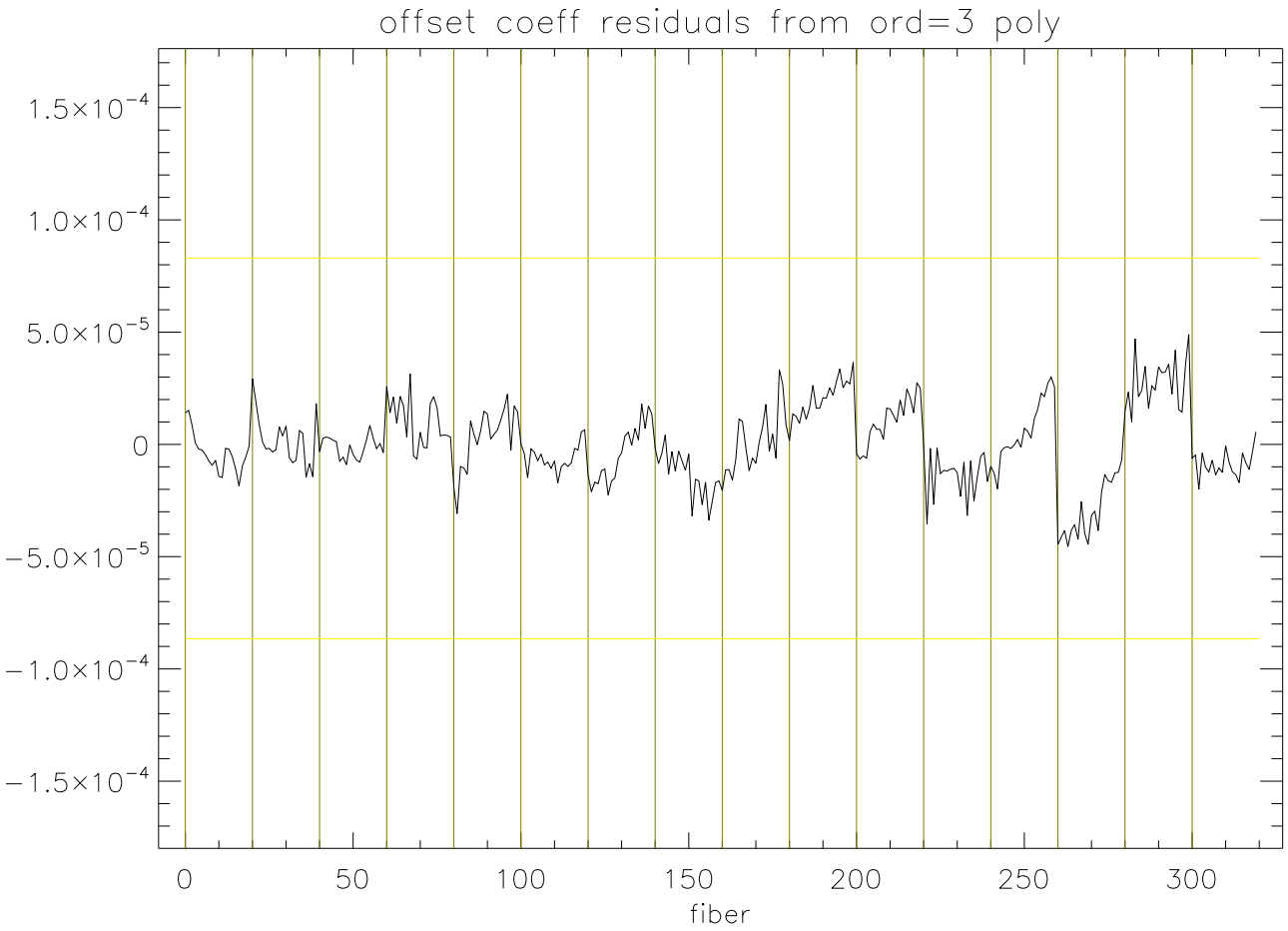
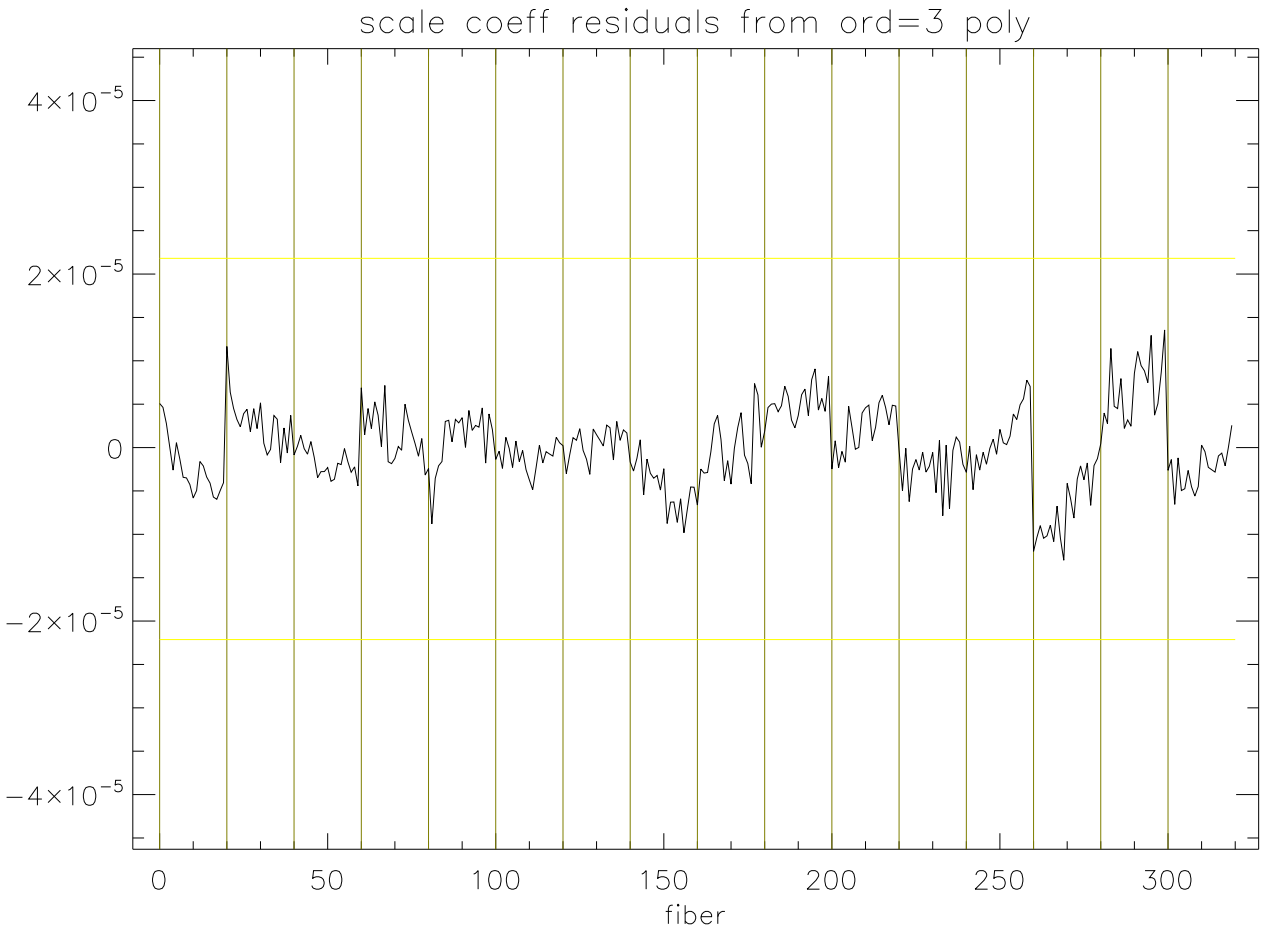
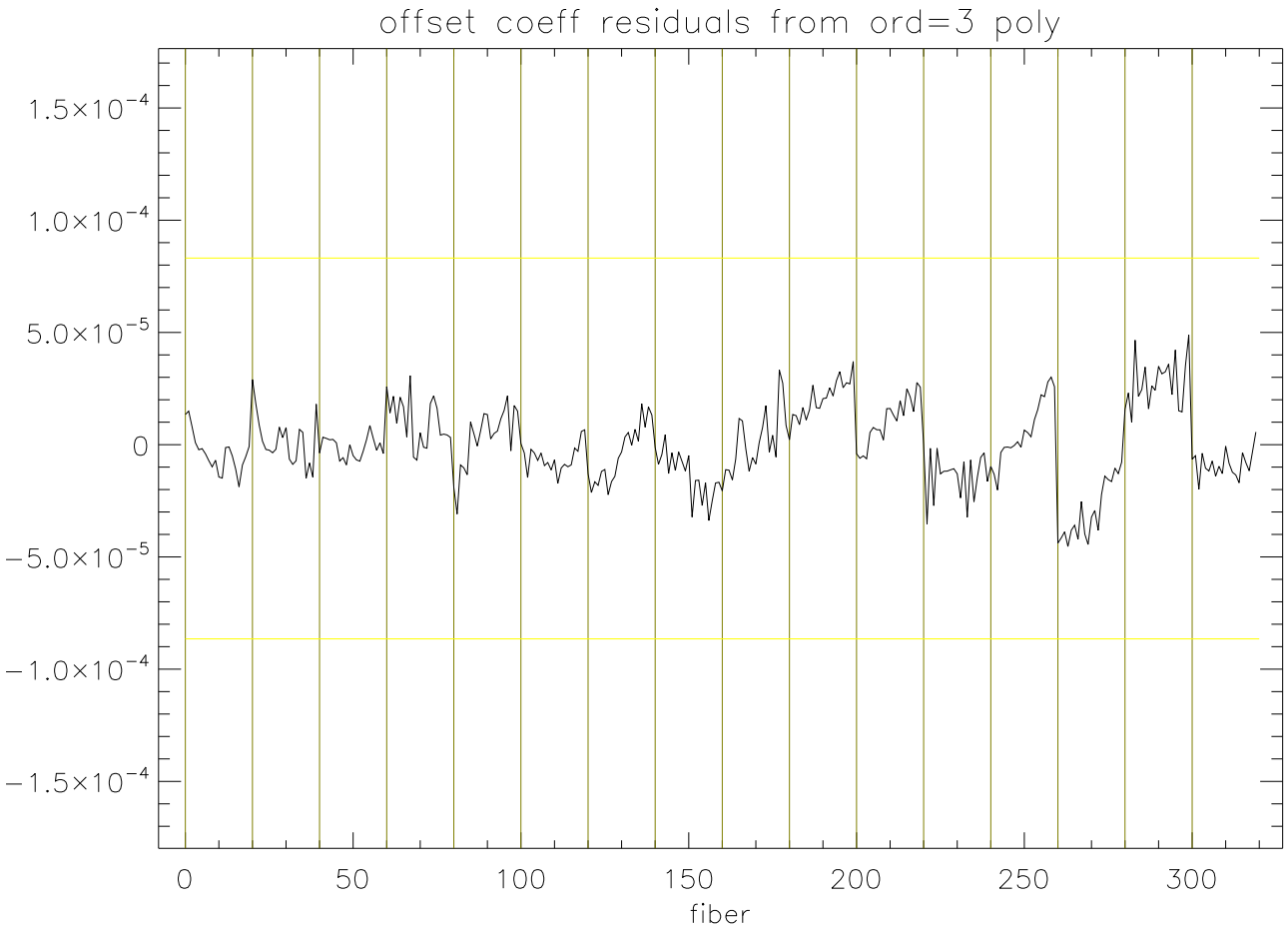
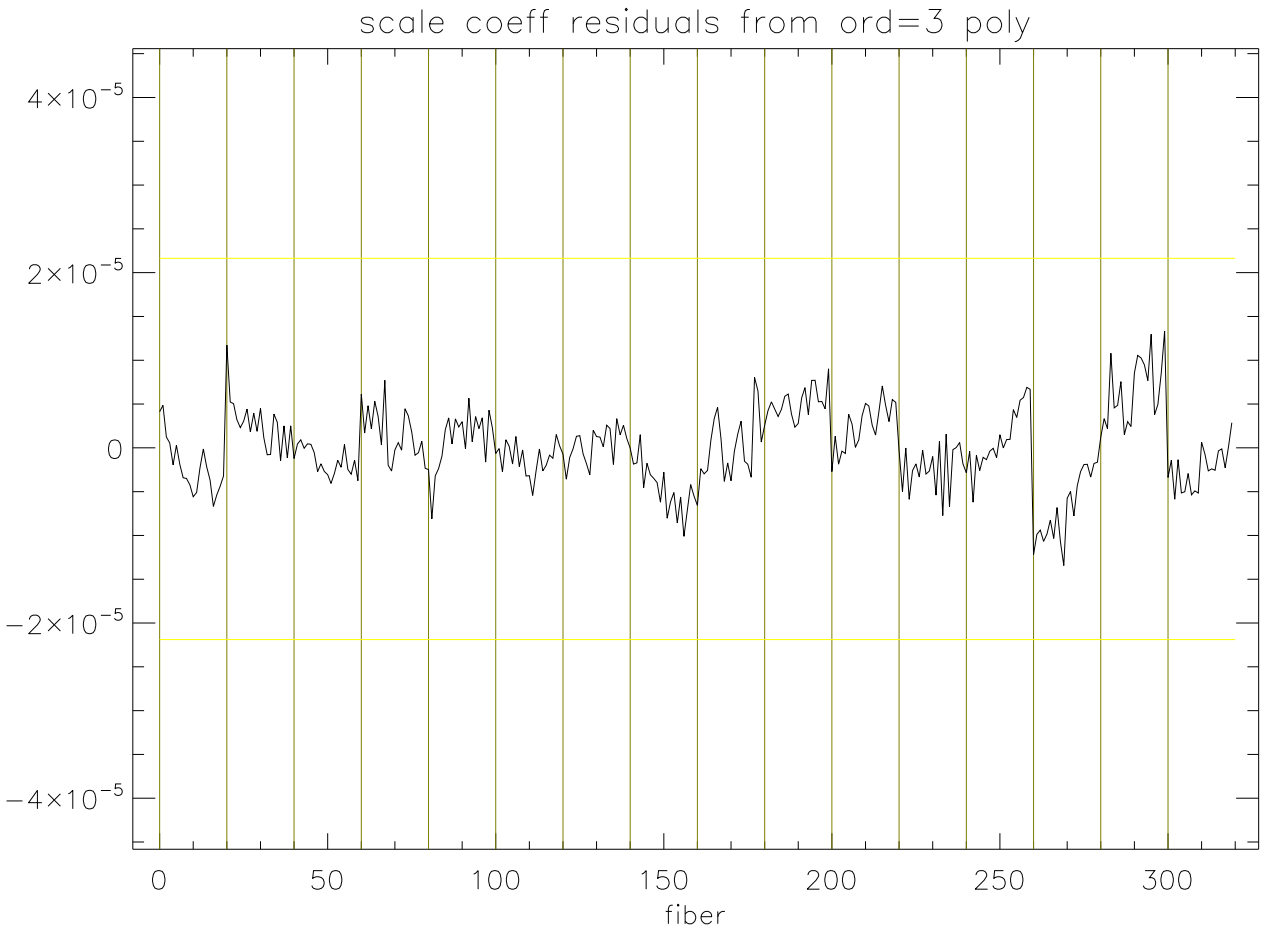
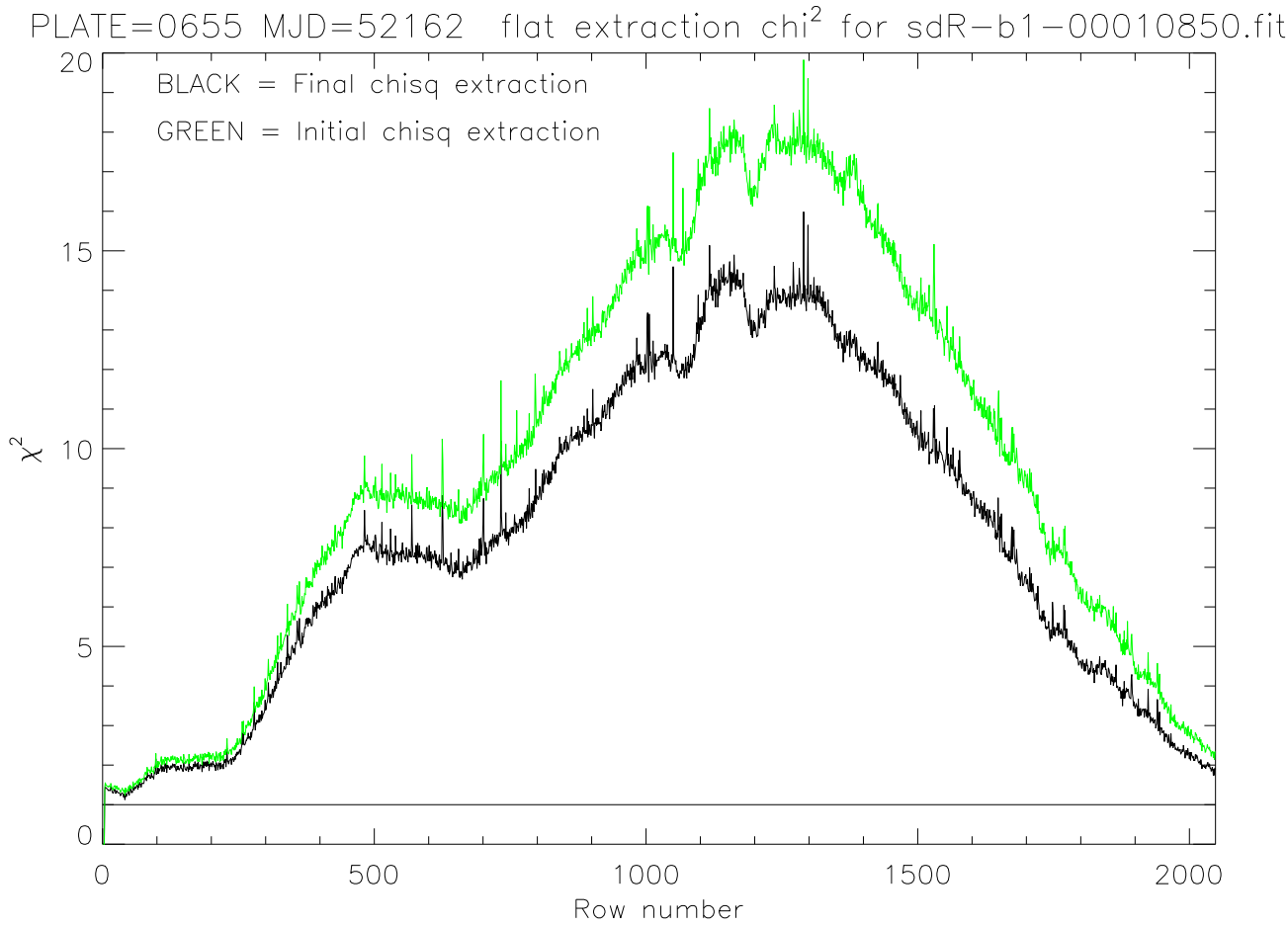
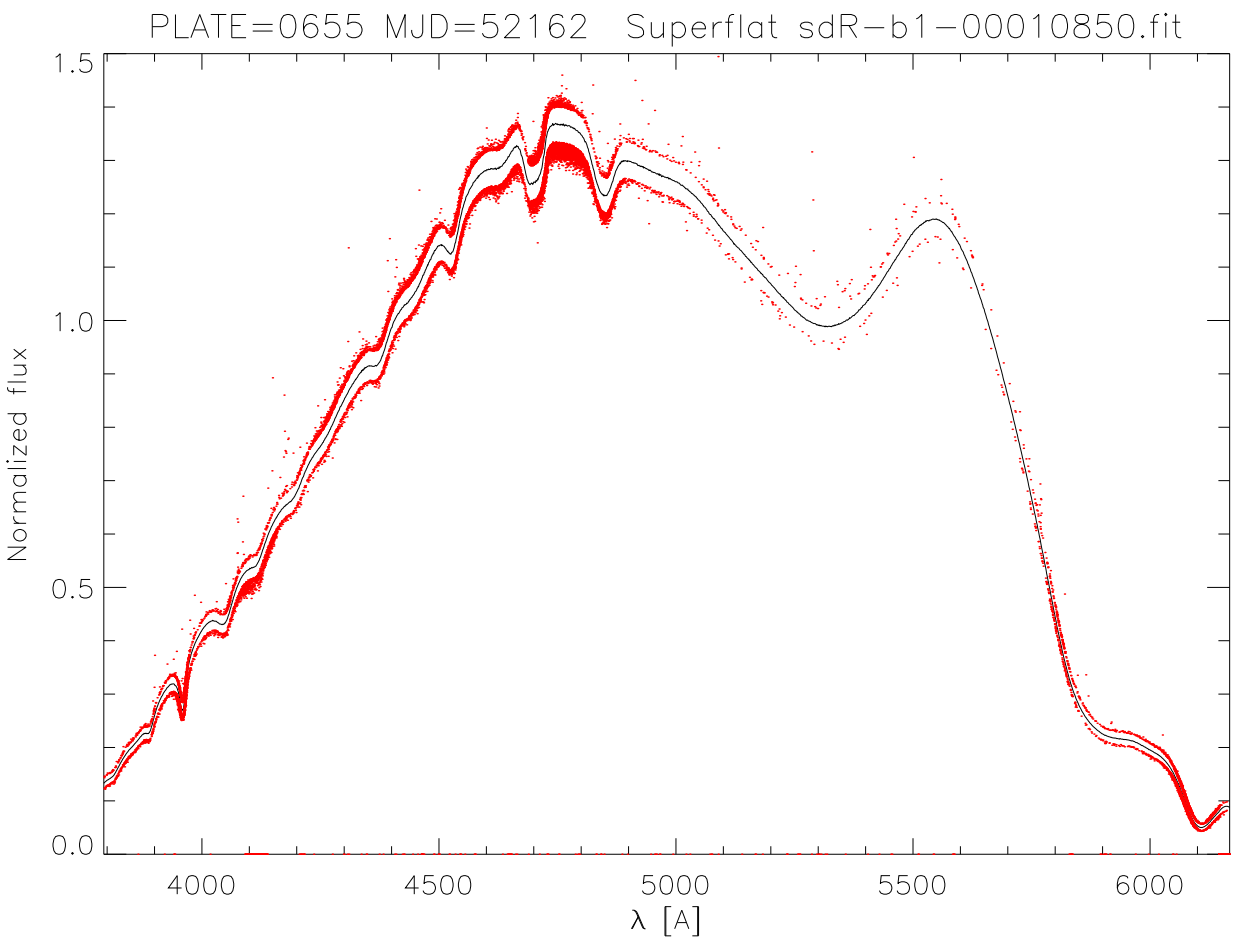

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

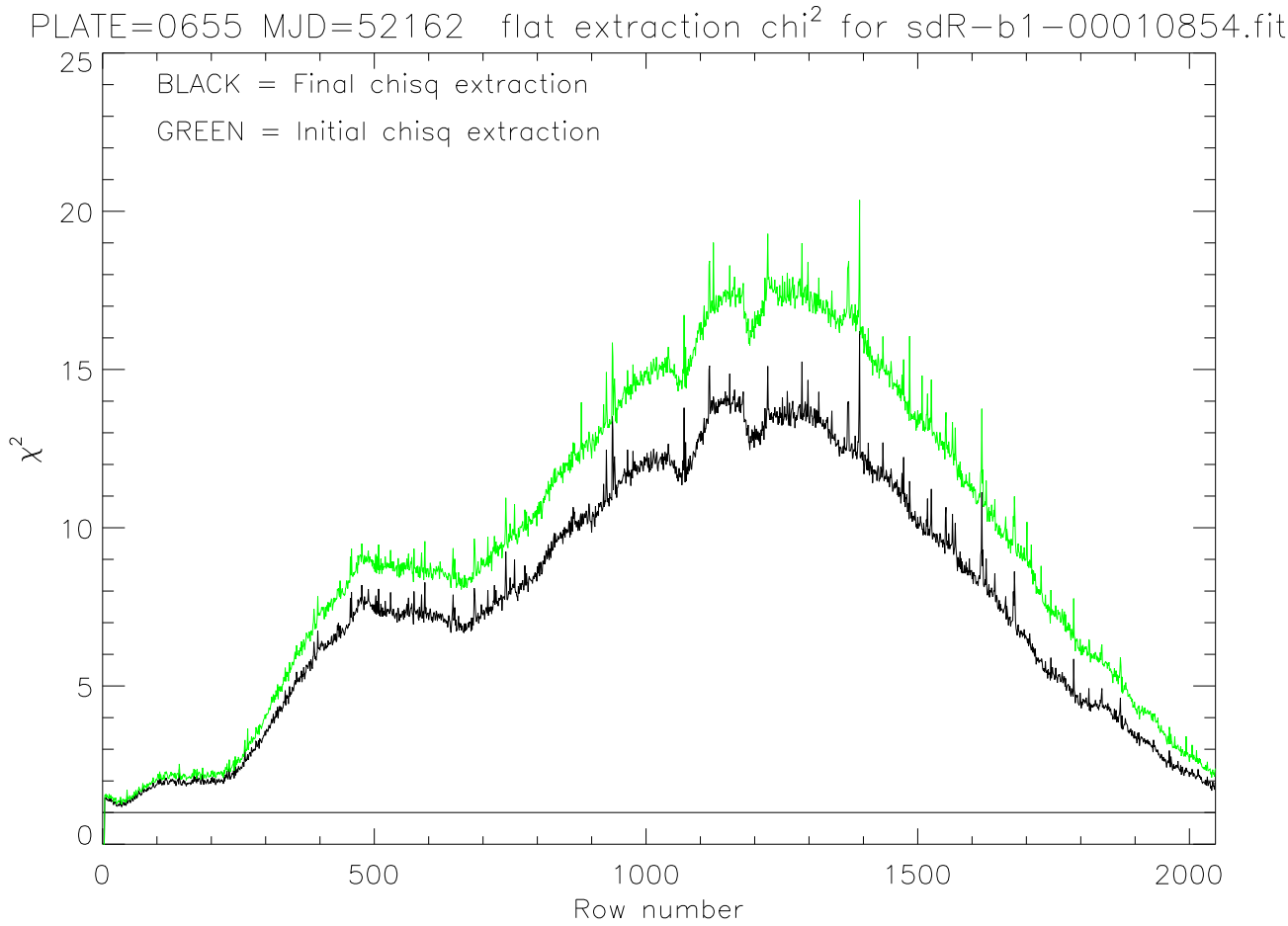

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

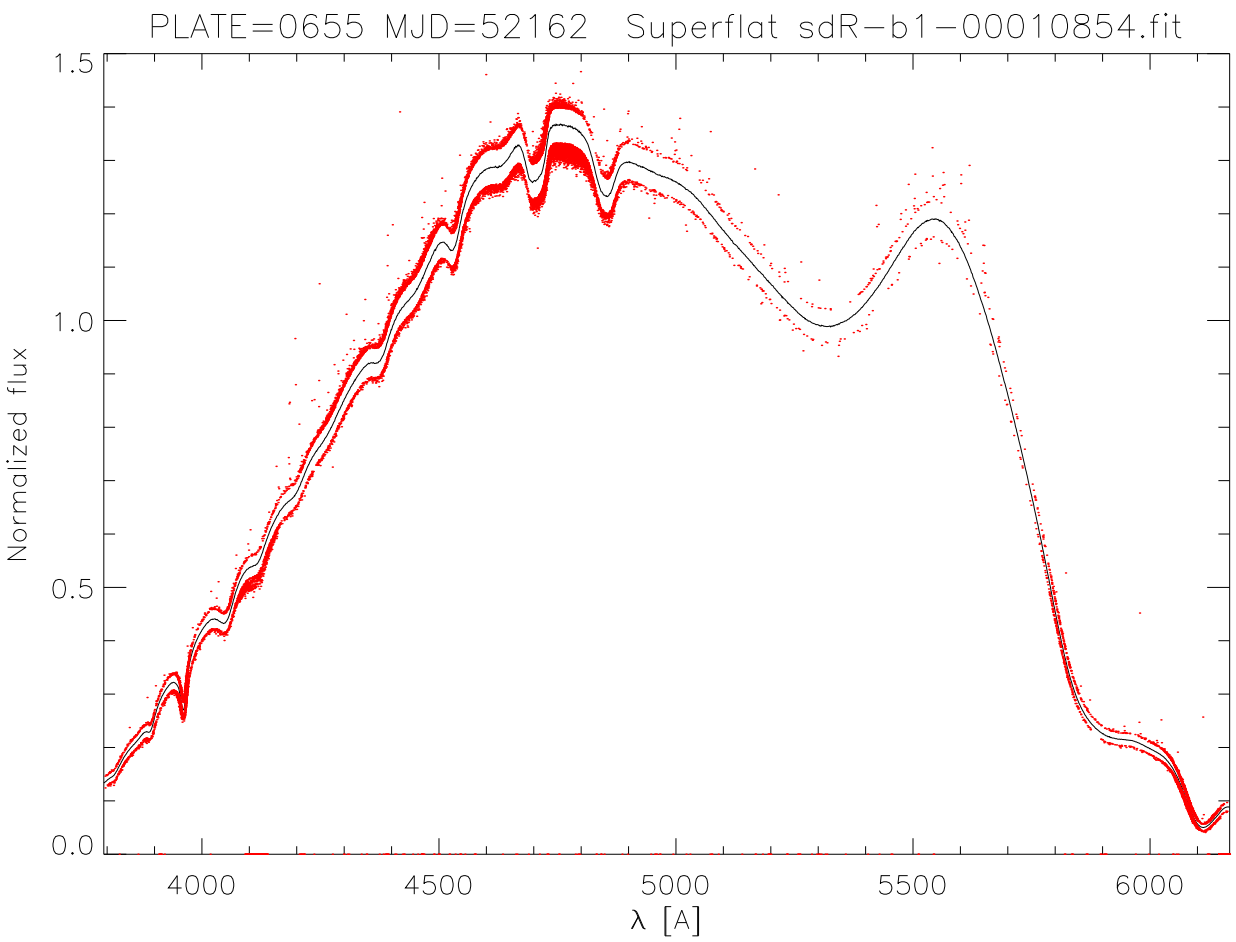

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

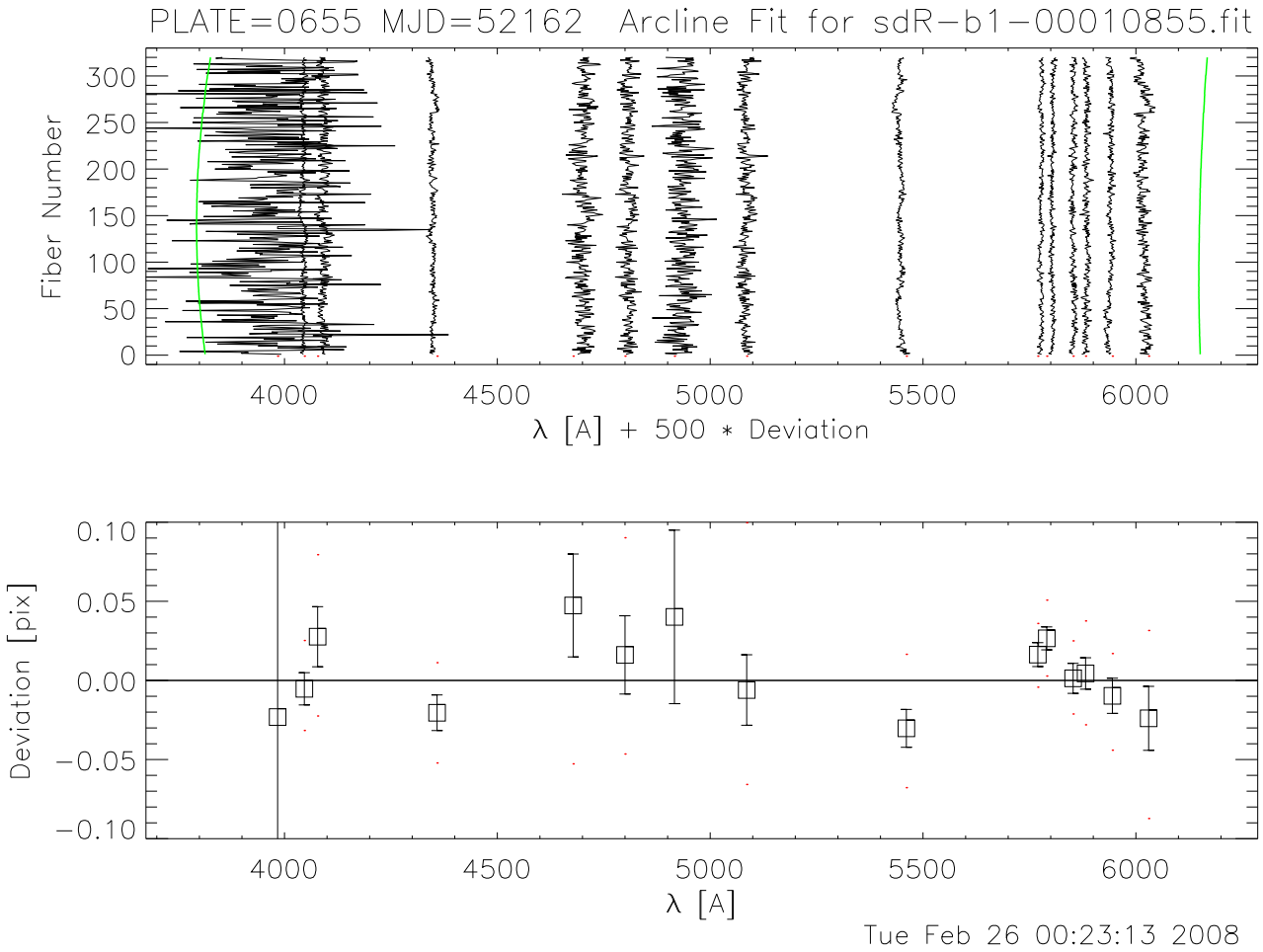

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

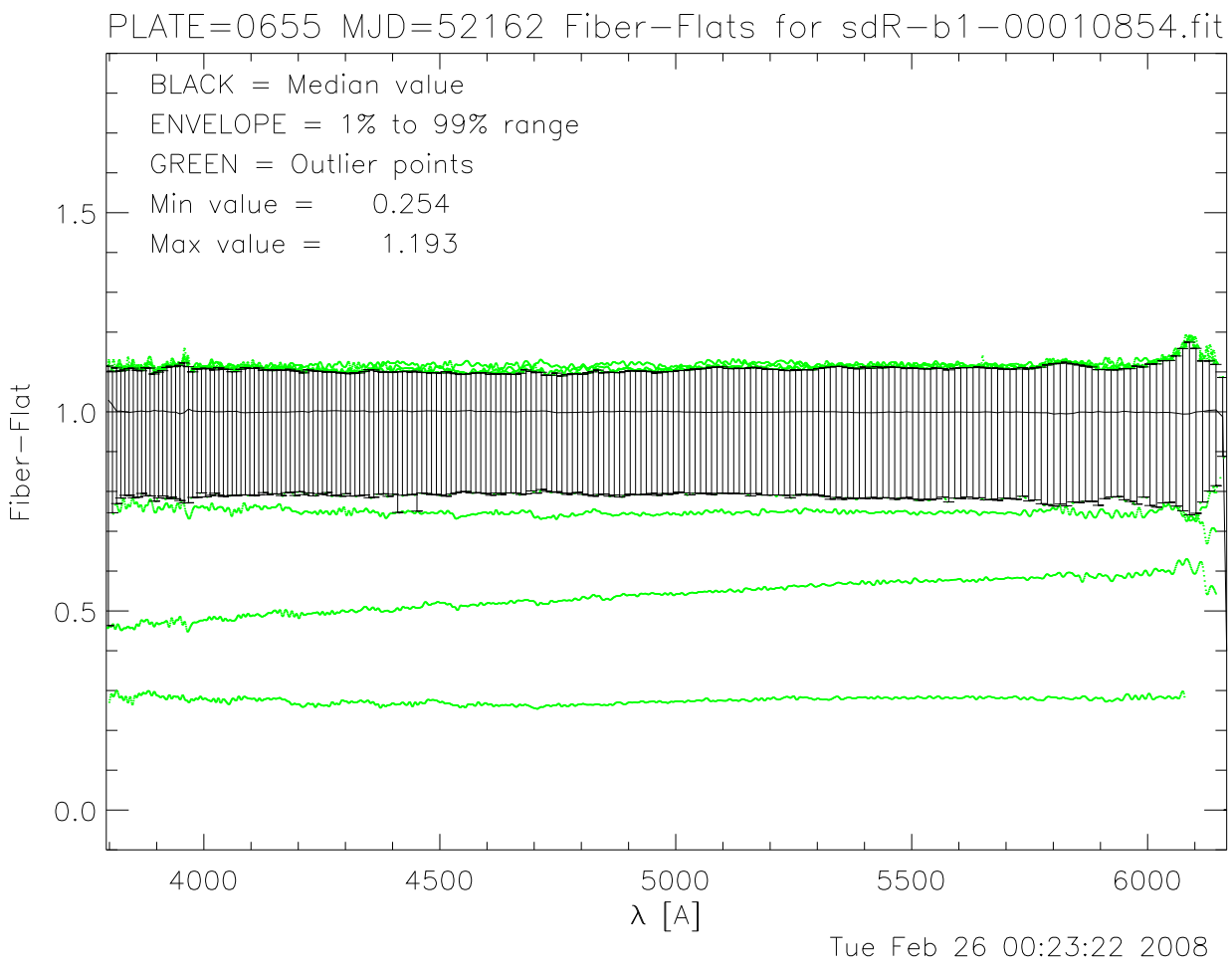

PLATE=0655 MJD=52162 flat extraction chi^2 for sdR−b1−00010850.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
5
10
15
20
0
500
1000
1500
2000
Row number

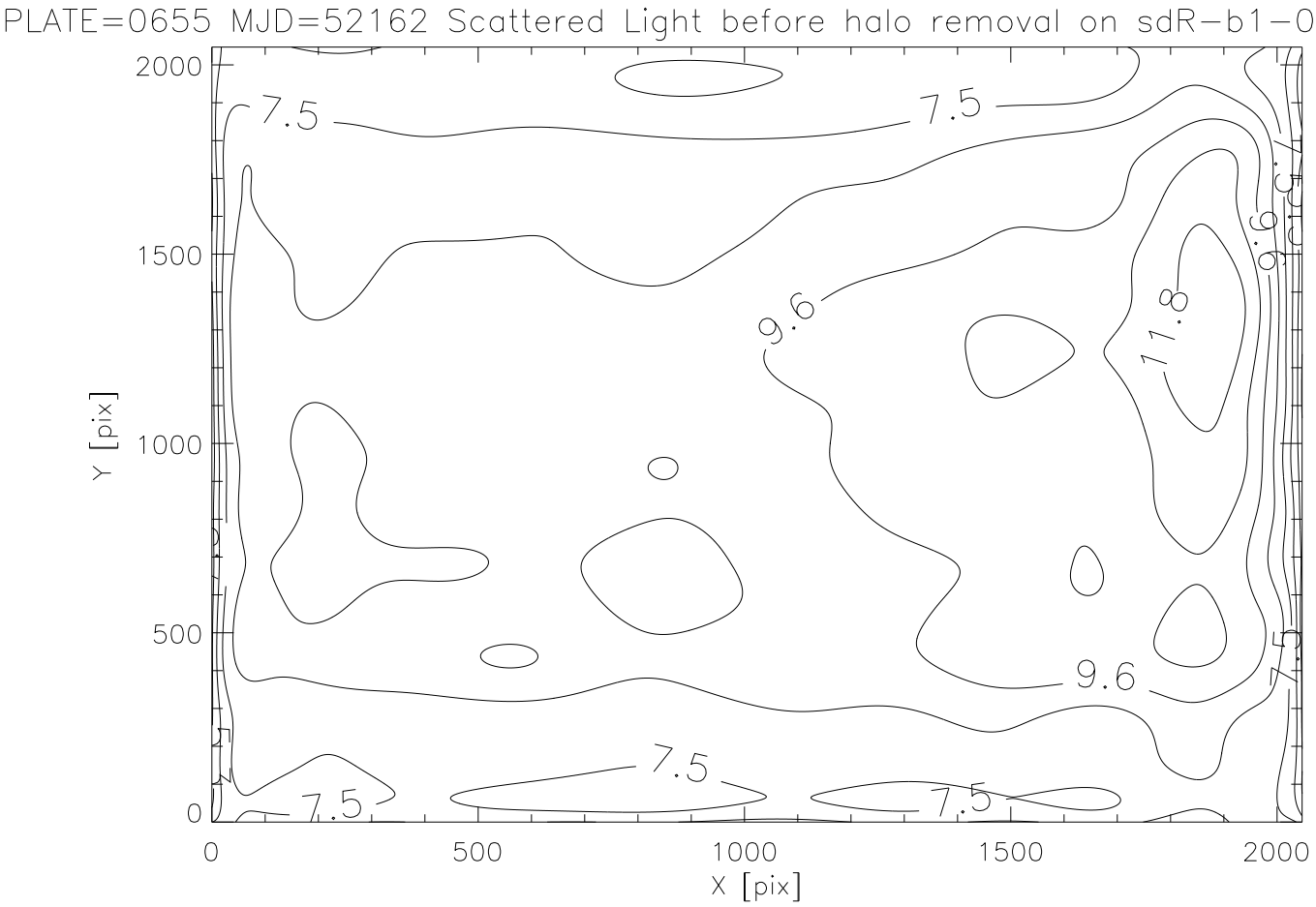

PLATE=0655 MJD=52162 Superflat sdR-b1-00010850.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

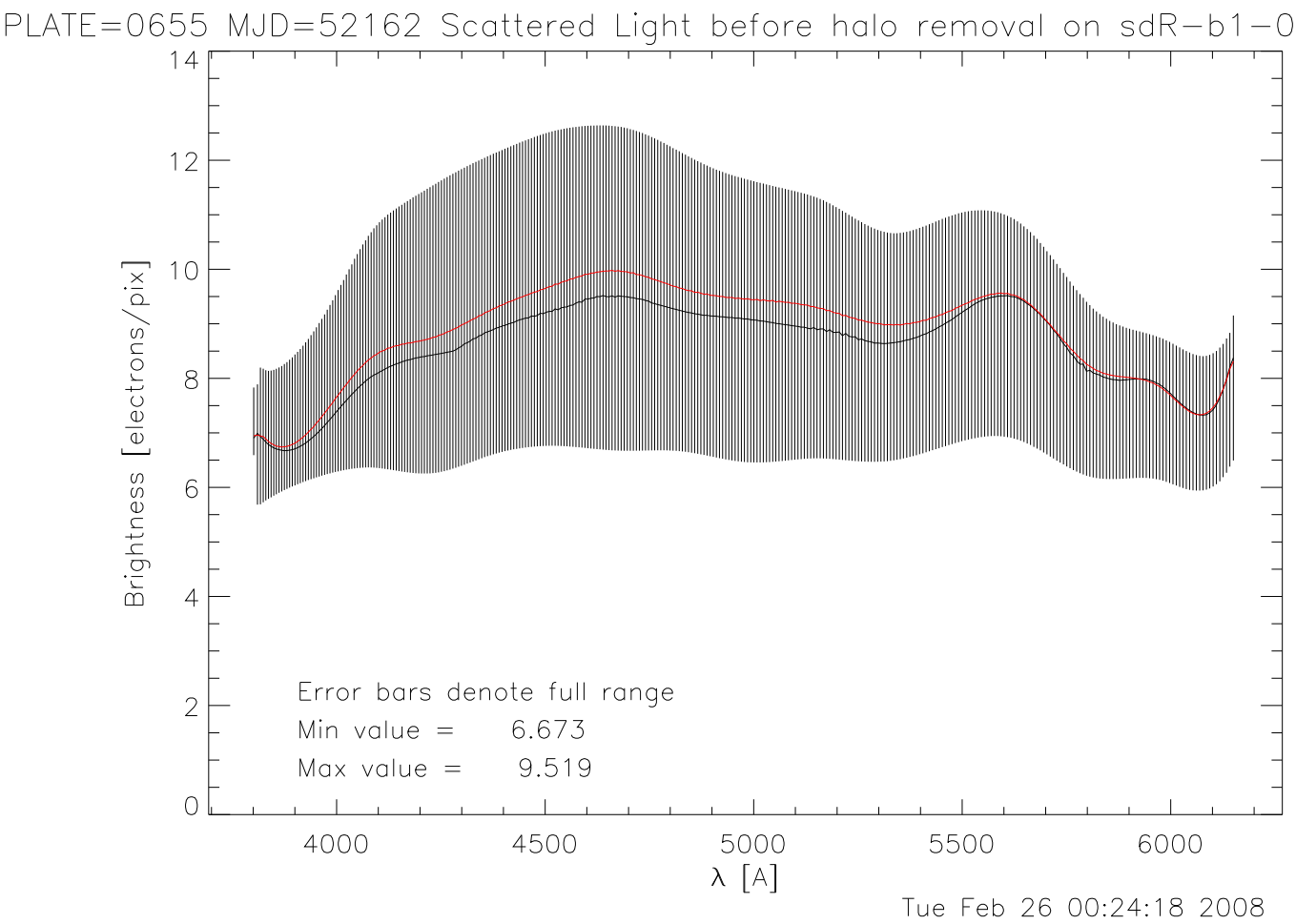

PLATE=0655 MJD=52162 flat extraction chi^2 for sdR−b1−00010854.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
5
10
15
20
25
0
500
1000
1500
2000

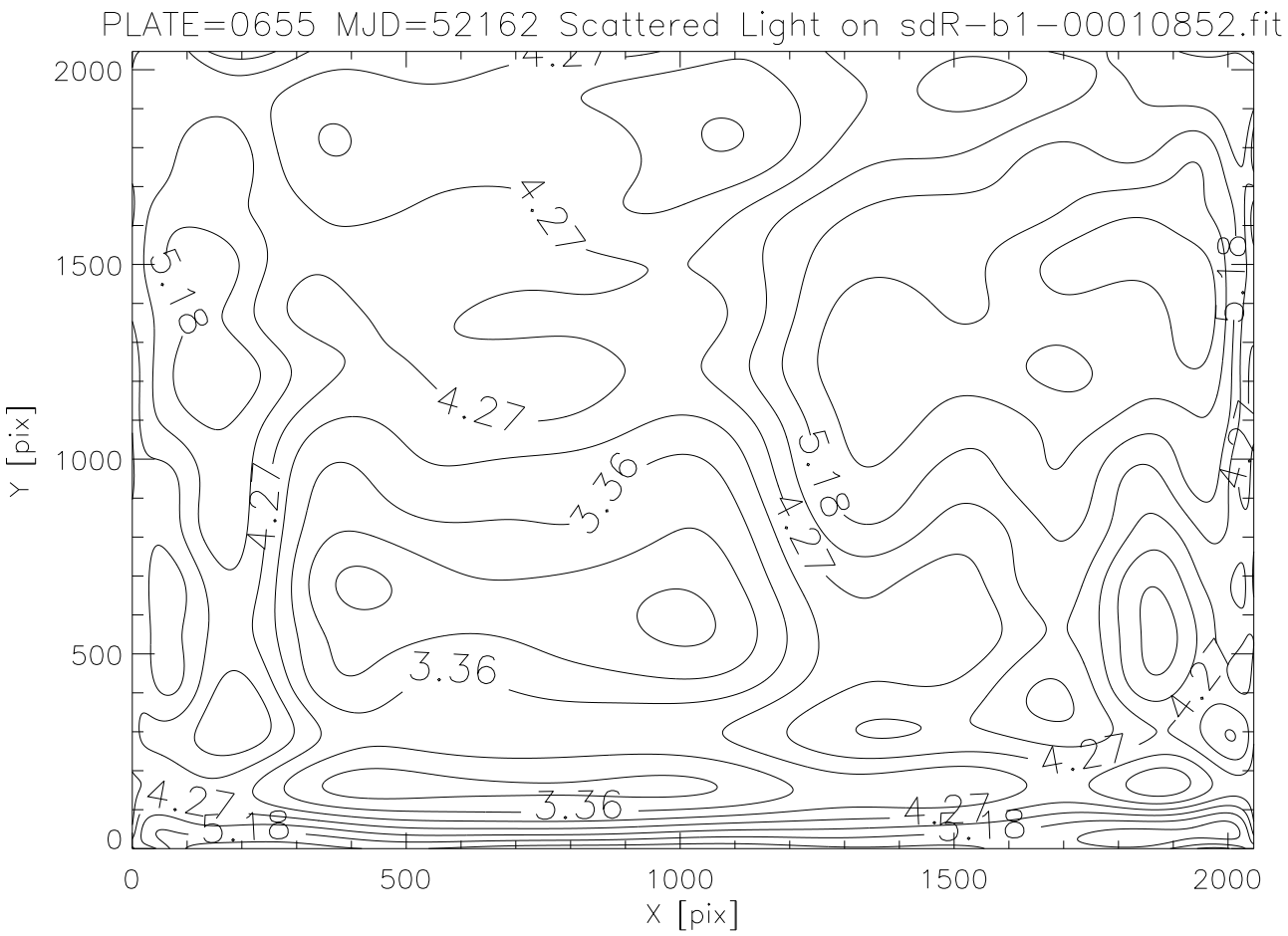

PLATE=0655 MJD=52162 Superflat sdR-b1-00010854.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

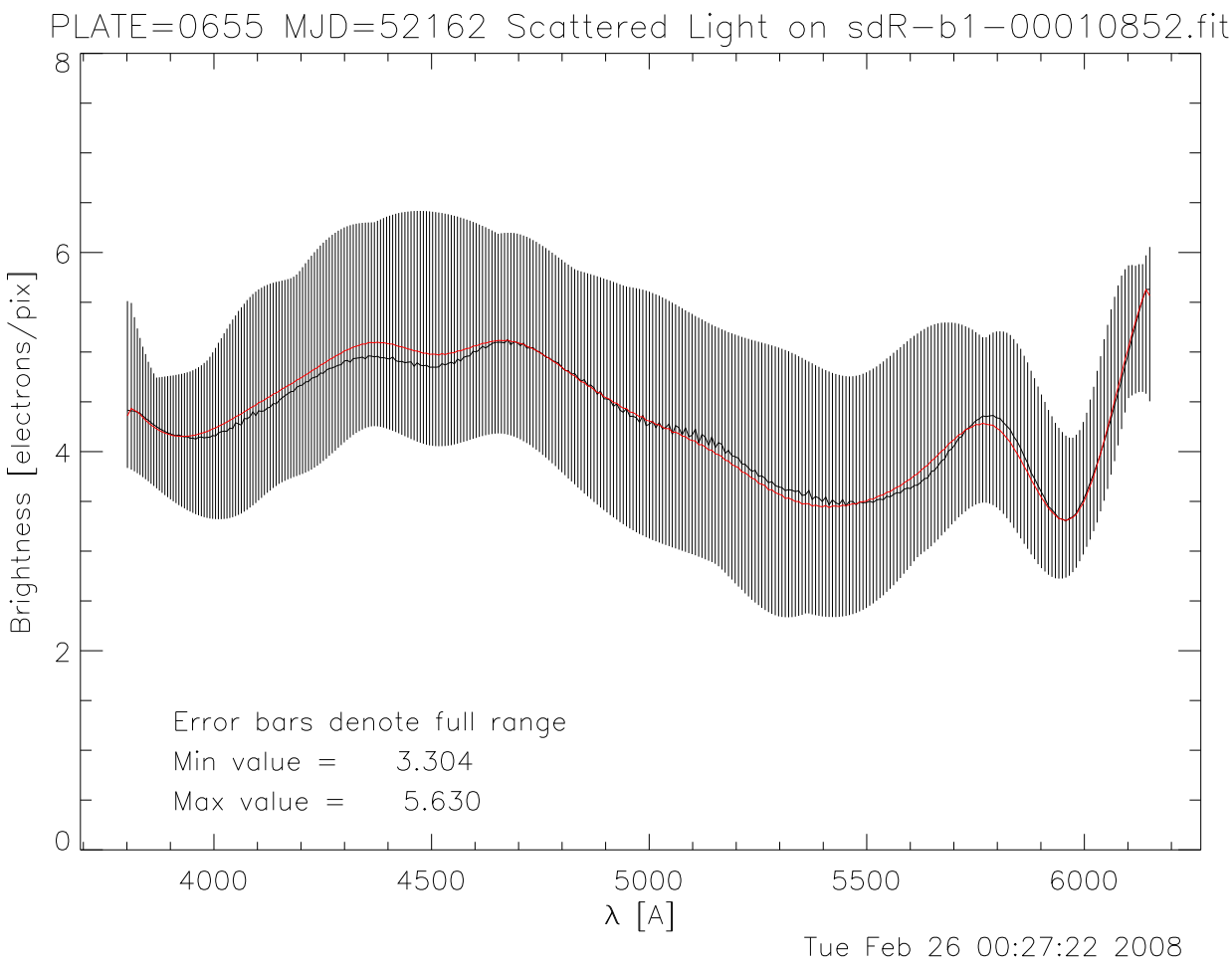

PLATE=0655 MJD=52162 Arcline Fit for sdR-b1-00010855.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 00:23:13 2008

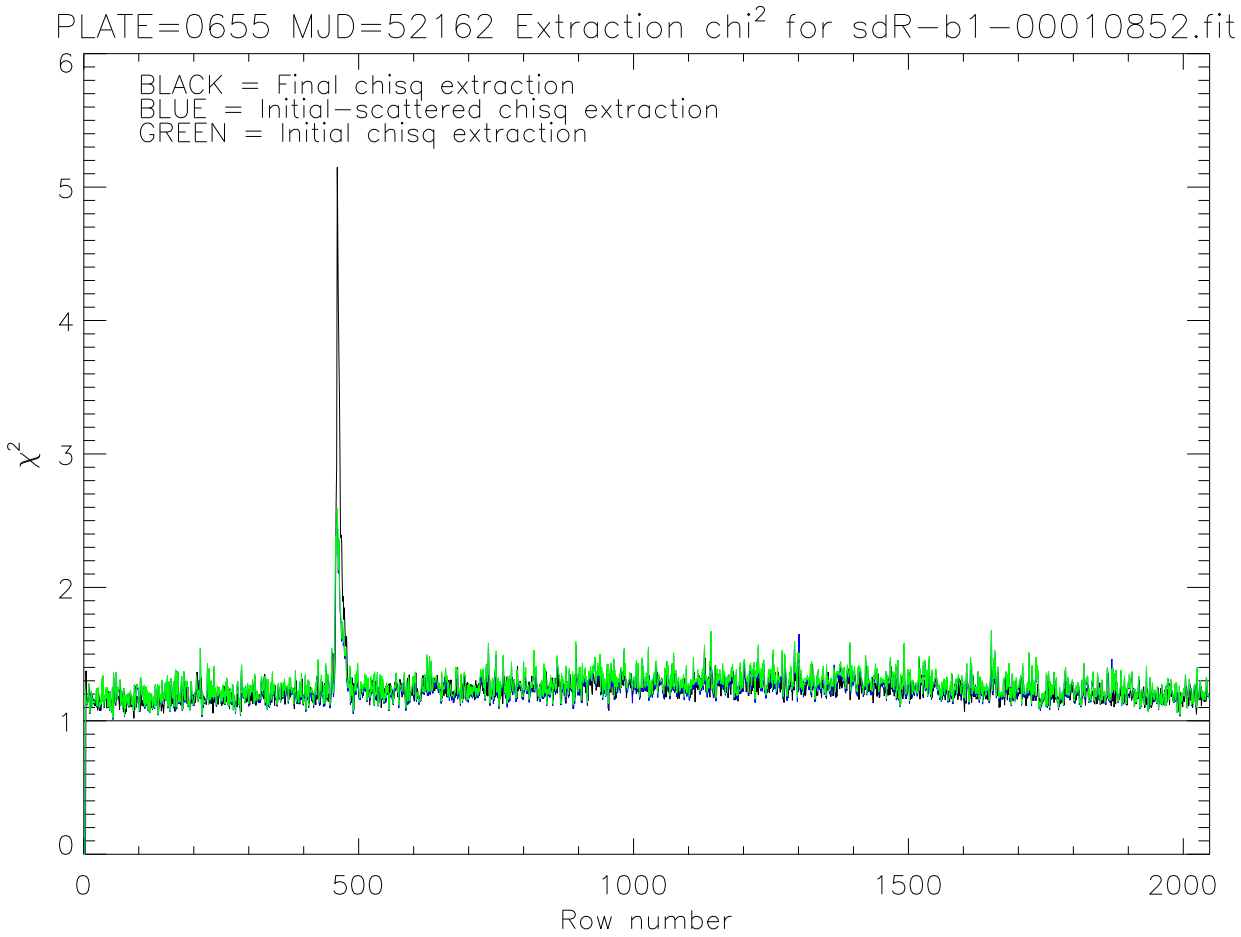

PLATE=0655 MJD=52162 Fiber-Flats for sdR-b1-00010854.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.254
Max value = 1.193
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 00:23:22 2008

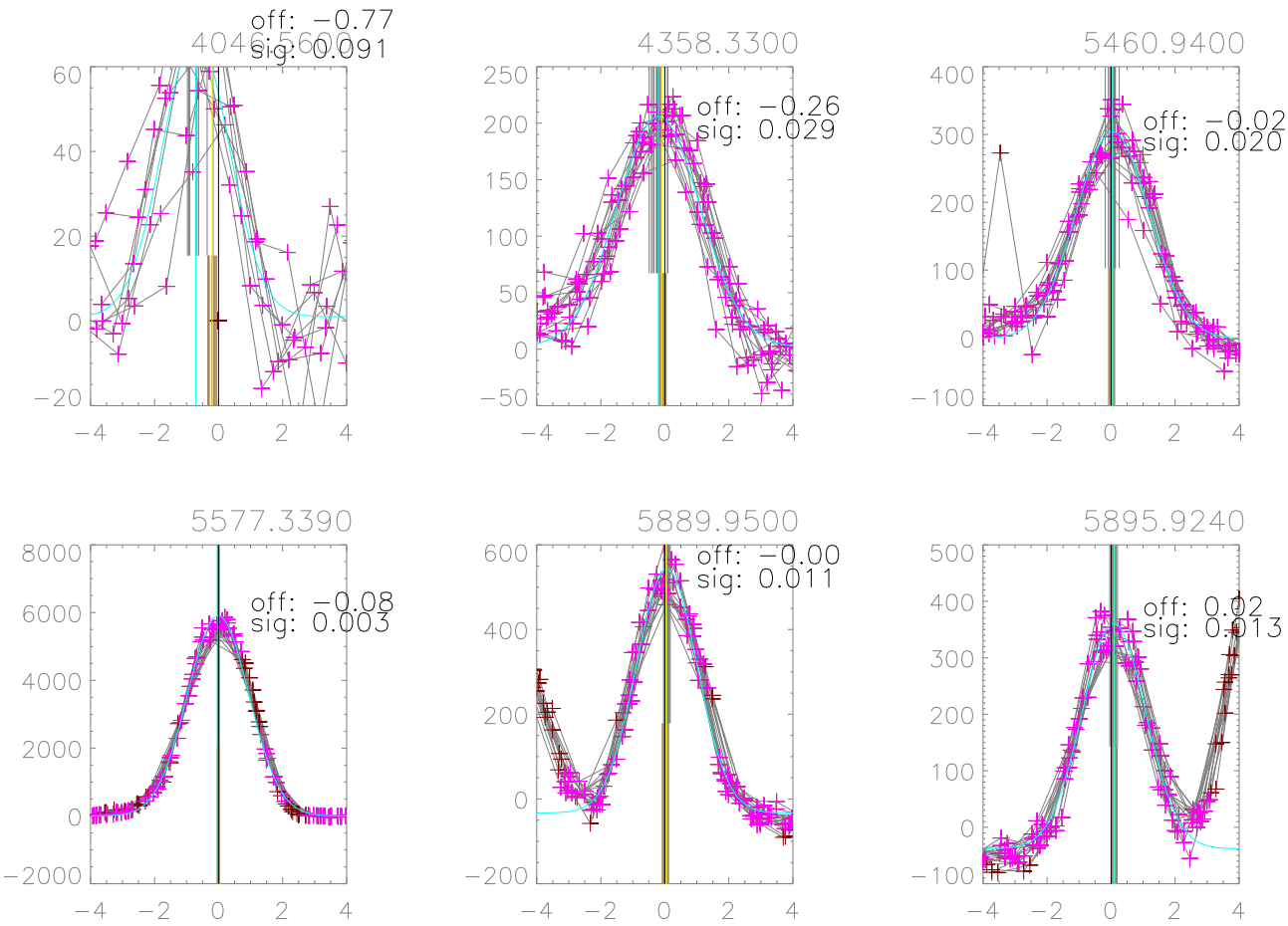

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR−b1−00010852.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
7.5
7.5
9.6
11.8
9.6
7.5
7.5
7.5
7.5

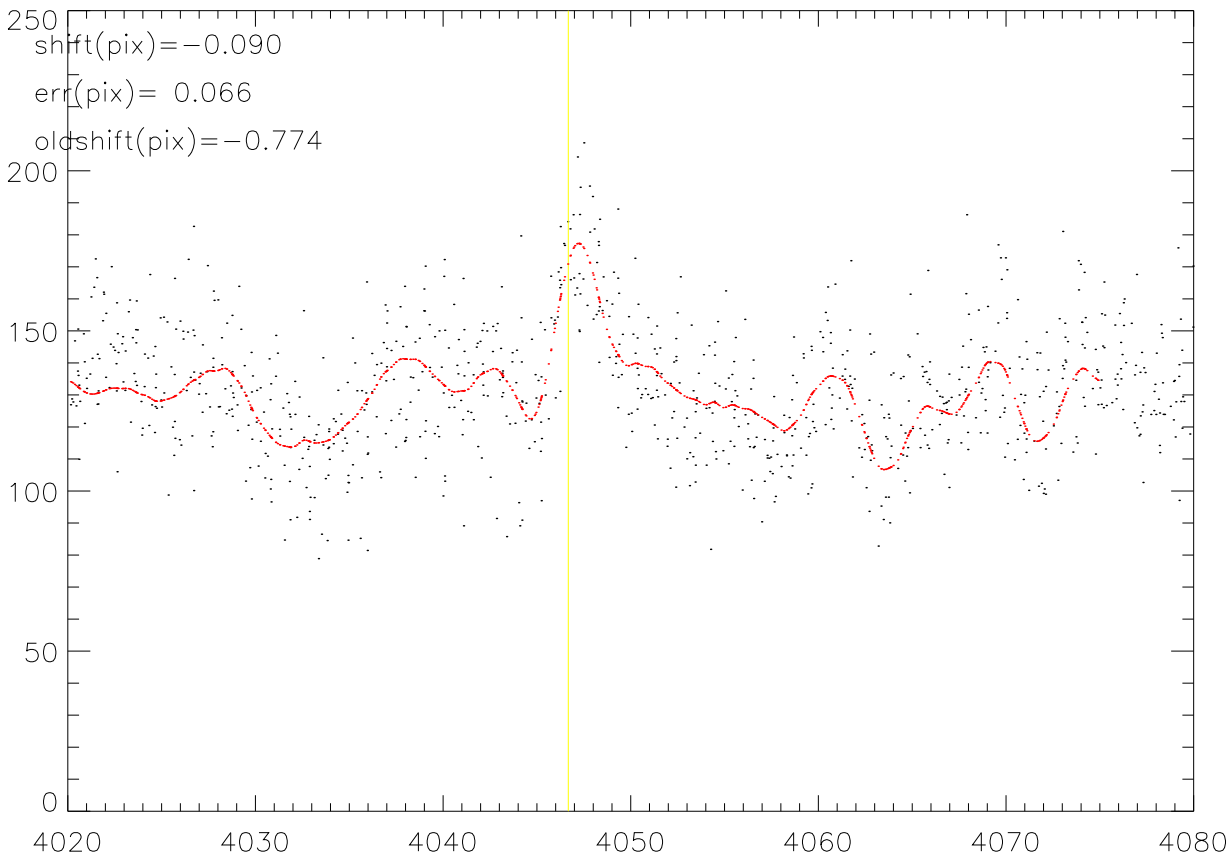

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-b1-00010852.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.673
Max value = 9.519
Tue Feb 26 00:24:18 2008

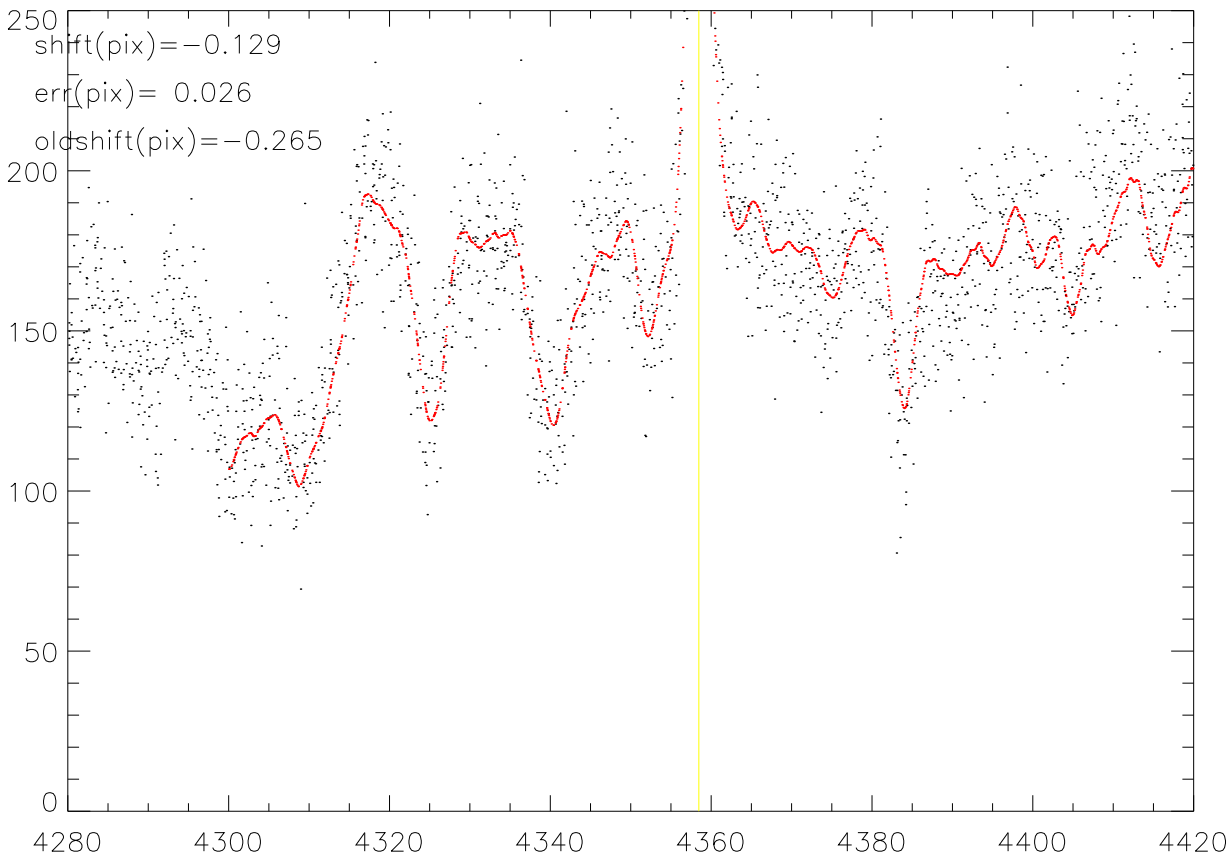

PLATE=0655 MJD=52162 Scattered Light on sdR-b1-00010852.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
4.27
5.18
3.36

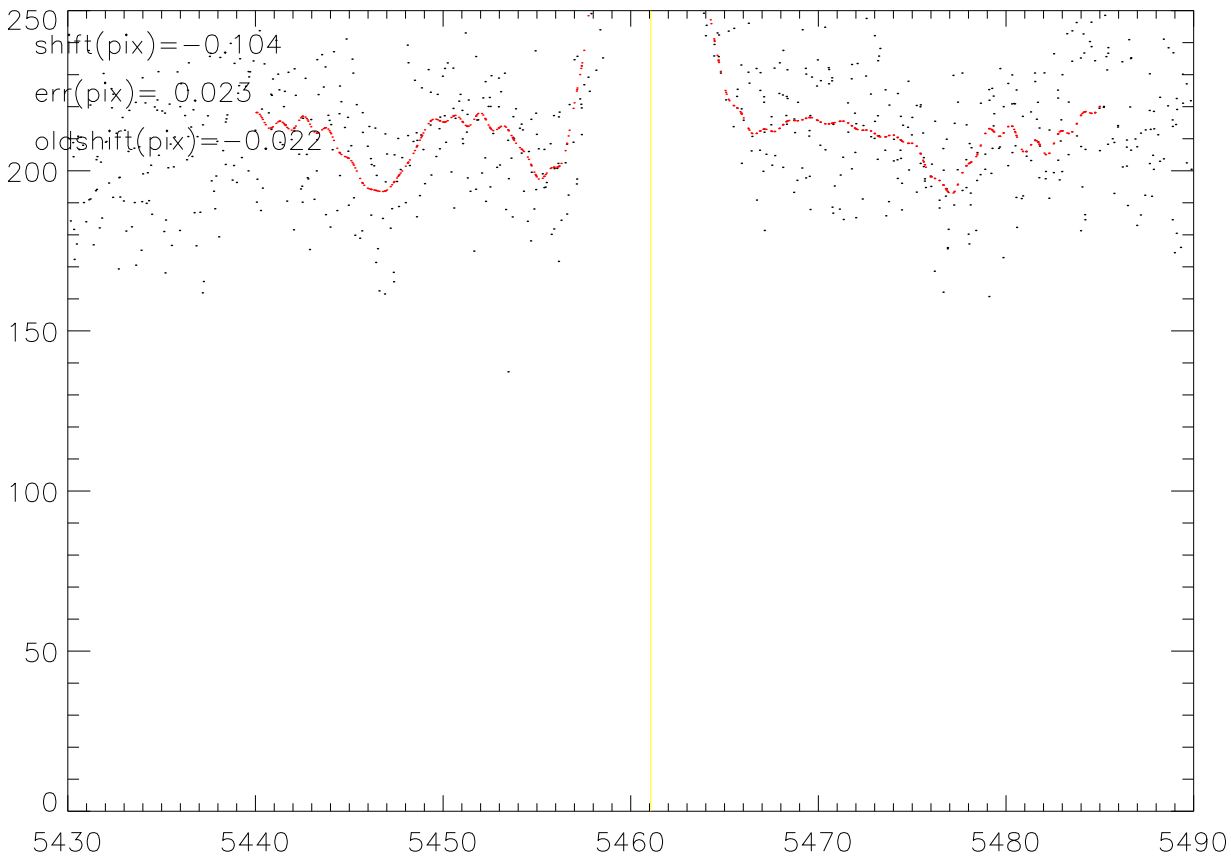

PLATE=0655 MJD=52162 Scattered Light on sdR-b1-00010852.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.304
Max value = 5.630
Tue Feb 26 00:27:22 2008

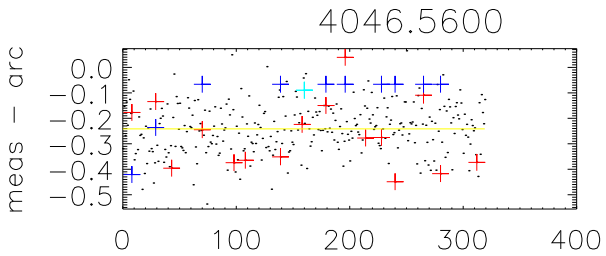

PLATE=0655 MJD=52162 Extraction chi^2 for sdR-b1-00010852.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

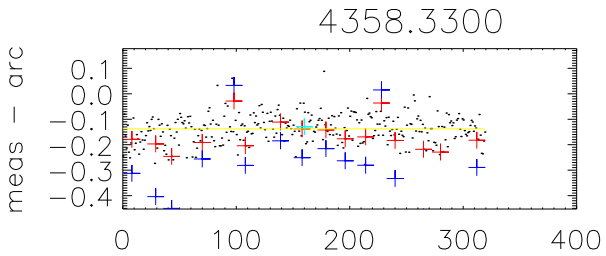

4046.5600
off: −0.77
sig: 0.091
4358.3300
off: −0.26
sig: 0.029
5460.9400
off: −0.02
sig: 0.020
5577.3390
off: −0.08
sig: 0.003
5889.9500
off: −0.00
sig: 0.011
5895.9240
off: 0.02
sig: 0.013

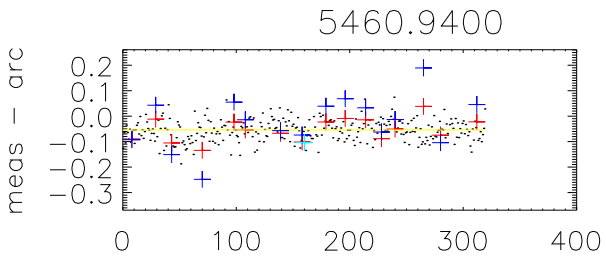

shift(pix)=−0.090
err(pix)= 0.066
oldshift(pix)=−0.774
250
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

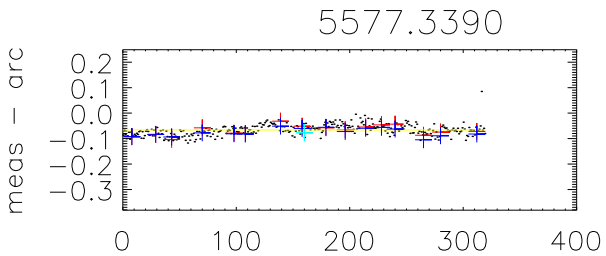

shift(pix)=−0.129
err(pix)= 0.026
oldshift(pix)=−0.265
250
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

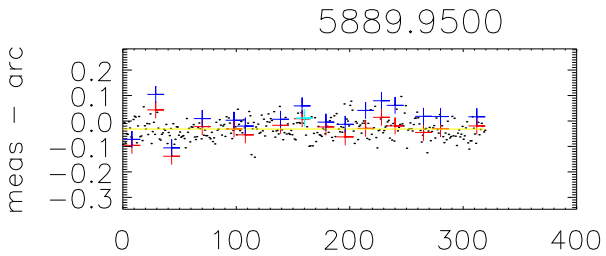

shift(pix)=−0.104
err(pix)= 0.023
oldshift(pix)=−0.022
250
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

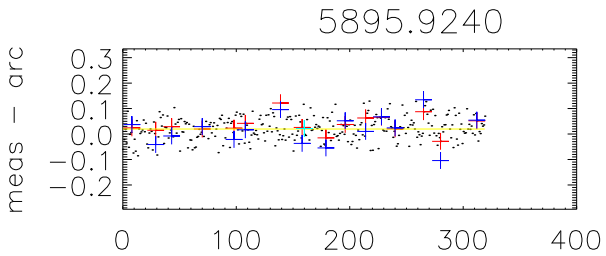

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

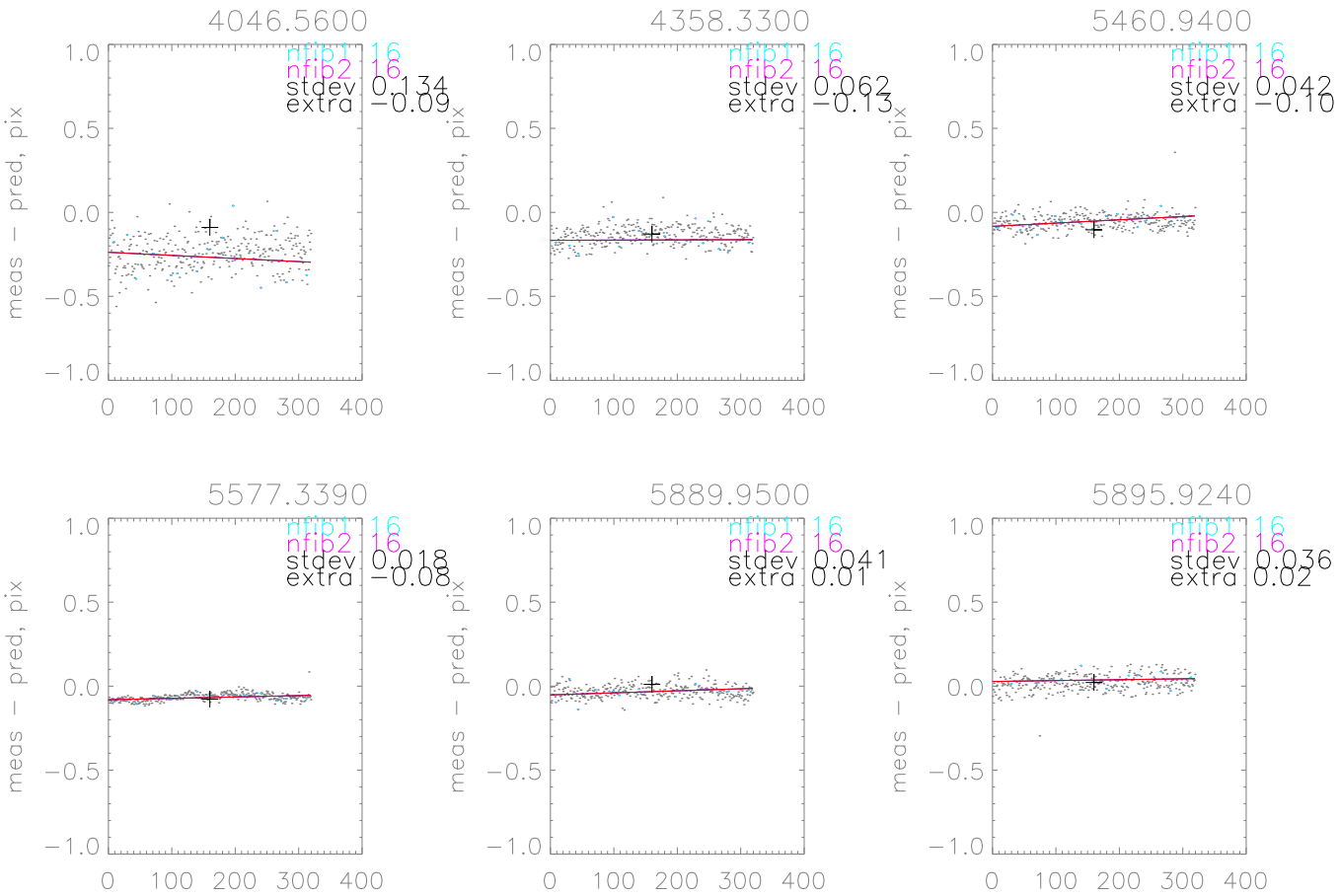

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

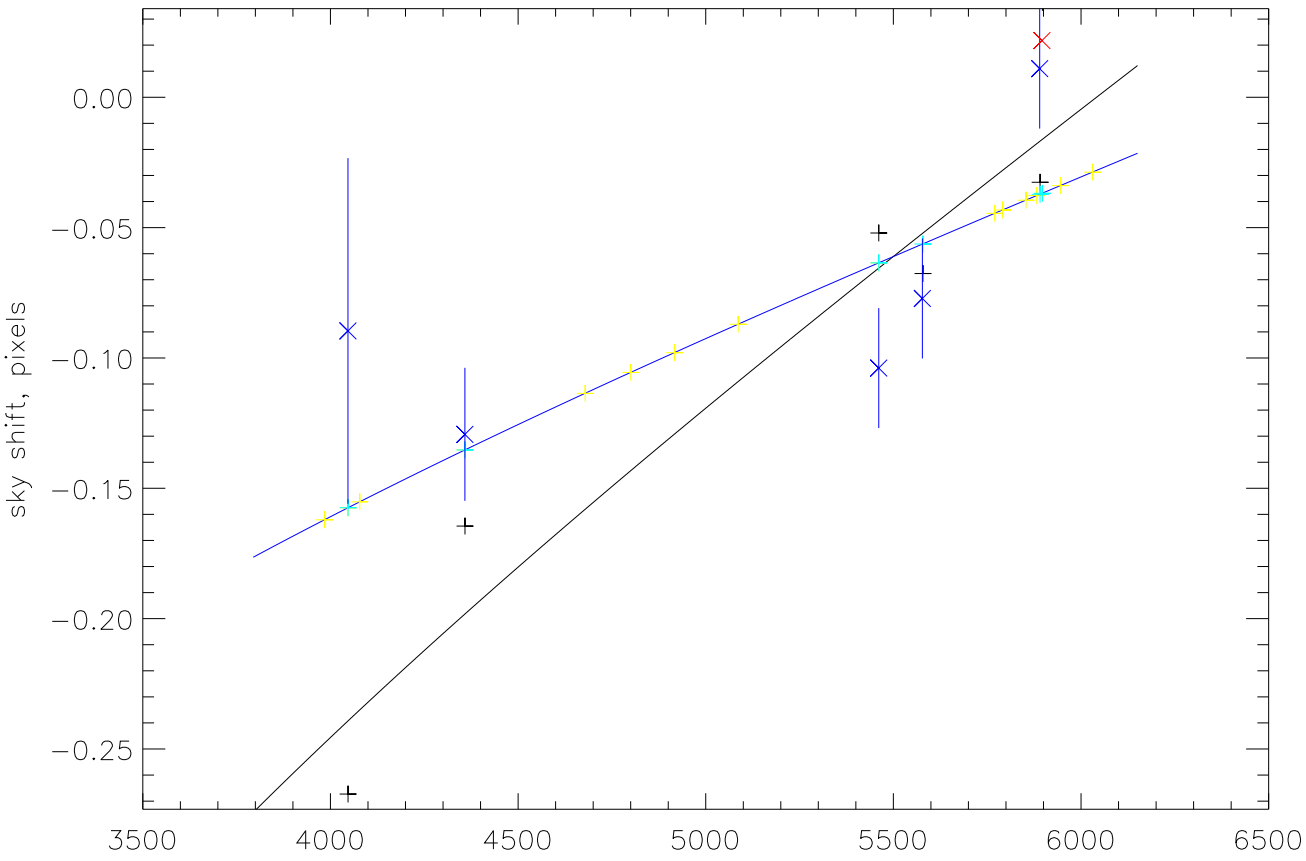

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

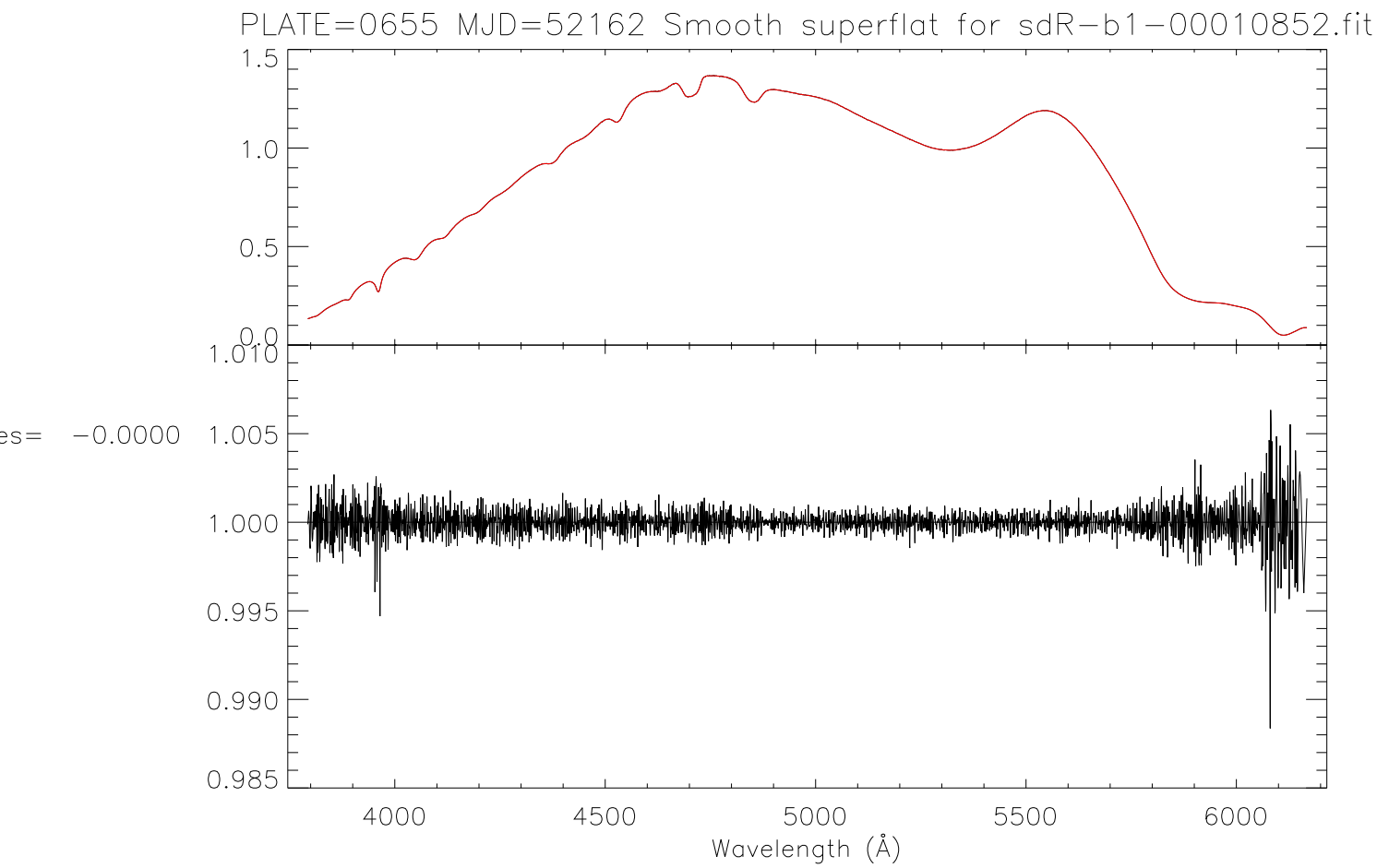

5577.3390
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

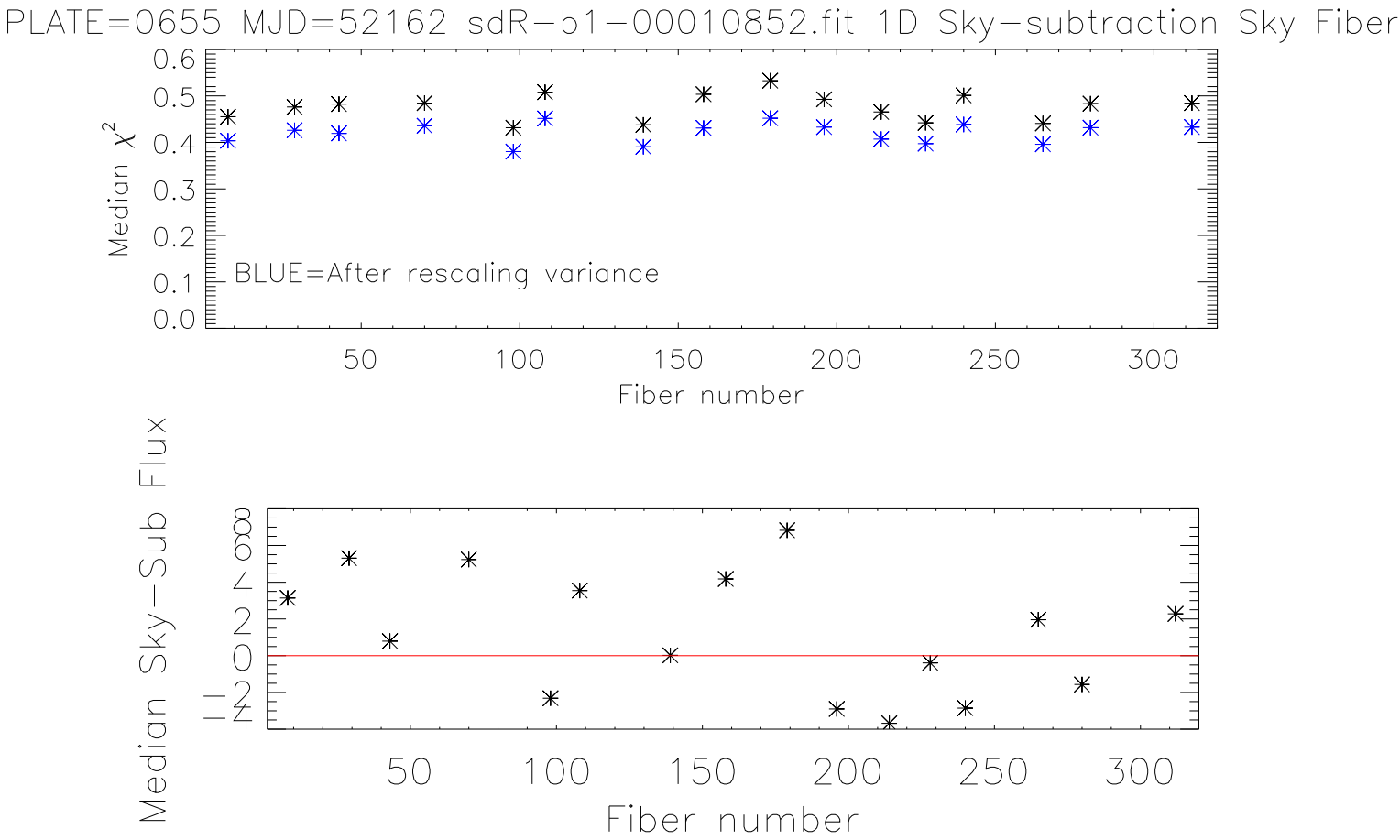

5889.9500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

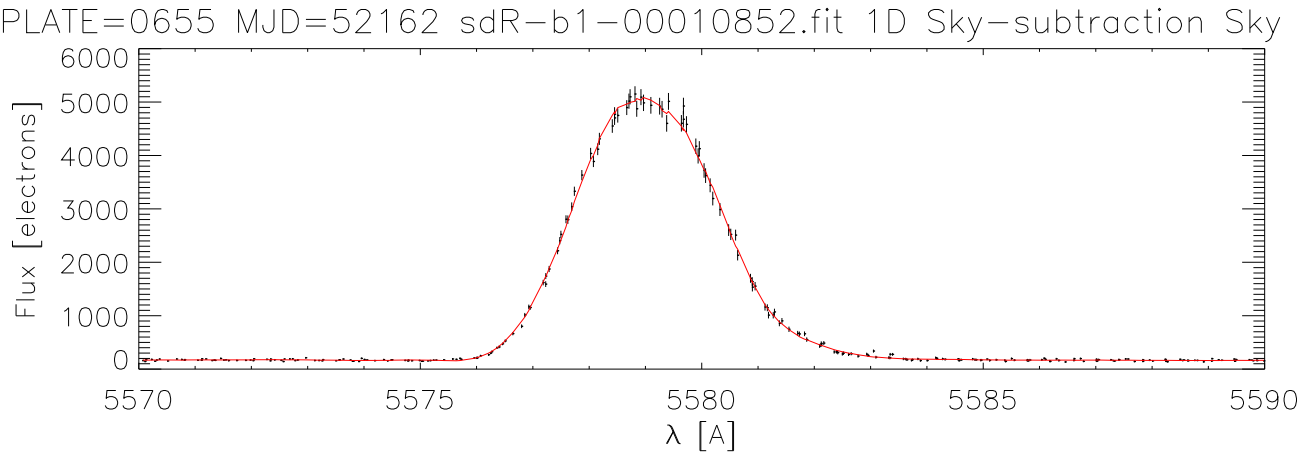

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

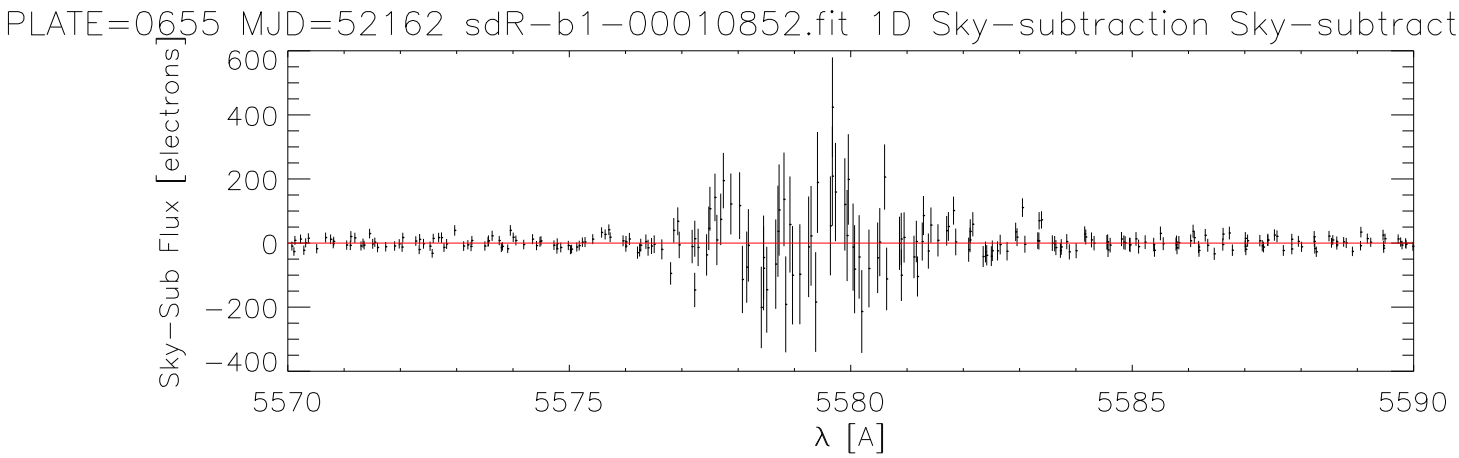

4046.5600
nfib1 16
nfib2 16
stdev 0.134
extra −0.09
4358.3300
nfib1 16
nfib2 16
stdev 0.062
extra −0.13
5460.9400
nfib1 16
nfib2 16
stdev 0.042
extra −0.10
5577.3390
nfib1 16
nfib2 16
stdev 0.018
extra −0.08
5889.9500
nfib1 16
nfib2 16
stdev 0.041
extra 0.01
5895.9240
nfib1 16
nfib2 16
stdev 0.036
extra 0.02
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

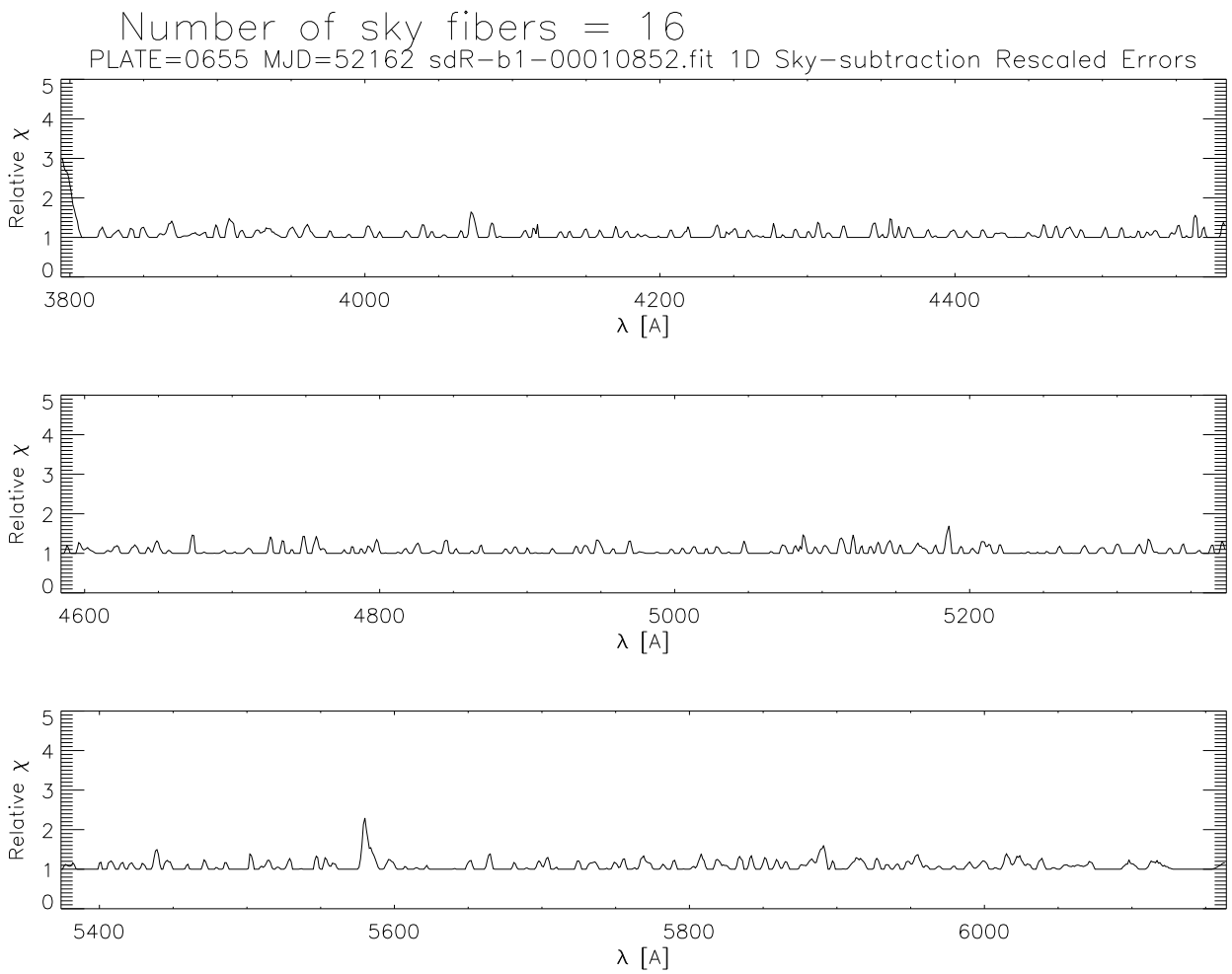

0.00
−0.05
−0.10
−0.15
−0.20
−0.25
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

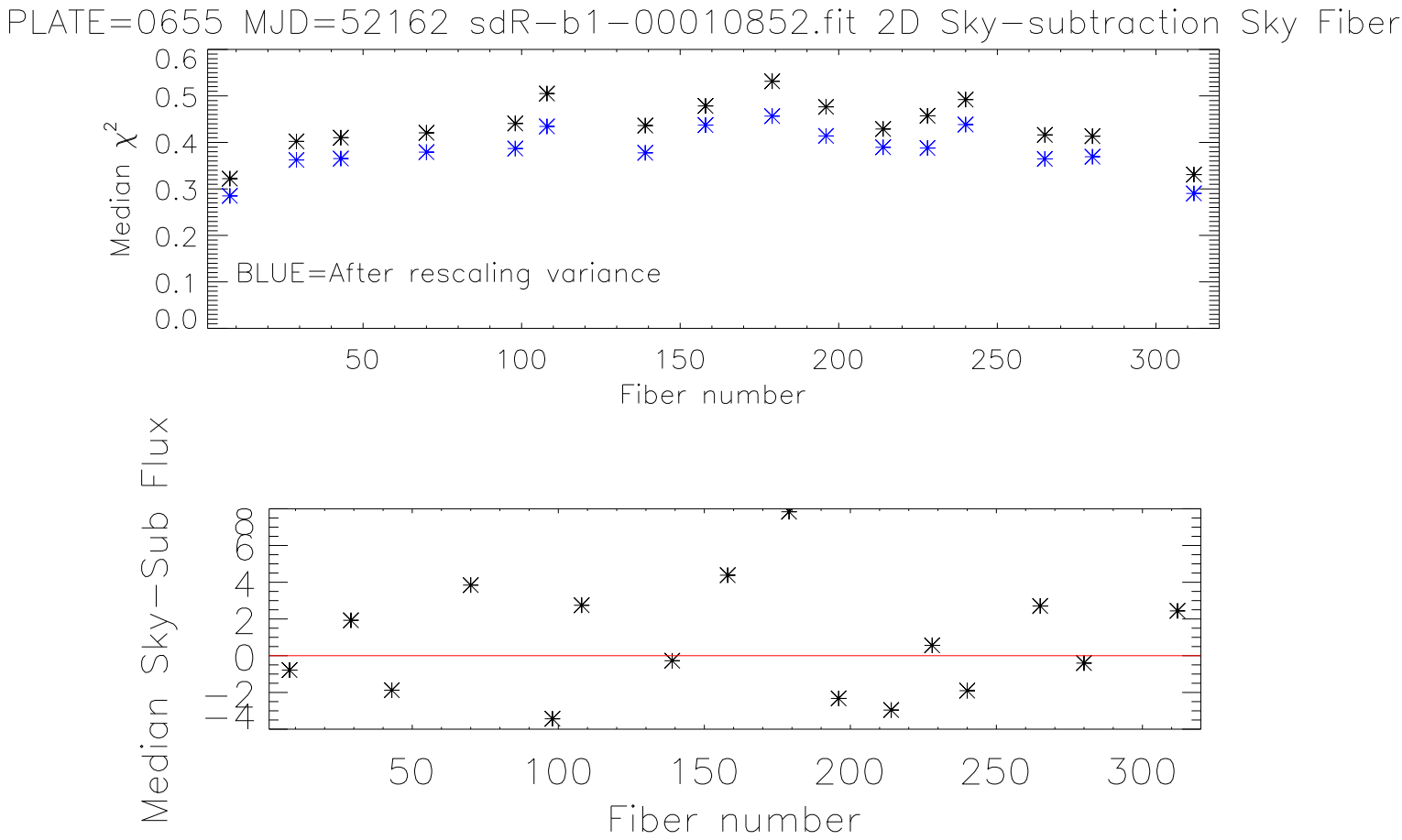

PLATE=0655 MJD=52162 Smooth superflat for sdR-b1-00010852.fit
1.5
1.0
0.5
0.0
es= -0.0000
1.010
1.005
1.000
0.995
0.990
0.985
4000
4500
5000
5500
6000
Wavelength (Å)

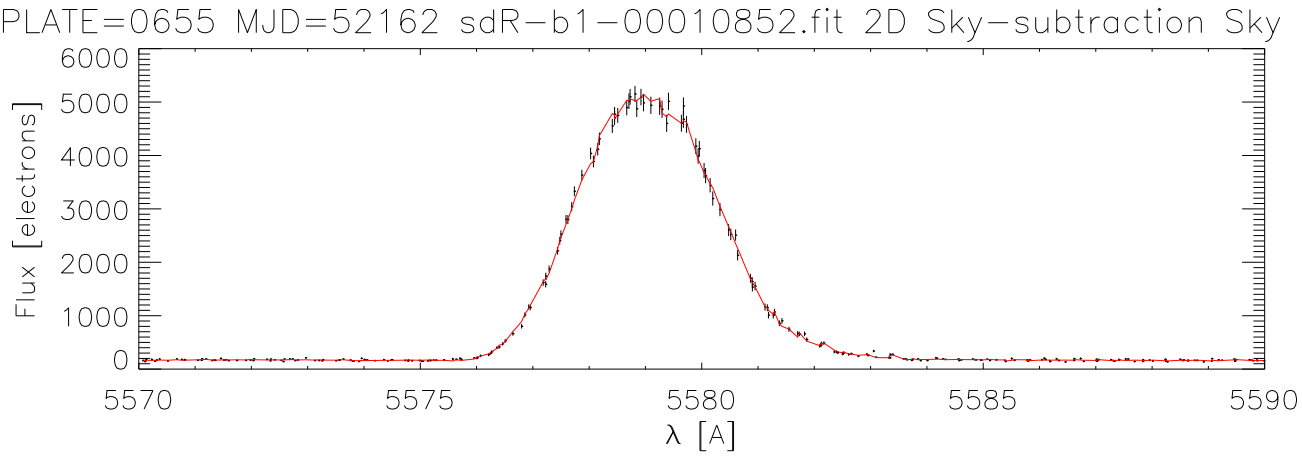

PLATE=0655 MJD=52162 sdR-b1-00010852.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

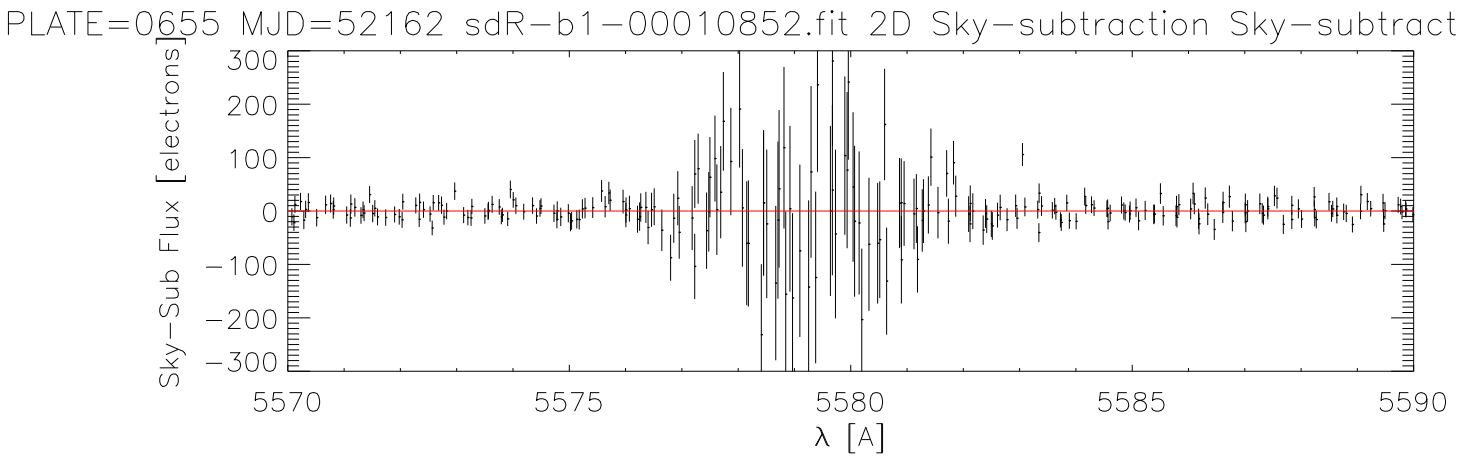

PLATE=0655 MJD=52162 sdR-b1-00010852.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

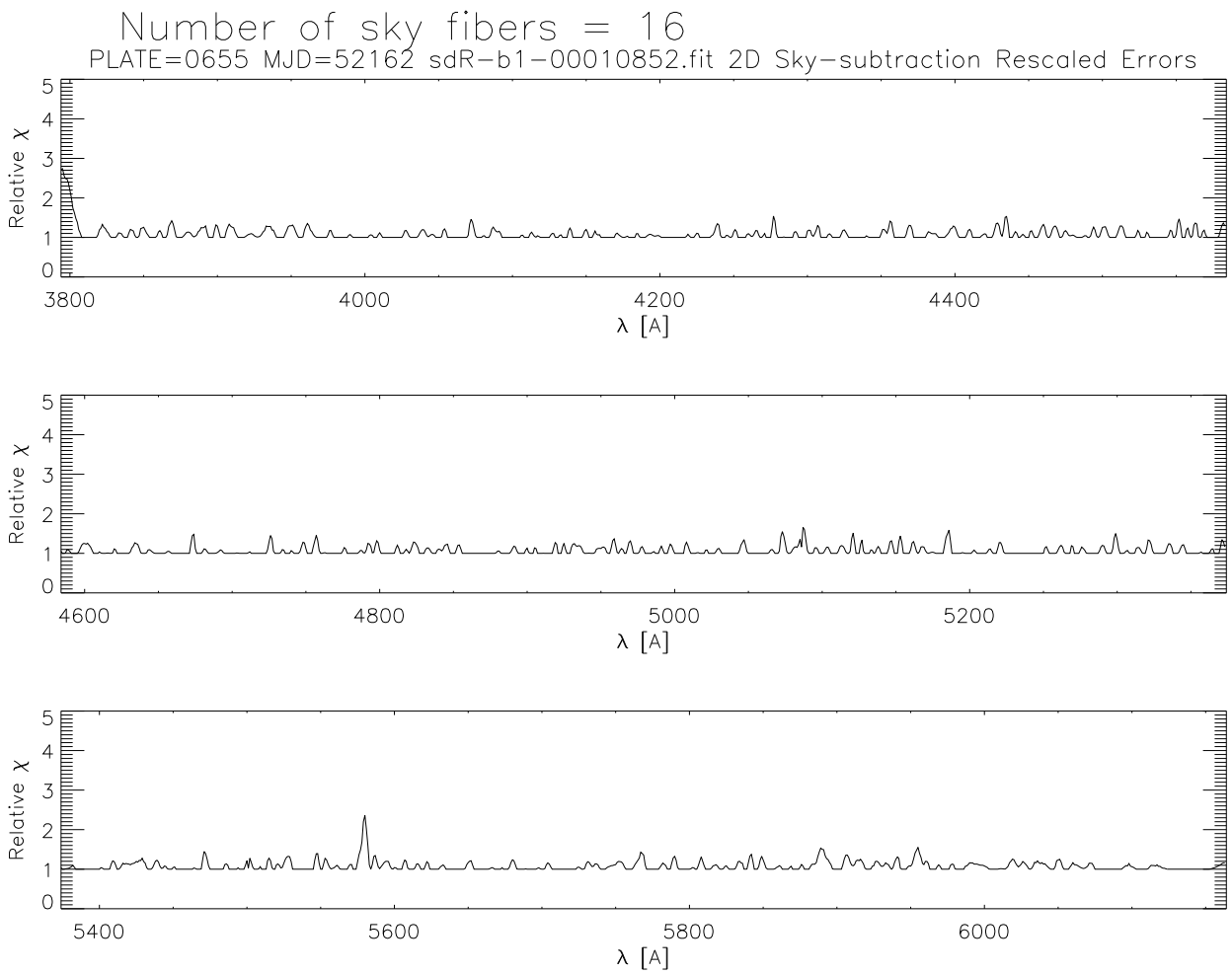

PLATE=0655 MJD=52162 sdR-b1-00010852.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

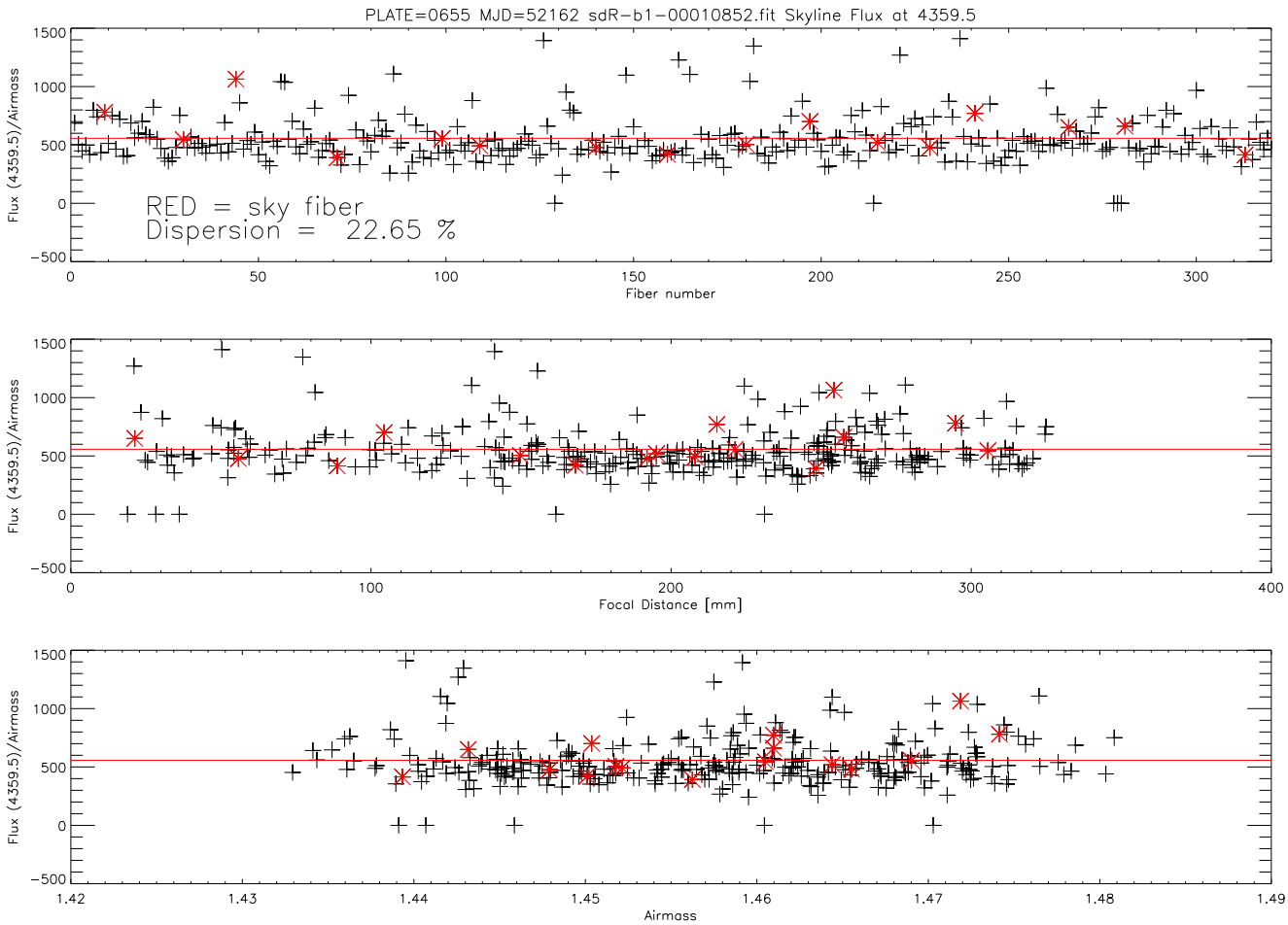

Number of sky fibers = 16
PLATE=0655 MJD=52162 sdR-b1-00010852.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

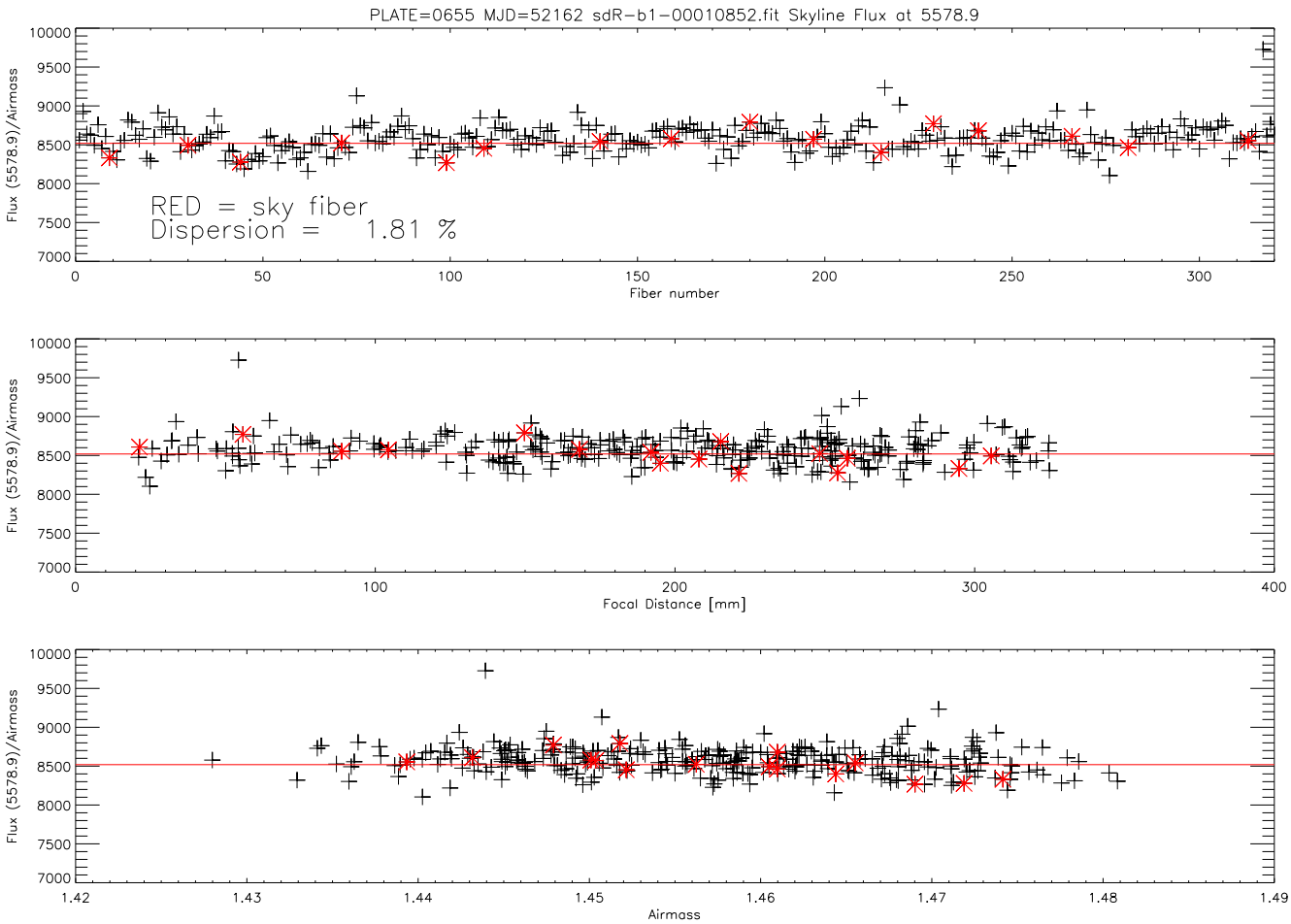

PLATE=0655 MJD=52162 sdR-b1-00010852.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

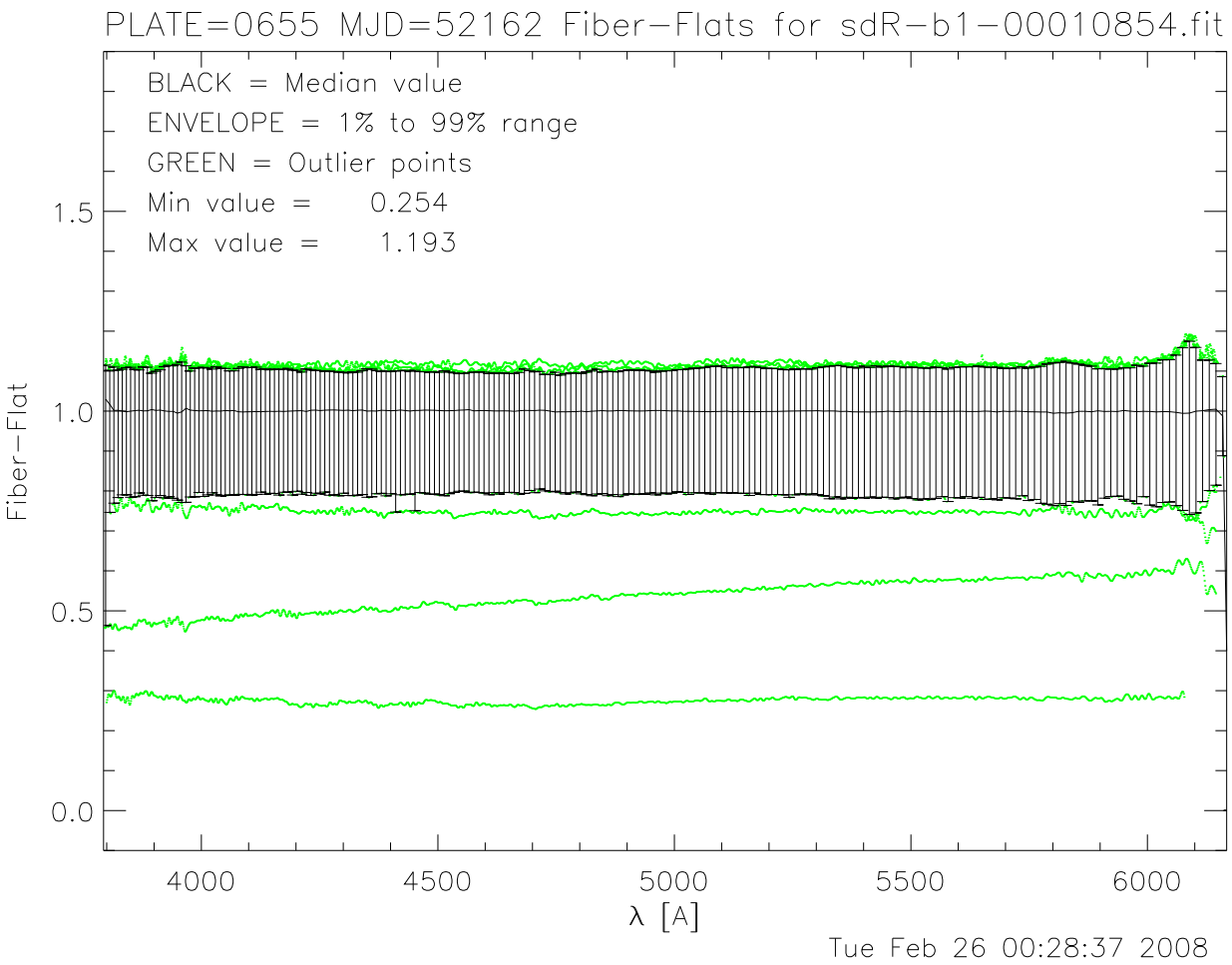

PLATE=0655 MJD=52162 sdR-b1-00010852.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

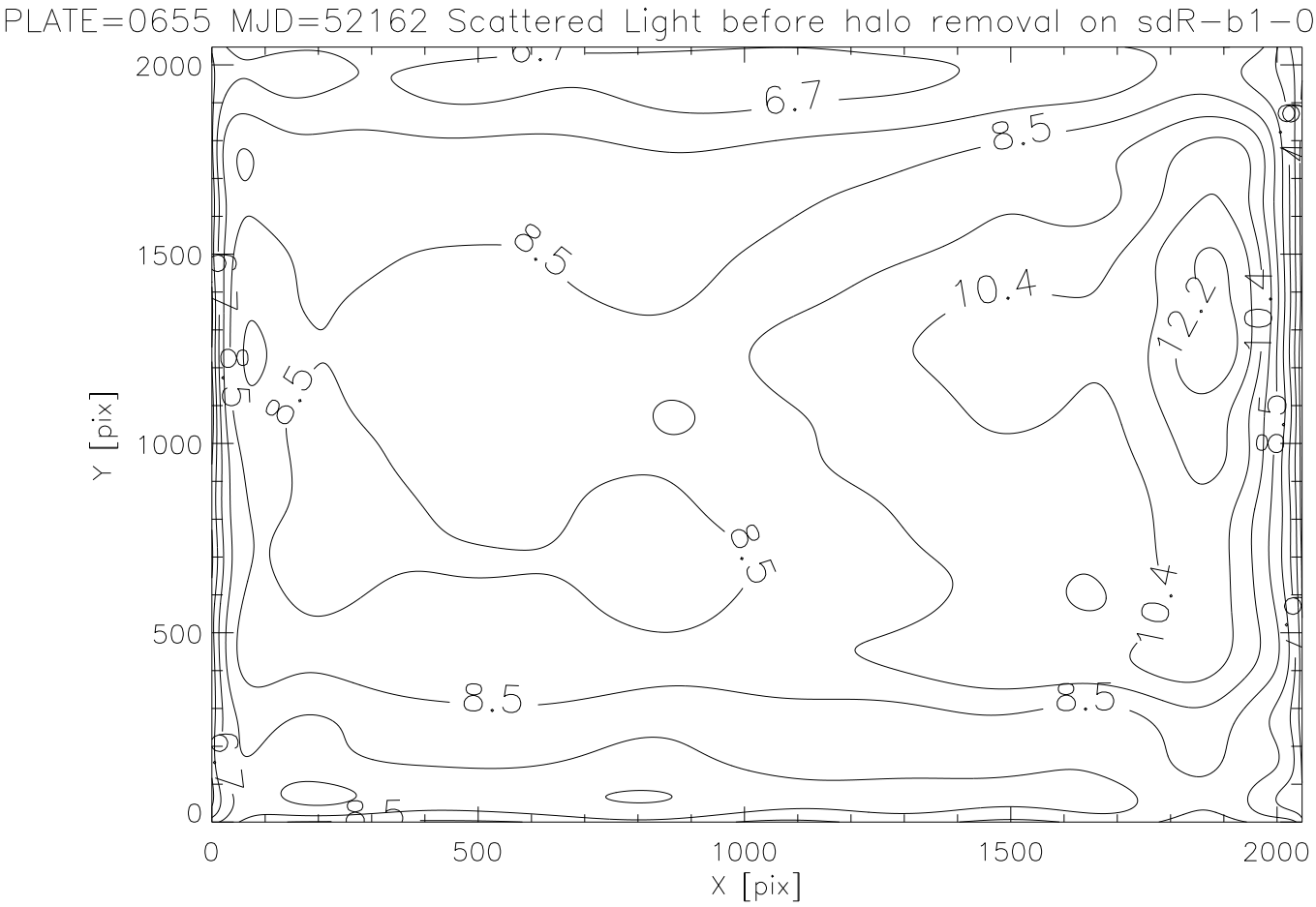

PLATE=0655 MJD=52162 sdR-b1-00010852.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

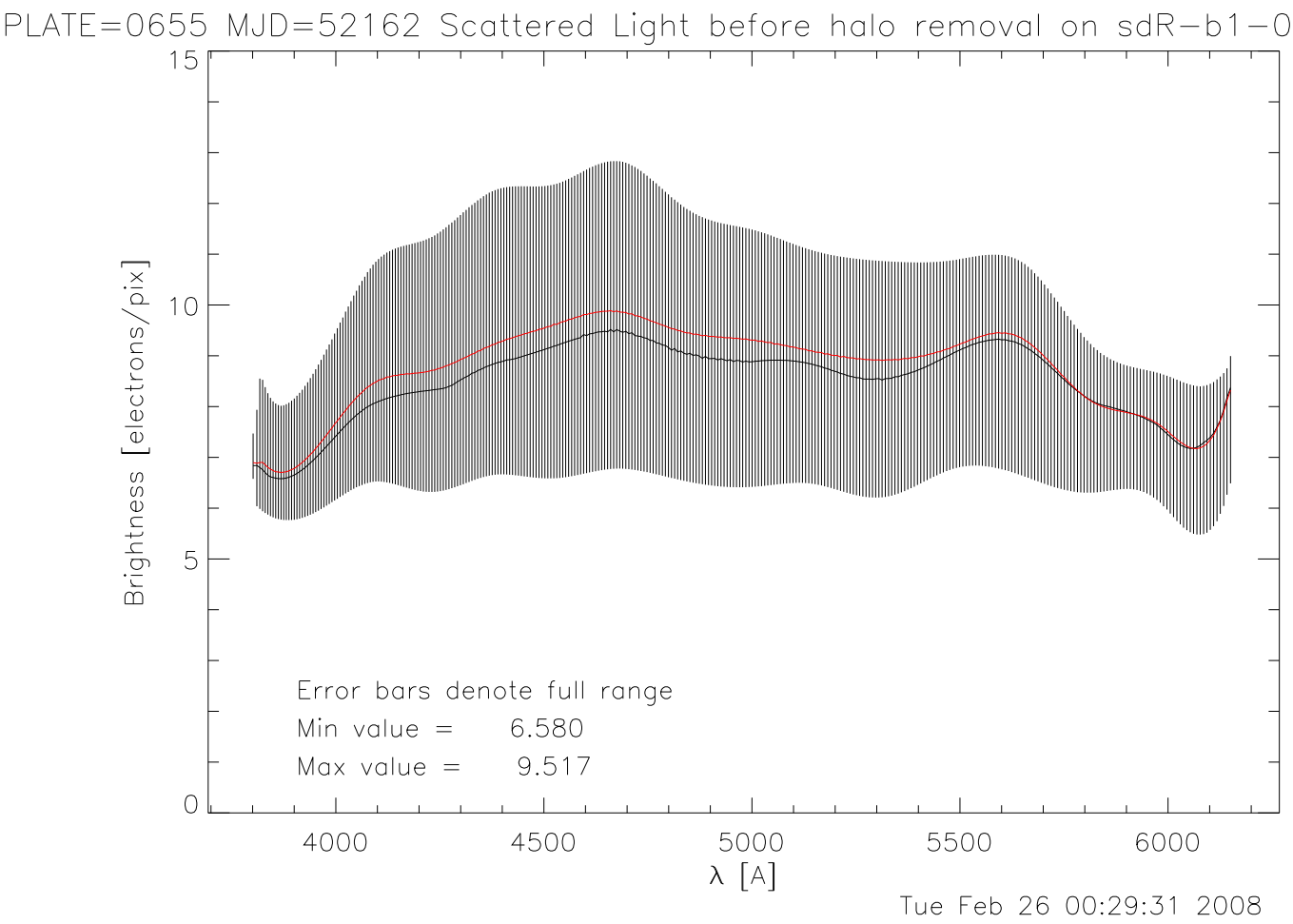

Number of sky fibers = 16
PLATE=0655 MJD=52162 sdR-b1-00010852.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

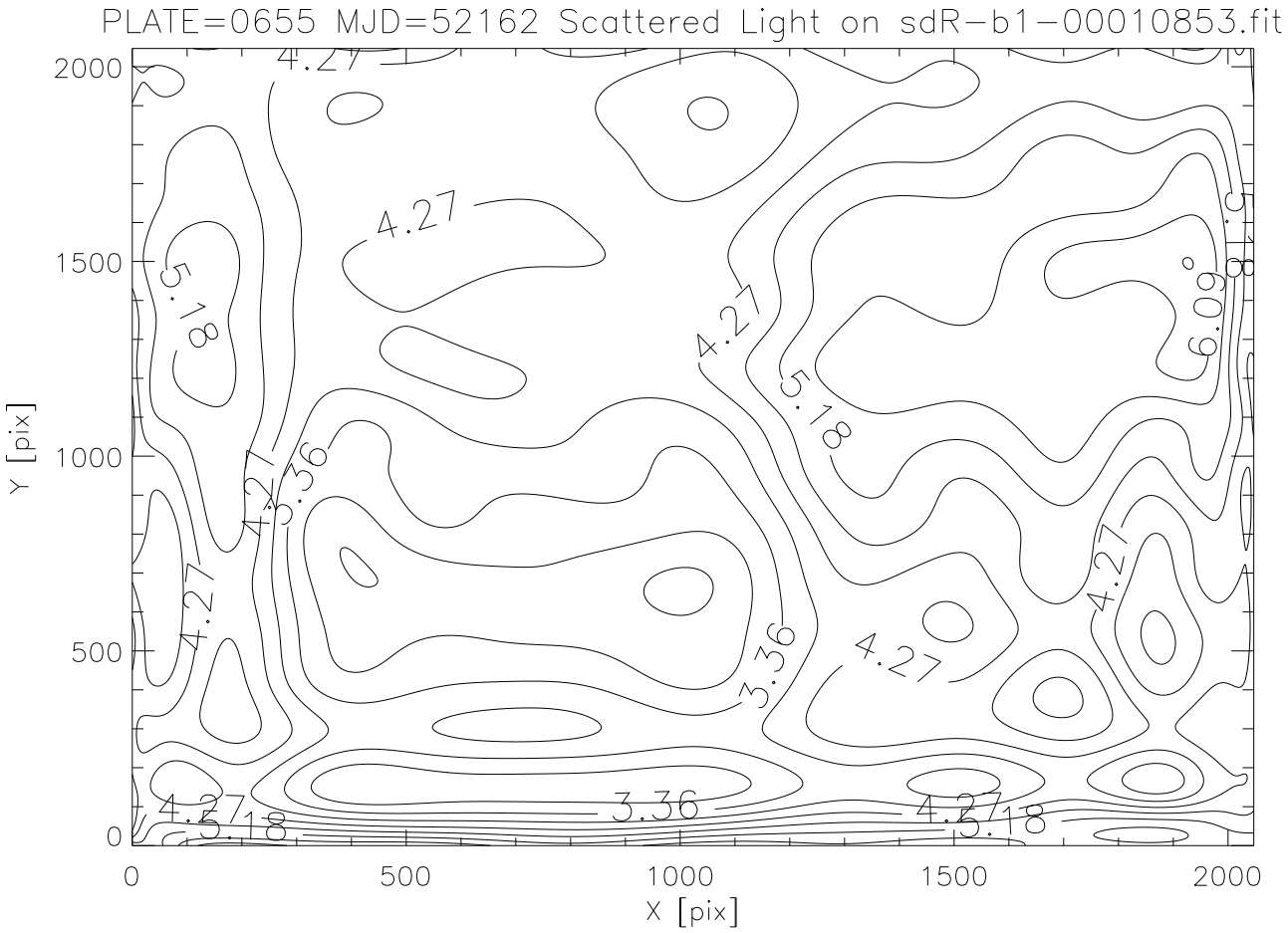

PLATE=0655 MJD=52162 sdR-b1-00010852.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 22.65 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

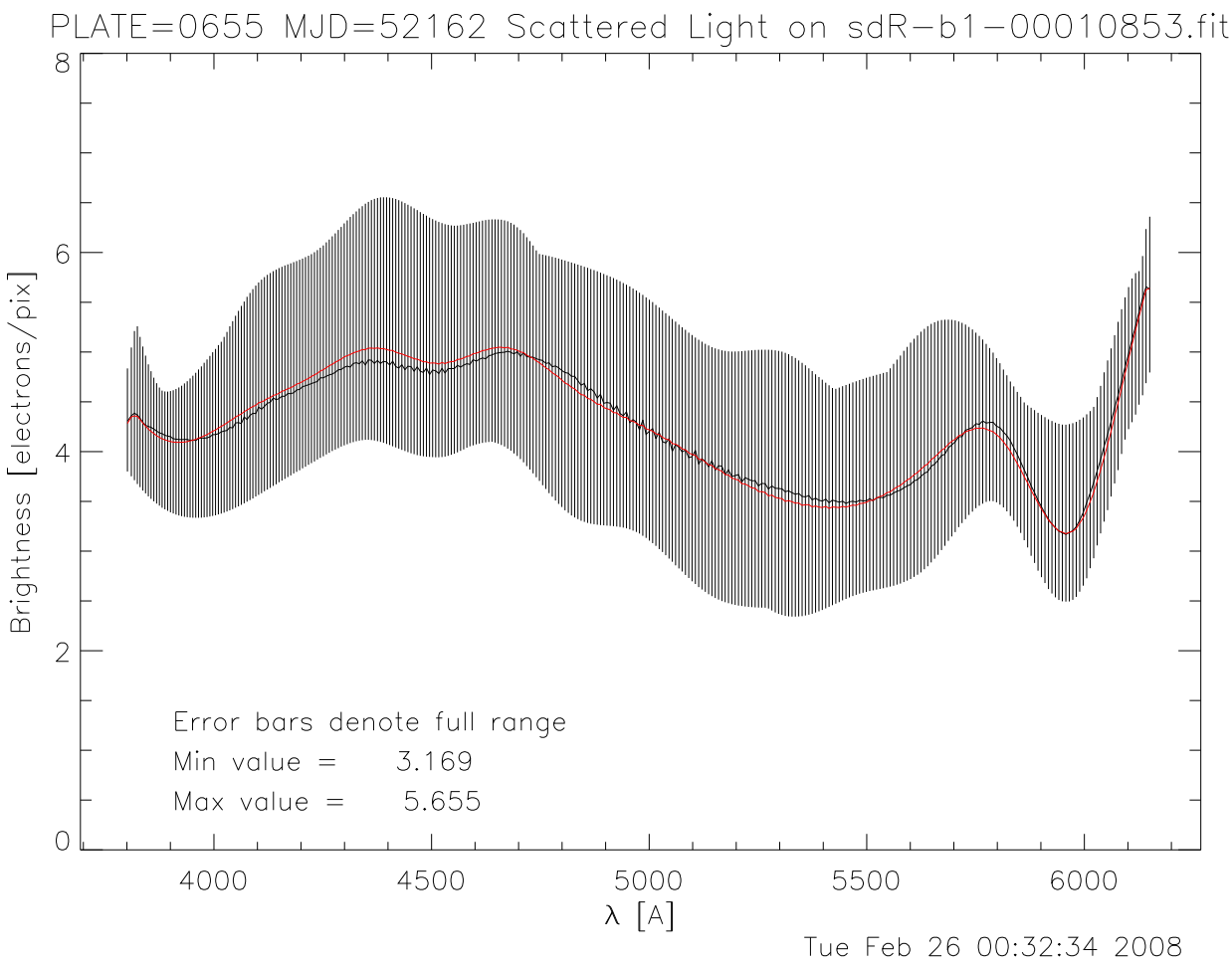

PLATE=0655 MJD=52162 sdR-b1-00010852.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.81 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

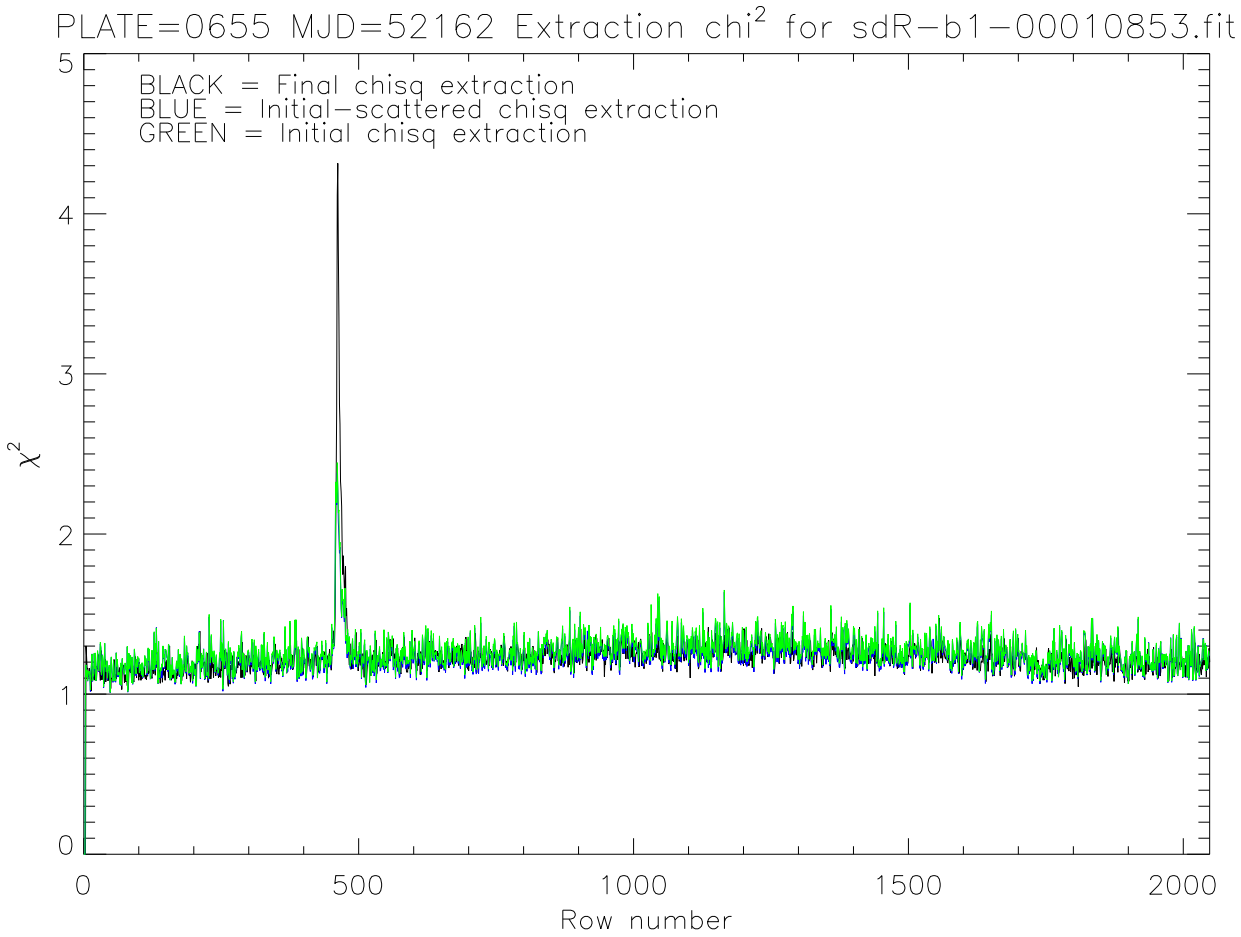

PLATE=0655 MJD=52162 Fiber-Flats for sdR-b1-00010854.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.254
Max value = 1.193
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 00:28:37 2008

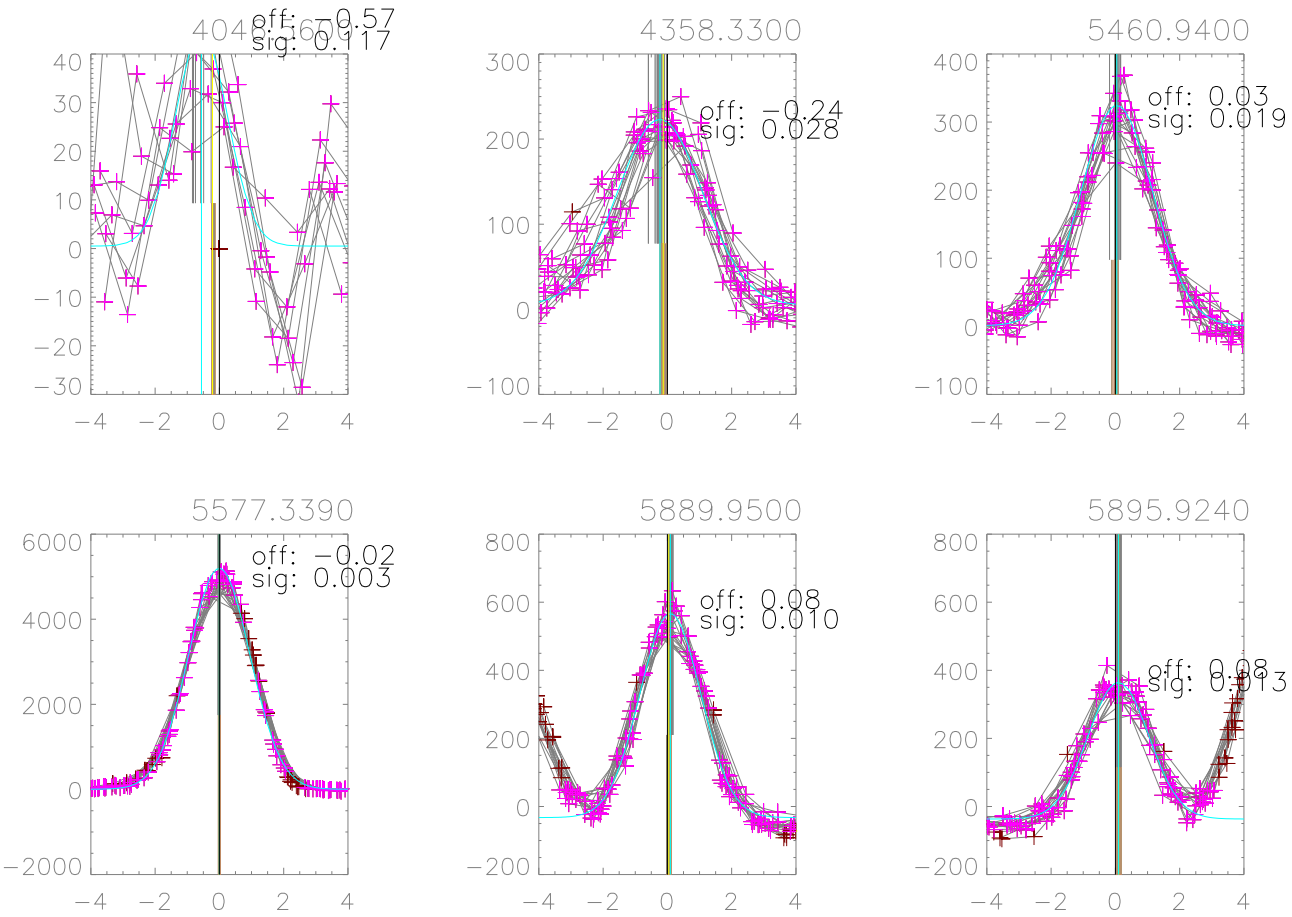

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR−b1−00010853.f
6.7
8.5
10.4
12.2
Y [pix]
X [pix]
0
500
1000
1500
2000

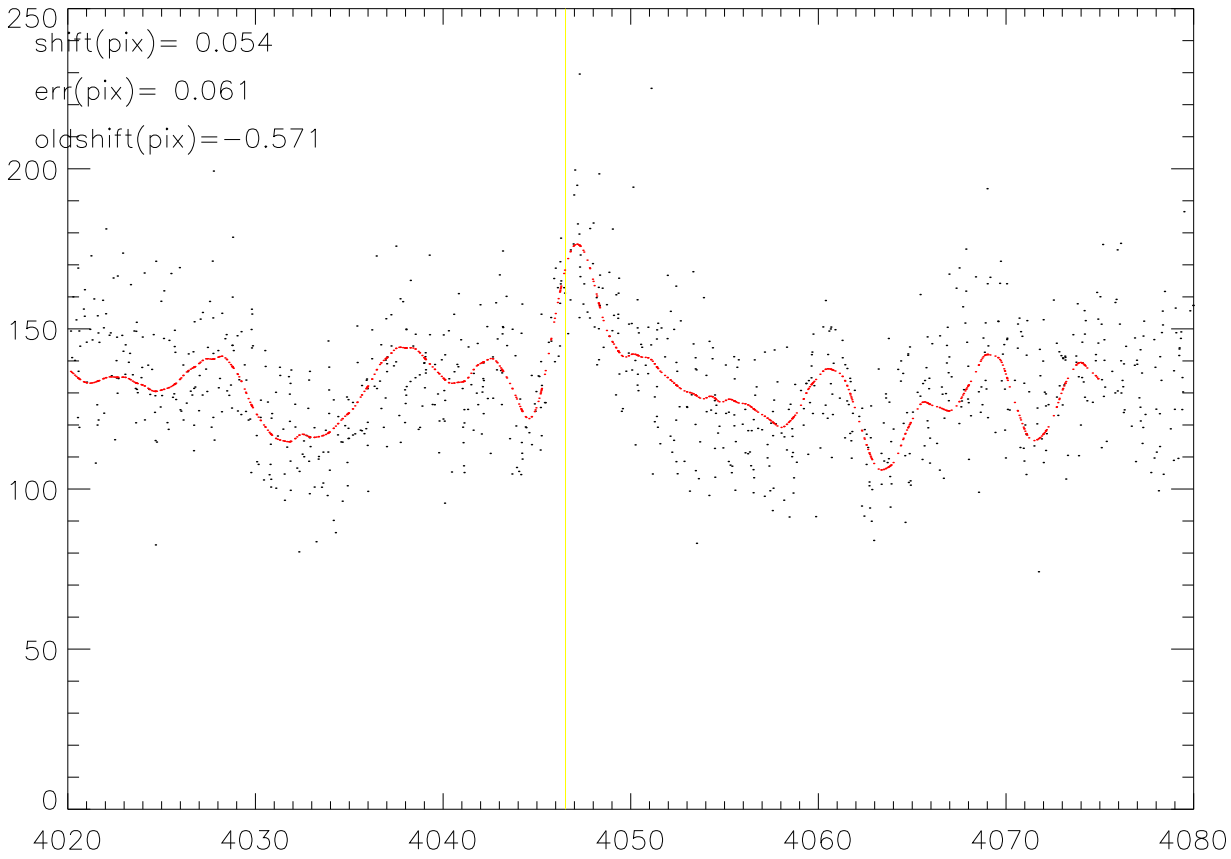

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-b1-00010853.f
Brightness [electrons/pix]
15
10
5
0
Error bars denote full range
Min value = 6.580
Max value = 9.517
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 00:29:31 2008

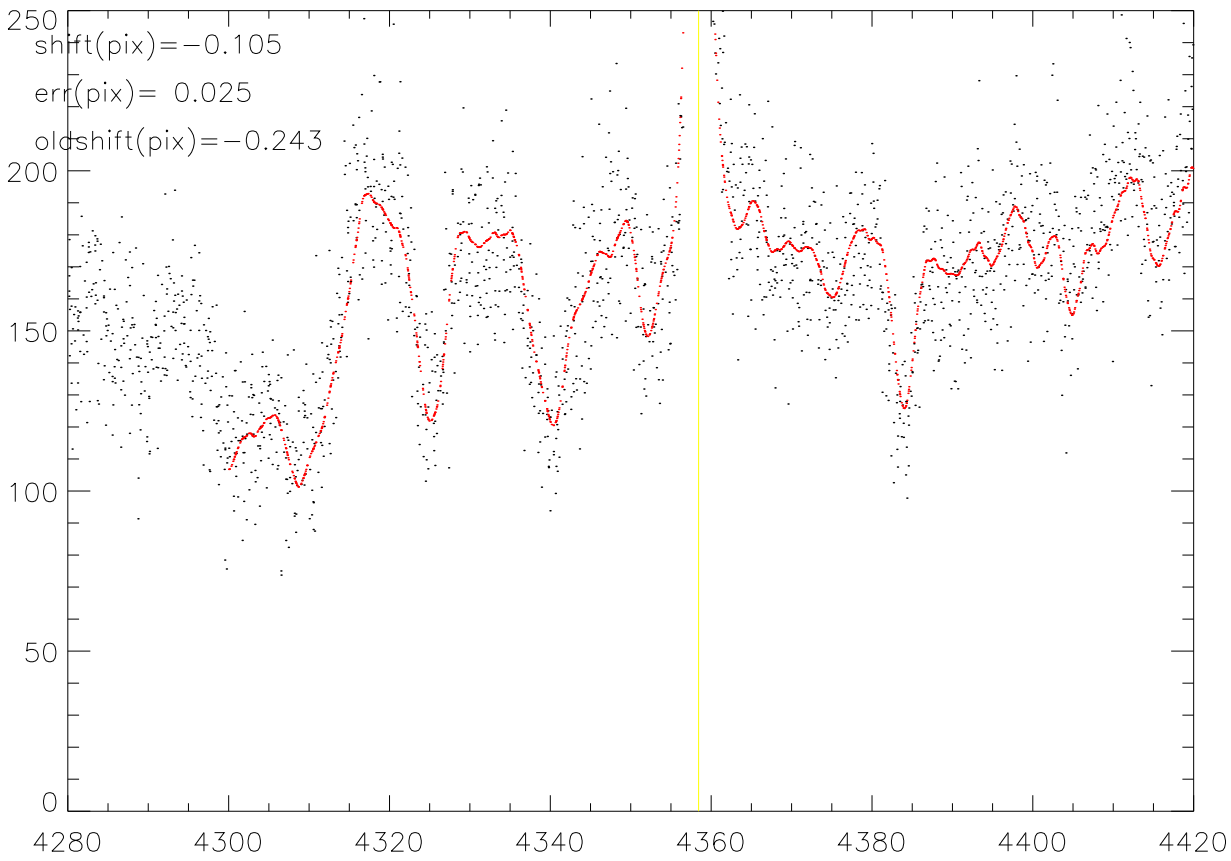

PLATE=0655 MJD=52162 Scattered Light on sdR-b1-00010853.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
4.27
5.18
3.36
6.09

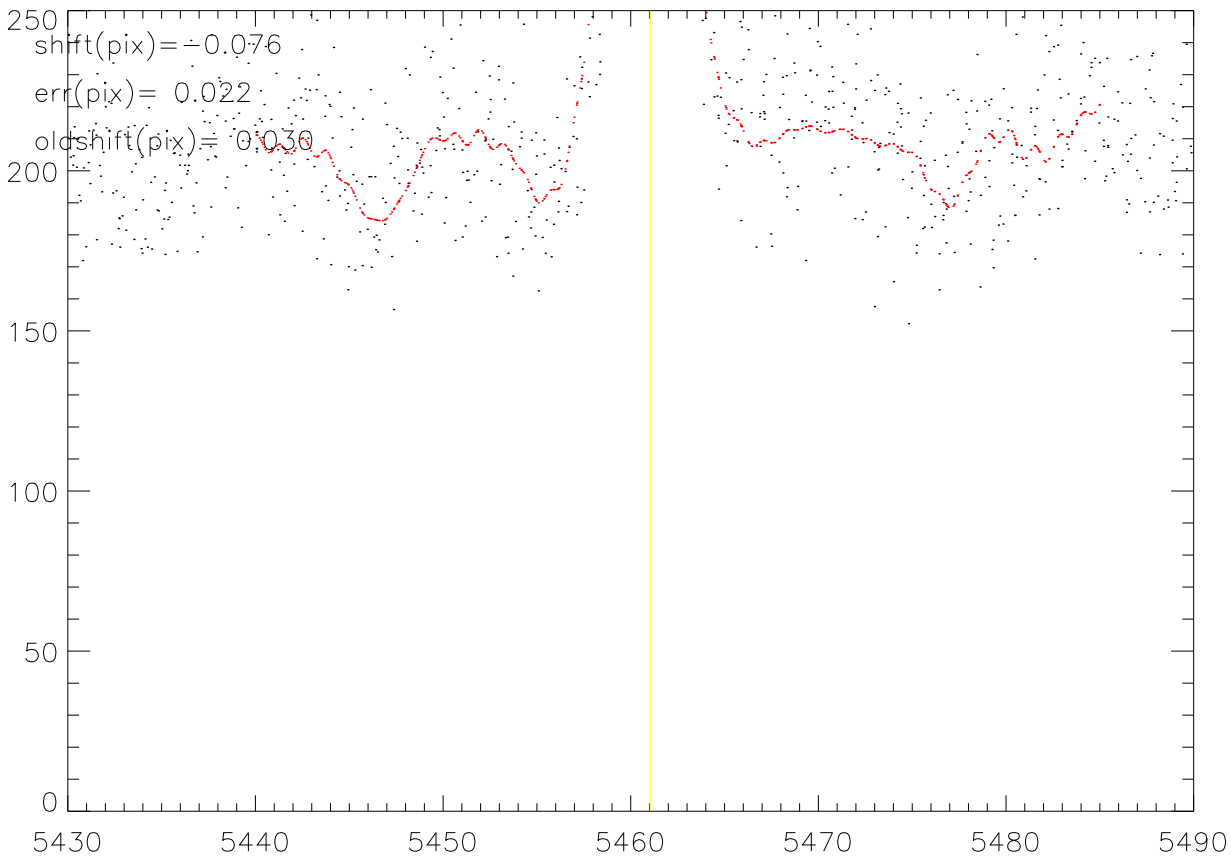

PLATE=0655 MJD=52162 Scattered Light on sdR-b1-00010853.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.169
Max value = 5.655
Tue Feb 26 00:32:34 2008

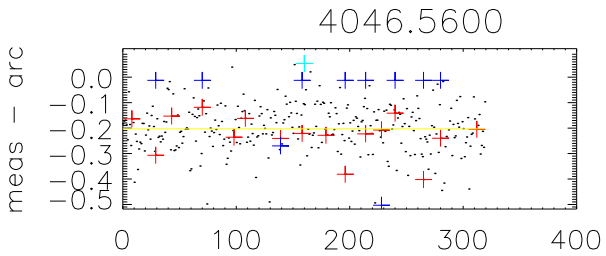

PLATE=0655 MJD=52162 Extraction chi^2 for sdR-b1-00010853.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

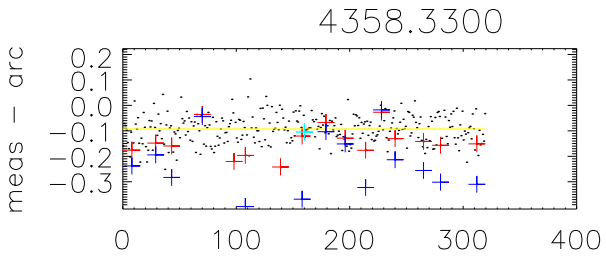

4048.6799
off: −0.57
sig: 0.117
4358.3300
off: −0.24
sig: 0.028
5460.9400
off: 0.03
sig: 0.019
5577.3390
off: −0.02
sig: 0.003
5889.9500
off: 0.08
sig: 0.010
5895.9240
off: 0.08
sig: 0.013

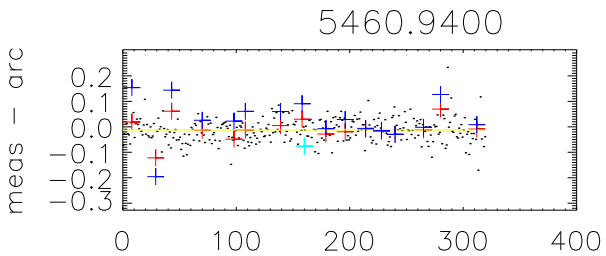

shift(pix)= 0.054
err(pix)= 0.061
oldshift(pix)=−0.571
250
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

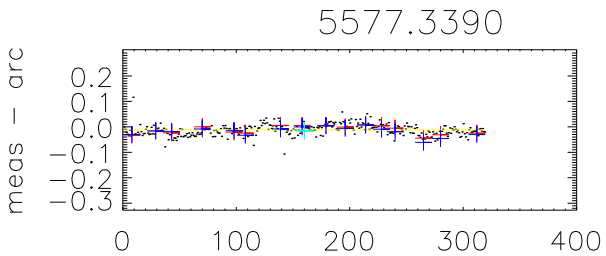

shift(pix)=−0.105
err(pix)= 0.025
oldshift(pix)=−0.243
250
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

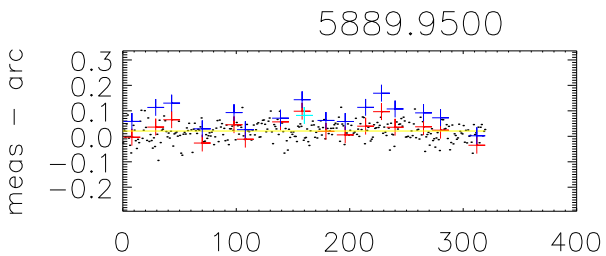

shift(pix)=-0.076
err(pix)= 0.022
oldshift(pix)= 0.030
250
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

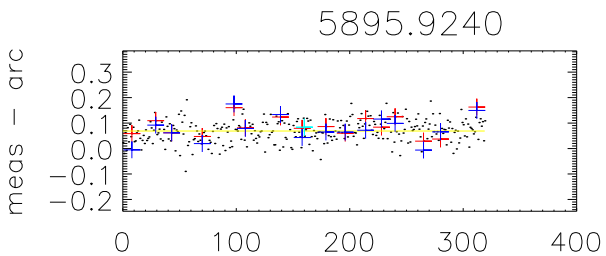

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

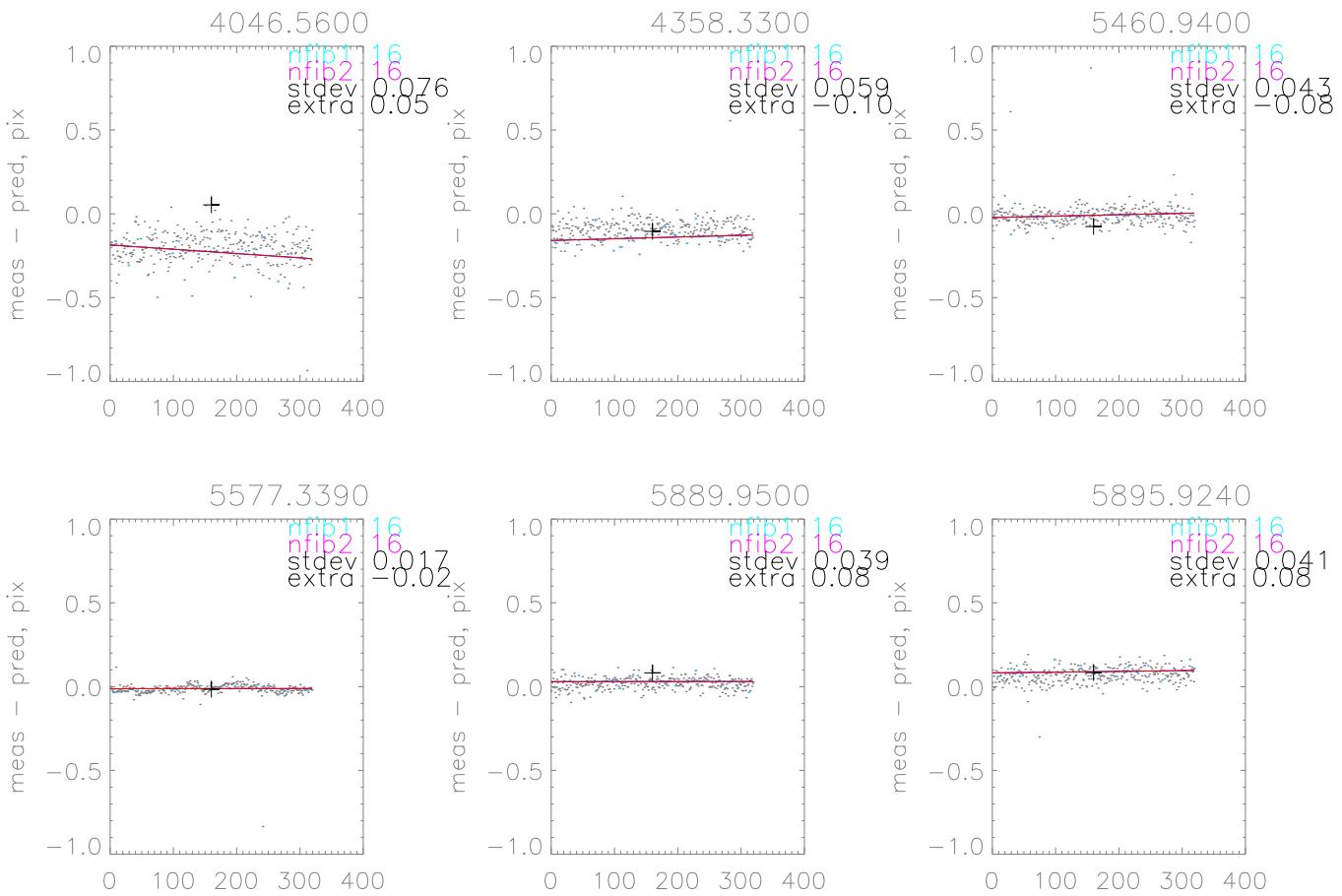

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

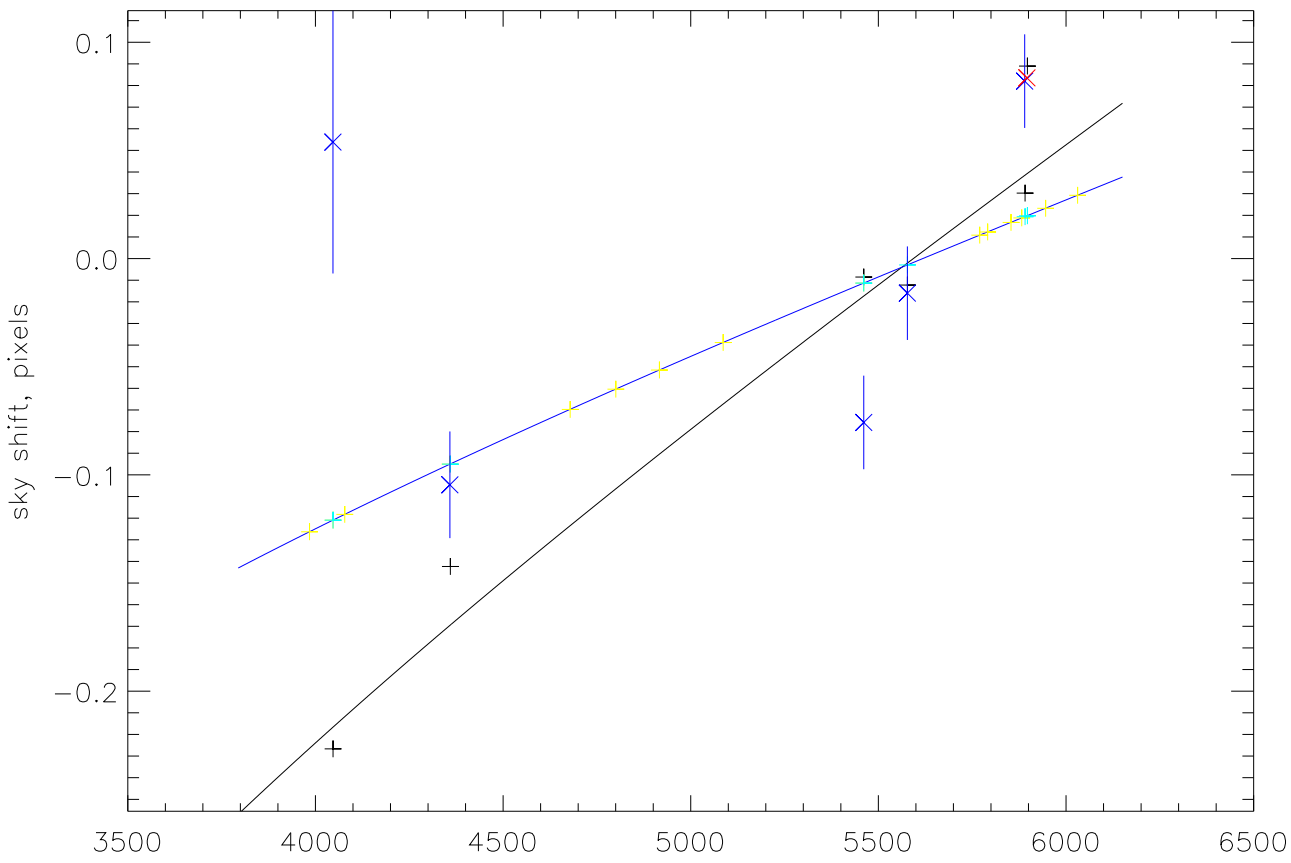

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

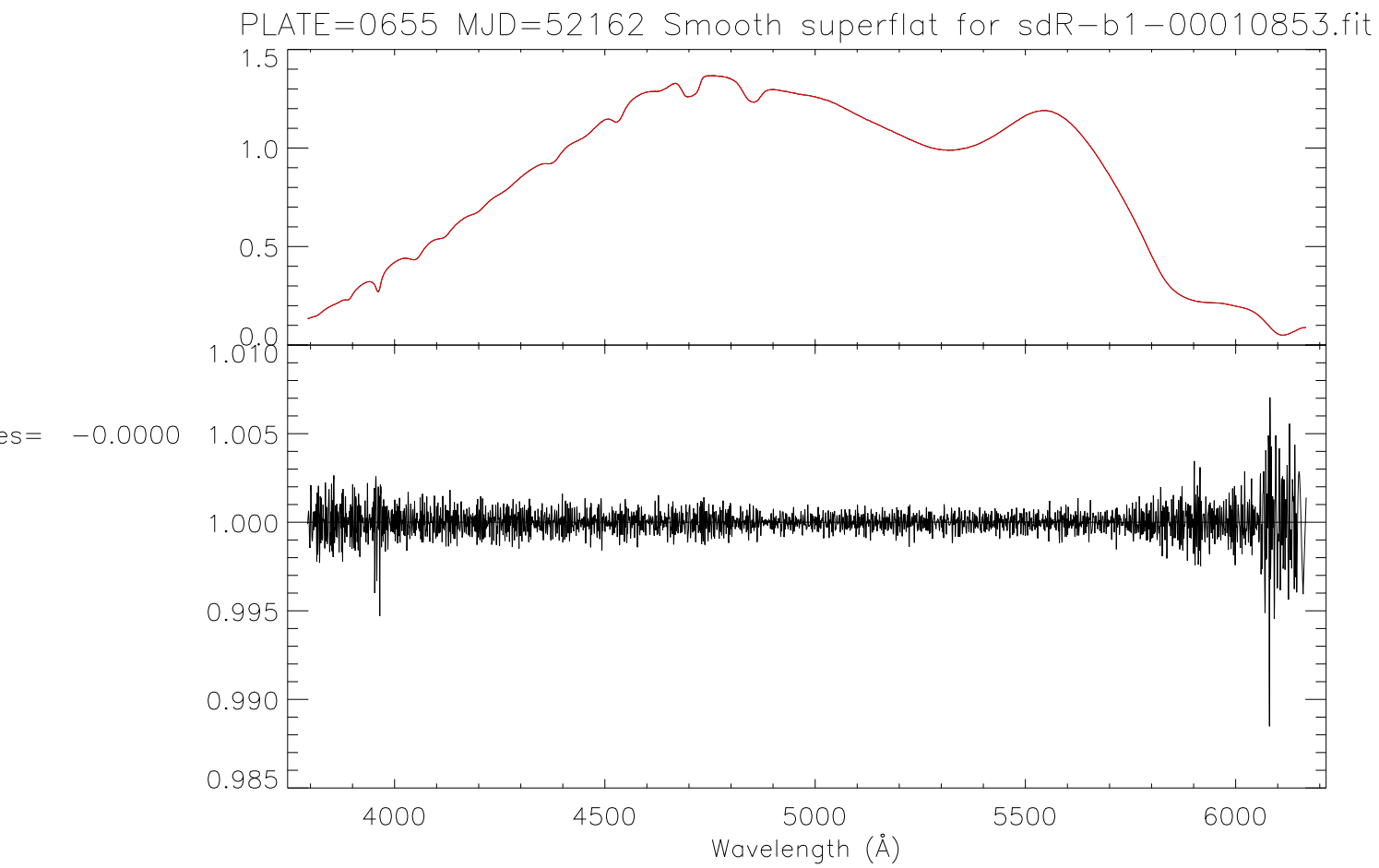

5577.3390
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

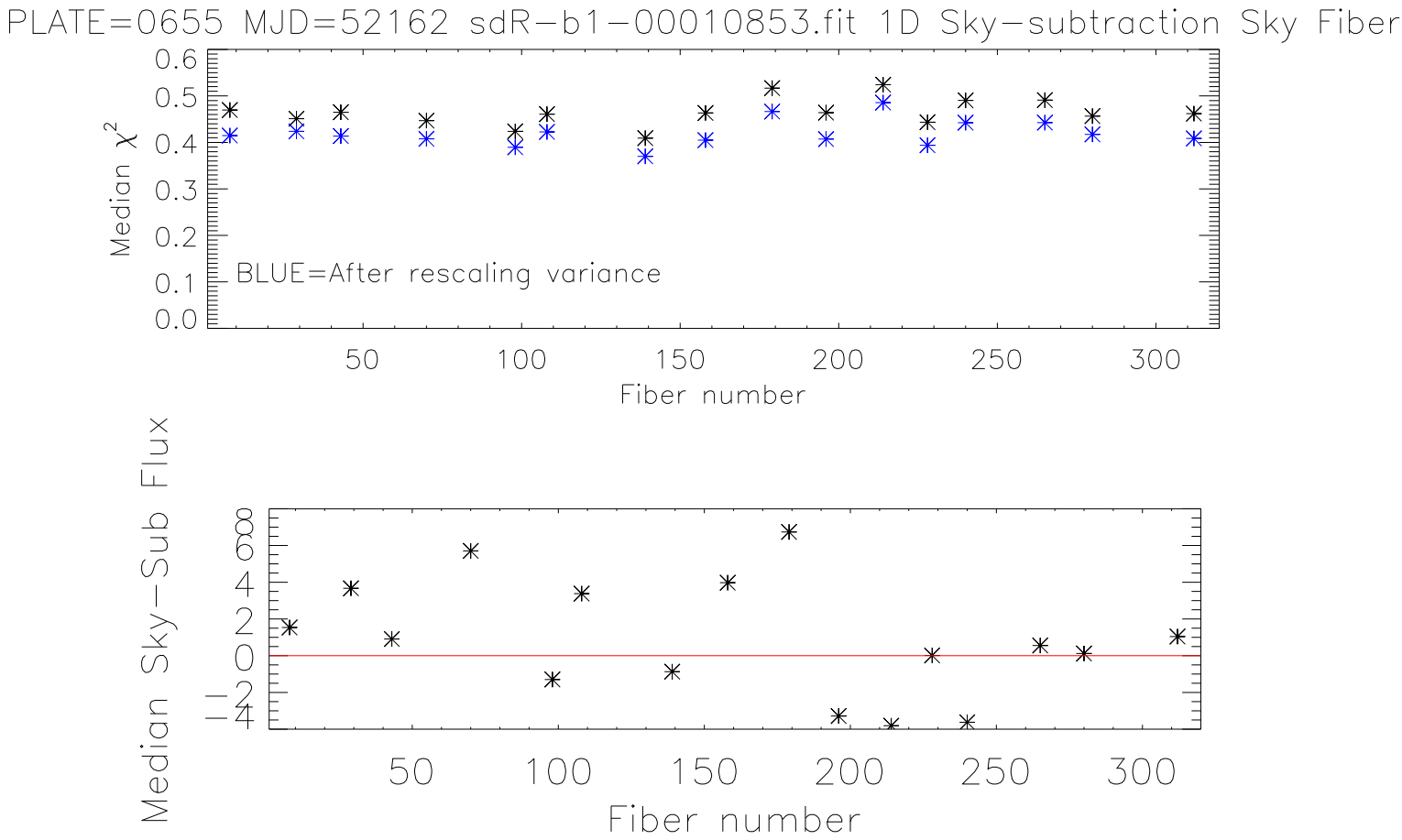

5889.9500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

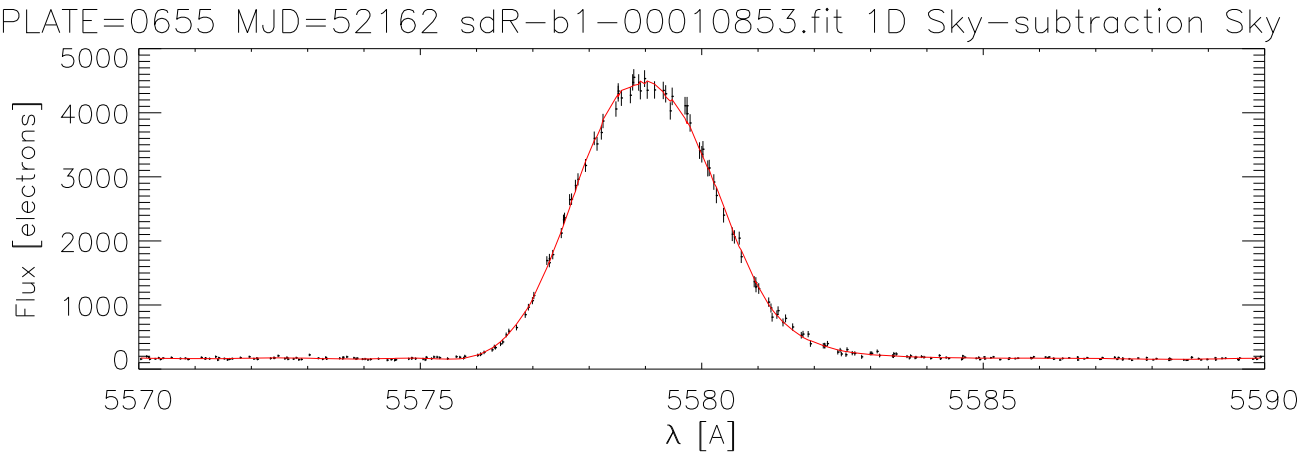

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

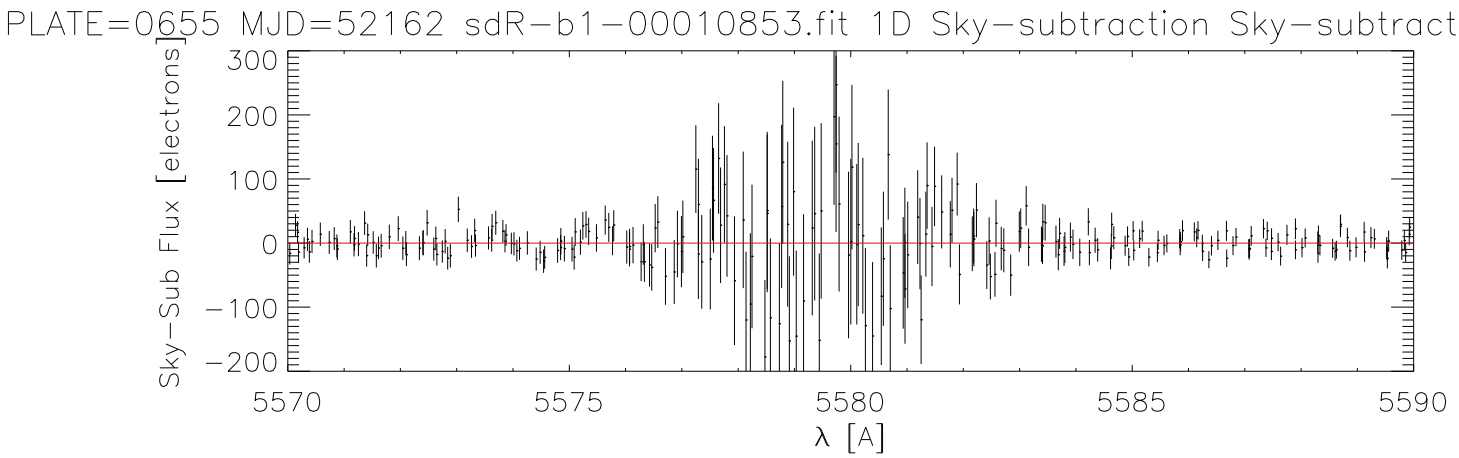

4046.5600
nfib1 16
nfib2 16
stdev 0.076
extra 0.05
4358.3300
nfib1 16
nfib2 16
stdev 0.059
extra −0.10
5460.9400
nfib1 16
nfib2 16
stdev 0.043
extra −0.08
5577.3390
nfib1 16
nfib2 16
stdev 0.017
extra −0.02
5889.9500
nfib1 16
nfib2 16
stdev 0.039
extra 0.08
5895.9240
nfib1 16
nfib2 16
stdev 0.041
extra 0.08
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

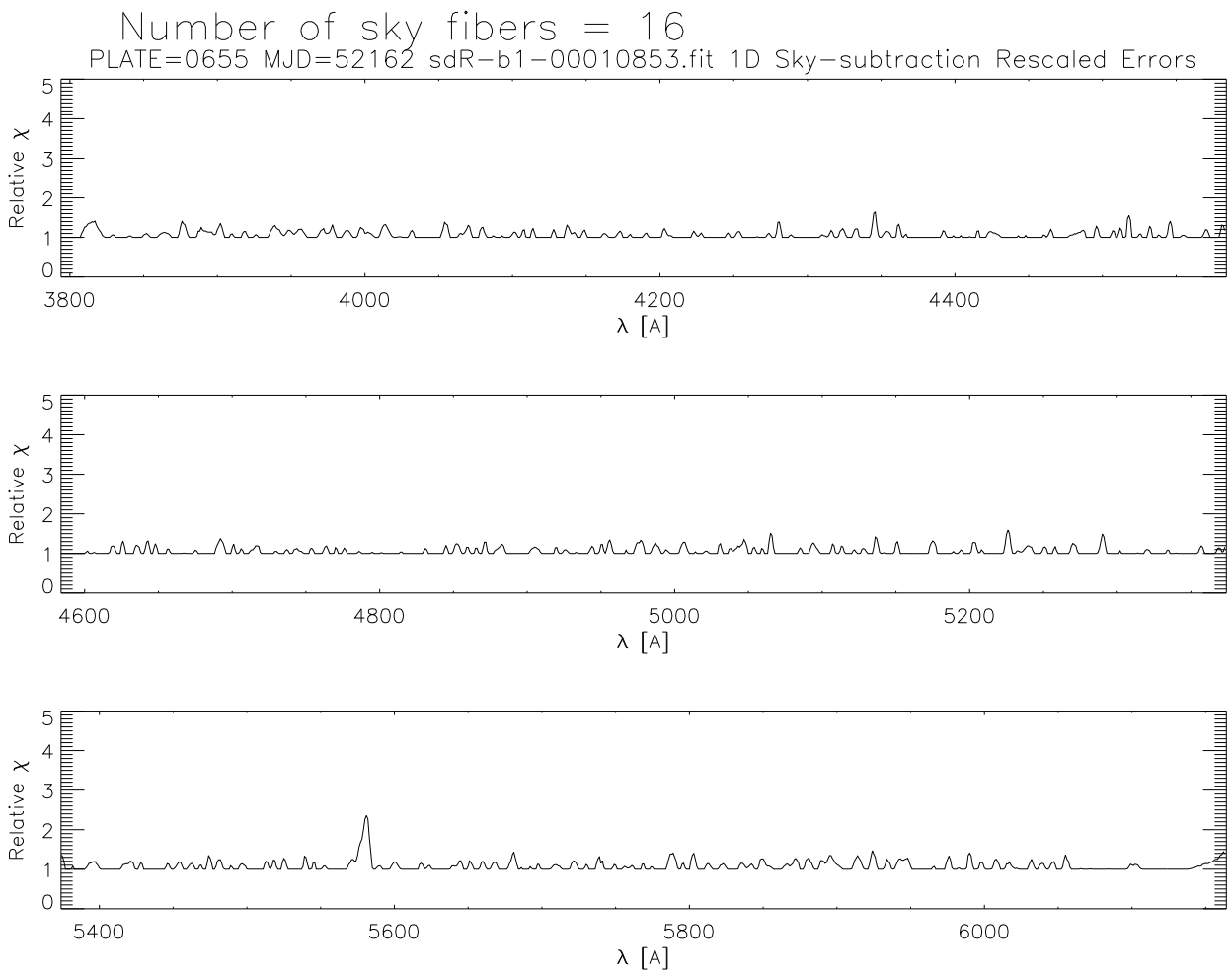

0.1
0.0
−0.1
−0.2
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

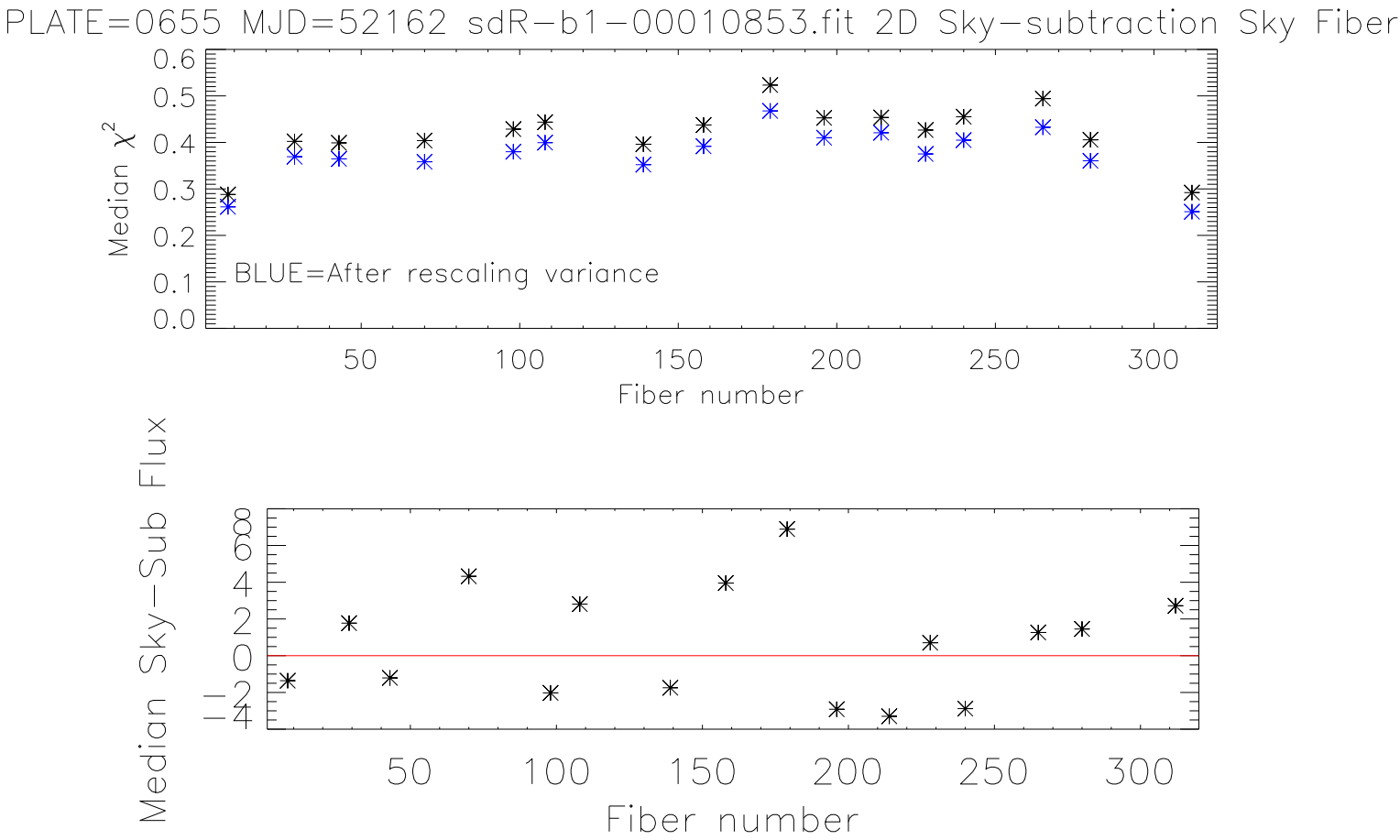

PLATE=0655 MJD=52162 Smooth superflat for sdR−b1−00010853.fit
1.5
1.0
0.5
0.0
es= −0.0000
1.010
1.005
1.000
0.995
0.990
0.985
4000
4500
5000
5500
6000
Wavelength (Å)

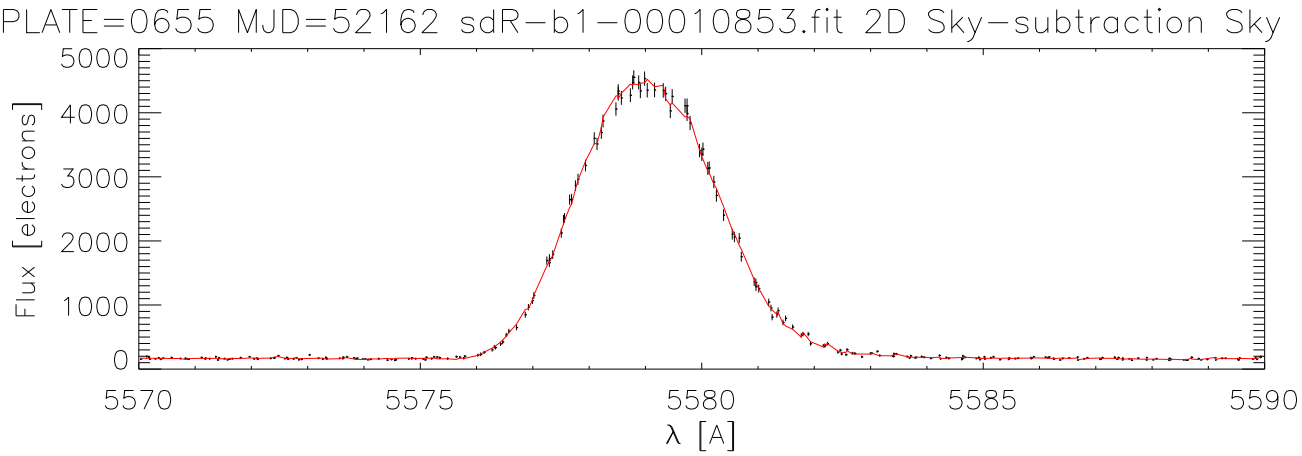

PLATE=0655 MJD=52162 sdR-b1-00010853.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

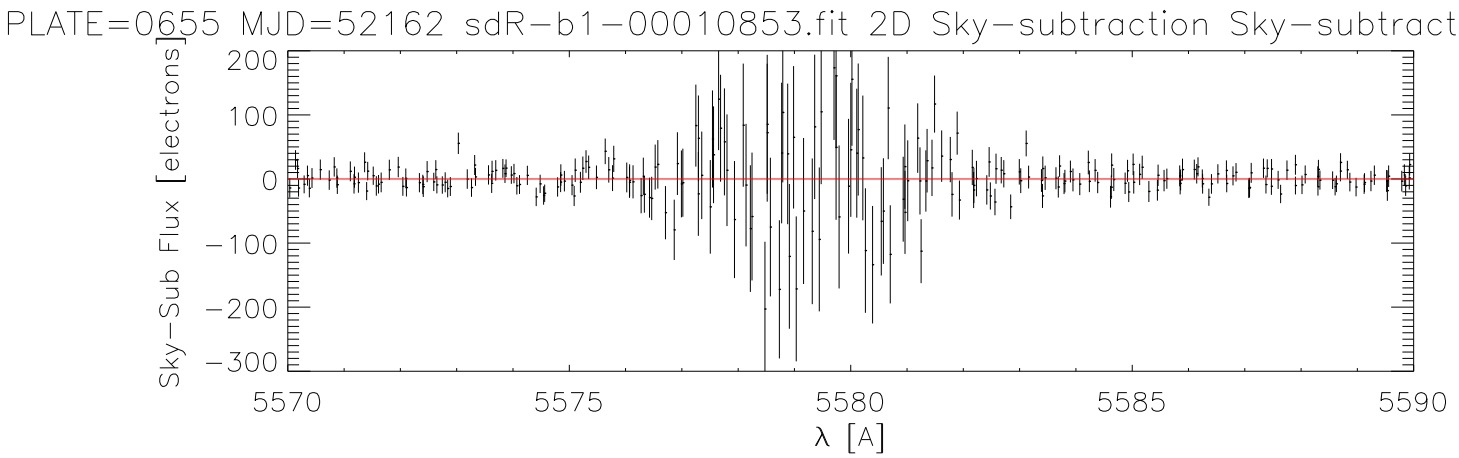

PLATE=0655 MJD=52162 sdR-b1-00010853.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

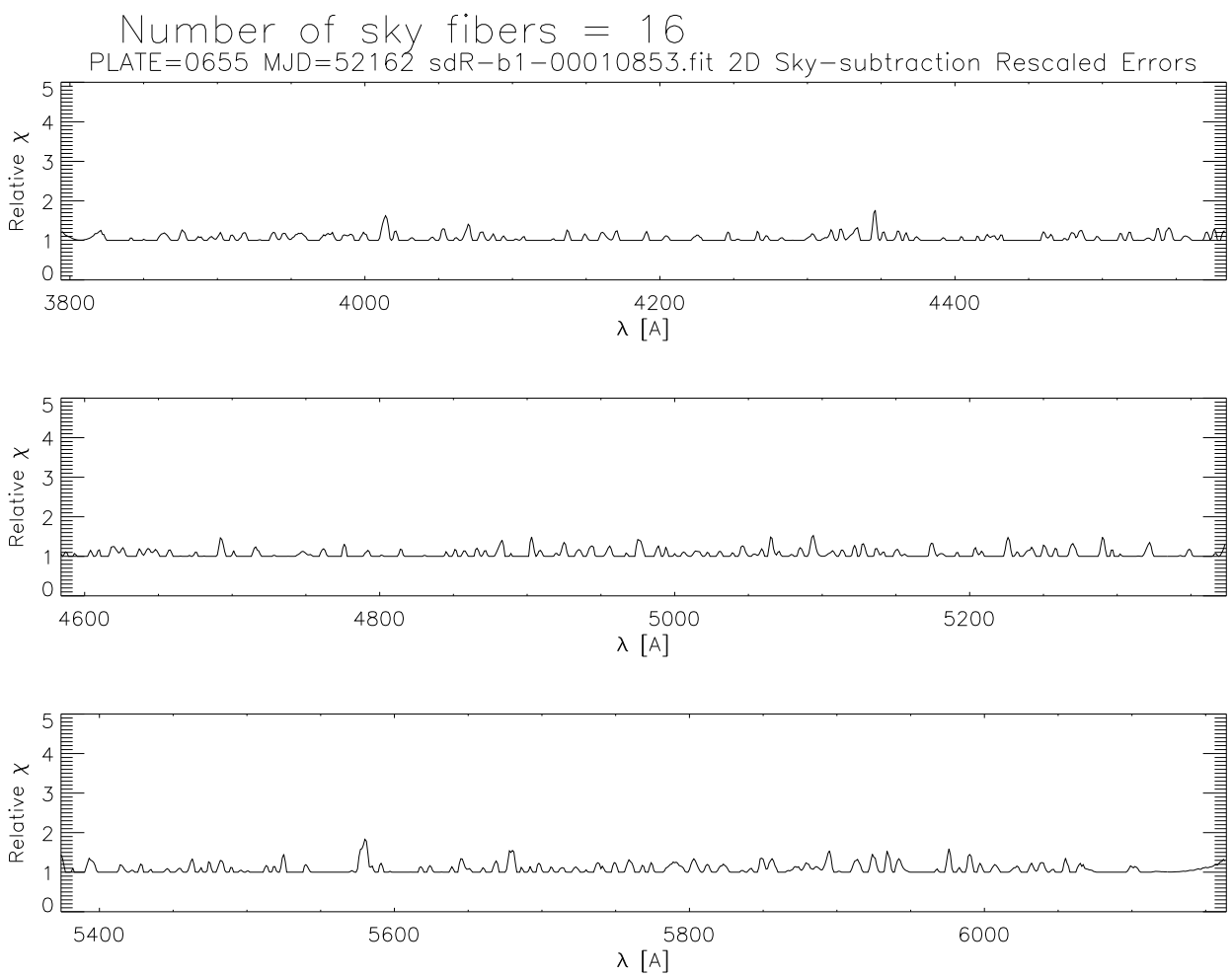

PLATE=0655 MJD=52162 sdR-b1-00010853.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

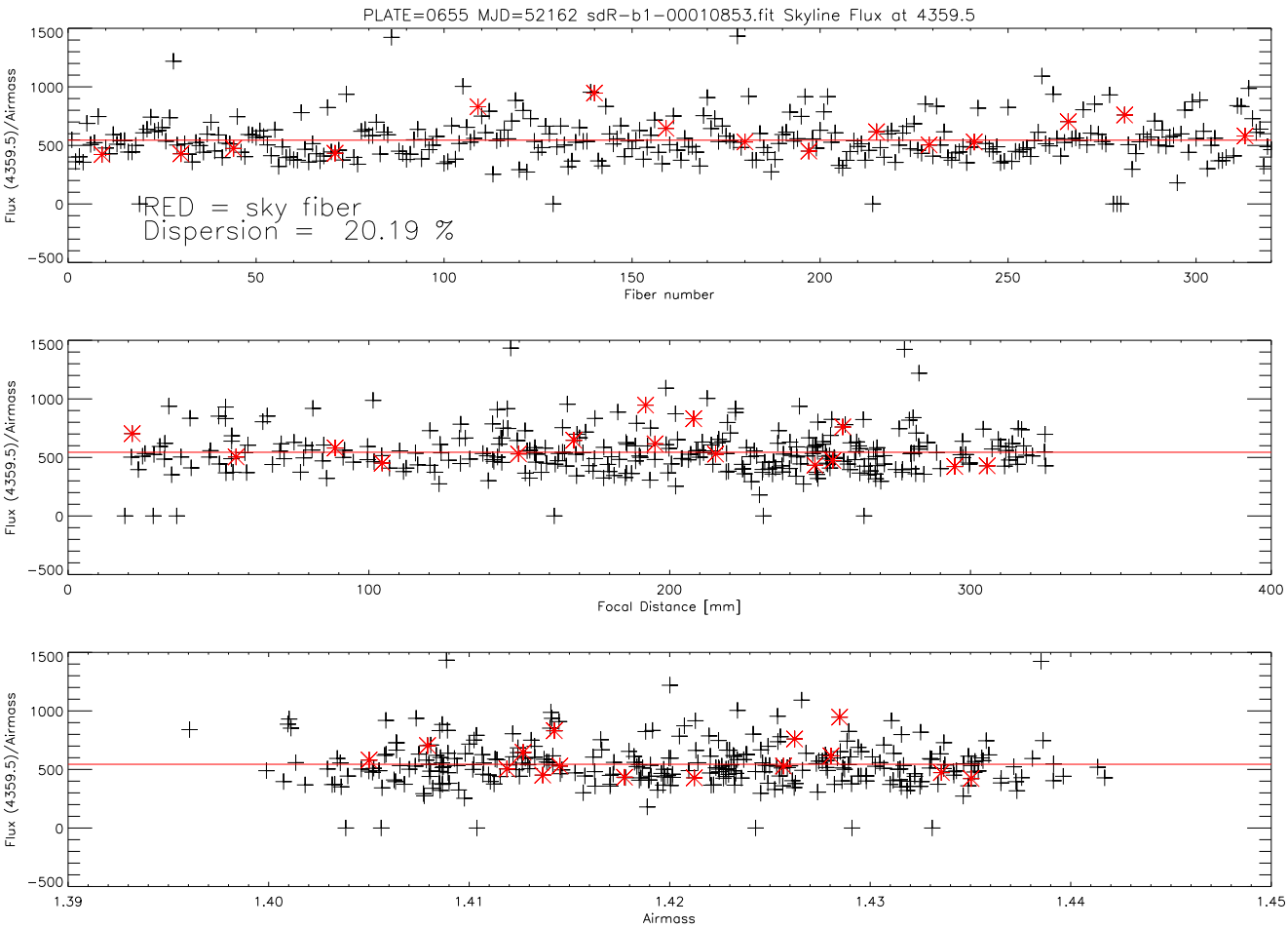

Number of sky fibers = 16
PLATE=0655 MJD=52162 sdR-b1-00010853.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

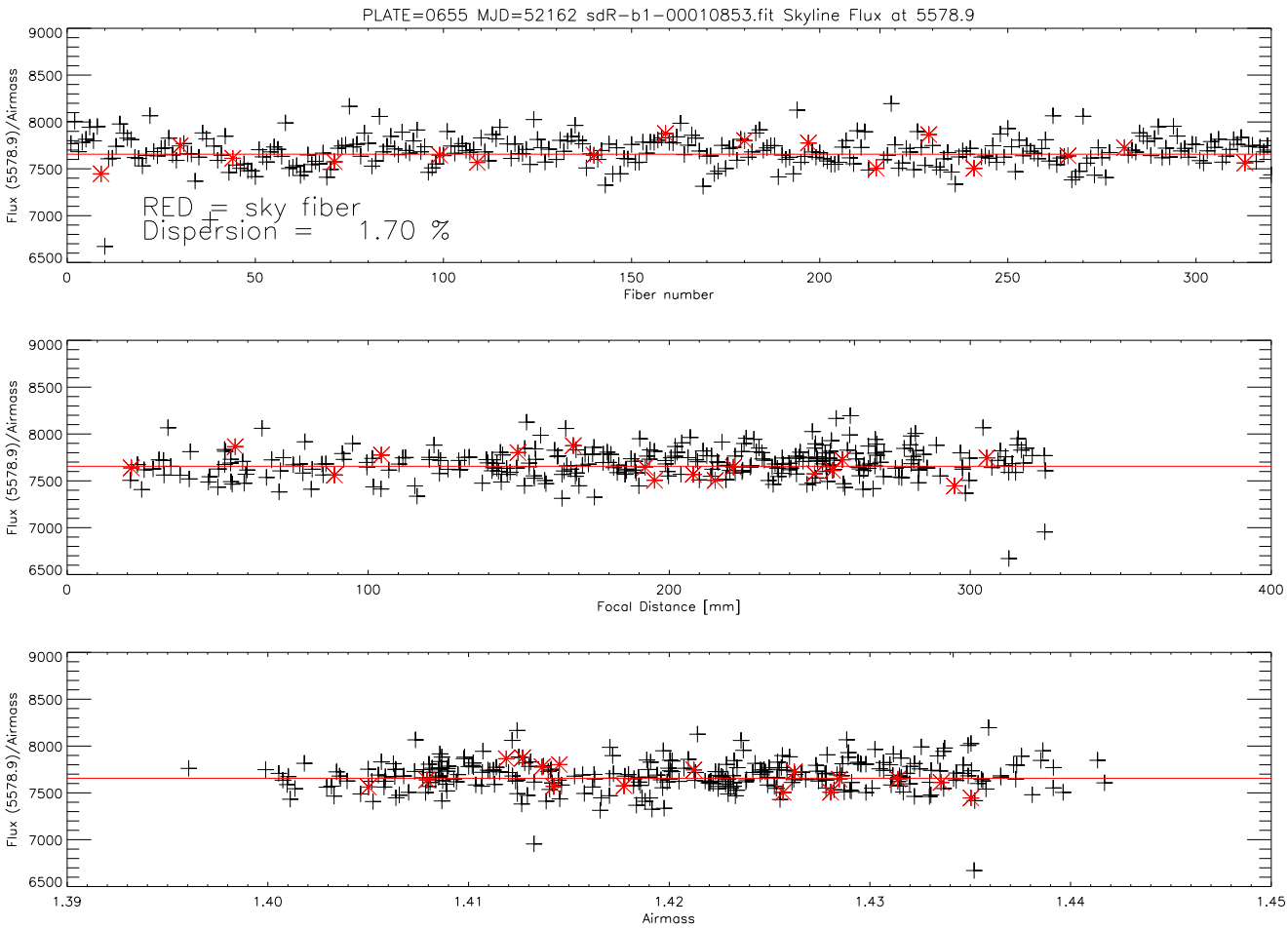

PLATE=0655 MJD=52162 sdR-b1-00010853.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

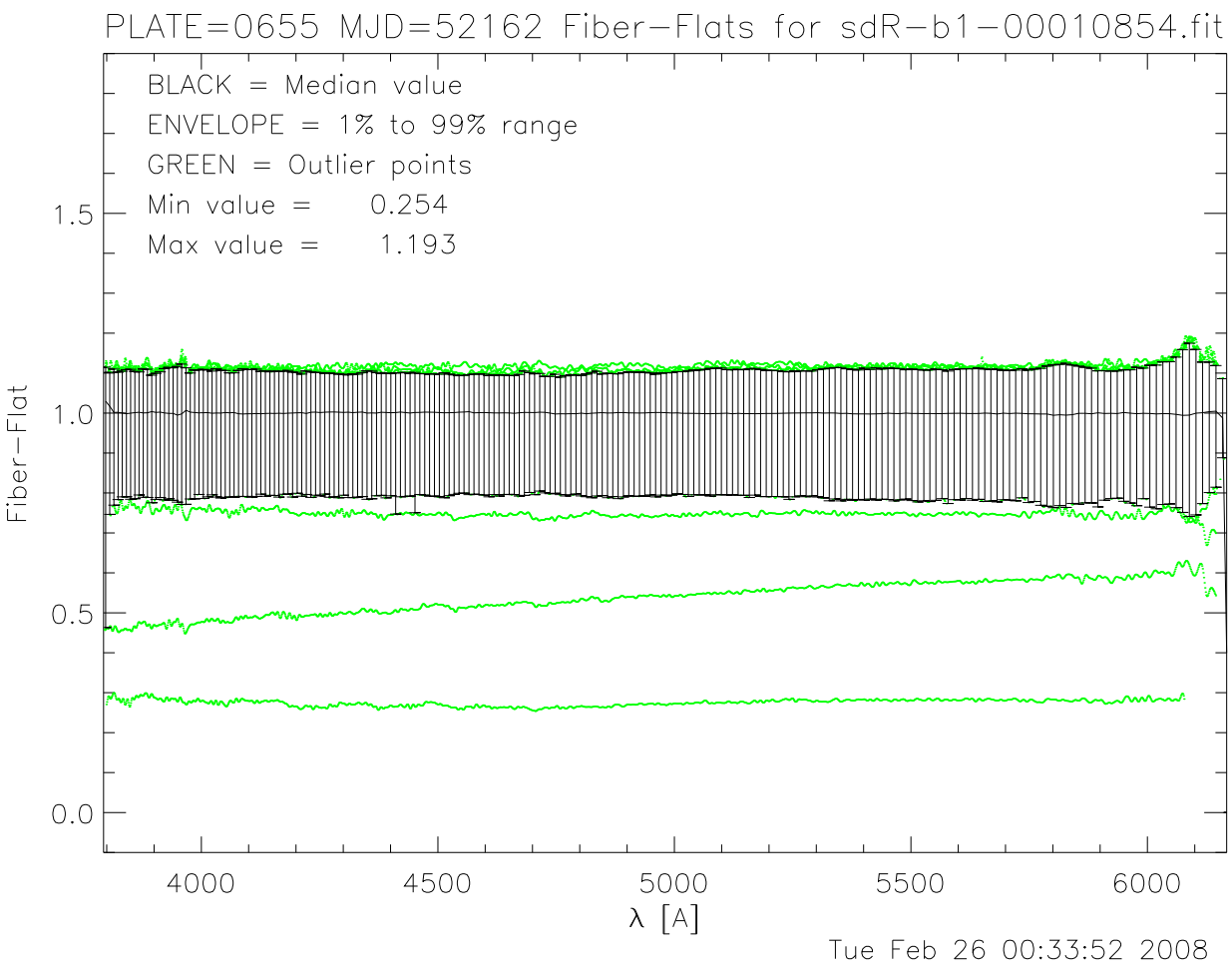

PLATE=0655 MJD=52162 sdR-b1-00010853.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

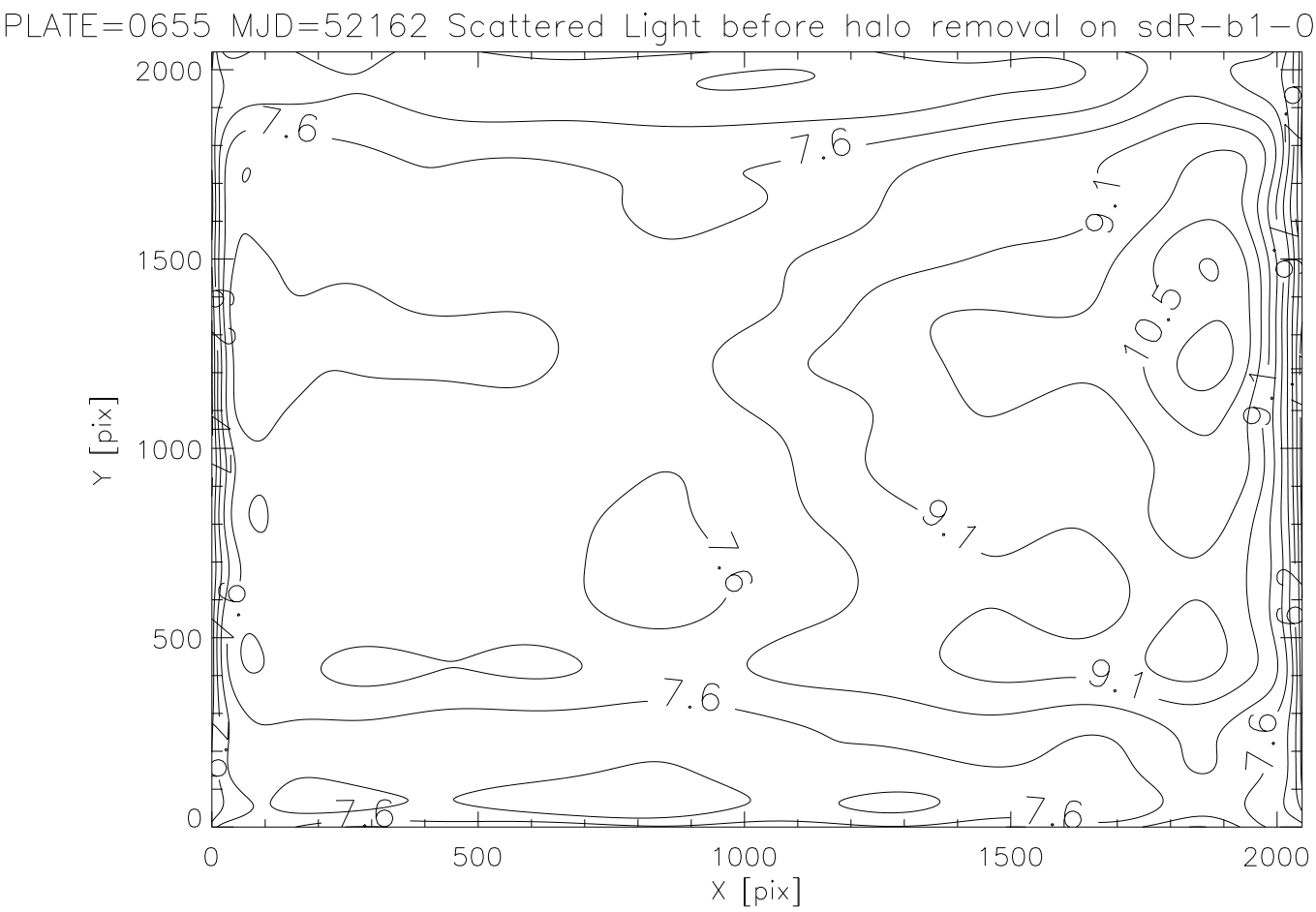

PLATE=0655 MJD=52162 sdR-b1-00010853.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

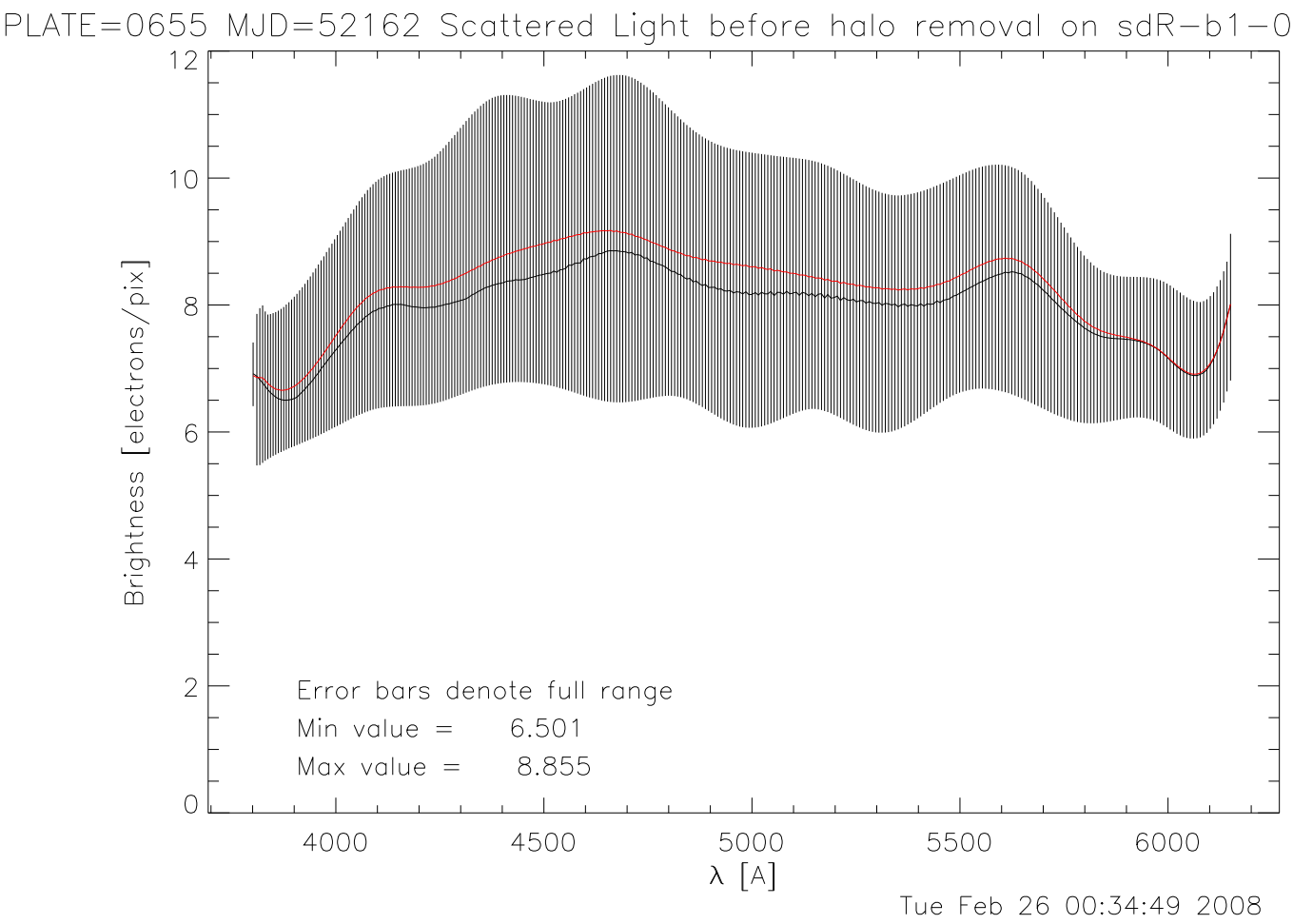

Number of sky fibers = 16
PLATE=0655 MJD=52162 sdR-b1-00010853.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

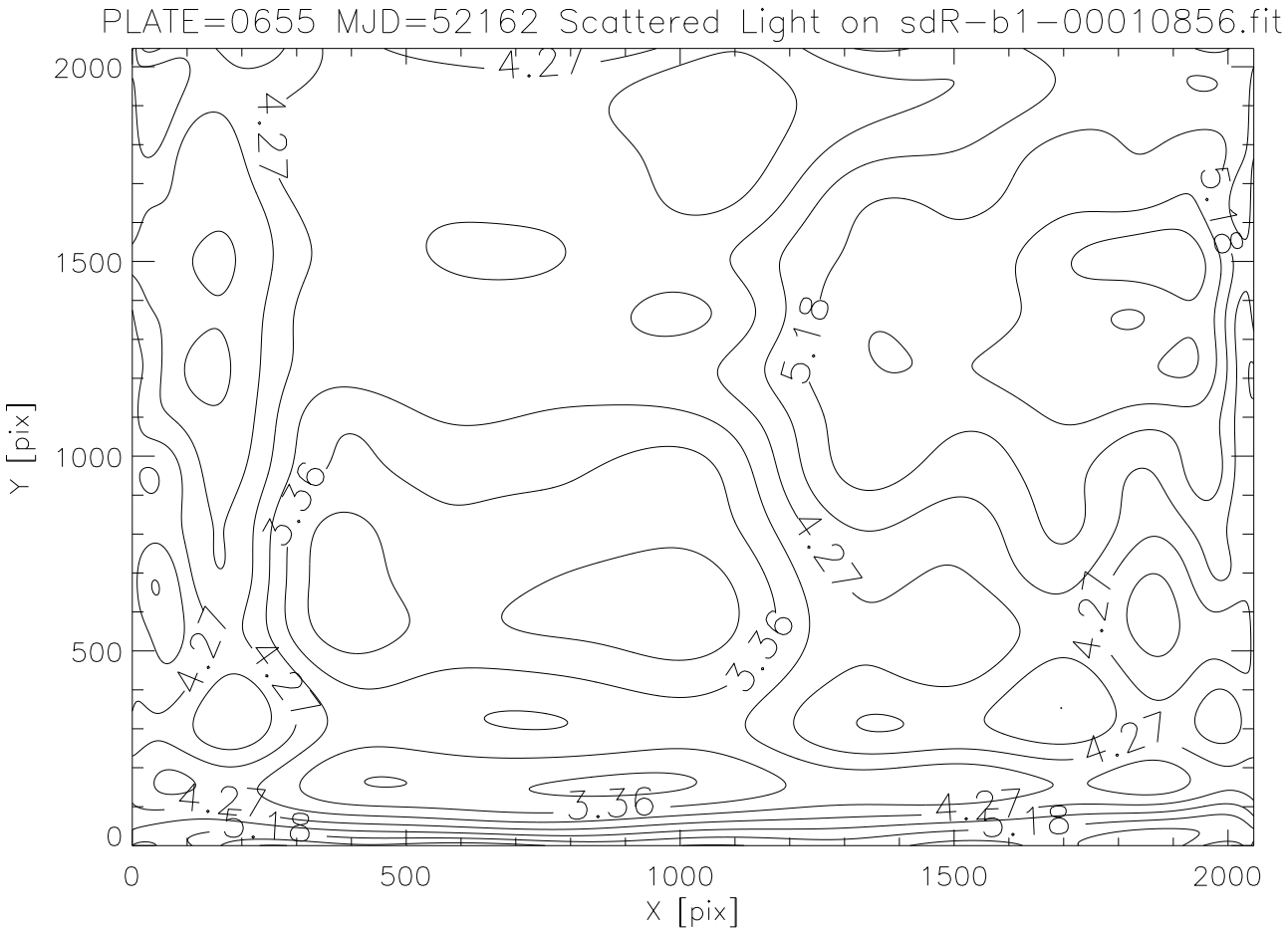

PLATE=0655 MJD=52162 sdR-b1-00010853.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 20.19 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

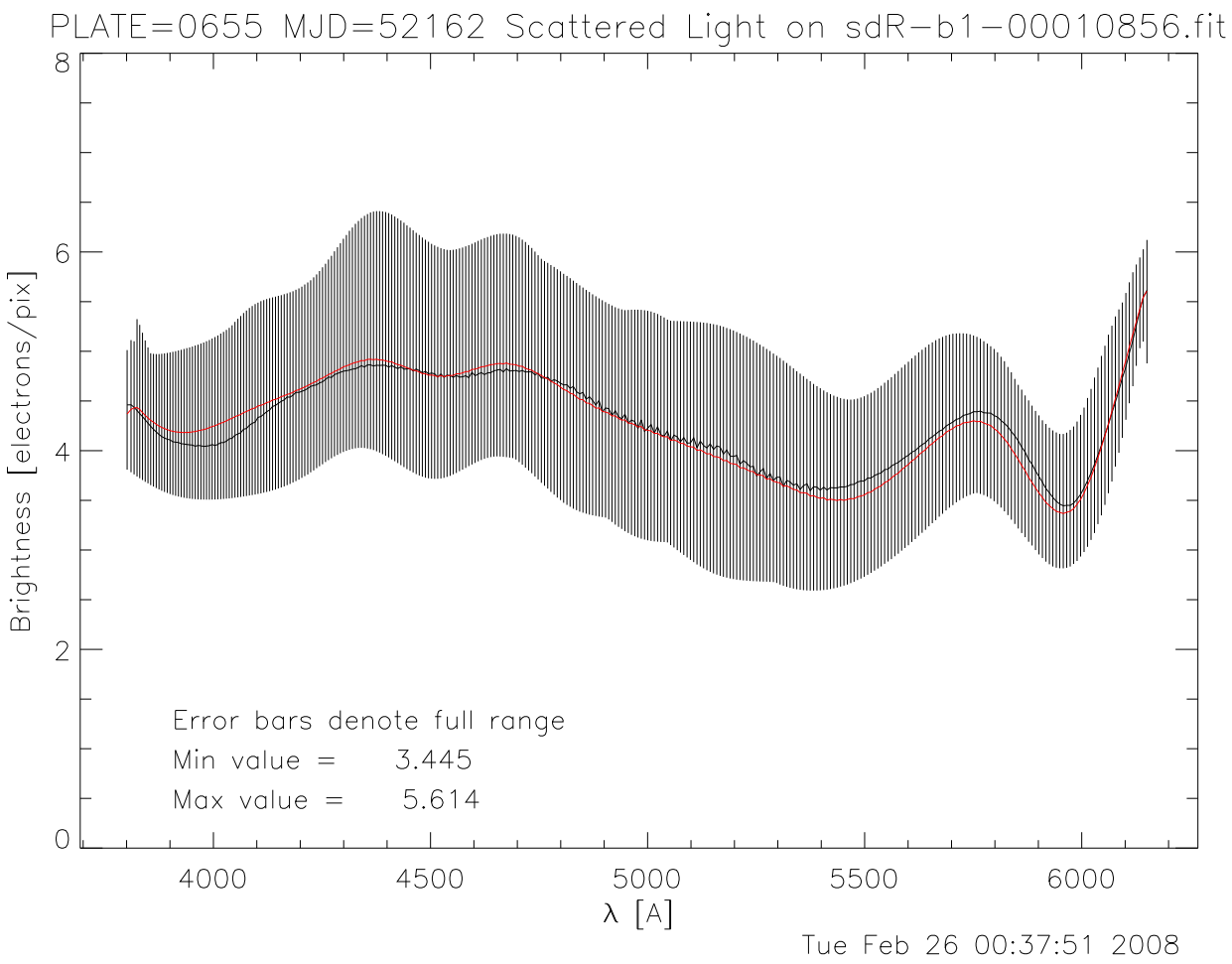

PLATE=0655 MJD=52162 sdR-b1-00010853.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.70 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

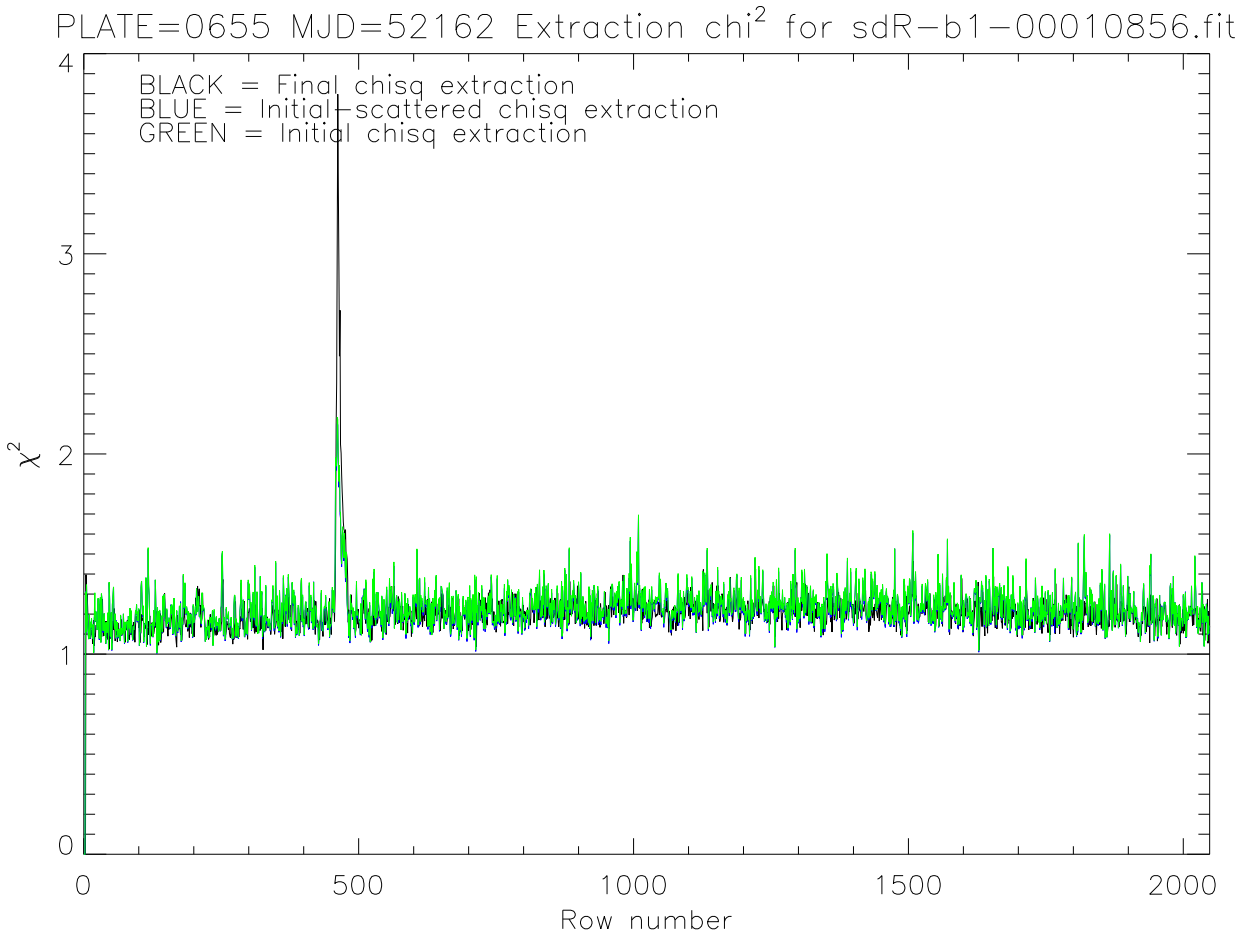

PLATE=0655 MJD=52162 Fiber-Flats for sdR-b1-00010854.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.254
Max value = 1.193
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 00:33:52 2008

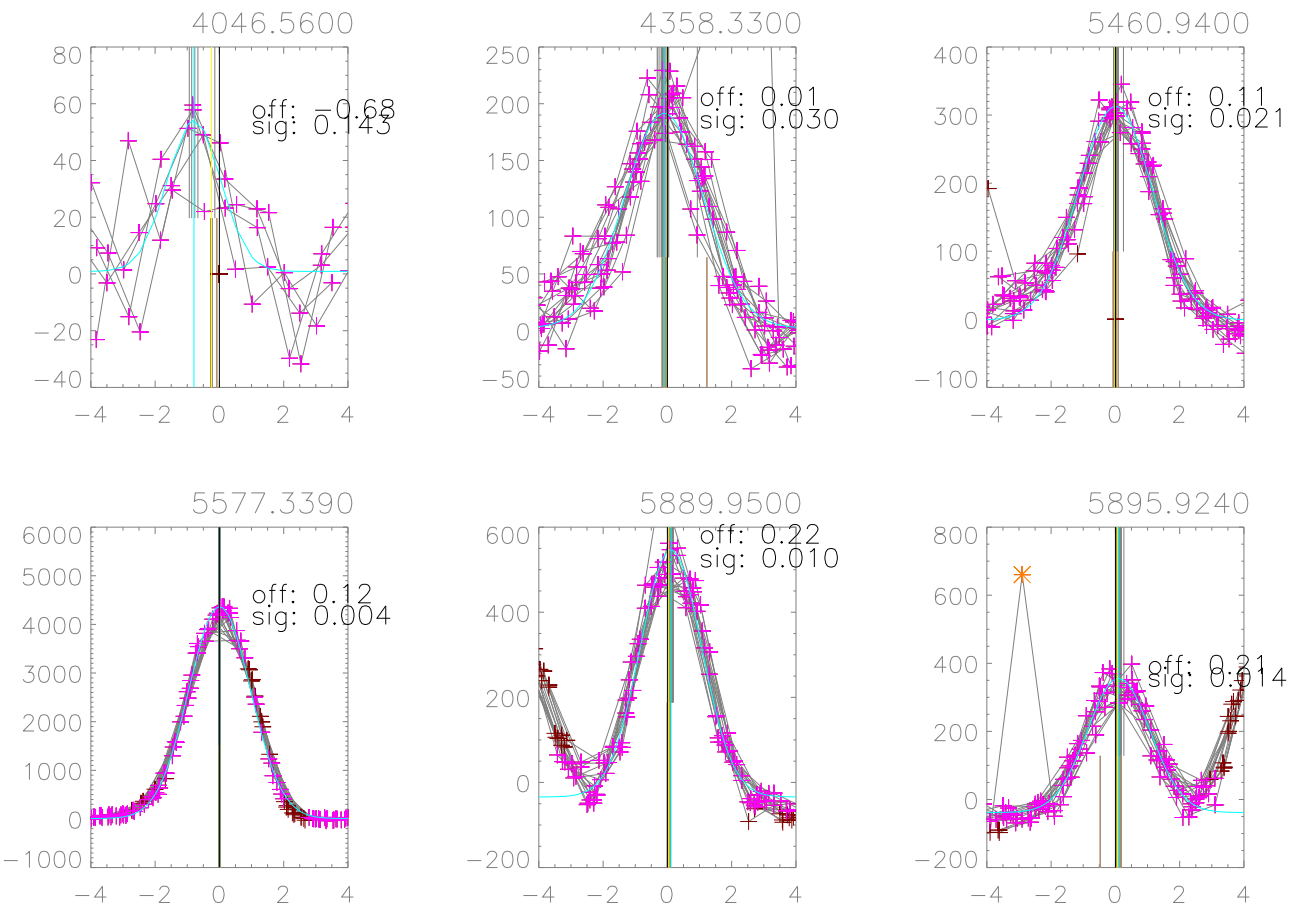

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR−b1−00010856.f
Y [pix]
X [pix]
0
500
1000
1500
2000
7.6
9.1
10.5

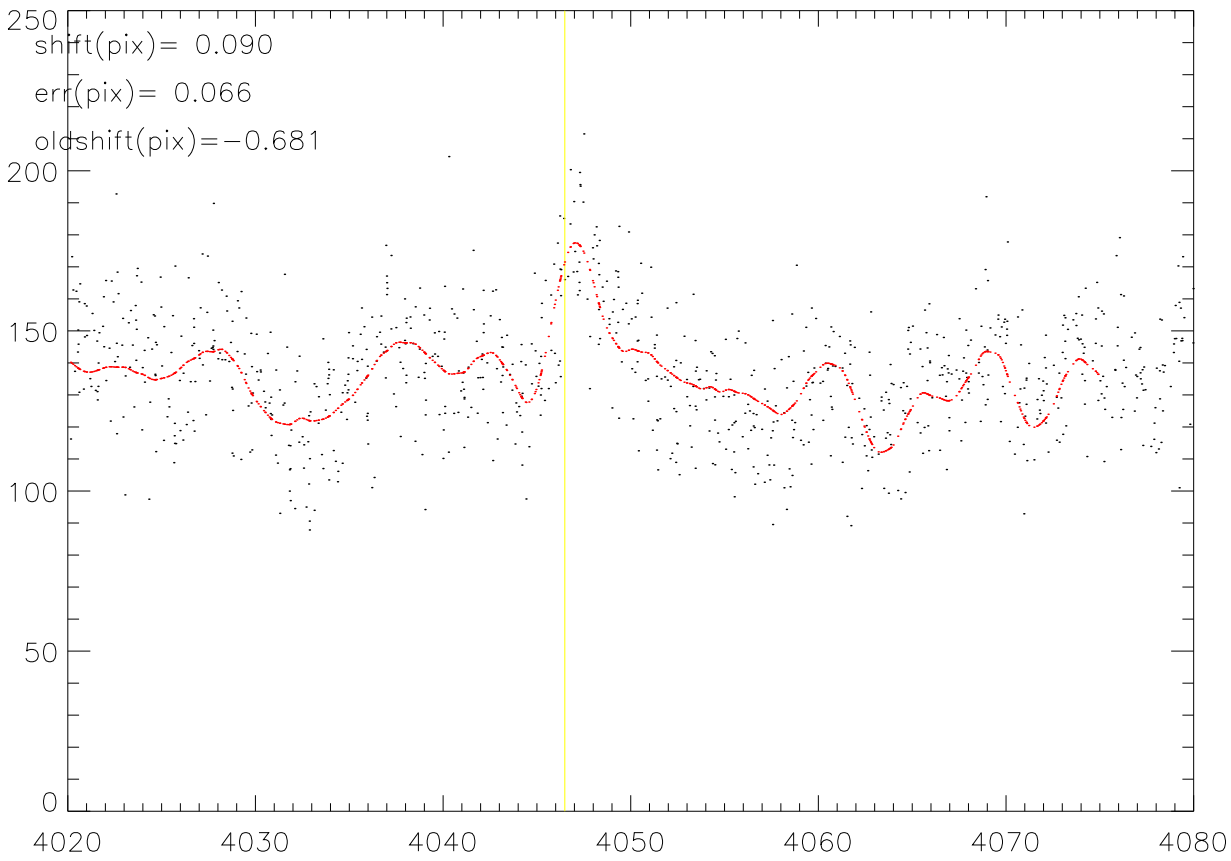

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-b1-00010856.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.501
Max value = 8.855
Tue Feb 26 00:34:49 2008

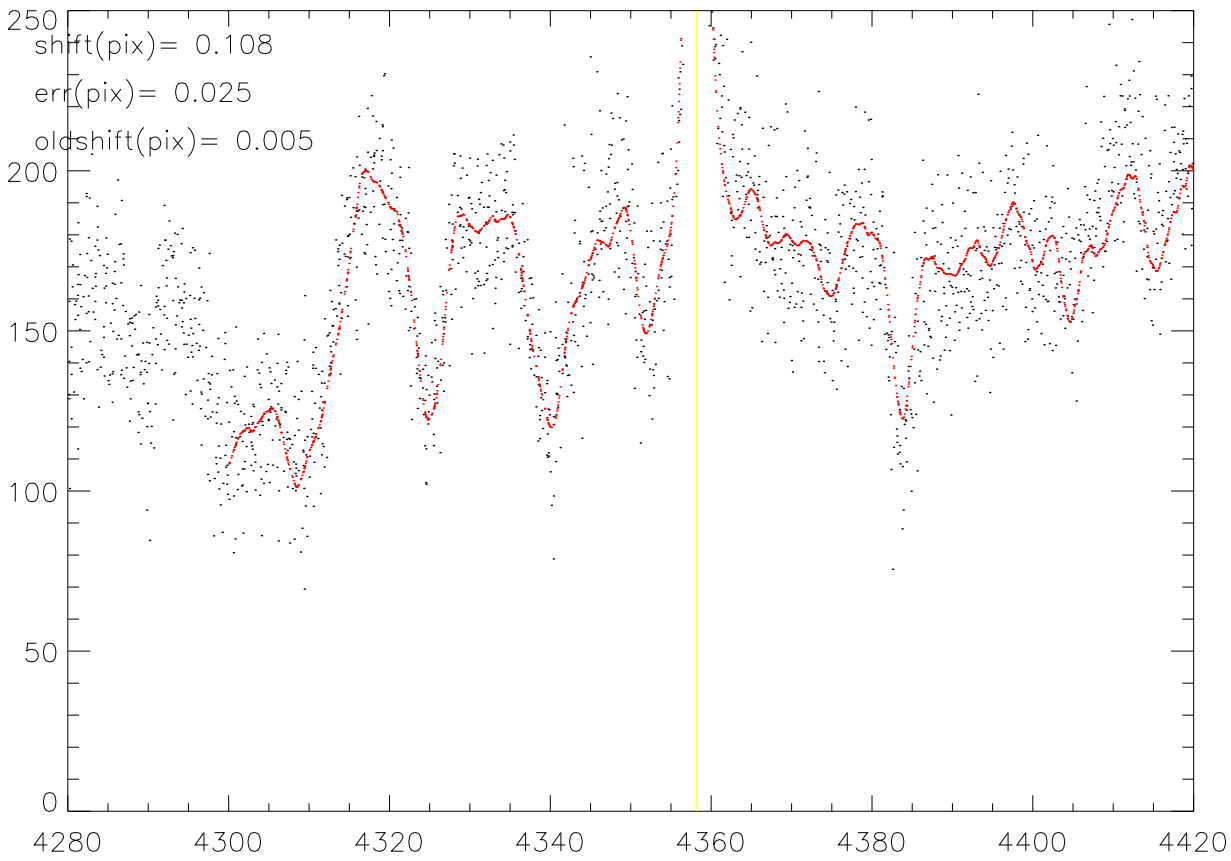

PLATE=0655 MJD=52162 Scattered Light on sdR-b1-00010856.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
4.27
3.36
5.18

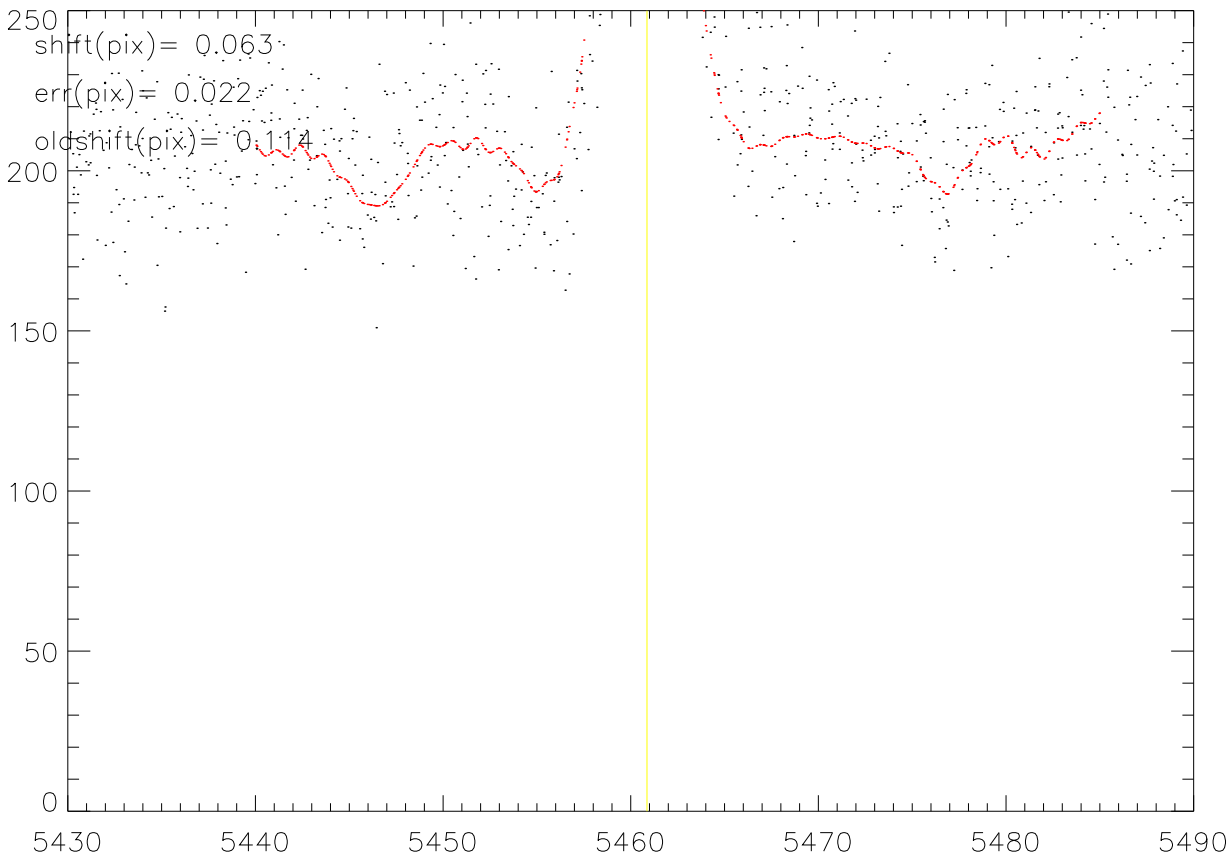

PLATE=0655 MJD=52162 Scattered Light on sdR-b1-00010856.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.445
Max value = 5.614
Tue Feb 26 00:37:51 2008

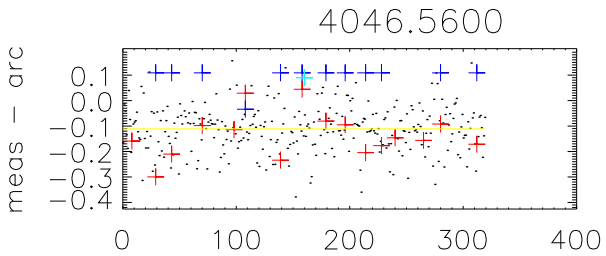

PLATE=0655 MJD=52162 Extraction chi^2 for sdR-b1-00010856.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

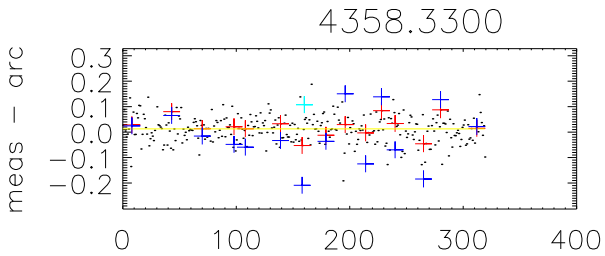

4046.5600
off: −0.68
sig: 0.143
4358.3300
off: 0.01
sig: 0.030
5460.9400
off: 0.11
sig: 0.021
5577.3390
off: 0.12
sig: 0.004
5889.9500
off: 0.22
sig: 0.010
5895.9240
off: 0.21
sig: 0.014

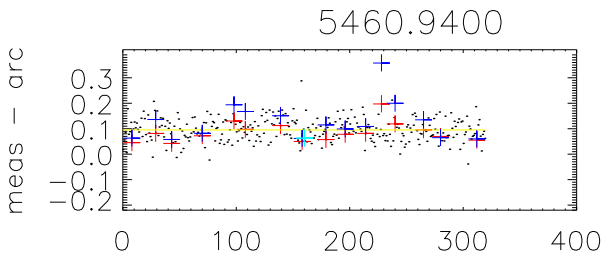

shift(pix)= 0.090
err(pix)= 0.066
oldshift(pix)=−0.681
250
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

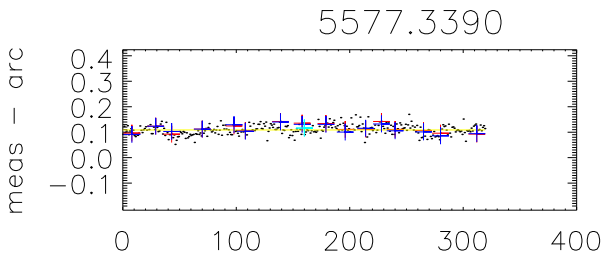

shift(pix)= 0.108
err(pix)= 0.025
oldshift(pix)= 0.005
250
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

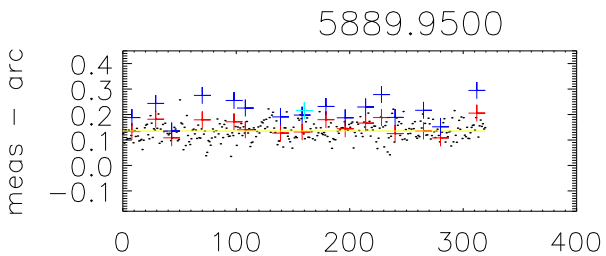

shift(pix)= 0.063
err(pix)= 0.022
oldshift(pix)= 0.114
250
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

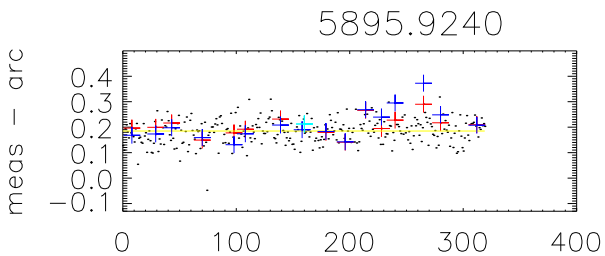

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

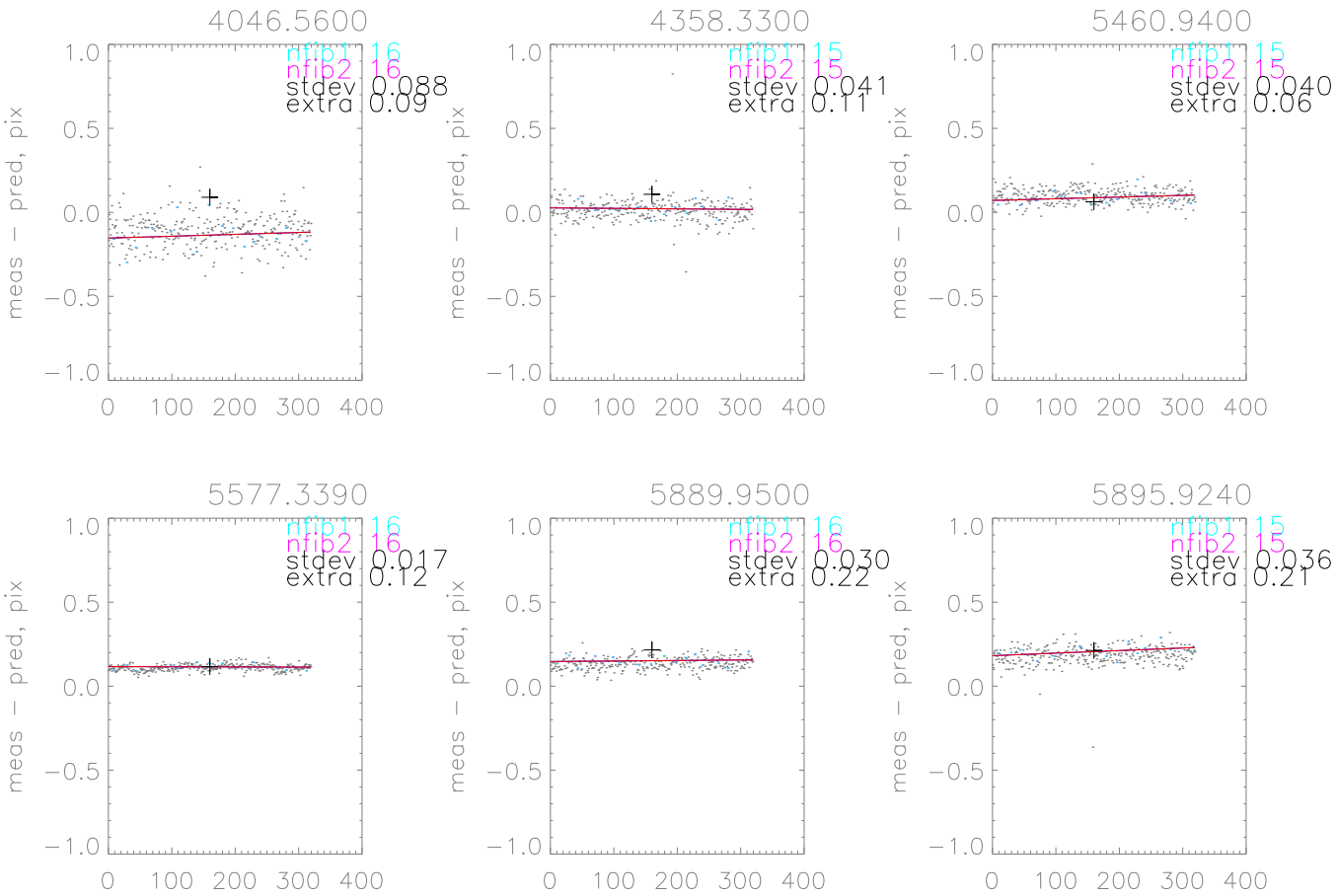

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

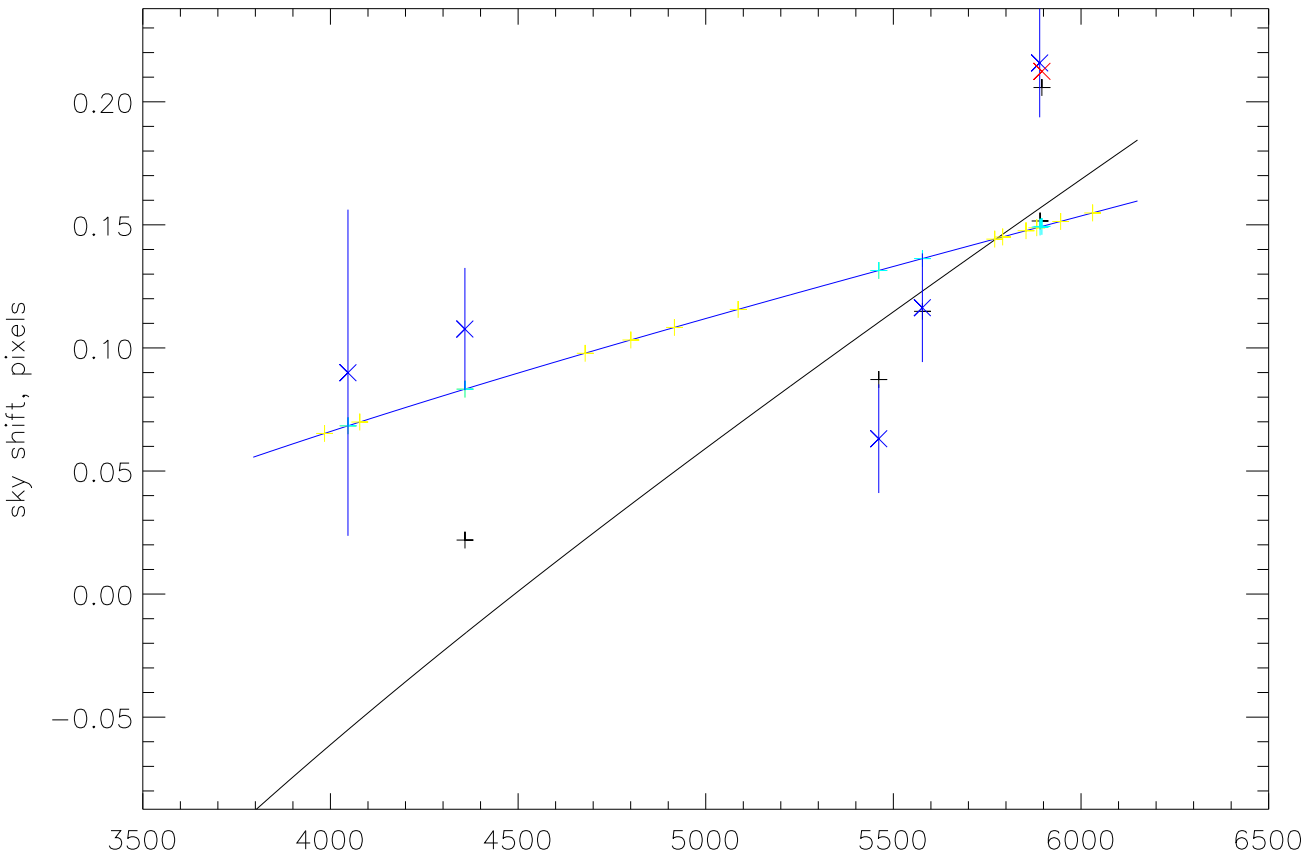

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

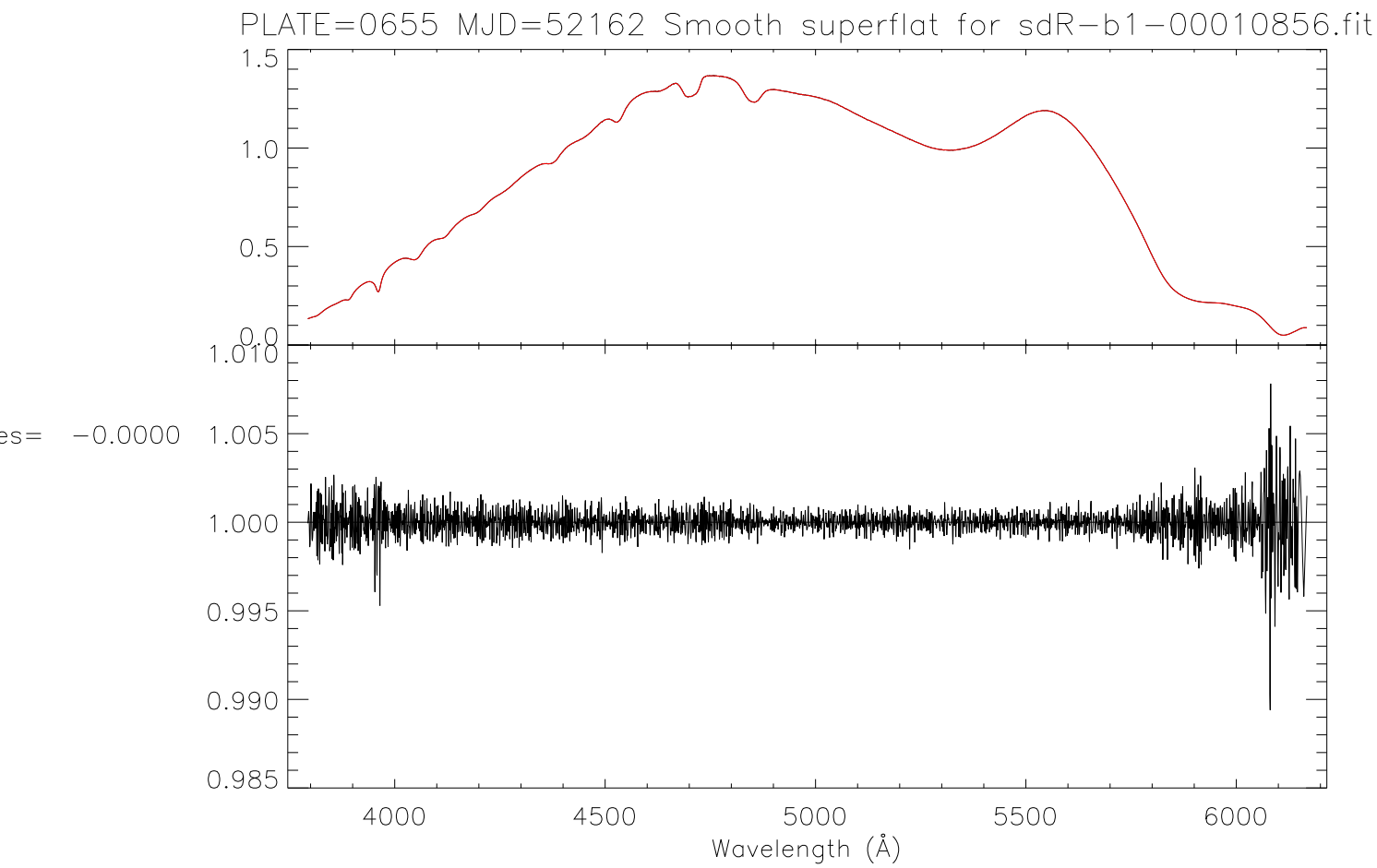

5577.3390
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

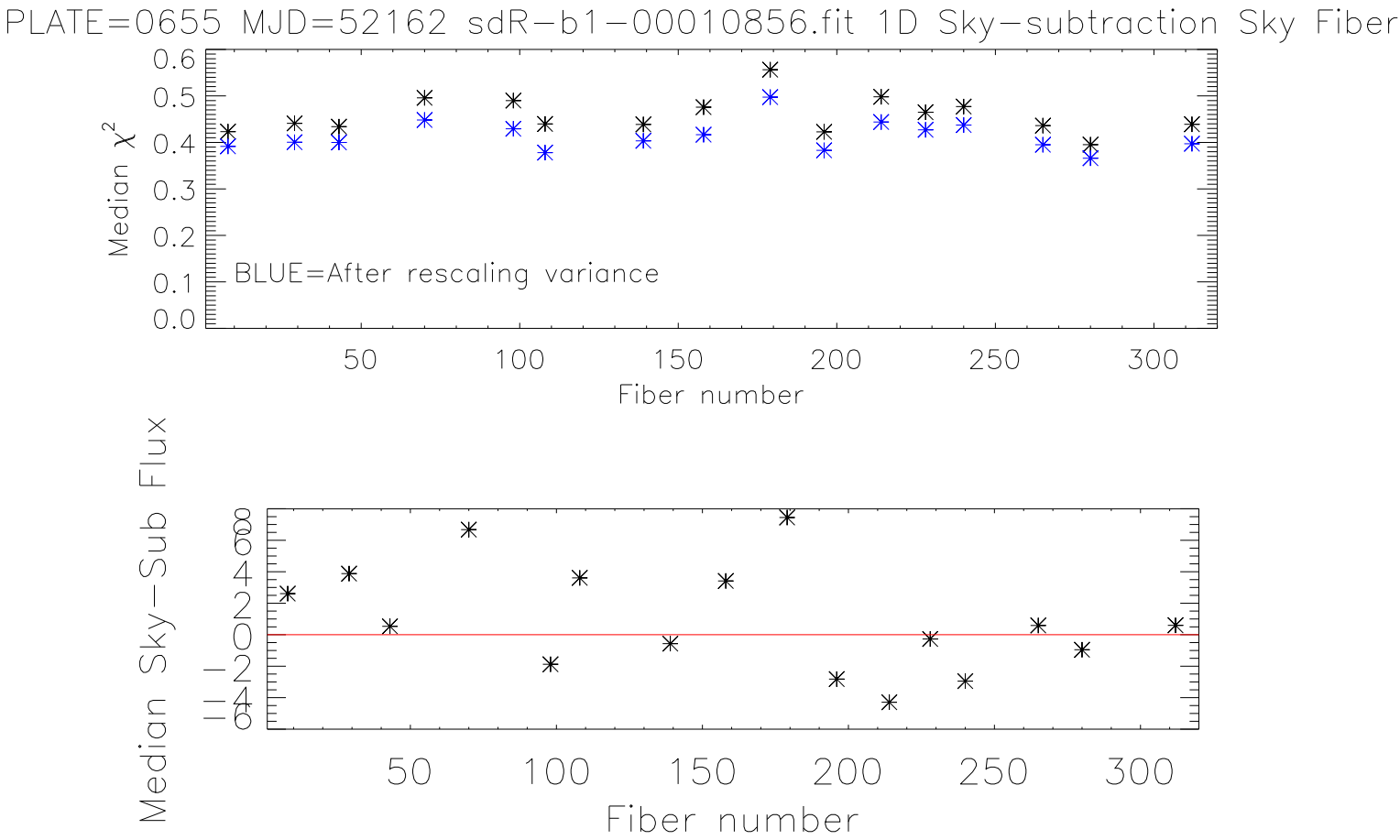

5889.9500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

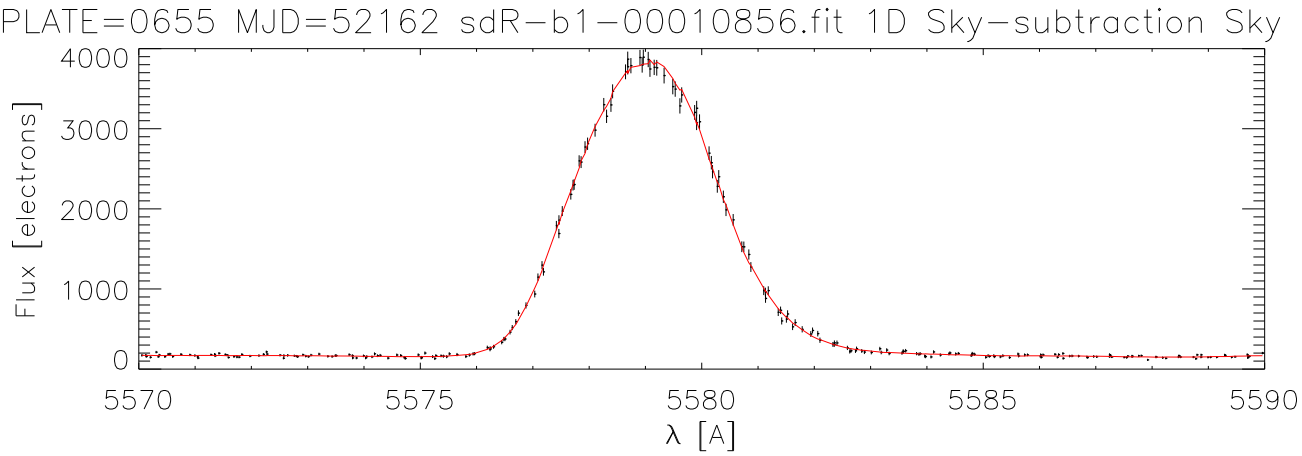

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

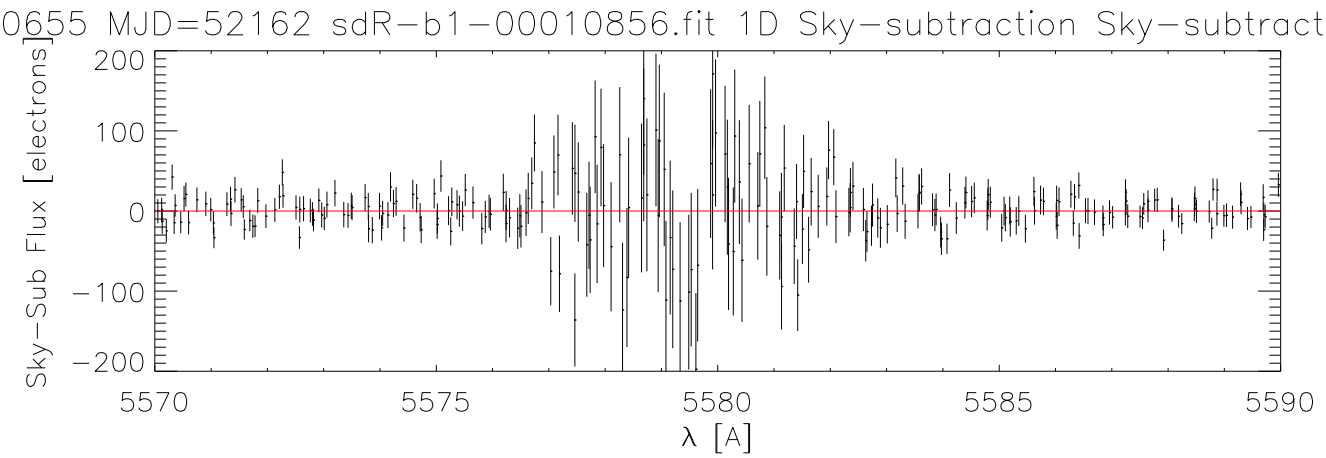

4046.5600
nfib1 16
nfib2 16
stdev 0.088
extra 0.09
4358.3300
nfib1 15
nfib2 15
stdev 0.041
extra 0.11
5460.9400
nfib1 15
nfib2 15
stdev 0.040
extra 0.06
5577.3390
nfib1 16
nfib2 16
stdev 0.017
extra 0.12
5889.9500
nfib1 16
nfib2 16
stdev 0.030
extra 0.22
5895.9240
nfib1 15
nfib2 15
stdev 0.036
extra 0.21
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

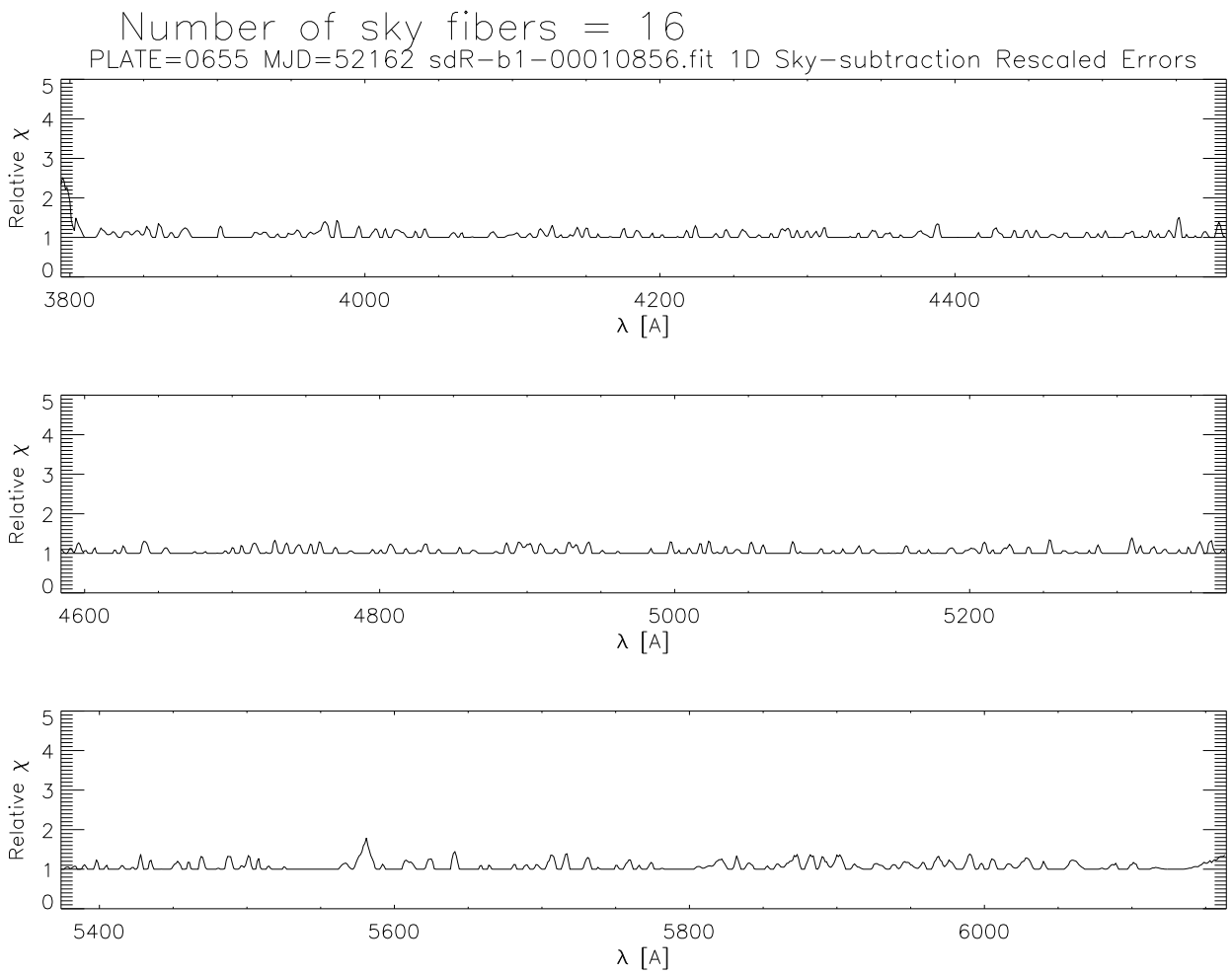

sky shift, pixels
0.20
0.15
0.10
0.05
0.00
−0.05
3500
4000
4500
5000
5500
6000
6500

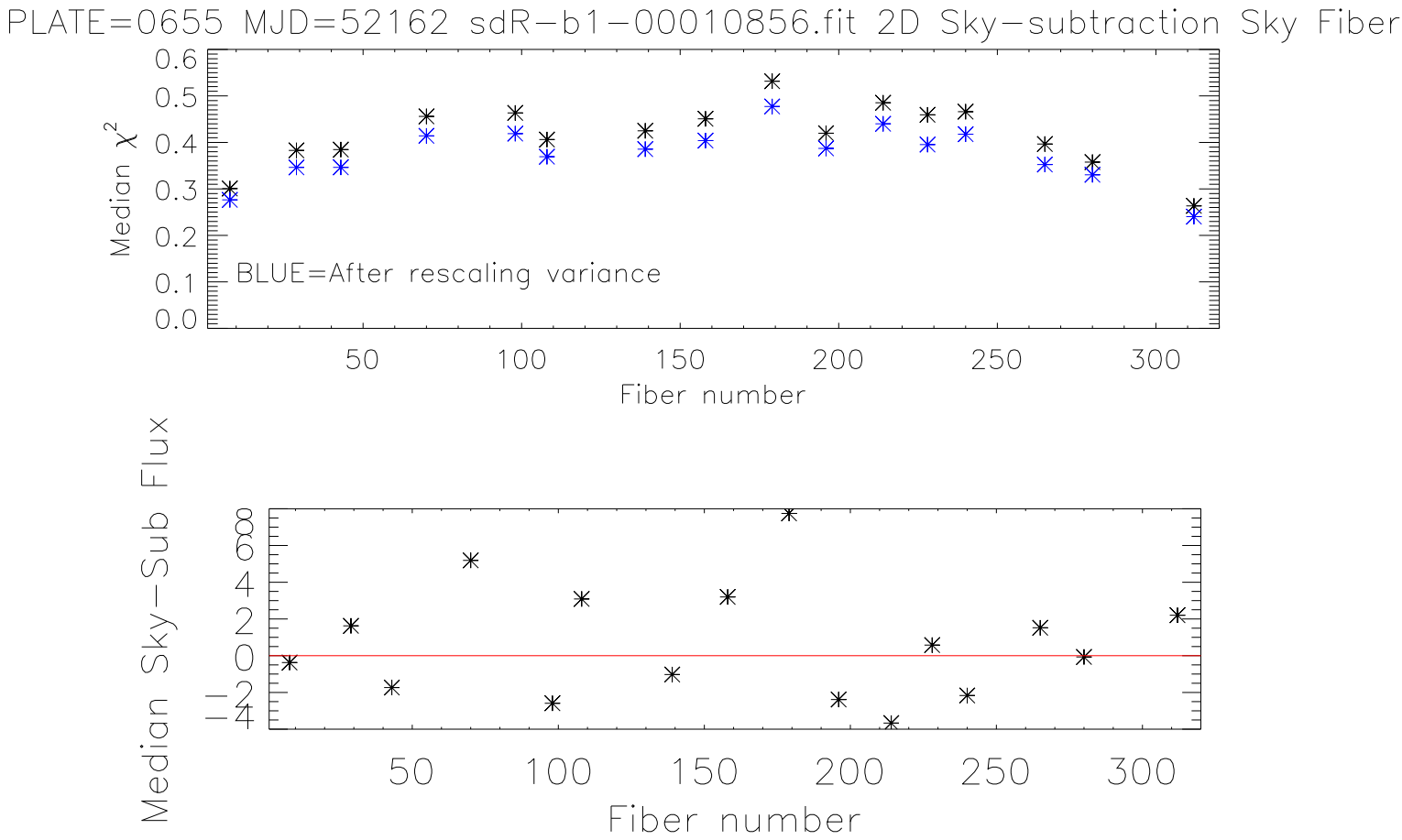

PLATE=0655 MJD=52162 Smooth superflat for sdR-b1-00010856.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

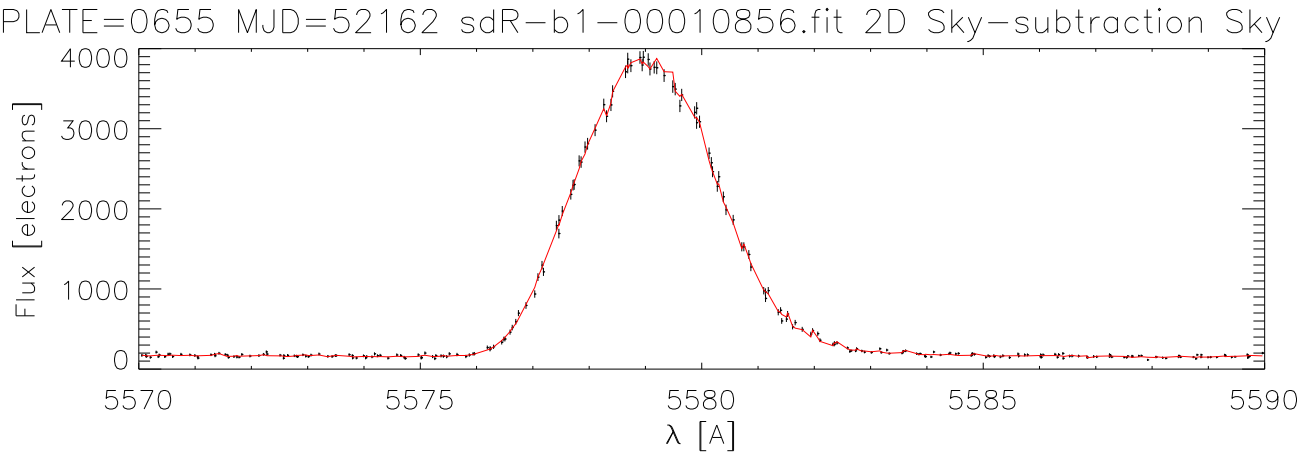

PLATE=0655 MJD=52162 sdR-b1-00010856.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

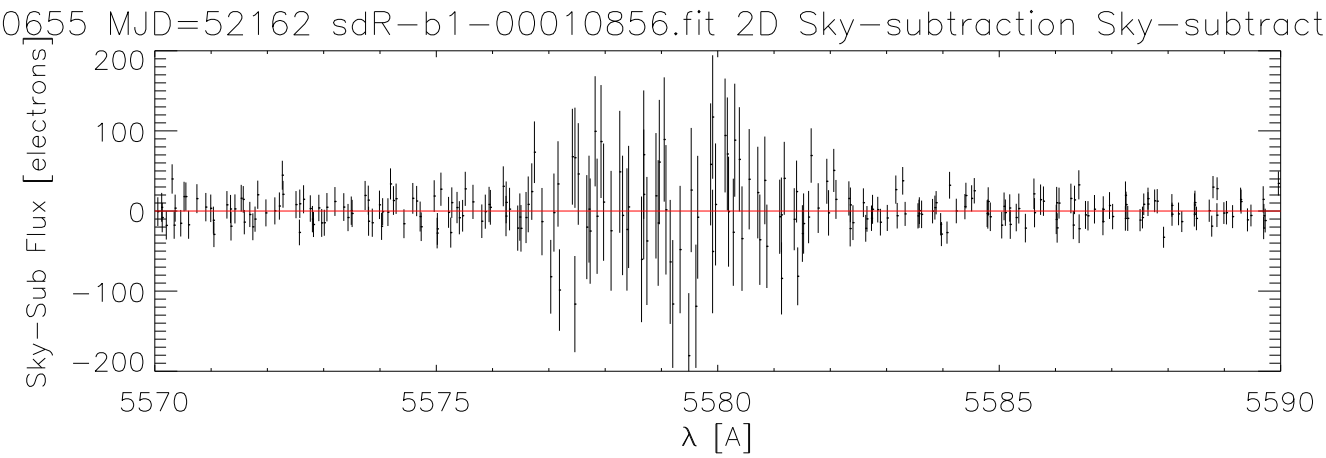

PLATE=0655 MJD=52162 sdR-b1-00010856.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

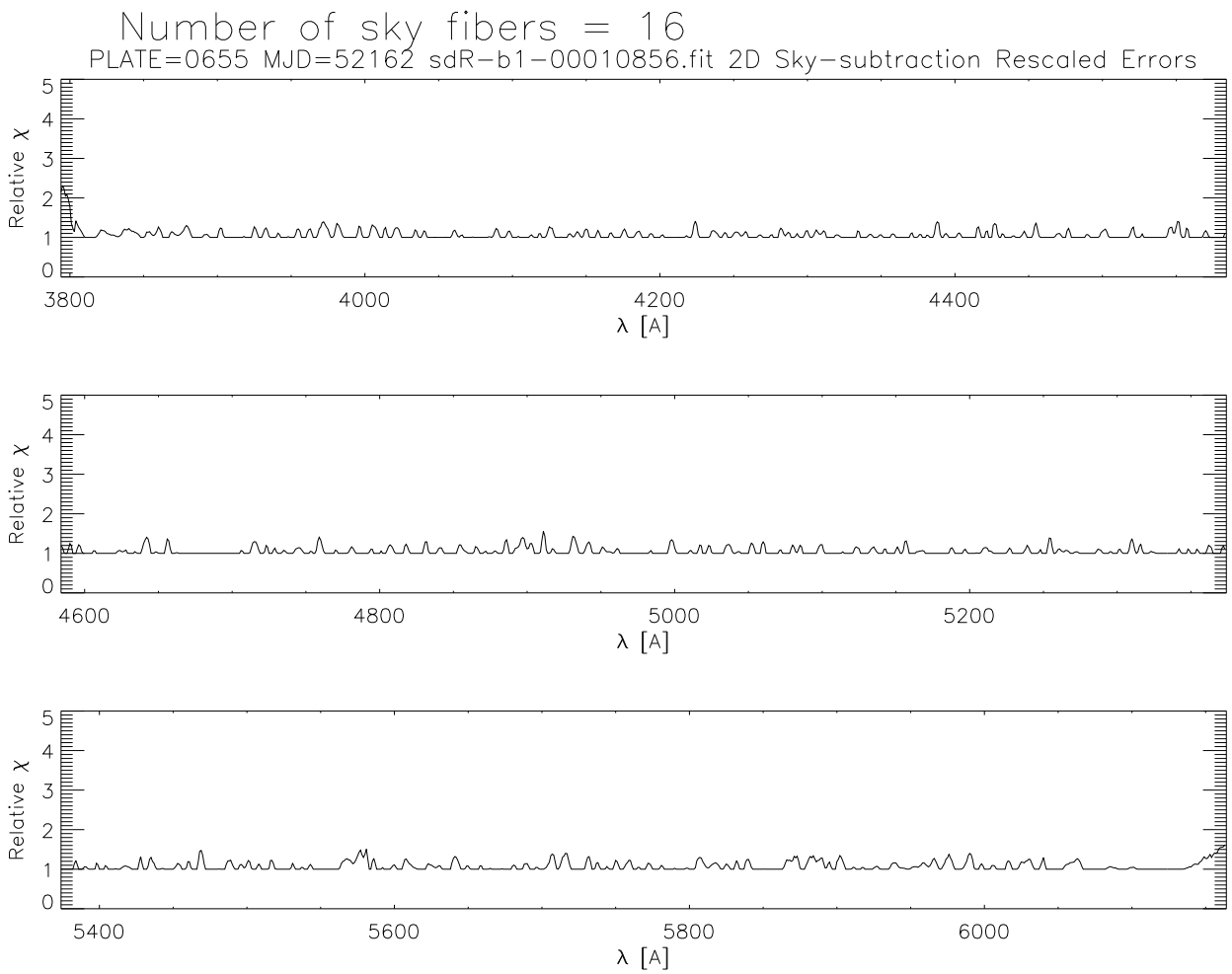

PLATE=0655 MJD=52162 sdR-b1-00010856.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

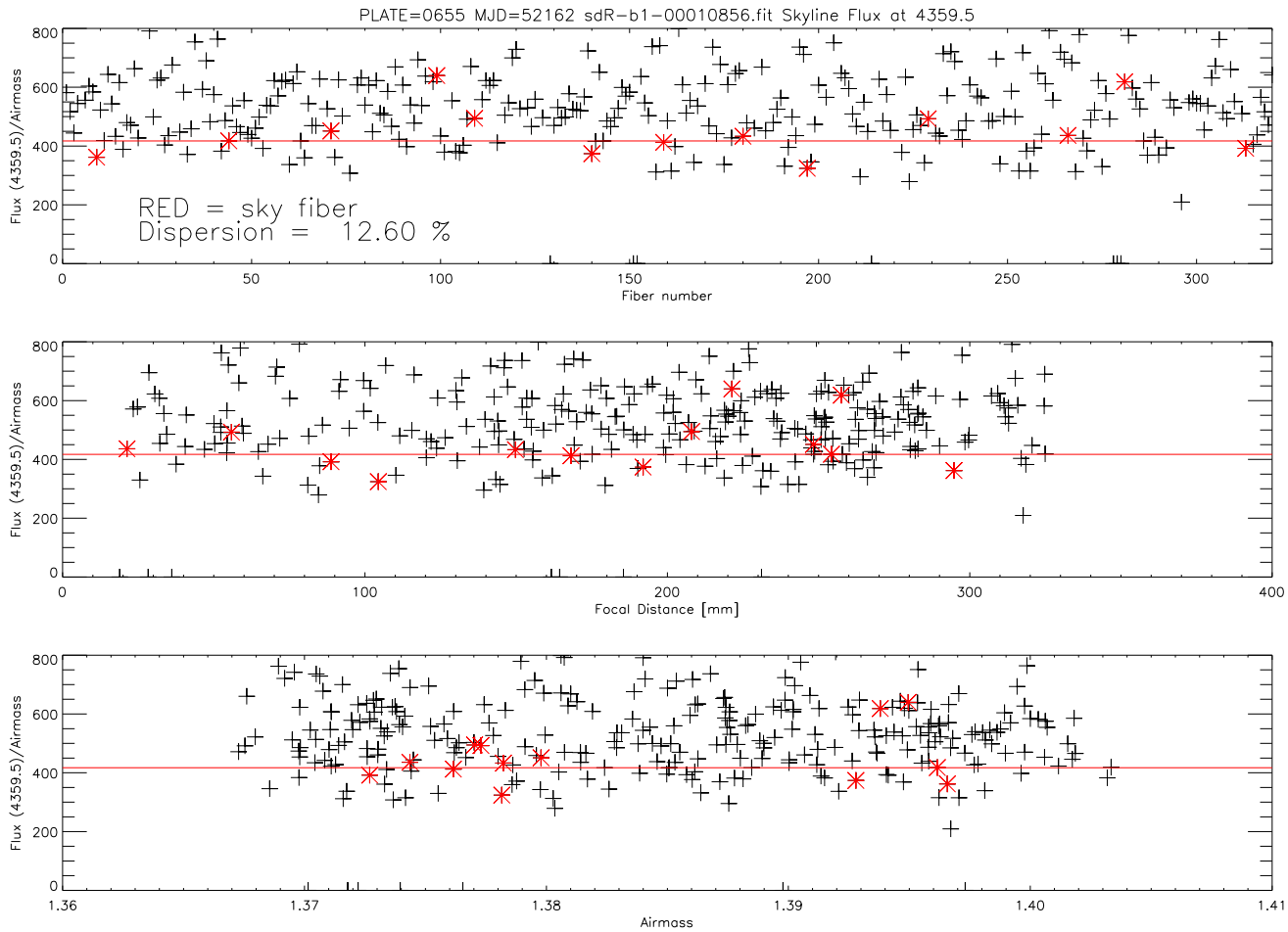

Number of sky fibers = 16
PLATE=0655 MJD=52162 sdR-b1-00010856.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

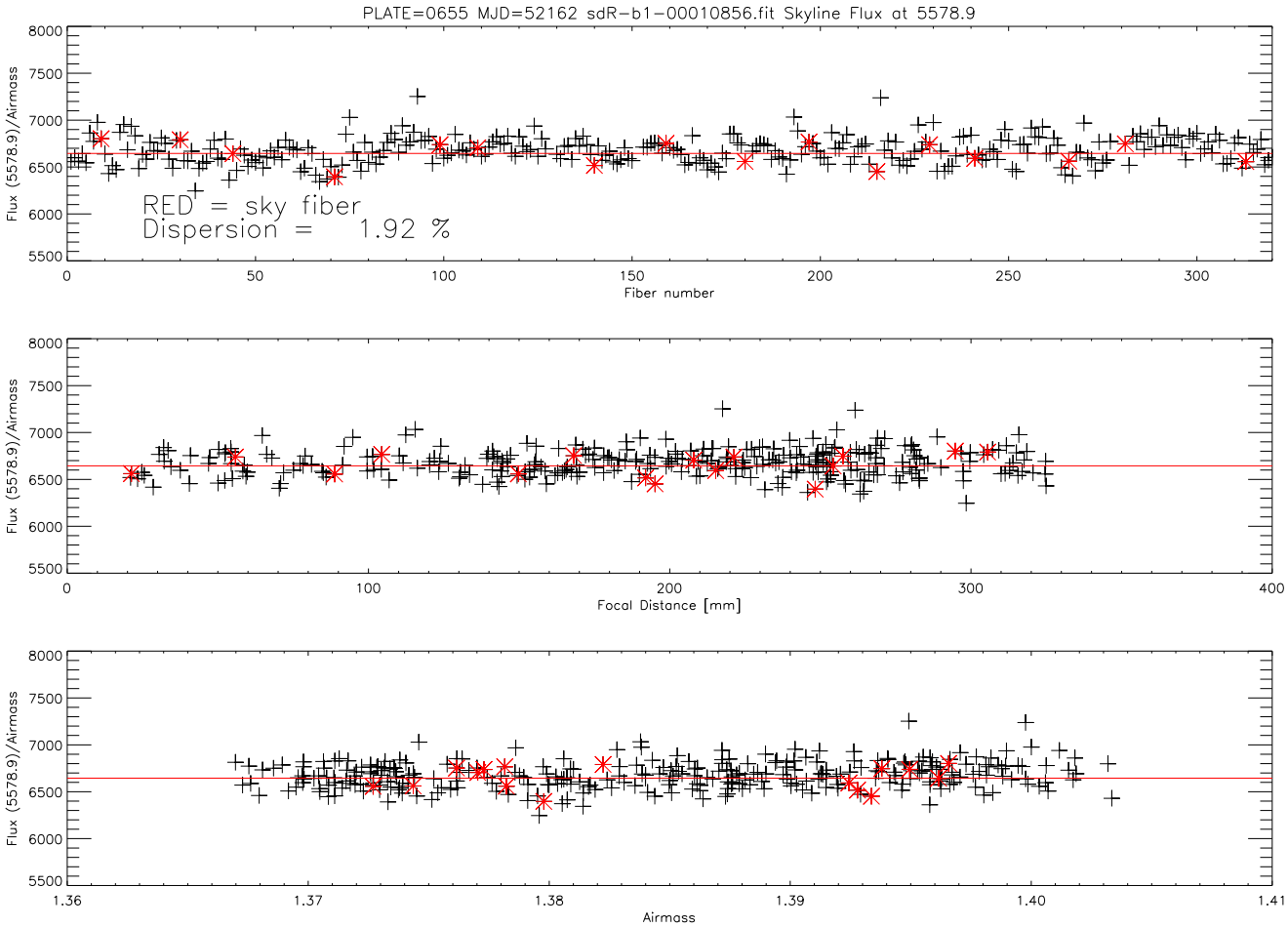

PLATE=0655 MJD=52162 sdR-b1-00010856.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

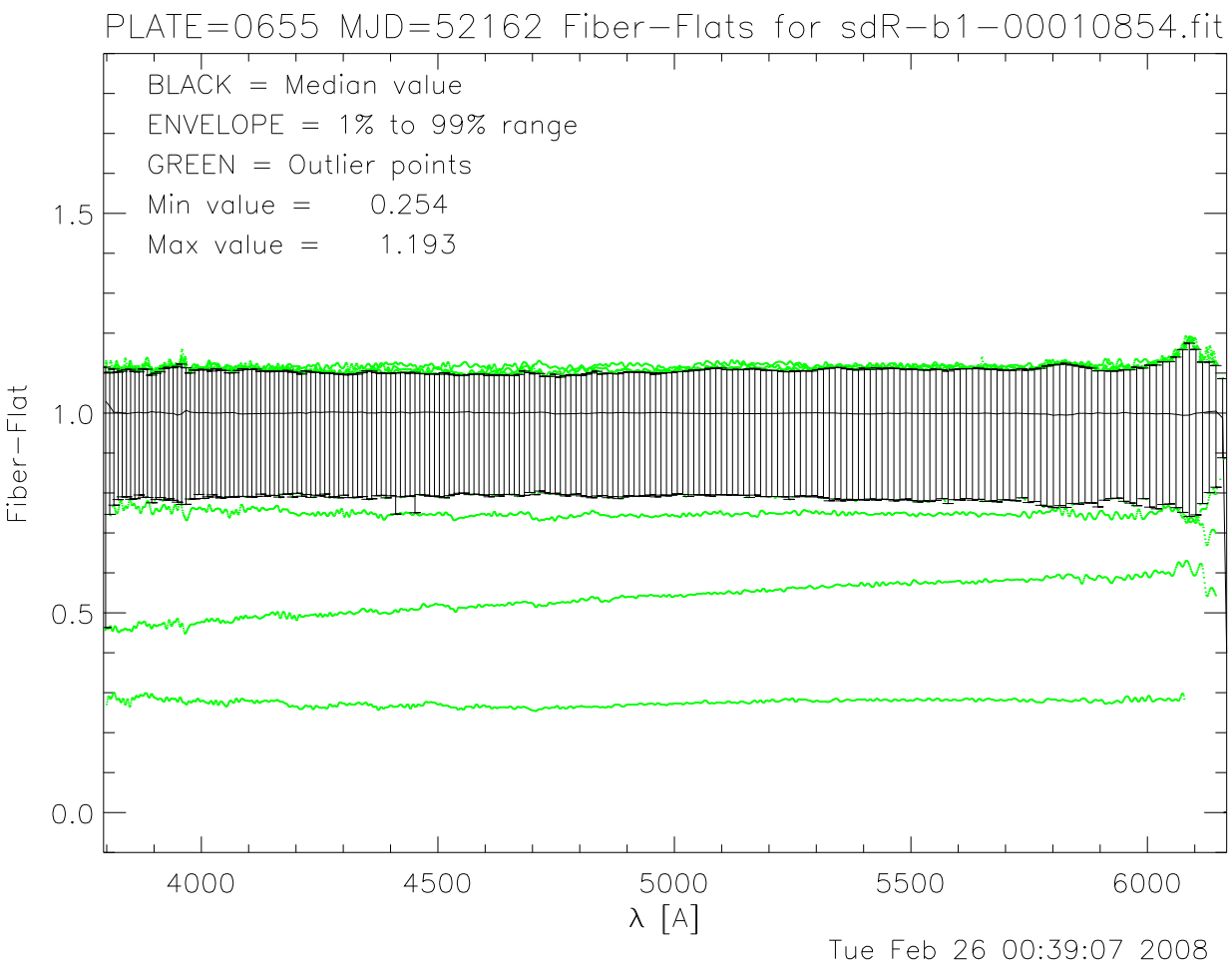

PLATE=0655 MJD=52162 sdR-b1-00010856.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

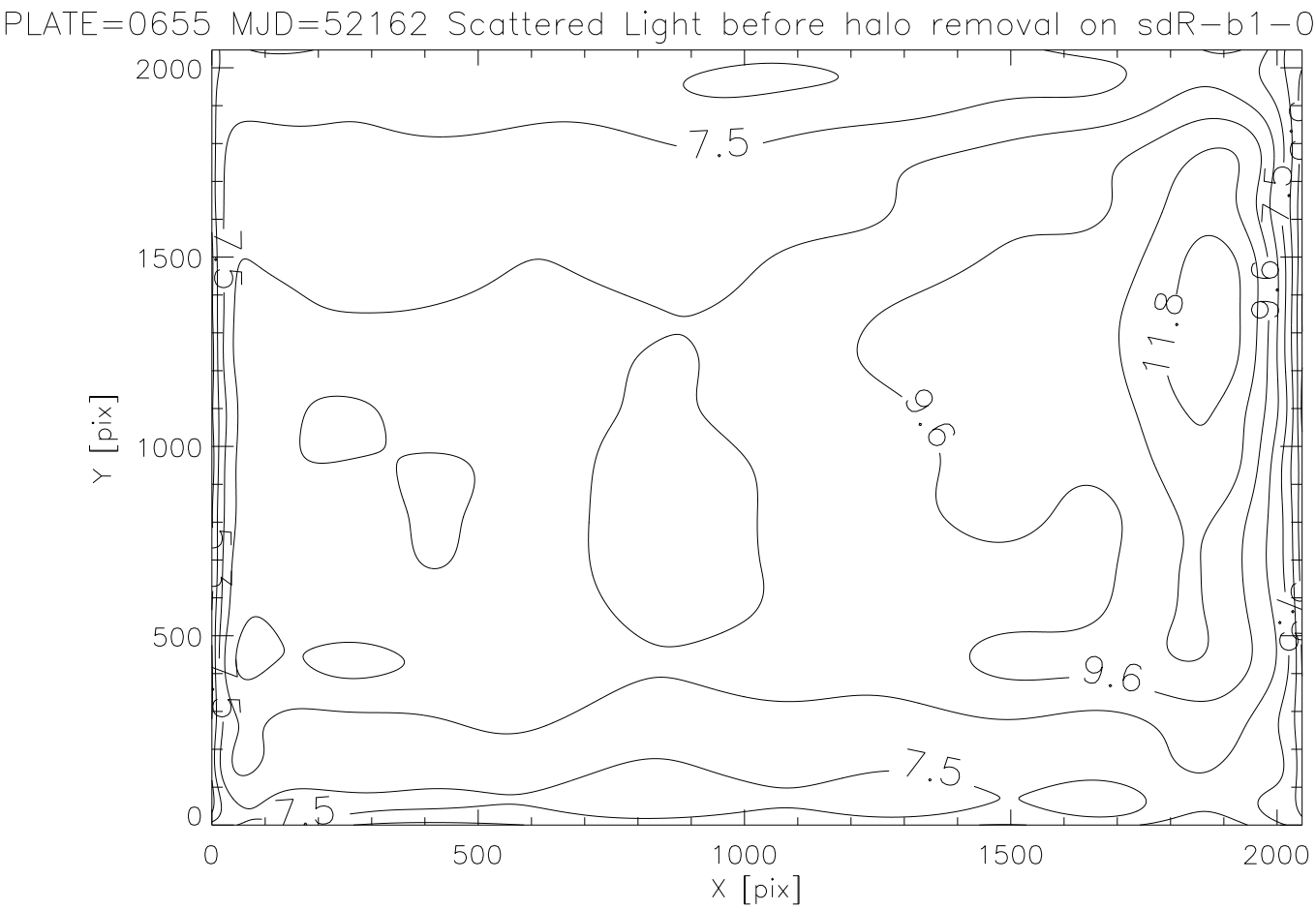

PLATE=0655 MJD=52162 sdR-b1-00010856.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

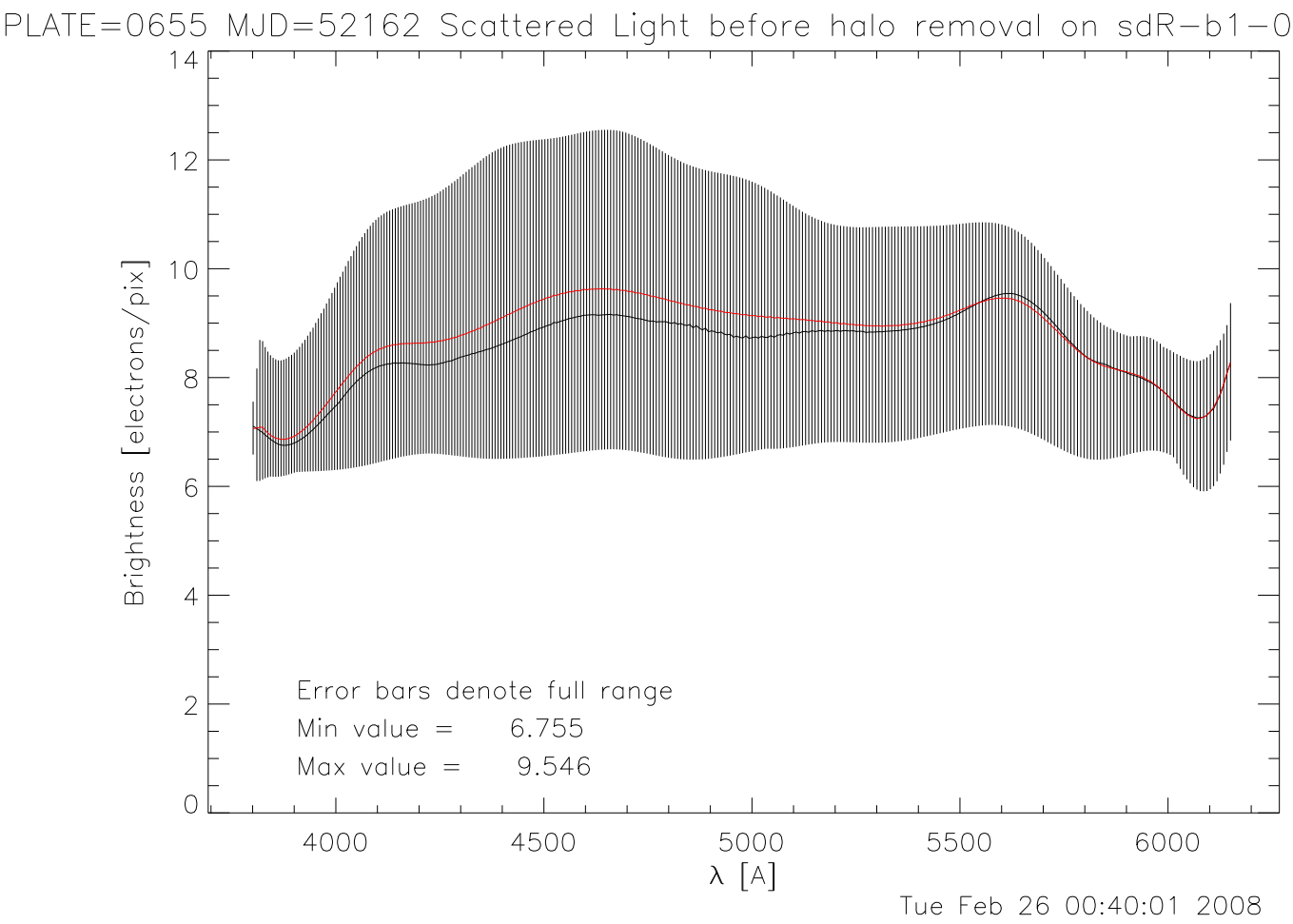

Number of sky fibers = 16
PLATE=0655 MJD=52162 sdR-b1-00010856.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

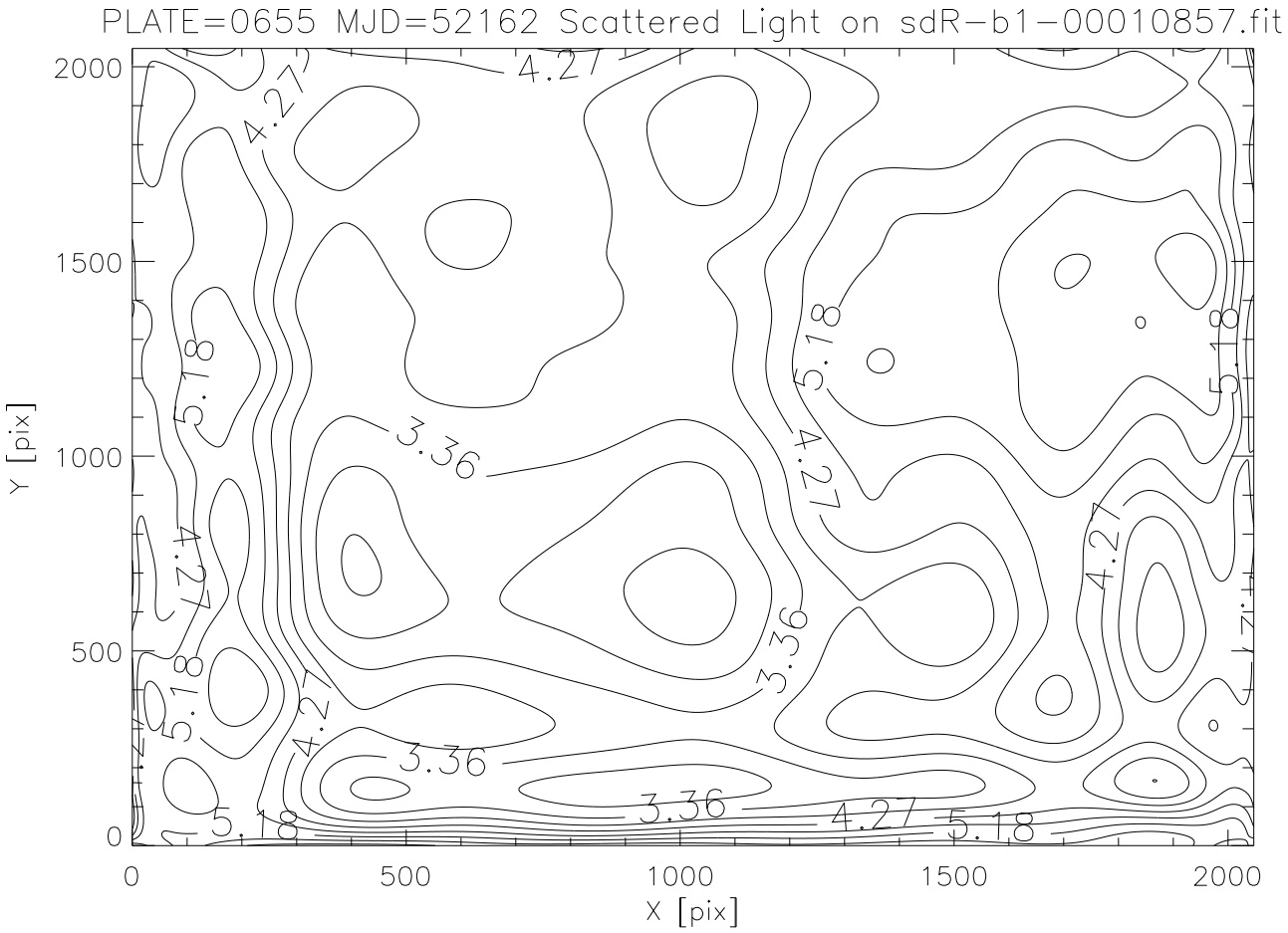

PLATE=0655 MJD=52162 sdR-b1-00010856.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 12.60 %
Fiber number
Focal Distance [mm]
Airmass

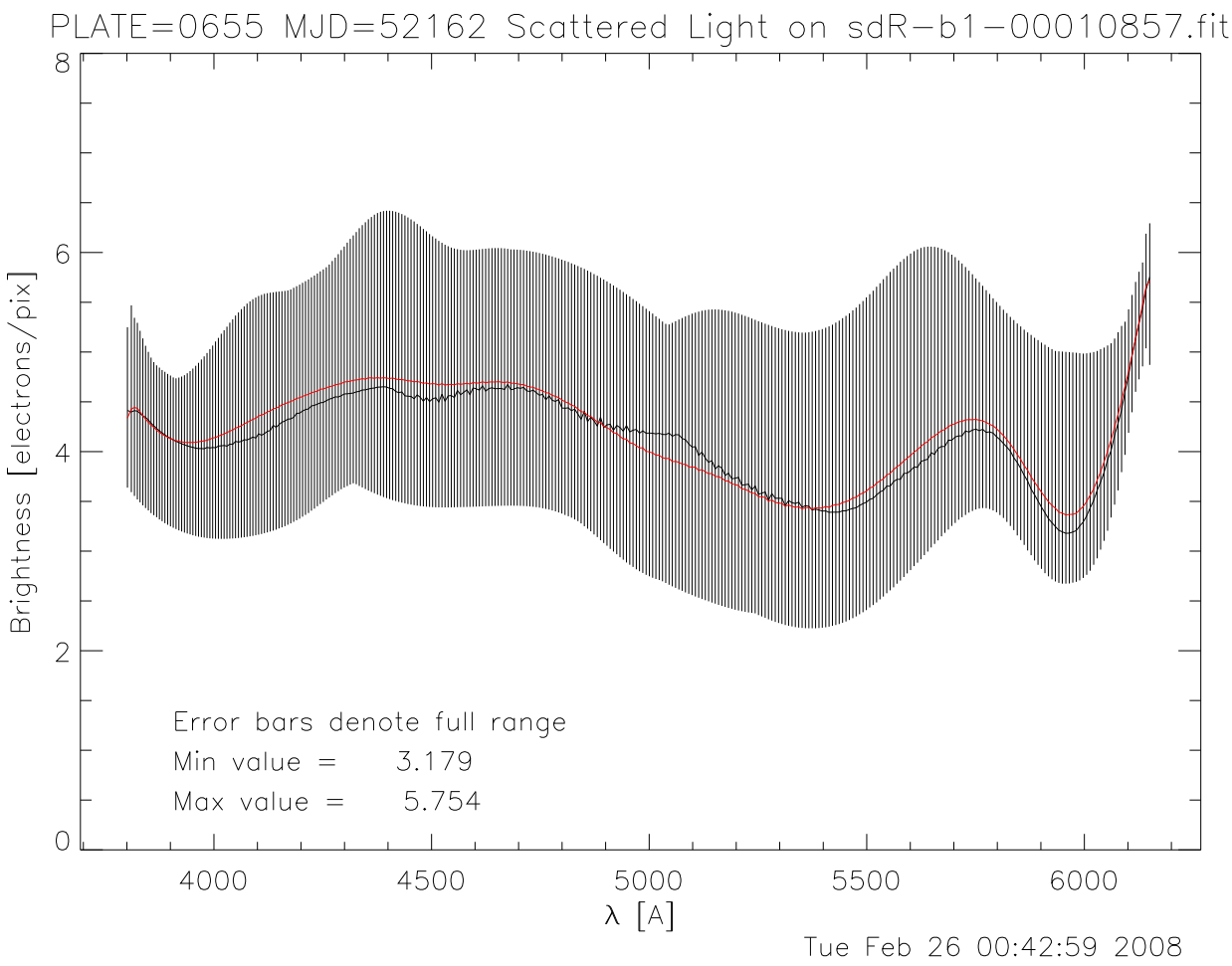

PLATE=0655 MJD=52162 sdR-b1-00010856.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.92 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

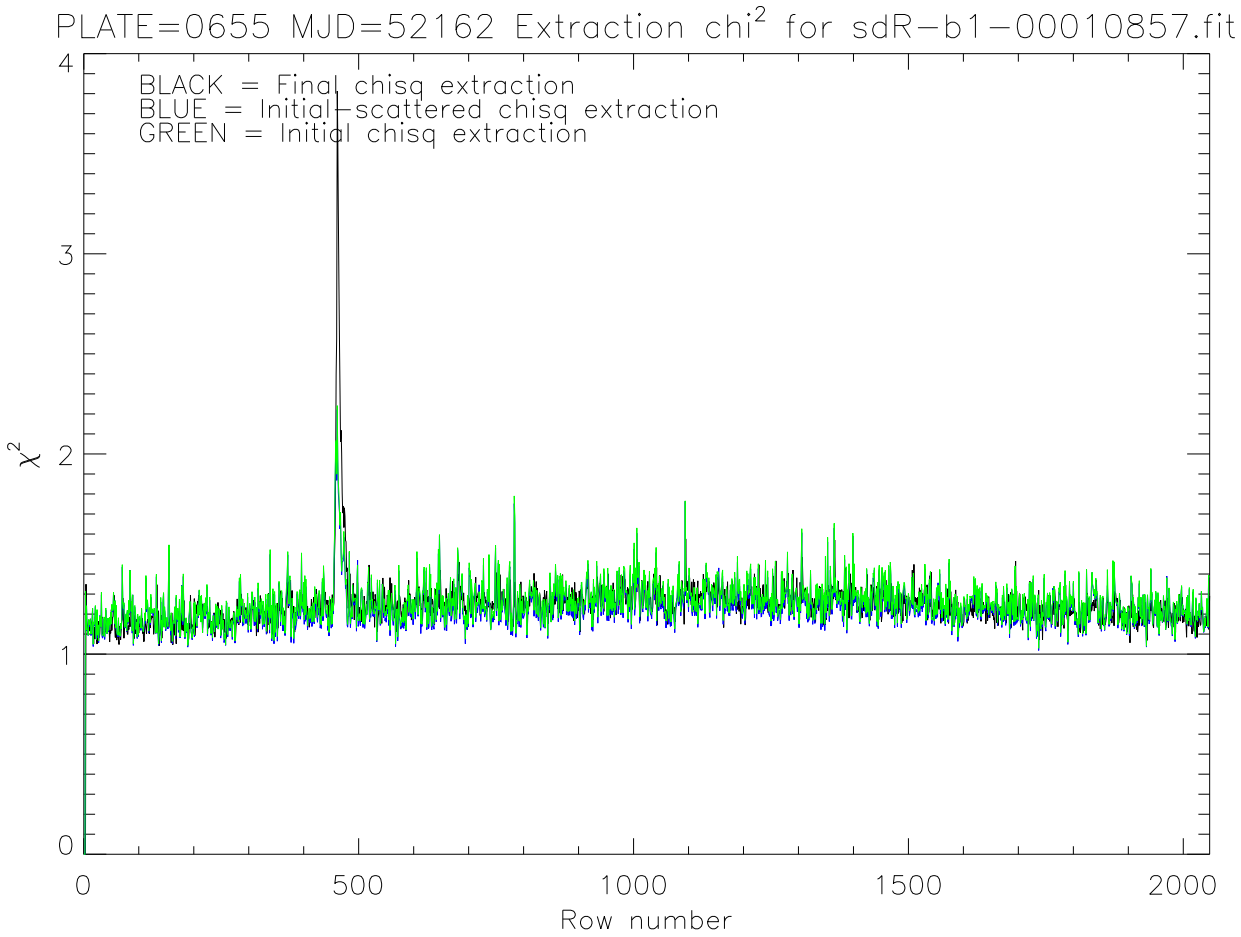

PLATE=0655 MJD=52162 Fiber-Flats for sdR-b1-00010854.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.254
Max value = 1.193
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 00:39:07 2008

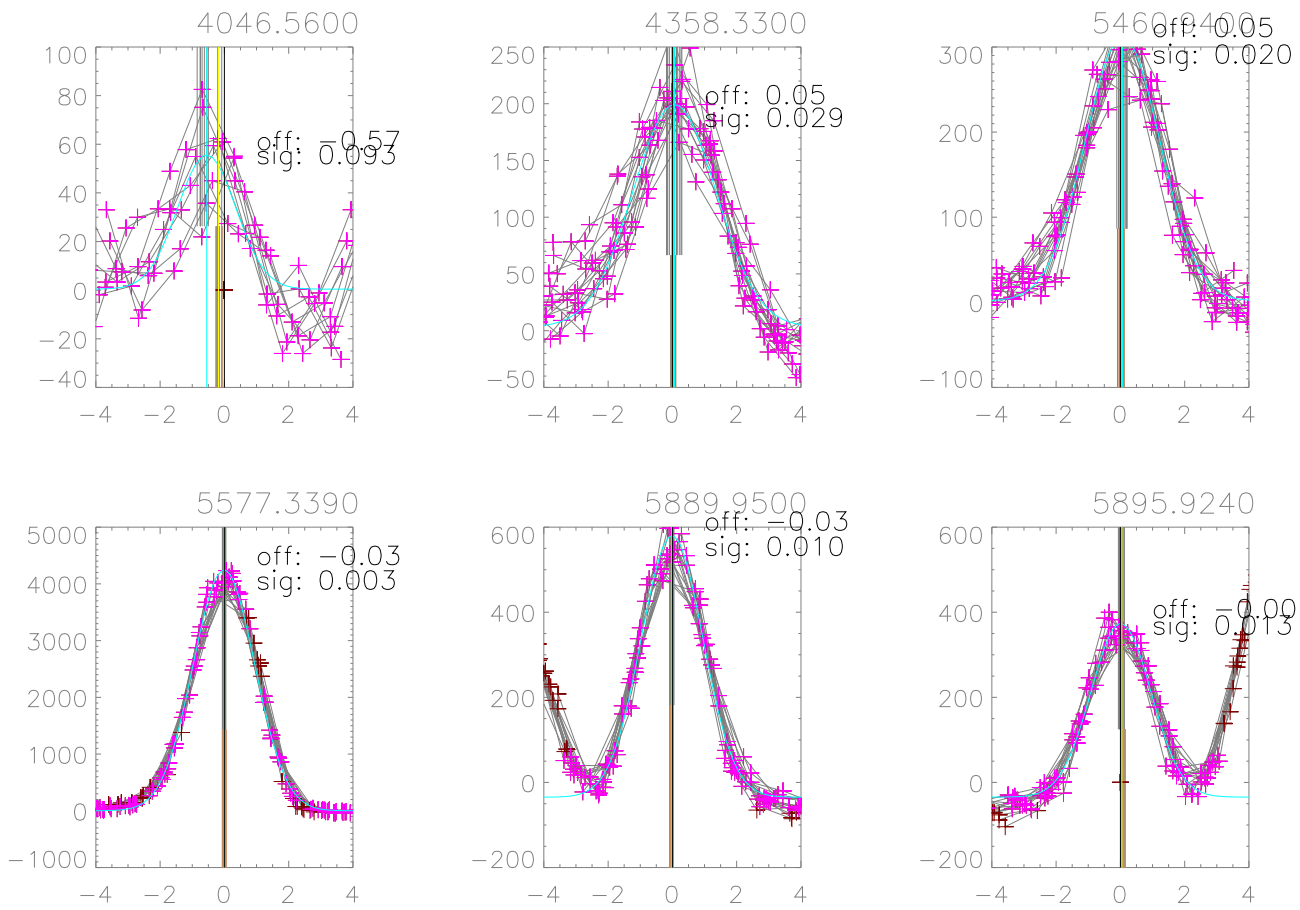

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-b1-00010857.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
7.5
9.6
11.8
7.5
9.6
7.5
9.6
7.5
7.5

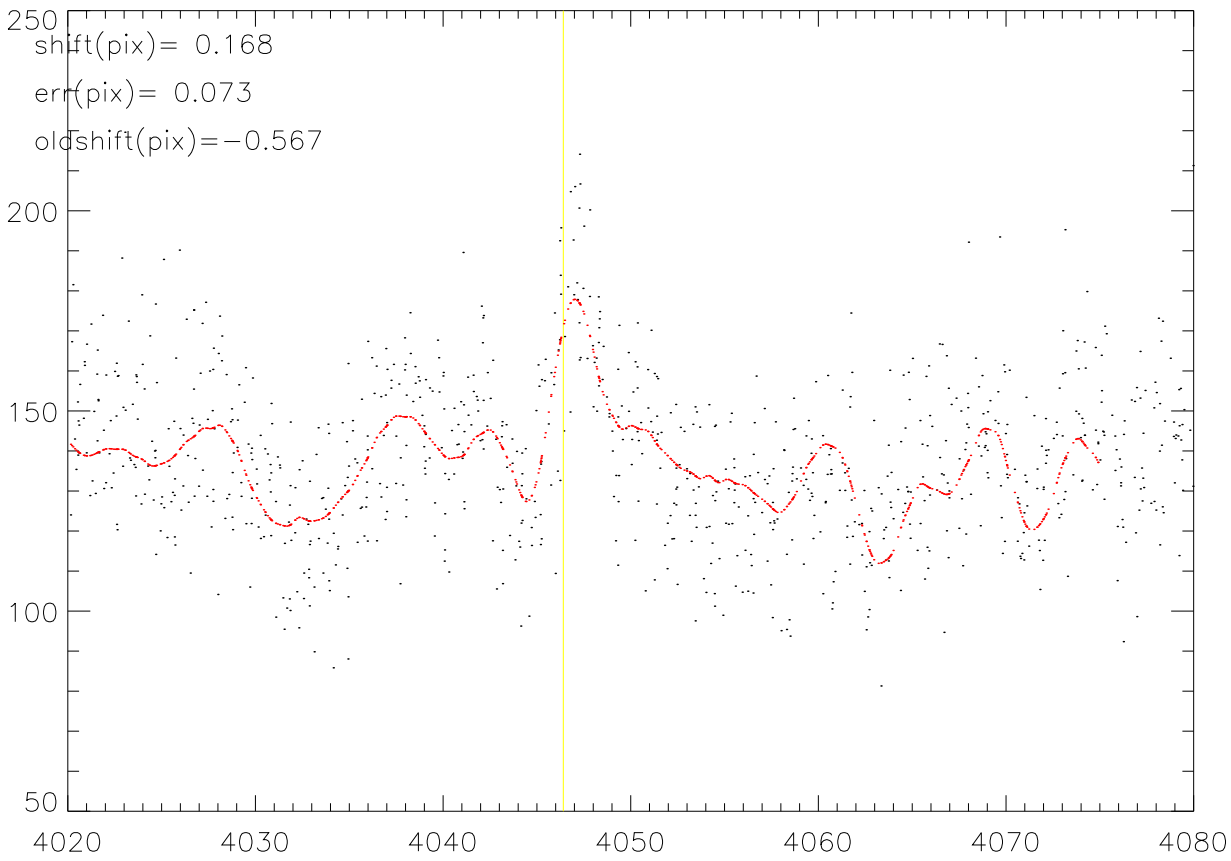

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-b1-00010857.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.755
Max value = 9.546
Tue Feb 26 00:40:01 2008

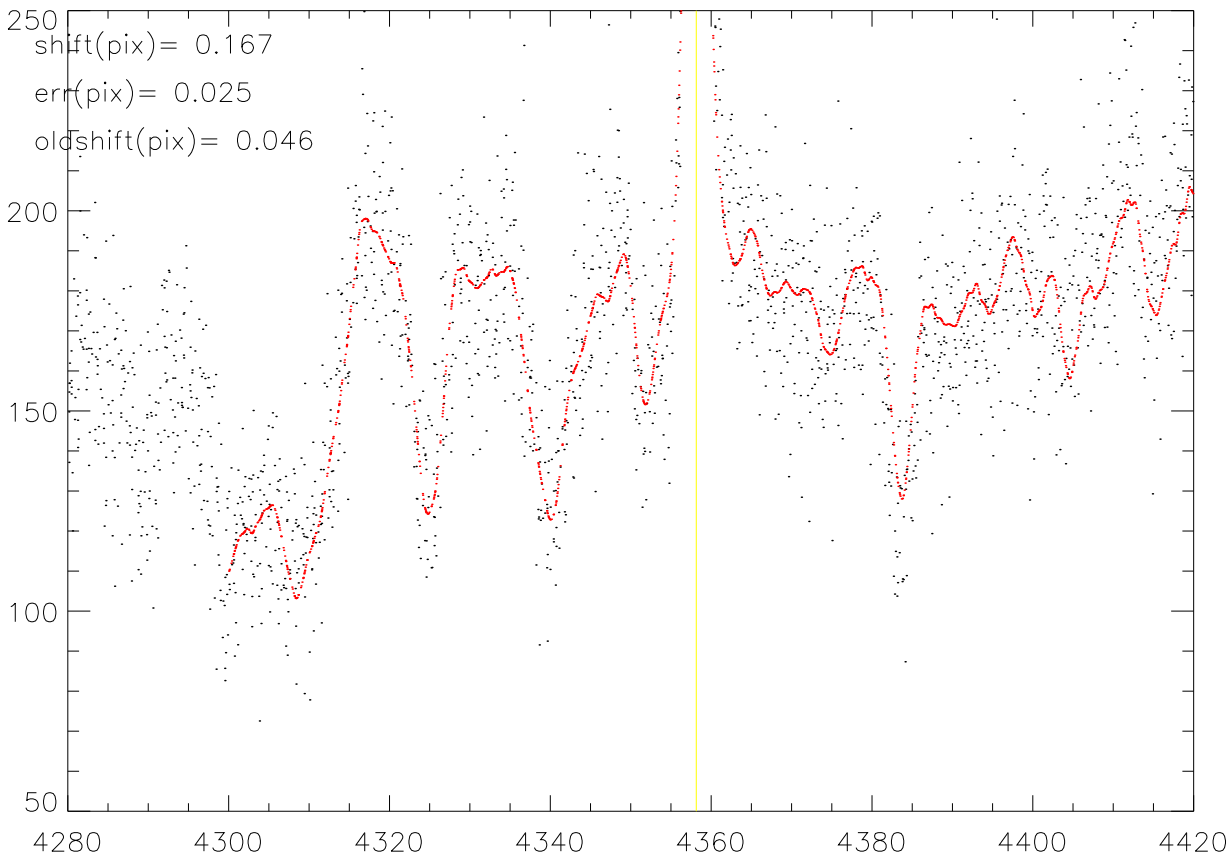

PLATE=0655 MJD=52162 Scattered Light on sdR-b1-00010857.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
3.36
4.27
5.18

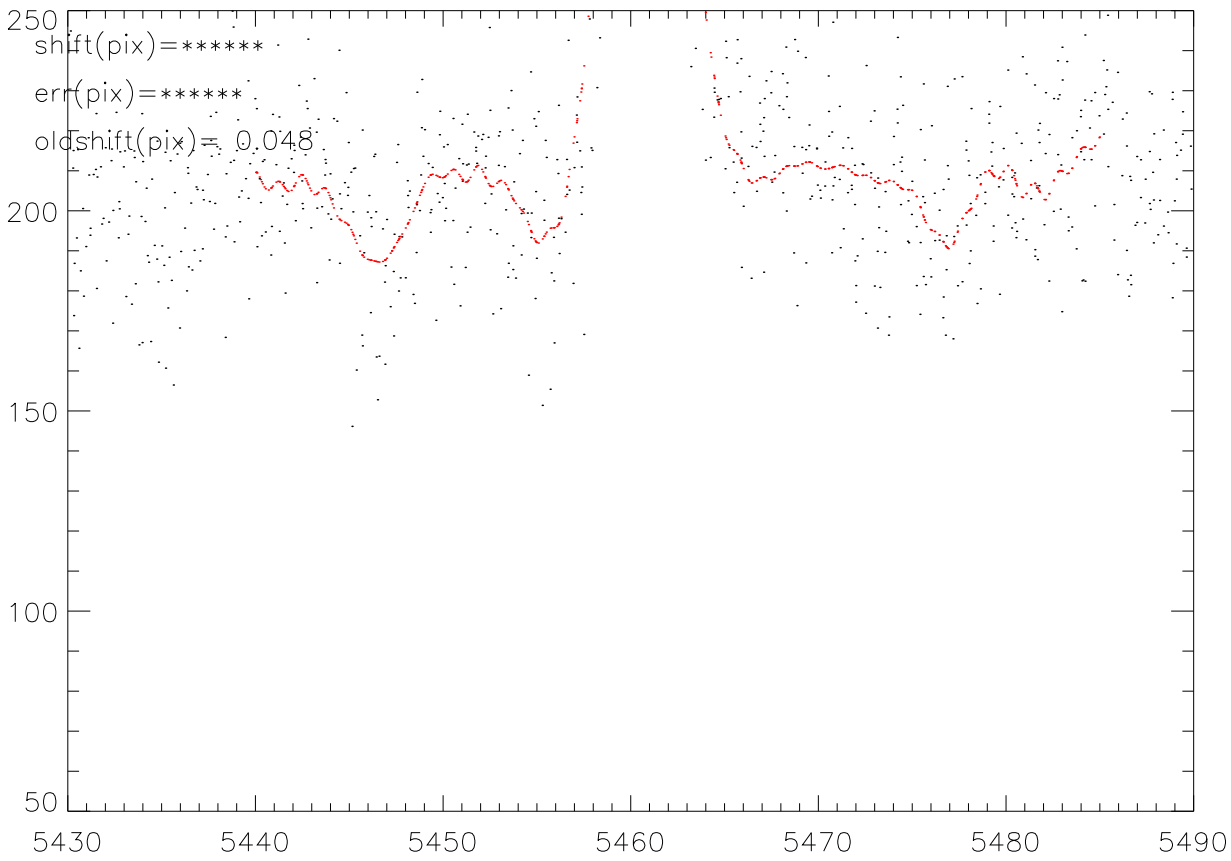

PLATE=0655 MJD=52162 Scattered Light on sdR-b1-00010857.fit
Brightness [electrons/pix]
0
2
4
6
8
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 3.179
Max value = 5.754
Tue Feb 26 00:42:59 2008

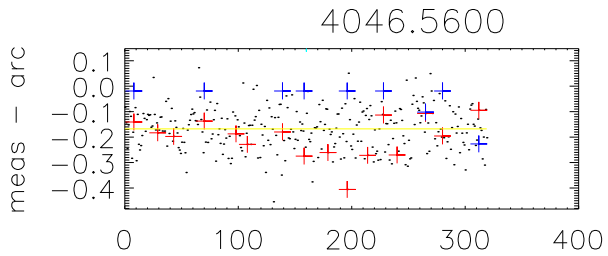

PLATE=0655 MJD=52162 Extraction chi^2 for sdR-b1-00010857.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

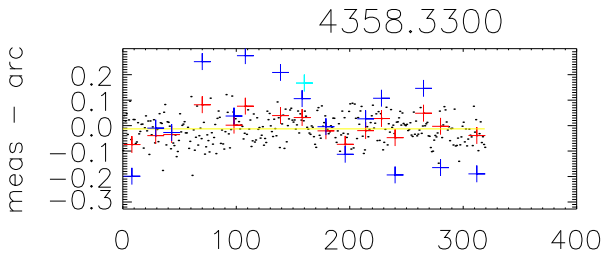

4046.5600
off: −0.57
sig: 0.093
4358.3300
off: 0.05
sig: 0.029
5460.0400
off: 0.05
sig: 0.020
5577.3390
off: −0.03
sig: 0.003
5889.9500
off: −0.03
sig: 0.010
5895.9240
off: −0.00
sig: 0.013

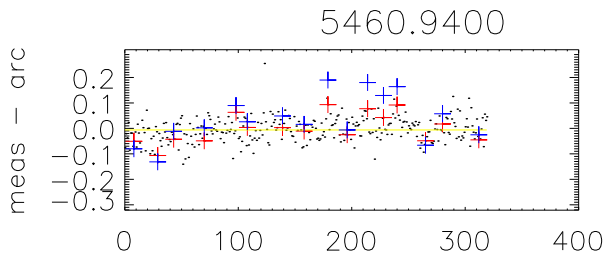

shift(pix)= 0.168
err(pix)= 0.073
oldshift(pix)=−0.567
250
200
150
100
50
4020
4030
4040
4050
4060
4070
4080

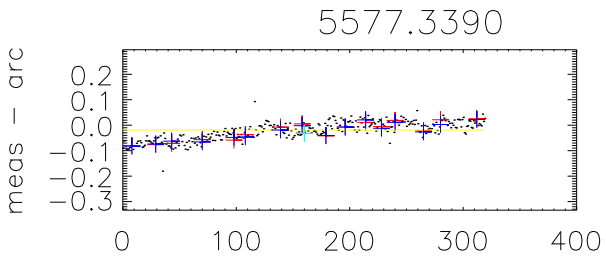

shift(pix)= 0.167
err(pix)= 0.025
oldshift(pix)= 0.046
250
200
150
100
50
4280
4300
4320
4340
4360
4380
4400
4420

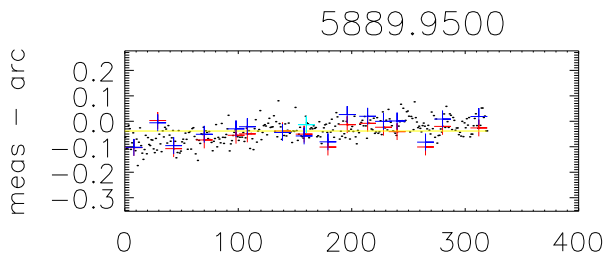

shift(pix)=******
err(pix)=******
oldshift(pix)= 0.048
250
200
150
100
50
5430
5440
5450
5460
5470
5480
5490

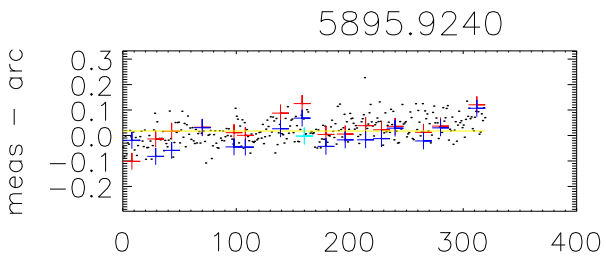

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

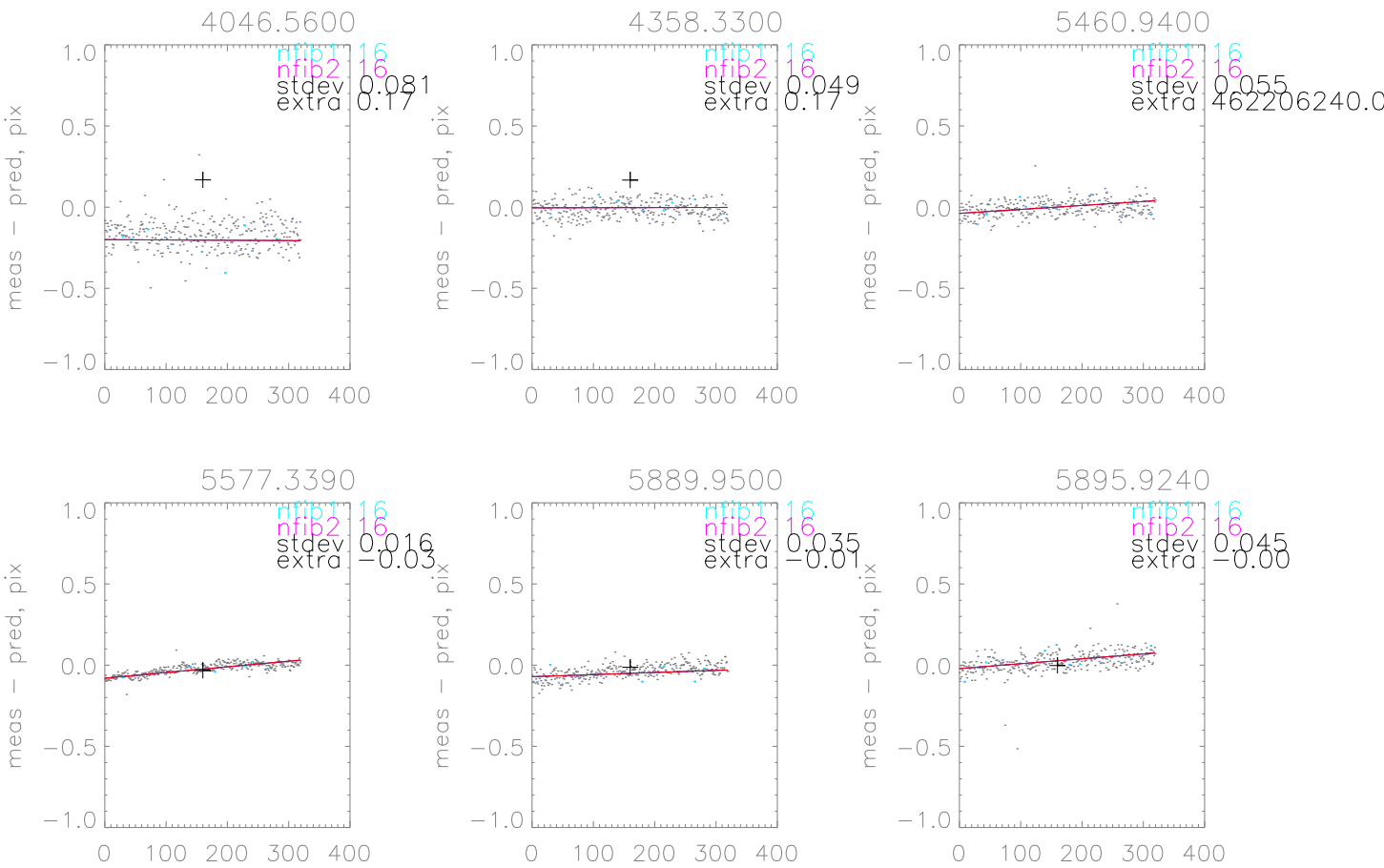

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

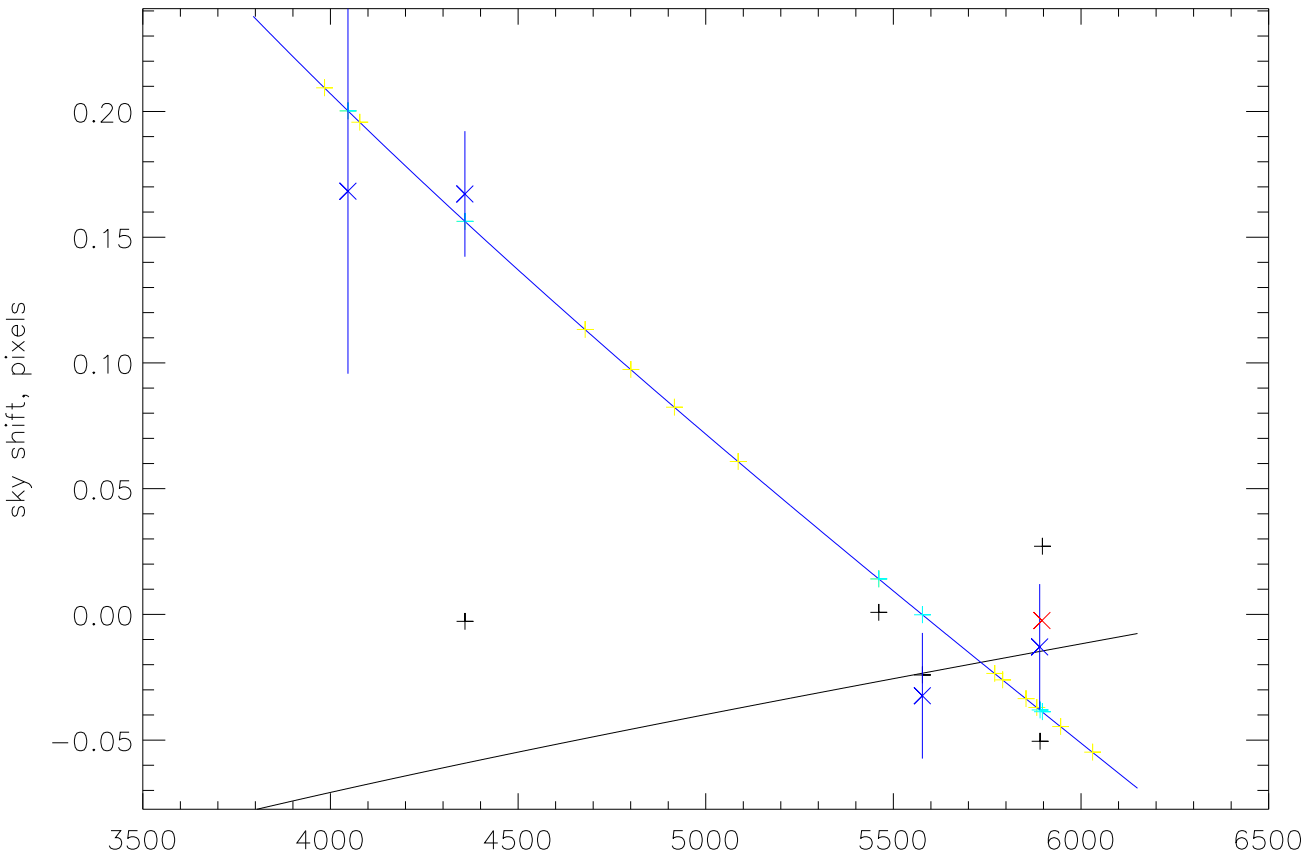

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

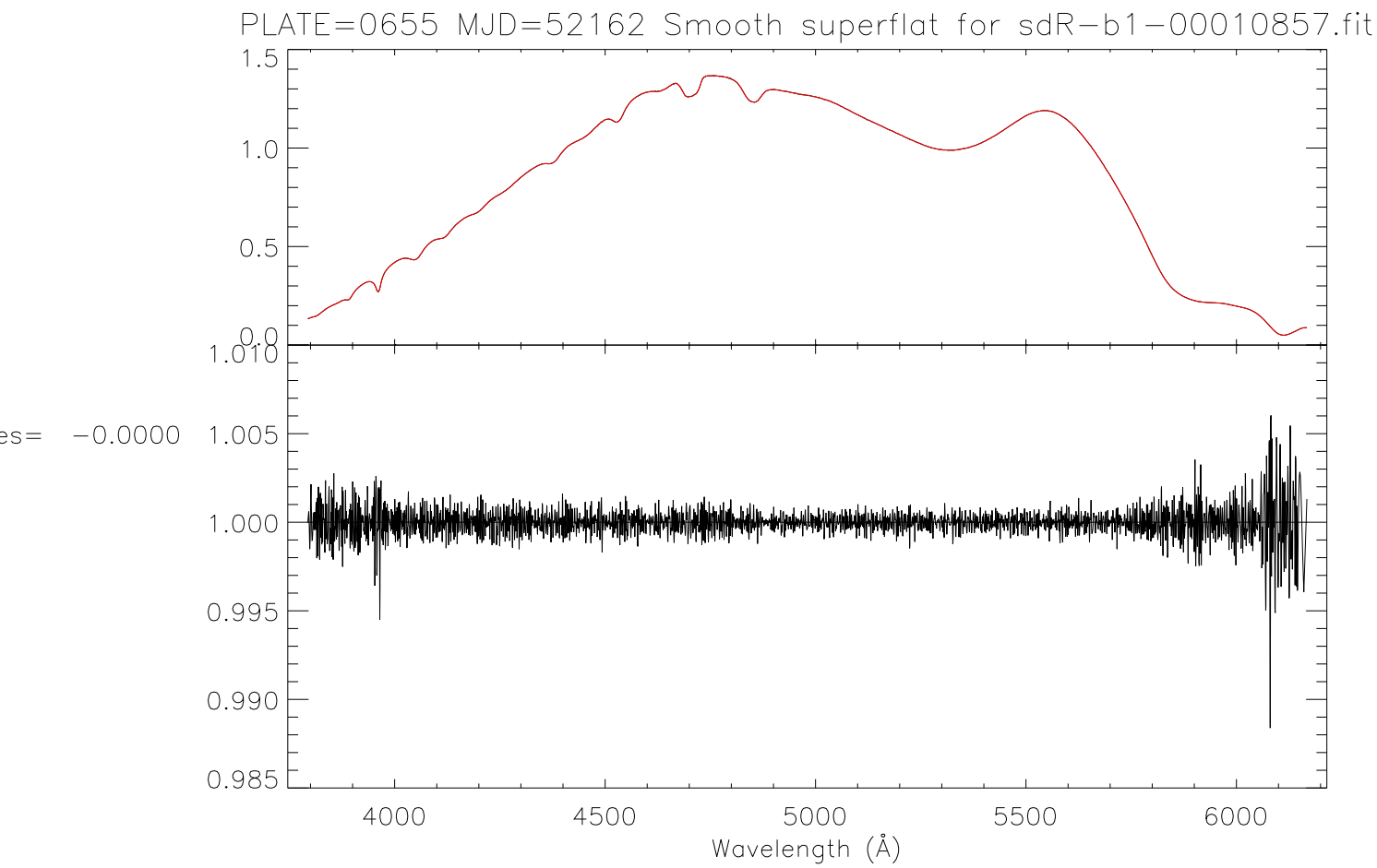

5577.3390
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

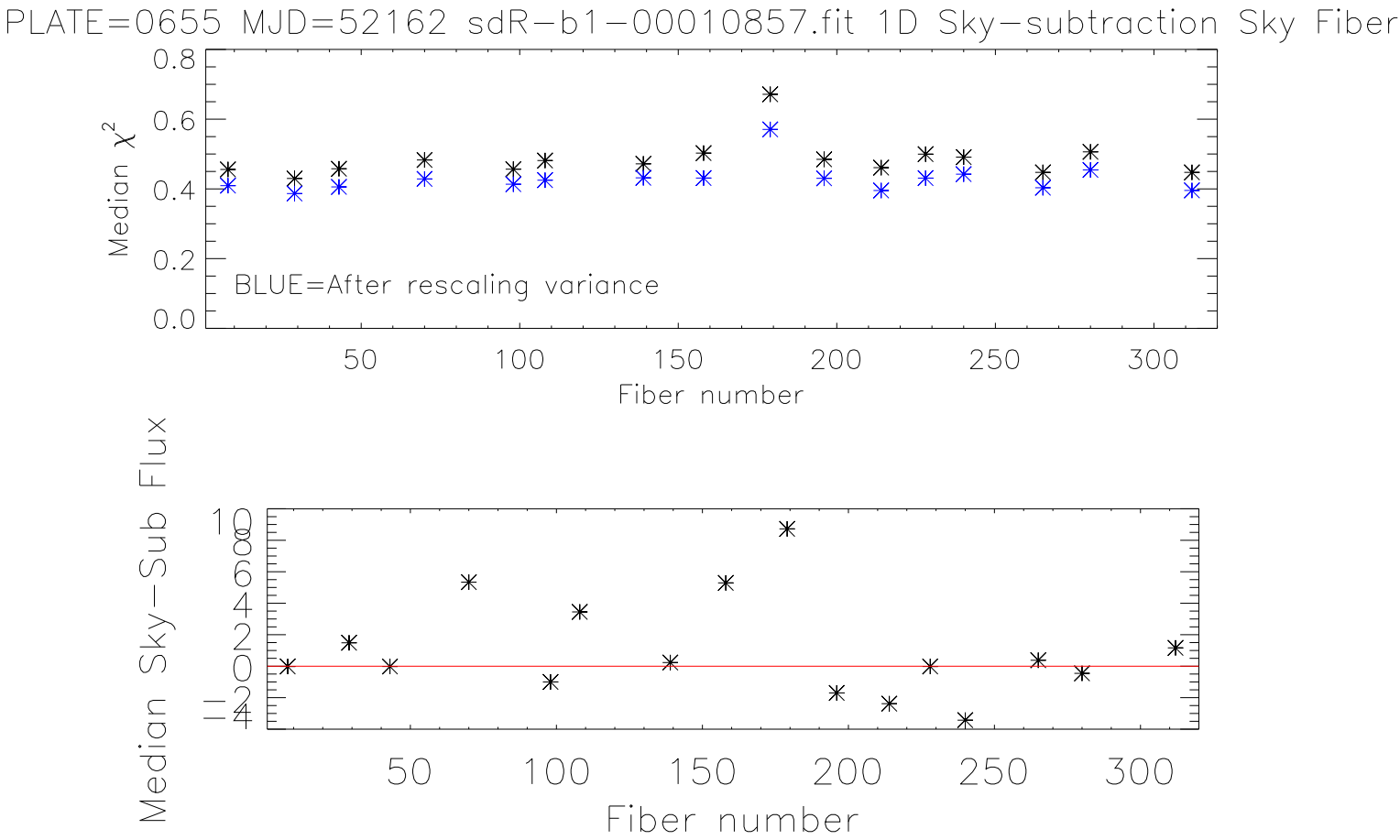

5889.9500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

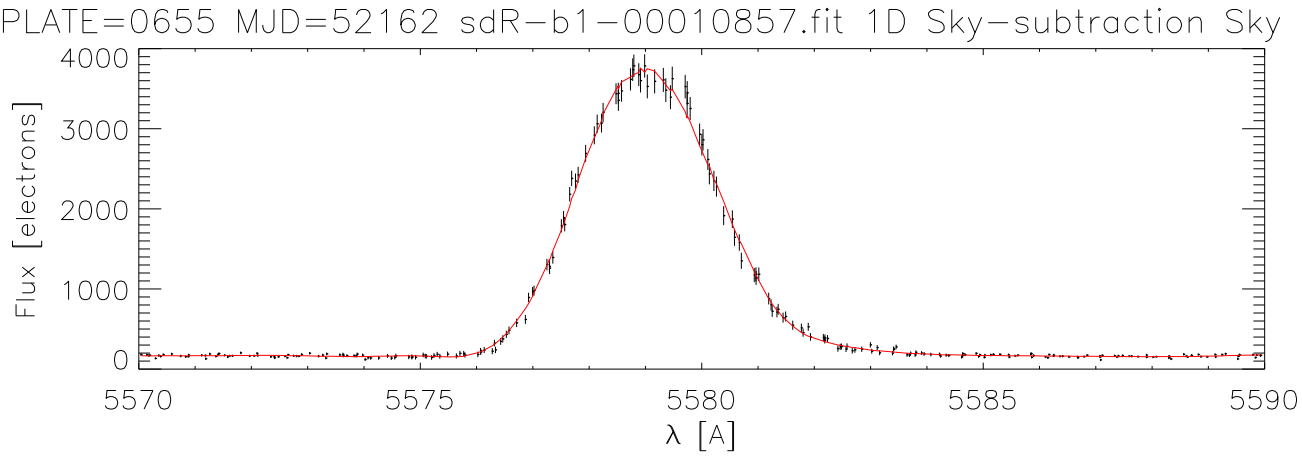

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

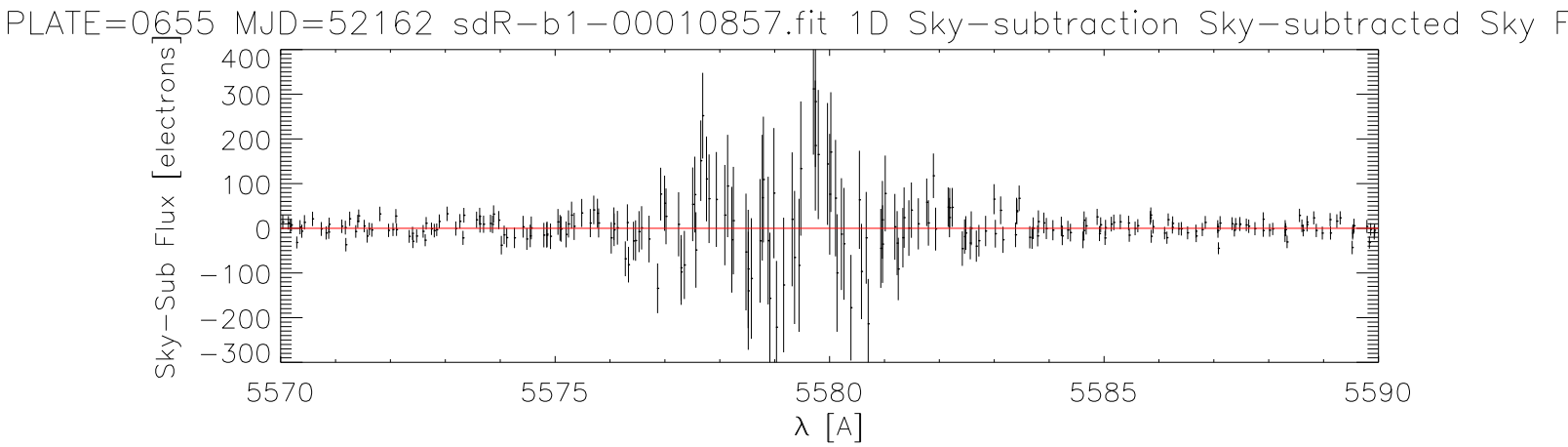

4046.5600
nfib1 16
nfib2 16
stdev 0.081
extra 0.17
4358.3300
nfib1 16
nfib2 16
stdev 0.049
extra 0.17
5460.9400
nfib1 16
nfib2 16
stdev 0.055
extra 462206240.0
5577.3390
nfib1 16
nfib2 16
stdev 0.016
extra −0.03
5889.9500
nfib1 16
nfib2 16
stdev 0.035
extra −0.01
5895.9240
nfib1 16
nfib2 16
stdev 0.045
extra −0.00
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

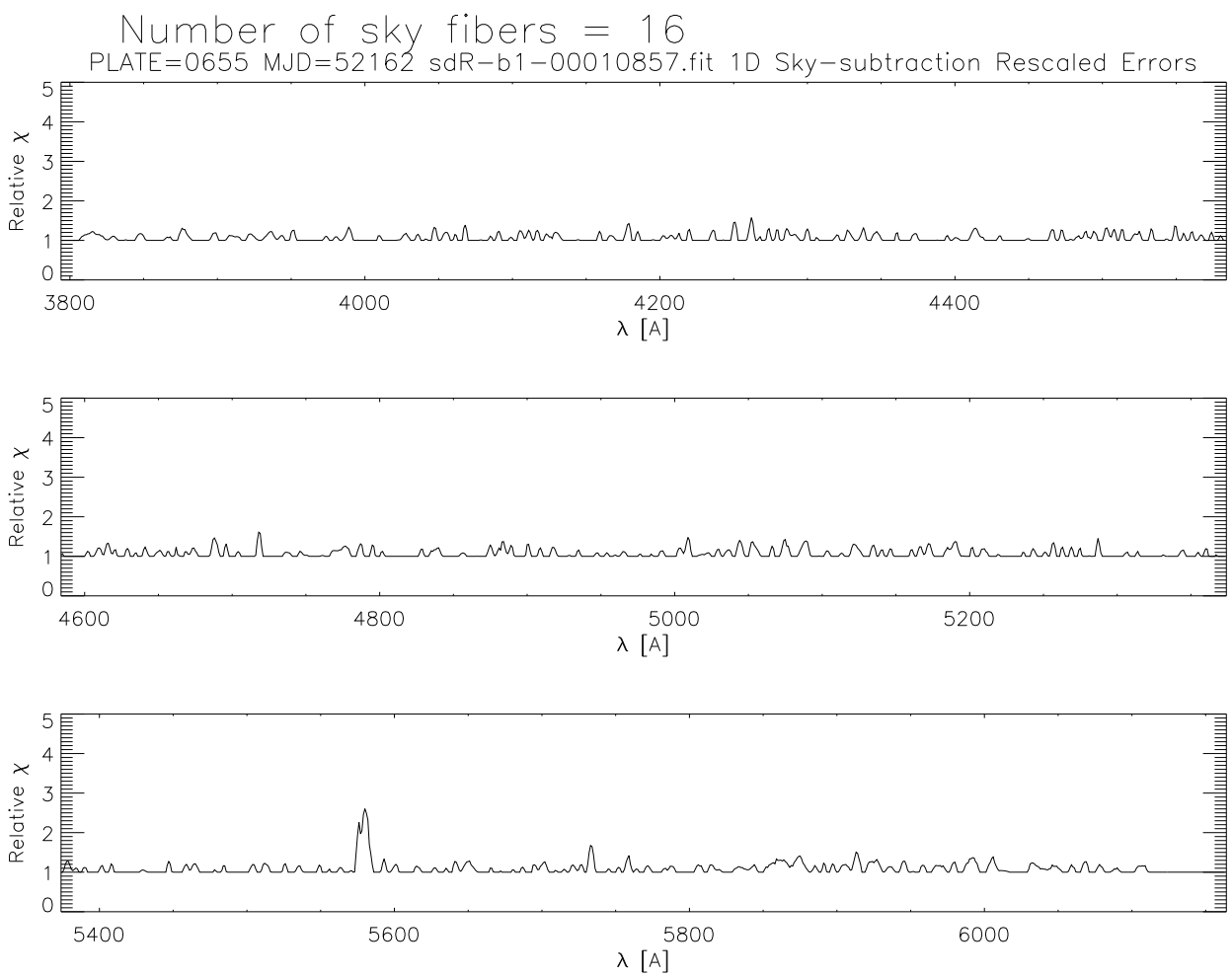

sky shift, pixels
0.20
0.15
0.10
0.05
0.00
−0.05
3500
4000
4500
5000
5500
6000
6500

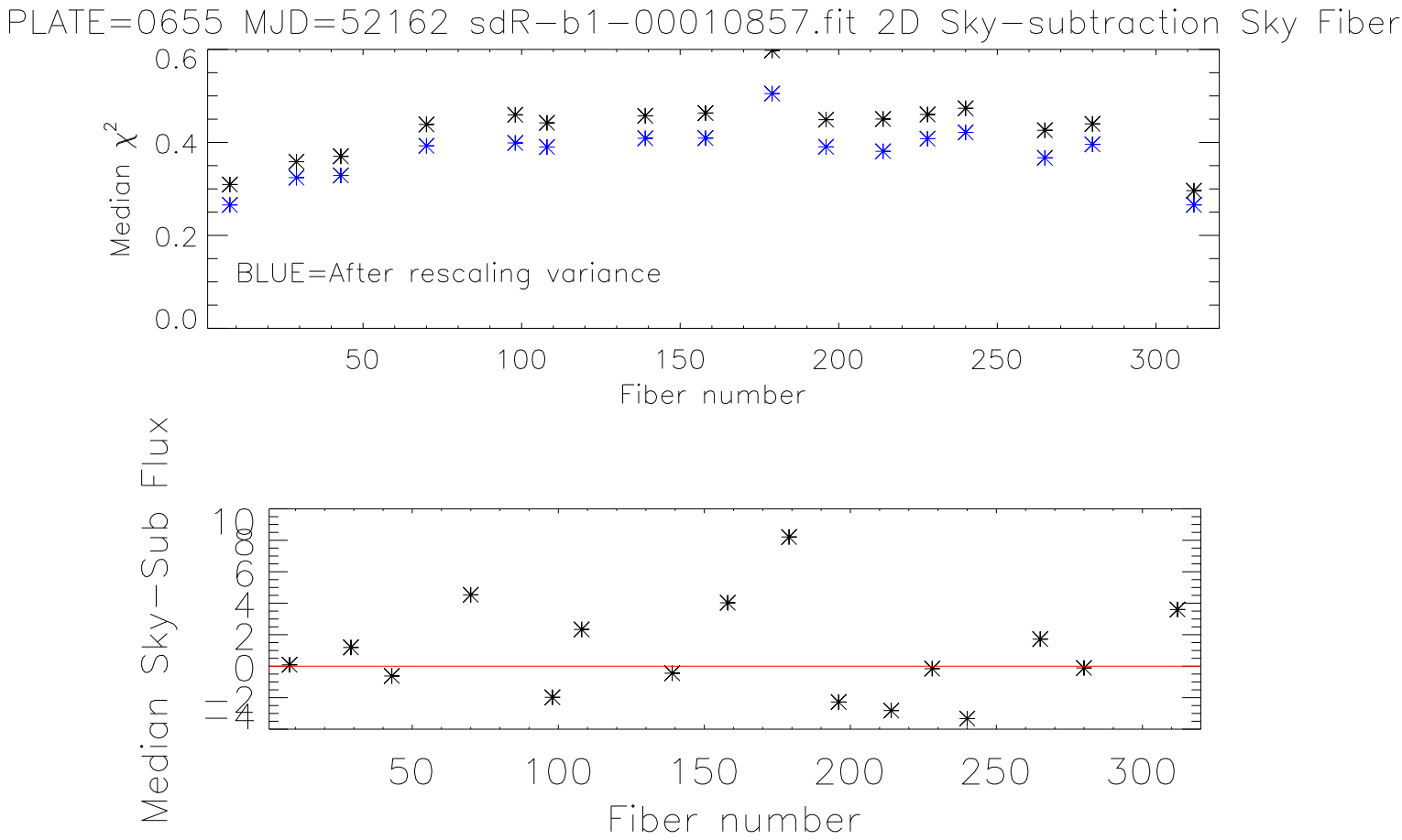

PLATE=0655 MJD=52162 Smooth superflat for sdR-b1-00010857.fit
1.5
1.0
0.5
0.0
1.010
es= −0.0000
1.005
1.000
0.995
0.990
0.985
4000
4500
5000
5500
6000
Wavelength (Å)

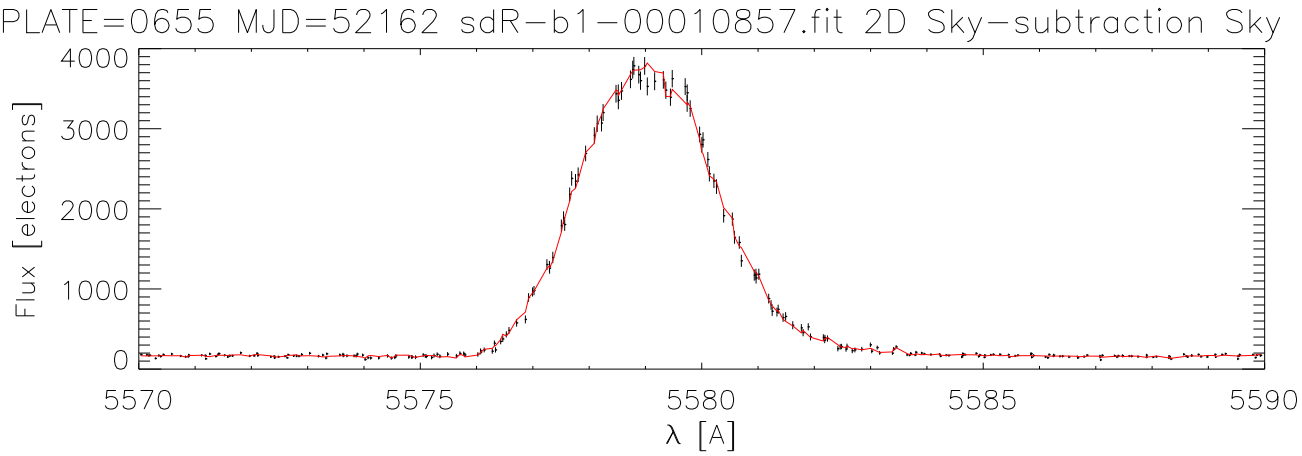

PLATE=0655 MJD=52162 sdR-b1-00010857.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-10
-8
-6
-4
-2
0
2
4
6
8
10
50
100
150
200
250
300
Fiber number

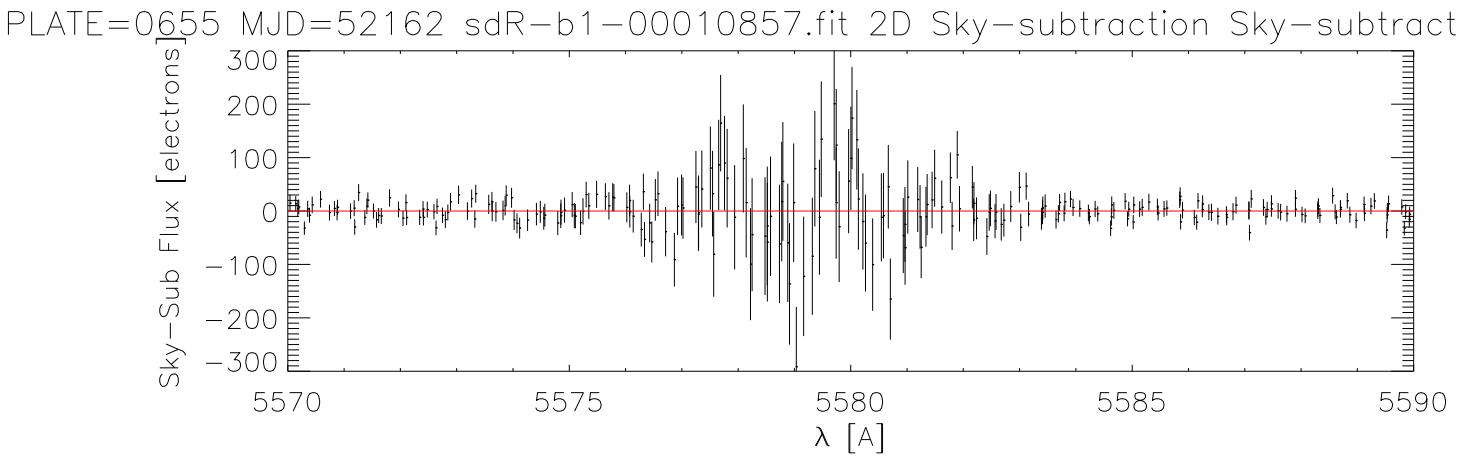

PLATE=0655 MJD=52162 sdR-b1-00010857.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

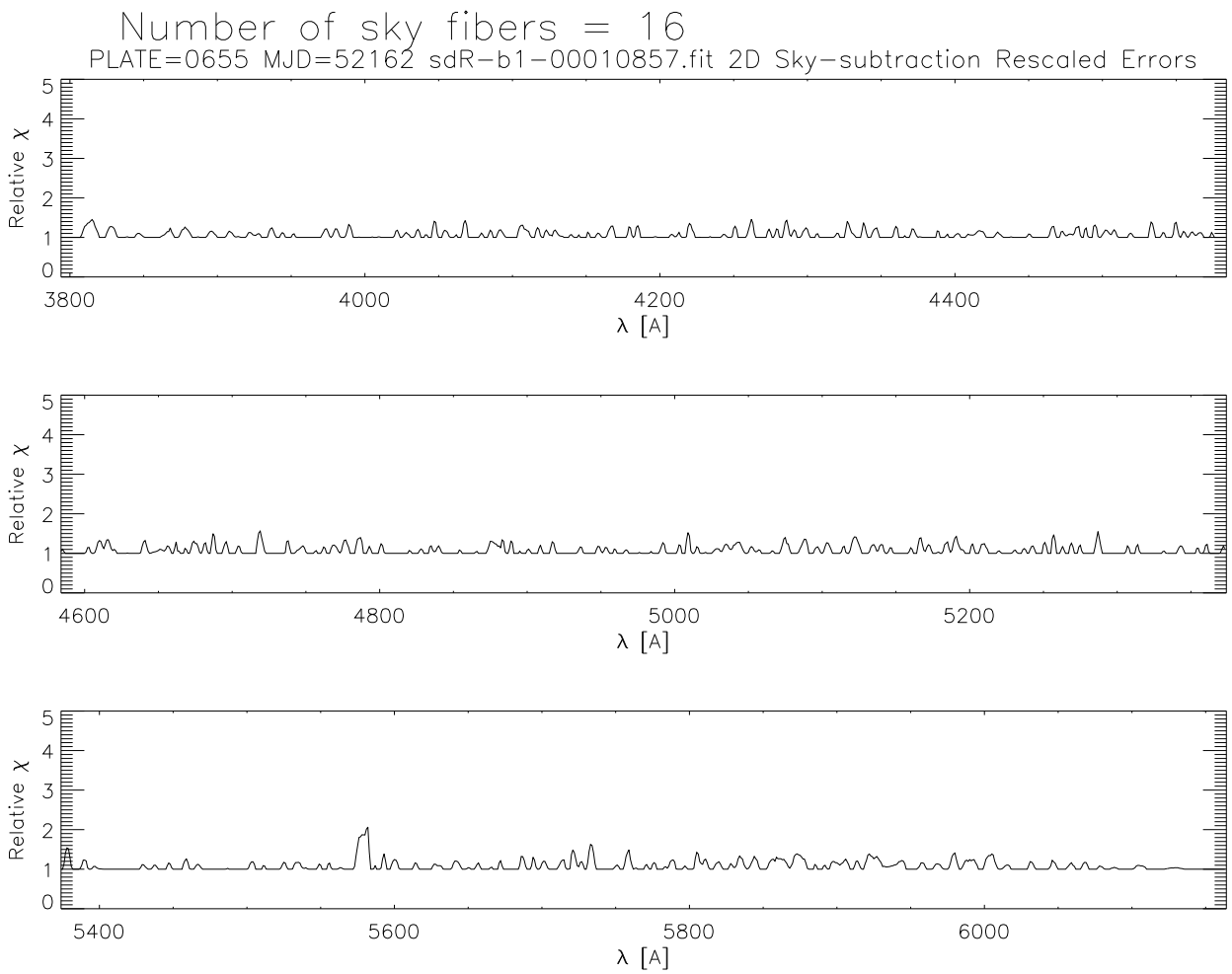

PLATE=0655 MJD=52162 sdR-b1-00010857.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

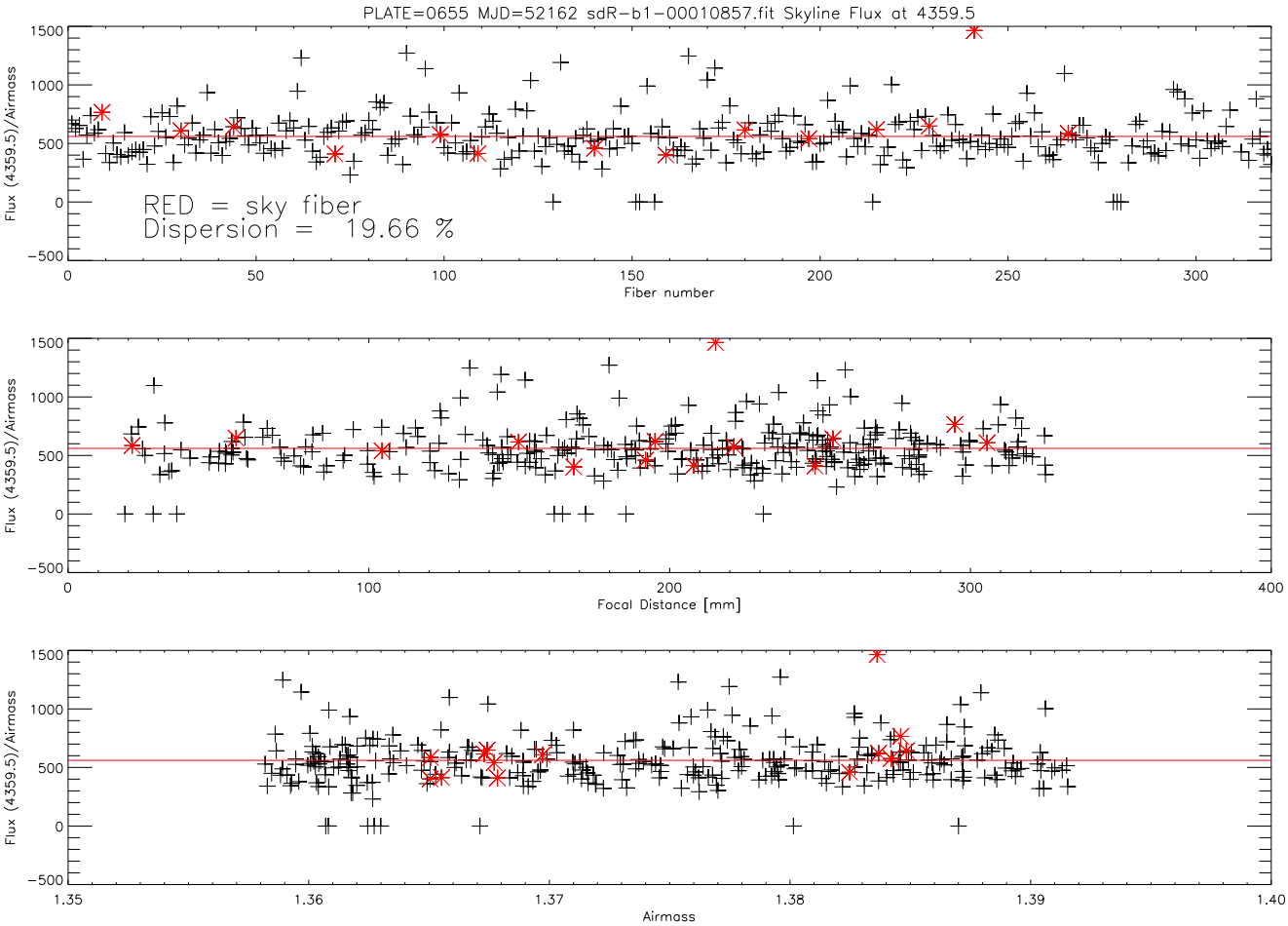

Number of sky fibers = 16
PLATE=0655 MJD=52162 sdR-b1-00010857.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

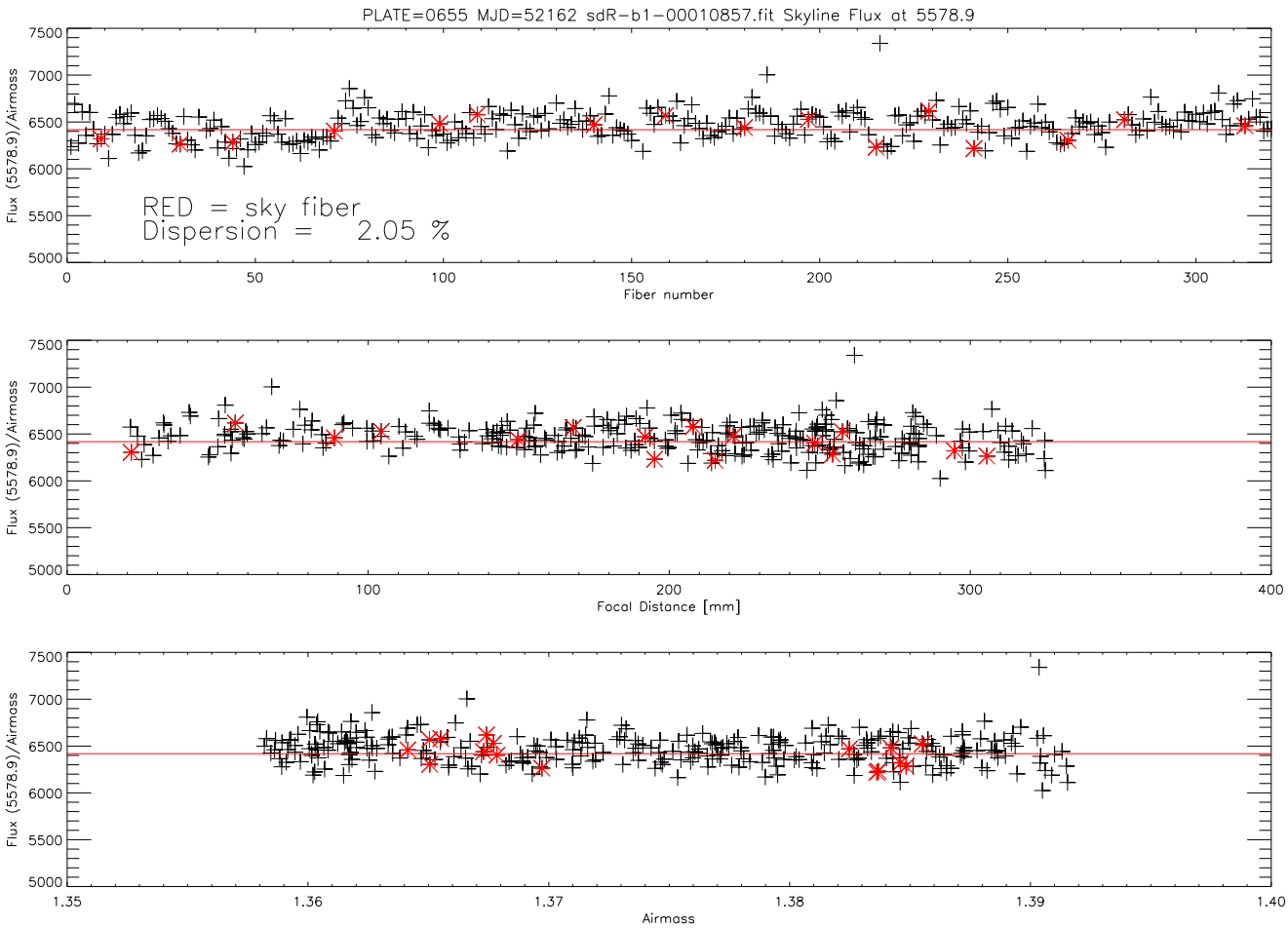

PLATE=0655 MJD=52162 sdR-b1-00010857.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-10
-8
-6
-4
-2
0
2
4
6
8
10
50
100
150
200
250
300
Fiber number

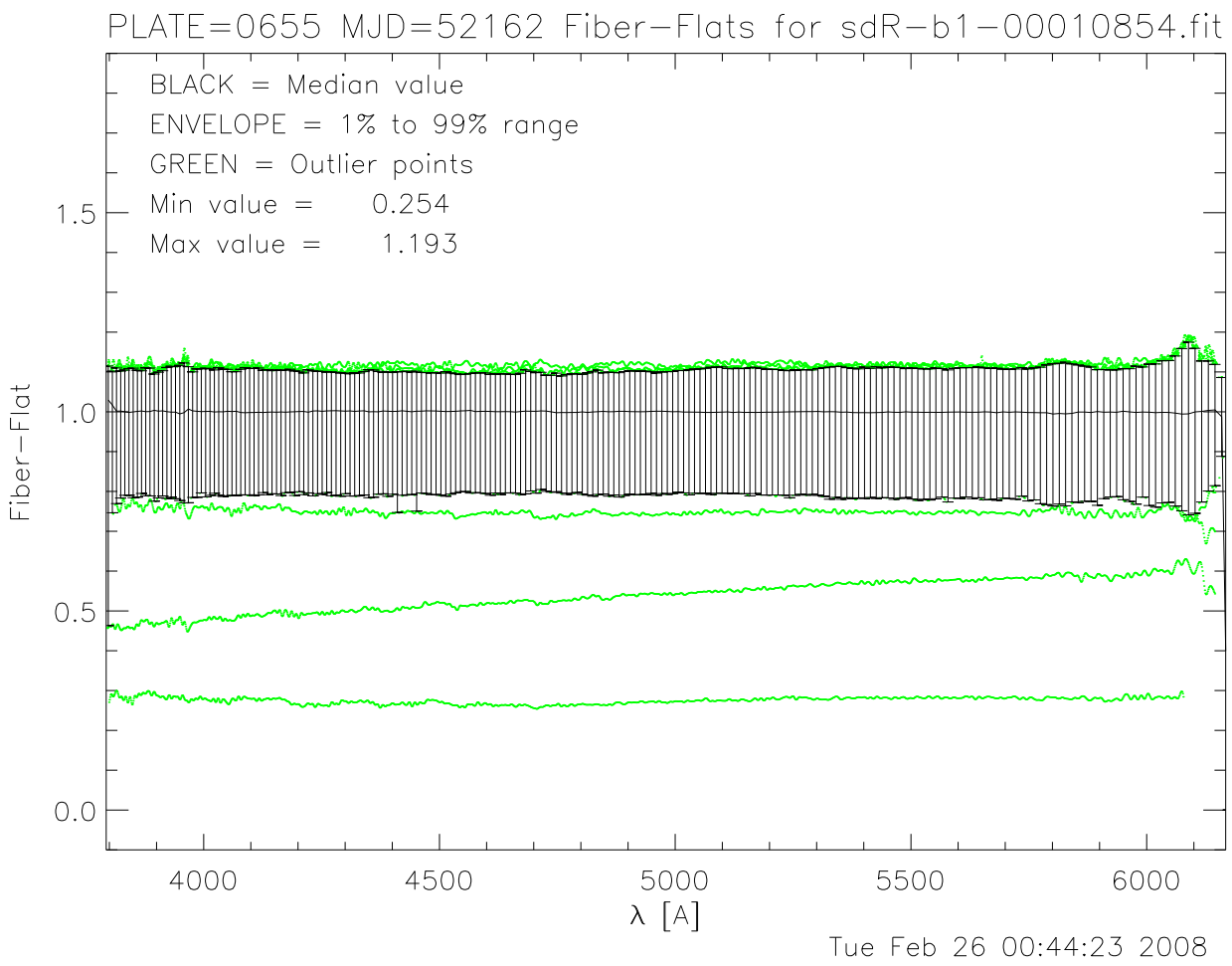

PLATE=0655 MJD=52162 sdR-b1-00010857.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

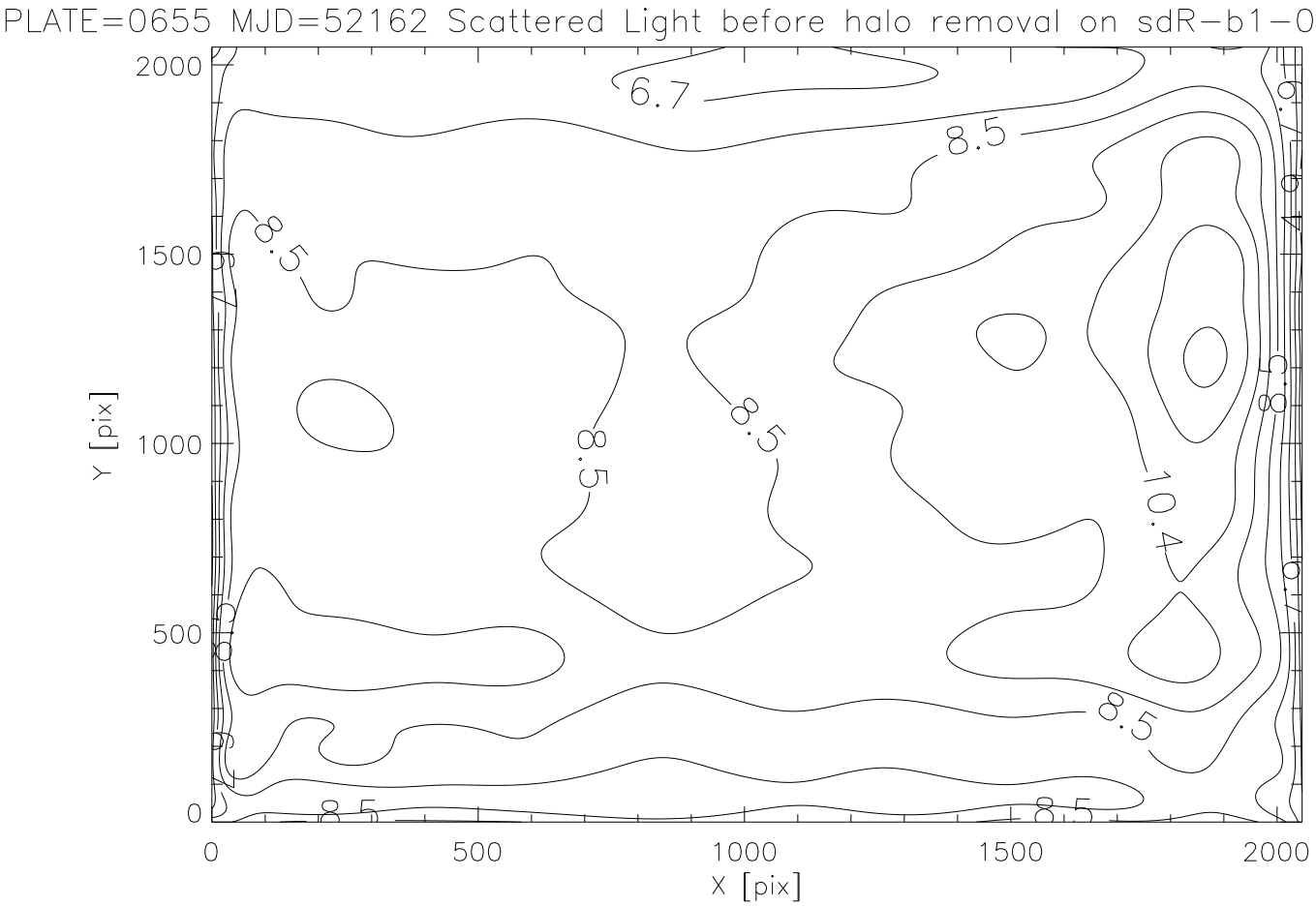

PLATE=0655 MJD=52162 sdR-b1-00010857.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

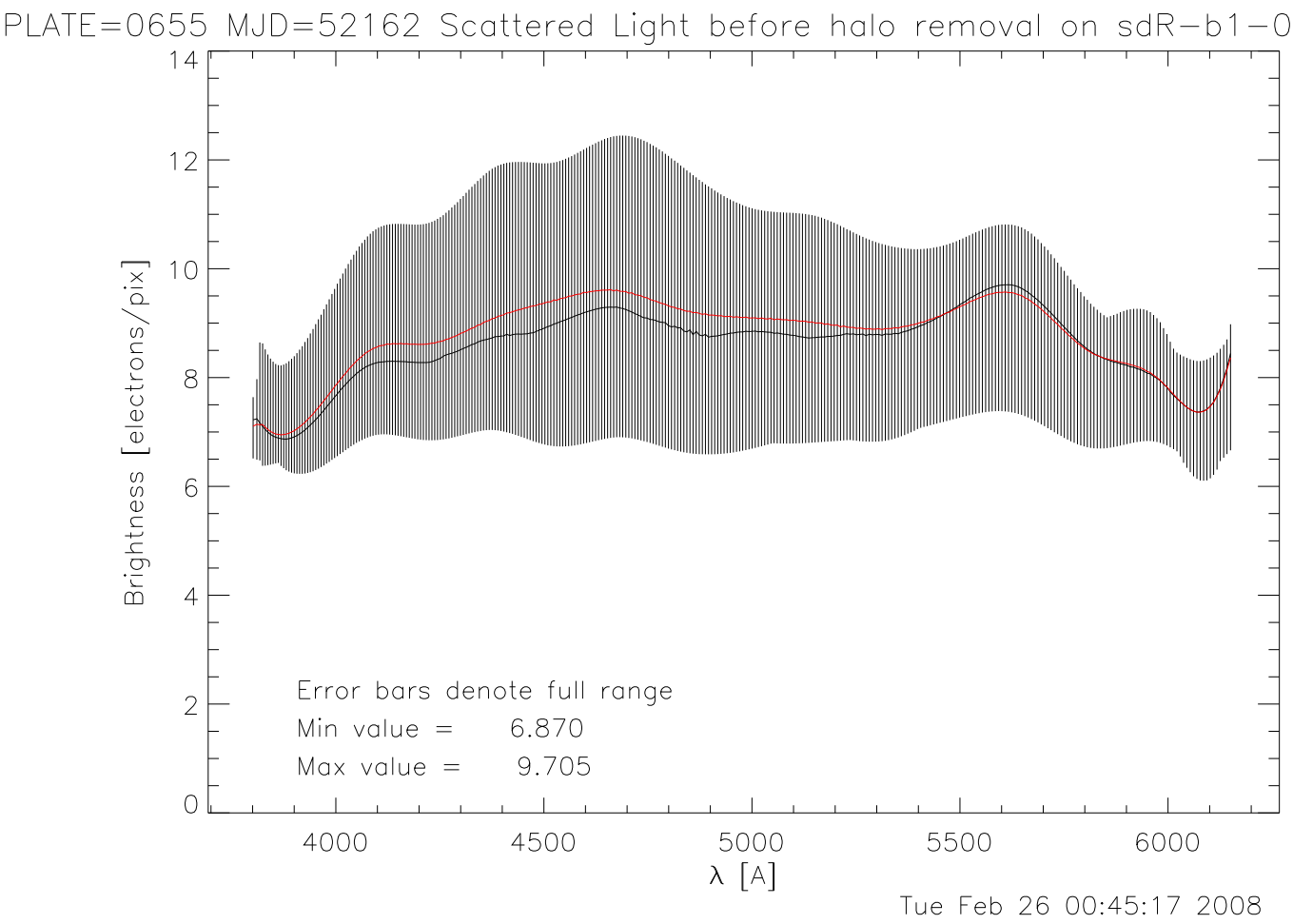

Number of sky fibers = 16
PLATE=0655 MJD=52162 sdR-b1-00010857.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

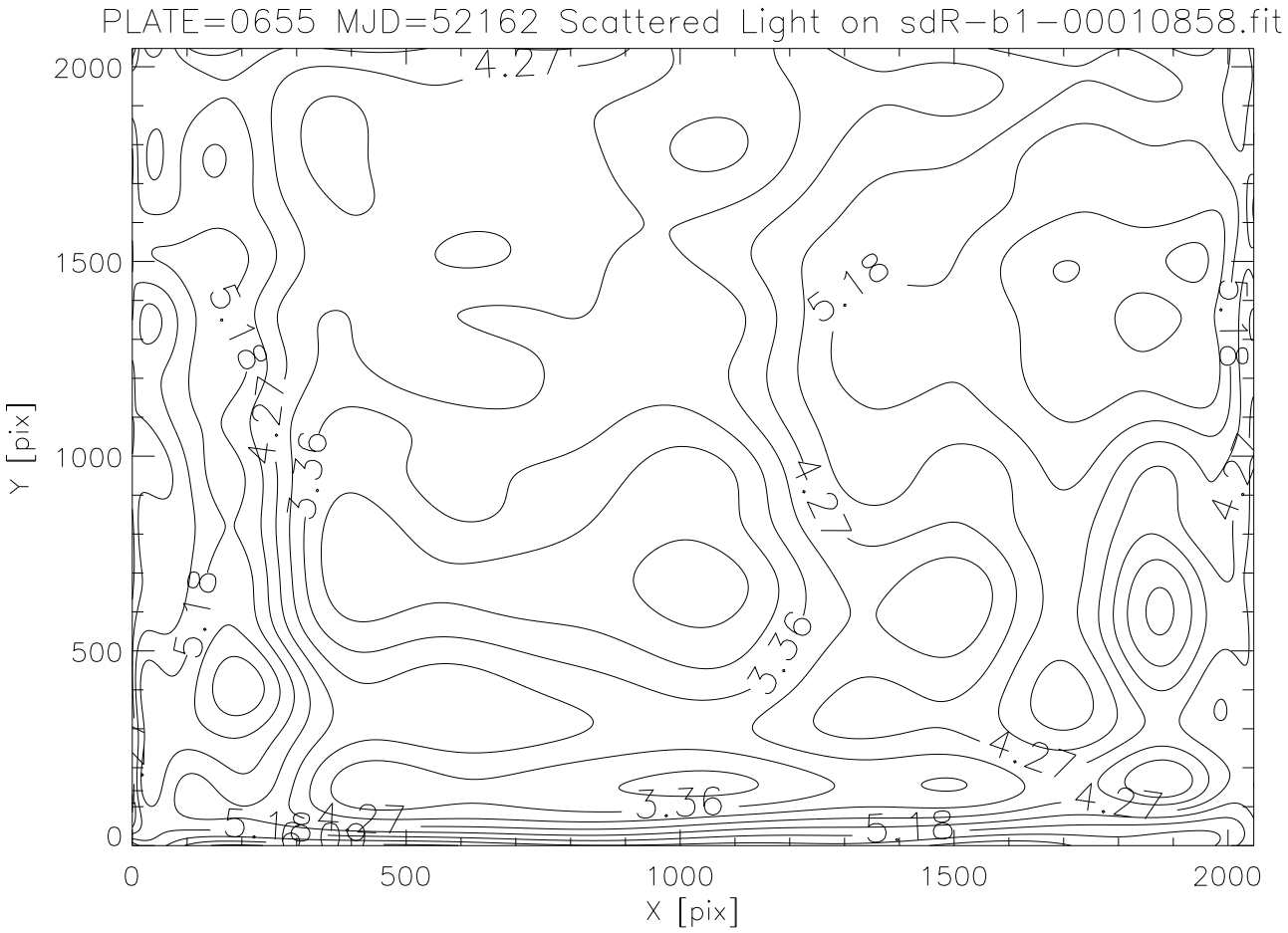

PLATE=0655 MJD=52162 sdR-b1-00010857.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 19.66 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

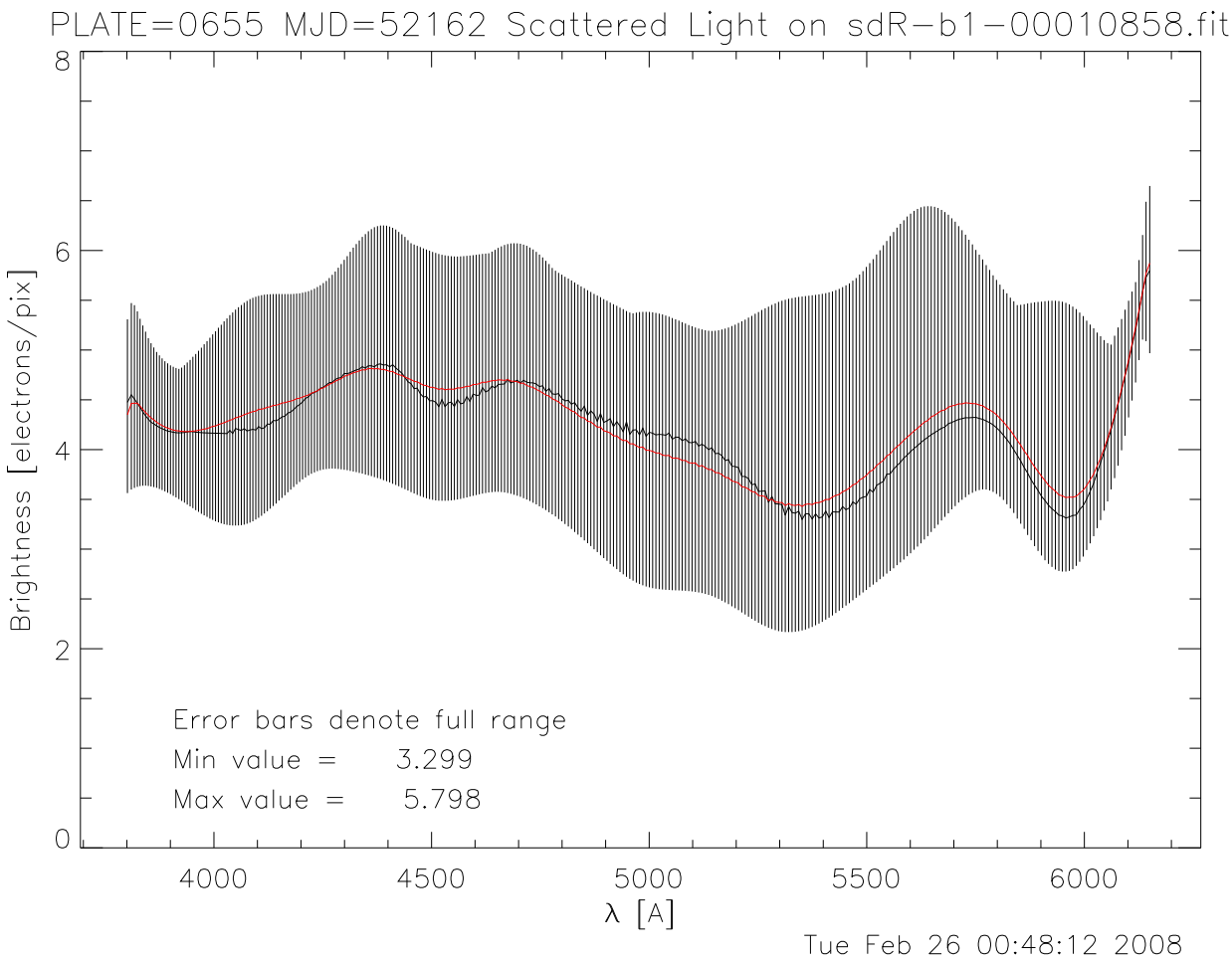

PLATE=0655 MJD=52162 sdR-b1-00010857.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.05 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

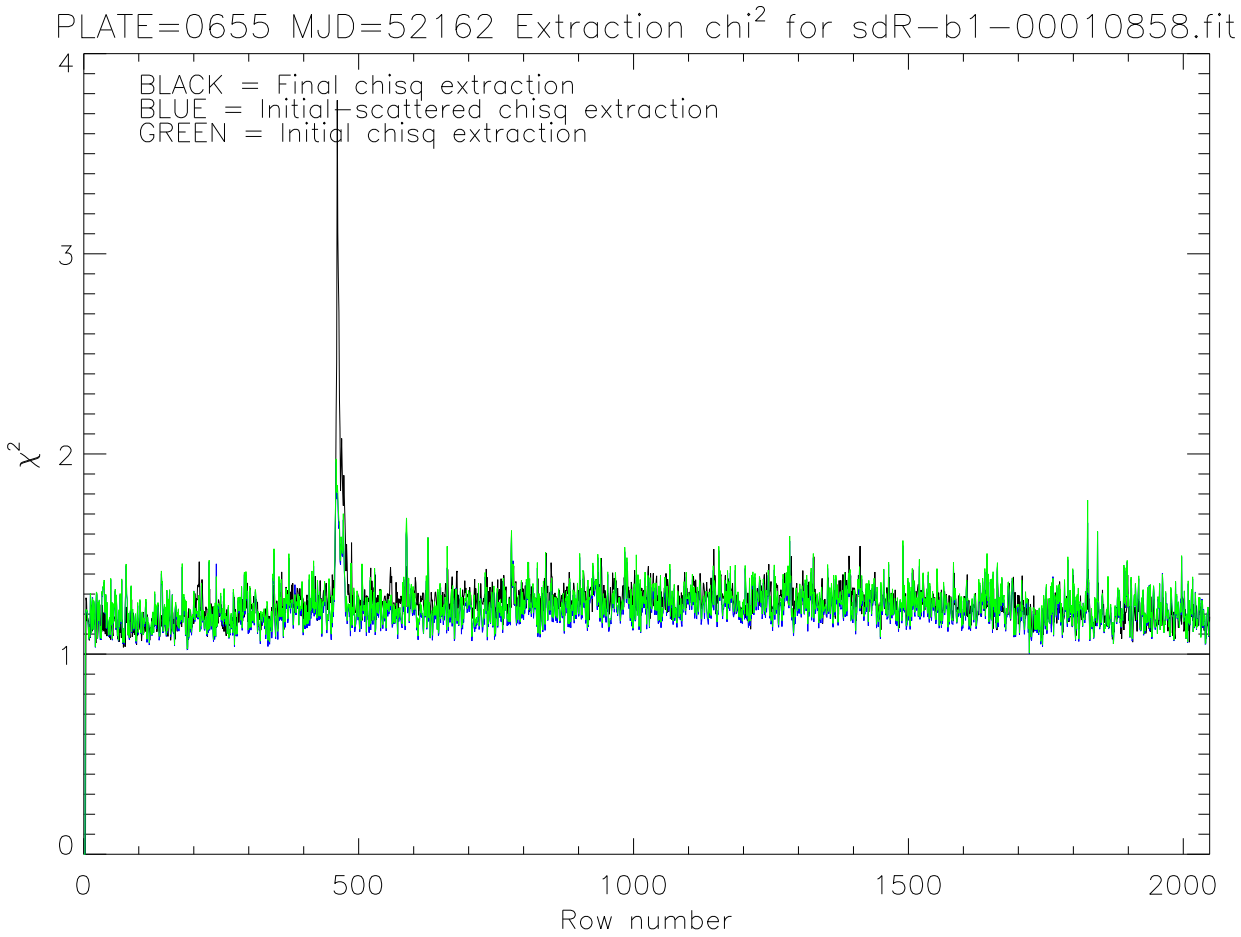

PLATE=0655 MJD=52162 Fiber-Flats for sdR-b1-00010854.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.254
Max value = 1.193
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 00:44:23 2008

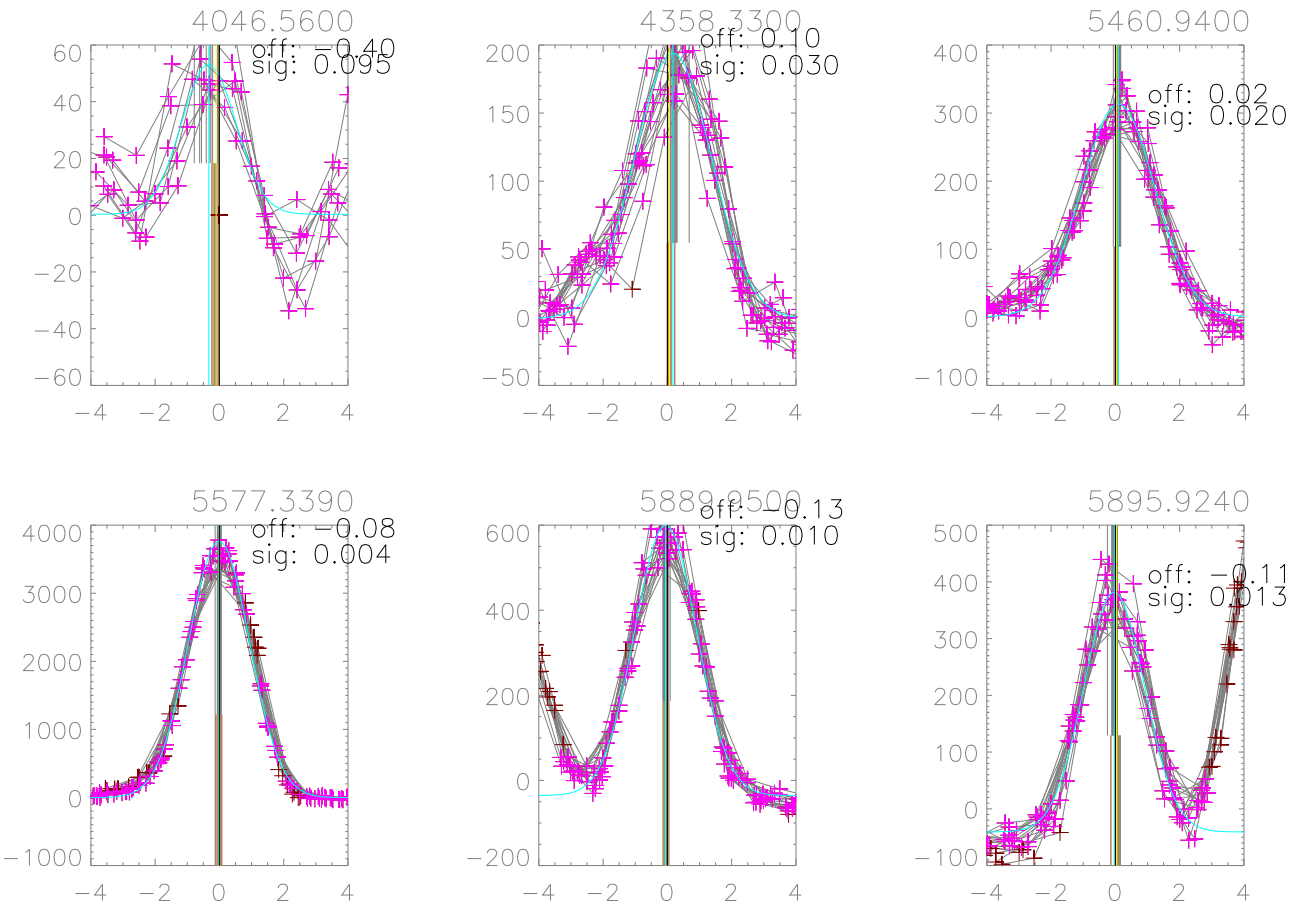

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-b1-00010858.f
6.7
8.5
10.4
Y [pix]
X [pix]
0
500
1000
1500
2000

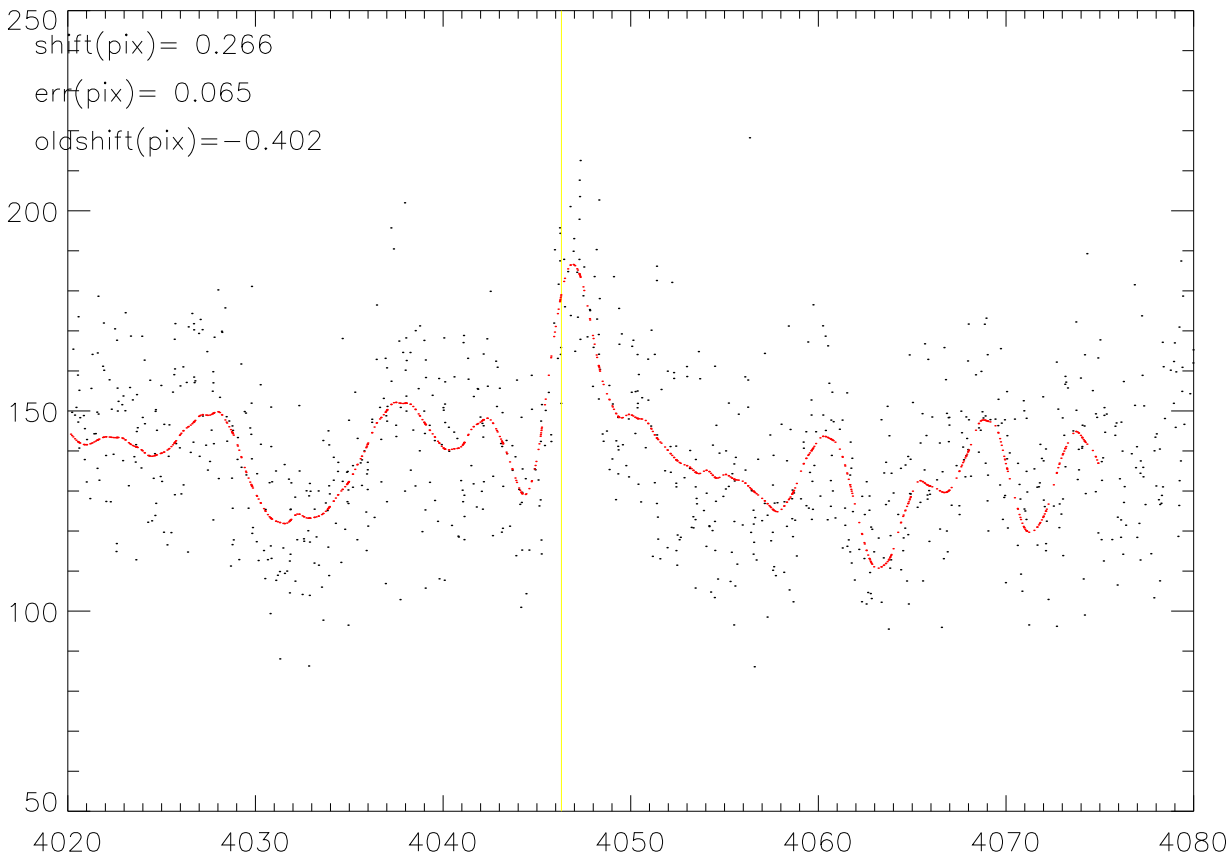

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-b1-00010858.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.870
Max value = 9.705
Tue Feb 26 00:45:17 2008

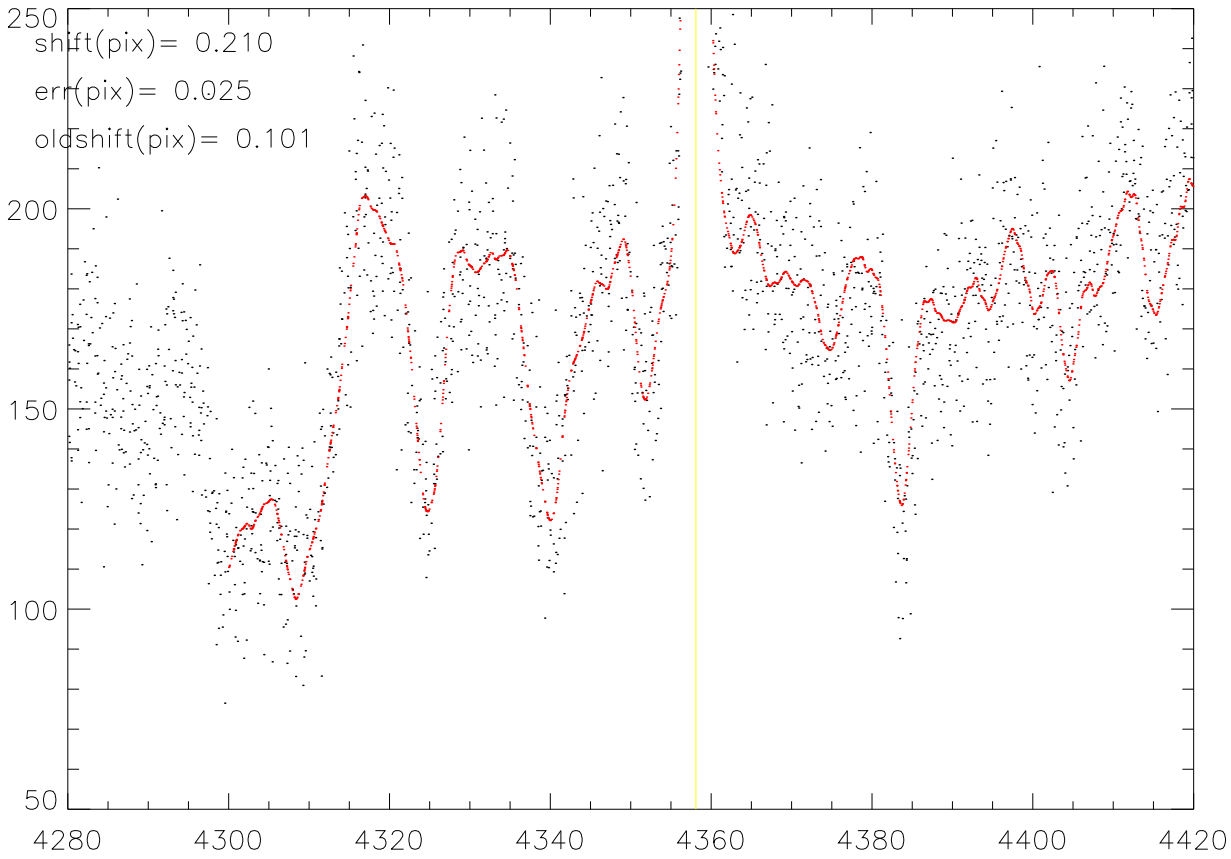

PLATE=0655 MJD=52162 Scattered Light on sdR-b1-00010858.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
4.27
5.18
3.36

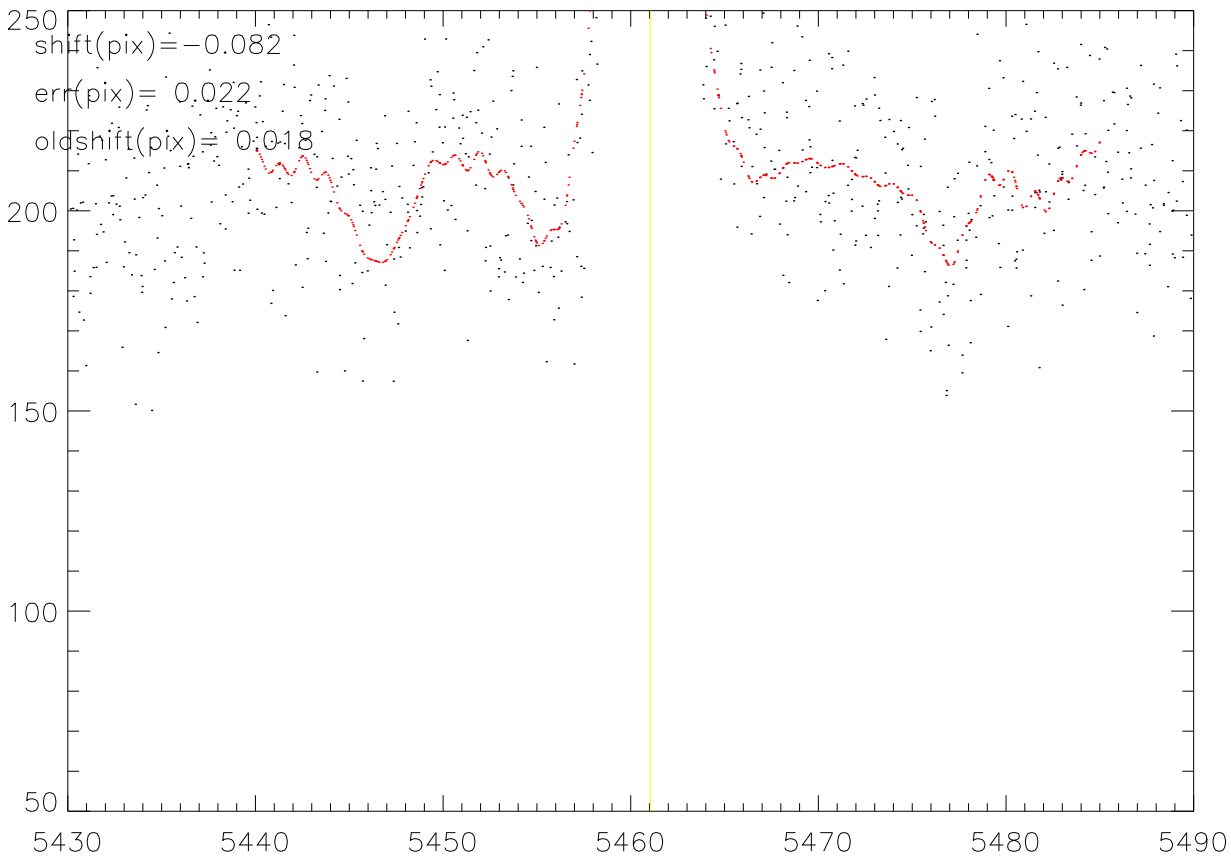

PLATE=0655 MJD=52162 Scattered Light on sdR-b1-00010858.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.299
Max value = 5.798
Tue Feb 26 00:48:12 2008

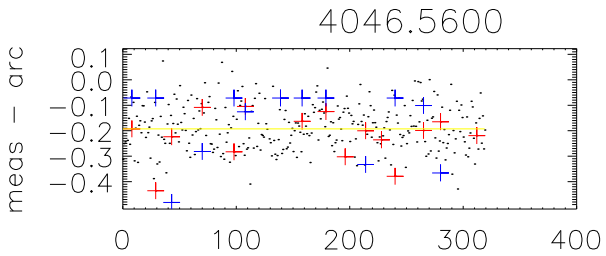

PLATE=0655 MJD=52162 Extraction chi^2 for sdR-b1-00010858.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

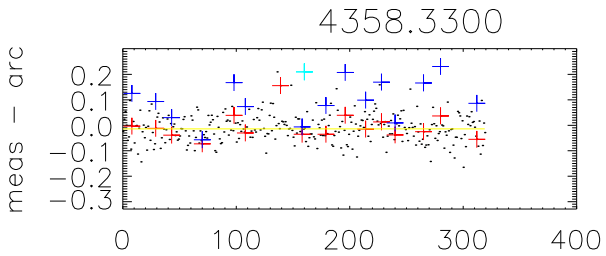

4046.5600
off: −0.40
sig: 0.095
4358.3300
off: 0.10
sig: 0.030
5460.9400
off: 0.02
sig: 0.020
5577.3390
off: −0.08
sig: 0.004
5889.9500
off: −0.13
sig: 0.010
5895.9240
off: −0.11
sig: 0.013

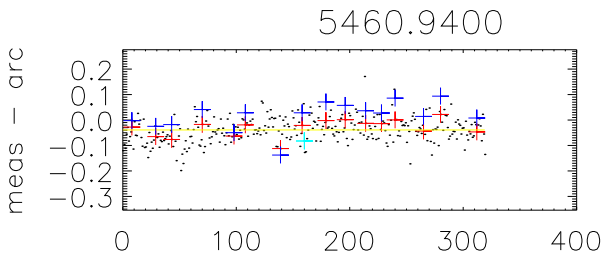

shift(pix)= 0.266
err(pix)= 0.065
oldshift(pix)=−0.402
250
200
150
100
50
4020
4030
4040
4050
4060
4070
4080

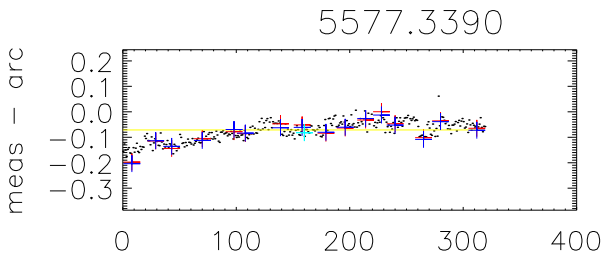

shift(pix)= 0.210
err(pix)= 0.025
oldshift(pix)= 0.101
250
200
150
100
50
4280
4300
4320
4340
4360
4380
4400
4420

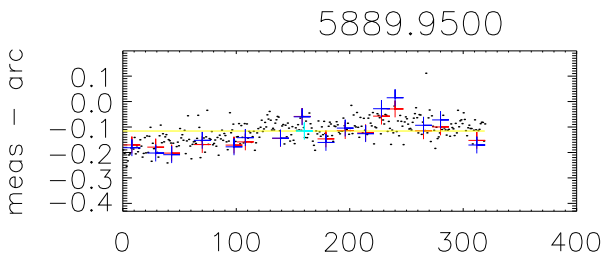

shift(pix)=−0.082
err(pix)= 0.022
oldshift(pix)= 0.018
250
200
150
100
50
5430
5440
5450
5460
5470
5480
5490

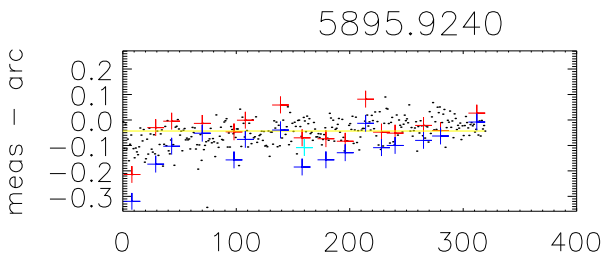

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

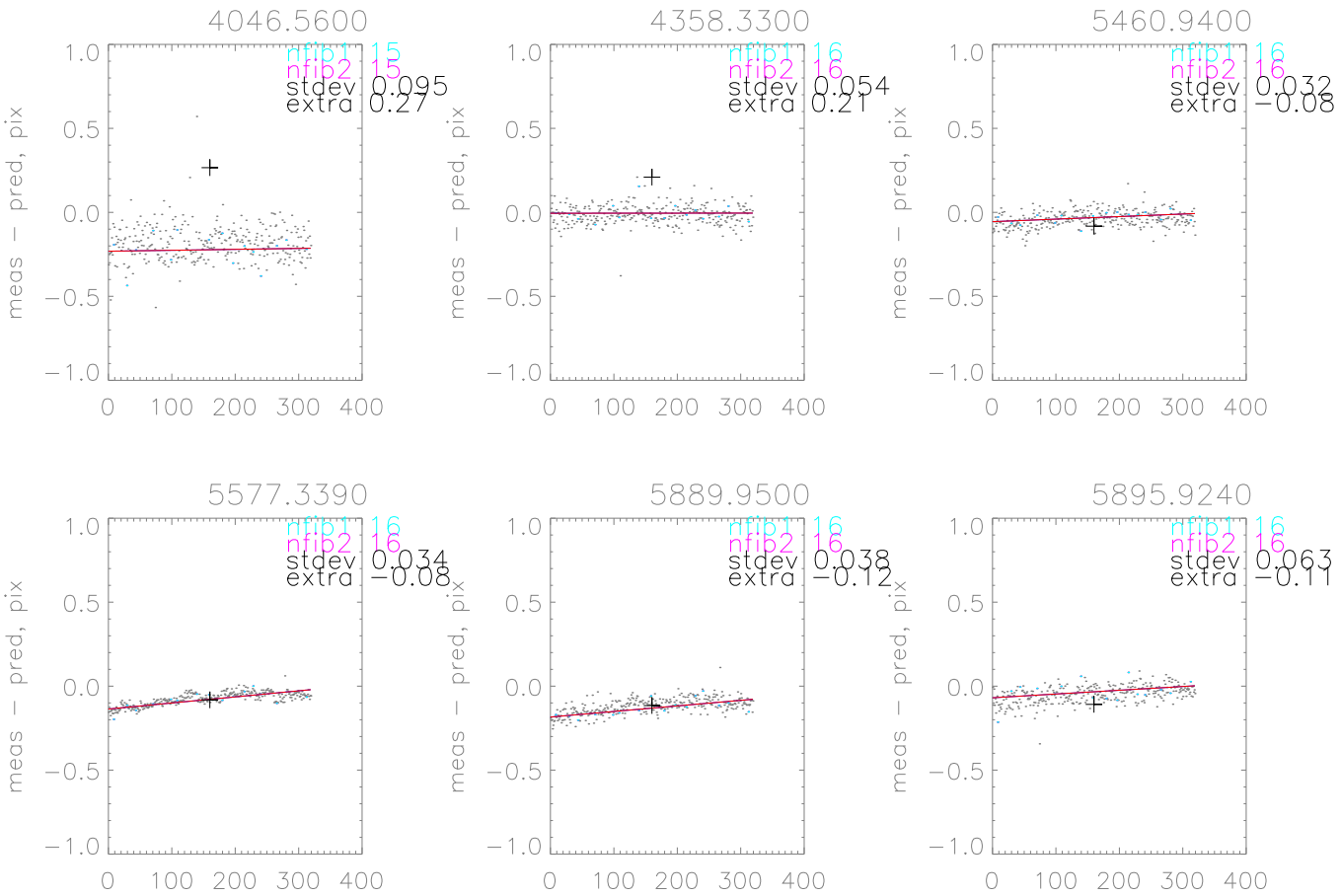

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

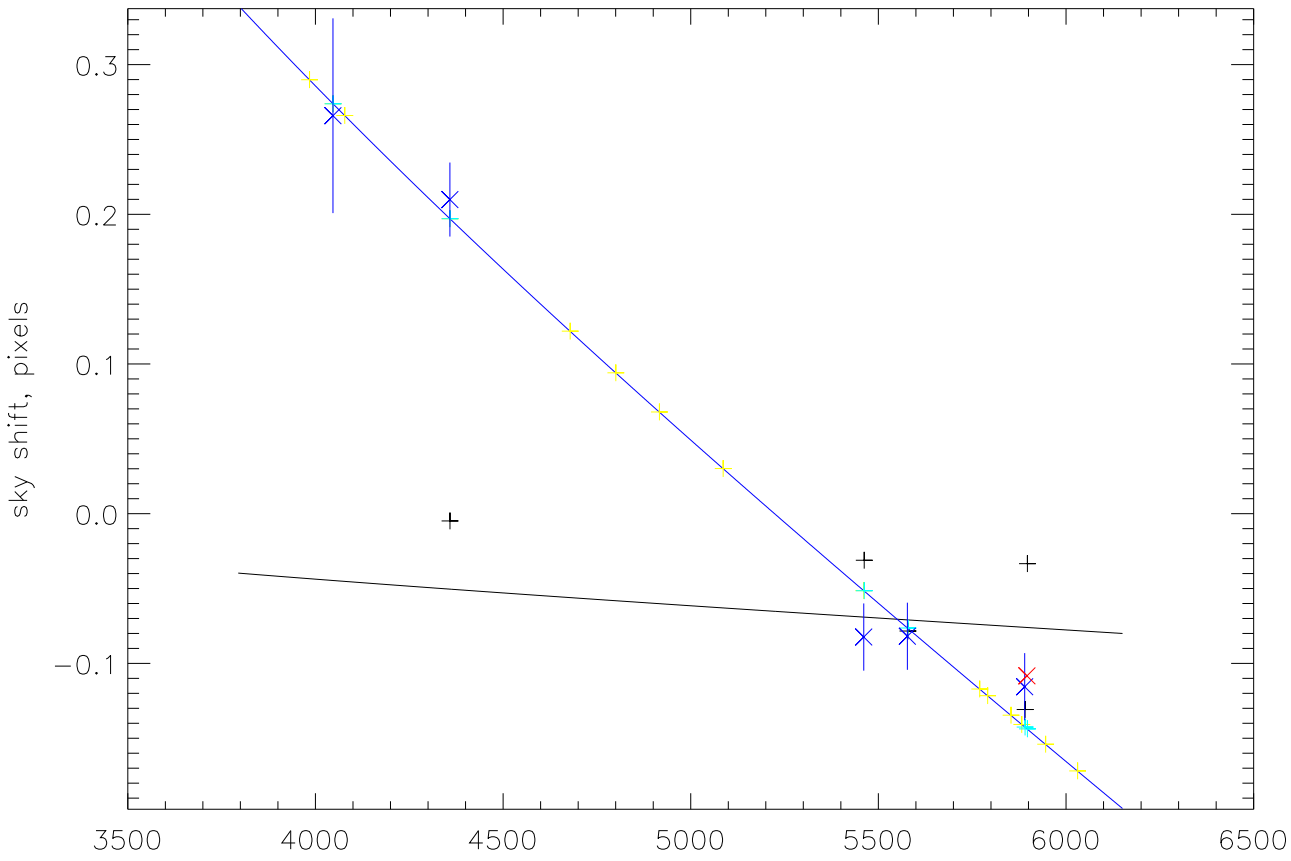

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

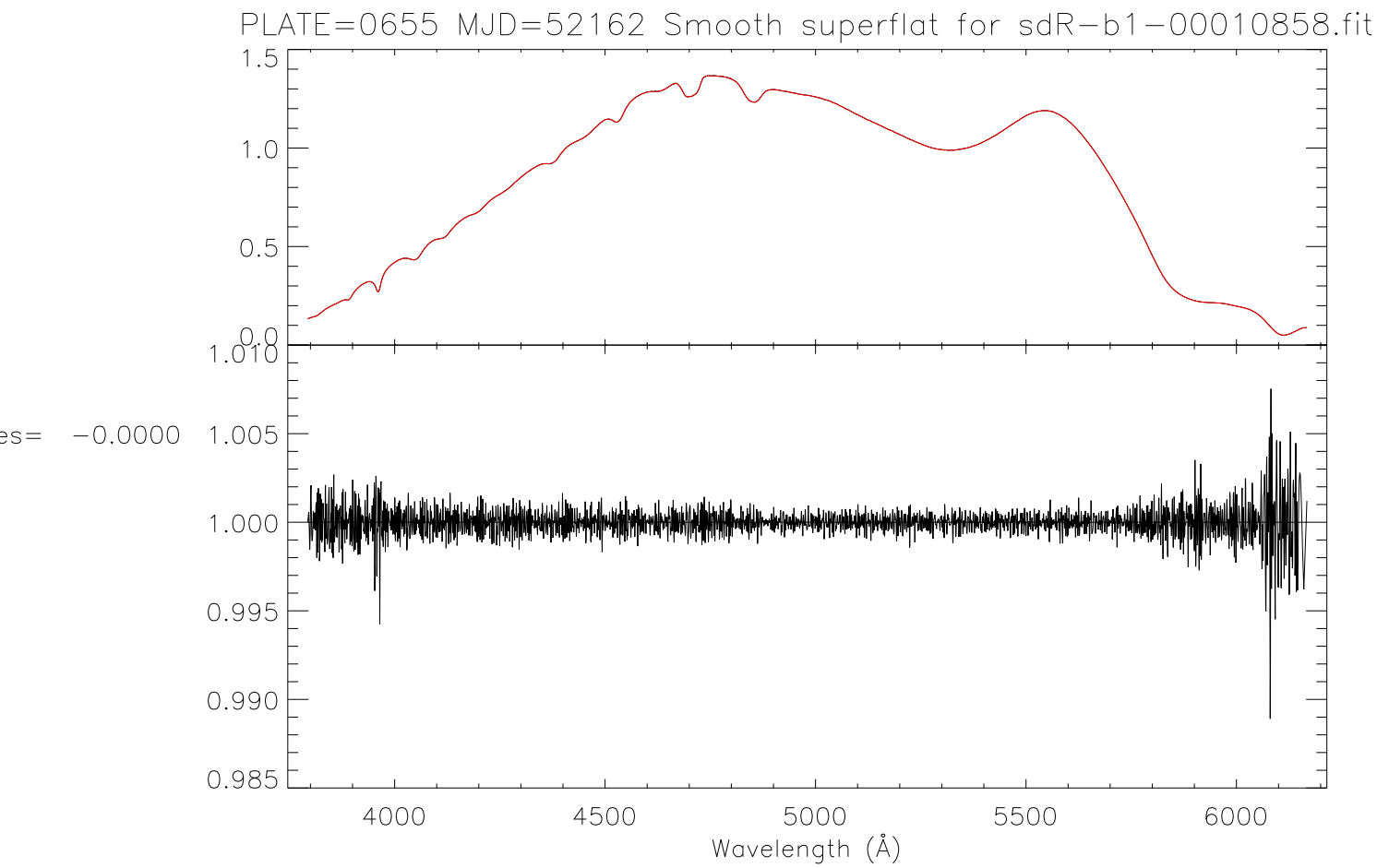

5577.3390
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

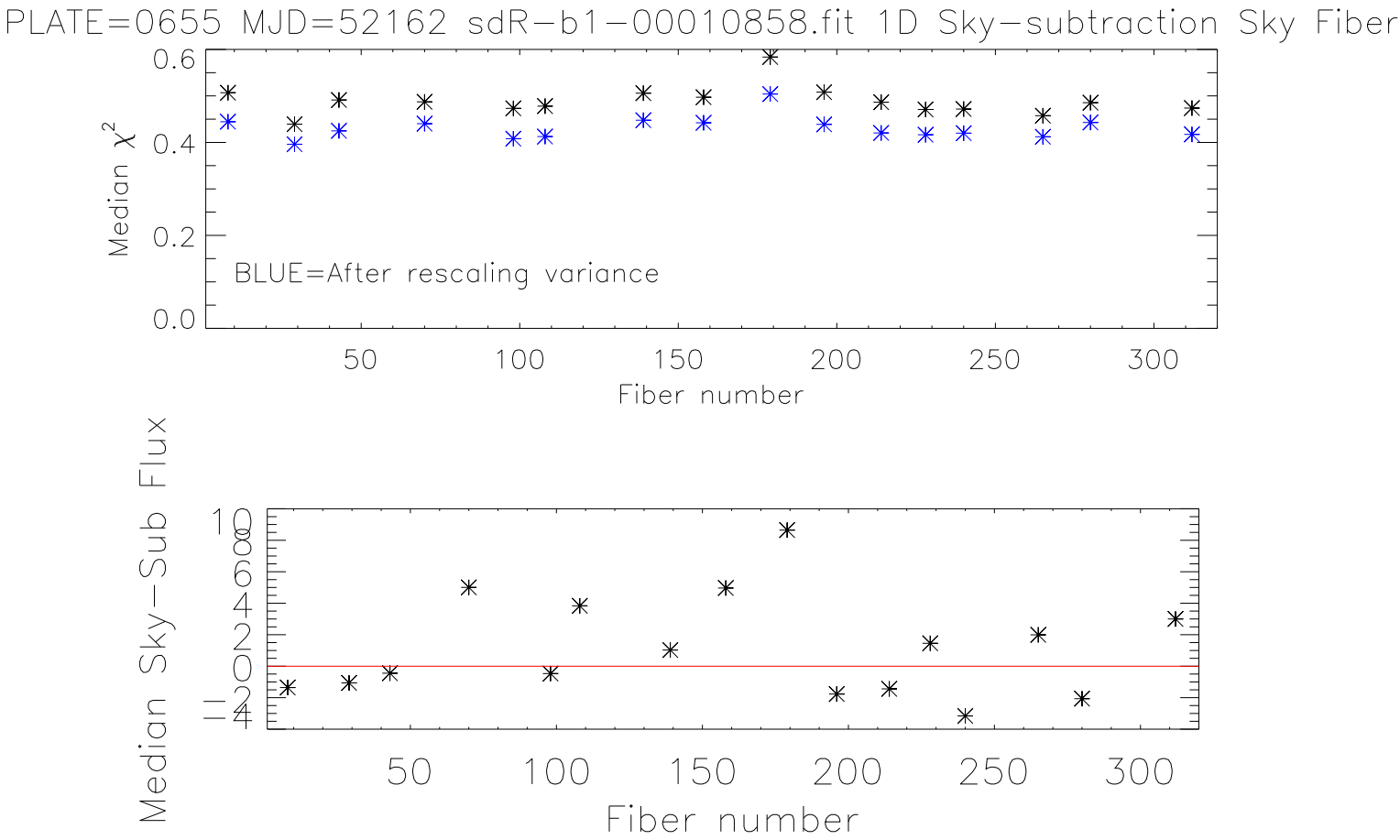

5889.9500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

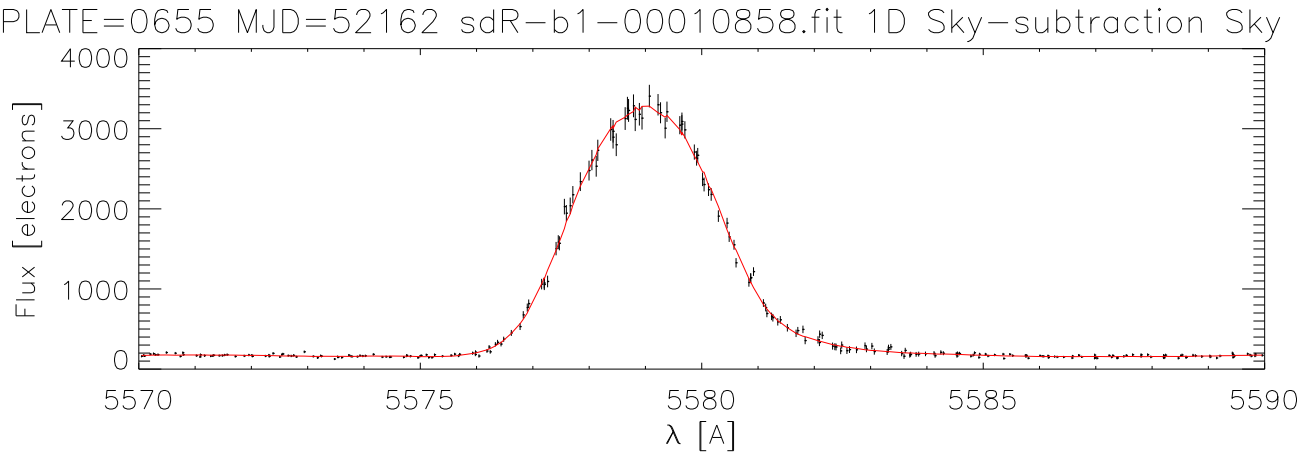

5895.9240
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

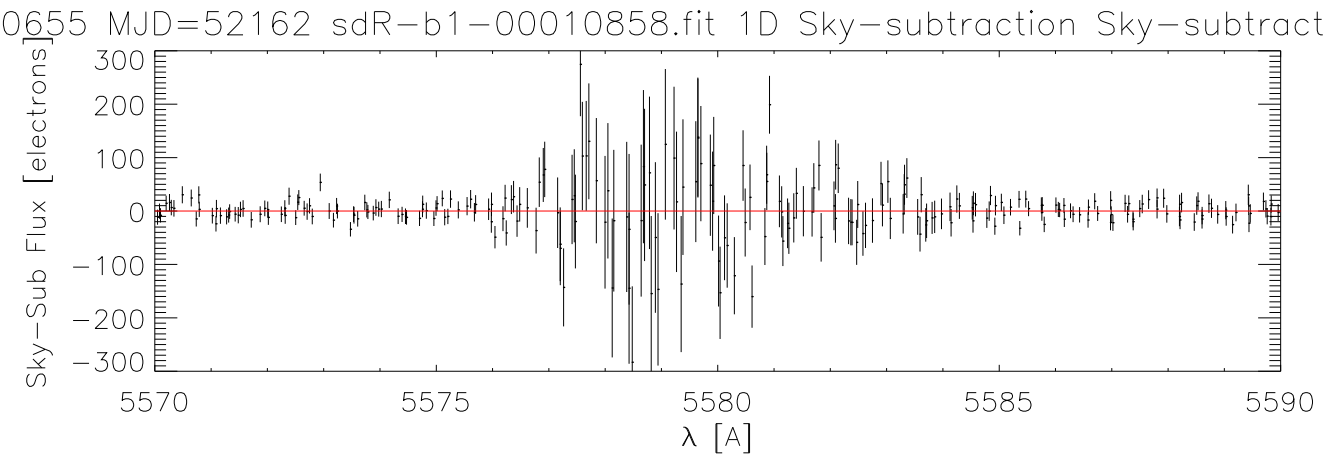

4046.5600
nfib1 15
nfib2 15
stdev 0.095
extra 0.27
4358.3300
nfib1 16
nfib2 16
stdev 0.054
extra 0.21
5460.9400
nfib1 16
nfib2 16
stdev 0.032
extra −0.08
5577.3390
nfib1 16
nfib2 16
stdev 0.034
extra −0.08
5889.9500
nfib1 16
nfib2 16
stdev 0.038
extra −0.12
5895.9240
nfib1 16
nfib2 16
stdev 0.063
extra −0.11
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

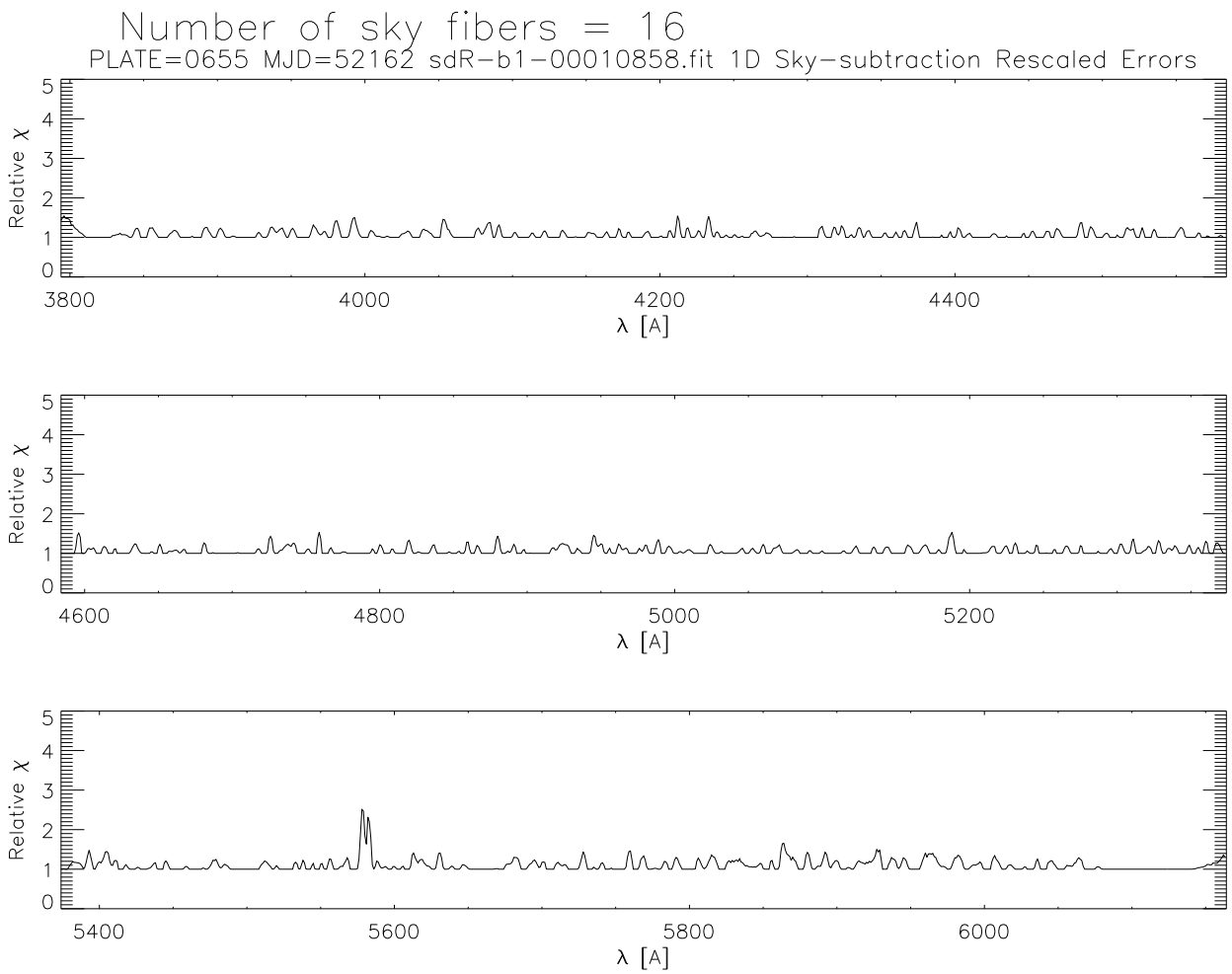

sky shift, pixels
0.3
0.2
0.1
0.0
−0.1
3500
4000
4500
5000
5500
6000
6500

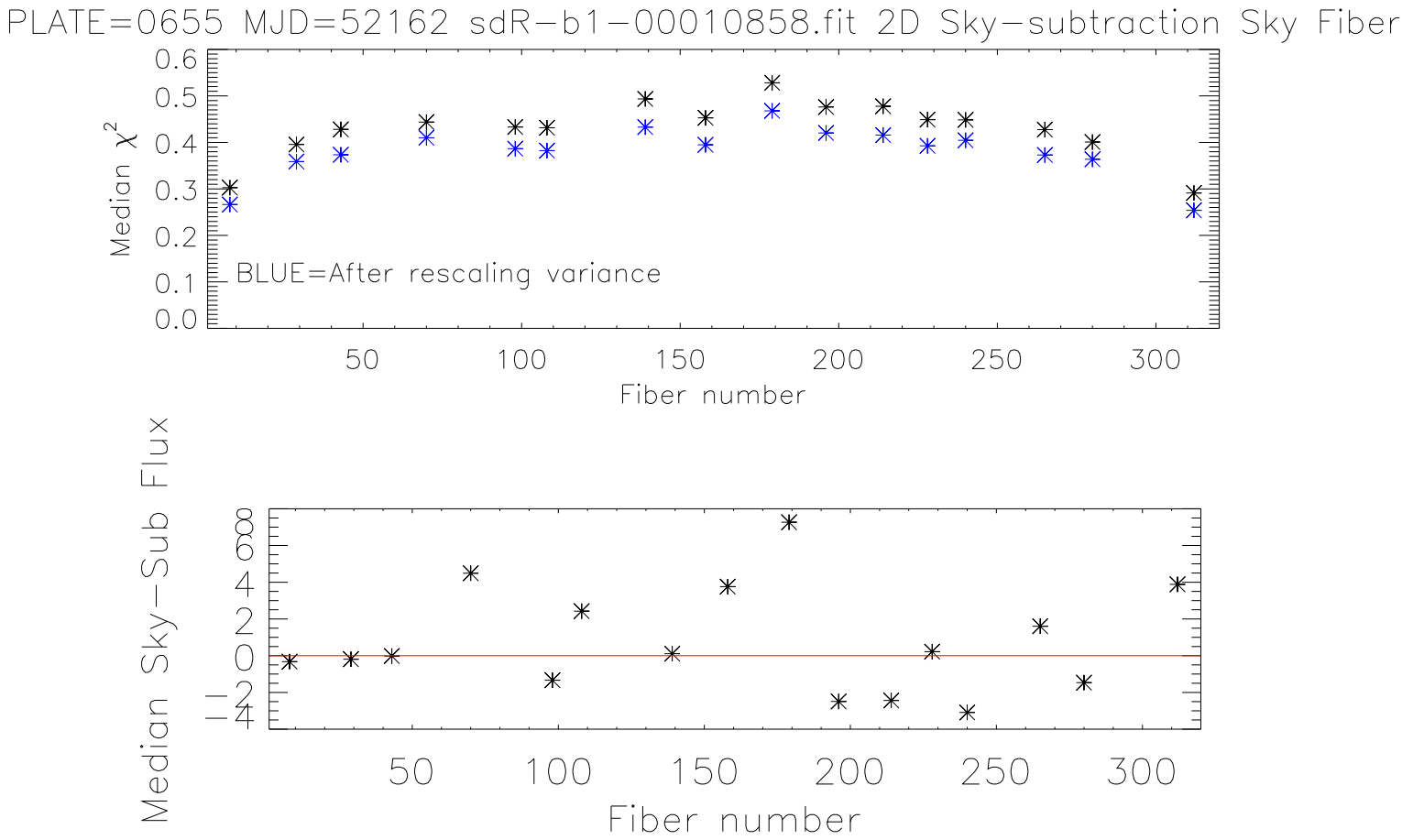

PLATE=0655 MJD=52162 Smooth superflat for sdR-b1-00010858.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

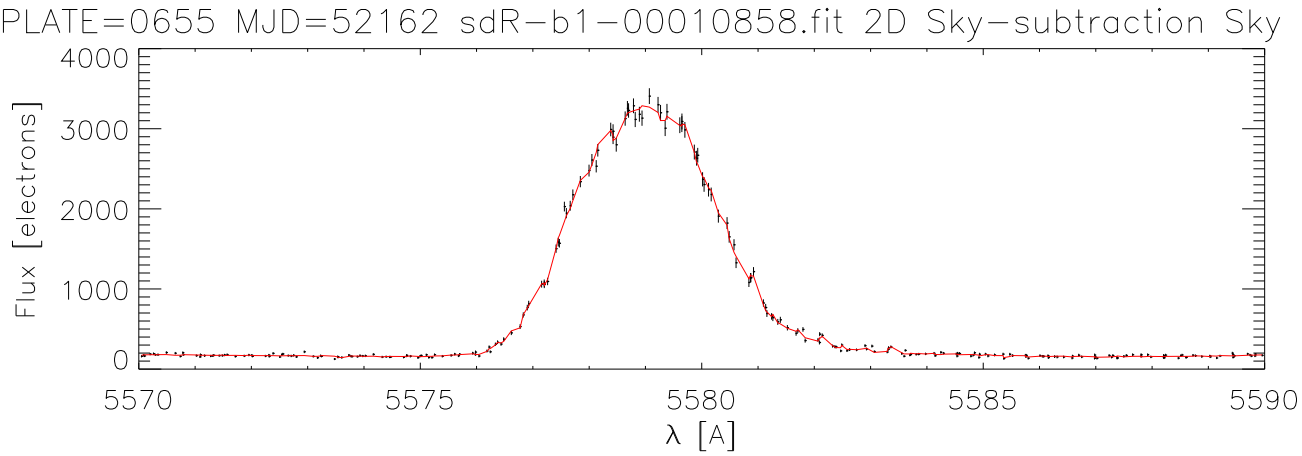

PLATE=0655 MJD=52162 sdR-b1-00010858.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-10
-8
-6
-4
-2
0
2
4
6
8
10
50
100
150
200
250
300
Fiber number

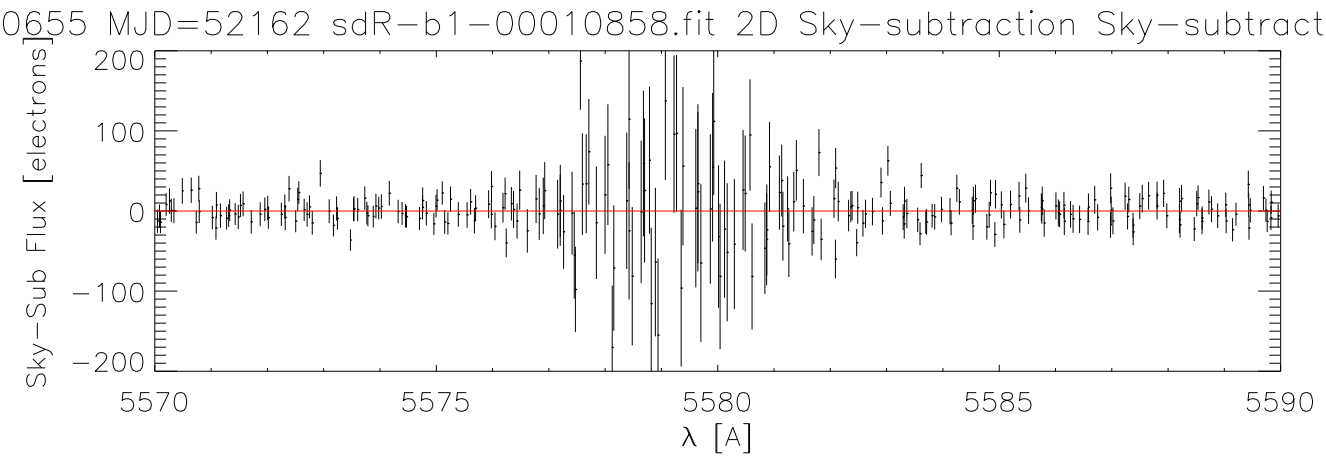

PLATE=0655 MJD=52162 sdR-b1-00010858.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

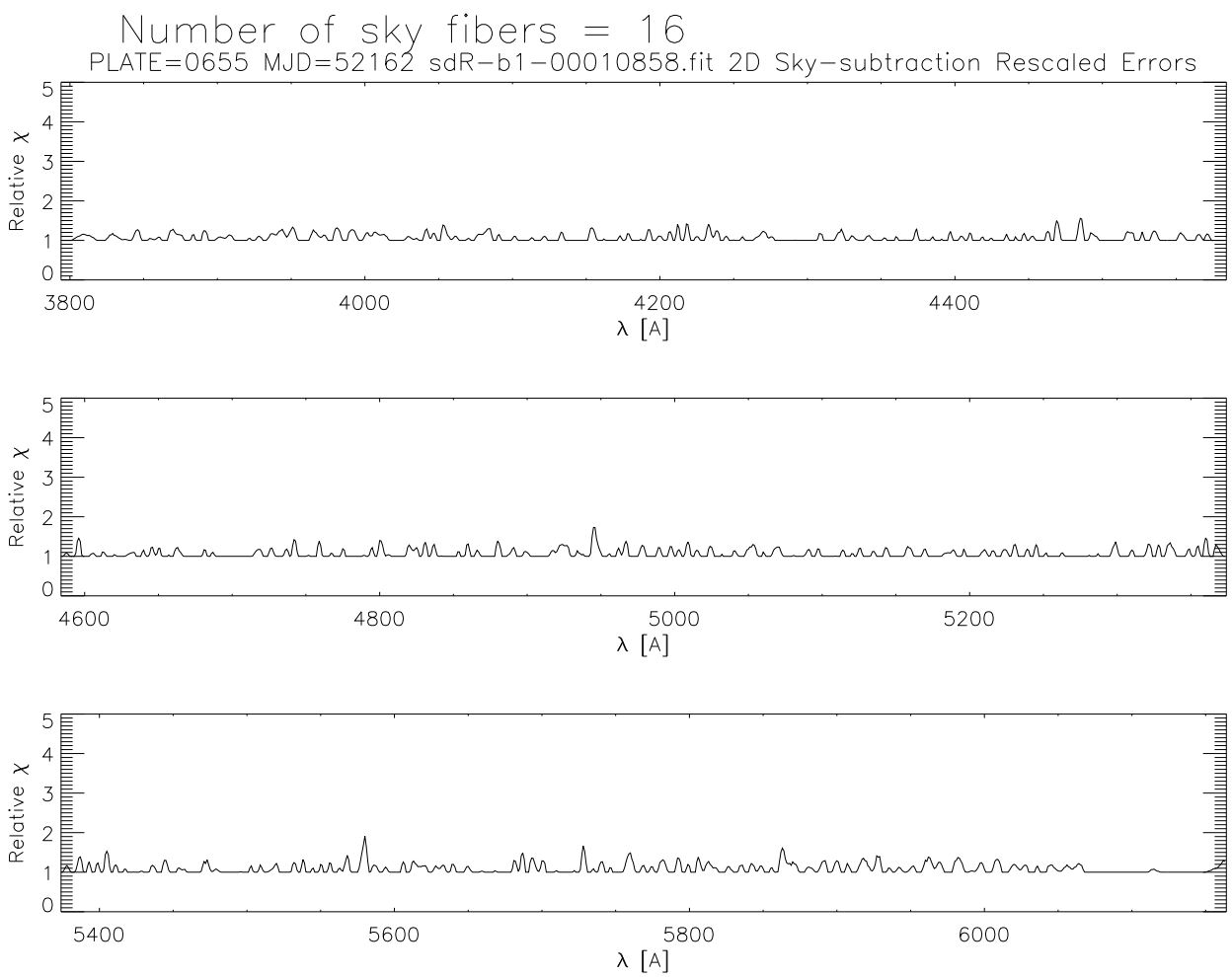

PLATE=0655 MJD=52162 sdR-b1-00010858.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

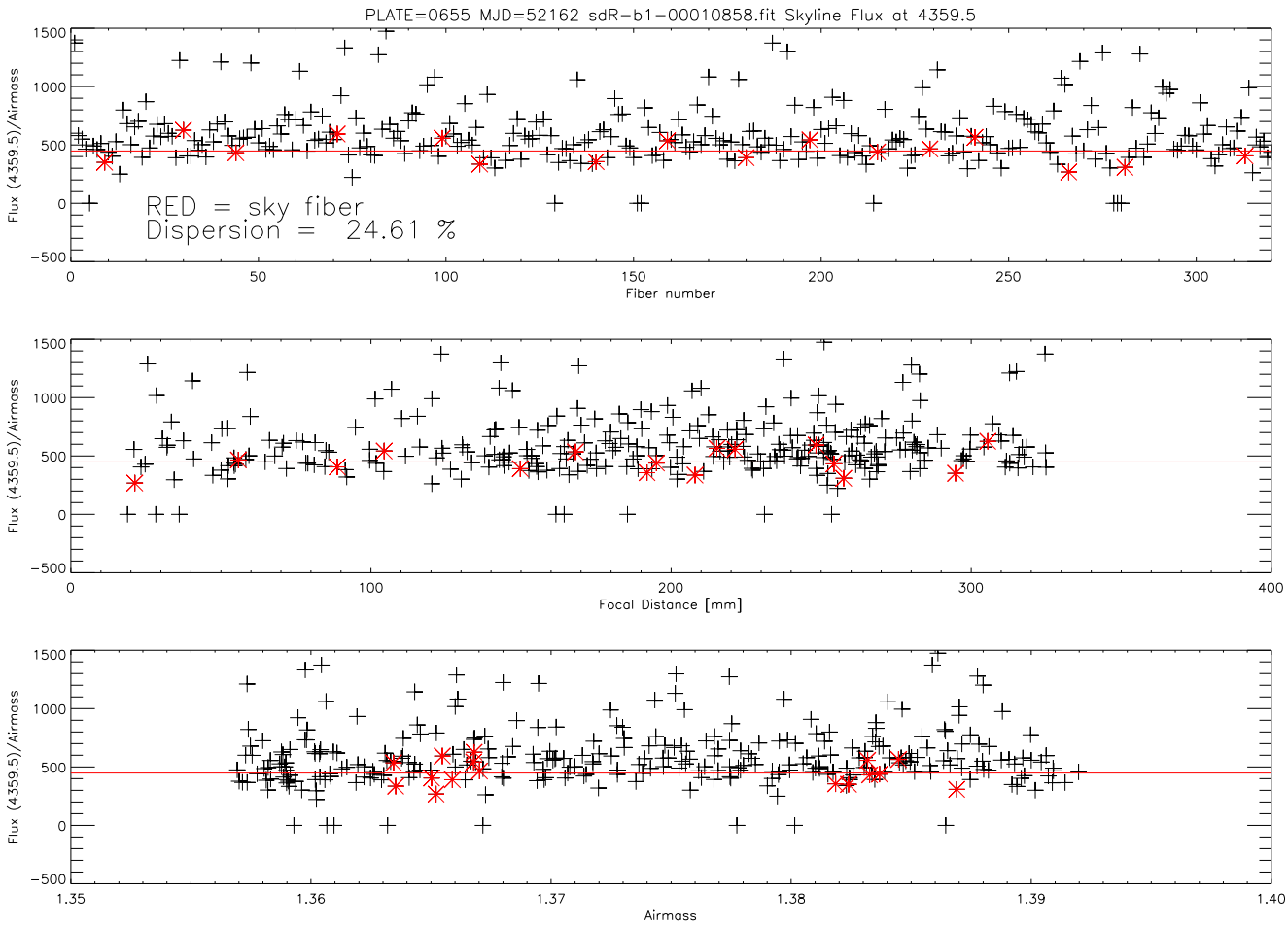

Number of sky fibers = 16
PLATE=0655 MJD=52162 sdR-b1-00010858.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

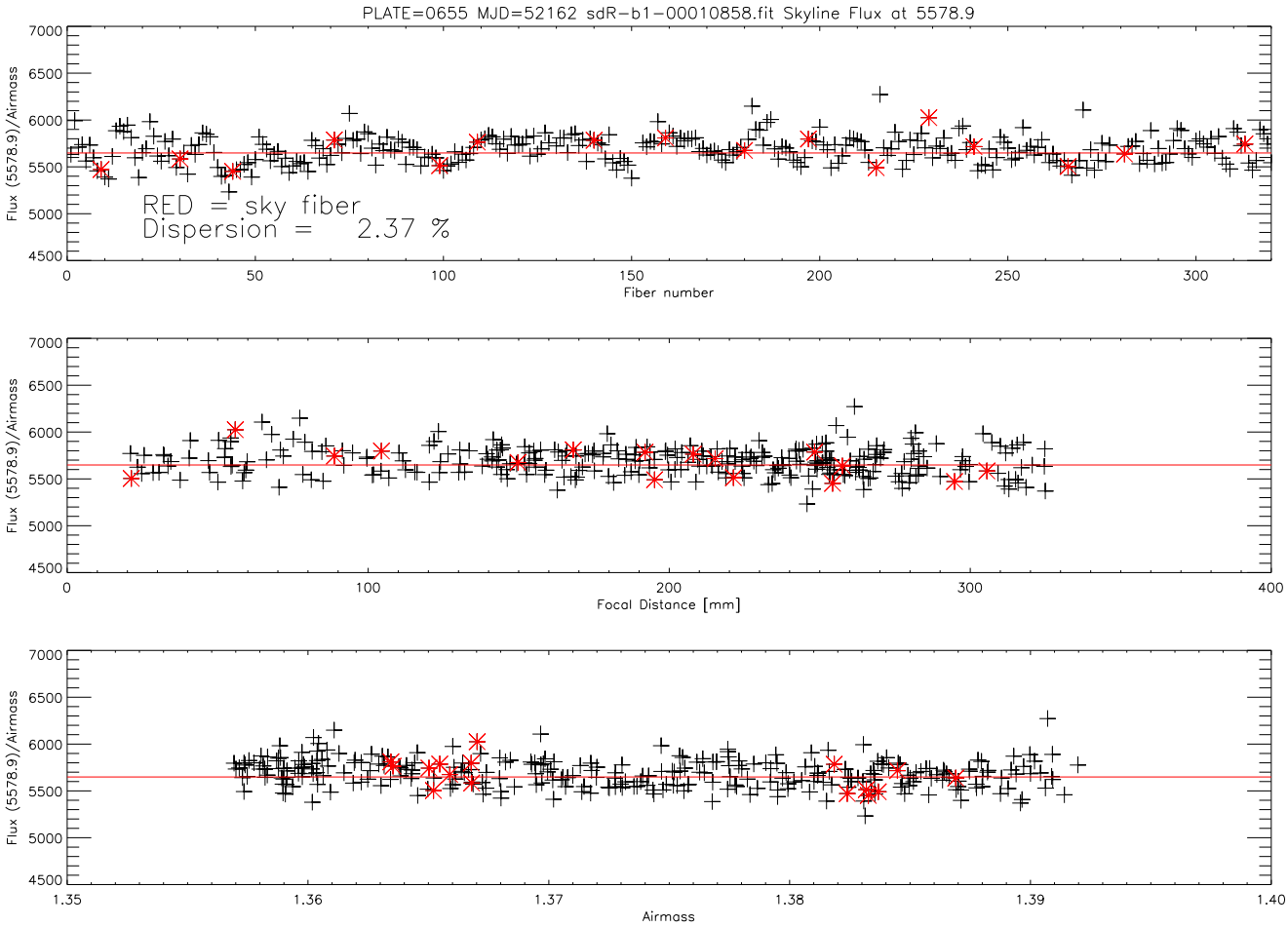

PLATE=0655 MJD=52162 sdR-b1-00010858.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

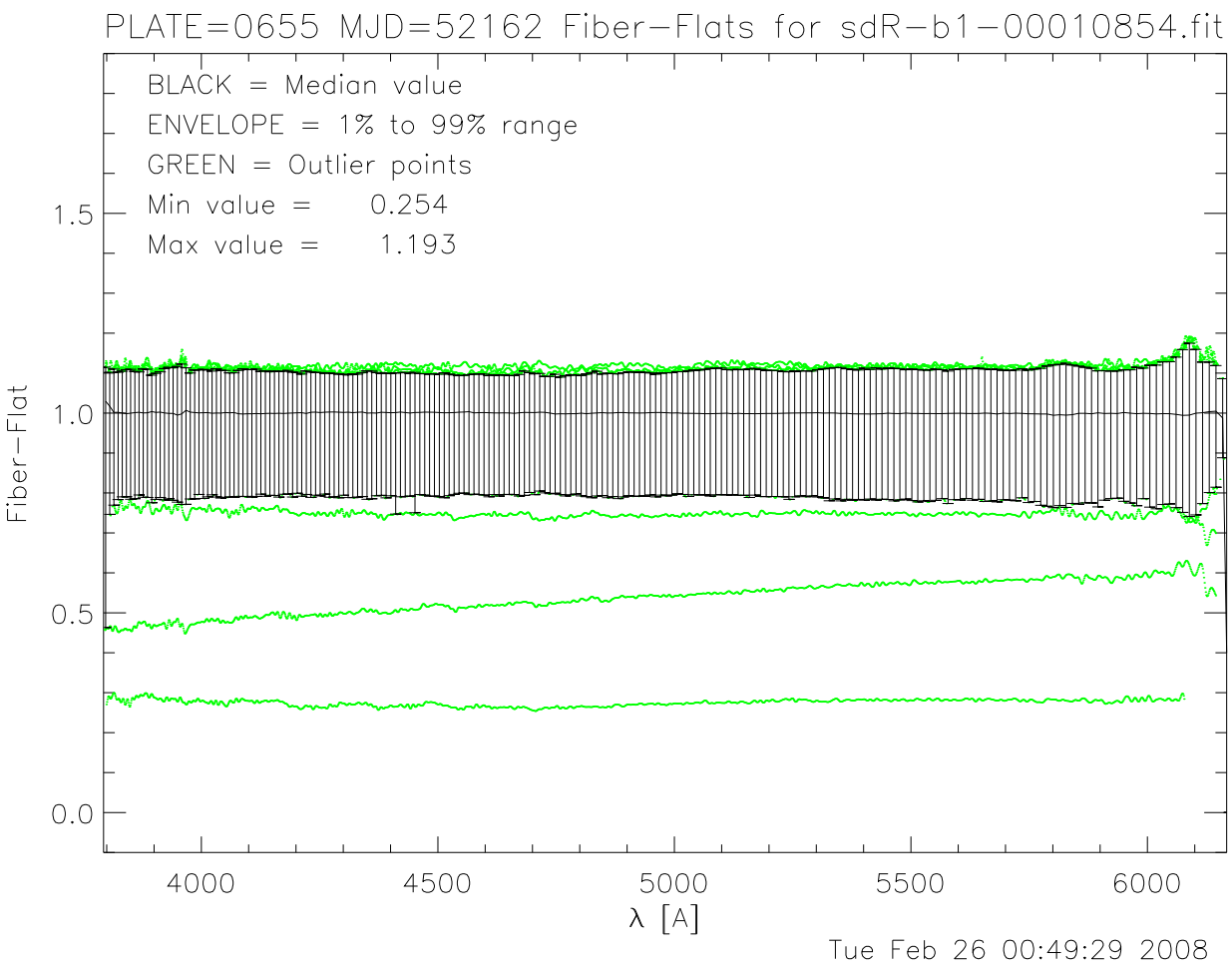

PLATE=0655 MJD=52162 sdR-b1-00010858.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

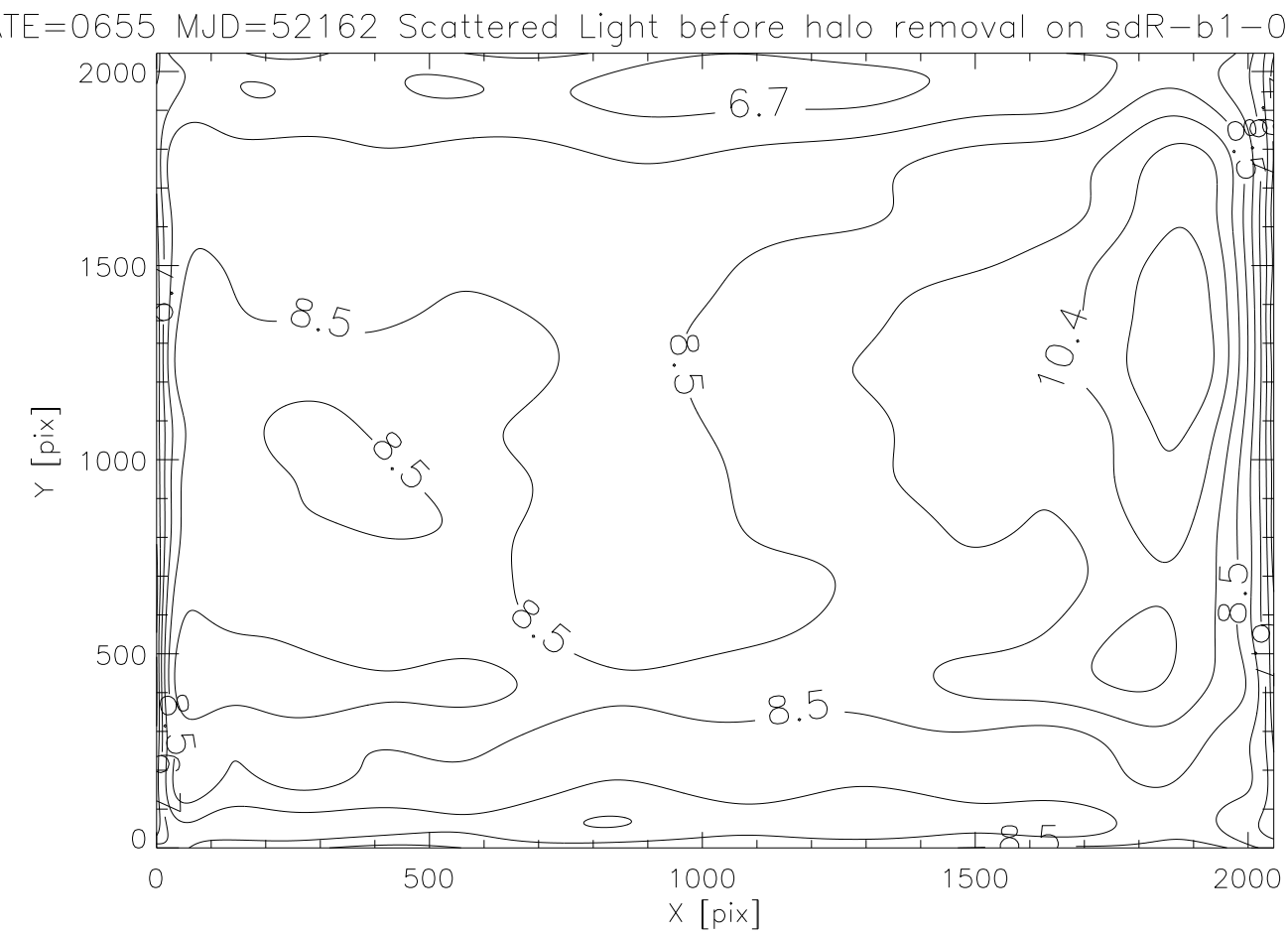

PLATE=0655 MJD=52162 sdR-b1-00010858.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

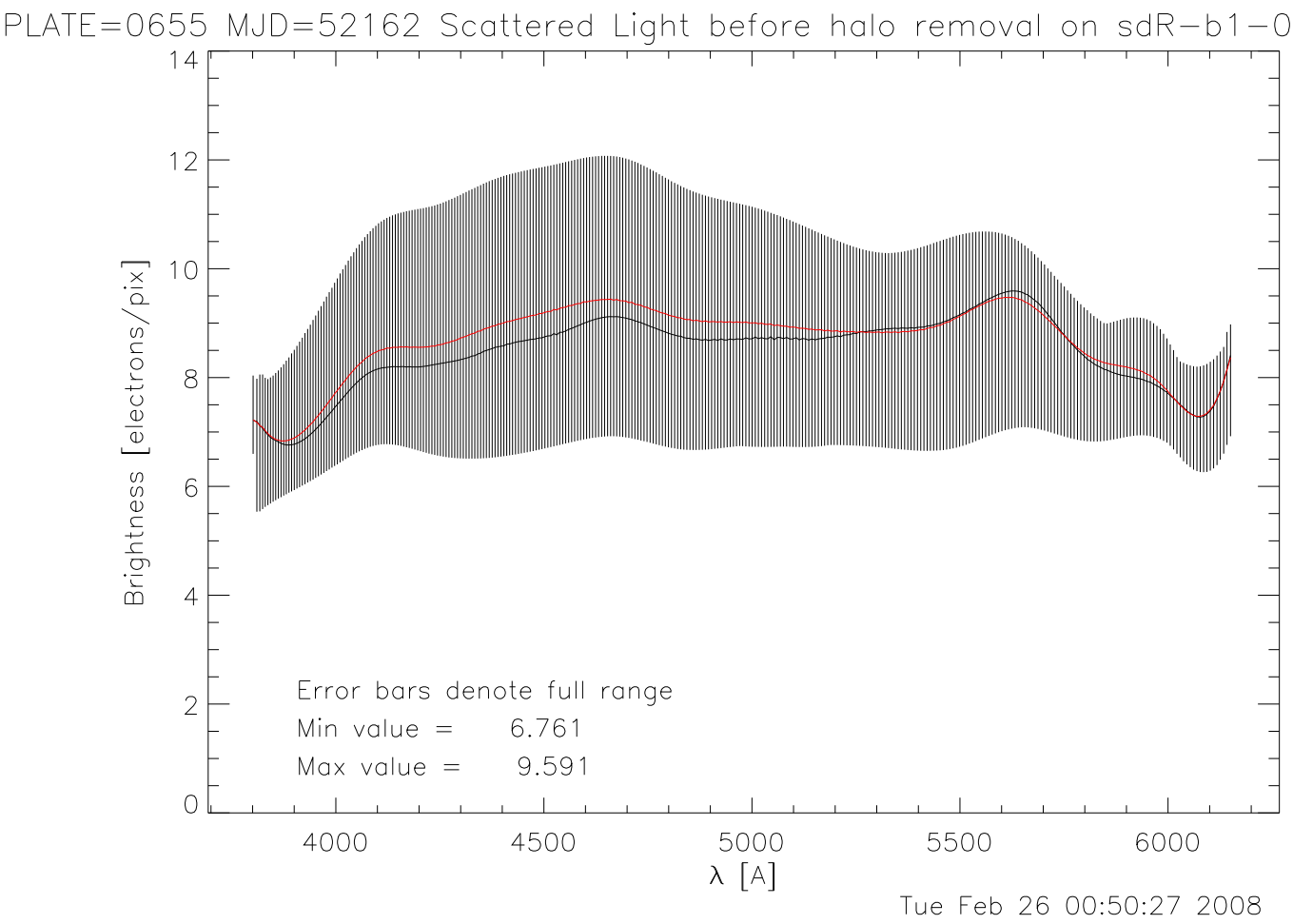

Number of sky fibers = 16
PLATE=0655 MJD=52162 sdR-b1-00010858.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

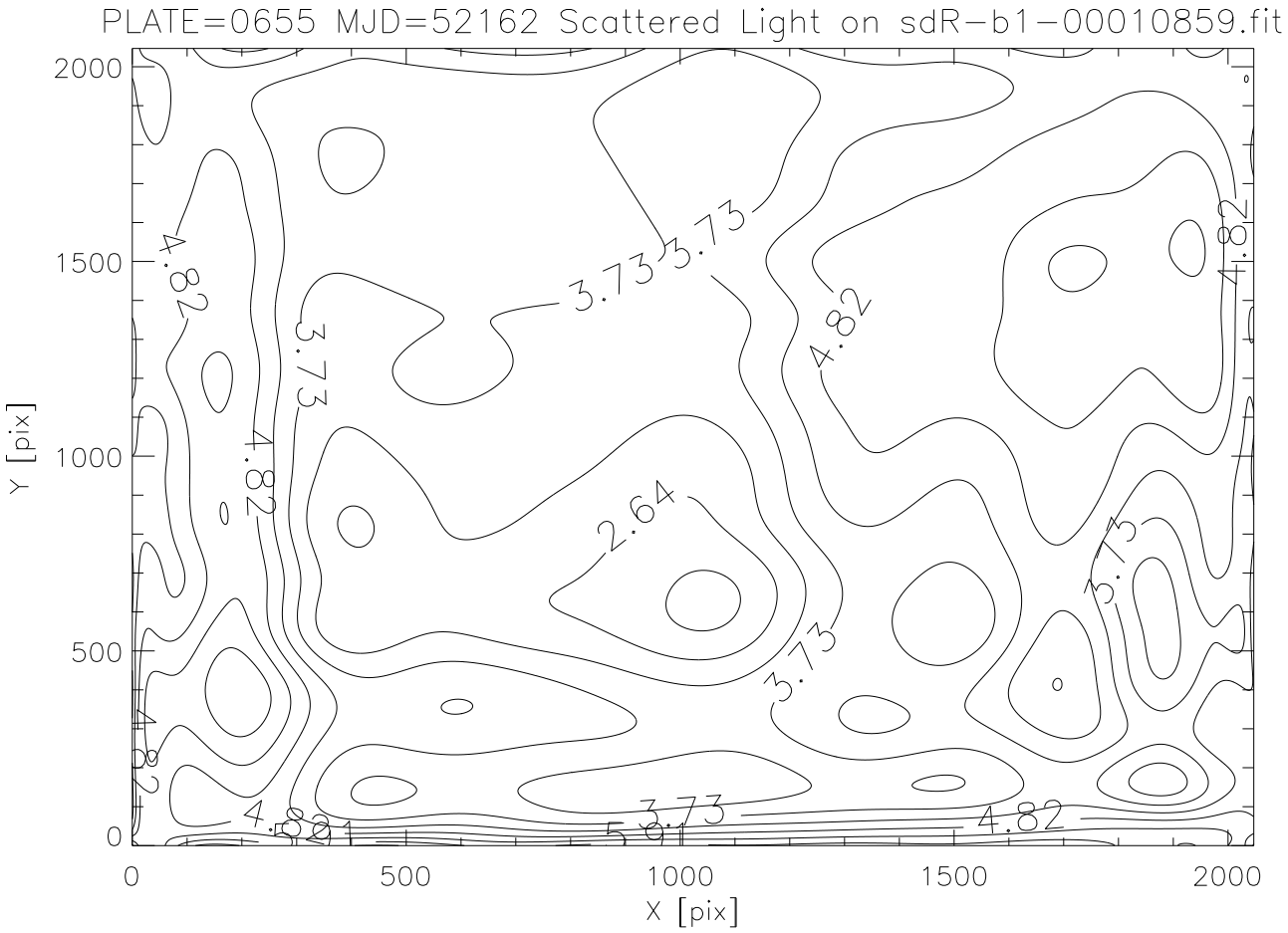

PLATE=0655 MJD=52162 sdR-b1-00010858.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 24.61 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

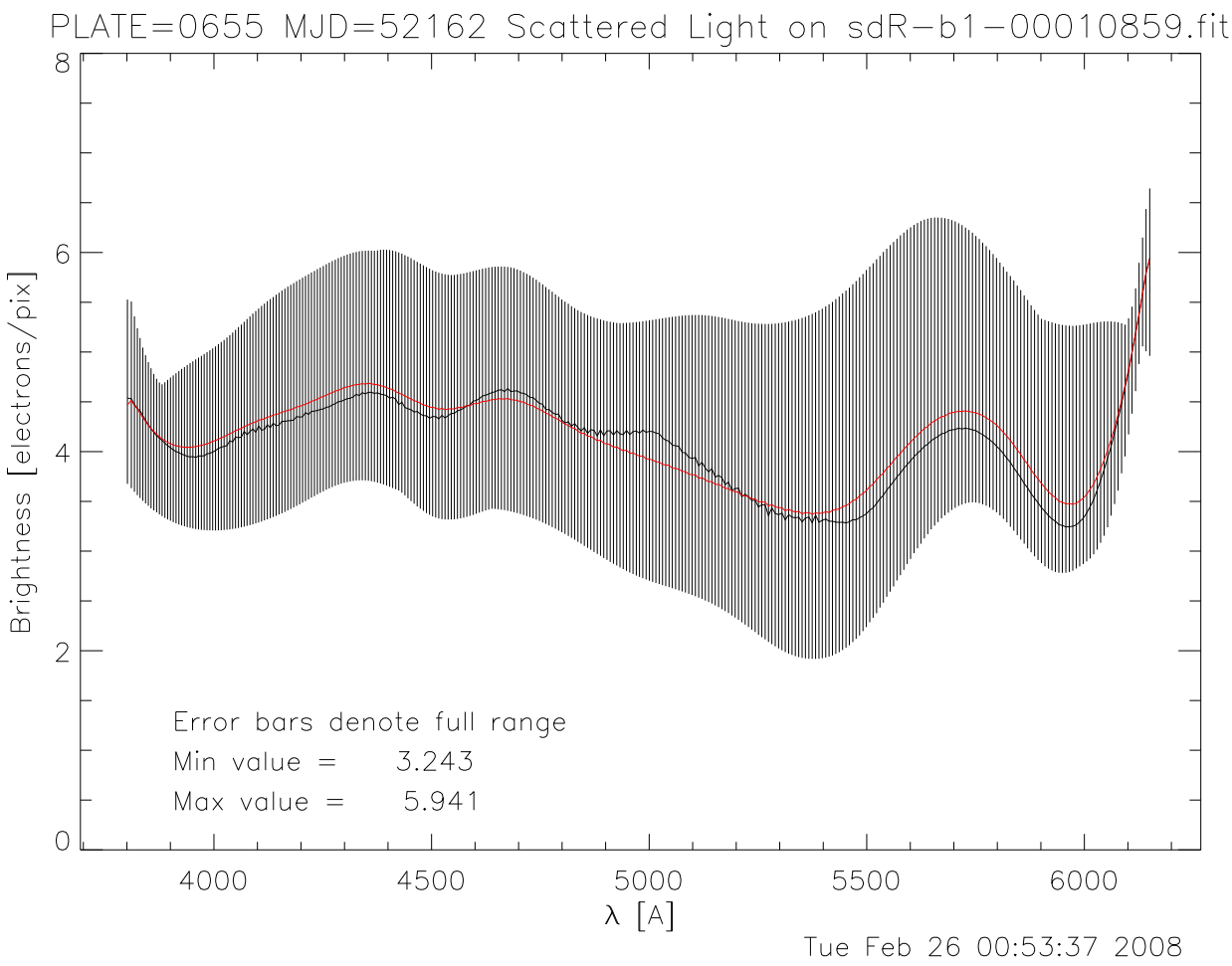

PLATE=0655 MJD=52162 sdR-b1-00010858.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.37 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

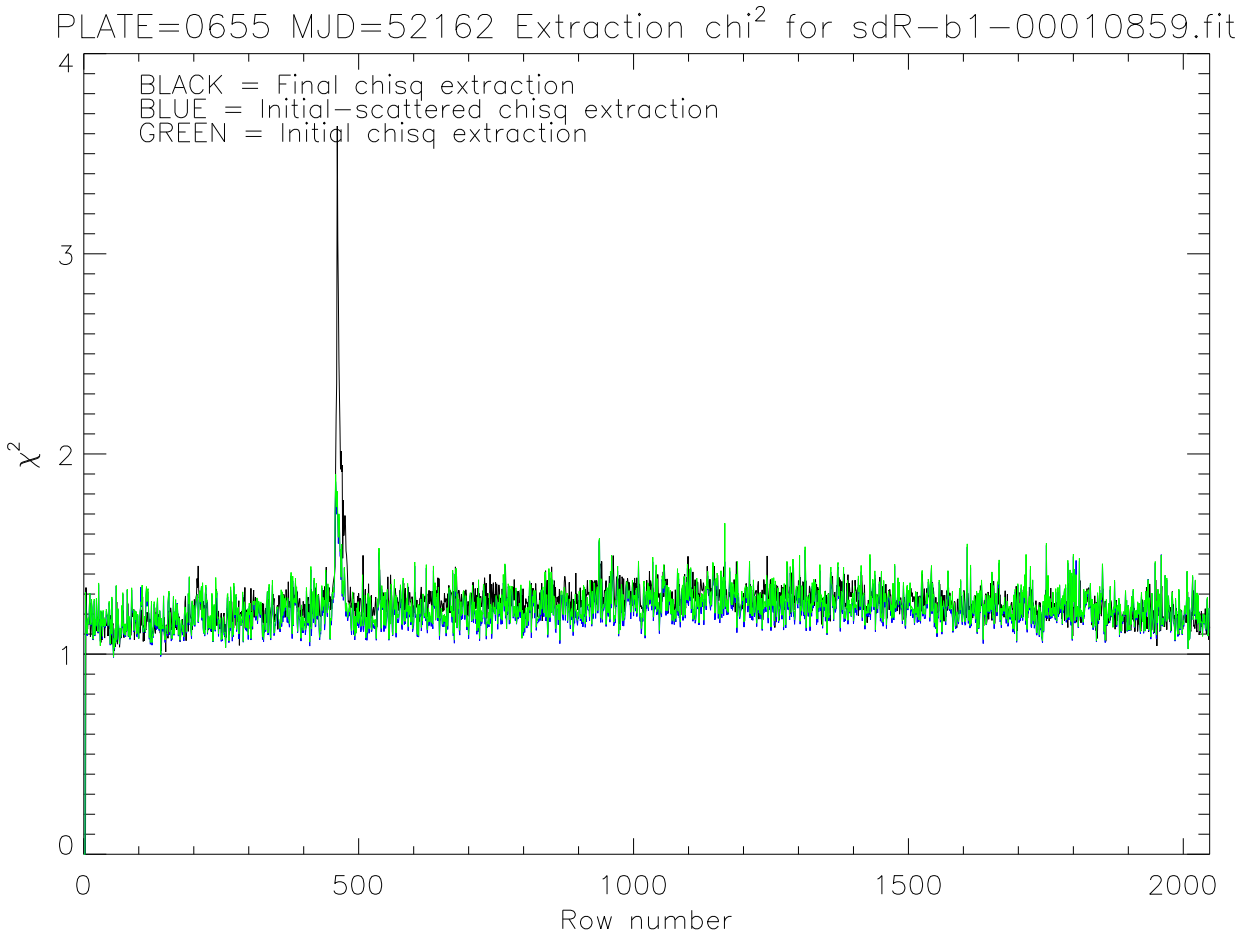

PLATE=0655 MJD=52162 Fiber-Flats for sdR-b1-00010854.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.254
Max value = 1.193
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 00:49:29 2008

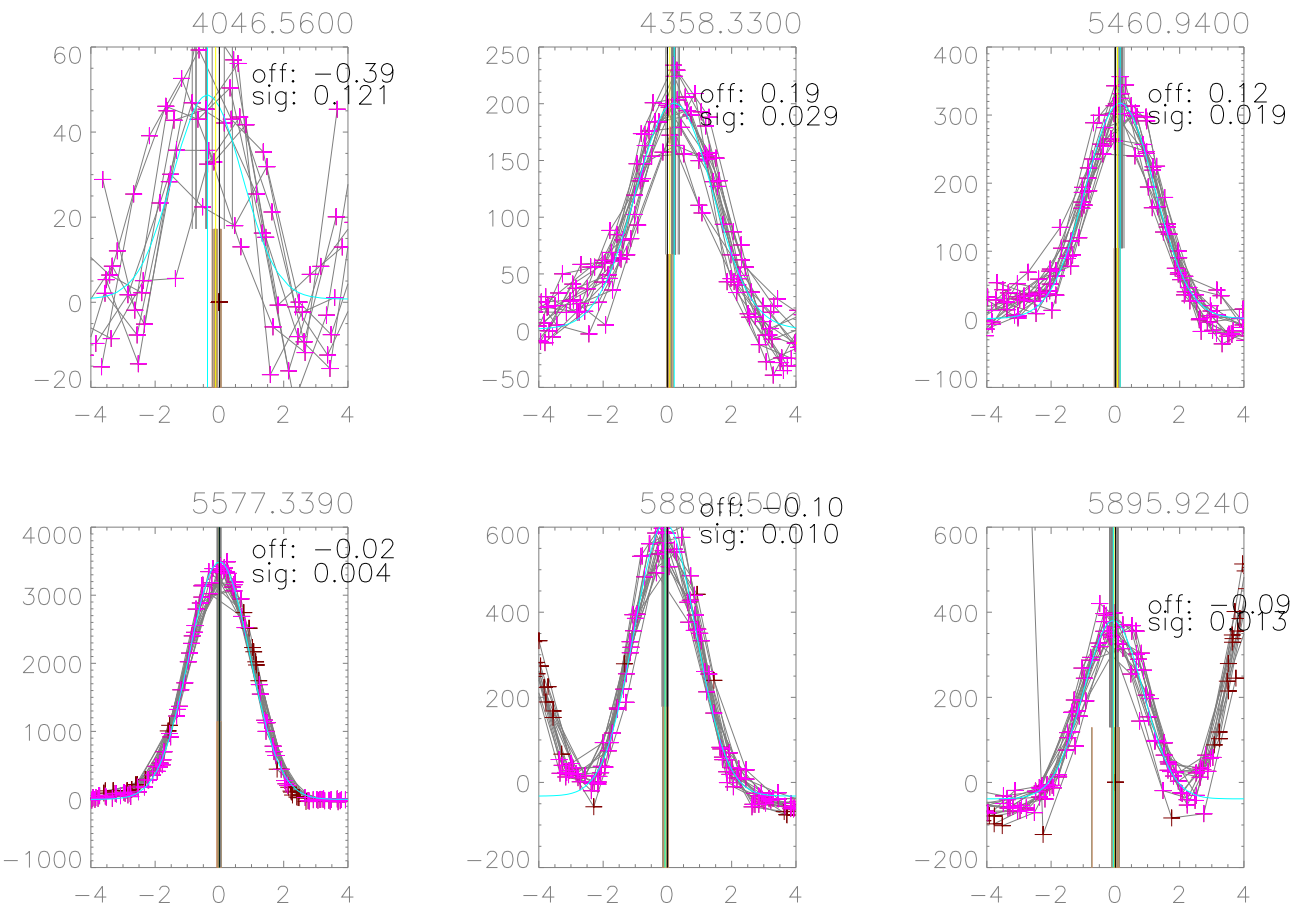

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-b1-00010859.f
6.7
8.5
8.5
8.5
8.5
8.5
10.4
10.4
Y [pix]
X [pix]
0
500
1000
1500
2000

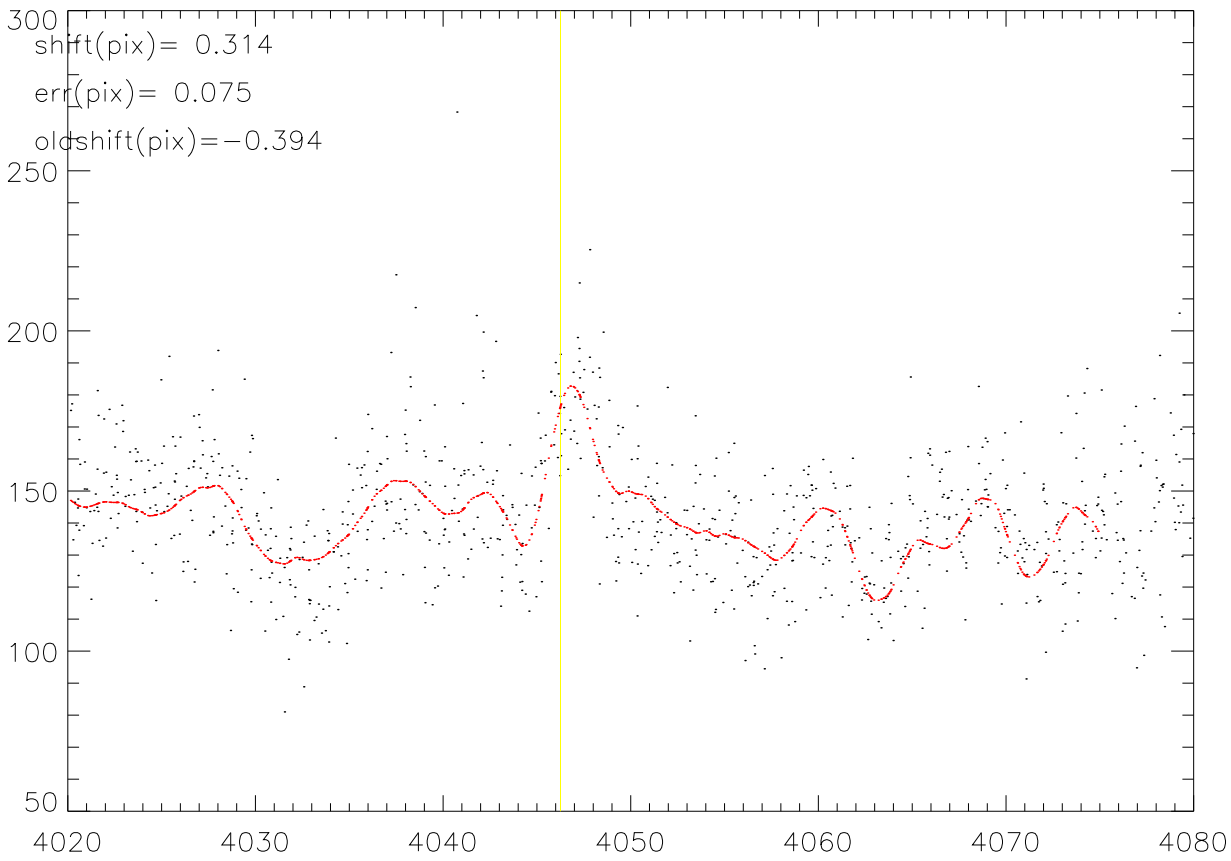

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-b1-00010859.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.761
Max value = 9.591
Tue Feb 26 00:50:27 2008

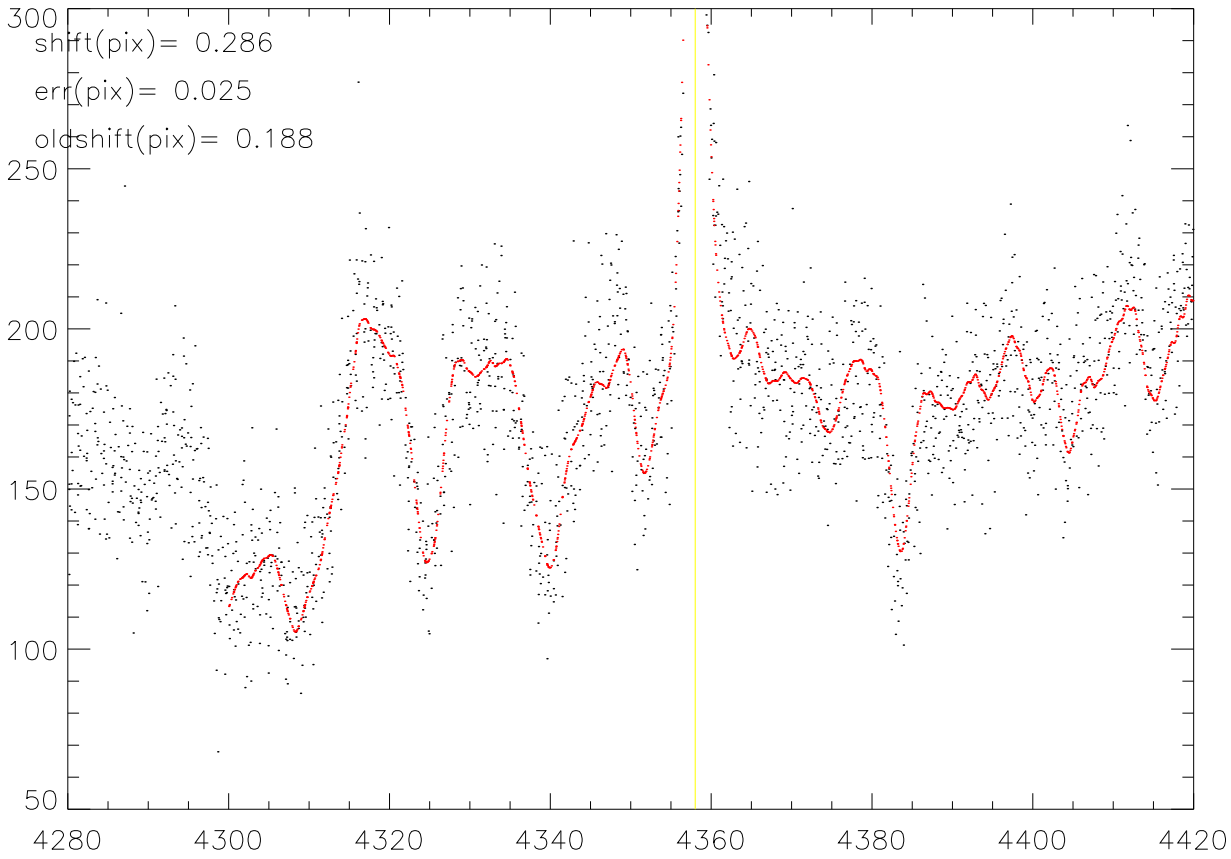

PLATE=0655 MJD=52162 Scattered Light on sdR-b1-00010859.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
4.82
3.73
2.64
5.91

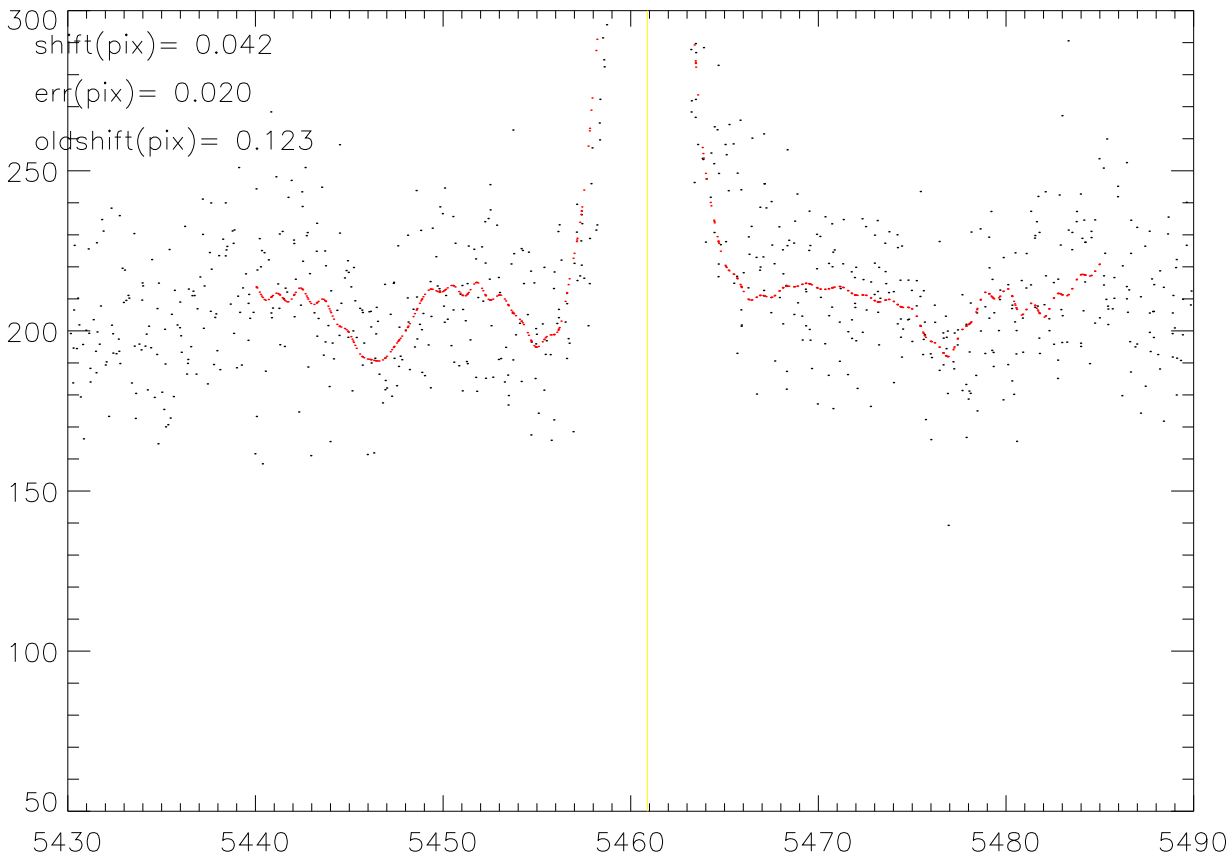

PLATE=0655 MJD=52162 Scattered Light on sdR-b1-00010859.fit
Brightness [electrons/pix]
0
2
4
6
8
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 3.243
Max value = 5.941
Tue Feb 26 00:53:37 2008

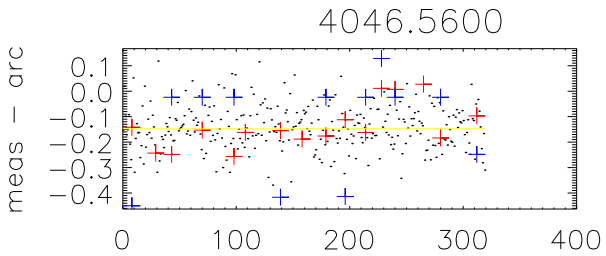

PLATE=0655 MJD=52162 Extraction chi^2 for sdR-b1-00010859.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

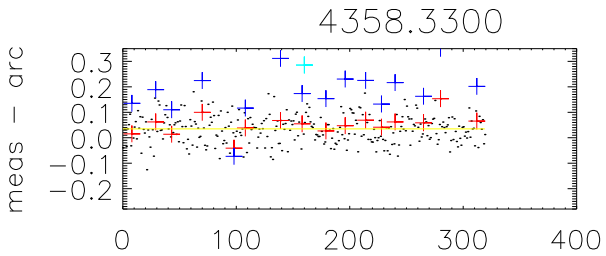

4046.5600
off: −0.39
sig: 0.121
4358.3300
off: 0.19
sig: 0.029
5460.9400
off: 0.12
sig: 0.019
5577.3390
off: −0.02
sig: 0.004
5888.9500
off: −0.10
sig: 0.010
5895.9240
off: −0.09
sig: 0.013

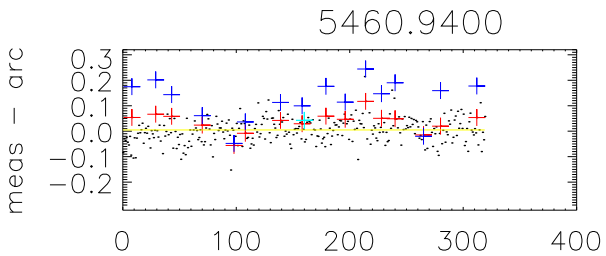

shift(pix)= 0.314
err(pix)= 0.075
oldshift(pix)=−0.394
300
250
200
150
100
50
4020
4030
4040
4050
4060
4070
4080

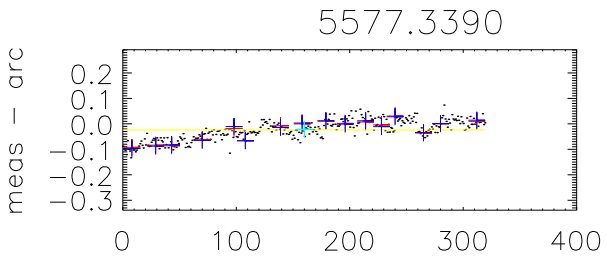

shift(pix)= 0.286
err(pix)= 0.025
oldshift(pix)= 0.188
300
250
200
150
100
50
4280
4300
4320
4340
4360
4380
4400
4420

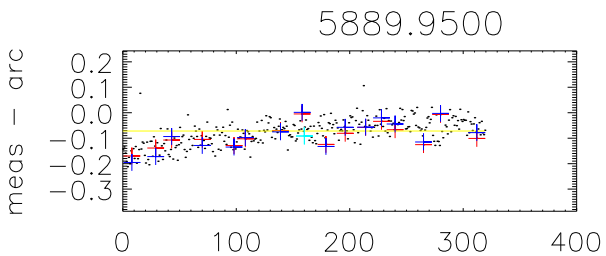

shift(pix)= 0.042
err(pix)= 0.020
oldshift(pix)= 0.123
300
250
200
150
100
50
5430
5440
5450
5460
5470
5480
5490

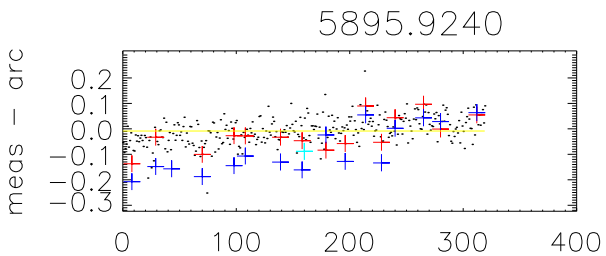

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

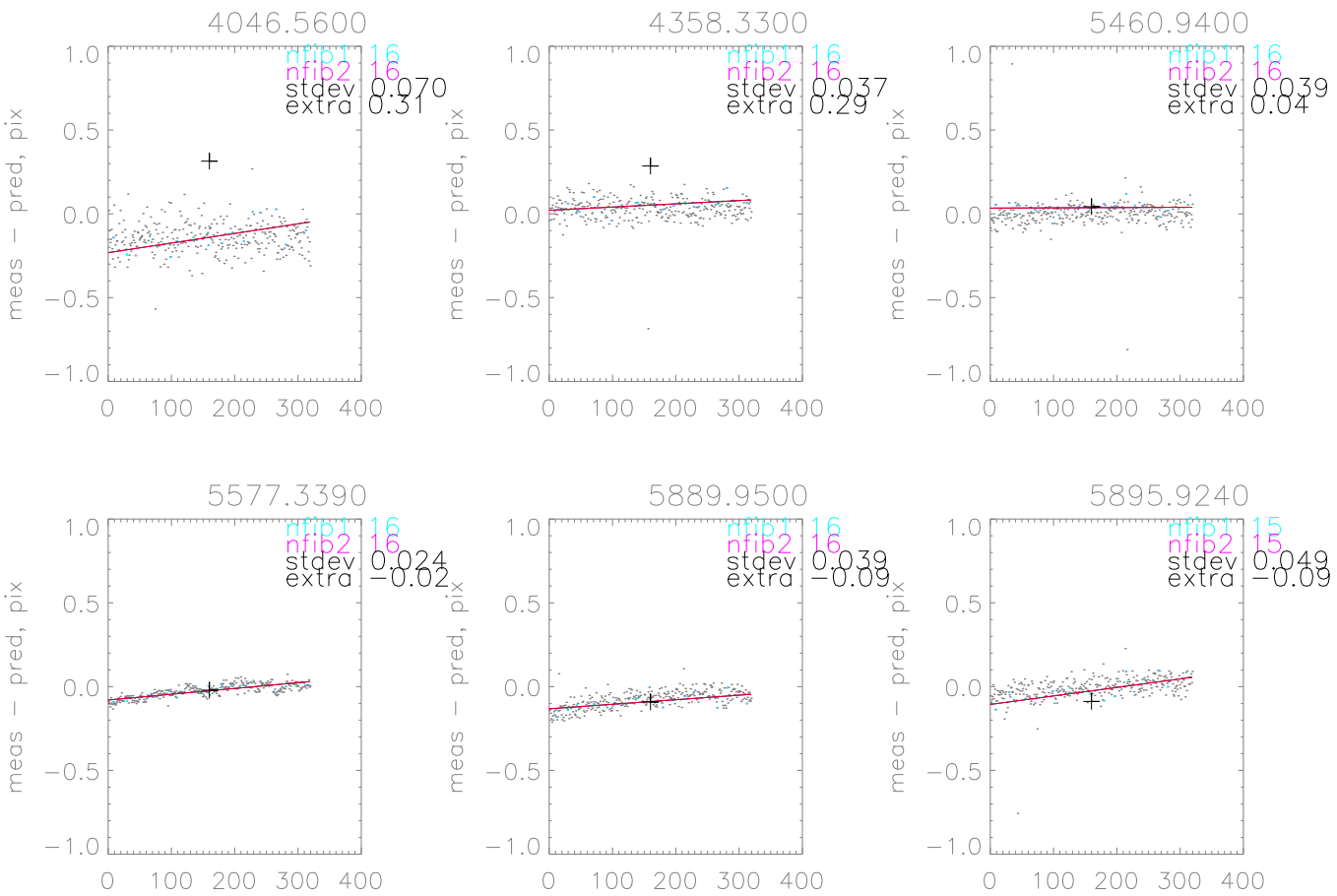

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

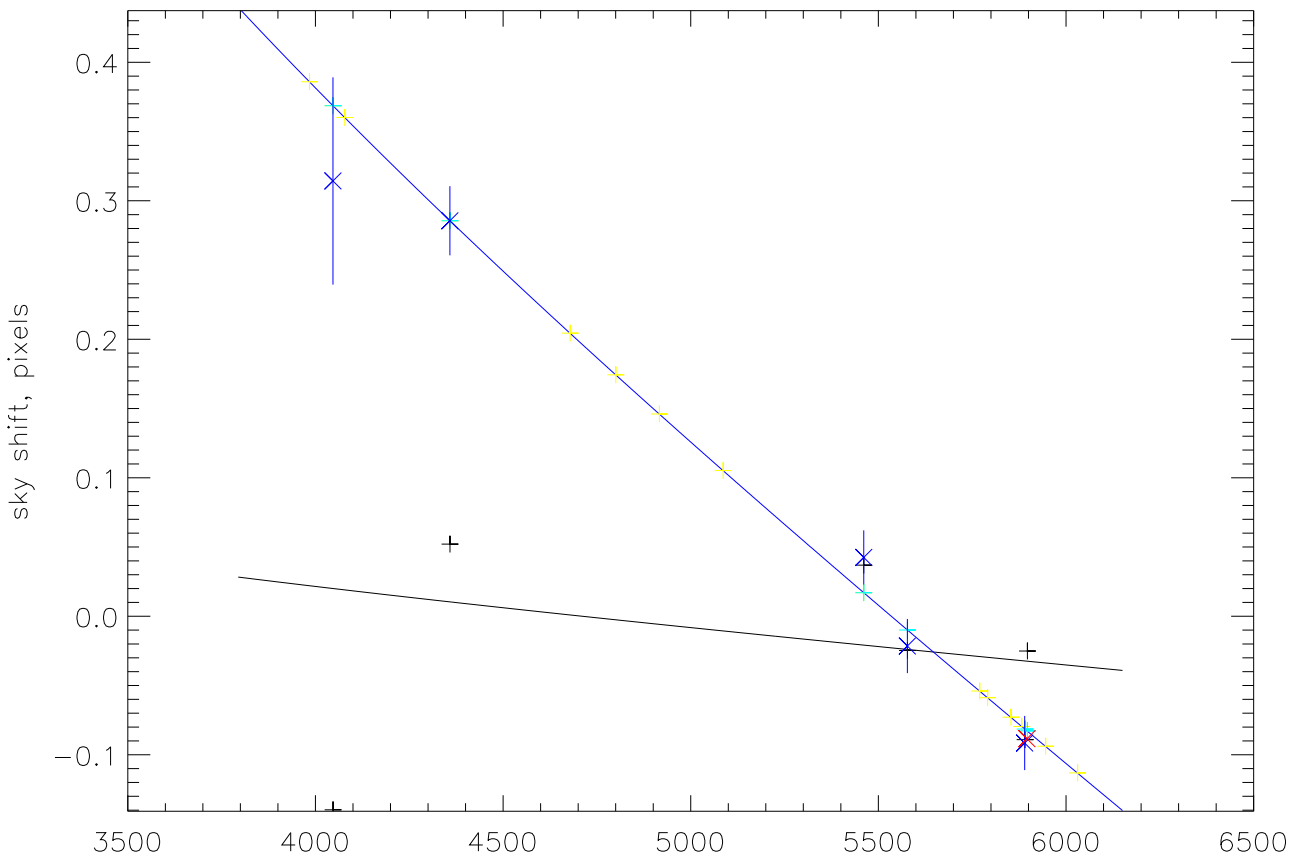

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

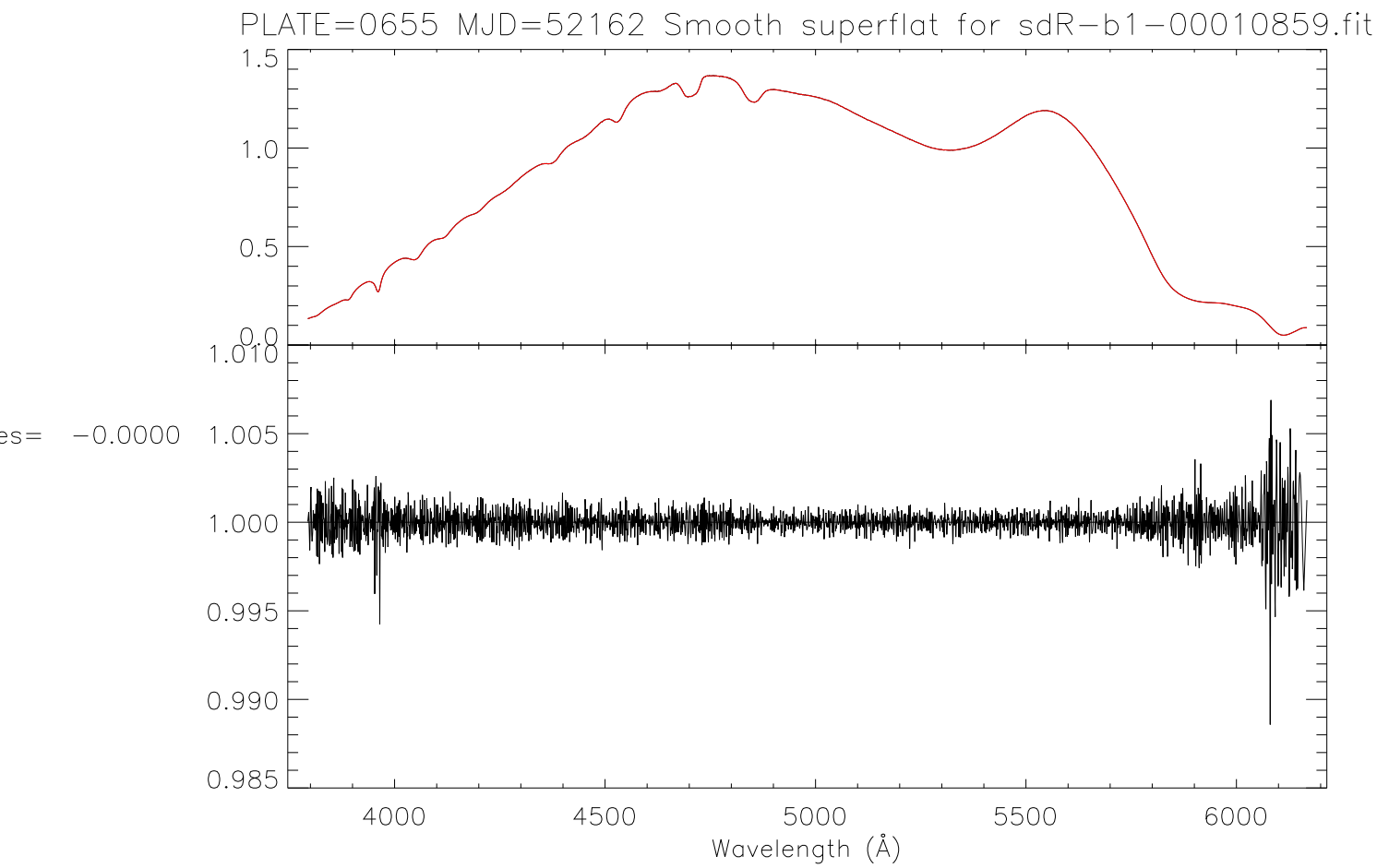

5577.3390
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

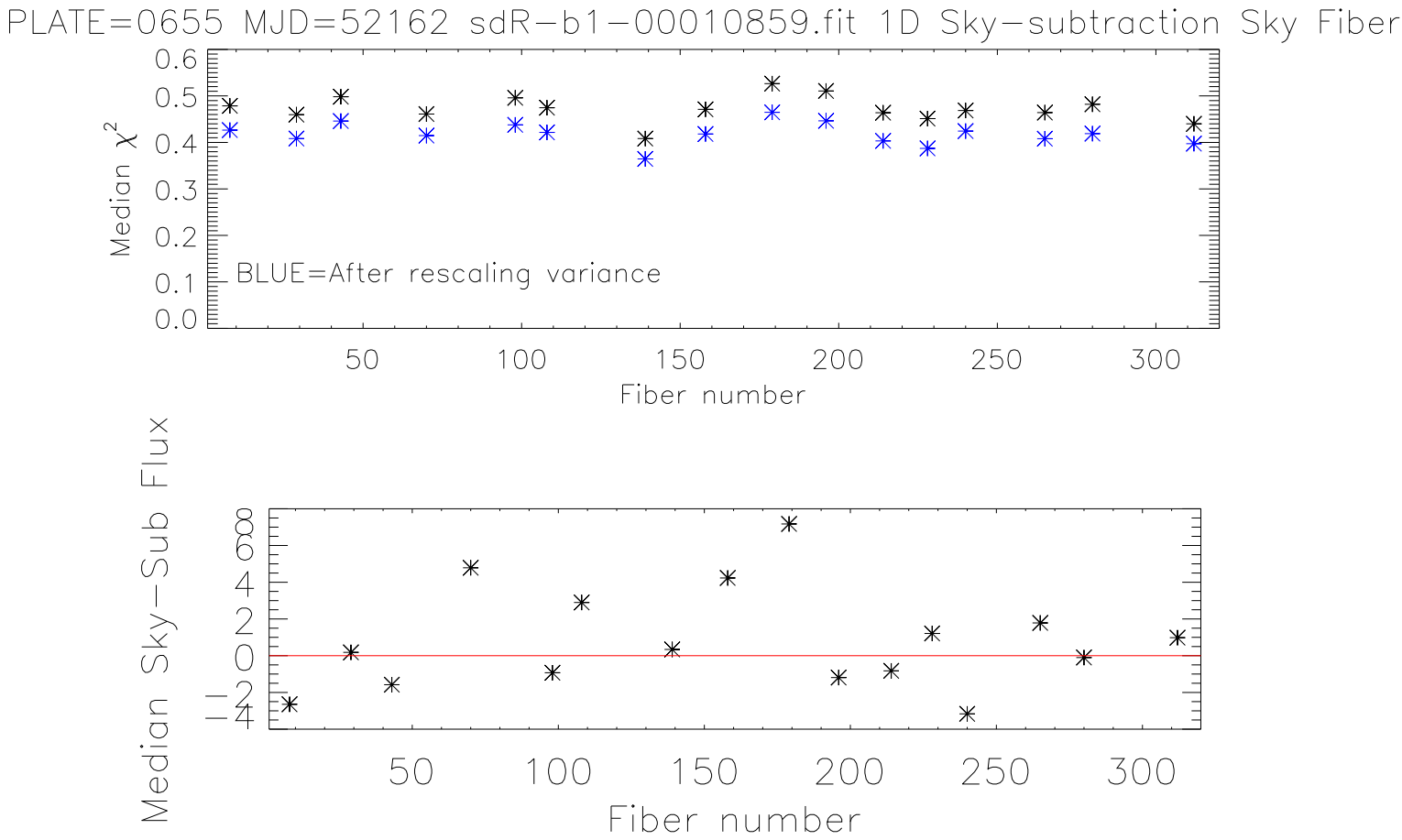

5889.9500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

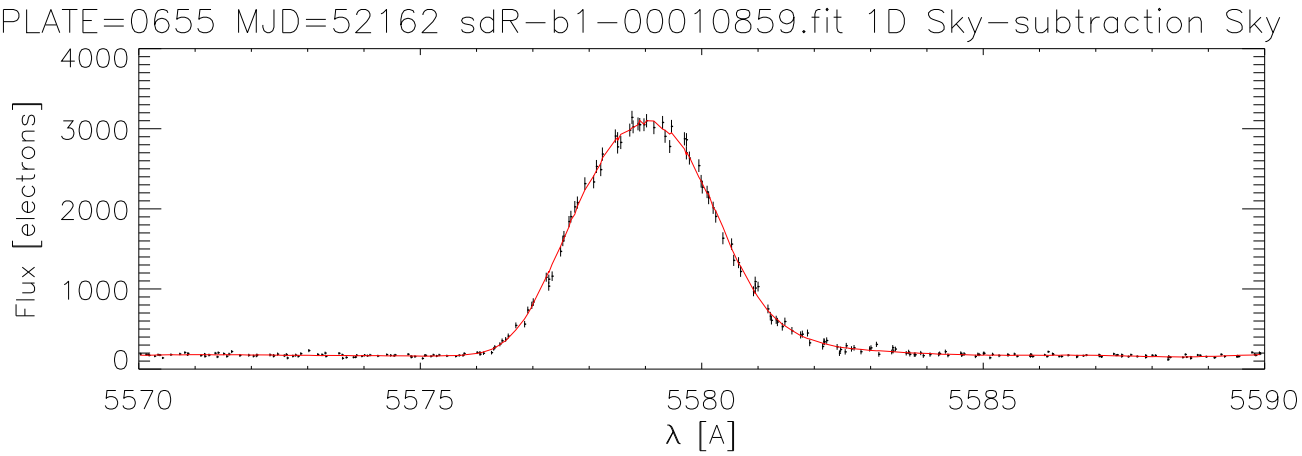

5895.9240
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

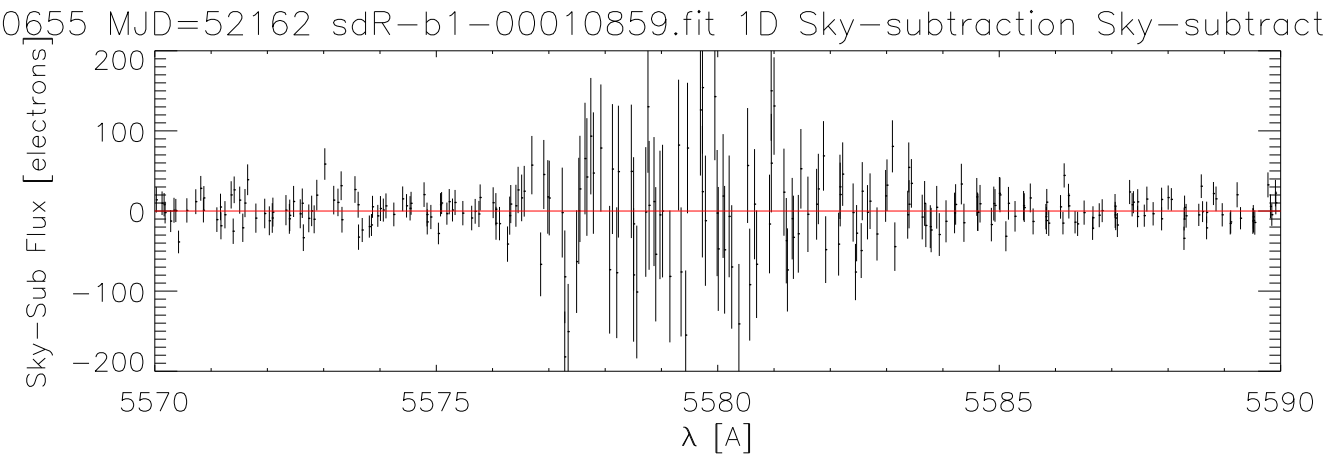

4046.5600
nfib1 16
nfib2 16
stdev 0.070
extra 0.31
4358.3300
nfib1 16
nfib2 16
stdev 0.037
extra 0.29
5460.9400
nfib1 16
nfib2 16
stdev 0.039
extra 0.04
5577.3390
nfib1 16
nfib2 16
stdev 0.024
extra −0.02
5889.9500
nfib1 16
nfib2 16
stdev 0.039
extra −0.09
5895.9240
nfib1 15
nfib2 15
stdev 0.049
extra −0.09
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

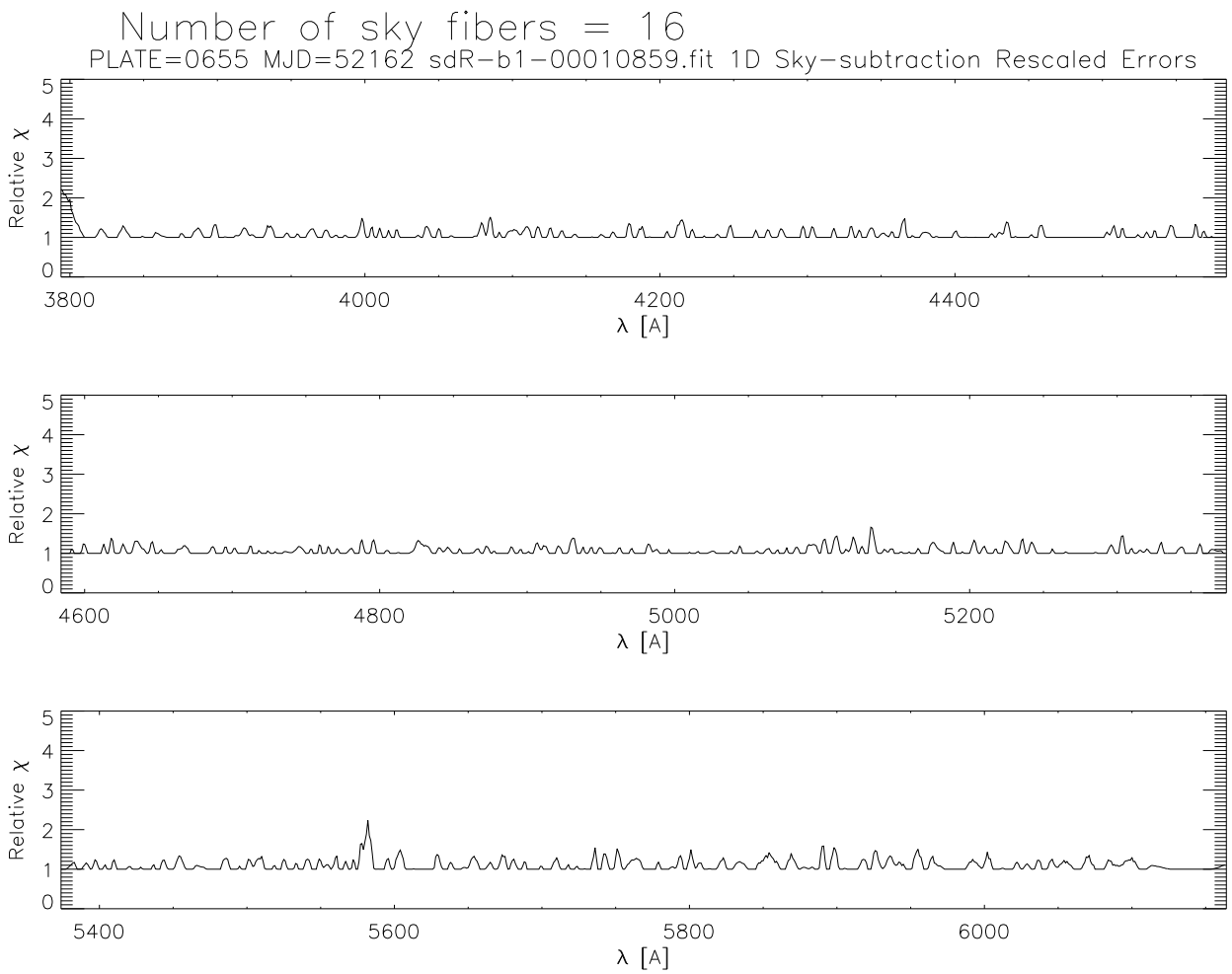

sky shift, pixels
0.4
0.3
0.2
0.1
0.0
−0.1
3500
4000
4500
5000
5500
6000
6500

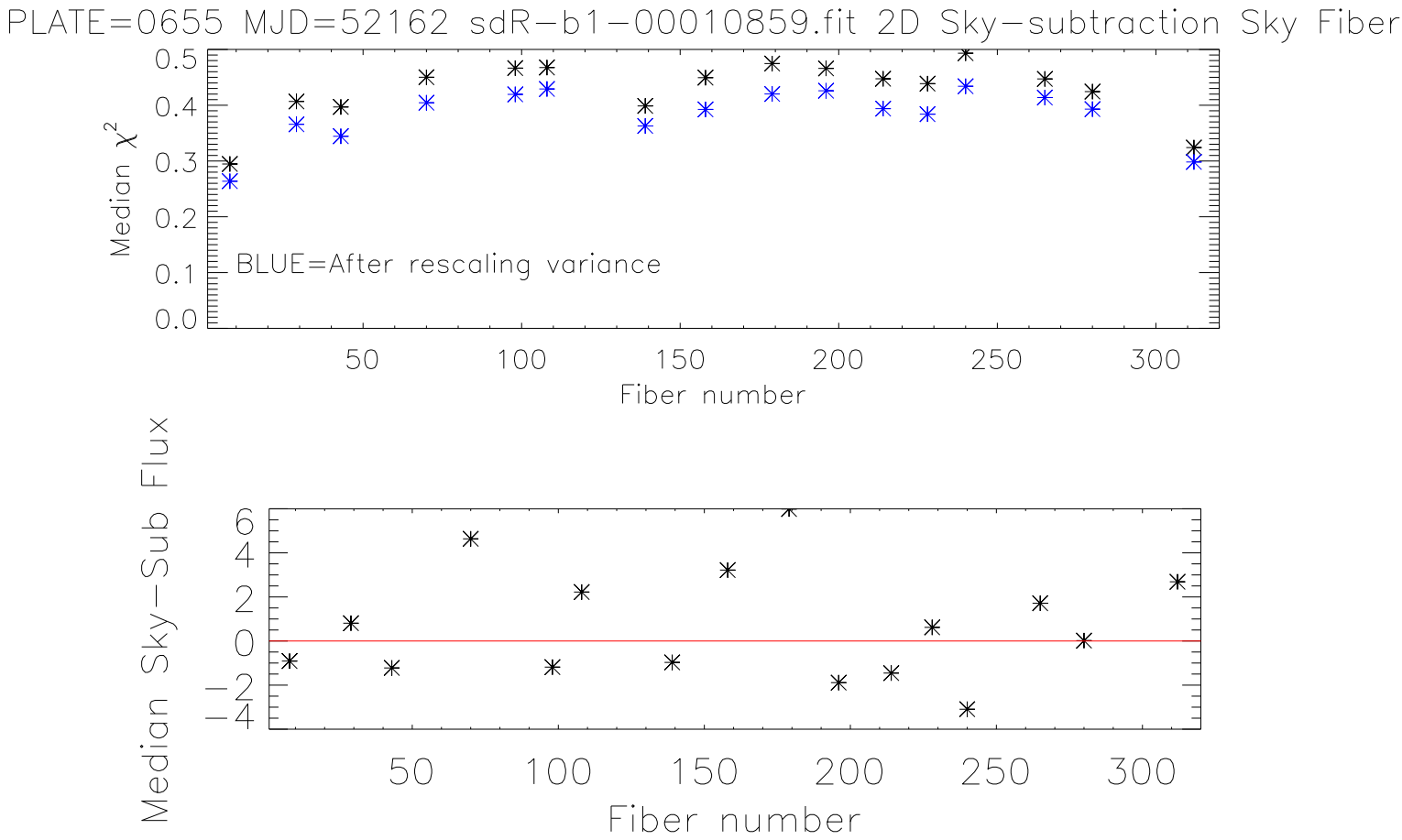

PLATE=0655 MJD=52162 Smooth superflat for sdR-b1-00010859.fit
1.5
1.0
0.5
0.0
es= -0.0000
1.010
1.005
1.000
0.995
0.990
0.985
4000
4500
5000
5500
6000
Wavelength (Å)

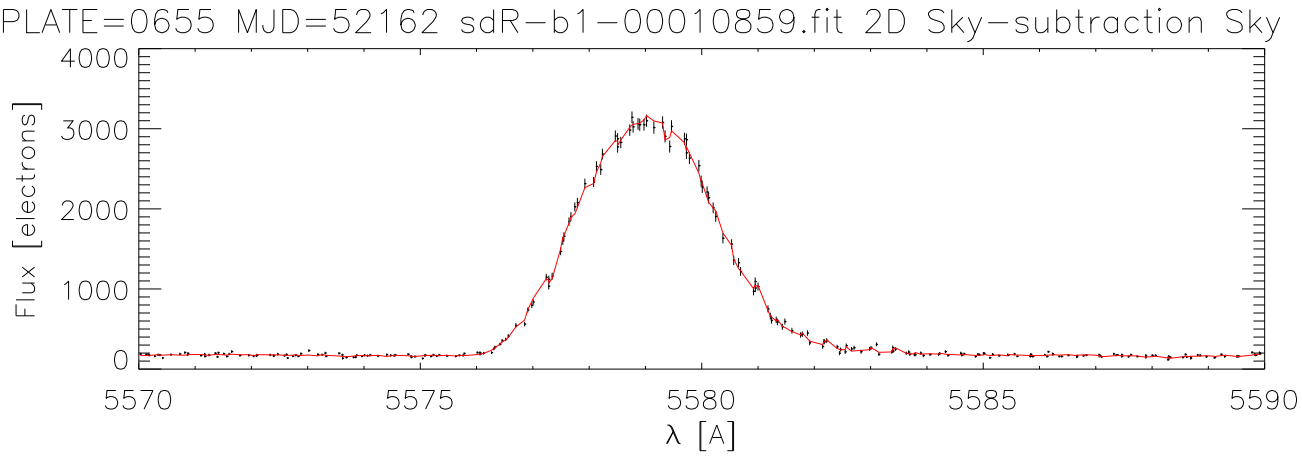

PLATE=0655 MJD=52162 sdR-b1-00010859.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

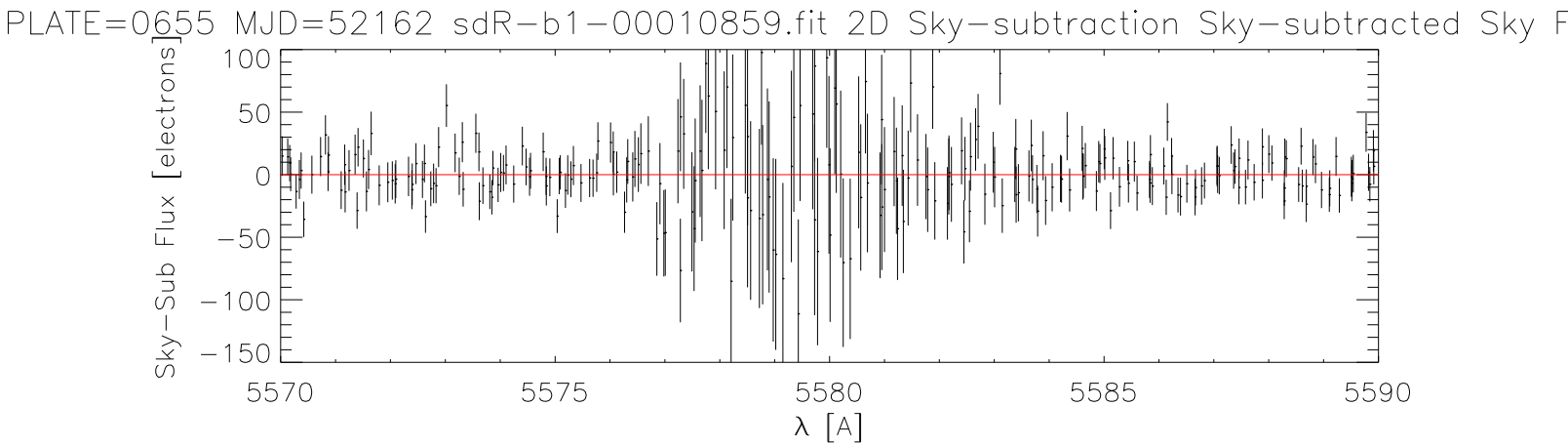

PLATE=0655 MJD=52162 sdR-b1-00010859.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

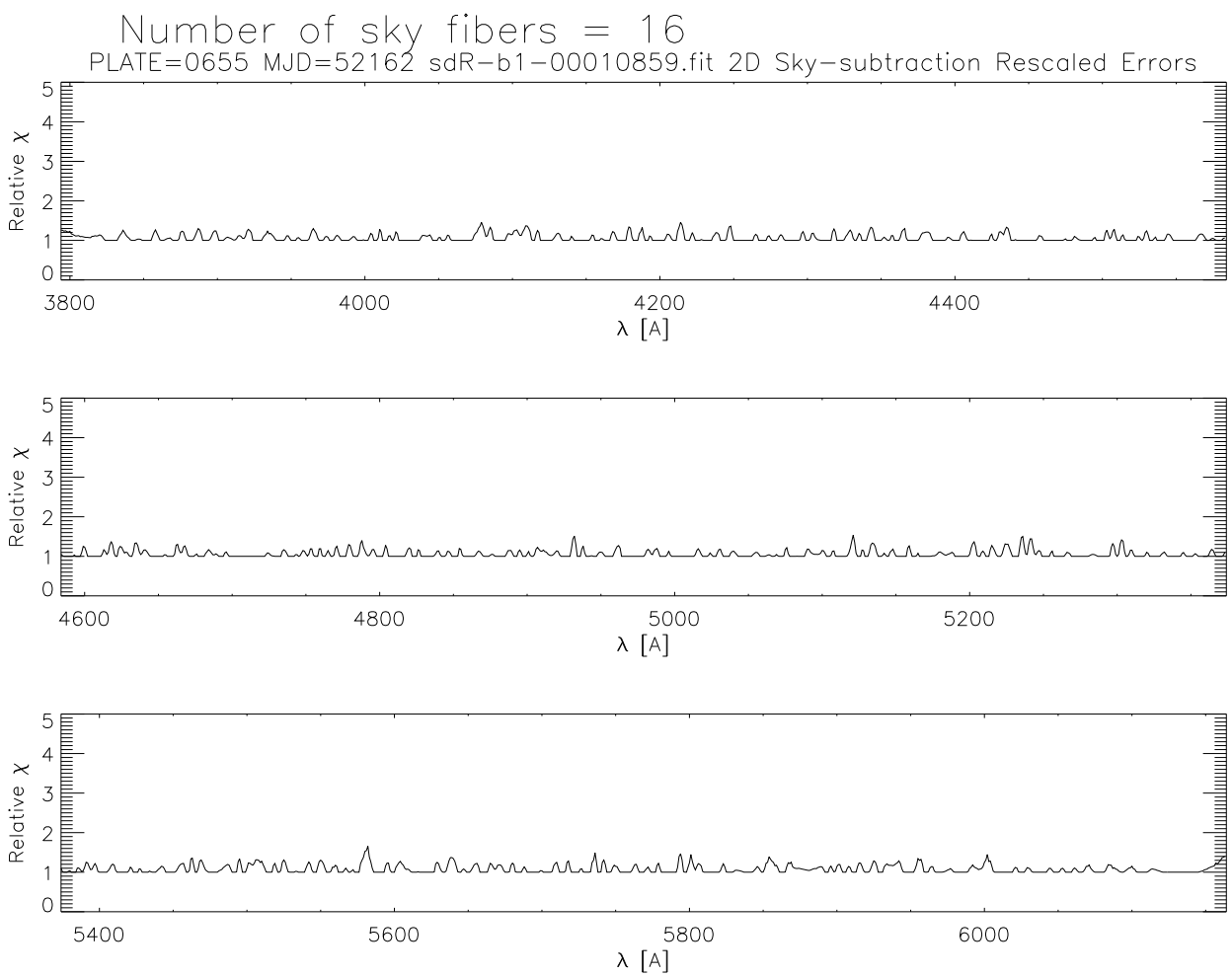

PLATE=0655 MJD=52162 sdR-b1-00010859.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

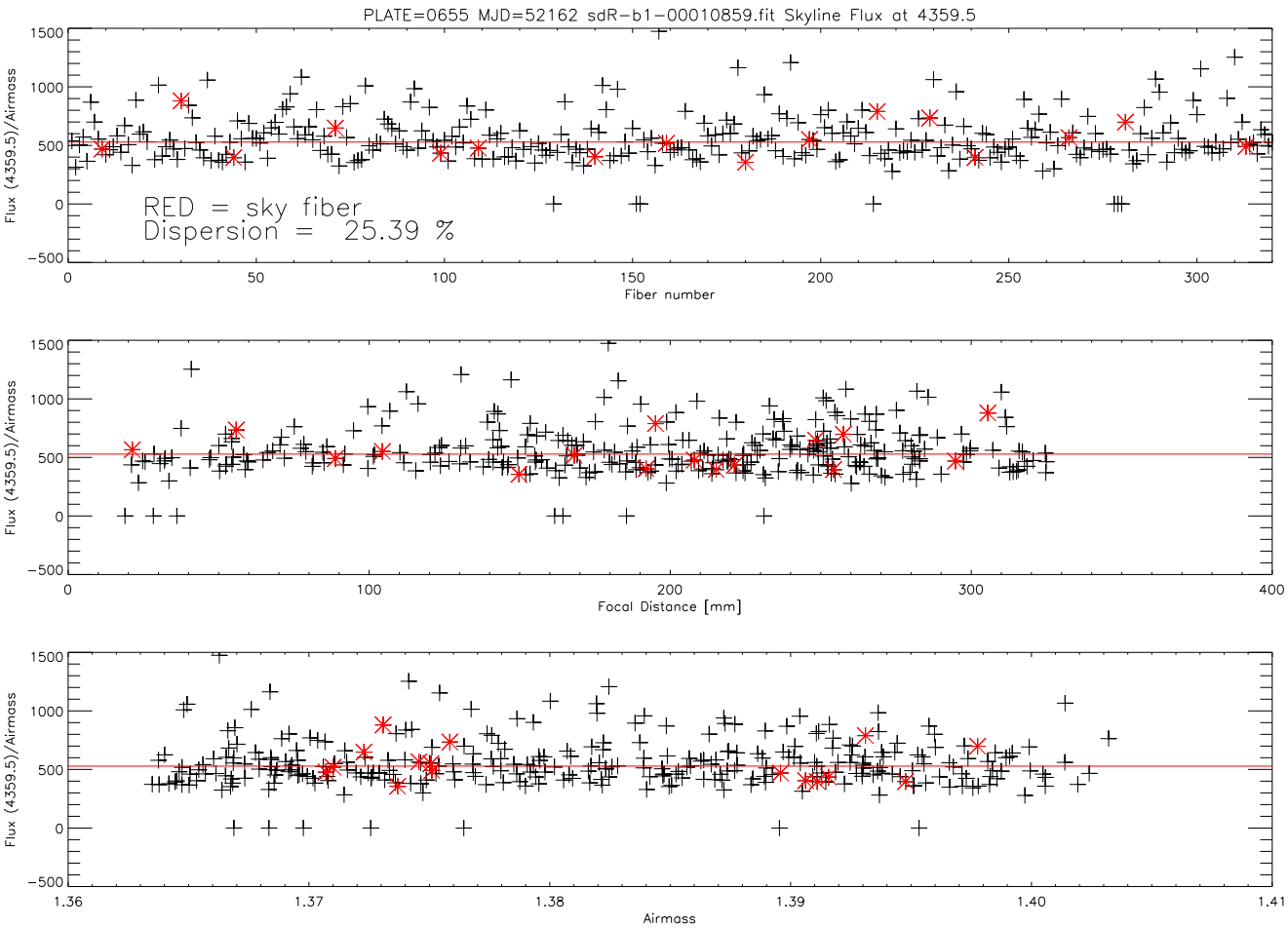

Number of sky fibers = 16
PLATE=0655 MJD=52162 sdR-b1-00010859.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

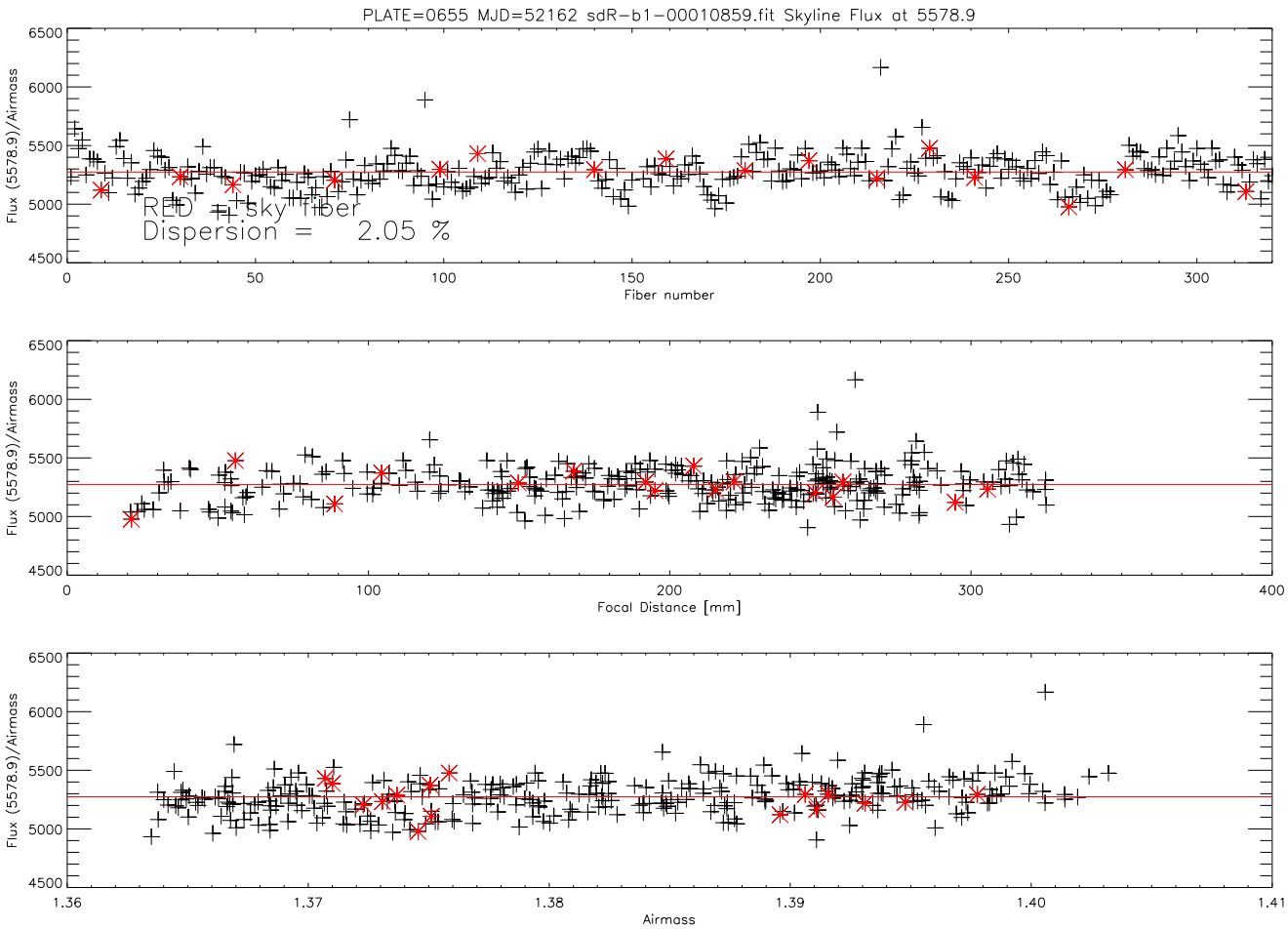

PLATE=0655 MJD=52162 sdR-b1-00010859.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

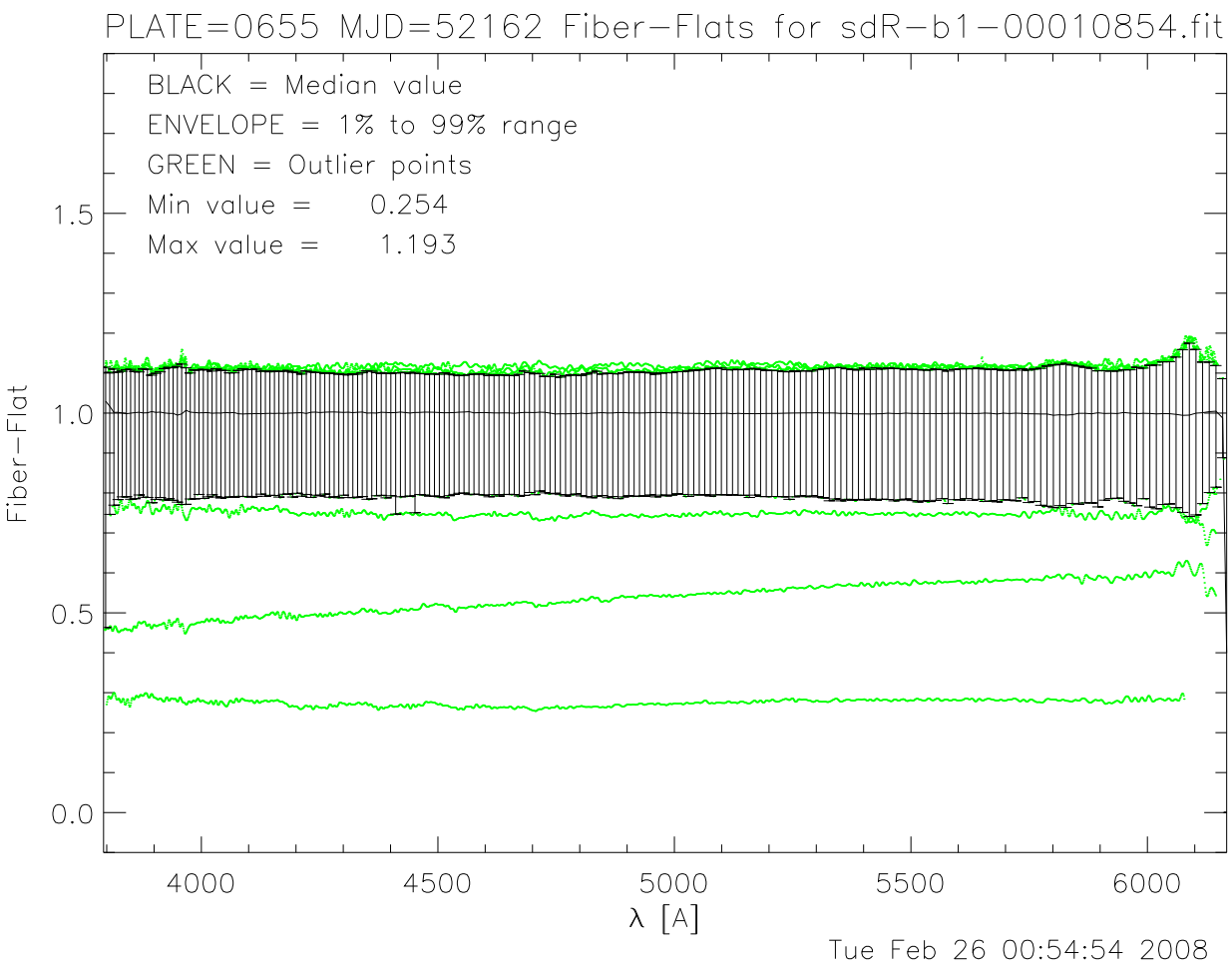

PLATE=0655 MJD=52162 sdR-b1-00010859.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

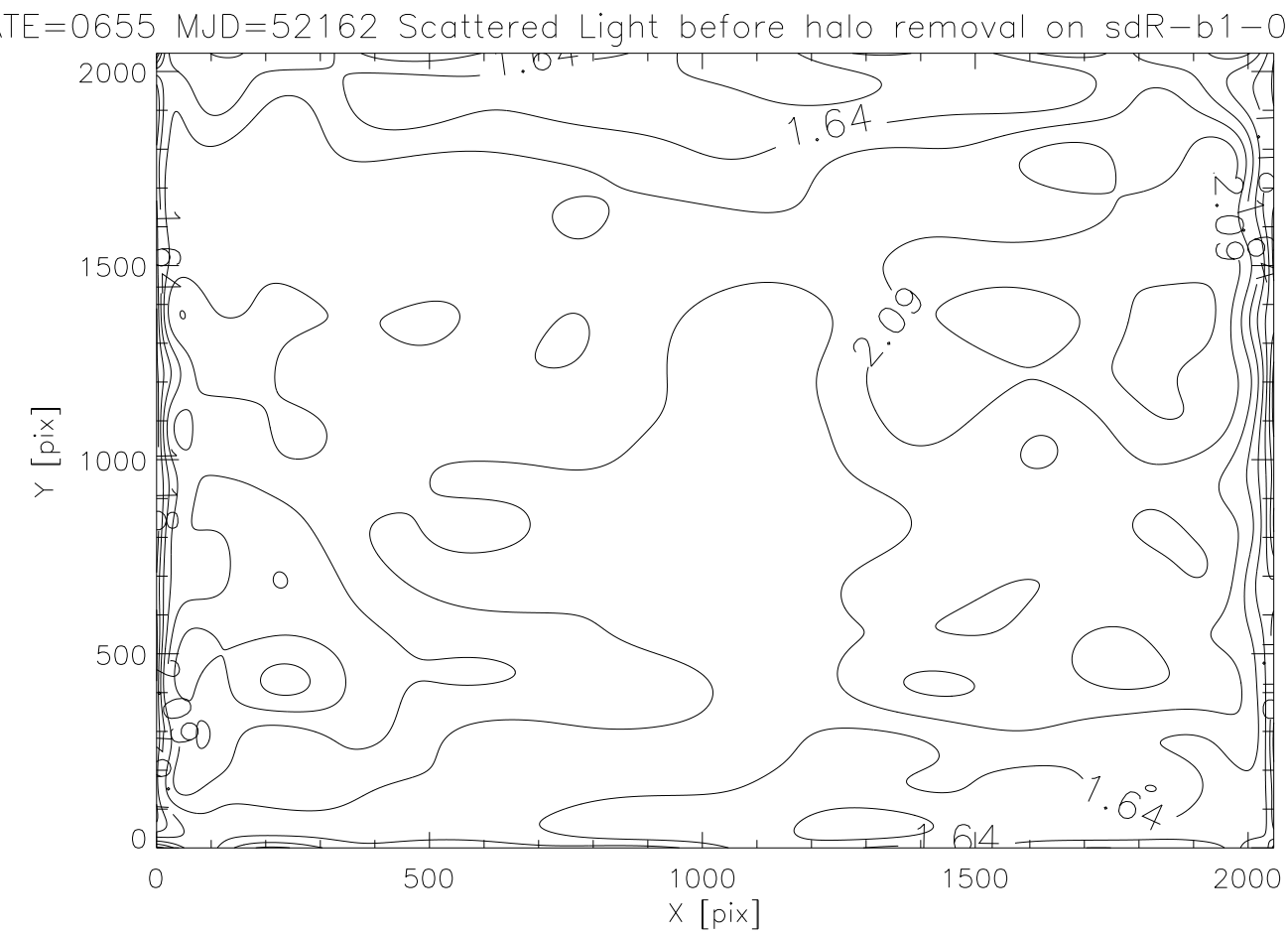

PLATE=0655 MJD=52162 sdR-b1-00010859.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
-150
5570
5575
5580
5585
5590
λ [A]

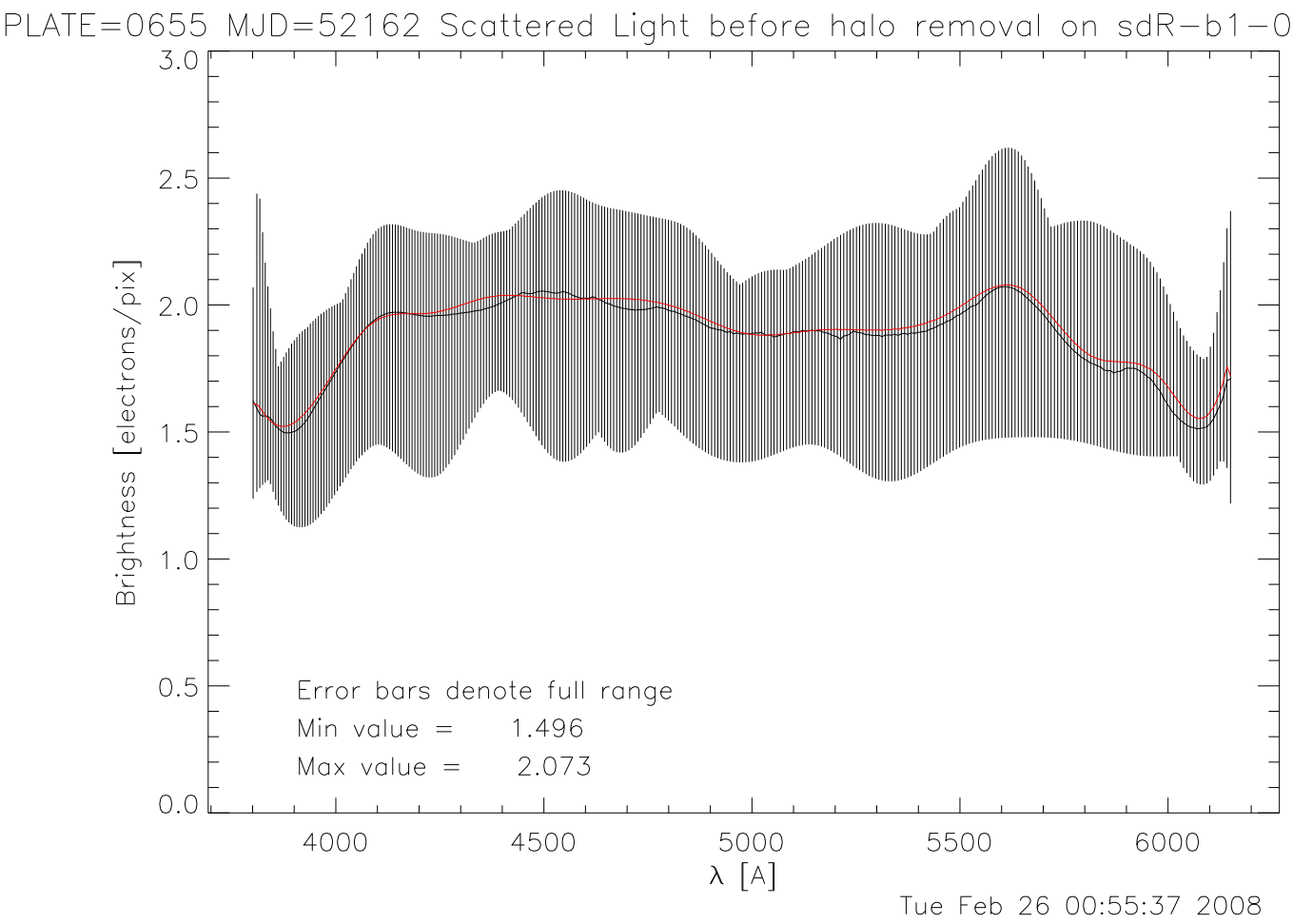

Number of sky fibers = 16
PLATE=0655 MJD=52162 sdR-b1-00010859.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

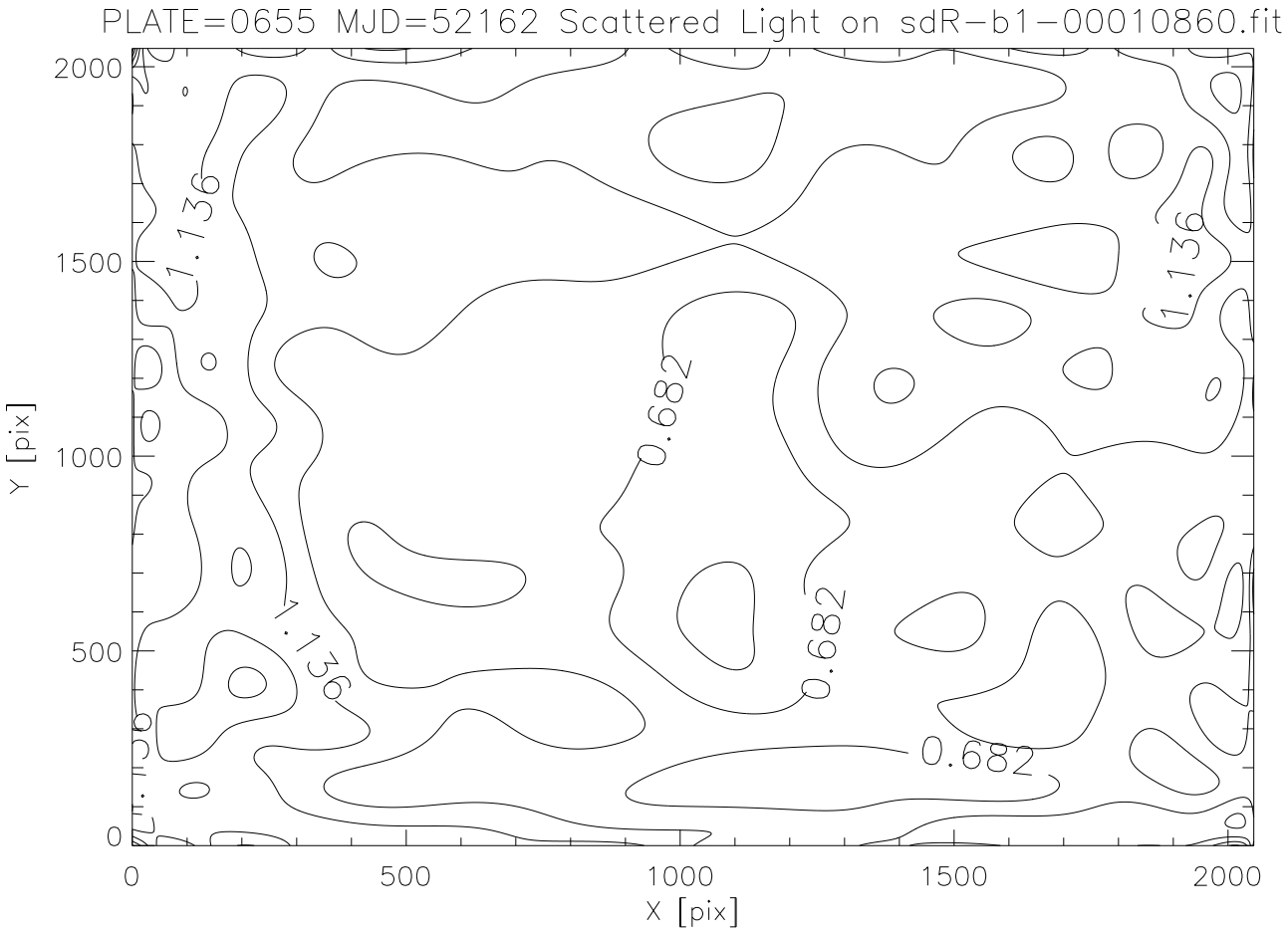

PLATE=0655 MJD=52162 sdR-b1-00010859.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 25.39 %
Fiber number
Focal Distance [mm]
Airmass

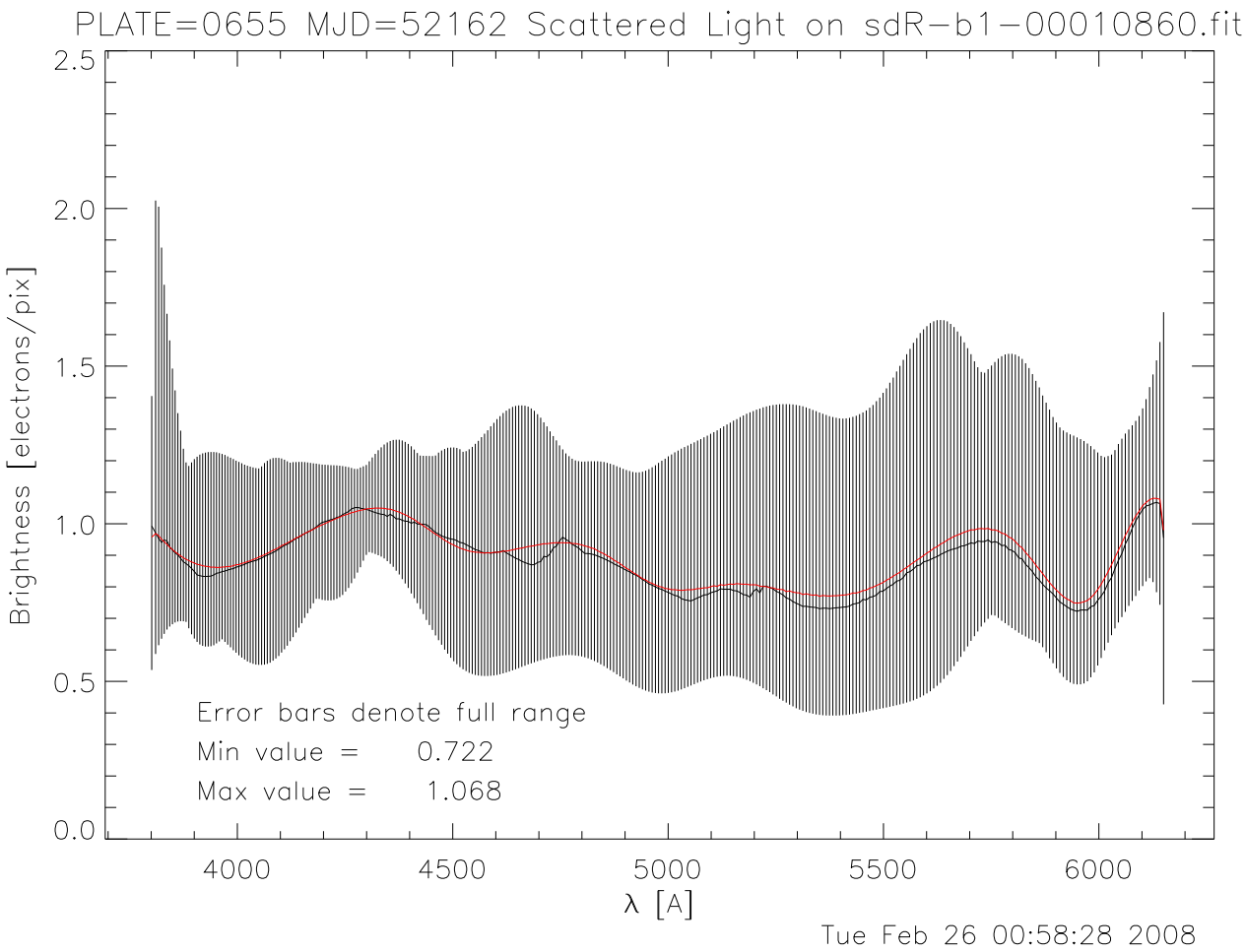

PLATE=0655 MJD=52162 sdR-b1-00010859.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED sky fiber
Dispersion = 2.05 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

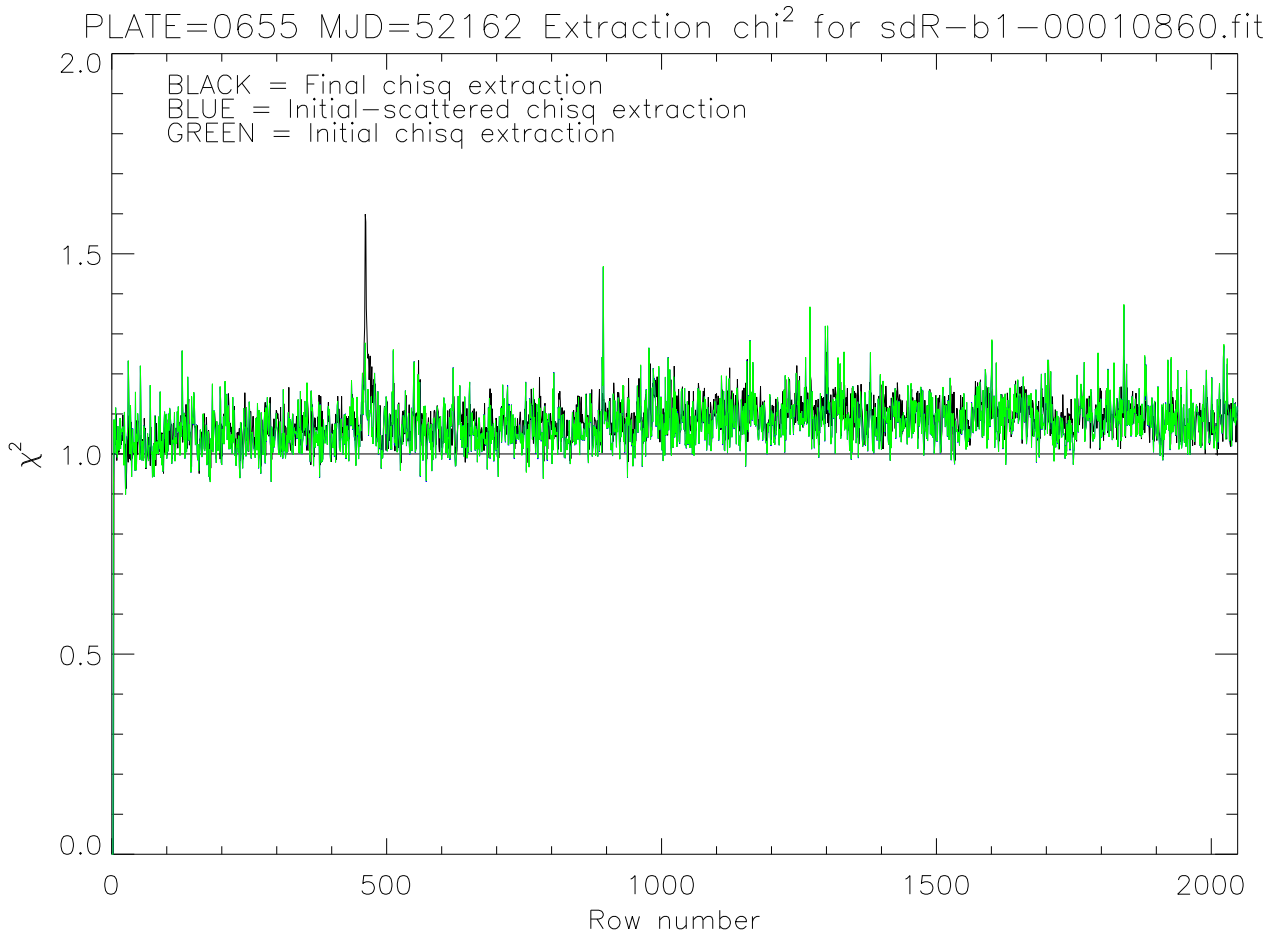

PLATE=0655 MJD=52162 Fiber-Flats for sdR-b1-00010854.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.254
Max value = 1.193
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 00:54:54 2008

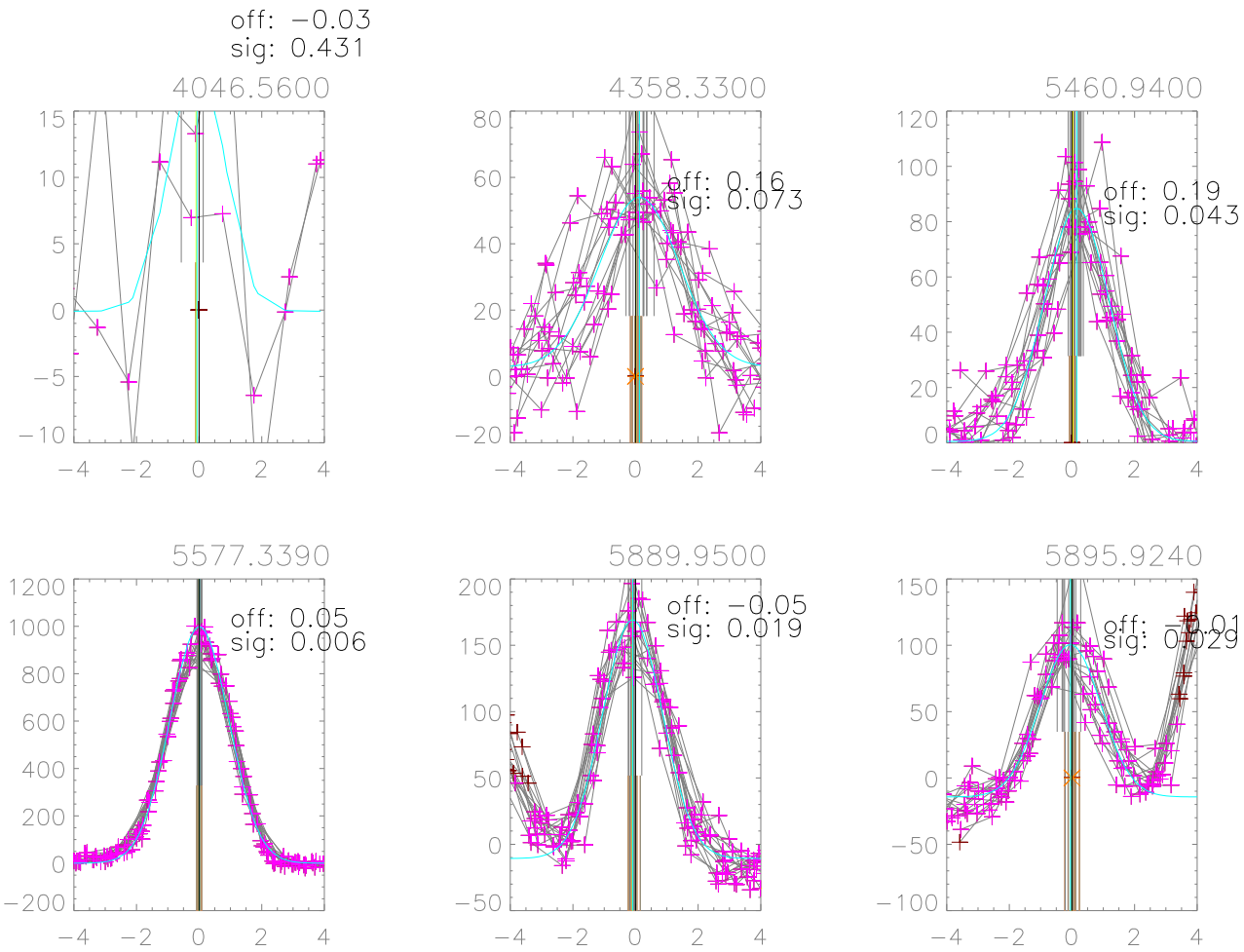

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-b1-00010860.f
1.64
1.64
2.09
2.09
1.64
1.64
2.09
2.09
1.64
1.64
2.09
2.09

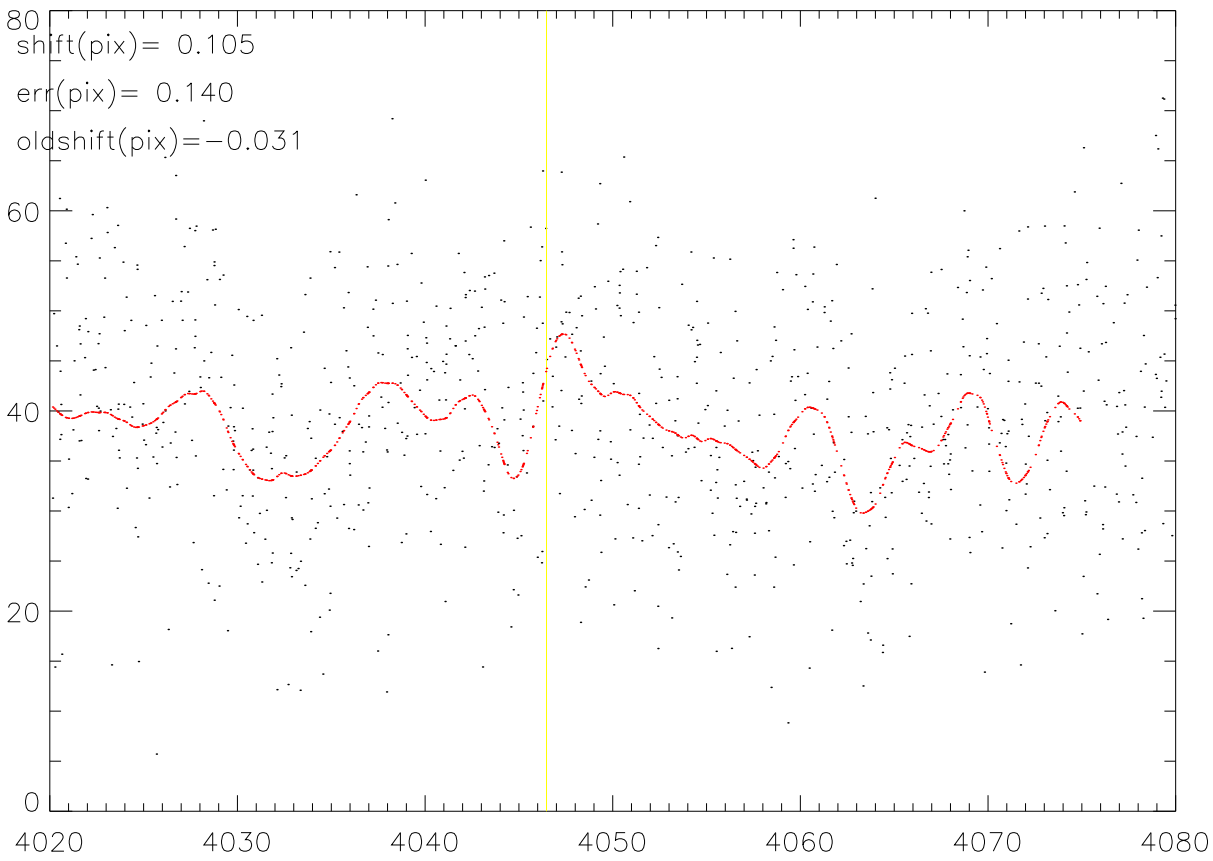

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-b1-00010860.f
Brightness [electrons/pix]
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Error bars denote full range
Min value = 1.496
Max value = 2.073
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 00:55:37 2008

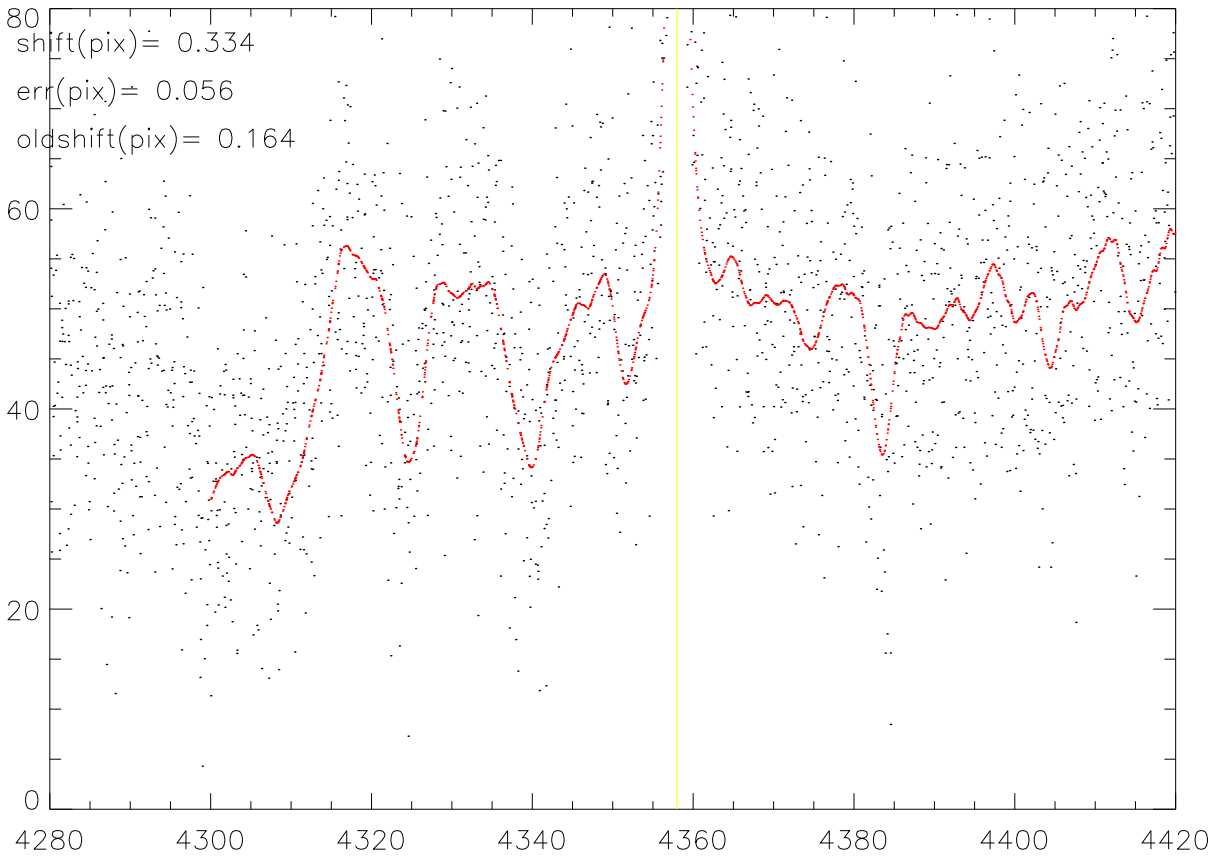

PLATE=0655 MJD=52162 Scattered Light on sdR-b1-00010860.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
1.136
0.682

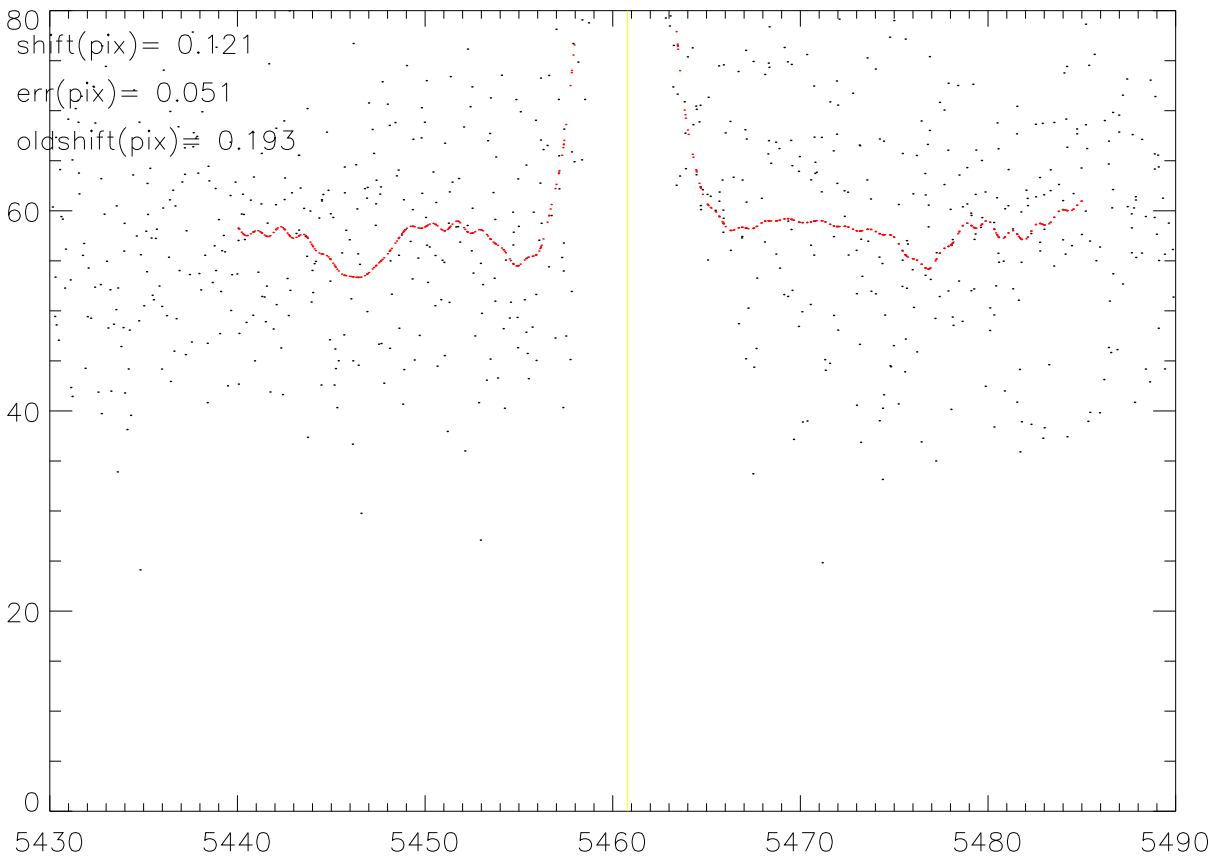

PLATE=0655 MJD=52162 Scattered Light on sdR-b1-00010860.fit
Brightness [electrons/pix]
2.5
2.0
1.5
1.0
0.5
0.0
Error bars denote full range
Min value = 0.722
Max value = 1.068
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 00:58:28 2008

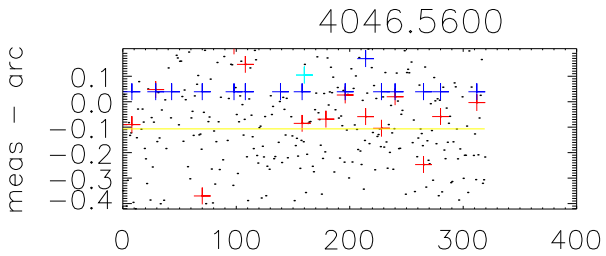

PLATE=0655 MJD=52162 Extraction chi^2 for sdR-b1-00010860.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

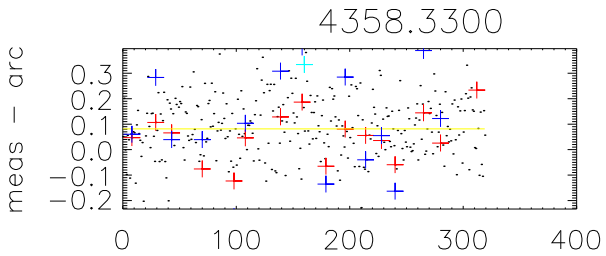

4046.5600
off: −0.03
sig: 0.431
4358.3300
off: 0.16
sig: 0.073
5460.9400
off: 0.19
sig: 0.043
5577.3390
off: 0.05
sig: 0.006
5889.9500
off: −0.05
sig: 0.019
5895.9240
off: −0.01
sig: 0.029

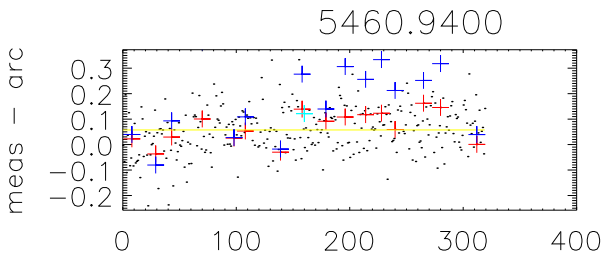

shift(pix)= 0.105
err(pix)= 0.140
oldshift(pix)=−0.031
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

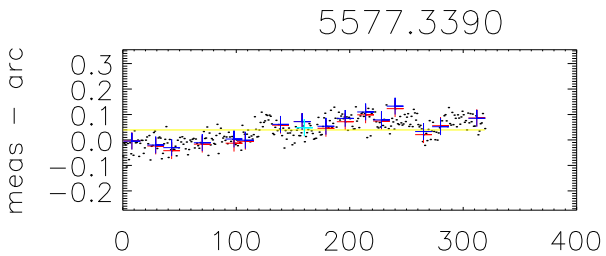

shift(pix)= 0.334
err(pix)= 0.056
oldshift(pix)= 0.164
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

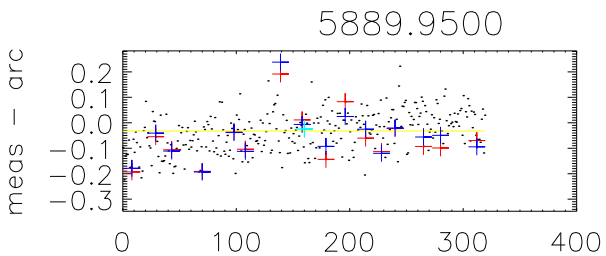

shift(pix)= 0.121
err(pix)= 0.051
oldshift(pix)= 0.193
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

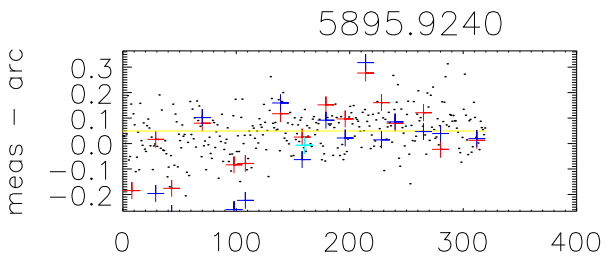

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

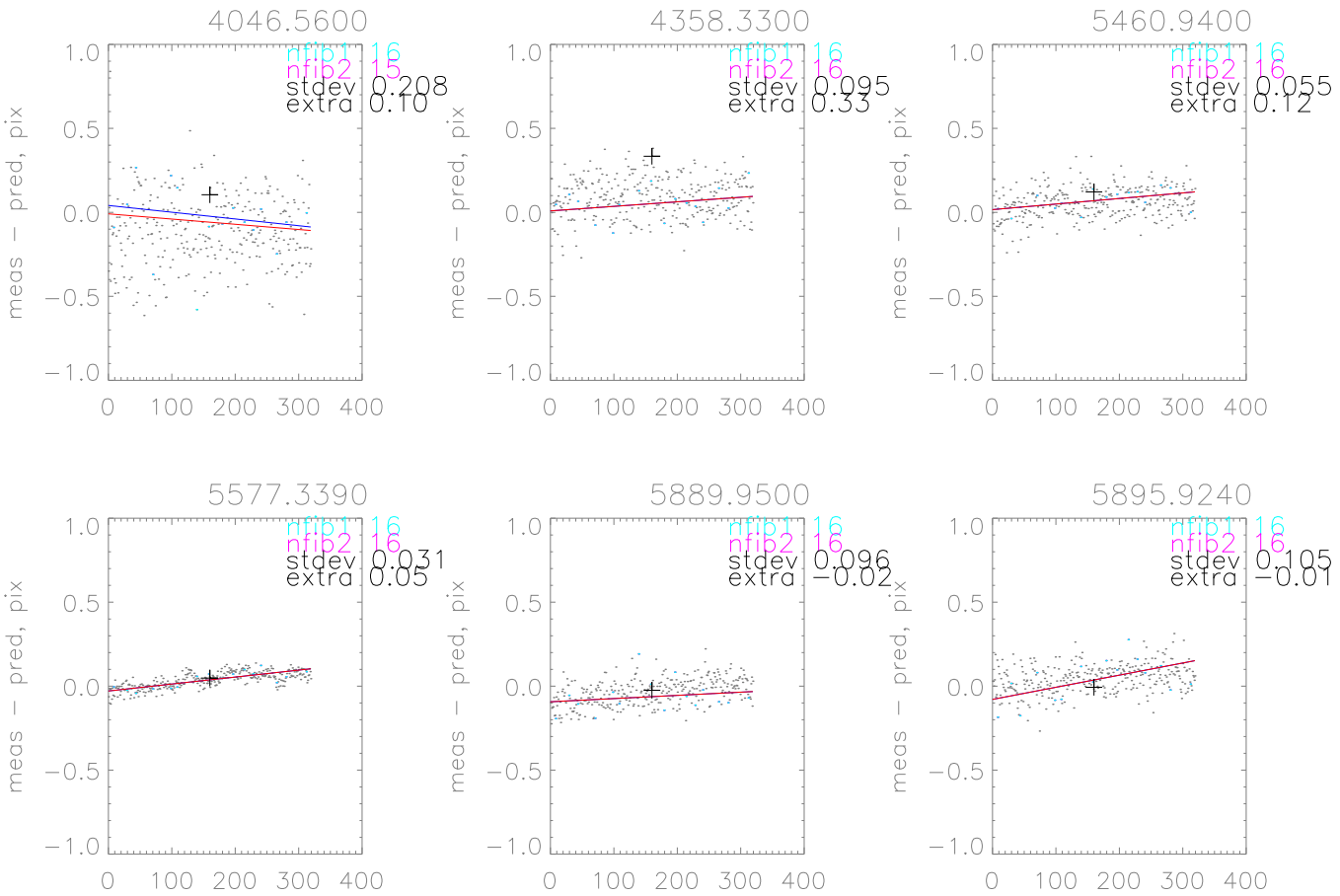

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

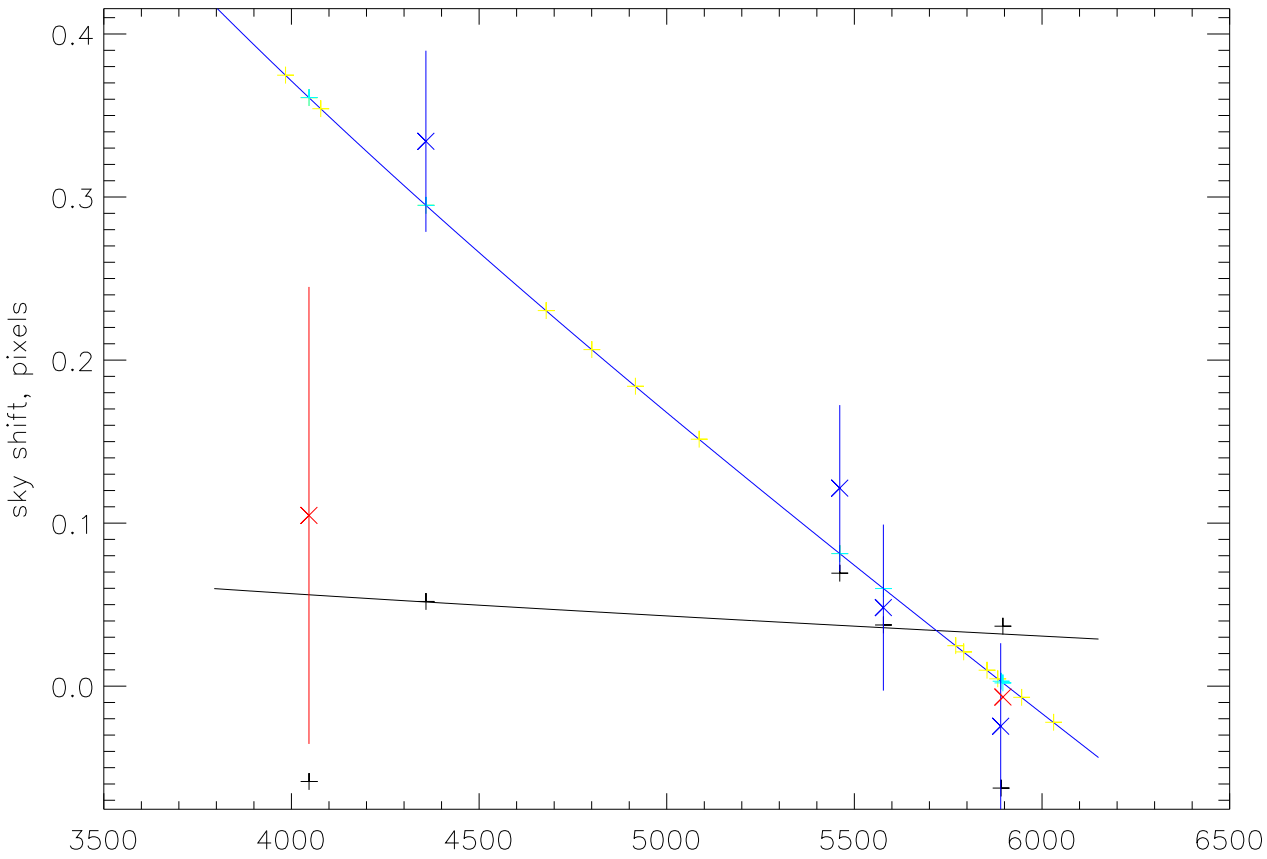

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

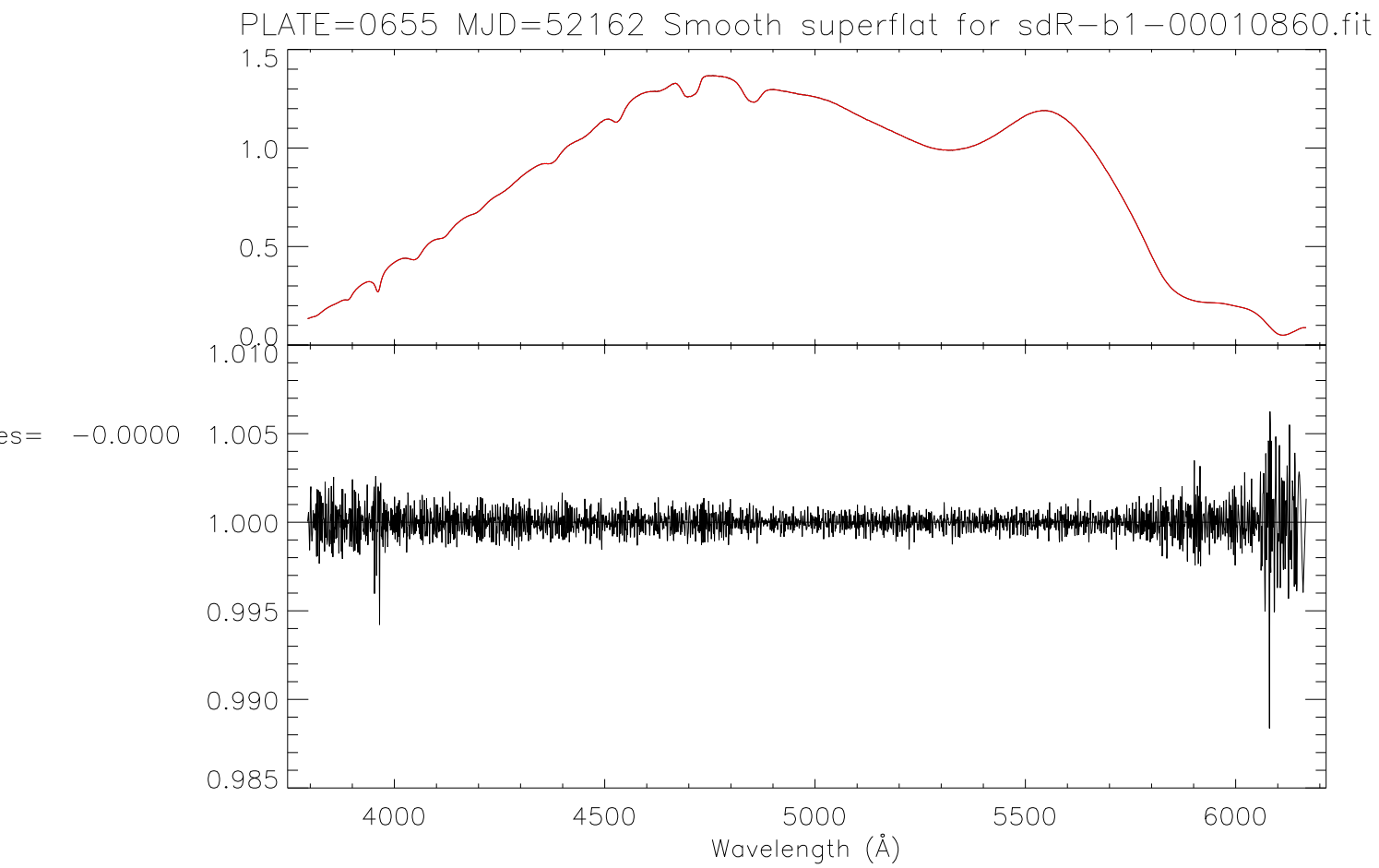

5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

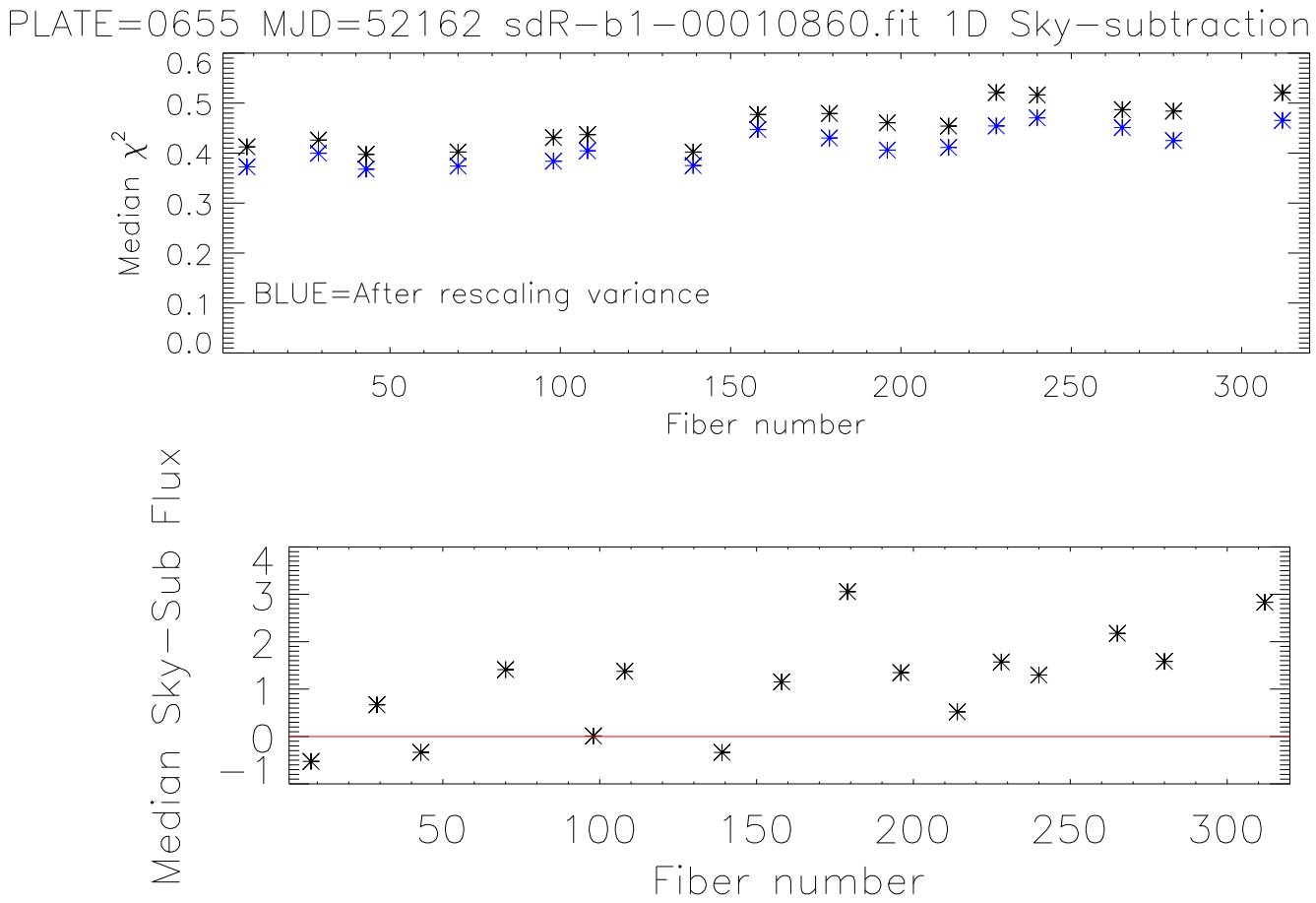

5889.9500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

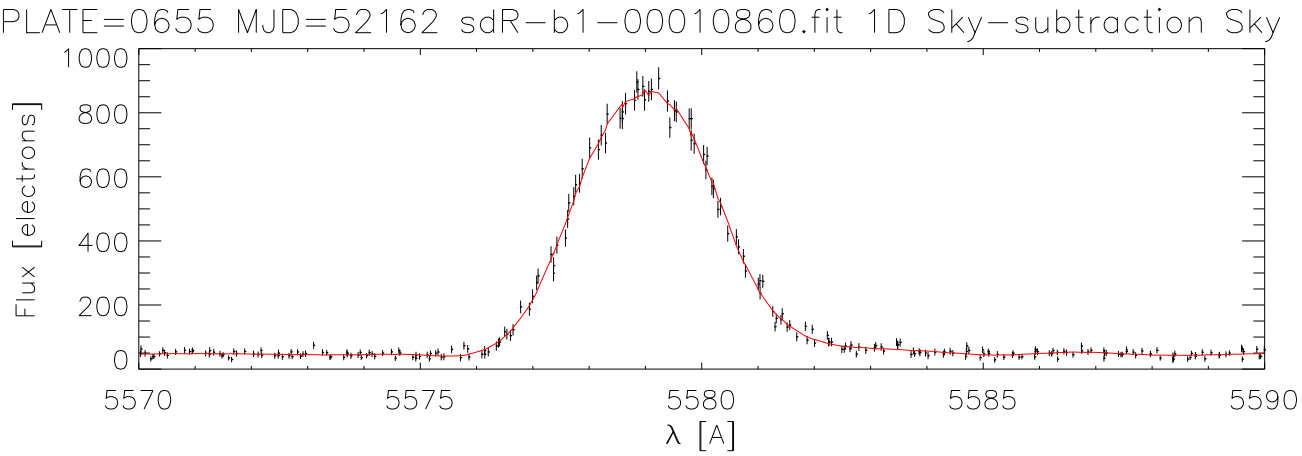

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

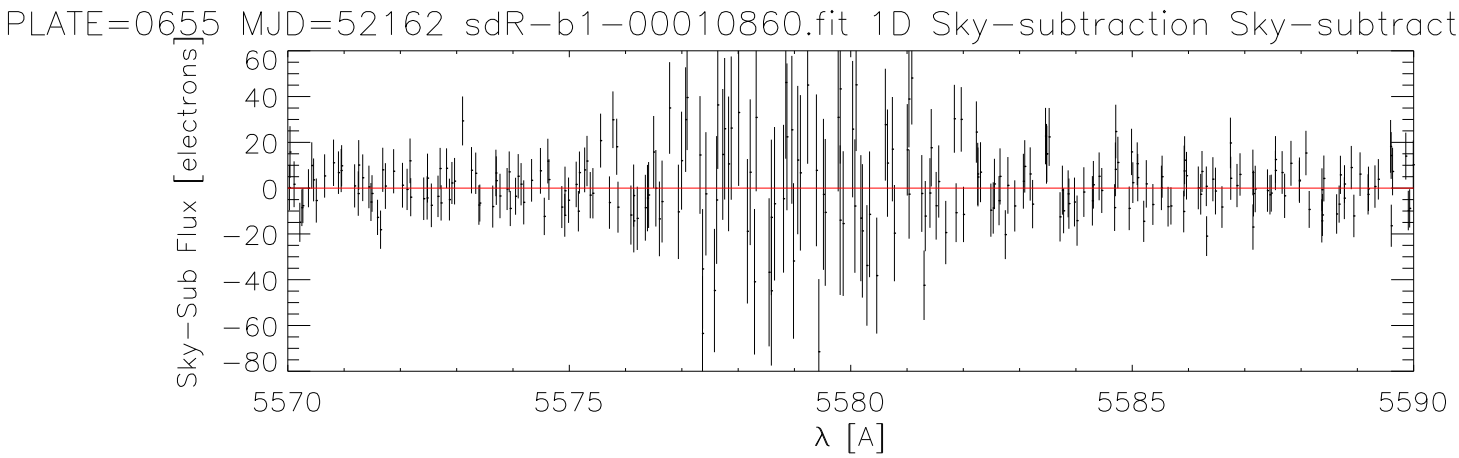

4046.5600
nfib1 16
nfib2 15
stdev 0.208
extra 0.10
4358.3300
nfib1 16
nfib2 16
stdev 0.095
extra 0.33
5460.9400
nfib1 16
nfib2 16
stdev 0.055
extra 0.12
5577.3390
nfib1 16
nfib2 16
stdev 0.031
extra 0.05
5889.9500
nfib1 16
nfib2 16
stdev 0.096
extra −0.02
5895.9240
nfib1 16
nfib2 16
stdev 0.105
extra −0.01
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

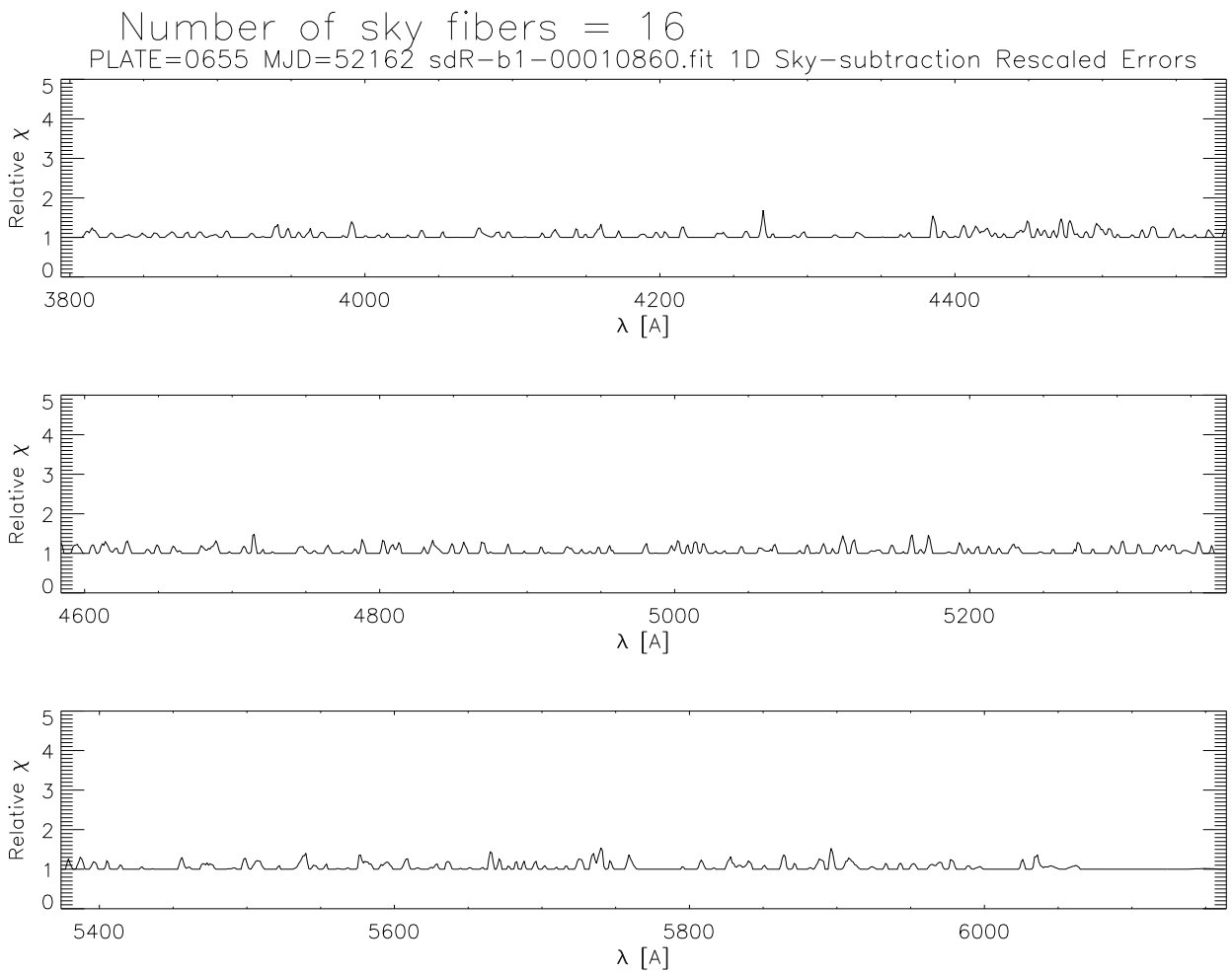

0.4
0.3
0.2
0.1
0.0
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

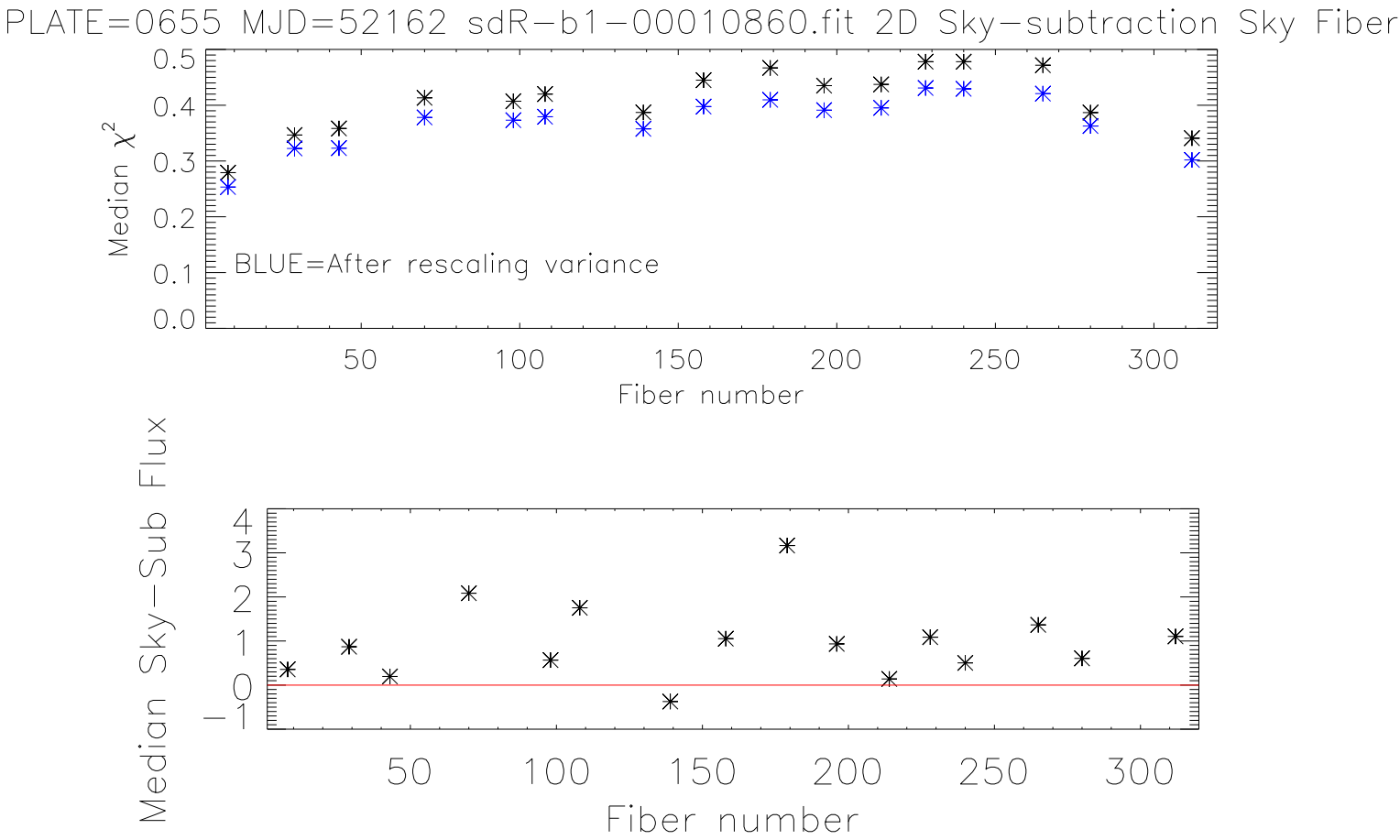

PLATE=0655 MJD=52162 Smooth superflat for sdR-b1-00010860.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

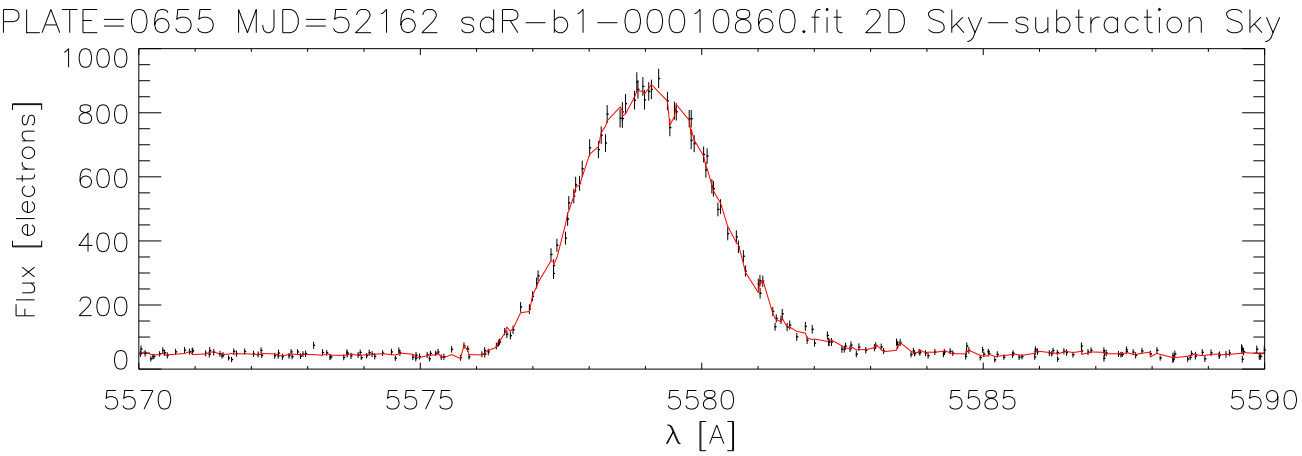

PLATE=0655 MJD=52162 sdR-b1-00010860.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

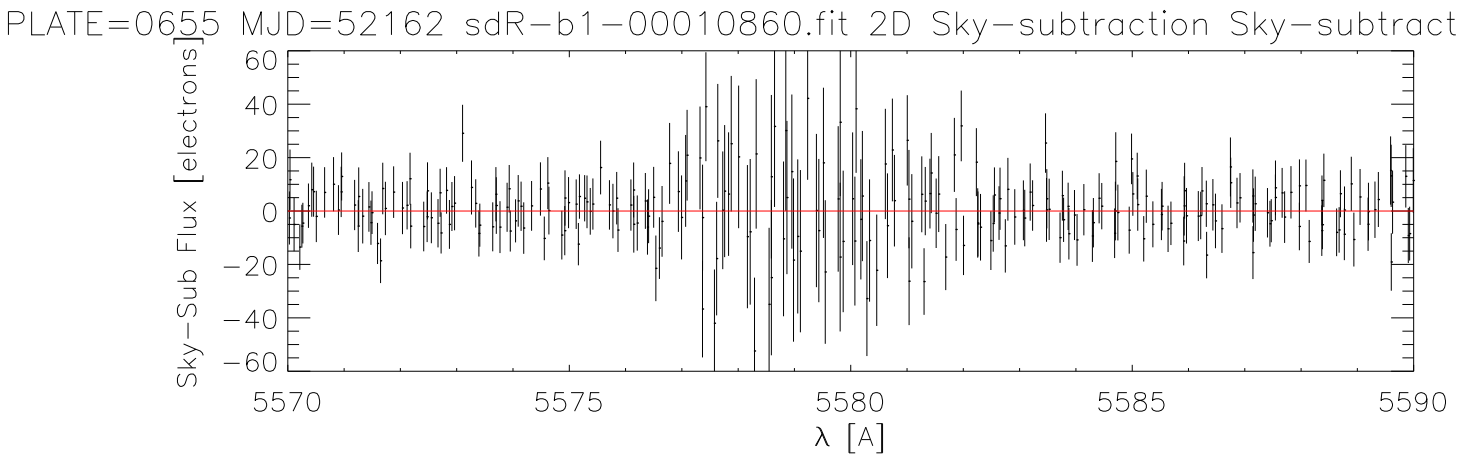

PLATE=0655 MJD=52162 sdR-b1-00010860.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1000
800
600
400
200
0
5570
5575
5580
5585
5590
λ [A]

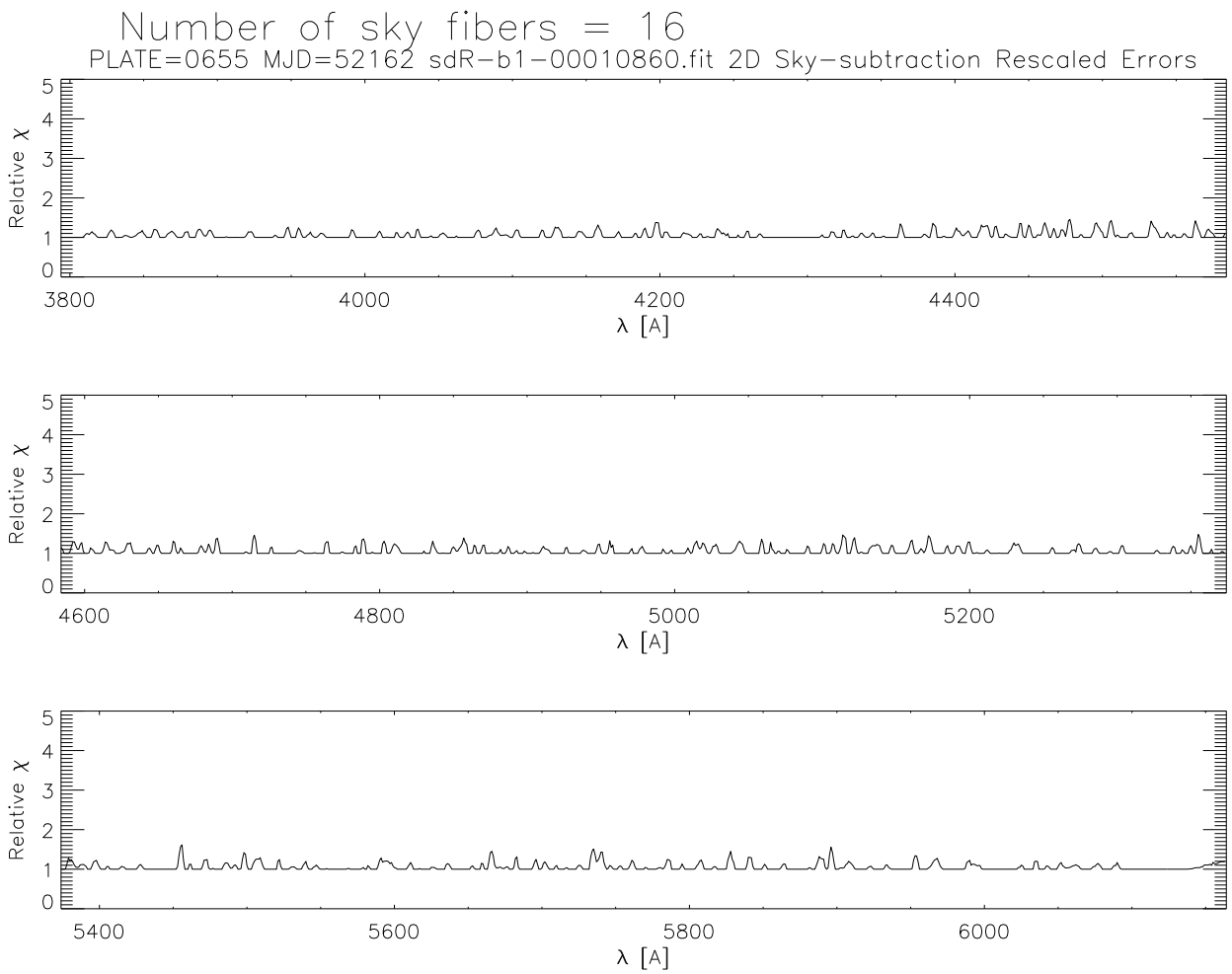

PLATE=0655 MJD=52162 sdR-b1-00010860.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
60
40
20
0
-20
-40
-60
-80
5570
5575
5580
5585
5590
λ [A]

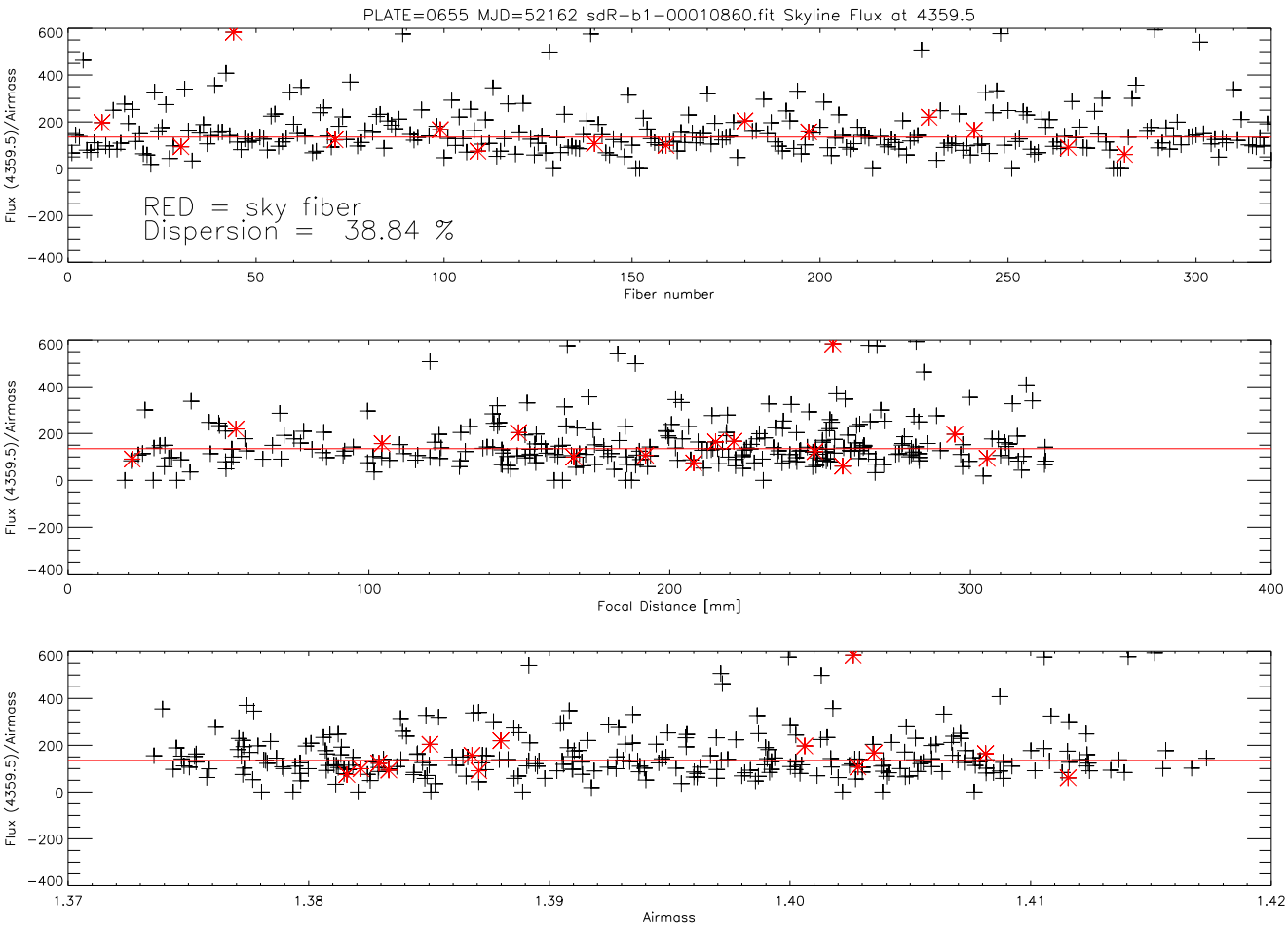

Number of sky fibers = 16
PLATE=0655 MJD=52162 sdR-b1-00010860.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

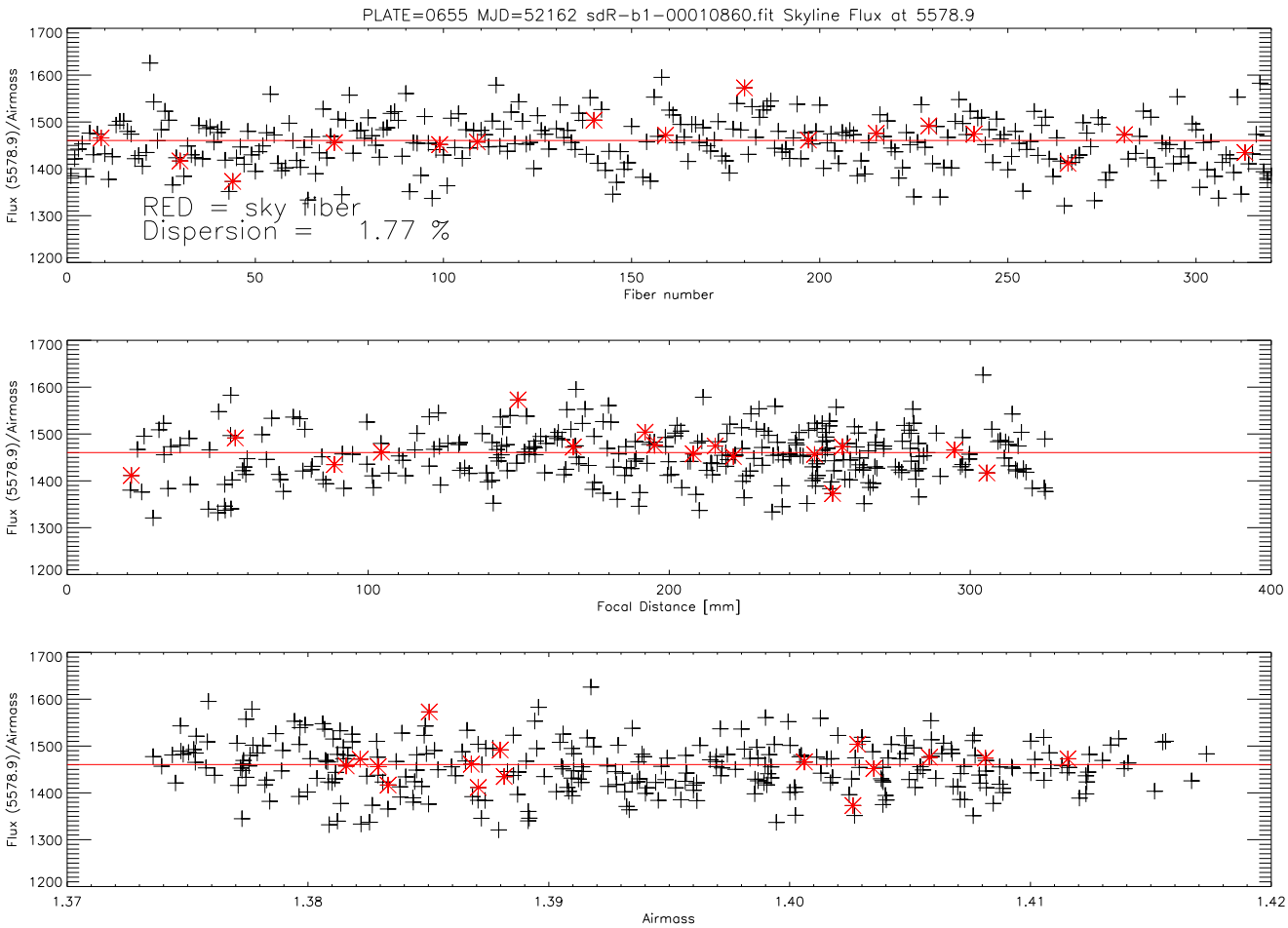

PLATE=0655 MJD=52162 sdR-b1-00010860.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

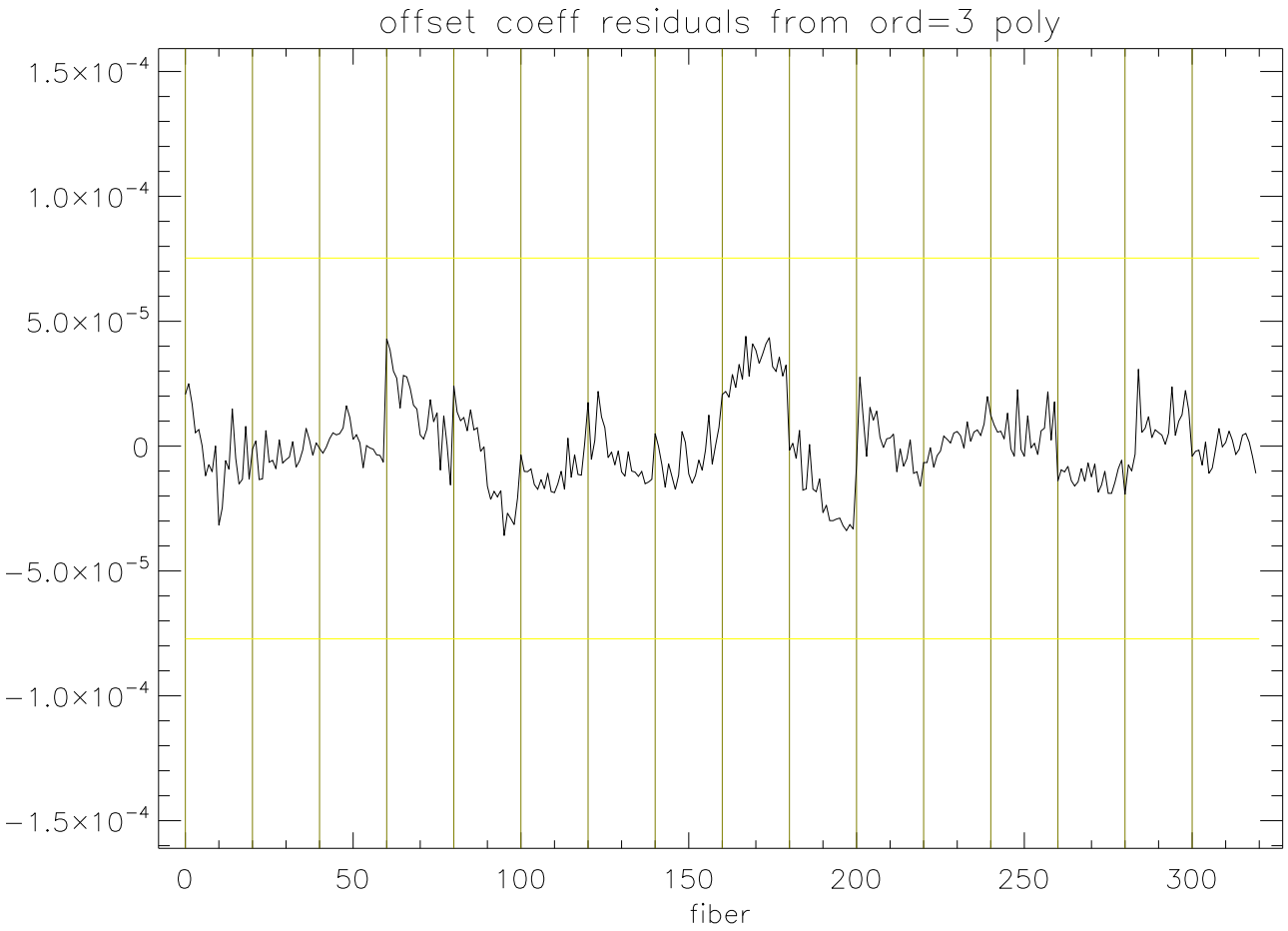

PLATE=0655 MJD=52162 sdR-b1-00010860.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1000
800
600
400
200
0
5570
5575
5580
5585
5590
λ [A]

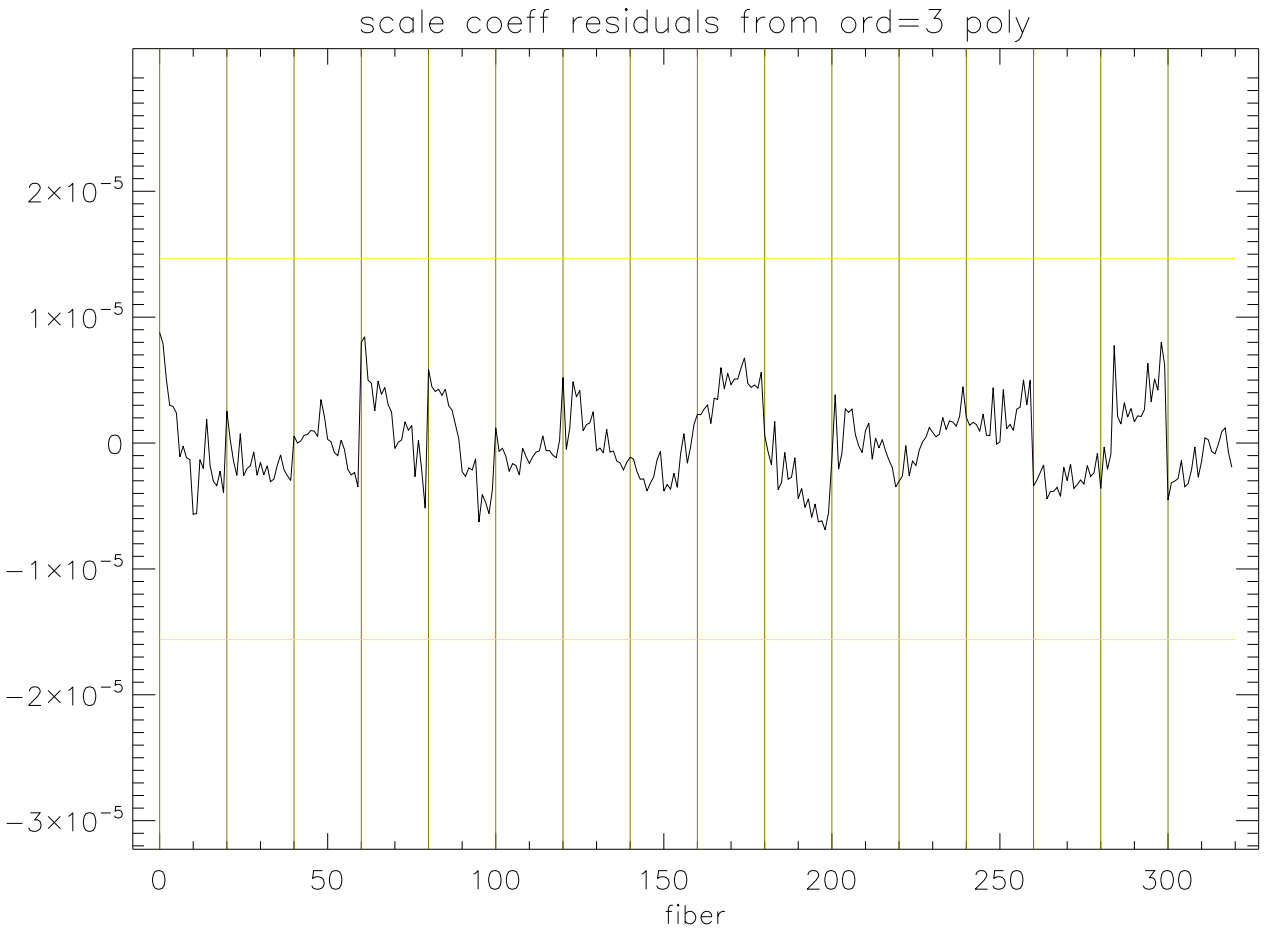

PLATE=0655 MJD=52162 sdR-b1-00010860.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
60
40
20
0
-20
-40
-60
5570
5575
5580
5585
5590
λ [A]

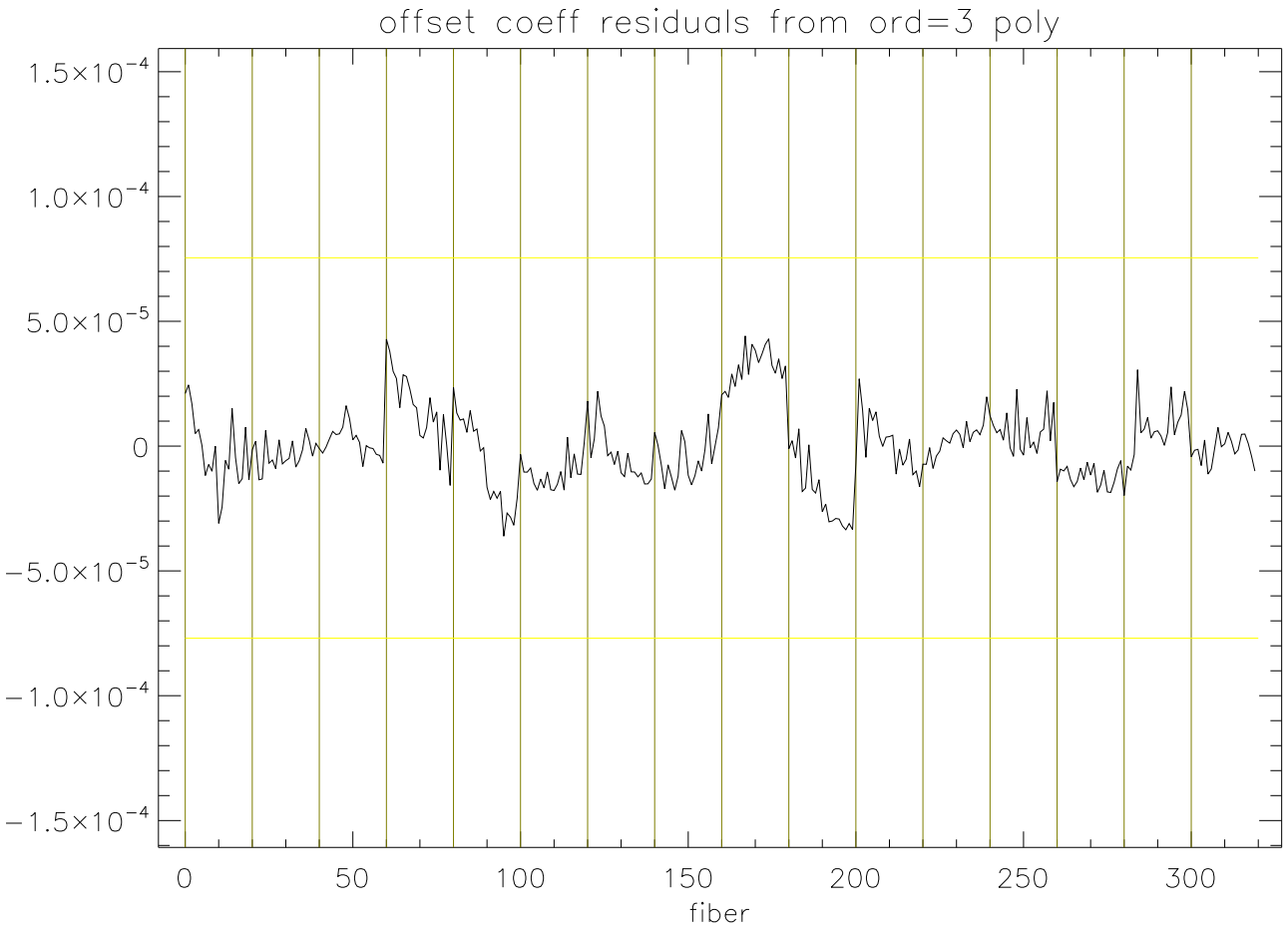

Number of sky fibers = 16
PLATE=0655 MJD=52162 sdR-b1-00010860.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

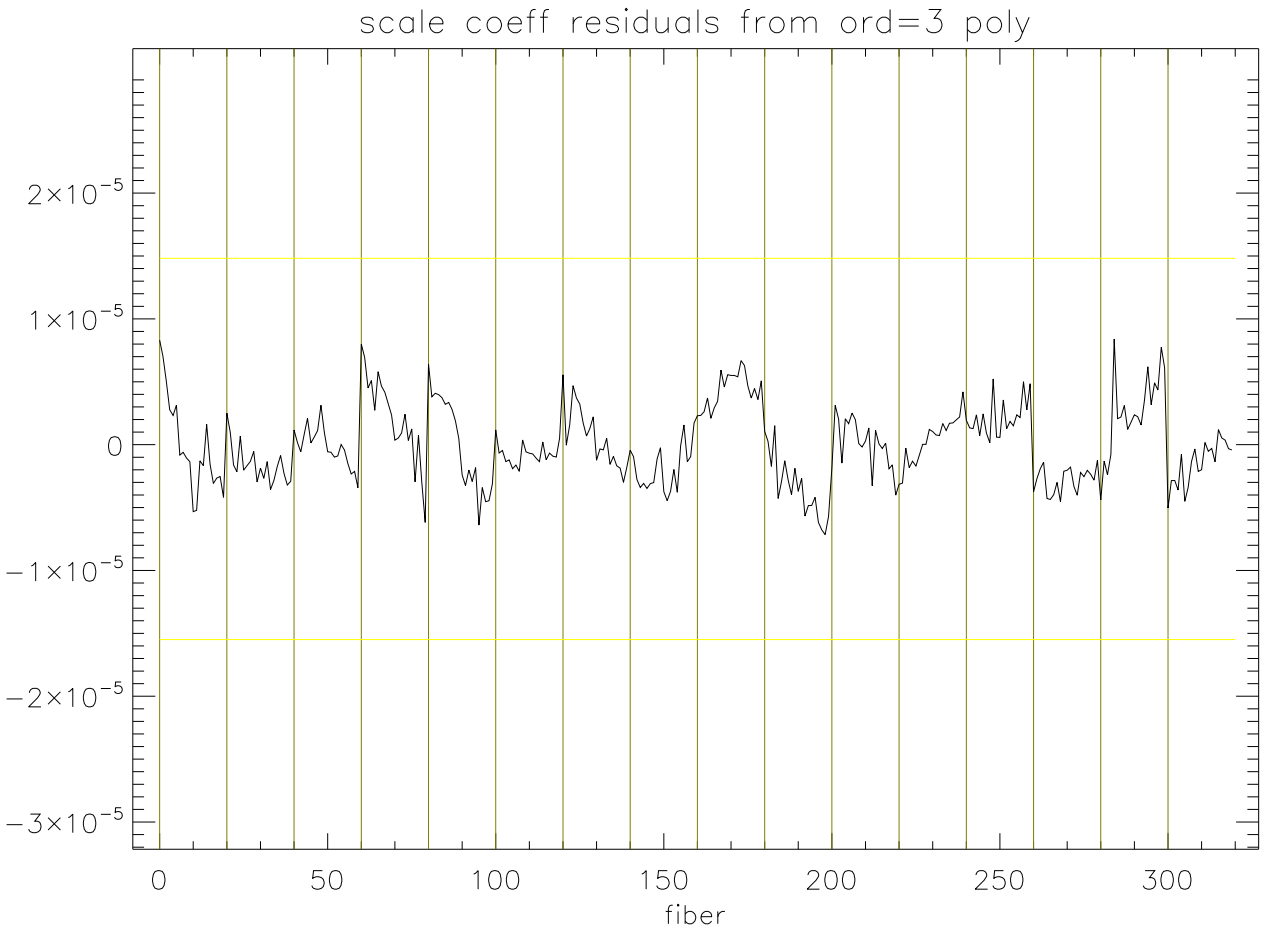

PLATE=0655 MJD=52162 sdR-b1-00010860.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 38.84 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

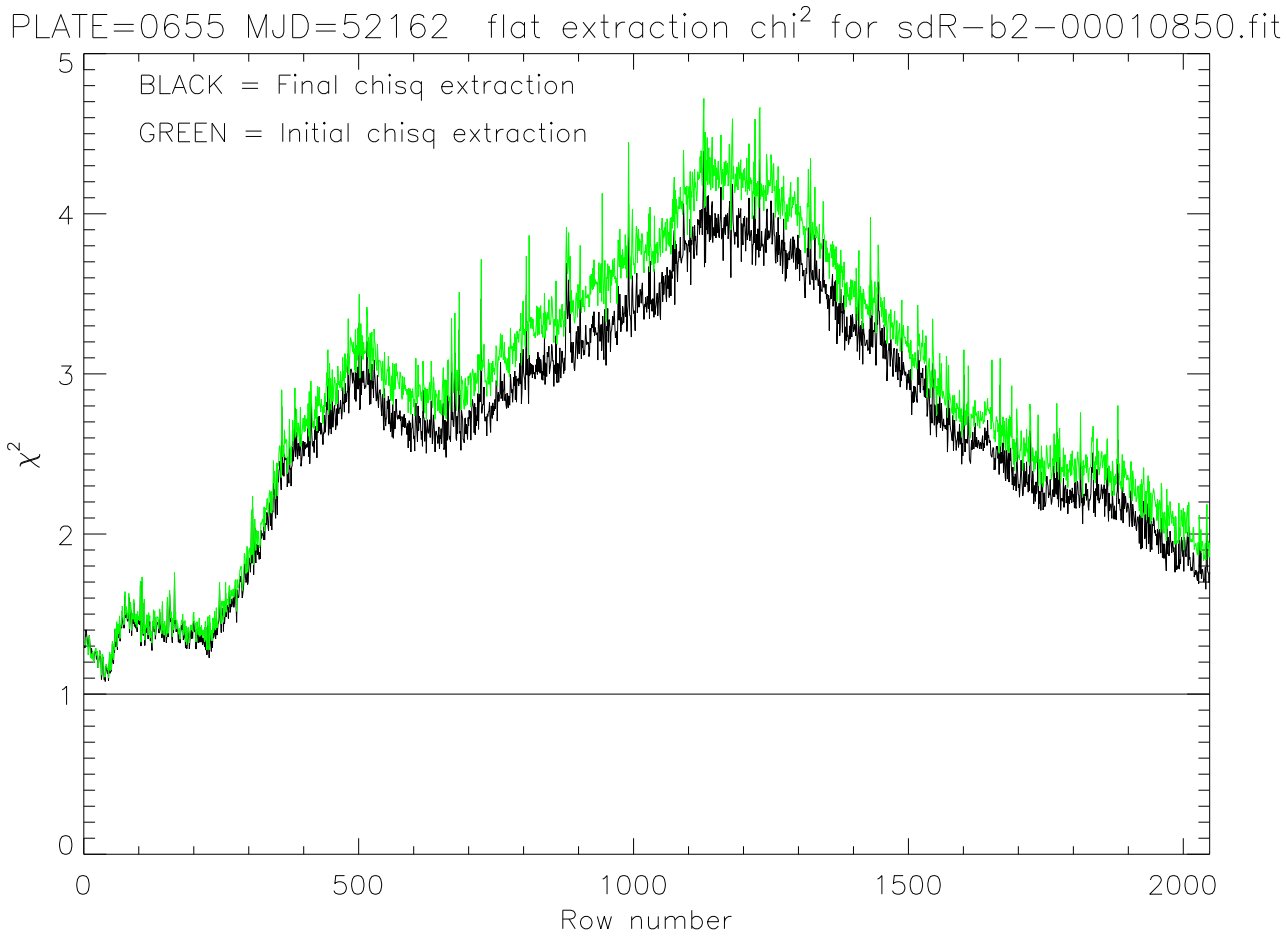

PLATE=0655 MJD=52162 sdR-b1-00010860.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.77 %
Fiber number
Focal Distance [mm]
Airmass

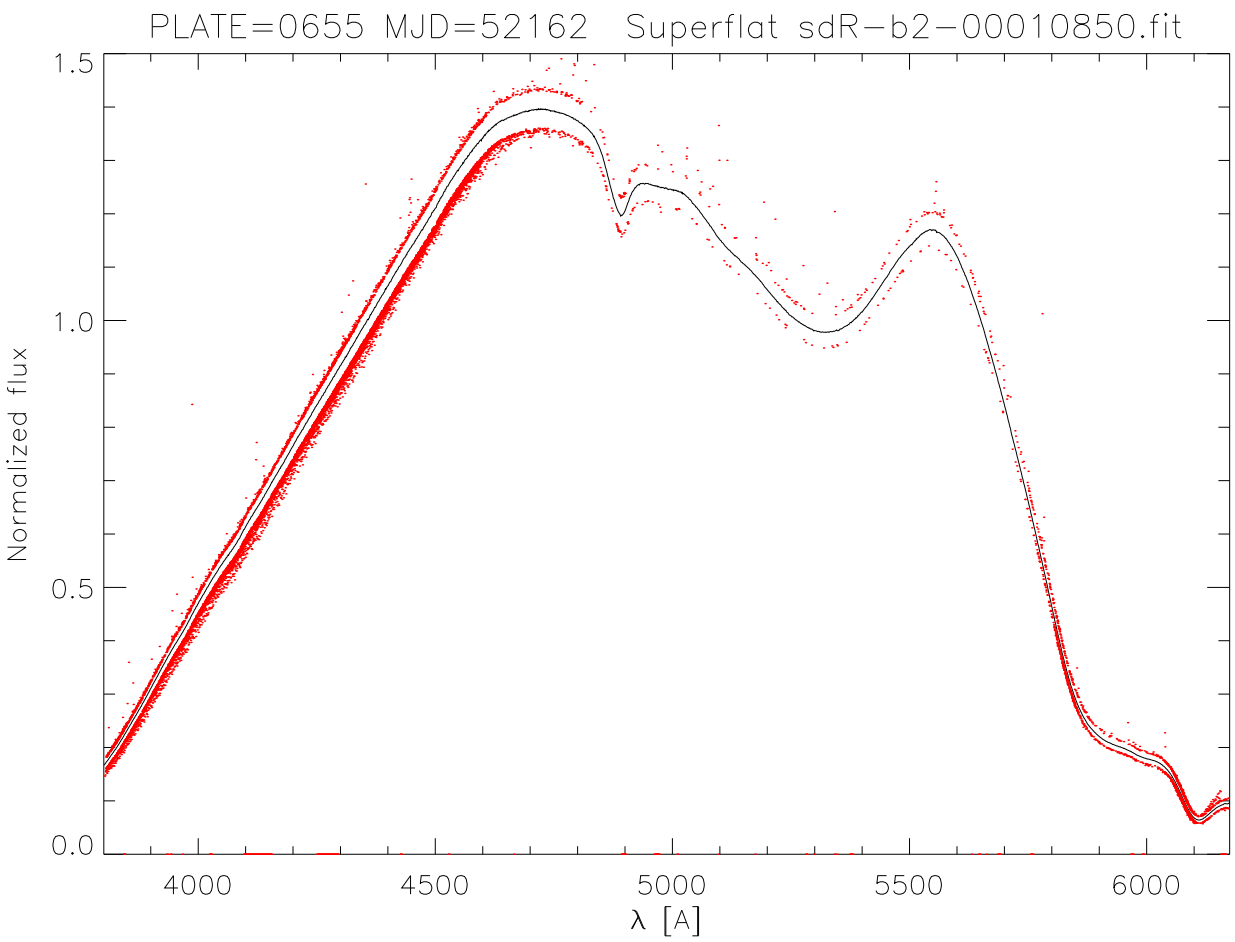

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

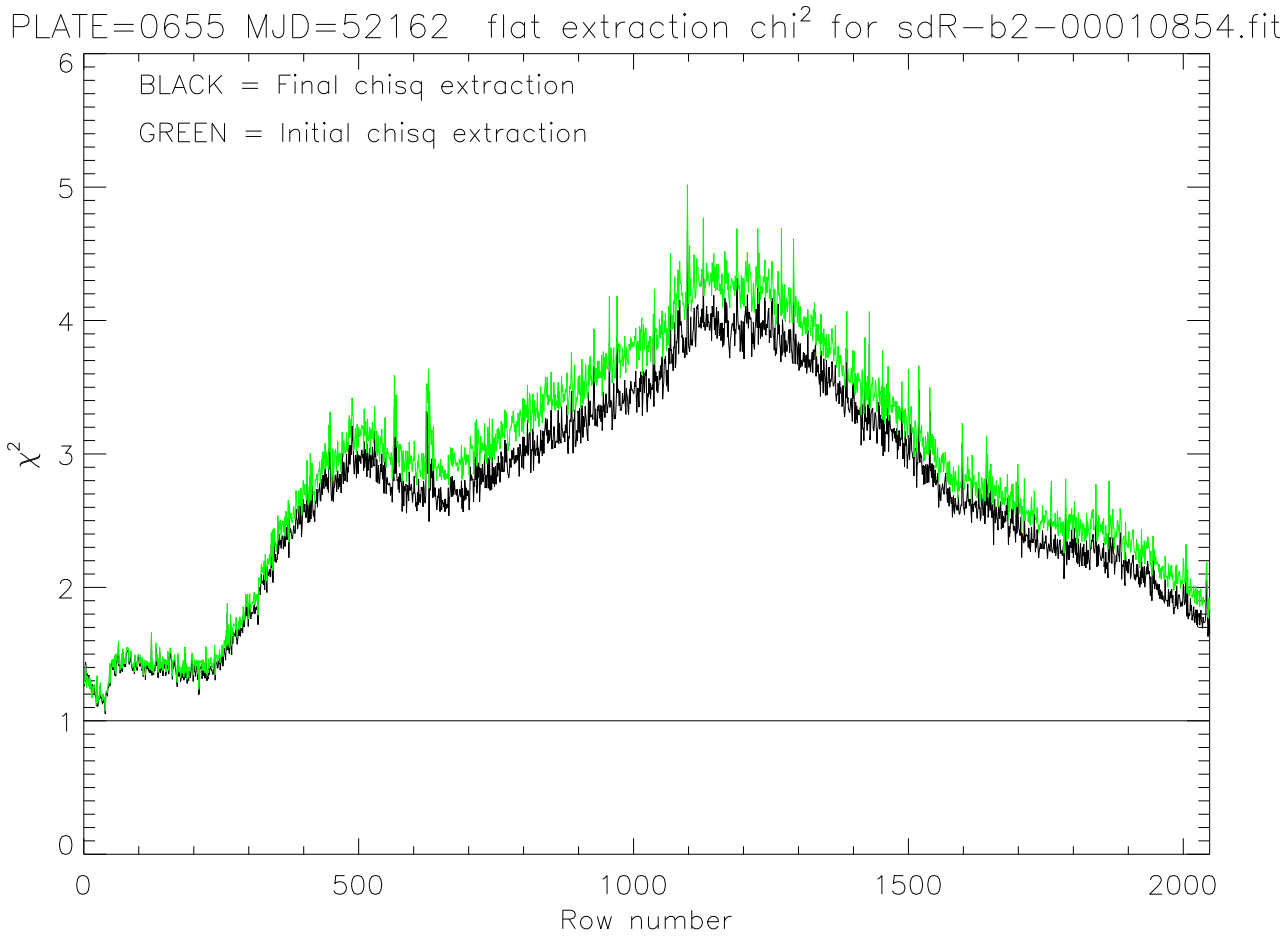

scale coeff residuals from ord=3 poly
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

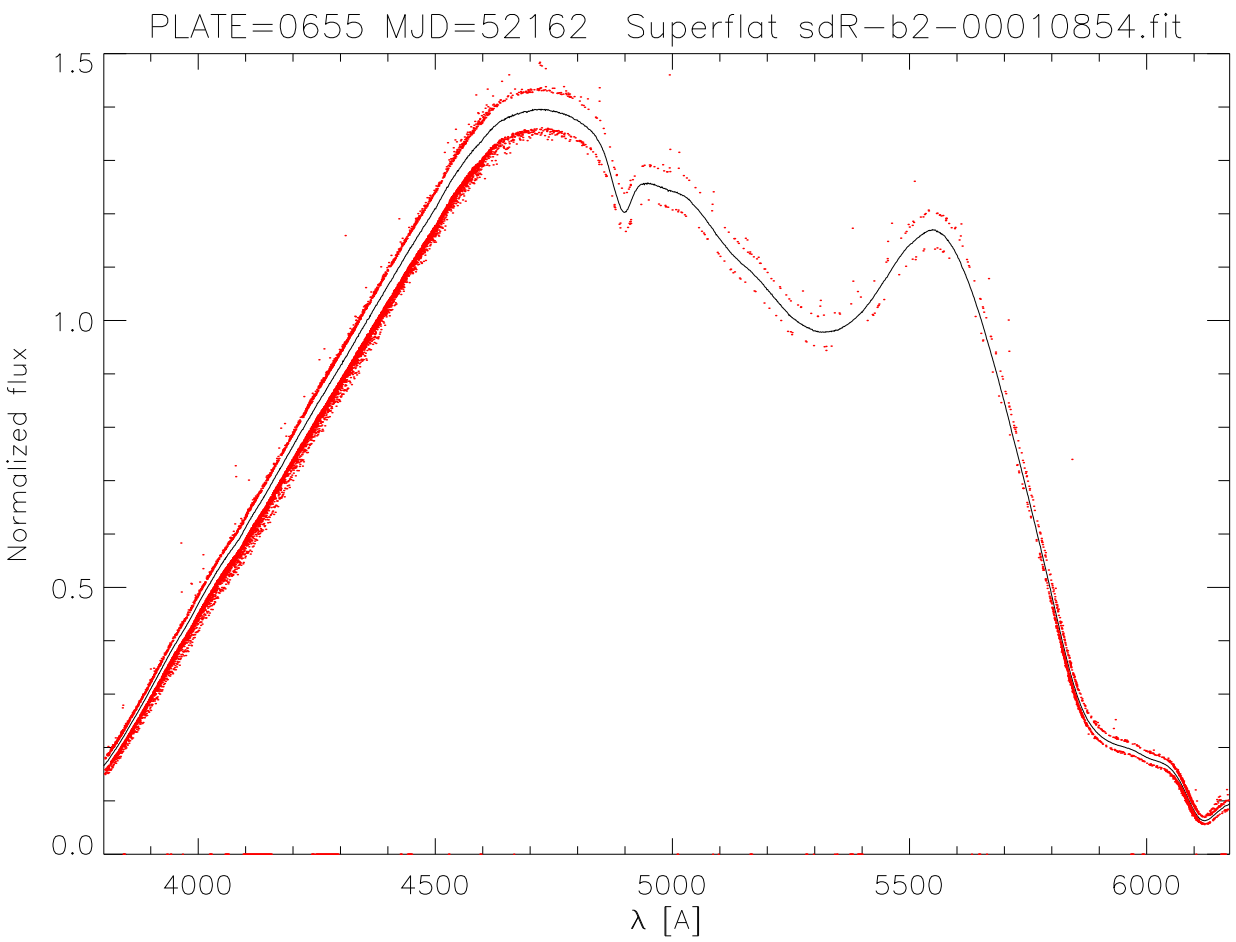

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

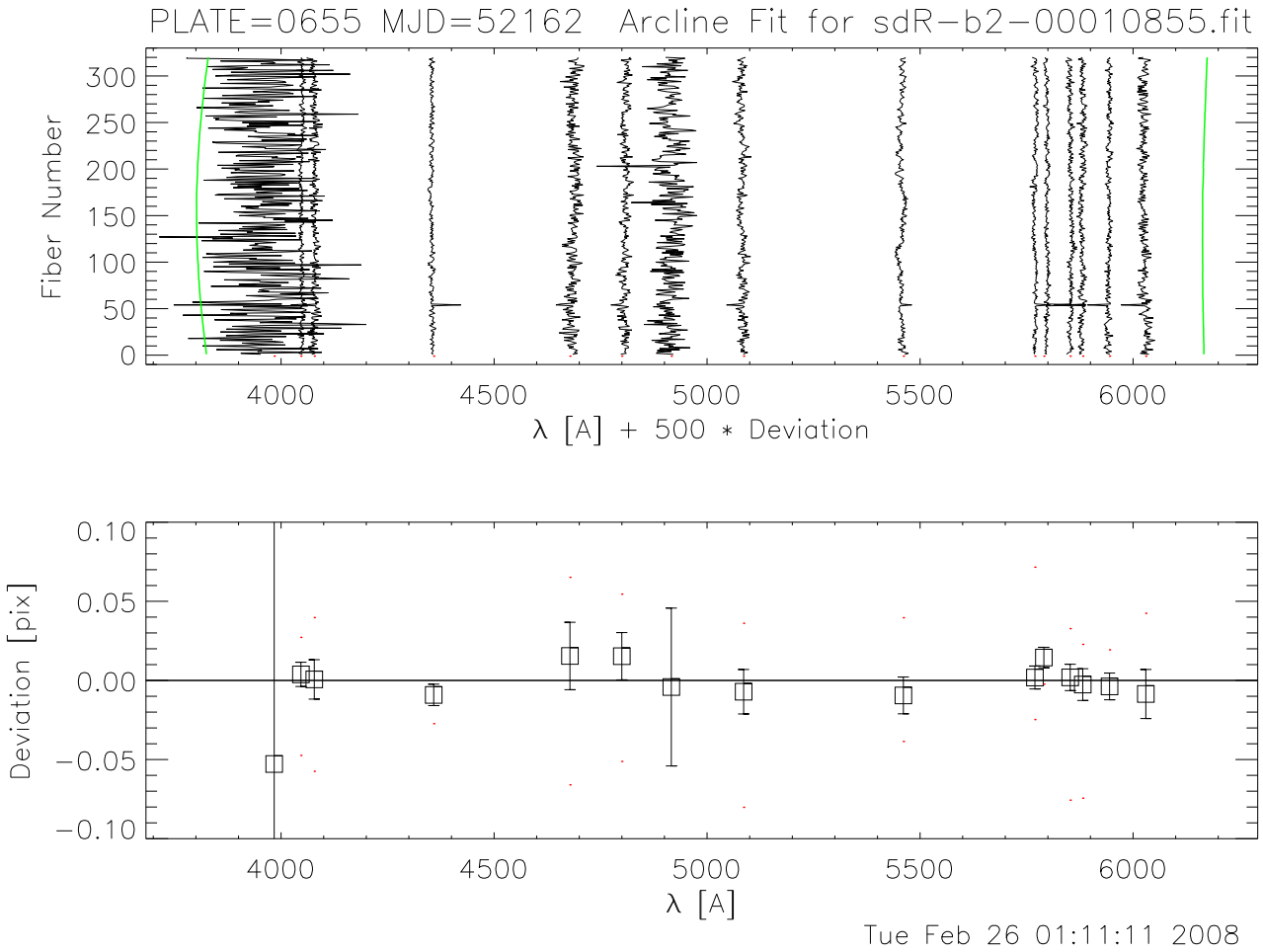

scale coeff residuals from ord=3 poly
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

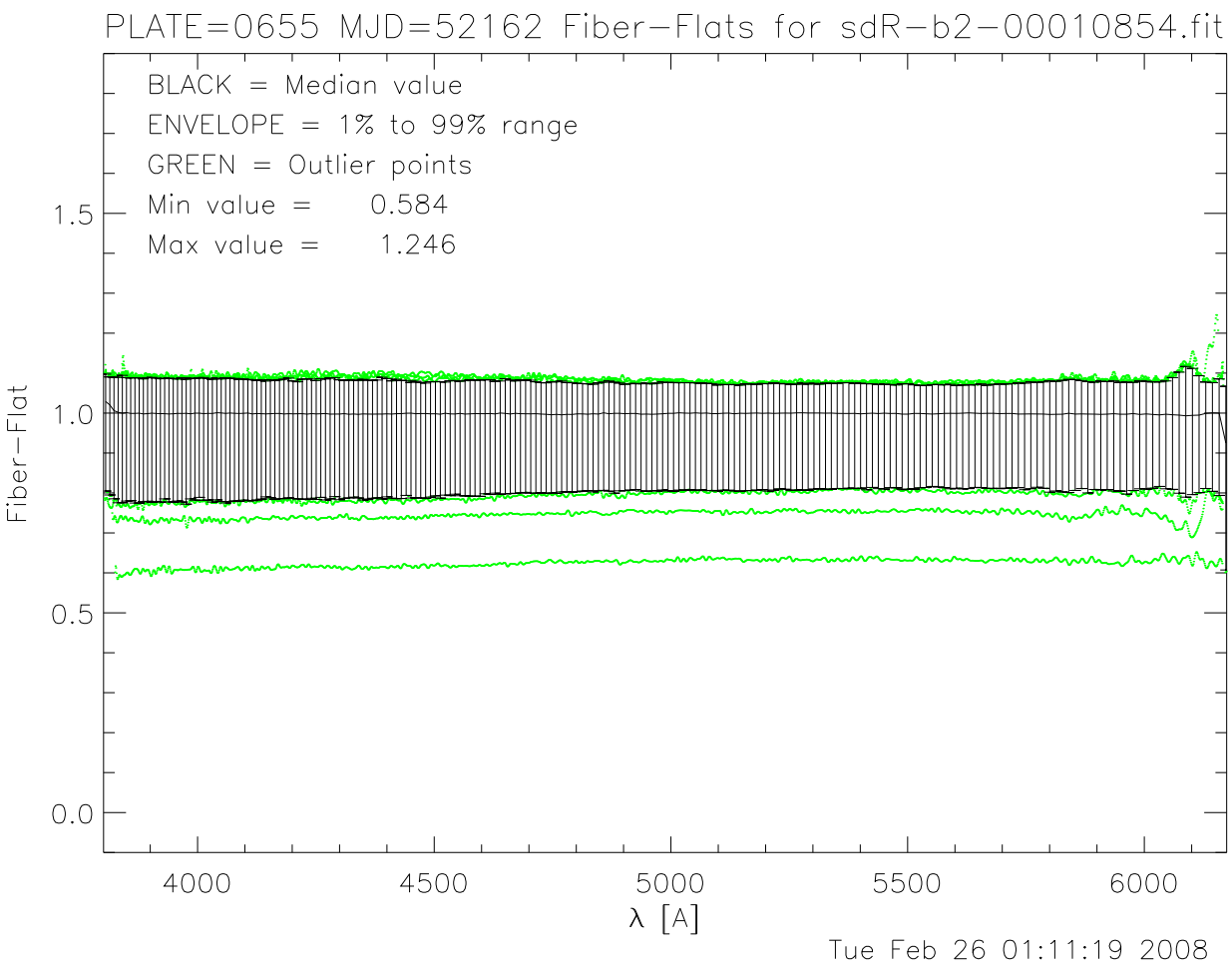

PLATE=0655 MJD=52162 flat extraction chi^2 for sdR−b2−00010850.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

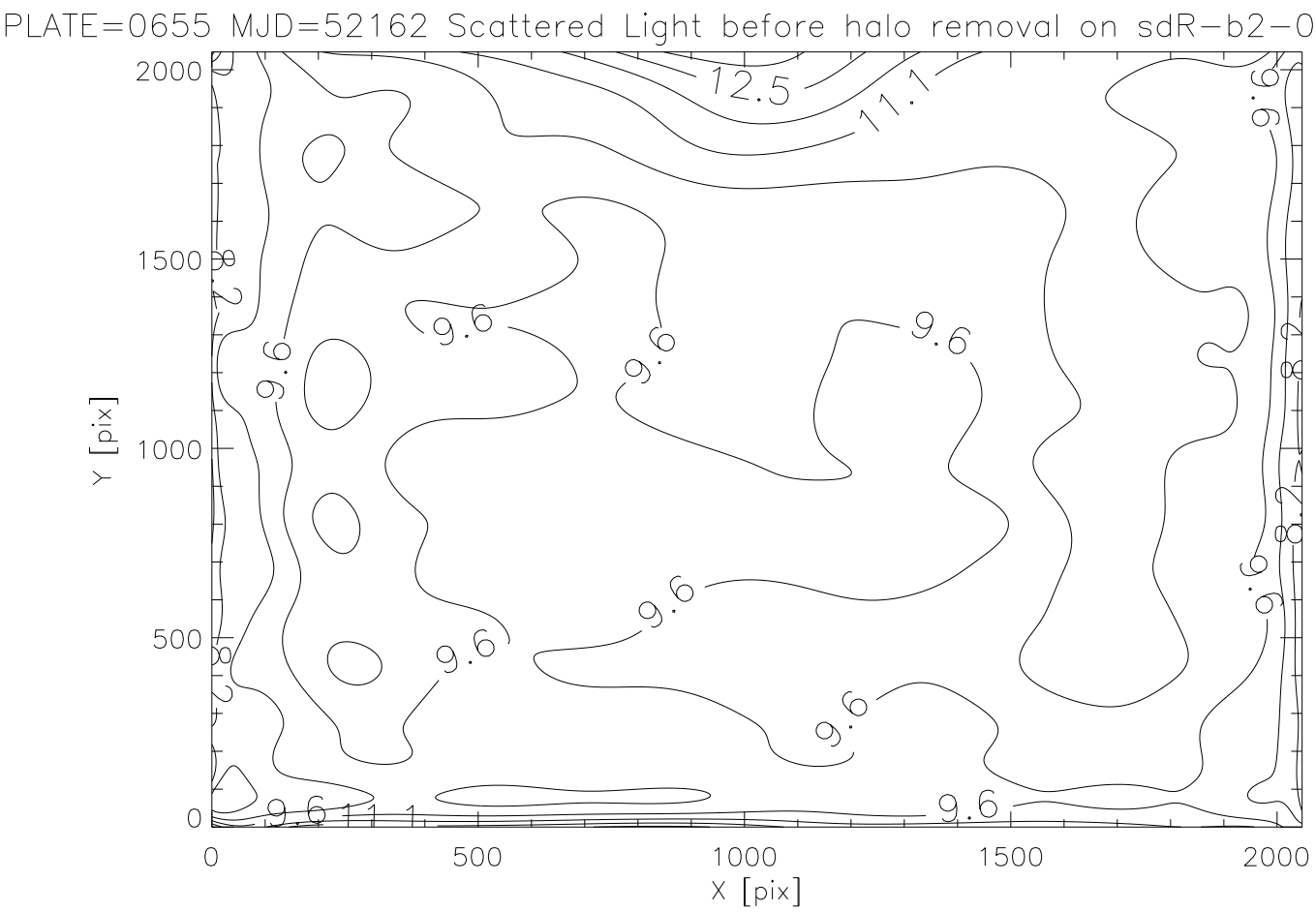

PLATE=0655 MJD=52162 Superflat sdR-b2-00010850.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

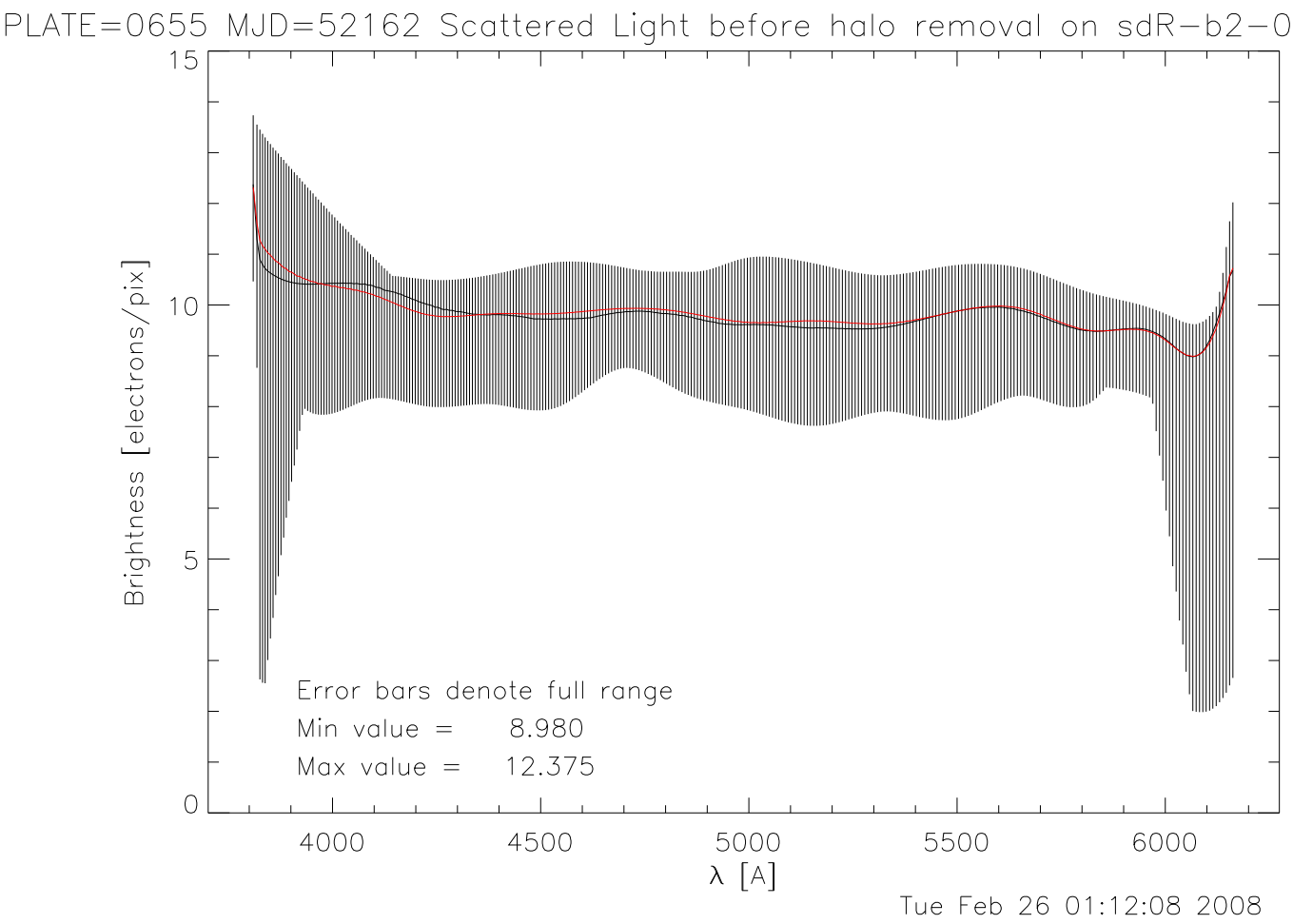

PLATE=0655 MJD=52162 flat extraction chi^2 for sdR−b2−00010854.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
6
0
500
1000
1500
2000

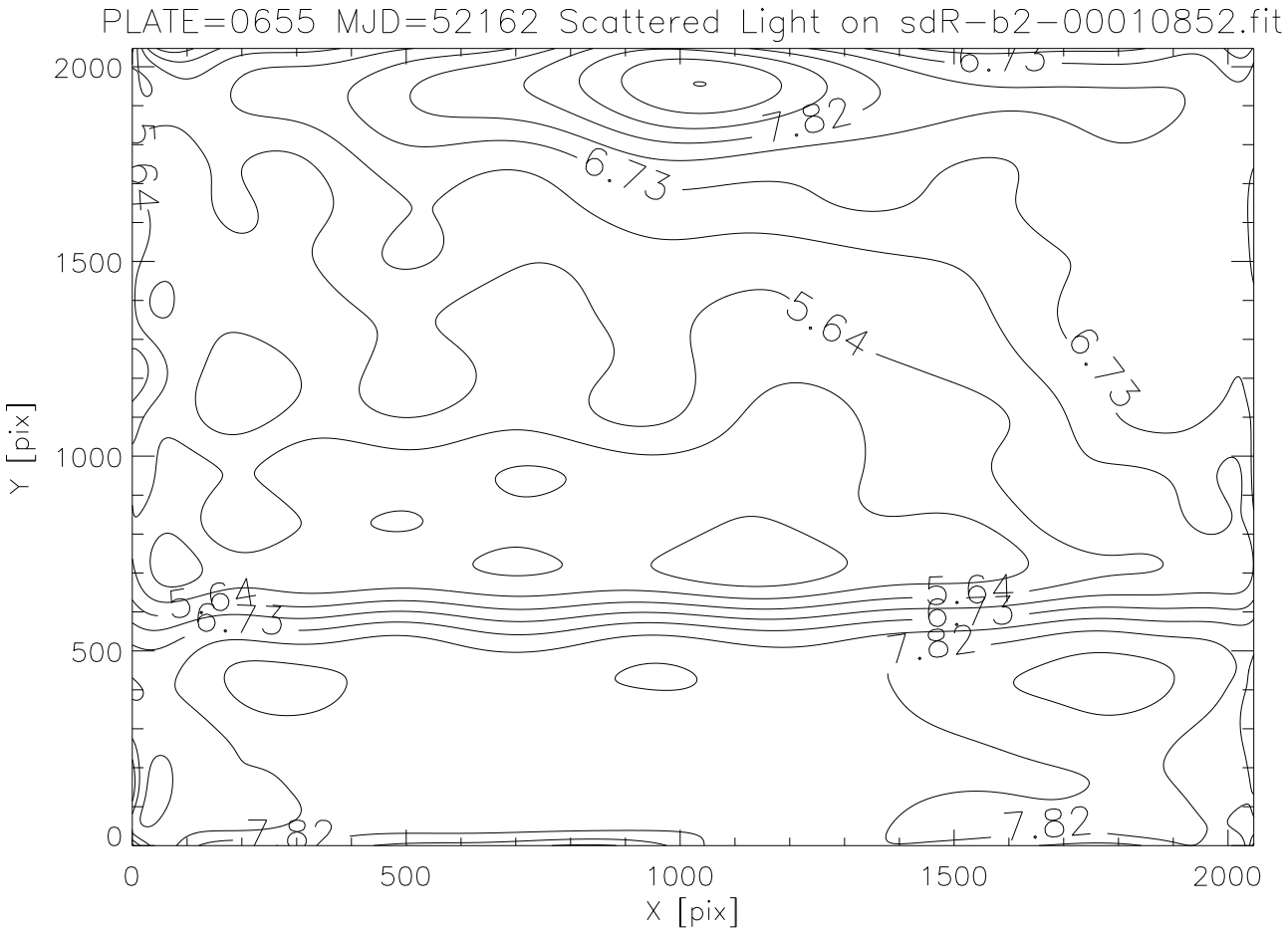

PLATE=0655 MJD=52162 Superflat sdR-b2-00010854.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

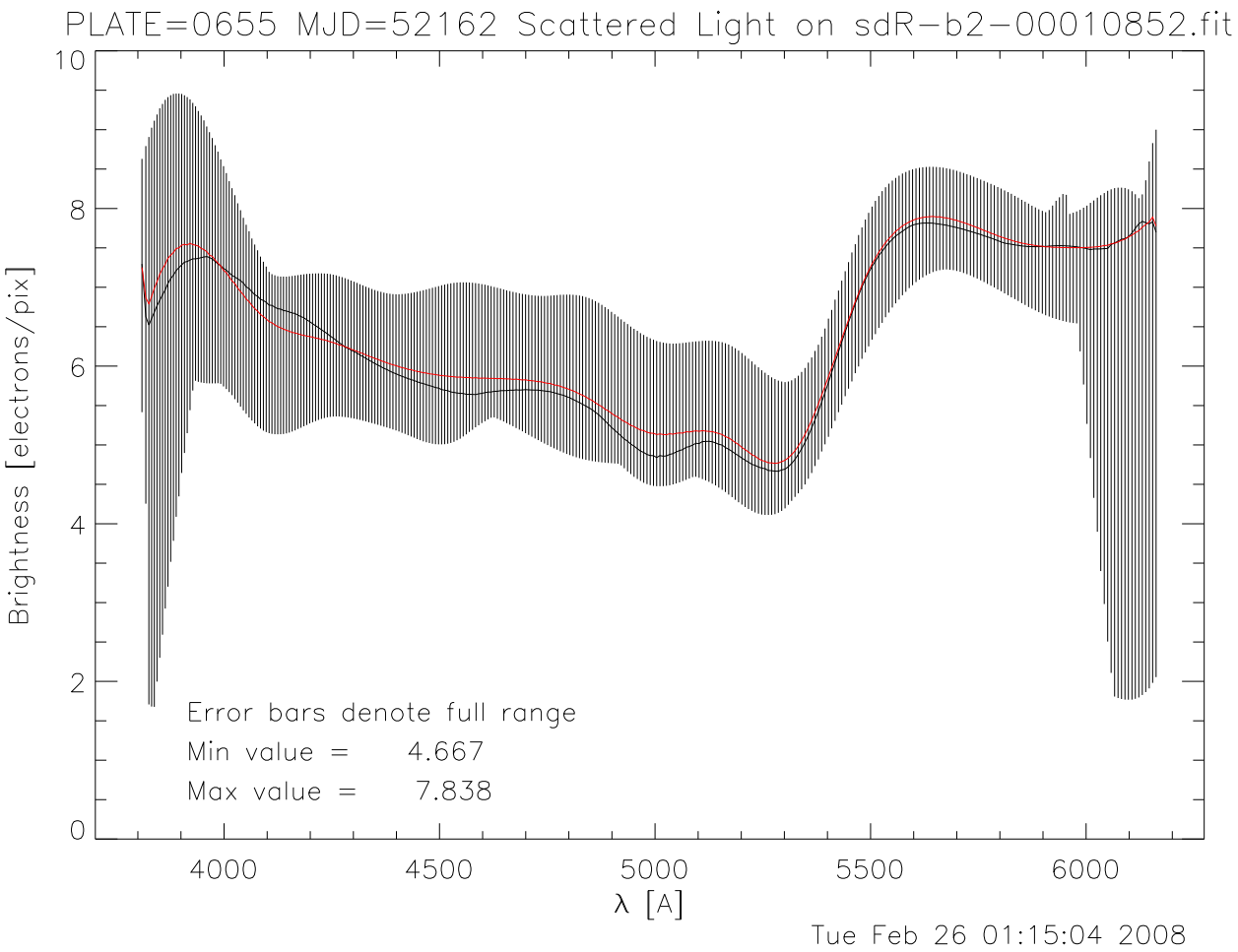

PLATE=0655 MJD=52162 Arcline Fit for sdR-b2-00010855.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 01:11:11 2008

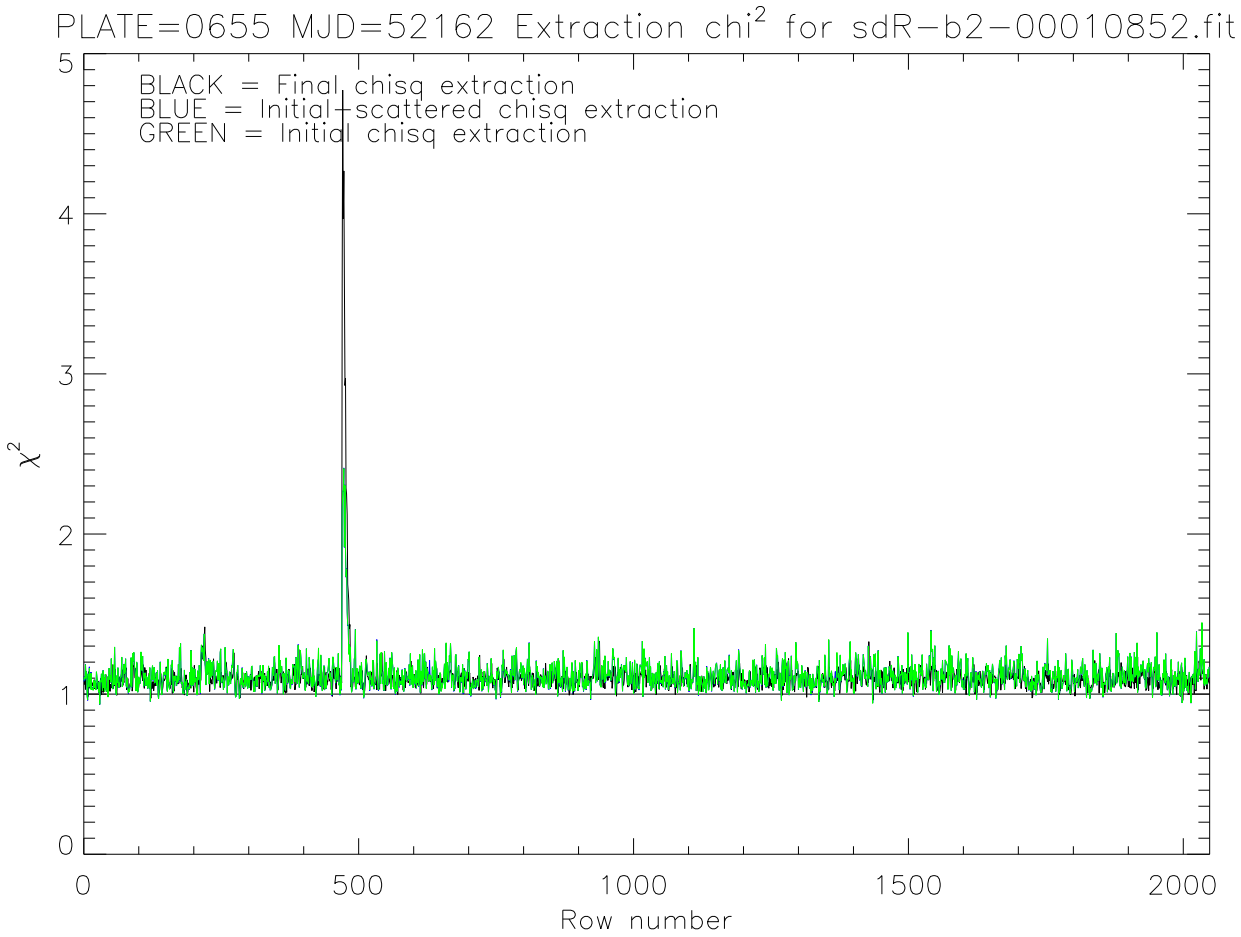

PLATE=0655 MJD=52162 Fiber-Flats for sdR-b2-00010854.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.584
Max value = 1.246
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 01:11:19 2008

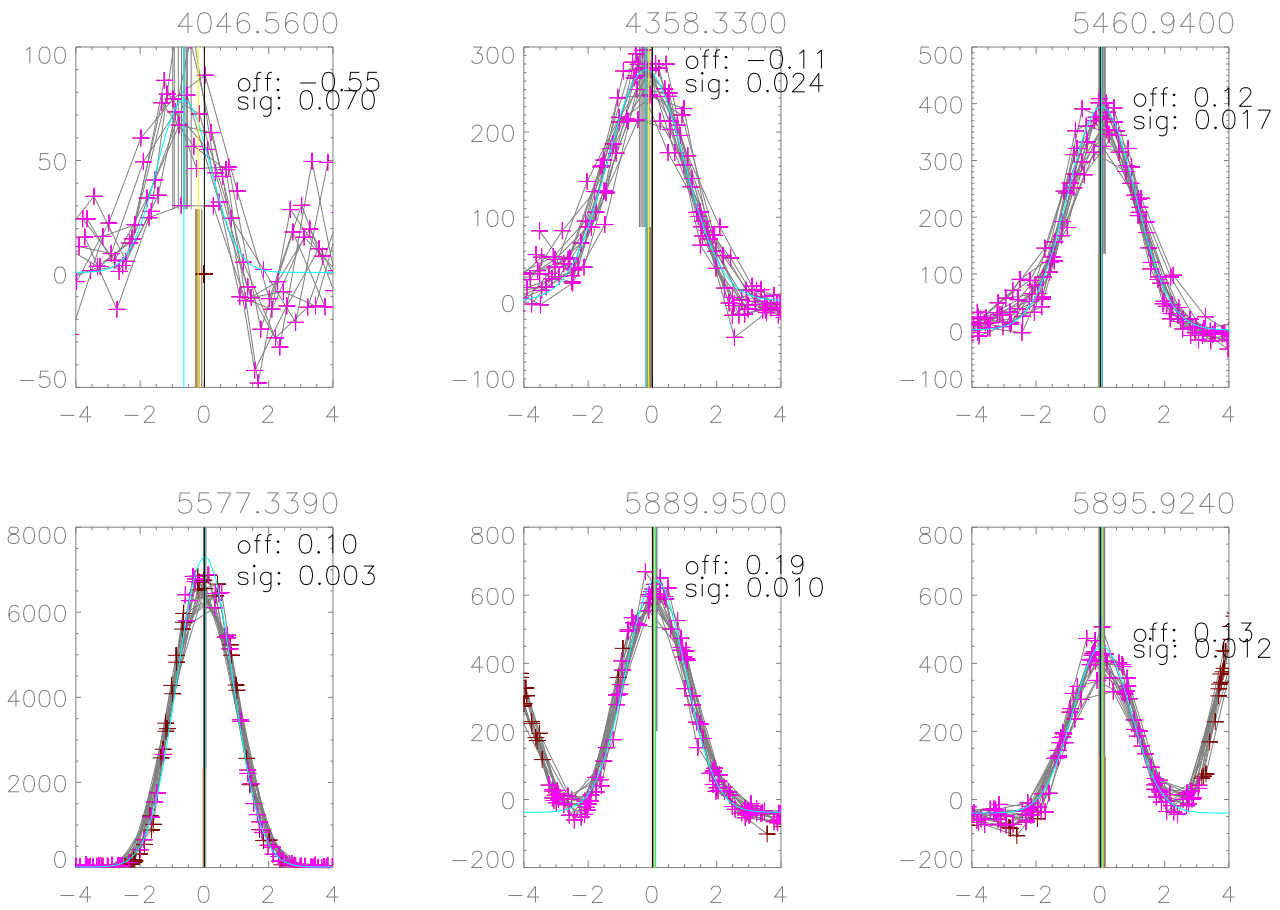

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR−b2−00010852.f
12.5
11.1
9.6
Y [pix]
X [pix]
0
500
1000
1500
2000

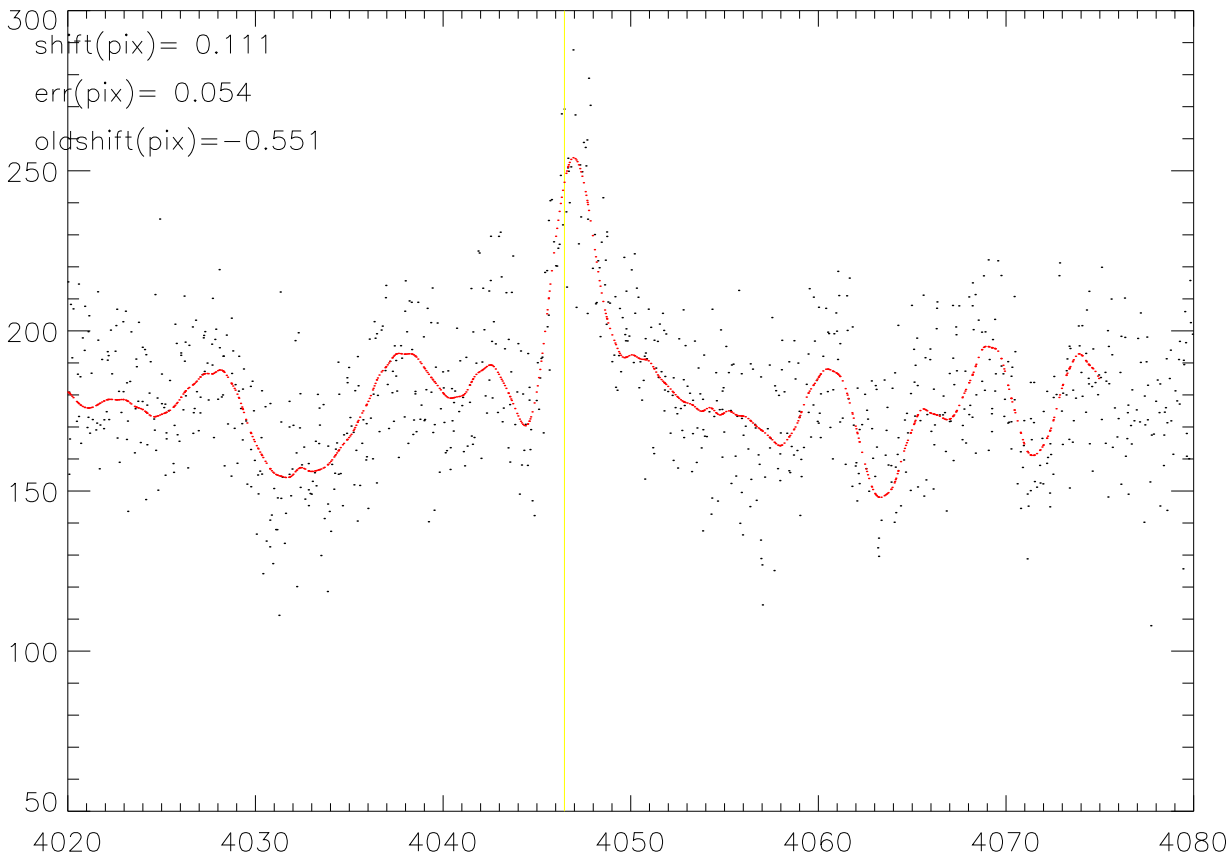

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-b2-00010852.f
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 8.980
Max value = 12.375
Tue Feb 26 01:12:08 2008

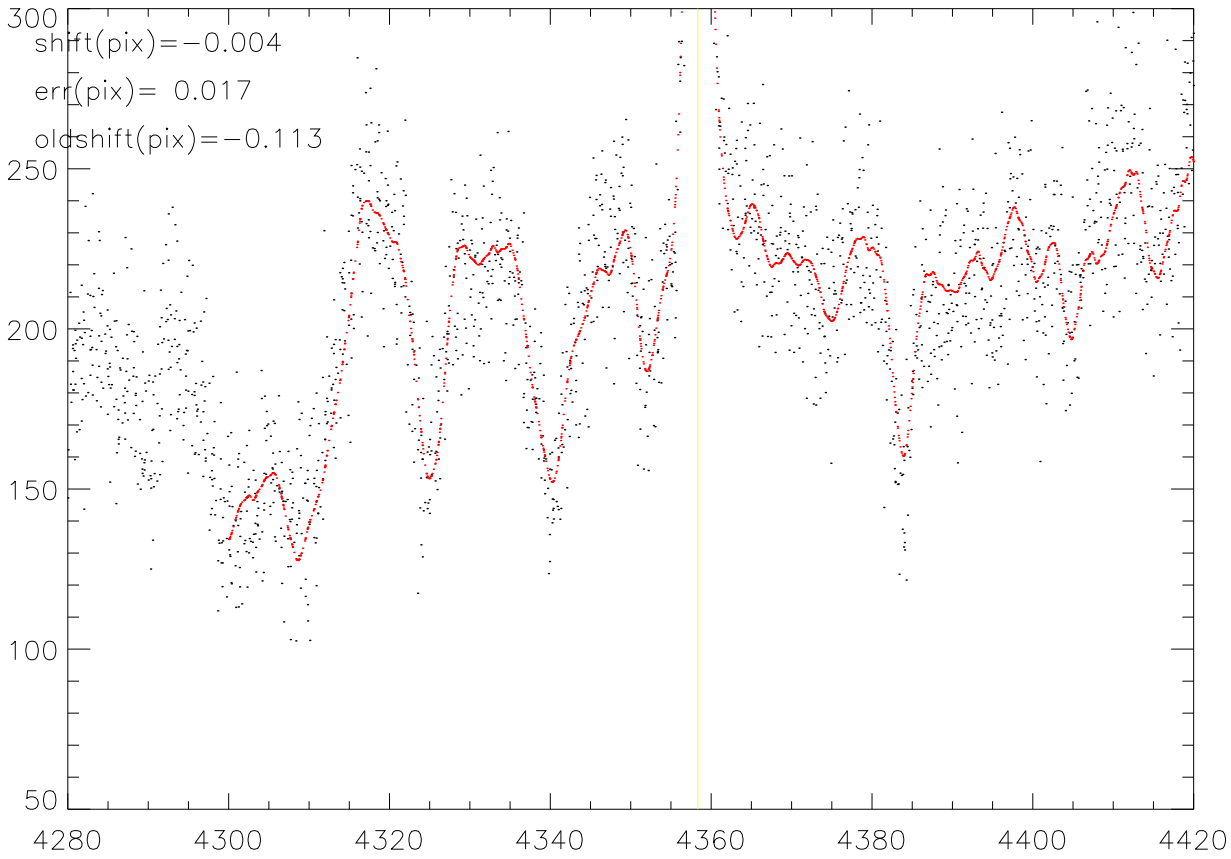

PLATE=0655 MJD=52162 Scattered Light on sdR-b2-00010852.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
5.64
6.73
7.82

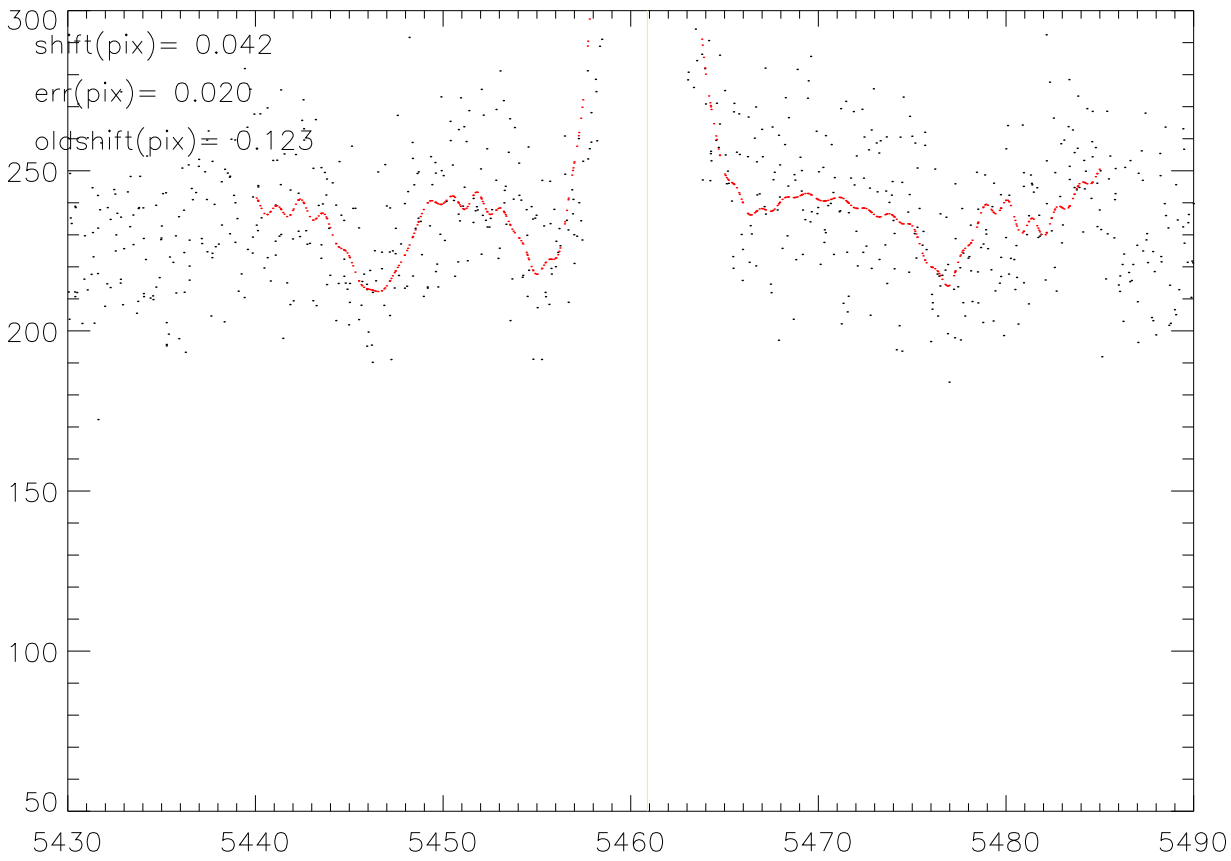

PLATE=0655 MJD=52162 Scattered Light on sdR-b2-00010852.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.667
Max value = 7.838
Tue Feb 26 01:15:04 2008

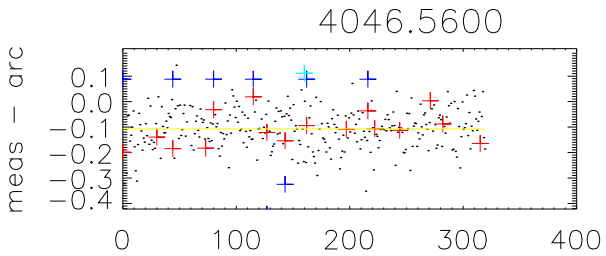

PLATE=0655 MJD=52162 Extraction chi^2 for sdR-b2-00010852.fit
BLACK = Final chisq extraction
BLUE = Initial+scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

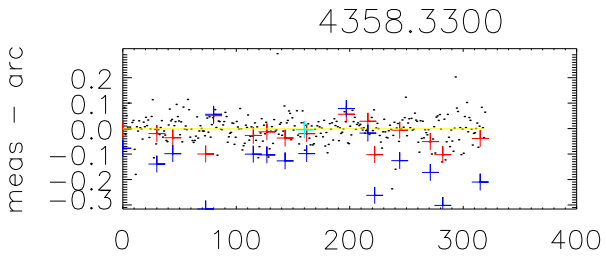

4046.5600
off: −0.55
sig: 0.070
4358.3300
off: −0.11
sig: 0.024
5460.9400
off: 0.12
sig: 0.017
5577.3390
off: 0.10
sig: 0.003
5889.9500
off: 0.19
sig: 0.010
5895.9240
off: 0.13
sig: 0.012

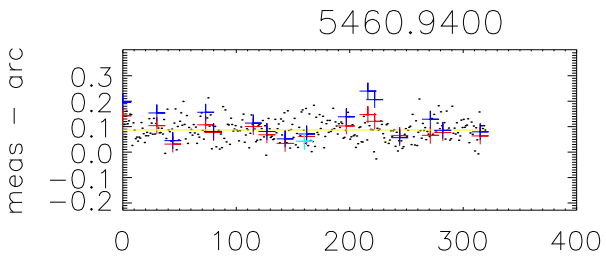

shift(pix)= 0.111
err(pix)= 0.054
oldshift(pix)=-0.551
300
250
200
150
100
50
4020
4030
4040
4050
4060
4070
4080

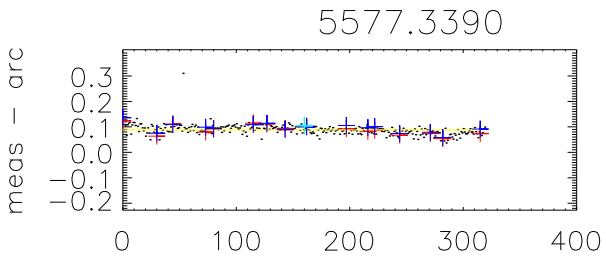

shift(pix)=−0.004
err(pix)= 0.017
oldshift(pix)=−0.113
300
250
200
150
100
50
4280
4300
4320
4340
4360
4380
4400
4420

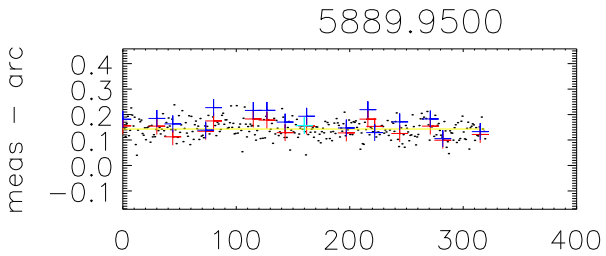

shift(pix)= 0.042
err(pix)= 0.020
oldshift(pix)= 0.123
300
250
200
150
100
50
5430
5440
5450
5460
5470
5480
5490

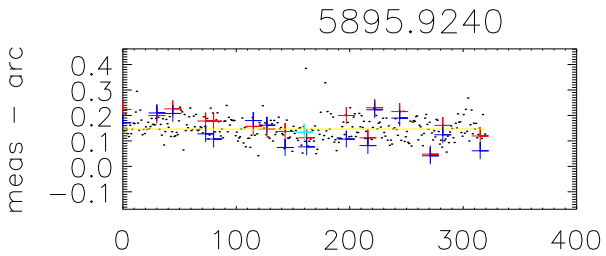

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

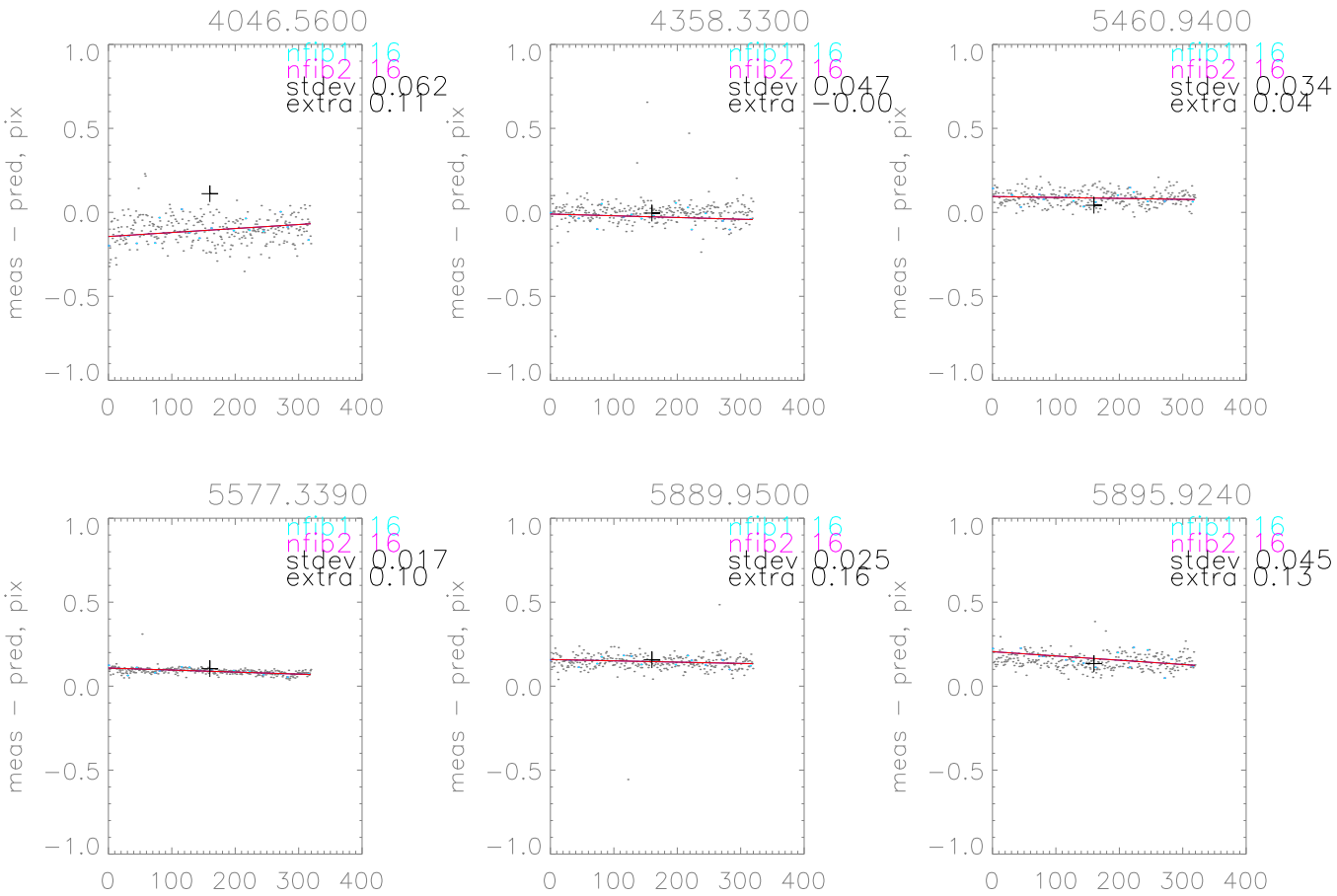

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

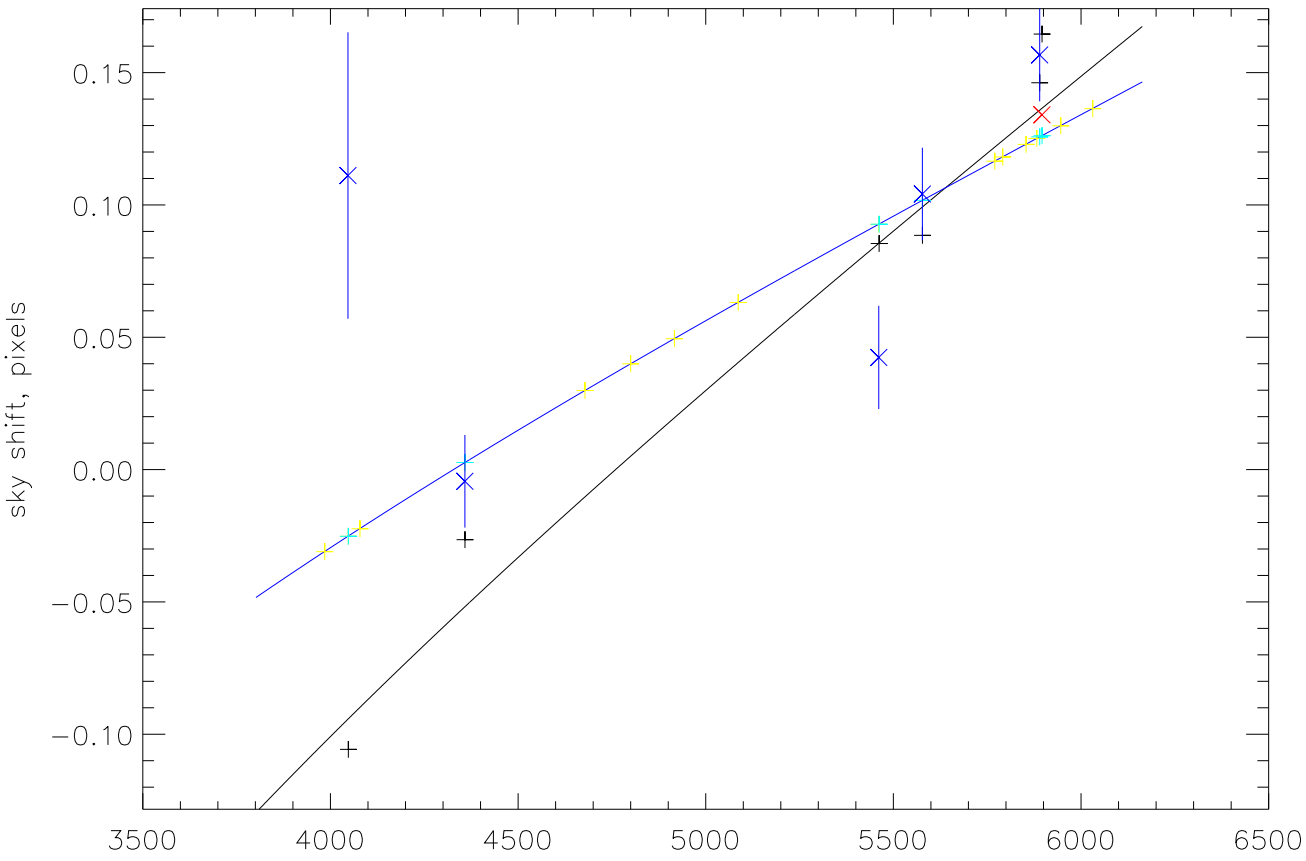

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

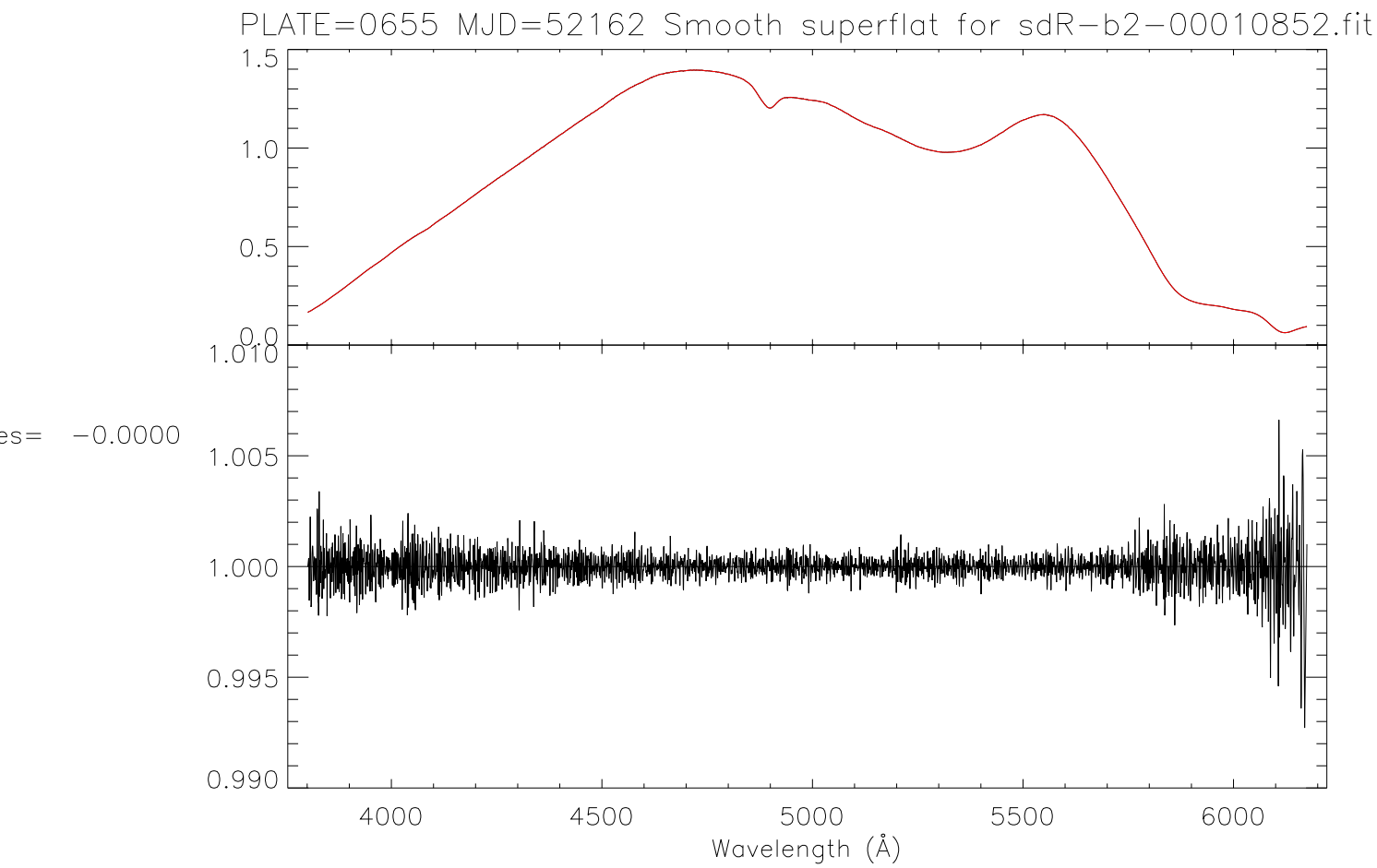

5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

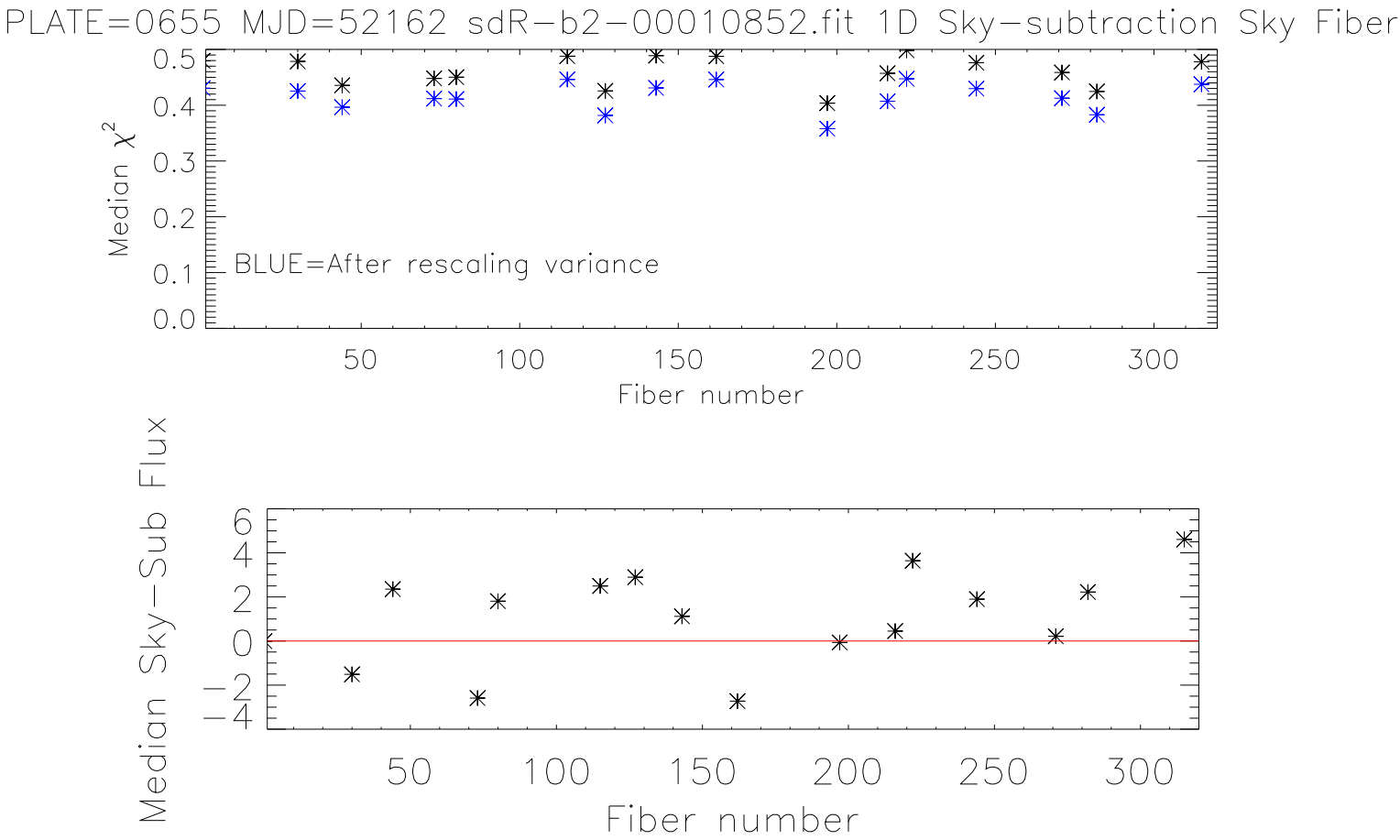

5889.9500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

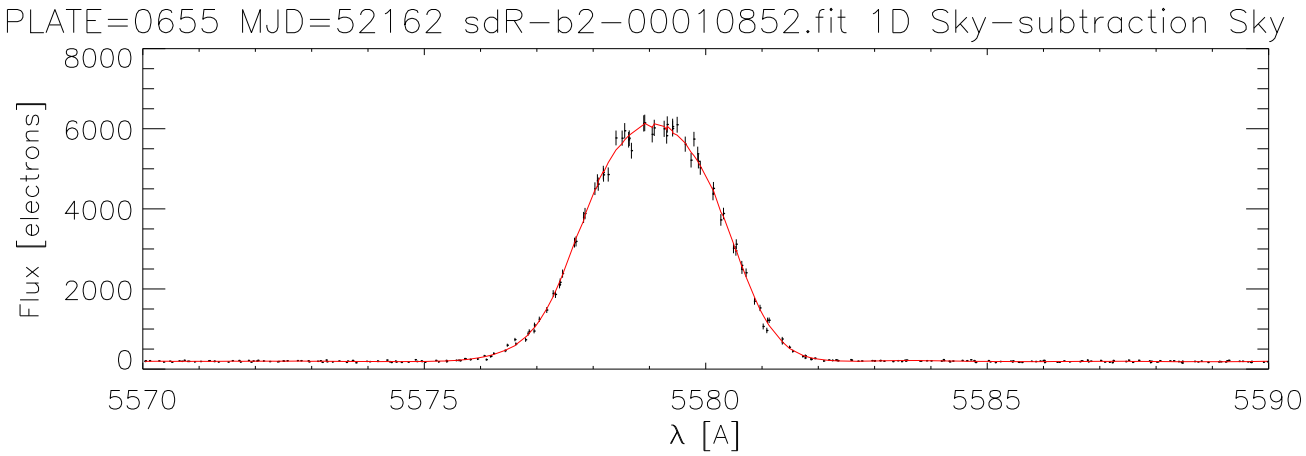

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

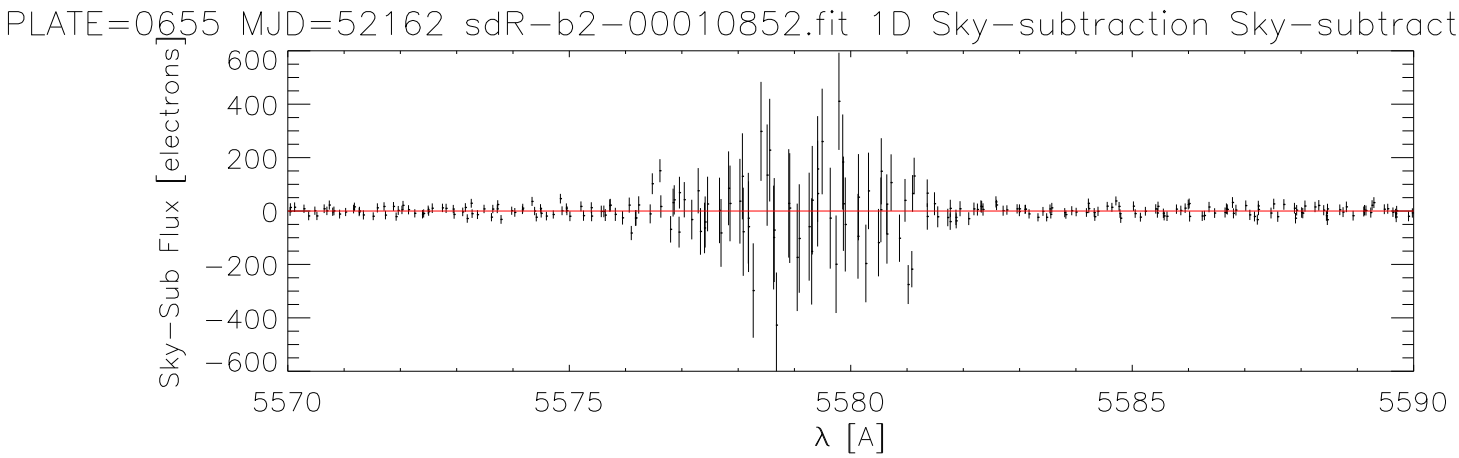

4046.5600
nfib1 16
nfib2 16
stdev 0.062
extra 0.11
4358.3300
nfib1 16
nfib2 16
stdev 0.047
extra −0.00
5460.9400
nfib1 16
nfib2 16
stdev 0.034
extra 0.04
5577.3390
nfib1 16
nfib2 16
stdev 0.017
extra 0.10
5889.9500
nfib1 16
nfib2 16
stdev 0.025
extra 0.16
5895.9240
nfib1 16
nfib2 16
stdev 0.045
extra 0.13
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

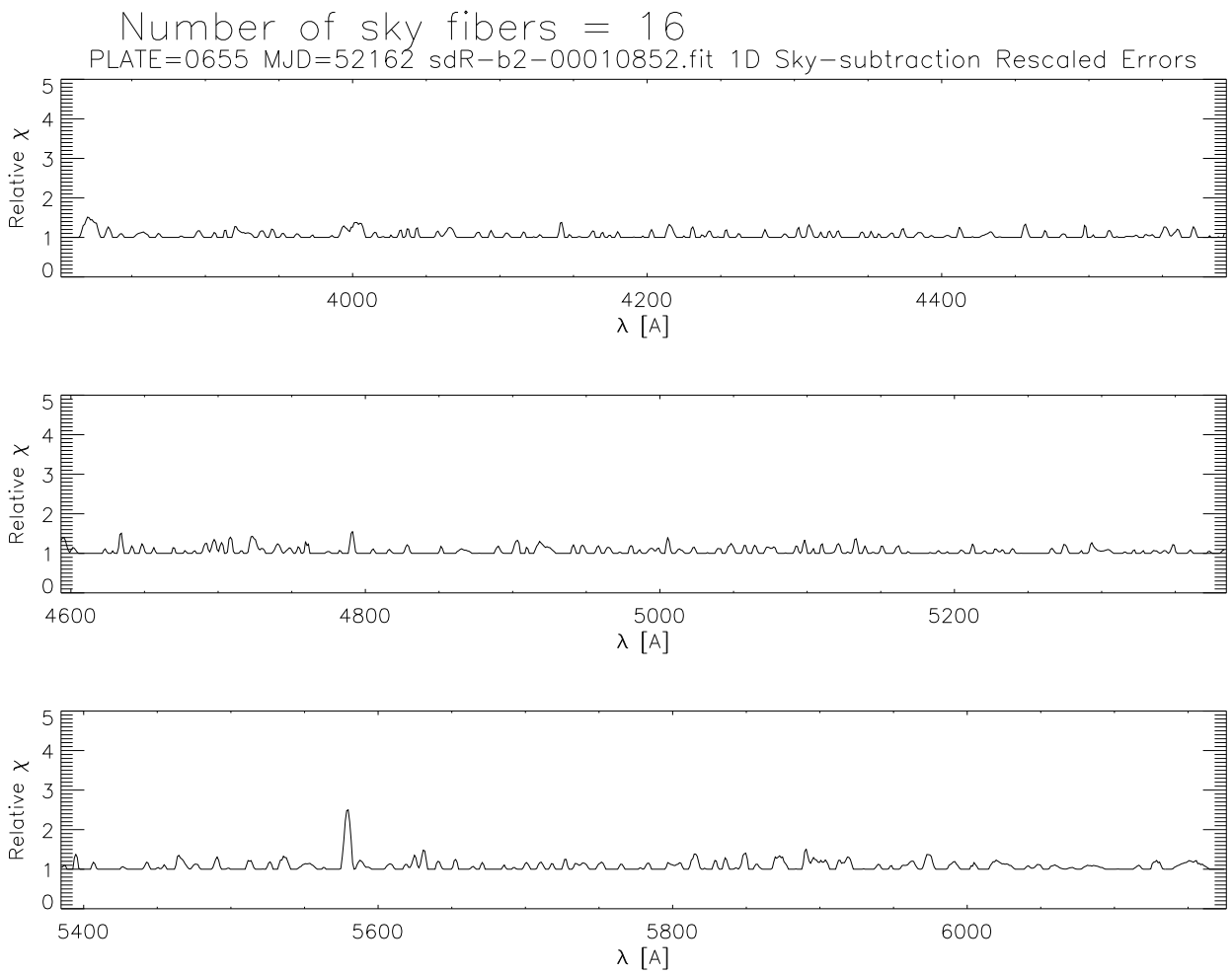

sky shift, pixels
0.15
0.10
0.05
0.00
−0.05
−0.10
3500
4000
4500
5000
5500
6000
6500

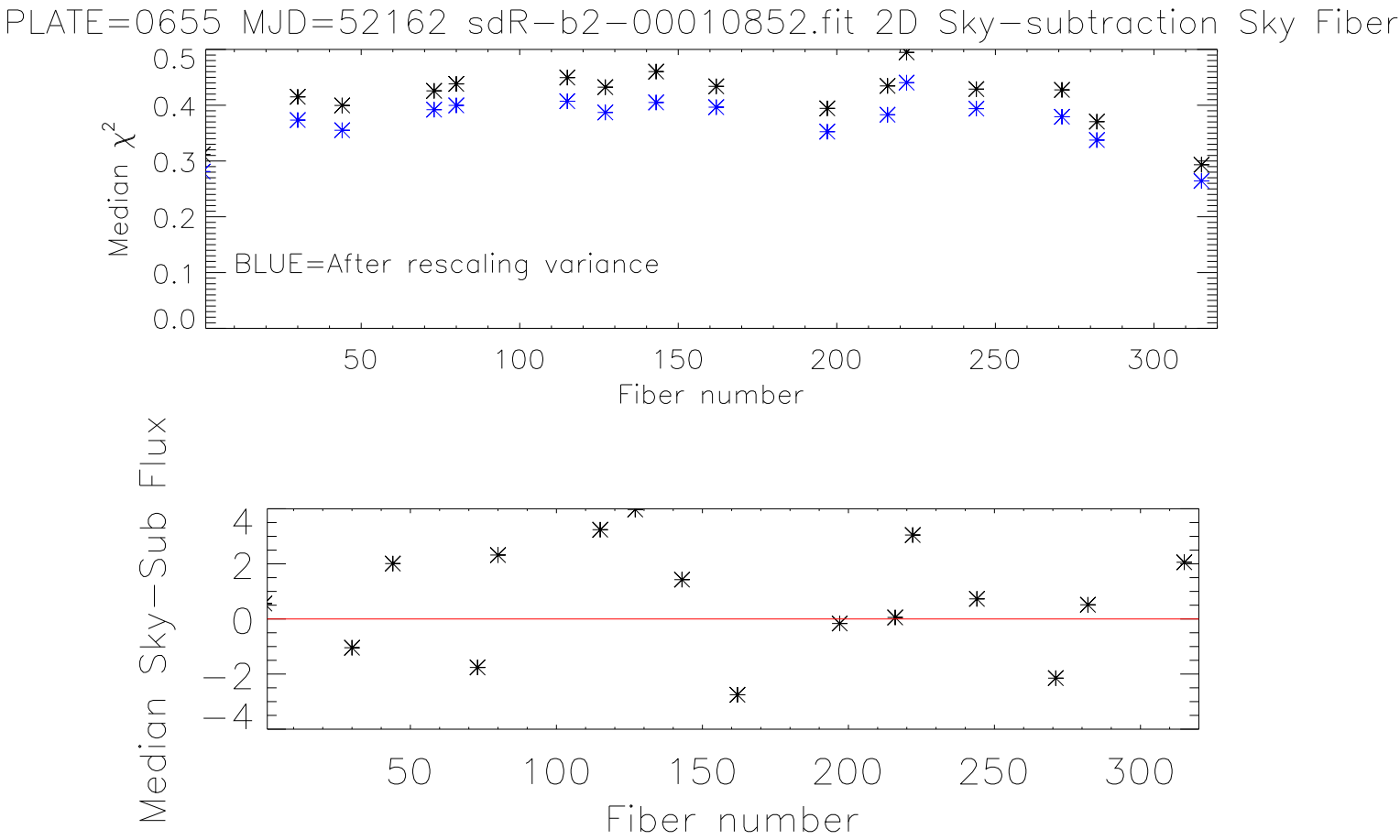

PLATE=0655 MJD=52162 Smooth superflat for sdR-b2-00010852.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= -0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

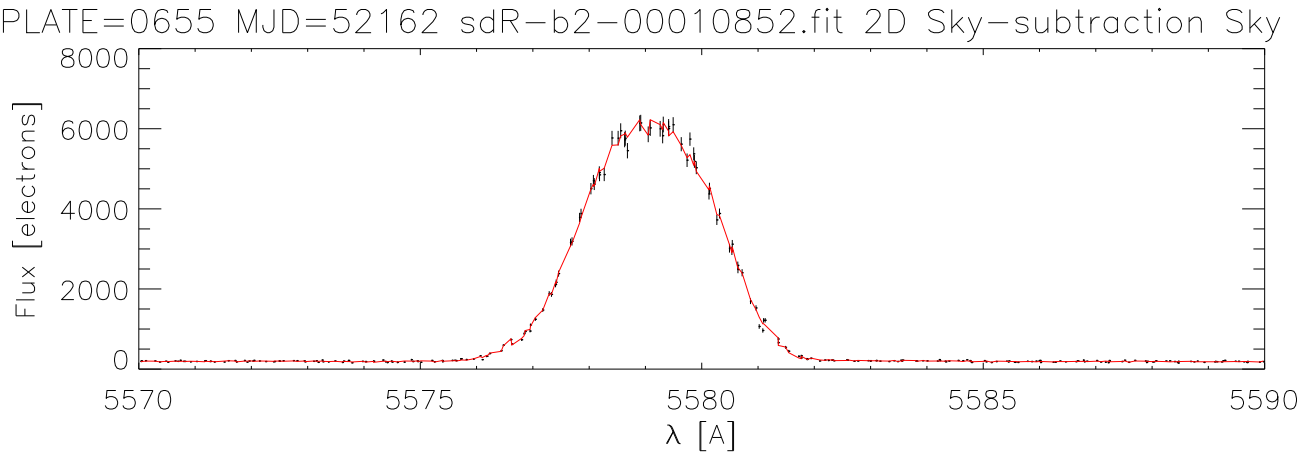

PLATE=0655 MJD=52162 sdR-b2-00010852.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

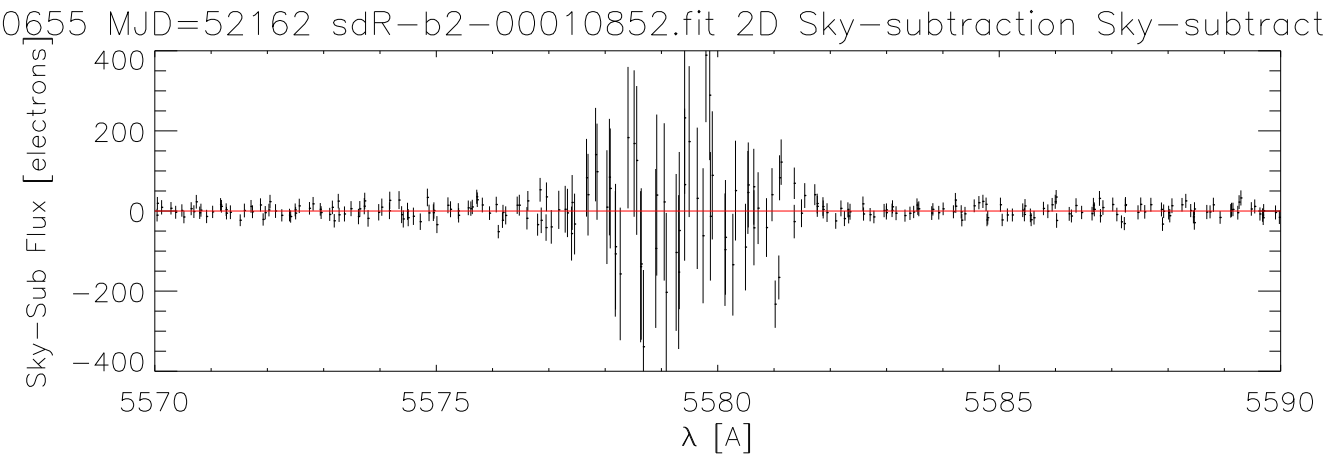

PLATE=0655 MJD=52162 sdR-b2-00010852.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

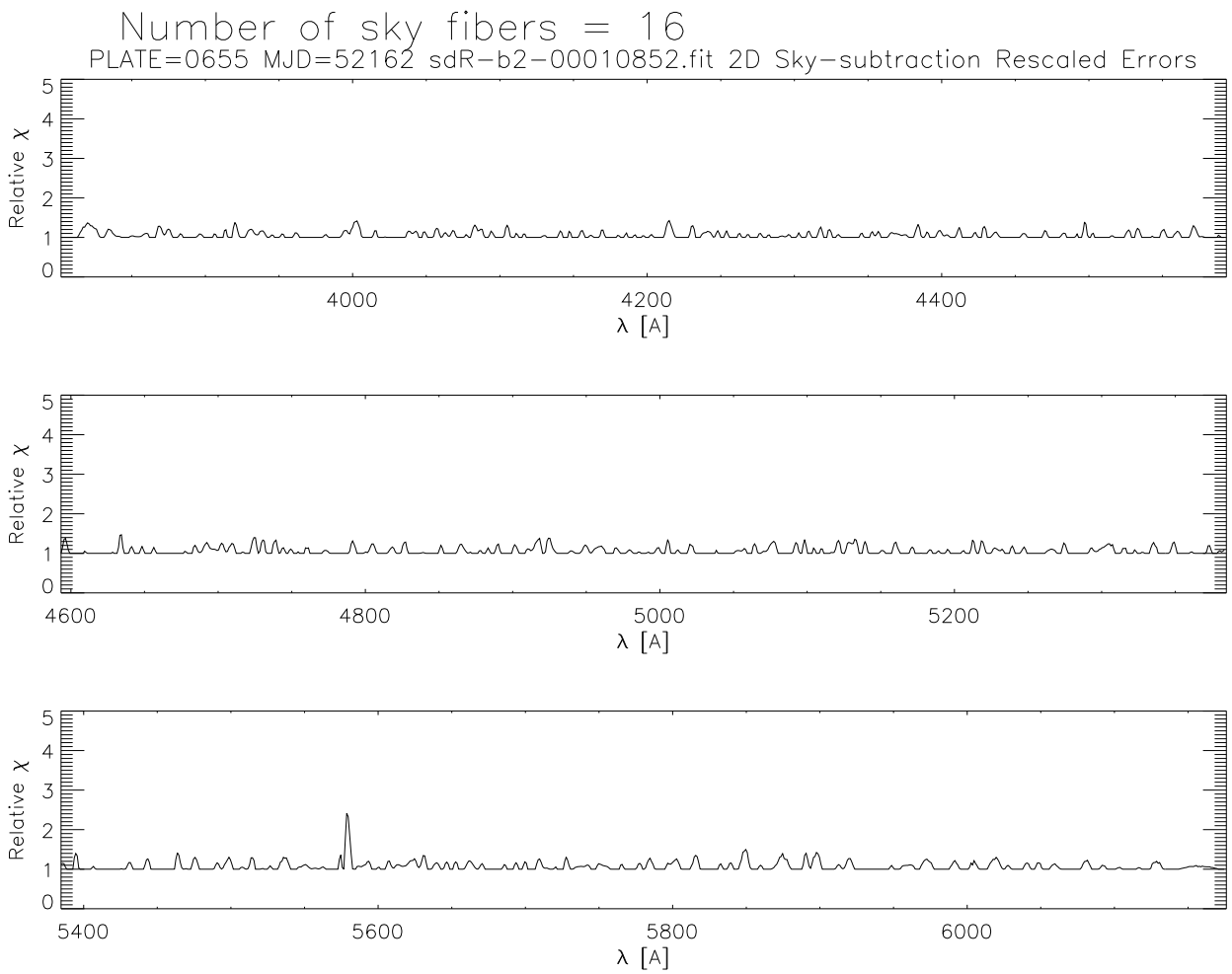

PLATE=0655 MJD=52162 sdR-b2-00010852.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

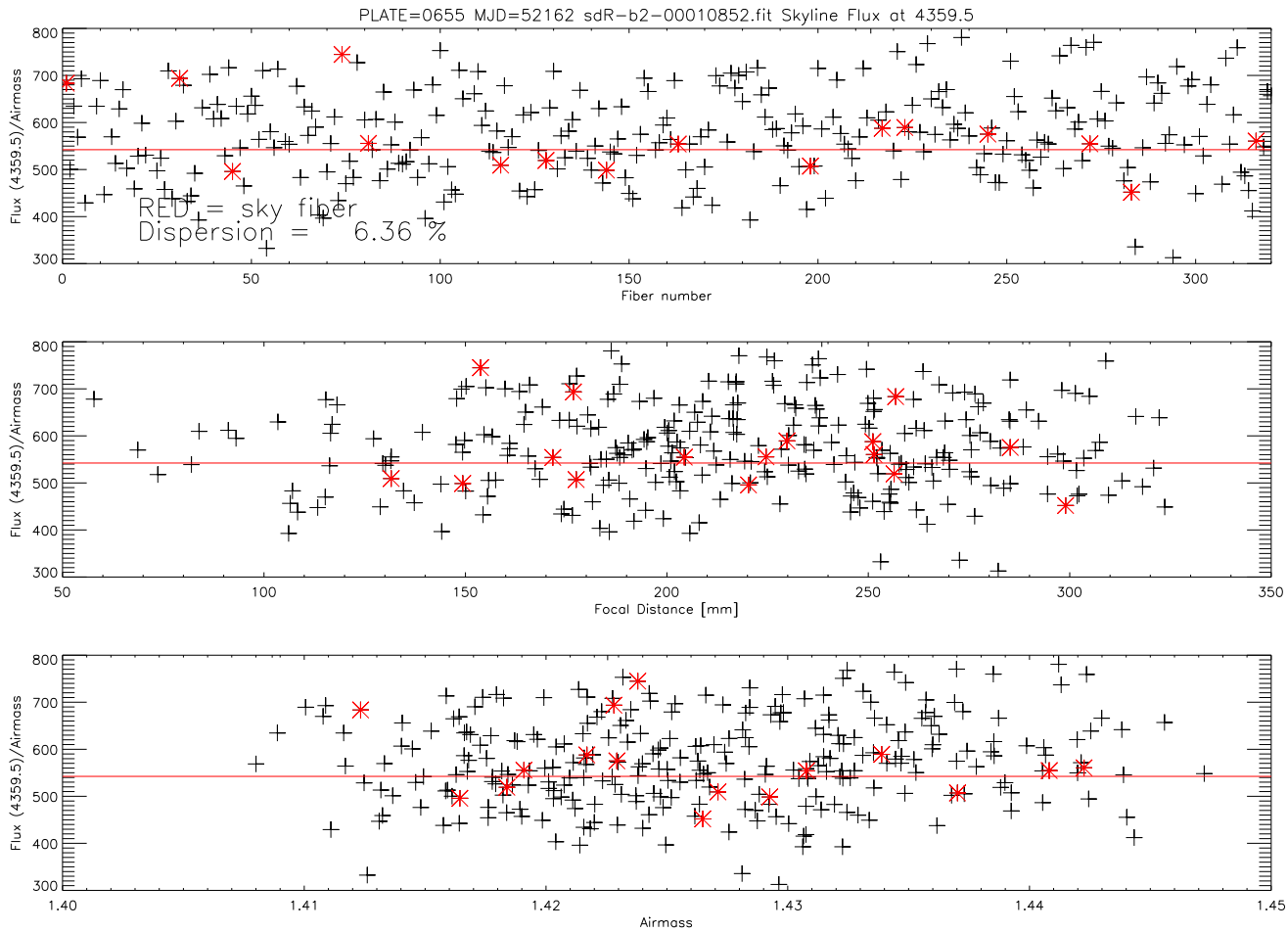

Number of sky fibers = 16
PLATE=0655 MJD=52162 sdR-b2-00010852.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

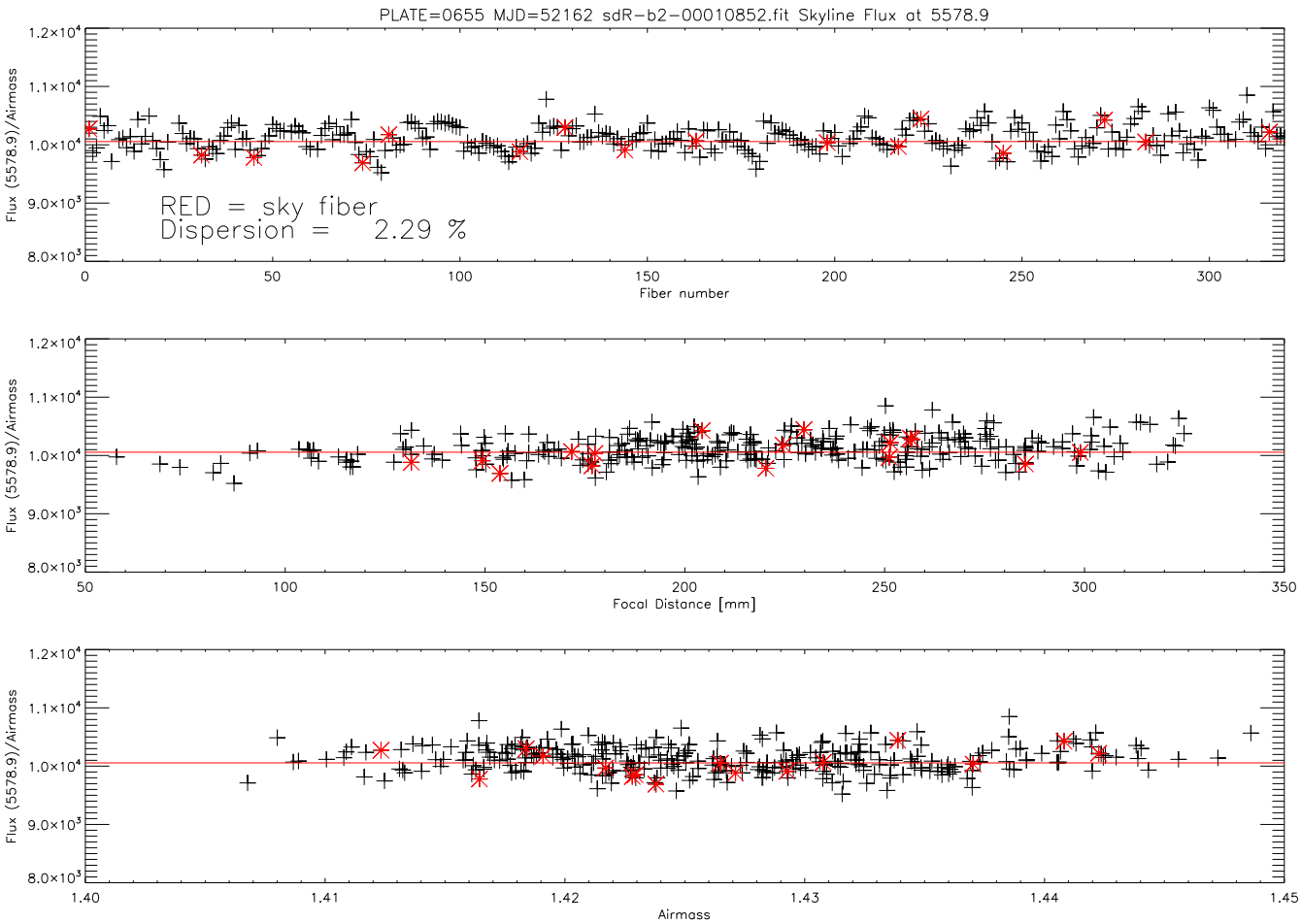

PLATE=0655 MJD=52162 sdR-b2-00010852.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
50
100
150
200
250
300
Fiber number

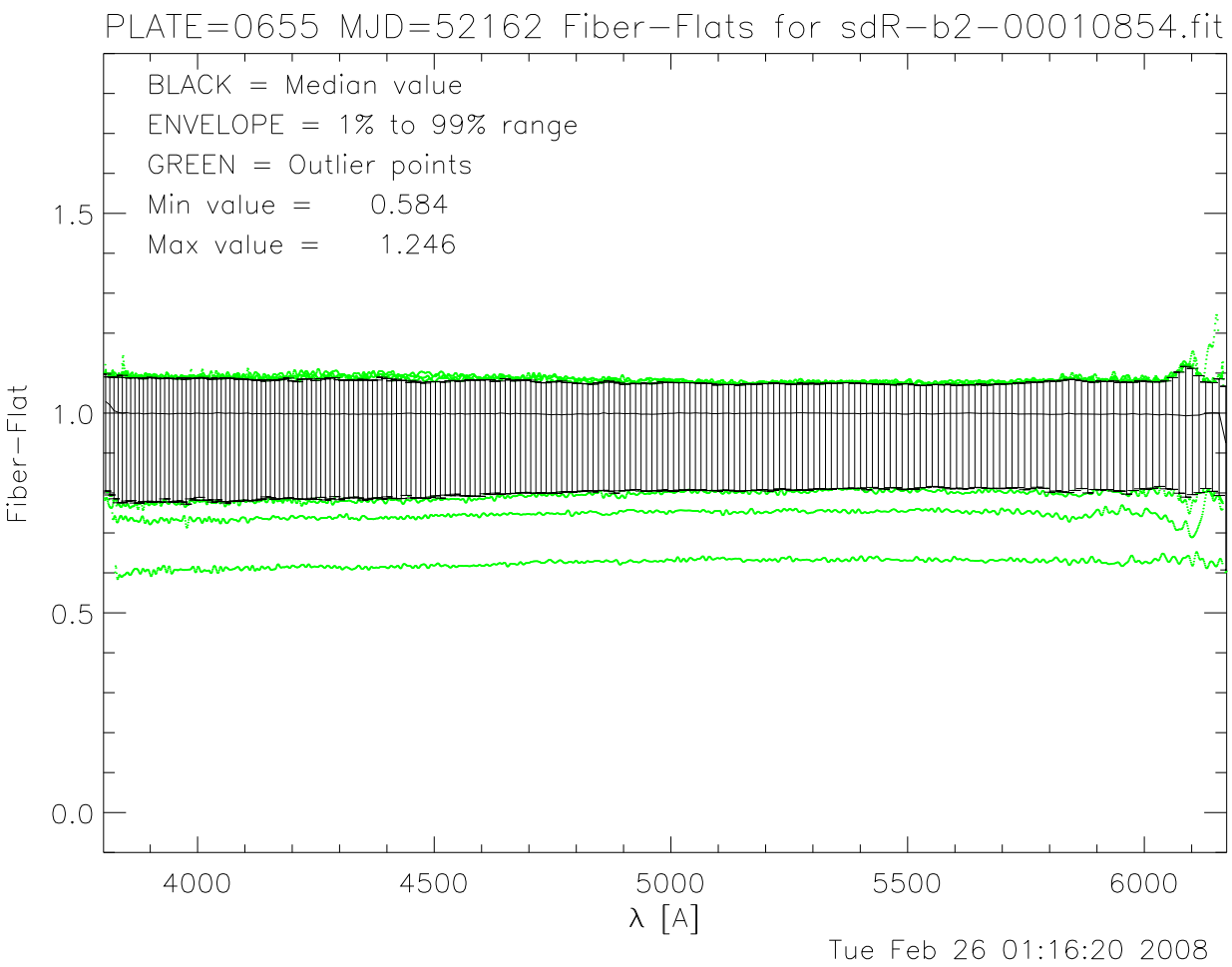

PLATE=0655 MJD=52162 sdR-b2-00010852.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

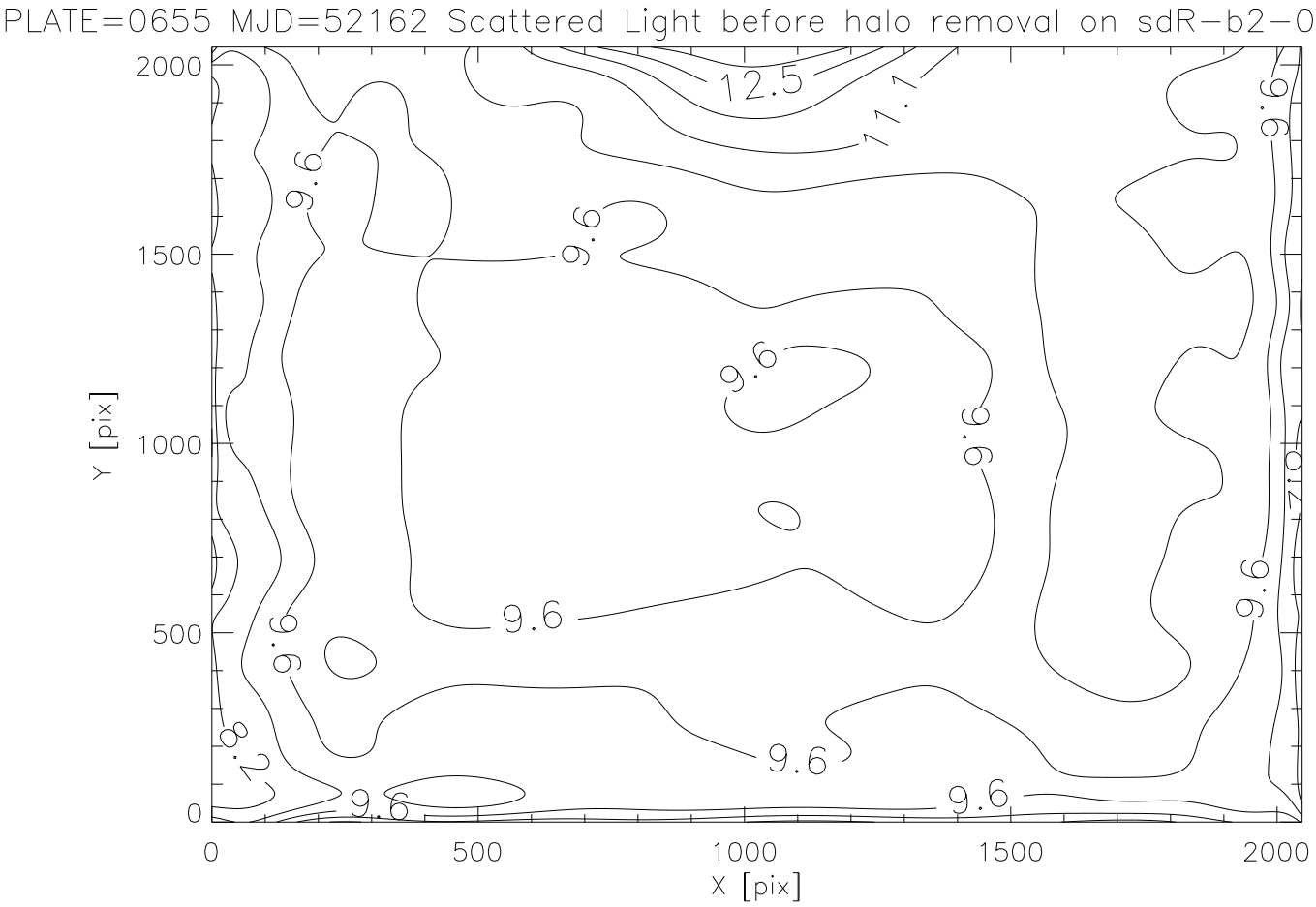

PLATE=0655 MJD=52162 sdR-b2-00010852.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

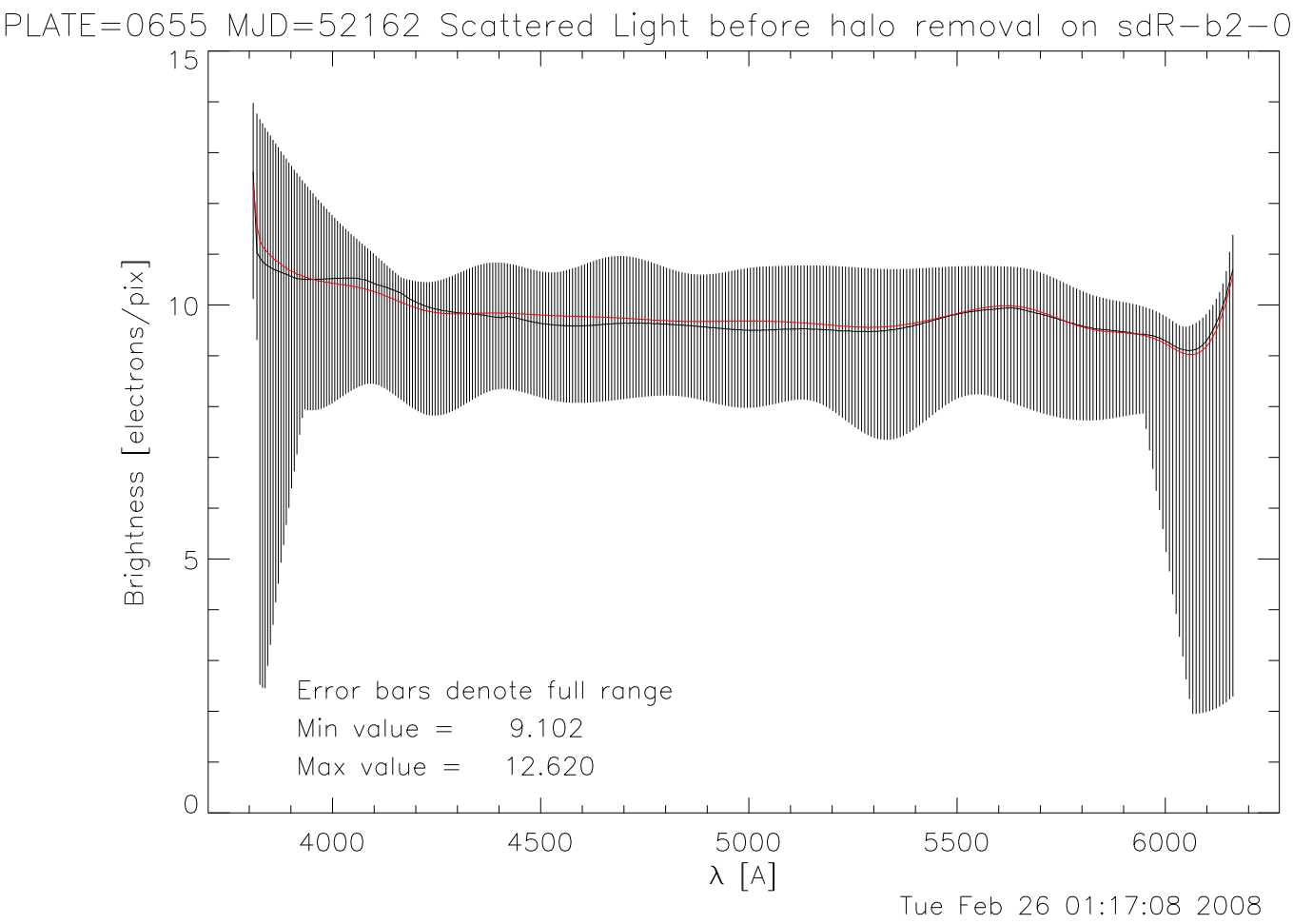

Number of sky fibers = 16
PLATE=0655 MJD=52162 sdR-b2-00010852.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

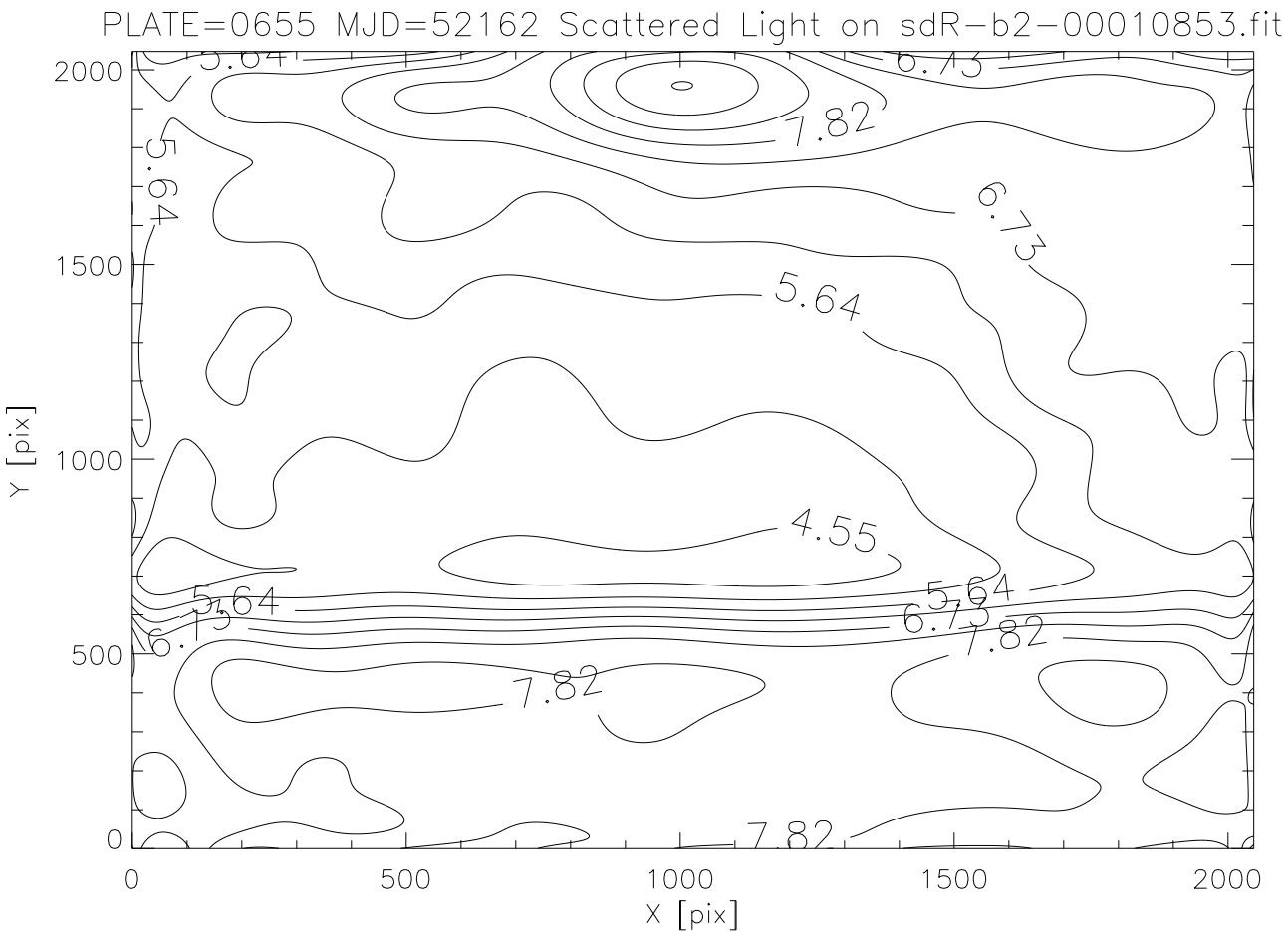

PLATE=0655 MJD=52162 sdR-b2-00010852.fit Skyline Flux at 4359.5
RED = sky fiber
Dispersion = 6.36 %
Flux (4359.5)/Airmass
Fiber number
Focal Distance [mm]
Airmass

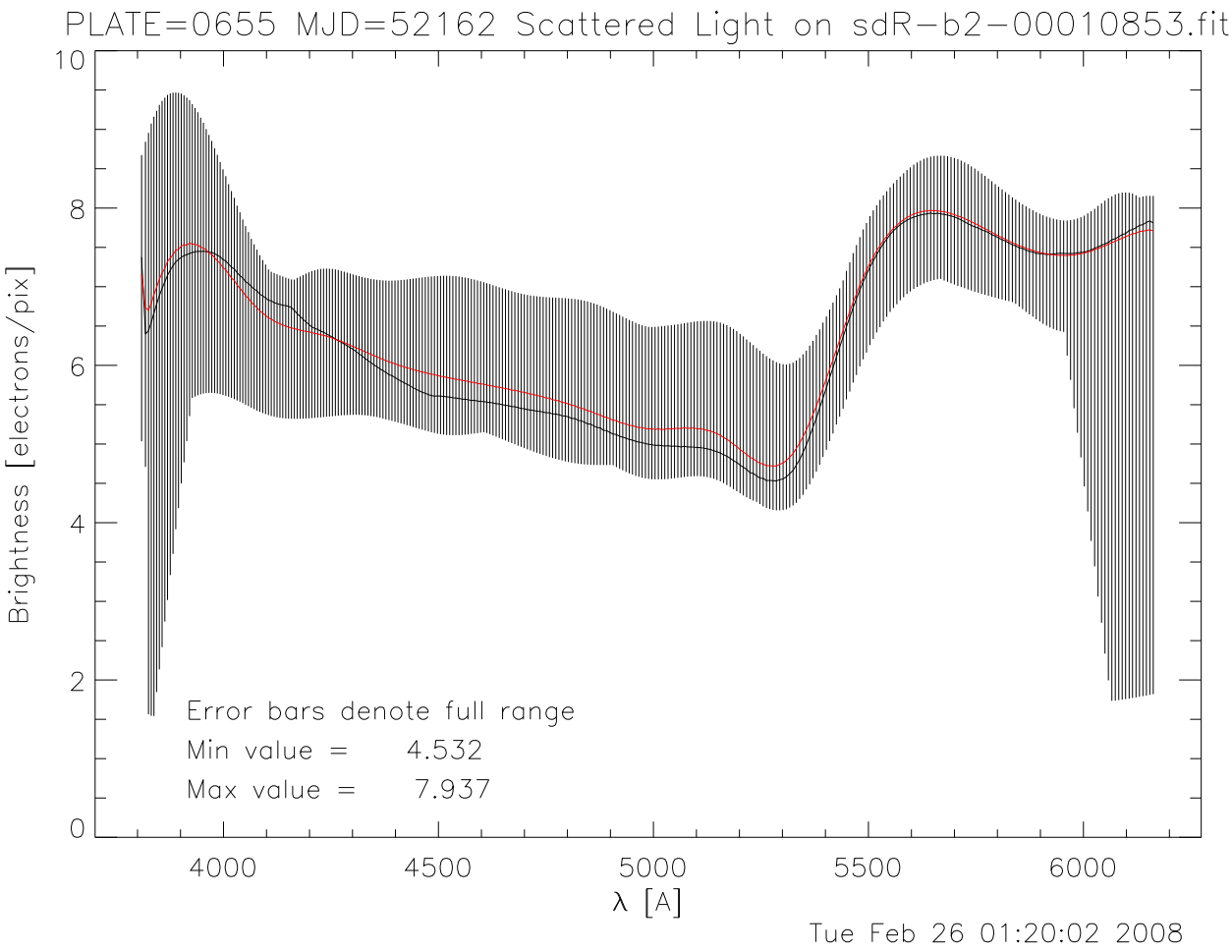

PLATE=0655 MJD=52162 sdR-b2-00010852.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.29 %
Fiber number
Focal Distance [mm]
Airmass

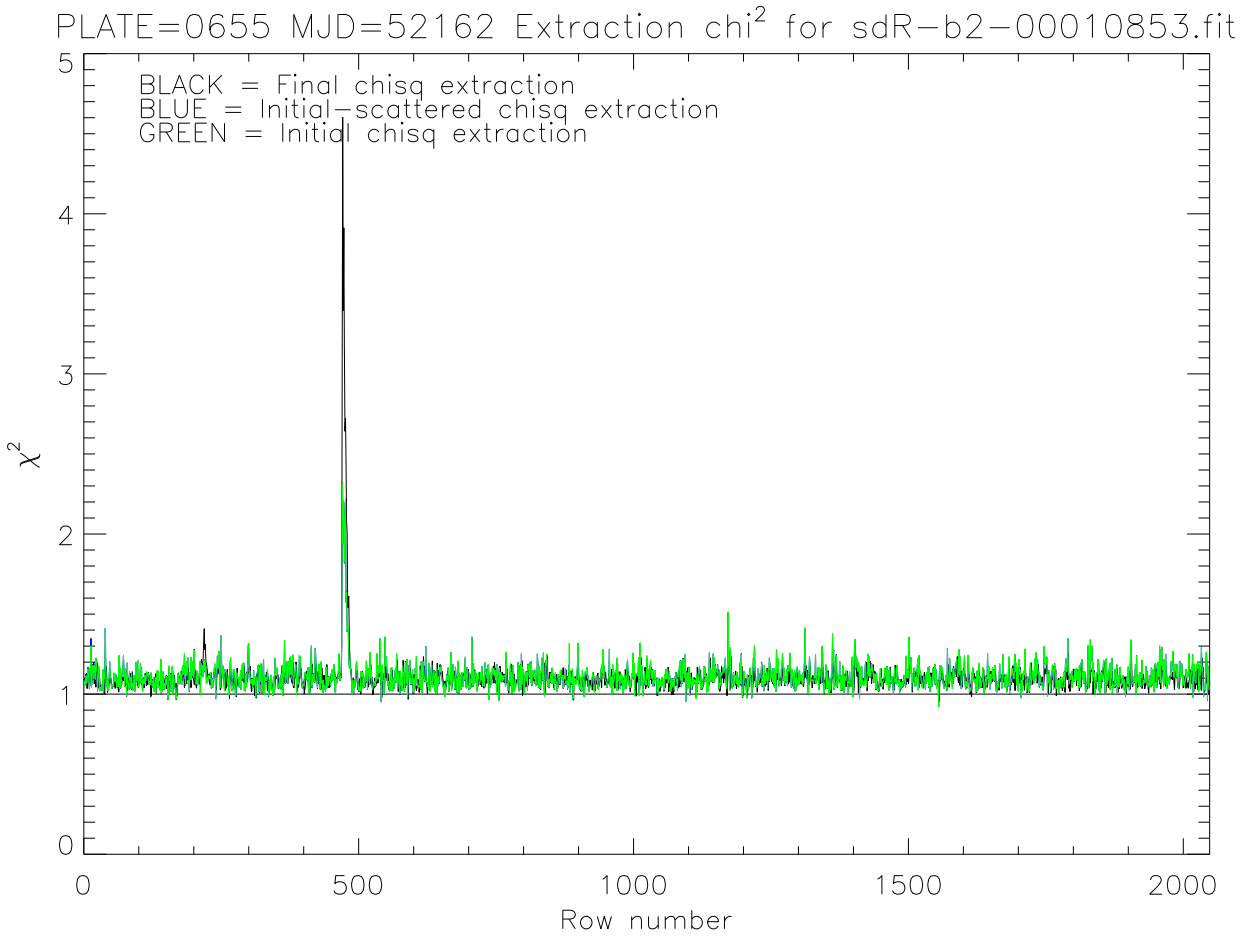

PLATE=0655 MJD=52162 Fiber-Flats for sdR-b2-00010854.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.584
Max value = 1.246
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 01:16:20 2008

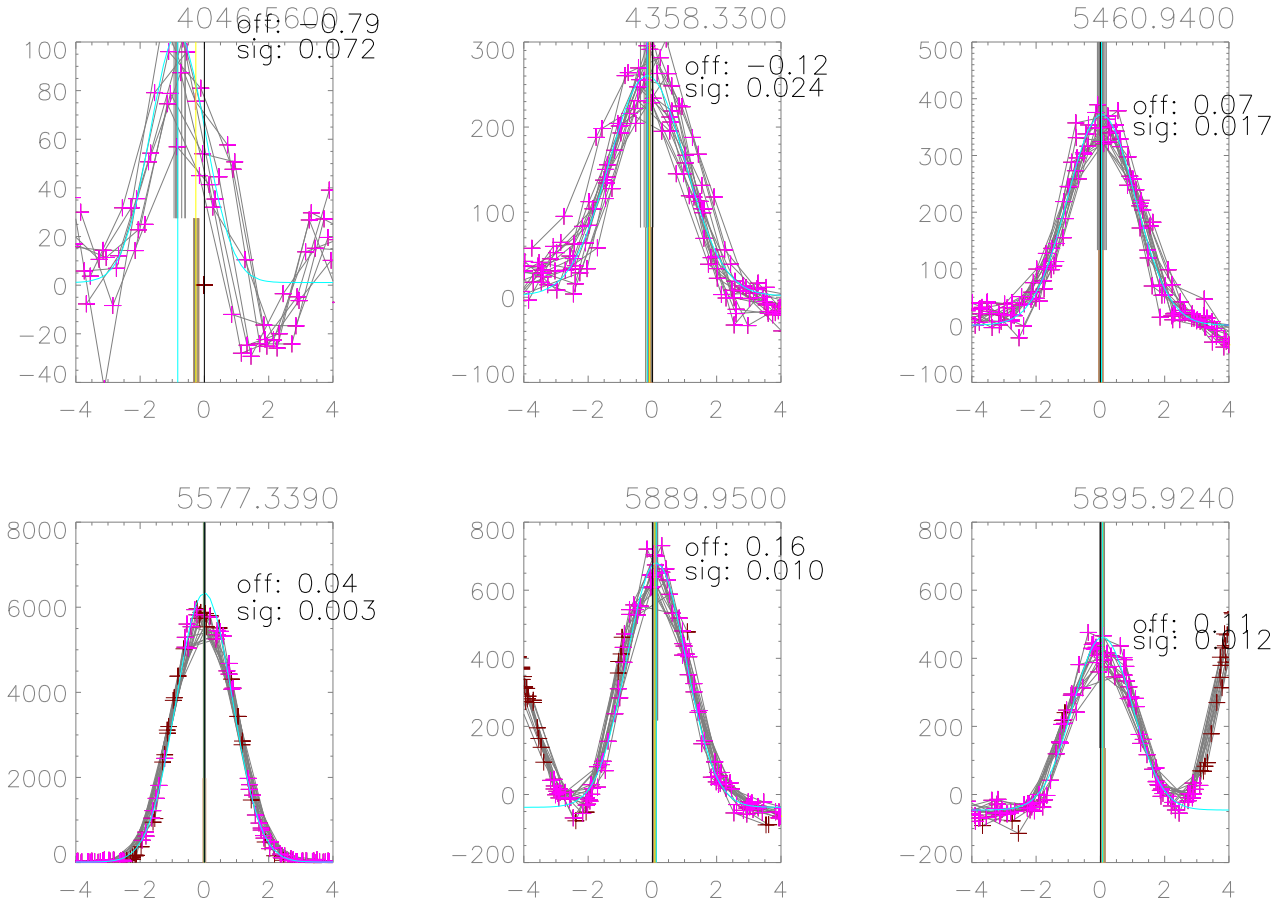

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-b2-00010853.f
12.5
11.1
9.6
9.6
9.6

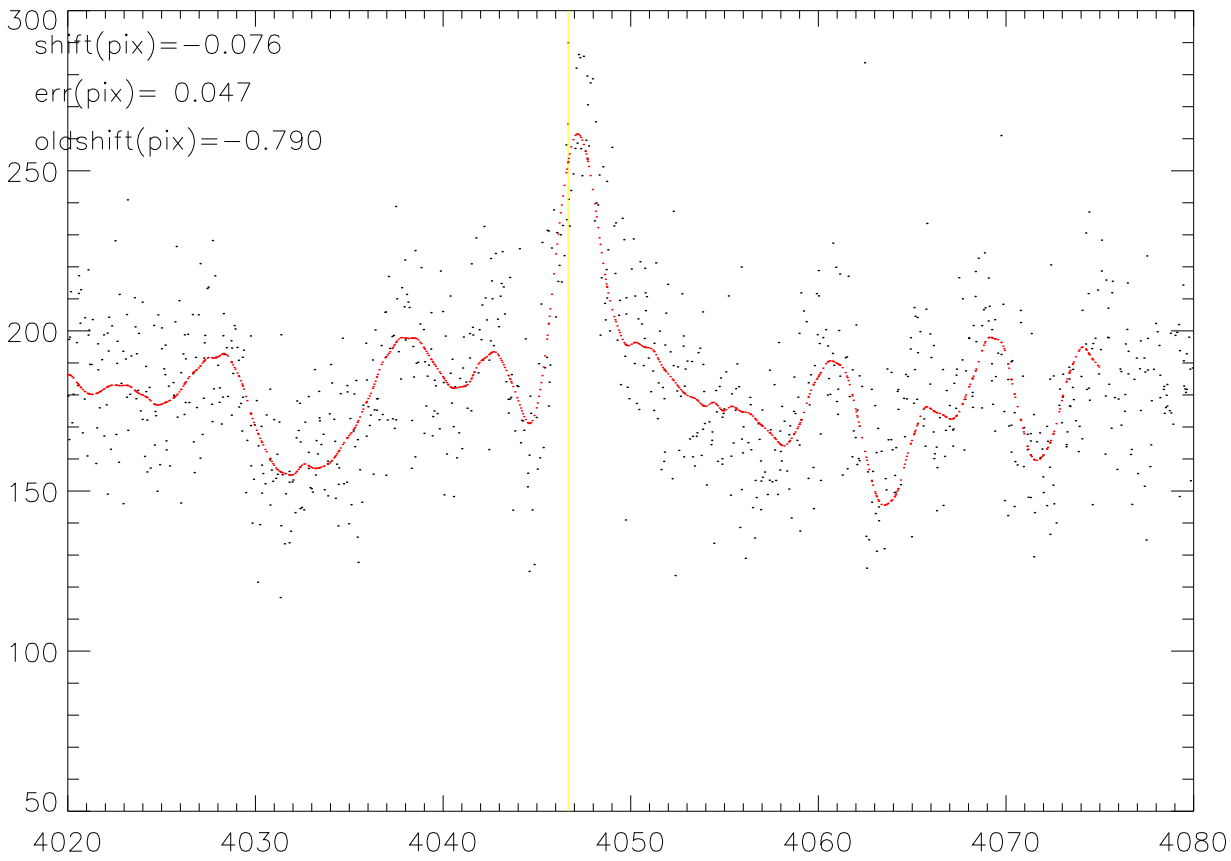

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR−b2−00010853.f
Brightness [electrons/pix]
15
10
5
0
Error bars denote full range
Min value = 9.102
Max value = 12.620
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 01:17:08 2008

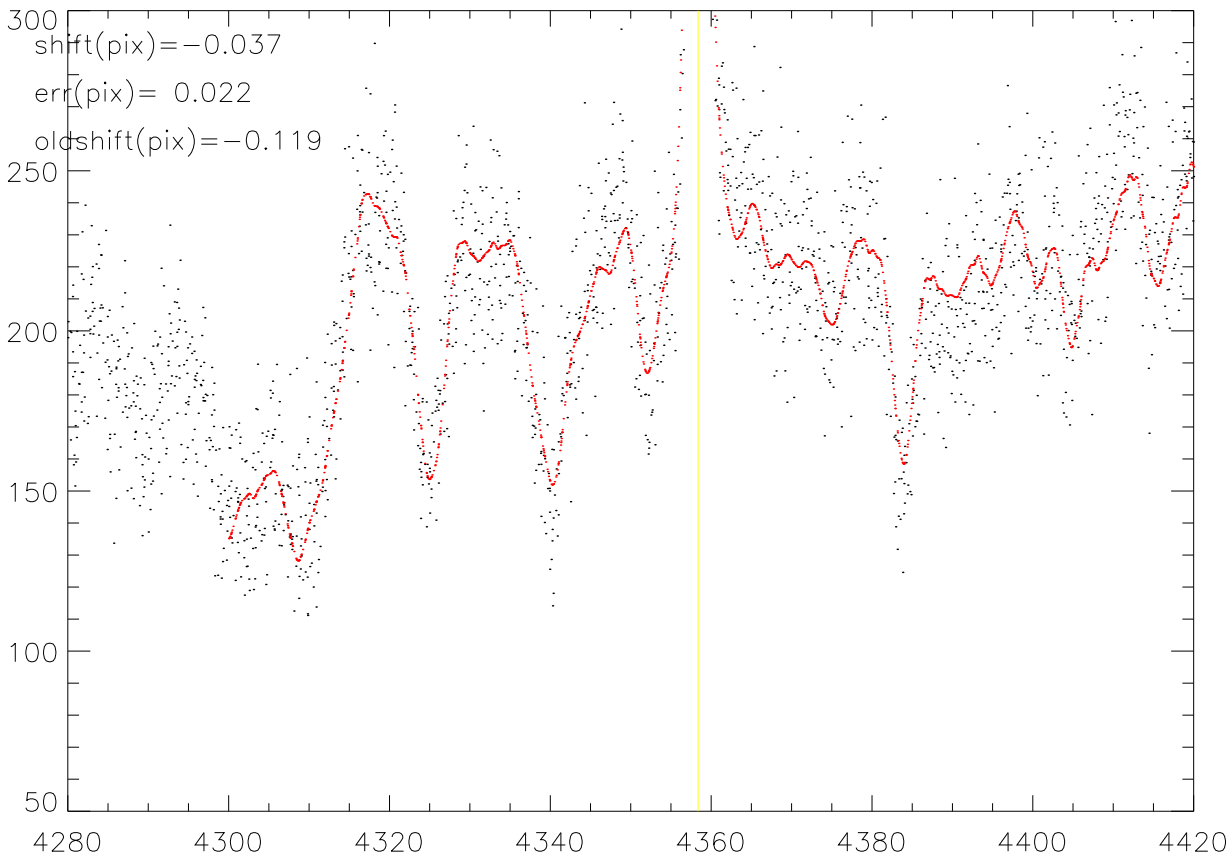

PLATE=0655 MJD=52162 Scattered Light on sdR-b2-00010853.fit
5.64
6.73
7.82
5.64
6.73
5.64
4.55
5.64
5.64
6.73
6.73
7.82
7.82
7.82
Y [pix]
X [pix]
0
500
1000
1500
2000

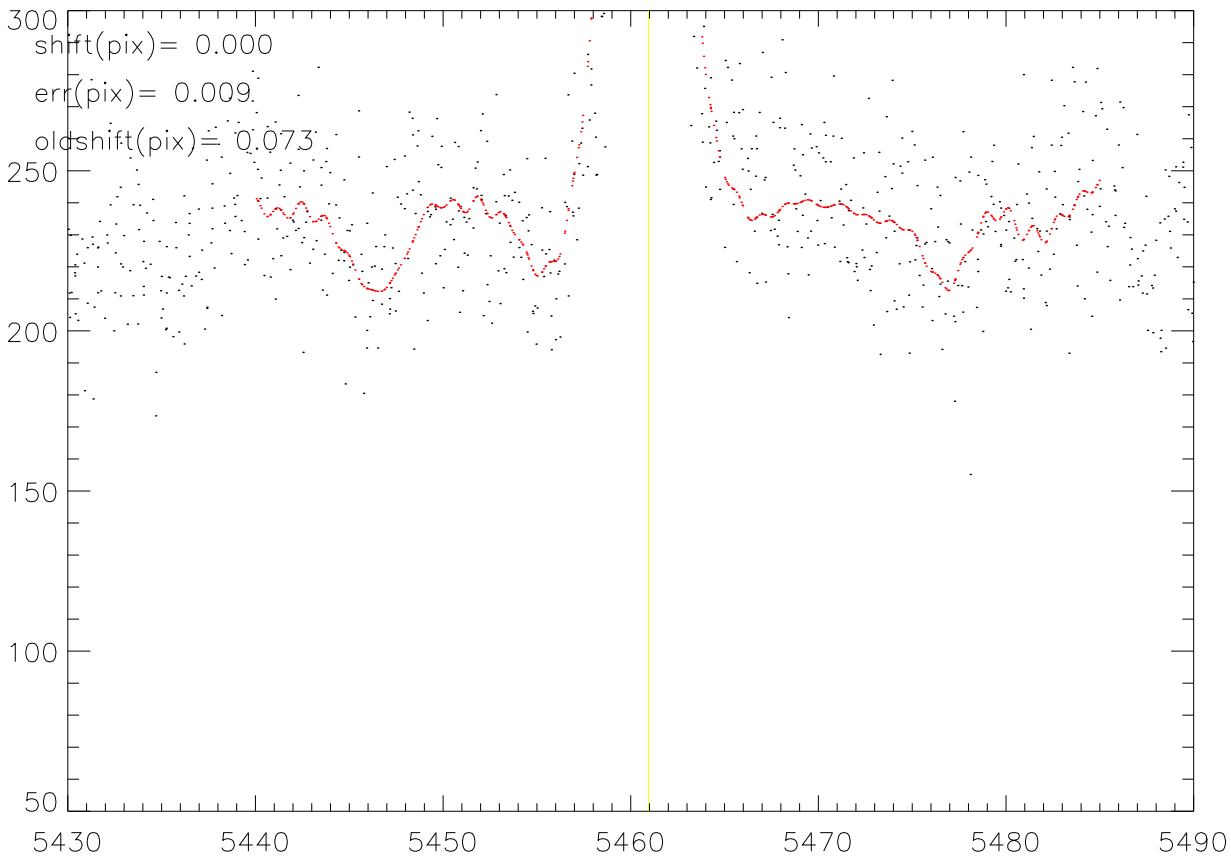

PLATE=0655 MJD=52162 Scattered Light on sdR-b2-00010853.fit
Brightness [electrons/pix]
10
8
6
4
2
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 4.532
Max value = 7.937
Tue Feb 26 01:20:02 2008

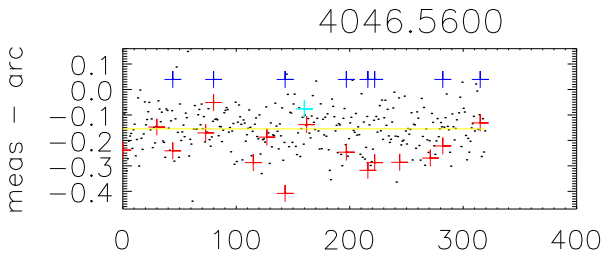

PLATE=0655 MJD=52162 Extraction chi^2 for sdR-b2-00010853.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

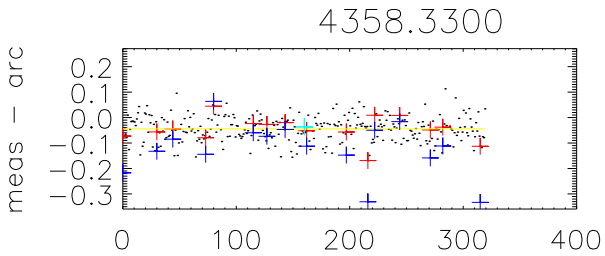

4046.5600
off: −0.79
sig: 0.072
4358.3300
off: −0.12
sig: 0.024
5460.9400
off: 0.07
sig: 0.017
5577.3390
off: 0.04
sig: 0.003
5889.9500
off: 0.16
sig: 0.010
5895.9240
off: 0.11
sig: 0.012

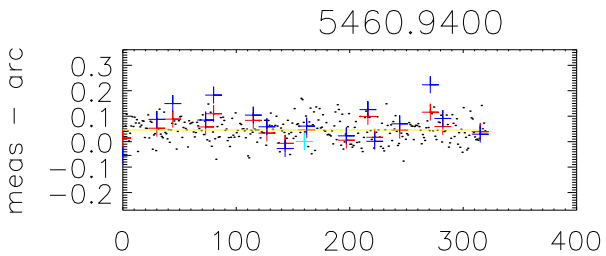

shift(pix)=−0.076
err(pix)= 0.047
oldshift(pix)=−0.790
300
250
200
150
100
50
4020
4030
4040
4050
4060
4070
4080

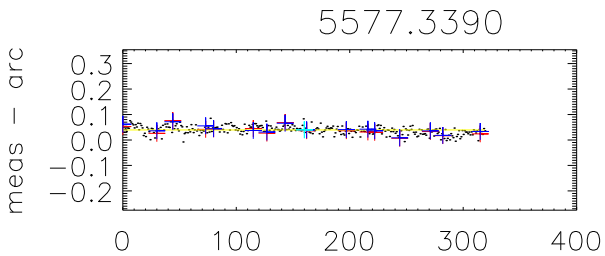

shift(pix)=−0.037
err(pix)= 0.022
oldshift(pix)=−0.119
300
250
200
150
100
50
4280
4300
4320
4340
4360
4380
4400
4420

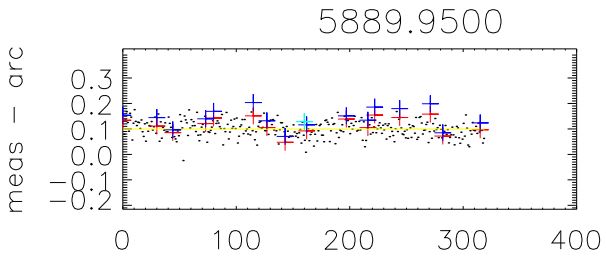

shift(pix)= 0.000
err(pix)= 0.009
oldshift(pix)= 0.073
300
250
200
150
100
50
5430
5440
5450
5460
5470
5480
5490

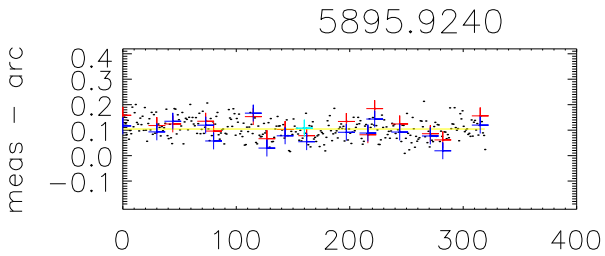

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

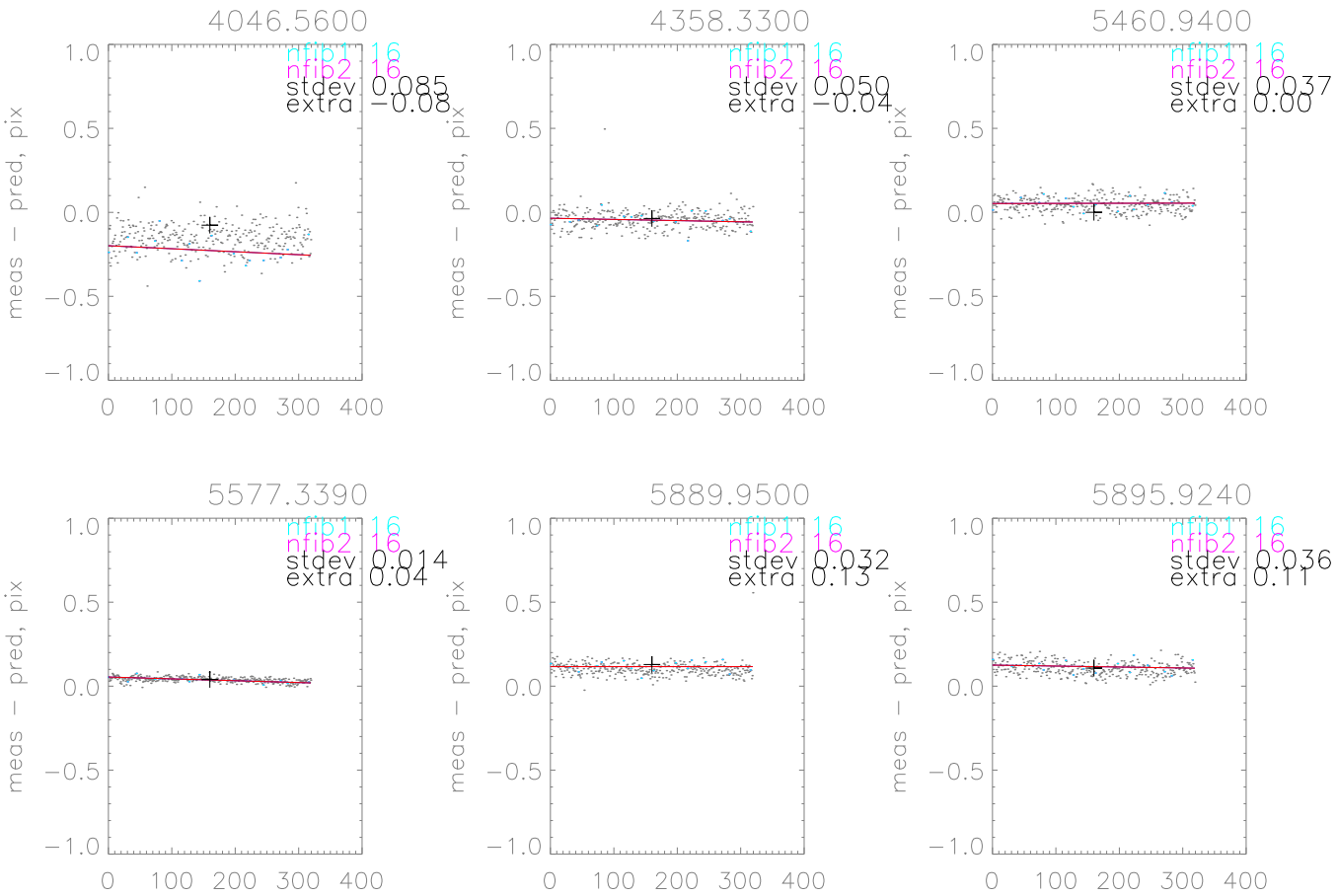

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

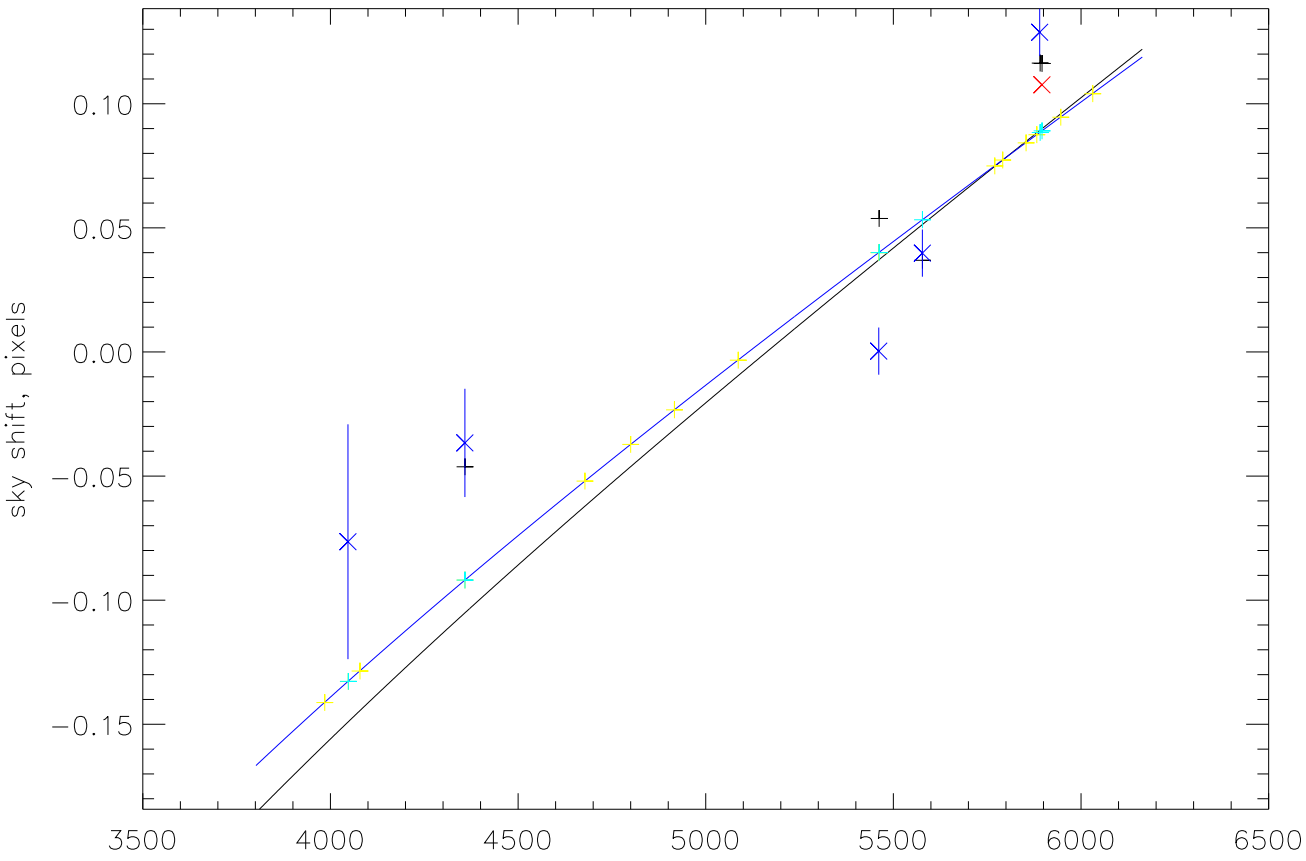

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

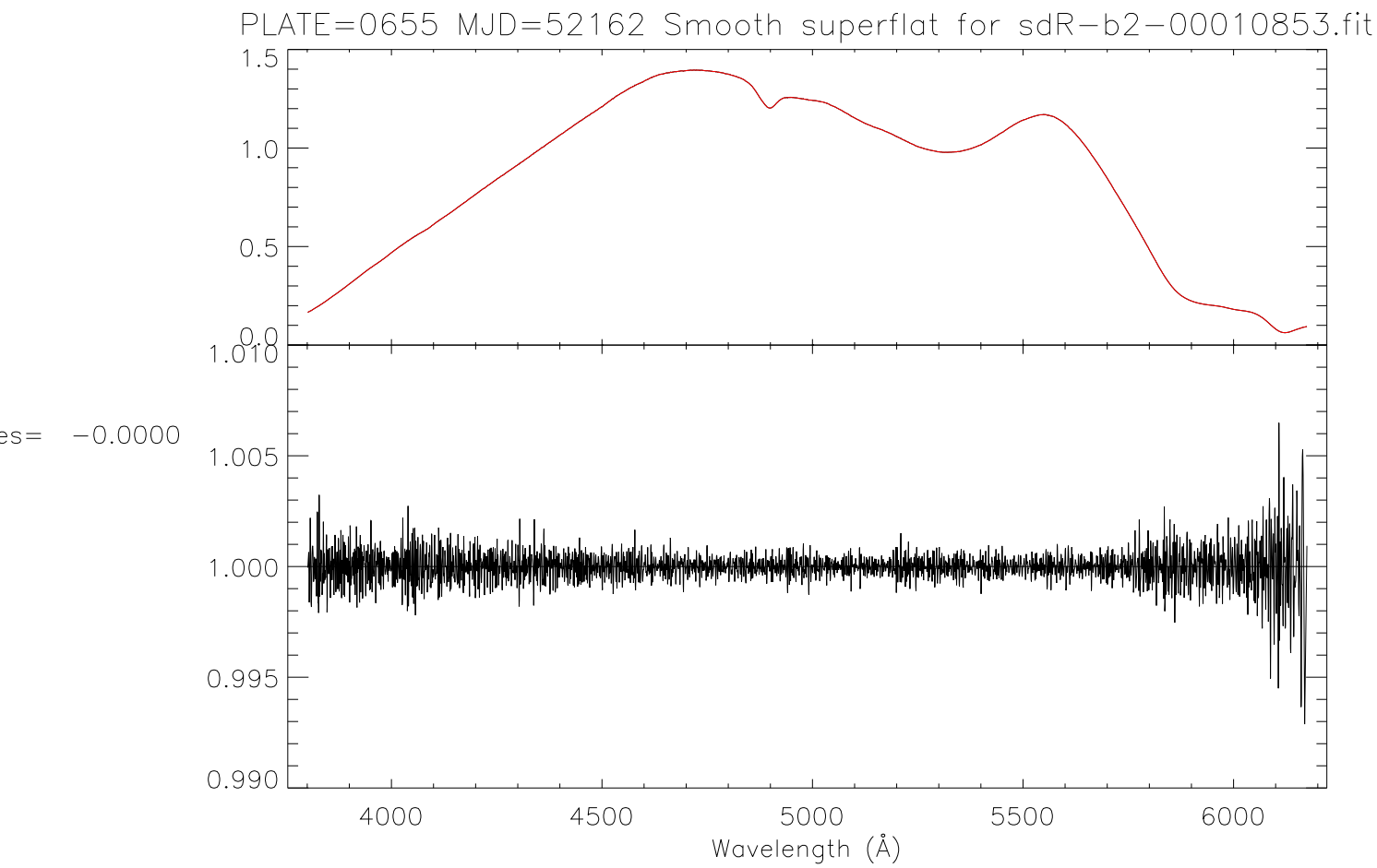

5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

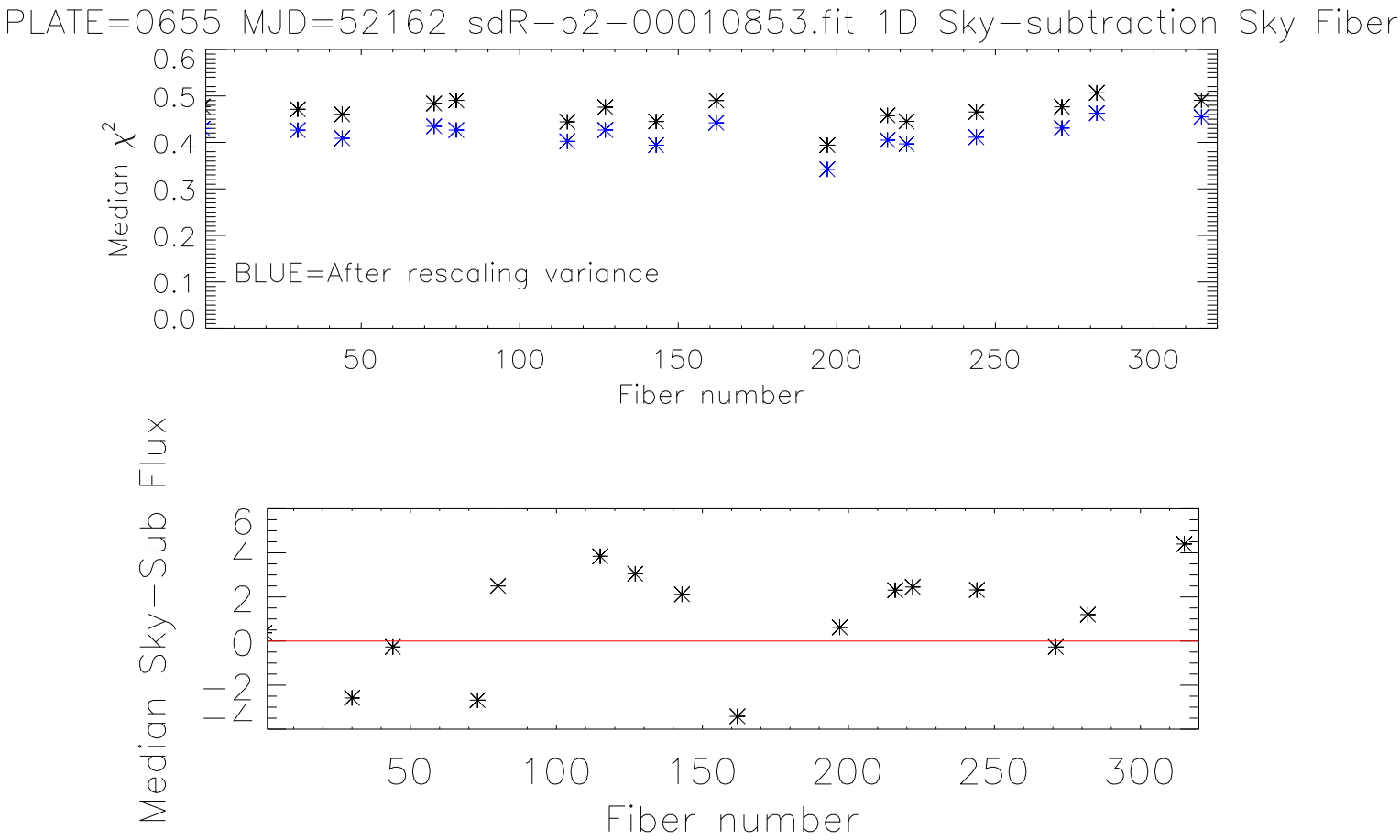

5889.9500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

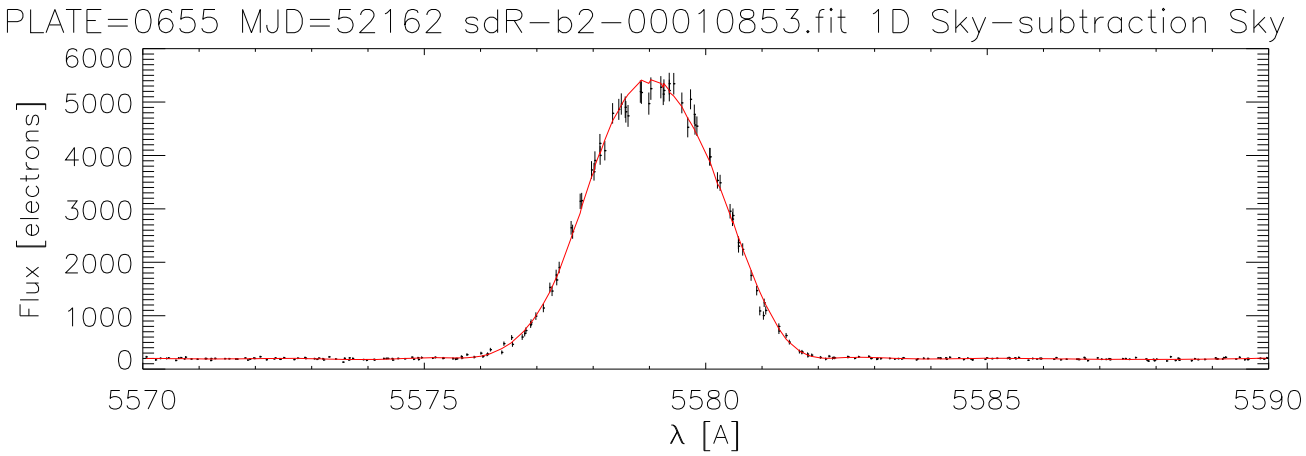

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

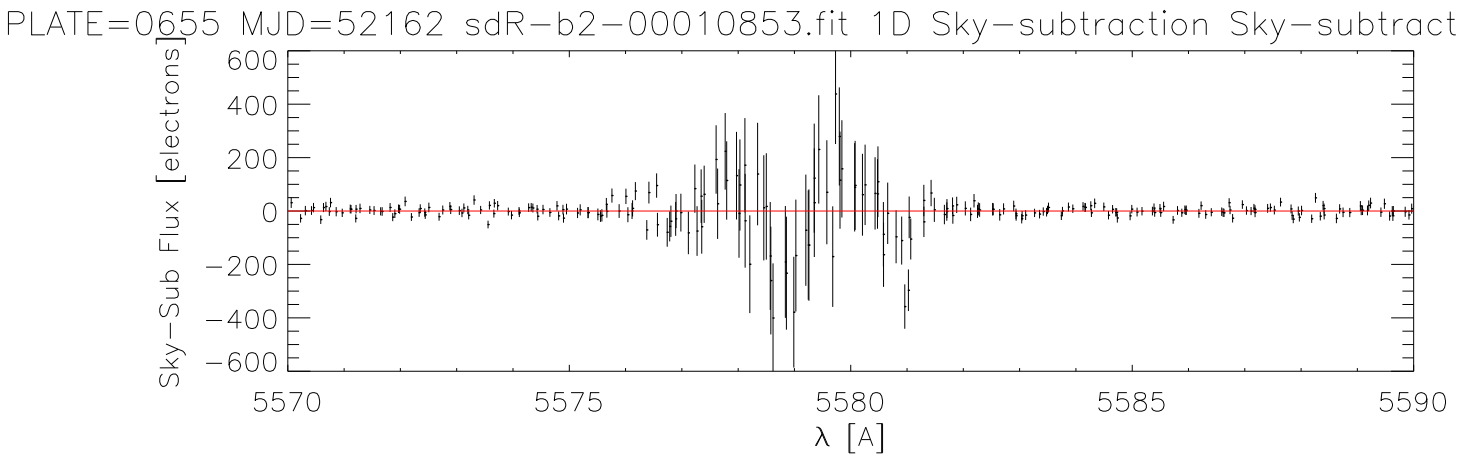

4046.5600
nfib1 16
nfib2 16
stdev 0.085
extra −0.08
4358.3300
nfib1 16
nfib2 16
stdev 0.050
extra −0.04
5460.9400
nfib1 16
nfib2 16
stdev 0.037
extra 0.00
5577.3390
nfib1 16
nfib2 16
stdev 0.014
extra 0.04
5889.9500
nfib1 16
nfib2 16
stdev 0.032
extra 0.13
5895.9240
nfib1 16
nfib2 16
stdev 0.036
extra 0.11
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

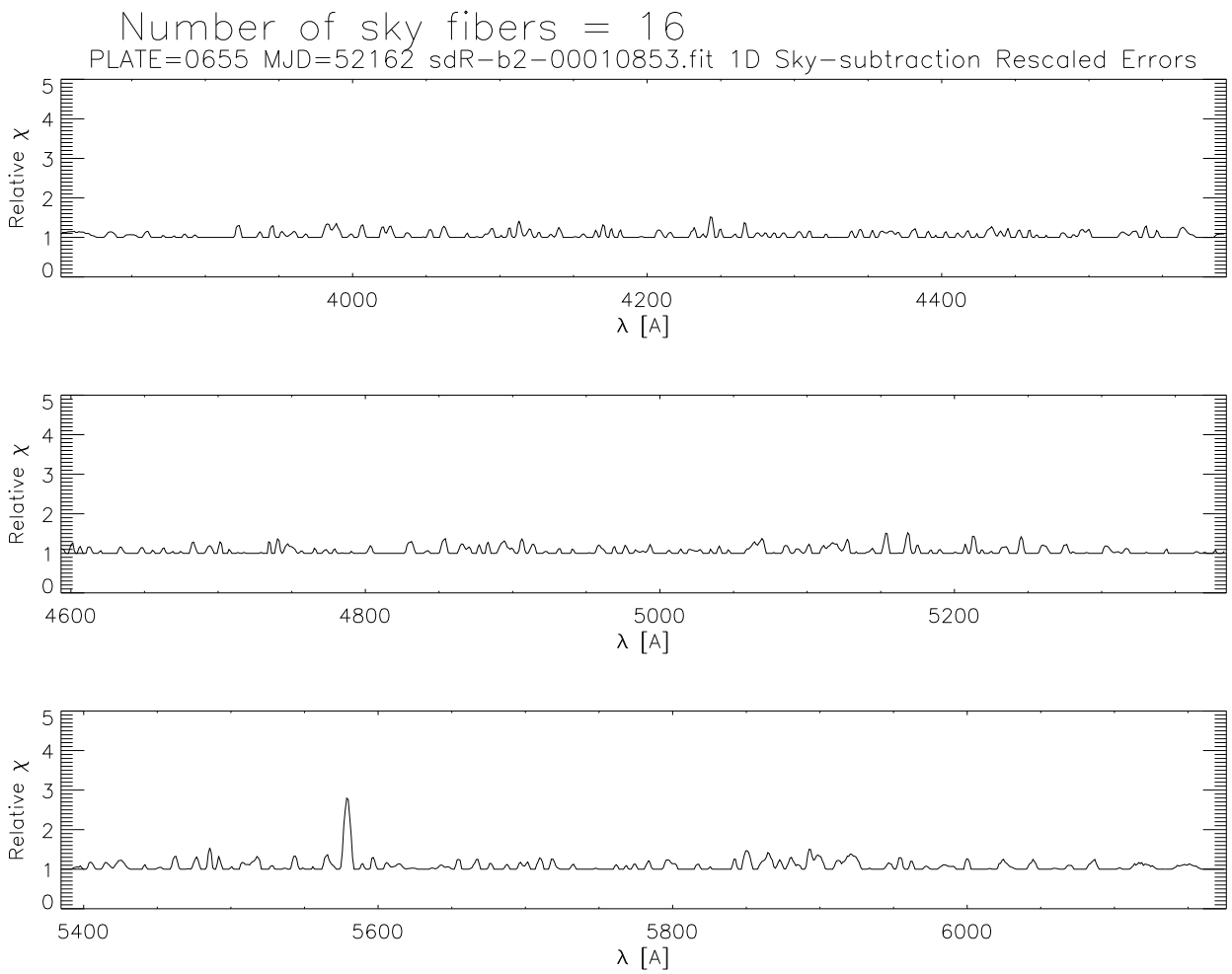

0.10
0.05
0.00
−0.05
−0.10
−0.15
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

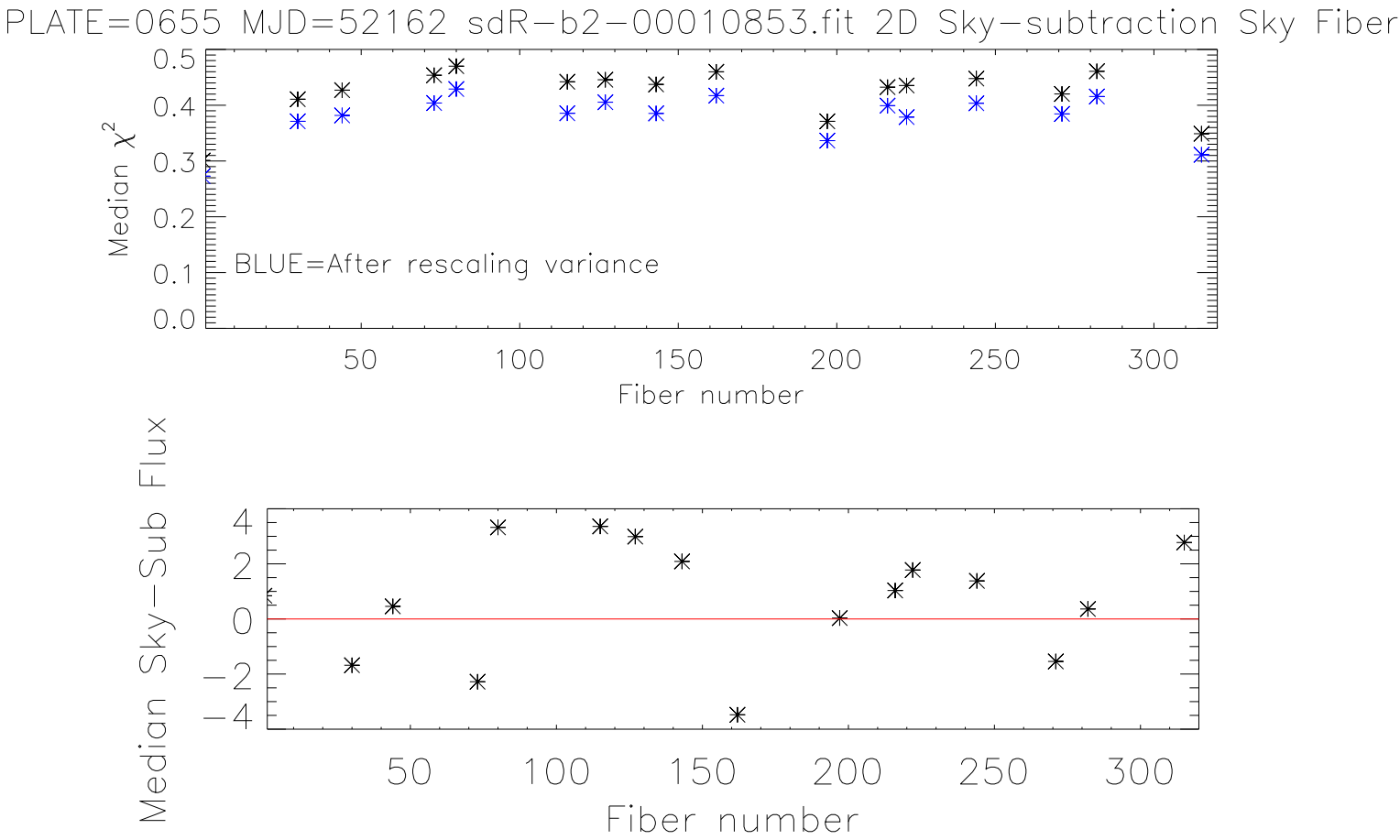

PLATE=0655 MJD=52162 Smooth superflat for sdR-b2-00010853.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

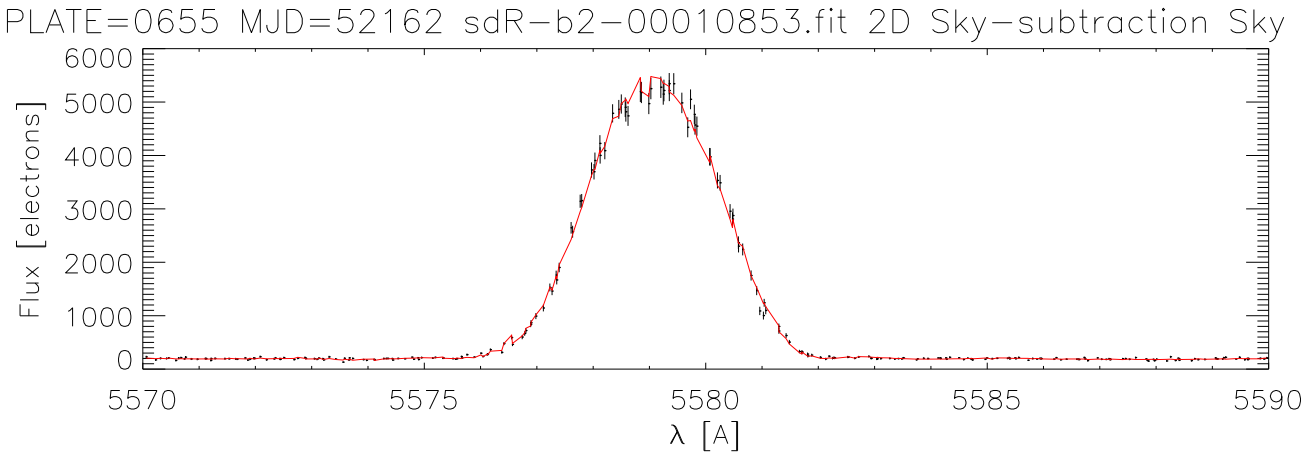

PLATE=0655 MJD=52162 sdR-b2-00010853.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

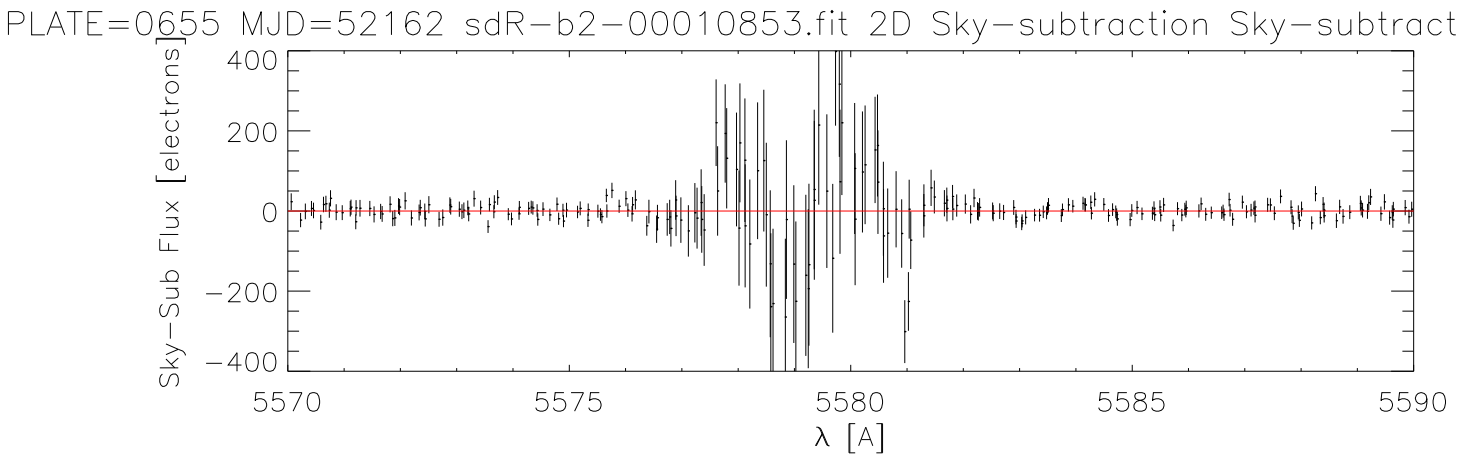

PLATE=0655 MJD=52162 sdR-b2-00010853.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

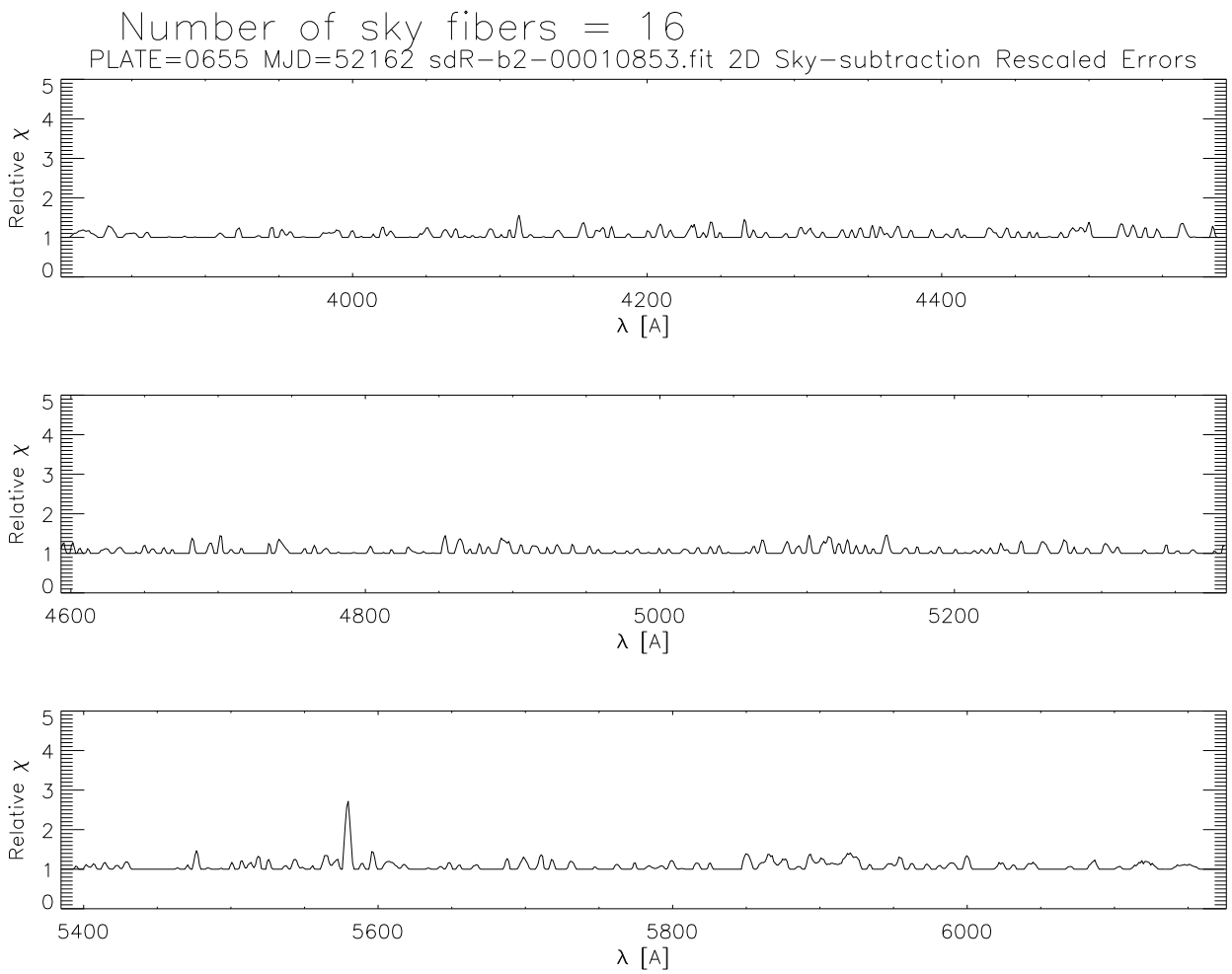

PLATE=0655 MJD=52162 sdR-b2-00010853.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
−200
−400
−600
5570
5575
5580
5585
5590
λ [A]

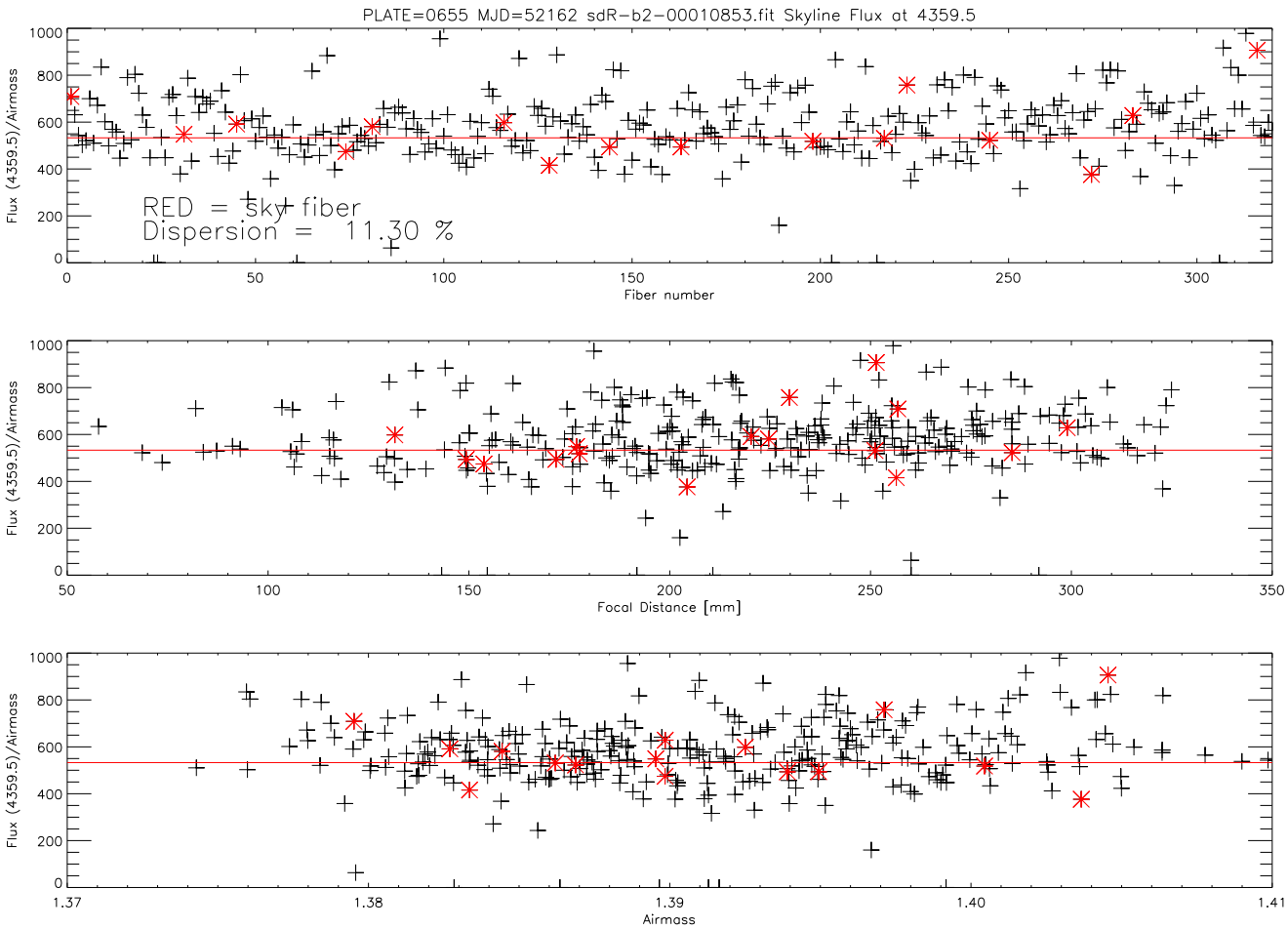

Number of sky fibers = 16
PLATE=0655 MJD=52162 sdR-b2-00010853.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

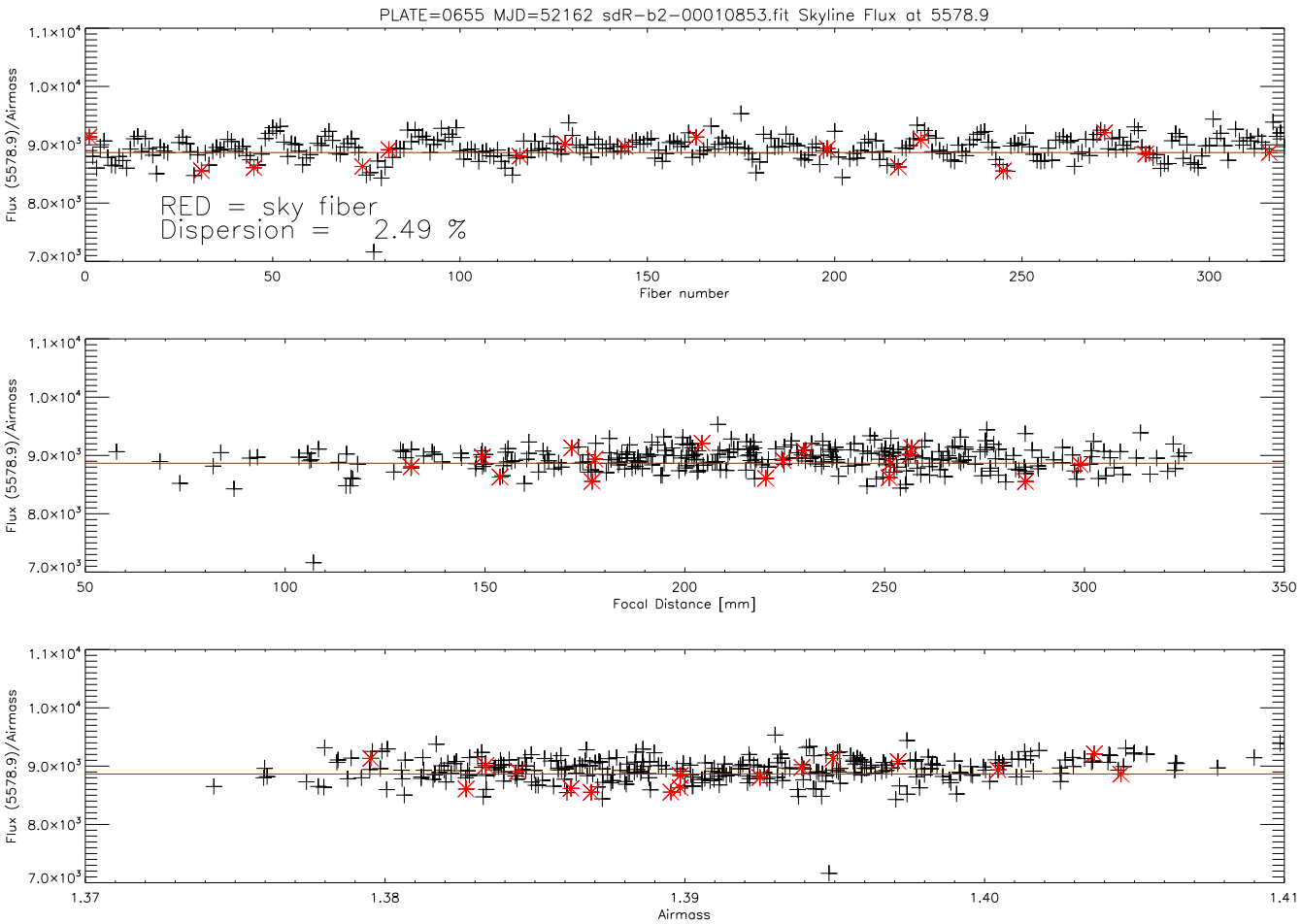

PLATE=0655 MJD=52162 sdR-b2-00010853.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

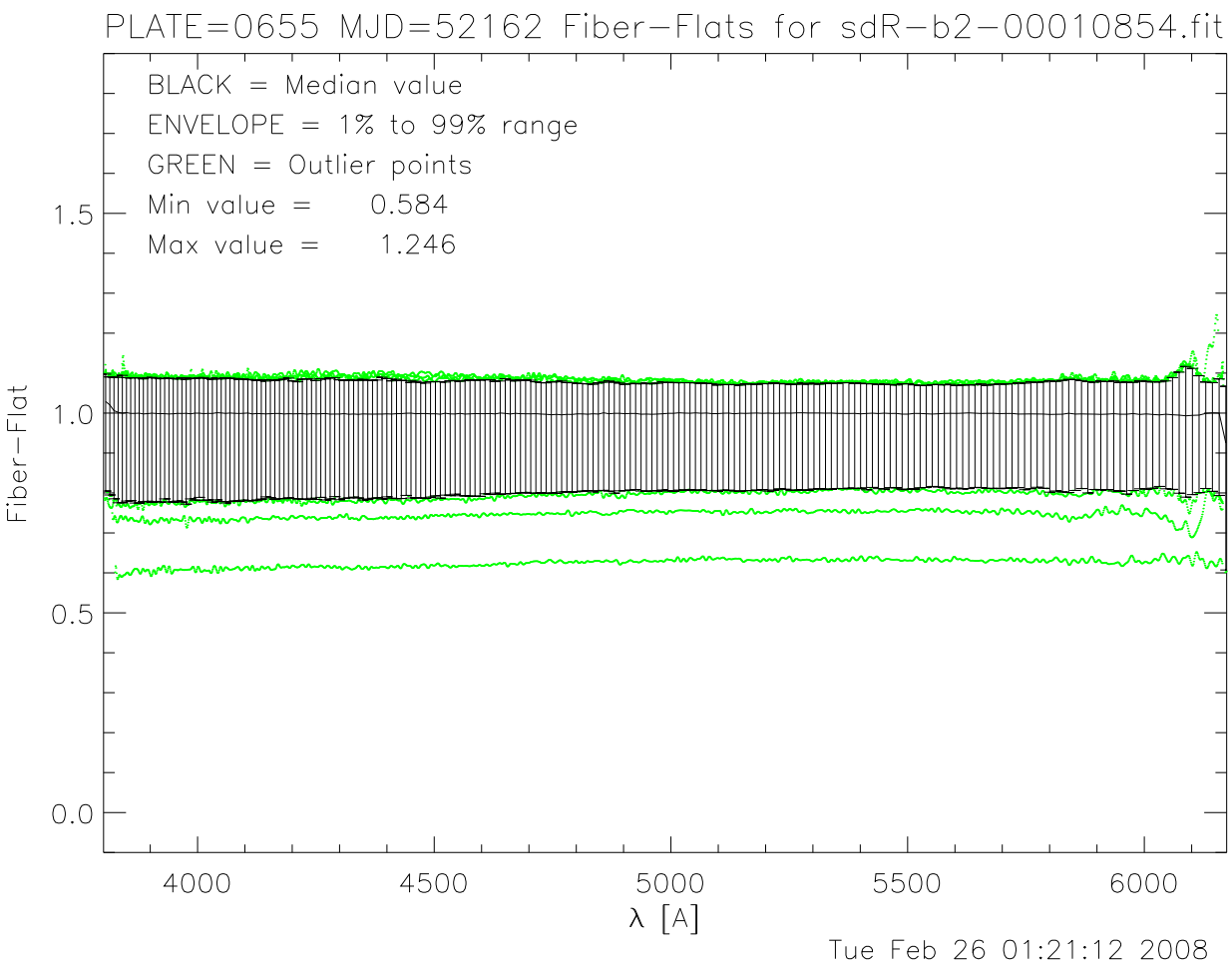

PLATE=0655 MJD=52162 sdR-b2-00010853.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

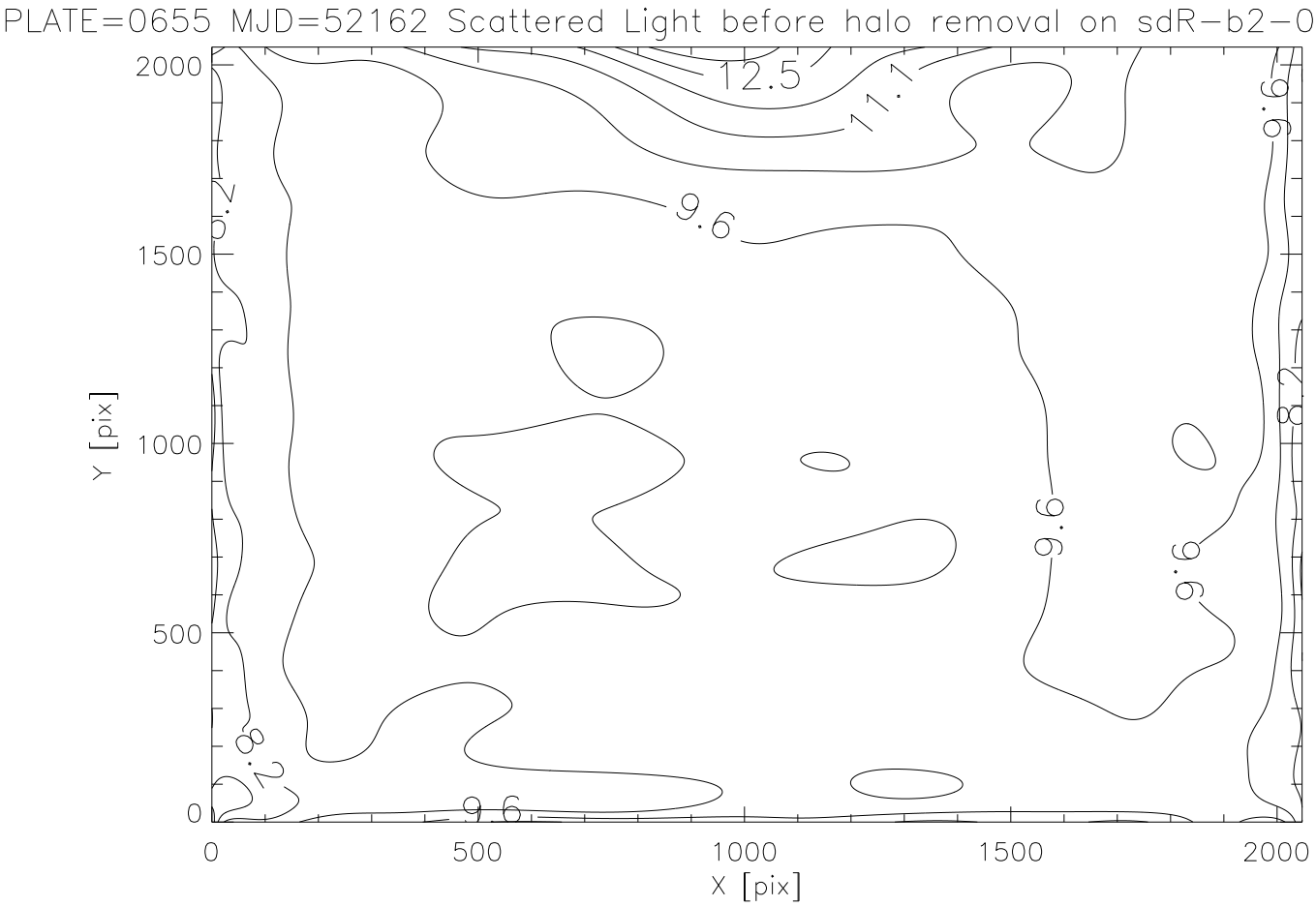

PLATE=0655 MJD=52162 sdR-b2-00010853.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

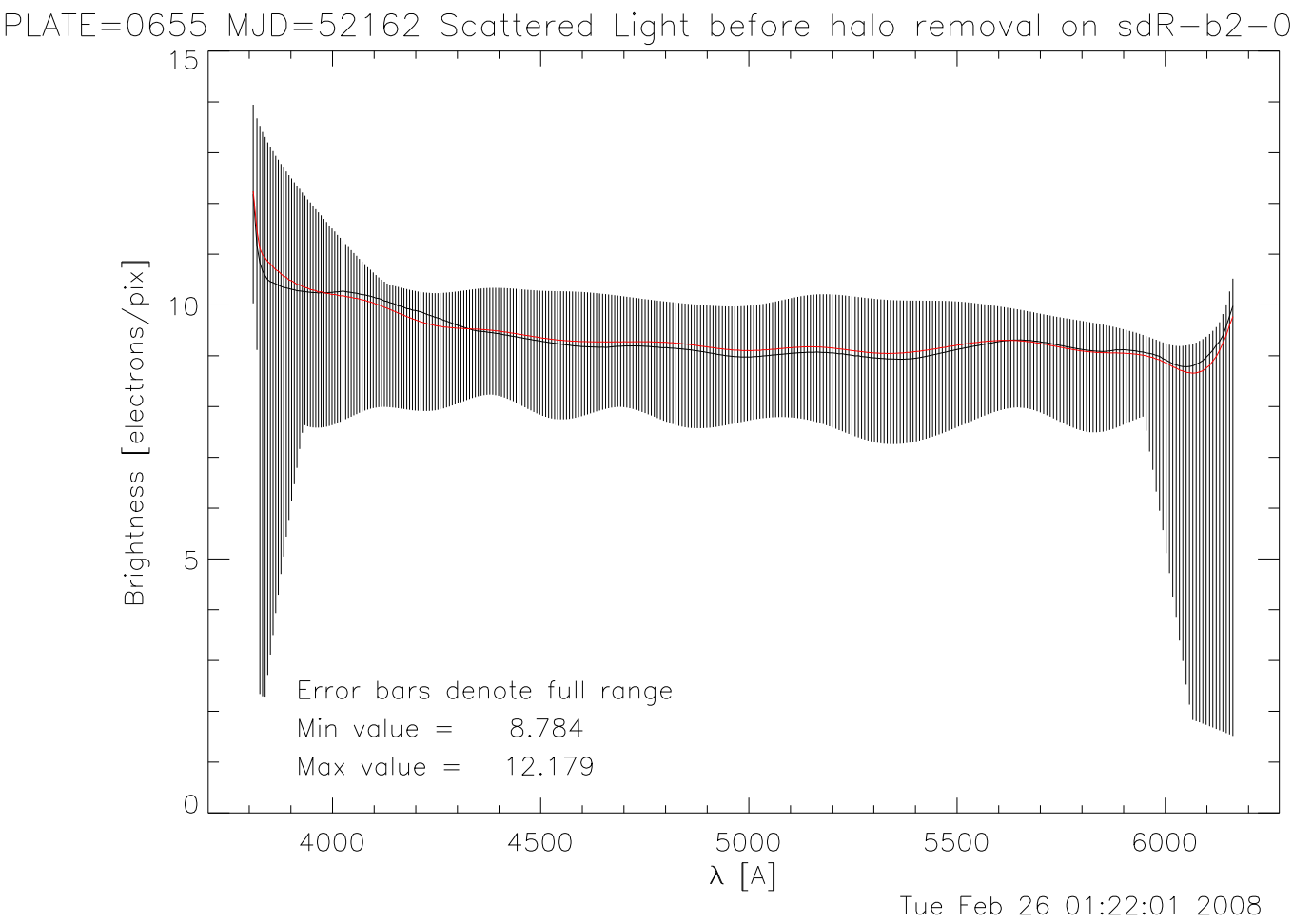

Number of sky fibers = 16
PLATE=0655 MJD=52162 sdR-b2-00010853.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

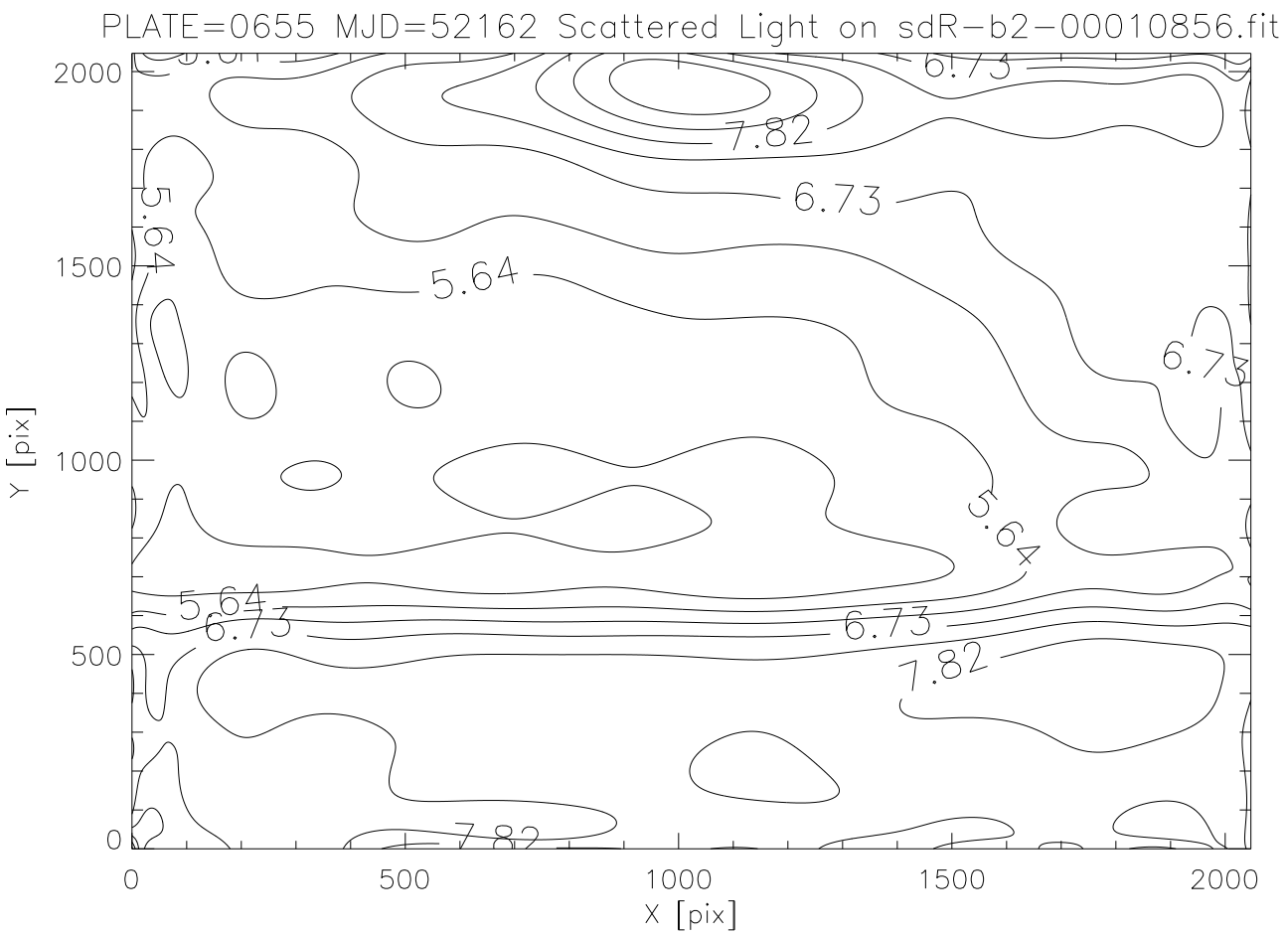

PLATE=0655 MJD=52162 sdR-b2-00010853.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 11.30 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

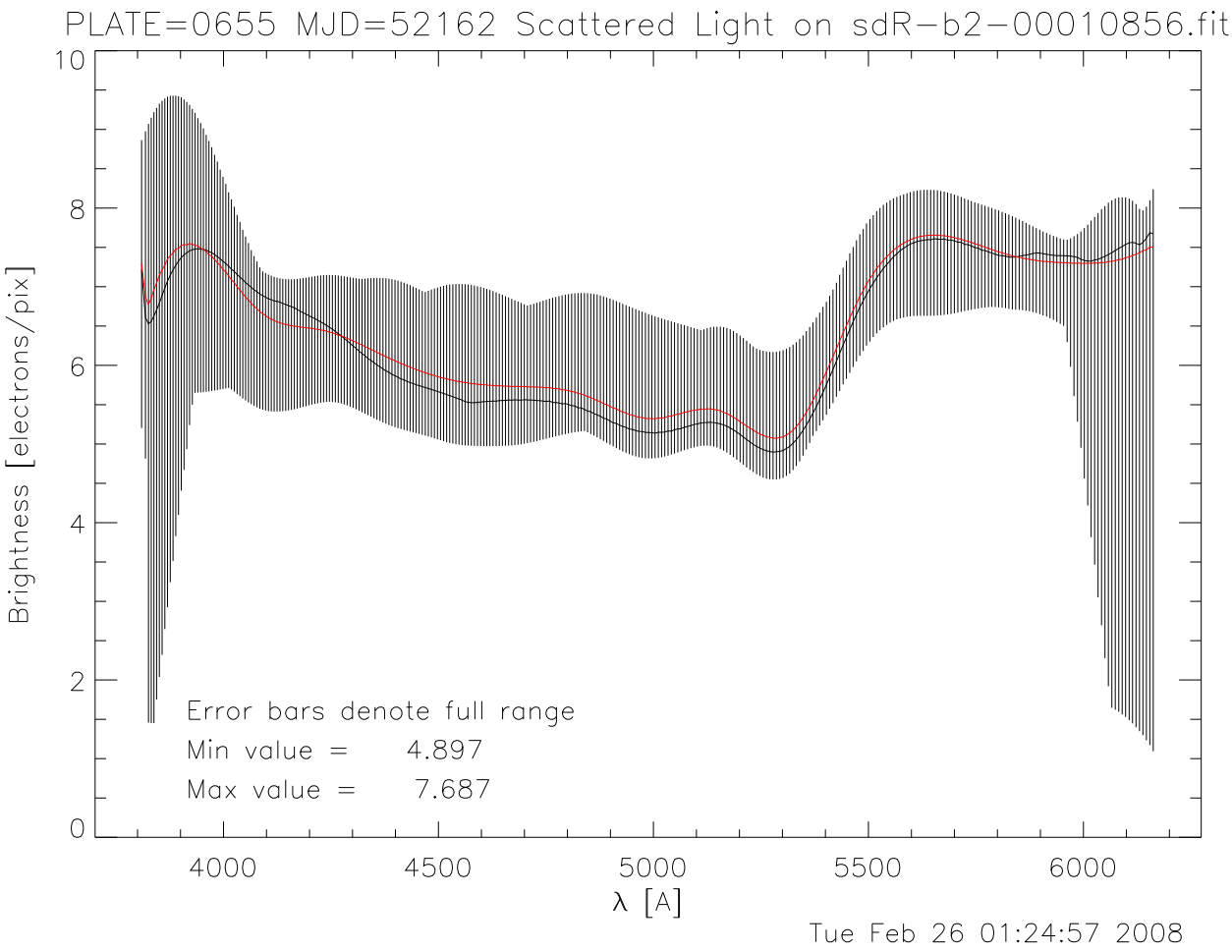

PLATE=0655 MJD=52162 sdR-b2-00010853.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.49 %
Fiber number
Focal Distance [mm]
Airmass

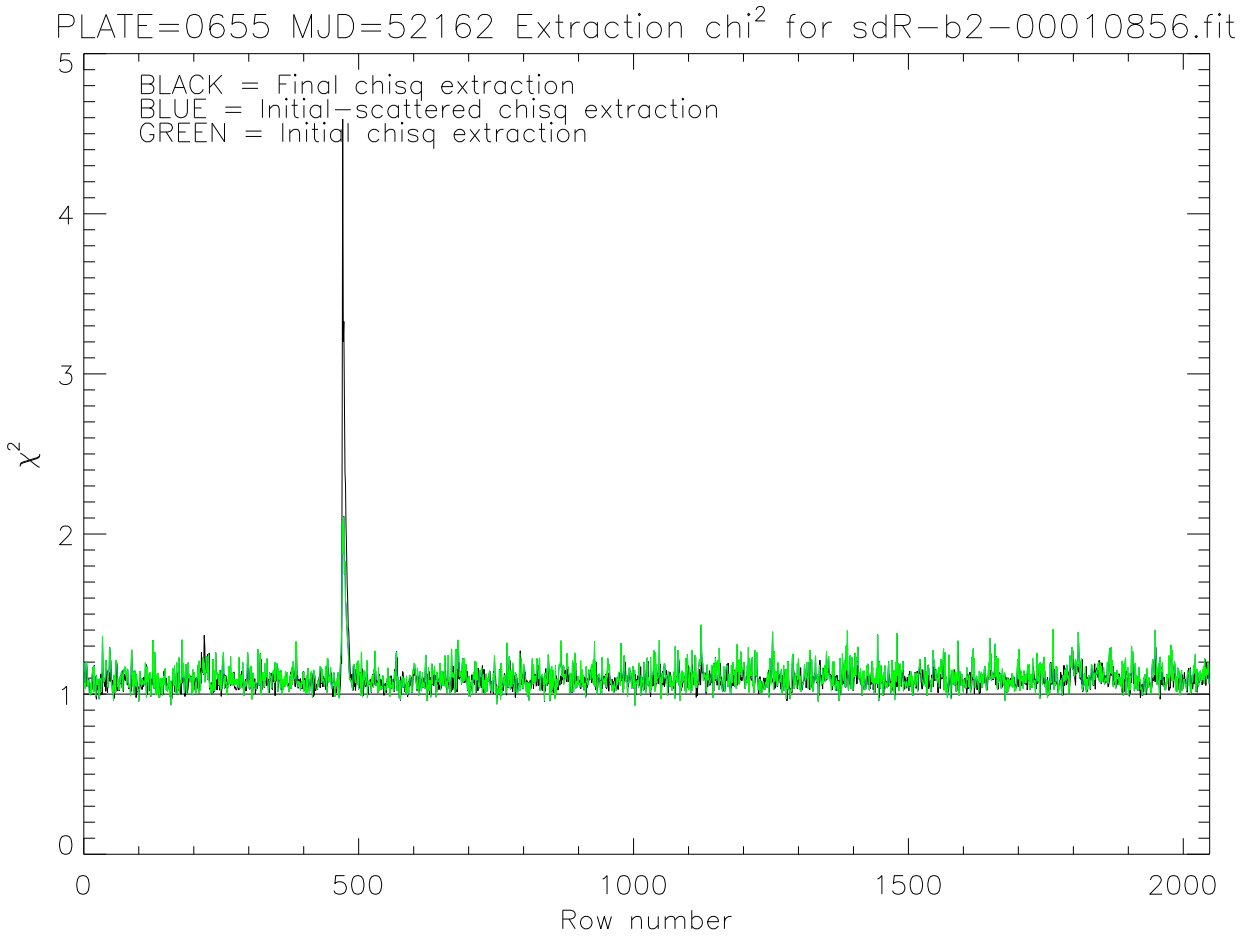

PLATE=0655 MJD=52162 Fiber-Flats for sdR-b2-00010854.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.584
Max value = 1.246
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 01:21:12 2008

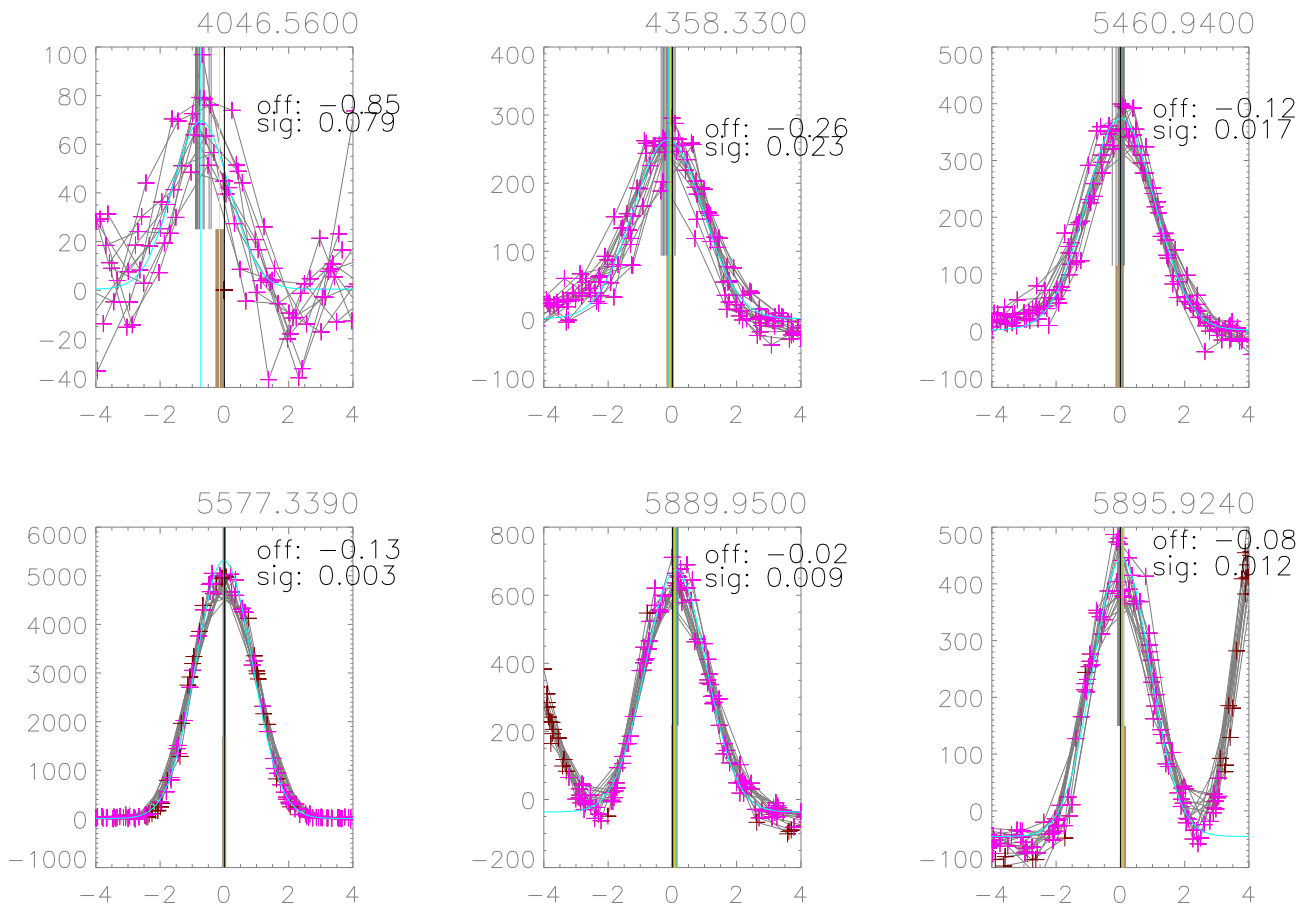

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-b2-00010856.f
12.5
11.1
9.6
9.6
9.6
9.6
9.6
8.2
8.2
8.2
9.6
Y [pix]
X [pix]
0
500
1000
1500
2000

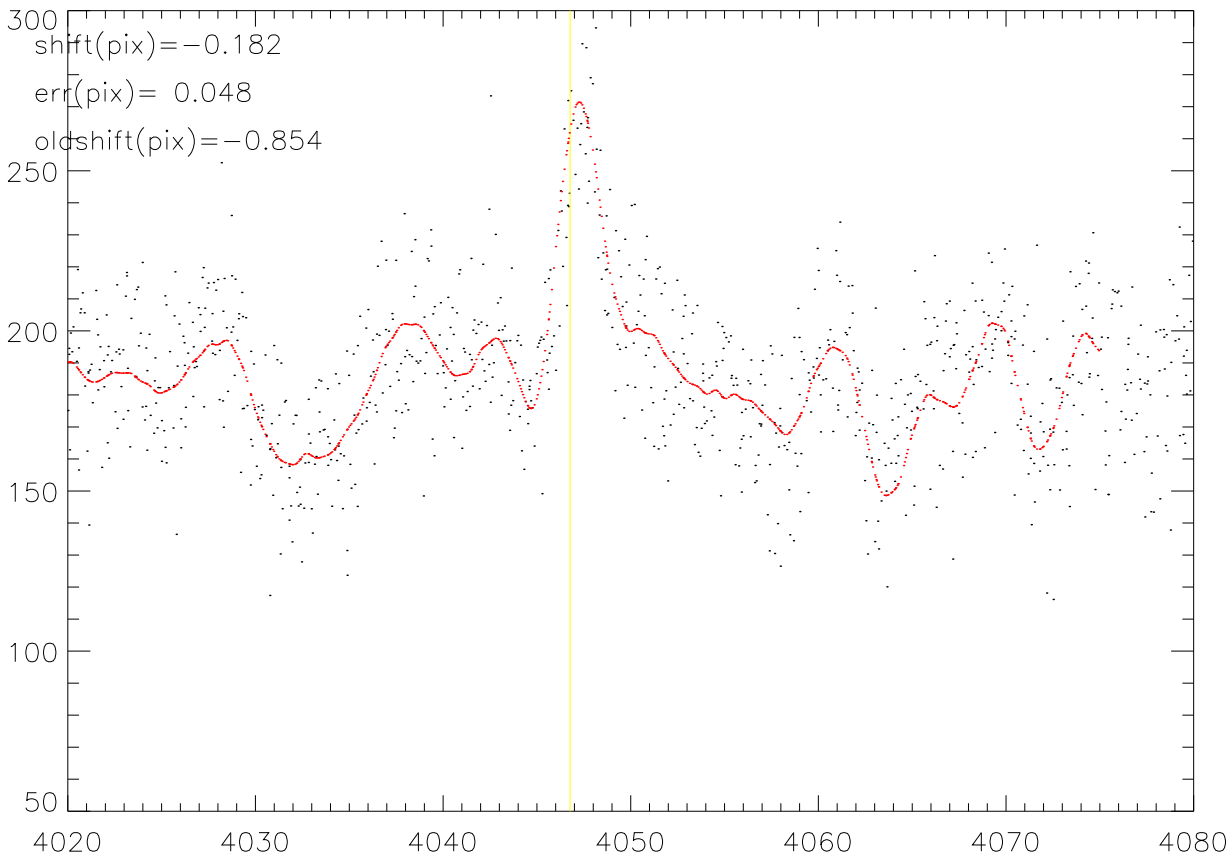

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-b2-00010856.f
Brightness [electrons/pix]
15
10
5
0
Error bars denote full range
Min value = 8.784
Max value = 12.179
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 01:22:01 2008

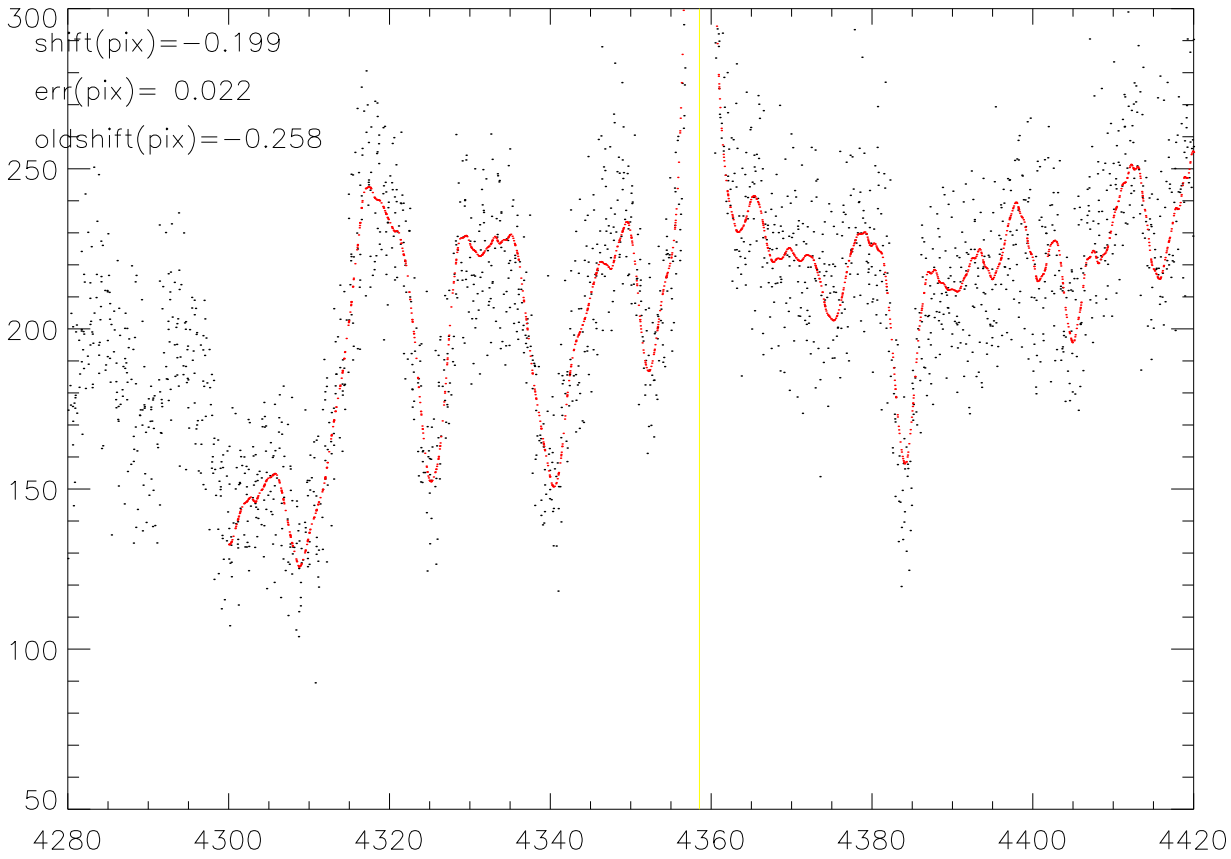

PLATE=0655 MJD=52162 Scattered Light on sdR-b2-00010856.fit
6.73
7.82
6.73
5.64
5.64
6.73
5.64
5.64
6.73
6.73
7.82
7.82
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

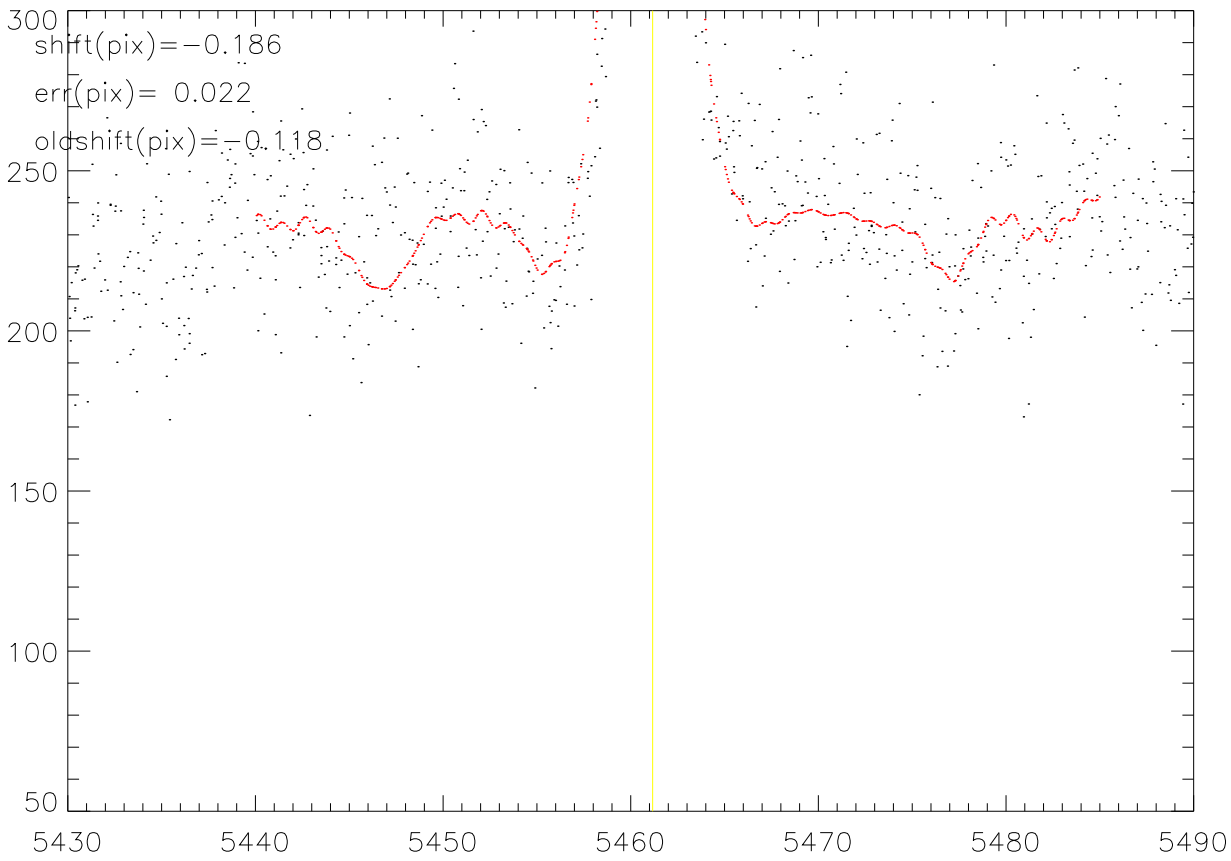

PLATE=0655 MJD=52162 Scattered Light on sdR-b2-00010856.fit
Brightness [electrons/pix]
10
8
6
4
2
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 4.897
Max value = 7.687
Tue Feb 26 01:24:57 2008

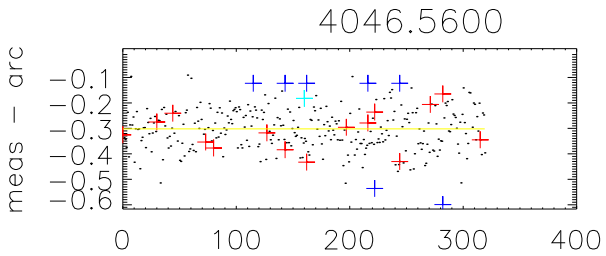

PLATE=0655 MJD=52162 Extraction chi^2 for sdR-b2-00010856.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

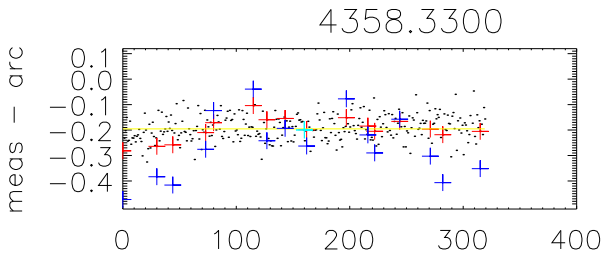

4046.5600
off: −0.85
sig: 0.079
4358.3300
off: −0.26
sig: 0.023
5460.9400
off: −0.12
sig: 0.017
5577.3390
off: −0.13
sig: 0.003
5889.9500
off: −0.02
sig: 0.009
5895.9240
off: −0.08
sig: 0.012

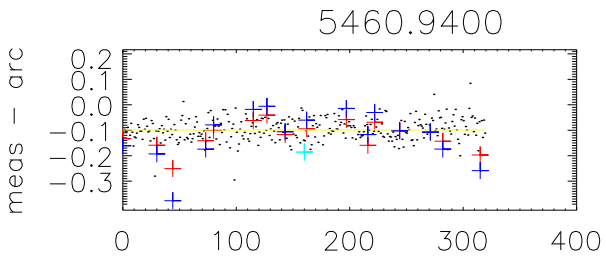

shift(pix)=−0.182
err(pix)= 0.048
oldshift(pix)=−0.854
300
250
200
150
100
50
4020
4030
4040
4050
4060
4070
4080

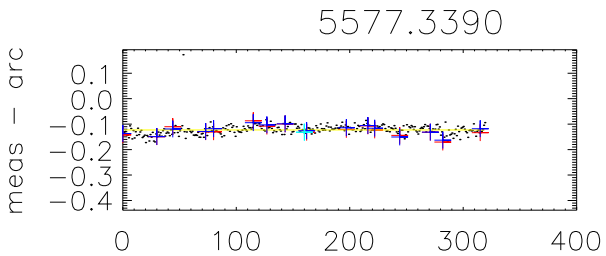

shift(pix)=−0.199
err(pix)= 0.022
oldshift(pix)=−0.258
300
250
200
150
100
50
4280
4300
4320
4340
4360
4380
4400
4420

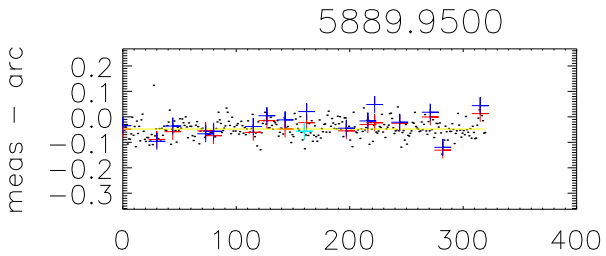

shift(pix)=−0.186
err(pix)= 0.022
oldshift(pix)=−0.118
300
250
200
150
100
50
5430
5440
5450
5460
5470
5480
5490

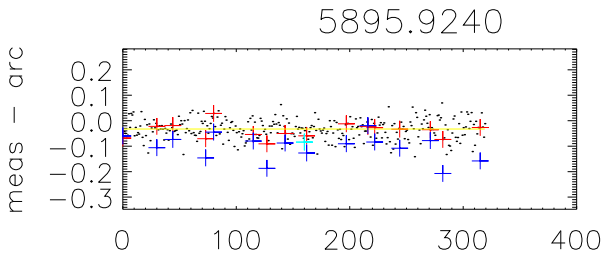

4046.5600
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

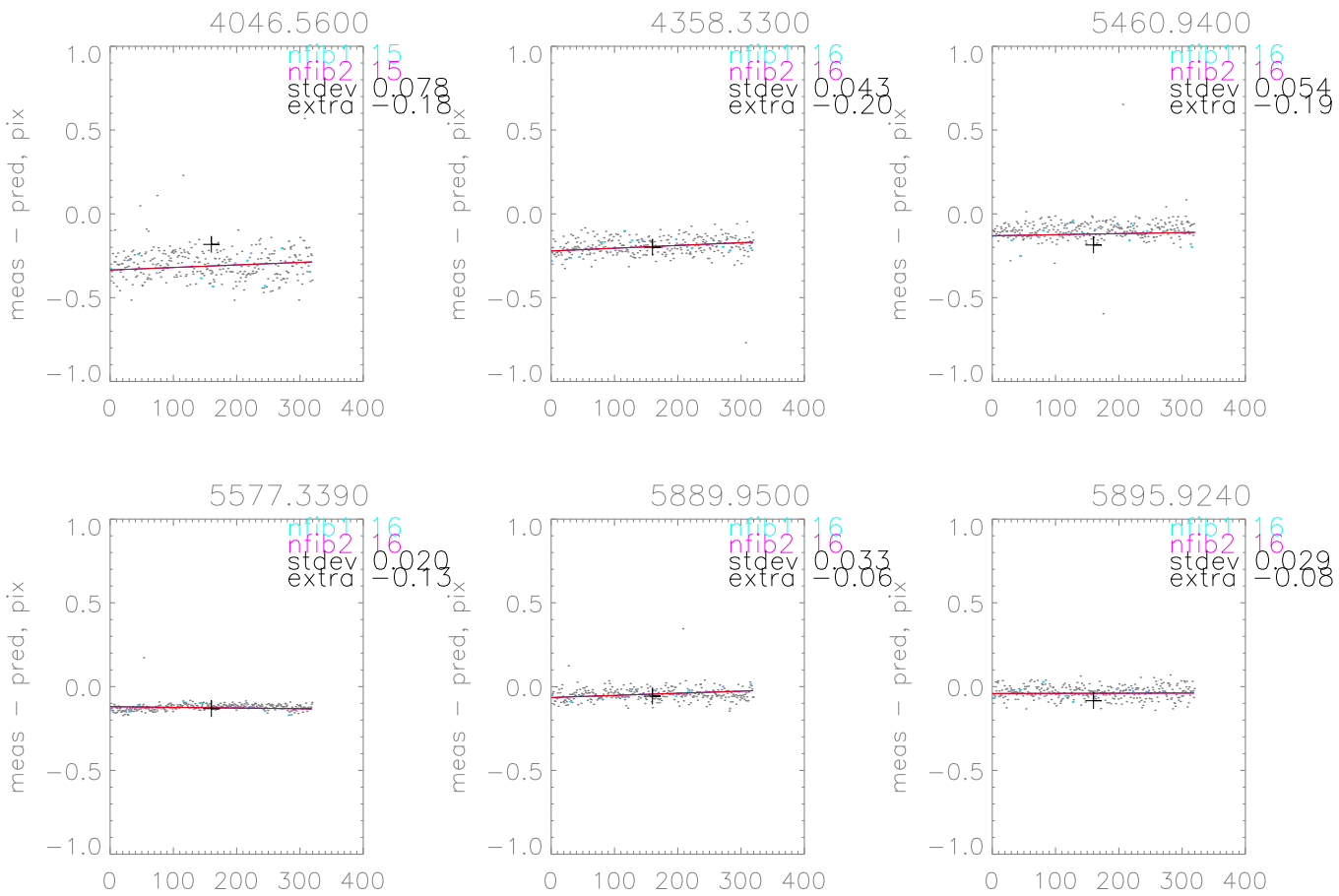

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

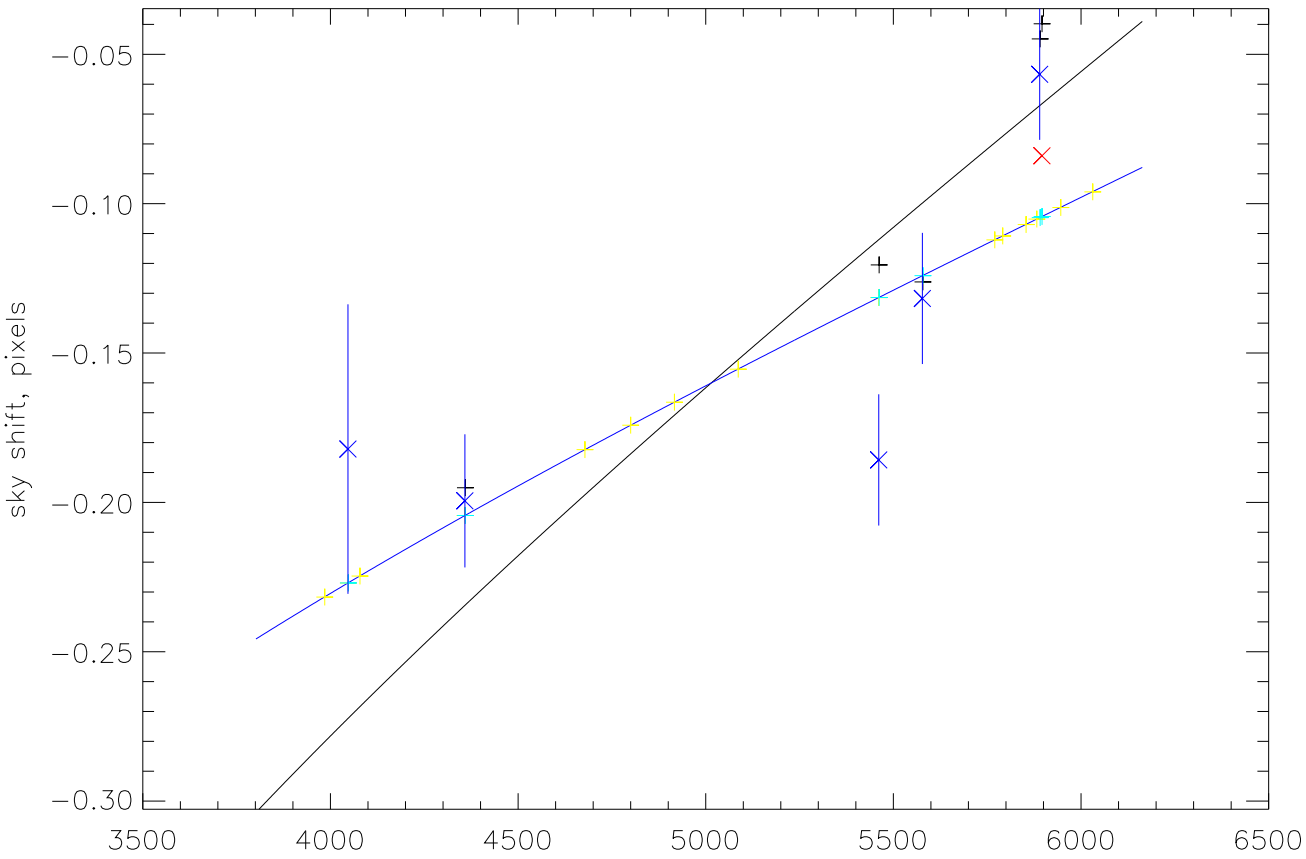

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

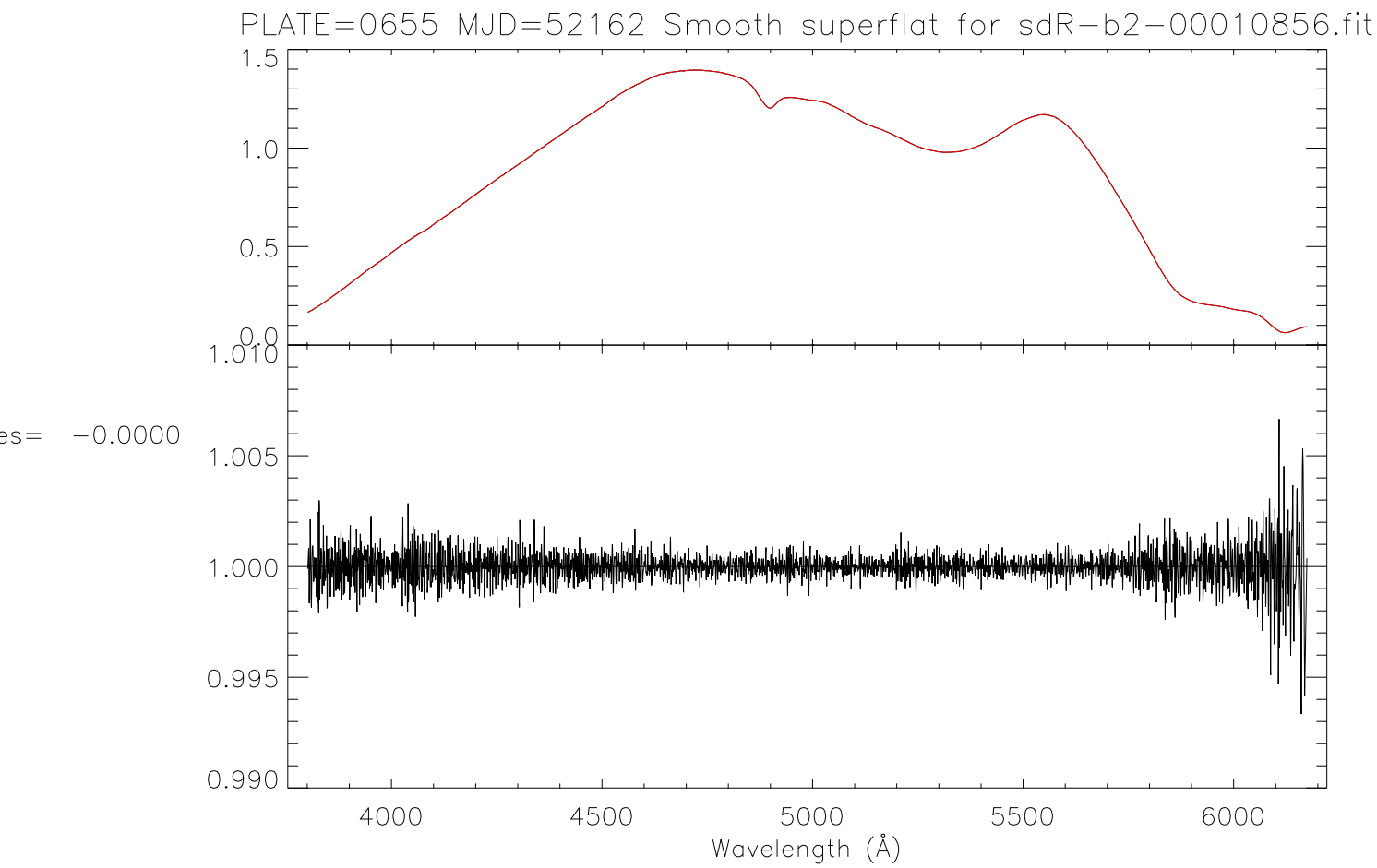

5577.3390
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

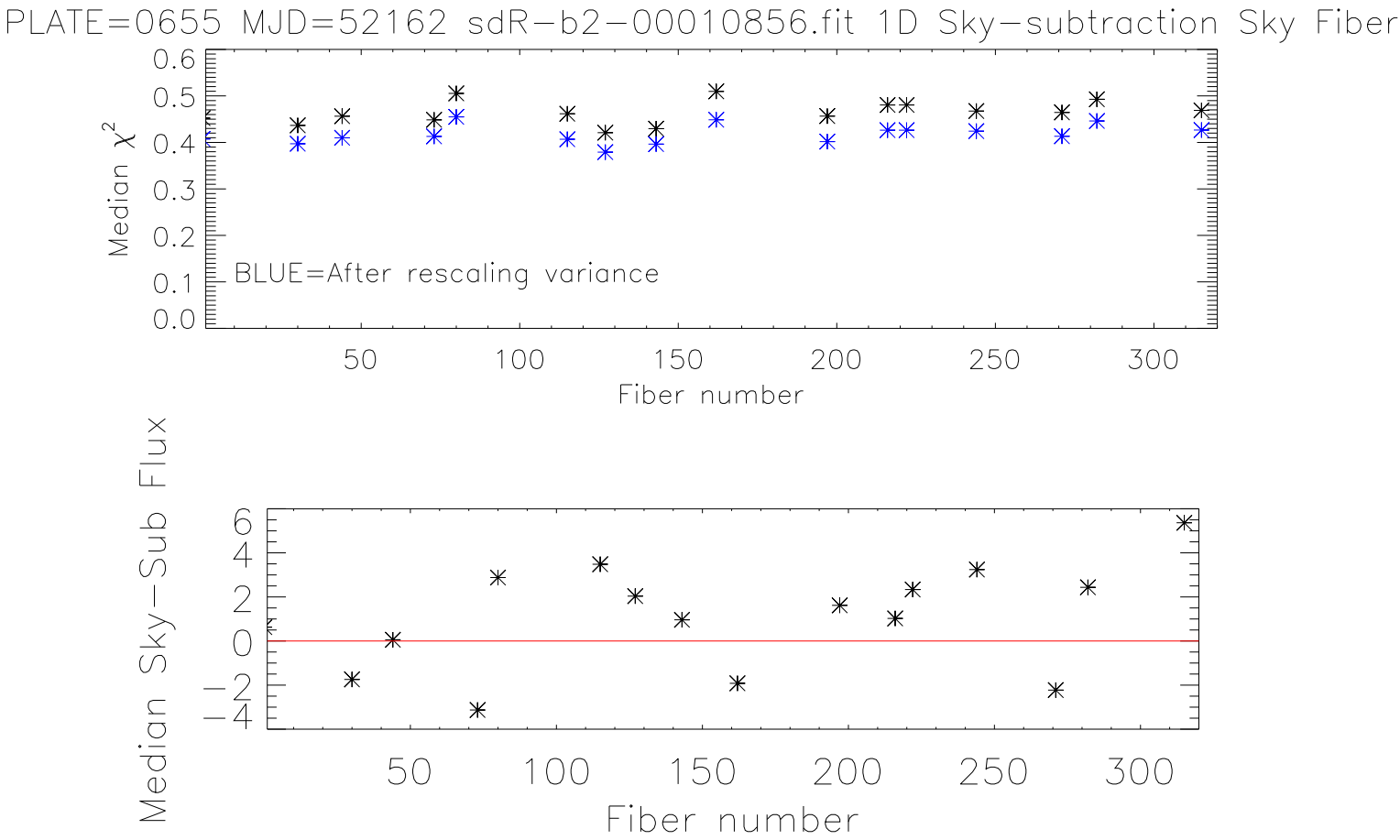

5889.9500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

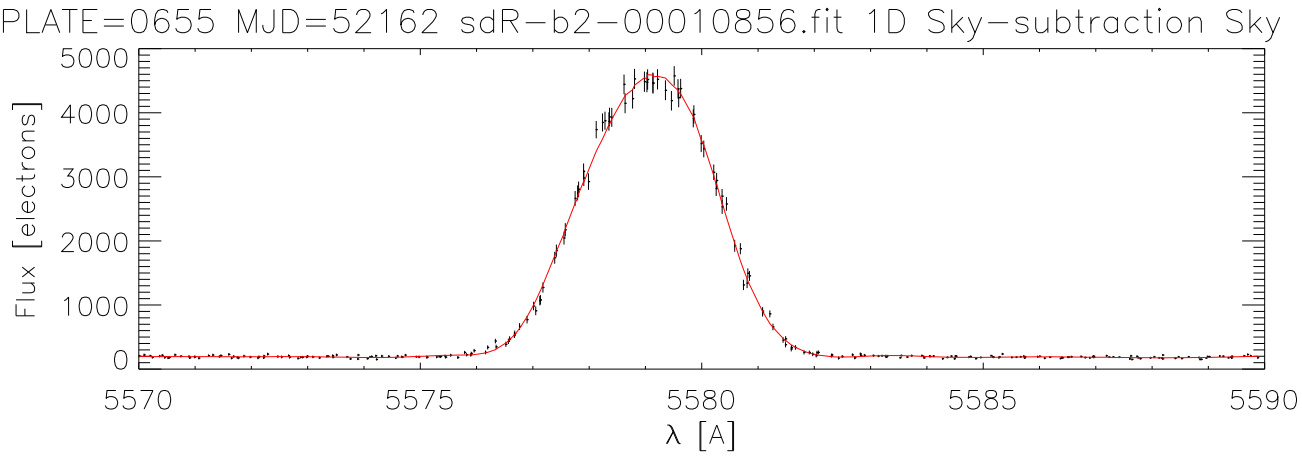

5895.9240
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

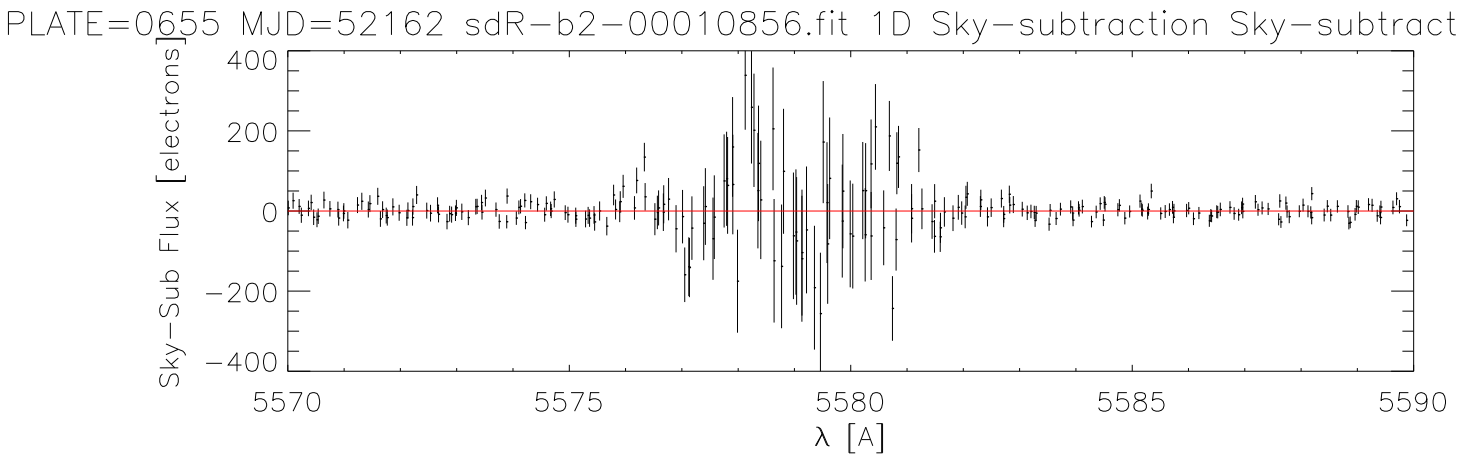

4046.5600
nfib1 15
nfib2 15
stdev 0.078
extra −0.18
4358.3300
nfib1 16
nfib2 16
stdev 0.043
extra −0.20
5460.9400
nfib1 16
nfib2 16
stdev 0.054
extra −0.19
5577.3390
nfib1 16
nfib2 16
stdev 0.020
extra −0.13
5889.9500
nfib1 16
nfib2 16
stdev 0.033
extra −0.06
5895.9240
nfib1 16
nfib2 16
stdev 0.029
extra −0.08
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

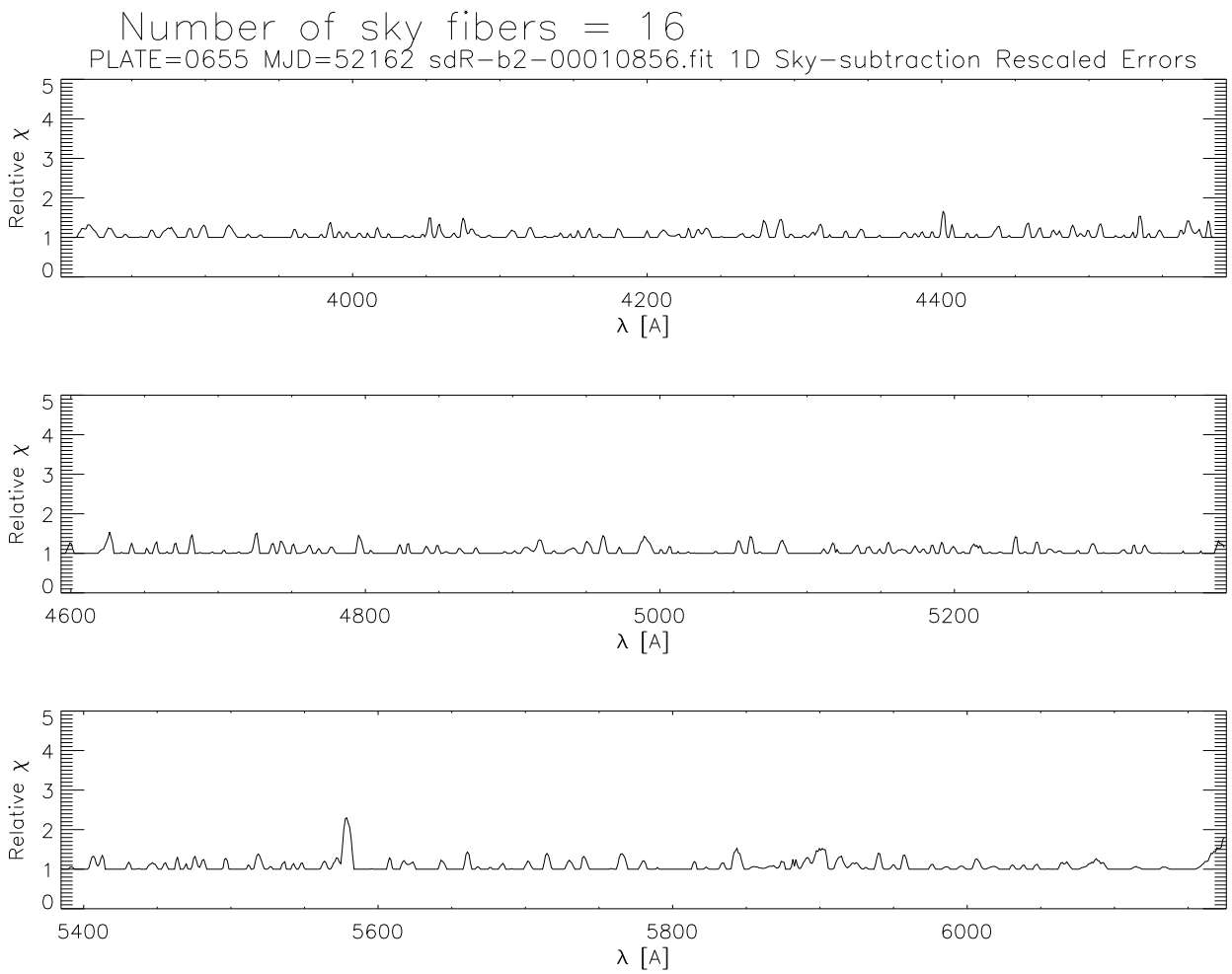

−0.05
−0.10
−0.15
−0.20
−0.25
−0.30
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

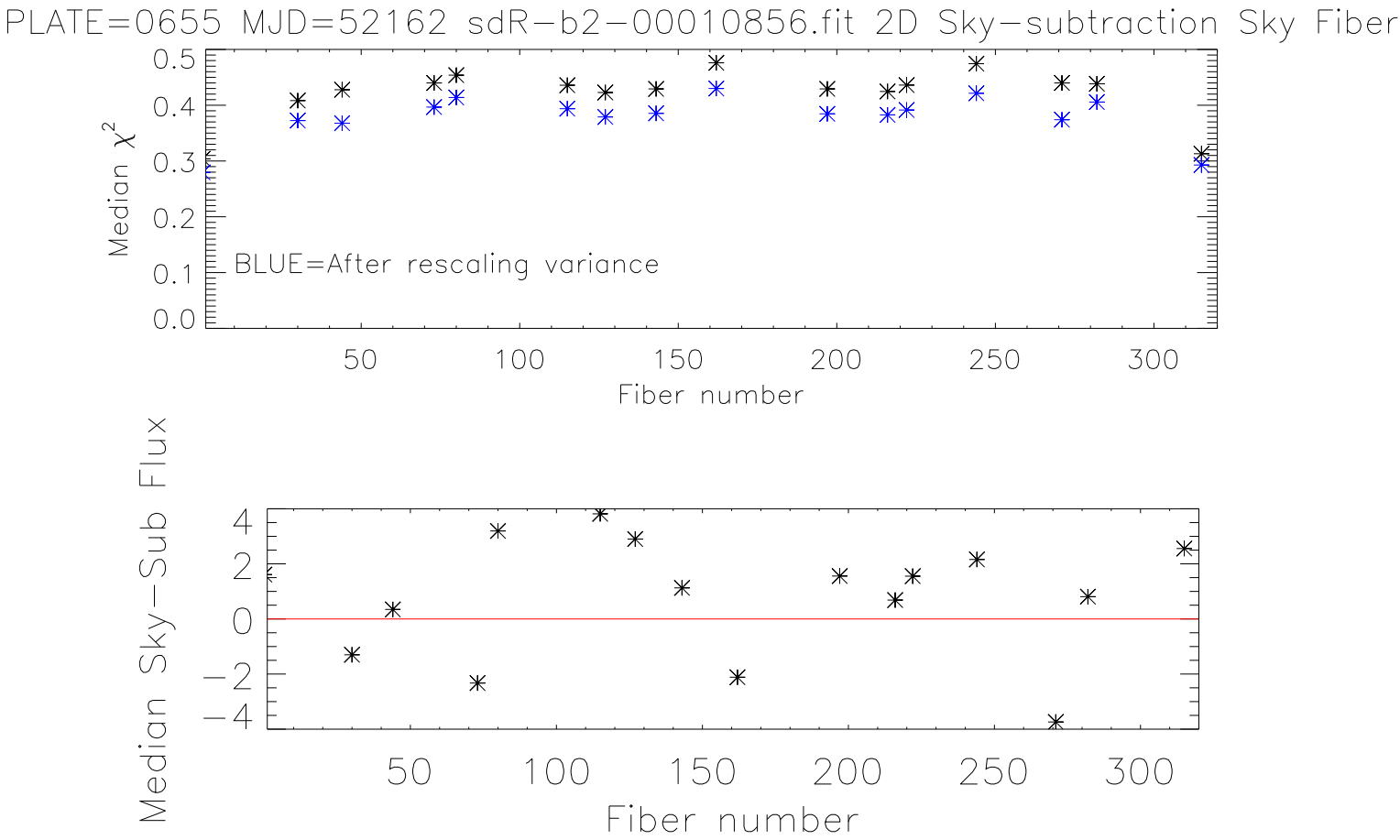

PLATE=0655 MJD=52162 Smooth superflat for sdR-b2-00010856.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

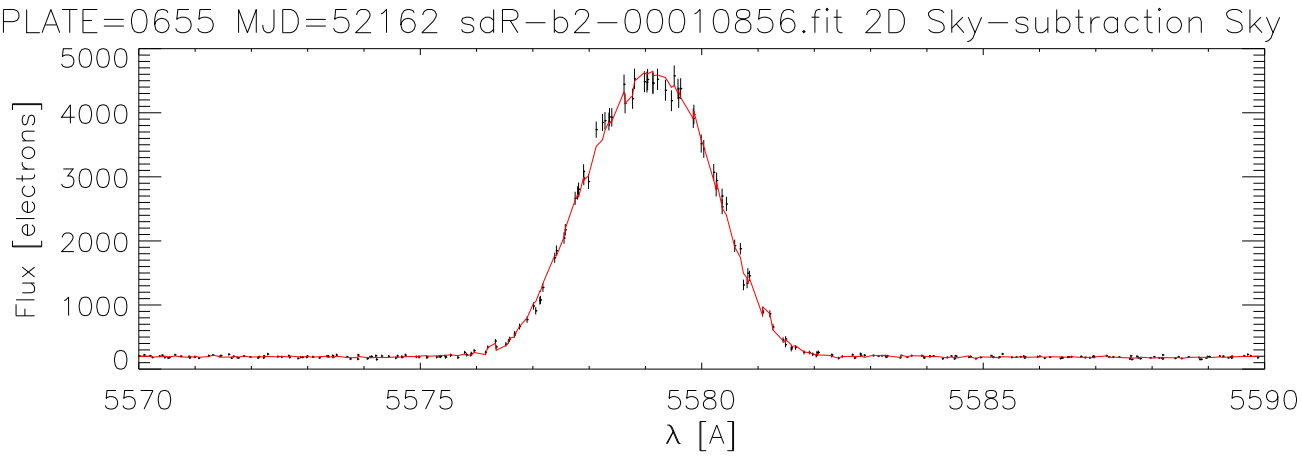

PLATE=0655 MJD=52162 sdR-b2-00010856.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

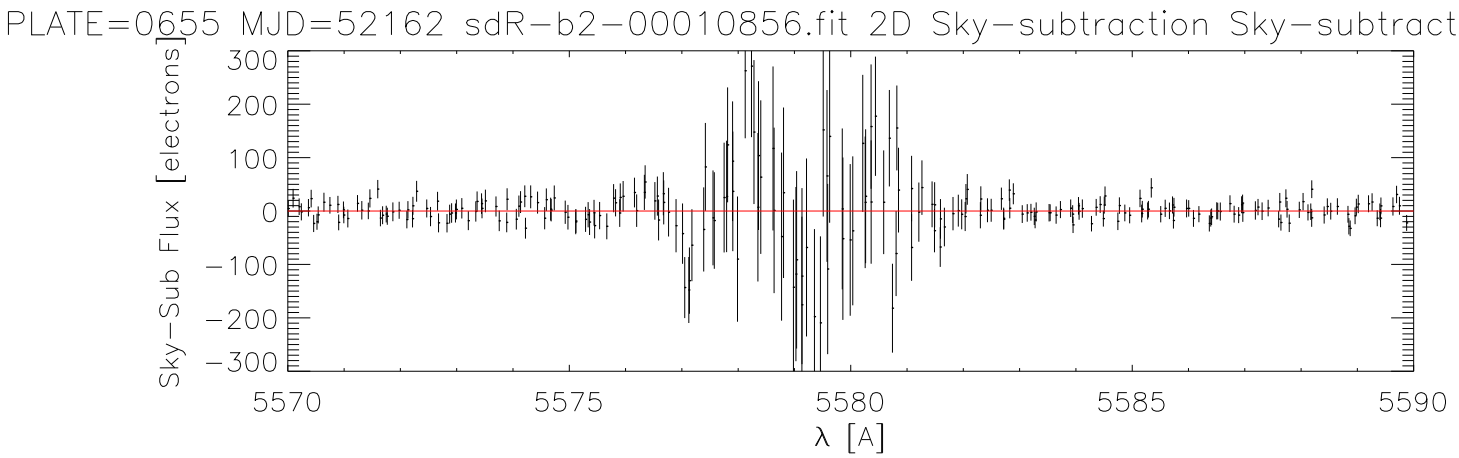

PLATE=0655 MJD=52162 sdR-b2-00010856.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

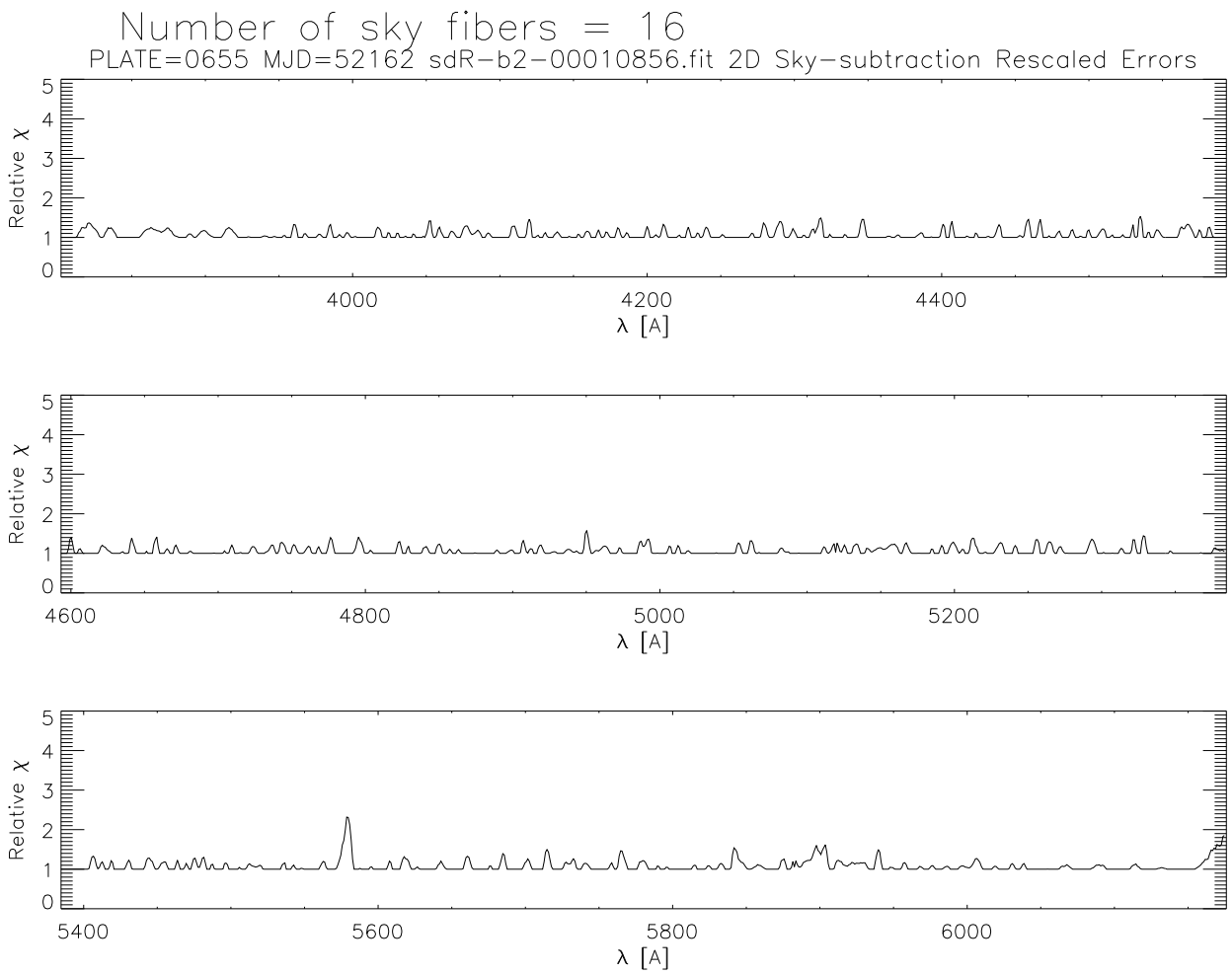

PLATE=0655 MJD=52162 sdR-b2-00010856.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

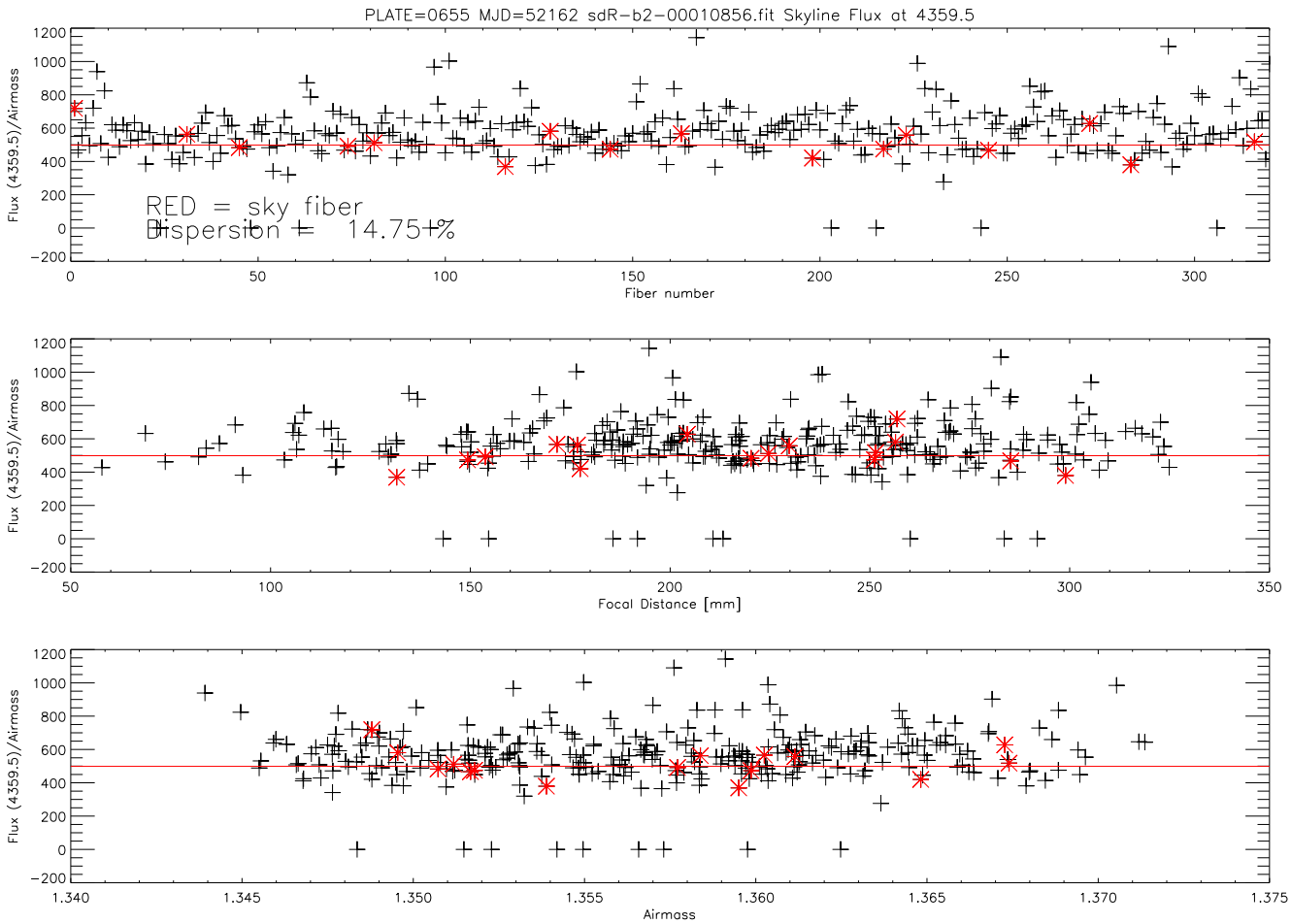

Number of sky fibers = 16
PLATE=0655 MJD=52162 sdR-b2-00010856.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

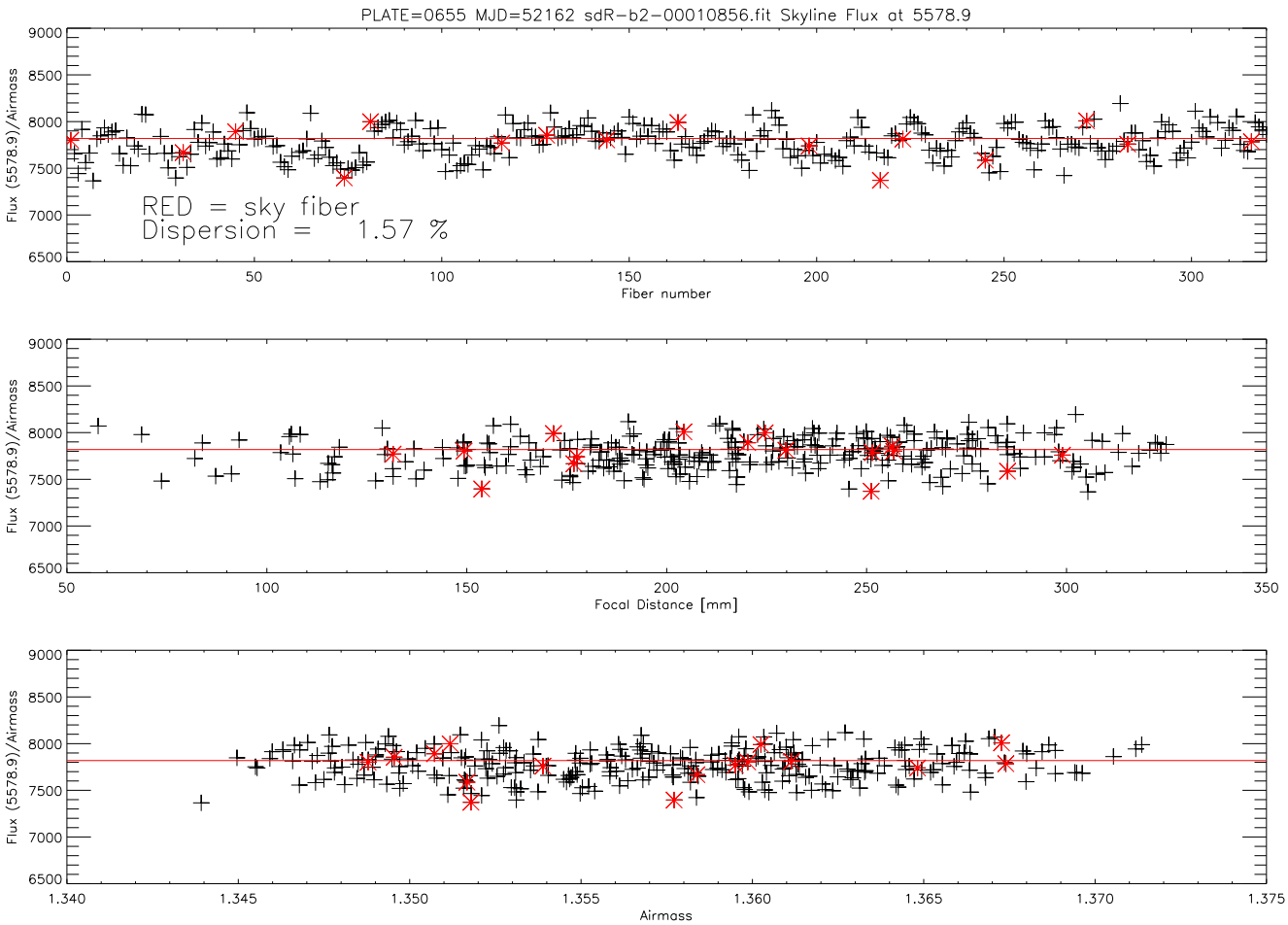

PLATE=0655 MJD=52162 sdR-b2-00010856.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

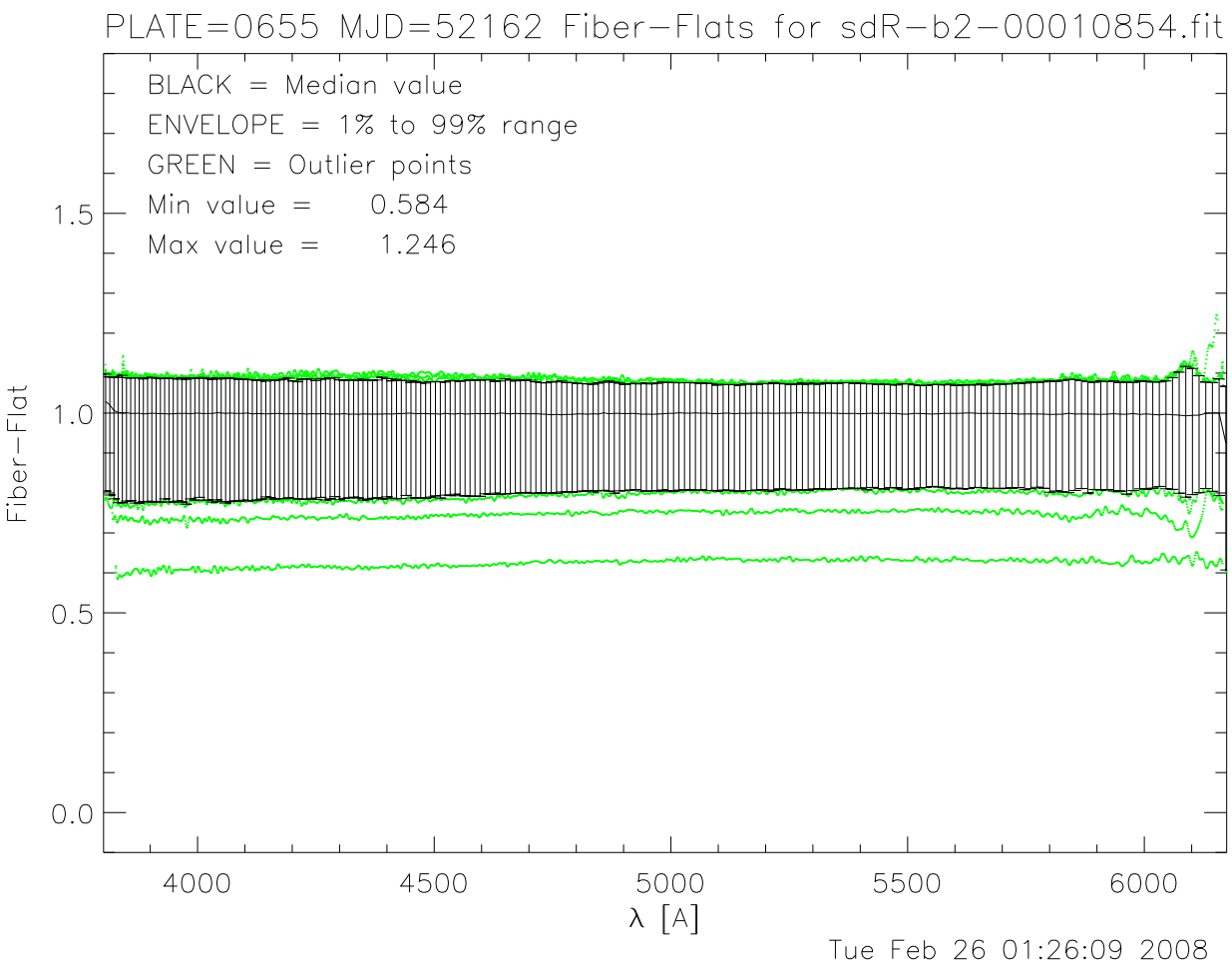

PLATE=0655 MJD=52162 sdR-b2-00010856.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

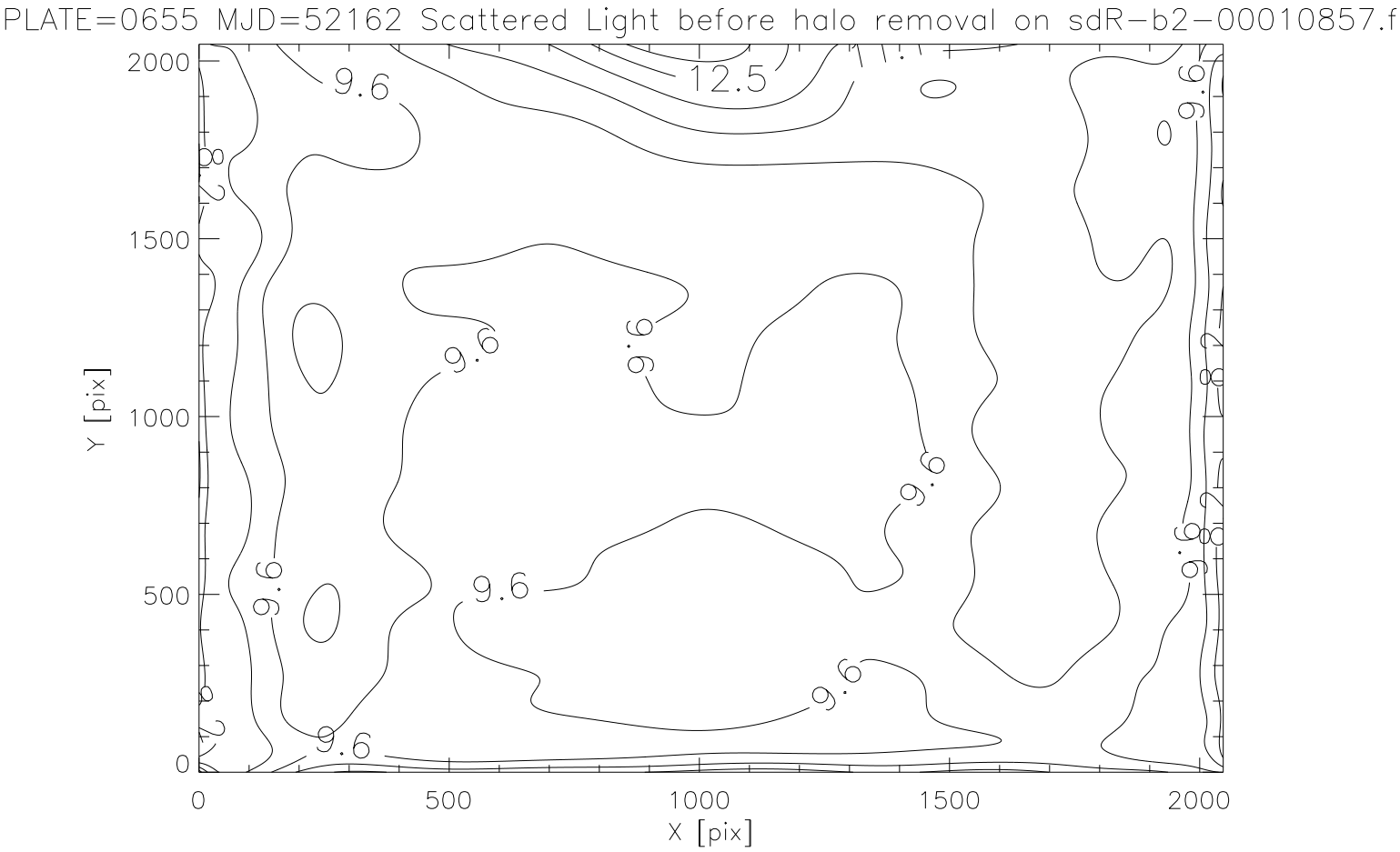

PLATE=0655 MJD=52162 sdR-b2-00010856.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

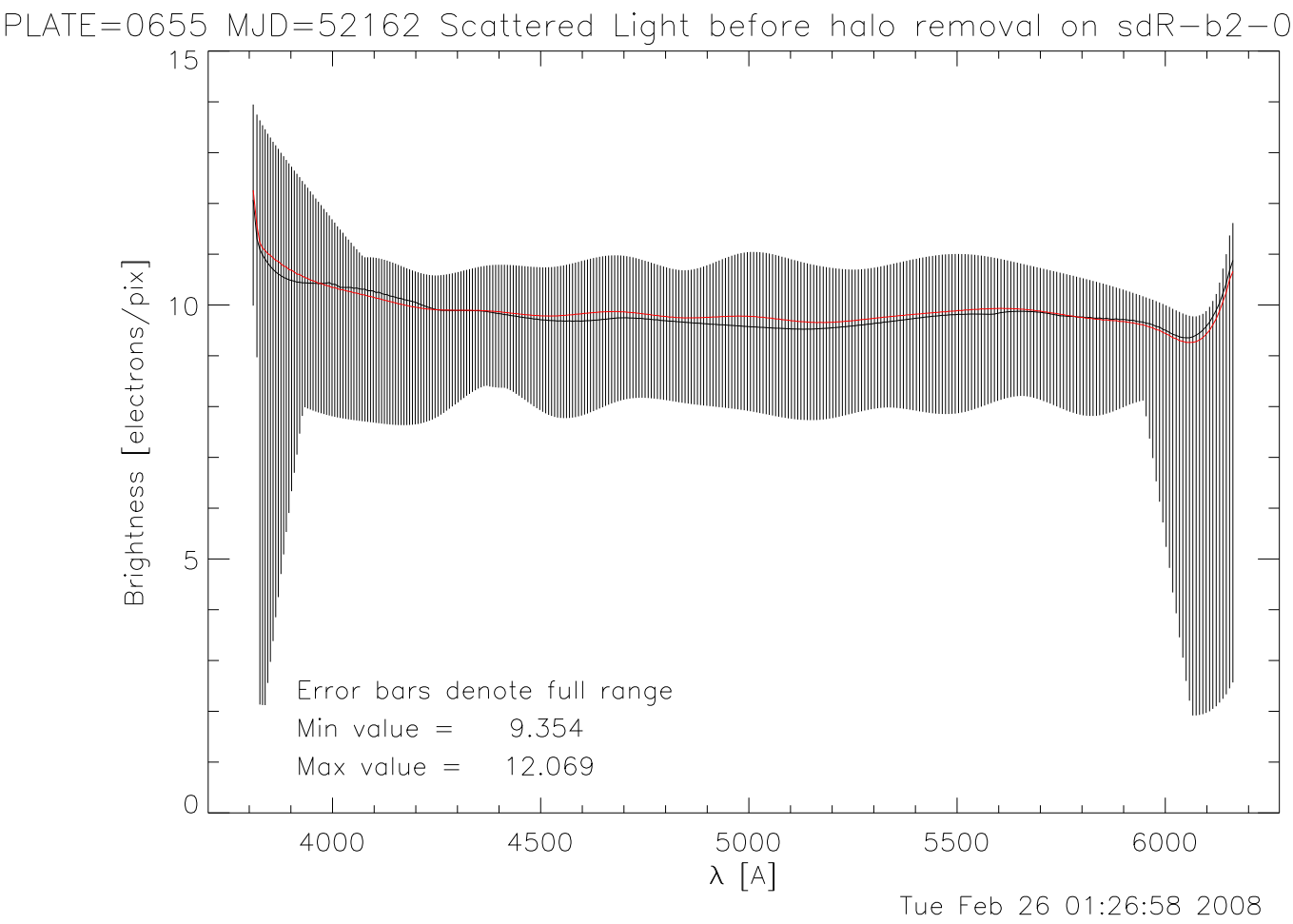

Number of sky fibers = 16
PLATE=0655 MJD=52162 sdR-b2-00010856.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

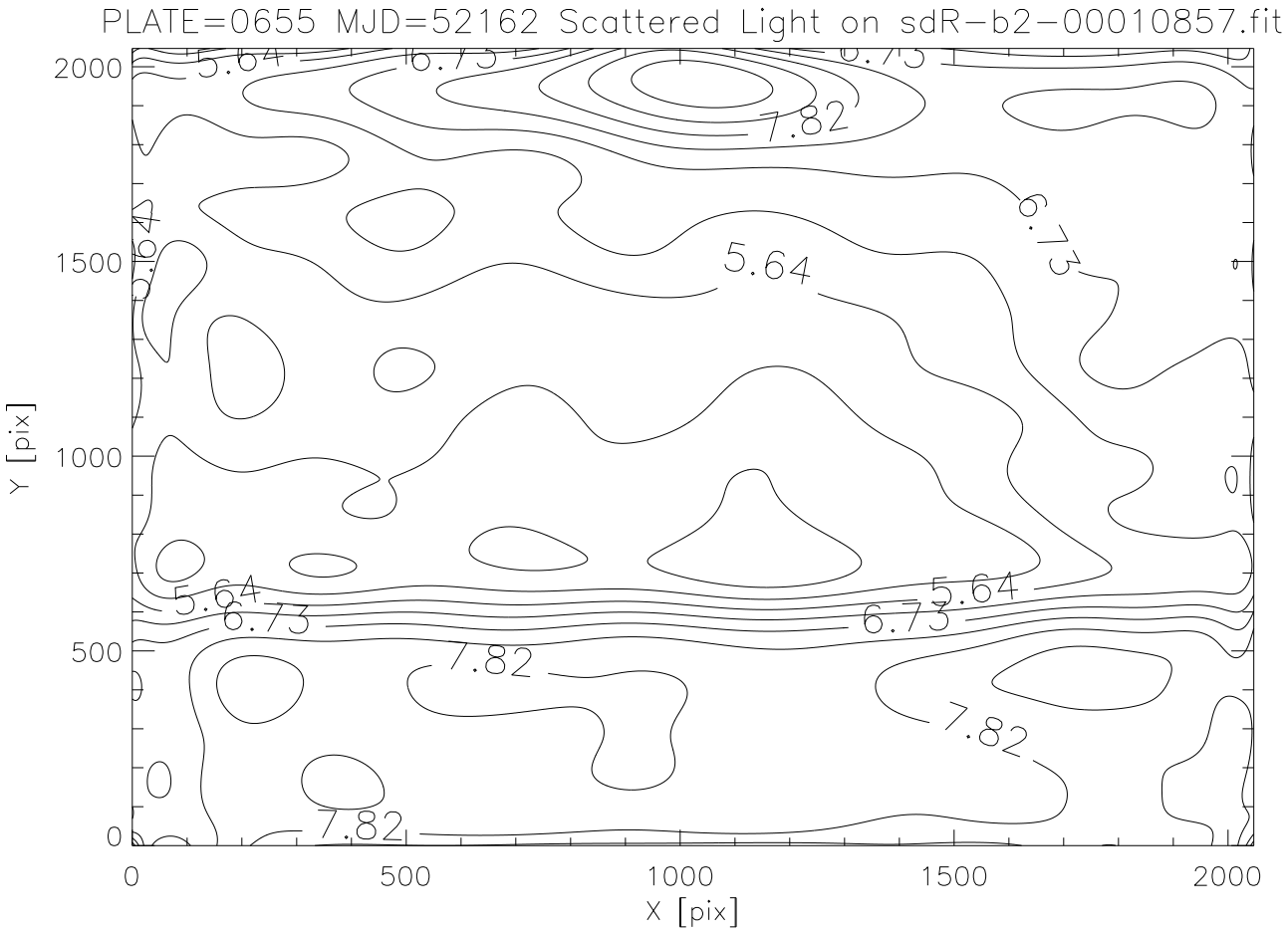

PLATE=0655 MJD=52162 sdR-b2-00010856.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 14.75+%
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

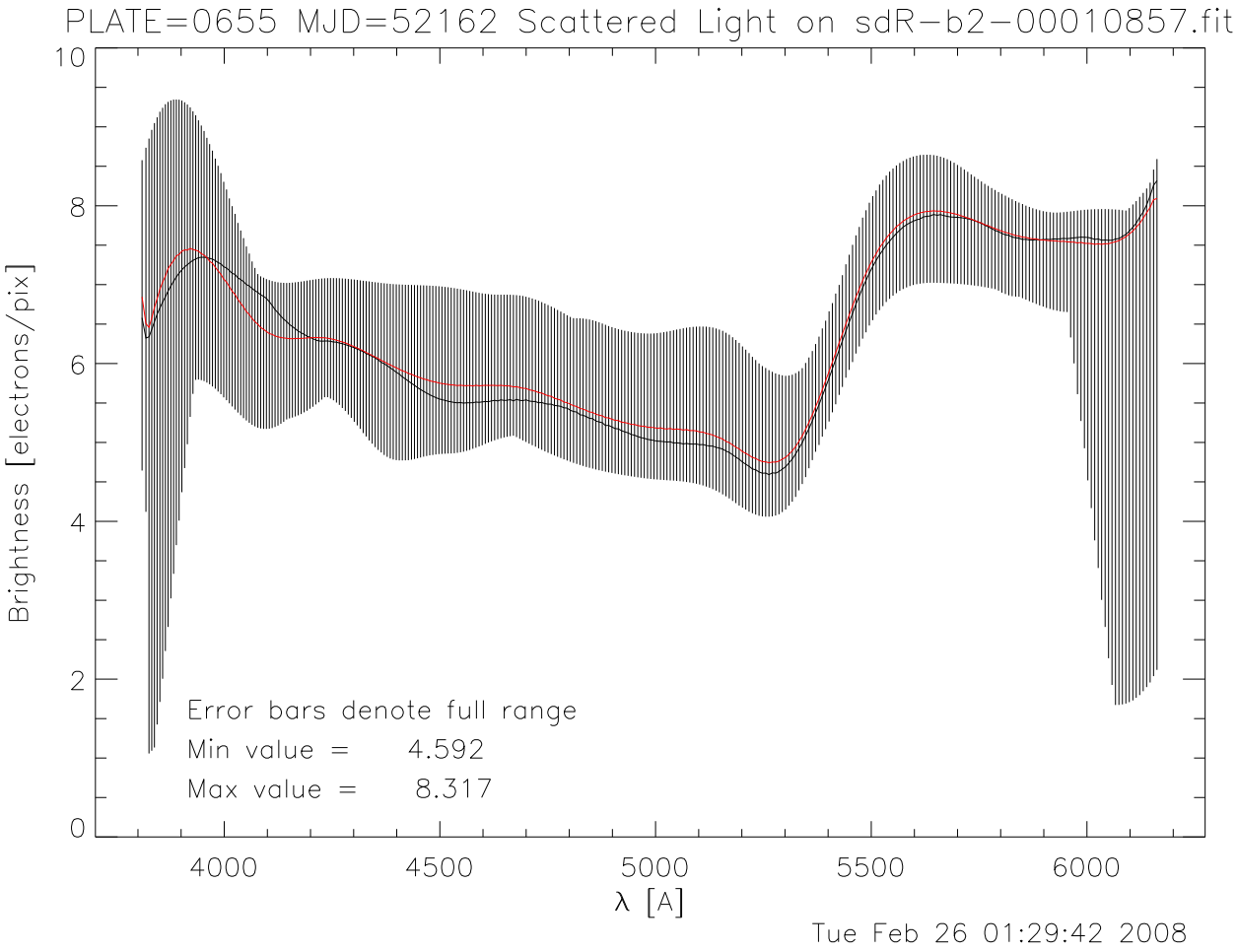

PLATE=0655 MJD=52162 sdR-b2-00010856.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.57 %
Fiber number
Focal Distance [mm]
Airmass

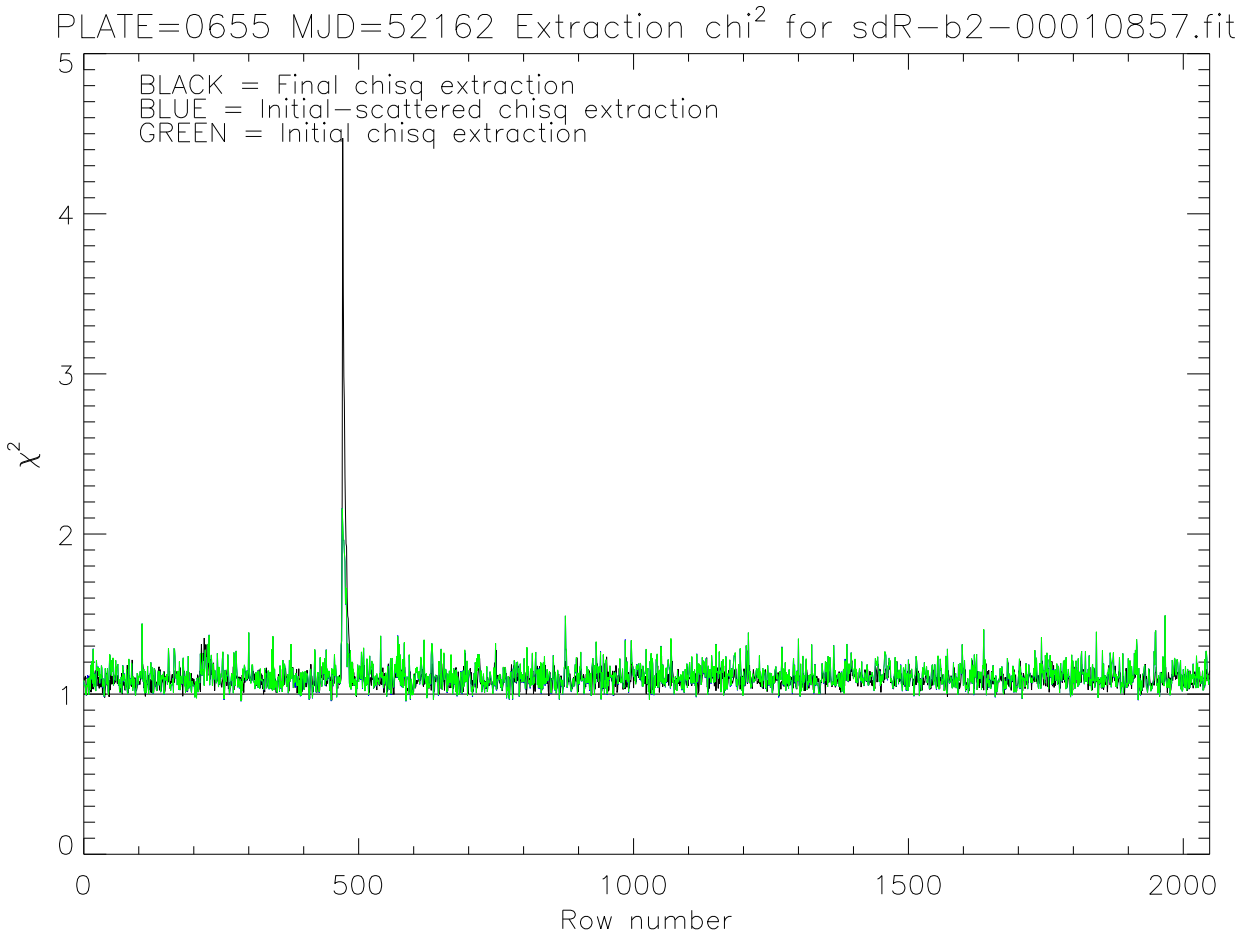

PLATE=0655 MJD=52162 Fiber−Flats for sdR−b2−00010854.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.584
Max value = 1.246
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 01:26:09 2008

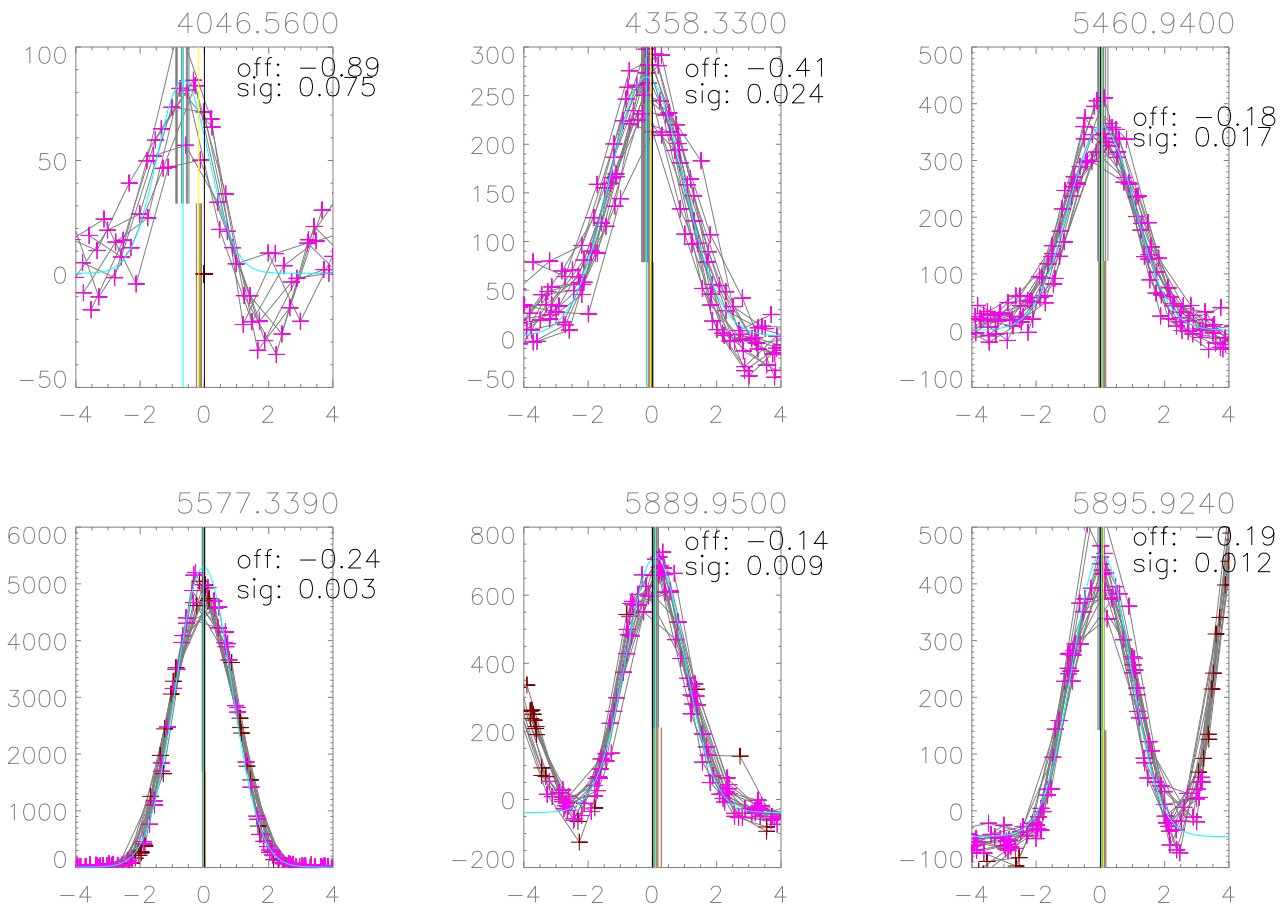

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR−b2−00010857.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
9.6
12.5
0

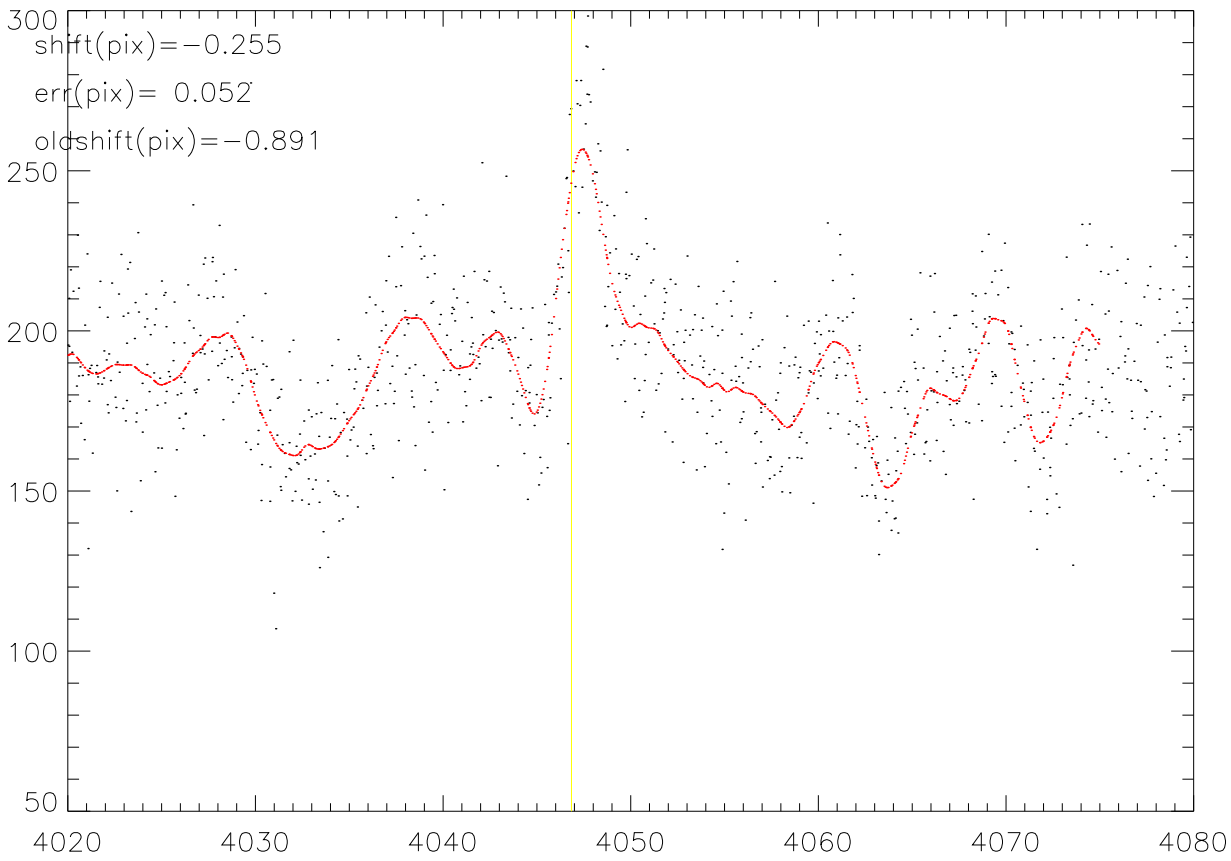

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-b2-00010857.f
Brightness [electrons/pix]
15
10
5
0
Error bars denote full range
Min value = 9.354
Max value = 12.069
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 01:26:58 2008

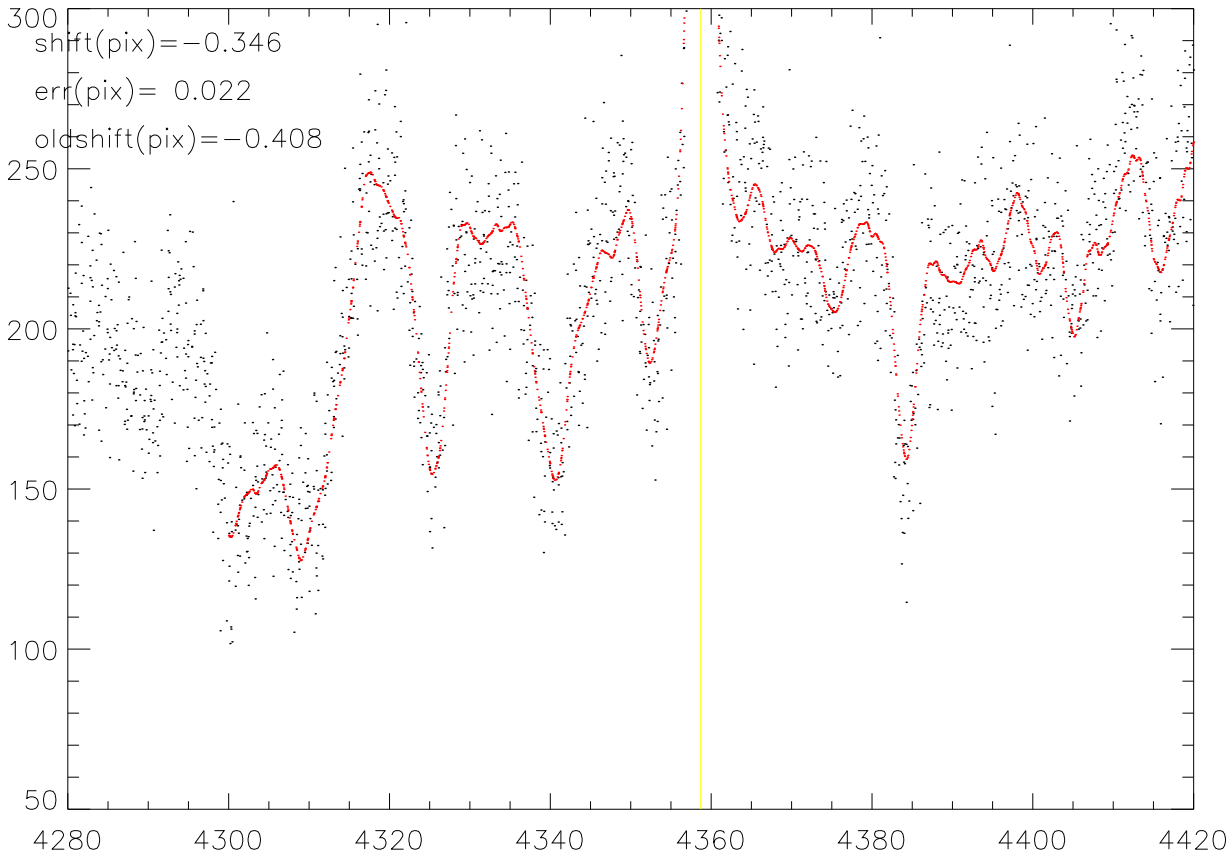

PLATE=0655 MJD=52162 Scattered Light on sdR-b2-00010857.fit
5.64
6.73
7.82
0
Y [pix]
X [pix]
0
500
1000
1500
2000

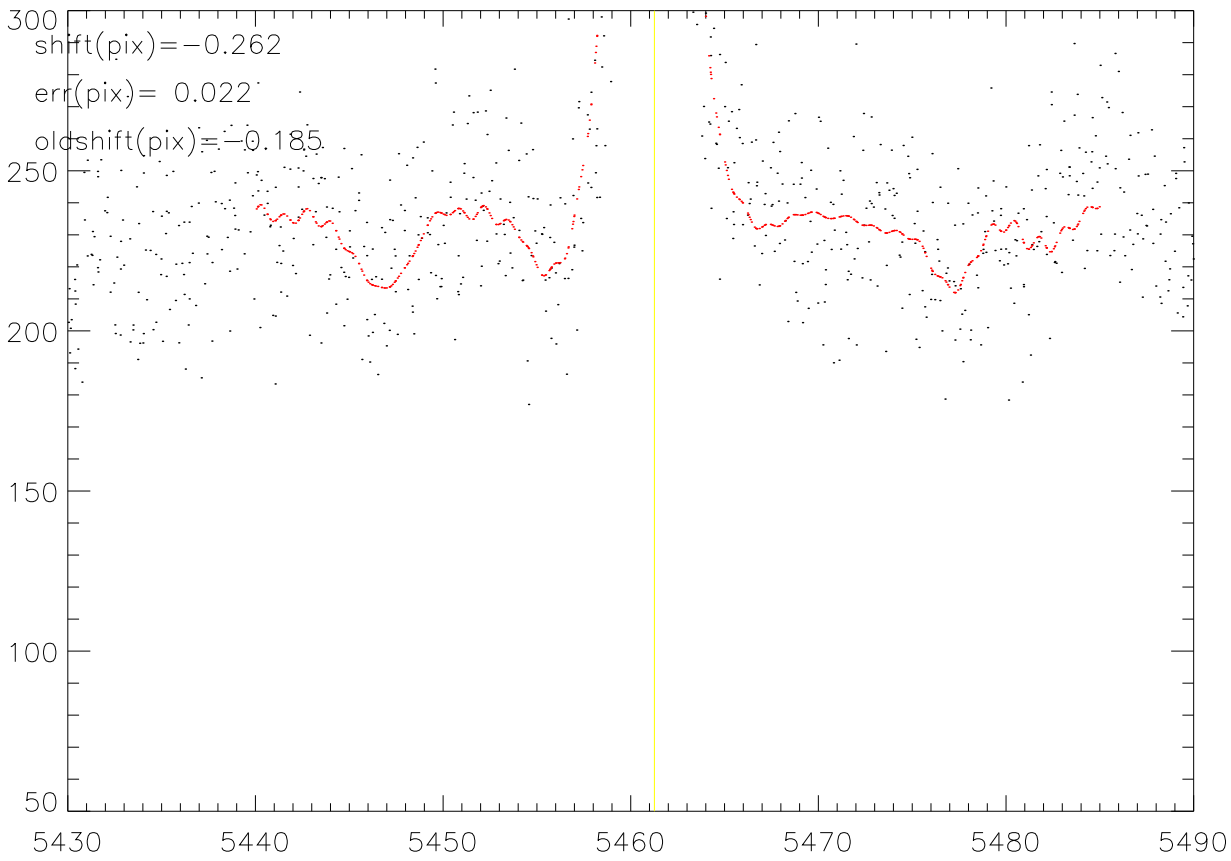

PLATE=0655 MJD=52162 Scattered Light on sdR-b2-00010857.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.592
Max value = 8.317
Tue Feb 26 01:29:42 2008

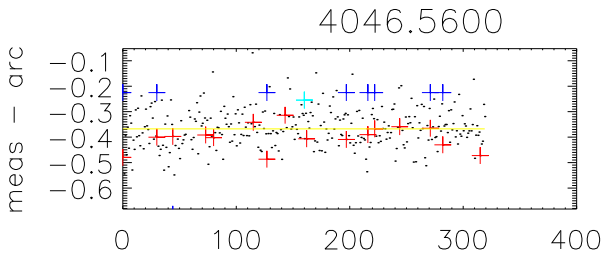

PLATE=0655 MJD=52162 Extraction chi^2 for sdR-b2-00010857.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

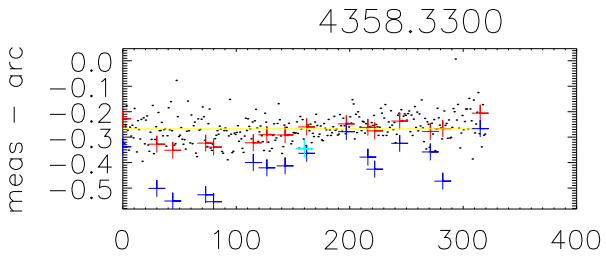

4046.5600
off: −0.89
sig: 0.075
4358.3300
off: −0.41
sig: 0.024
5460.9400
off: −0.18
sig: 0.017
5577.3390
off: −0.24
sig: 0.003
5889.9500
off: −0.14
sig: 0.009
5895.9240
off: −0.19
sig: 0.012

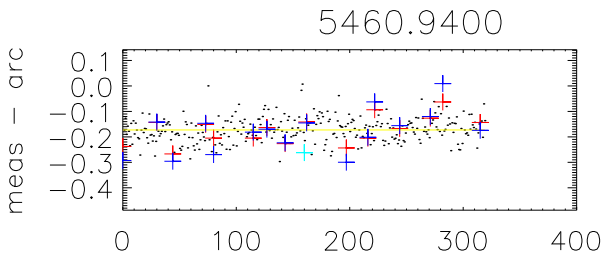

shift(pix)=−0.255
err(pix)= 0.052
oldshift(pix)=−0.891
300
250
200
150
100
50
4020
4030
4040
4050
4060
4070
4080

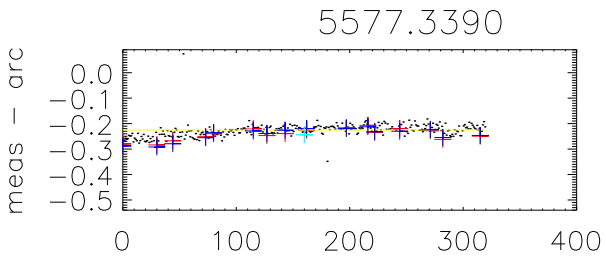

shift(pix)=−0.346
err(pix)= 0.022
oldshift(pix)=−0.408
300
250
200
150
100
50
4280
4300
4320
4340
4360
4380
4400
4420

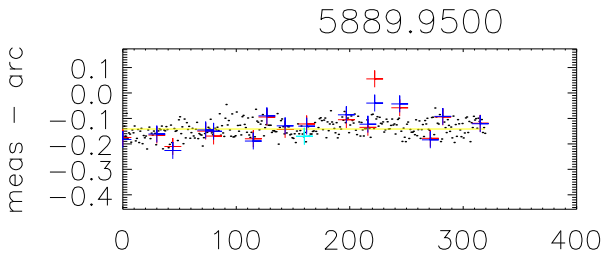

shift(pix)=−0.262
err(pix)= 0.022
oldshift(pix)=−0.185
300
250
200
150
100
50
5430
5440
5450
5460
5470
5480
5490

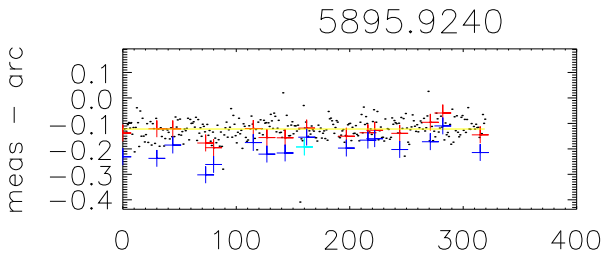

4046.5600
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

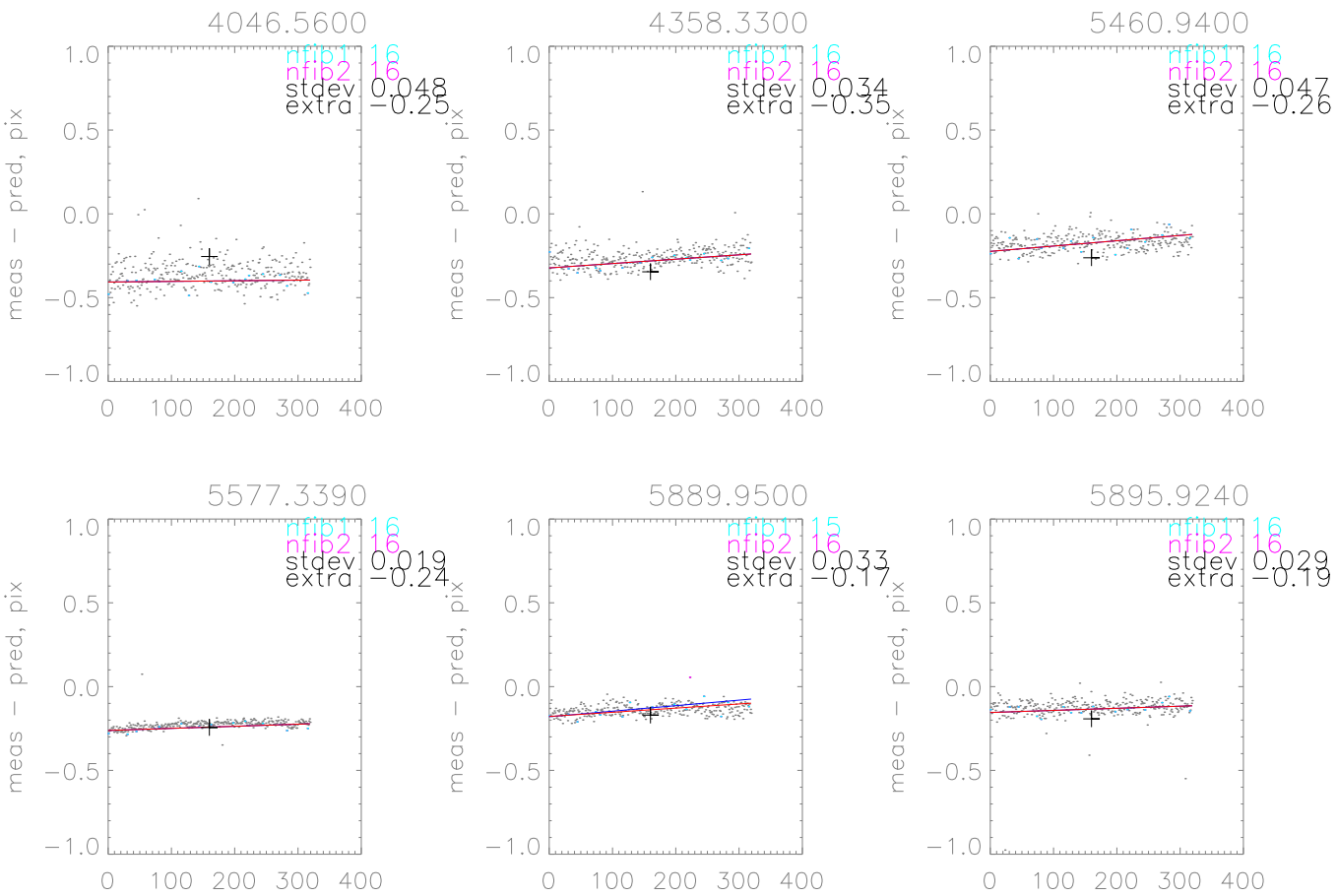

4358.3300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

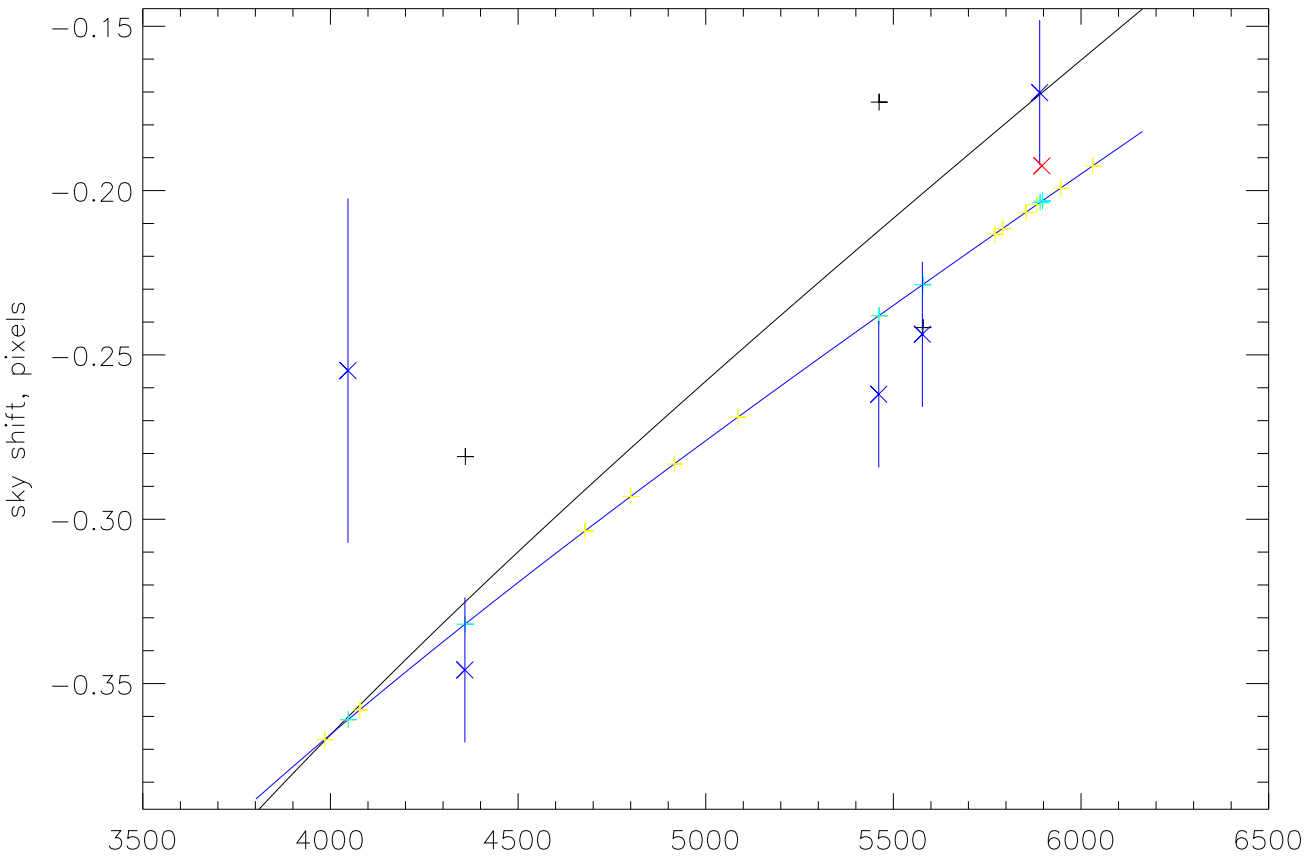

5460.9400
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

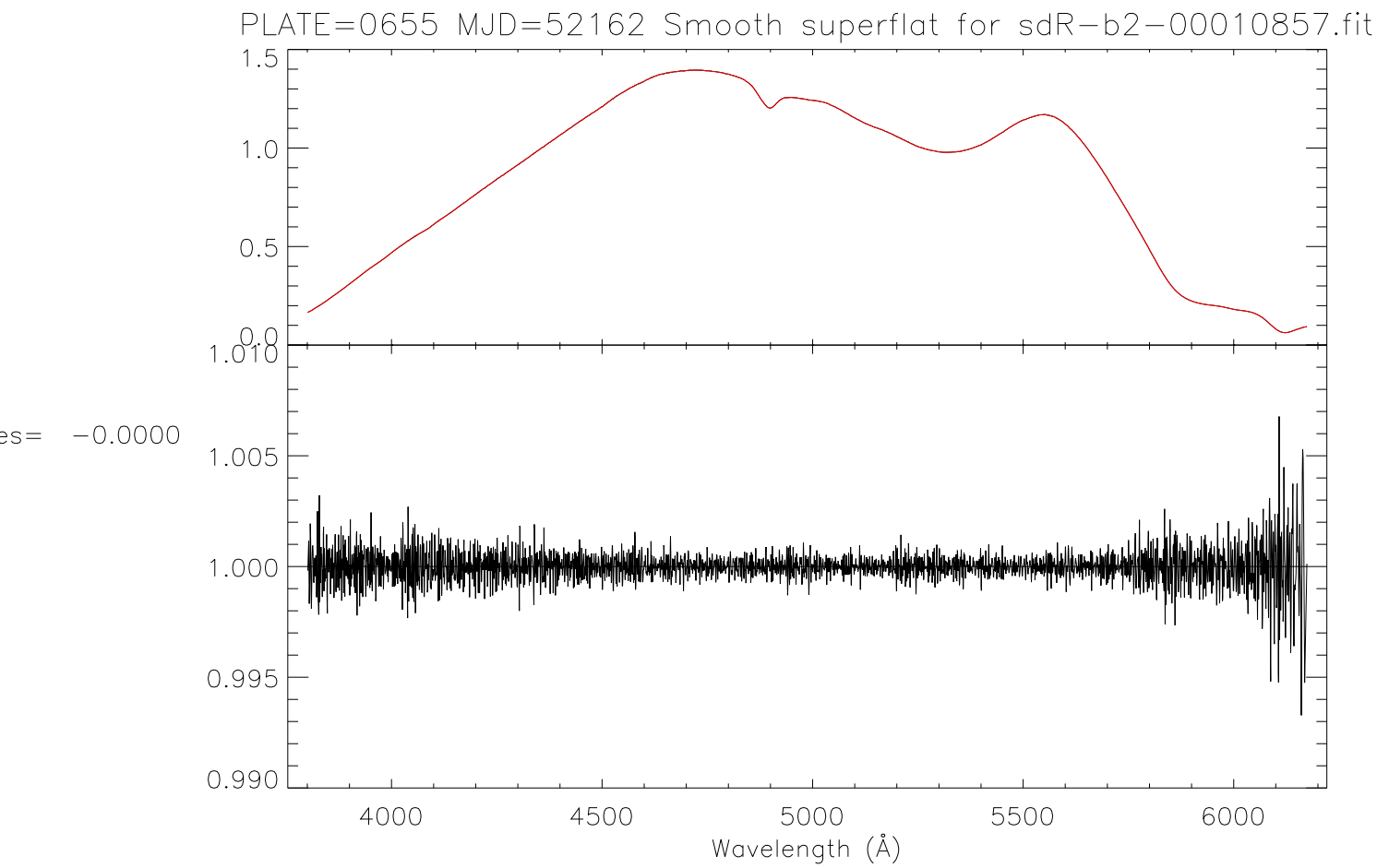

5577.3390
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

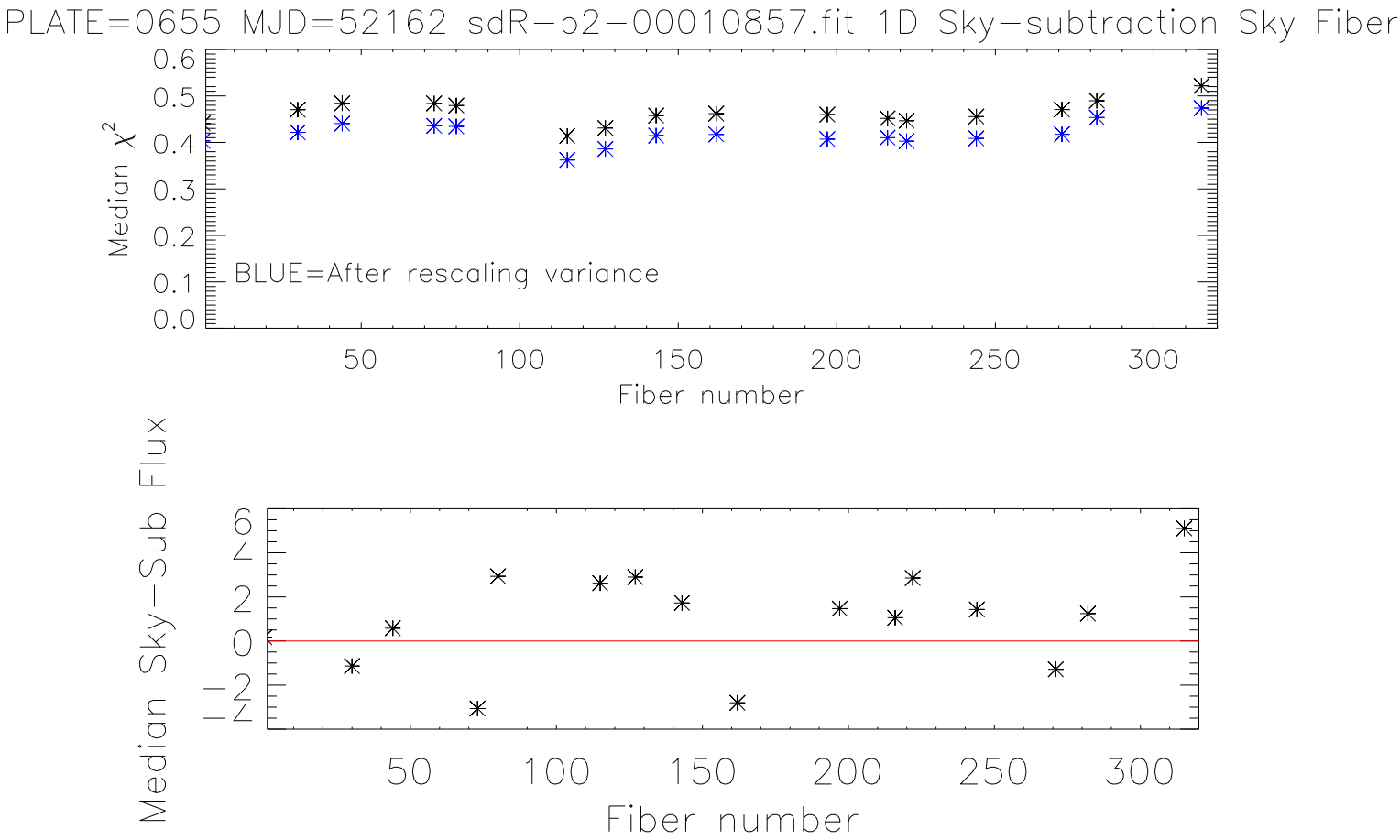

5889.9500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

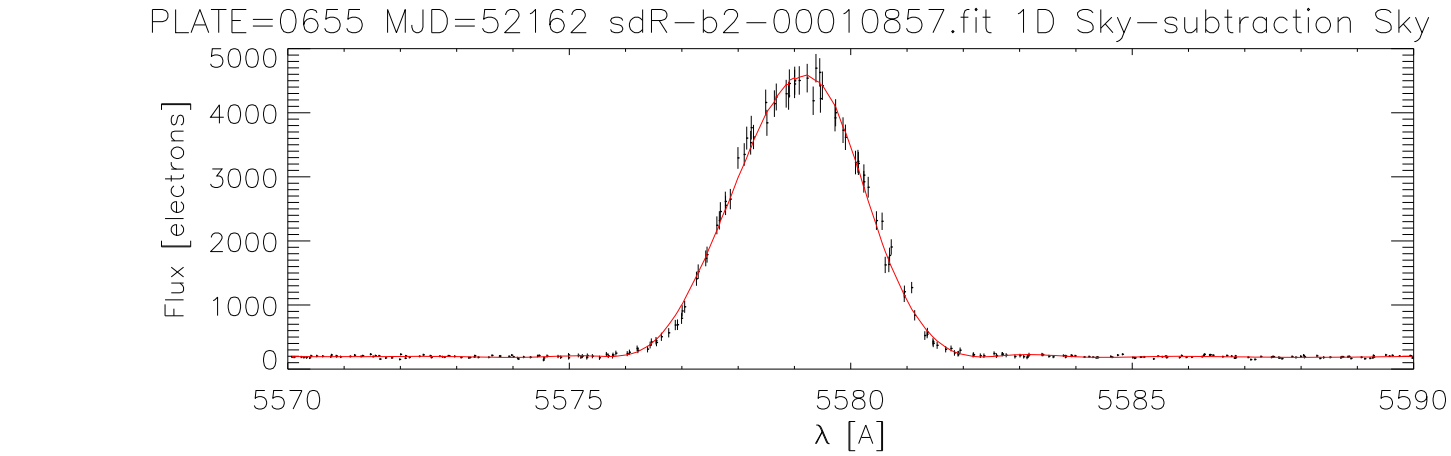

5895.9240
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

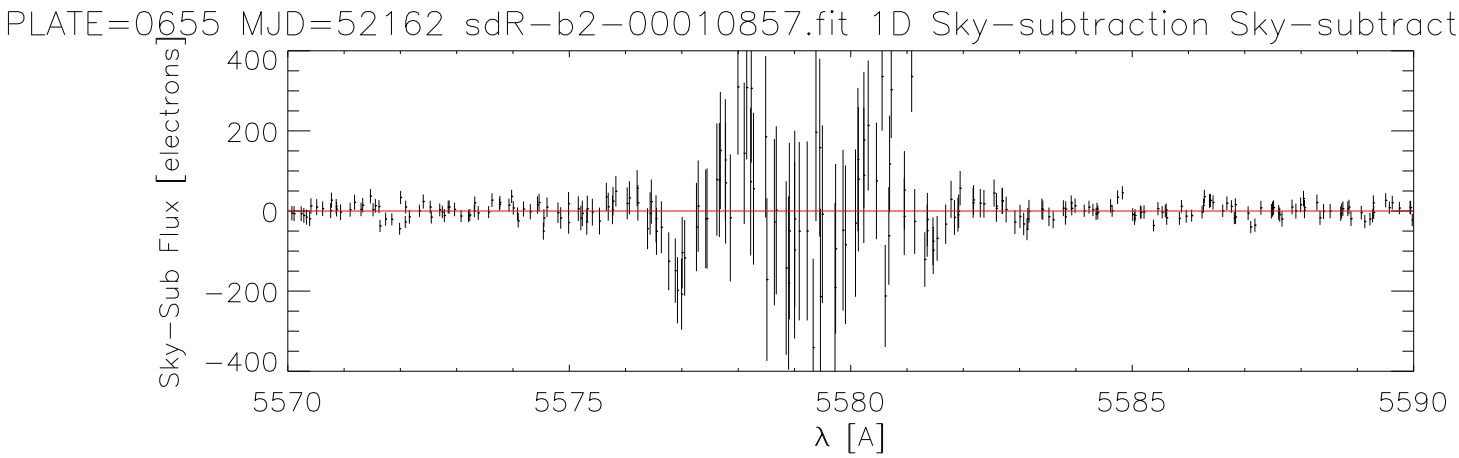

4046.5600
nfib1 16
nfib2 16
stdev 0.048
extra −0.25
4358.3300
nfib1 16
nfib2 16
stdev 0.034
extra −0.35
5460.9400
nfib1 16
nfib2 16
stdev 0.047
extra −0.26
5577.3390
nfib1 16
nfib2 16
stdev 0.019
extra −0.24
5889.9500
nfib1 15
nfib2 16
stdev 0.033
extra −0.17
5895.9240
nfib1 16
nfib2 16
stdev 0.029
extra −0.19
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

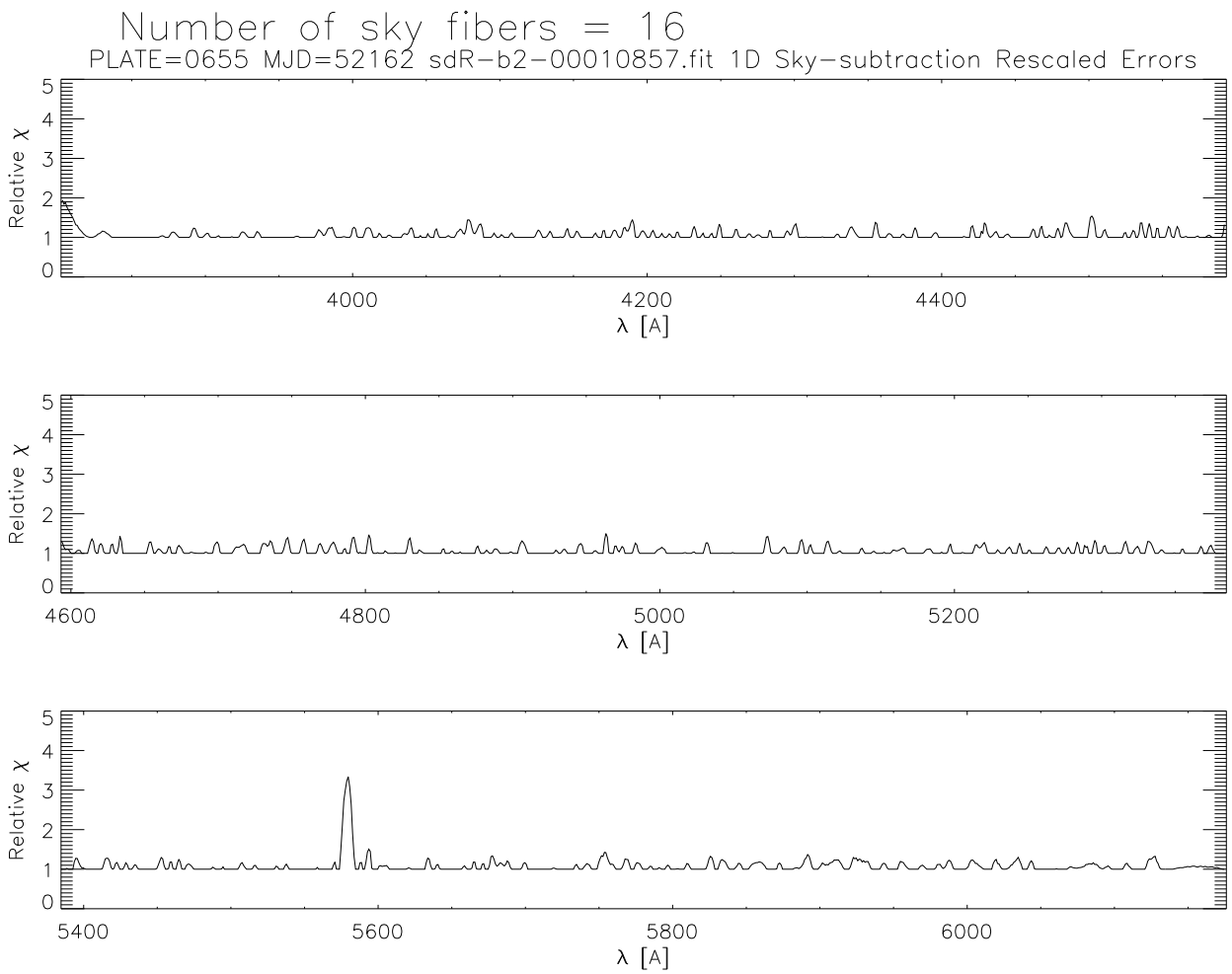

−0.15
−0.20
−0.25
−0.30
−0.35
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

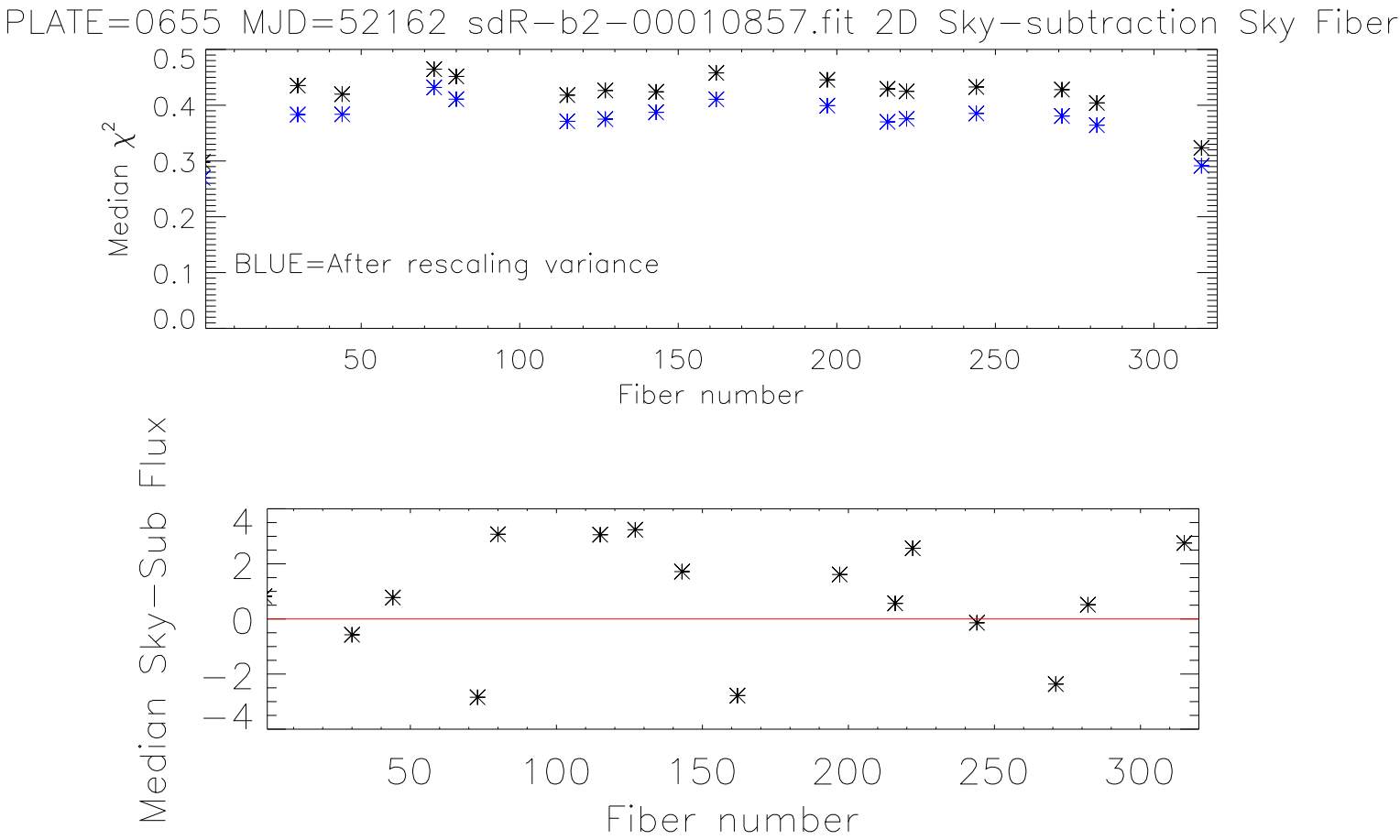

PLATE=0655 MJD=52162 Smooth superflat for sdR-b2-00010857.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

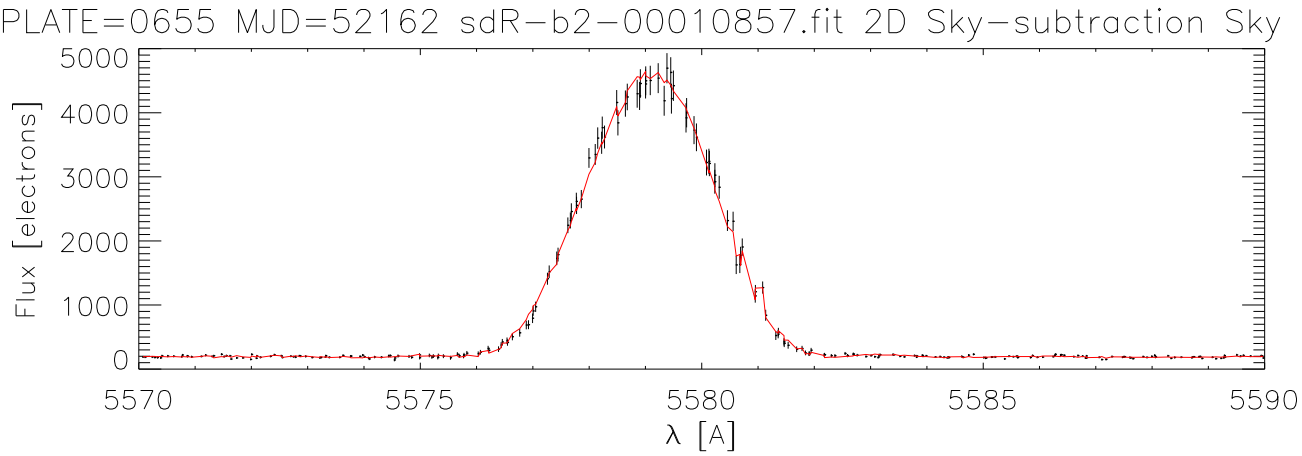

PLATE=0655 MJD=52162 sdR-b2-00010857.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

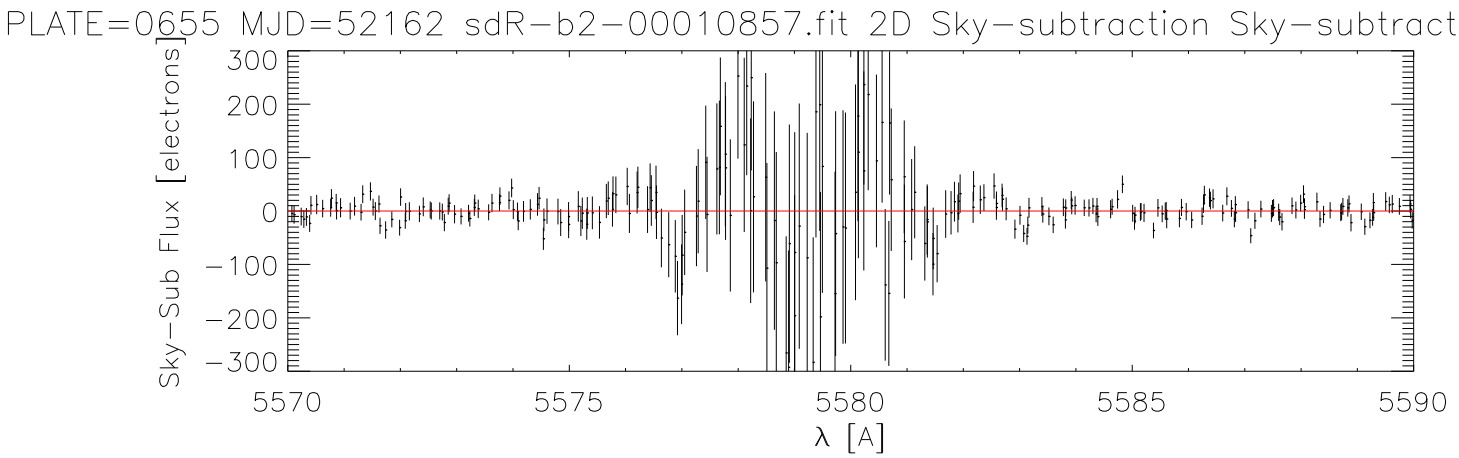

PLATE=0655 MJD=52162 sdR-b2-00010857.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

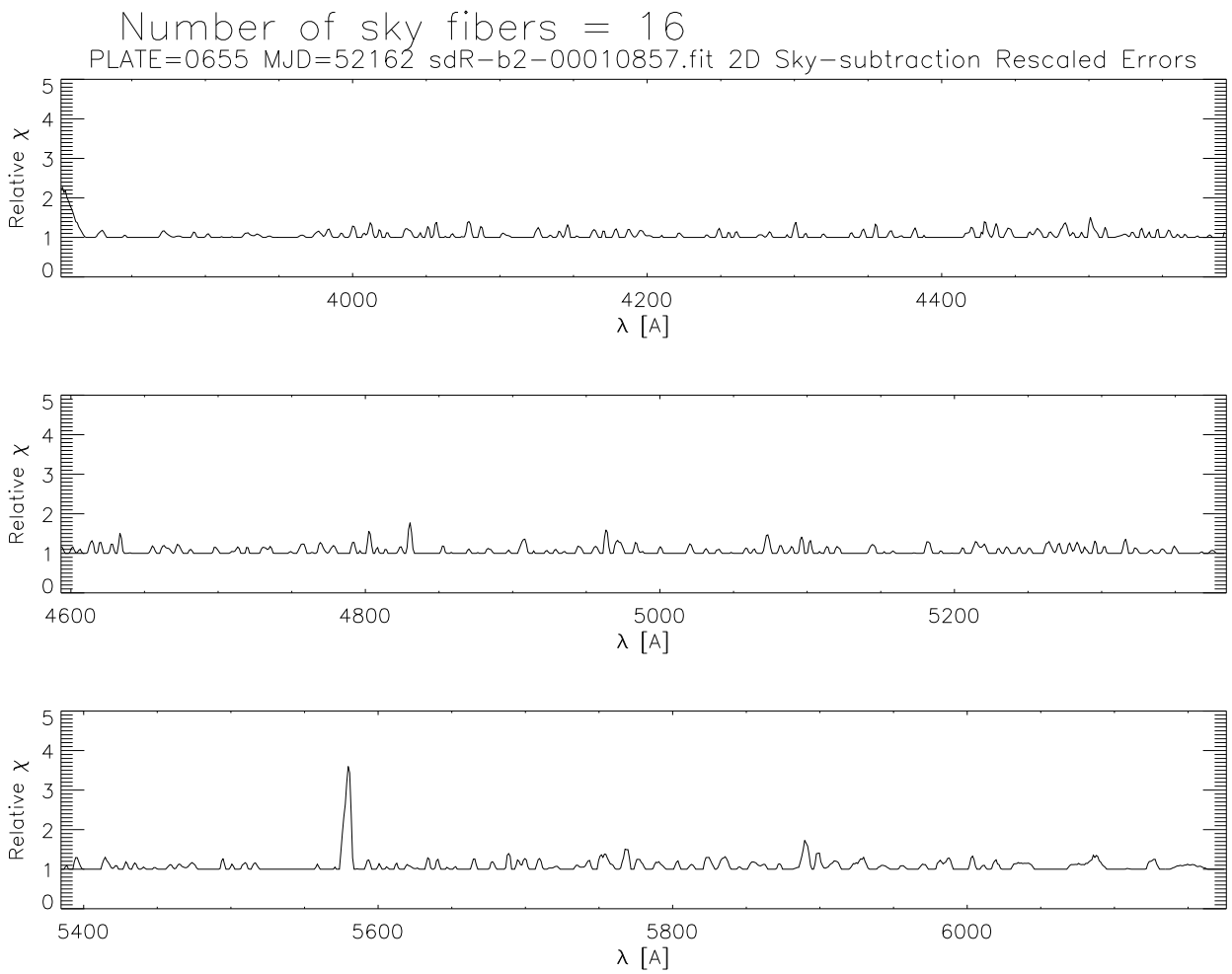

PLATE=0655 MJD=52162 sdR-b2-00010857.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

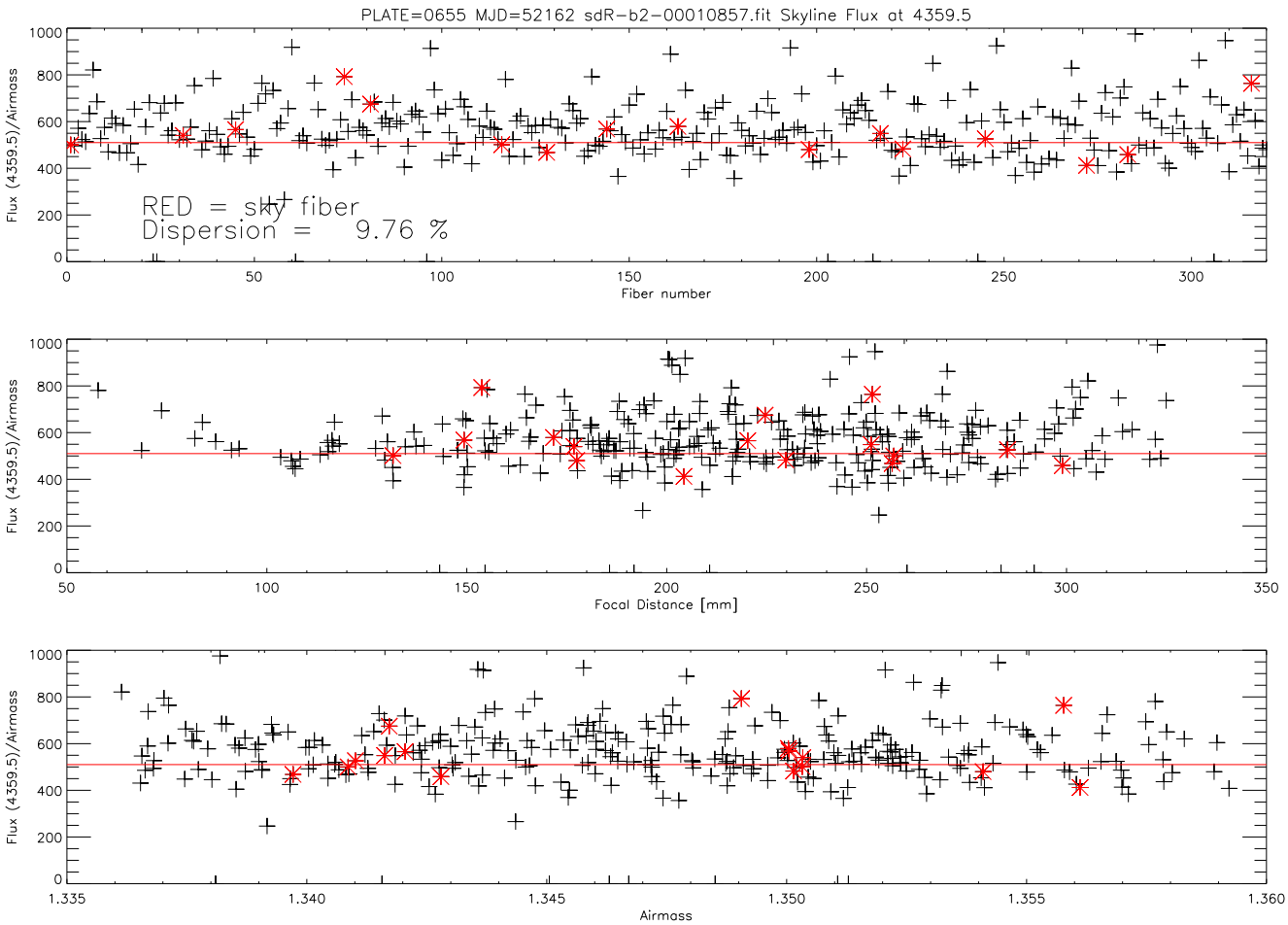

Number of sky fibers = 16
PLATE=0655 MJD=52162 sdR-b2-00010857.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

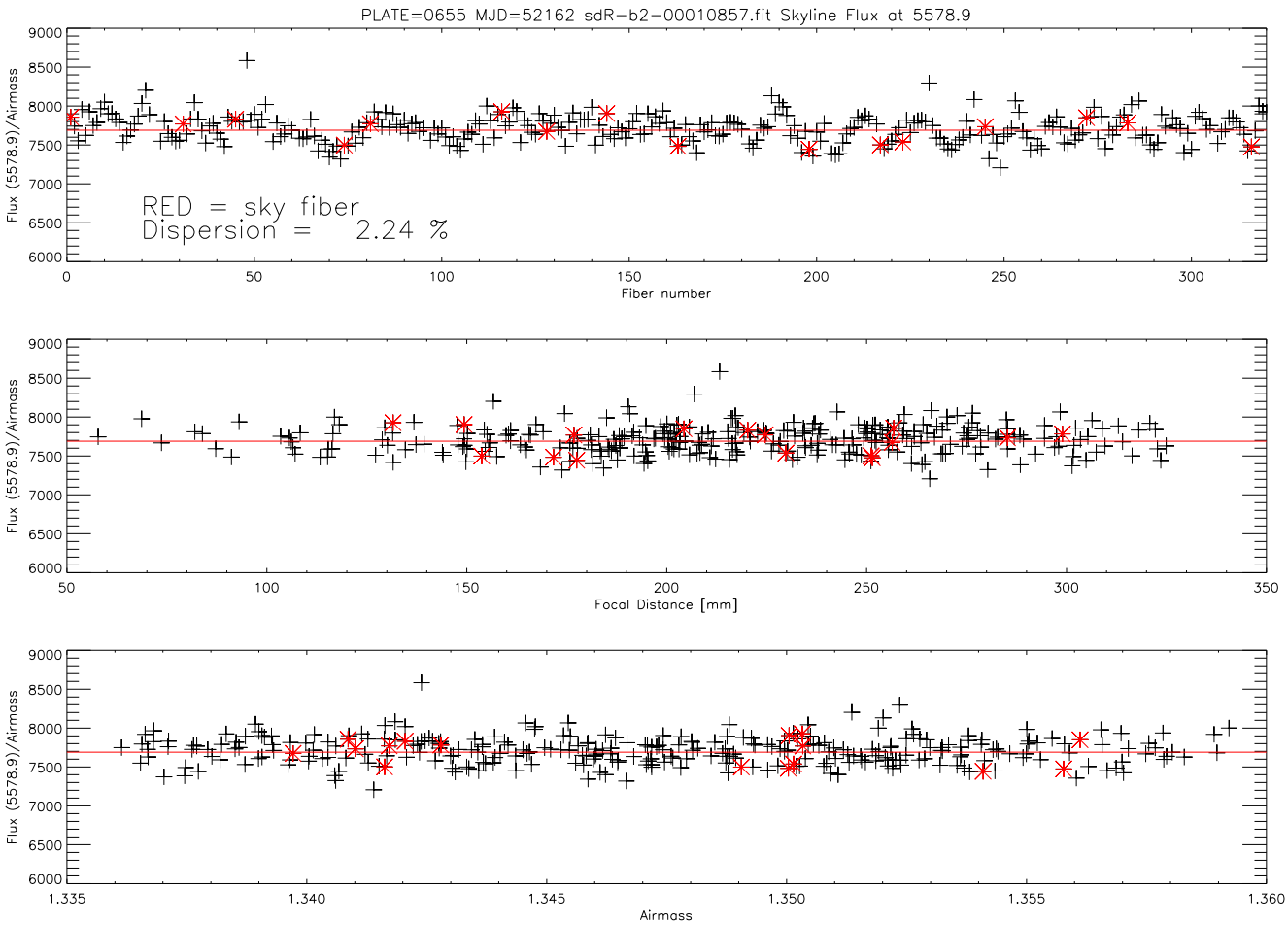

PLATE=0655 MJD=52162 sdR-b2-00010857.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

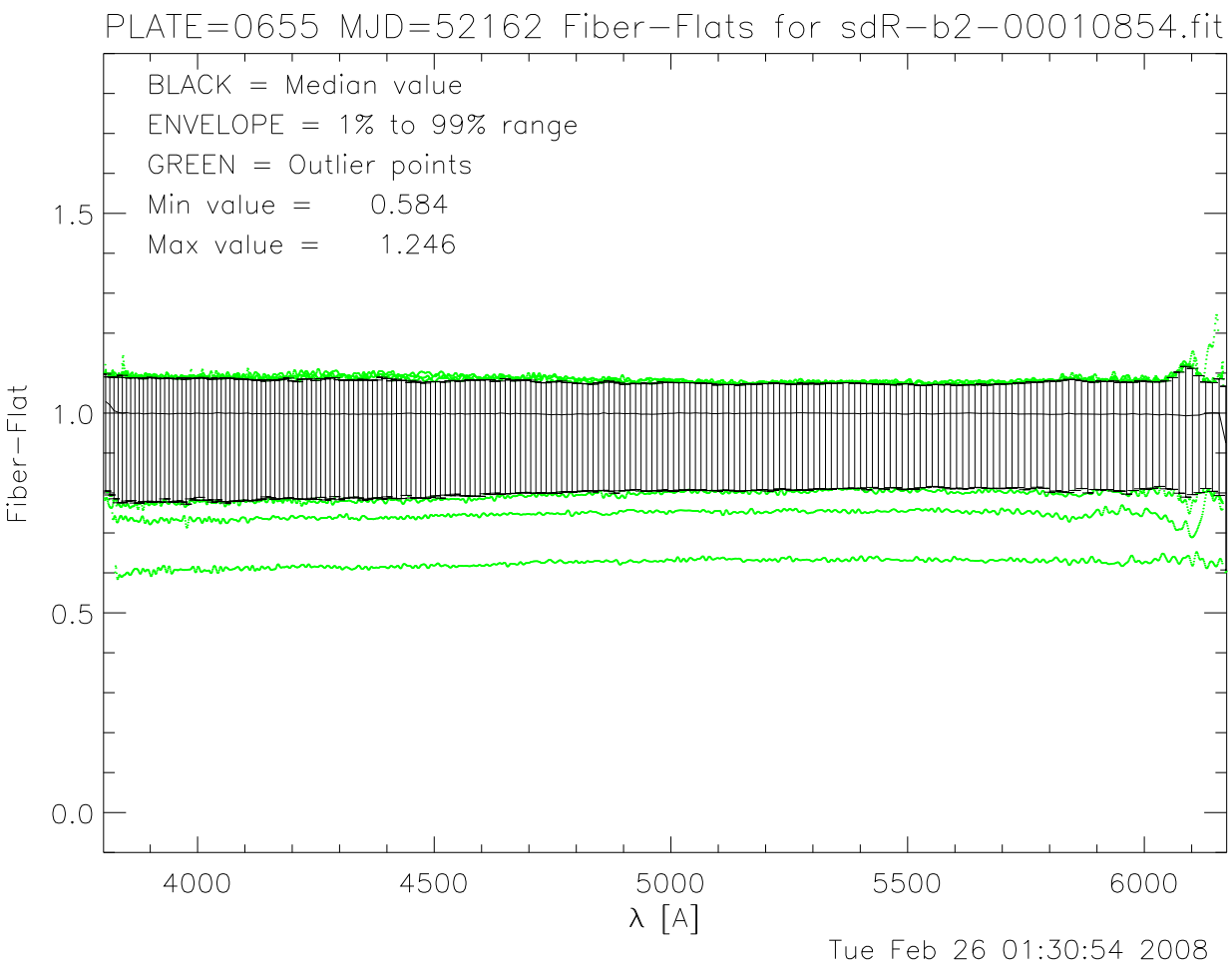

PLATE=0655 MJD=52162 sdR-b2-00010857.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

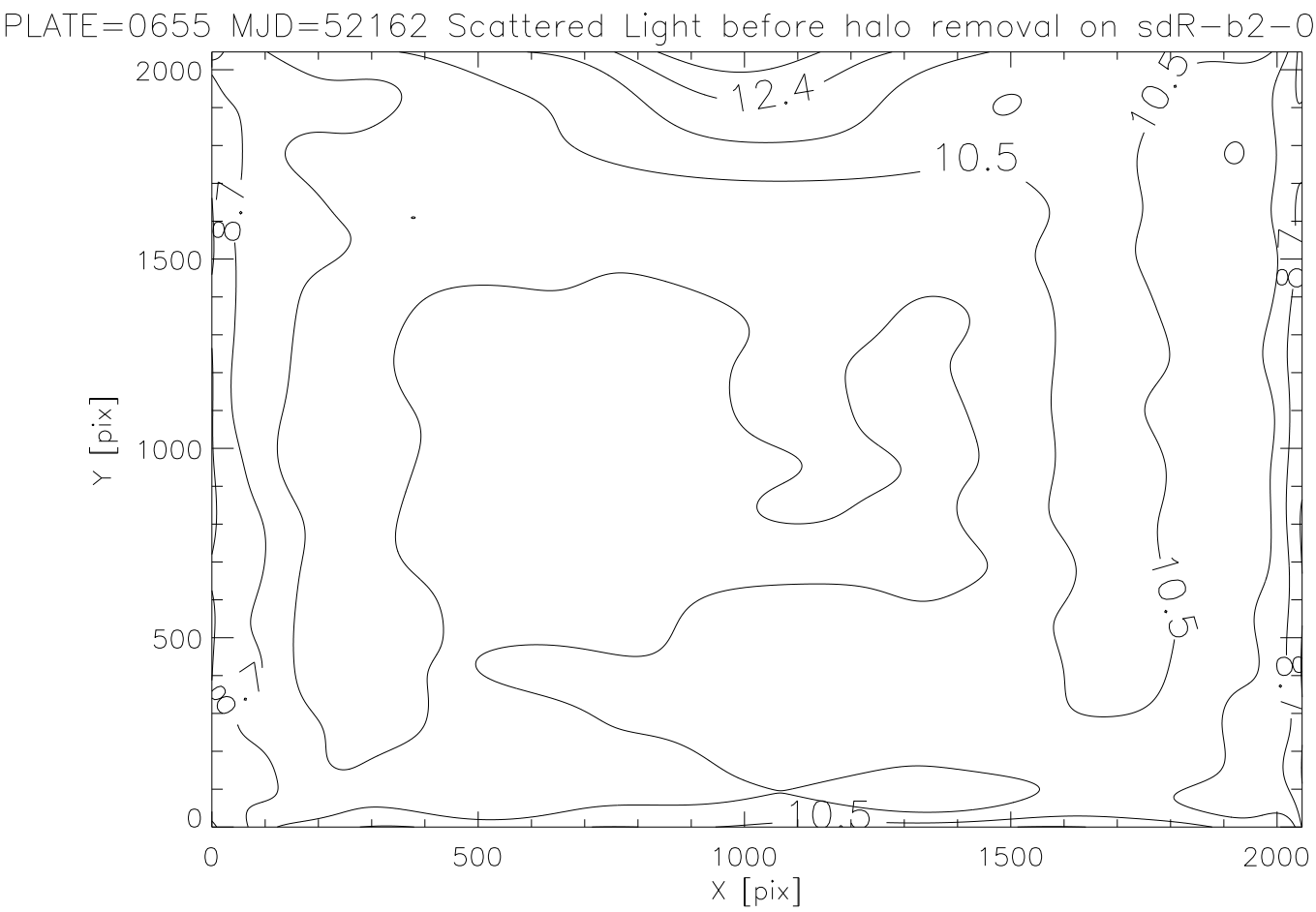

PLATE=0655 MJD=52162 sdR-b2-00010857.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

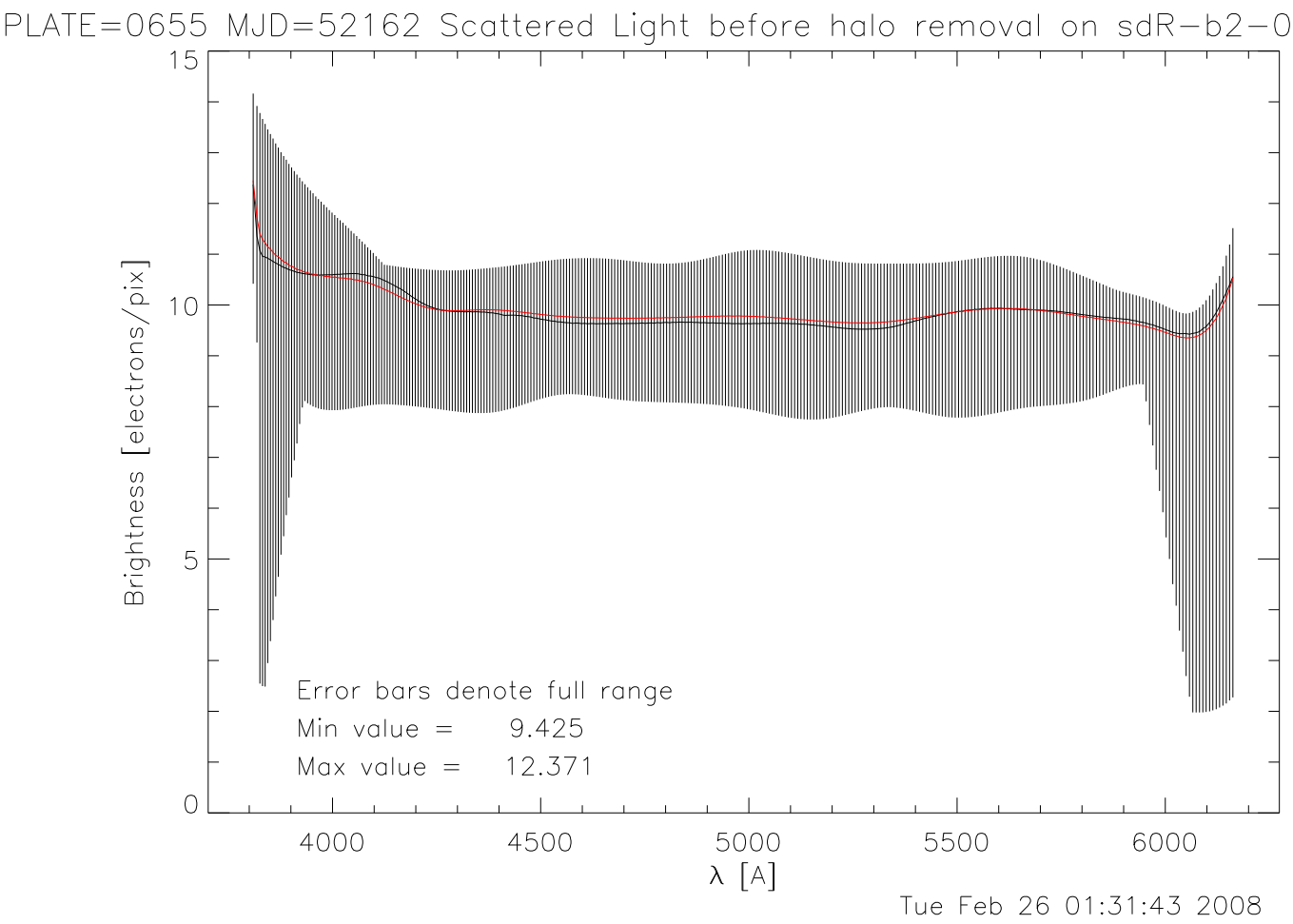

Number of sky fibers = 16
PLATE=0655 MJD=52162 sdR-b2-00010857.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

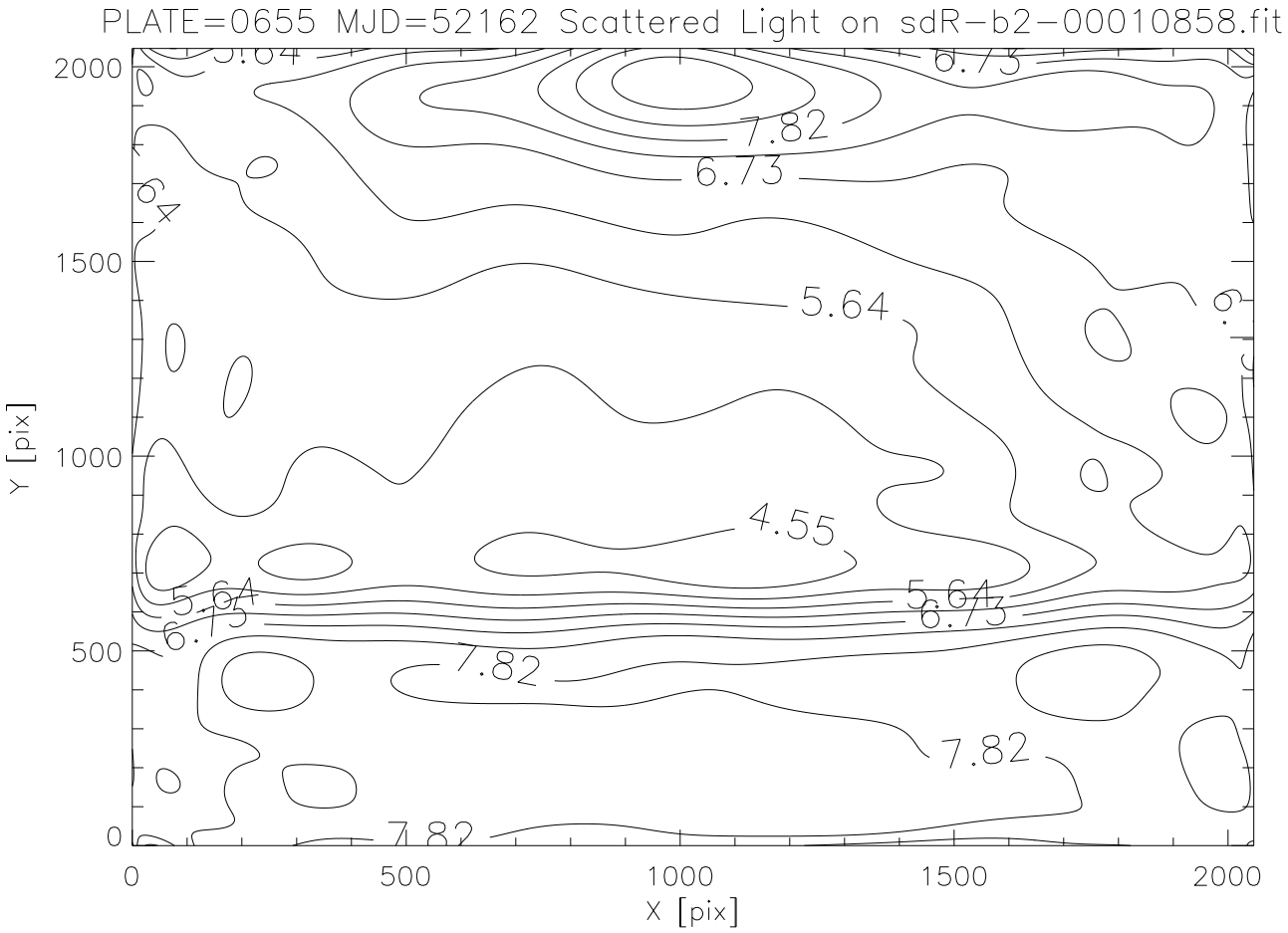

PLATE=0655 MJD=52162 sdR-b2-00010857.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 9.76 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

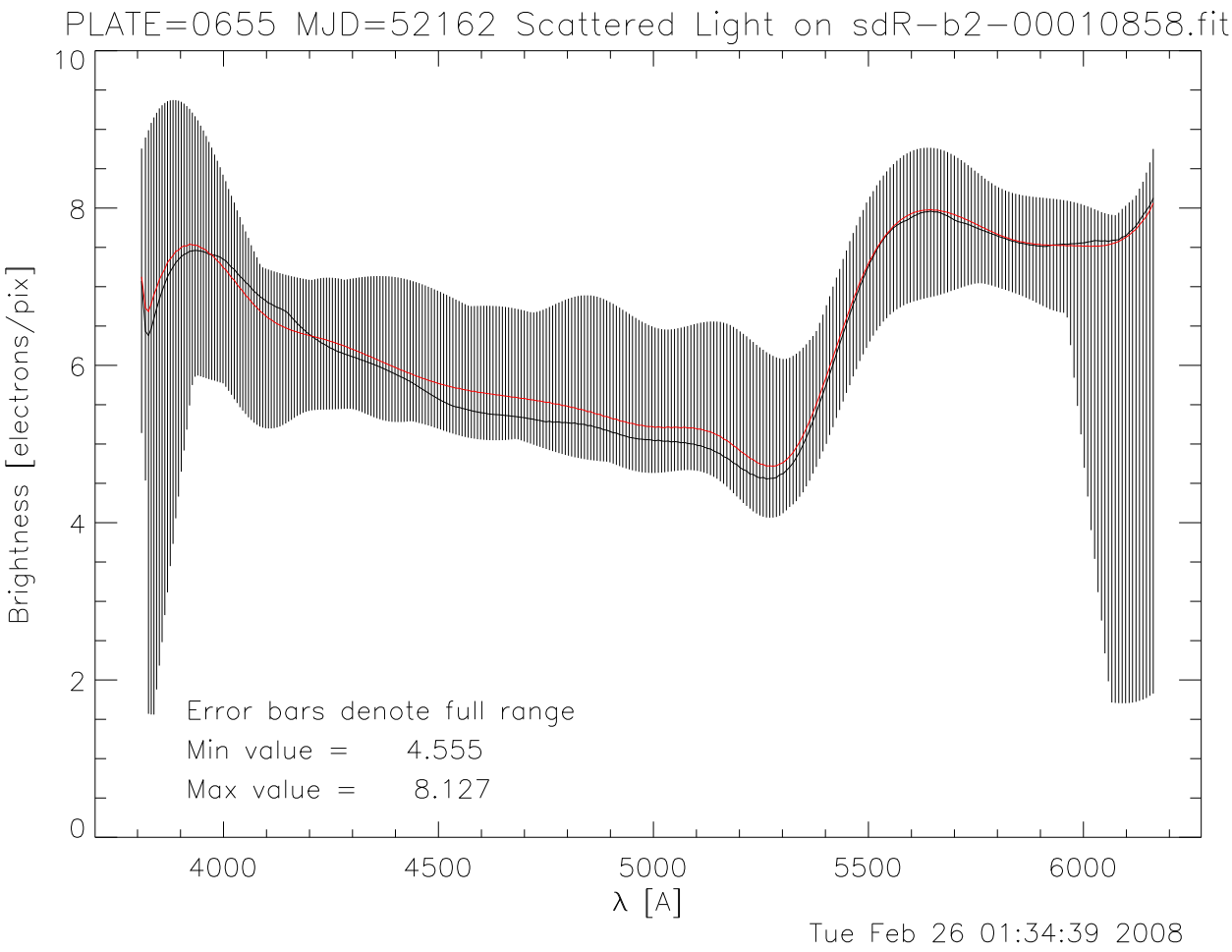

PLATE=0655 MJD=52162 sdR-b2-00010857.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.24 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

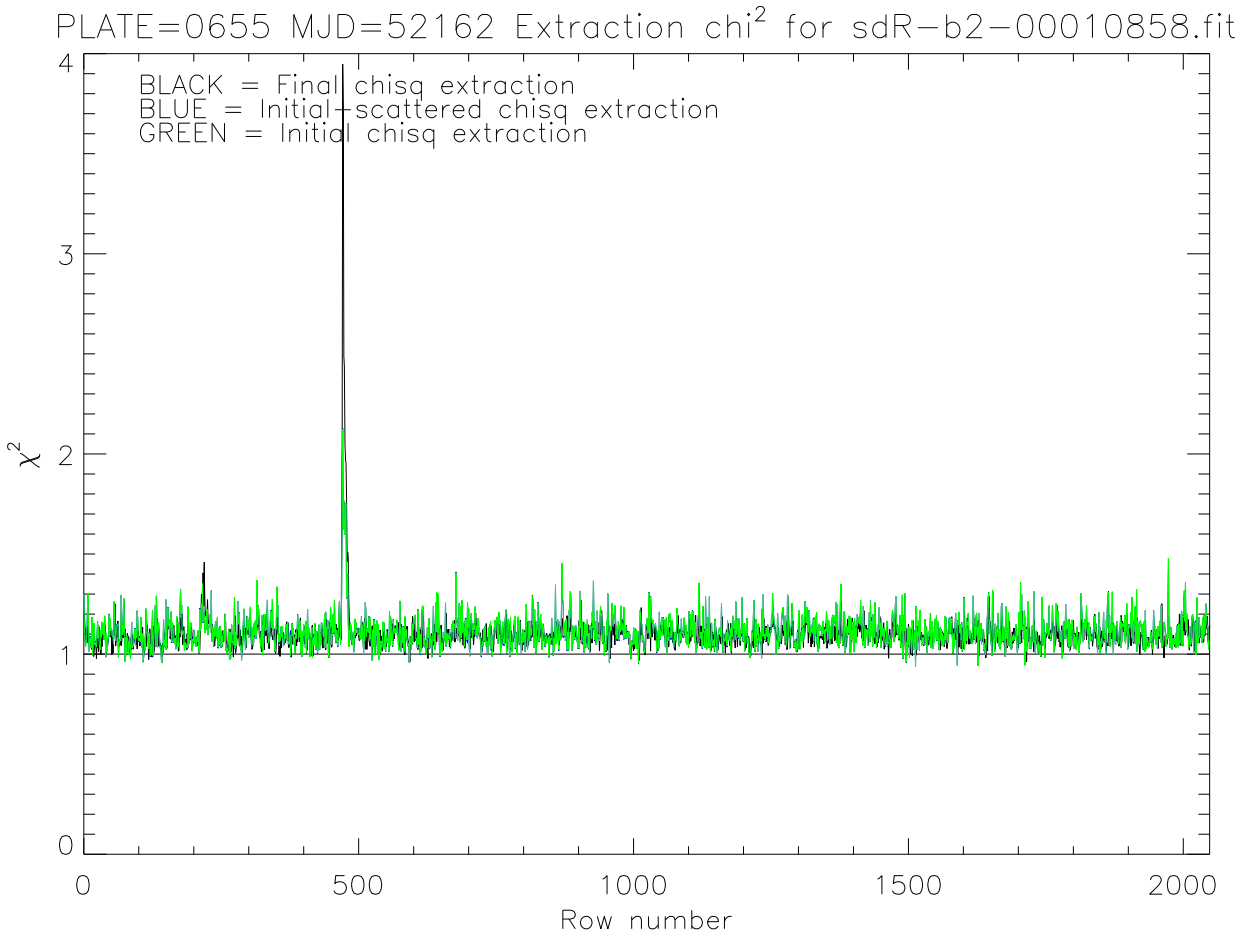

PLATE=0655 MJD=52162 Fiber-Flats for sdR-b2-00010854.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.584
Max value = 1.246
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 01:30:54 2008

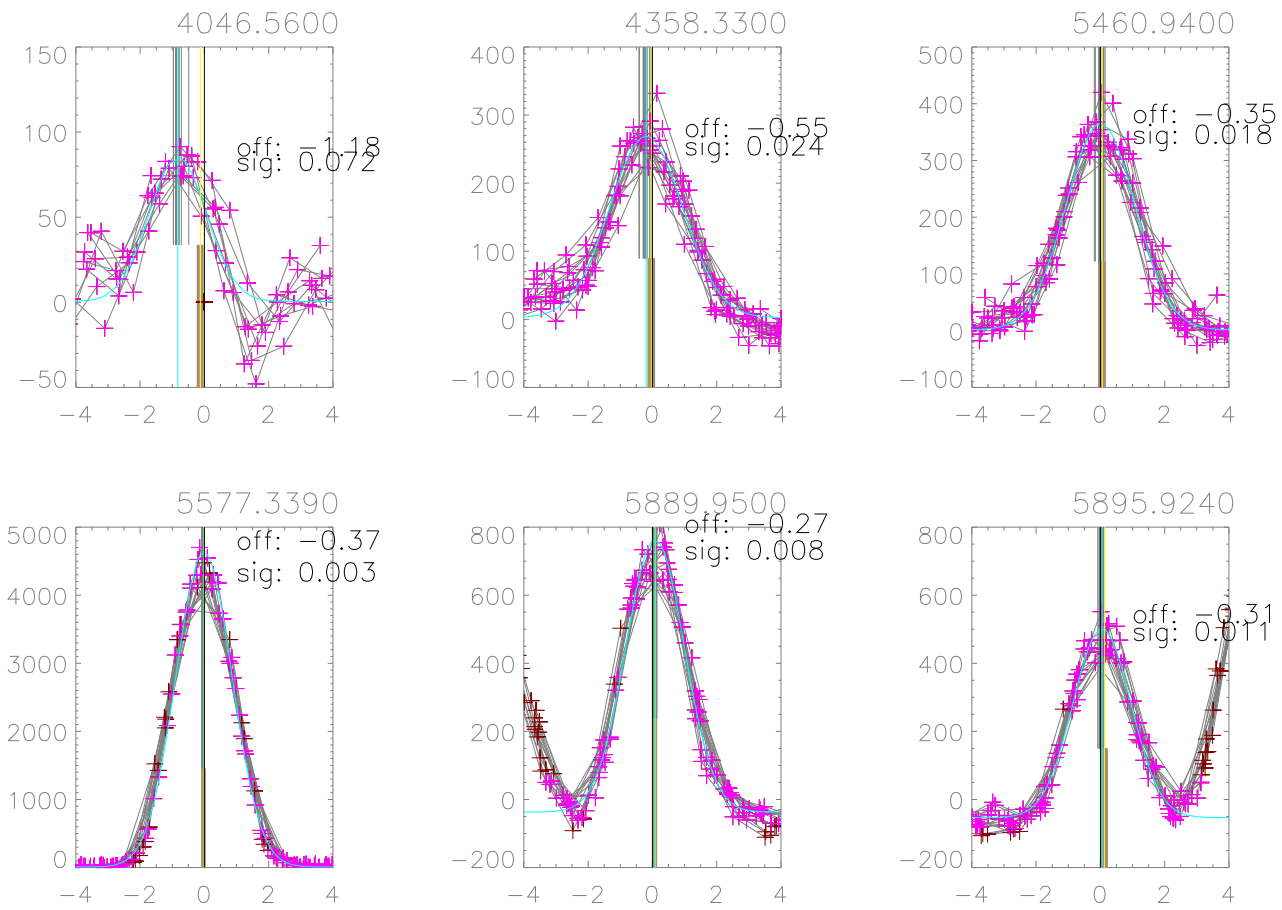

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-b2-00010858.f
12.4
10.5
10.5
10.5
10.5
10.5
18.7
18.7
18.7
18.7
0
500
1000
1500
2000
X [pix]
Y [pix]

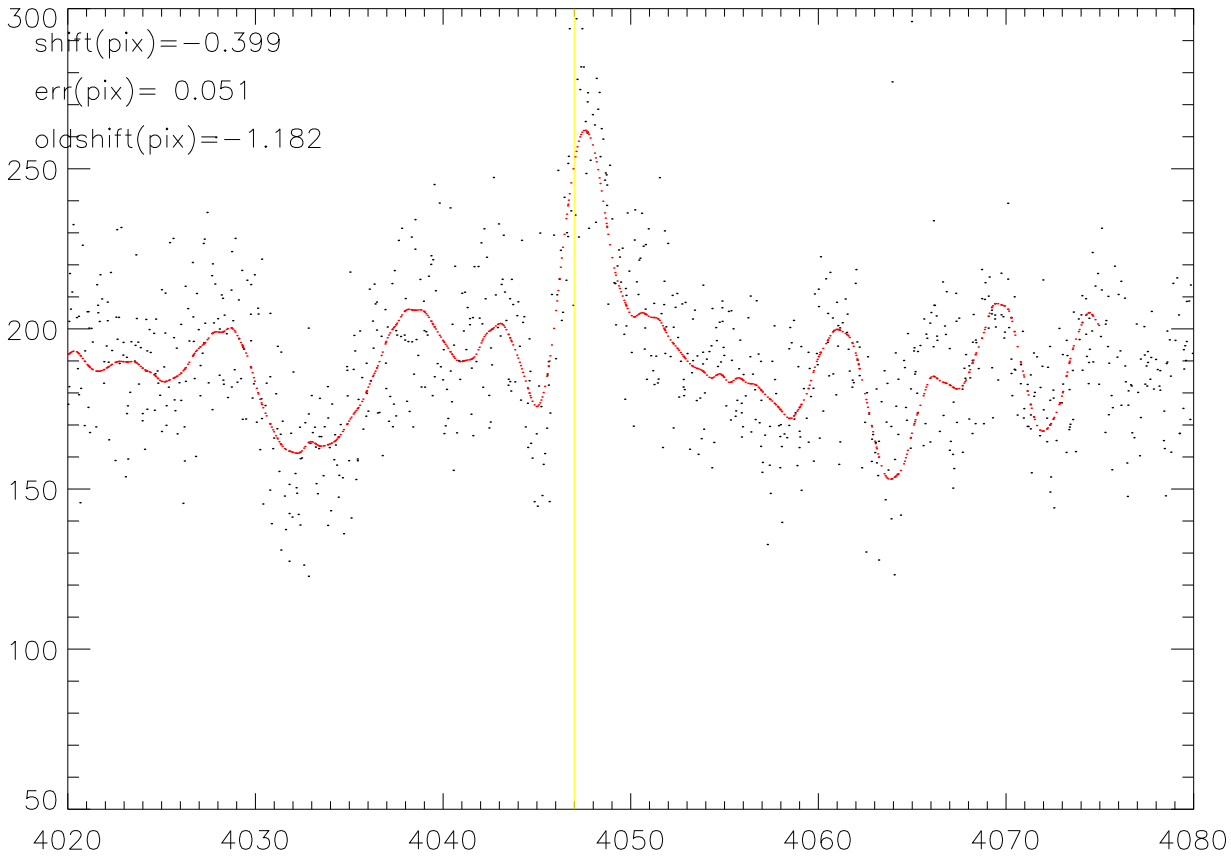

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-b2-00010858.f
Brightness [electrons/pix]
15
10
5
0
Error bars denote full range
Min value = 9.425
Max value = 12.371
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 01:31:43 2008

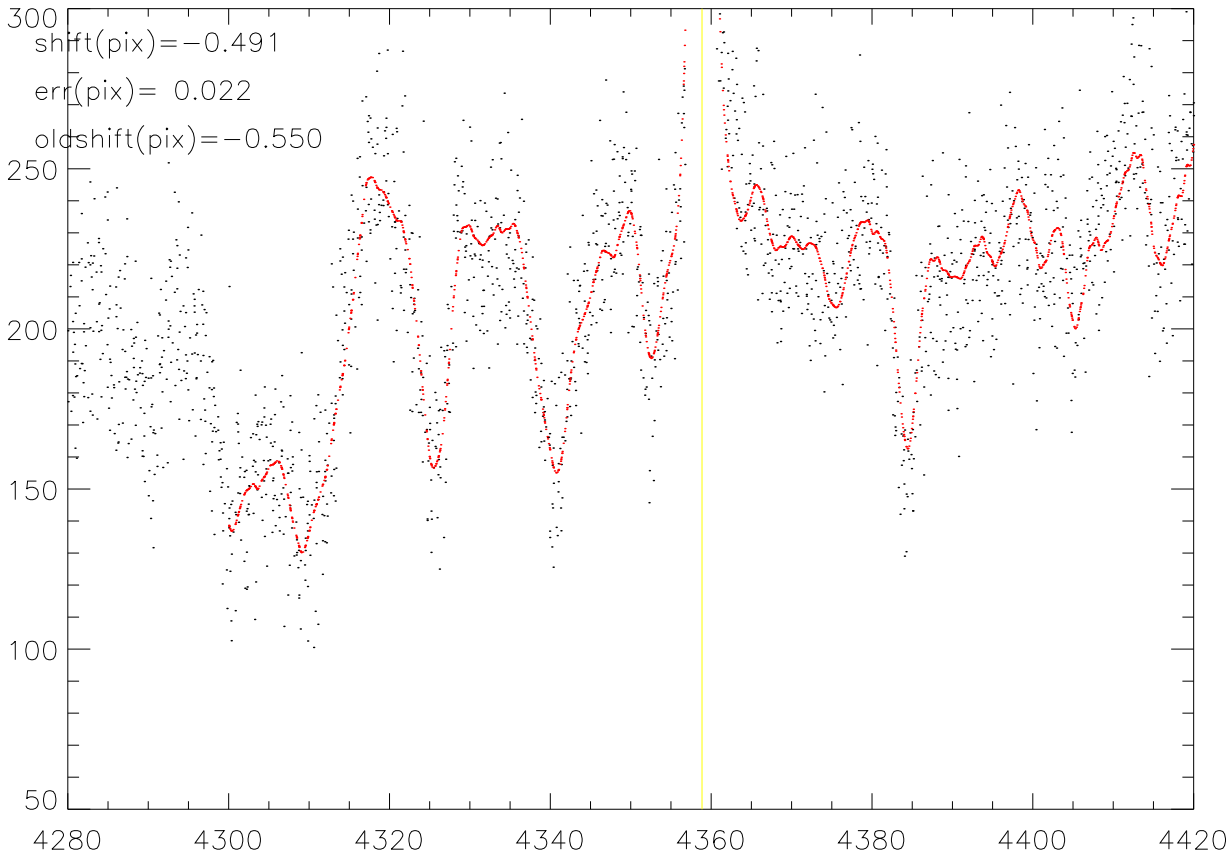

PLATE=0655 MJD=52162 Scattered Light on sdR-b2-00010858.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
7.82
6.73
5.64
4.55

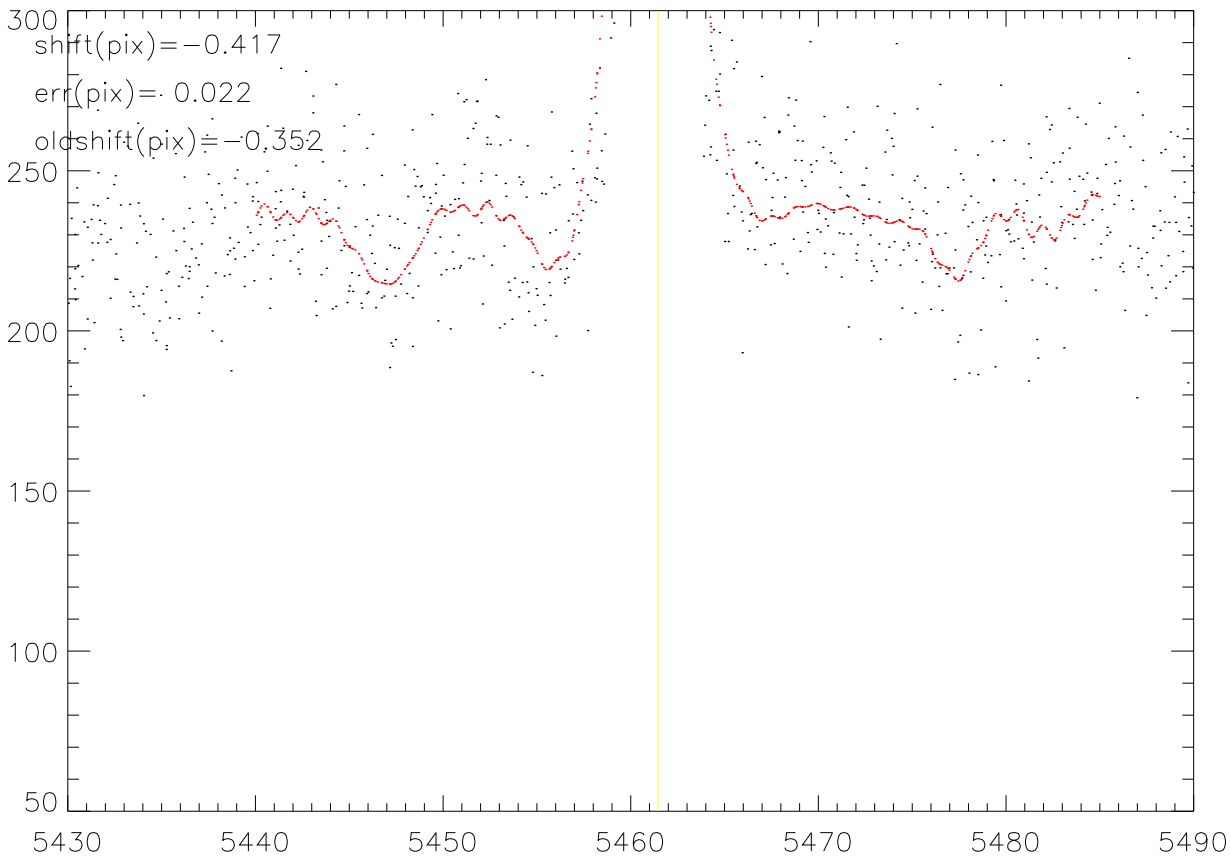

PLATE=0655 MJD=52162 Scattered Light on sdR-b2-00010858.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.555
Max value = 8.127
Tue Feb 26 01:34:39 2008

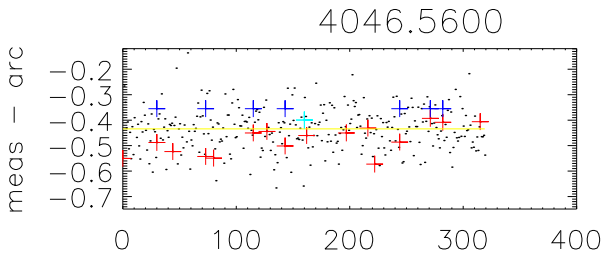

PLATE=0655 MJD=52162 Extraction chi^2 for sdR-b2-00010858.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

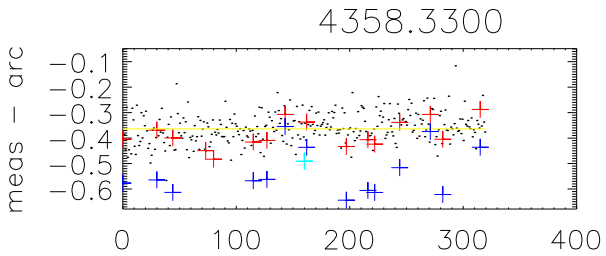

4046.5600
off: −1.18
sig: 0.072
4358.3300
off: −0.55
sig: 0.024
5460.9400
off: −0.35
sig: 0.018
5577.3390
off: −0.37
sig: 0.003
5889.9500
off: −0.27
sig: 0.008
5895.9240
off: −0.31
sig: 0.011

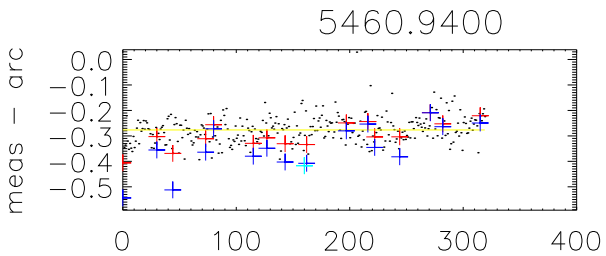

shift(pix)=−0.399
err(pix)= 0.051
oldshift(pix)=−1.182
300
250
200
150
100
50
4020
4030
4040
4050
4060
4070
4080

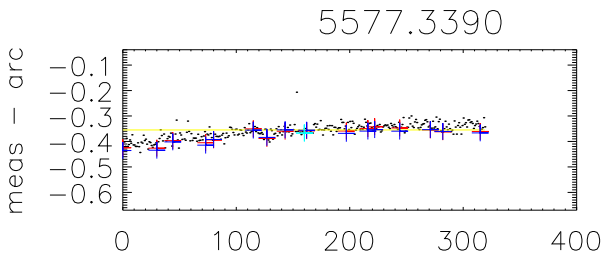

shift(pix)=−0.491
err(pix)= 0.022
oldshift(pix)=−0.550
300
250
200
150
100
50
4280
4300
4320
4340
4360
4380
4400
4420

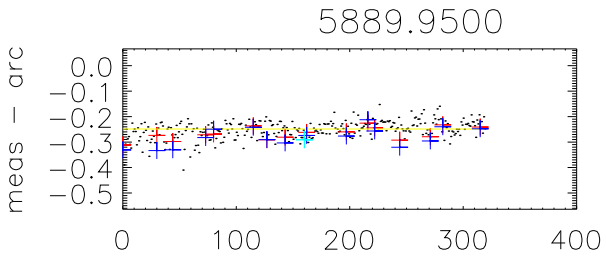

shift(pix)=−0.417
err(pix)= 0.022
oldshift(pix)=−0.352
300
250
200
150
100
50
5430
5440
5450
5460
5470
5480
5490

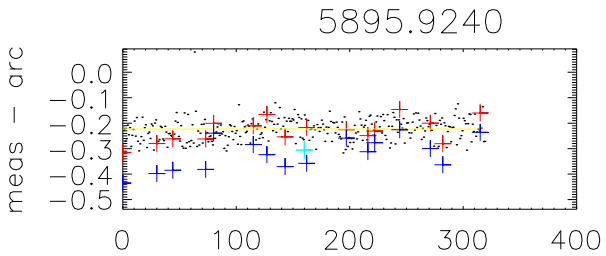

4046.5600
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

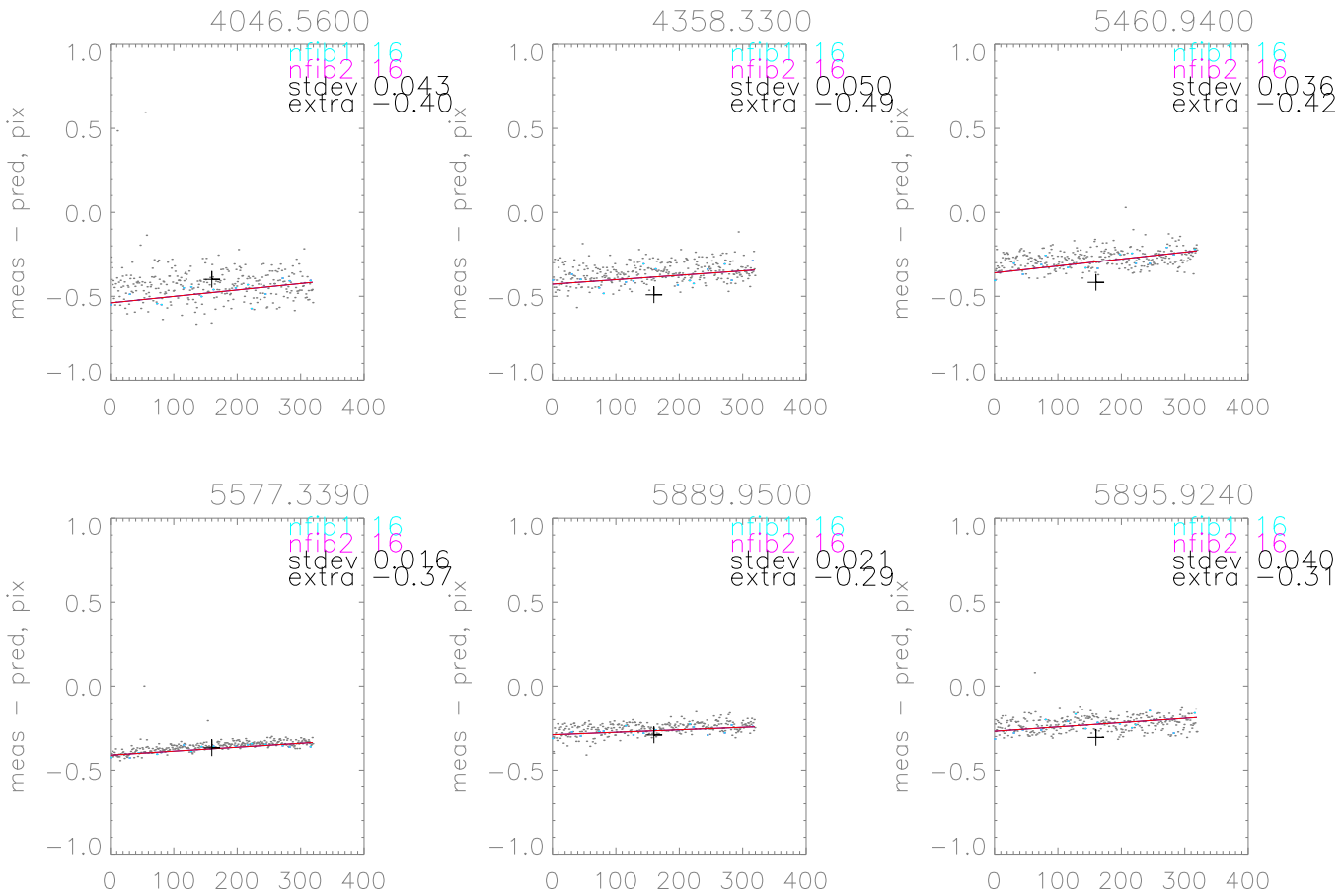

4358.3300
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

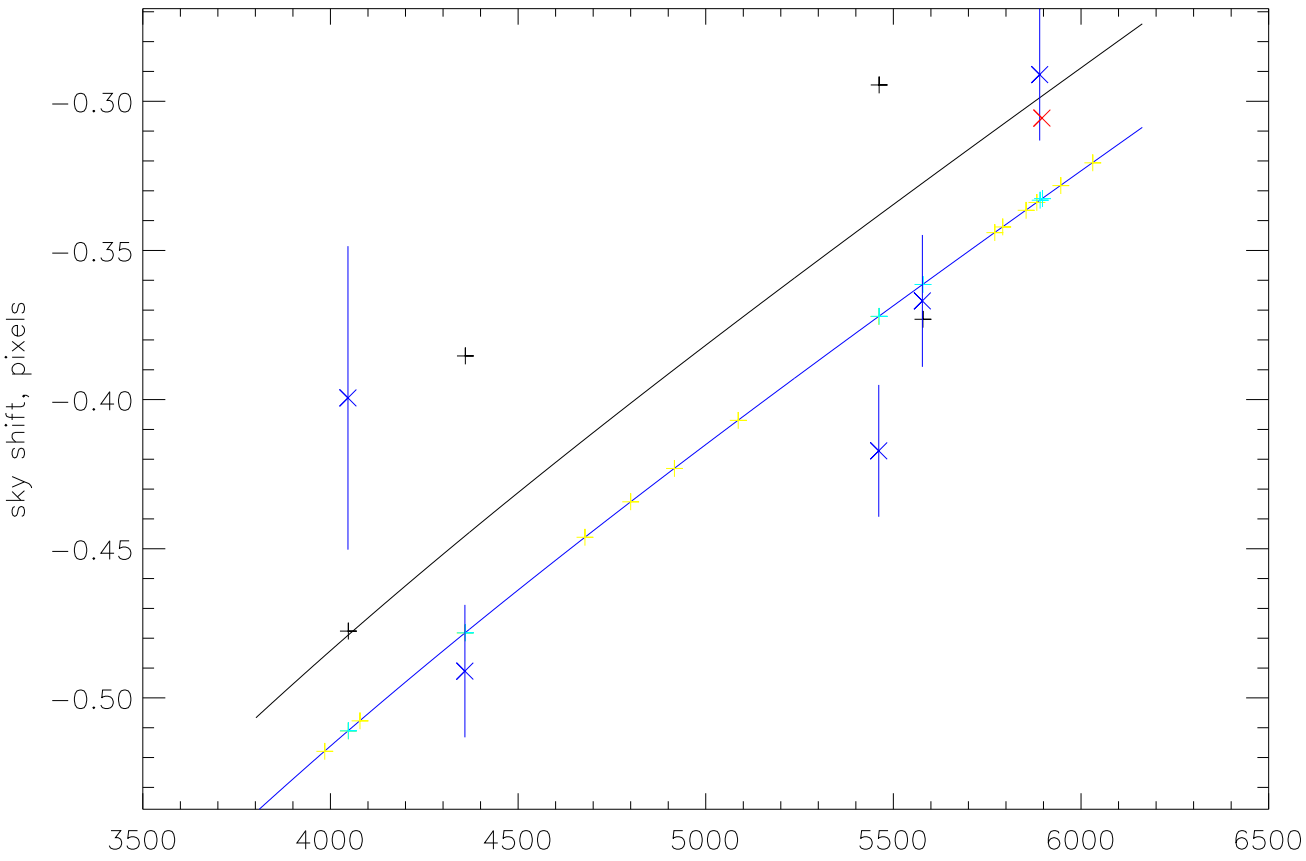

5460.9400
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

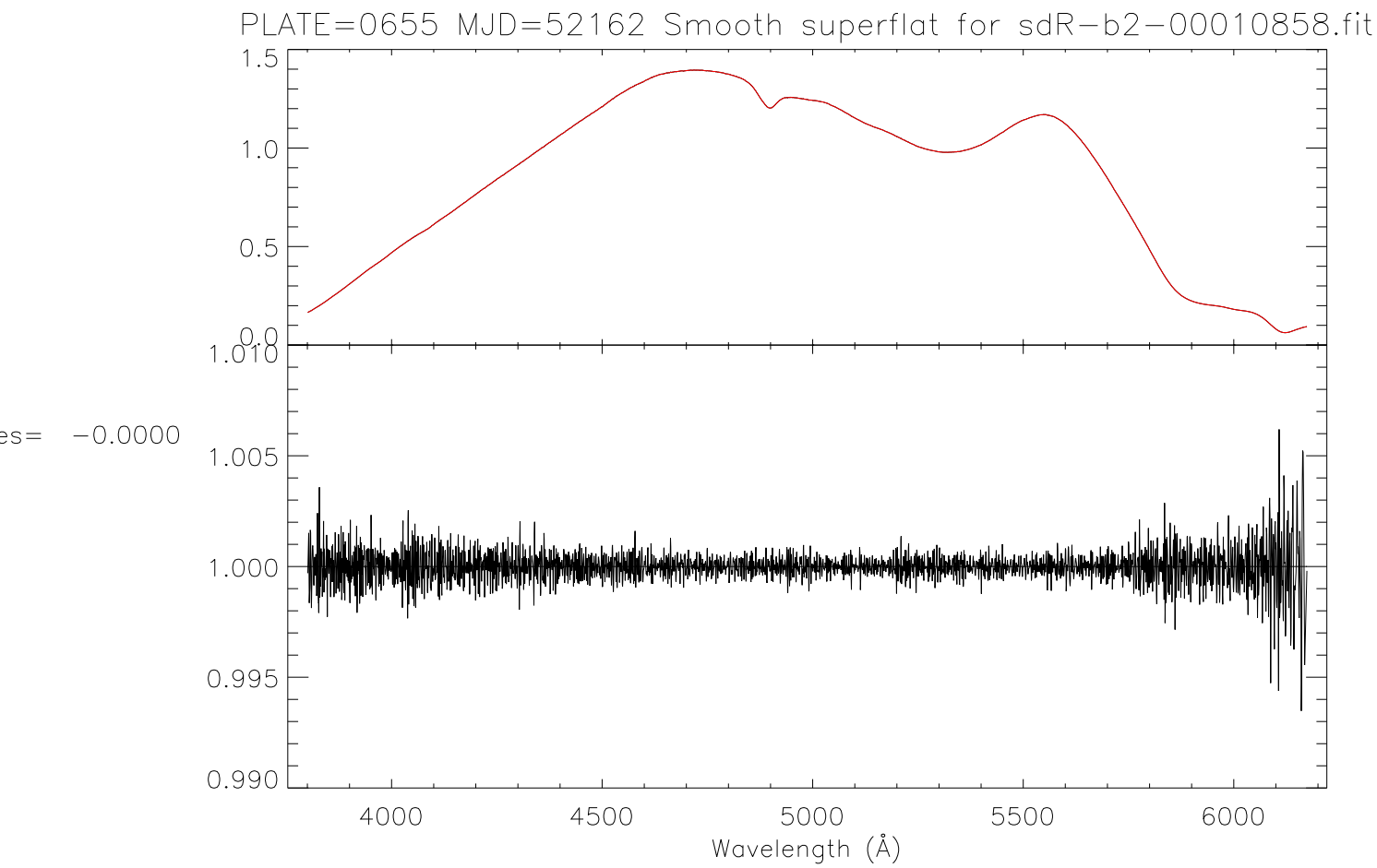

5577.3390
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

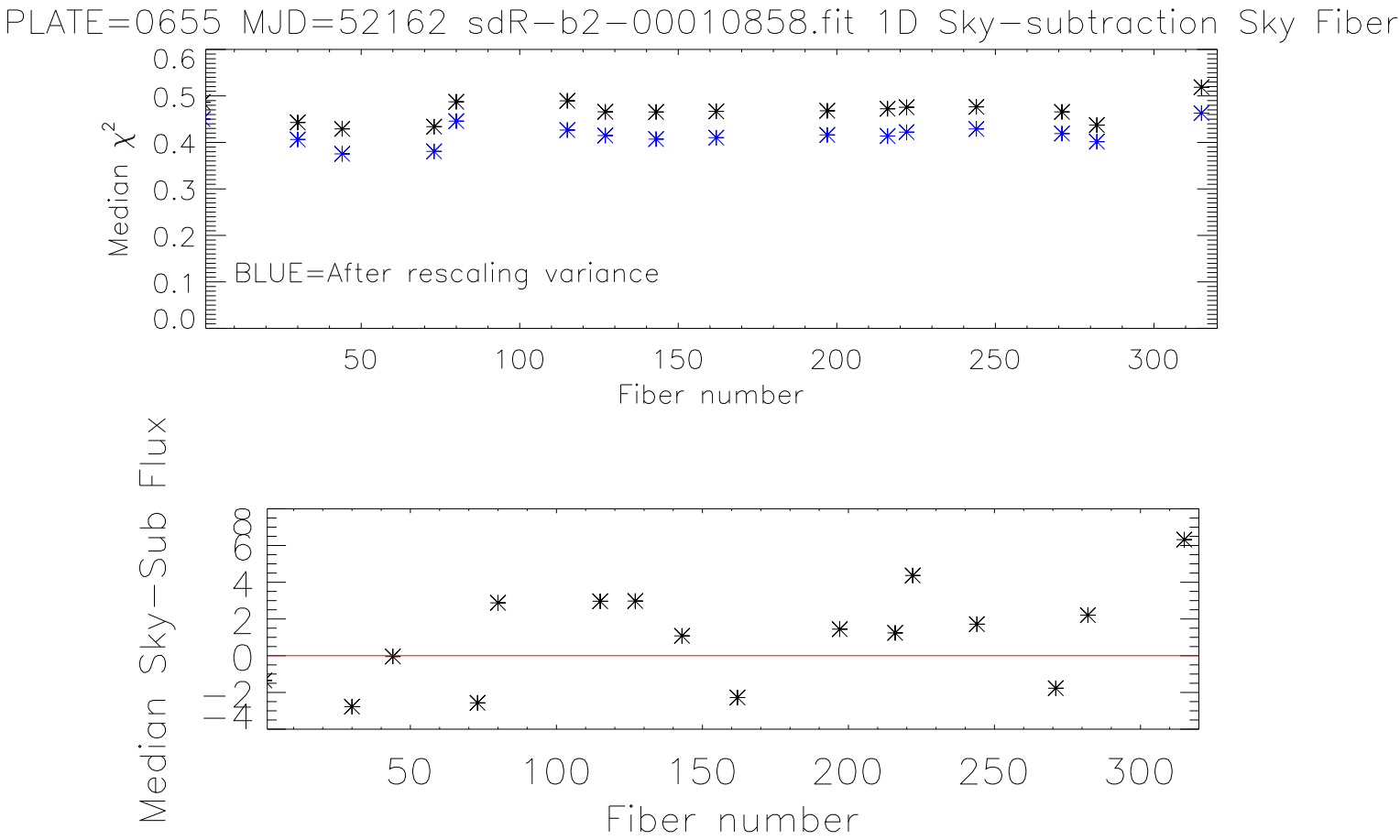

5889.9500
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

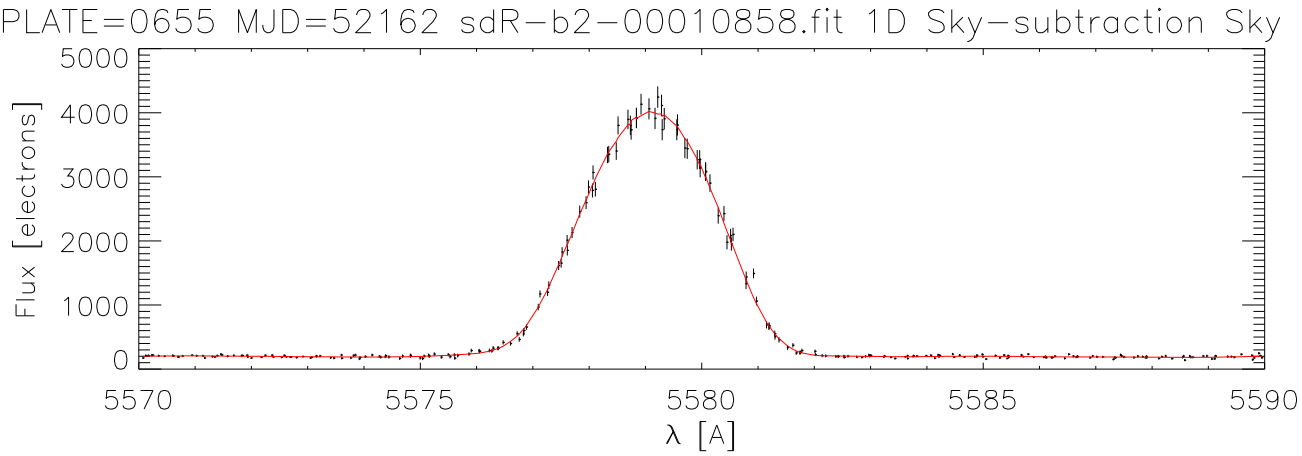

5895.9240
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

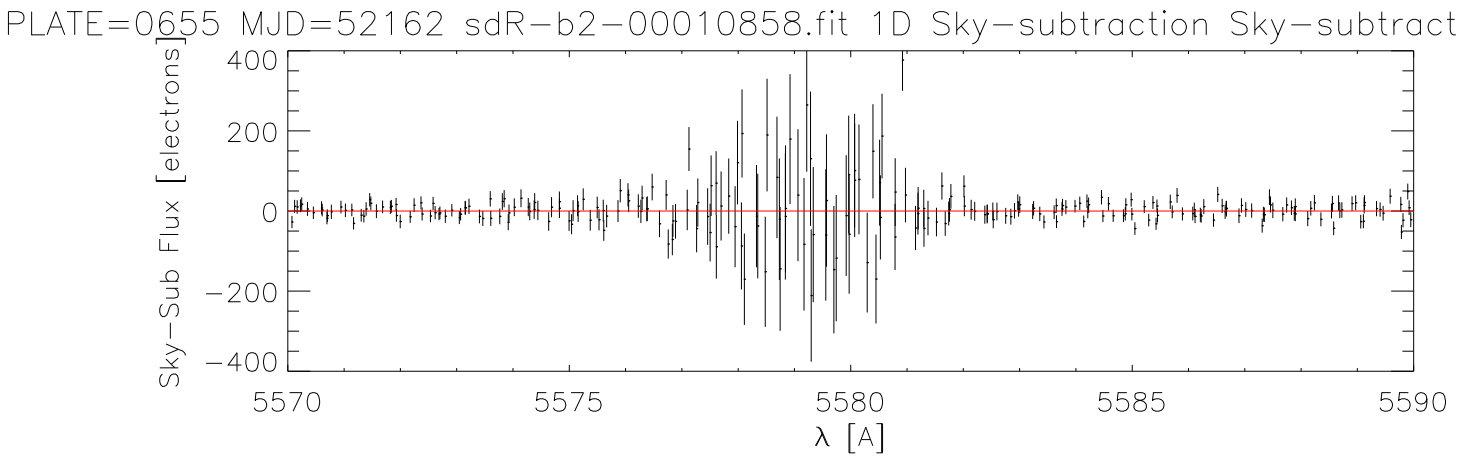

4046.5600
nfib1 16
nfib2 16
stdev 0.043
extra −0.40
4358.3300
nfib1 16
nfib2 16
stdev 0.050
extra −0.49
5460.9400
nfib1 16
nfib2 16
stdev 0.036
extra −0.42
5577.3390
nfib1 16
nfib2 16
stdev 0.016
extra −0.37
5889.9500
nfib1 16
nfib2 16
stdev 0.021
extra −0.29
5895.9240
nfib1 16
nfib2 16
stdev 0.040
extra −0.31
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

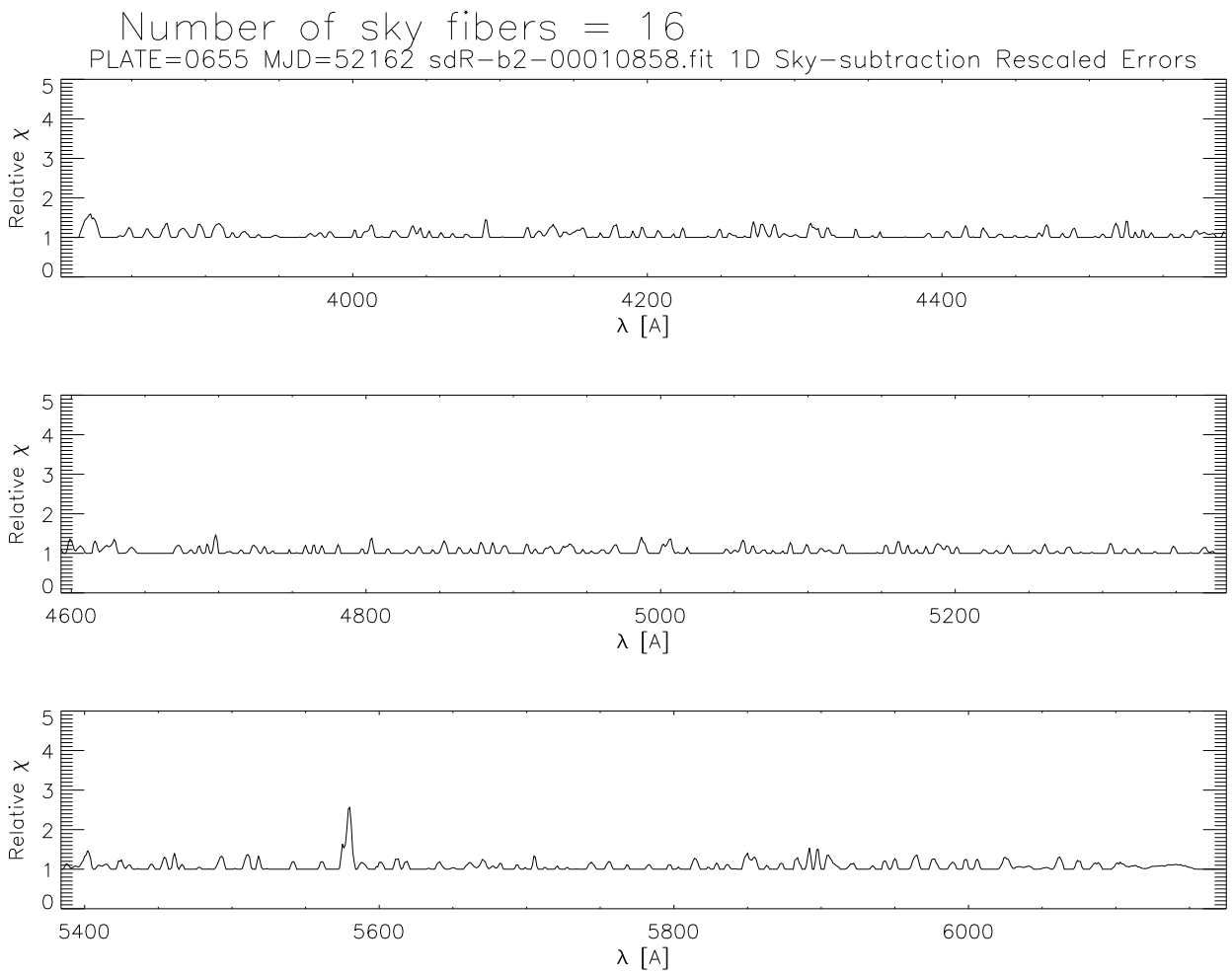

−0.30
−0.35
−0.40
−0.45
−0.50
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

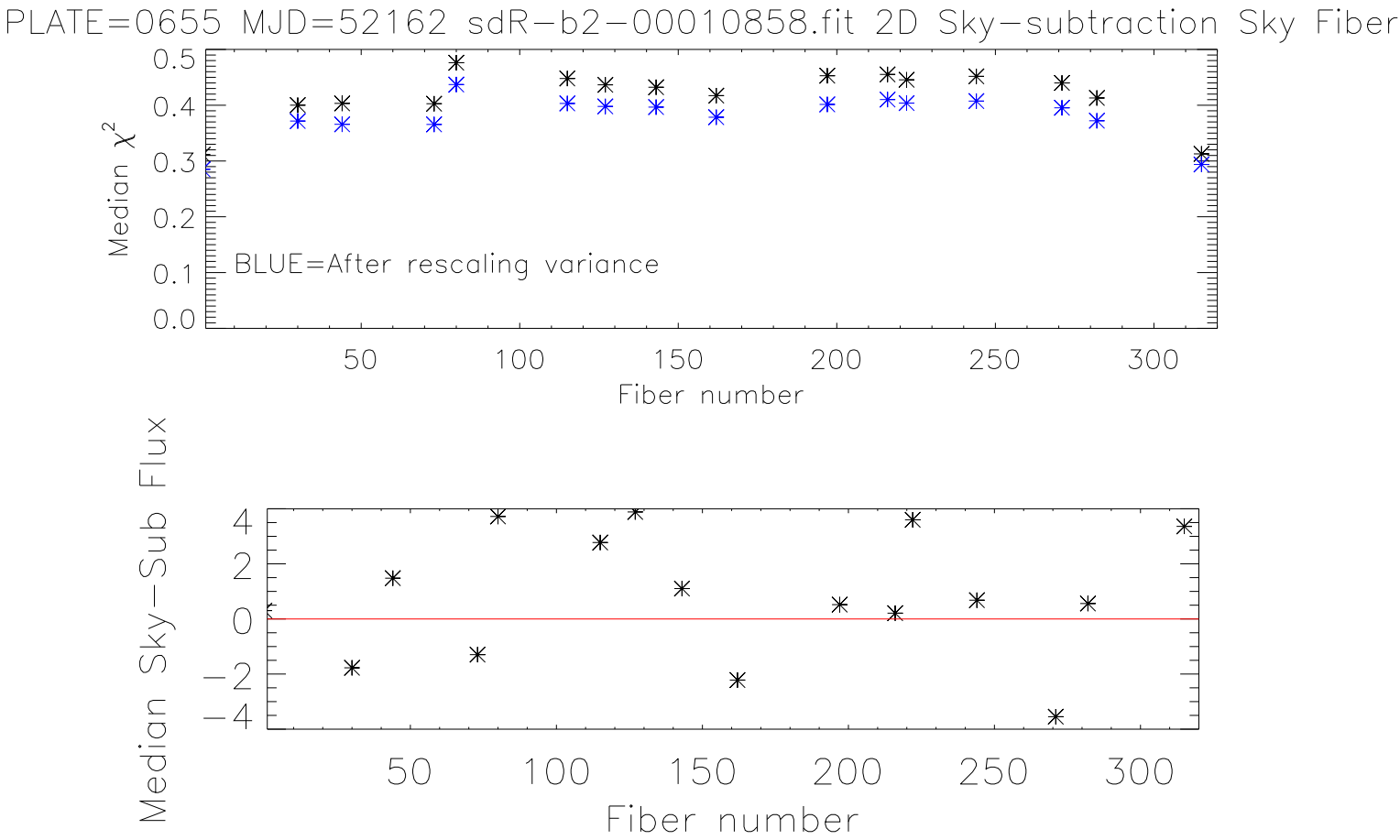

PLATE=0655 MJD=52162 Smooth superflat for sdR-b2-00010858.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= -0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

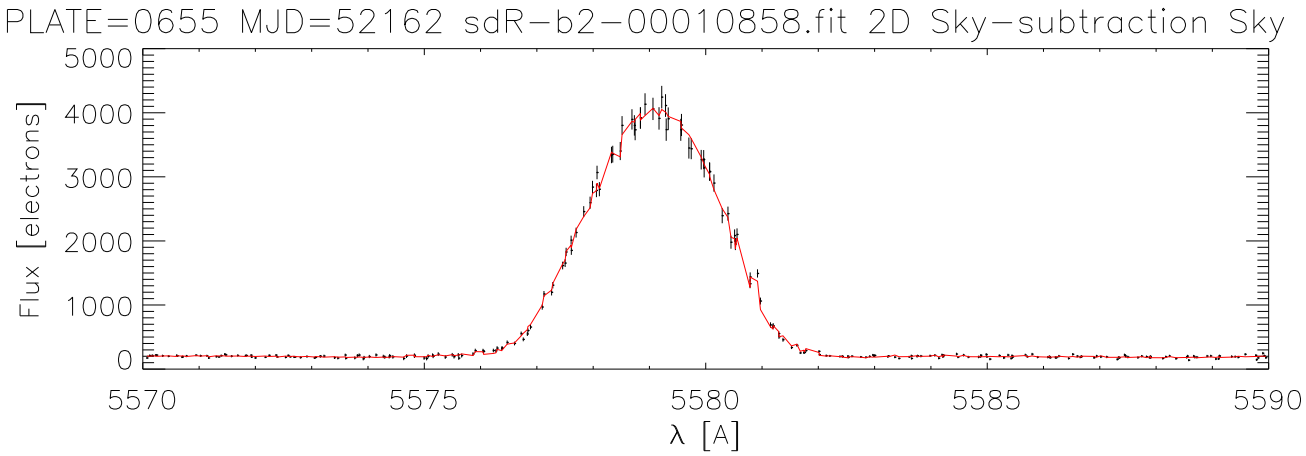

PLATE=0655 MJD=52162 sdR-b2-00010858.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

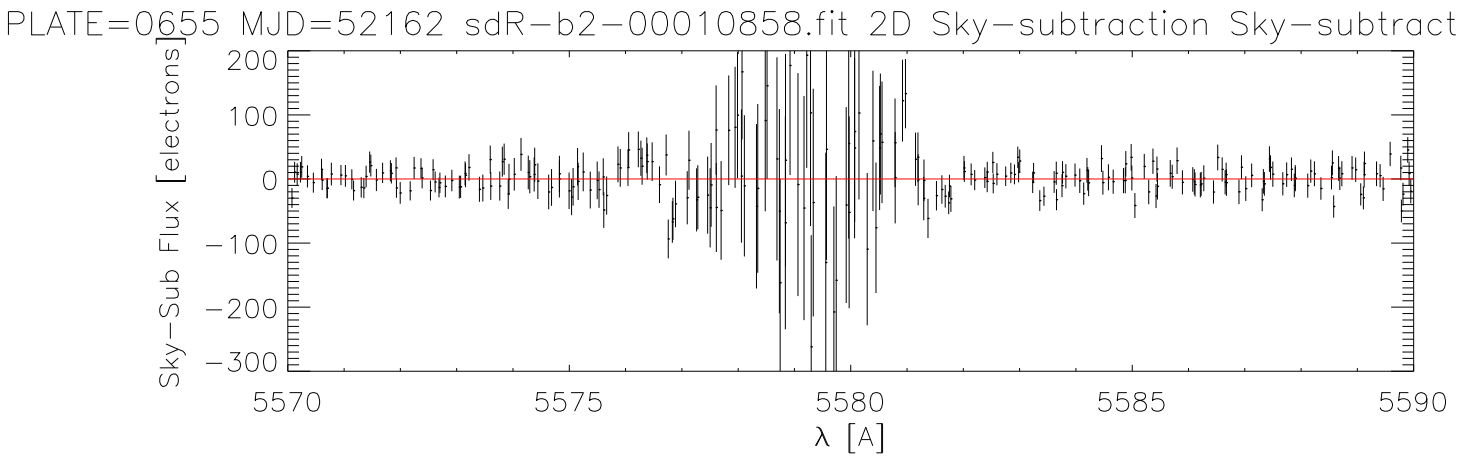

PLATE=0655 MJD=52162 sdR-b2-00010858.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

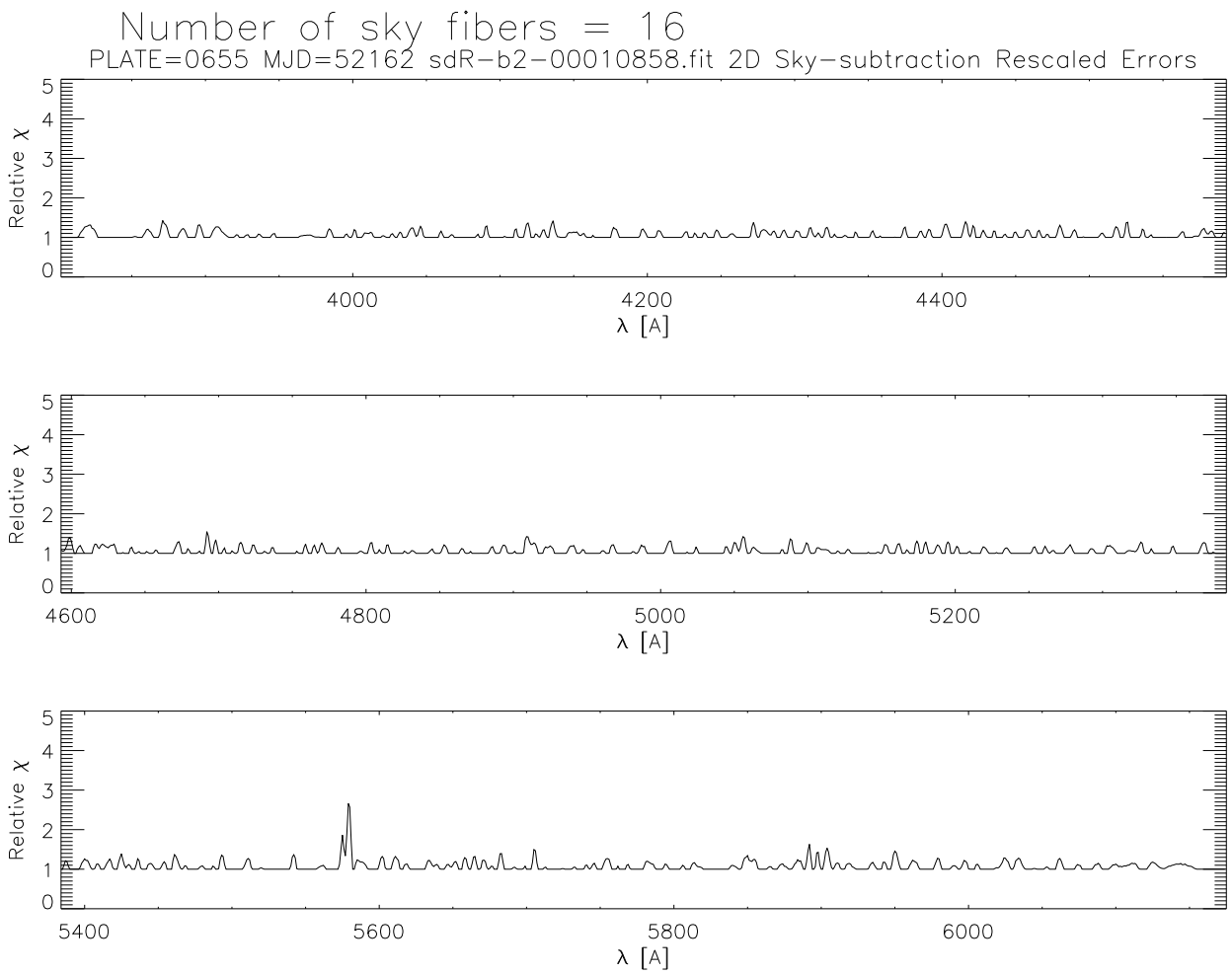

PLATE=0655 MJD=52162 sdR-b2-00010858.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

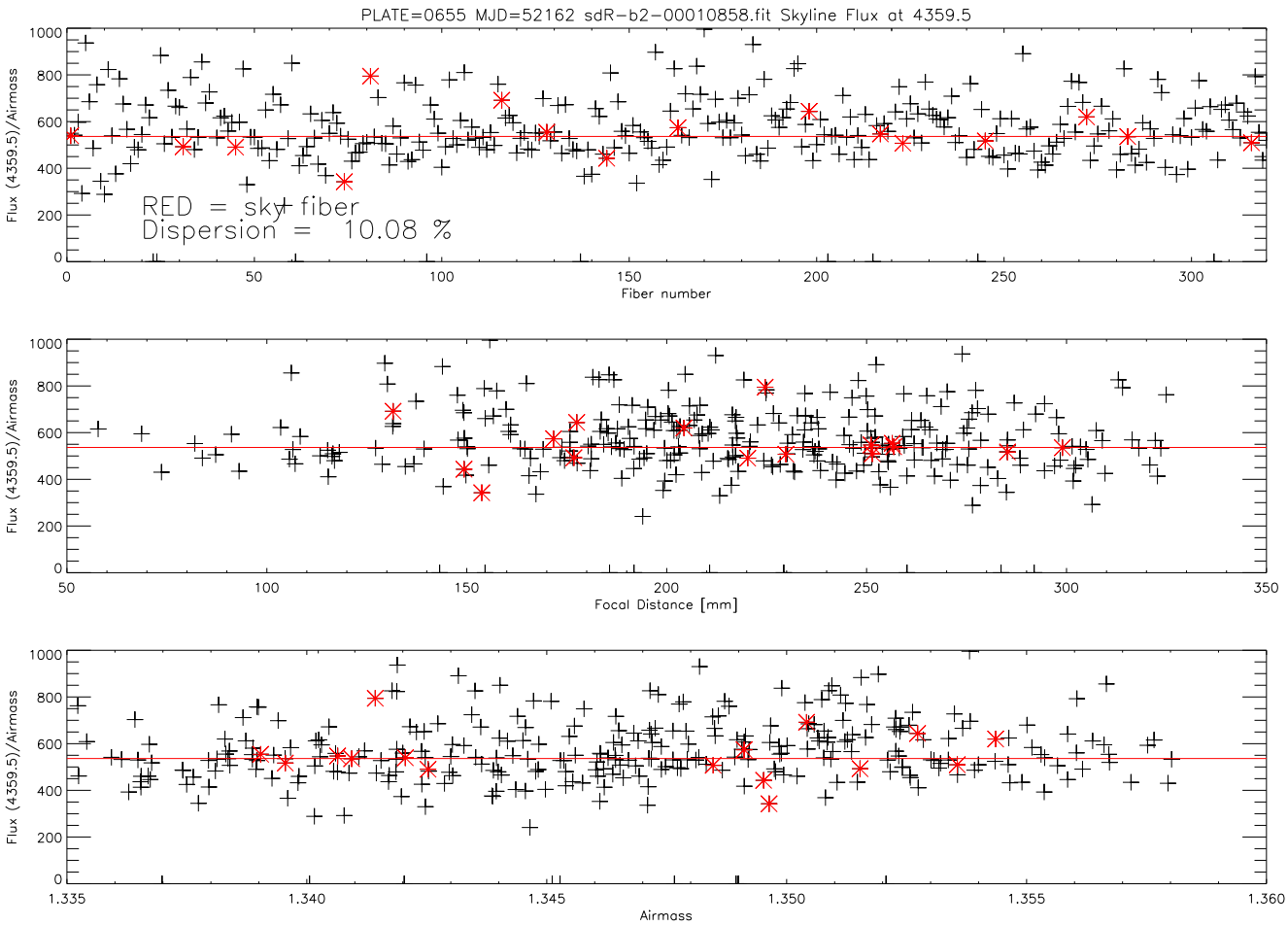

Number of sky fibers = 16
PLATE=0655 MJD=52162 sdR-b2-00010858.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

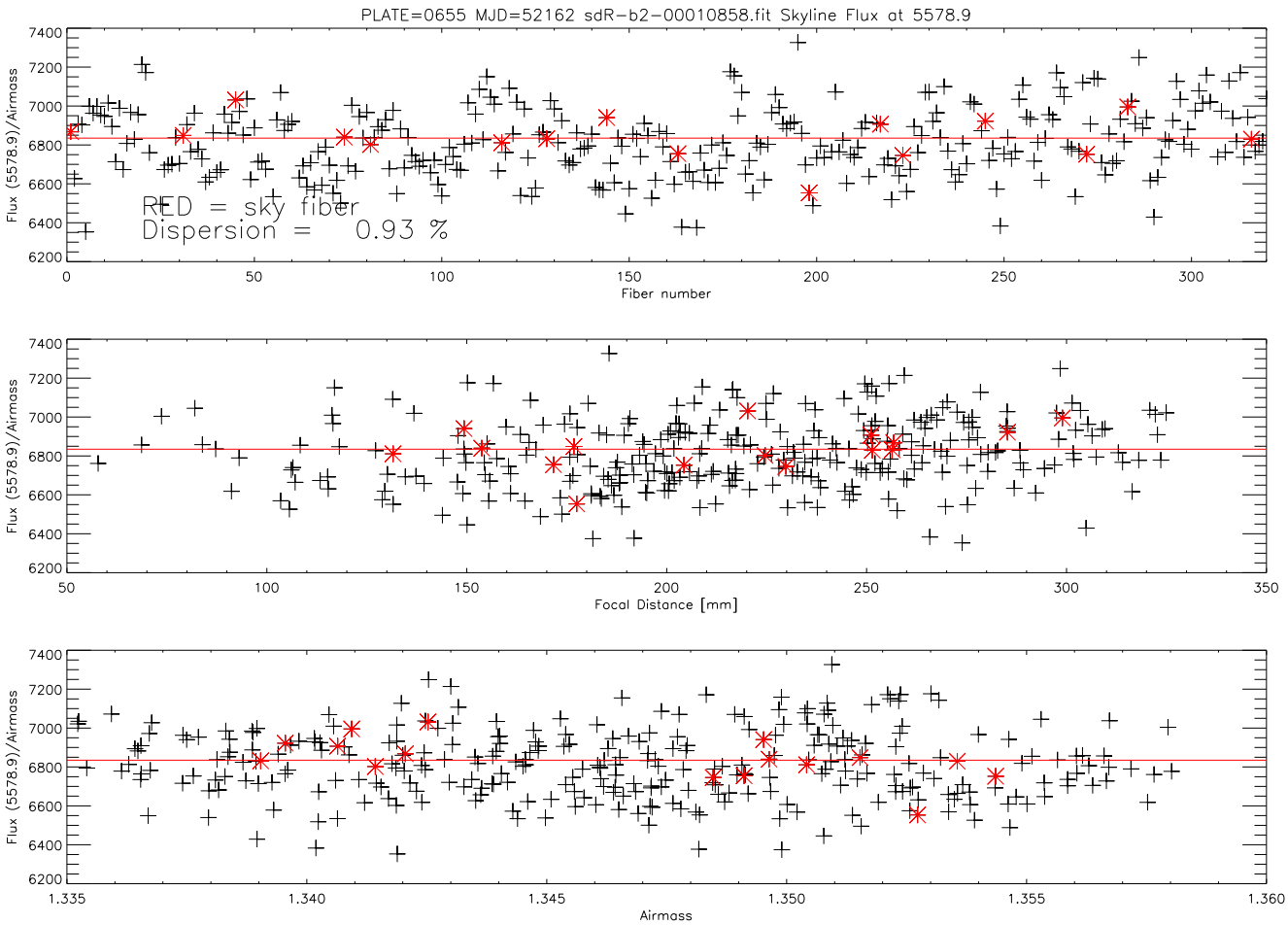

PLATE=0655 MJD=52162 sdR-b2-00010858.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

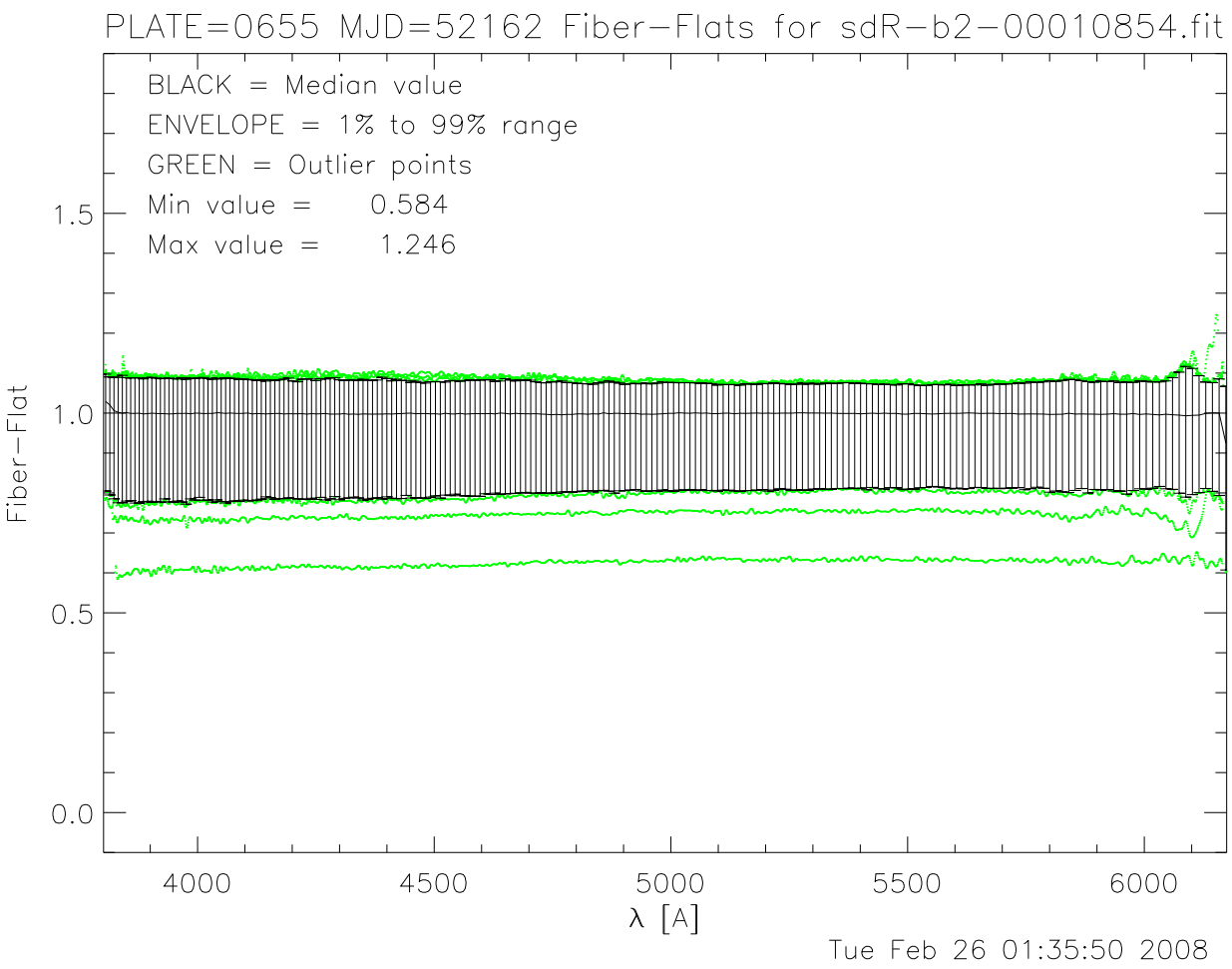

PLATE=0655 MJD=52162 sdR-b2-00010858.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

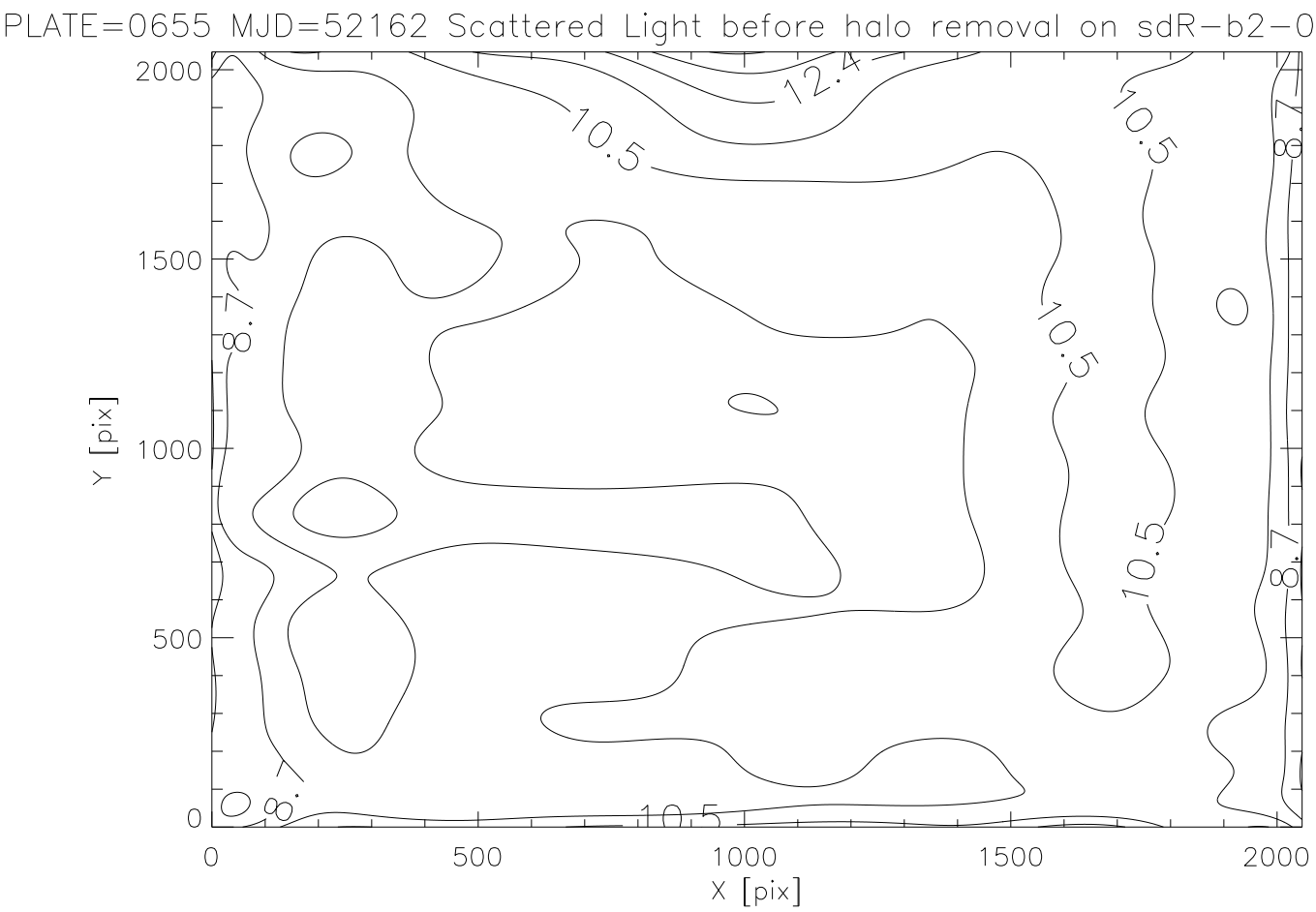

PLATE=0655 MJD=52162 sdR-b2-00010858.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
−100
−200
−300
5570
5575
5580
5585
5590
λ [A]

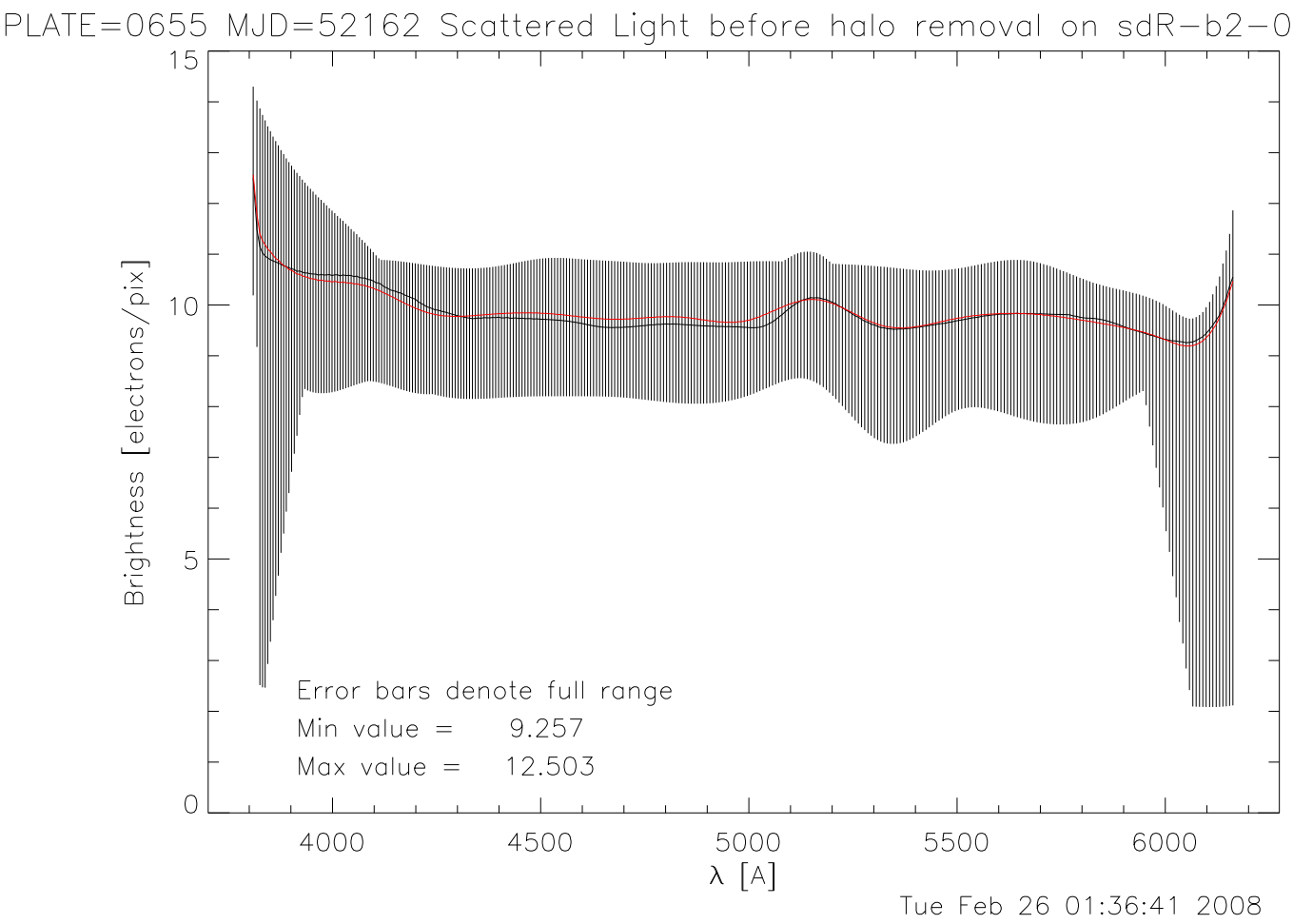

Number of sky fibers = 16
PLATE=0655 MJD=52162 sdR-b2-00010858.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

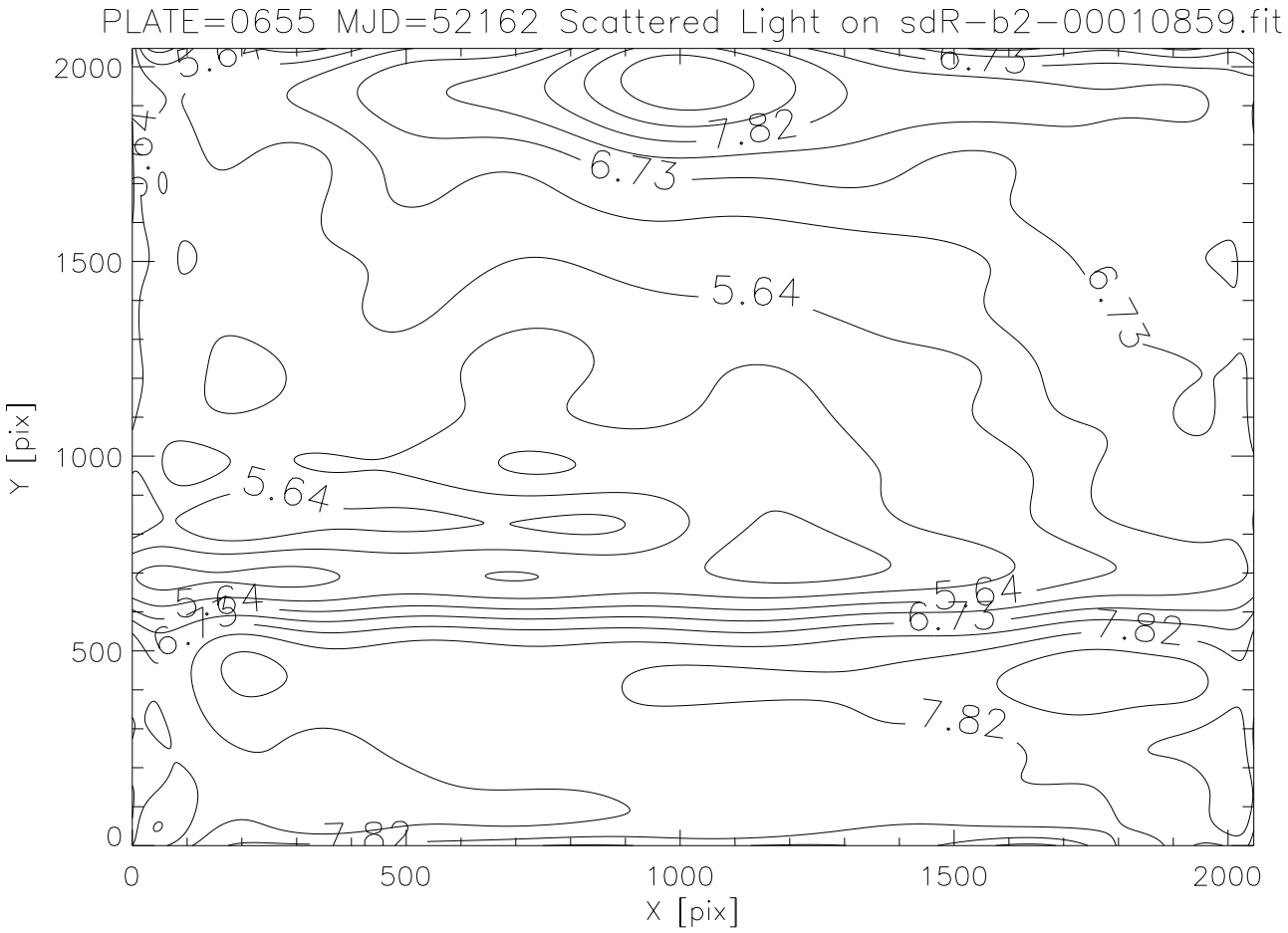

PLATE=0655 MJD=52162 sdR-b2-00010858.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 10.08 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

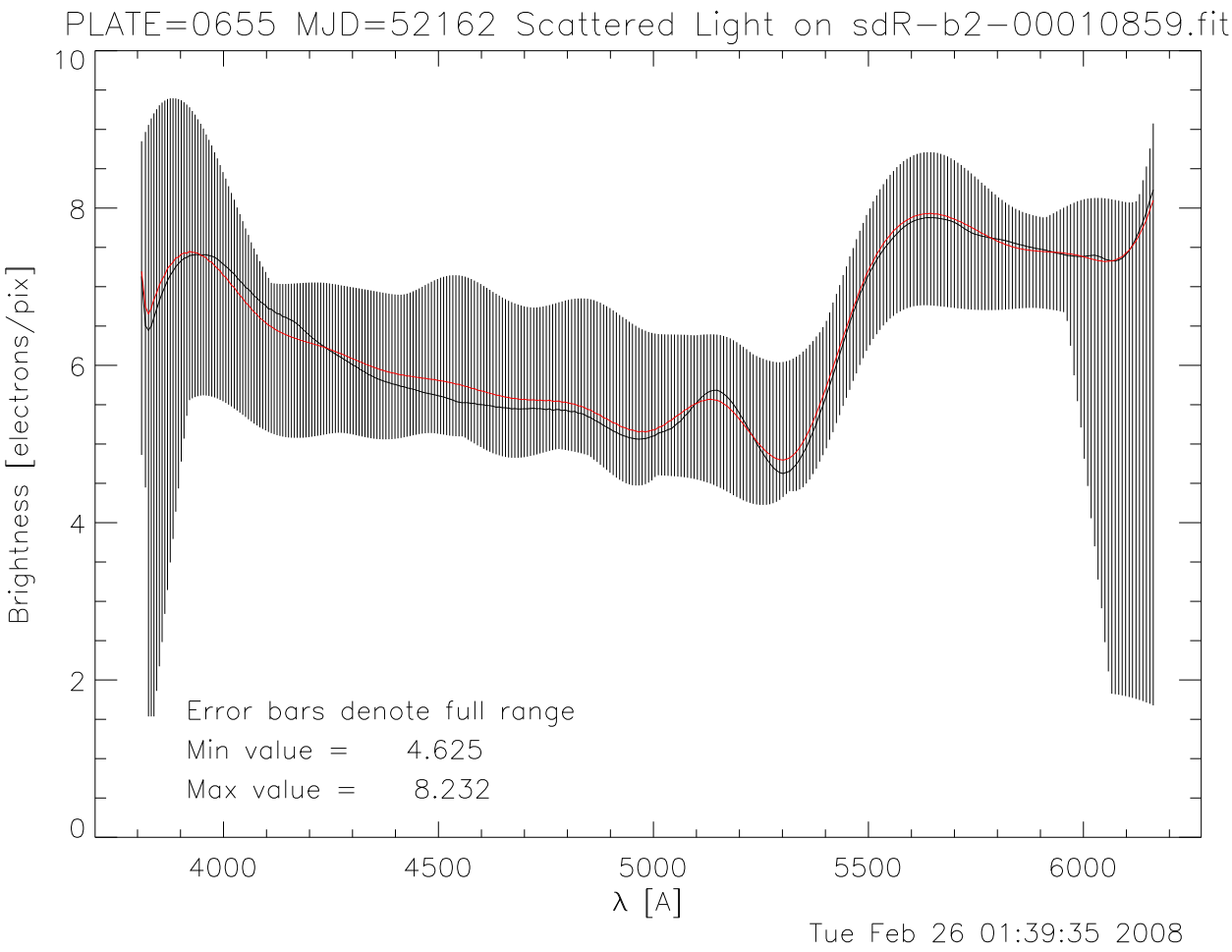

PLATE=0655 MJD=52162 sdR-b2-00010858.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 0.93 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

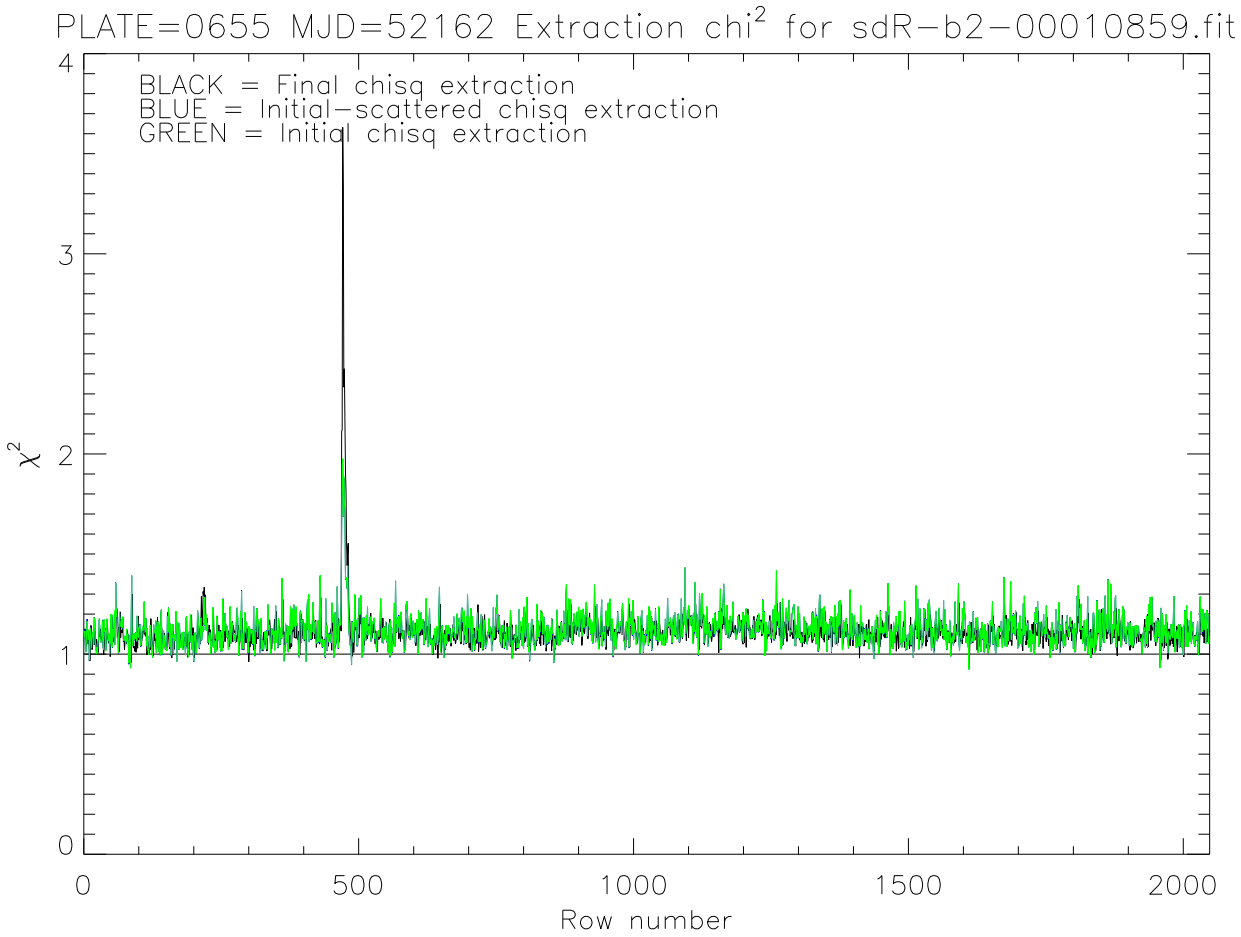

PLATE=0655 MJD=52162 Fiber−Flats for sdR−b2−00010854.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.584
Max value = 1.246
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 01:35:50 2008

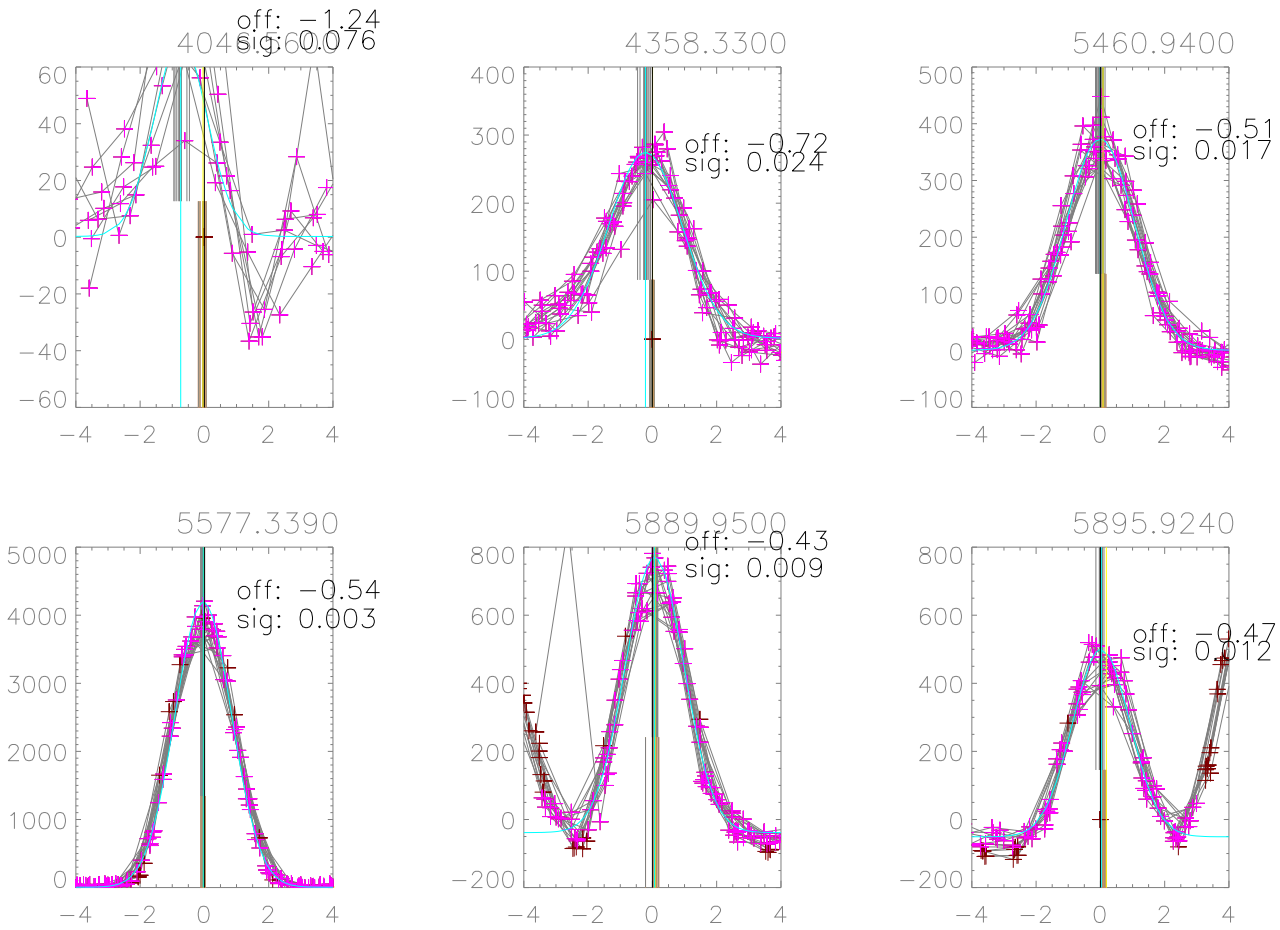

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-b2-00010859.f
12.4
10.5
8.7
0
Y [pix]
X [pix]
0
500
1000
1500
2000

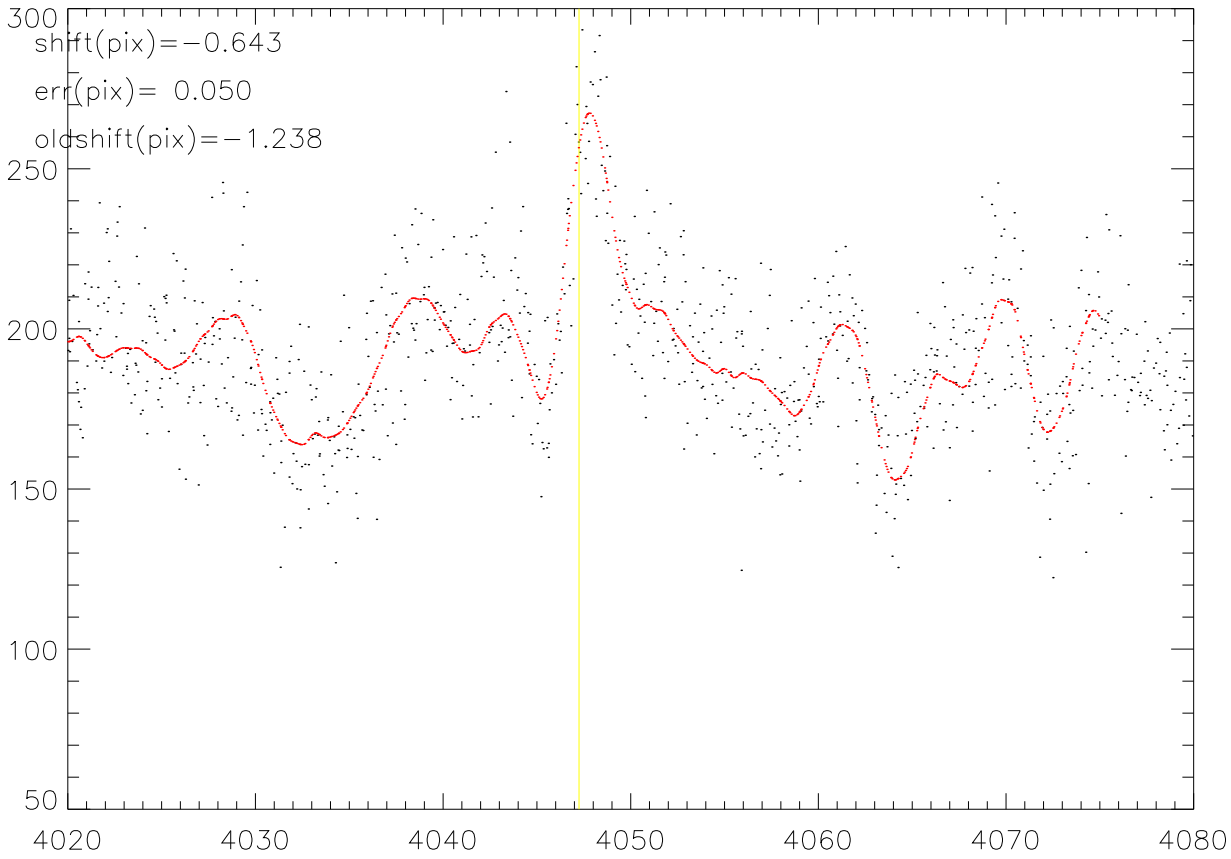

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-b2-00010859.f
Brightness [electrons/pix]
15
10
5
0
Error bars denote full range
Min value = 9.257
Max value = 12.503
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 01:36:41 2008

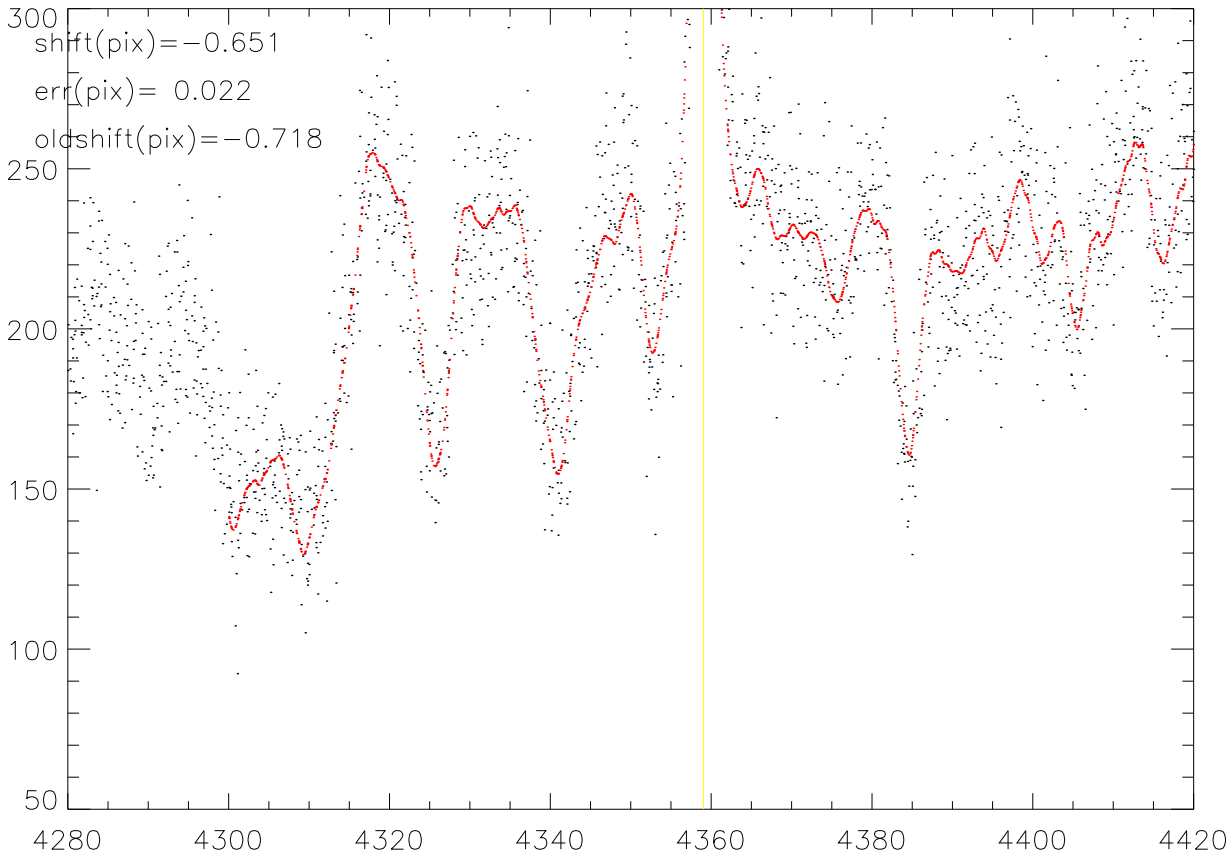

PLATE=0655 MJD=52162 Scattered Light on sdR-b2-00010859.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
5.64
6.73
7.82

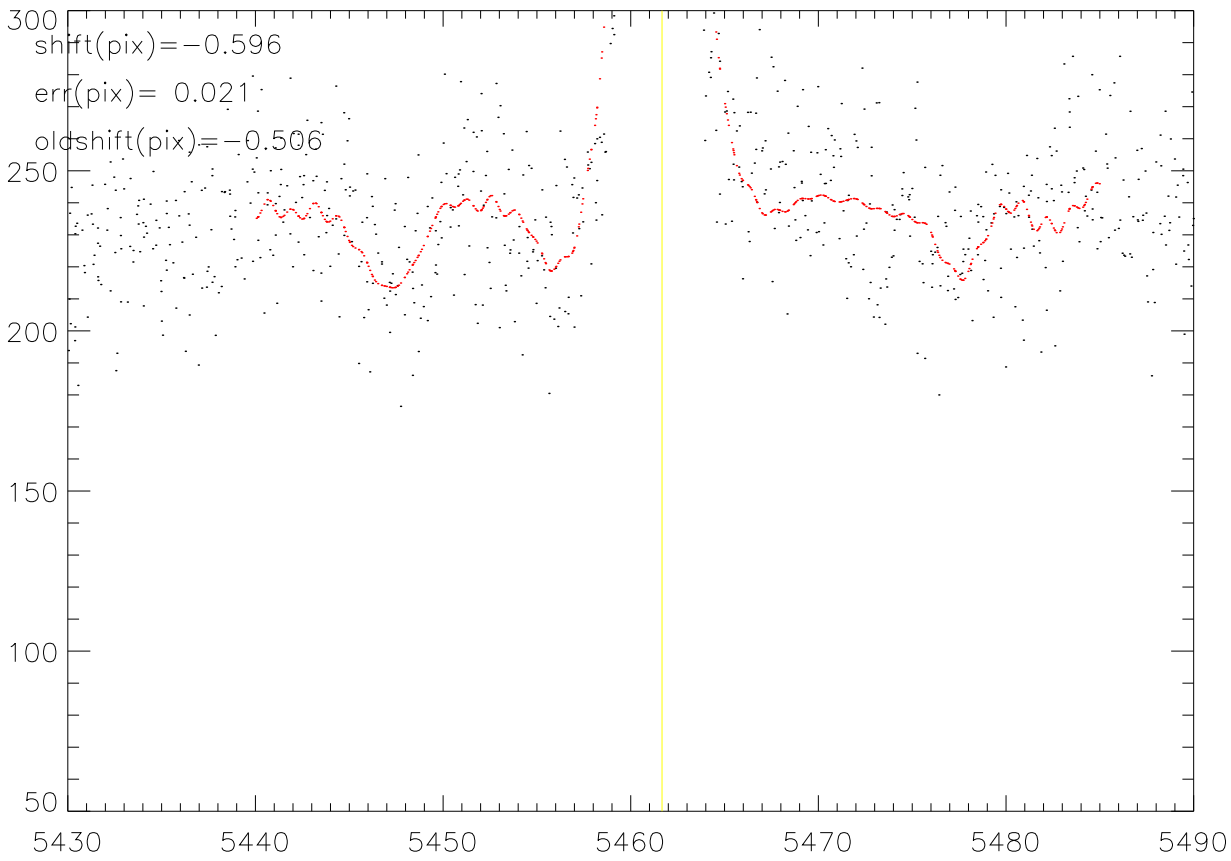

PLATE=0655 MJD=52162 Scattered Light on sdR-b2-00010859.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.625
Max value = 8.232
Tue Feb 26 01:39:35 2008

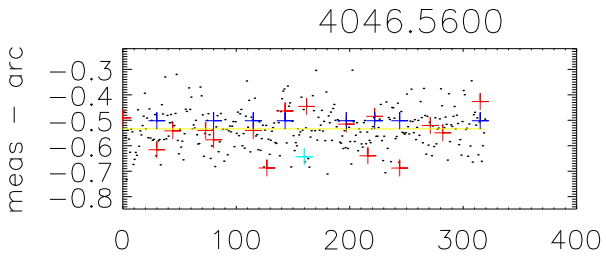

PLATE=0655 MJD=52162 Extraction chi^2 for sdR-b2-00010859.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

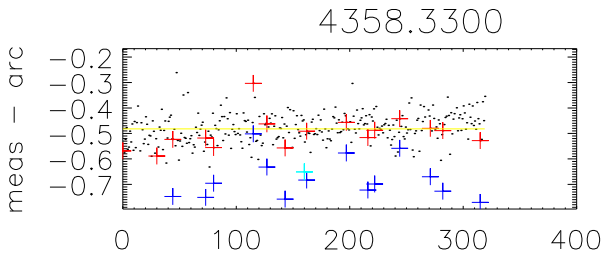

4046.5600
off: −1.24
sig: 0.076
4358.3300
off: −0.72
sig: 0.024
5460.9400
off: −0.51
sig: 0.017
5577.3390
off: −0.54
sig: 0.003
5889.9500
off: −0.43
sig: 0.009
5895.9240
off: −0.47
sig: 0.012

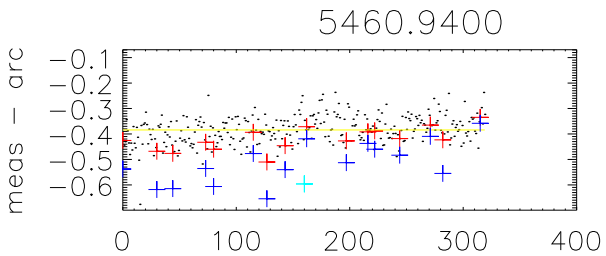

shift(pix)=−0.643
err(pix)= 0.050
oldshift(pix)=−1.238
300
250
200
150
100
50
4020
4030
4040
4050
4060
4070
4080

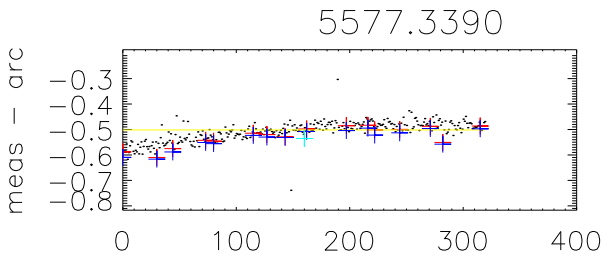

shift(pix)=−0.651
err(pix)= 0.022
oldshift(pix)=−0.718
300
250
200
150
100
50
4280
4300
4320
4340
4360
4380
4400
4420

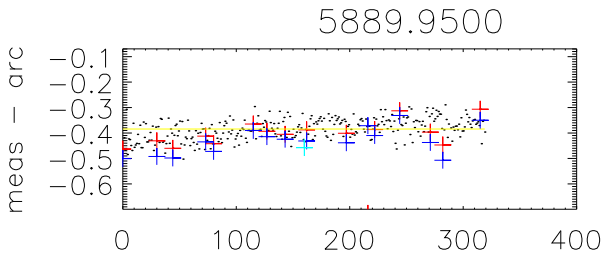

shift(pix)=−0.596
err(pix)= 0.021
oldshift(pix)=−0.506
300
250
200
150
100
50
5430
5440
5450
5460
5470
5480
5490

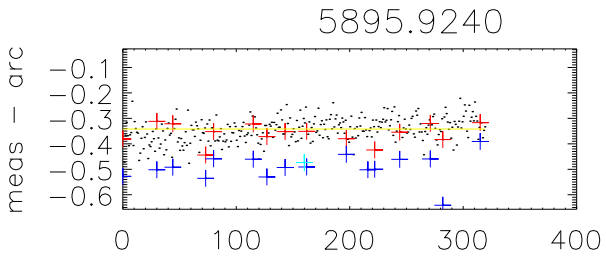

4046.5600
meas − arc
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
0
100
200
300
400

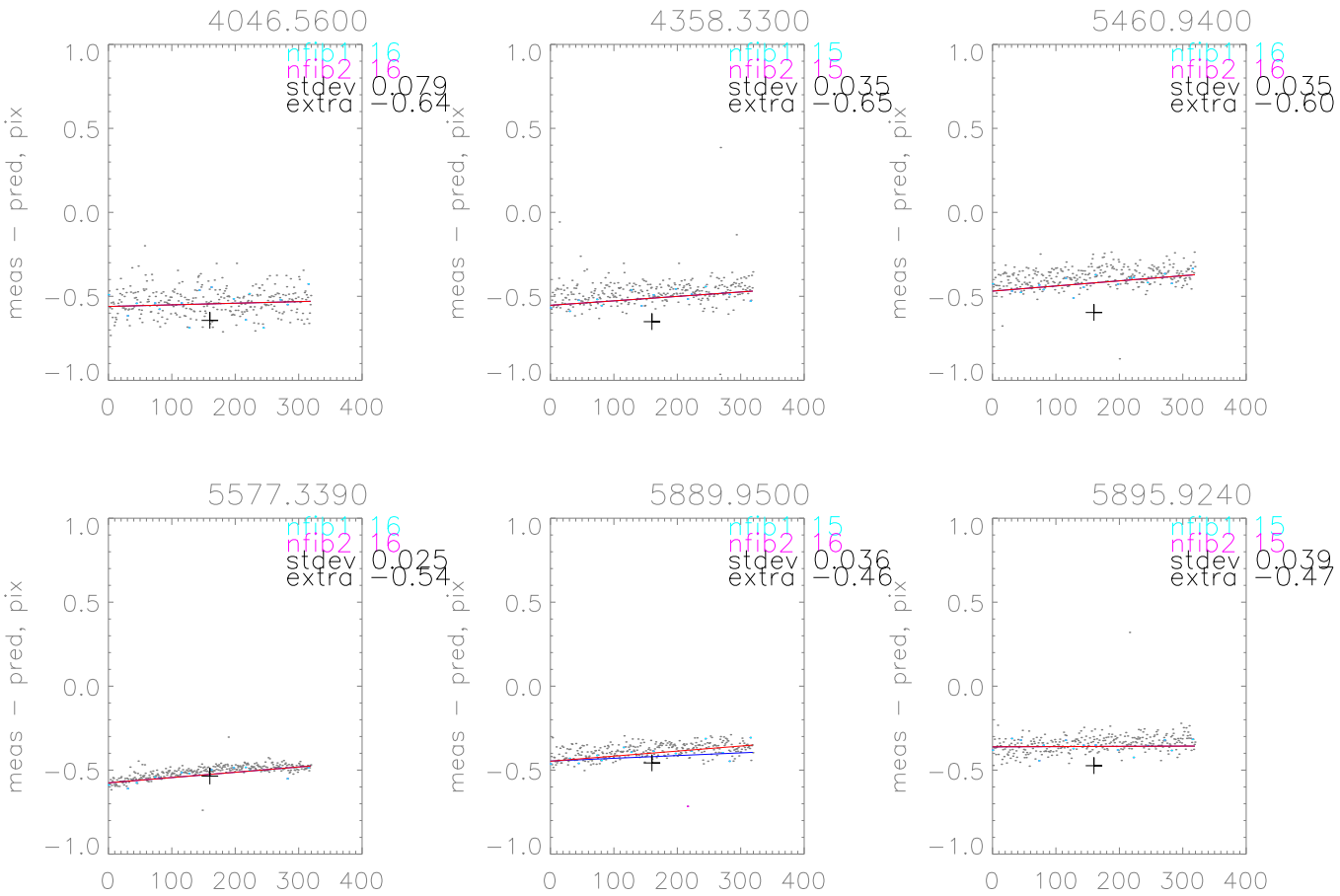

4358.3300
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

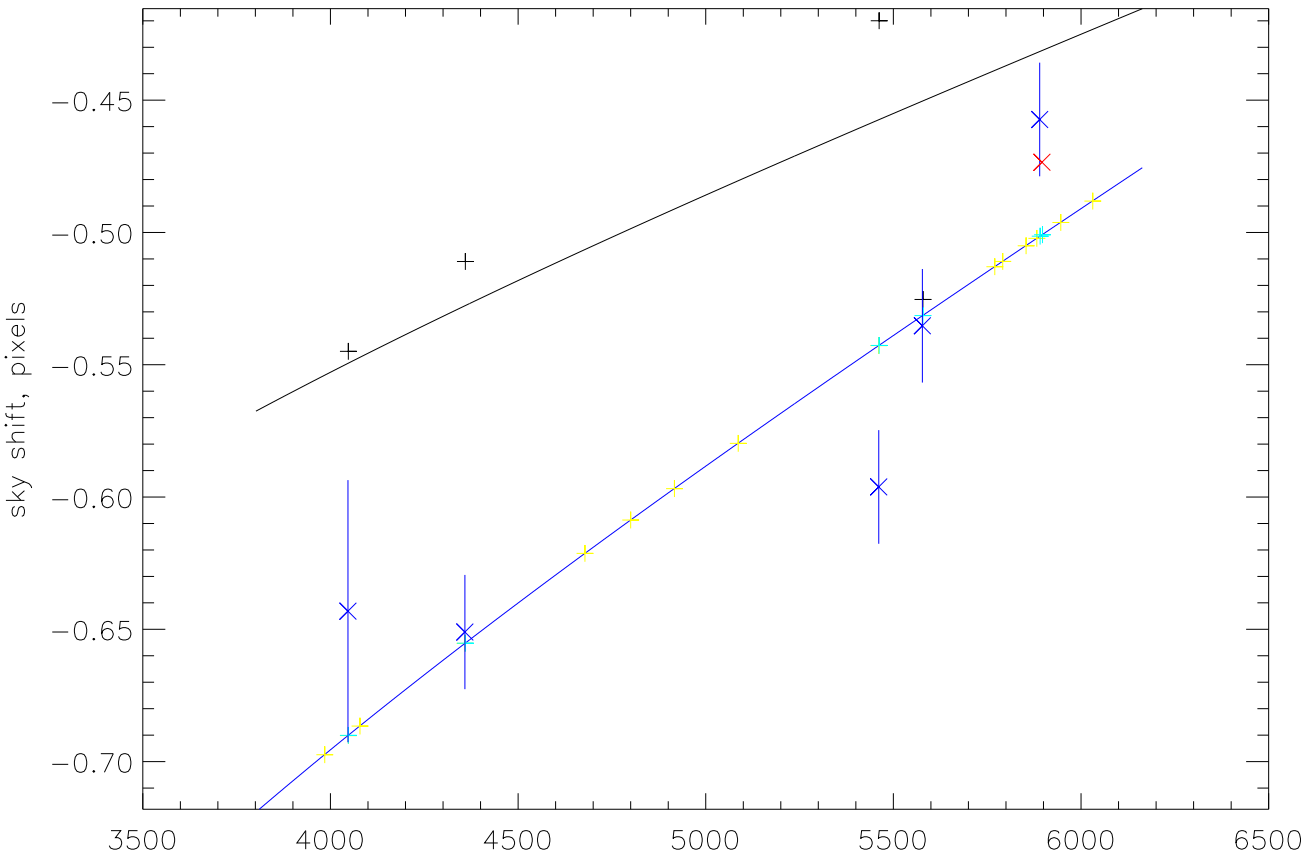

5460.9400
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

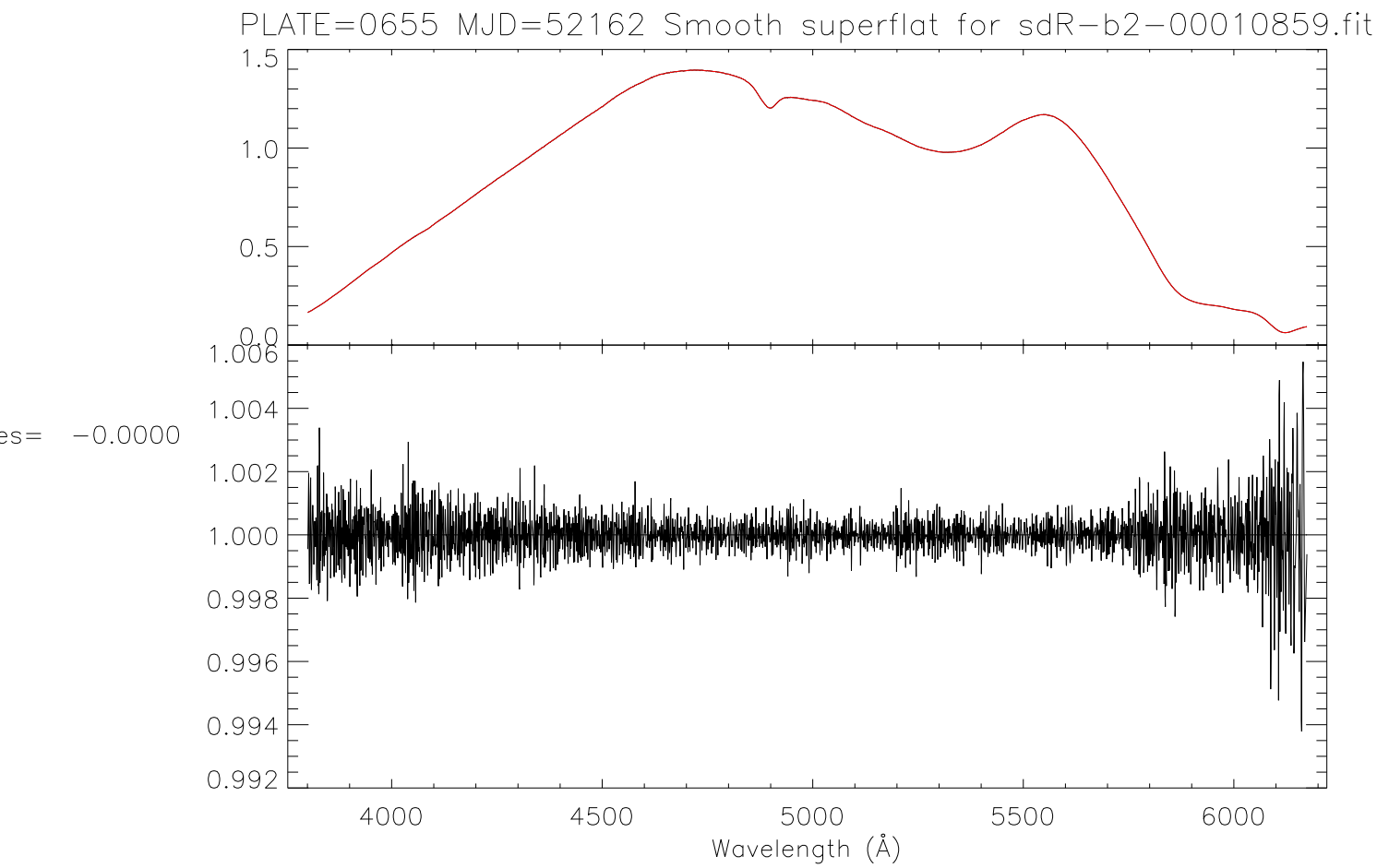

5577.3390
meas − arc
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
0
100
200
300
400


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

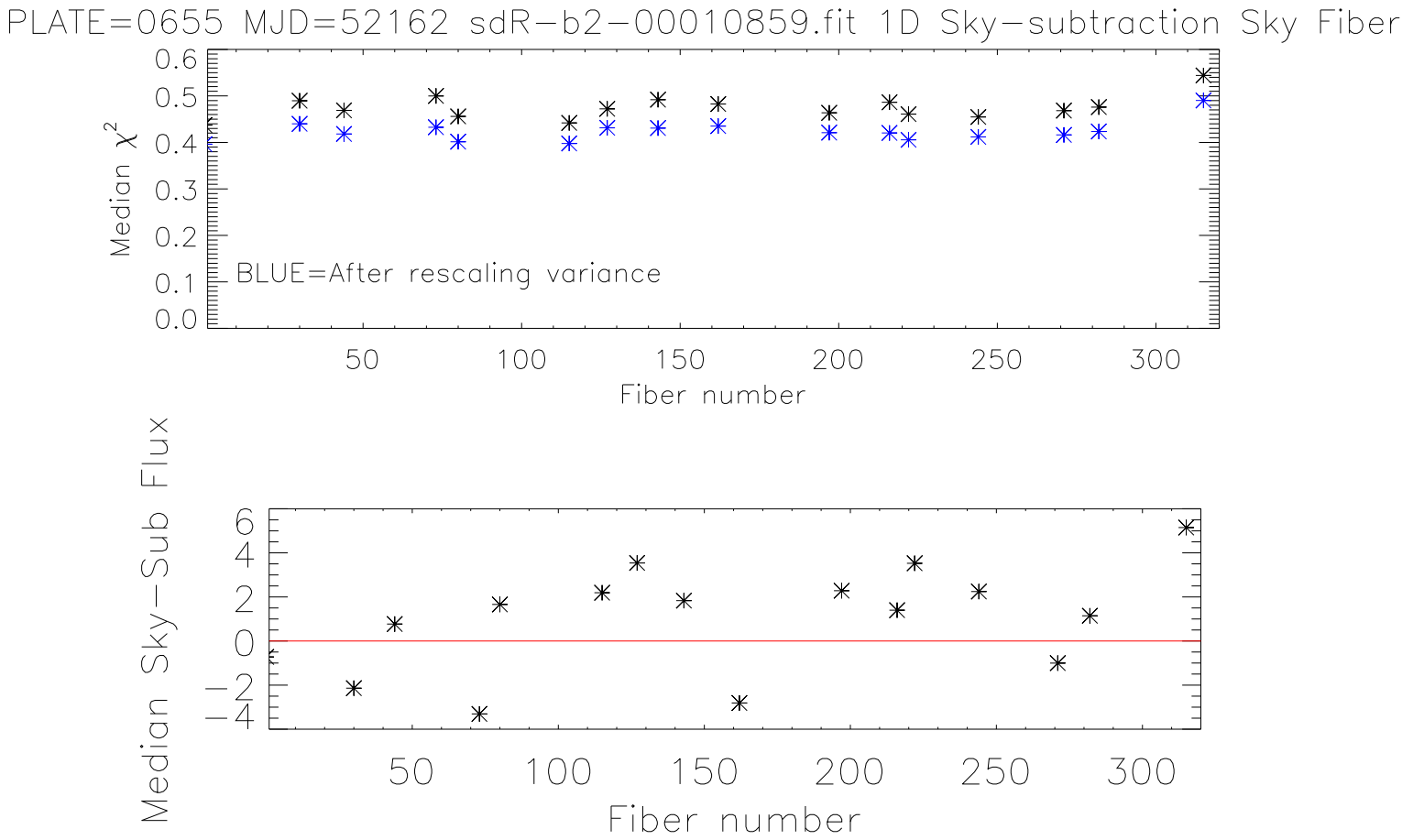

5895.9240
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

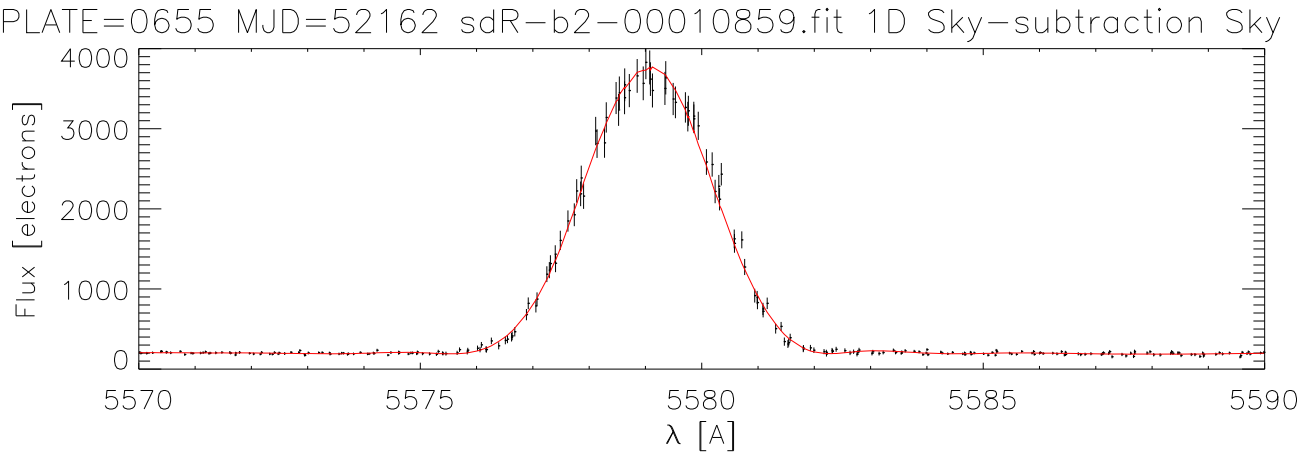

4046.5600
nfib1 16
nfib2 16
stdev 0.079
extra −0.64
4358.3300
nfib1 15
nfib2 15
stdev 0.035
extra −0.65
5460.9400
nfib1 16
nfib2 16
stdev 0.035
extra −0.60
5577.3390
nfib1 16
nfib2 16
stdev 0.025
extra −0.54
5889.9500
nfib1 15
nfib2 16
stdev 0.036
extra −0.46
5895.9240
nfib1 15
nfib2 15
stdev 0.039
extra −0.47
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

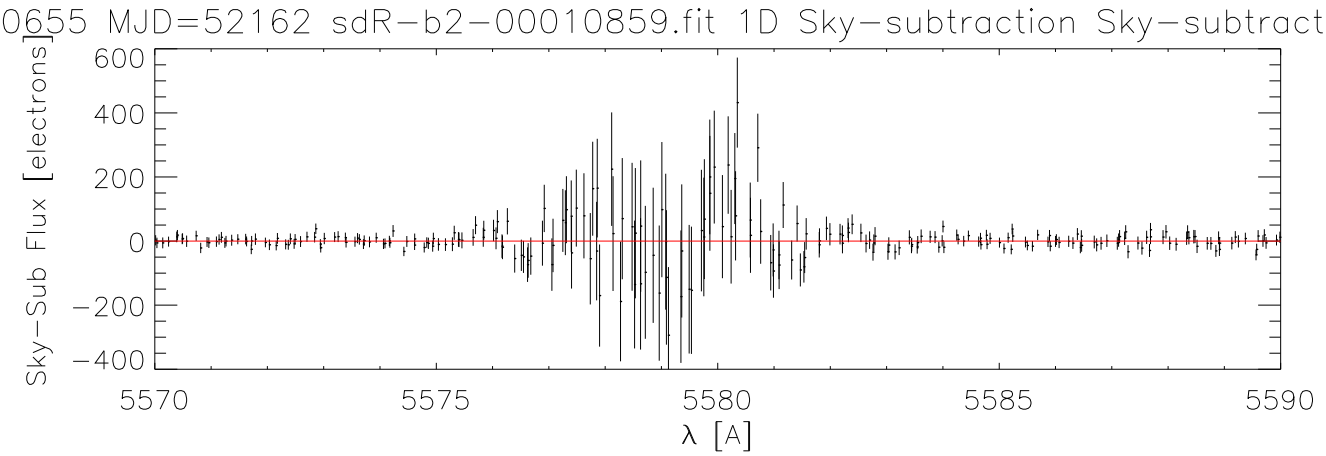

sky shift, pixels
−0.45
−0.50
−0.55
−0.60
−0.65
−0.70
3500
4000
4500
5000
5500
6000
6500

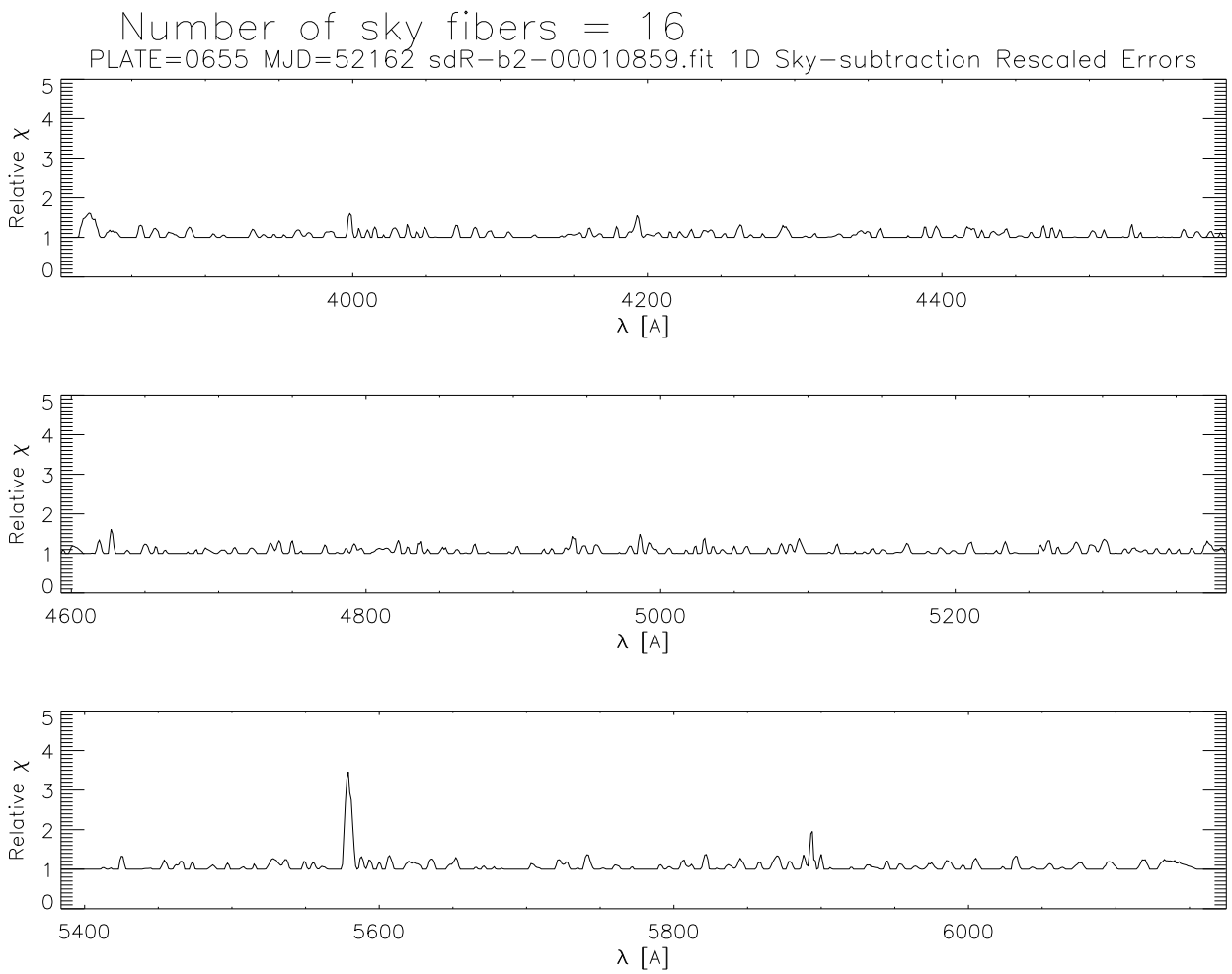

PLATE=0655 MJD=52162 Smooth superflat for sdR-b2-00010859.fit
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
4000
4500
5000
5500
6000
Wavelength (Å)

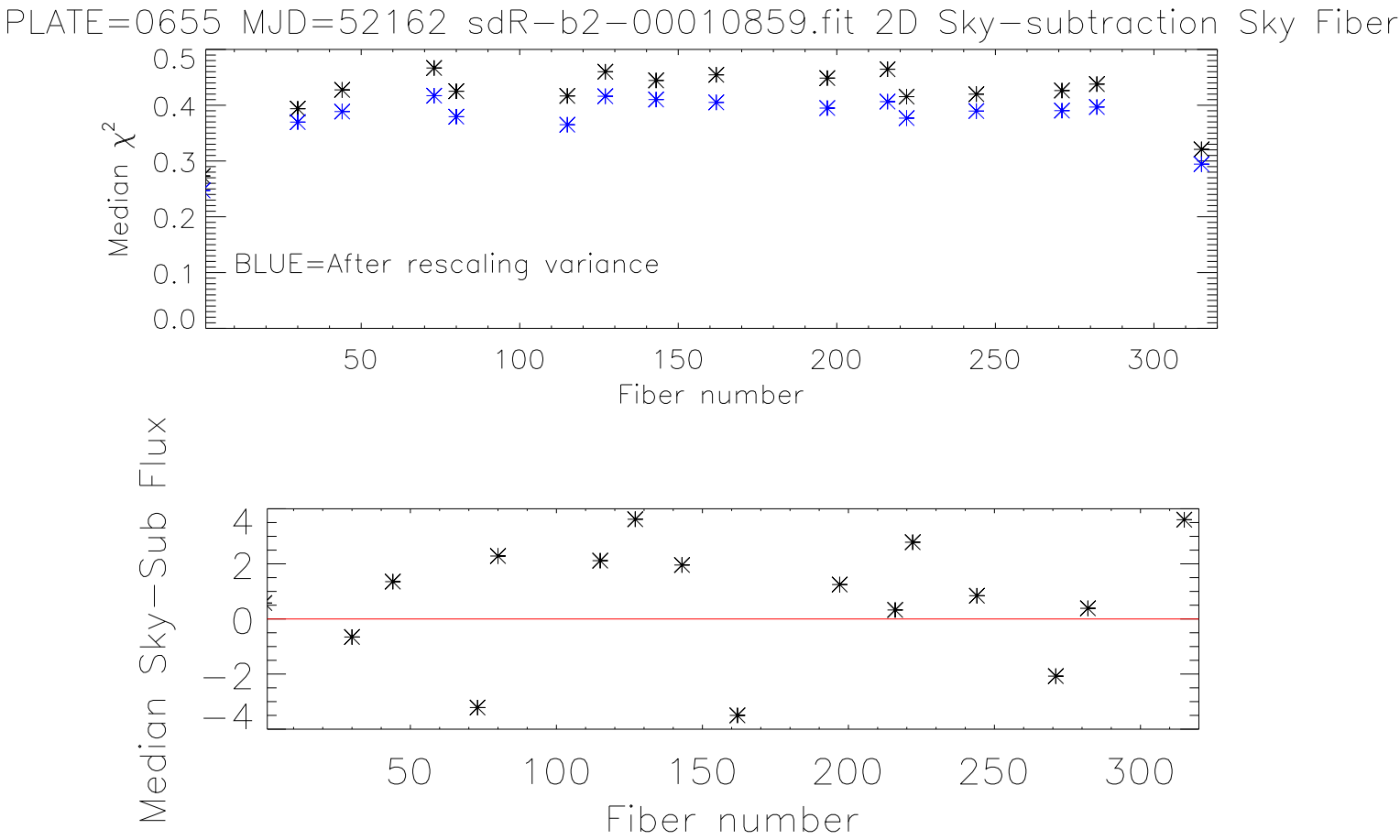
es= −0.0000

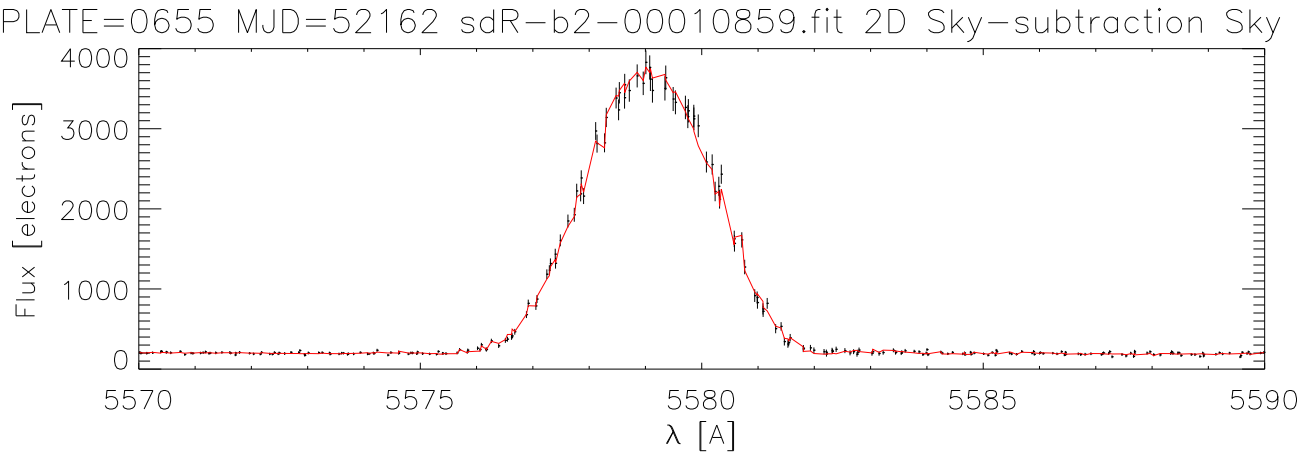

PLATE=0655 MJD=52162 sdR-b2-00010859.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

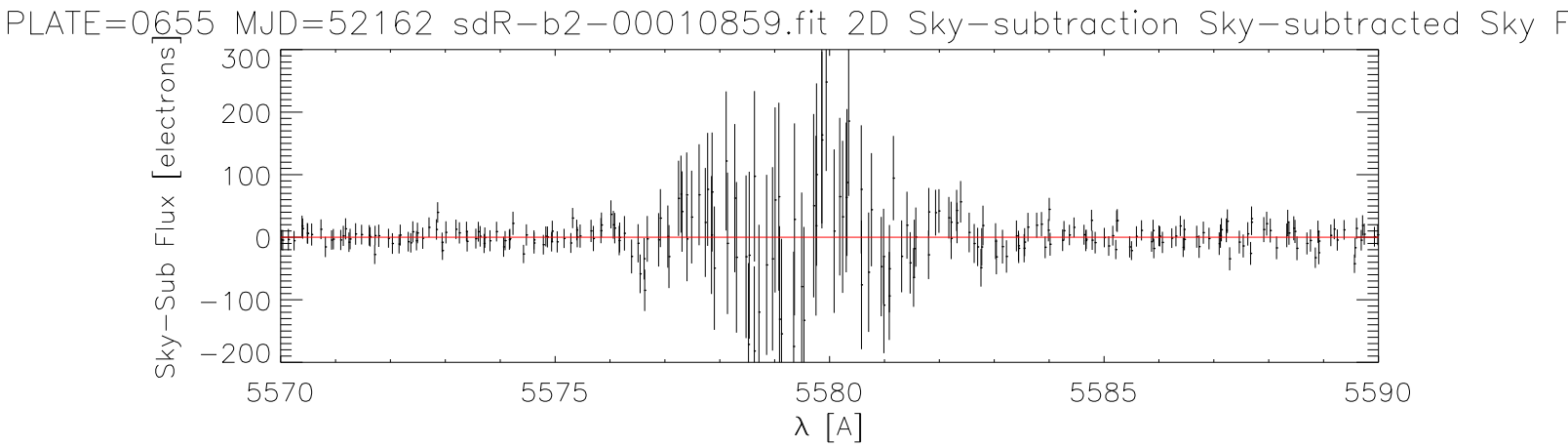

PLATE=0655 MJD=52162 sdR-b2-00010859.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

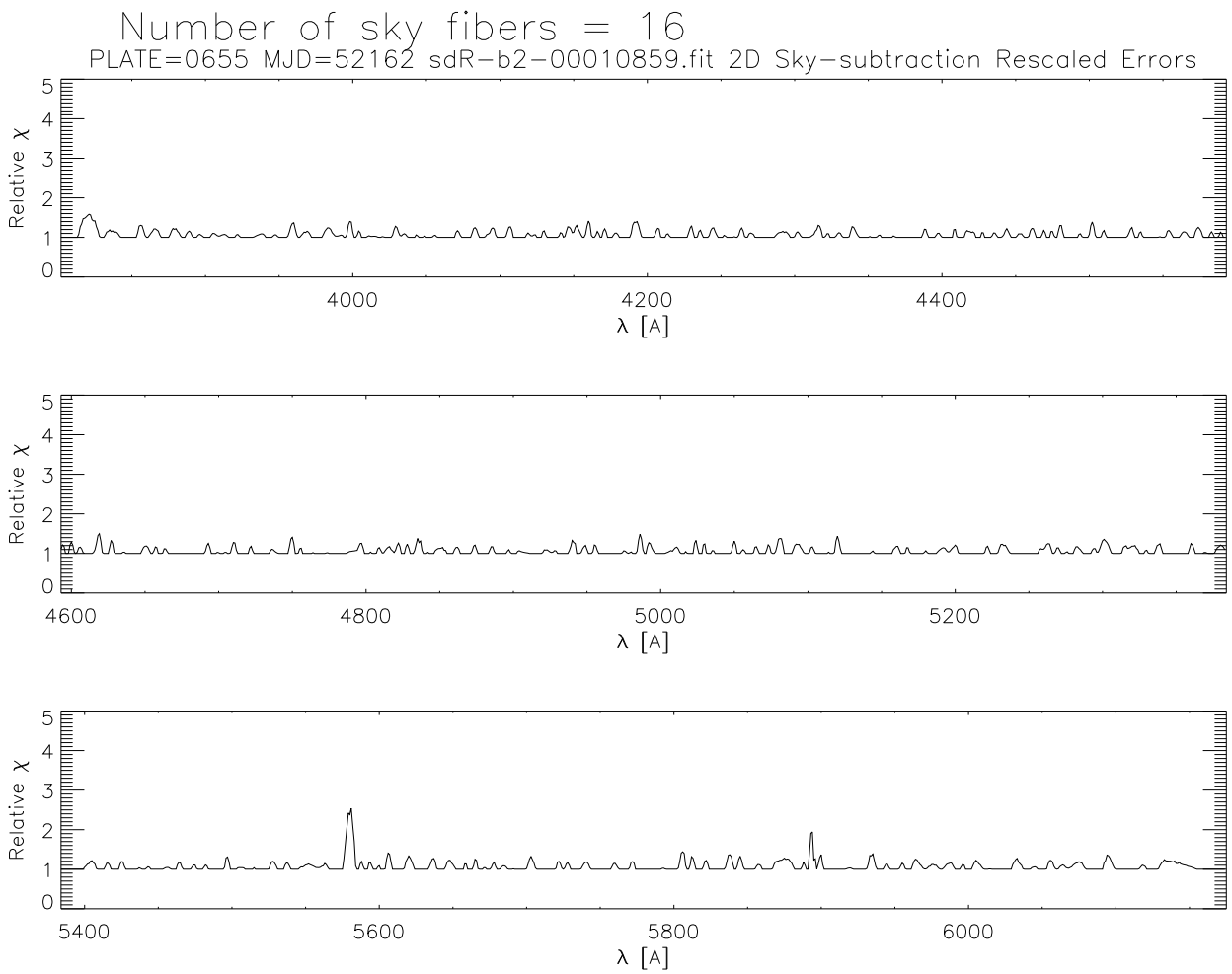

PLATE=0655 MJD=52162 sdR-b2-00010859.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

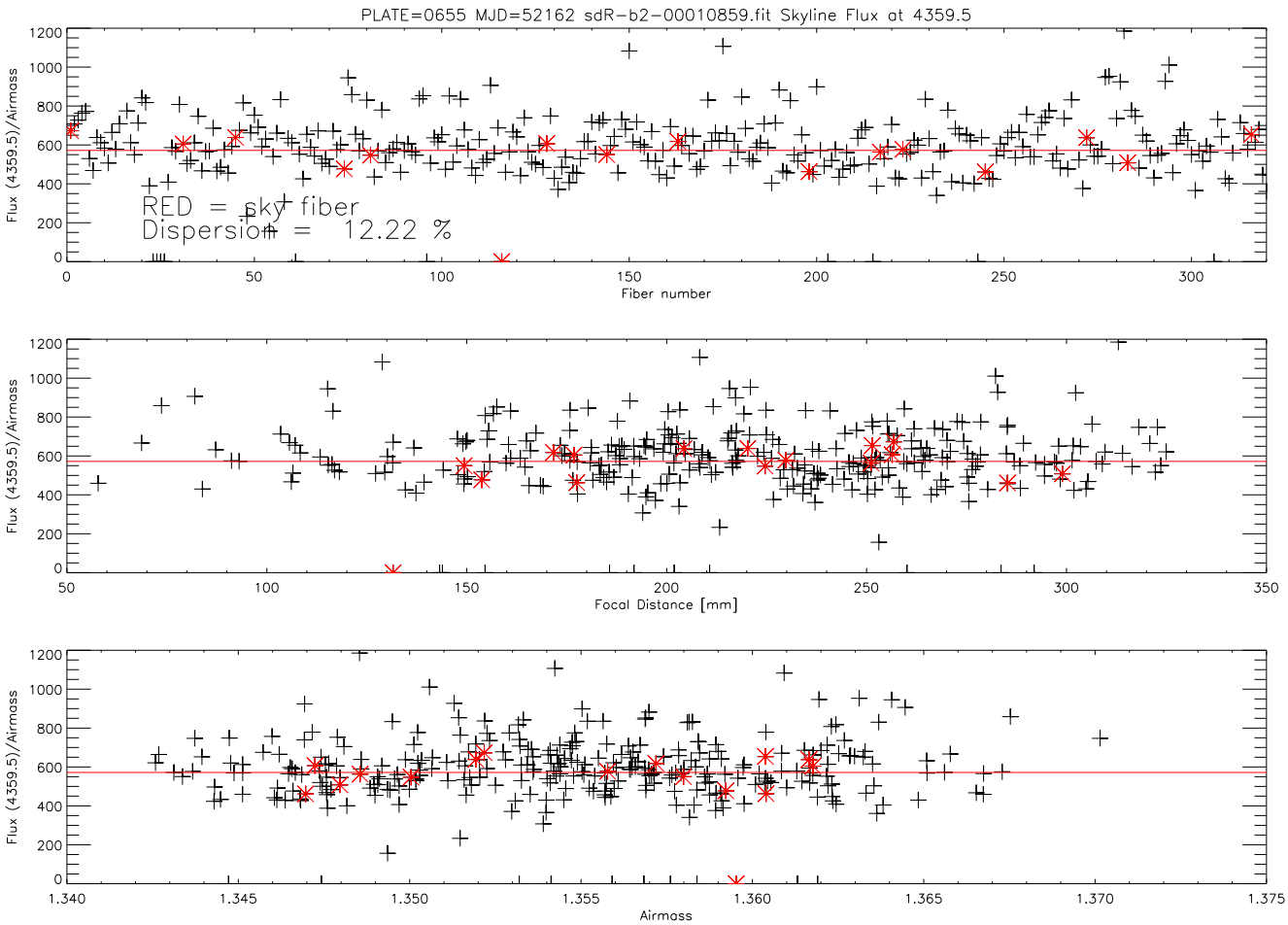

Number of sky fibers = 16
PLATE=0655 MJD=52162 sdR-b2-00010859.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

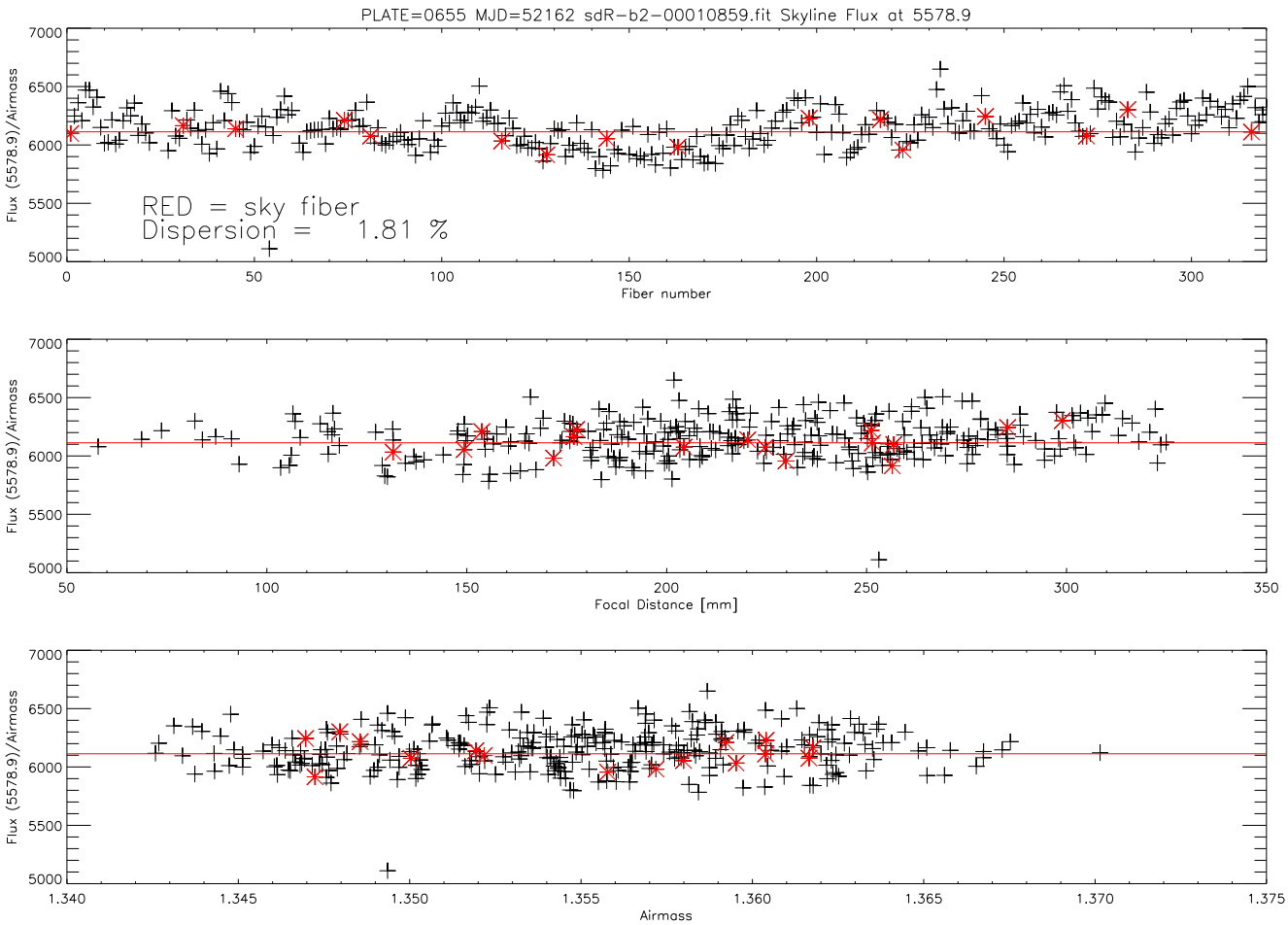

PLATE=0655 MJD=52162 sdR-b2-00010859.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

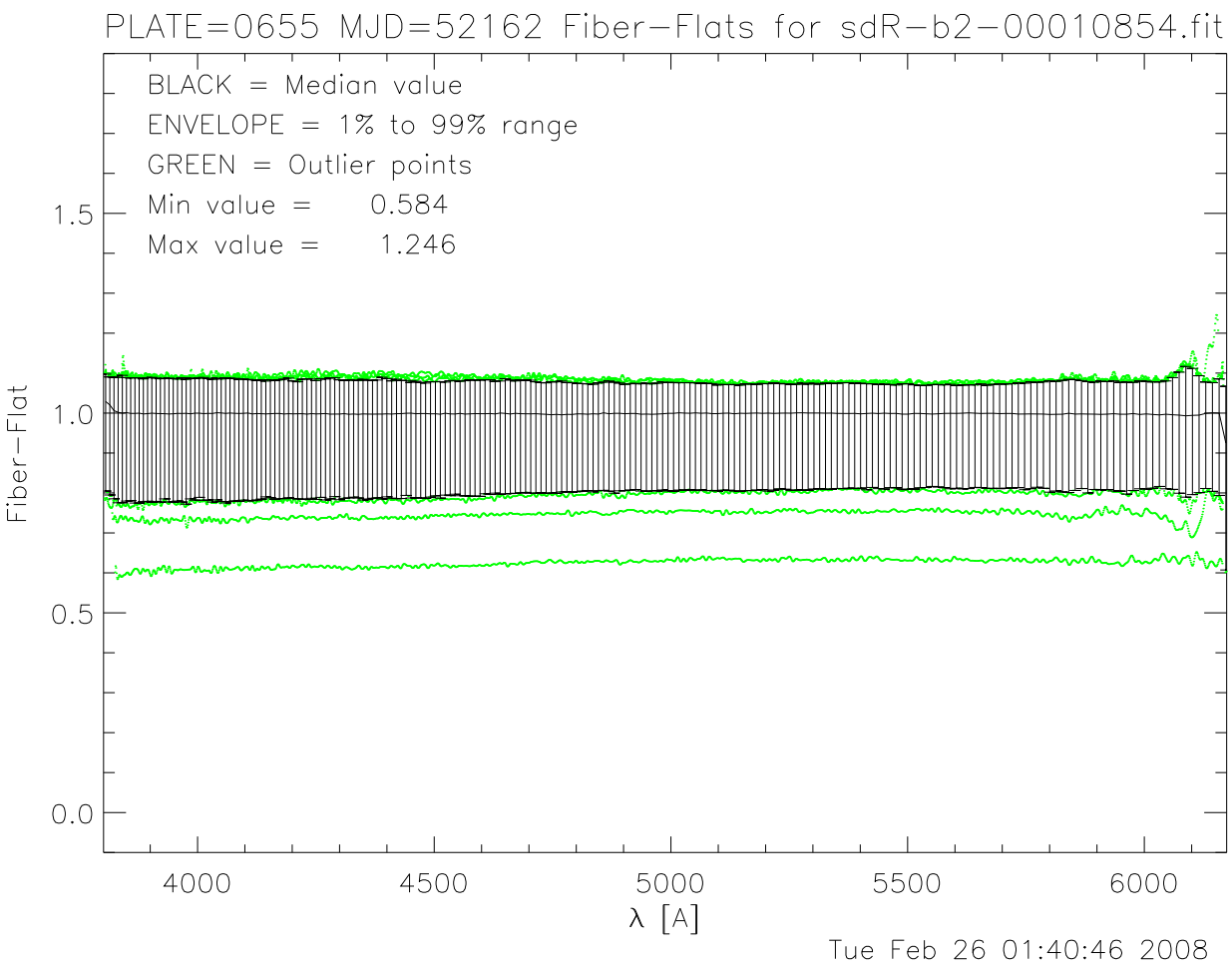

PLATE=0655 MJD=52162 sdR-b2-00010859.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

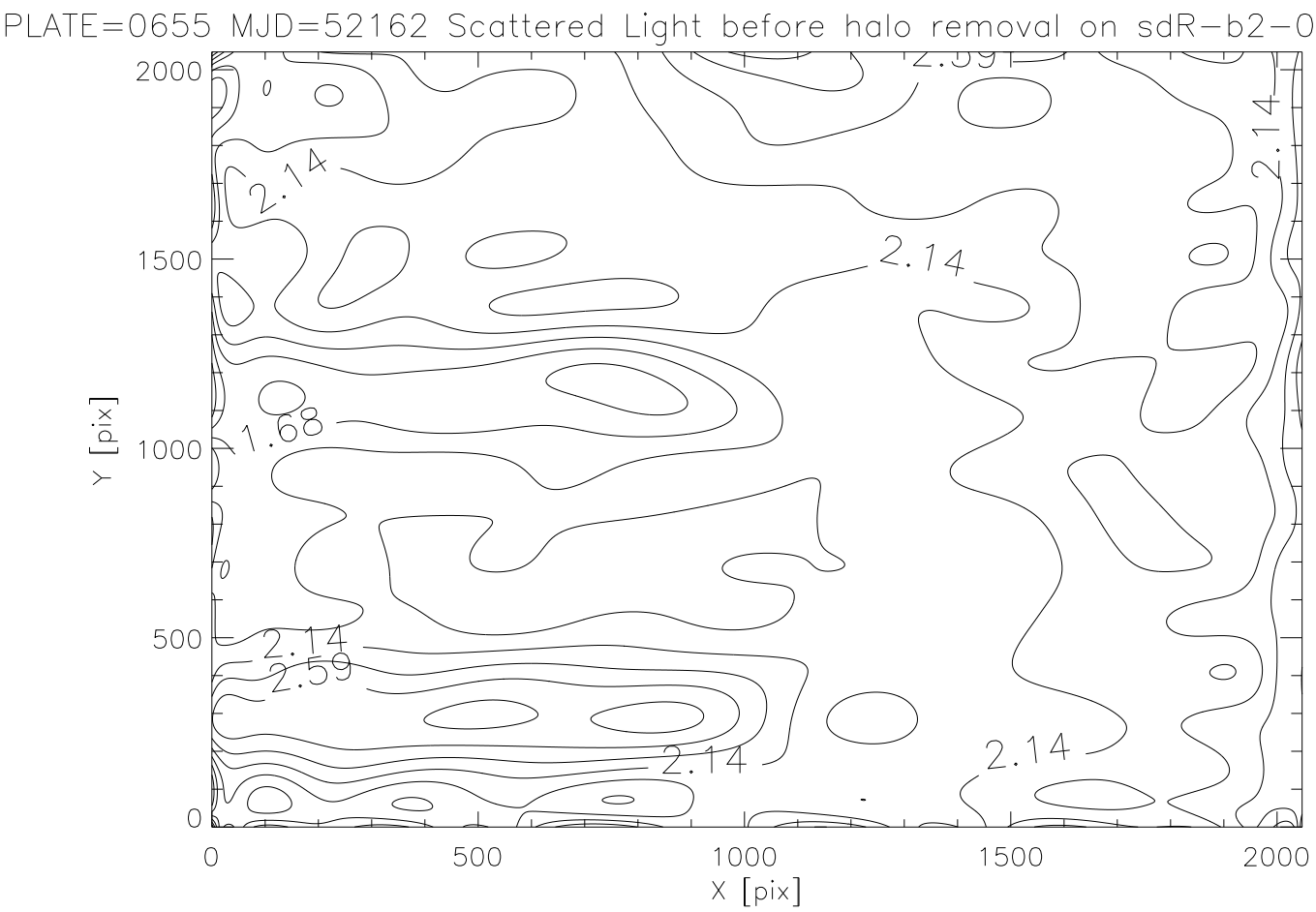

PLATE=0655 MJD=52162 sdR-b2-00010859.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

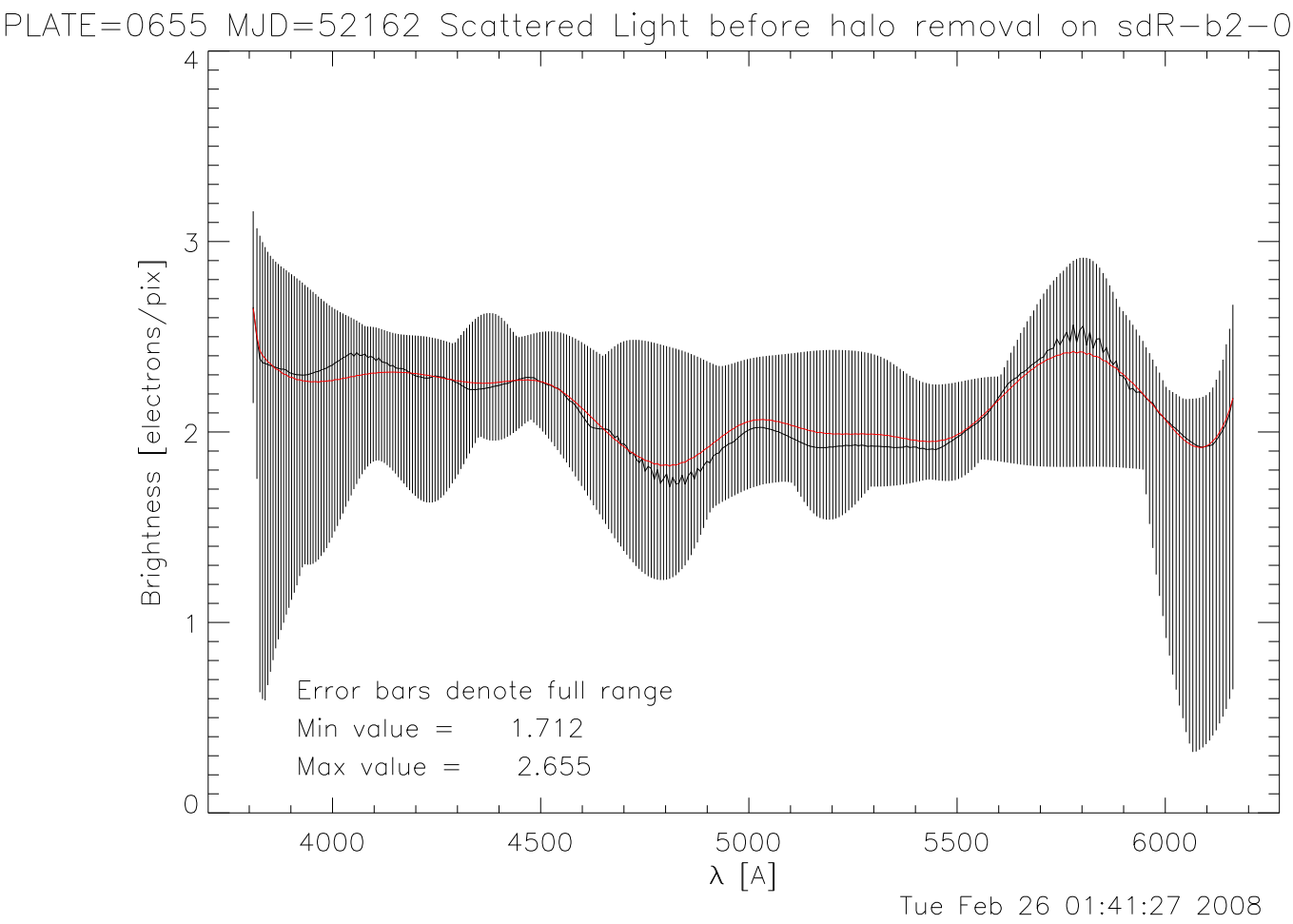

Number of sky fibers = 16
PLATE=0655 MJD=52162 sdR-b2-00010859.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

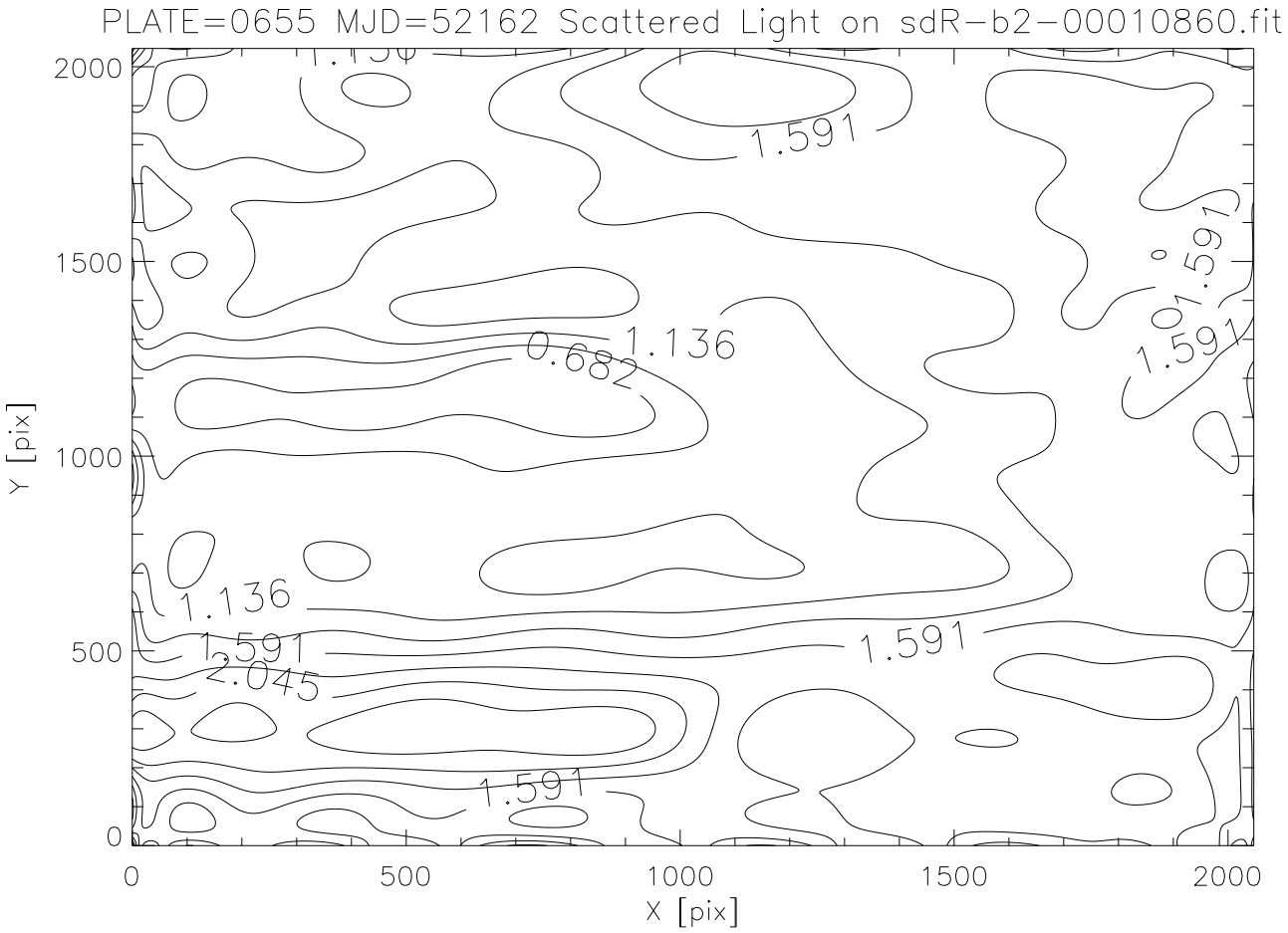

PLATE=0655 MJD=52162 sdR-b2-00010859.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 12.22 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

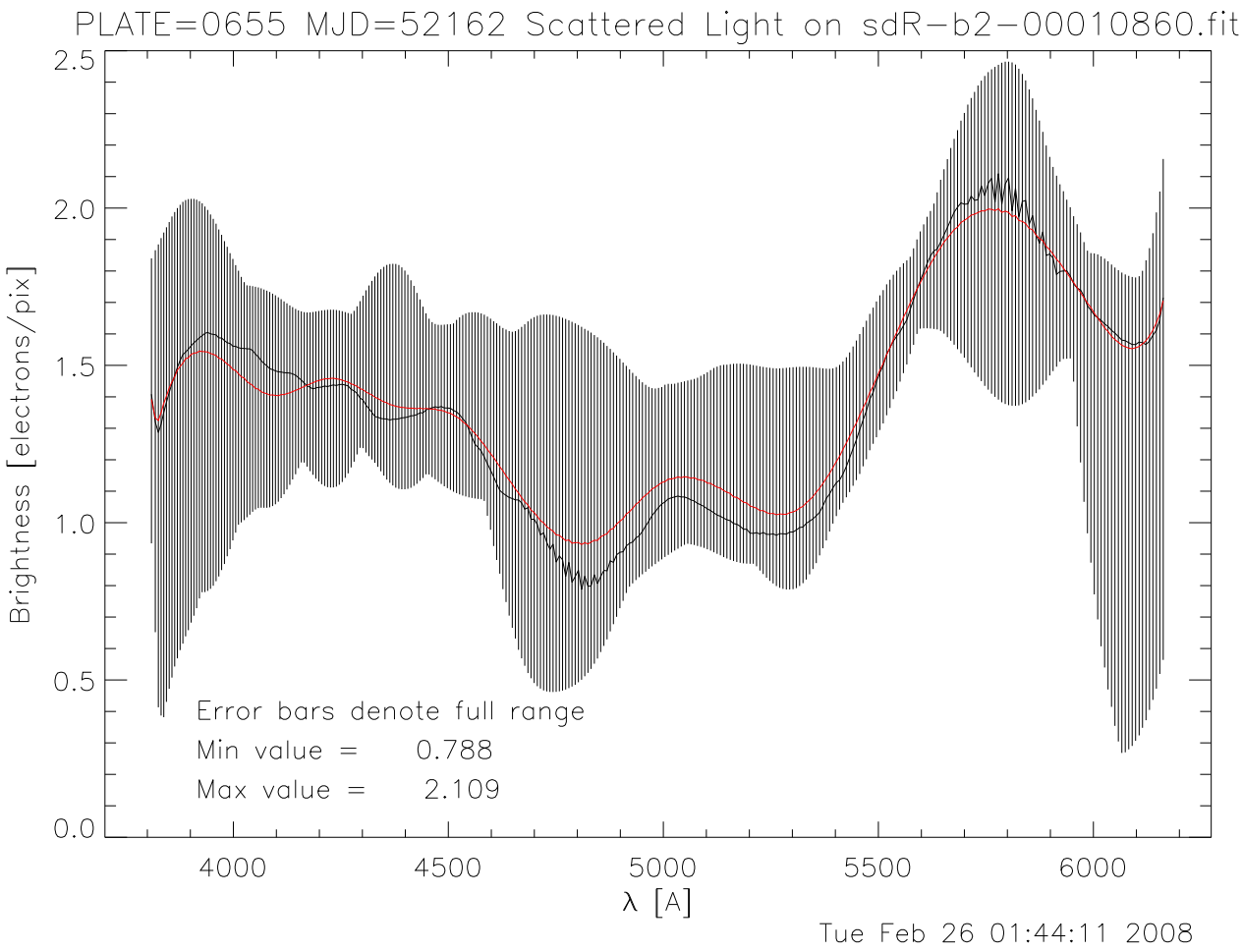

PLATE=0655 MJD=52162 sdR-b2-00010859.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.81 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

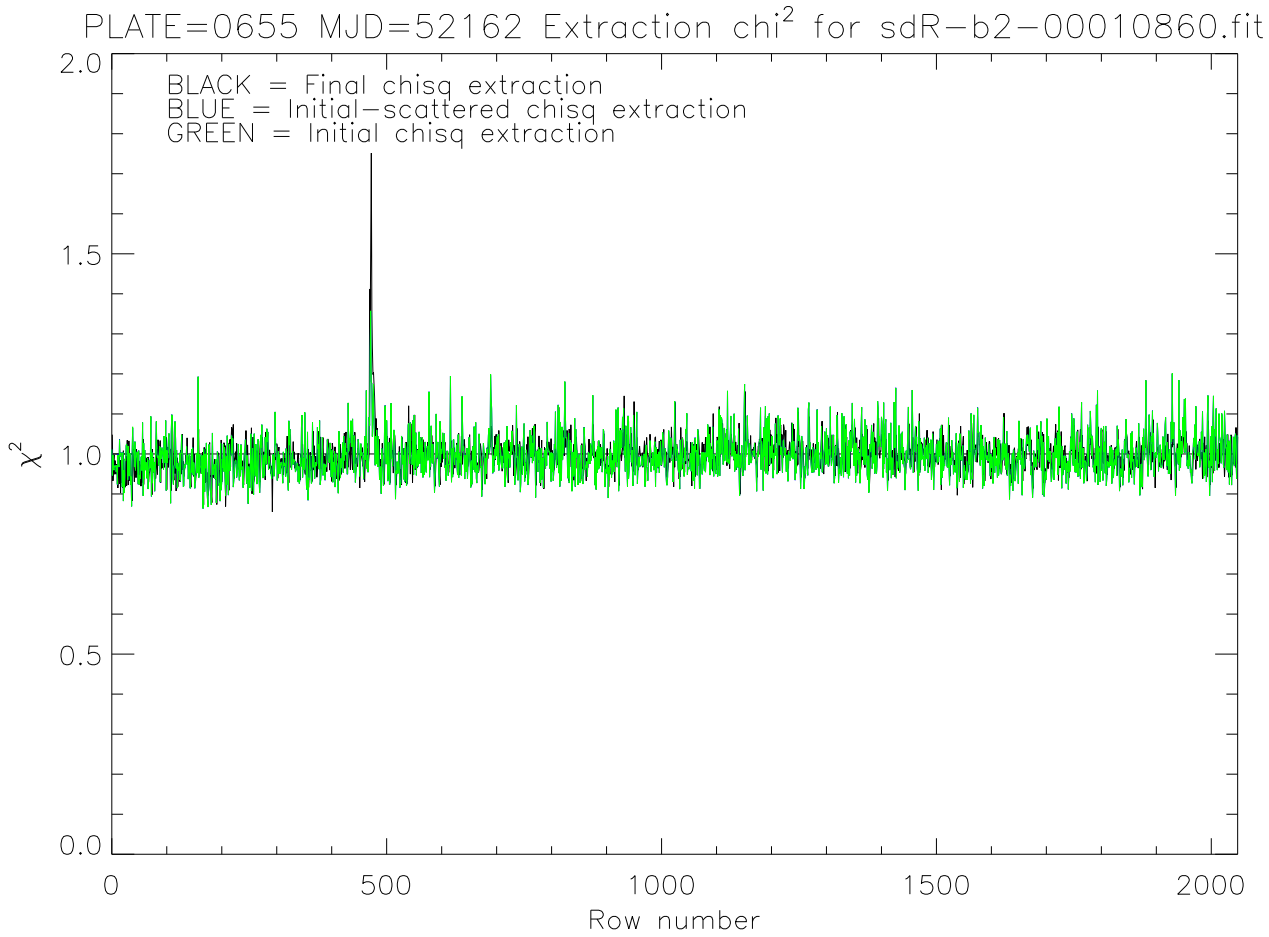

PLATE=0655 MJD=52162 Fiber−Flats for sdR−b2−00010854.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.584
Max value = 1.246
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 01:40:46 2008

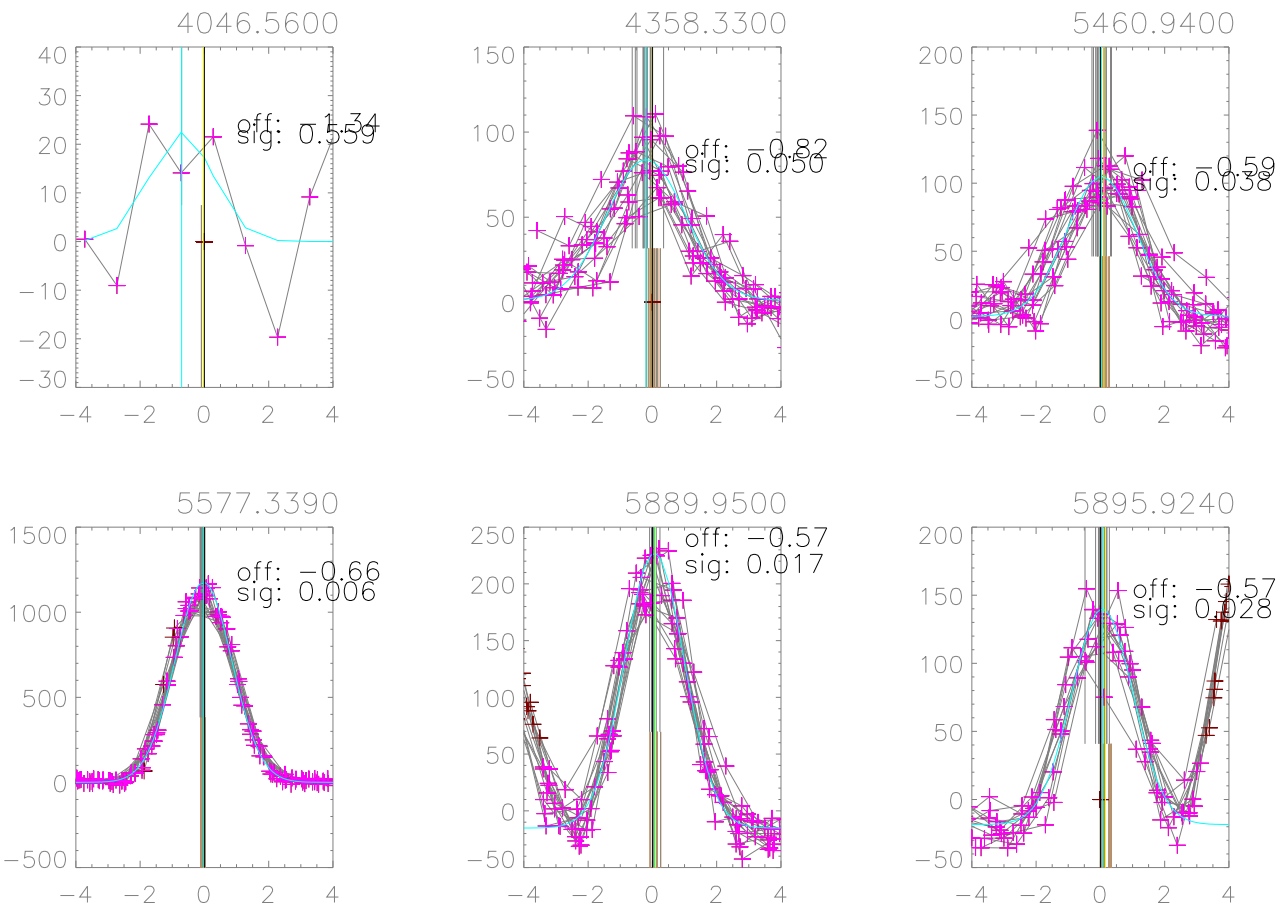

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-b2-00010860.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
2.14
1.68
2.59

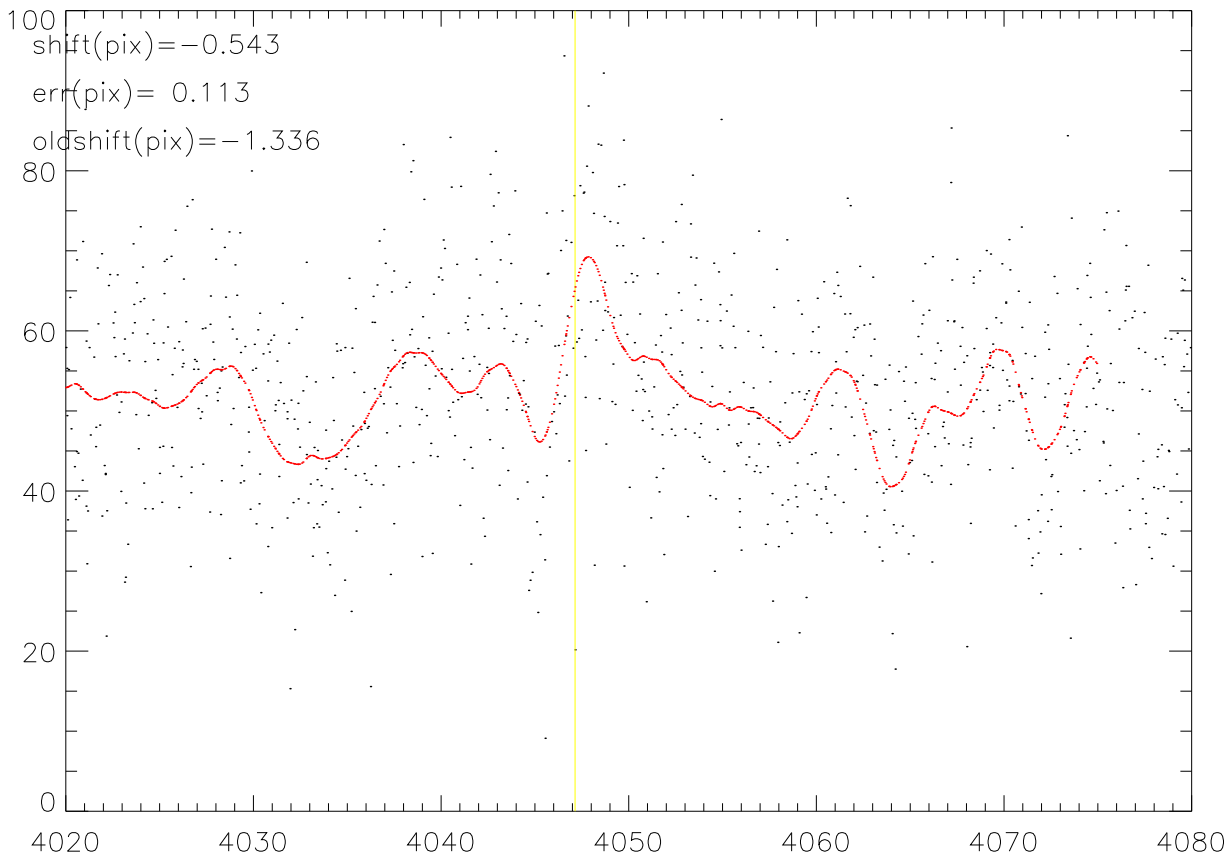

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-b2-00010860.f
Brightness [electrons/pix]
0
1
2
3
4
Error bars denote full range
Min value = 1.712
Max value = 2.655
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 01:41:27 2008

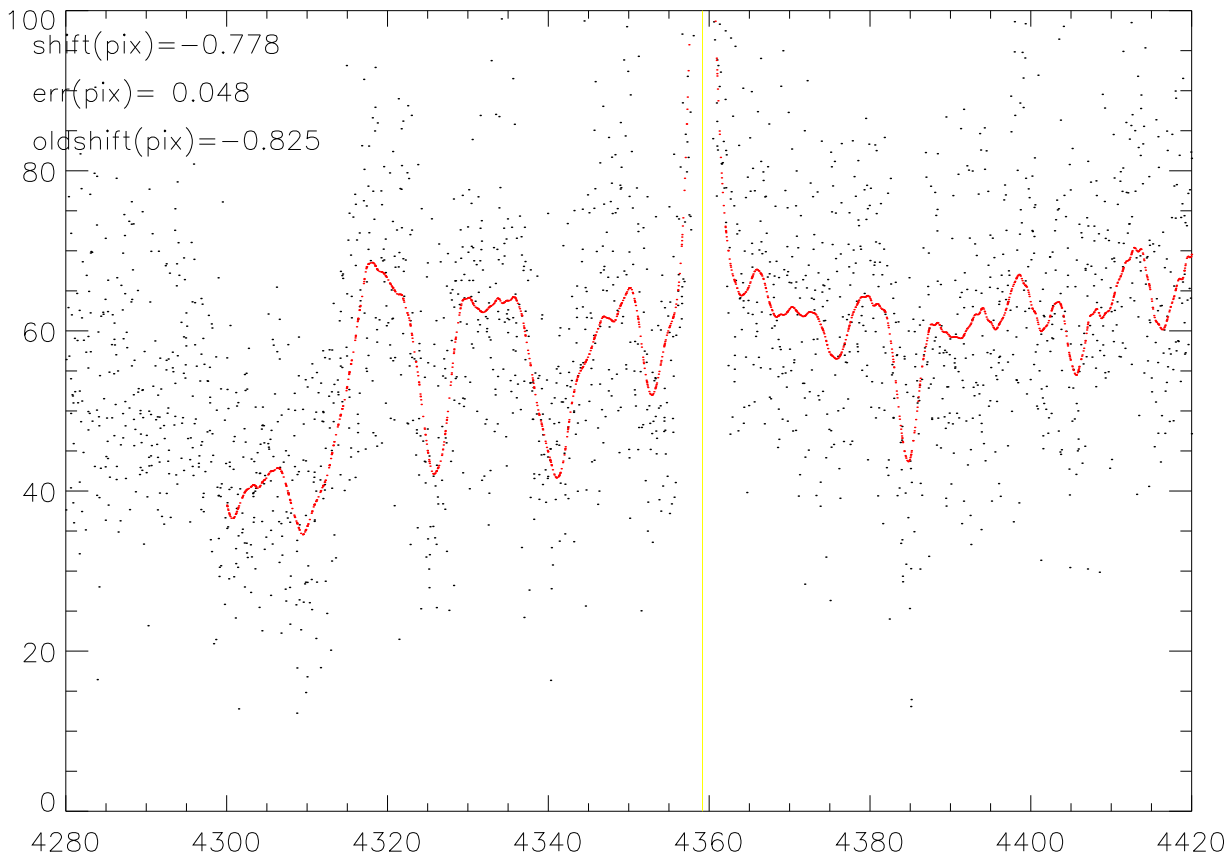

PLATE=0655 MJD=52162 Scattered Light on sdR-b2-00010860.fit
1.591
1.591
1.591
1.591
0.682
1.136
1.136
1.591
1.591
2.045
1.591
Y [pix]
X [pix]
0
500
1000
1500
2000

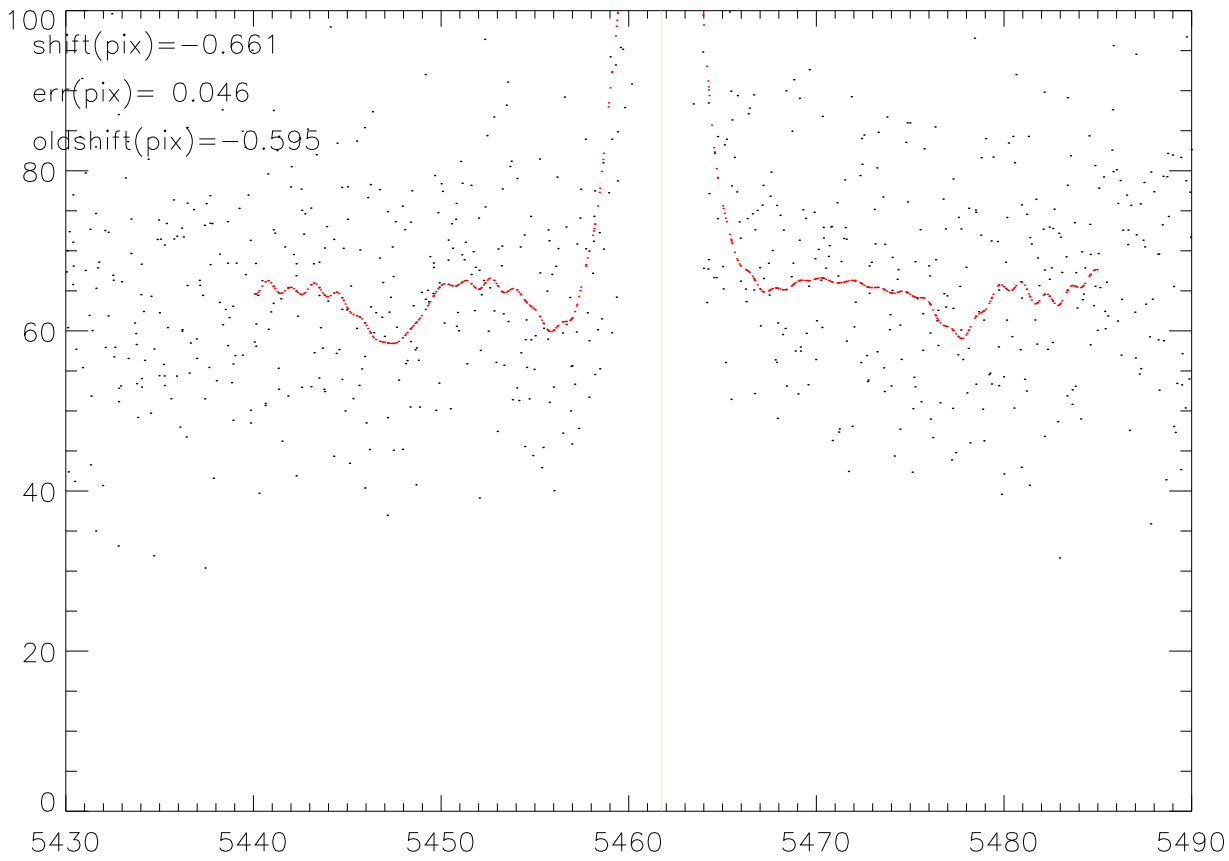

PLATE=0655 MJD=52162 Scattered Light on sdR-b2-00010860.fit
Brightness [electrons/pix]
2.5
2.0
1.5
1.0
0.5
0.0
Error bars denote full range
Min value = 0.788
Max value = 2.109
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 01:44:11 2008

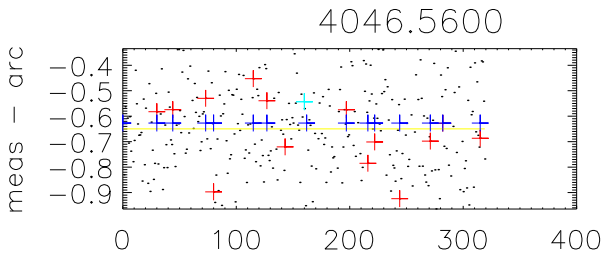

PLATE=0655 MJD=52162 Extraction chi^2 for sdR-b2-00010860.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

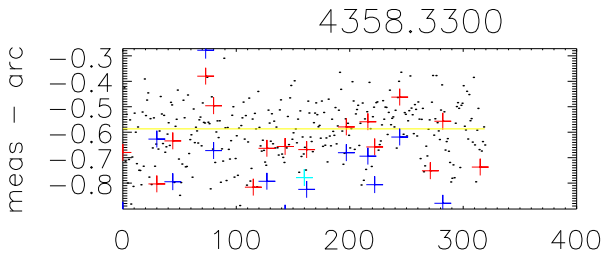

4046.5600
off: −1.34
sig: 0.559
4358.3300
off: −0.82
sig: 0.050
5460.9400
off: −0.59
sig: 0.038
5577.3390
off: −0.66
sig: 0.006
5889.9500
off: −0.57
sig: 0.017
5895.9240
off: −0.57
sig: 0.028

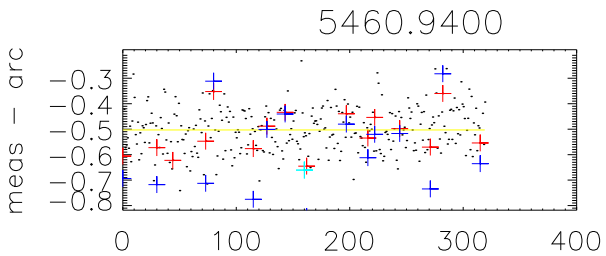

shift(pix)=−0.543
err(pix)= 0.113
oldshift(pix)=−1.336
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

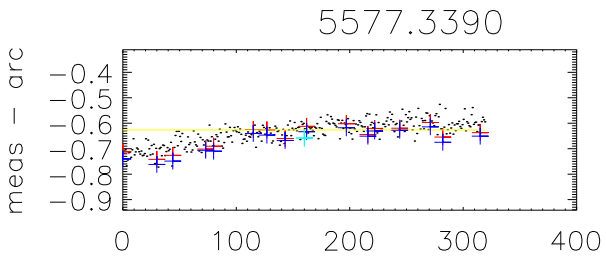

shift(pix)=−0.778
err(pix)= 0.048
oldshift(pix)=−0.825
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

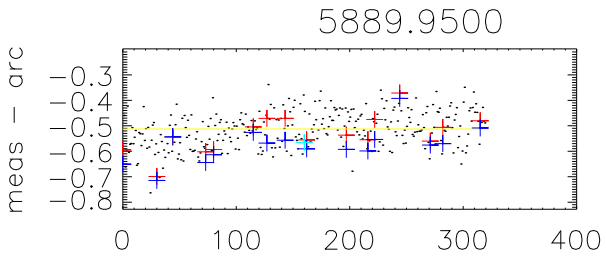

shift(pix)=−0.661
err(pix)= 0.046
oldshift(pix)=−0.595
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

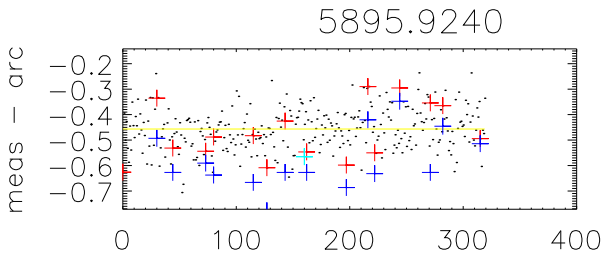

4046.5600
meas − arc
−0.4
−0.5
−0.6
−0.7
−0.8
−0.9
0
100
200
300
400

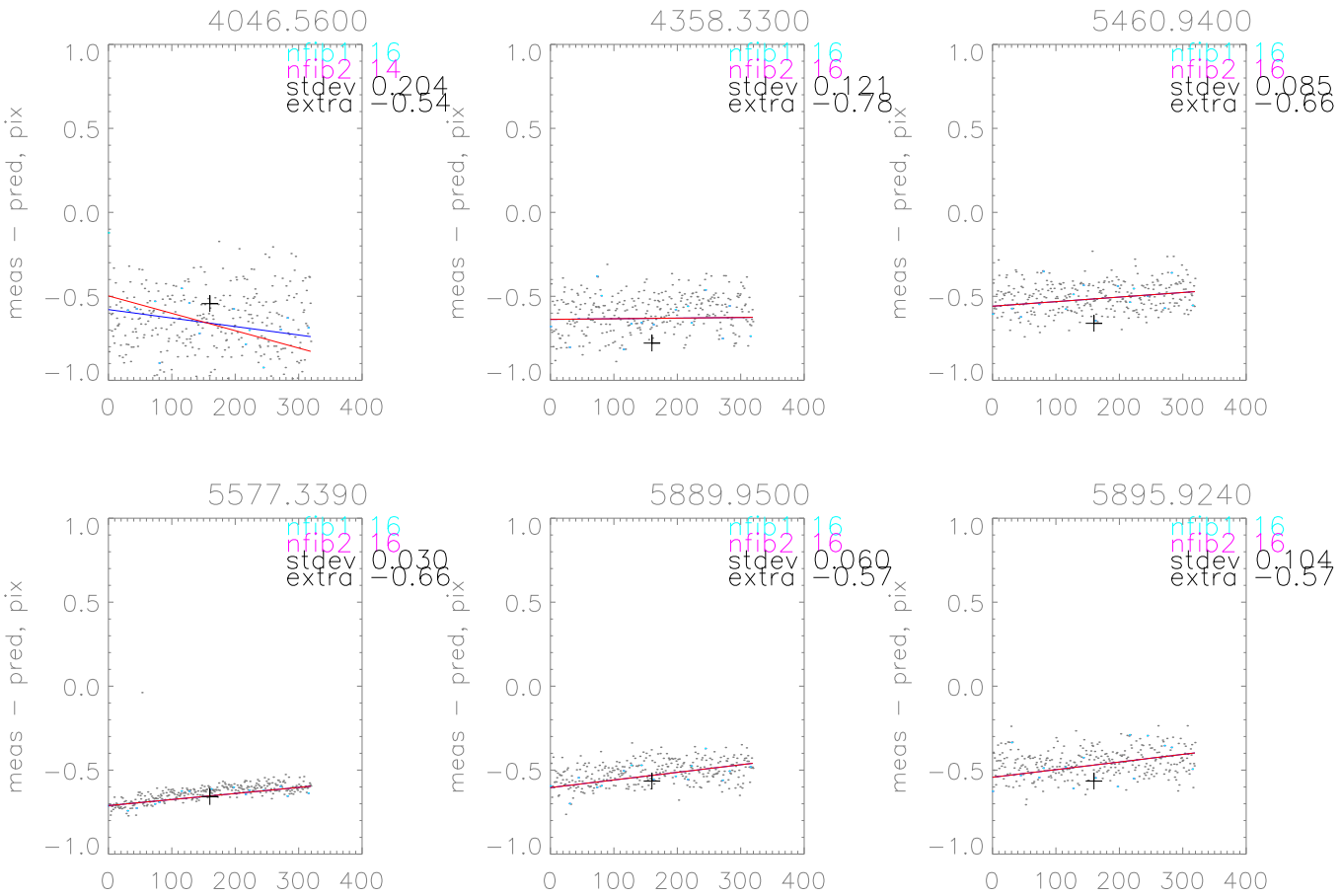

4358.3300
meas − arc
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
0
100
200
300
400

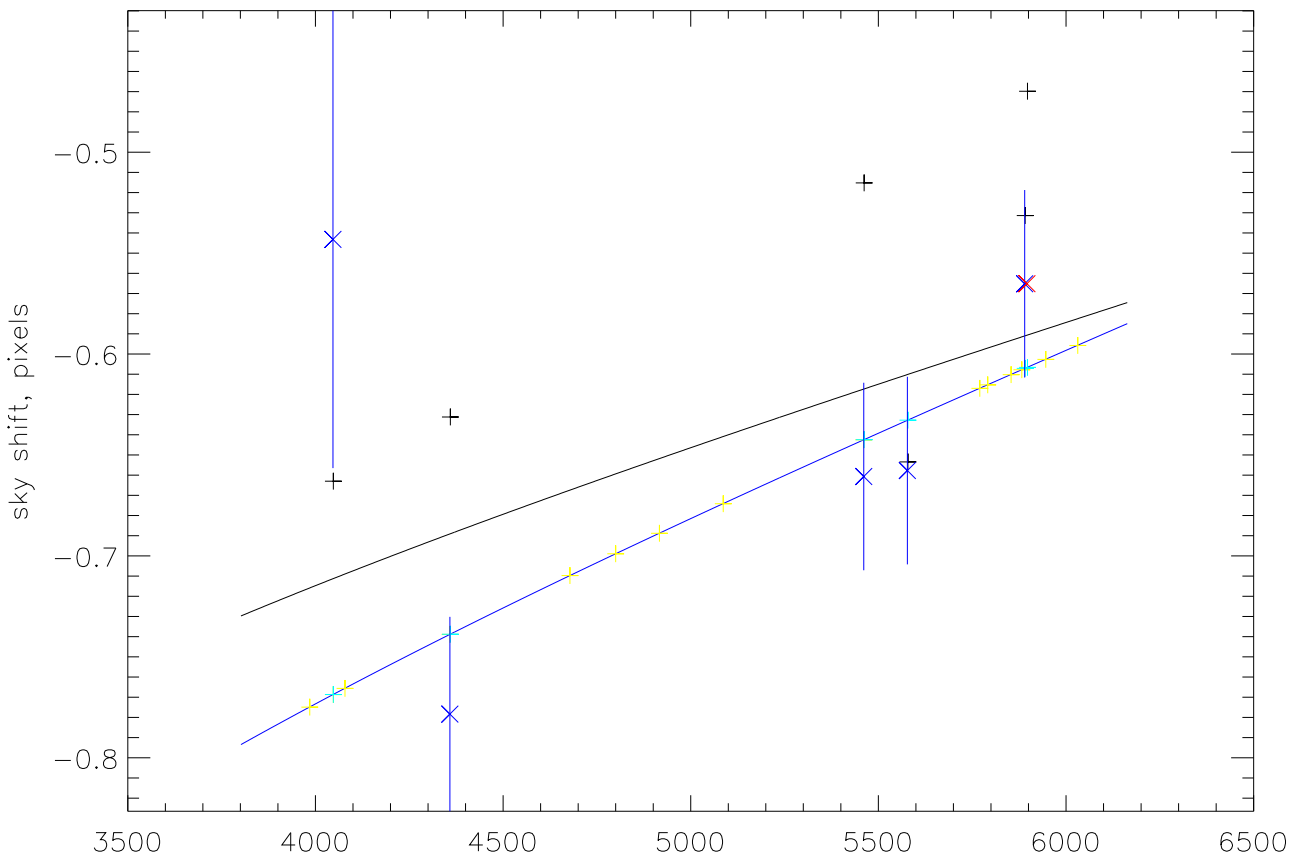

5460.9400
meas − arc
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
0
100
200
300
400

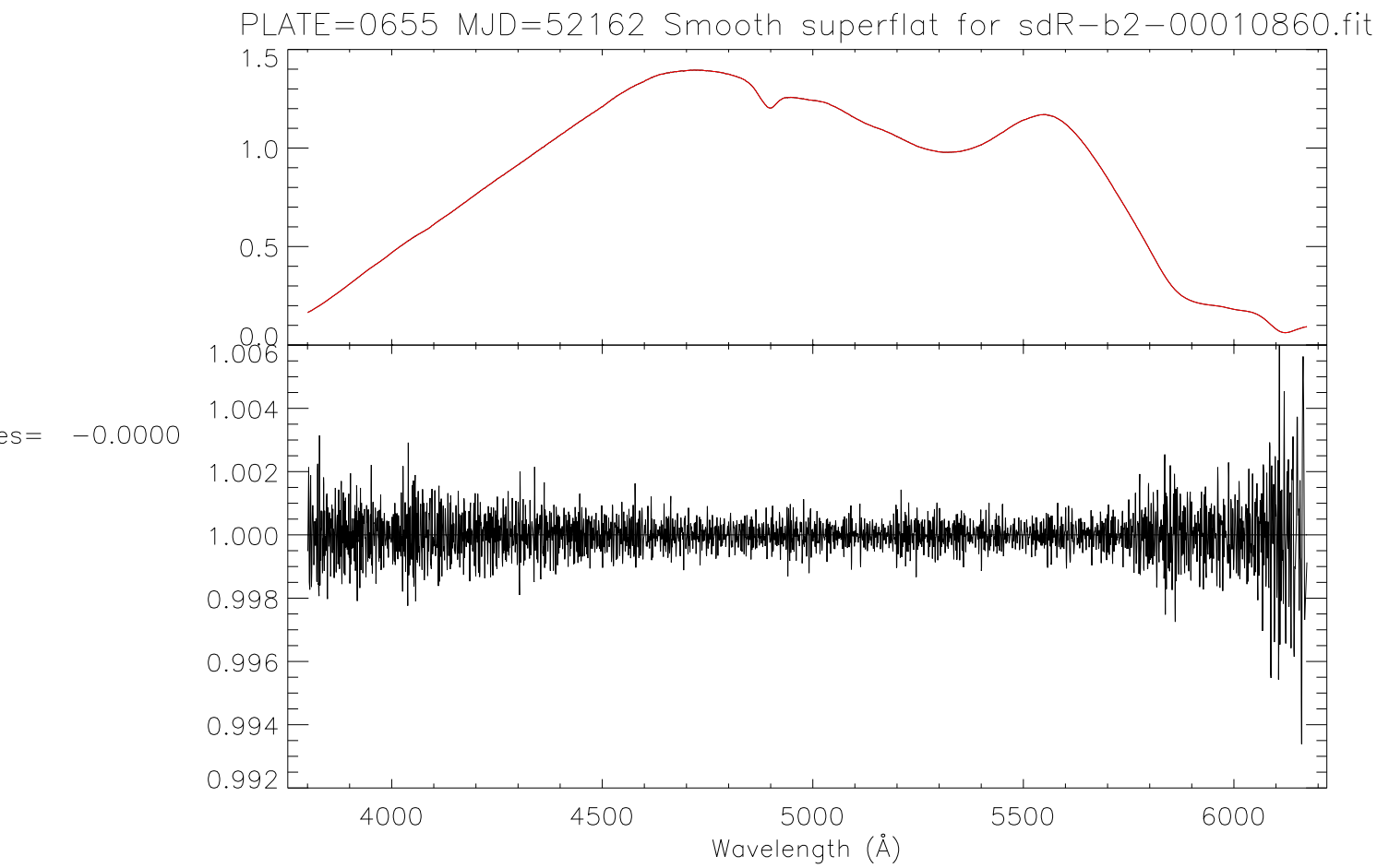

5577.3390
meas − arc
−0.4
−0.5
−0.6
−0.7
−0.8
−0.9
0
100
200
300
400


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

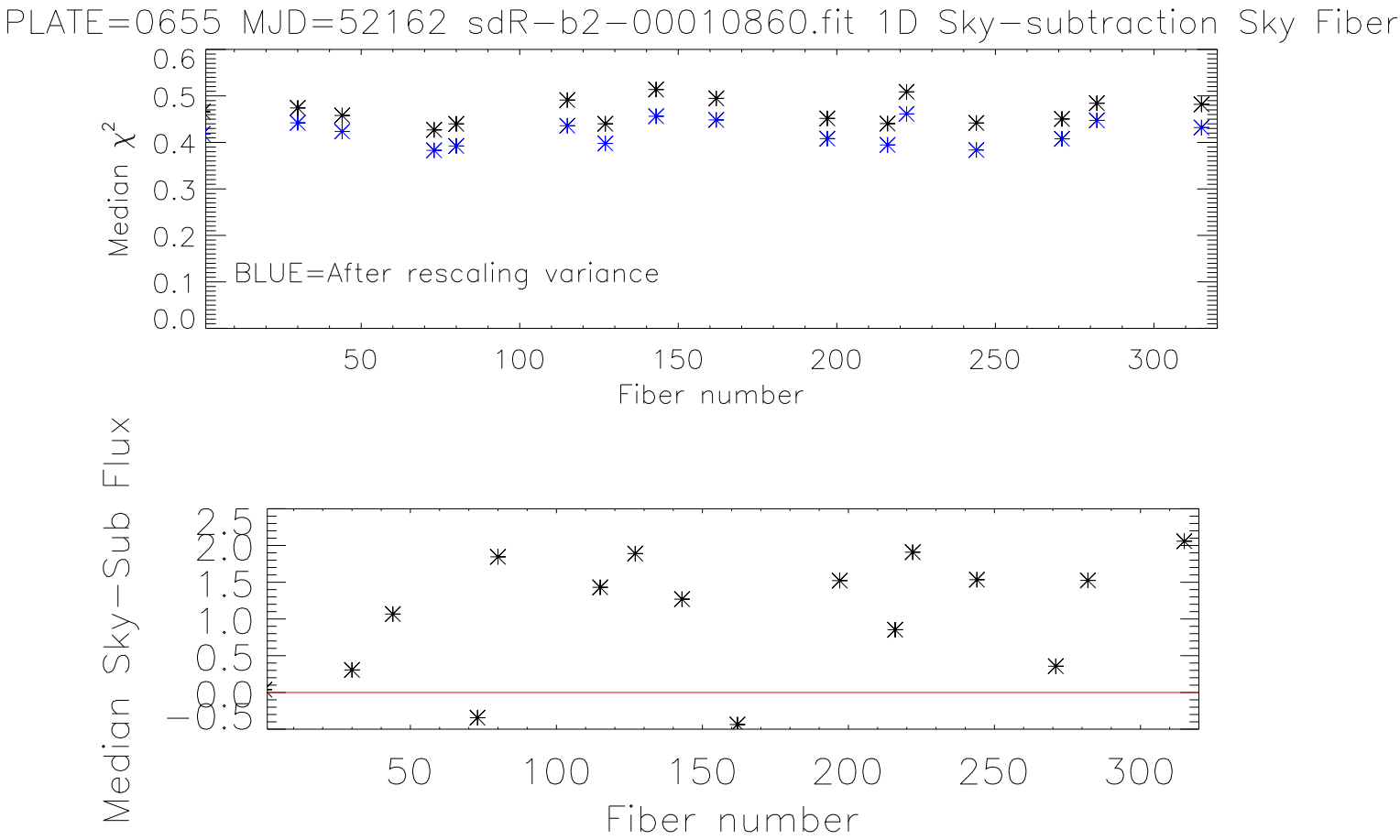

5895.9240
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

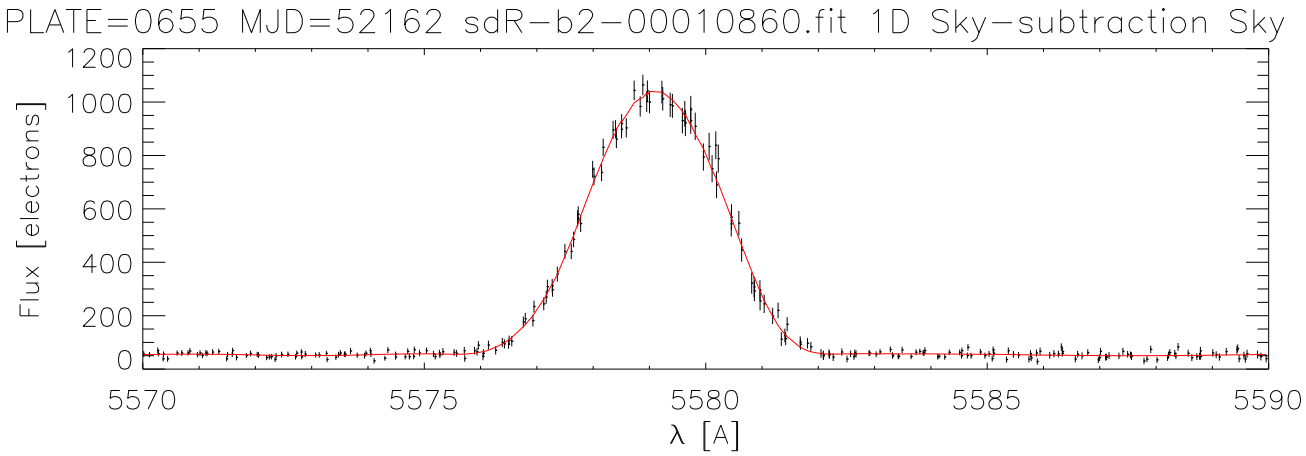

4046.5600
nfib1 16
nfib2 14
stdev 0.204
extra −0.54
4358.3300
nfib1 16
nfib2 16
stdev 0.121
extra −0.78
5460.9400
nfib1 16
nfib2 16
stdev 0.085
extra −0.66
5577.3390
nfib1 16
nfib2 16
stdev 0.030
extra −0.66
5889.9500
nfib1 16
nfib2 16
stdev 0.060
extra −0.57
5895.9240
nfib1 16
nfib2 16
stdev 0.104
extra −0.57
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

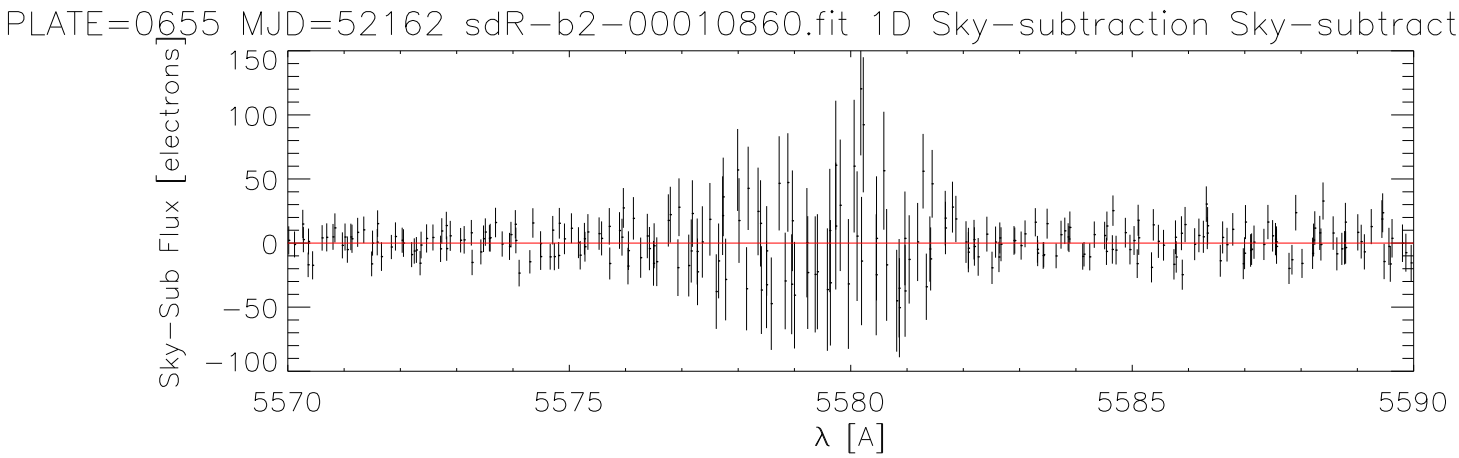

sky shift, pixels
−0.5
−0.6
−0.7
−0.8
3500
4000
4500
5000
5500
6000
6500

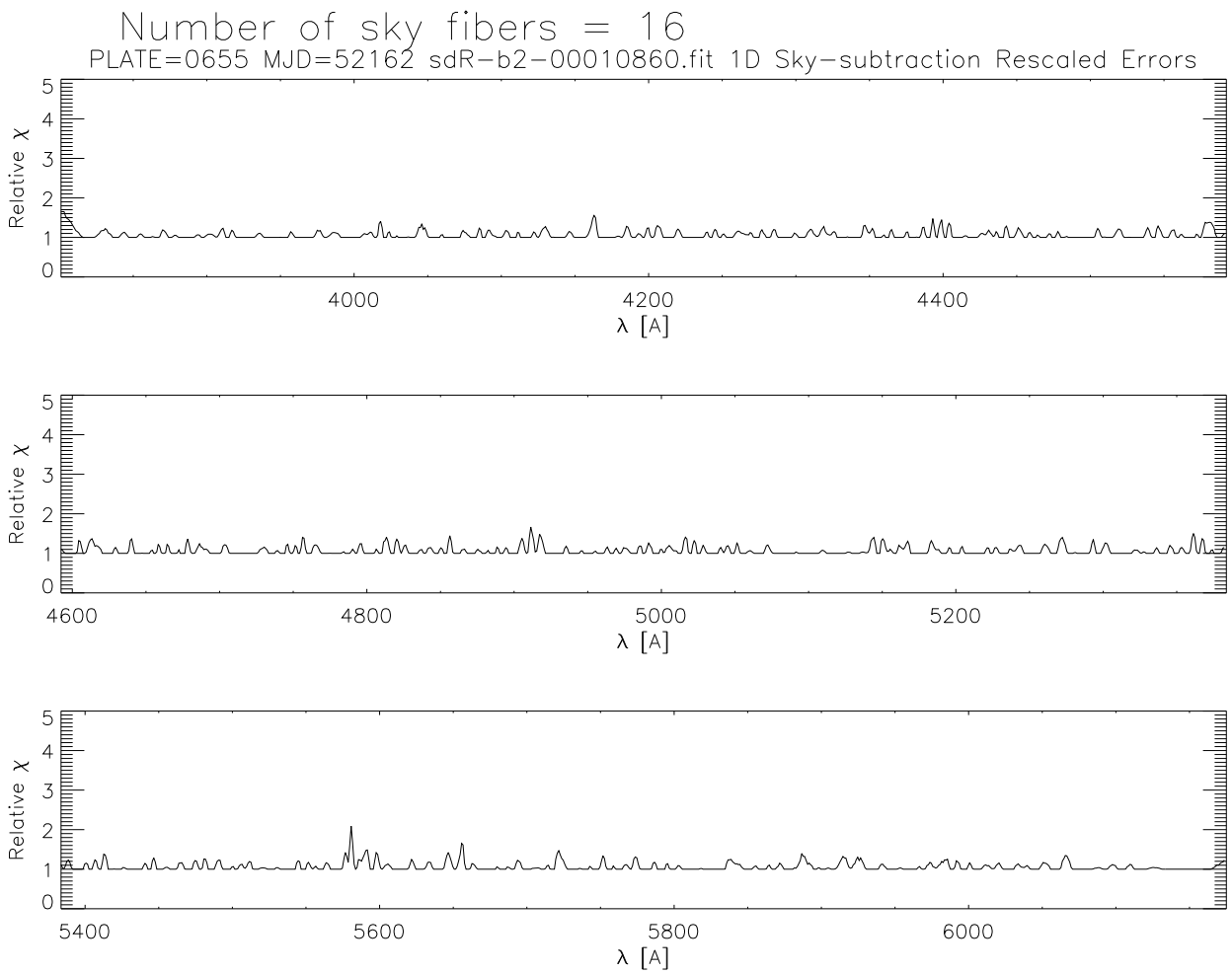

PLATE=0655 MJD=52162 Smooth superflat for sdR-b2-00010860.fit
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
4000
4500
5000
5500
6000
Wavelength (Å)

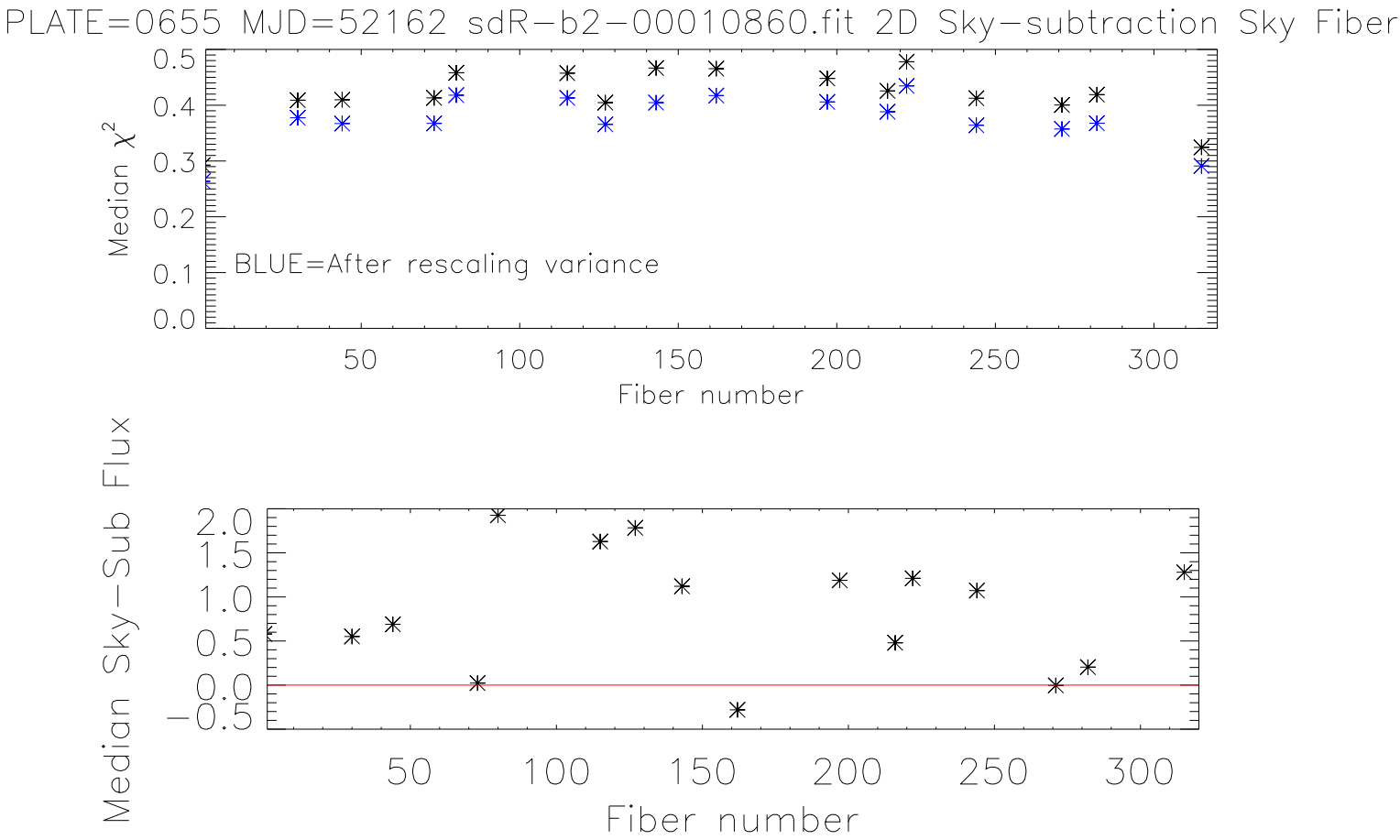
es= −0.0000

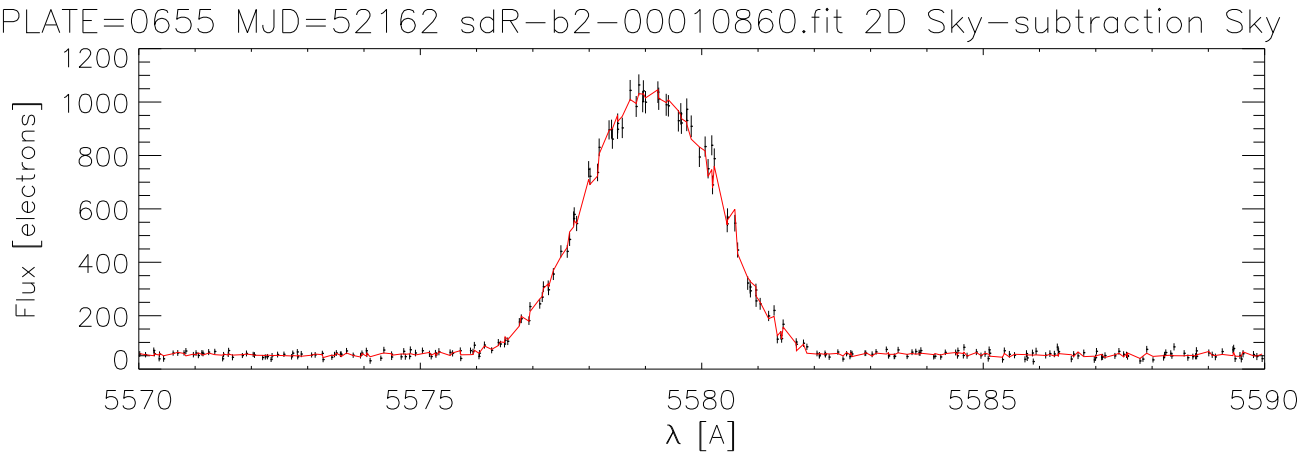

PLATE=0655 MJD=52162 sdR-b2-00010860.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

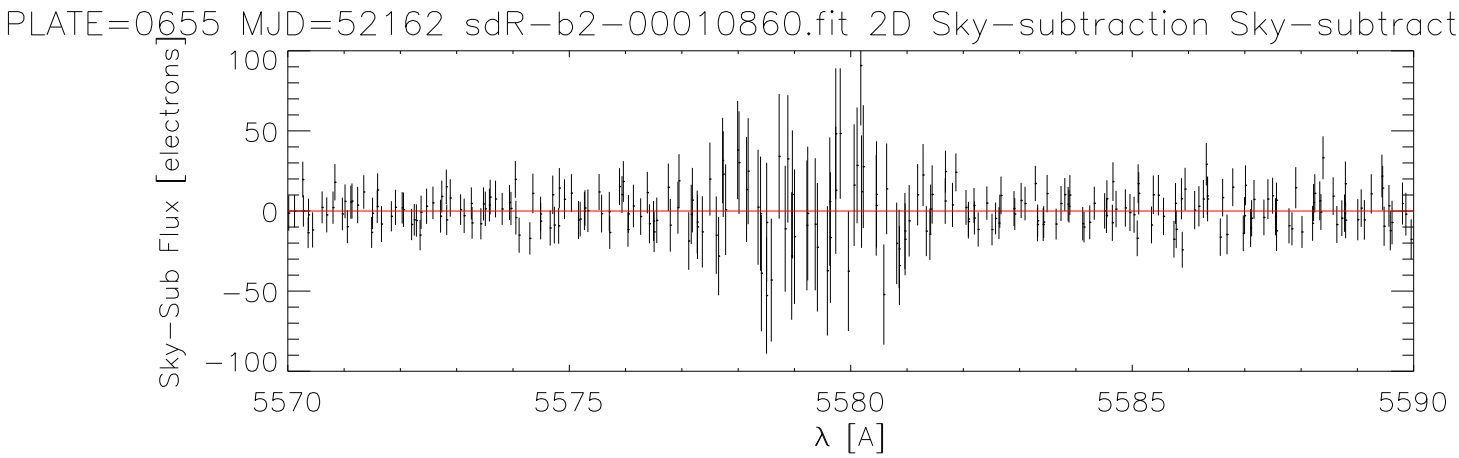

PLATE=0655 MJD=52162 sdR-b2-00010860.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1200
1000
800
600
400
200
0
5570
5575
5580
5585
5590
λ [A]

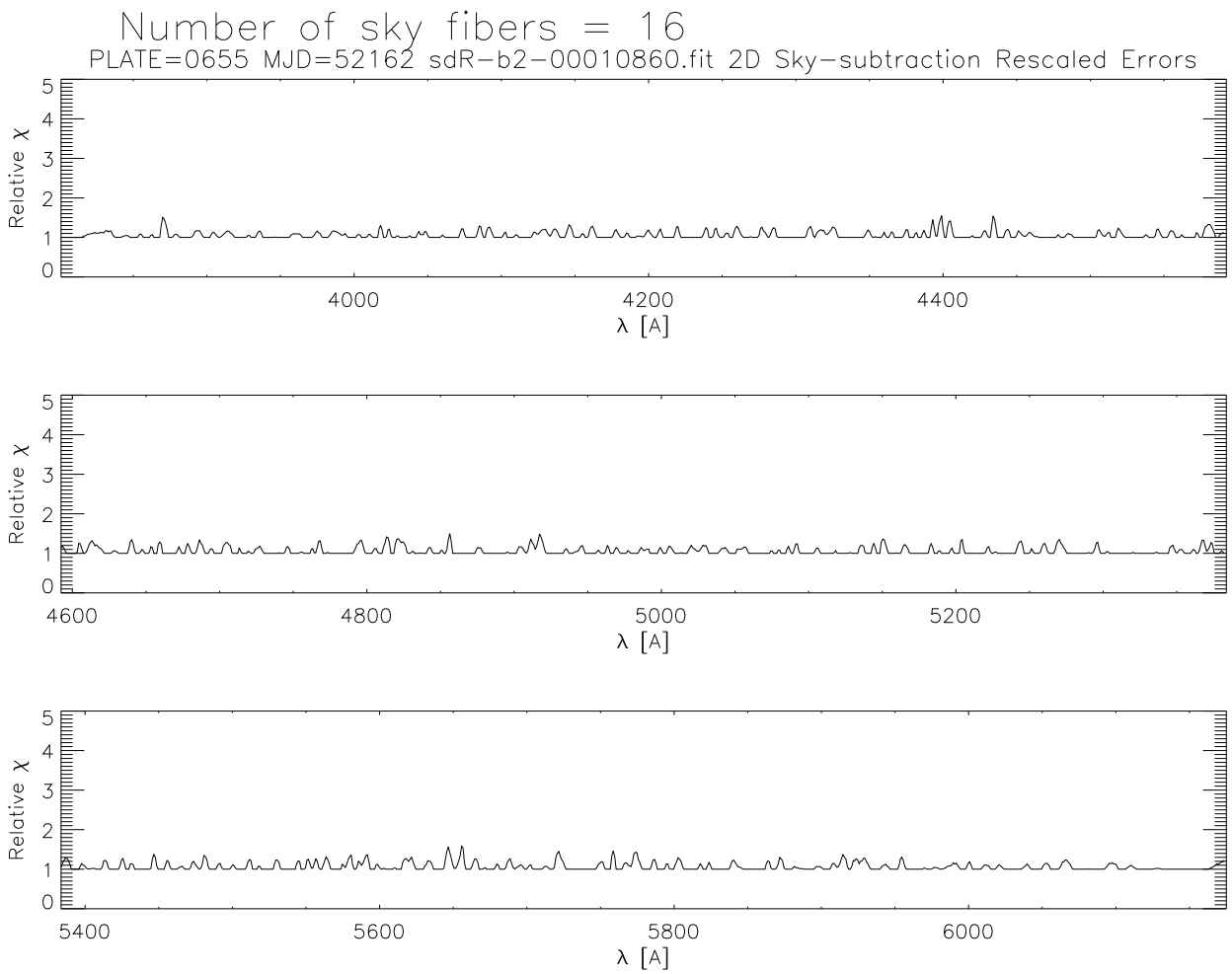

PLATE=0655 MJD=52162 sdR-b2-00010860.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
−50
−100
5570
5575
5580
5585
5590
λ [A]

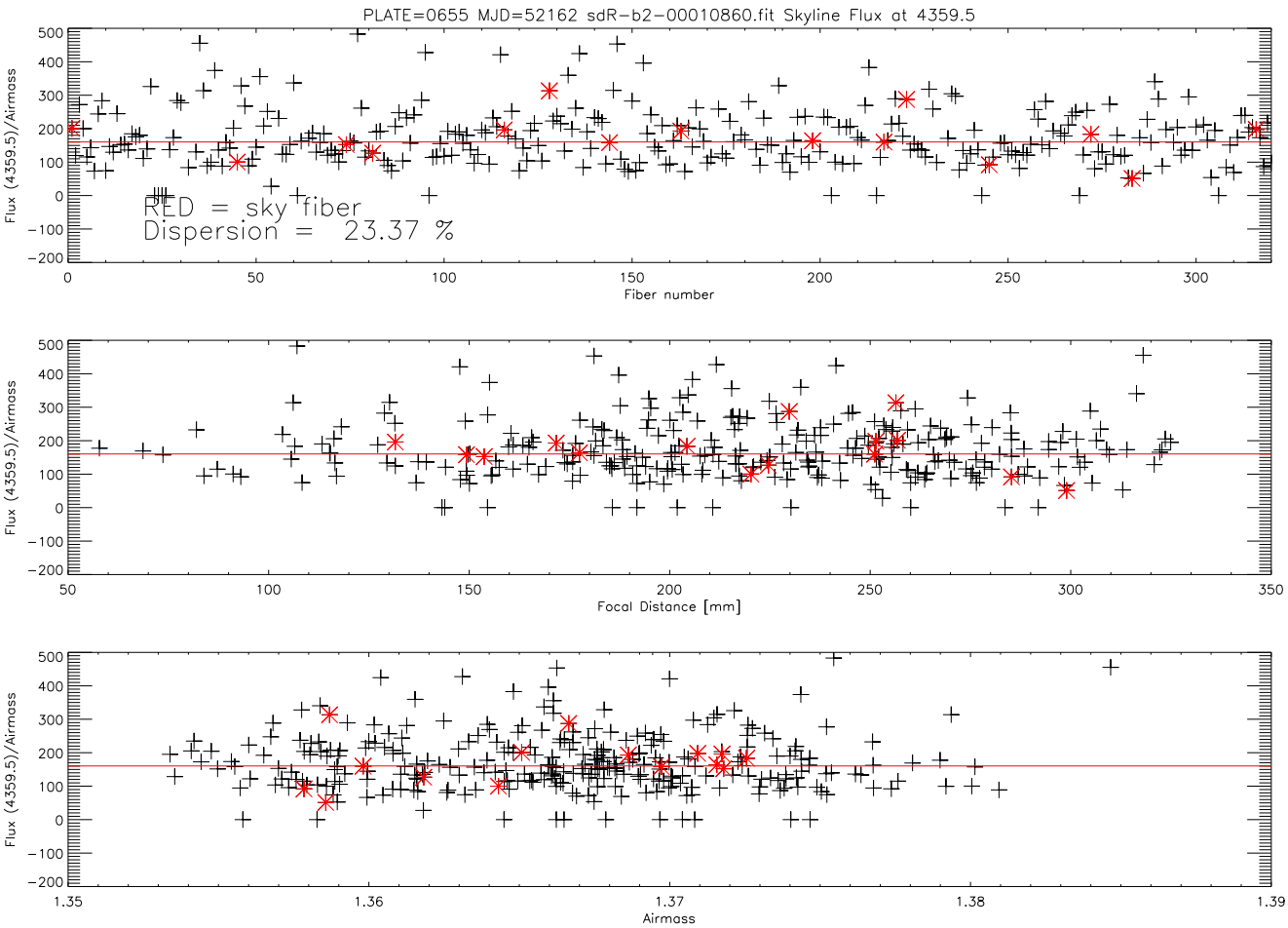

Number of sky fibers = 16
PLATE=0655 MJD=52162 sdR-b2-00010860.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

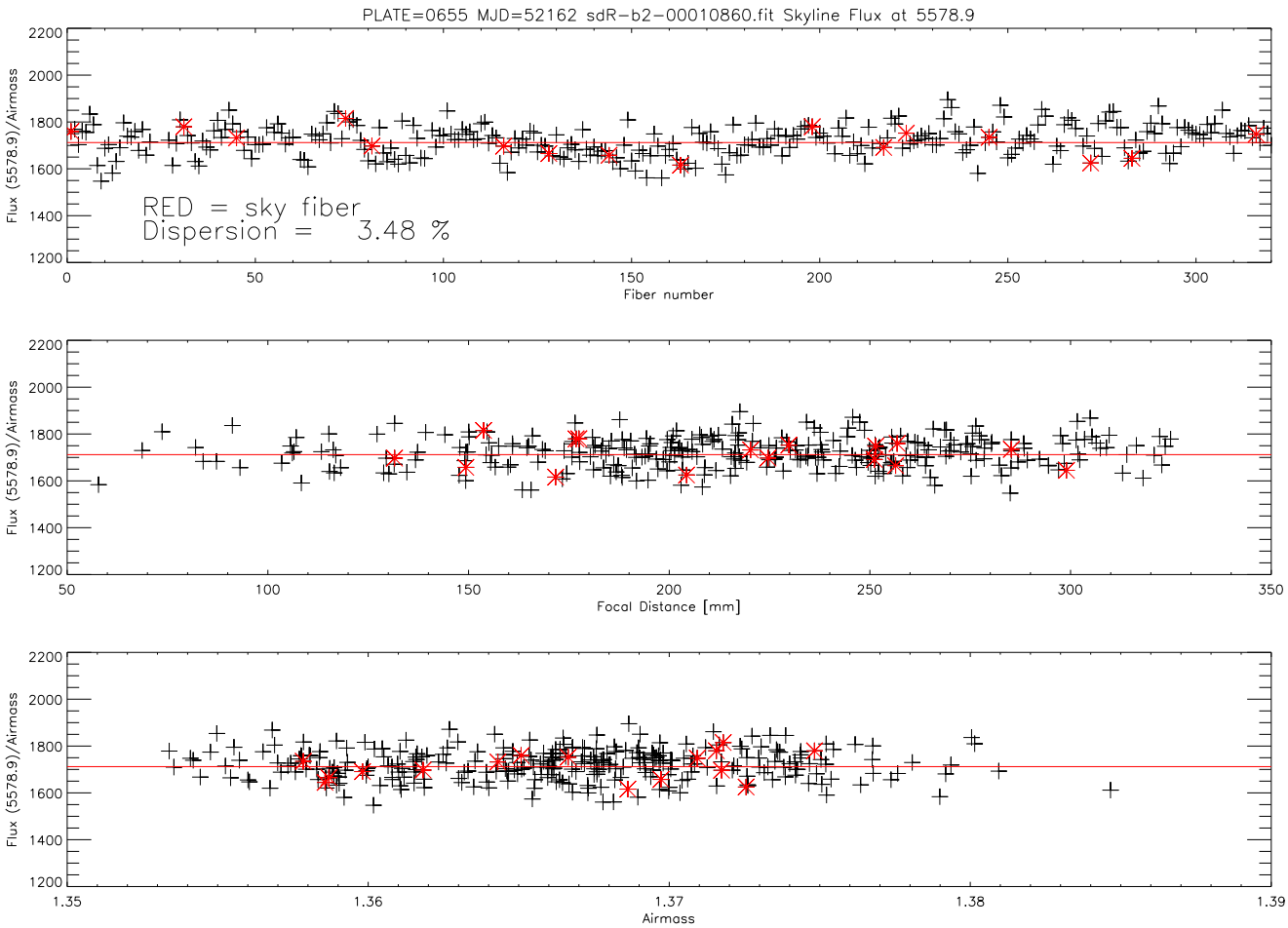

PLATE=0655 MJD=52162 sdR-b2-00010860.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

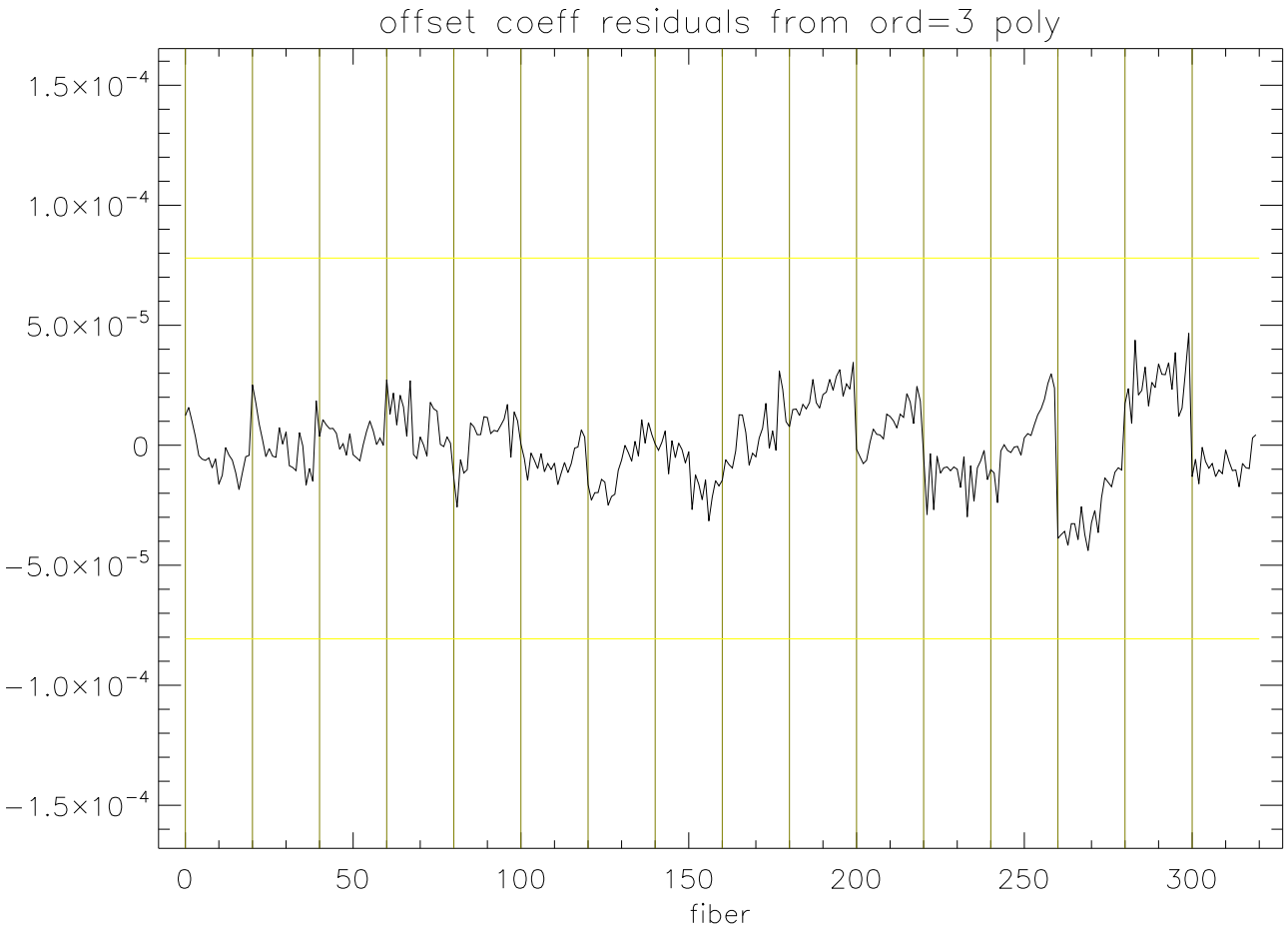

PLATE=0655 MJD=52162 sdR-b2-00010860.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1200
1000
800
600
400
200
0
5570
5575
5580
5585
5590
λ [A]

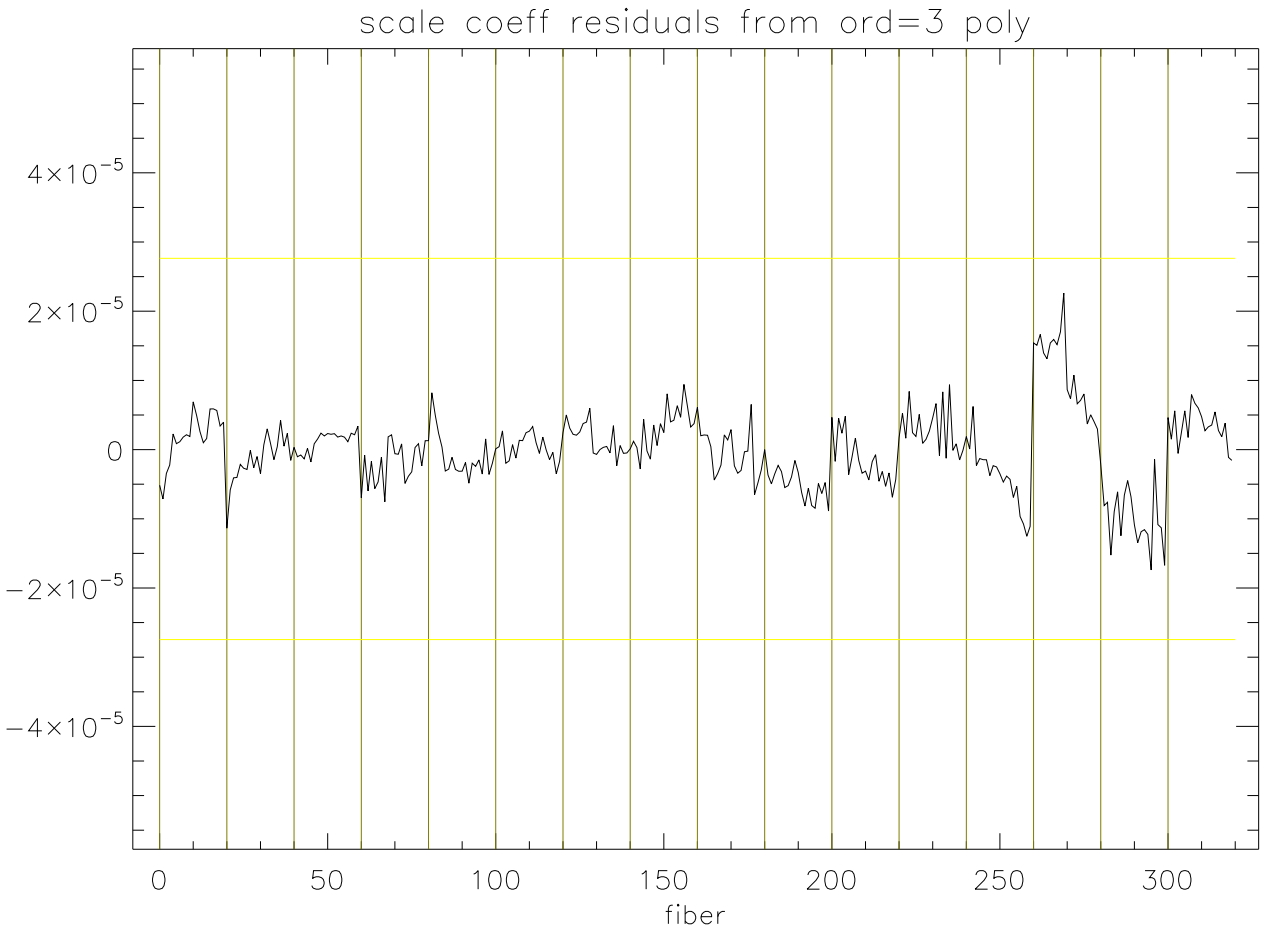

PLATE=0655 MJD=52162 sdR-b2-00010860.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
5570
5575
5580
5585
5590
λ [A]

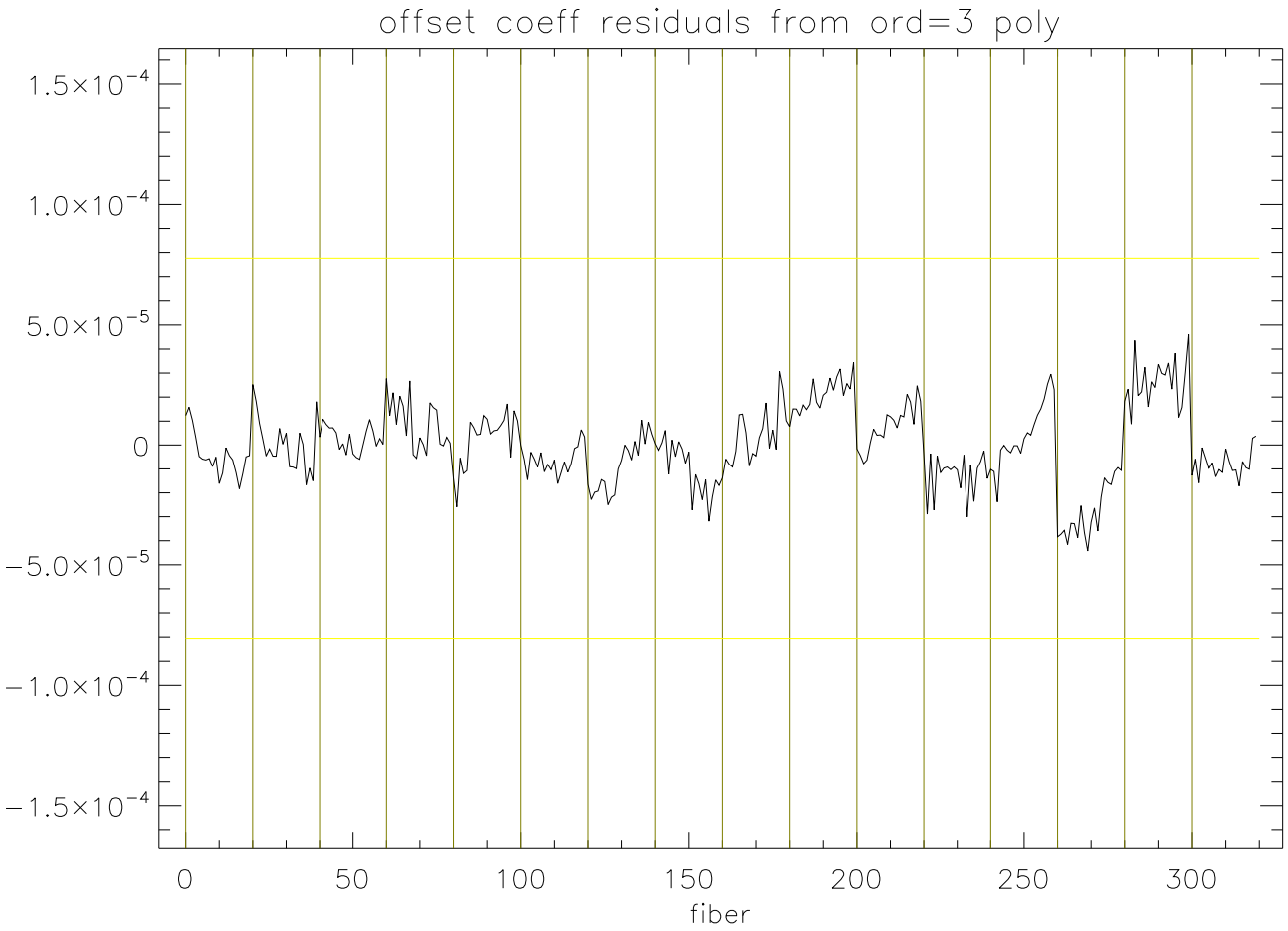

Number of sky fibers = 16
PLATE=0655 MJD=52162 sdR-b2-00010860.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

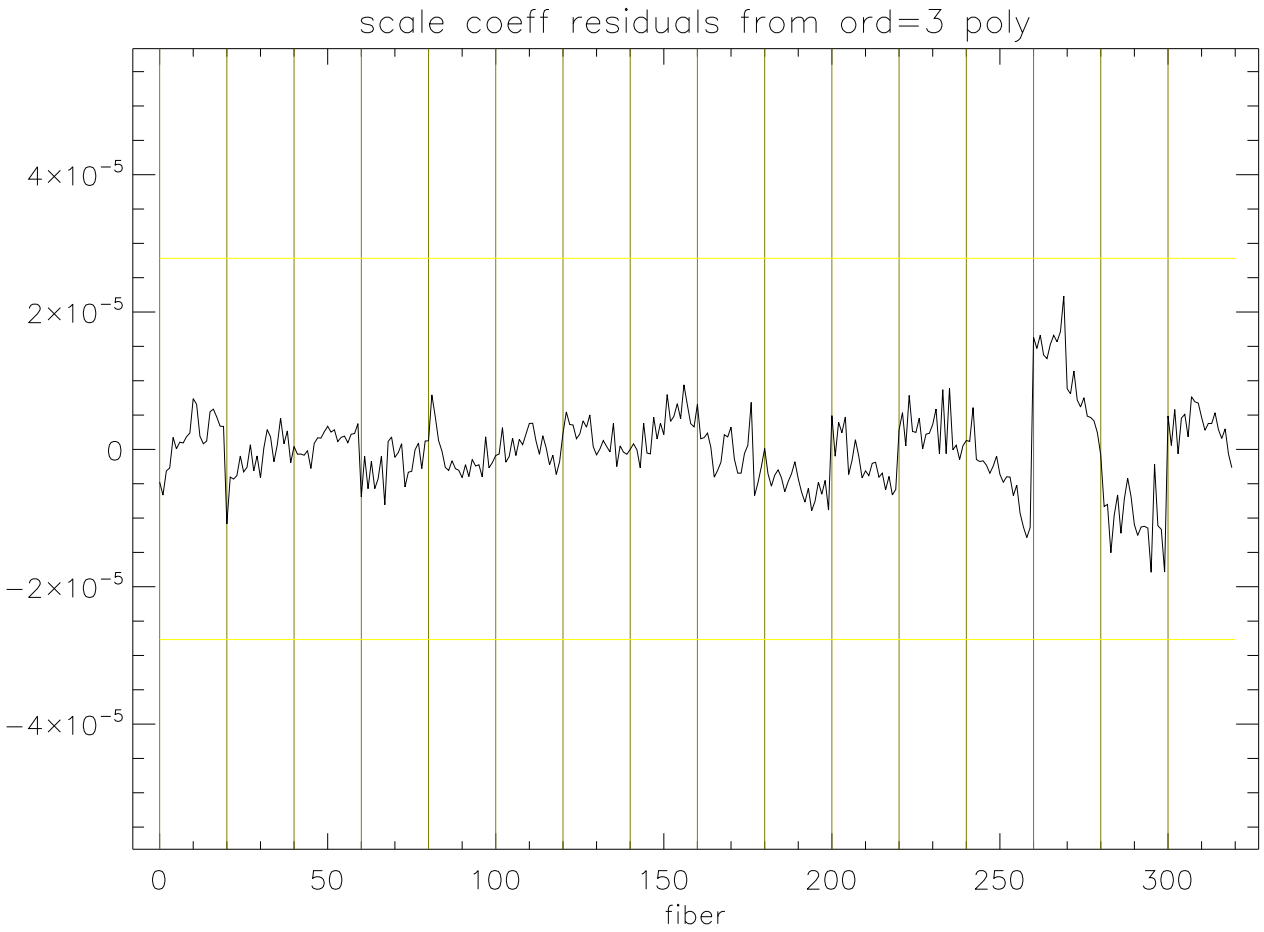

PLATE=0655 MJD=52162 sdR-b2-00010860.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 23.37 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

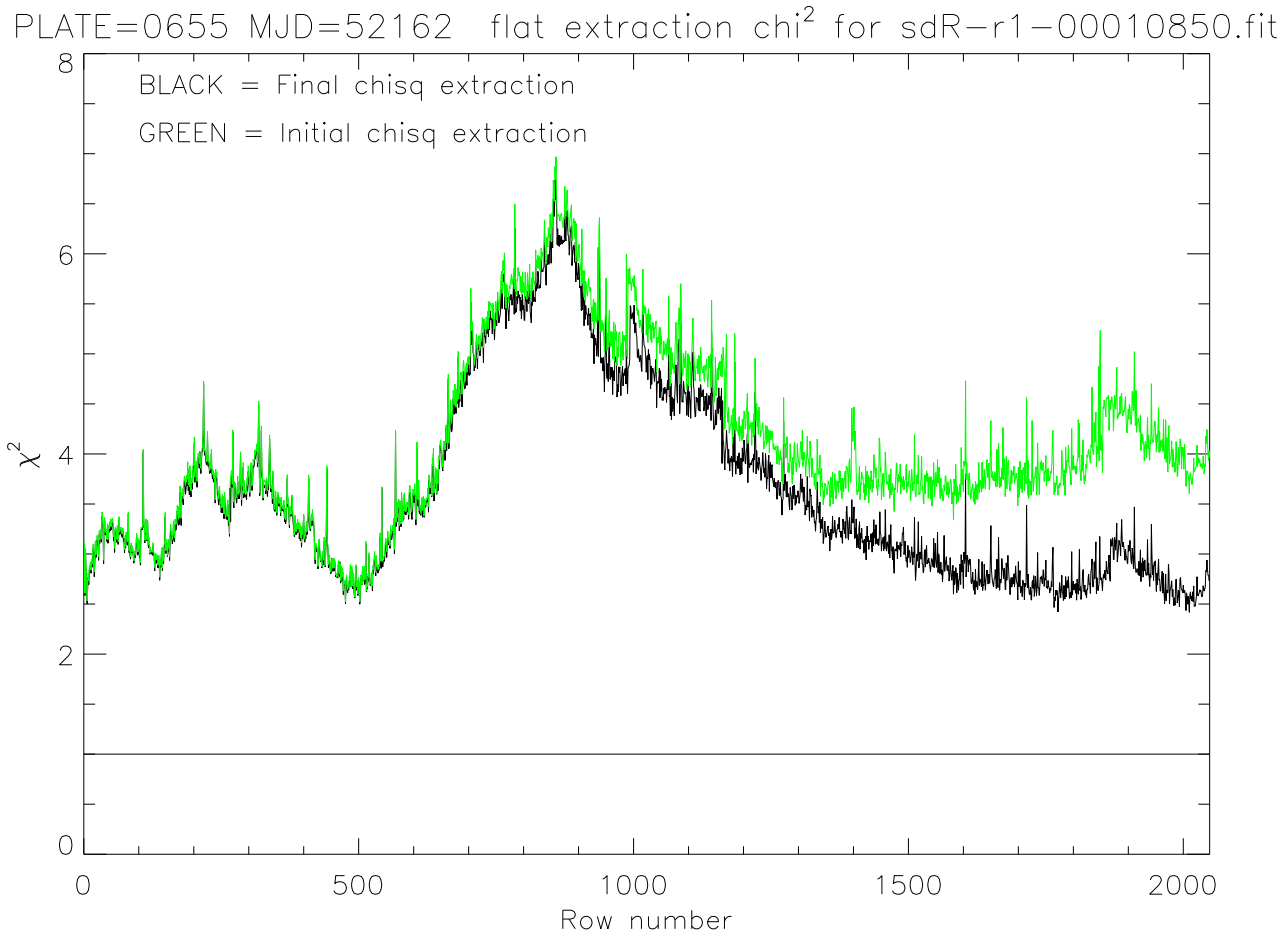

PLATE=0655 MJD=52162 sdR-b2-00010860.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 3.48 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

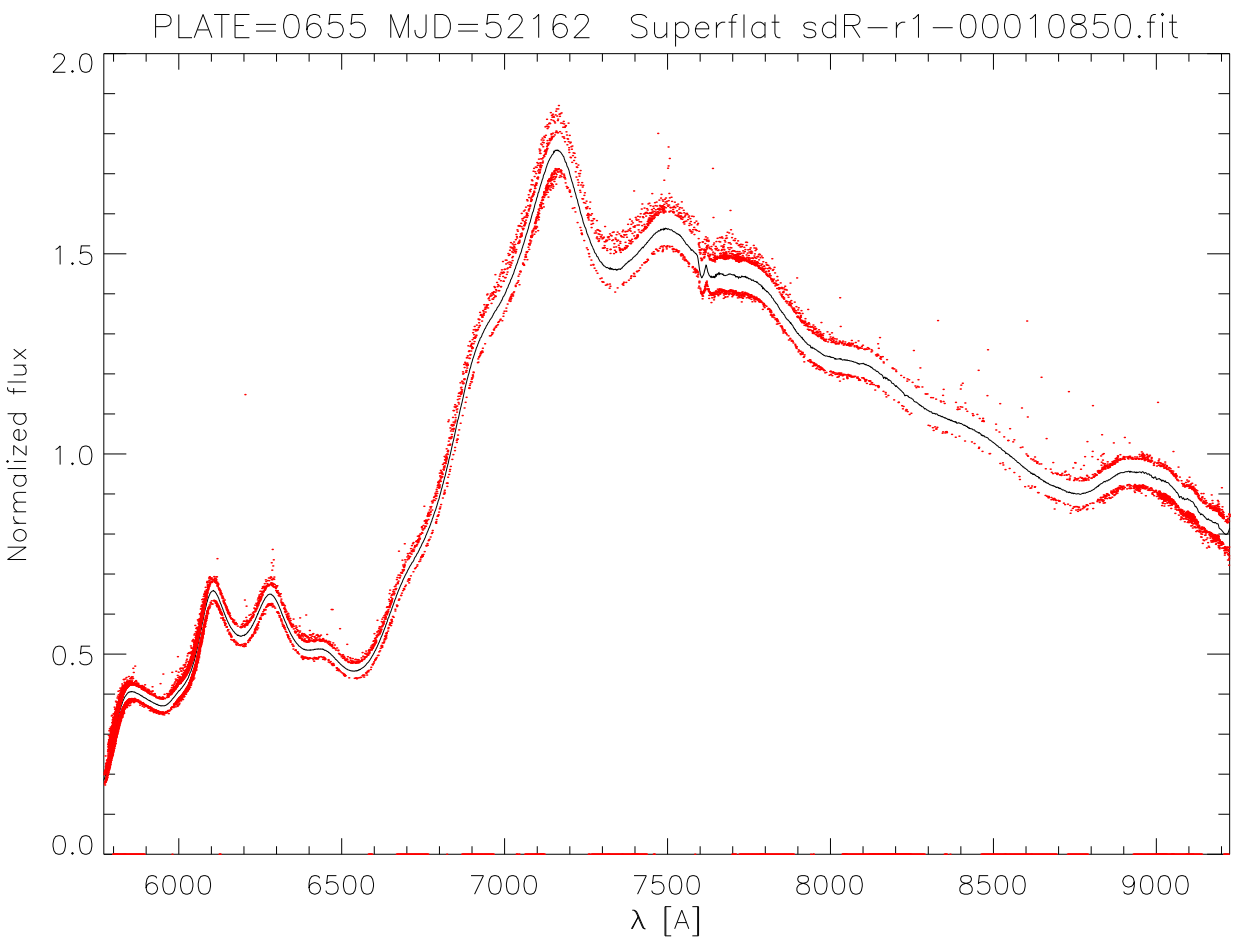

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

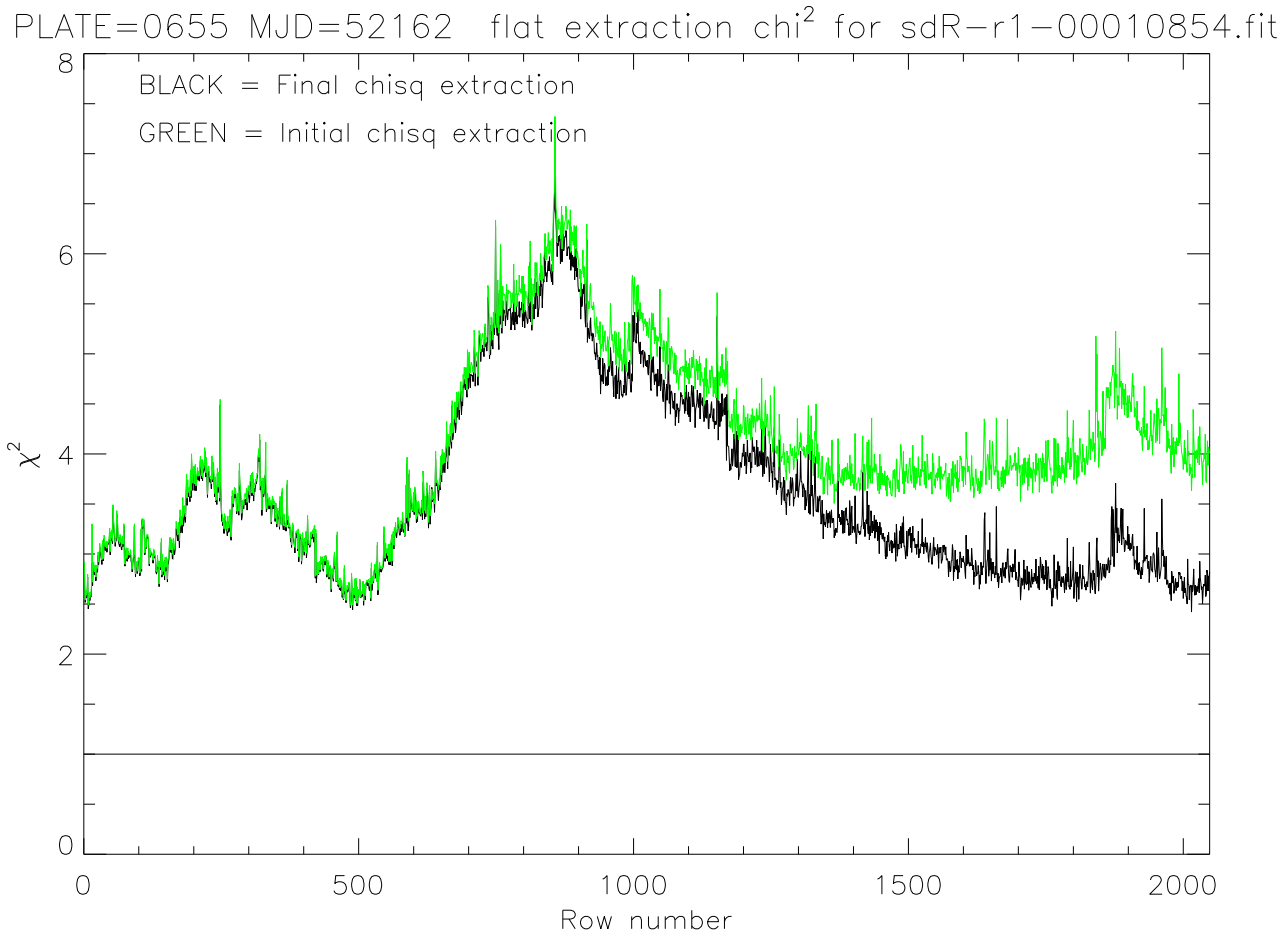

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

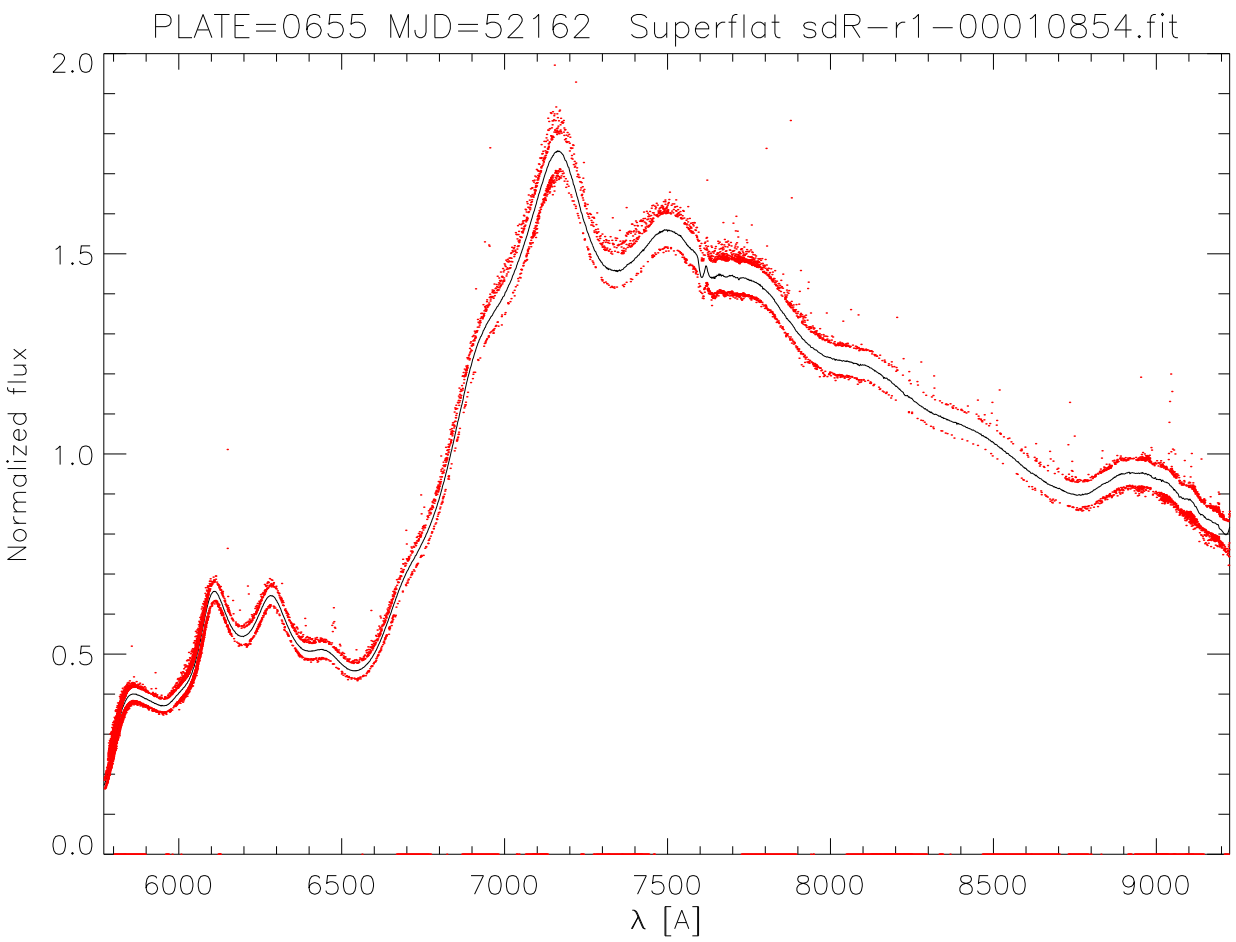

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

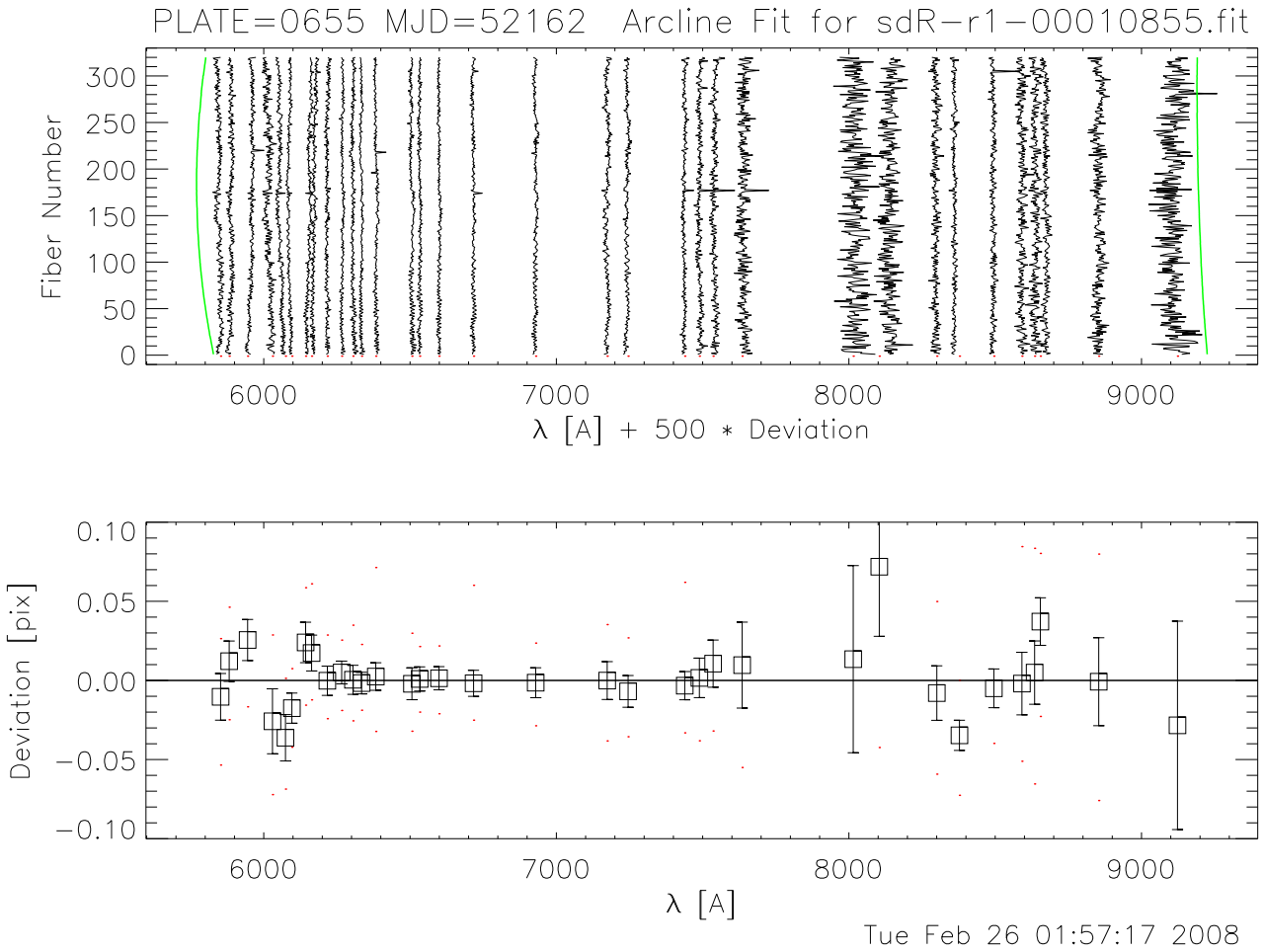

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

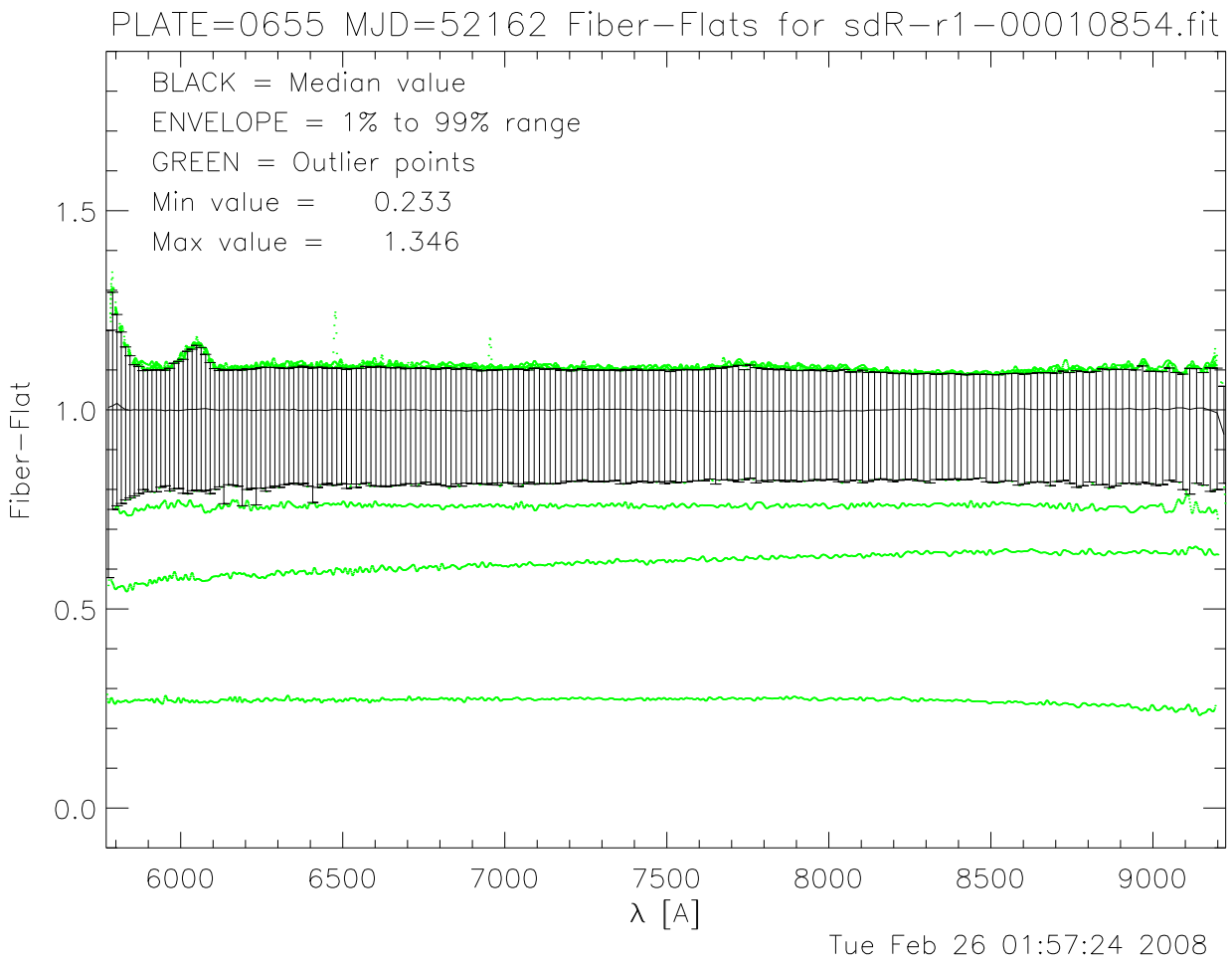

PLATE=0655 MJD=52162 flat extraction chi^2 for sdR−r1−00010850.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

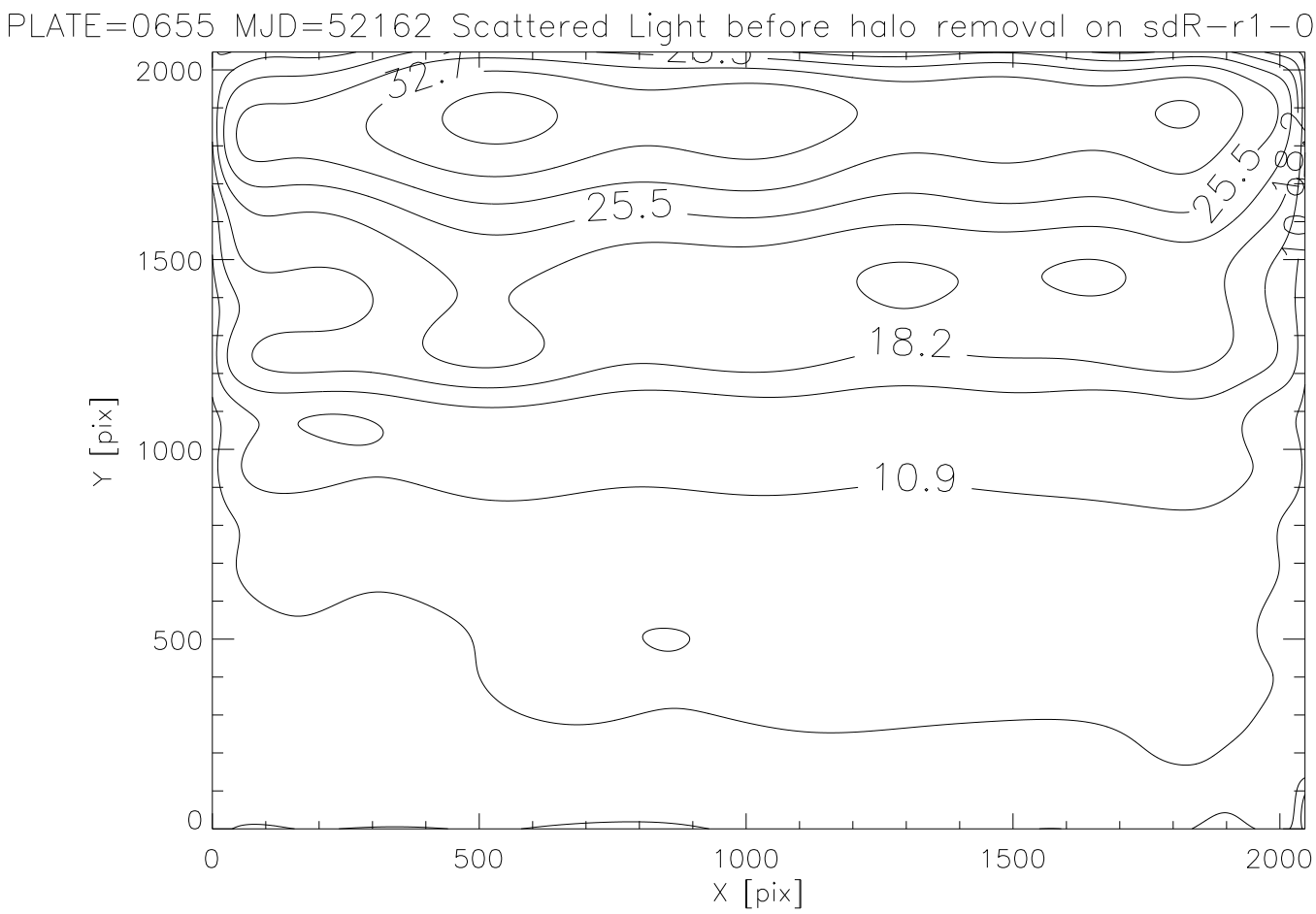

PLATE=0655 MJD=52162 Superflat sdR-r1-00010850.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

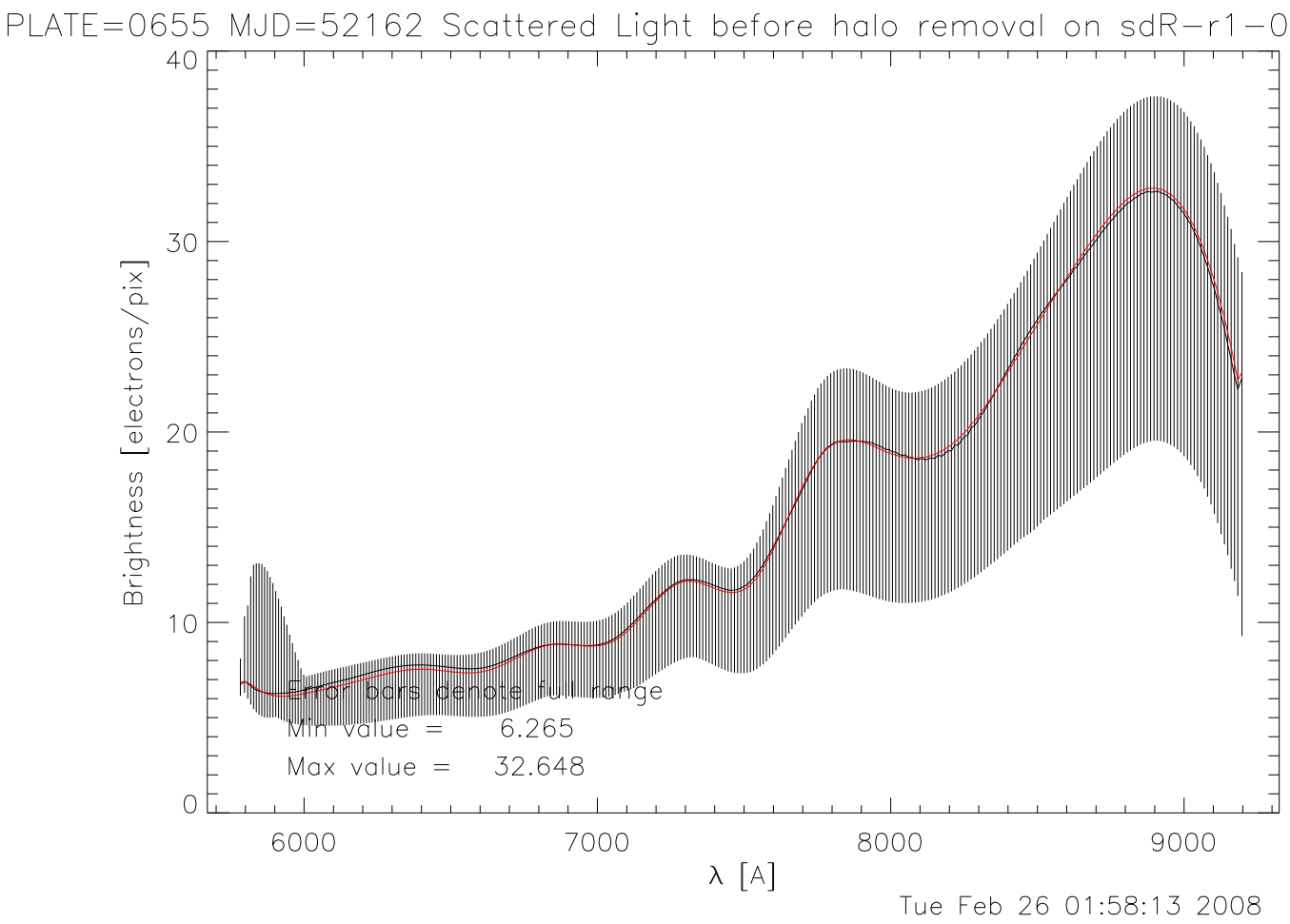

PLATE=0655 MJD=52162 flat extraction chi^2 for sdR−r1−00010854.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

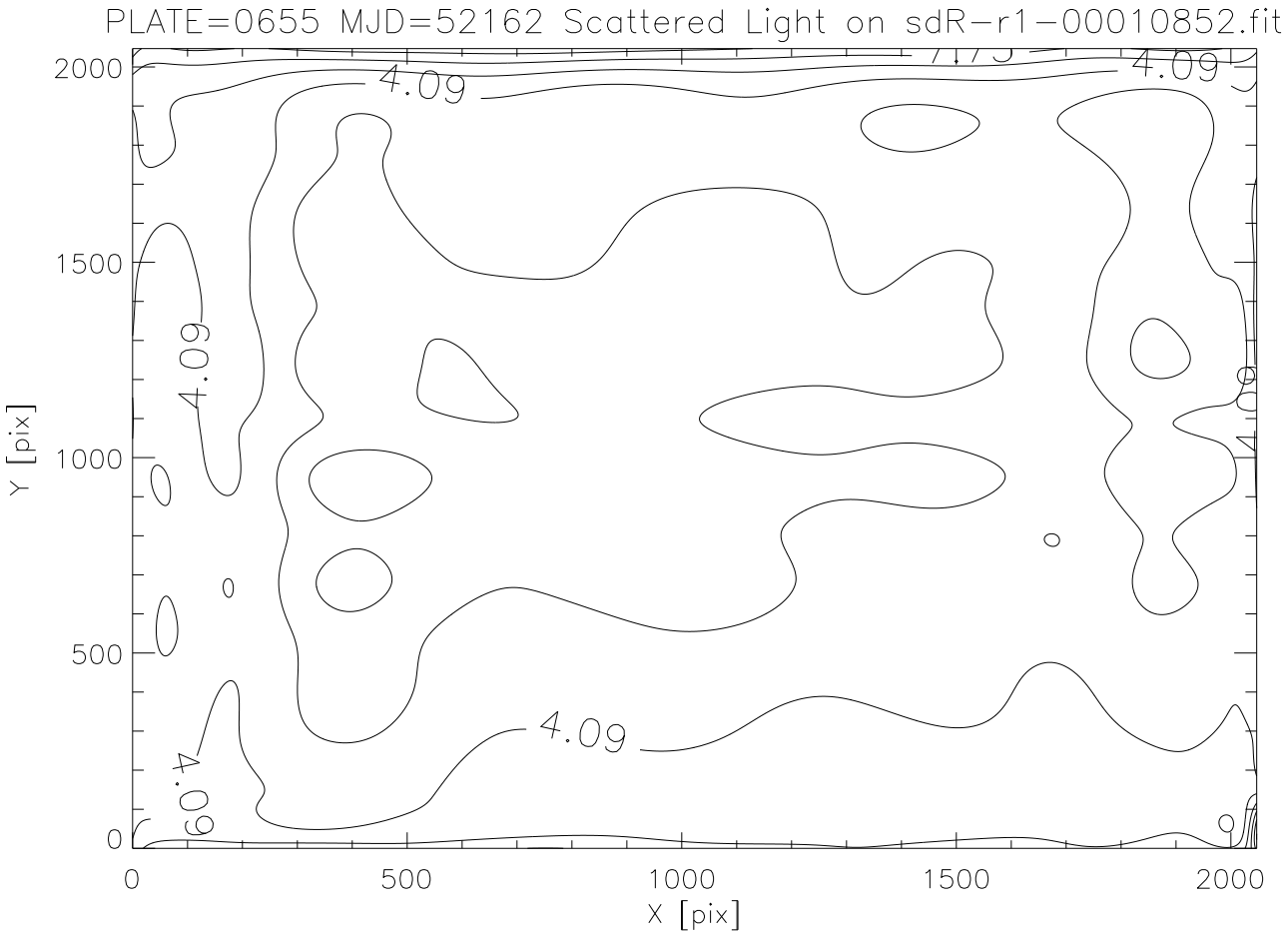

PLATE=0655 MJD=52162 Superflat sdR-r1-00010854.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

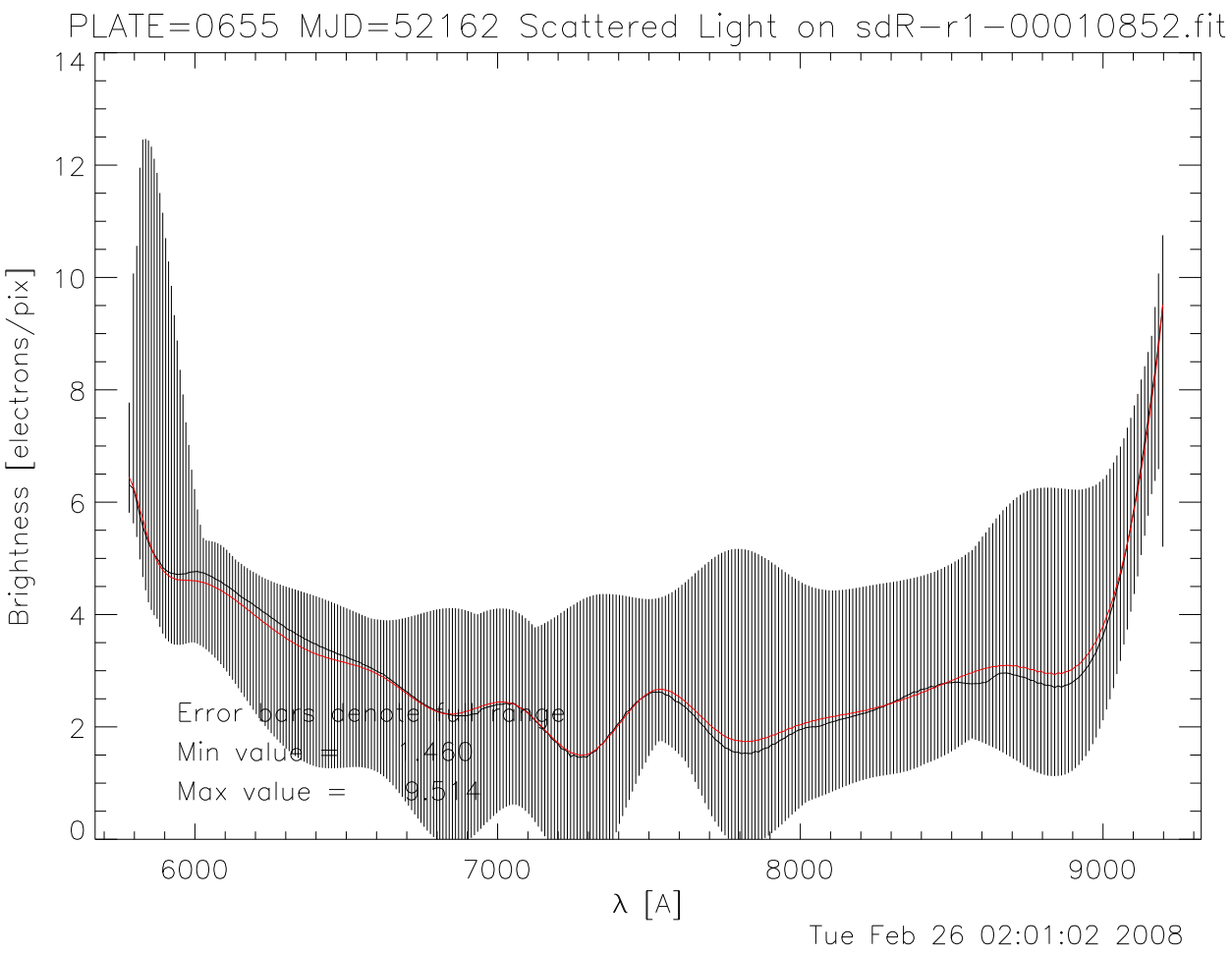

PLATE=0655 MJD=52162 Arcline Fit for sdR-r1-00010855.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Tue Feb 26 01:57:17 2008

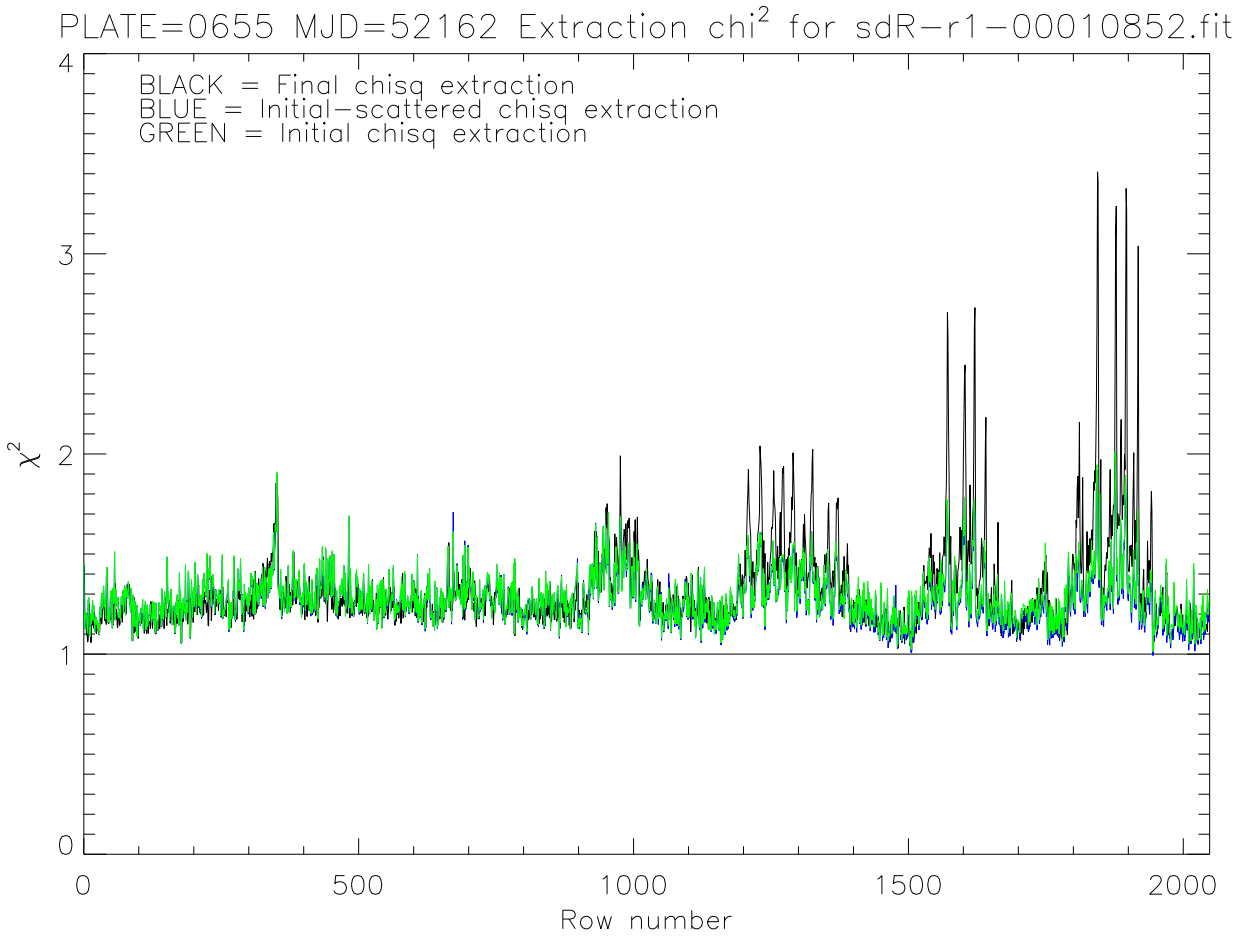

PLATE=0655 MJD=52162 Fiber−Flats for sdR−r1−00010854.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.233
Max value = 1.346
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Tue Feb 26 01:57:24 2008

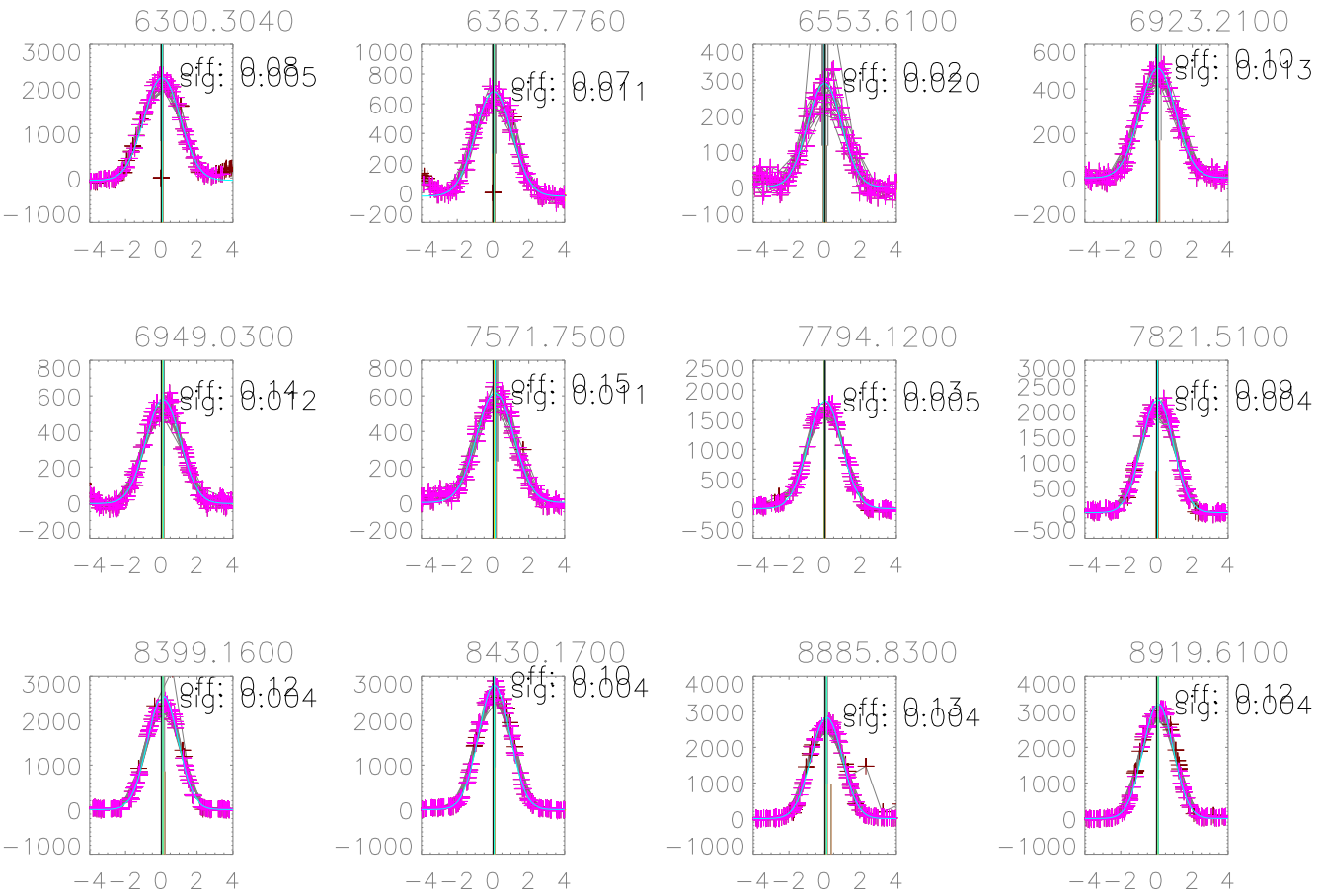

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR−r1−00010852.fi
52.7
25.5
25.5
18.2
10.9
10.92
Y [pix]
X [pix]
0
500
1000
1500
2000

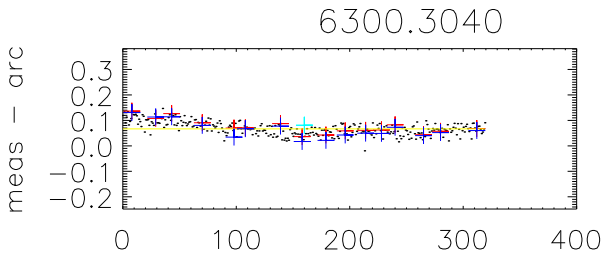

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-r1-00010852.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.265
Max value = 32.648
Tue Feb 26 01:58:13 2008

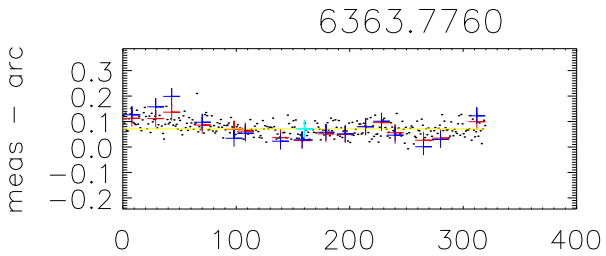

PLATE=0655 MJD=52162 Scattered Light on sdR-r1-00010852.fit
4.09
4.09
4.09
4.09
4.09
0
0
0
0
Y [pix]
X [pix]
0
500
1000
1500
2000

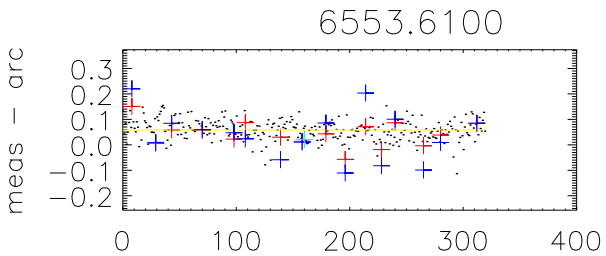

PLATE=0655 MJD=52162 Scattered Light on sdR-r1-00010852.fit
Brightness [electrons/pix]
λ [A]
Error bars denote 1-σ range
Min value = -1.460
Max value = 9.514
Tue Feb 26 02:01:02 2008

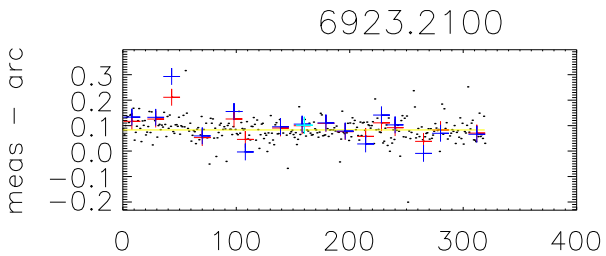

PLATE=0655 MJD=52162 Extraction chi^2 for sdR−r1−00010852.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

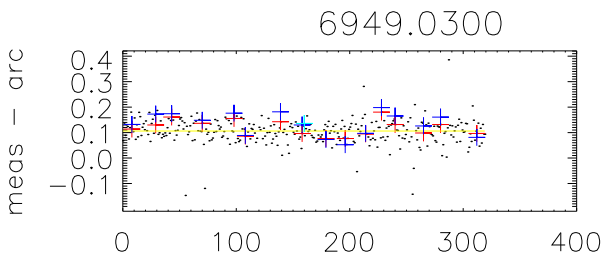

6300.3040
off: 0.08
sig: 0.005
6363.7760
off: 0.07
sig: 0.011
6553.6100
off: 0.02
sig: 0.020
6923.2100
off: 0.10
sig: 0.013
6949.0300
off: 0.14
sig: 0.012
7571.7500
off: 0.15
sig: 0.011
7794.1200
off: 0.03
sig: 0.005
7821.5100
off: 0.08
sig: 0.004
8399.1600
off: 0.12
sig: 0.004
8430.1700
off: 0.10
sig: 0.004
8885.8300
off: 0.13
sig: 0.004
8919.6100
off: 0.12
sig: 0.004

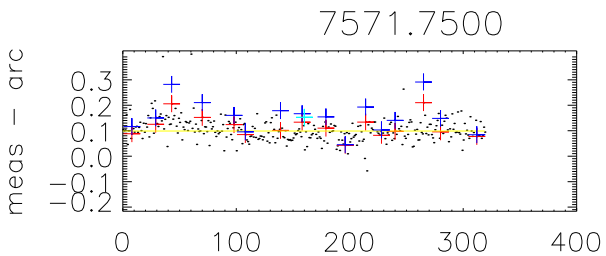

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

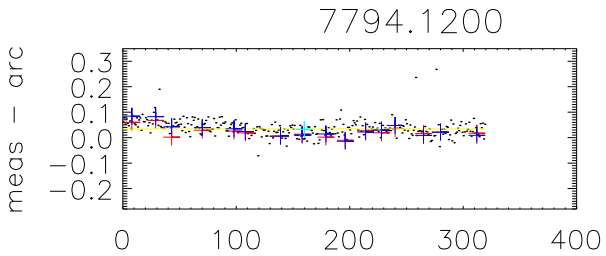

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

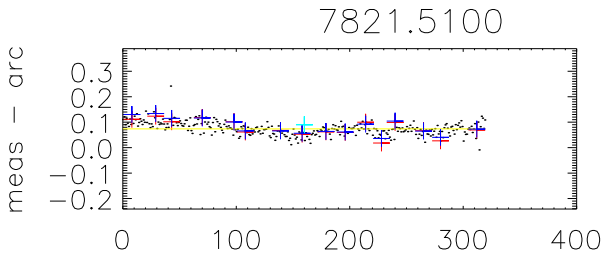

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

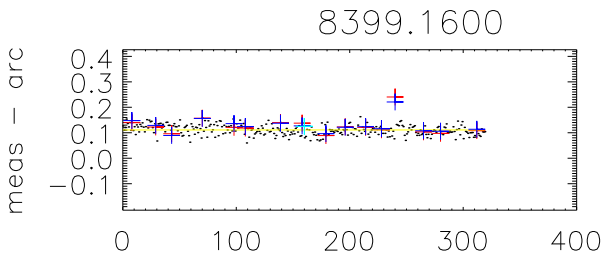

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

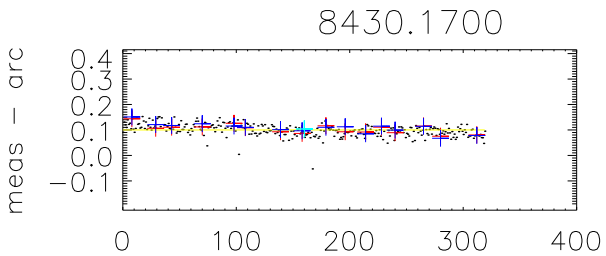

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

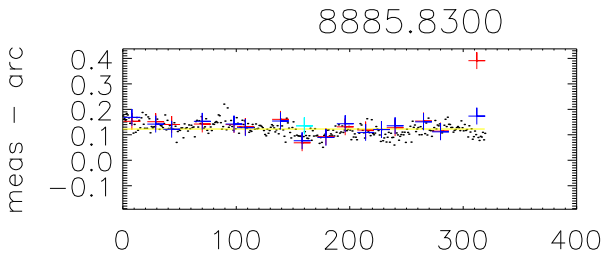

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

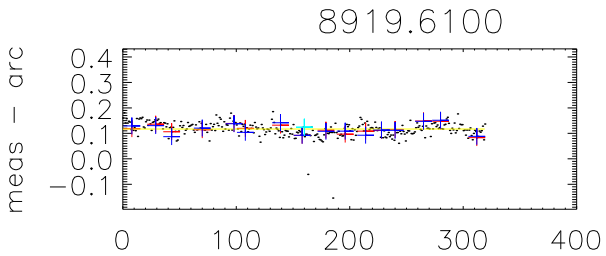

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

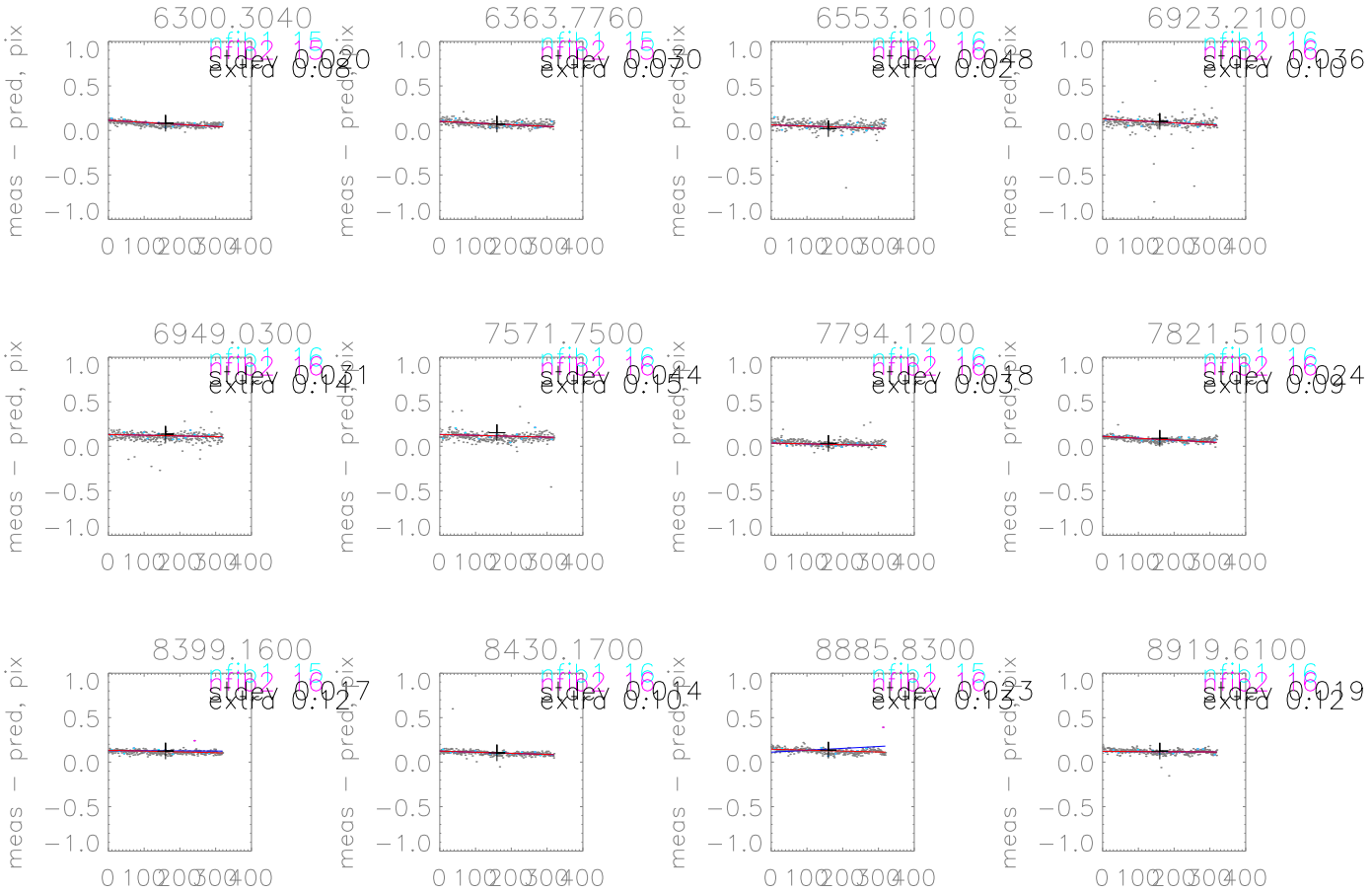

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

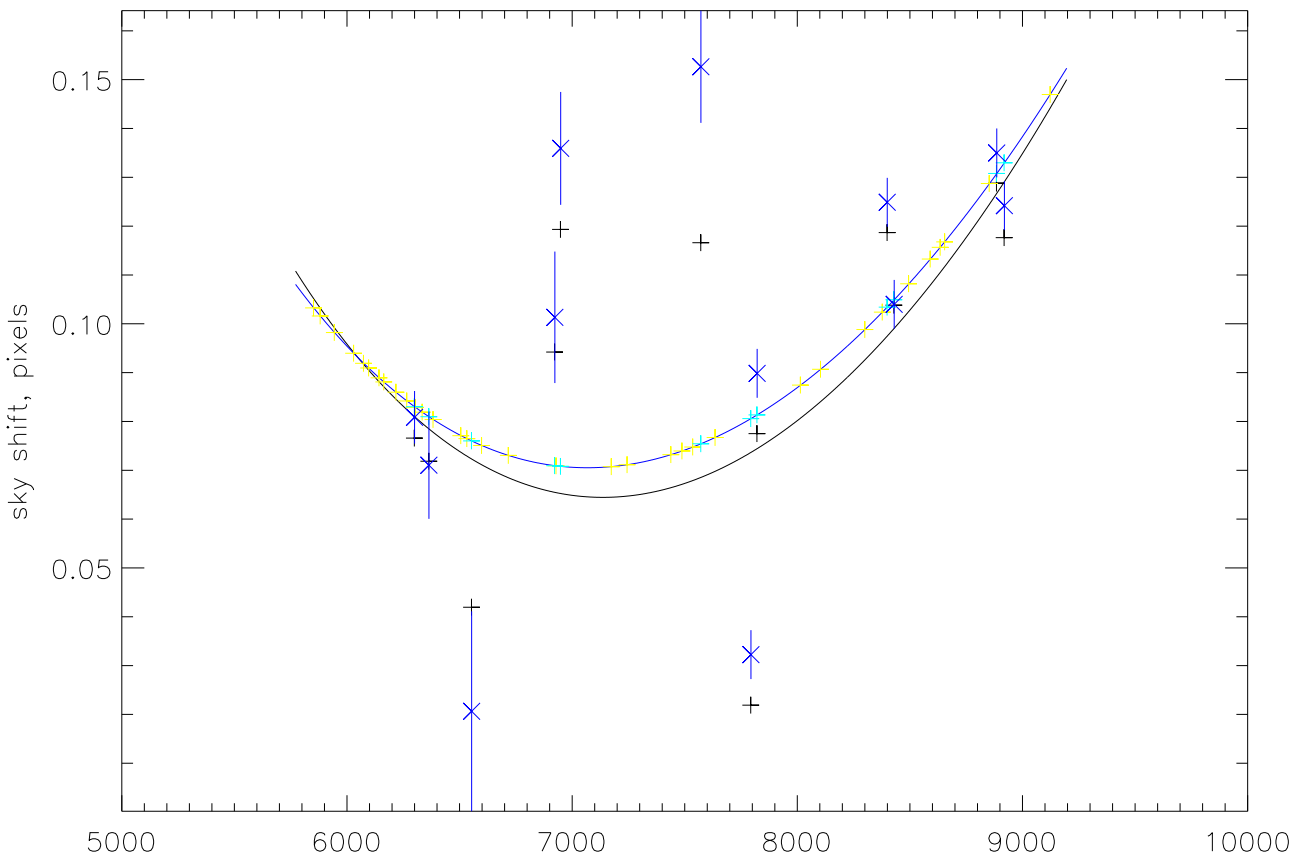

8399.1600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

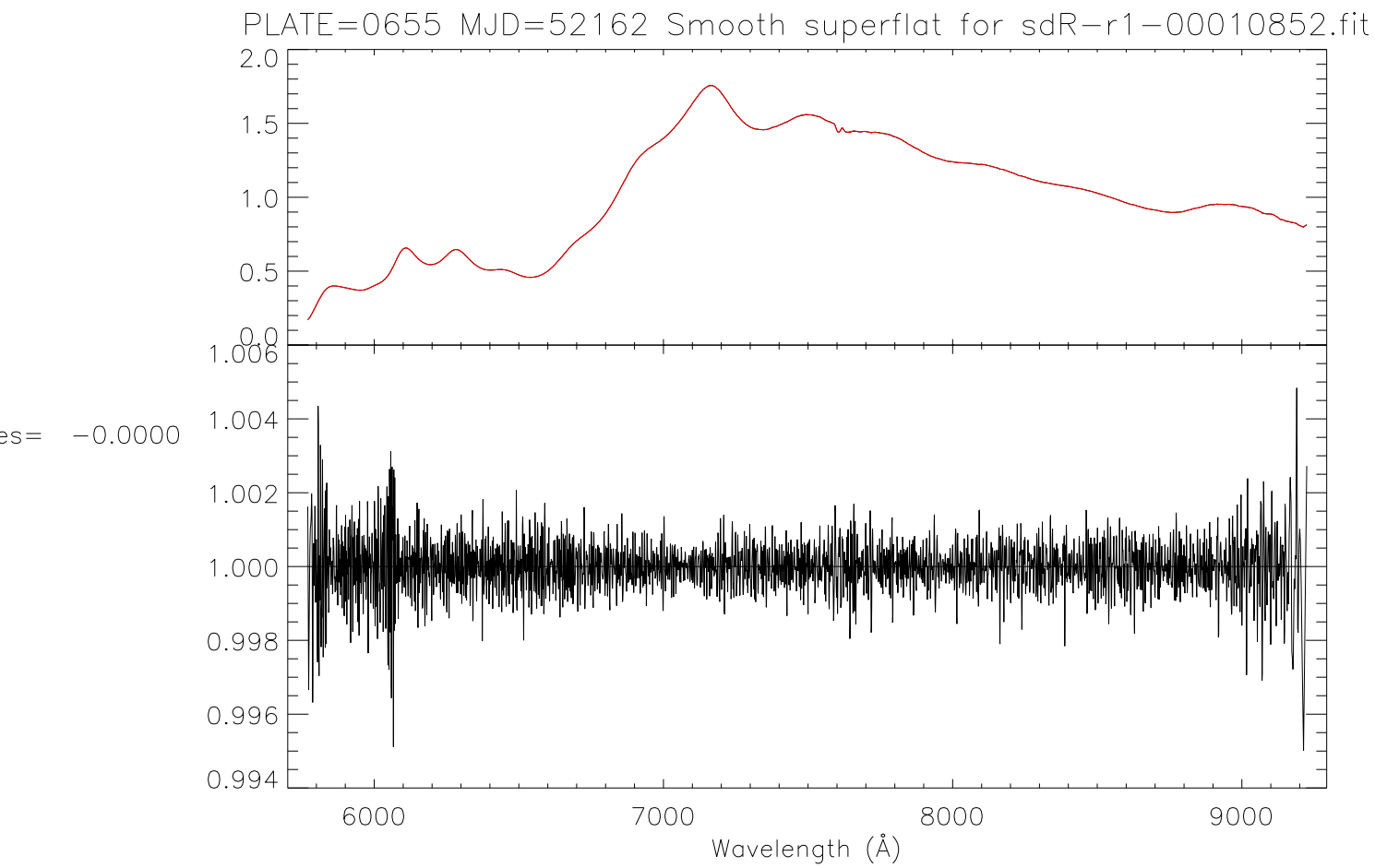

8430.1700
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

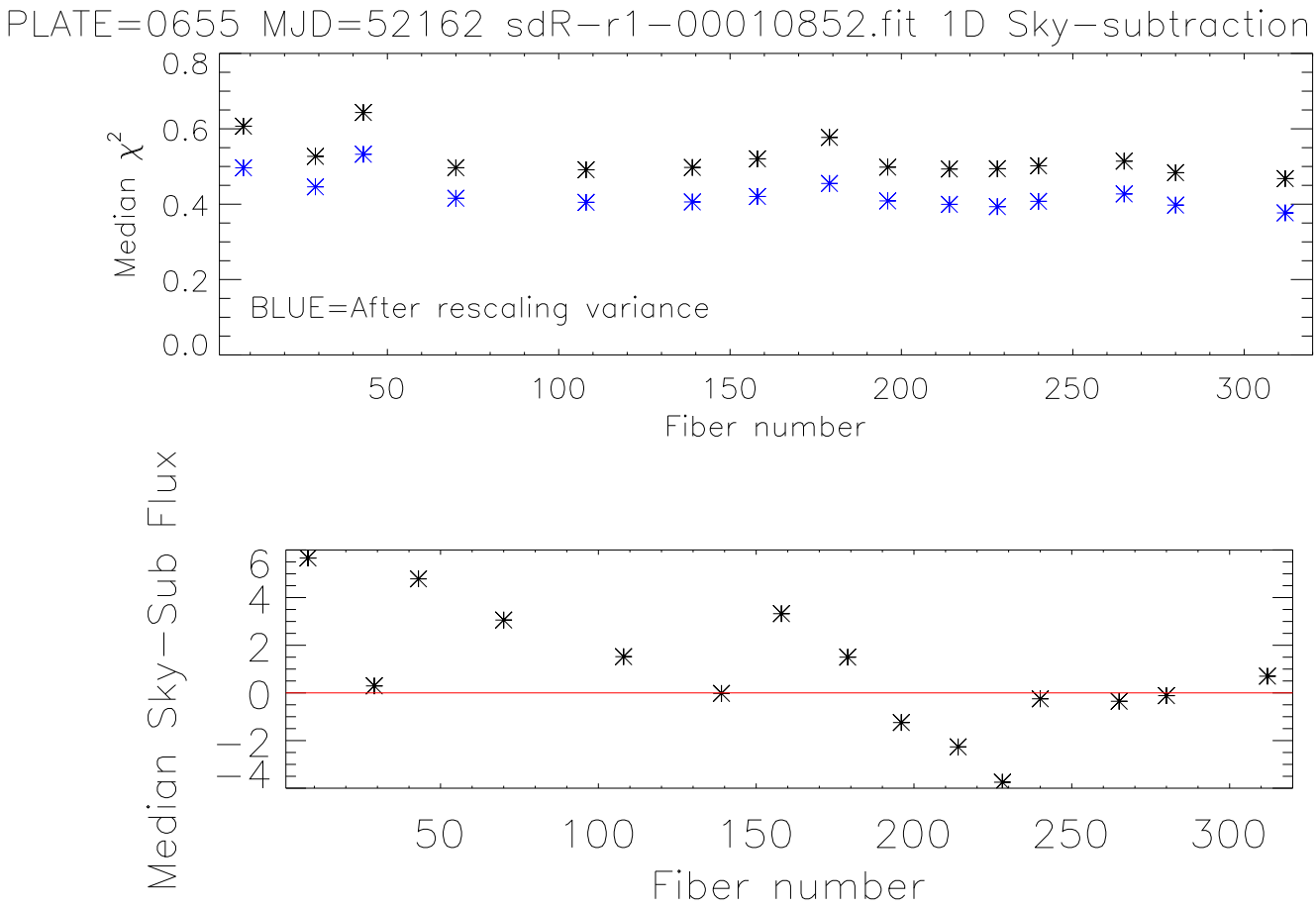

8919.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


6300.3040
stdev 0.020
extra 0.08
6363.7760
stdev 0.030
extra 0.07
6553.6100
stdev 0.048
extra 0.02
6923.2100
stdev 0.036
extra 0.10
6949.0300
stdev 0.031
extra 0.14
7571.7500
stdev 0.044
extra 0.15
7794.1200
stdev 0.038
extra 0.03
7821.5100
stdev 0.024
extra 0.09
8399.1600
stdev 0.017
extra 0.12
8430.1700
stdev 0.014
extra 0.10
8885.8300
stdev 0.023
extra 0.13
8919.6100
stdev 0.019
extra 0.12
meas − pred, pix
mfib1 15 16
mfib2 15 16

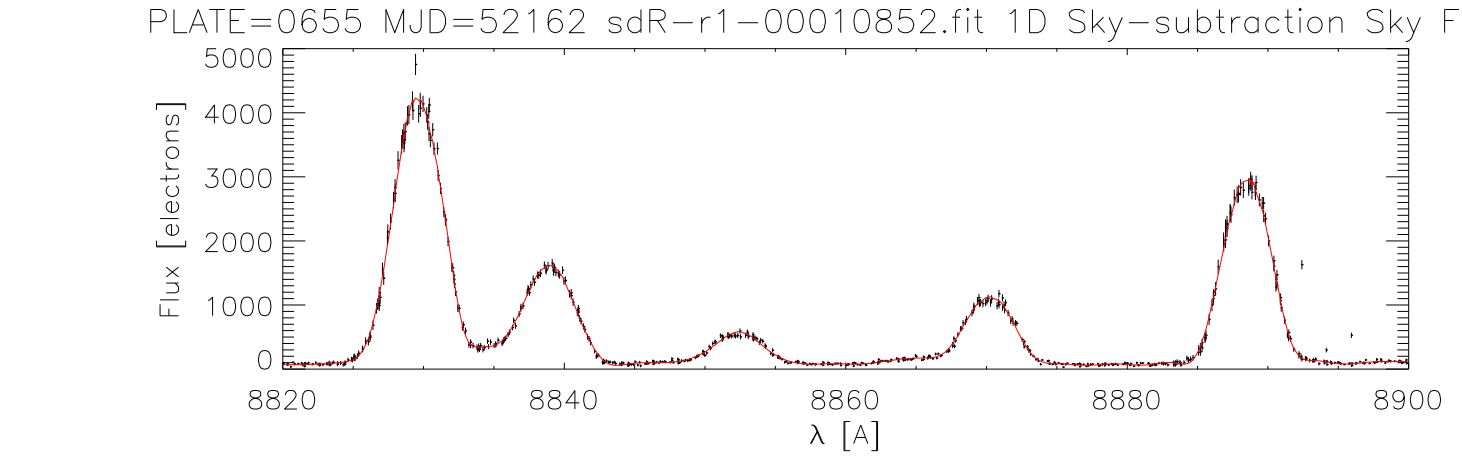

0.15
0.10
0.05
sky shift, pixels
5000
6000
7000
8000
9000
10000

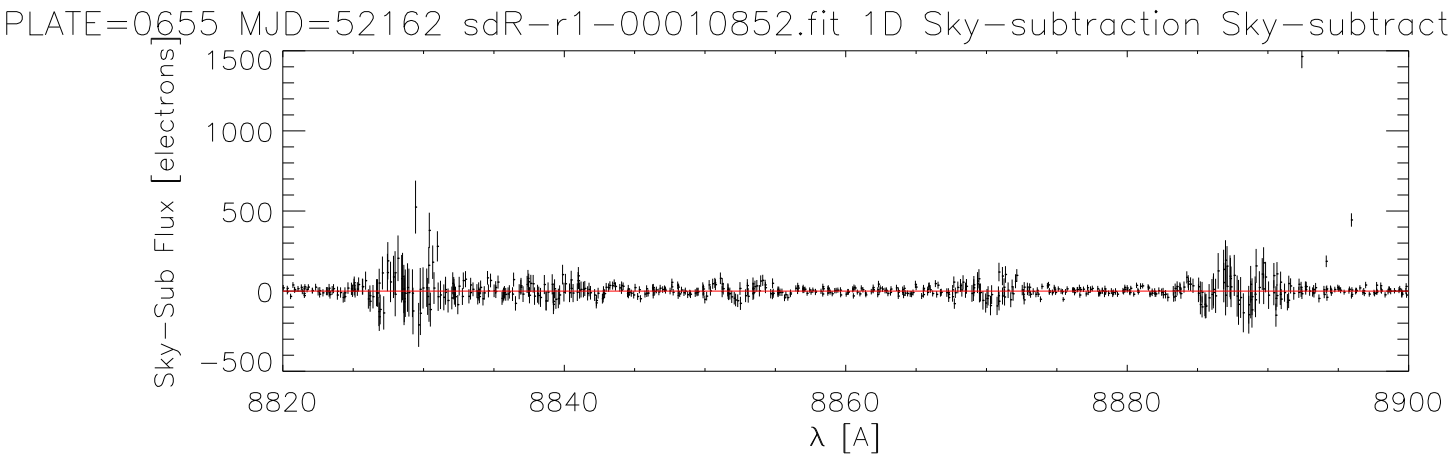

PLATE=0655 MJD=52162 Smooth superflat for sdR-r1-00010852.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
6000
7000
8000
9000
Wavelength (Å)

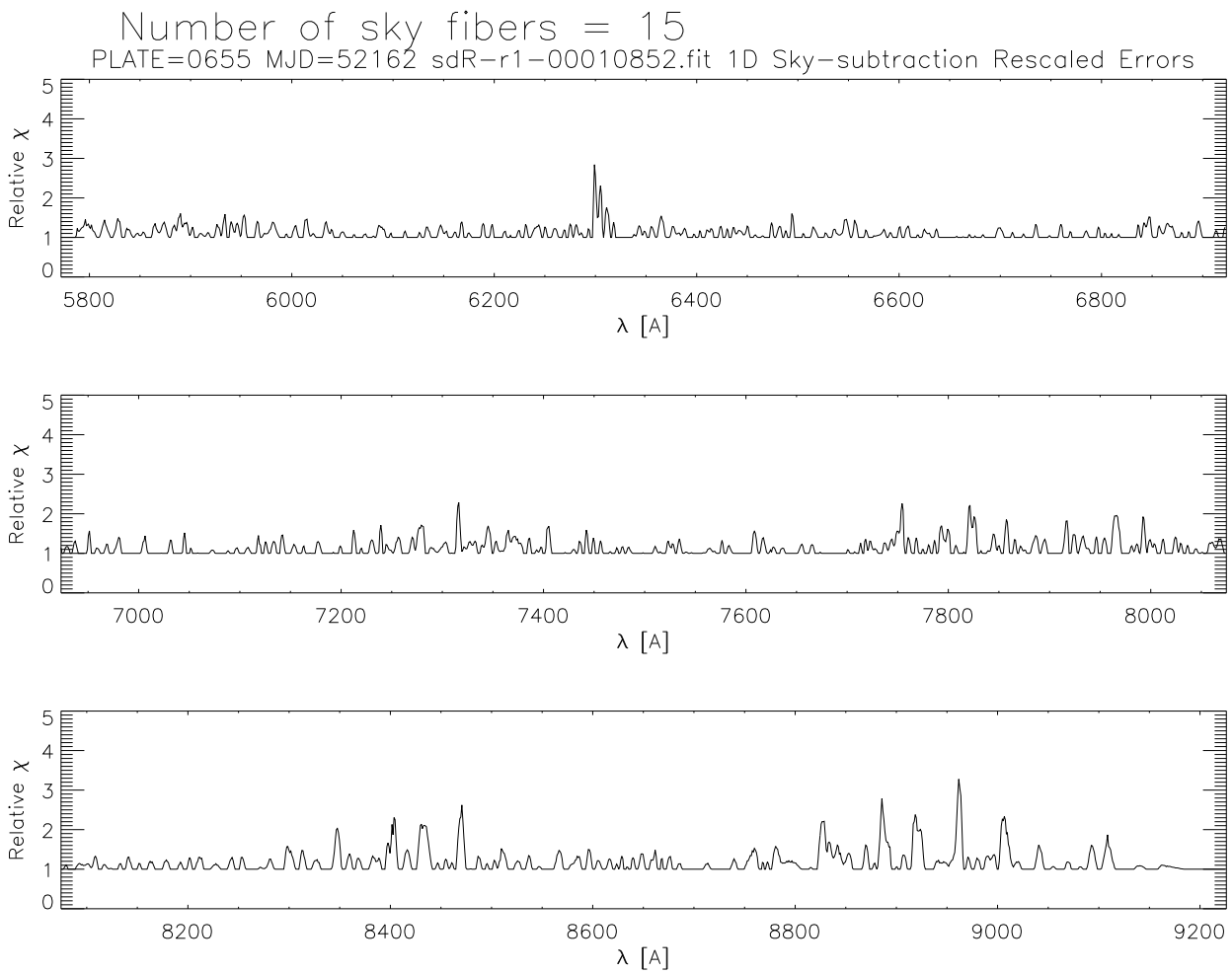
es= −0.0000

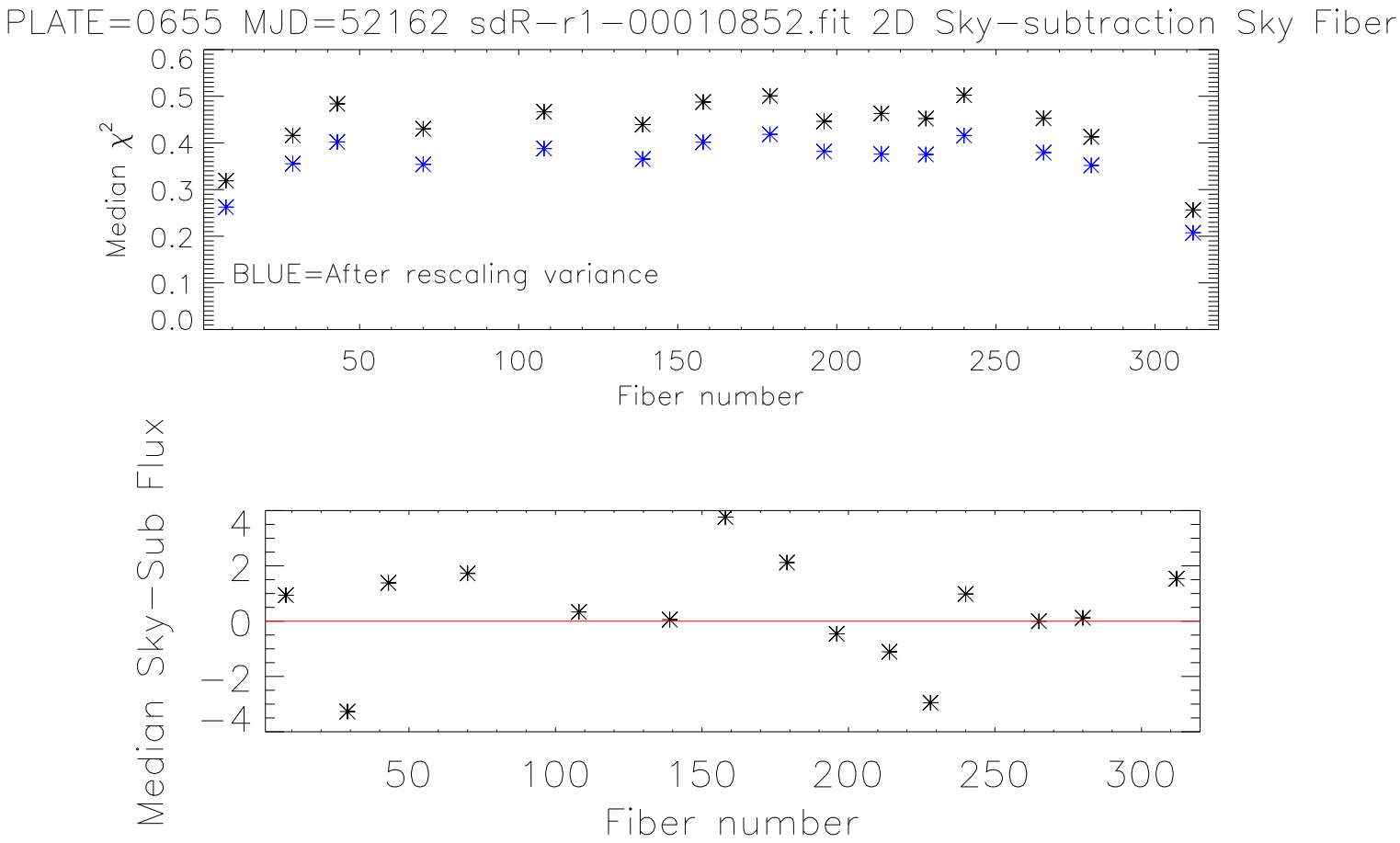

PLATE=0655 MJD=52162 sdR-r1-00010852.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

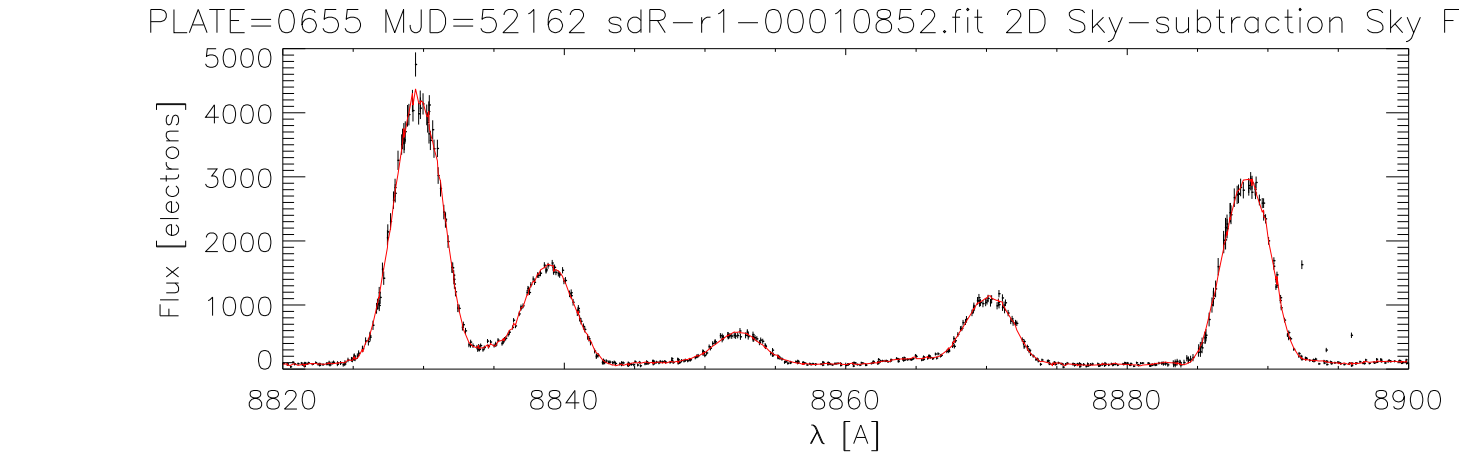
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

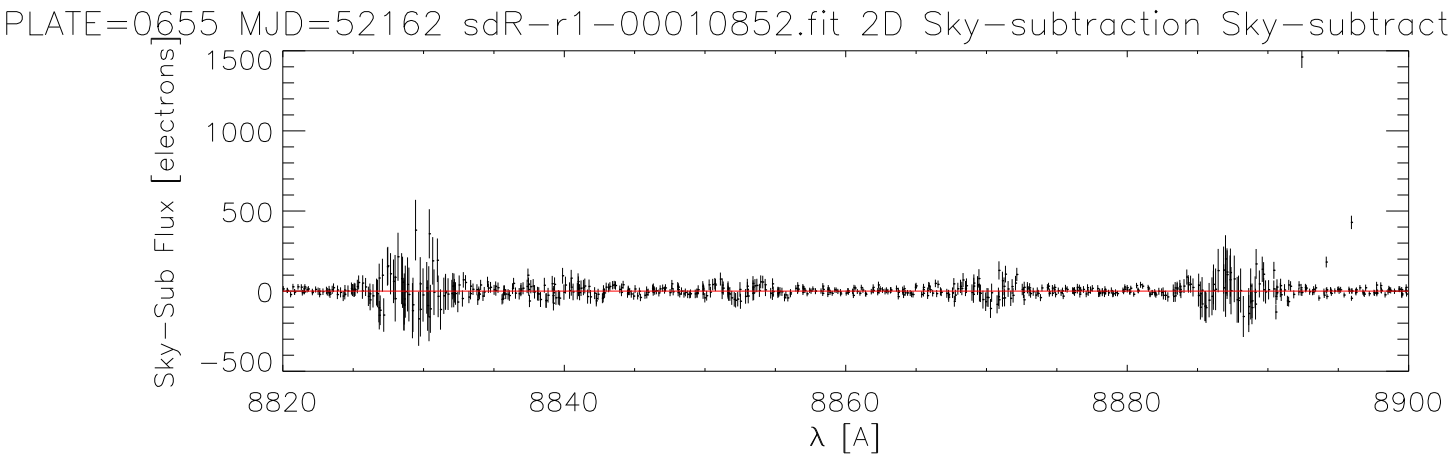

PLATE=0655 MJD=52162 sdR-r1-00010852.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

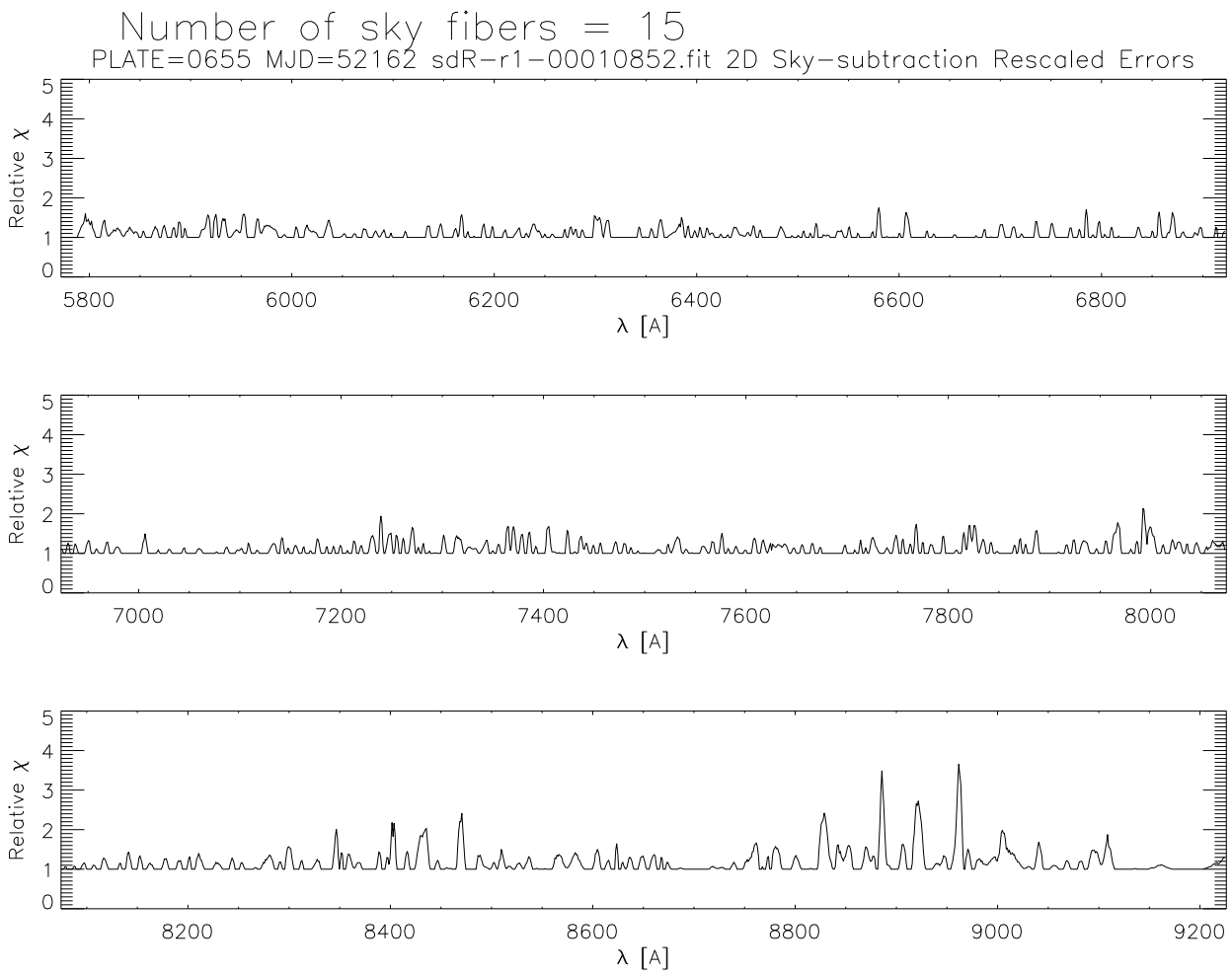

PLATE=0655 MJD=52162 sdR-r1-00010852.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

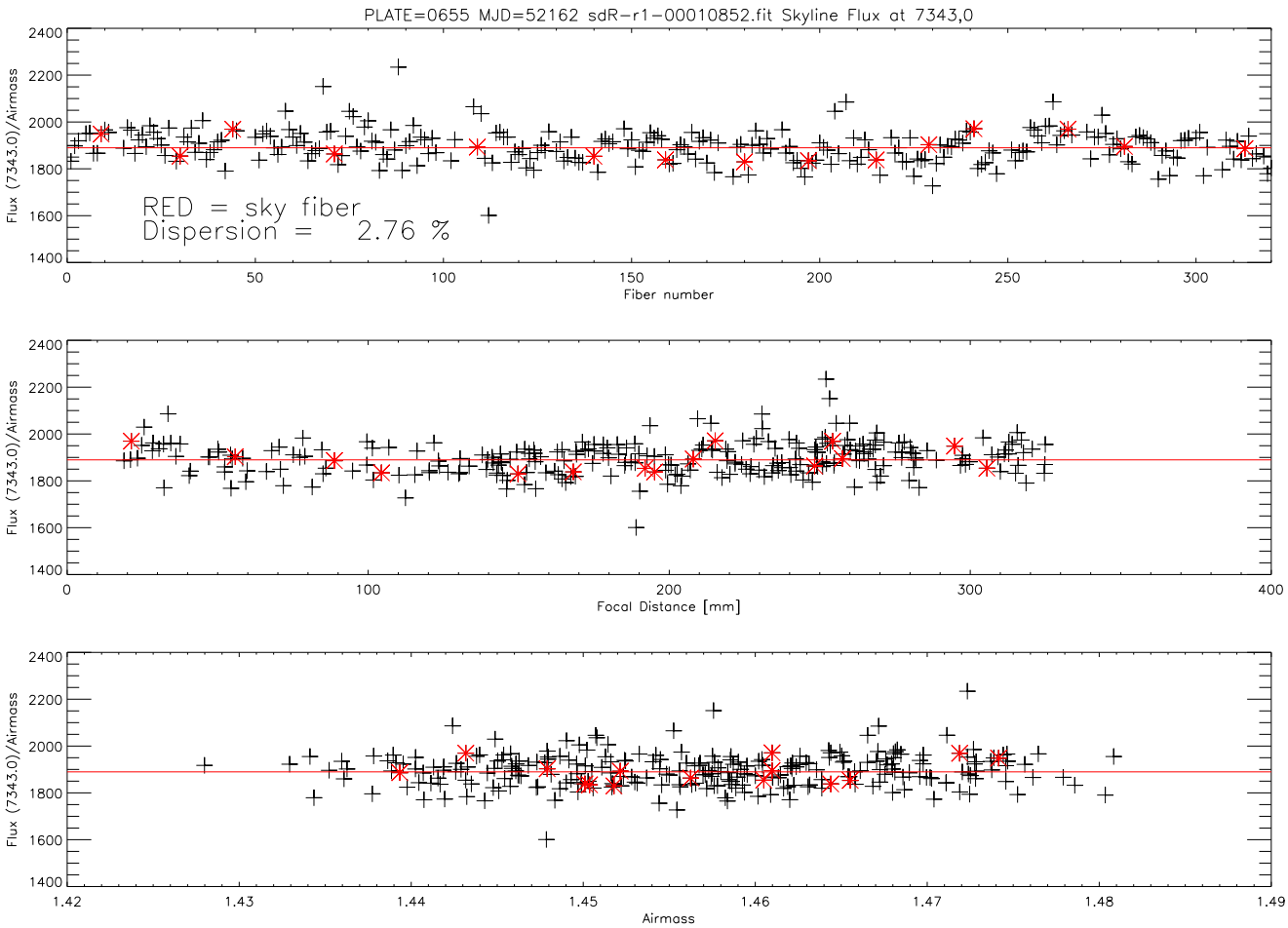

Number of sky fibers = 15
PLATE=0655 MJD=52162 sdR-r1-00010852.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

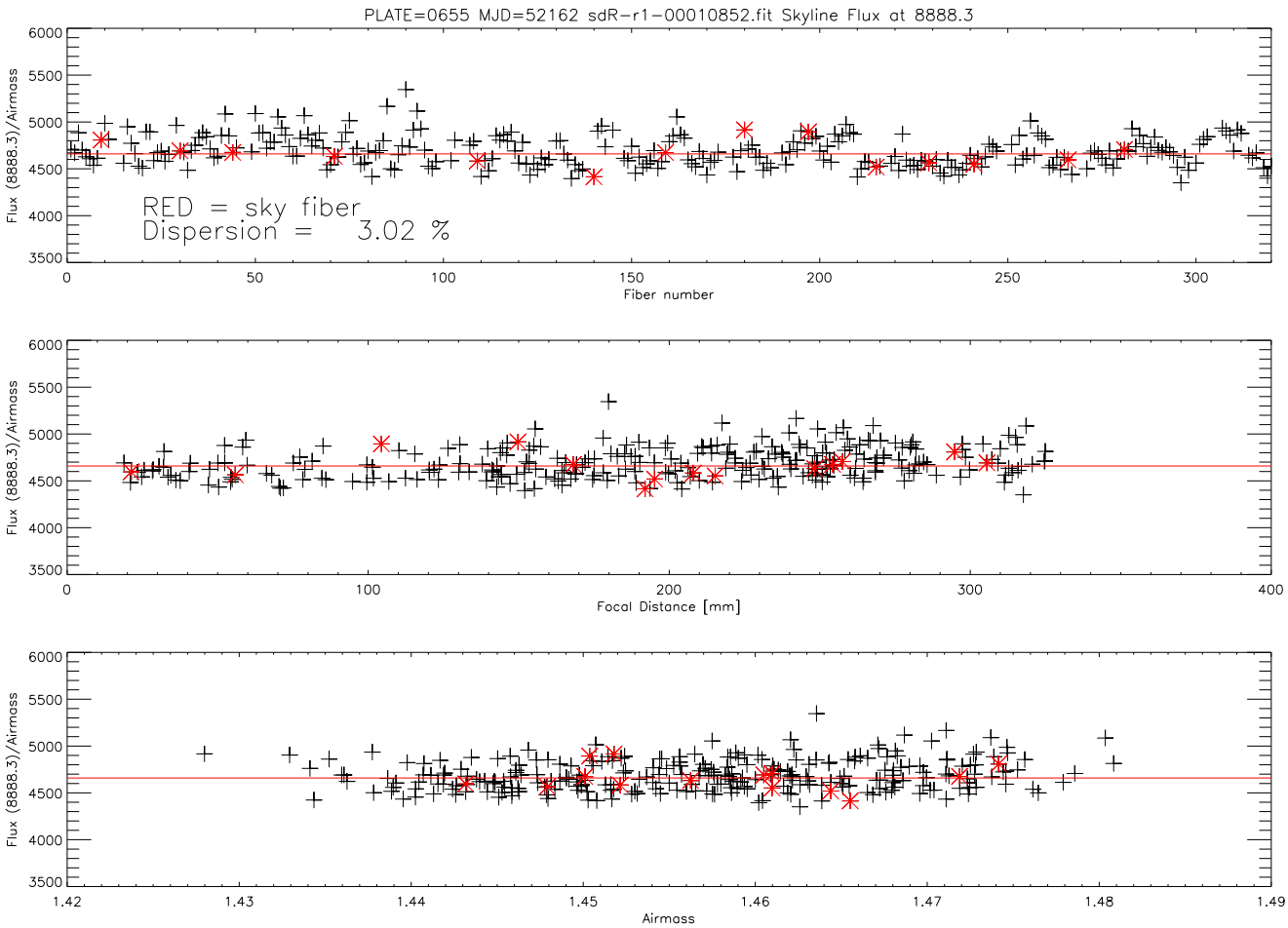

PLATE=0655 MJD=52162 sdR-r1-00010852.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

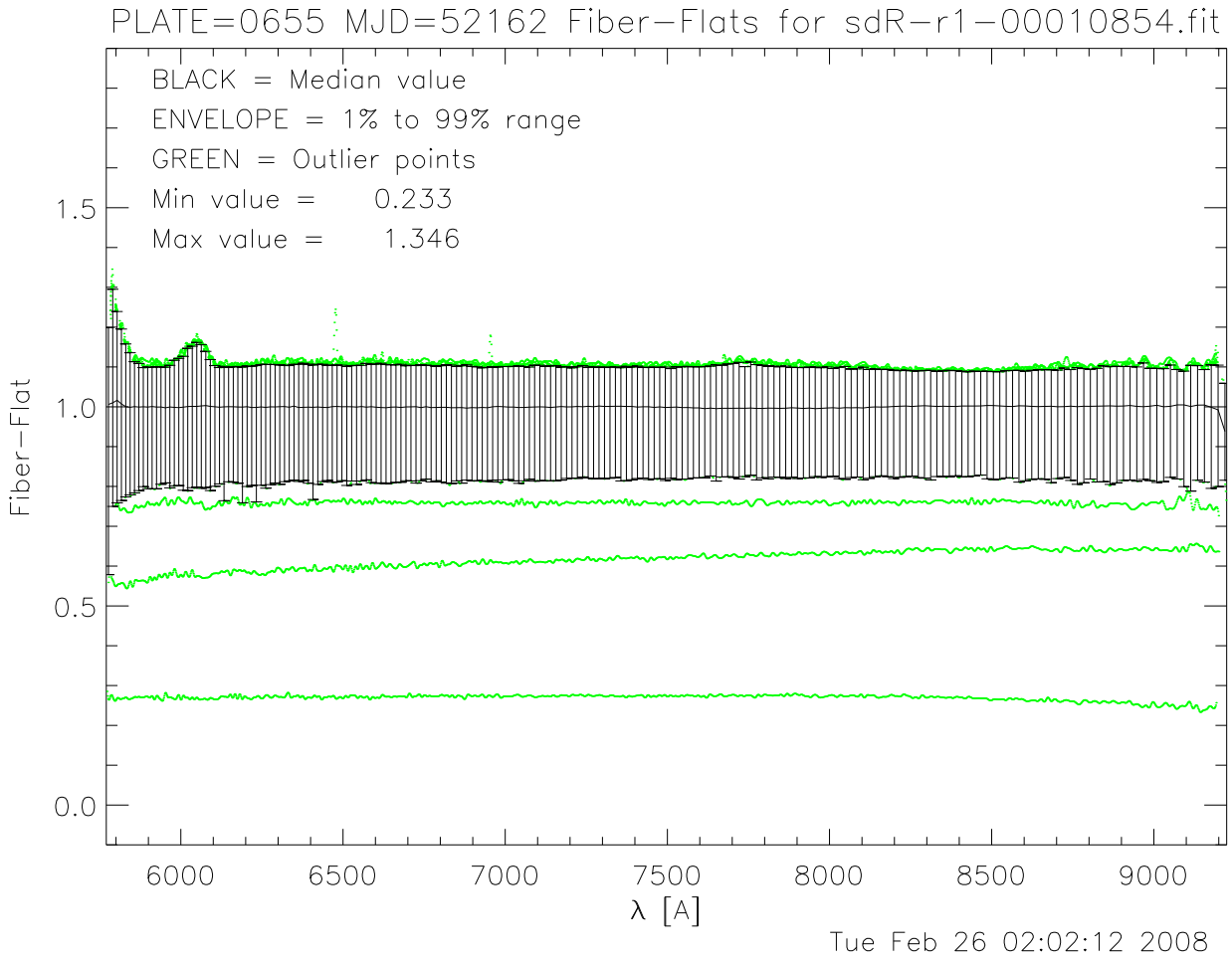

PLATE=0655 MJD=52162 sdR-r1-00010852.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

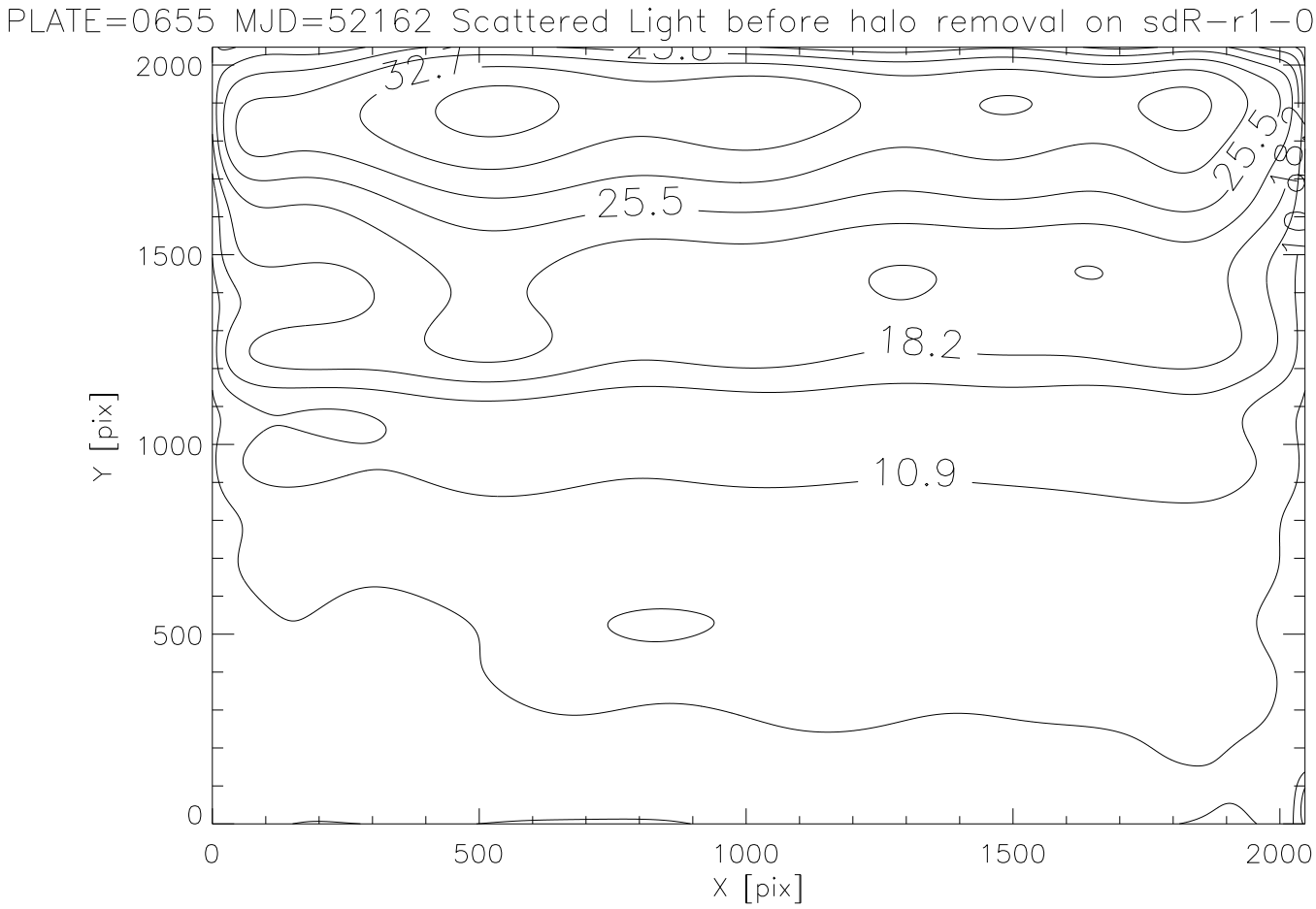

PLATE=0655 MJD=52162 sdR-r1-00010852.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

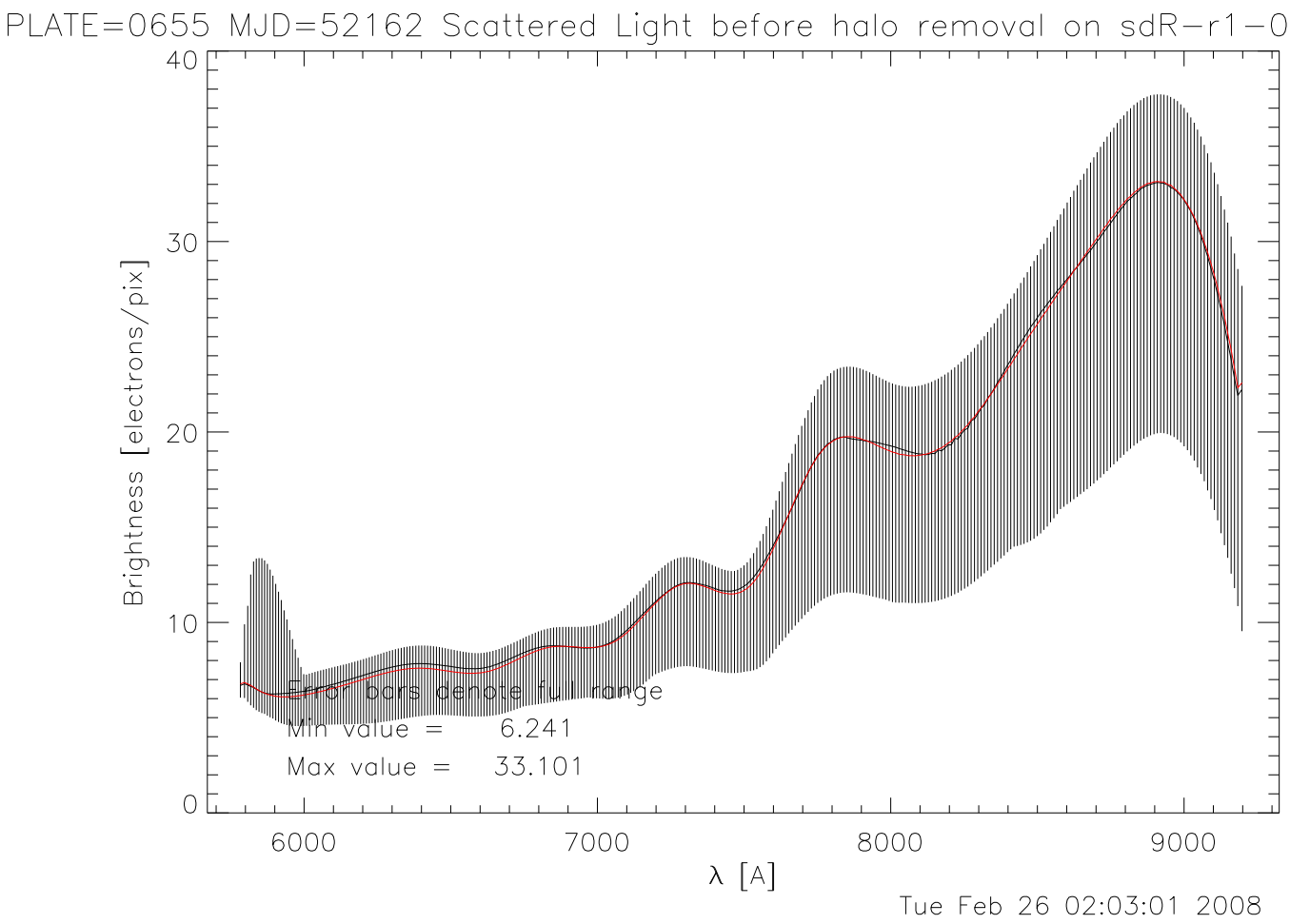

Number of sky fibers = 15
PLATE=0655 MJD=52162 sdR-r1-00010852.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

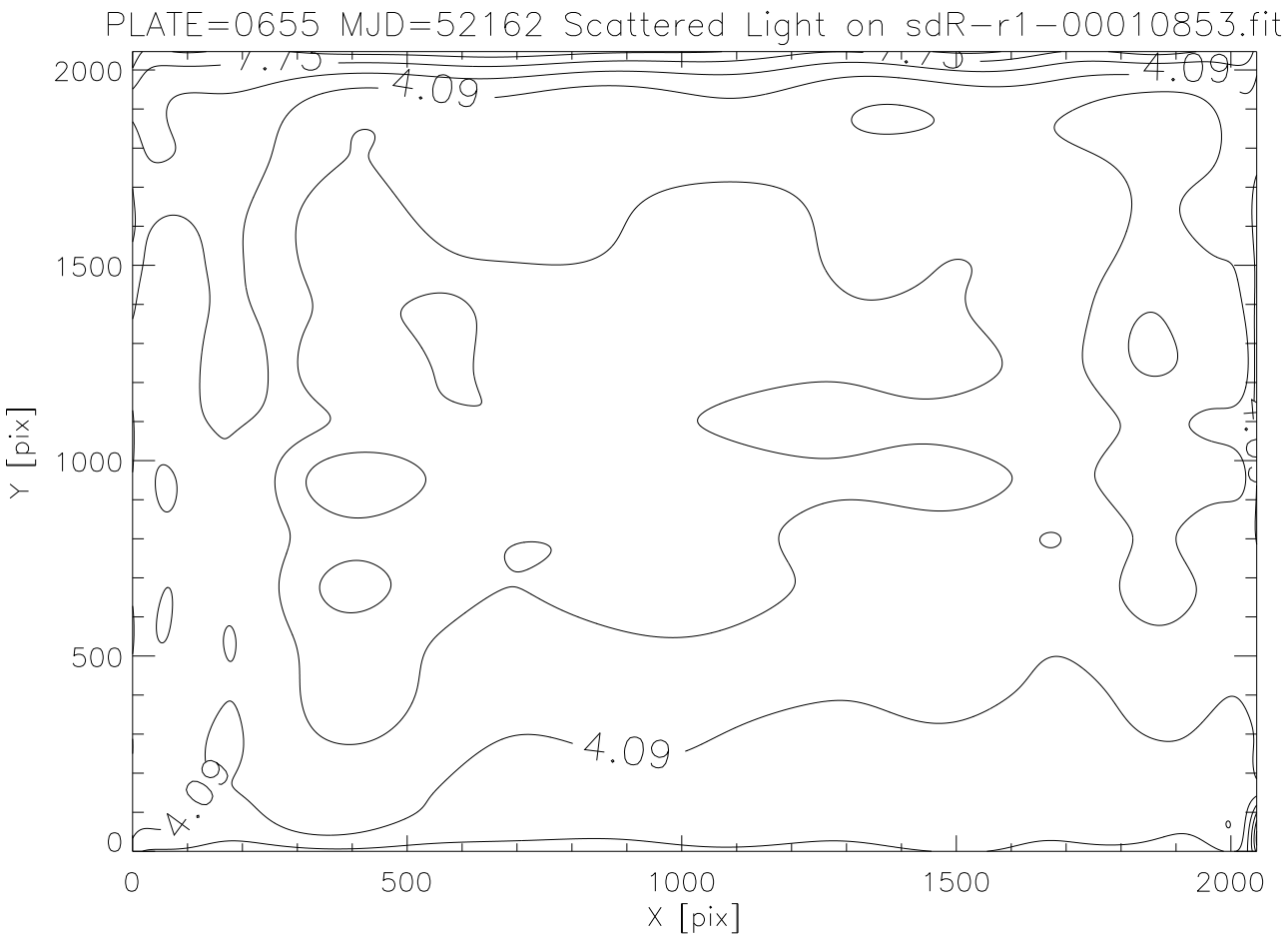

PLATE=0655 MJD=52162 sdR-r1-00010852.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.76 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

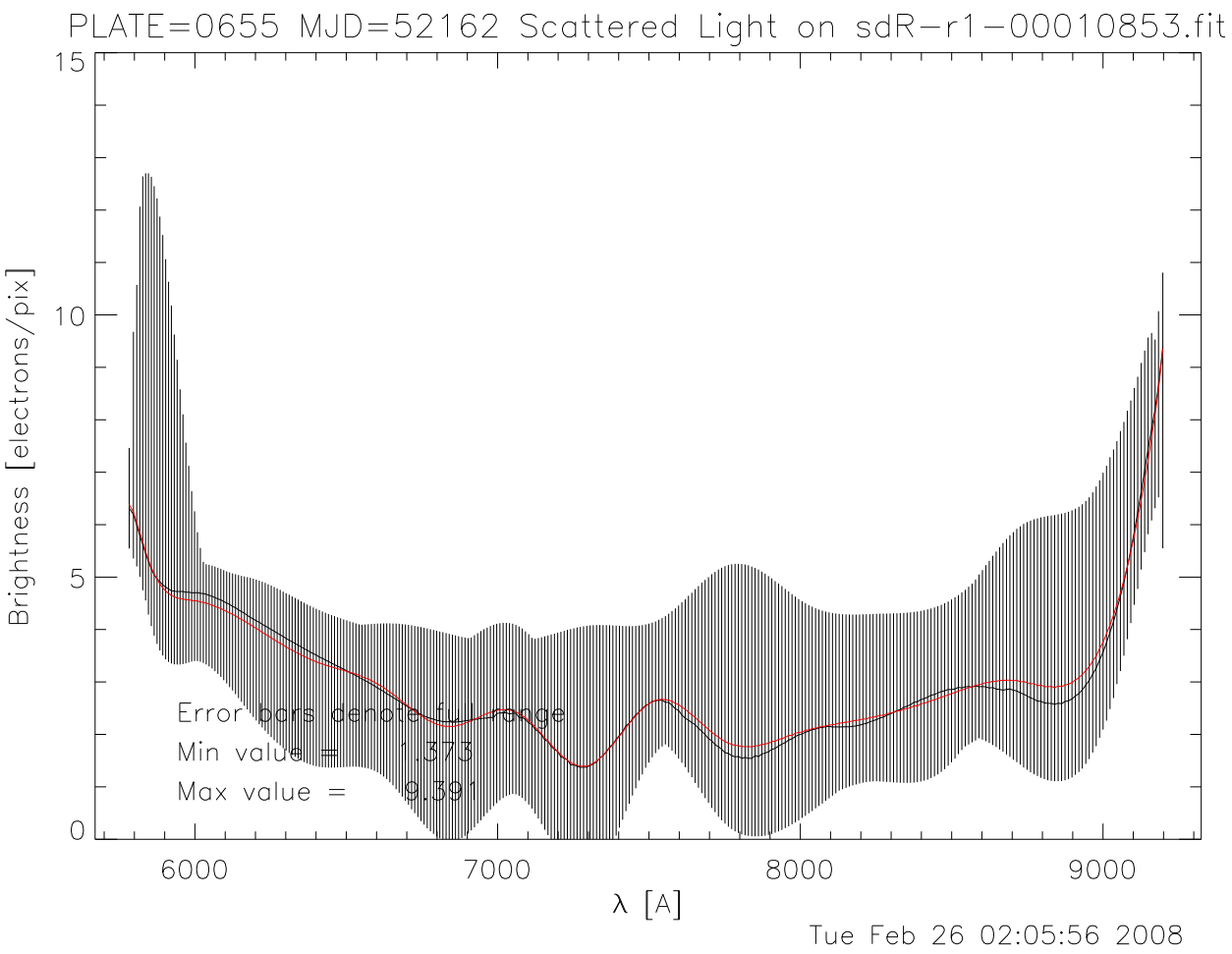

PLATE=0655 MJD=52162 sdR-r1-00010852.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.02 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

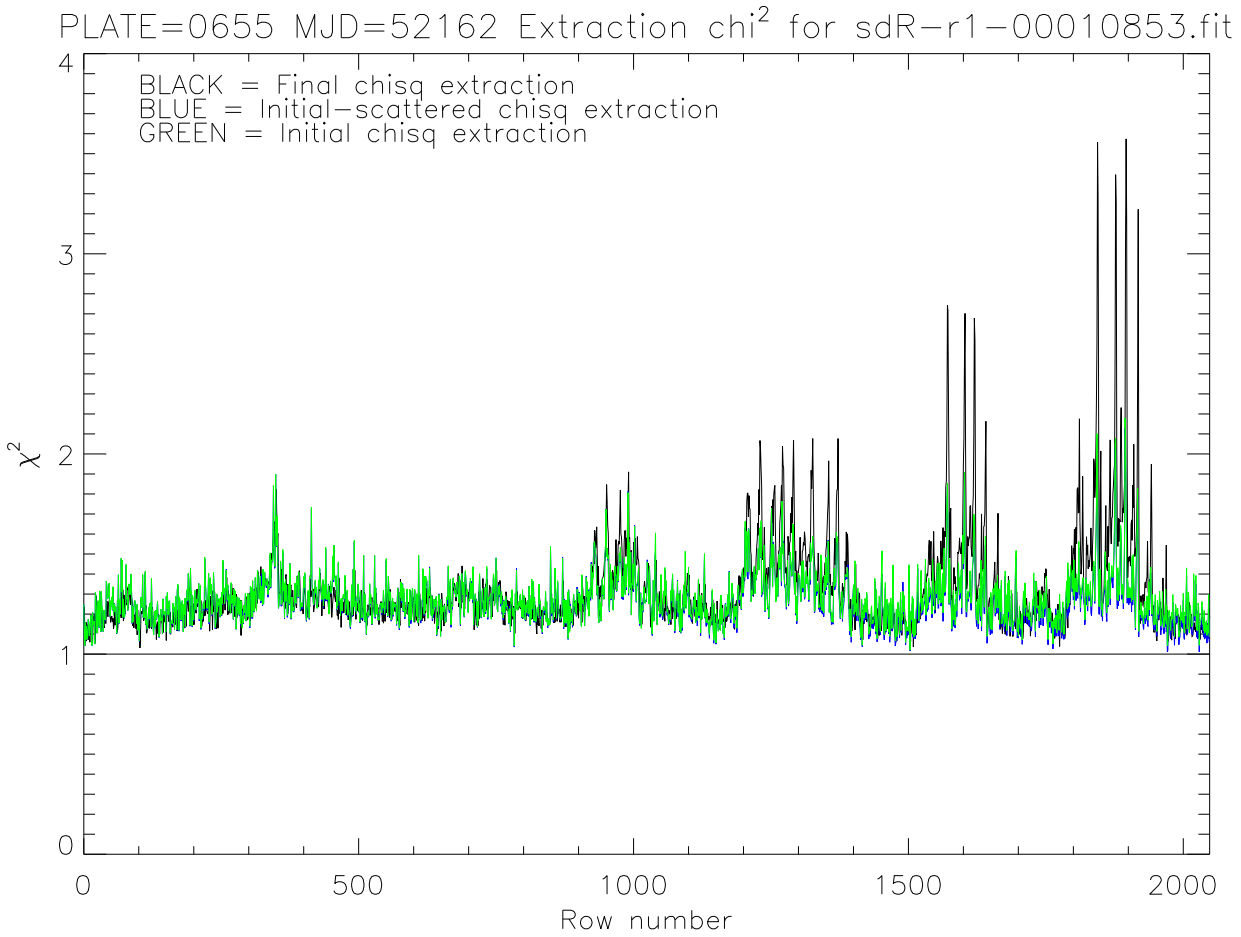

PLATE=0655 MJD=52162 Fiber−Flats for sdR−r1−00010854.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.233
Max value = 1.346
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Tue Feb 26 02:02:12 2008

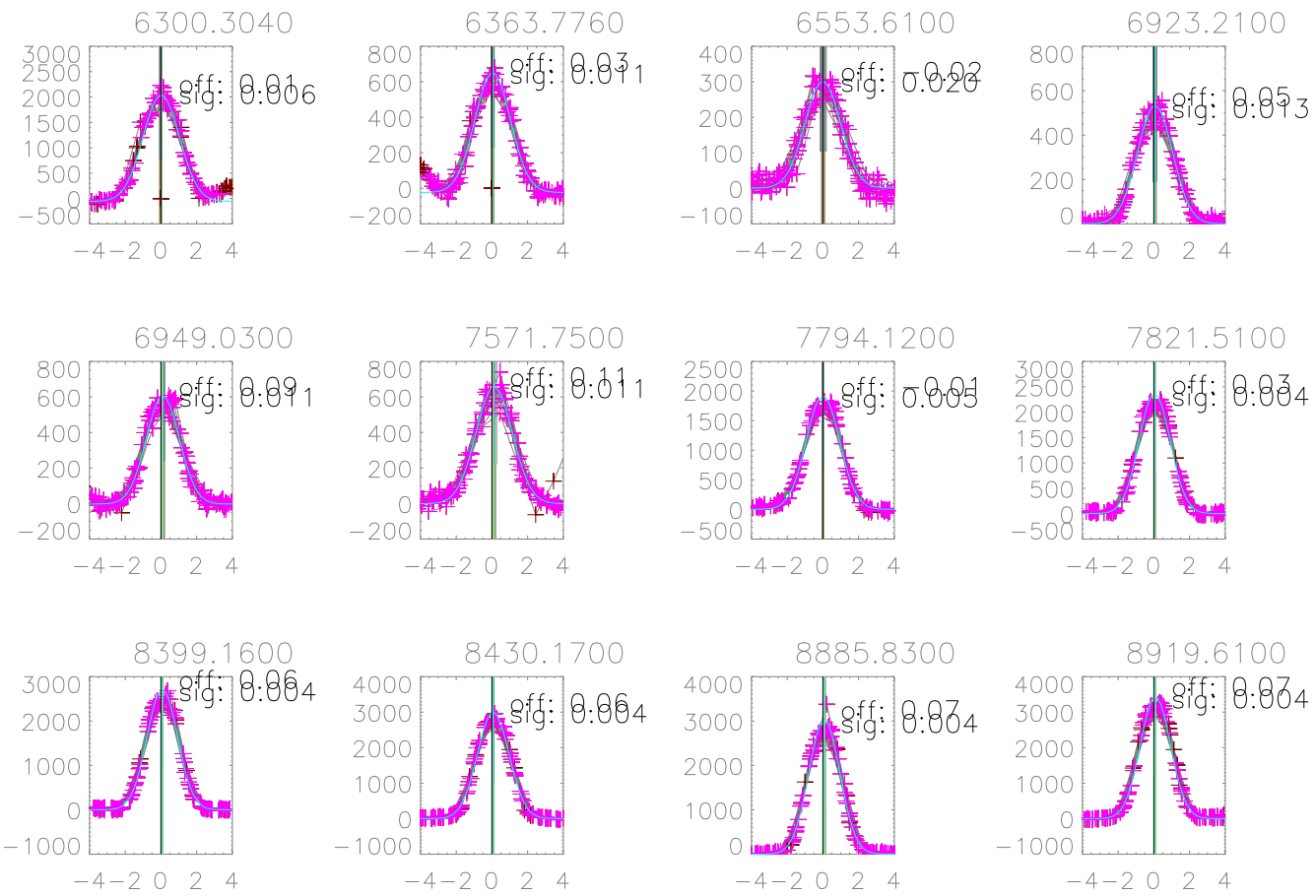

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-r1-00010853.fi
32.7
25.5
18.2
10.9
Y [pix]
X [pix]
0
500
1000
1500
2000

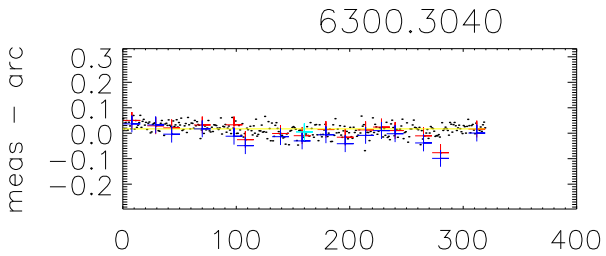

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-r1-00010853.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.241
Max value = 33.101
Tue Feb 26 02:03:01 2008

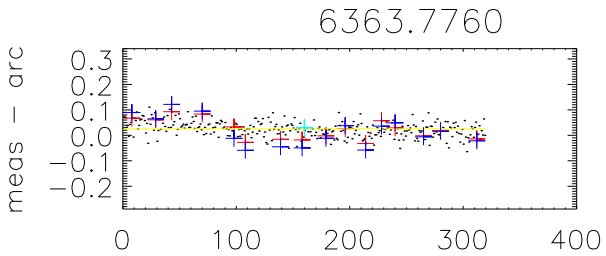

PLATE=0655 MJD=52162 Scattered Light on sdR-r1-00010853.fit
4.09
4.09
4.09
4.09
0
0
500
1000
1500
2000
Y [pix]
X [pix]

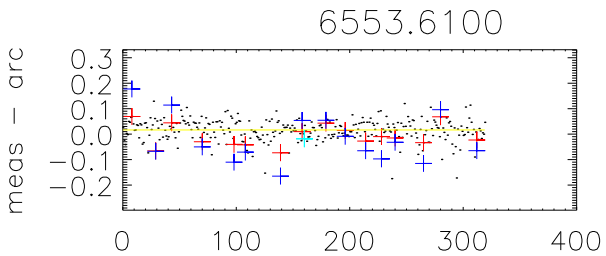

PLATE=0655 MJD=52162 Scattered Light on sdR-r1-00010853.fit
Brightness [electrons/pix]
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote 1-σ range
Min value = -1.373
Max value = 9.391
Tue Feb 26 02:05:56 2008

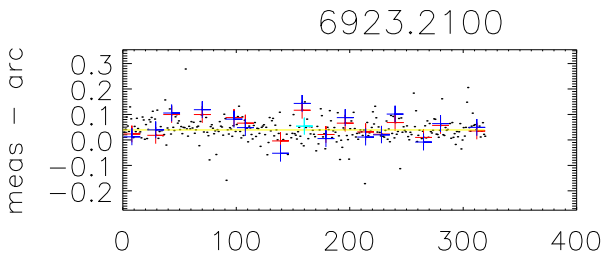

PLATE=0655 MJD=52162 Extraction chi^2 for sdR−r1−00010853.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

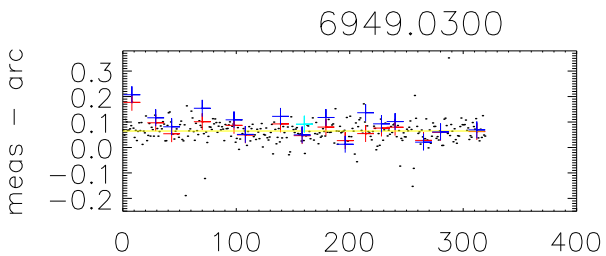

6300.3040
off: 0.01
sig: 0.006
6363.7760
off: 0.03
sig: 0.011
6553.6100
off: -0.02
sig: 0.020
6923.2100
off: 0.05
sig: 0.013
6949.0300
off: 0.09
sig: 0.011
7571.7500
off: 0.11
sig: 0.011
7794.1200
off: -0.01
sig: 0.005
7821.5100
off: 0.03
sig: 0.004
8399.1600
off: 0.06
sig: 0.004
8430.1700
off: 0.06
sig: 0.004
8885.8300
off: 0.07
sig: 0.004
8919.6100
off: 0.07
sig: 0.004

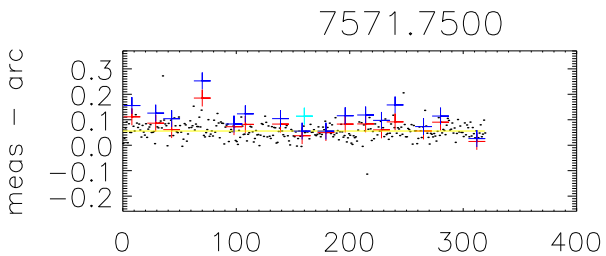

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

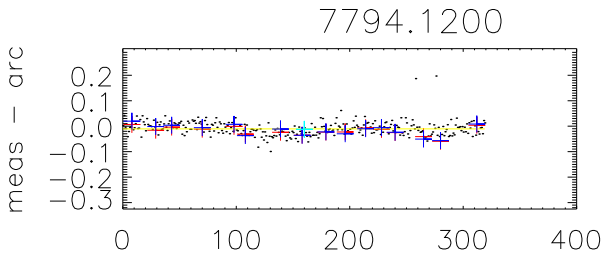

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

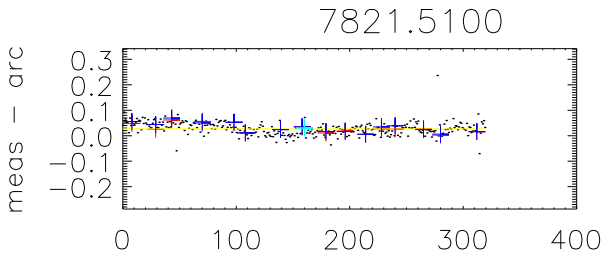

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

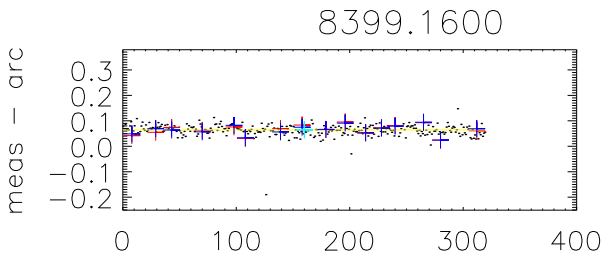

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

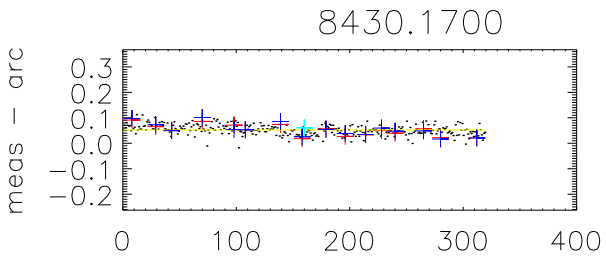

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

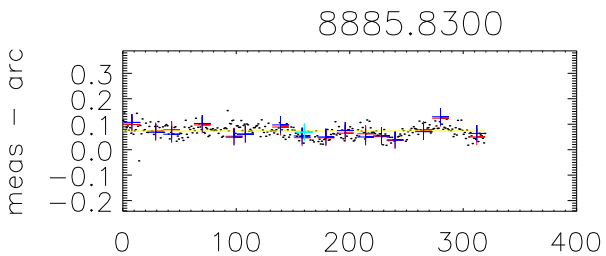

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

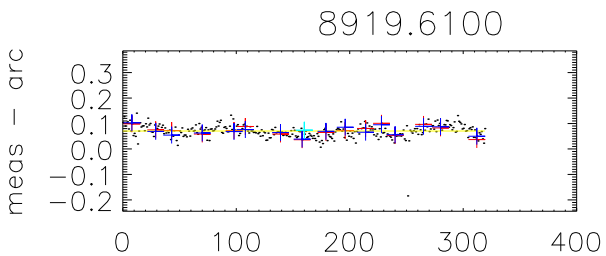

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

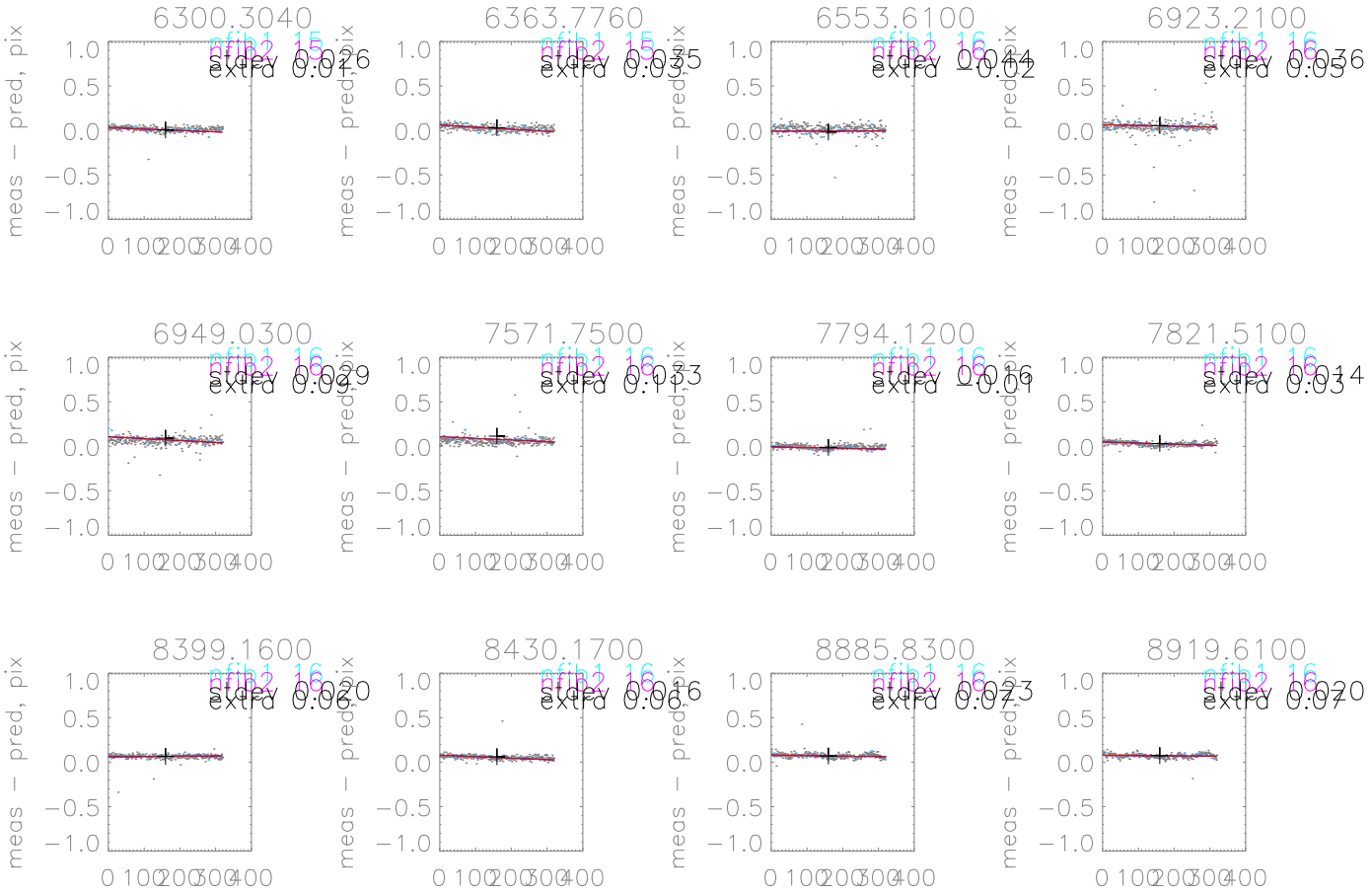

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

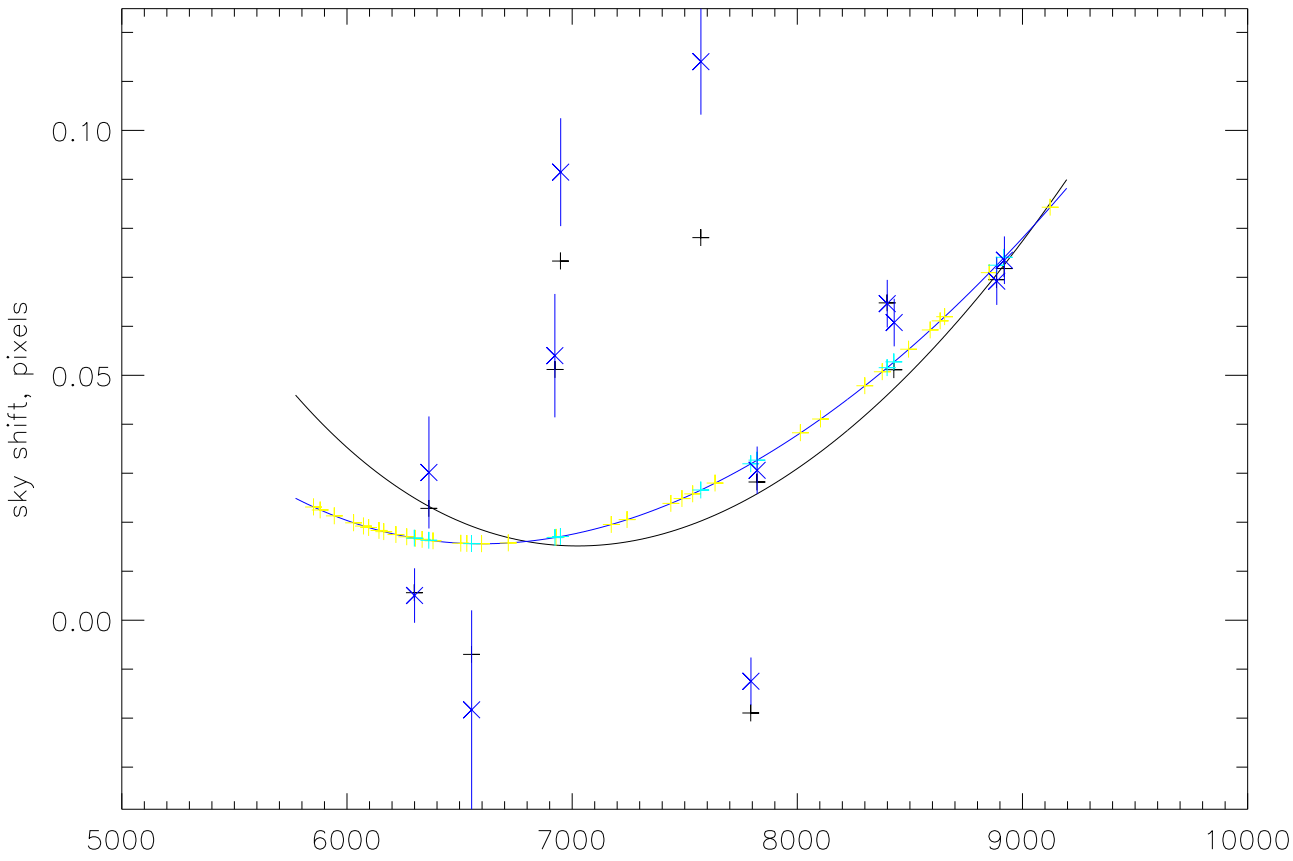

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

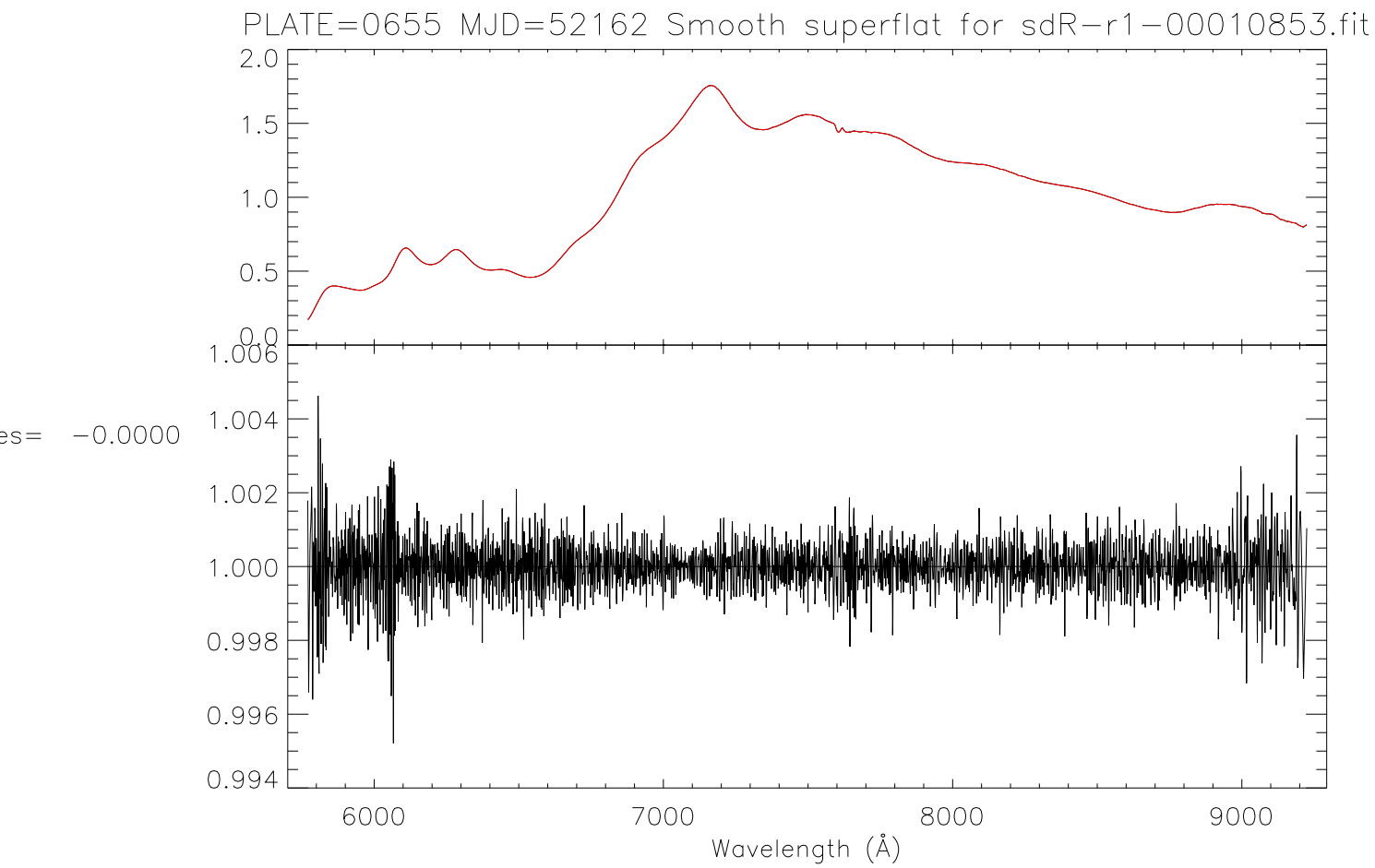

8430.1700
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

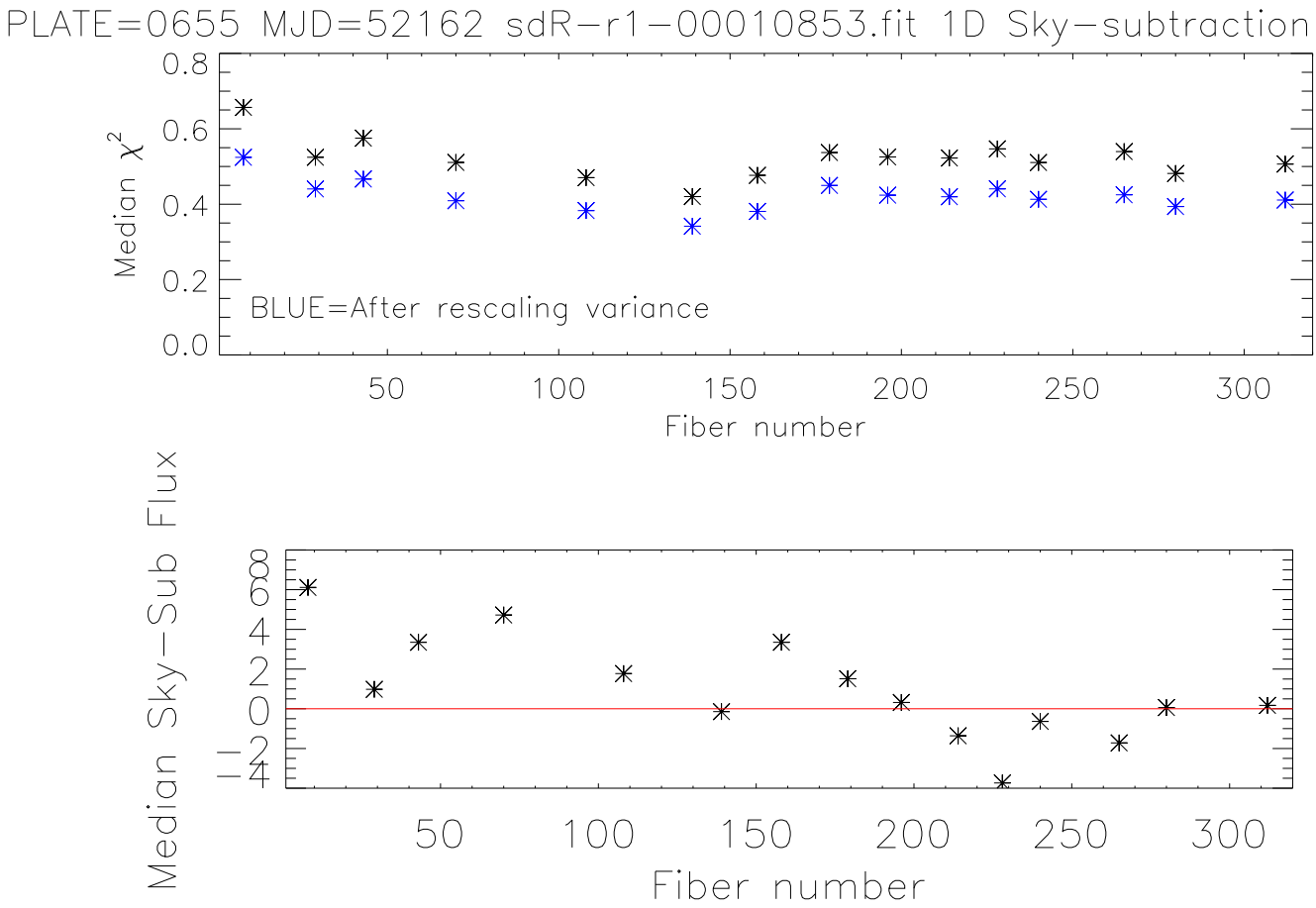

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


6300.3040
stdev 0.026
extra 0.01
6363.7760
stdev 0.035
extra 0.03
6553.6100
stdev 0.044
extra −0.02
6923.2100
stdev 0.036
extra 0.05
6949.0300
stdev 0.029
extra 0.04
7571.7500
stdev 0.033
extra 0.11
7794.1200
stdev 0.046
extra −0.01
7821.5100
stdev 0.014
extra 0.03
8399.1600
stdev 0.020
extra 0.06
8430.1700
stdev 0.046
extra 0.06
8885.8300
stdev 0.023
extra 0.07
8919.6100
stdev 0.020
extra 0.07
meas − pred, pix
mfib1 16
mfib2 15
mfib2 16

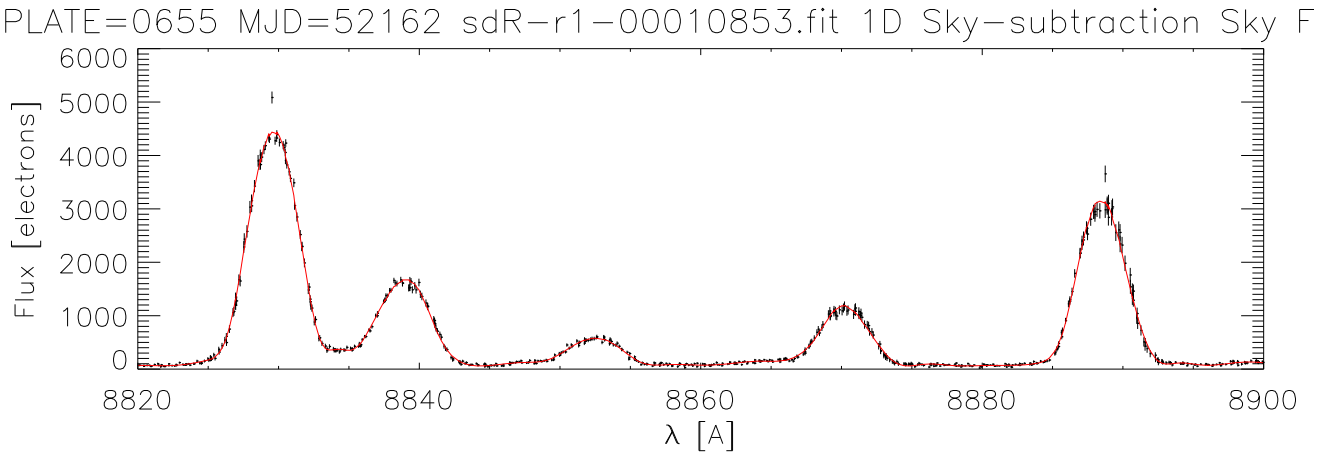

0.10
0.05
0.00
sky shift, pixels
5000
6000
7000
8000
9000
10000

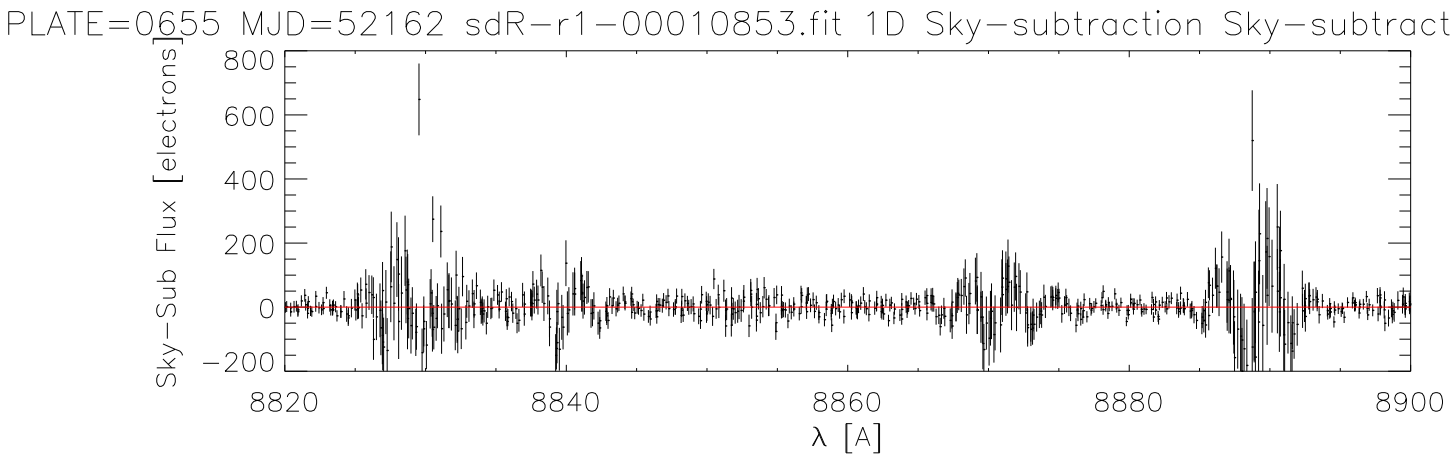

PLATE=0655 MJD=52162 Smooth superflat for sdR-r1-00010853.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
6000
7000
8000
9000
Wavelength (Å)

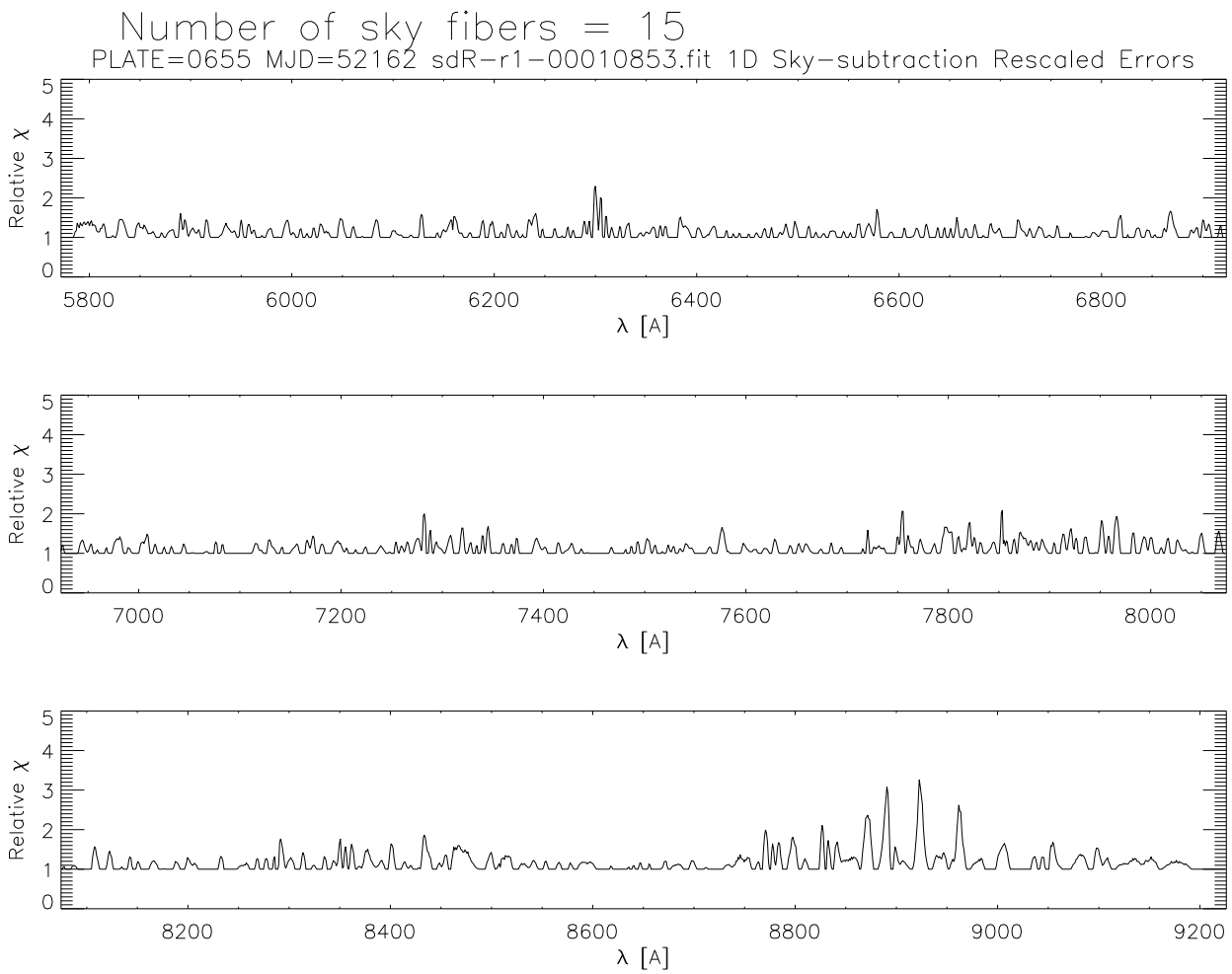
es= −0.0000

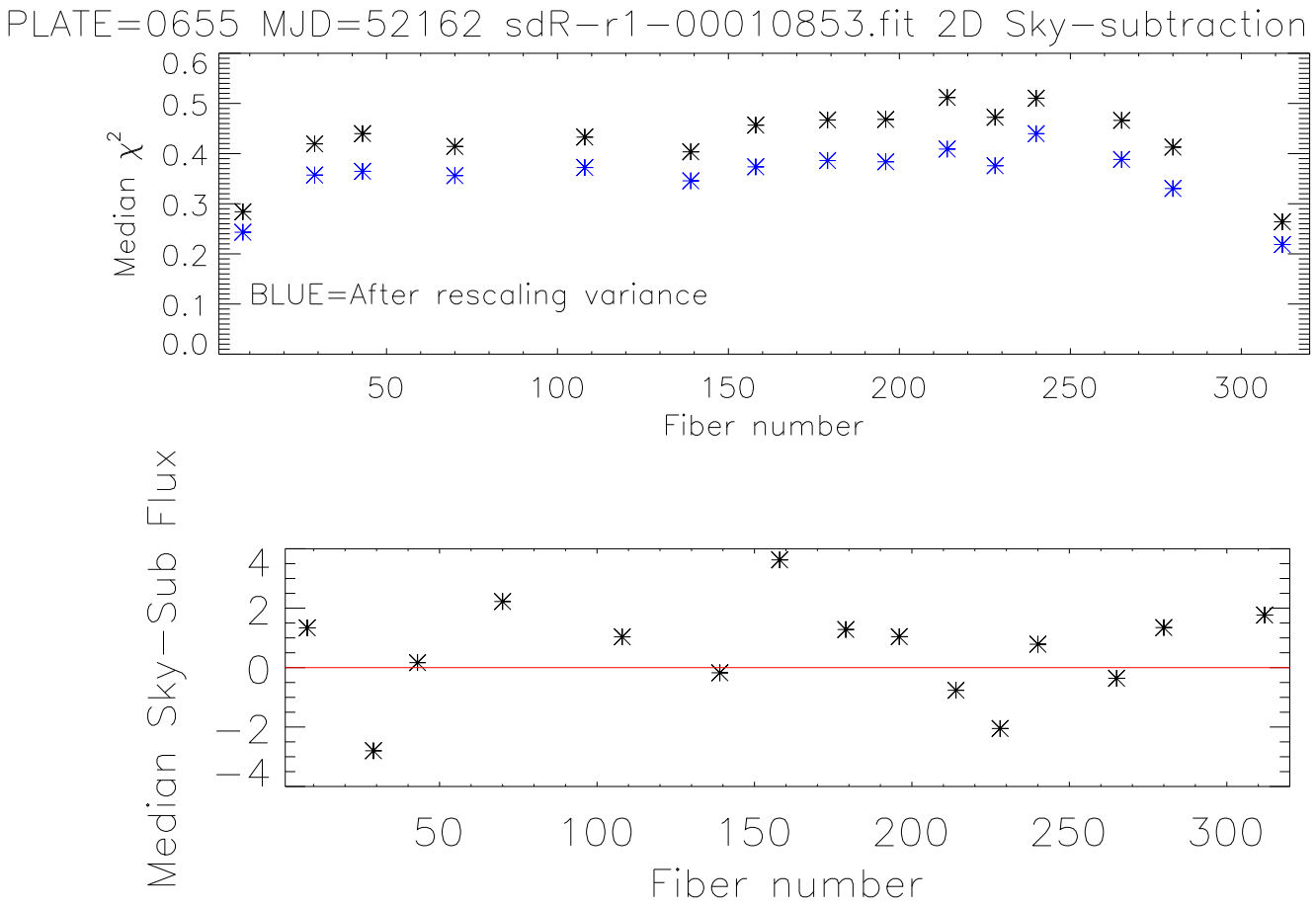

PLATE=0655 MJD=52162 sdR-r1-00010853.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

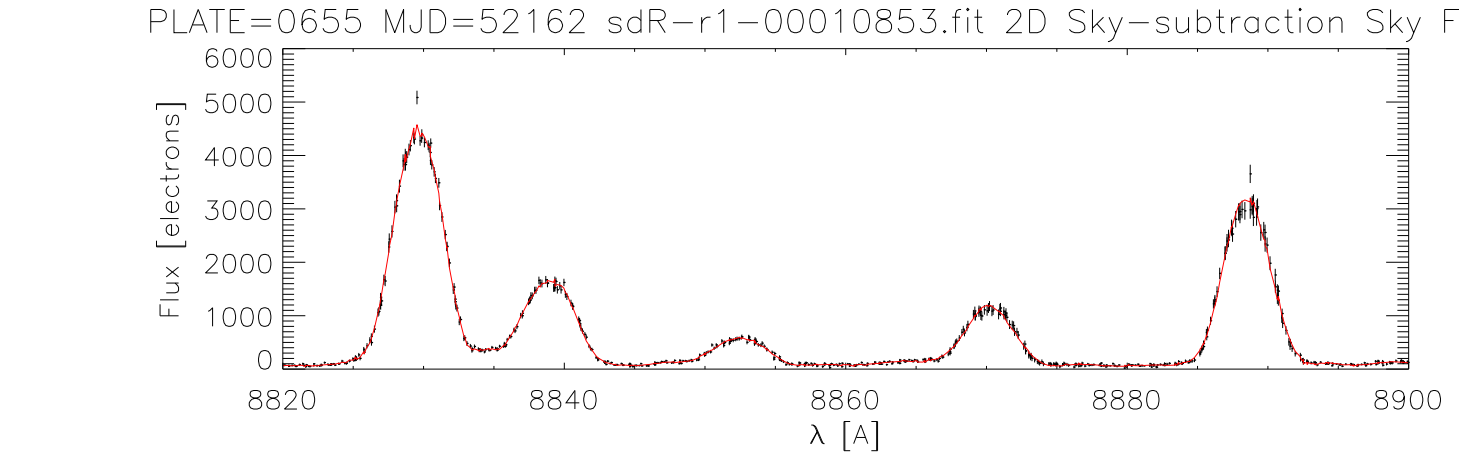
Median Sky-Sub Flux
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

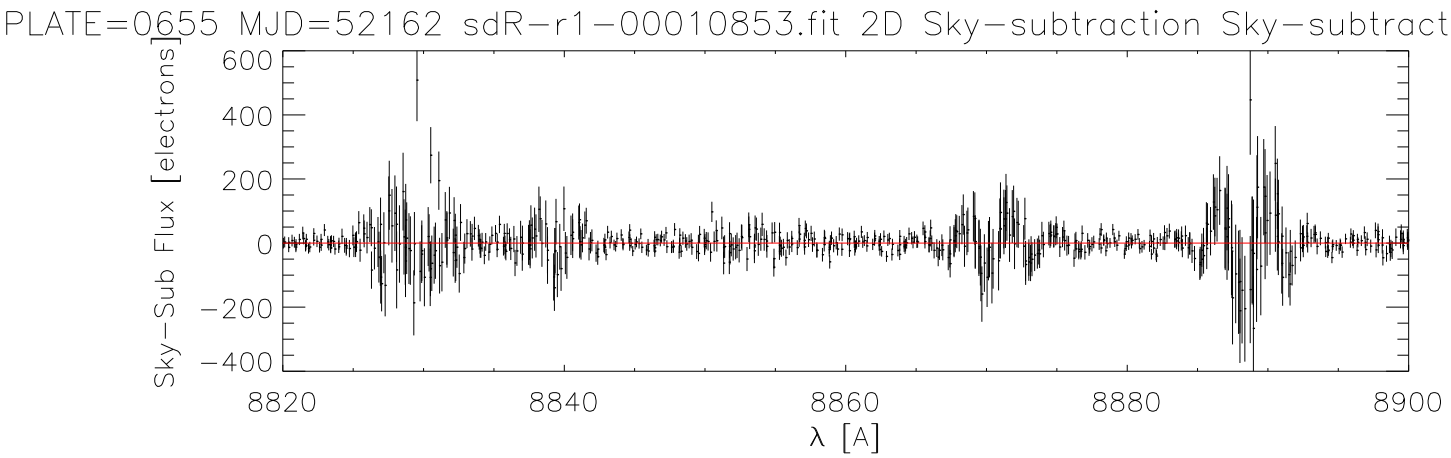

PLATE=0655 MJD=52162 sdR-r1-00010853.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

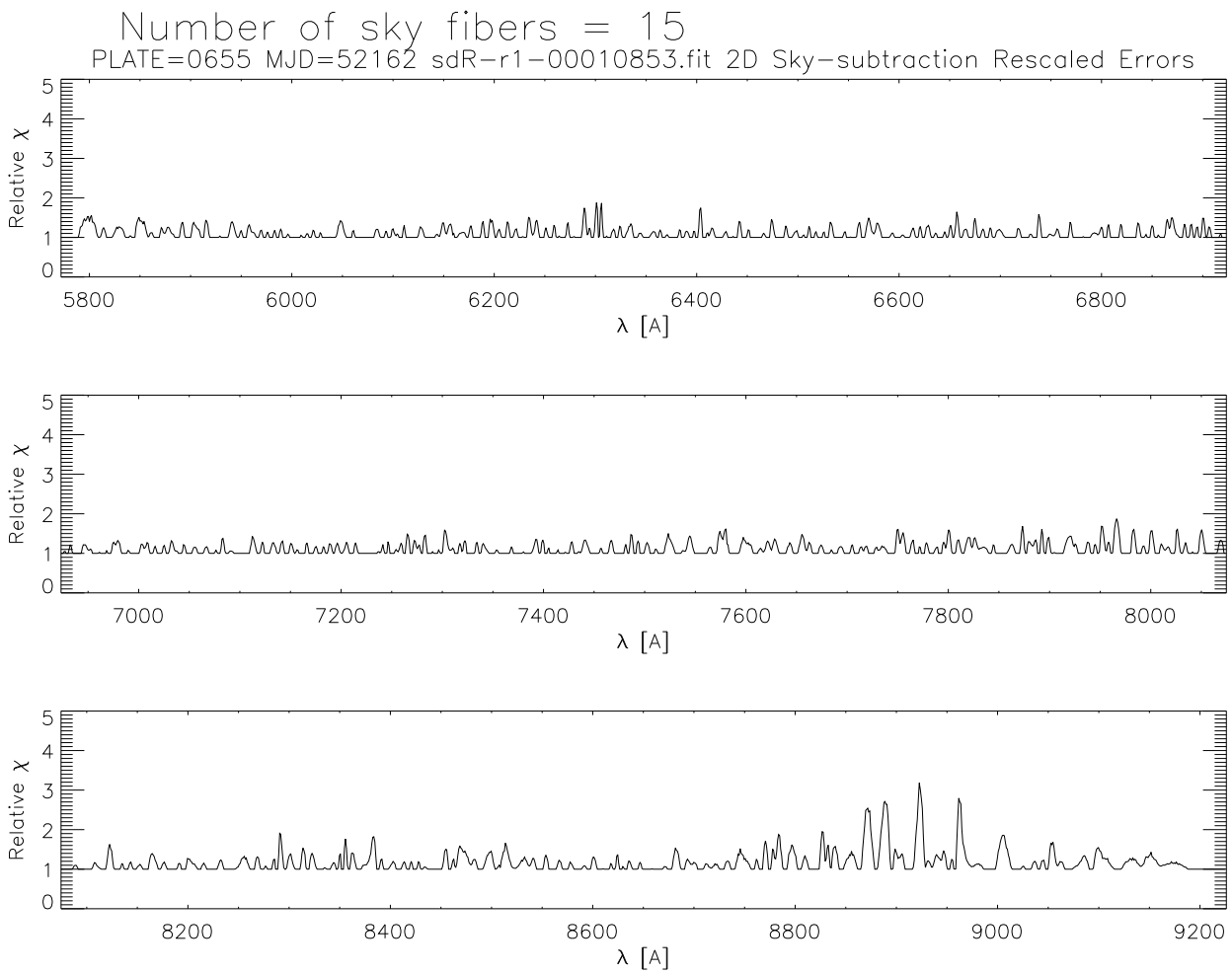

PLATE=0655 MJD=52162 sdR-r1-00010853.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

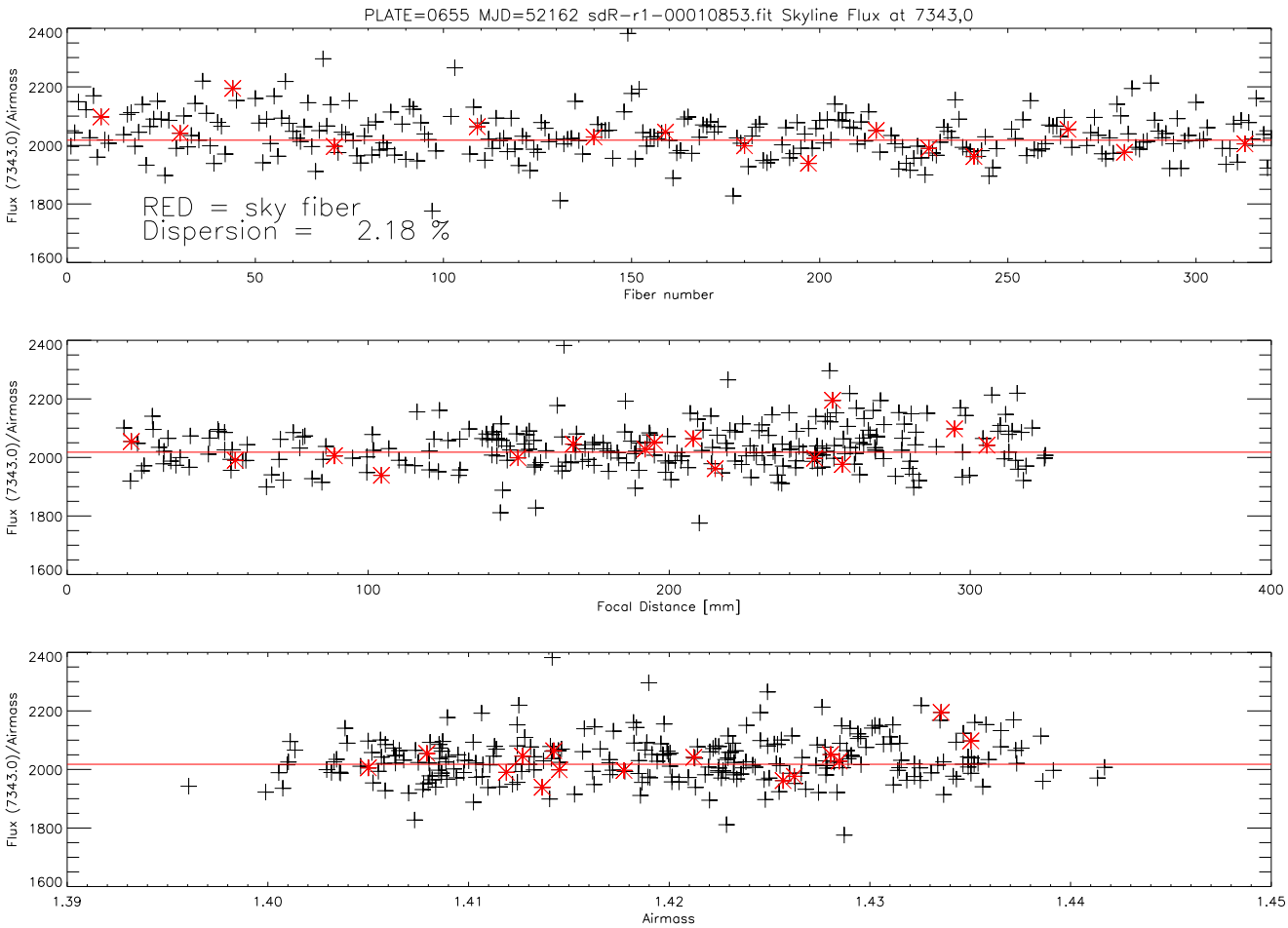

Number of sky fibers = 15
PLATE=0655 MJD=52162 sdR-r1-00010853.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

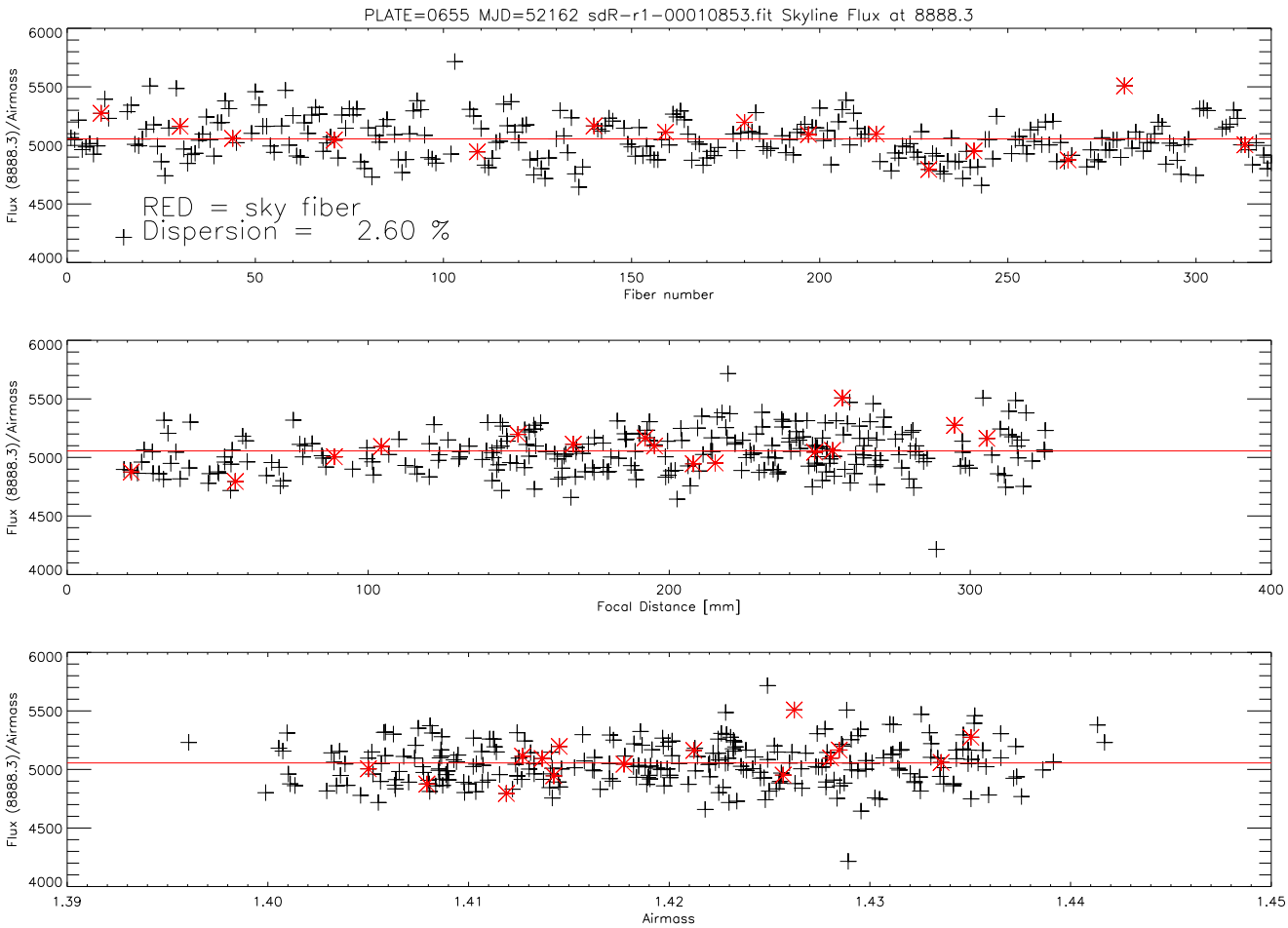

PLATE=0655 MJD=52162 sdR-r1-00010853.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

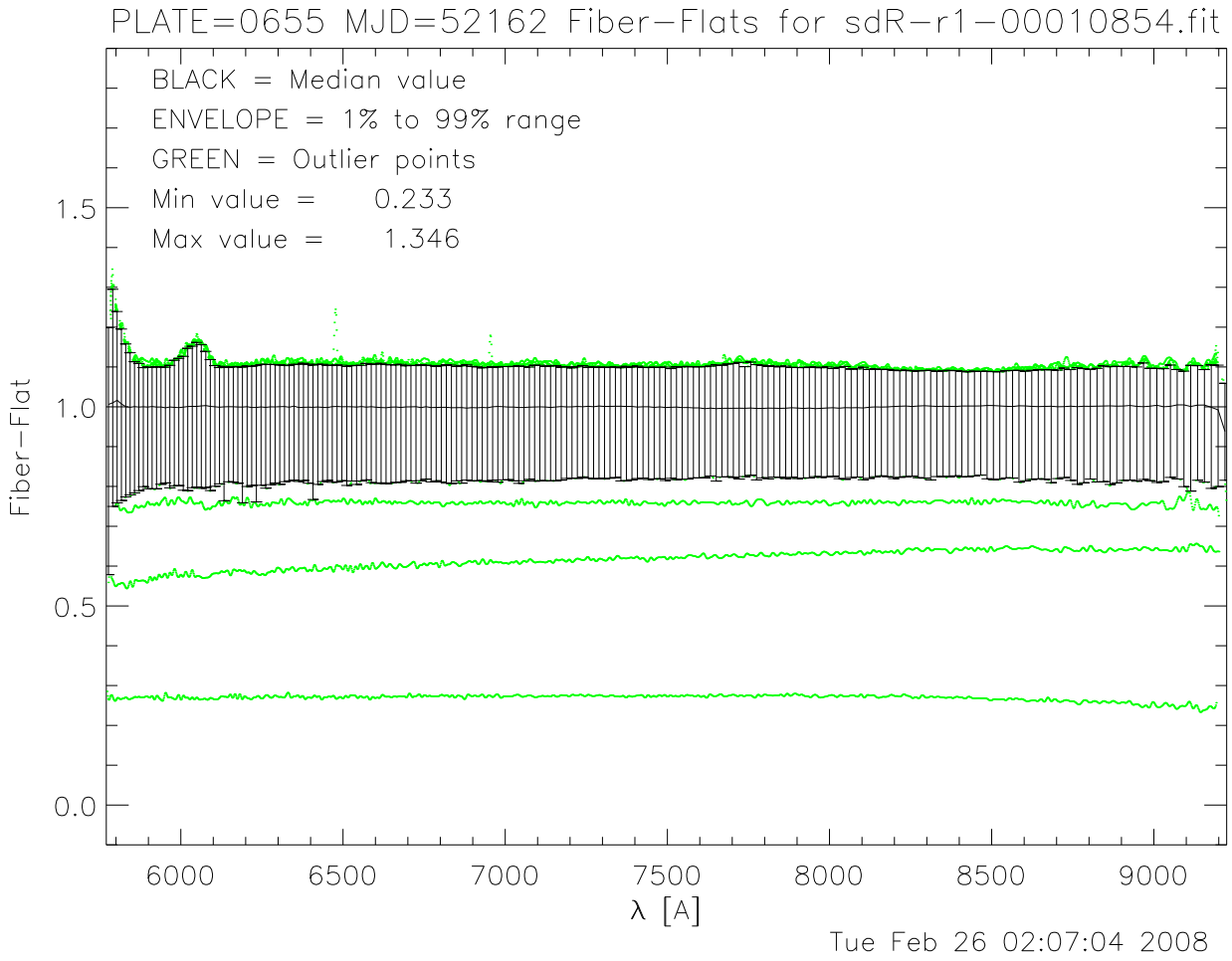

PLATE=0655 MJD=52162 sdR-r1-00010853.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

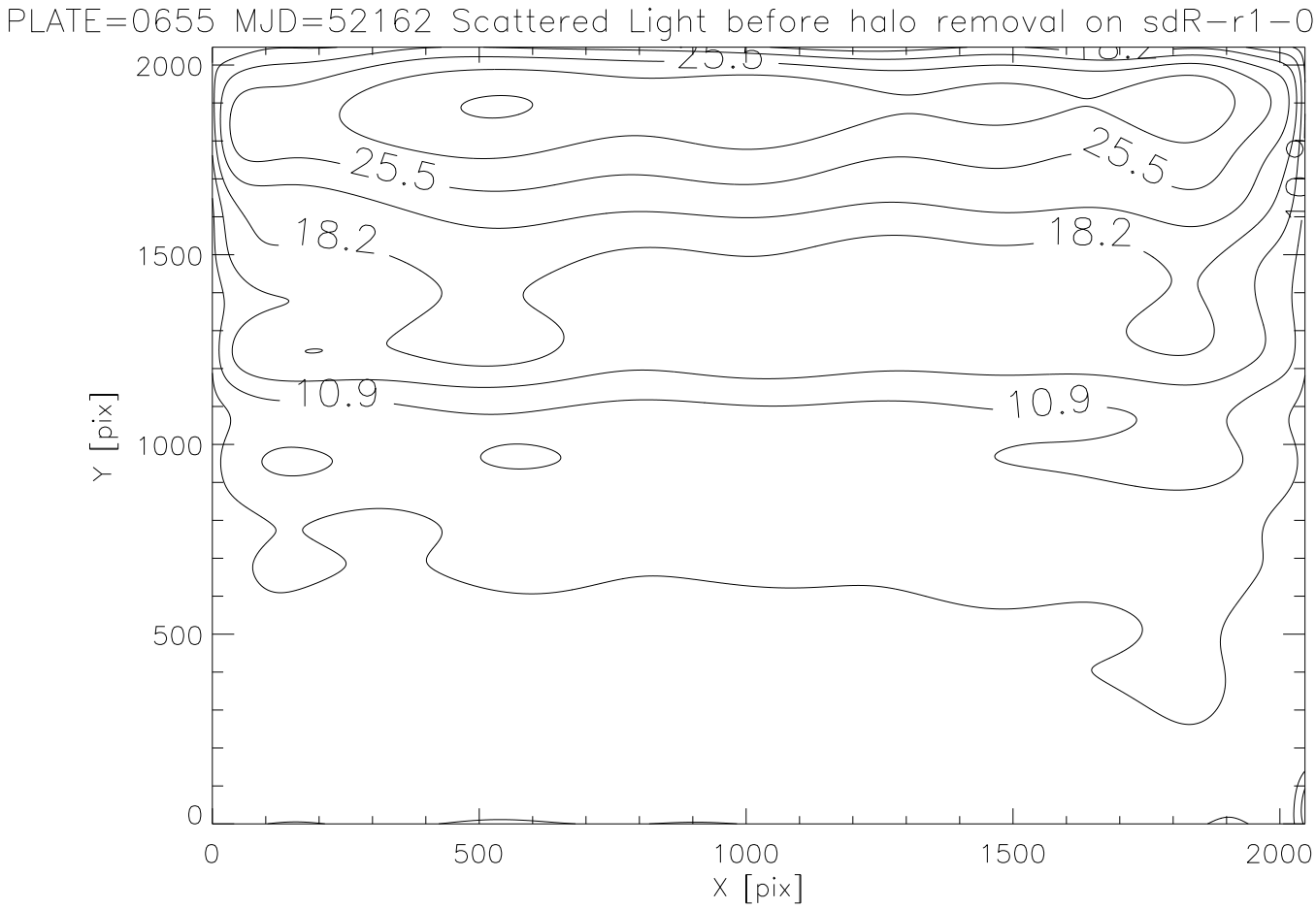

PLATE=0655 MJD=52162 sdR-r1-00010853.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

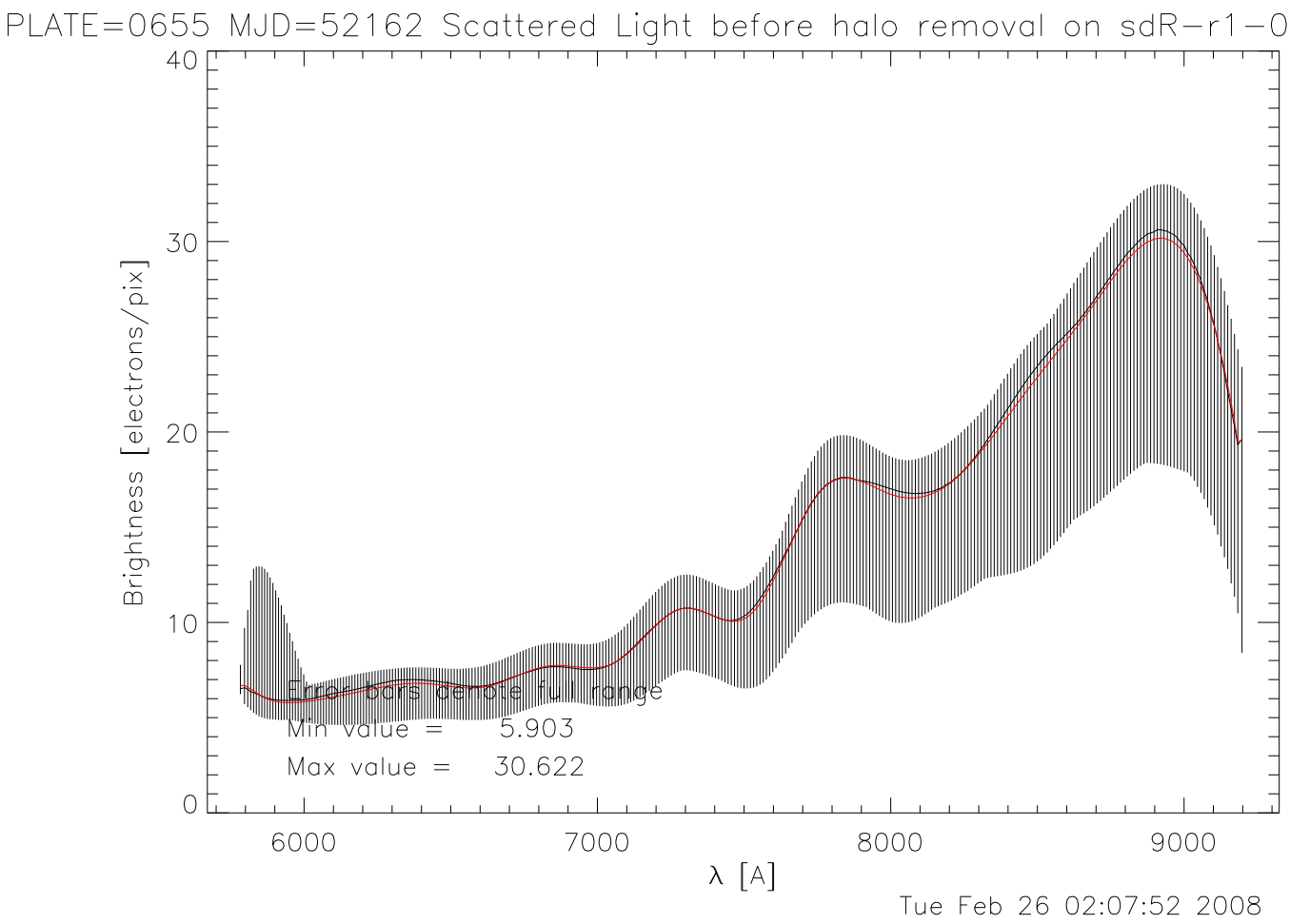

Number of sky fibers = 15
PLATE=0655 MJD=52162 sdR-r1-00010853.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

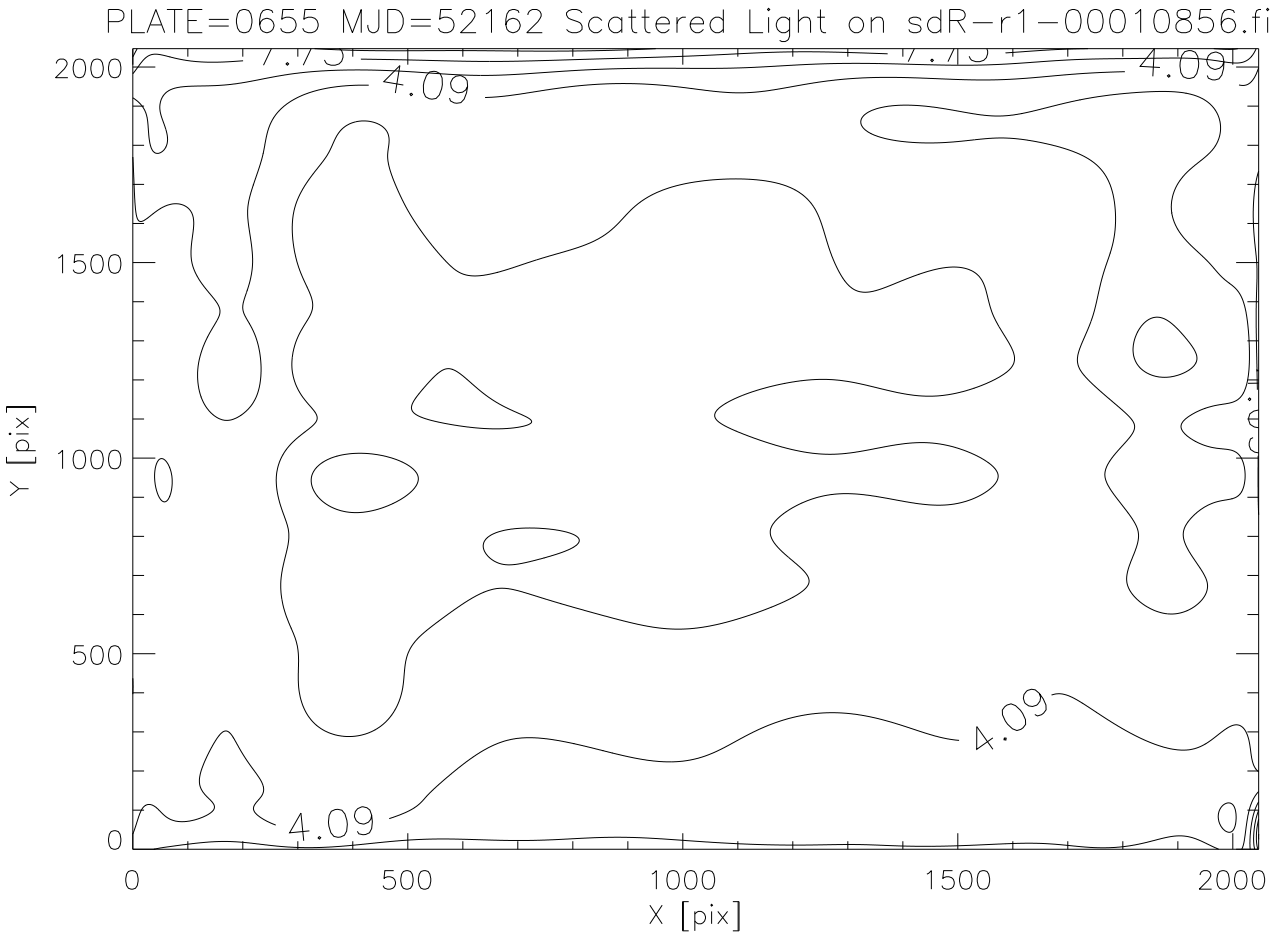

PLATE=0655 MJD=52162 sdR-r1-00010853.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.18 %
Fiber number
Focal Distance [mm]
Airmass

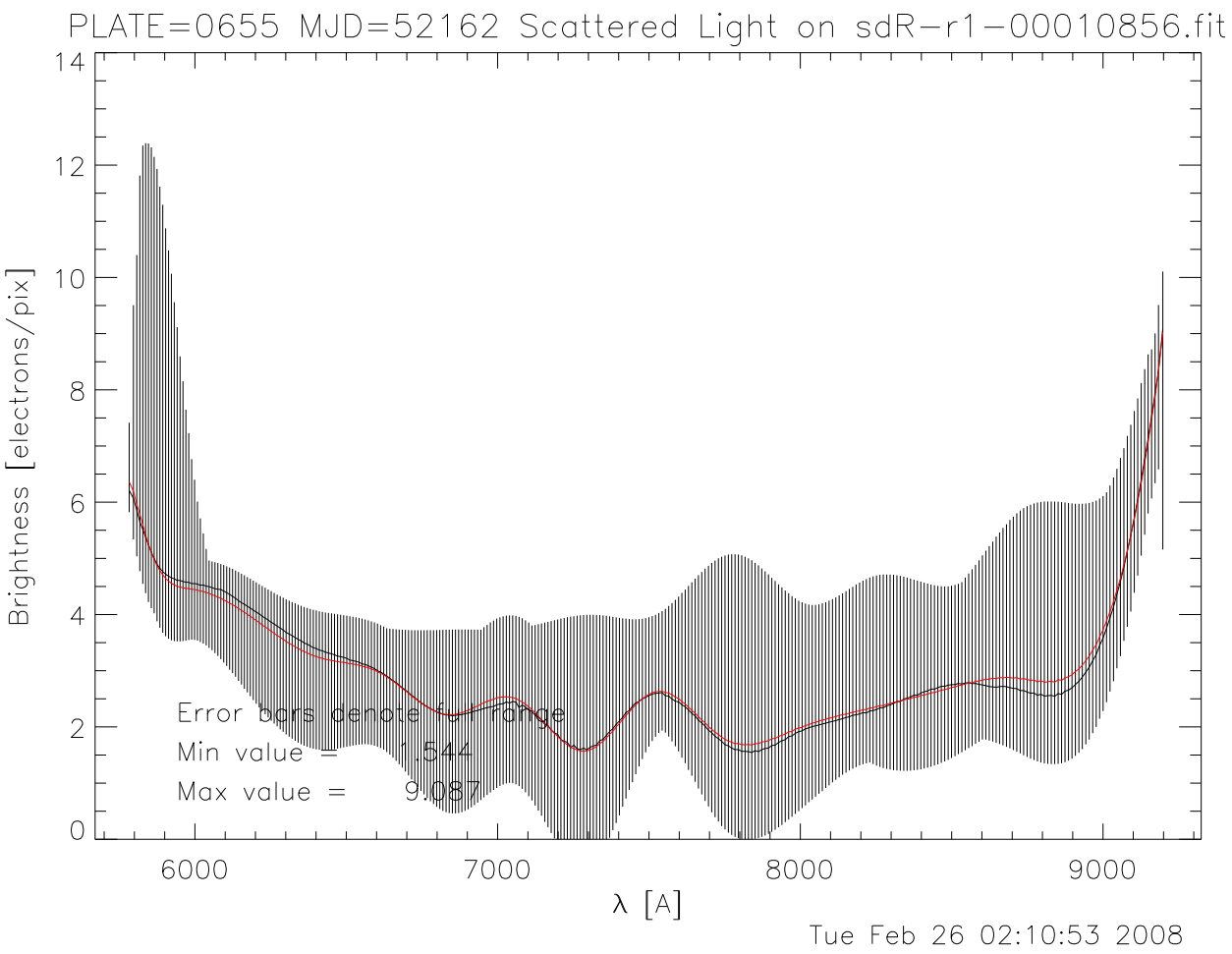

PLATE=0655 MJD=52162 sdR-r1-00010853.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.60 %
Fiber number
Focal Distance [mm]
Airmass

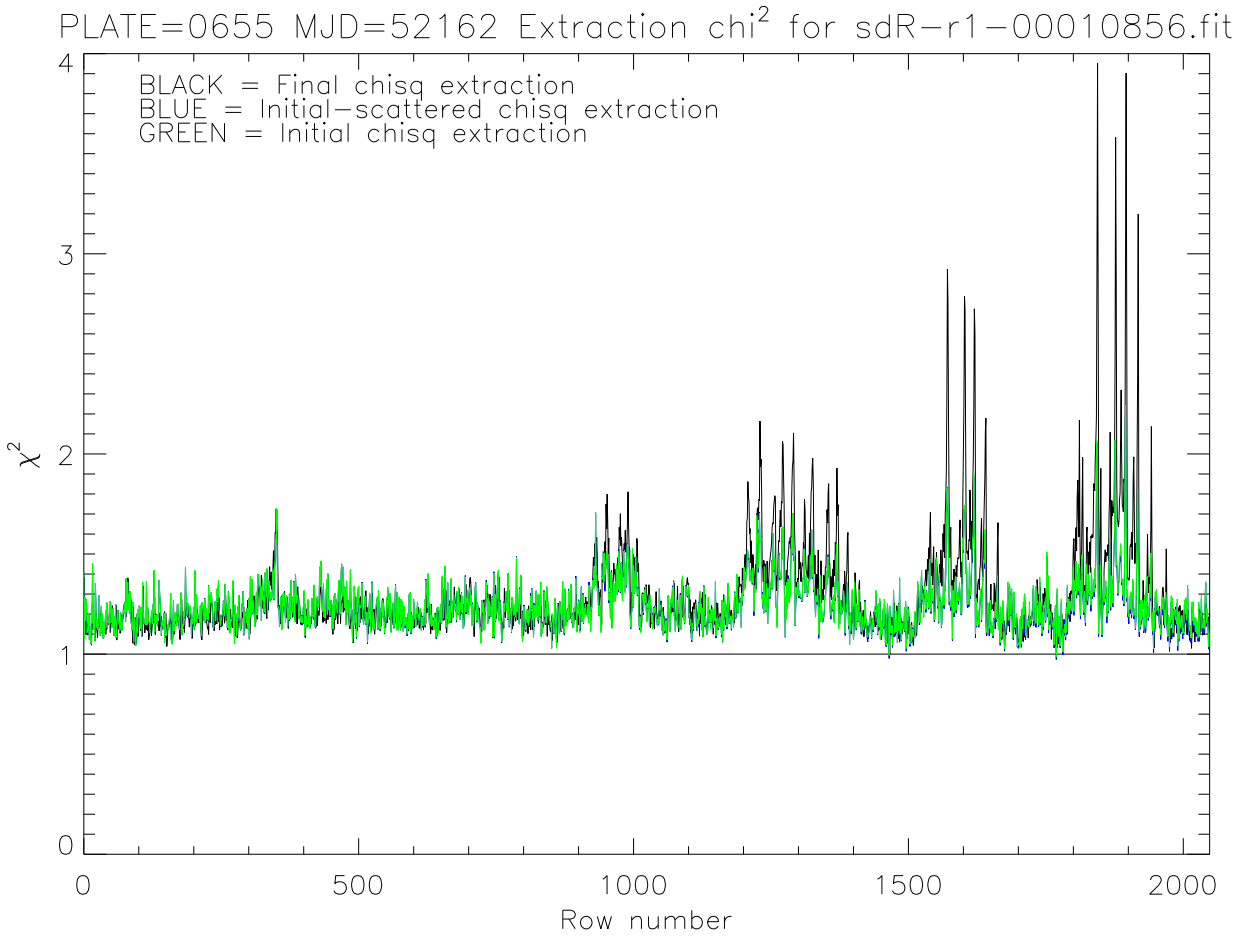

PLATE=0655 MJD=52162 Fiber−Flats for sdR−r1−00010854.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.233
Max value = 1.346
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Tue Feb 26 02:07:04 2008

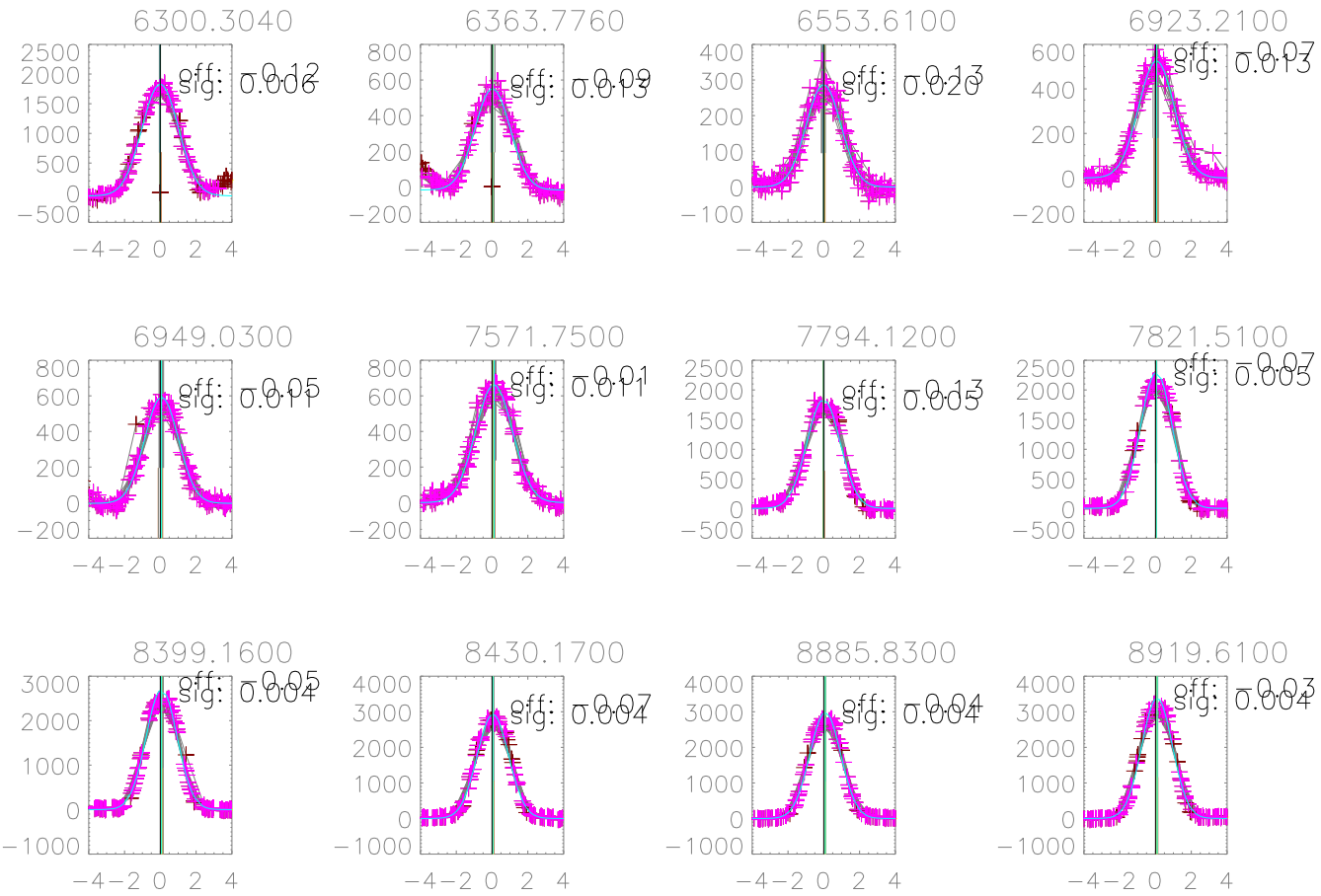

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-r1-00010856.fi
25.5
25.5
25.5
18.2
18.2
10.9
10.9
Y [pix]
X [pix]
0
500
1000
1500
2000

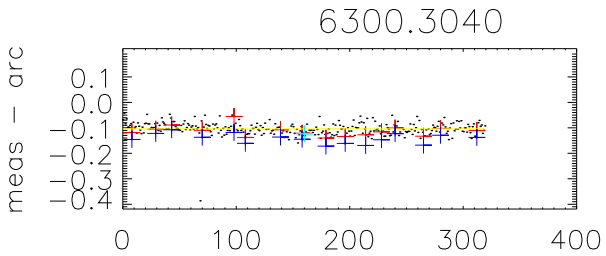

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-r1-00010856.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.903
Max value = 30.622
Tue Feb 26 02:07:52 2008

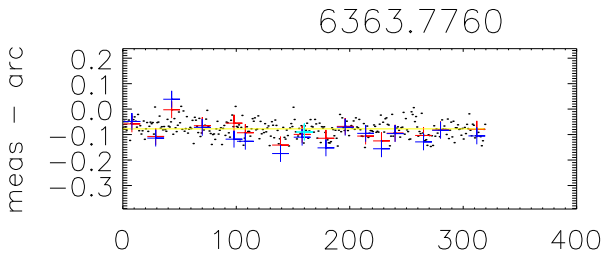

PLATE=0655 MJD=52162 Scattered Light on sdR-r1-00010856.fit
4.09
4.09
4.09
4.09
0
0
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

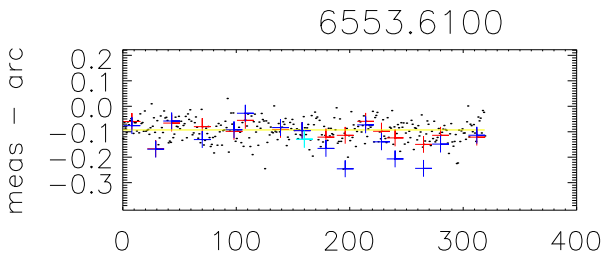

PLATE=0655 MJD=52162 Scattered Light on sdR-r1-00010856.fit
Brightness [electrons/pix]
λ [A]
Error bars denote 1-σ range
Min value = -1.544
Max value = 9.087
Tue Feb 26 02:10:53 2008

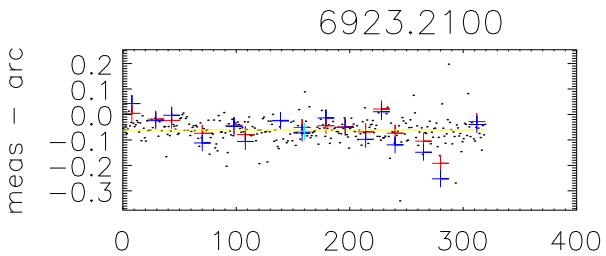

PLATE=0655 MJD=52162 Extraction chi^2 for sdR−r1−00010856.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

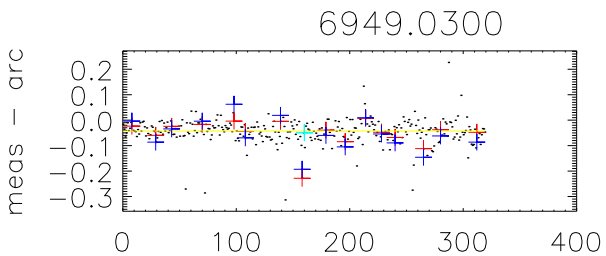

6300.3040
off: -0.12
sig: 0.006
6363.7760
off: -0.09
sig: 0.013
6553.6100
off: -0.13
sig: 0.020
6923.2100
off: -0.07
sig: 0.013
6949.0300
off: -0.05
sig: 0.011
7571.7500
off: -0.01
sig: 0.011
7794.1200
off: -0.13
sig: 0.005
7821.5100
off: -0.07
sig: 0.005
8399.1600
off: -0.05
sig: 0.004
8430.1700
off: -0.07
sig: 0.004
8885.8300
off: -0.04
sig: 0.004
8919.6100
off: -0.03
sig: 0.004

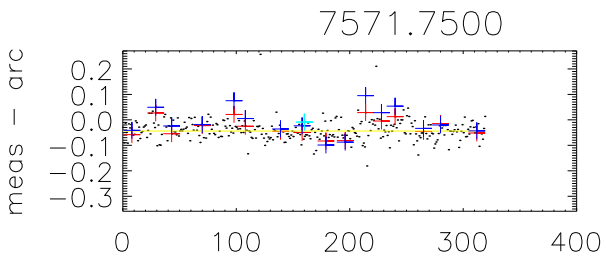

6300.3040
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

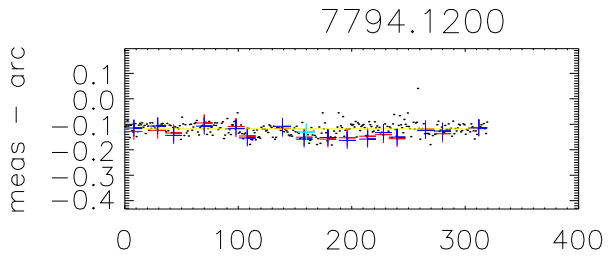

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

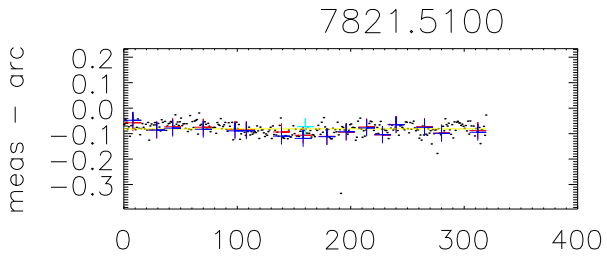

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

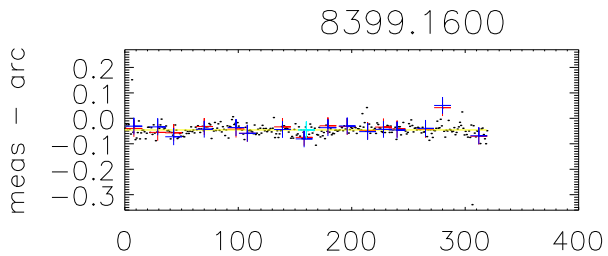

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

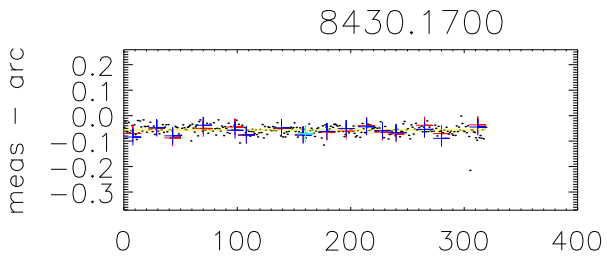

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

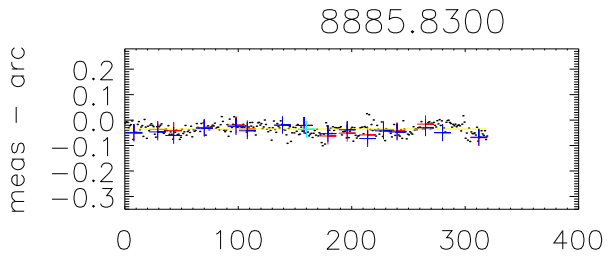

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

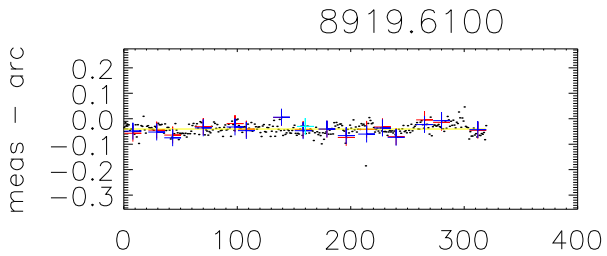

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

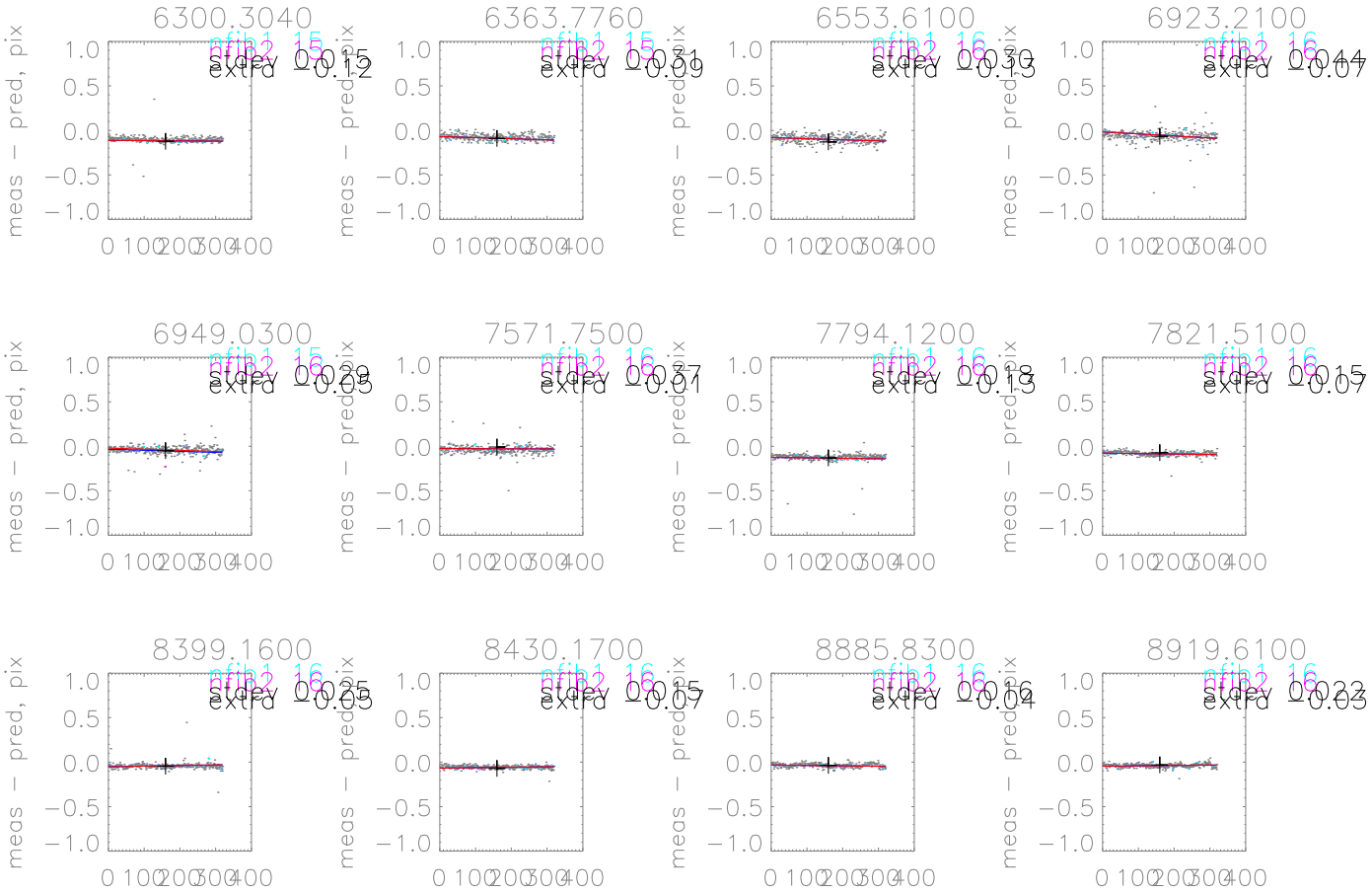

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

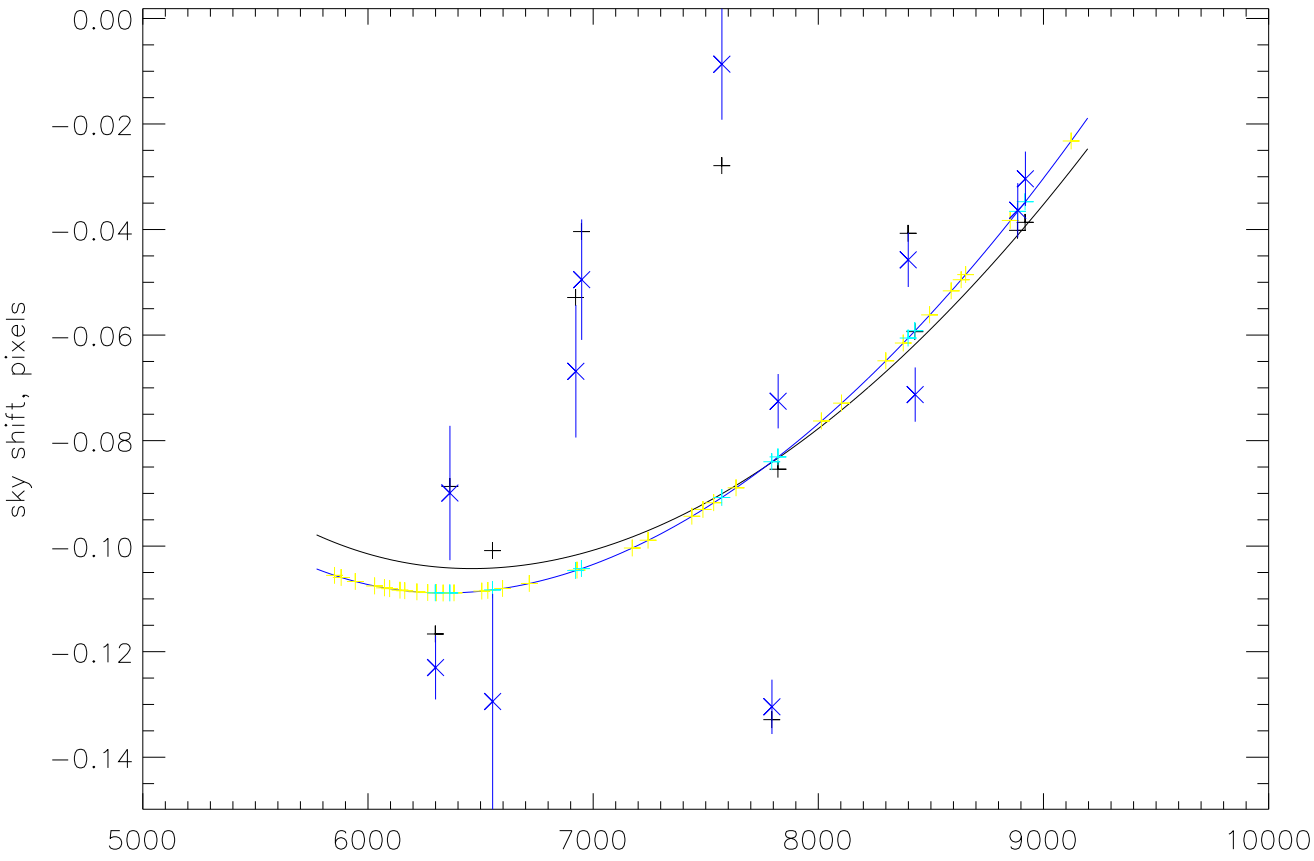

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

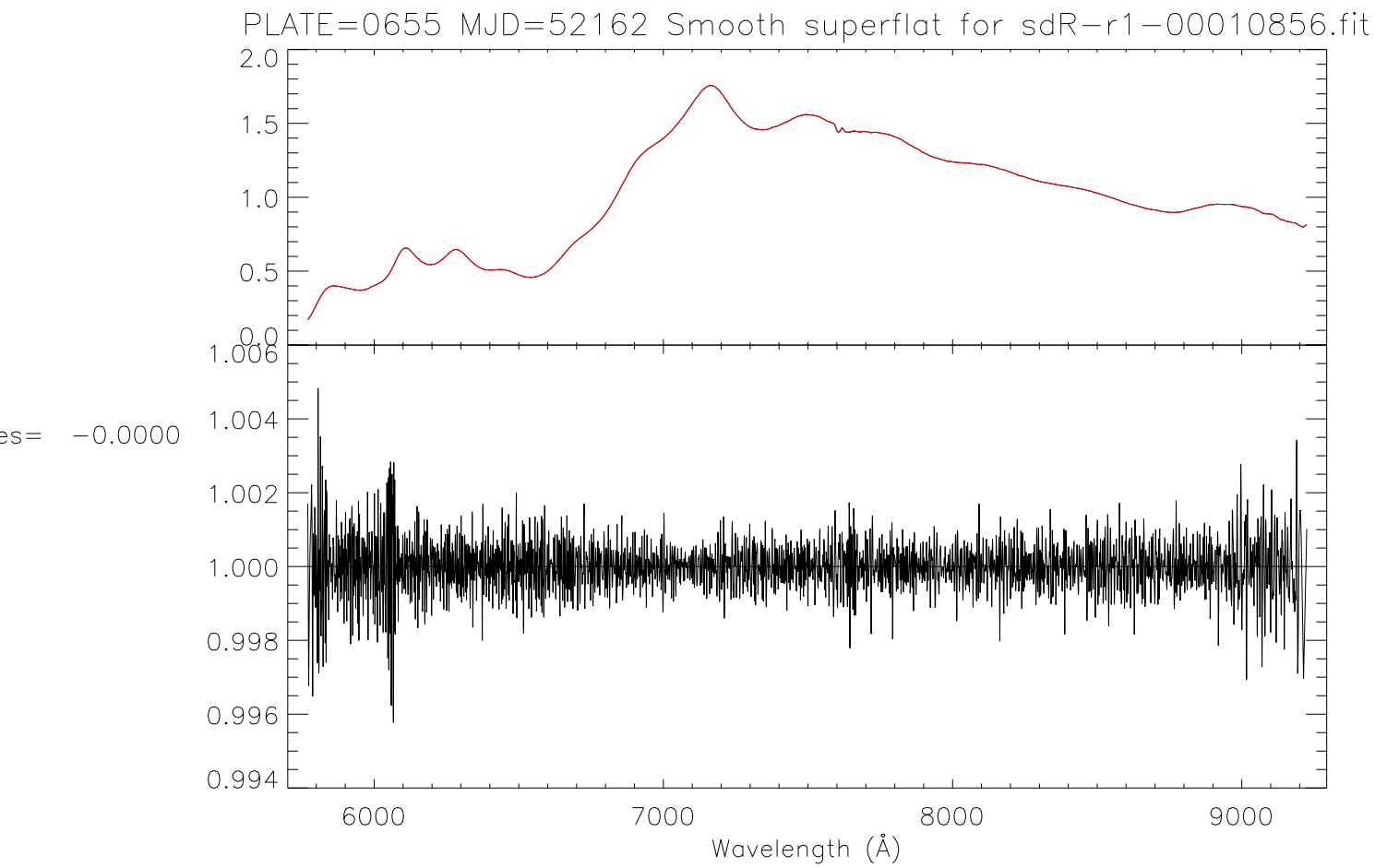

8430.1700
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

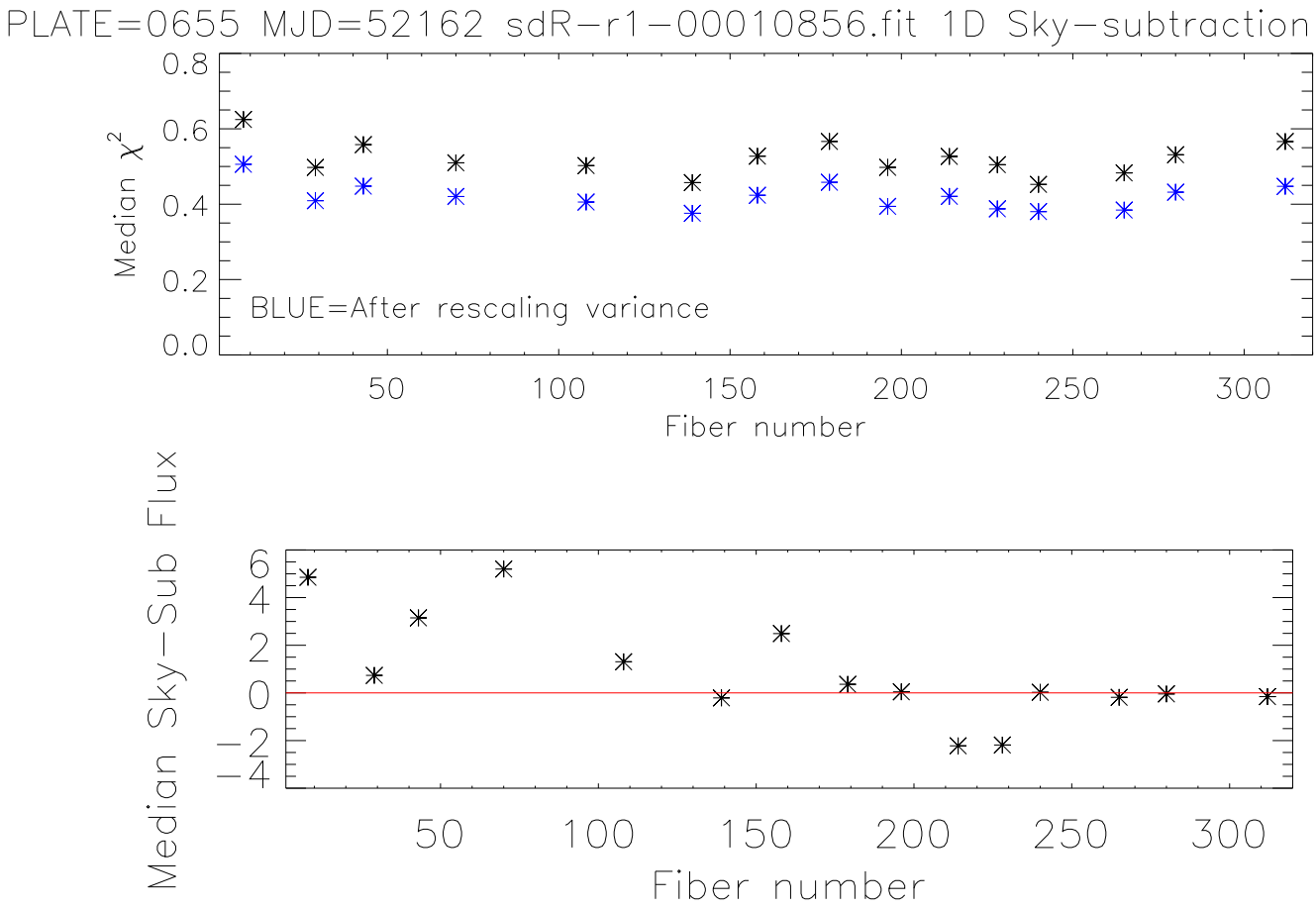

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

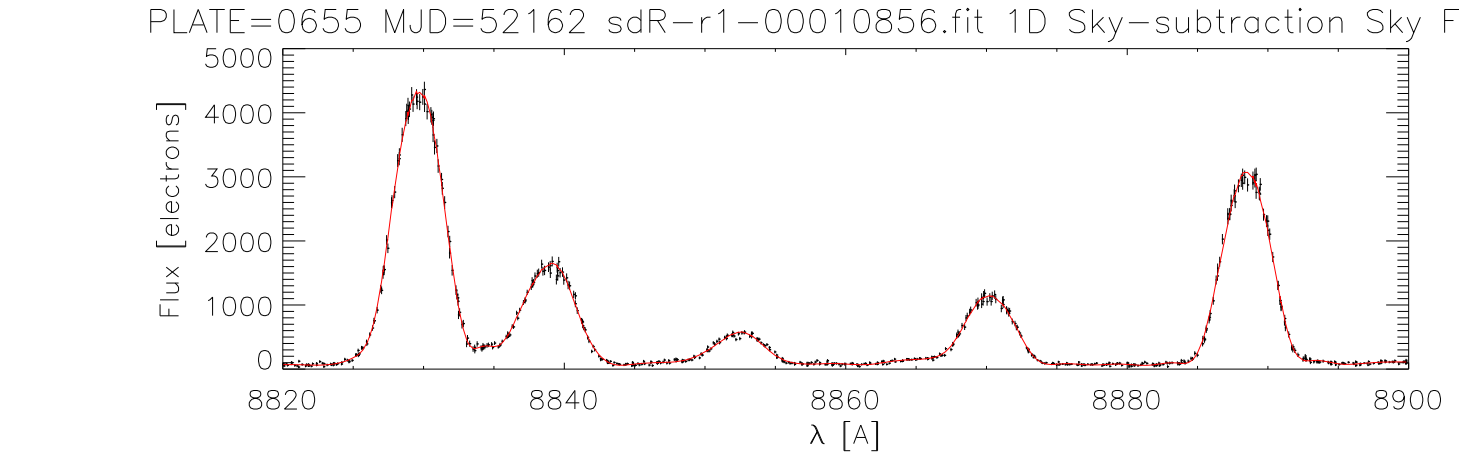

6300.3040
stdev 0.015
extra 0.12
6363.7760
stdev 0.031
extra 0.09
6553.6100
stdev 0.030
extra 0.13
6923.2100
stdev 0.044
extra 0.07
6949.0300
stdev 0.029
extra 0.05
7571.7500
stdev 0.037
extra 0.01
7794.1200
stdev 0.018
extra 0.13
7821.5100
stdev 0.015
extra 0.07
8399.1600
stdev 0.025
extra 0.05
8430.1700
stdev 0.015
extra 0.07
8885.8300
stdev 0.016
extra 0.04
8919.6100
stdev 0.022
extra 0.03
meas − pred, pix
mfhd1 15
mfhd2 16

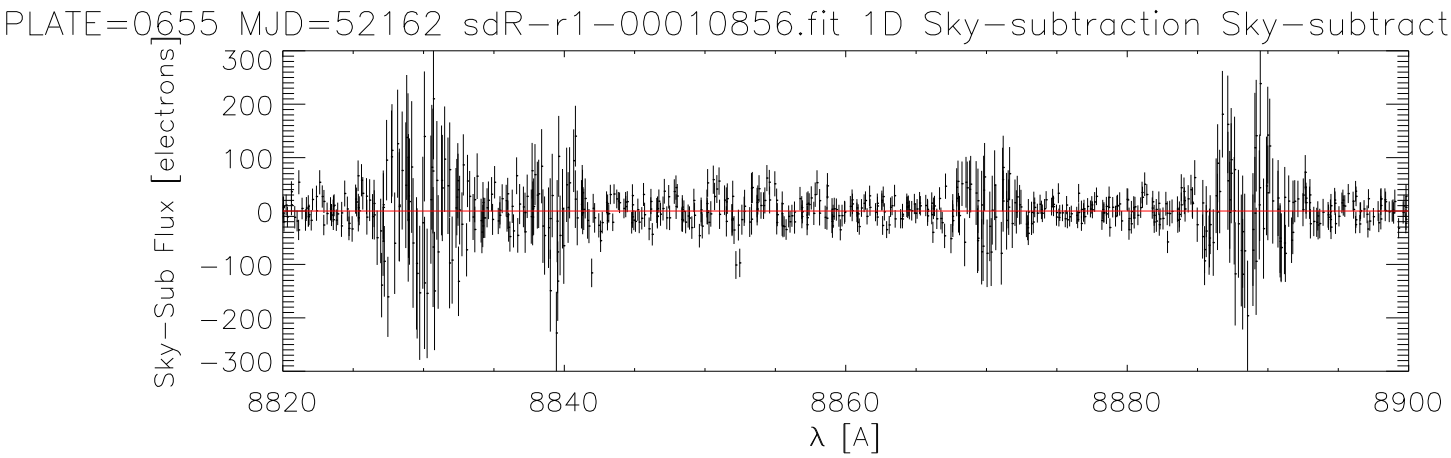

0.00
−0.02
−0.04
−0.06
−0.08
−0.10
−0.12
−0.14
sky shift, pixels
5000
6000
7000
8000
9000
10000

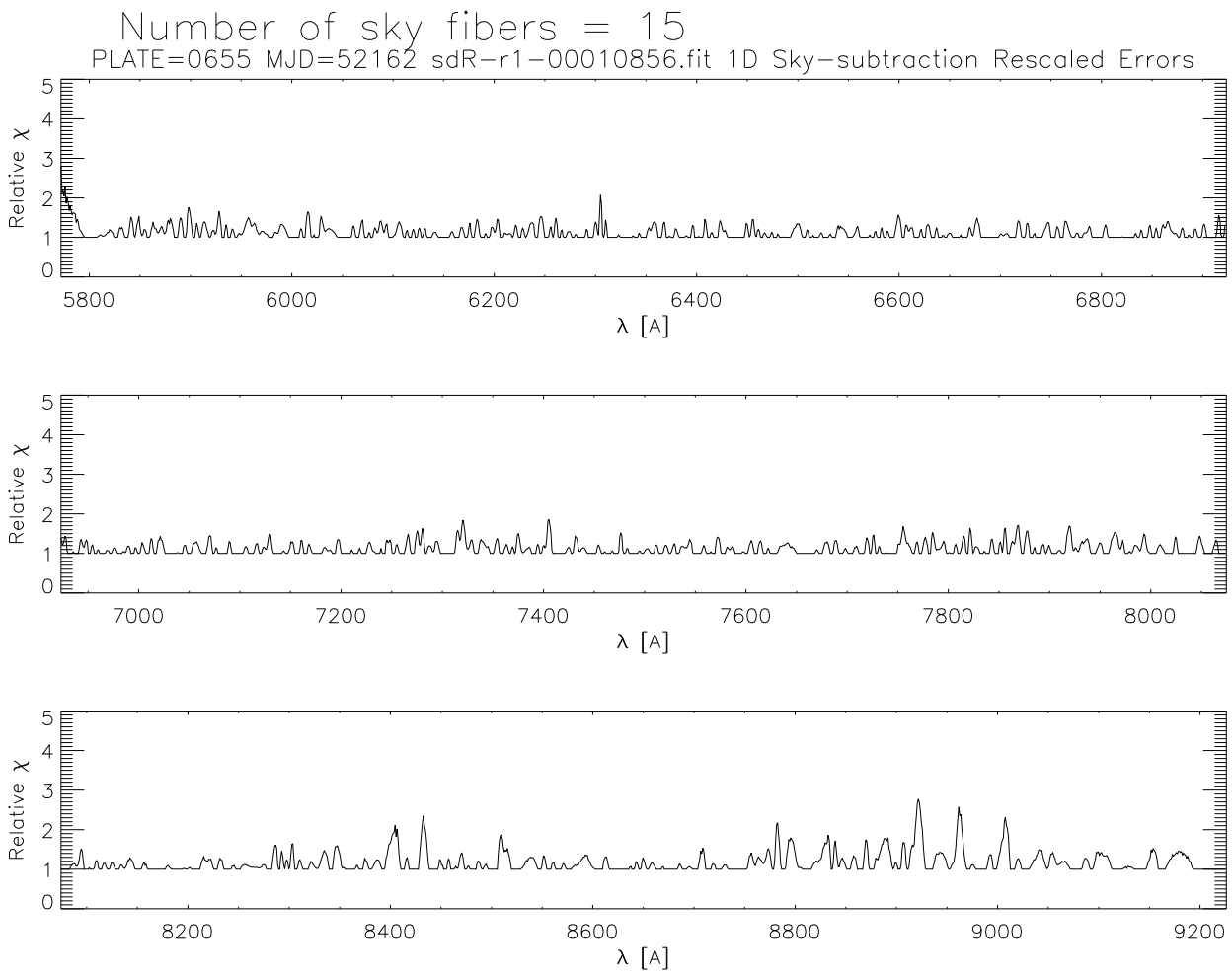

PLATE=0655 MJD=52162 Smooth superflat for sdR-r1-00010856.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
6000
7000
8000
9000
Wavelength (Å)

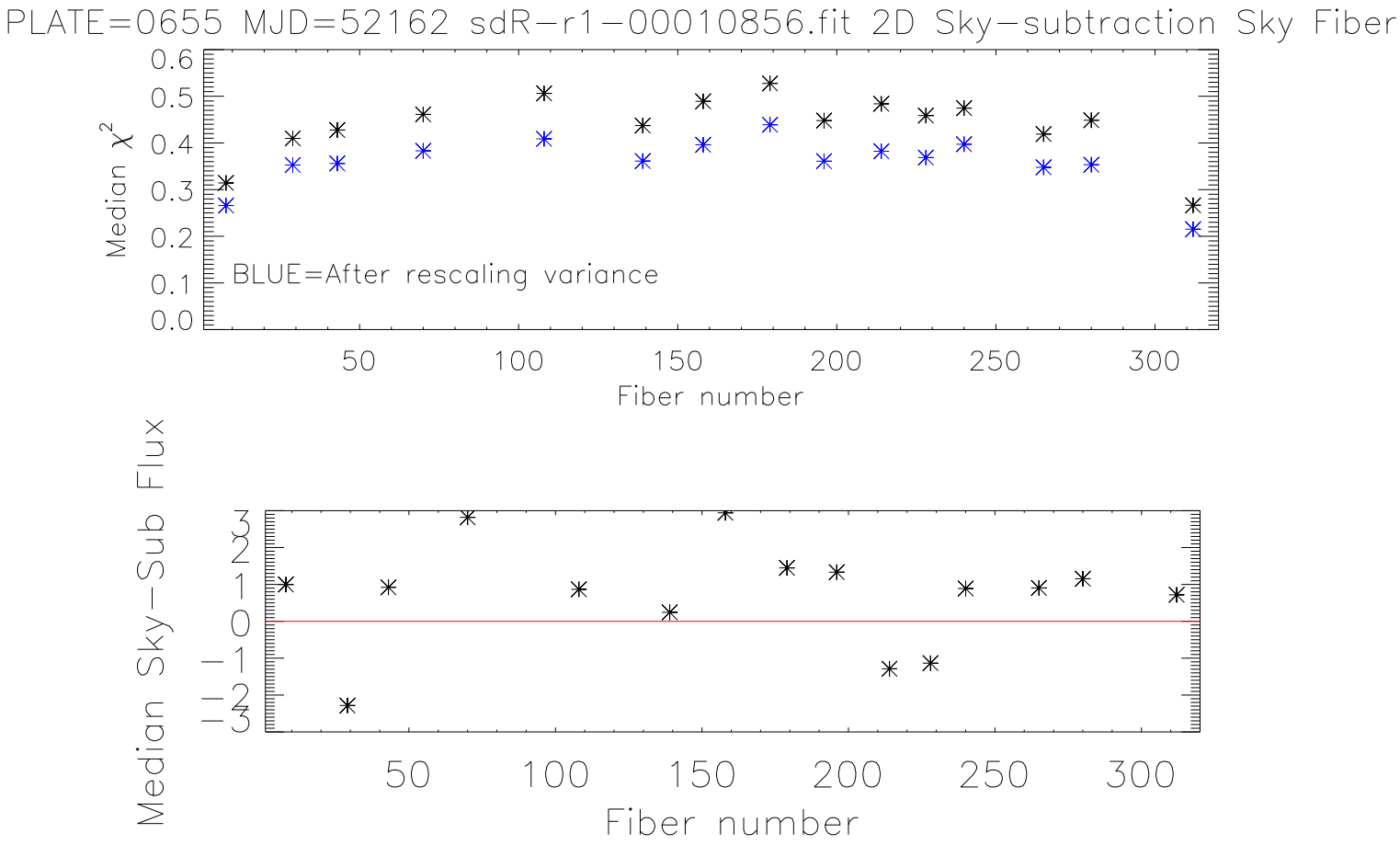
es= −0.0000

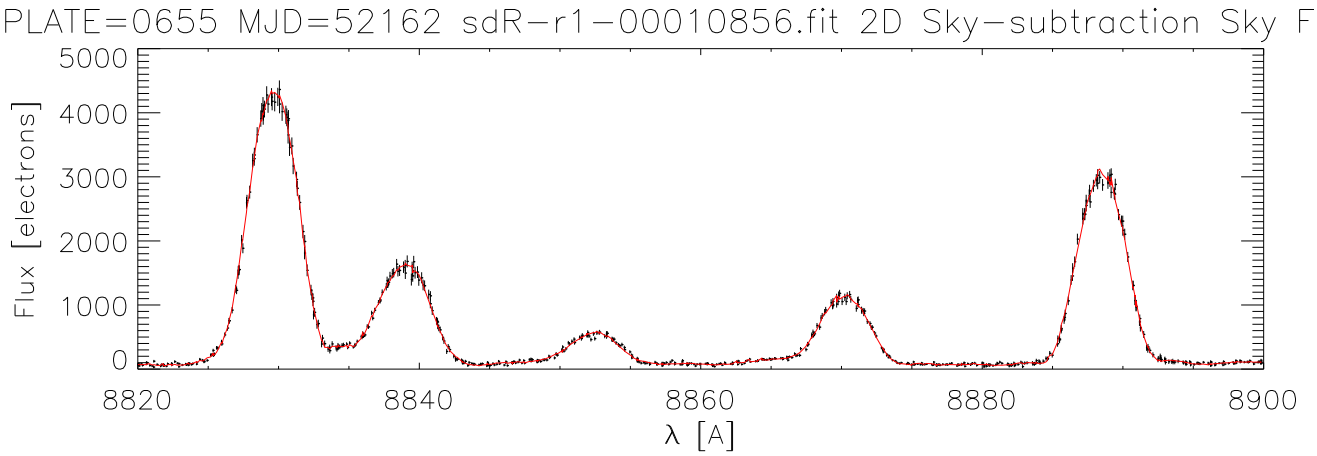

PLATE=0655 MJD=52162 sdR-r1-00010856.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

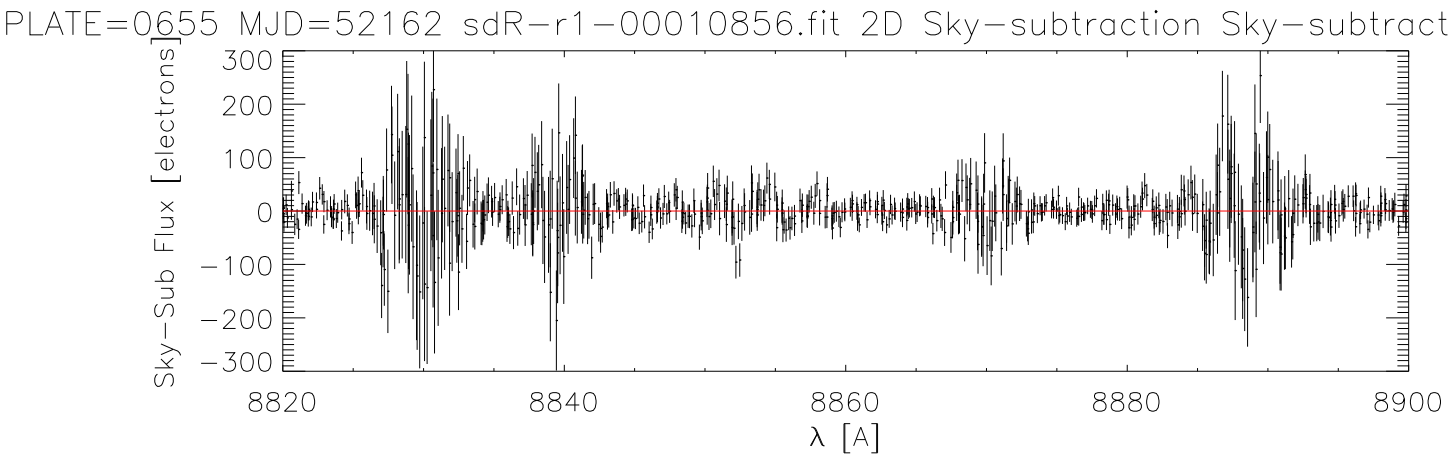

PLATE=0655 MJD=52162 sdR-r1-00010856.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

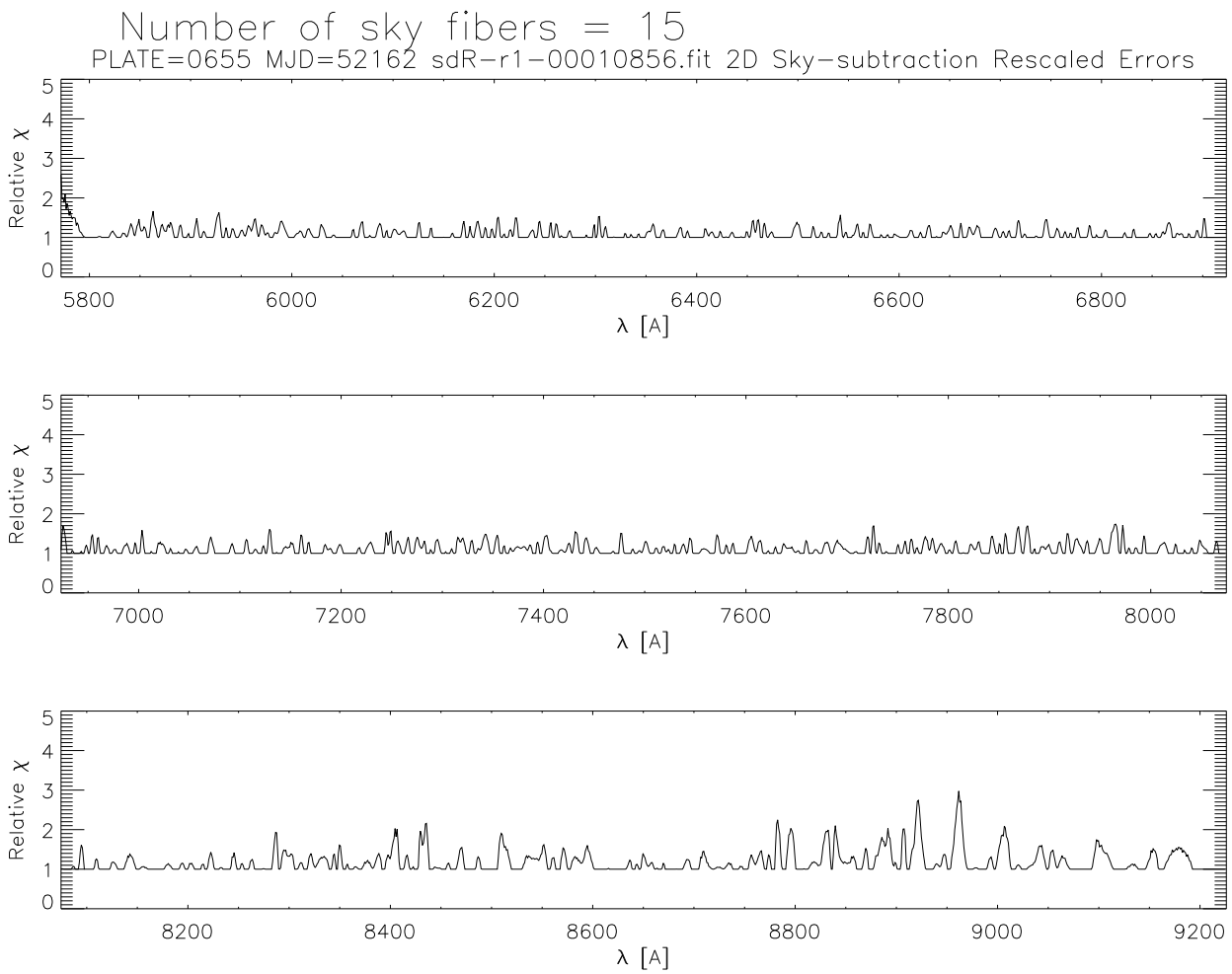

PLATE=0655 MJD=52162 sdR-r1-00010856.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

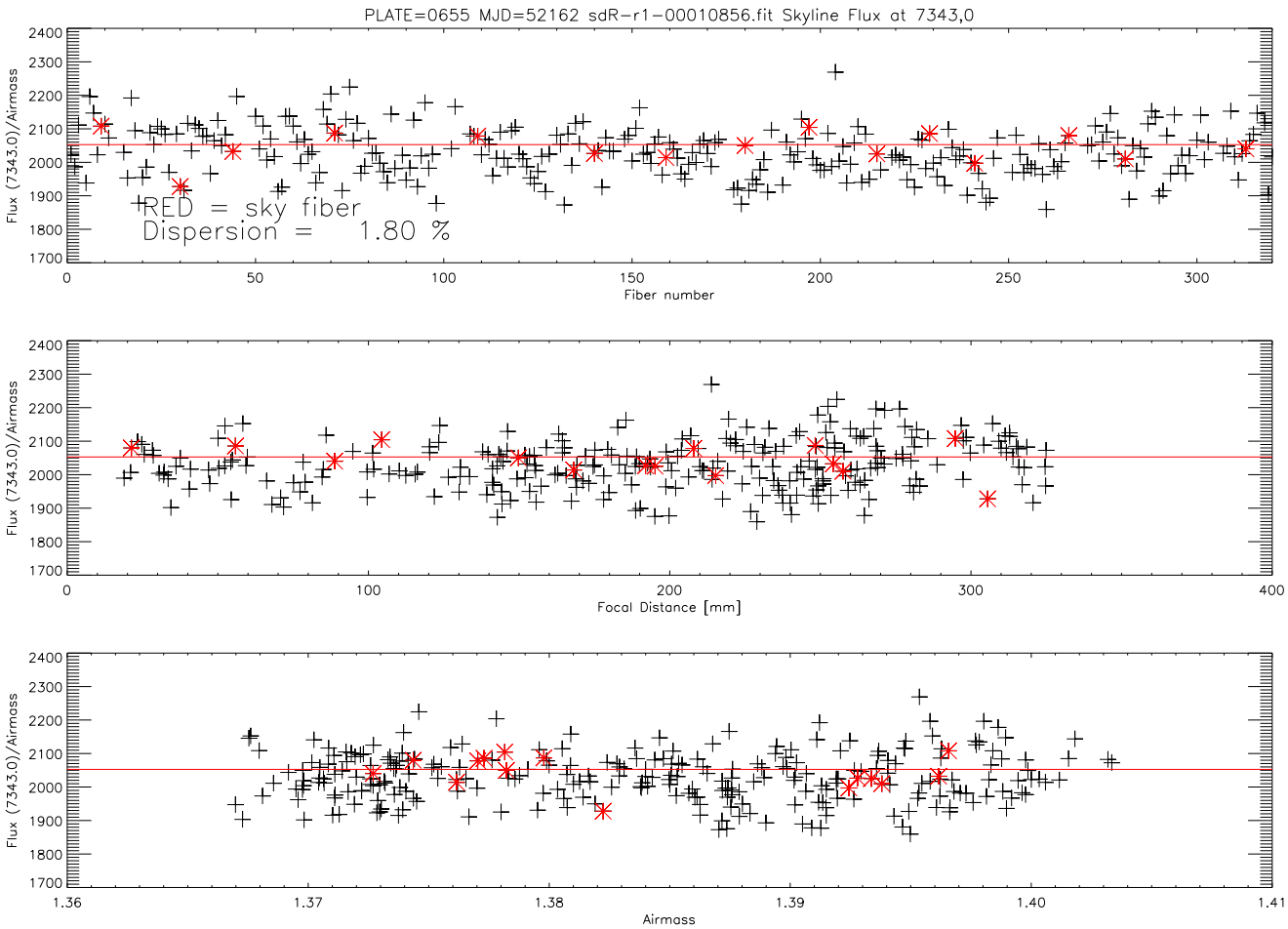

Number of sky fibers = 15
PLATE=0655 MJD=52162 sdR-r1-00010856.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

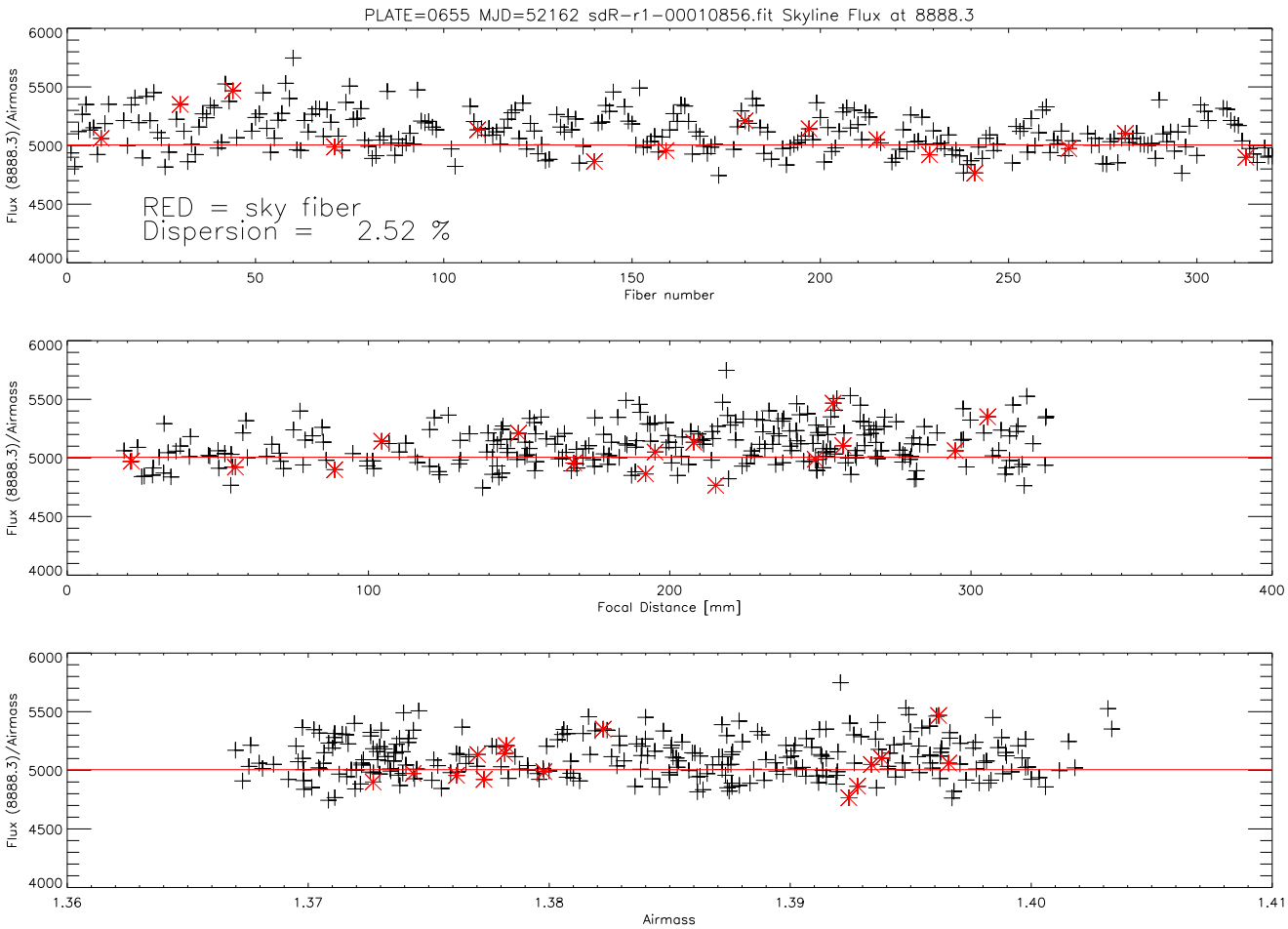

PLATE=0655 MJD=52162 sdR-r1-00010856.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

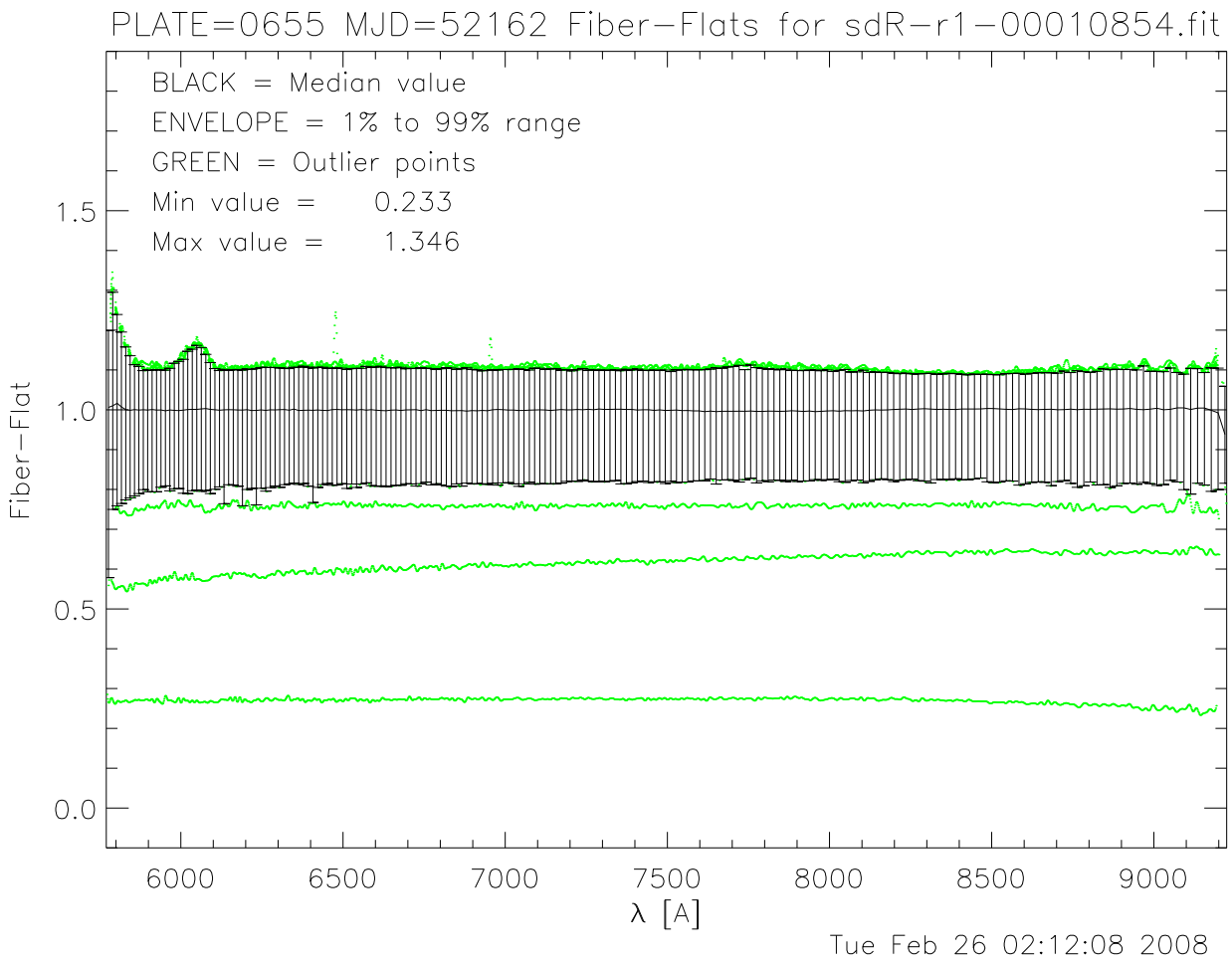

PLATE=0655 MJD=52162 sdR-r1-00010856.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

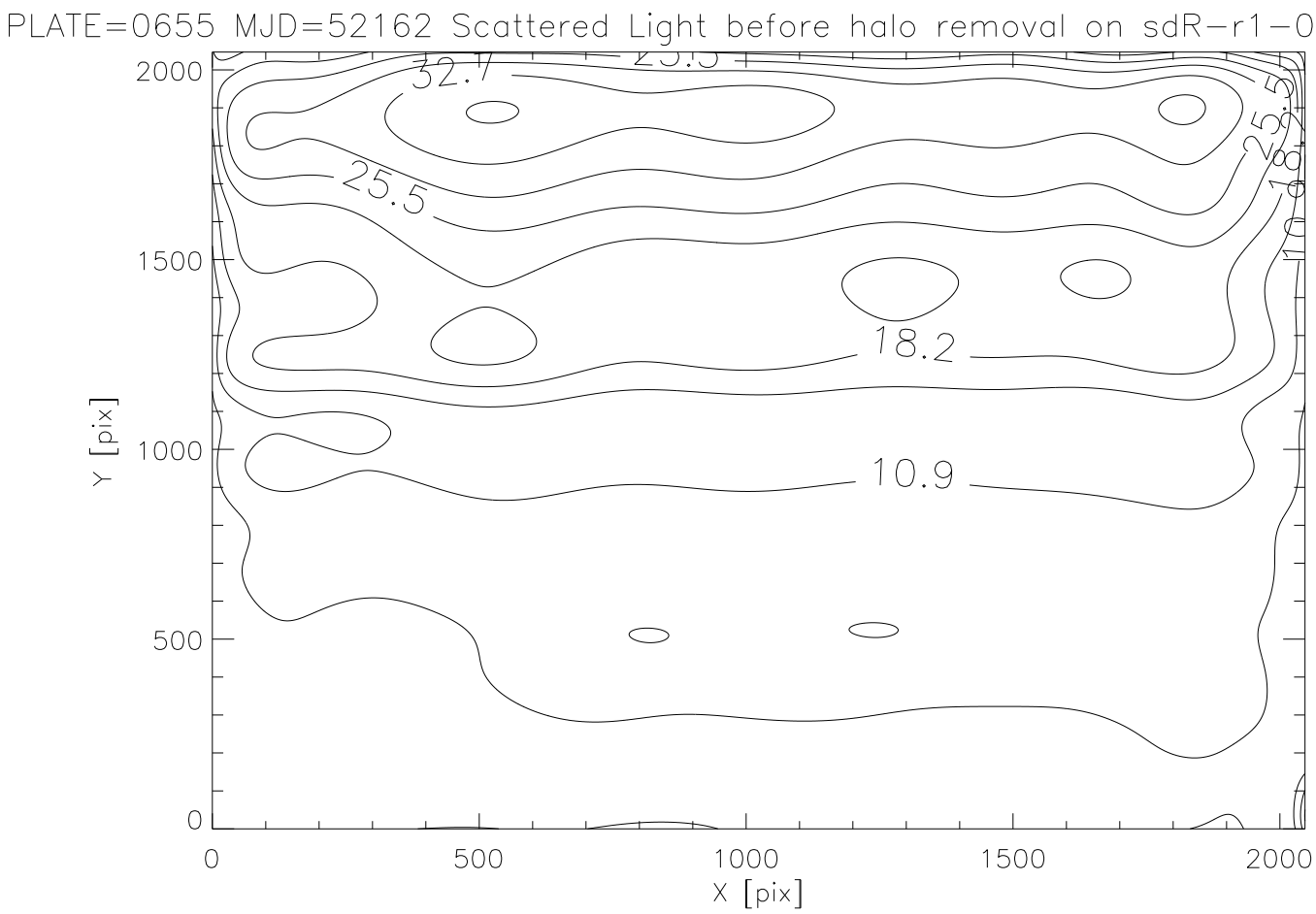

PLATE=0655 MJD=52162 sdR-r1-00010856.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

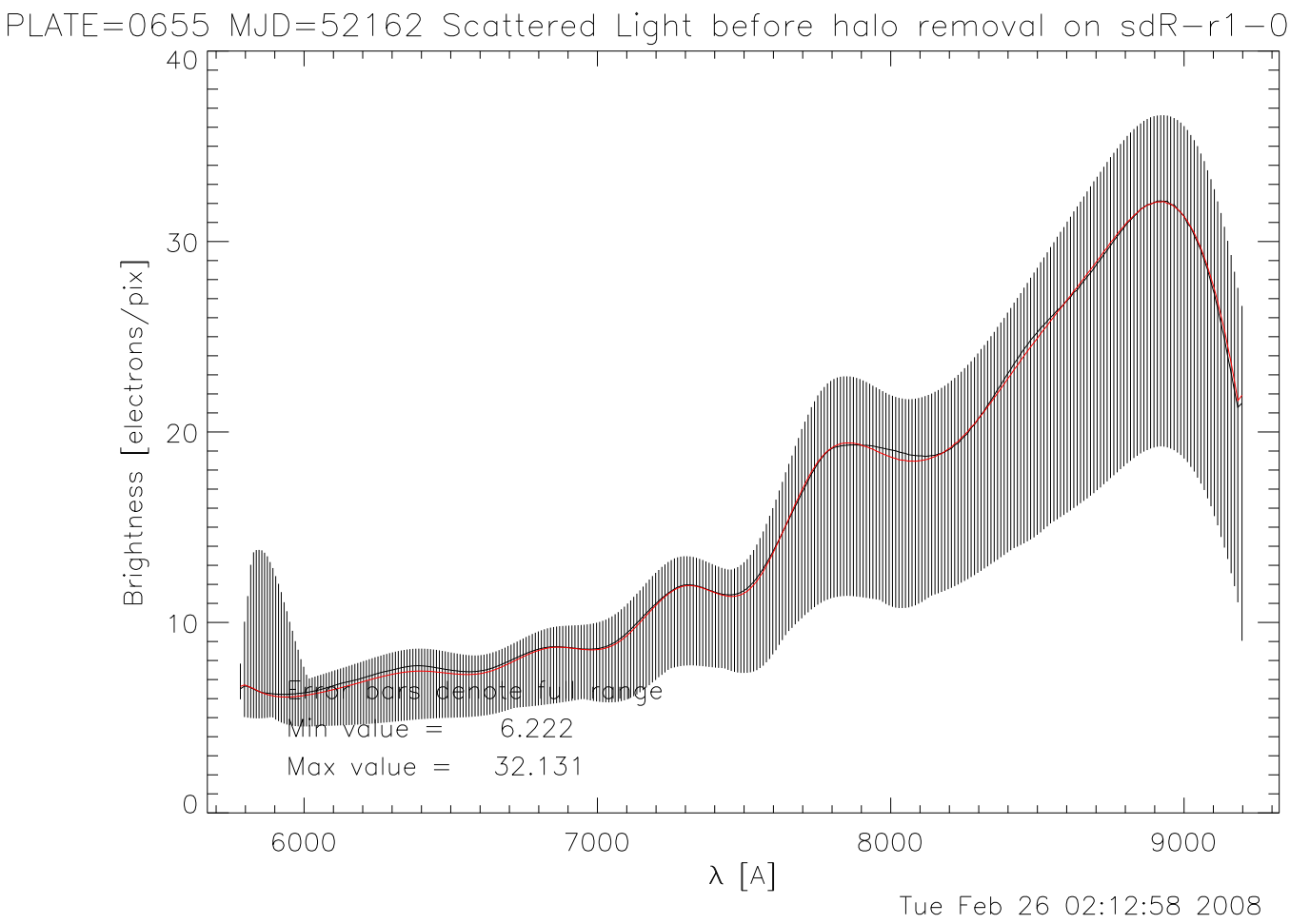

Number of sky fibers = 15
PLATE=0655 MJD=52162 sdR-r1-00010856.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

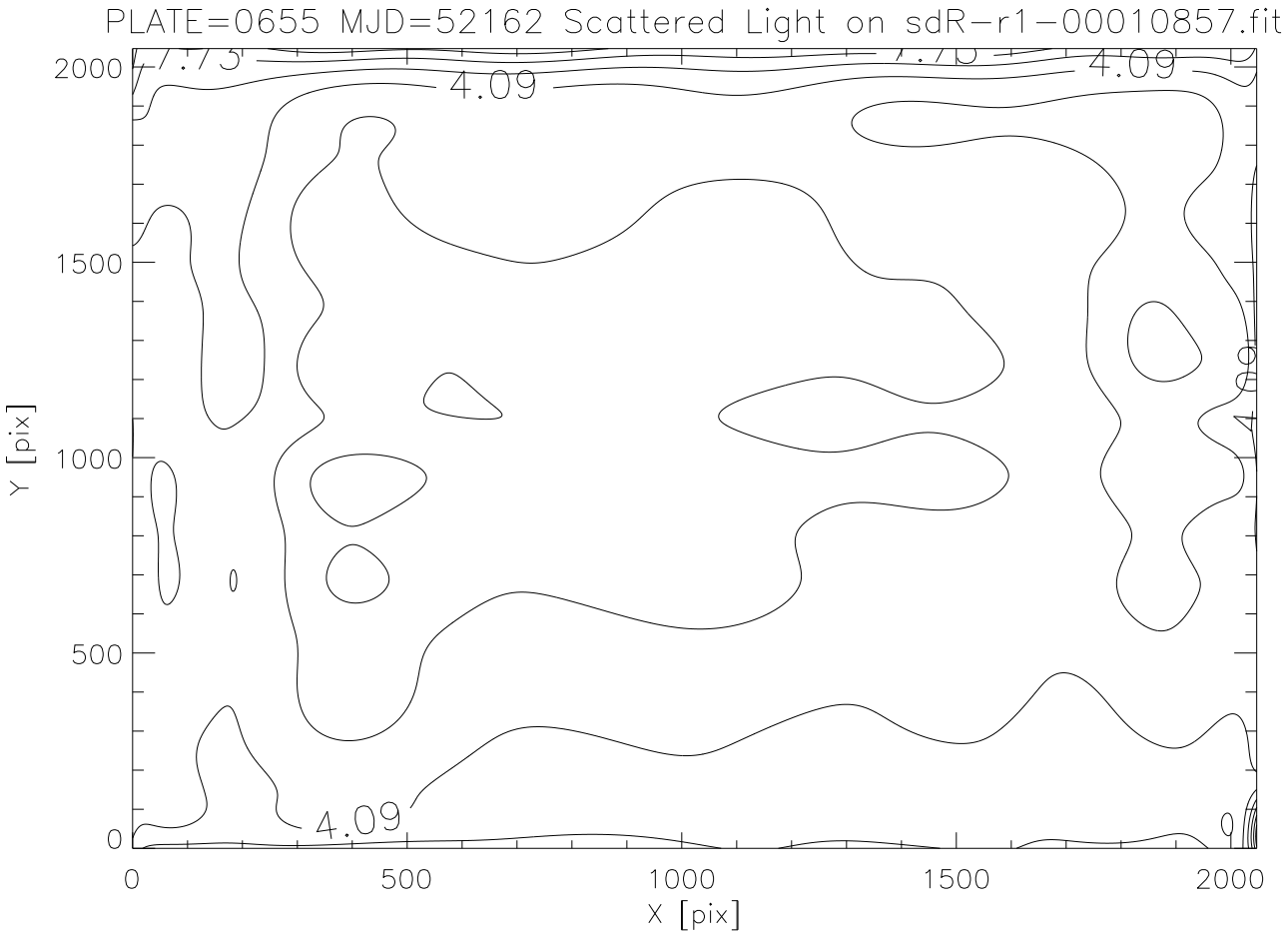

PLATE=0655 MJD=52162 sdR-r1-00010856.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.80 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

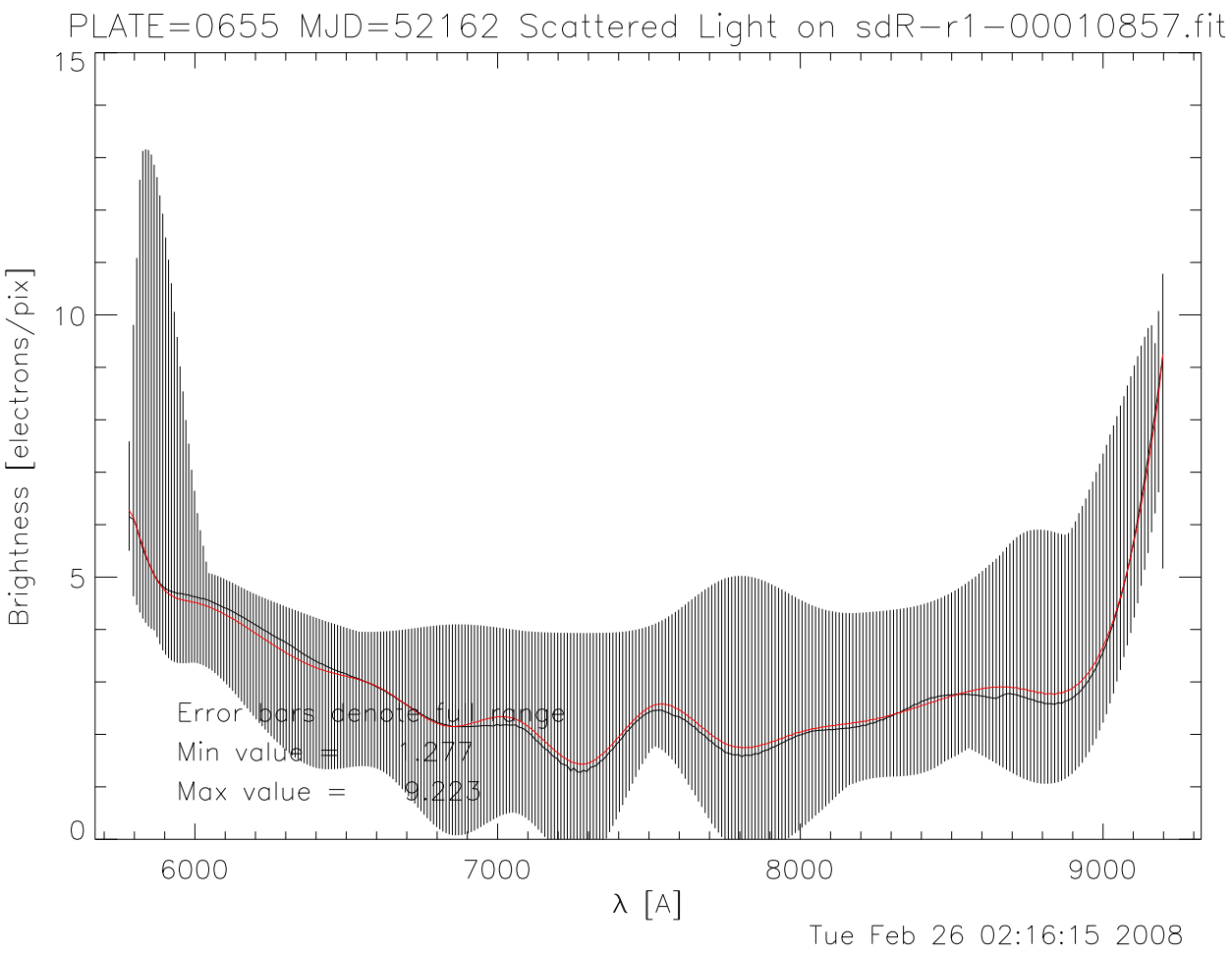

PLATE=0655 MJD=52162 sdR-r1-00010856.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.52 %
Fiber number
Focal Distance [mm]
Airmass

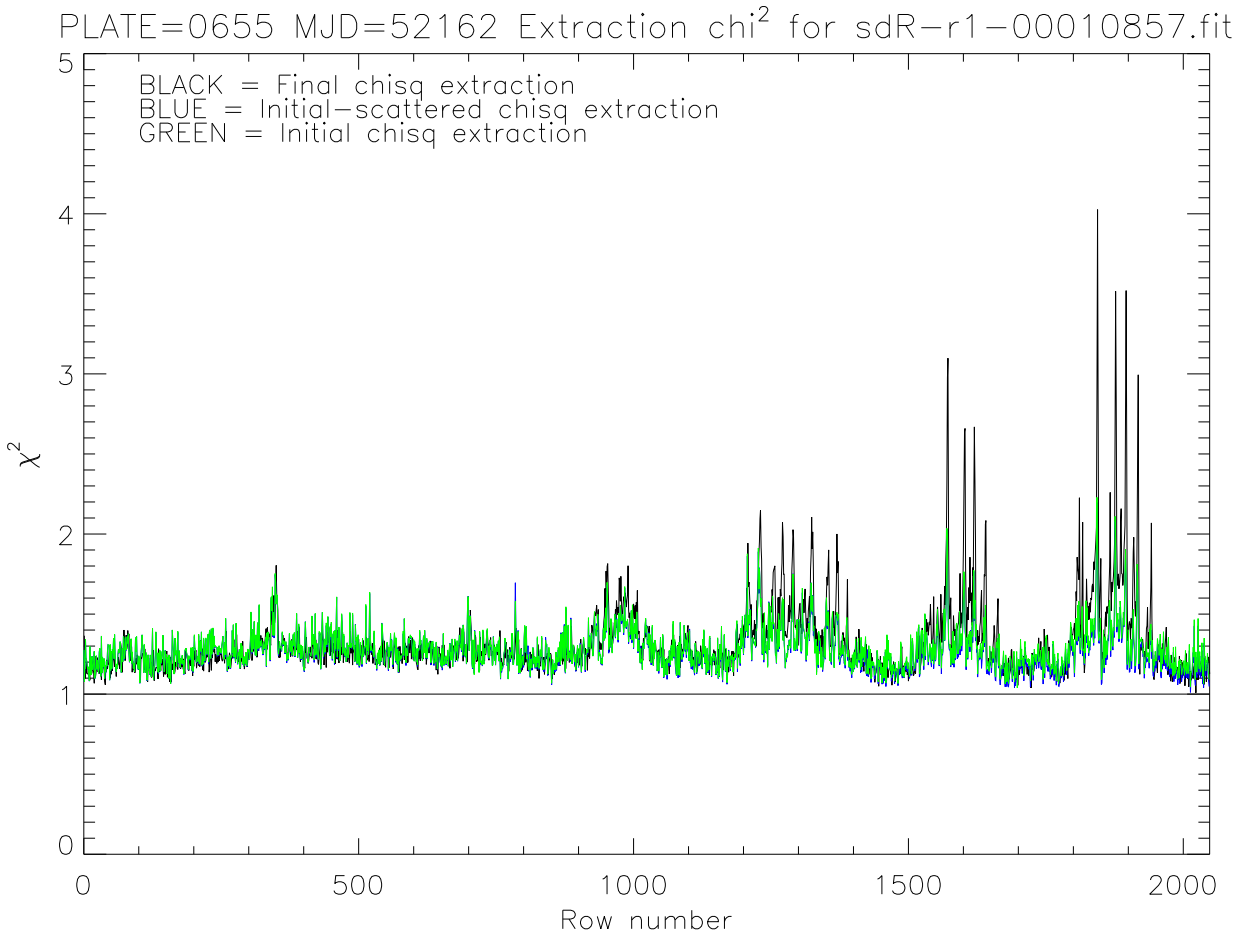

PLATE=0655 MJD=52162 Fiber−Flats for sdR−r1−00010854.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.233
Max value = 1.346
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Tue Feb 26 02:12:08 2008

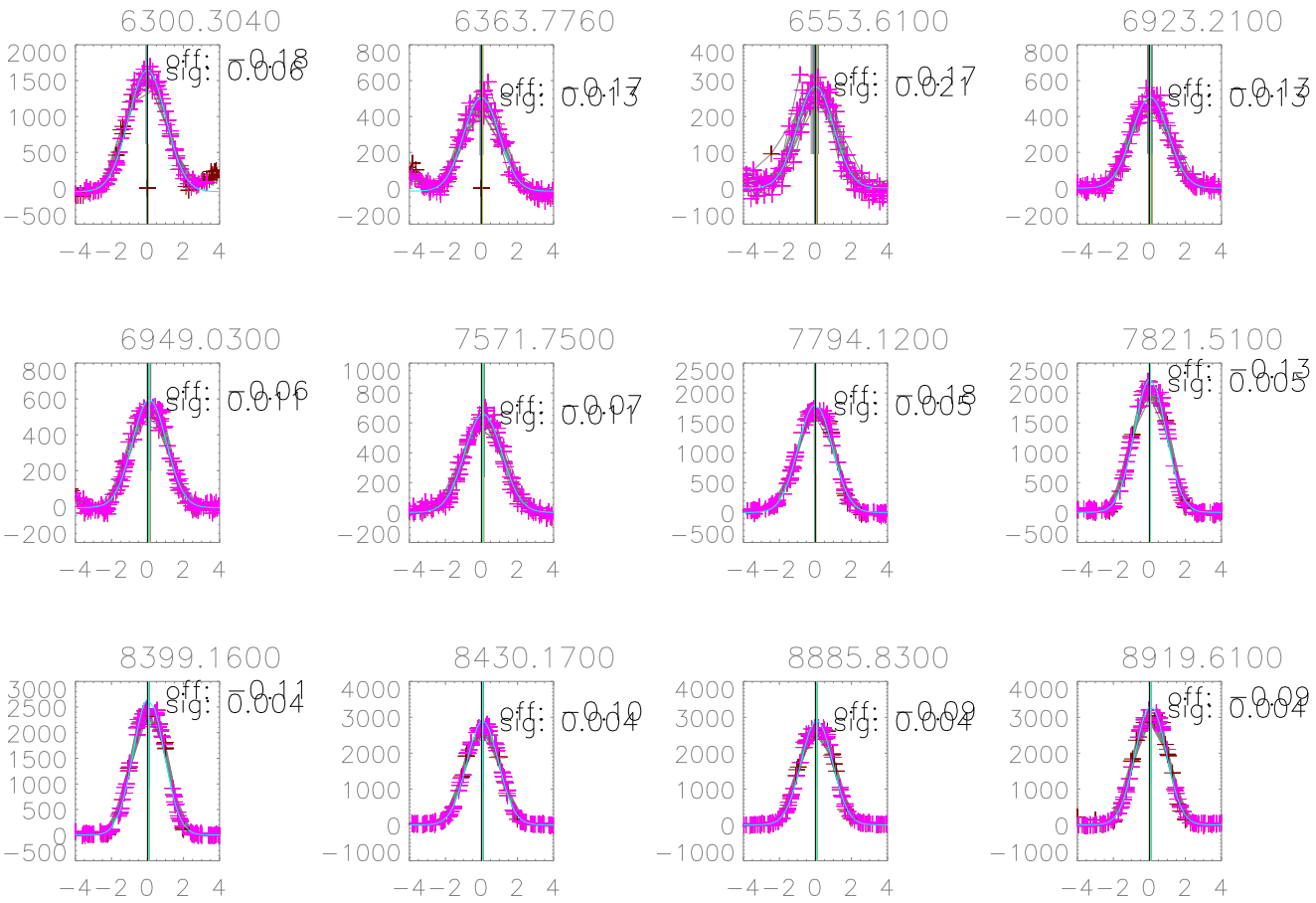

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-r1-00010857.fi
32.7
25.5
25.5
18.2
10.9
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

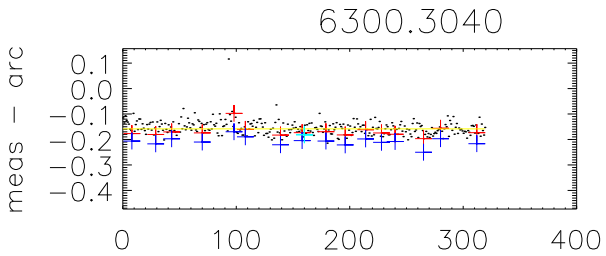

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-r1-00010857.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.222
Max value = 32.131
Tue Feb 26 02:12:58 2008

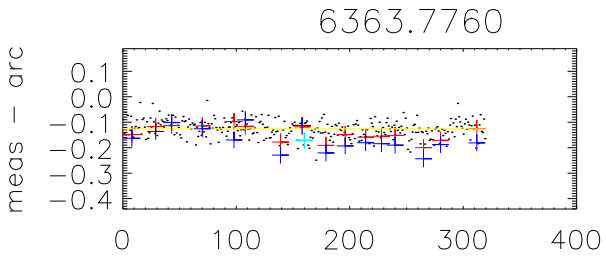

PLATE=0655 MJD=52162 Scattered Light on sdR-r1-00010857.fit
7.73
4.09
4.09
4.09
4.09
0
0
500
1000
1500
2000
Y [pix]
X [pix]

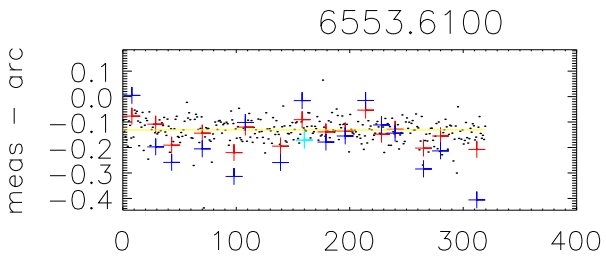

PLATE=0655 MJD=52162 Scattered Light on sdR-r1-00010857.fit
Brightness [electrons/pix]
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = -1.277
Max value = 9.223
Tue Feb 26 02:16:15 2008

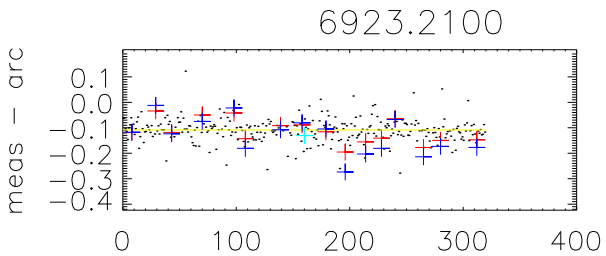

PLATE=0655 MJD=52162 Extraction chi^2 for sdR−r1−00010857.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

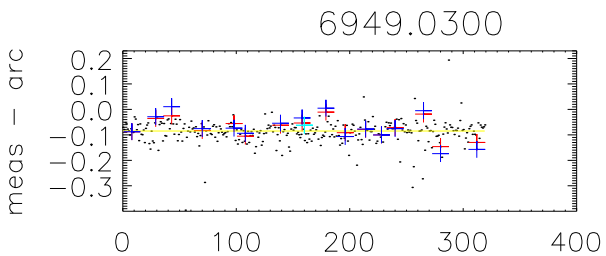

6300.3040
off: −0.18
sig: 0.008
6363.7760
off: −0.17
sig: 0.013
6553.6100
off: −0.17
sig: 0.021
6923.2100
off: −0.13
sig: 0.013
6949.0300
off: −0.06
sig: 0.011
7571.7500
off: −0.07
sig: 0.011
7794.1200
off: −0.18
sig: 0.005
7821.5100
off: −0.13
sig: 0.005
8399.1600
off: −0.11
sig: 0.004
8430.1700
off: −0.10
sig: 0.004
8885.8300
off: −0.09
sig: 0.004
8919.6100
off: −0.09
sig: 0.004

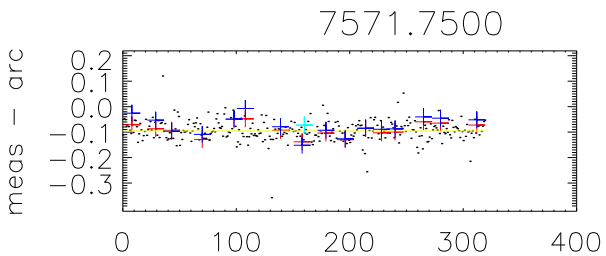

6300.3040
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

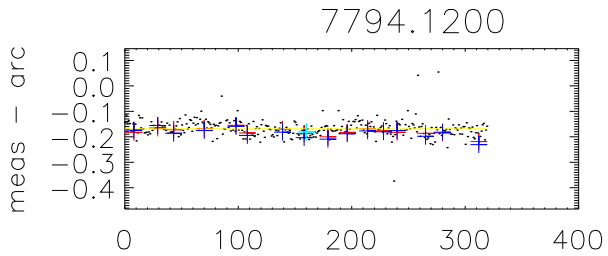

6363.7760
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

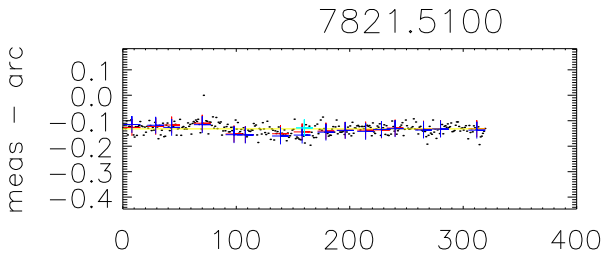

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

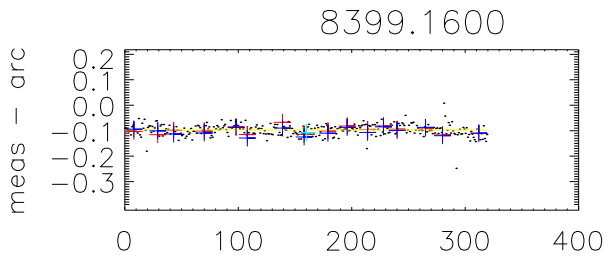

6923.2100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

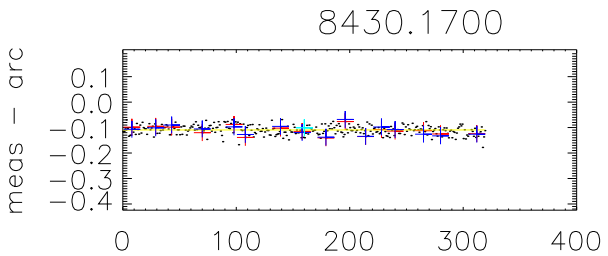

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

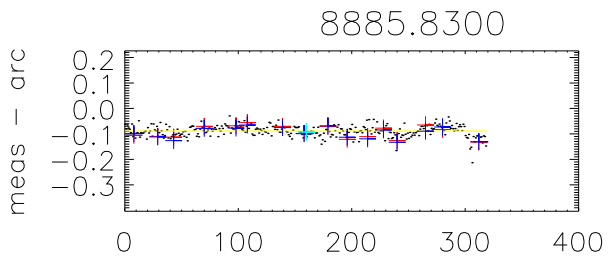

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

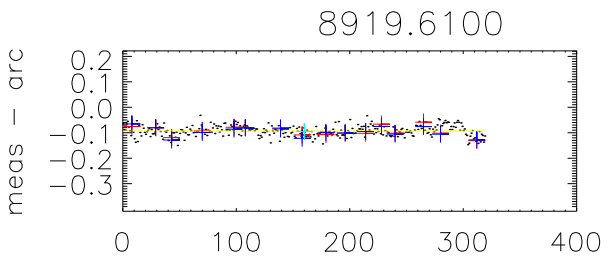

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

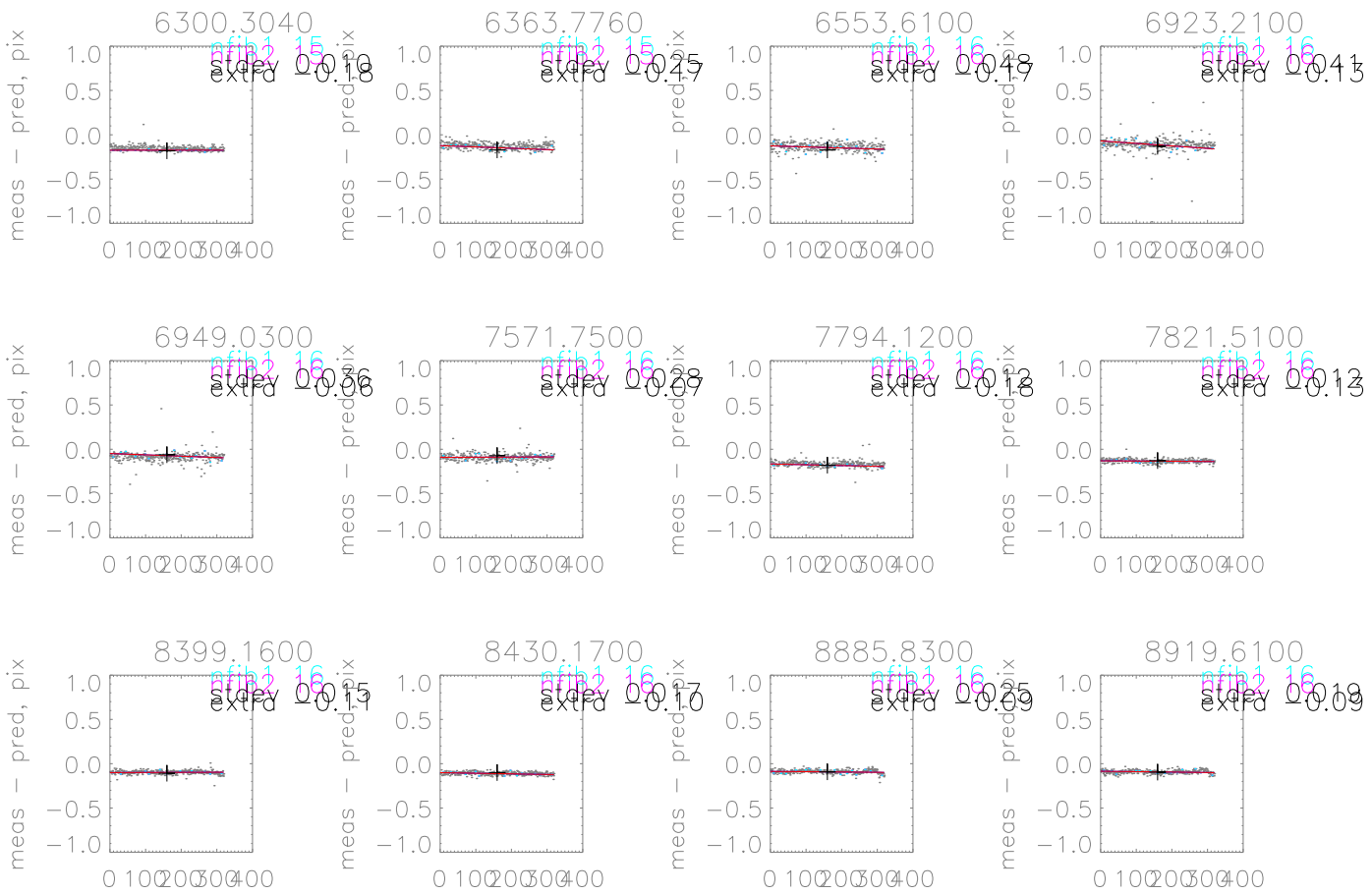

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

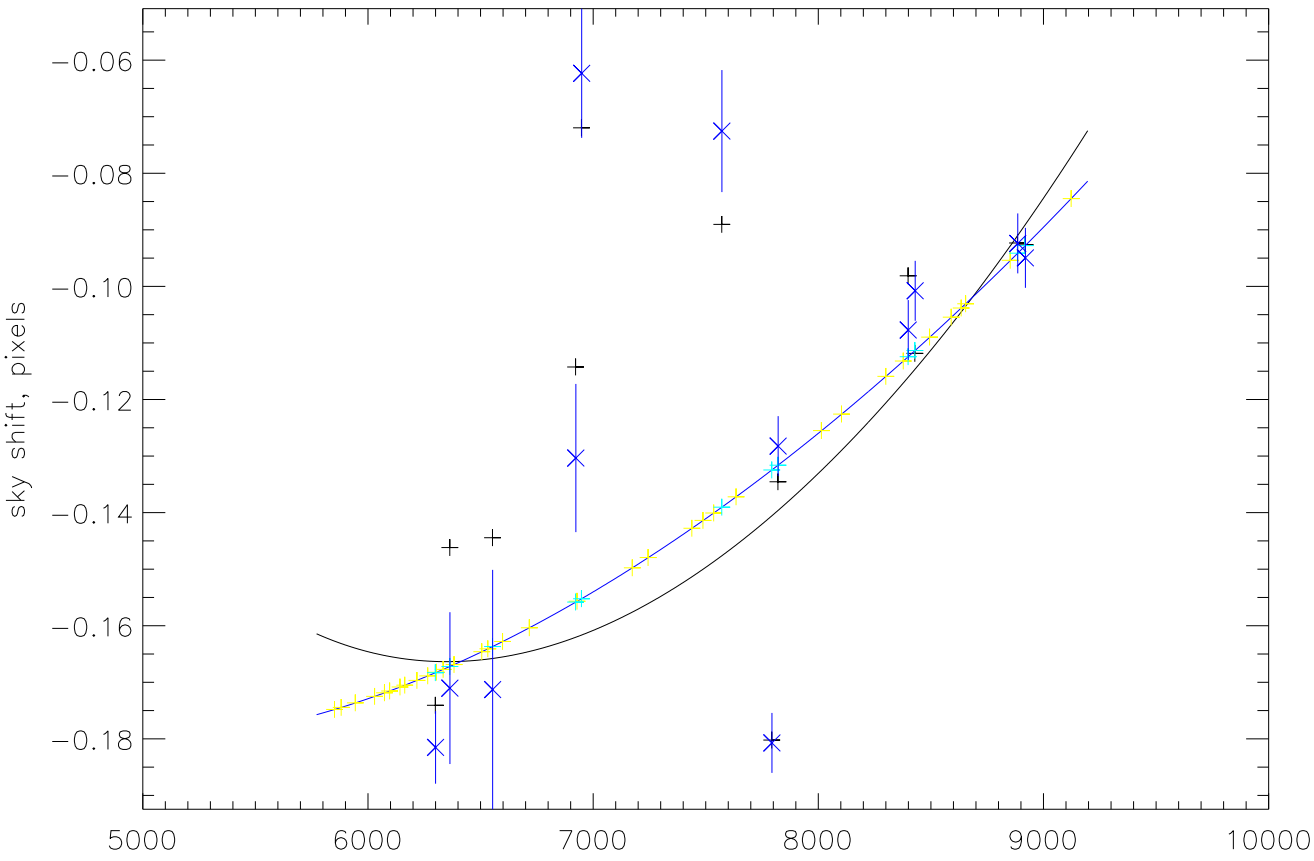

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

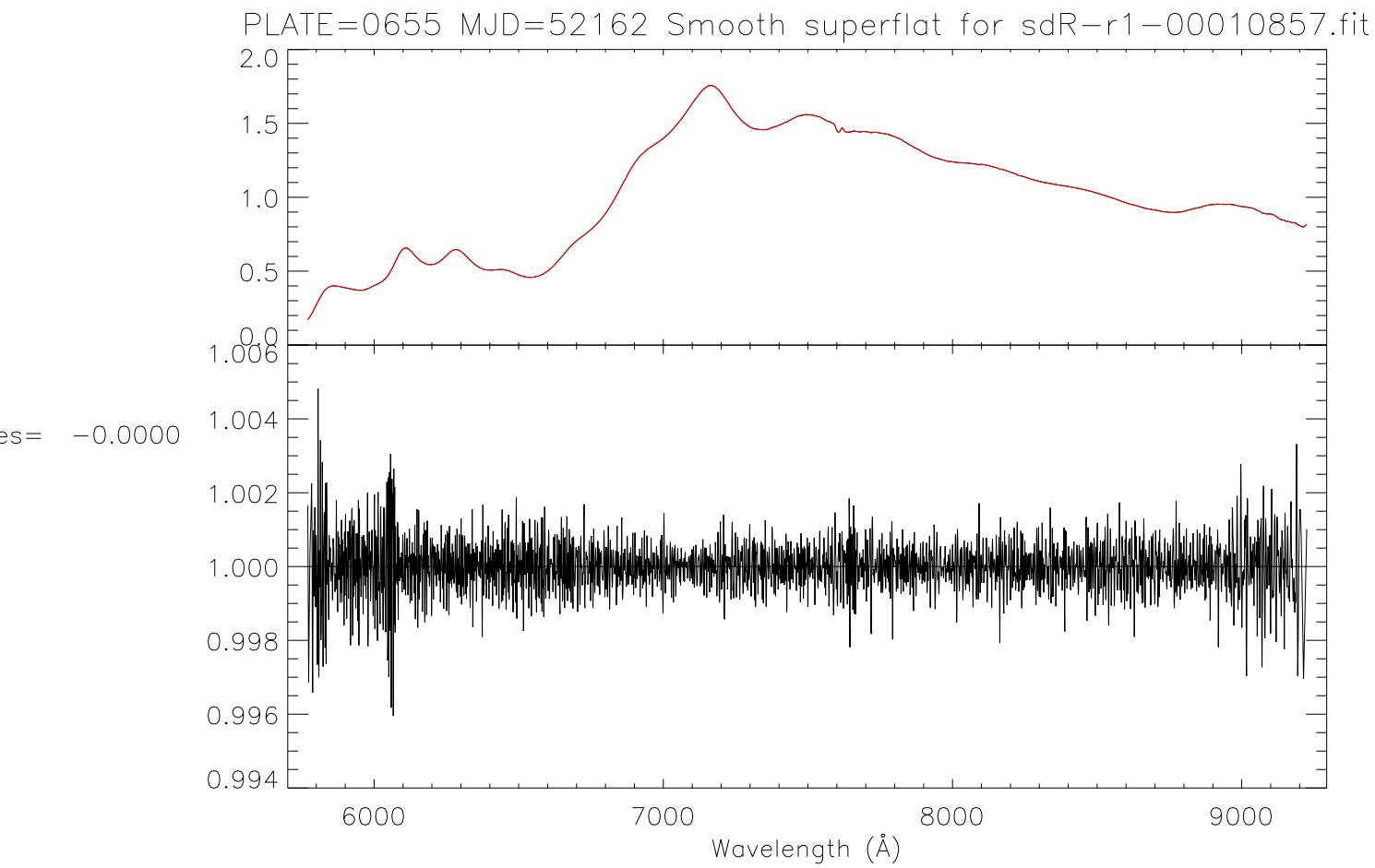

8430.1700
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

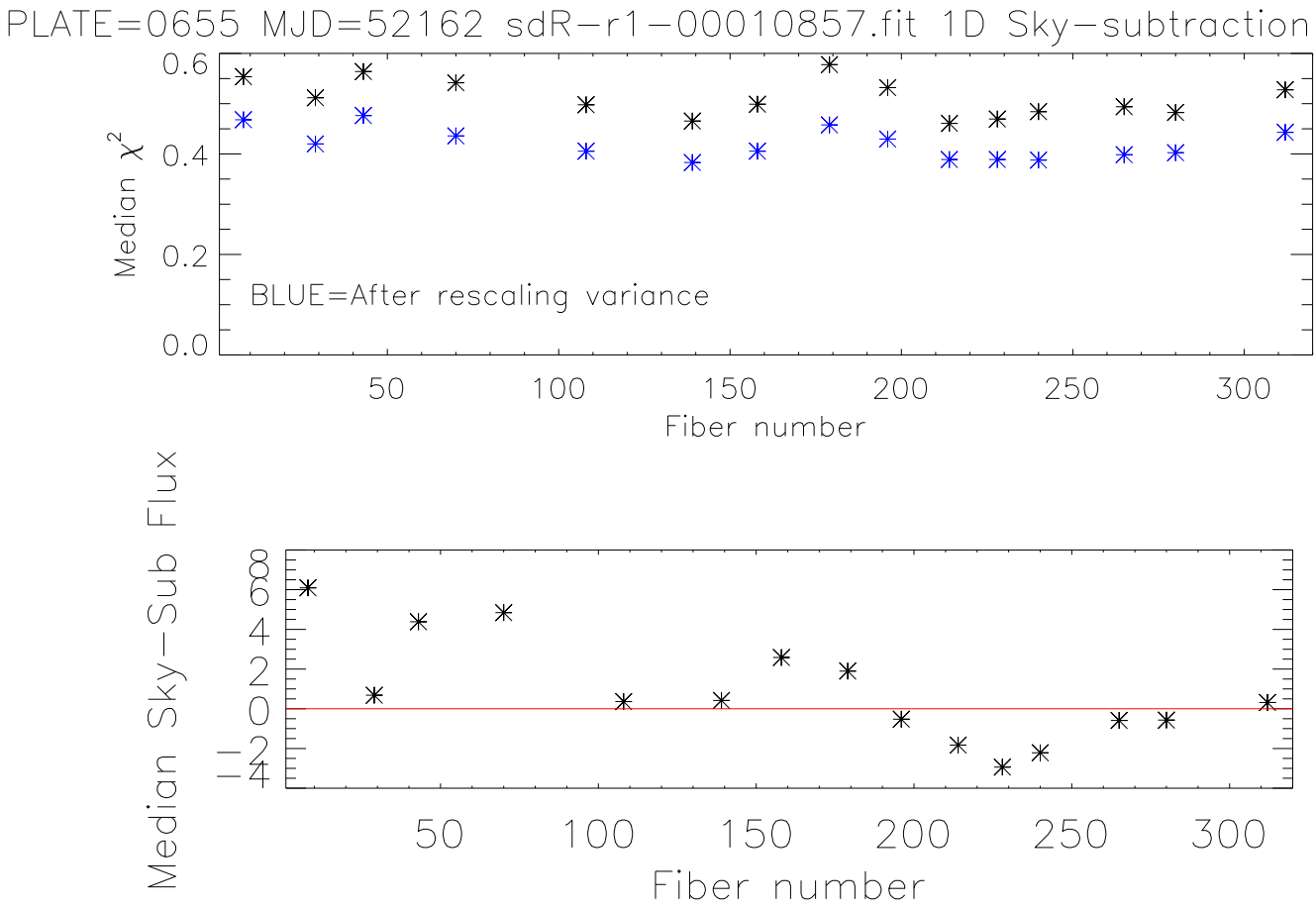

8885.8300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

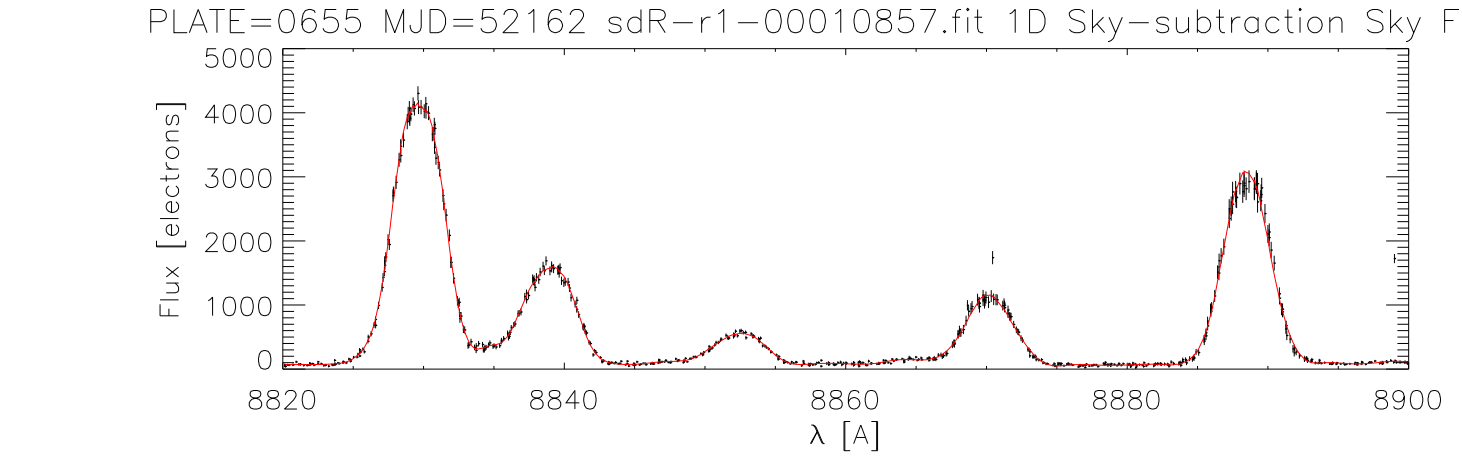

6300.3040
mfib1 15
mfib2 15
stdev 0.010
extra 0.18
6363.7760
mfib1 15
mfib2 15
stdev 0.025
extra 0.47
6553.6100
mfib1 16
mfib2 16
stdev 0.048
extra 0.17
6923.2100
mfib1 16
mfib2 16
stdev 0.041
extra 0.13
6949.0300
mfib1 16
mfib2 16
stdev 0.036
extra 0.06
7571.7500
mfib1 16
mfib2 16
stdev 0.028
extra 0.07
7794.1200
mfib1 16
mfib2 16
stdev 0.012
extra 0.18
7821.5100
mfib1 16
mfib2 16
stdev 0.012
extra 0.13
8399.1600
mfib1 16
mfib2 16
stdev 0.015
extra 0.11
8430.1700
mfib1 16
mfib2 16
stdev 0.017
extra 0.10
8885.8300
mfib1 16
mfib2 16
stdev 0.025
extra 0.09
8919.6100
mfib1 16
mfib2 16
stdev 0.019
extra 0.09
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

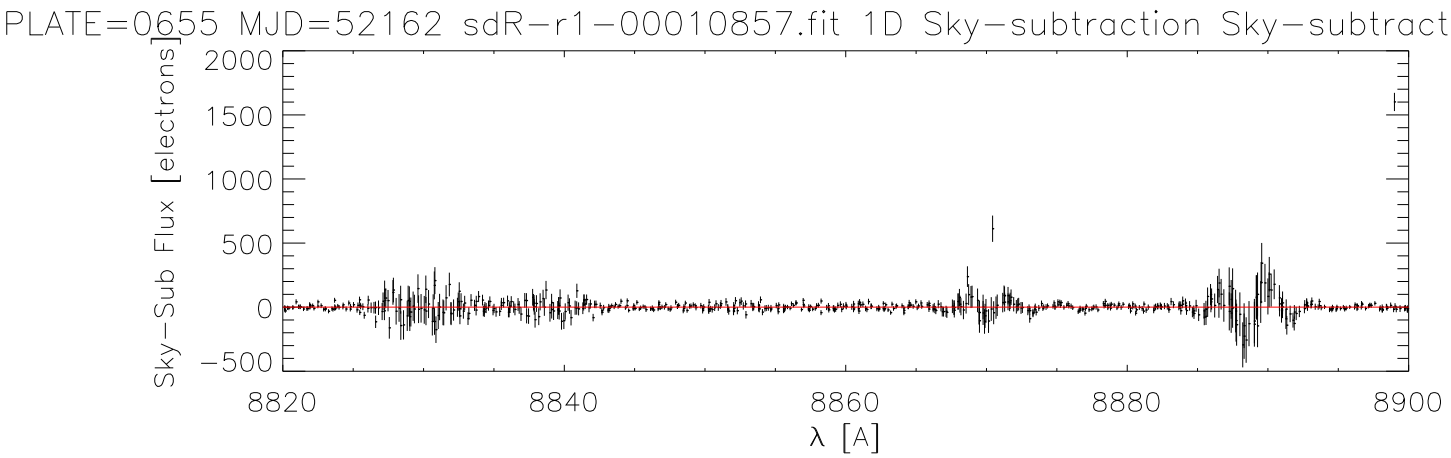

sky shift, pixels
−0.06
−0.08
−0.10
−0.12
−0.14
−0.16
−0.18
5000
6000
7000
8000
9000
10000

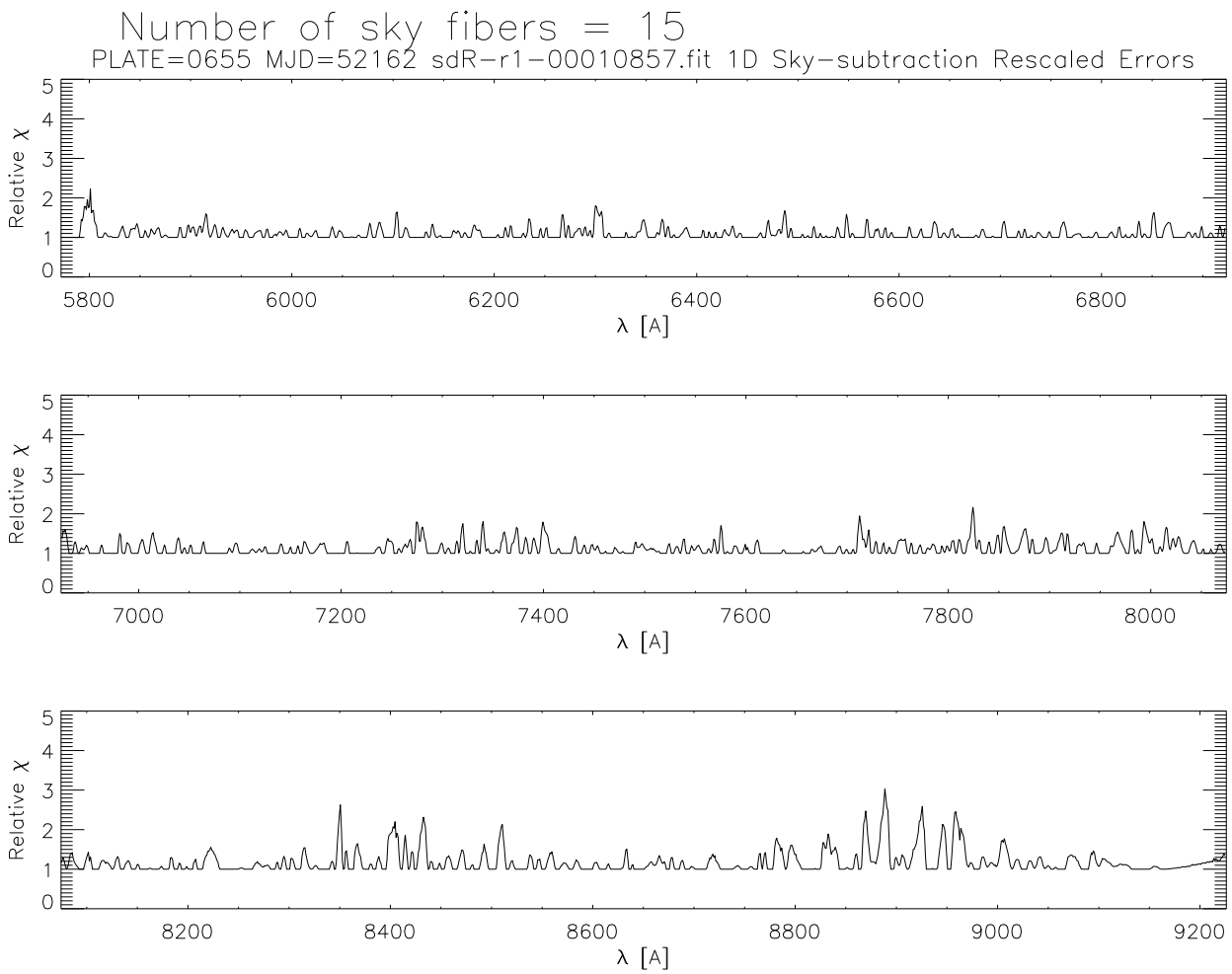

PLATE=0655 MJD=52162 Smooth superflat for sdR-r1-00010857.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

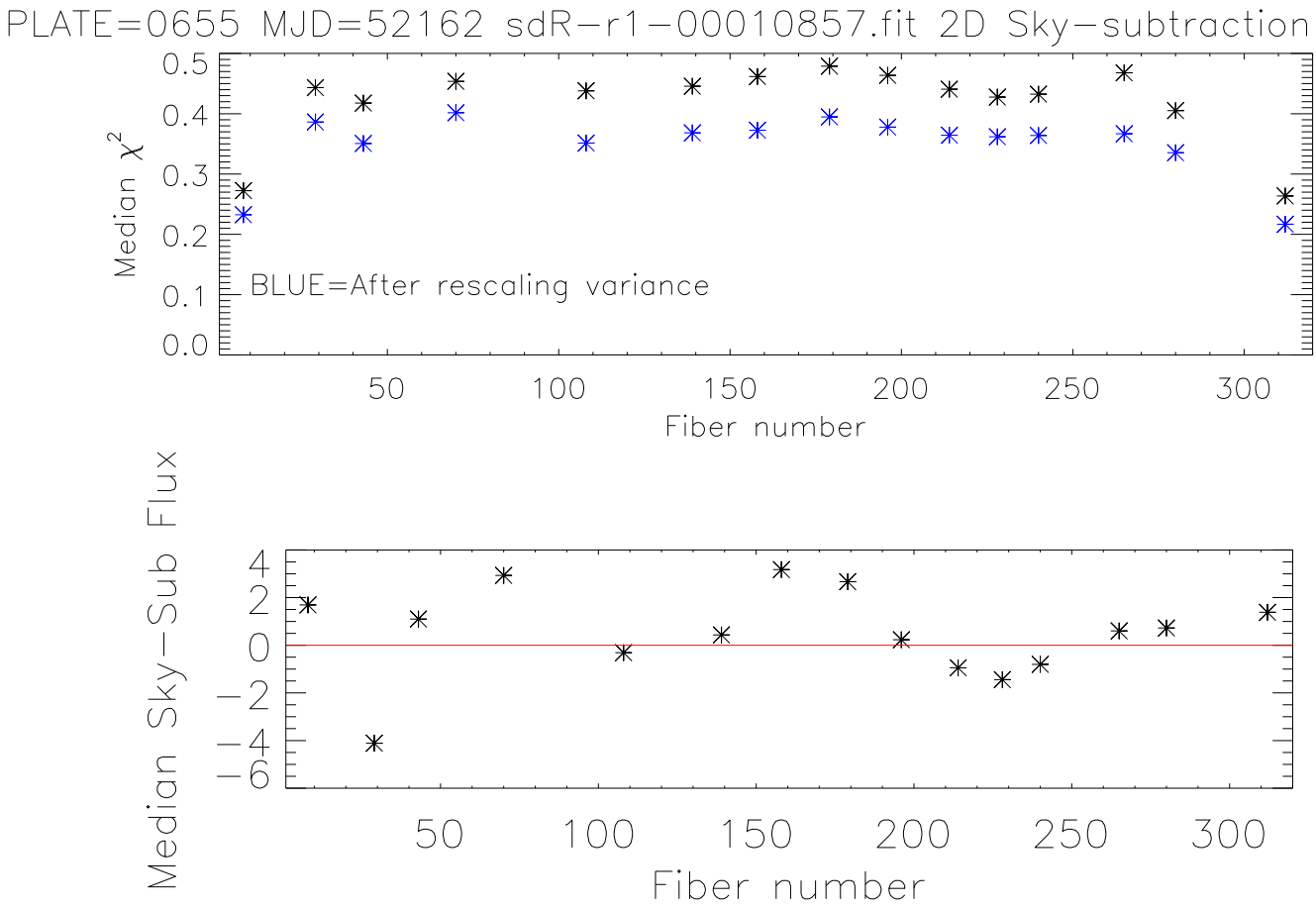

PLATE=0655 MJD=52162 sdR-r1-00010857.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

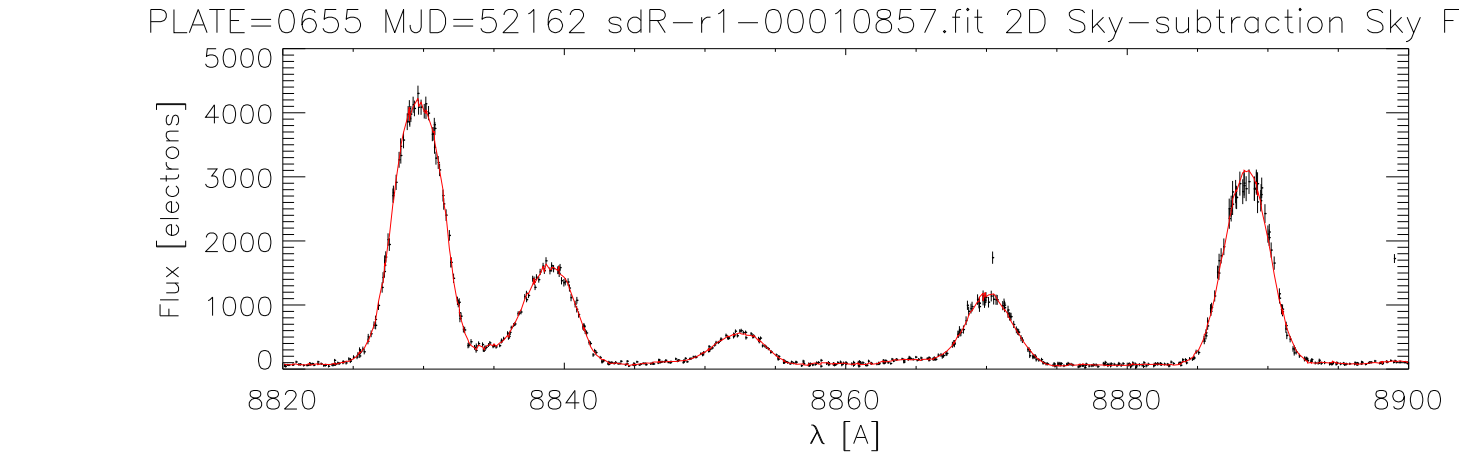
Median Sky-Sub Flux
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

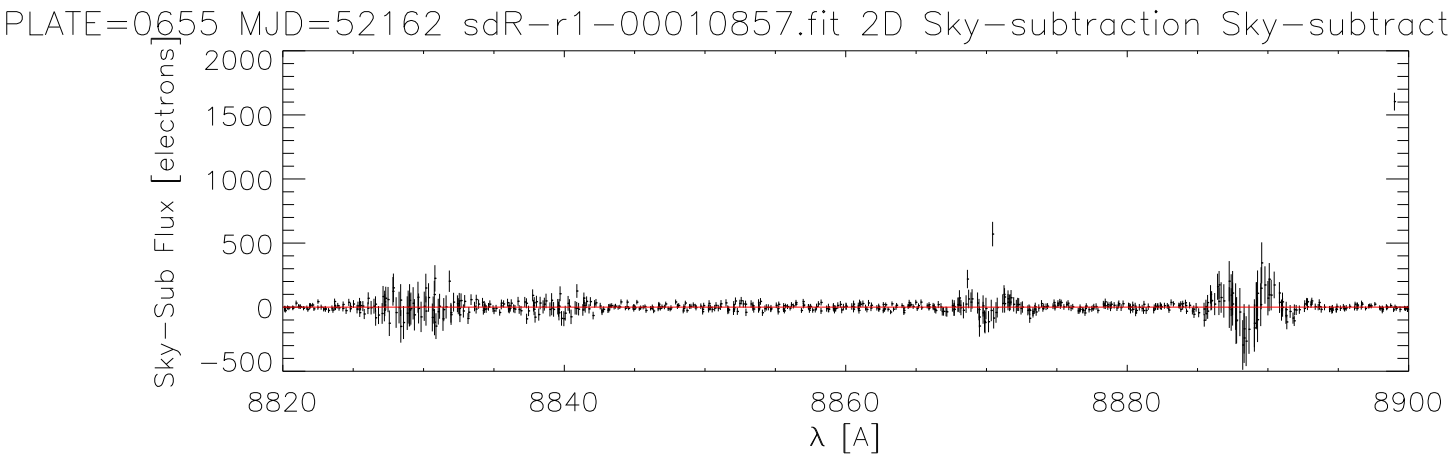

PLATE=0655 MJD=52162 sdR-r1-00010857.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

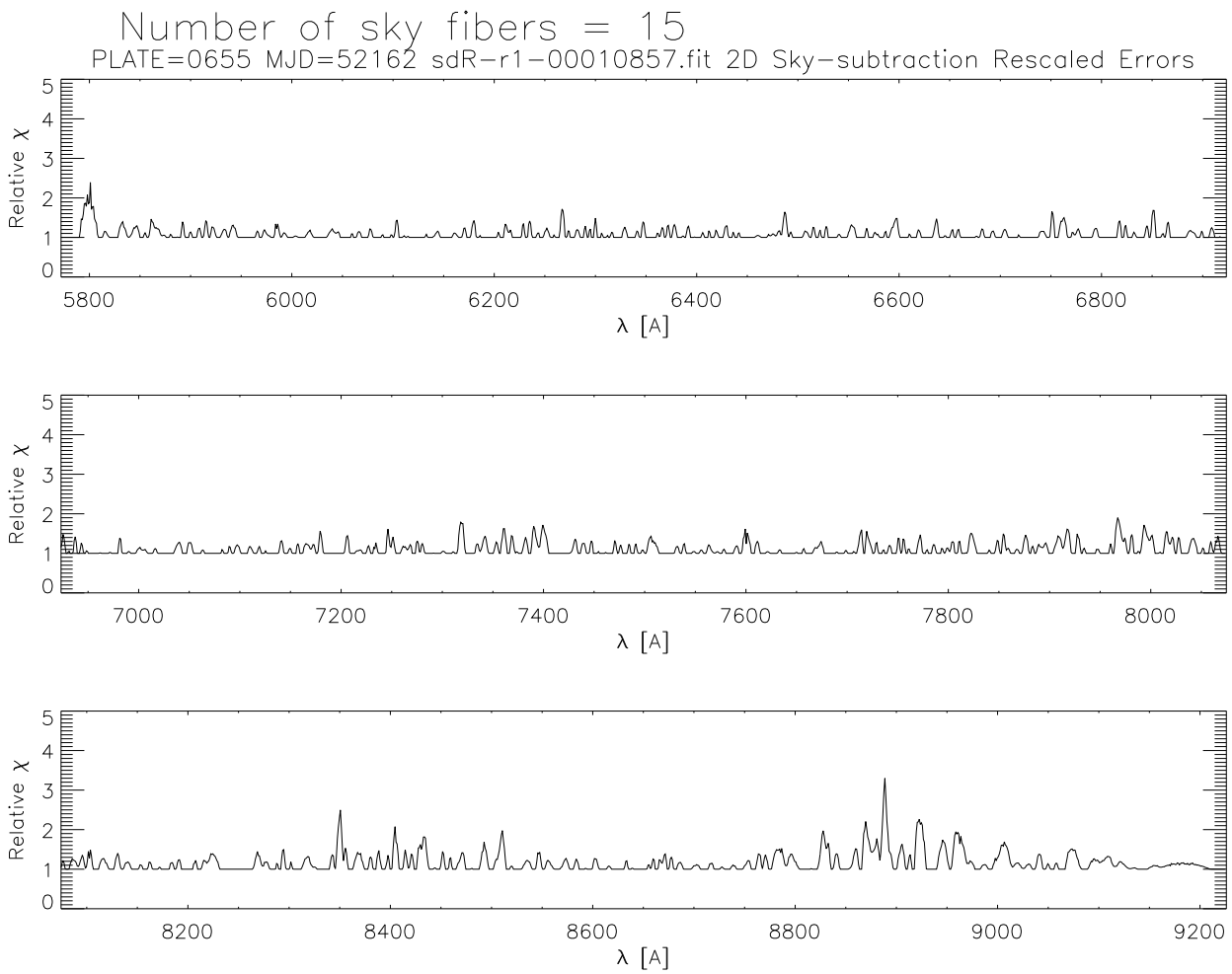

PLATE=0655 MJD=52162 sdR-r1-00010857.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

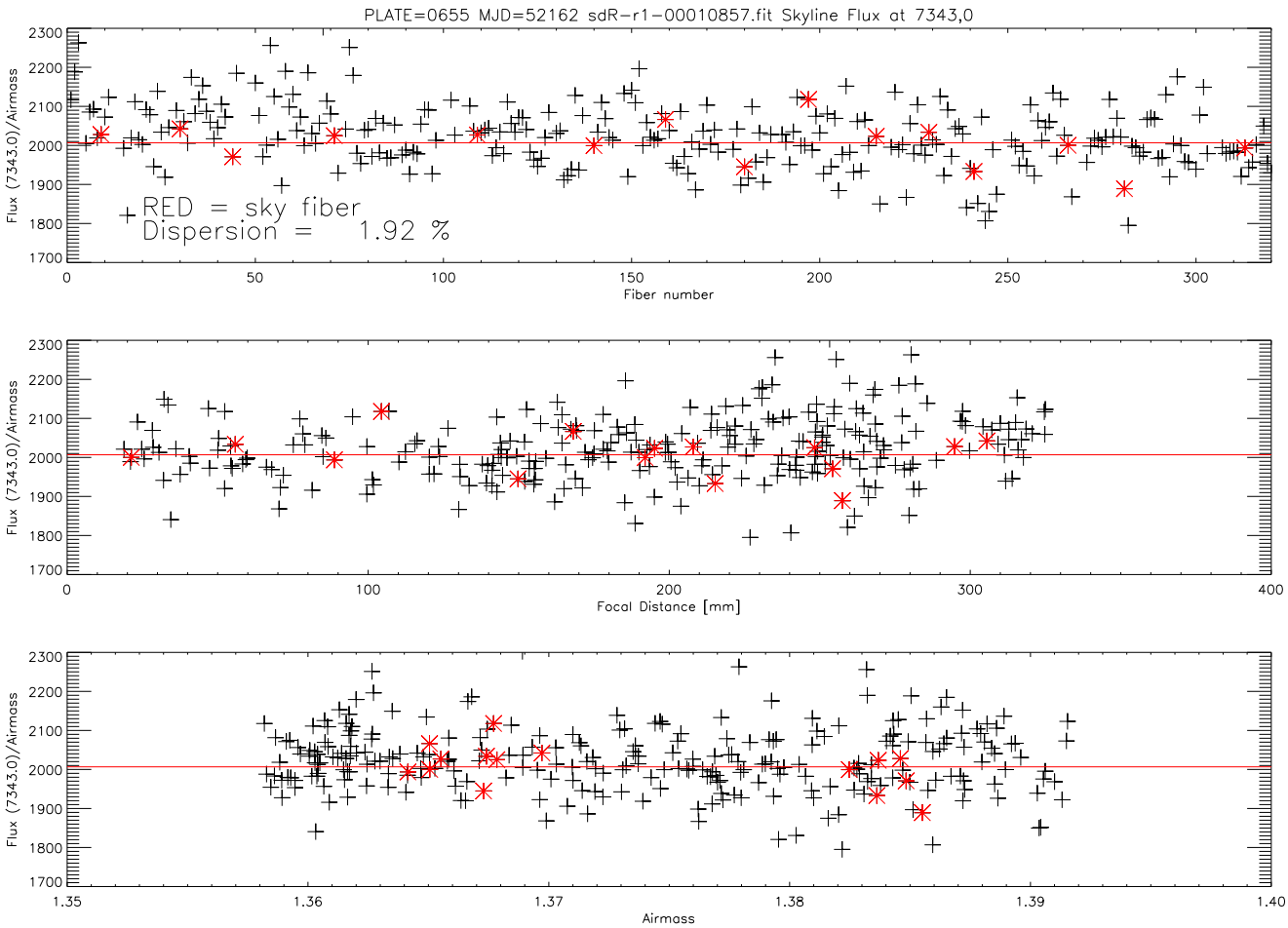

Number of sky fibers = 15
PLATE=0655 MJD=52162 sdR-r1-00010857.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

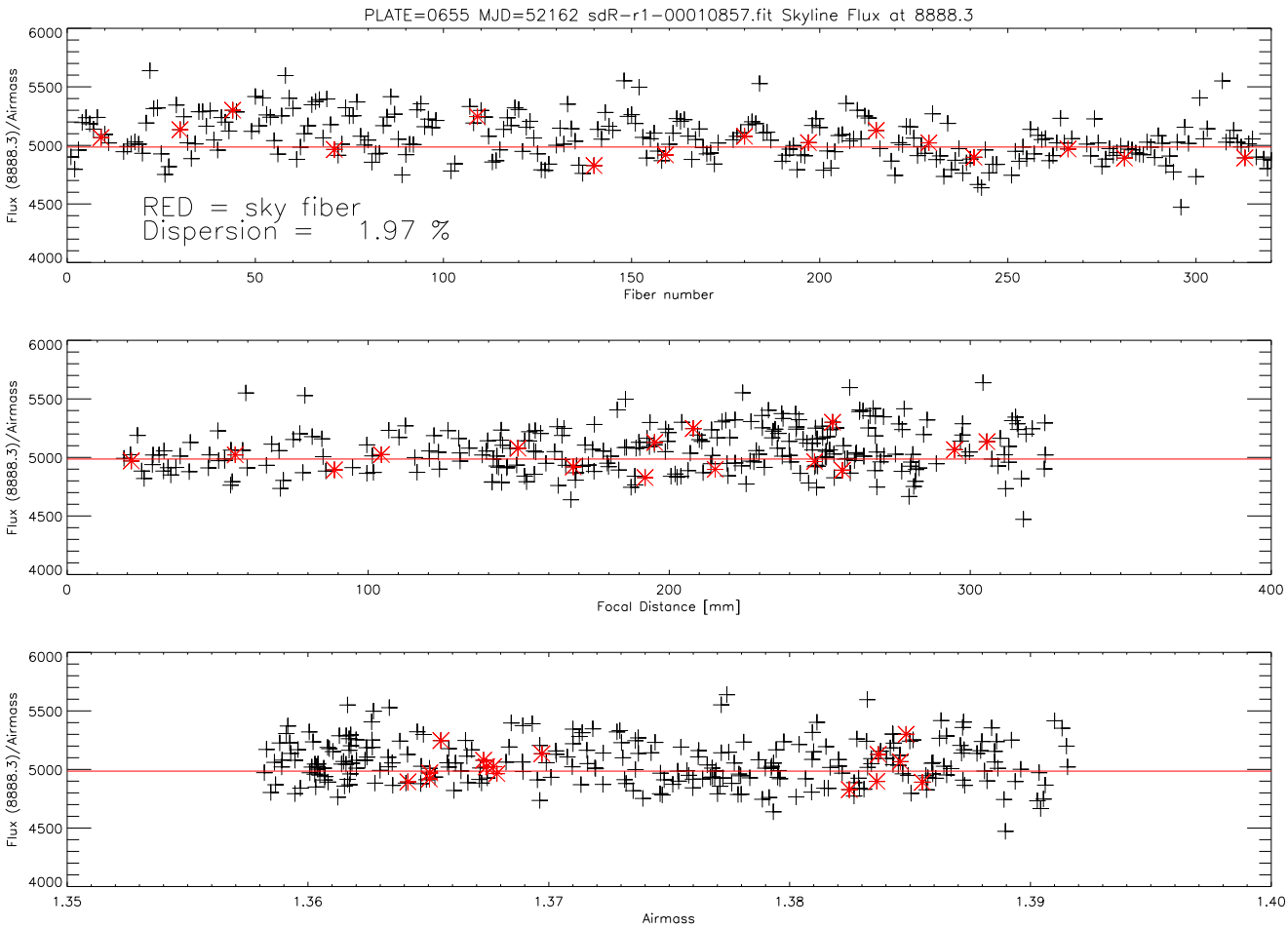

PLATE=0655 MJD=52162 sdR-r1-00010857.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

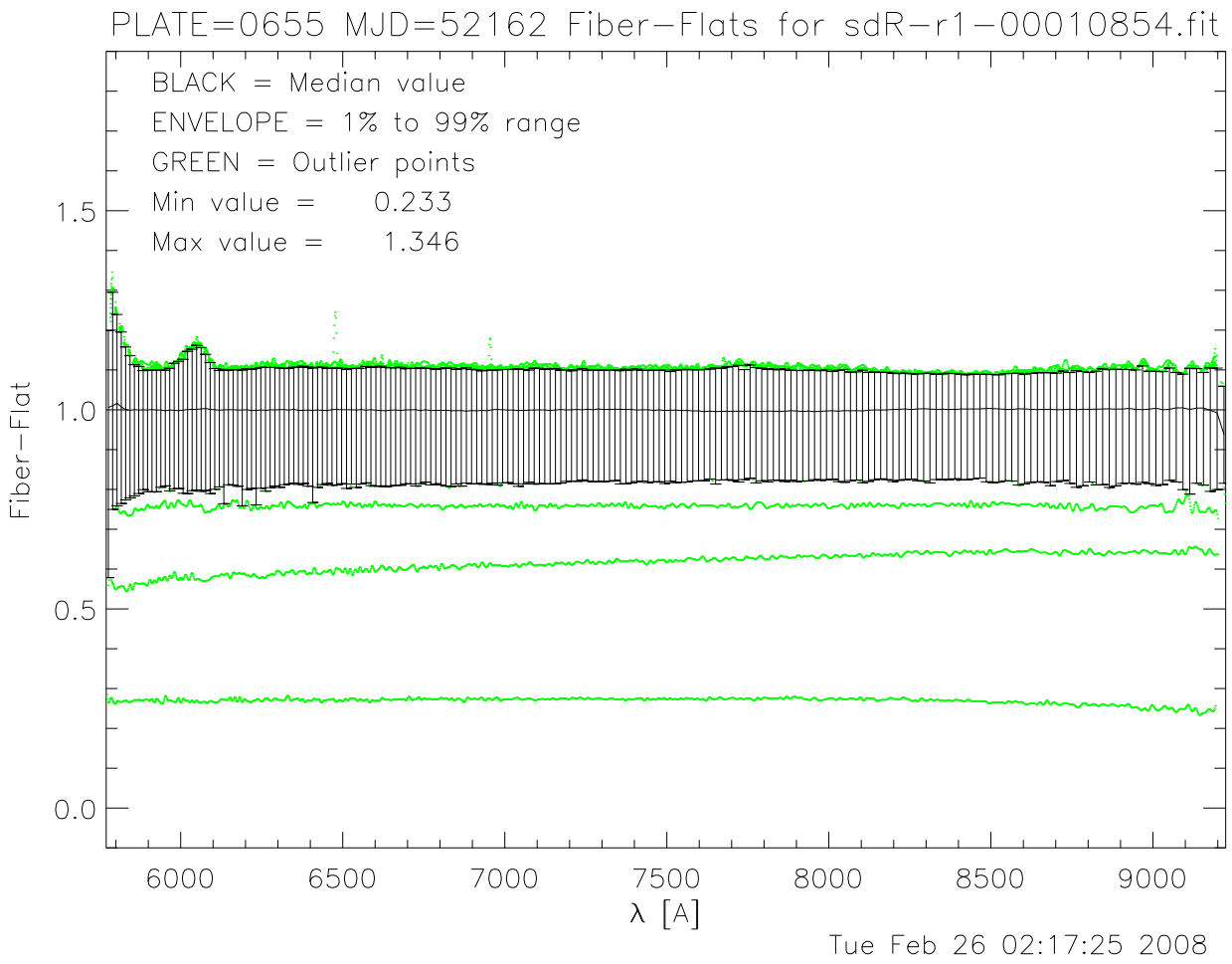

PLATE=0655 MJD=52162 sdR-r1-00010857.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

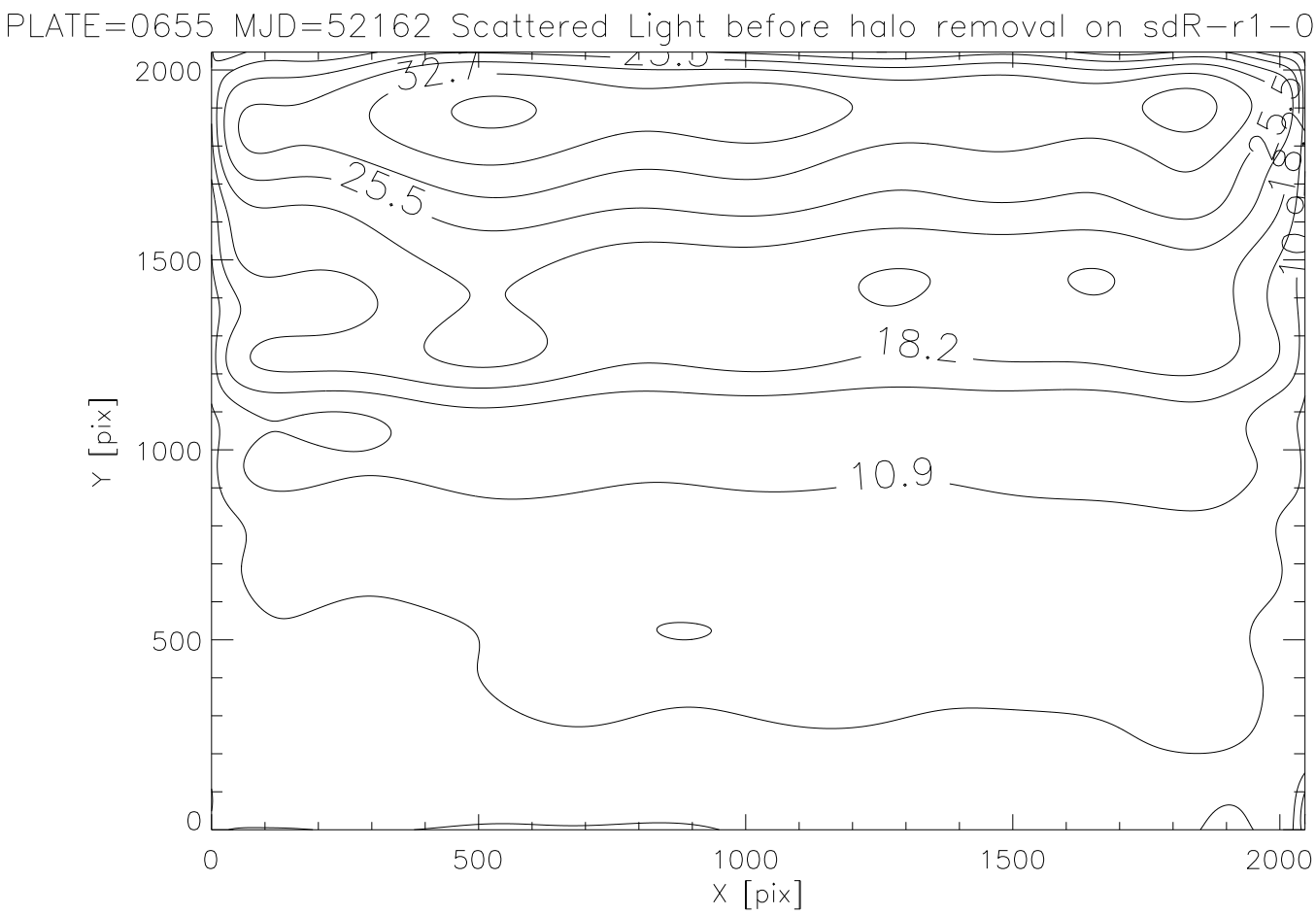

PLATE=0655 MJD=52162 sdR-r1-00010857.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

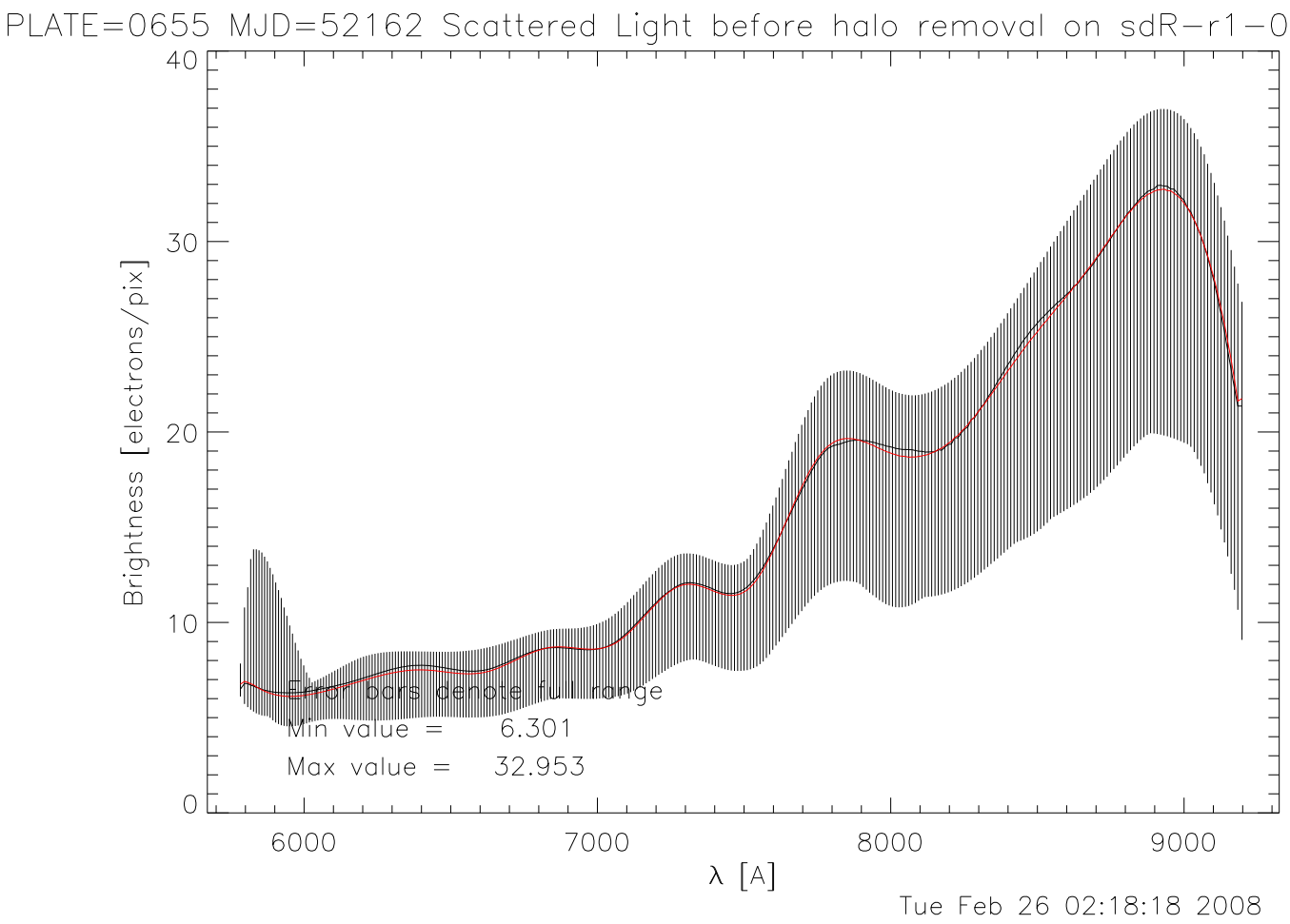

Number of sky fibers = 15
PLATE=0655 MJD=52162 sdR-r1-00010857.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

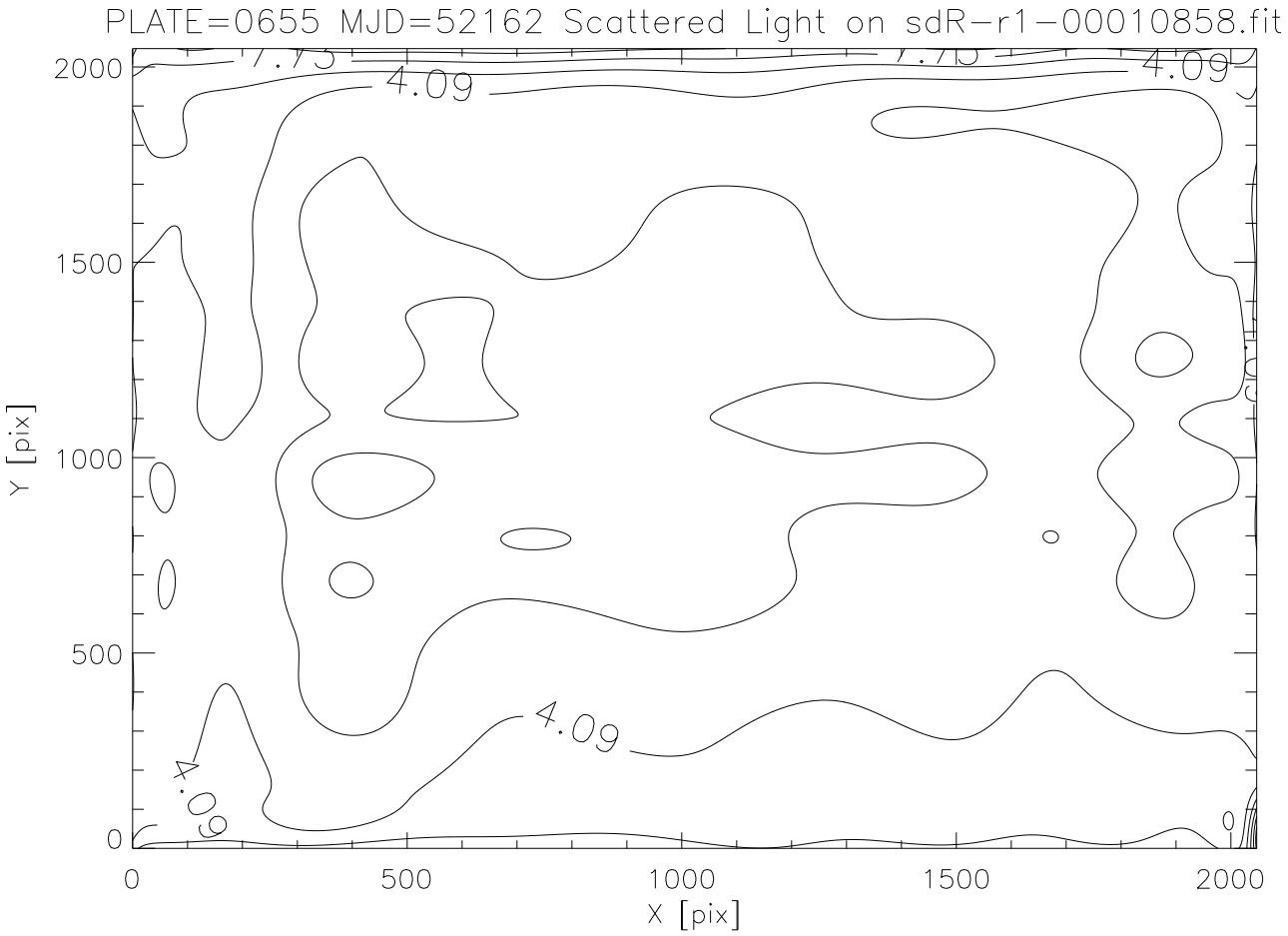

PLATE=0655 MJD=52162 sdR-r1-00010857.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 1.92 %
Fiber number
Focal Distance [mm]
Airmass

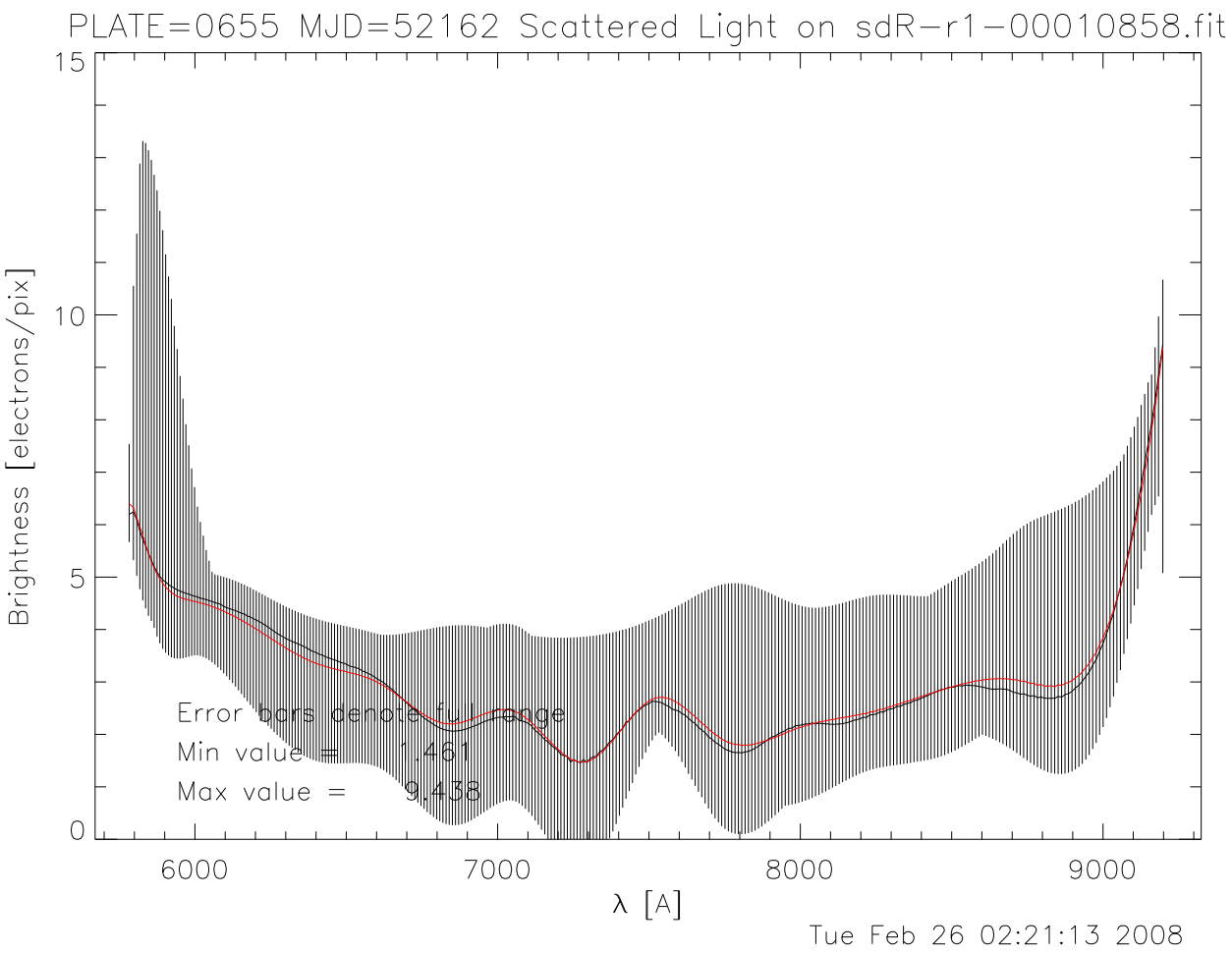

PLATE=0655 MJD=52162 sdR-r1-00010857.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.97 %
Fiber number
Focal Distance [mm]
Airmass

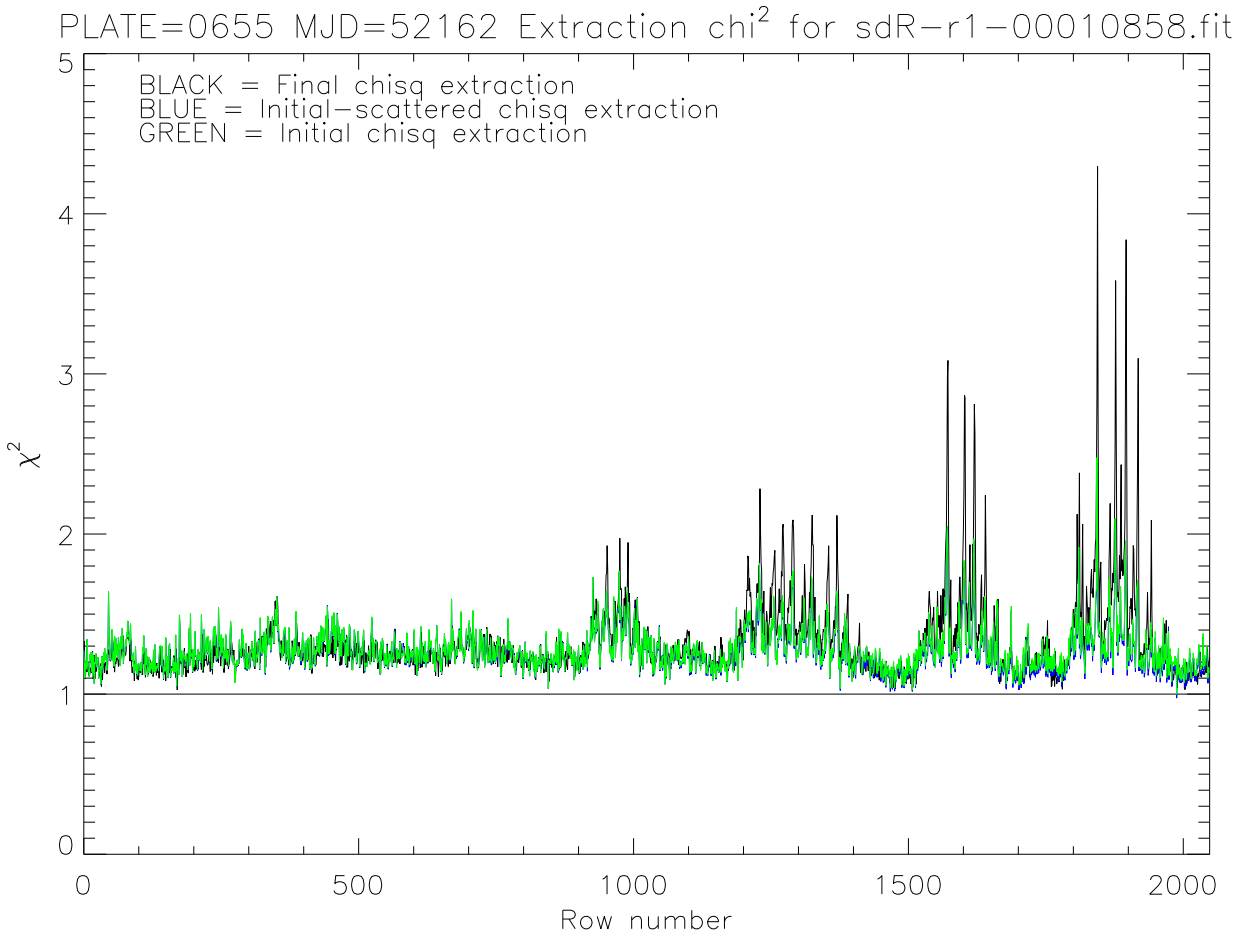

PLATE=0655 MJD=52162 Fiber−Flats for sdR−r1−00010854.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.233
Max value = 1.346
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Tue Feb 26 02:17:25 2008

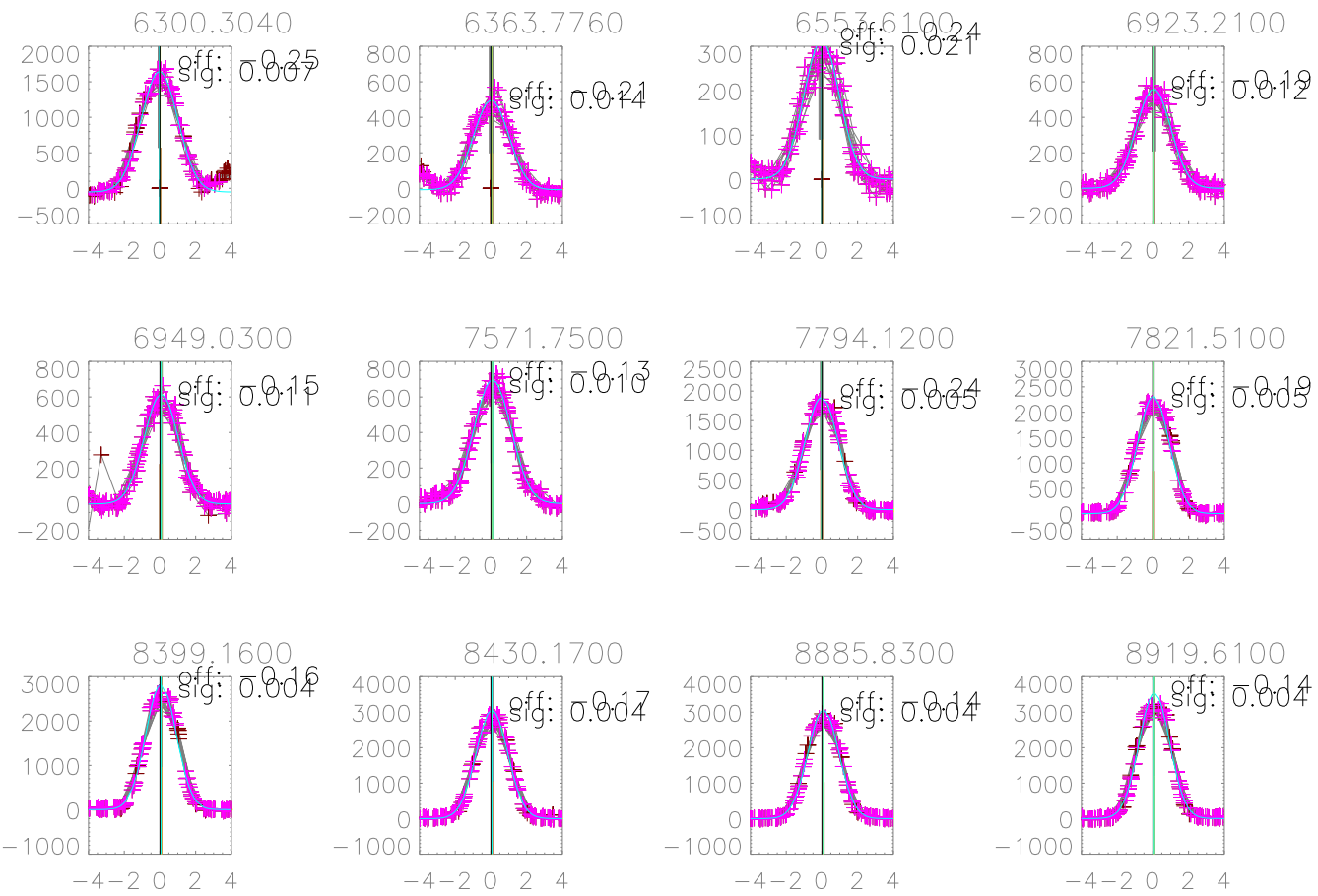

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-r1-00010858.fi
32.7
25.5
18.2
10.9
Y [pix]
X [pix]
0
500
1000
1500
2000

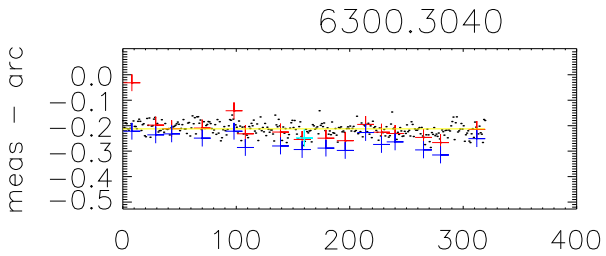

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-r1-00010858.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.301
Max value = 32.953
Tue Feb 26 02:18:18 2008

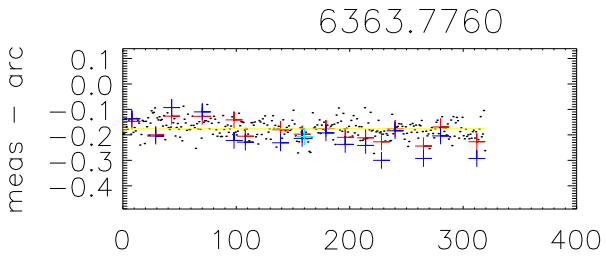

PLATE=0655 MJD=52162 Scattered Light on sdR-r1-00010858.fit
7.73
4.09
4.09
4.09
4.09
0
0
500
1000
1500
2000
Y [pix]
X [pix]

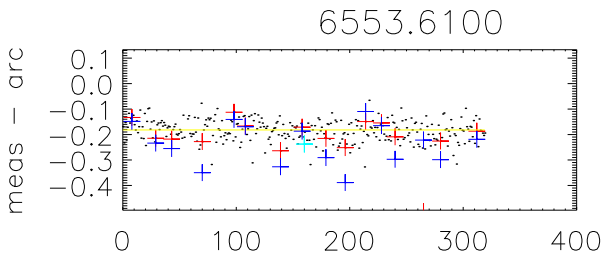

PLATE=0655 MJD=52162 Scattered Light on sdR-r1-00010858.fit
Brightness [electrons/pix]
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 1.461
Max value = 9.438
Tue Feb 26 02:21:13 2008

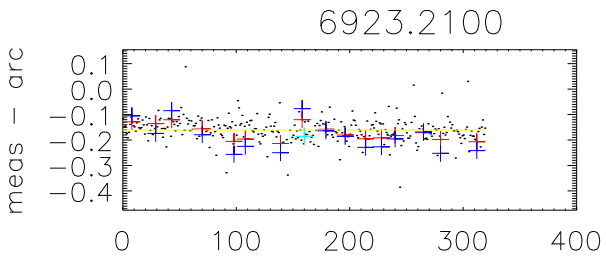

PLATE=0655 MJD=52162 Extraction chi^2 for sdR−r1−00010858.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

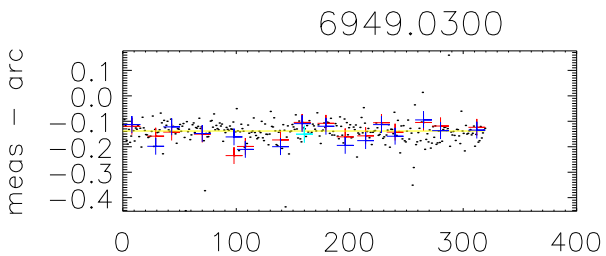

6300.3040
off: −0.25
sig: 0.007
6363.7760
off: −0.21
sig: 0.014
6553.6100
off: −0.24
sig: 0.021
6923.2100
off: −0.19
sig: 0.012
6949.0300
off: −0.15
sig: 0.011
7571.7500
off: −0.13
sig: 0.010
7794.1200
off: −0.24
sig: 0.005
7821.5100
off: −0.19
sig: 0.005
8399.1600
off: −0.16
sig: 0.004
8430.1700
off: −0.17
sig: 0.004
8885.8300
off: −0.14
sig: 0.004
8919.6100
off: −0.14
sig: 0.004

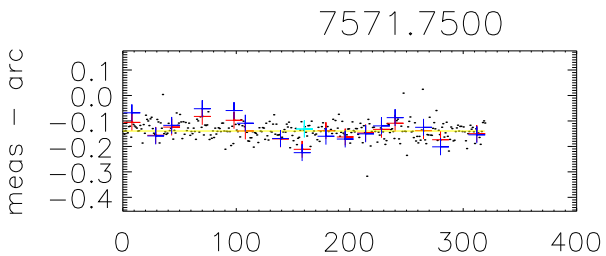

6300.3040
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

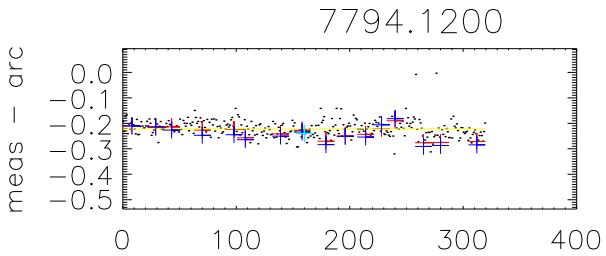

6363.7760
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

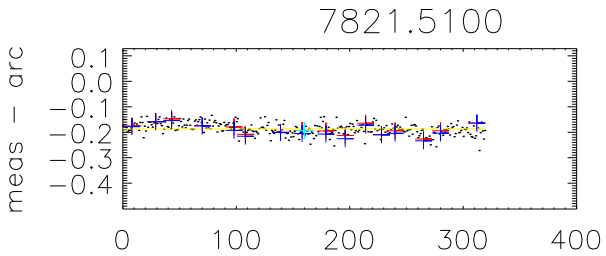

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

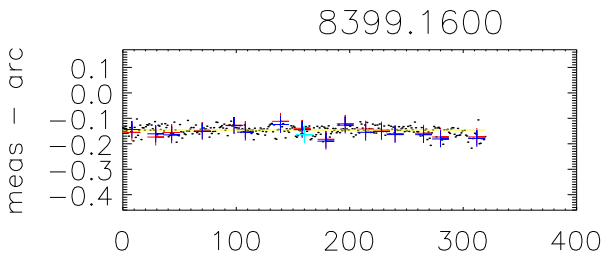

6923.2100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

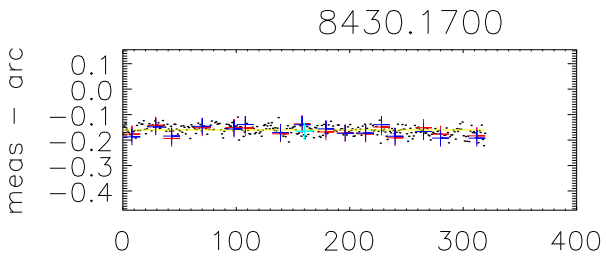

6949.0300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

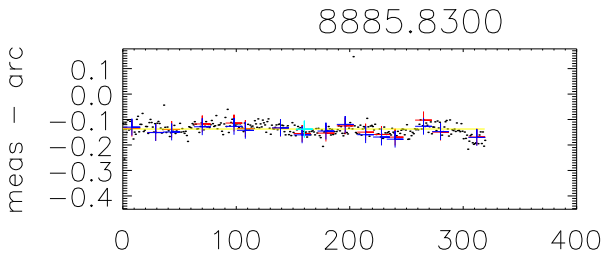

7571.7500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

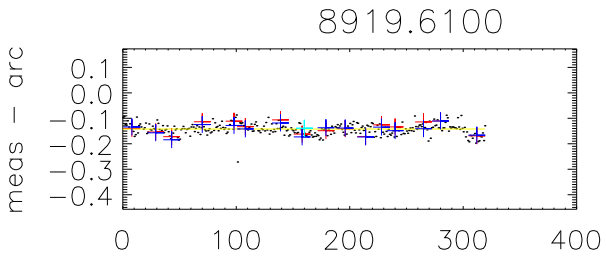

7794.1200
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

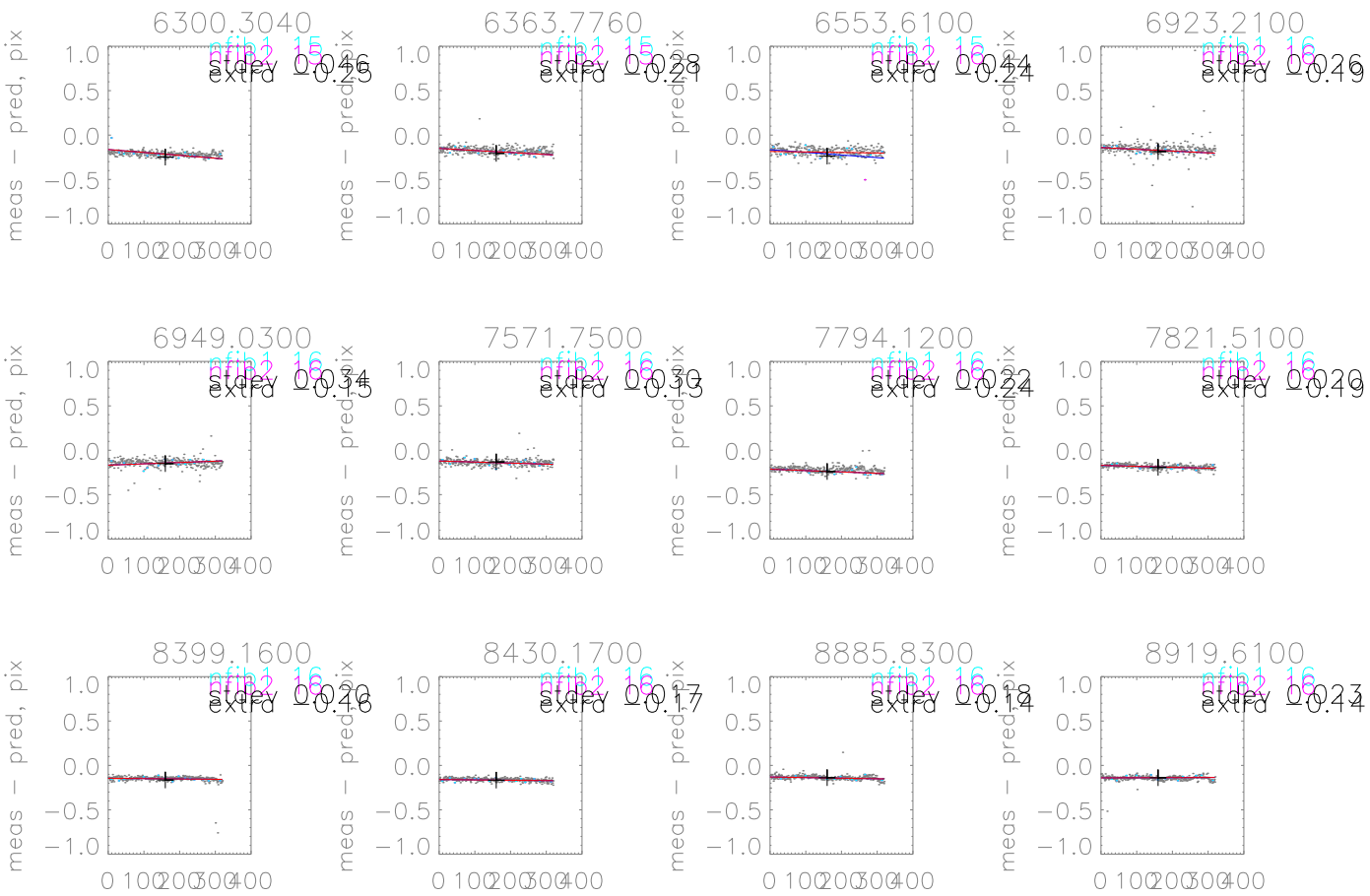

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

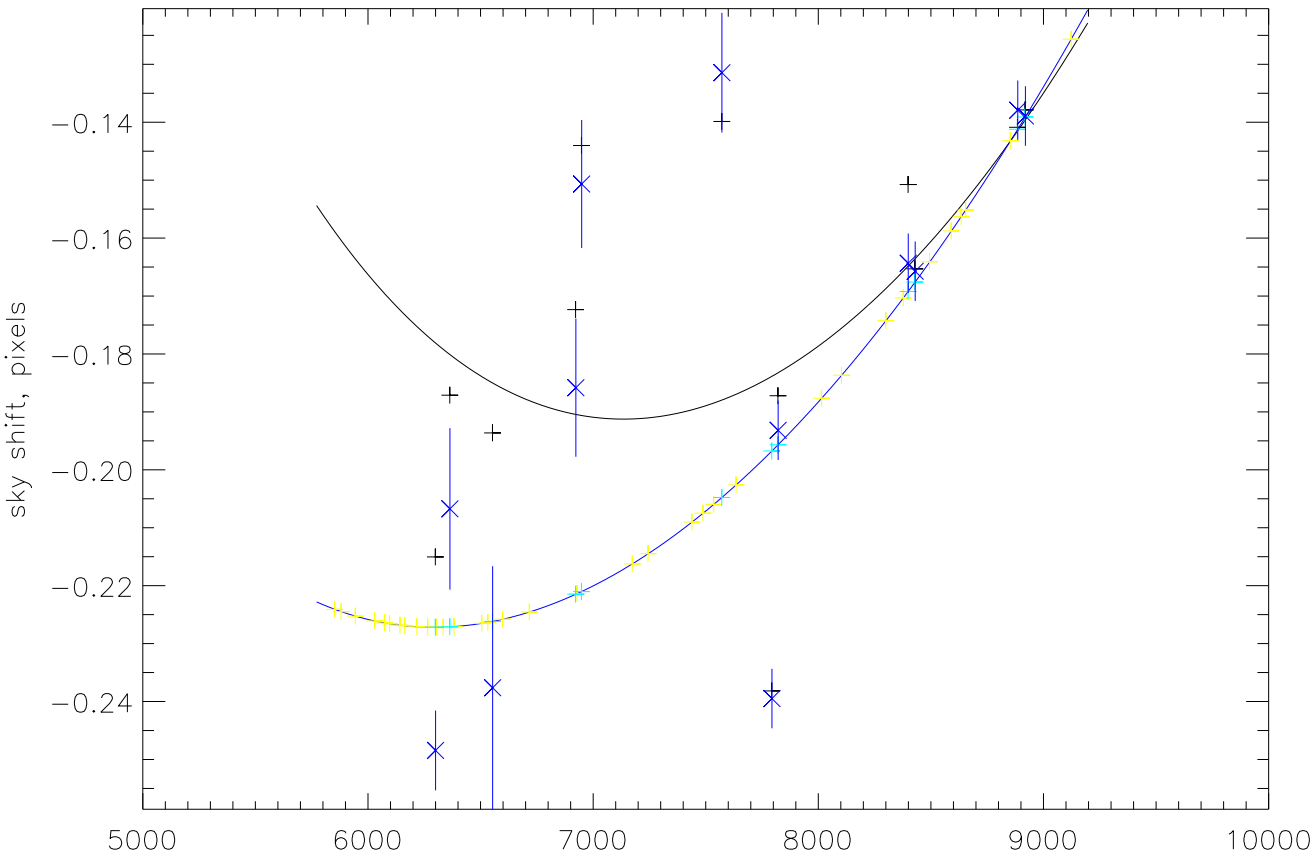

8399.1600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

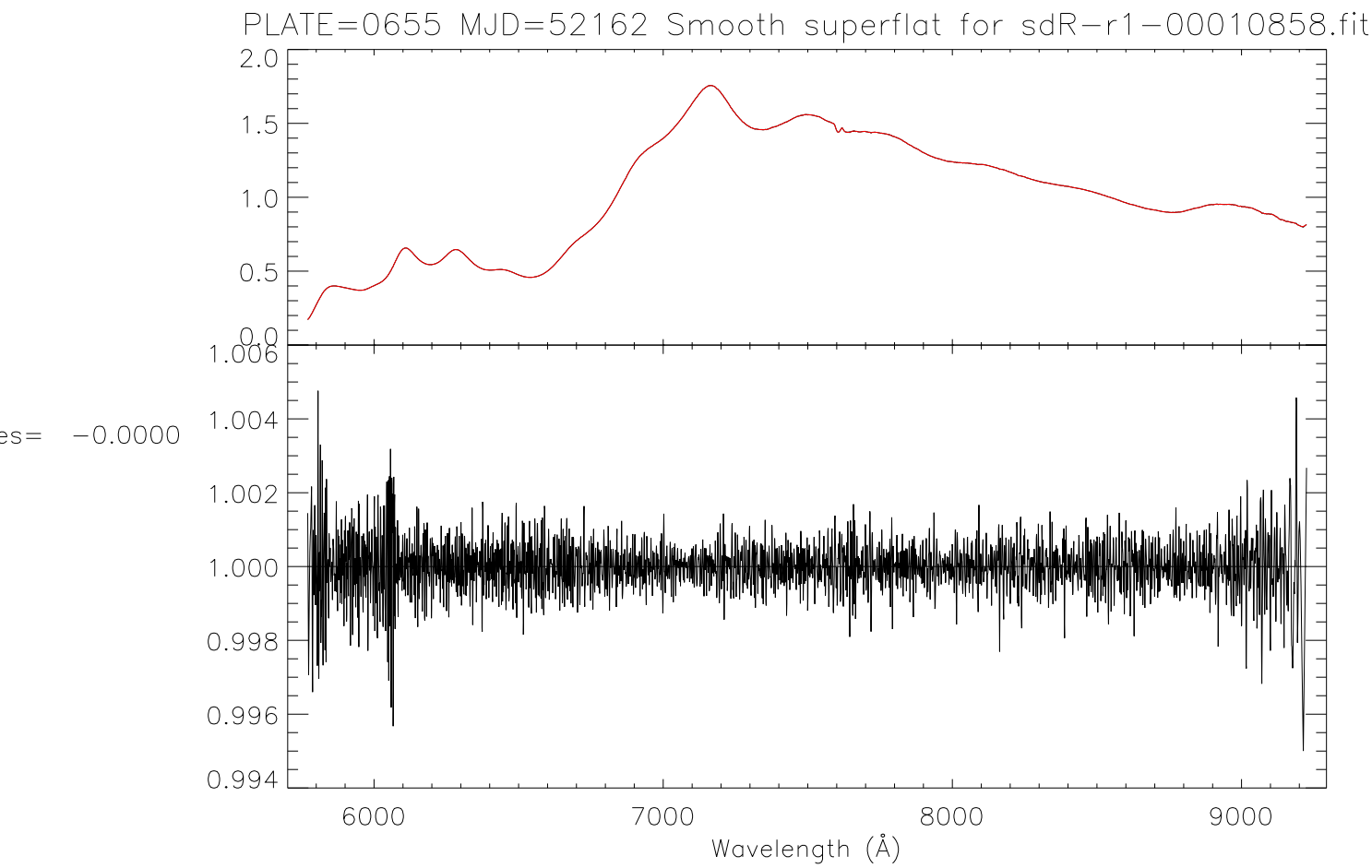

8430.1700
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

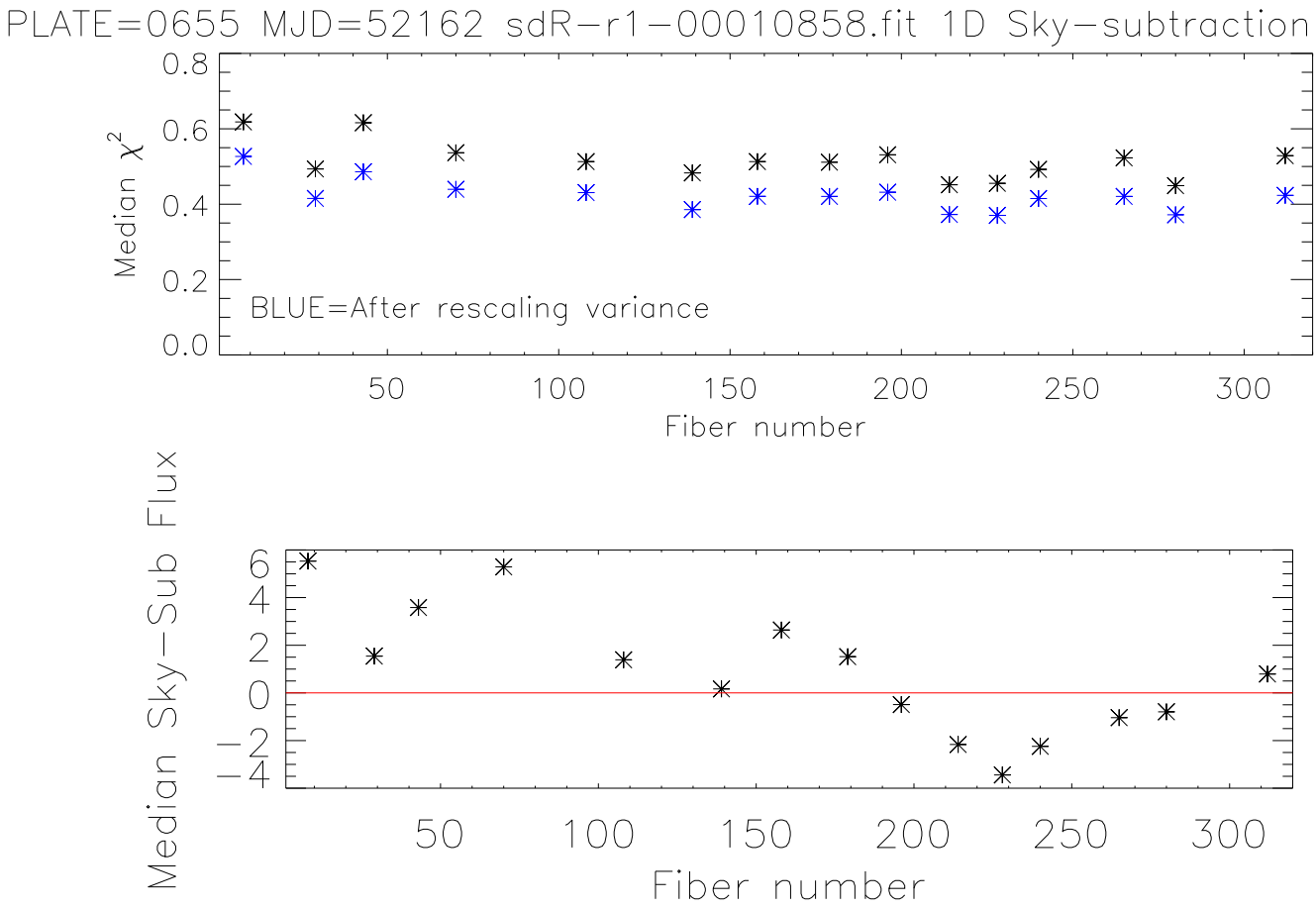

8885.8300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


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

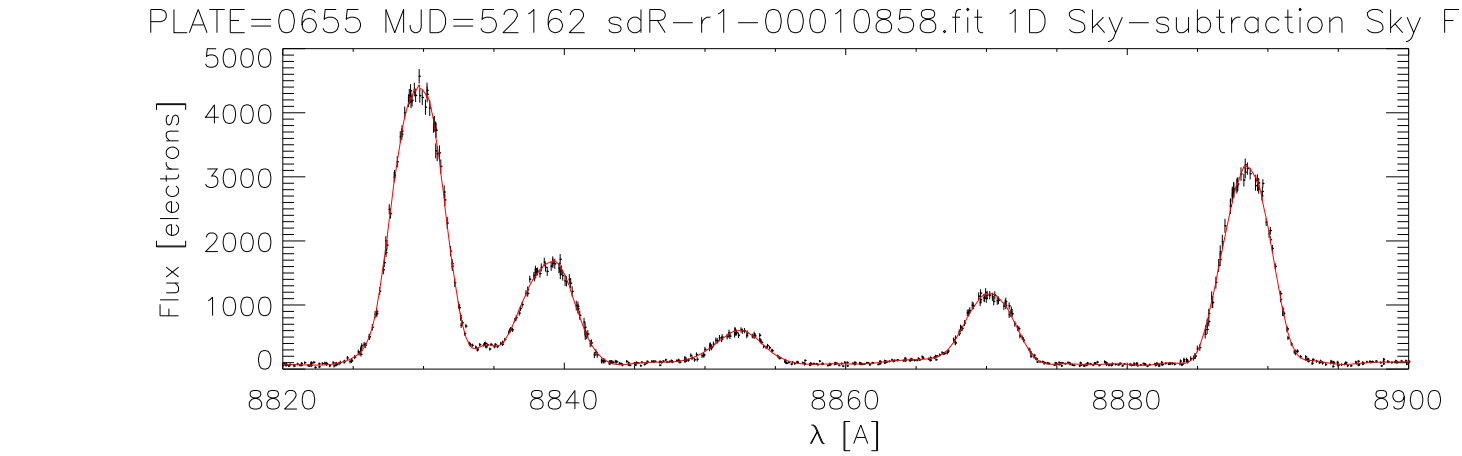

6300.3040
6363.7760
6553.6100
6923.2100
6949.0300
7571.7500
7794.1200
7821.5100
8399.1600
8430.1700
8885.8300
8919.6100
meas − pred, pix
mfib1 15
mfib2 16
stdev 0.046
extrd 0.25
stdev 0.028
extrd 0.21
stdev 0.044
extrd 0.24
stdev 0.026
extrd 0.49
stdev 0.034
extrd 0.15
stdev 0.030
extrd 0.13
stdev 0.022
extrd 0.24
stdev 0.020
extrd 0.49
stdev 0.020
extrd 0.46
stdev 0.017
extrd 0.17
stdev 0.018
extrd 0.14
stdev 0.023
extrd 0.44

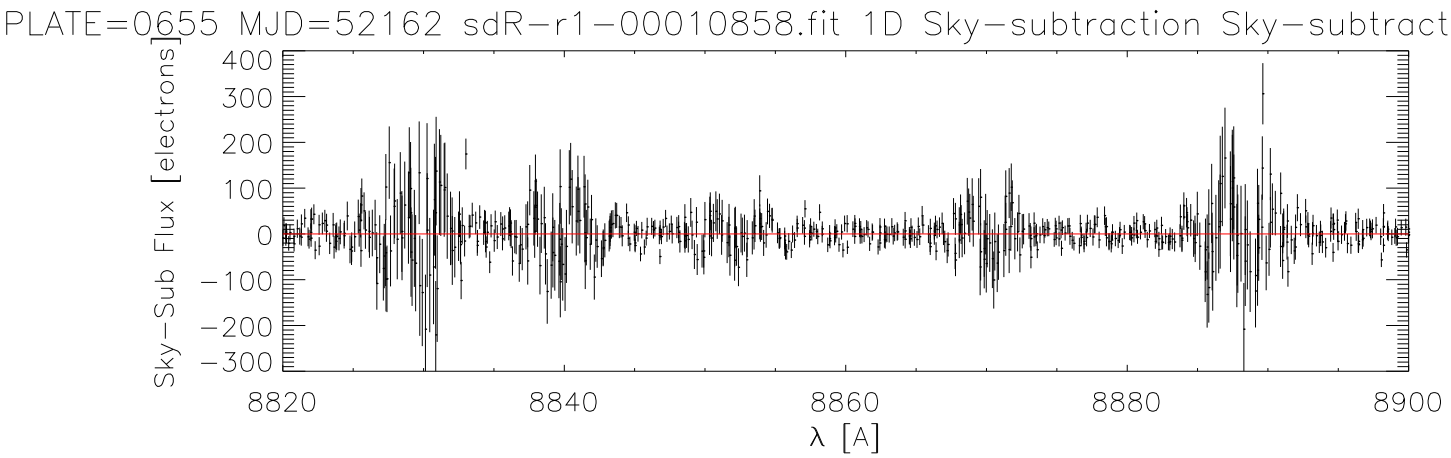

sky shift, pixels
−0.14
−0.16
−0.18
−0.20
−0.22
−0.24
5000
6000
7000
8000
9000
10000

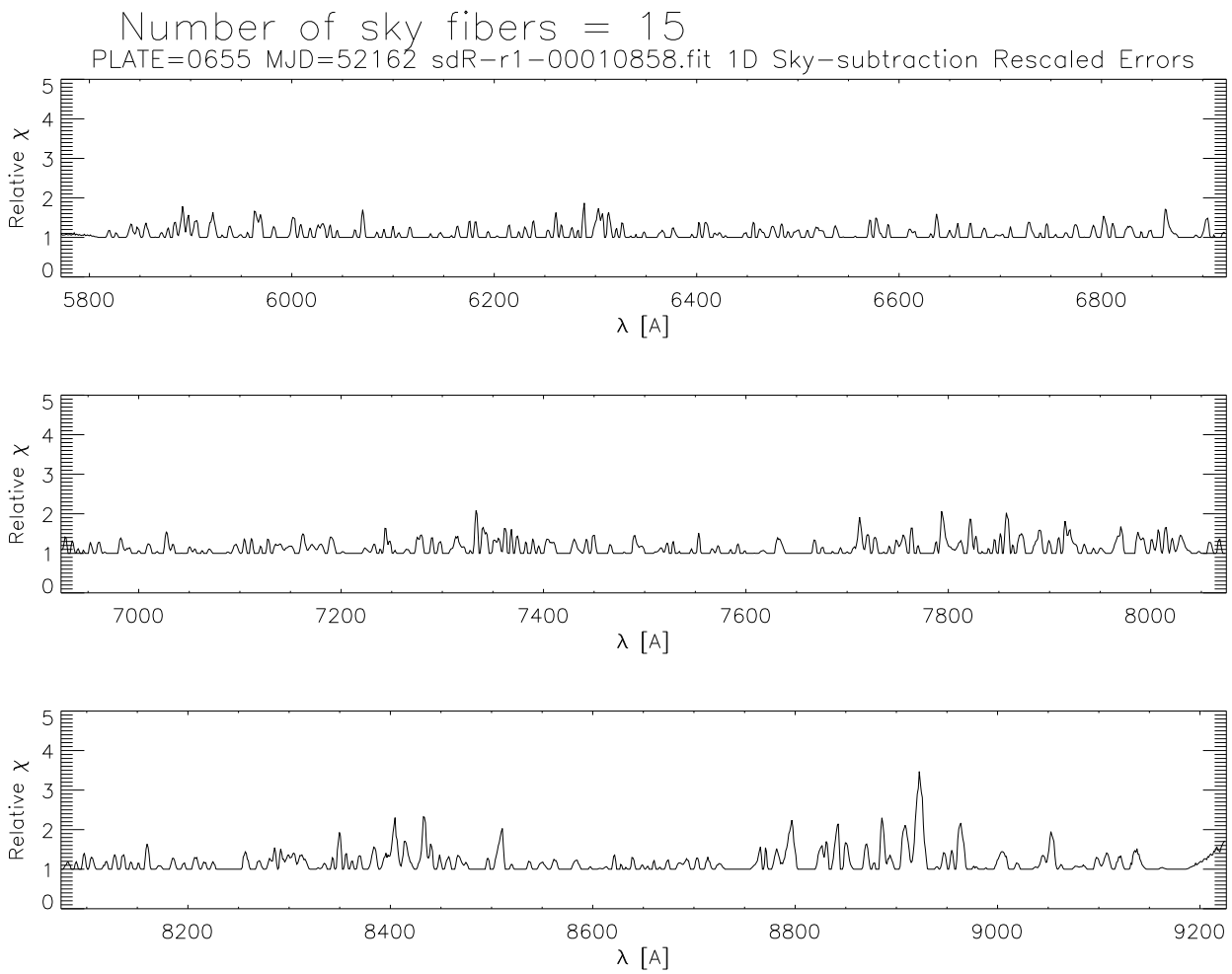

PLATE=0655 MJD=52162 Smooth superflat for sdR−r1−00010858.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

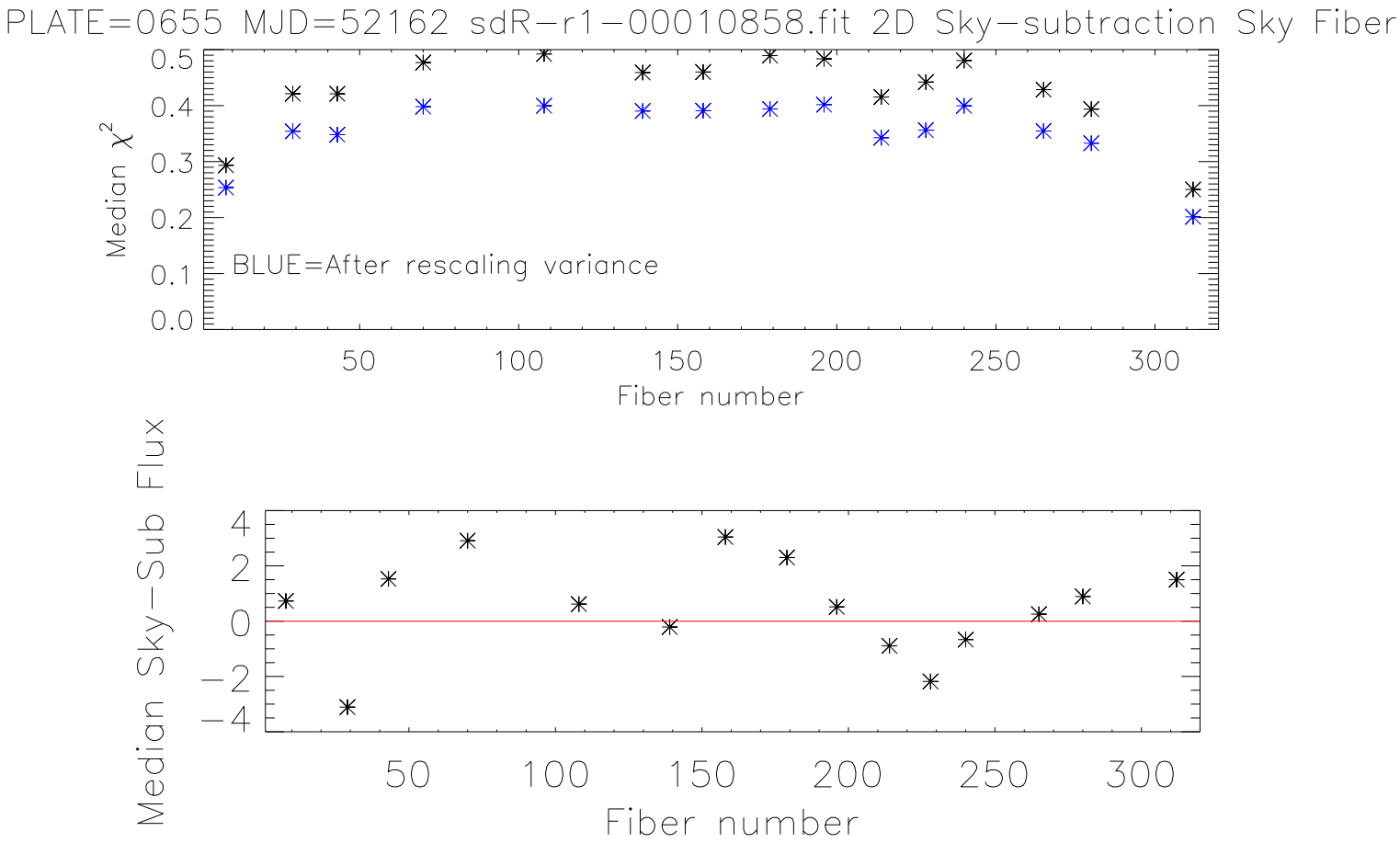

PLATE=0655 MJD=52162 sdR-r1-00010858.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

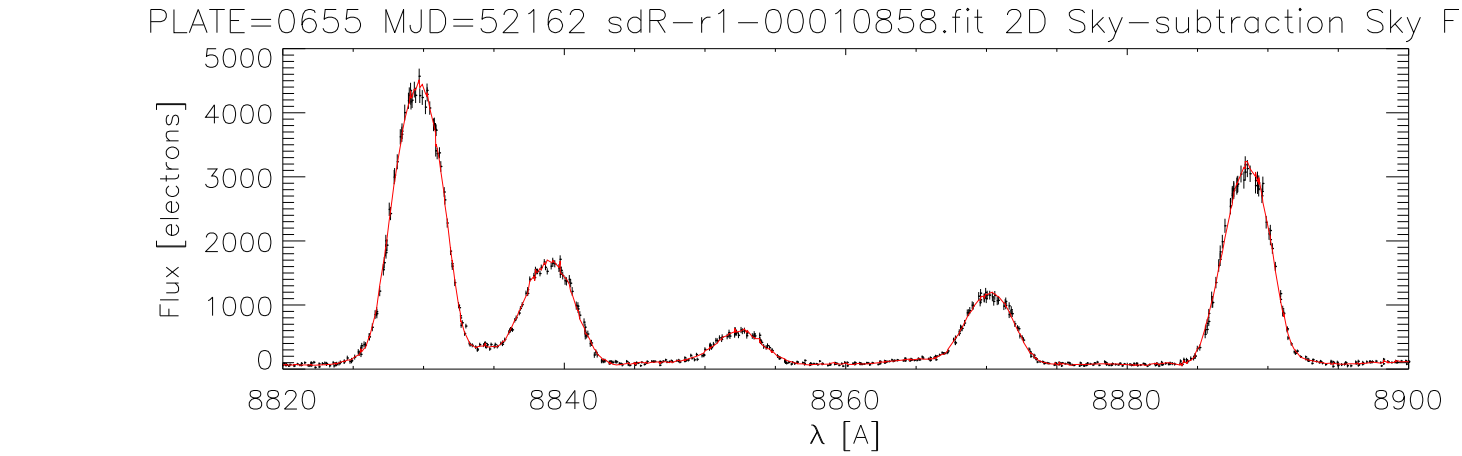
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

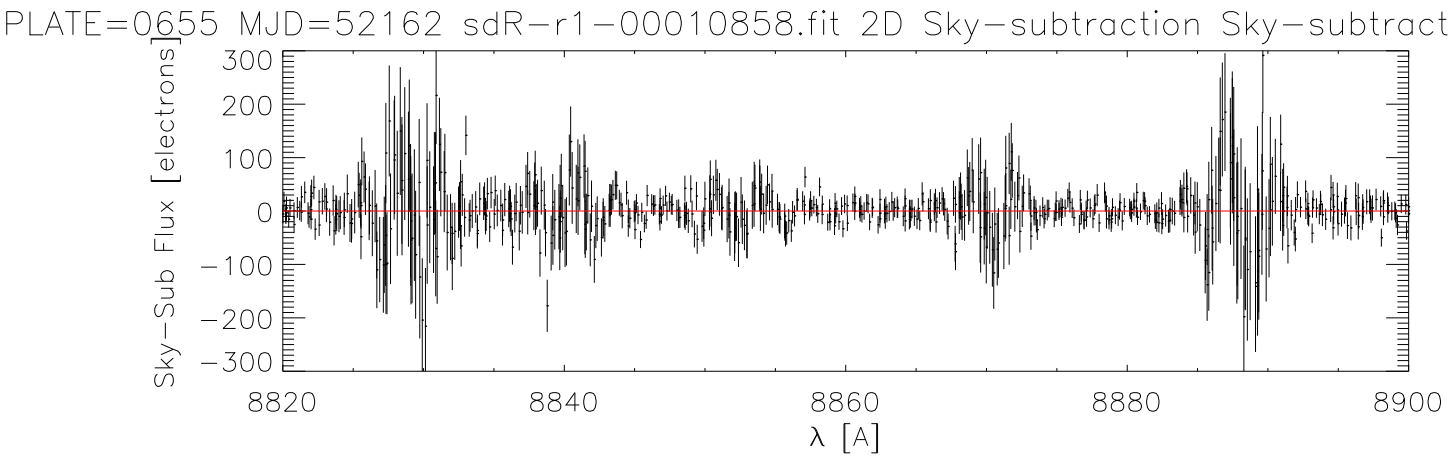

PLATE=0655 MJD=52162 sdR-r1-00010858.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

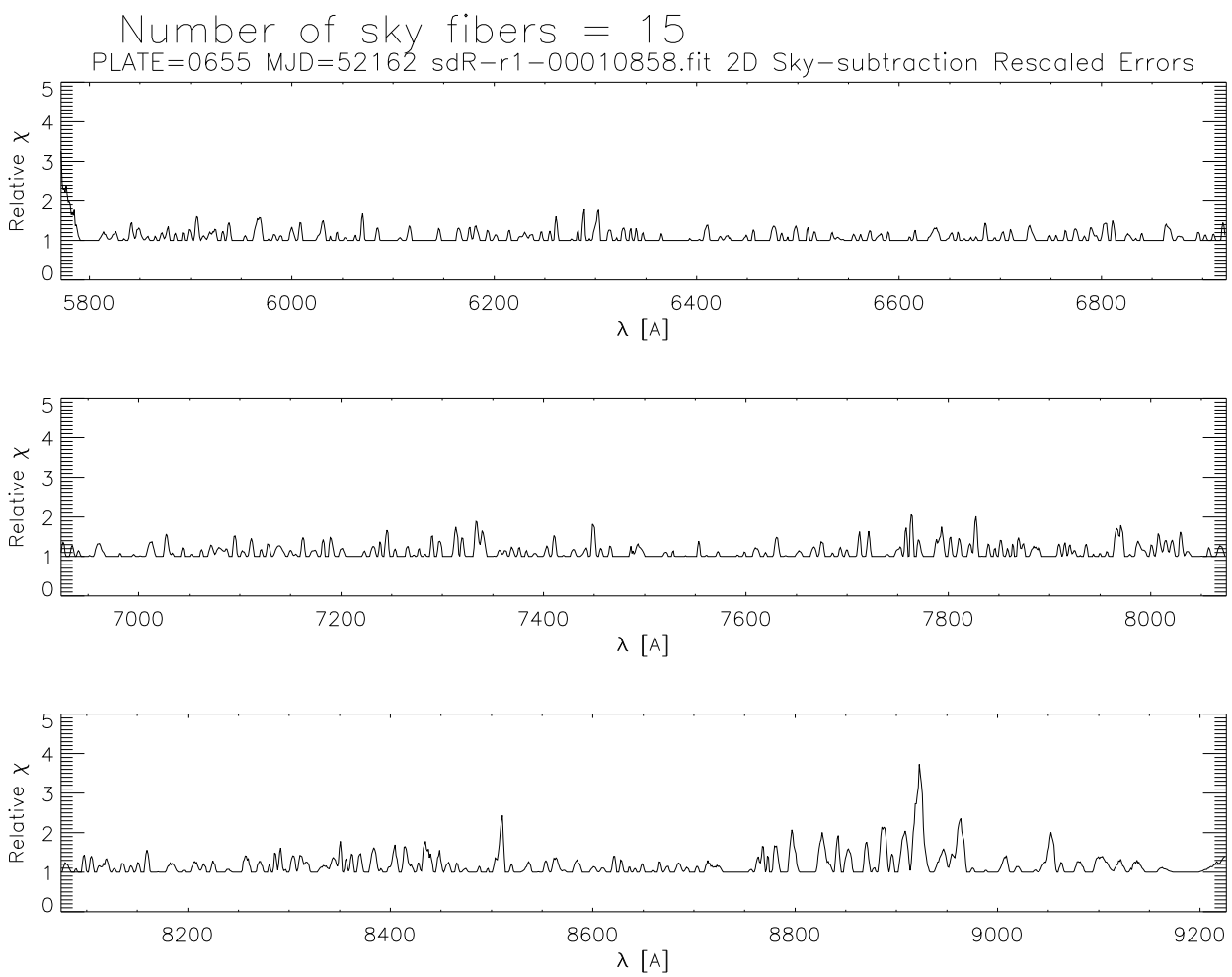

PLATE=0655 MJD=52162 sdR-r1-00010858.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

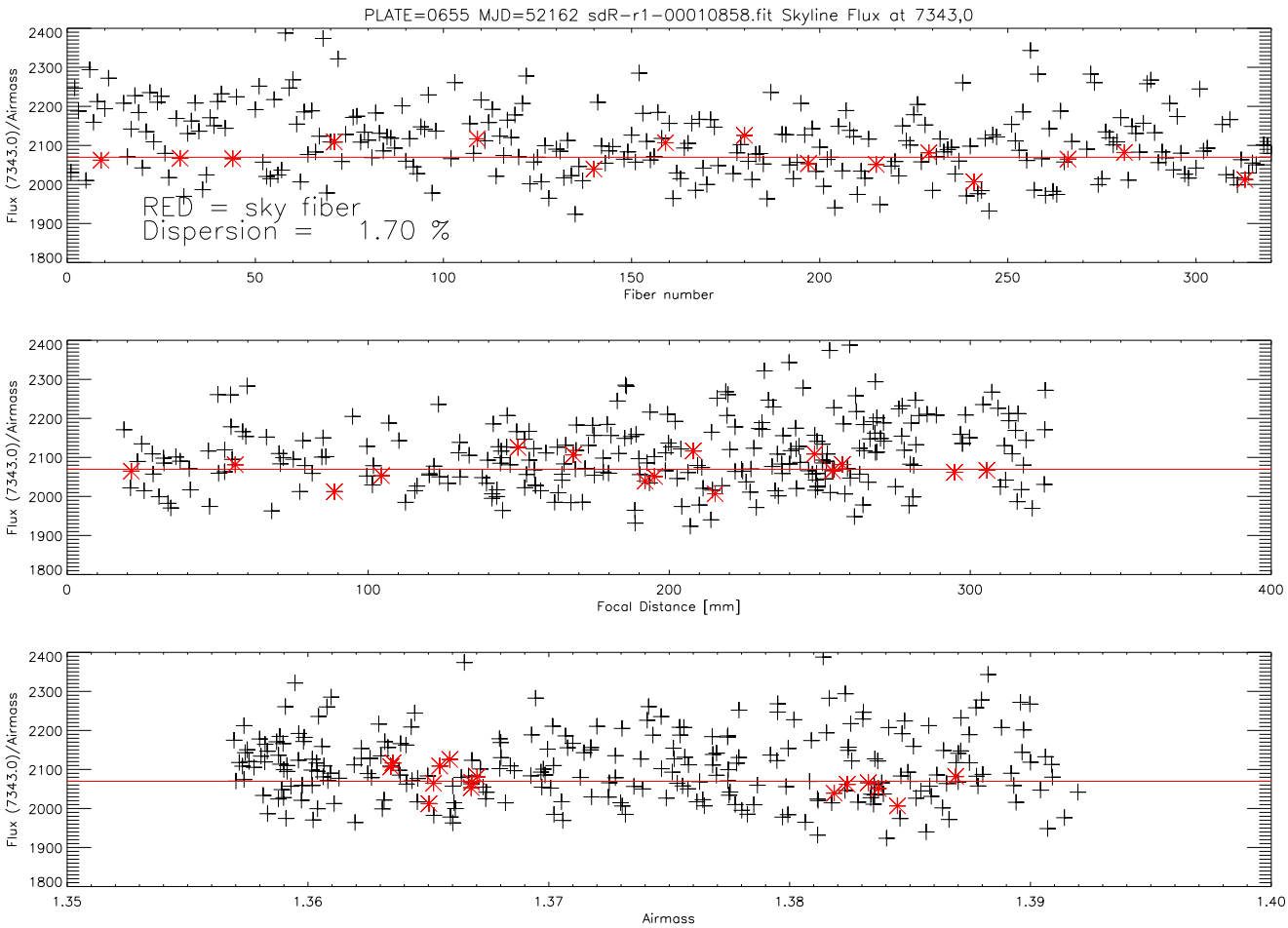

Number of sky fibers = 15
PLATE=0655 MJD=52162 sdR-r1-00010858.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

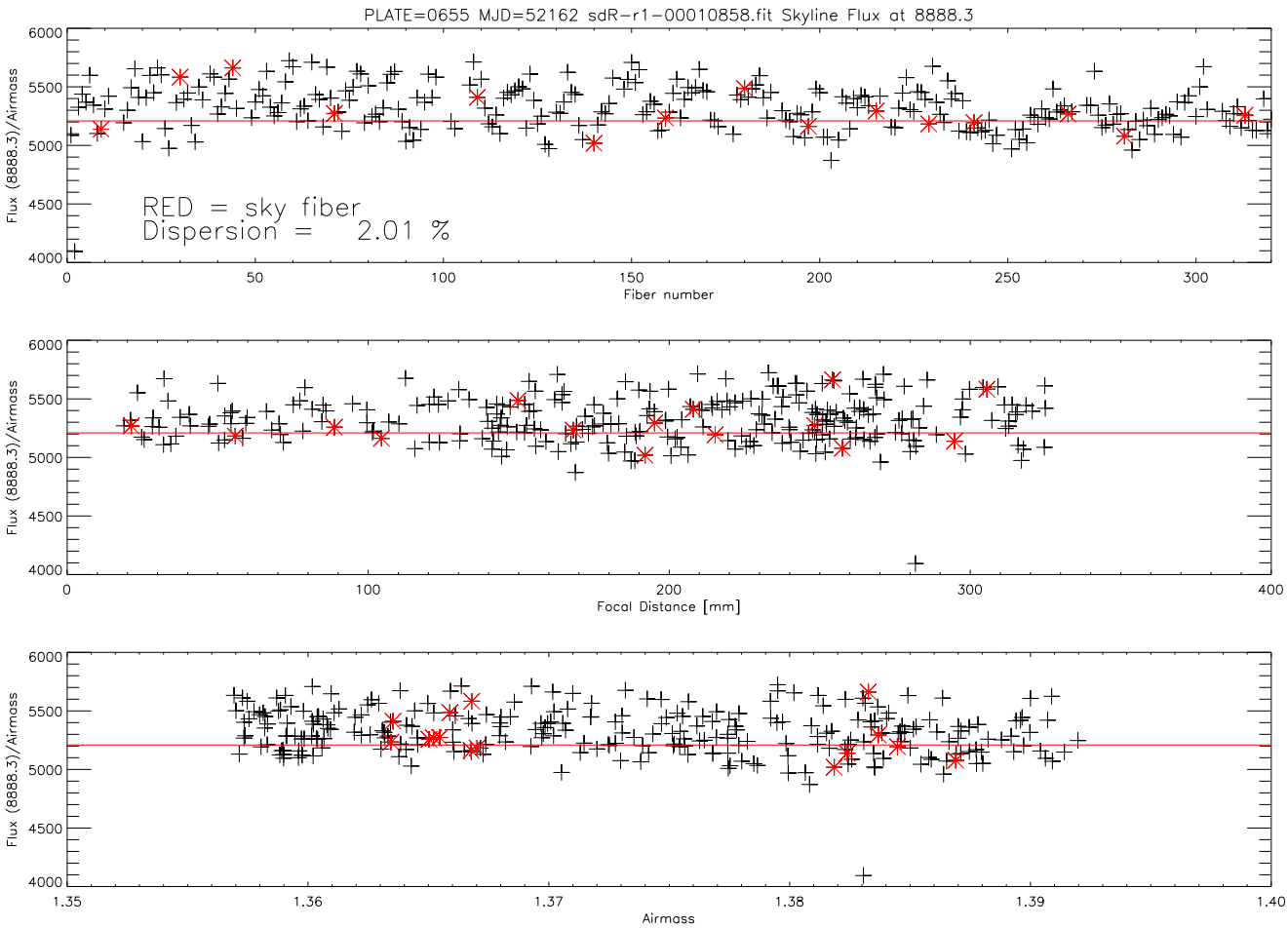

PLATE=0655 MJD=52162 sdR-r1-00010858.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
50
100
150
200
250
300
Fiber number

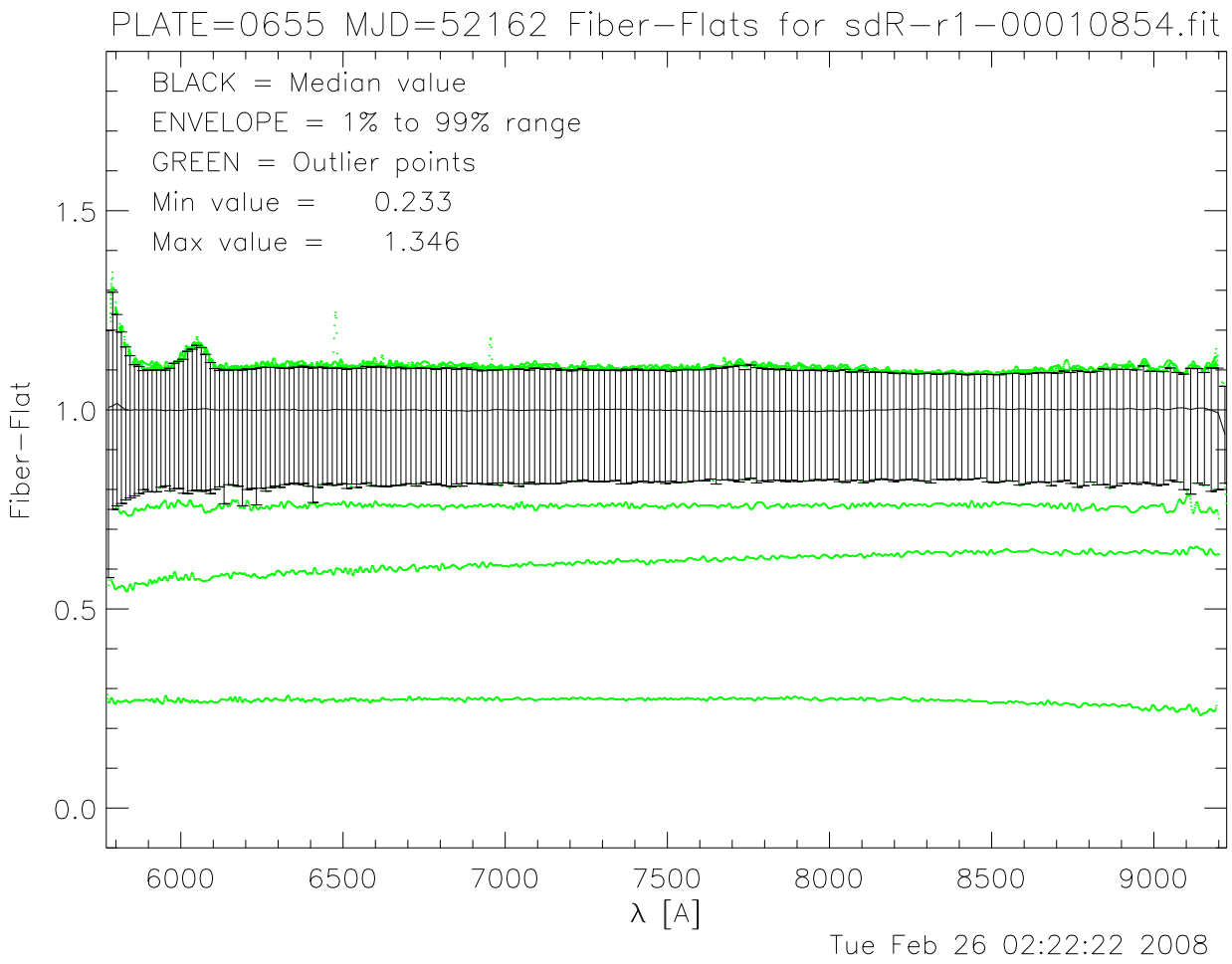

PLATE=0655 MJD=52162 sdR-r1-00010858.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

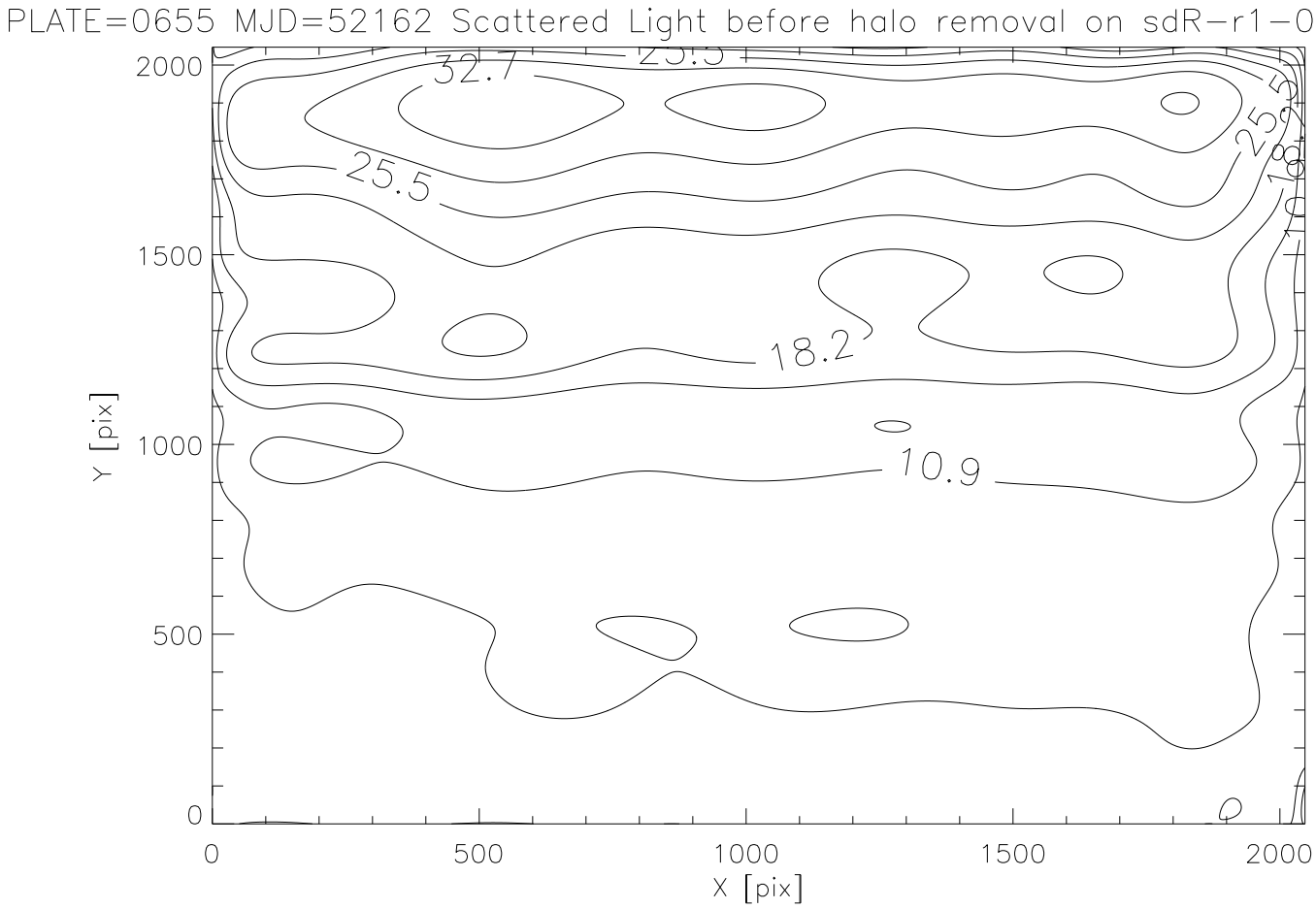

PLATE=0655 MJD=52162 sdR-r1-00010858.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

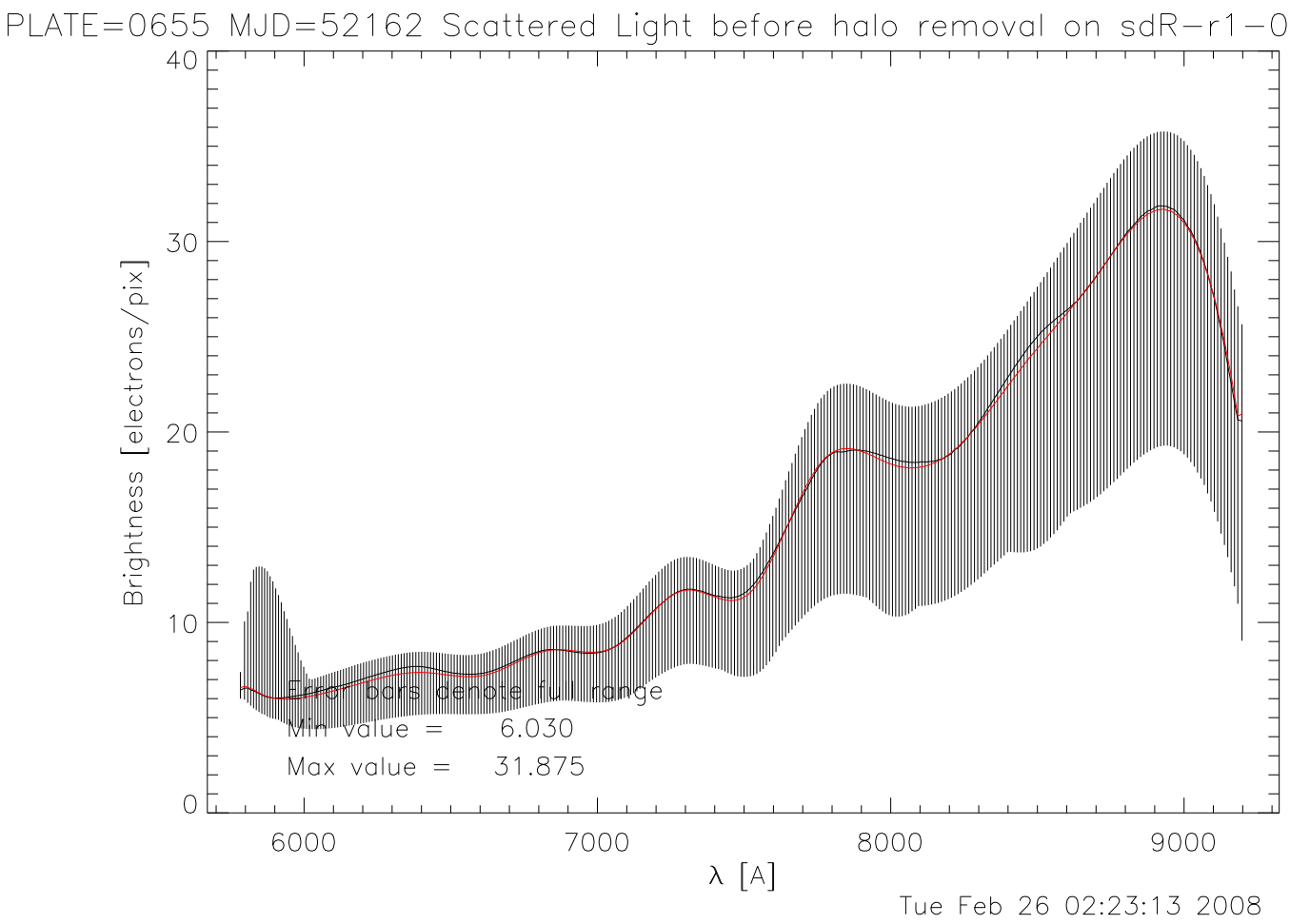

Number of sky fibers = 15
PLATE=0655 MJD=52162 sdR-r1-00010858.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

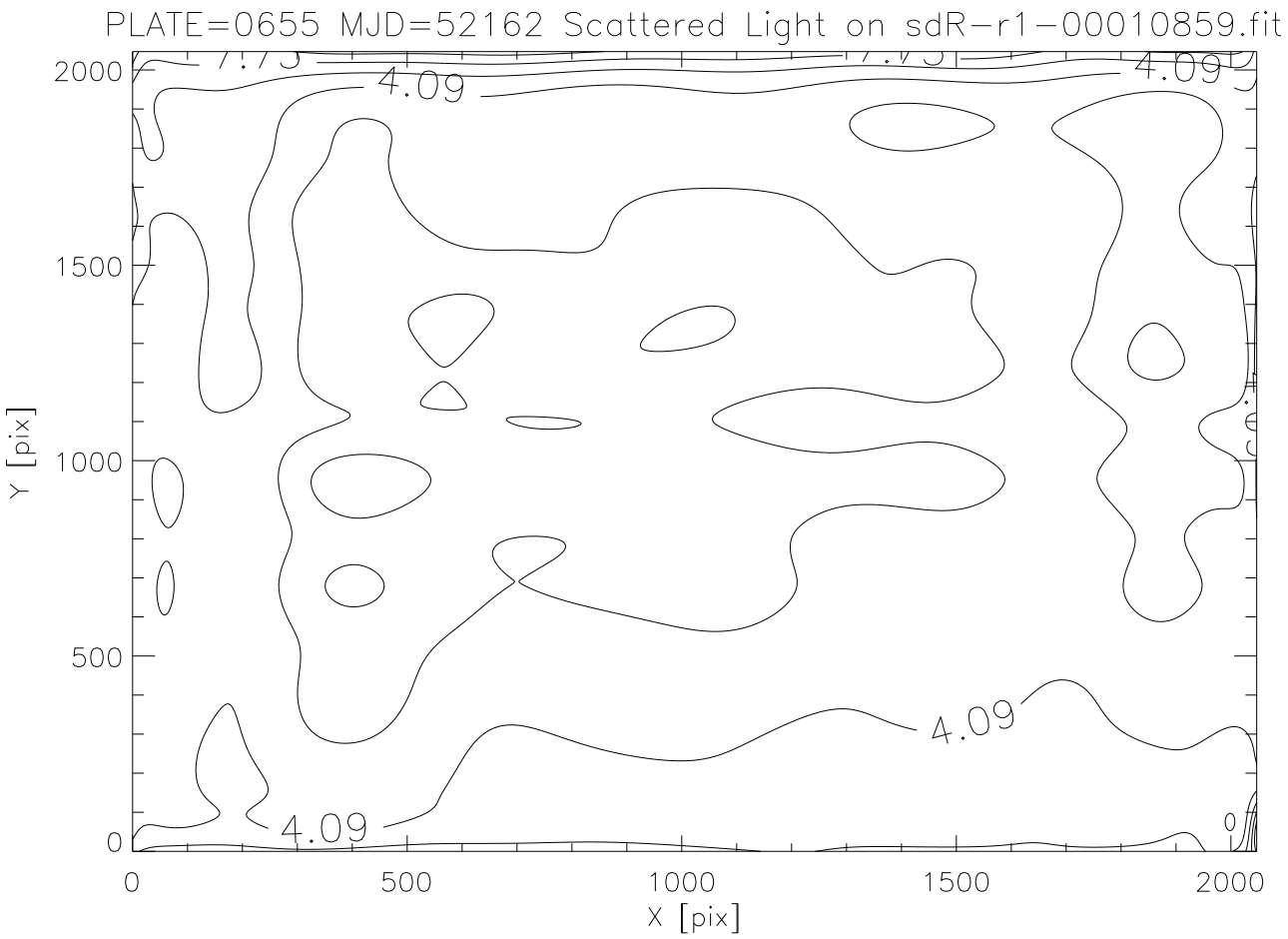

PLATE=0655 MJD=52162 sdR-r1-00010858.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 1.70 %
Fiber number
Focal Distance [mm]
Airmass

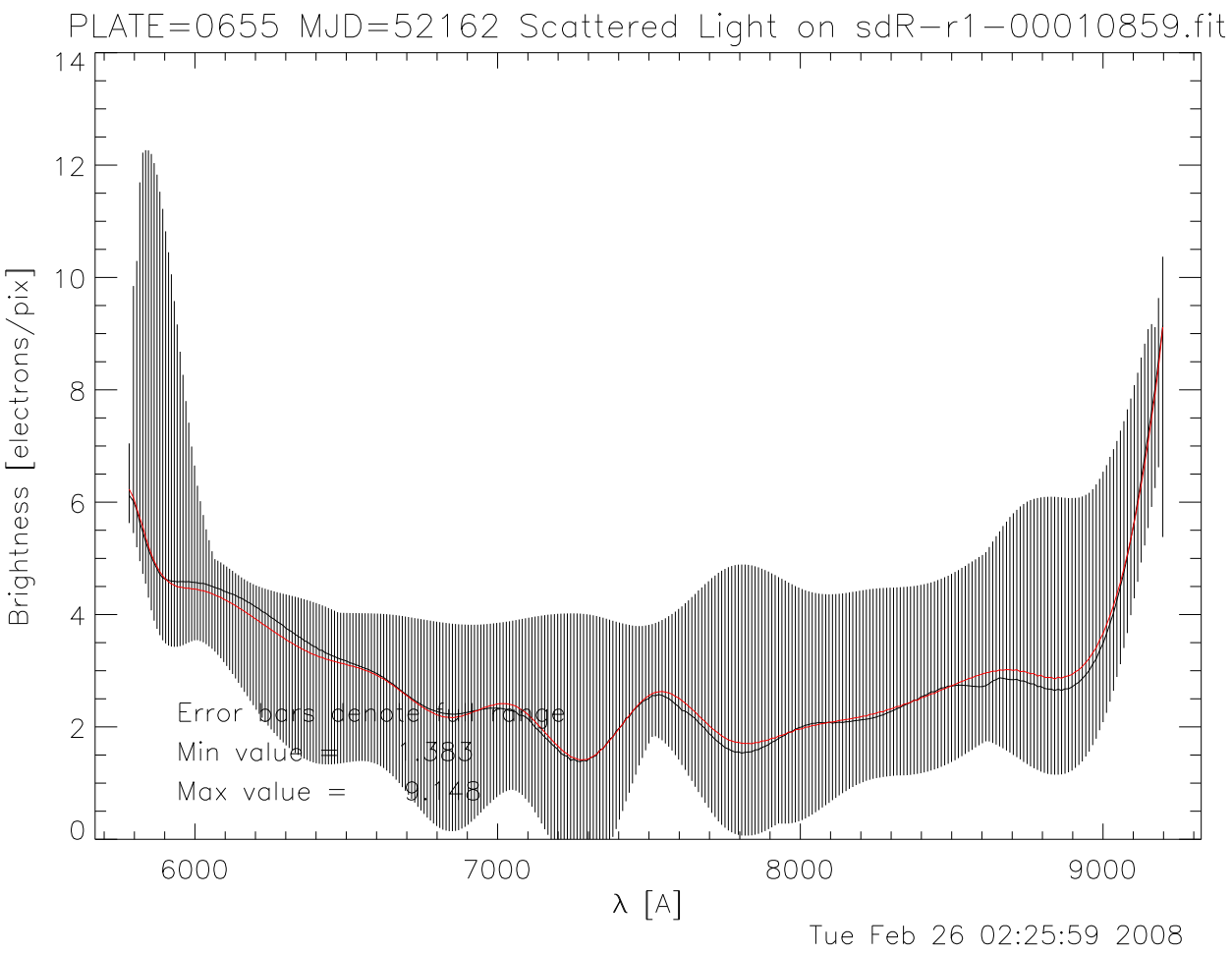

PLATE=0655 MJD=52162 sdR-r1-00010858.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.01 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

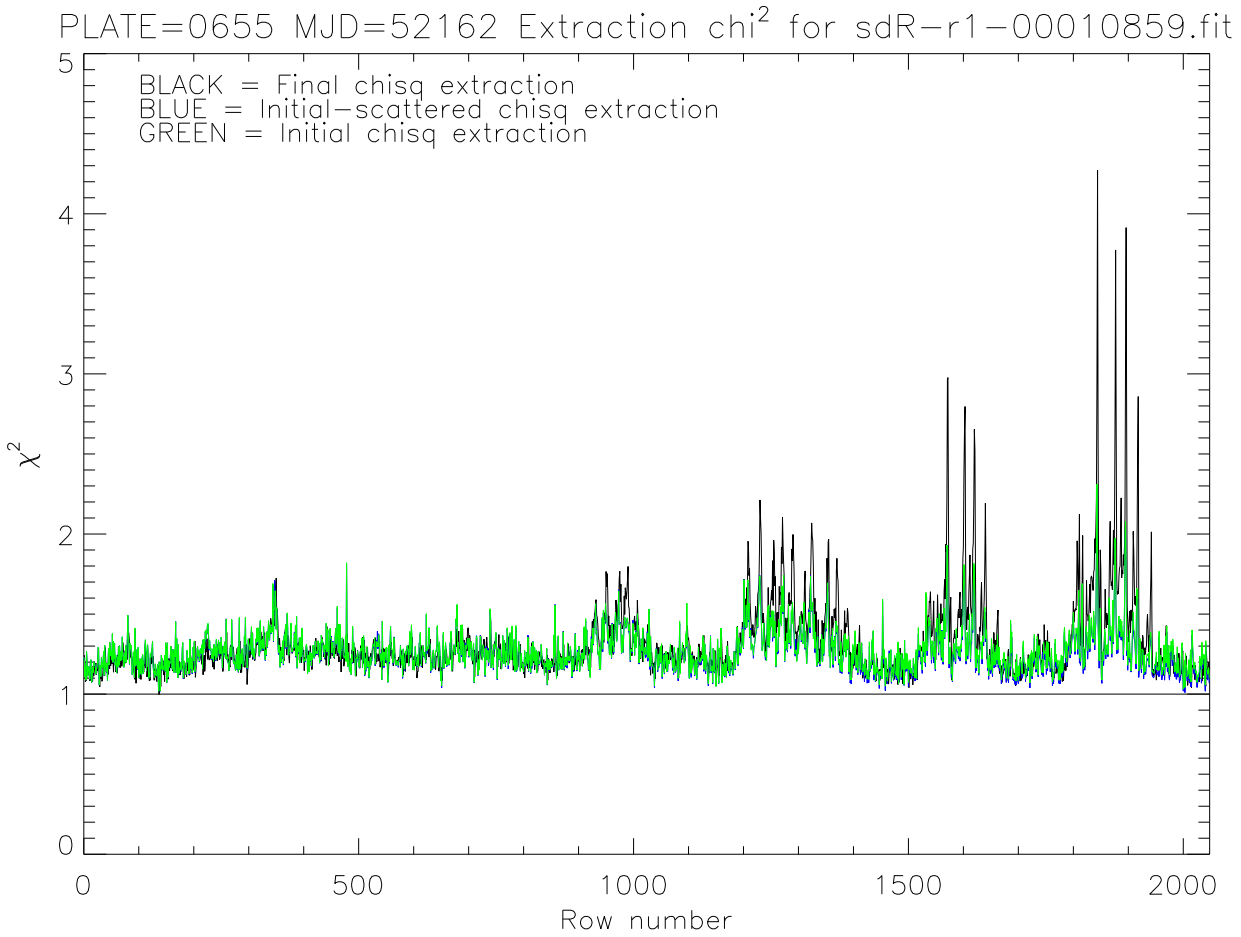

PLATE=0655 MJD=52162 Fiber−Flats for sdR−r1−00010854.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.233
Max value = 1.346
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Tue Feb 26 02:22:22 2008

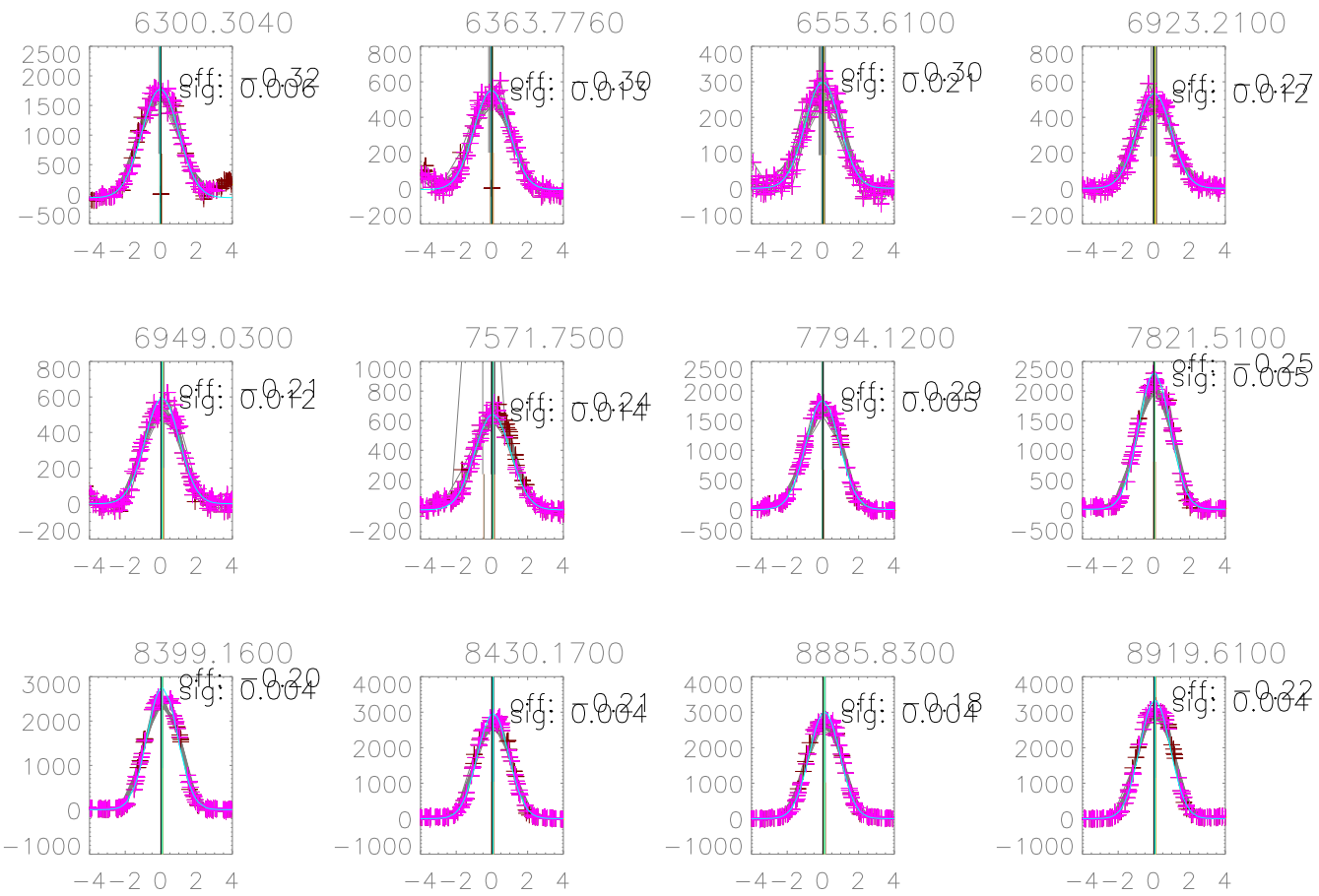

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-r1-00010859.fi
32.7
25.5
18.2
10.9
0
Y [pix]
X [pix]
0
500
1000
1500
2000

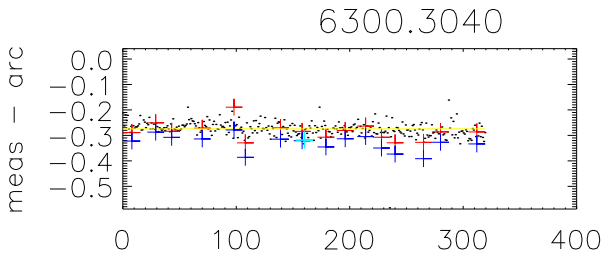

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-r1-00010859.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.030
Max value = 31.875
Tue Feb 26 02:23:13 2008

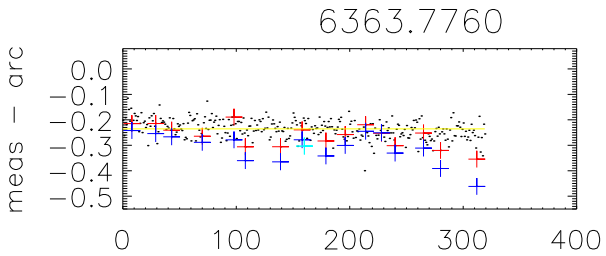

PLATE=0655 MJD=52162 Scattered Light on sdR-r1-00010859.fit
4.09
4.09
4.09
4.09
0
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

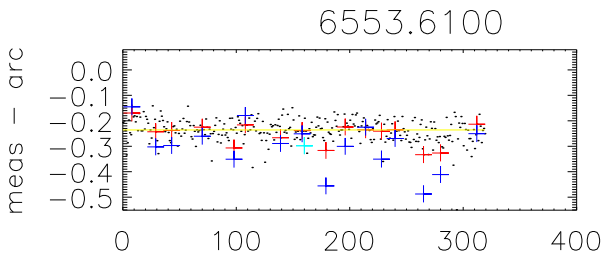

PLATE=0655 MJD=52162 Scattered Light on sdR-r1-00010859.fit
Brightness [electrons/pix]
λ [A]
Error bars denote 1-σ range
Min value = -1.3883
Max value = 9.148
Tue Feb 26 02:25:59 2008

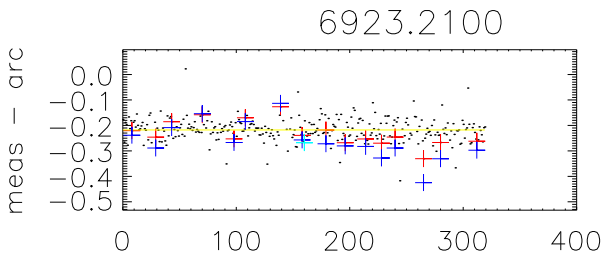

PLATE=0655 MJD=52162 Extraction chi^2 for sdR−r1−00010859.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

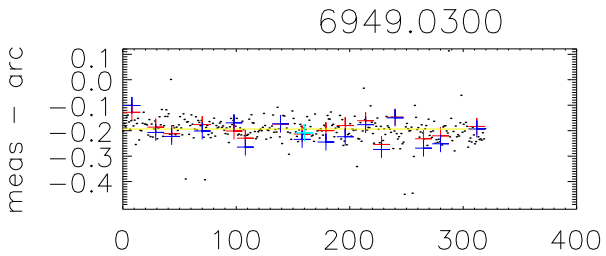

6300.3040
off: −0.32
sig: 0.006
6363.7760
off: −0.30
sig: 0.013
6553.6100
off: −0.30
sig: 0.021
6923.2100
off: −0.27
sig: 0.012
6949.0300
off: −0.21
sig: 0.012
7571.7500
off: −0.24
sig: 0.014
7794.1200
off: −0.29
sig: 0.005
7821.5100
off: −0.25
sig: 0.005
8399.1600
off: −0.20
sig: 0.004
8430.1700
off: −0.21
sig: 0.004
8885.8300
off: −0.18
sig: 0.004
8919.6100
off: −0.22
sig: 0.004

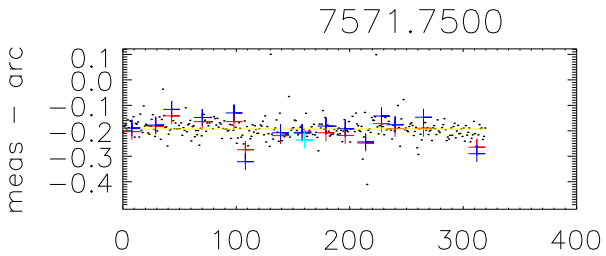

6300.3040
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

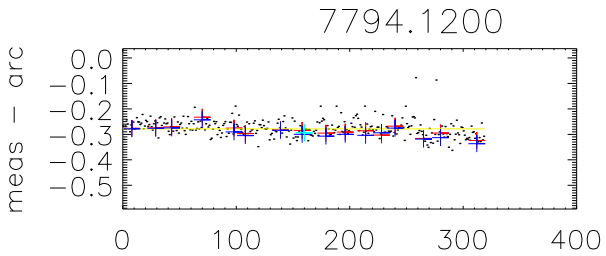

6363.7760
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

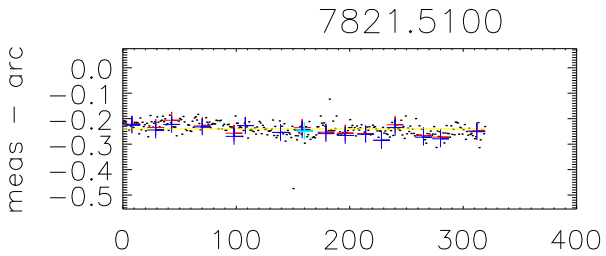

6553.6100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

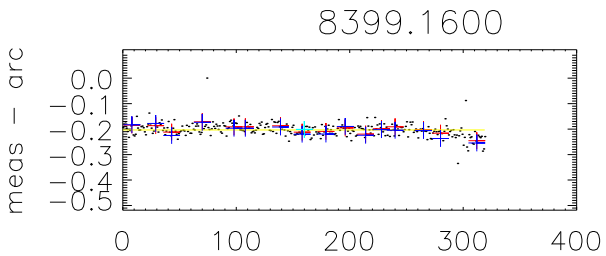

6923.2100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

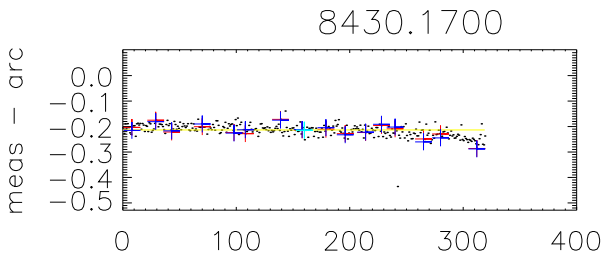

6949.0300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

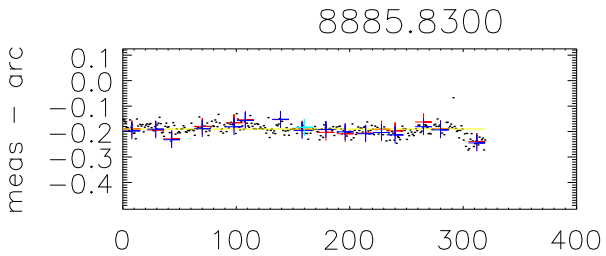

7571.7500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

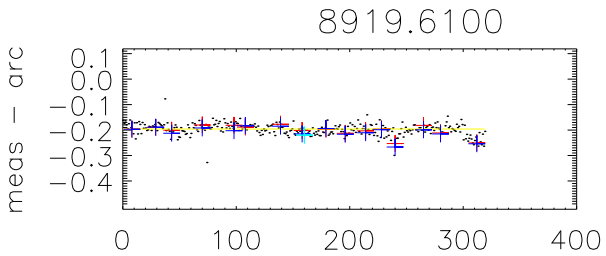

7794.1200
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

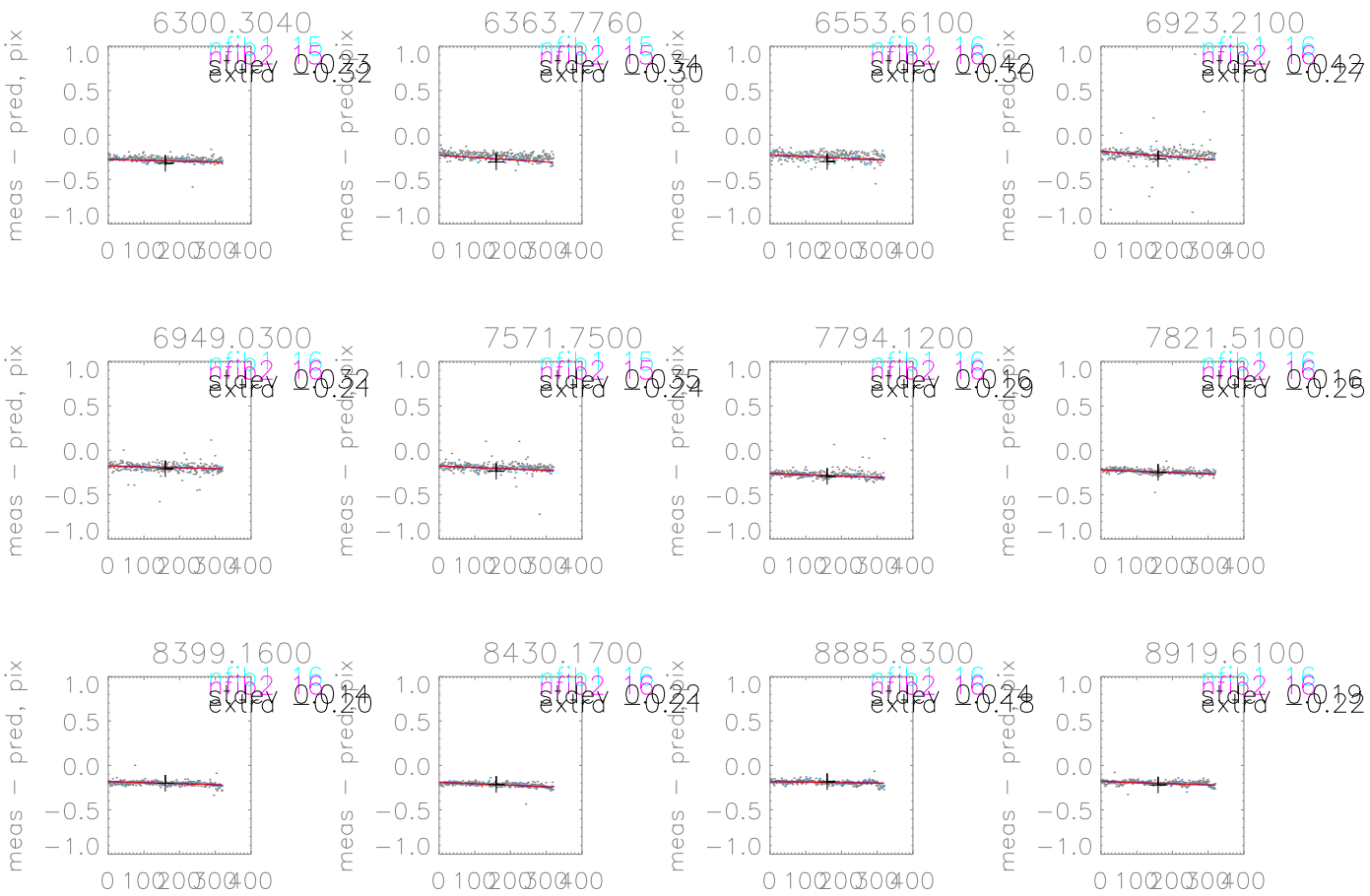

7821.5100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

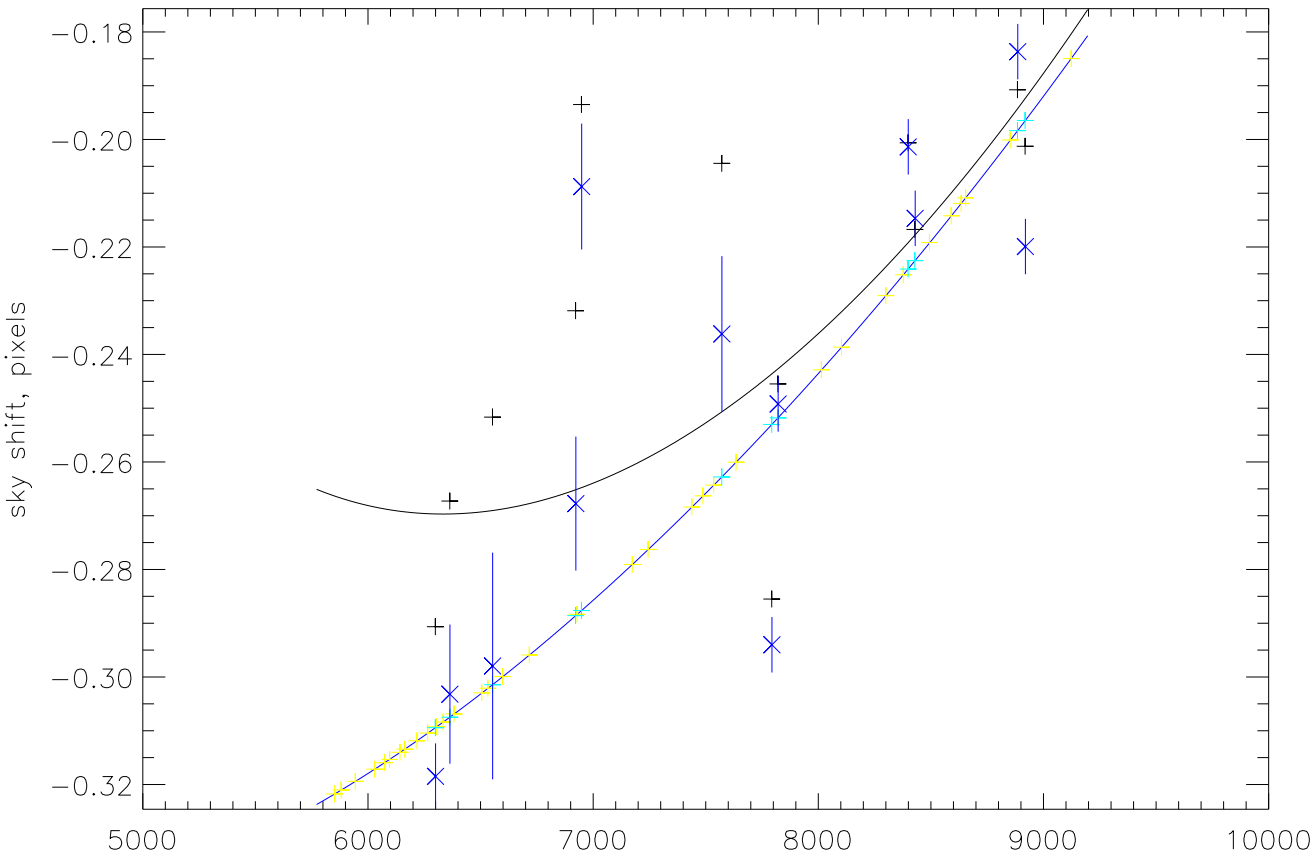

8399.1600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

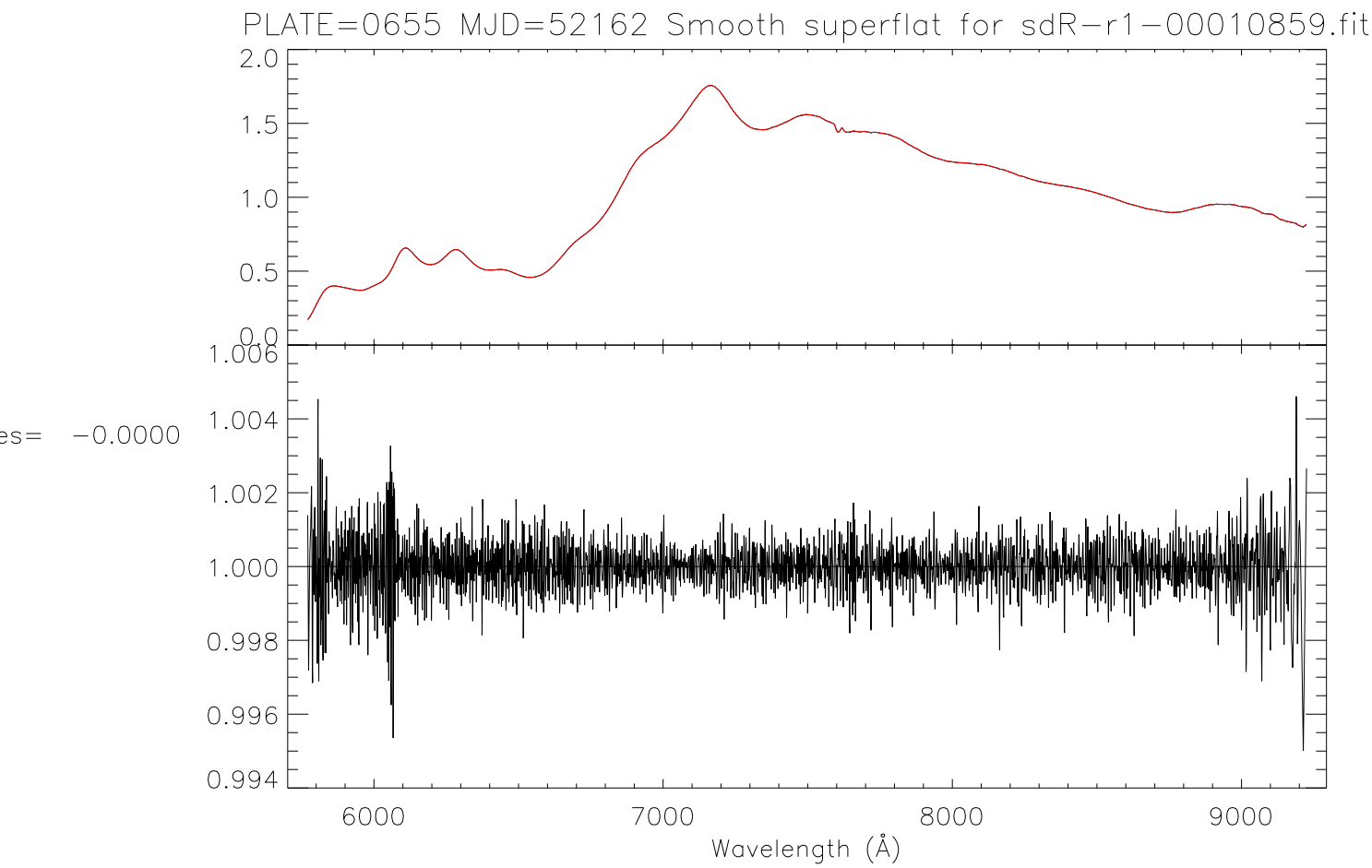

8430.1700
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400


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

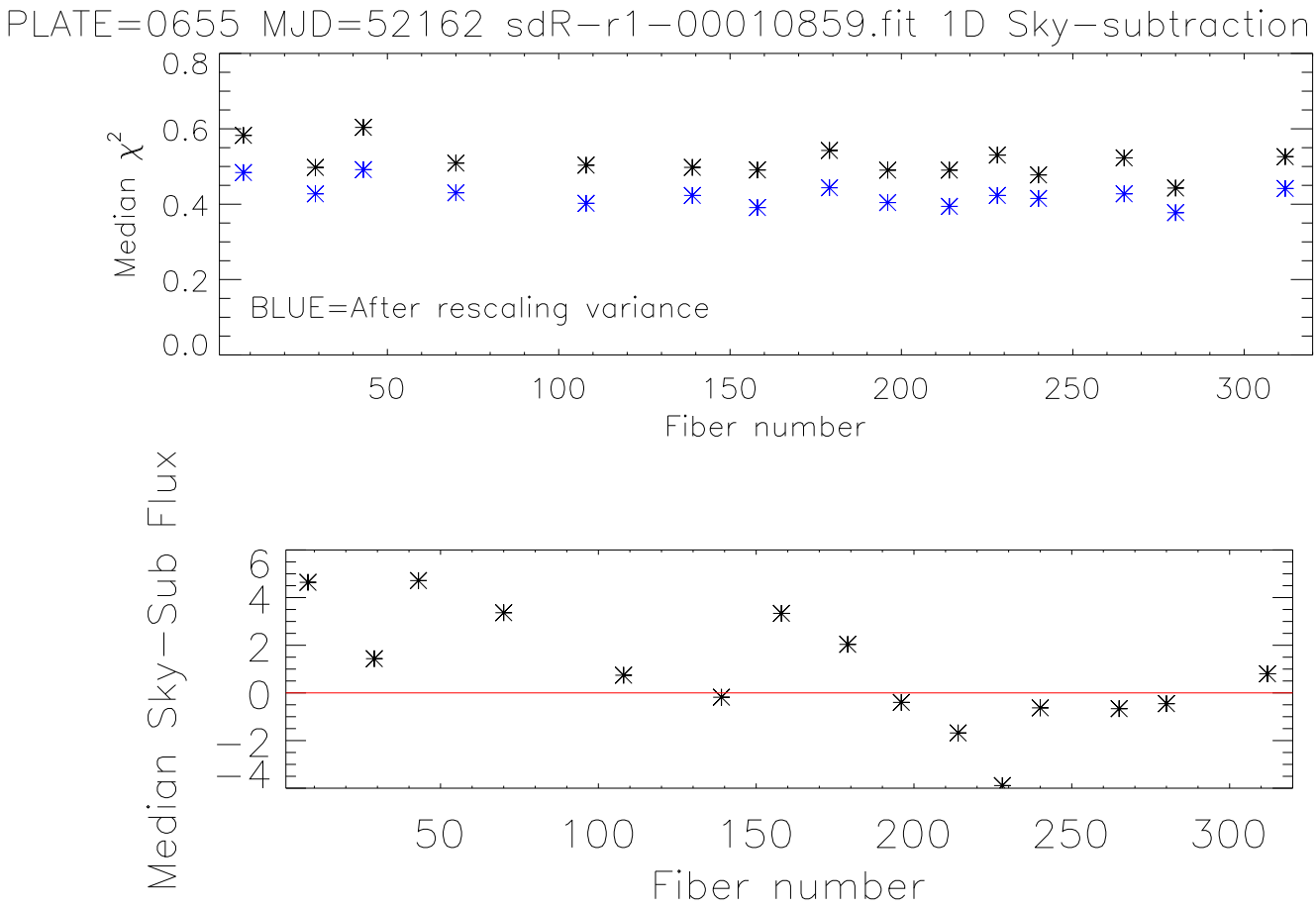

8919.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


6300.3040
6363.7760
6553.6100
6923.2100
6949.0300
7571.7500
7794.1200
7821.5100
8399.1600
8430.1700
8885.8300
8919.6100
meas − pred, pix
mfib1 15
mfib2 16
stdev 0.23
extrd 0.32
stdev 0.34
extrd 0.30
stdev 0.42
extrd 0.30
stdev 0.42
extrd 0.27
stdev 0.32
extrd 0.24
stdev 0.35
extrd 0.24
stdev 0.46
extrd 0.29
stdev 0.46
extrd 0.25
stdev 0.24
extrd 0.20
stdev 0.22
extrd 0.24
stdev 0.24
extrd 0.48
stdev 0.19
extrd 0.22

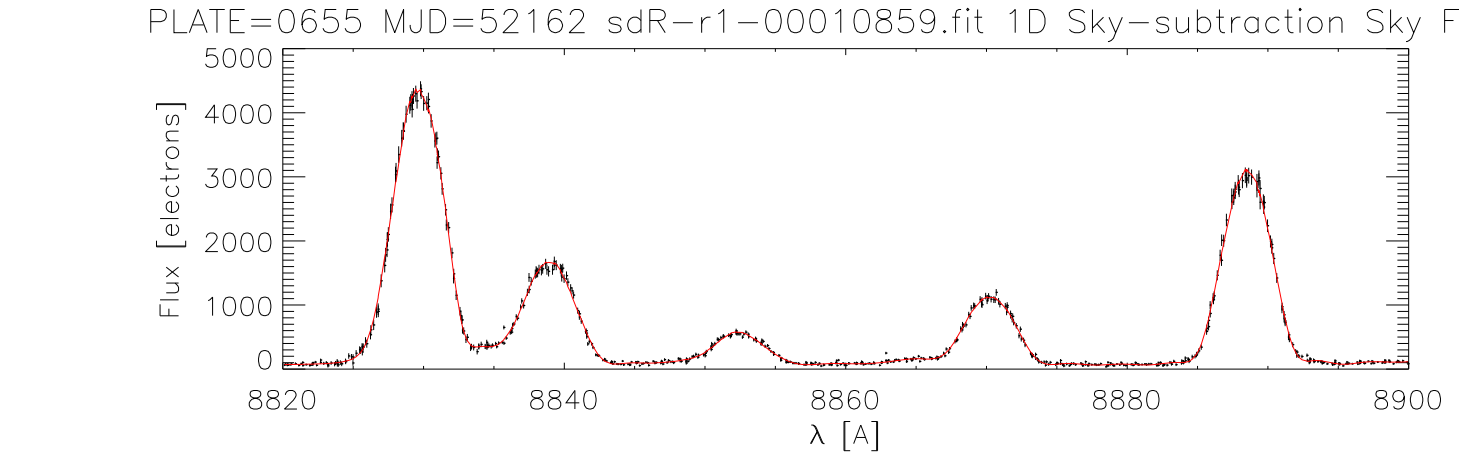

−0.18
−0.20
−0.22
−0.24
−0.26
−0.28
−0.30
−0.32
sky shift, pixels
5000
6000
7000
8000
9000
10000

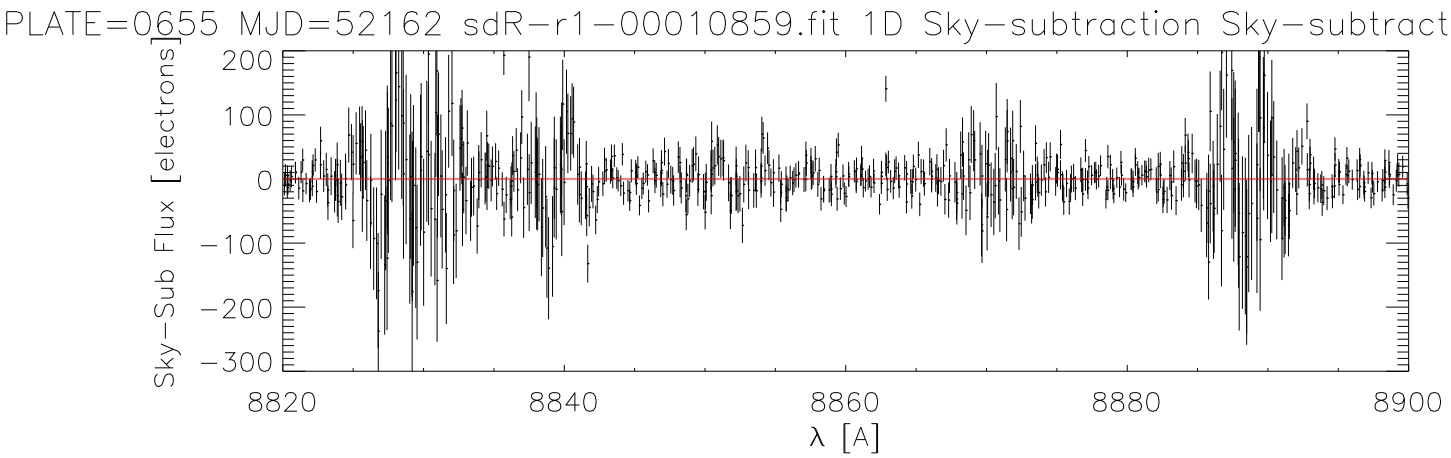

PLATE=0655 MJD=52162 Smooth superflat for sdR-r1-00010859.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
6000
7000
8000
9000
Wavelength (Å)

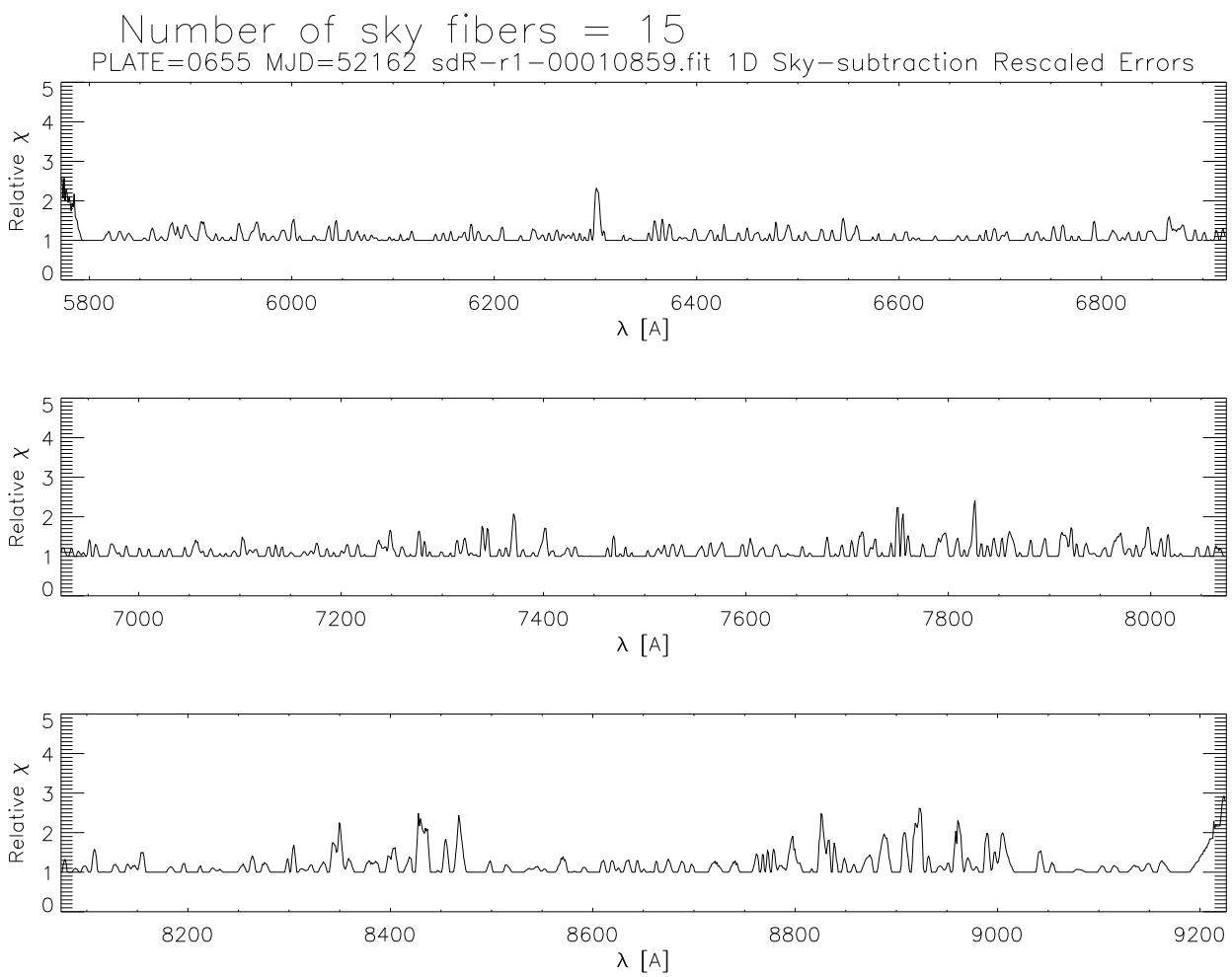
es= −0.0000

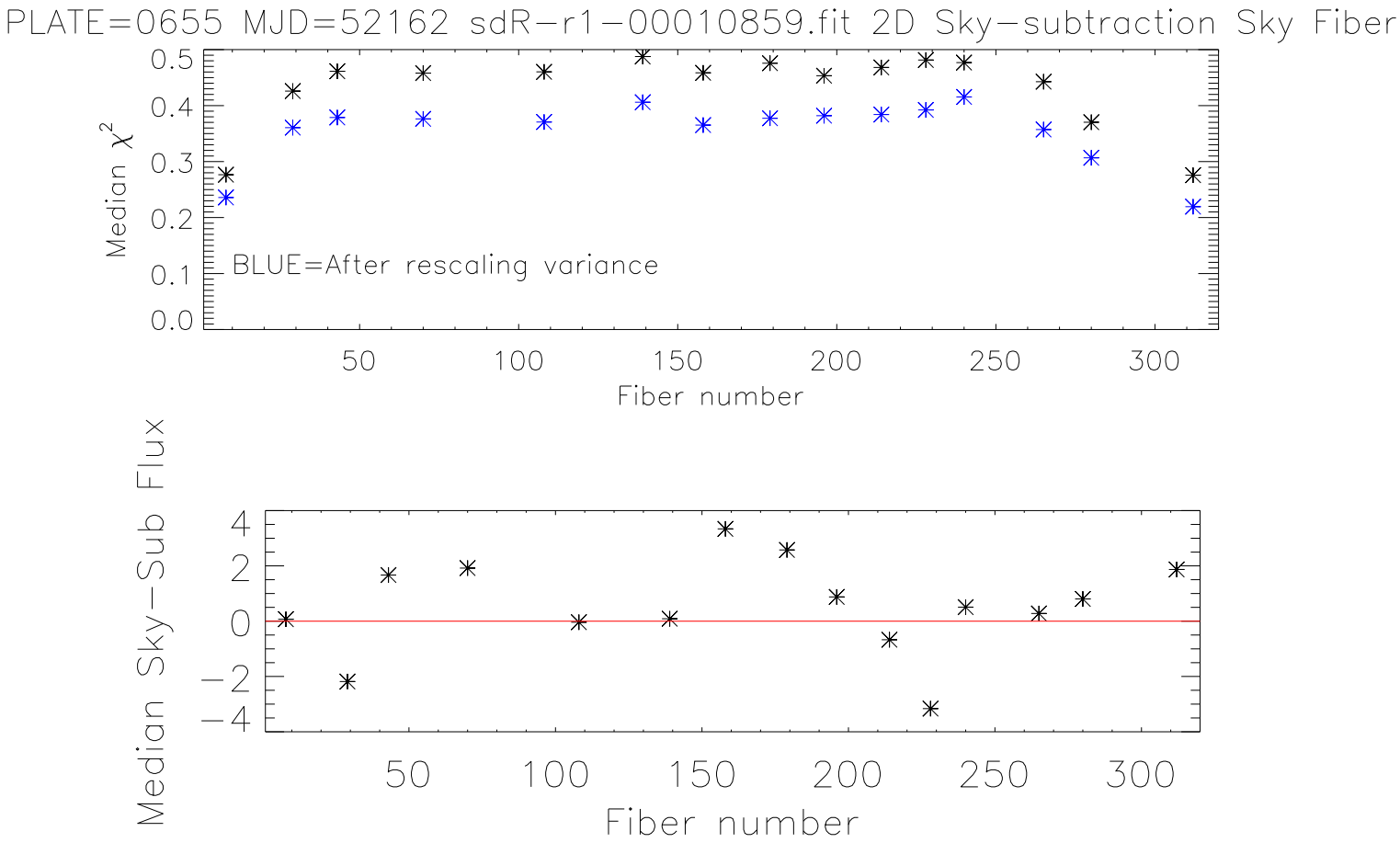

PLATE=0655 MJD=52162 sdR-r1-00010859.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

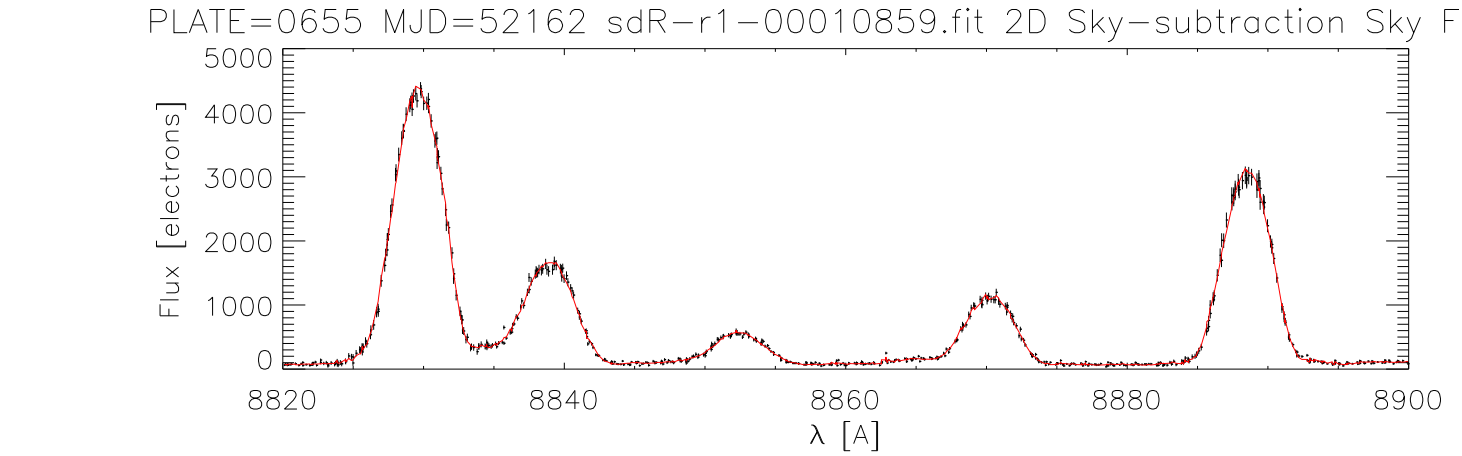
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

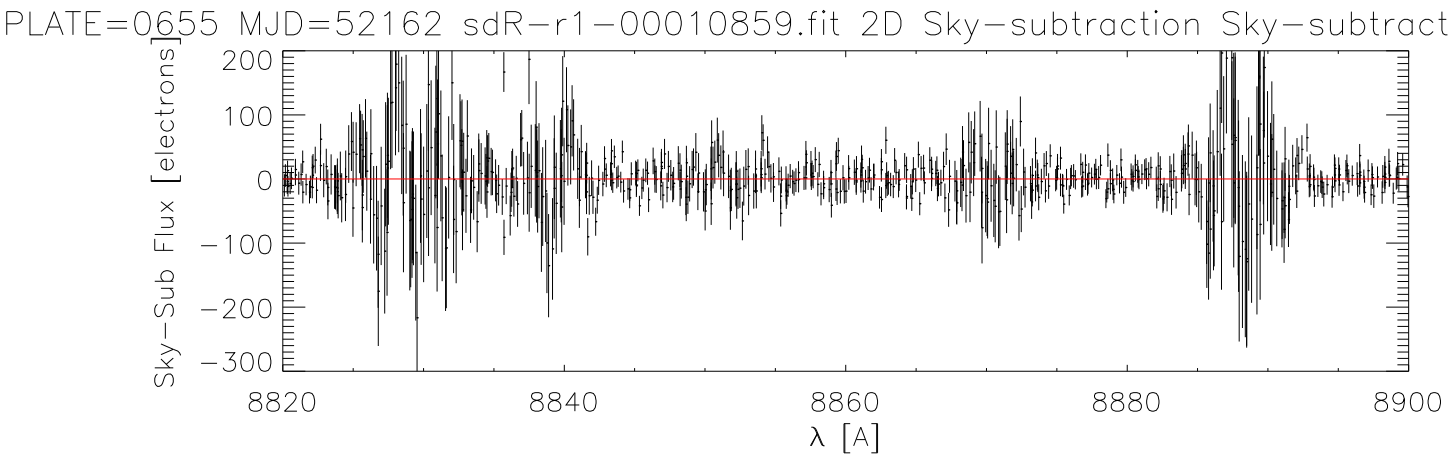

PLATE=0655 MJD=52162 sdR-r1-00010859.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

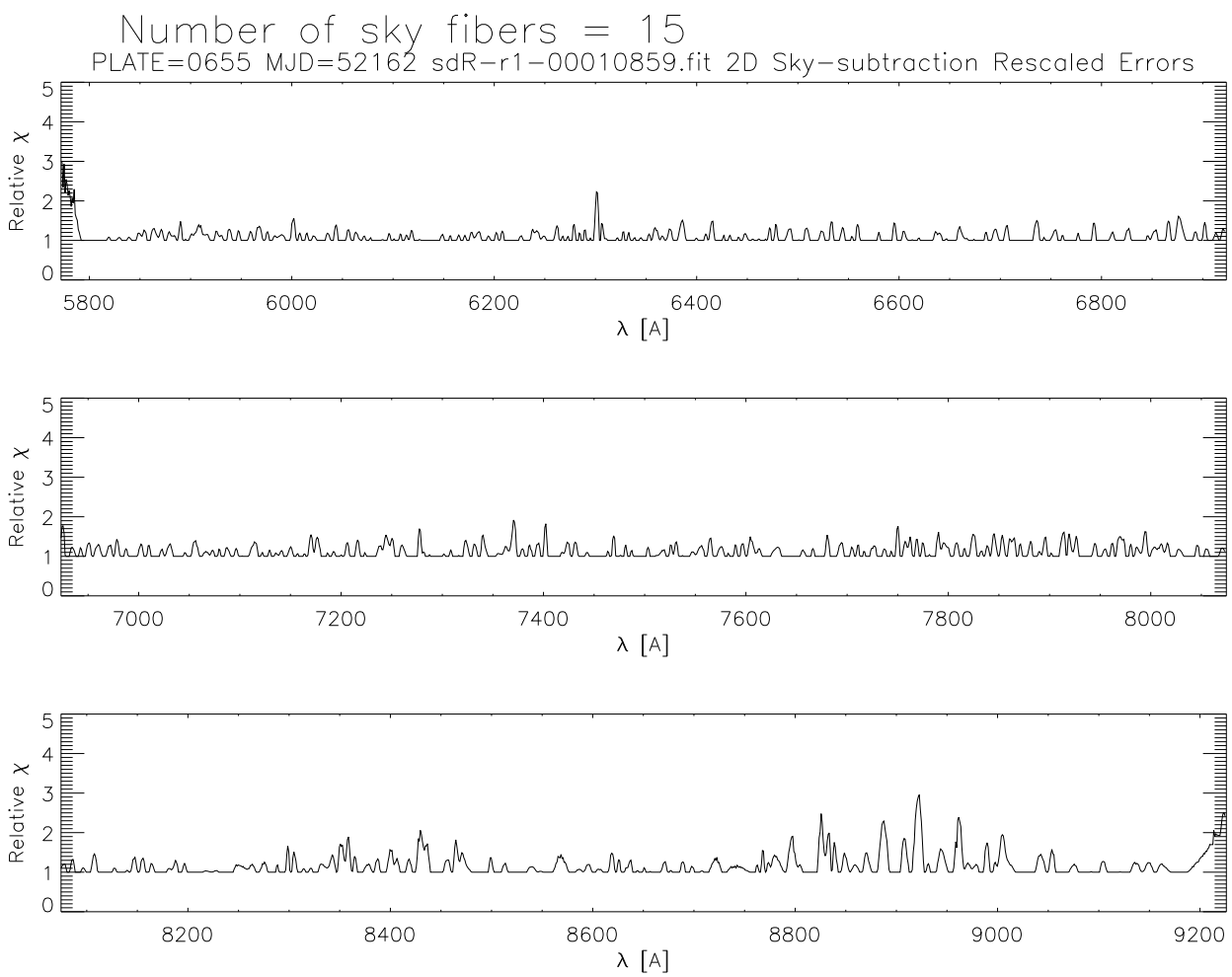

PLATE=0655 MJD=52162 sdR-r1-00010859.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

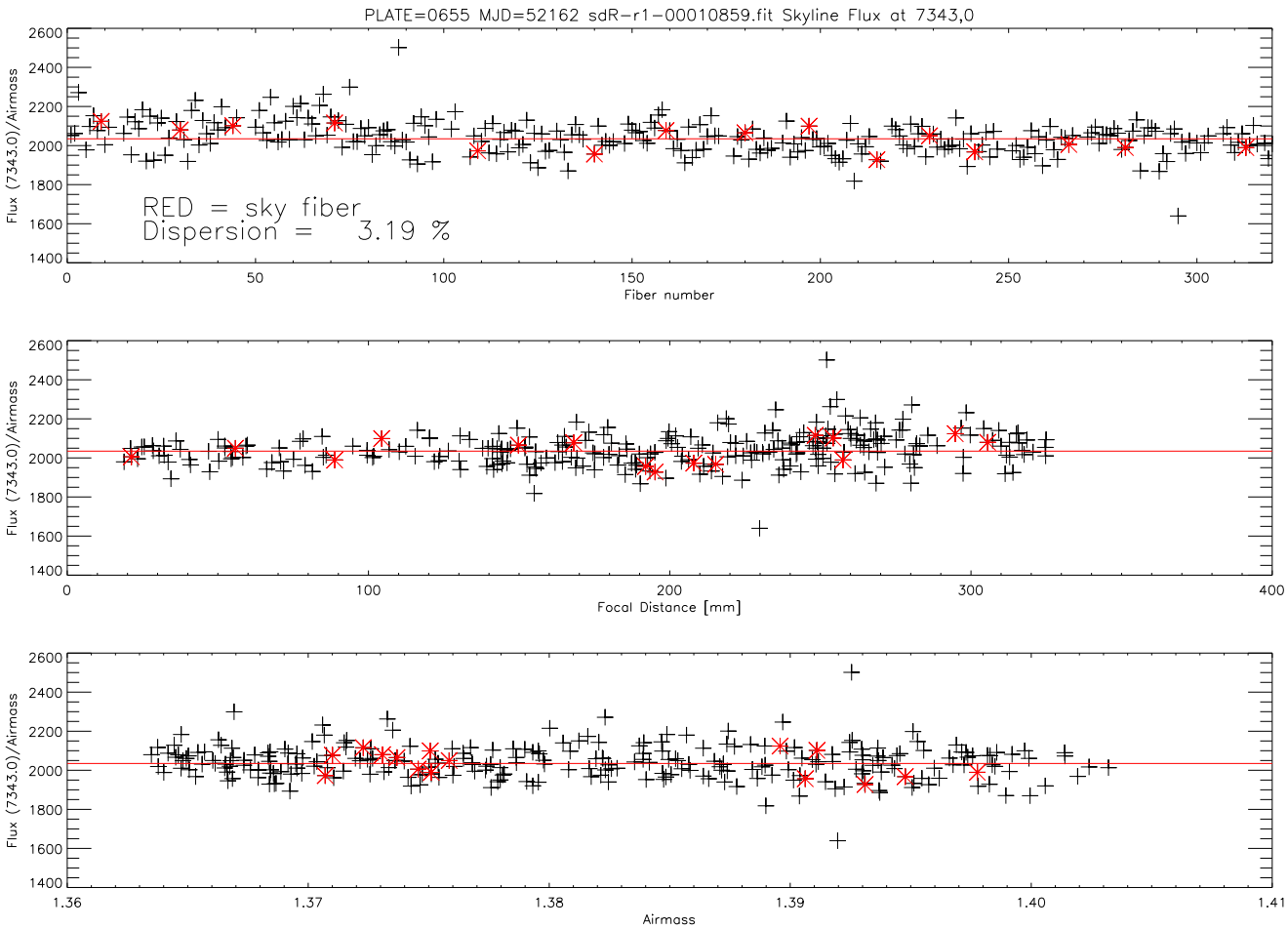

Number of sky fibers = 15
PLATE=0655 MJD=52162 sdR-r1-00010859.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

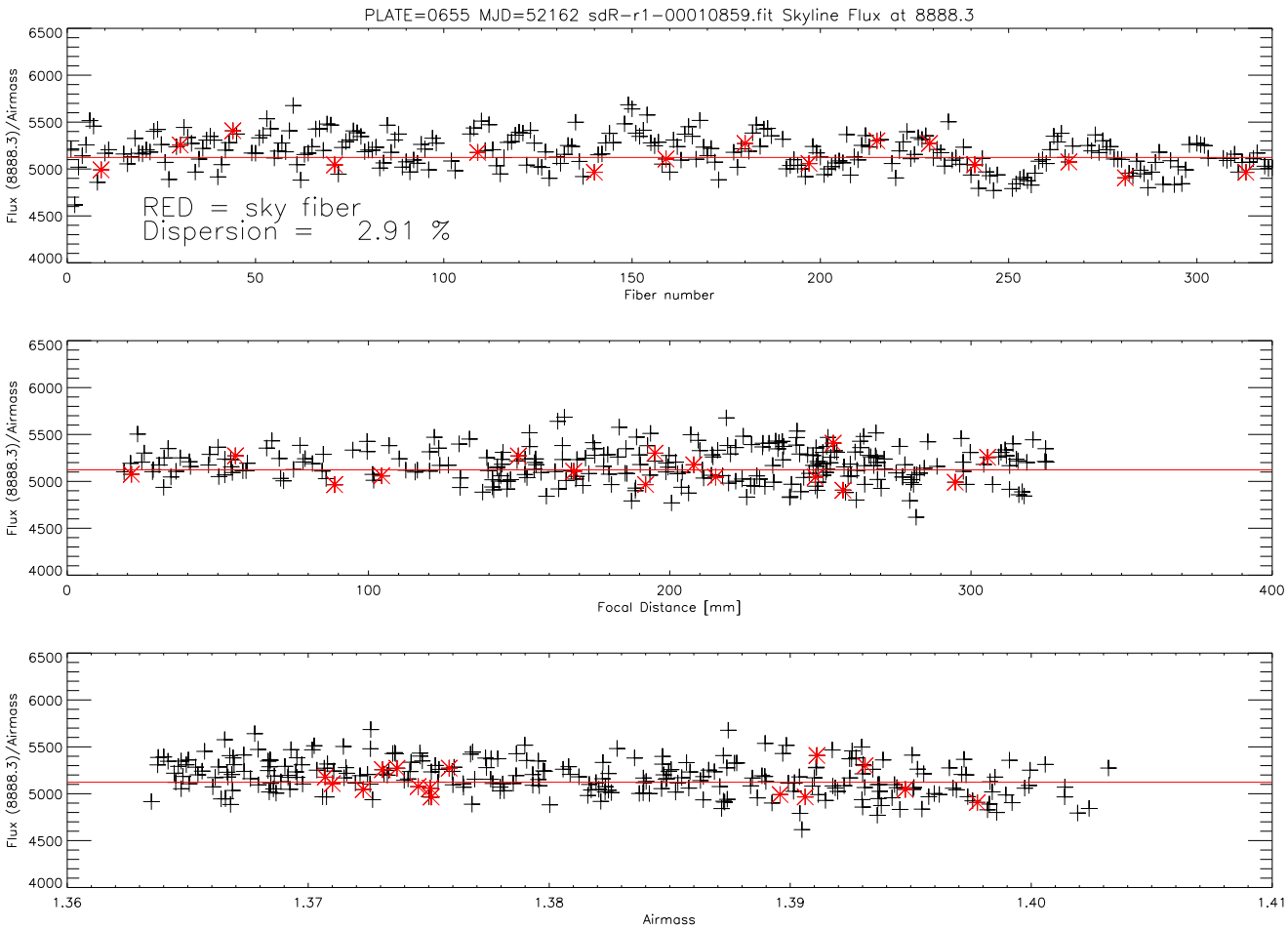

PLATE=0655 MJD=52162 sdR-r1-00010859.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

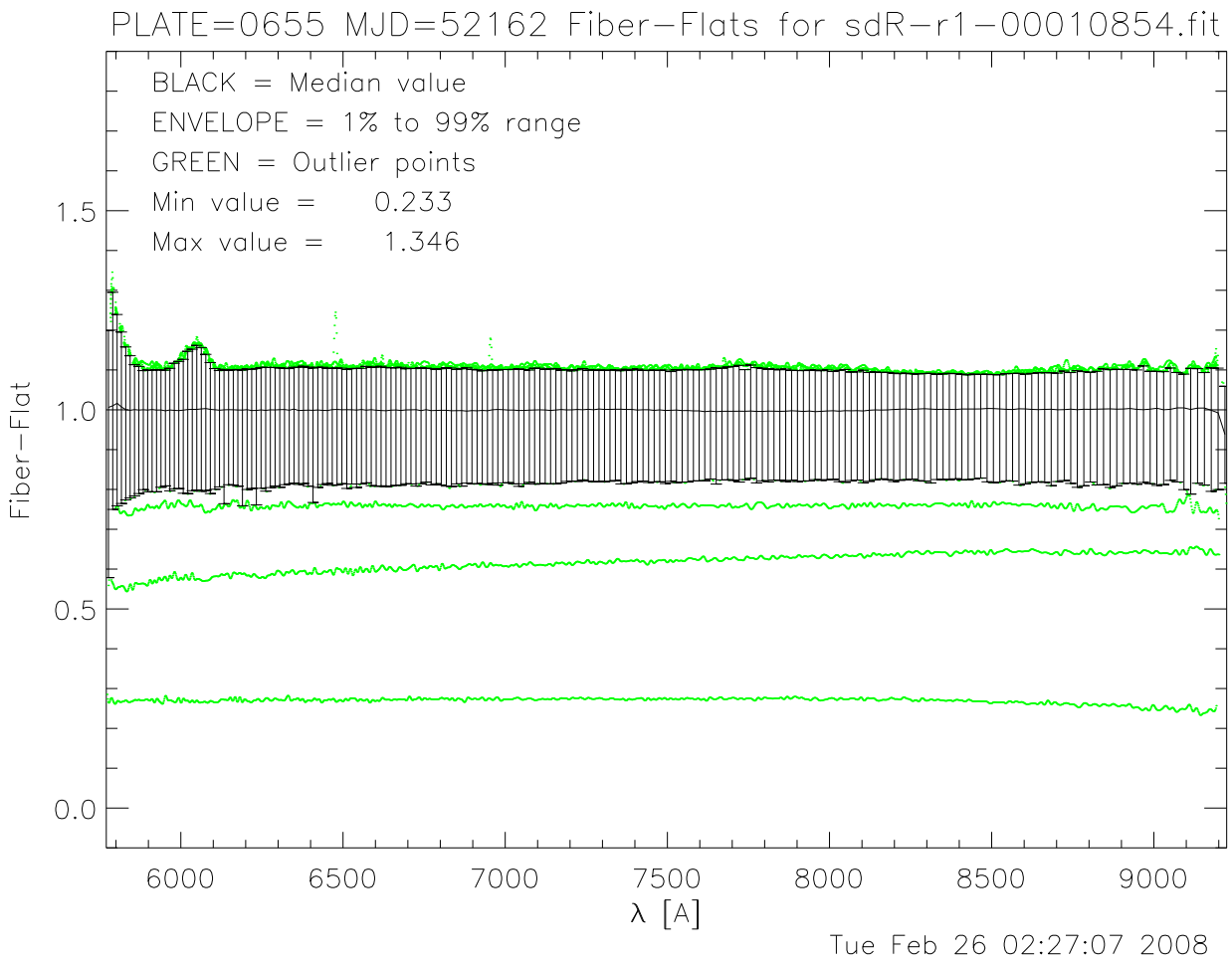

PLATE=0655 MJD=52162 sdR-r1-00010859.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

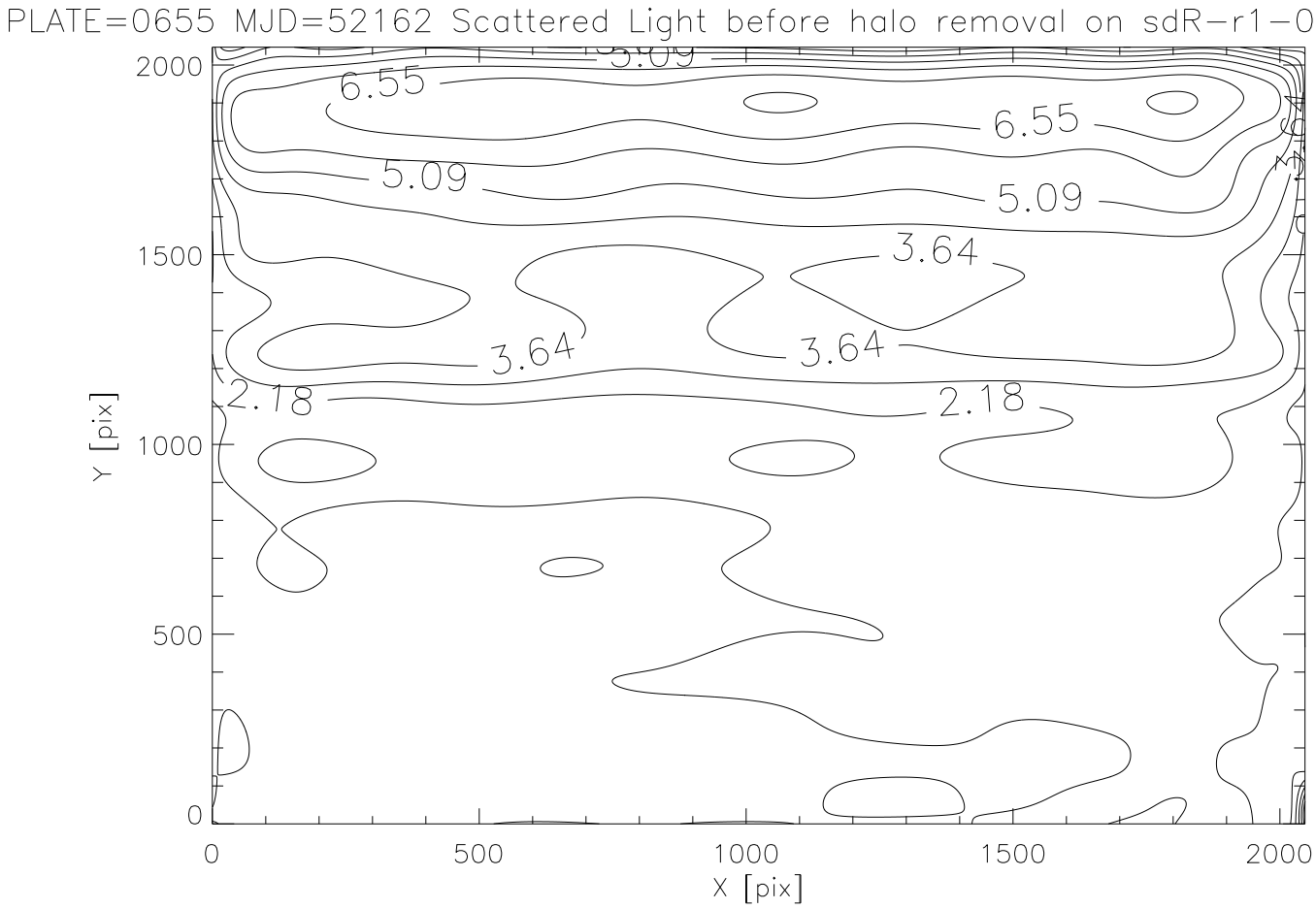

PLATE=0655 MJD=52162 sdR-r1-00010859.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

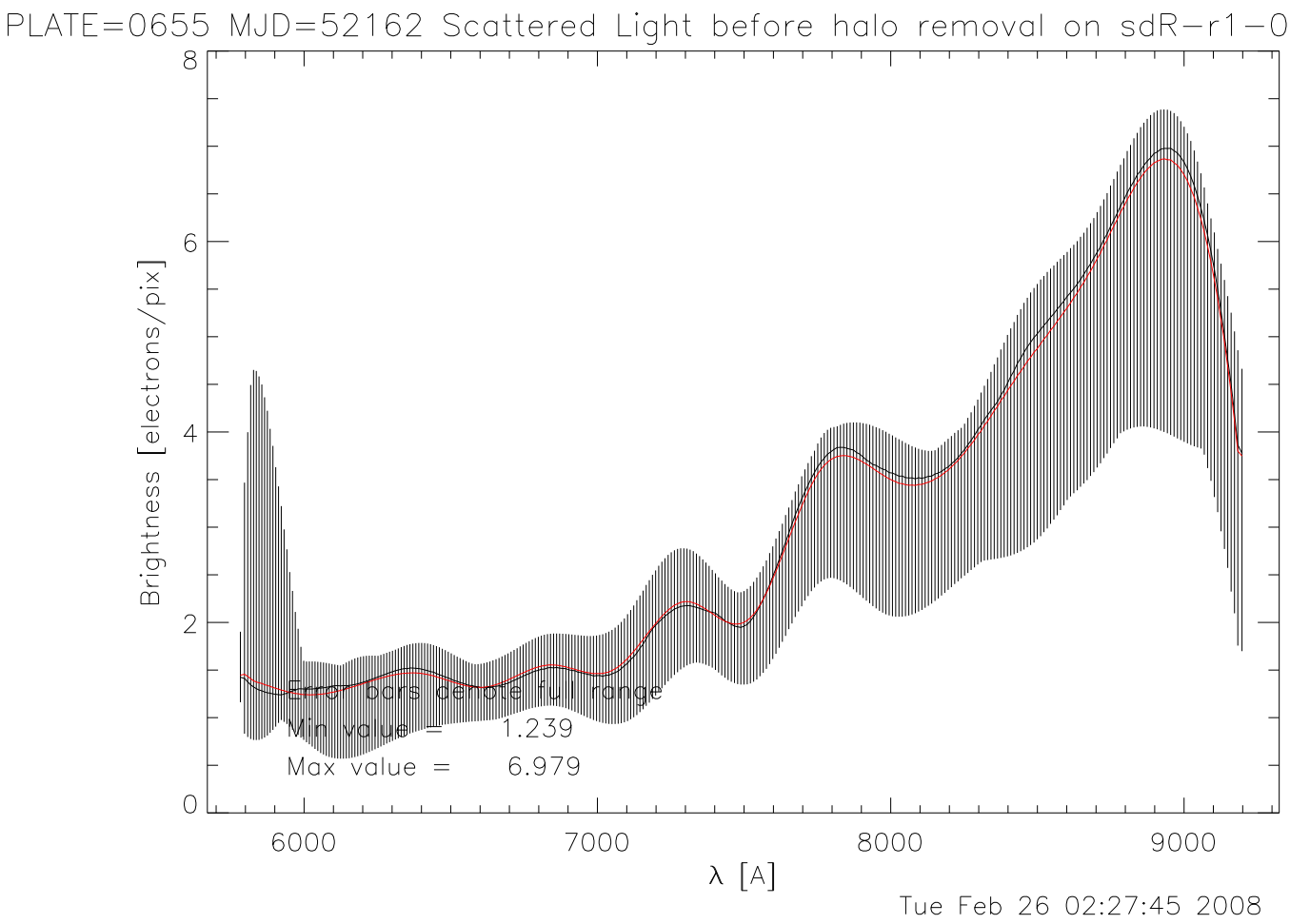

Number of sky fibers = 15
PLATE=0655 MJD=52162 sdR-r1-00010859.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

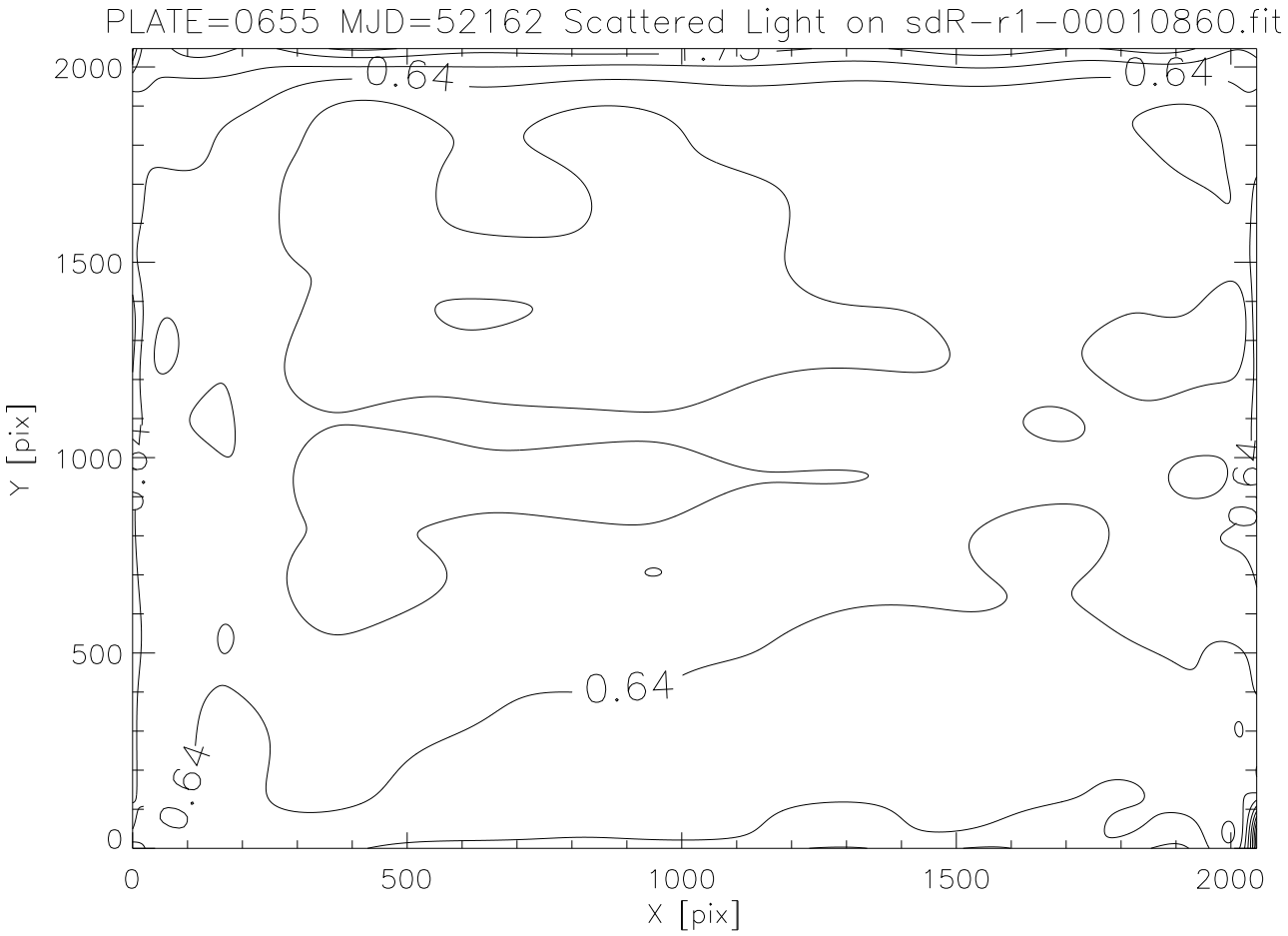

PLATE=0655 MJD=52162 sdR-r1-00010859.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.19 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

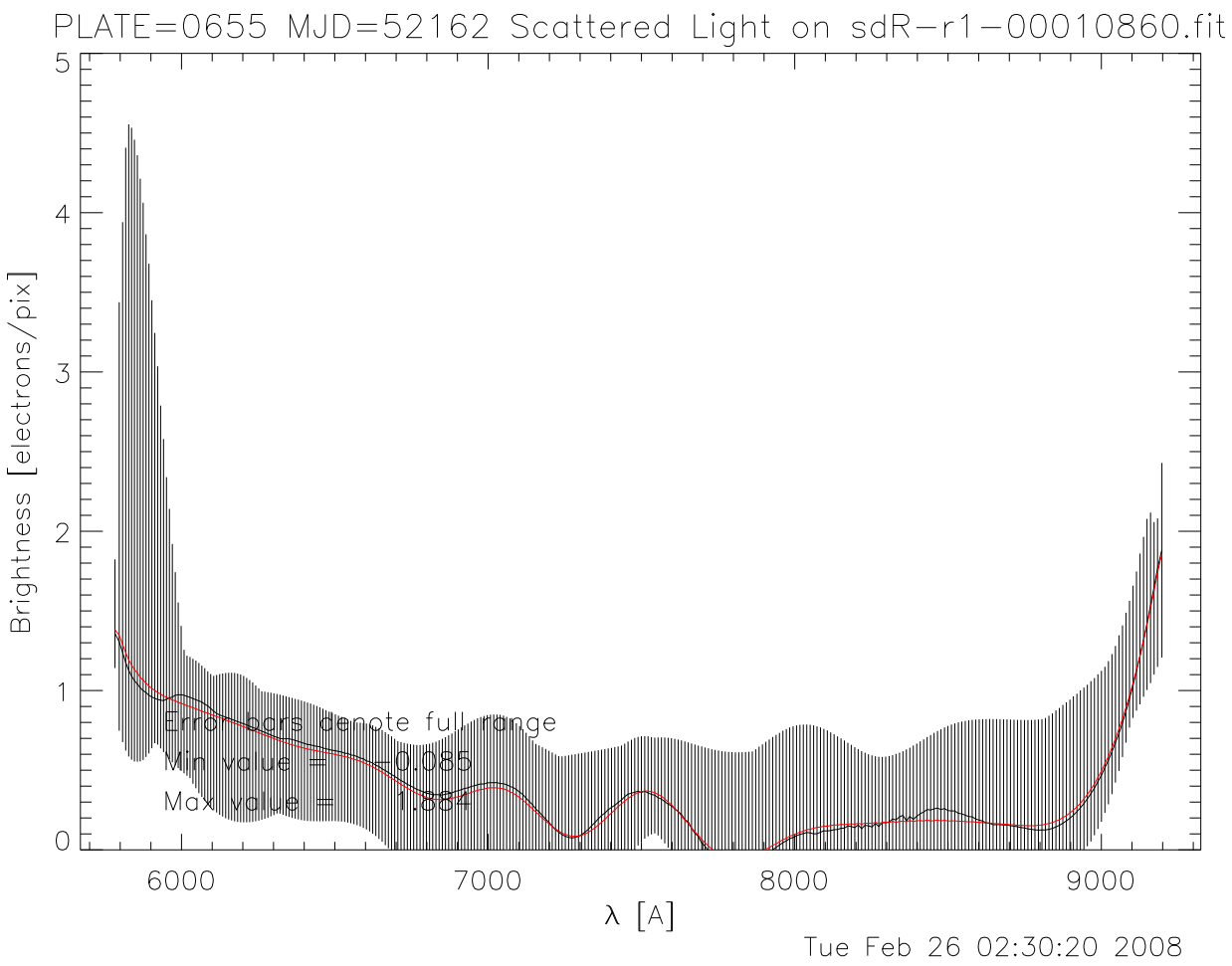

PLATE=0655 MJD=52162 sdR-r1-00010859.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.91 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

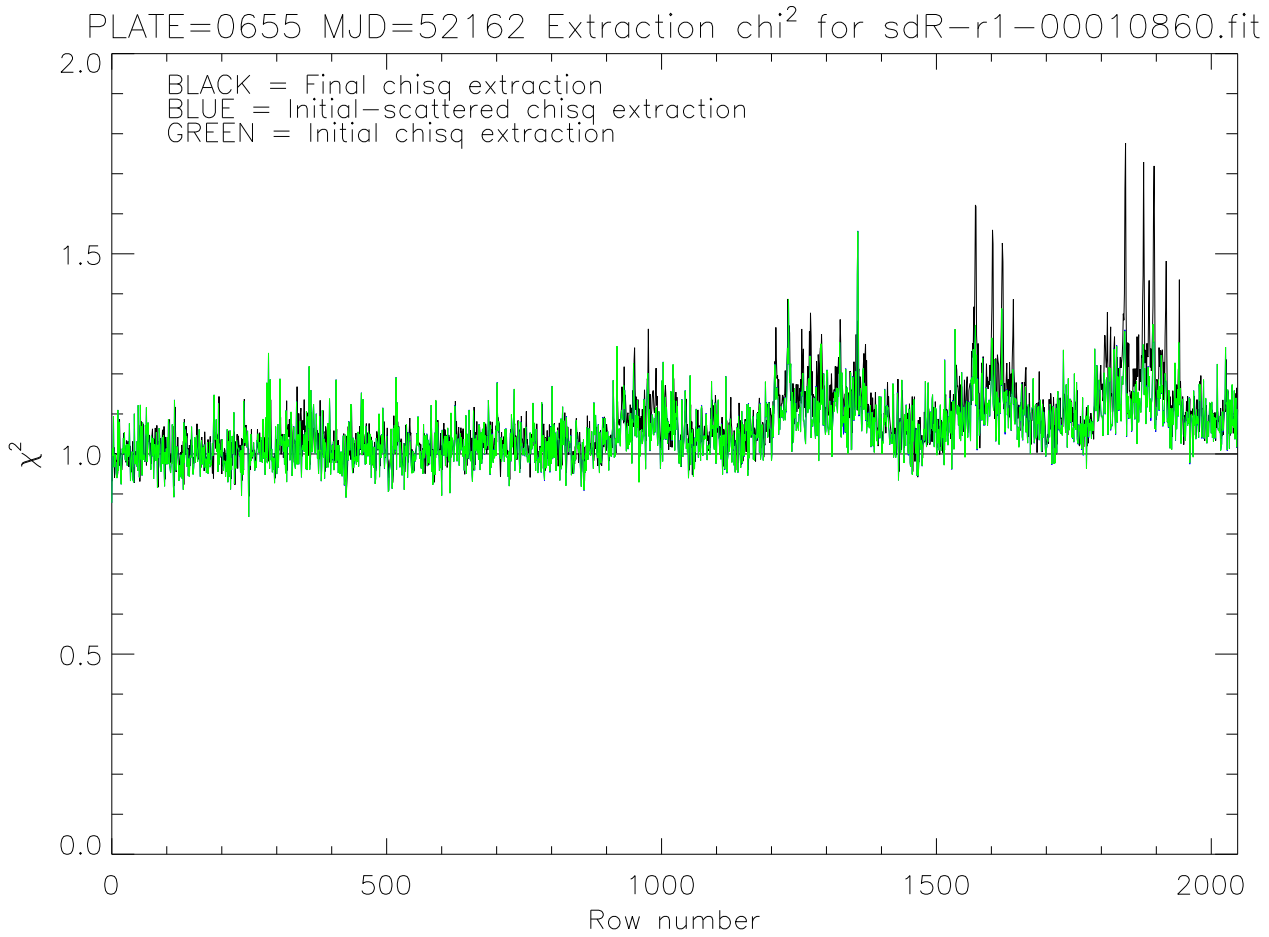

PLATE=0655 MJD=52162 Fiber−Flats for sdR−r1−00010854.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.233
Max value = 1.346
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Tue Feb 26 02:27:07 2008

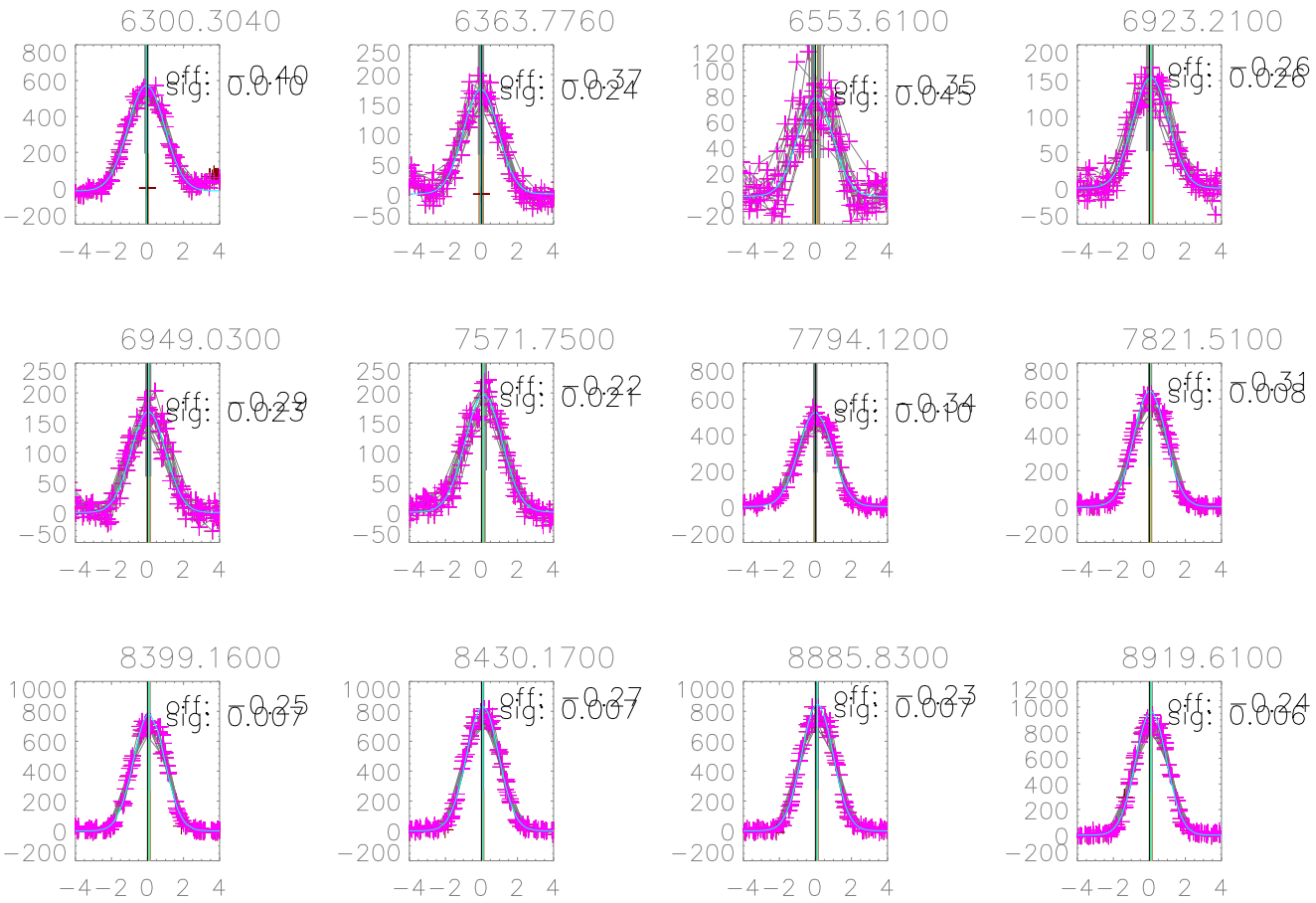

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-r1-00010860.fi
6.55
6.55
5.09
5.09
3.64
3.64
3.64
2.18
2.18
Y [pix]
X [pix]
0
500
1000
1500
2000

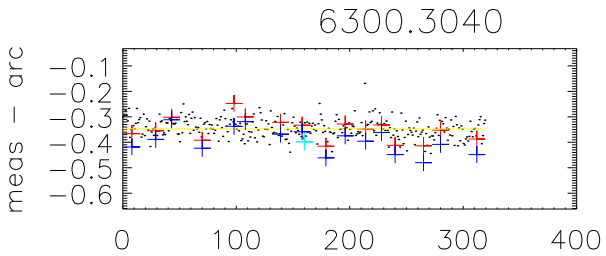

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-r1-00010860.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 1.239
Max value = 6.979
Tue Feb 26 02:27:45 2008

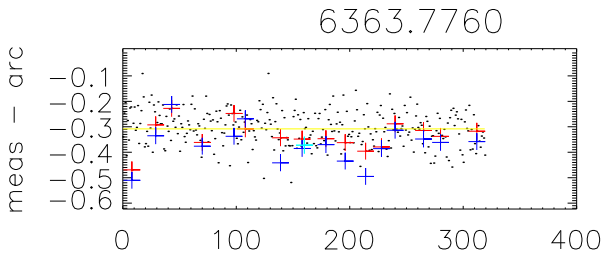

PLATE=0655 MJD=52162 Scattered Light on sdR-r1-00010860.fit
0.64
0.64
0.64
0.64
0
0
0
0
0
0
500
1000
1500
2000
Y [pix]
X [pix]

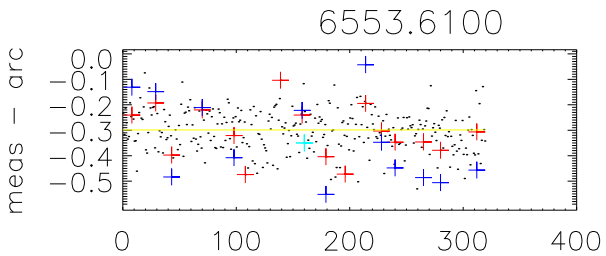

PLATE=0655 MJD=52162 Scattered Light on sdR-r1-00010860.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = -0.085
Max value = 1.884
Tue Feb 26 02:30:20 2008

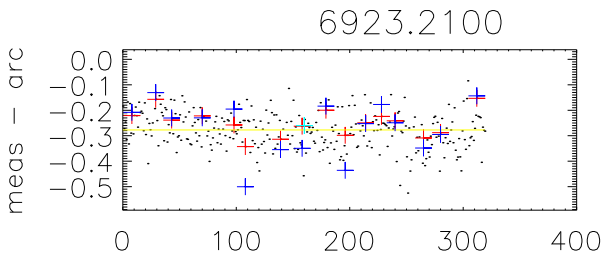

PLATE=0655 MJD=52162 Extraction chi^2 for sdR−r1−00010860.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

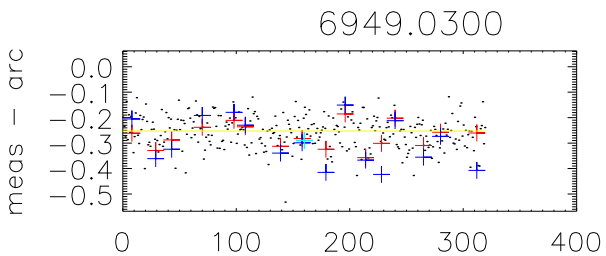

6300.3040
off: -0.40
sig: 0.010
6363.7760
off: -0.37
sig: 0.024
6553.6100
off: -0.35
sig: 0.045
6923.2100
off: -0.26
sig: 0.026
6949.0300
off: -0.29
sig: 0.023
7571.7500
off: -0.22
sig: 0.021
7794.1200
off: -0.34
sig: 0.010
7821.5100
off: -0.31
sig: 0.008
8399.1600
off: -0.25
sig: 0.007
8430.1700
off: -0.27
sig: 0.007
8885.8300
off: -0.23
sig: 0.007
8919.6100
off: -0.24
sig: 0.006

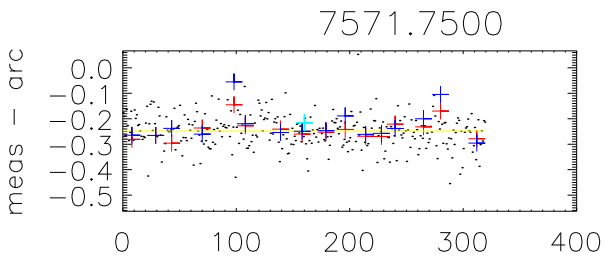

6300.3040
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

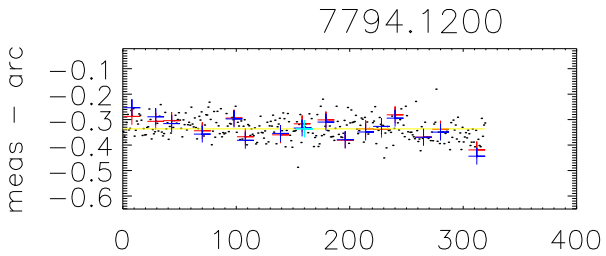

6363.7760
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

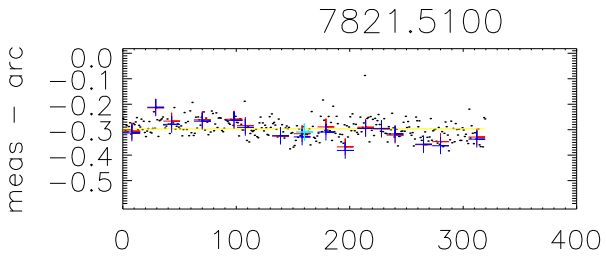

6553.6100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

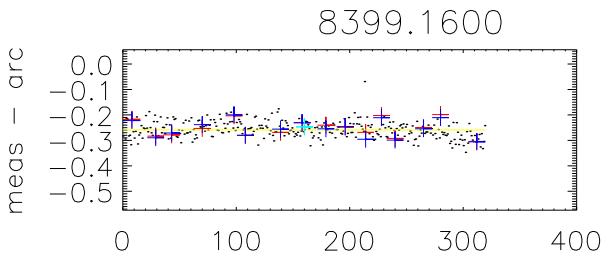

6923.2100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

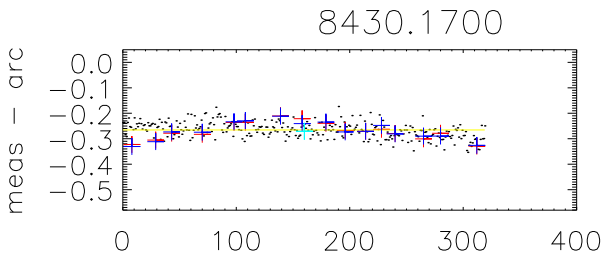

6949.0300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

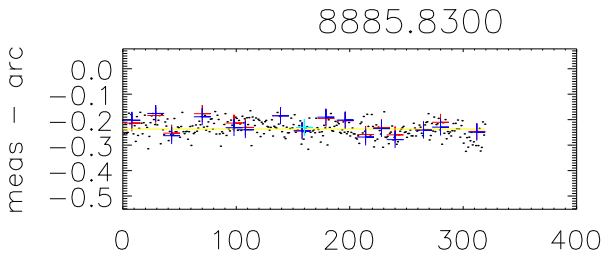

7571.7500
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

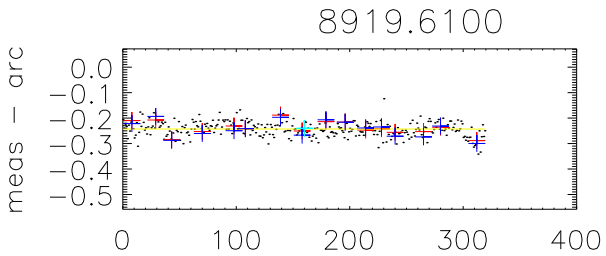

7794.1200
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

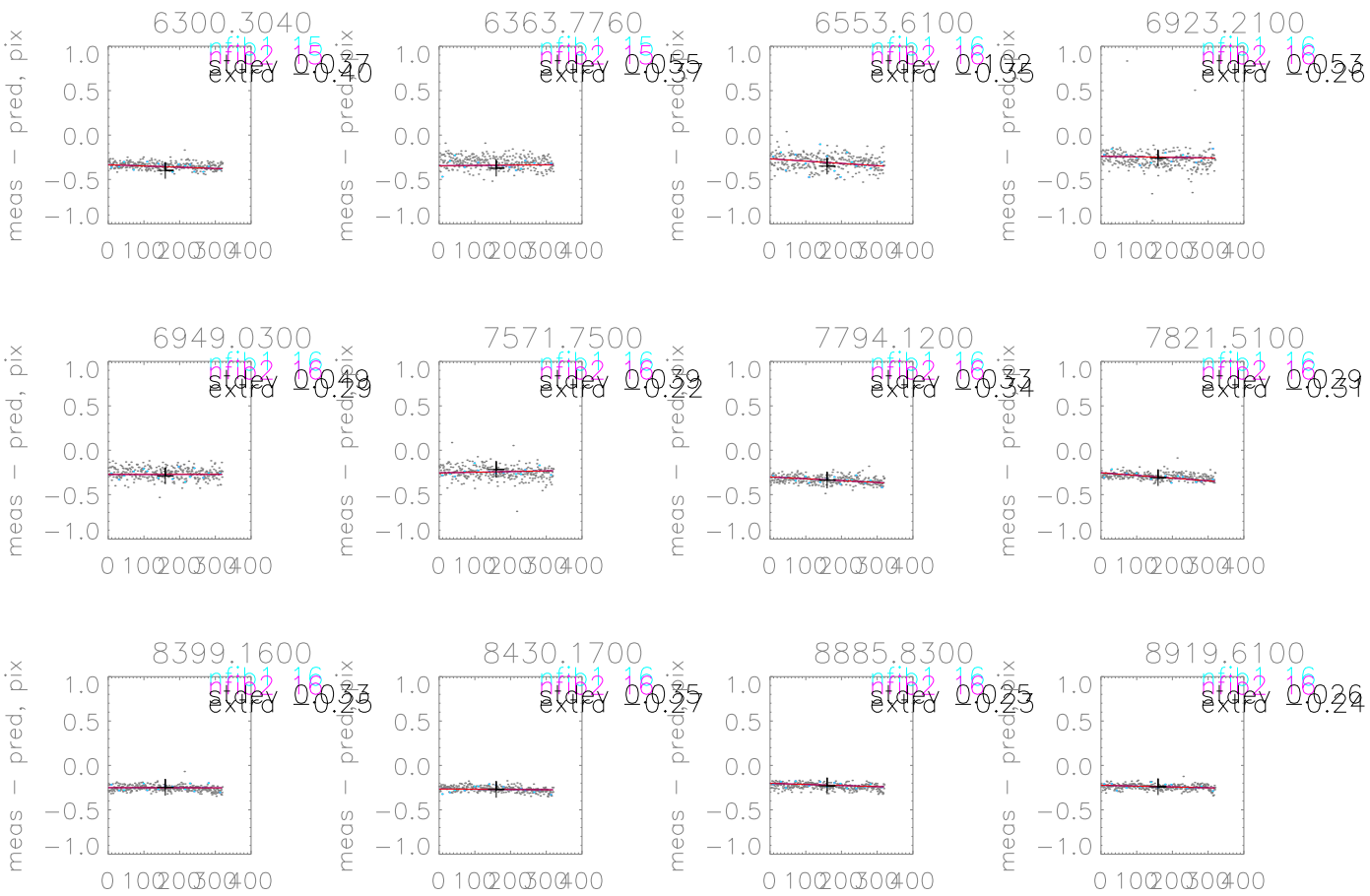

7821.5100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

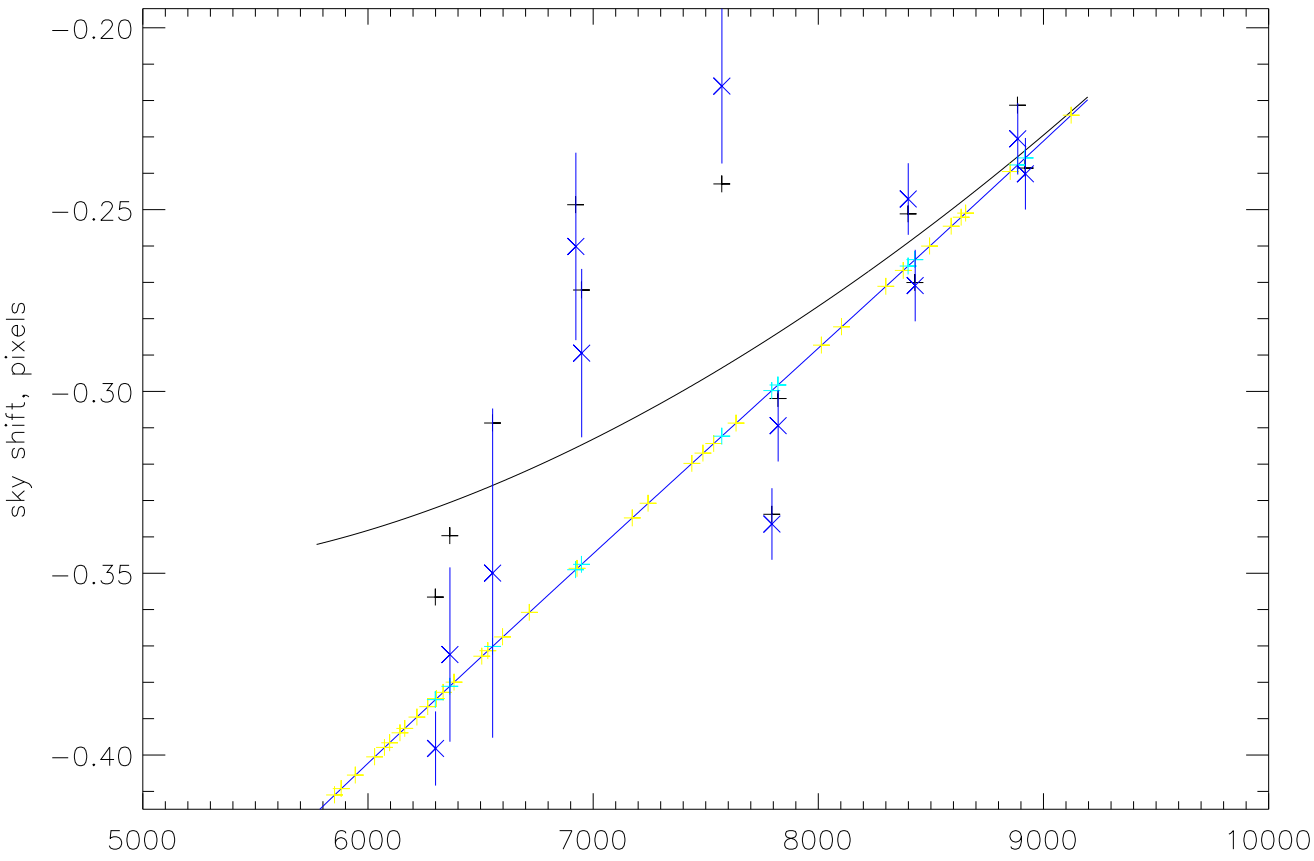

8399.1600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

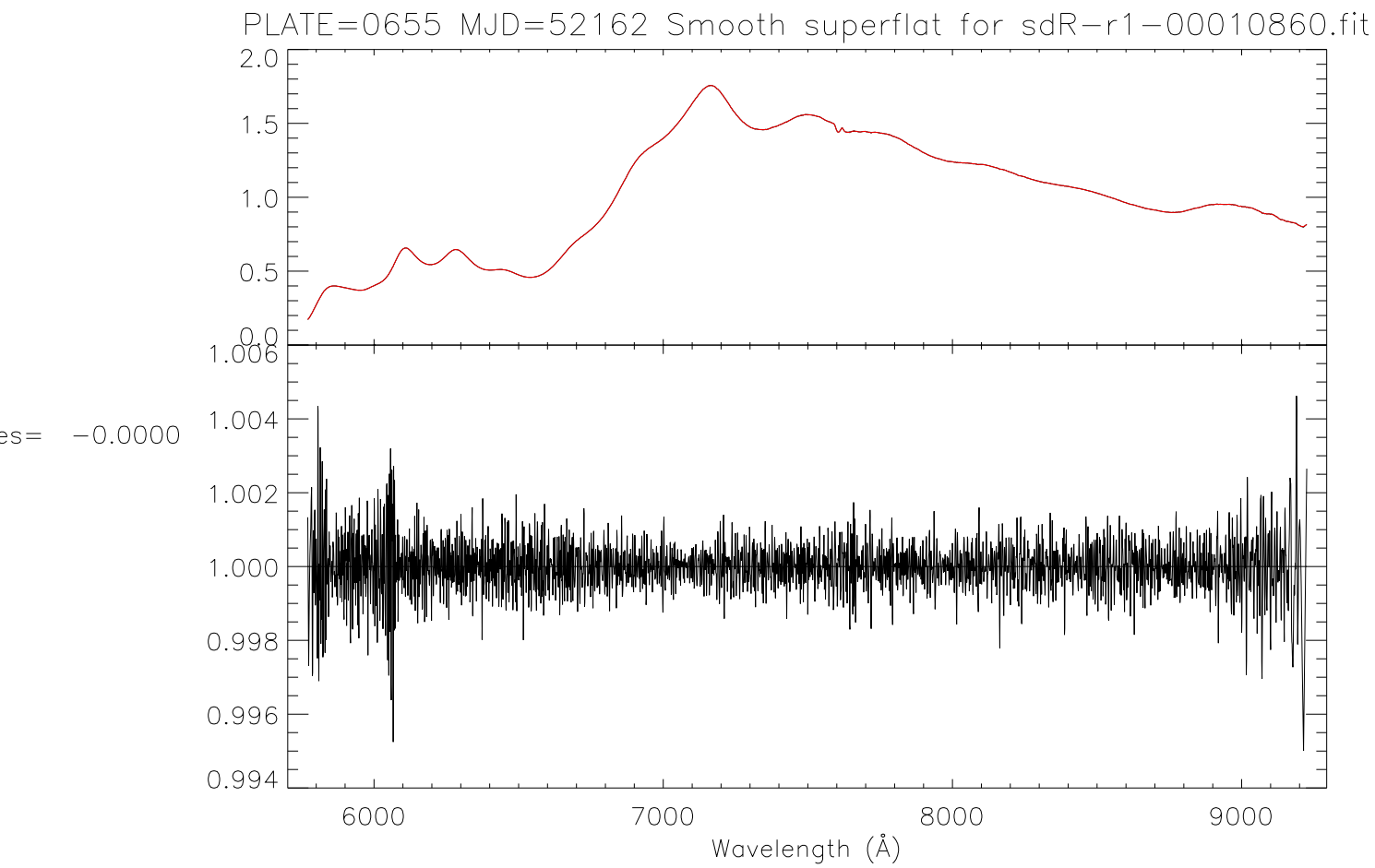

8430.1700
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

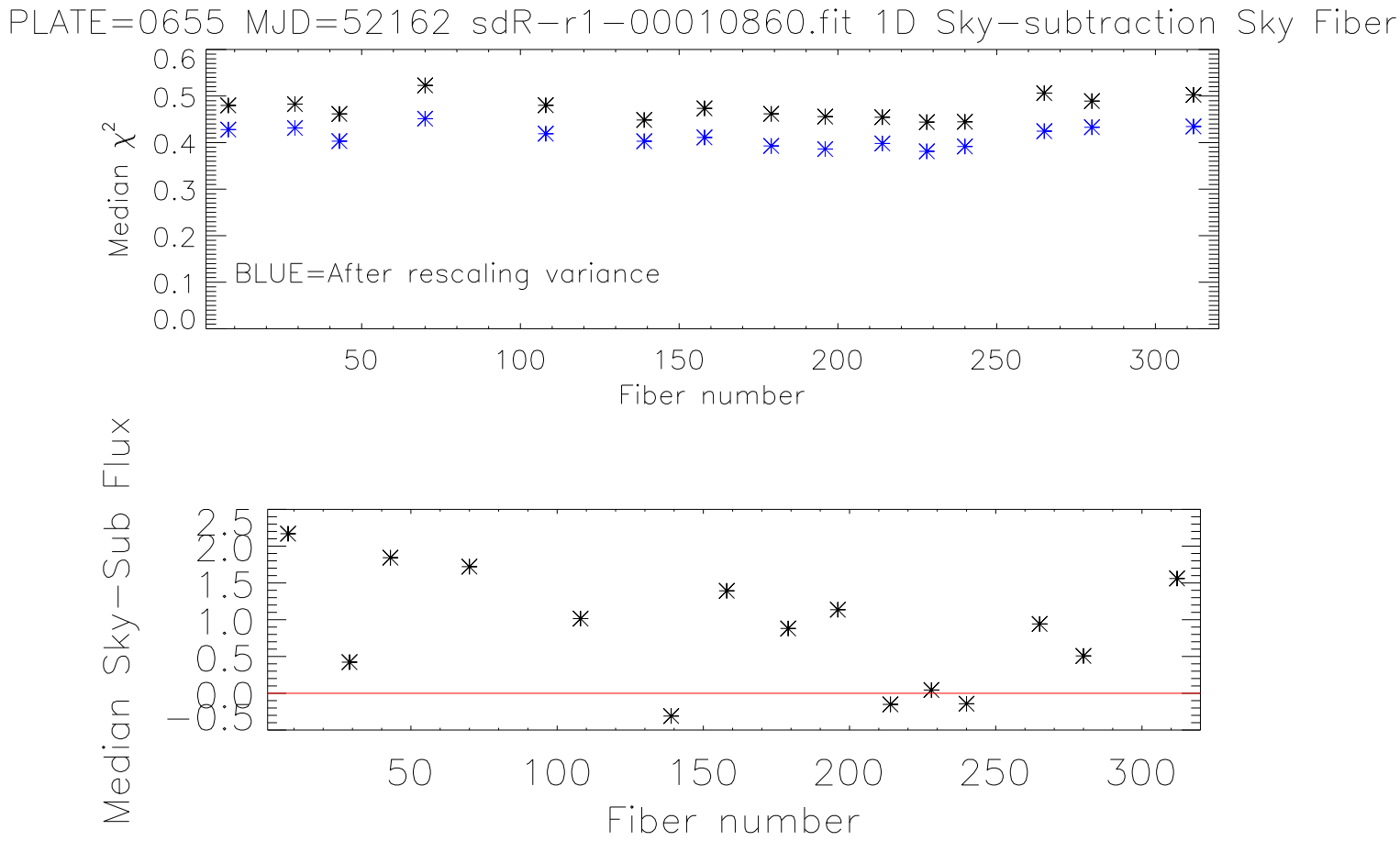

8885.8300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

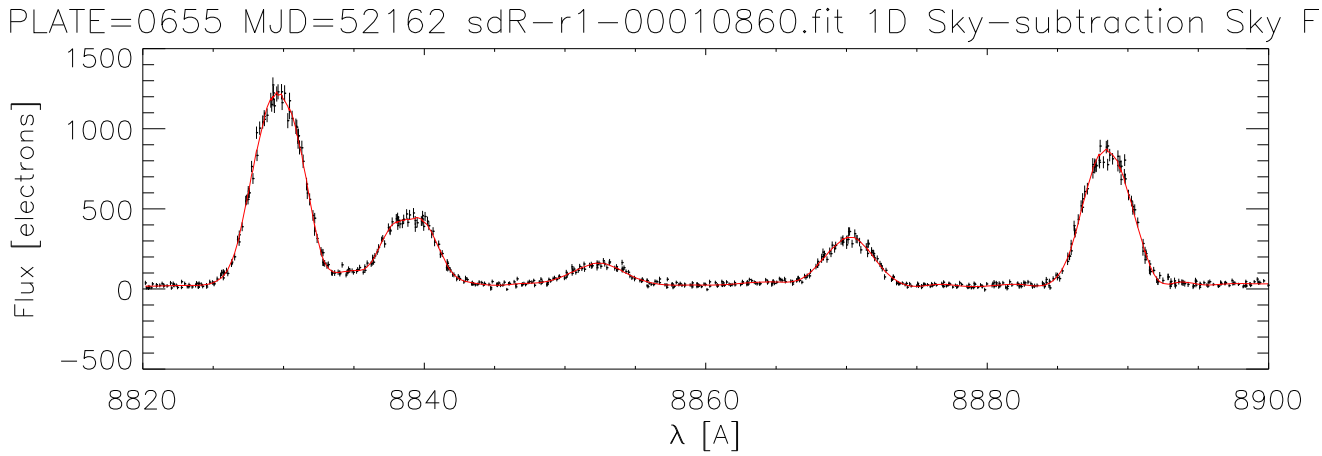

8919.6100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

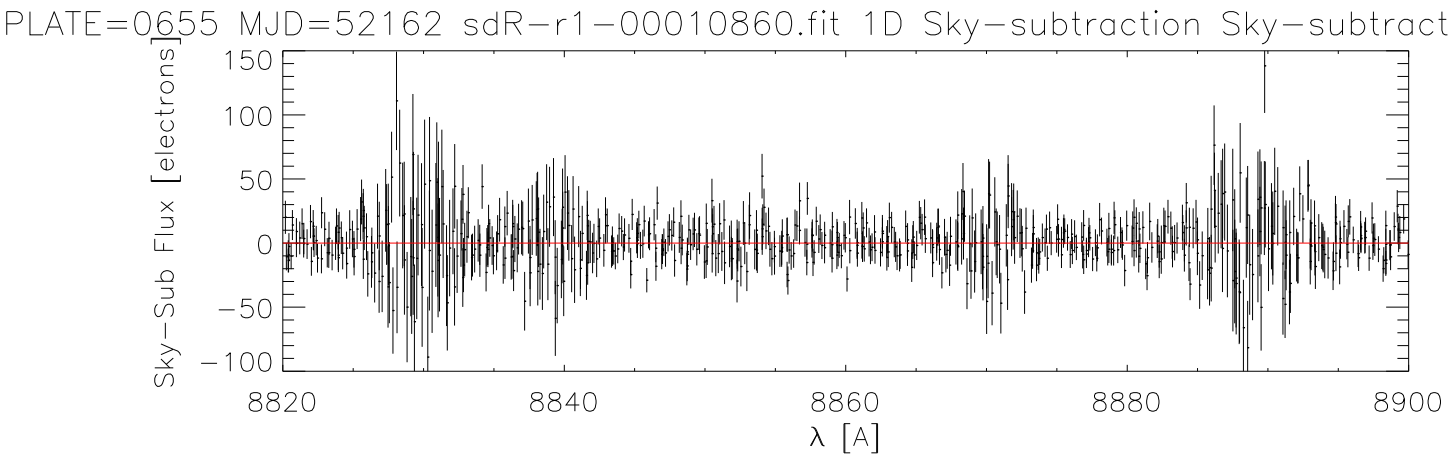

6300.3040
mfhd2 15
stdev 0.037
extrd 0.40
6363.7760
mfhd2 15
stdev 0.055
extrd 0.37
6553.6100
mfhd2 16
stdev 0.102
extrd 0.35
6923.2100
mfhd2 16
stdev 0.053
extrd 0.28
6949.0300
mfhd2 16
stdev 0.049
extrd 0.29
7571.7500
mfhd2 16
stdev 0.039
extrd 0.22
7794.1200
mfhd2 16
stdev 0.033
extrd 0.34
7821.5100
mfhd2 16
stdev 0.029
extrd 0.31
8399.1600
mfhd2 16
stdev 0.033
extrd 0.25
8430.1700
mfhd2 16
stdev 0.035
extrd 0.27
8885.8300
mfhd2 16
stdev 0.025
extrd 0.23
8919.6100
mfhd2 16
stdev 0.026
extrd 0.24
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

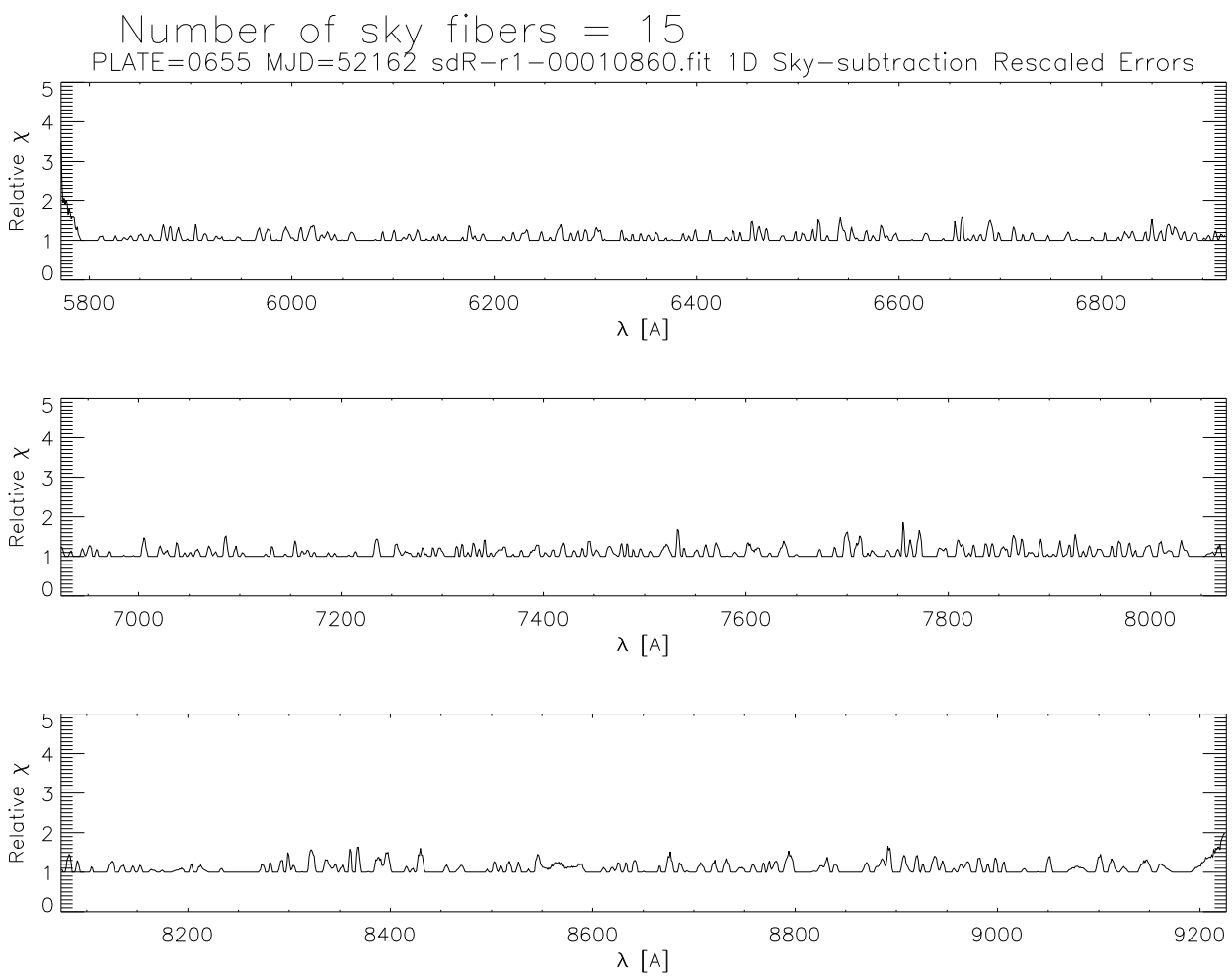

−0.20
−0.25
−0.30
−0.35
−0.40
sky shift, pixels
5000
6000
7000
8000
9000
10000

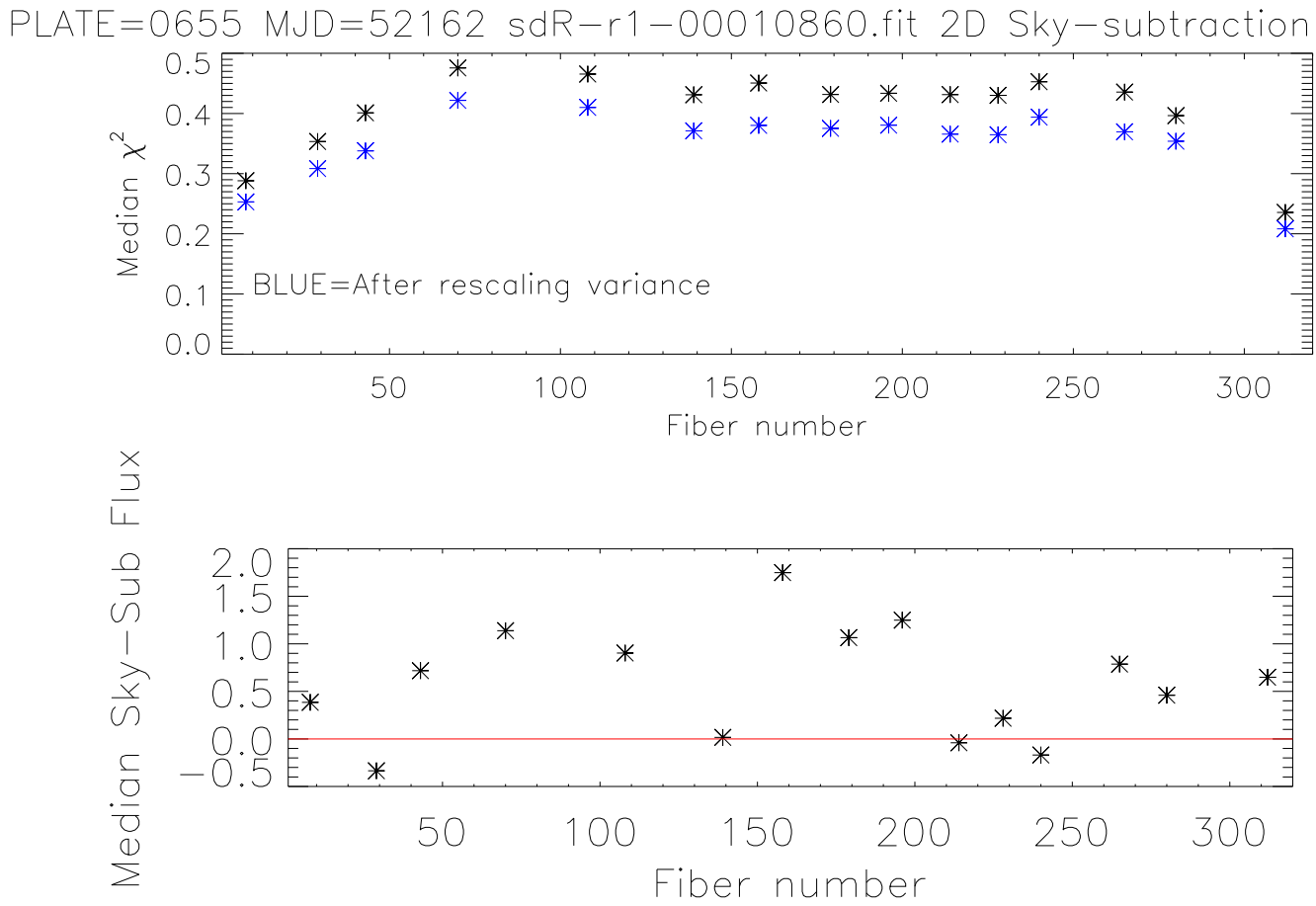

PLATE=0655 MJD=52162 Smooth superflat for sdR−r1−00010860.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

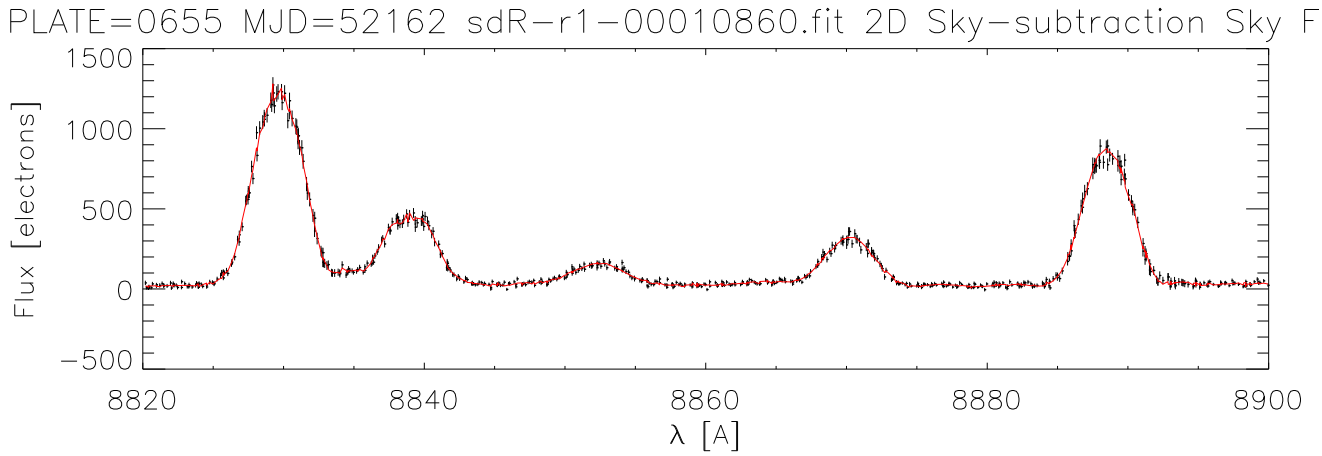

PLATE=0655 MJD=52162 sdR-r1-00010860.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

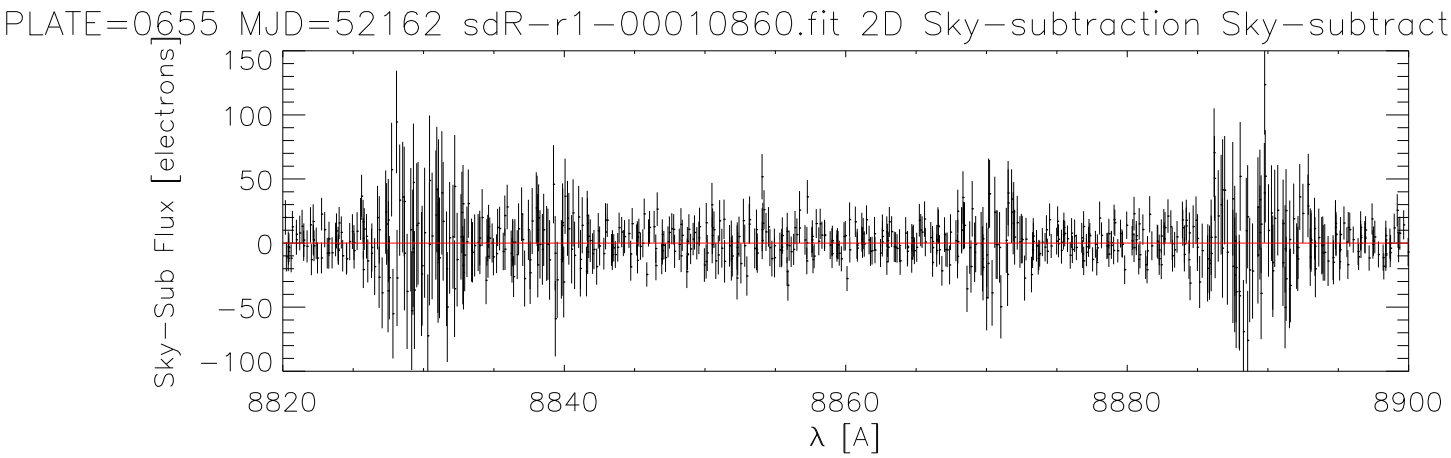

PLATE=0655 MJD=52162 sdR-r1-00010860.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

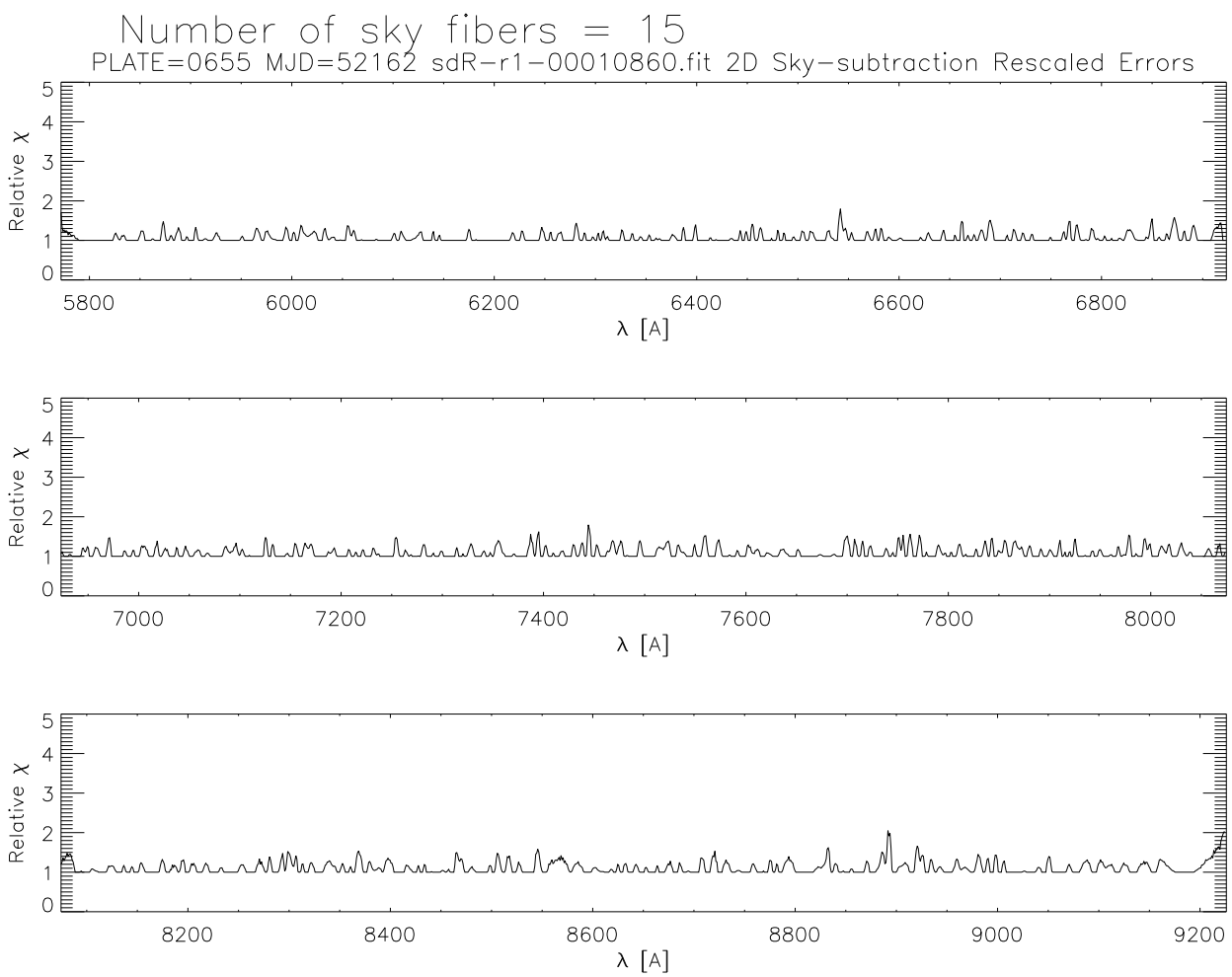

PLATE=0655 MJD=52162 sdR-r1-00010860.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
8820
8840
8860
8880
8900
λ [A]

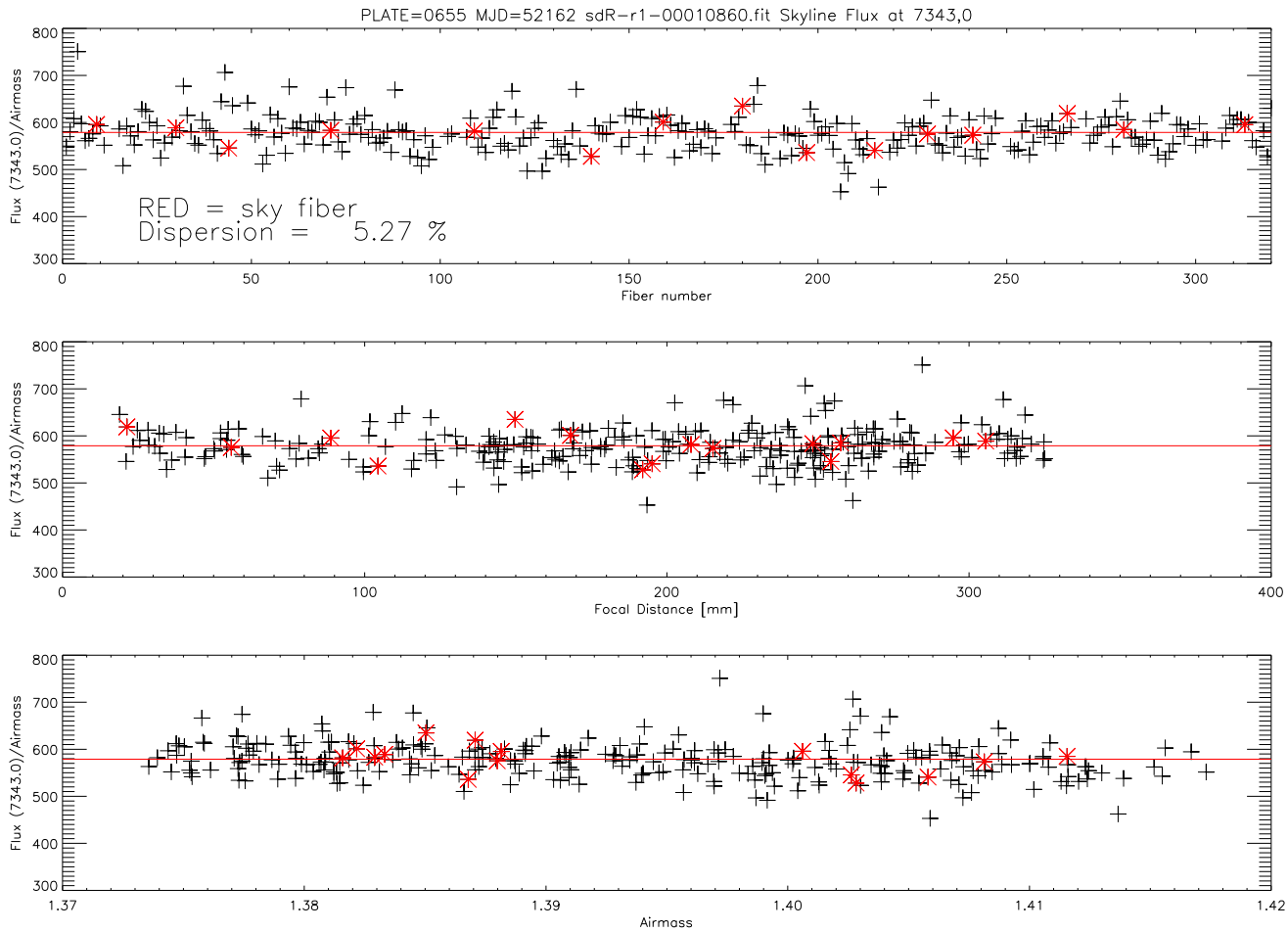

Number of sky fibers = 15
PLATE=0655 MJD=52162 sdR-r1-00010860.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

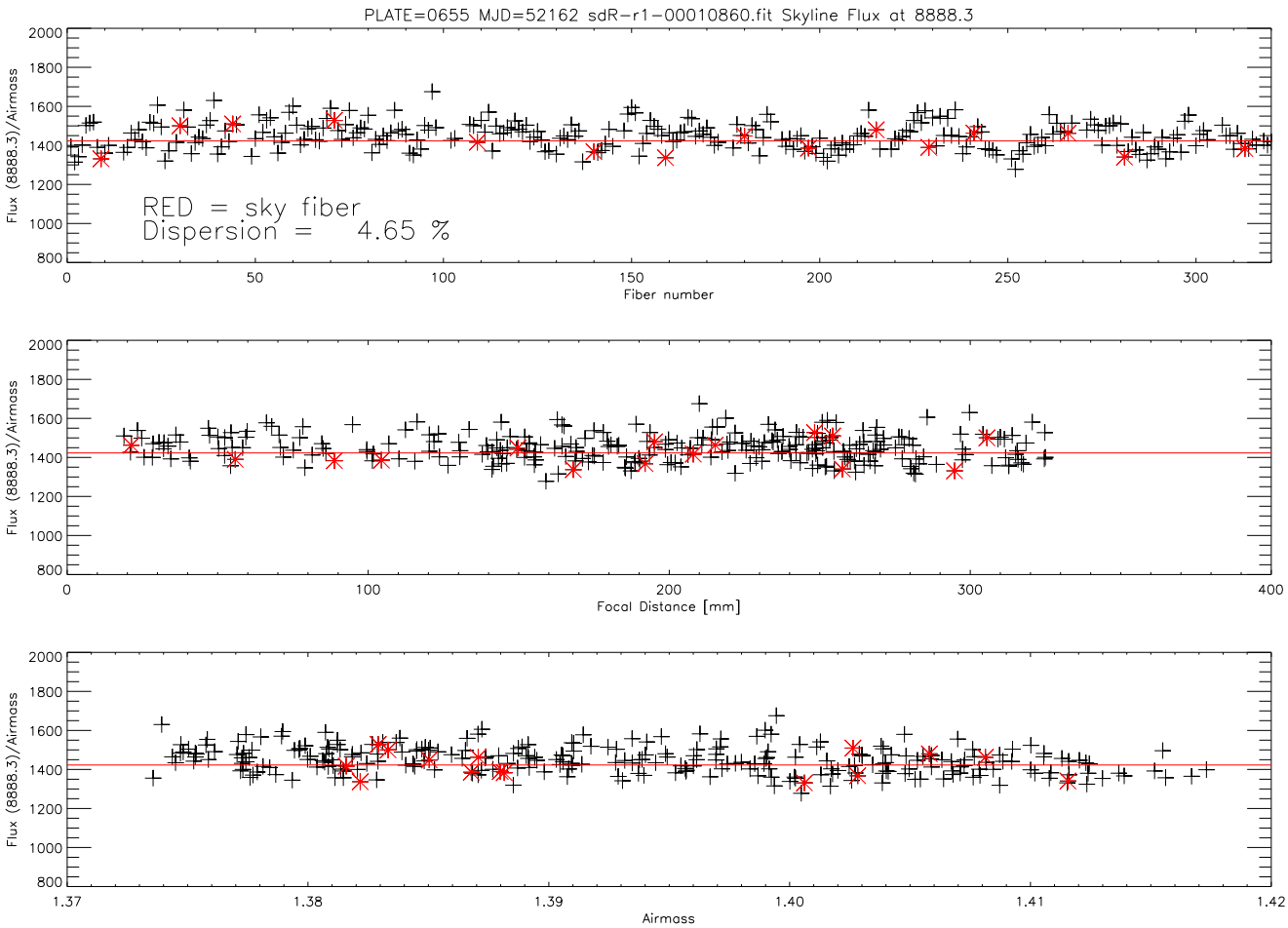

PLATE=0655 MJD=52162 sdR-r1-00010860.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

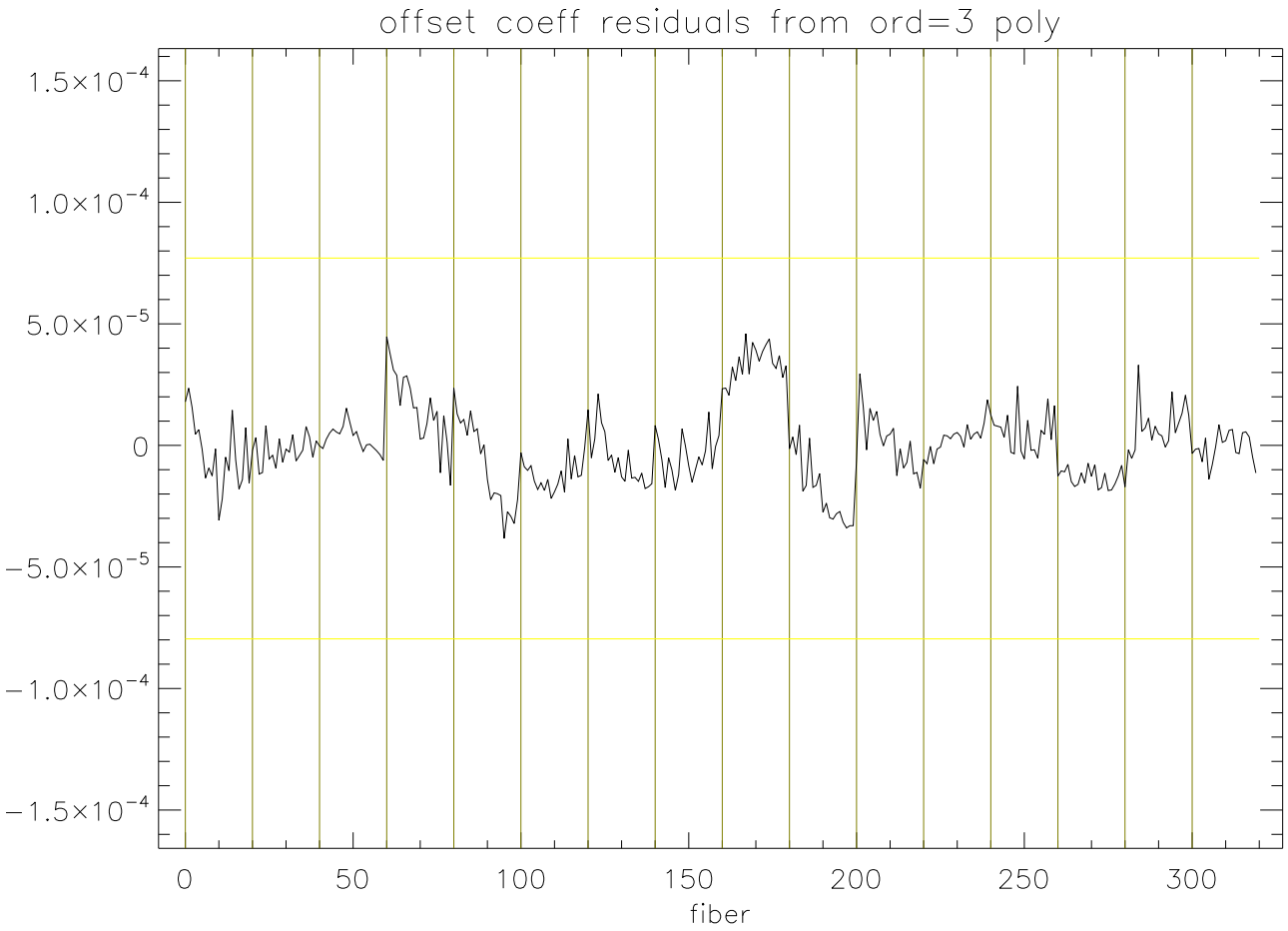

PLATE=0655 MJD=52162 sdR-r1-00010860.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1500
1000
500
0
−500
8820
8840
8860
8880
8900
λ [A]

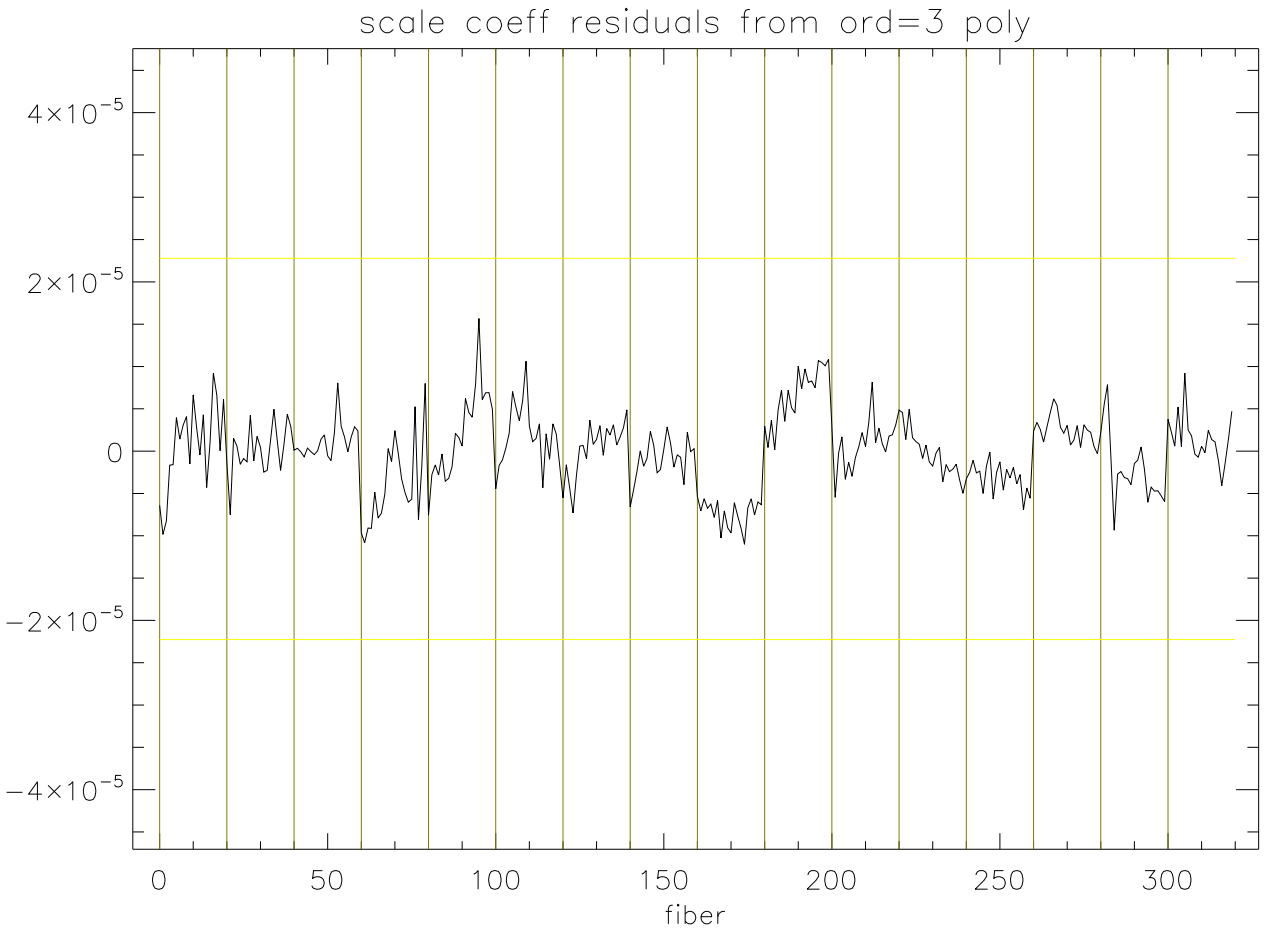

PLATE=0655 MJD=52162 sdR-r1-00010860.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
−50
−100
8820
8840
8860
8880
8900
λ [A]

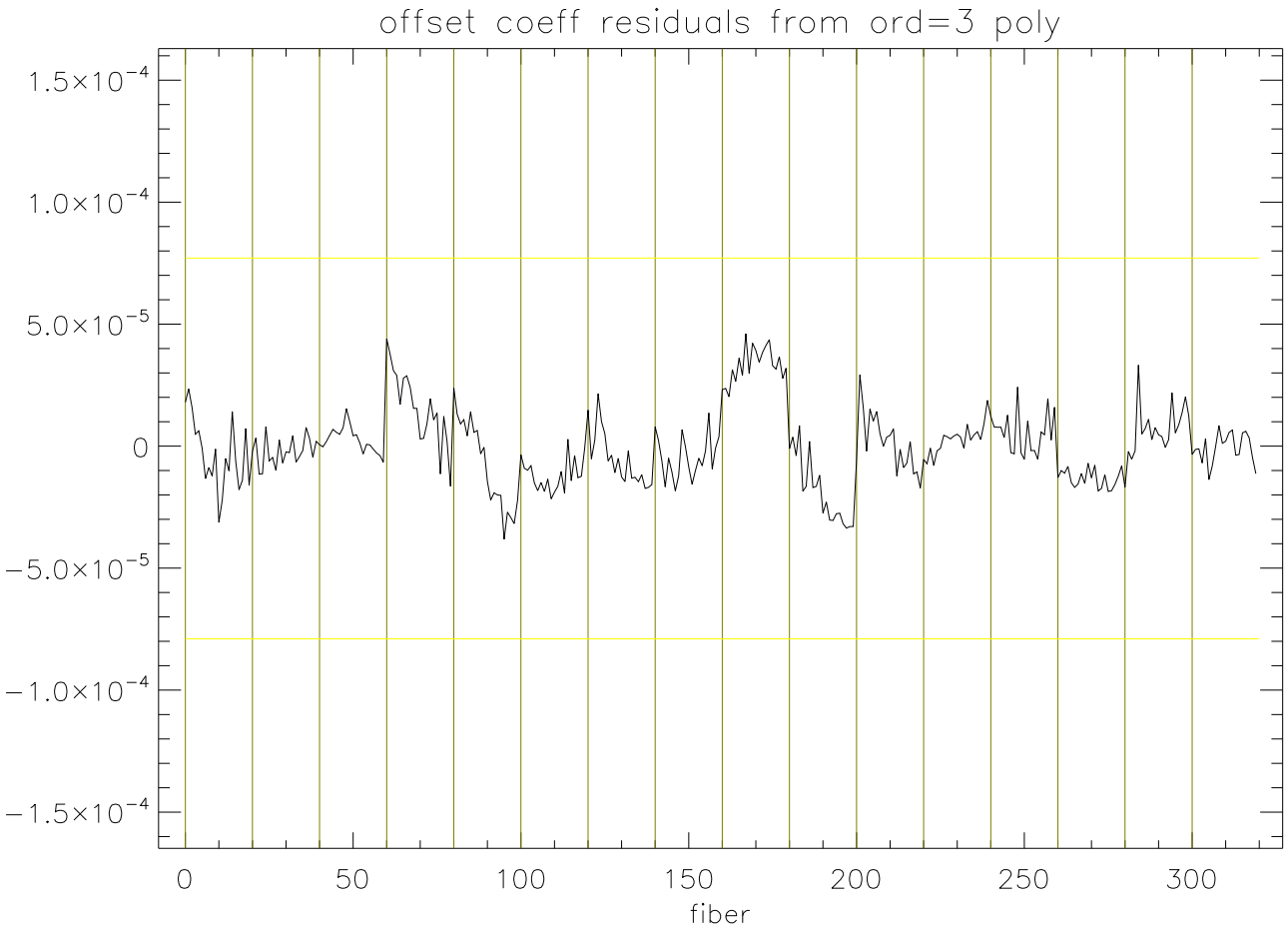

Number of sky fibers = 15
PLATE=0655 MJD=52162 sdR-r1-00010860.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

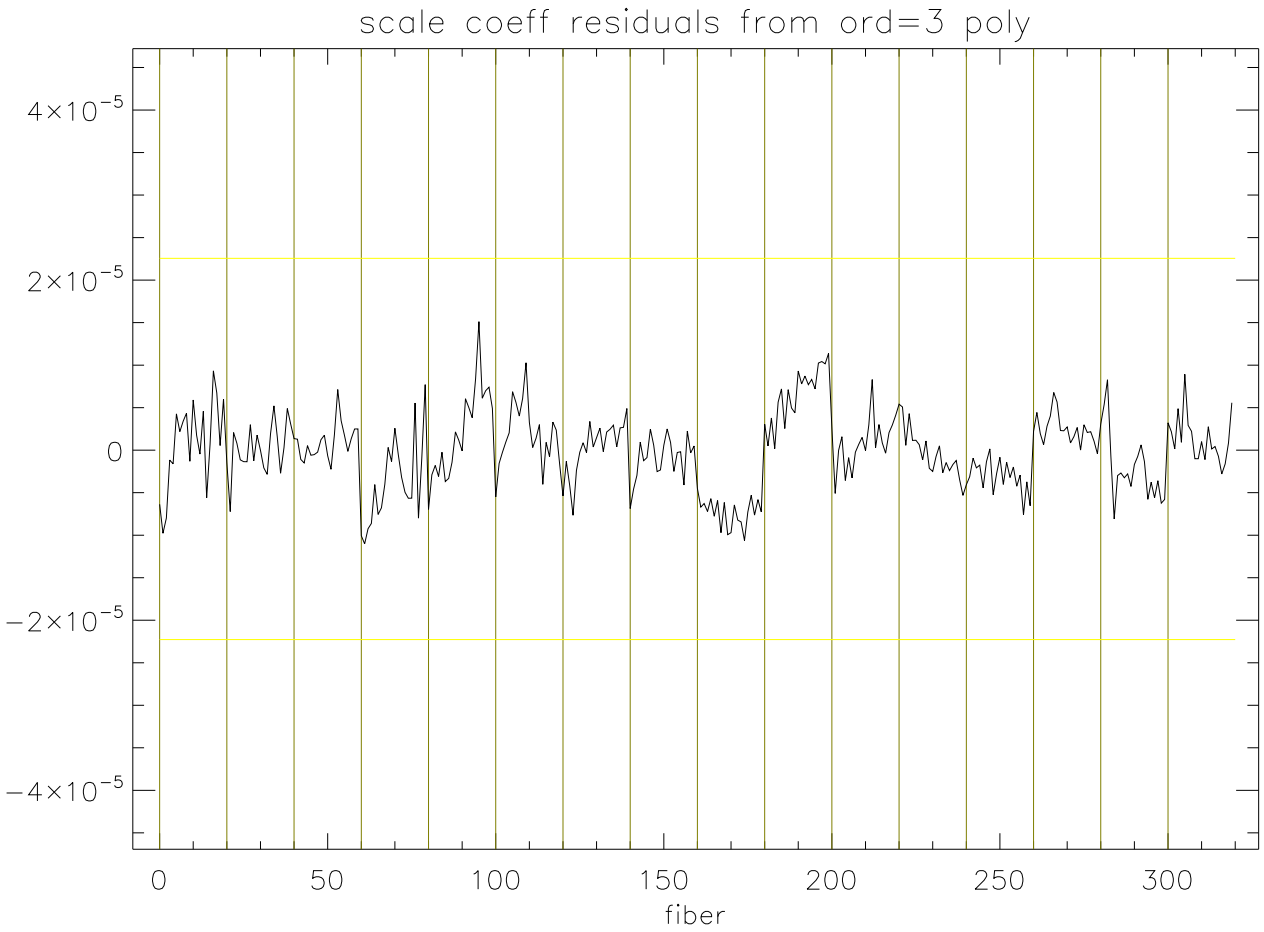

PLATE=0655 MJD=52162 sdR-r1-00010860.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 5.27 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

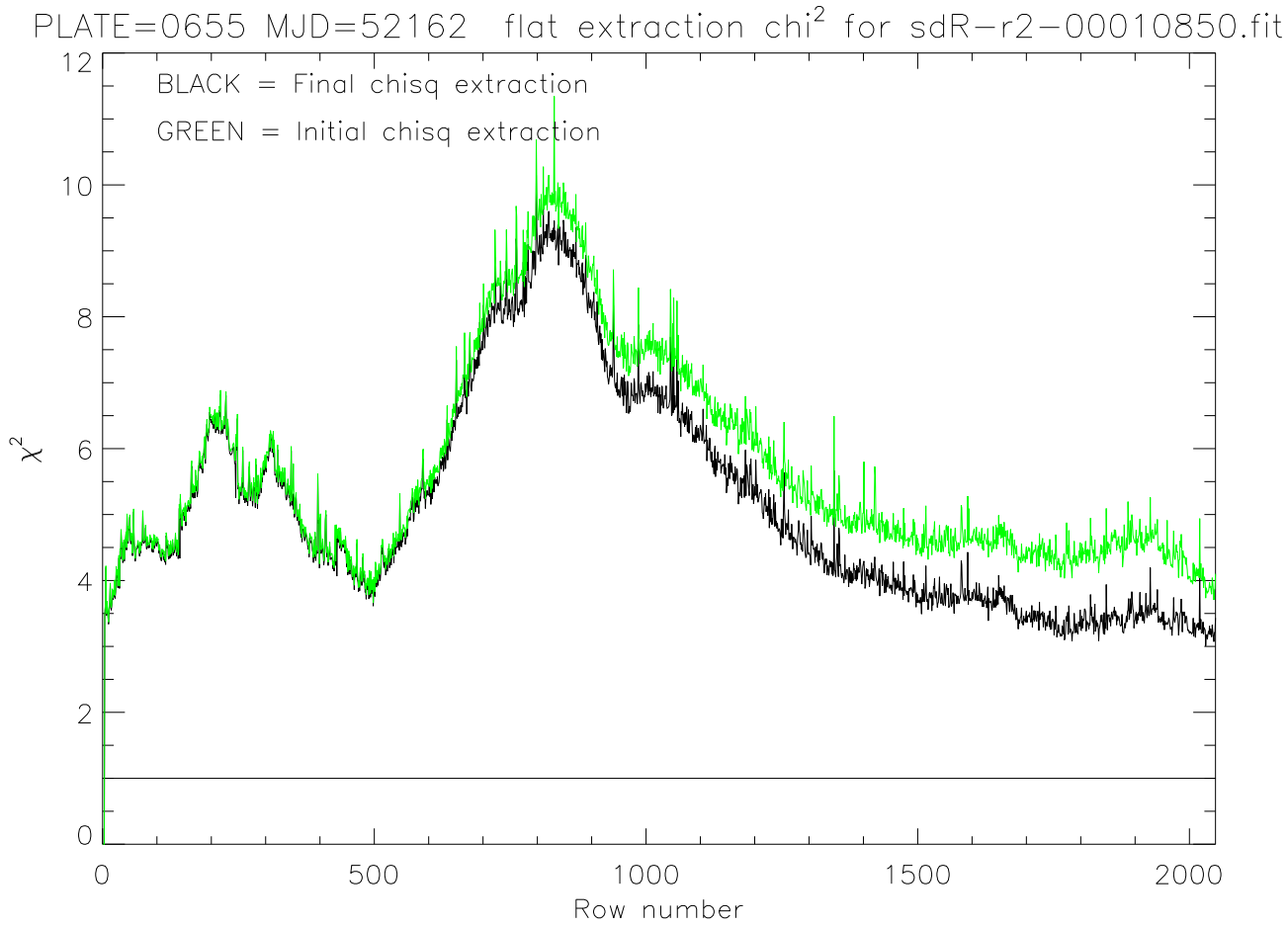

PLATE=0655 MJD=52162 sdR-r1-00010860.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 4.65 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

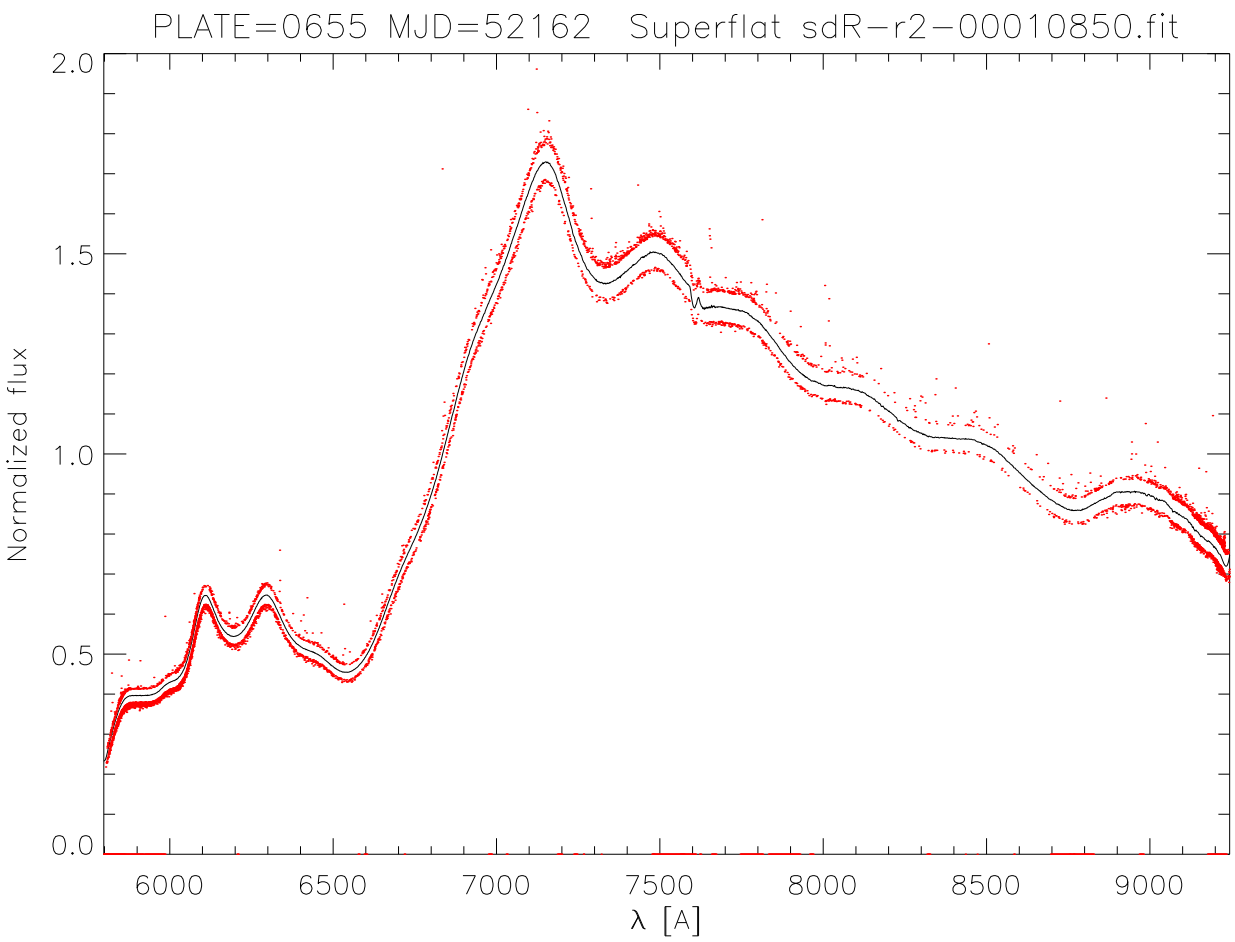

offset coeff residuals from ord=3 poly
1.5×10^-4
1.0×10^-4
5.0×10^-5
0
−5.0×10^-5
−1.0×10^-4
−1.5×10^-4
0
50
100
150
200
250
300
fiber

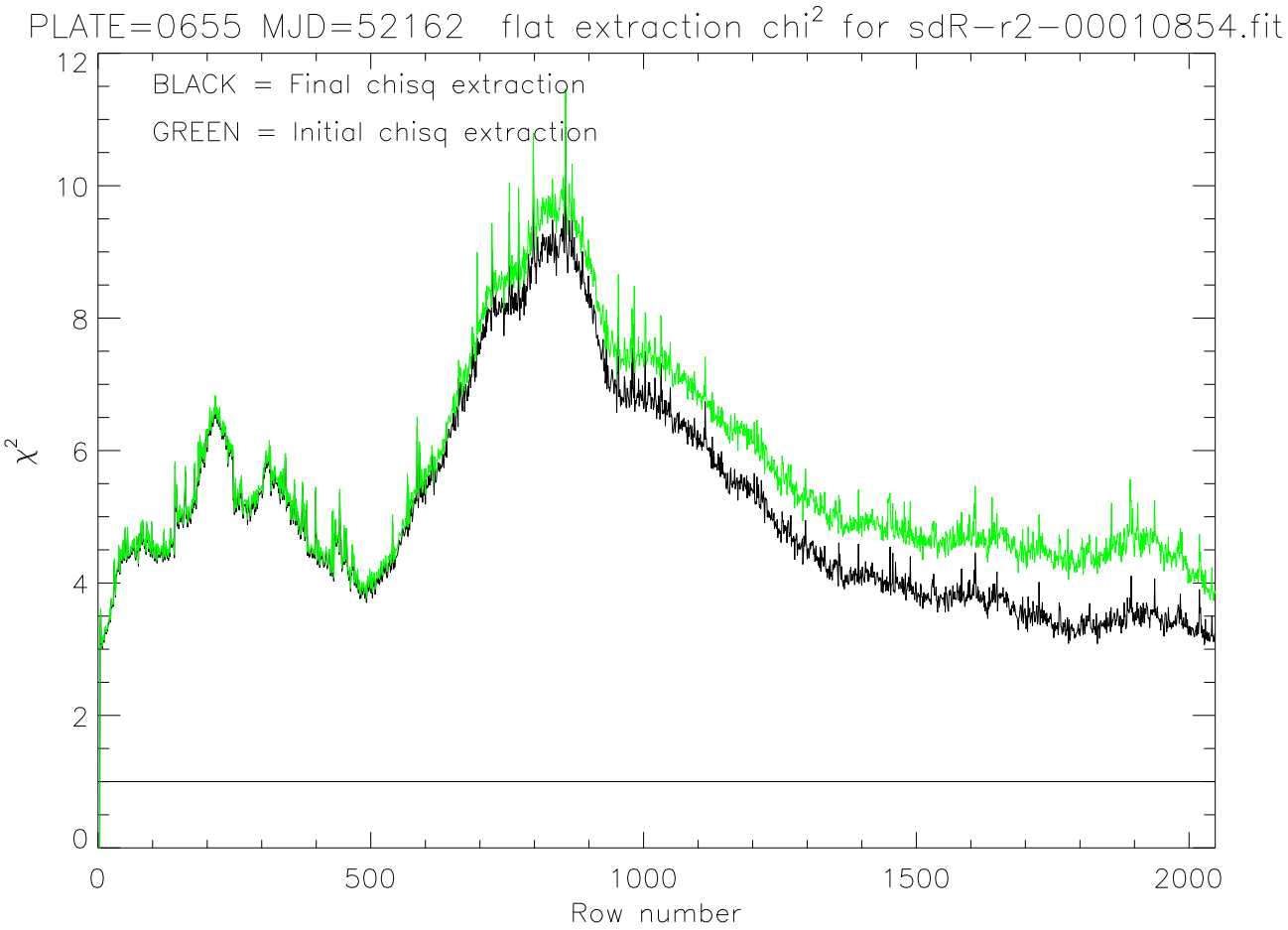

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

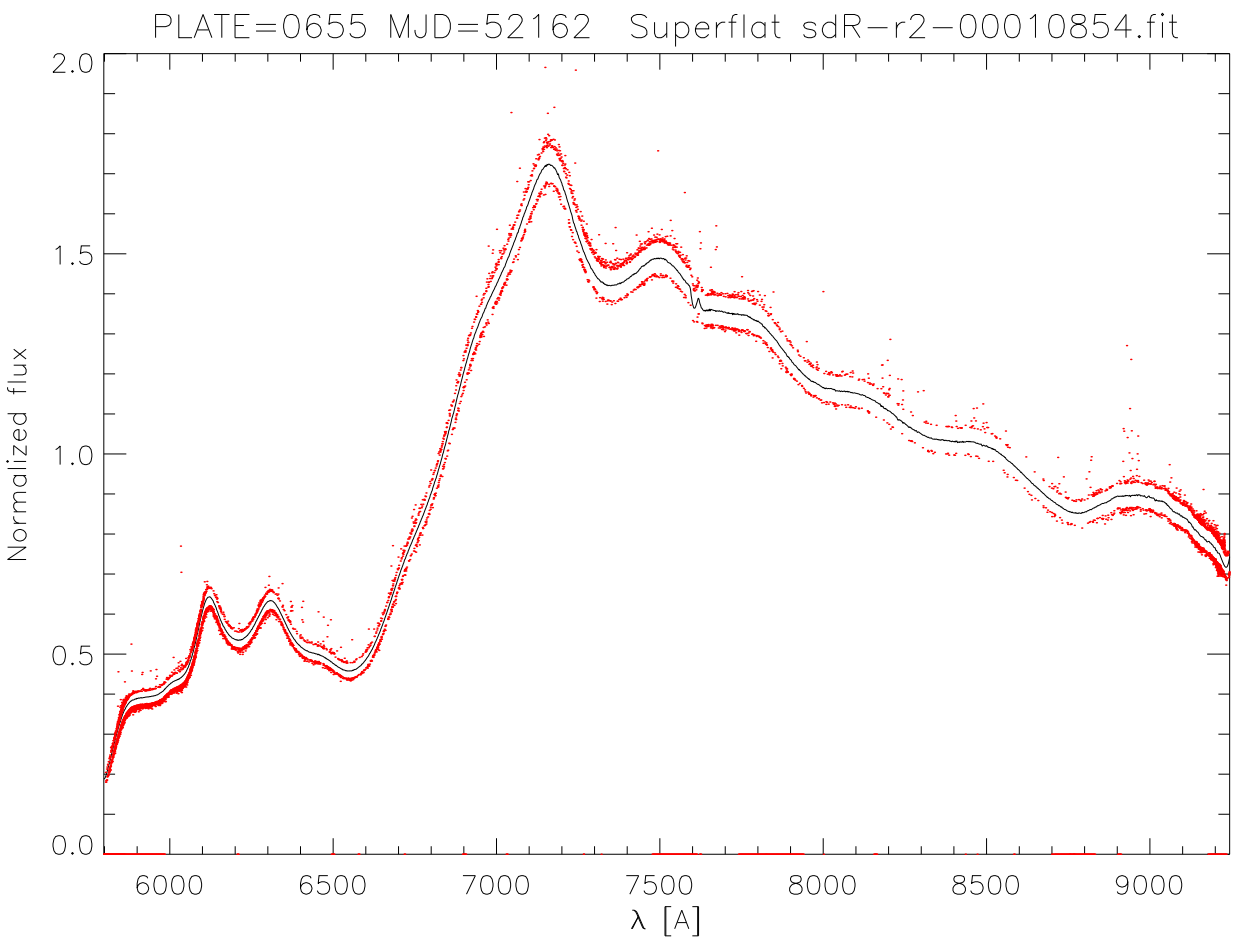

offset coeff residuals from ord=3 poly
1.5×10^-4
1.0×10^-4
5.0×10^-5
0
−5.0×10^-5
−1.0×10^-4
−1.5×10^-4
0
50
100
150
200
250
300
fiber

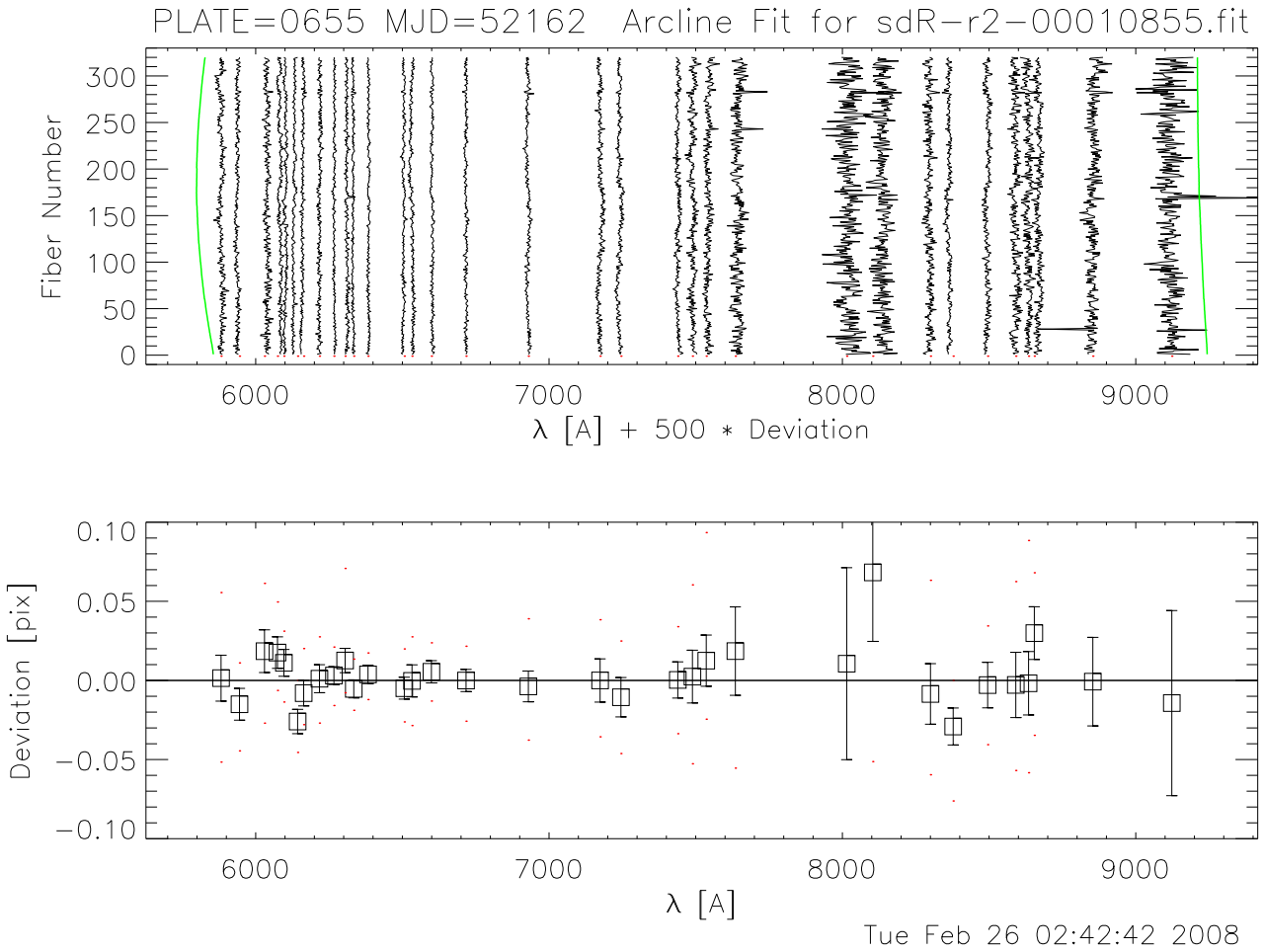

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

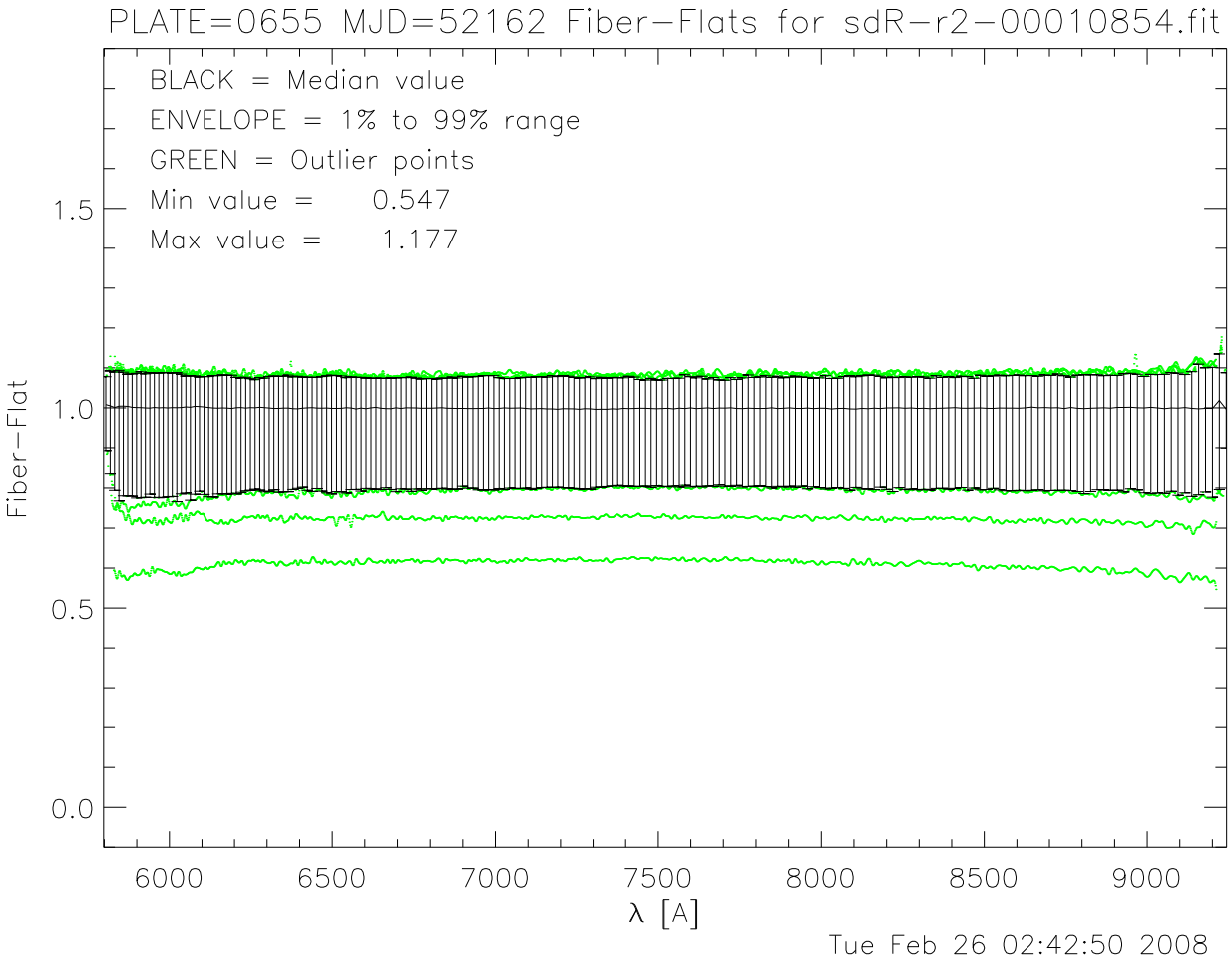

PLATE=0655 MJD=52162 flat extraction chi^2 for sdR−r2−00010850.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

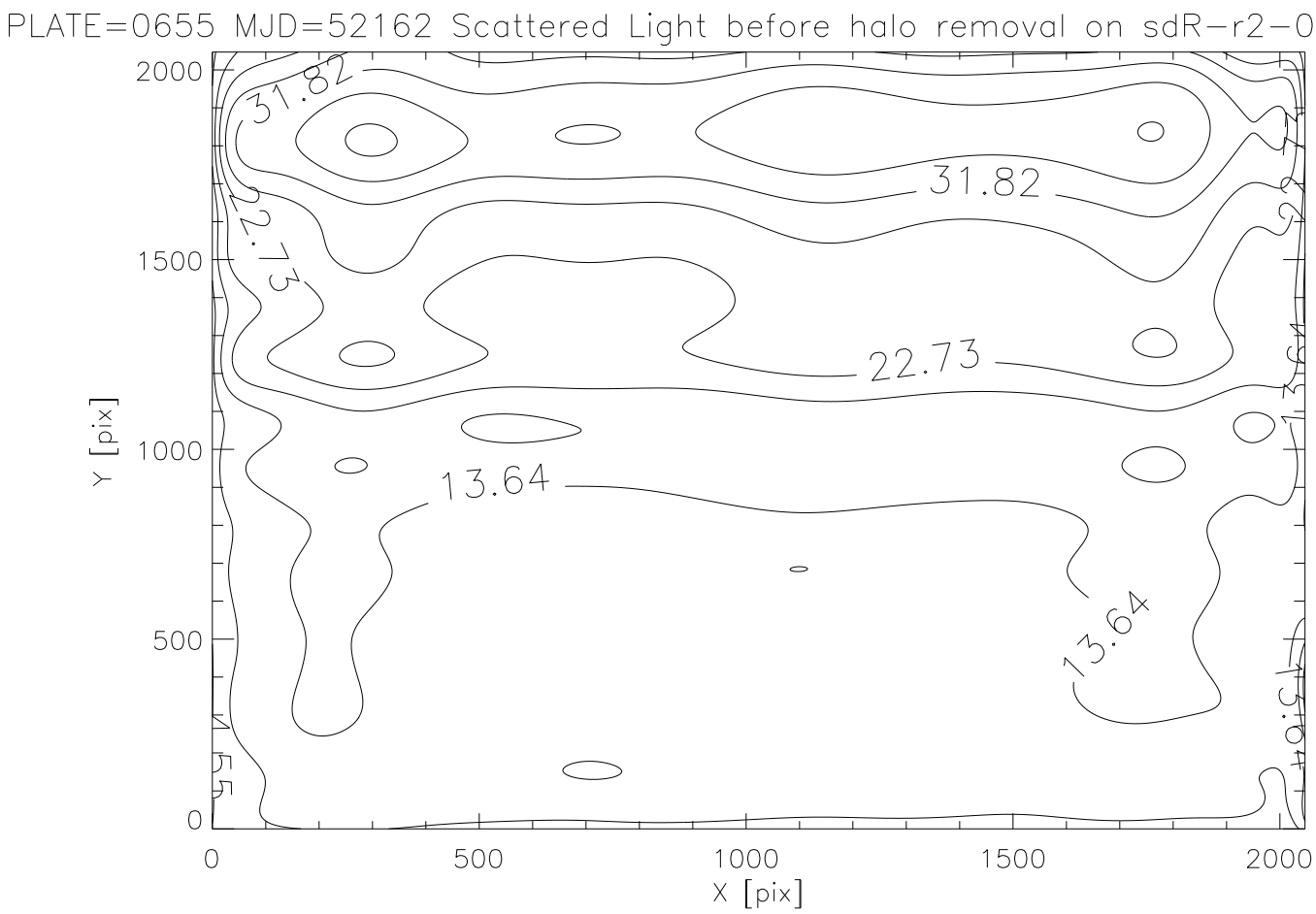

PLATE=0655 MJD=52162 Superflat sdR-r2-00010850.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

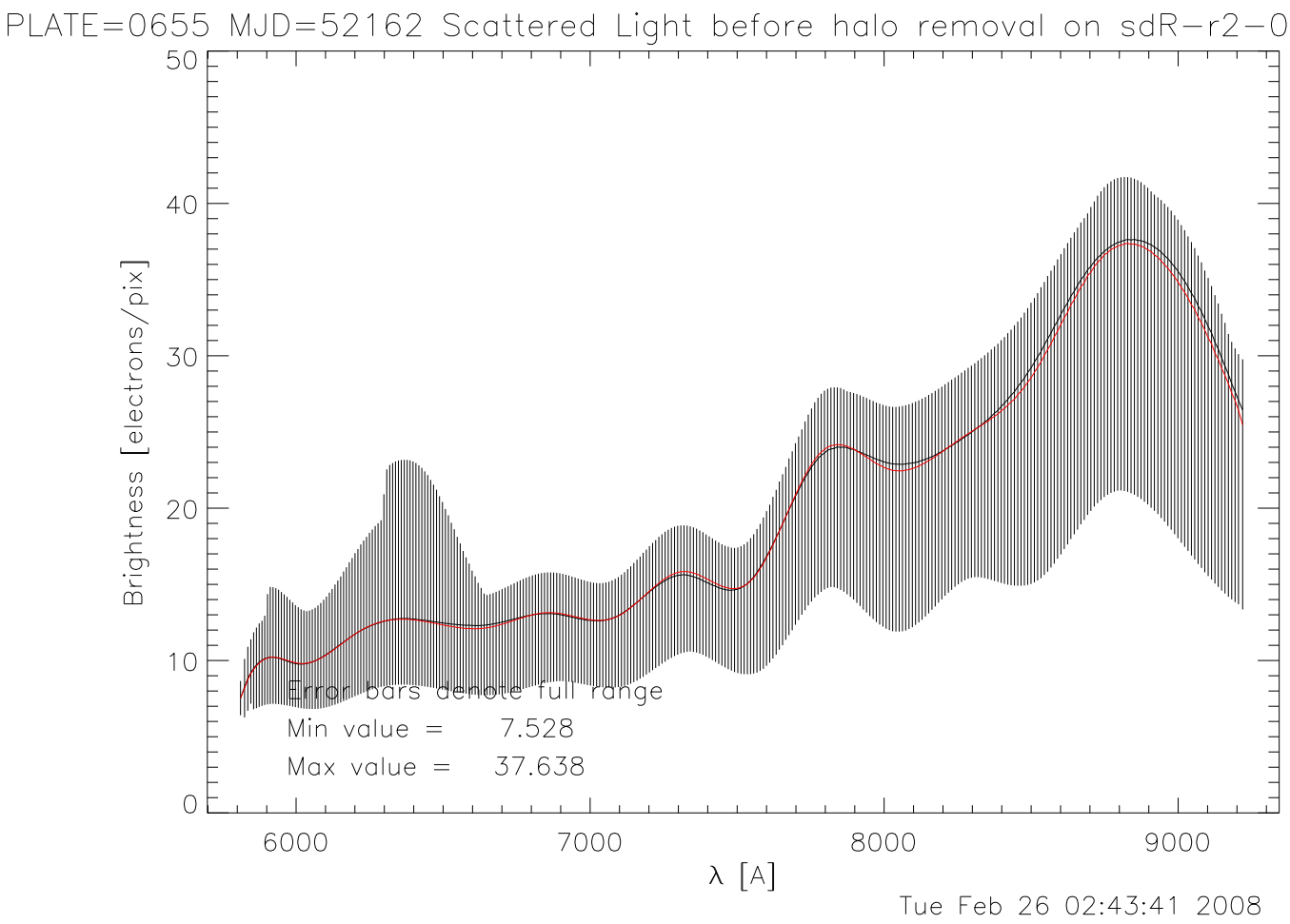

PLATE=0655 MJD=52162 flat extraction chi^2 for sdR−r2−00010854.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

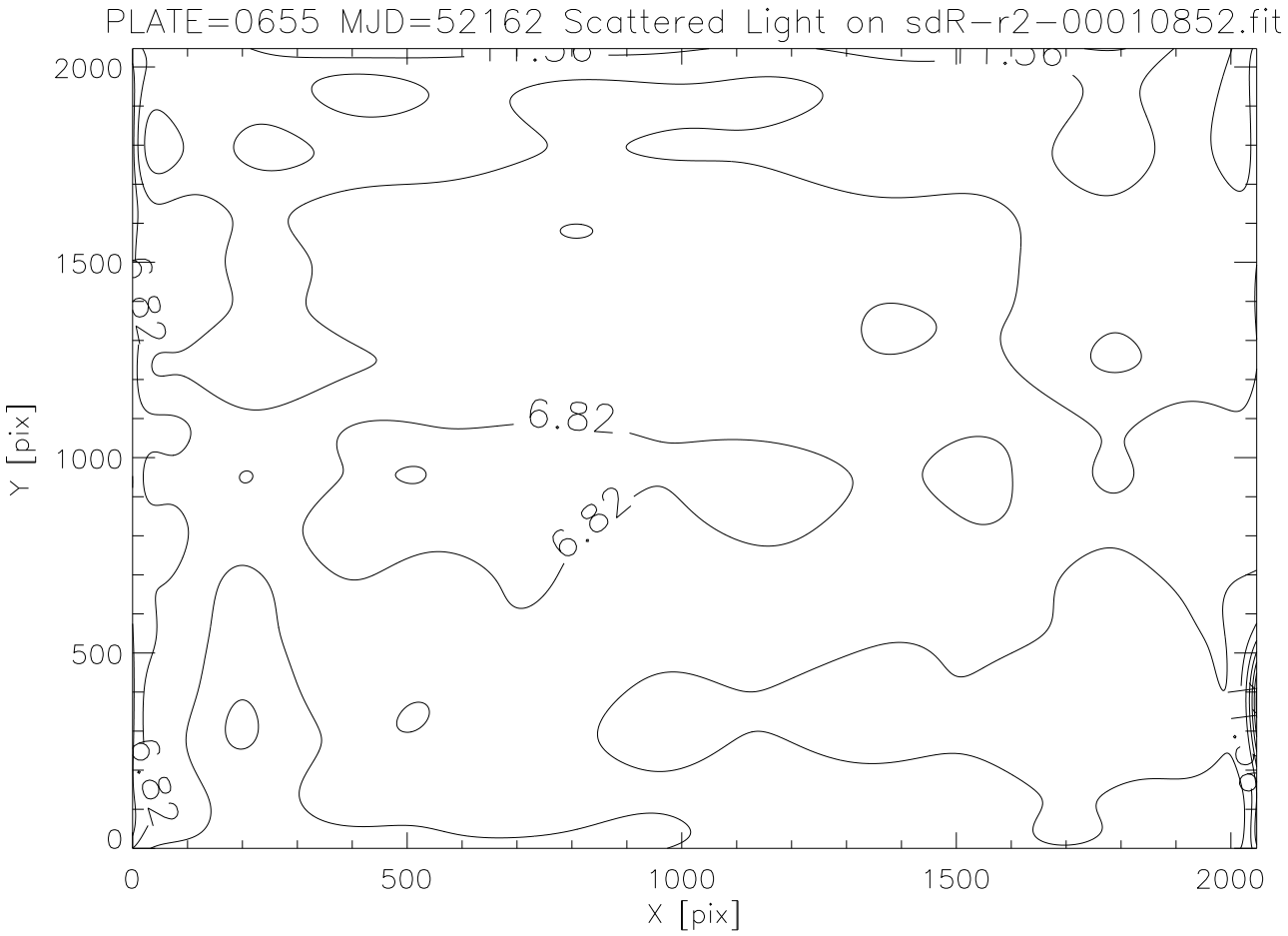

PLATE=0655 MJD=52162 Superflat sdR-r2-00010854.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

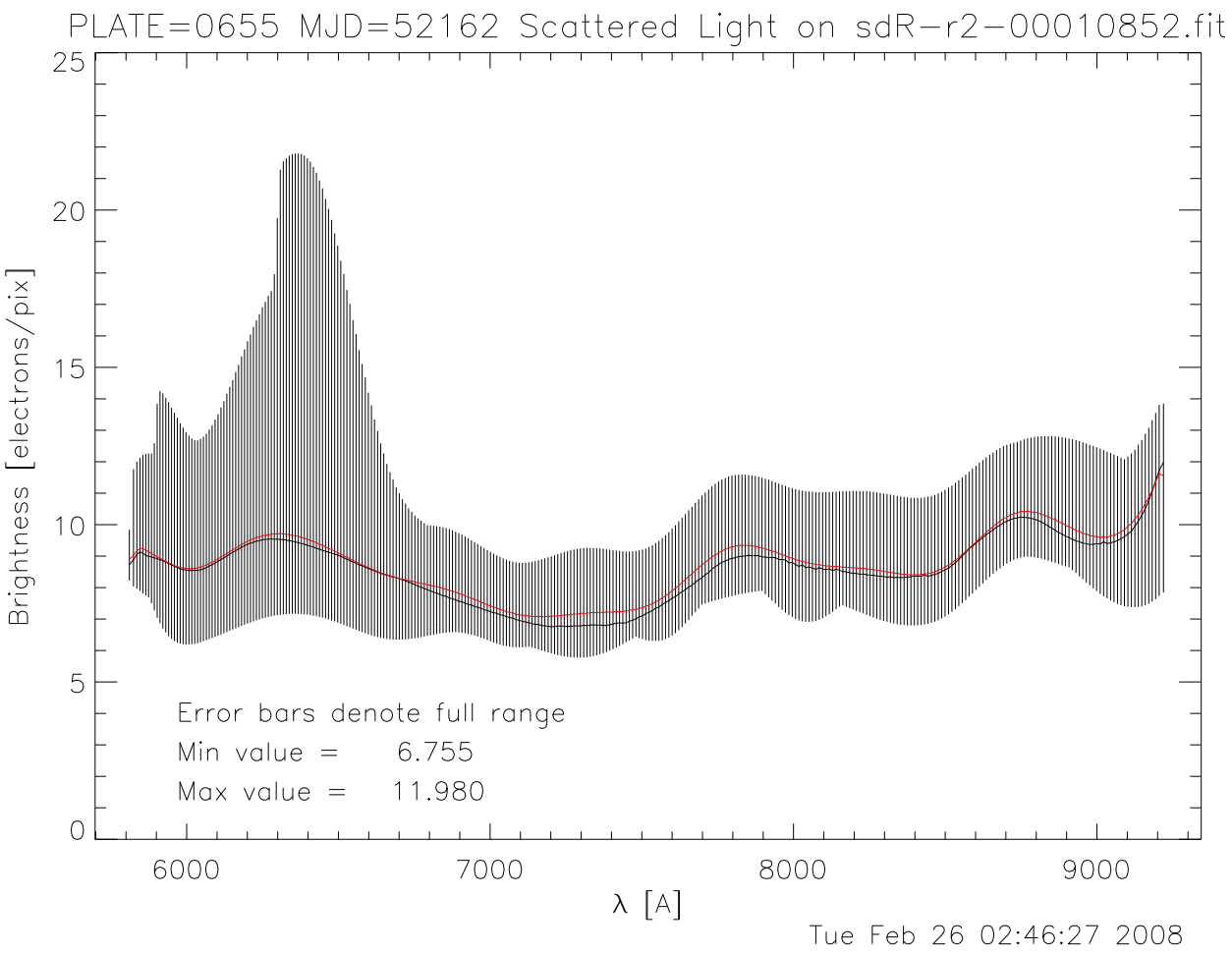

PLATE=0655 MJD=52162 Arcline Fit for sdR-r2-00010855.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Tue Feb 26 02:42:42 2008

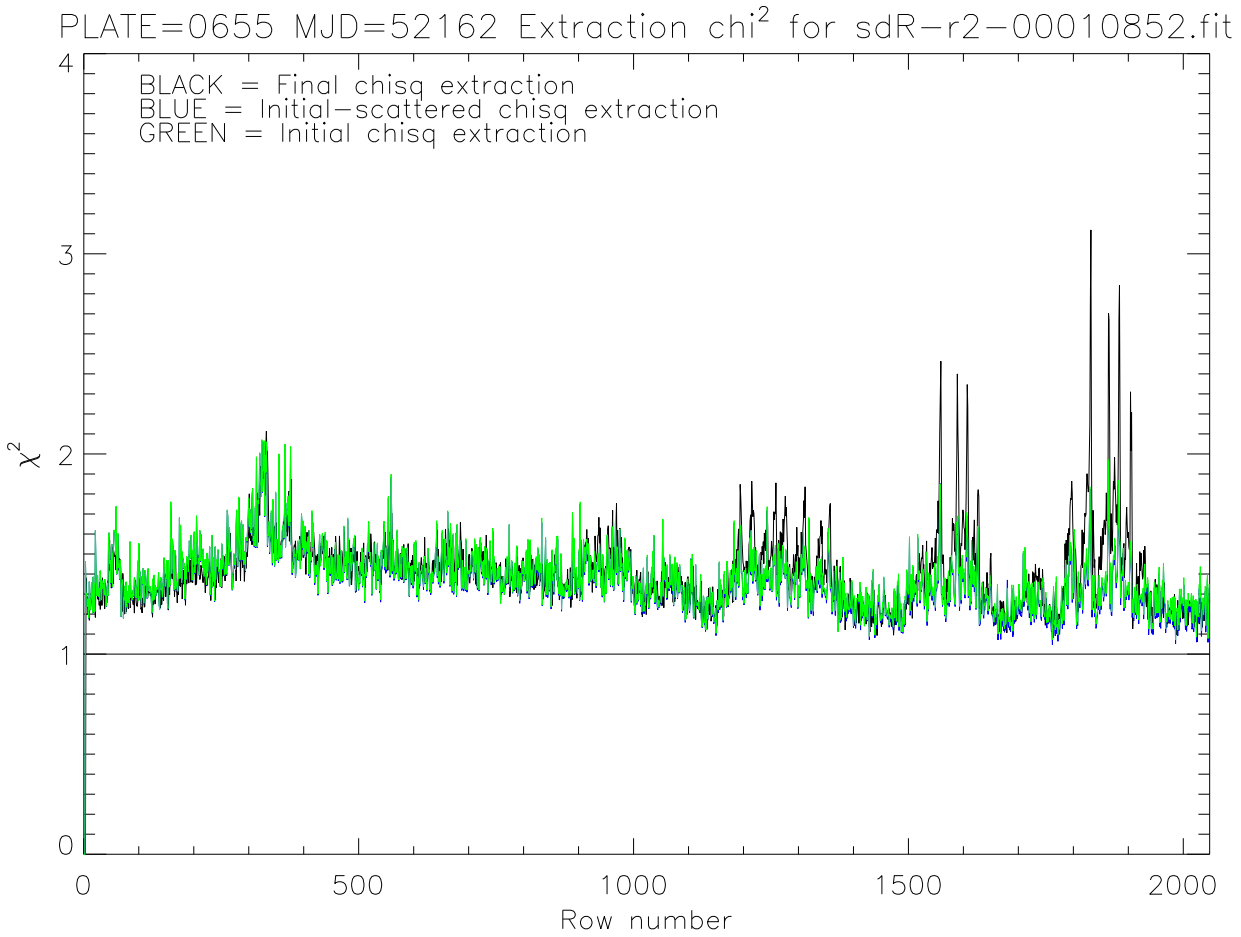

PLATE=0655 MJD=52162 Fiber−Flats for sdR−r2−00010854.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.547
Max value = 1.177
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Tue Feb 26 02:42:50 2008

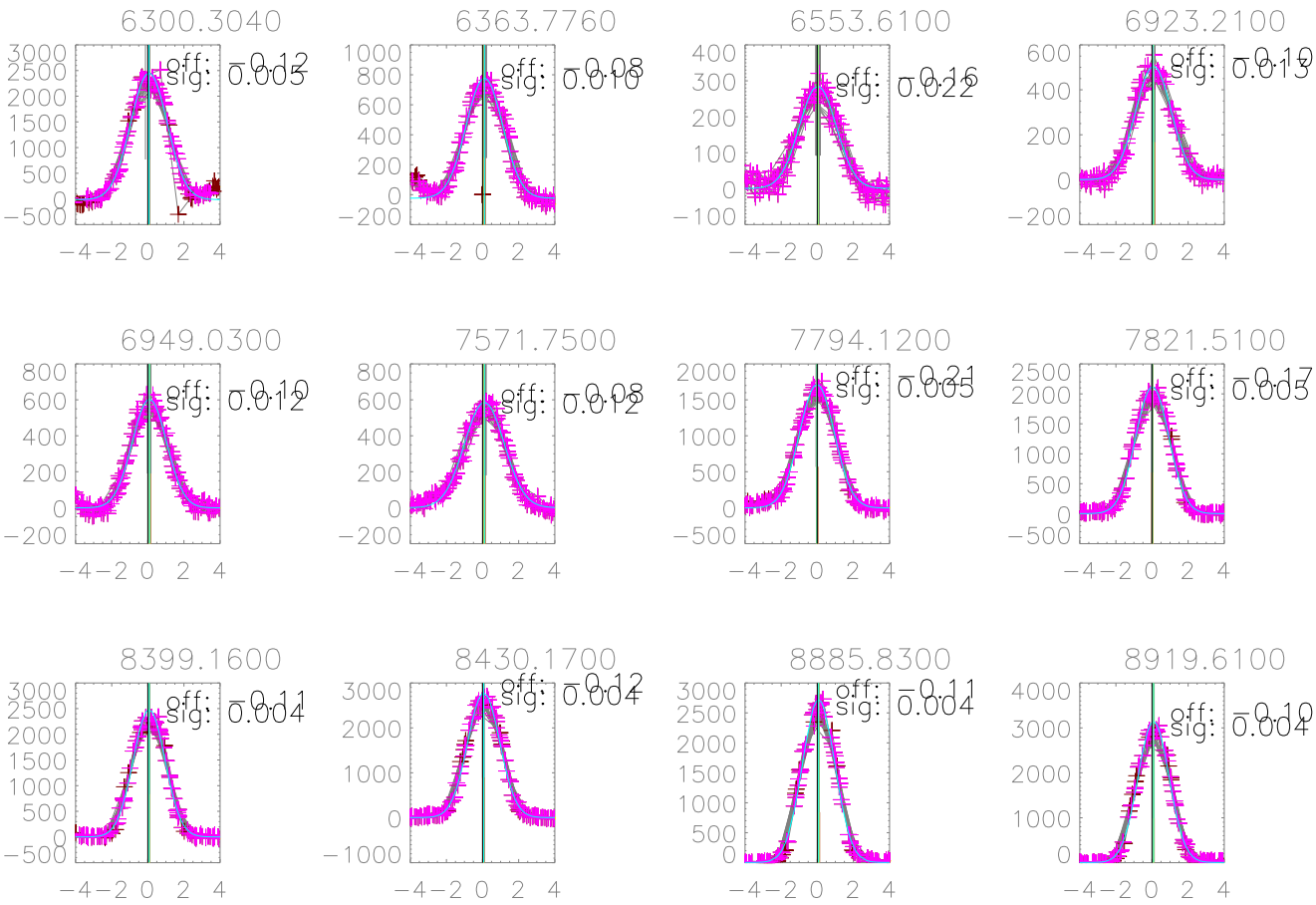

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-r2-00010852.fi
31.82
22.73
13.64
Y [pix]
X [pix]
0
500
1000
1500
2000

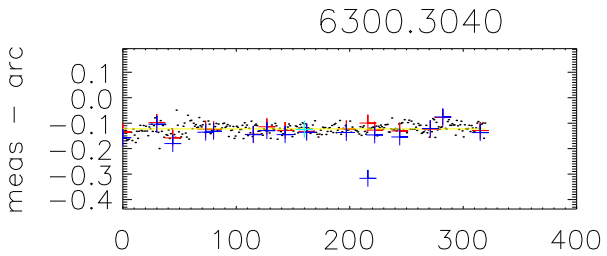

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-r2-00010852.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.528
Max value = 37.638
Tue Feb 26 02:43:41 2008

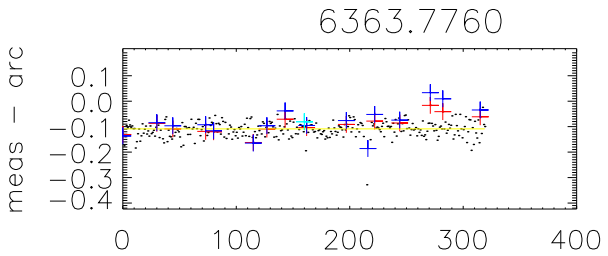

PLATE=0655 MJD=52162 Scattered Light on sdR-r2-00010852.fit
11.36
11.36
6.82
6.82
6.82
6.82
11.36
Y [pix]
X [pix]
0
500
1000
1500
2000

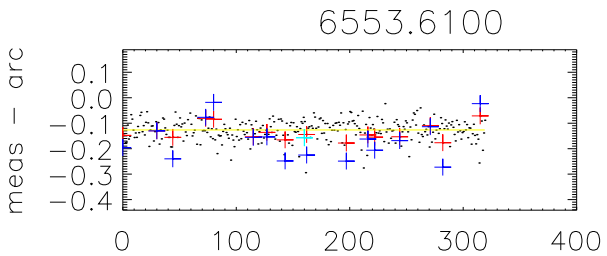

PLATE=0655 MJD=52162 Scattered Light on sdR-r2-00010852.fit
Brightness [electrons/pix]
25
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 6.755
Max value = 11.980
Tue Feb 26 02:46:27 2008

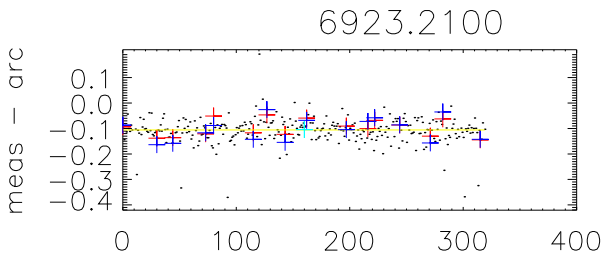

PLATE=0655 MJD=52162 Extraction chi^2 for sdR−r2−00010852.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

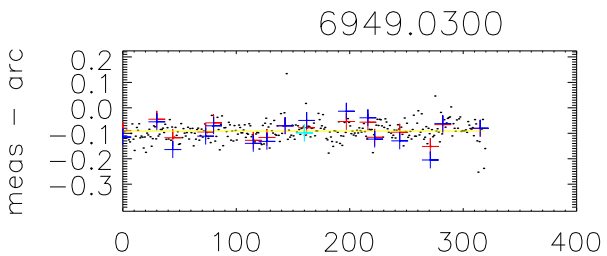

6300.3040
off: −0.12
sig: 0.005
6363.7760
off: −0.08
sig: 0.010
6553.6100
off: −0.16
sig: 0.022
6923.2100
off: −0.10
sig: 0.013
6949.0300
off: −0.10
sig: 0.012
7571.7500
off: −0.08
sig: 0.012
7794.1200
off: −0.21
sig: 0.005
7821.5100
off: −0.17
sig: 0.005
8399.1600
off: −0.11
sig: 0.004
8430.1700
off: −0.12
sig: 0.004
8885.8300
off: −0.11
sig: 0.004
8919.6100
off: −0.10
sig: 0.004

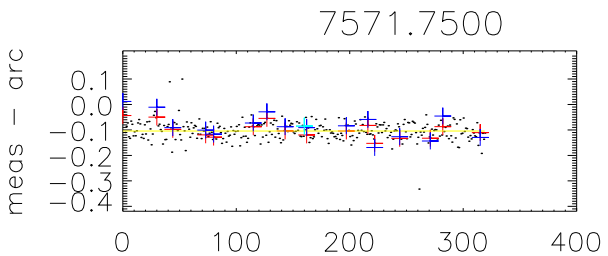

6300.3040
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

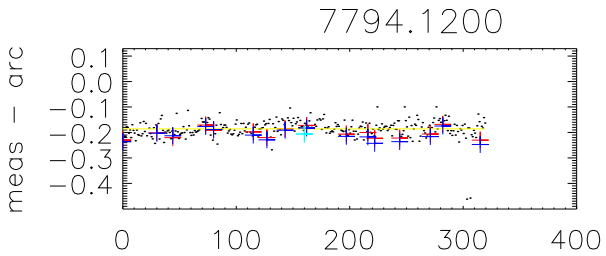

6363.7760
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

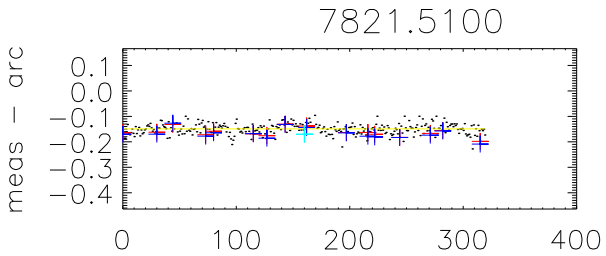

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

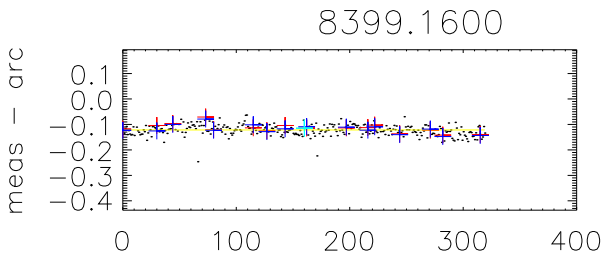

6923.2100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

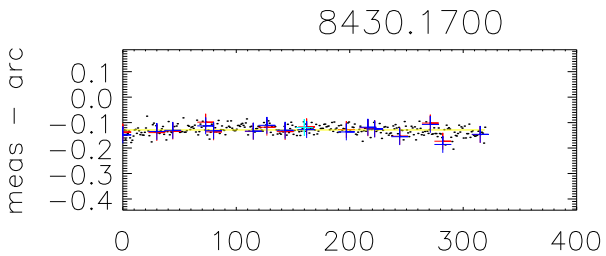

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

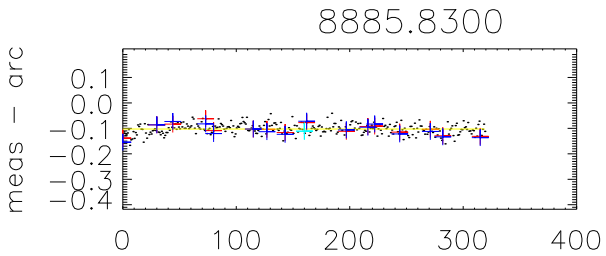

7571.7500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

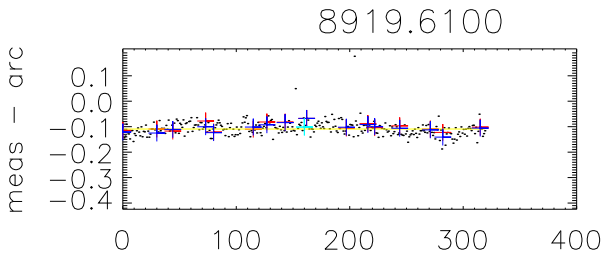

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

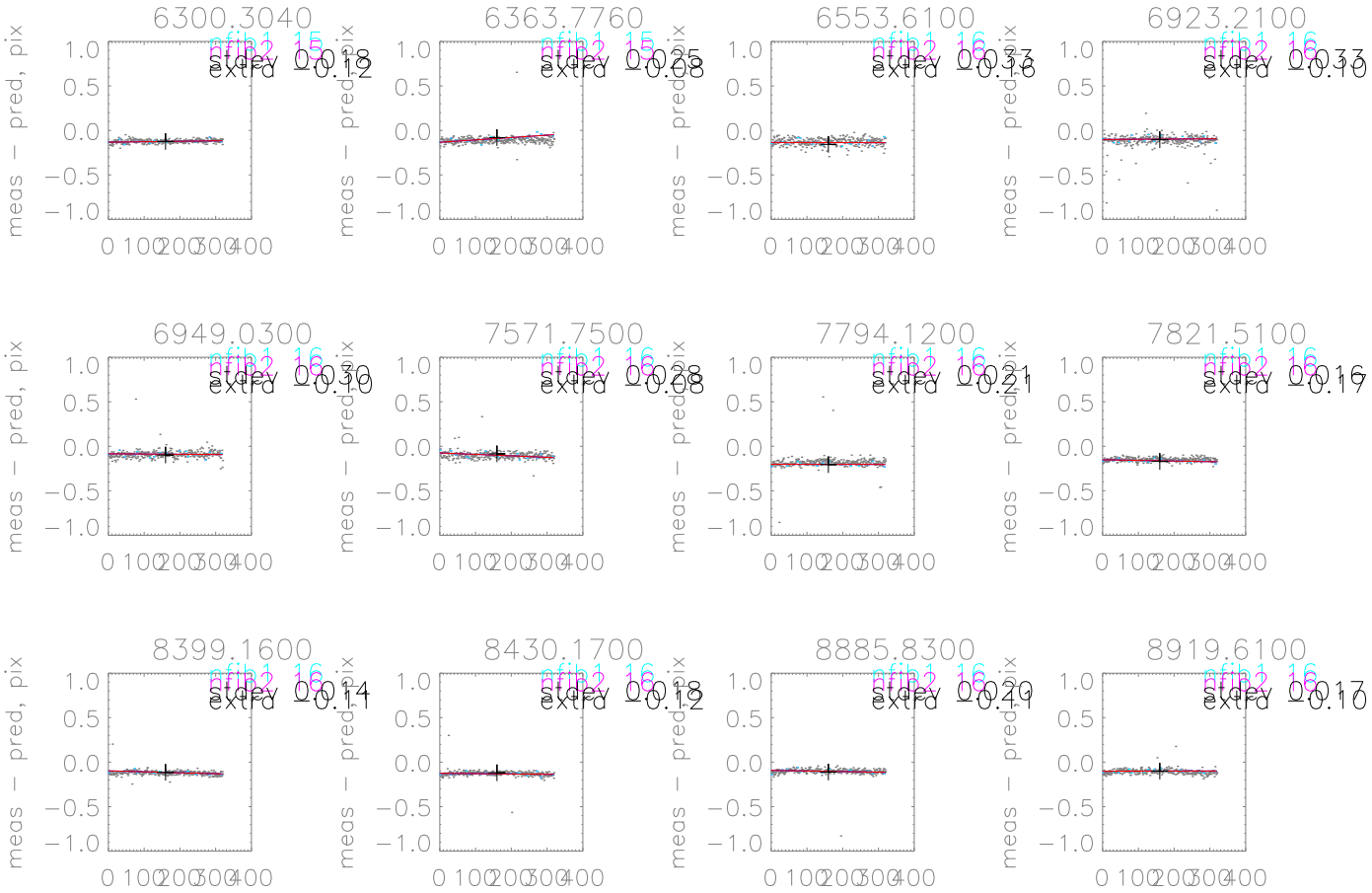

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

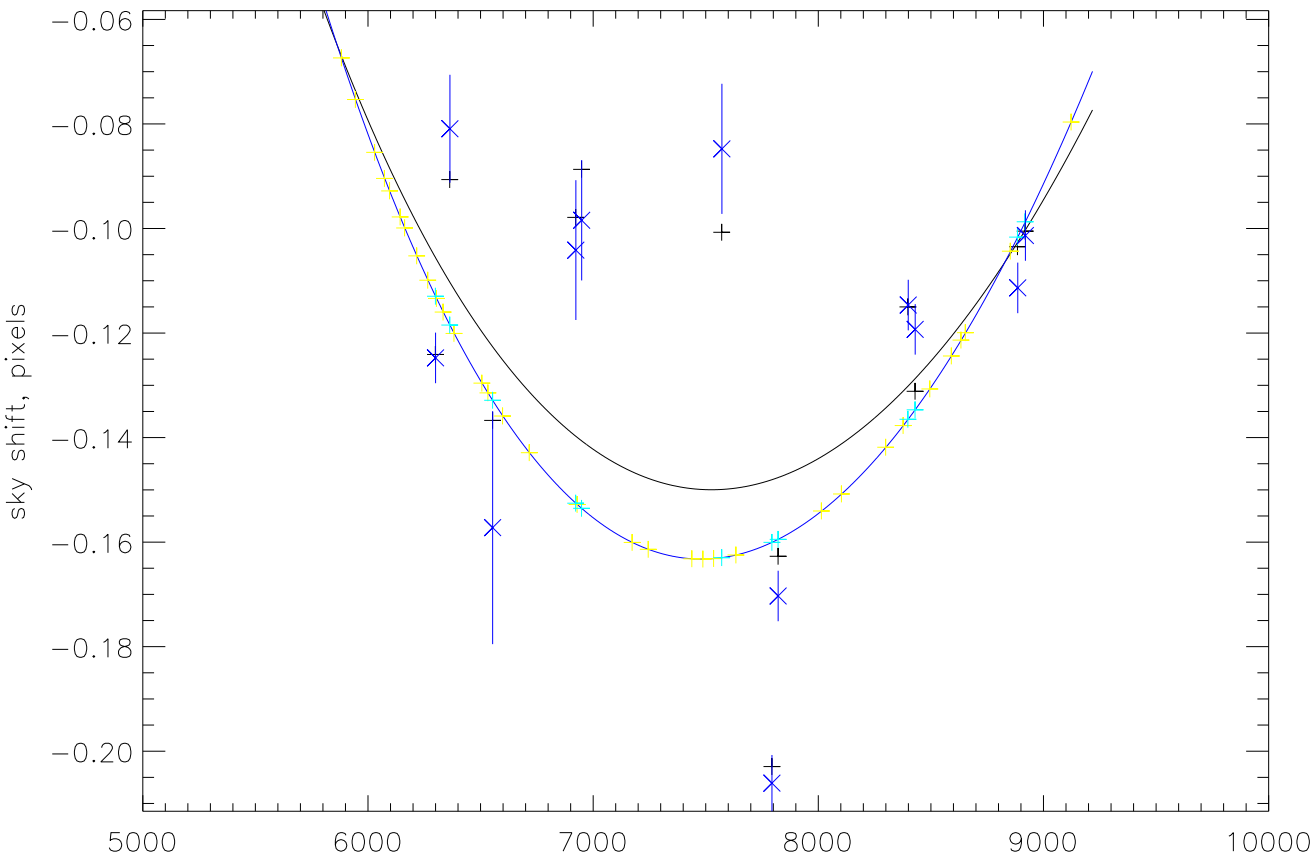

8399.1600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

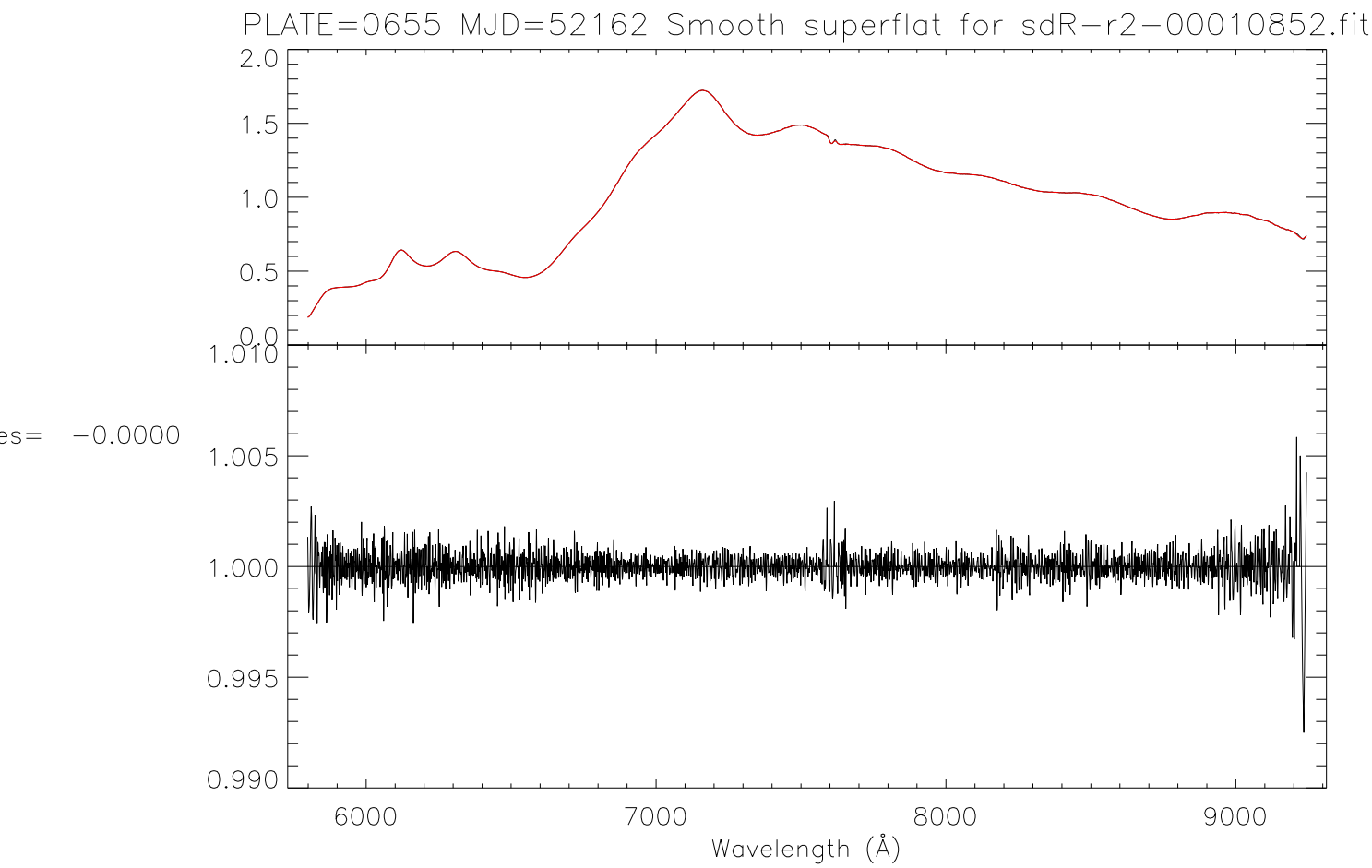

8430.1700
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


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

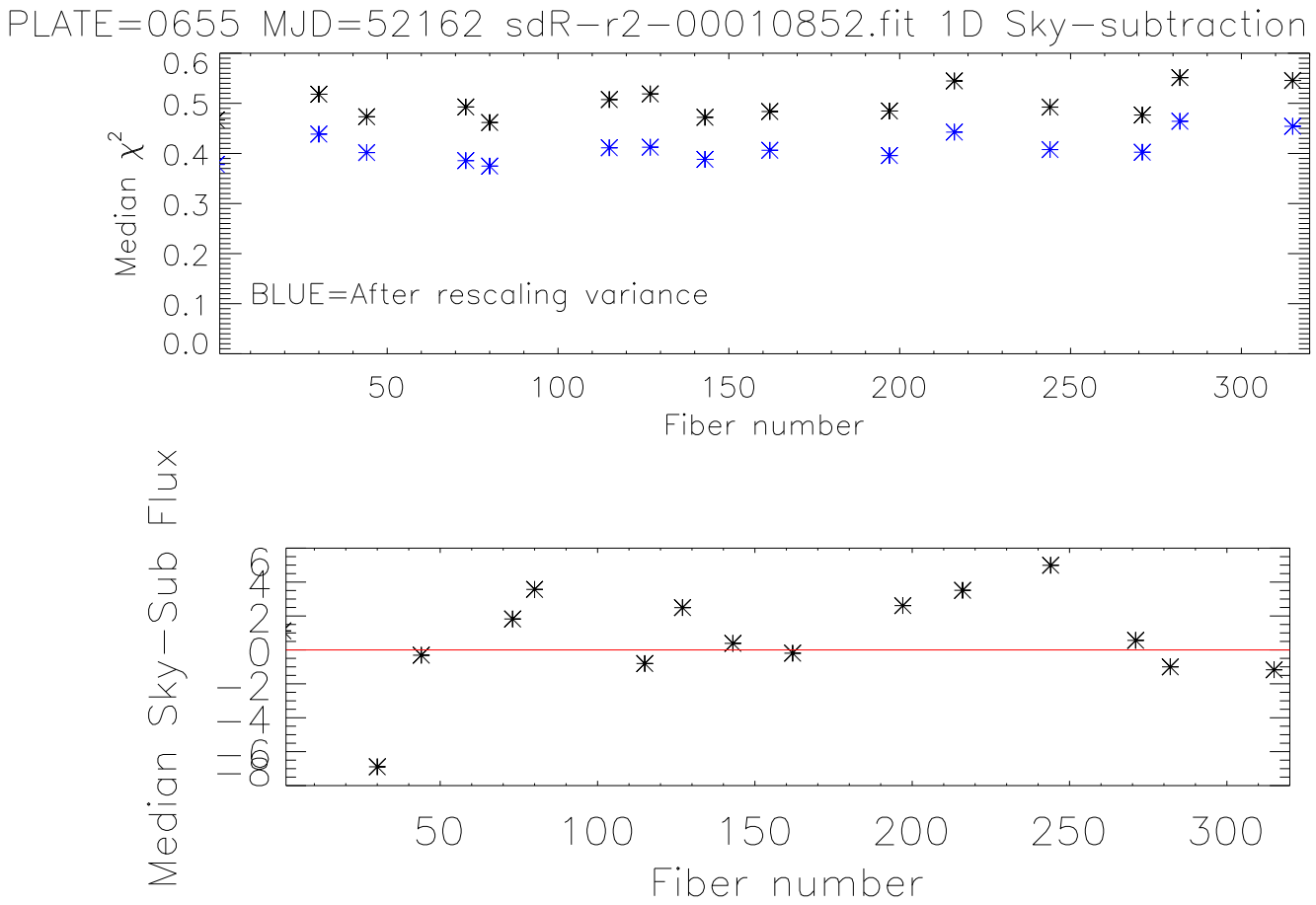

8919.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

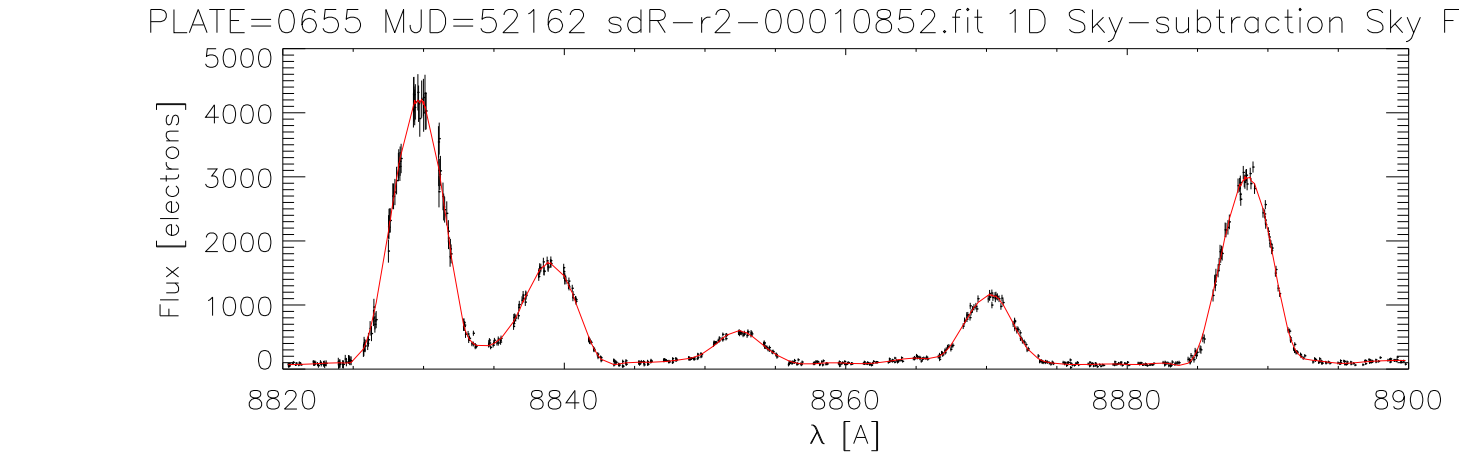

6300.3040
stdev 0.18
extra 0.12
6363.7760
stdev 0.25
extra 0.08
6553.6100
stdev 0.33
extra 0.16
6923.2100
stdev 0.33
extra 0.10
6949.0300
stdev 0.30
extra 0.10
7571.7500
stdev 0.28
extra 0.08
7794.1200
stdev 0.21
extra 0.21
7821.5100
stdev 0.16
extra 0.17
8399.1600
stdev 0.14
extra 0.11
8430.1700
stdev 0.18
extra 0.12
8885.8300
stdev 0.20
extra 0.41
8919.6100
stdev 0.17
extra 0.10
meas − pred, pix
mfib1 16
mfib2 15
mfib2 16

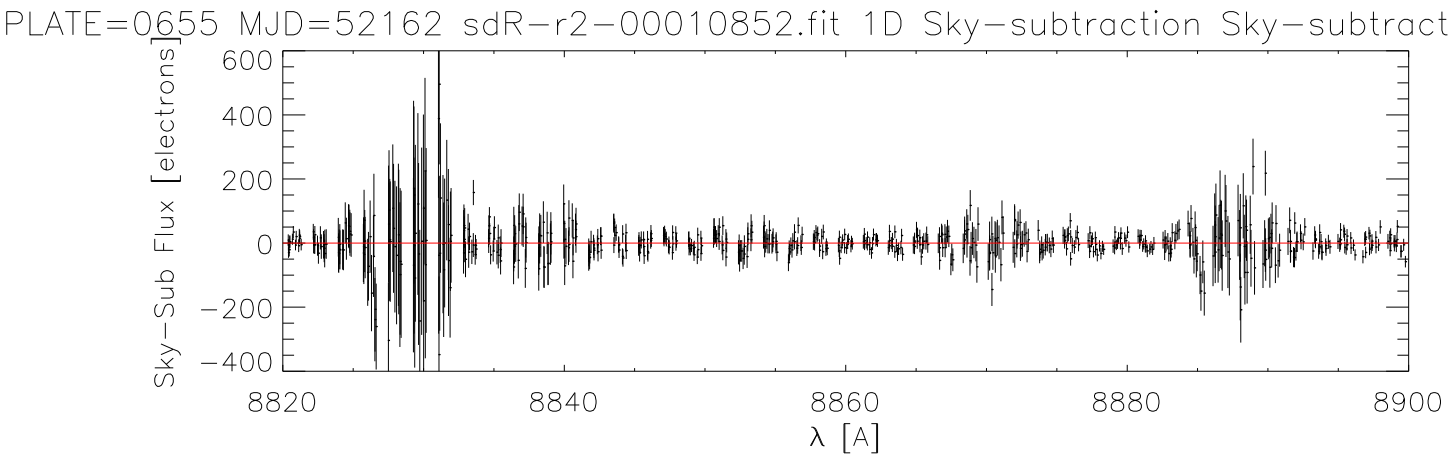

−0.06
−0.08
−0.10
−0.12
−0.14
−0.16
−0.18
−0.20
sky shift, pixels
5000
6000
7000
8000
9000
10000

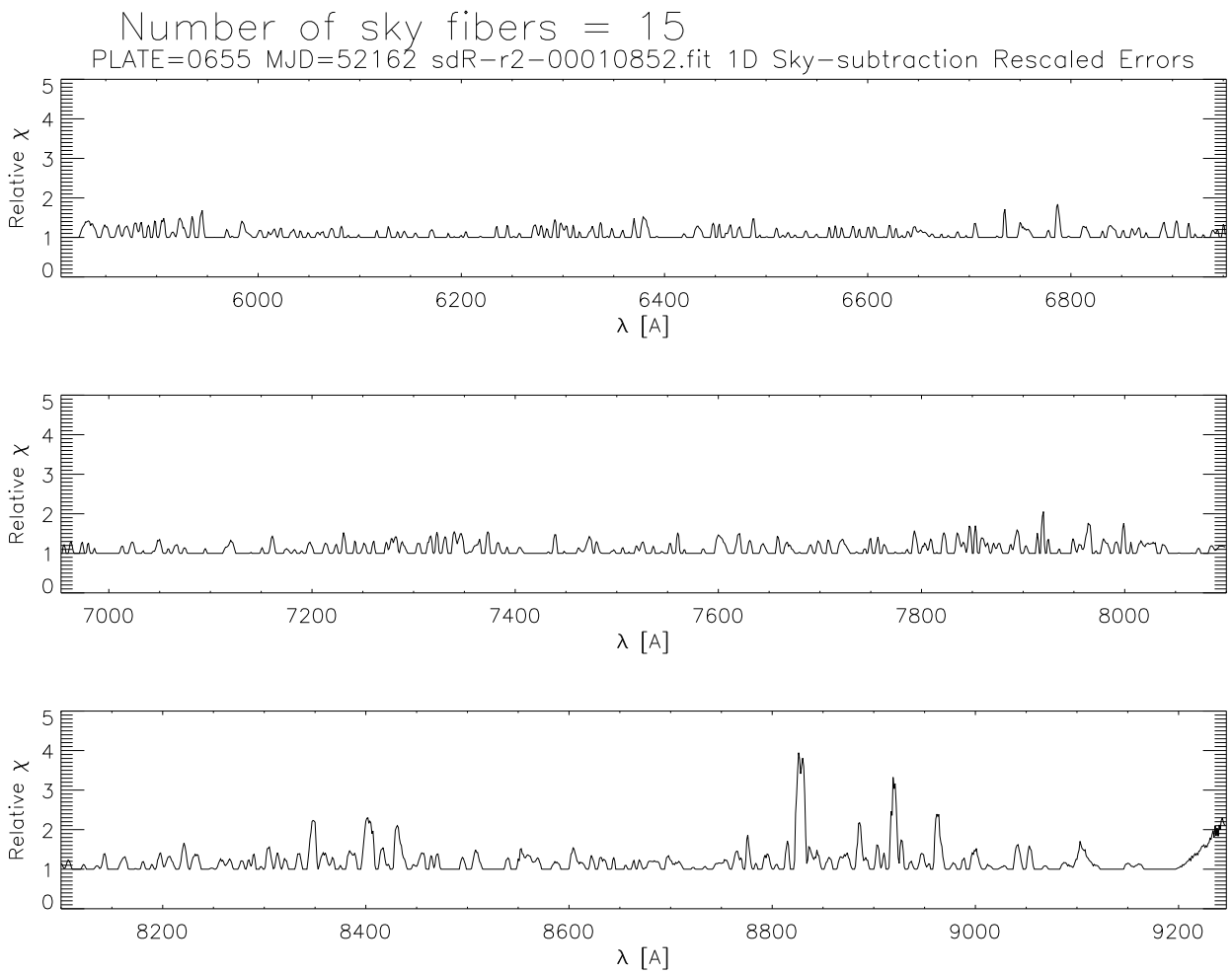

PLATE=0655 MJD=52162 Smooth superflat for sdR-r2-00010852.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

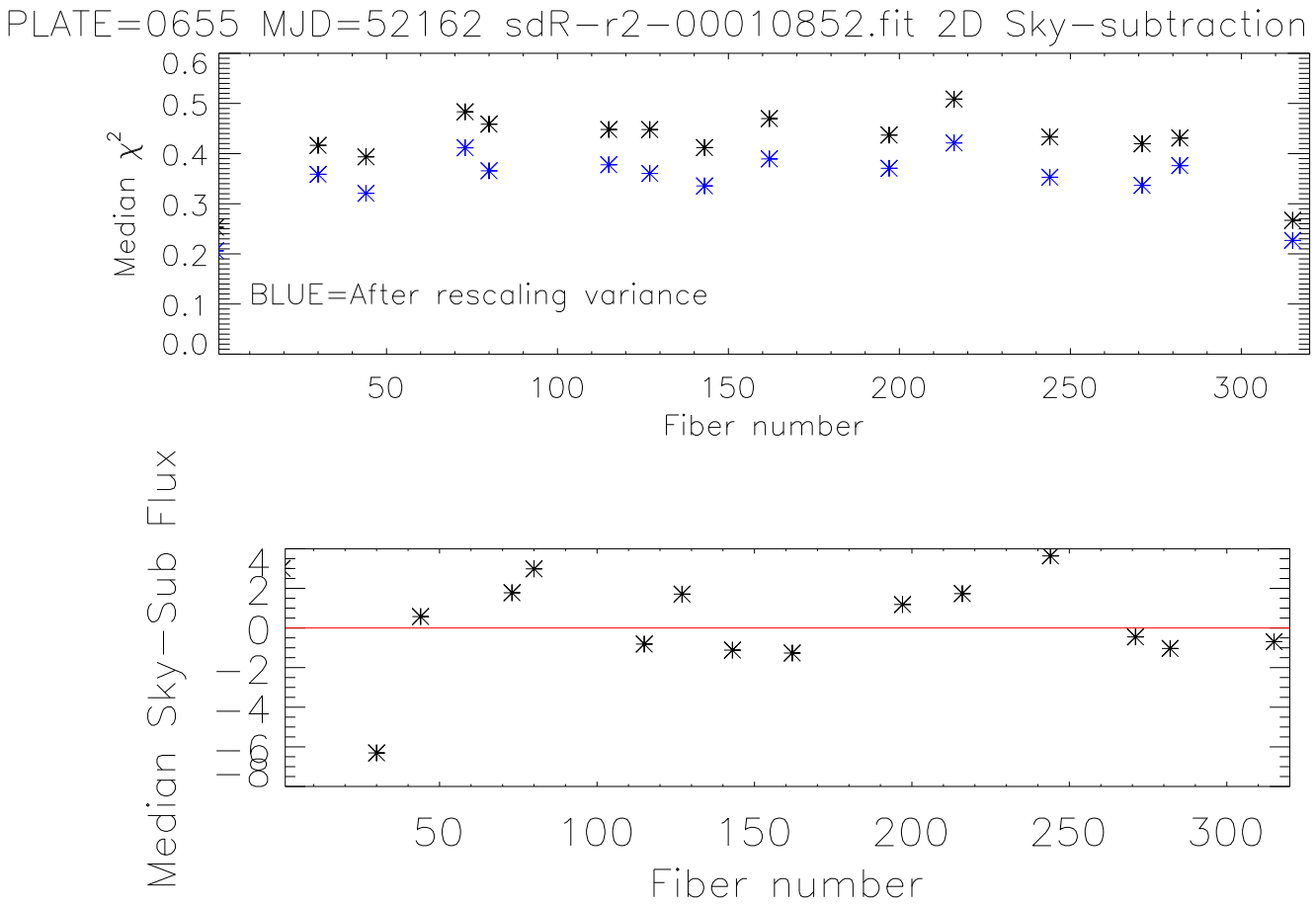
es= −0.0000

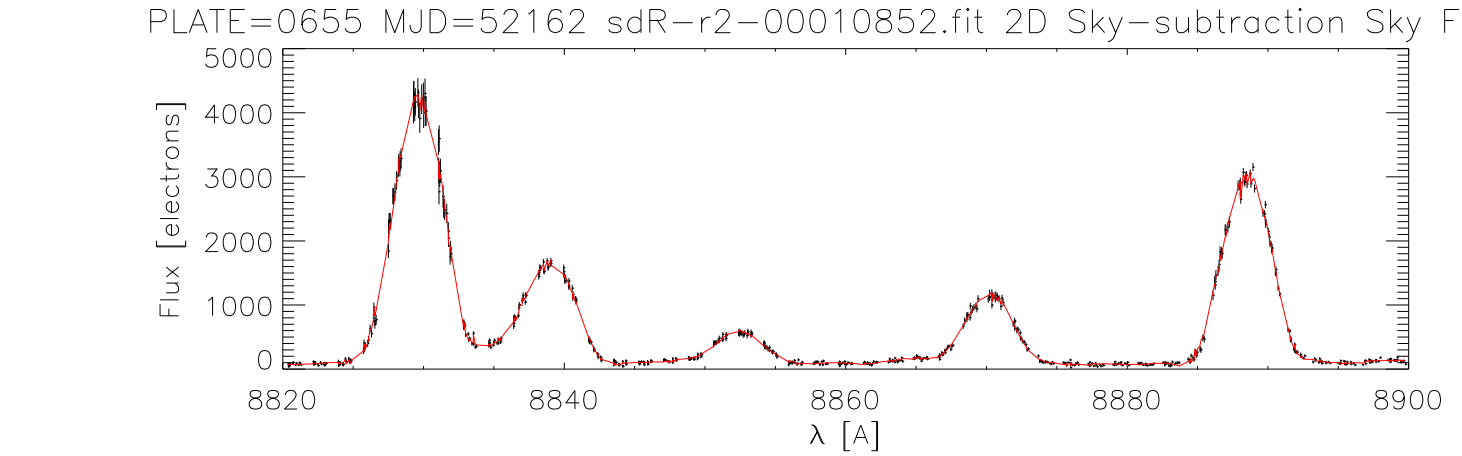

PLATE=0655 MJD=52162 sdR-r2-00010852.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-11.4
-11.2
-11.0
-10.8
-10.6
50
100
150
200
250
300
Fiber number

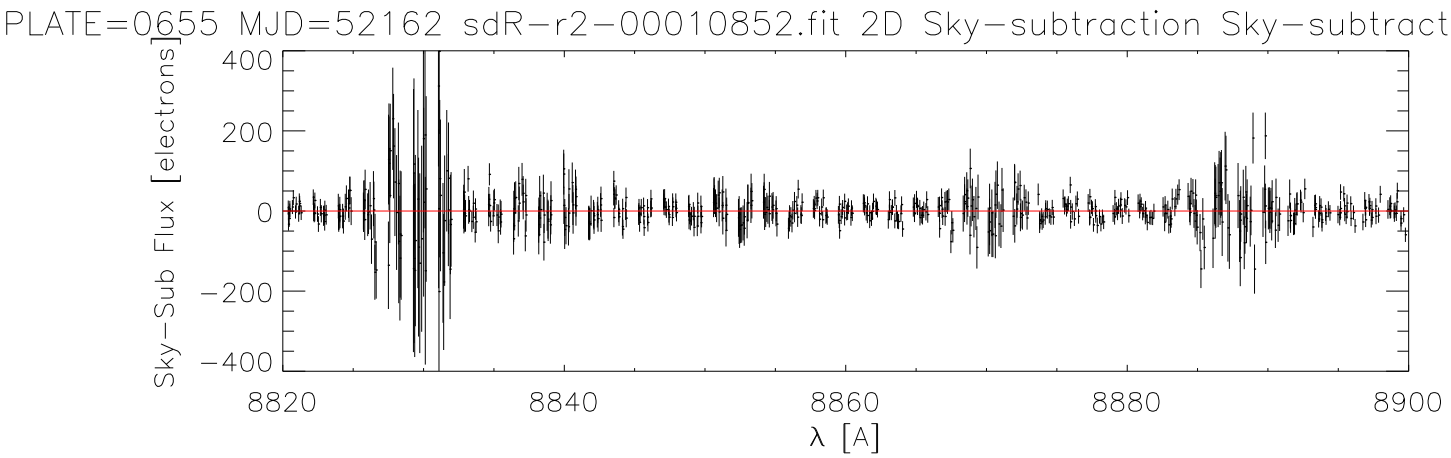

PLATE=0655 MJD=52162 sdR-r2-00010852.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

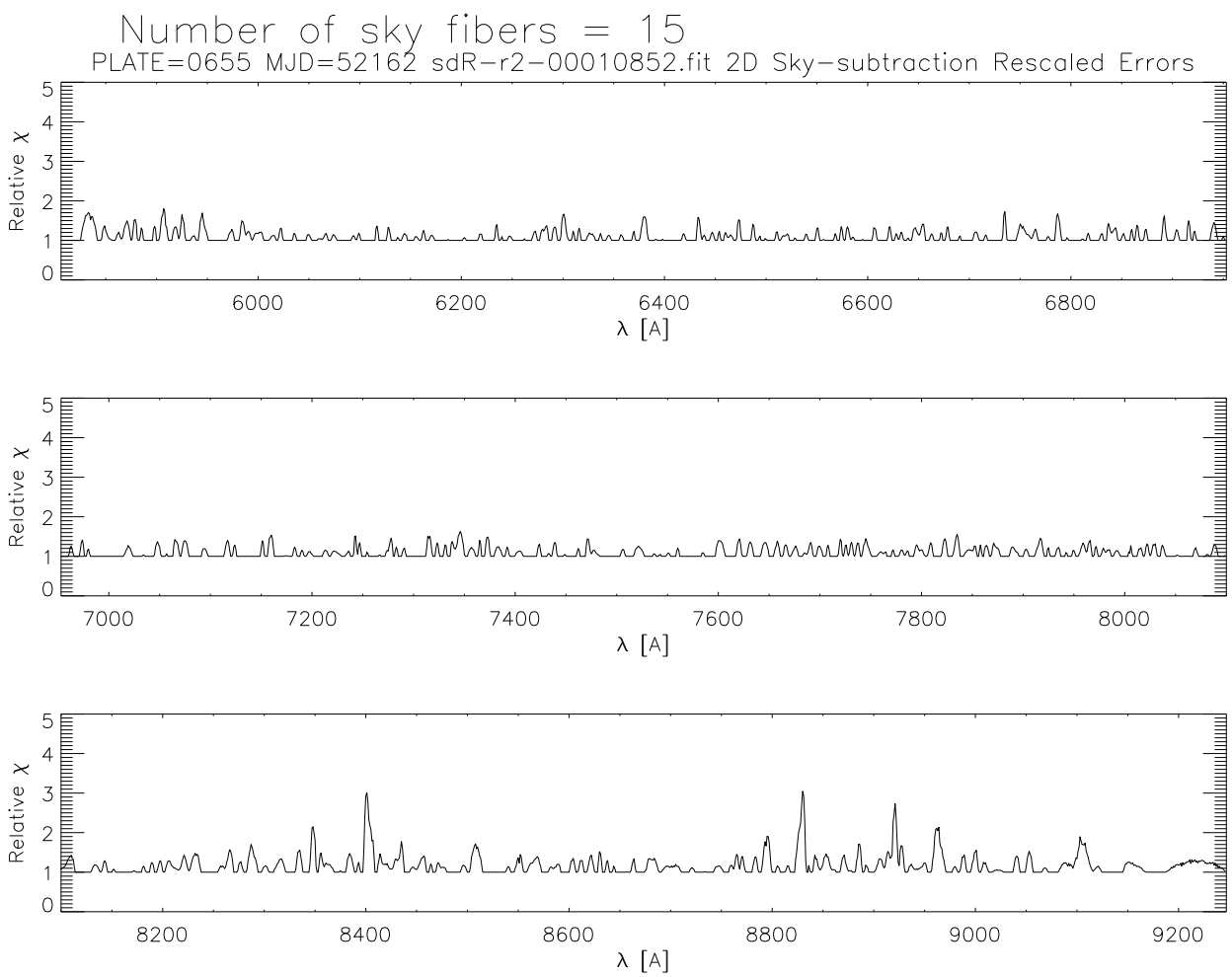

PLATE=0655 MJD=52162 sdR-r2-00010852.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

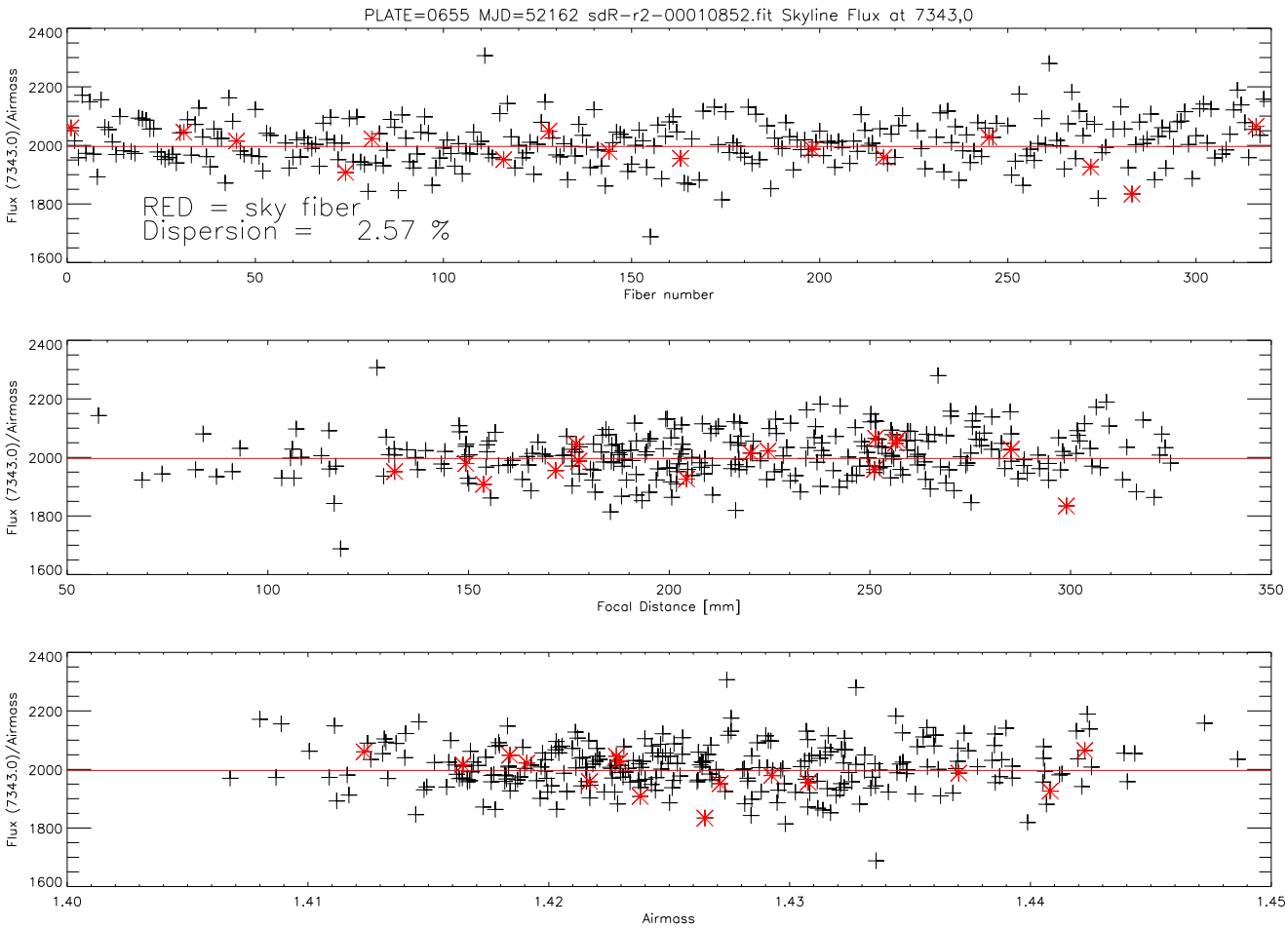

Number of sky fibers = 15
PLATE=0655 MJD=52162 sdR-r2-00010852.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

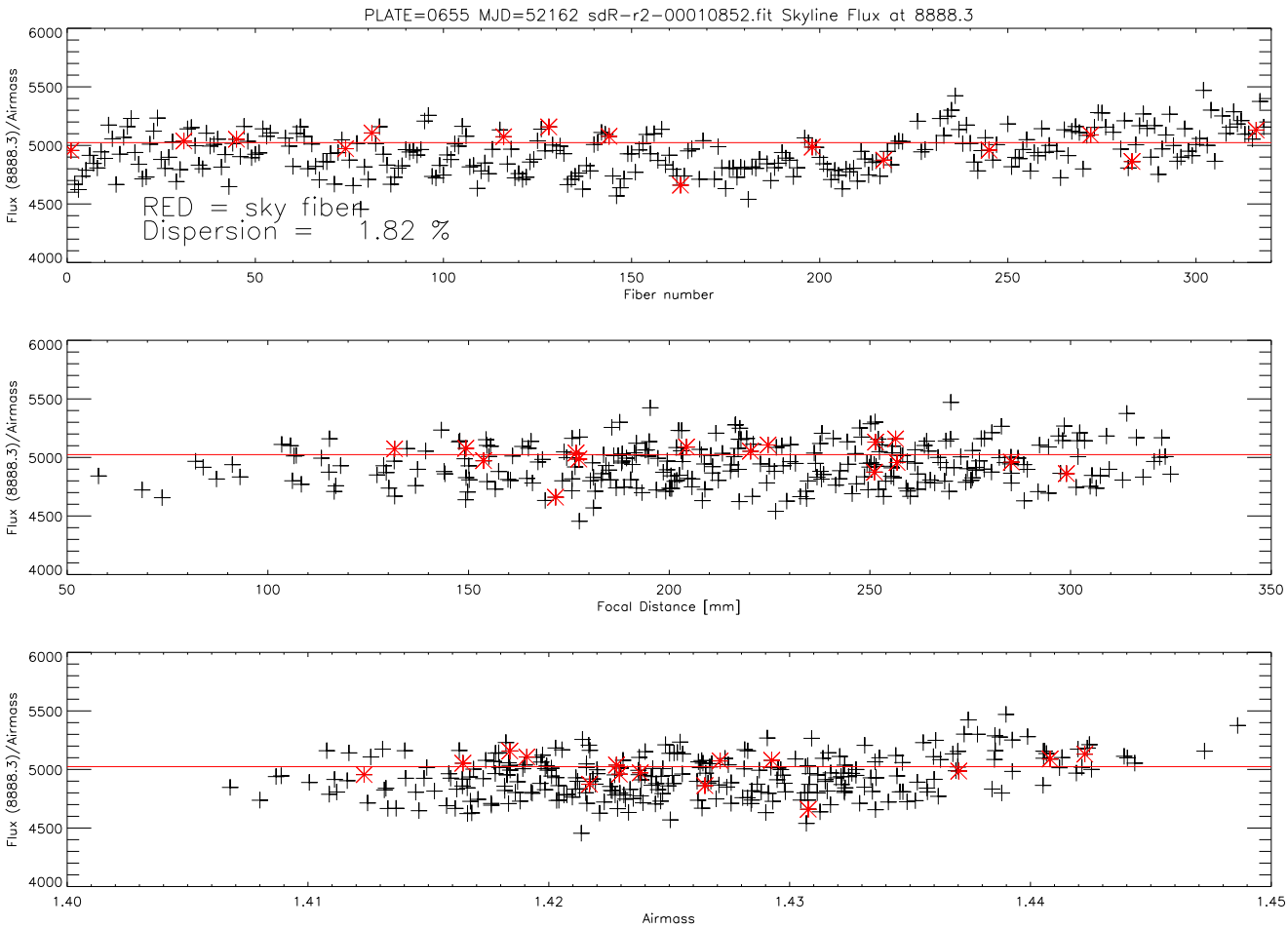

PLATE=0655 MJD=52162 sdR-r2-00010852.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
Fiber number

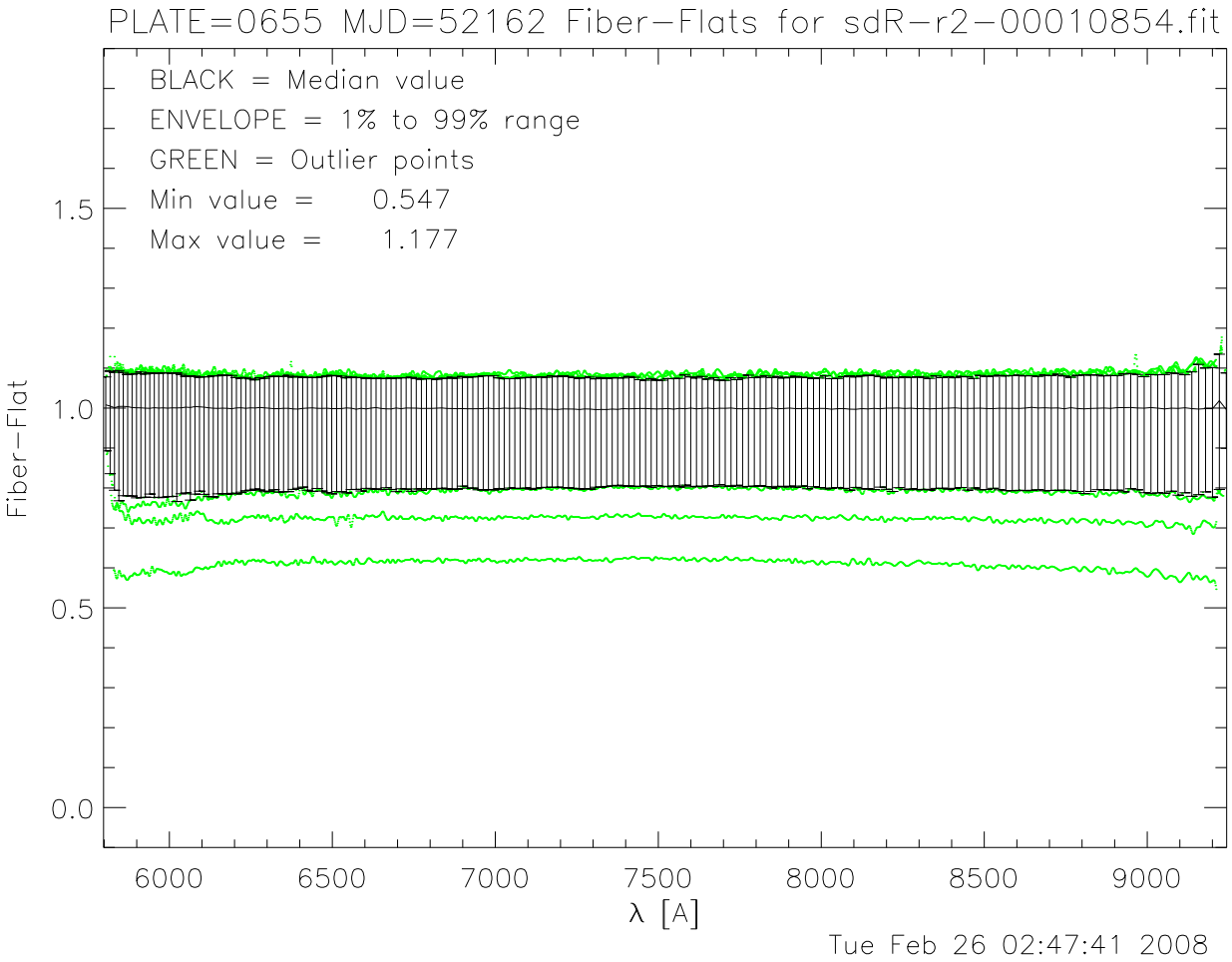

PLATE=0655 MJD=52162 sdR-r2-00010852.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

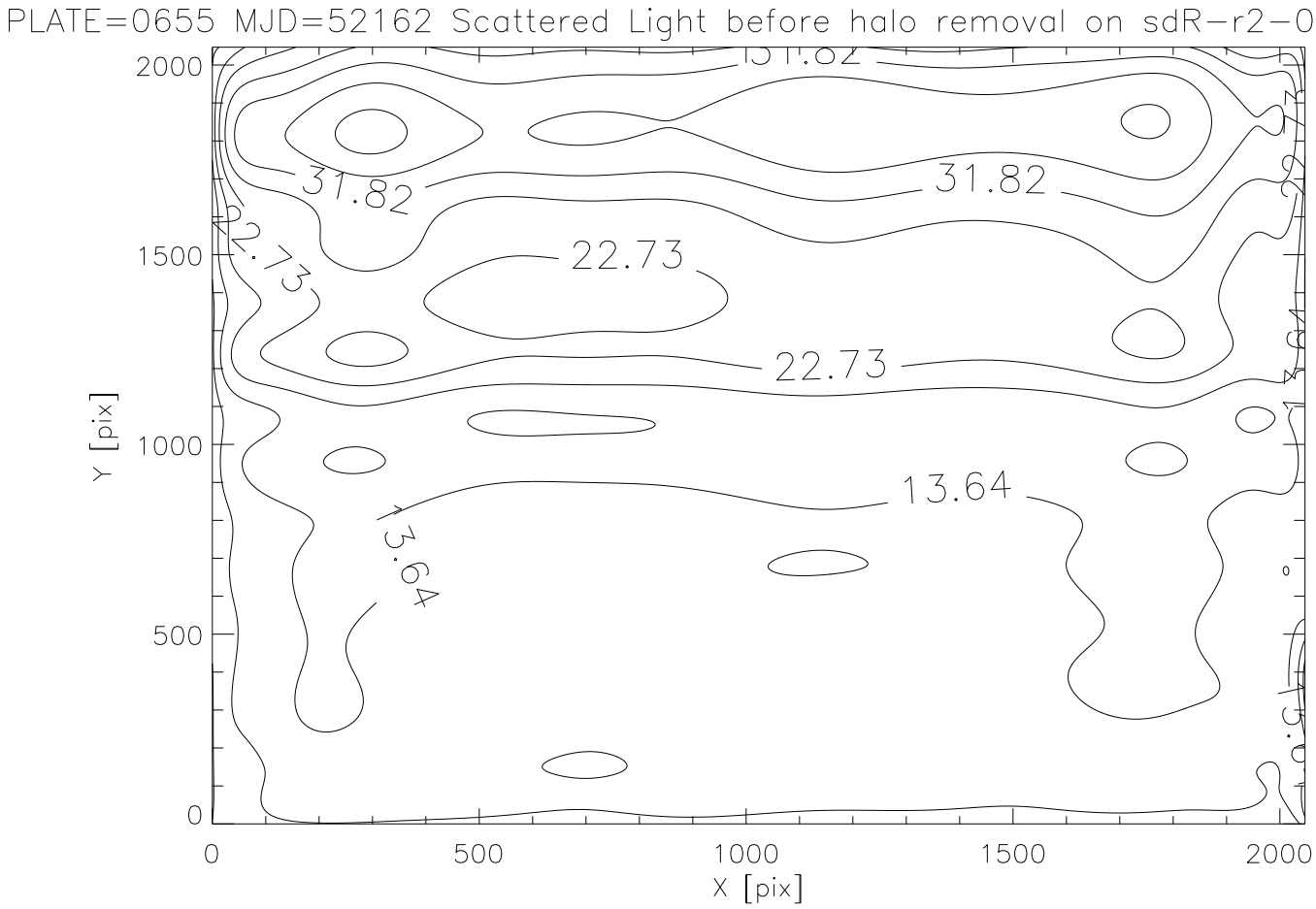

PLATE=0655 MJD=52162 sdR-r2-00010852.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

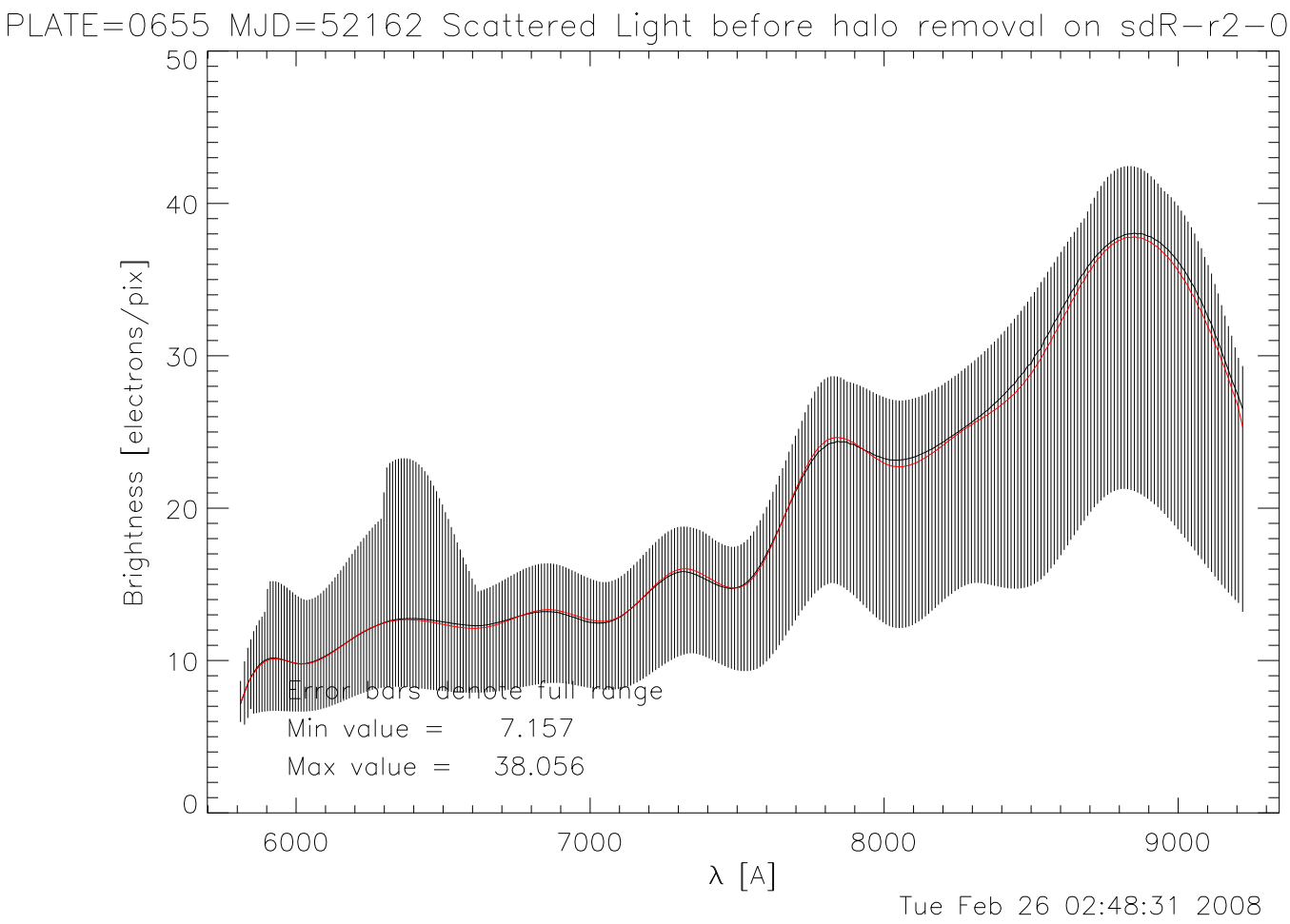

Number of sky fibers = 15
PLATE=0655 MJD=52162 sdR-r2-00010852.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

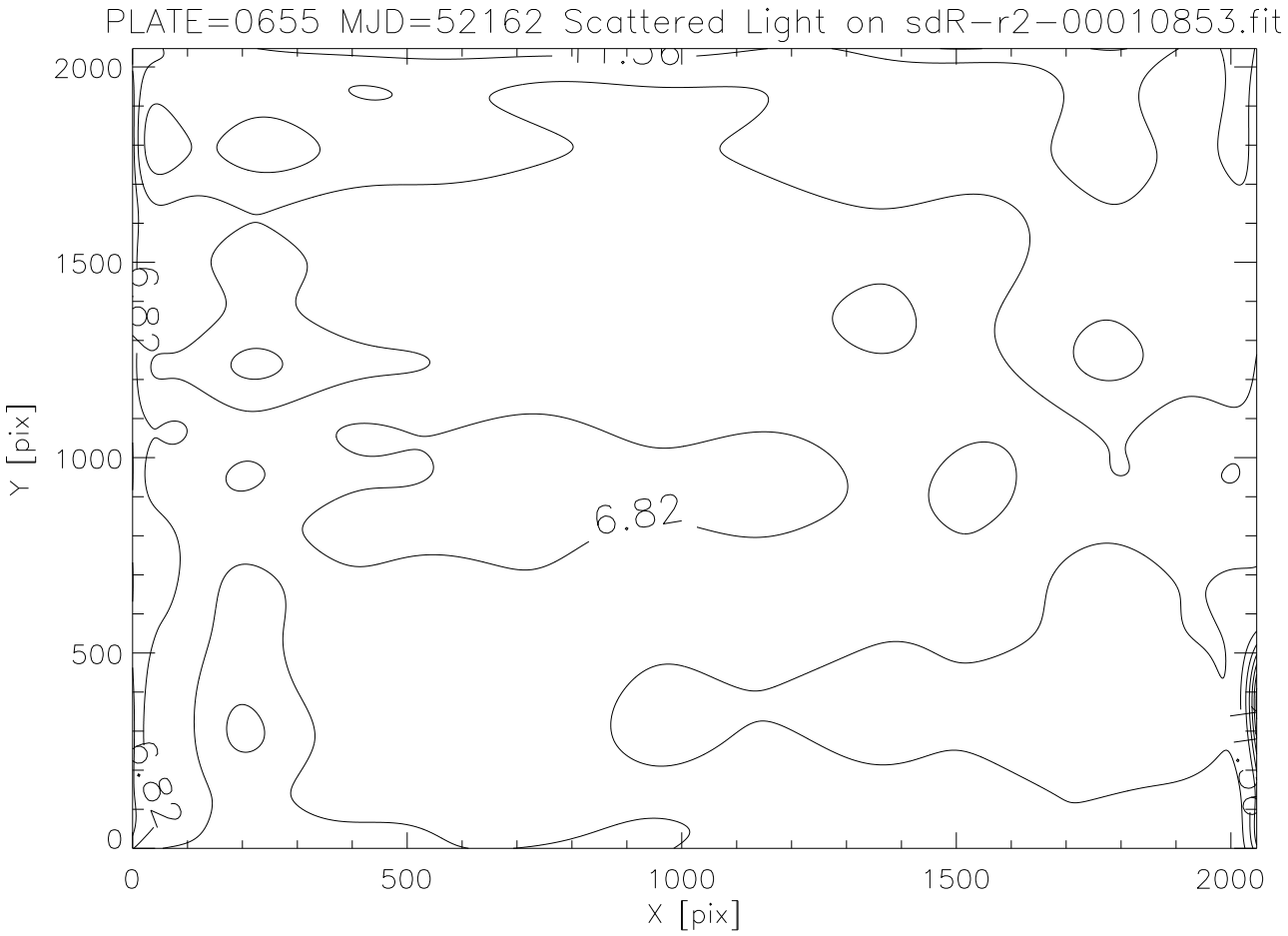

PLATE=0655 MJD=52162 sdR-r2-00010852.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.57 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

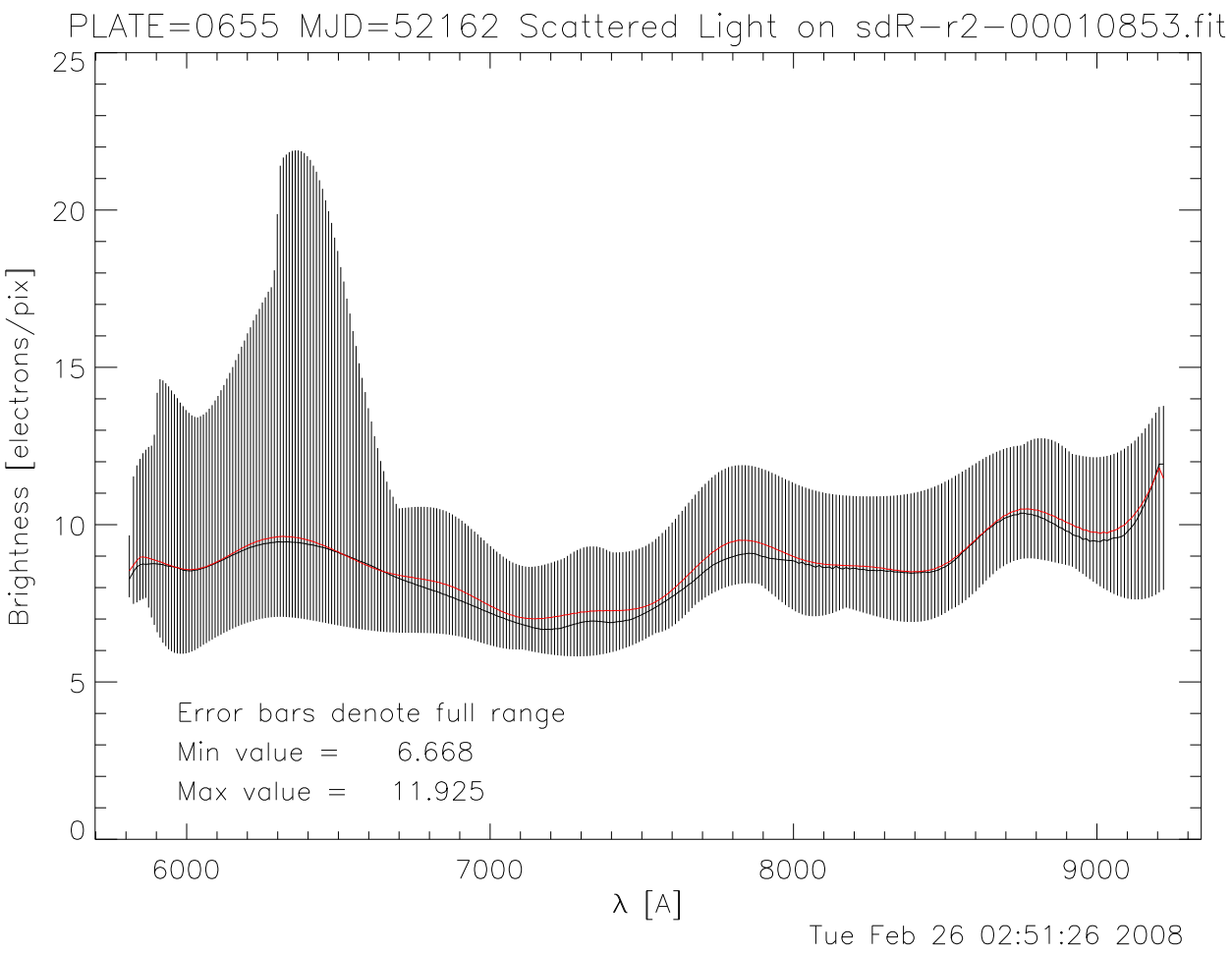

PLATE=0655 MJD=52162 sdR-r2-00010852.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.82 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

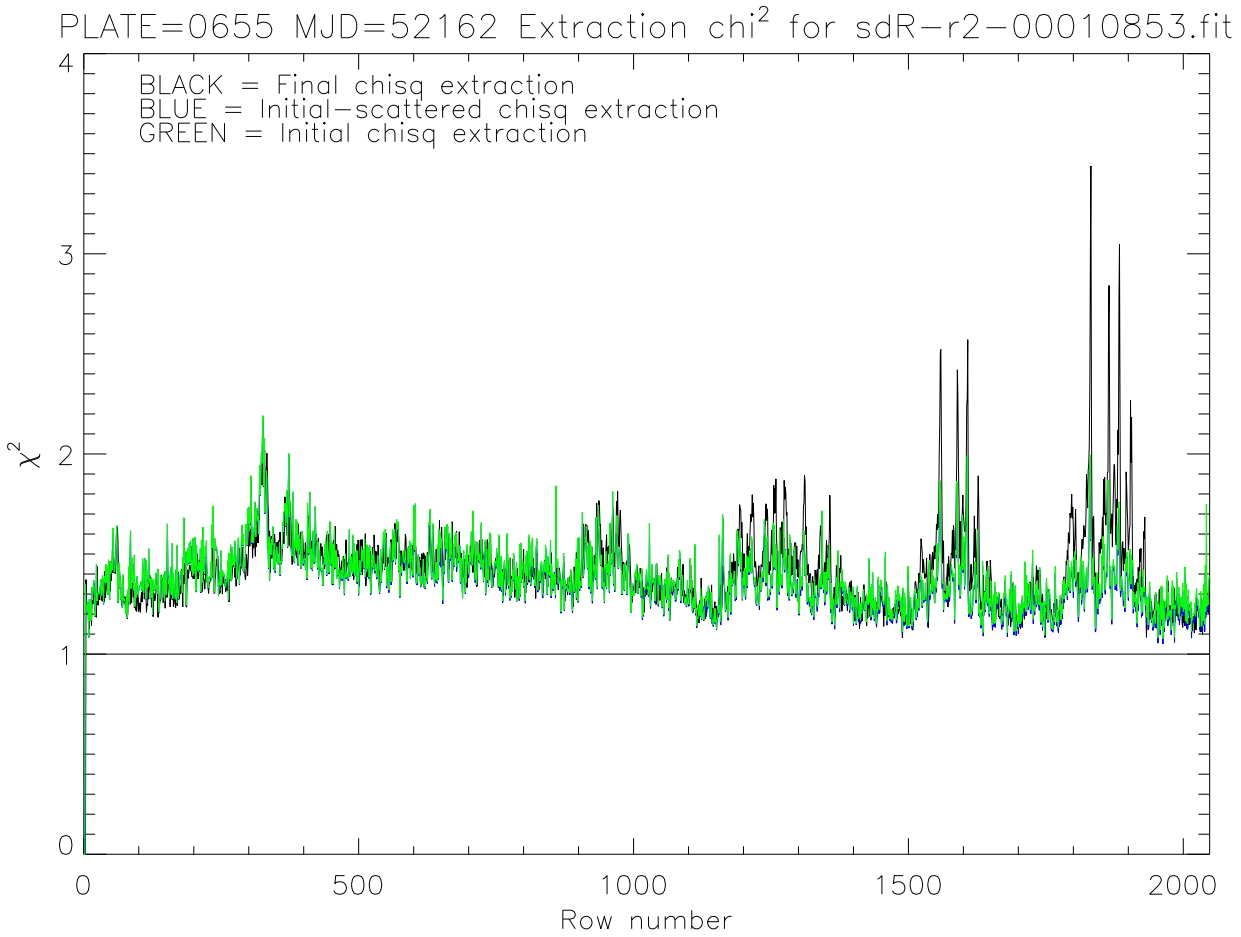

PLATE=0655 MJD=52162 Fiber−Flats for sdR−r2−00010854.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.547
Max value = 1.177
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Tue Feb 26 02:47:41 2008

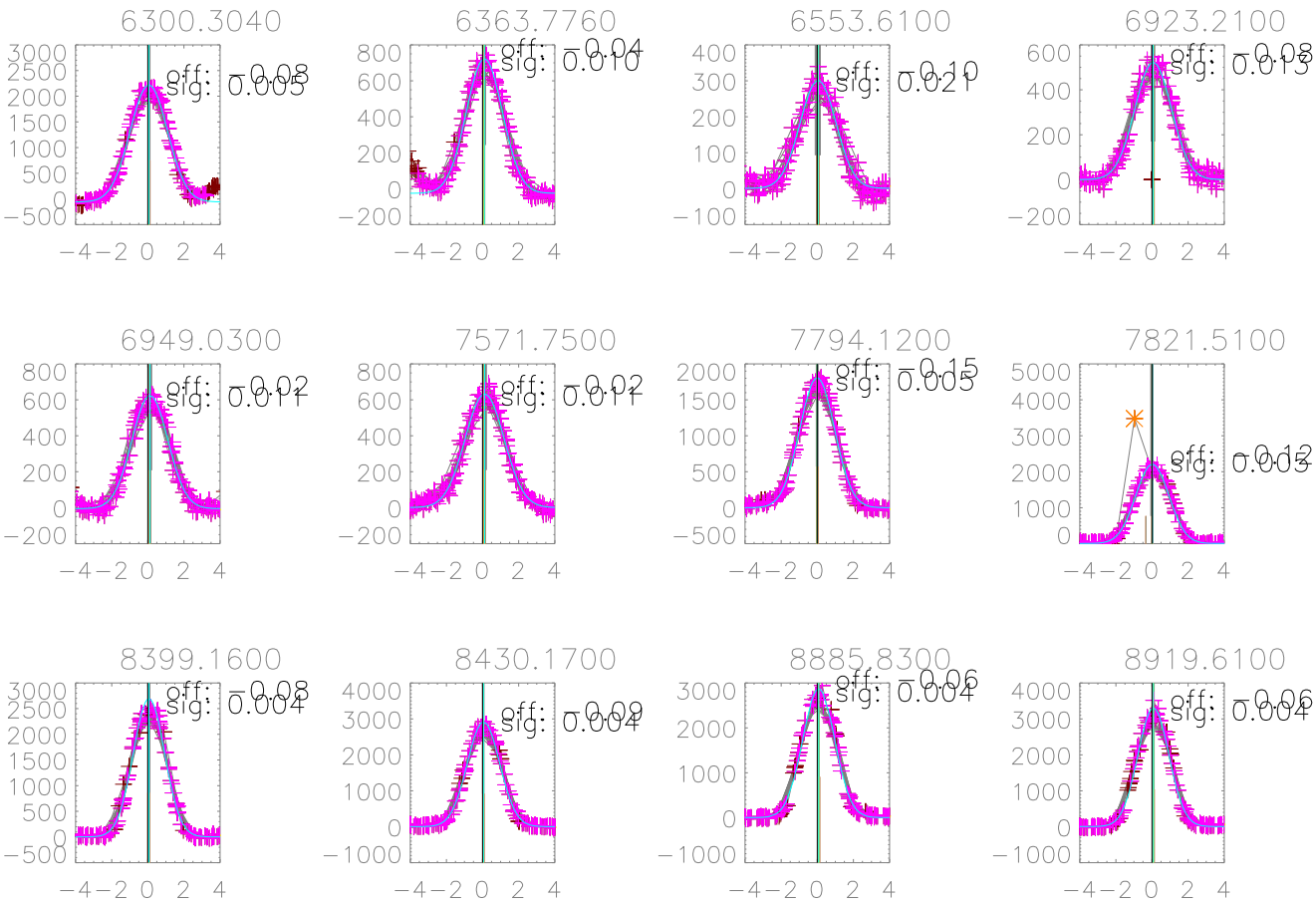

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-r2-00010853.fi
31.82
31.82
22.73
22.73
13.64
13.64
Y [pix]
X [pix]
0
500
1000
1500
2000

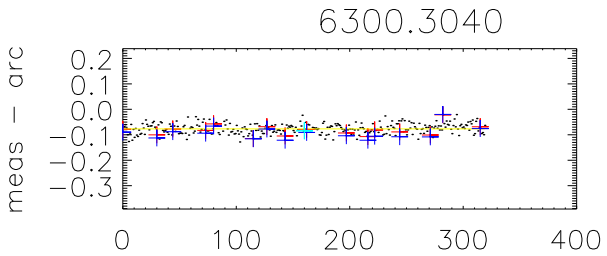

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-r2-00010853.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.157
Max value = 38.056
Tue Feb 26 02:48:31 2008

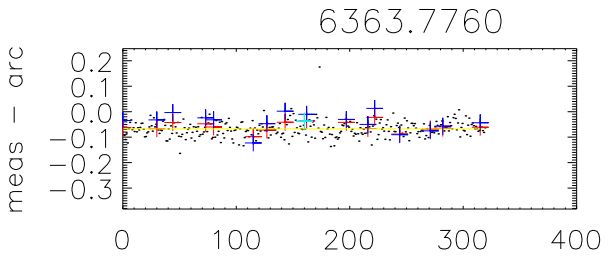

PLATE=0655 MJD=52162 Scattered Light on sdR-r2-00010853.fit
6.82
6.82
6.82
6.82
Y [pix]
X [pix]
0
500
1000
1500
2000

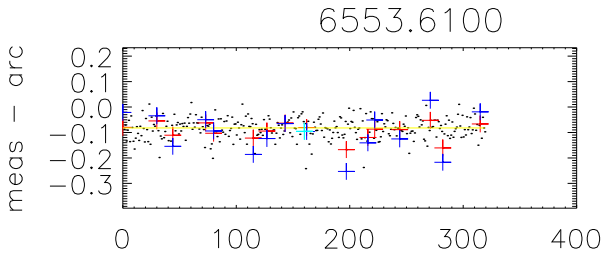

PLATE=0655 MJD=52162 Scattered Light on sdR-r2-00010853.fit
Brightness [electrons/pix]
25
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 6.668
Max value = 11.925
Tue Feb 26 02:51:26 2008

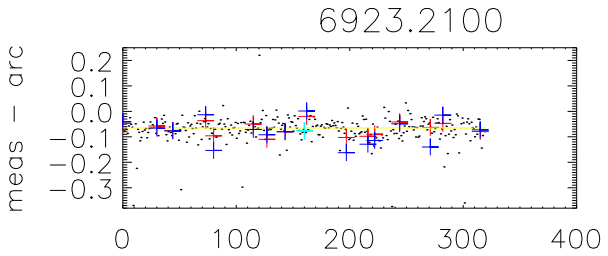

PLATE=0655 MJD=52162 Extraction chi^2 for sdR−r2−00010853.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

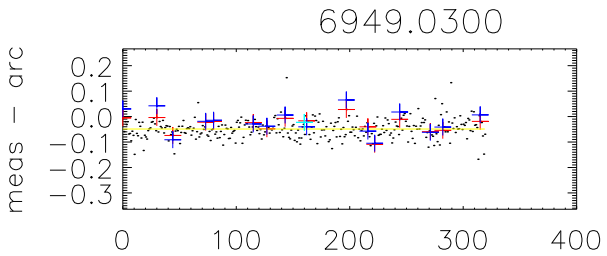

6300.3040
off: −0.08
sig: 0.005
6363.7760
off: −0.04
sig: 0.010
6553.6100
off: −0.10
sig: 0.021
6923.2100
off: −0.08
sig: 0.013
6949.0300
off: −0.02
sig: 0.011
7571.7500
off: −0.02
sig: 0.011
7794.1200
off: −0.15
sig: 0.005
7821.5100
off: −0.12
sig: 0.003
8399.1600
off: −0.08
sig: 0.004
8430.1700
off: −0.09
sig: 0.004
8885.8300
off: −0.06
sig: 0.004
8919.6100
off: −0.06
sig: 0.004

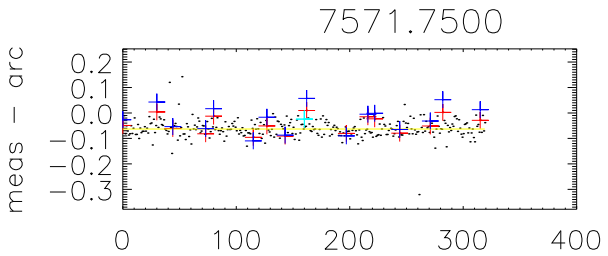

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

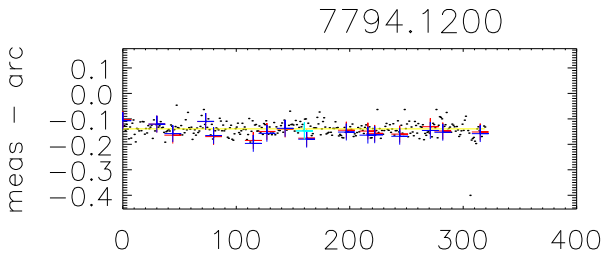

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

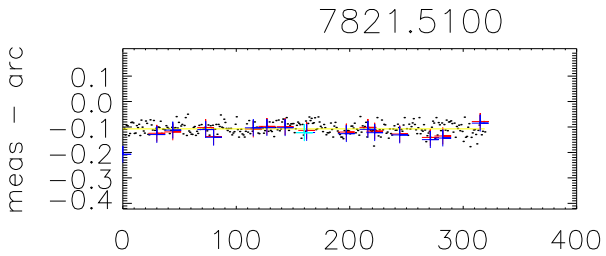

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

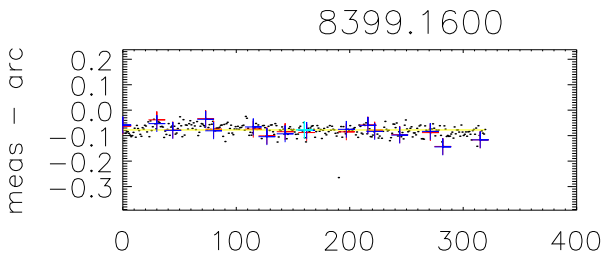

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

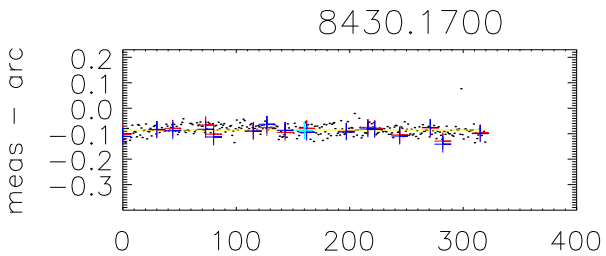

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

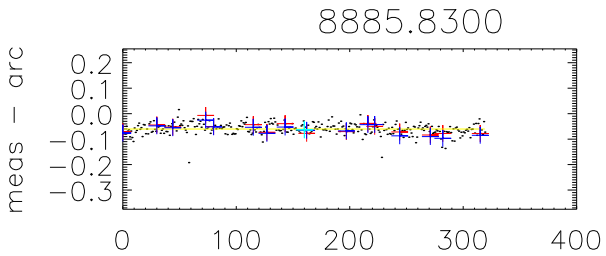

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

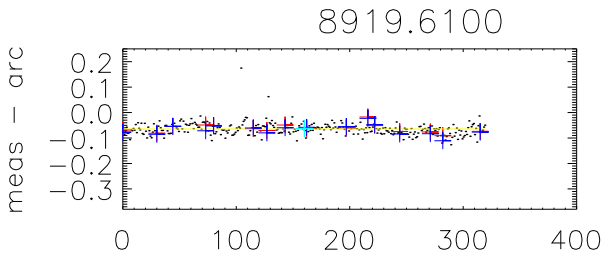

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

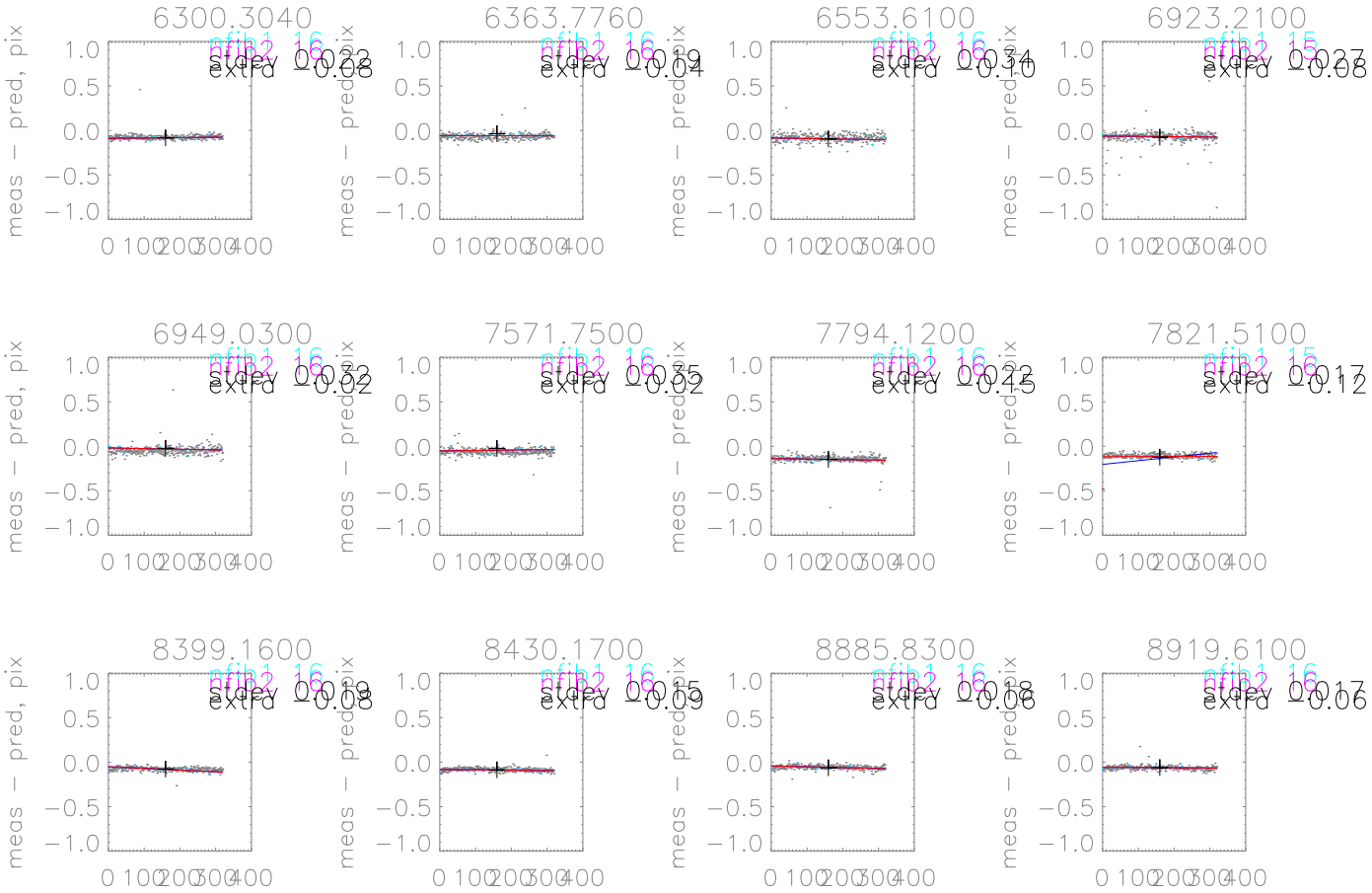

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

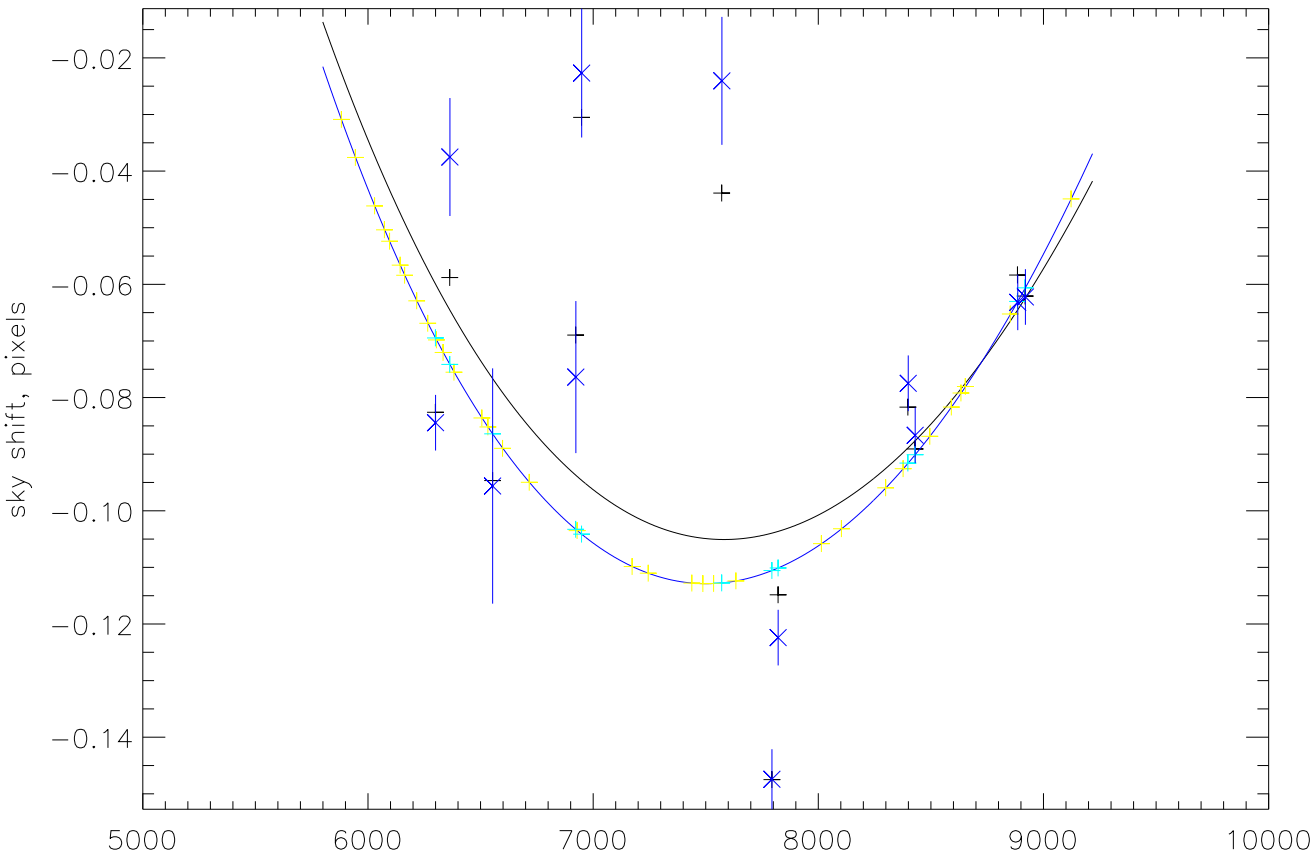

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

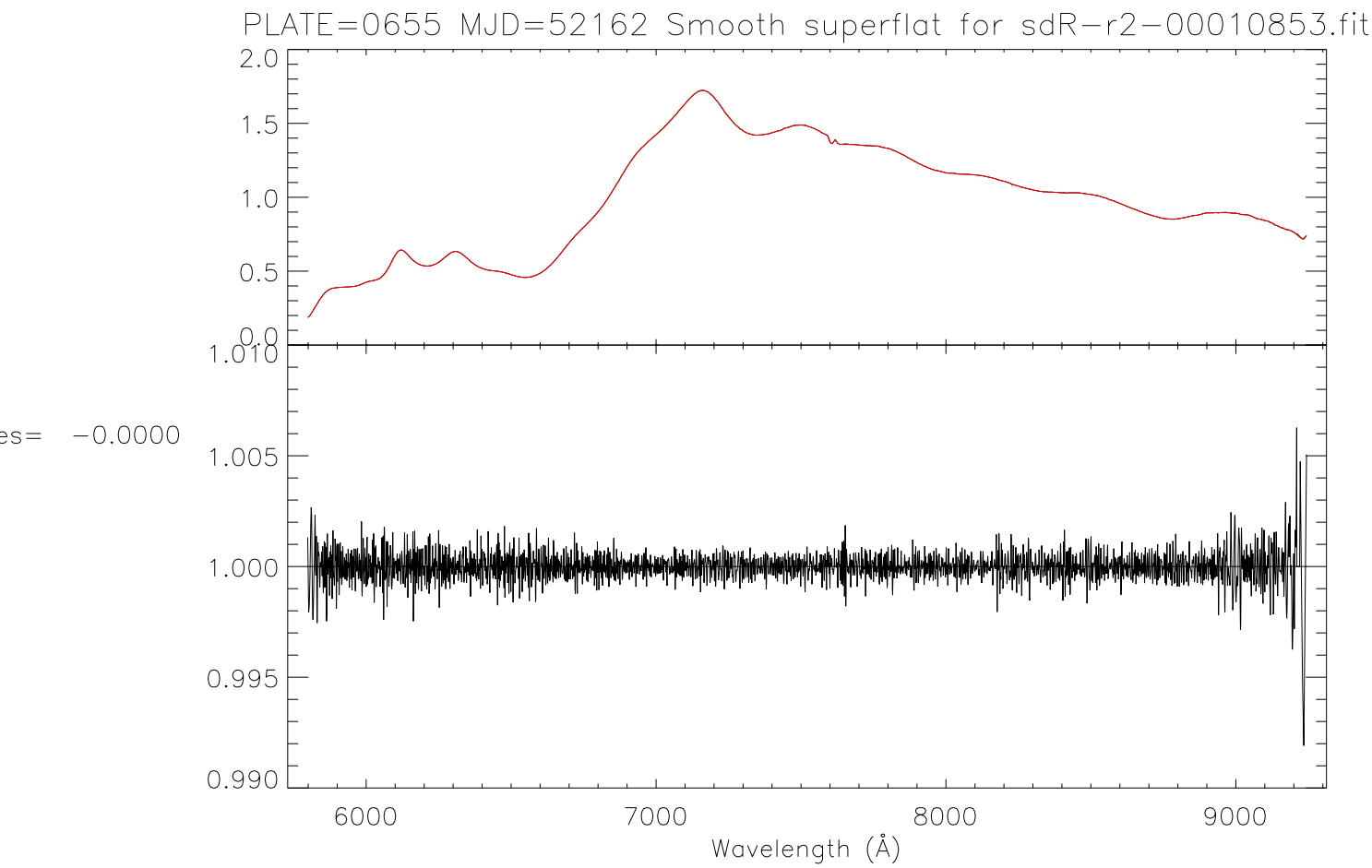

8430.1700
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

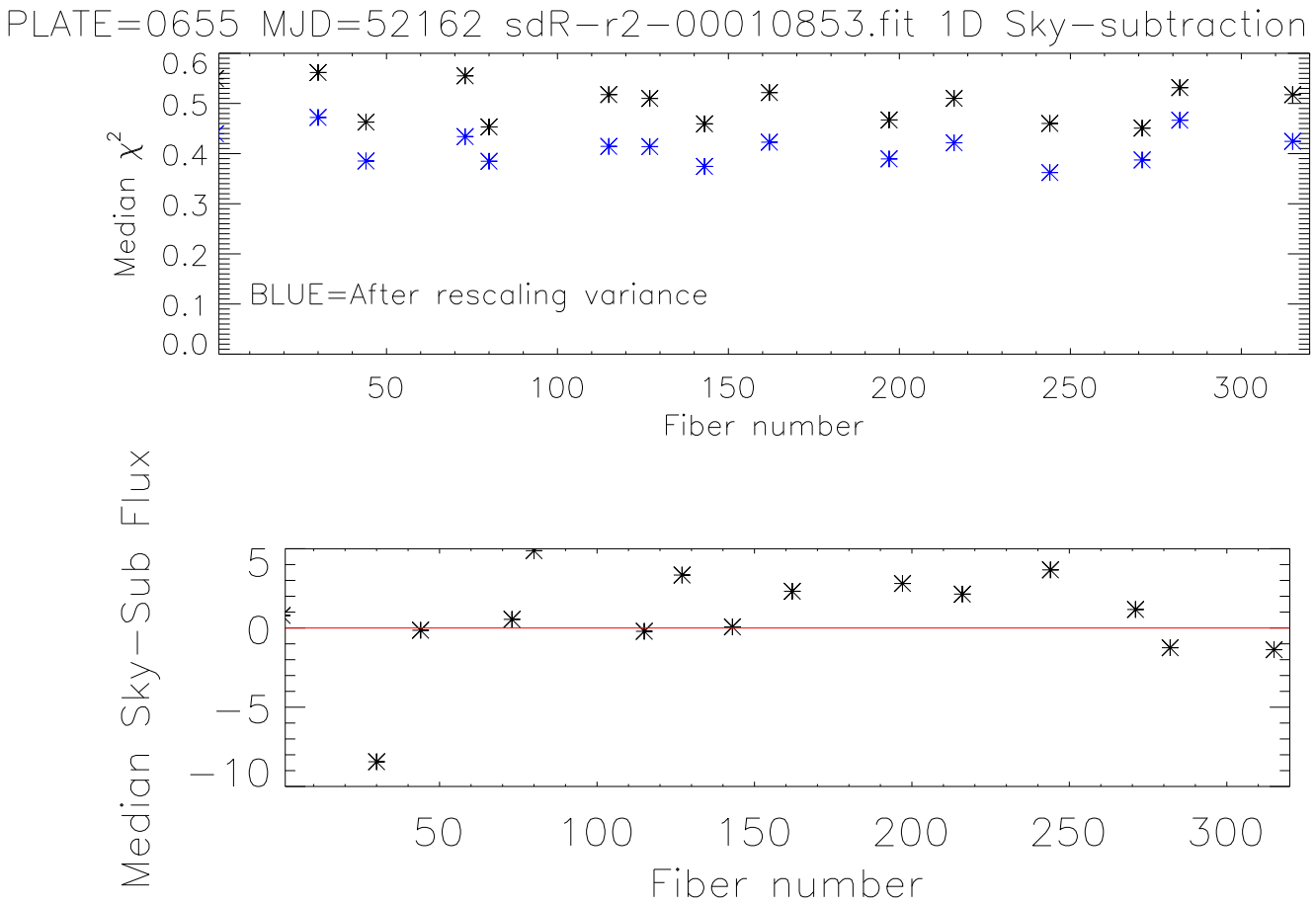

8885.8300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

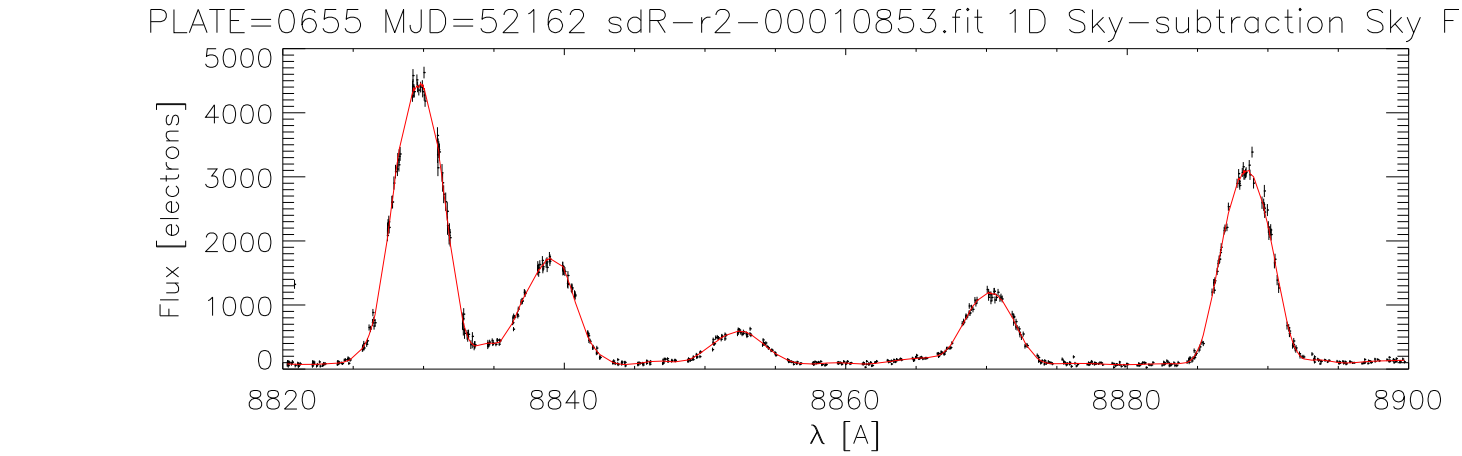

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

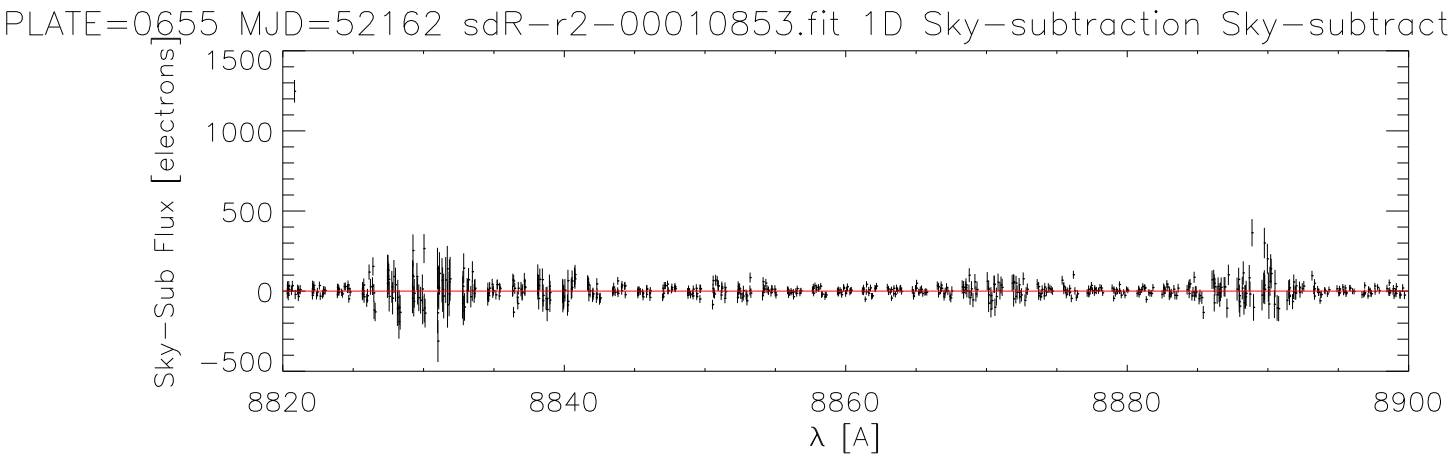

6300.3040
6363.7760
6553.6100
6923.2100
6949.0300
7571.7500
7794.1200
7821.5100
8399.1600
8430.1700
8885.8300
8919.6100
meas − pred, pix
mfhs1 16
mfhs2 16
stdev 0.08
extrd 0.22
stdev 0.04
extrd 0.19
stdev 0.10
extrd 0.34
stdev 0.08
extrd 0.27
stdev 0.02
extrd 0.32
stdev 0.02
extrd 0.35
stdev 0.05
extrd 0.22
stdev 0.12
extrd 0.17
stdev 0.08
extrd 0.19
stdev 0.09
extrd 0.15
stdev 0.06
extrd 0.18
stdev 0.06
extrd 0.17
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

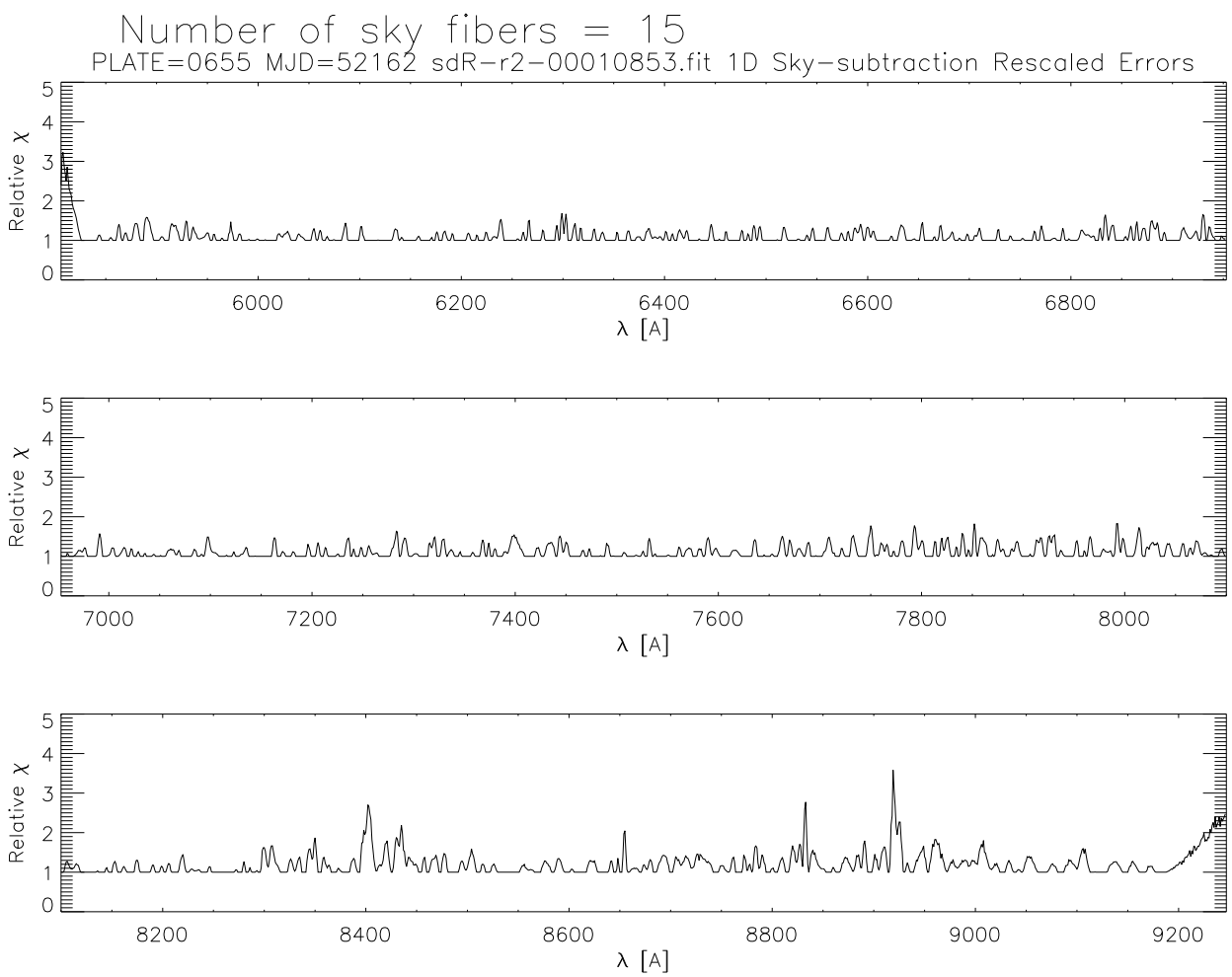

sky shift, pixels
−0.02
−0.04
−0.06
−0.08
−0.10
−0.12
−0.14
5000
6000
7000
8000
9000
10000

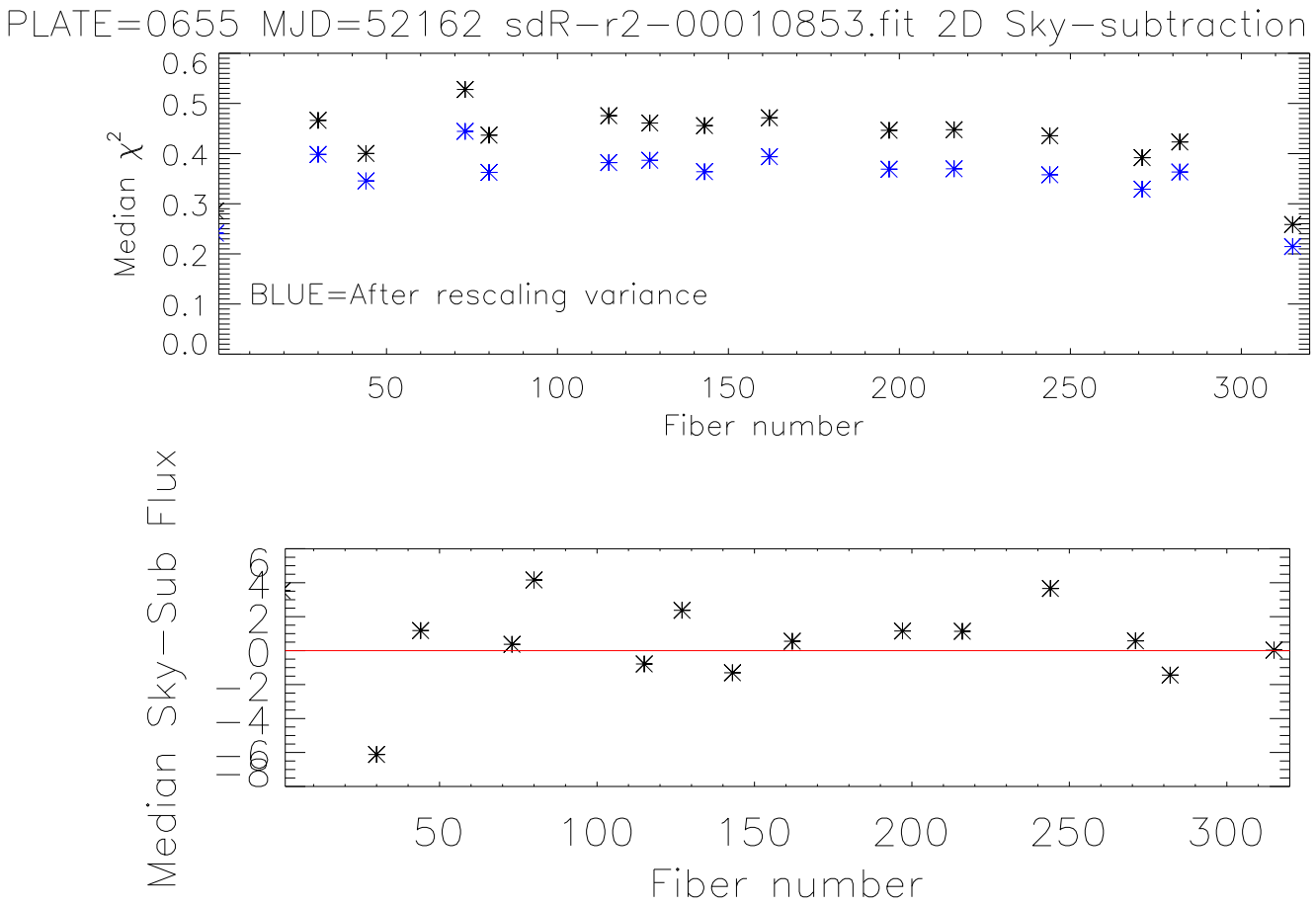

PLATE=0655 MJD=52162 Smooth superflat for sdR-r2-00010853.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= -0.0000
6000
7000
8000
9000
Wavelength (Å)

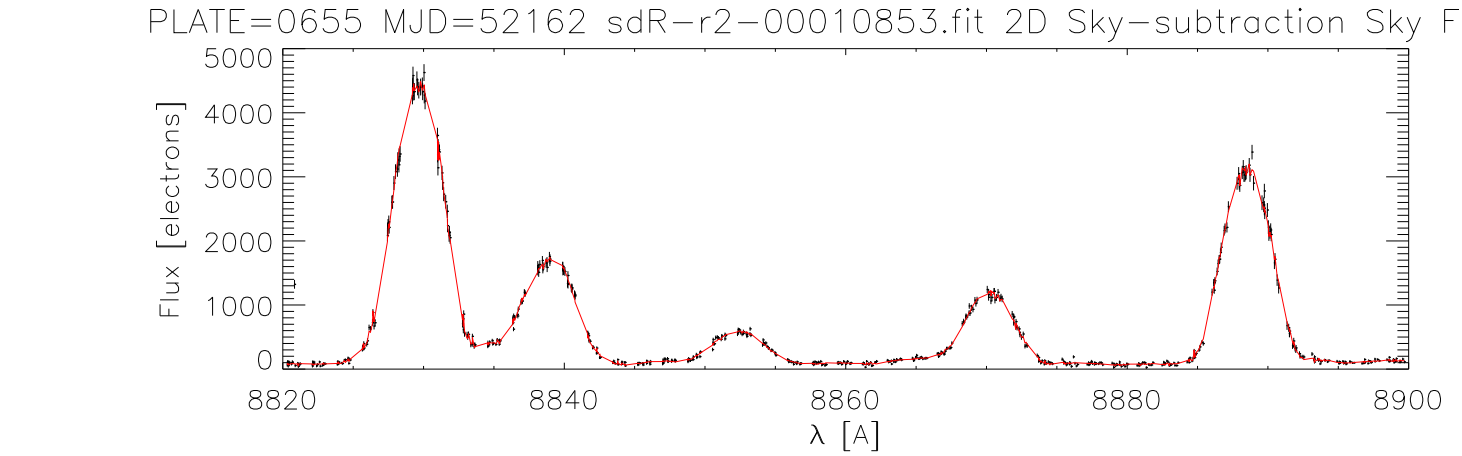

PLATE=0655 MJD=52162 sdR-r2-00010853.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
5
0
−5
−10
50
100
150
200
250
300
Fiber number

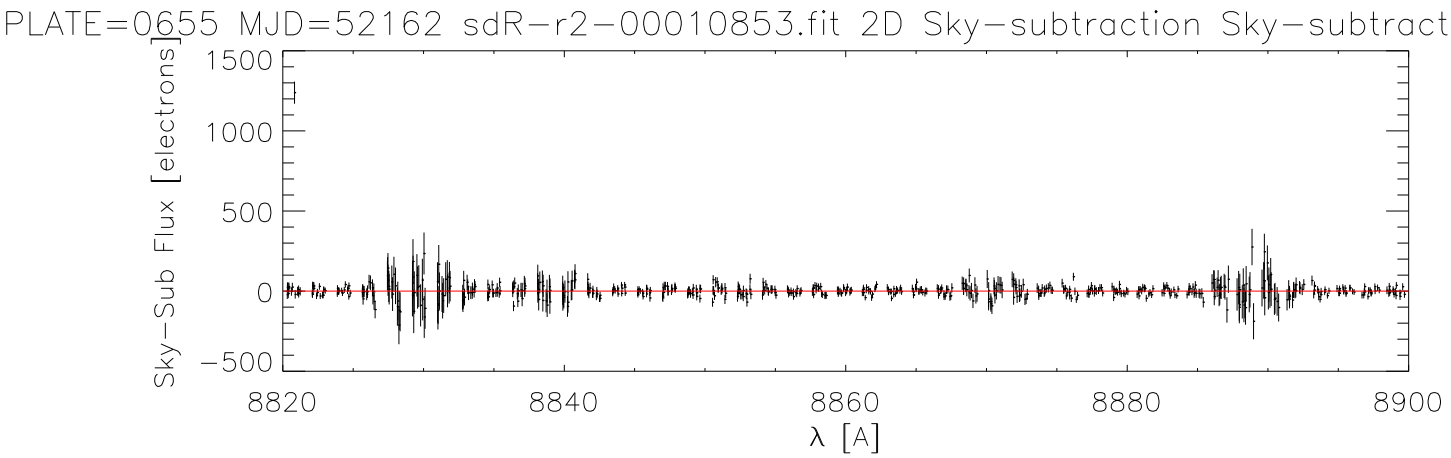

PLATE=0655 MJD=52162 sdR-r2-00010853.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

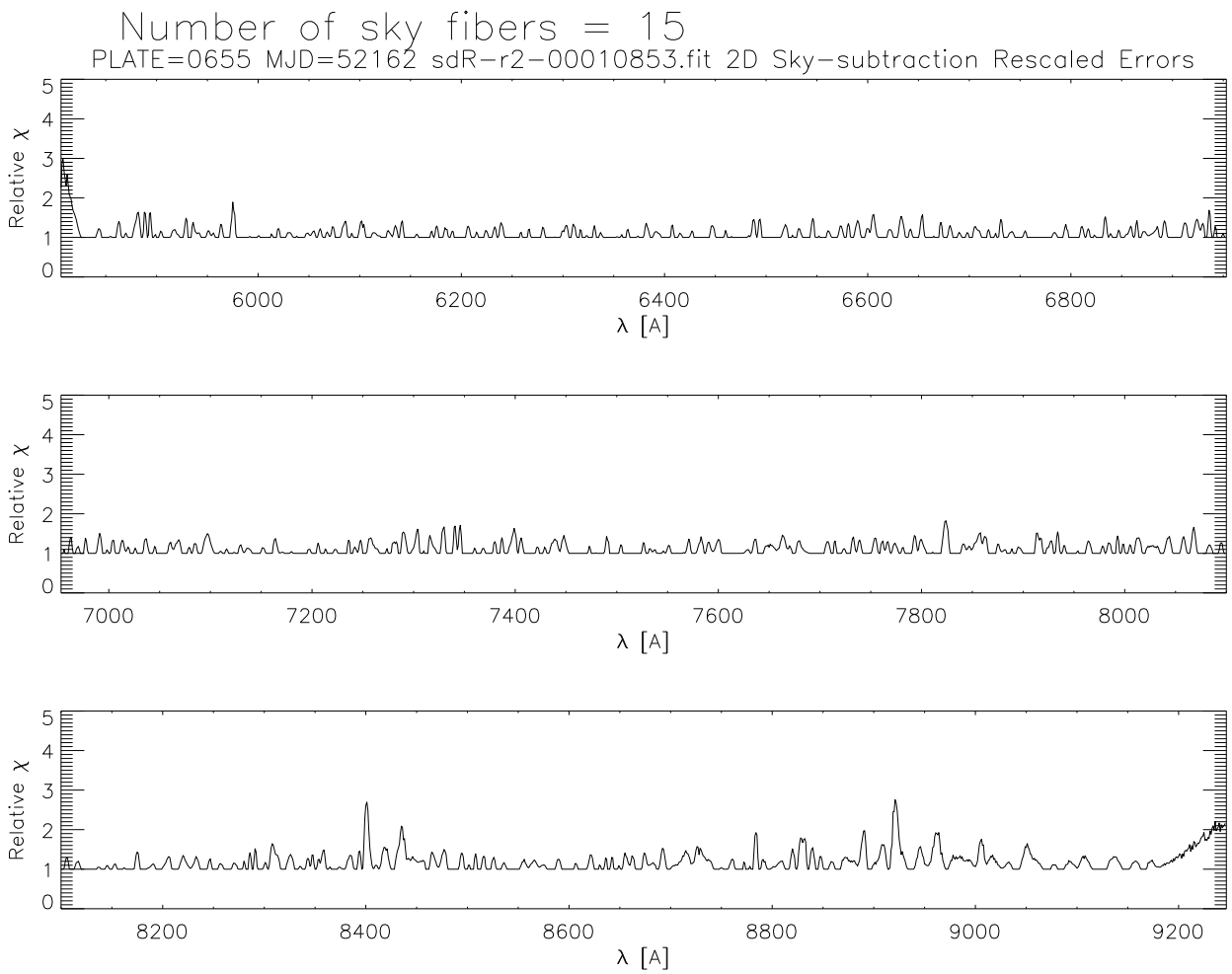

PLATE=0655 MJD=52162 sdR-r2-00010853.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

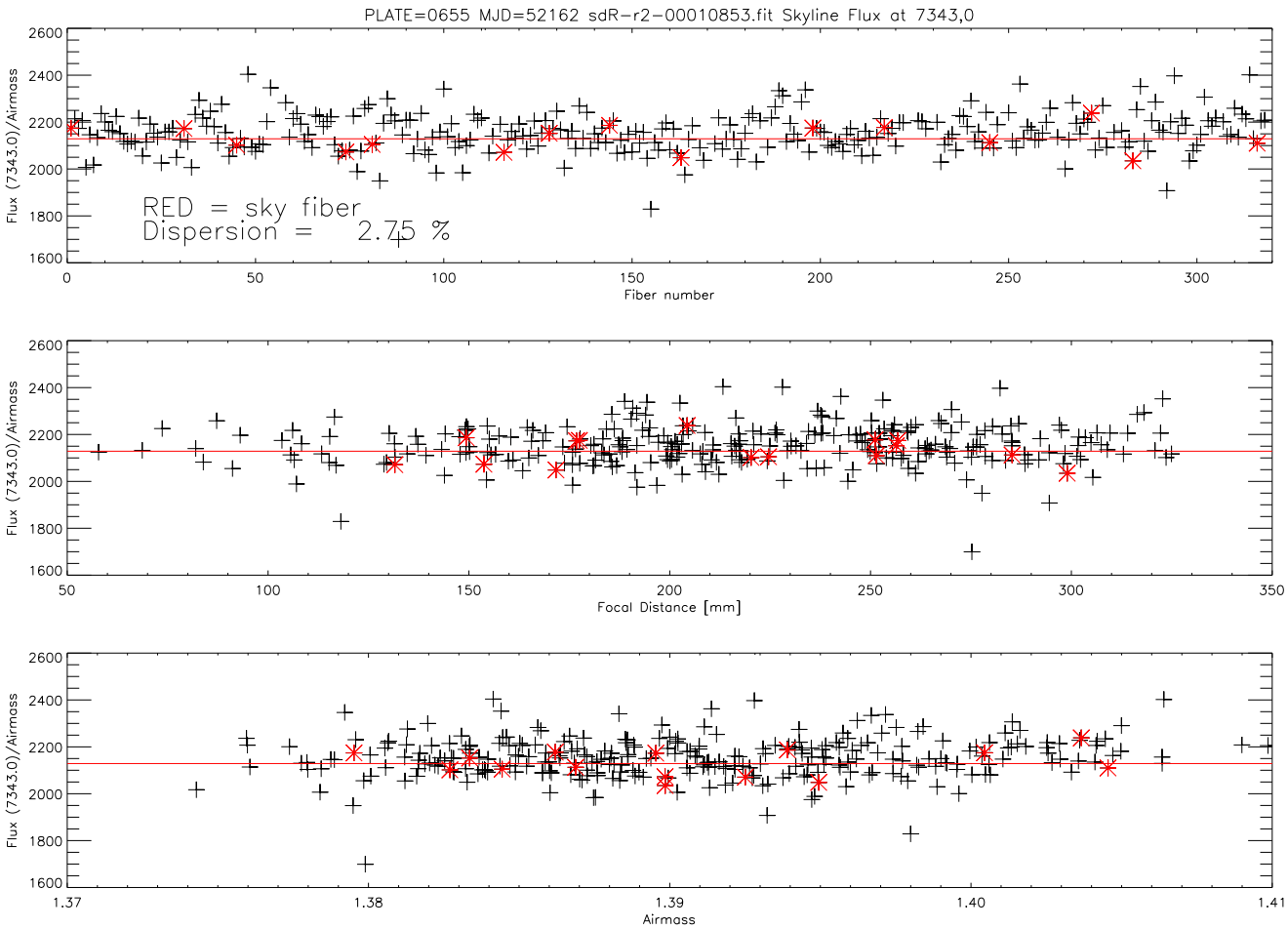

Number of sky fibers = 15
PLATE=0655 MJD=52162 sdR-r2-00010853.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

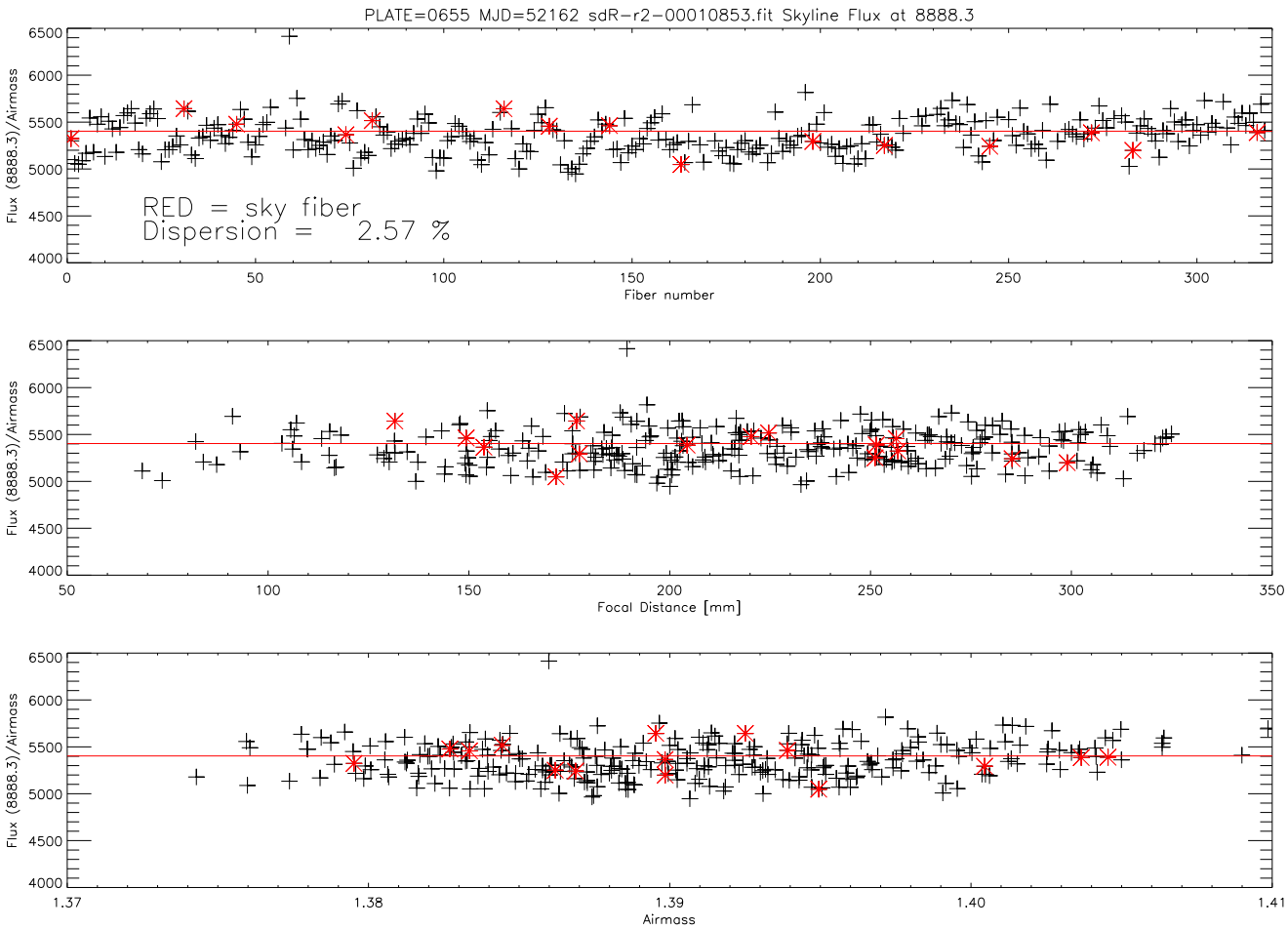

PLATE=0655 MJD=52162 sdR-r2-00010853.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-1.1e-06
-1.0e-06
-9.0e-07
-8.0e-07
-7.0e-07
-6.0e-07
50
100
150
200
250
300
Fiber number

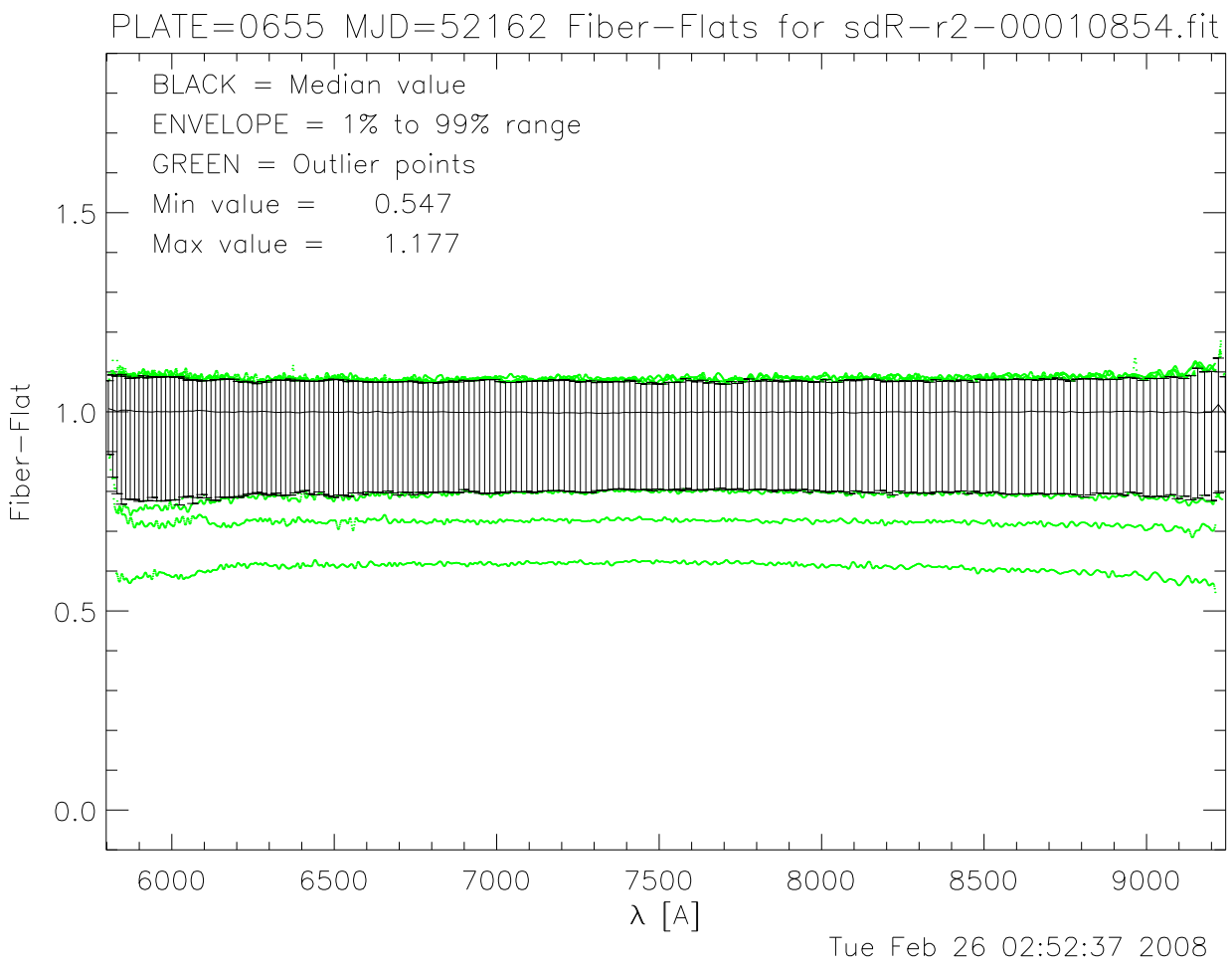

PLATE=0655 MJD=52162 sdR-r2-00010853.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

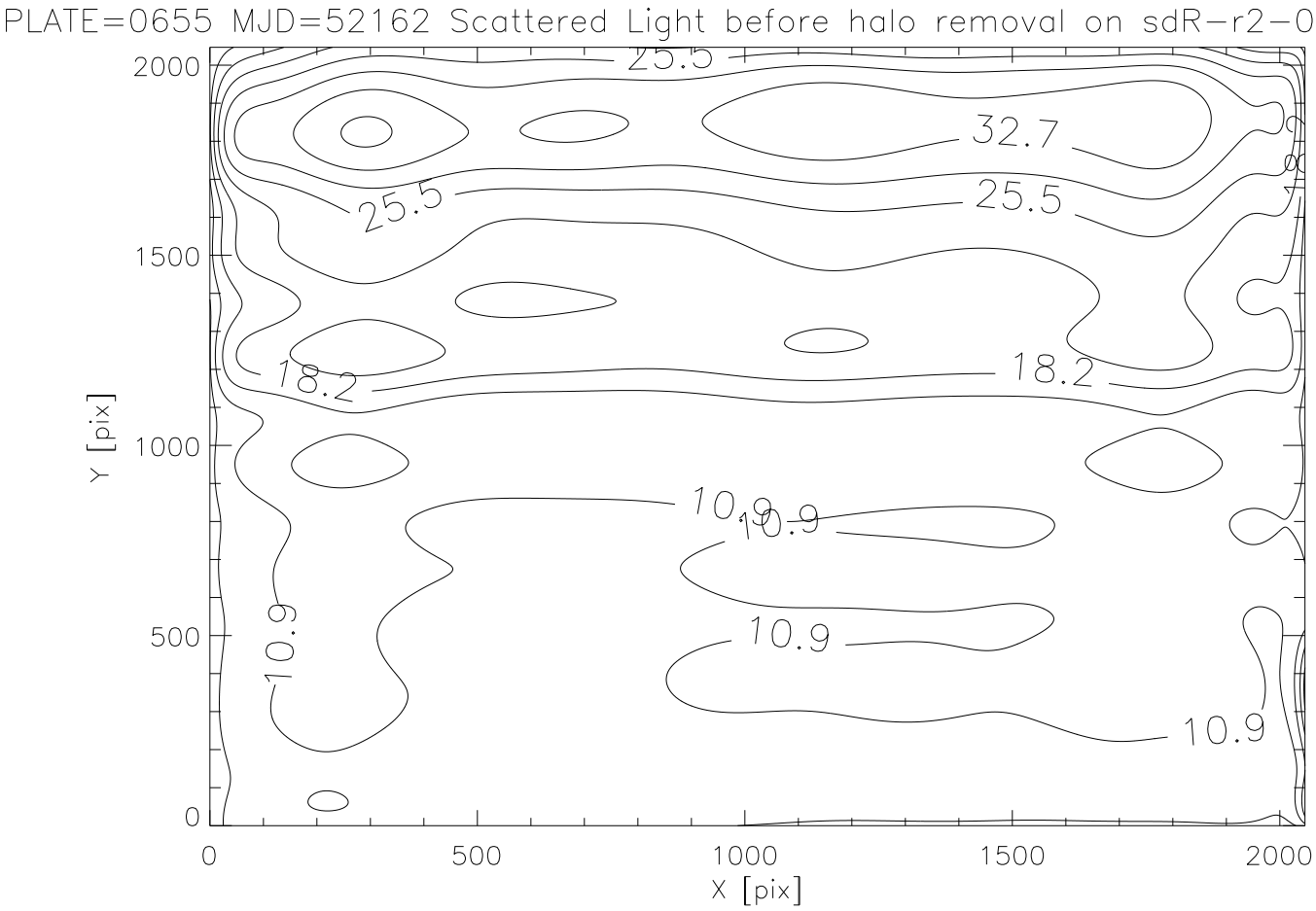

PLATE=0655 MJD=52162 sdR-r2-00010853.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

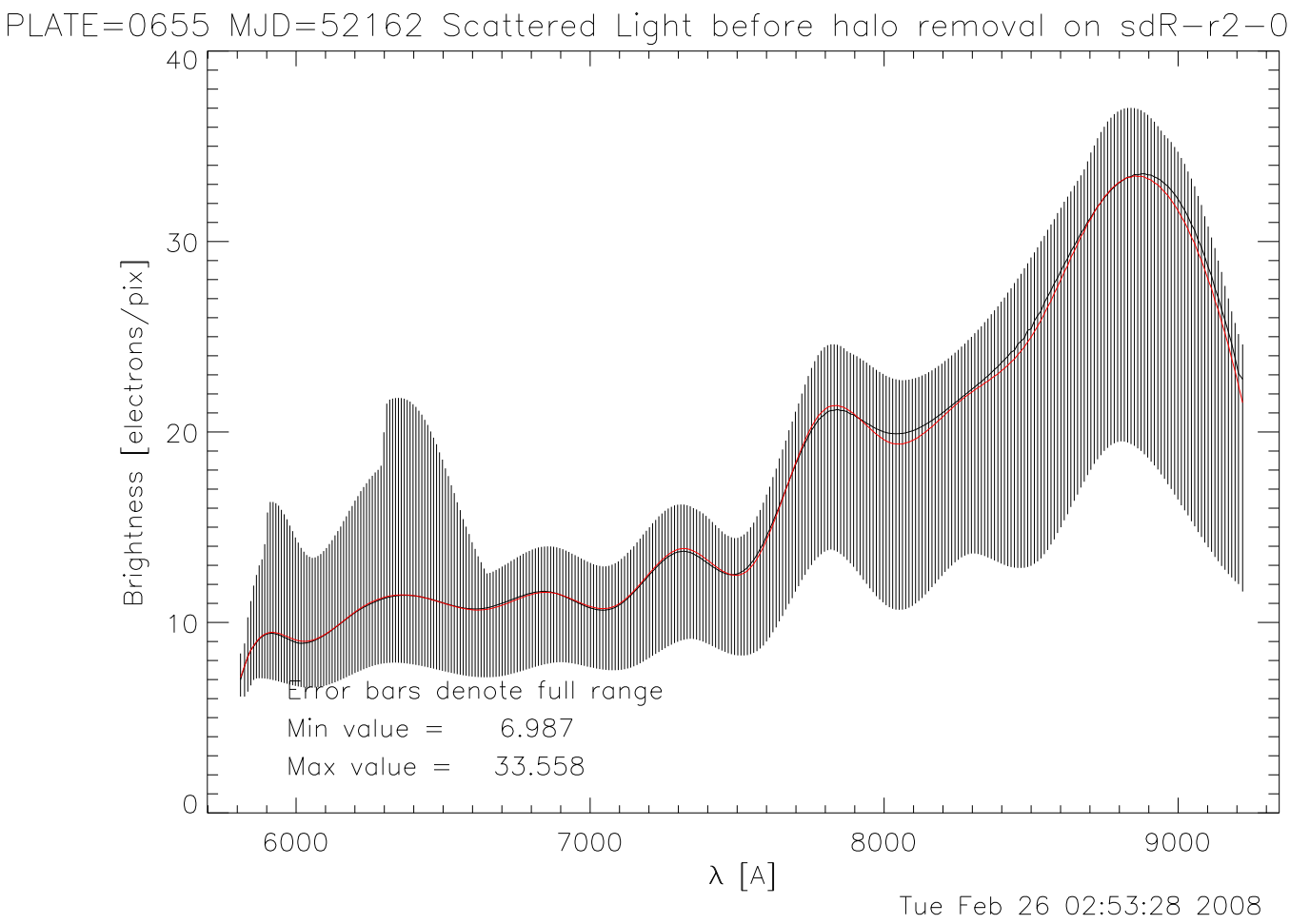

Number of sky fibers = 15
PLATE=0655 MJD=52162 sdR-r2-00010853.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

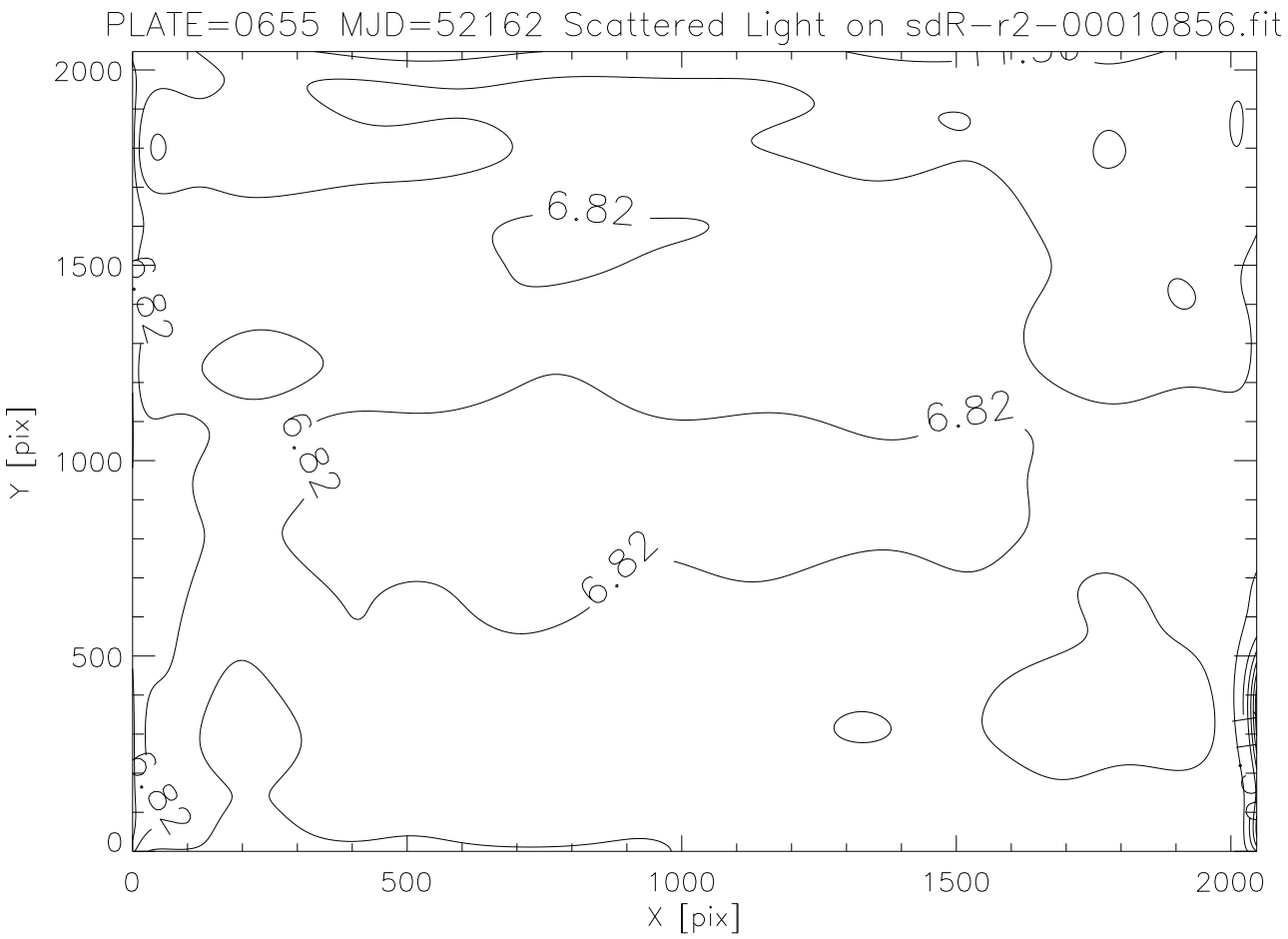

PLATE=0655 MJD=52162 sdR-r2-00010853.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.75 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

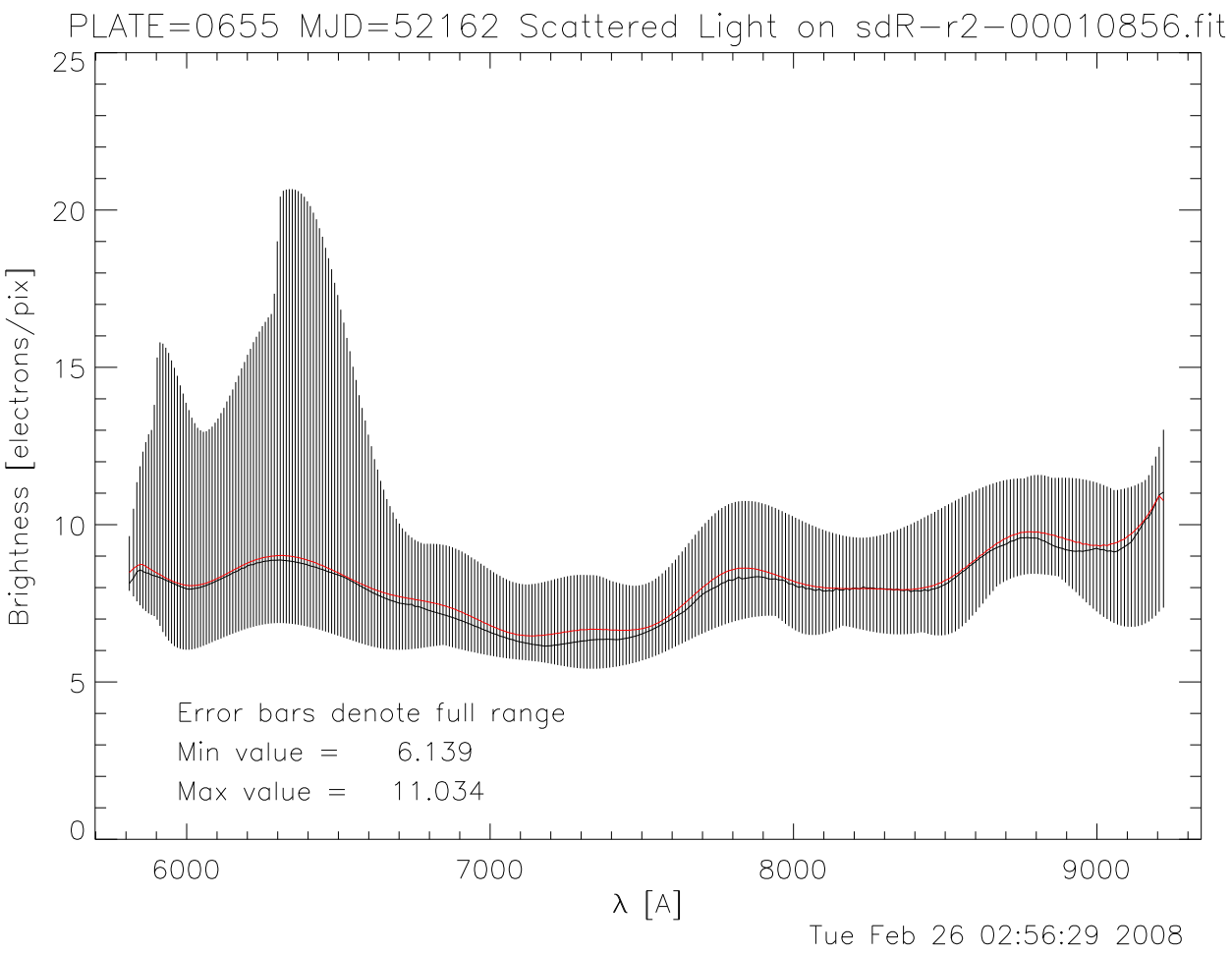

PLATE=0655 MJD=52162 sdR-r2-00010853.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.57 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

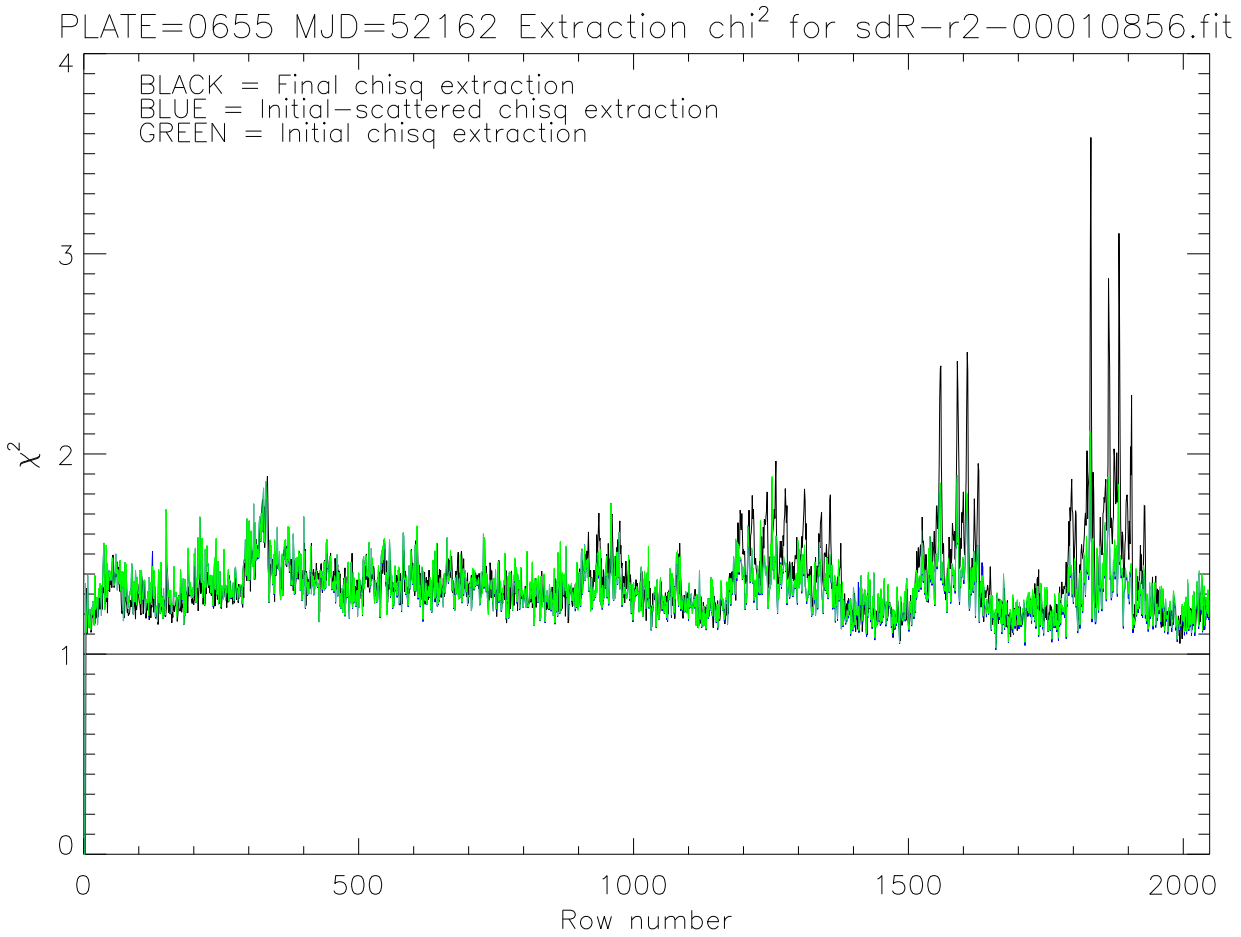

PLATE=0655 MJD=52162 Fiber-Flats for sdR-r2-00010854.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.547
Max value = 1.177
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Tue Feb 26 02:52:37 2008

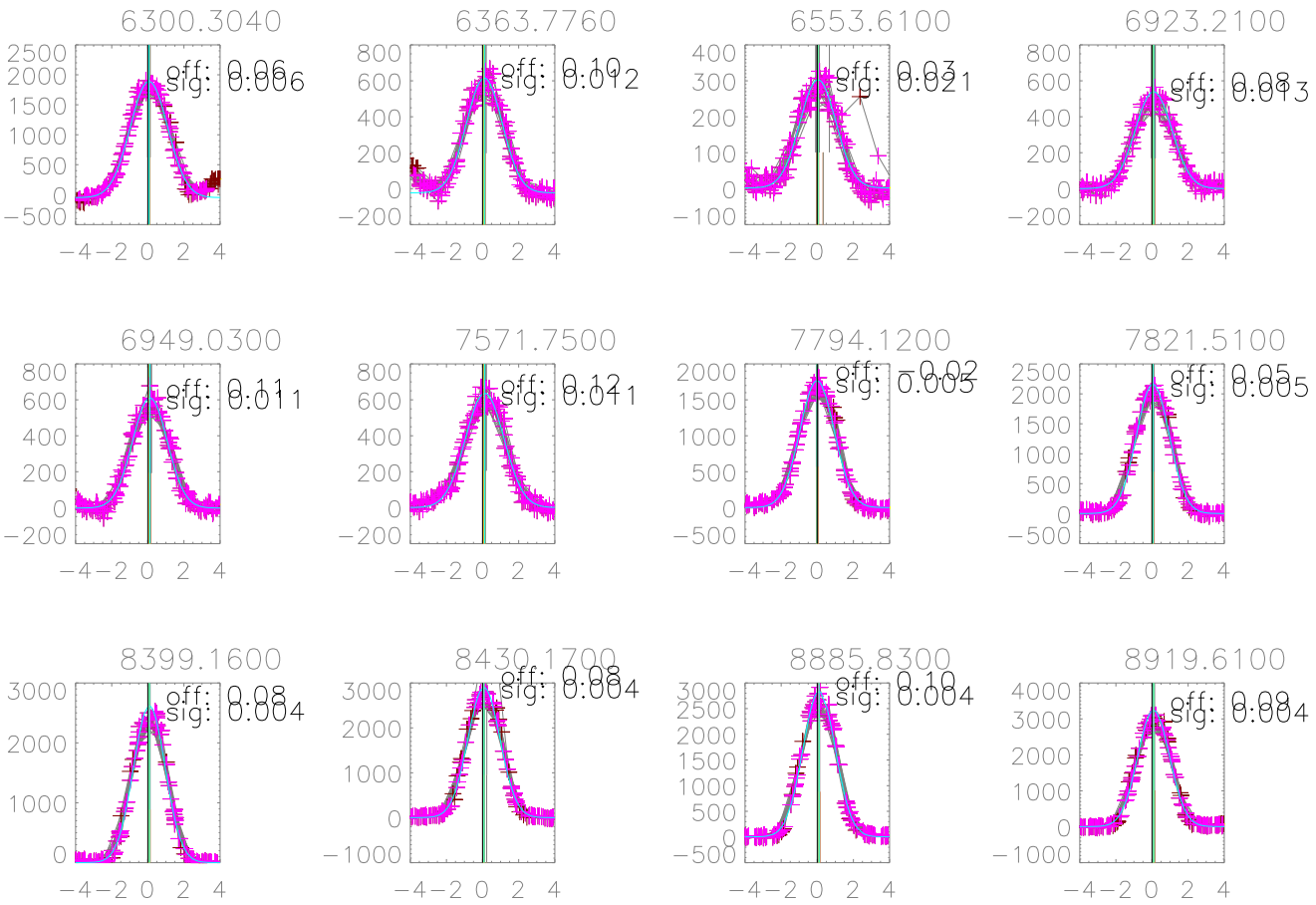

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-r2-00010856.fi
25.5
32.7
25.5
25.5
18.2
18.2
10.9
10.9
10.9
10.9
10.9
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

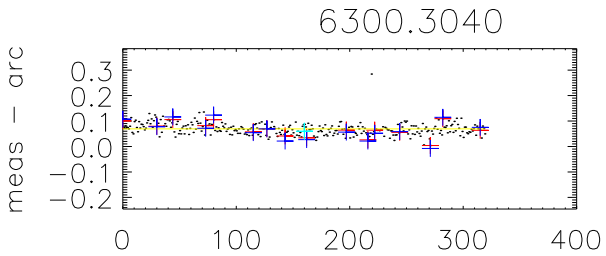

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-r2-00010856.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.987
Max value = 33.558
Tue Feb 26 02:53:28 2008

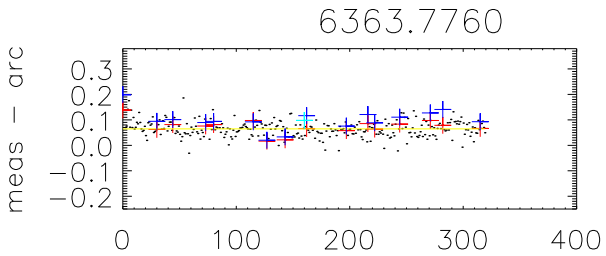

PLATE=0655 MJD=52162 Scattered Light on sdR-r2-00010856.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
6.82
6.82
6.82
6.82
6.82
6.82
0
0
0

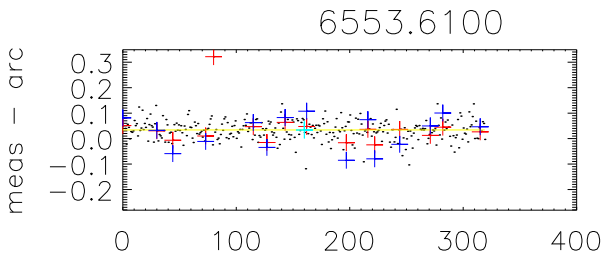

PLATE=0655 MJD=52162 Scattered Light on sdR-r2-00010856.fit
Brightness [electrons/pix]
25
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 6.139
Max value = 11.034
Tue Feb 26 02:56:29 2008

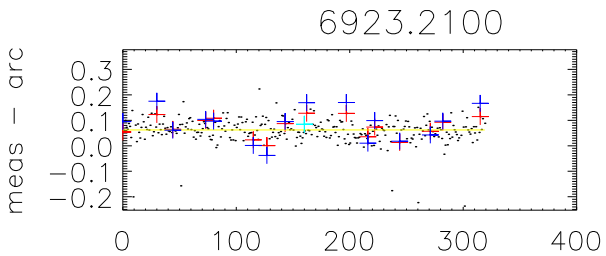

PLATE=0655 MJD=52162 Extraction chi^2 for sdR−r2−00010856.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

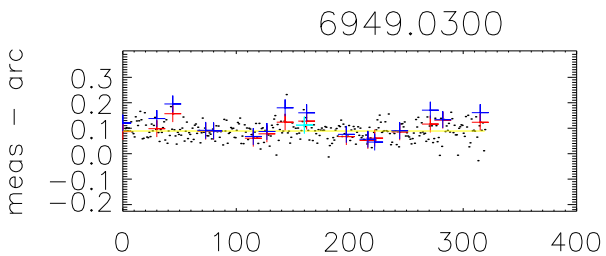

6300.3040
off: 0.06
sig: 0.006
6363.7760
off: 0.10
sig: 0.012
6553.6100
off: 0.03
sig: 0.021
6923.2100
off: 0.08
sig: 0.013
6949.0300
off: 0.11
sig: 0.011
7571.7500
off: 0.12
sig: 0.011
7794.1200
off: −0.02
sig: 0.005
7821.5100
off: 0.05
sig: 0.005
8399.1600
off: 0.08
sig: 0.004
8430.1700
off: 0.08
sig: 0.004
8885.8300
off: 0.10
sig: 0.004
8919.6100
off: 0.08
sig: 0.004

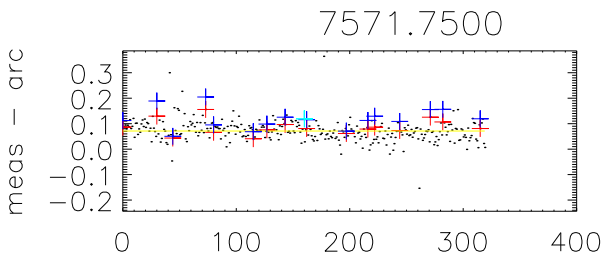

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

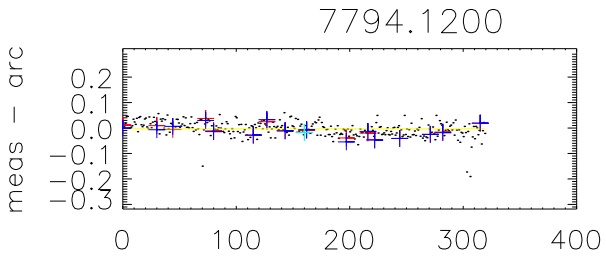

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

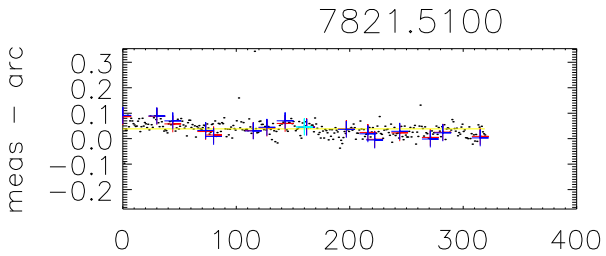

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

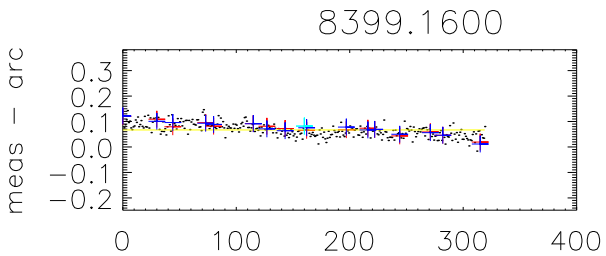

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

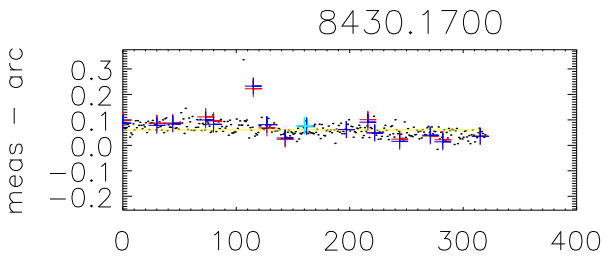

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

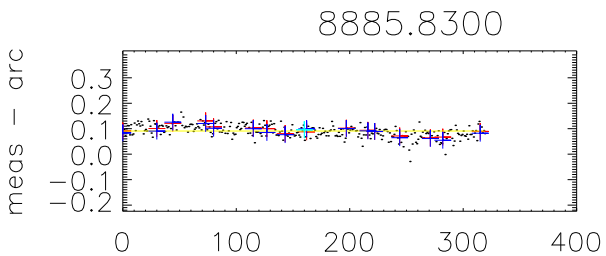

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

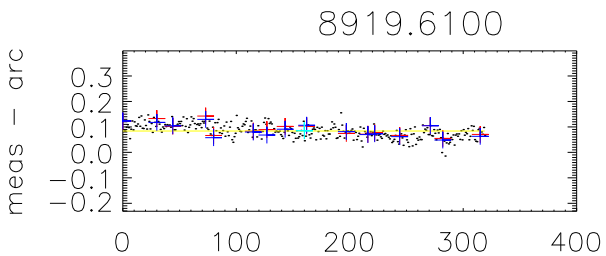

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

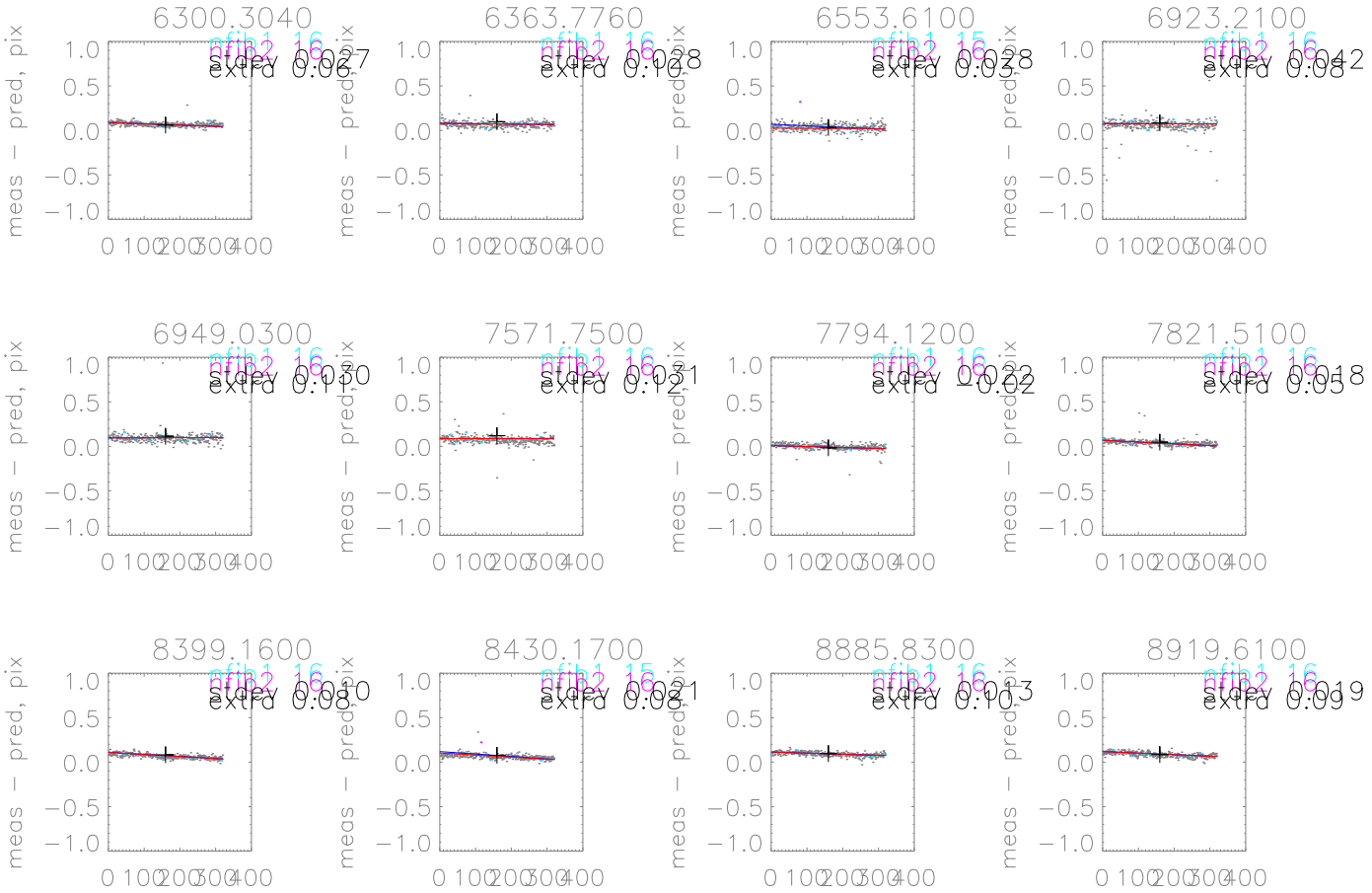

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

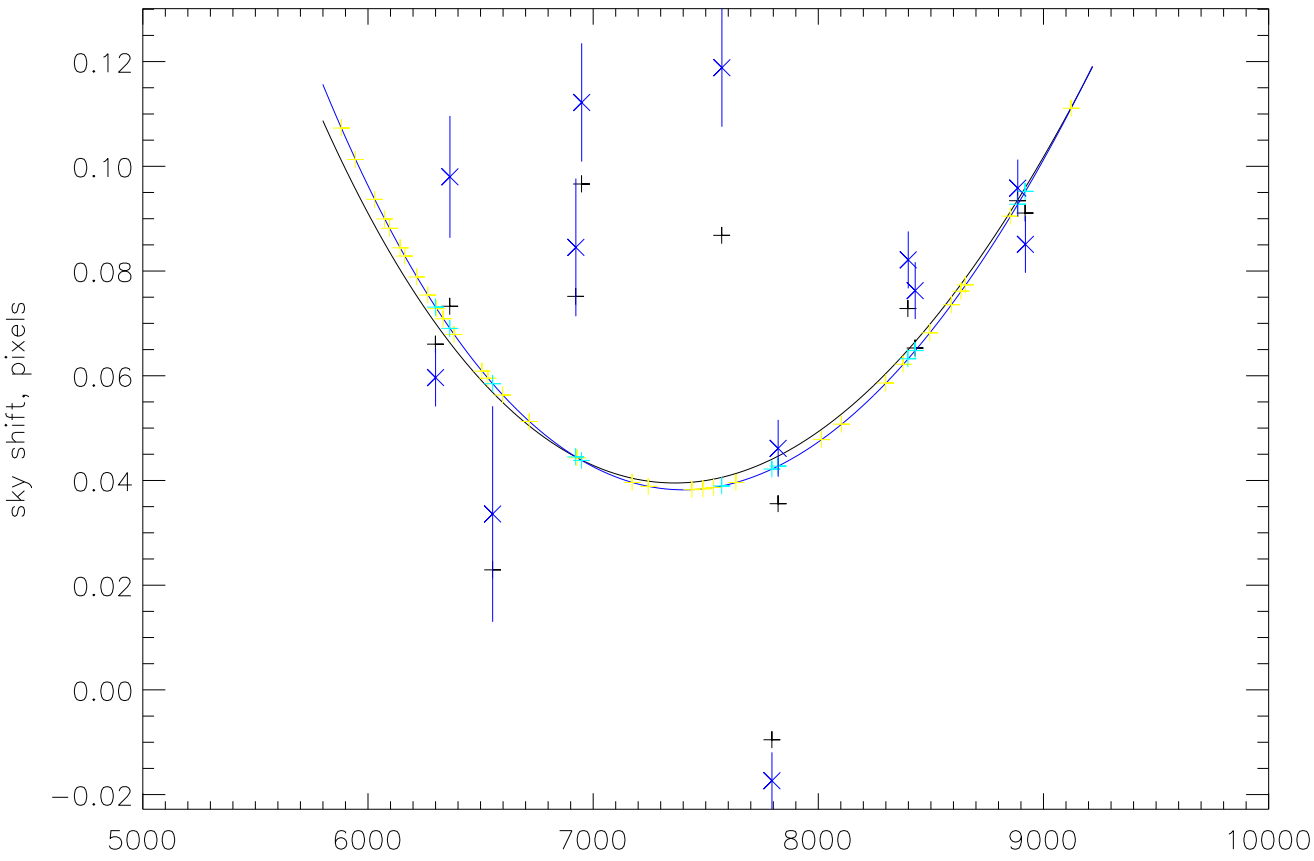

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

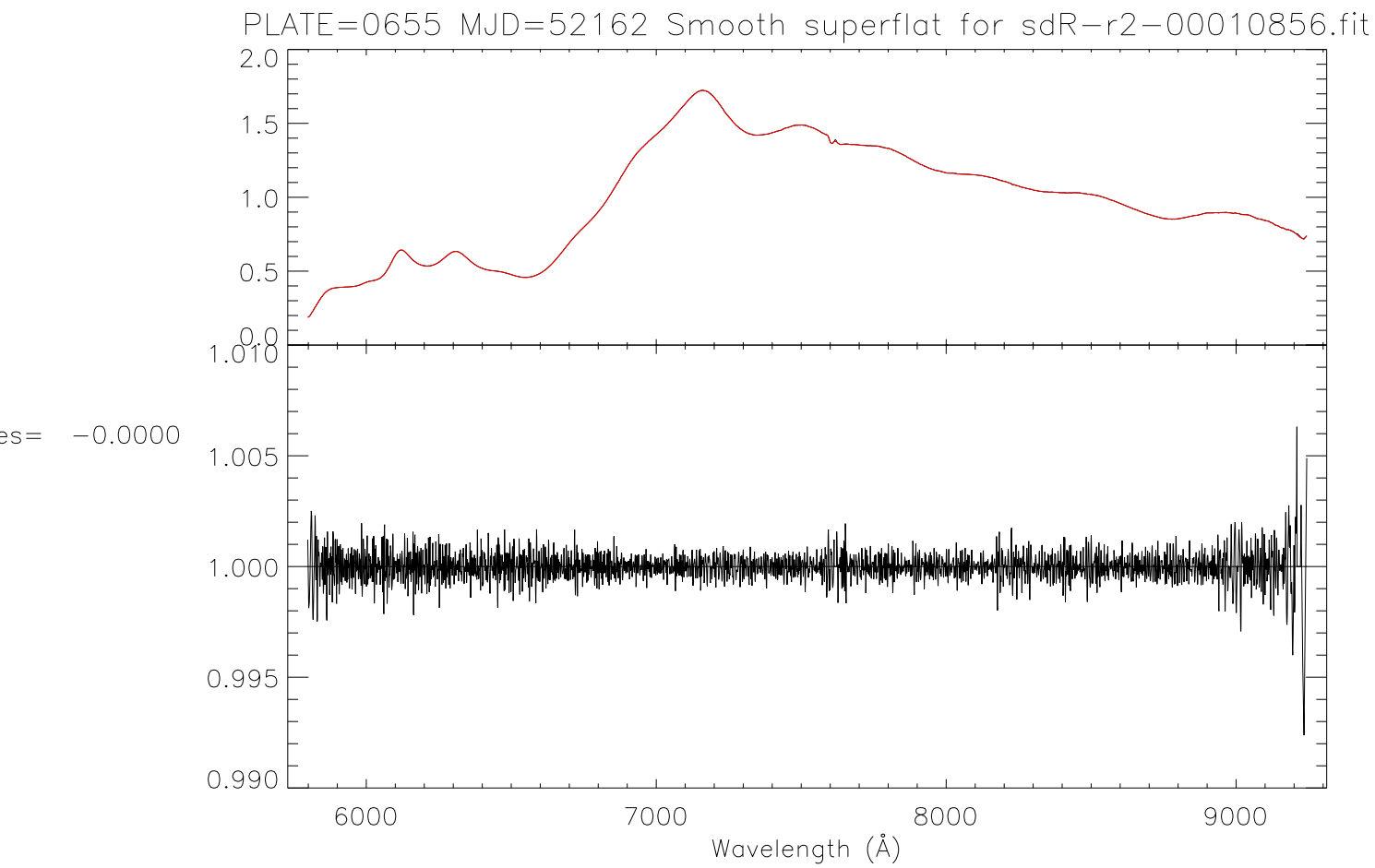

8430.1700
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

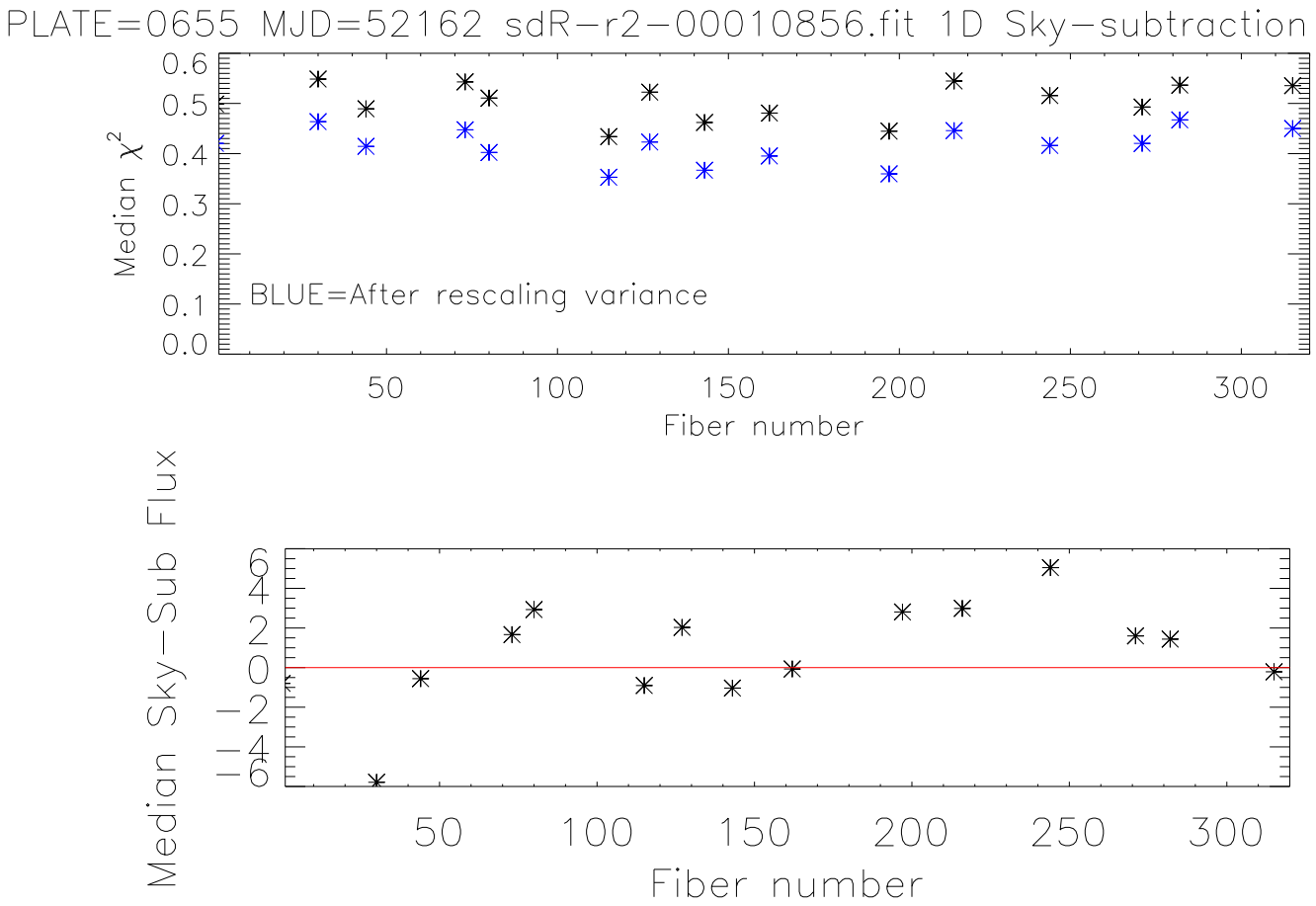

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

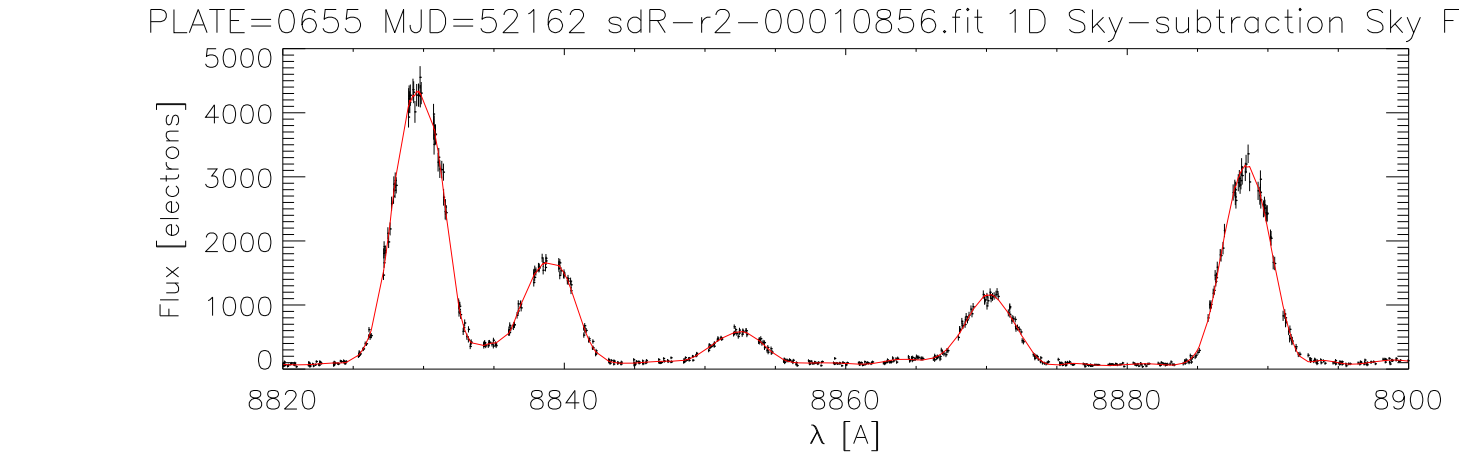

6300.3040
mfib1 16
mfib2 16
stdev 0.027
extra 0.06
6363.7760
mfib1 16
mfib2 16
stdev 0.028
extra 0.16
6553.6100
mfib1 15
mfib2 16
stdev 0.028
extra 0.03
6923.2100
mfib1 16
mfib2 16
stdev 0.042
extra 0.08
6949.0300
mfib1 16
mfib2 16
stdev 0.030
extra 0.11
7571.7500
mfib1 16
mfib2 16
stdev 0.031
extra 0.12
7794.1200
mfib1 16
mfib2 16
stdev 0.032
extra −0.02
7821.5100
mfib1 16
mfib2 16
stdev 0.018
extra 0.05
8399.1600
mfib1 16
mfib2 16
stdev 0.040
extra 0.08
8430.1700
mfib1 15
mfib2 16
stdev 0.021
extra 0.08
8885.8300
mfib1 16
mfib2 16
stdev 0.013
extra 0.10
8919.6100
mfib1 16
mfib2 16
stdev 0.019
extra 0.09
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

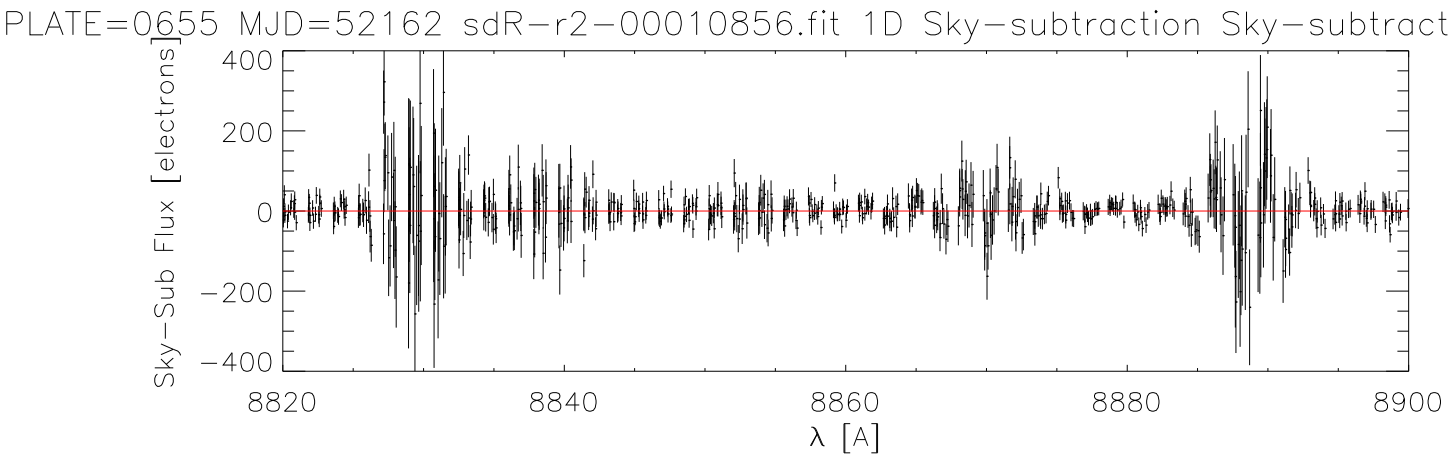

sky shift, pixels
0.12
0.10
0.08
0.06
0.04
0.02
0.00
−0.02
5000
6000
7000
8000
9000
10000

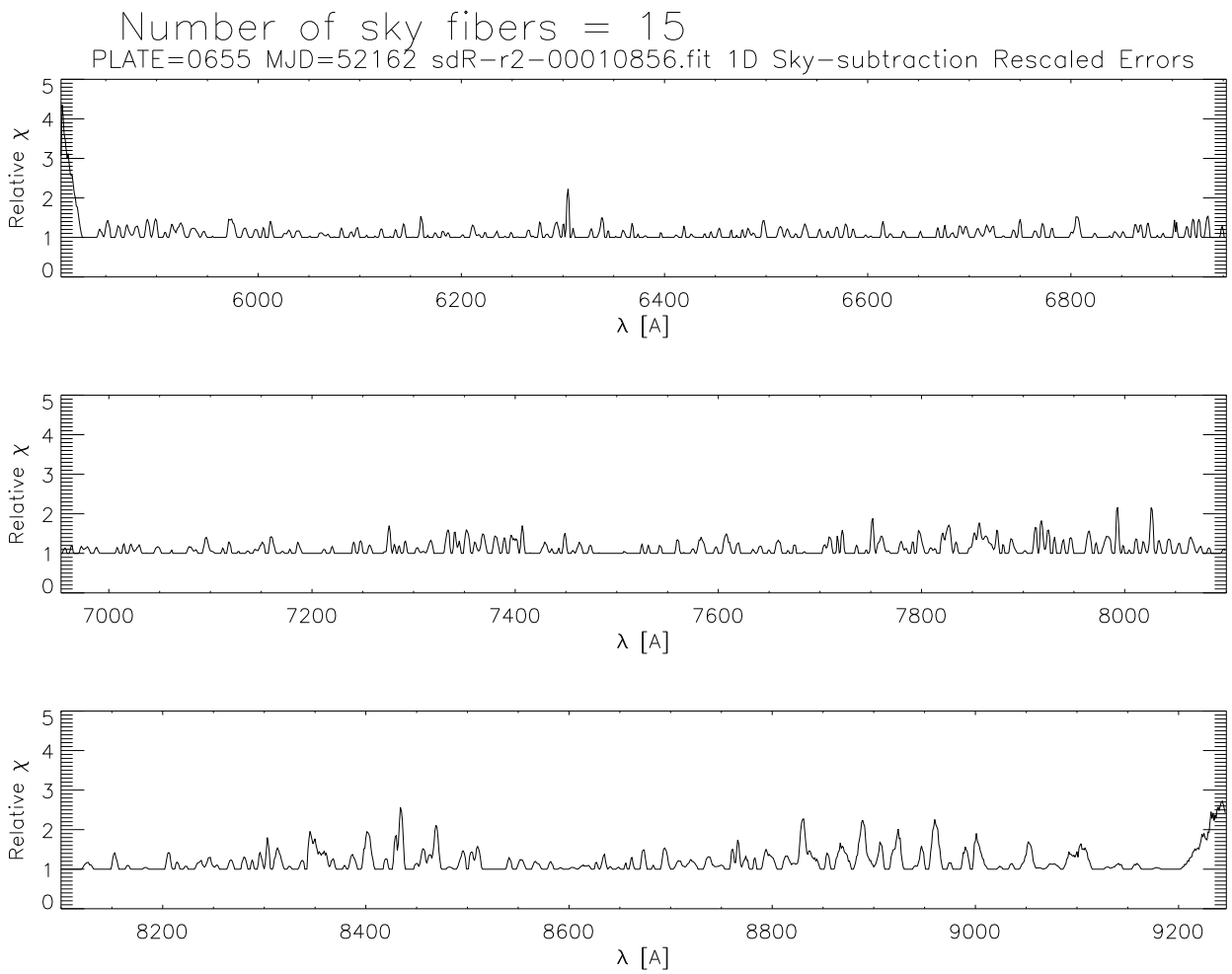

PLATE=0655 MJD=52162 Smooth superflat for sdR-r2-00010856.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

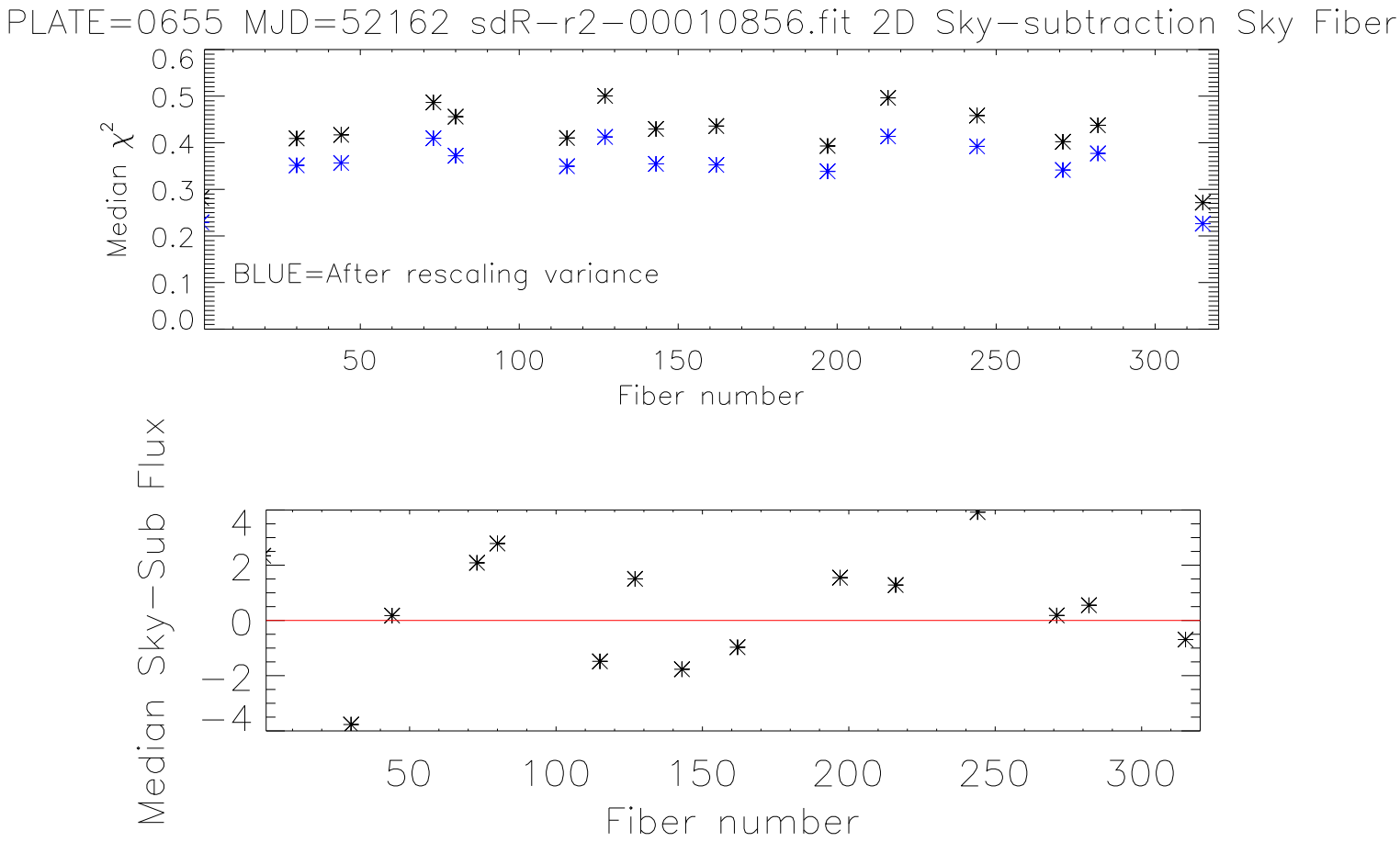
es= −0.0000

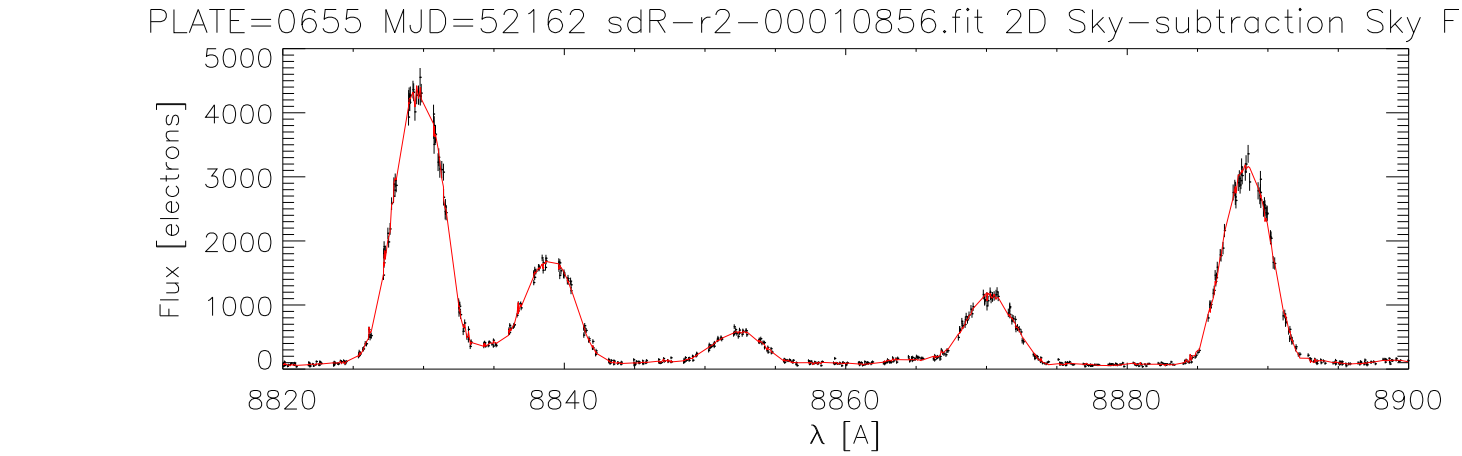

PLATE=0655 MJD=52162 sdR-r2-00010856.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

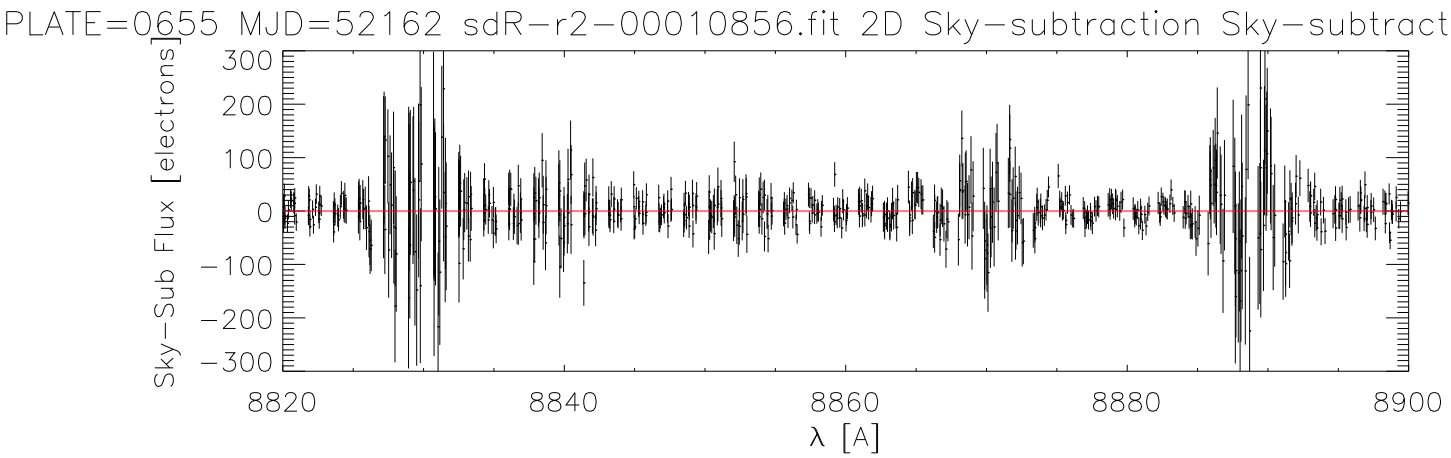

PLATE=0655 MJD=52162 sdR-r2-00010856.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

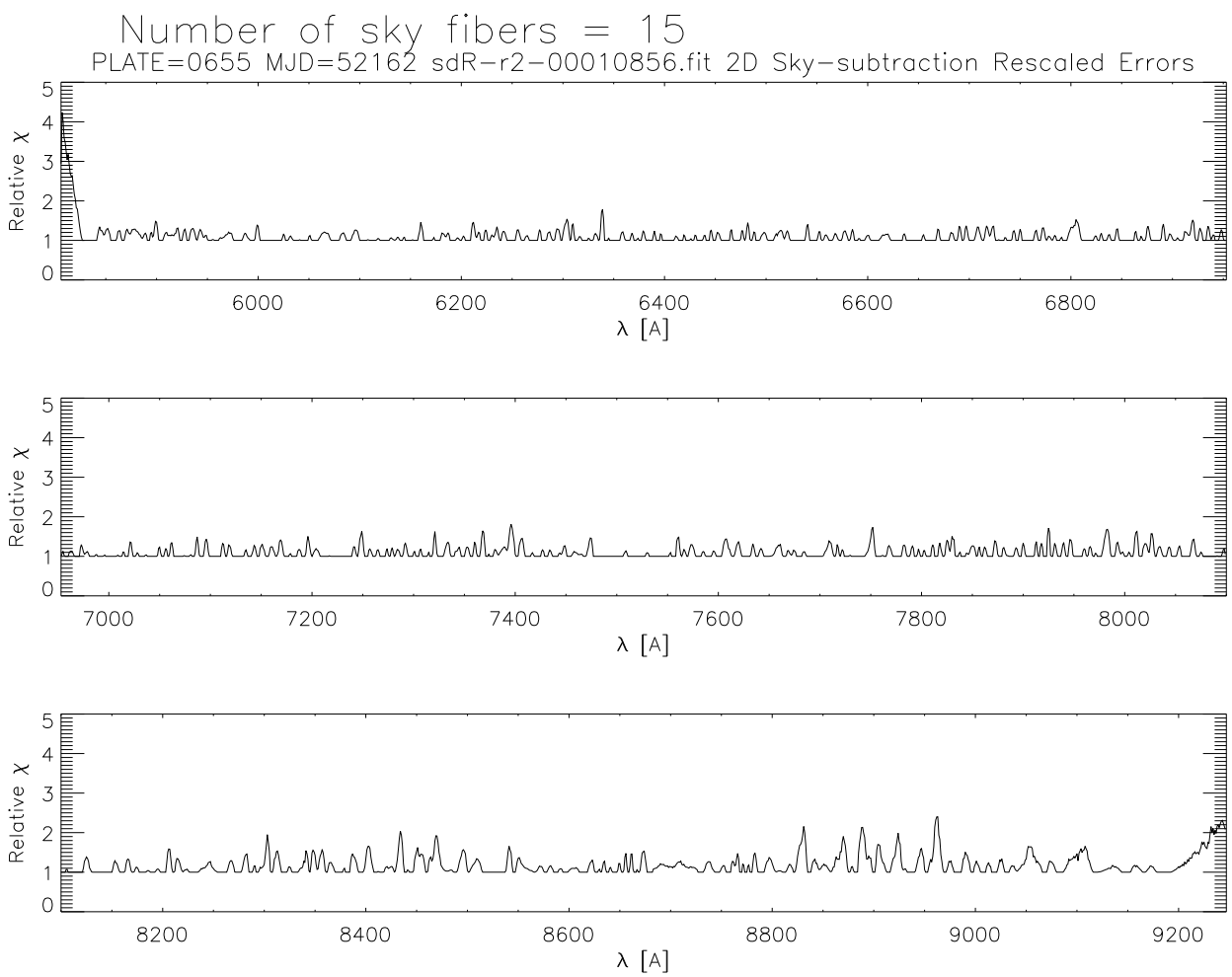

PLATE=0655 MJD=52162 sdR-r2-00010856.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

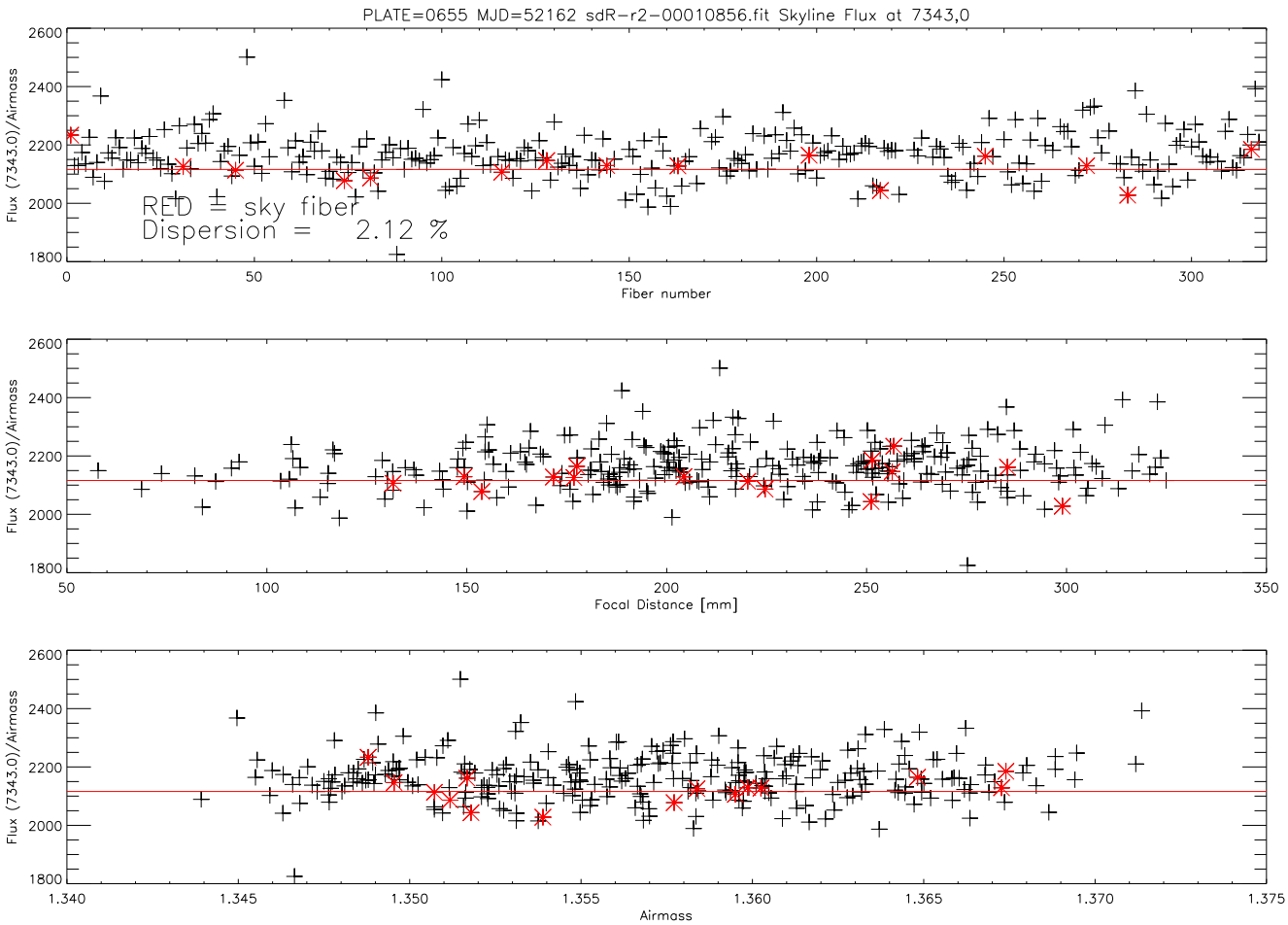

Number of sky fibers = 15
PLATE=0655 MJD=52162 sdR-r2-00010856.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

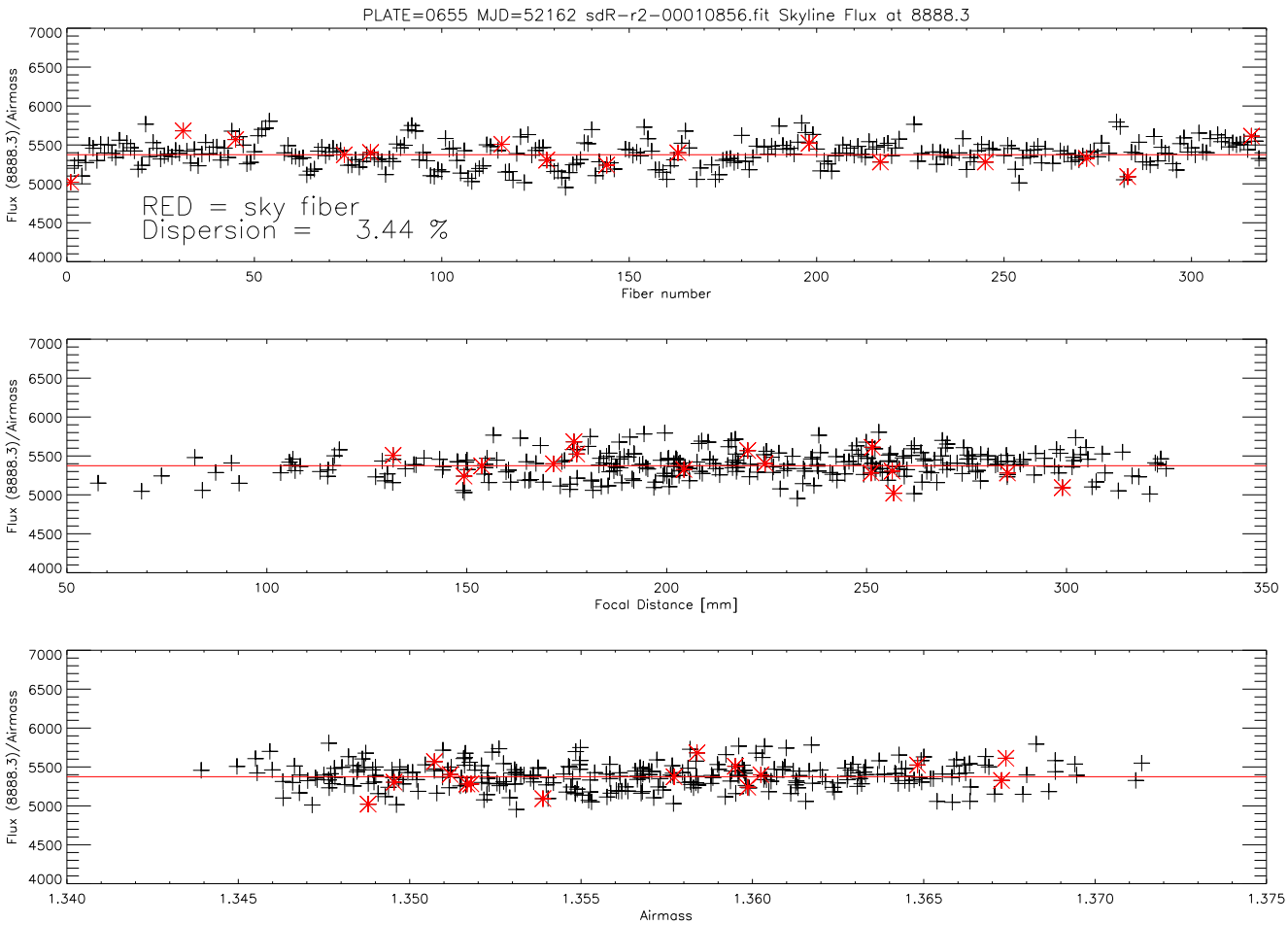

PLATE=0655 MJD=52162 sdR-r2-00010856.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

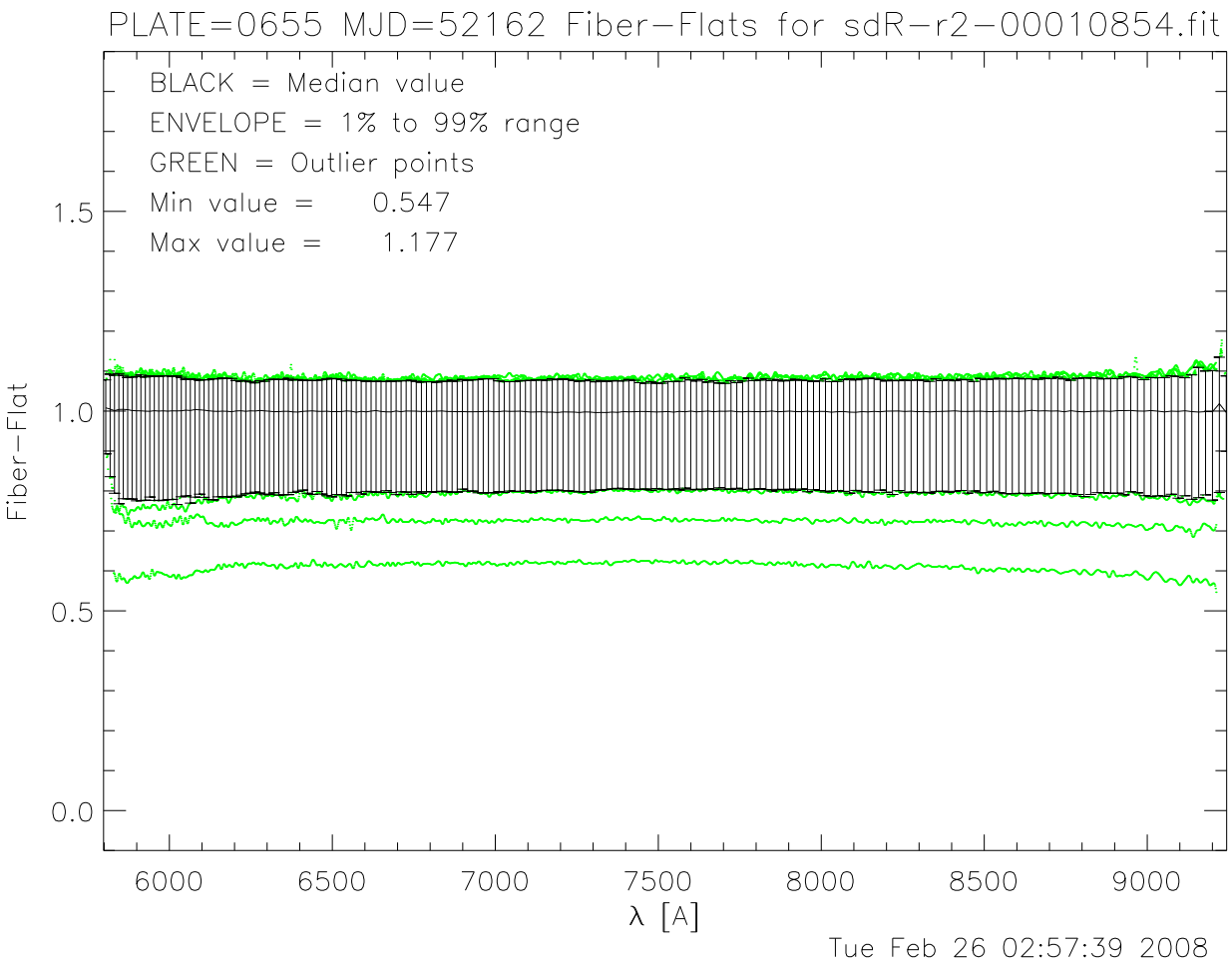

PLATE=0655 MJD=52162 sdR-r2-00010856.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

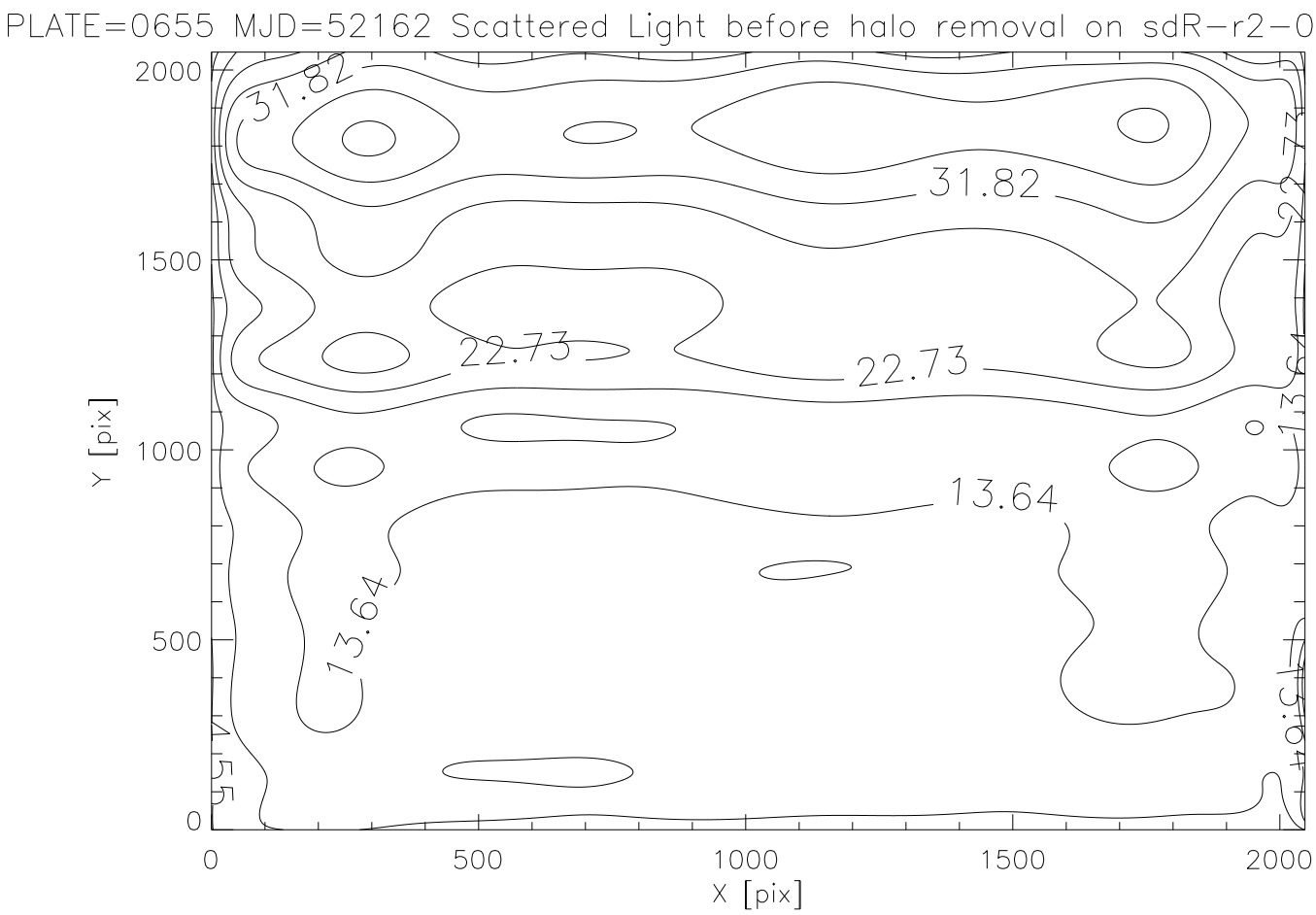

PLATE=0655 MJD=52162 sdR-r2-00010856.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

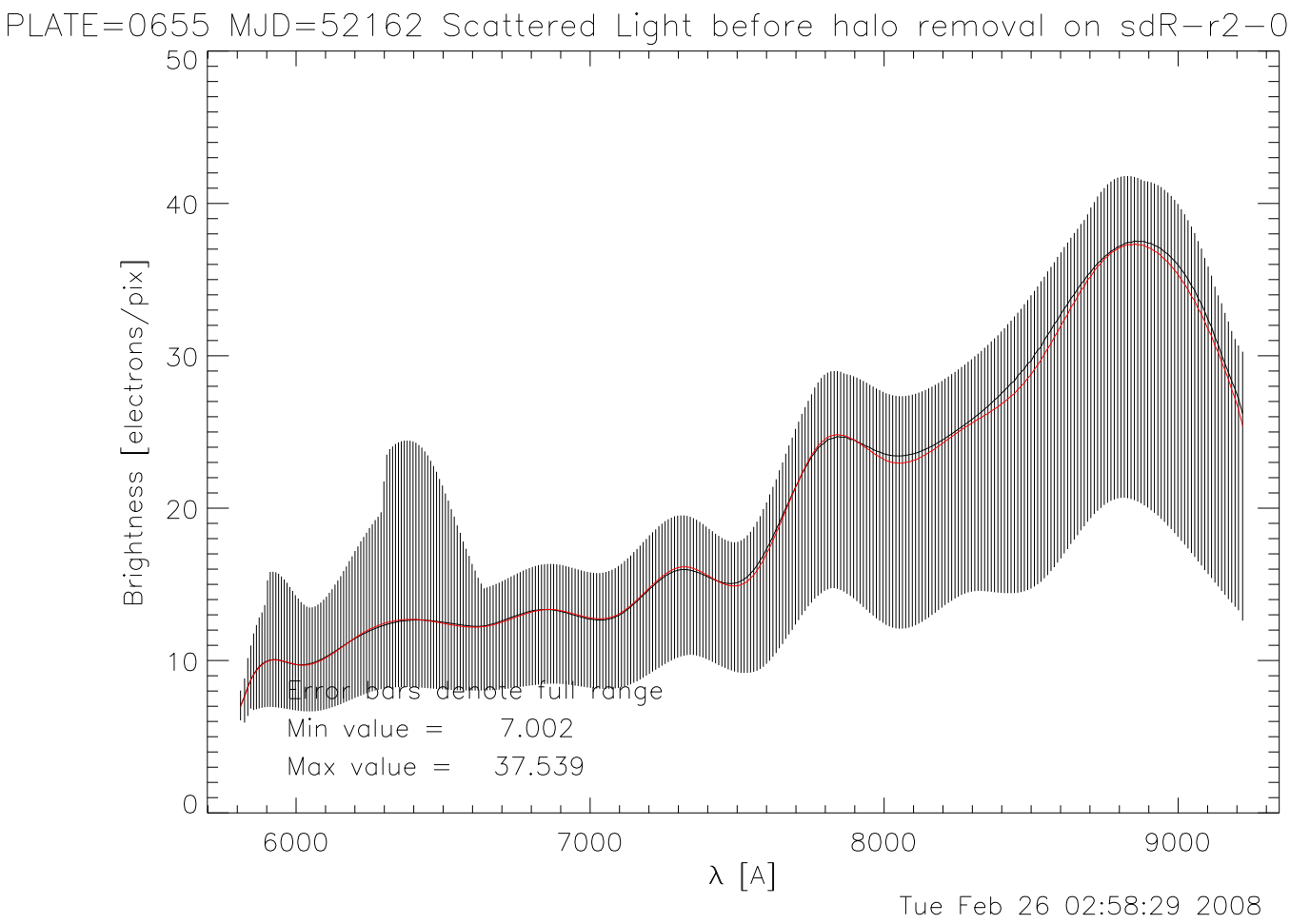

Number of sky fibers = 15
PLATE=0655 MJD=52162 sdR-r2-00010856.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

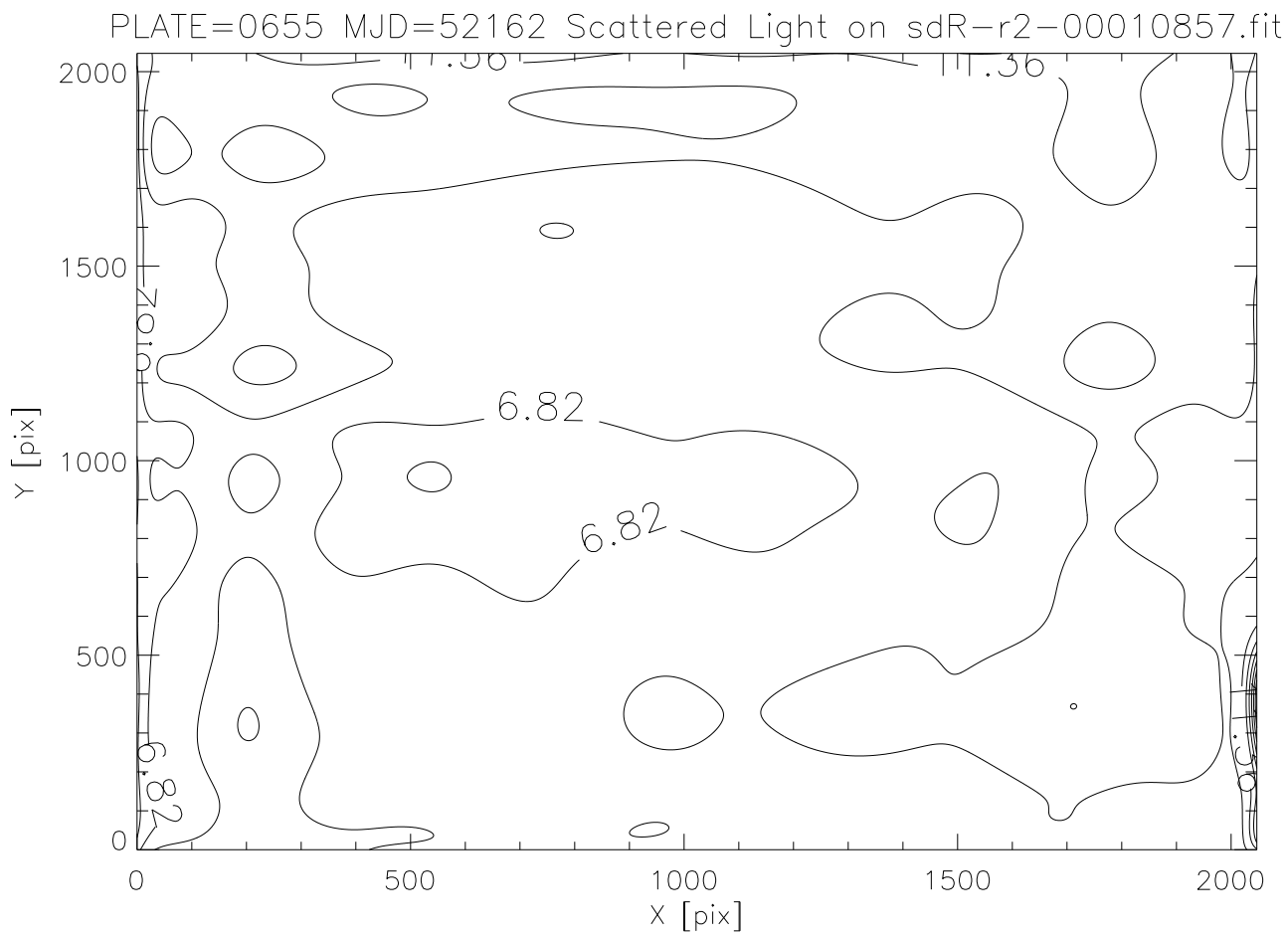

PLATE=0655 MJD=52162 sdR-r2-00010856.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.12 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

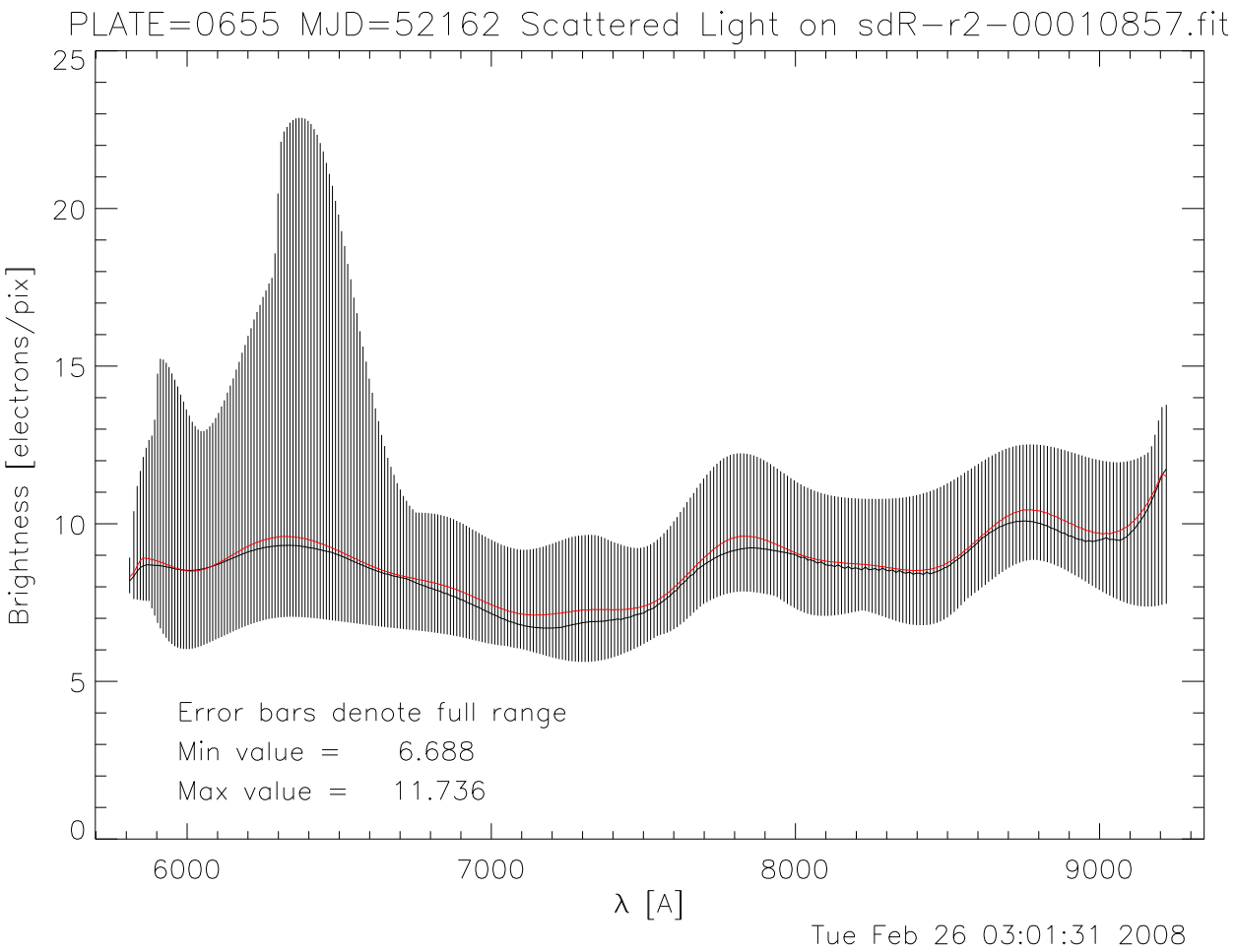

PLATE=0655 MJD=52162 sdR-r2-00010856.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.44 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

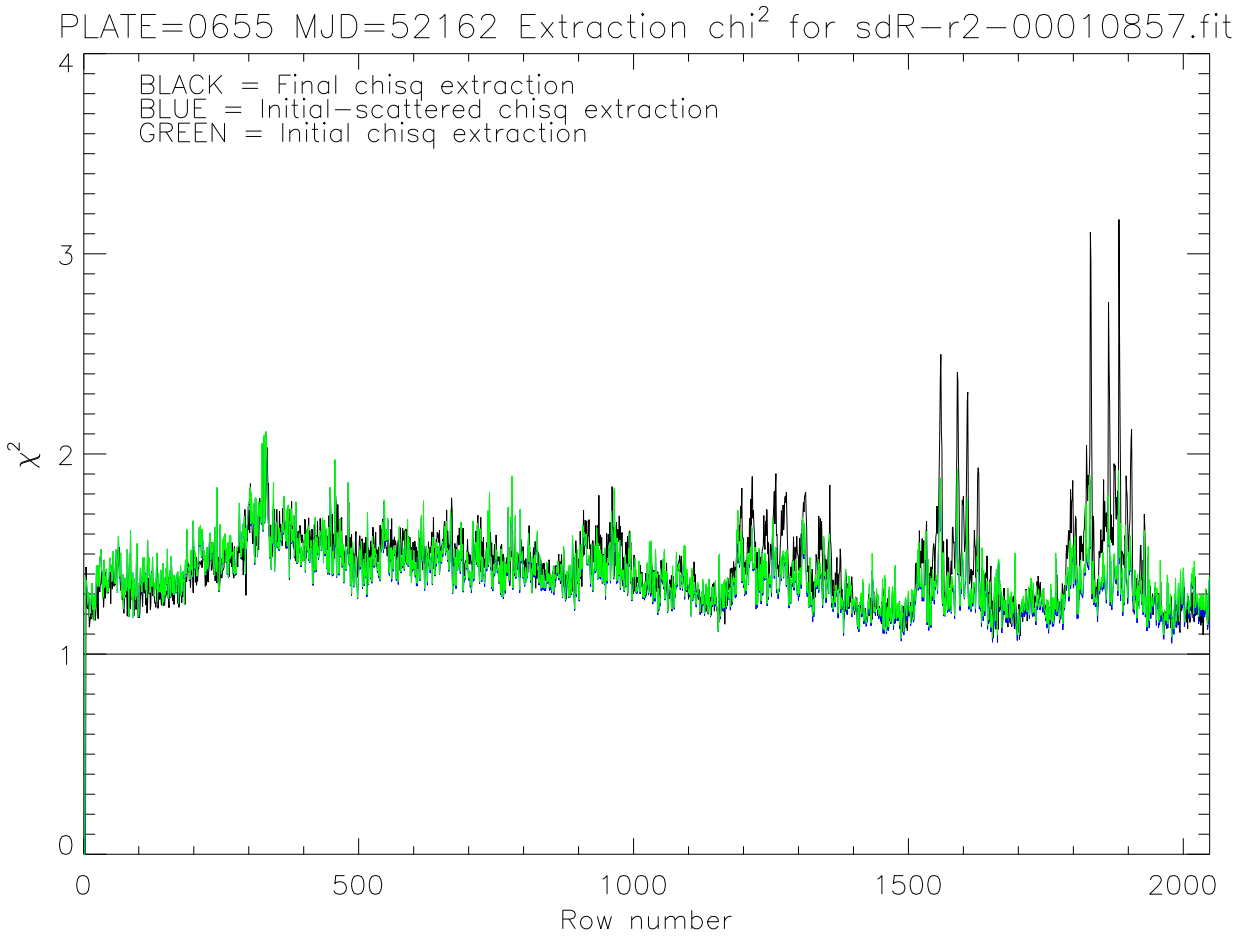

PLATE=0655 MJD=52162 Fiber-Flats for sdR-r2-00010854.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.547
Max value = 1.177
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Tue Feb 26 02:57:39 2008

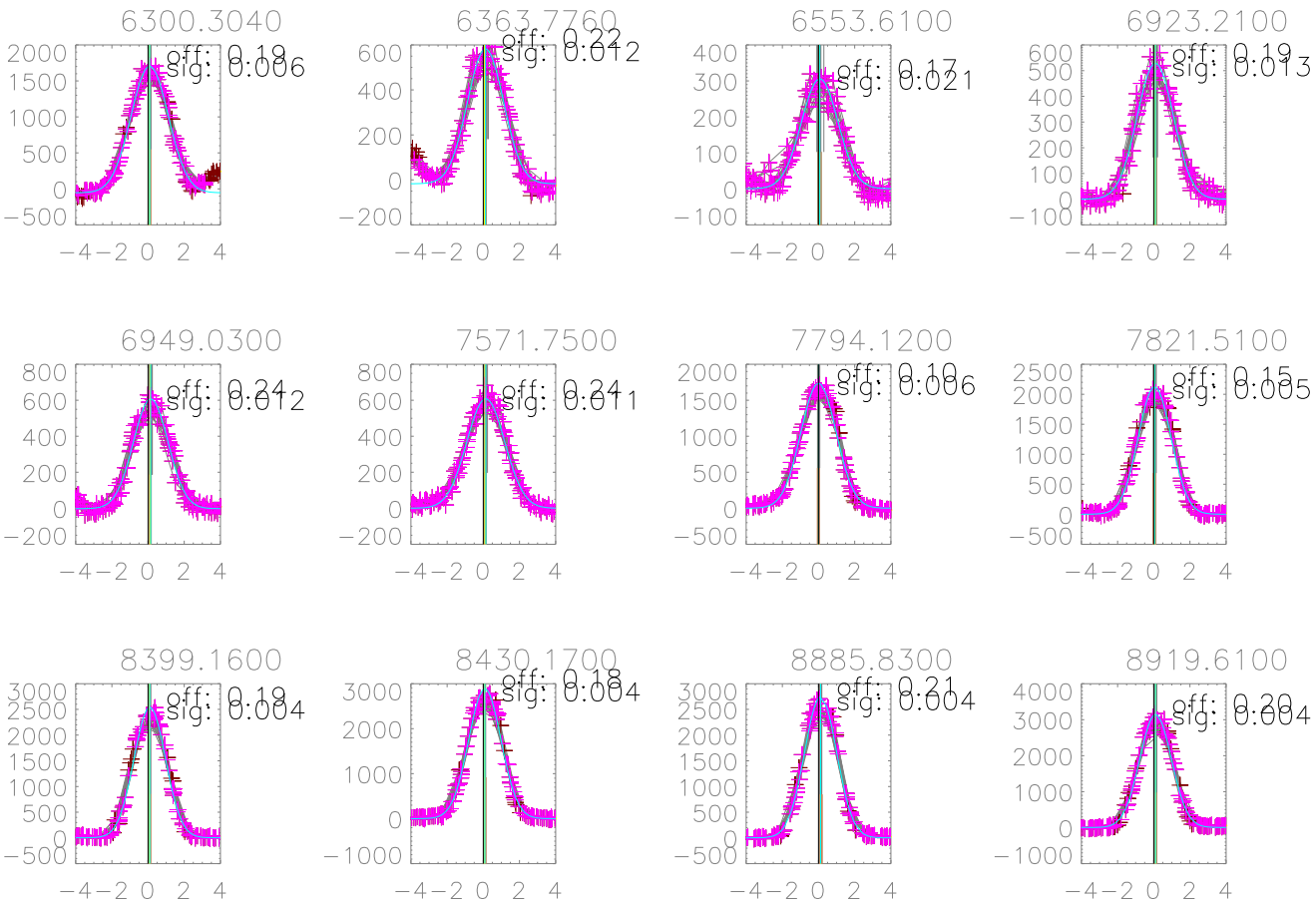

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-r2-00010857.fi
31.82
22.73
13.64
0
Y [pix]
X [pix]
0
500
1000
1500
2000

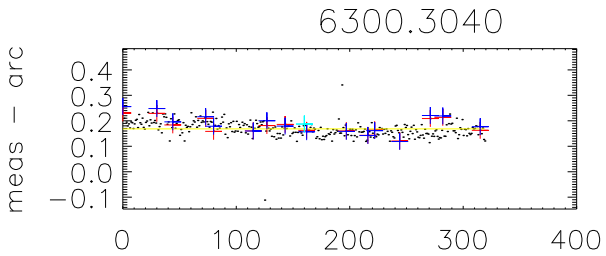

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-r2-00010857.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.002
Max value = 37.539
Tue Feb 26 02:58:29 2008

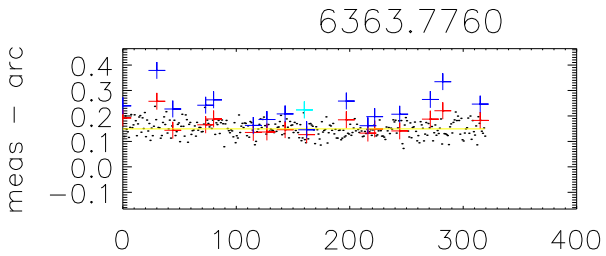

PLATE=0655 MJD=52162 Scattered Light on sdR-r2-00010857.fit
11.36
11.36
6.82
6.82
6.82
6.82
11.36
0
500
1000
1500
2000
Y [pix]
X [pix]

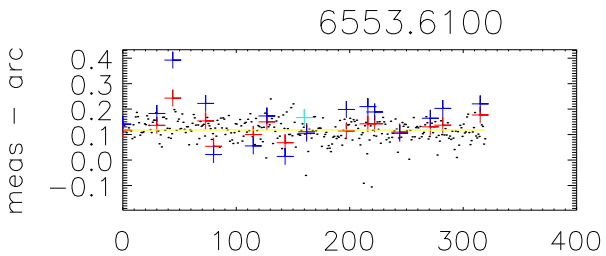

PLATE=0655 MJD=52162 Scattered Light on sdR-r2-00010857.fit
Brightness [electrons/pix]
25
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 6.688
Max value = 11.736
Tue Feb 26 03:01:31 2008

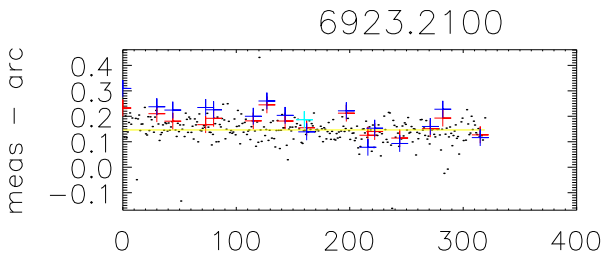

PLATE=0655 MJD=52162 Extraction chi^2 for sdR−r2−00010857.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

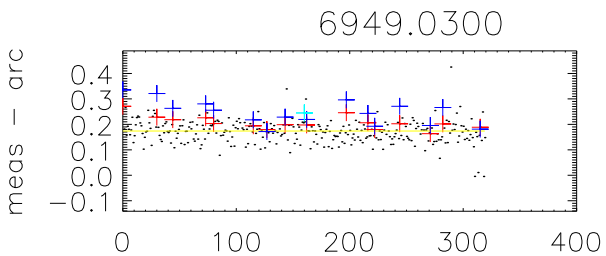

6300.3040
off: 0.19
sig: 0.006
6363.7760
off: 0.22
sig: 0.012
6553.6100
off: 0.17
sig: 0.021
6923.2100
off: 0.19
sig: 0.013
6949.0300
off: 0.24
sig: 0.012
7571.7500
off: 0.24
sig: 0.011
7794.1200
off: 0.10
sig: 0.006
7821.5100
off: 0.15
sig: 0.005
8399.1600
off: 0.19
sig: 0.004
8430.1700
off: 0.18
sig: 0.004
8885.8300
off: 0.21
sig: 0.004
8919.6100
off: 0.20
sig: 0.004

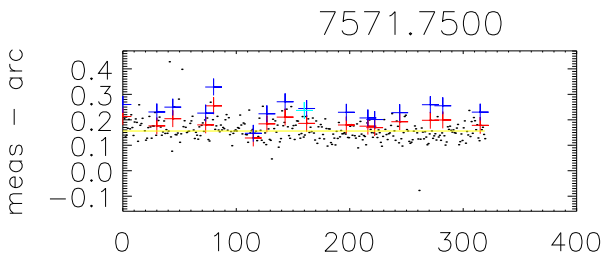

6300.3040
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

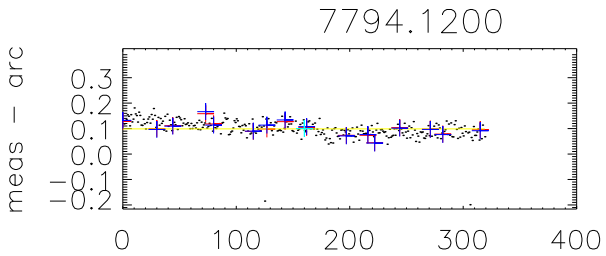

6363.7760
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

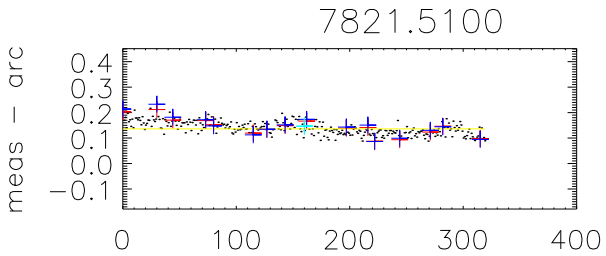

6553.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

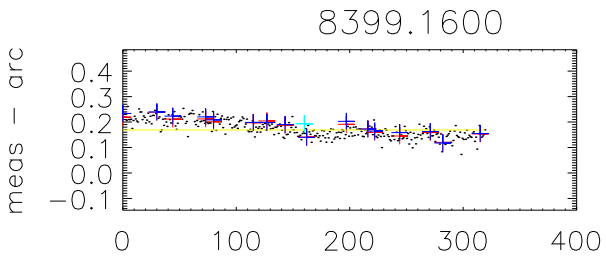

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

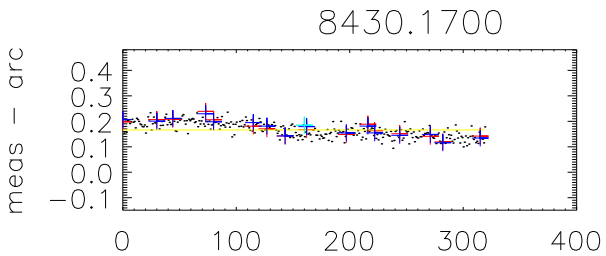

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

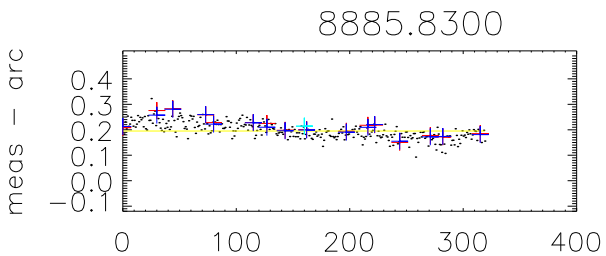

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

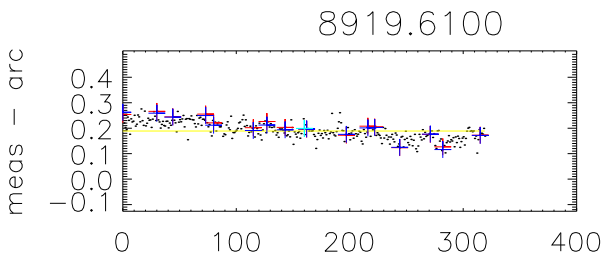

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

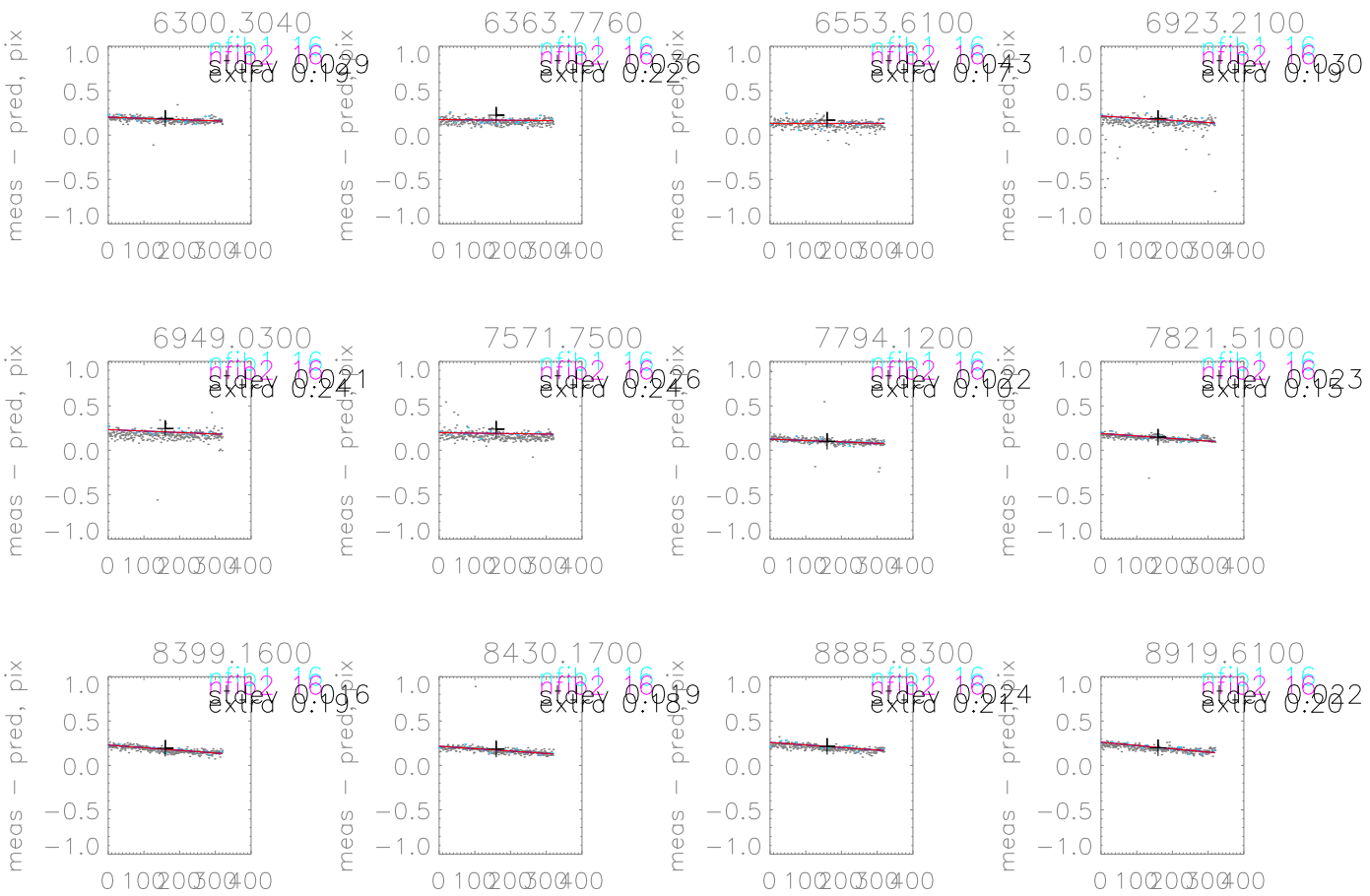

7821.5100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

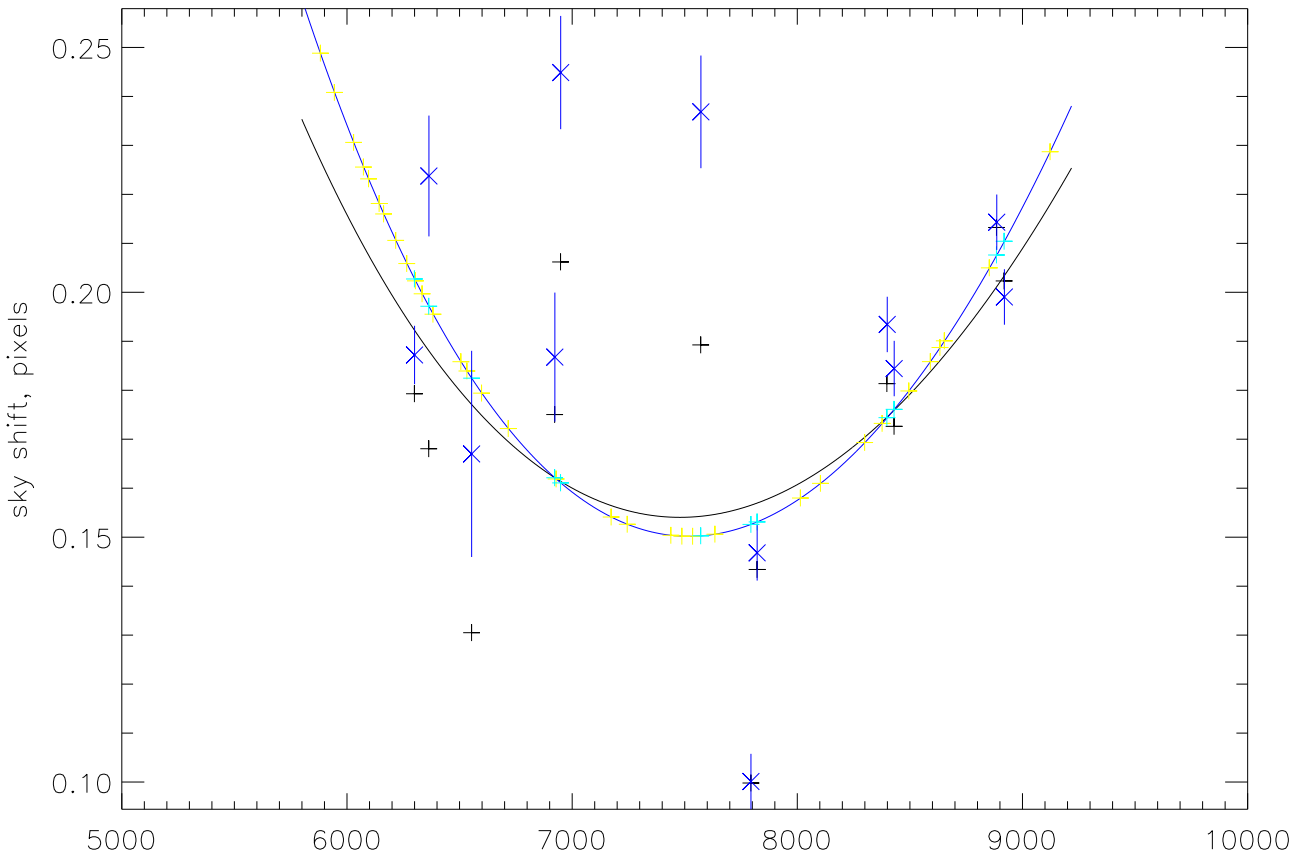

8399.1600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

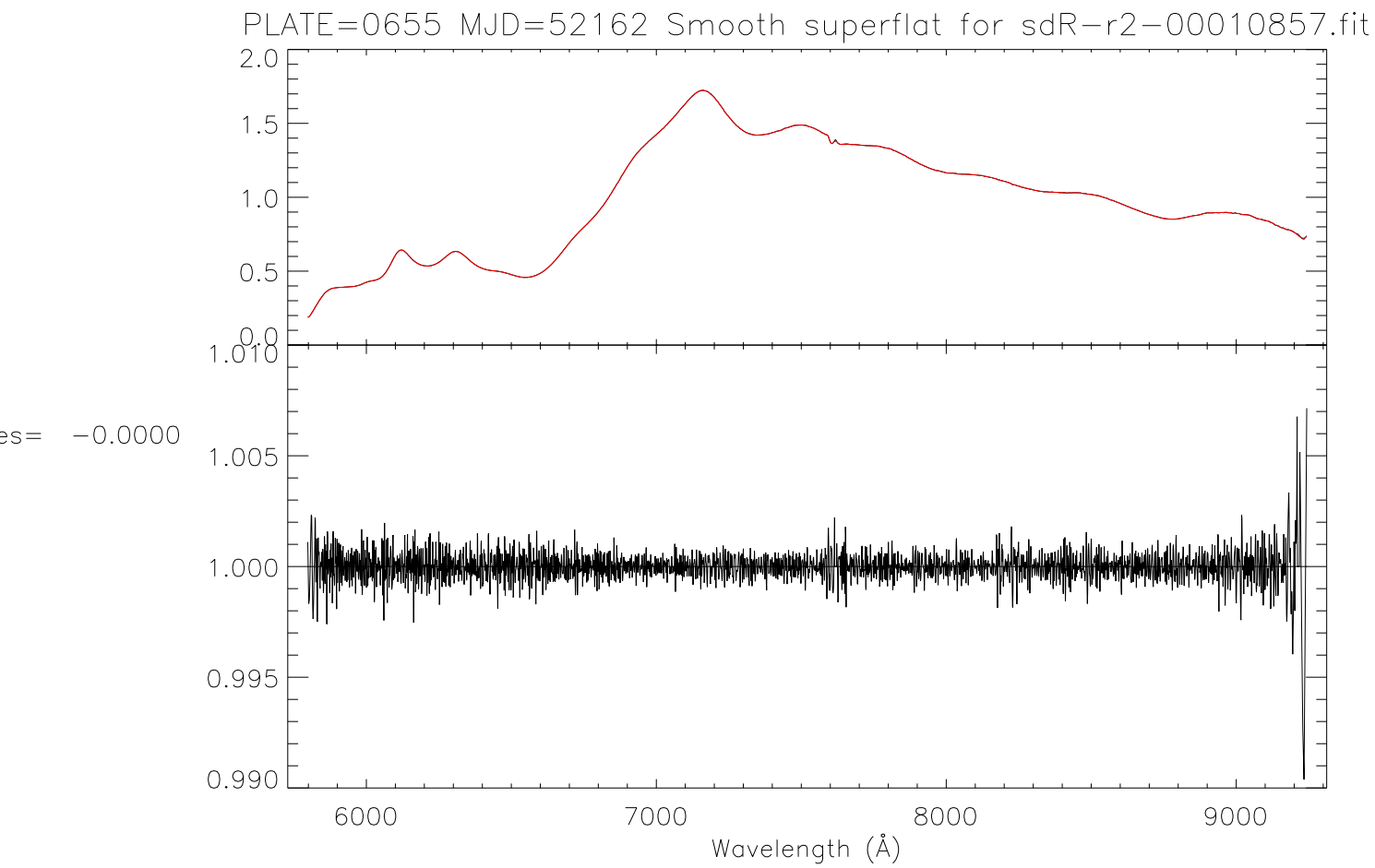

8430.1700
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

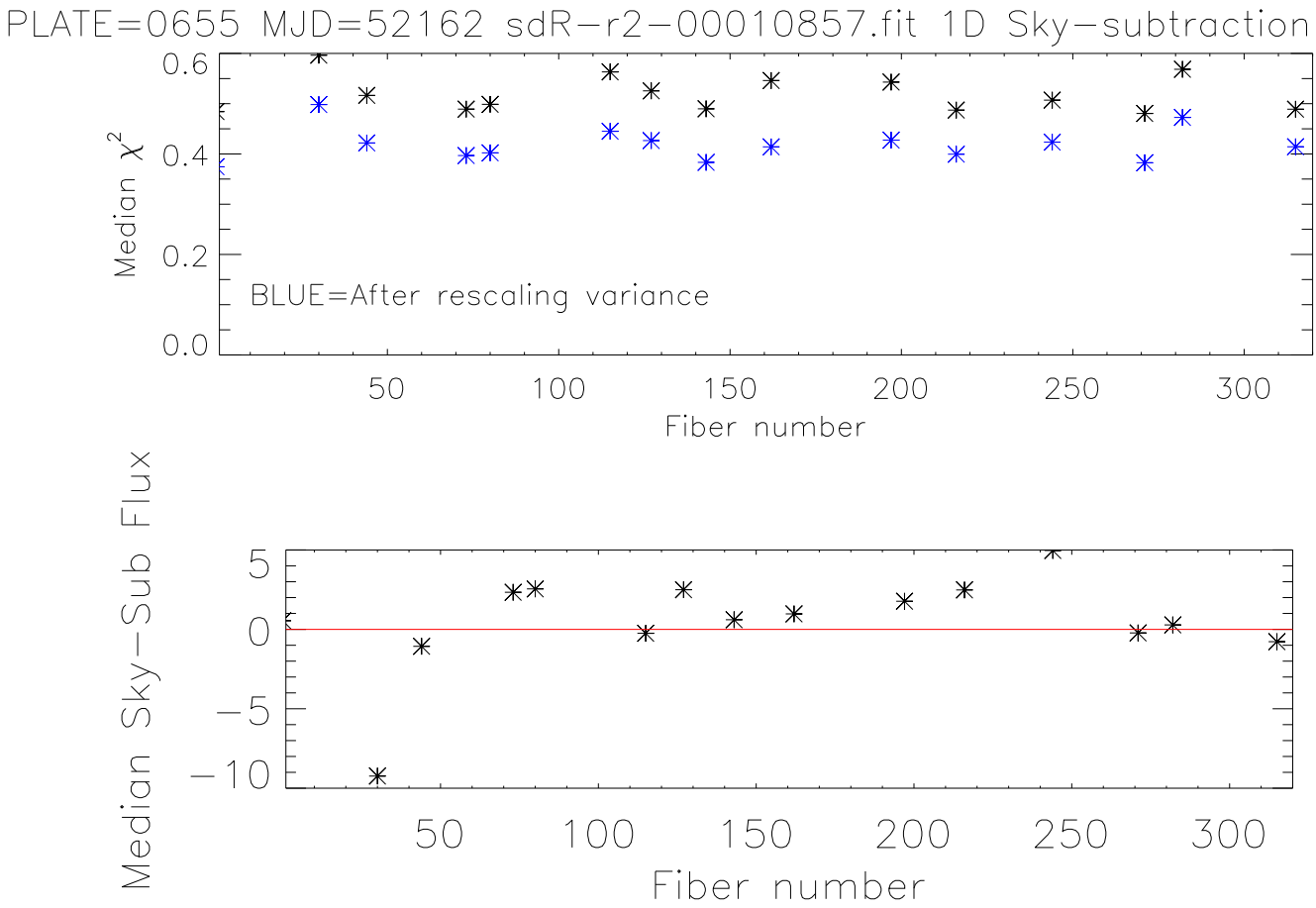

8885.8300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

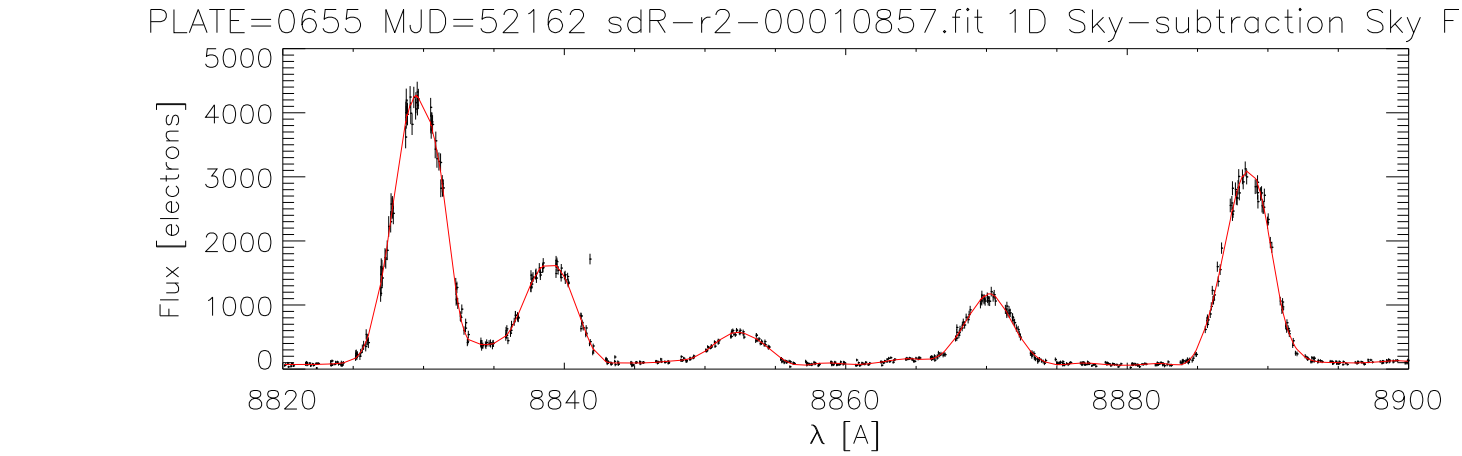

6300.3040
stdev 0.029
extra 0.19
6363.7760
stdev 0.036
extra 0.22
6553.6100
stdev 0.043
extra 0.17
6923.2100
stdev 0.030
extra 0.19
6949.0300
stdev 0.021
extra 0.24
7571.7500
stdev 0.026
extra 0.24
7794.1200
stdev 0.022
extra 0.16
7821.5100
stdev 0.023
extra 0.15
8399.1600
stdev 0.046
extra 0.19
8430.1700
stdev 0.049
extra 0.18
8885.8300
stdev 0.024
extra 0.21
8919.6100
stdev 0.022
extra 0.20
meas − pred, pix
mfhd1 16
mfhd2 16

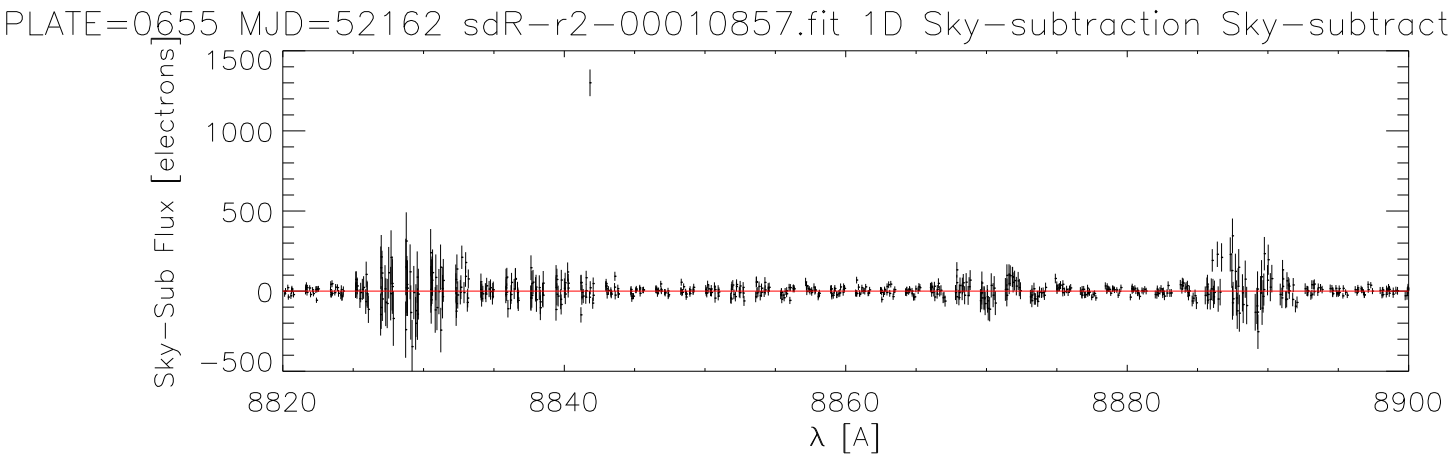

0.25
0.20
0.15
0.10
sky shift, pixels
5000
6000
7000
8000
9000
10000

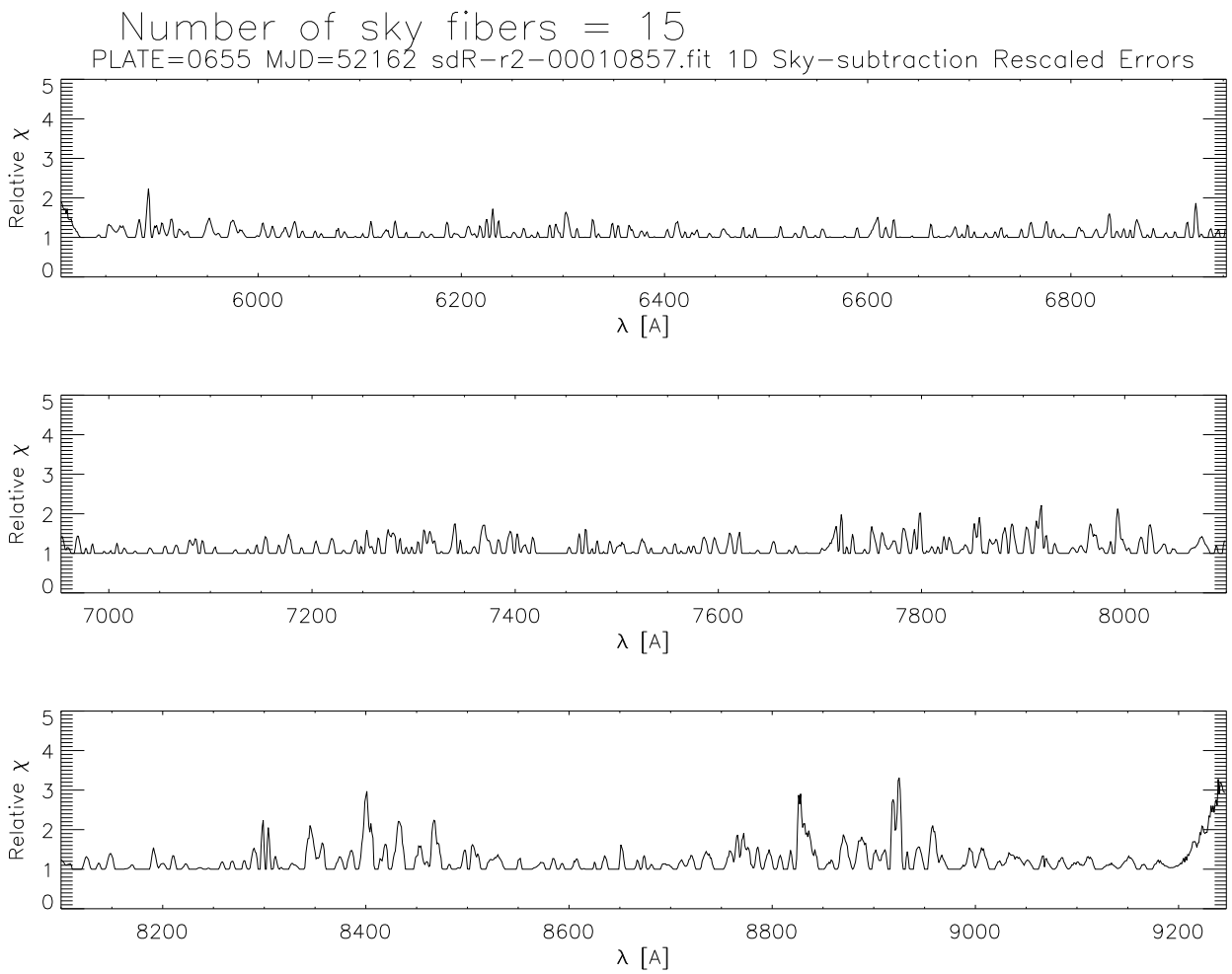

PLATE=0655 MJD=52162 Smooth superflat for sdR-r2-00010857.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

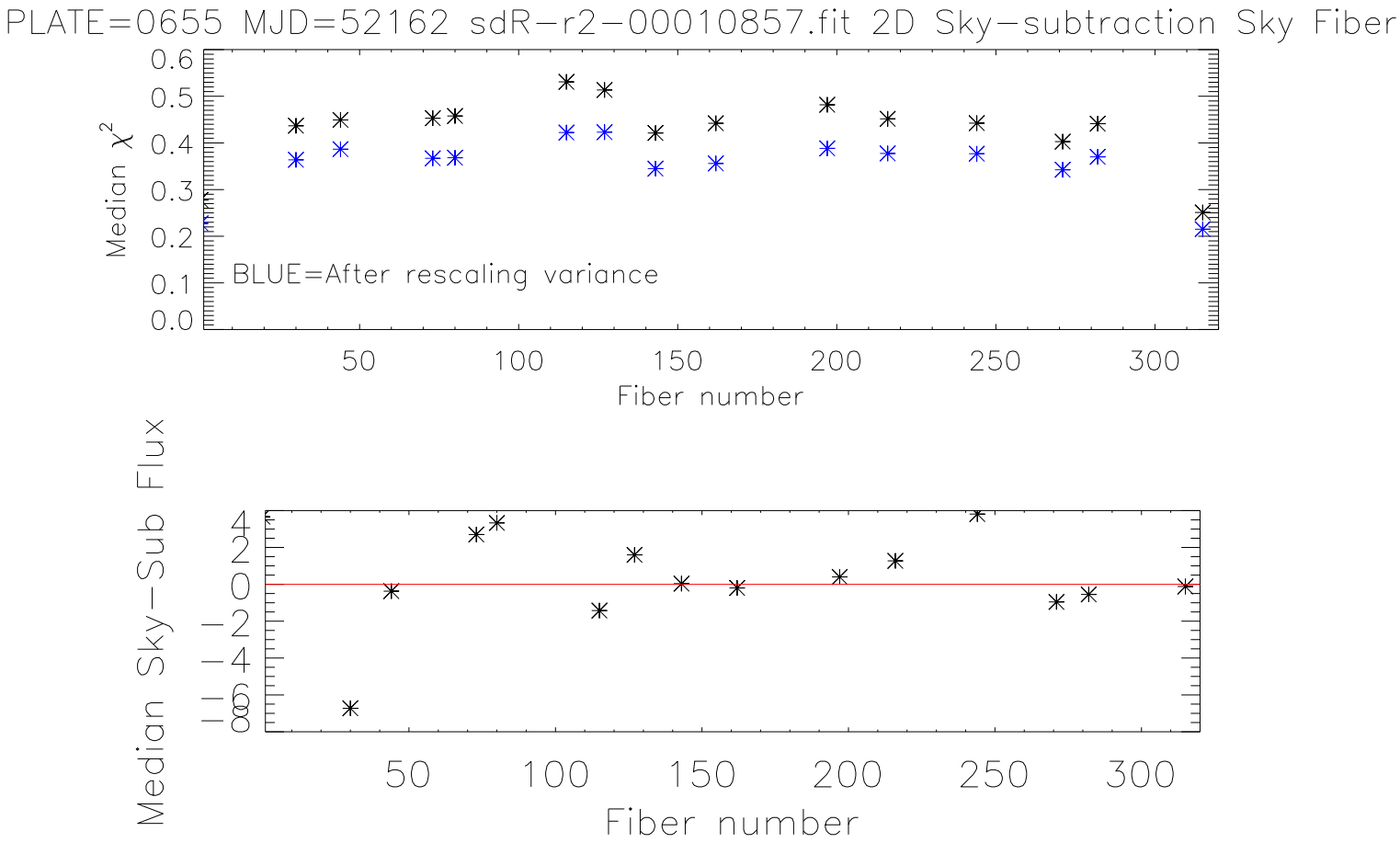

PLATE=0655 MJD=52162 sdR-r2-00010857.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

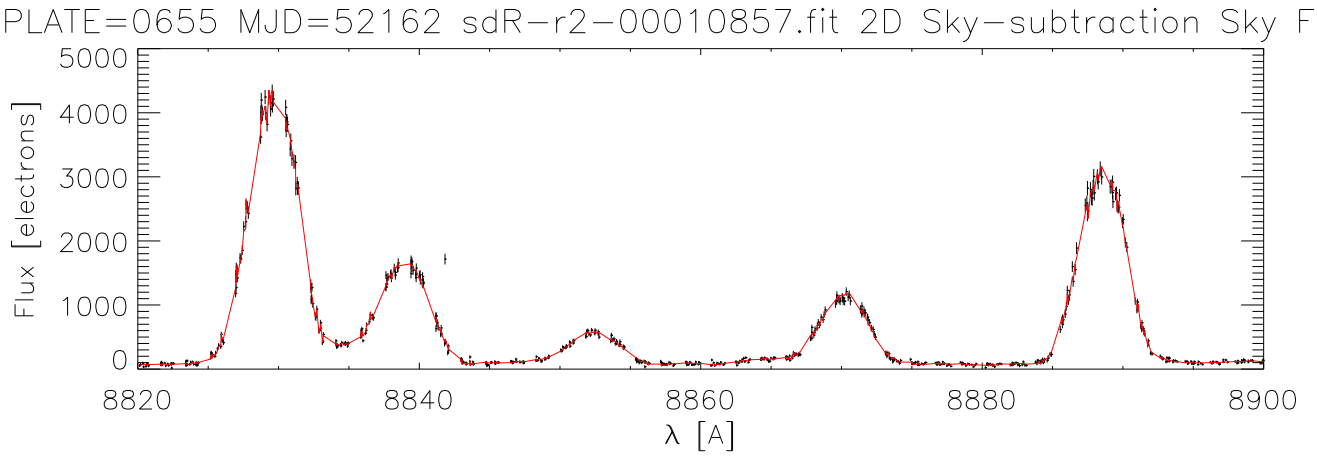
Median Sky-Sub Flux
5
0
-5
-10
50
100
150
200
250
300
Fiber number

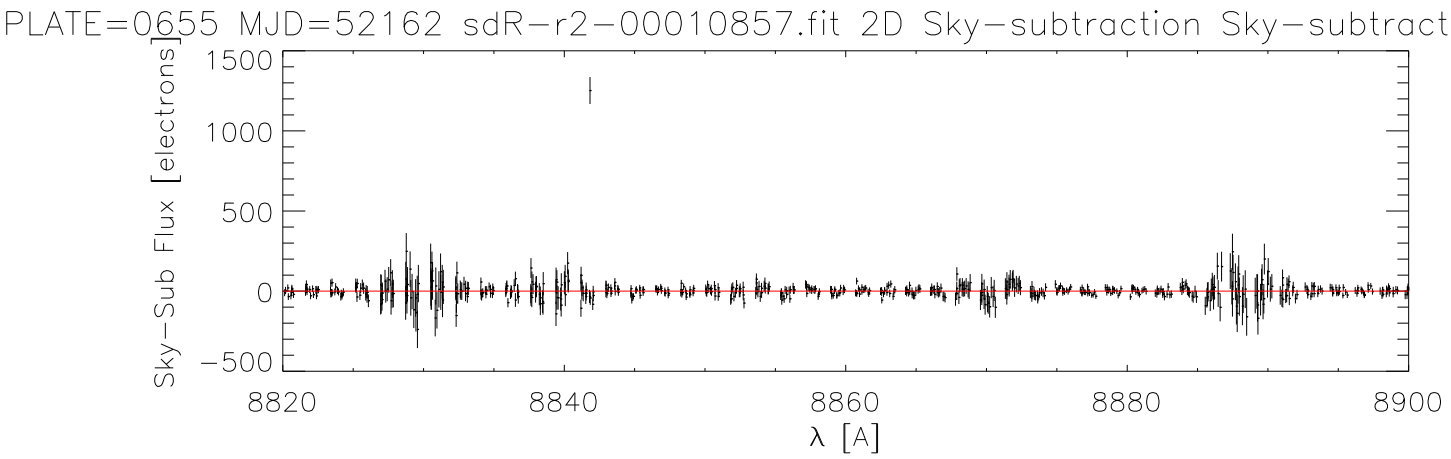

PLATE=0655 MJD=52162 sdR-r2-00010857.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

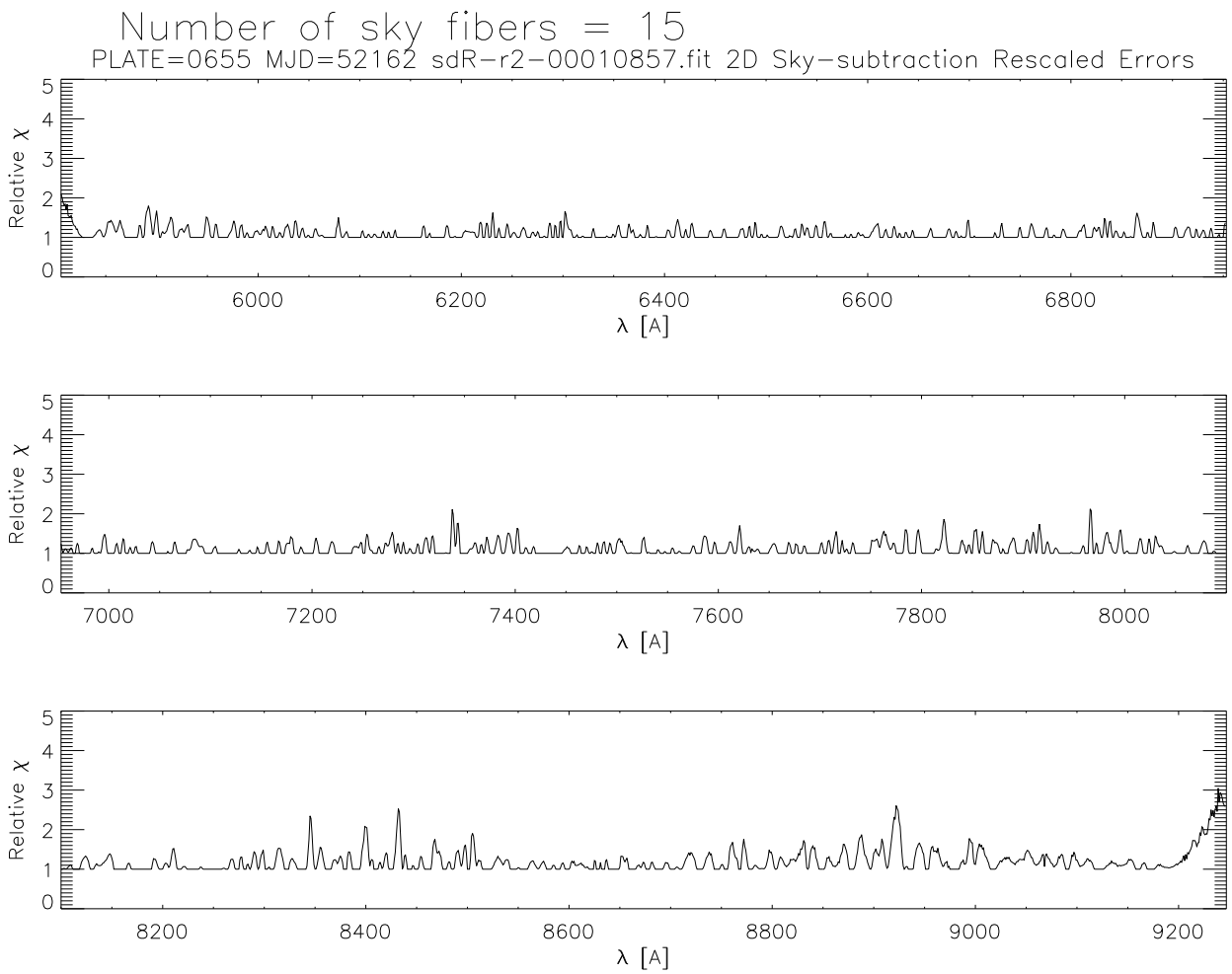

PLATE=0655 MJD=52162 sdR-r2-00010857.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

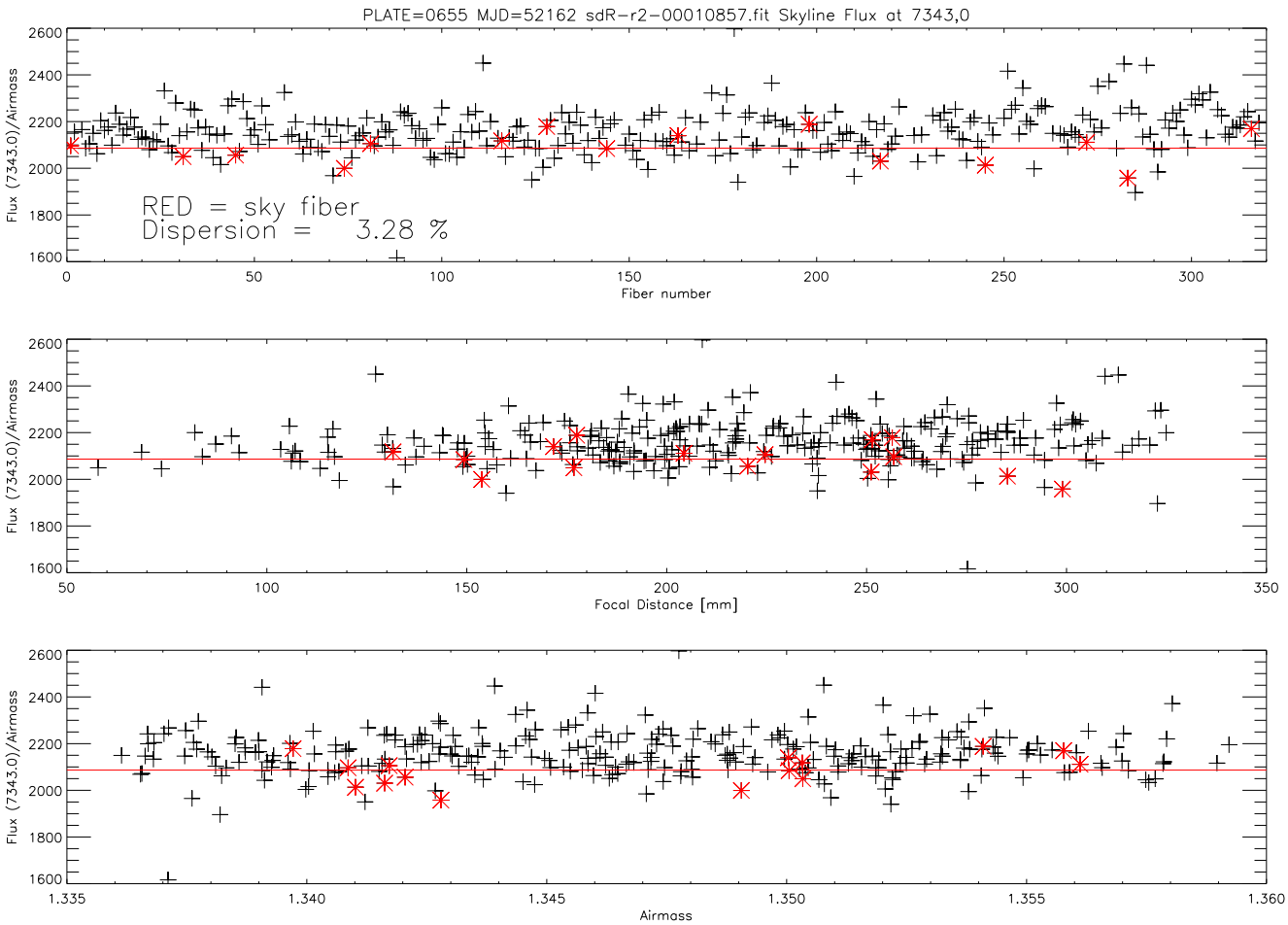

Number of sky fibers = 15
PLATE=0655 MJD=52162 sdR-r2-00010857.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

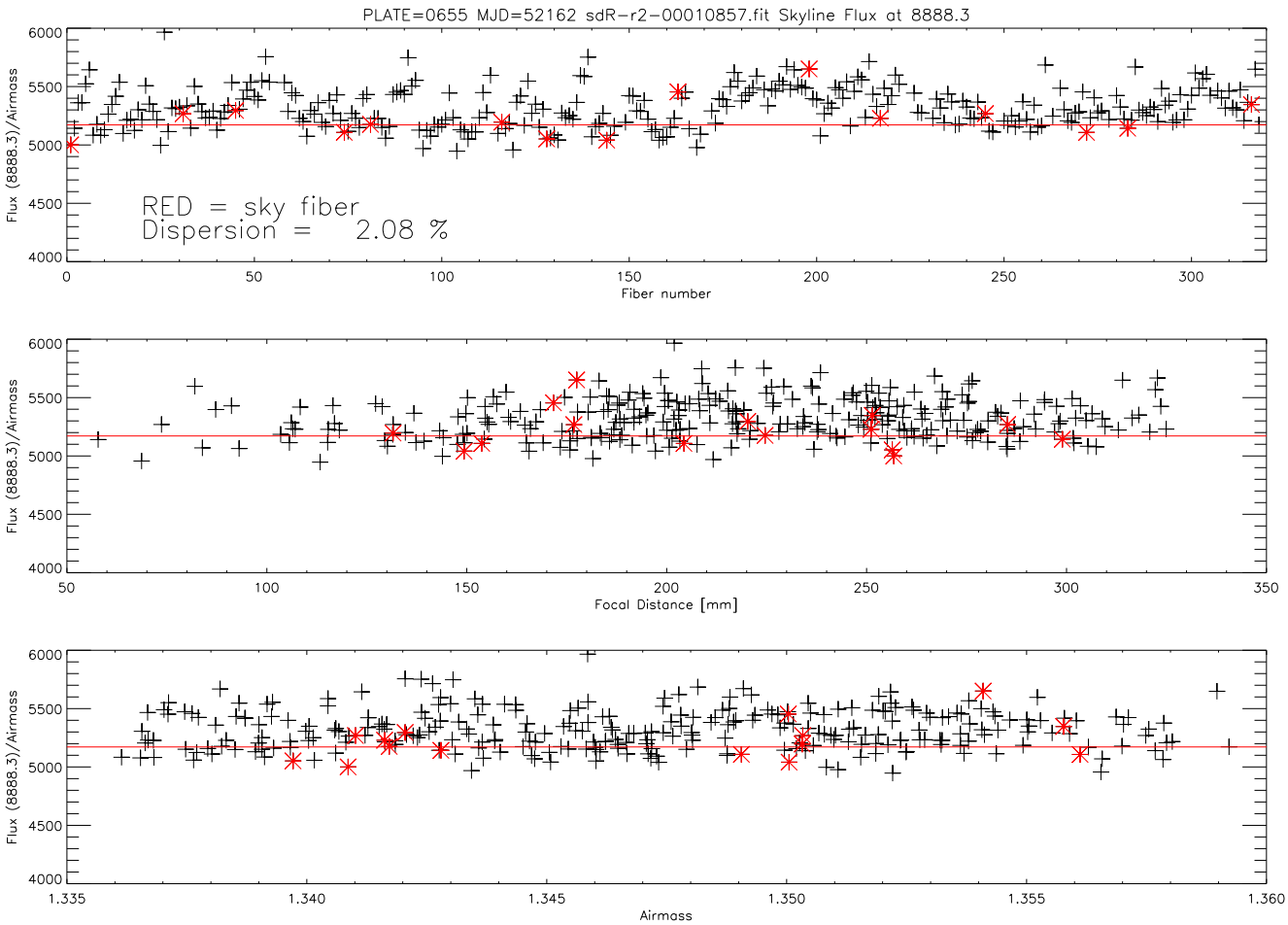

PLATE=0655 MJD=52162 sdR-r2-00010857.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-1.6e-06
-1.4e-06
-1.2e-06
-1e-06
-8e-07
-6e-07
-4e-07
-2e-07
0
2e-07
4e-07
50
100
150
200
250
300
Fiber number

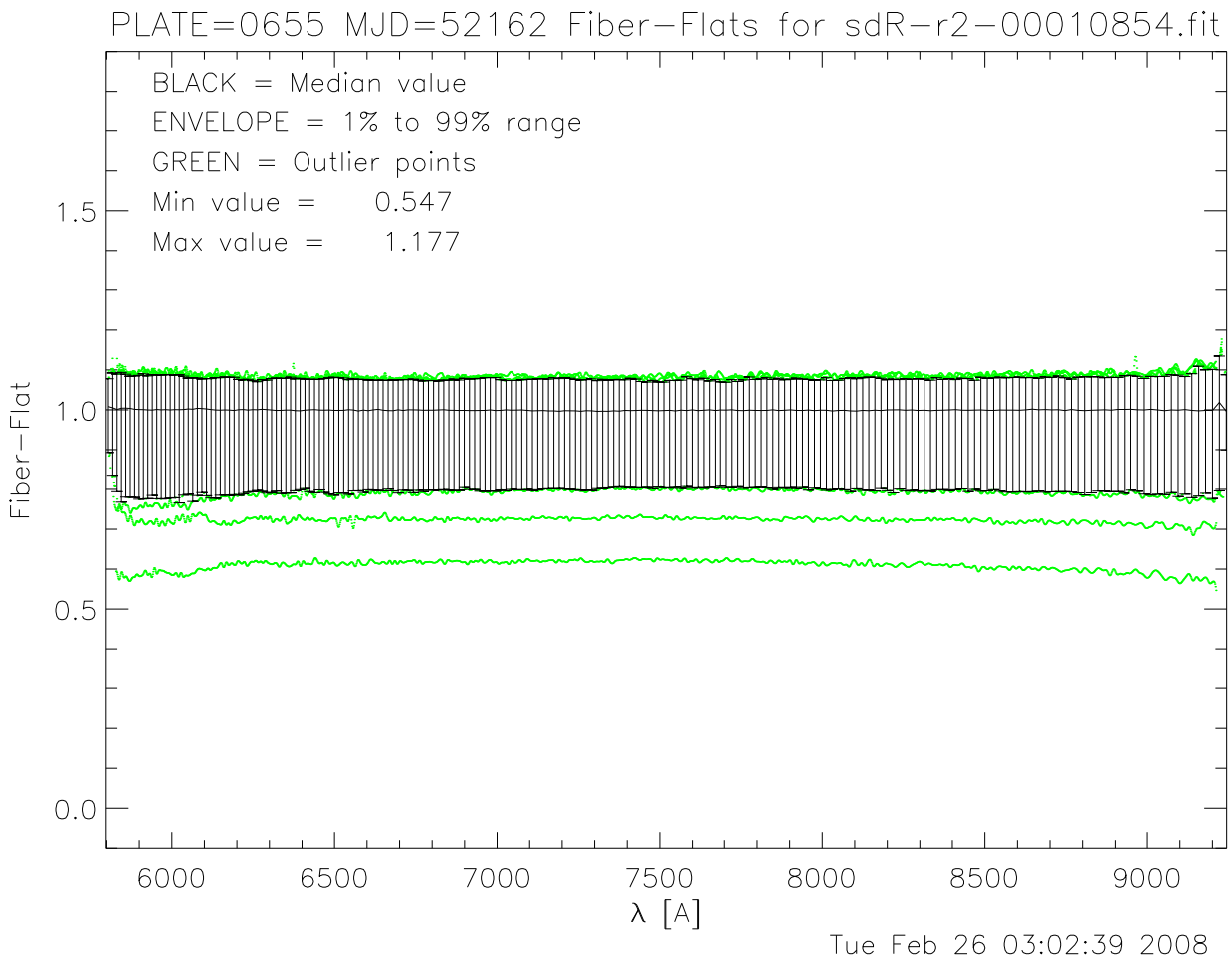

PLATE=0655 MJD=52162 sdR-r2-00010857.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

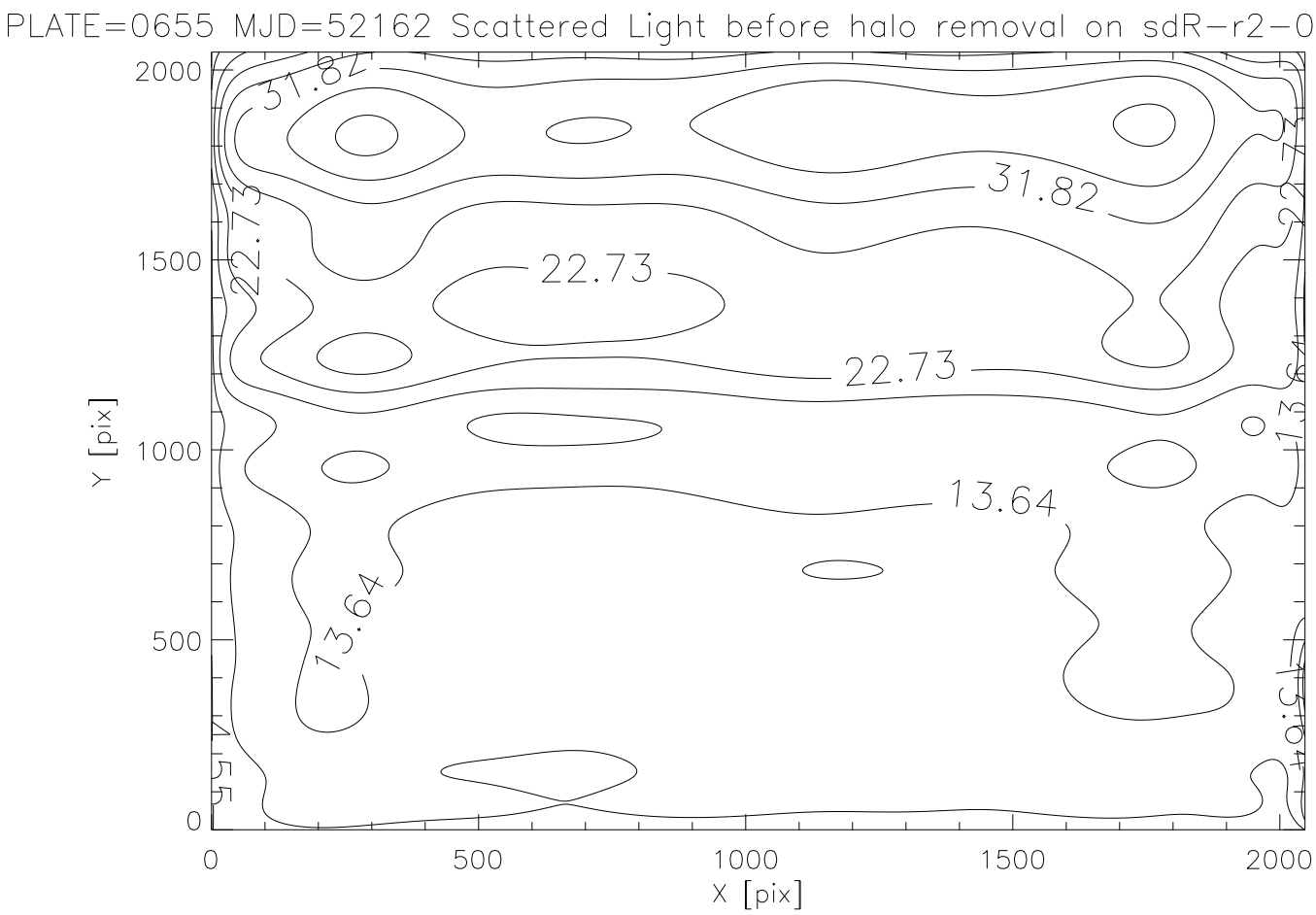

PLATE=0655 MJD=52162 sdR-r2-00010857.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

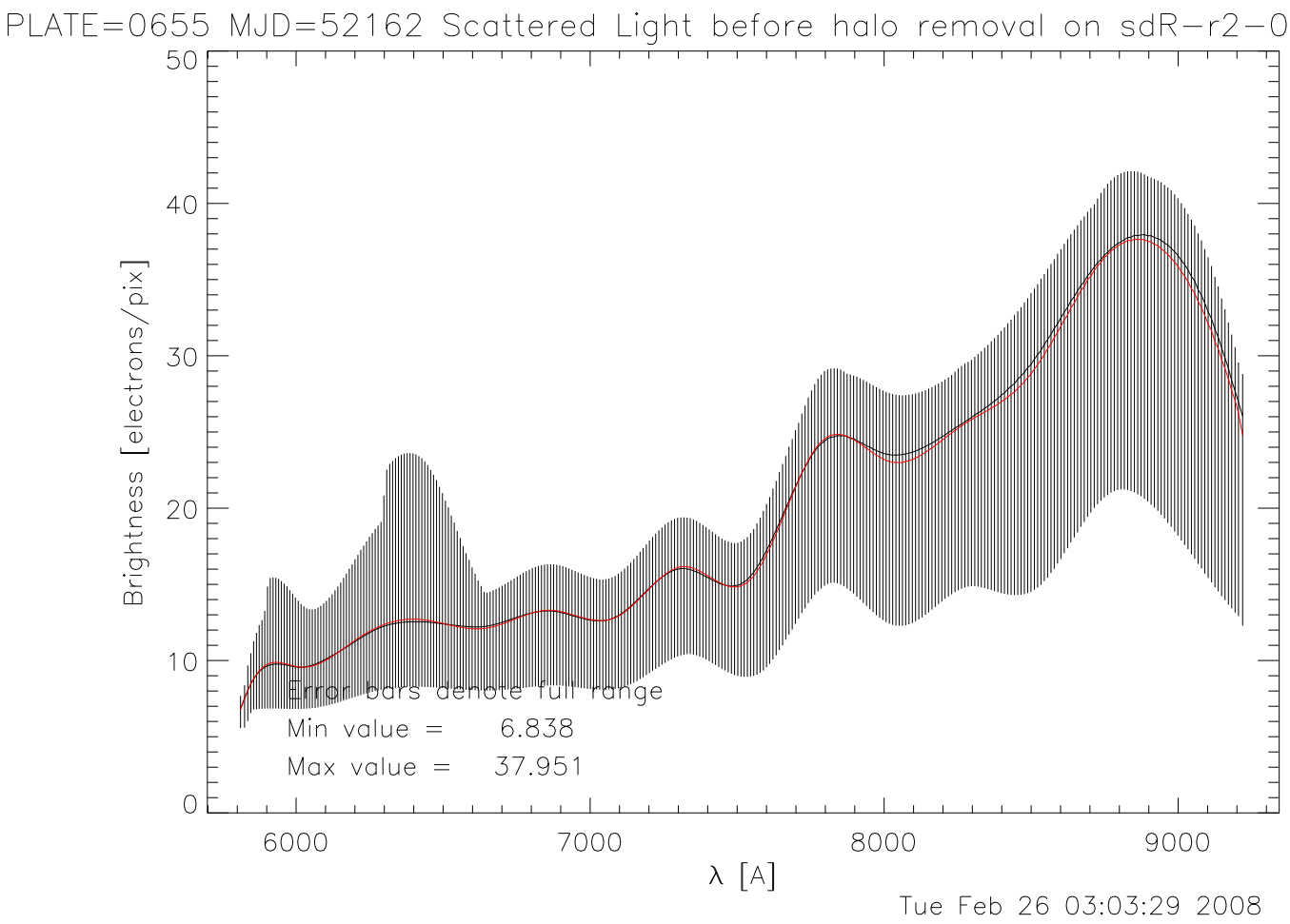

Number of sky fibers = 15
PLATE=0655 MJD=52162 sdR-r2-00010857.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

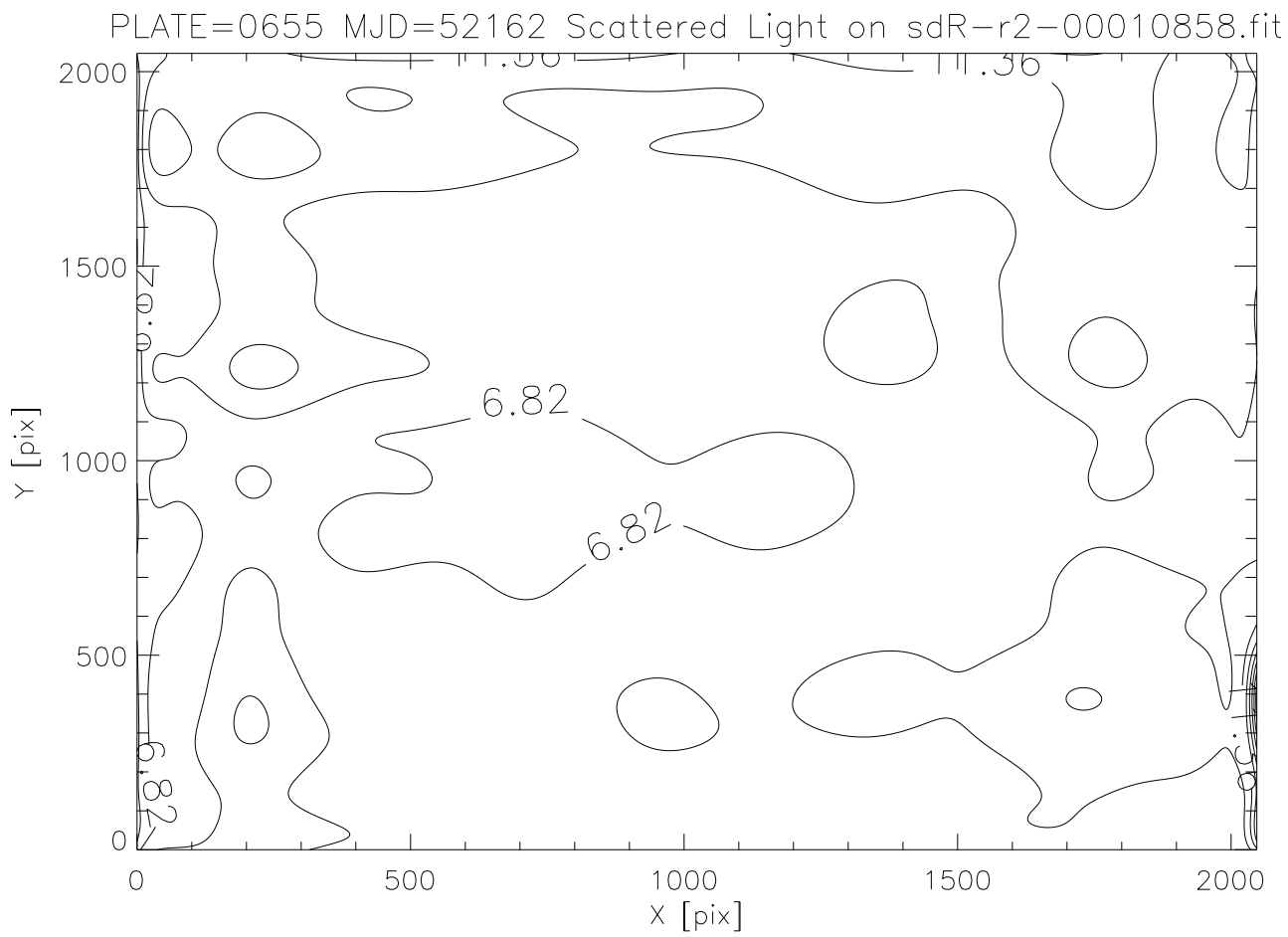

PLATE=0655 MJD=52162 sdR-r2-00010857.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.28 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

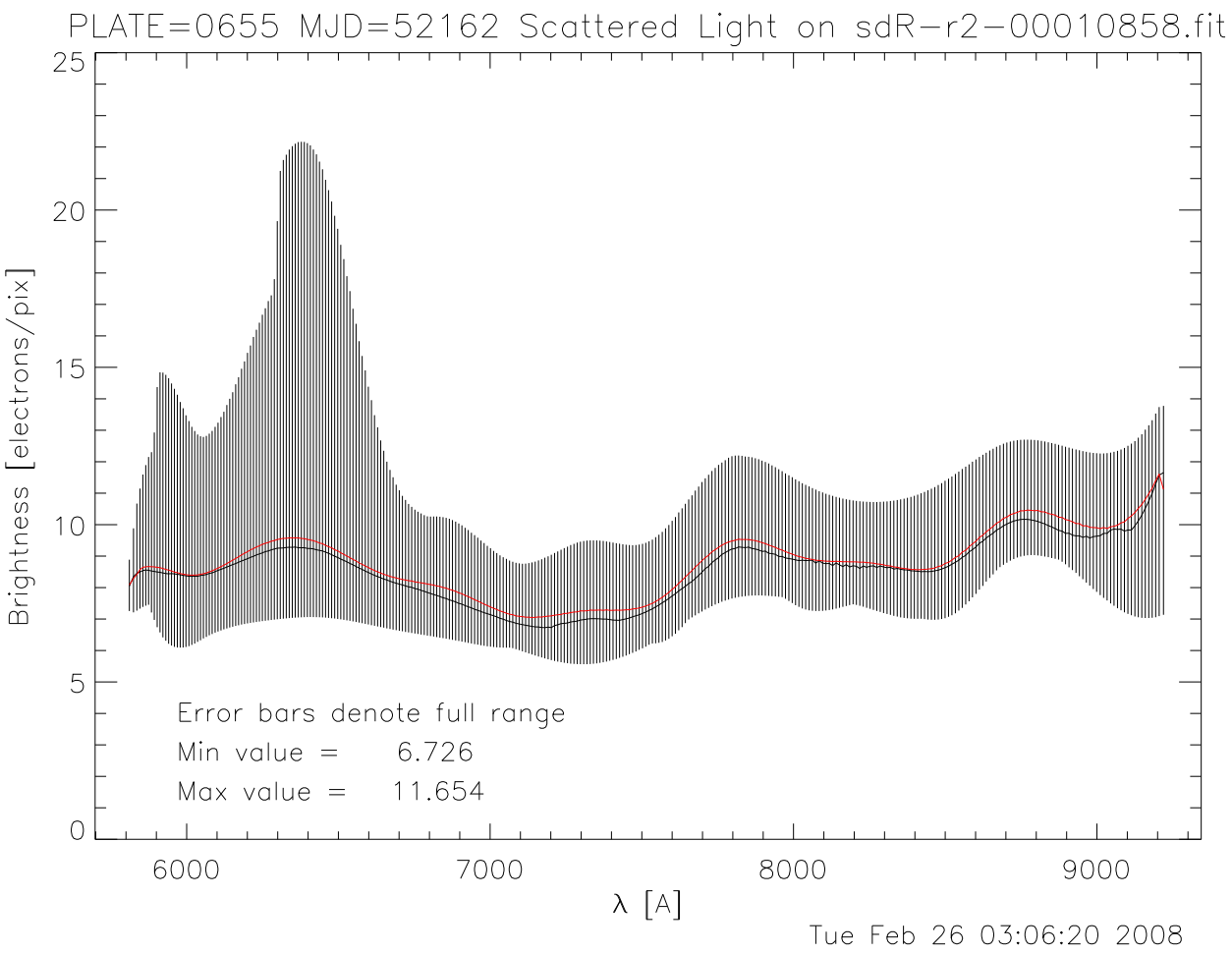

PLATE=0655 MJD=52162 sdR-r2-00010857.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.08 %
Fiber number
Focal Distance [mm]
Airmass

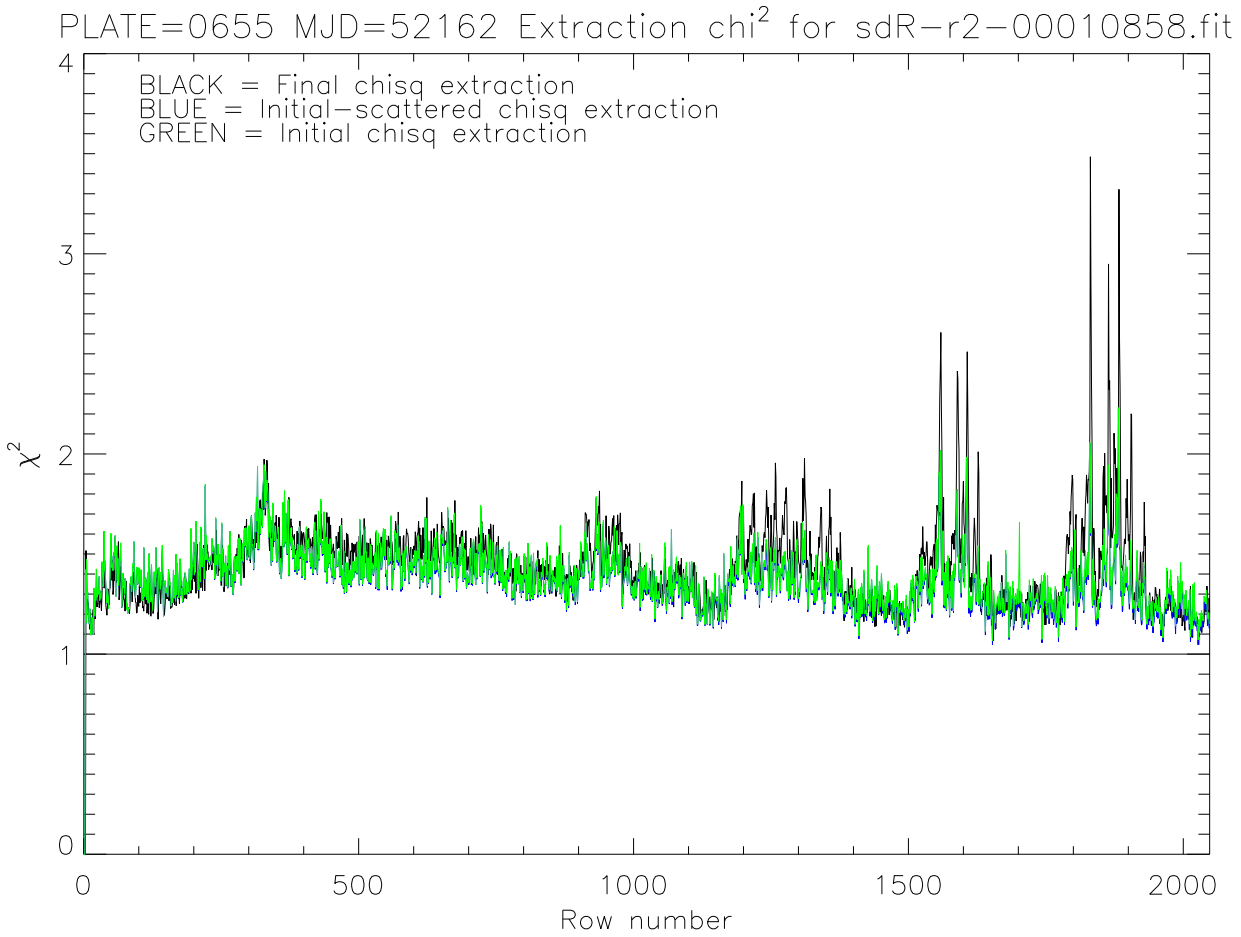

PLATE=0655 MJD=52162 Fiber−Flats for sdR−r2−00010854.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.547
Max value = 1.177
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Tue Feb 26 03:02:39 2008

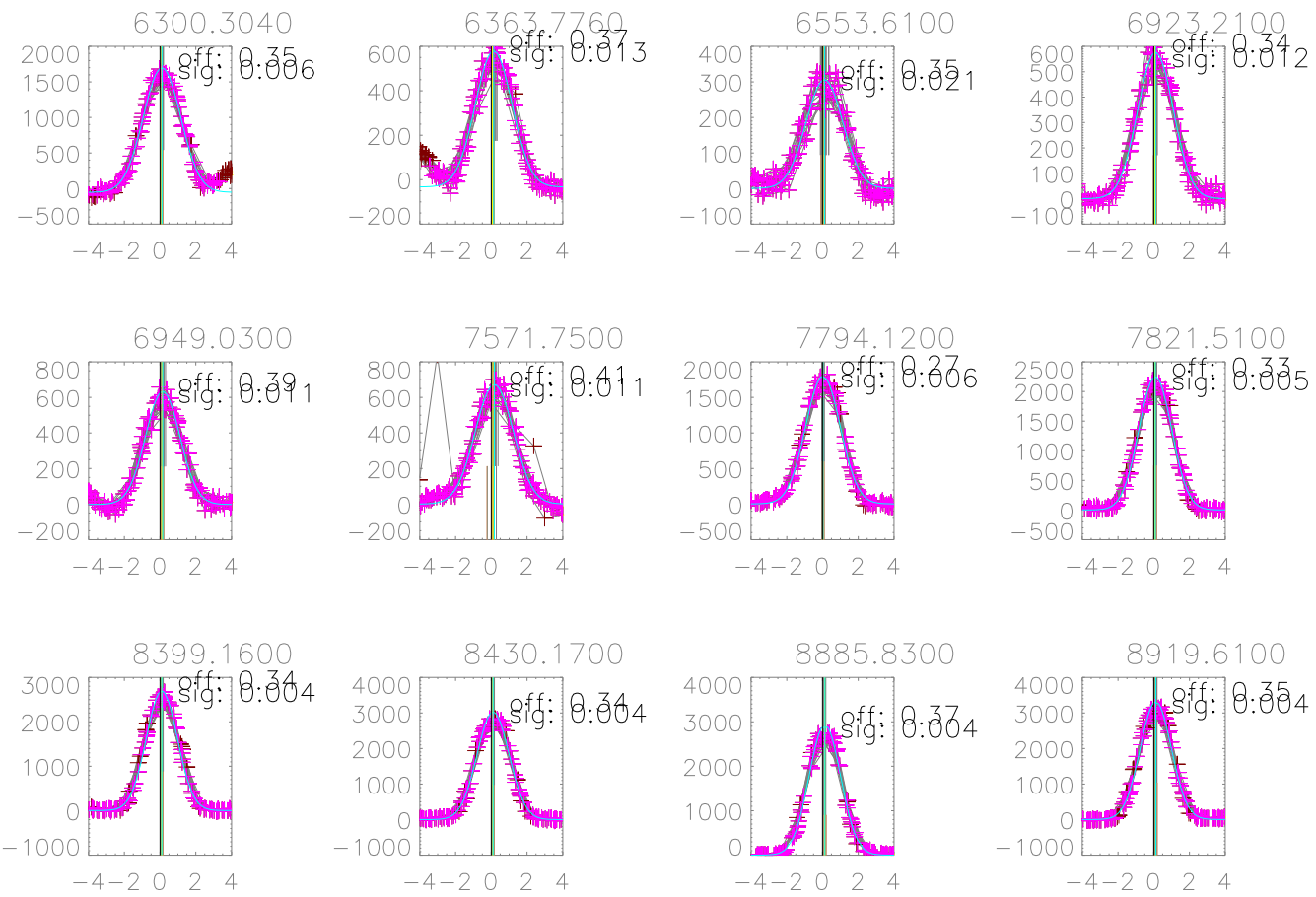

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-r2-00010858.fi
51.82
31.82
22.73
22.73
13.64
13.64
0
Y [pix]
X [pix]
0
500
1000
1500
2000

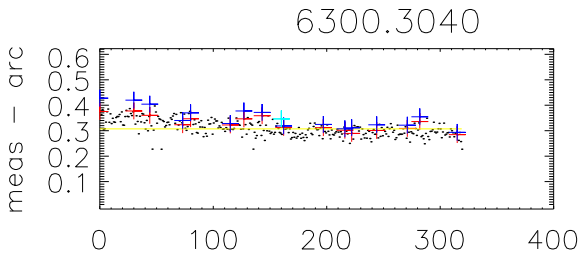

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-r2-00010858.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.838
Max value = 37.951
Tue Feb 26 03:03:29 2008

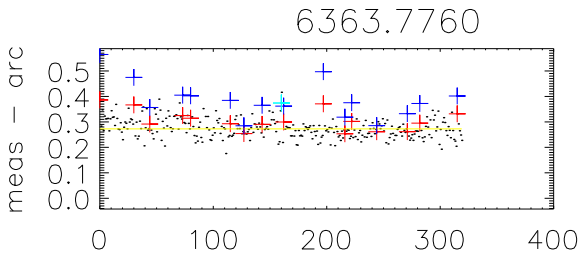

PLATE=0655 MJD=52162 Scattered Light on sdR-r2-00010858.fit
11.36
11.36
6.82
6.82
6.82
6.82
6.82
Y [pix]
X [pix]
0
500
1000
1500
2000

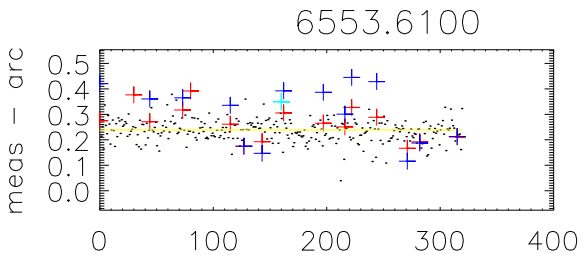

PLATE=0655 MJD=52162 Scattered Light on sdR-r2-00010858.fit
Brightness [electrons/pix]
25
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 6.726
Max value = 11.654
Tue Feb 26 03:06:20 2008

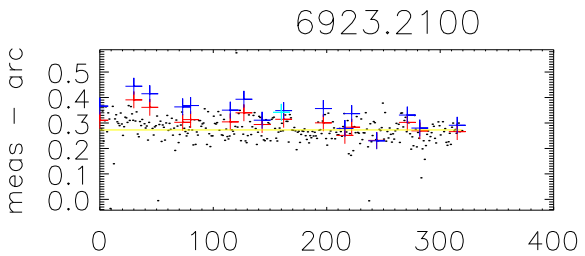

PLATE=0655 MJD=52162 Extraction chi^2 for sdR−r2−00010858.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

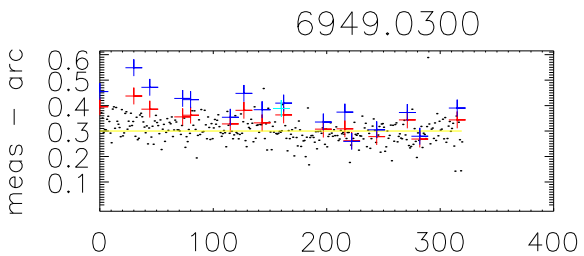

6300.3040
off: 0.35
sig: 0.006
6363.7760
off: 0.37
sig: 0.013
6553.6100
off: 0.35
sig: 0.021
6923.2100
off: 0.34
sig: 0.012
6949.0300
off: 0.39
sig: 0.011
7571.7500
off: 0.41
sig: 0.011
7794.1200
off: 0.27
sig: 0.006
7821.5100
off: 0.33
sig: 0.005
8399.1600
off: 0.34
sig: 0.004
8430.1700
off: 0.34
sig: 0.004
8885.8300
off: 0.37
sig: 0.004
8919.6100
off: 0.35
sig: 0.004

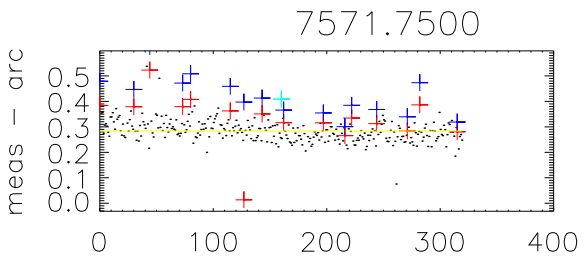

6300.3040
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

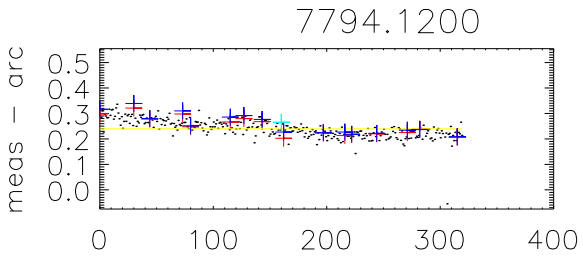

6363.7760
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

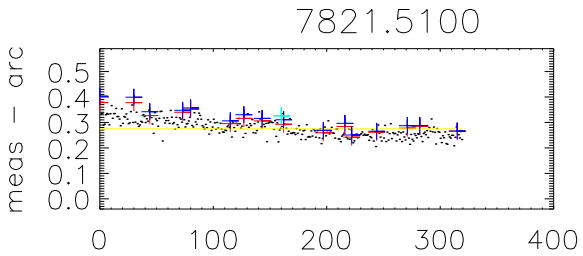

6553.6100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

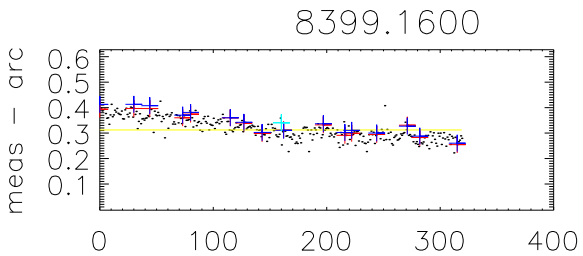

6923.2100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

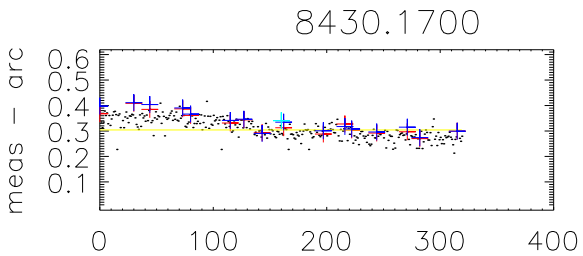

6949.0300
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

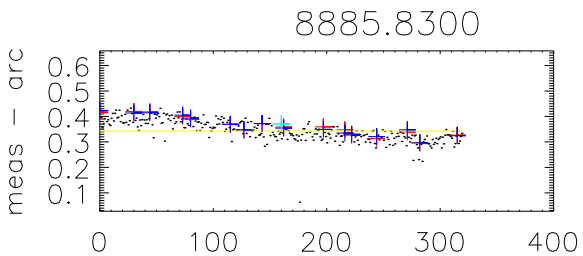

7571.7500
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

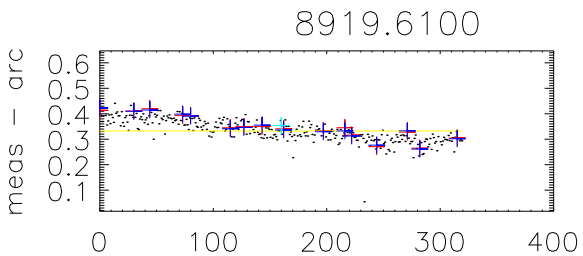

7794.1200
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

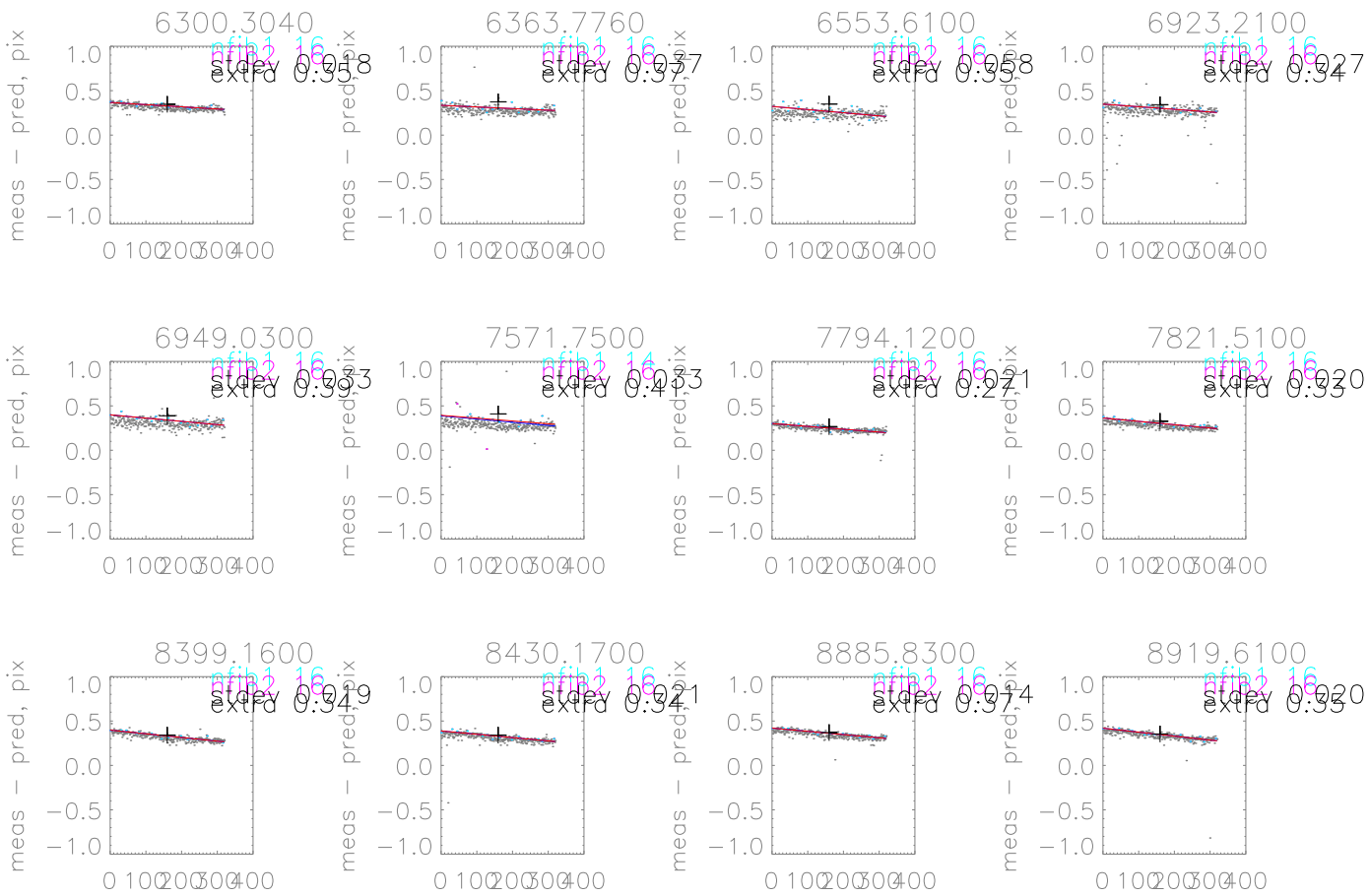

7821.5100
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

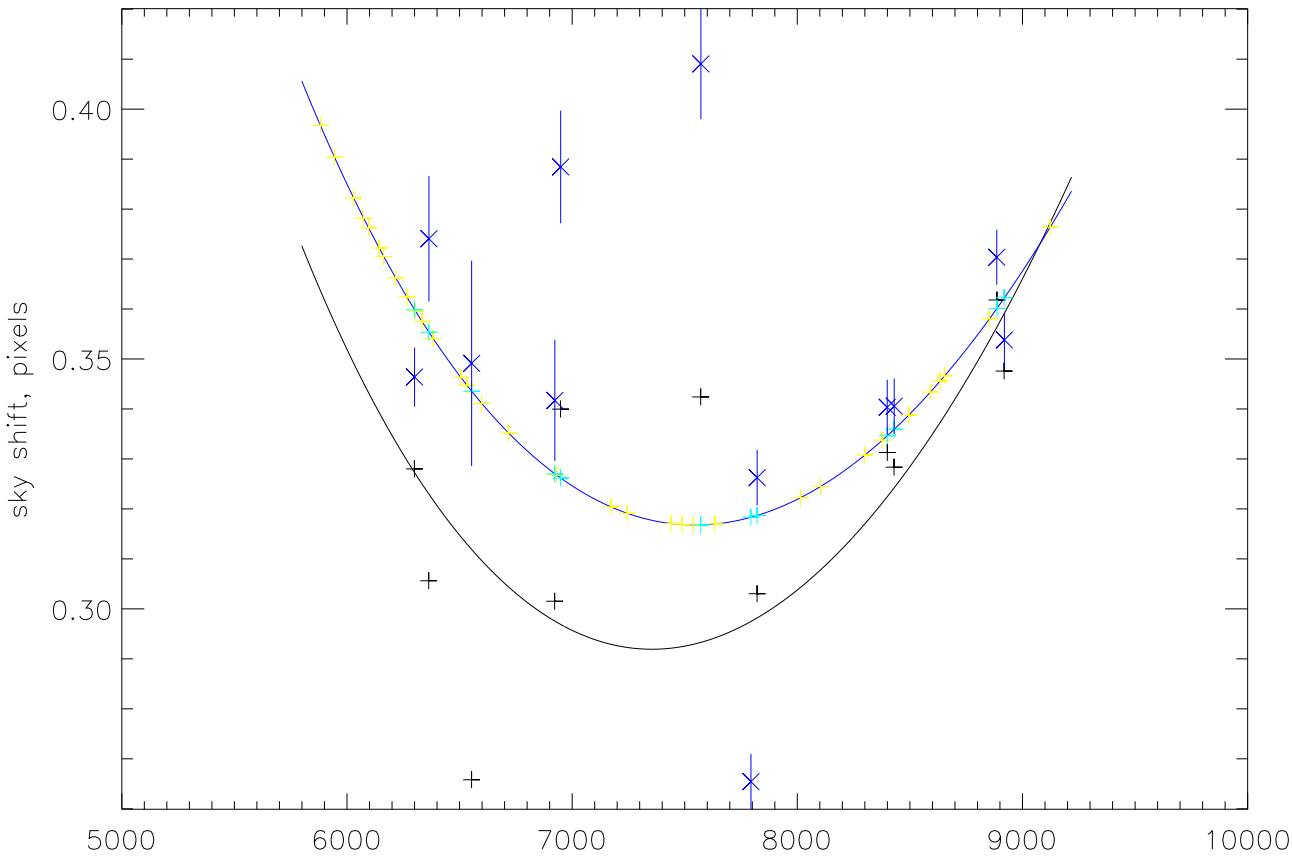

8399.1600
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

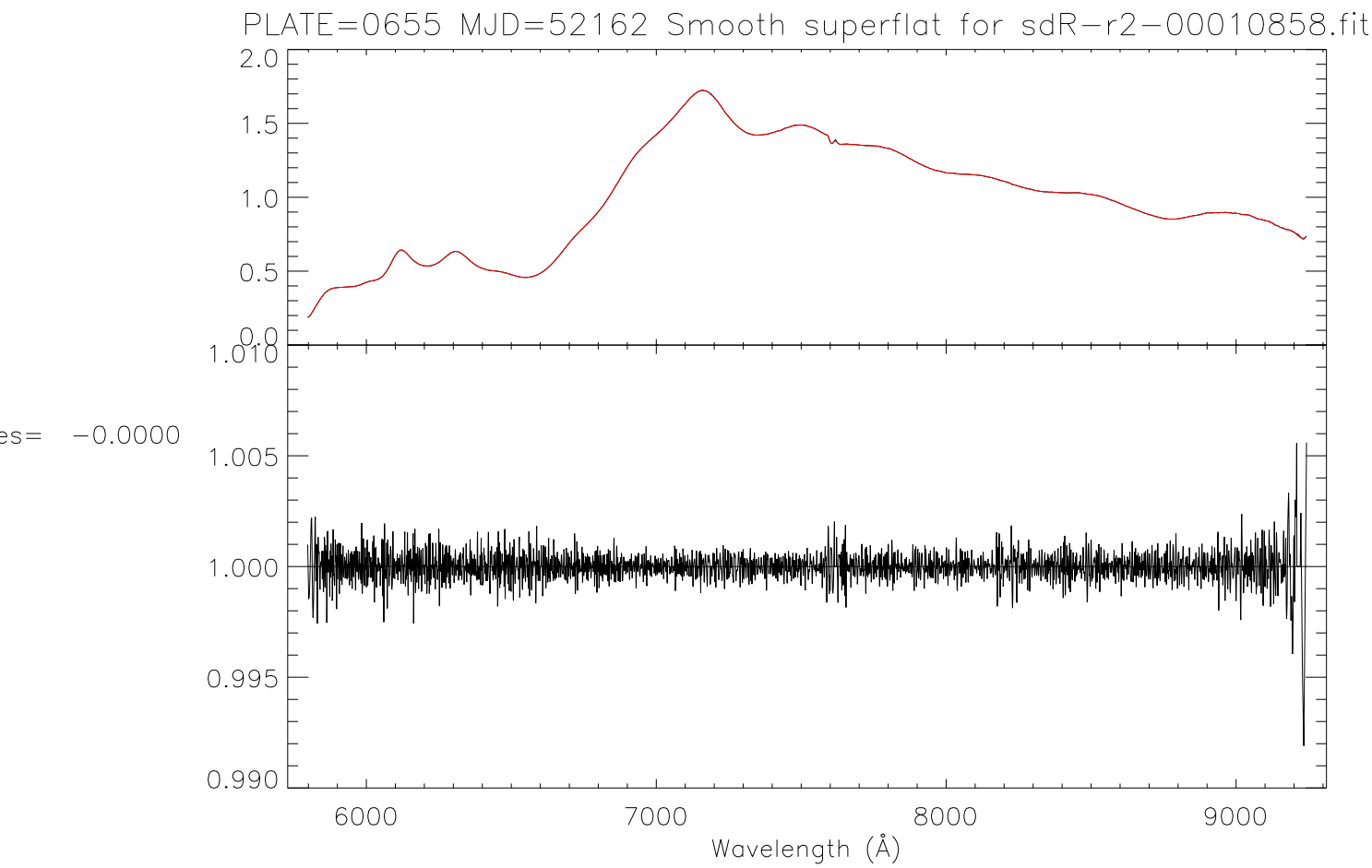

8430.1700
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

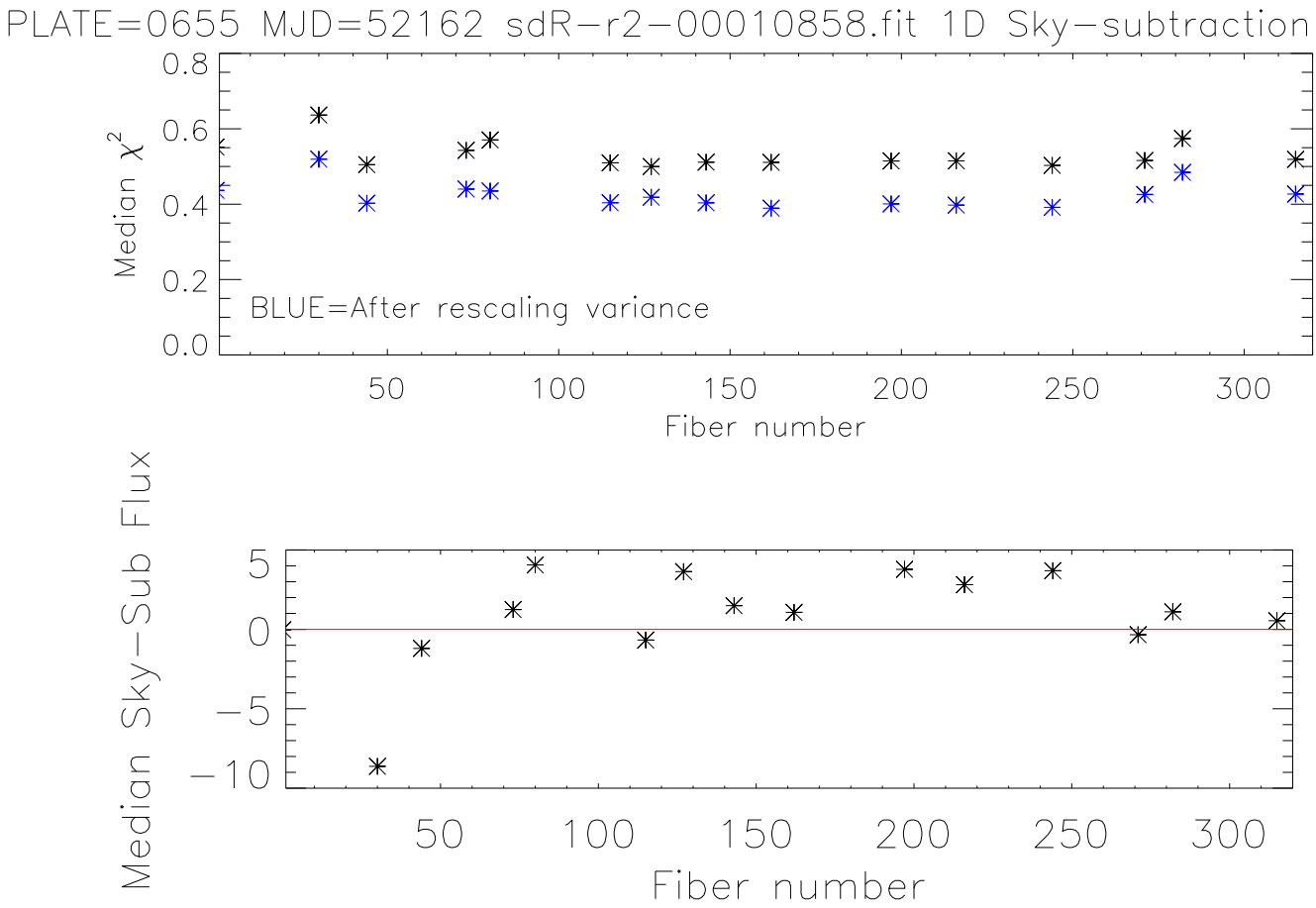

8885.8300
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

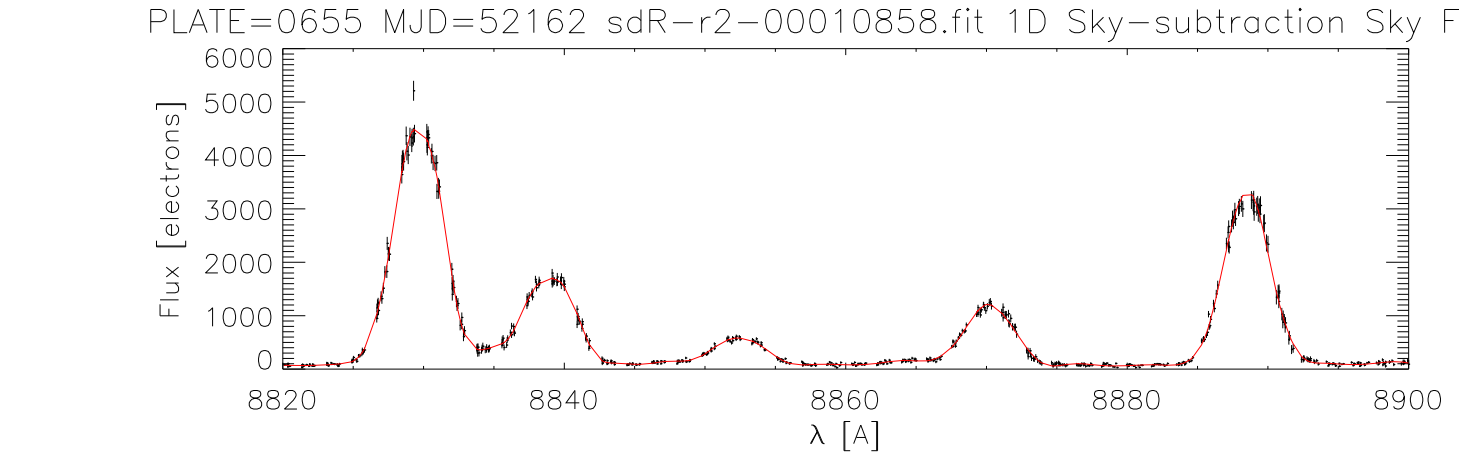

8919.6100
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

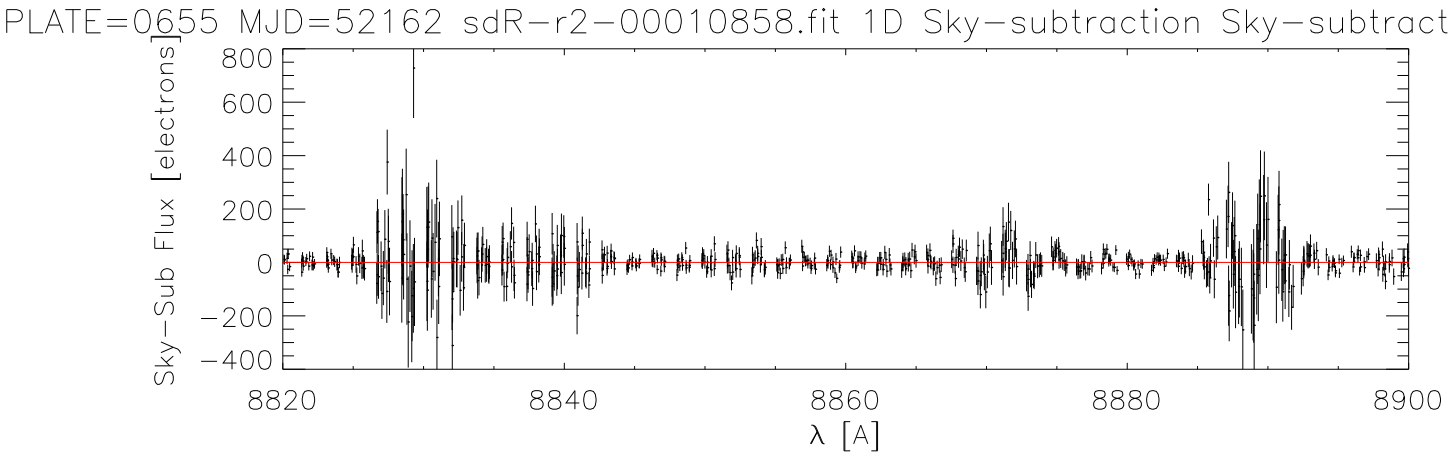

6300.3040
stdev 0.358
extra 0.358
6363.7760
stdev 0.337
extra 0.337
6553.6100
stdev 0.358
extra 0.358
6923.2100
stdev 0.327
extra 0.34
6949.0300
stdev 0.333
extra 0.333
7571.7500
stdev 0.333
extra 0.413
7794.1200
stdev 0.321
extra 0.27
7821.5100
stdev 0.320
extra 0.33
8399.1600
stdev 0.319
extra 0.34
8430.1700
stdev 0.321
extra 0.34
8885.8300
stdev 0.374
extra 0.37
8919.6100
stdev 0.320
extra 0.33
meas − pred, pix
mfhd2 16
mfhd2 14

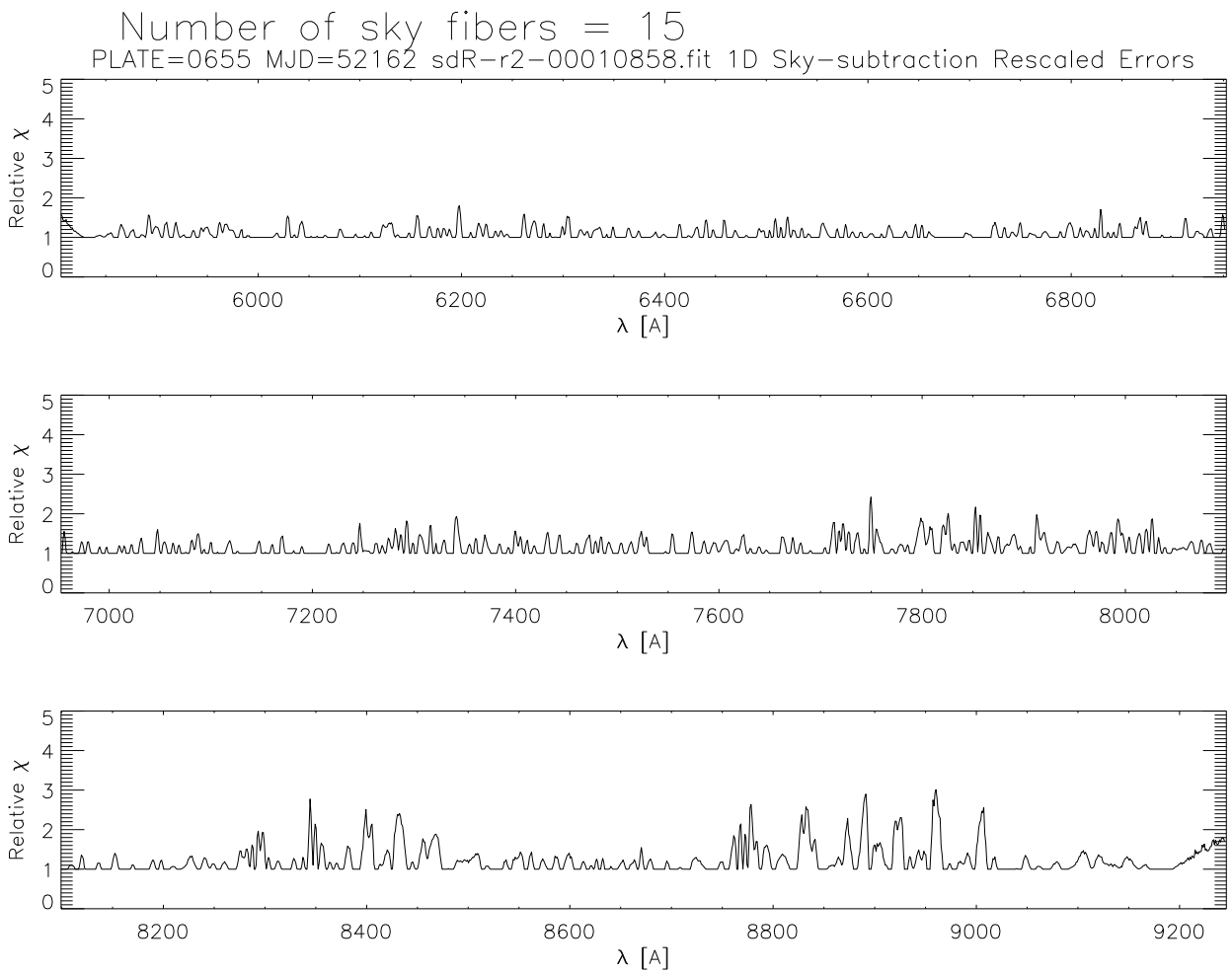

0.40
0.35
0.30
sky shift, pixels
5000
6000
7000
8000
9000
10000

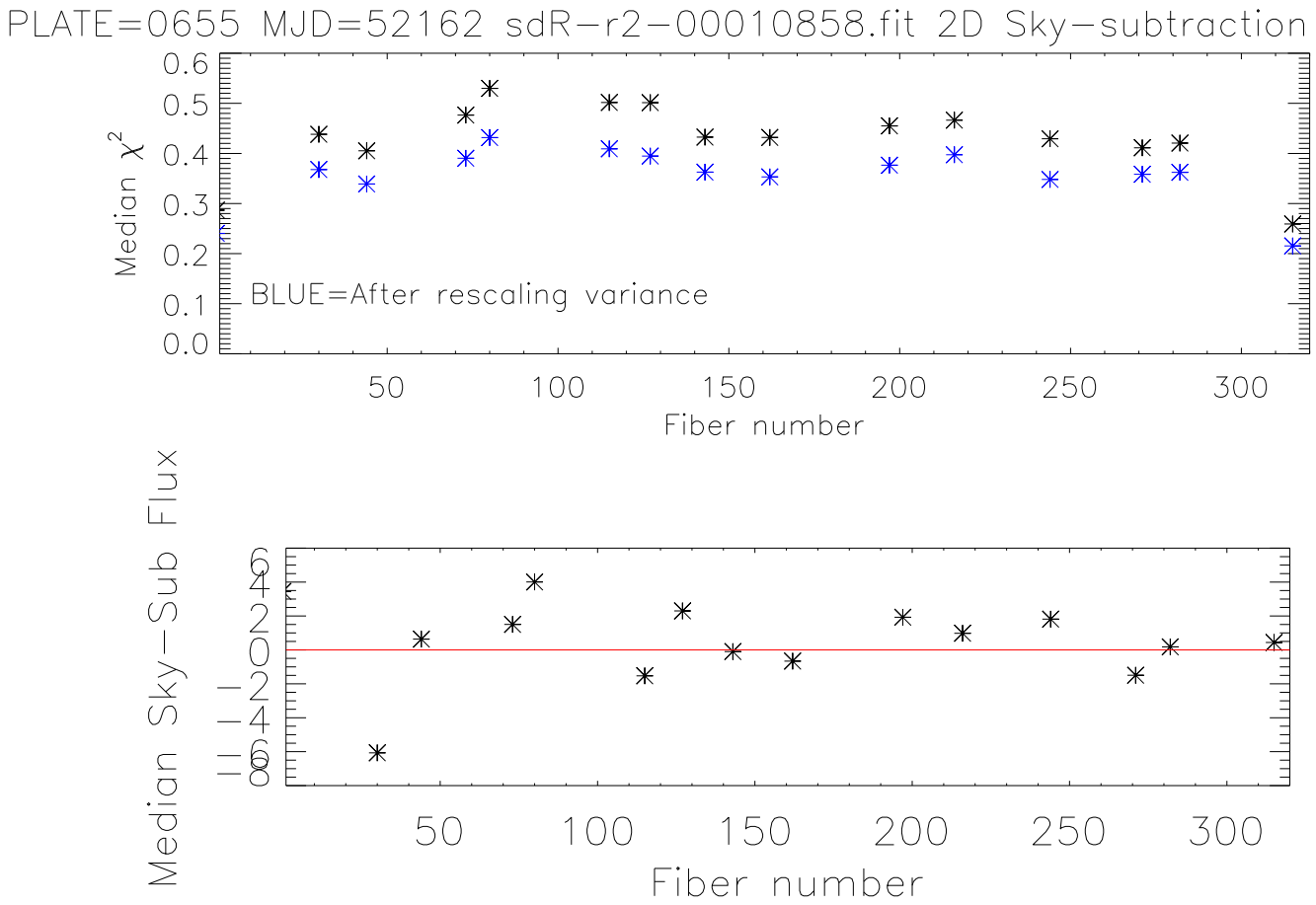

PLATE=0655 MJD=52162 Smooth superflat for sdR-r2-00010858.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= -0.0000
6000
7000
8000
9000
Wavelength (Å)

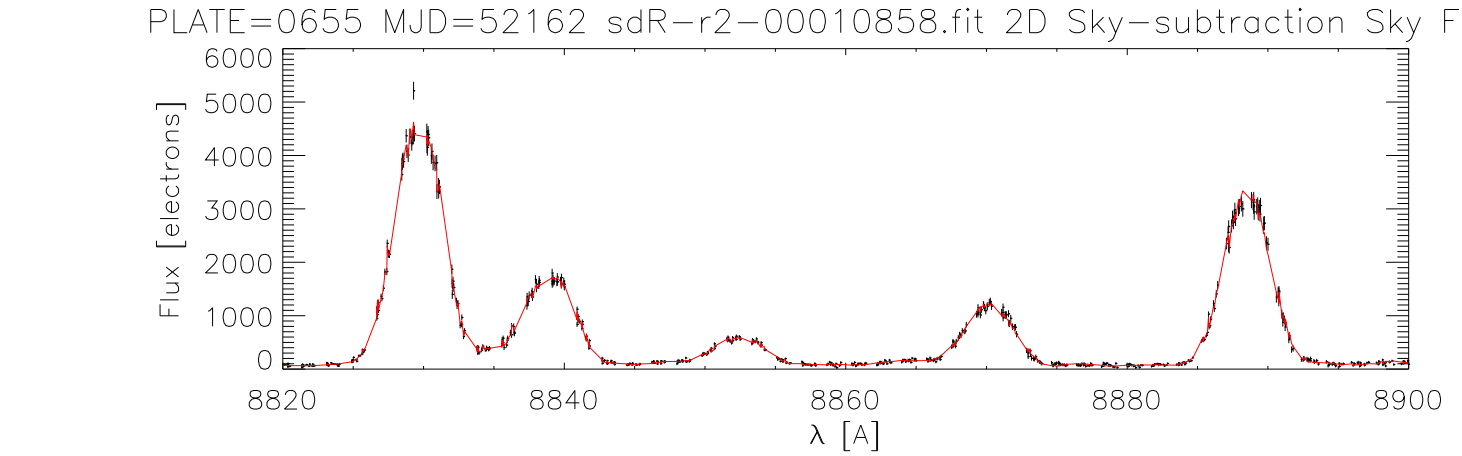

PLATE=0655 MJD=52162 sdR-r2-00010858.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
5
0
-5
-10
50
100
150
200
250
300
Fiber number

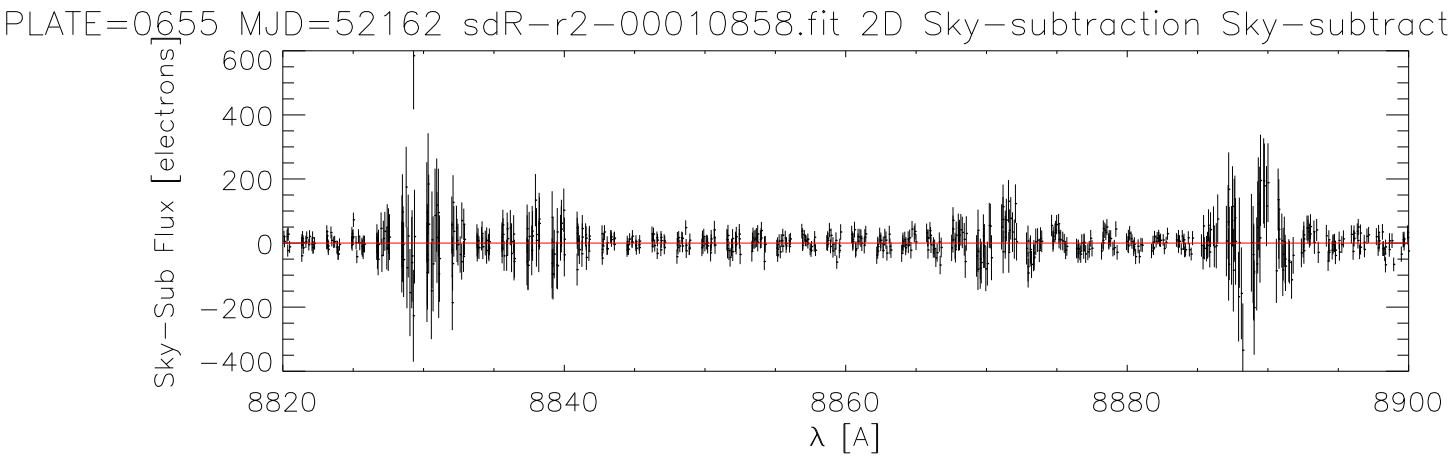

PLATE=0655 MJD=52162 sdR-r2-00010858.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

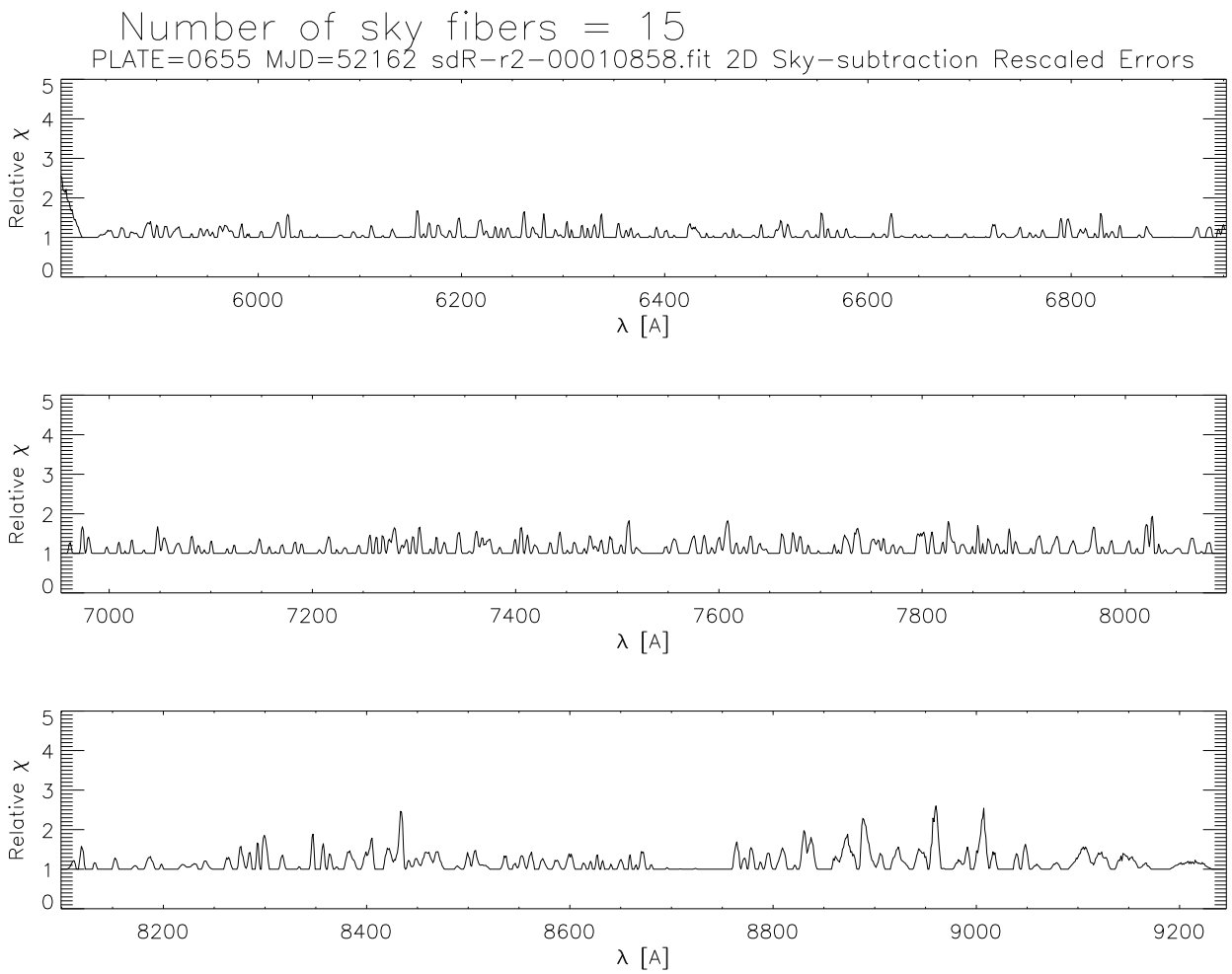

PLATE=0655 MJD=52162 sdR-r2-00010858.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

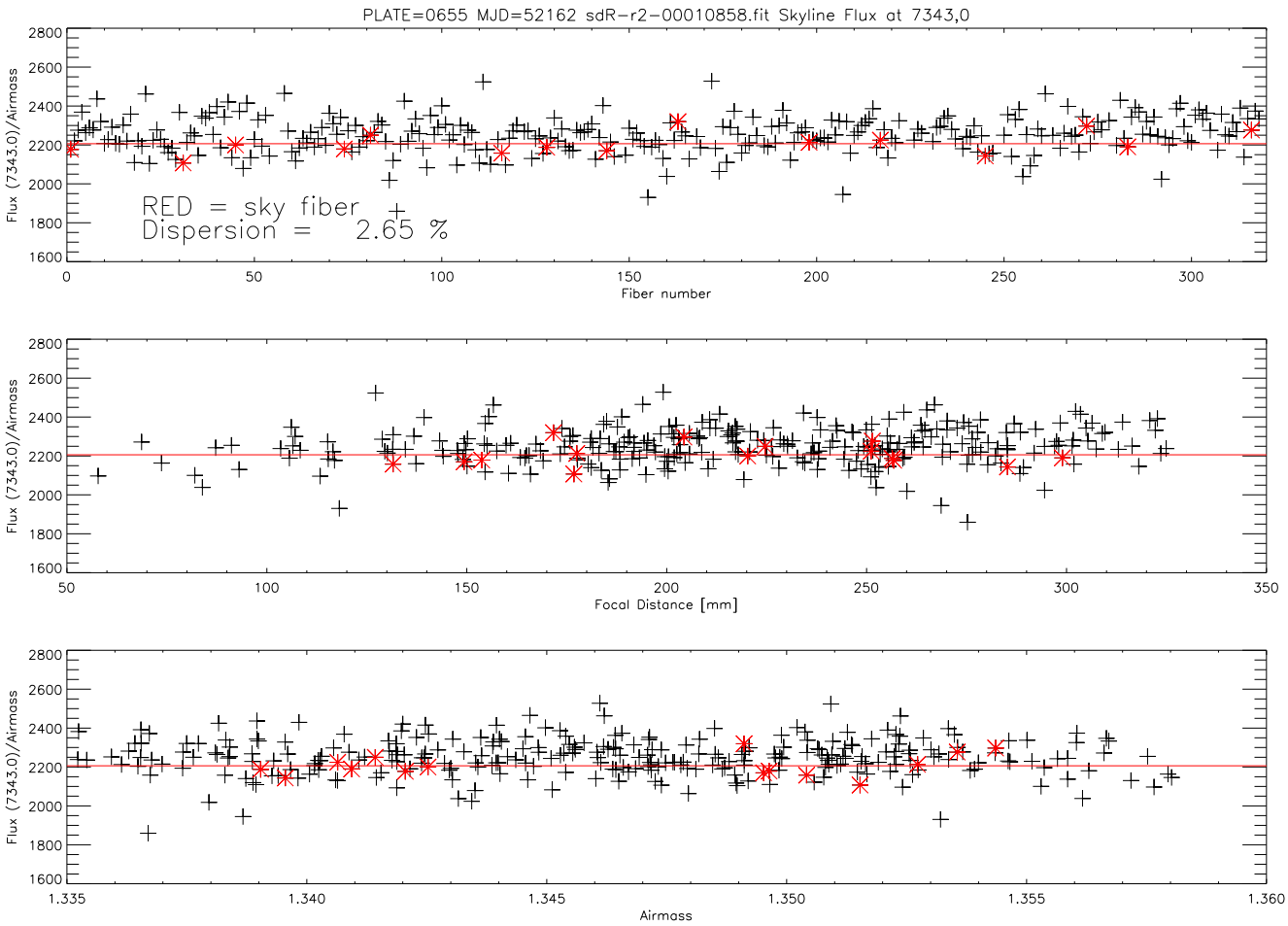

Number of sky fibers = 15
PLATE=0655 MJD=52162 sdR-r2-00010858.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

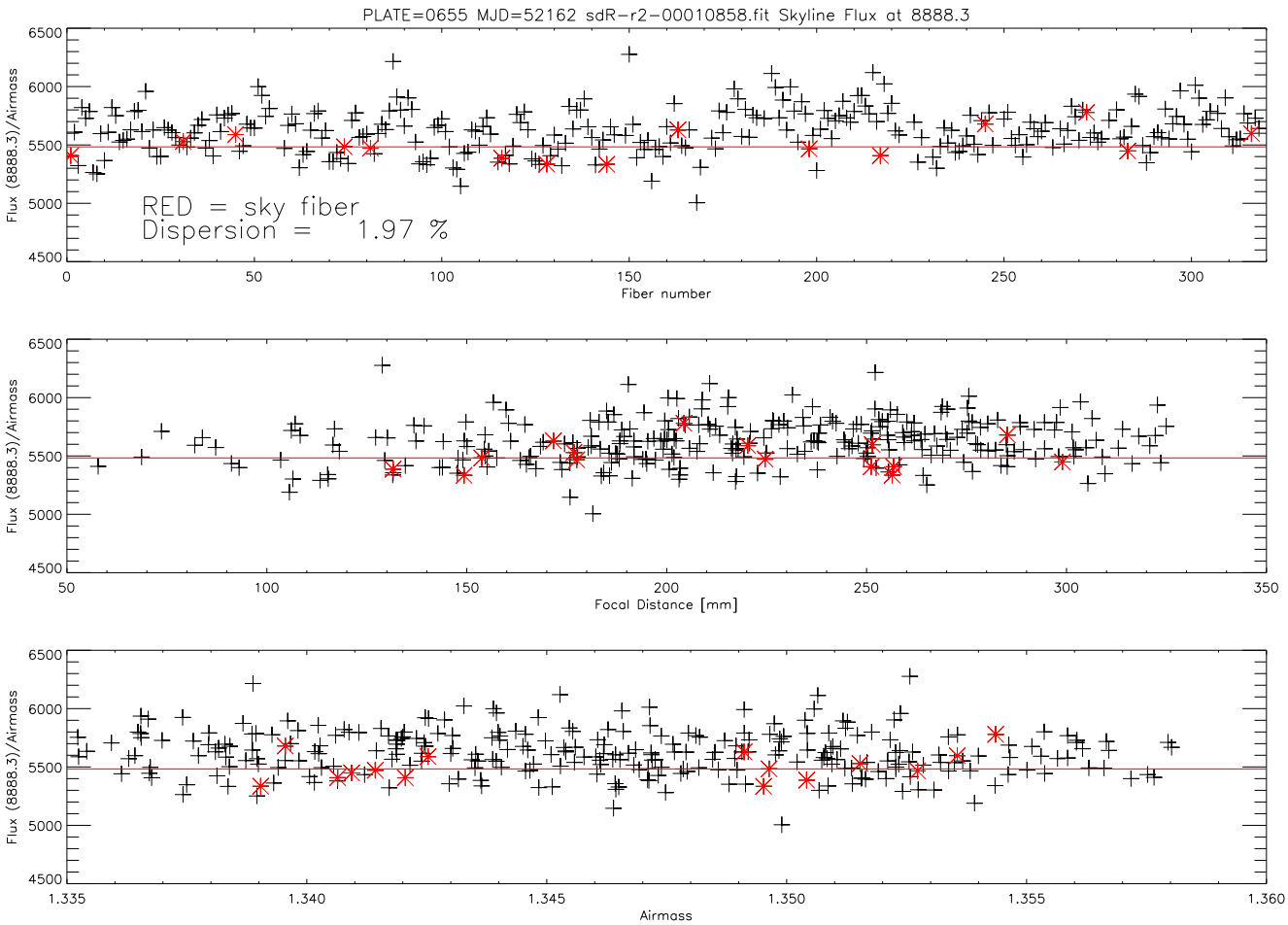

PLATE=0655 MJD=52162 sdR-r2-00010858.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
Fiber number

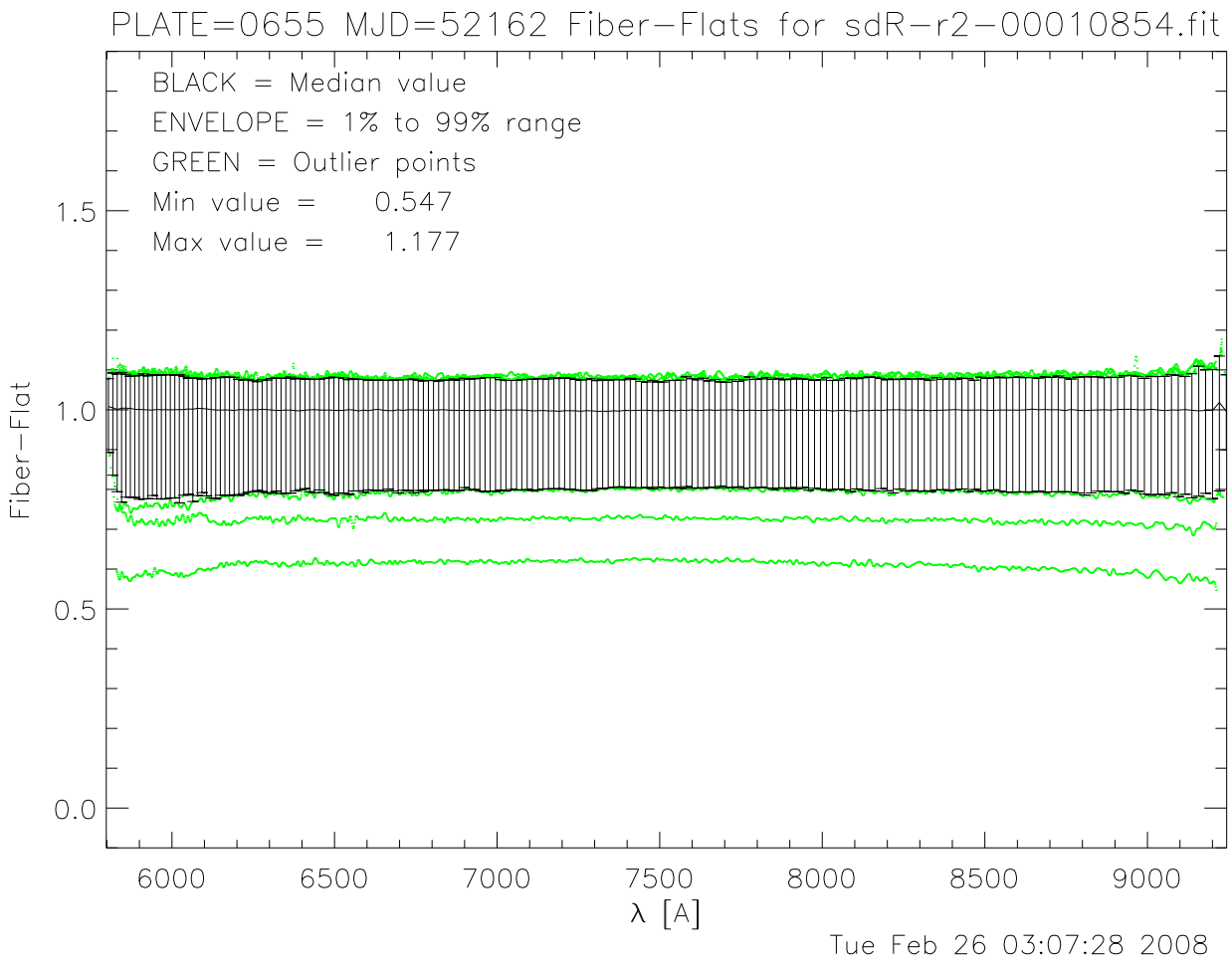

PLATE=0655 MJD=52162 sdR-r2-00010858.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

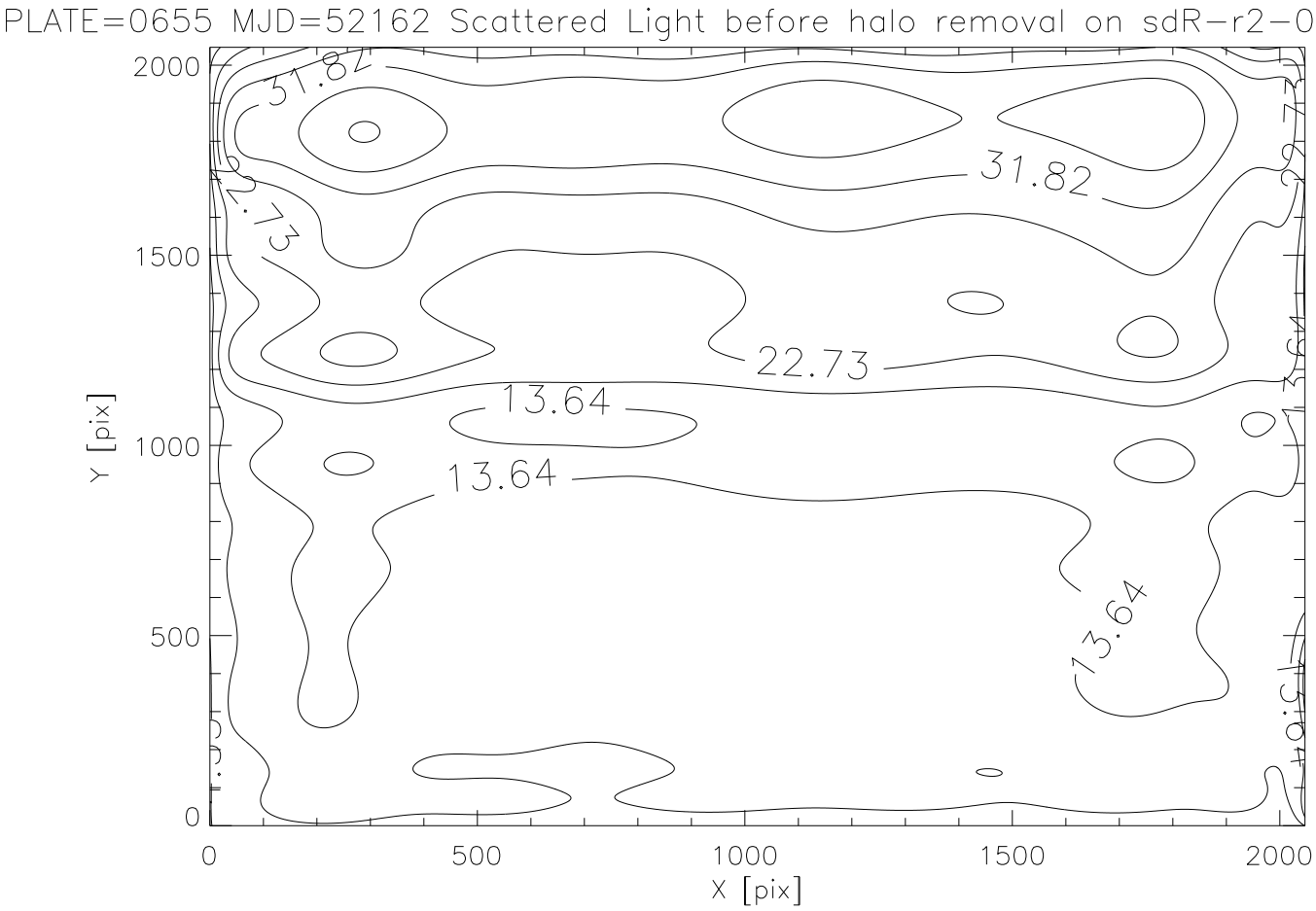

PLATE=0655 MJD=52162 sdR-r2-00010858.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

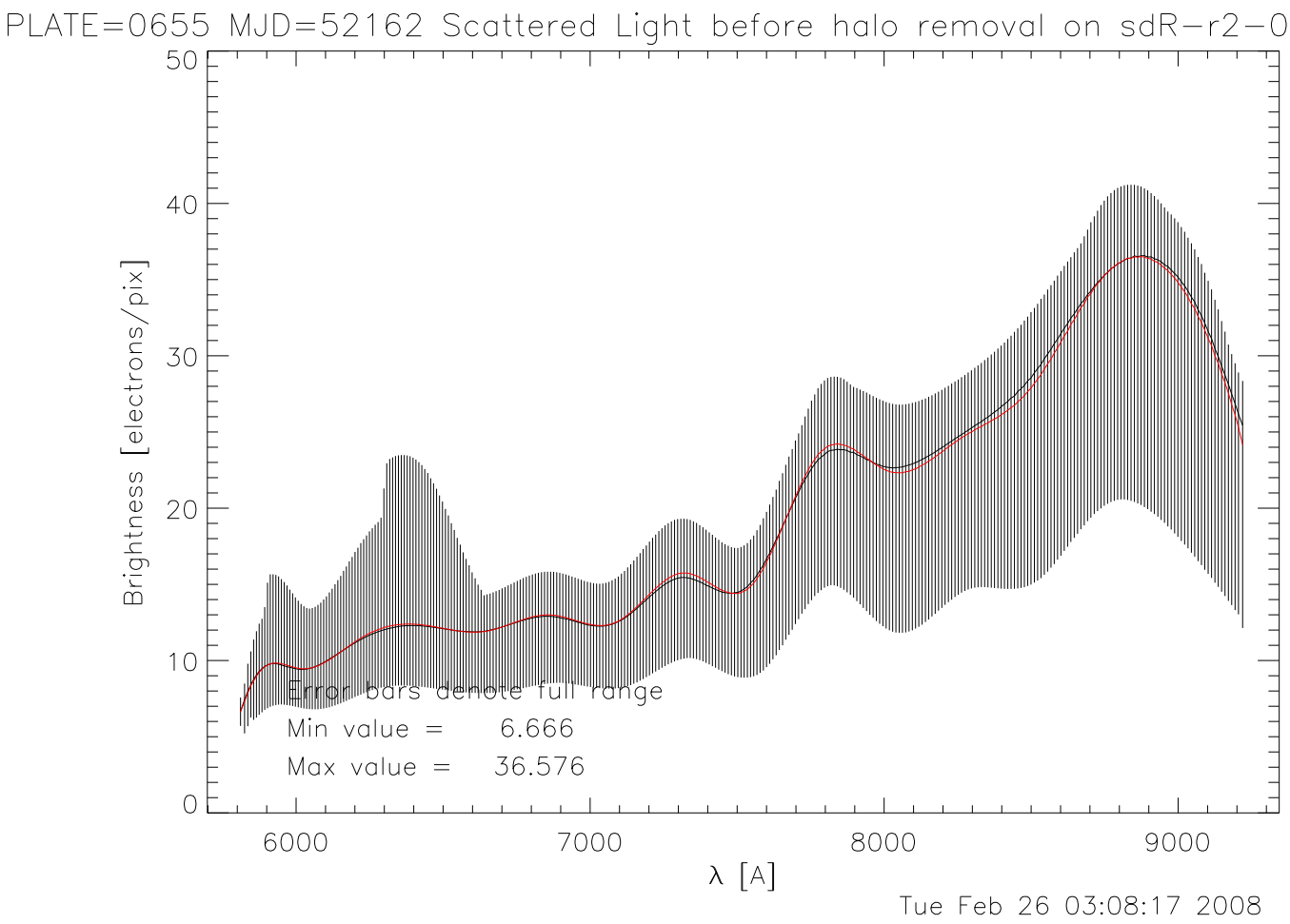

Number of sky fibers = 15
PLATE=0655 MJD=52162 sdR-r2-00010858.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

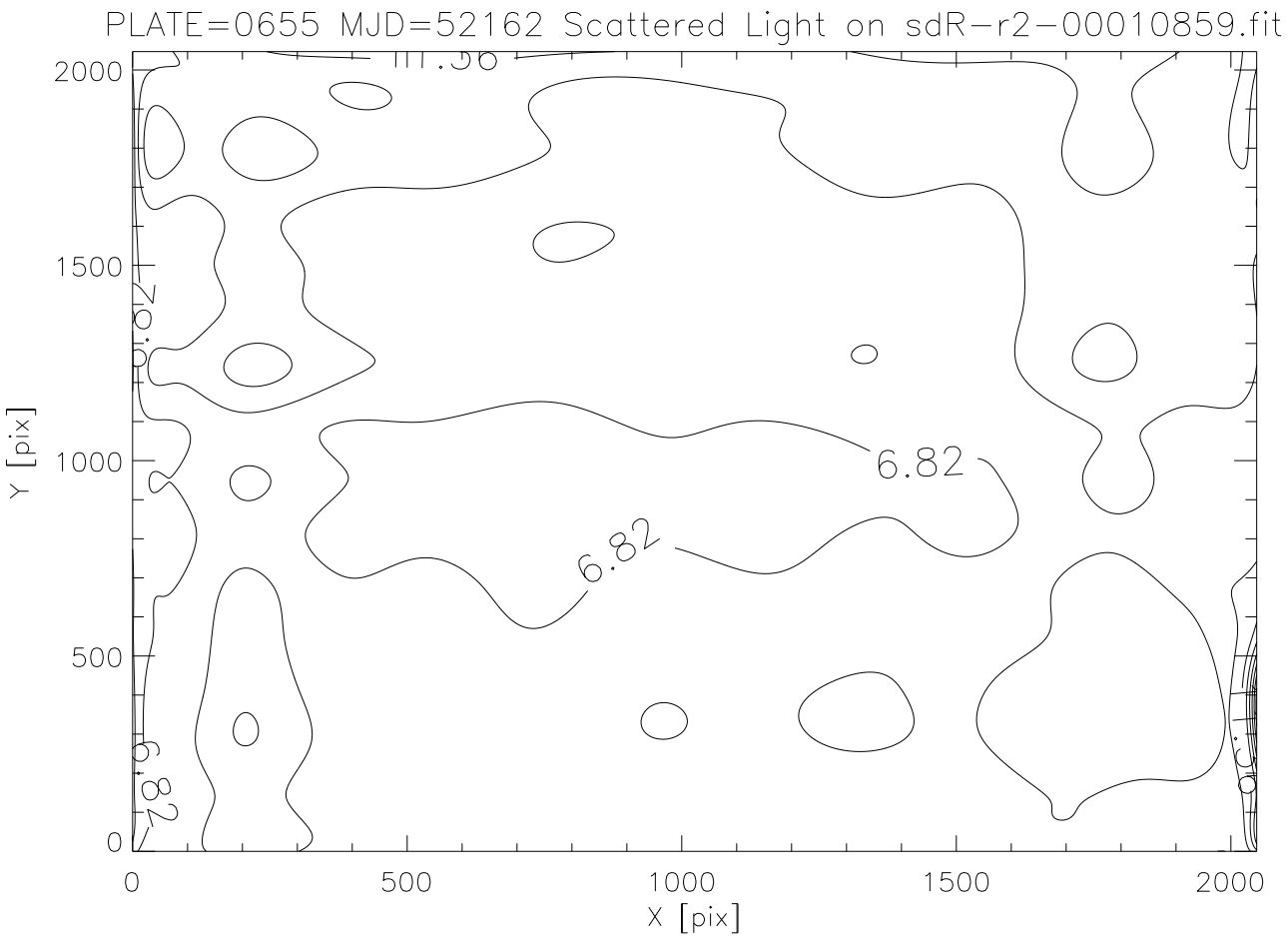

PLATE=0655 MJD=52162 sdR-r2-00010858.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.65 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

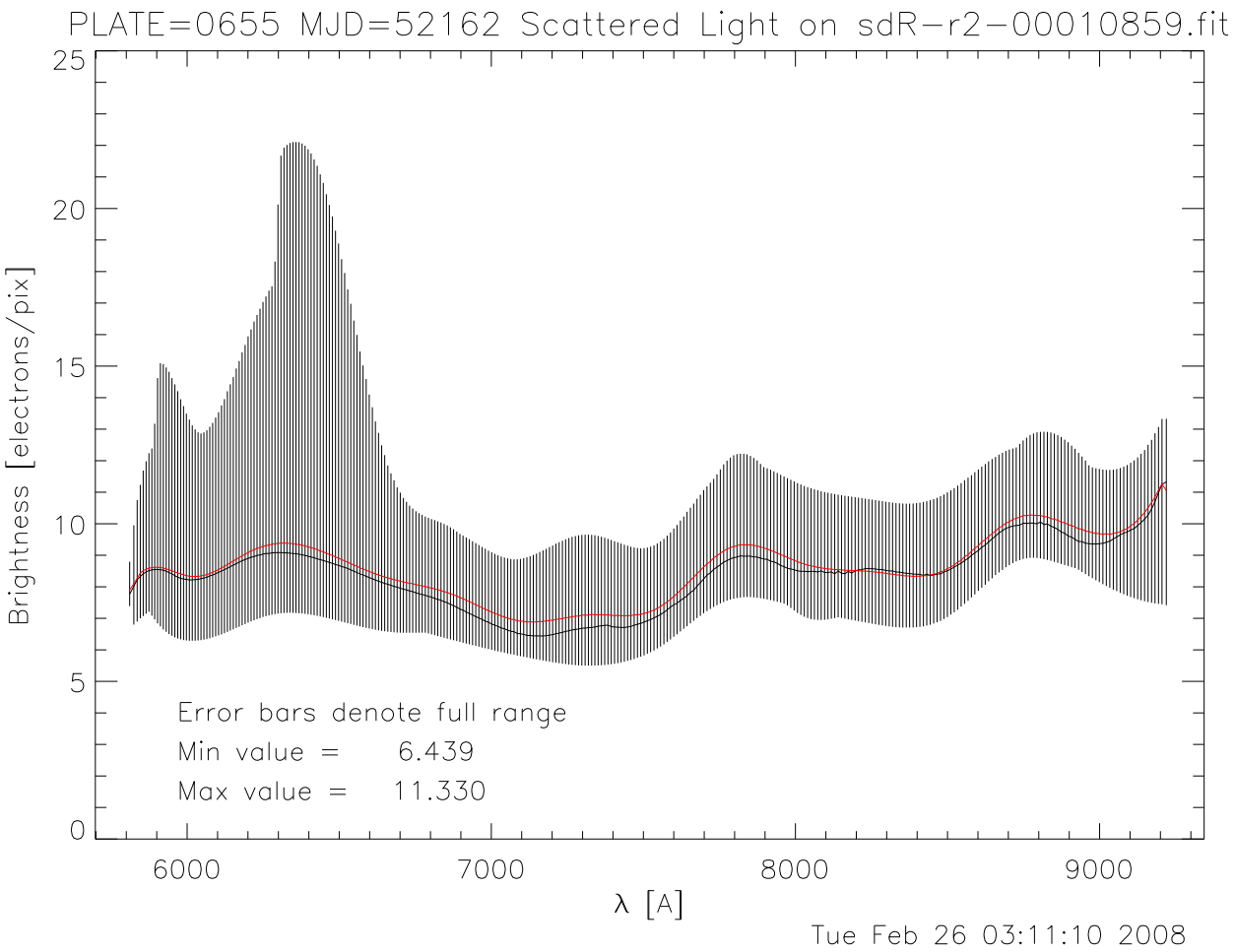

PLATE=0655 MJD=52162 sdR-r2-00010858.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.97 %
Fiber number
Focal Distance [mm]
Airmass

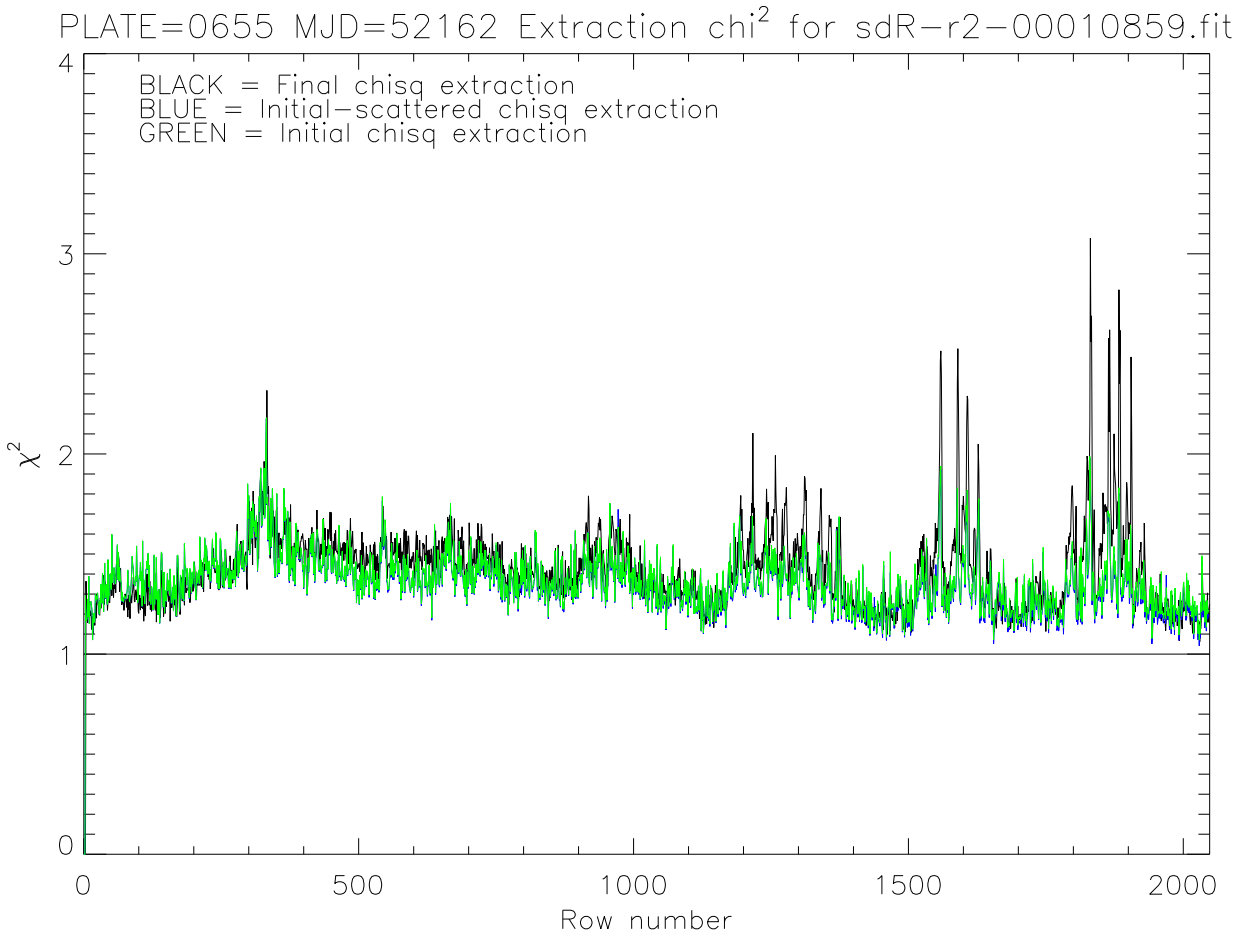

PLATE=0655 MJD=52162 Fiber−Flats for sdR−r2−00010854.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.547
Max value = 1.177
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Tue Feb 26 03:07:28 2008

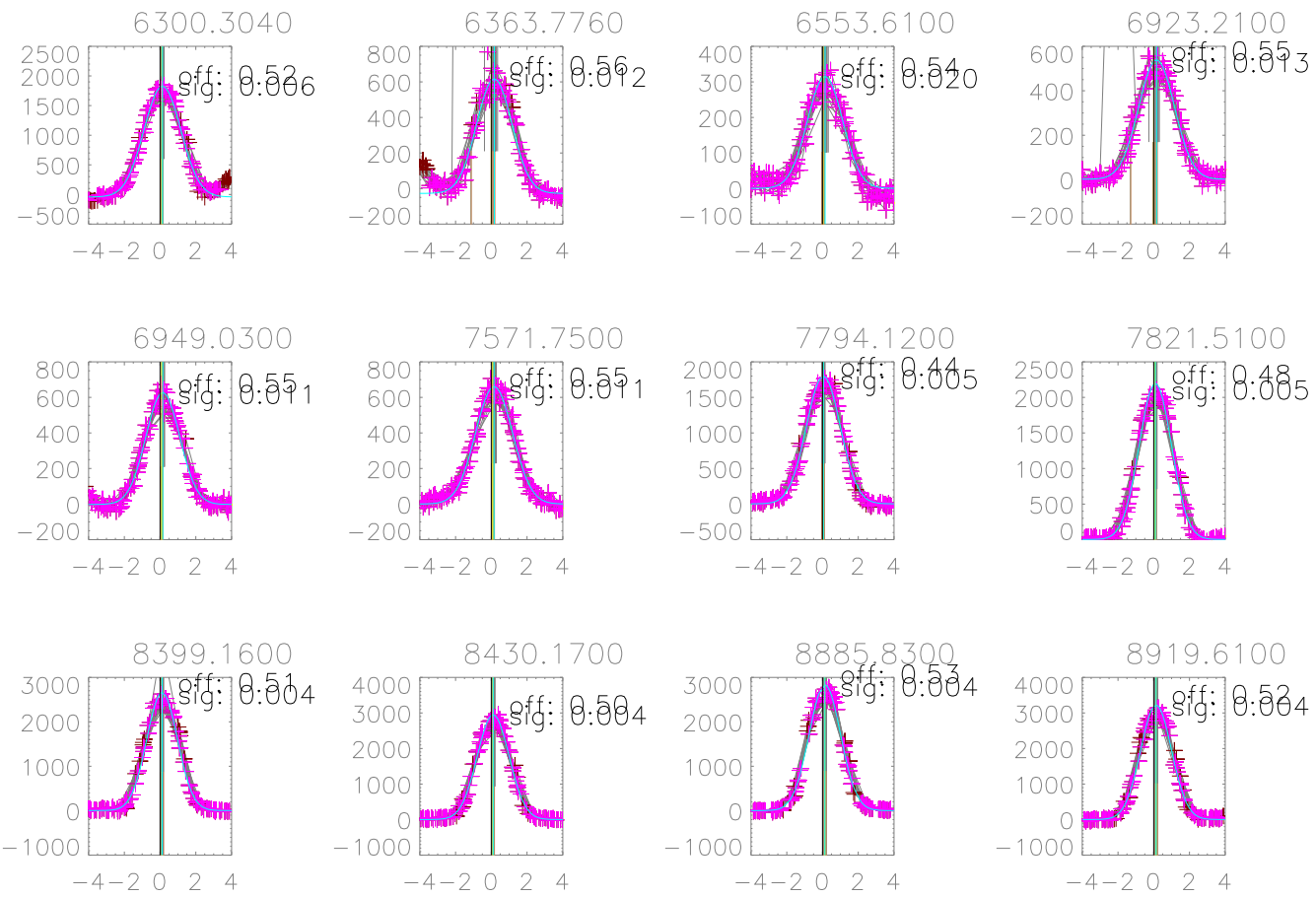

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-r2-00010859.fi
31.82
22.73
13.64
13.64
31.82
22.73
13.64
13.64
Y [pix]
X [pix]
0
500
1000
1500
2000

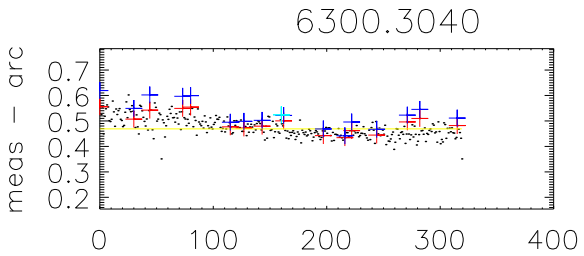

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-r2-00010859.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.666
Max value = 36.576
Tue Feb 26 03:08:17 2008

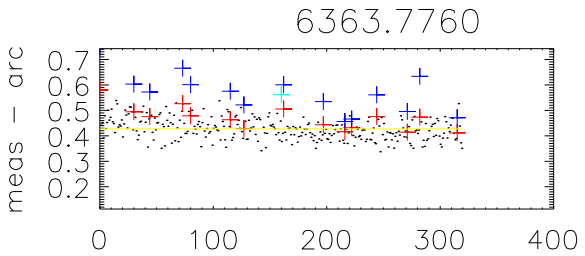

PLATE=0655 MJD=52162 Scattered Light on sdR-r2-00010859.fit
11.36
6.82
6.82
6.82
6.82
11.36
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

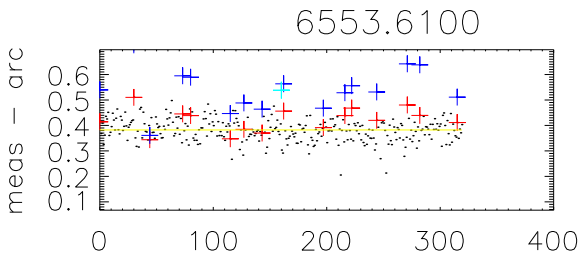

PLATE=0655 MJD=52162 Scattered Light on sdR-r2-00010859.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.439
Max value = 11.330
Tue Feb 26 03:11:10 2008

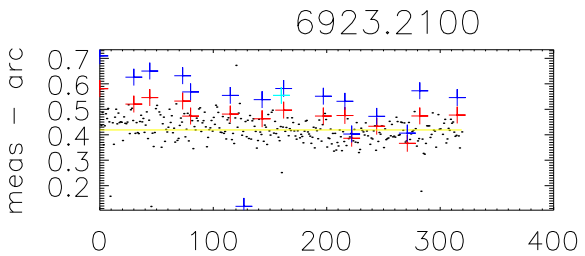

PLATE=0655 MJD=52162 Extraction chi^2 for sdR−r2−00010859.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

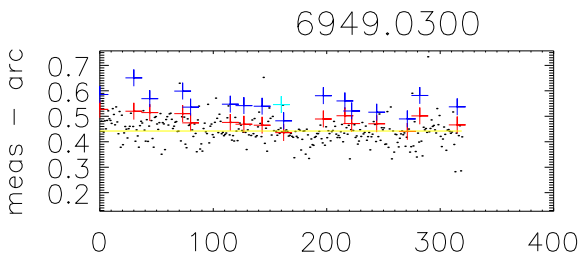

6300.3040
off: 0.52
sig: 0.006
6363.7760
off: 0.56
sig: 0.012
6553.6100
off: 0.54
sig: 0.020
6923.2100
off: 0.55
sig: 0.013
6949.0300
off: 0.55
sig: 0.011
7571.7500
off: 0.55
sig: 0.011
7794.1200
off: 0.44
sig: 0.005
7821.5100
off: 0.48
sig: 0.005
8399.1600
off: 0.51
sig: 0.004
8430.1700
off: 0.50
sig: 0.004
8885.8300
off: 0.53
sig: 0.004
8919.6100
off: 0.52
sig: 0.004

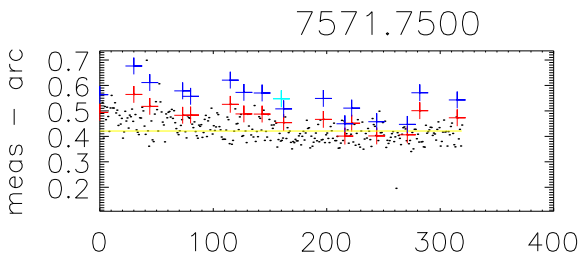

6300.3040
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

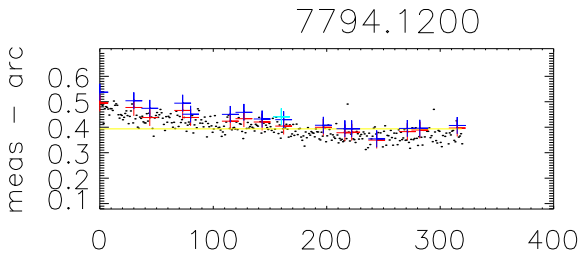

6363.7760
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

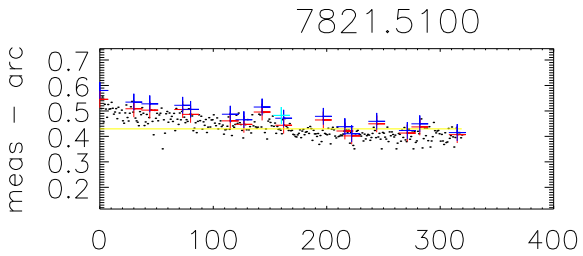

6553.6100
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

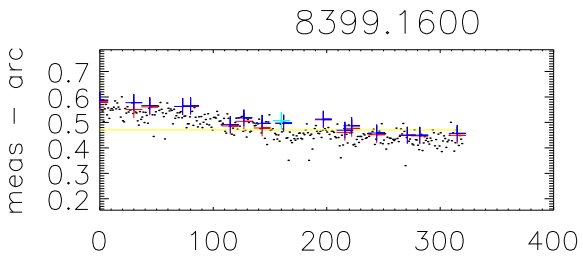

6923.2100
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

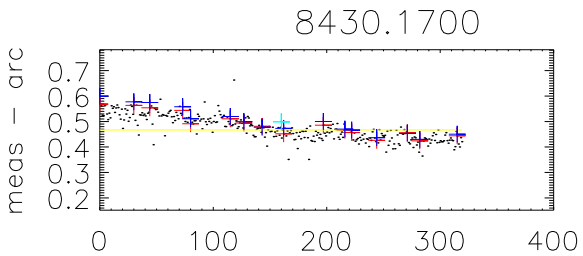

6949.0300
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

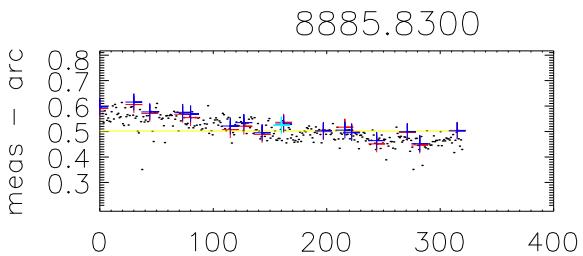

7571.7500
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

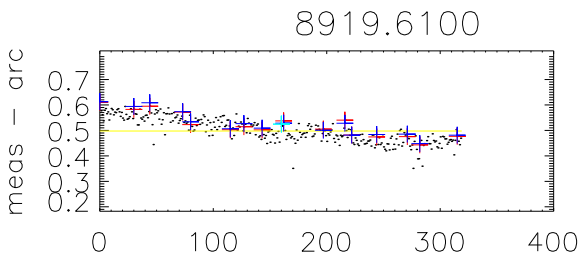

7794.1200
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

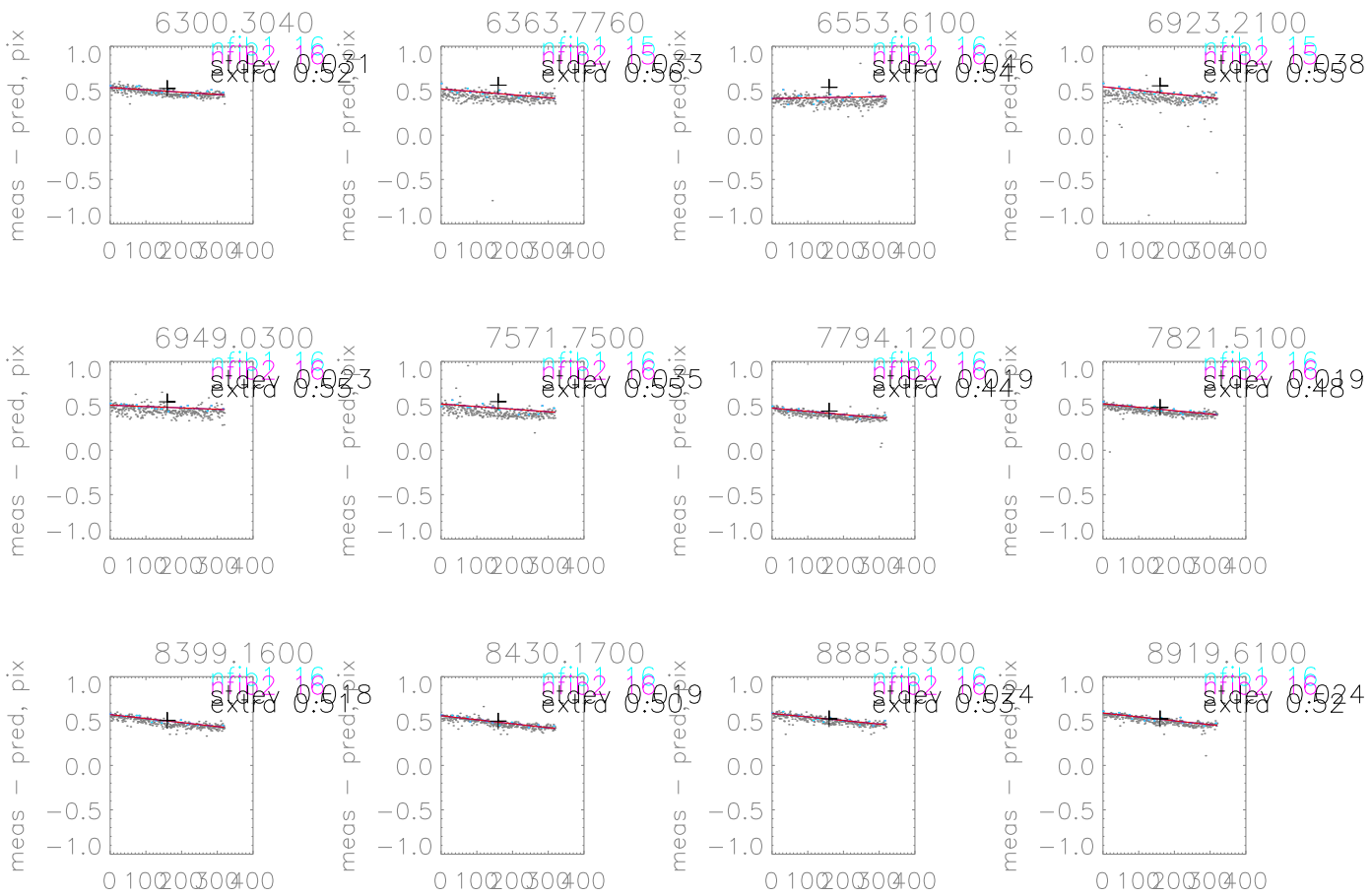

7821.5100
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

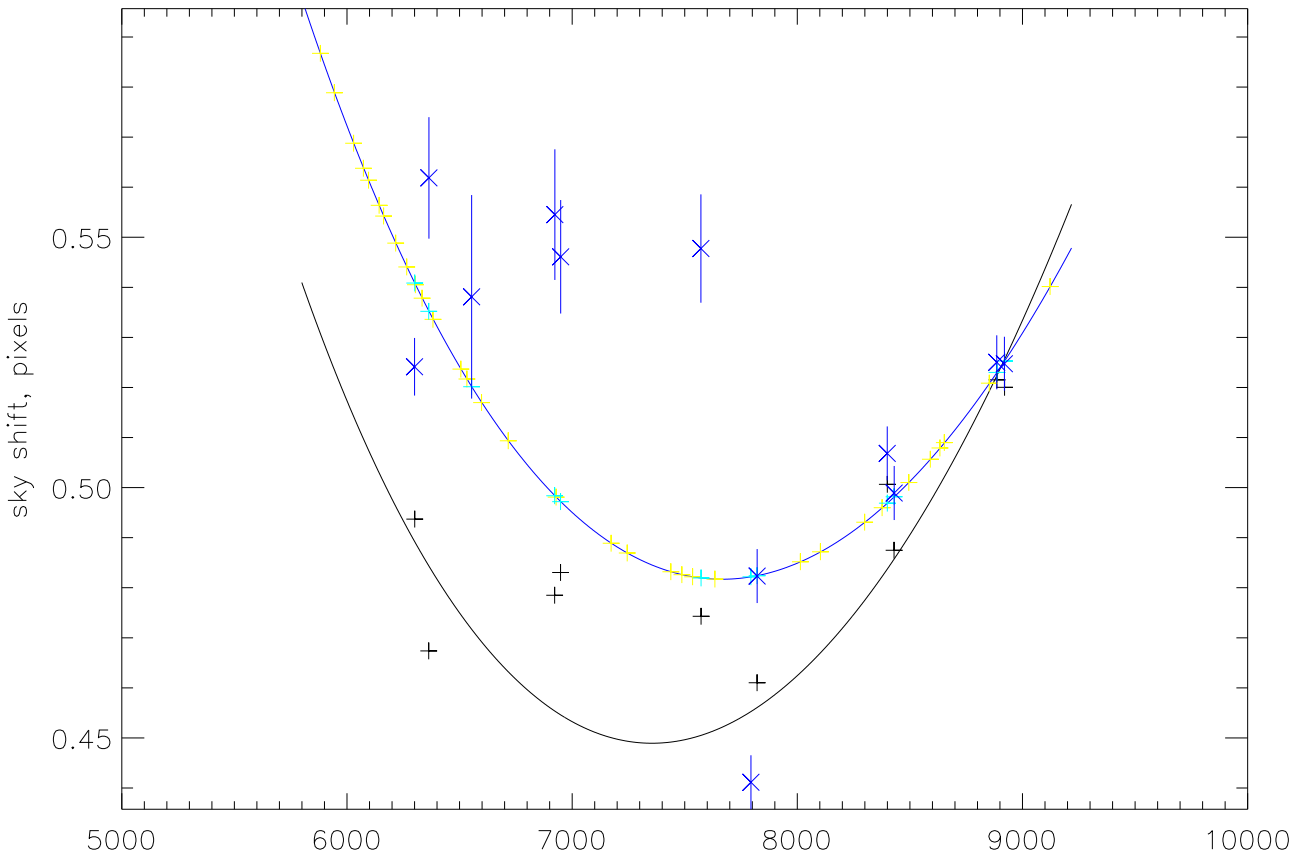

8399.1600
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

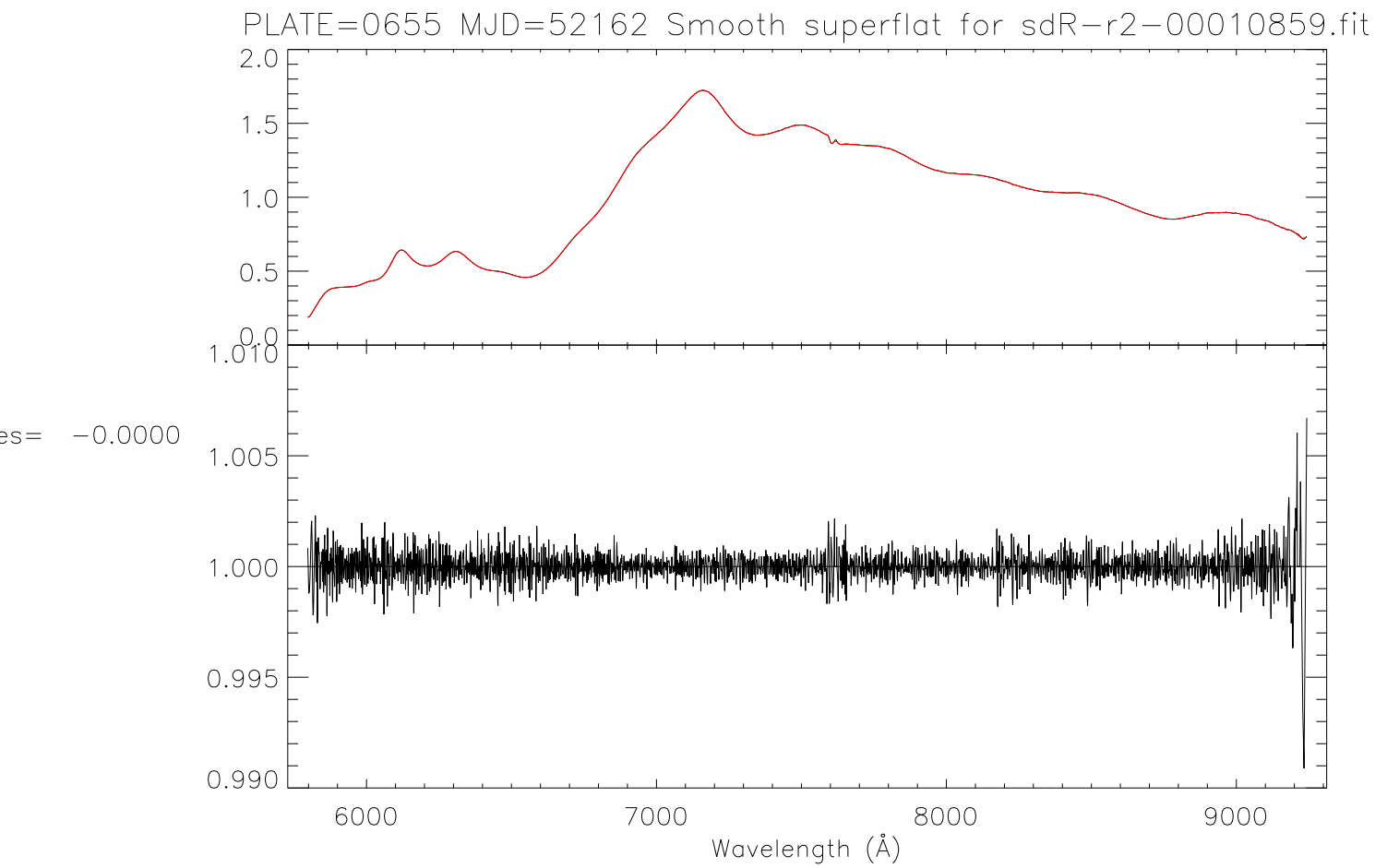

8430.1700
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

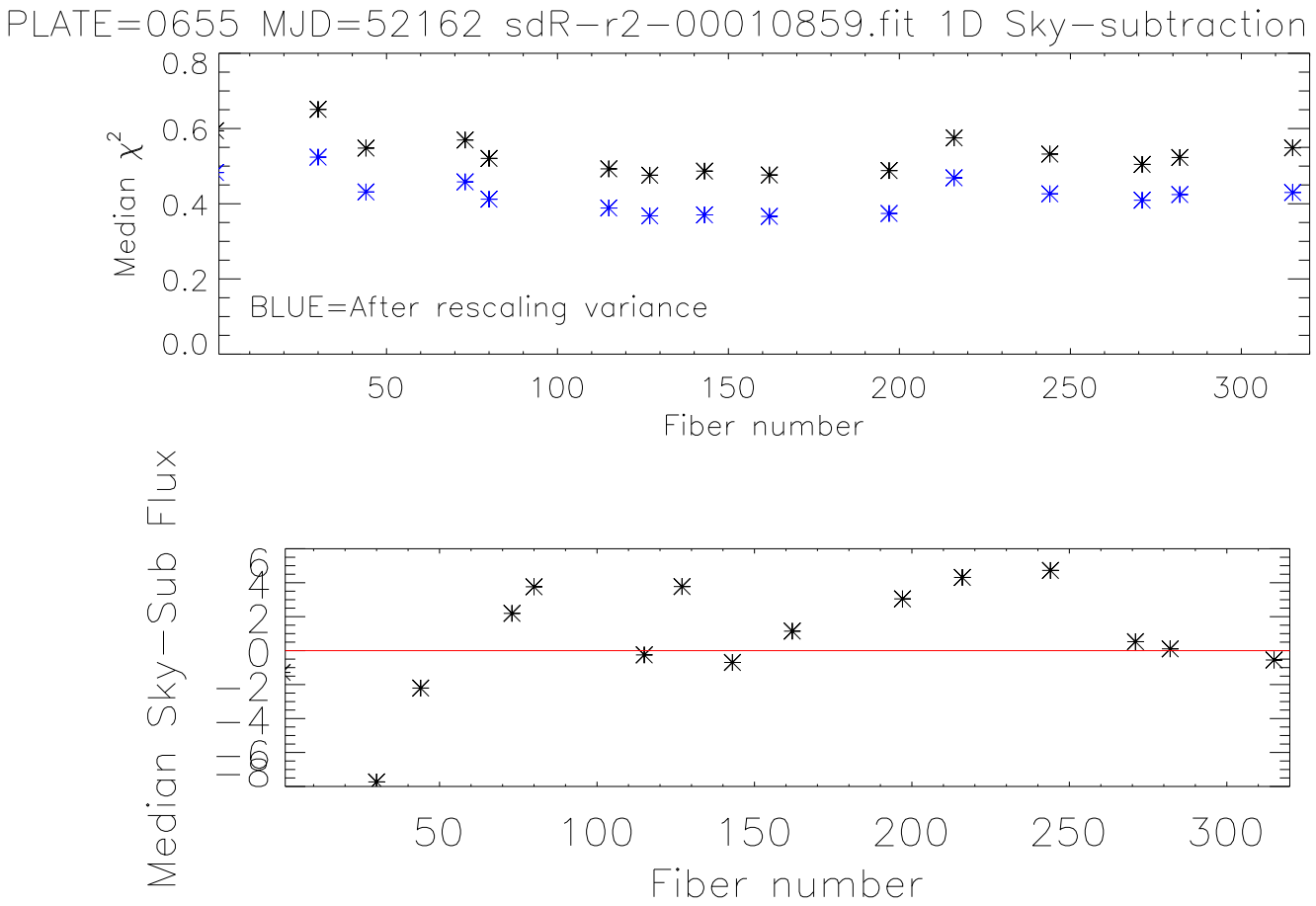

8885.8300
meas − arc
0.8
0.7
0.6
0.5
0.4
0.3
0
100
200
300
400


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

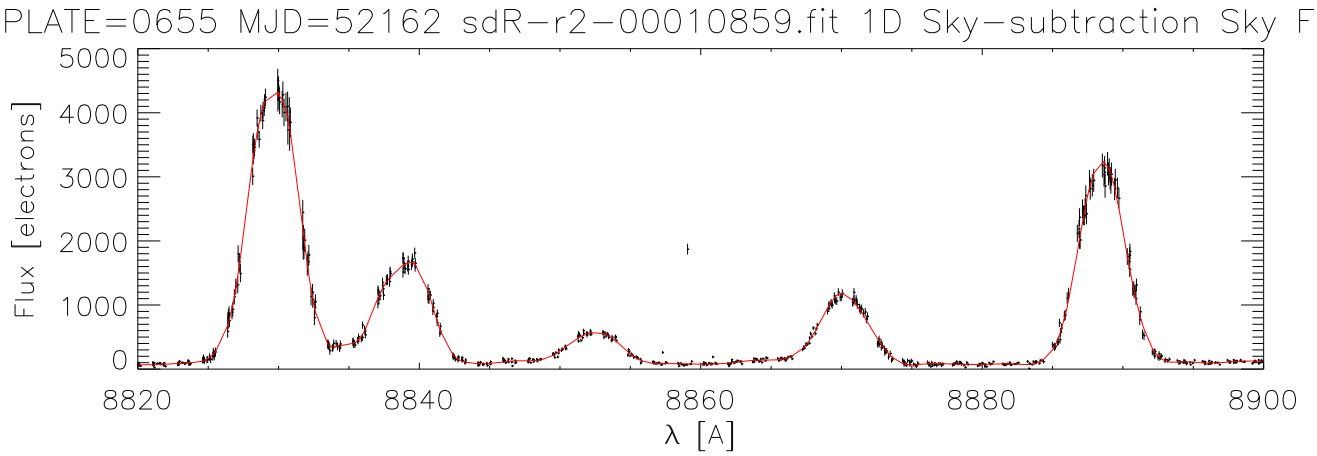

6300.3040
stdev 0.021
extrd 0:52
6363.7760
stdev 0.023
extrd 0:56
6553.6100
stdev 0.026
extrd 0:54
6923.2100
stdev 0.038
extrd 0:55
6949.0300
stdev 0.023
extrd 0:55
7571.7500
stdev 0.025
extrd 0:55
7794.1200
stdev 0.019
extrd 0:44
7821.5100
stdev 0.019
extrd 0:48
8399.1600
stdev 0.018
extrd 0:51
8430.1700
stdev 0.019
extrd 0:50
8885.8300
stdev 0.024
extrd 0:53
8919.6100
stdev 0.024
extrd 0:52
meas − pred, pix
mfhd2 16
mfhd2 15

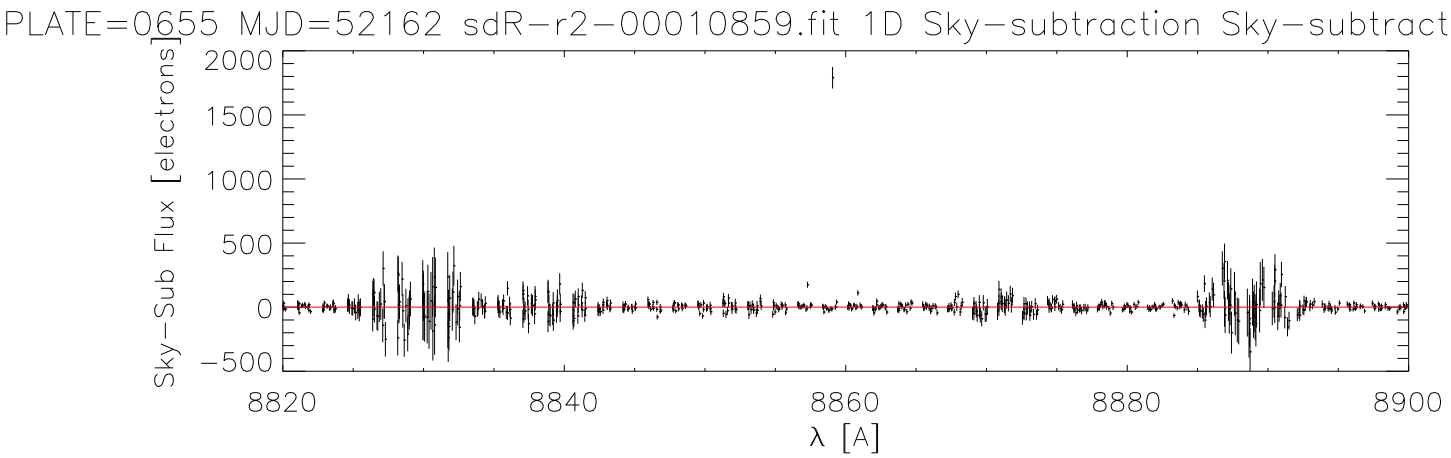

sky shift, pixels
0.55
0.50
0.45
5000
6000
7000
8000
9000
10000

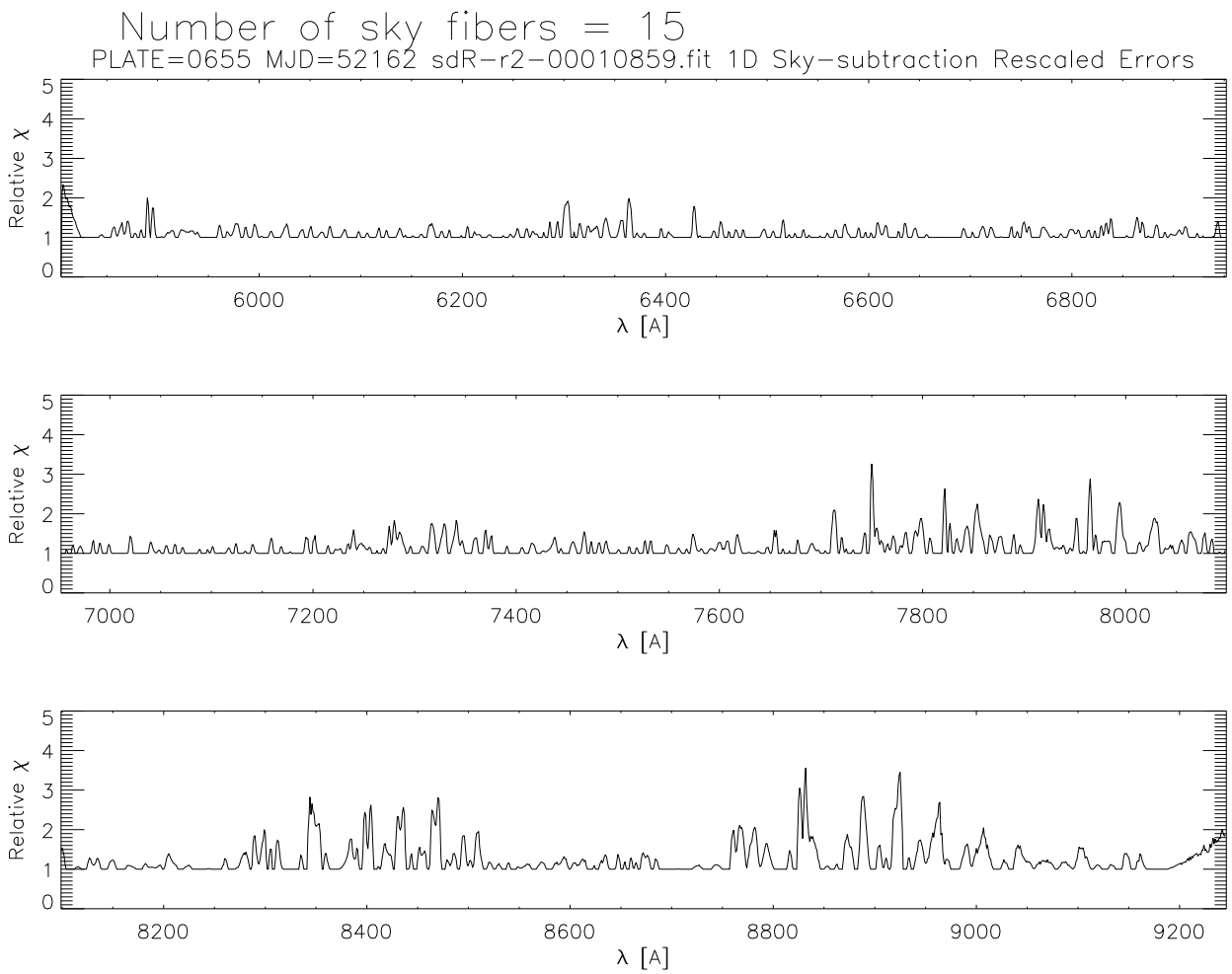

PLATE=0655 MJD=52162 Smooth superflat for sdR-r2-00010859.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

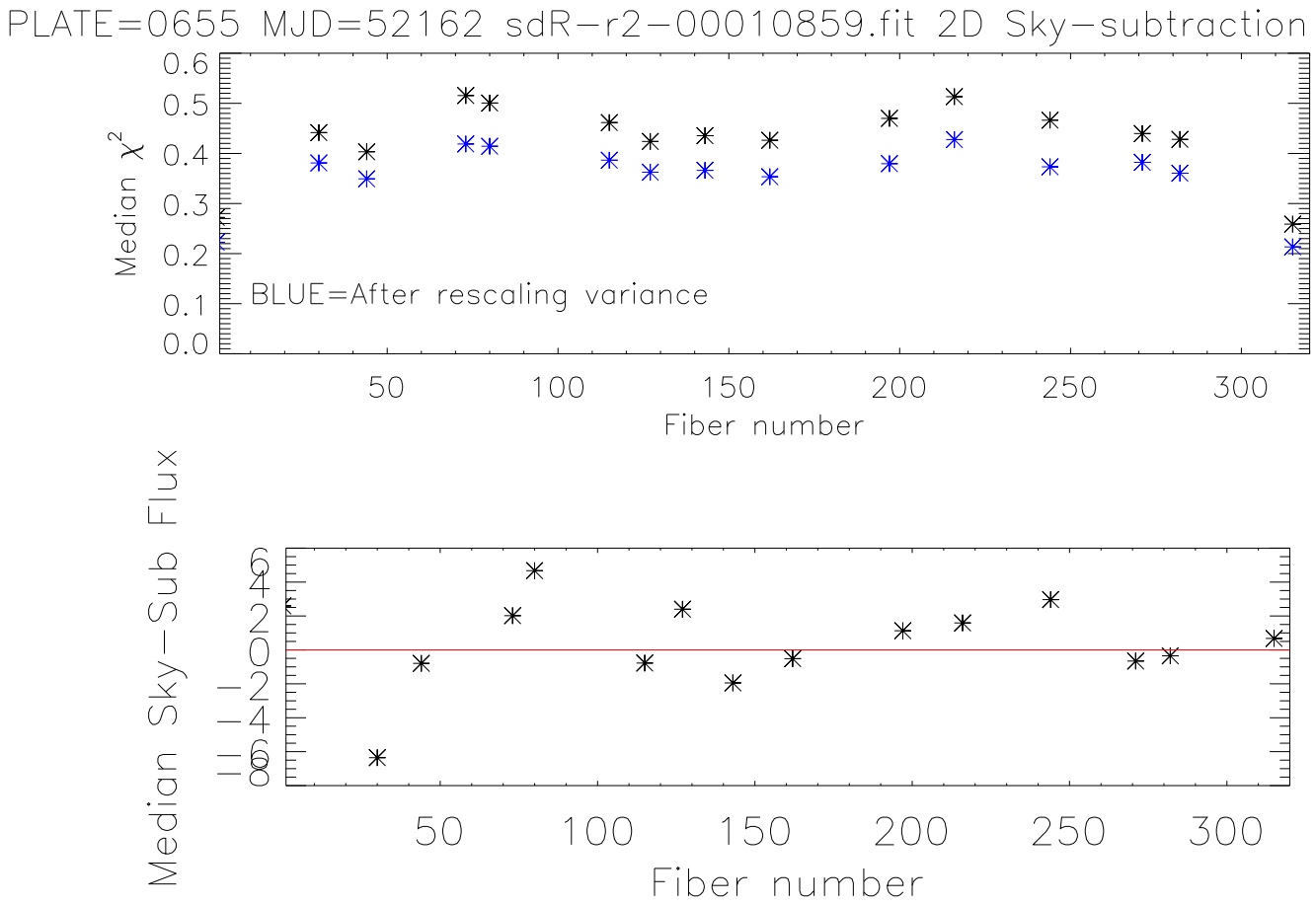

PLATE=0655 MJD=52162 sdR-r2-00010859.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

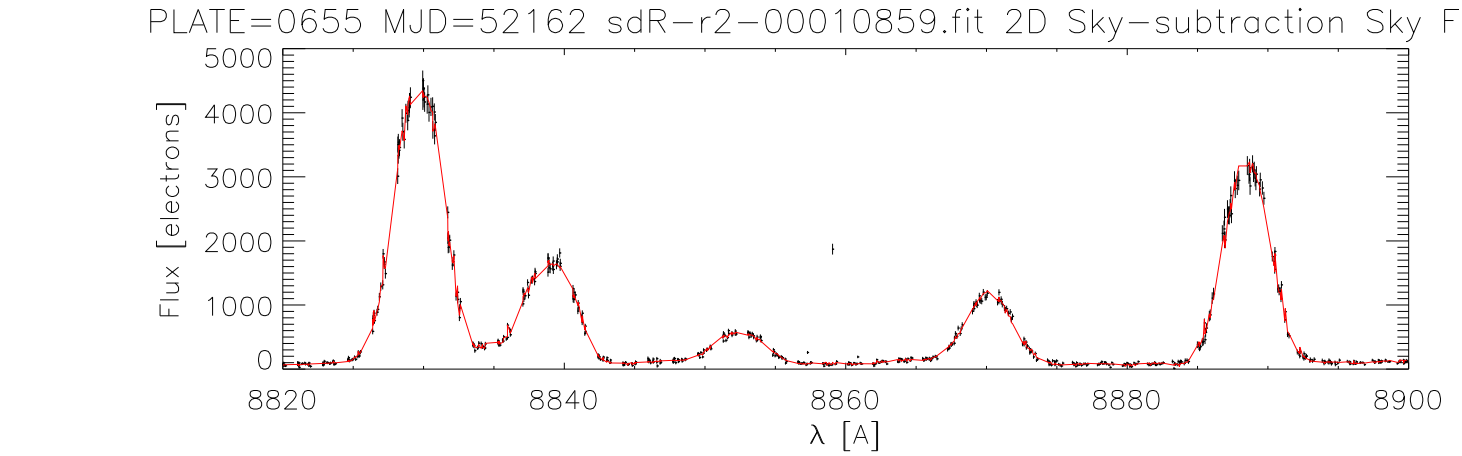
Median Sky-Sub Flux
-0.00046
-0.00042
-0.00038
-0.00034
50
100
150
200
250
300
Fiber number

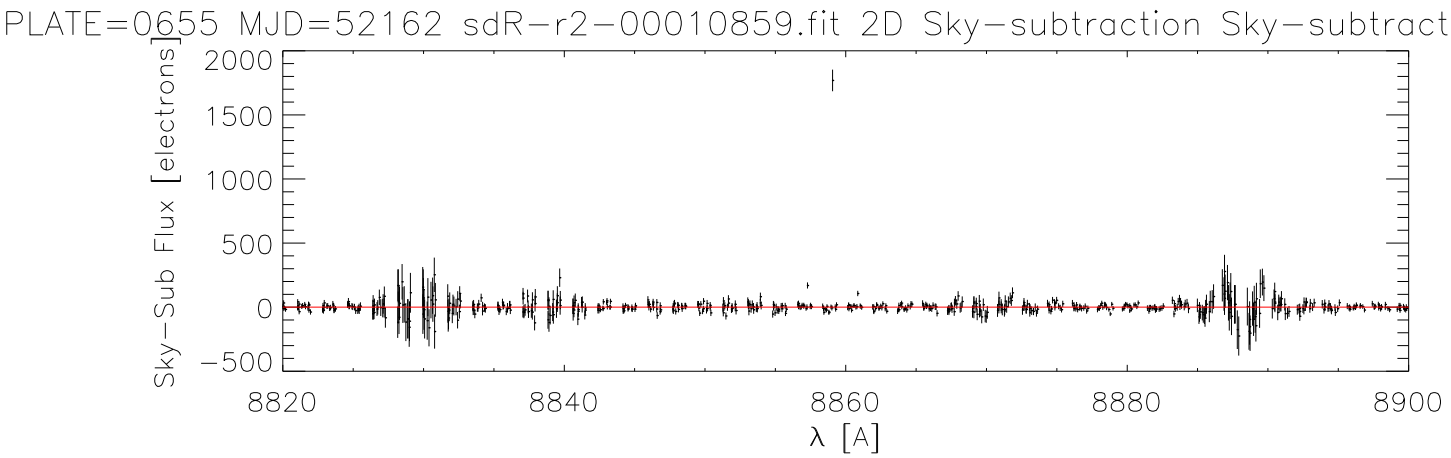

PLATE=0655 MJD=52162 sdR-r2-00010859.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

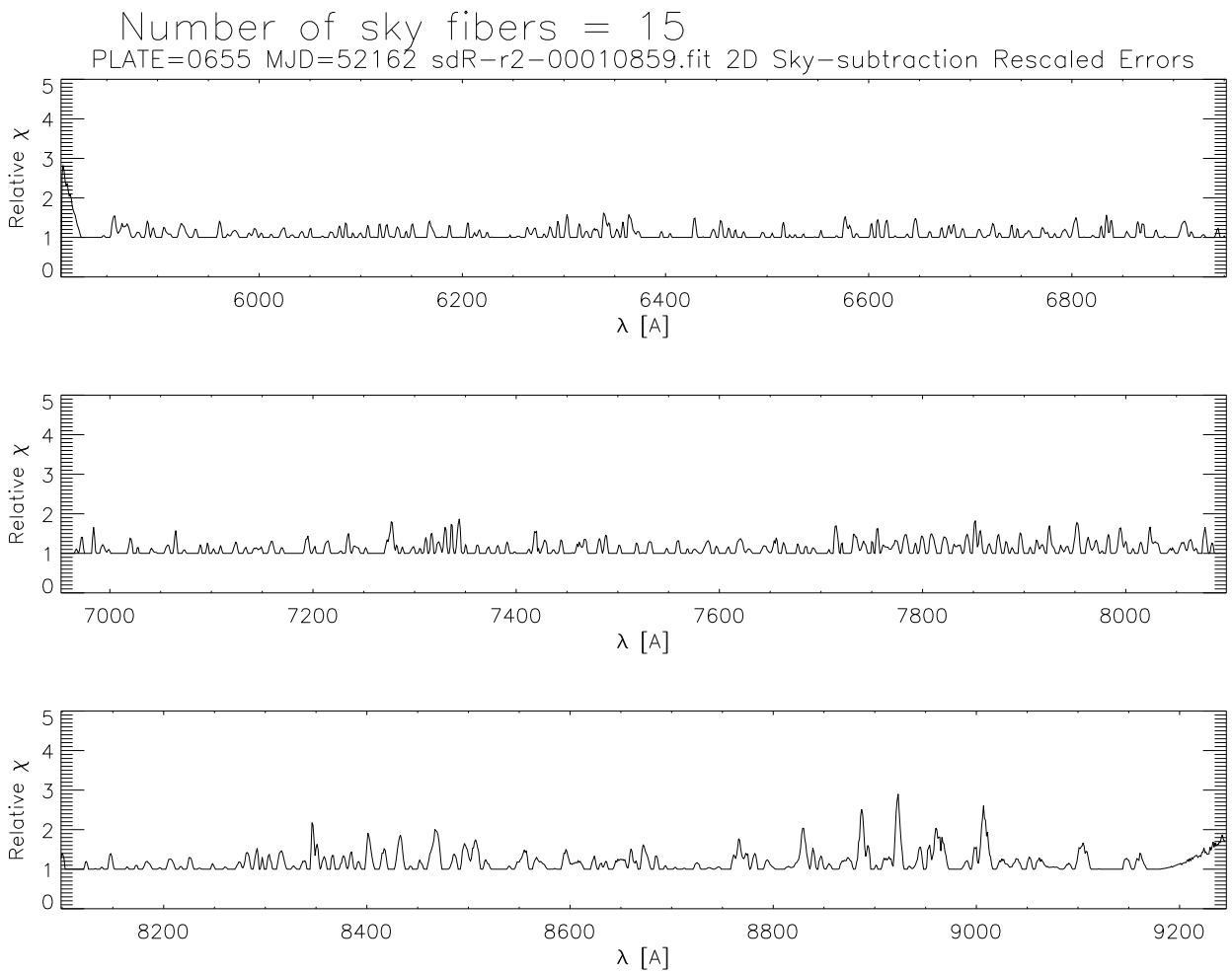

PLATE=0655 MJD=52162 sdR-r2-00010859.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

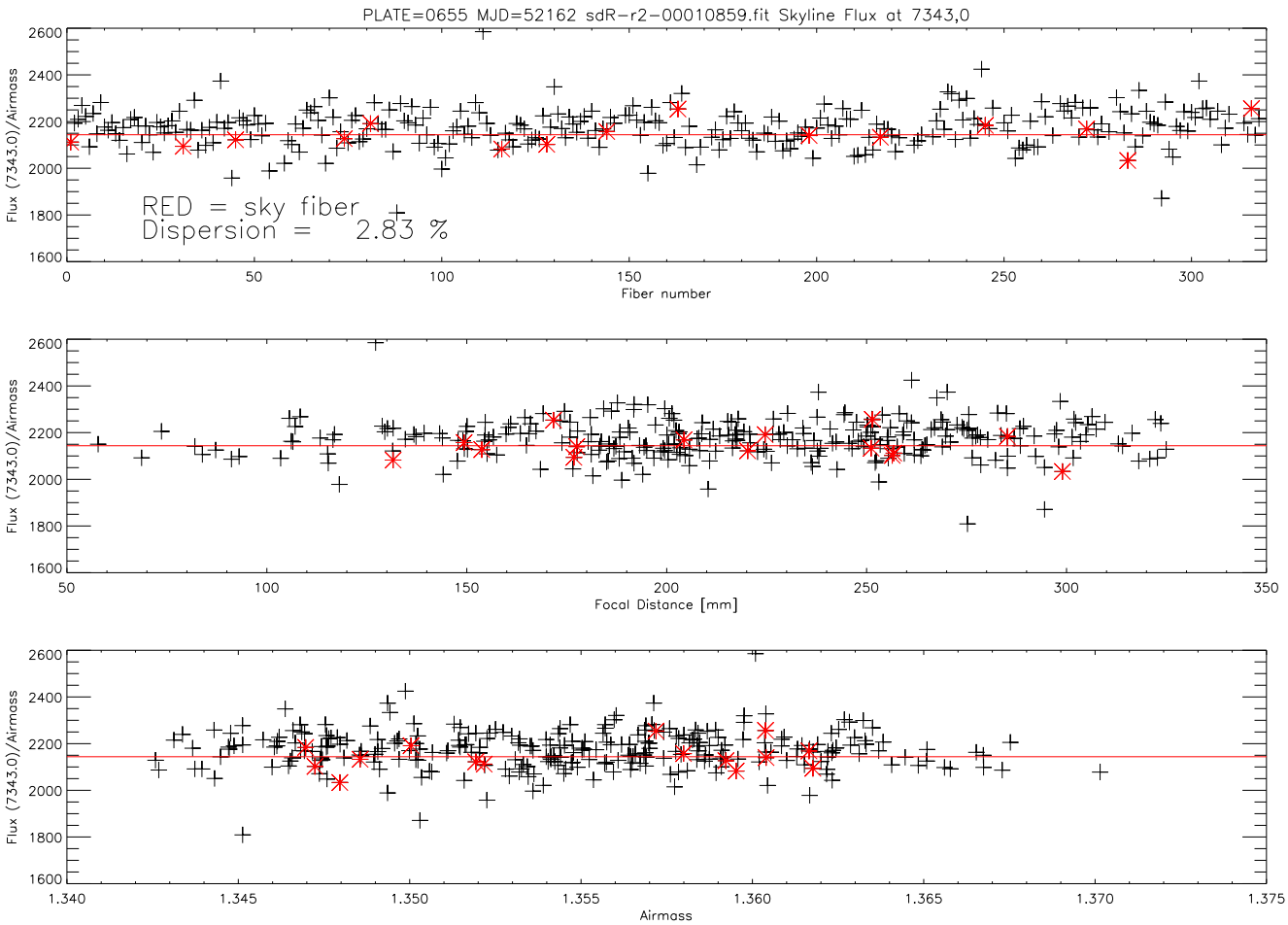

Number of sky fibers = 15
PLATE=0655 MJD=52162 sdR-r2-00010859.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

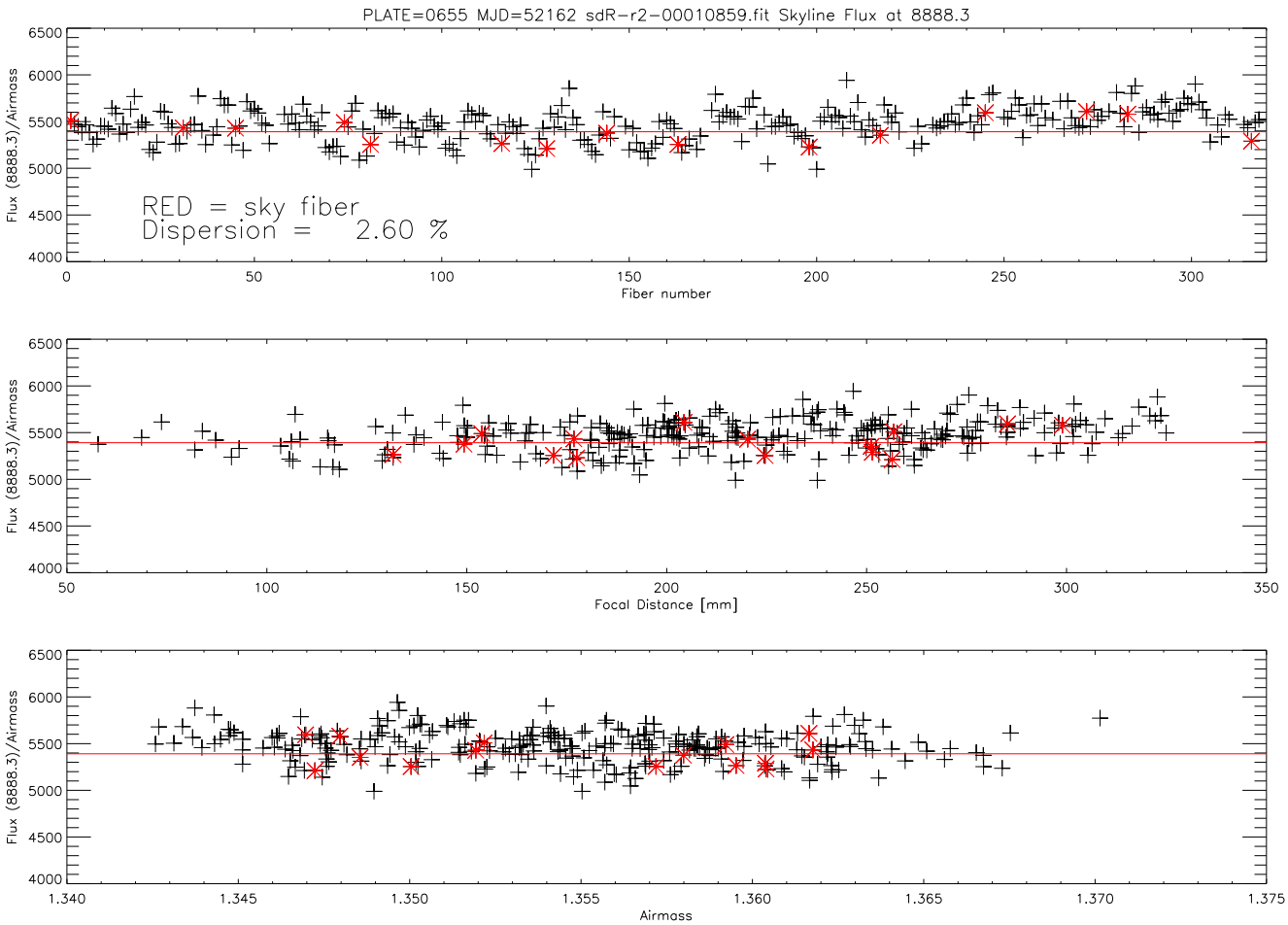

PLATE=0655 MJD=52162 sdR-r2-00010859.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-1.1e-06
-1e-06
-9e-07
-8e-07
-7e-07
-6e-07
-5e-07
-4e-07
-3e-07
-2e-07
-1e-07
0
1e-07
2e-07
3e-07
4e-07
50
100
150
200
250
300
Fiber number

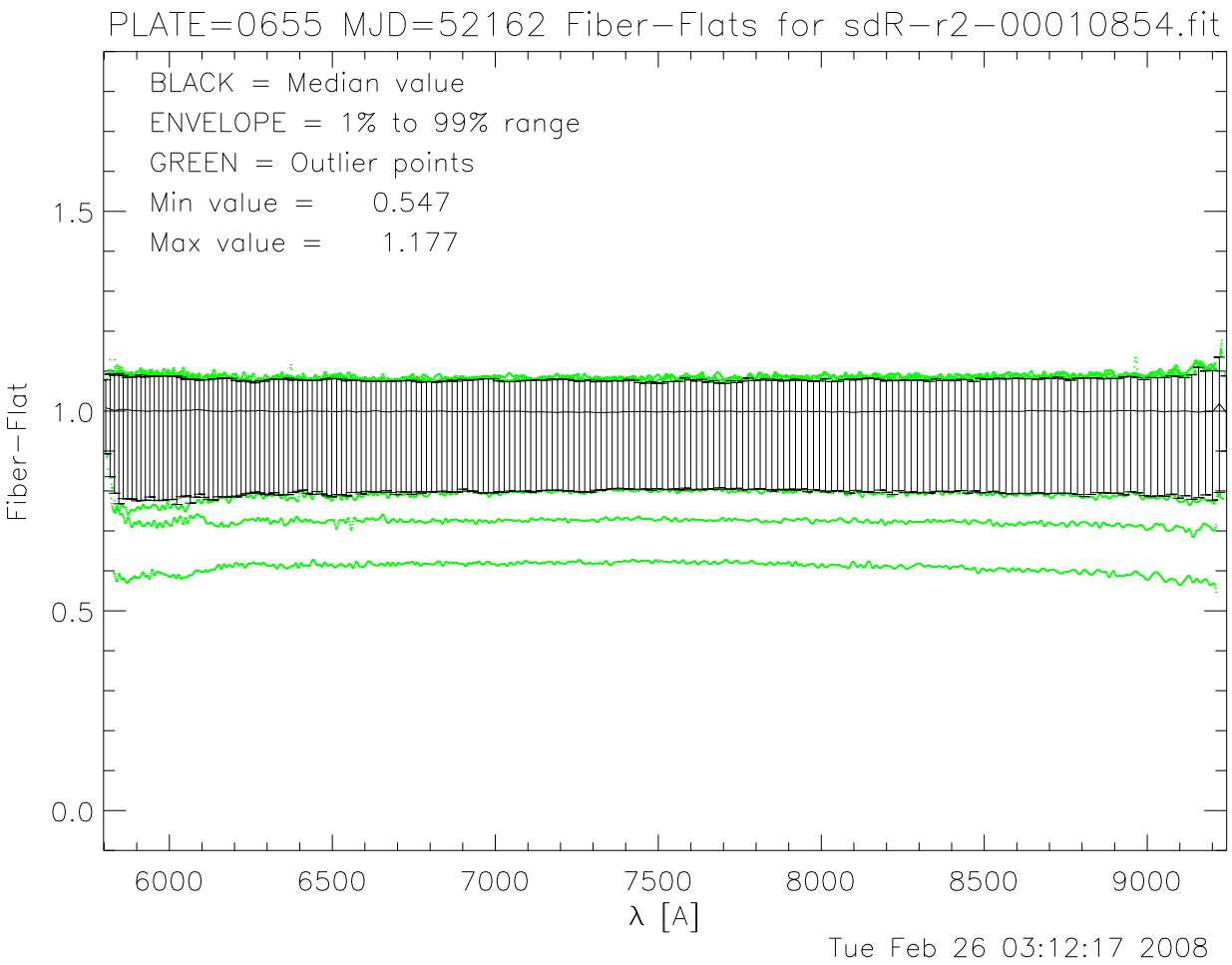

PLATE=0655 MJD=52162 sdR-r2-00010859.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

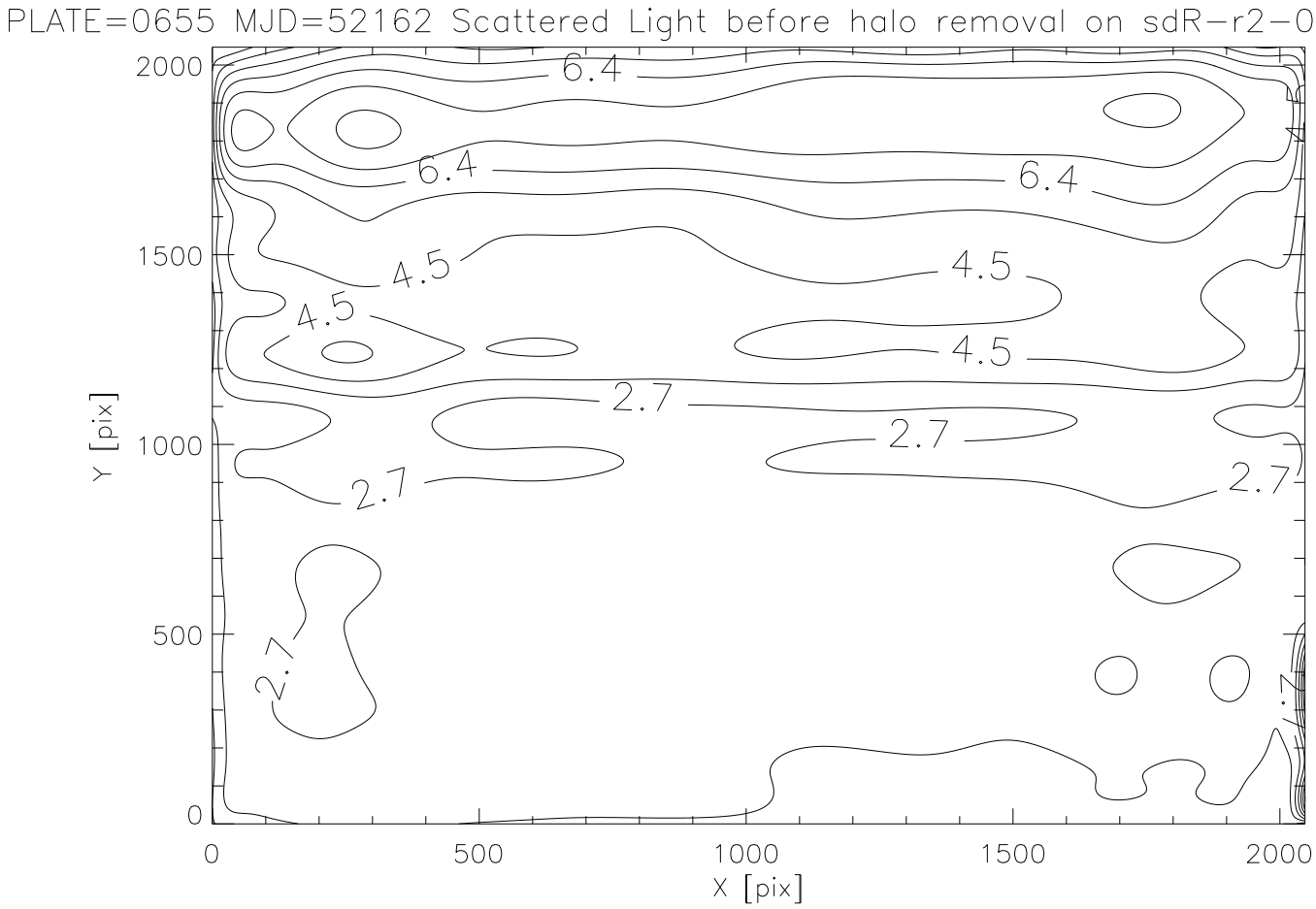

PLATE=0655 MJD=52162 sdR-r2-00010859.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

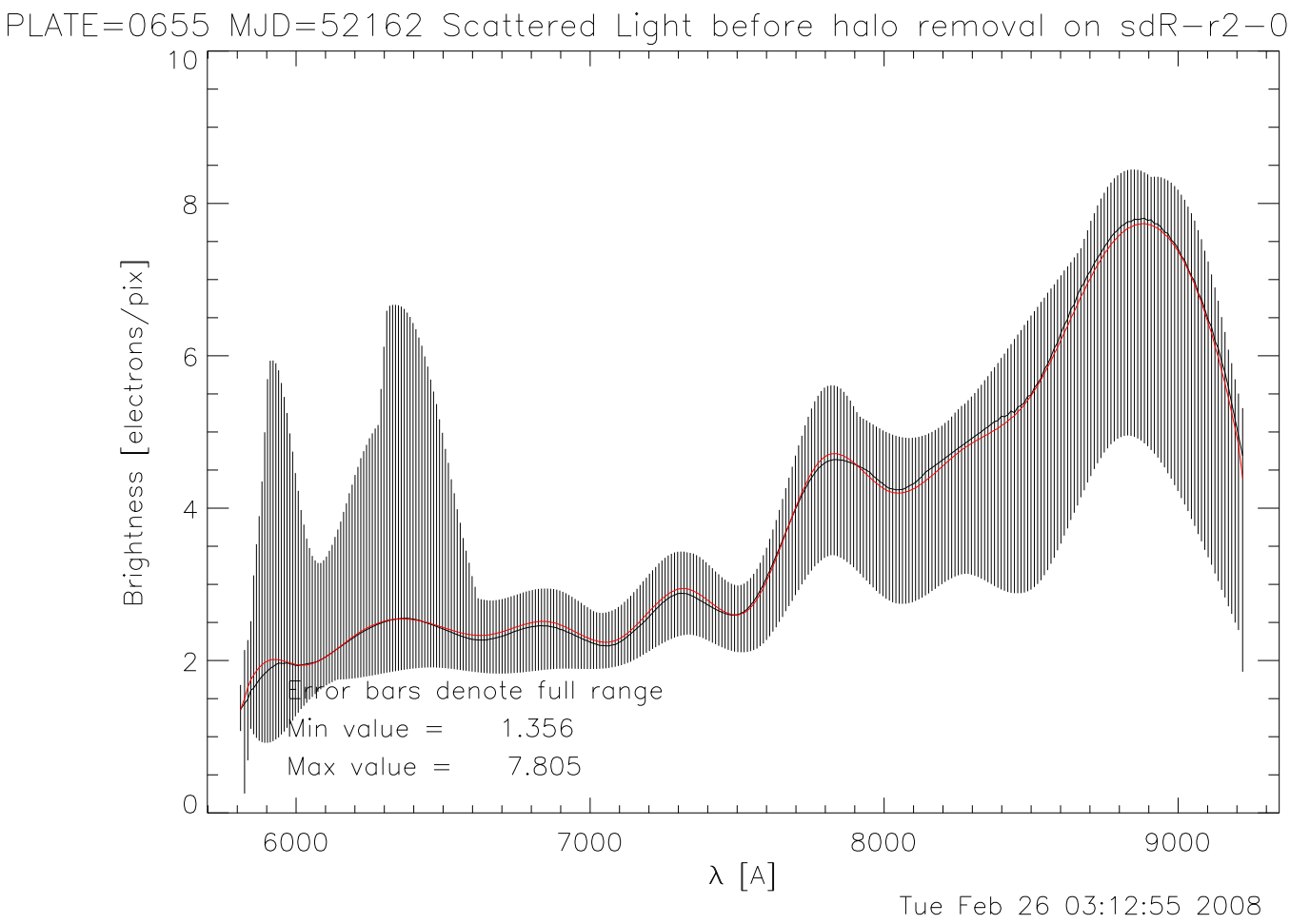

Number of sky fibers = 15
PLATE=0655 MJD=52162 sdR-r2-00010859.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

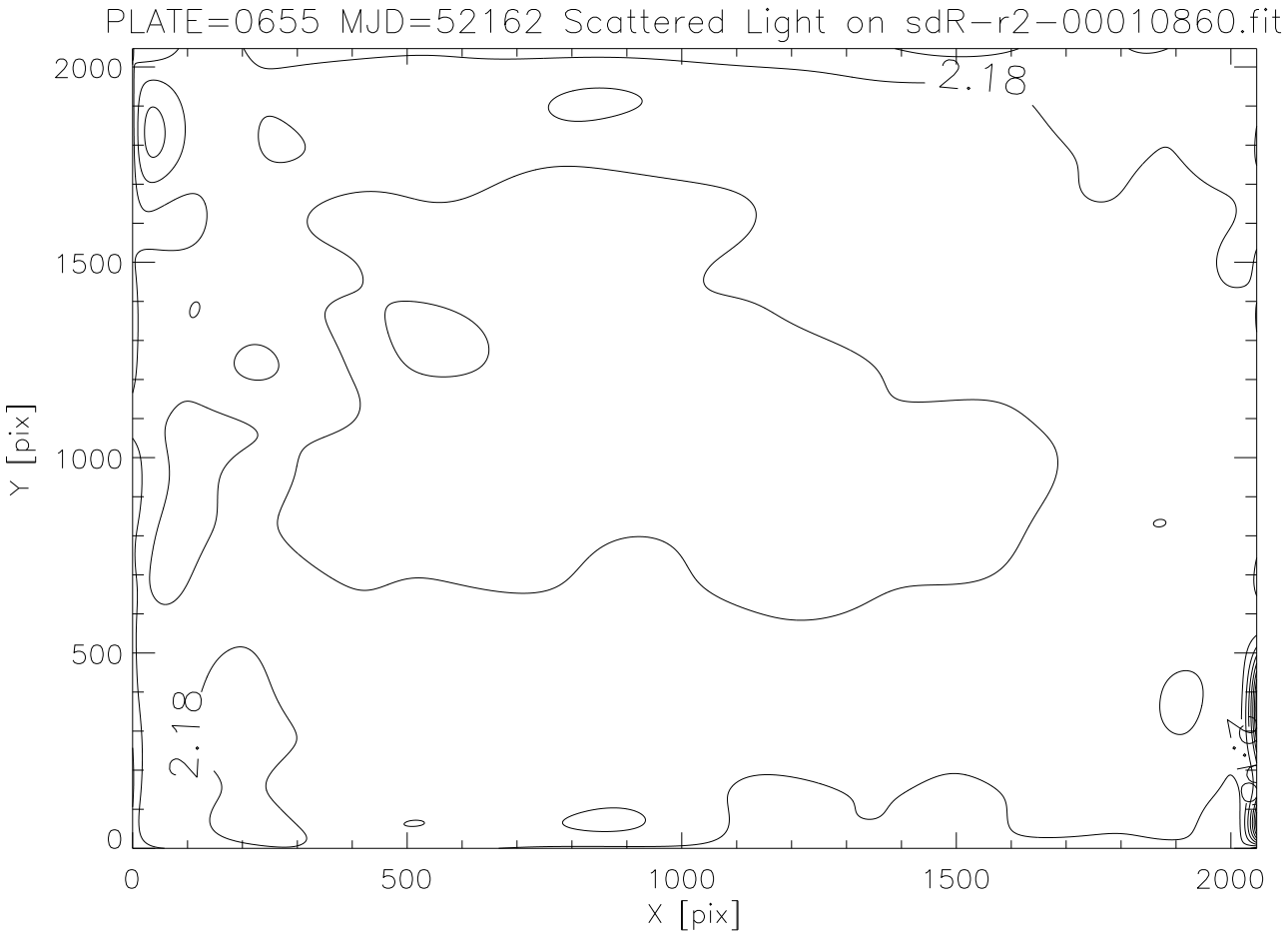

PLATE=0655 MJD=52162 sdR-r2-00010859.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.83 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

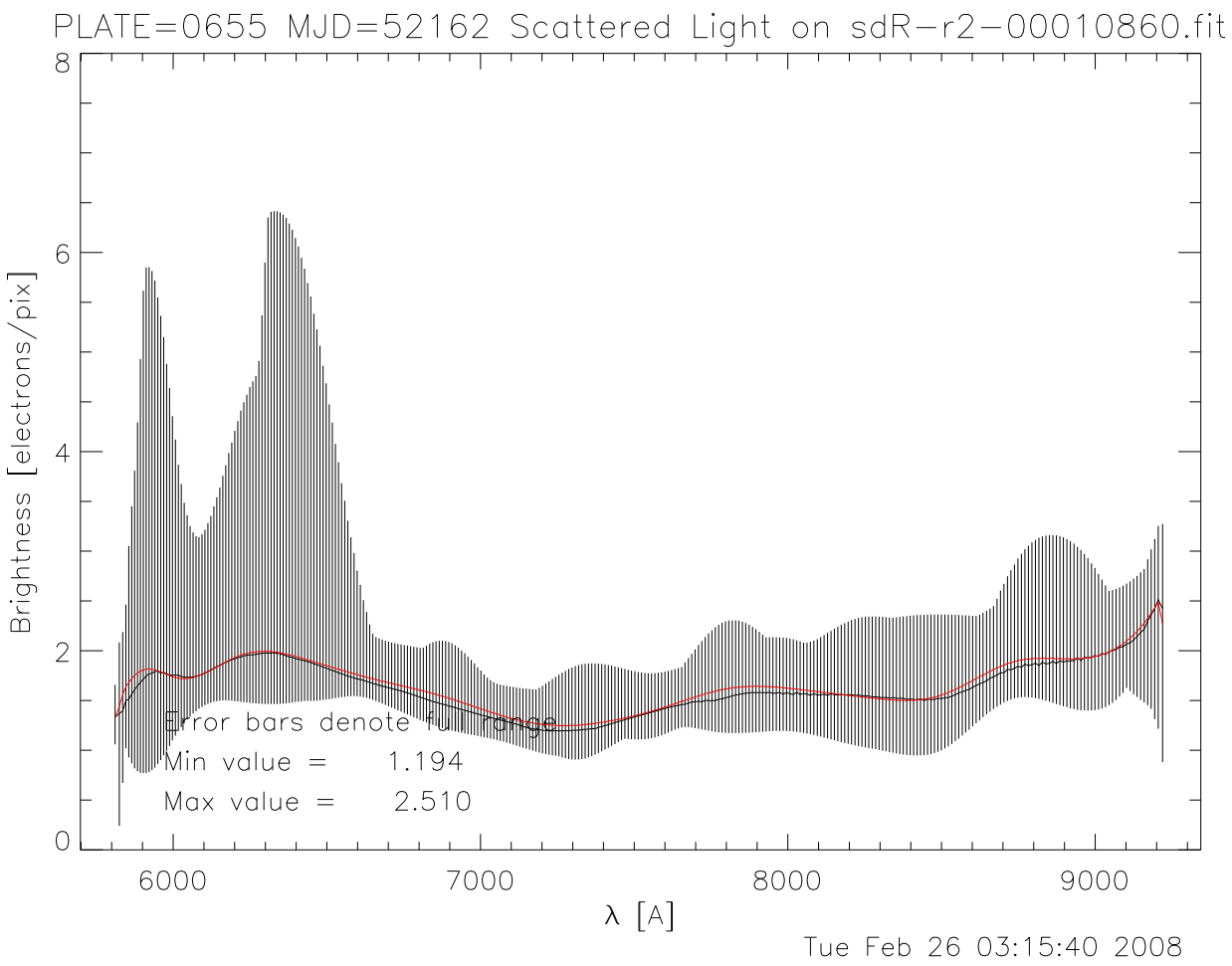

PLATE=0655 MJD=52162 sdR-r2-00010859.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.60 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

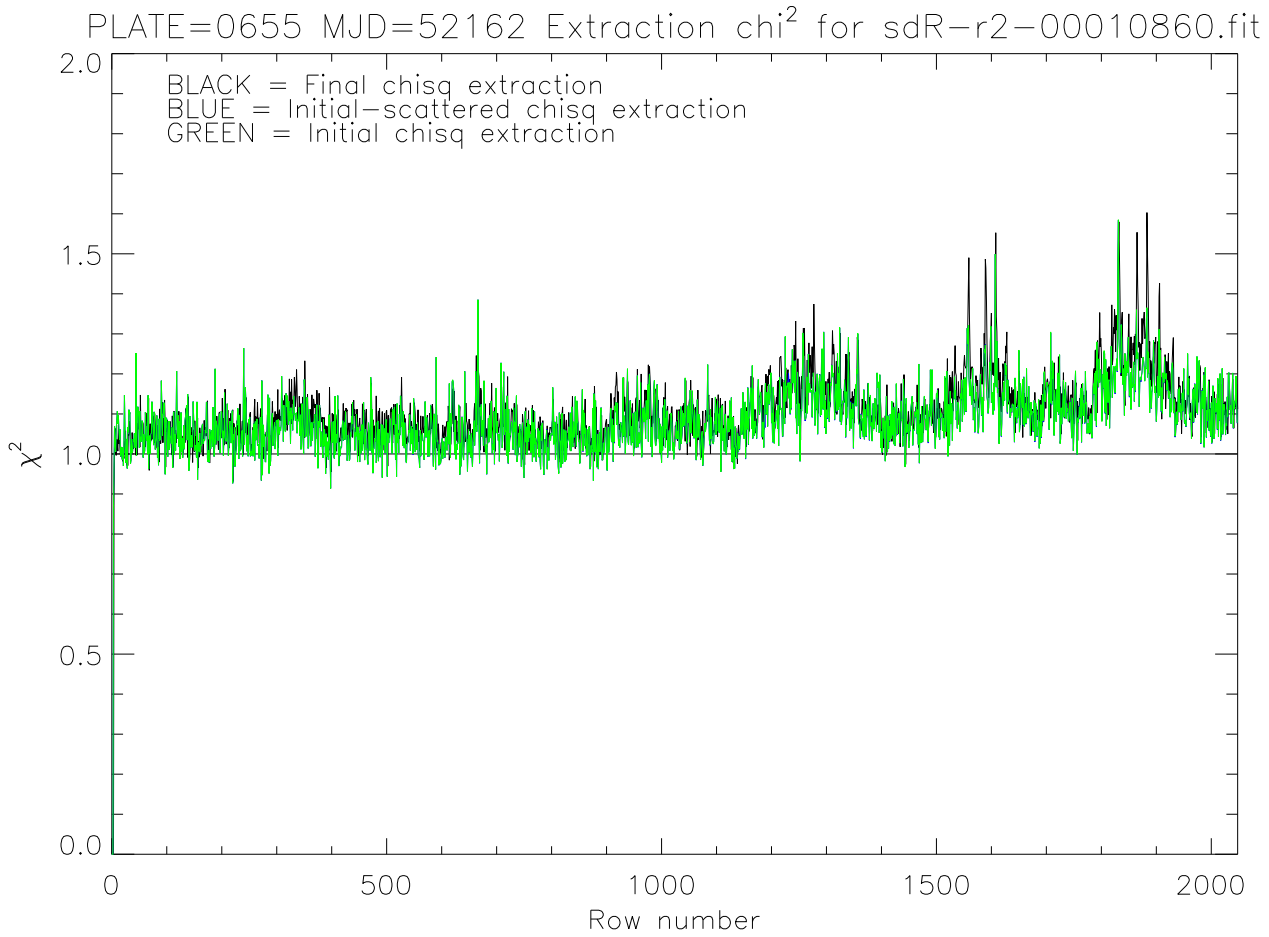

PLATE=0655 MJD=52162 Fiber−Flats for sdR−r2−00010854.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.547
Max value = 1.177
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Tue Feb 26 03:12:17 2008

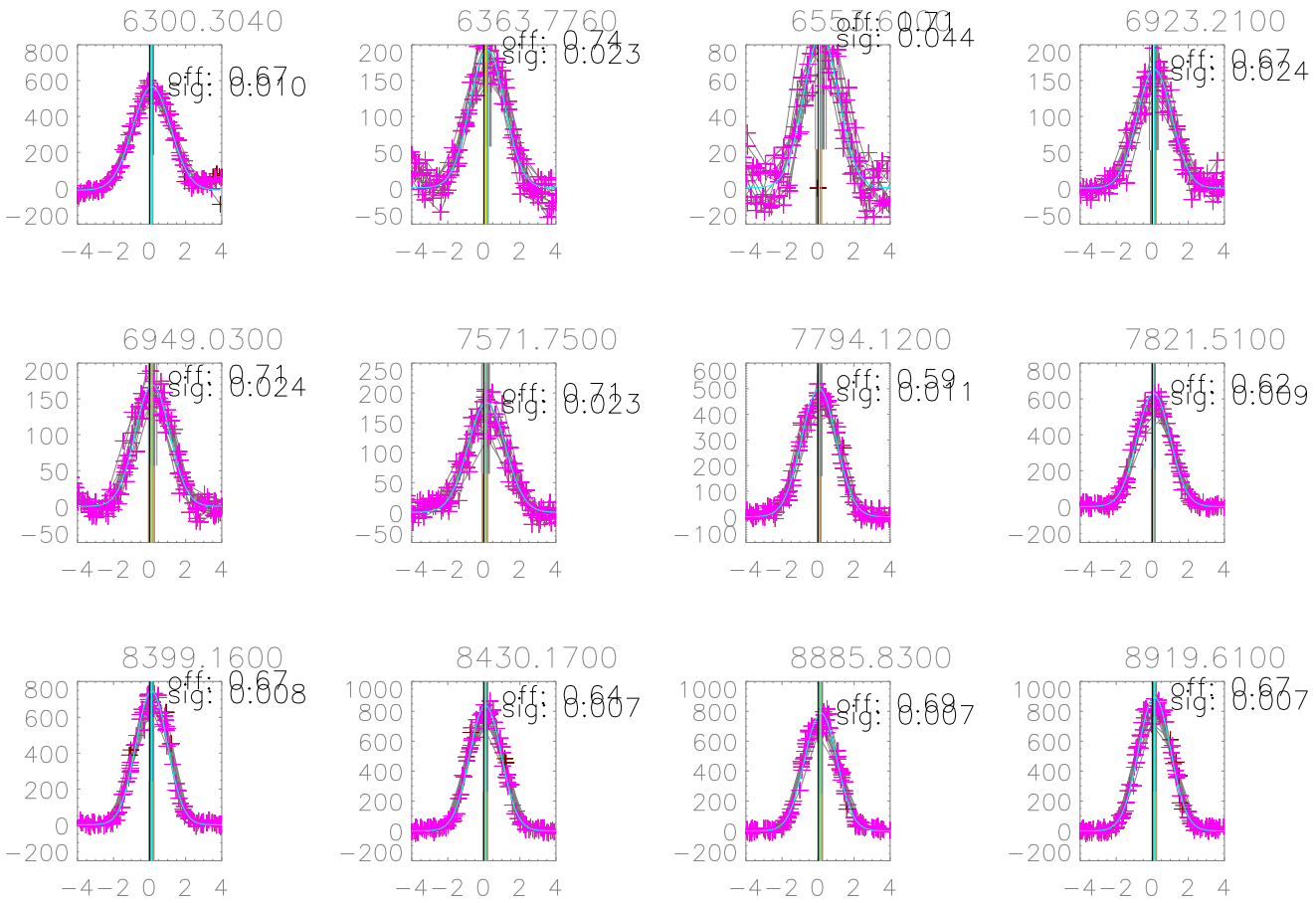

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-r2-00010860.fi
6.4
6.4
6.4
4.5
4.5
4.5
4.5
2.7
2.7
2.7
2.7
2.7
2.7
Y [pix]
X [pix]
0
500
1000
1500
2000

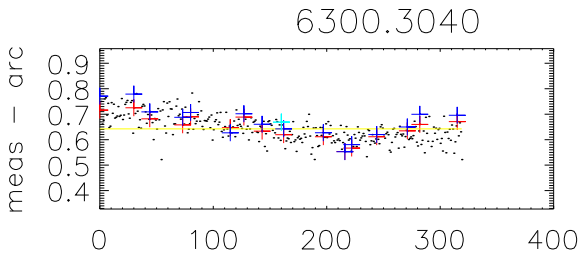

PLATE=0655 MJD=52162 Scattered Light before halo removal on sdR-r2-00010860.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 1.356
Max value = 7.805
Tue Feb 26 03:12:55 2008

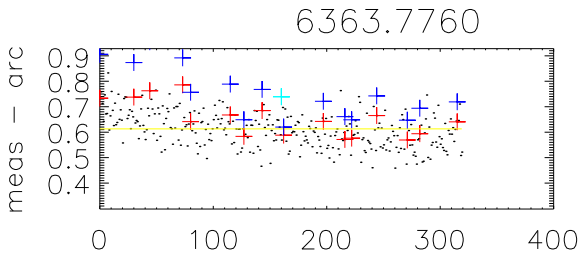

PLATE=0655 MJD=52162 Scattered Light on sdR-r2-00010860.fit
2.18
2.18
2.18
0
0
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

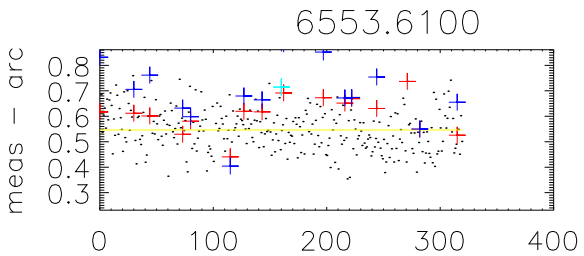

PLATE=0655 MJD=52162 Scattered Light on sdR-r2-00010860.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 1.194
Max value = 2.510
Tue Feb 26 03:15:40 2008

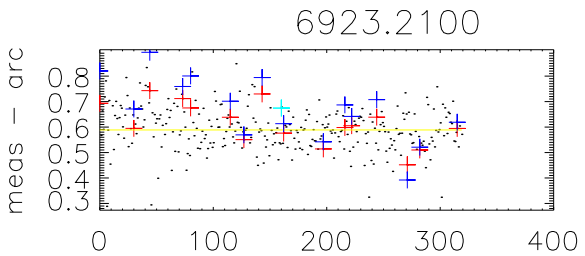

PLATE=0655 MJD=52162 Extraction chi^2 for sdR−r2−00010860.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

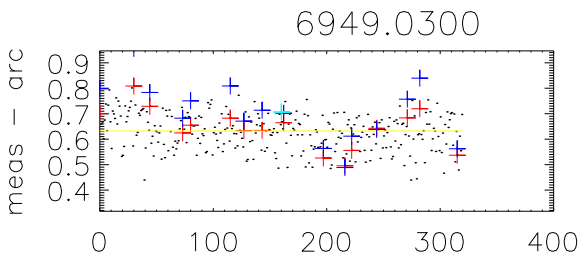

6300.3040
off: 0.67
sig: 0.010
6363.7760
off: 0.74
sig: 0.023
6557.6071
off: 0.71
sig: 0.044
6923.2100
off: 0.67
sig: 0.024
6949.0300
off: 0.71
sig: 0.024
7571.7500
off: 0.71
sig: 0.023
7794.1200
off: 0.59
sig: 0.011
7821.5100
off: 0.62
sig: 0.009
8399.1600
off: 0.67
sig: 0.008
8430.1700
off: 0.64
sig: 0.007
8885.8300
off: 0.68
sig: 0.007
8919.6100
off: 0.67
sig: 0.007

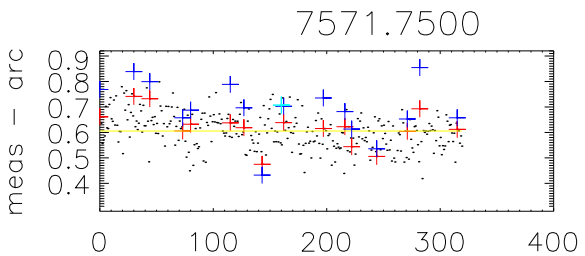

6300.3040
meas − arc
0.9
0.8
0.7
0.6
0.5
0.4
0
100
200
300
400

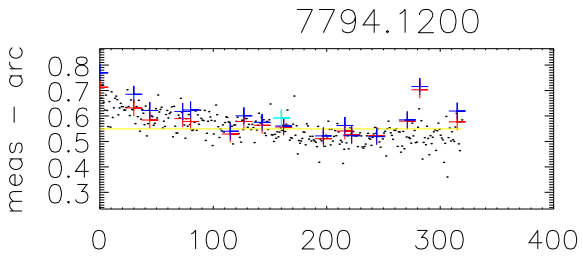

6363.7760
meas − arc
0.9
0.8
0.7
0.6
0.5
0.4
0
100
200
300
400

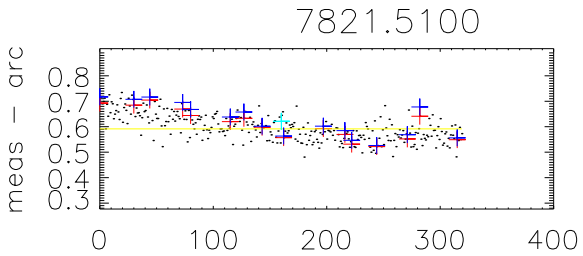

6553.6100
meas − arc
0.8
0.7
0.6
0.5
0.4
0.3
0
100
200
300
400

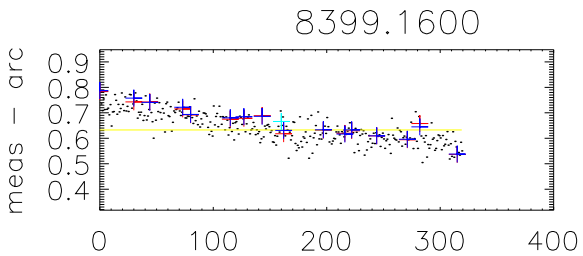

6923.2100
meas − arc
0.8
0.7
0.6
0.5
0.4
0.3
0
100
200
300
400

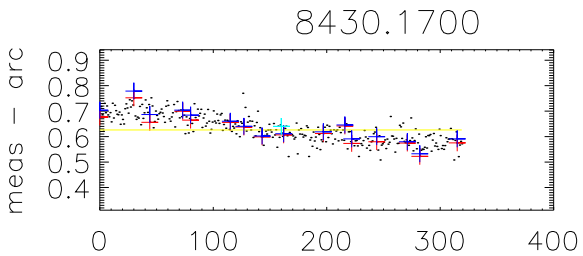

6949.0300
meas − arc
0.9
0.8
0.7
0.6
0.5
0.4
0
100
200
300
400

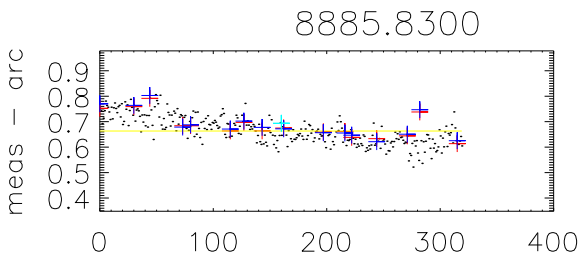

7571.7500
meas − arc
0.9
0.8
0.7
0.6
0.5
0.4
0
100
200
300
400

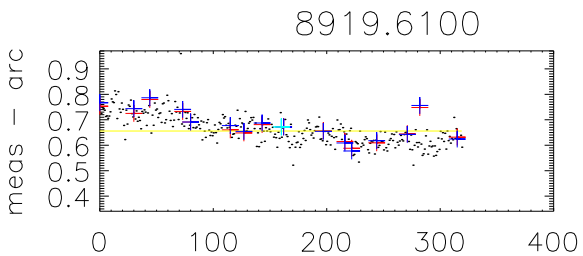

7794.1200
meas − arc
0.8
0.7
0.6
0.5
0.4
0.3
0
100
200
300
400

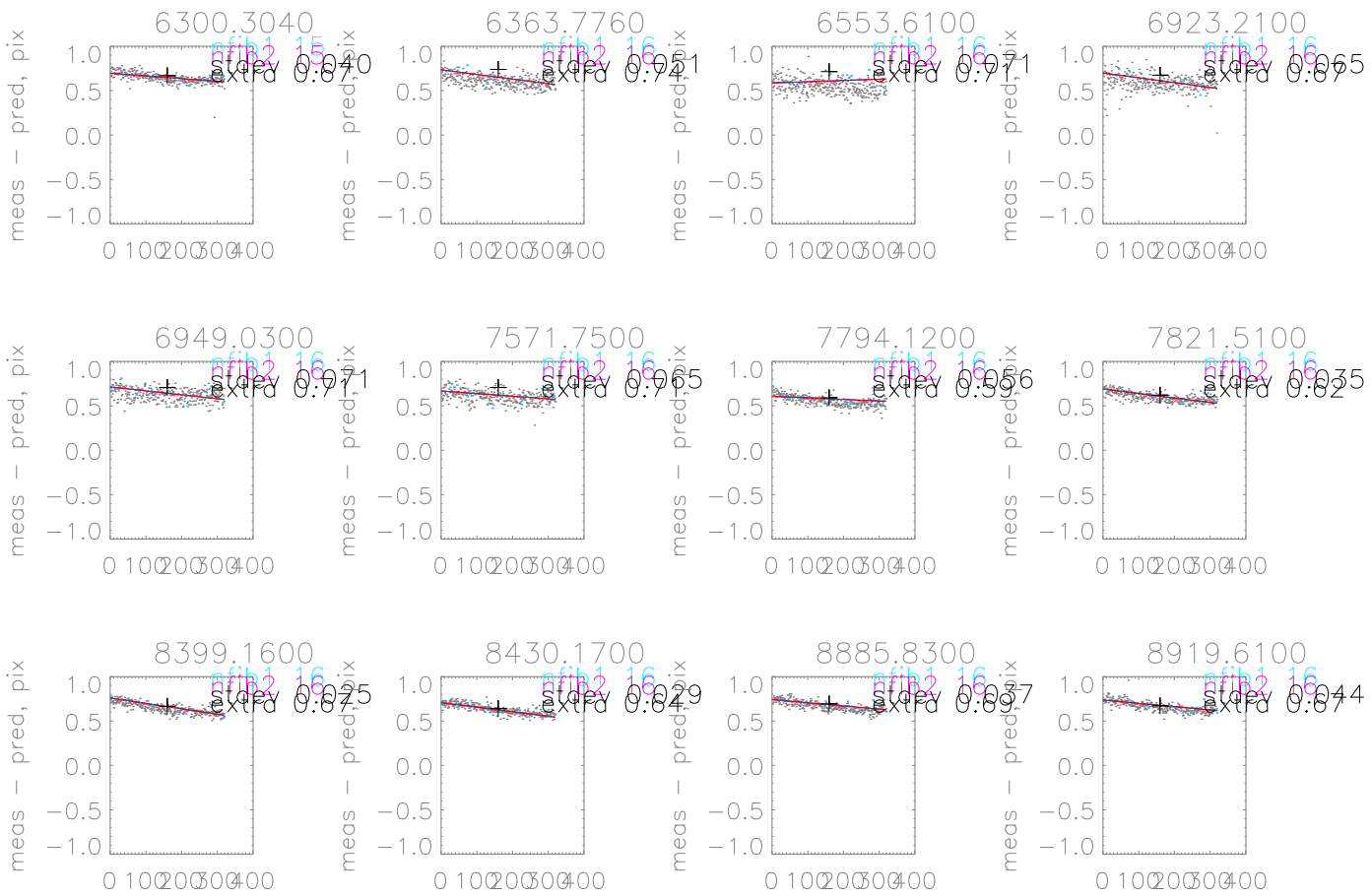

7821.5100
meas − arc
0.8
0.7
0.6
0.5
0.4
0.3
0
100
200
300
400

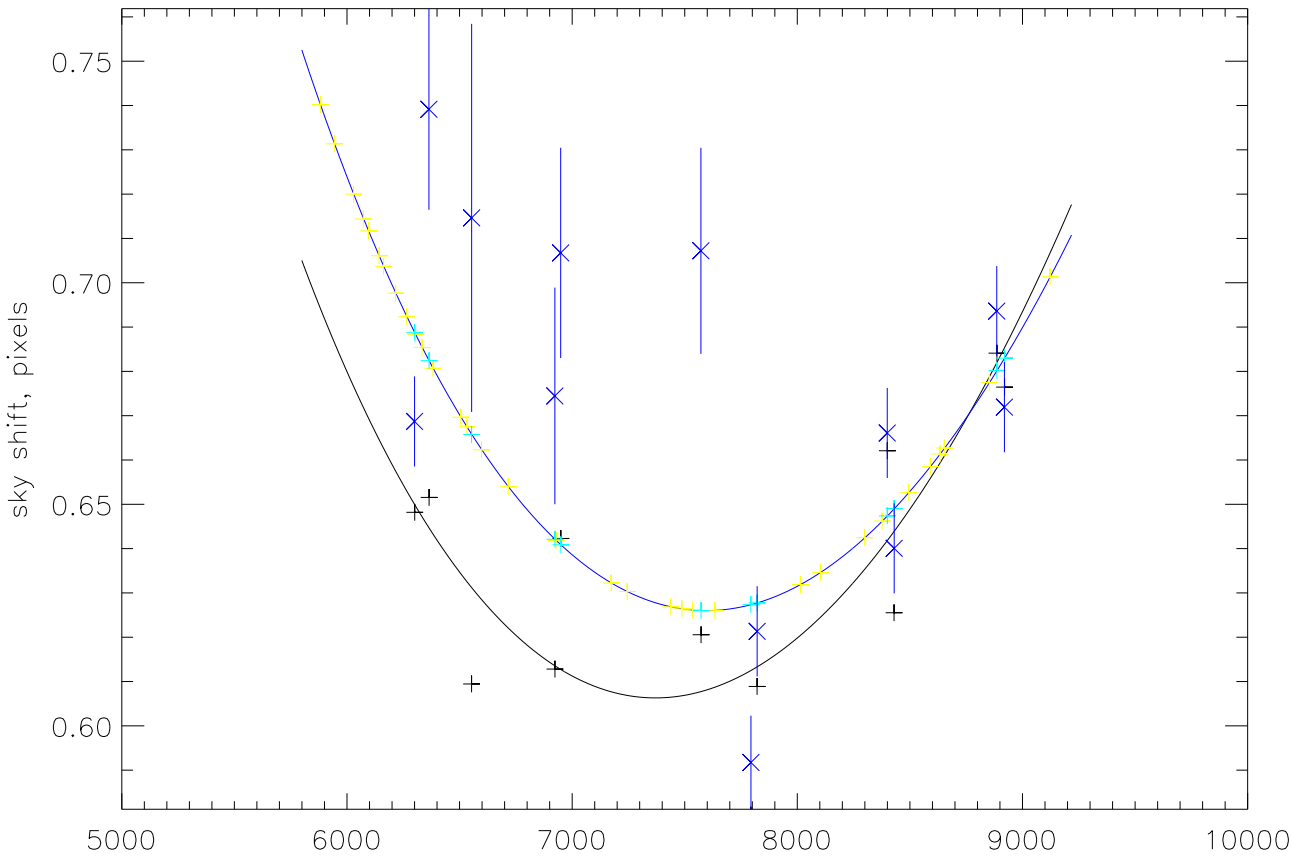

8399.1600
meas − arc
0.9
0.8
0.7
0.6
0.5
0.4
0
100
200
300
400

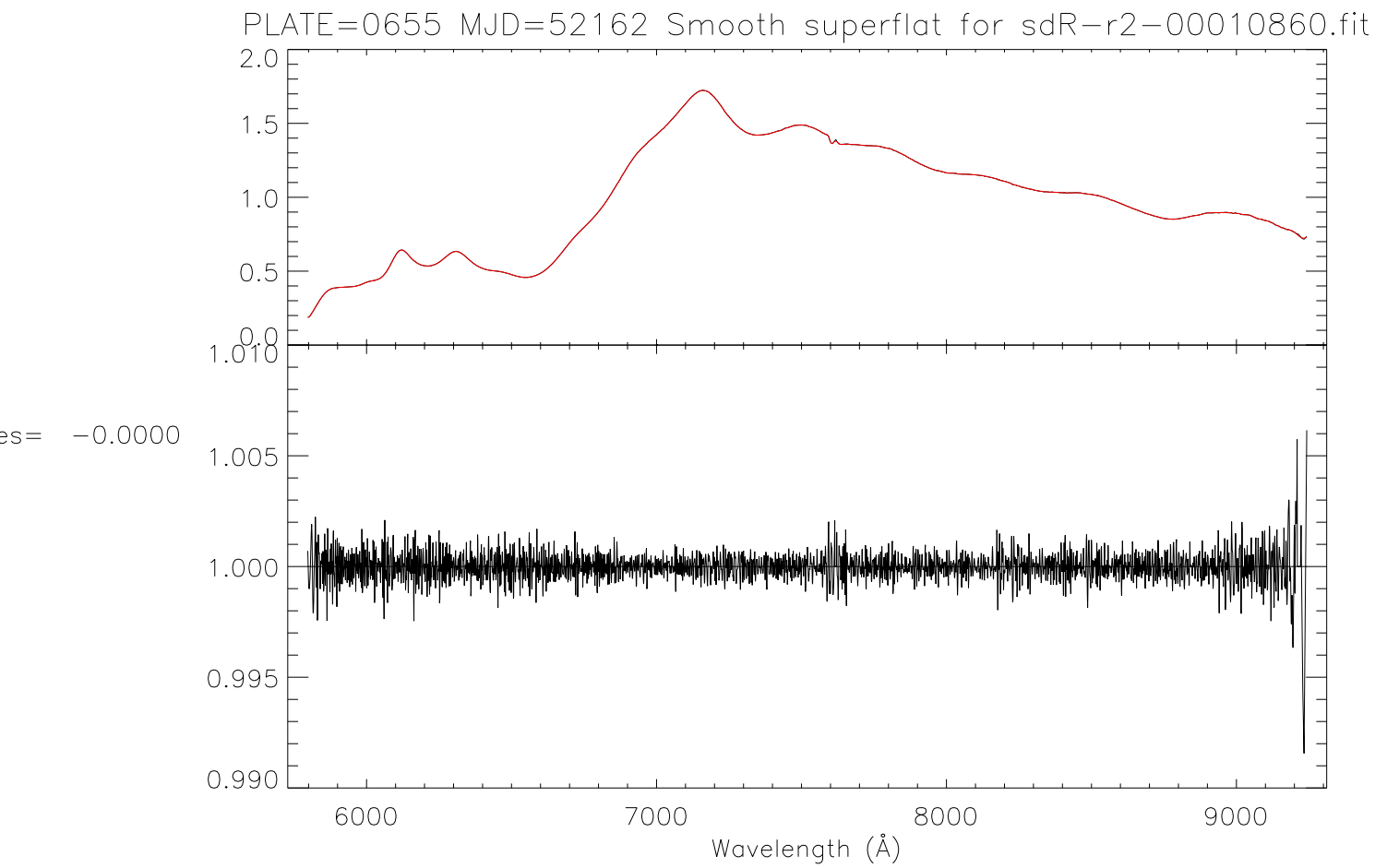

8430.1700
meas − arc
0.9
0.8
0.7
0.6
0.5
0.4
0
100
200
300
400

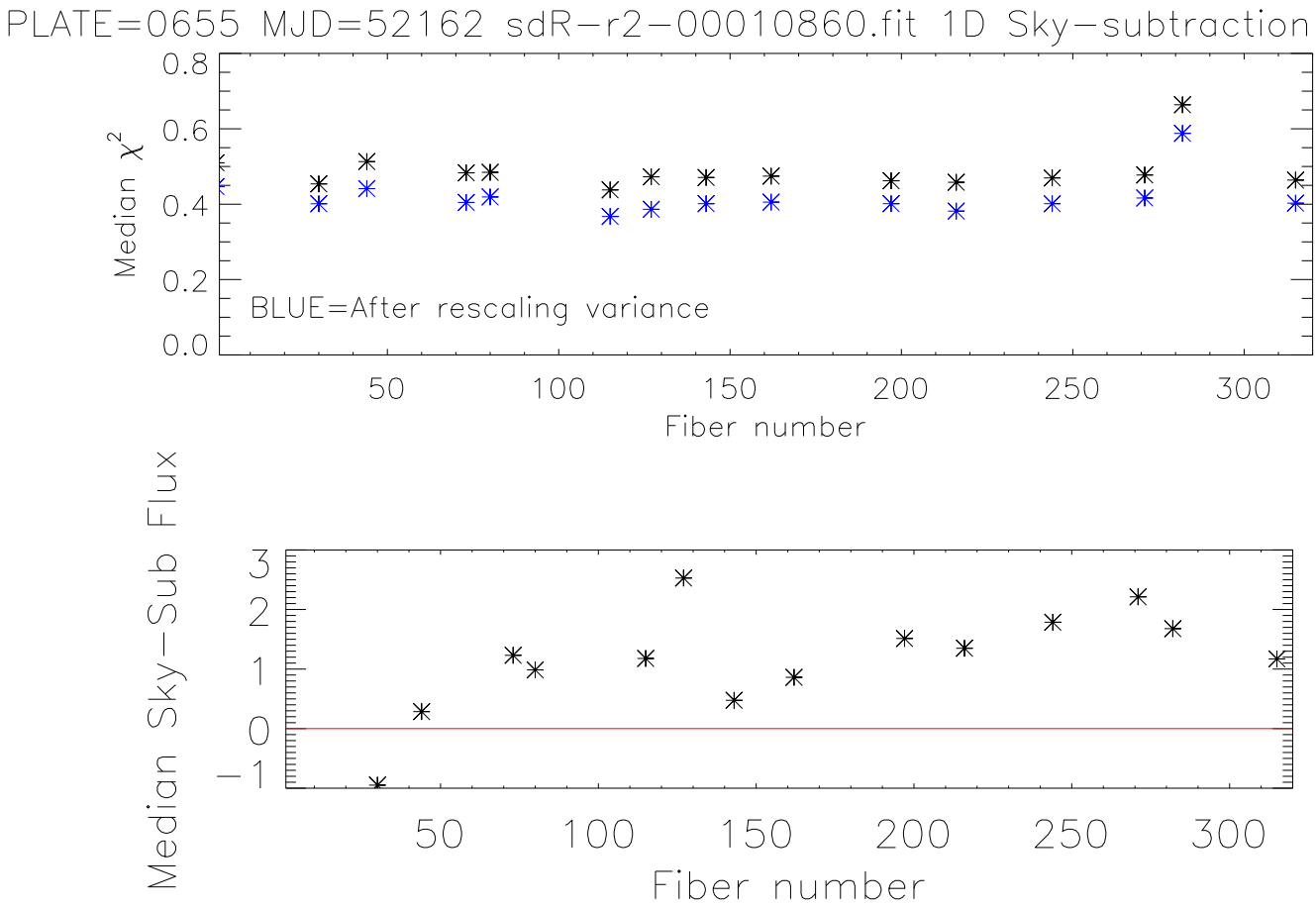

8885.8300
meas − arc
0.9
0.8
0.7
0.6
0.5
0.4
0
100
200
300
400


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

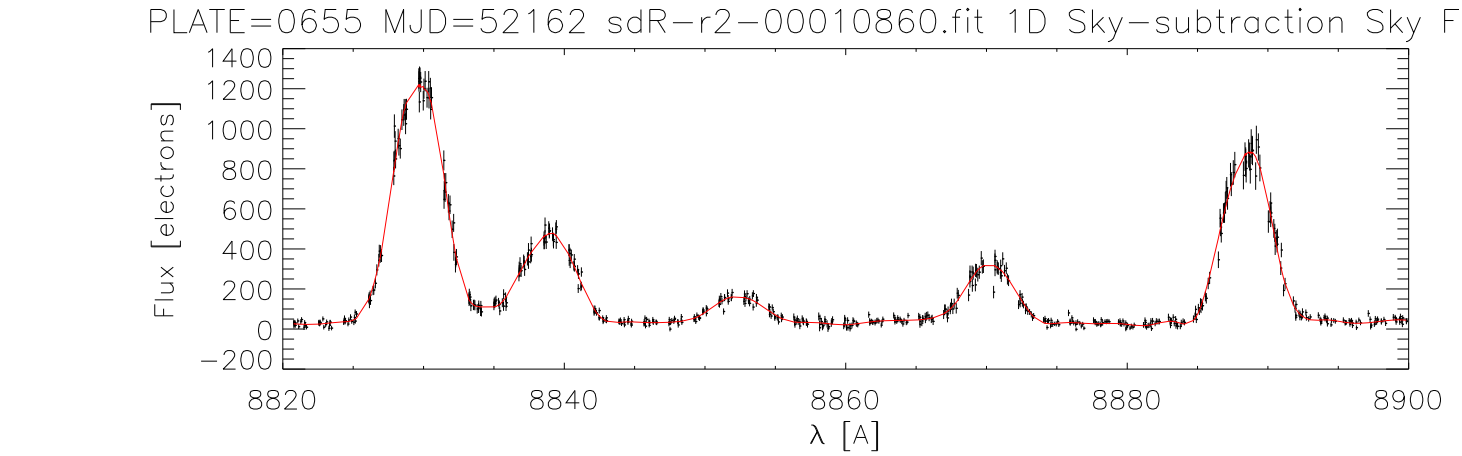

6300.3040
mfhi2 15
stdev 0.040
extra 0.87
6363.7760
mfhi2 16
stdev 0.051
extra 0.74
6553.6100
mfhi2 16
stdev 0.071
extra 0.71
6923.2100
mfhi2 16
stdev 0.065
extra 0.87
6949.0300
mfhi2 16
stdev 0.071
extra 0.71
7571.7500
mfhi2 16
stdev 0.065
extra 0.70
7794.1200
mfhi2 16
stdev 0.056
extra 0.59
7821.5100
mfhi2 16
stdev 0.035
extra 0.82
8399.1600
mfhi2 16
stdev 0.025
extra 0.87
8430.1700
mfhi2 16
stdev 0.029
extra 0.84
8885.8300
mfhi2 16
stdev 0.037
extra 0.89
8919.6100
mfhi2 16
stdev 0.044
extra 0.87
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

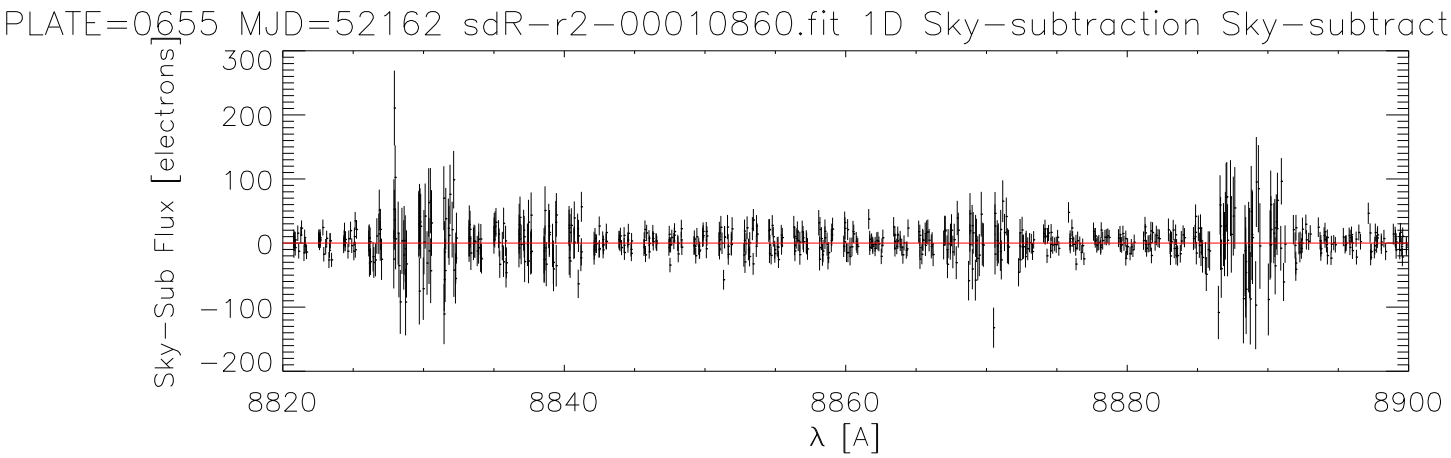

0.75
0.70
0.65
0.60
sky shift, pixels
5000
6000
7000
8000
9000
10000

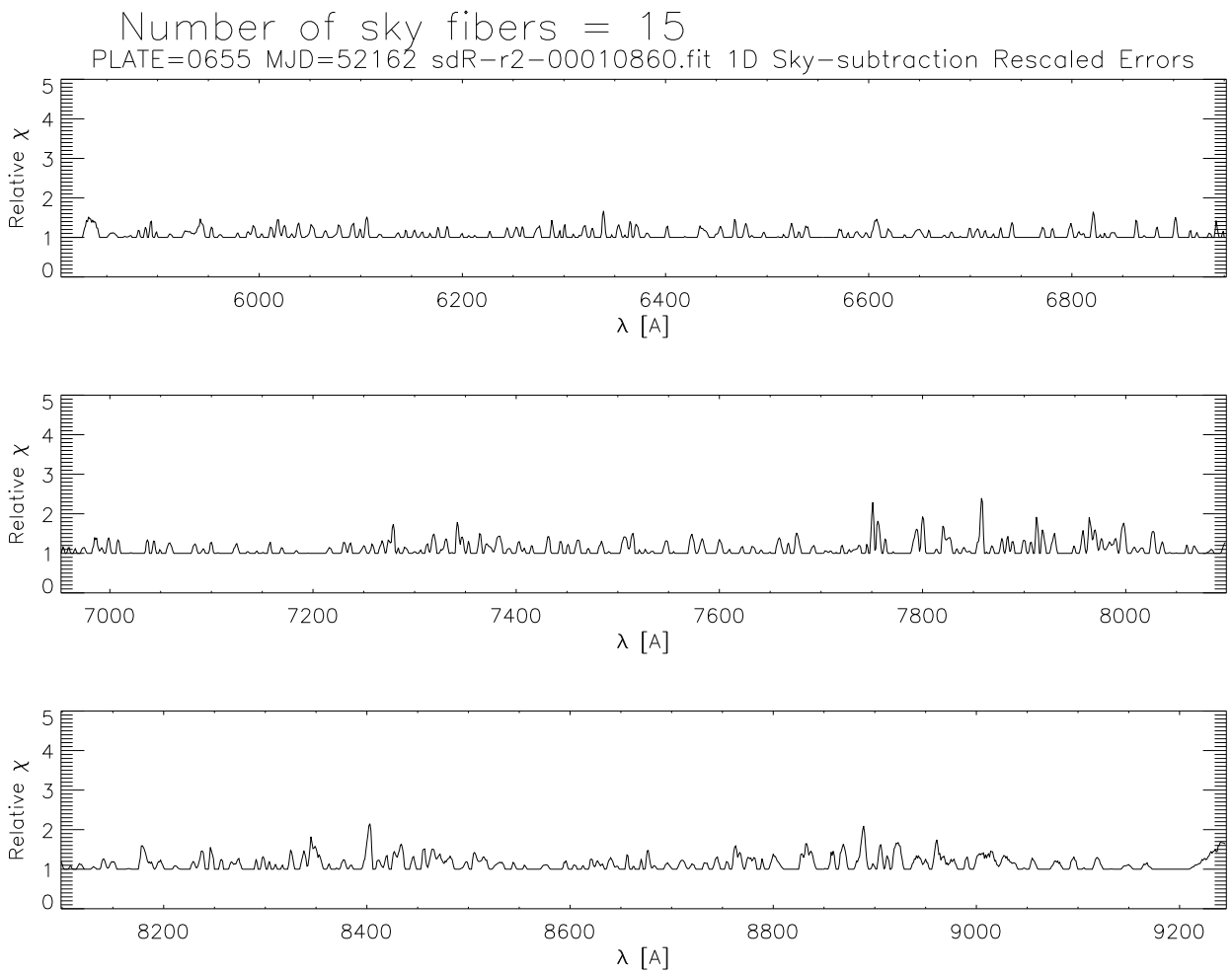

PLATE=0655 MJD=52162 Smooth superflat for sdR-r2-00010860.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

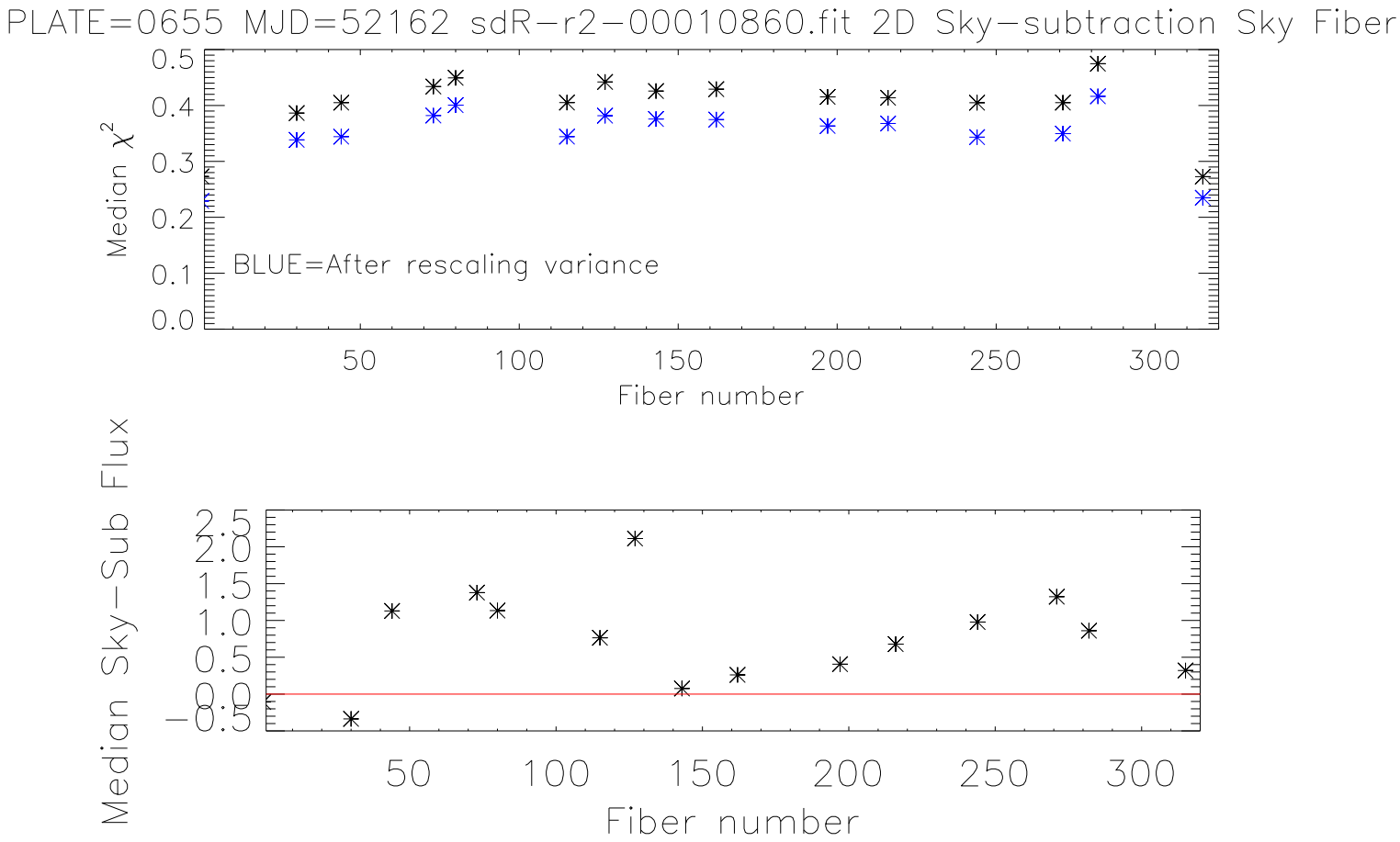

PLATE=0655 MJD=52162 sdR-r2-00010860.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

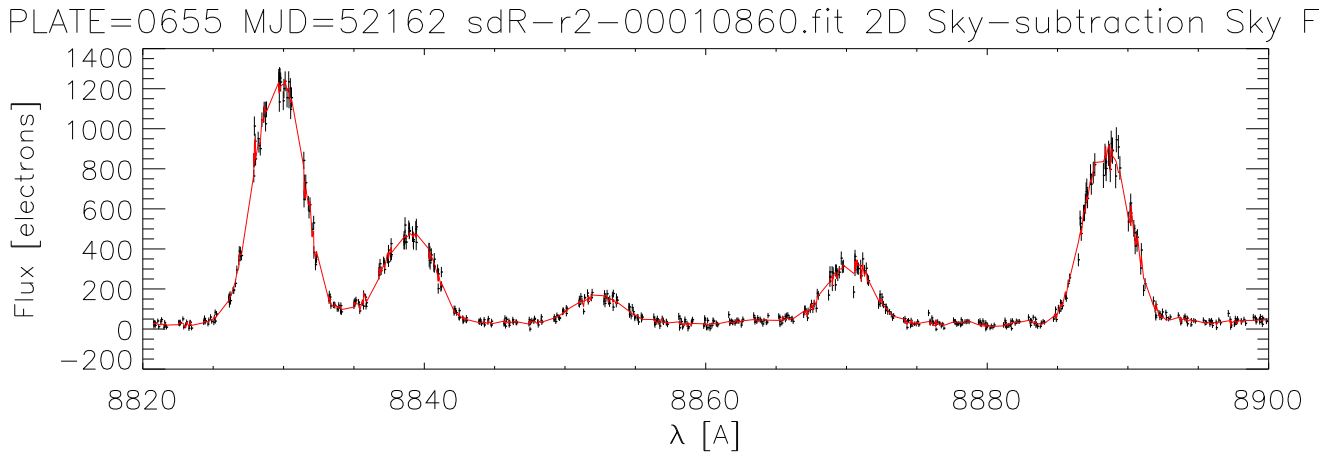
Median Sky-Sub Flux
−1
0
1
2
3
50
100
150
200
250
300
Fiber number

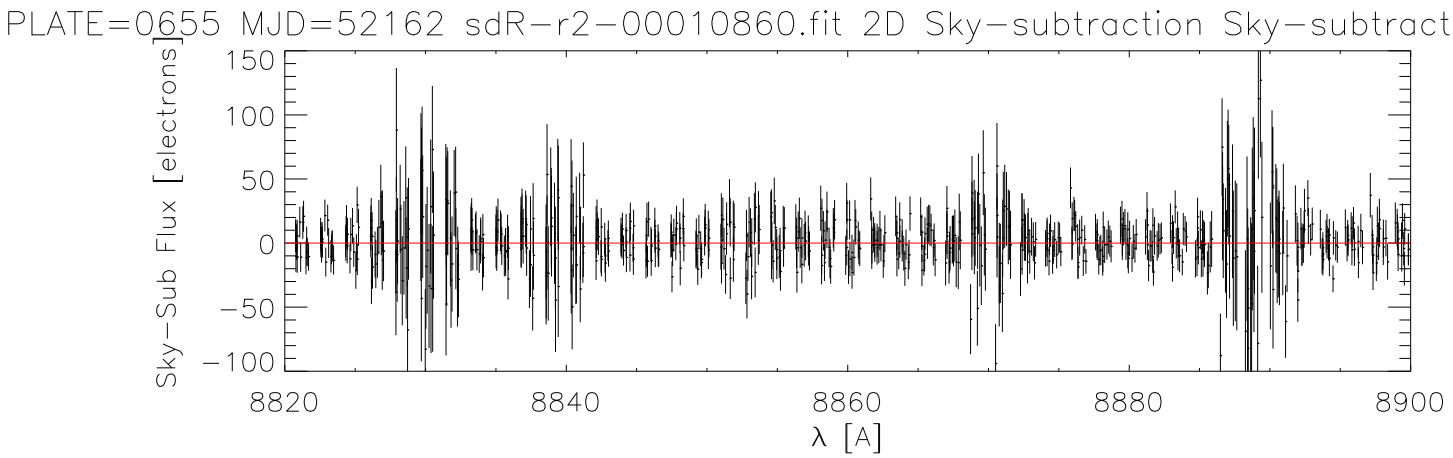

PLATE=0655 MJD=52162 sdR-r2-00010860.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1400
1200
1000
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

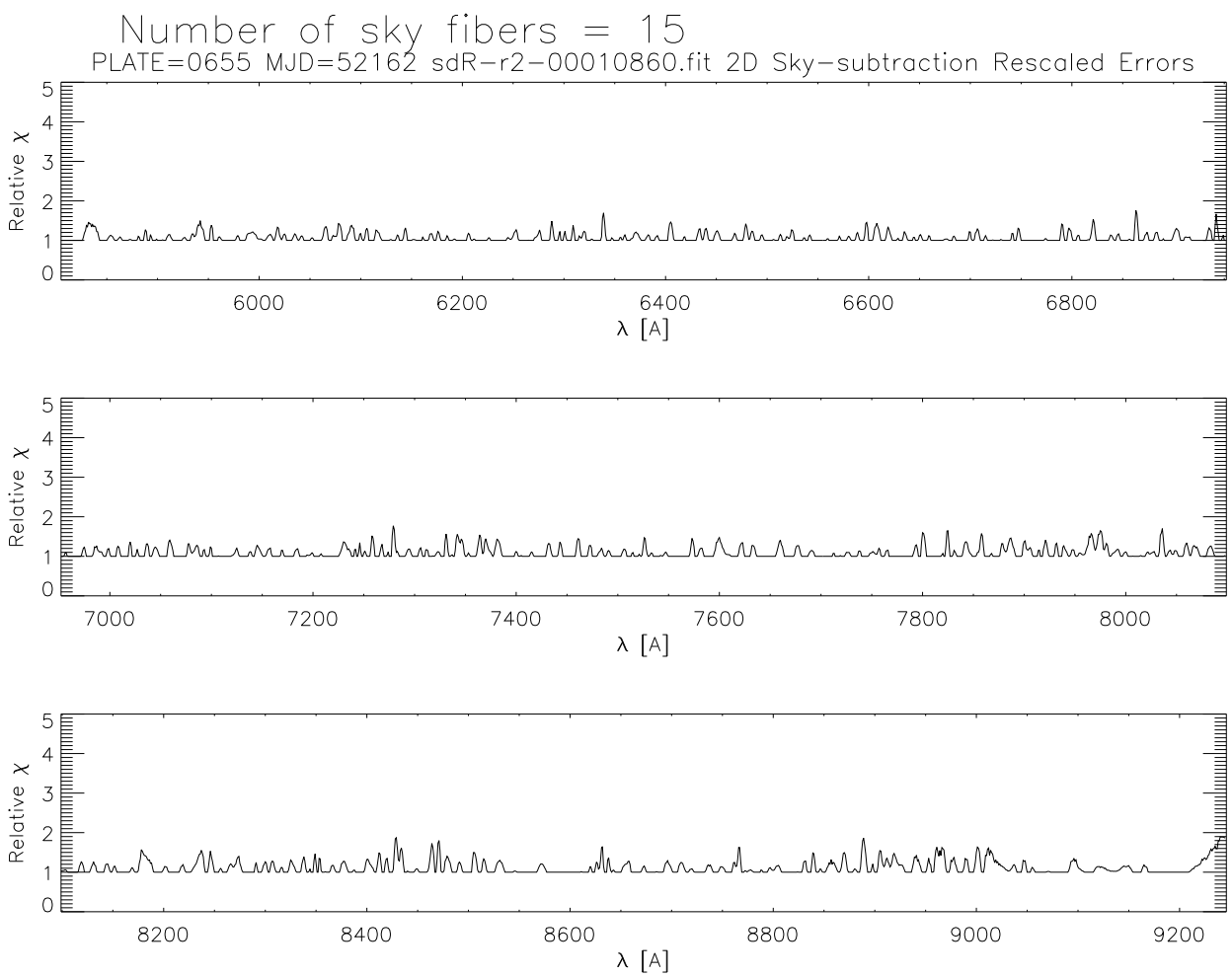

PLATE=0655 MJD=52162 sdR-r2-00010860.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

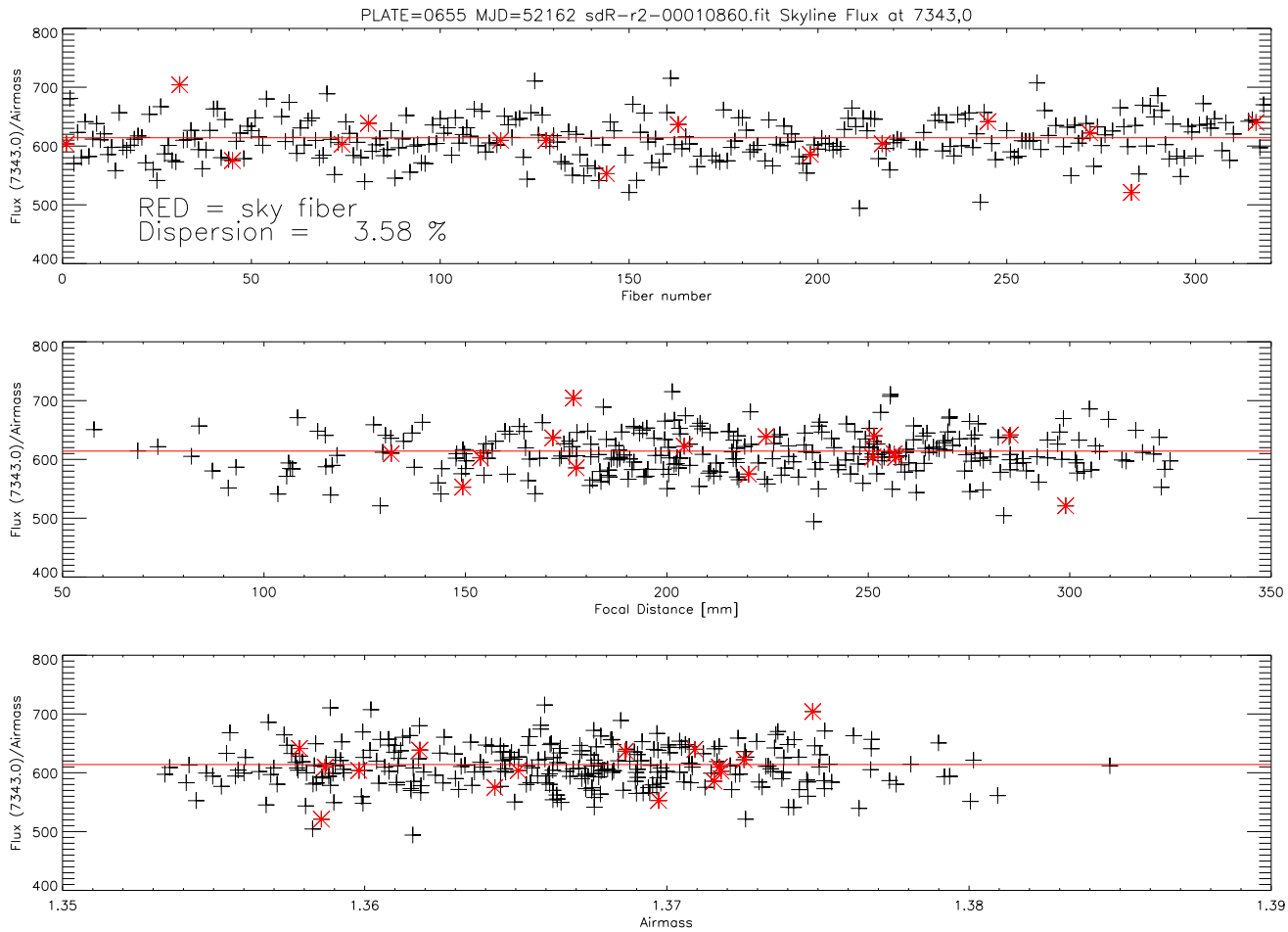

Number of sky fibers = 15
PLATE=0655 MJD=52162 sdR-r2-00010860.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

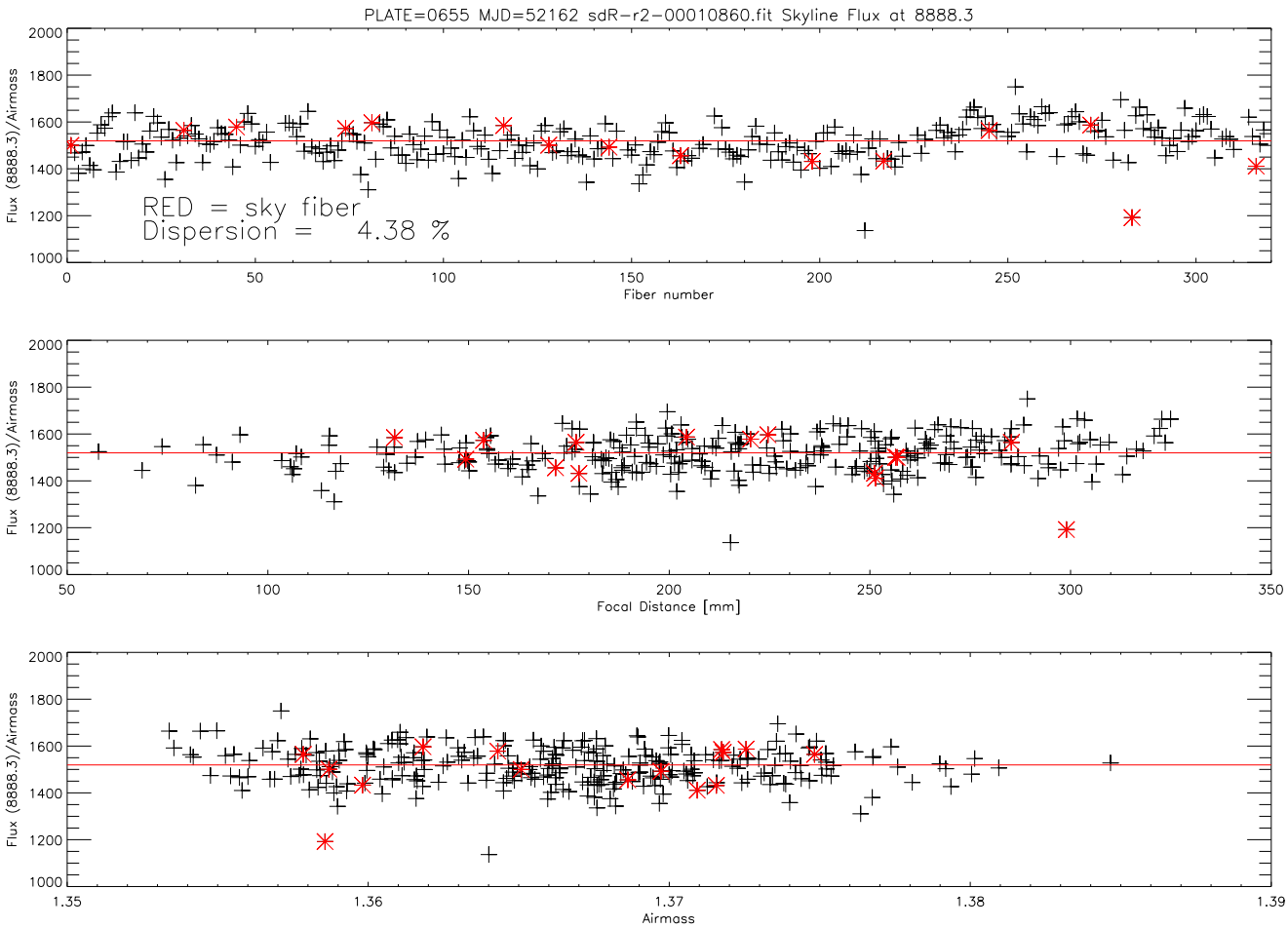

PLATE=0655 MJD=52162 sdR-r2-00010860.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number


PLATE=0655 MJD=52162 sdR-r2-00010860.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1400
1200
1000
800
600
400
200
0
−200
8820
8840
8860
8880
8900
λ [A]


PLATE=0655 MJD=52162 sdR-r2-00010860.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
−50
−100
8820
8840
8860
8880
8900
λ [A]


Number of sky fibers = 15
PLATE=0655 MJD=52162 sdR-r2-00010860.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=0655 MJD=52162 sdR-r2-00010860.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.58 %
Fiber number
Focal Distance [mm]
Airmass


PLATE=0655 MJD=52162 sdR-r2-00010860.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 4.38 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass