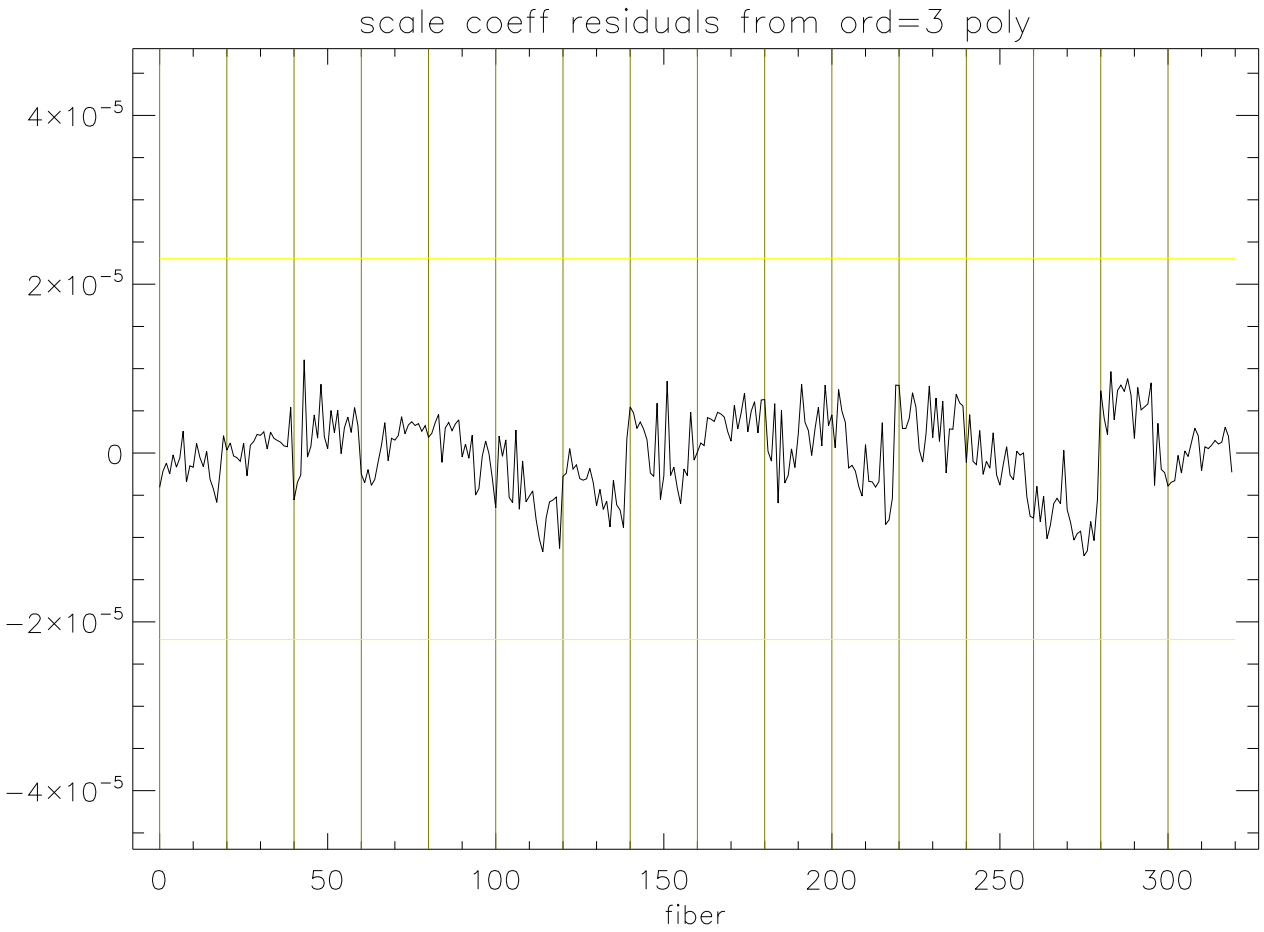

PLATE=1775 MJD=53847 sdR-b2-00038737.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

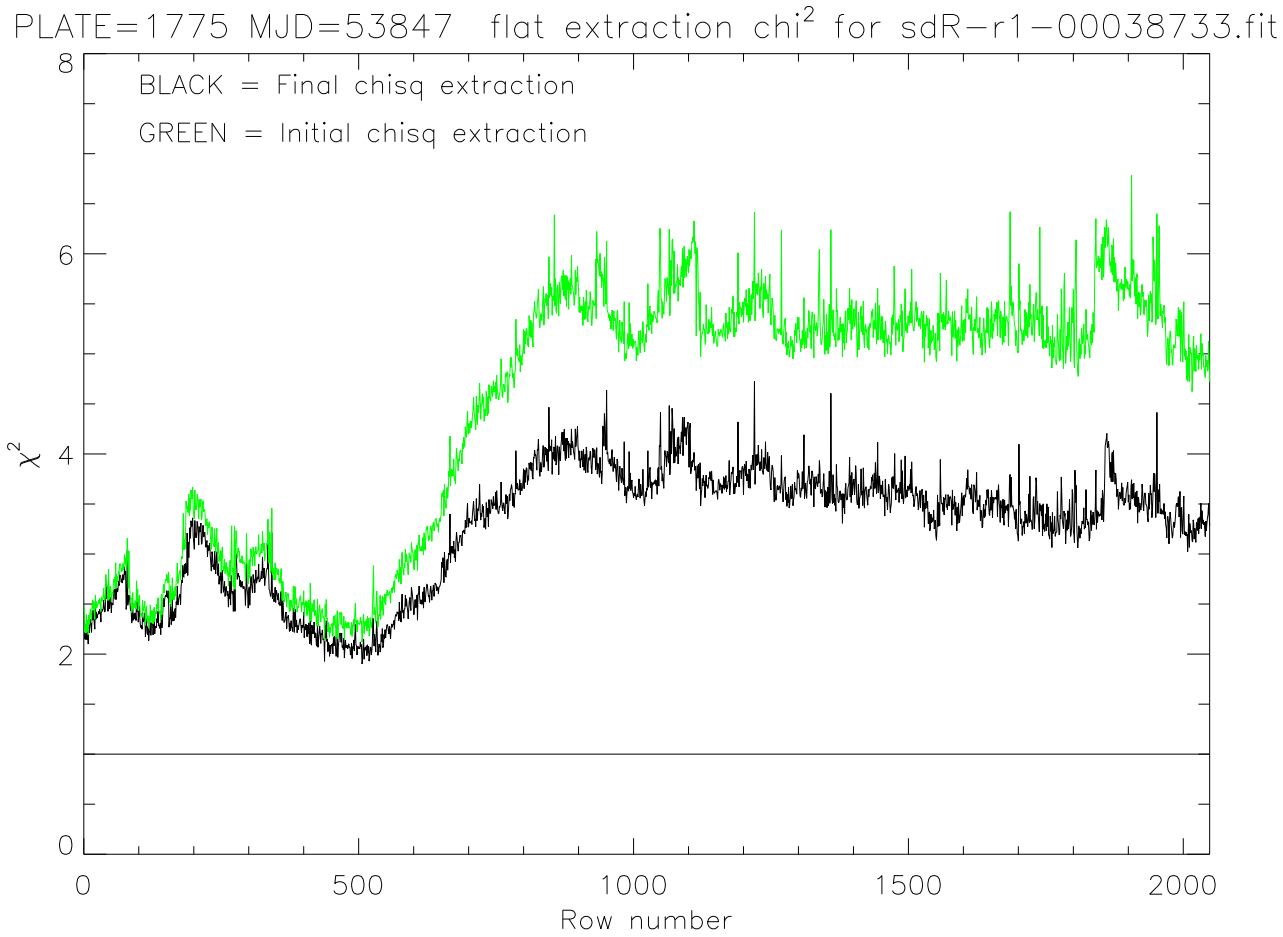

Number of sky fibers = 14
PLATE=1775 MJD=53847 sdR-b2-00038737.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

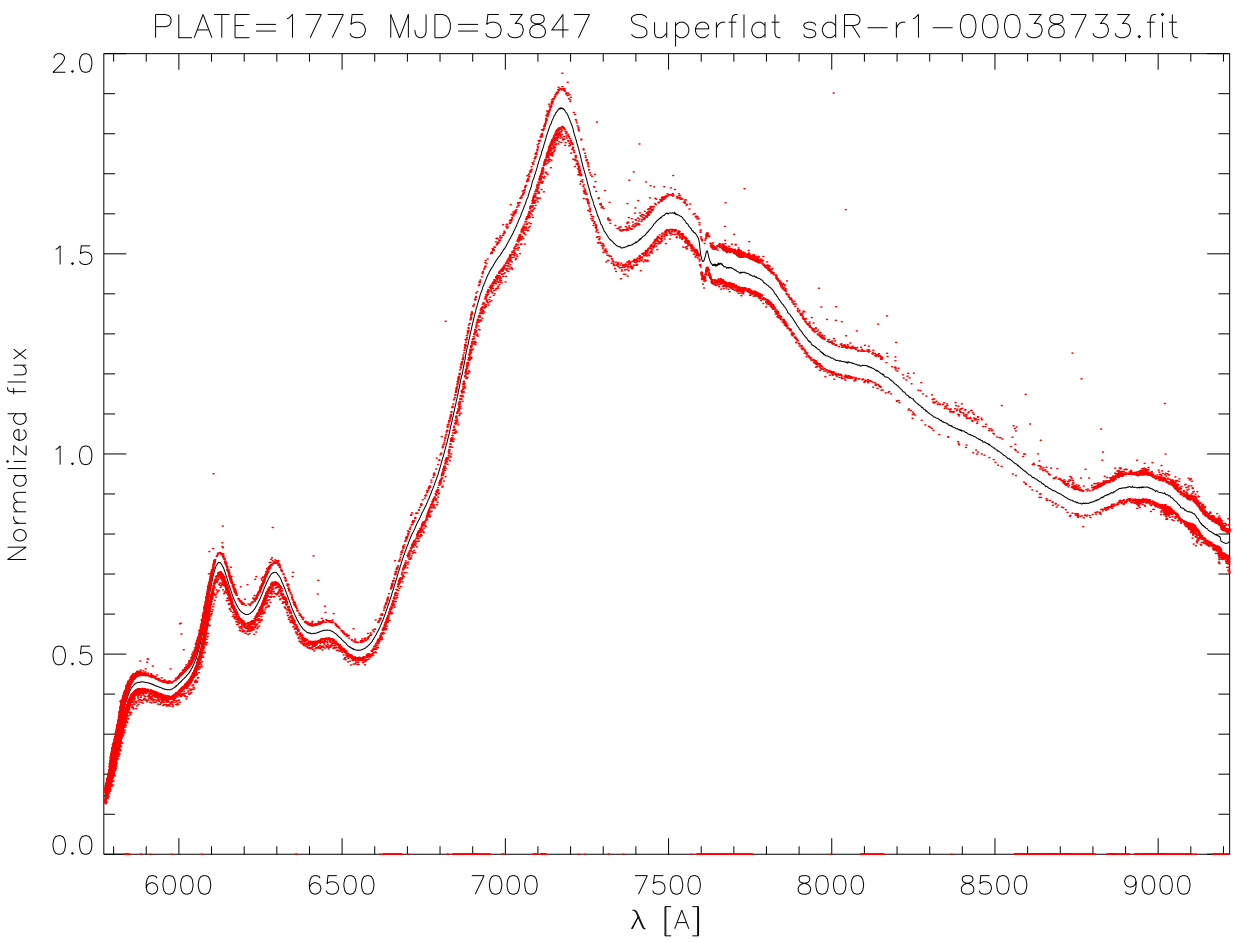

PLATE=1775 MJD=53847 sdR-b2-00038737.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 12.99 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

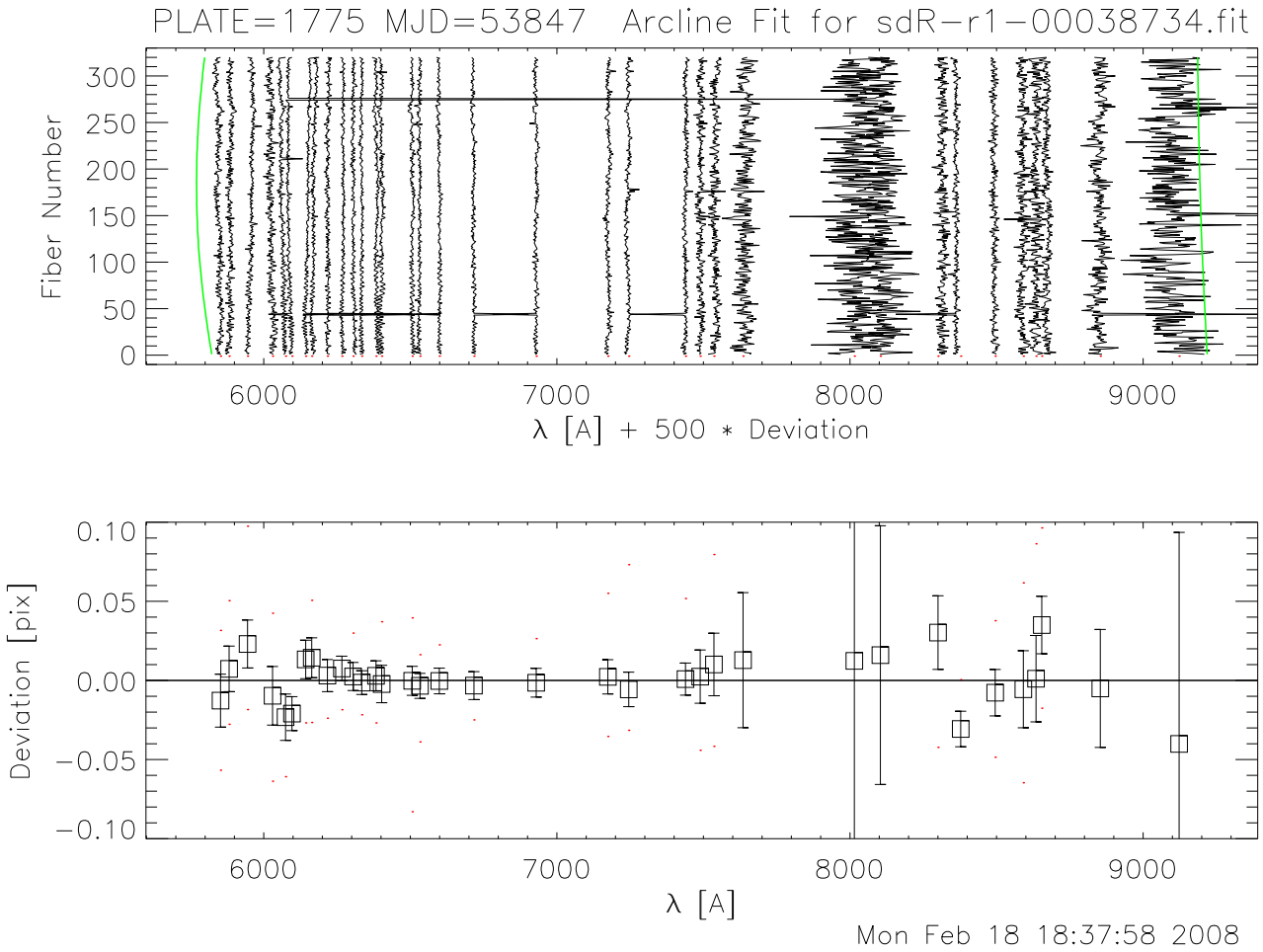

PLATE=1775 MJD=53847 sdR-b2-00038737.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.54 %
Fiber number
Focal Distance [mm]
Airmass

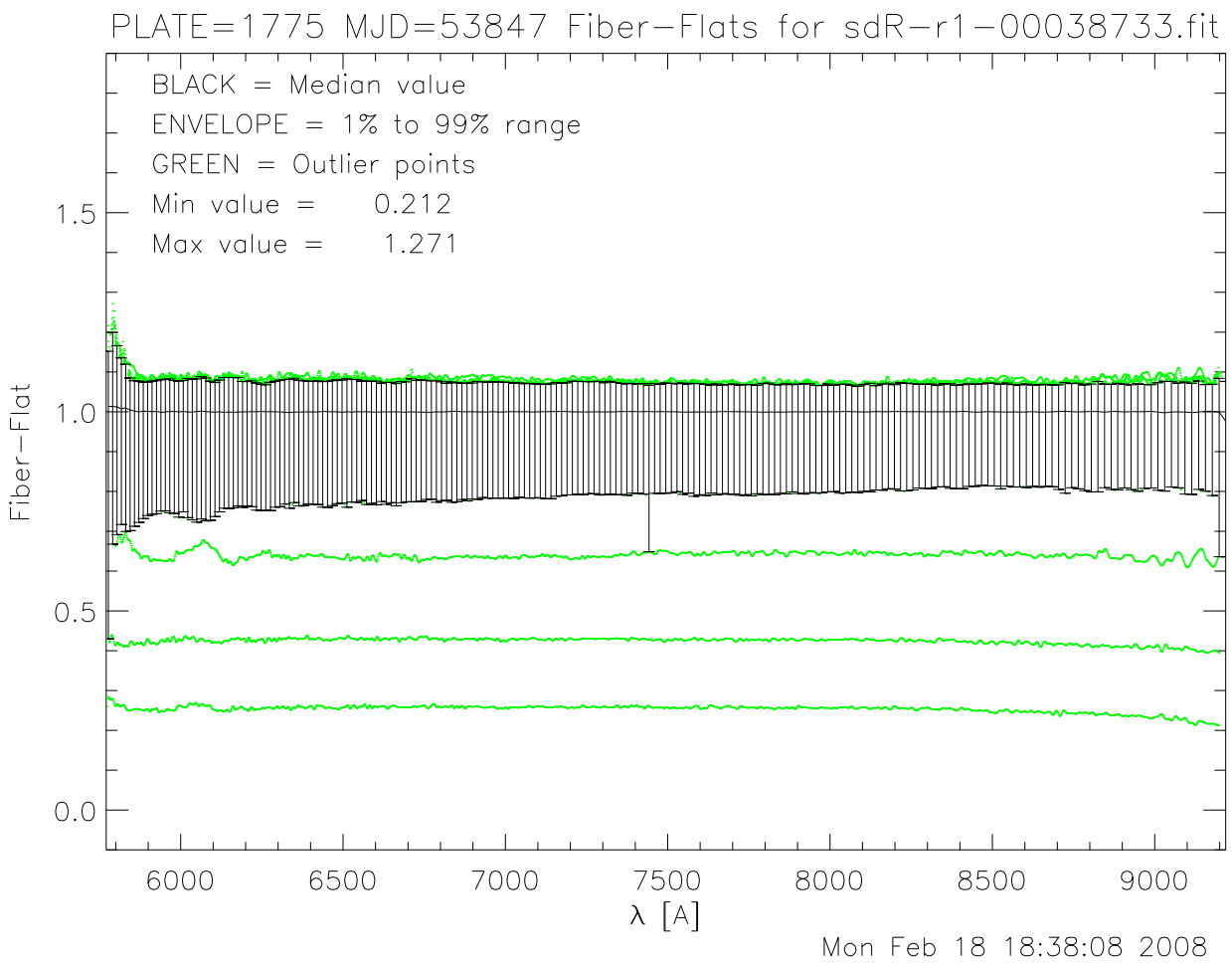

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

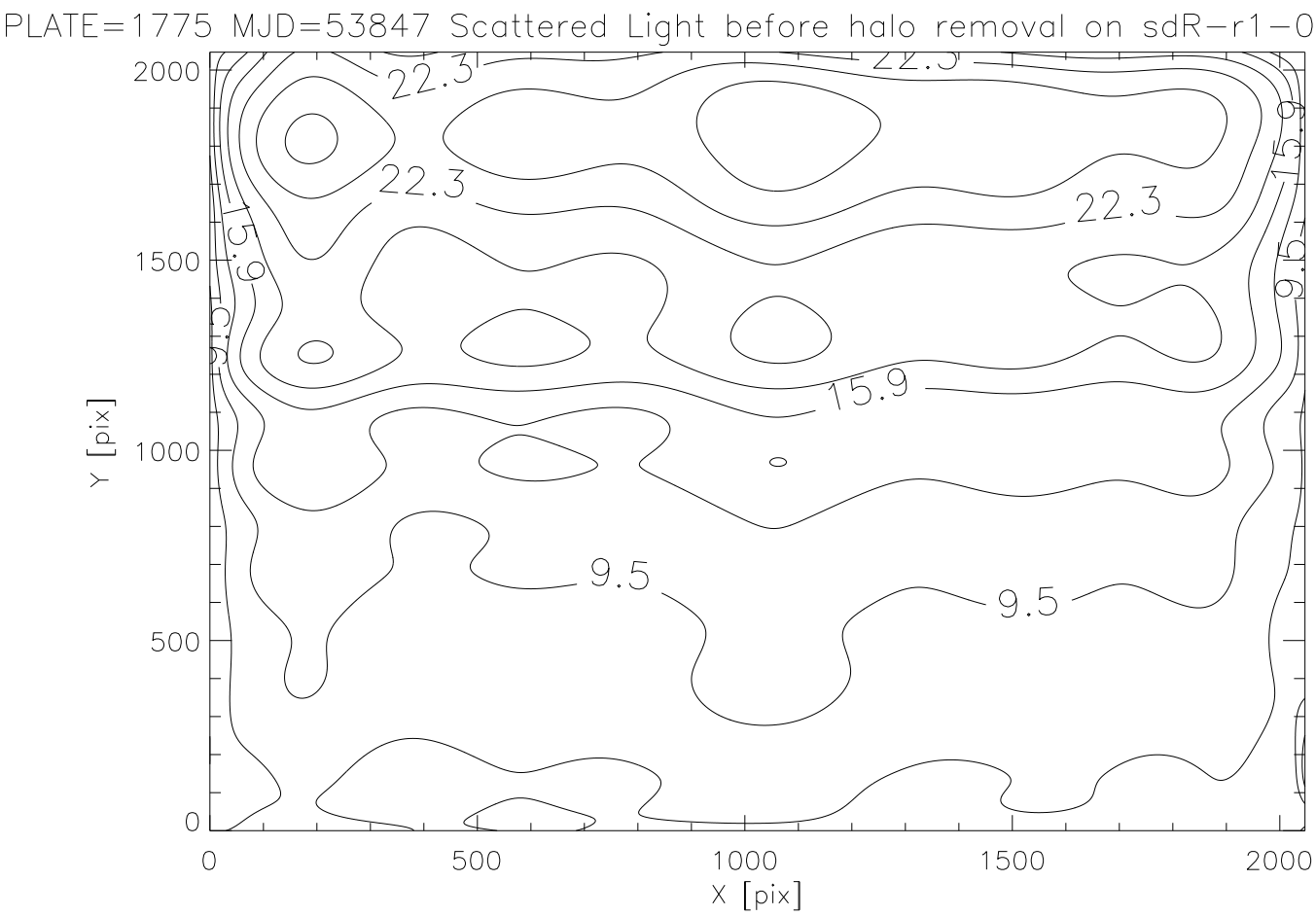

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

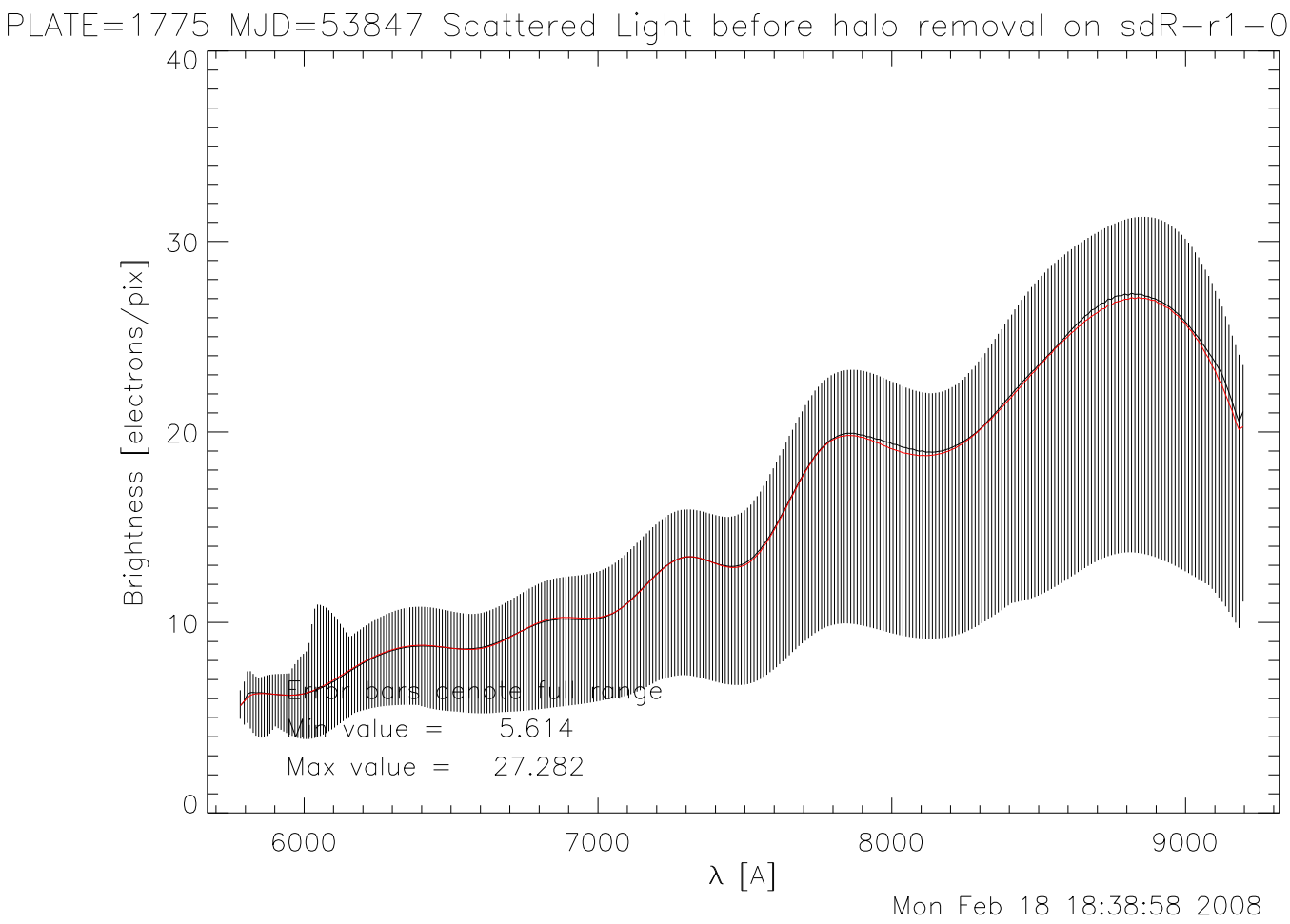

PLATE=1775 MJD=53847 flat extraction chi^2 for sdR−r1−00038733.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

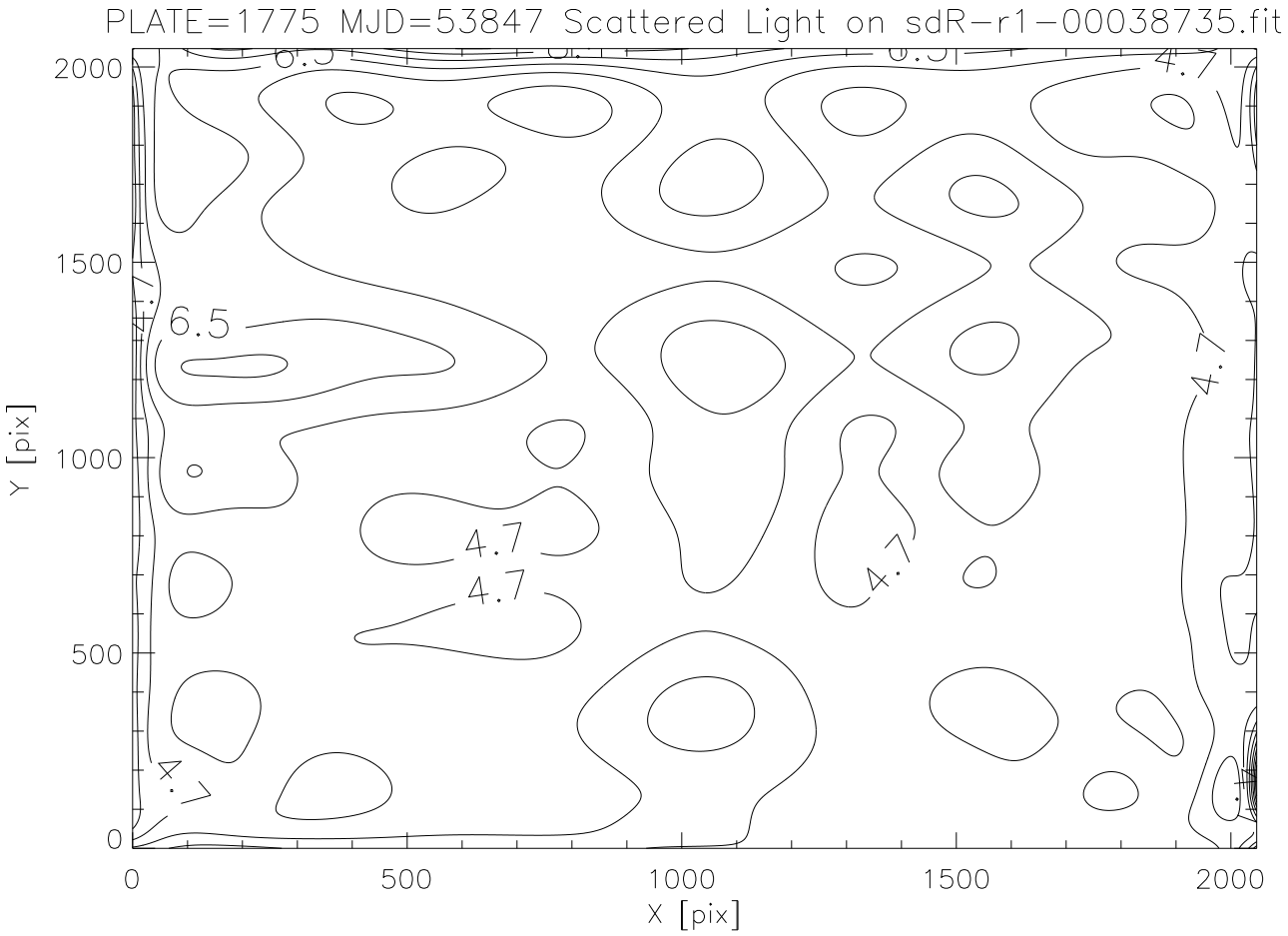

PLATE=1775 MJD=53847 Superflat sdR-r1-00038733.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

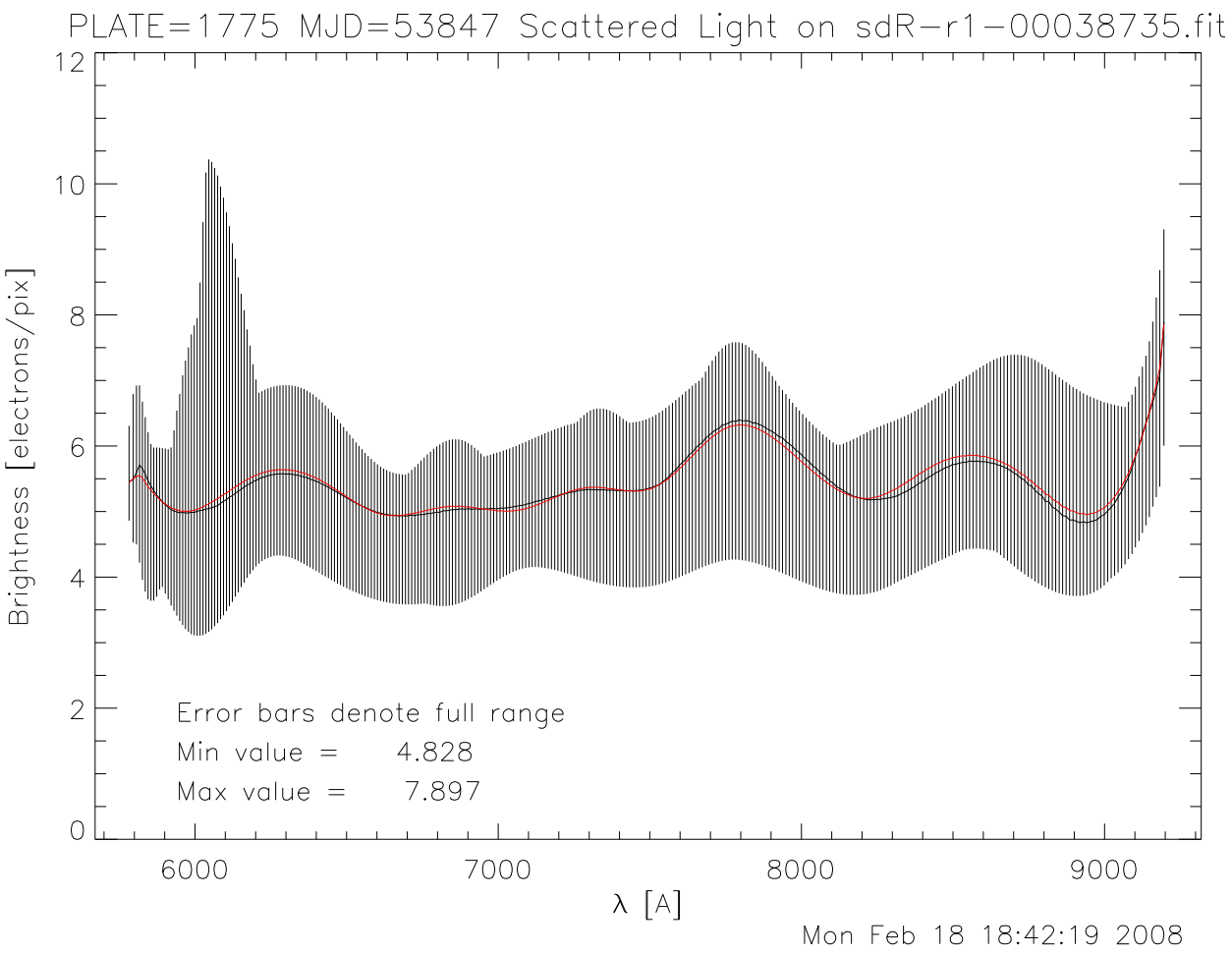

PLATE=1775 MJD=53847 Arcline Fit for sdR-r1-00038734.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Mon Feb 18 18:37:58 2008

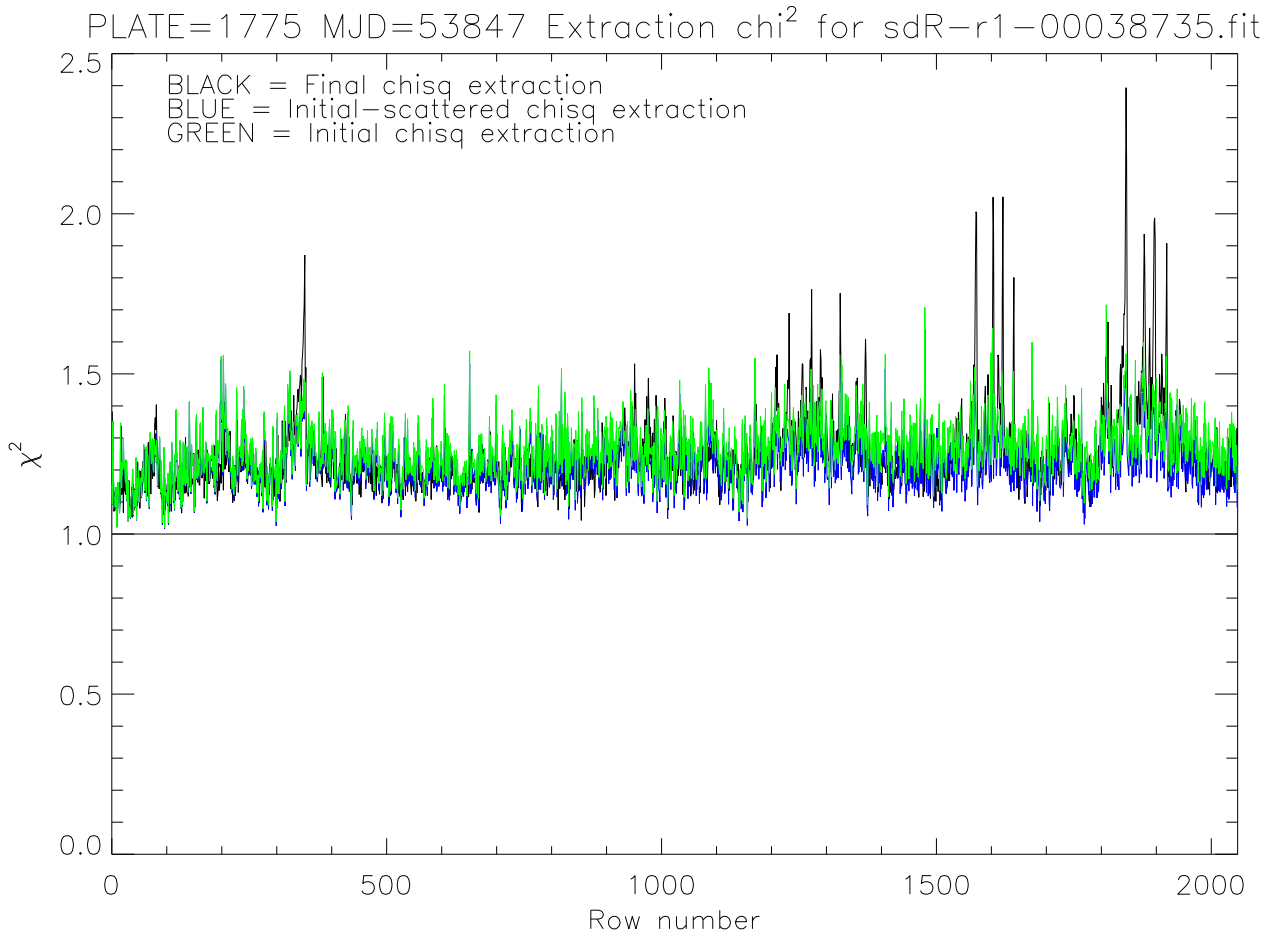

PLATE=1775 MJD=53847 Fiber−Flats for sdR−r1−00038733.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.212
Max value = 1.271
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 18 18:38:08 2008

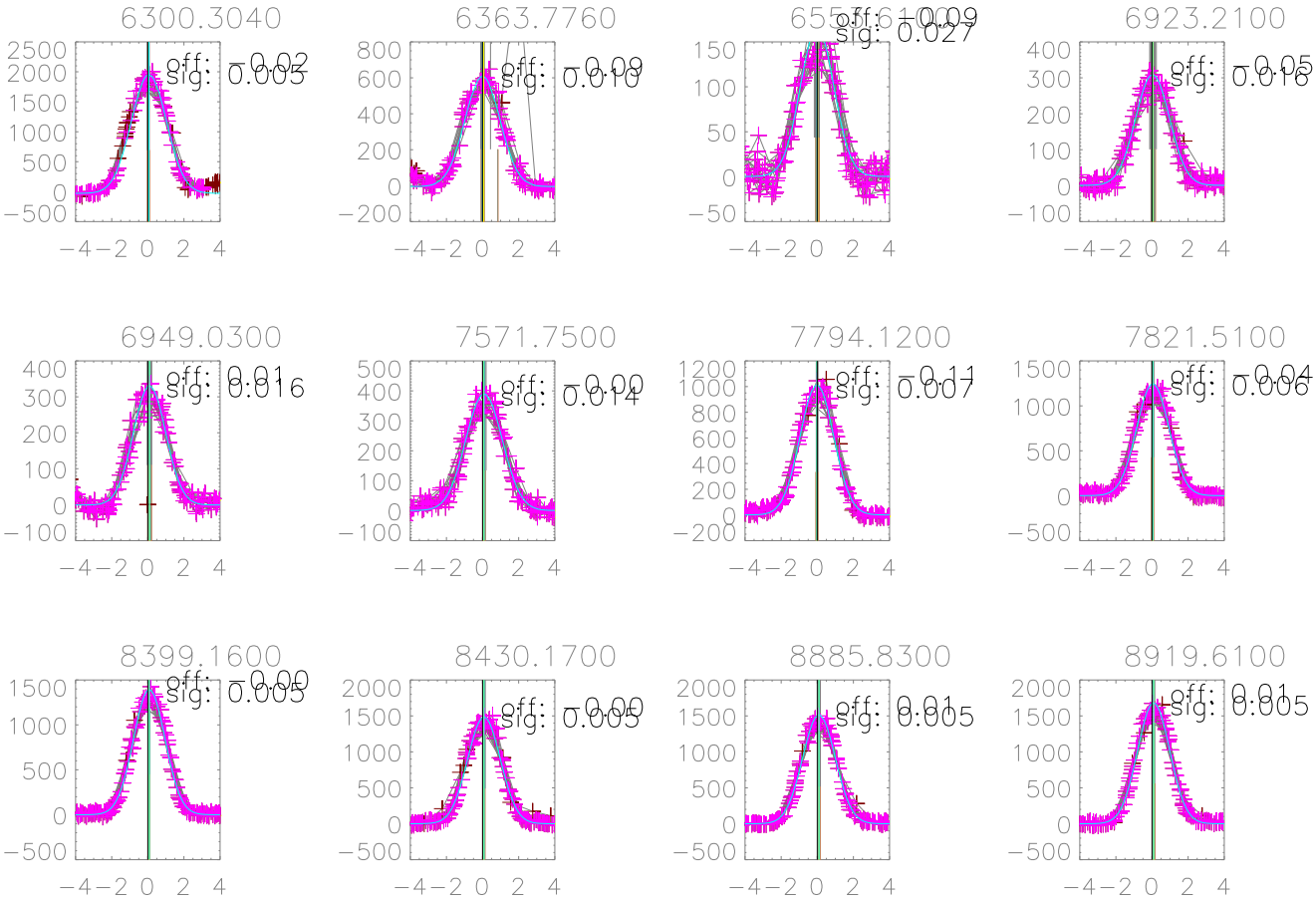

PLATE=1775 MJD=53847 Scattered Light before halo removal on sdR-r1-00038735.fi
22.3
22.3
22.3
15.9
15.9
15.9
9.5
9.5
9.5
Y [pix]
X [pix]
0
500
1000
1500
2000

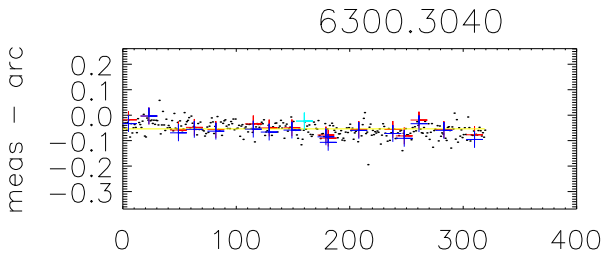

PLATE=1775 MJD=53847 Scattered Light before halo removal on sdR-r1-00038735.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.614
Max value = 27.282
Mon Feb 18 18:38:58 2008

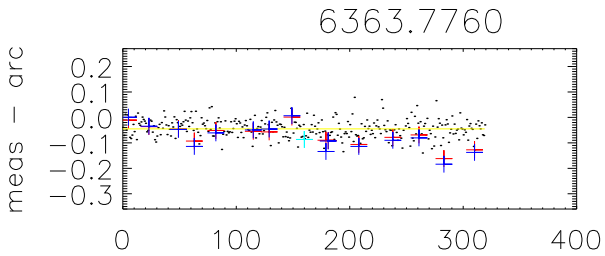

PLATE=1775 MJD=53847 Scattered Light on sdR−r1−00038735.fit
6.5
4.7
Y [pix]
X [pix]
0
500
1000
1500
2000

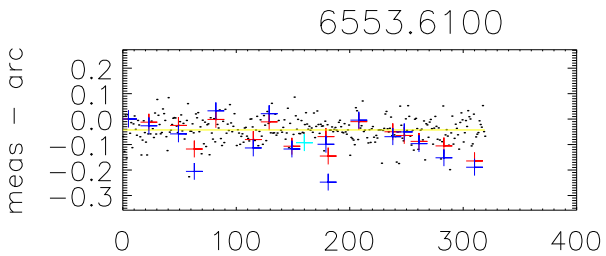

PLATE=1775 MJD=53847 Scattered Light on sdR-r1-00038735.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.828
Max value = 7.897
Mon Feb 18 18:42:19 2008

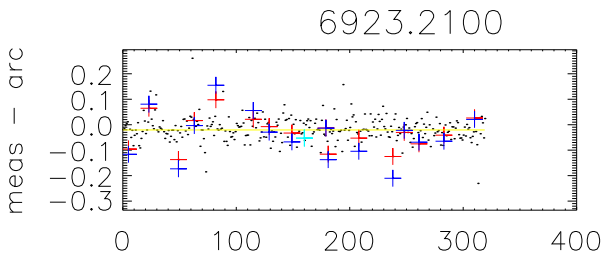

PLATE=1775 MJD=53847 Extraction chi^2 for sdR−r1−00038735.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

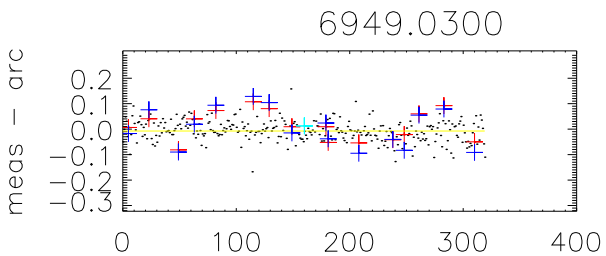

6300.3040
off: −0.02
sig: 0.005
6363.7760
off: −0.09
sig: 0.010
6555.6100
off: 0.09
sig: 0.027
6923.2100
off: −0.05
sig: 0.016
6949.0300
off: 0.01
sig: 0.016
7571.7500
off: −0.00
sig: 0.014
7794.1200
off: −0.11
sig: 0.007
7821.5100
off: −0.04
sig: 0.006
8399.1600
off: −0.00
sig: 0.005
8430.1700
off: −0.00
sig: 0.005
8885.8300
off: 0.01
sig: 0.005
8919.6100
off: 0.01
sig: 0.005

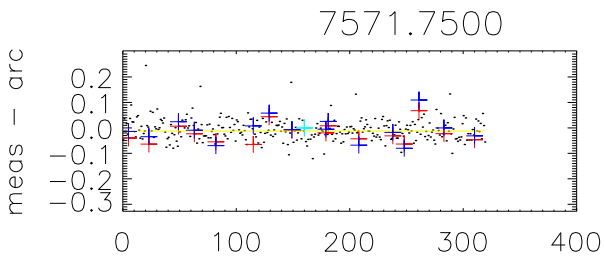

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

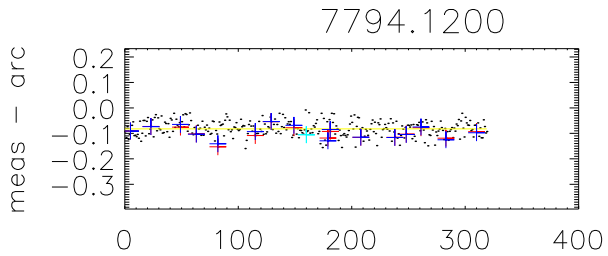

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

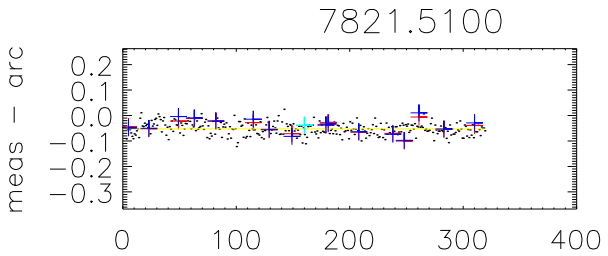

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

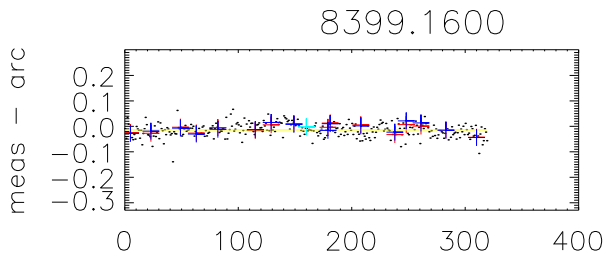

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

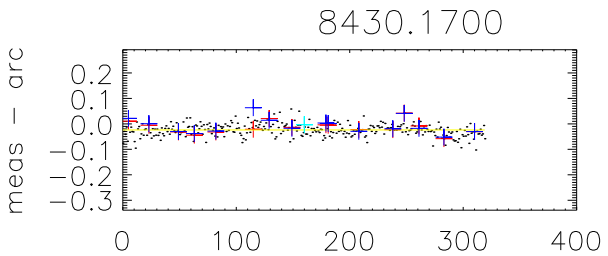

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

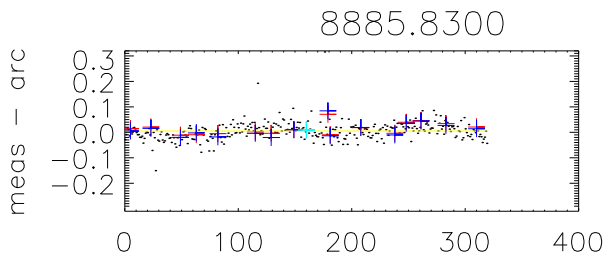

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

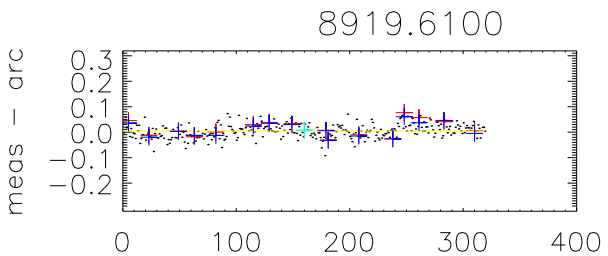

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

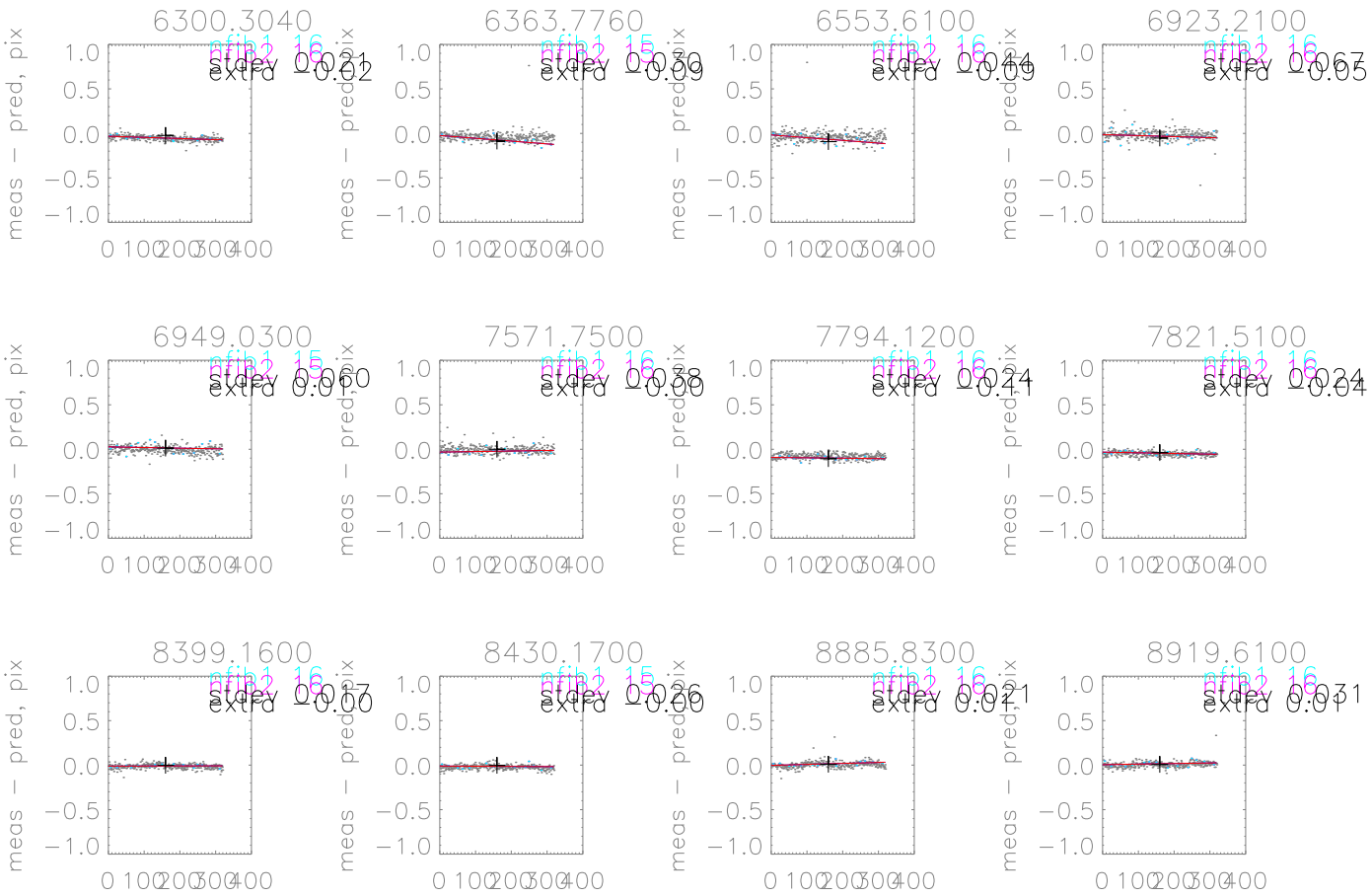

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

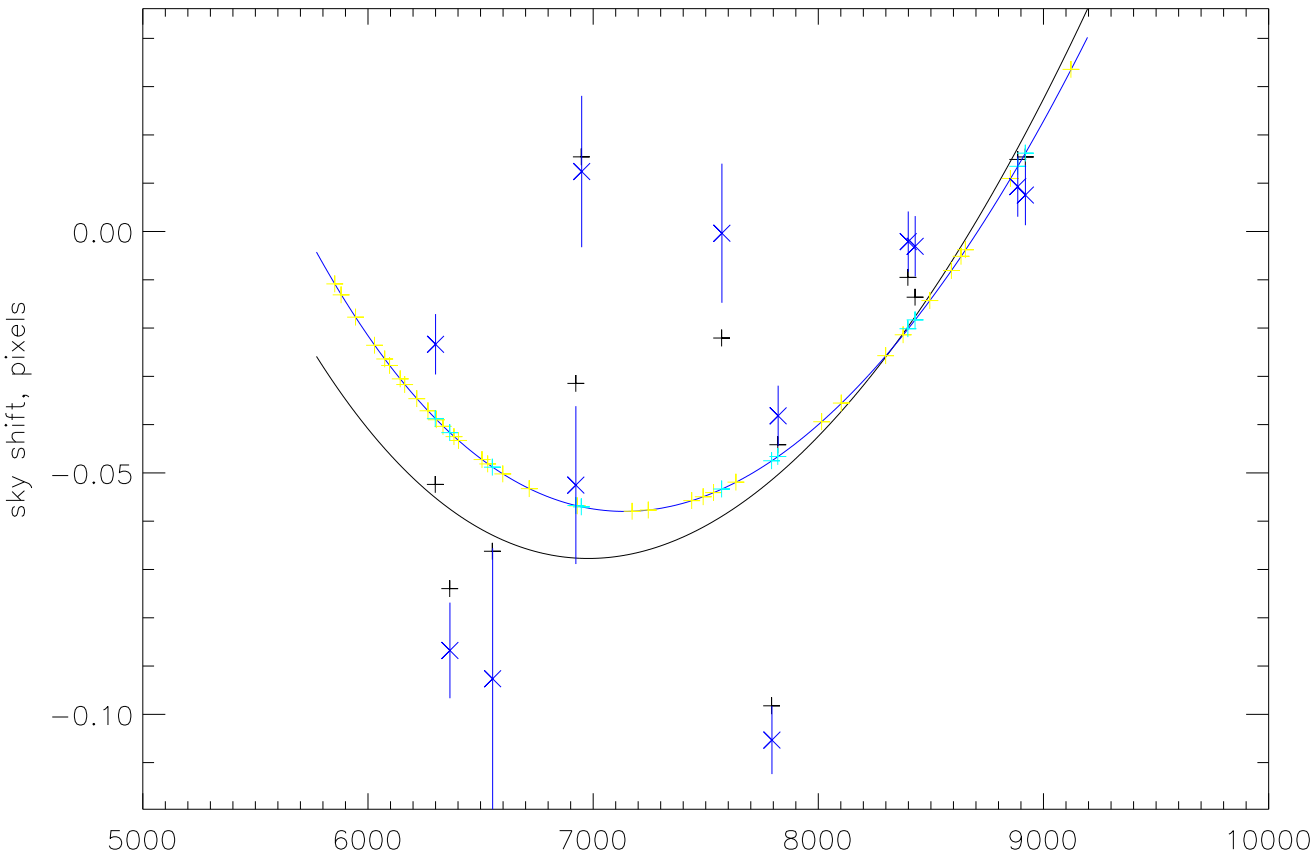

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

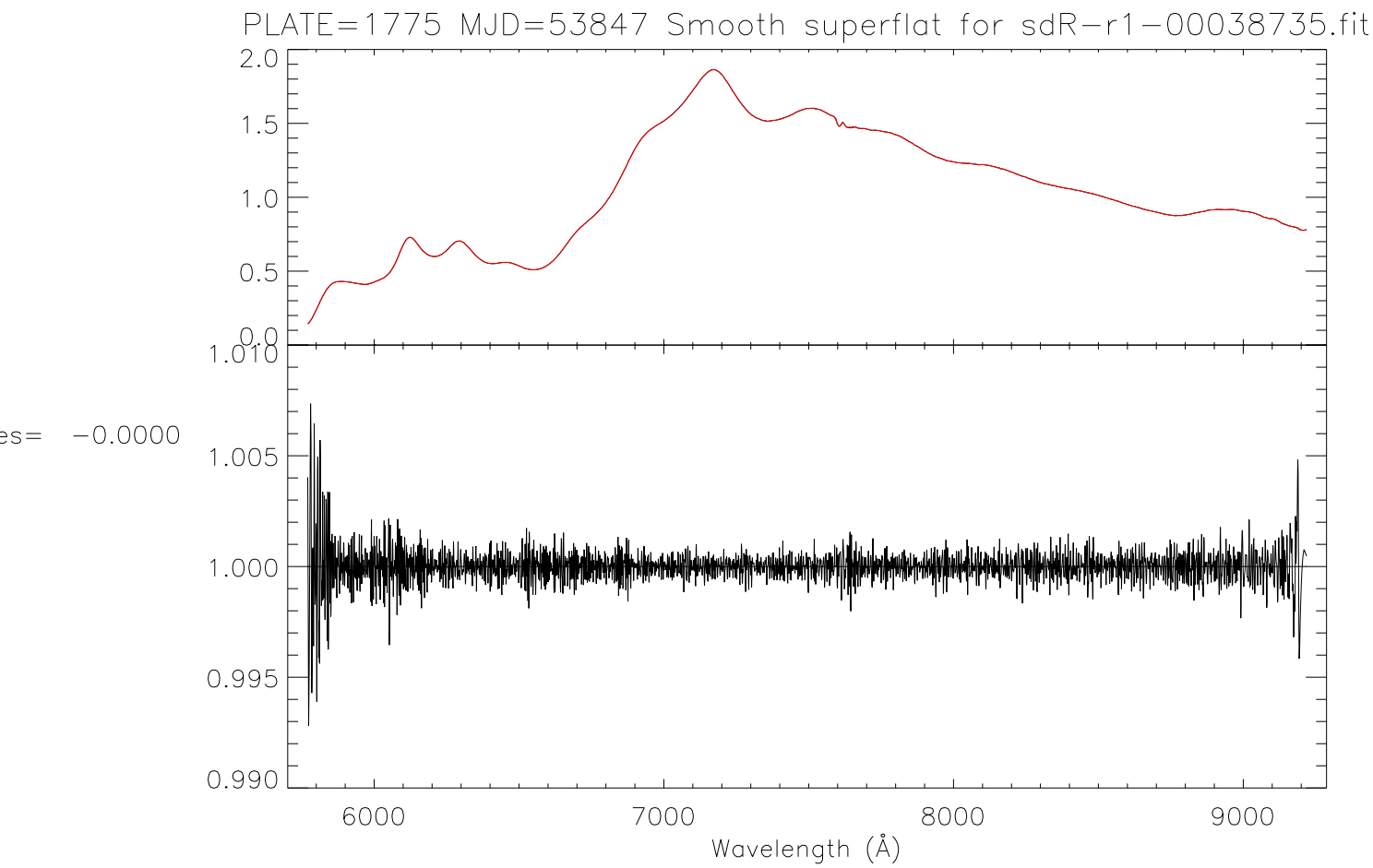

8430.1700
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

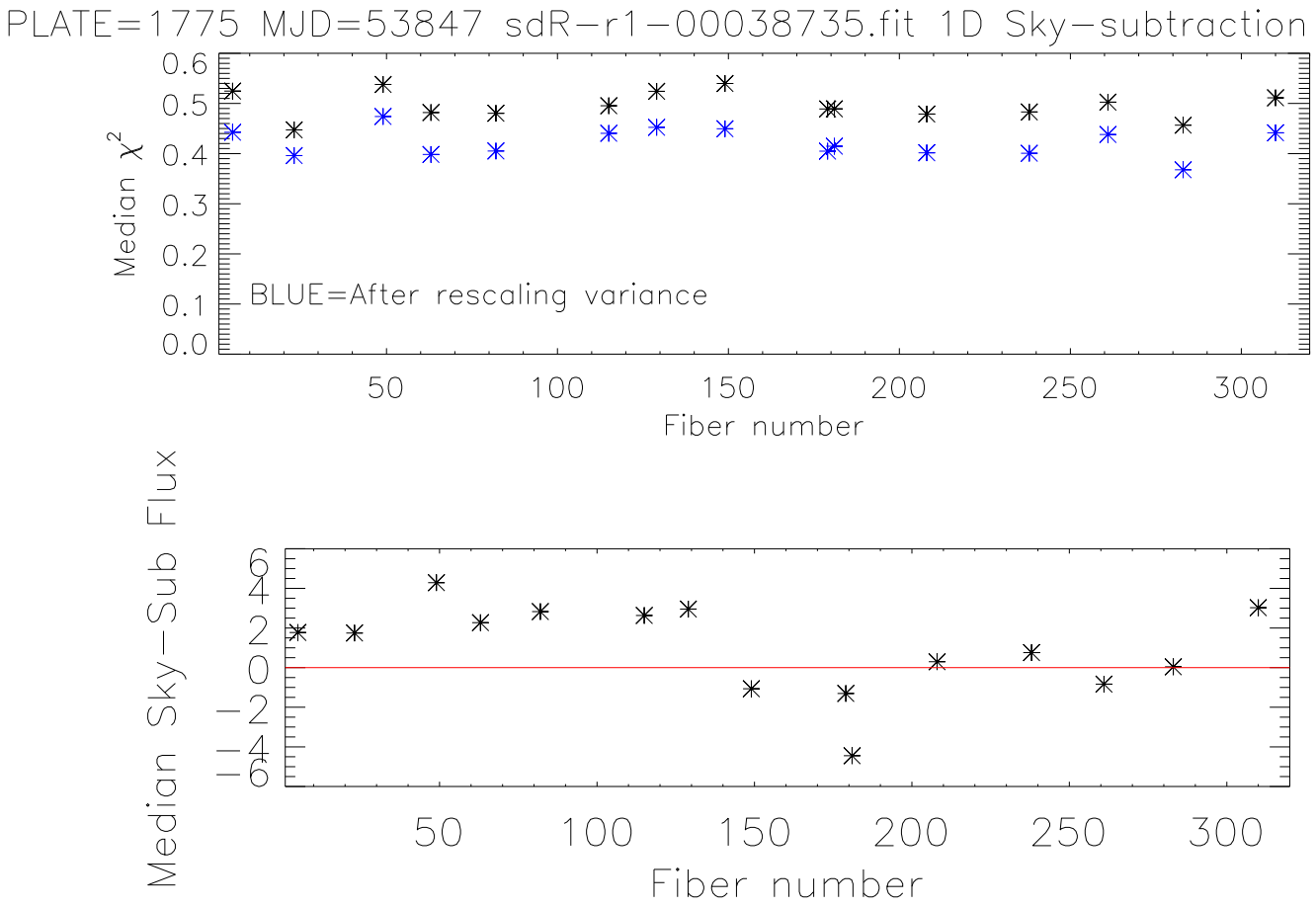

8885.8300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

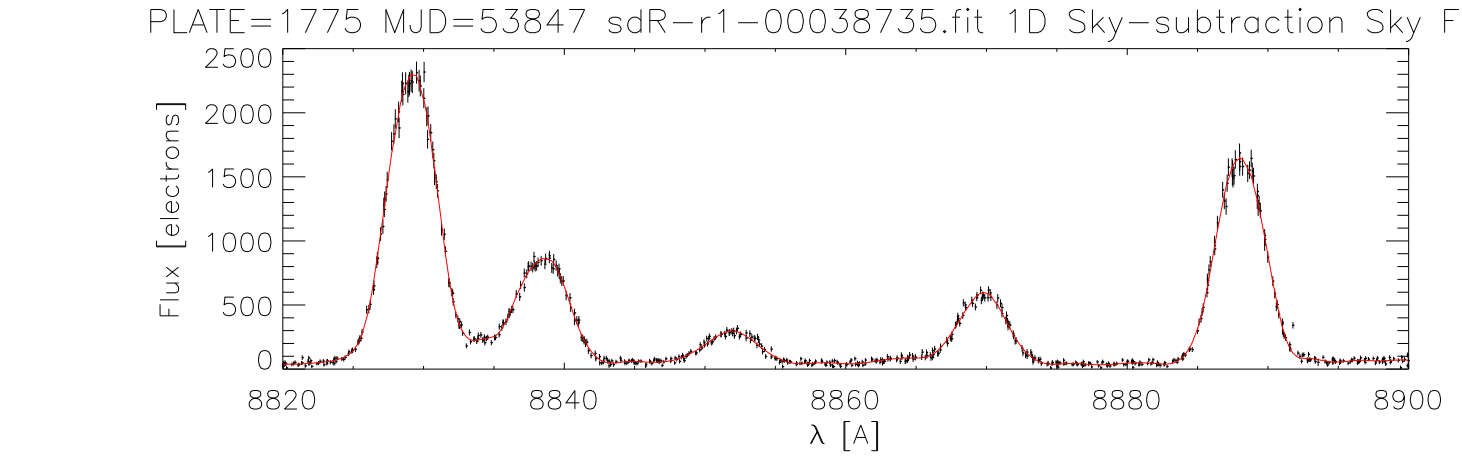

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

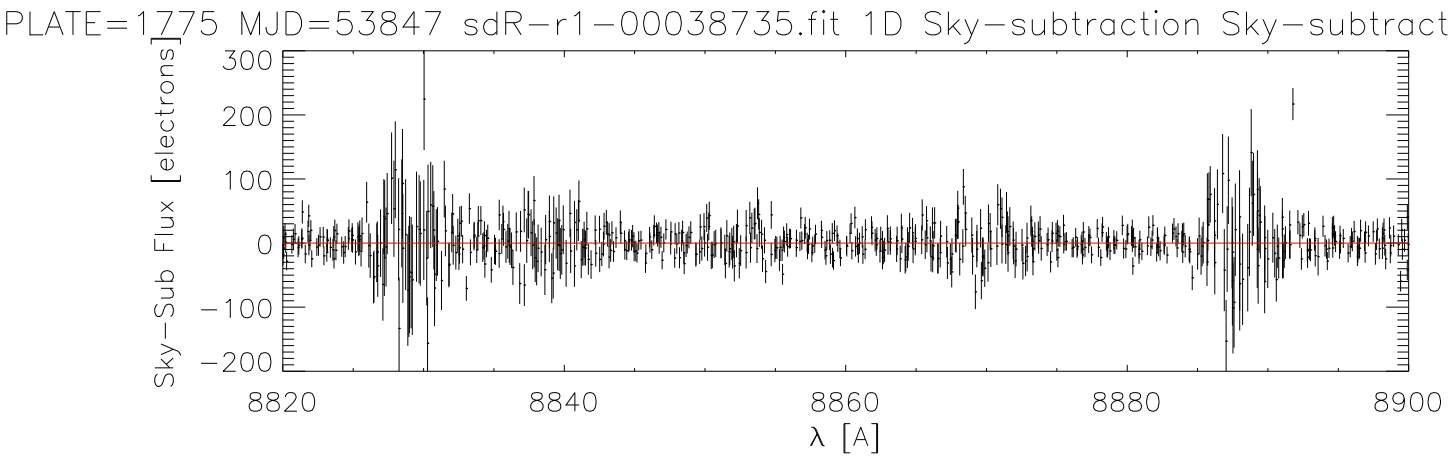

6300.3040
stdev 0.021
extra −0.02
6363.7760
stdev 0.030
extra −0.00
6553.6100
stdev 0.044
extra −0.00
6923.2100
stdev 0.067
extra −0.05
6949.0300
stdev 0.060
extra 0.01
7571.7500
stdev 0.038
extra −0.00
7794.1200
stdev 0.024
extra −0.01
7821.5100
stdev 0.024
extra −0.04
8399.1600
stdev 0.017
extra −0.00
8430.1700
stdev 0.026
extra −0.00
8885.8300
stdev 0.021
extra 0.01
8919.6100
stdev 0.031
extra 0.01
meas − pred, pix
mfib1 15
mfib2 16

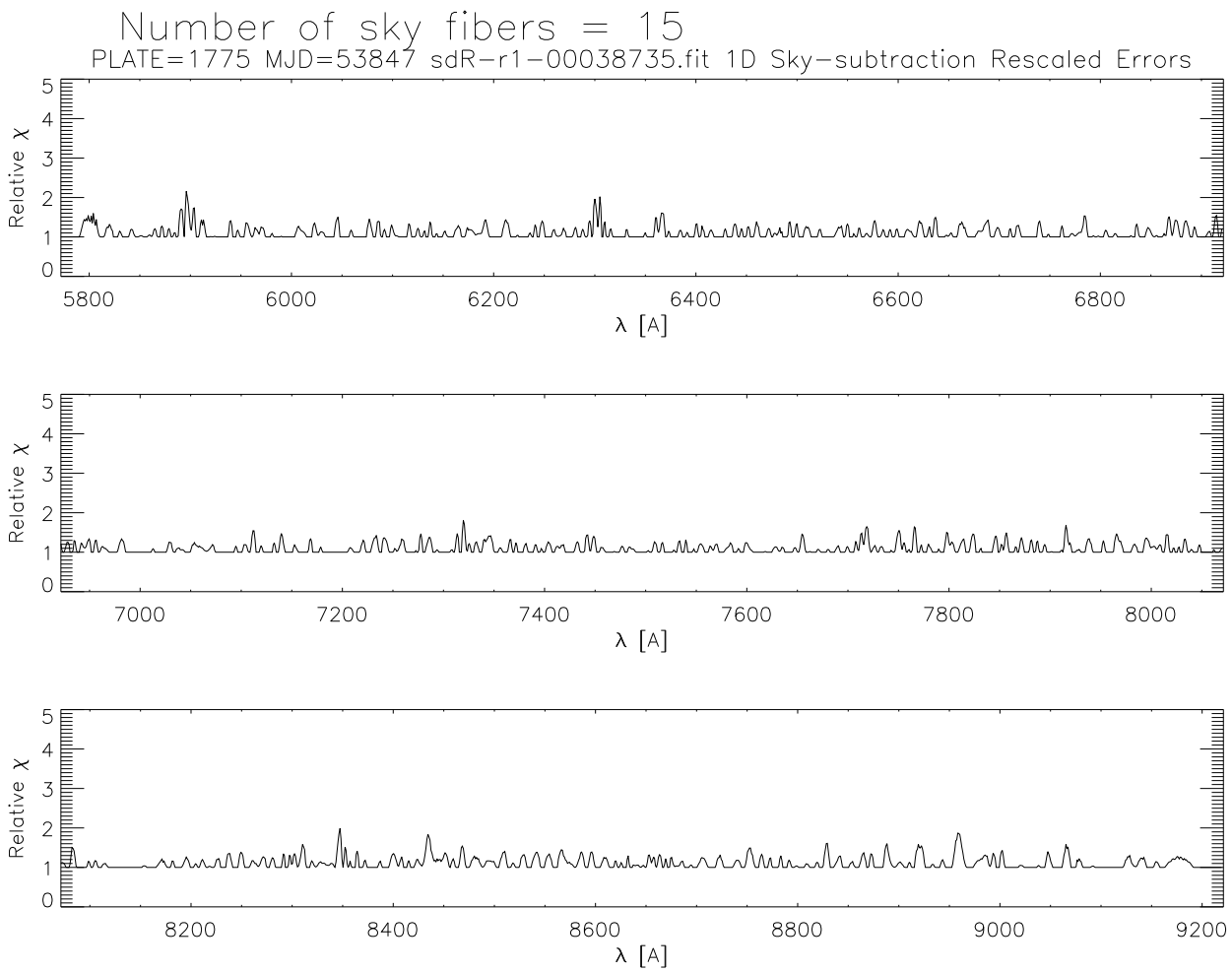

sky shift, pixels
0.00
−0.05
−0.10
5000
6000
7000
8000
9000
10000

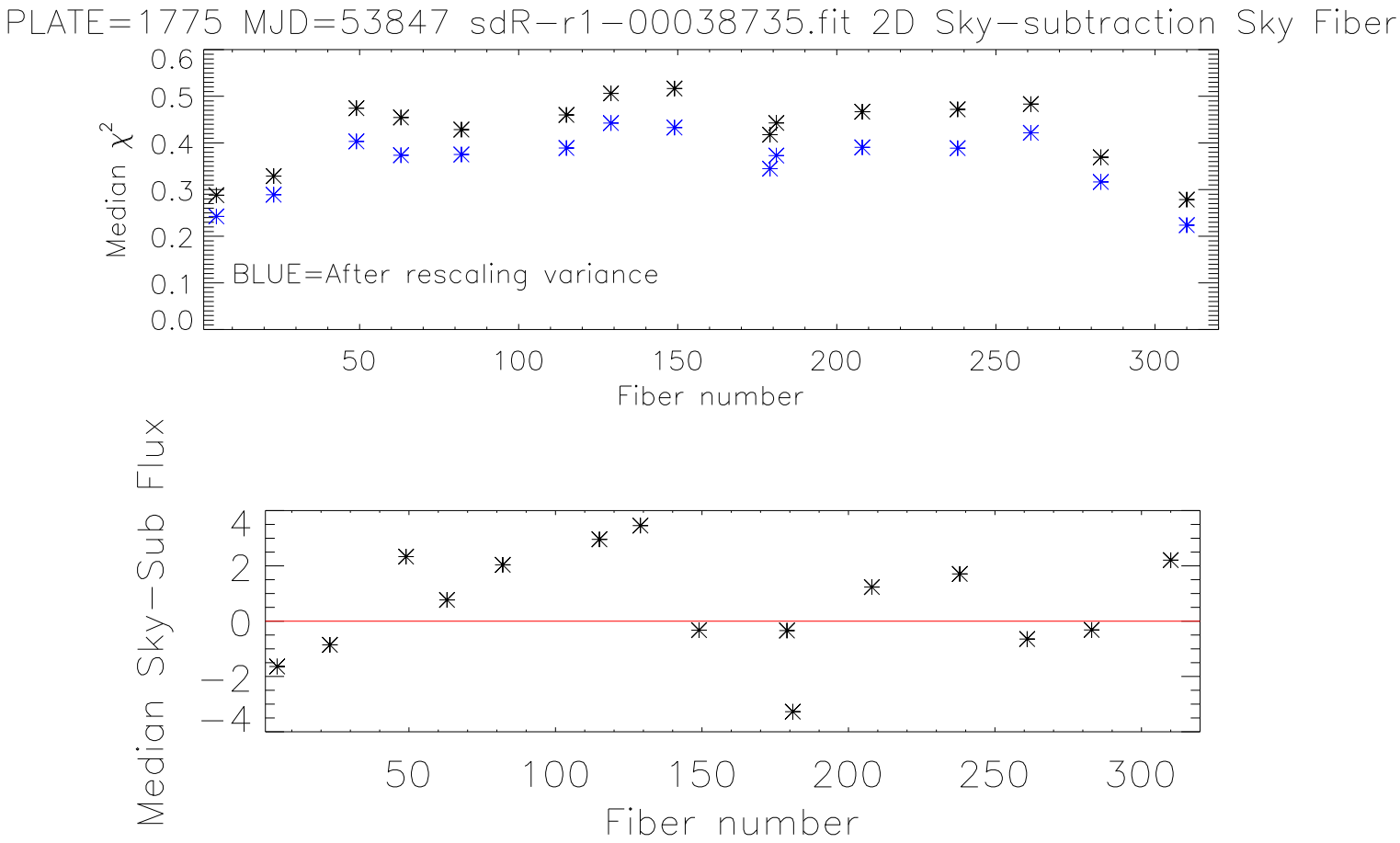

PLATE=1775 MJD=53847 Smooth superflat for sdR-r1-00038735.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

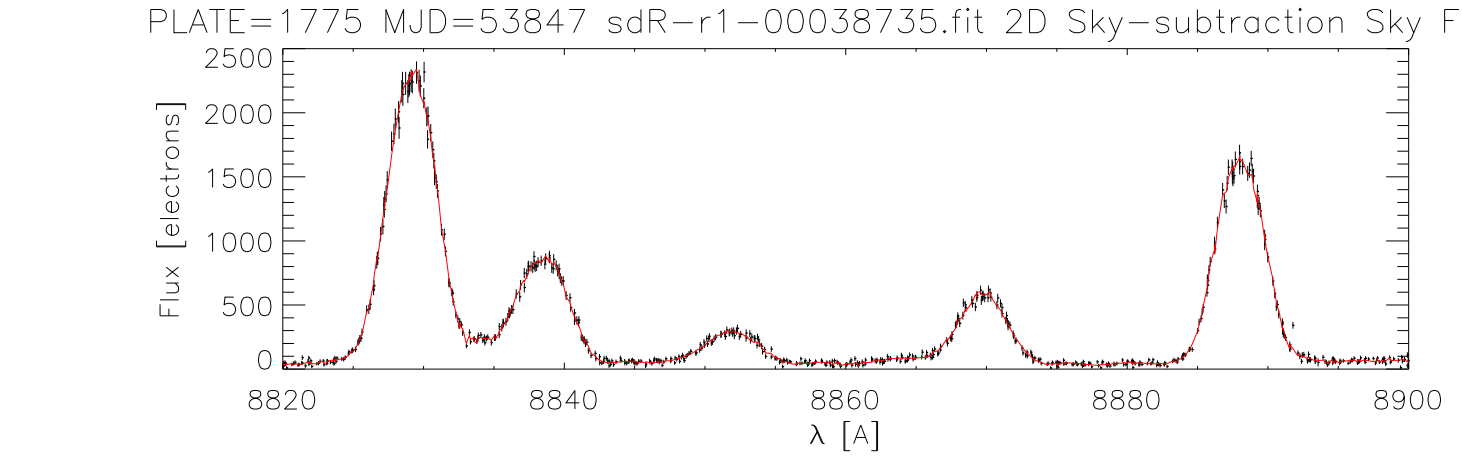

PLATE=1775 MJD=53847 sdR-r1-00038735.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

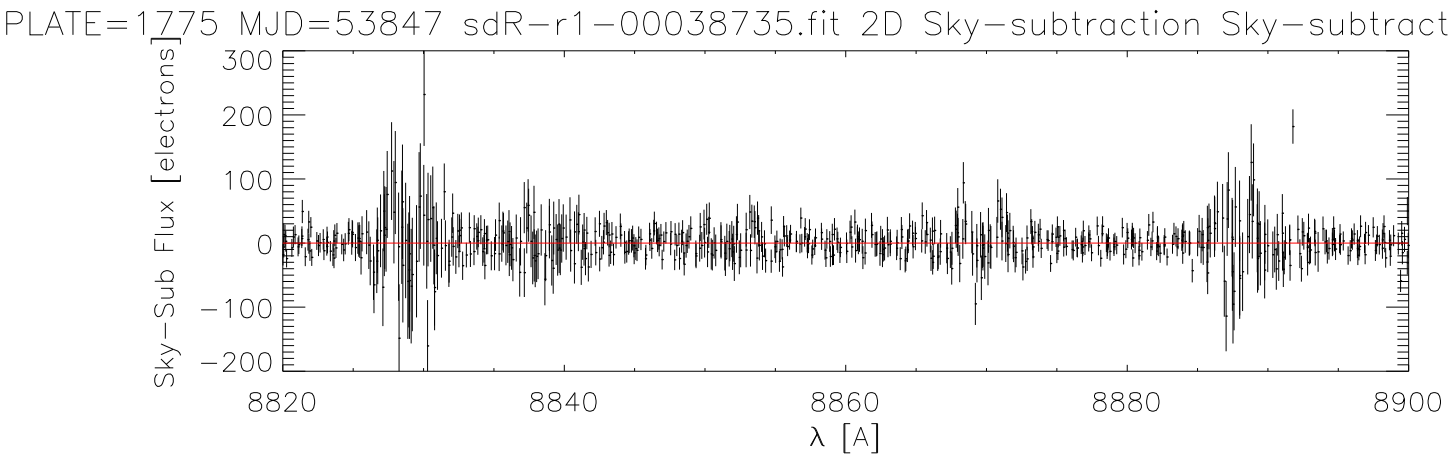

PLATE=1775 MJD=53847 sdR-r1-00038735.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

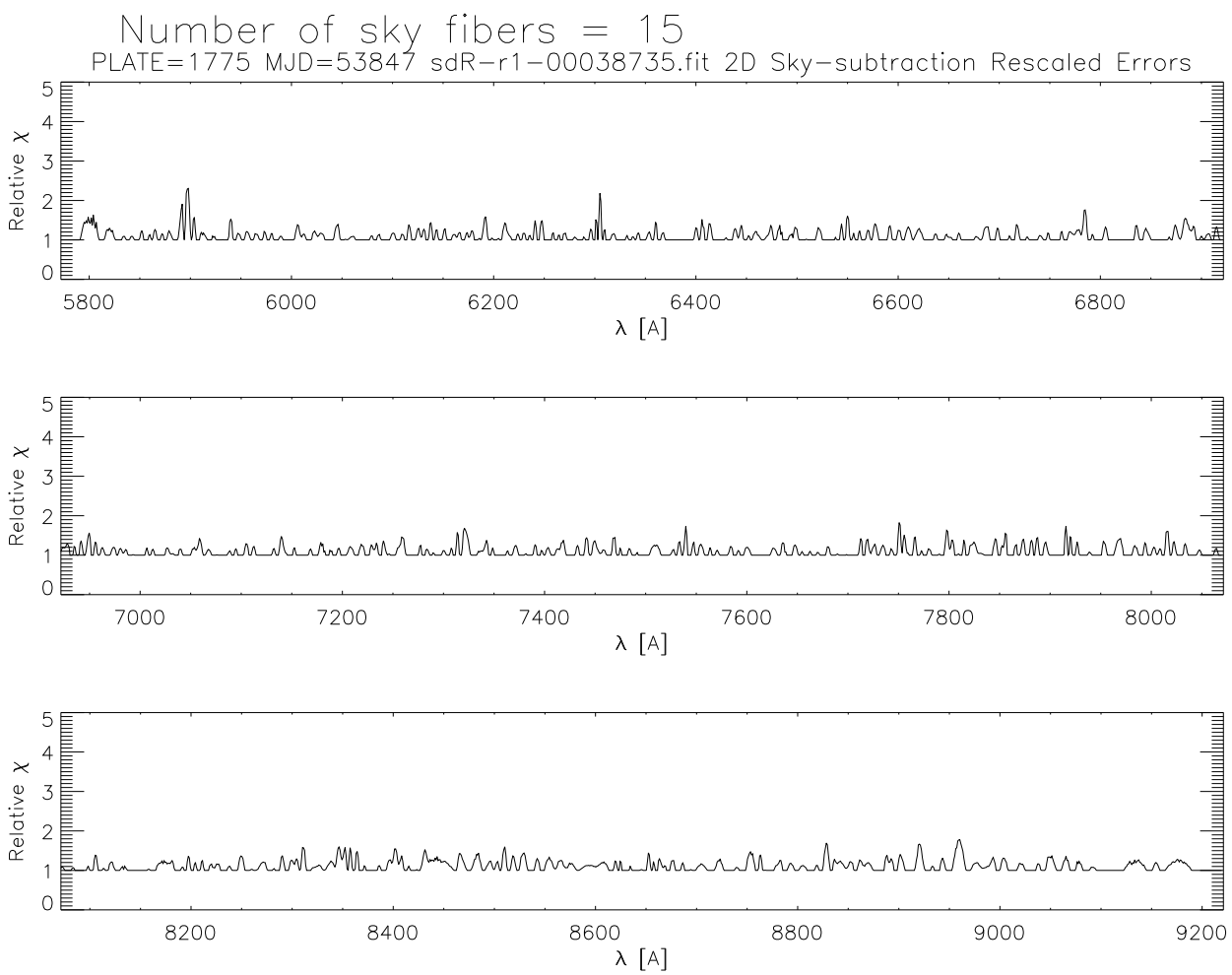

PLATE=1775 MJD=53847 sdR-r1-00038735.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

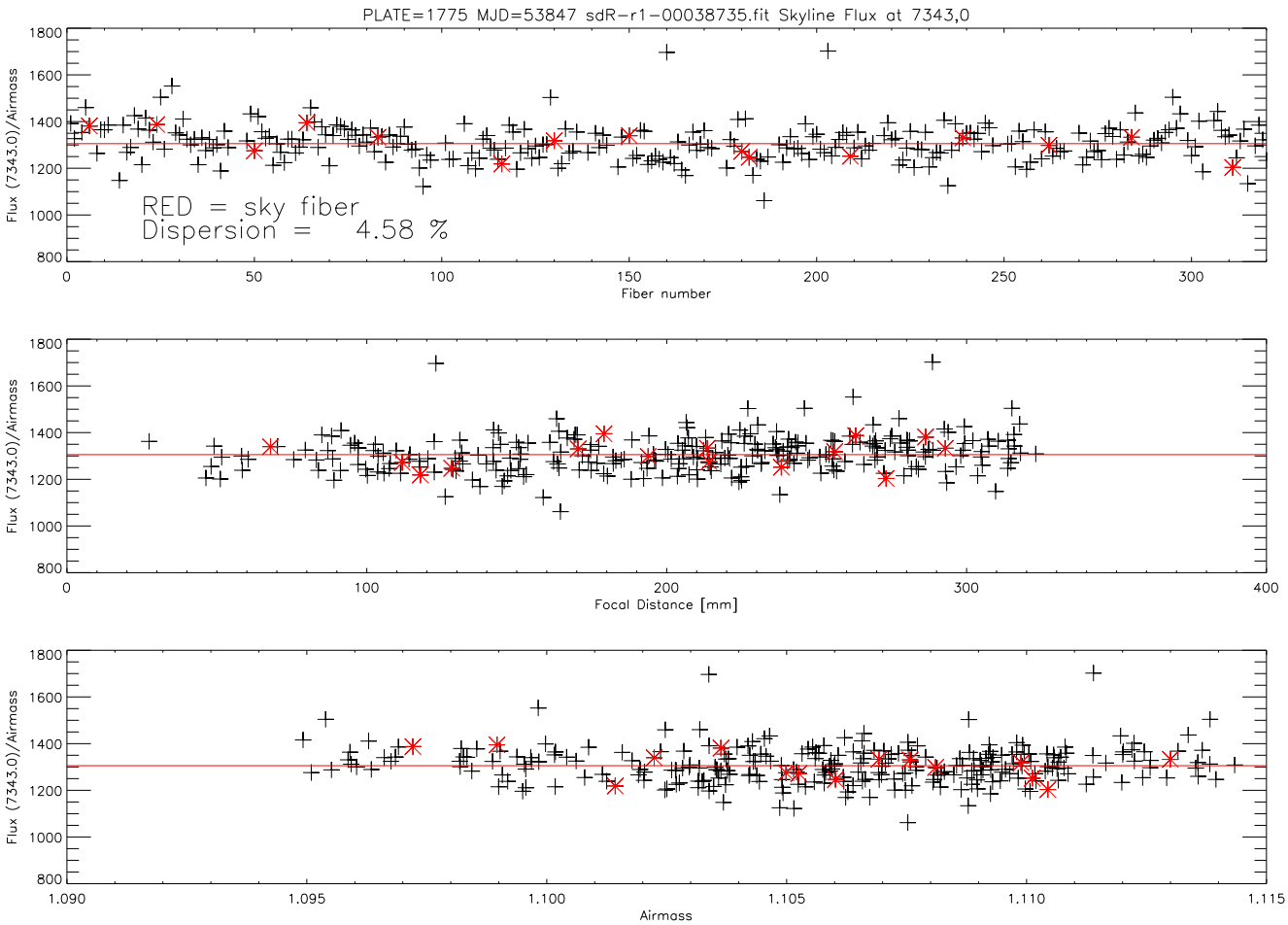

Number of sky fibers = 15
PLATE=1775 MJD=53847 sdR-r1-00038735.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

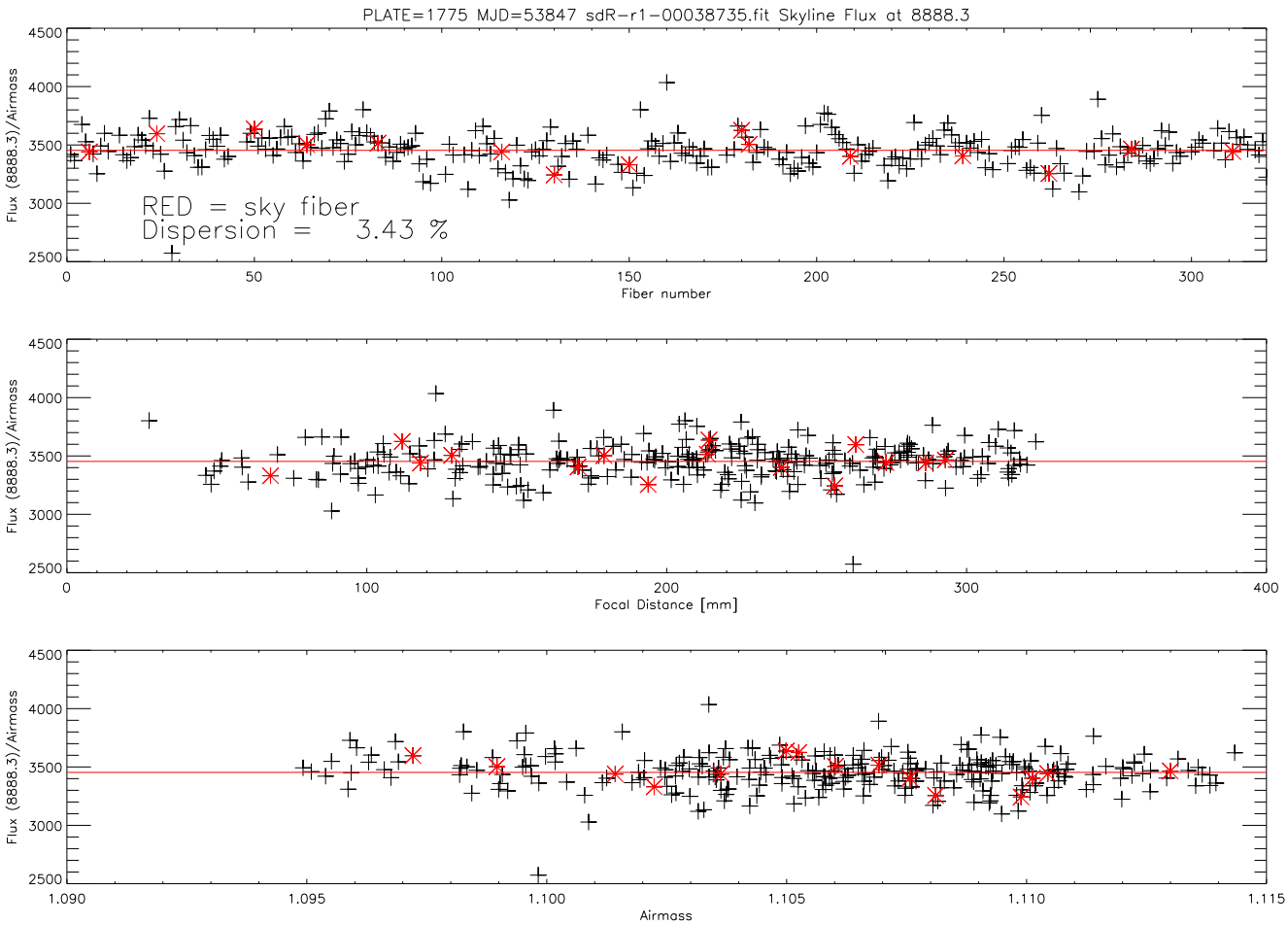

PLATE=1775 MJD=53847 sdR-r1-00038735.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

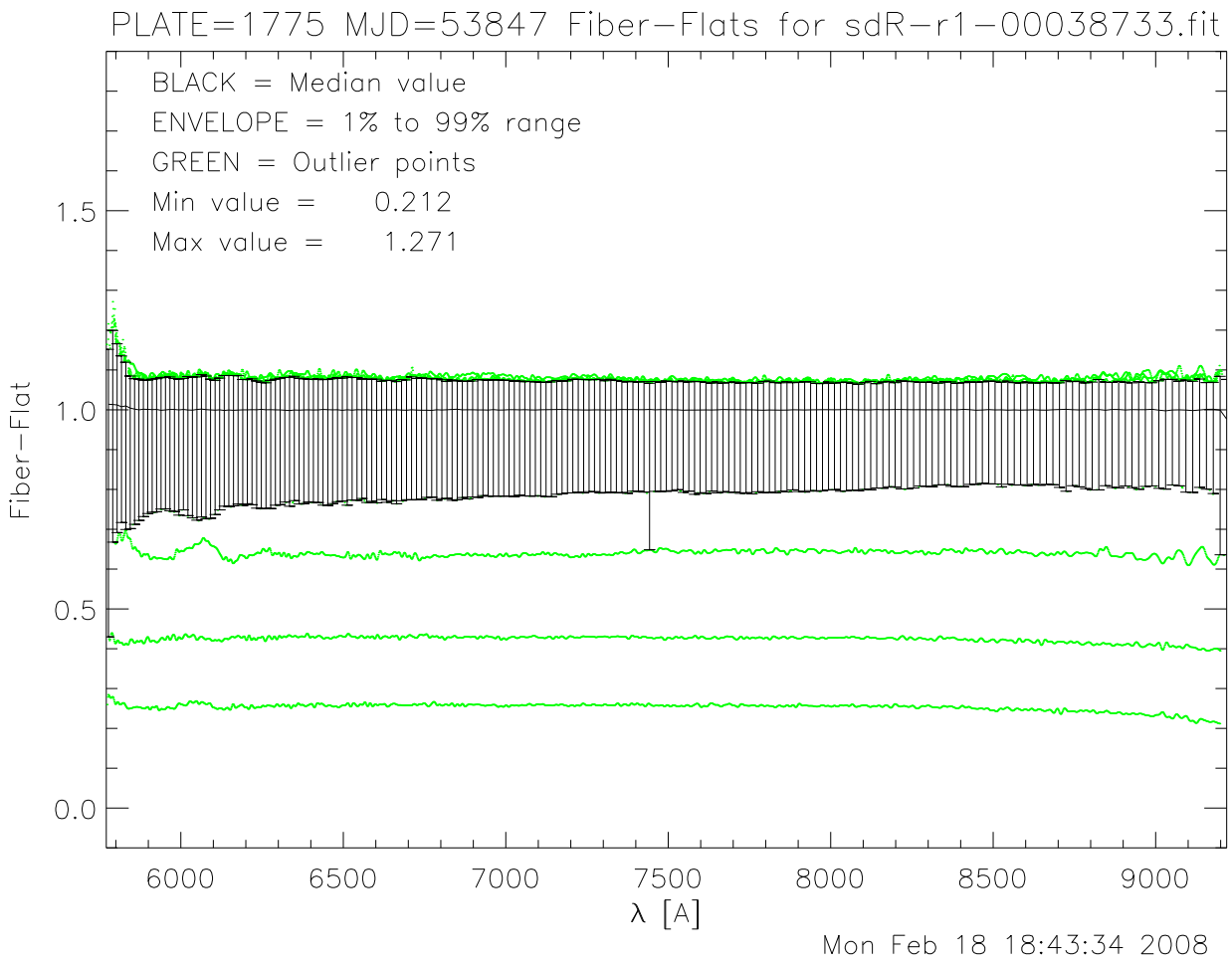

PLATE=1775 MJD=53847 sdR-r1-00038735.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

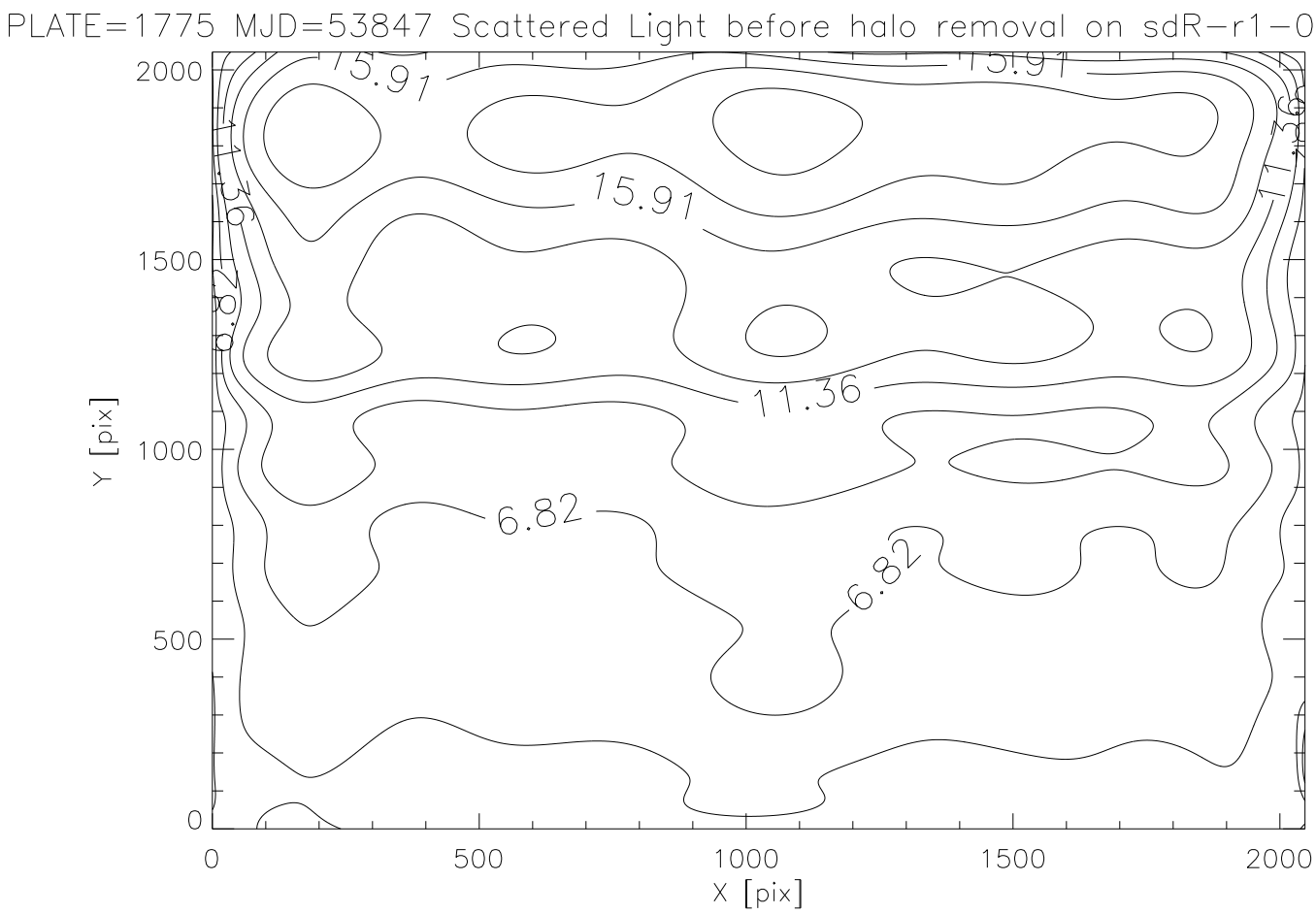

PLATE=1775 MJD=53847 sdR-r1-00038735.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

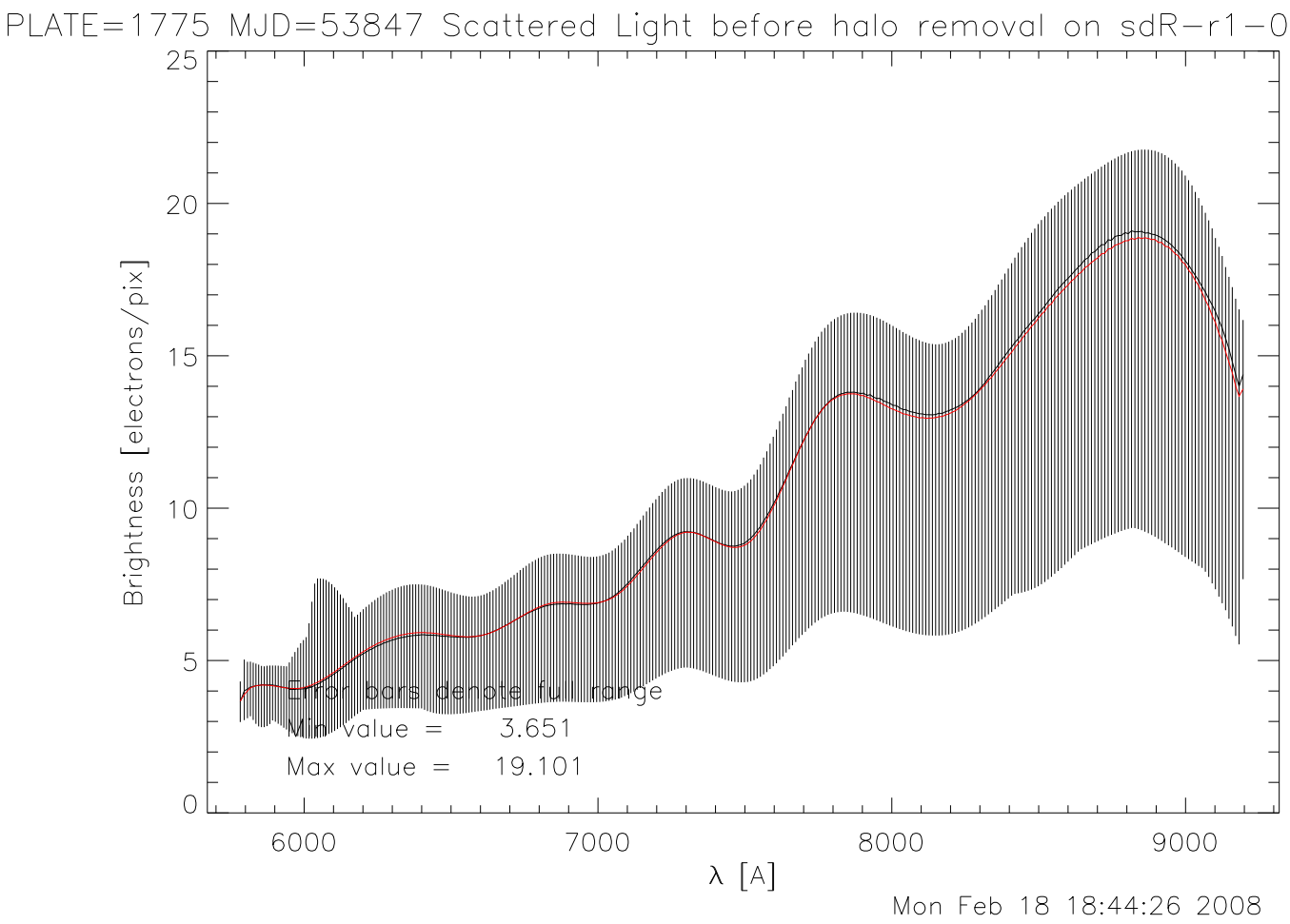

Number of sky fibers = 15
PLATE=1775 MJD=53847 sdR-r1-00038735.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

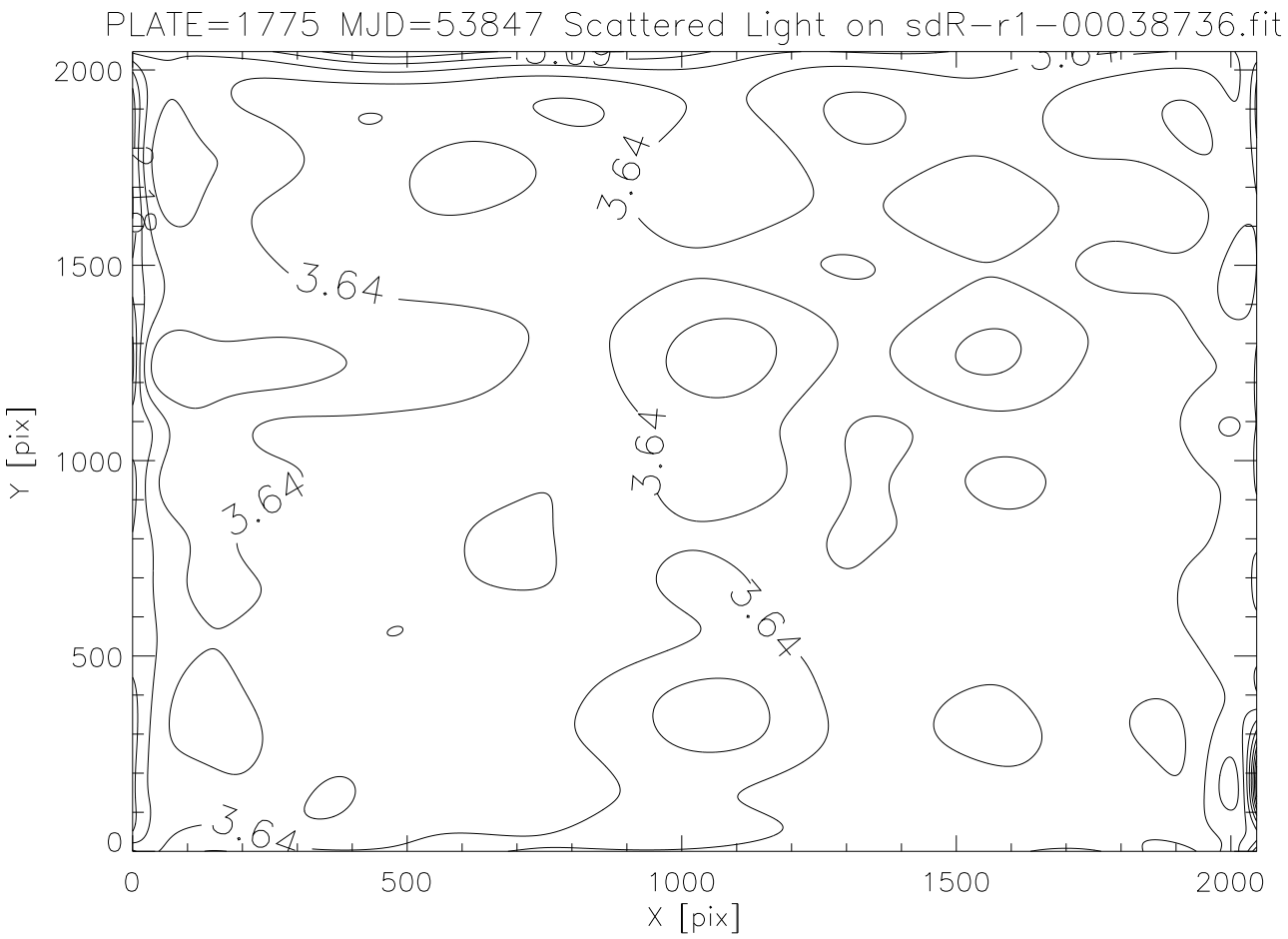

PLATE=1775 MJD=53847 sdR-r1-00038735.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 4.58 %
Fiber number
Focal Distance [mm]
Airmass

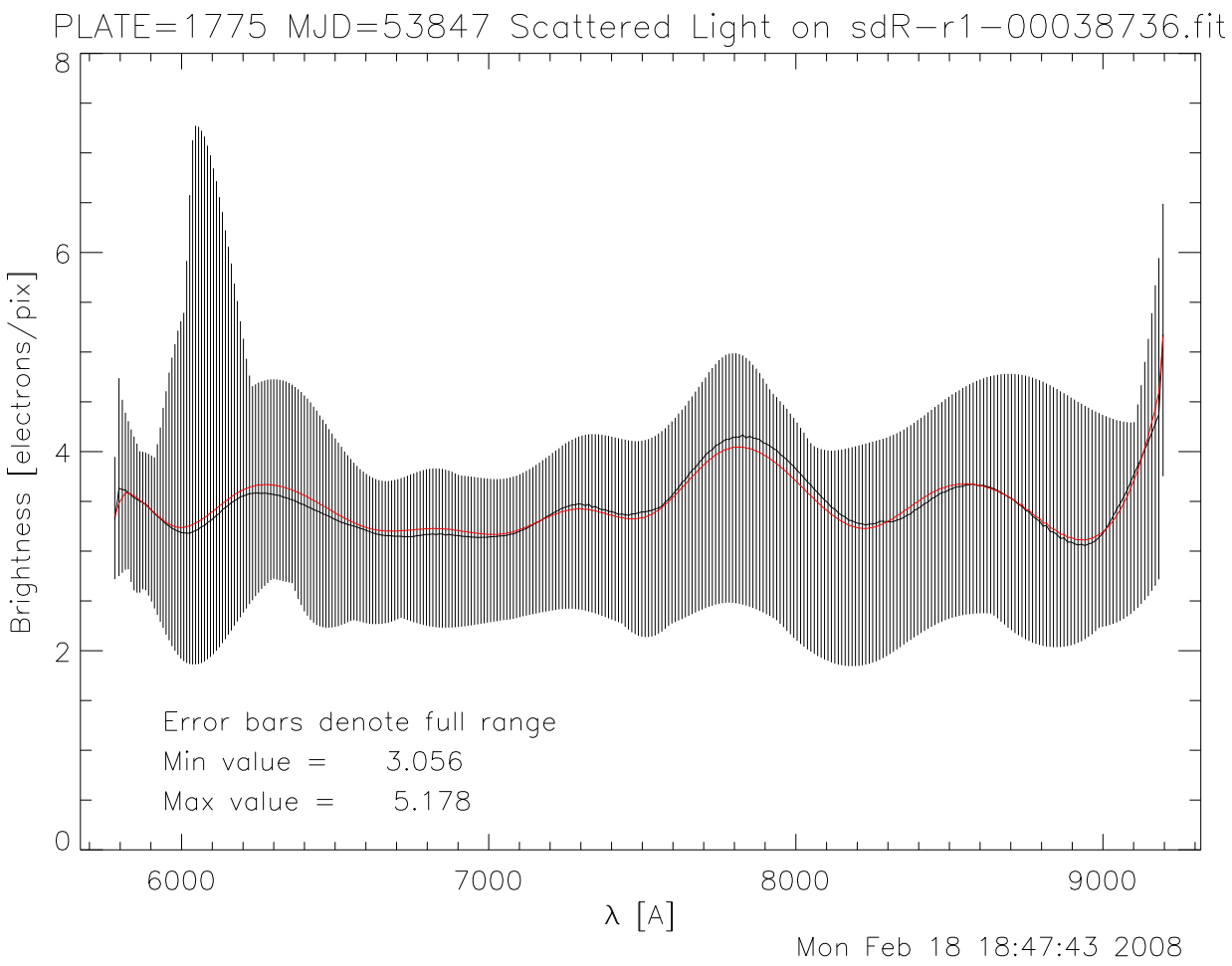

PLATE=1775 MJD=53847 sdR-r1-00038735.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 3.43 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

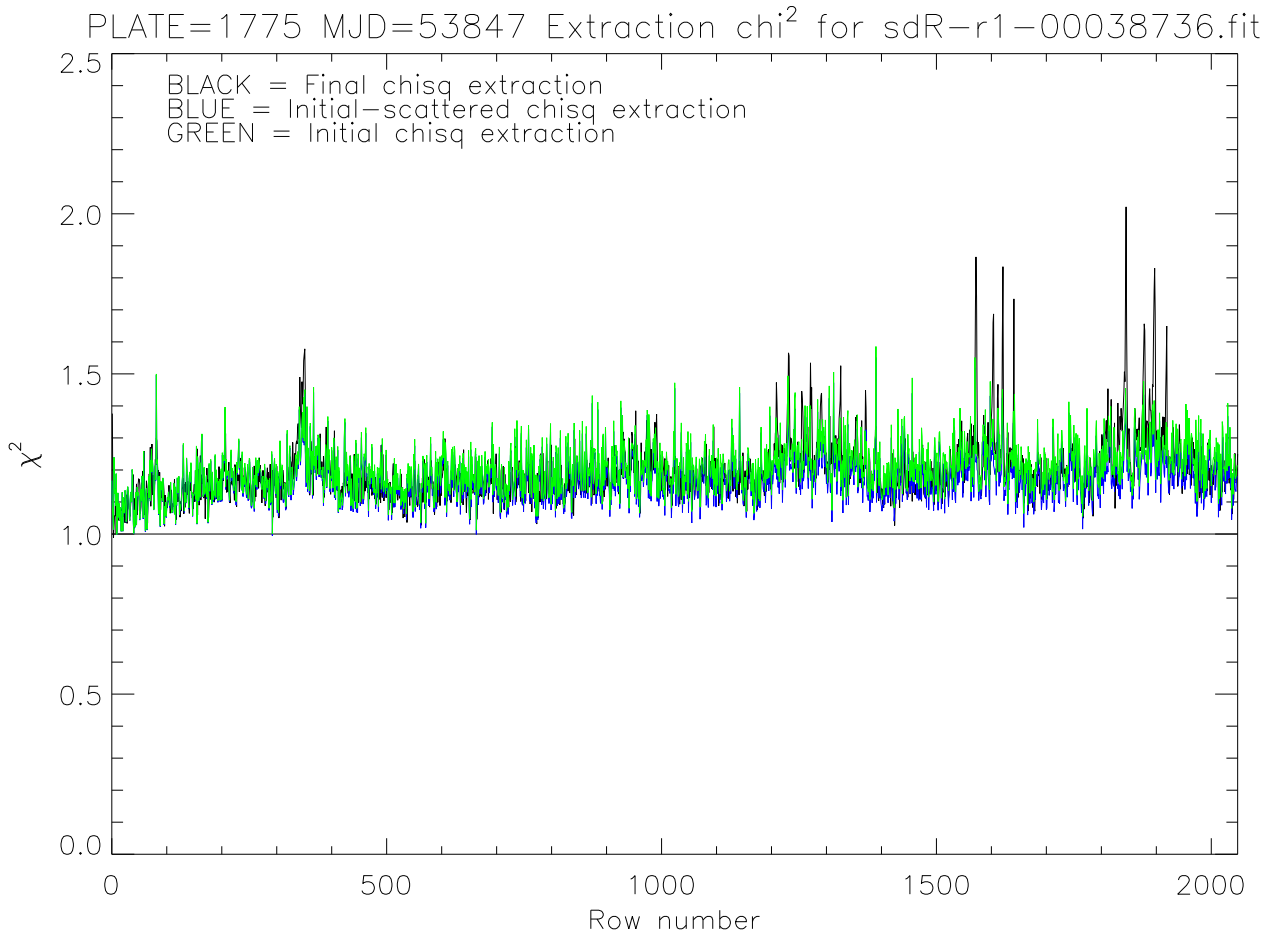

PLATE=1775 MJD=53847 Fiber−Flats for sdR−r1−00038733.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.212
Max value = 1.271
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 18 18:43:34 2008

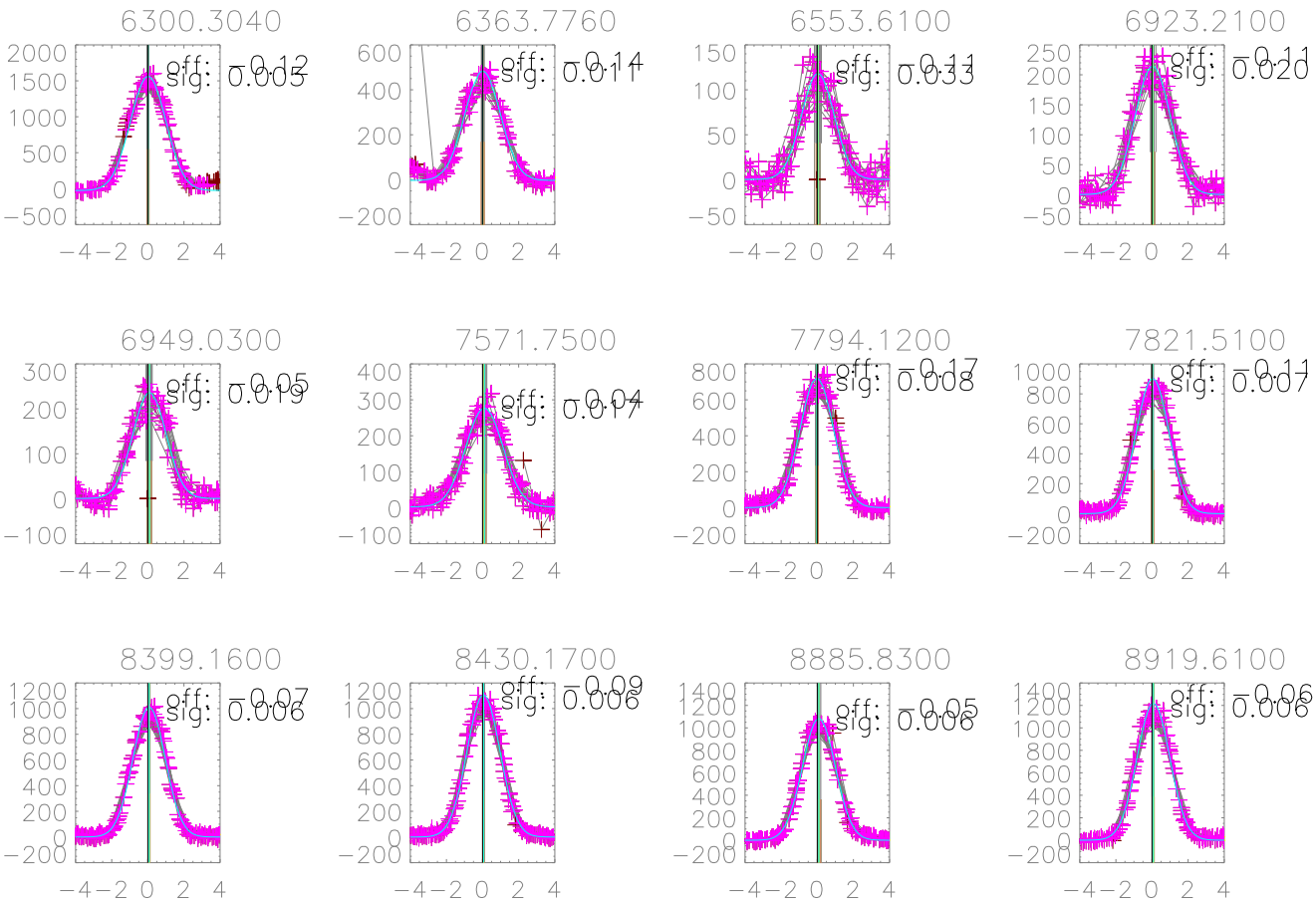

PLATE=1775 MJD=53847 Scattered Light before halo removal on sdR-r1-00038736.fi
15.91
15.91
15.91
11.36
11.36
11.36
6.82
6.82
6.82
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

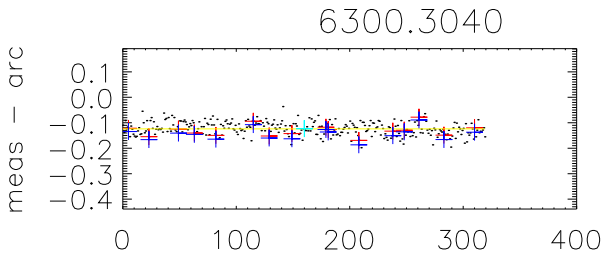

PLATE=1775 MJD=53847 Scattered Light before halo removal on sdR-r1-00038736.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.651
Max value = 19.101
Mon Feb 18 18:44:26 2008

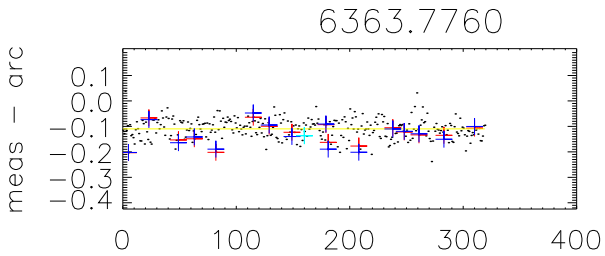

PLATE=1775 MJD=53847 Scattered Light on sdR-r1-00038736.fit
3.64
3.64
3.64
3.64
3.64
0
0
0
0
0
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

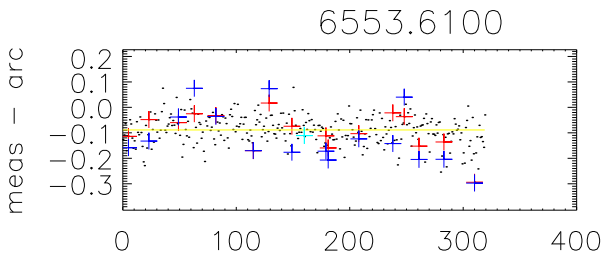

PLATE=1775 MJD=53847 Scattered Light on sdR-r1-00038736.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.056
Max value = 5.178
Mon Feb 18 18:47:43 2008

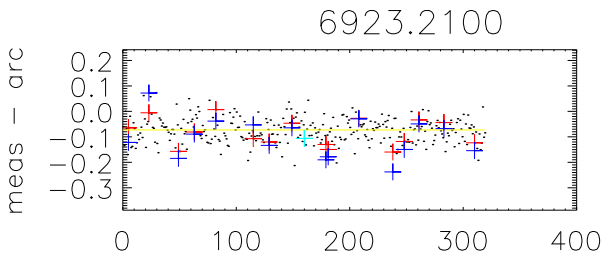

PLATE=1775 MJD=53847 Extraction chi^2 for sdR−r1−00038736.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

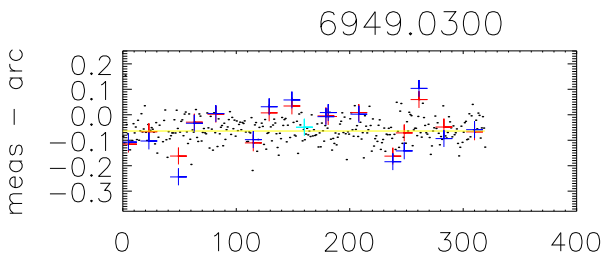

6300.3040
off: −0.12
sig: 0.005
6363.7760
off: −0.14
sig: 0.011
6553.6100
off: −0.11
sig: 0.033
6923.2100
off: −0.11
sig: 0.020
6949.0300
off: −0.05
sig: 0.019
7571.7500
off: −0.04
sig: 0.017
7794.1200
off: −0.17
sig: 0.008
7821.5100
off: −0.11
sig: 0.007
8399.1600
off: −0.07
sig: 0.006
8430.1700
off: −0.09
sig: 0.006
8885.8300
off: −0.05
sig: 0.006
8919.6100
off: −0.06
sig: 0.006

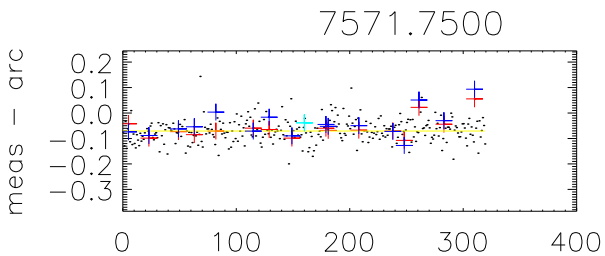

6300.3040
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

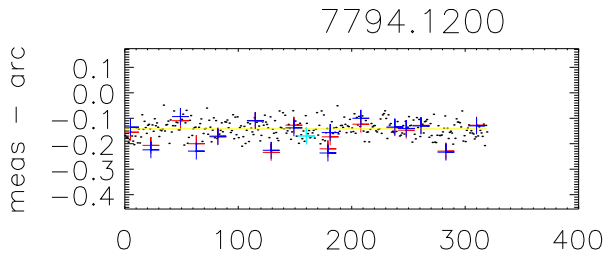

6363.7760
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

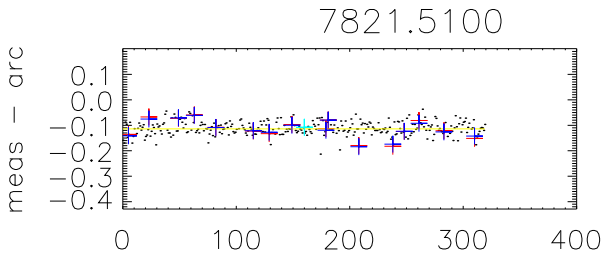

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

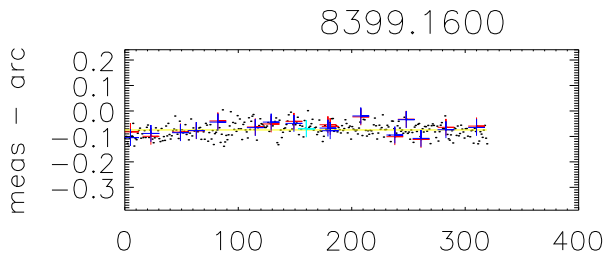

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

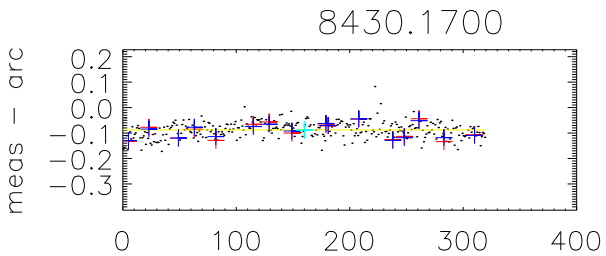

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

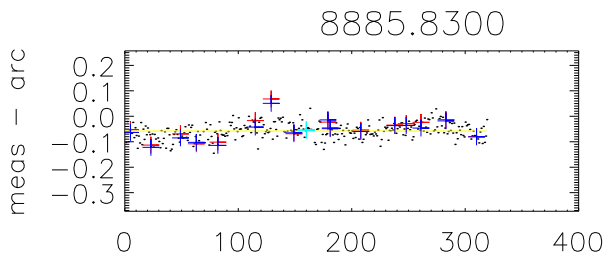

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

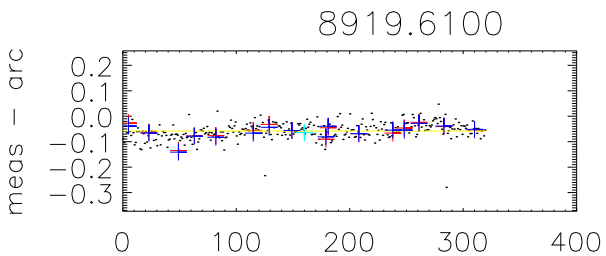

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

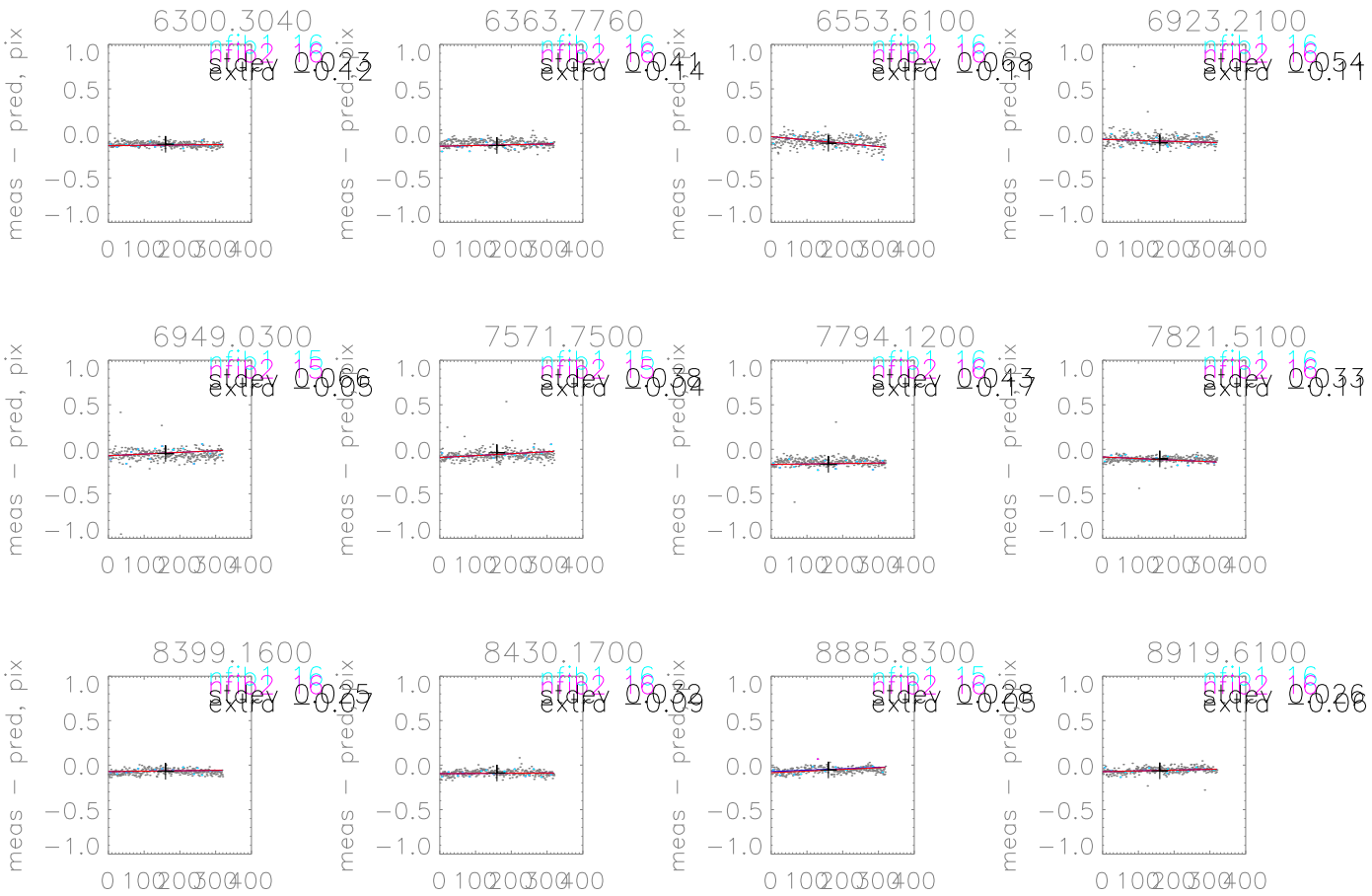

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

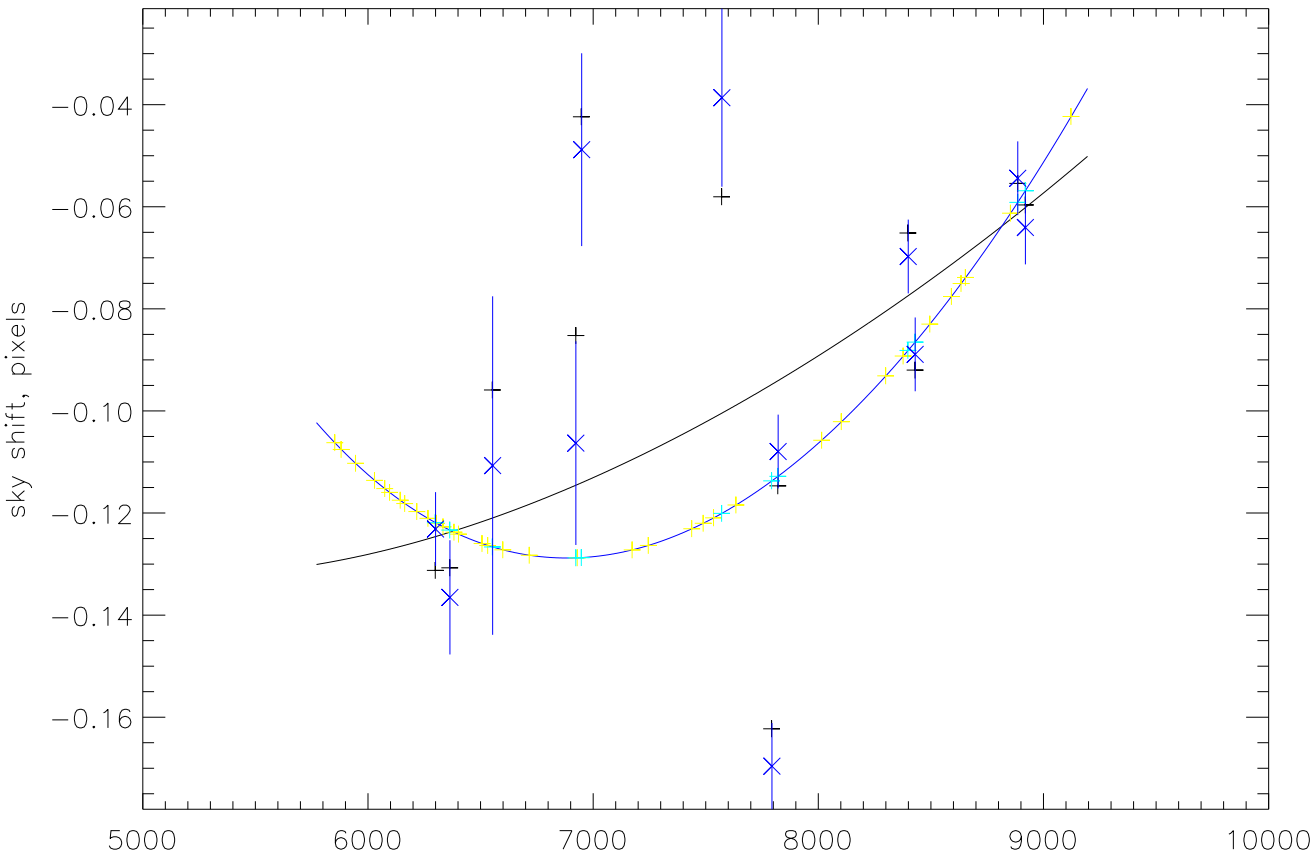

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

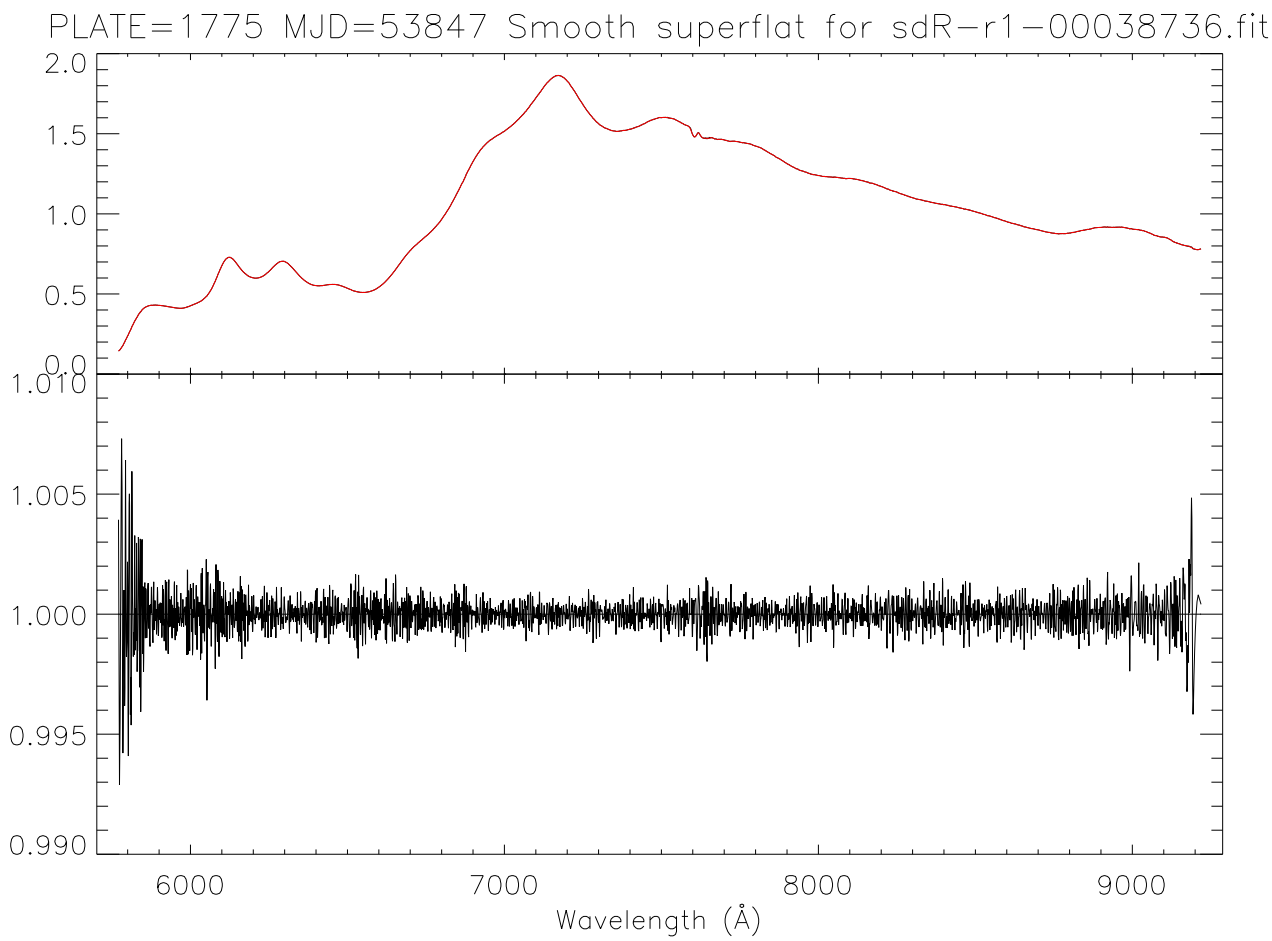

8885.8300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

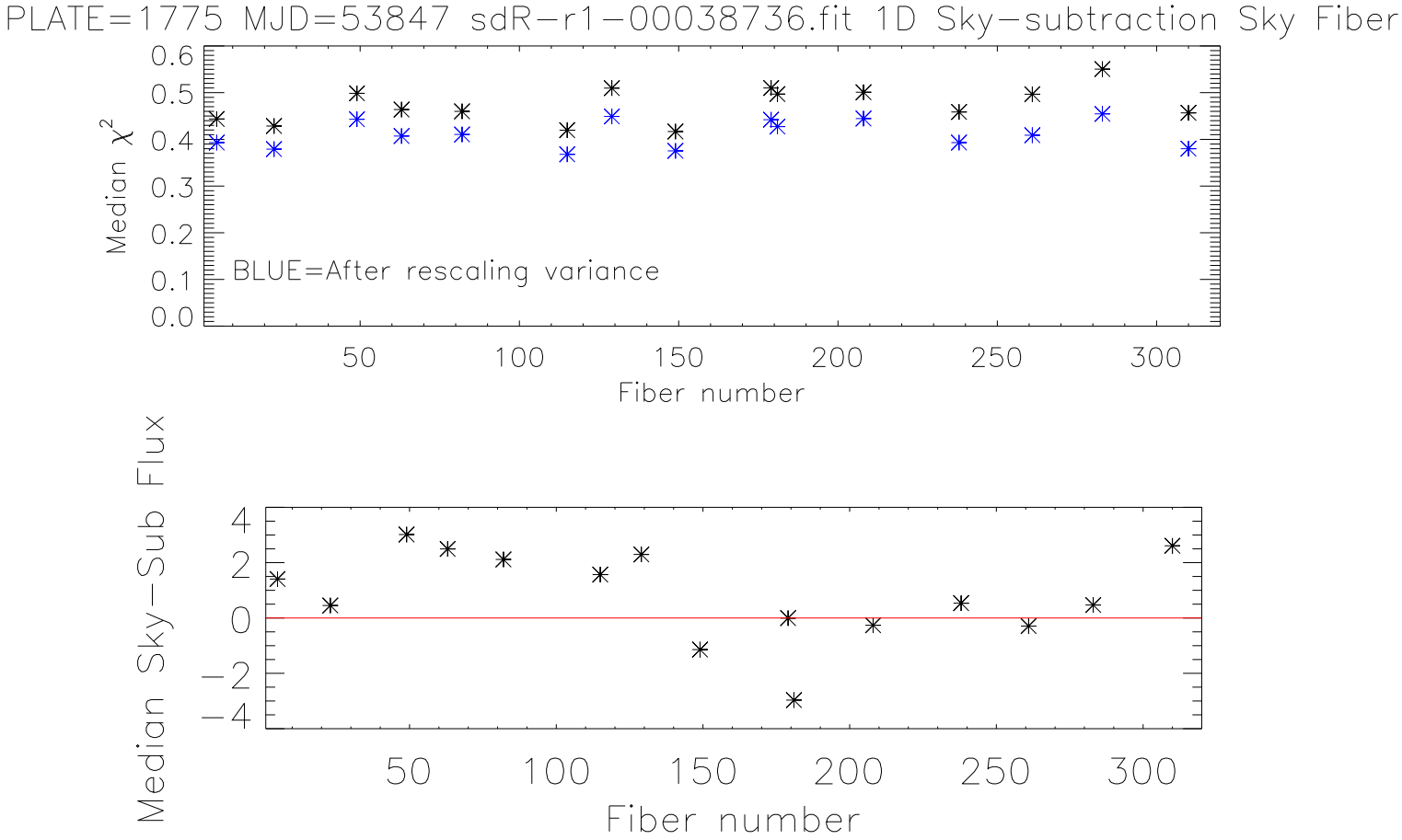

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

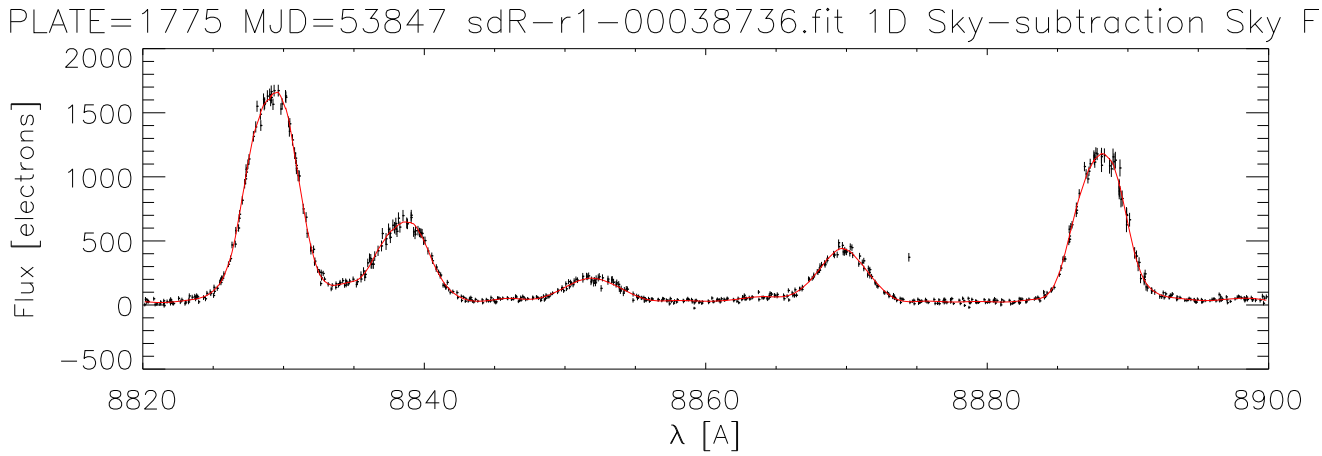

6300.3040
stdev 0.023
extra 0.042
6363.7760
stdev 0.041
extra 0.14
6553.6100
stdev 0.068
extra 0.11
6923.2100
stdev 0.054
extra 0.11
6949.0300
stdev 0.066
extra 0.05
7571.7500
stdev 0.038
extra 0.04
7794.1200
stdev 0.043
extra 0.17
7821.5100
stdev 0.033
extra 0.11
8399.1600
stdev 0.025
extra 0.07
8430.1700
stdev 0.032
extra 0.09
8885.8300
stdev 0.028
extra 0.05
8919.6100
stdev 0.026
extra 0.06
meas − pred, pix
mfib1 16
mfib2 16

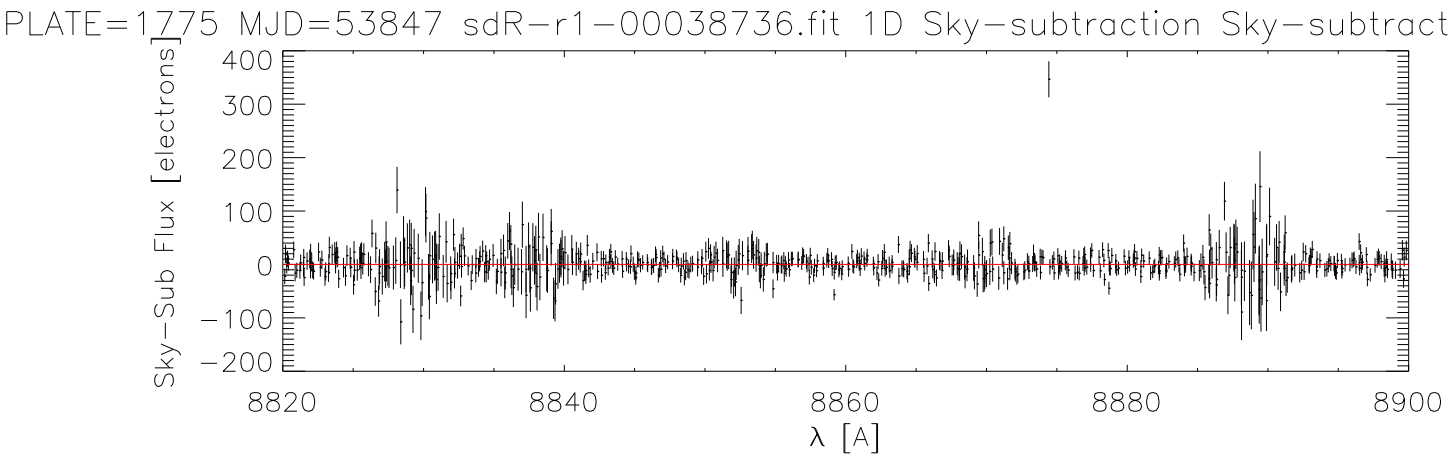

sky shift, pixels
−0.04
−0.06
−0.08
−0.10
−0.12
−0.14
−0.16
5000
6000
7000
8000
9000
10000

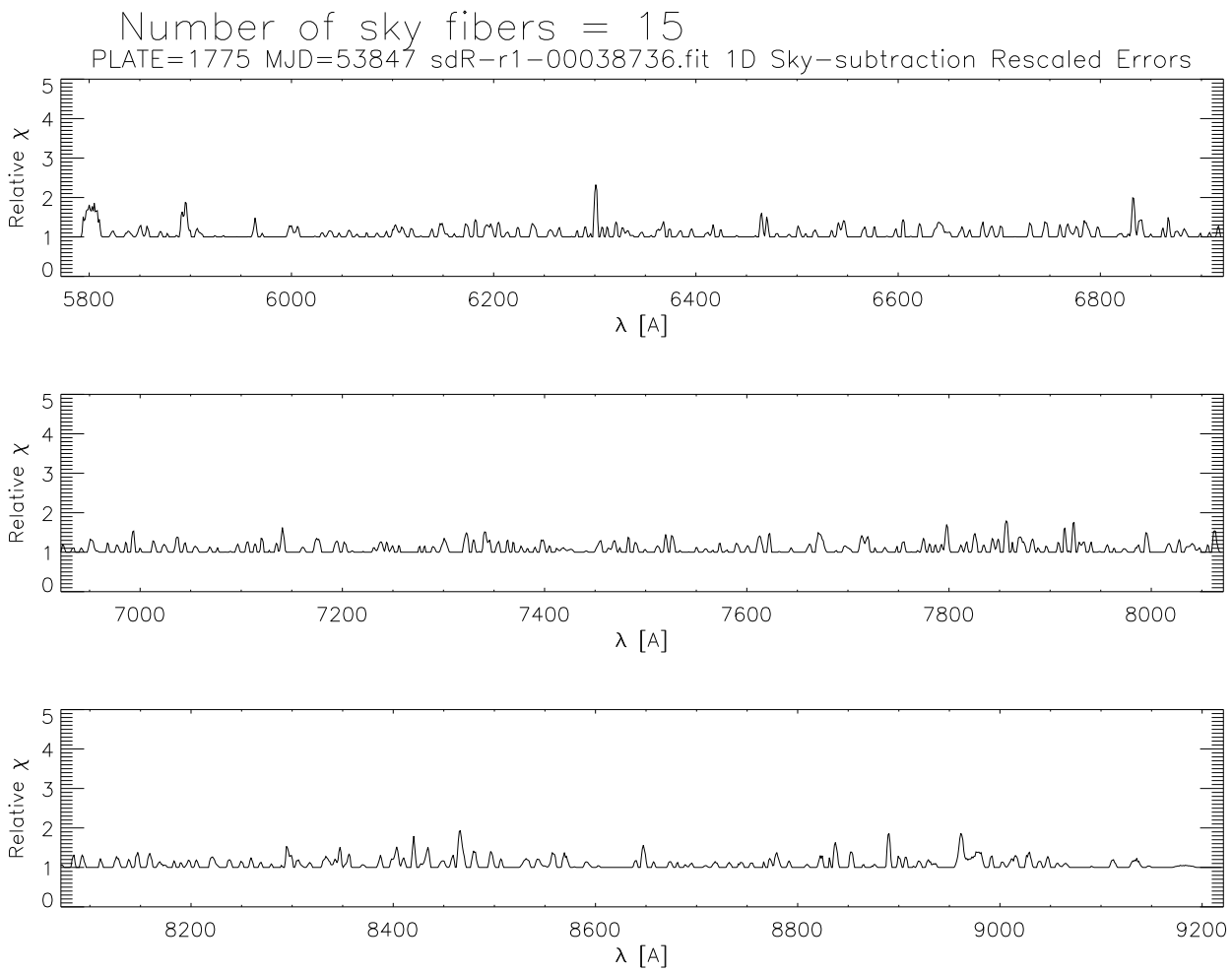
es= 0.0000

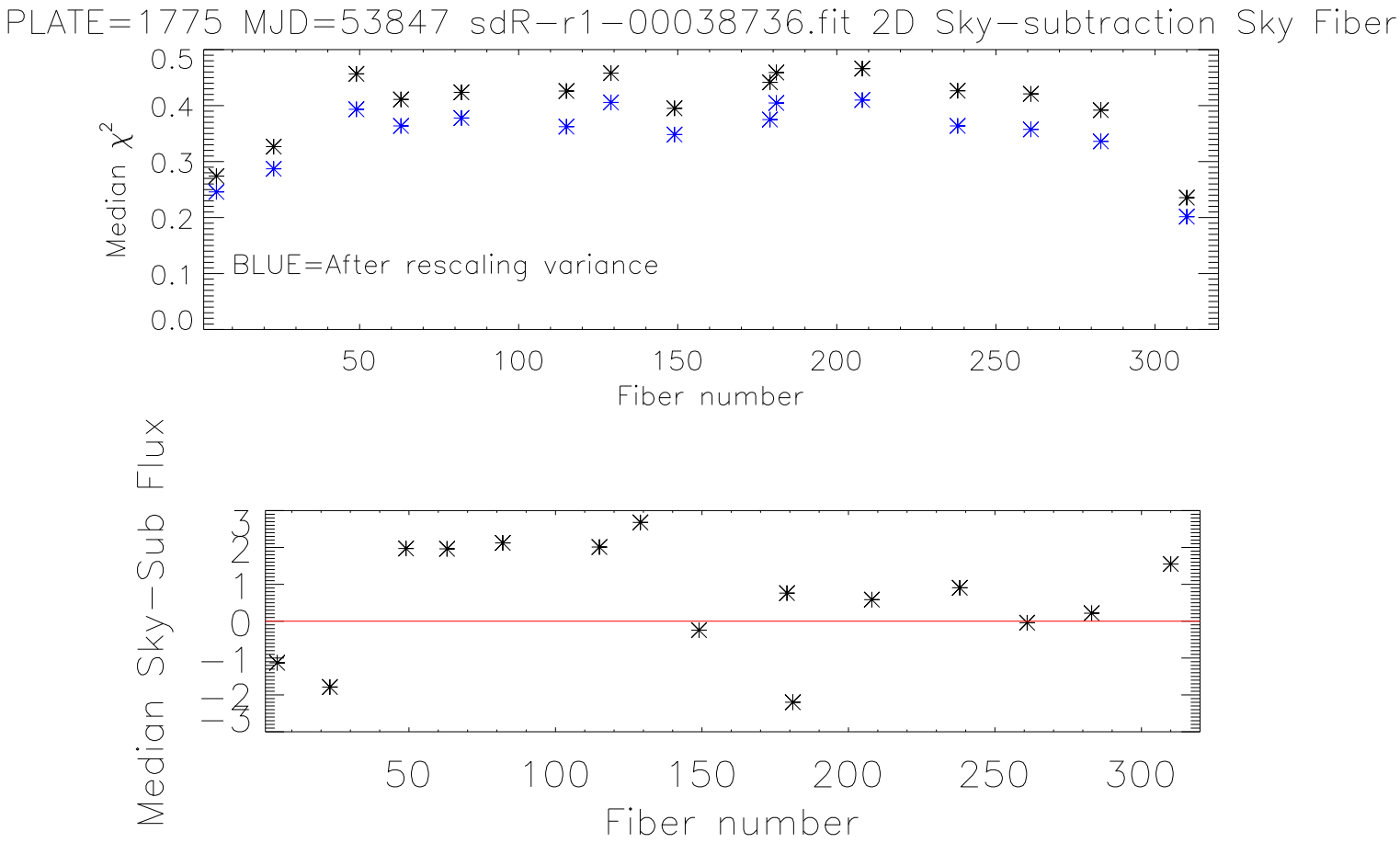

PLATE=1775 MJD=53847 Smooth superflat for sdR-r1-00038736.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

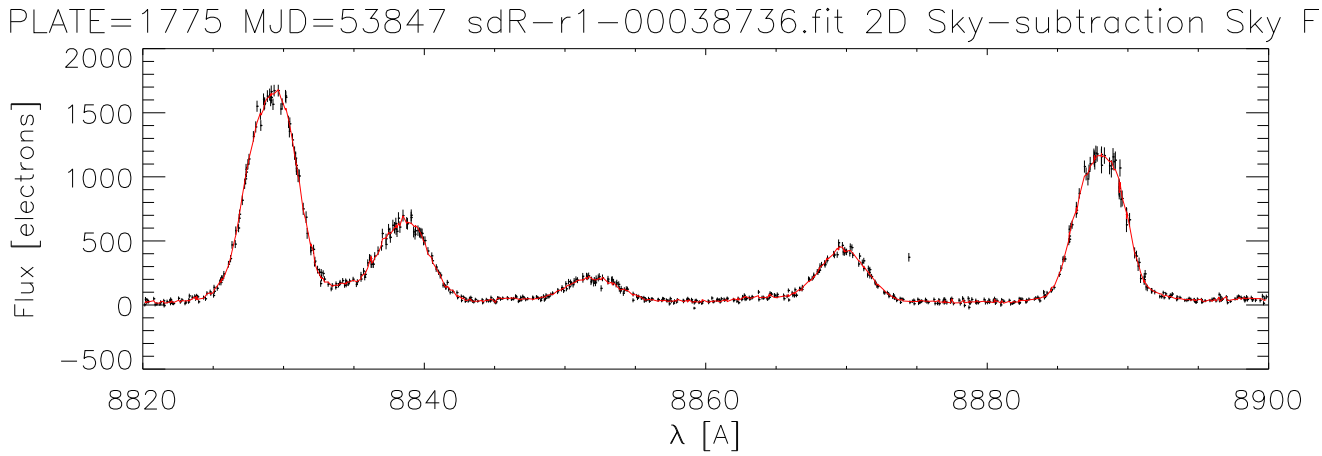

PLATE=1775 MJD=53847 sdR-r1-00038736.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

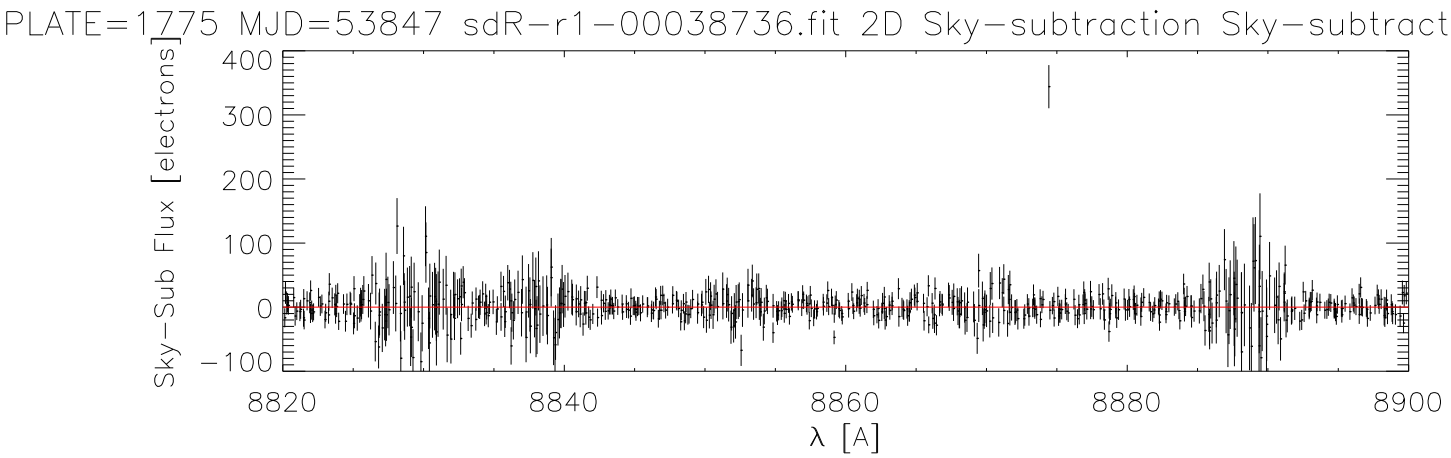

PLATE=1775 MJD=53847 sdR-r1-00038736.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

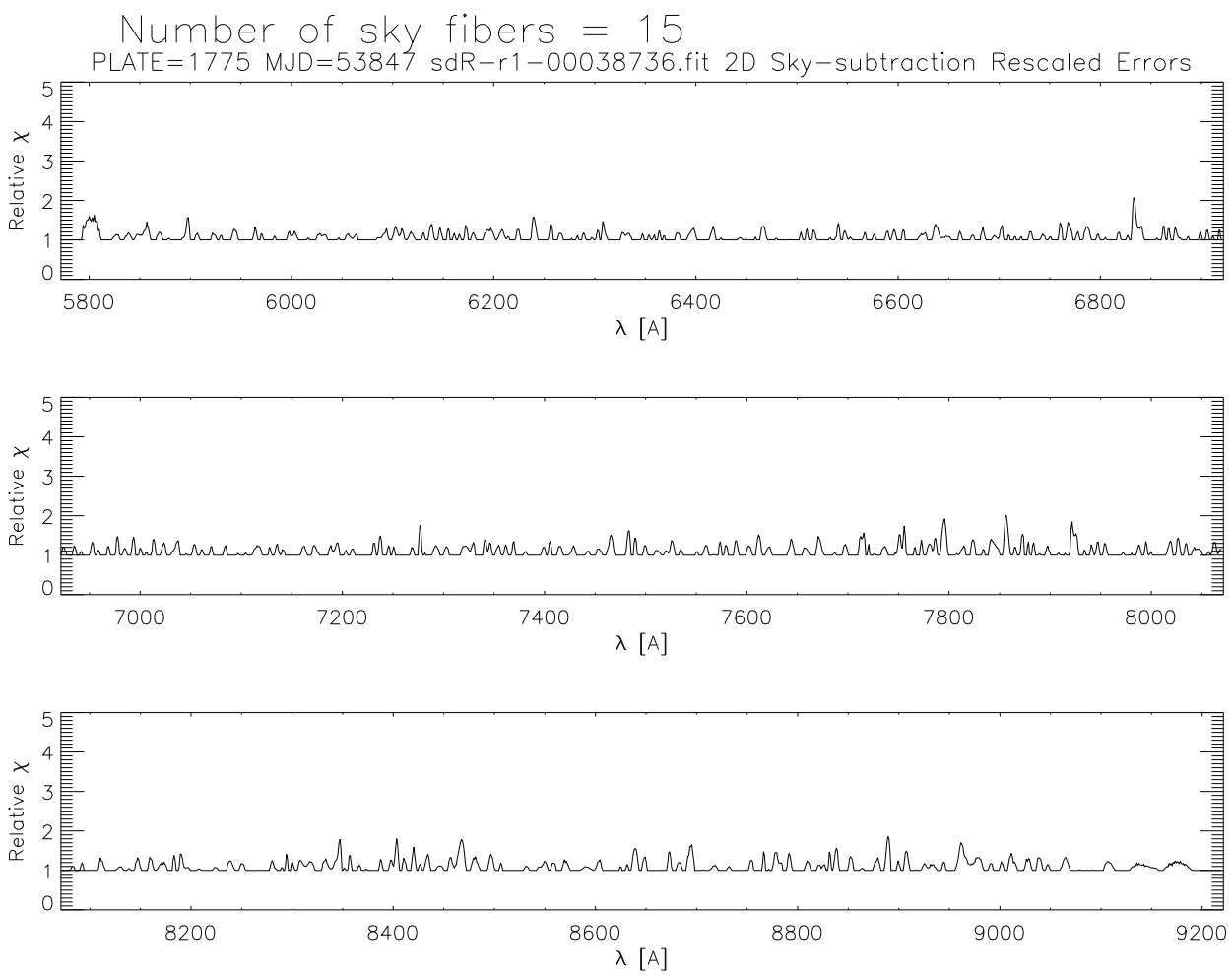

PLATE=1775 MJD=53847 sdR-r1-00038736.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

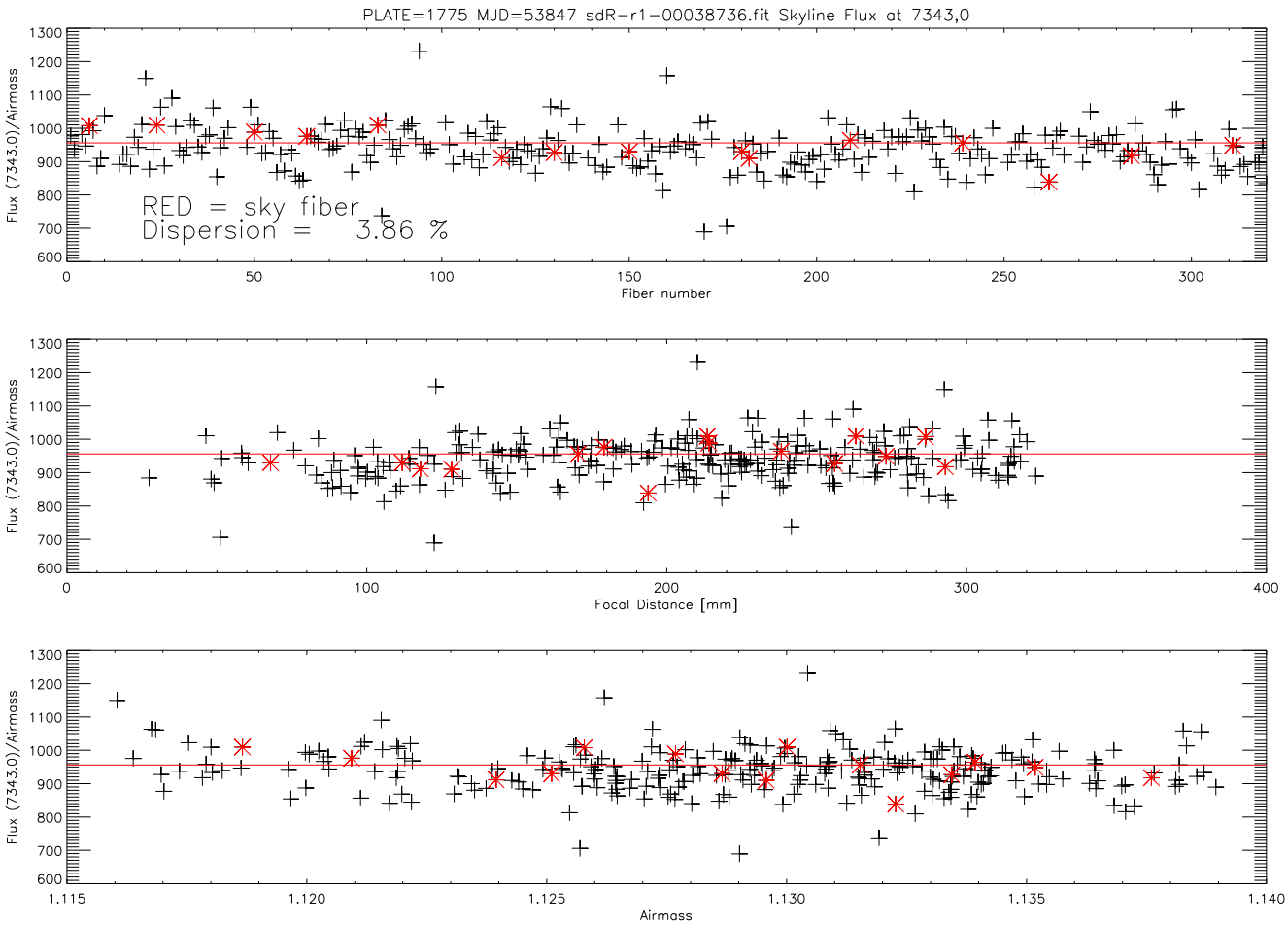

Number of sky fibers = 15
PLATE=1775 MJD=53847 sdR-r1-00038736.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

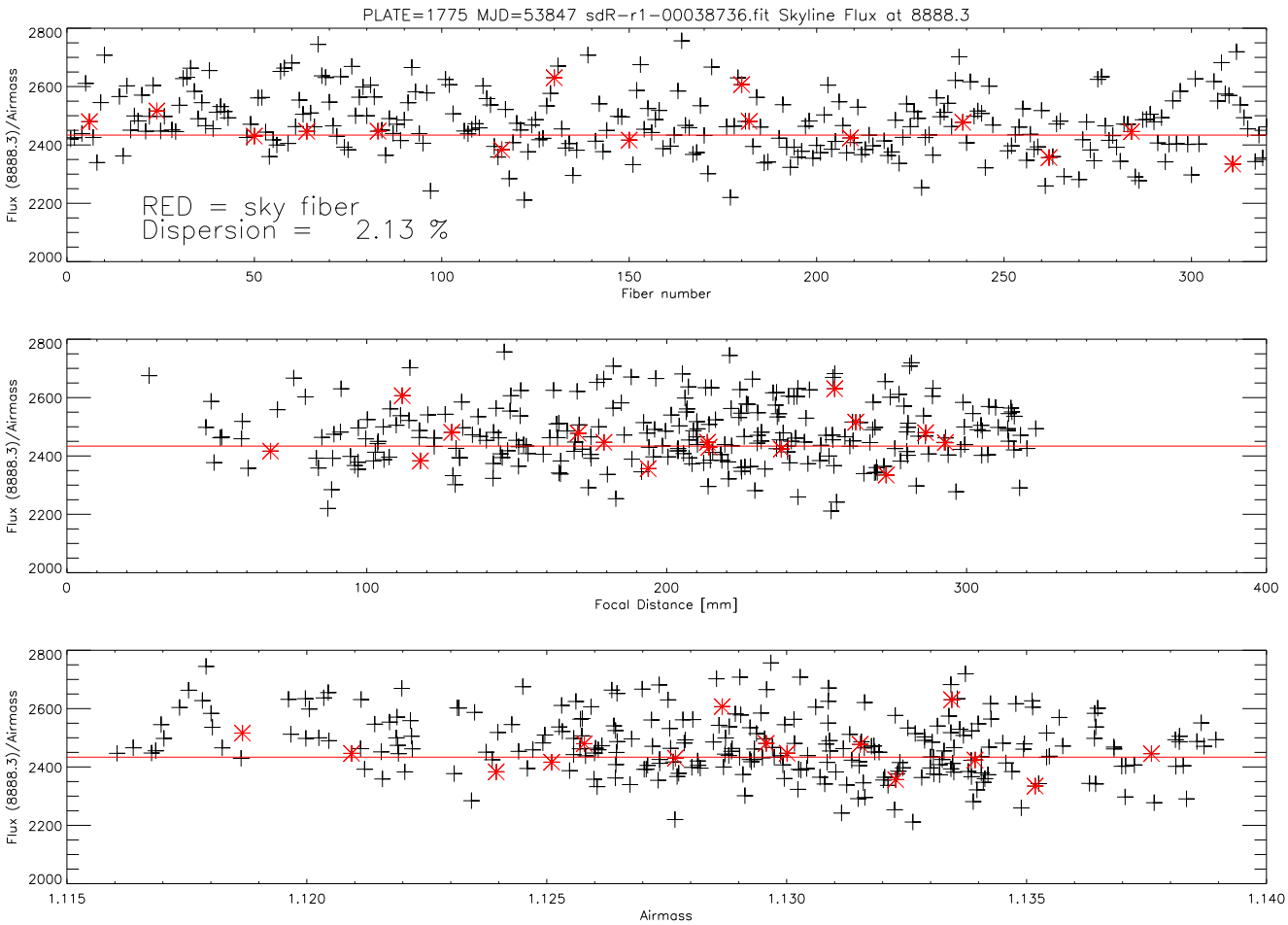

PLATE=1775 MJD=53847 sdR-r1-00038736.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

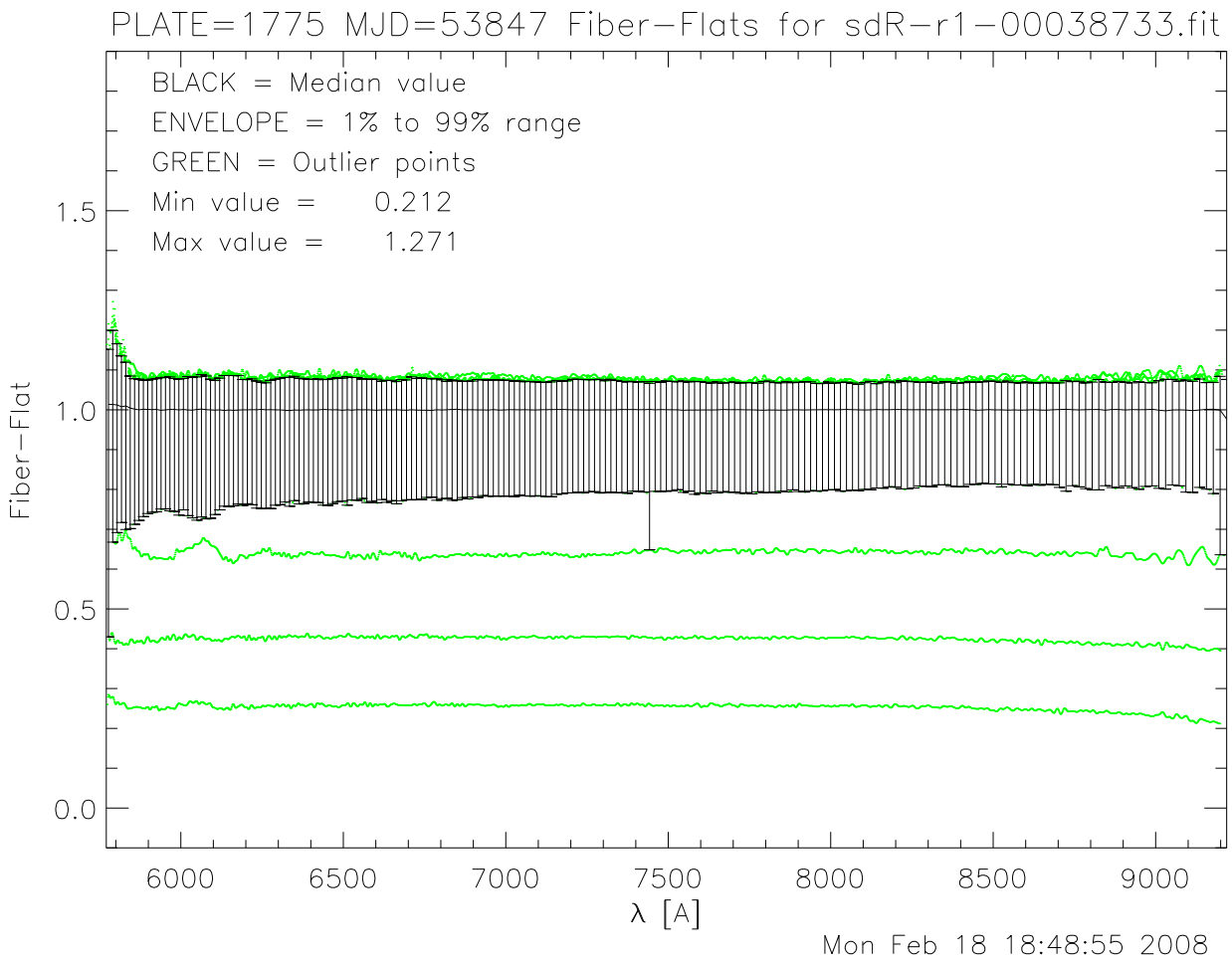

PLATE=1775 MJD=53847 sdR-r1-00038736.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

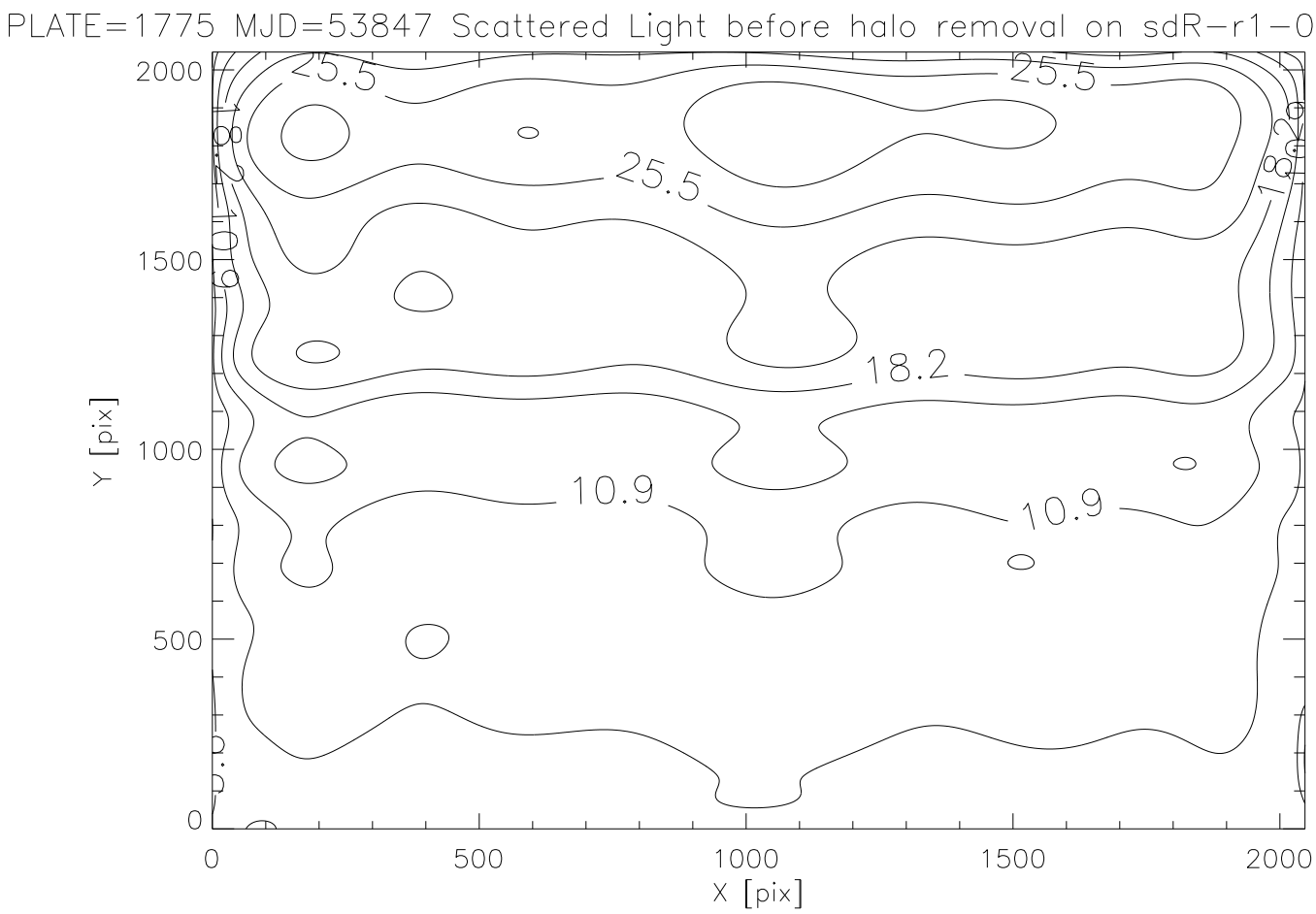

PLATE=1775 MJD=53847 sdR-r1-00038736.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
300
200
100
0
-100
8820
8840
8860
8880
8900
λ [A]

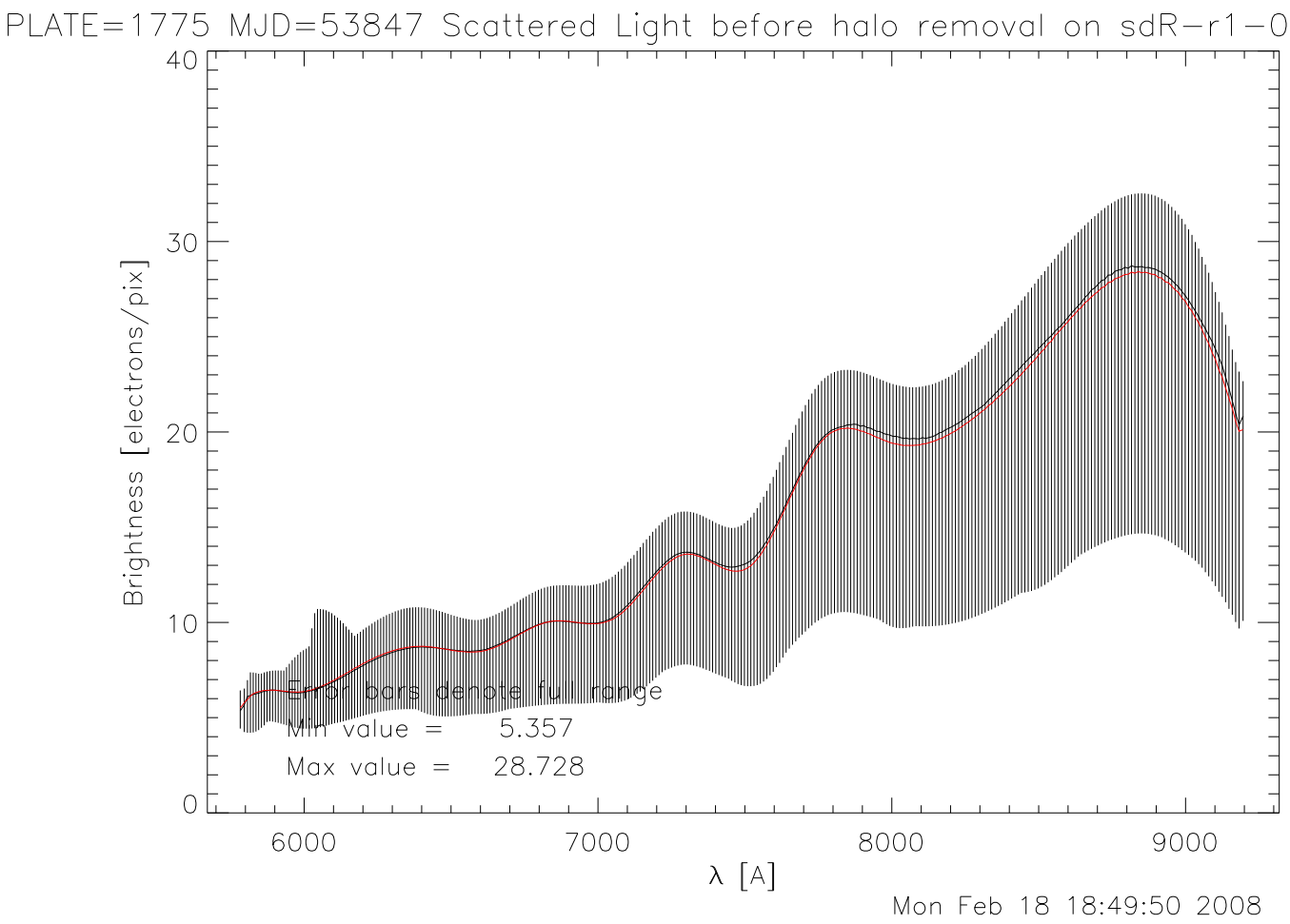

Number of sky fibers = 15
PLATE=1775 MJD=53847 sdR-r1-00038736.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

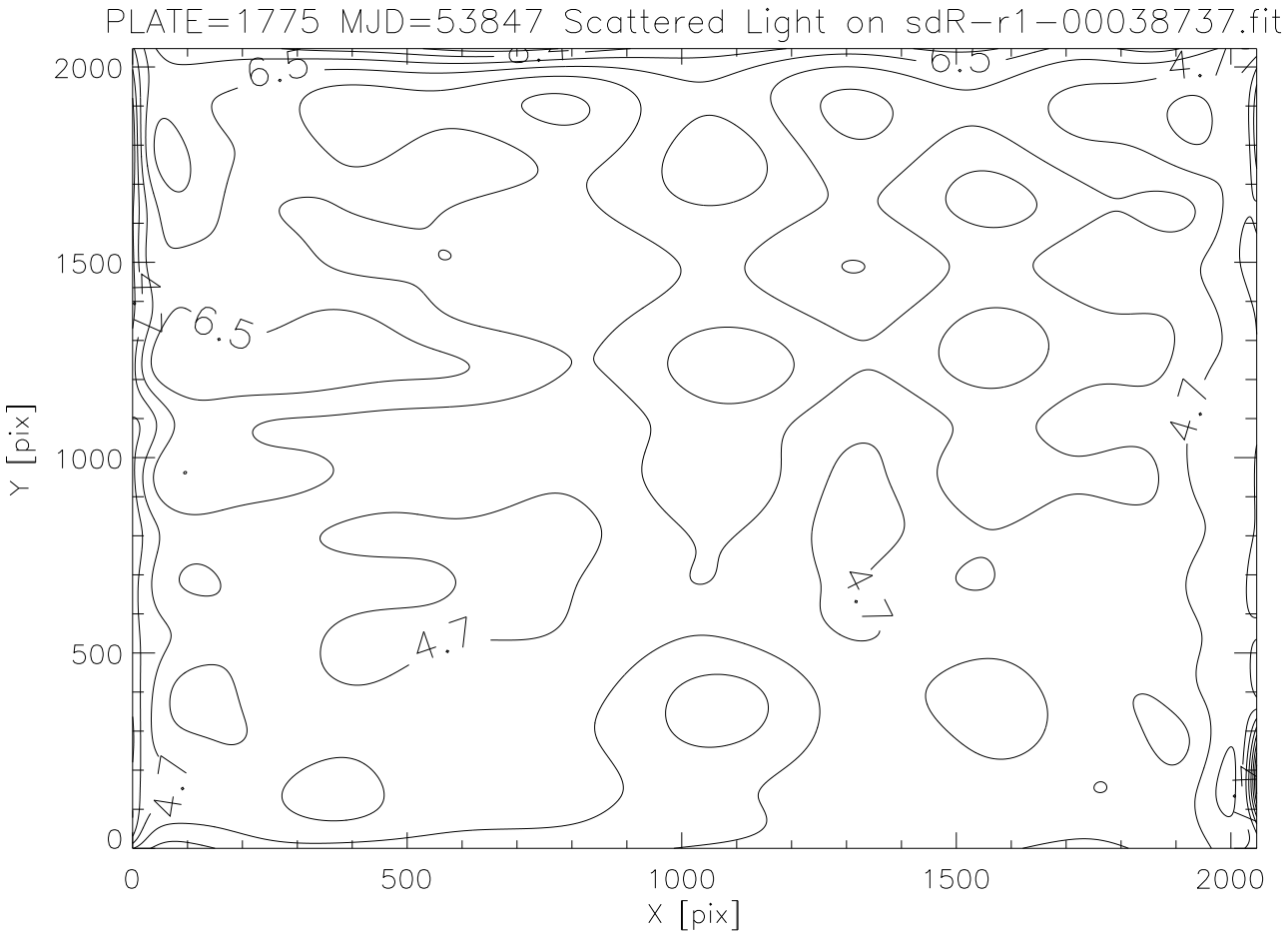

PLATE=1775 MJD=53847 sdR-r1-00038736.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.86 %
Fiber number
Focal Distance [mm]
Airmass

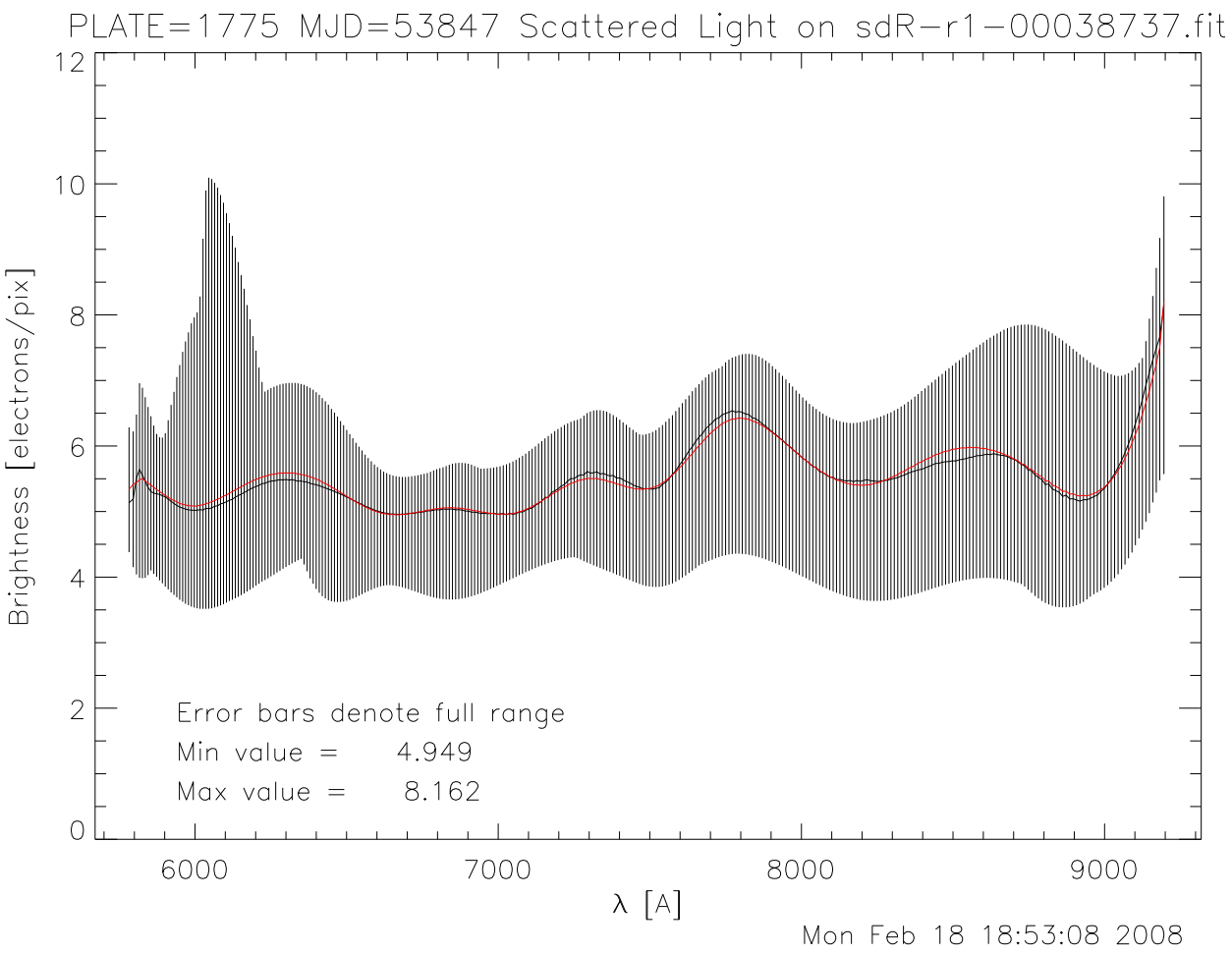

PLATE=1775 MJD=53847 sdR-r1-00038736.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.13 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

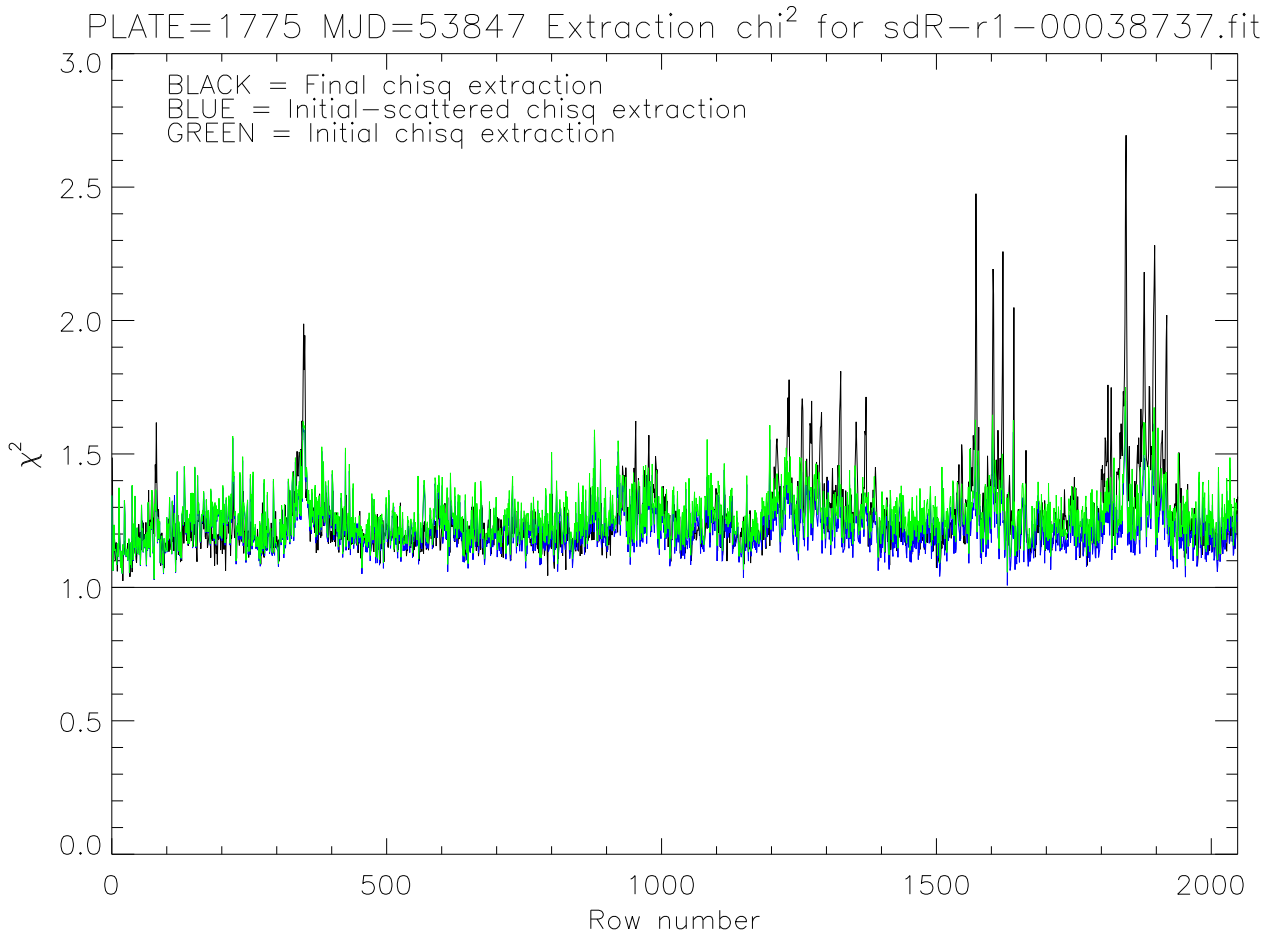

PLATE=1775 MJD=53847 Fiber−Flats for sdR−r1−00038733.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.212
Max value = 1.271
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 18 18:48:55 2008

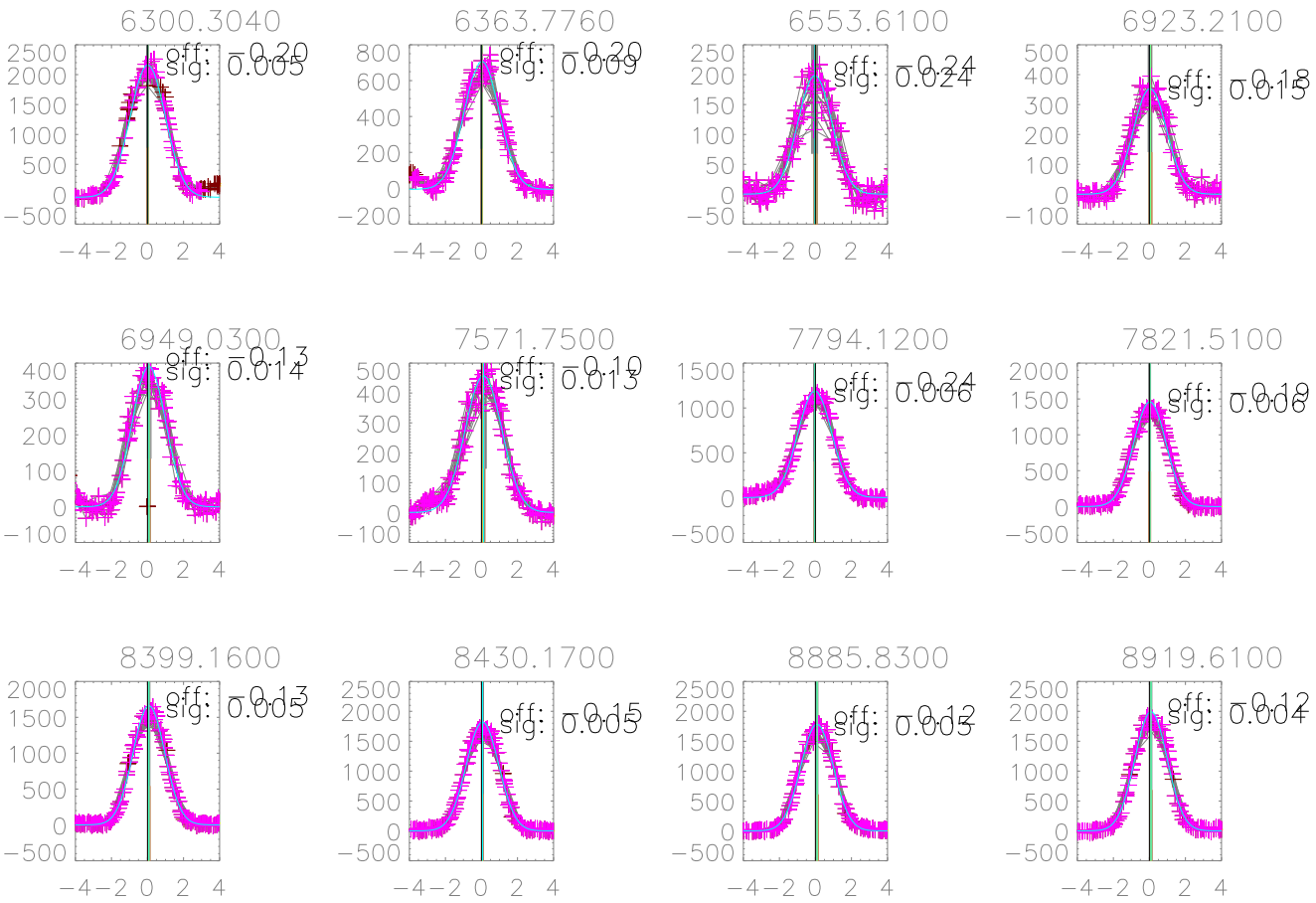

PLATE=1775 MJD=53847 Scattered Light before halo removal on sdR-r1-00038737.fi
25.5
25.5
25.5
18.2
18.2
18.2
10.9
10.9
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

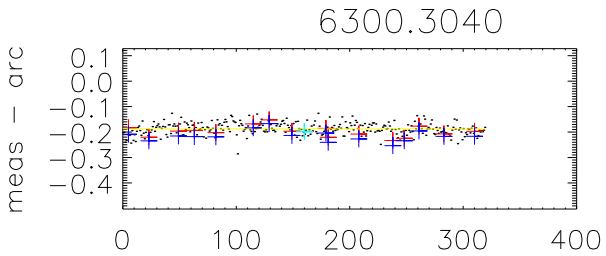

PLATE=1775 MJD=53847 Scattered Light before halo removal on sdR-r1-00038737.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.357
Max value = 28.728
Mon Feb 18 18:49:50 2008

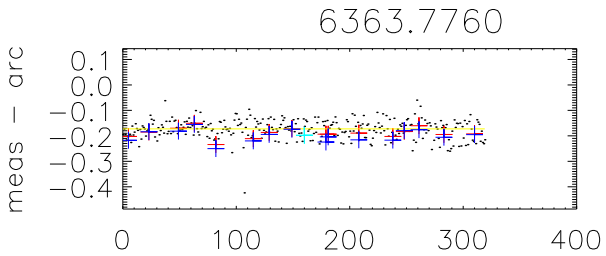

PLATE=1775 MJD=53847 Scattered Light on sdR−r1−00038737.fit
6.5
6.5
6.5
4.7
4.7
4.7
4.7
4.7
4.7
Y [pix]
X [pix]
0
500
1000
1500
2000

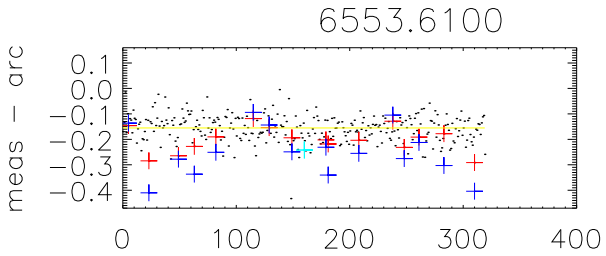

PLATE=1775 MJD=53847 Scattered Light on sdR-r1-00038737.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.949
Max value = 8.162
Mon Feb 18 18:53:08 2008

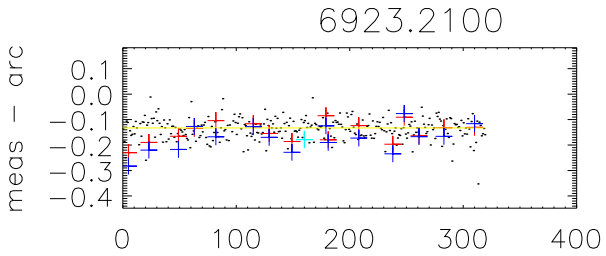

PLATE=1775 MJD=53847 Extraction chi^2 for sdR−r1−00038737.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

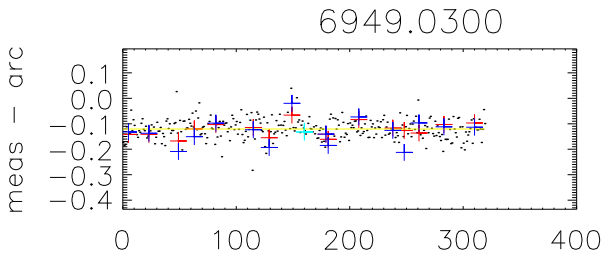

6300.3040
off: −0.20
sig: 0.005
6363.7760
off: −0.20
sig: 0.009
6553.6100
off: −0.24
sig: 0.024
6923.2100
off: −0.18
sig: 0.015
6949.0300
off: −0.13
sig: 0.014
7571.7500
off: −0.10
sig: 0.013
7794.1200
off: −0.24
sig: 0.006
7821.5100
off: −0.18
sig: 0.006
8399.1600
off: −0.13
sig: 0.005
8430.1700
off: −0.15
sig: 0.005
8885.8300
off: −0.12
sig: 0.003
8919.6100
off: −0.12
sig: 0.004

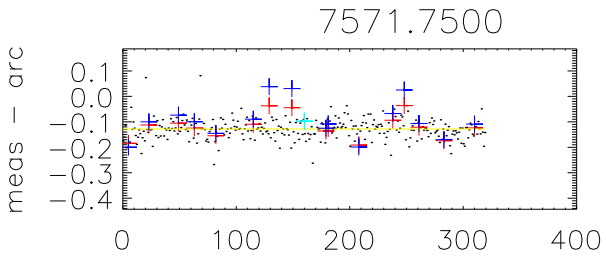

6300.3040
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

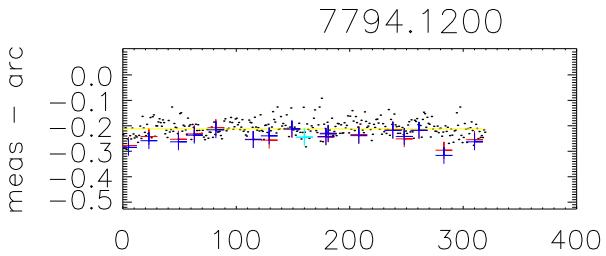

6363.7760
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

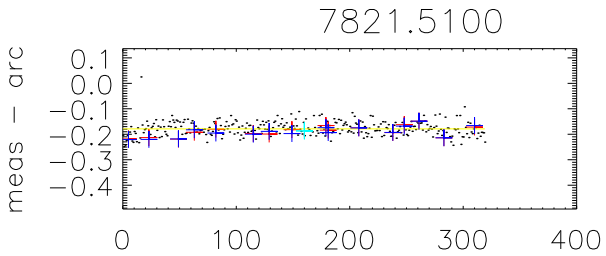

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

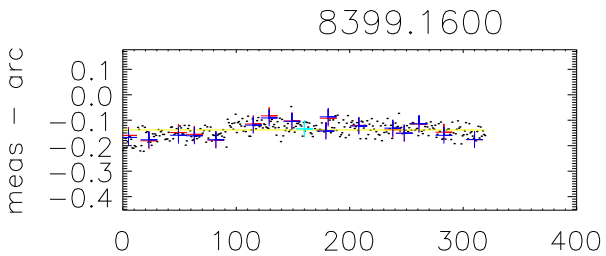

6923.2100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

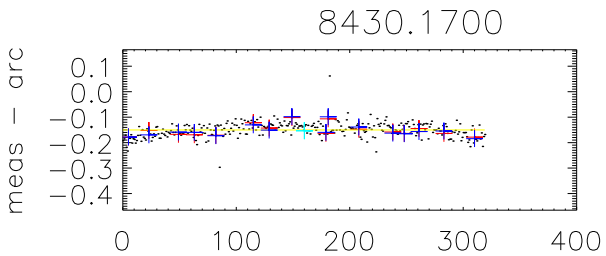

6949.0300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

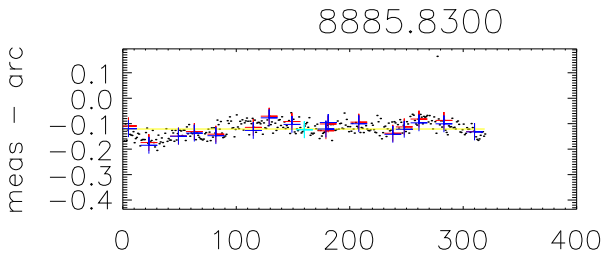

7571.7500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

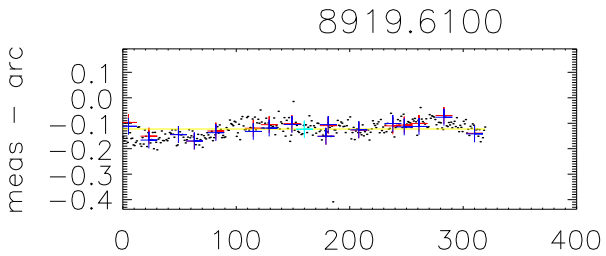

7794.1200
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

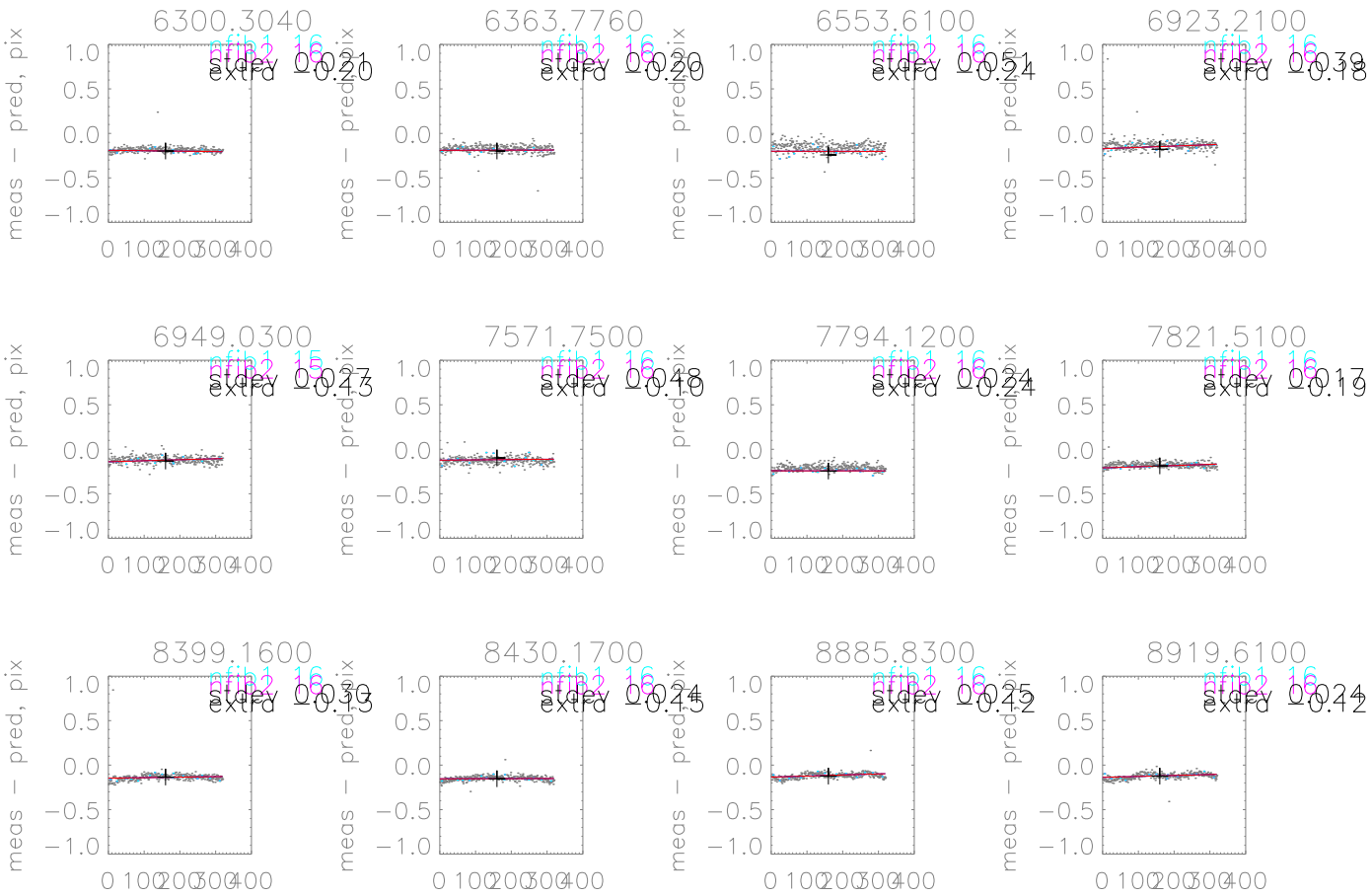

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

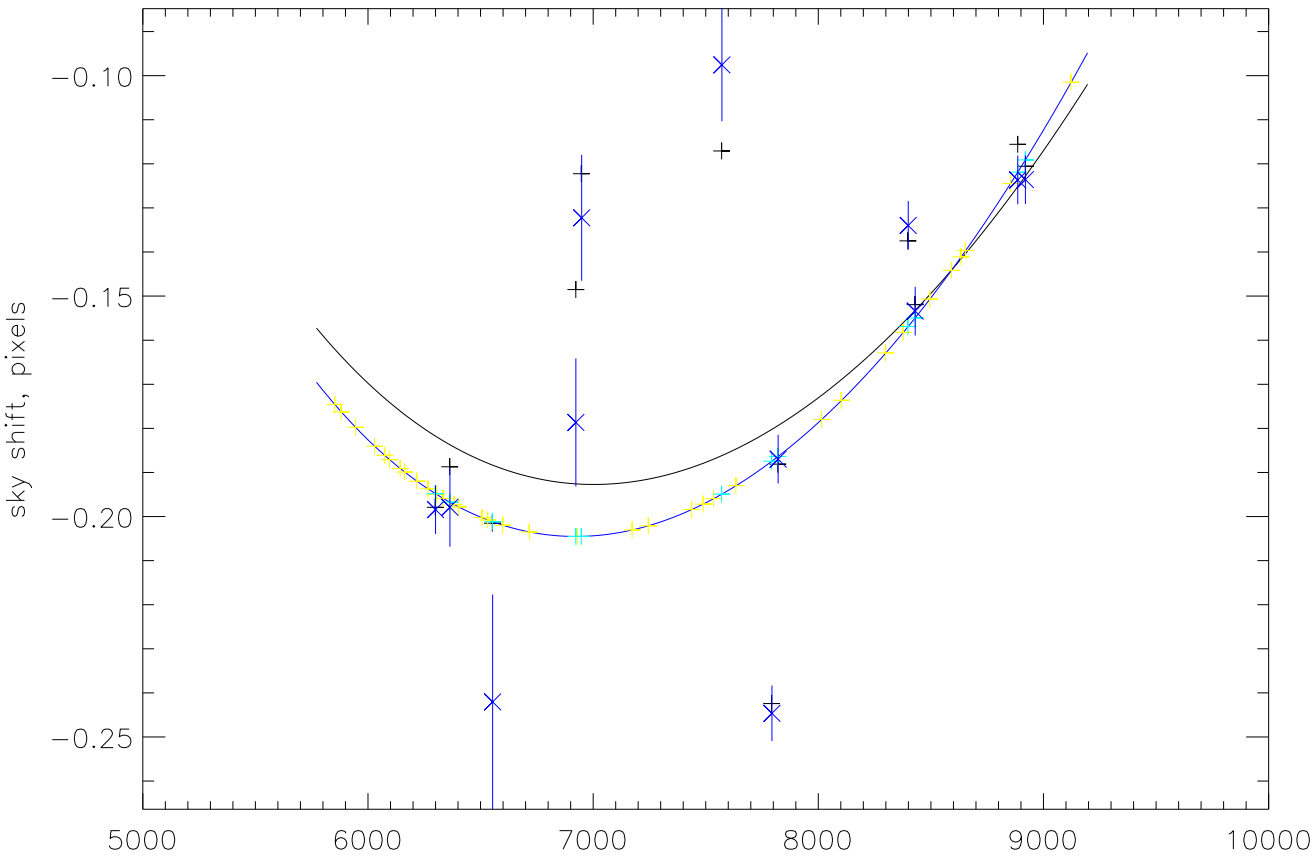

8399.1600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

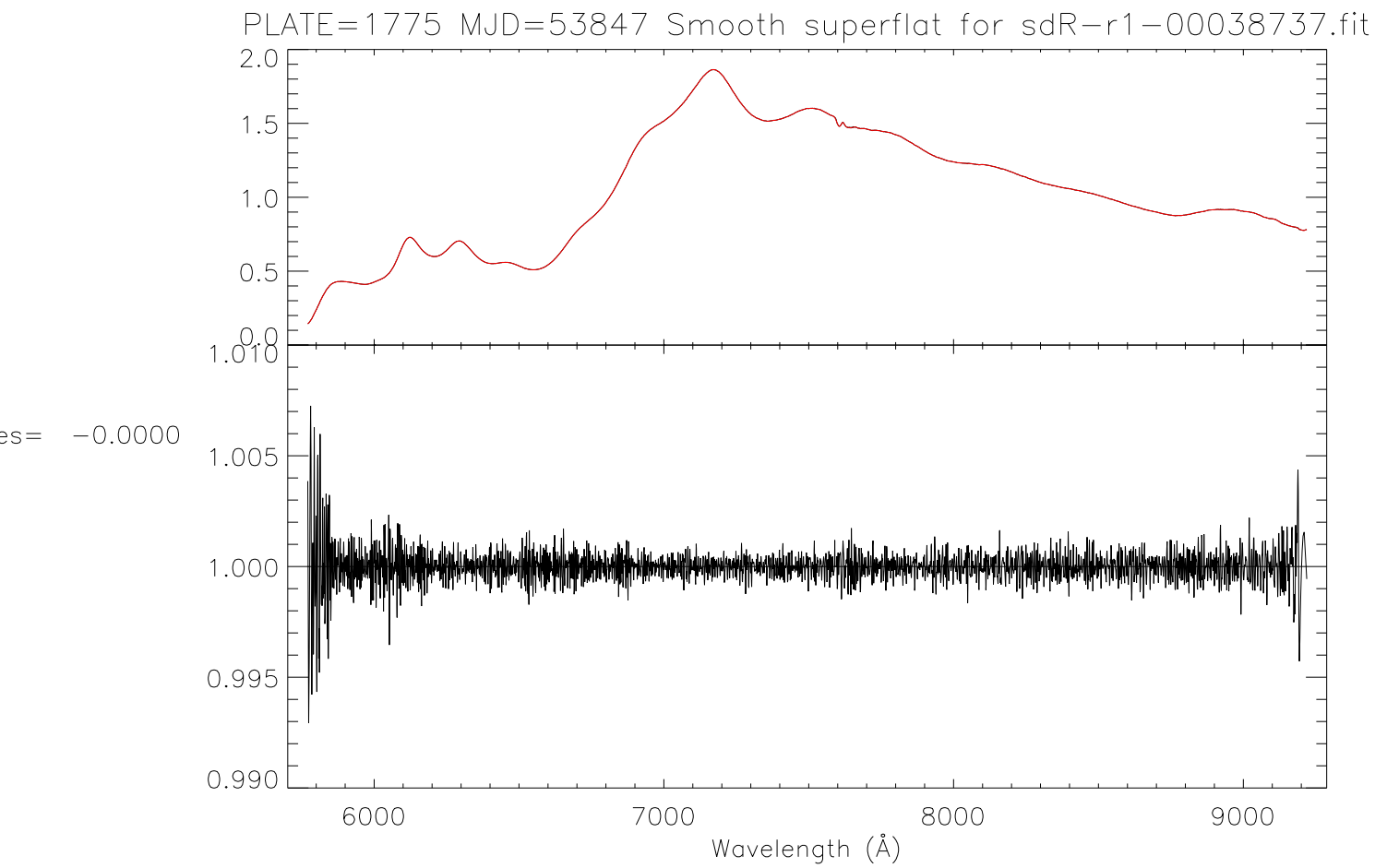

8430.1700
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

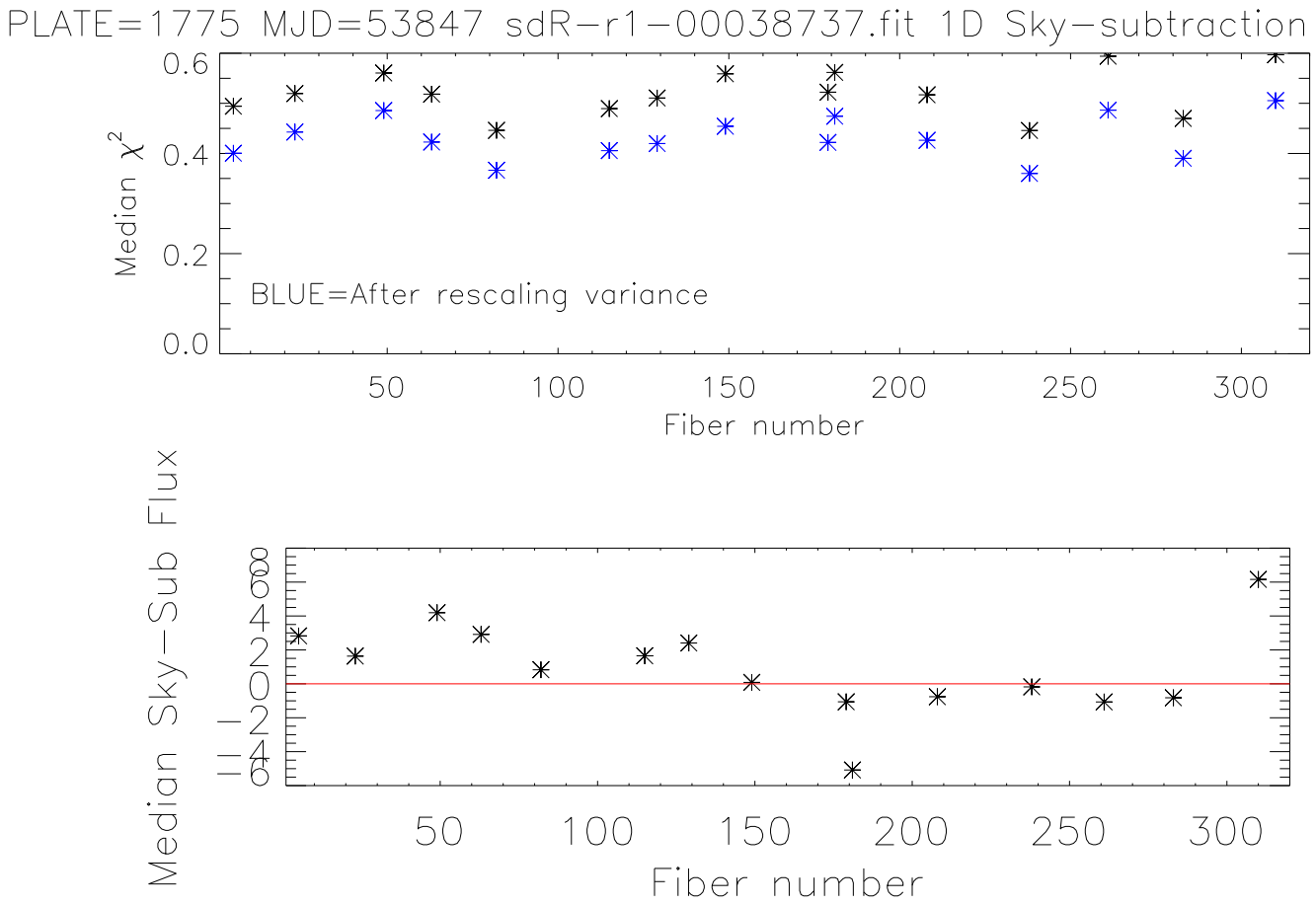

8885.8300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

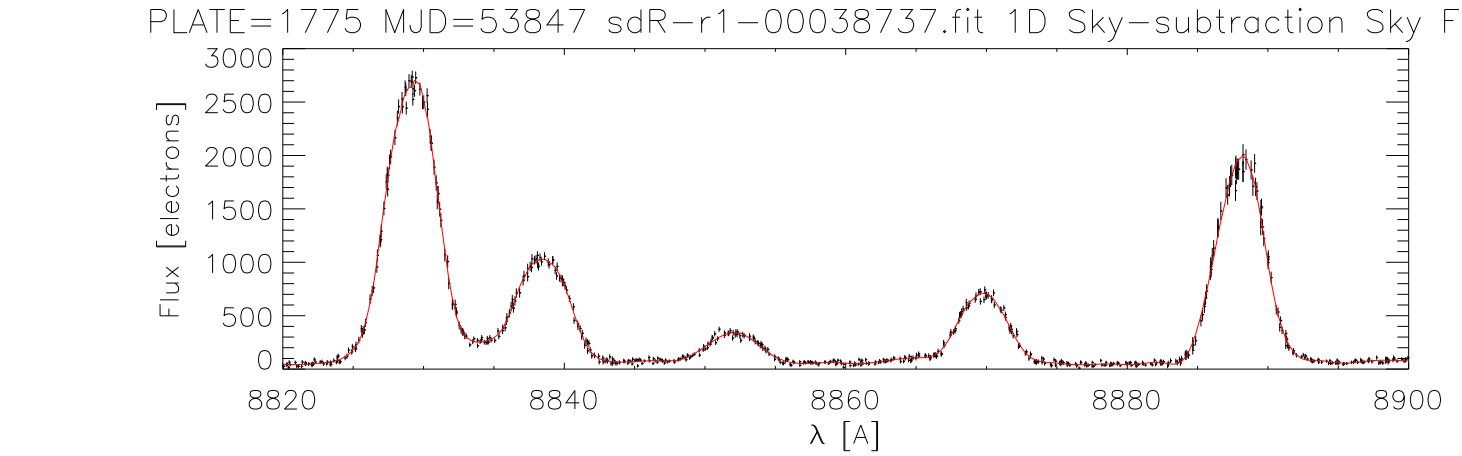

8919.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

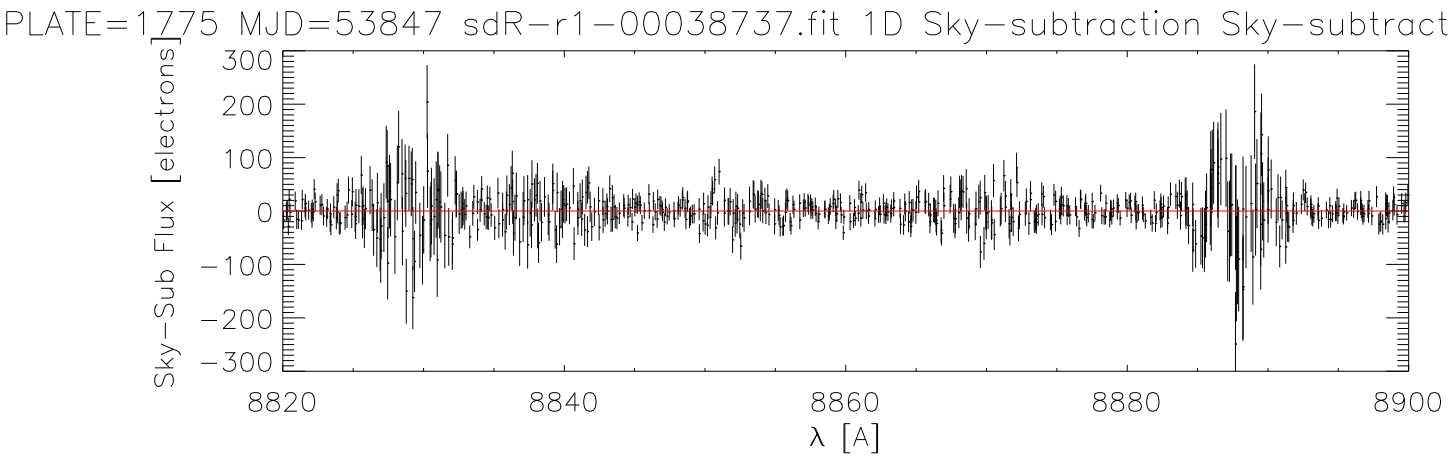

6300.3040
mfhd1 16
mfhd2 16
stdev 0.21
extra 0.20
6363.7760
mfhd1 16
mfhd2 16
stdev 0.20
extra 0.20
6553.6100
mfhd1 16
mfhd2 16
stdev 0.24
extra 0.24
6923.2100
mfhd1 16
mfhd2 16
stdev 0.19
extra 0.18
6949.0300
mfhd1 15
mfhd2 16
stdev 0.27
extra 0.43
7571.7500
mfhd1 16
mfhd2 16
stdev 0.48
extra 0.10
7794.1200
mfhd1 16
mfhd2 16
stdev 0.24
extra 0.24
7821.5100
mfhd1 16
mfhd2 16
stdev 0.17
extra 0.19
8399.1600
mfhd1 16
mfhd2 16
stdev 0.30
extra 0.13
8430.1700
mfhd1 16
mfhd2 16
stdev 0.24
extra 0.45
8885.8300
mfhd1 16
mfhd2 16
stdev 0.25
extra 0.42
8919.6100
mfhd1 16
mfhd2 16
stdev 0.24
extra 0.42
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

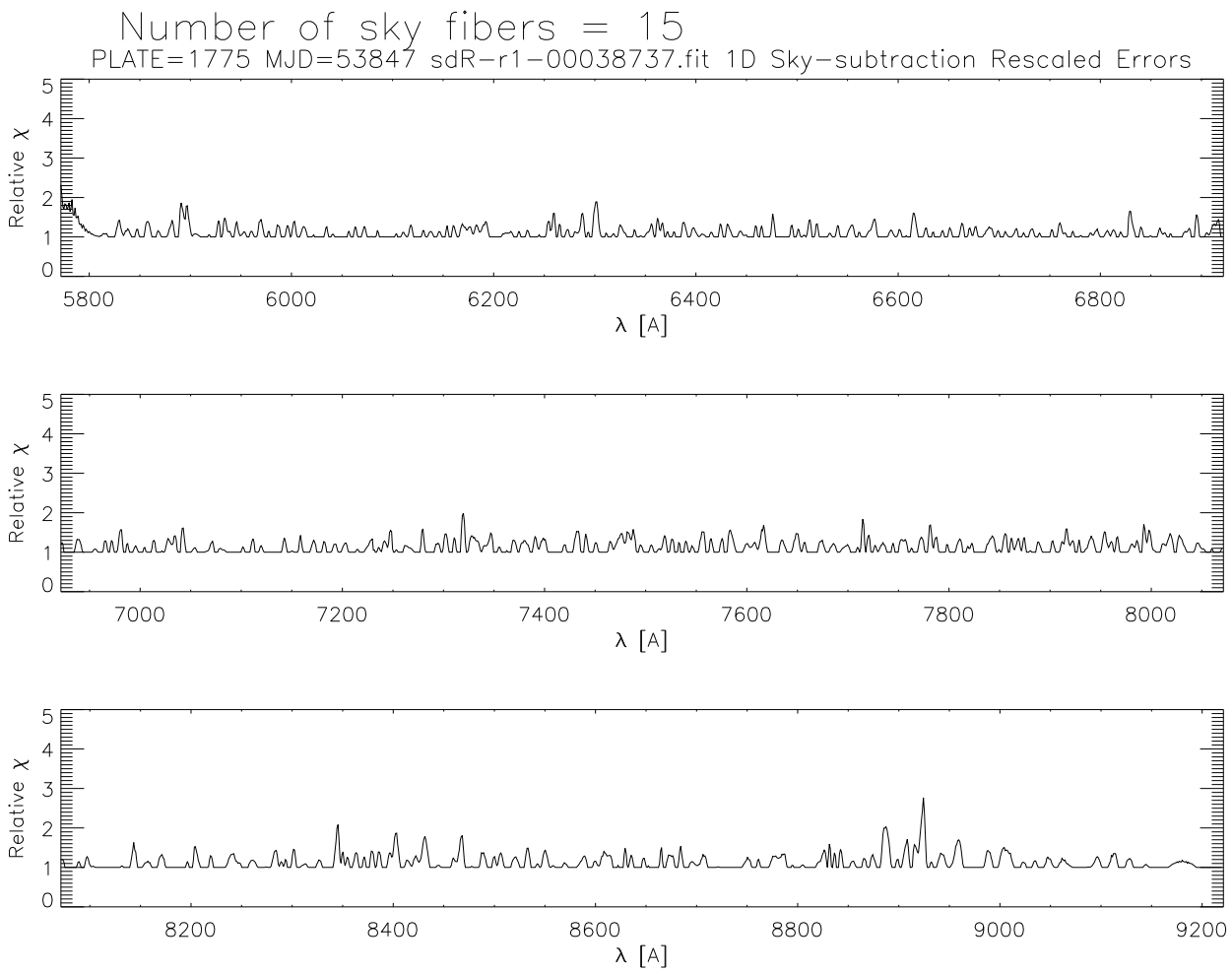

−0.10
−0.15
−0.20
−0.25
sky shift, pixels
5000
6000
7000
8000
9000
10000

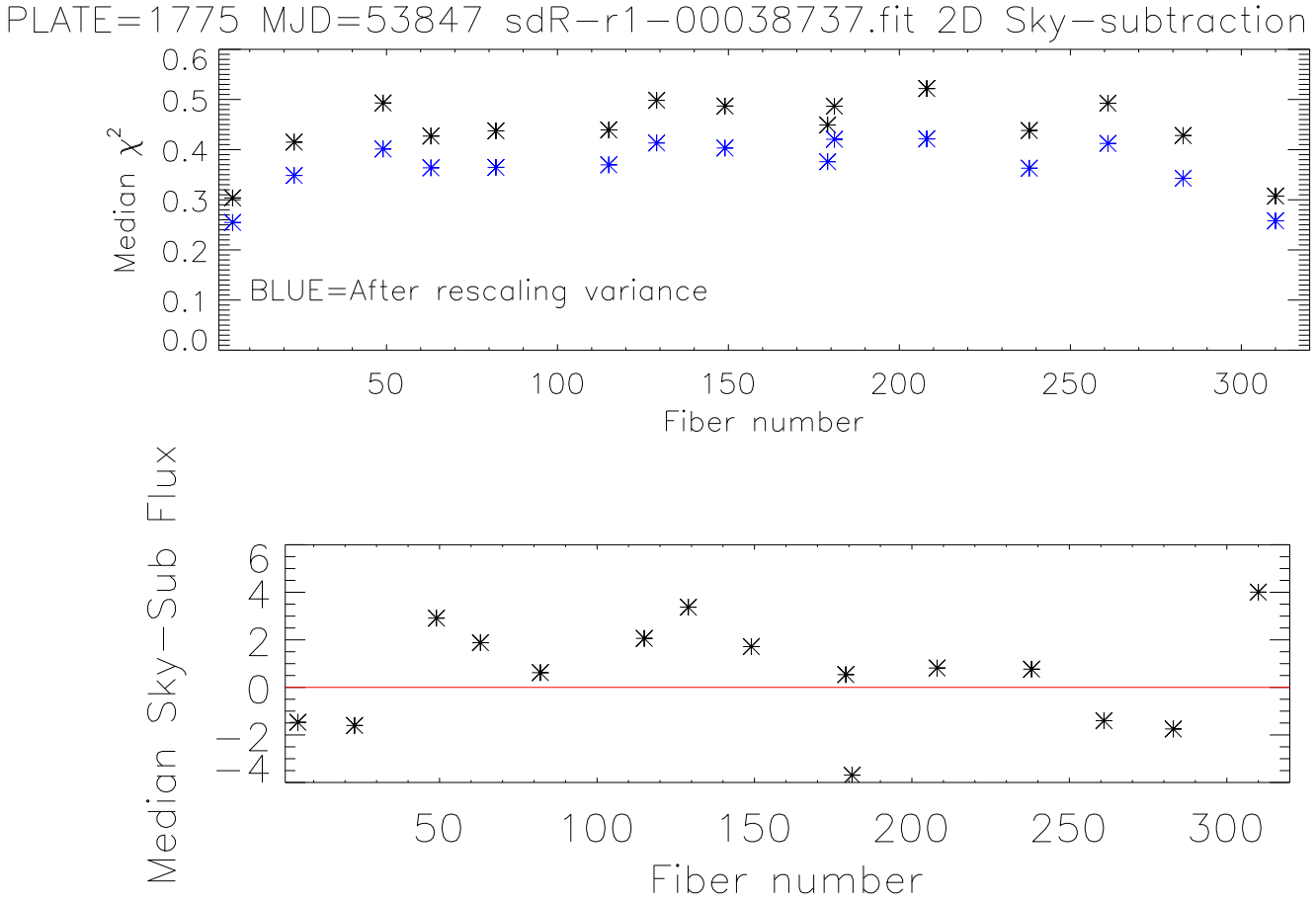

PLATE=1775 MJD=53847 Smooth superflat for sdR-r1-00038737.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= -0.0000
6000
7000
8000
9000
Wavelength (Å)

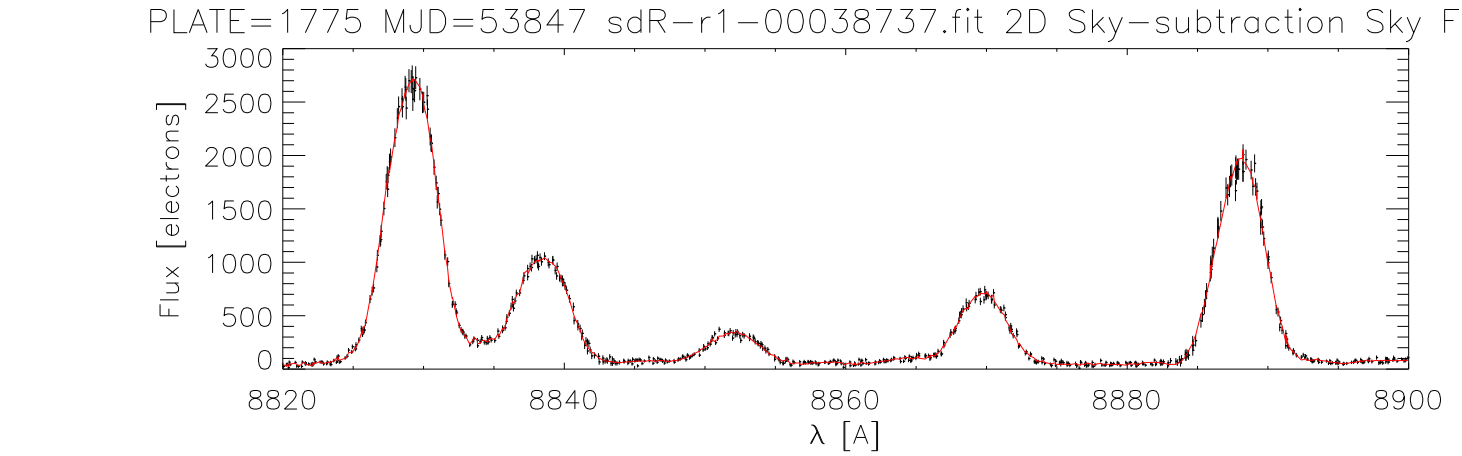

PLATE=1775 MJD=53847 sdR-r1-00038737.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-11
-6
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

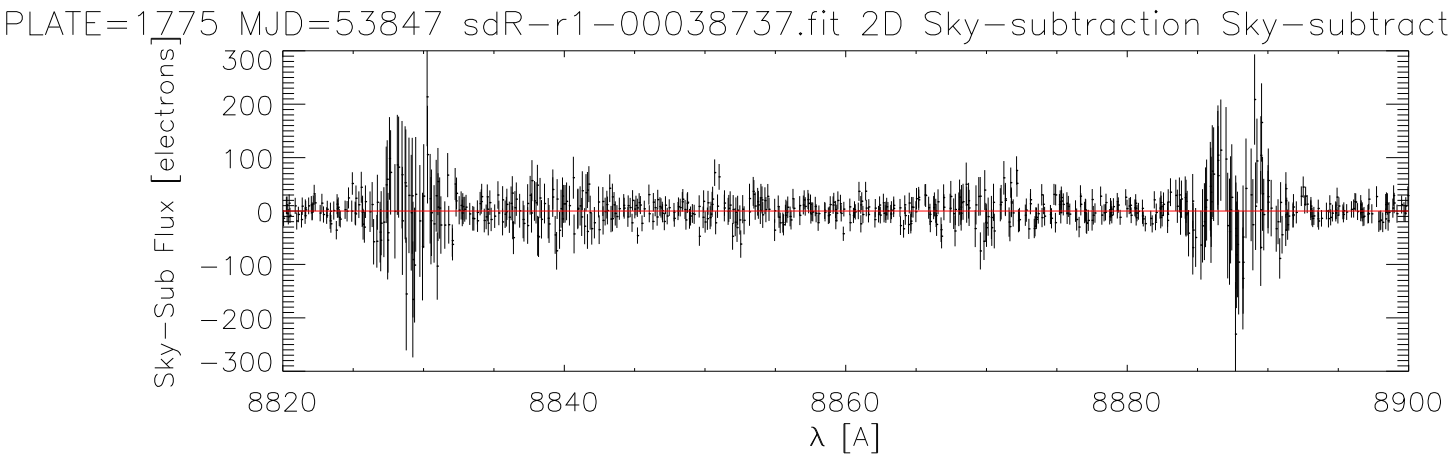

PLATE=1775 MJD=53847 sdR-r1-00038737.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

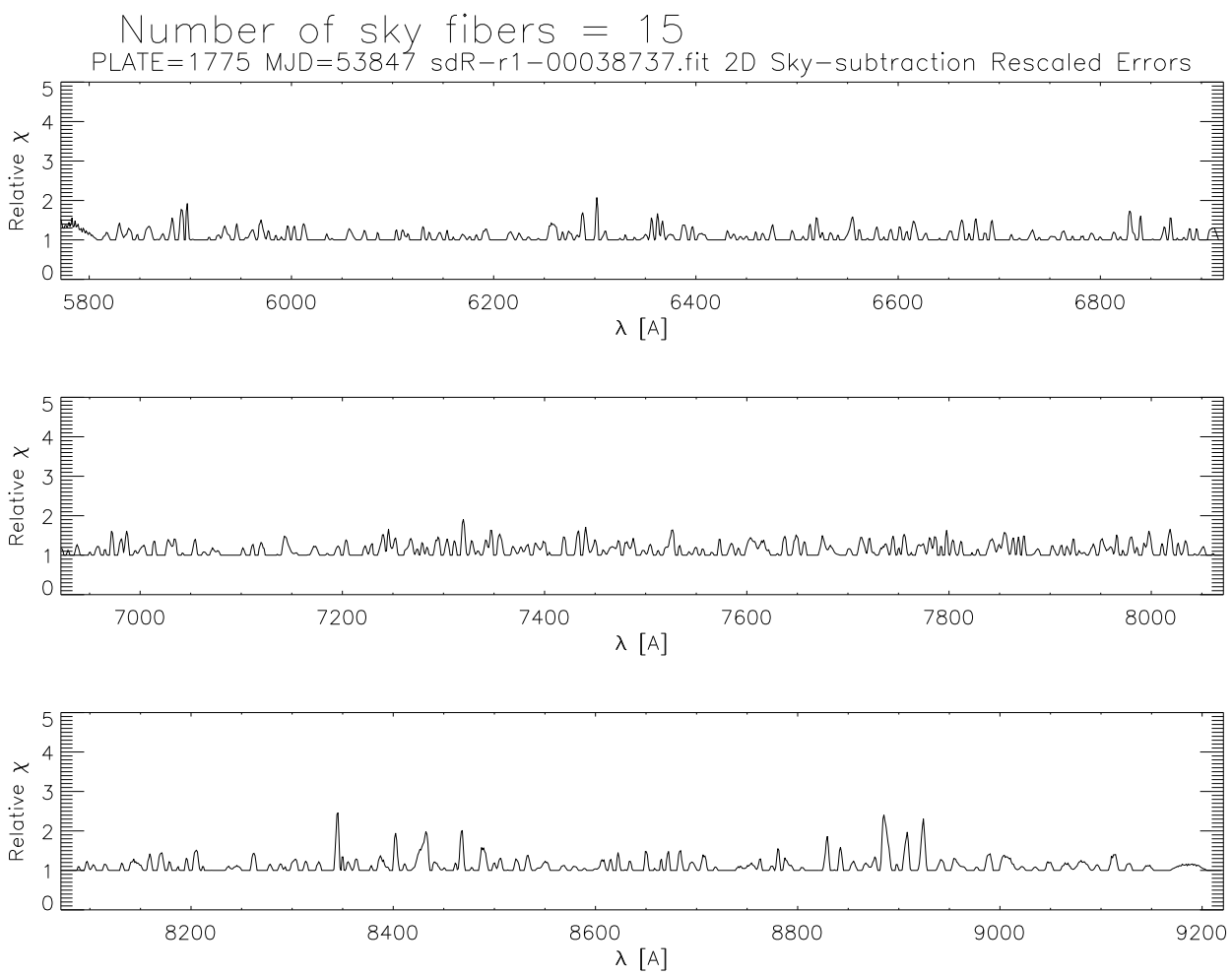

PLATE=1775 MJD=53847 sdR-r1-00038737.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

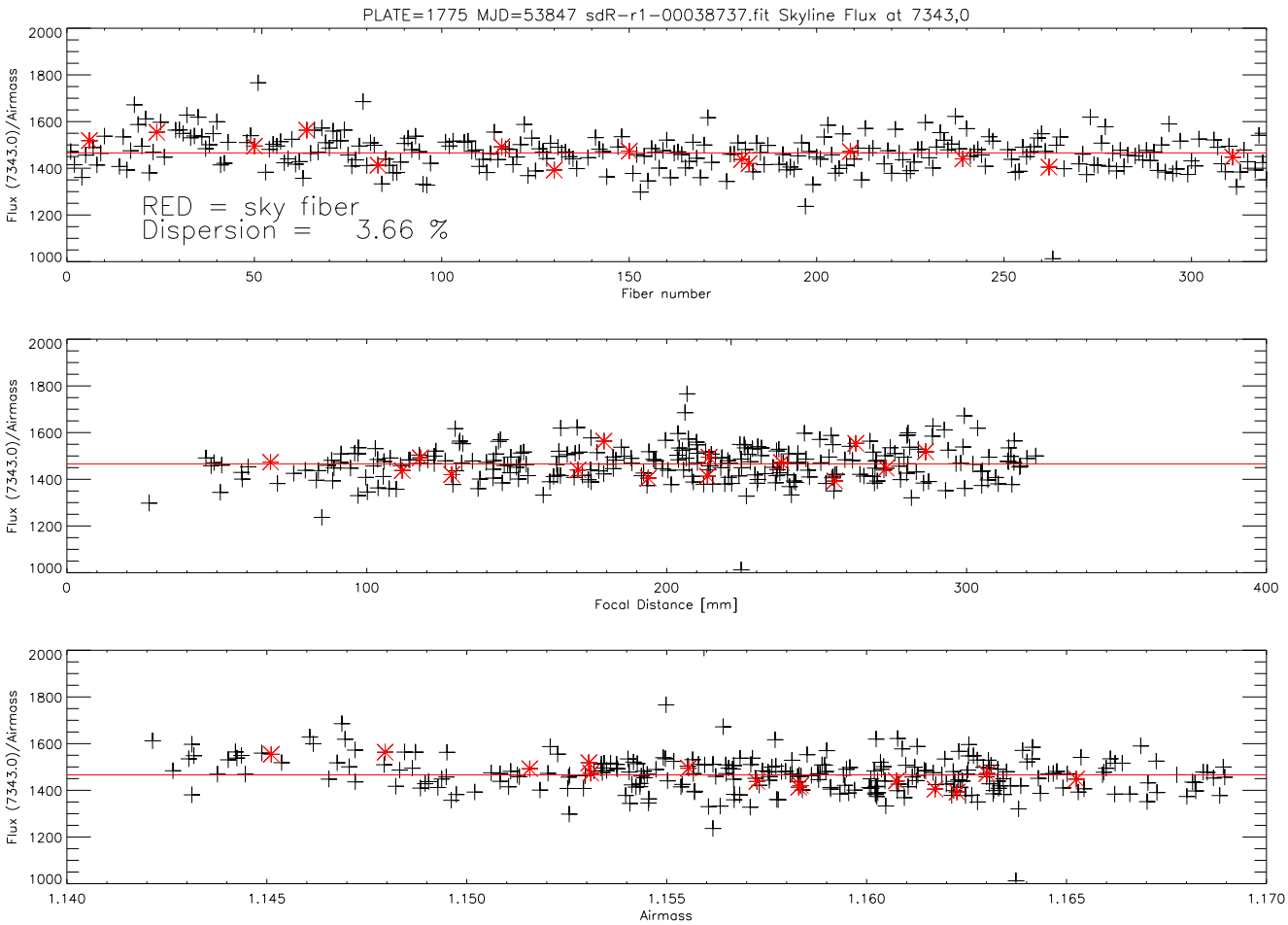

Number of sky fibers = 15
PLATE=1775 MJD=53847 sdR-r1-00038737.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

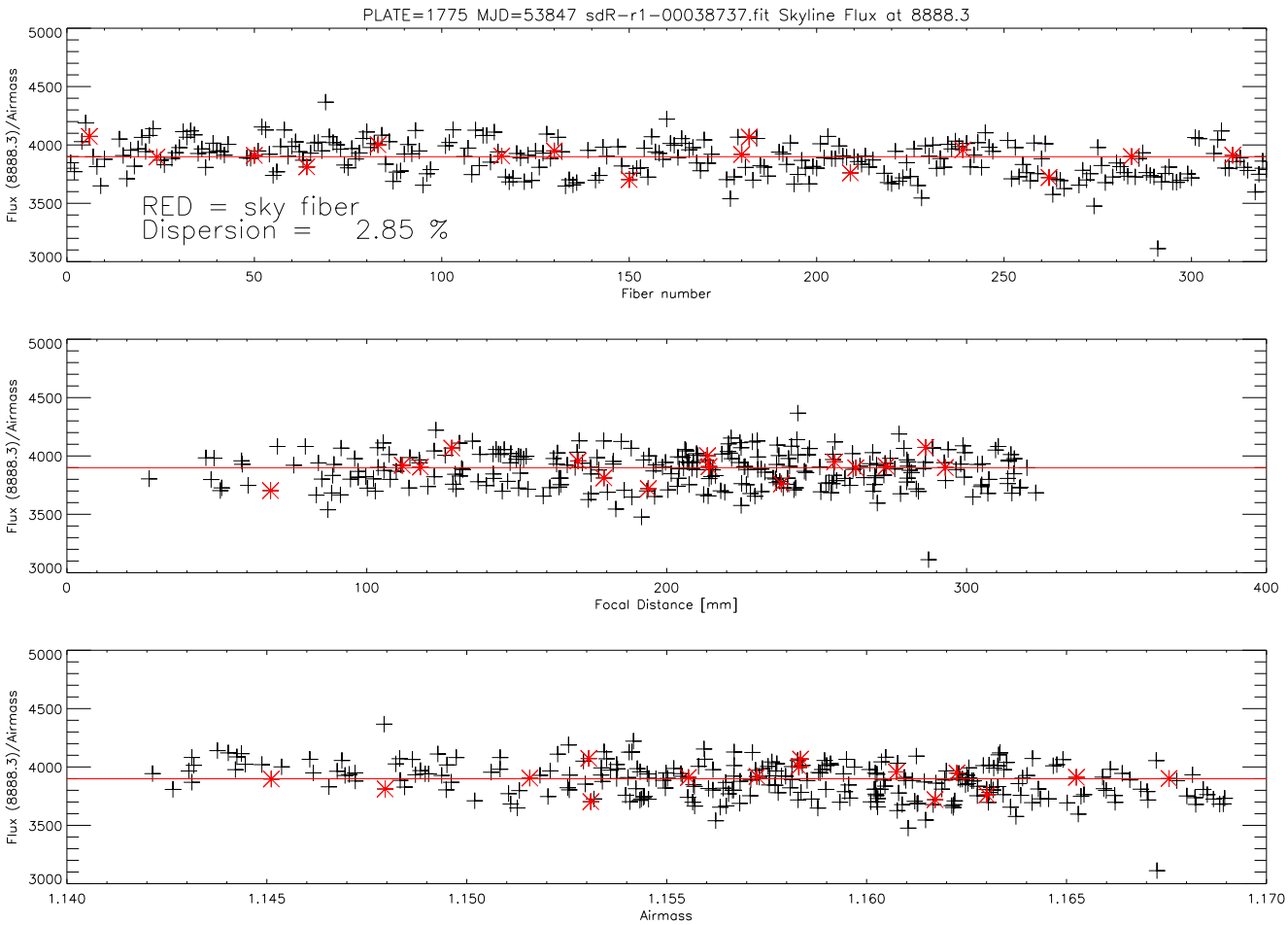

PLATE=1775 MJD=53847 sdR-r1-00038737.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

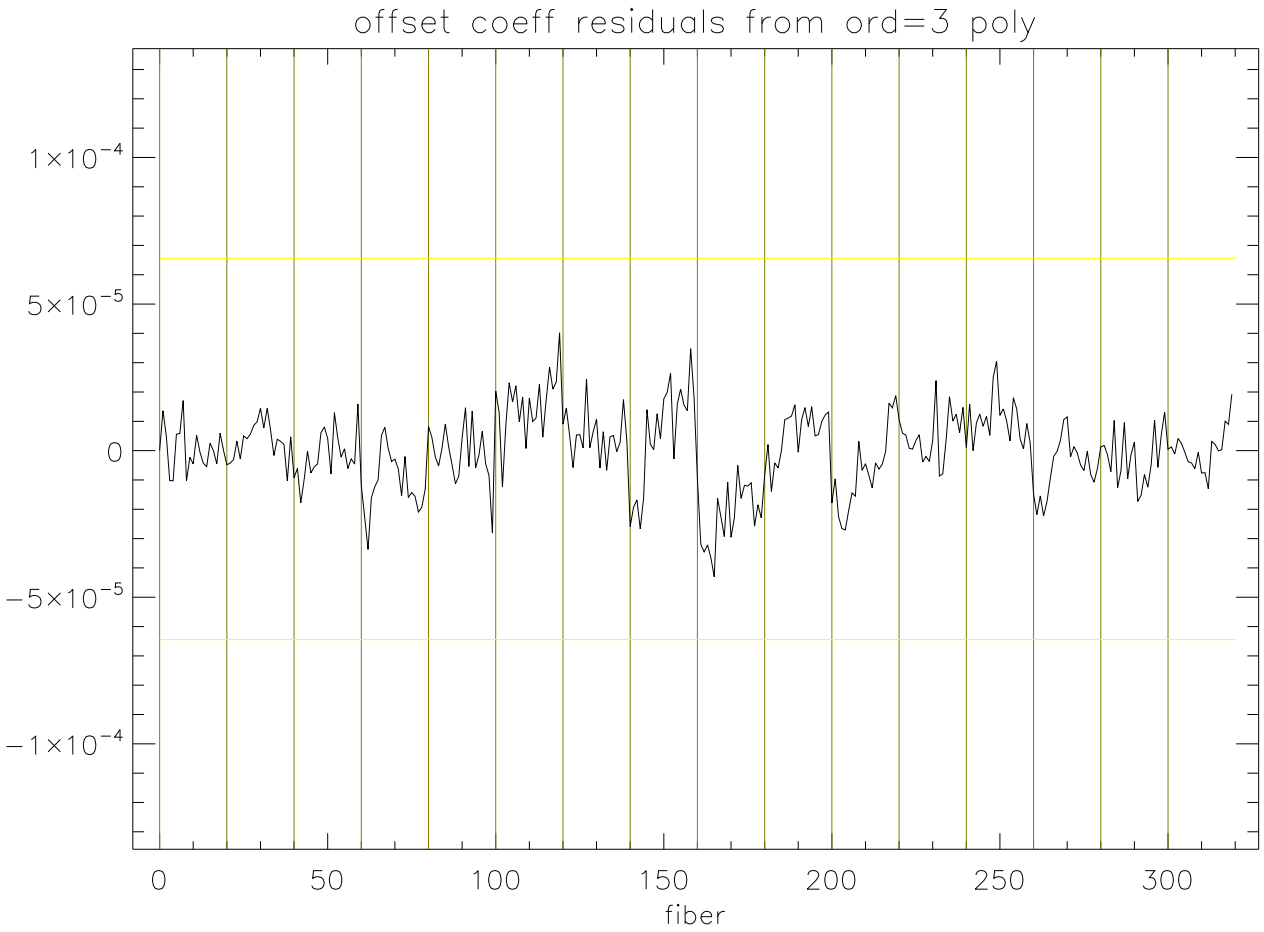

PLATE=1775 MJD=53847 sdR-r1-00038737.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

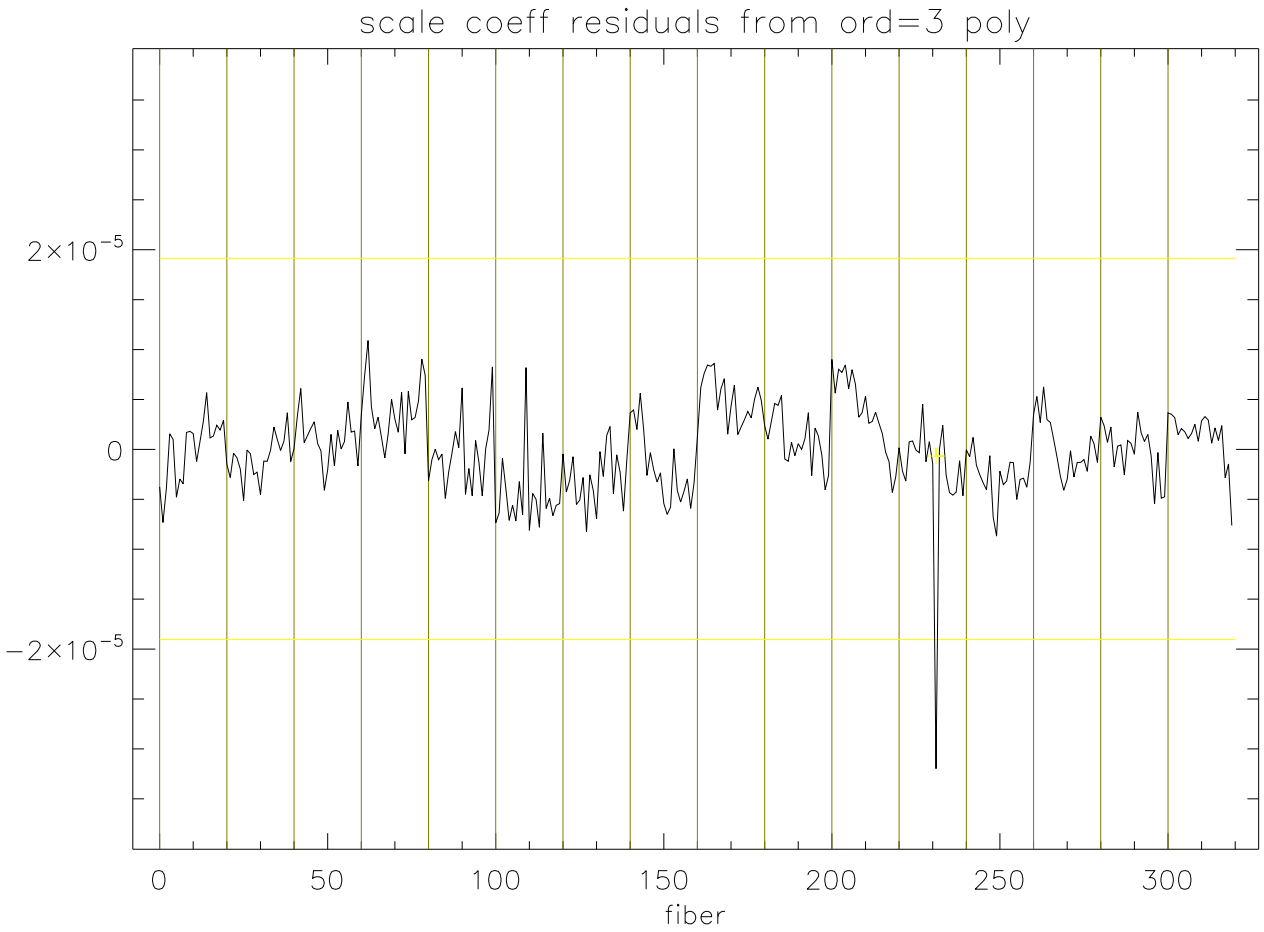

PLATE=1775 MJD=53847 sdR-r1-00038737.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

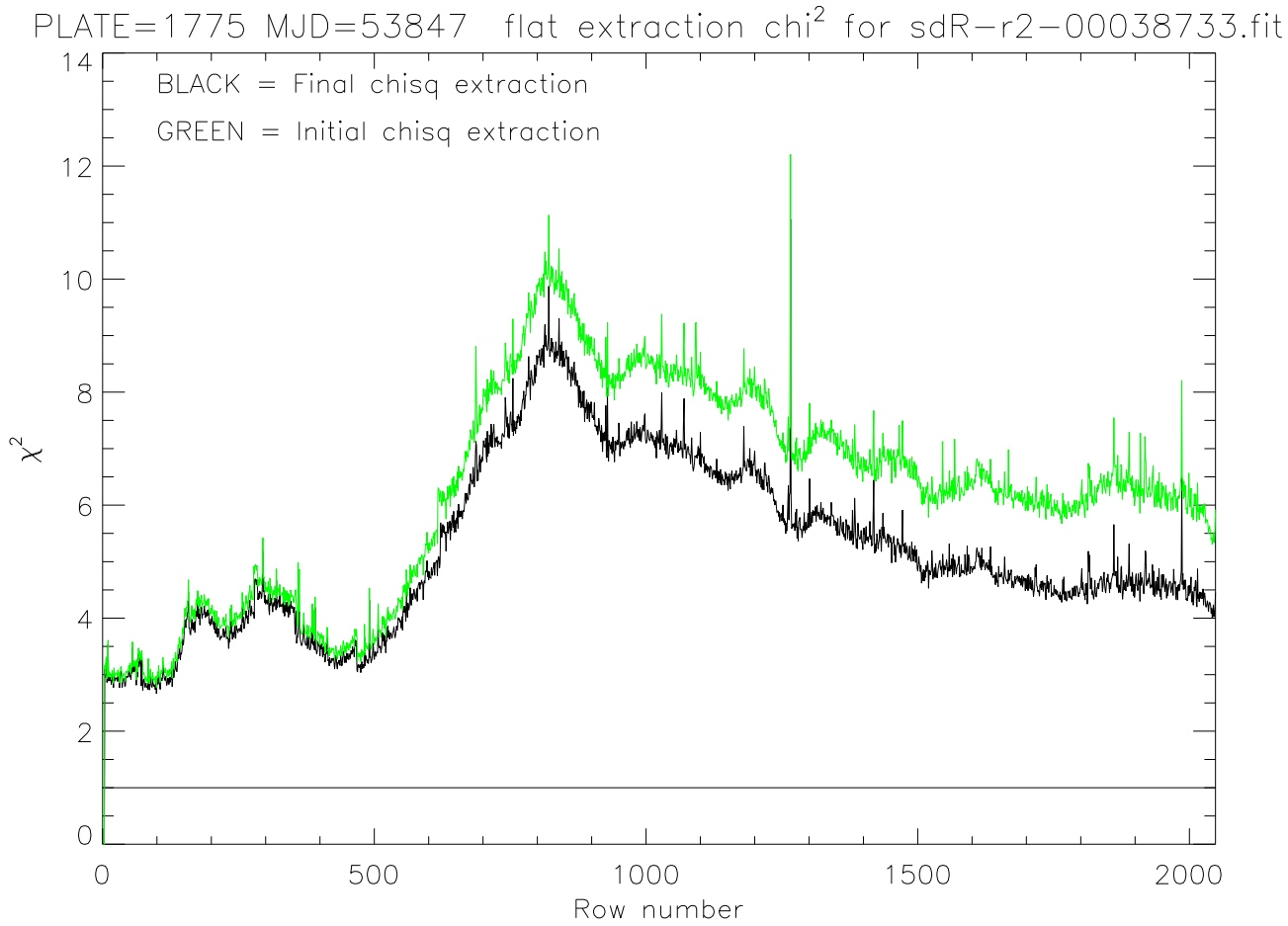

Number of sky fibers = 15
PLATE=1775 MJD=53847 sdR-r1-00038737.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

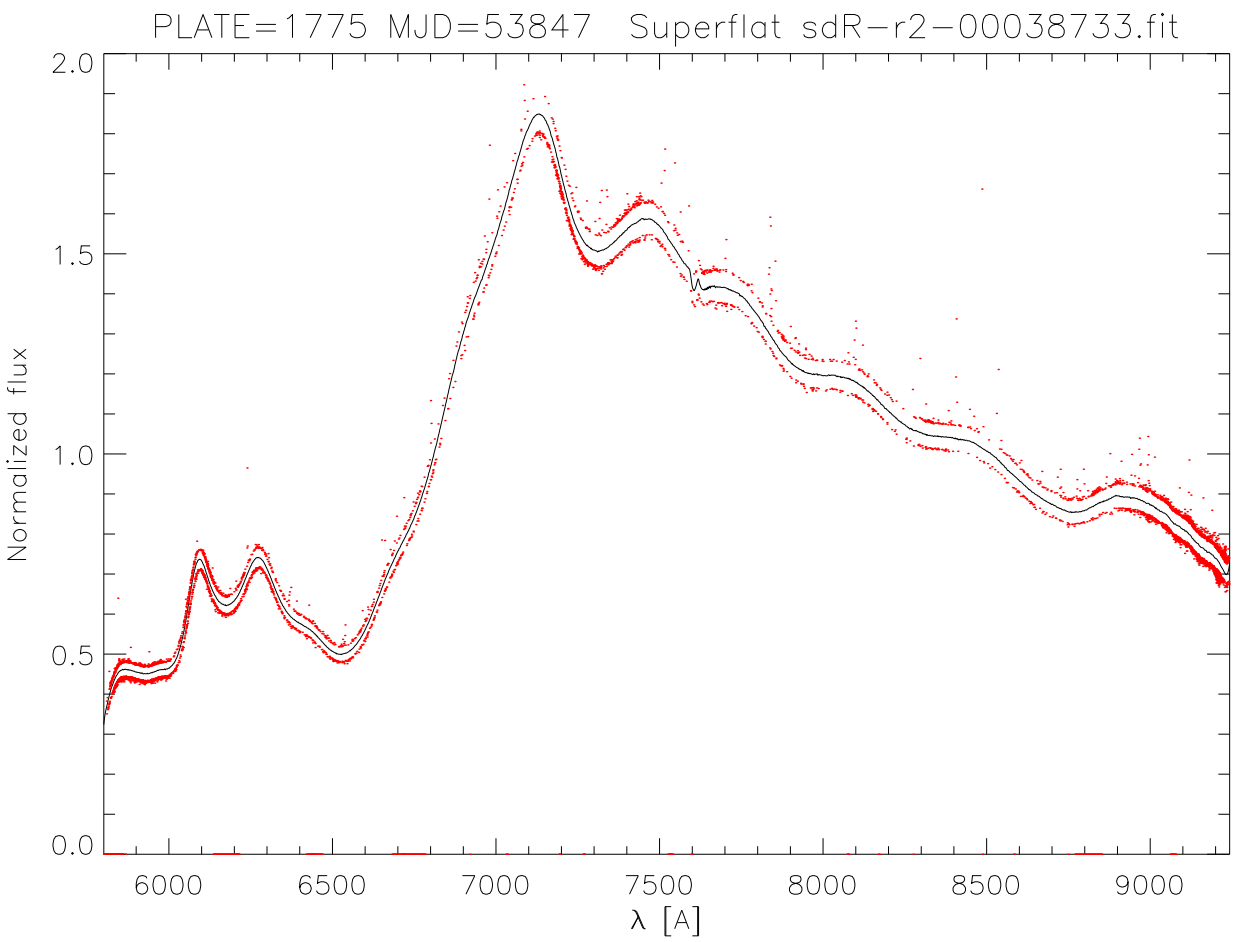

PLATE=1775 MJD=53847 sdR-r1-00038737.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.66 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

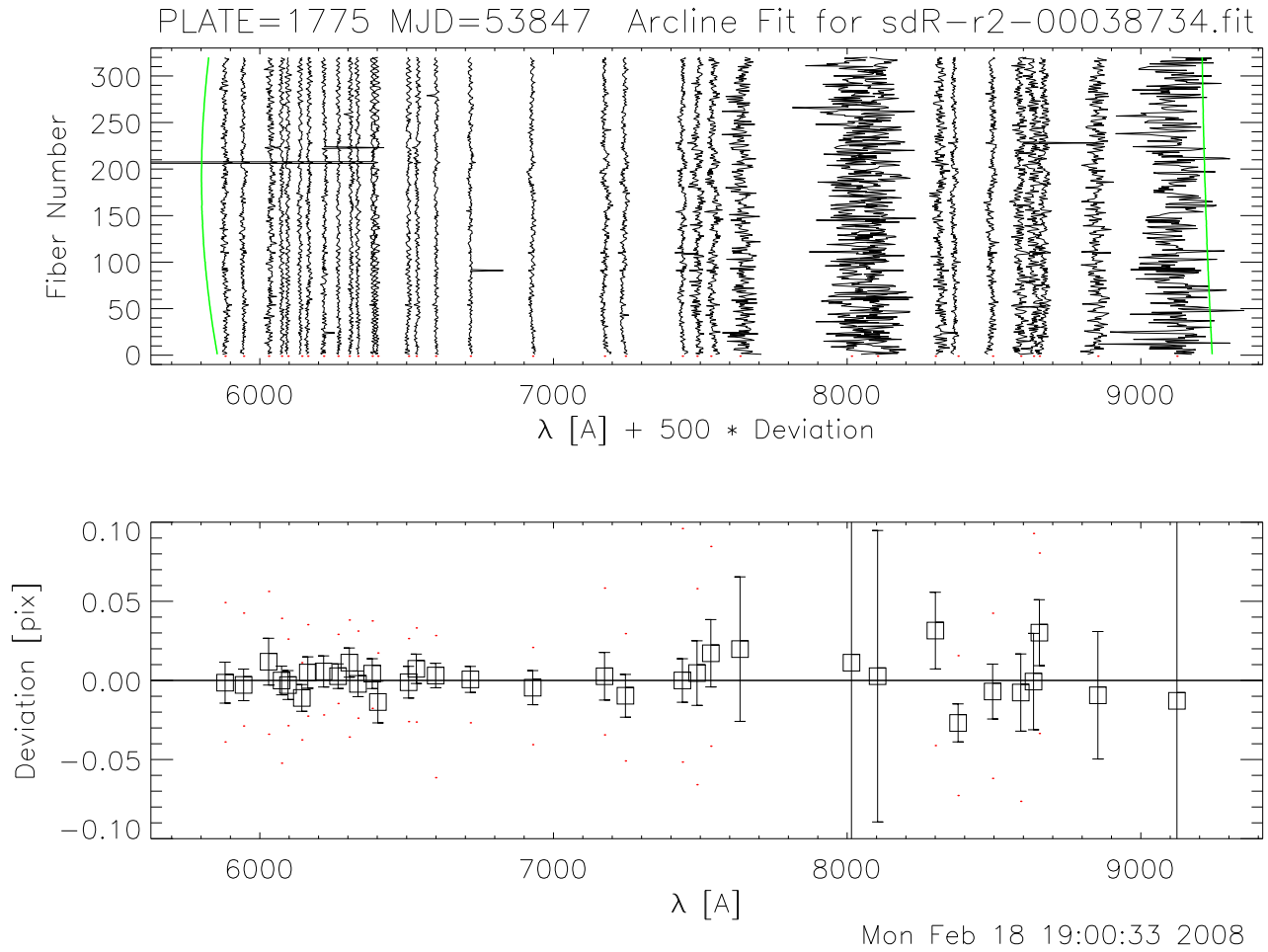

PLATE=1775 MJD=53847 sdR-r1-00038737.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.85 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

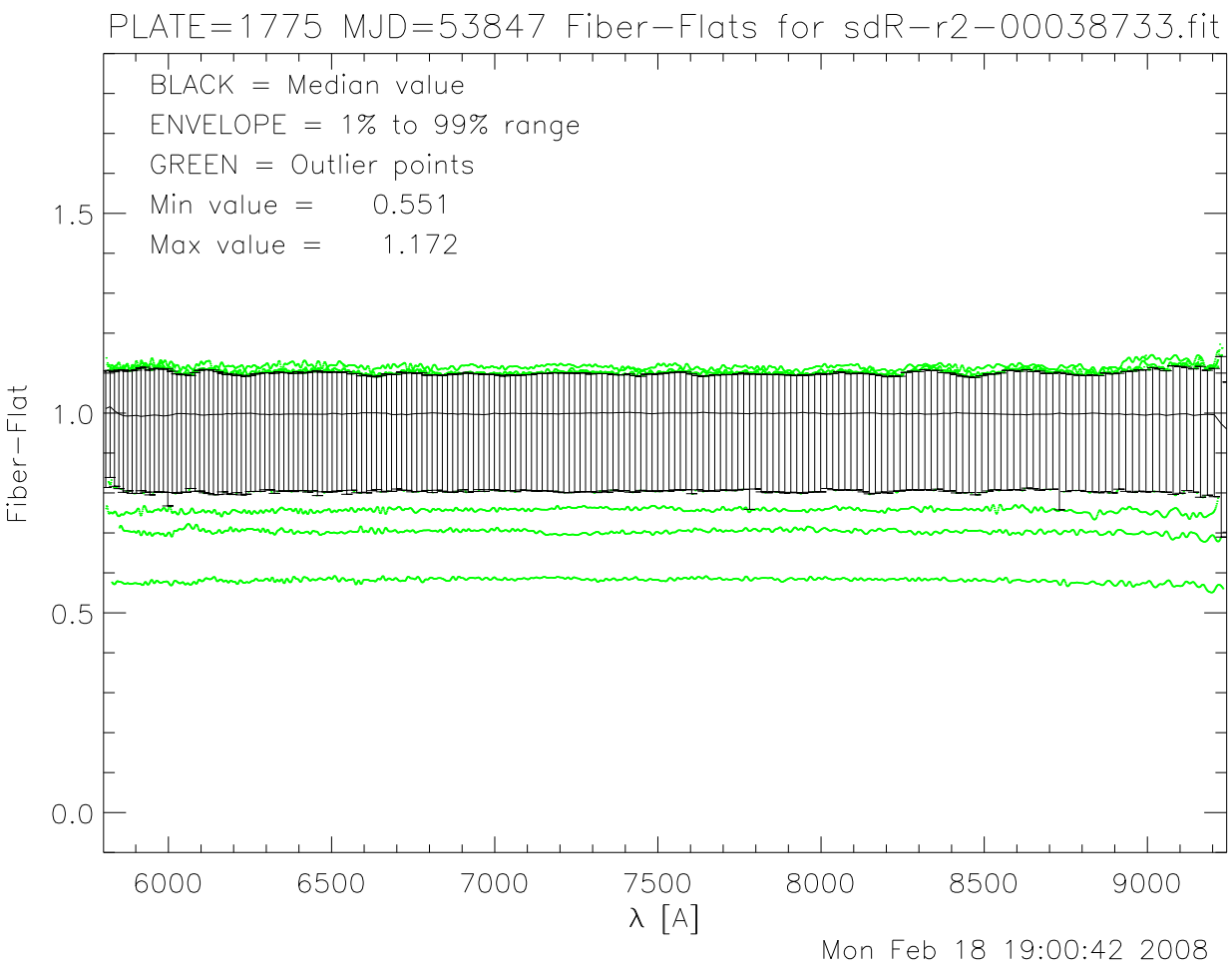

offset coeff residuals from ord=3 poly
1×10⁻⁴
5×10⁻⁵
0
−5×10⁻⁵
−1×10⁻⁴
0
50
100
150
200
250
300
fiber

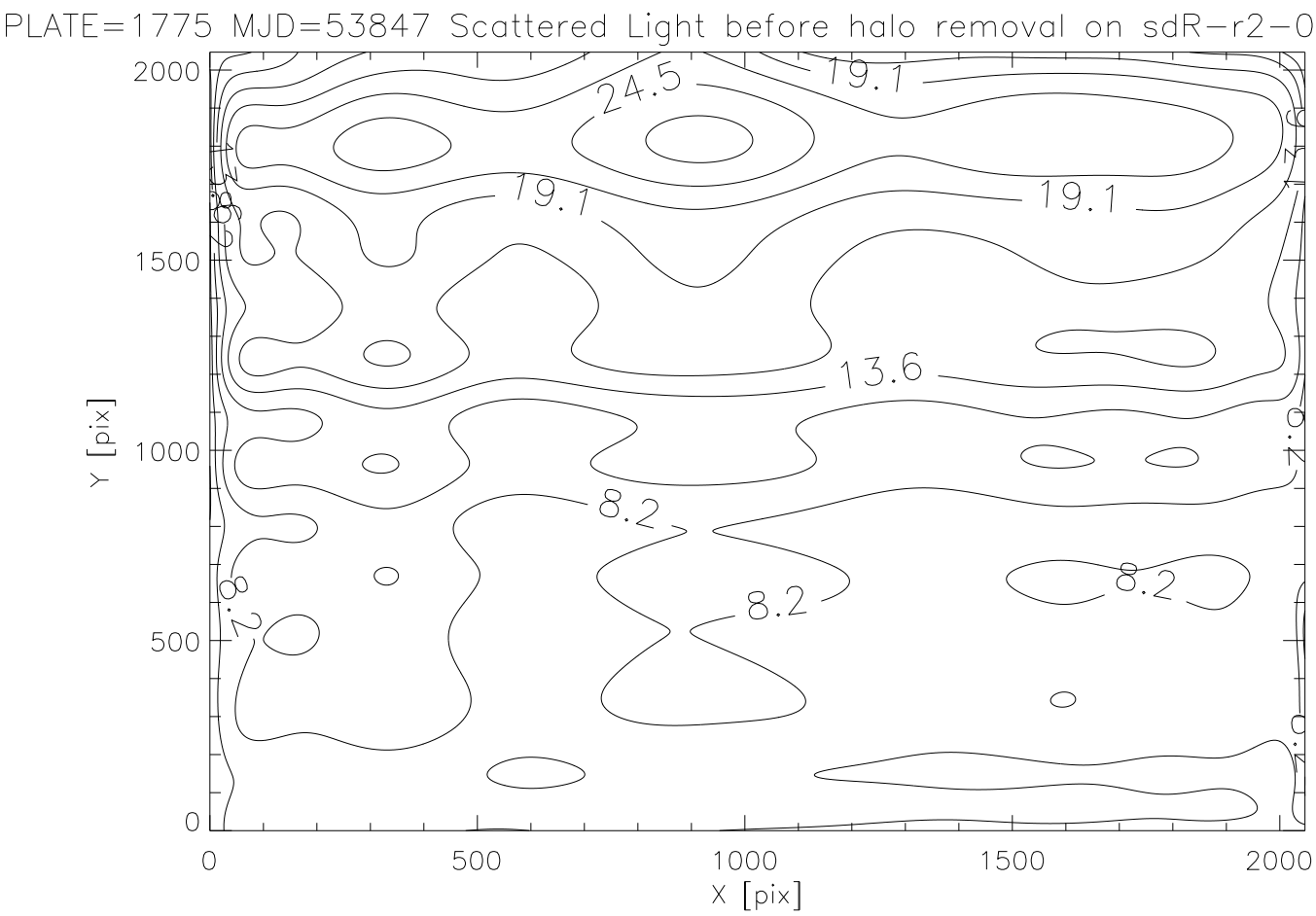

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

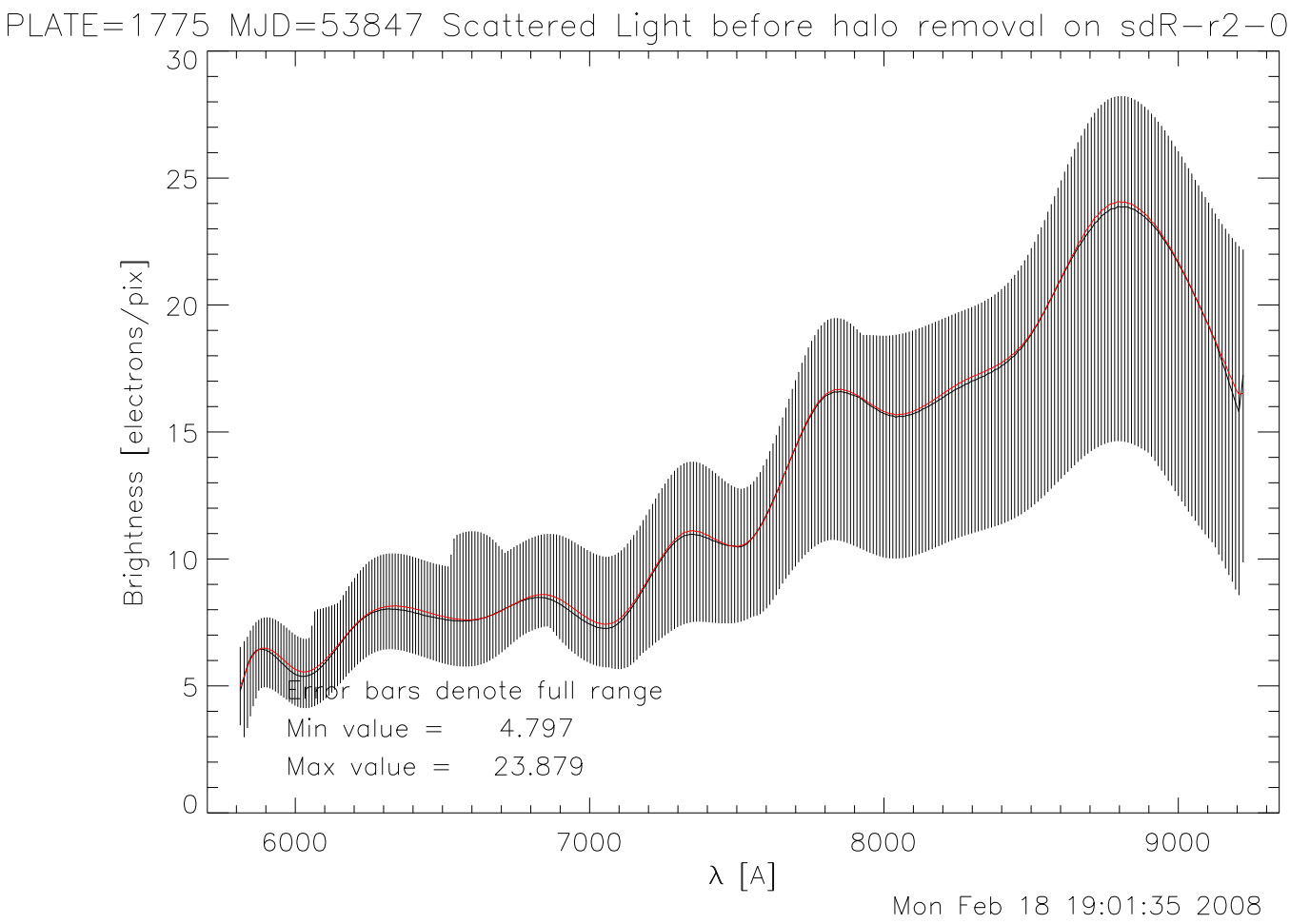

PLATE=1775 MJD=53847 flat extraction chi^2 for sdR−r2−00038733.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
14
0
500
1000
1500
2000

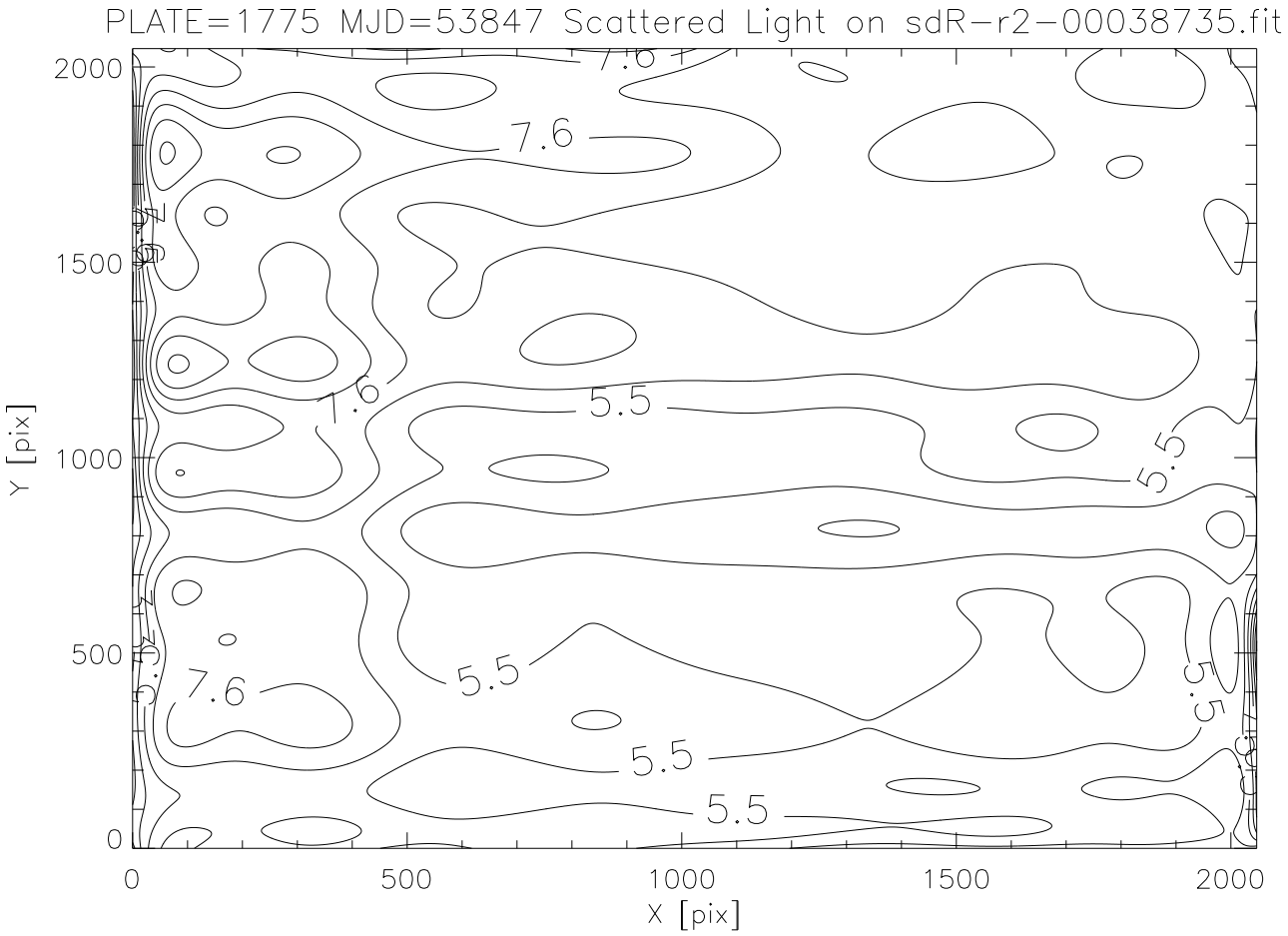

PLATE=1775 MJD=53847 Superflat sdR-r2-00038733.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

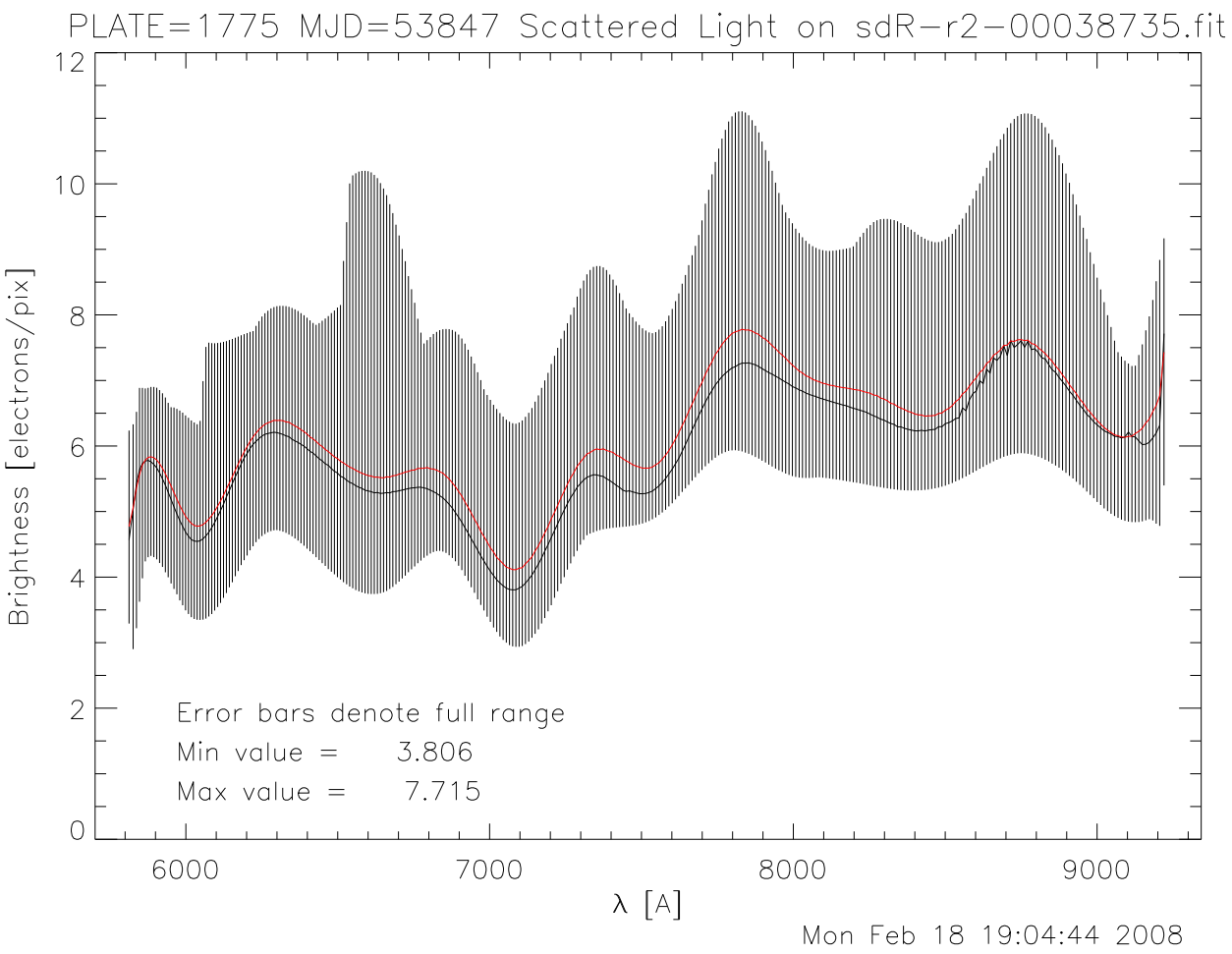

PLATE=1775 MJD=53847 Arcline Fit for sdR-r2-00038734.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Mon Feb 18 19:00:33 2008

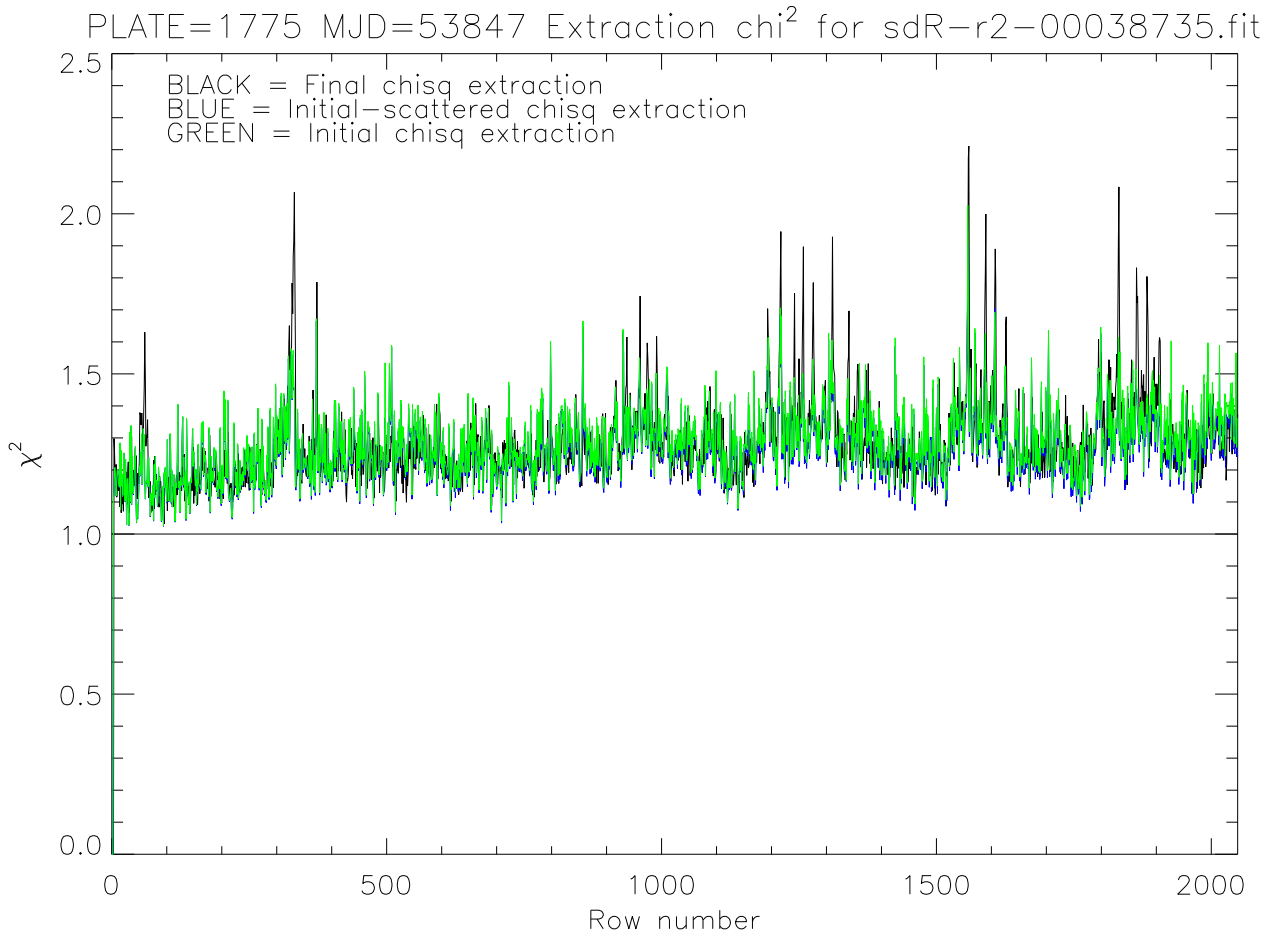

PLATE=1775 MJD=53847 Fiber−Flats for sdR−r2−00038733.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.551
Max value = 1.172
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 18 19:00:42 2008

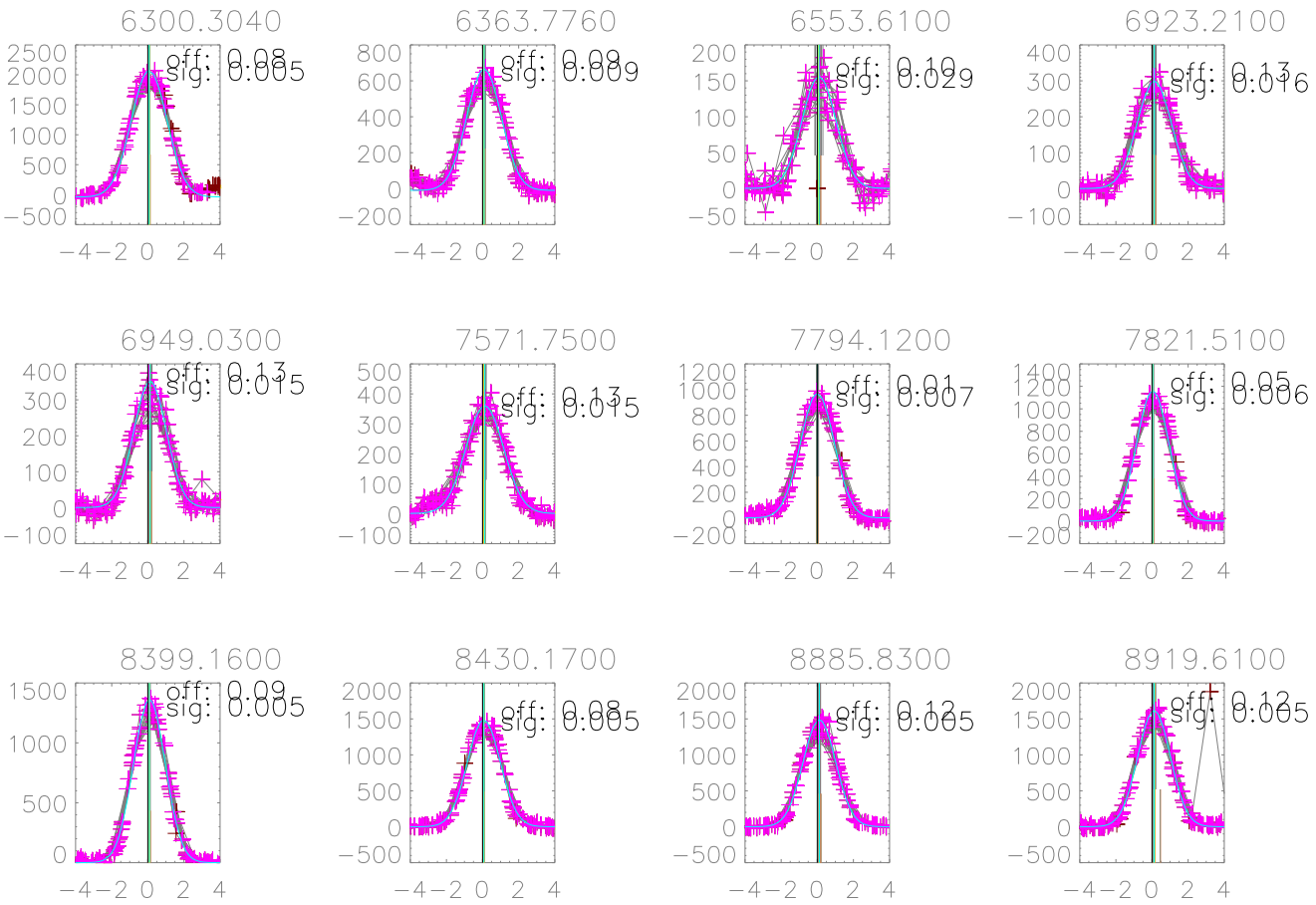

PLATE=1775 MJD=53847 Scattered Light before halo removal on sdR-r2-00038735.fi
24.5
19.1
19.1
19.1
13.6
8.2
8.2
8.2
0.0
0.0
Y [pix]
X [pix]
0
500
1000
1500
2000

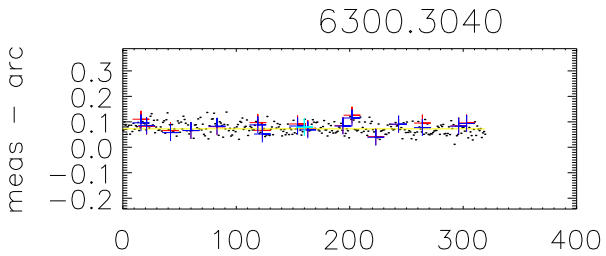

PLATE=1775 MJD=53847 Scattered Light before halo removal on sdR-r2-00038735.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.797
Max value = 23.879
Mon Feb 18 19:01:35 2008

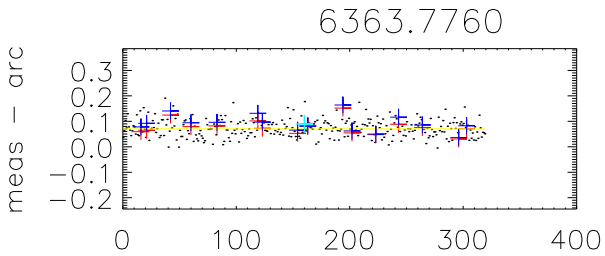

PLATE=1775 MJD=53847 Scattered Light on sdR-r2-00038735.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
7.6
5.5

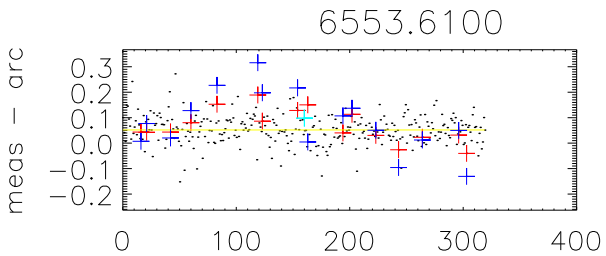

PLATE=1775 MJD=53847 Scattered Light on sdR-r2-00038735.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.806
Max value = 7.715
Mon Feb 18 19:04:44 2008

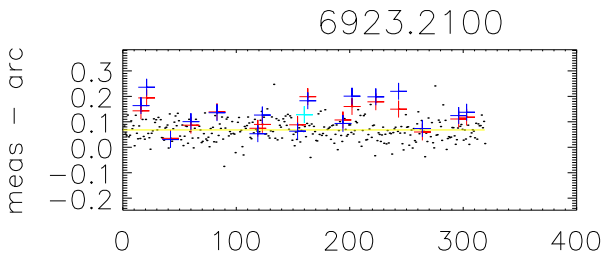

PLATE=1775 MJD=53847 Extraction chi^2 for sdR-r2-00038735.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

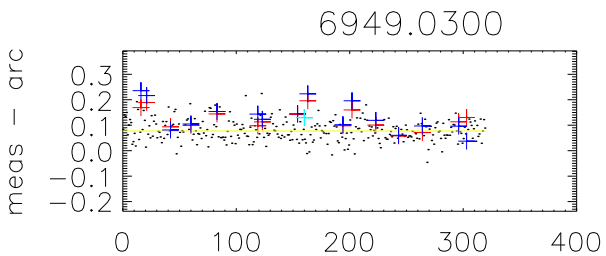

6300.3040
off: 0.08
sig: 0.005
6363.7760
off: 0.08
sig: 0.009
6553.6100
off: 0.10
sig: 0.029
6923.2100
off: 0.13
sig: 0.016
6949.0300
off: 0.13
sig: 0.015
7571.7500
off: 0.13
sig: 0.015
7794.1200
off: 0.01
sig: 0.007
7821.5100
off: 0.05
sig: 0.006
8399.1600
off: 0.09
sig: 0.005
8430.1700
off: 0.08
sig: 0.005
8885.8300
off: 0.12
sig: 0.005
8919.6100
off: 0.12
sig: 0.005

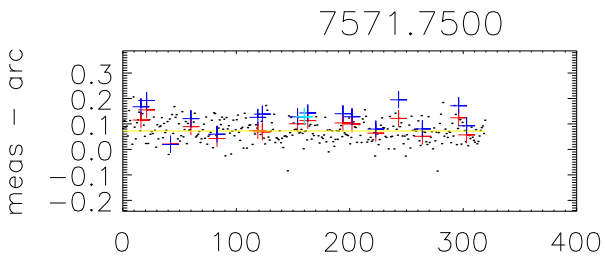

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

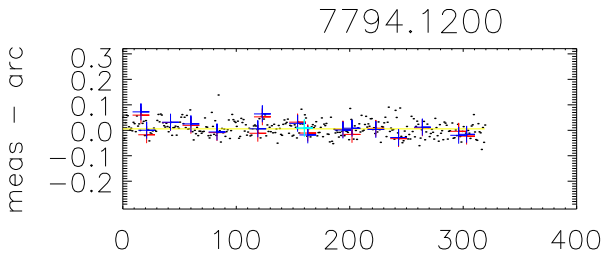

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

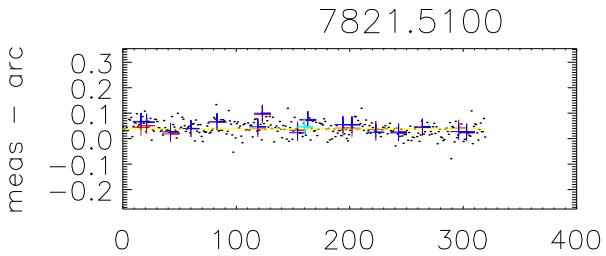

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

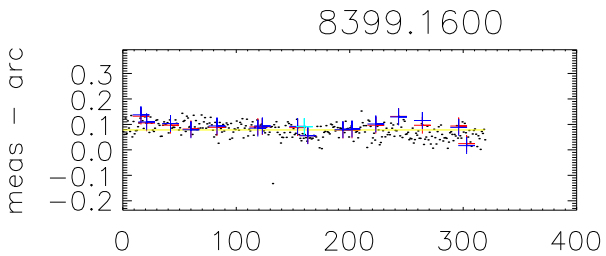

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

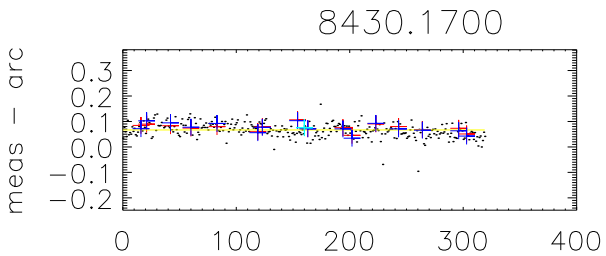

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

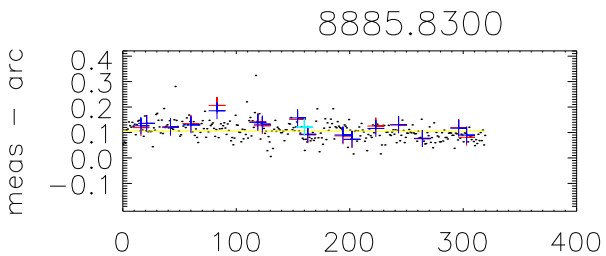

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

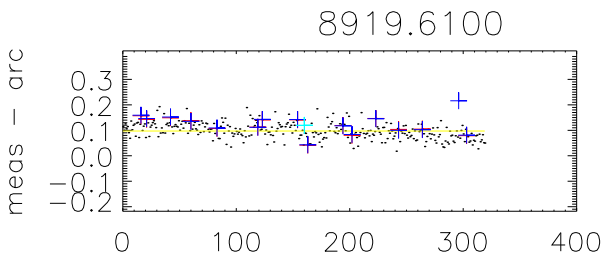

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

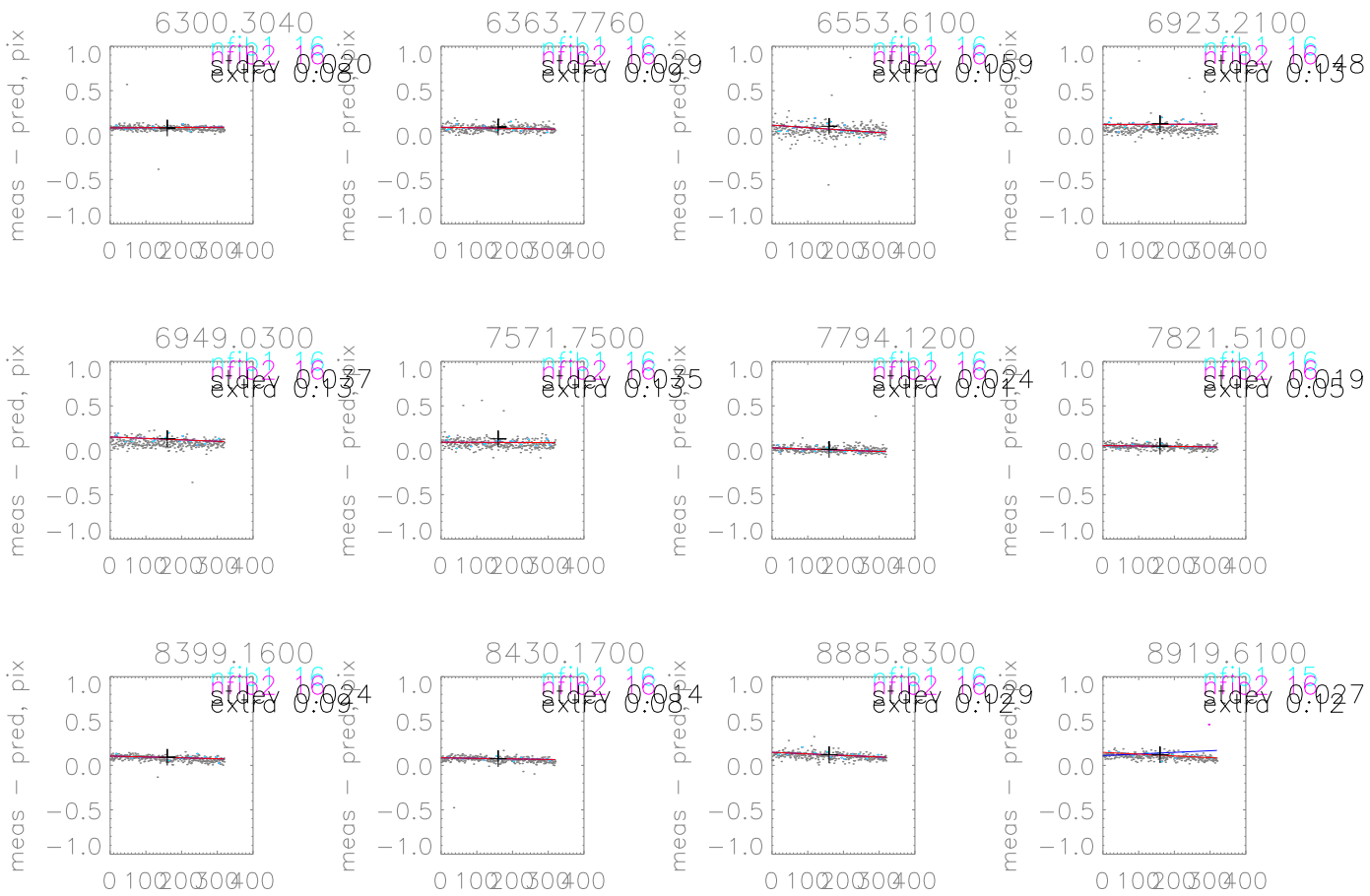

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

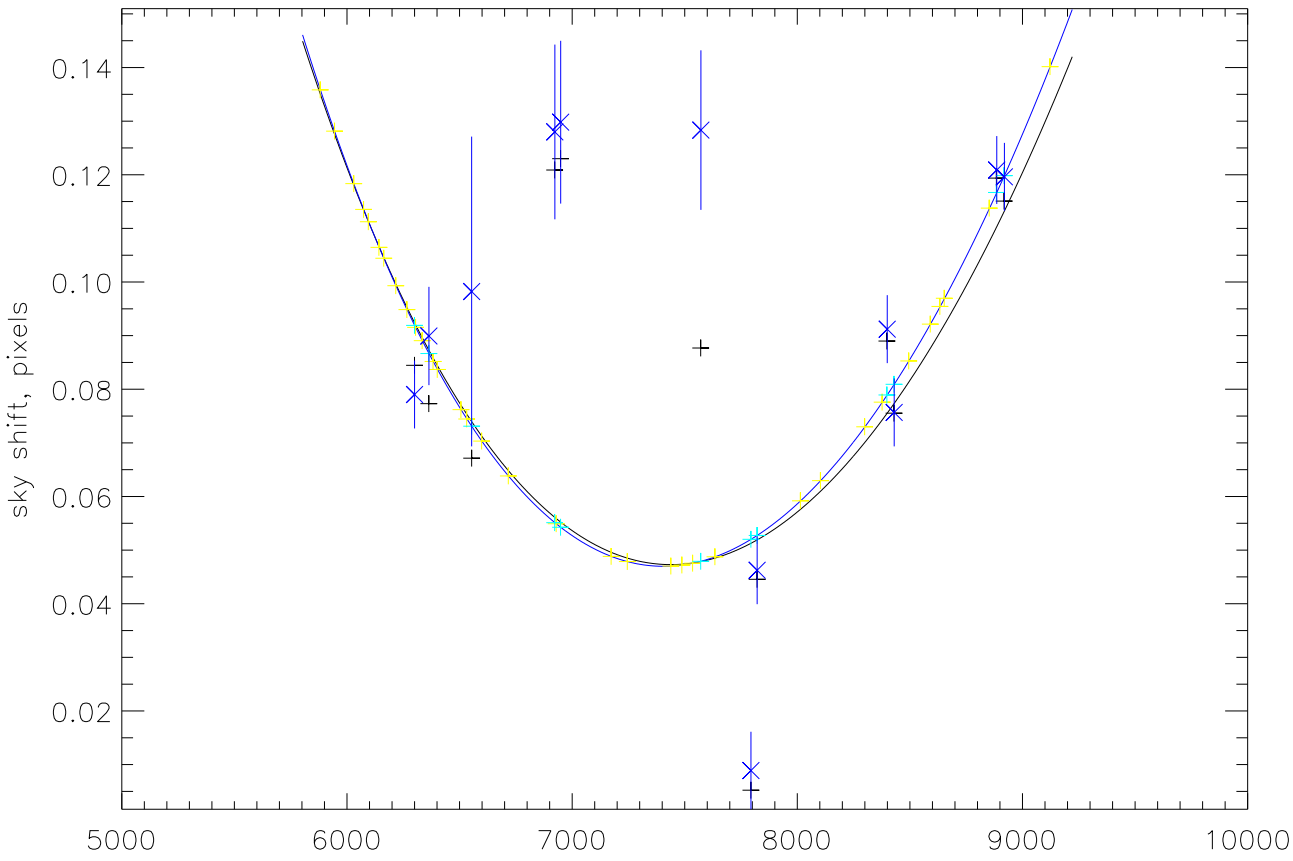

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

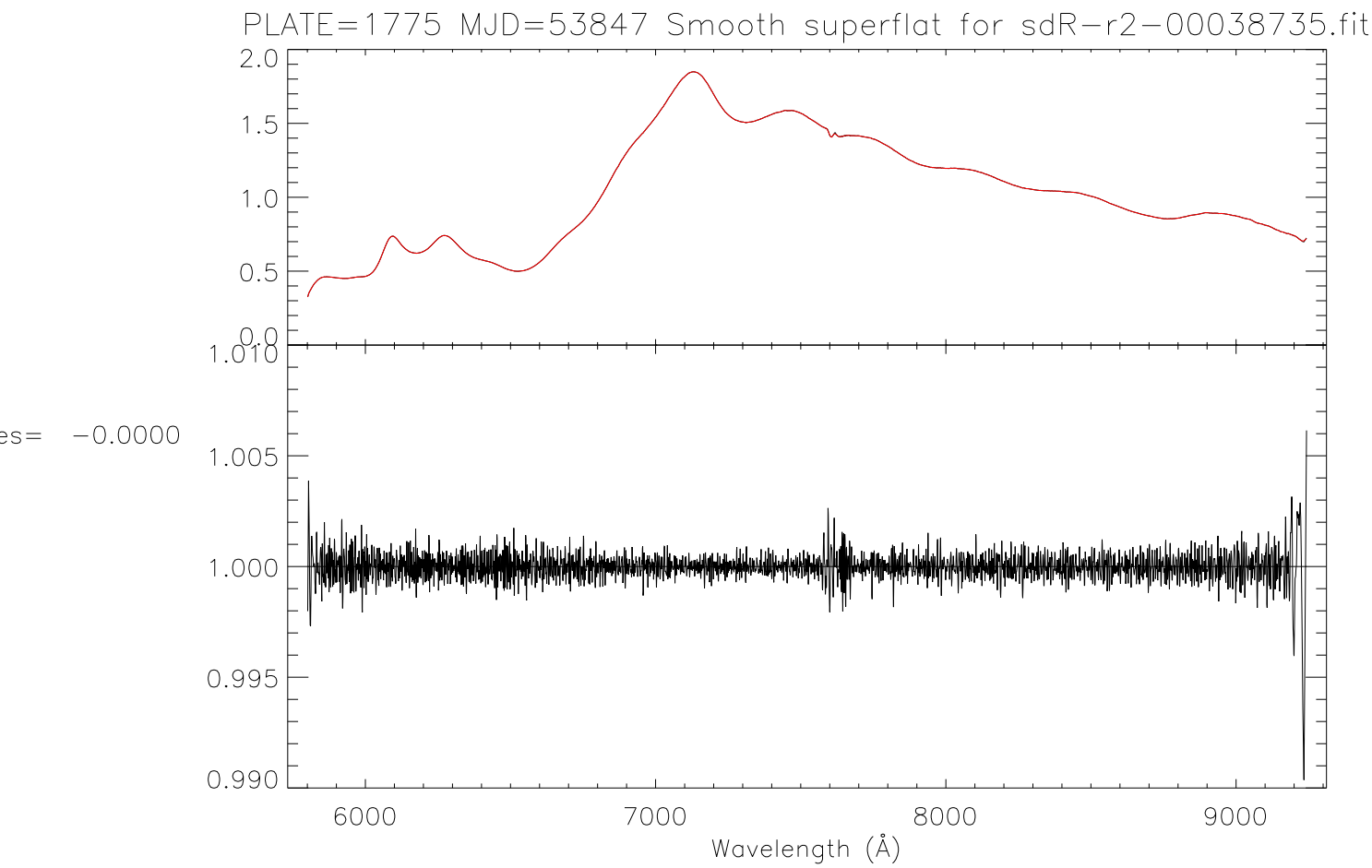

8430.1700
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

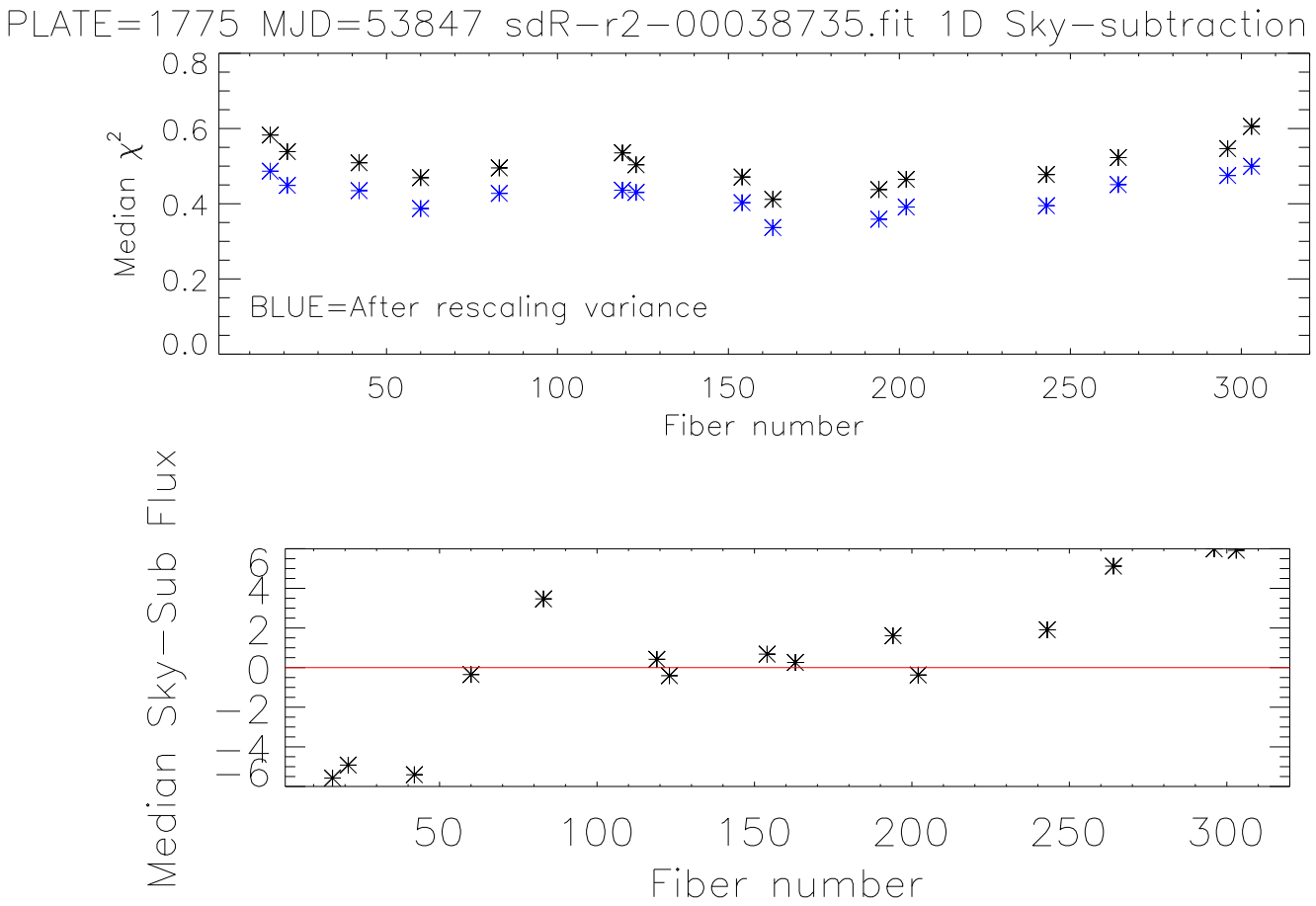

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

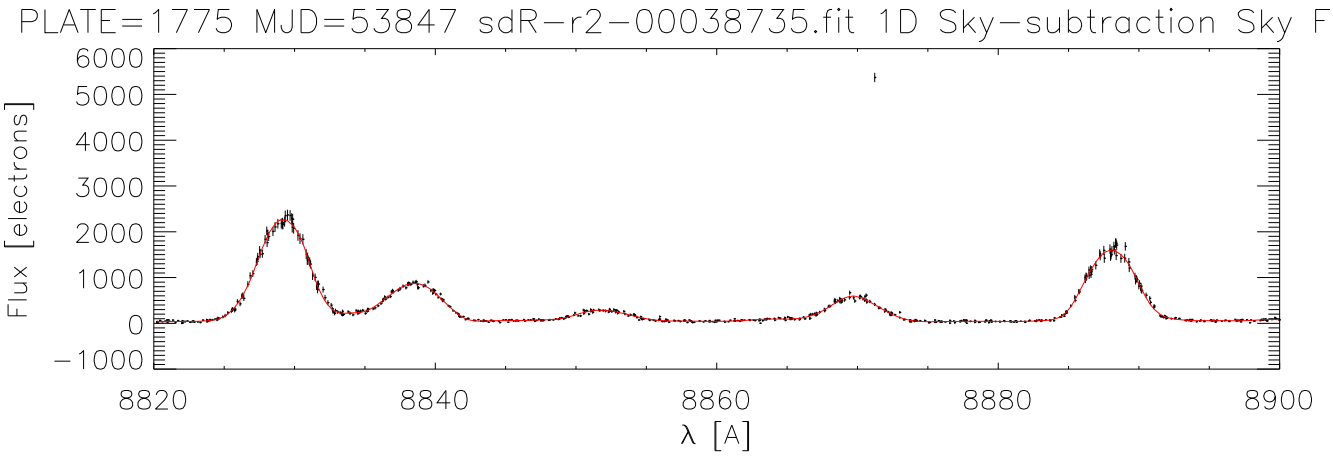

6300.3040
stdev 0.020
extra 0.08
6363.7760
stdev 0.029
extra 0.09
6553.6100
stdev 0.059
extra 0.10
6923.2100
stdev 0.048
extra 0.13
6949.0300
stdev 0.037
extra 0.13
7571.7500
stdev 0.035
extra 0.13
7794.1200
stdev 0.024
extra 0.07
7821.5100
stdev 0.019
extra 0.05
8399.1600
stdev 0.024
extra 0.09
8430.1700
stdev 0.014
extra 0.08
8885.8300
stdev 0.029
extra 0.12
8919.6100
stdev 0.027
extra 0.12
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

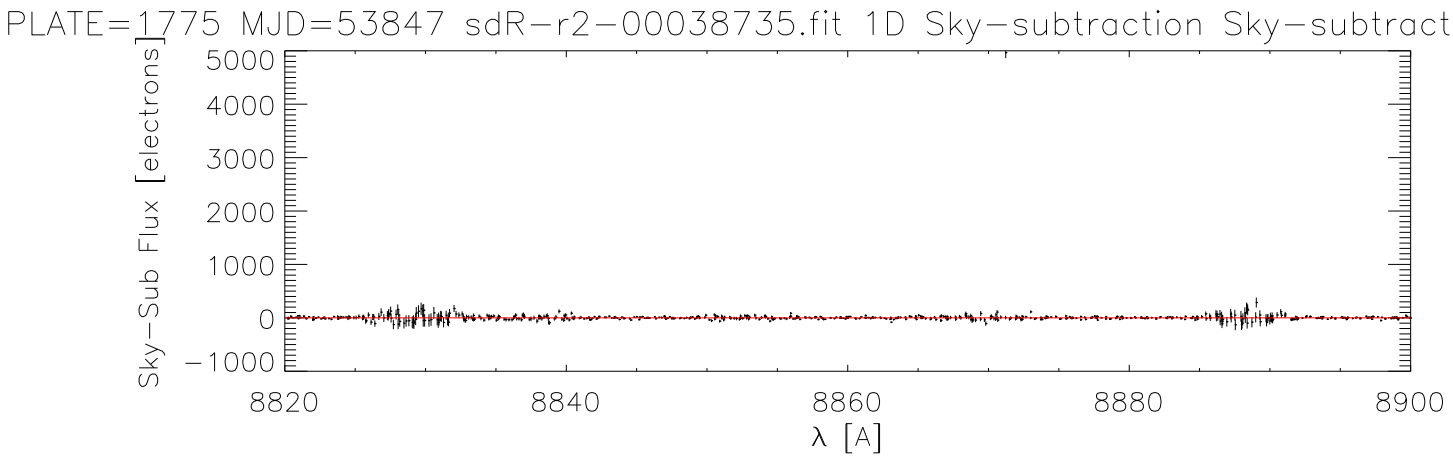

sky shift, pixels
0.14
0.12
0.10
0.08
0.06
0.04
0.02
5000
6000
7000
8000
9000
10000

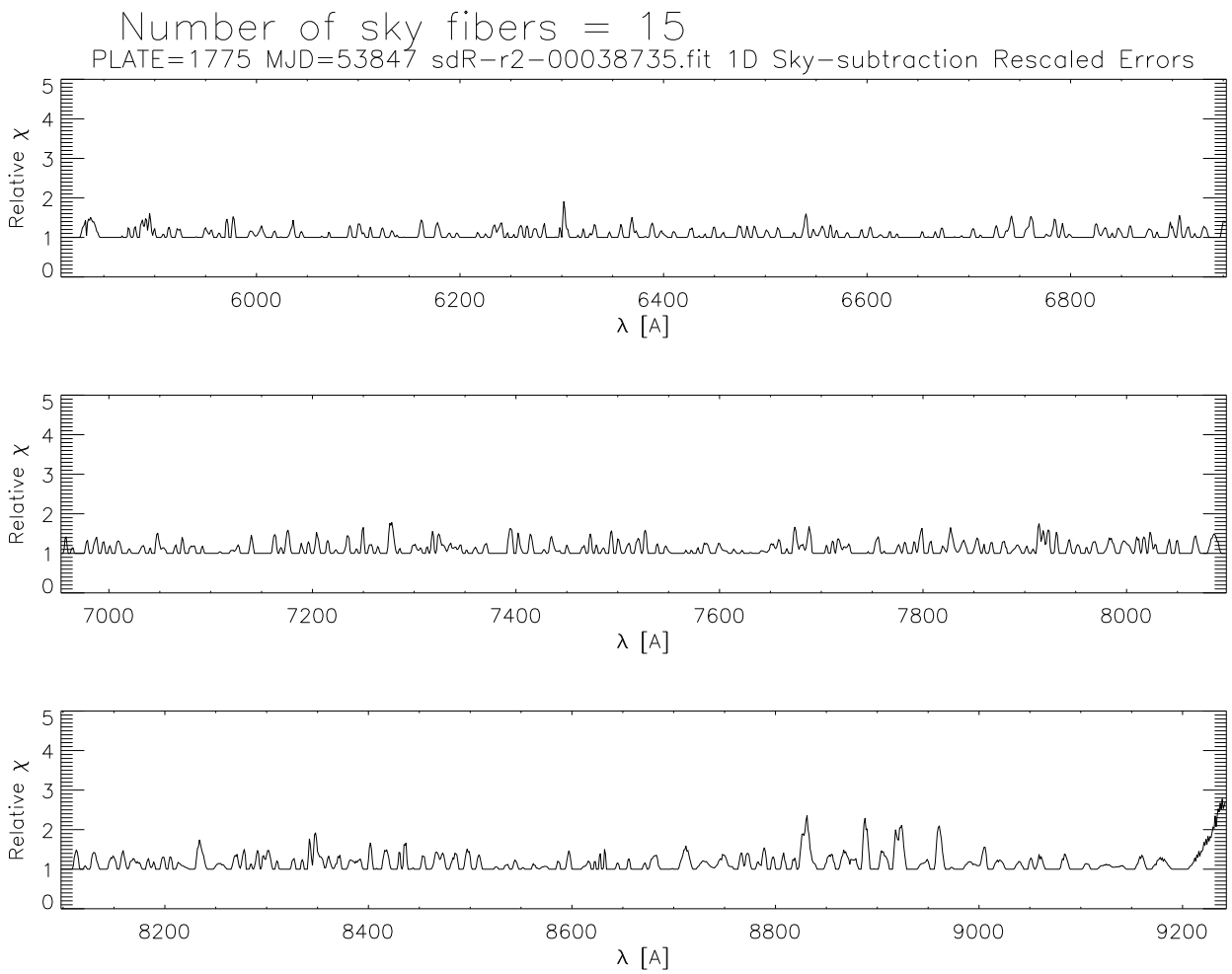

PLATE=1775 MJD=53847 Smooth superflat for sdR-r2-00038735.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

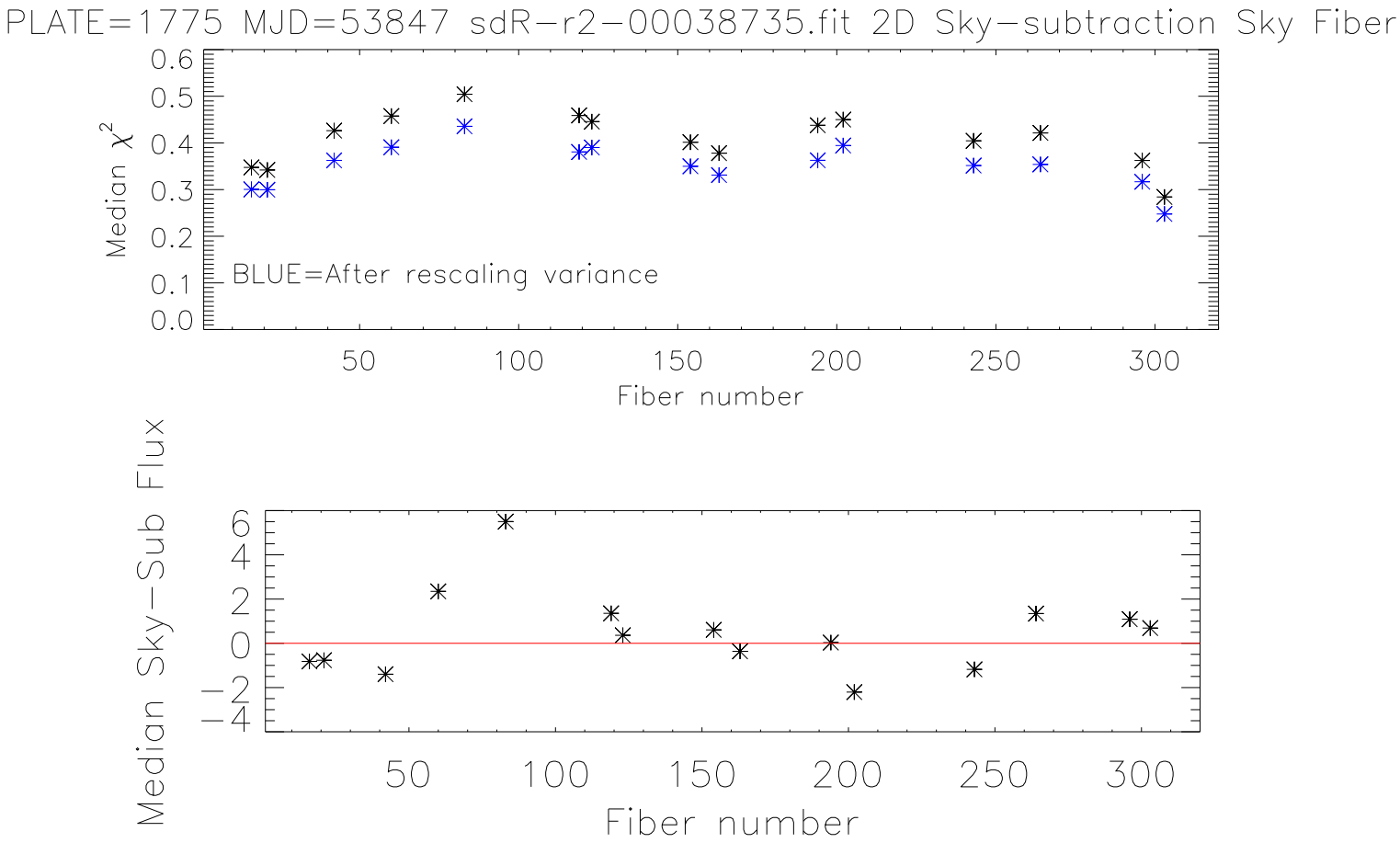
es= −0.0000

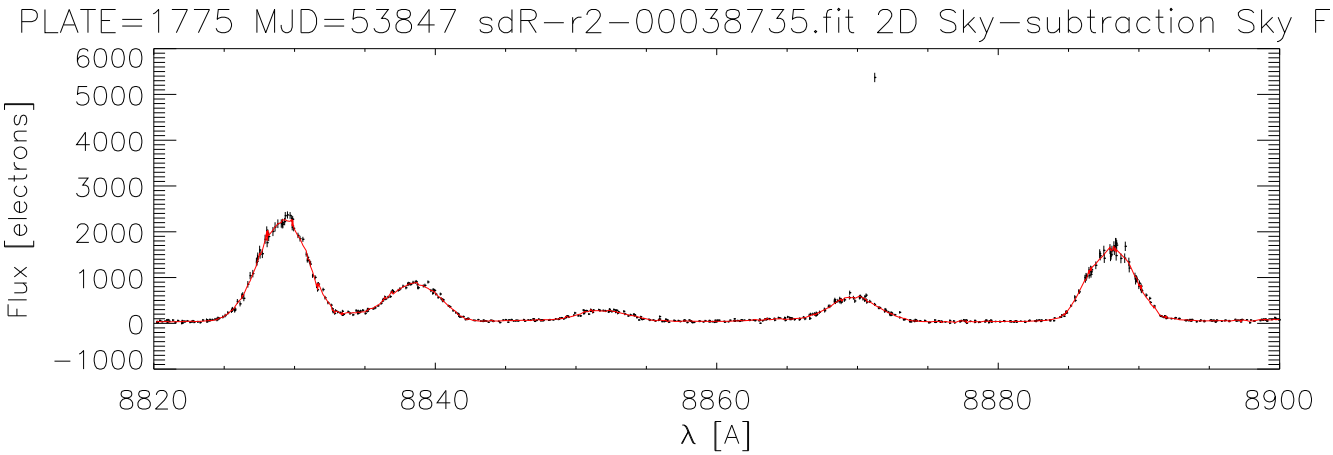

PLATE=1775 MJD=53847 sdR-r2-00038735.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

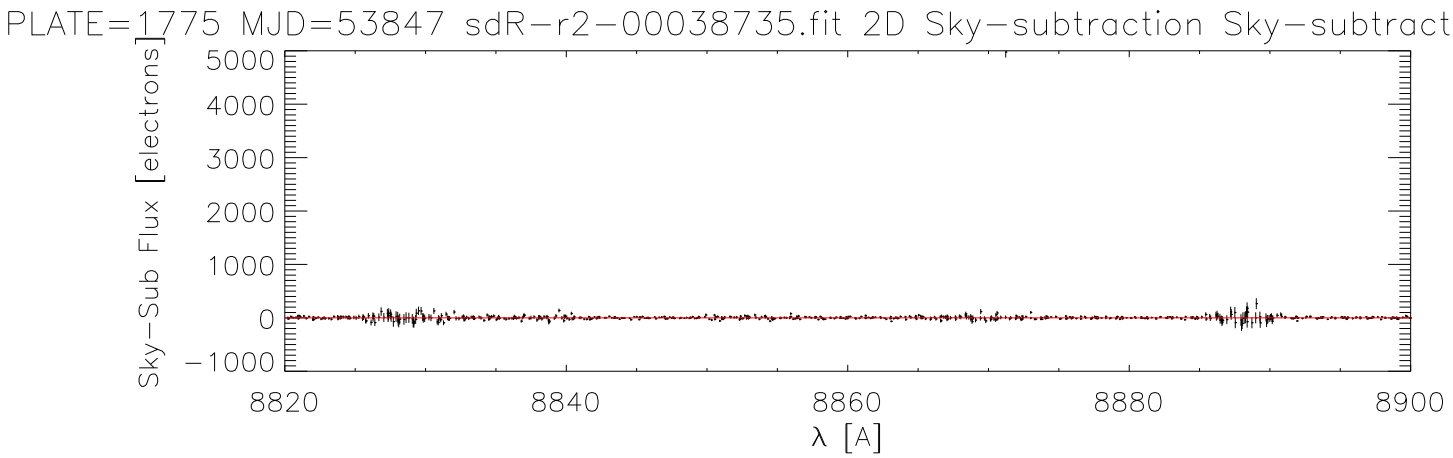

PLATE=1775 MJD=53847 sdR-r2-00038735.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

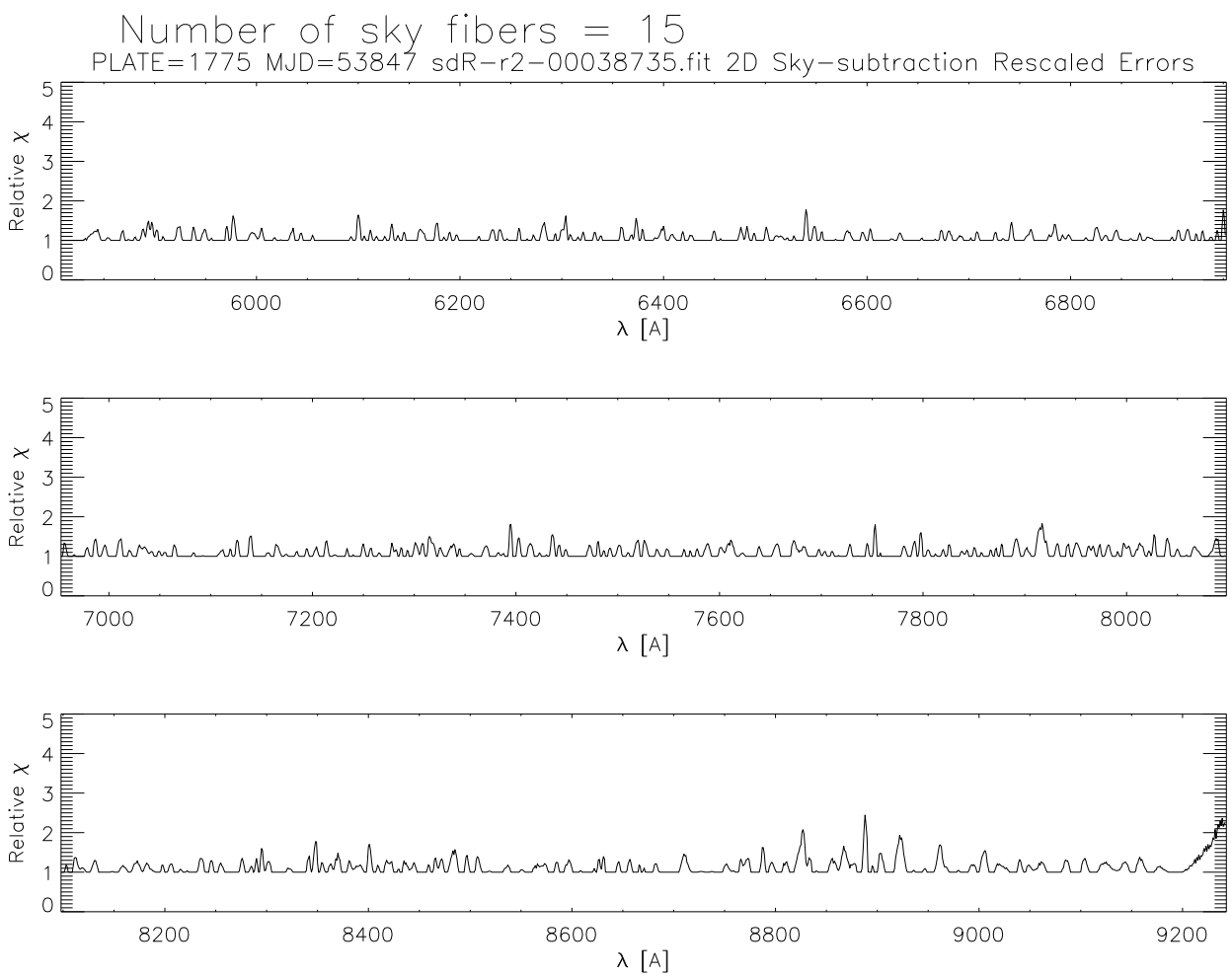

PLATE=1775 MJD=53847 sdR-r2-00038735.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
5000
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

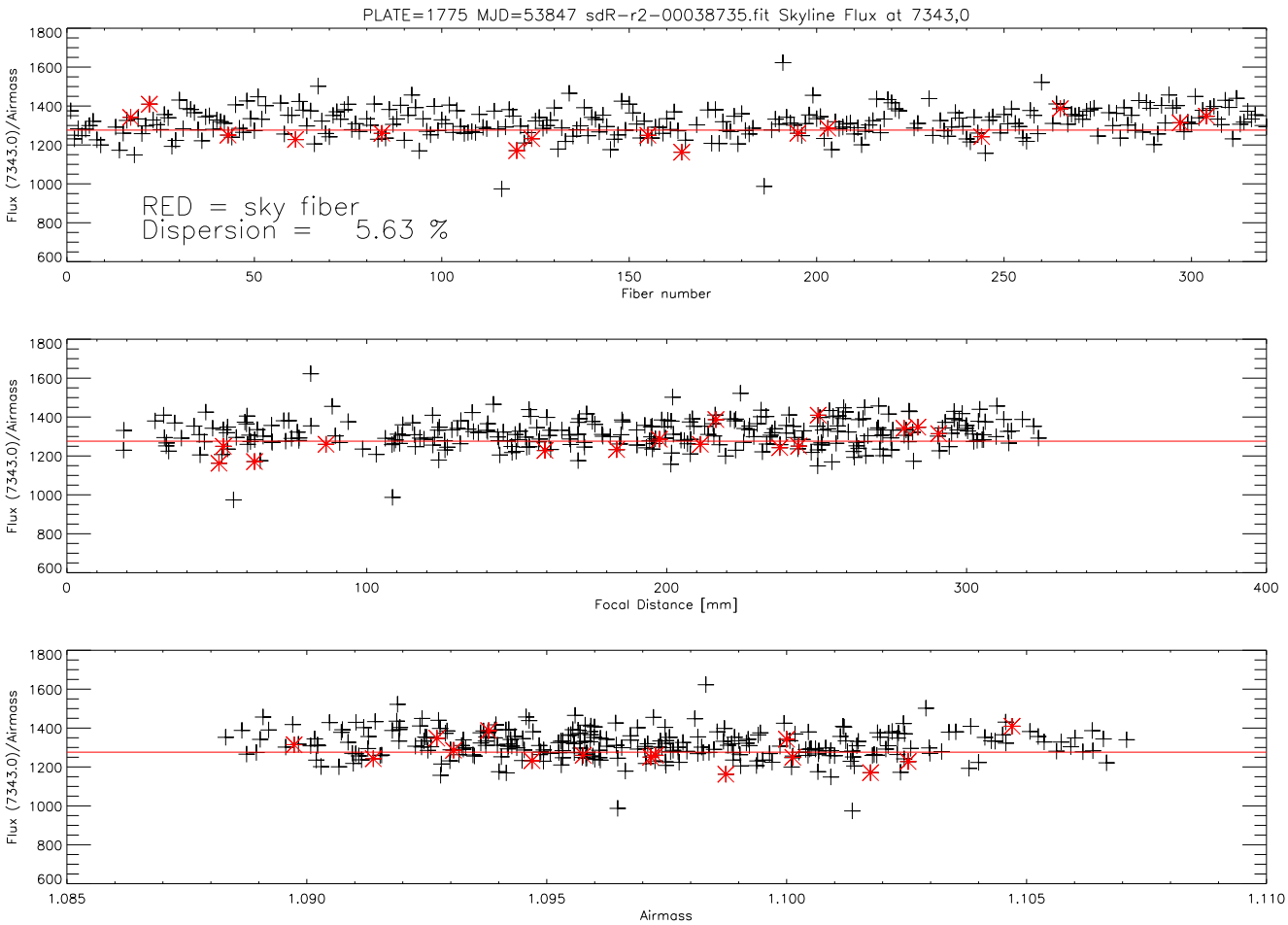

Number of sky fibers = 15
PLATE=1775 MJD=53847 sdR-r2-00038735.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

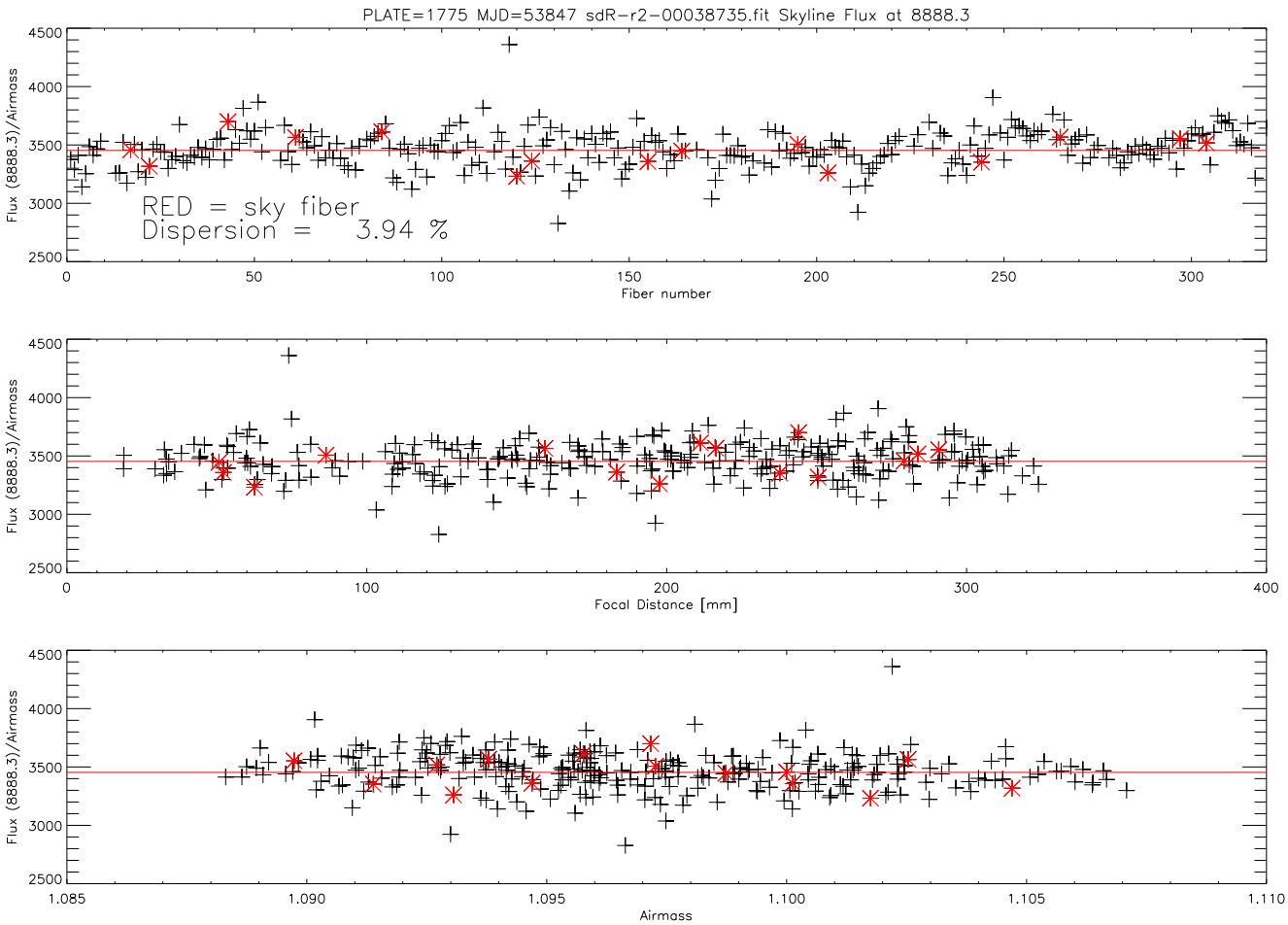

PLATE=1775 MJD=53847 sdR-r2-00038735.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

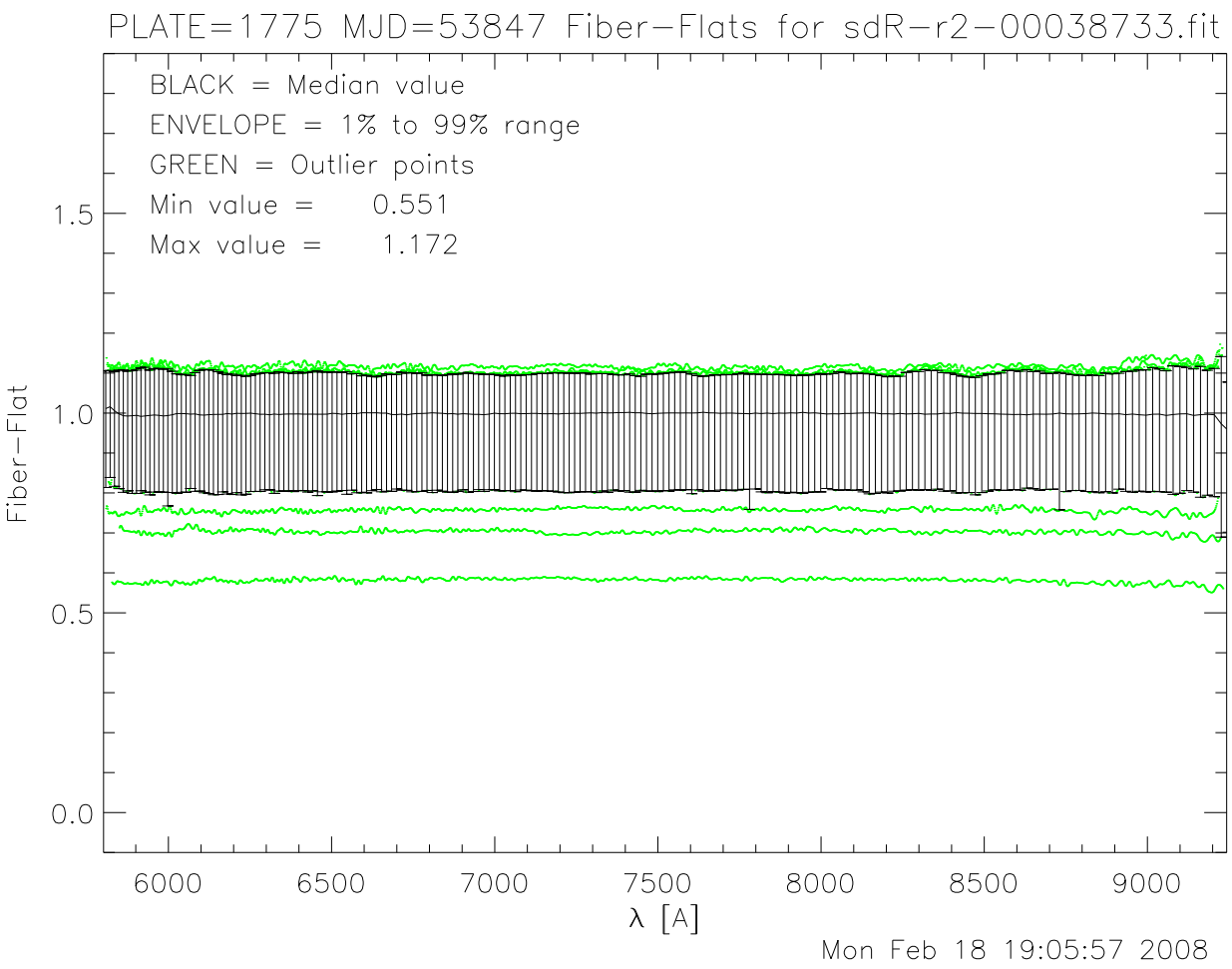

PLATE=1775 MJD=53847 sdR-r2-00038735.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

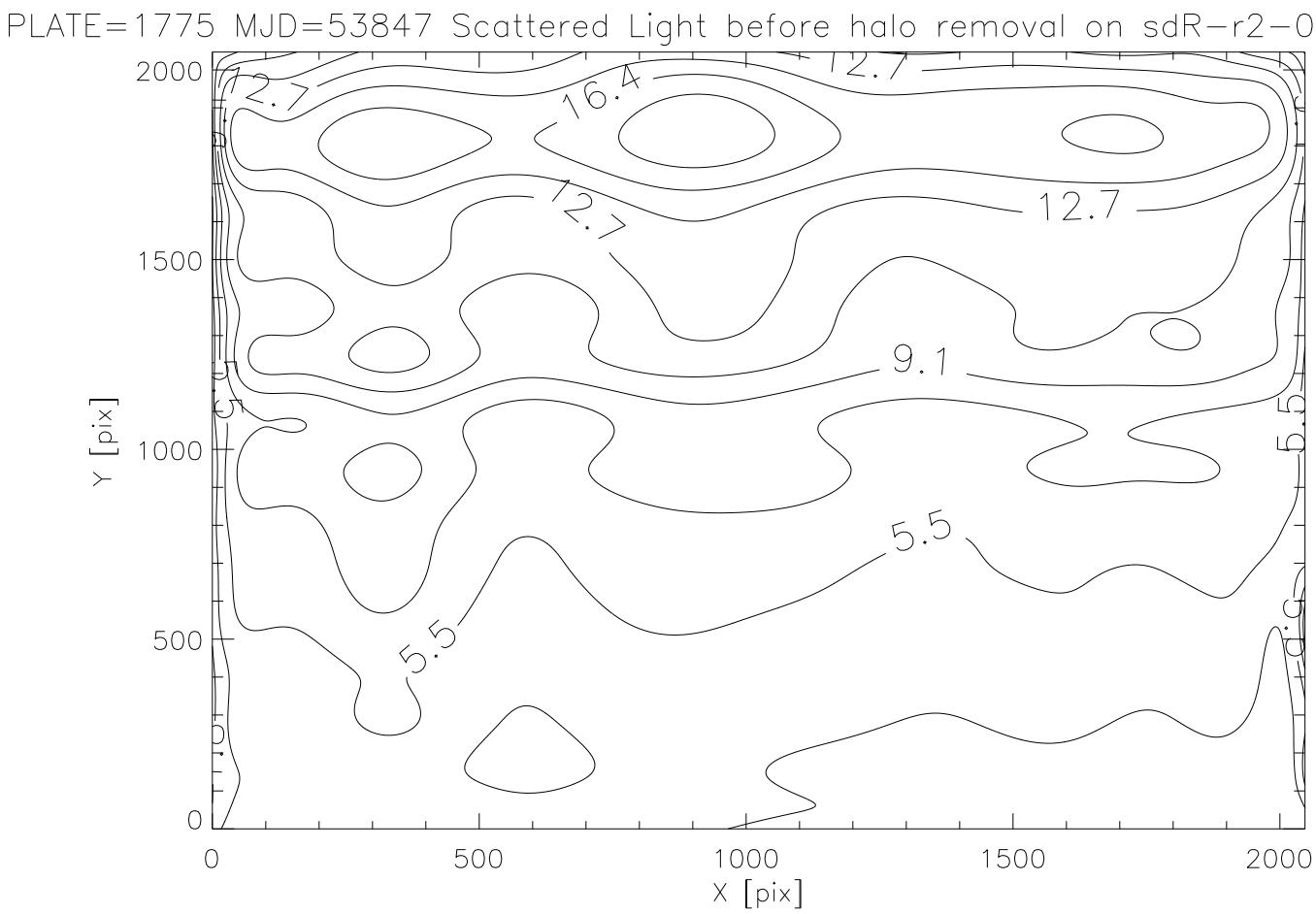

PLATE=1775 MJD=53847 sdR-r2-00038735.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
5000
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

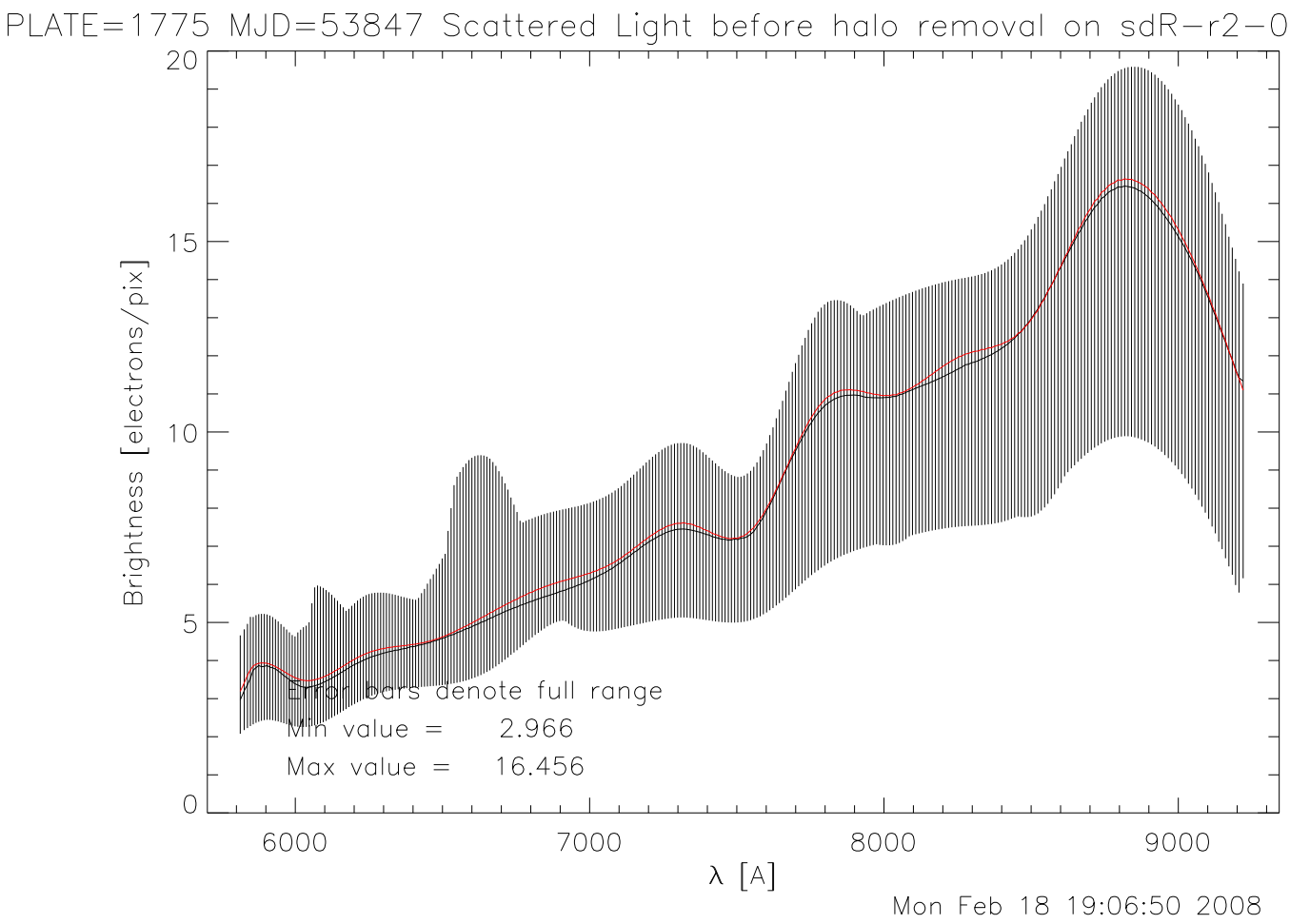

Number of sky fibers = 15
PLATE=1775 MJD=53847 sdR-r2-00038735.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

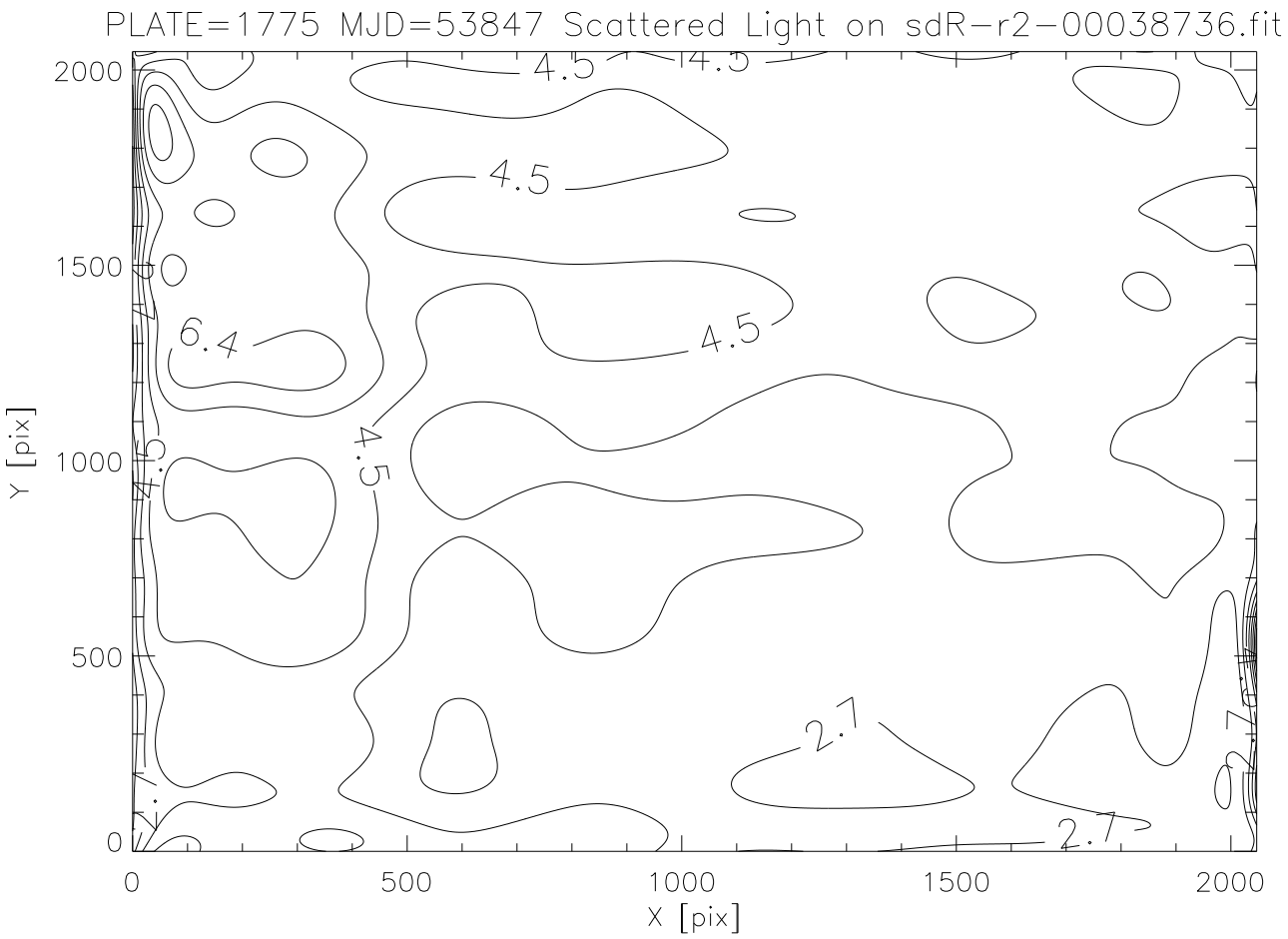

PLATE=1775 MJD=53847 sdR-r2-00038735.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 5.63 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

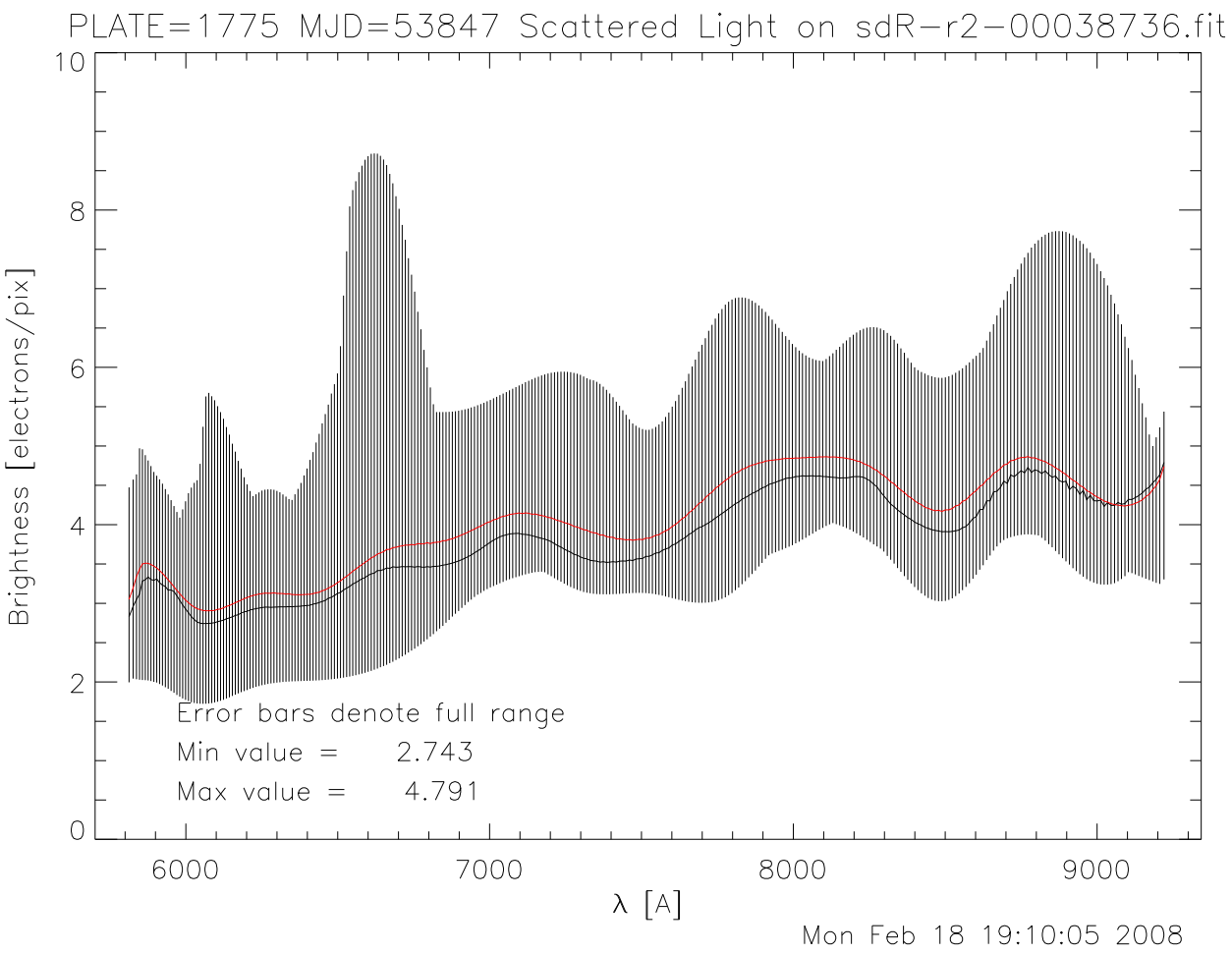

PLATE=1775 MJD=53847 sdR-r2-00038735.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.94 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass


PLATE=1775 MJD=53847 Fiber−Flats for sdR−r2−00038733.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.551
Max value = 1.172
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 18 19:05:57 2008


PLATE=1775 MJD=53847 Scattered Light before halo removal on sdR-r2-00038736.fi
12.7
16.4
12.7
12.7
9.1
5.5
5.5
5.5
5.5
Y [pix]
X [pix]
0
500
1000
1500
2000


PLATE=1775 MJD=53847 Scattered Light before halo removal on sdR-r2-00038736.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 2.966
Max value = 16.456
Mon Feb 18 19:06:50 2008


PLATE=1775 MJD=53847 Scattered Light on sdR-r2-00038736.fit
4.5
4.5
4.5
6.4
4.5
4.5
4.5
2.1
2.7
2.7
2.7
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]


PLATE=1775 MJD=53847 Scattered Light on sdR-r2-00038736.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 2.743
Max value = 4.791
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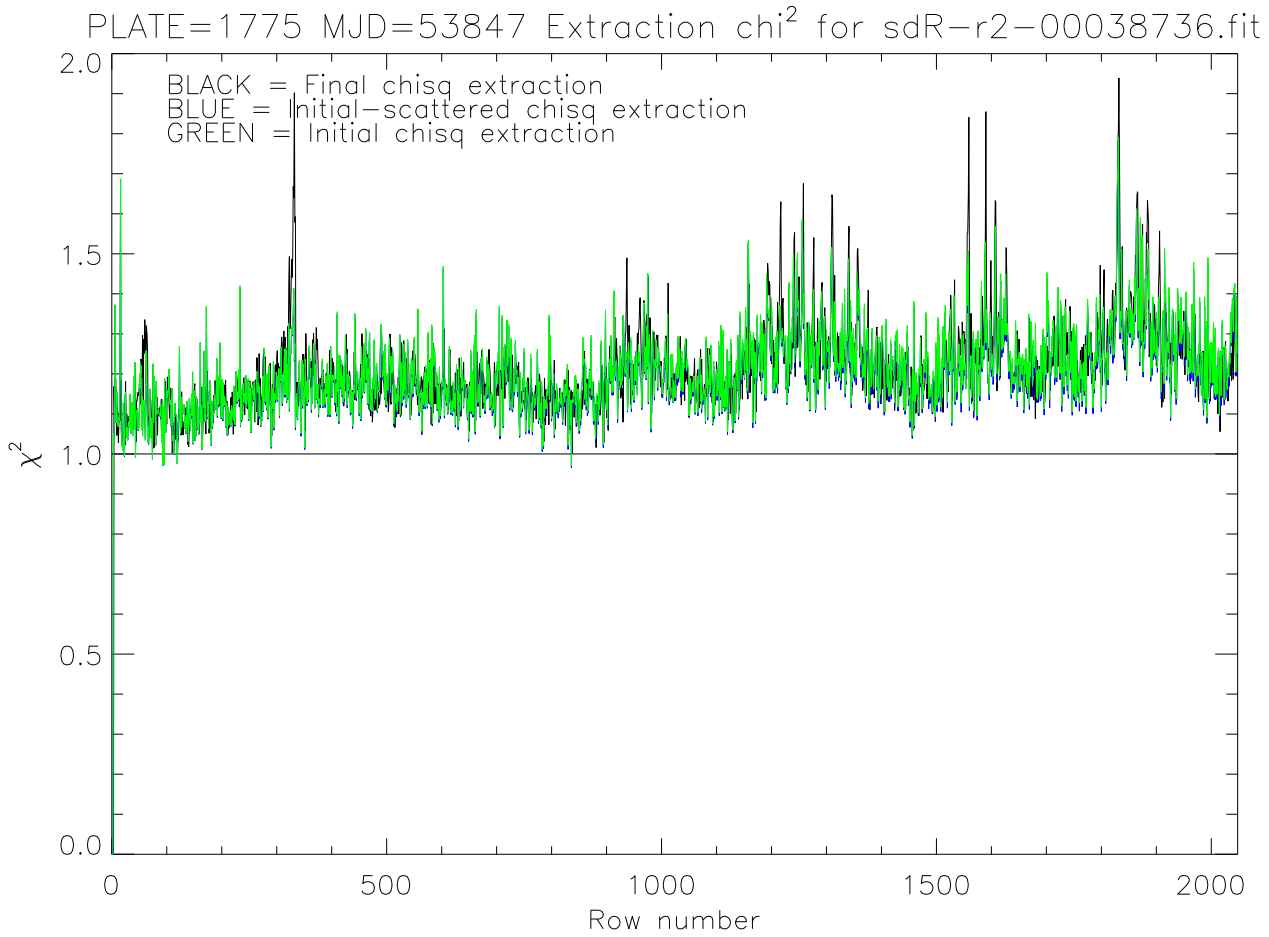
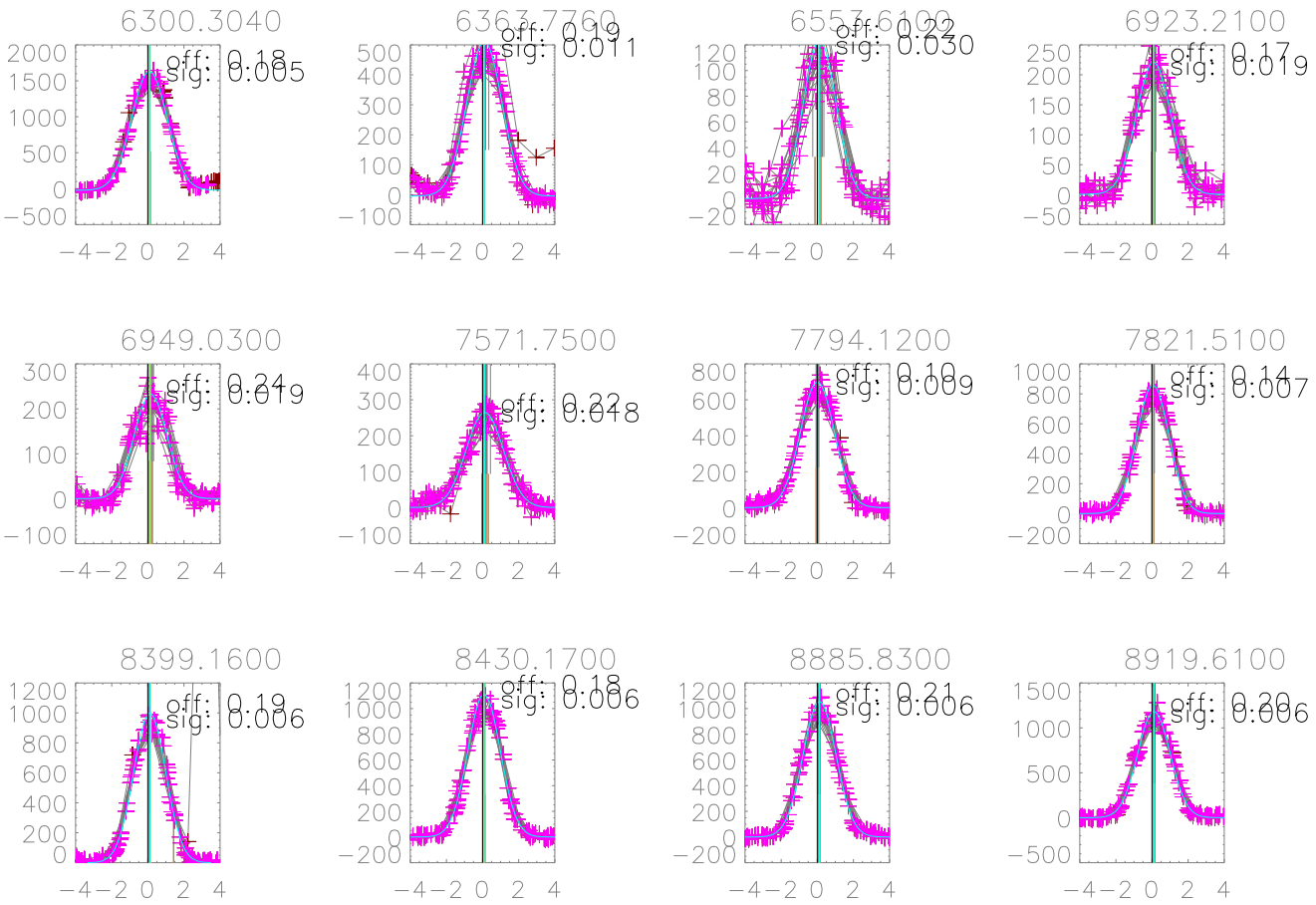
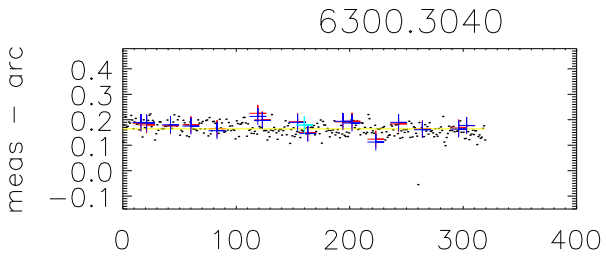
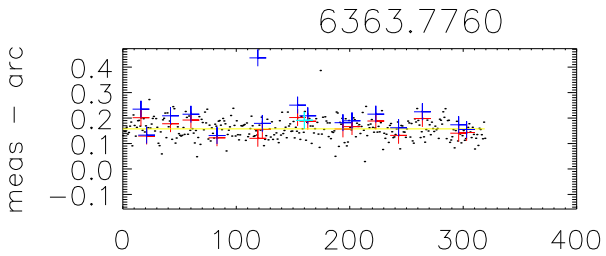
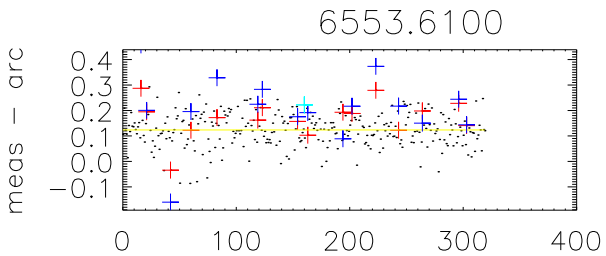
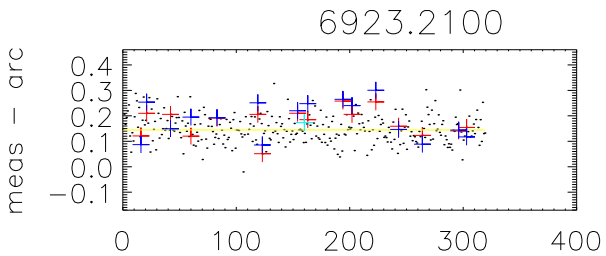

PLATE=1775 MJD=53847 Extraction chi^2 for sdR-r2-00038736.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

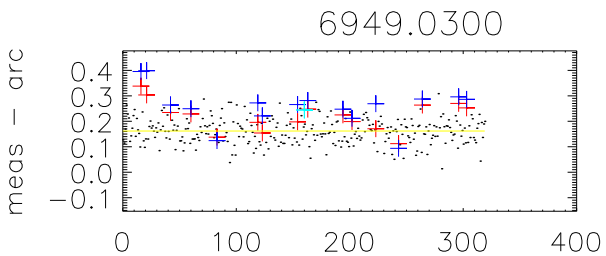

6300.3040
off: 0.18
sig: 0.005
6363.7760
off: 0.19
sig: 0.011
6557.6100
off: 0.22
sig: 0.030
6923.2100
off: 0.17
sig: 0.019
6949.0300
off: 0.24
sig: 0.019
7571.7500
off: 0.22
sig: 0.048
7794.1200
off: 0.10
sig: 0.009
7821.5100
off: 0.14
sig: 0.007
8399.1600
off: 0.19
sig: 0.006
8430.1700
off: 0.18
sig: 0.006
8885.8300
off: 0.21
sig: 0.006
8919.6100
off: 0.20
sig: 0.006

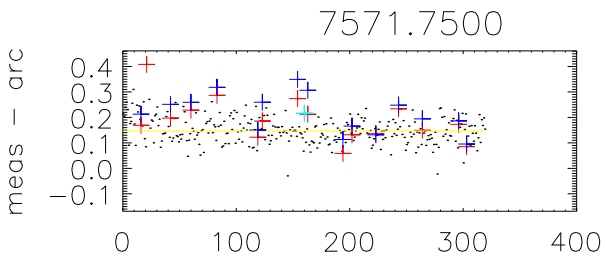

6300.3040
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

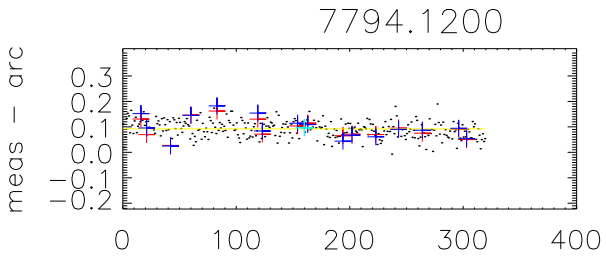

6363.7760
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

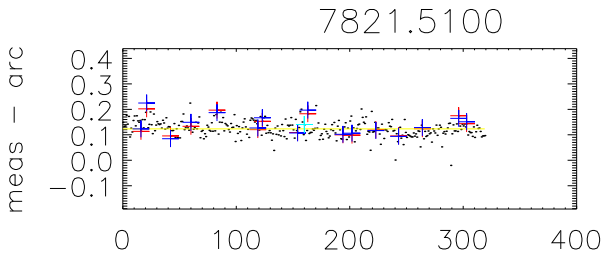

6553.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

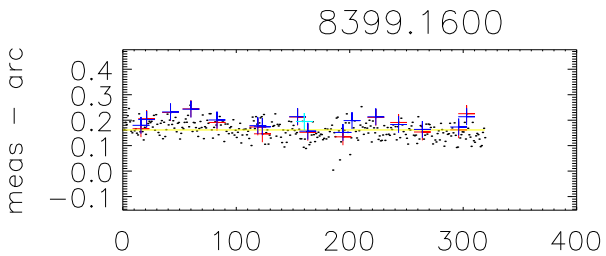

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

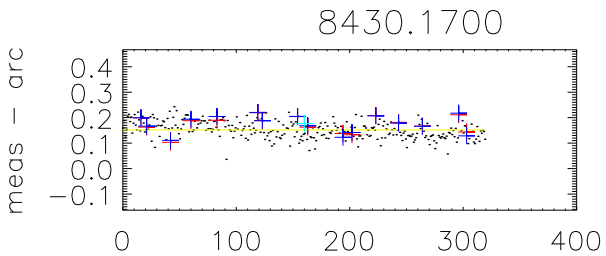

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

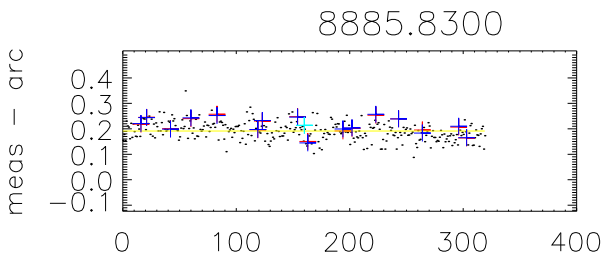

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

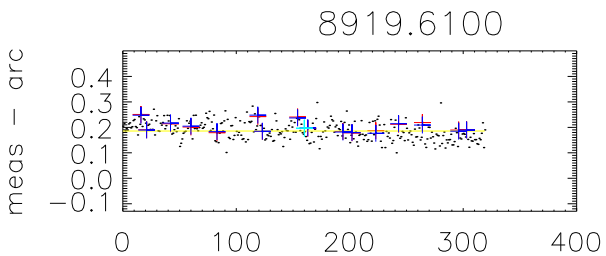

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

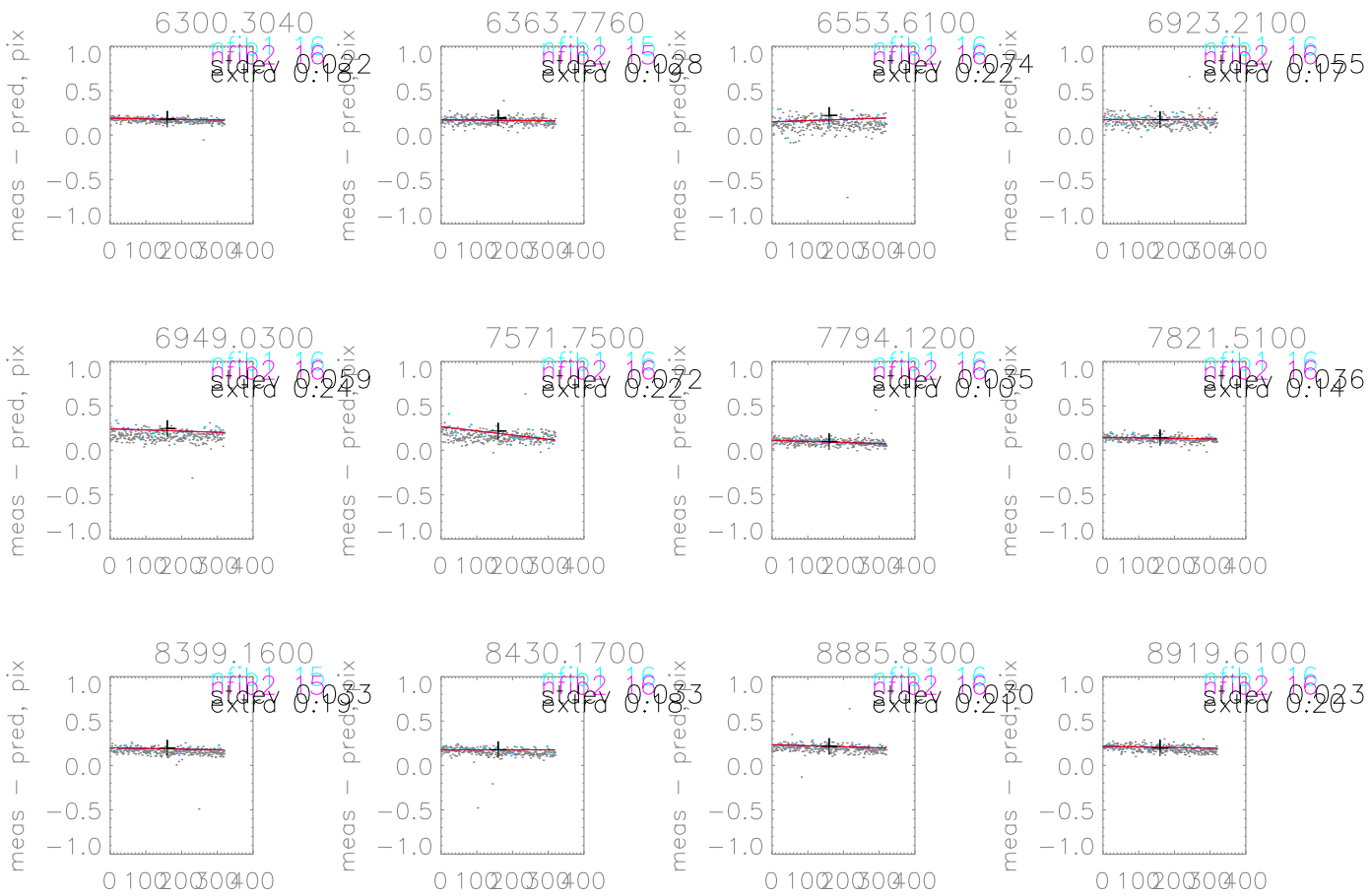

7821.5100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

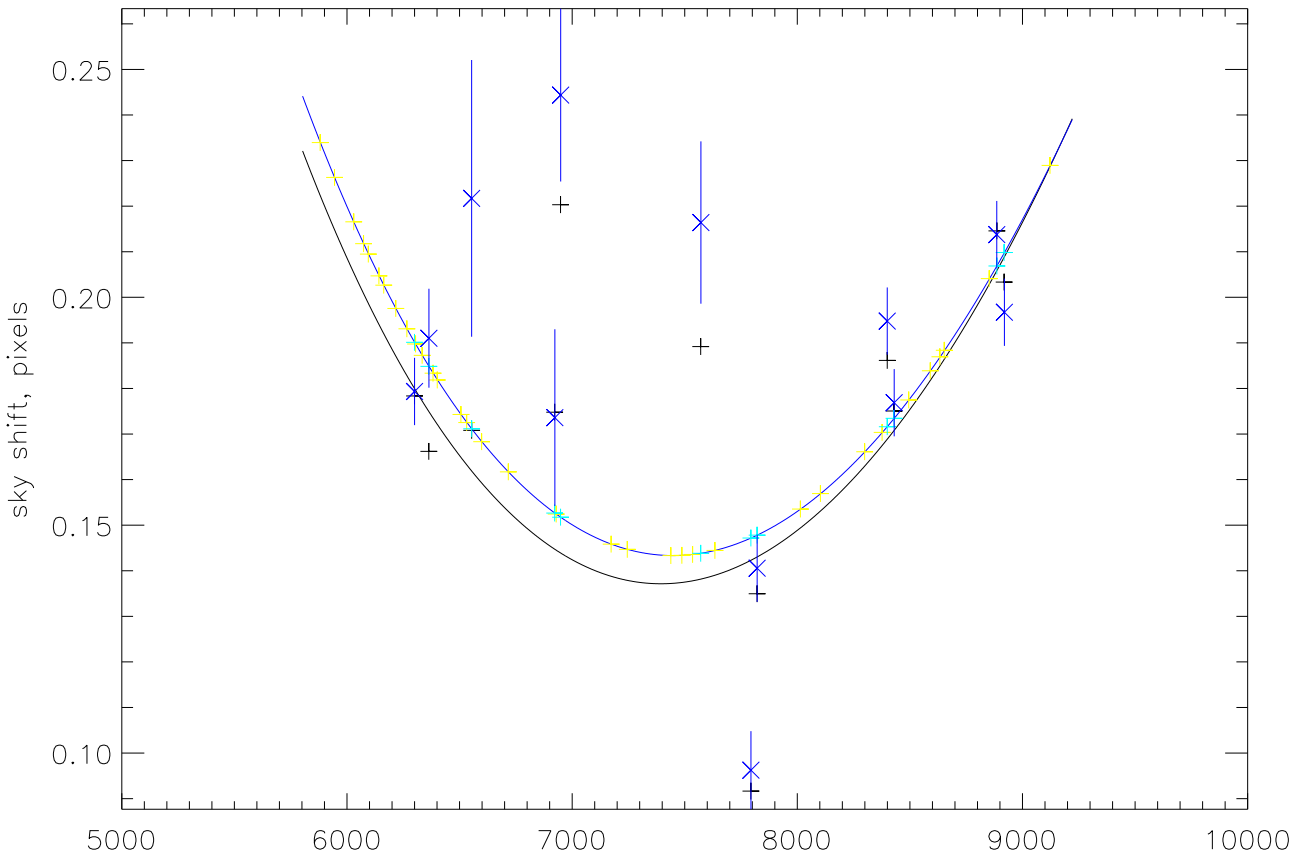

8399.1600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

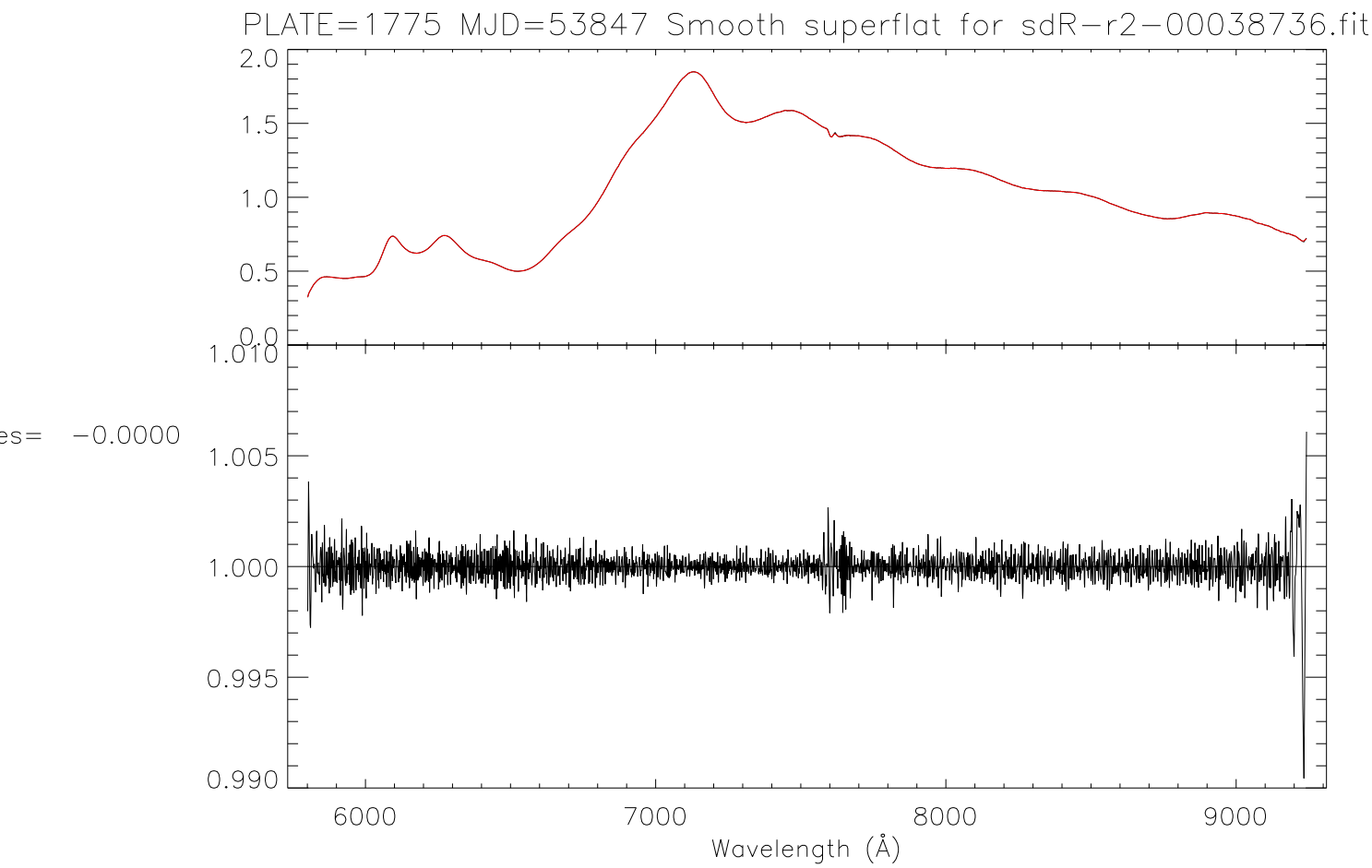

8430.1700
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

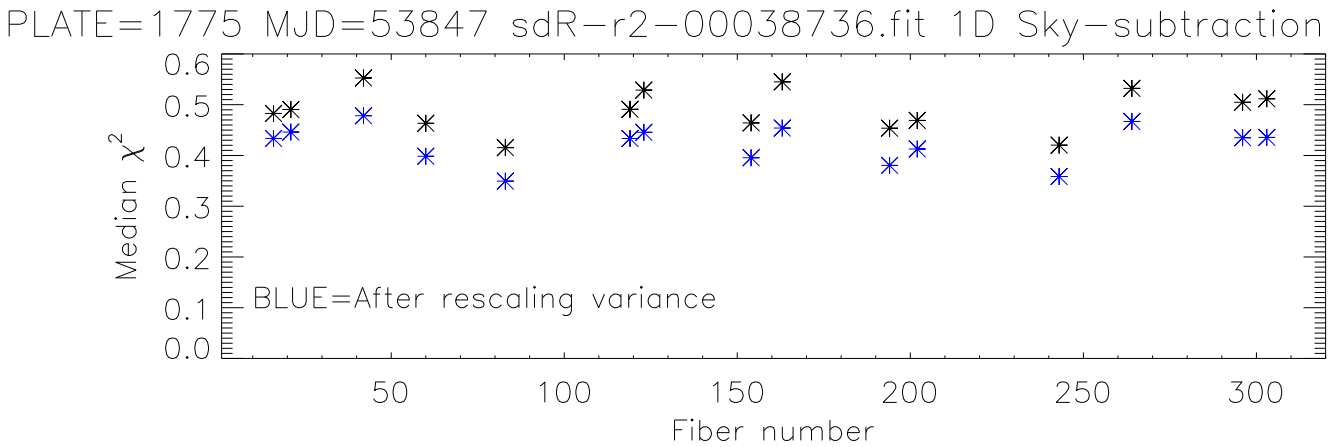

8919.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

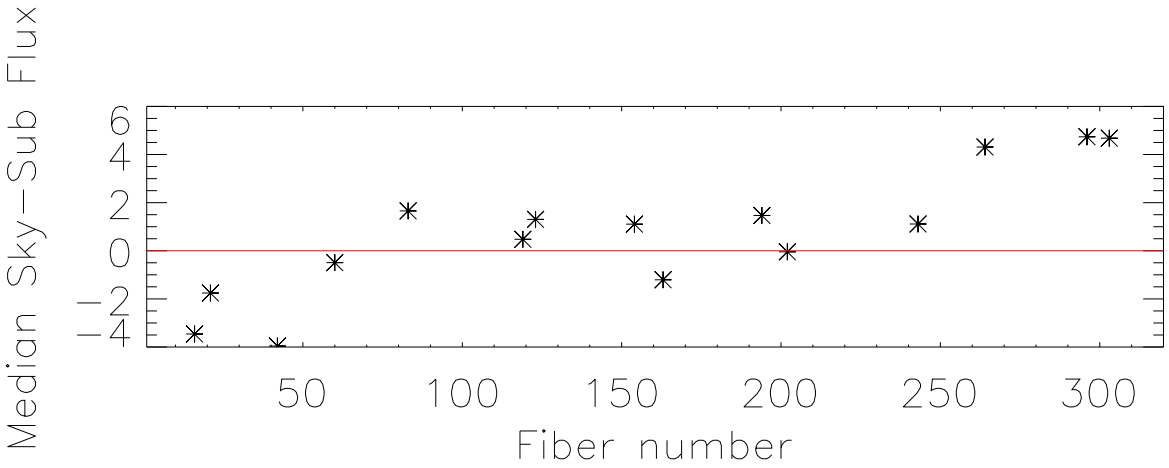

6300.3040
mfb2 16
stdev 0.022
extra 0.18
6363.7760
mfb2 15
stdev 0.028
extra 0.16
6553.6100
mfb2 16
stdev 0.074
extra 0.22
6923.2100
mfb2 16
stdev 0.055
extra 0.17
6949.0300
mfb2 16
stdev 0.059
extra 0.24
7571.7500
mfb2 16
stdev 0.072
extra 0.22
7794.1200
mfb2 16
stdev 0.035
extra 0.10
7821.5100
mfb2 16
stdev 0.036
extra 0.14
8399.1600
mfb2 15
stdev 0.033
extra 0.19
8430.1700
mfb2 16
stdev 0.033
extra 0.18
8885.8300
mfb2 16
stdev 0.030
extra 0.21
8919.6100
mfb2 16
stdev 0.023
extra 0.20
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

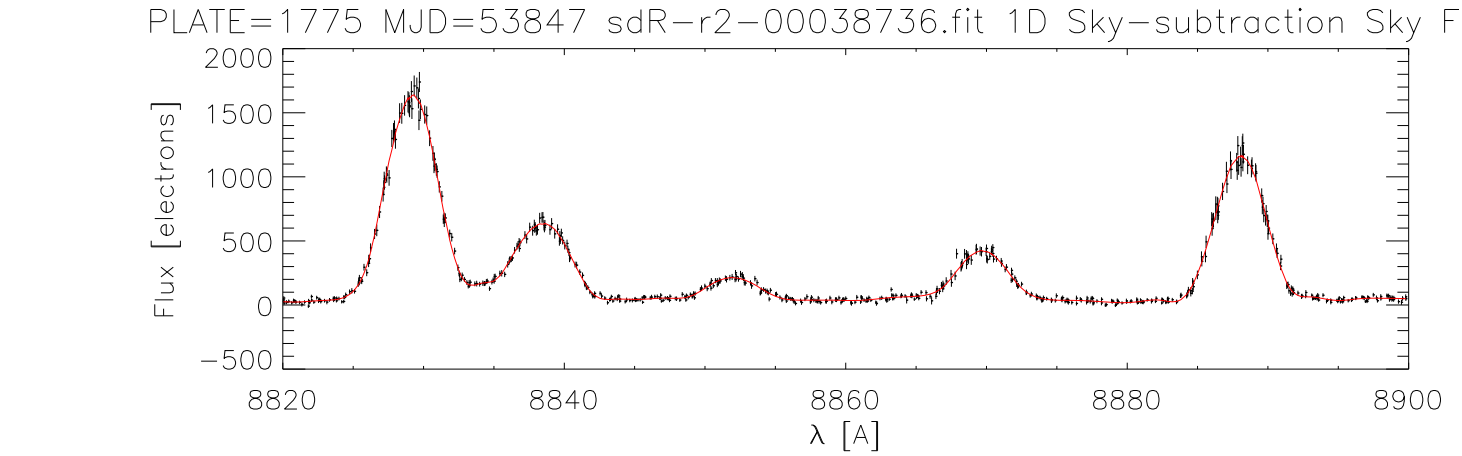

0.25
0.20
0.15
0.10
sky shift, pixels
5000
6000
7000
8000
9000
10000

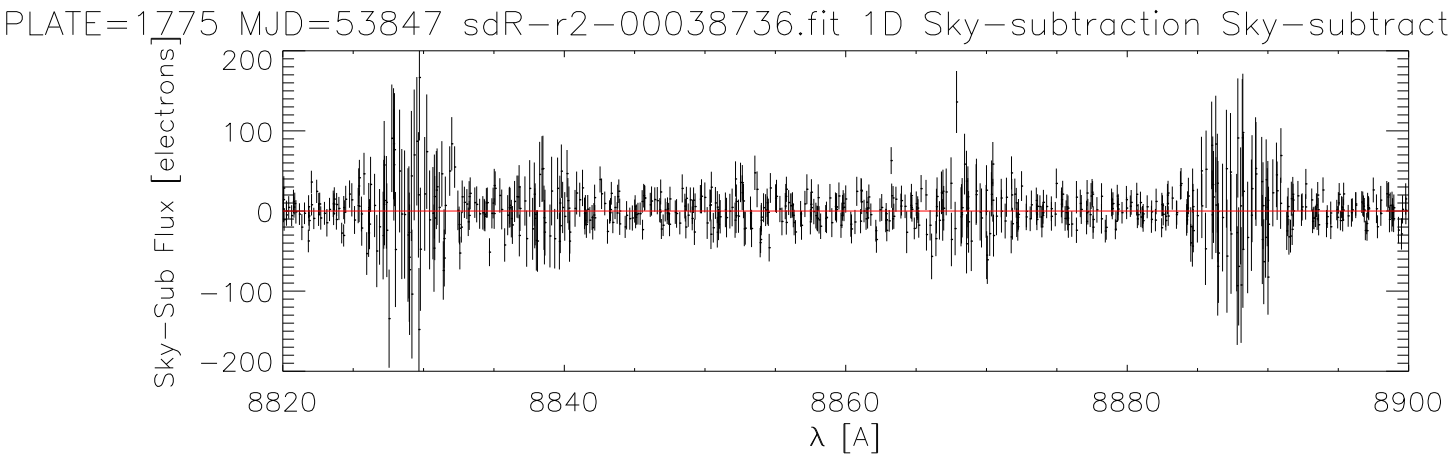

PLATE=1775 MJD=53847 Smooth superflat for sdR-r2-00038736.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

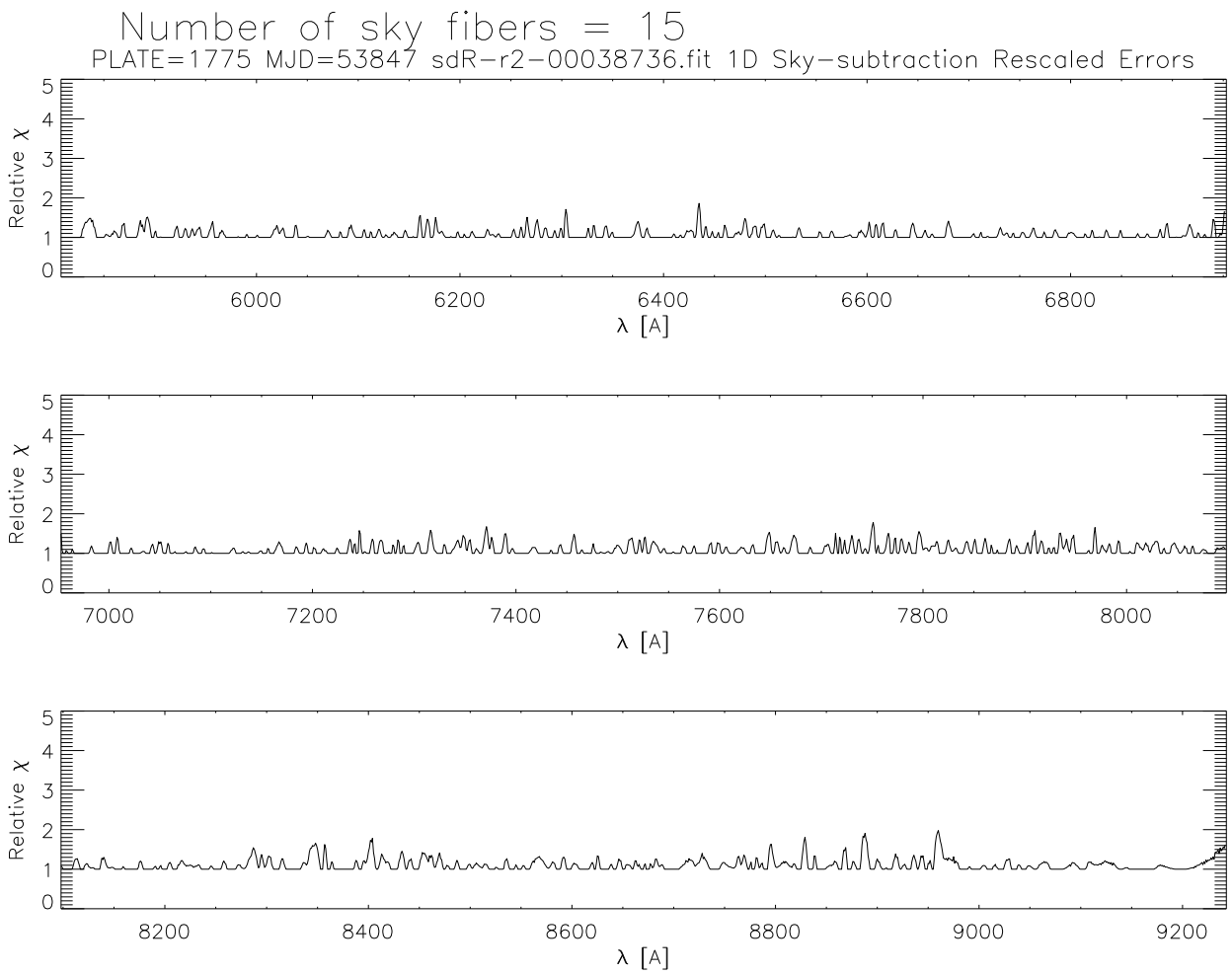
es= −0.0000

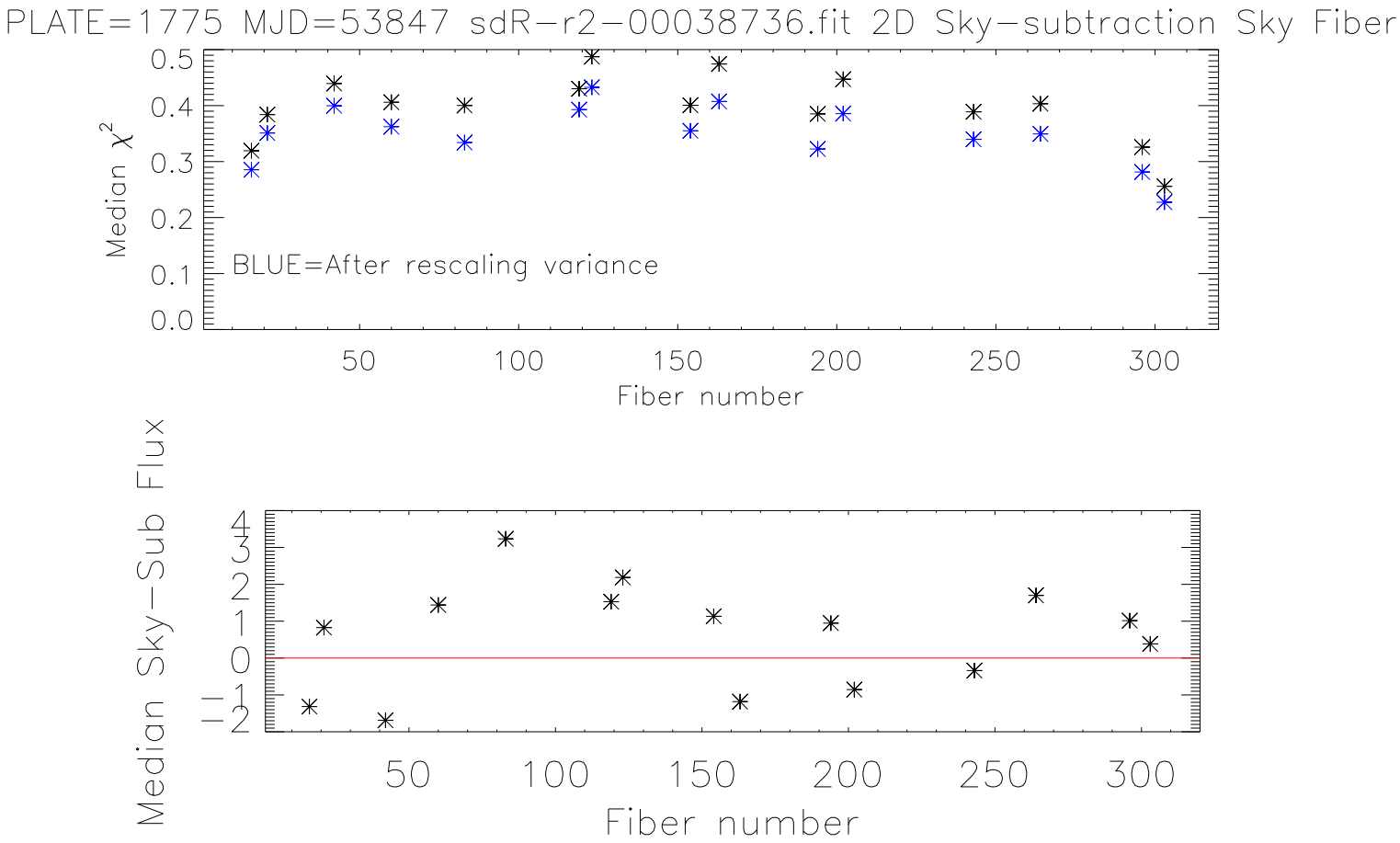

PLATE=1775 MJD=53847 sdR-r2-00038736.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

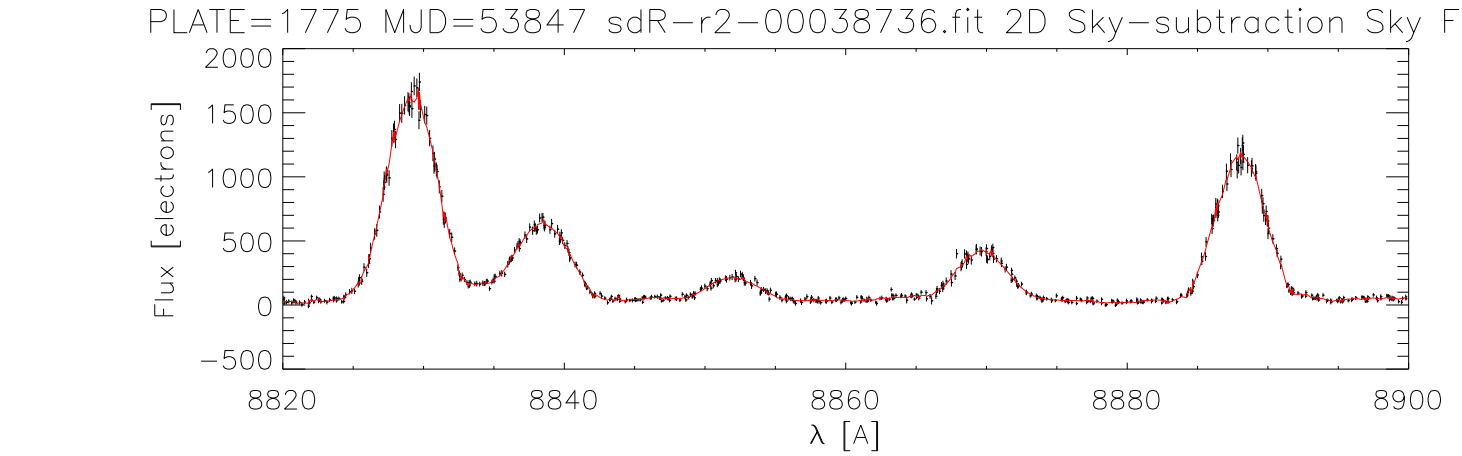

Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

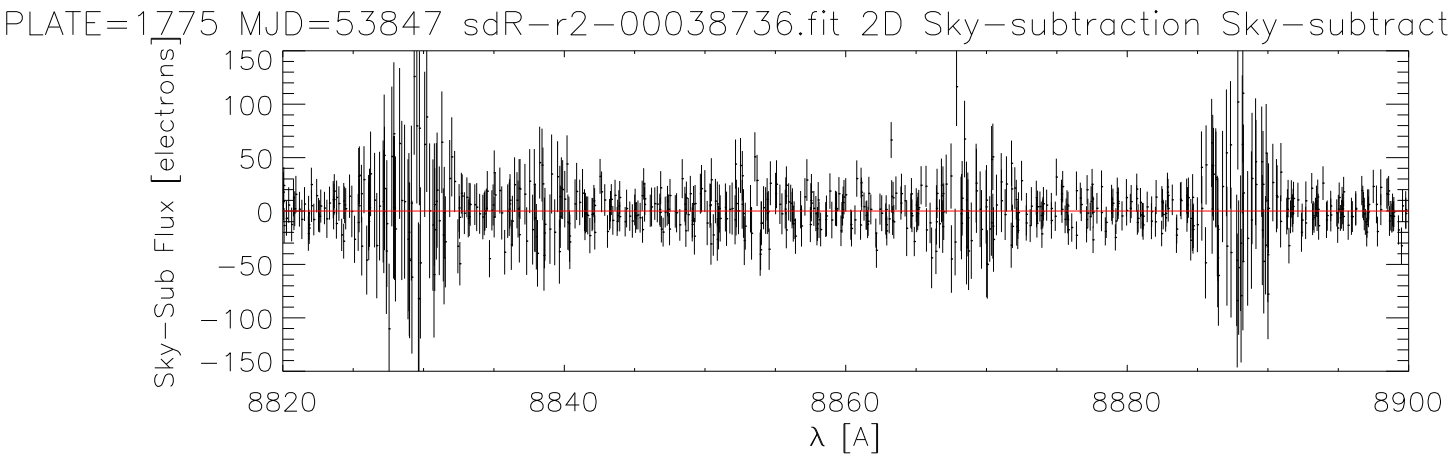

PLATE=1775 MJD=53847 sdR-r2-00038736.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

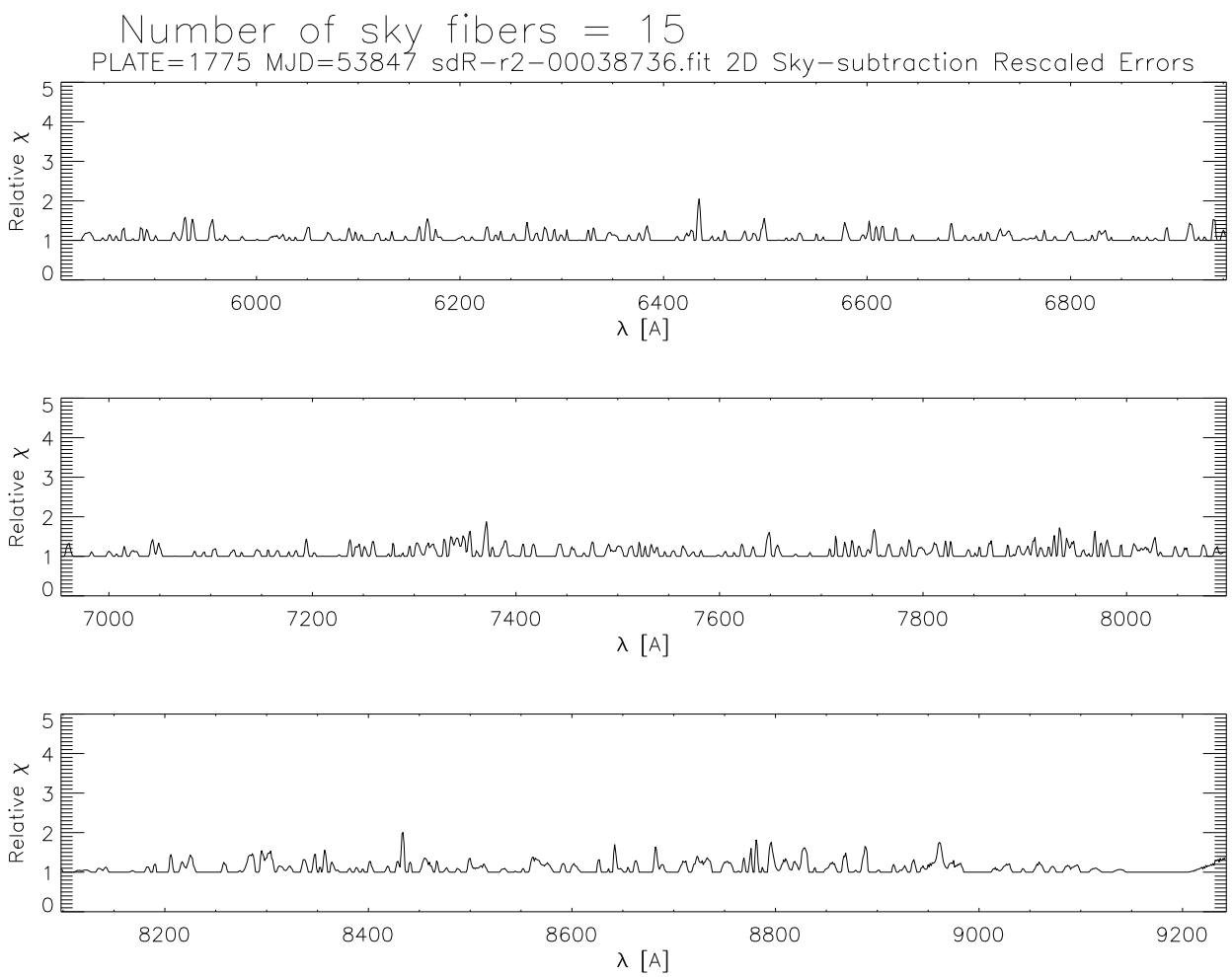

PLATE=1775 MJD=53847 sdR-r2-00038736.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

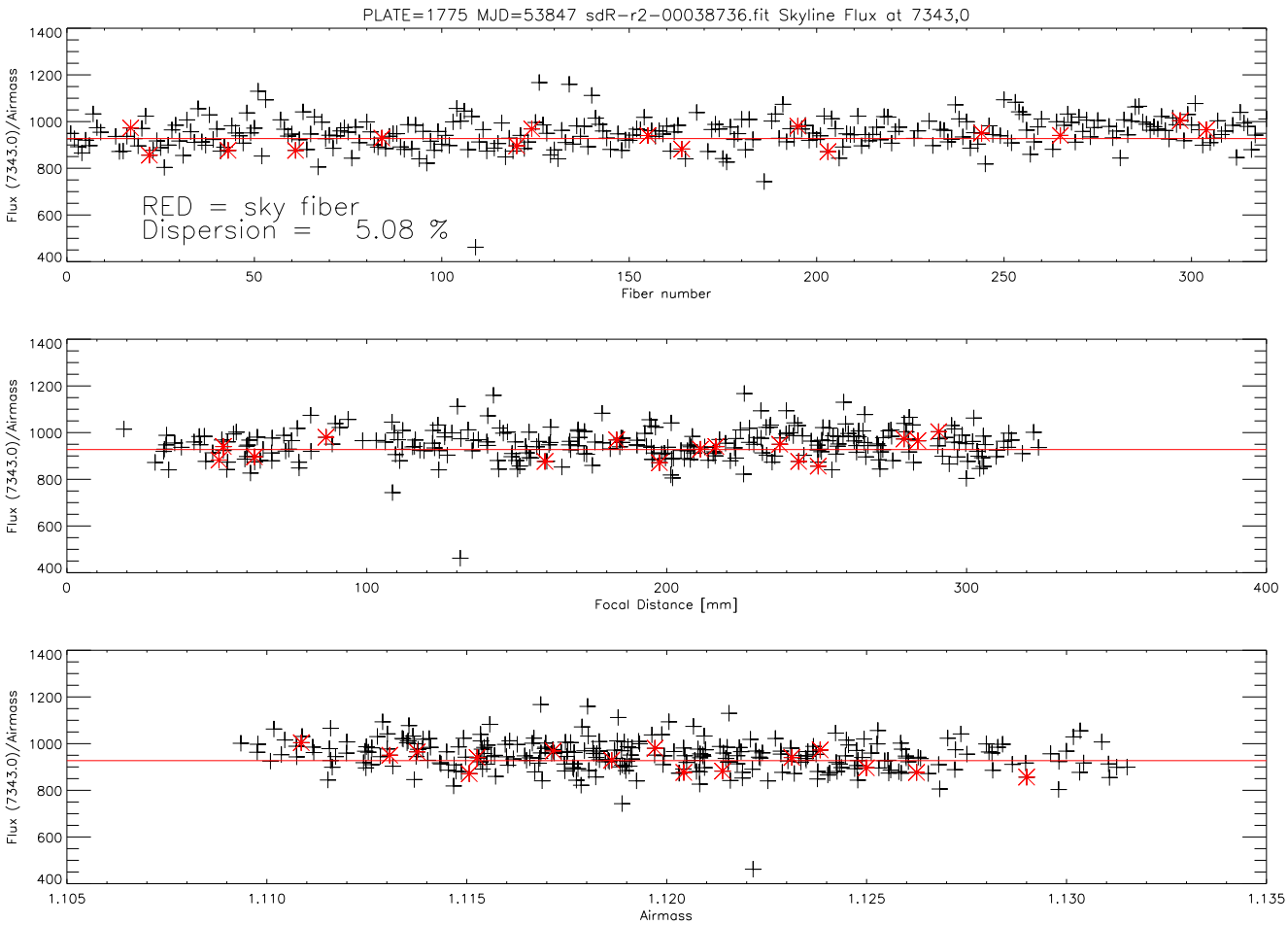

Number of sky fibers = 15
PLATE=1775 MJD=53847 sdR-r2-00038736.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

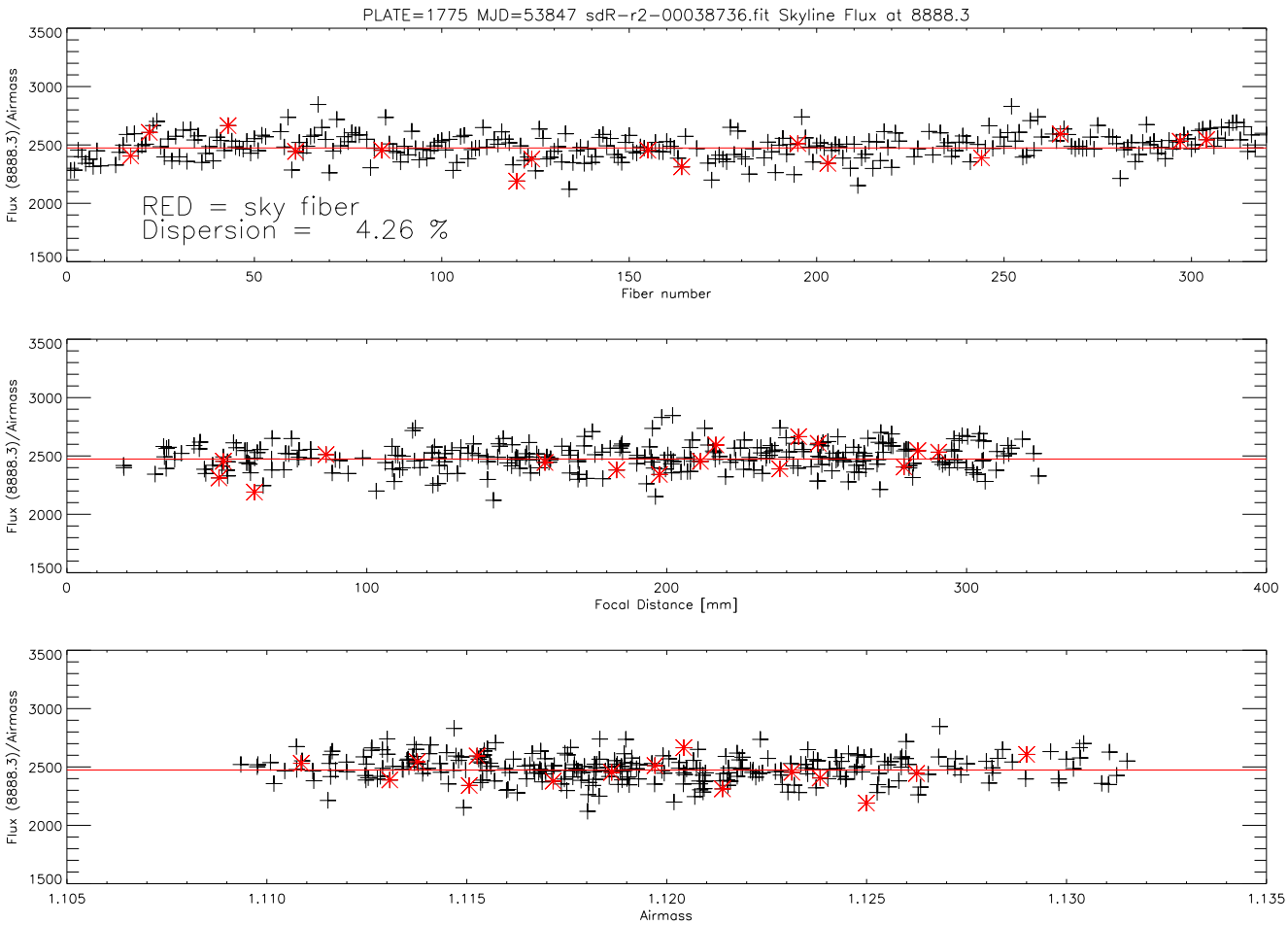

PLATE=1775 MJD=53847 sdR-r2-00038736.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
4
50
100
150
200
250
300
Fiber number

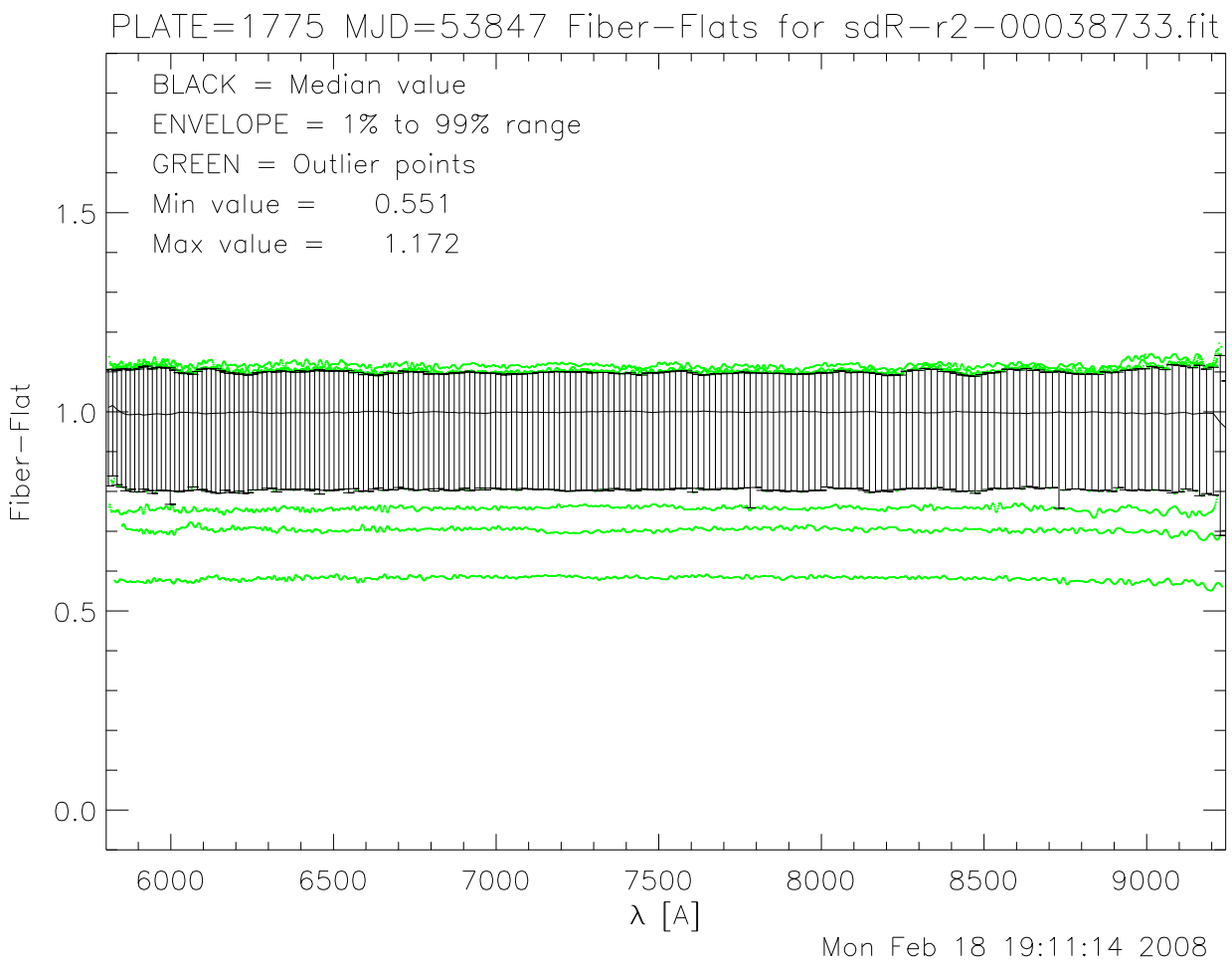

PLATE=1775 MJD=53847 sdR-r2-00038736.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

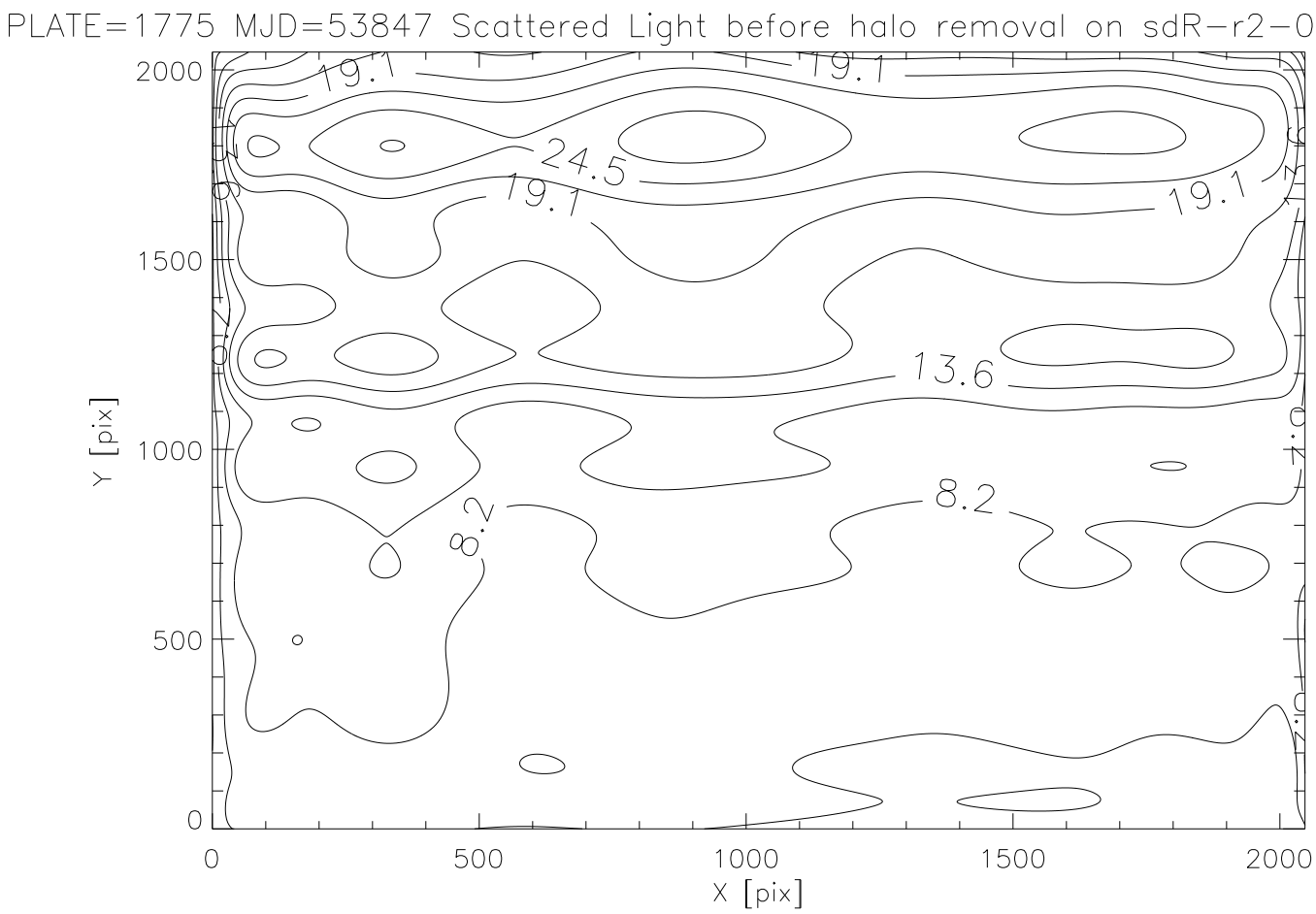

PLATE=1775 MJD=53847 sdR-r2-00038736.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
8820
8840
8860
8880
8900
λ [A]

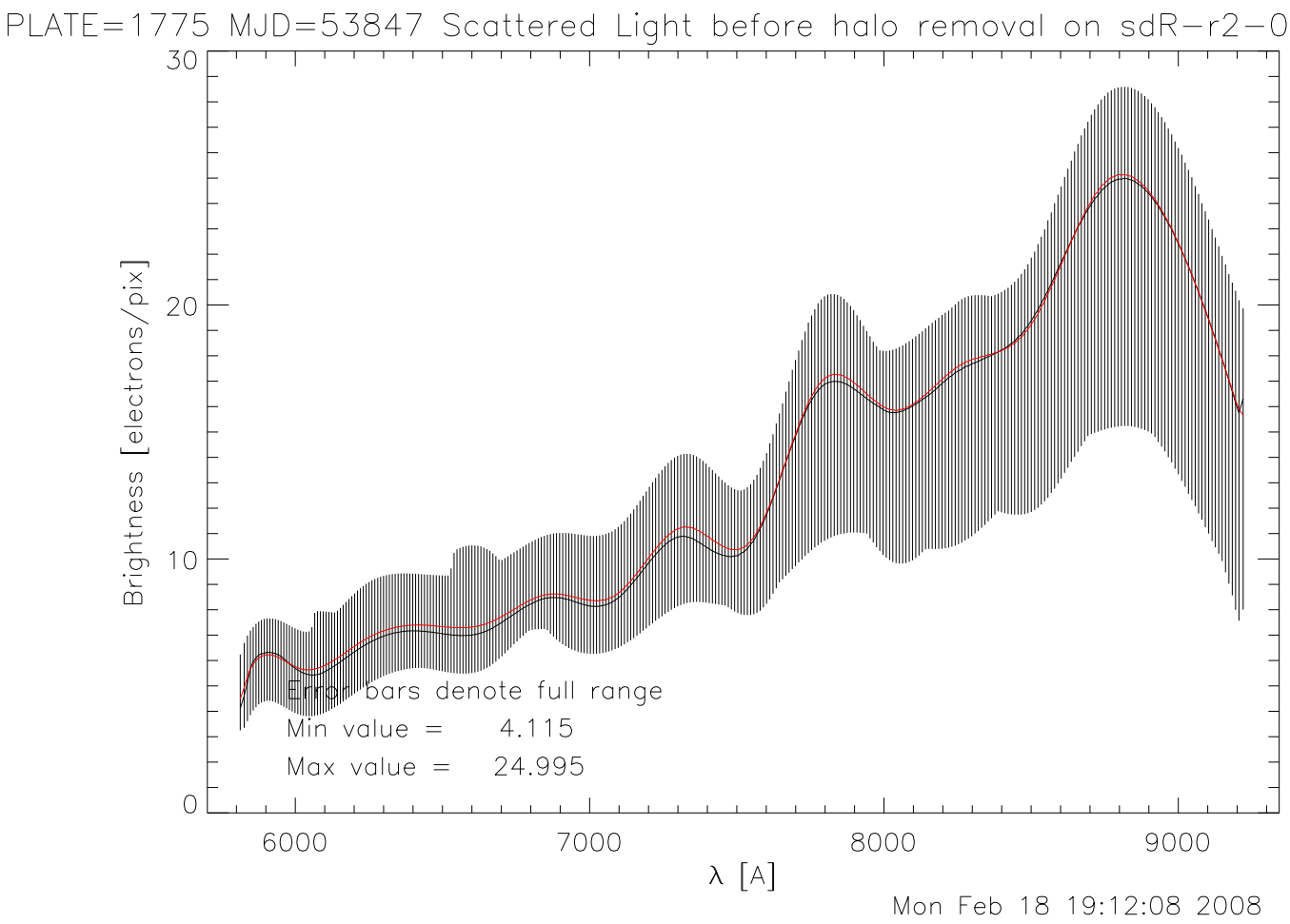

Number of sky fibers = 15
PLATE=1775 MJD=53847 sdR-r2-00038736.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

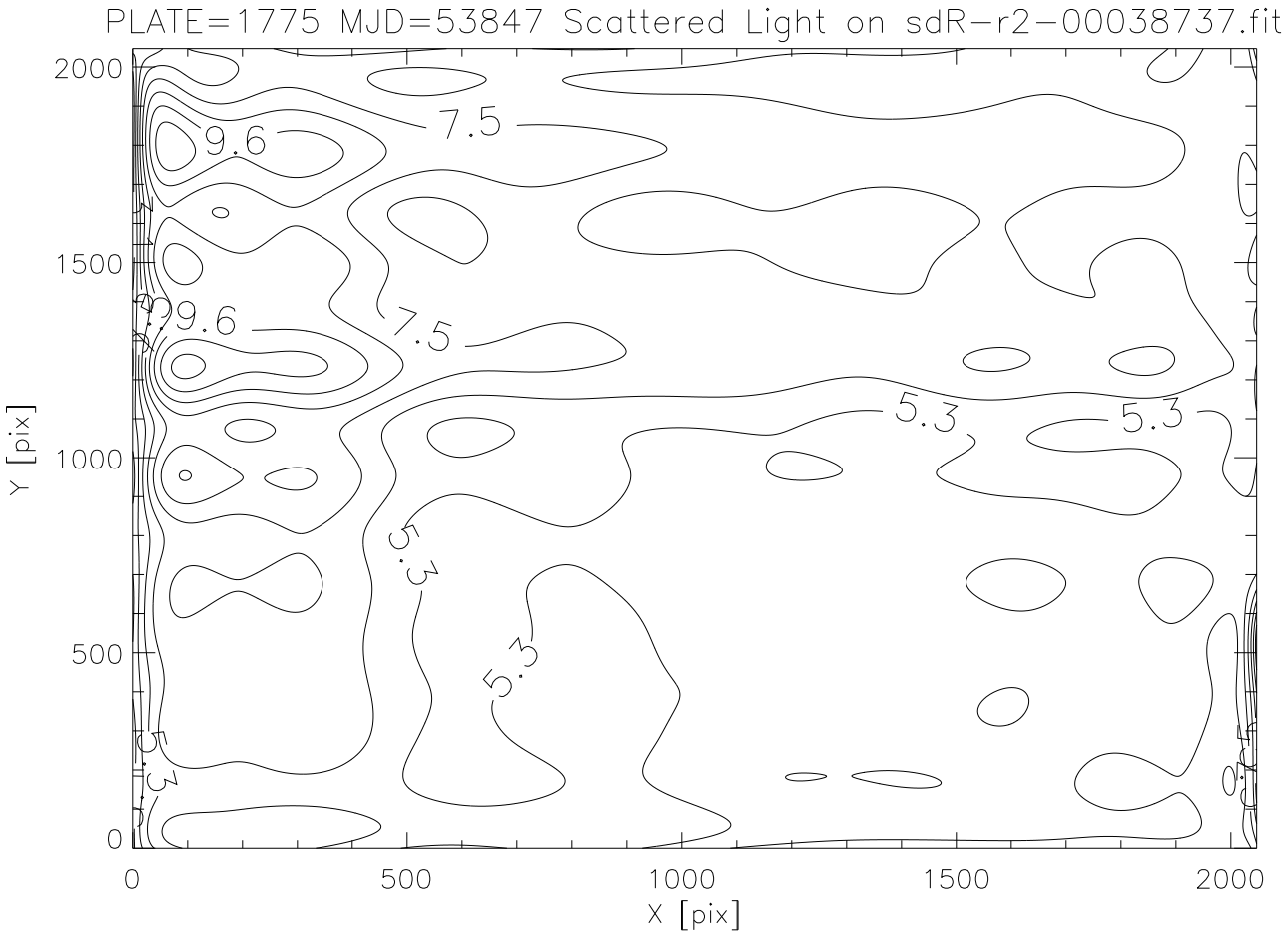

PLATE=1775 MJD=53847 sdR-r2-00038736.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 5.08 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

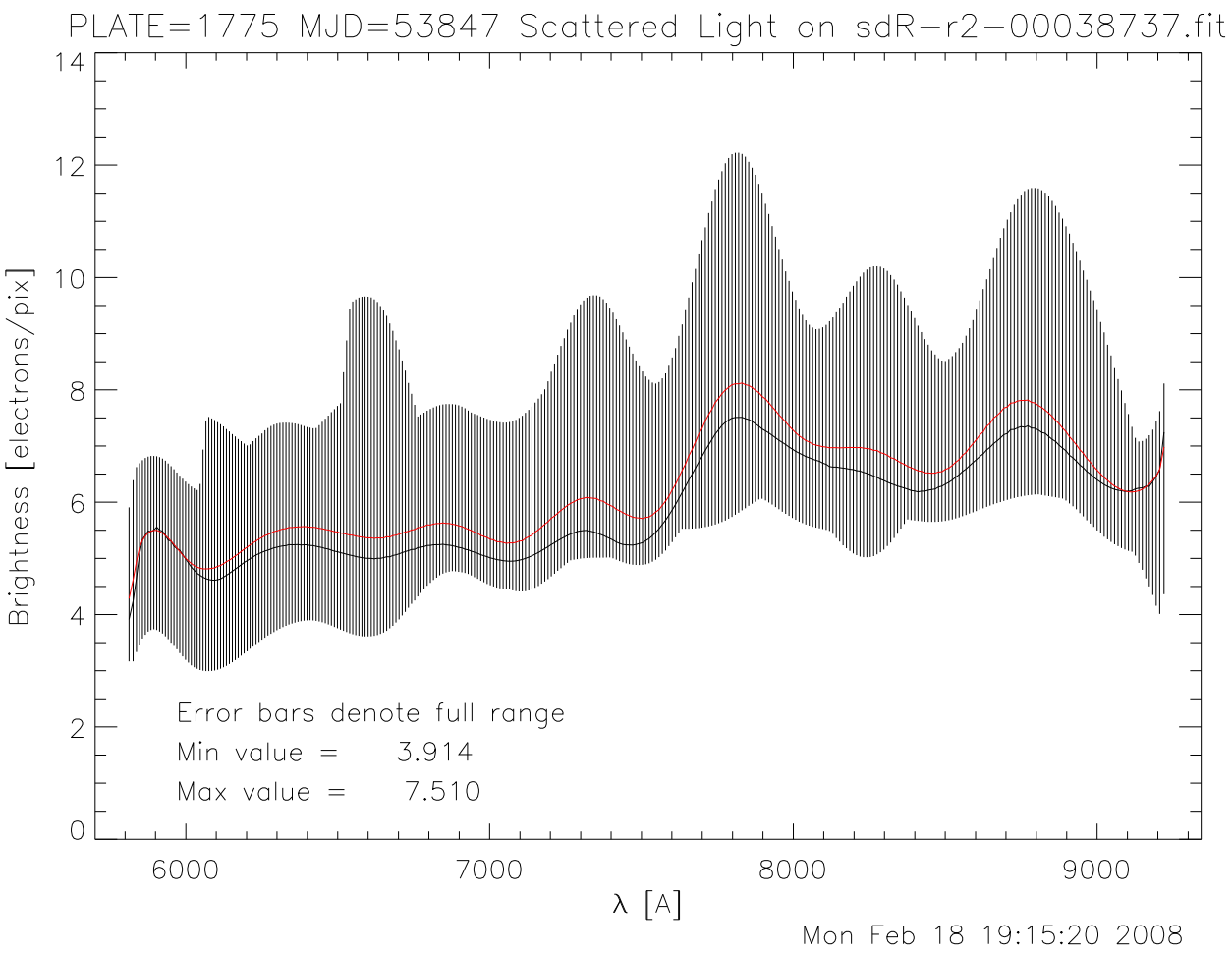

PLATE=1775 MJD=53847 sdR-r2-00038736.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 4.26 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

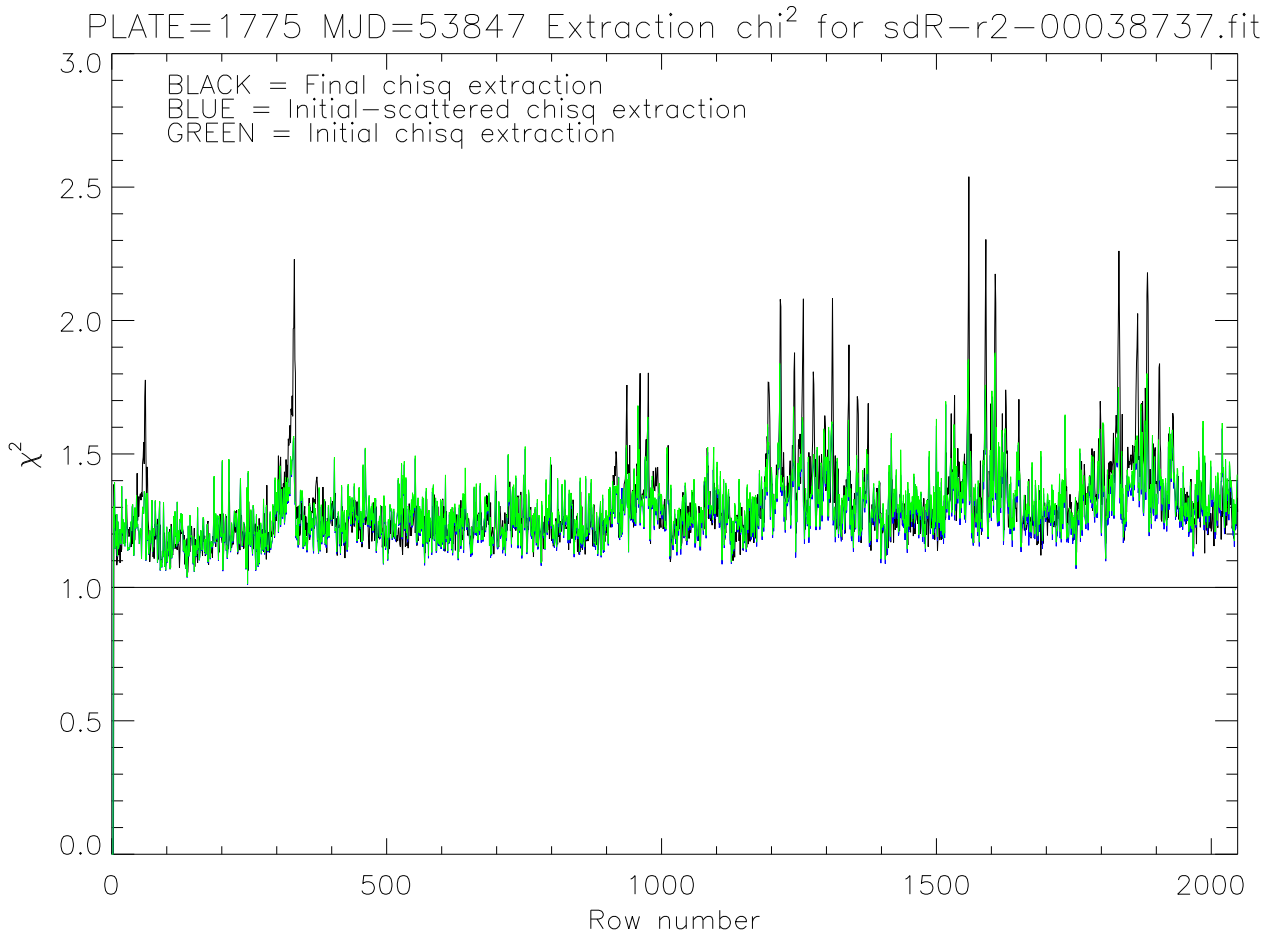

PLATE=1775 MJD=53847 Fiber−Flats for sdR−r2−00038733.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.551
Max value = 1.172
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 18 19:11:14 2008

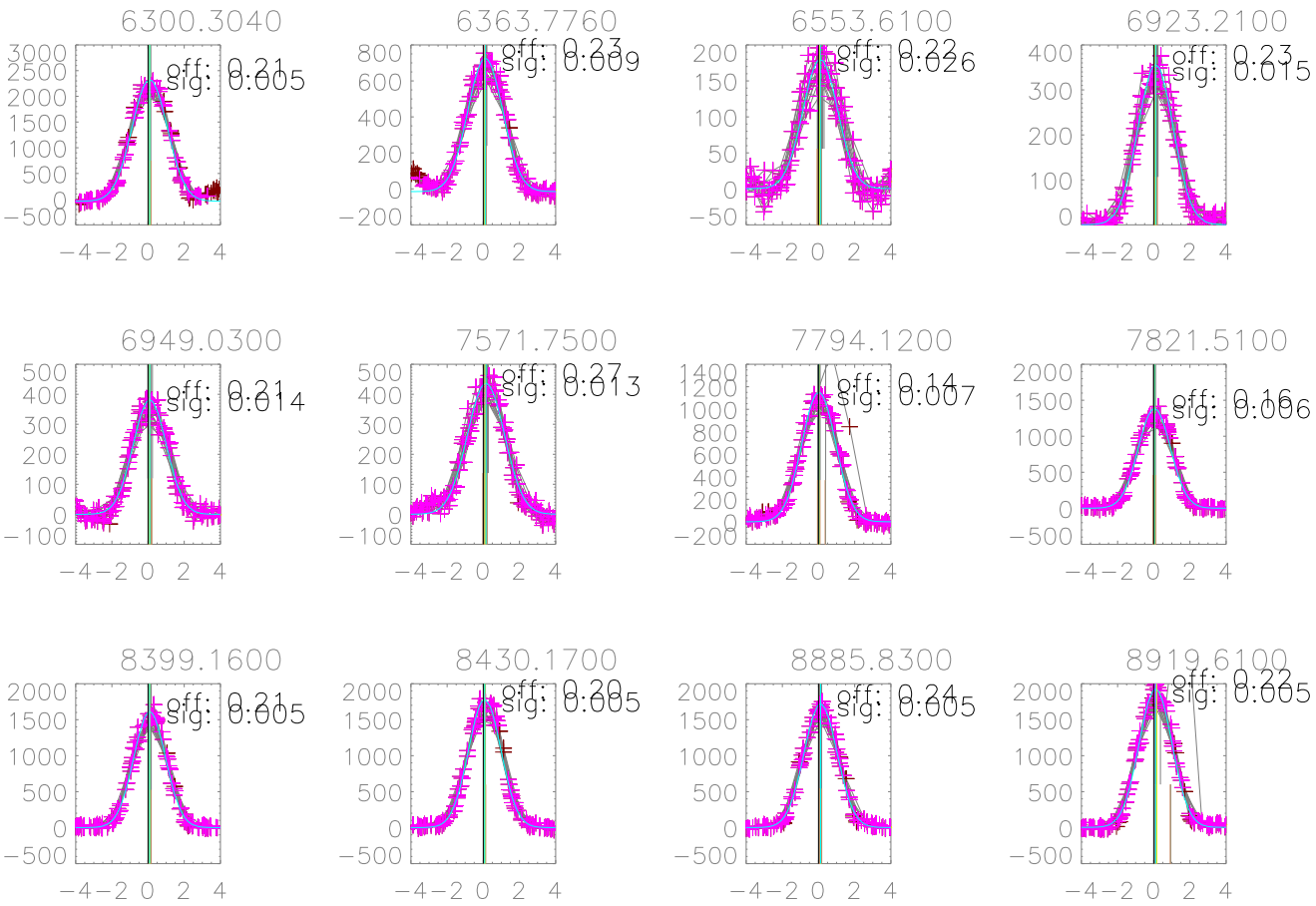

PLATE=1775 MJD=53847 Scattered Light before halo removal on sdR-r2-00038737.fi
19.1
19.1
24.5
19.1
19.1
13.6
8.2
8.2
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

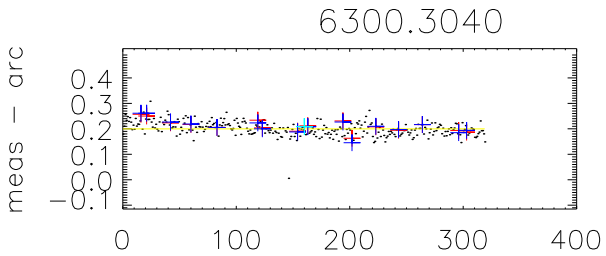

PLATE=1775 MJD=53847 Scattered Light before halo removal on sdR-r2-00038737.fi
Brightness [electrons/pix]
30
20
10
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 4.115
Max value = 24.995
Mon Feb 18 19:12:08 2008

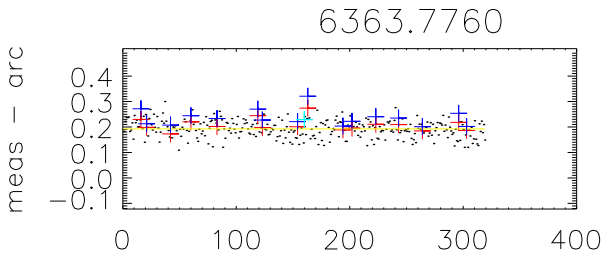

PLATE=1775 MJD=53847 Scattered Light on sdR-r2-00038737.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
9.6
7.5
5.3

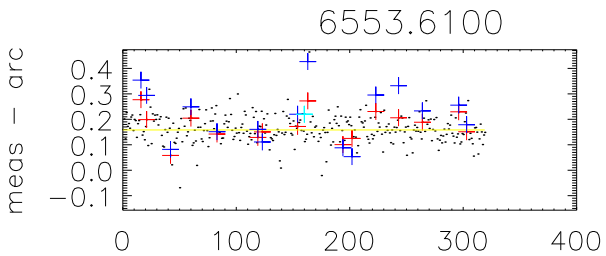

PLATE=1775 MJD=53847 Scattered Light on sdR-r2-00038737.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.914
Max value = 7.510
Mon Feb 18 19:15:20 2008

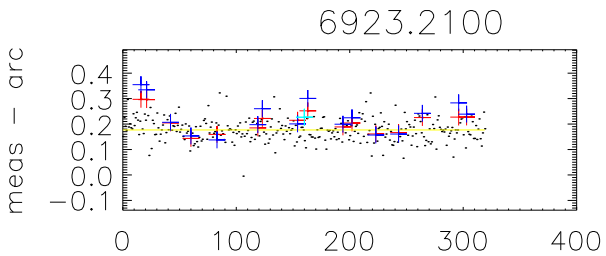

PLATE=1775 MJD=53847 Extraction chi^2 for sdR−r2−00038737.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

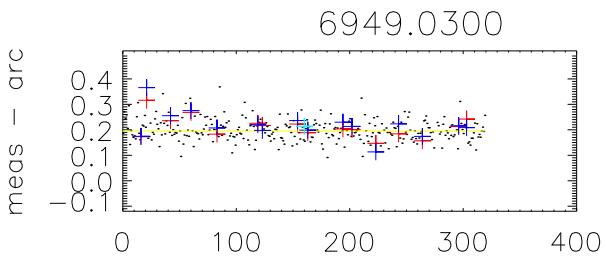

6300.3040
off: 0.21
sig: 0.005
6363.7760
off: 0.23
sig: 0.009
6553.6100
off: 0.22
sig: 0.026
6923.2100
off: 0.23
sig: 0.015
6949.0300
off: 0.21
sig: 0.014
7571.7500
off: 0.27
sig: 0.013
7794.1200
off: 0.14
sig: 0.007
7821.5100
off: 0.16
sig: 0.006
8399.1600
off: 0.21
sig: 0.005
8430.1700
off: 0.20
sig: 0.005
8885.8300
off: 0.24
sig: 0.005
8919.6100
off: 0.22
sig: 0.005

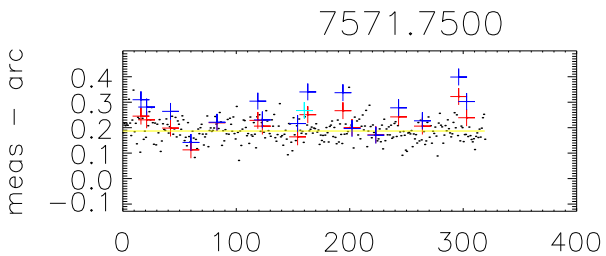

6300.3040
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

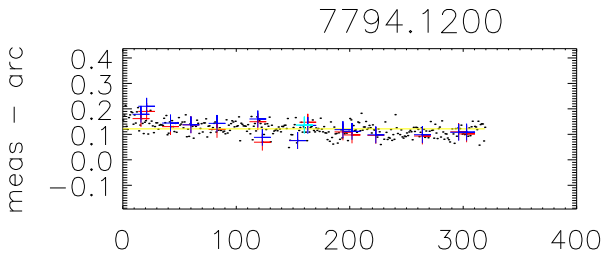

6363.7760
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

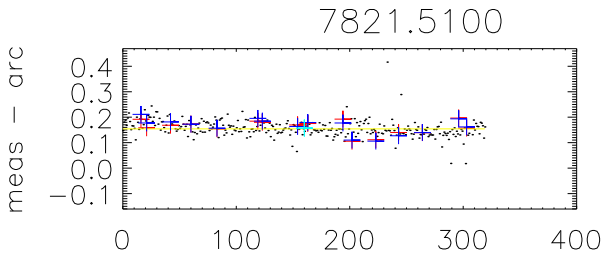

6553.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

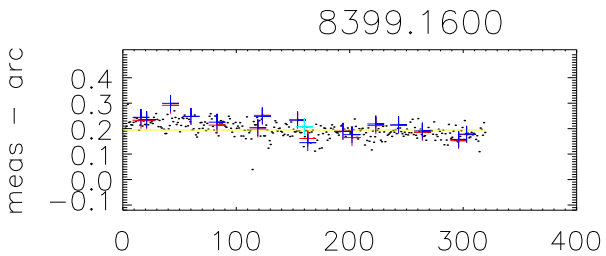

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

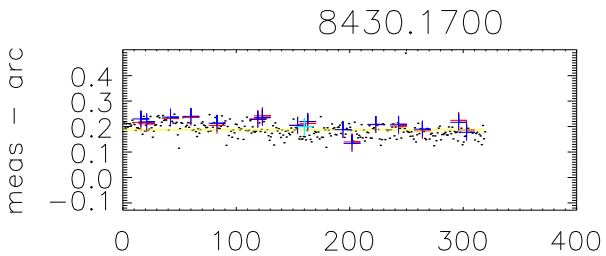

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

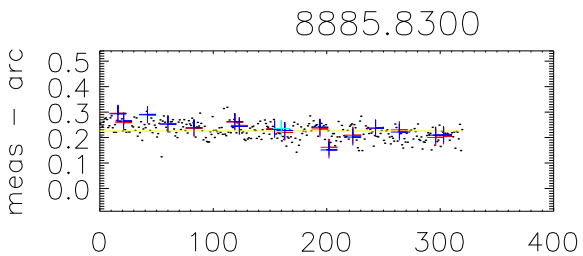

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

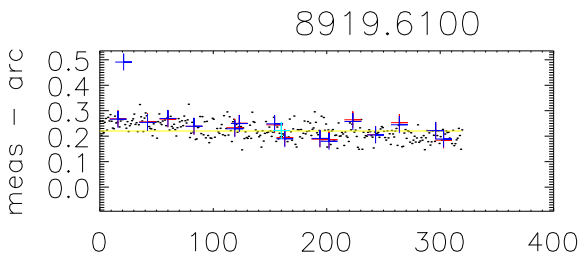

7794.1200
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

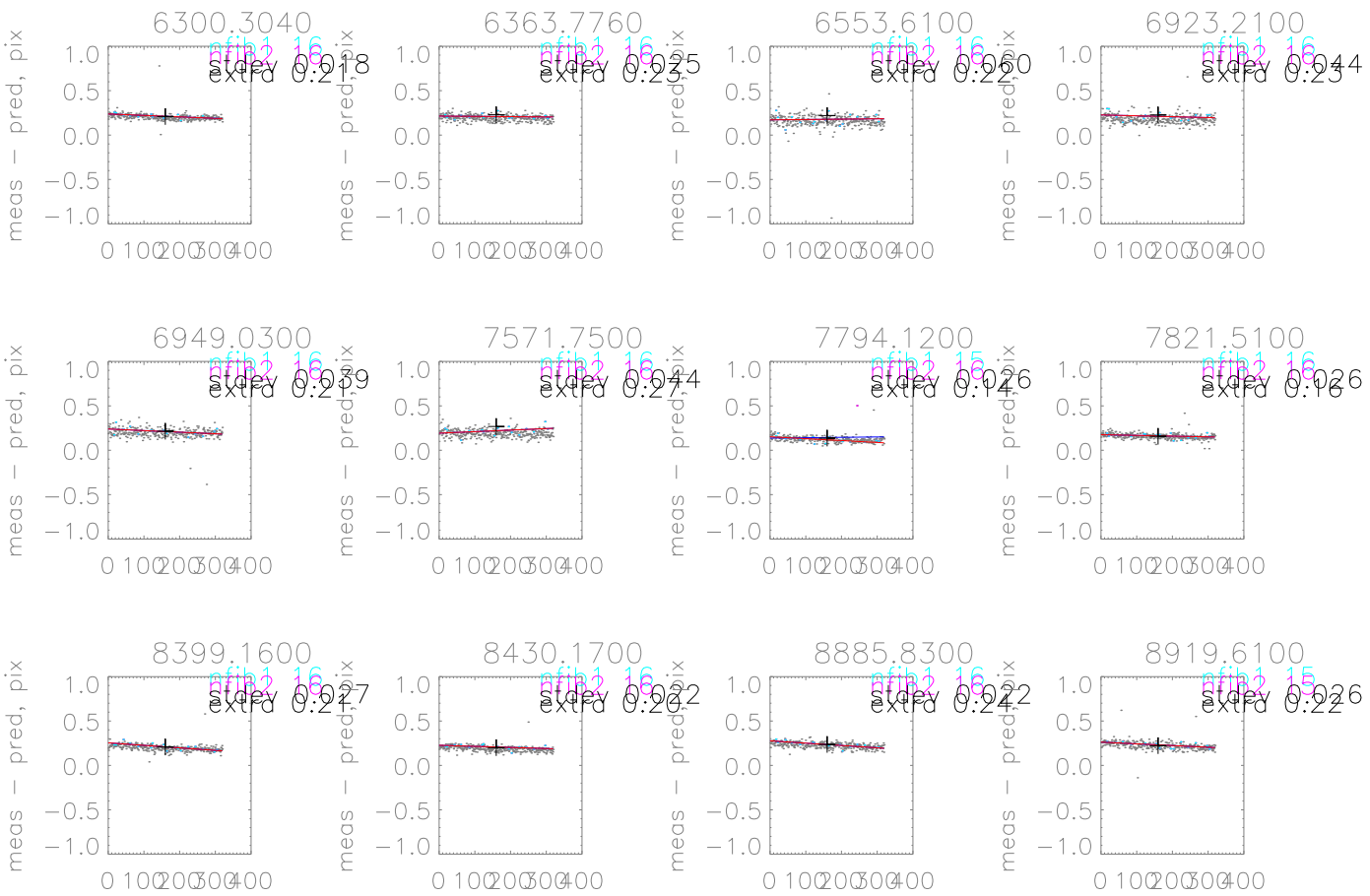

7821.5100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

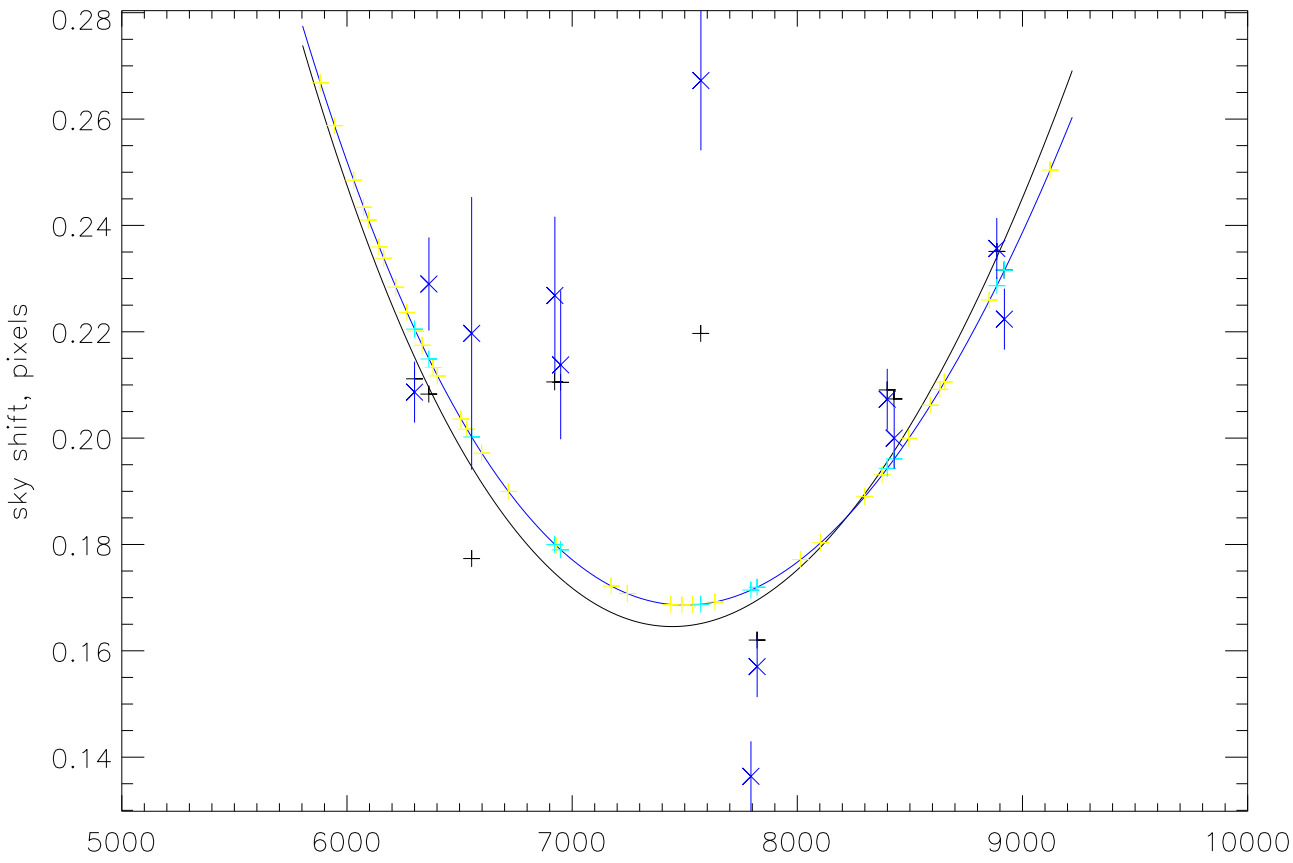

8399.1600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

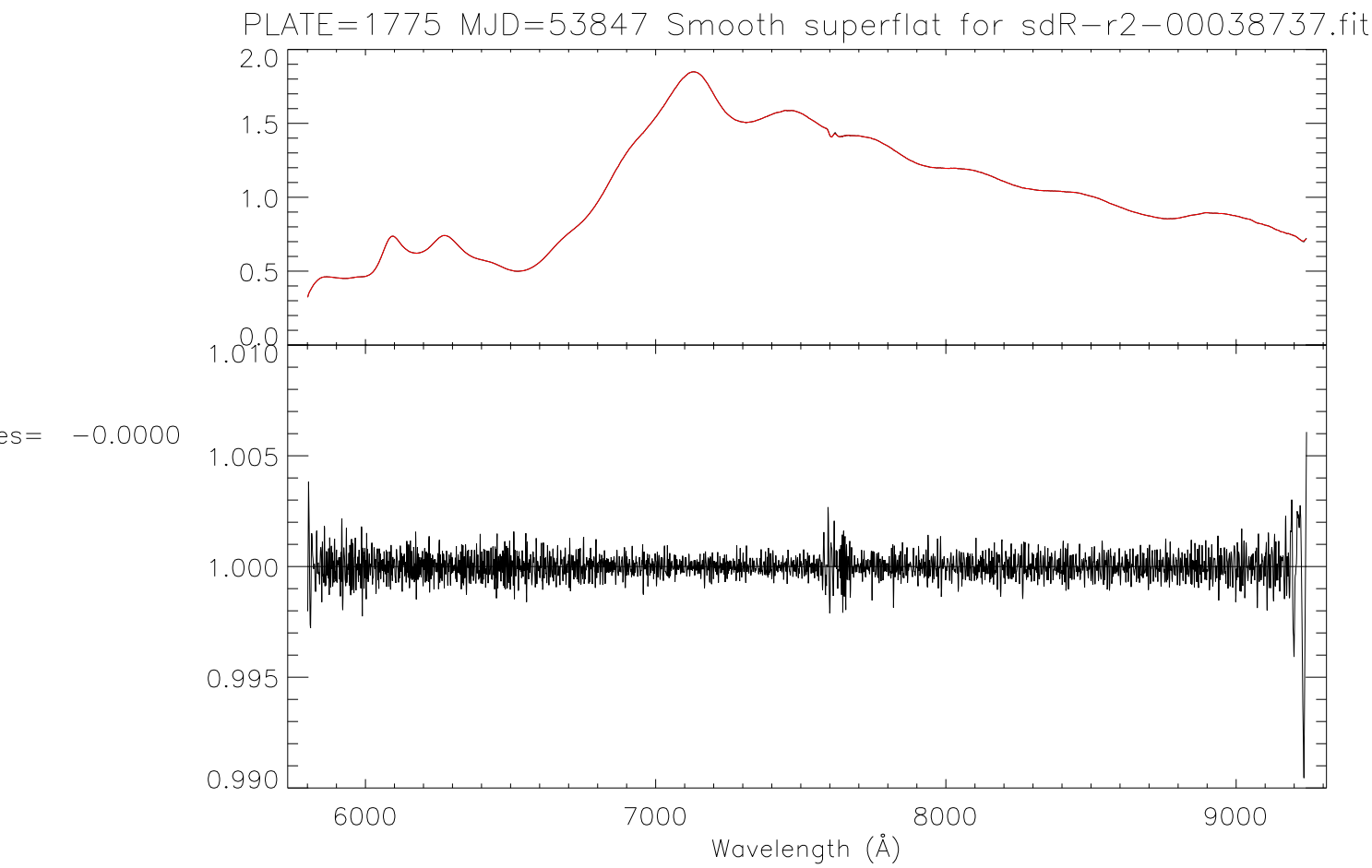

8430.1700
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

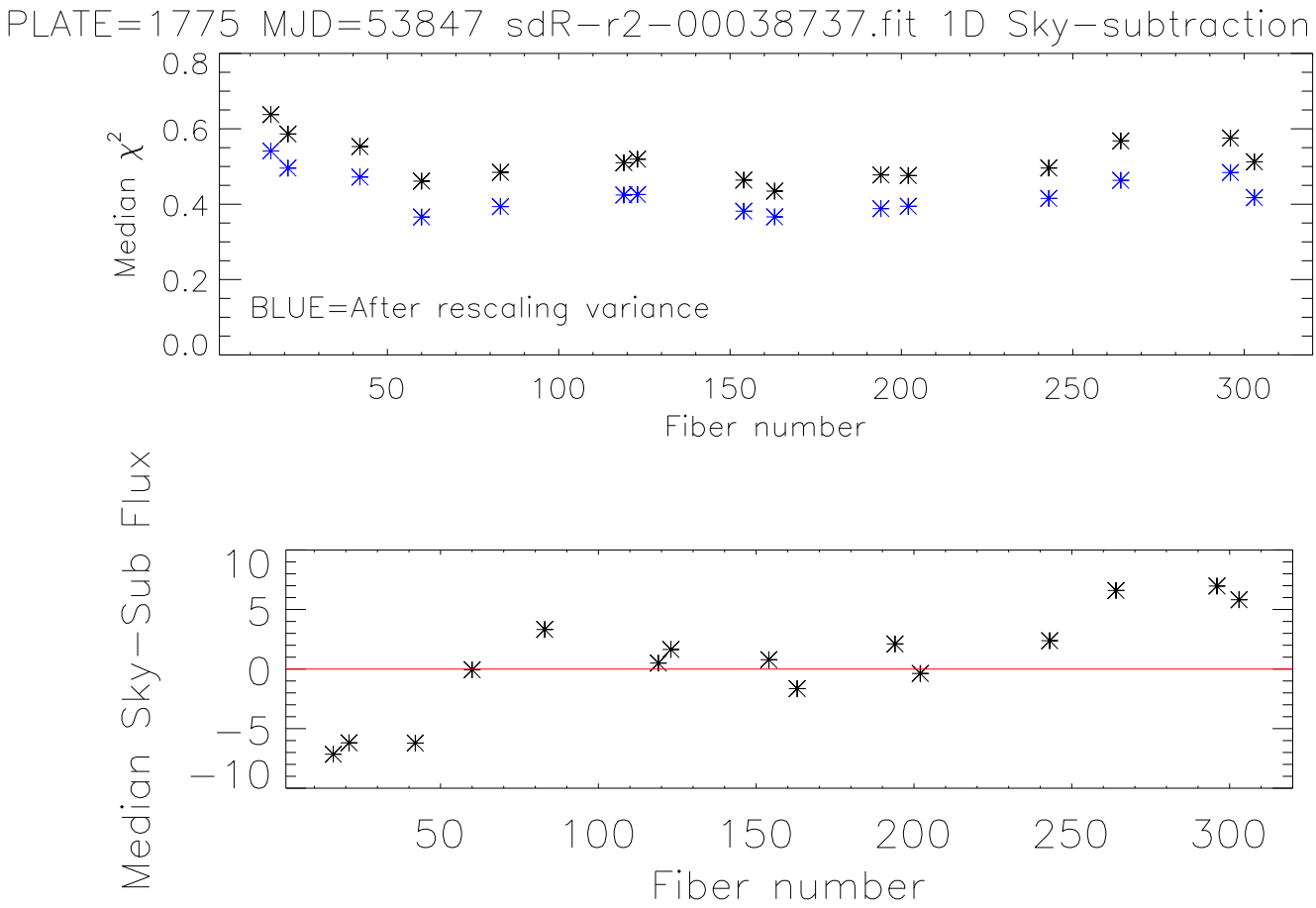

8885.8300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

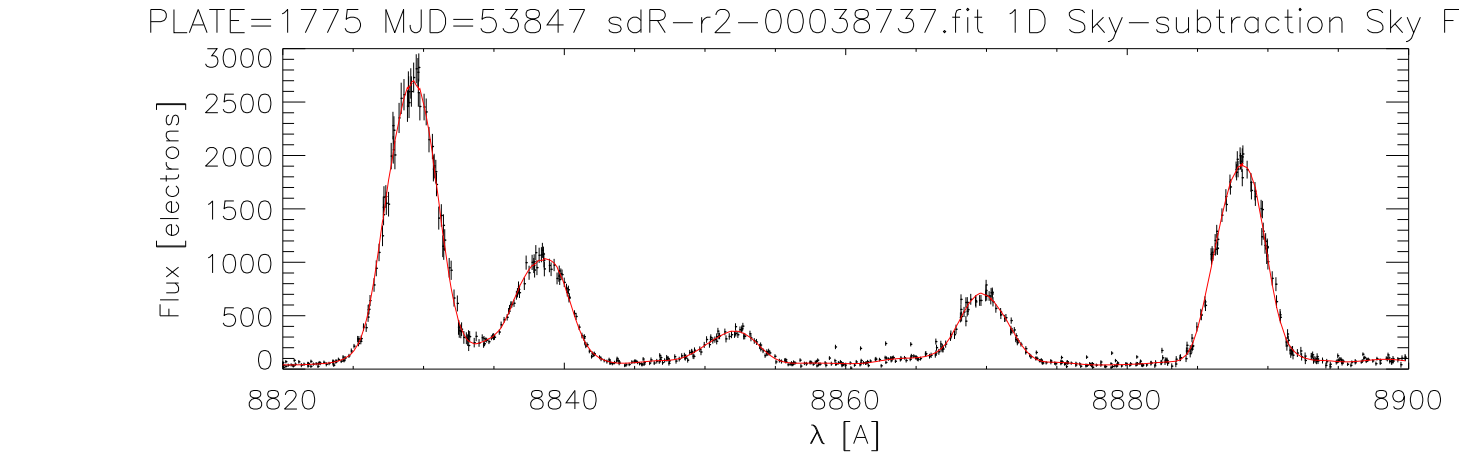

8919.6100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

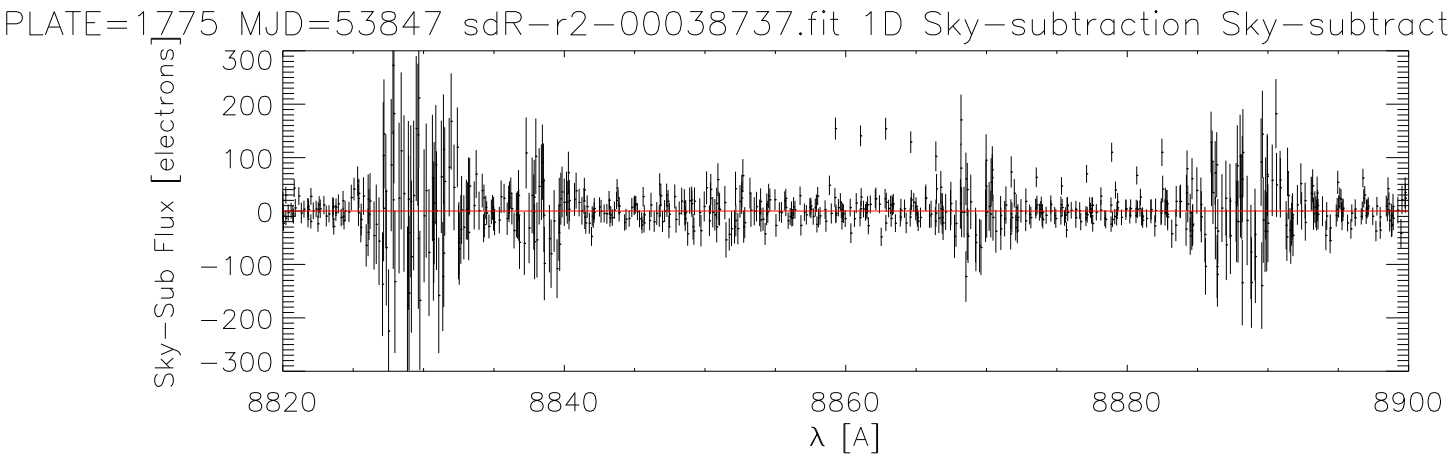

6300.3040
stdev 0.018
extra 0.21
6363.7760
stdev 0.025
extra 0.23
6553.6100
stdev 0.020
extra 0.22
6923.2100
stdev 0.044
extra 0.23
6949.0300
stdev 0.039
extra 0.21
7571.7500
stdev 0.044
extra 0.27
7794.1200
stdev 0.026
extra 0.14
7821.5100
stdev 0.026
extra 0.16
8399.1600
stdev 0.027
extra 0.21
8430.1700
stdev 0.022
extra 0.26
8885.8300
stdev 0.022
extra 0.24
8919.6100
stdev 0.026
extra 0.22
meas − pred, pix

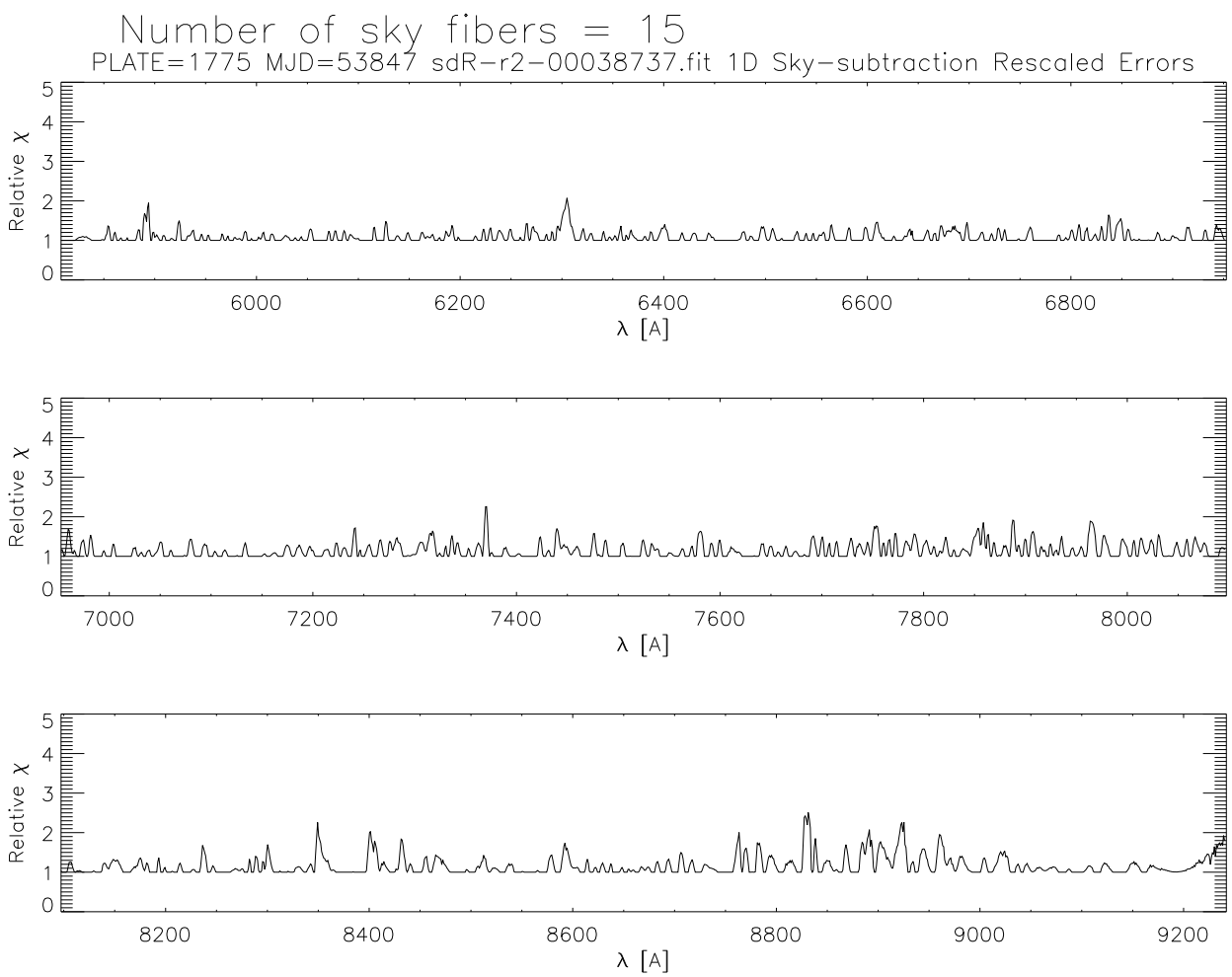

0.28
0.26
0.24
0.22
0.20
0.18
0.16
0.14
sky shift, pixels
5000
6000
7000
8000
9000
10000

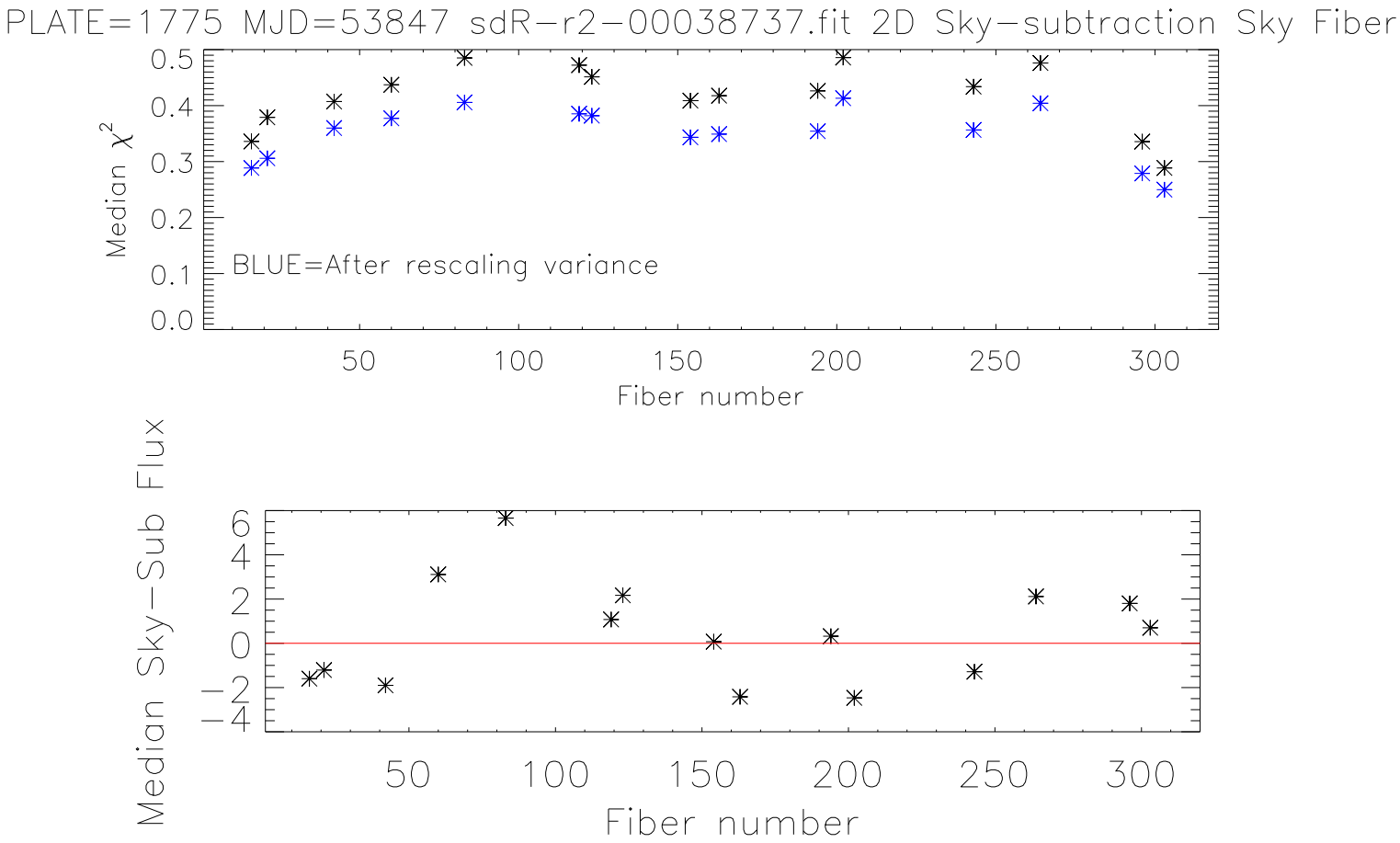

PLATE=1775 MJD=53847 Smooth superflat for sdR-r2-00038737.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= -0.0000
6000
7000
8000
9000
Wavelength (Å)

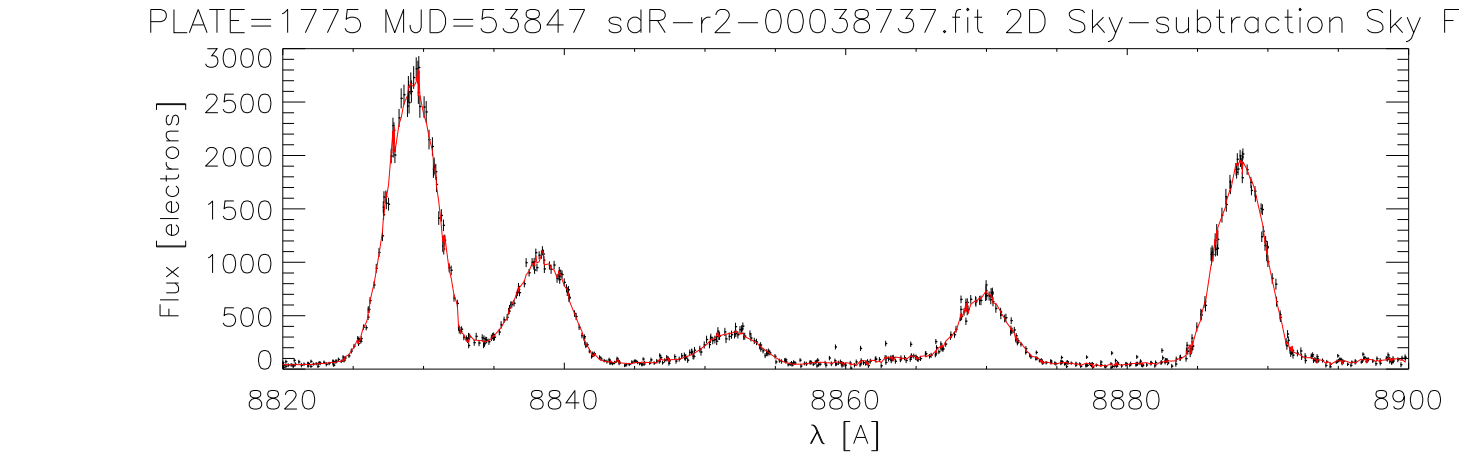

PLATE=1775 MJD=53847 sdR-r2-00038737.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

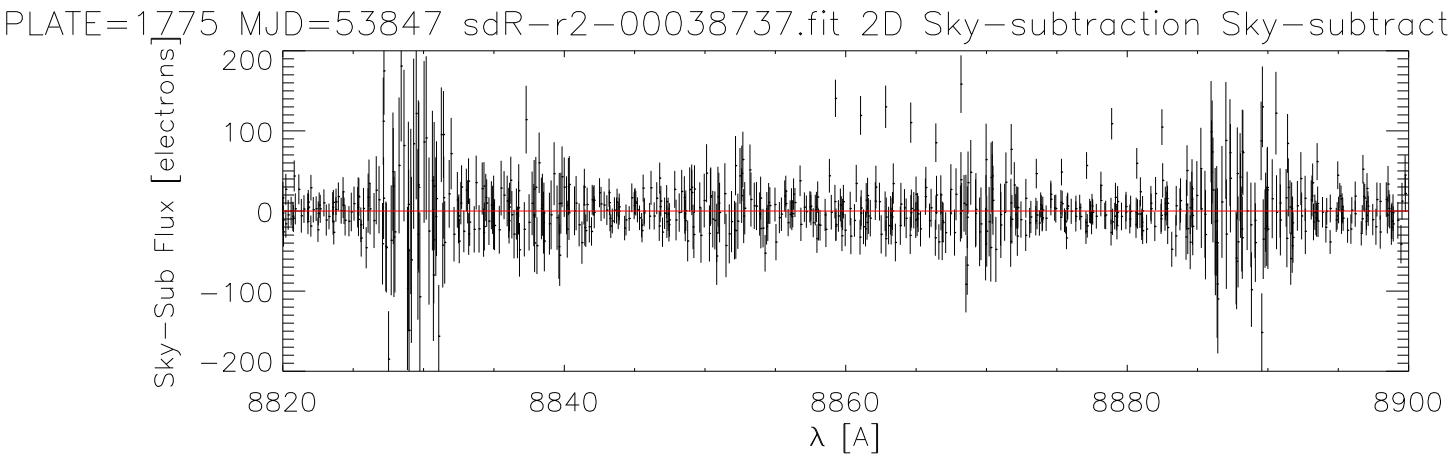

PLATE=1775 MJD=53847 sdR-r2-00038737.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

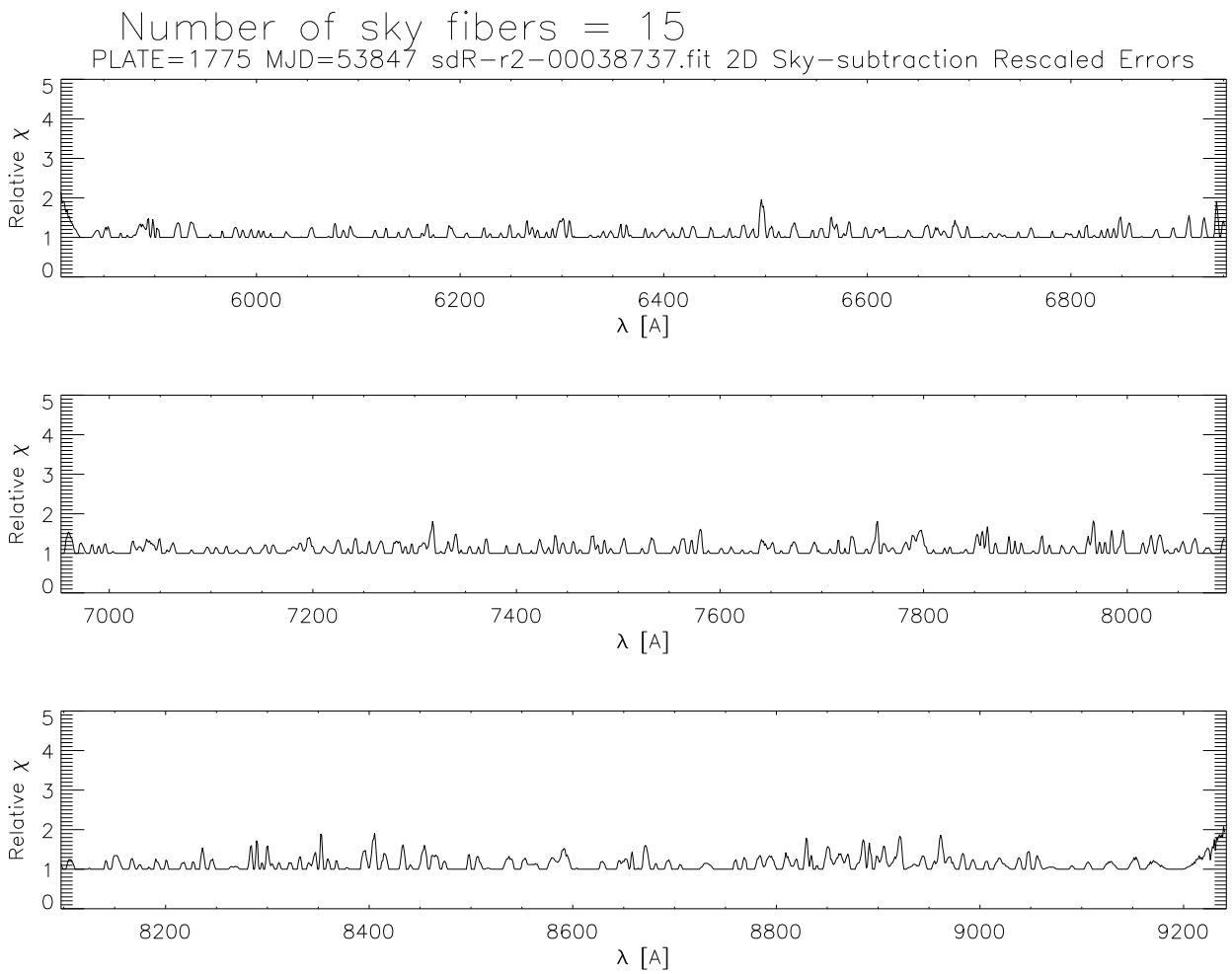

PLATE=1775 MJD=53847 sdR-r2-00038737.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

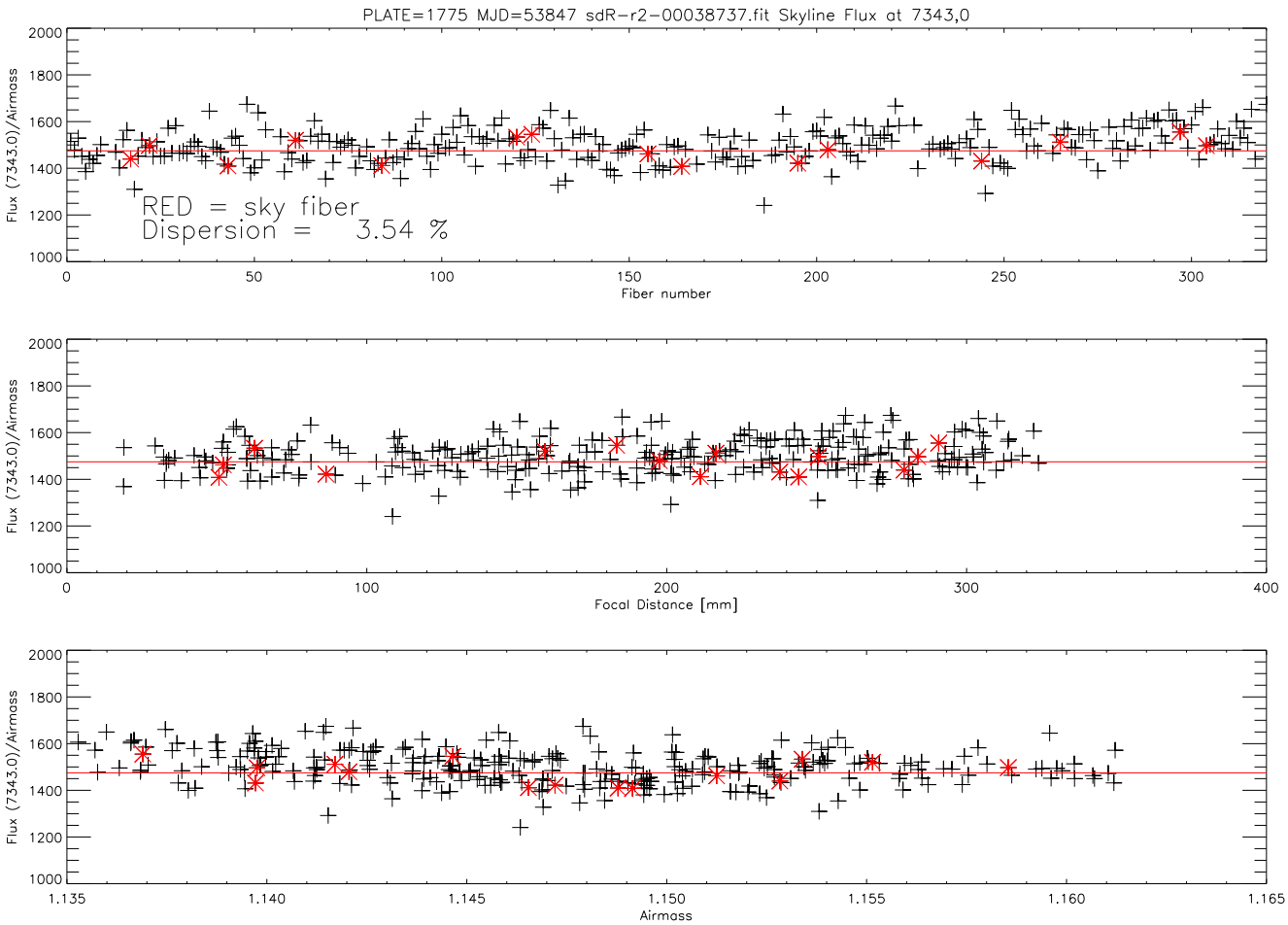

Number of sky fibers = 15
PLATE=1775 MJD=53847 sdR-r2-00038737.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

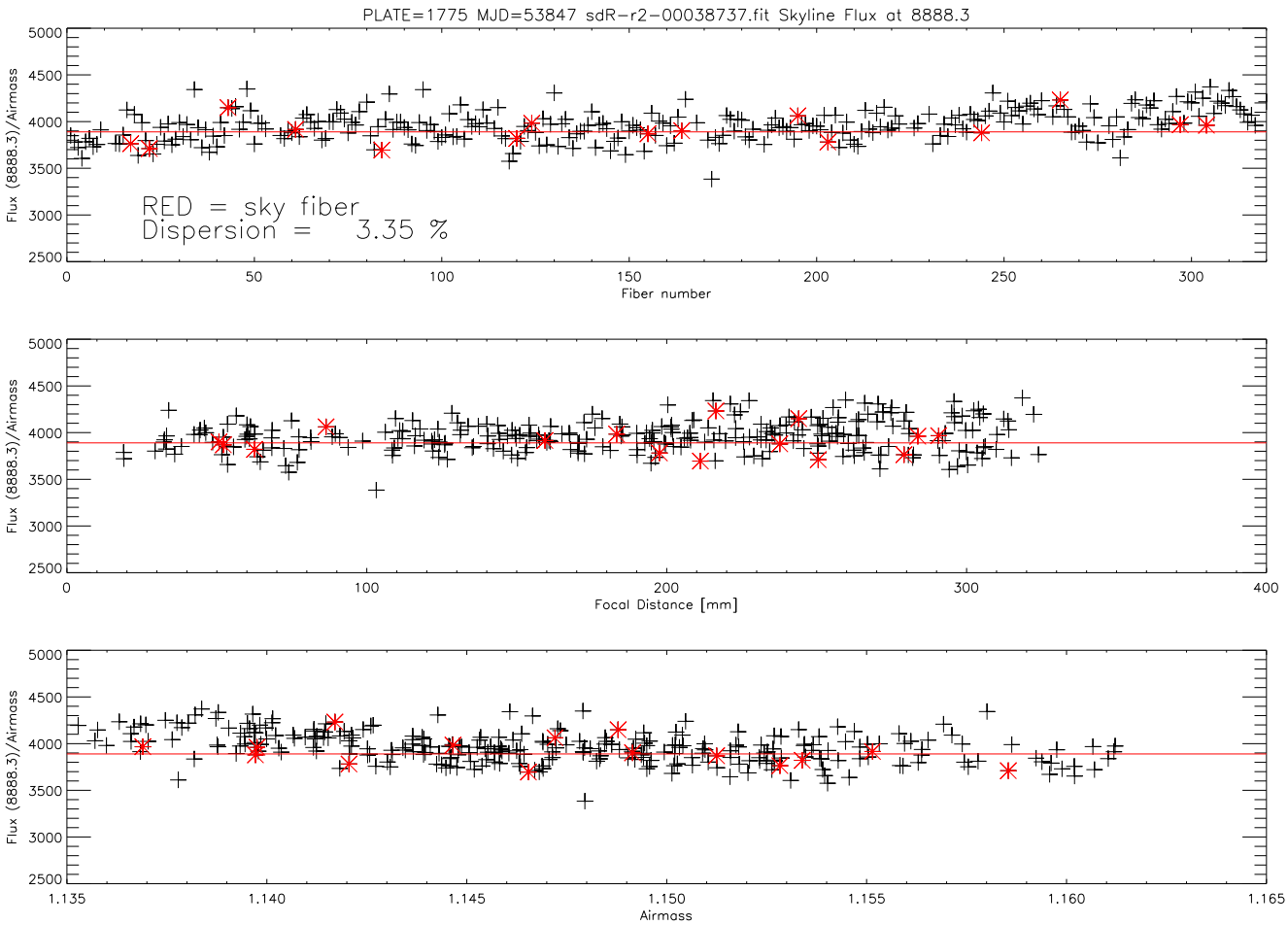

PLATE=1775 MJD=53847 sdR-r2-00038737.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number


PLATE=1775 MJD=53847 sdR-r2-00038737.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]


PLATE=1775 MJD=53847 sdR-r2-00038737.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]


Number of sky fibers = 15
PLATE=1775 MJD=53847 sdR-r2-00038737.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5


PLATE=1775 MJD=53847 sdR-r2-00038737.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.54 %
Fiber number
Focal Distance [mm]
Airmass


PLATE=1775 MJD=53847 sdR-r2-00038737.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.35 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass