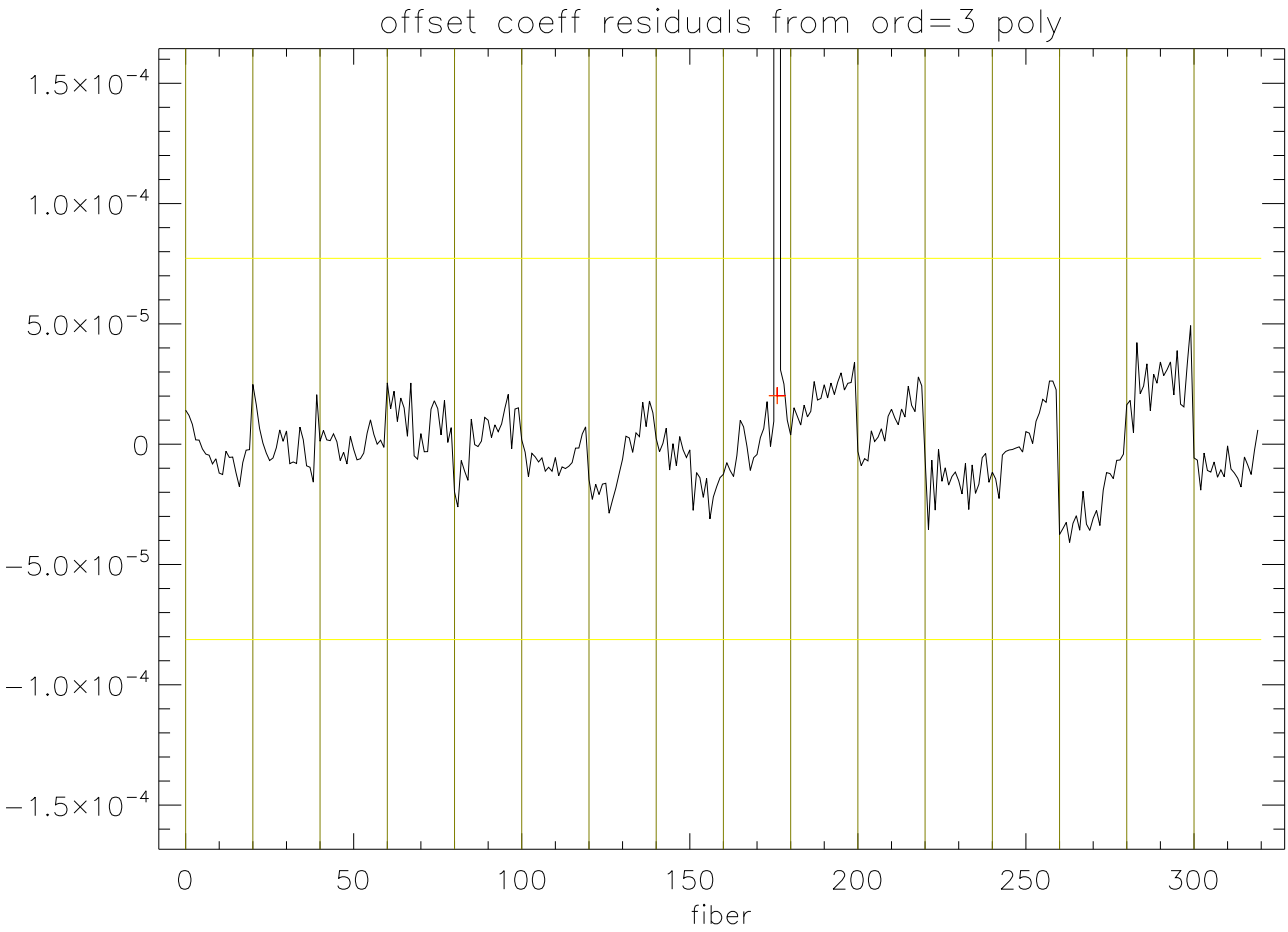
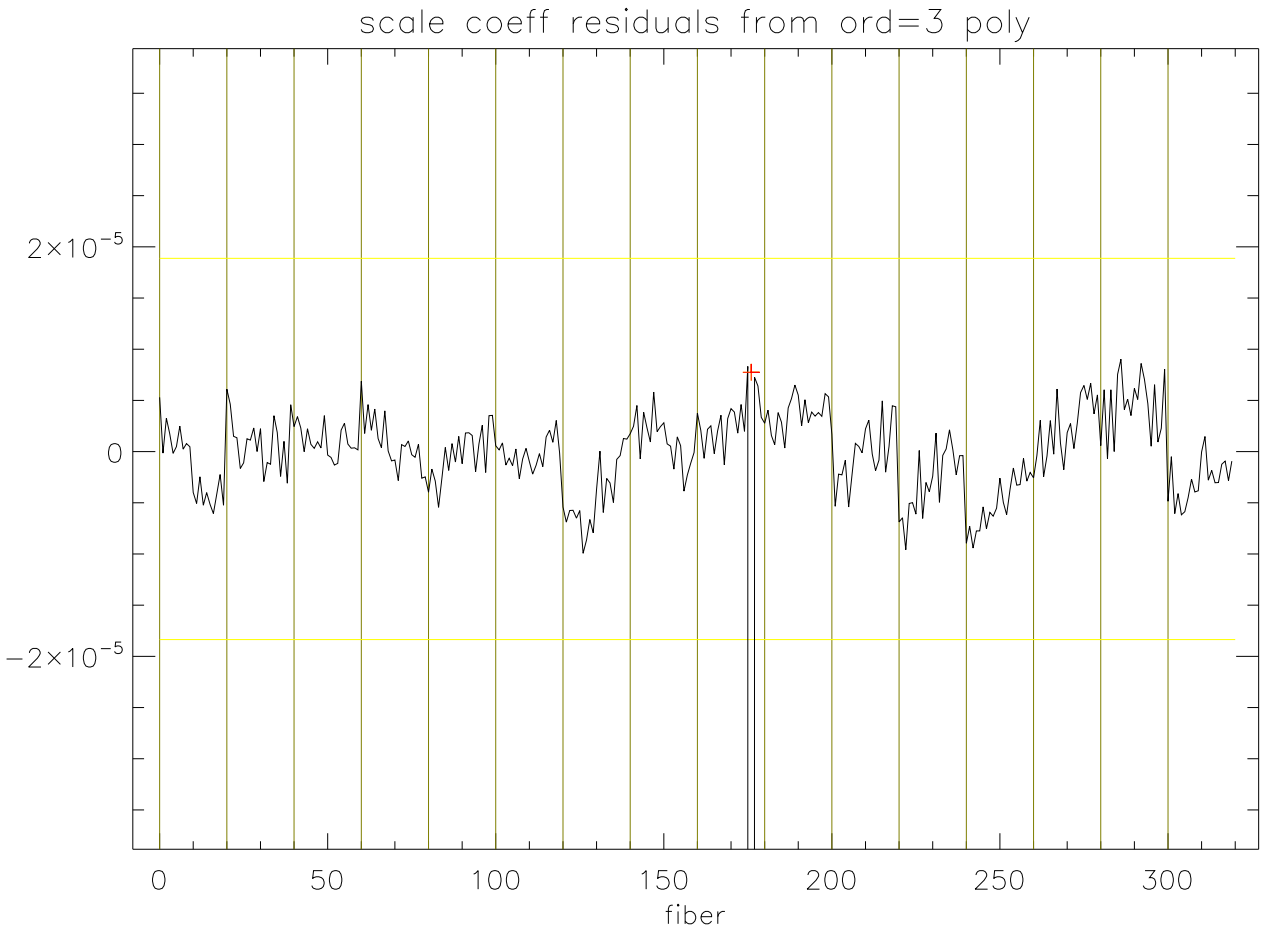
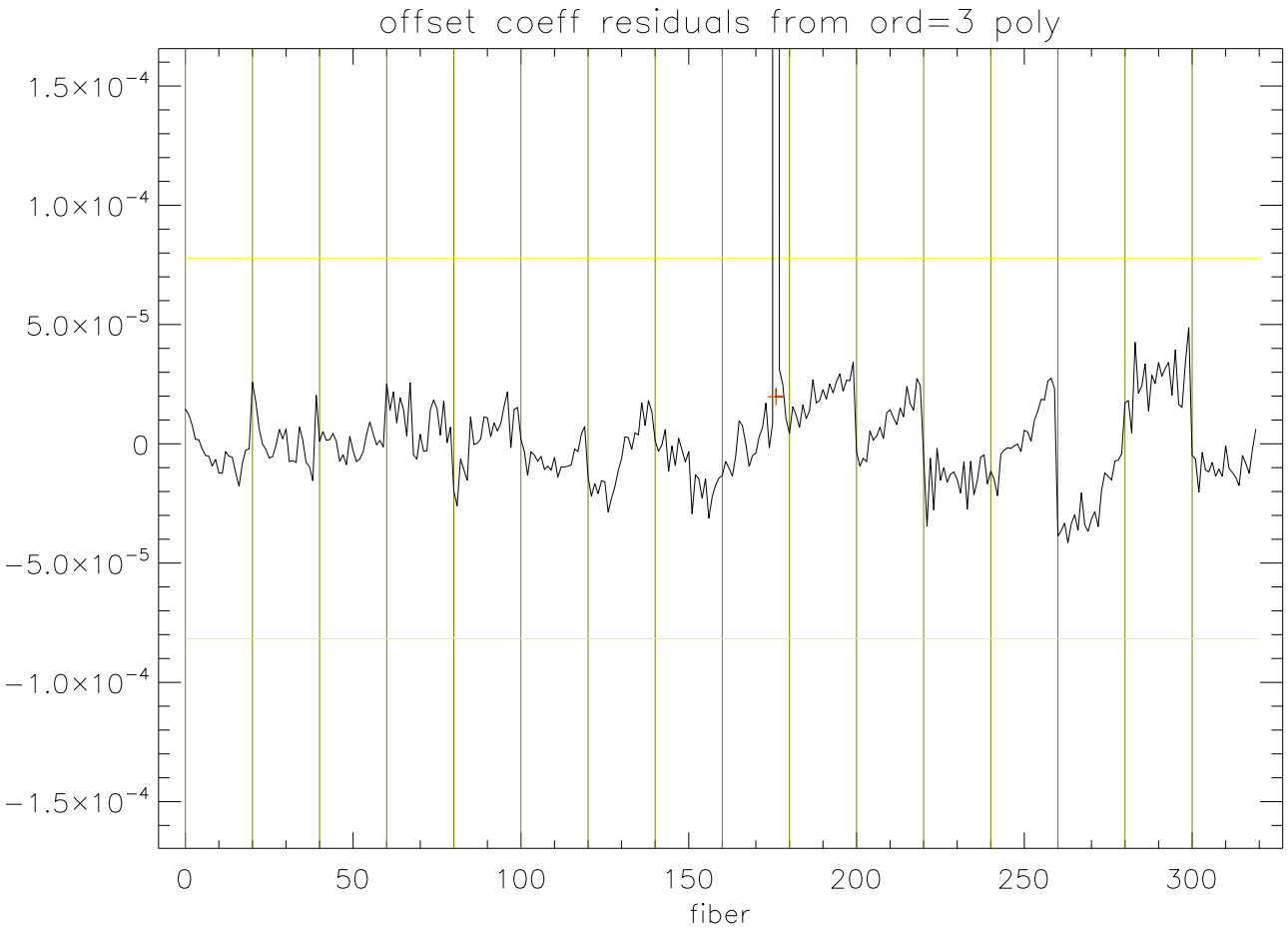
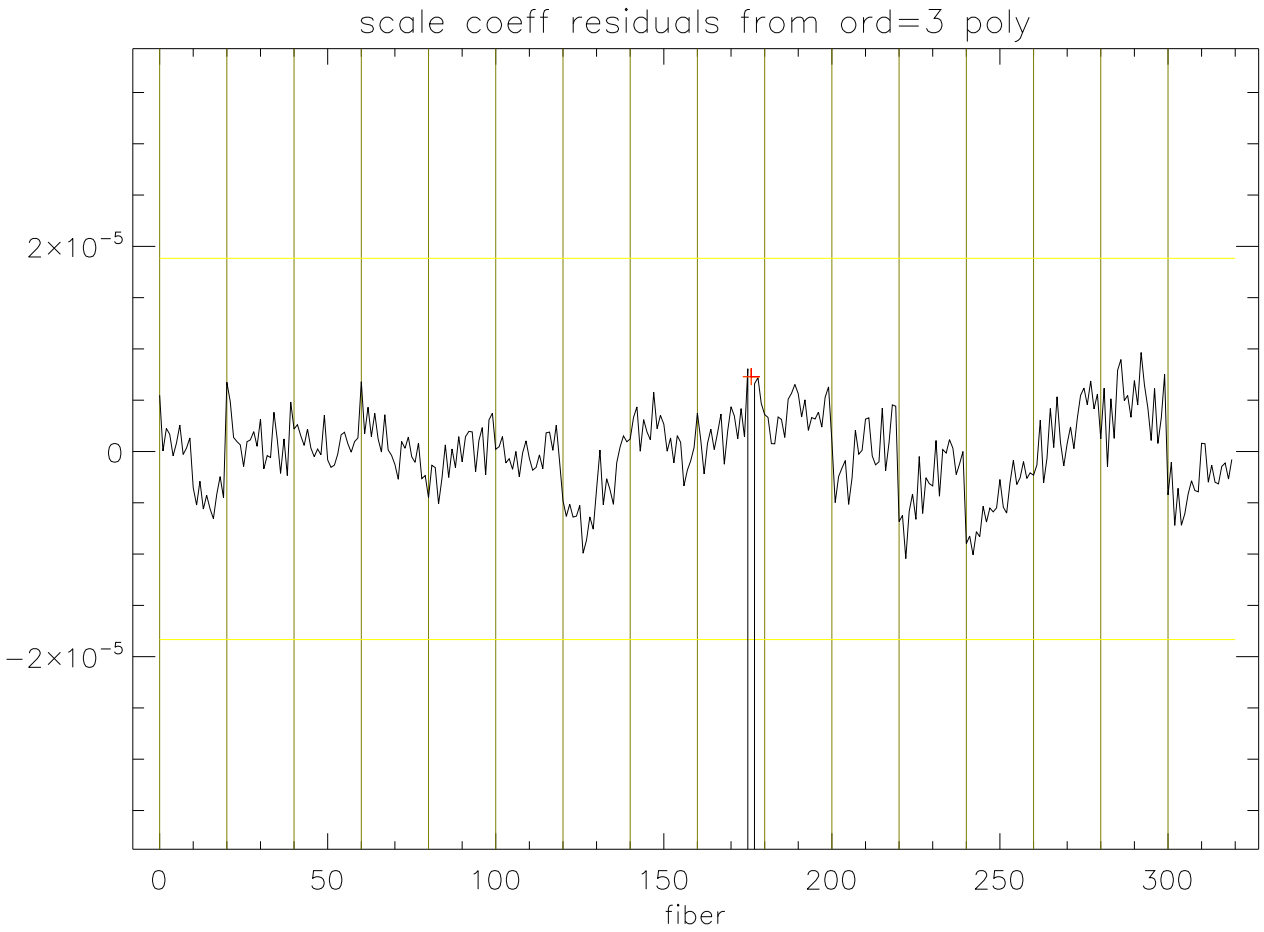
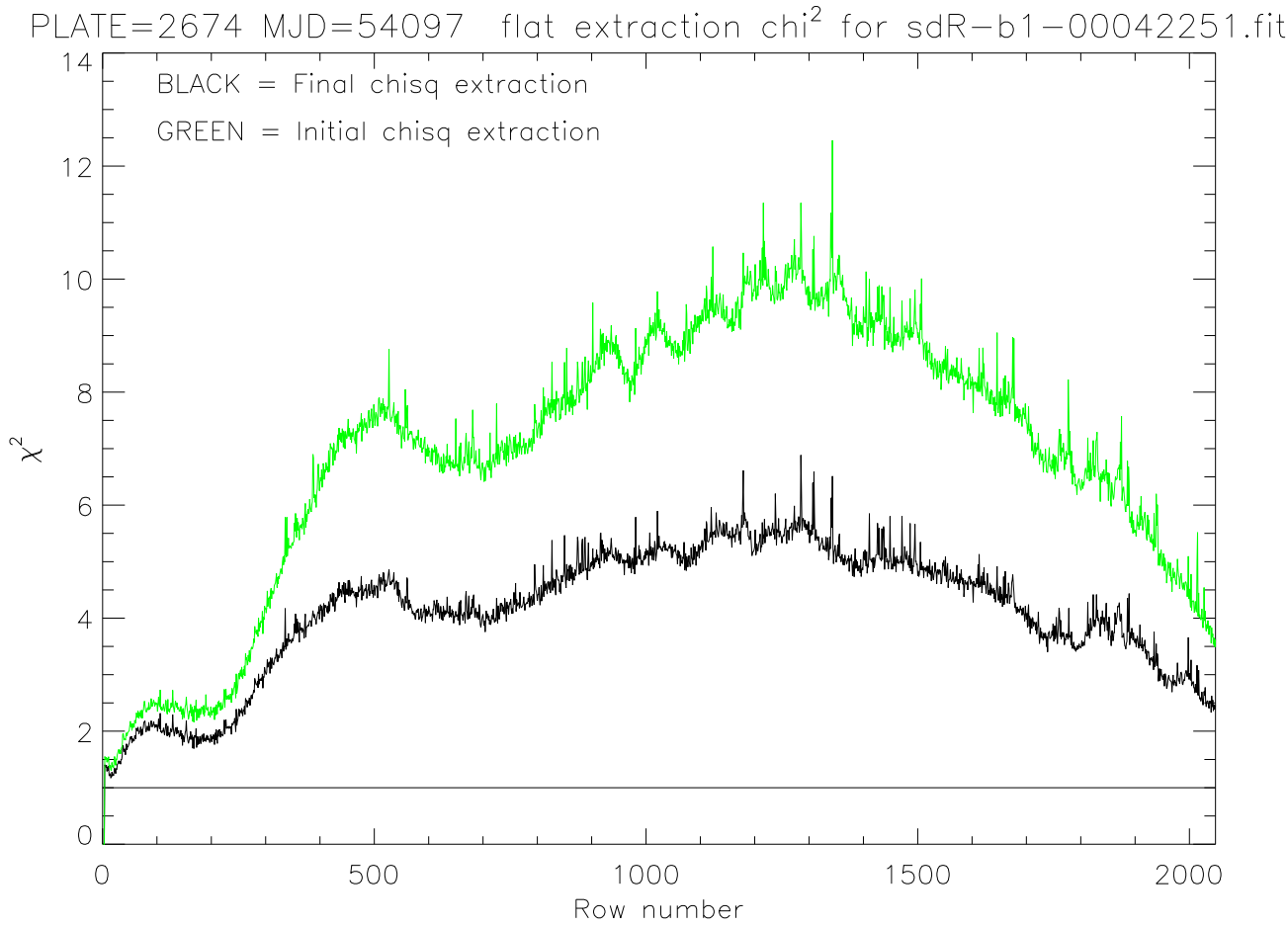
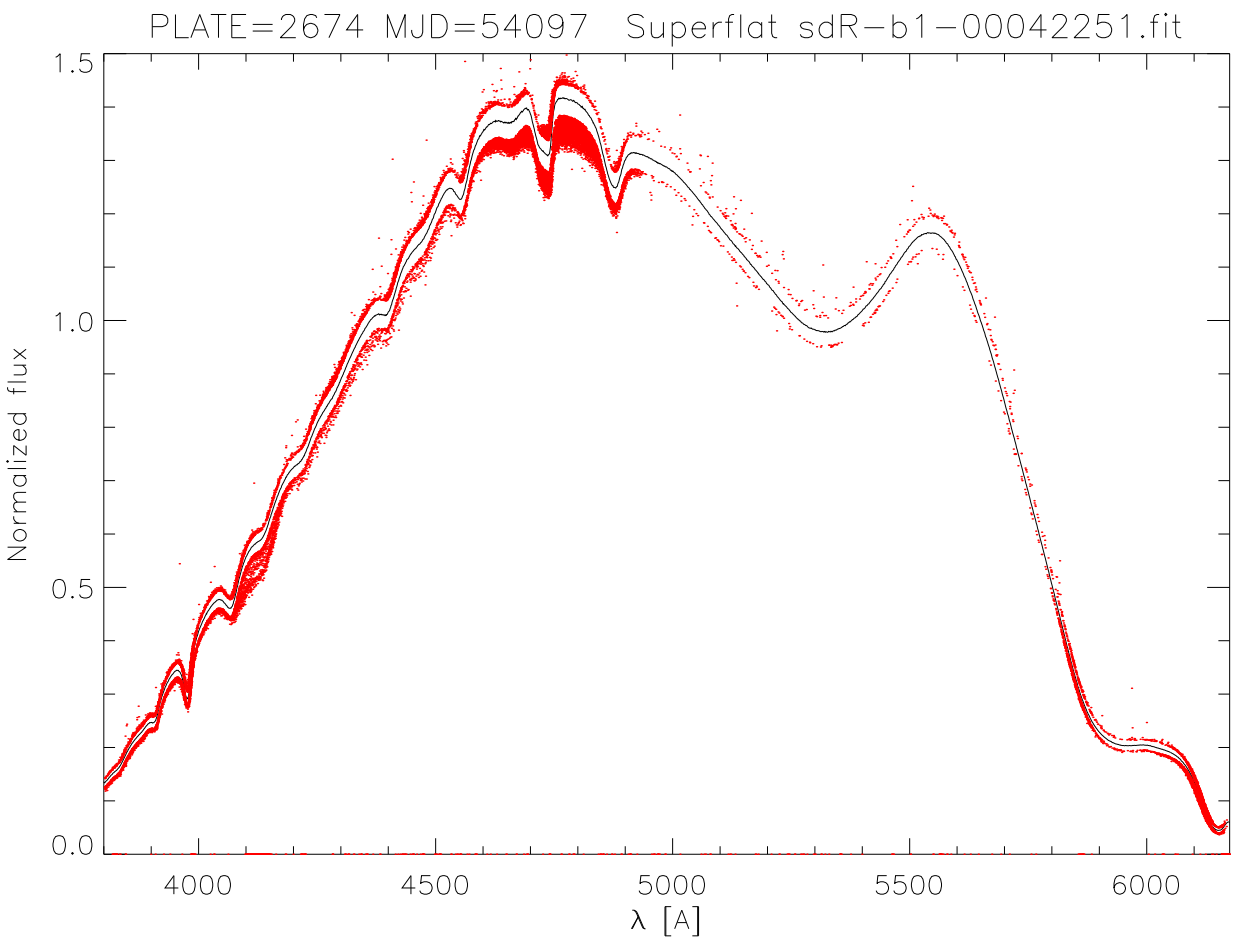

offset coeff residuals from ord=3 poly
1.5×10^-4
1.0×10^-4
5.0×10^-5
0
−5.0×10^-5
−1.0×10^-4
−1.5×10^-4
0
50
100
150
200
250
300
fiber

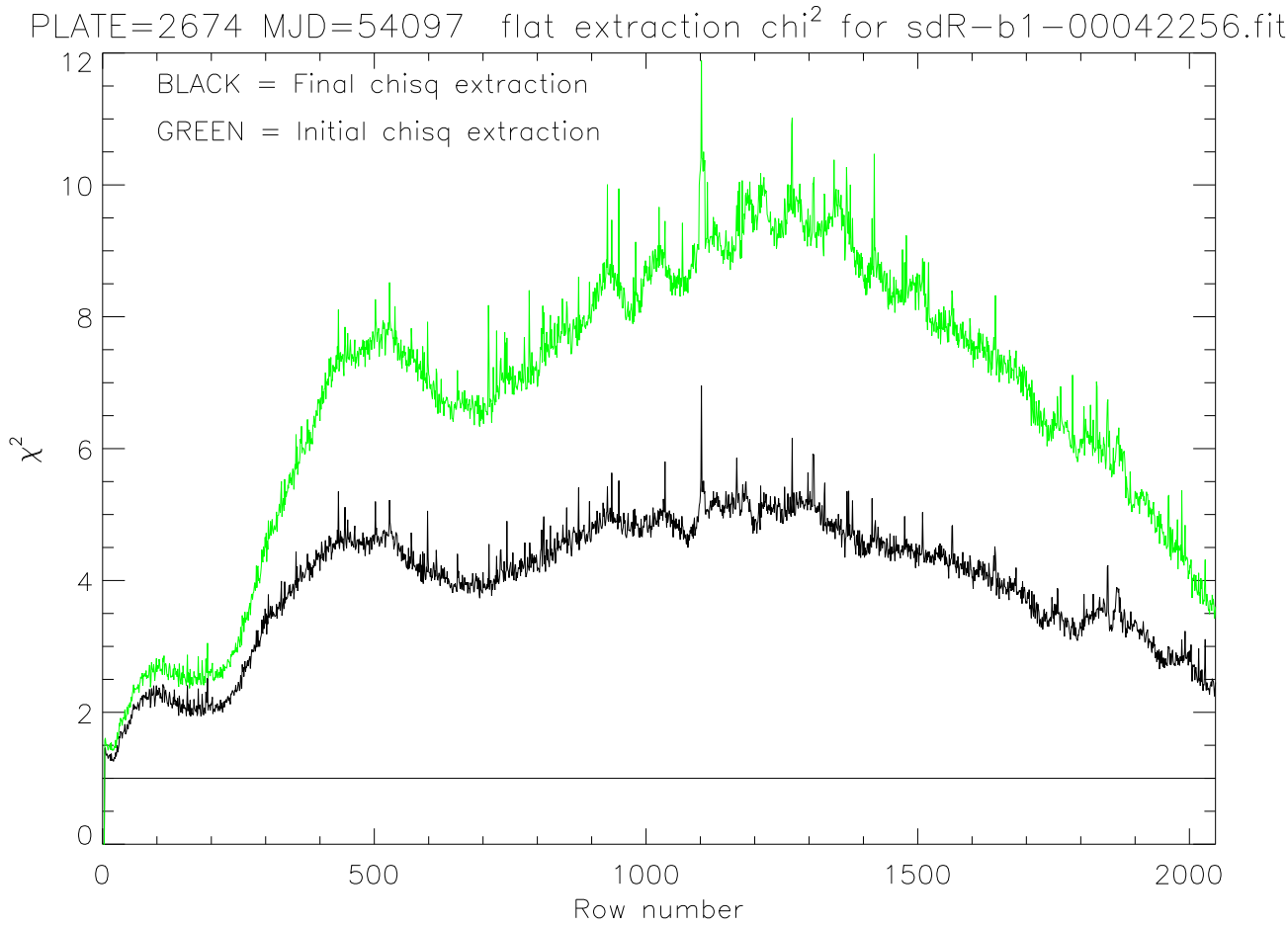

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

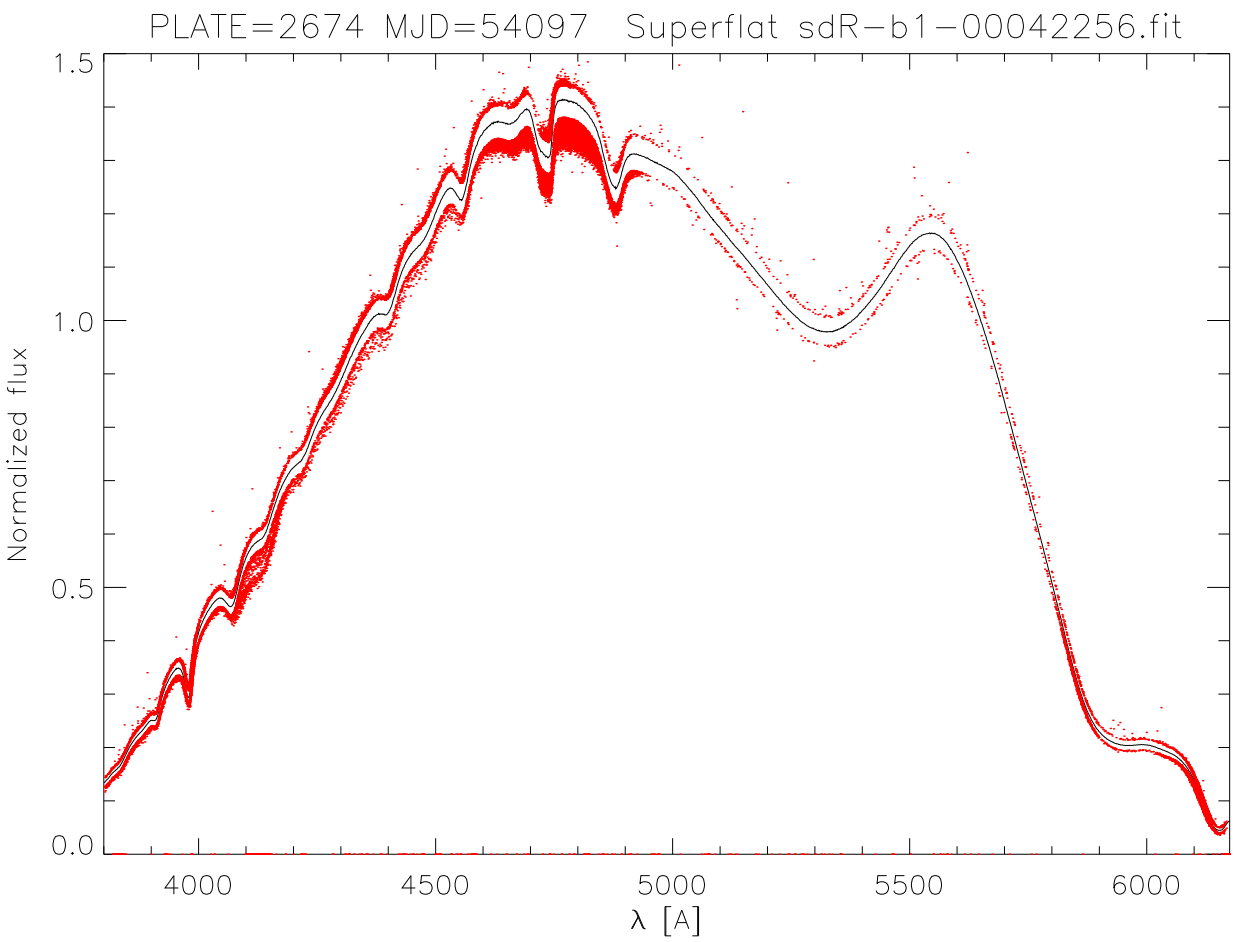

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

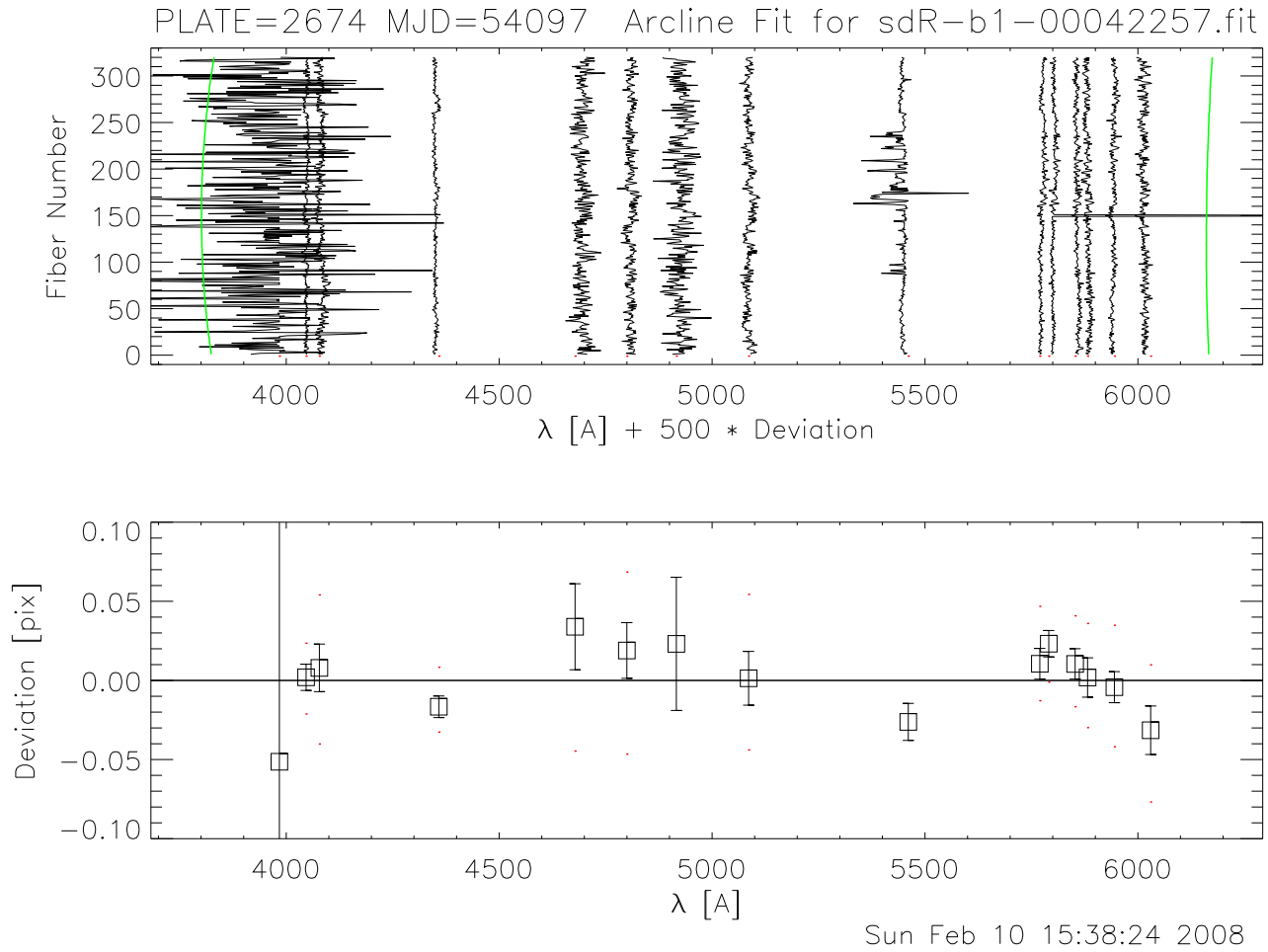

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

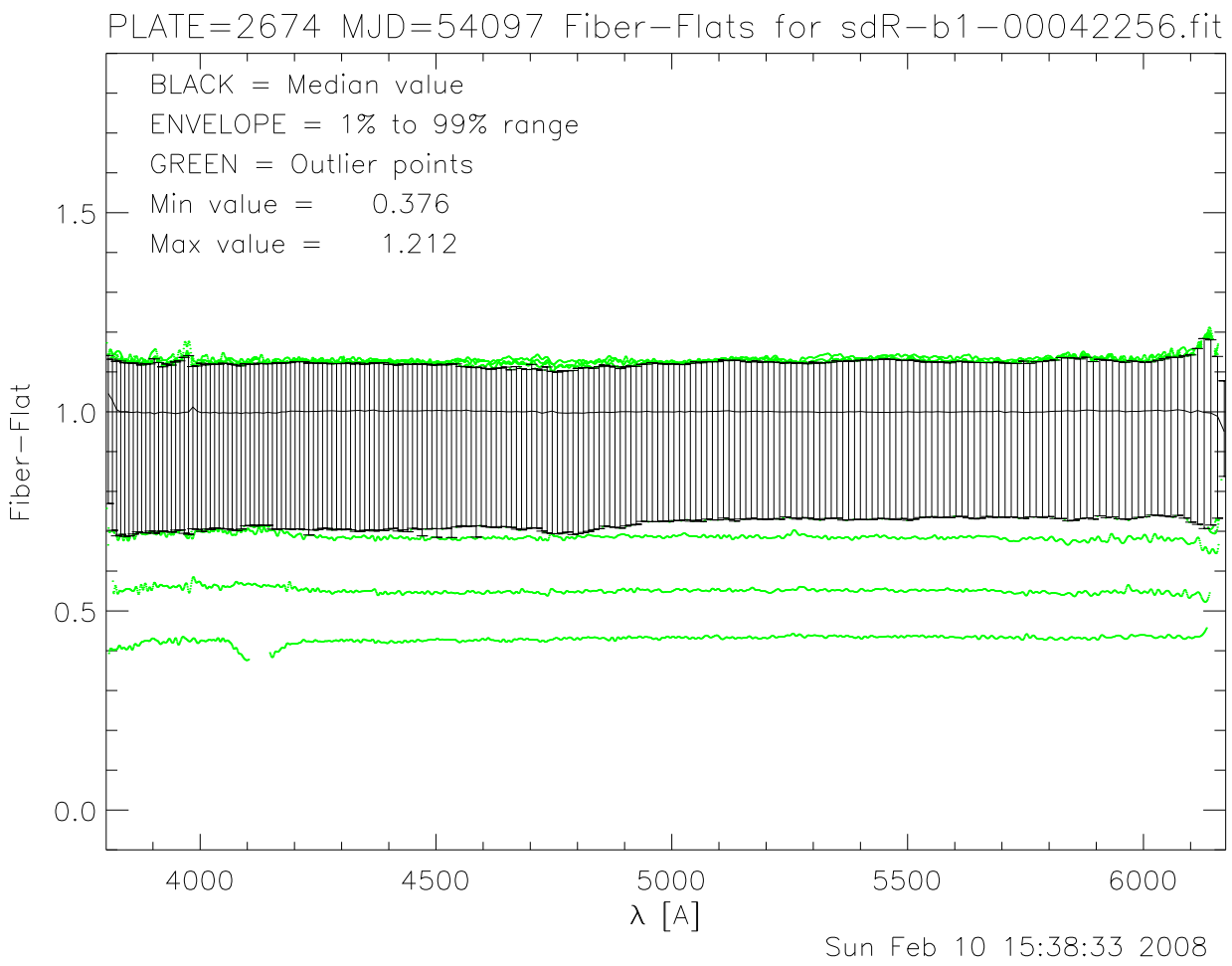

PLATE=2674 MJD=54097 flat extraction chi^2 for sdR−b1−00042251.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
14
0
500
1000
1500
2000

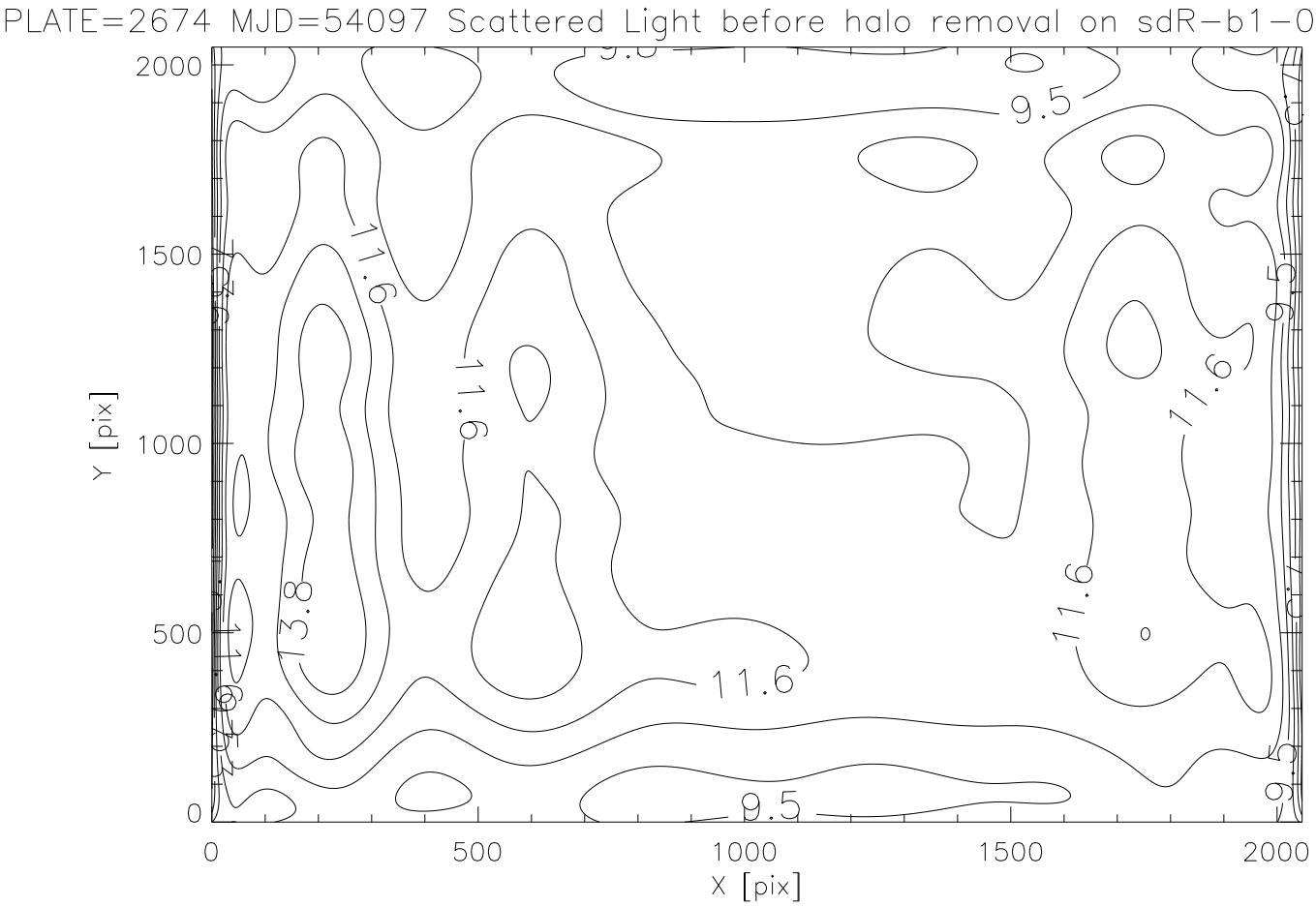

PLATE=2674 MJD=54097 Superflat sdR-b1-00042251.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

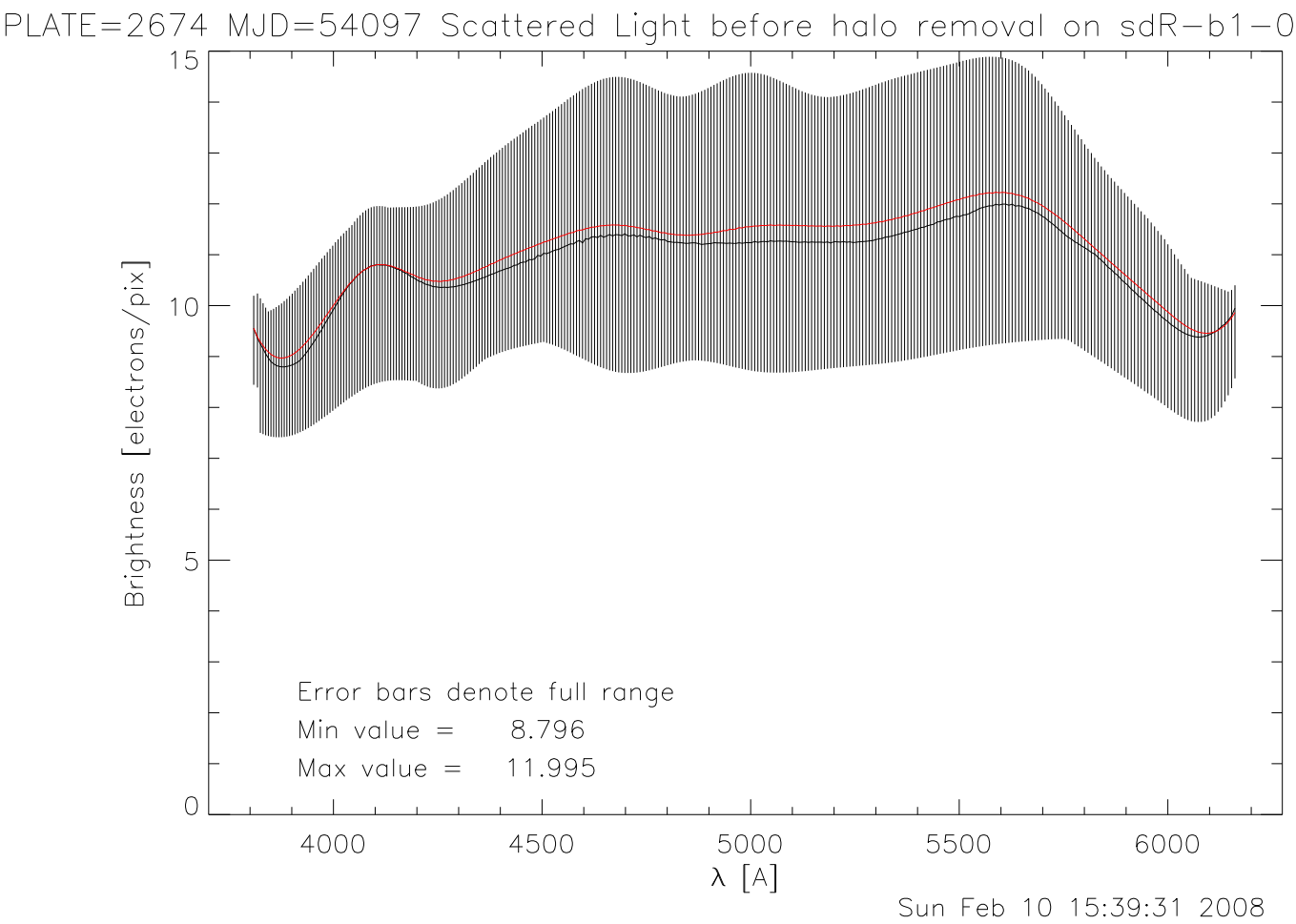

PLATE=2674 MJD=54097 flat extraction chi^2 for sdR−b1−00042256.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

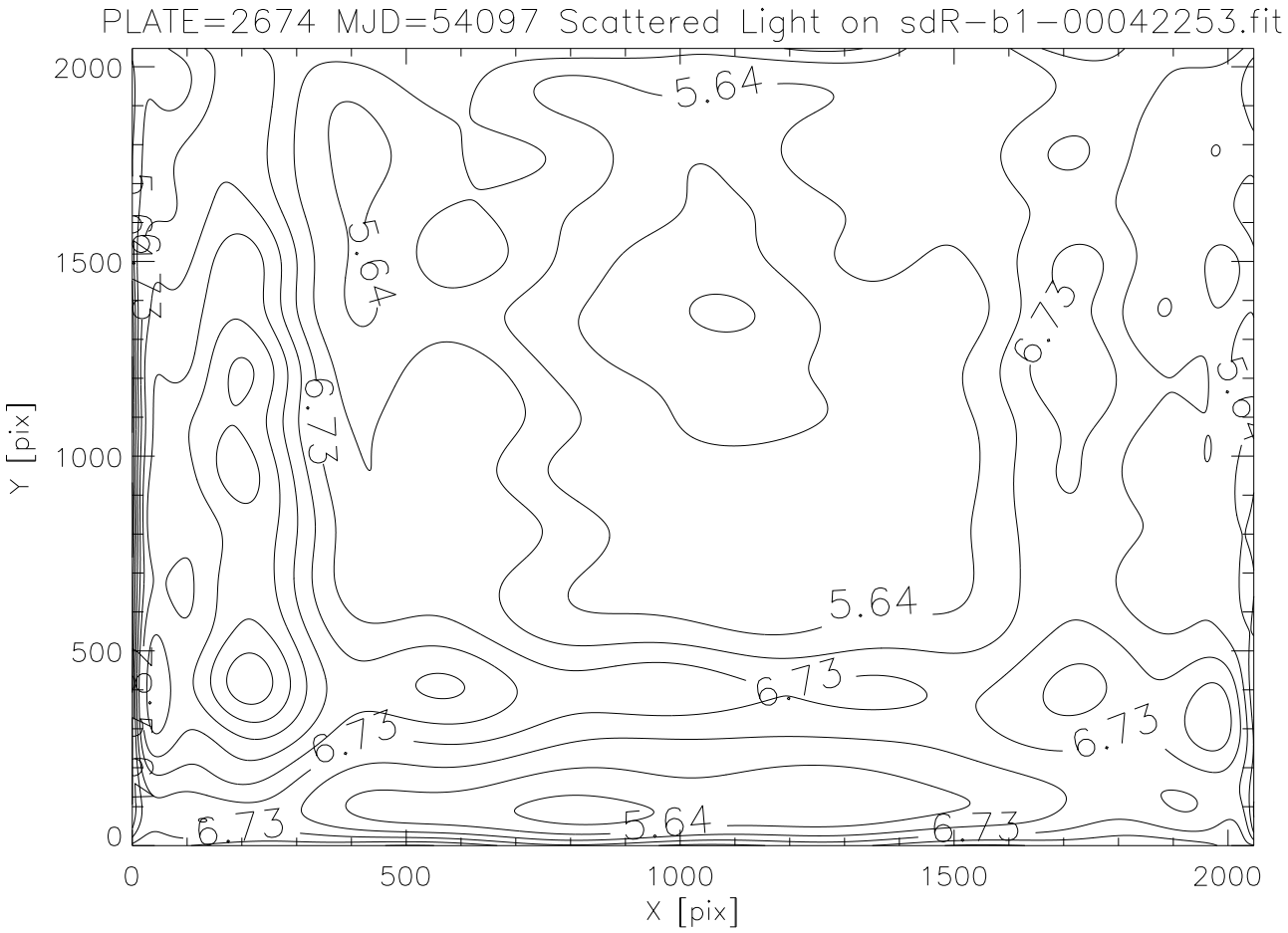

PLATE=2674 MJD=54097 Superflat sdR-b1-00042256.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

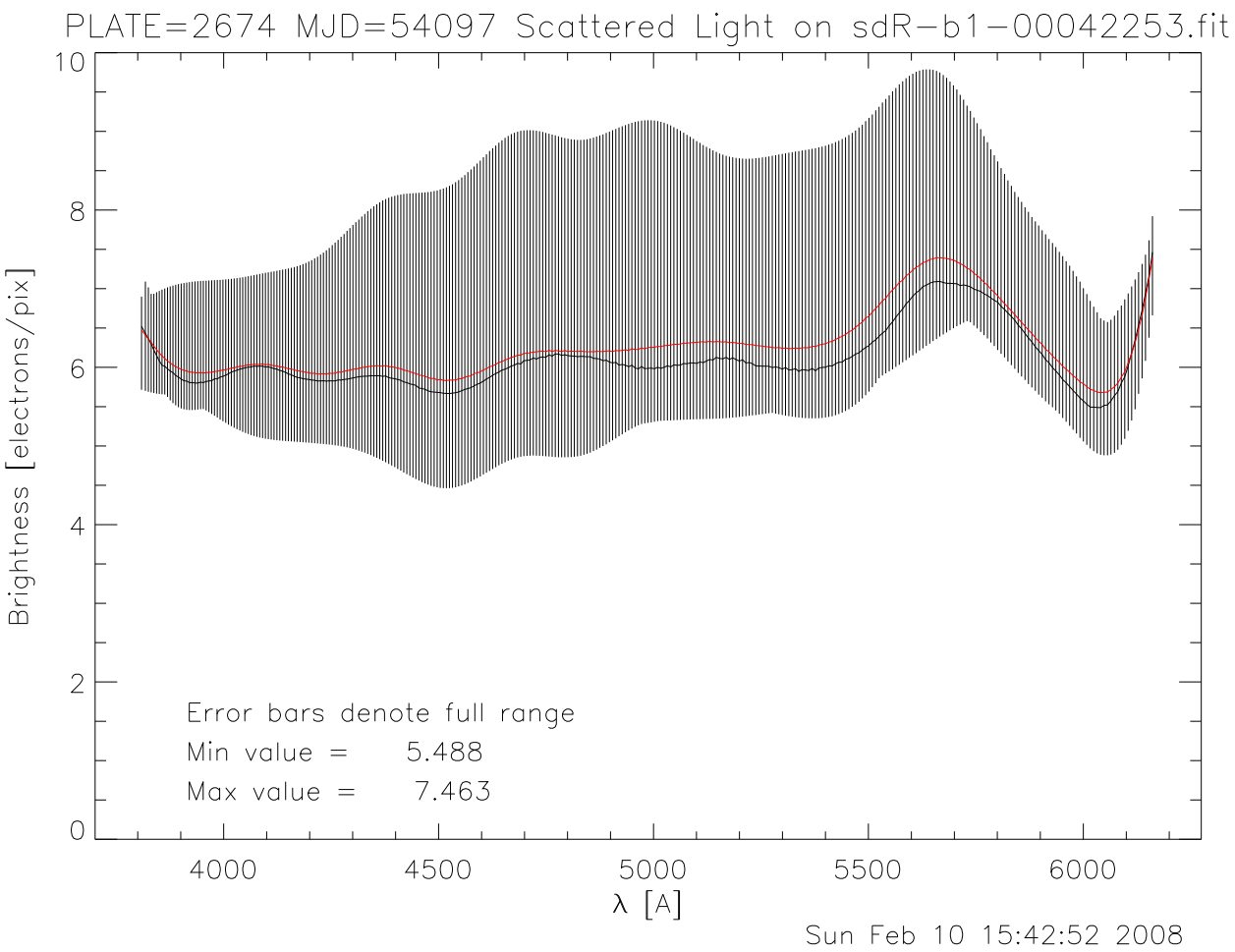

PLATE=2674 MJD=54097 Arcline Fit for sdR-b1-00042257.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Sun Feb 10 15:38:24 2008

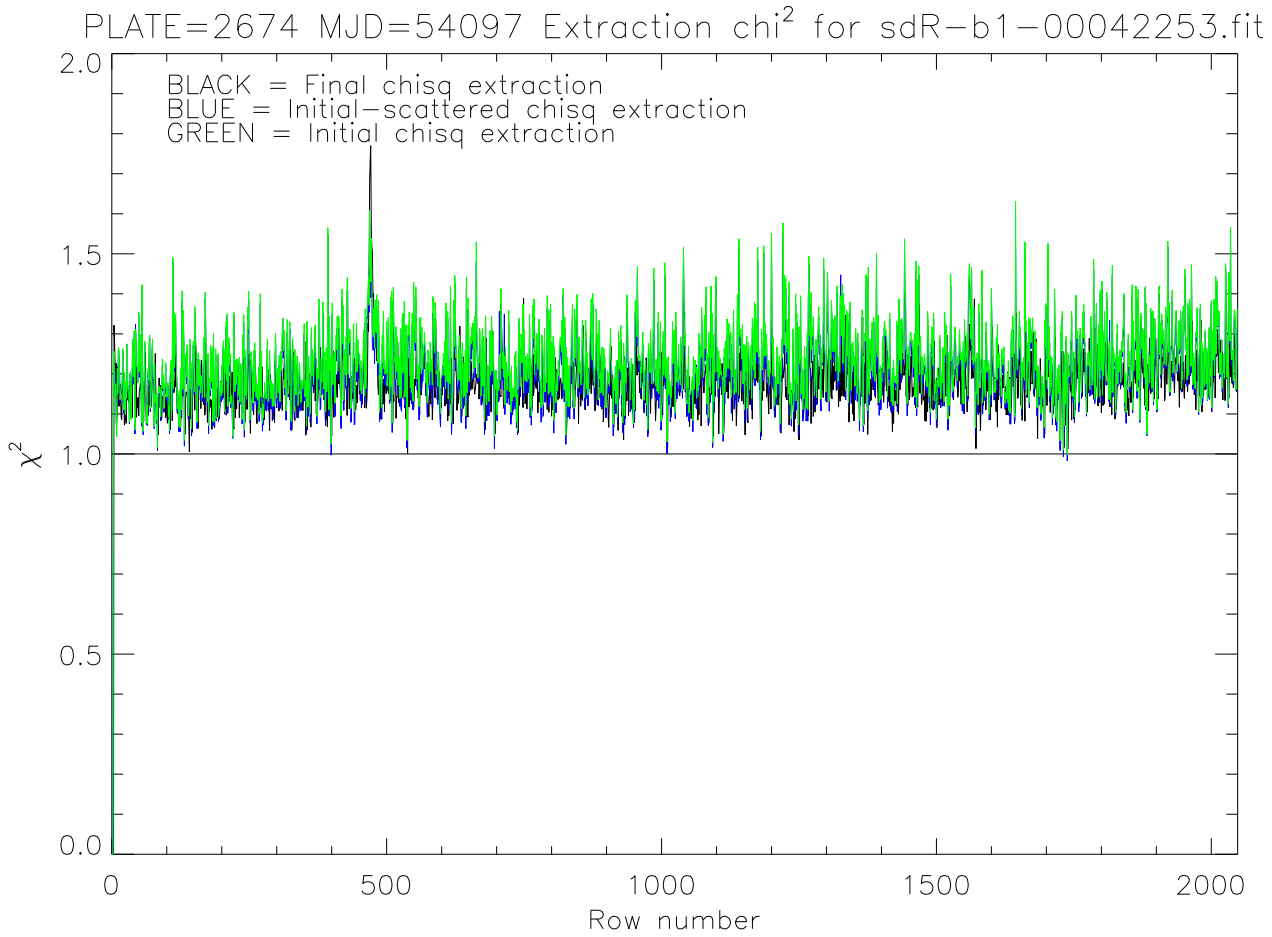

PLATE=2674 MJD=54097 Fiber-Flats for sdR-b1-00042256.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.376
Max value = 1.212
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sun Feb 10 15:38:33 2008

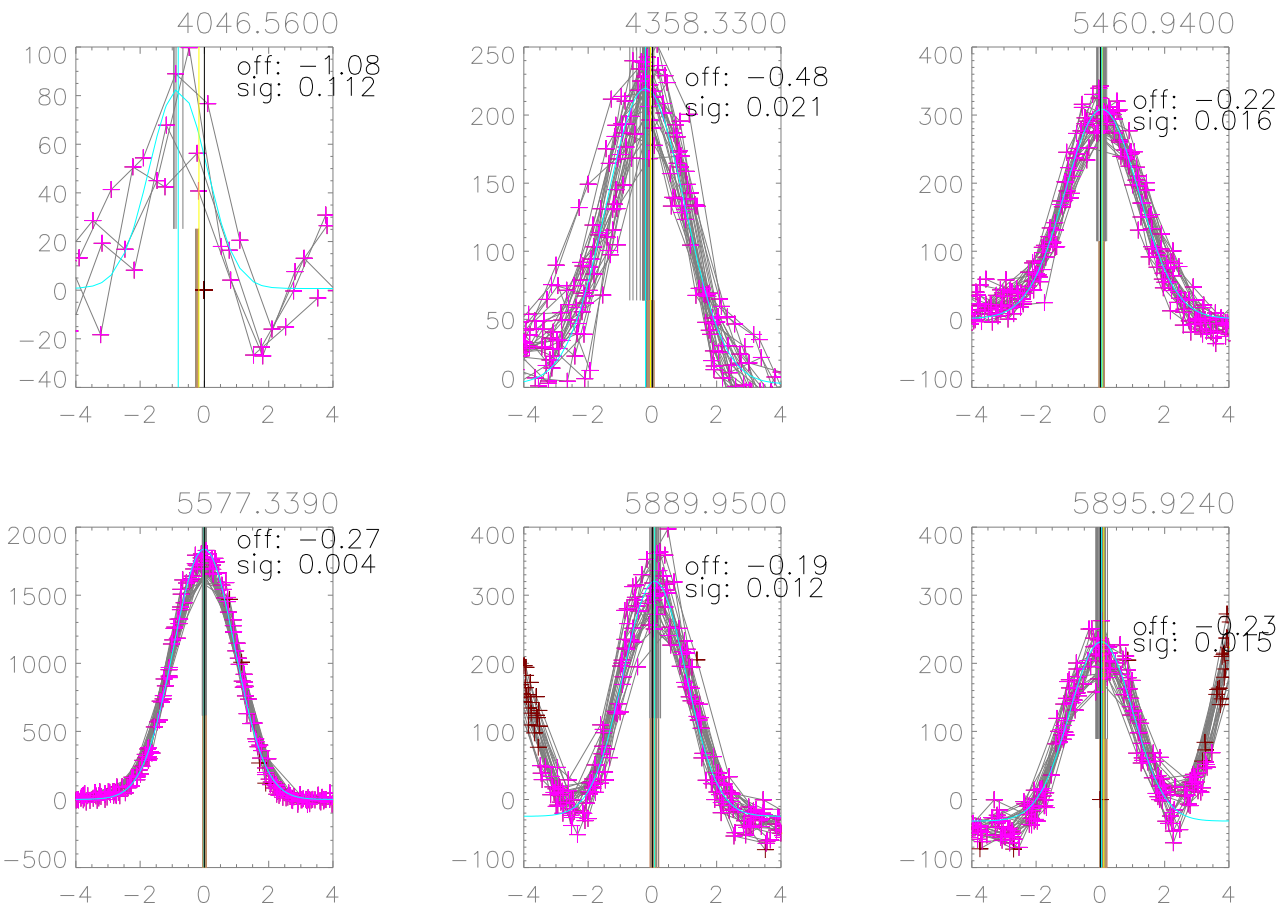

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR−b1−00042253.f
Y [pix]
X [pix]
0
500
1000
1500
2000
9.5
11.6
13.8

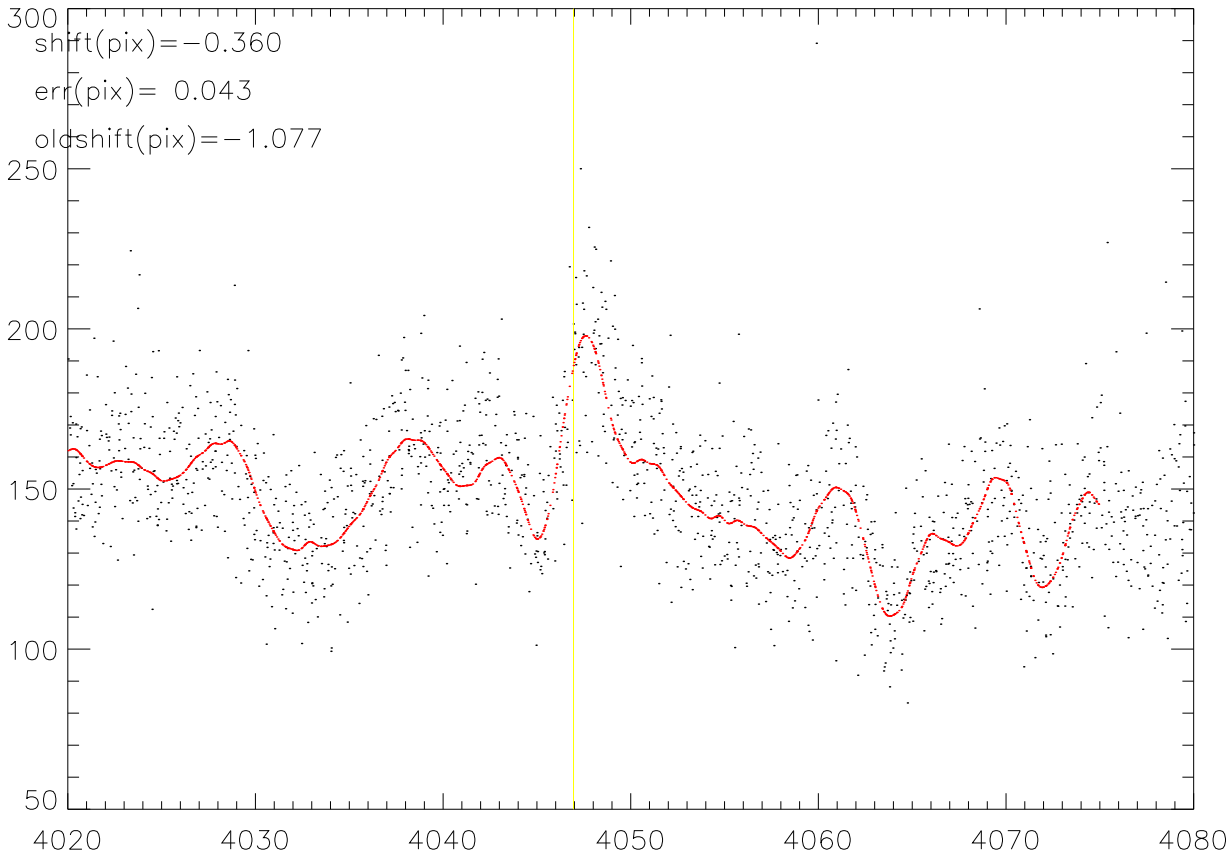

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR-b1-00042253.f
Brightness [electrons/pix]
15
10
5
0
Error bars denote full range
Min value = 8.796
Max value = 11.995
4000
4500
5000
5500
6000
λ [A]
Sun Feb 10 15:39:31 2008

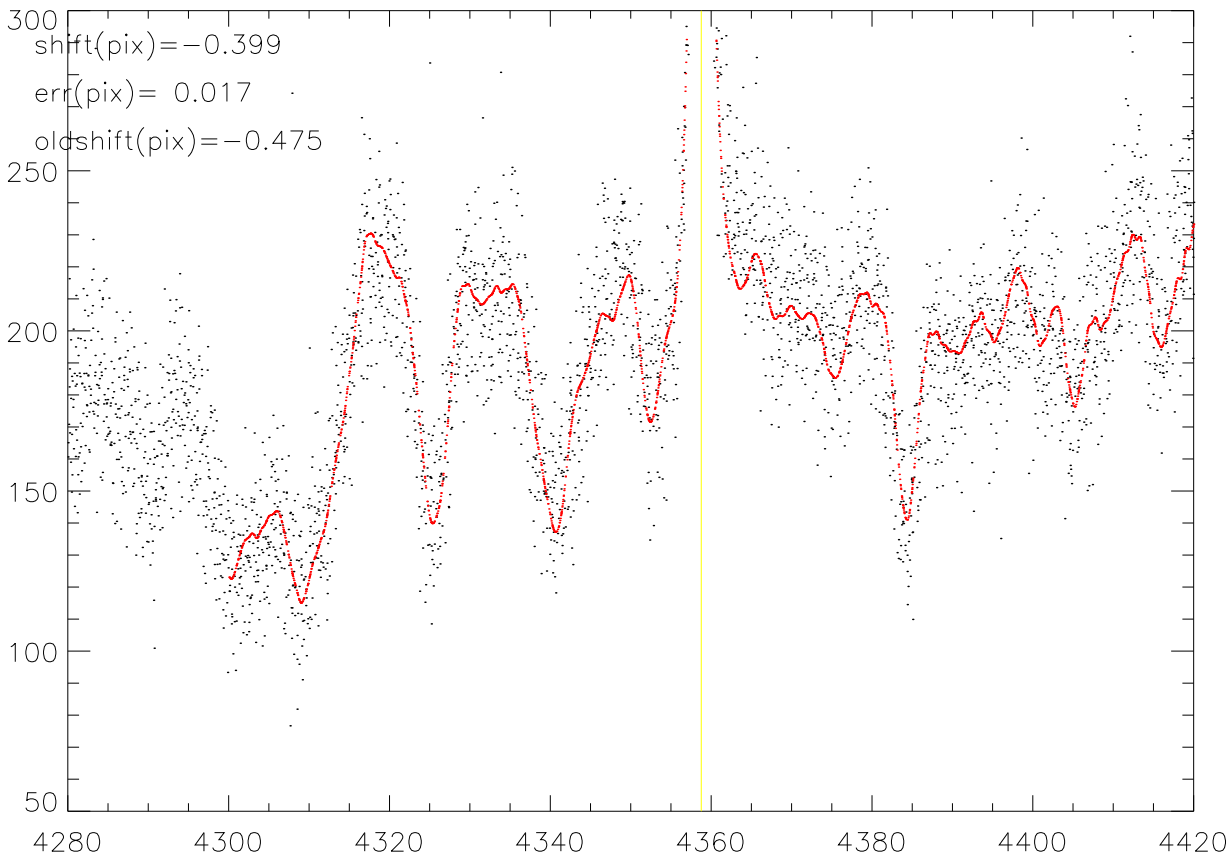

PLATE=2674 MJD=54097 Scattered Light on sdR-b1-00042253.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
5.64
6.73

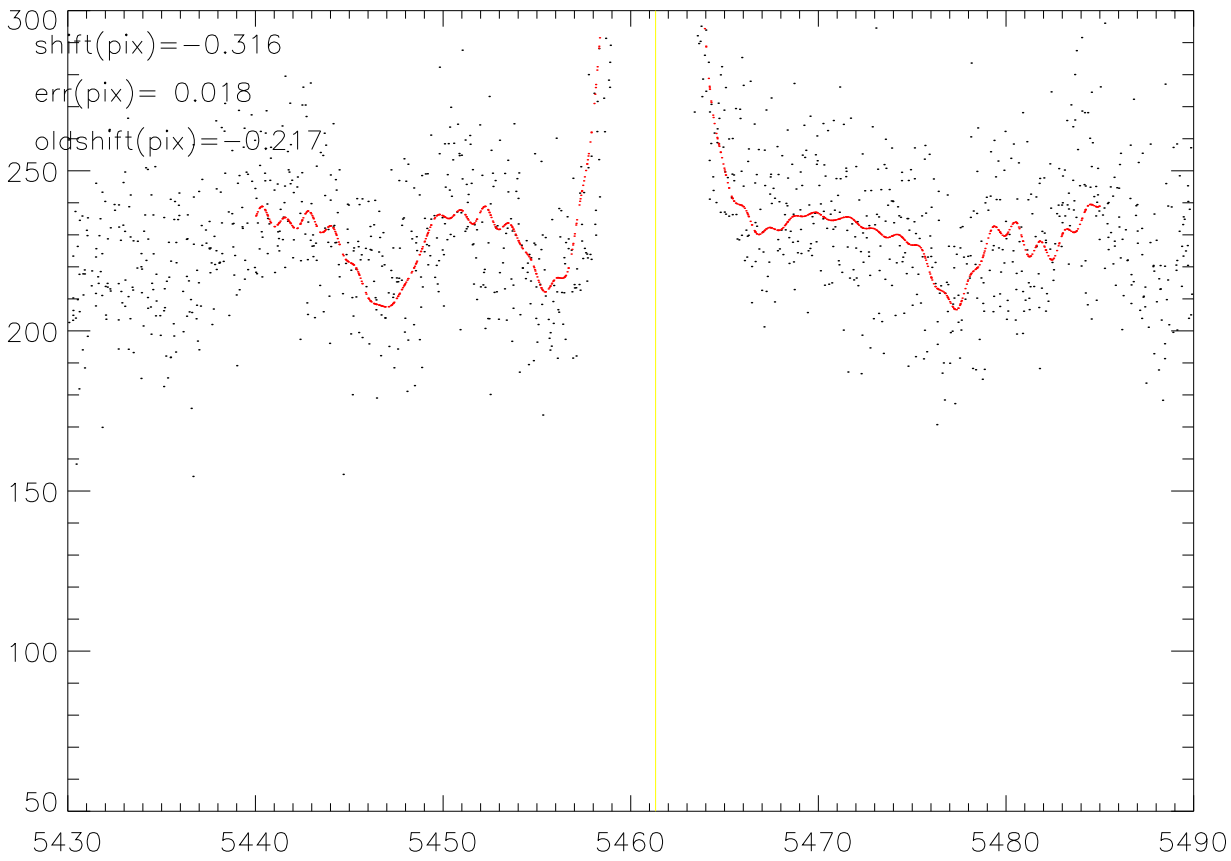

PLATE=2674 MJD=54097 Scattered Light on sdR-b1-00042253.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.488
Max value = 7.463
Sun Feb 10 15:42:52 2008

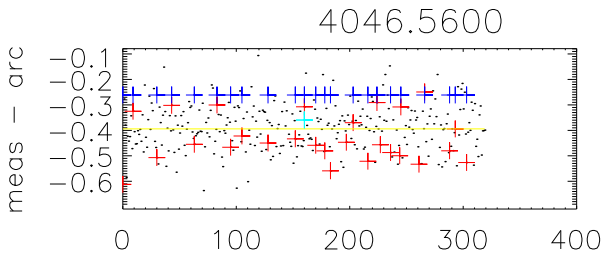

PLATE=2674 MJD=54097 Extraction chi^2 for sdR-b1-00042253.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

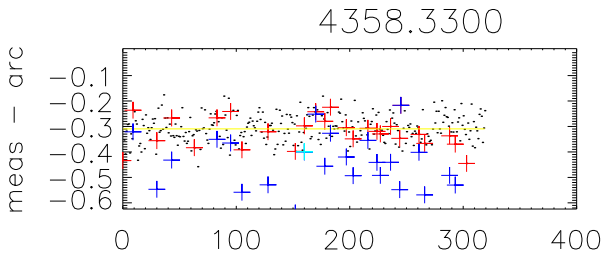

4046.5600
off: −1.08
sig: 0.112
4358.3300
off: −0.48
sig: 0.021
5460.9400
off: −0.22
sig: 0.016
5577.3390
off: −0.27
sig: 0.004
5889.9500
off: −0.19
sig: 0.012
5895.9240
off: −0.23
sig: 0.015

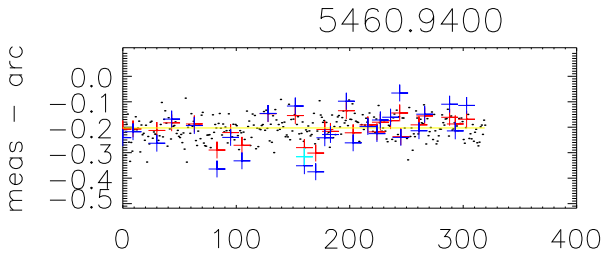

shift(pix)=−0.360
err(pix)= 0.043
oldshift(pix)=−1.077
300
250
200
150
100
50
4020
4030
4040
4050
4060
4070
4080

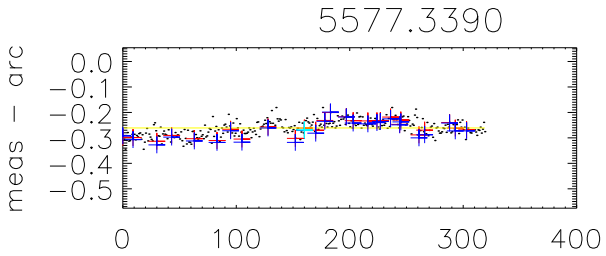

shift(pix)=−0.399
err(pix)= 0.017
oldshift(pix)=−0.475
300
250
200
150
100
50
4280
4300
4320
4340
4360
4380
4400
4420

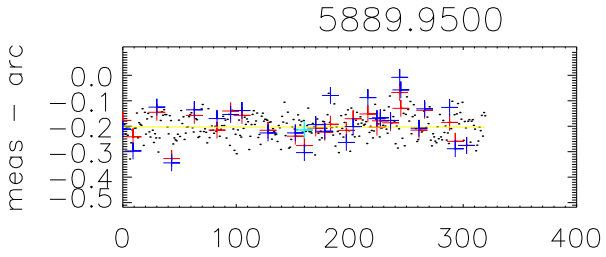

shift(pix)=−0.316
err(pix)= 0.018
oldshift(pix)=−0.217
300
250
200
150
100
50
5430
5440
5450
5460
5470
5480
5490

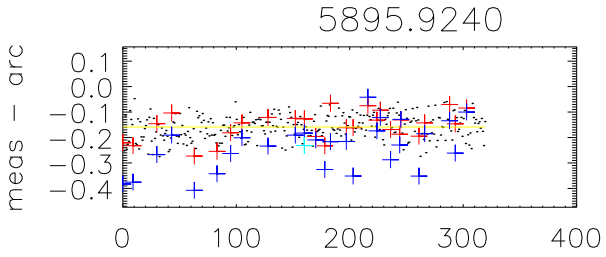

4046.5600
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

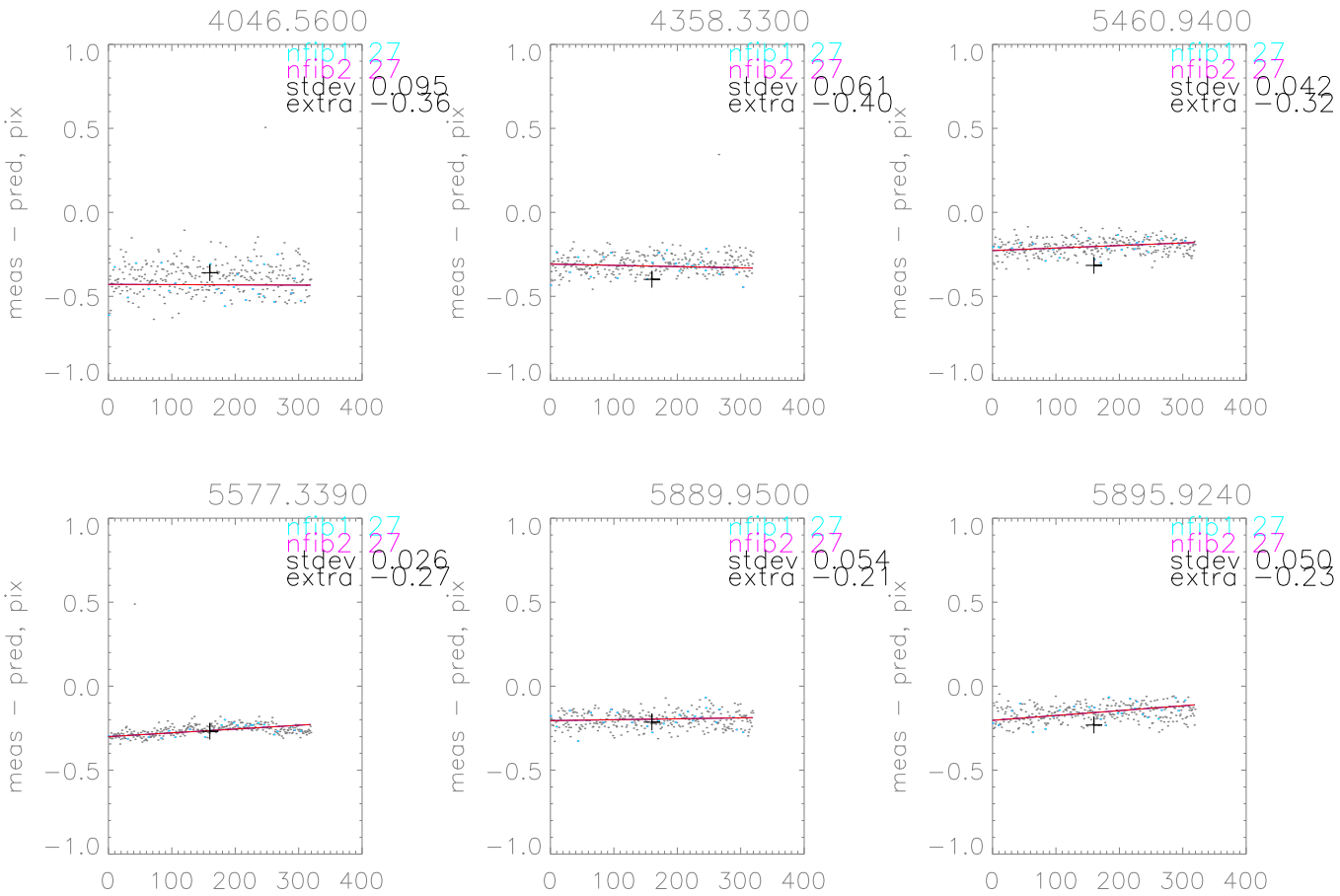

4358.3300
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

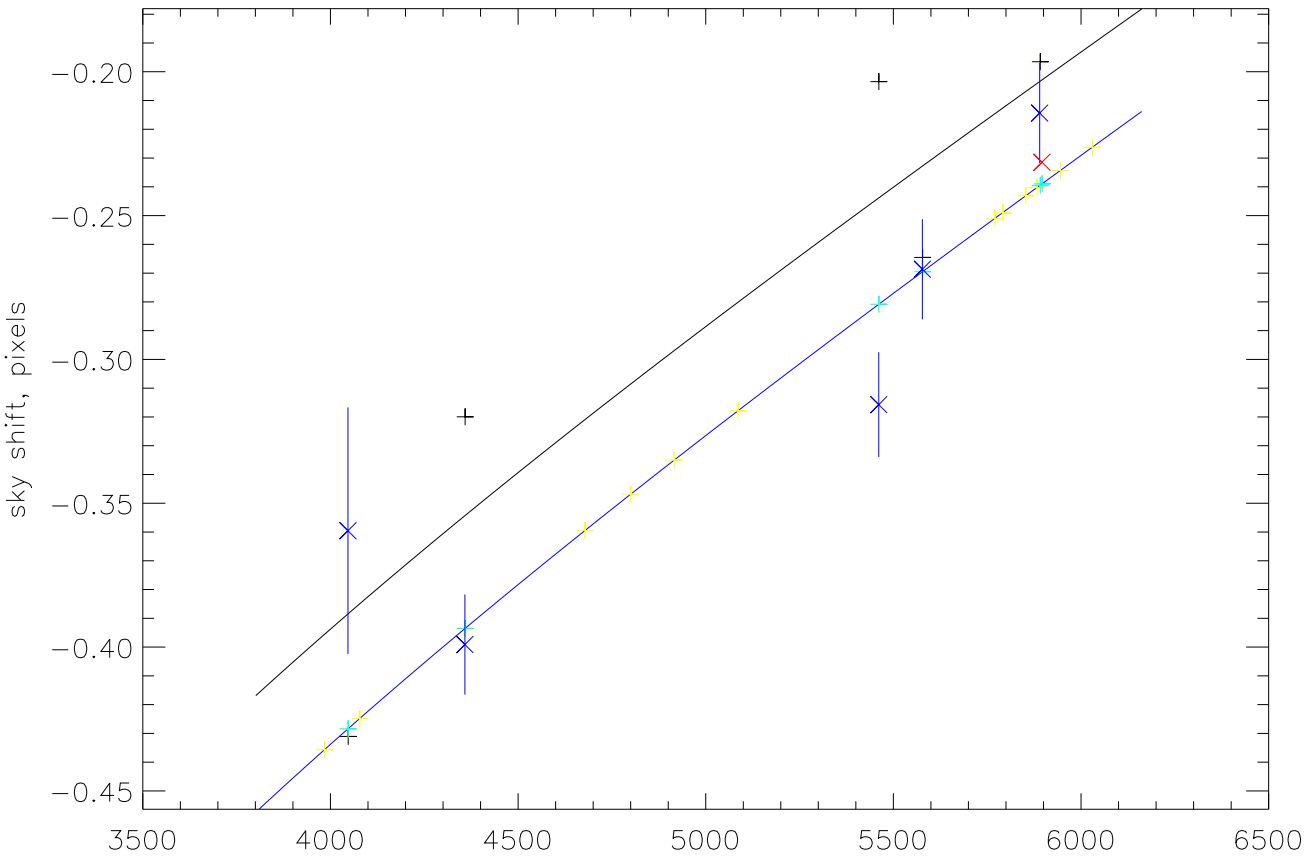

5460.9400
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400


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

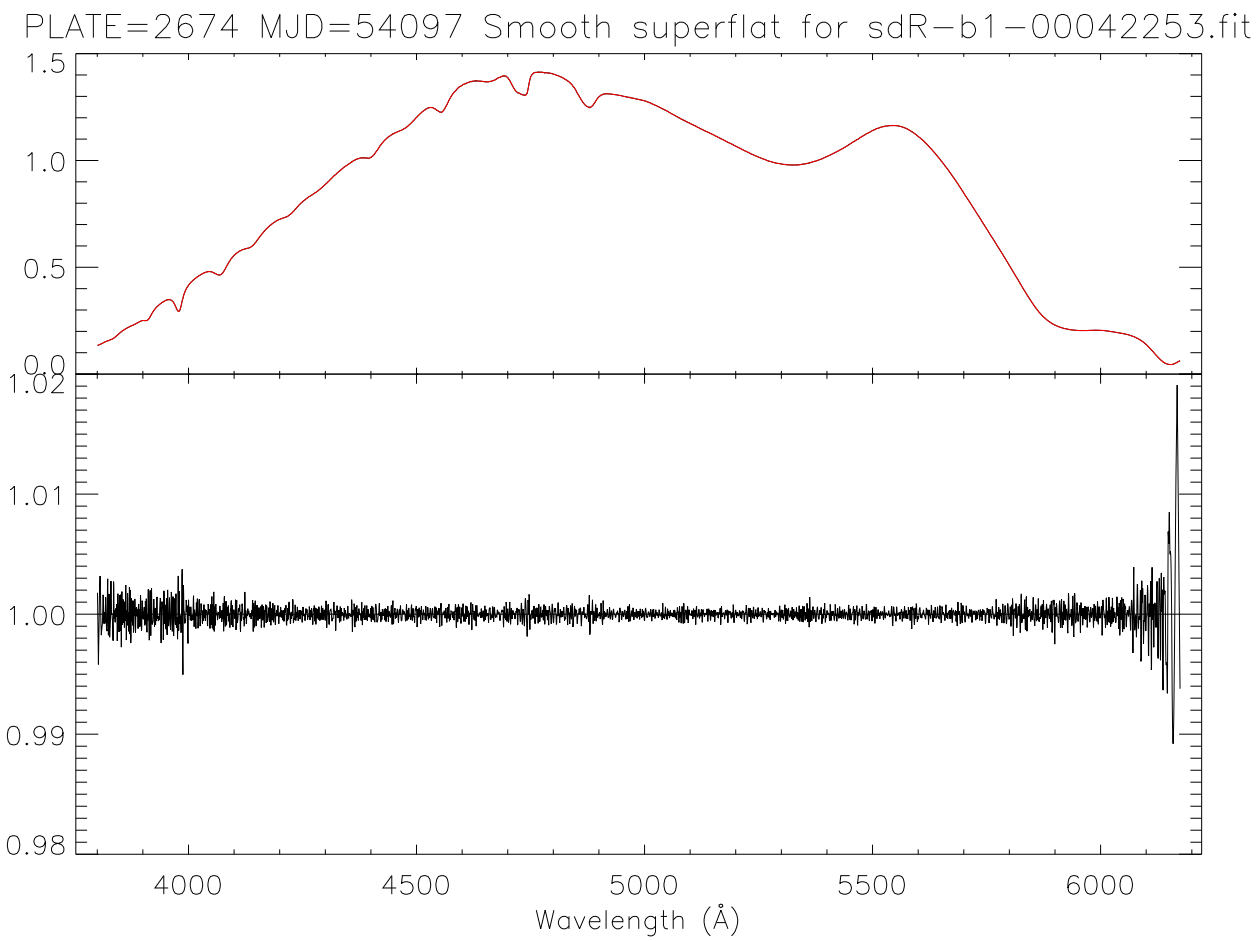

5889.9500
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

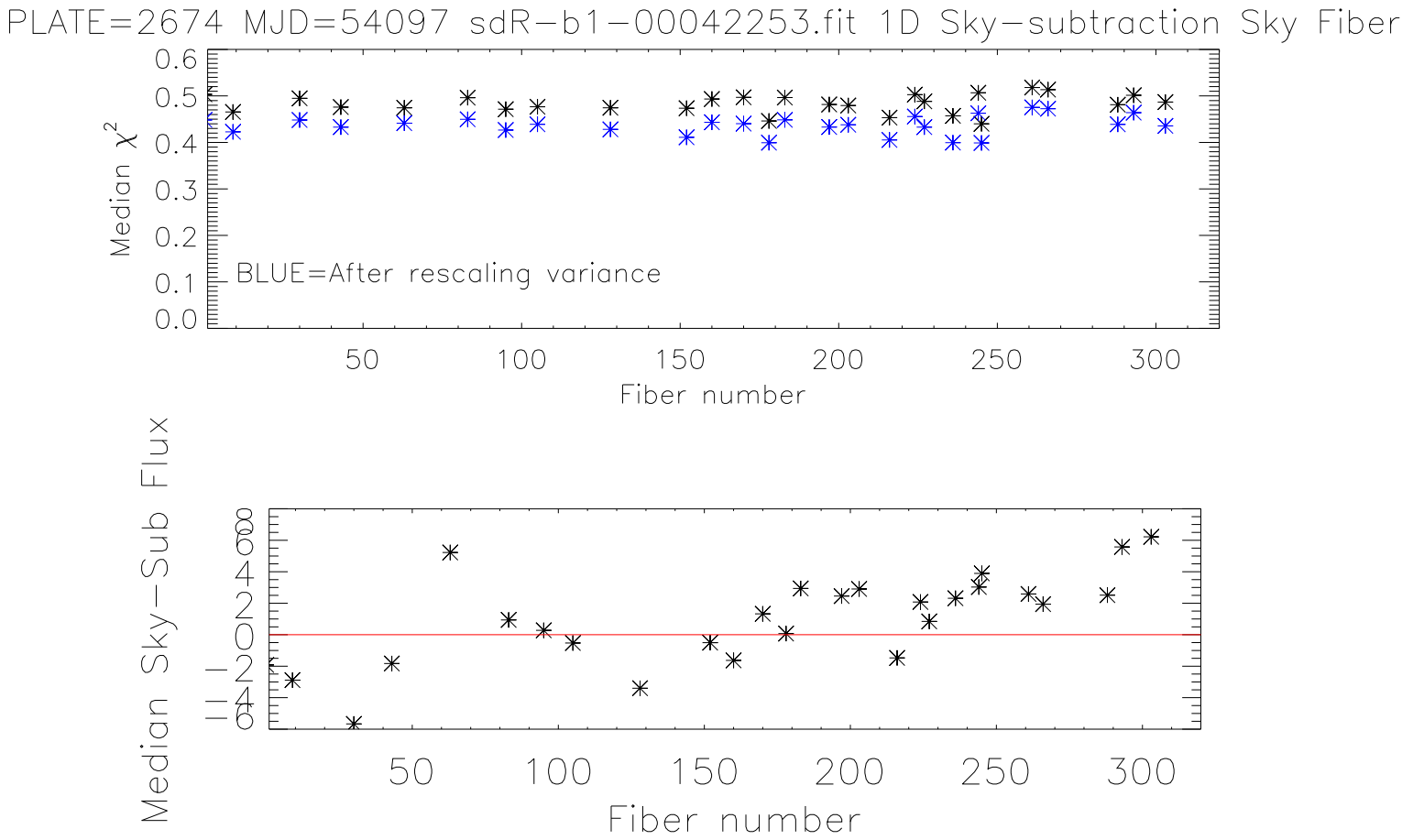

5895.9240
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

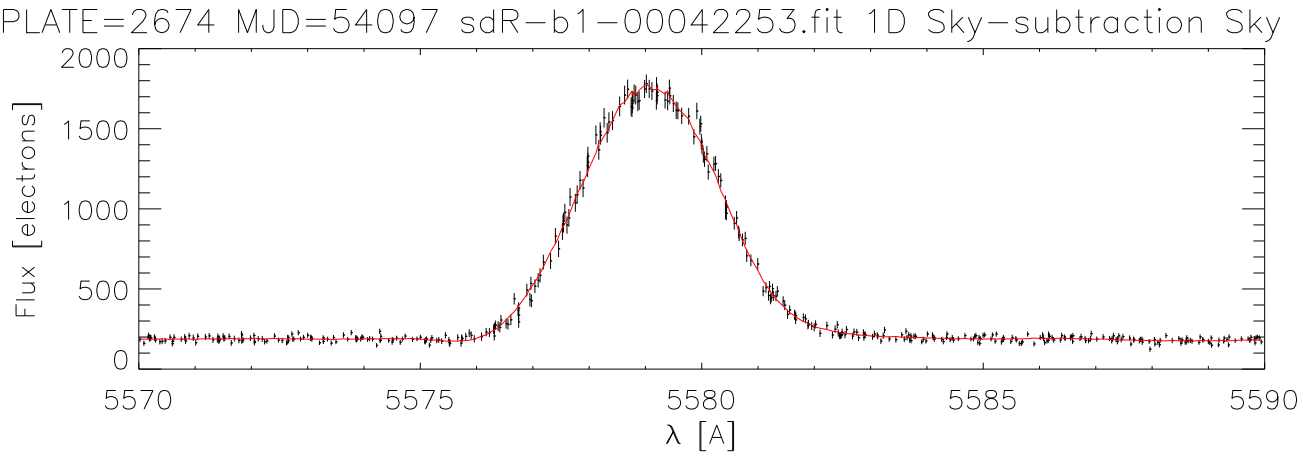

4046.5600
nfib1 27
nfib2 27
stdev 0.095
extra −0.36
4358.3300
nfib1 27
nfib2 27
stdev 0.061
extra −0.40
5460.9400
nfib1 27
nfib2 27
stdev 0.042
extra −0.32
5577.3390
nfib1 27
nfib2 27
stdev 0.026
extra −0.27
5889.9500
nfib1 27
nfib2 27
stdev 0.054
extra −0.21
5895.9240
nfib1 27
nfib2 27
stdev 0.050
extra −0.23
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

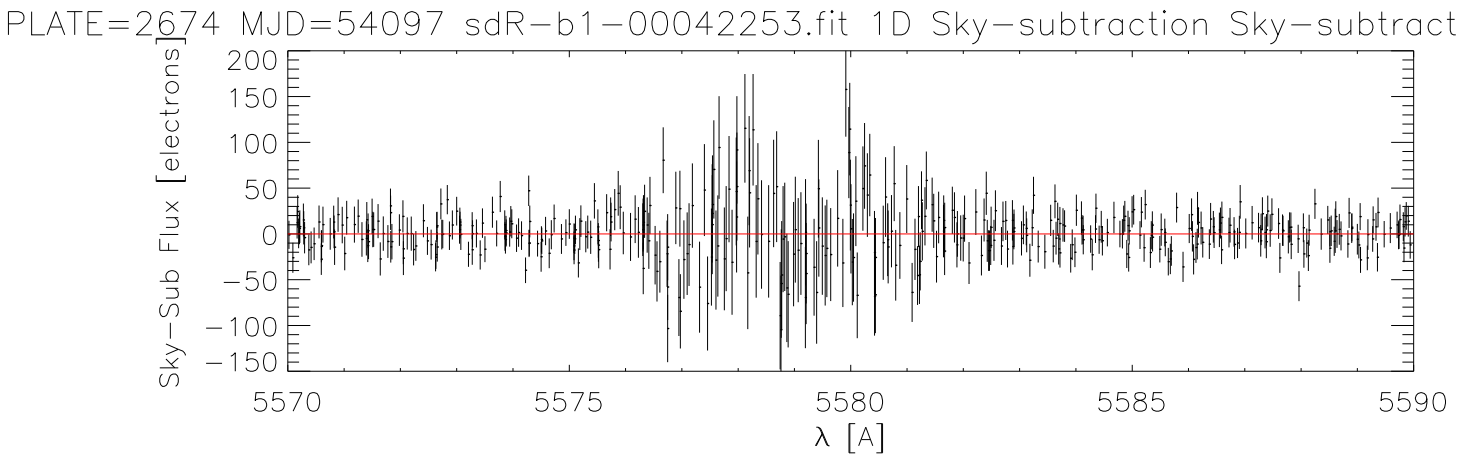

sky shift, pixels
−0.20
−0.25
−0.30
−0.35
−0.40
−0.45
3500
4000
4500
5000
5500
6000
6500

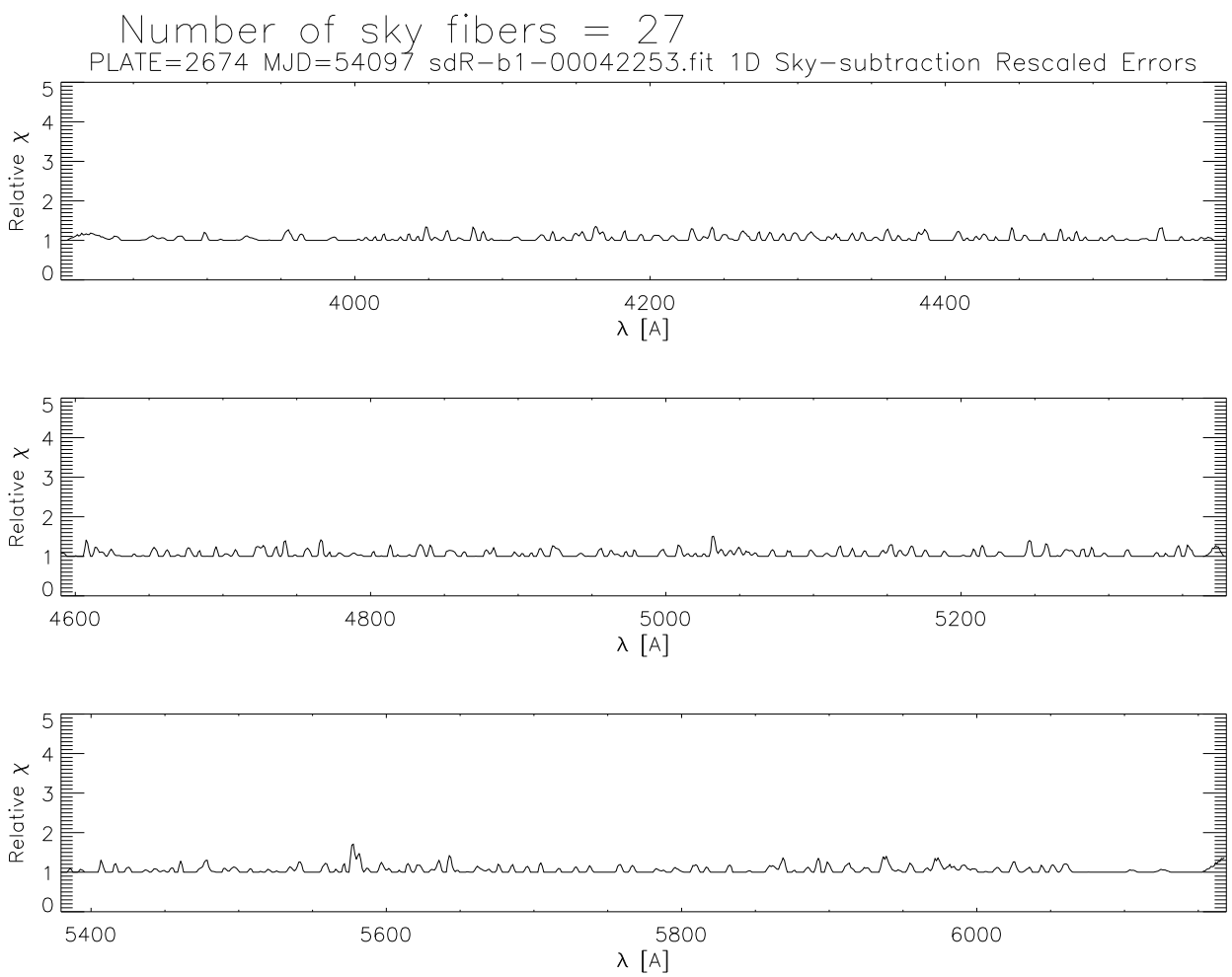
es= −0.0001

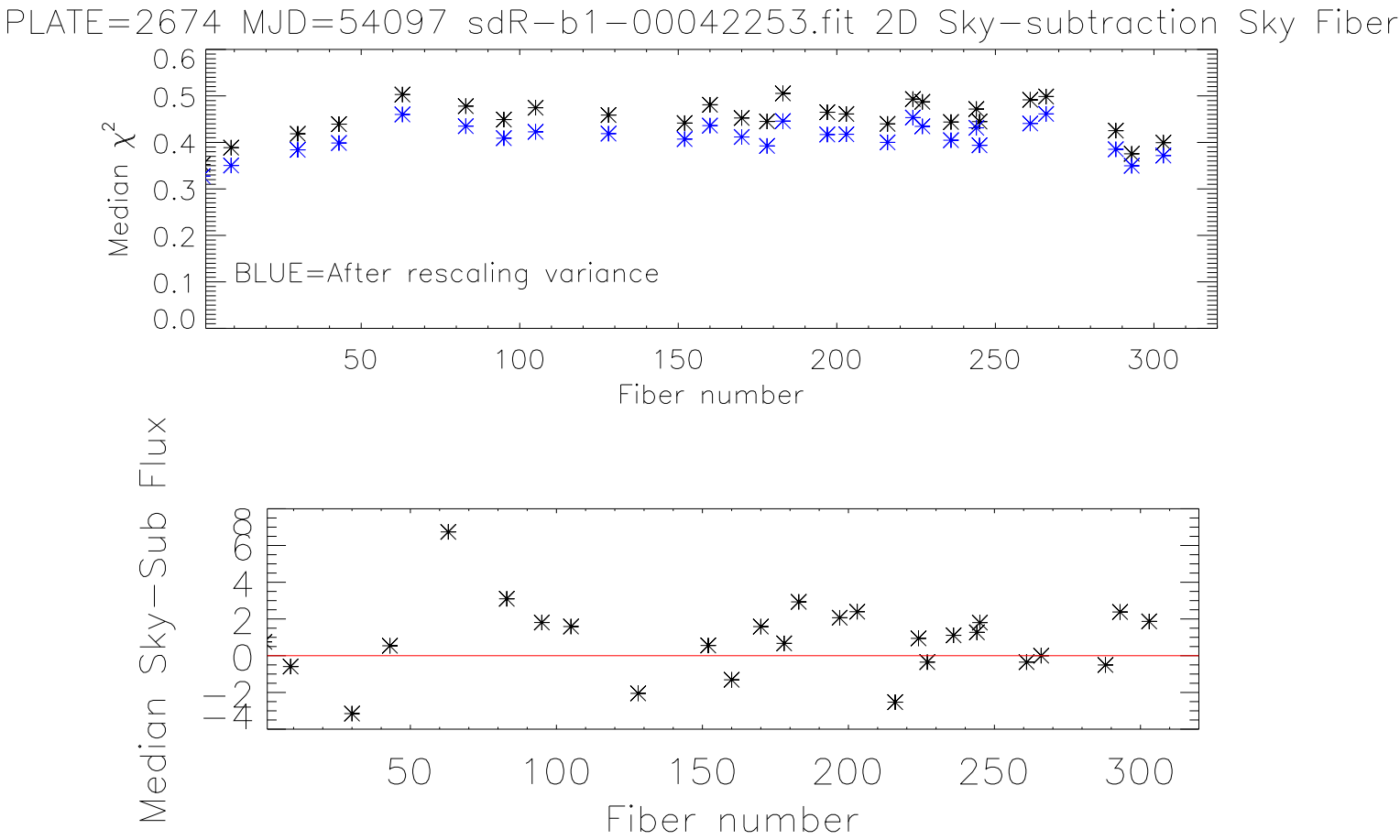

PLATE=2674 MJD=54097 Smooth superflat for sdR−b1−00042253.fit
1.5
1.0
0.5
0.0
1.02
1.01
1.00
0.99
0.98
4000
4500
5000
5500
6000
Wavelength (Å)

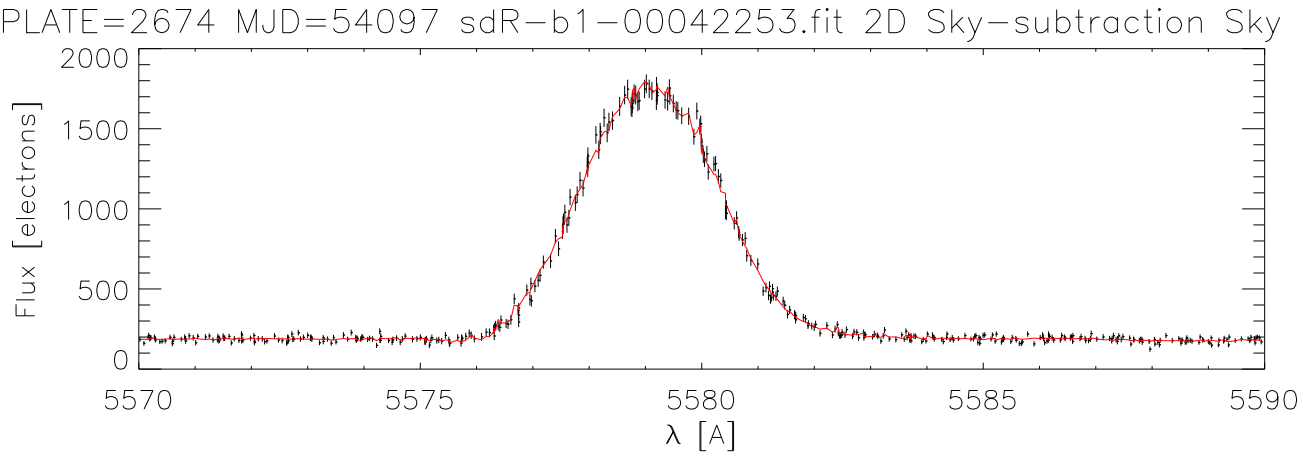

PLATE=2674 MJD=54097 sdR-b1-00042253.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-11
-6
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

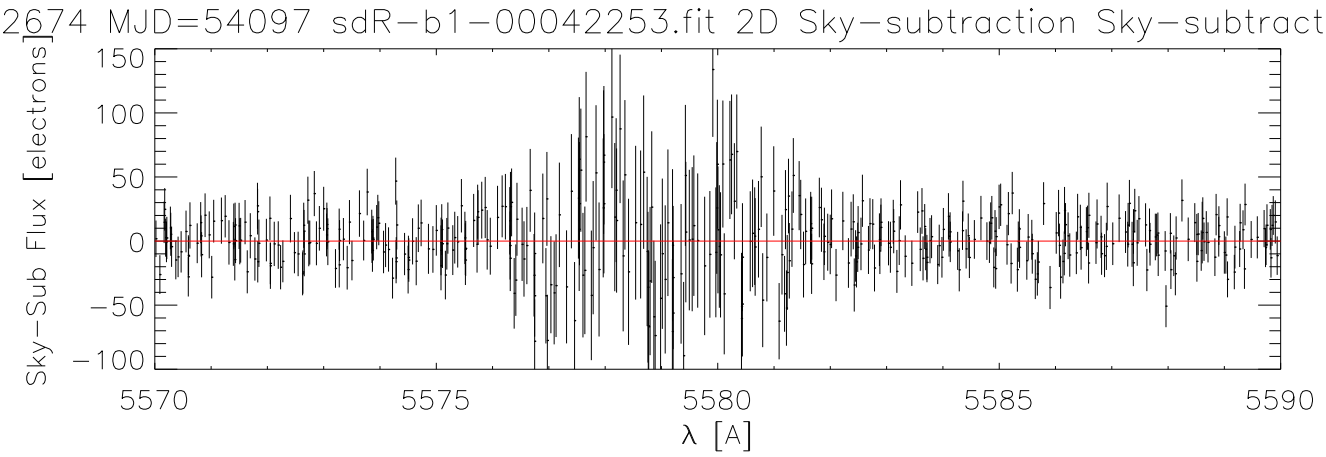

PLATE=2674 MJD=54097 sdR-b1-00042253.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

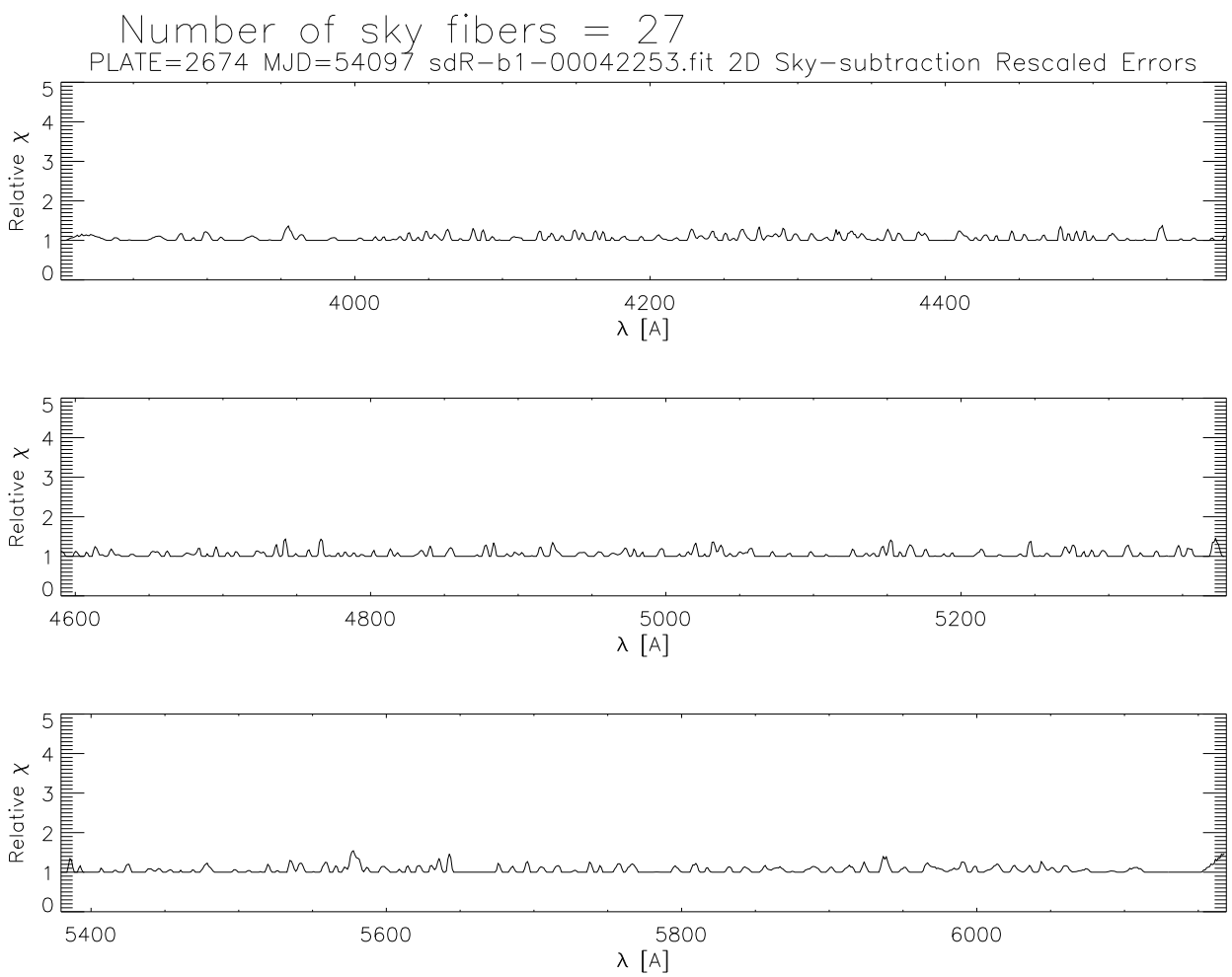

PLATE=2674 MJD=54097 sdR-b1-00042253.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
150
100
50
0
-50
-100
-150
5570
5575
5580
5585
5590
λ [A]

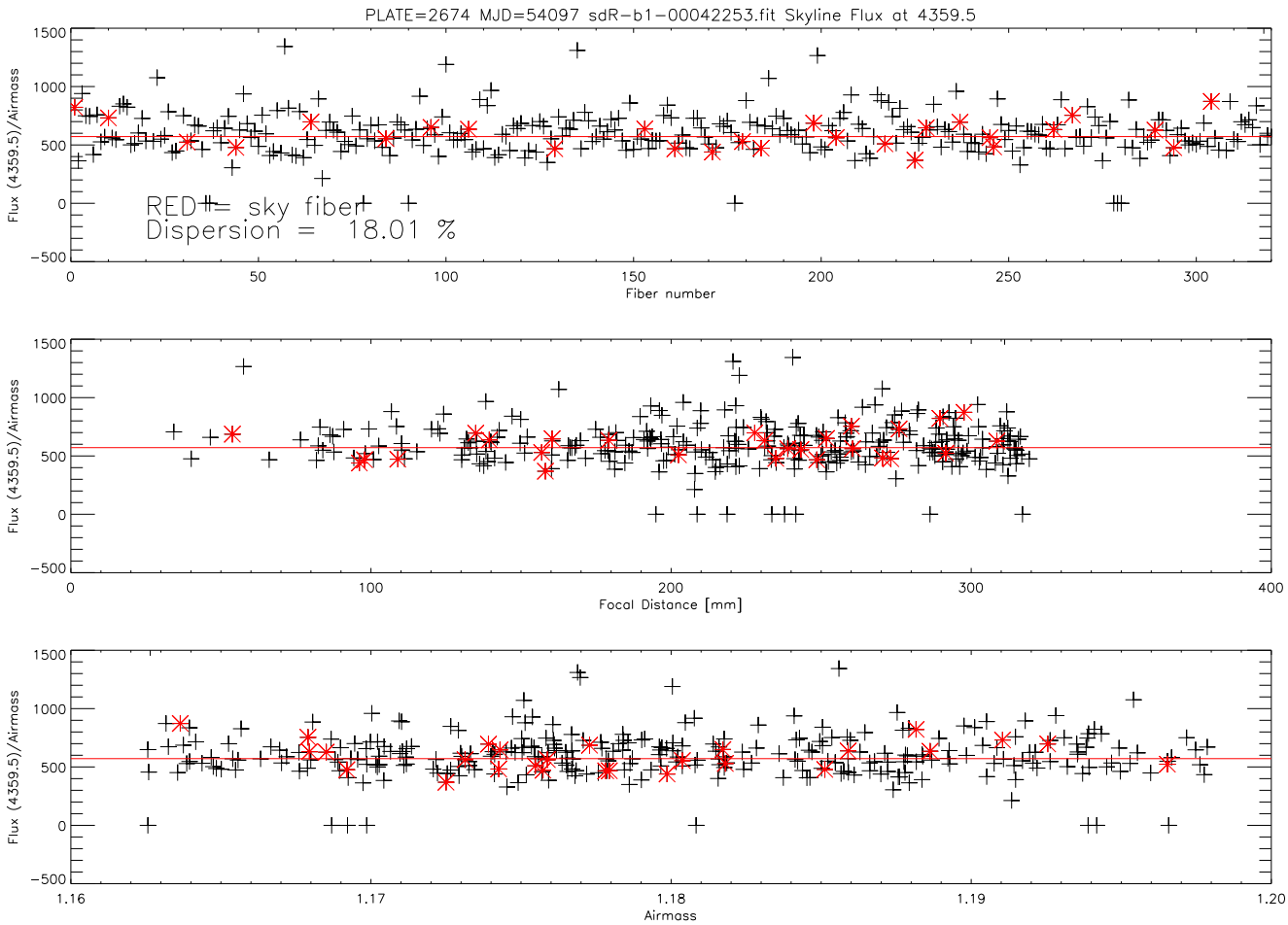

Number of sky fibers = 27
PLATE=2674 MJD=54097 sdR-b1-00042253.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

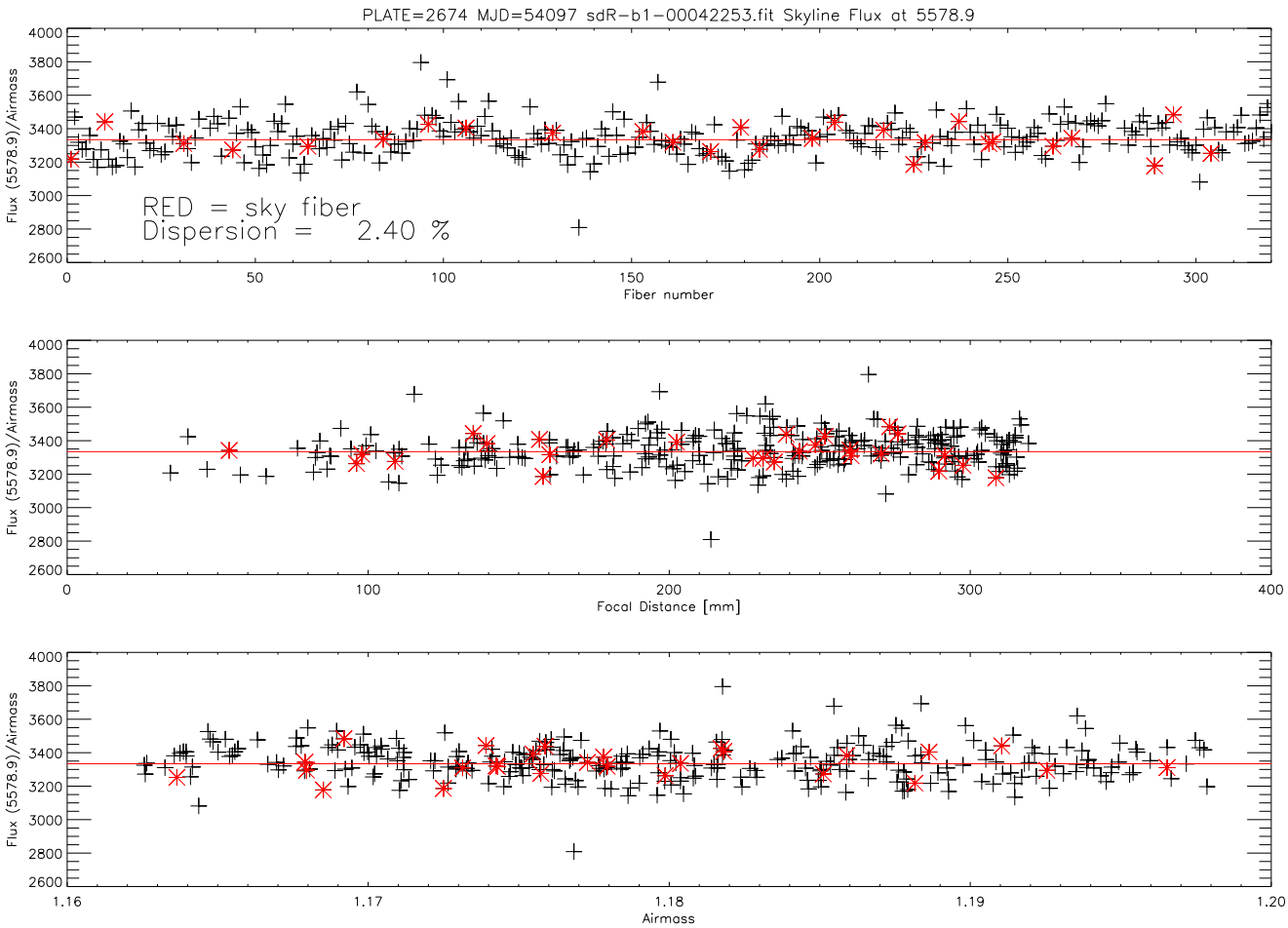

PLATE=2674 MJD=54097 sdR-b1-00042253.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

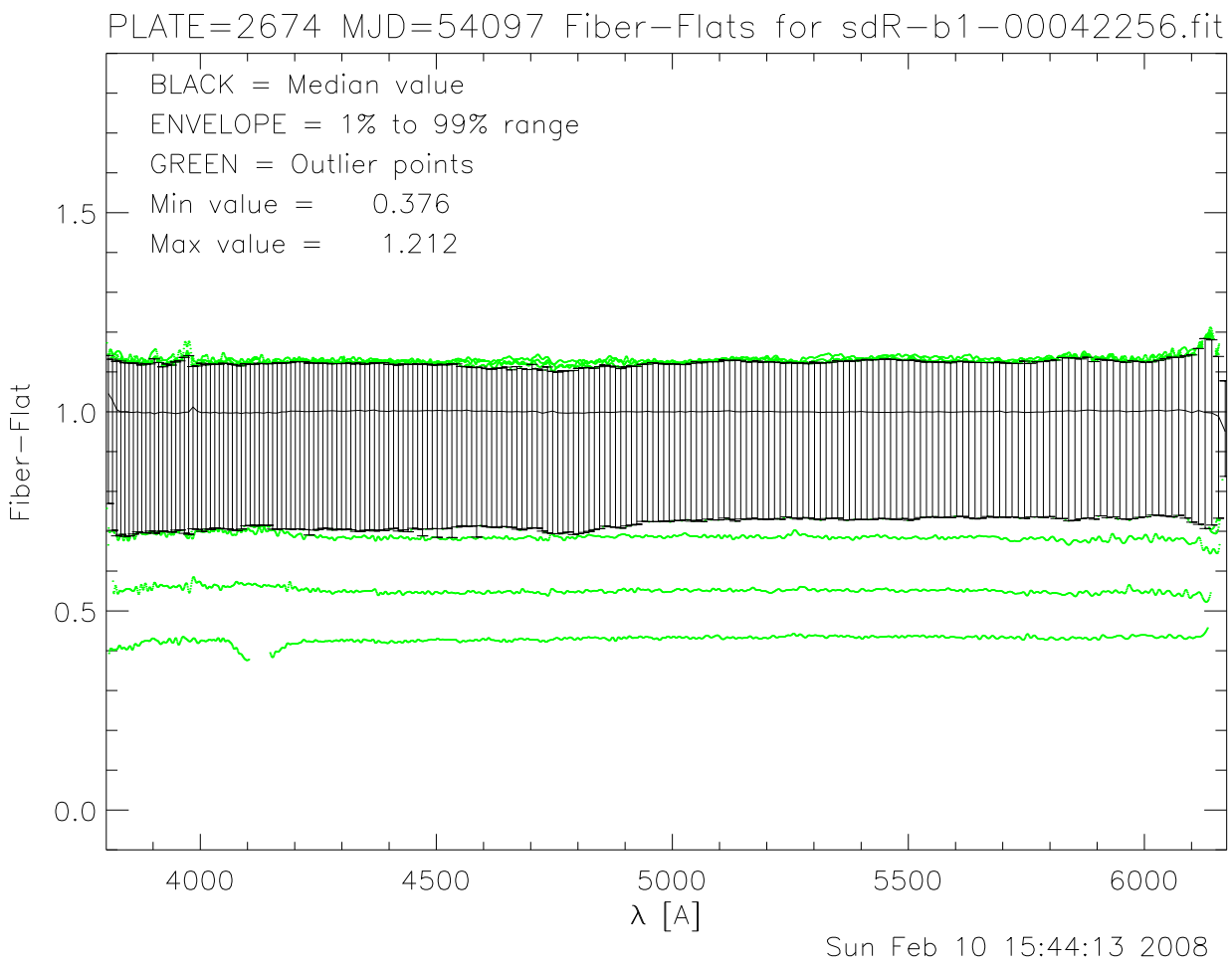

PLATE=2674 MJD=54097 sdR-b1-00042253.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

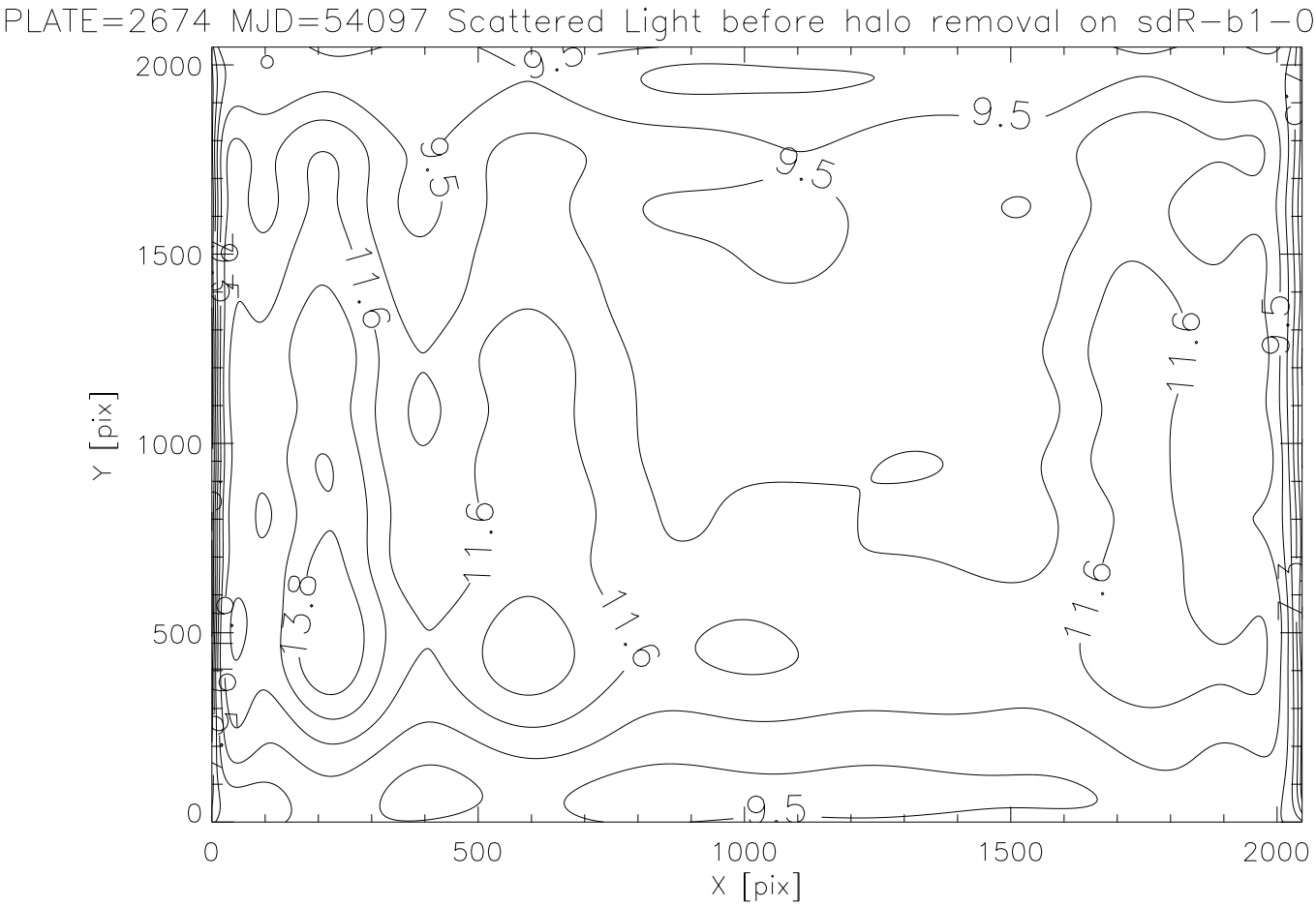

PLATE=2674 MJD=54097 sdR-b1-00042253.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
−50
−100
5570
5575
5580
5585
5590
λ [A]

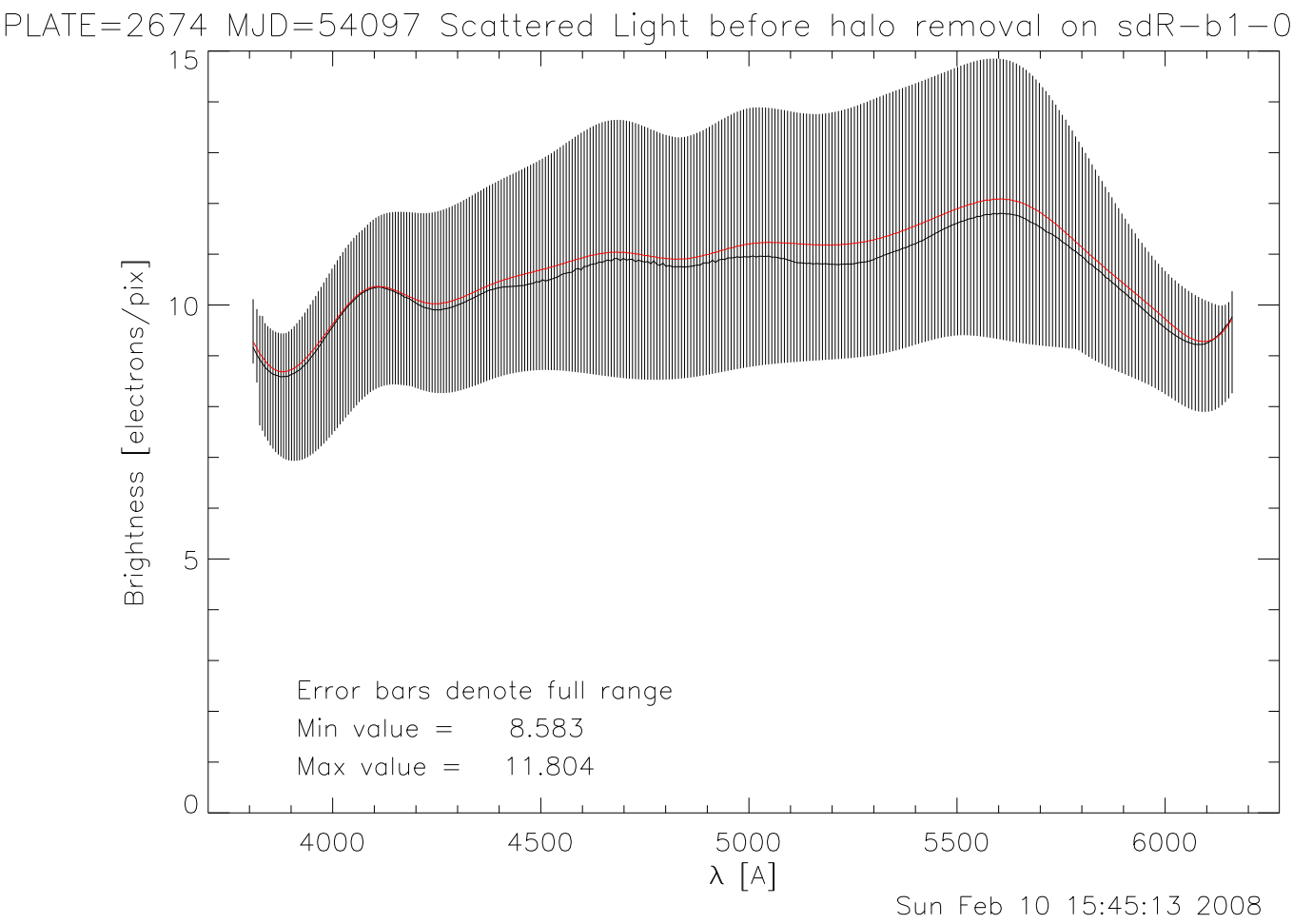

Number of sky fibers = 27
PLATE=2674 MJD=54097 sdR-b1-00042253.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

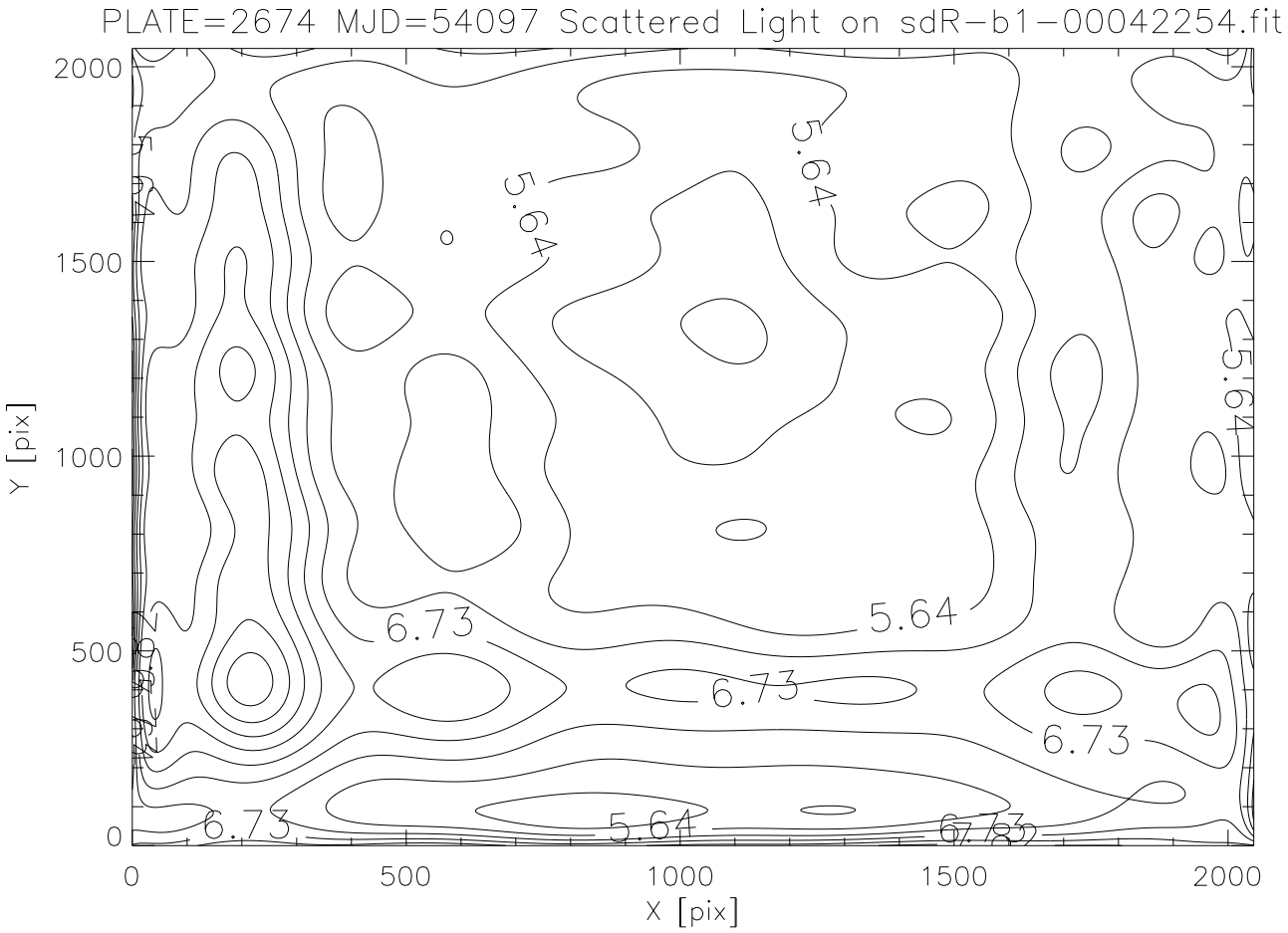

PLATE=2674 MJD=54097 sdR-b1-00042253.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED= sky fiber
Dispersion = 18.01 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

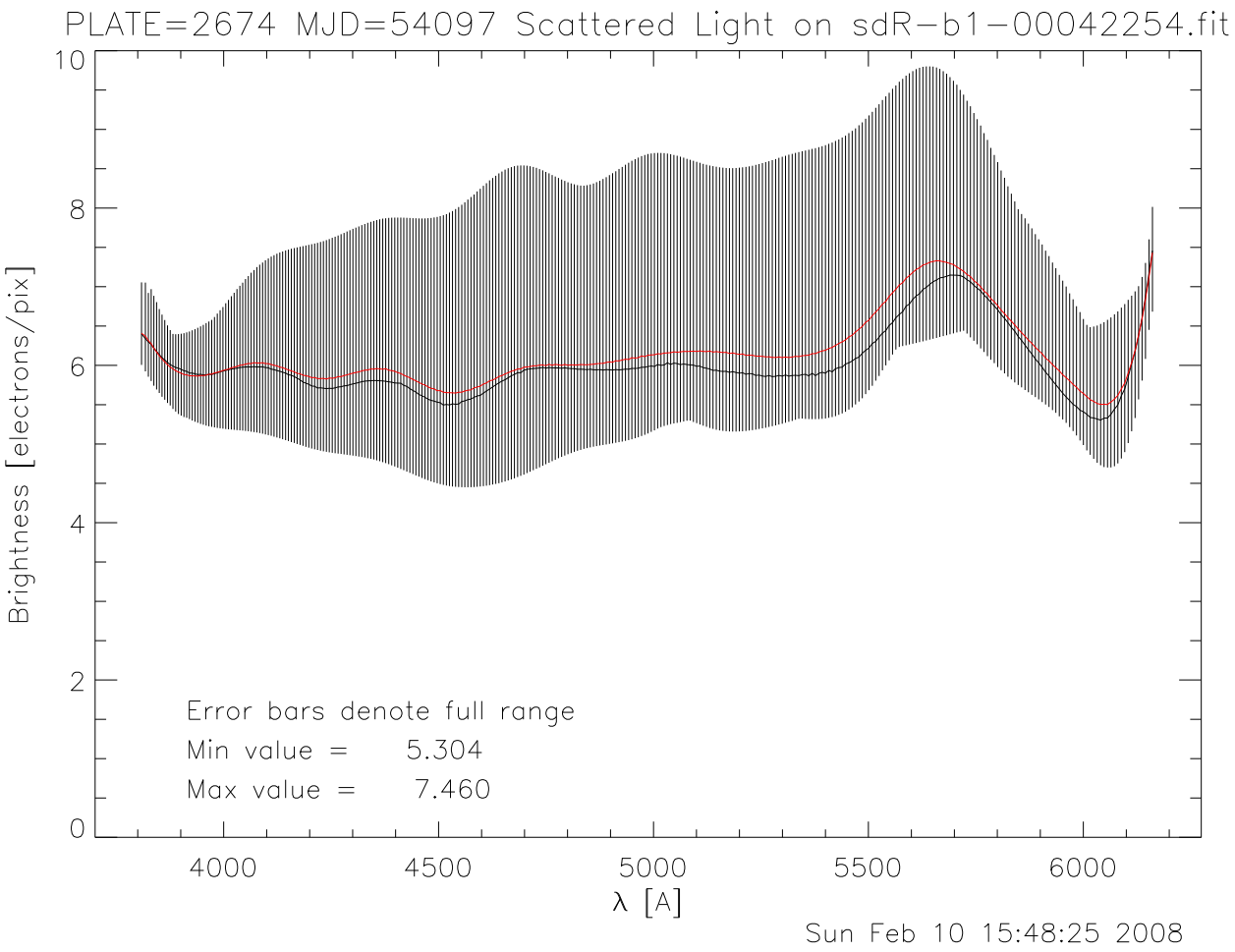

PLATE=2674 MJD=54097 sdR-b1-00042253.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.40 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

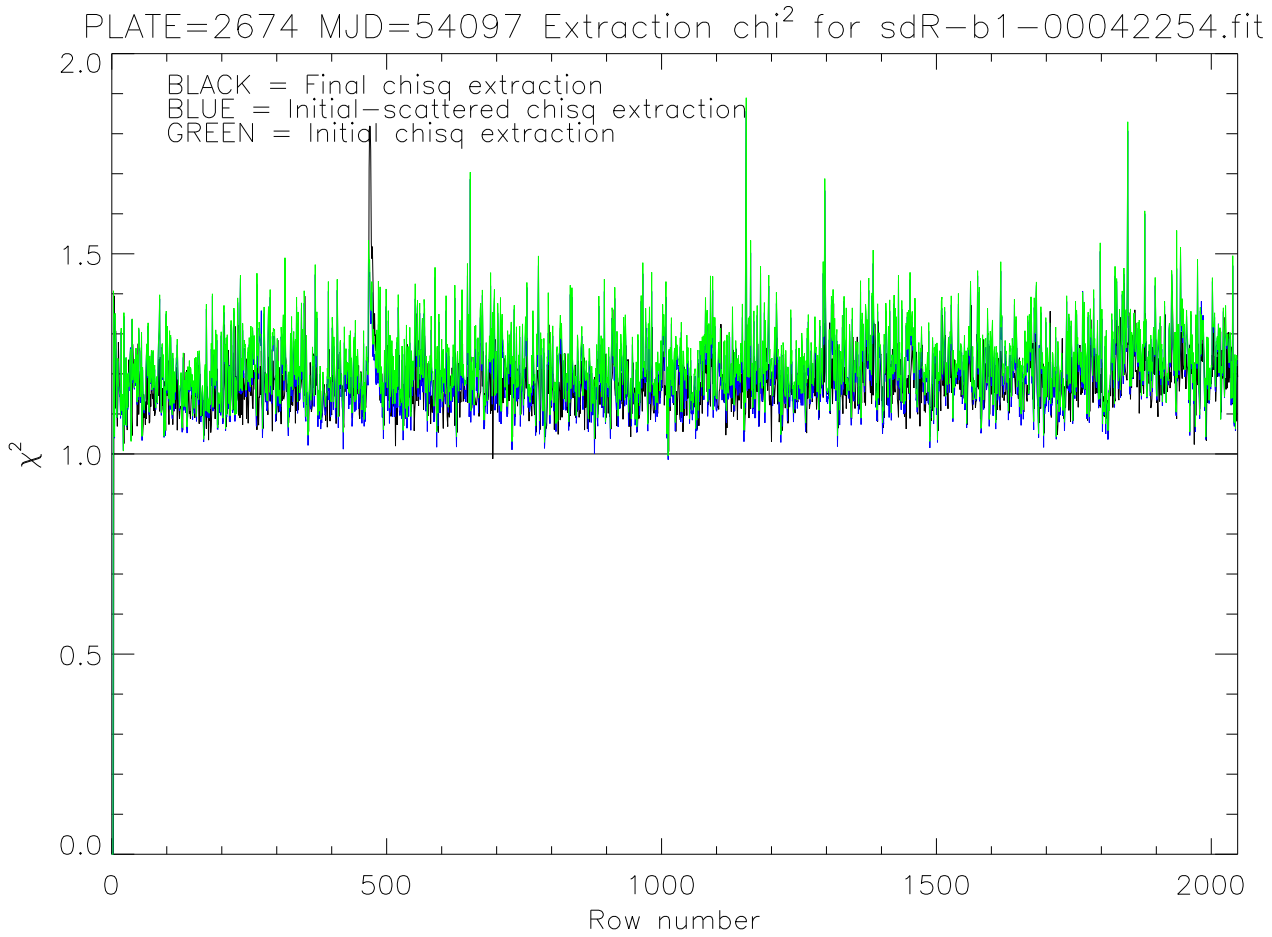

PLATE=2674 MJD=54097 Fiber-Flats for sdR-b1-00042256.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.376
Max value = 1.212
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sun Feb 10 15:44:13 2008

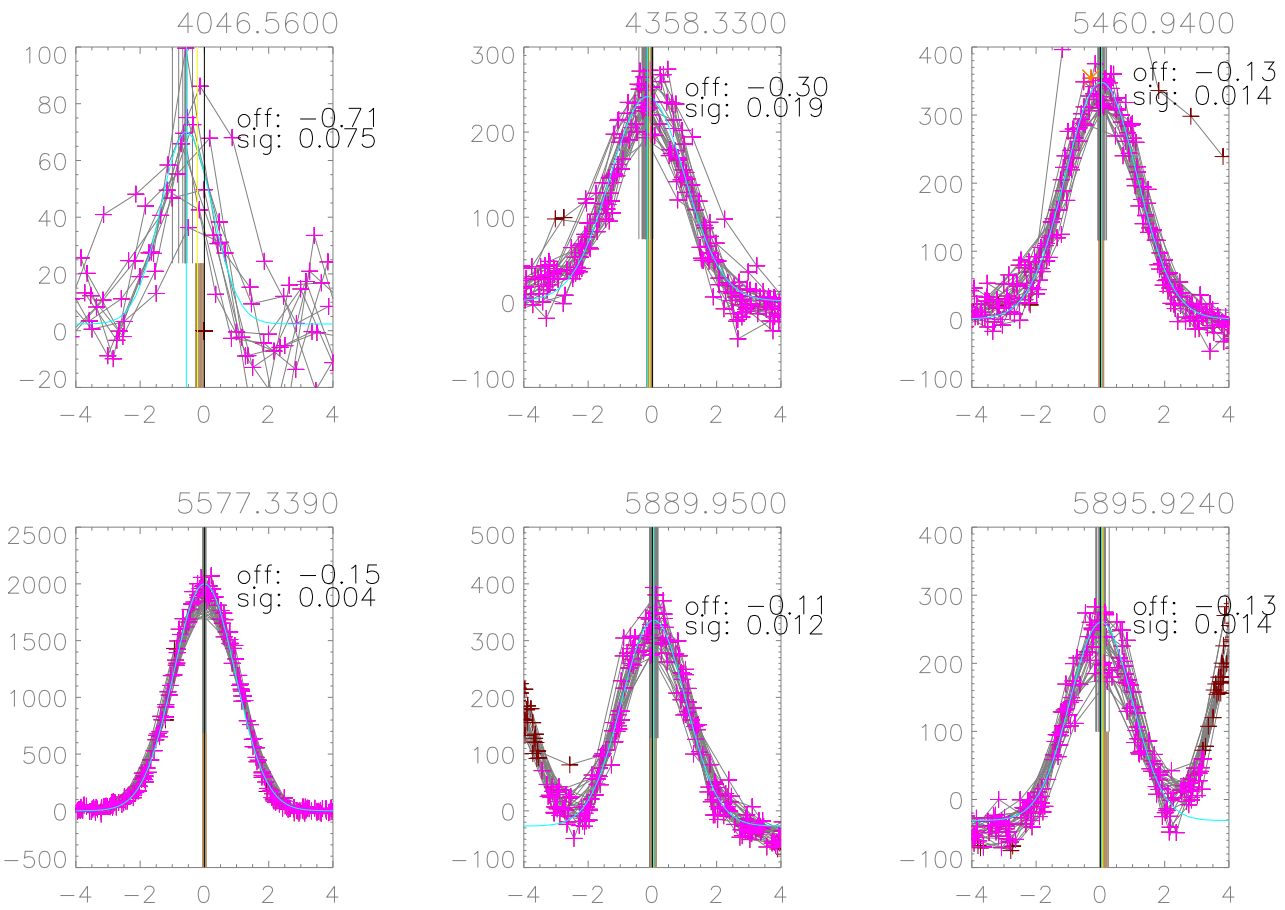

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR−b1−00042254.f
Y [pix]
X [pix]
0
500
1000
1500
2000
9.5
11.6
13.8

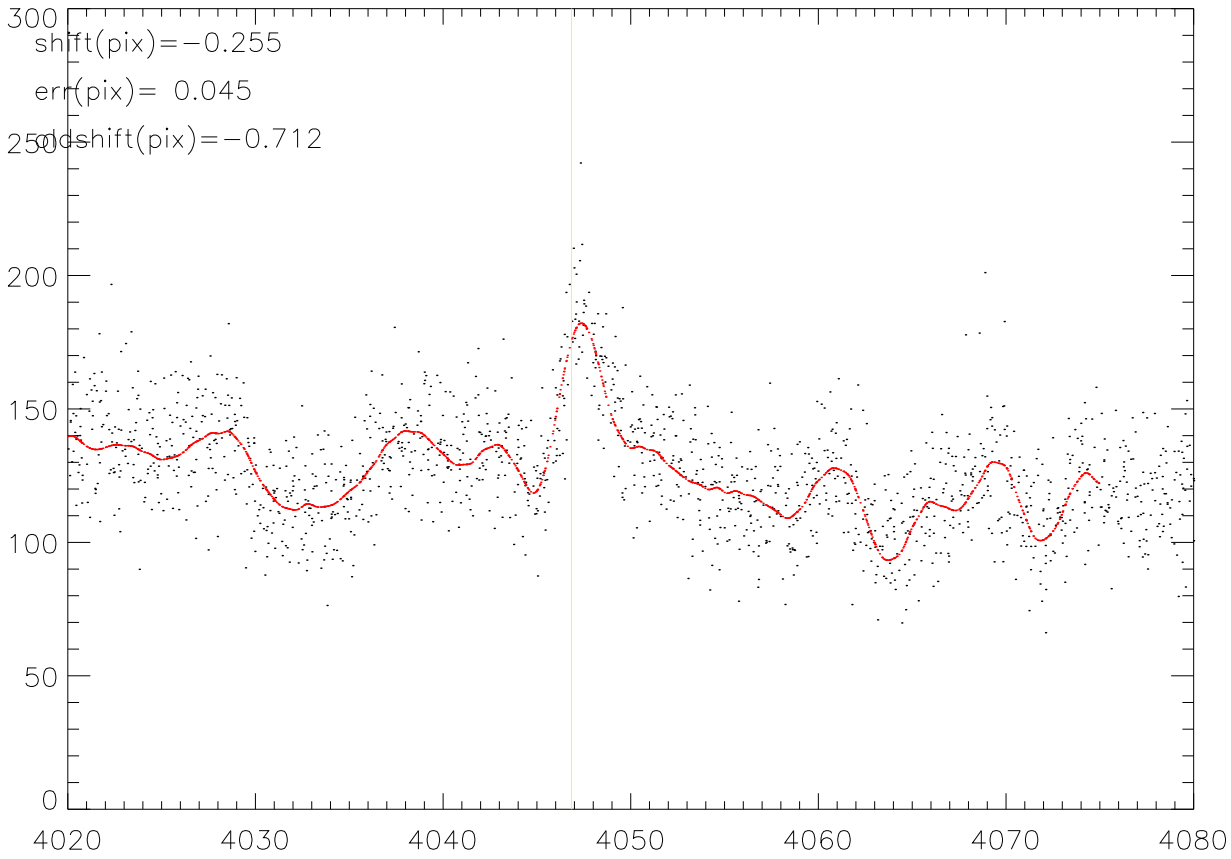

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR-b1-00042254.f
Brightness [electrons/pix]
15
10
5
0
Error bars denote full range
Min value = 8.583
Max value = 11.804
4000
4500
5000
5500
6000
λ [A]
Sun Feb 10 15:45:13 2008

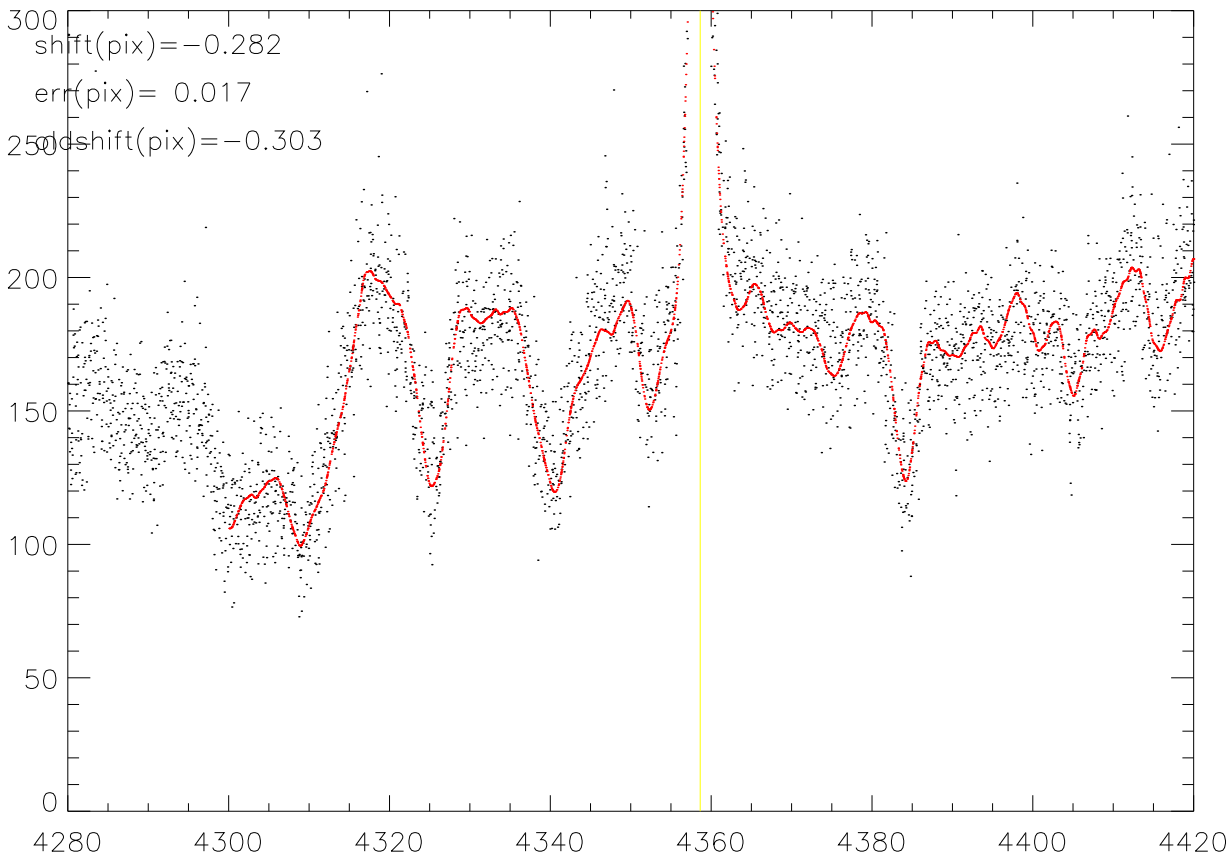

PLATE=2674 MJD=54097 Scattered Light on sdR-b1-00042254.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
5.64
6.73

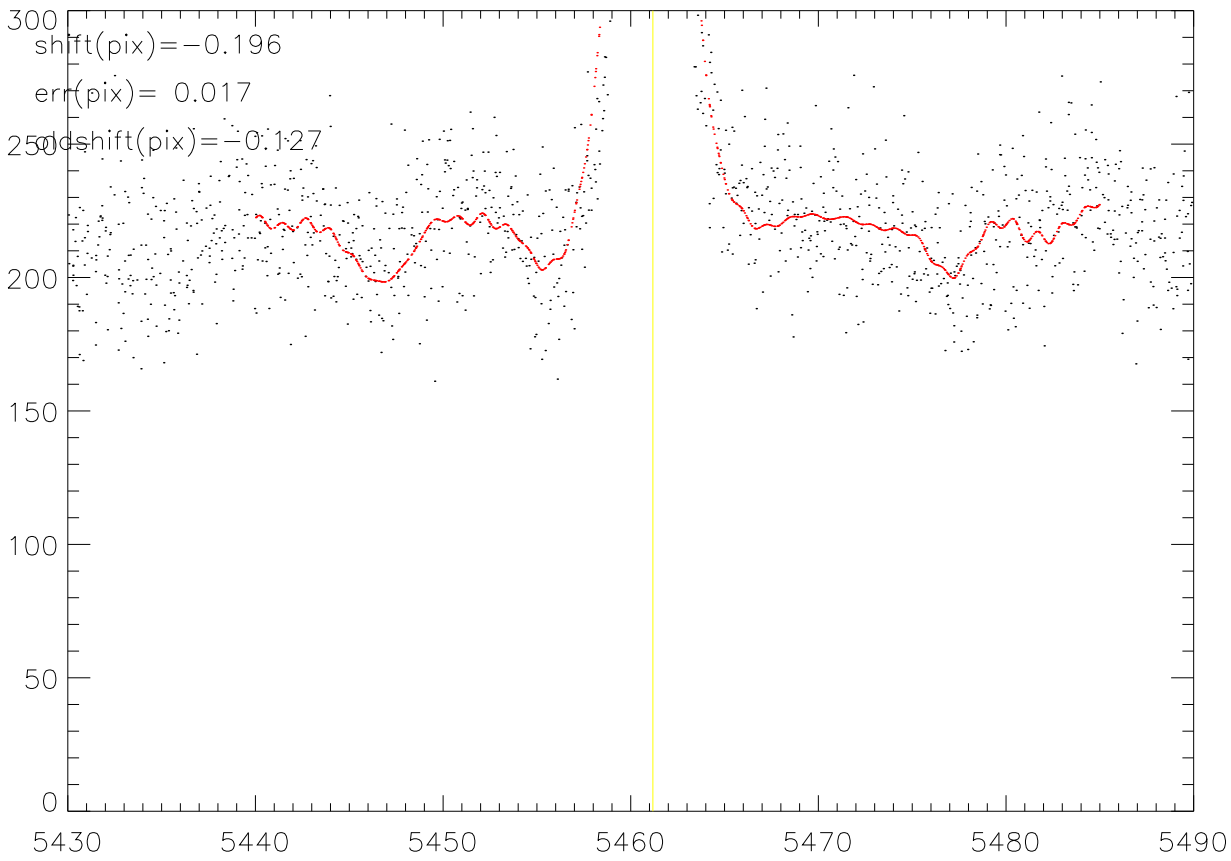

PLATE=2674 MJD=54097 Scattered Light on sdR-b1-00042254.fit
Brightness [electrons/pix]
10
8
6
4
2
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 5.304
Max value = 7.460
Sun Feb 10 15:48:25 2008

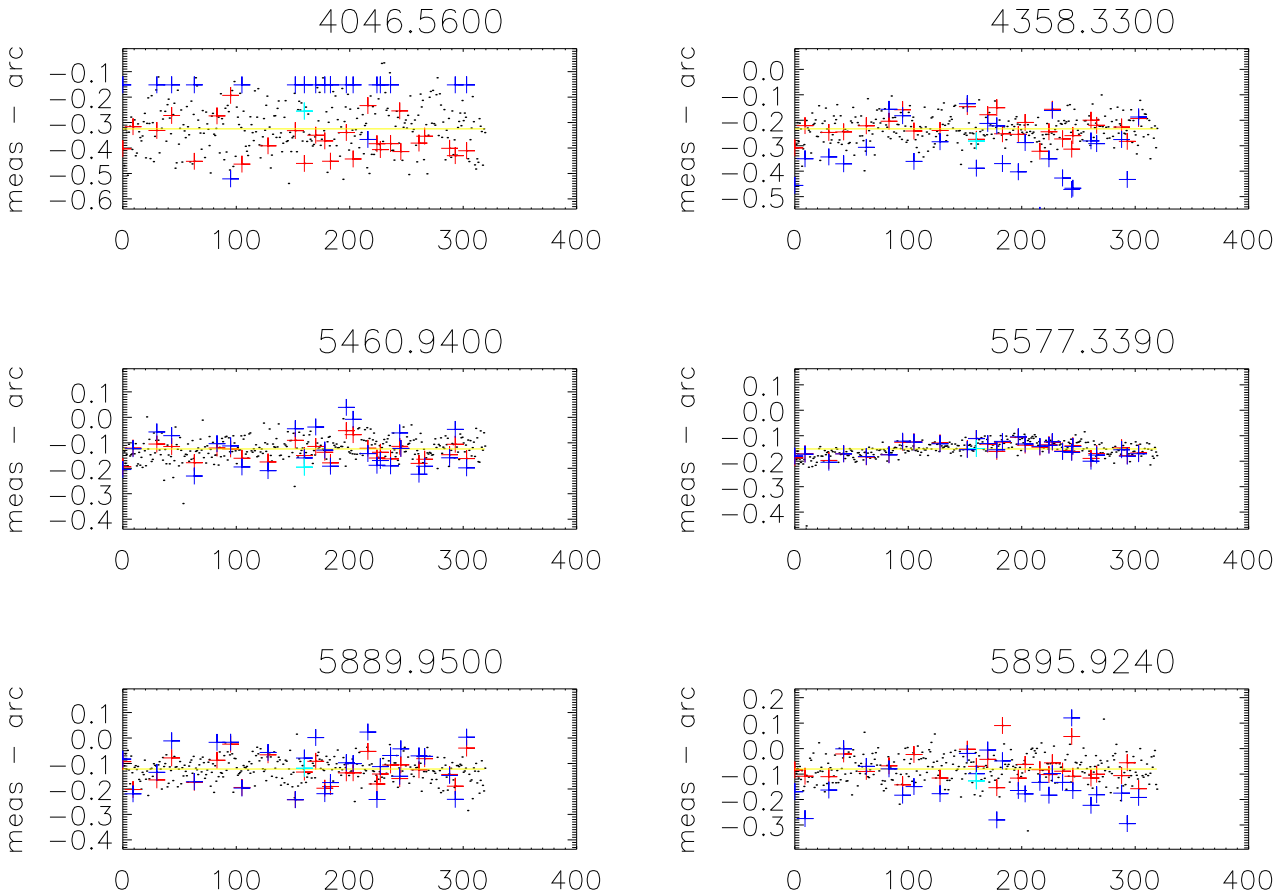

PLATE=2674 MJD=54097 Extraction chi^2 for sdR-b1-00042254.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

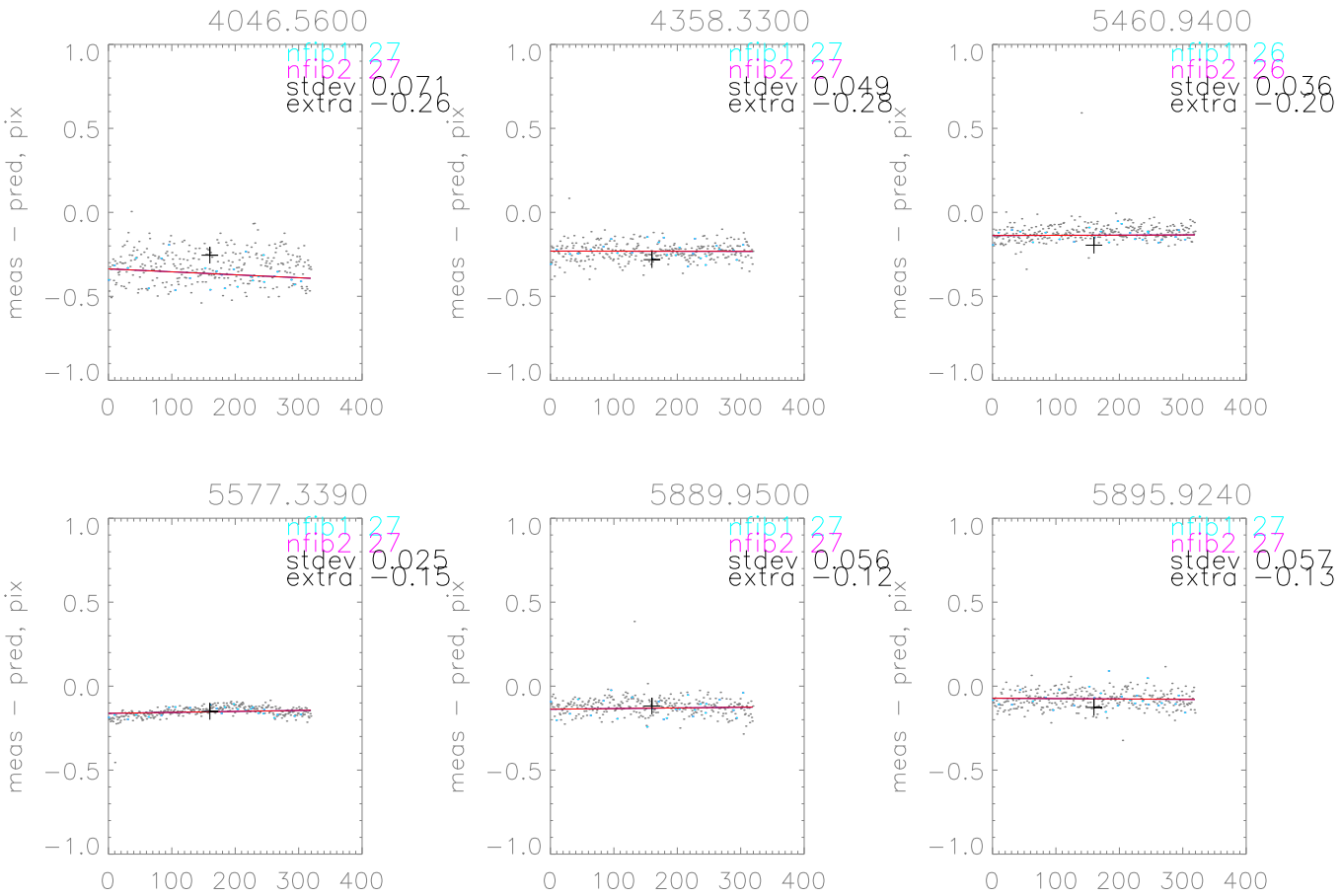

4046.5600
off: −0.71
sig: 0.075
4358.3300
off: −0.30
sig: 0.019
5460.9400
off: −0.13
sig: 0.014
5577.3390
off: −0.15
sig: 0.004
5889.9500
off: −0.11
sig: 0.012
5895.9240
off: −0.13
sig: 0.014

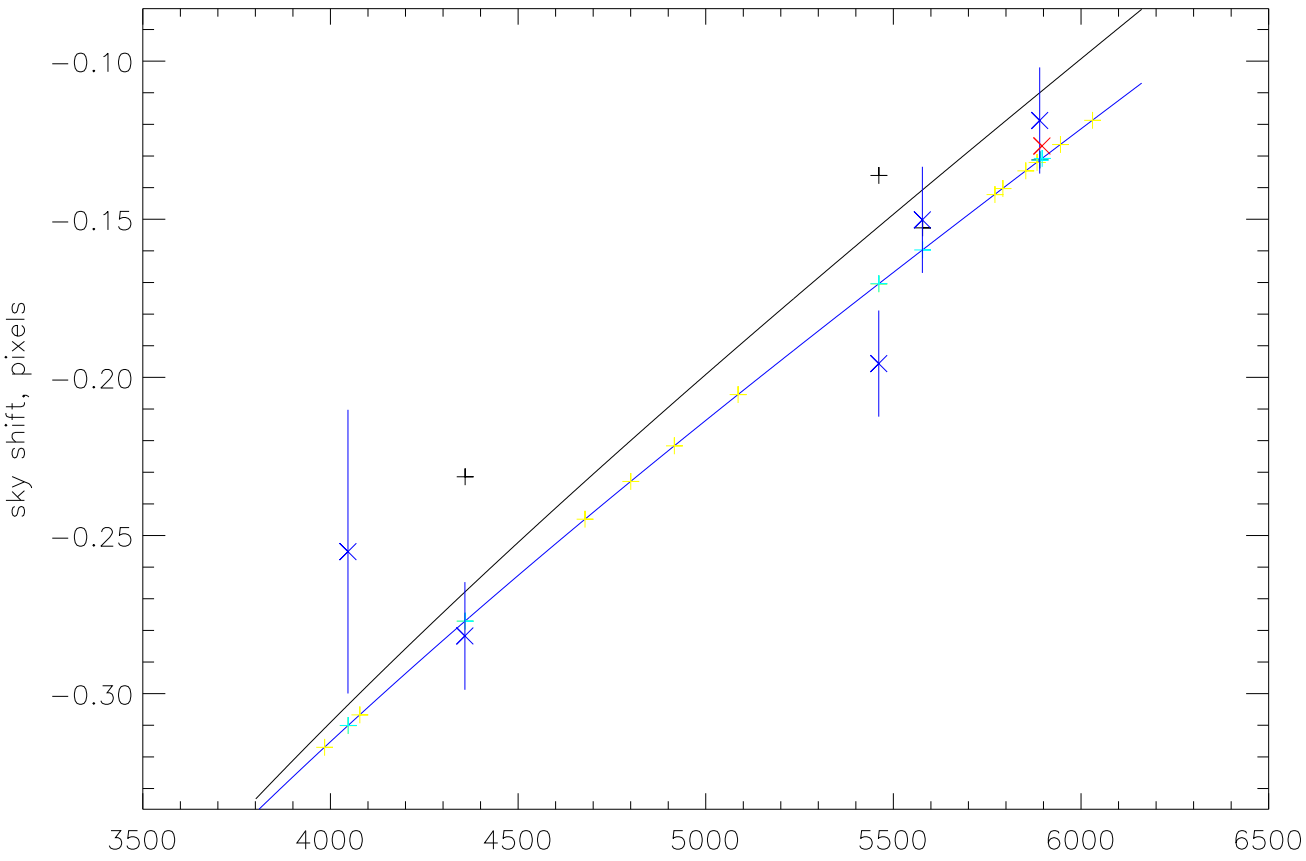

shift(pix)=−0.255
err(pix)= 0.045
oldshift(pix)=−0.712
300
250
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

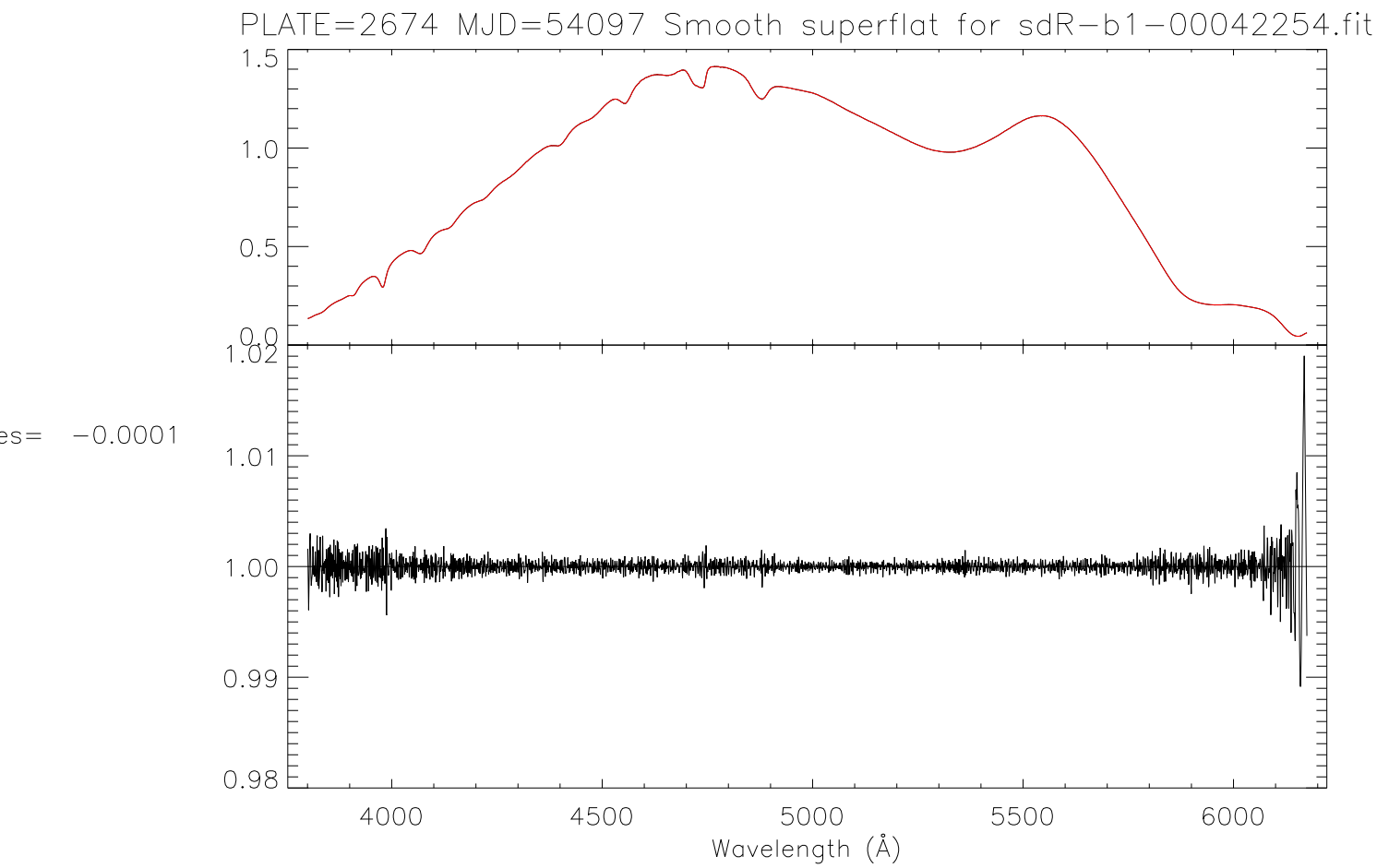

shift(pix)=−0.282
err(pix)= 0.017
oldshift(pix)=−0.303
300
250
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420


shift(pix)=−0.196
err(pix)= 0.017
oldshift(pix)=−0.127
300
250
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

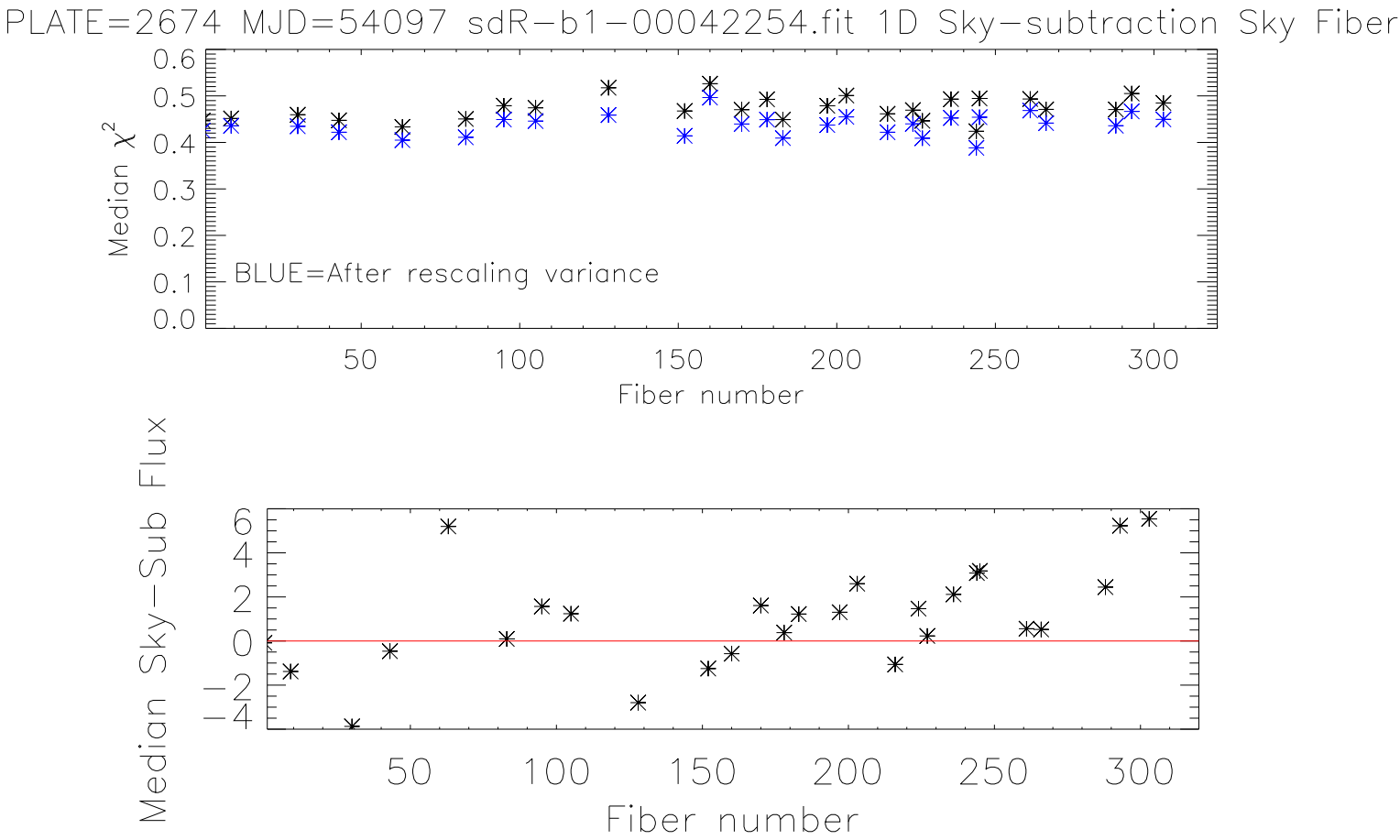

4046.5600
4358.3300
5460.9400
5577.3390
5889.9500
5895.9240
meas − arc
0
100
200
300
400

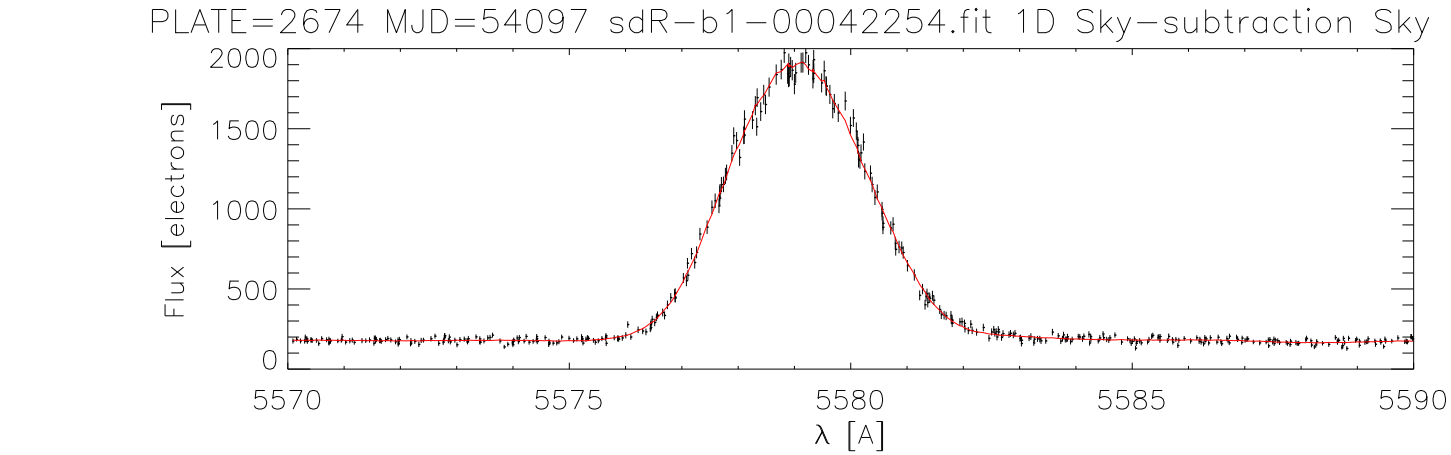

4046.5600
nfib1 27
nfib2 27
stdev 0.071
extra −0.26
4358.3300
nfib1 27
nfib2 27
stdev 0.049
extra −0.28
5460.9400
nfib1 26
nfib2 26
stdev 0.036
extra −0.20
5577.3390
nfib1 27
nfib2 27
stdev 0.025
extra −0.15
5889.9500
nfib1 27
nfib2 27
stdev 0.056
extra −0.12
5895.9240
nfib1 27
nfib2 27
stdev 0.057
extra −0.13
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

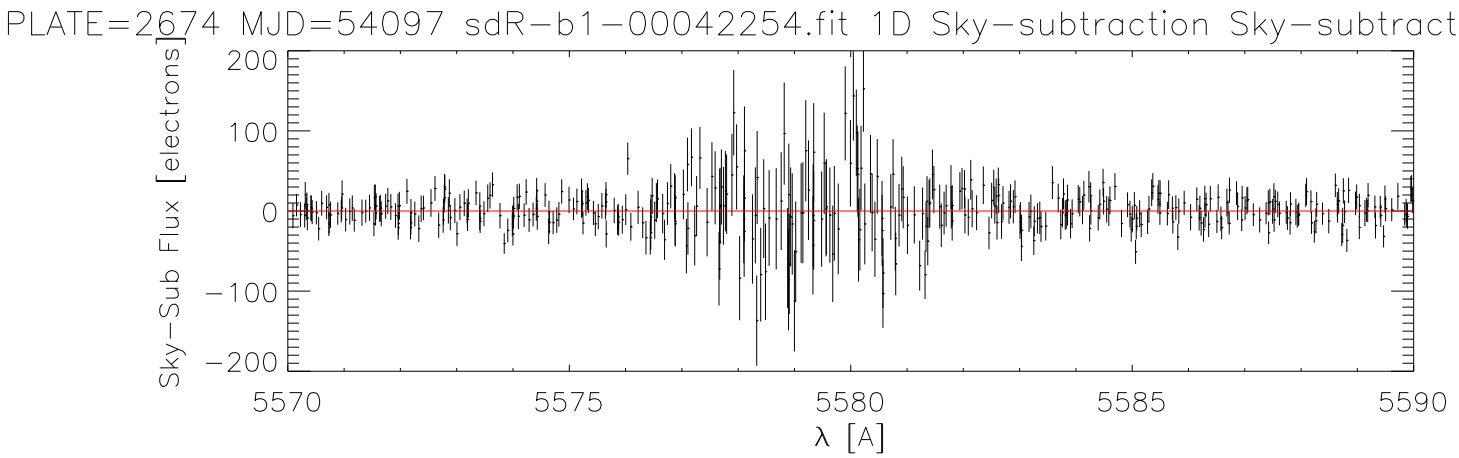

−0.10
−0.15
−0.20
−0.25
−0.30
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

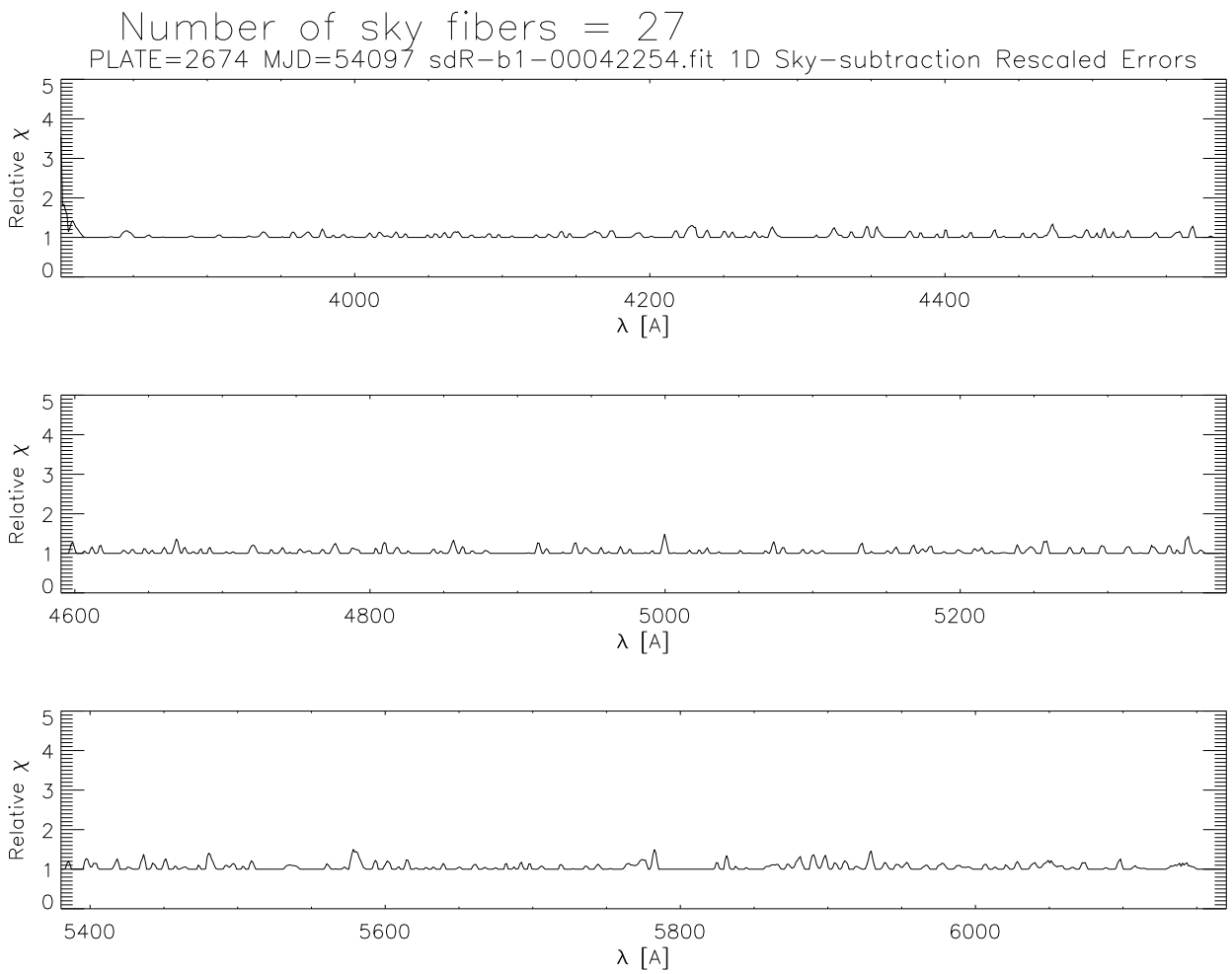

PLATE=2674 MJD=54097 Smooth superflat for sdR-b1-00042254.fit
1.5
1.0
0.5
0.0
1.02
1.01
1.00
0.99
0.98
4000
4500
5000
5500
6000
Wavelength (Å)

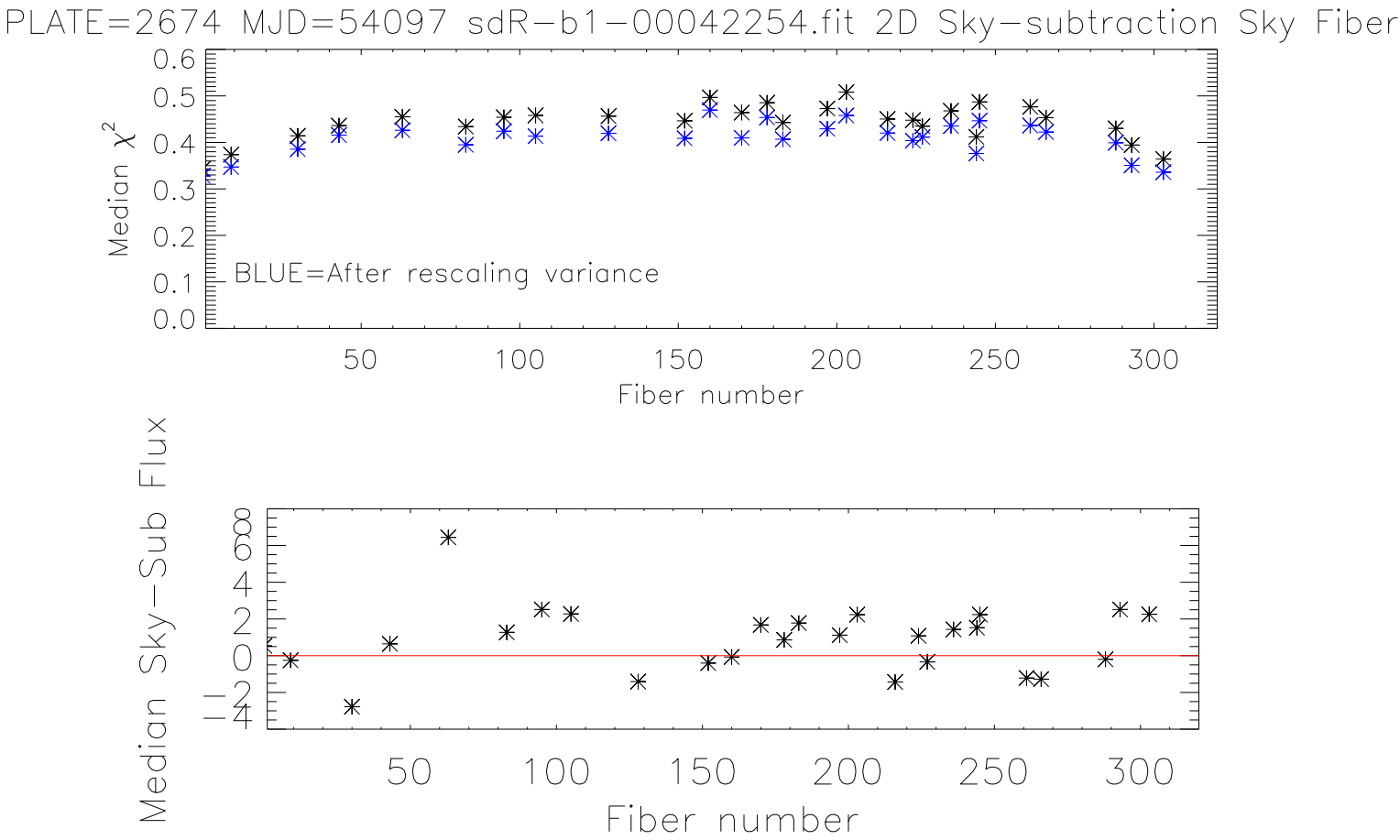
es= −0.0001

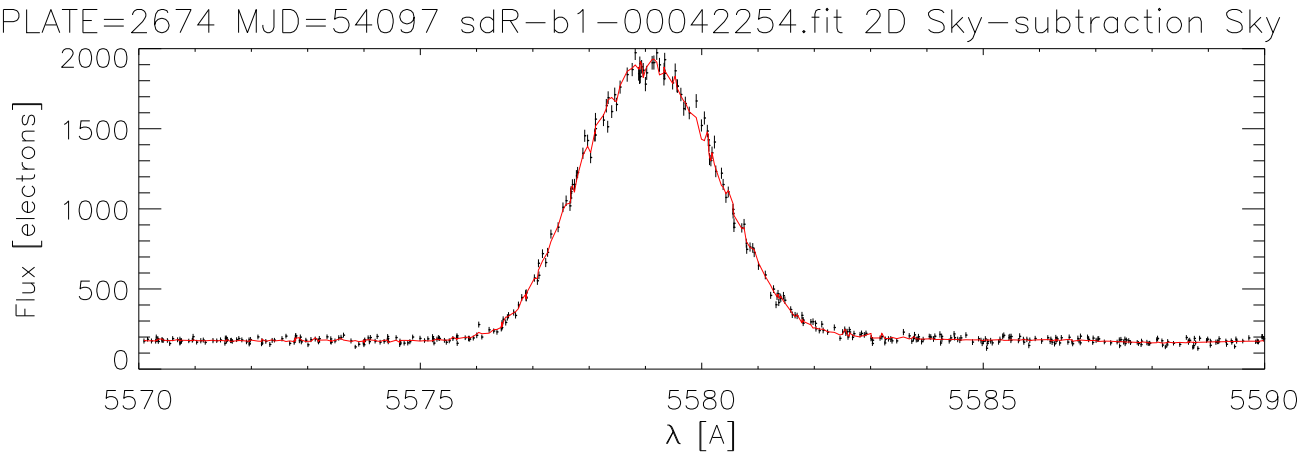

PLATE=2674 MJD=54097 sdR-b1-00042254.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

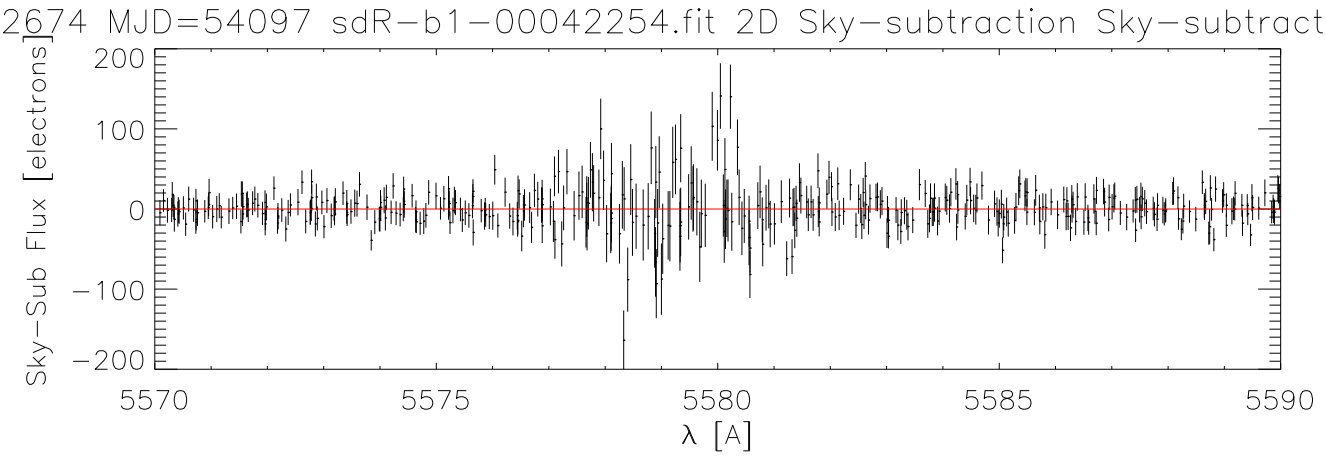

PLATE=2674 MJD=54097 sdR-b1-00042254.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

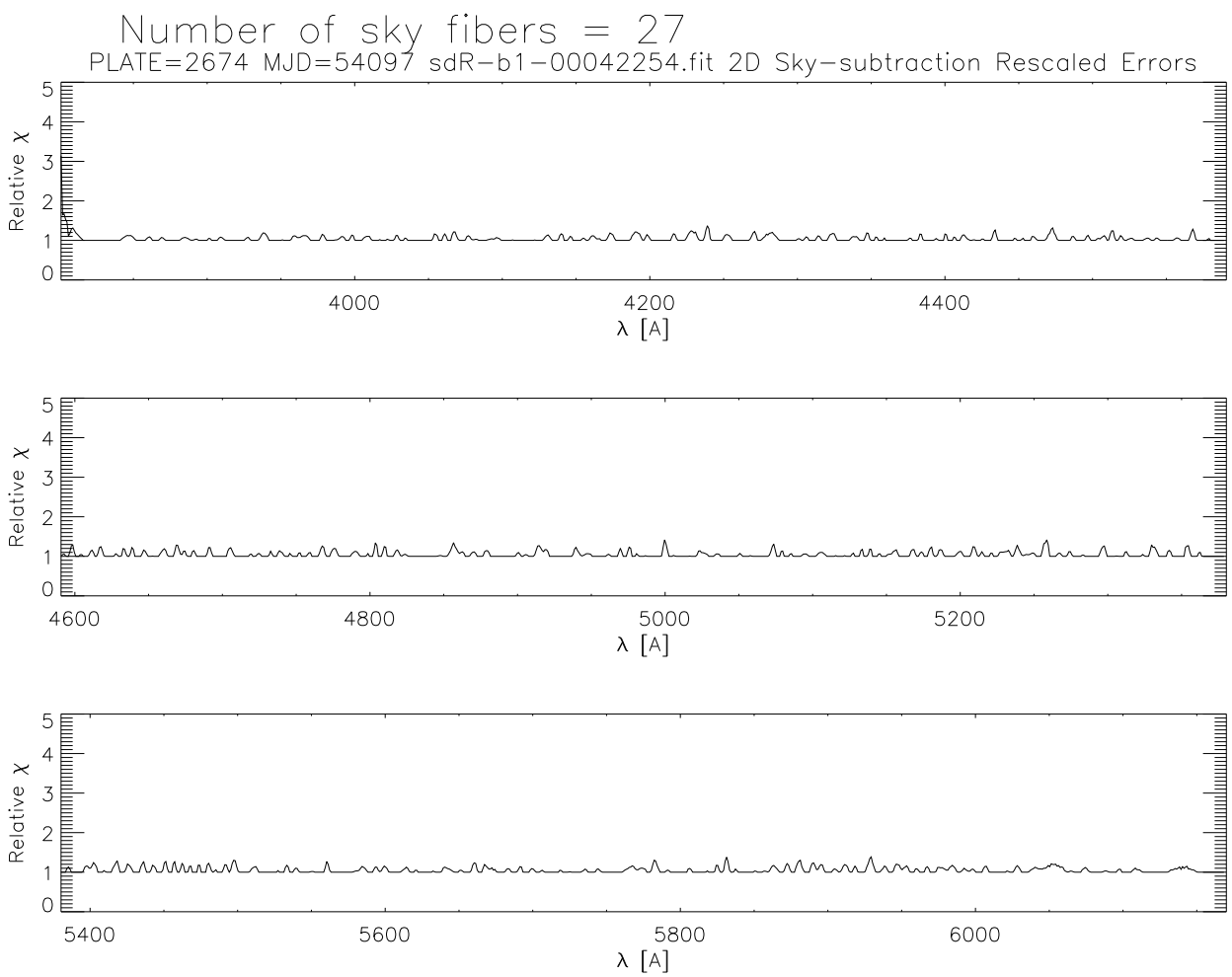

PLATE=2674 MJD=54097 sdR-b1-00042254.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

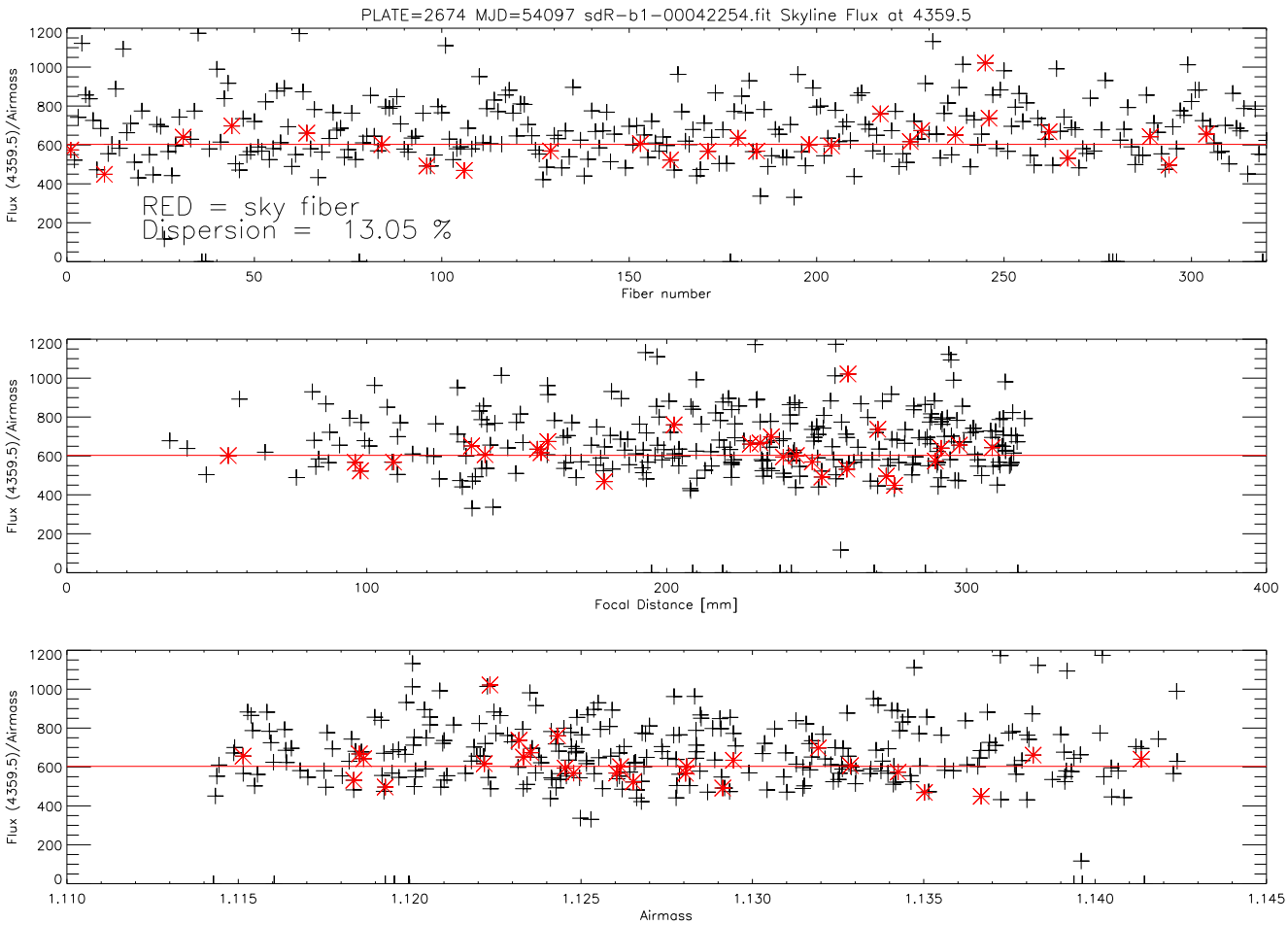

Number of sky fibers = 27
PLATE=2674 MJD=54097 sdR-b1-00042254.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

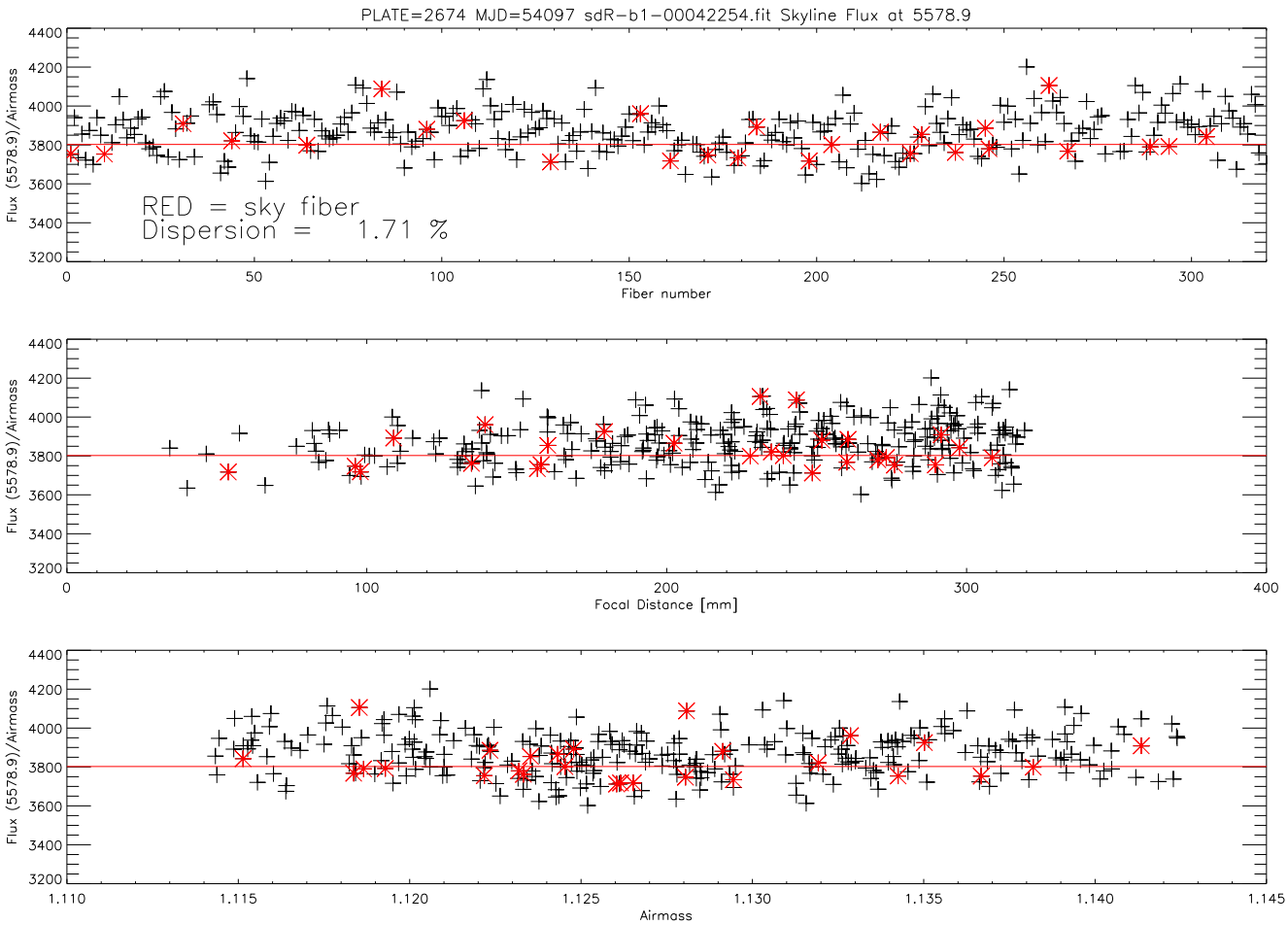

PLATE=2674 MJD=54097 sdR-b1-00042254.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

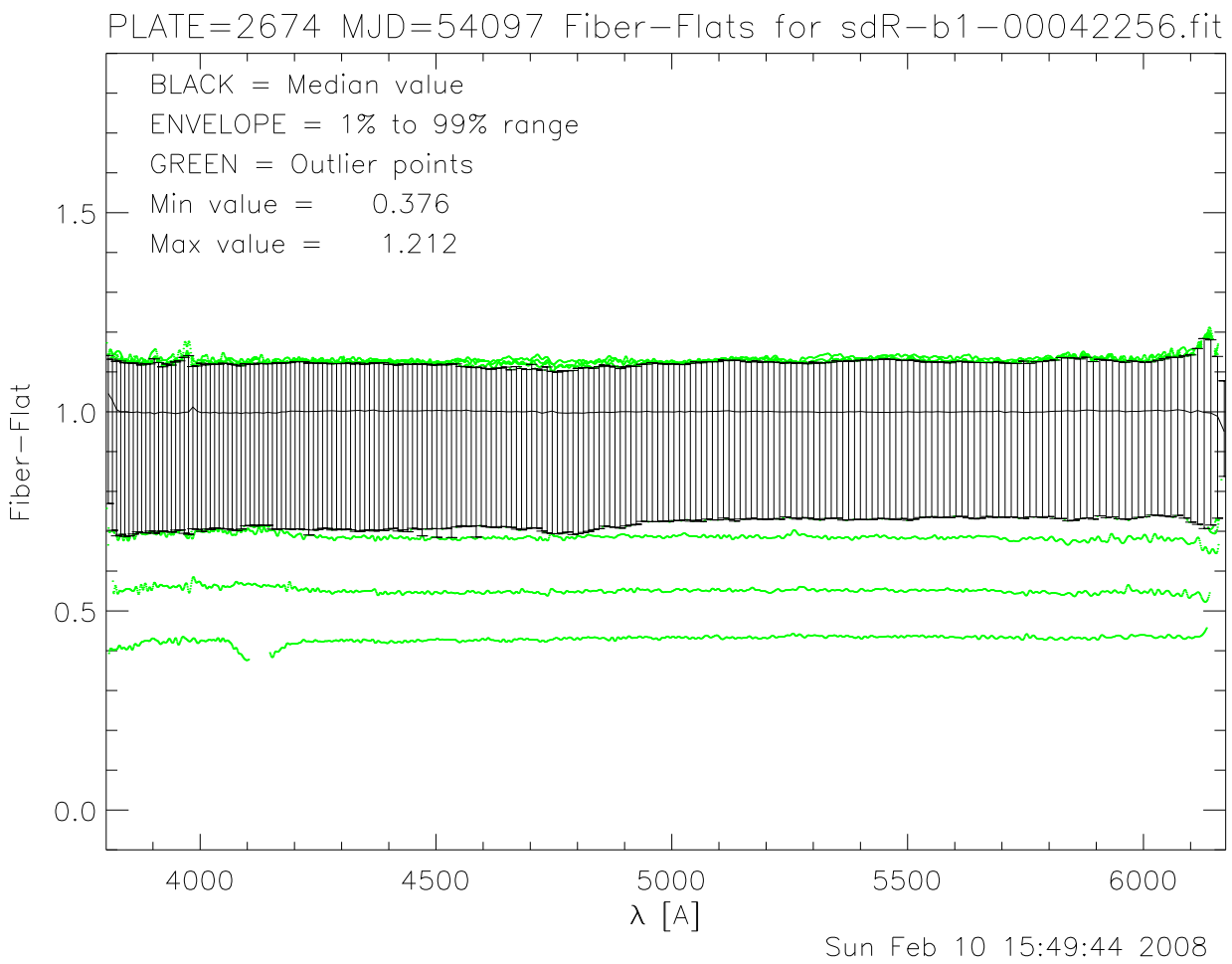

PLATE=2674 MJD=54097 sdR-b1-00042254.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

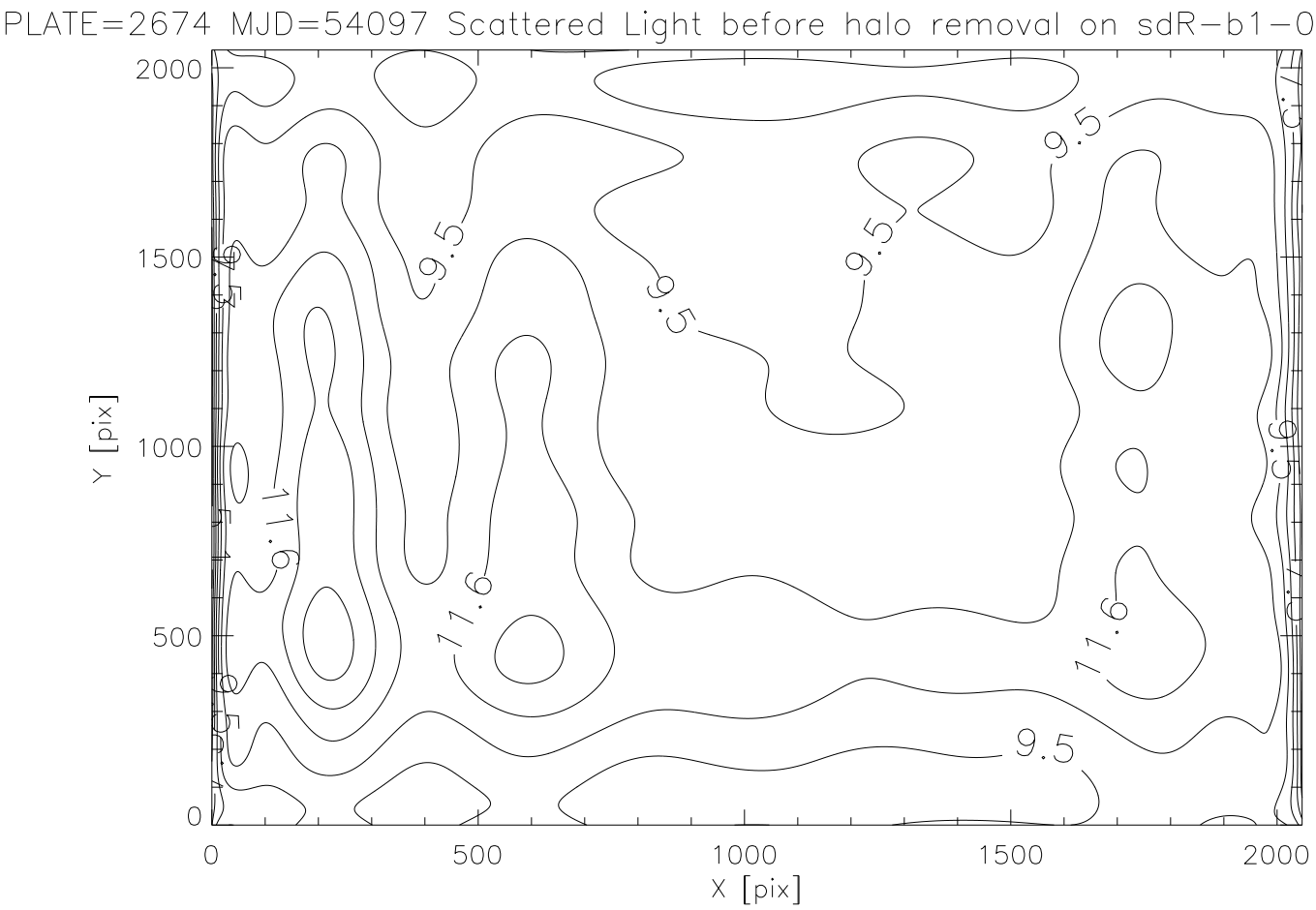

PLATE=2674 MJD=54097 sdR-b1-00042254.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

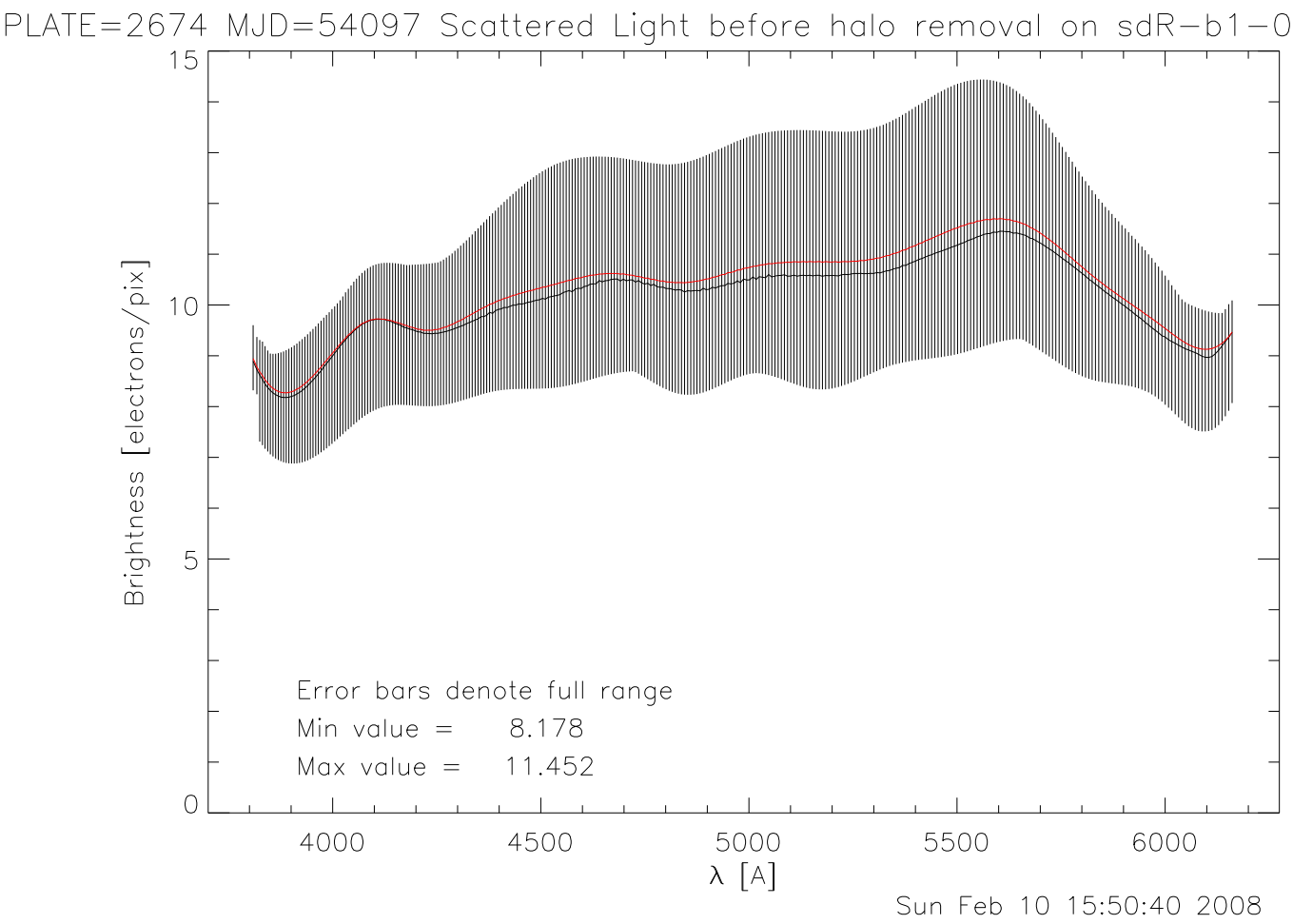

Number of sky fibers = 27
PLATE=2674 MJD=54097 sdR-b1-00042254.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

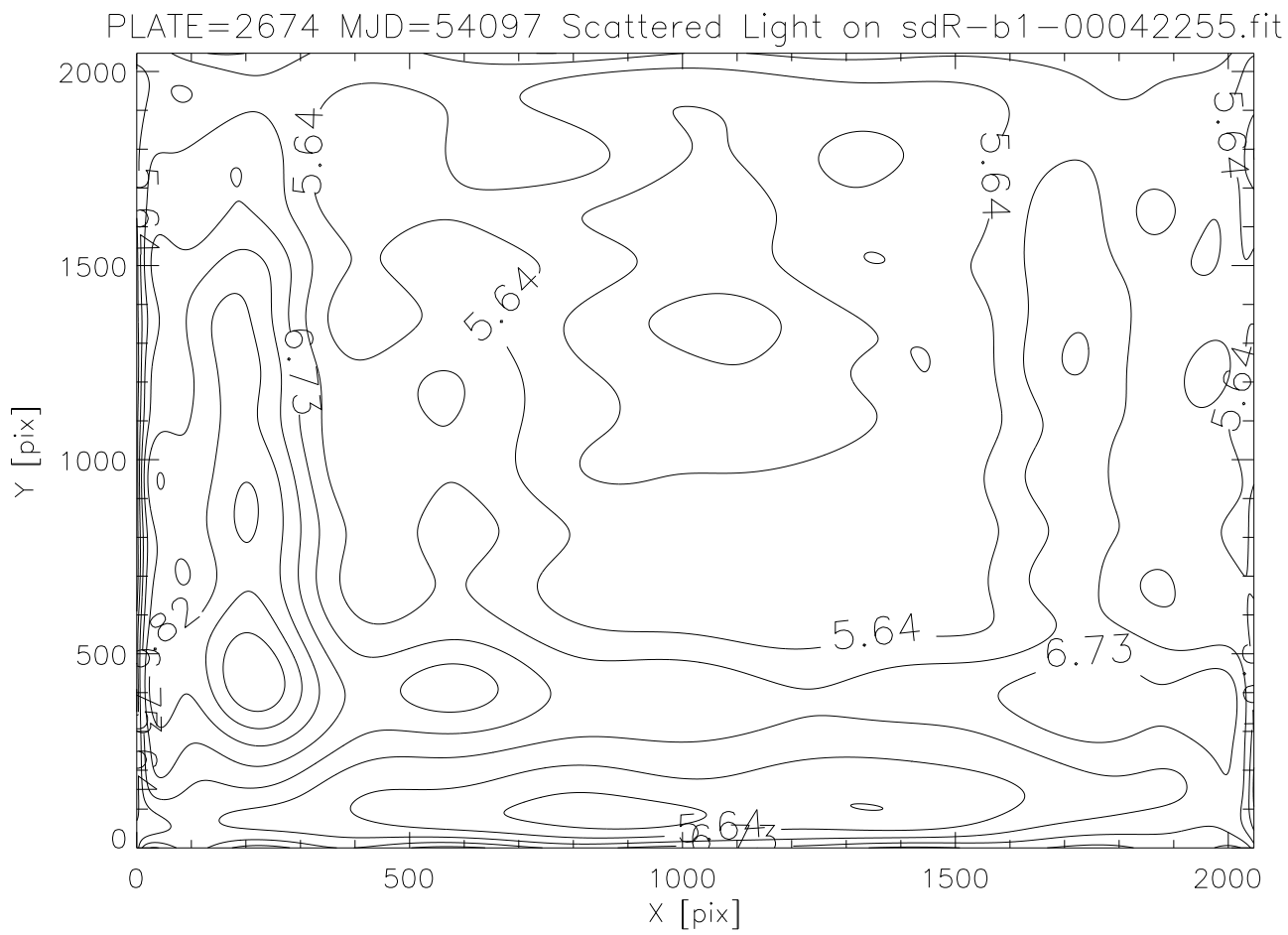

PLATE=2674 MJD=54097 sdR-b1-00042254.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 13.05 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

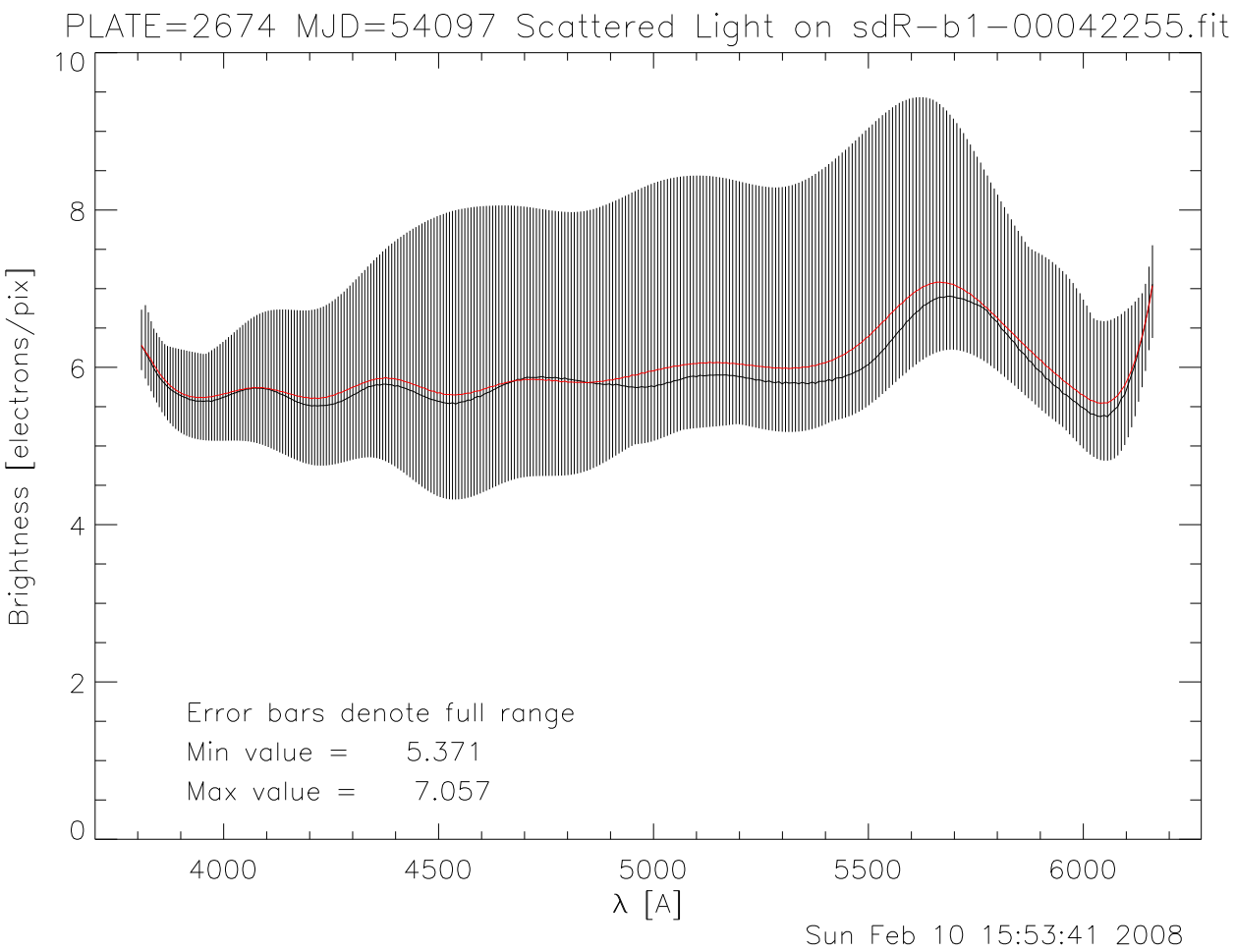

PLATE=2674 MJD=54097 sdR-b1-00042254.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.71 %
Fiber number
Focal Distance [mm]
Airmass

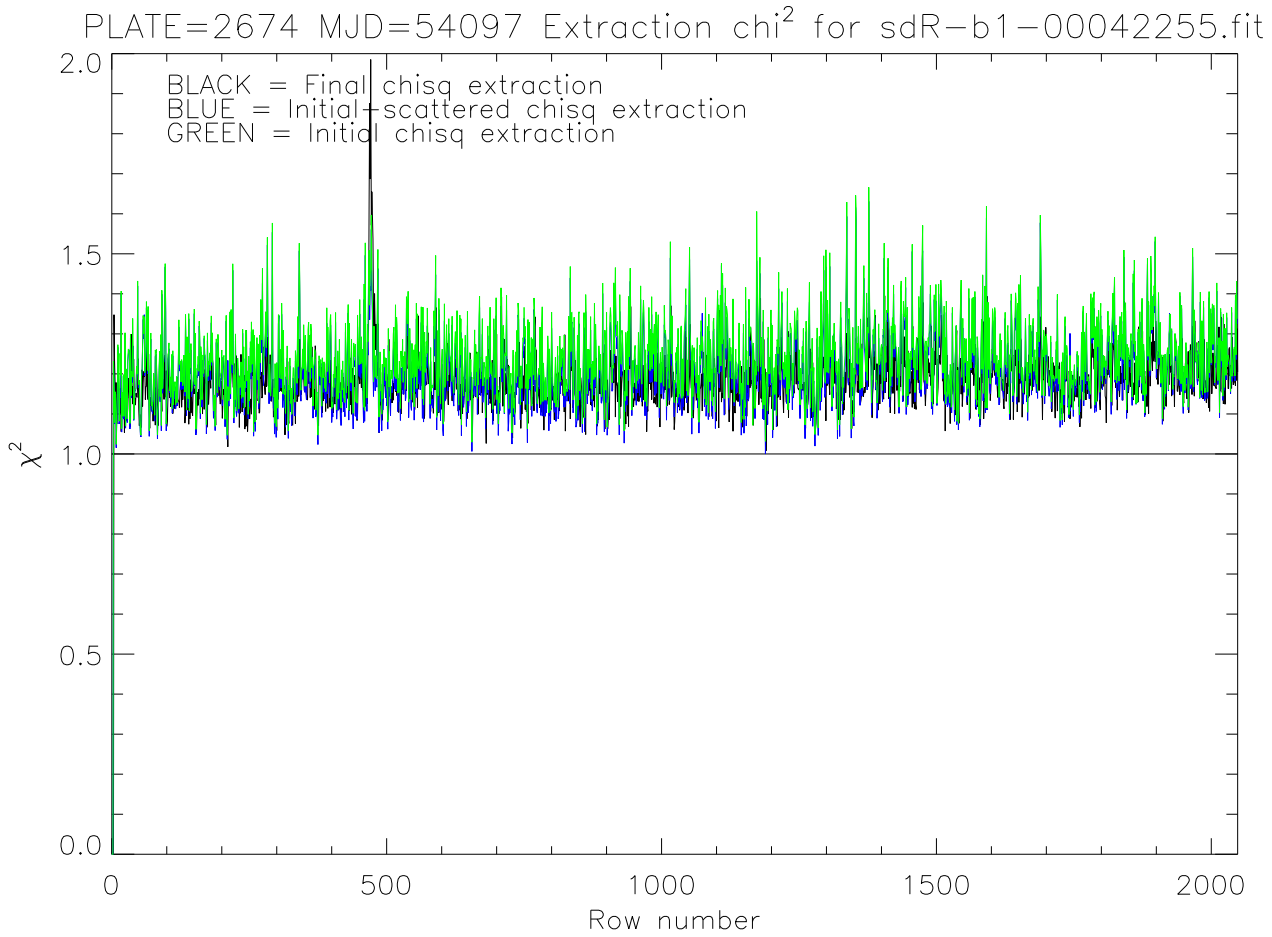

PLATE=2674 MJD=54097 Fiber-Flats for sdR-b1-00042256.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.376
Max value = 1.212
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sun Feb 10 15:49:44 2008

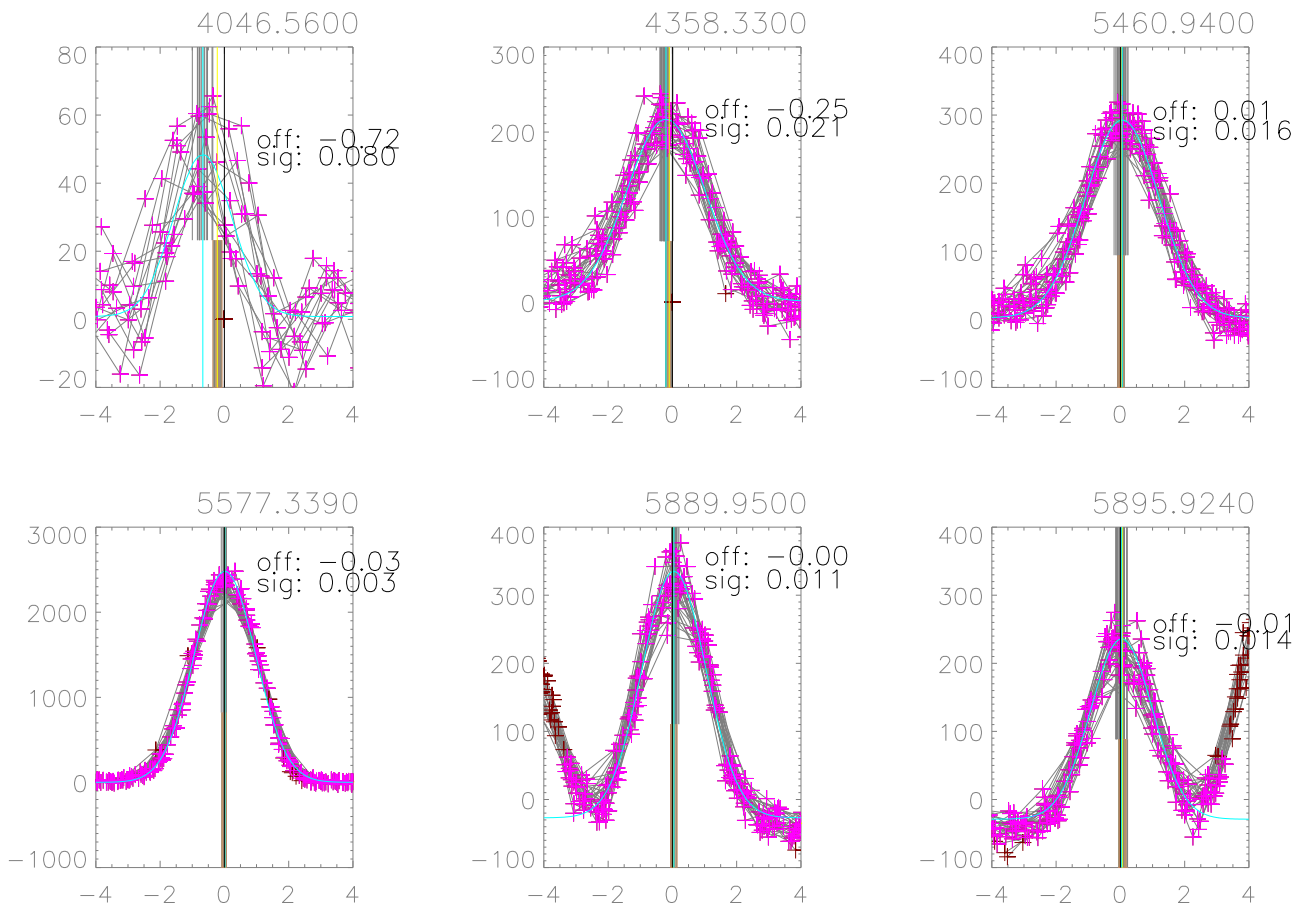

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR−b1−00042255.f
Y [pix]
X [pix]
0
500
1000
1500
2000
9.5
11.6

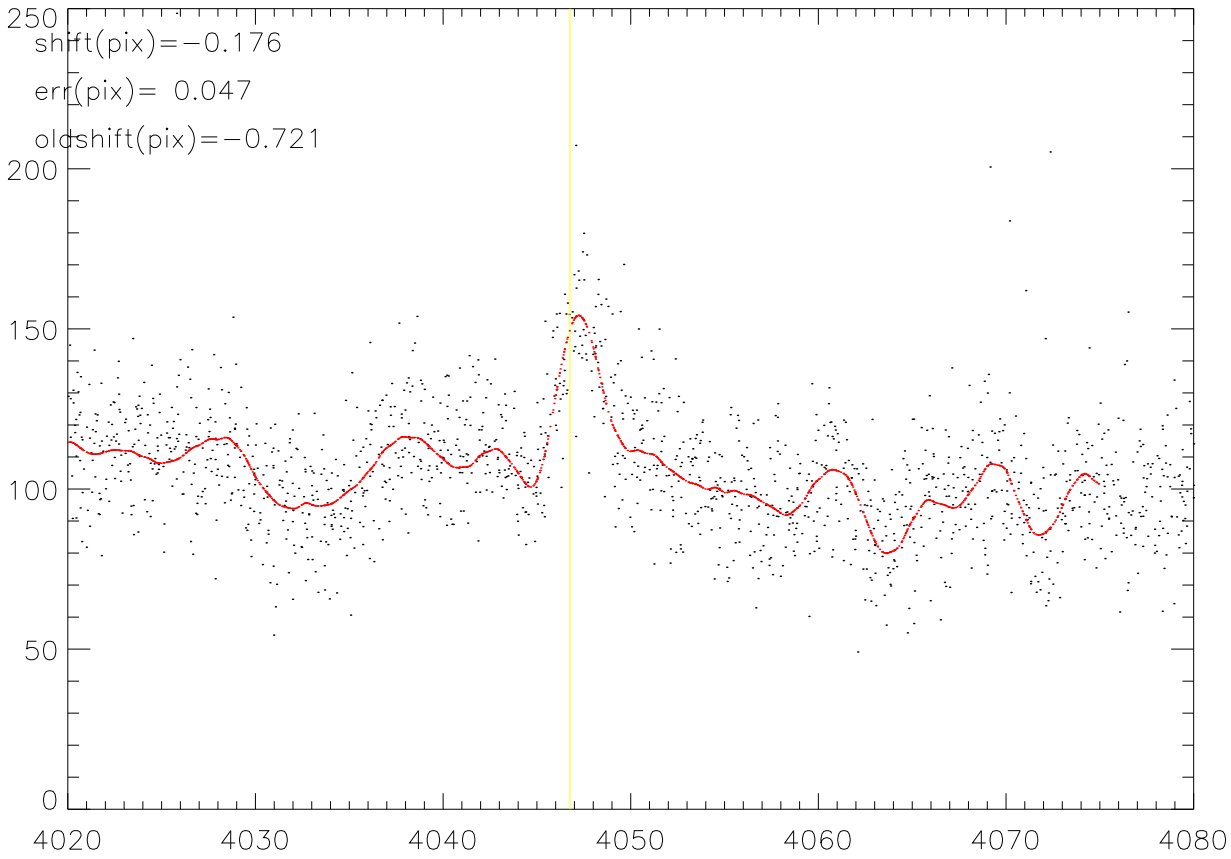

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR-b1-00042255.f
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 8.178
Max value = 11.452
Sun Feb 10 15:50:40 2008

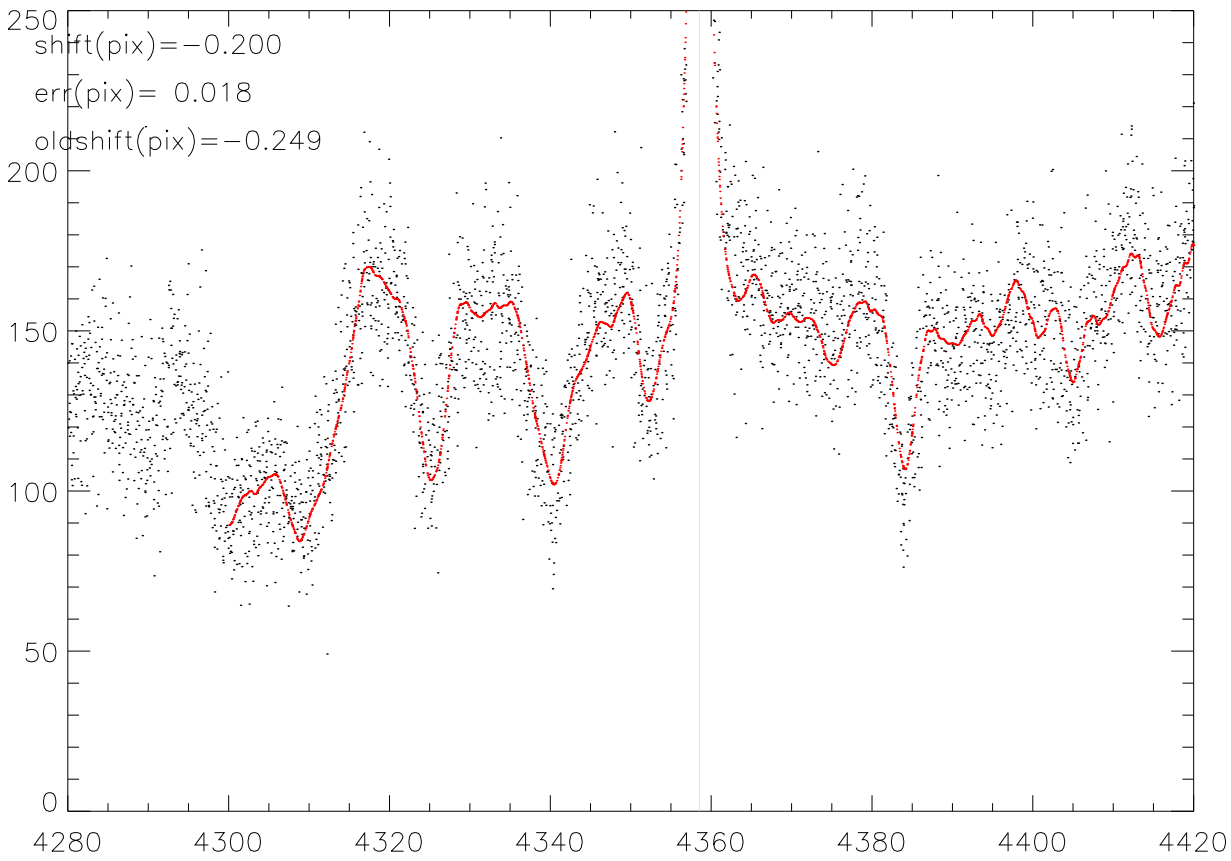

PLATE=2674 MJD=54097 Scattered Light on sdR-b1-00042255.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
5.64
6.73
5.82

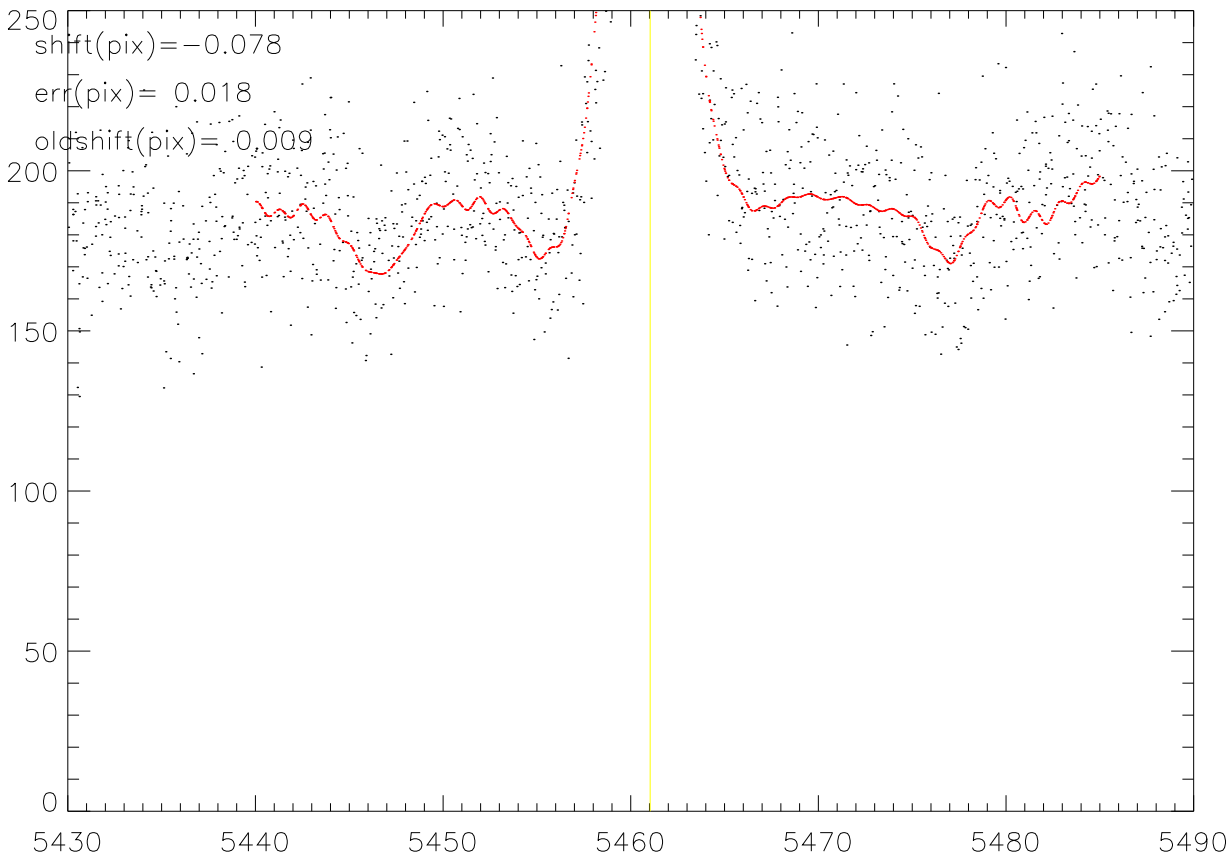

PLATE=2674 MJD=54097 Scattered Light on sdR-b1-00042255.fit
Brightness [electrons/pix]
10
8
6
4
2
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 5.371
Max value = 7.057
Sun Feb 10 15:53:41 2008

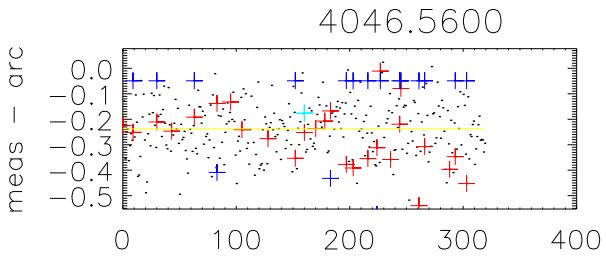

PLATE=2674 MJD=54097 Extraction chi^2 for sdR-b1-00042255.fit
BLACK = Final chisq extraction
BLUE = Initial+scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

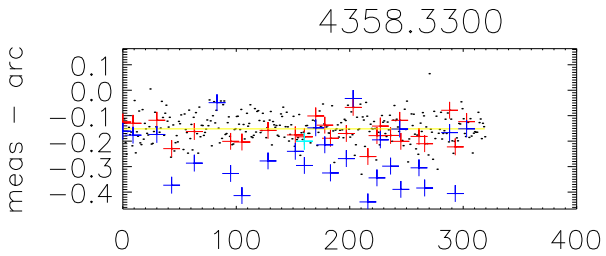

4046.5600
off: −0.72
sig: 0.080
4358.3300
off: −0.25
sig: 0.021
5460.9400
off: 0.01
sig: 0.016
5577.3390
off: −0.03
sig: 0.003
5889.9500
off: −0.00
sig: 0.011
5895.9240
off: −0.01
sig: 0.014

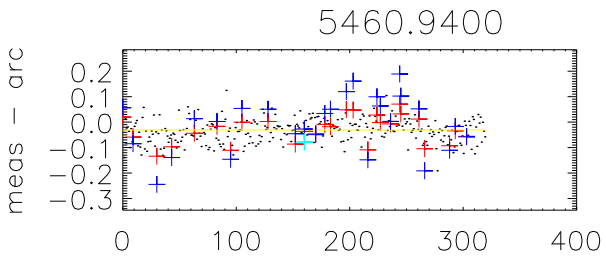

shift(pix)=−0.176
err(pix)= 0.047
oldshift(pix)=−0.721
250
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

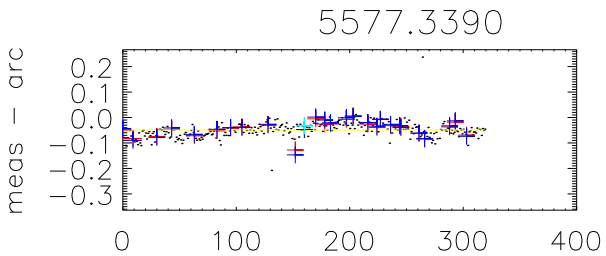

shift(pix)=−0.200
err(pix)= 0.018
oldshift(pix)=−0.249
250
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

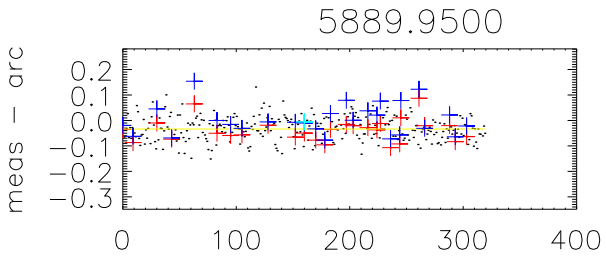

shift(pix)=−0.078
err(pix)= 0.018
oldshift(pix)= 0.009
250
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

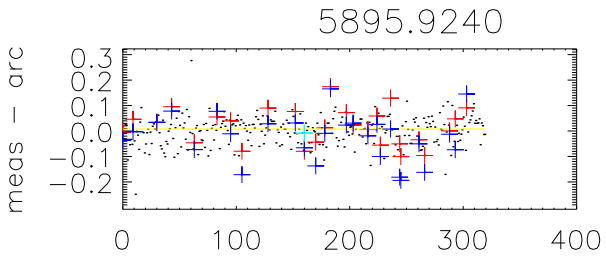

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

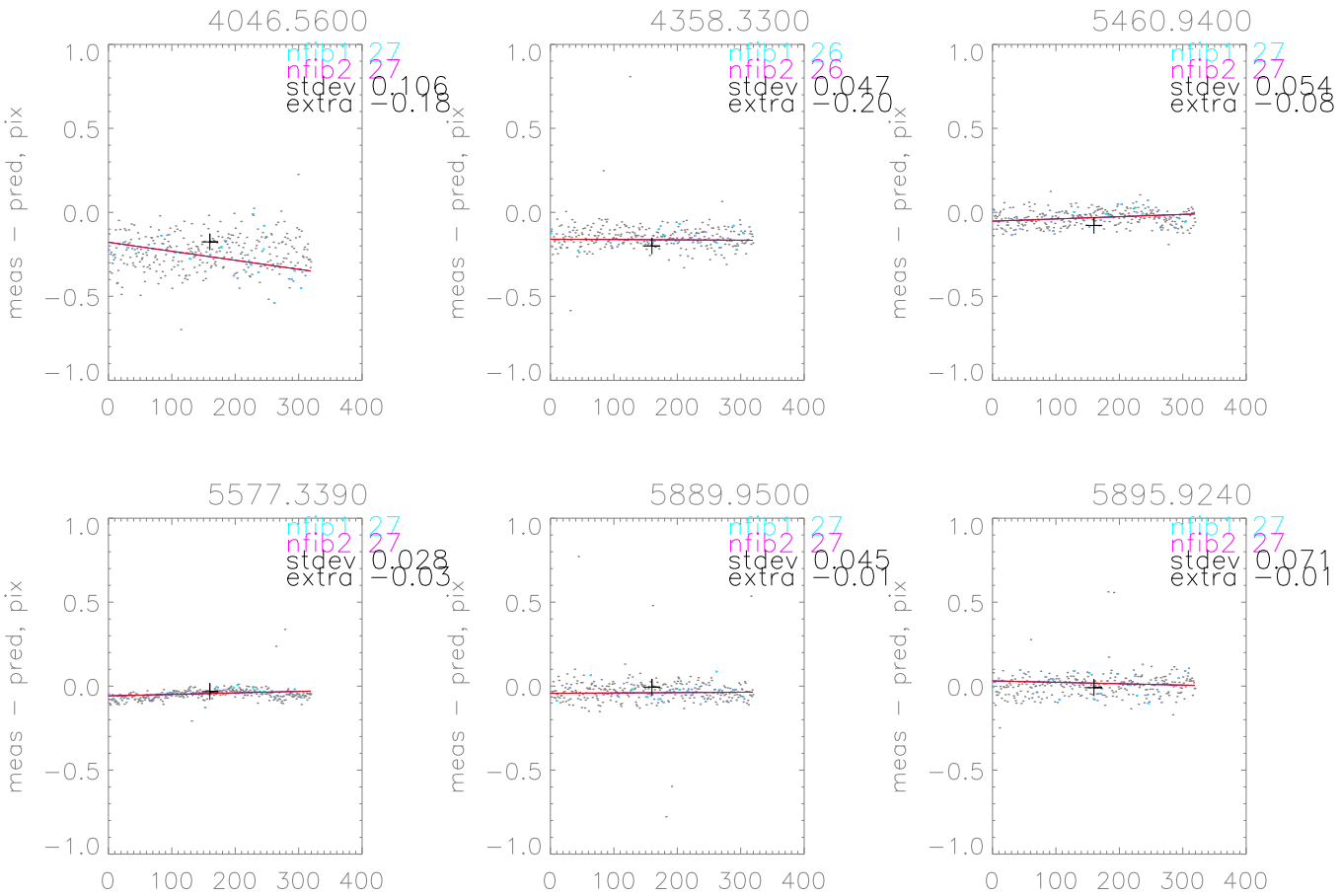

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

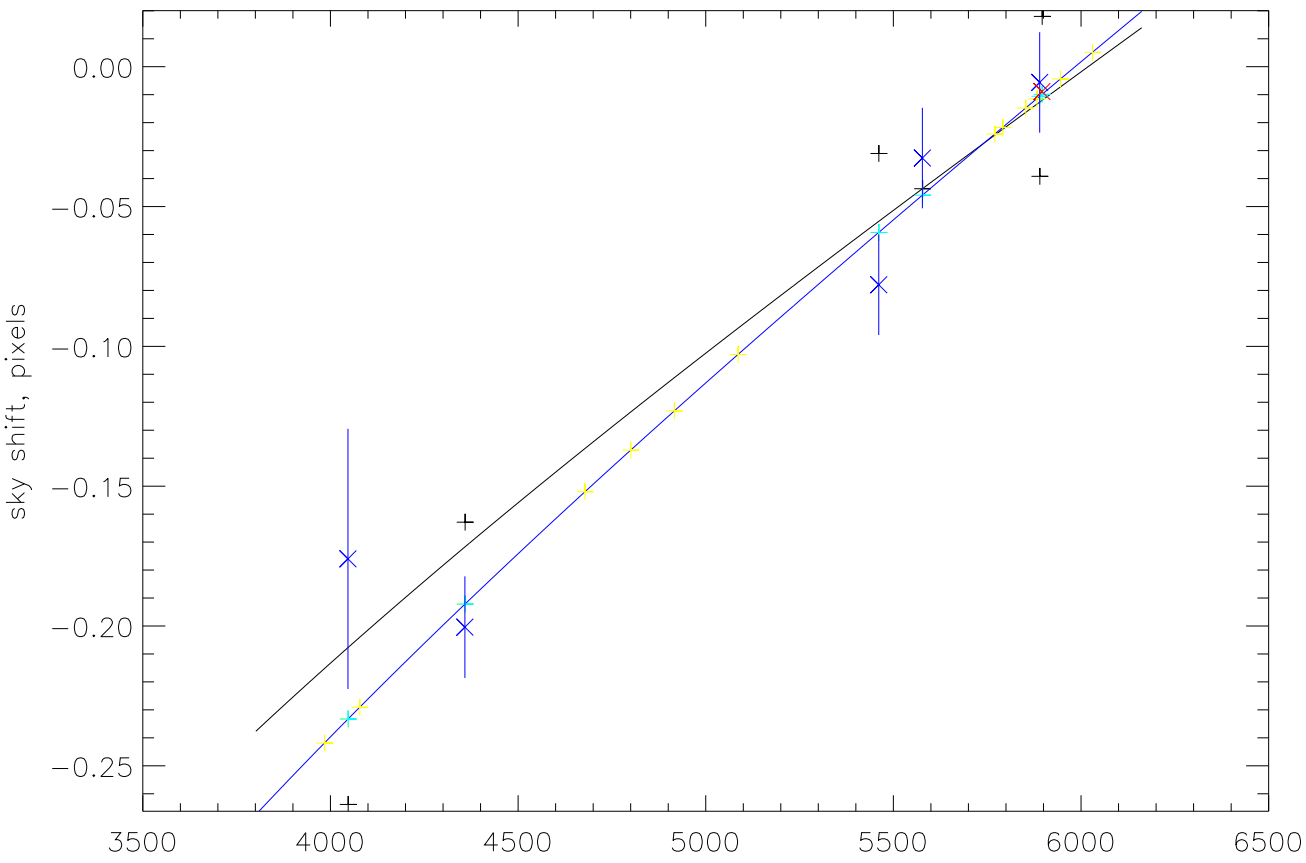

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

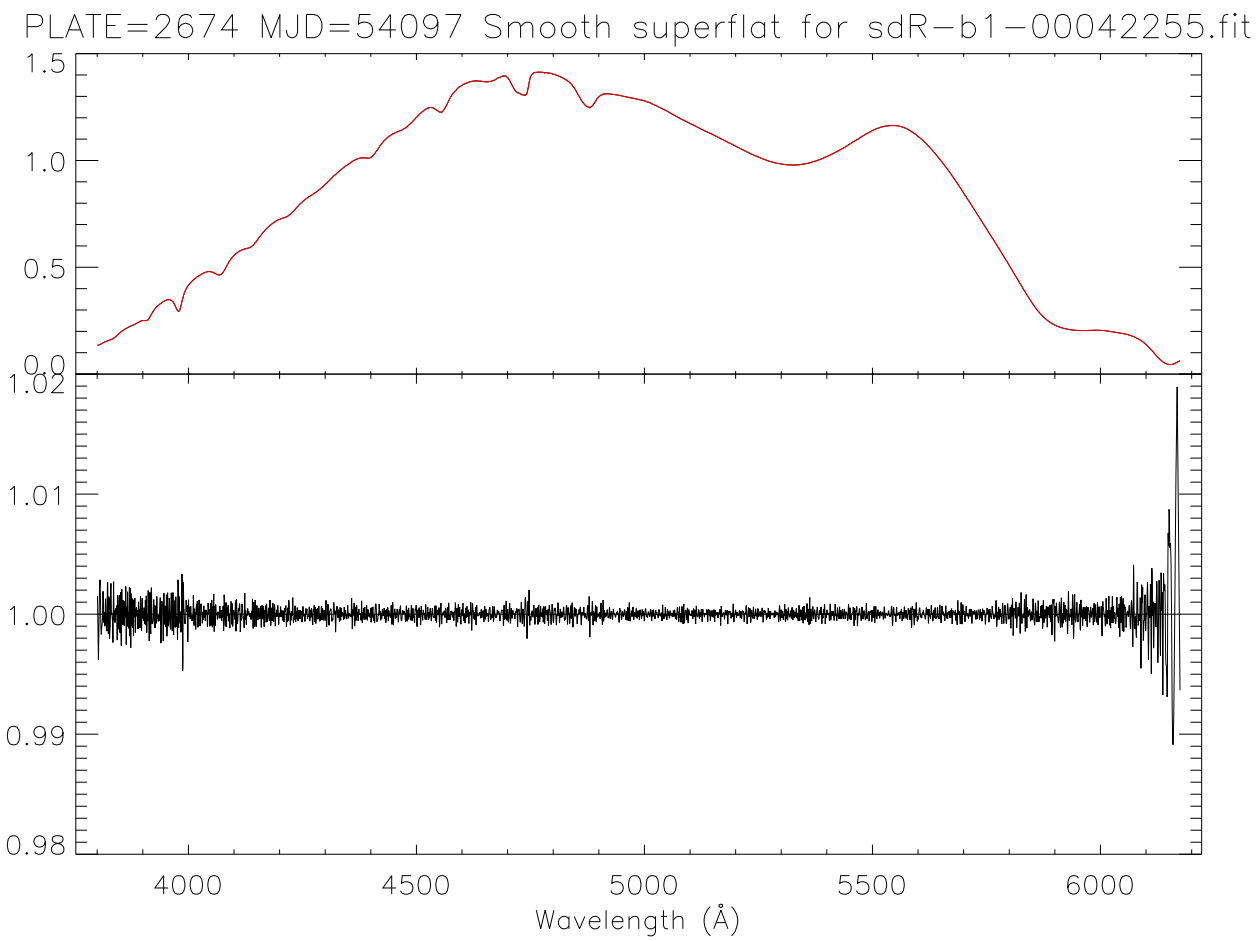

5889.9500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

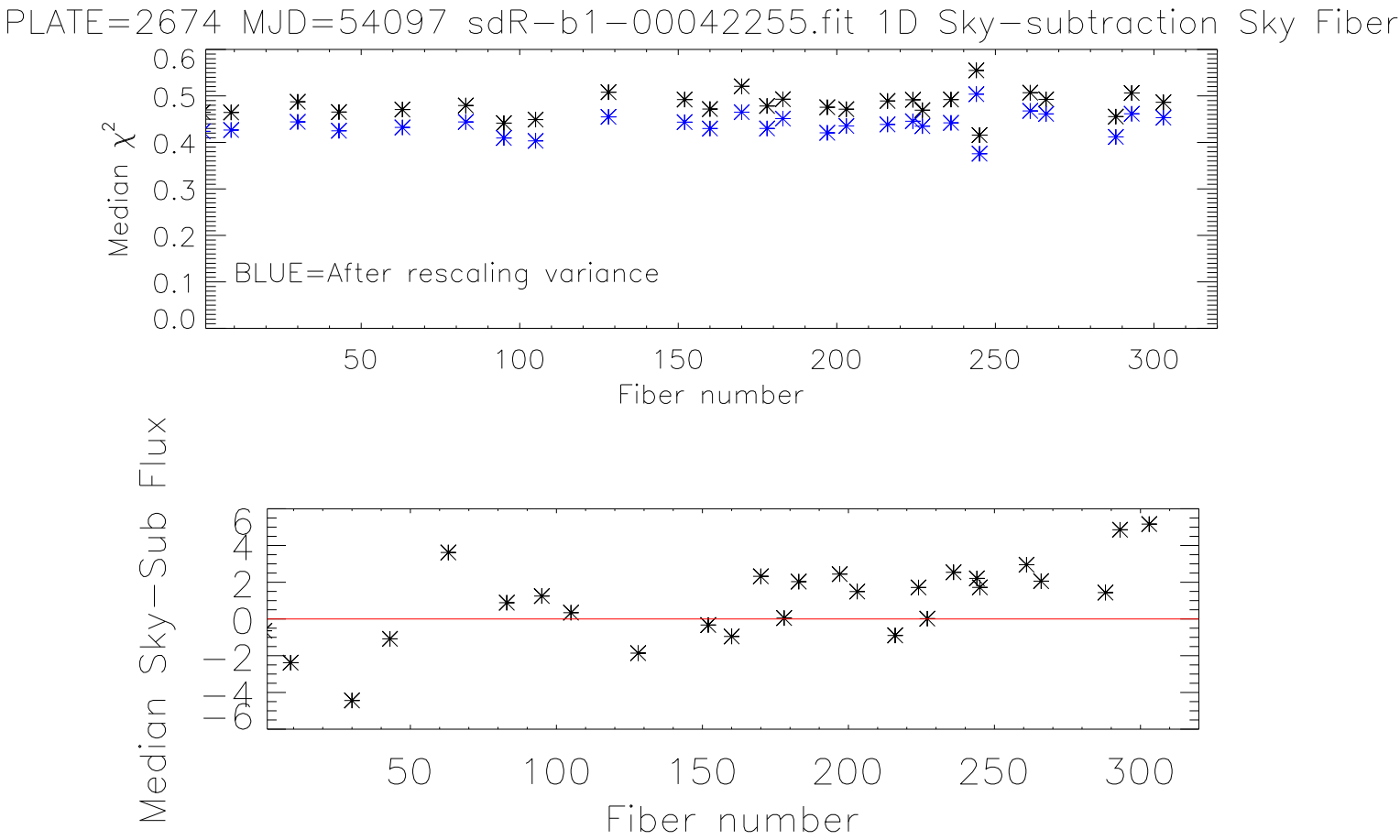

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

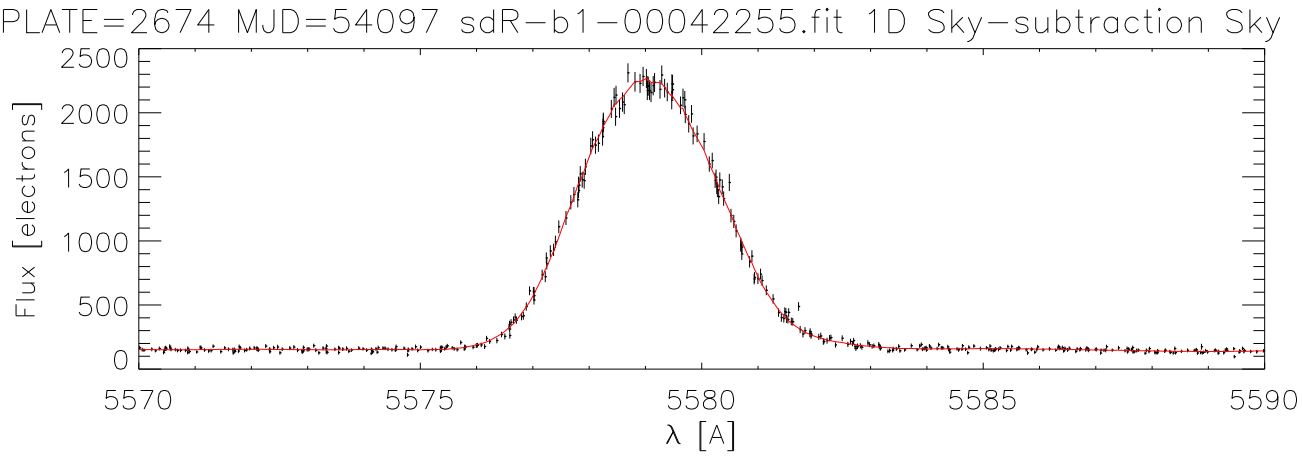

4046.5600
nfib1 27
nfib2 27
stdev 0.106
extra −0.18
4358.3300
nfib1 26
nfib2 26
stdev 0.047
extra −0.20
5460.9400
nfib1 27
nfib2 27
stdev 0.054
extra −0.08
5577.3390
nfib1 27
nfib2 27
stdev 0.028
extra −0.03
5889.9500
nfib1 27
nfib2 27
stdev 0.045
extra −0.01
5895.9240
nfib1 27
nfib2 27
stdev 0.071
extra −0.01
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

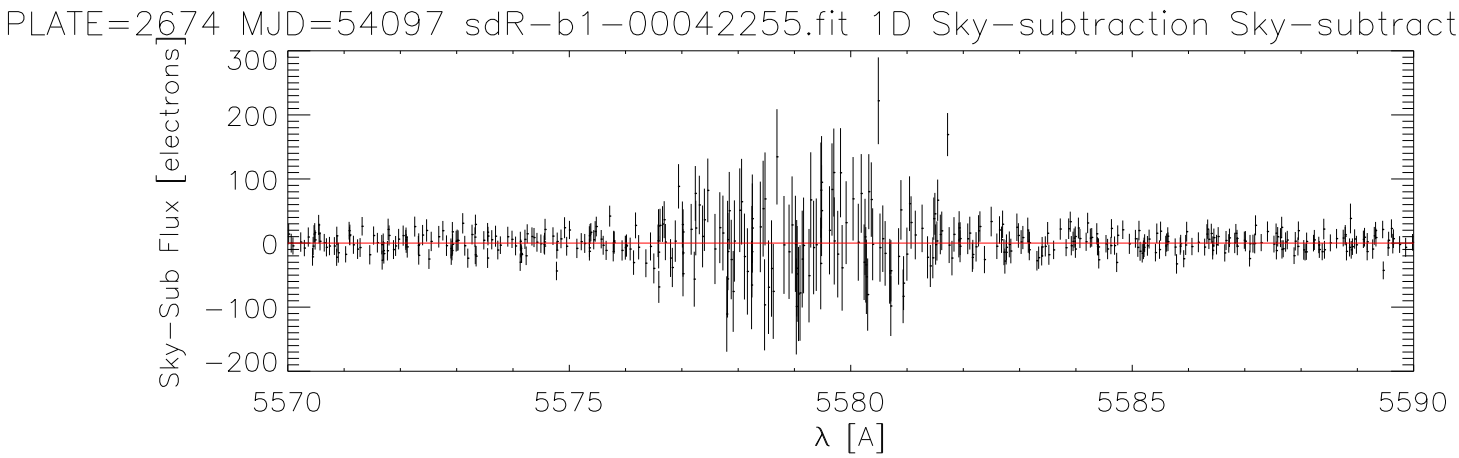

0.00
−0.05
−0.10
−0.15
−0.20
−0.25
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

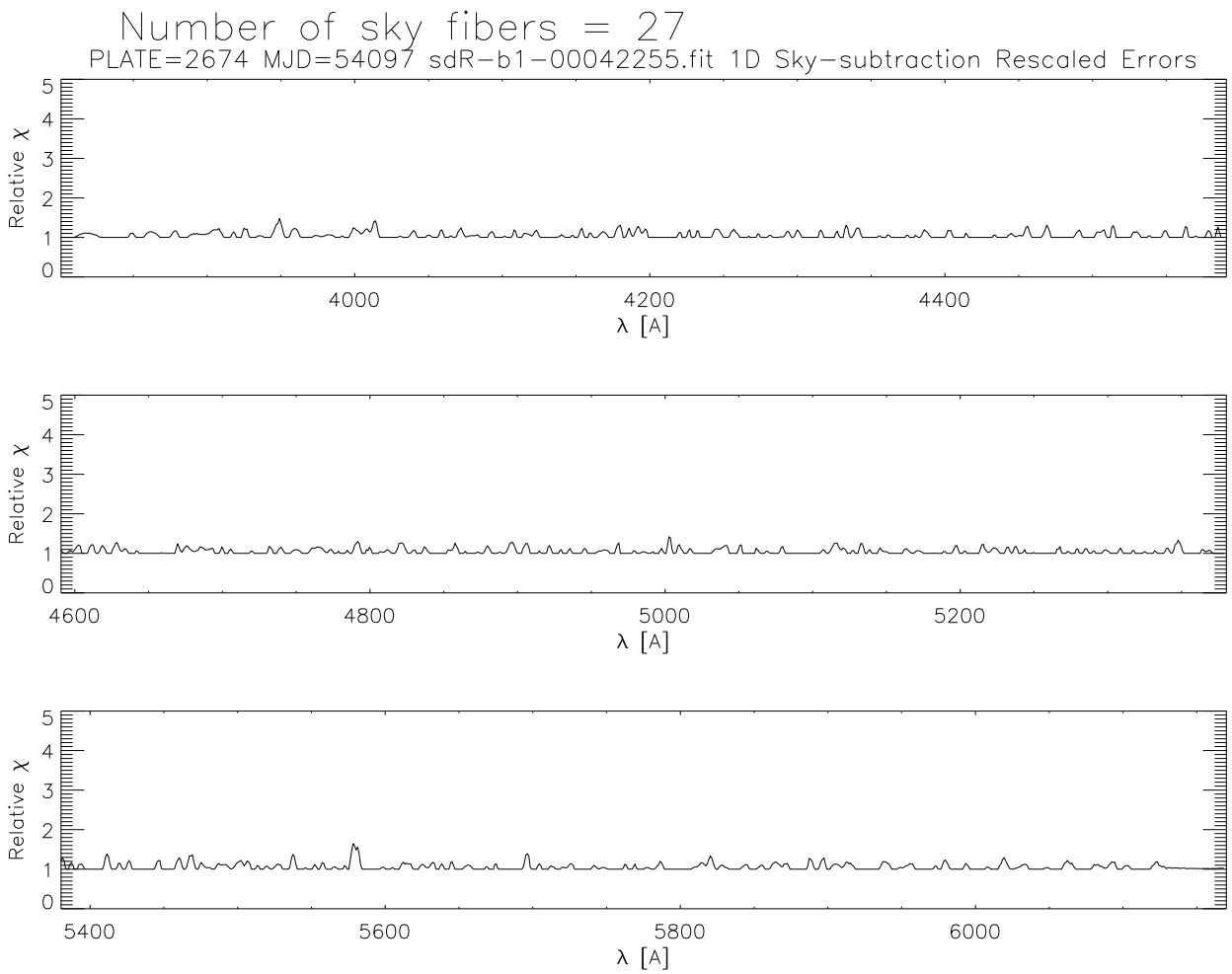
es= −0.0001

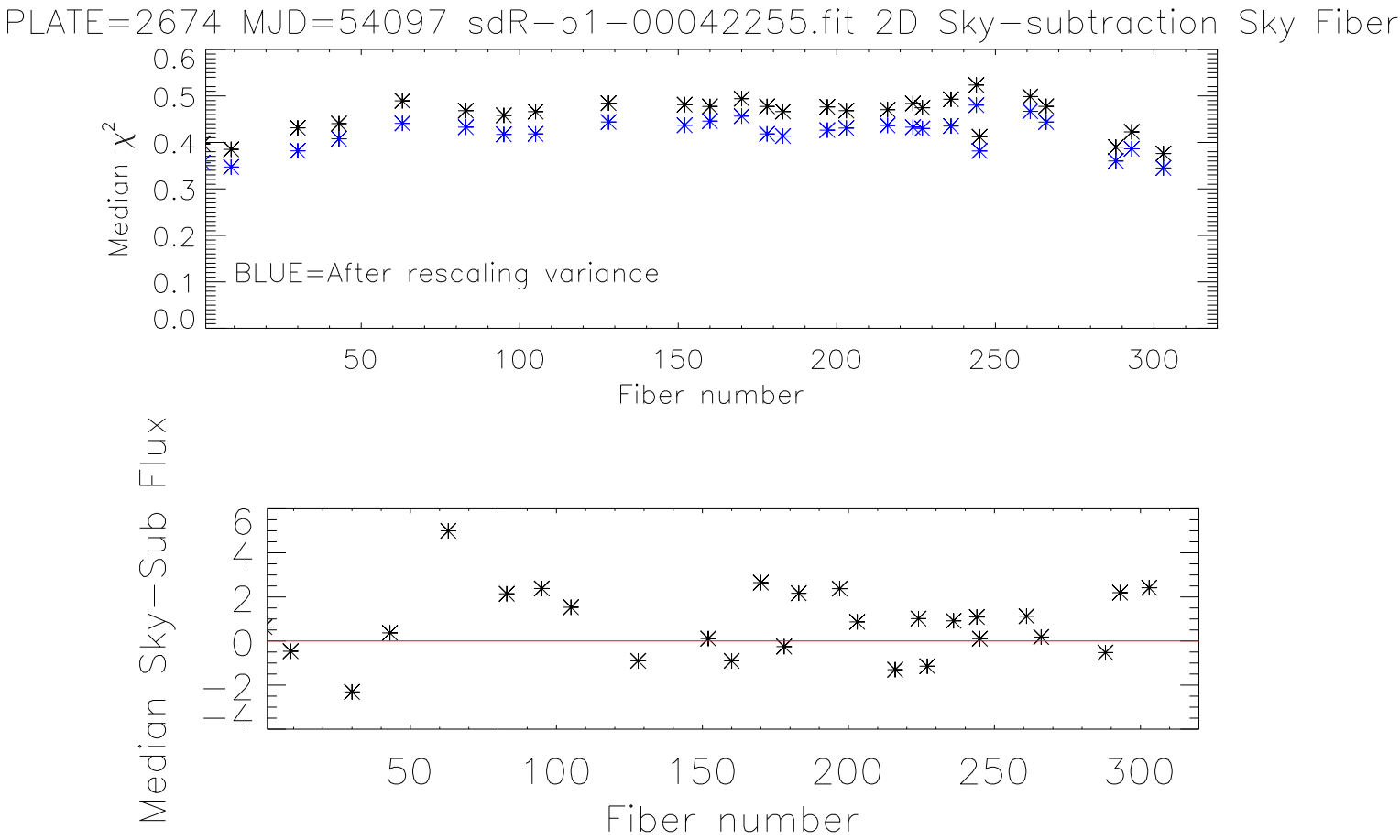

PLATE=2674 MJD=54097 Smooth superflat for sdR−b1−00042255.fit
1.5
1.0
0.5
0.0
1.02
1.01
1.00
0.99
0.98
4000
4500
5000
5500
6000
Wavelength (Å)

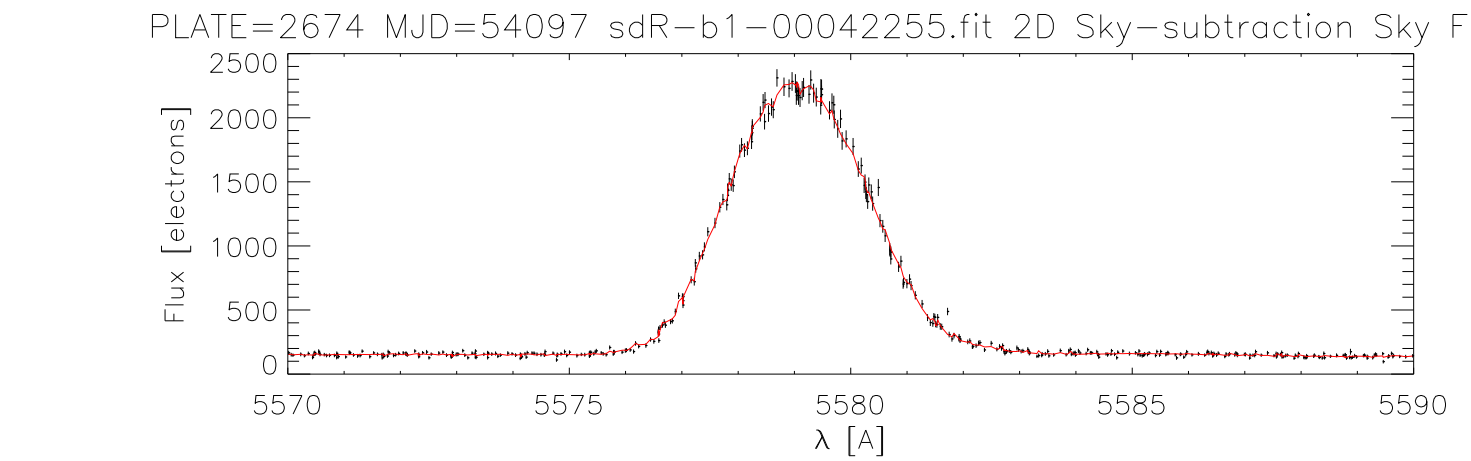

PLATE=2674 MJD=54097 sdR-b1-00042255.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

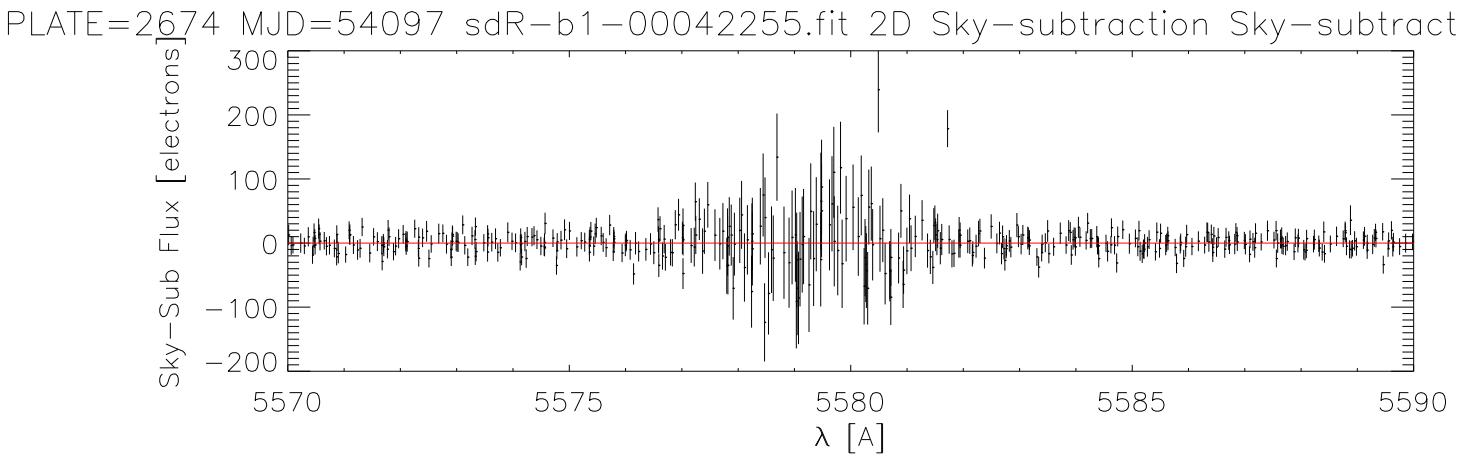

PLATE=2674 MJD=54097 sdR-b1-00042255.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

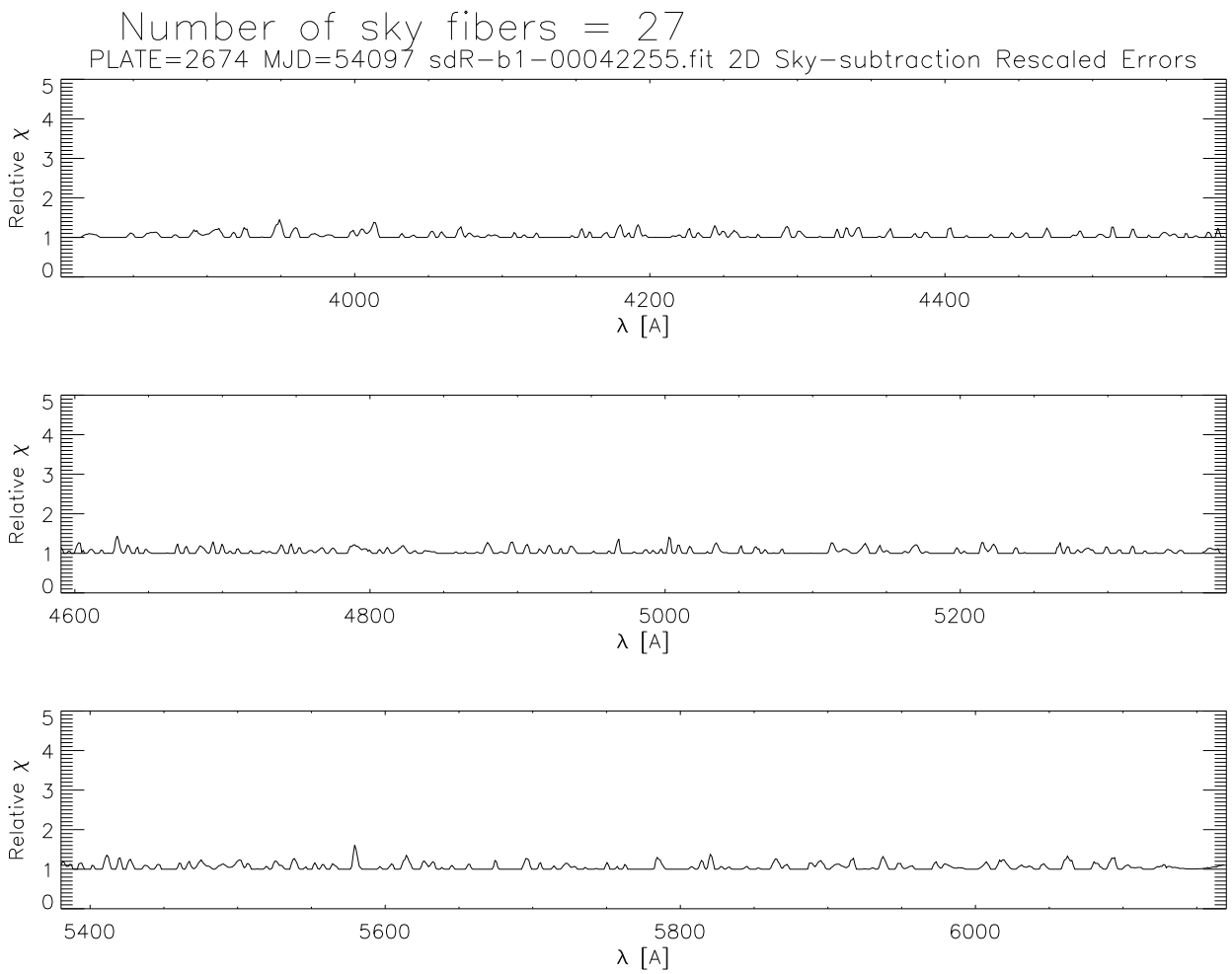

PLATE=2674 MJD=54097 sdR-b1-00042255.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

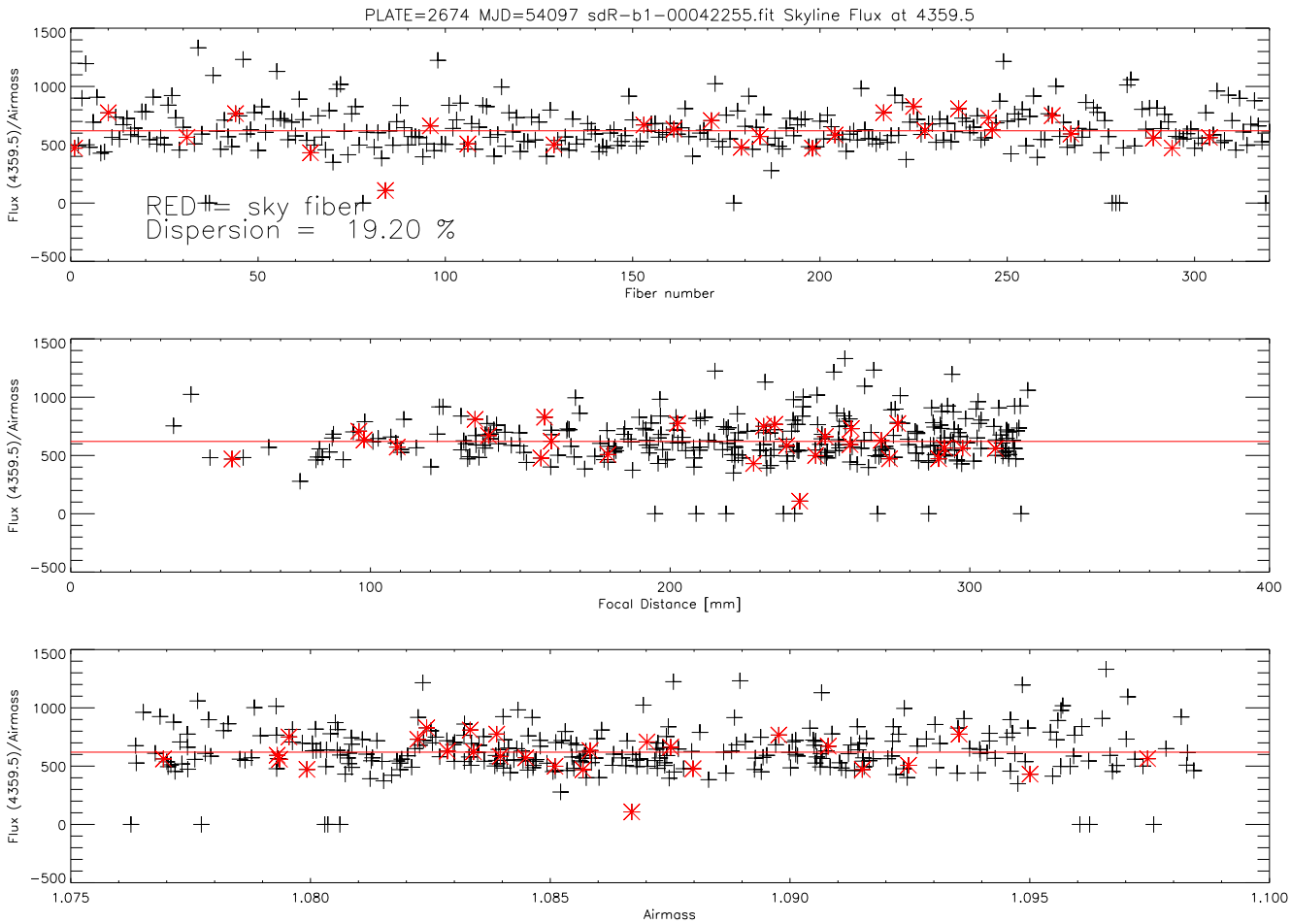

Number of sky fibers = 27
PLATE=2674 MJD=54097 sdR-b1-00042255.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

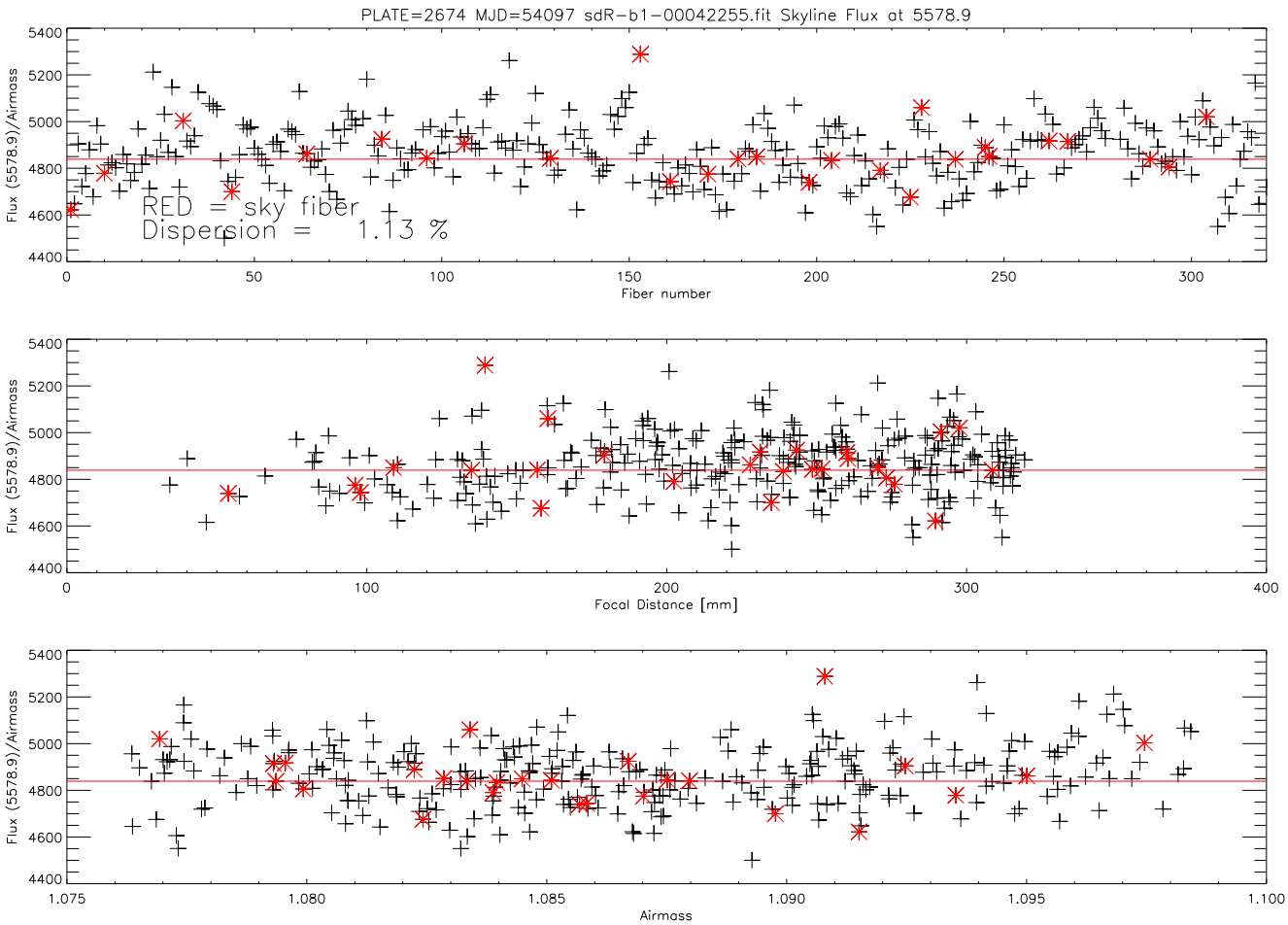

PLATE=2674 MJD=54097 sdR-b1-00042255.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

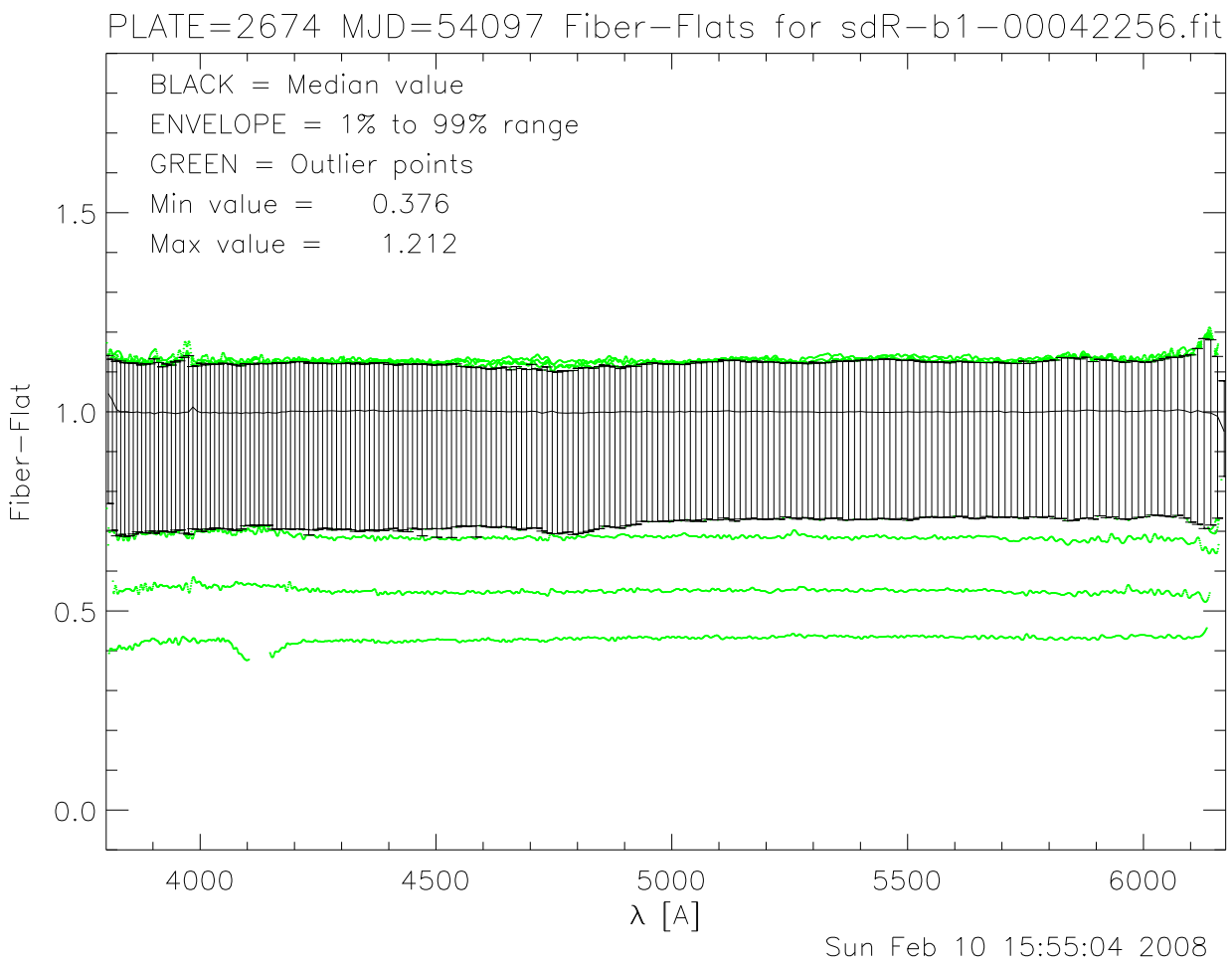

PLATE=2674 MJD=54097 sdR-b1-00042255.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

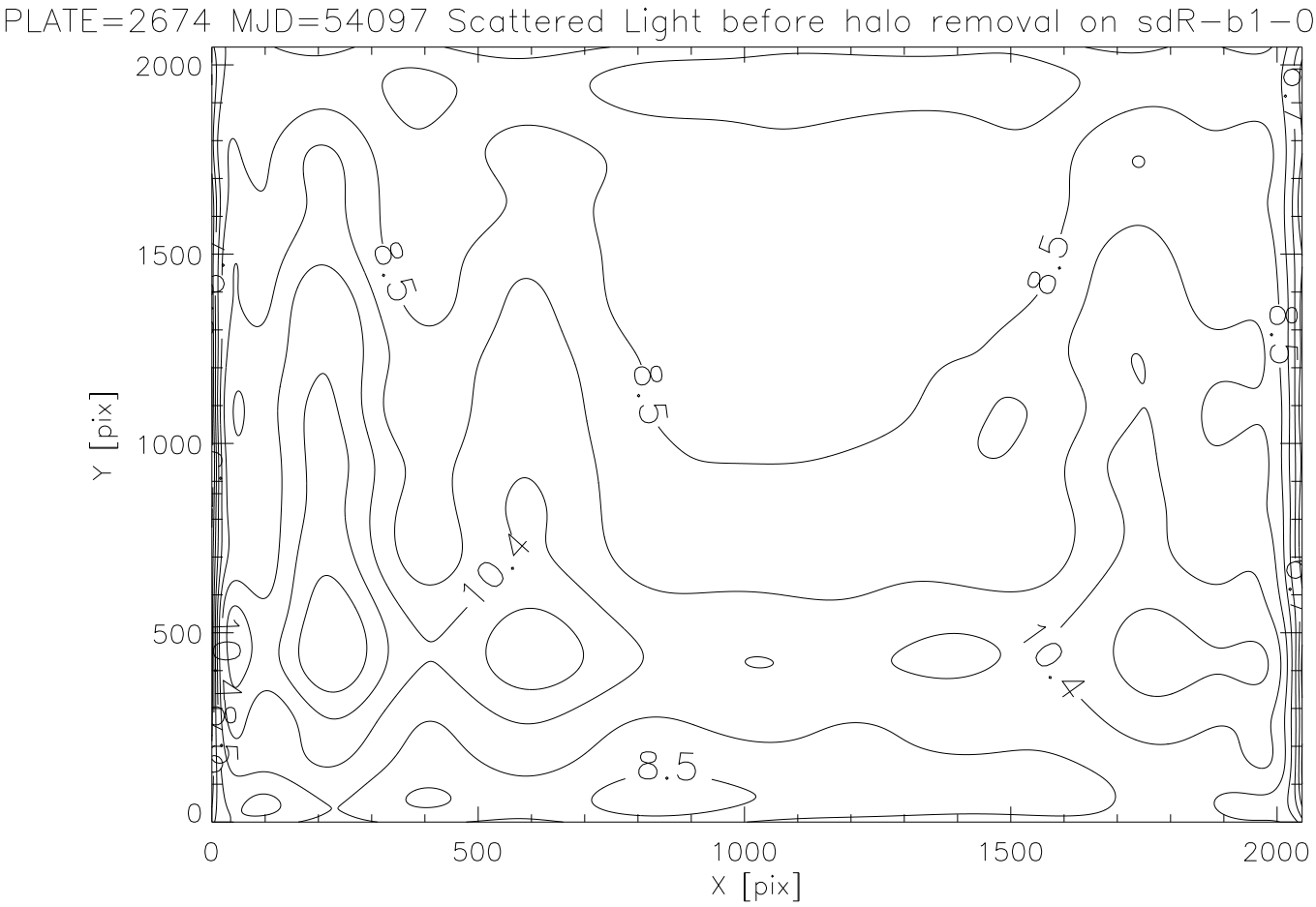

PLATE=2674 MJD=54097 sdR-b1-00042255.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

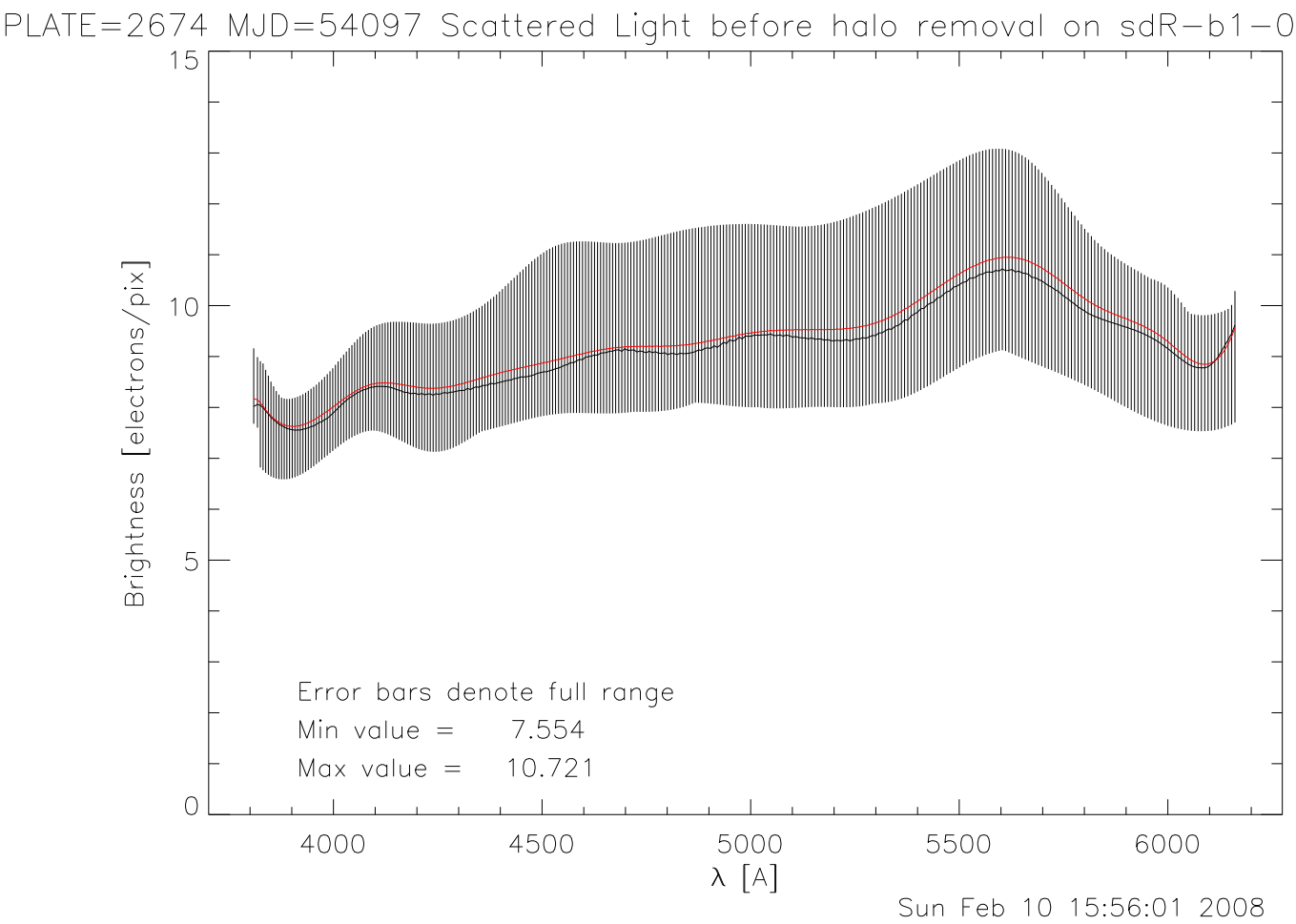

Number of sky fibers = 27
PLATE=2674 MJD=54097 sdR-b1-00042255.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

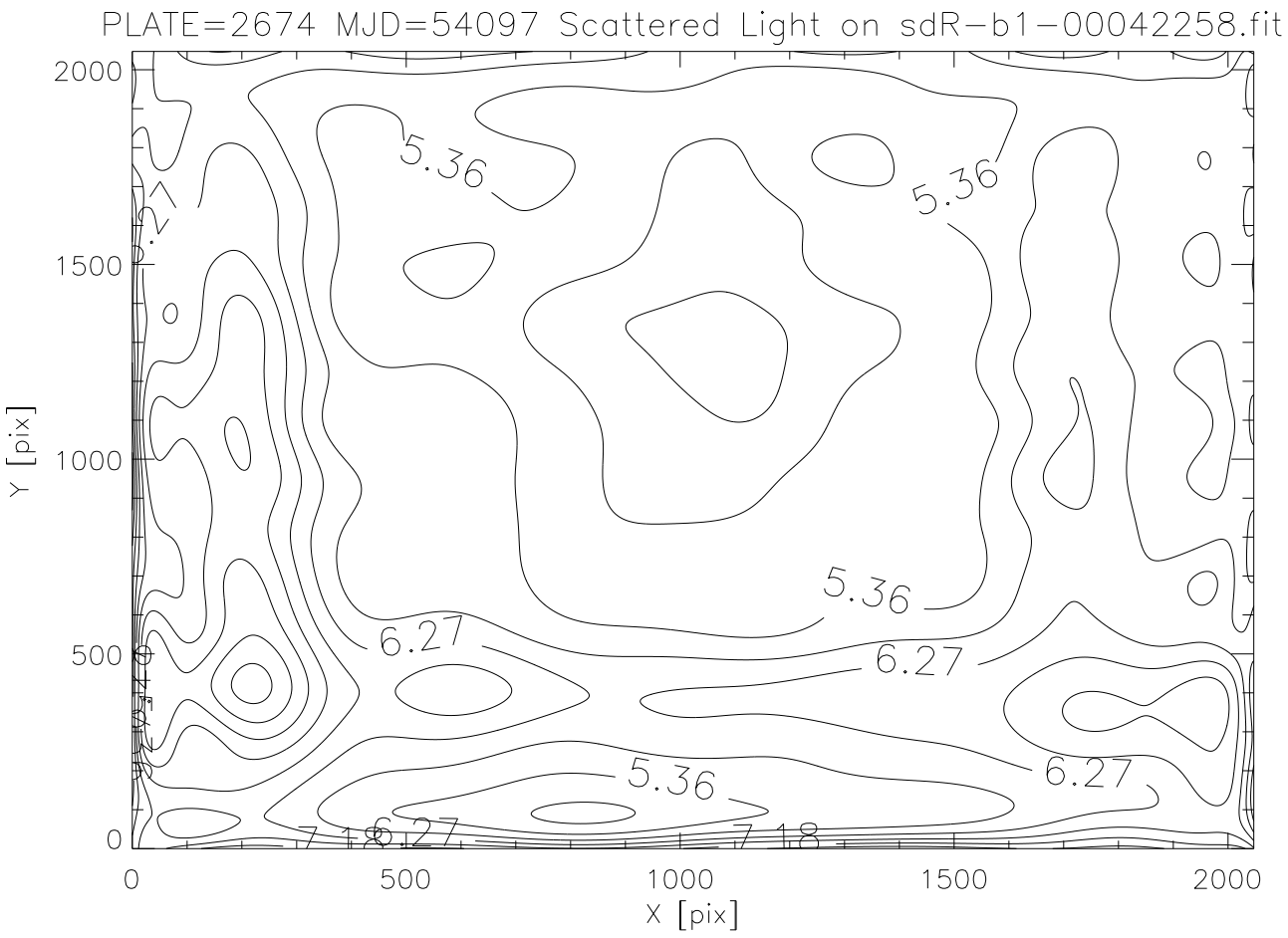

PLATE=2674 MJD=54097 sdR-b1-00042255.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED= sky fiber
Dispersion = 19.20 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

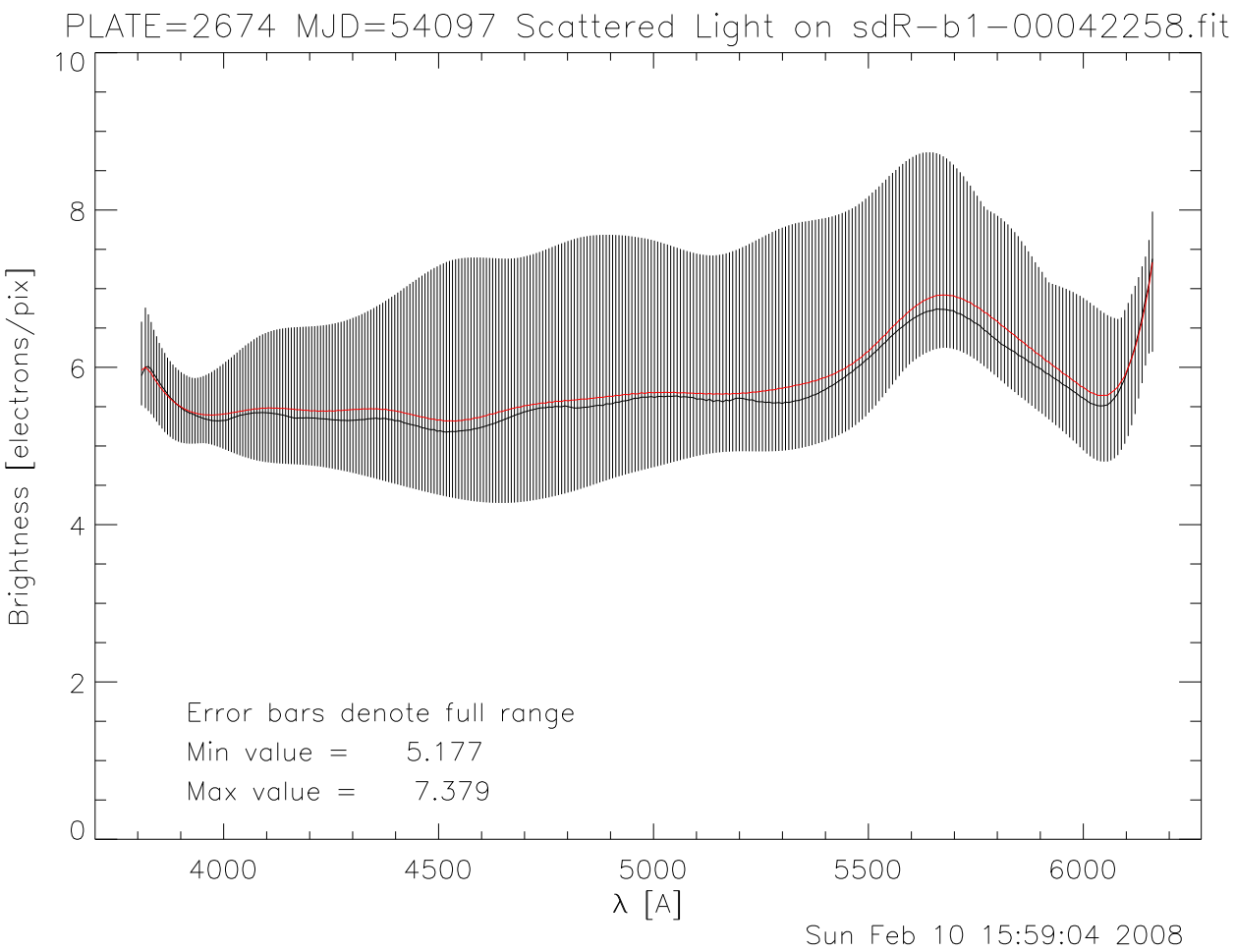

PLATE=2674 MJD=54097 sdR-b1-00042255.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.13 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

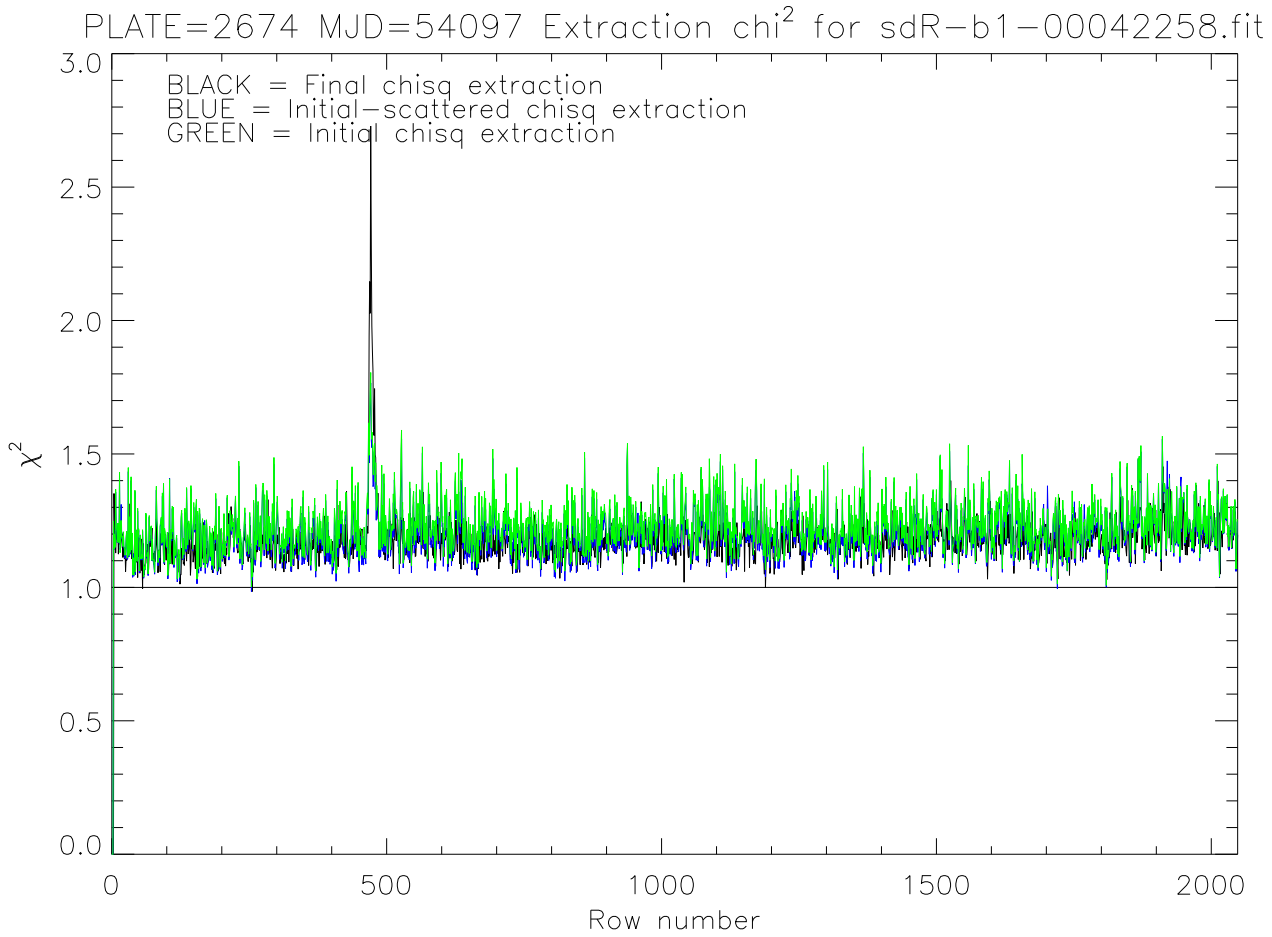

PLATE=2674 MJD=54097 Fiber-Flats for sdR-b1-00042256.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.376
Max value = 1.212
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sun Feb 10 15:55:04 2008

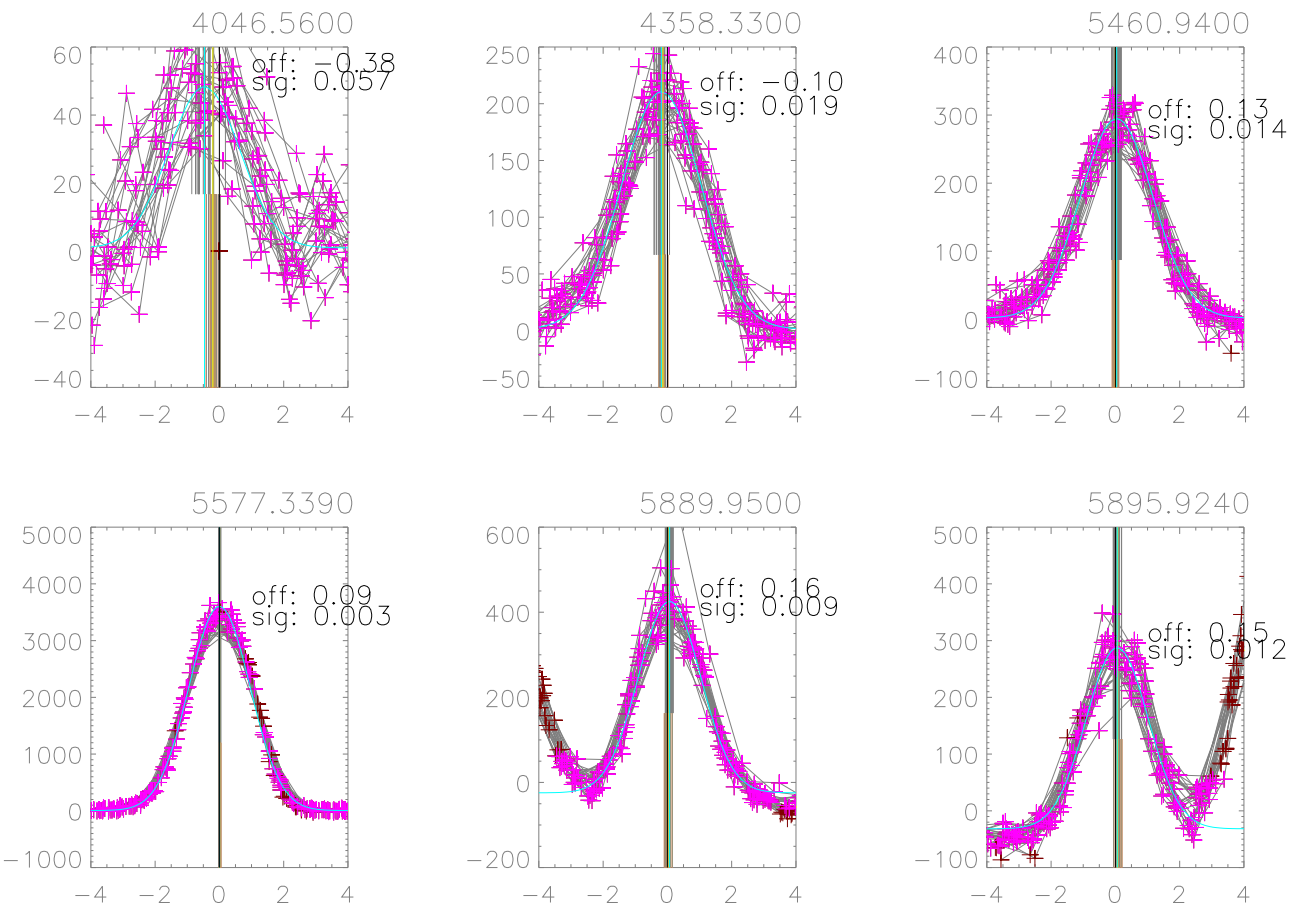

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR−b1−00042258.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
8.5
8.5
8.5
8.5
10.4
10.4
10.4
10.4
8.5
8.5
8.5
8.5

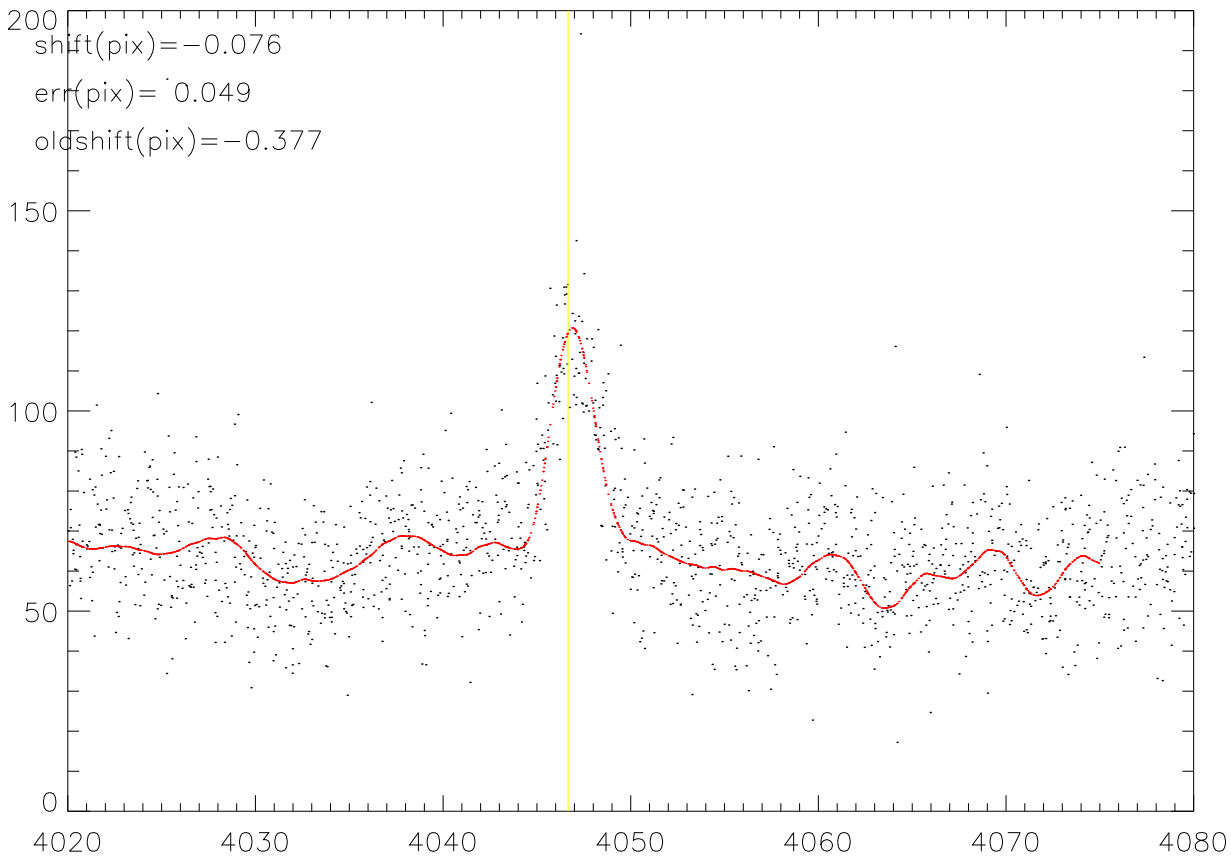

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR-b1-00042258.f
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 7.554
Max value = 10.721
Sun Feb 10 15:56:01 2008

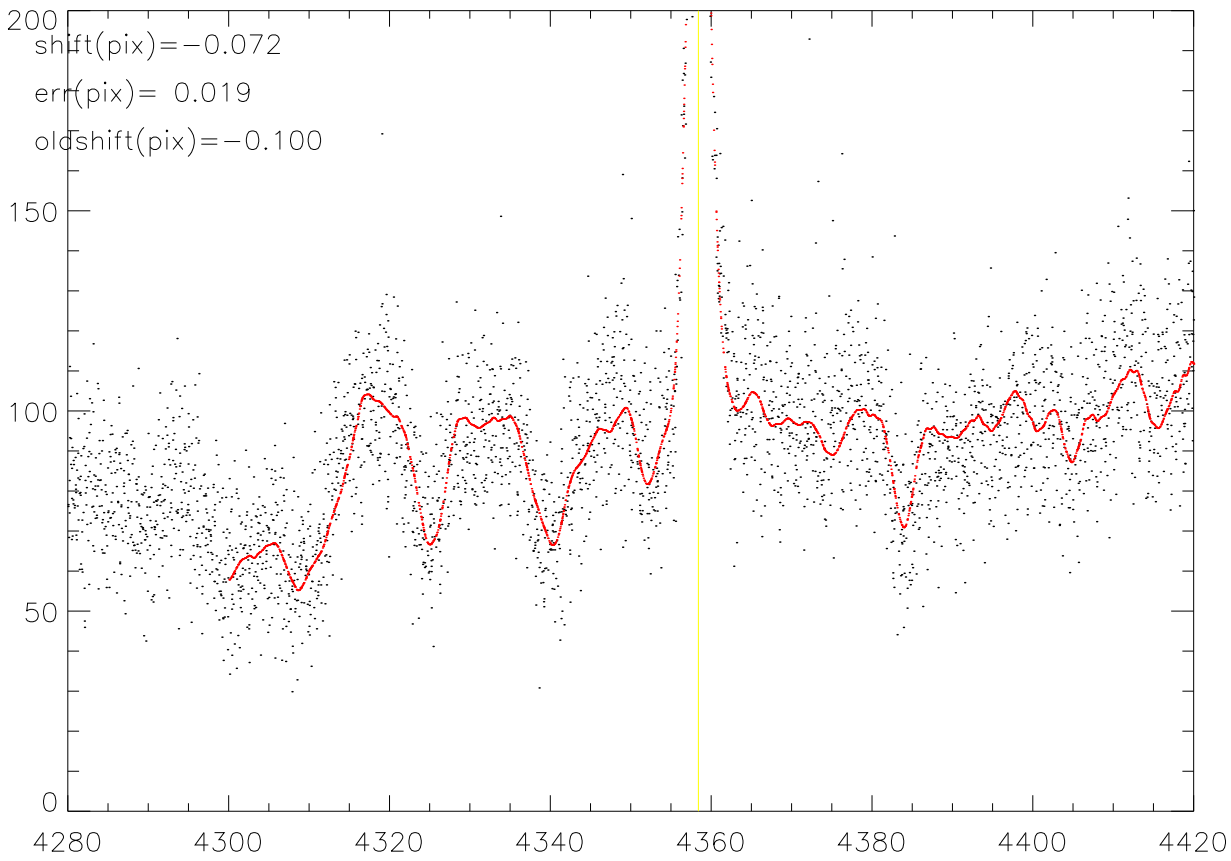

PLATE=2674 MJD=54097 Scattered Light on sdR-b1-00042258.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
5.36
5.36
5.36
6.27
6.27
6.27
7.18
7.18
0
0

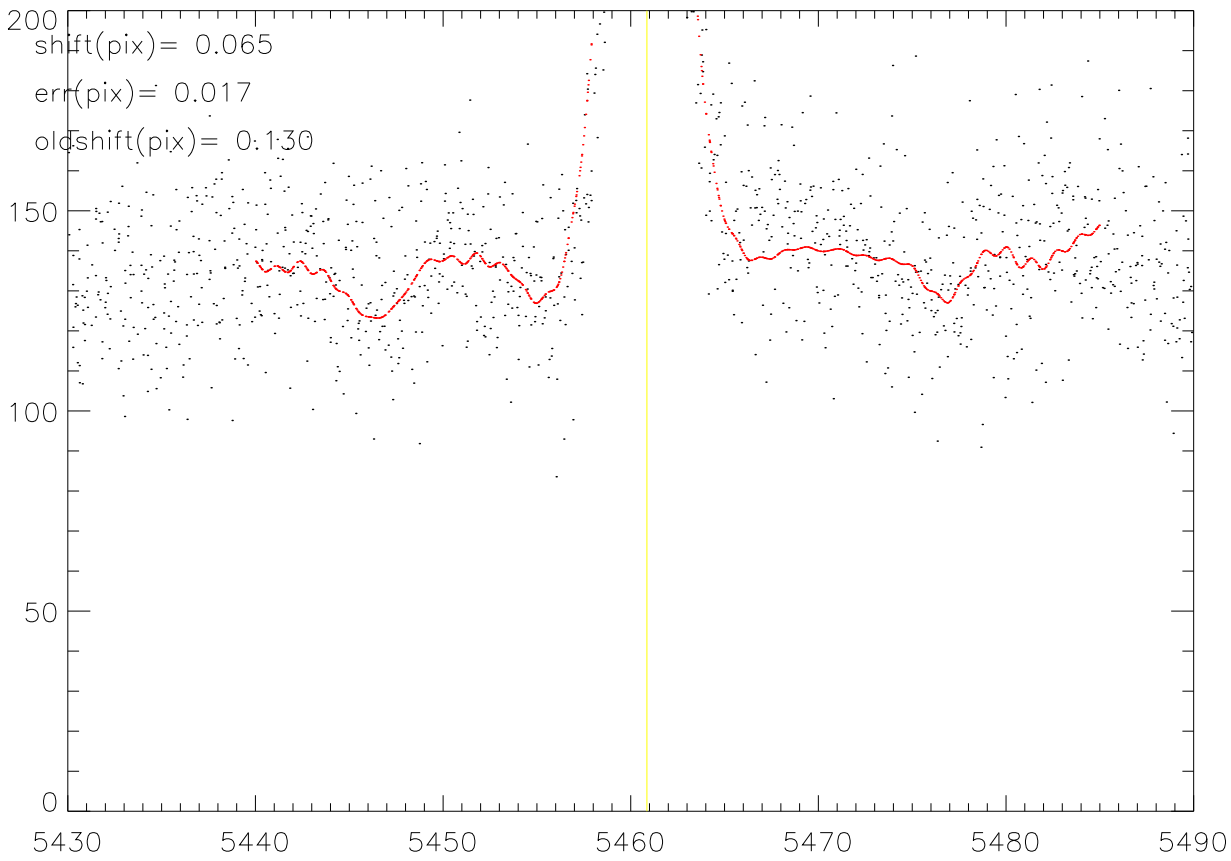

PLATE=2674 MJD=54097 Scattered Light on sdR-b1-00042258.fit
Brightness [electrons/pix]
10
8
6
4
2
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 5.177
Max value = 7.379
Sun Feb 10 15:59:04 2008

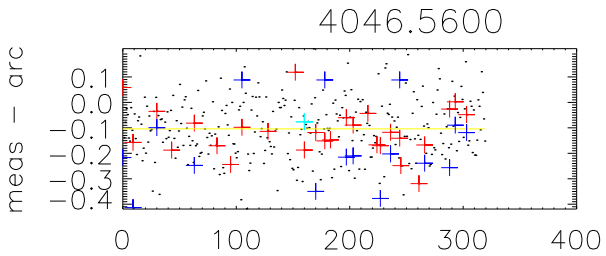

PLATE=2674 MJD=54097 Extraction chi^2 for sdR-b1-00042258.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

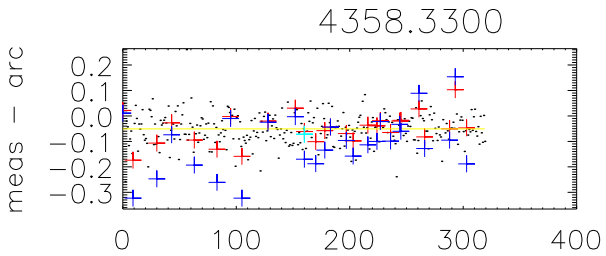

4046.5600
off: −0.38
sig: 0.057
4358.3300
off: −0.10
sig: 0.019
5460.9400
off: 0.13
sig: 0.014
5577.3390
off: 0.09
sig: 0.003
5889.9500
off: 0.16
sig: 0.009
5895.9240
off: 0.15
sig: 0.012

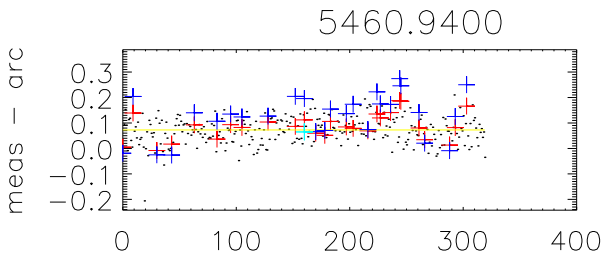

shift(pix)=−0.076
err(pix)= 0.049
oldshift(pix)=−0.377
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

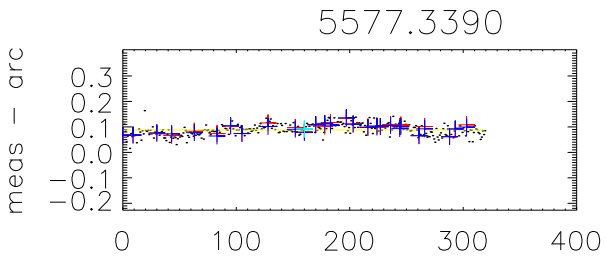

shift(pix)=−0.072
err(pix)= 0.019
oldshift(pix)=−0.100
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

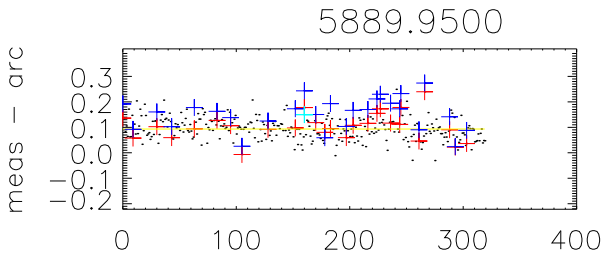

shift(pix)= 0.065
err(pix)= 0.017
oldshift(pix)= 0.130
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

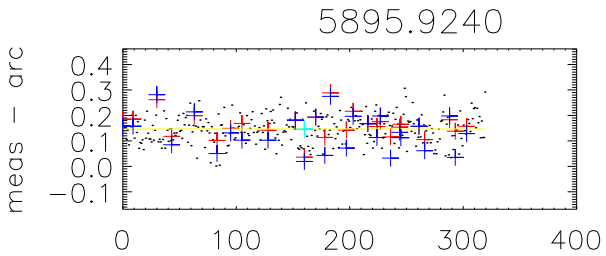

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

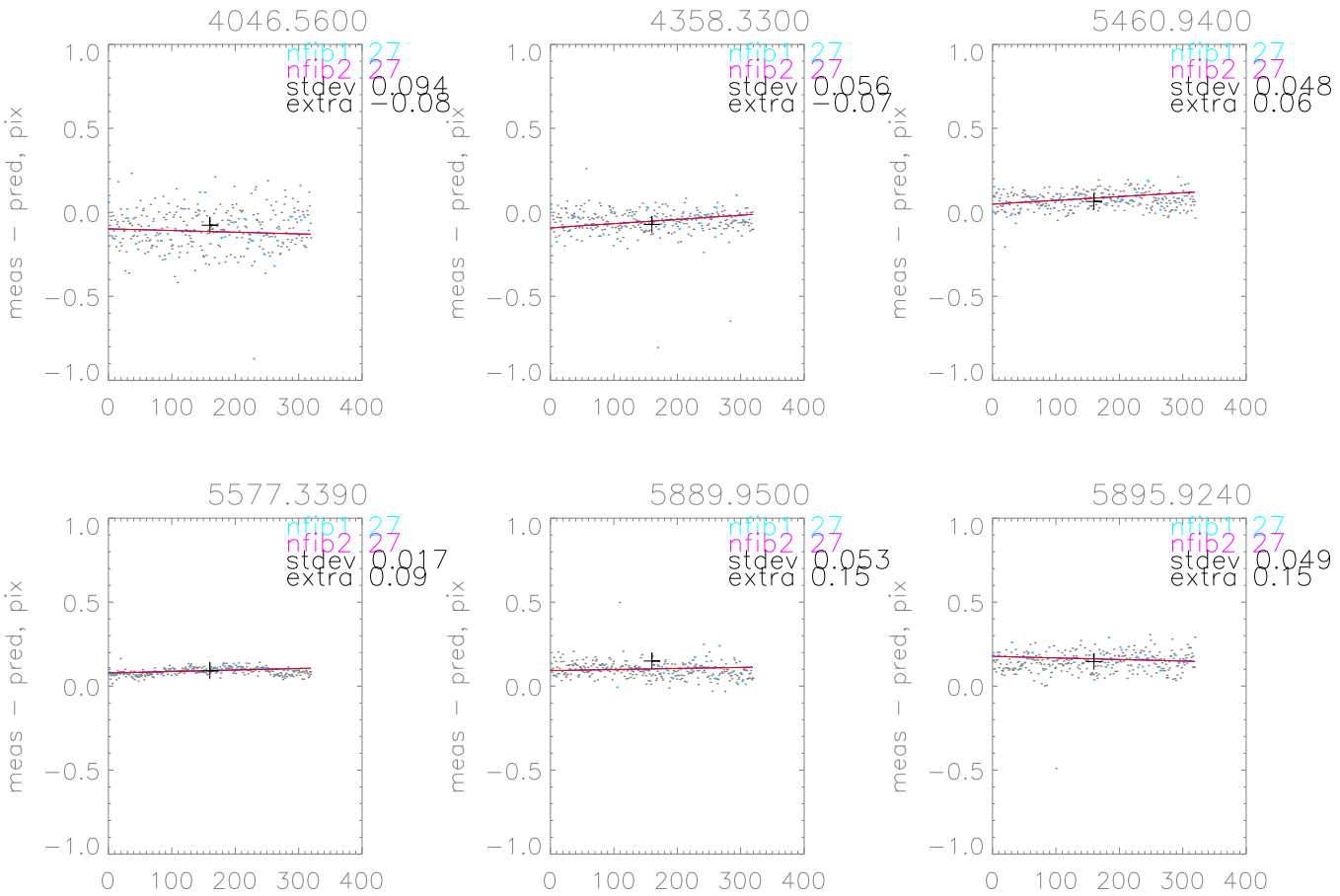

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

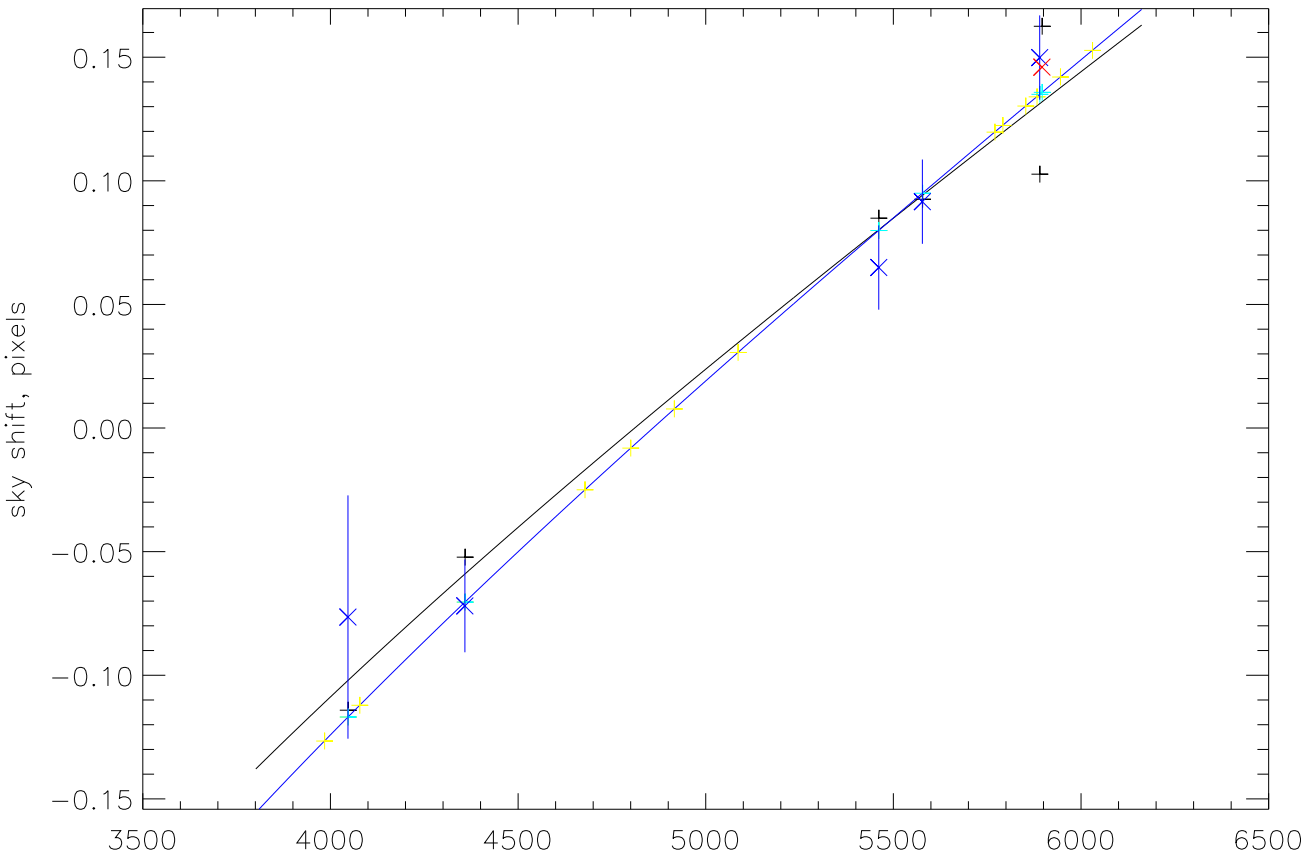

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

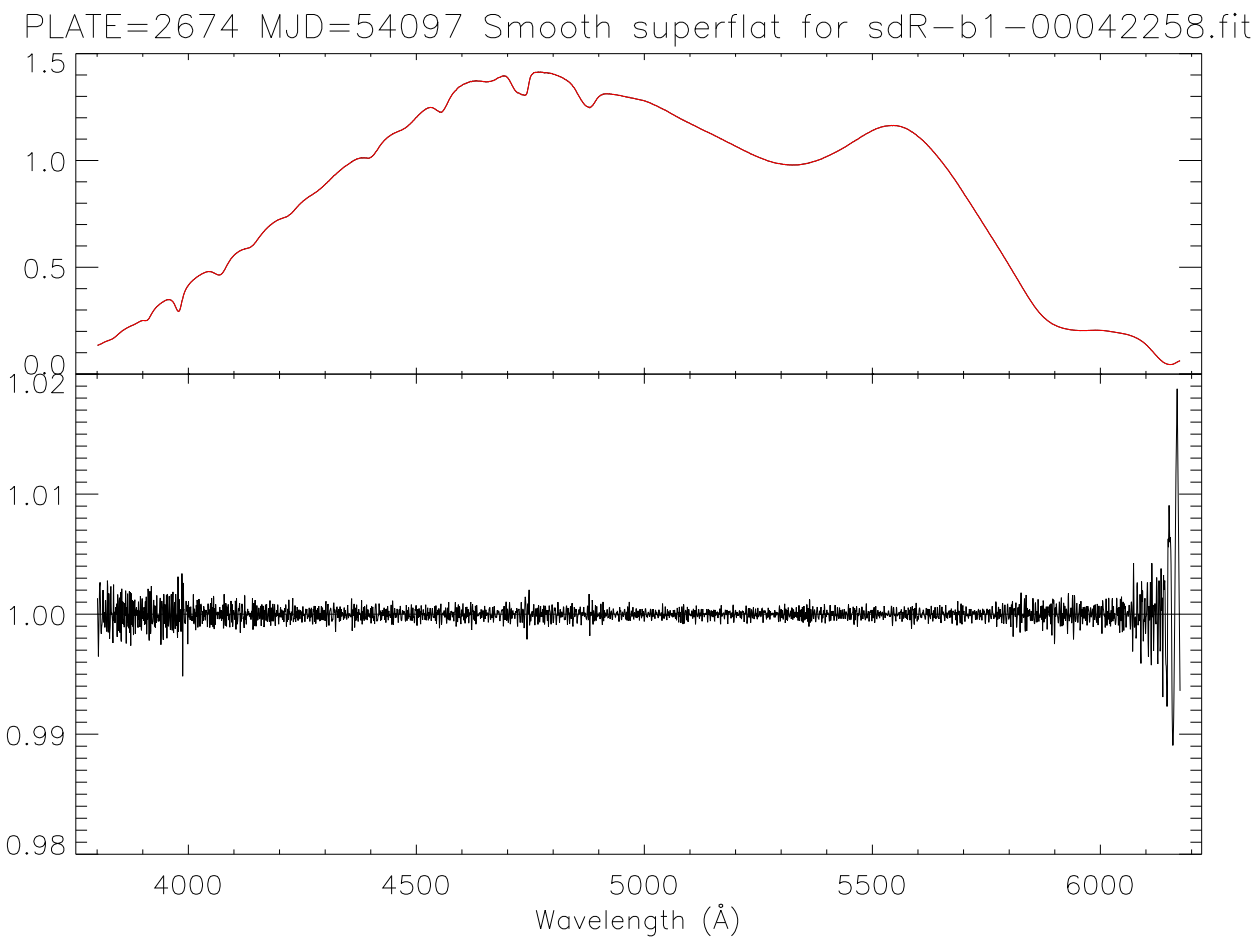

5889.9500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

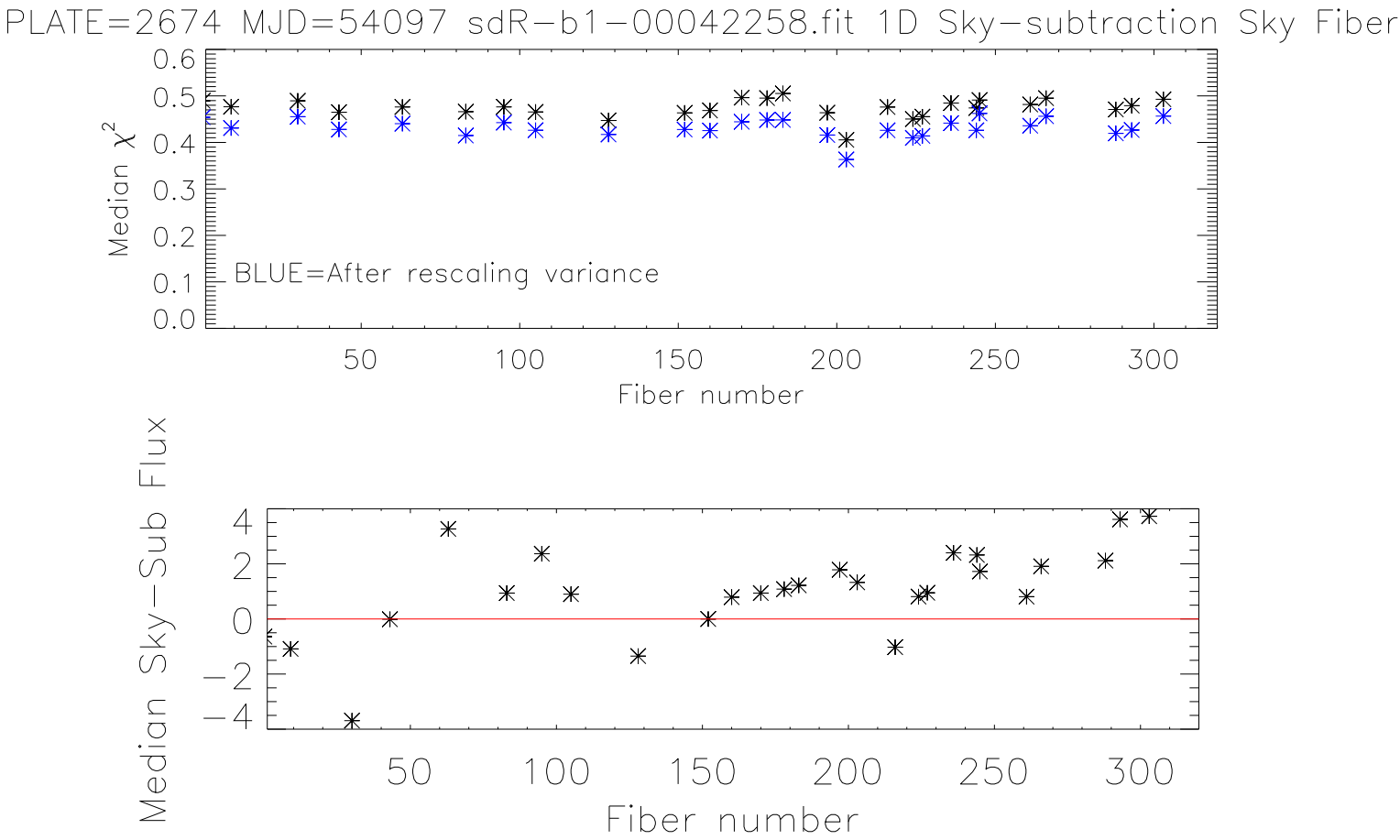

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

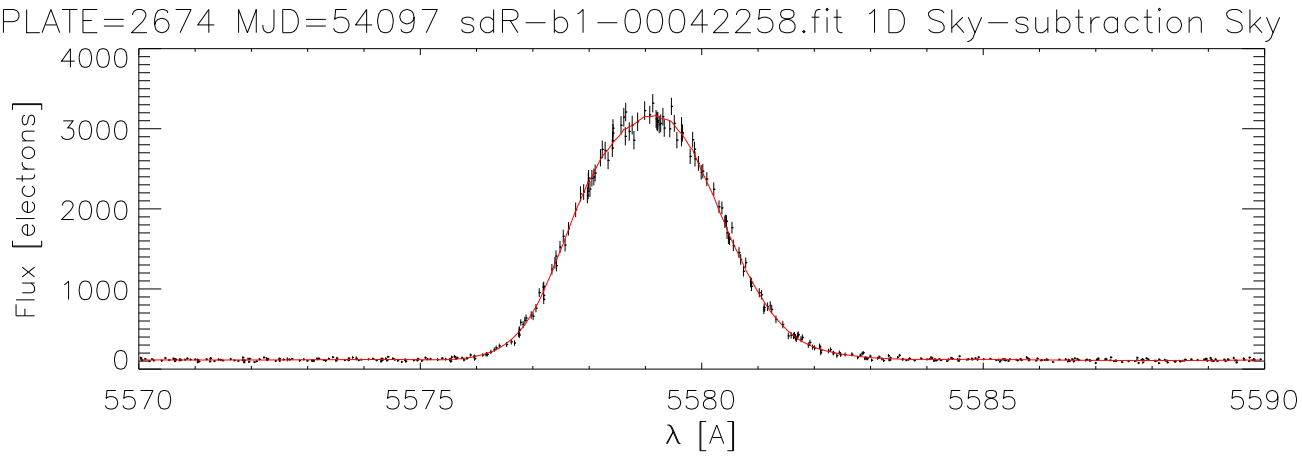

4046.5600
nfib1 27
nfib2 27
stdev 0.094
extra −0.08
4358.3300
nfib1 27
nfib2 27
stdev 0.056
extra −0.07
5460.9400
nfib1 27
nfib2 27
stdev 0.048
extra 0.06
5577.3390
nfib1 27
nfib2 27
stdev 0.017
extra 0.09
5889.9500
nfib1 27
nfib2 27
stdev 0.053
extra 0.15
5895.9240
nfib1 27
nfib2 27
stdev 0.049
extra 0.15
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

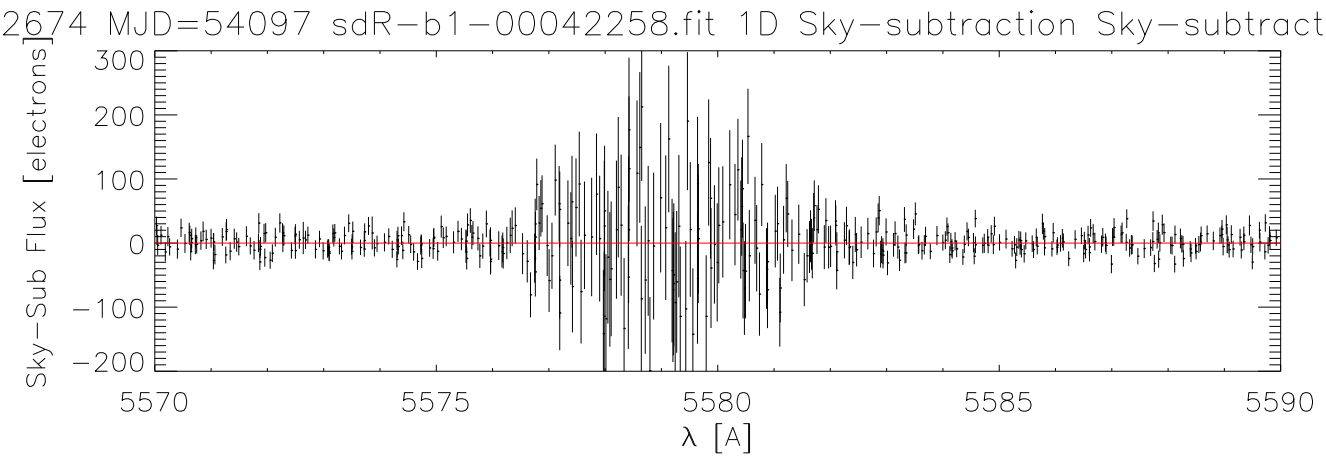

sky shift, pixels
0.15
0.10
0.05
0.00
−0.05
−0.10
−0.15
3500
4000
4500
5000
5500
6000
6500

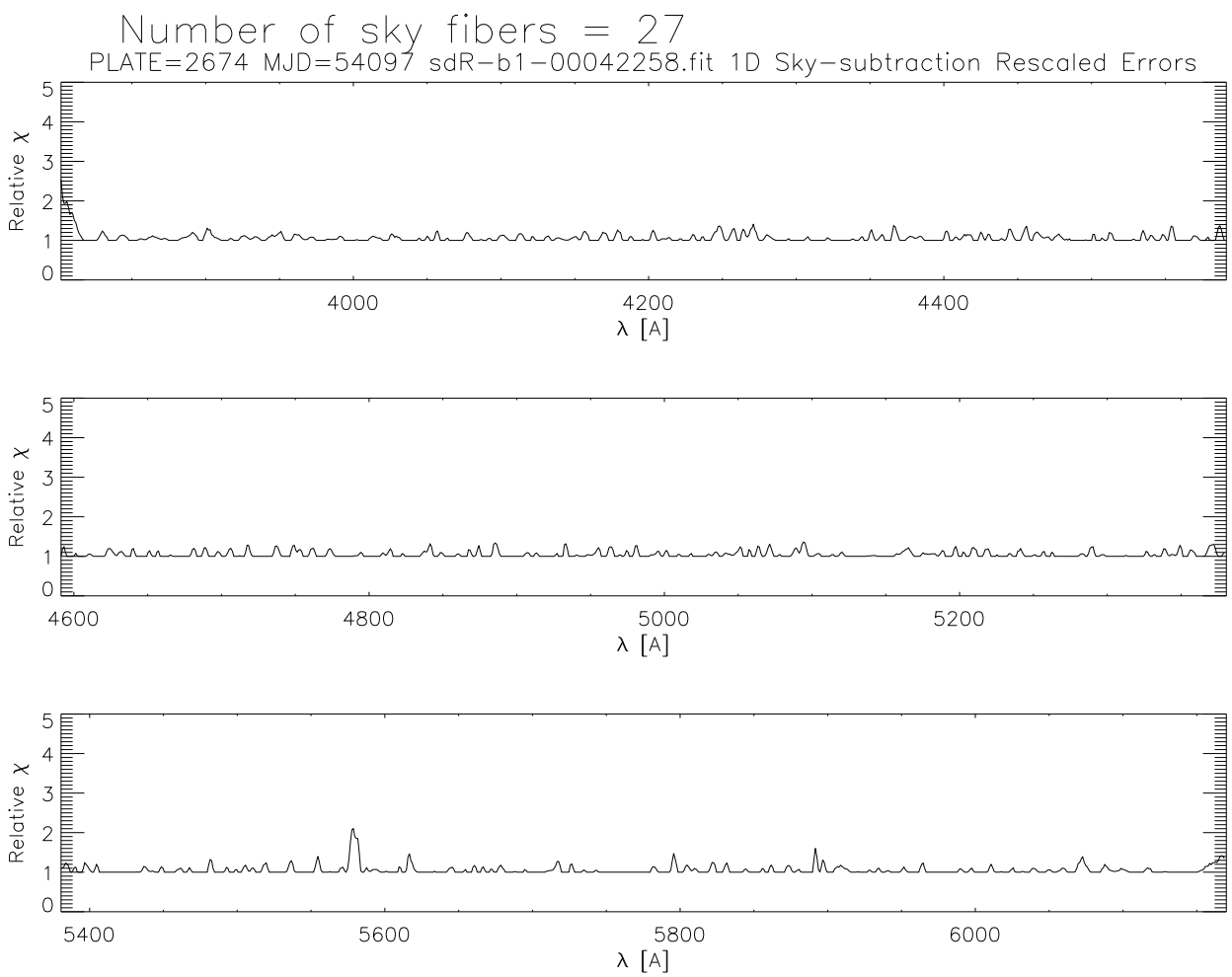
es= −0.0001

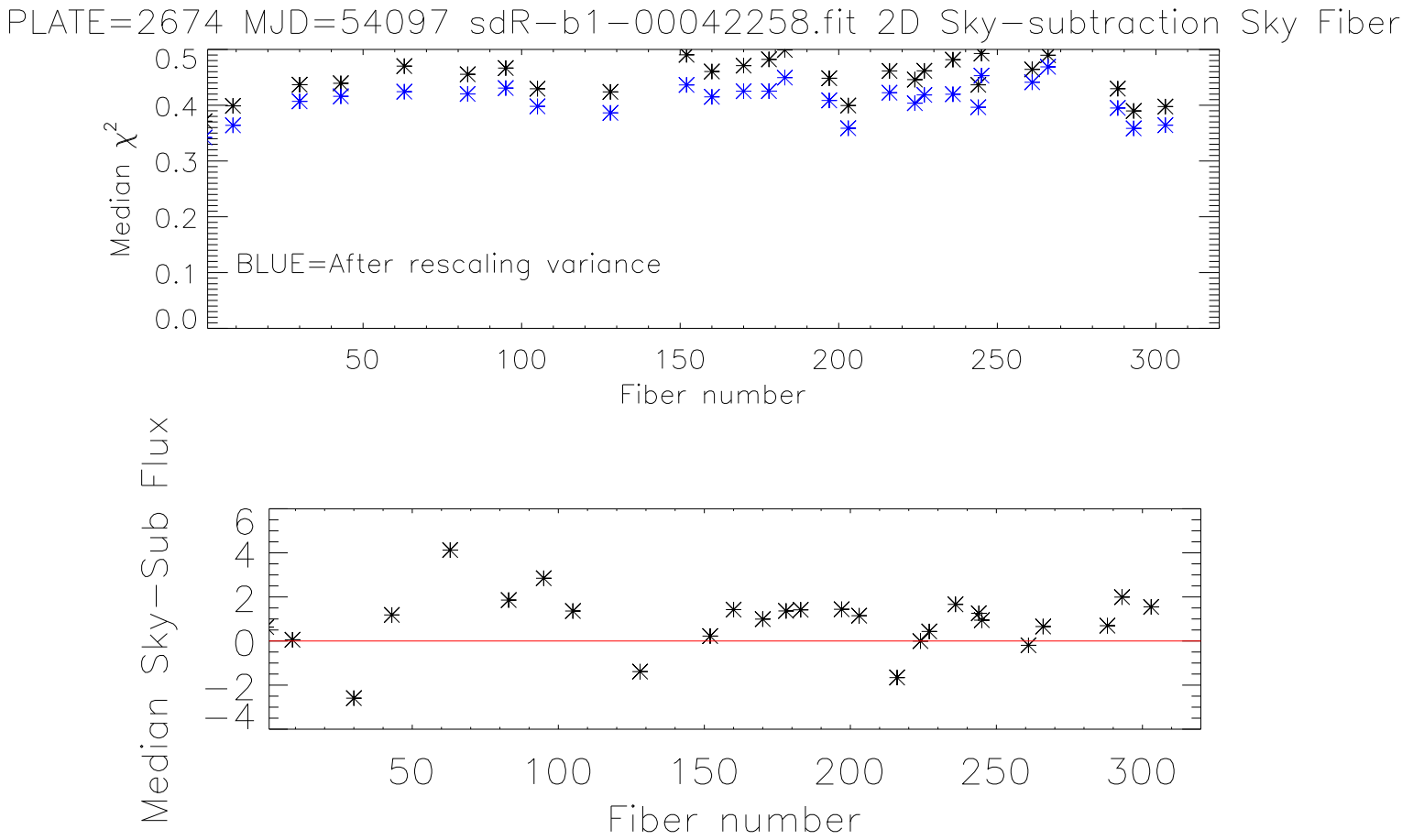

PLATE=2674 MJD=54097 Smooth superflat for sdR−b1−00042258.fit
1.5
1.0
0.5
0.0
1.02
1.01
1.00
0.99
0.98
4000
4500
5000
5500
6000
Wavelength (Å)

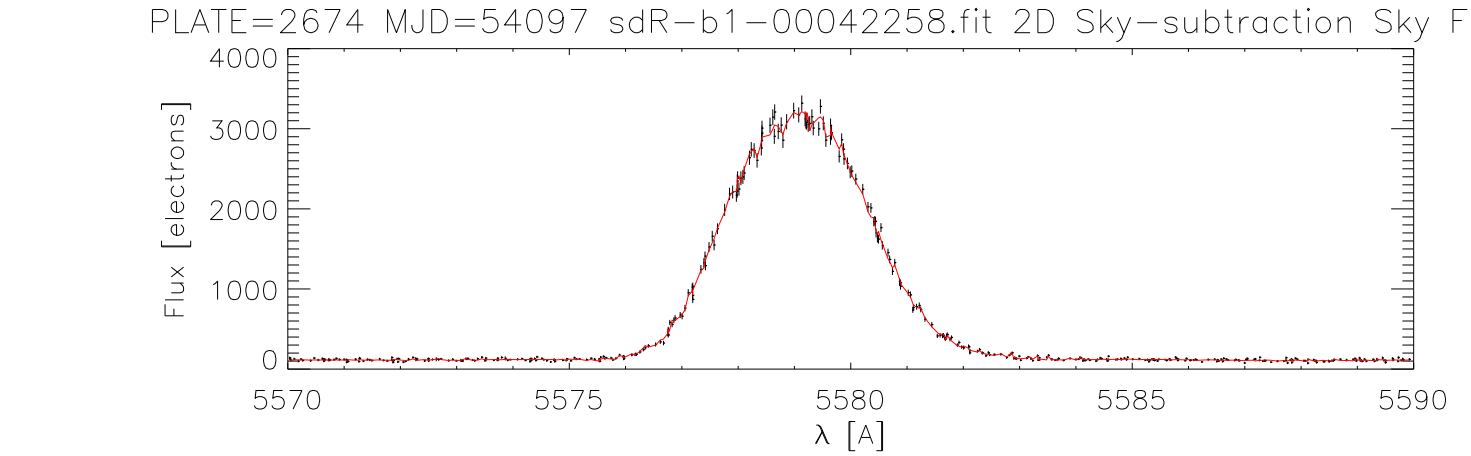

PLATE=2674 MJD=54097 sdR-b1-00042258.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

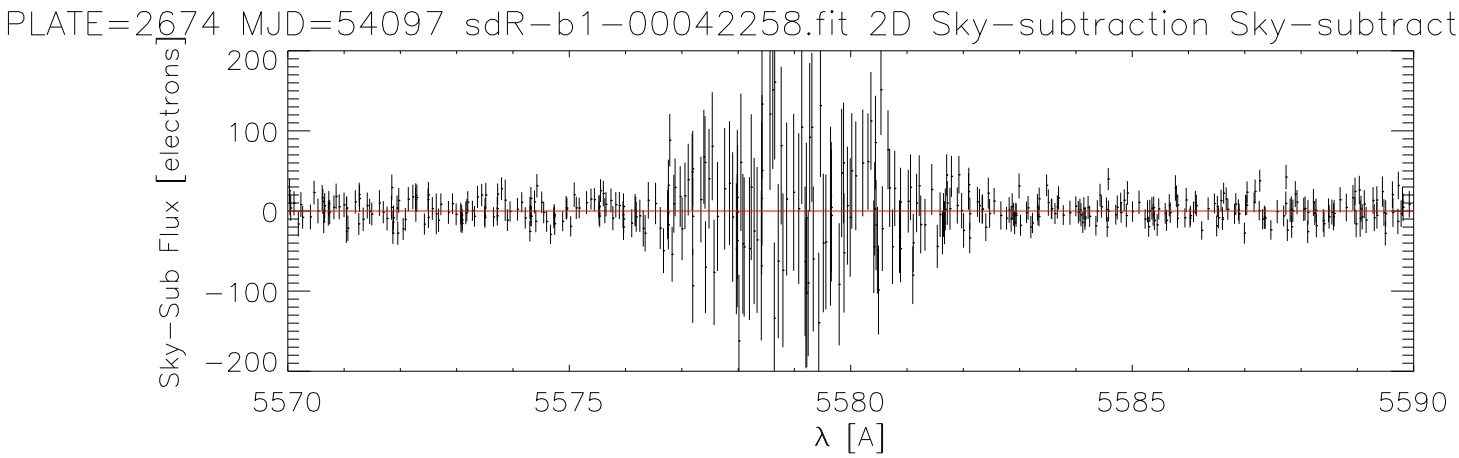

PLATE=2674 MJD=54097 sdR-b1-00042258.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

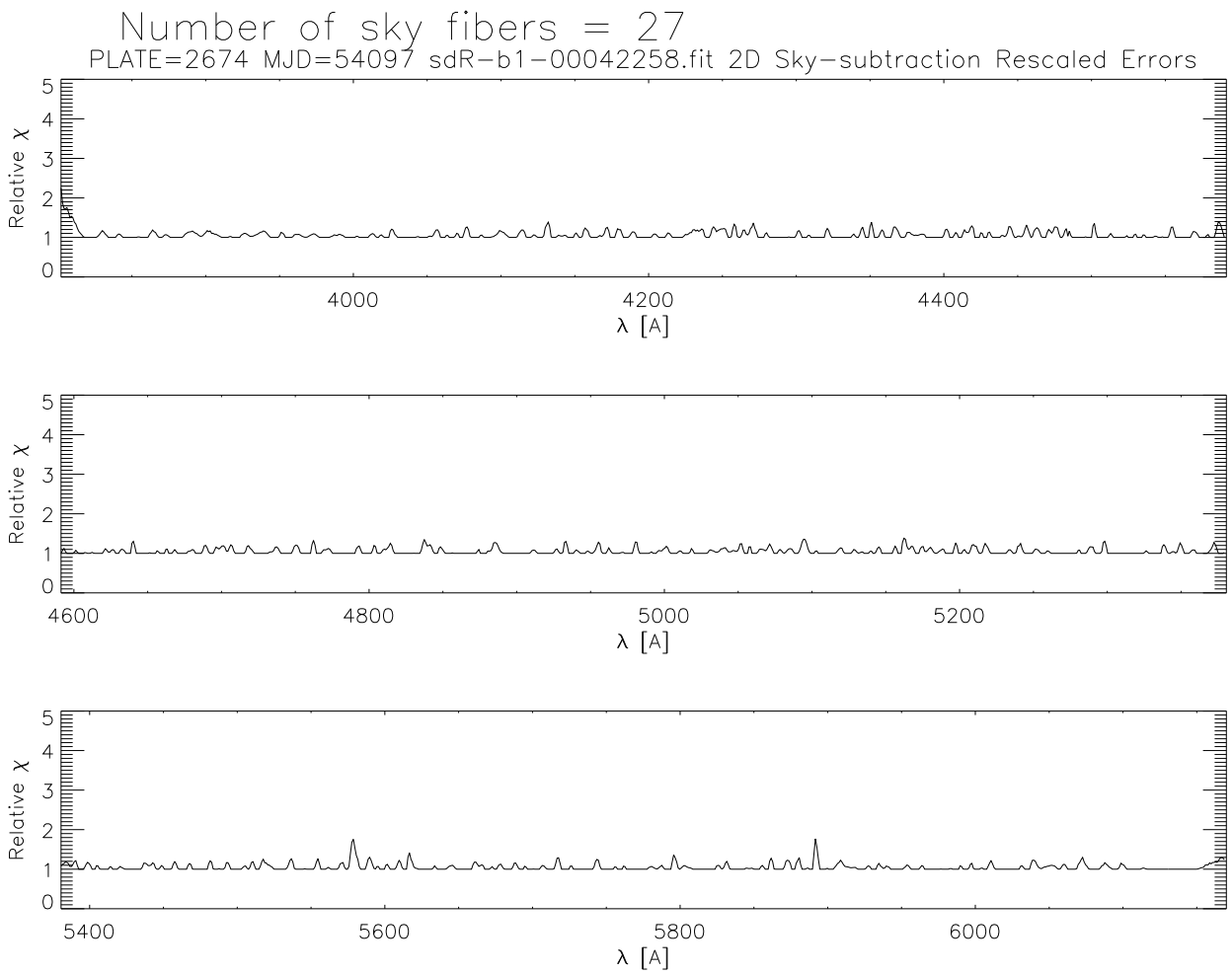

PLATE=2674 MJD=54097 sdR-b1-00042258.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

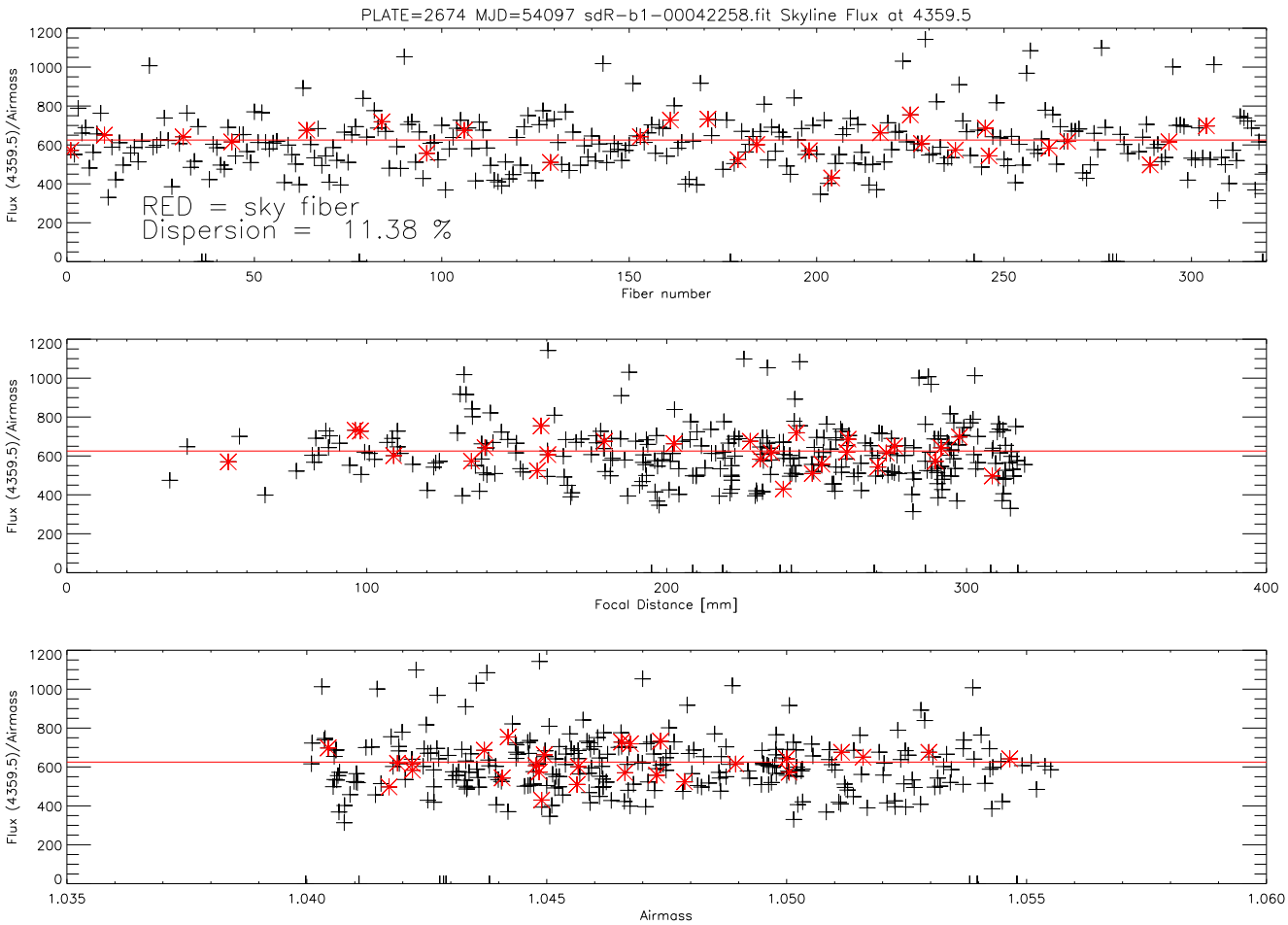

Number of sky fibers = 27
PLATE=2674 MJD=54097 sdR-b1-00042258.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

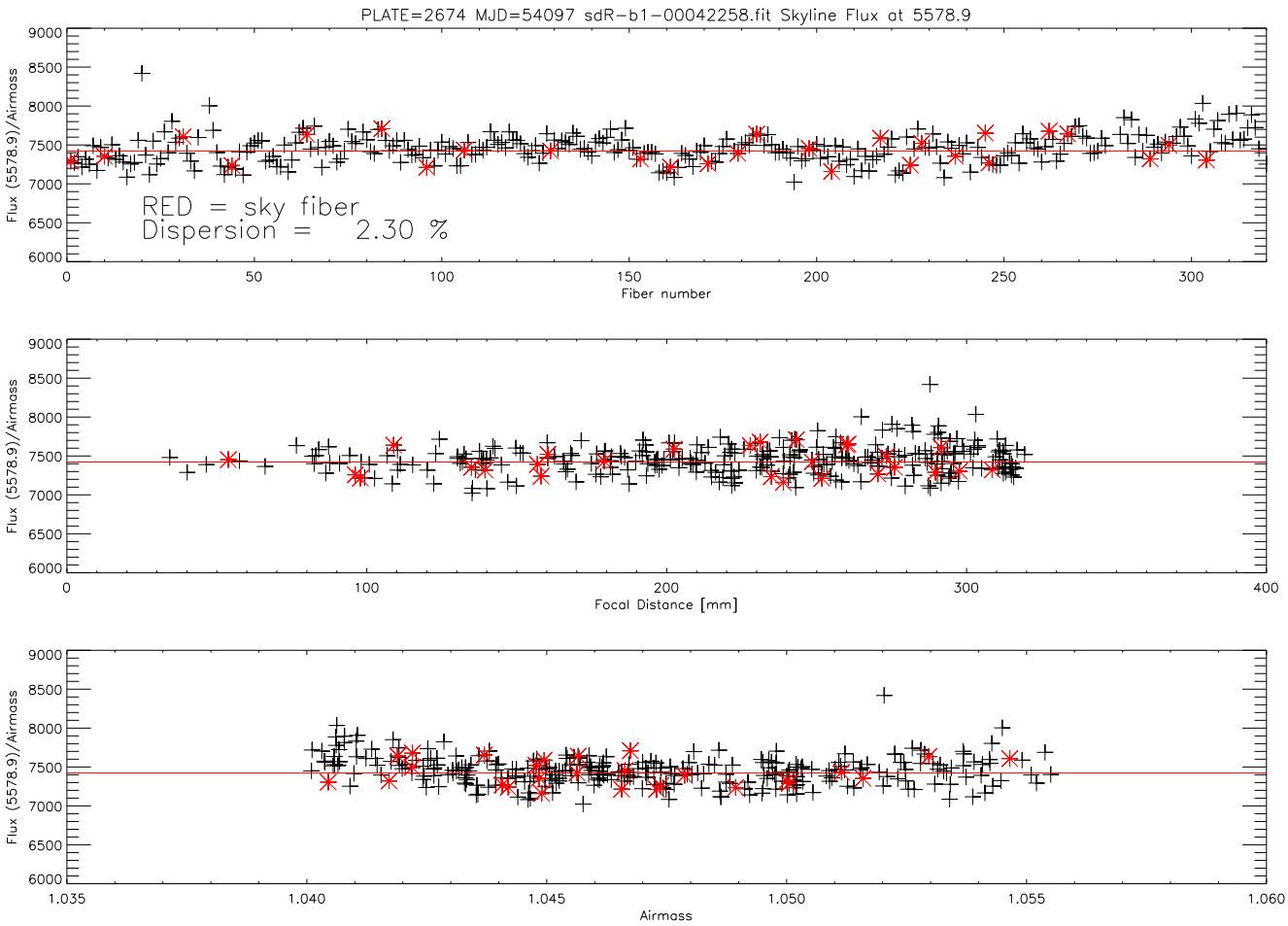

PLATE=2674 MJD=54097 sdR-b1-00042258.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

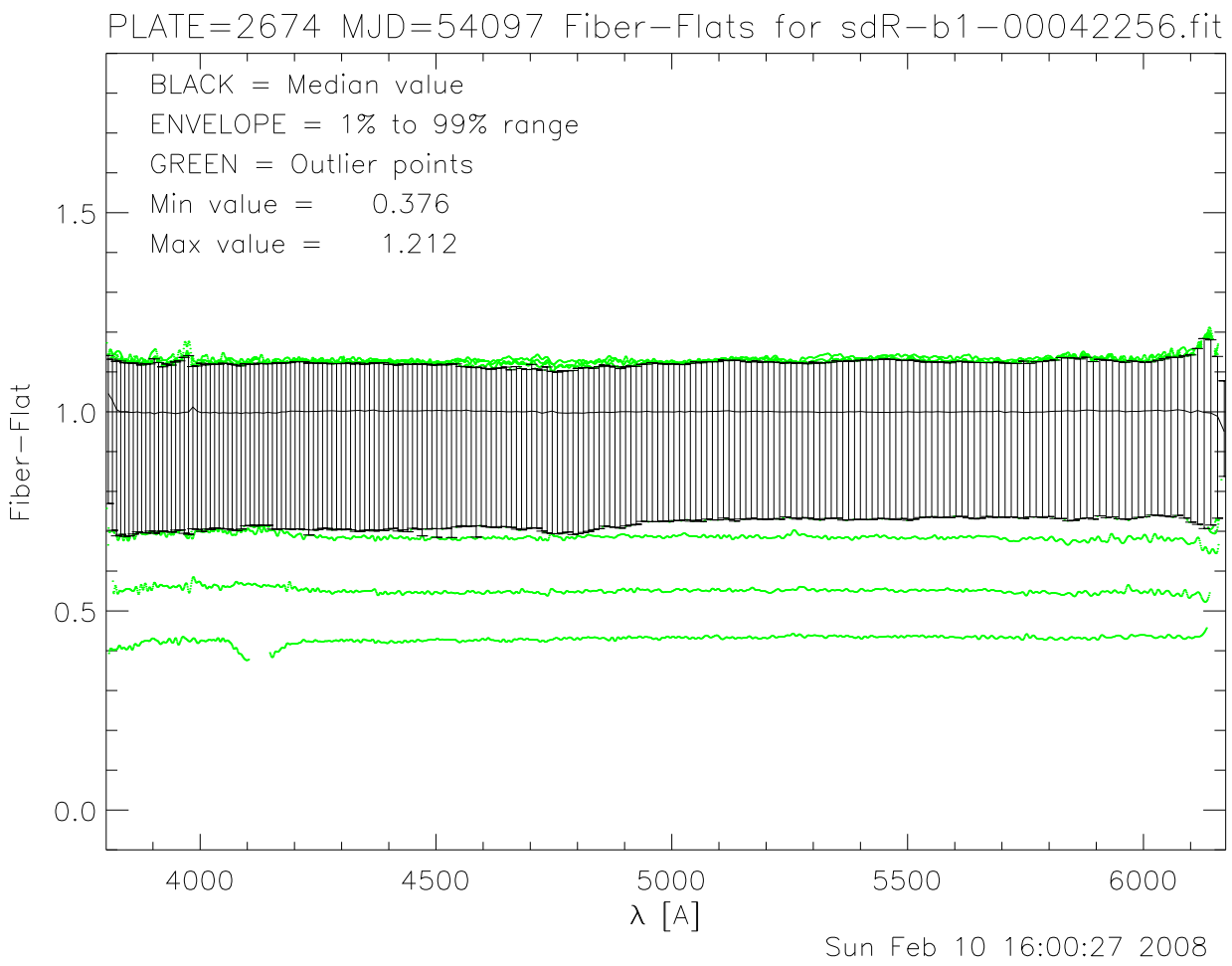

PLATE=2674 MJD=54097 sdR-b1-00042258.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

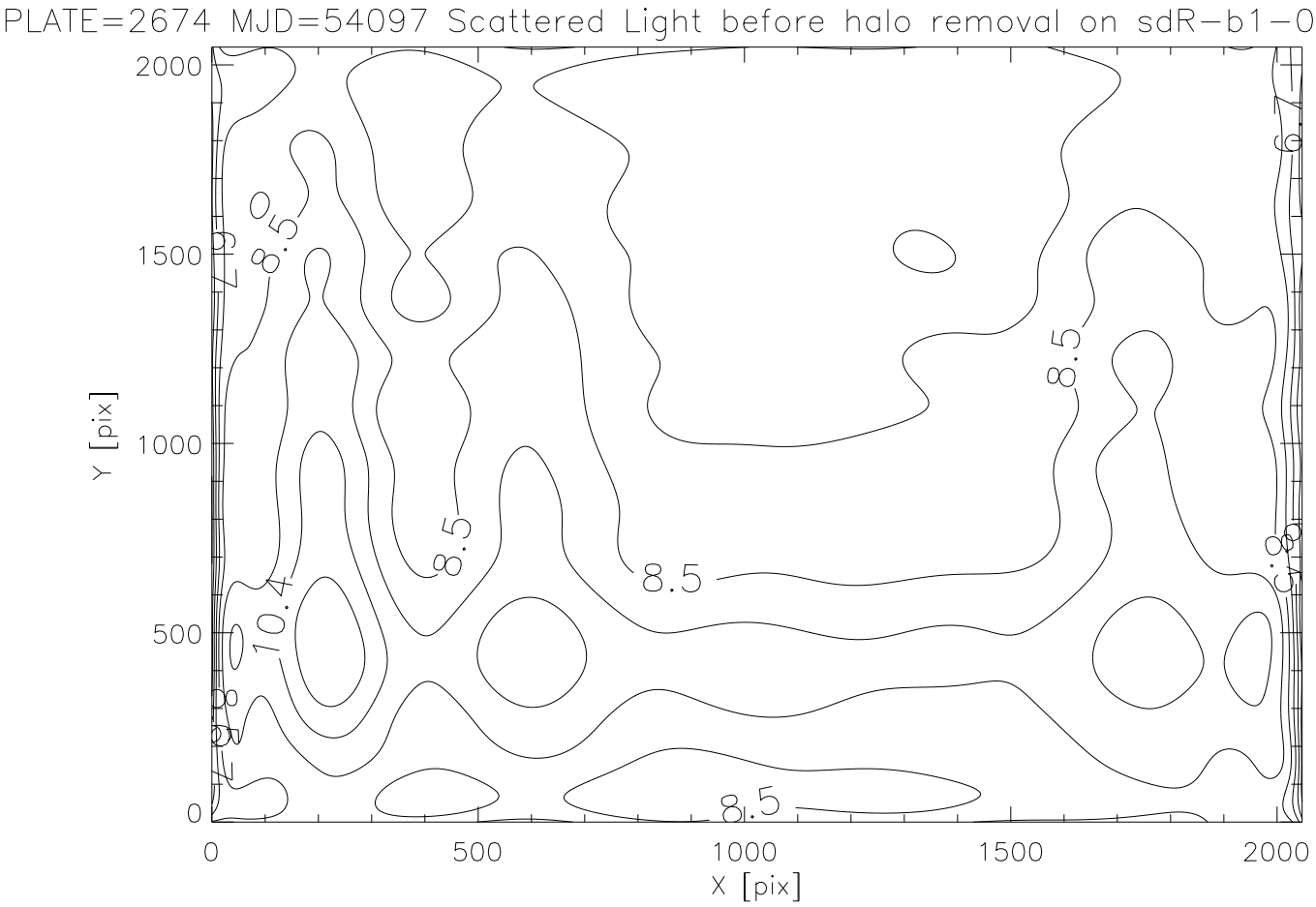

PLATE=2674 MJD=54097 sdR-b1-00042258.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

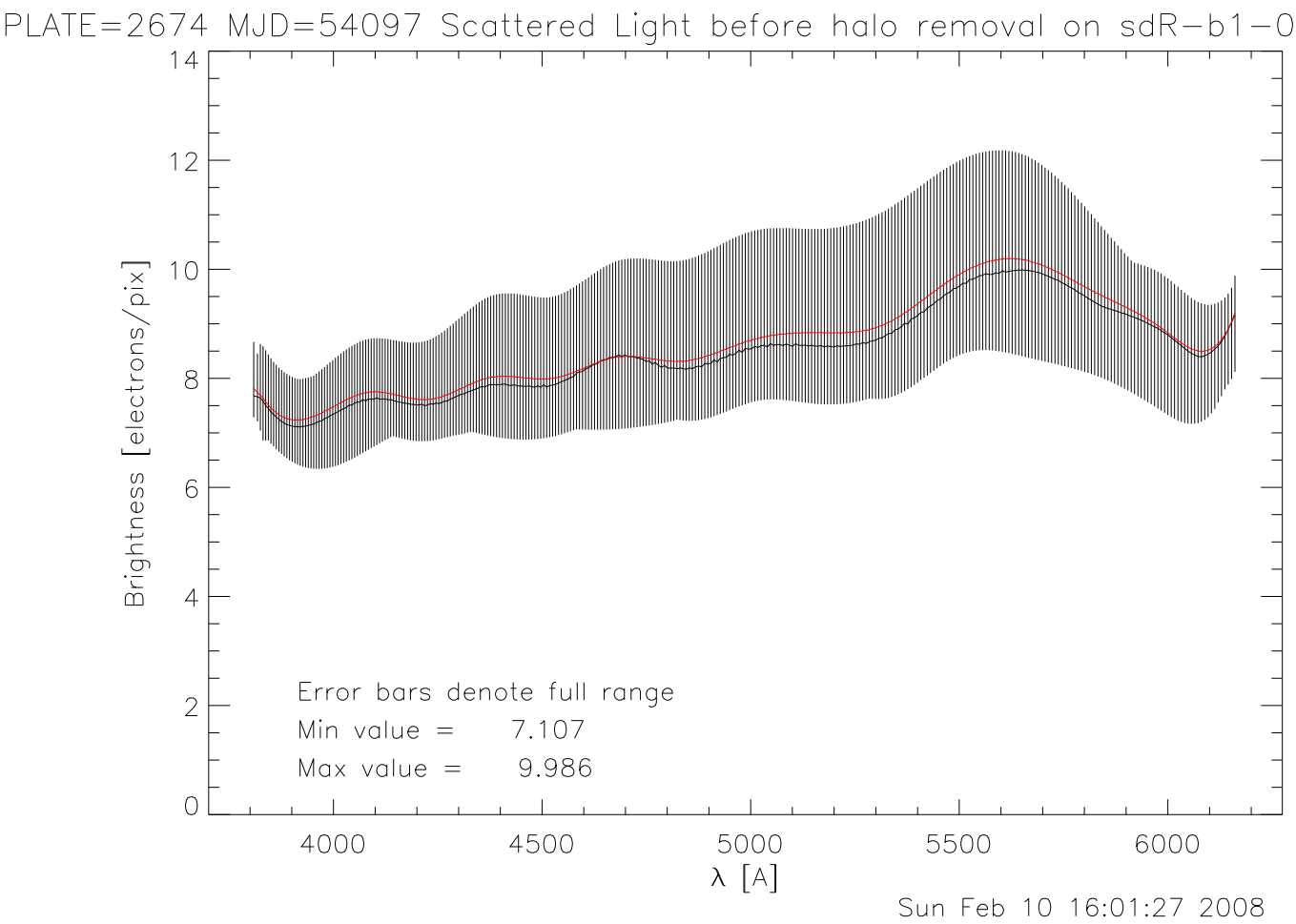

Number of sky fibers = 27
PLATE=2674 MJD=54097 sdR-b1-00042258.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

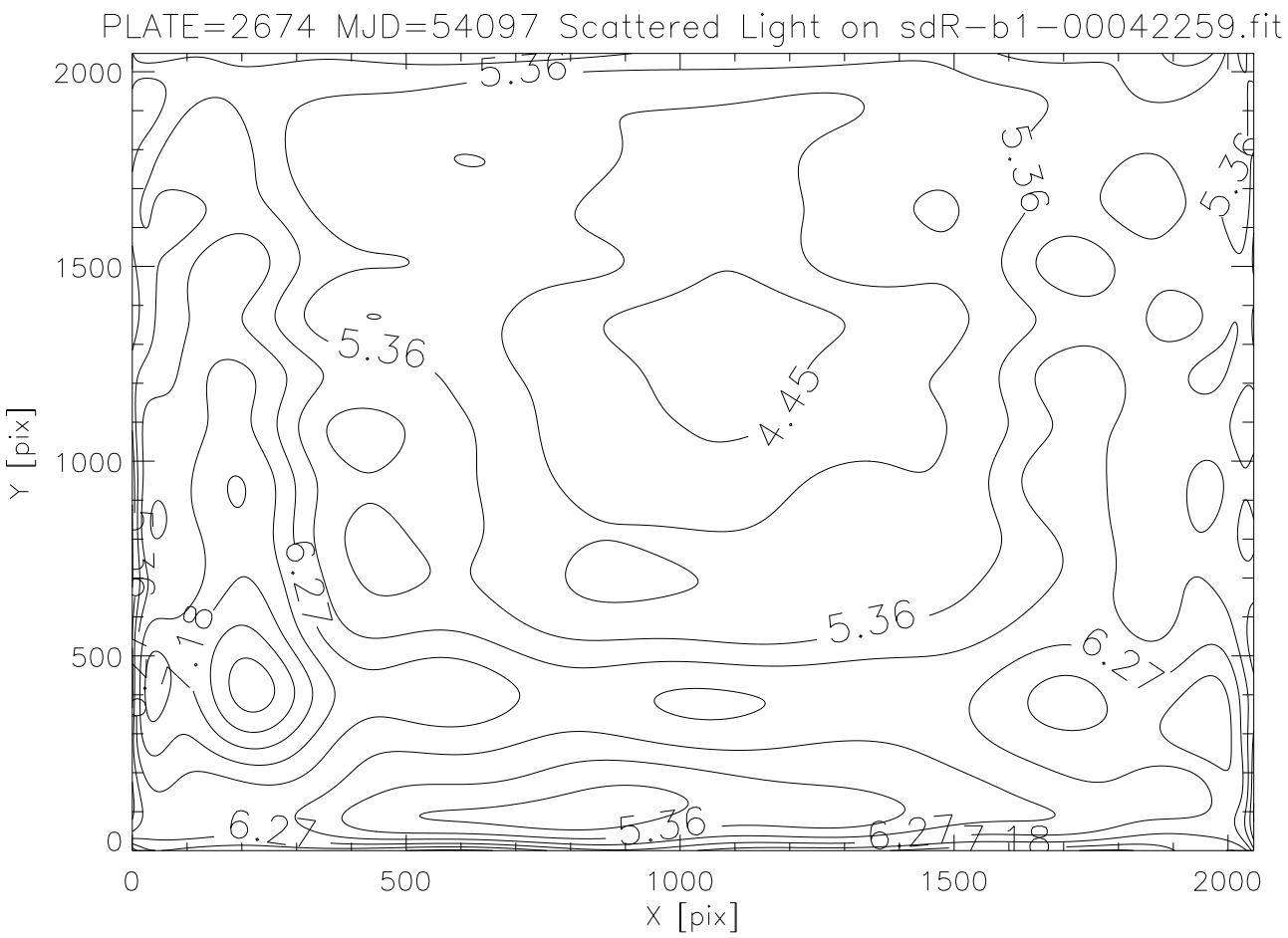

PLATE=2674 MJD=54097 sdR-b1-00042258.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 11.38 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

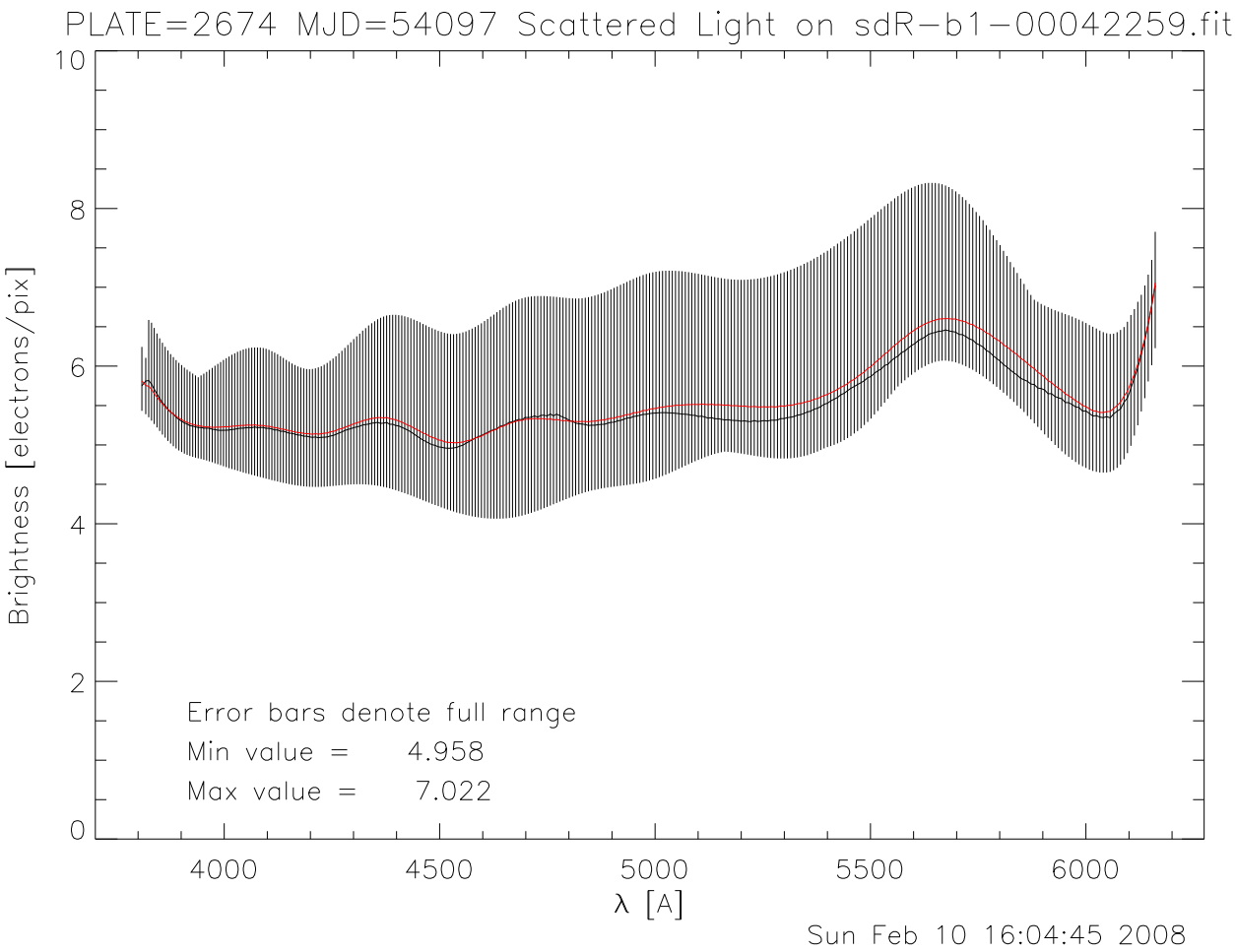

PLATE=2674 MJD=54097 sdR-b1-00042258.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.30 %
Fiber number
Focal Distance [mm]
Airmass

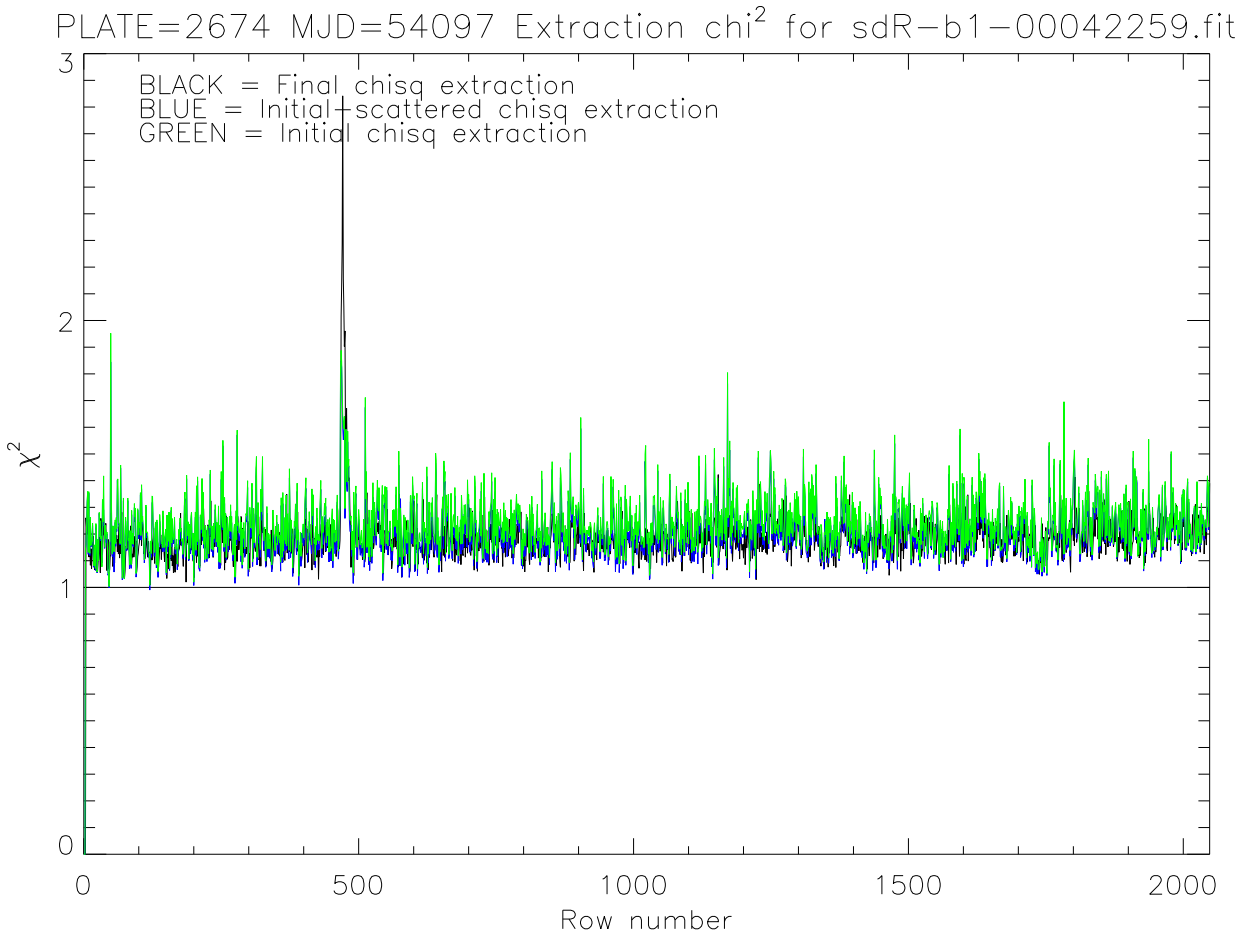

PLATE=2674 MJD=54097 Fiber−Flats for sdR−b1−00042256.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.376
Max value = 1.212
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sun Feb 10 16:00:27 2008

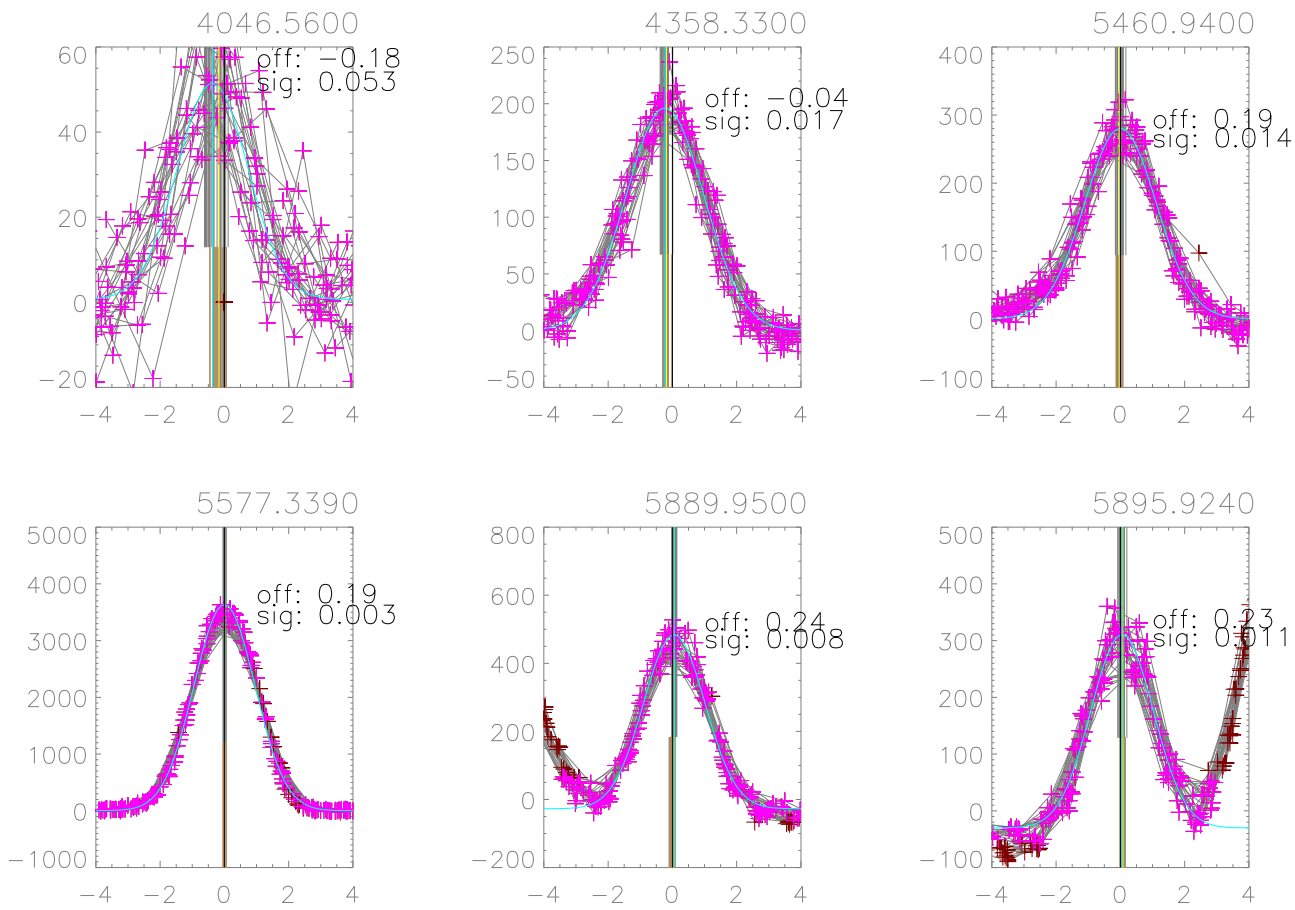

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR−b1−00042259.f
Y [pix]
X [pix]
0
500
1000
1500
2000
8.5
10.4
6.7

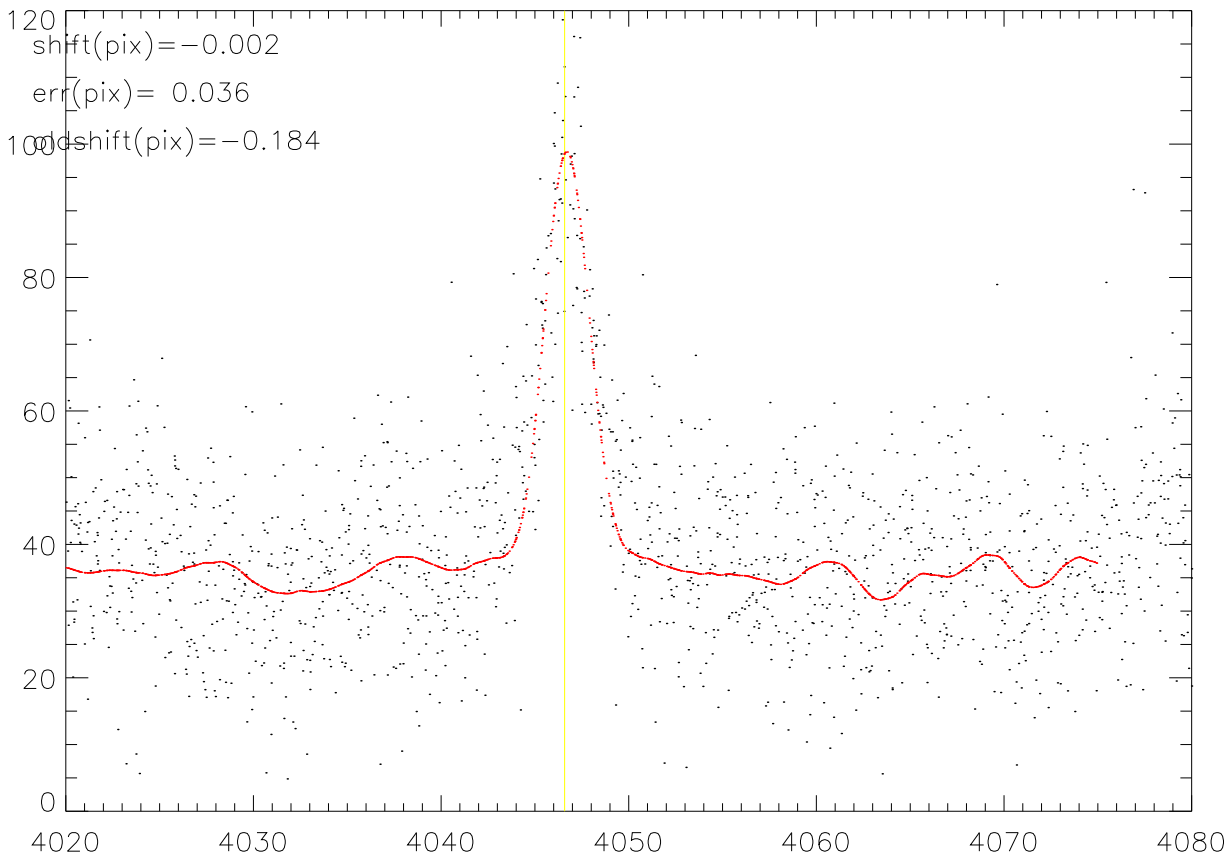

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR-b1-00042259.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.107
Max value = 9.986
Sun Feb 10 16:01:27 2008

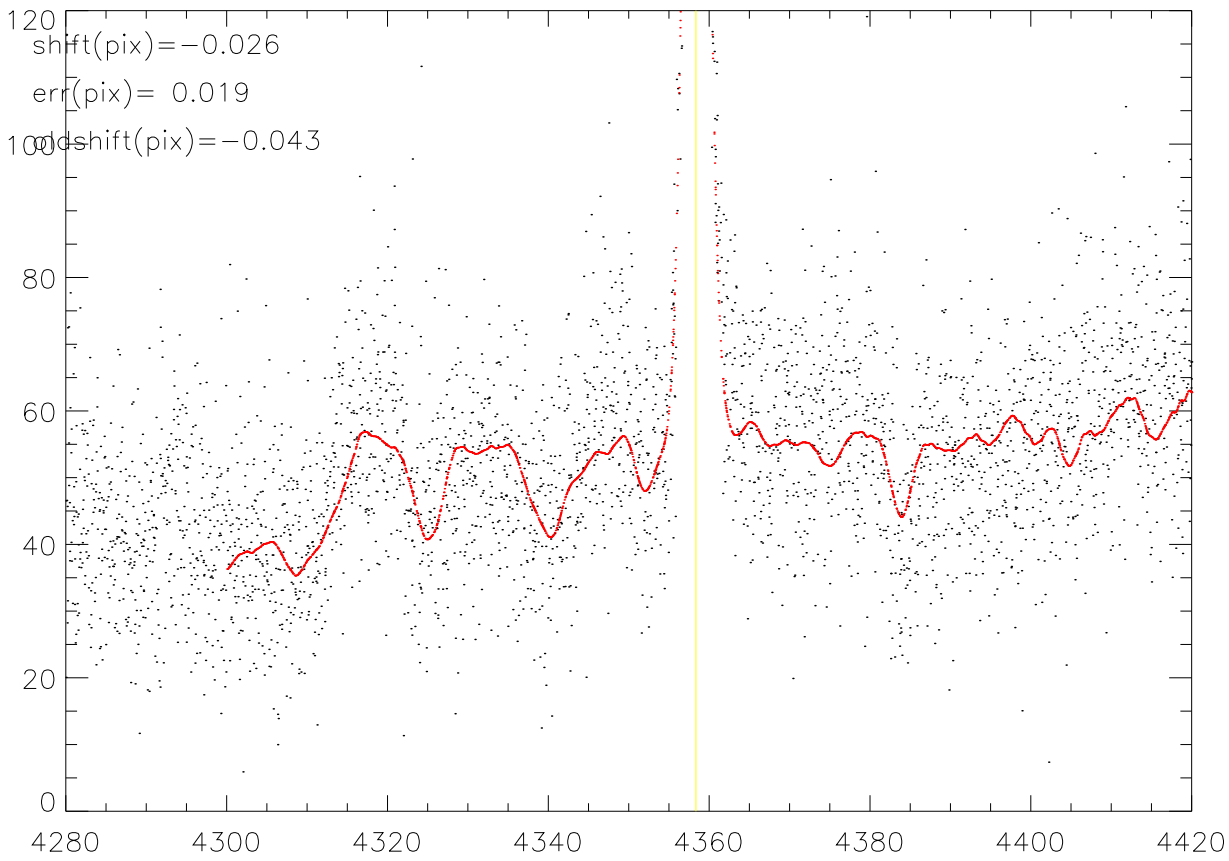

PLATE=2674 MJD=54097 Scattered Light on sdR-b1-00042259.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
5.36
4.45
6.27
7.18

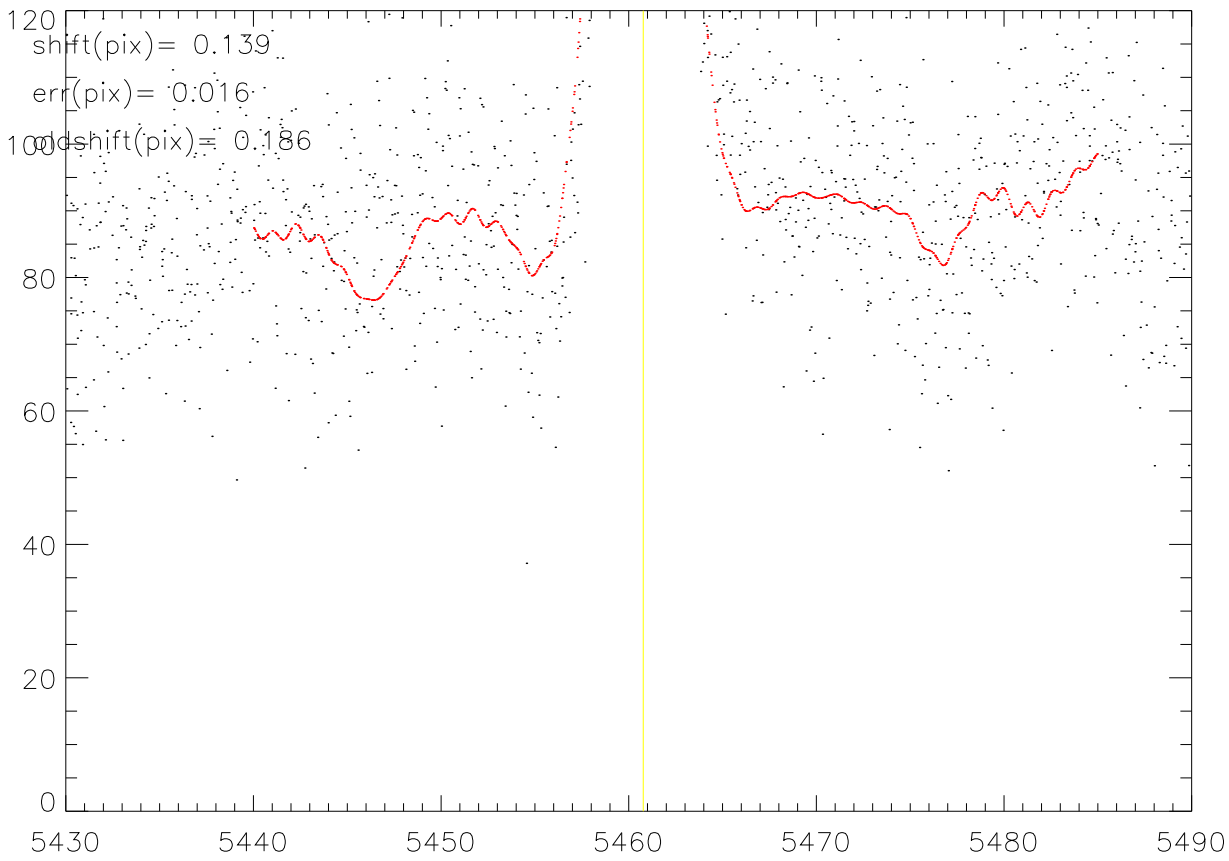

PLATE=2674 MJD=54097 Scattered Light on sdR-b1-00042259.fit
Brightness [electrons/pix]
10
8
6
4
2
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 4.958
Max value = 7.022
Sun Feb 10 16:04:45 2008

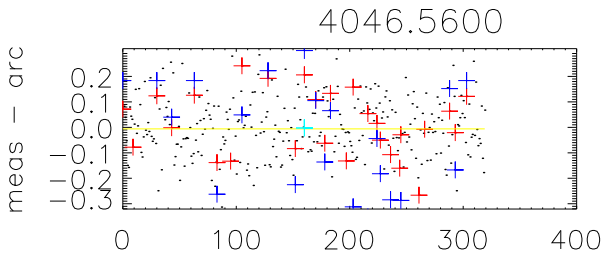

PLATE=2674 MJD=54097 Extraction chi^2 for sdR-b1-00042259.fit
BLACK = Final chisq extraction
BLUE = Initial+scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
0
500
1000
1500
2000
Row number

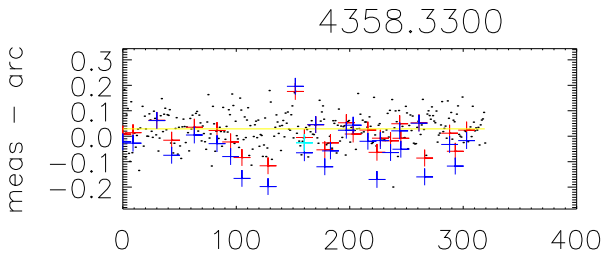

4046.5600
off: −0.18
sig: 0.053
4358.3300
off: −0.04
sig: 0.017
5460.9400
off: 0.19
sig: 0.014
5577.3390
off: 0.19
sig: 0.003
5889.9500
off: 0.24
sig: 0.008
5895.9240
off: 0.23
sig: 0.011

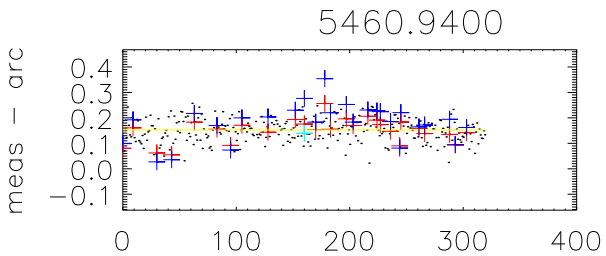

shift(pix)=−0.002
err(pix)= 0.036
oldshift(pix)=−0.184
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

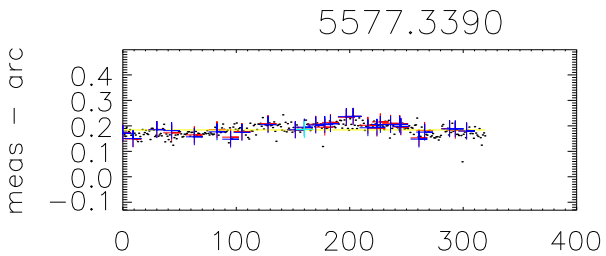

shift(pix)=−0.026
err(pix)= 0.019
oldshift(pix)=−0.043
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

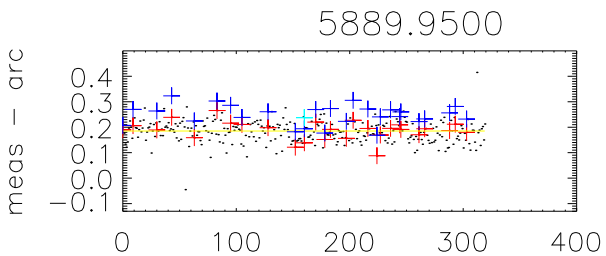

shift(pix)= 0.139
err(pix)= 0.016
oldshift(pix)= 0.186
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

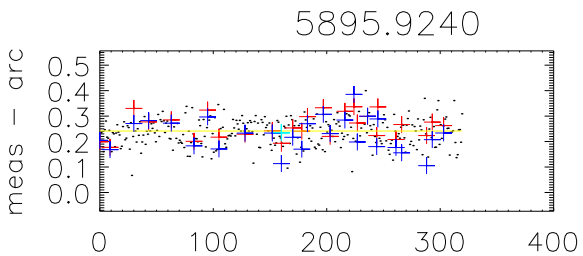

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

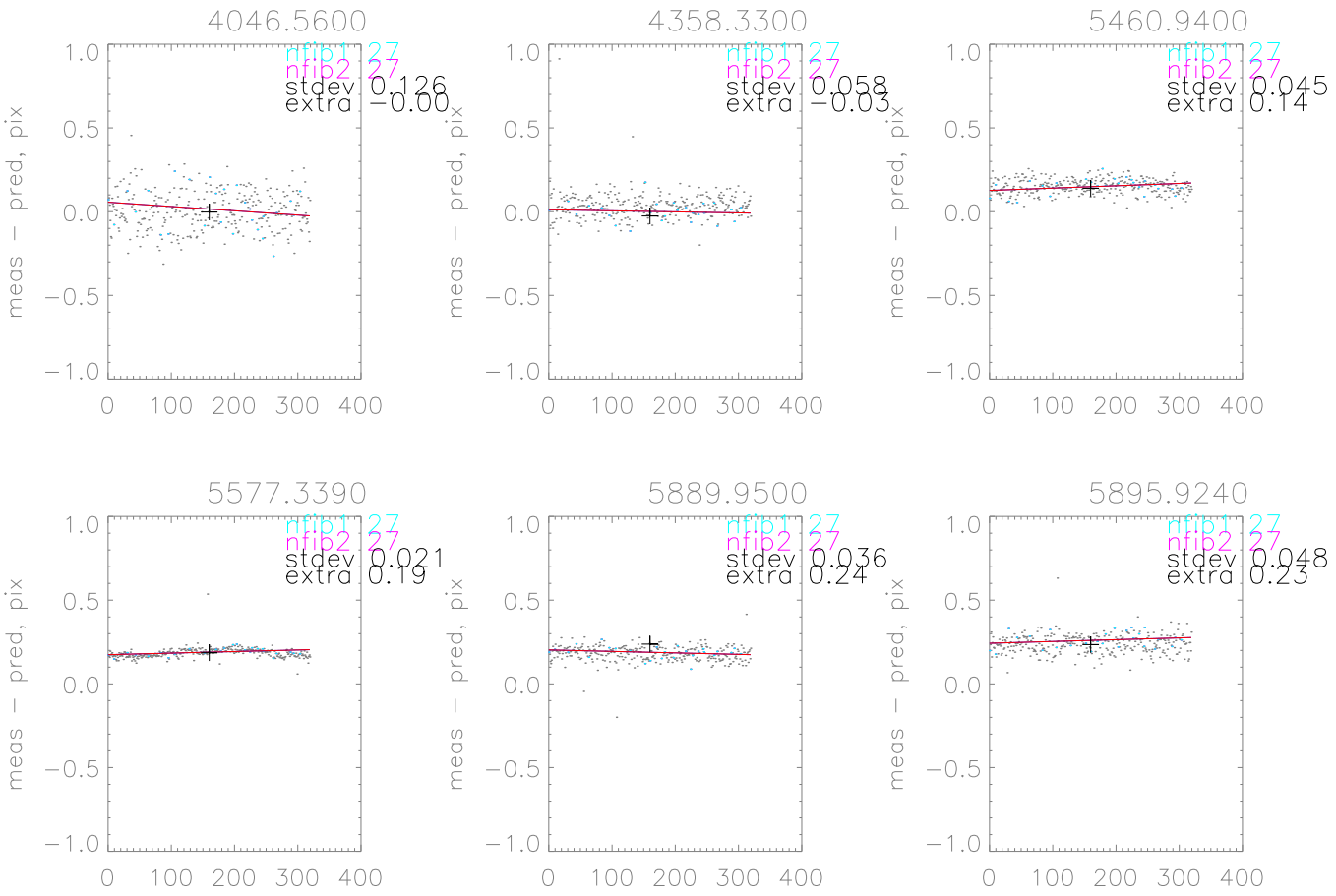

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

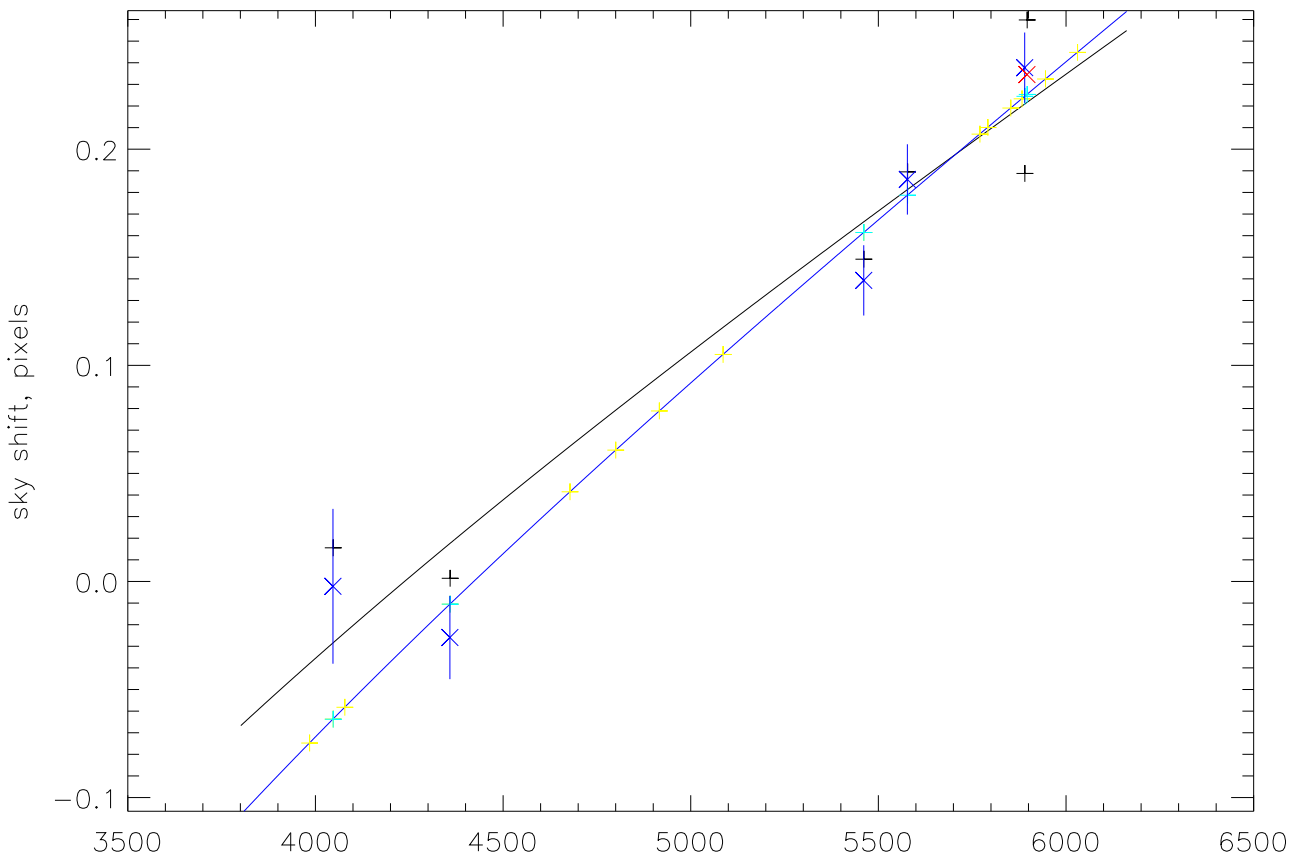

5460.9400
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

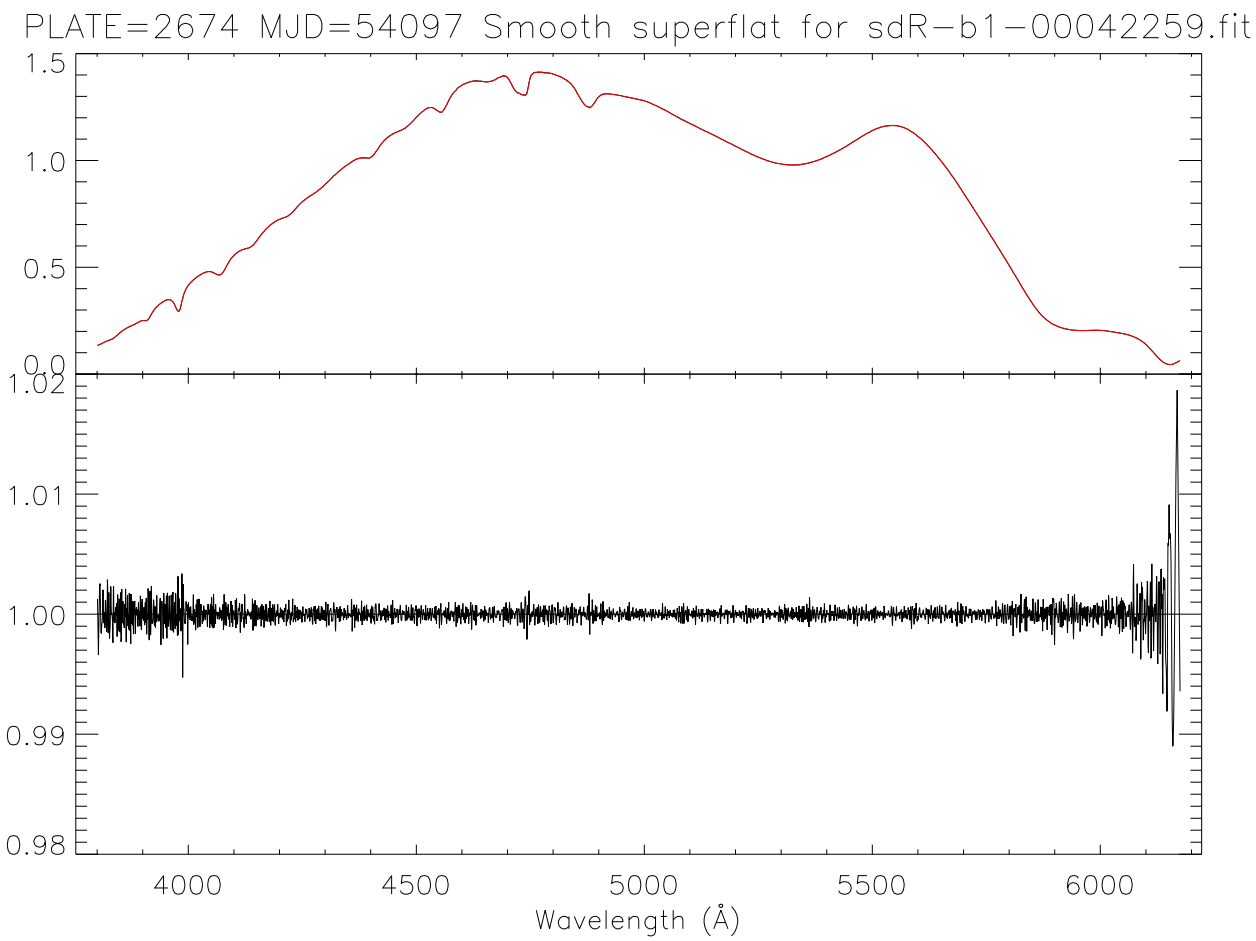

5889.9500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

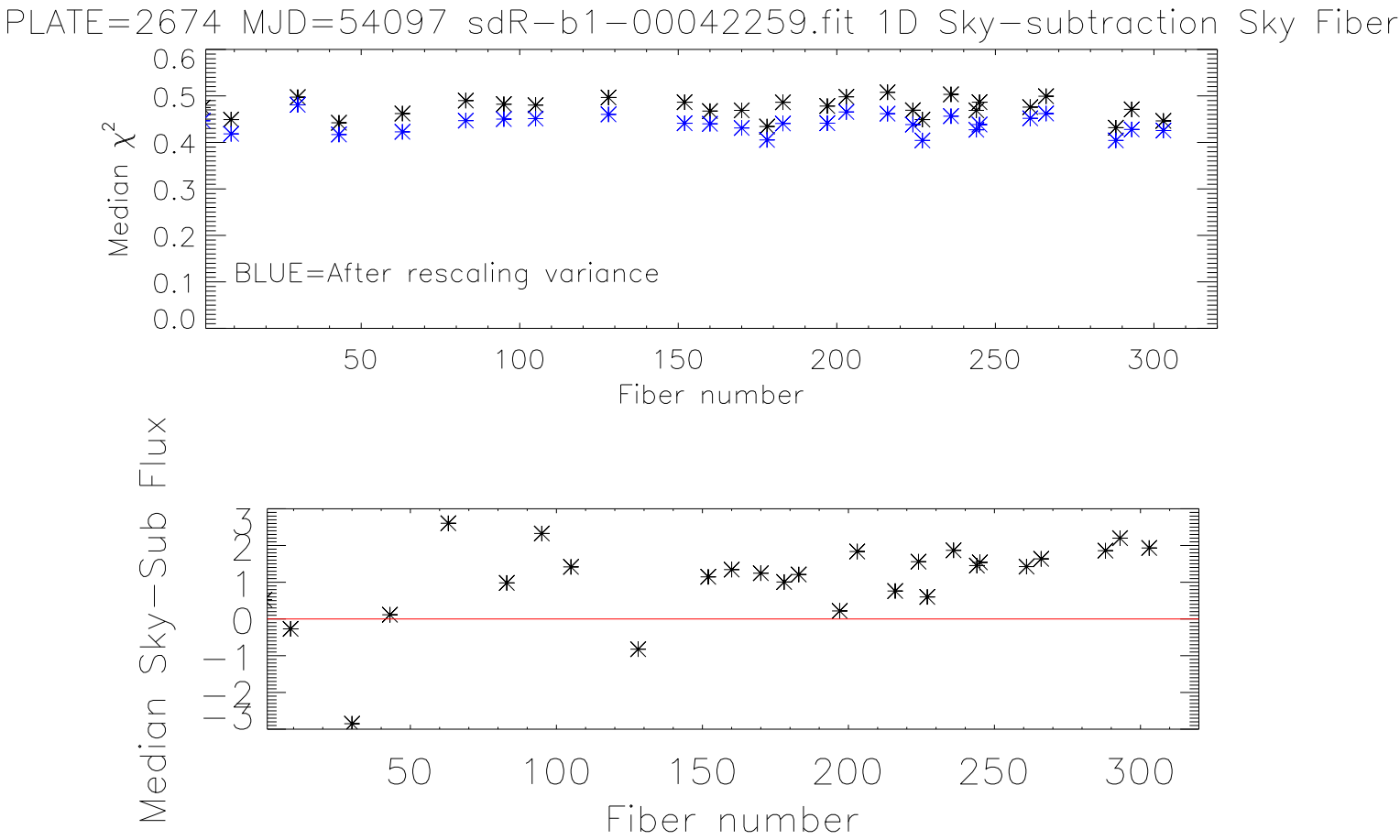

5895.9240
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

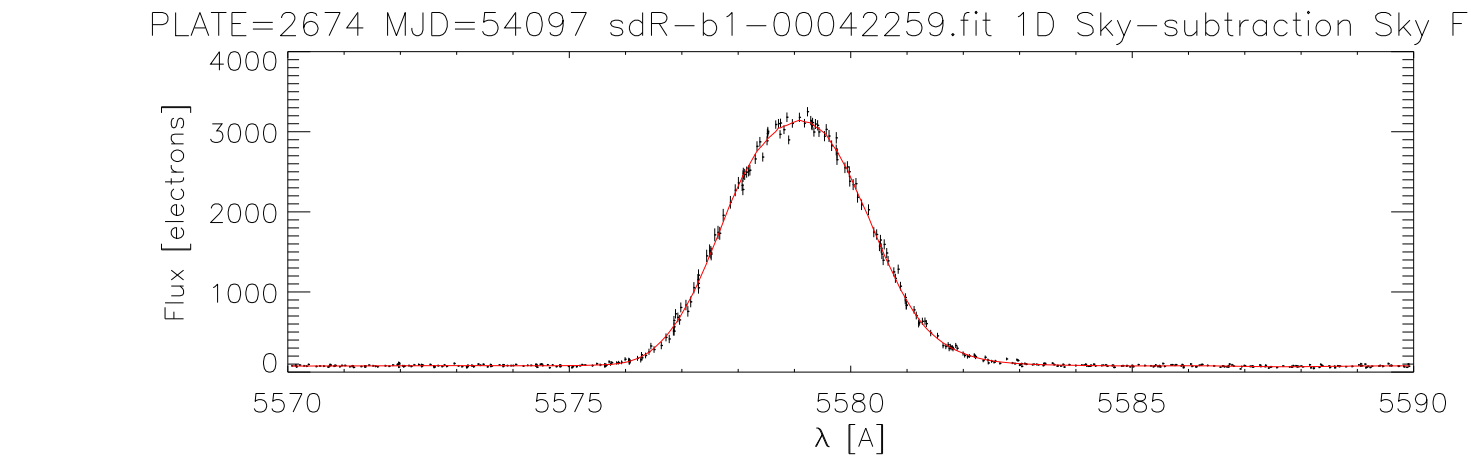

4046.5600
nfib1 27
nfib2 27
stdev 0.126
extra −0.00
4358.3300
nfib1 27
nfib2 27
stdev 0.058
extra −0.03
5460.9400
nfib1 27
nfib2 27
stdev 0.045
extra 0.14
5577.3390
nfib1 27
nfib2 27
stdev 0.021
extra 0.19
5889.9500
nfib1 27
nfib2 27
stdev 0.036
extra 0.24
5895.9240
nfib1 27
nfib2 27
stdev 0.048
extra 0.23
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

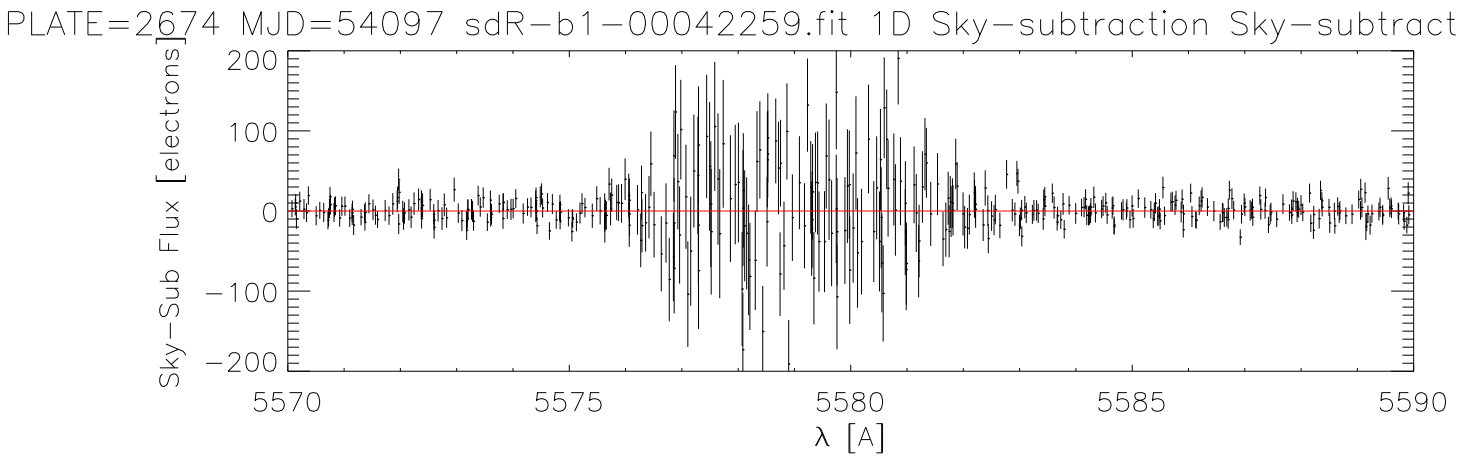

sky shift, pixels
0.2
0.1
0.0
−0.1
3500
4000
4500
5000
5500
6000
6500

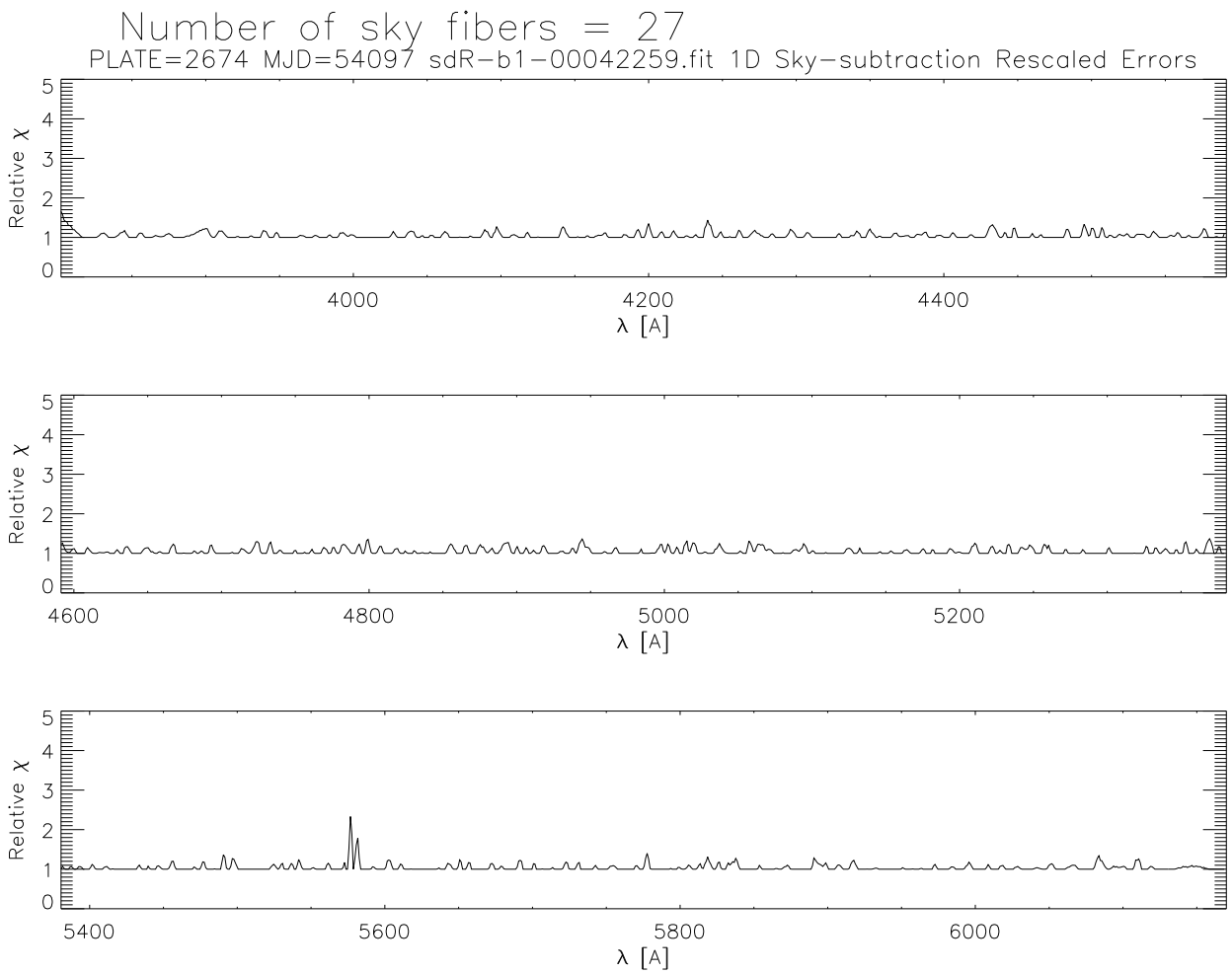
es= −0.0001

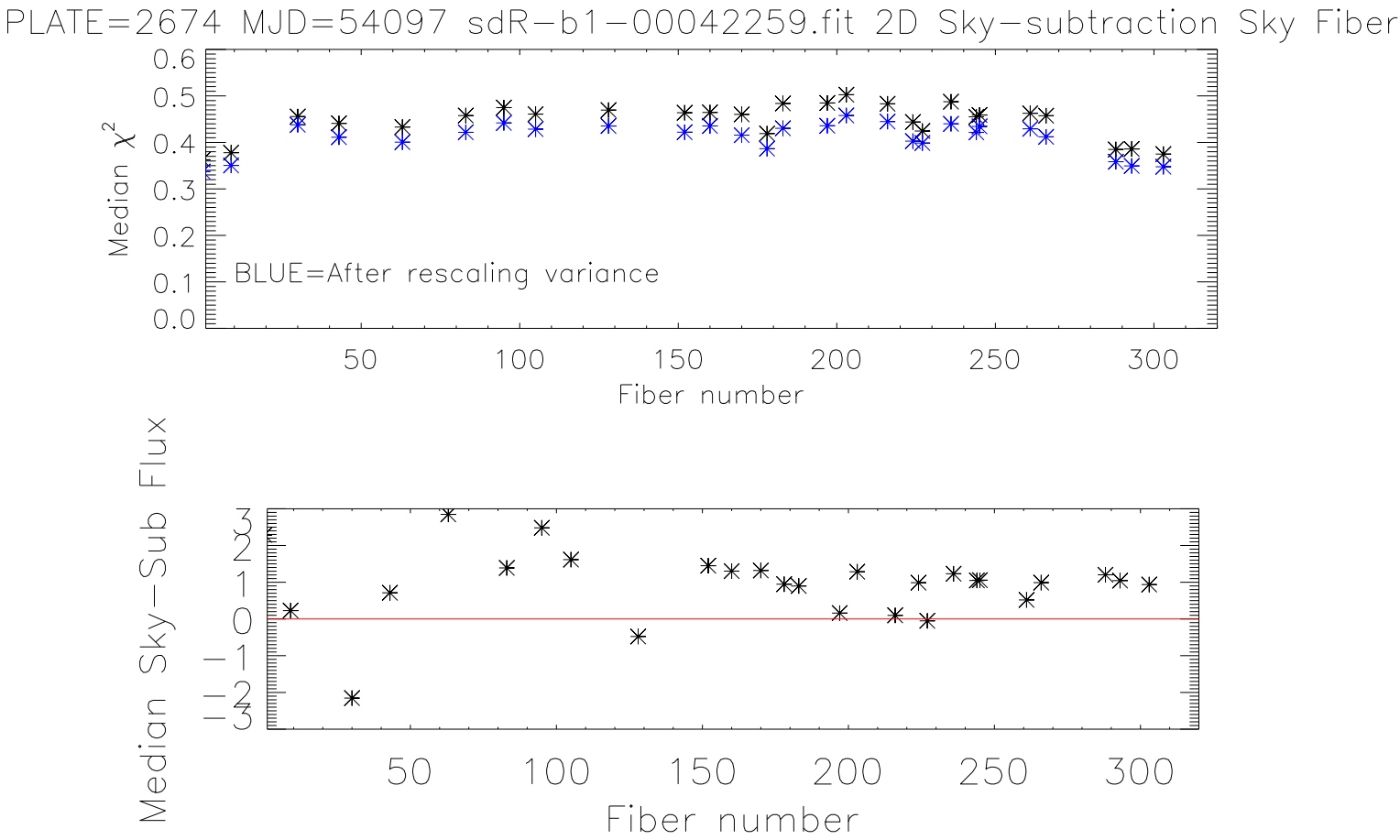

PLATE=2674 MJD=54097 Smooth superflat for sdR−b1−00042259.fit
1.5
1.0
0.5
0.0
1.02
1.01
1.00
0.99
0.98
4000
4500
5000
5500
6000
Wavelength (Å)

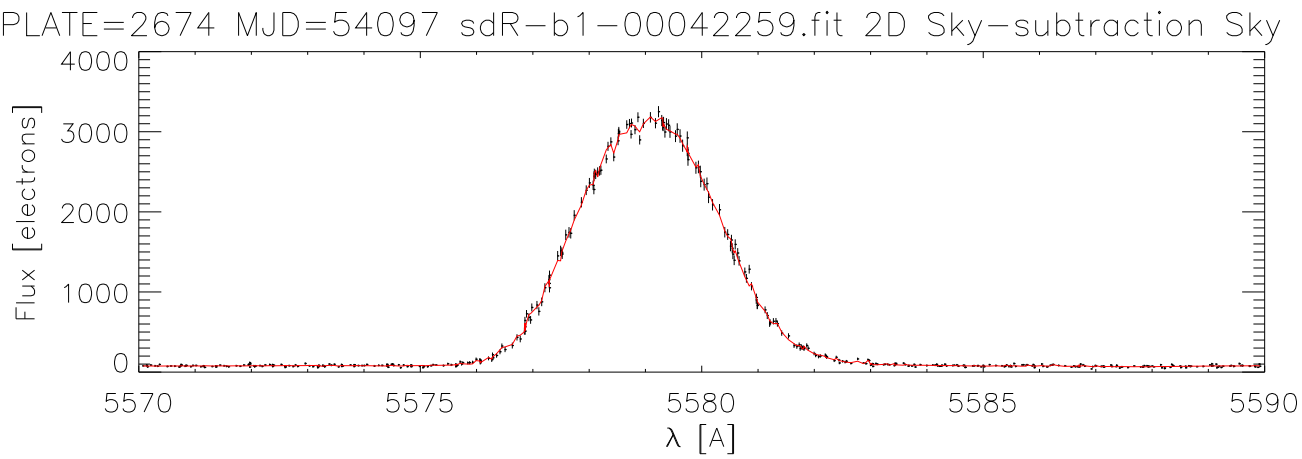

PLATE=2674 MJD=54097 sdR-b1-00042259.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

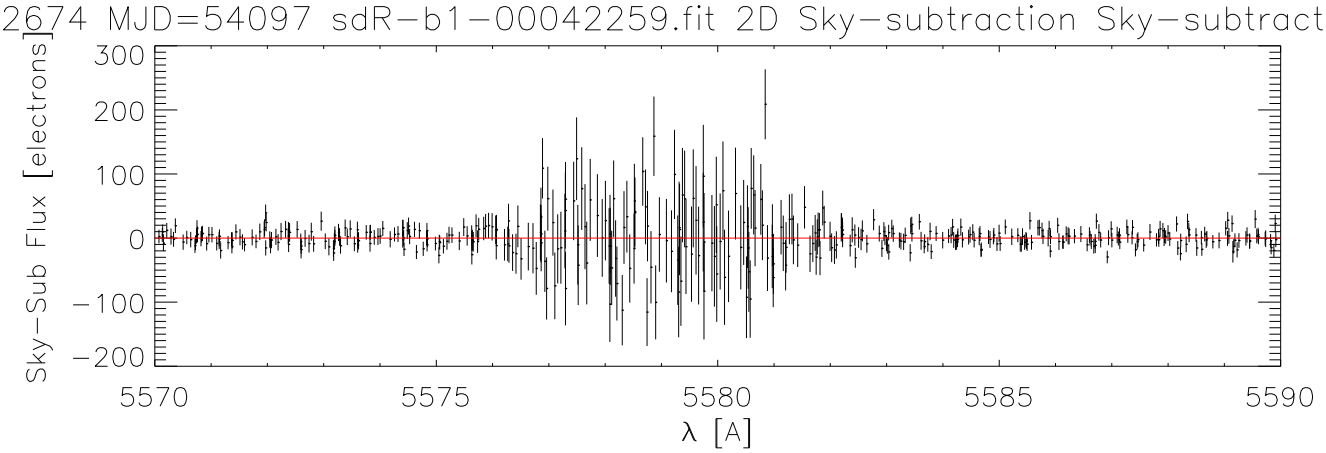

PLATE=2674 MJD=54097 sdR-b1-00042259.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

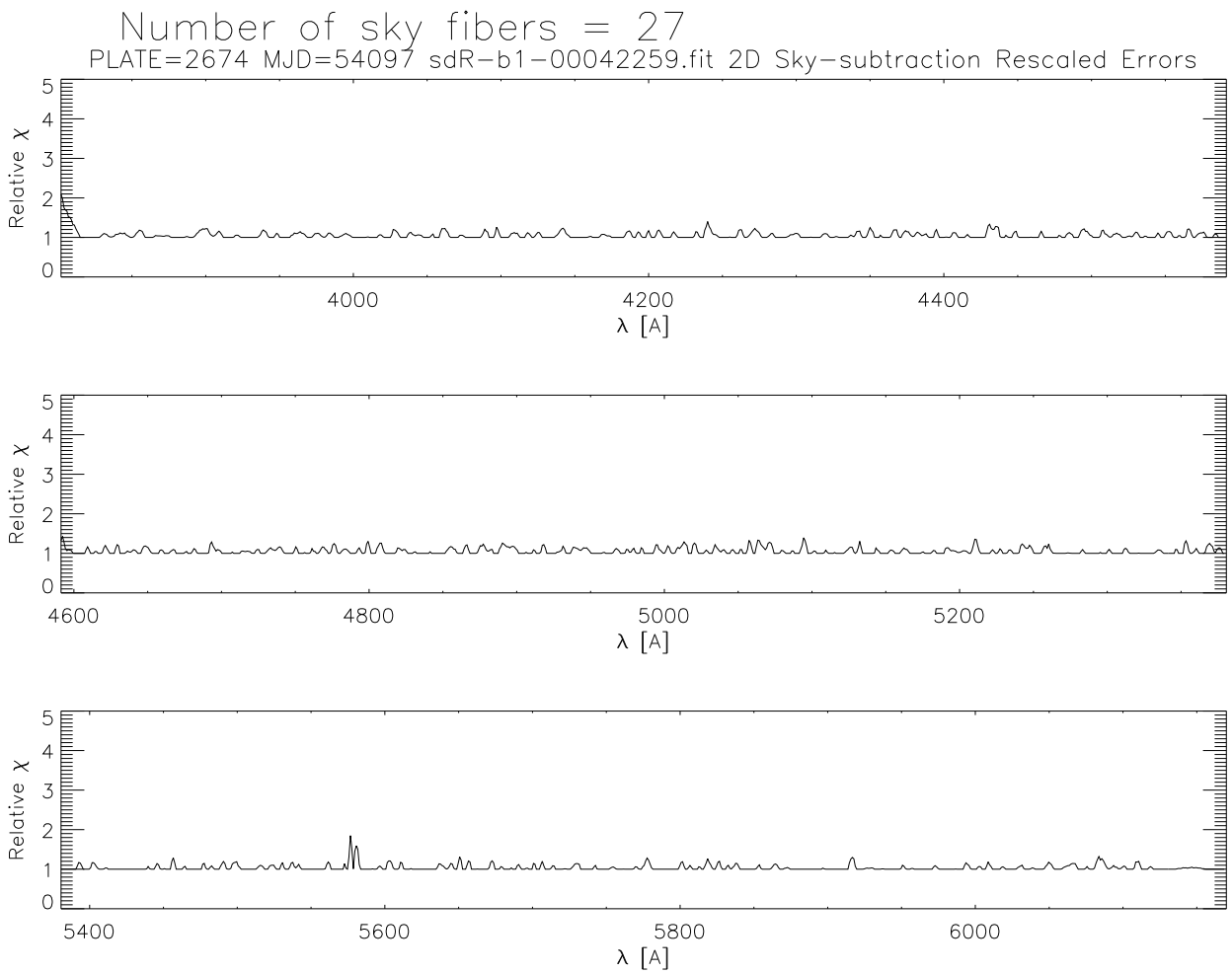

PLATE=2674 MJD=54097 sdR-b1-00042259.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

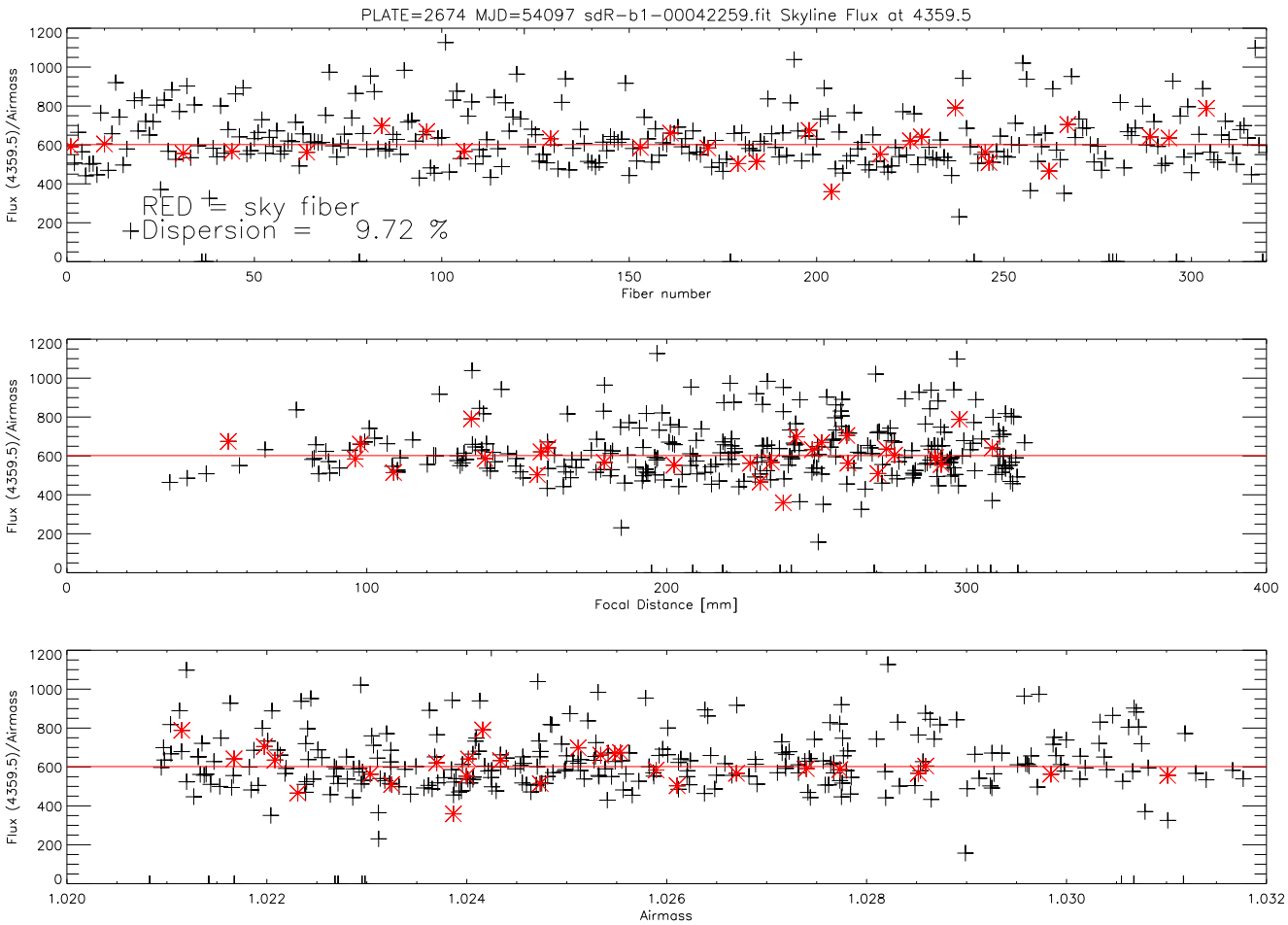

Number of sky fibers = 27
PLATE=2674 MJD=54097 sdR-b1-00042259.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

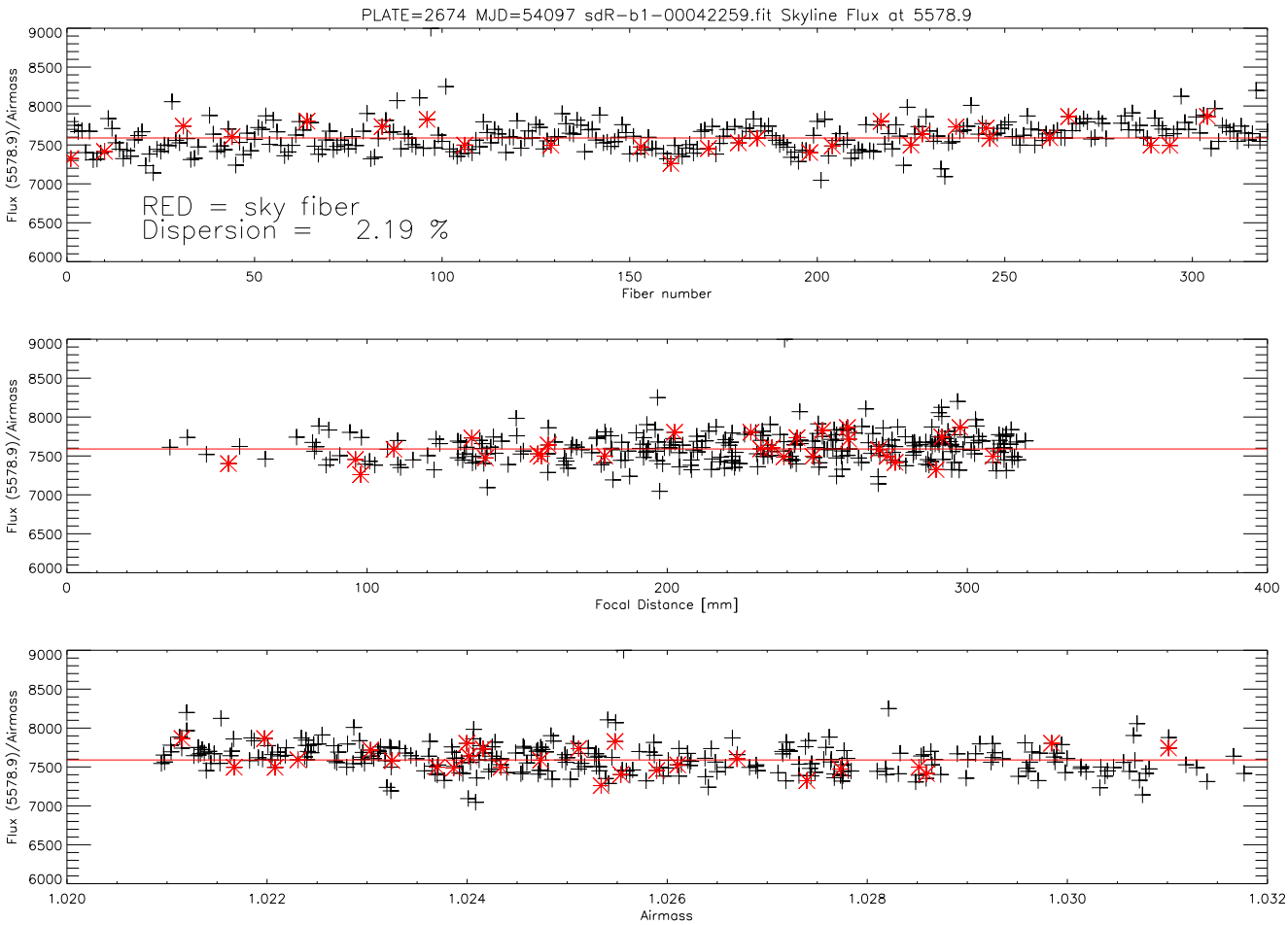

PLATE=2674 MJD=54097 sdR-b1-00042259.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

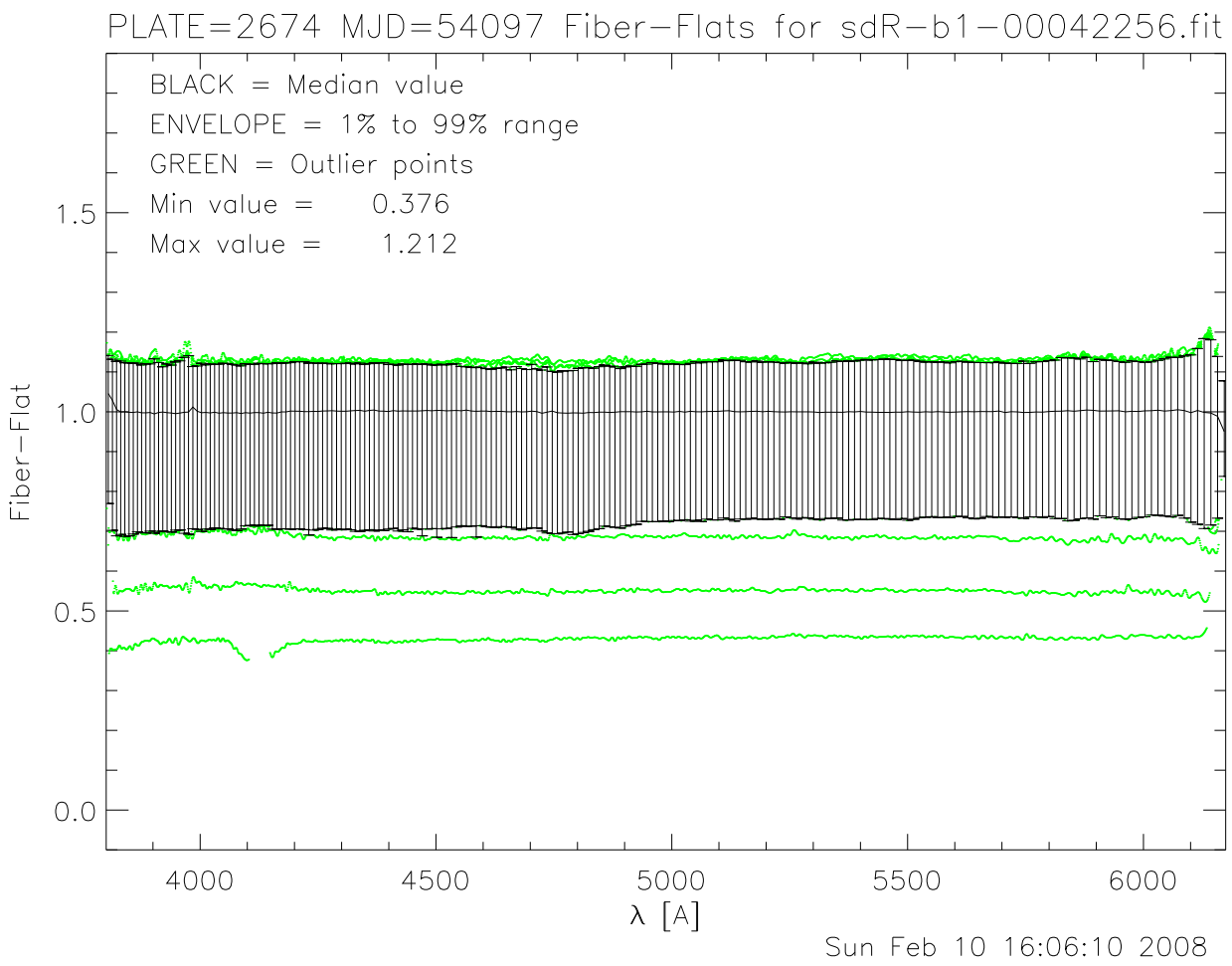

PLATE=2674 MJD=54097 sdR-b1-00042259.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

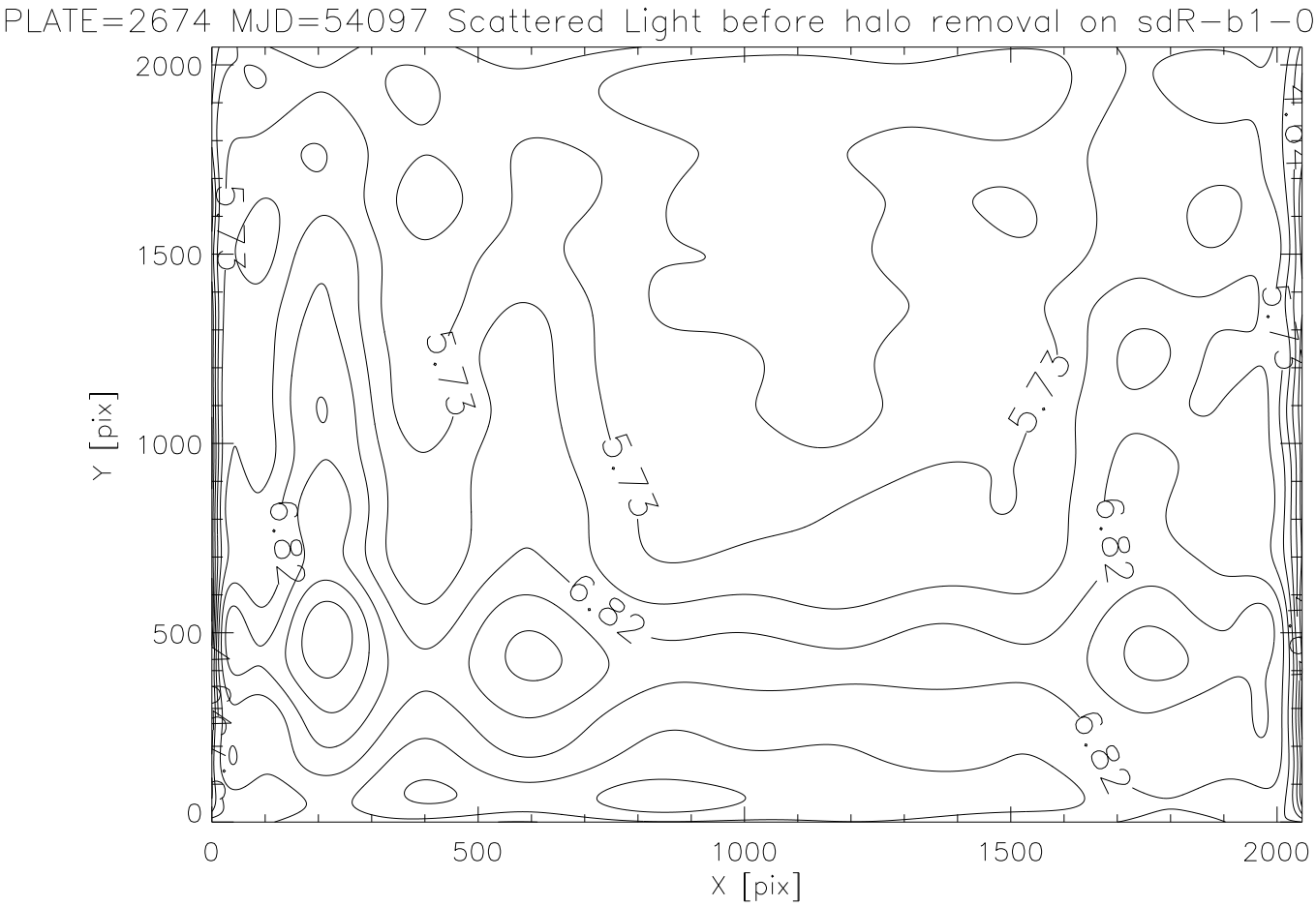

PLATE=2674 MJD=54097 sdR-b1-00042259.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

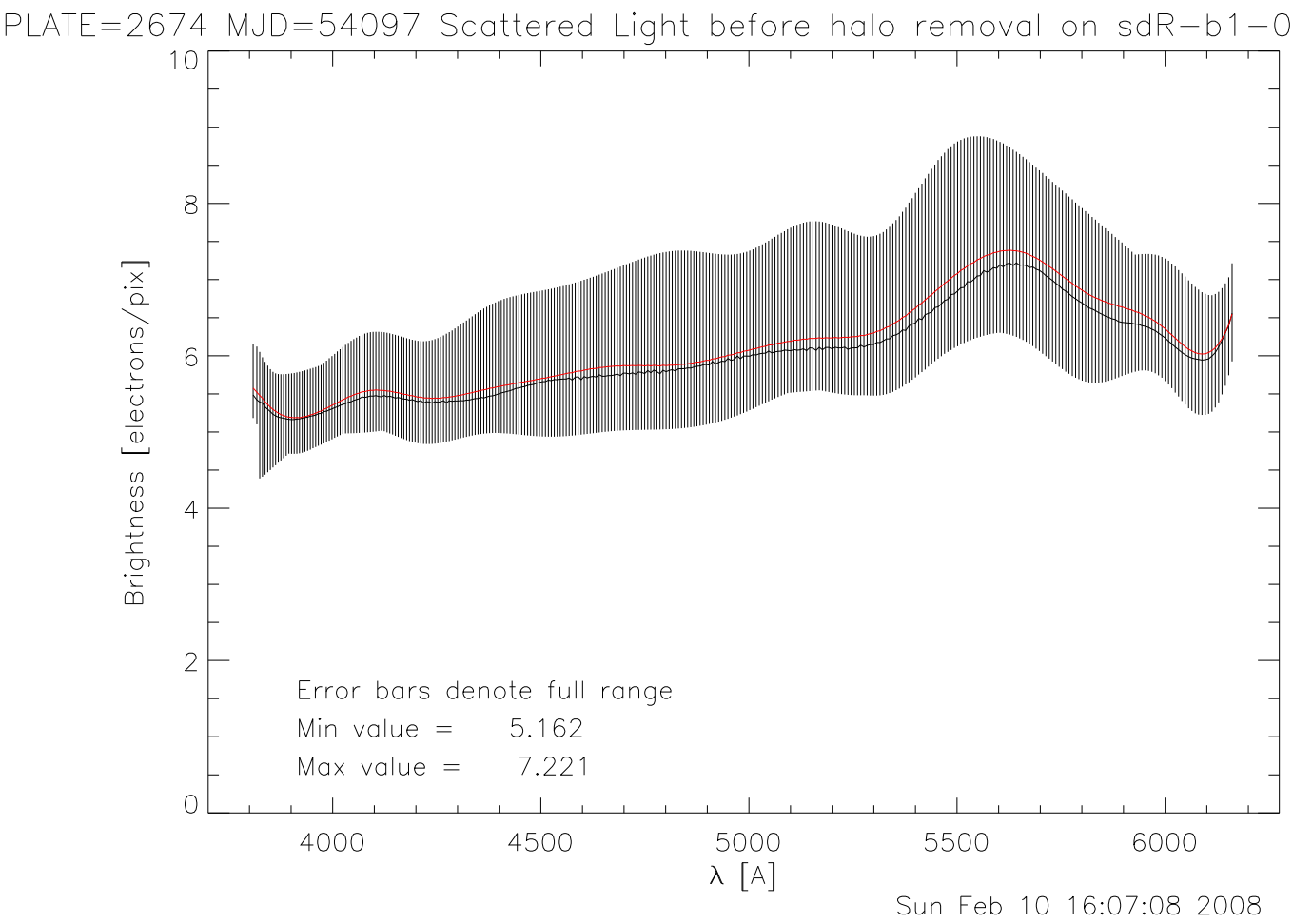

Number of sky fibers = 27
PLATE=2674 MJD=54097 sdR-b1-00042259.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

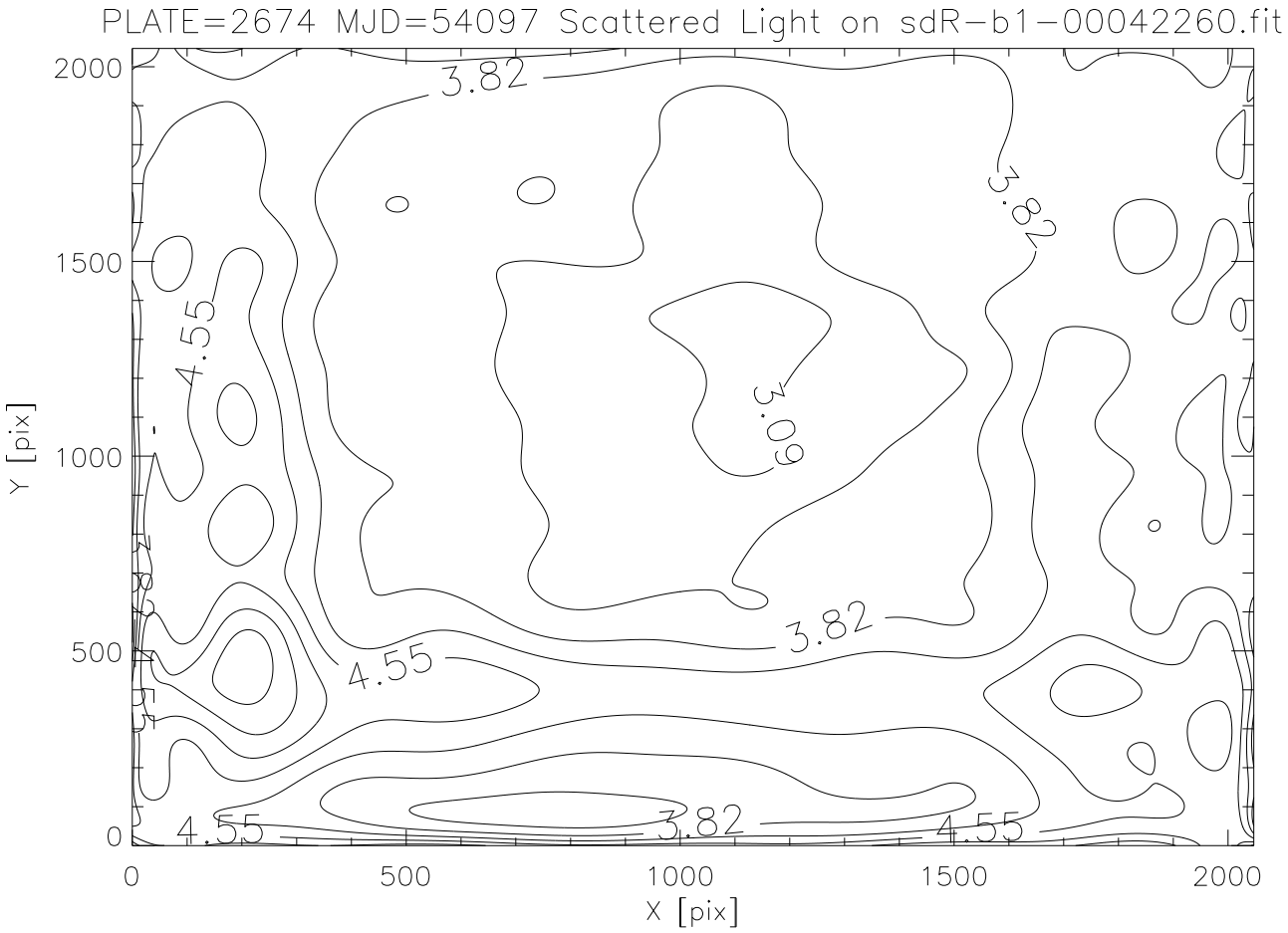

PLATE=2674 MJD=54097 sdR-b1-00042259.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
+Dispersion = 9.72 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

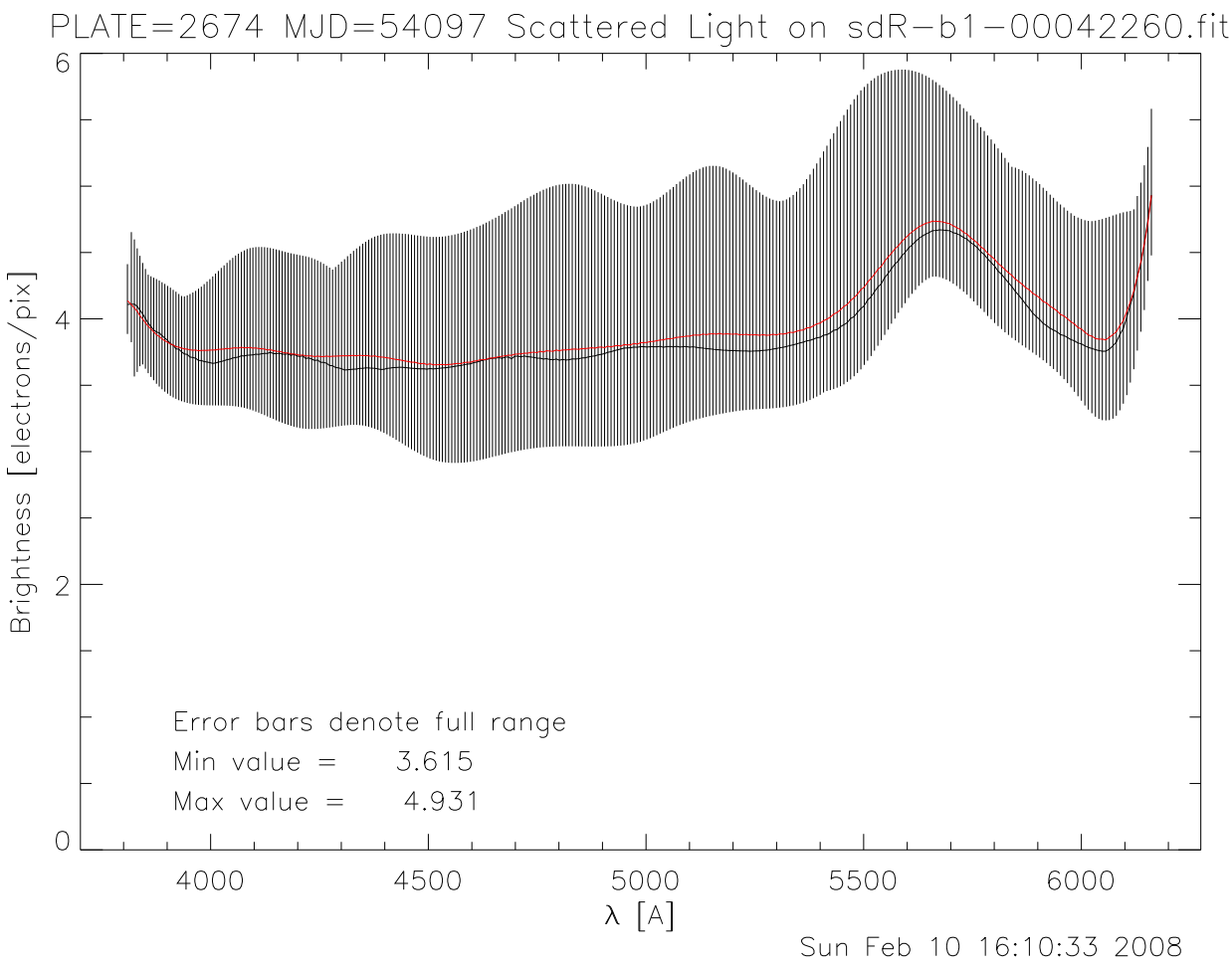

PLATE=2674 MJD=54097 sdR-b1-00042259.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.19 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

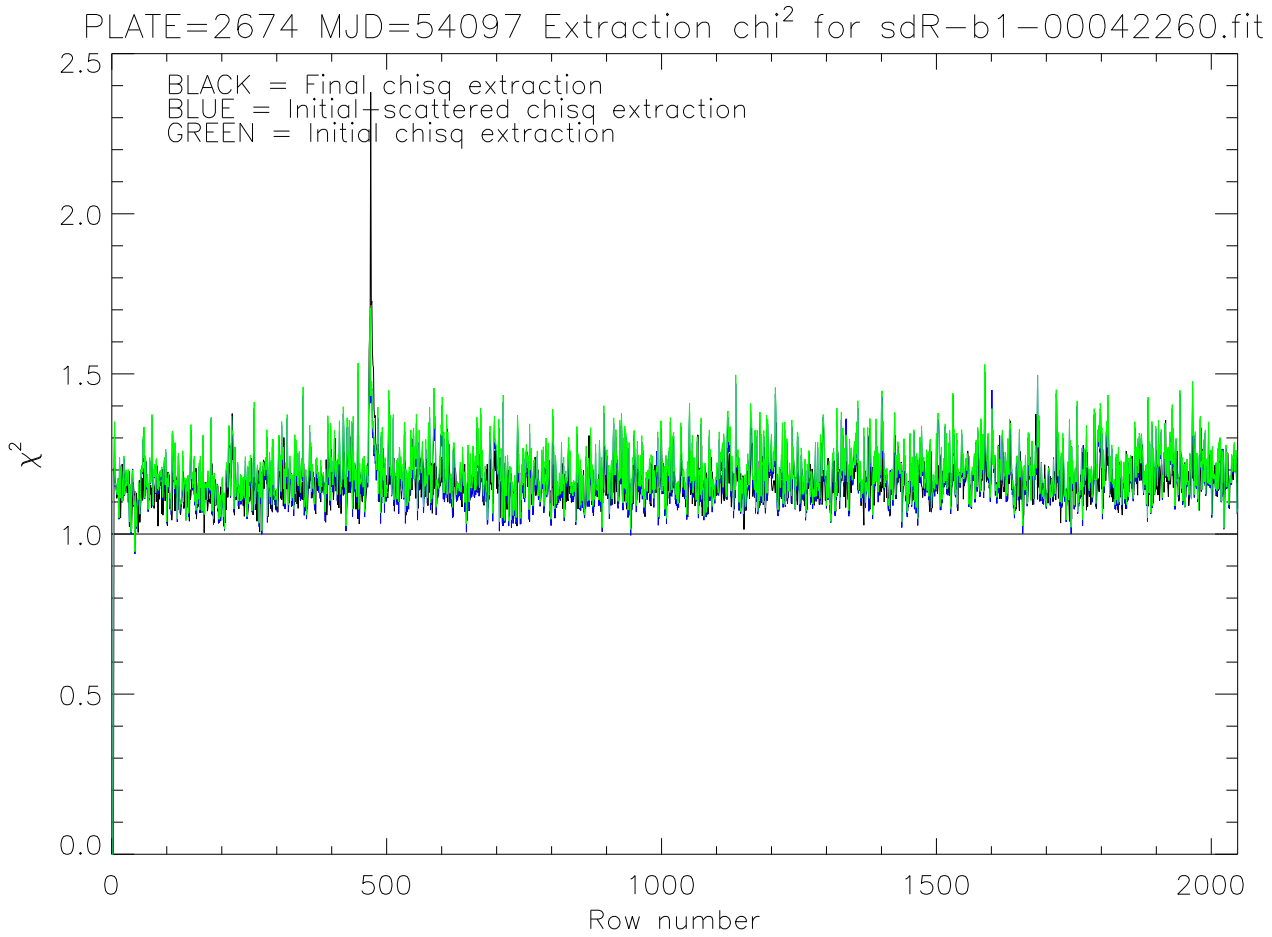

PLATE=2674 MJD=54097 Fiber-Flats for sdR-b1-00042256.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.376
Max value = 1.212
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sun Feb 10 16:06:10 2008

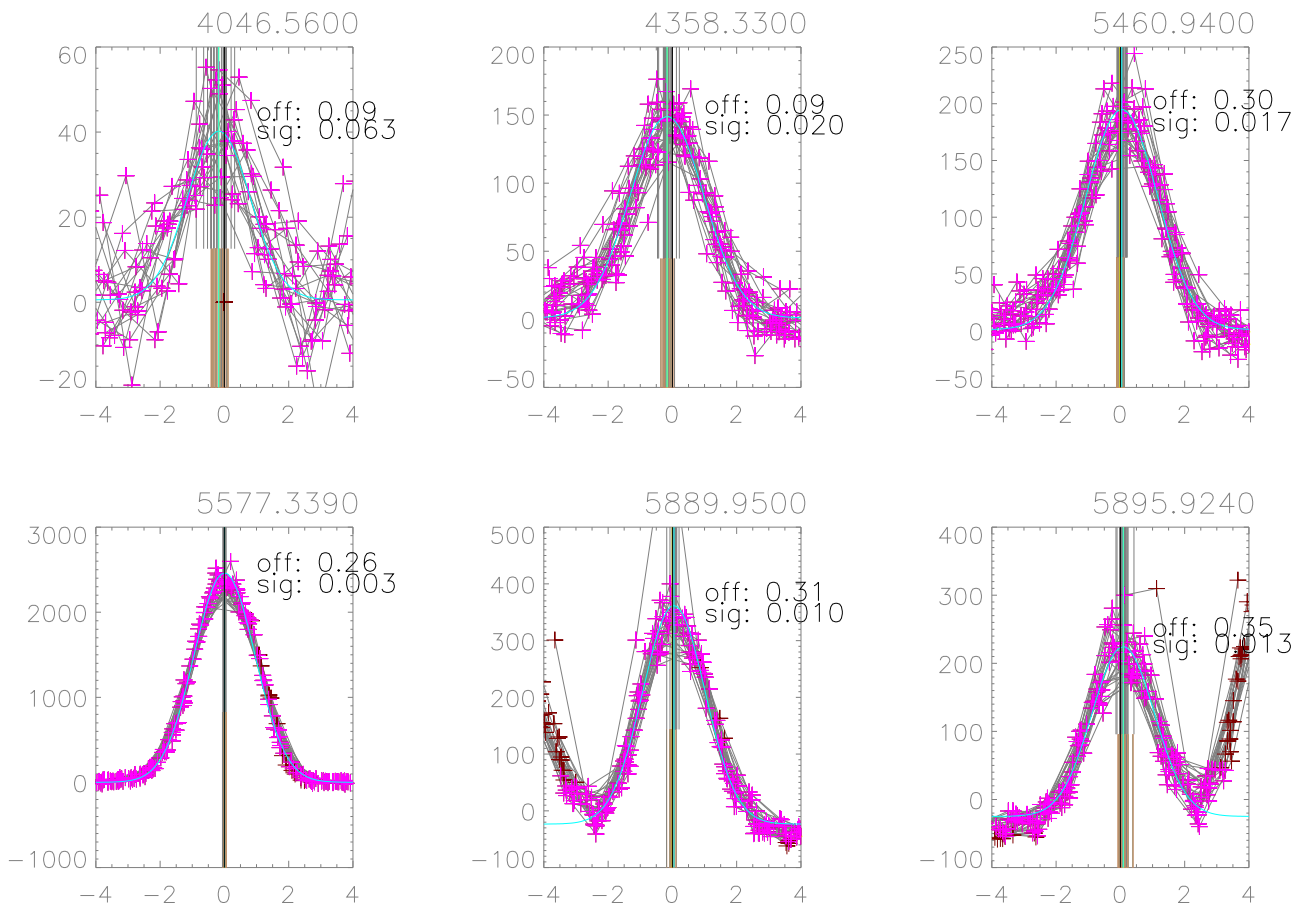

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR−b1−00042260.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
5.73
6.82

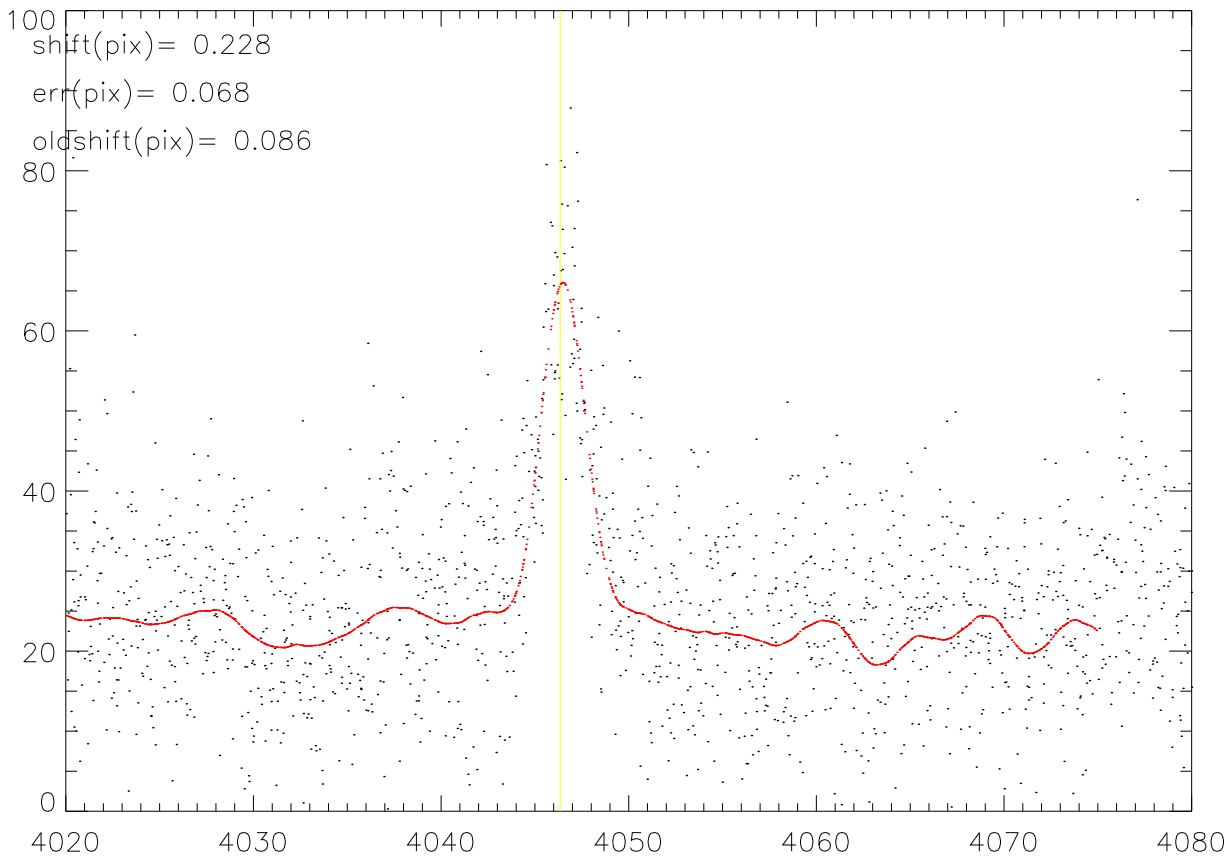

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR-b1-00042260.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.162
Max value = 7.221
Sun Feb 10 16:07:08 2008

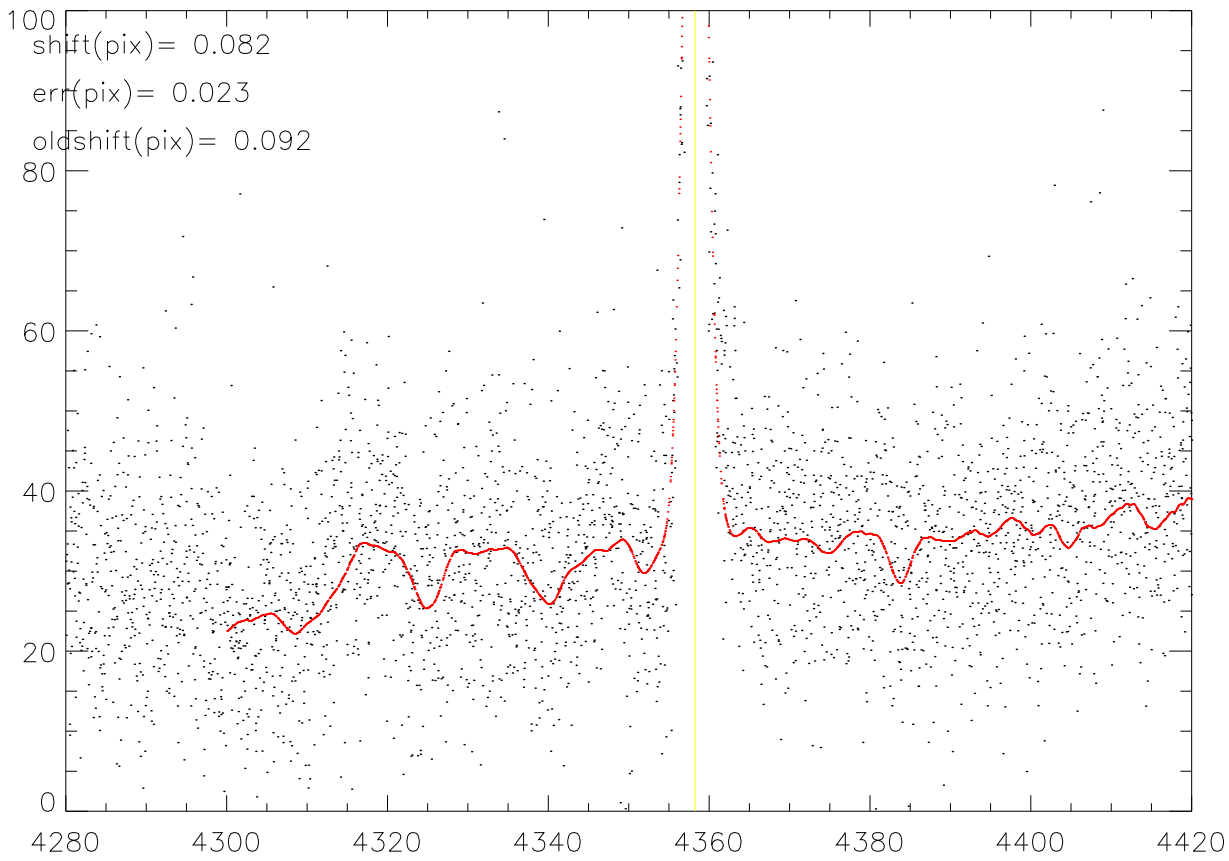

PLATE=2674 MJD=54097 Scattered Light on sdR-b1-00042260.fit
3.82
4.55
3.09
0
Y [pix]
X [pix]
0
500
1000
1500
2000

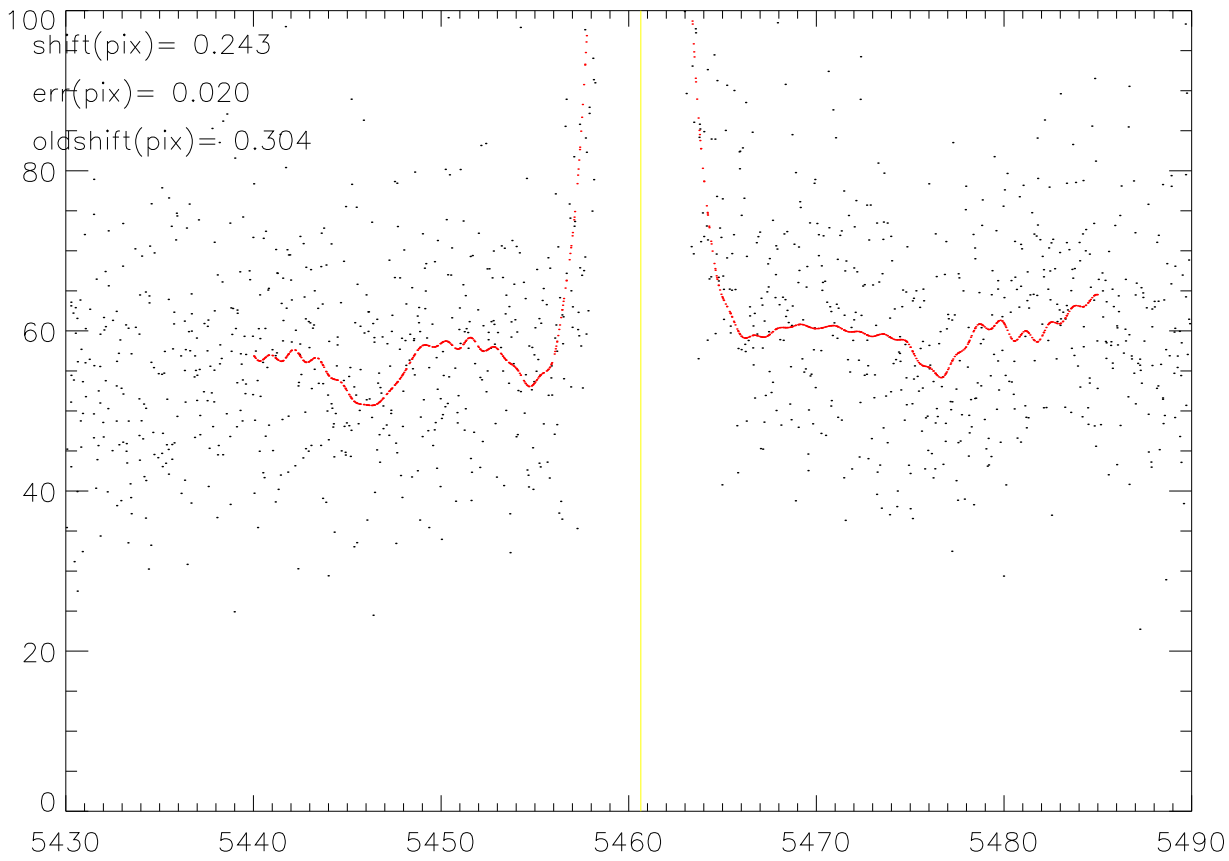

PLATE=2674 MJD=54097 Scattered Light on sdR-b1-00042260.fit
Brightness [electrons/pix]
0
2
4
6
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 3.615
Max value = 4.931
Sun Feb 10 16:10:33 2008

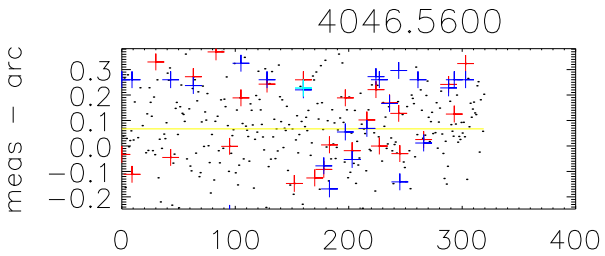

PLATE=2674 MJD=54097 Extraction chi^2 for sdR-b1-00042260.fit
BLACK = Final chisq extraction
BLUE = Initial+scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

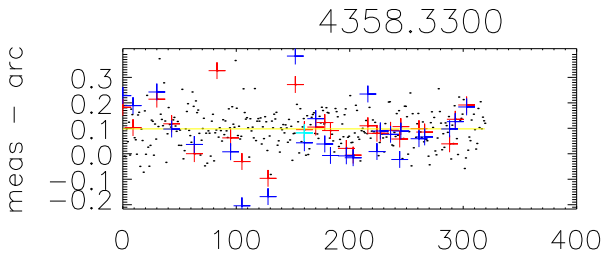

4046.5600
off: 0.09
sig: 0.063
4358.3300
off: 0.09
sig: 0.020
5460.9400
off: 0.30
sig: 0.017
5577.3390
off: 0.26
sig: 0.003
5889.9500
off: 0.31
sig: 0.010
5895.9240
off: 0.35
sig: 0.013

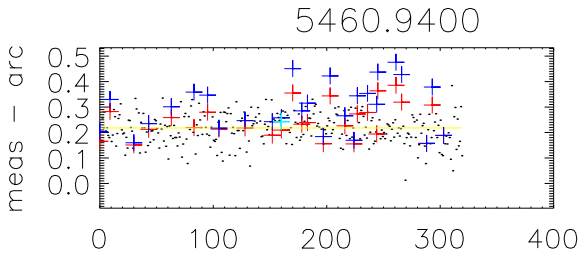

shift(pix)= 0.228
err(pix)= 0.068
oldshift(pix)= 0.086
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

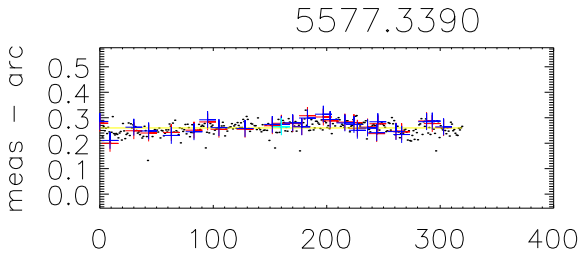

shift(pix)= 0.082
err(pix)= 0.023
oldshift(pix)= 0.092
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

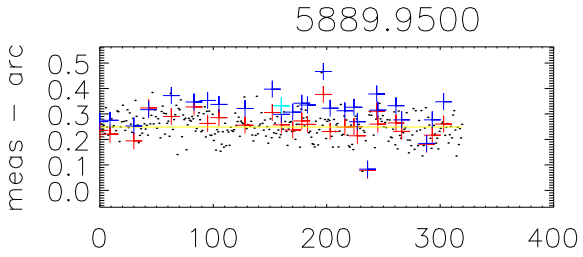

shift(pix)= 0.243
err(pix)= 0.020
oldshift(pix)= 0.304
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

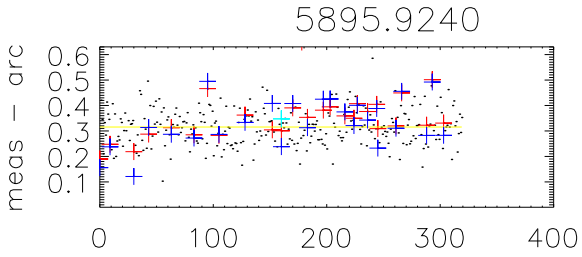

4046.5600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

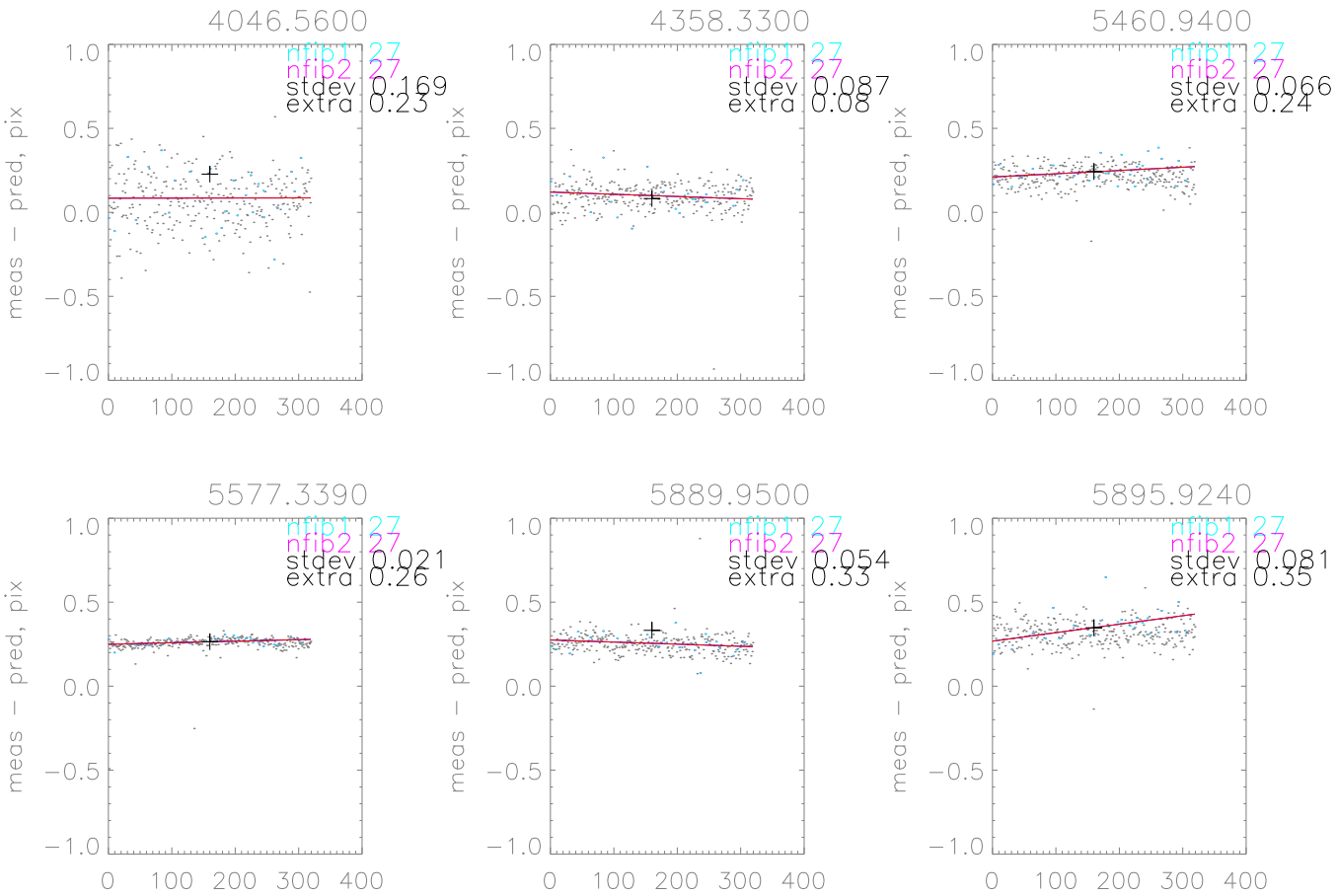

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

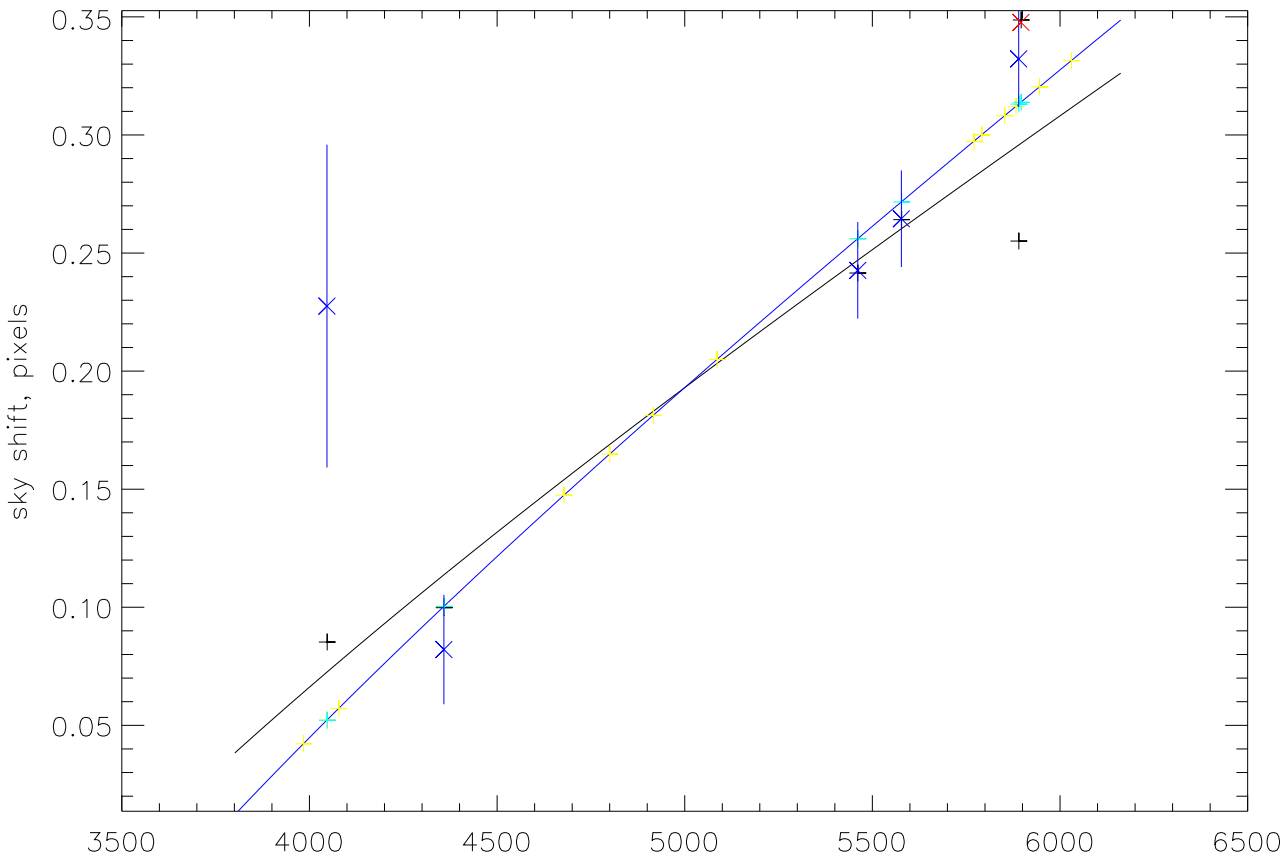

5460.9400
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400


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

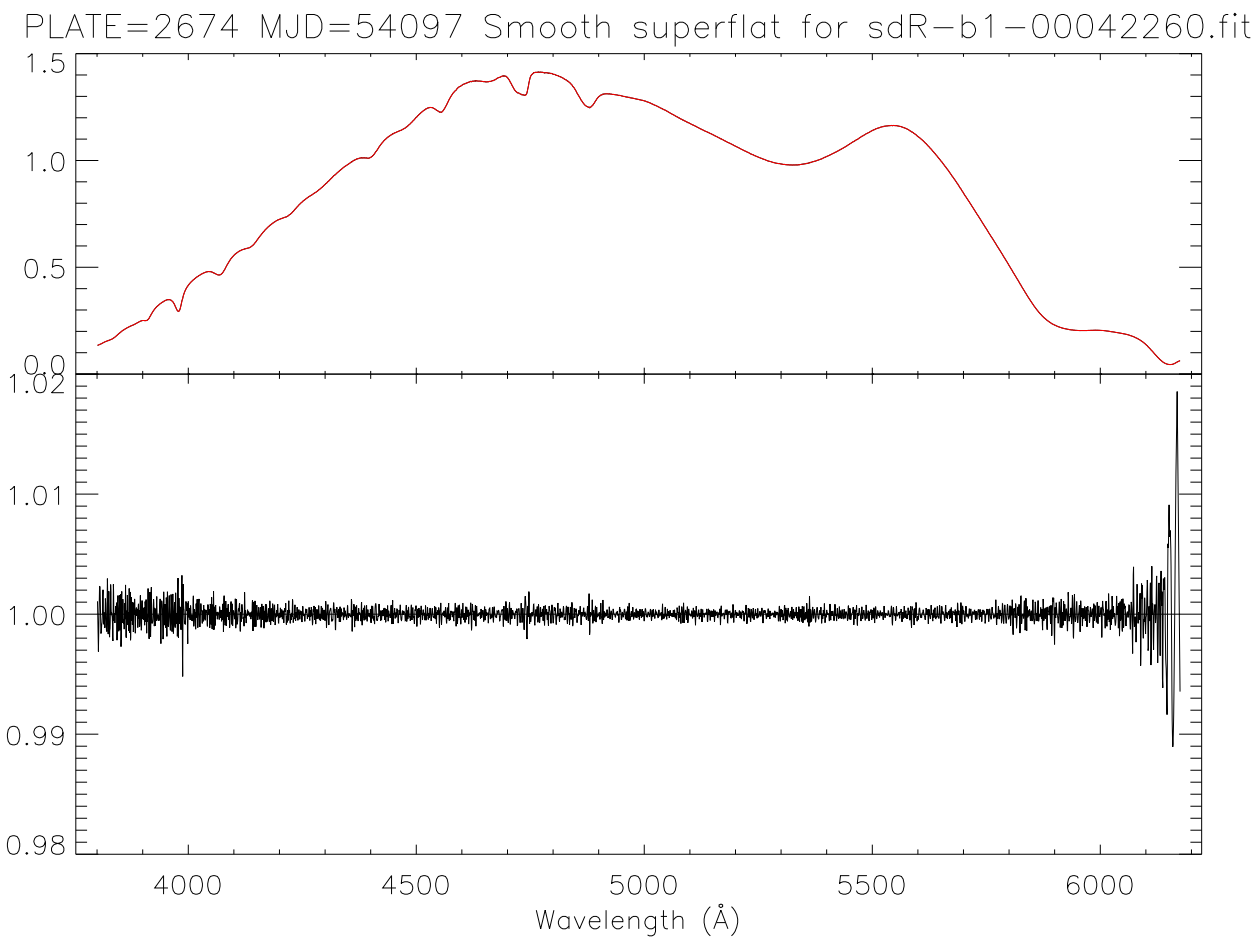

5889.9500
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

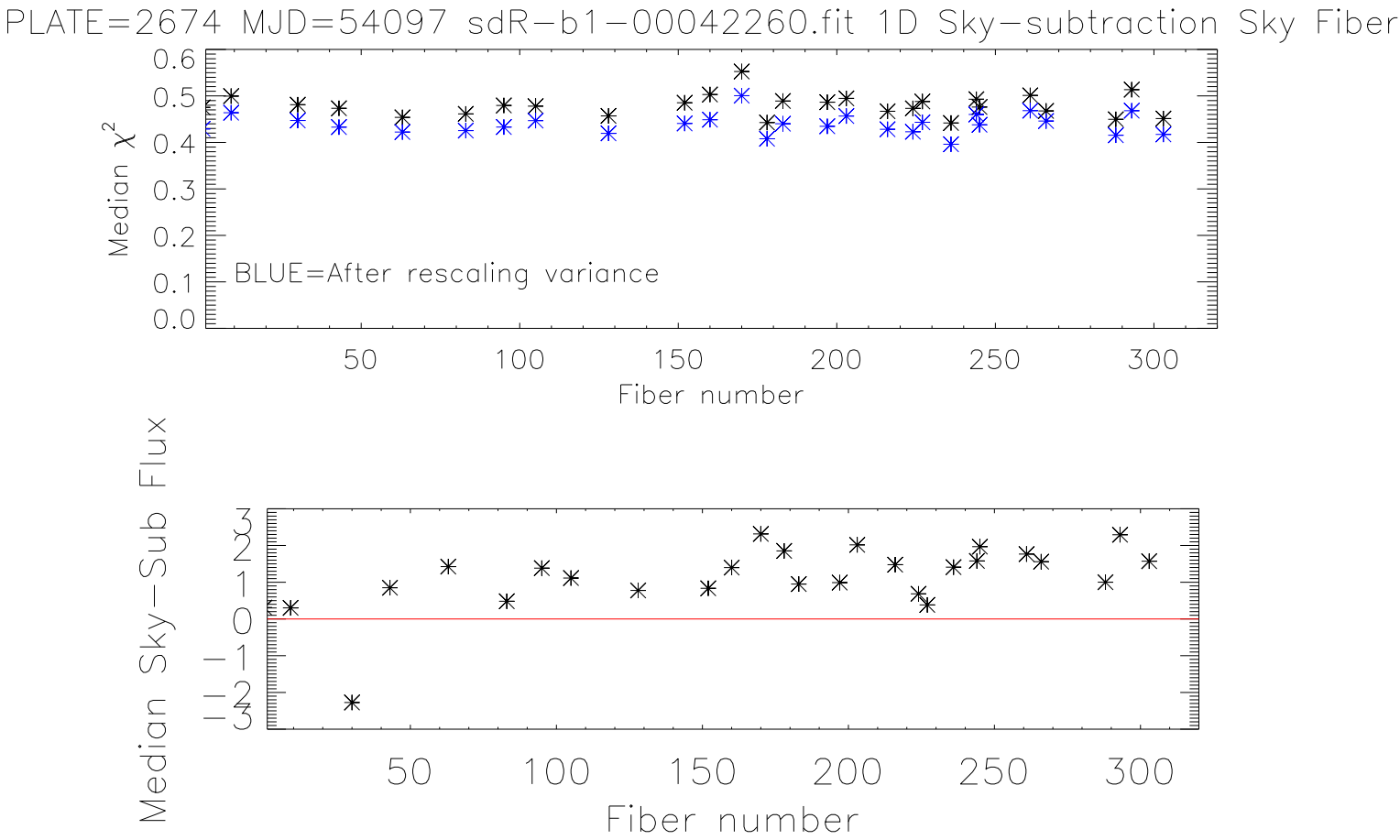

5895.9240
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

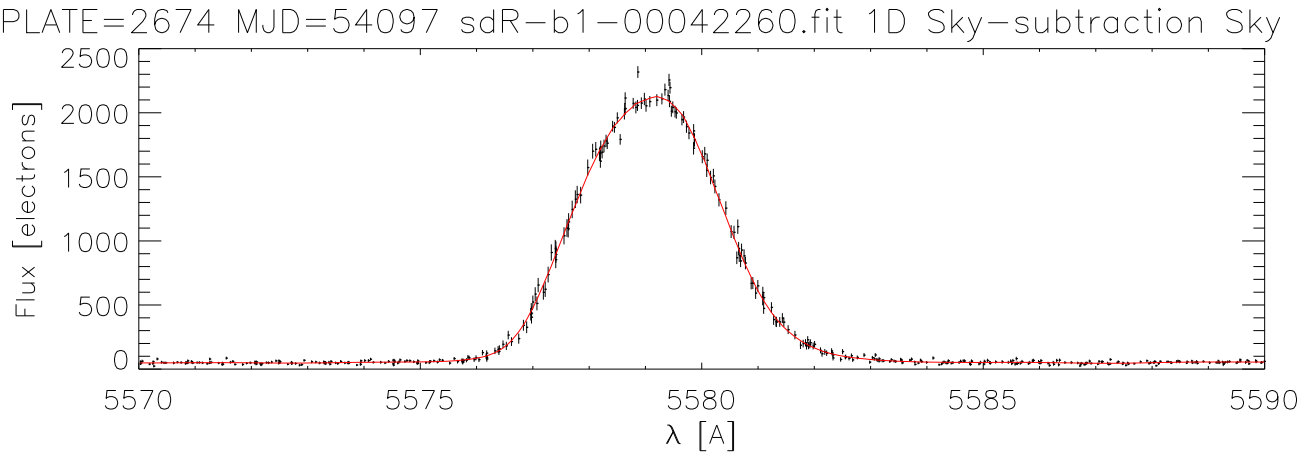

4046.5600
nfib1 27
nfib2 27
stdev 0.169
extra 0.23
4358.3300
nfib1 27
nfib2 27
stdev 0.087
extra 0.08
5460.9400
nfib1 27
nfib2 27
stdev 0.066
extra 0.24
5577.3390
nfib1 27
nfib2 27
stdev 0.021
extra 0.26
5889.9500
nfib1 27
nfib2 27
stdev 0.054
extra 0.33
5895.9240
nfib1 27
nfib2 27
stdev 0.081
extra 0.35
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

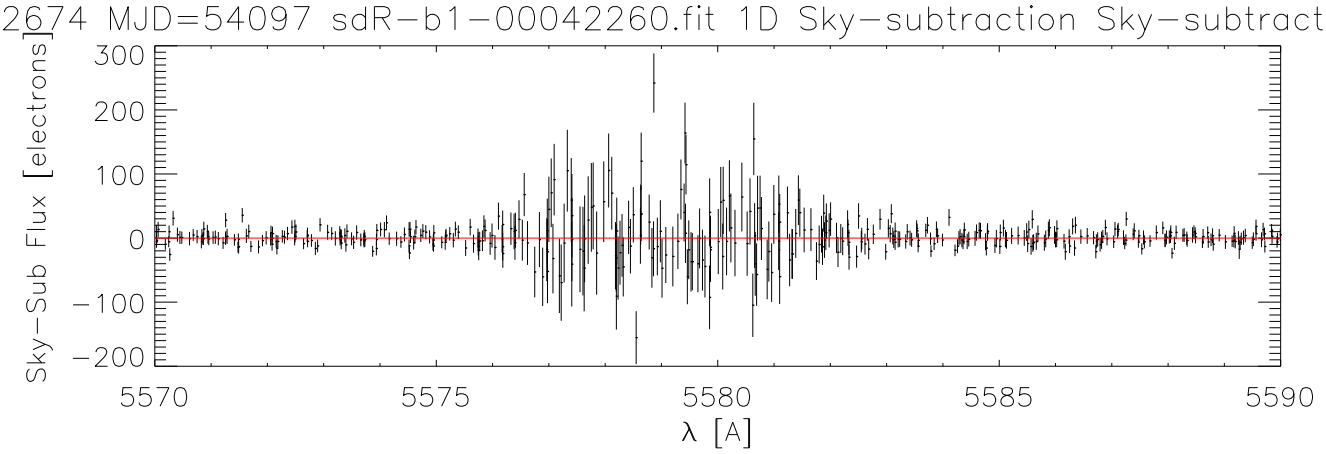

sky shift, pixels
0.35
0.30
0.25
0.20
0.15
0.10
0.05
3500
4000
4500
5000
5500
6000
6500

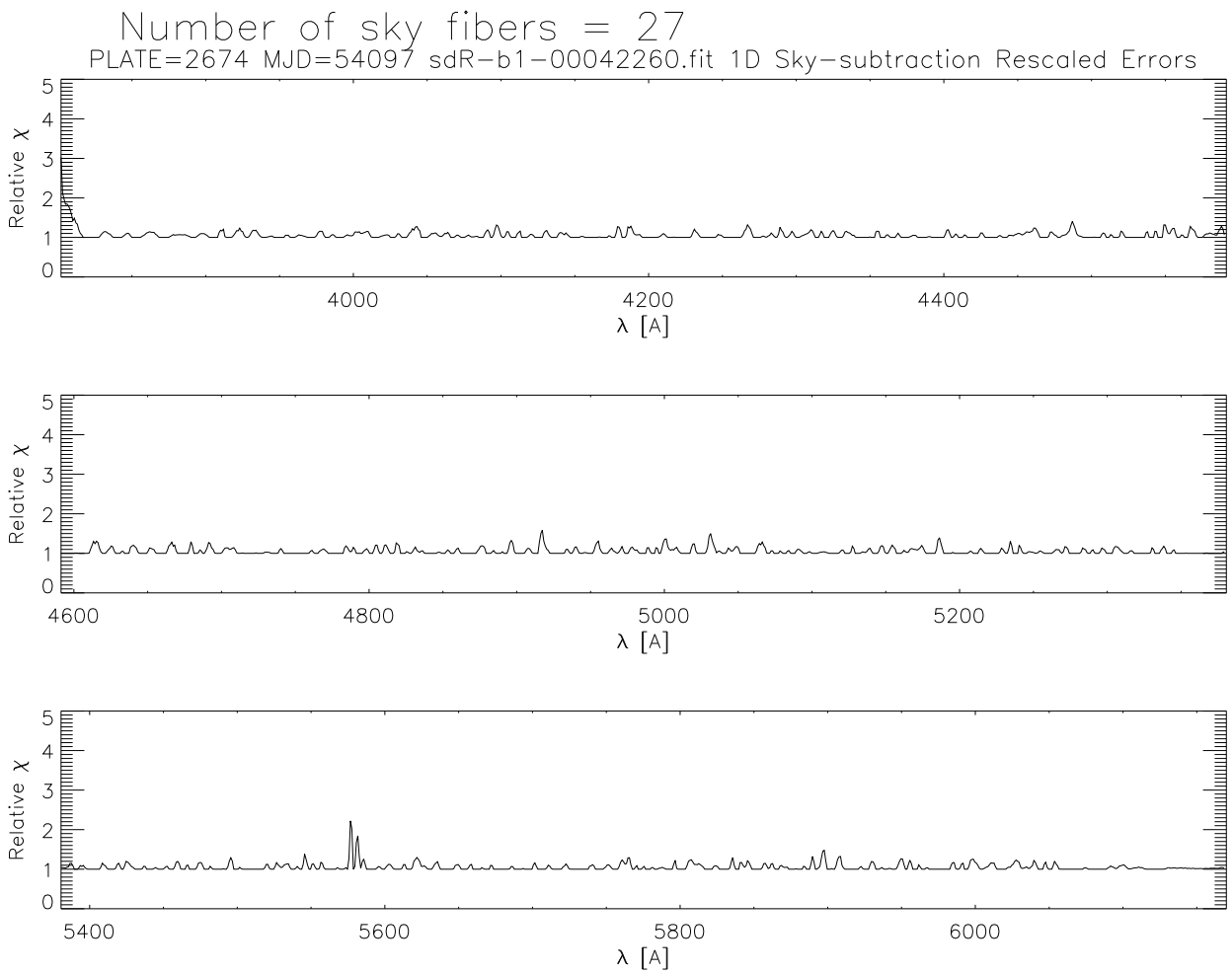
es= −0.0001

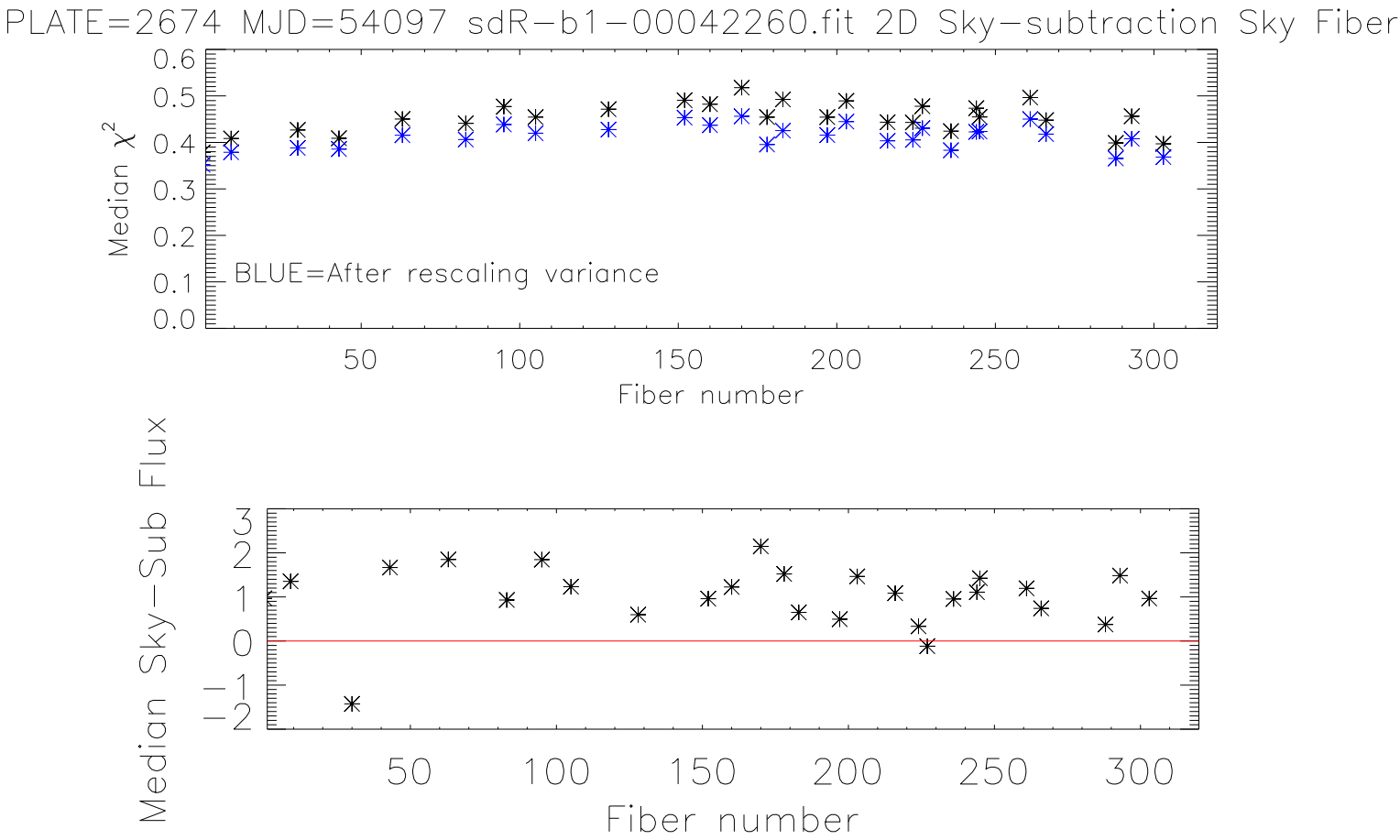

PLATE=2674 MJD=54097 Smooth superflat for sdR−b1−00042260.fit
1.5
1.0
0.5
0.0
1.02
1.01
1.00
0.99
0.98
4000
4500
5000
5500
6000
Wavelength (Å)

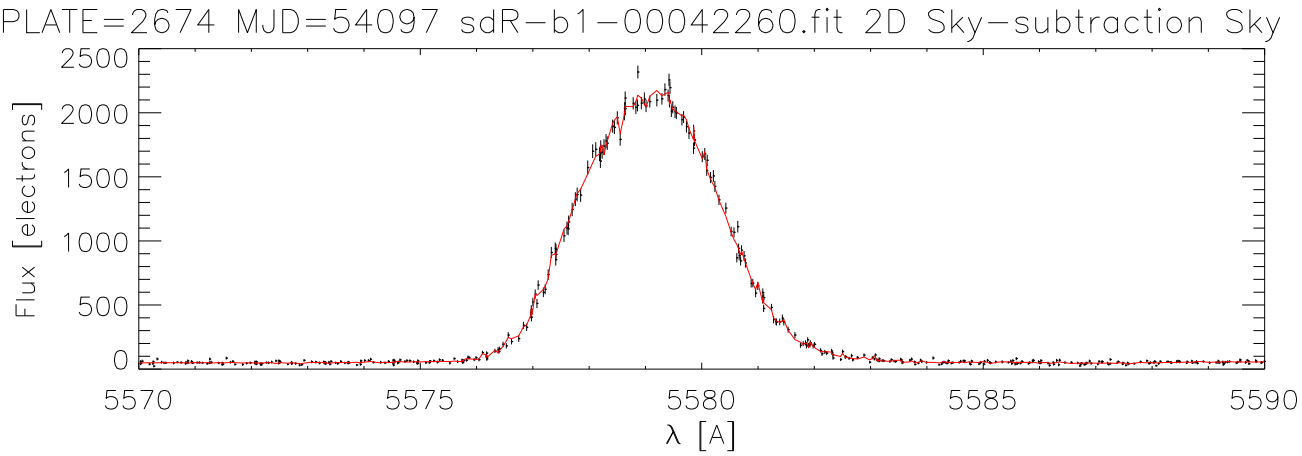

PLATE=2674 MJD=54097 sdR-b1-00042260.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

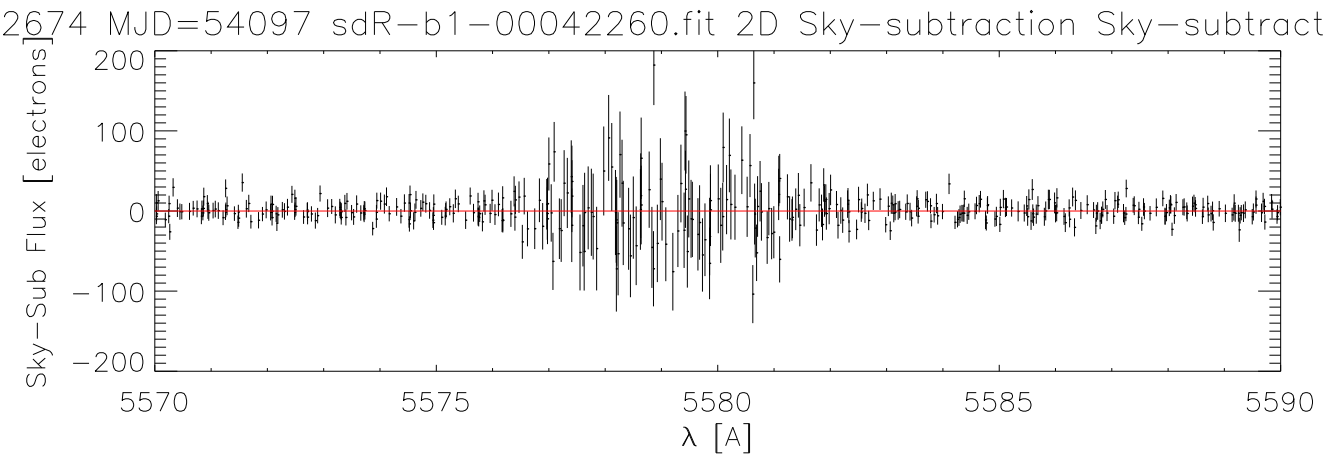

PLATE=2674 MJD=54097 sdR-b1-00042260.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

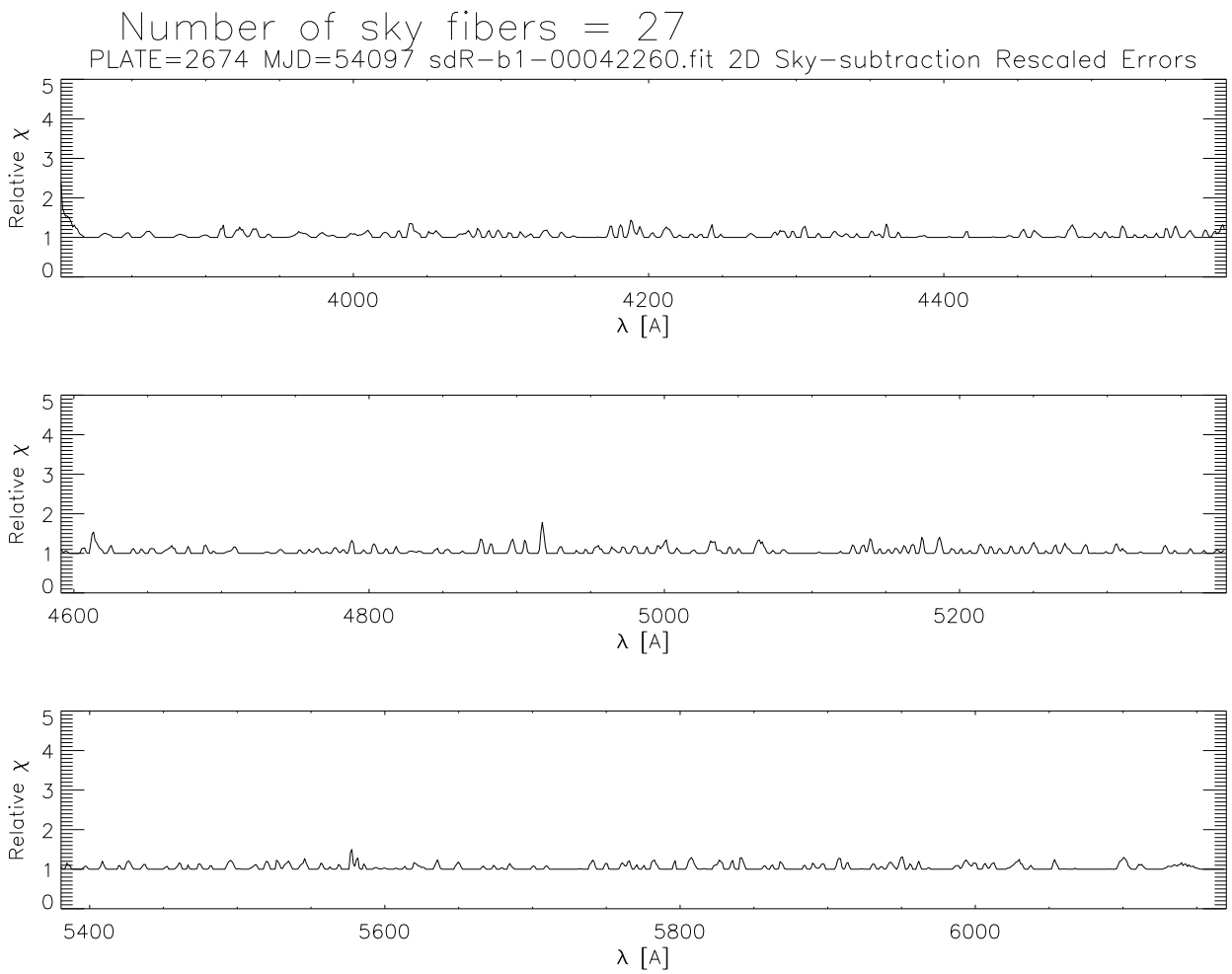

PLATE=2674 MJD=54097 sdR-b1-00042260.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

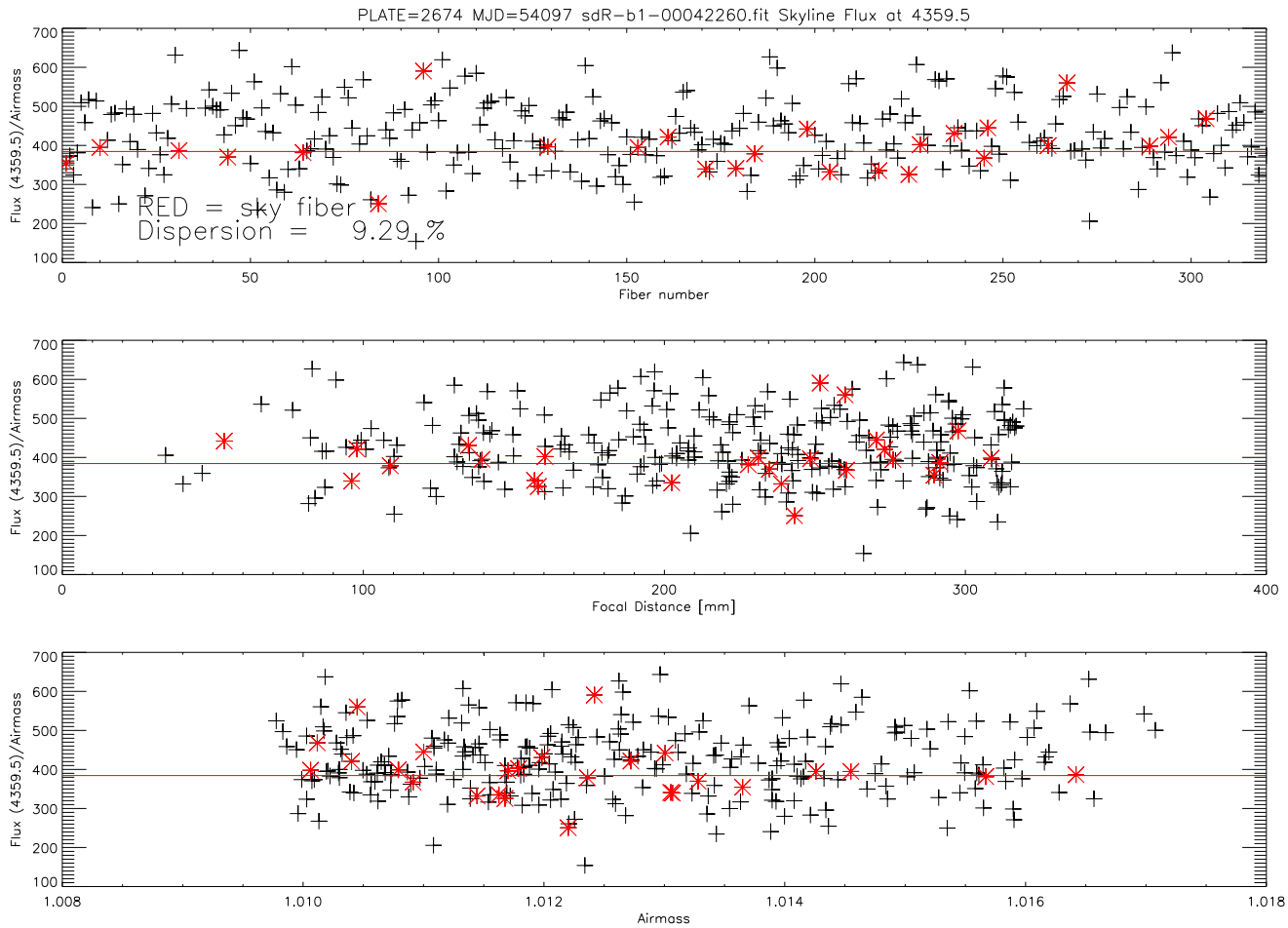

Number of sky fibers = 27
PLATE=2674 MJD=54097 sdR-b1-00042260.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

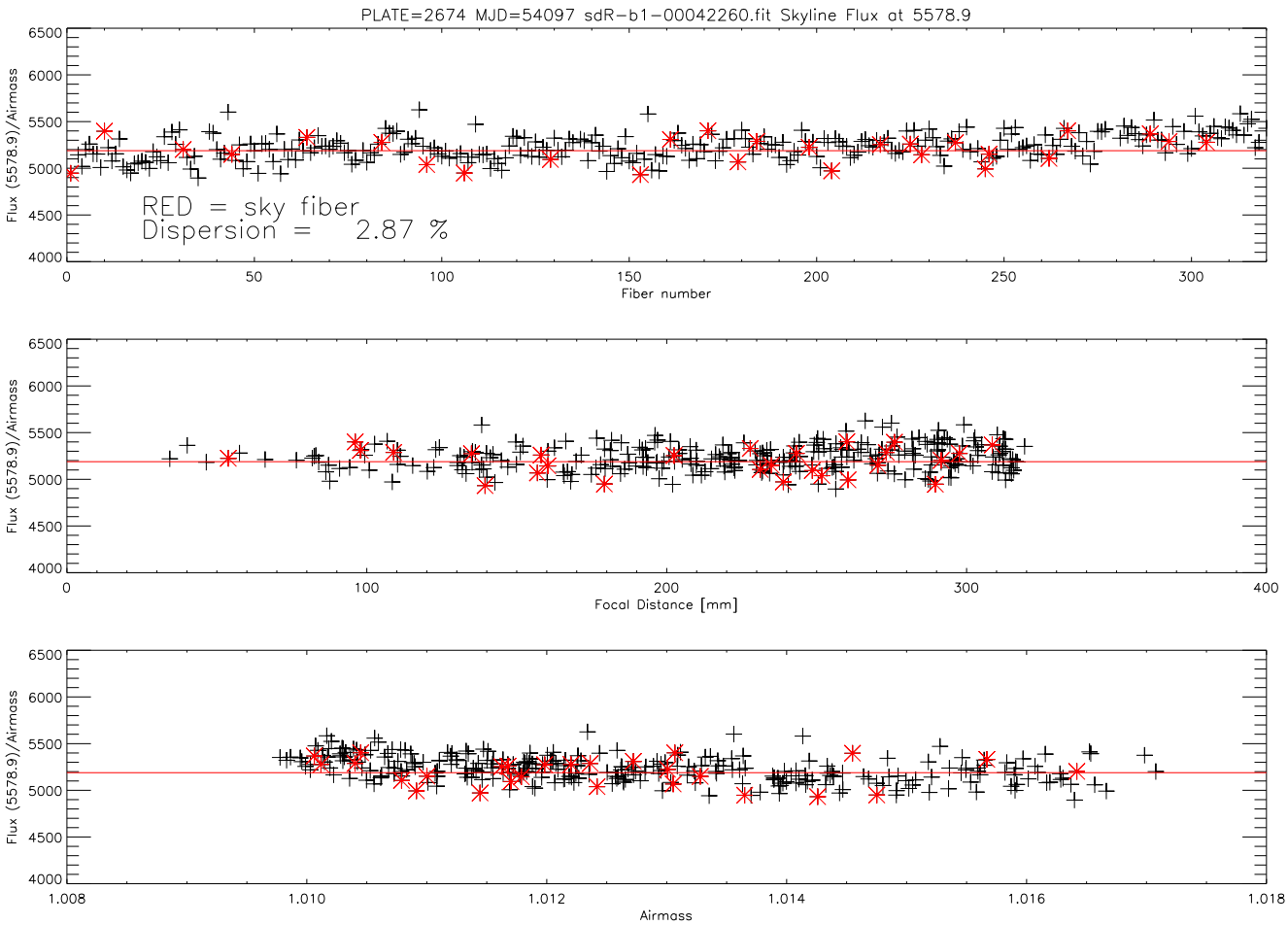

PLATE=2674 MJD=54097 sdR-b1-00042260.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
50
100
150
200
250
300
Fiber number

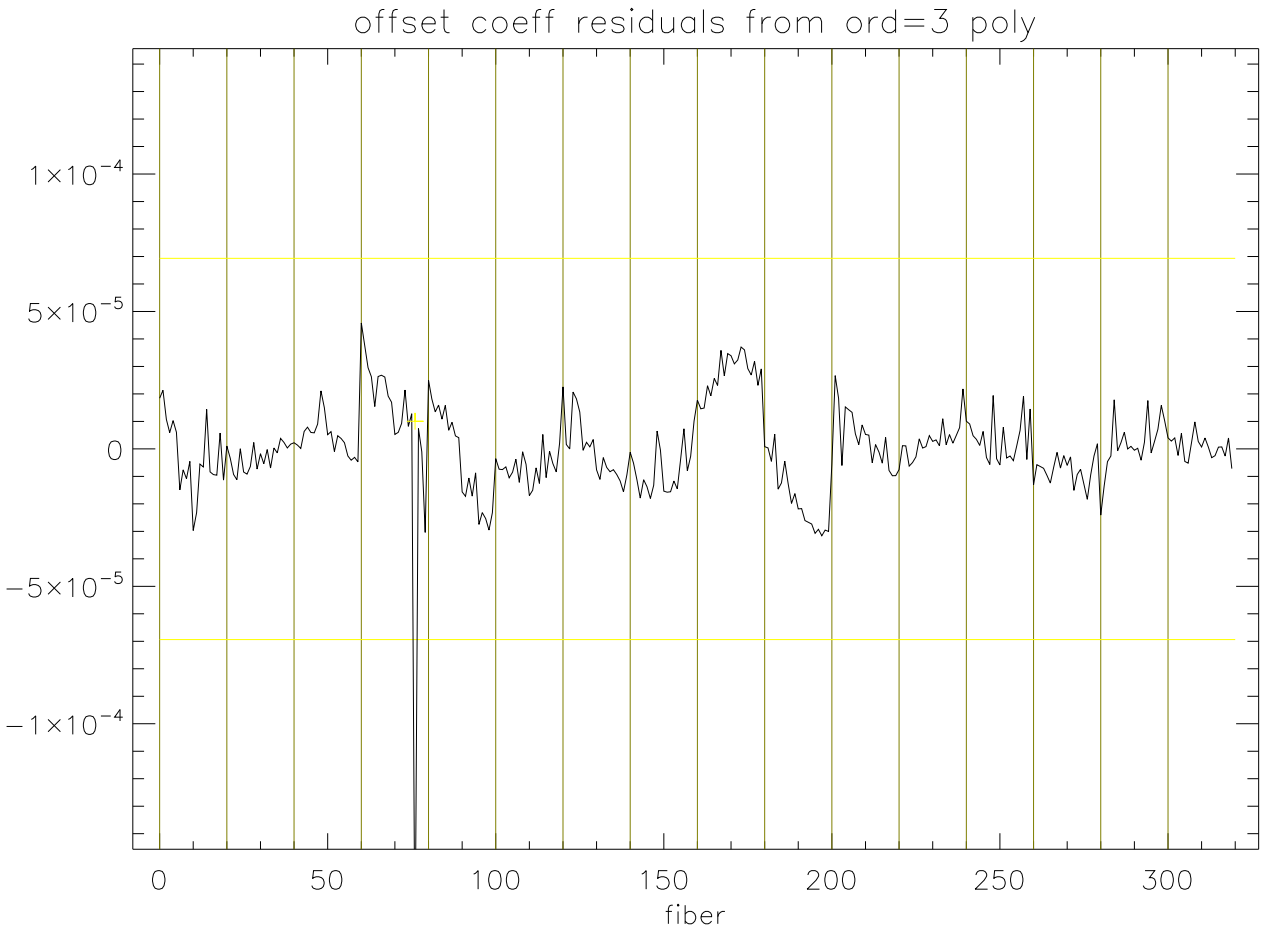

PLATE=2674 MJD=54097 sdR-b1-00042260.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

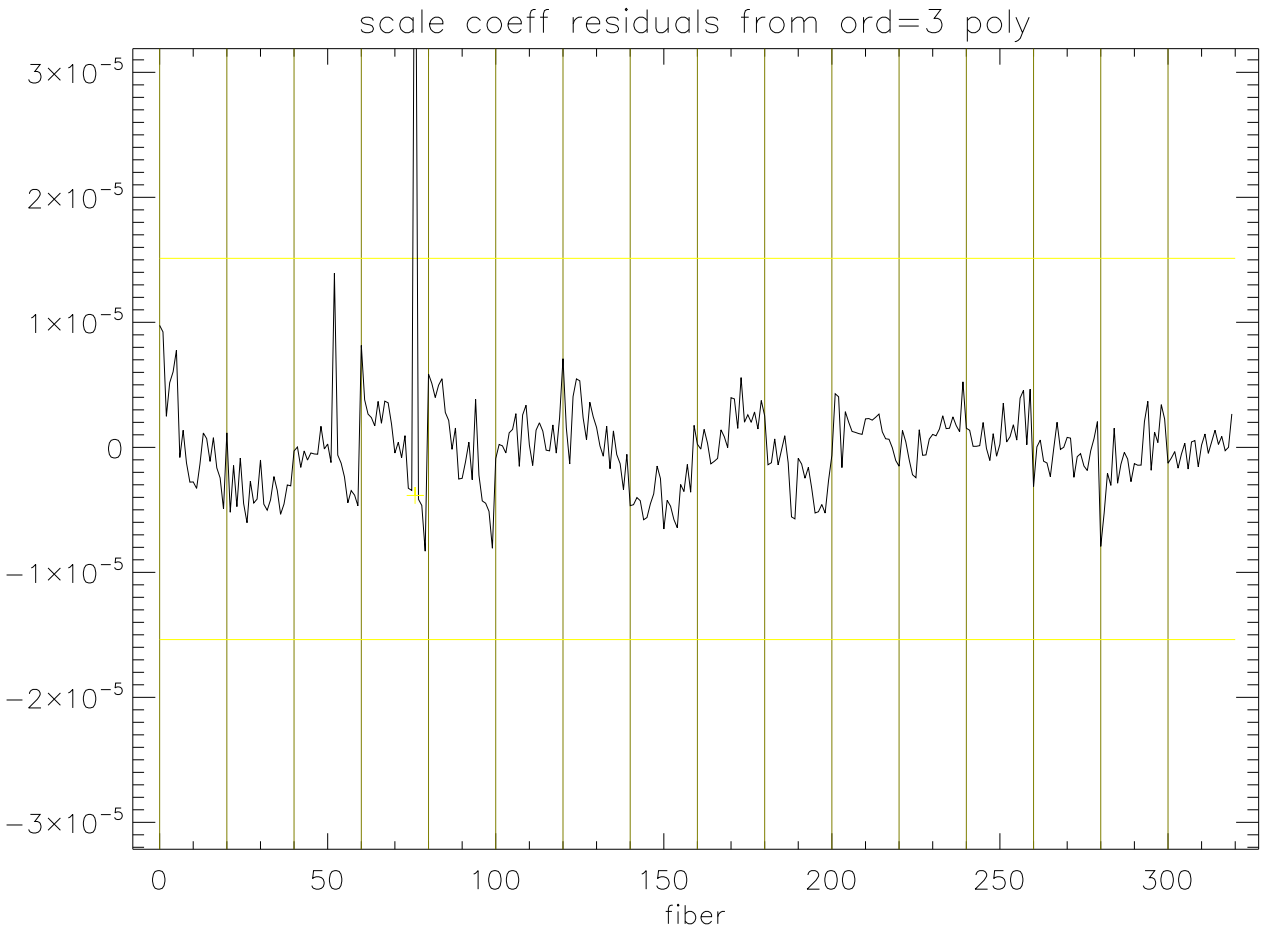

PLATE=2674 MJD=54097 sdR-b1-00042260.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

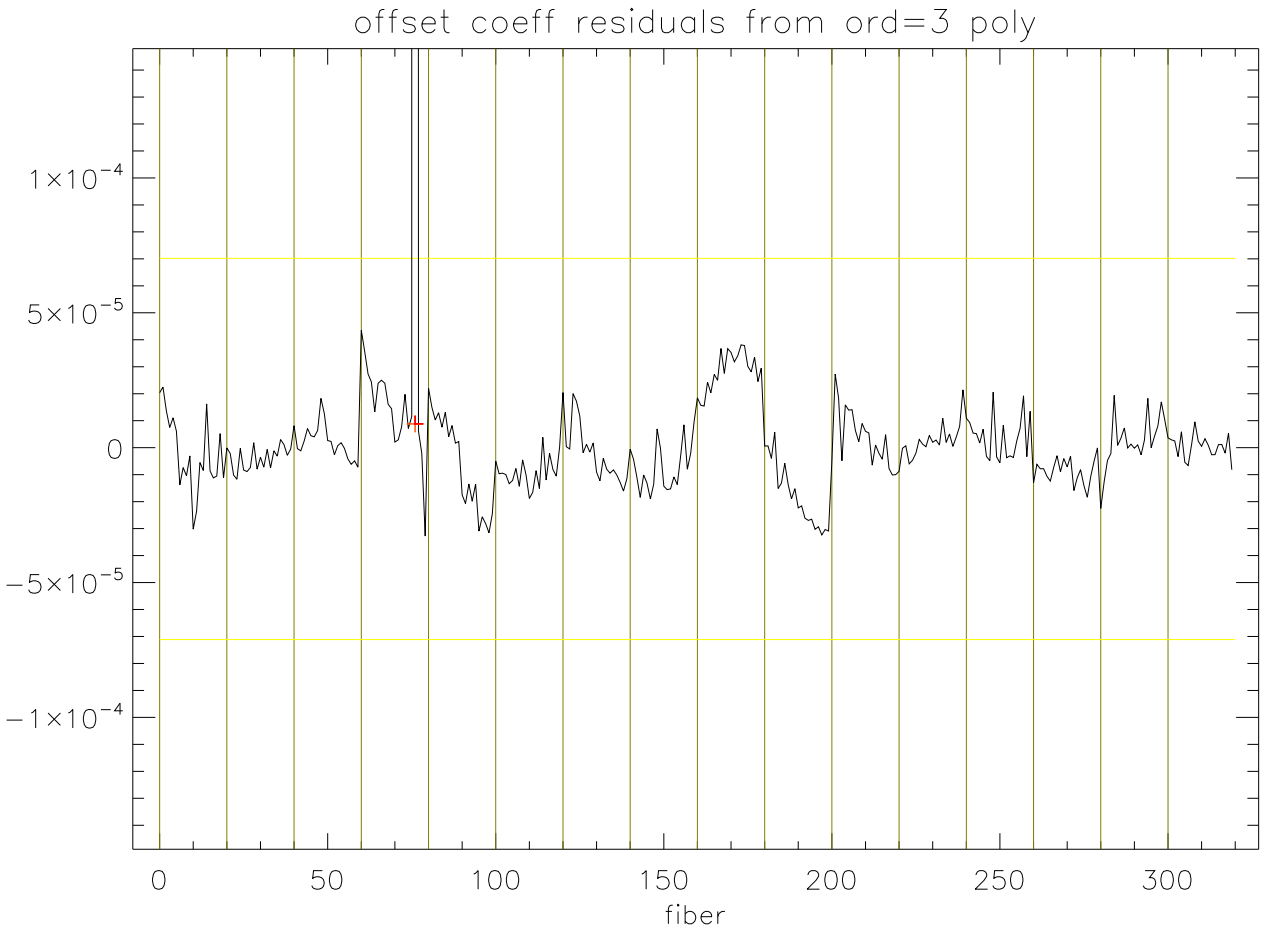

Number of sky fibers = 27
PLATE=2674 MJD=54097 sdR-b1-00042260.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

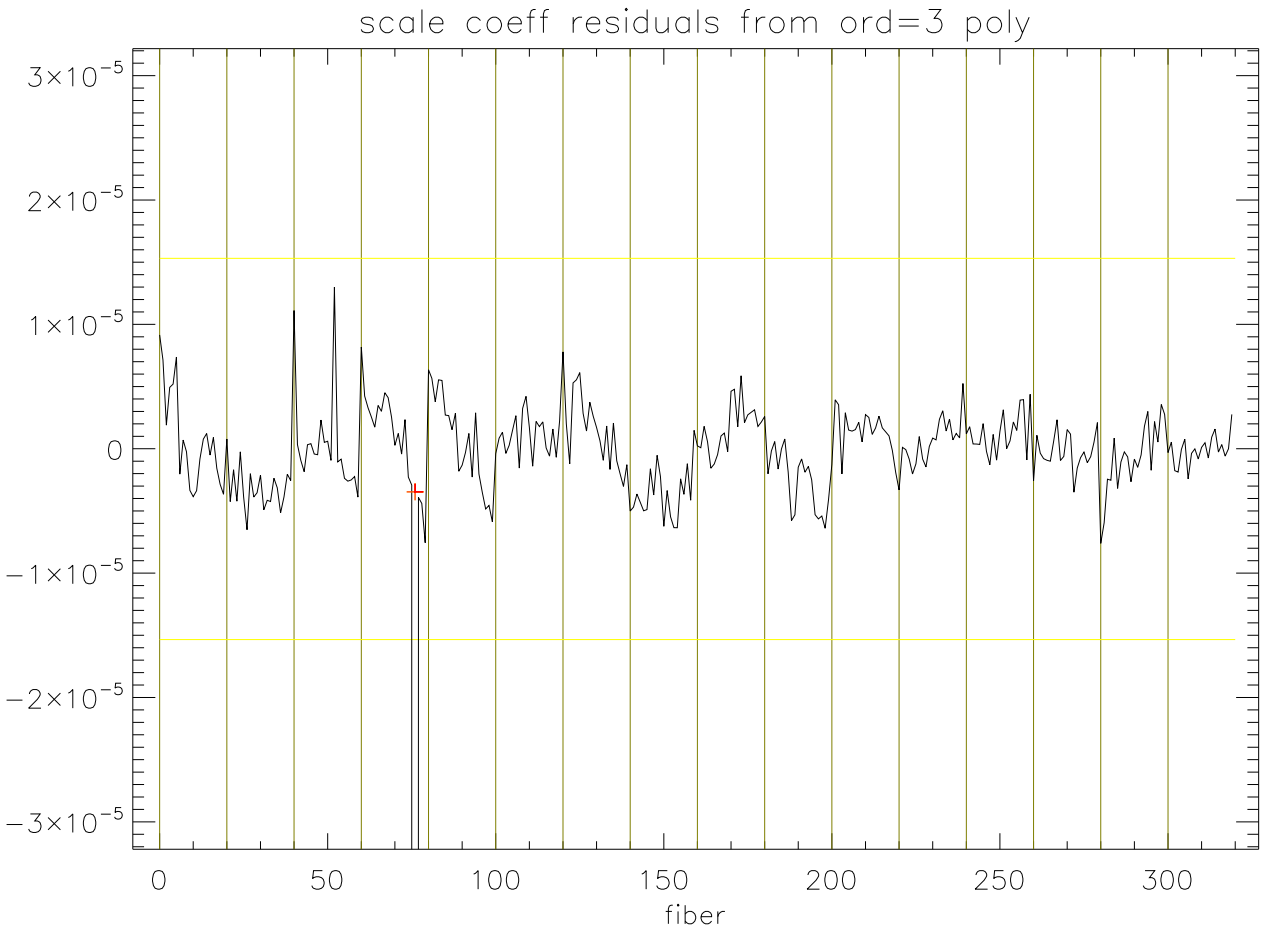

PLATE=2674 MJD=54097 sdR-b1-00042260.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 9.29 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

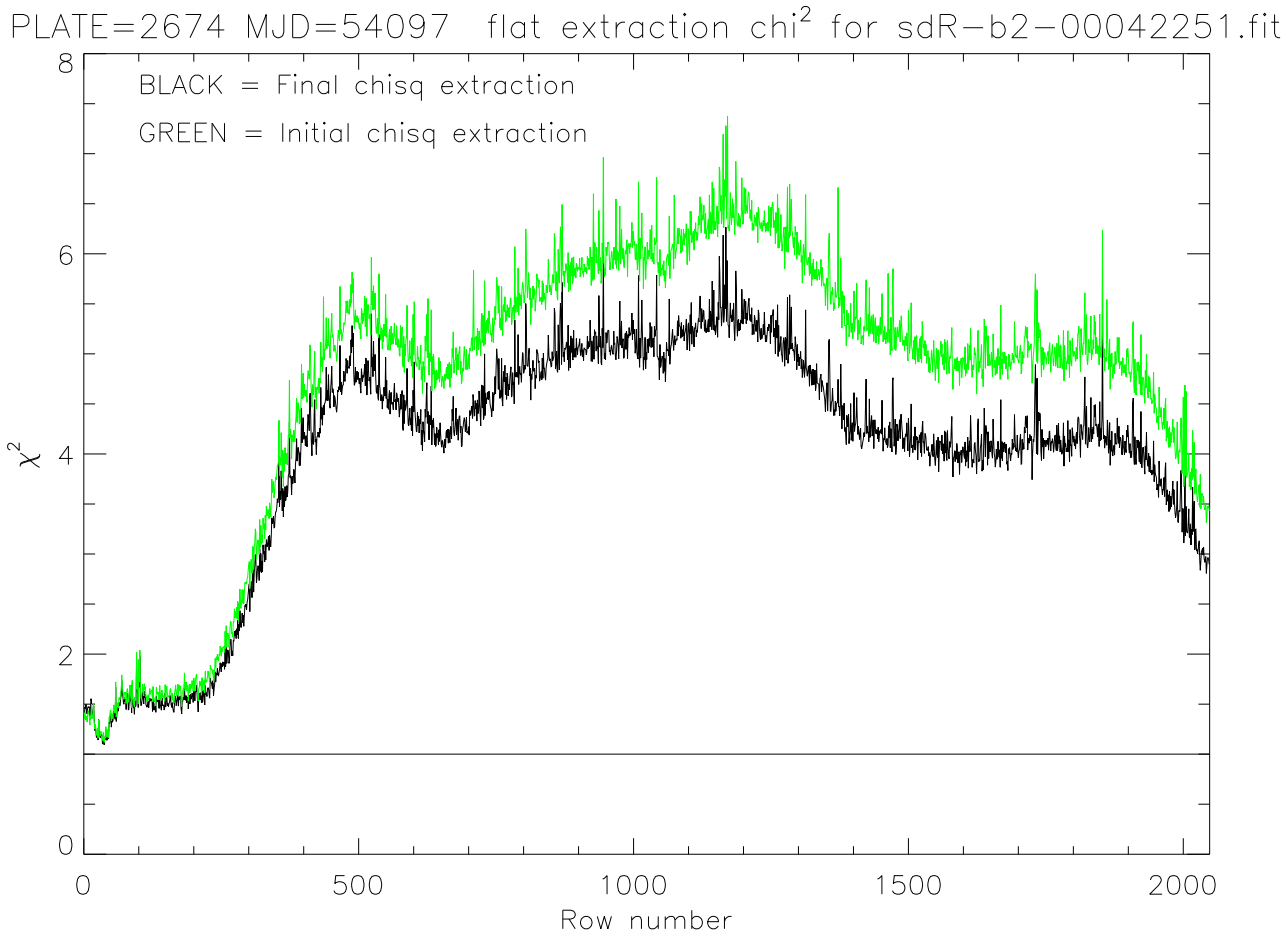

PLATE=2674 MJD=54097 sdR-b1-00042260.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.87 %
Fiber number
Focal Distance [mm]
Airmass

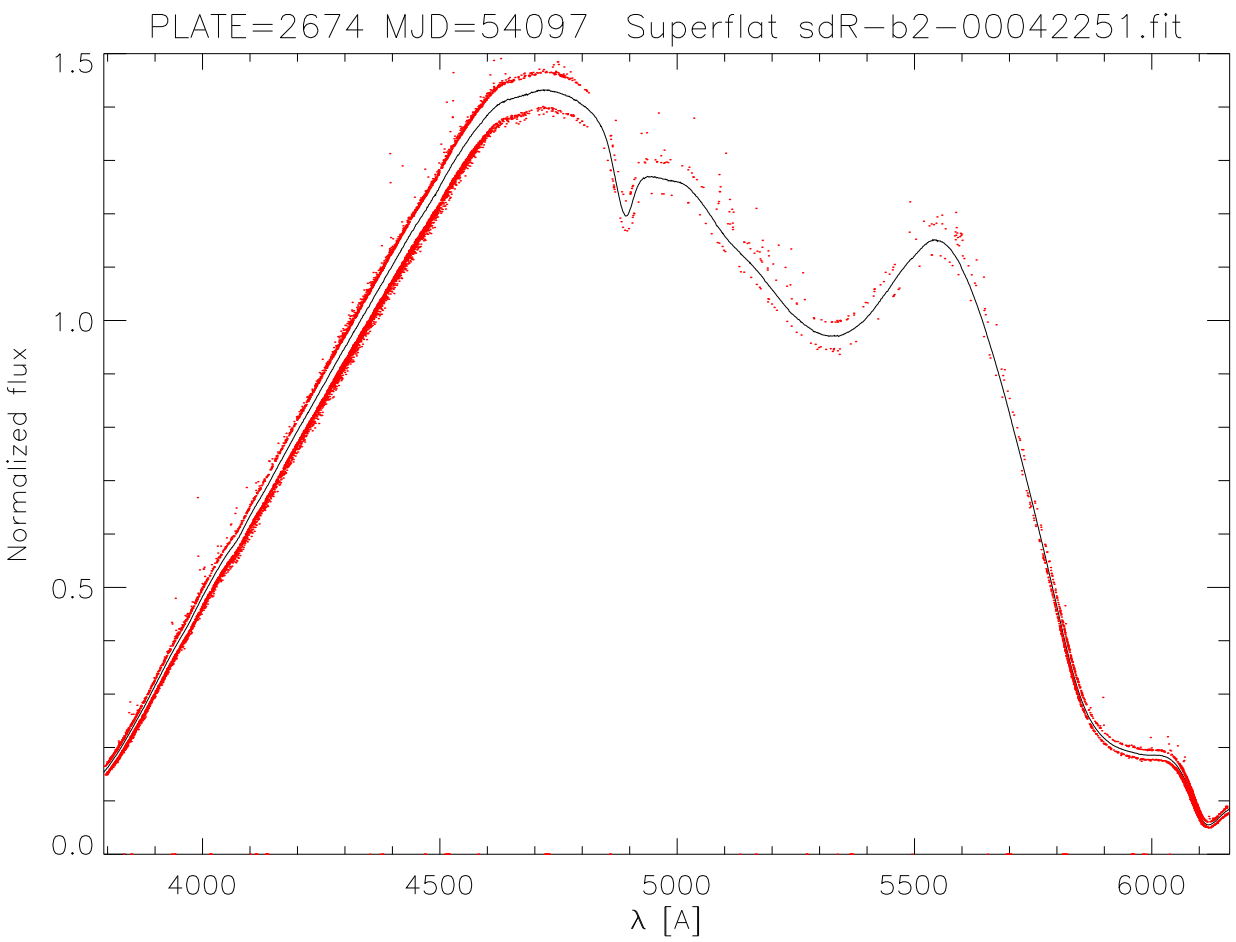

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

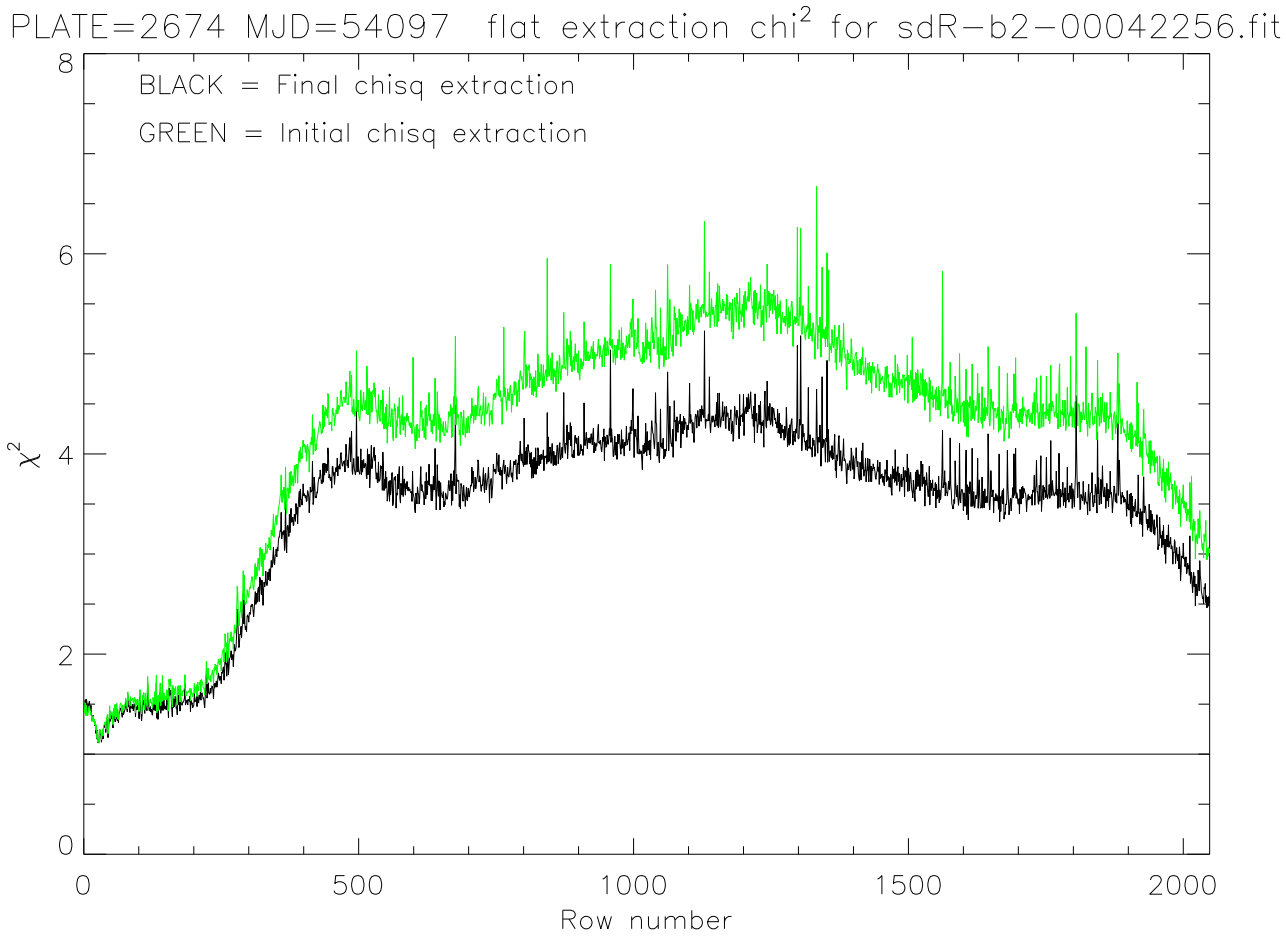

scale coeff residuals from ord=3 poly
3×10^-5
2×10^-5
1×10^-5
0
−1×10^-5
−2×10^-5
−3×10^-5
0
50
100
150
200
250
300
fiber

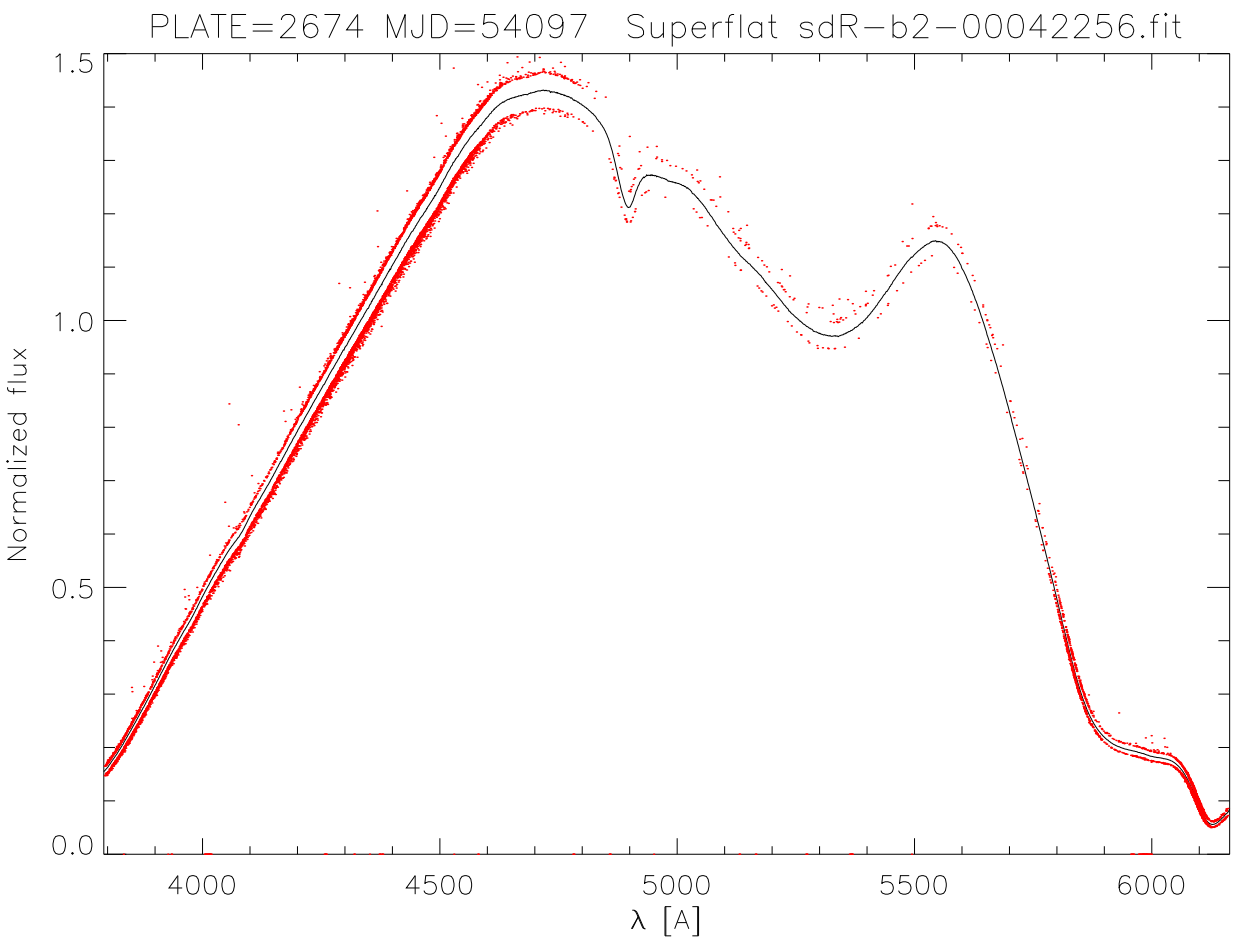

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

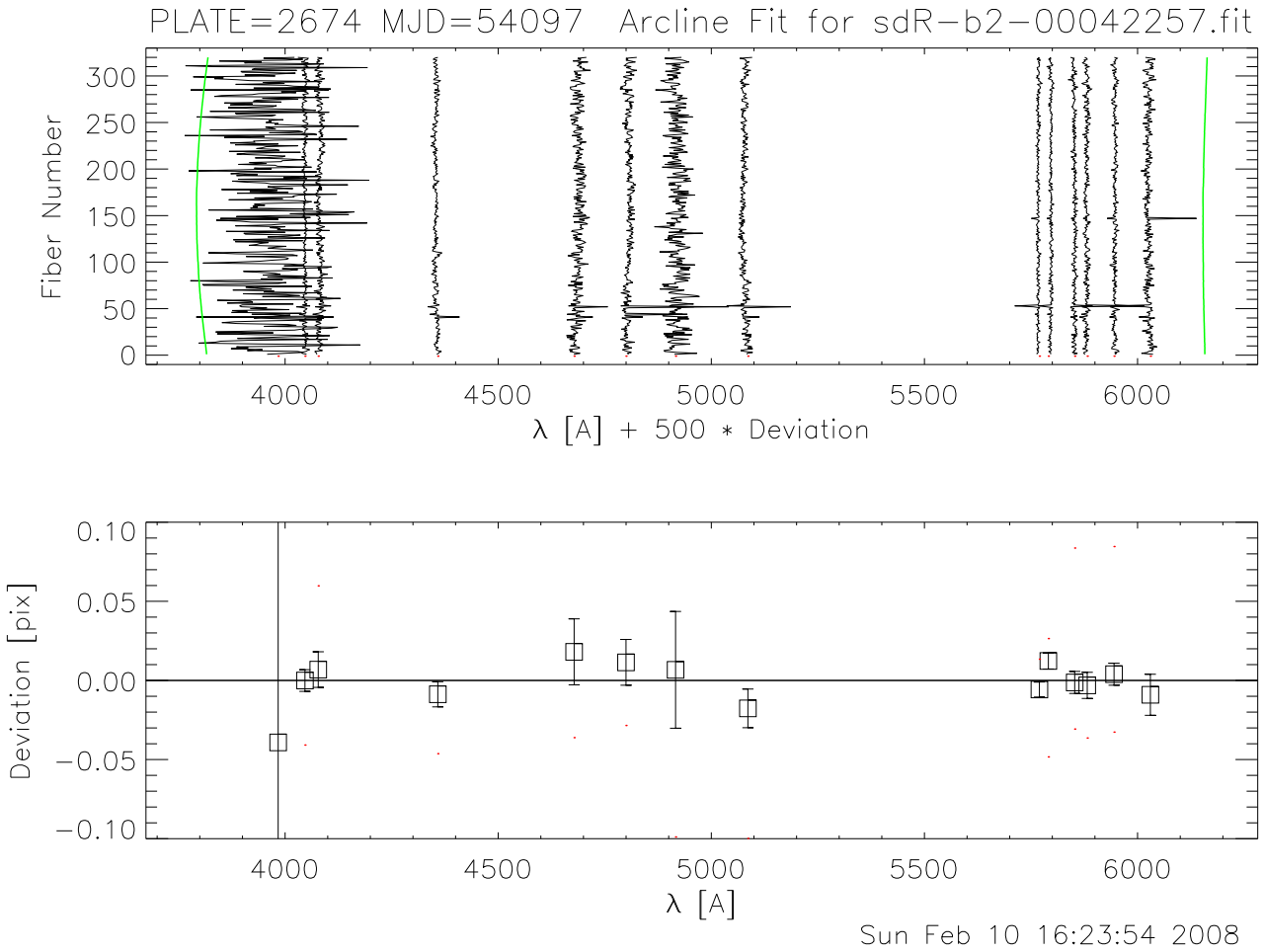

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

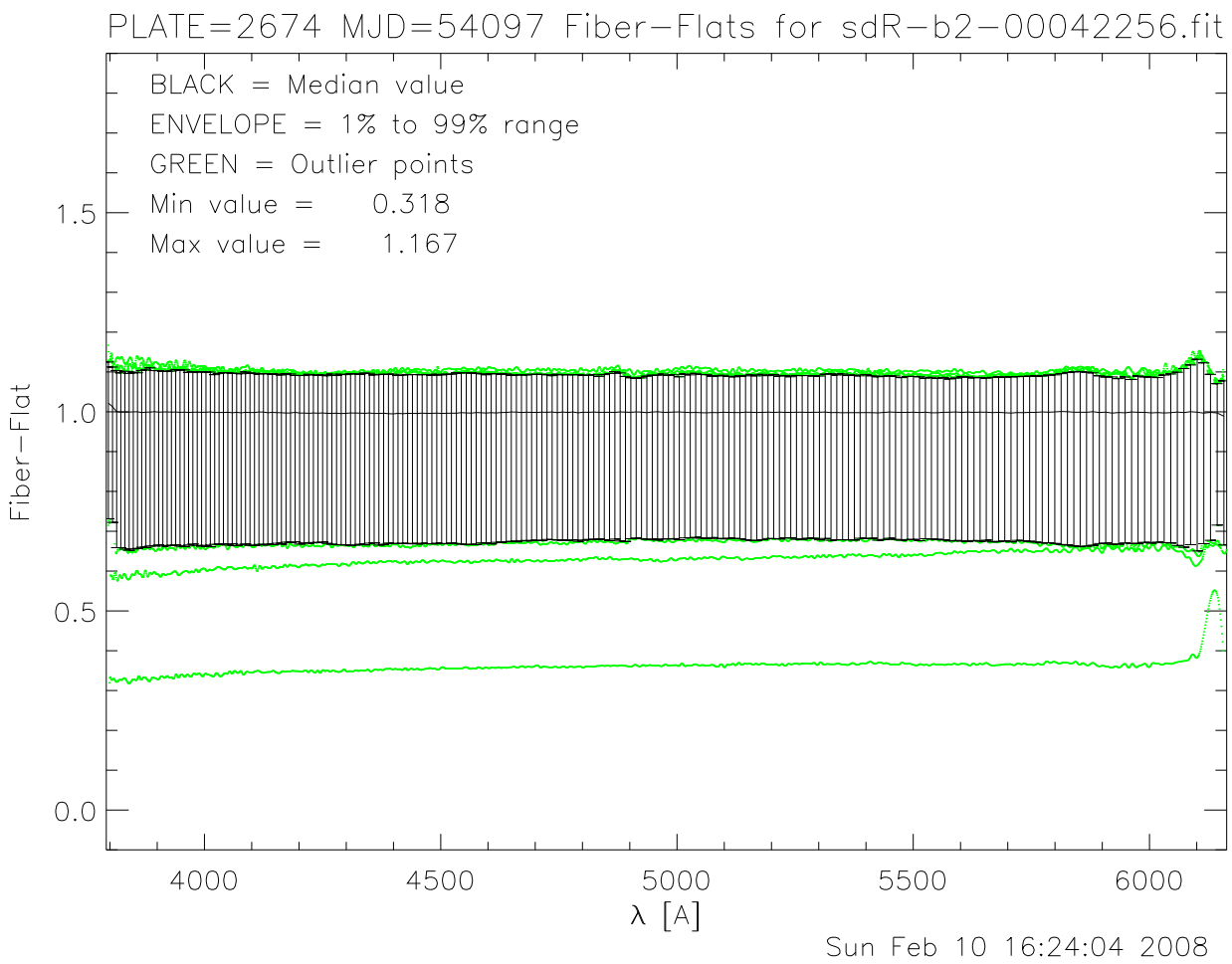

PLATE=2674 MJD=54097 flat extraction chi^2 for sdR−b2−00042251.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

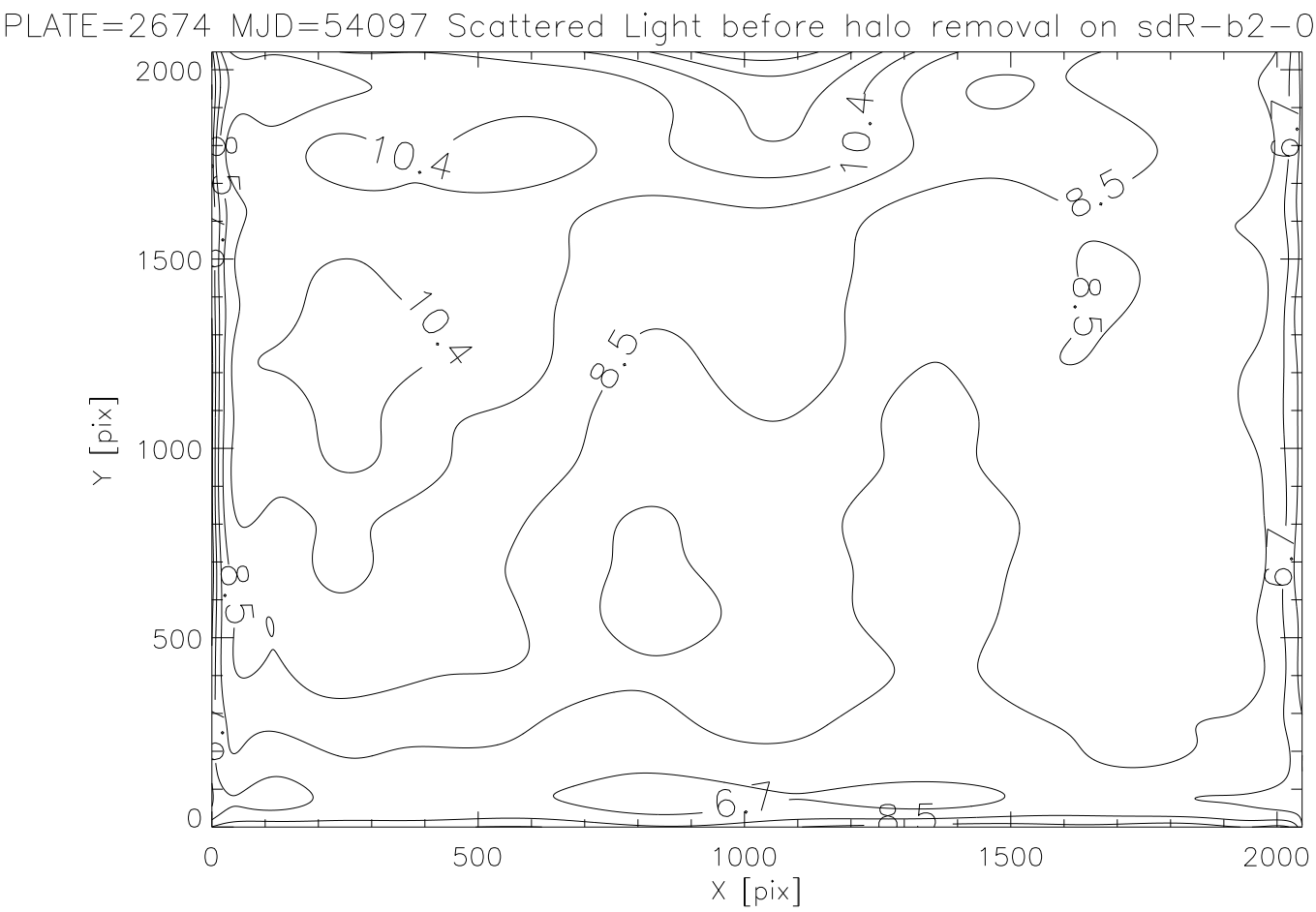

PLATE=2674 MJD=54097 Superflat sdR-b2-00042251.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

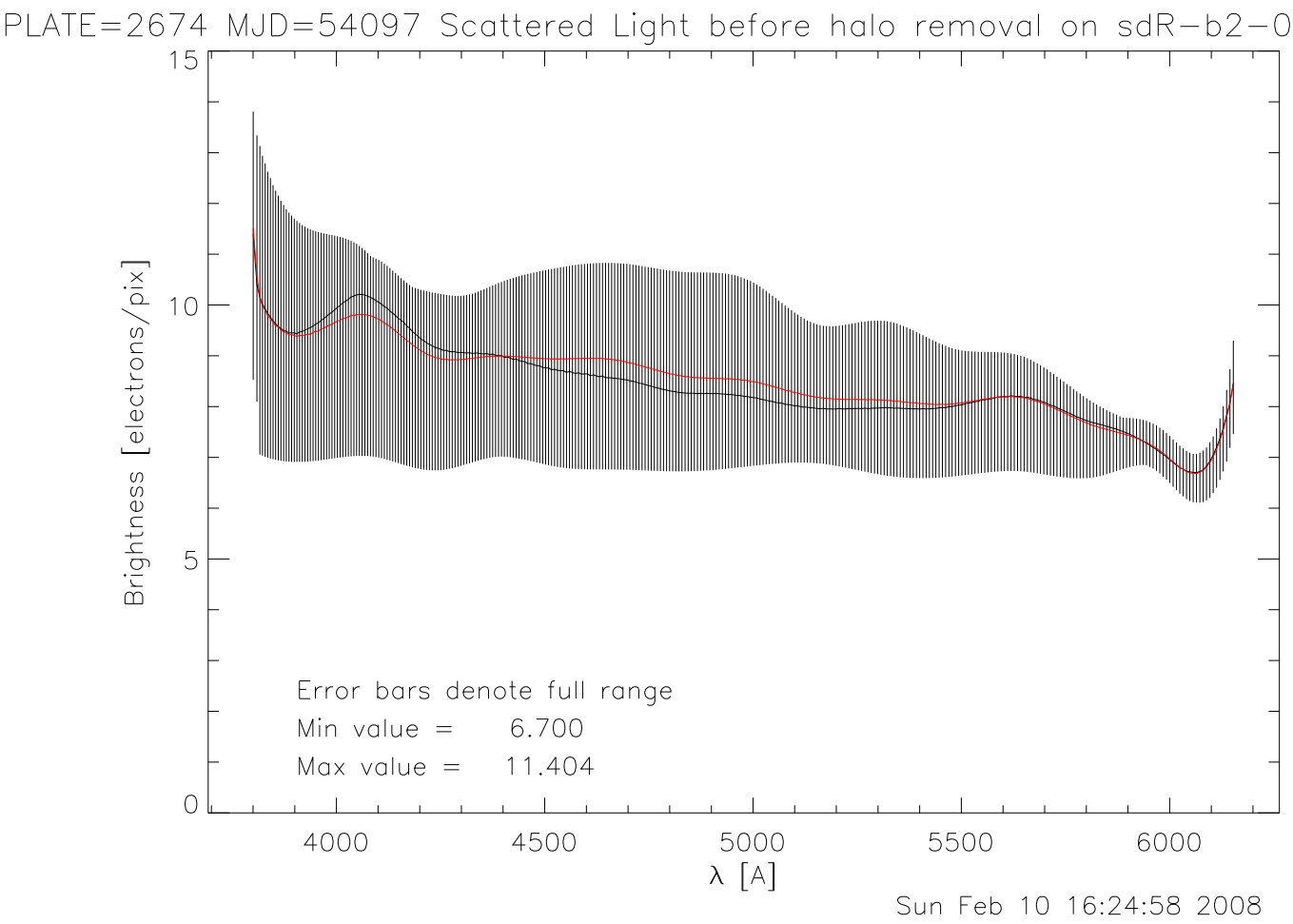

PLATE=2674 MJD=54097 flat extraction chi^2 for sdR-b2-00042256.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

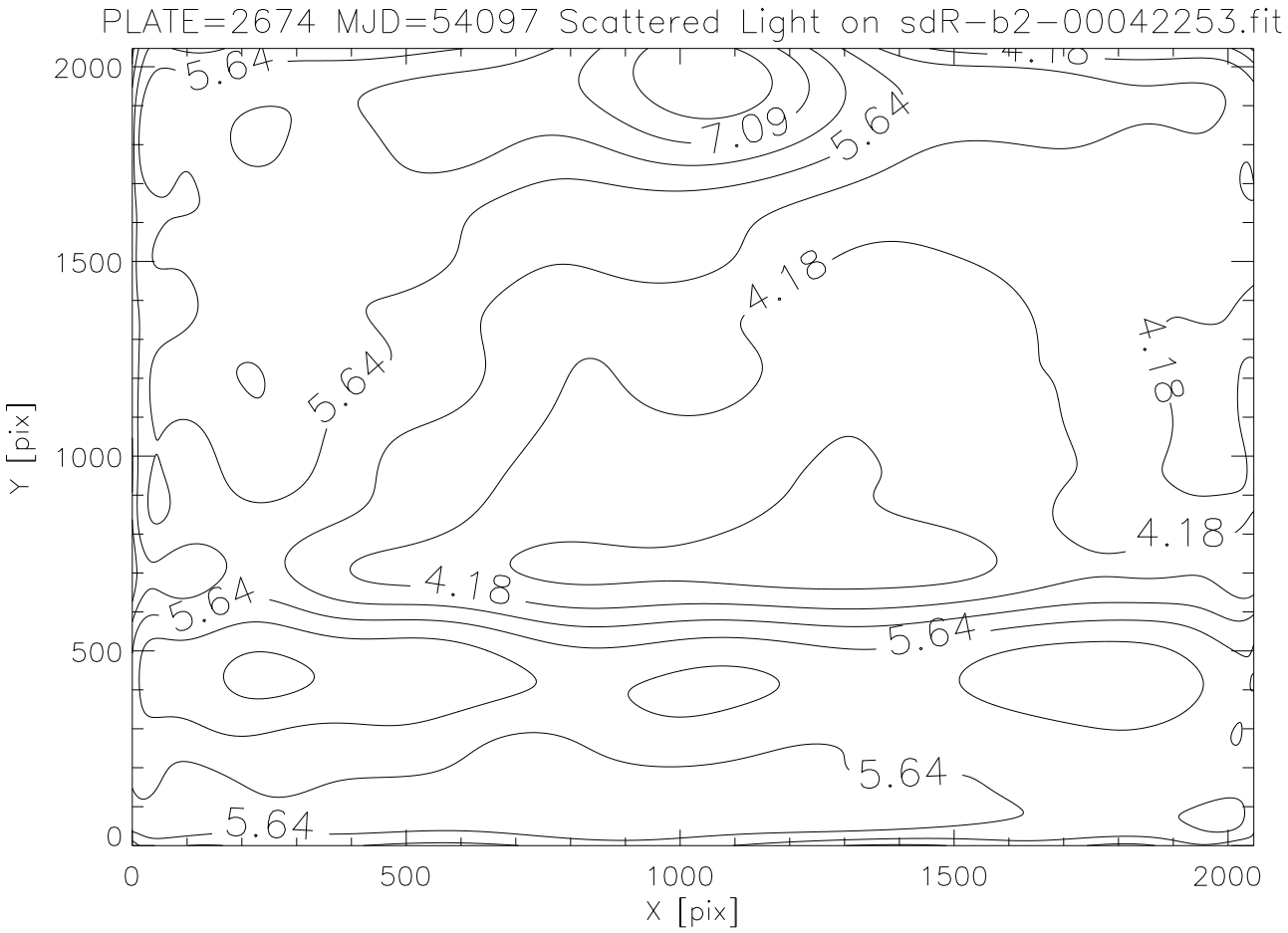

PLATE=2674 MJD=54097 Superflat sdR-b2-00042256.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

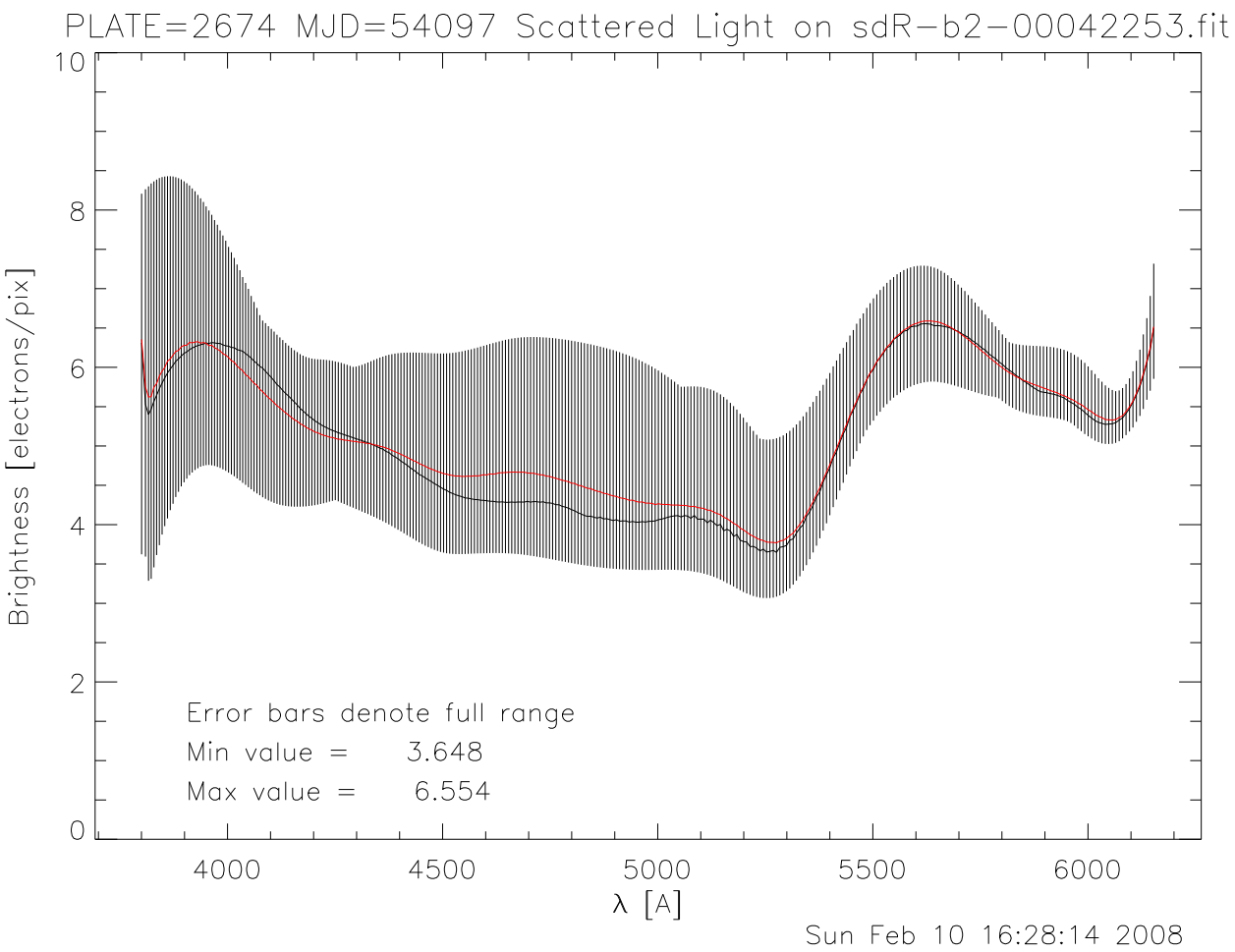

PLATE=2674 MJD=54097 Arcline Fit for sdR-b2-00042257.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Sun Feb 10 16:23:54 2008

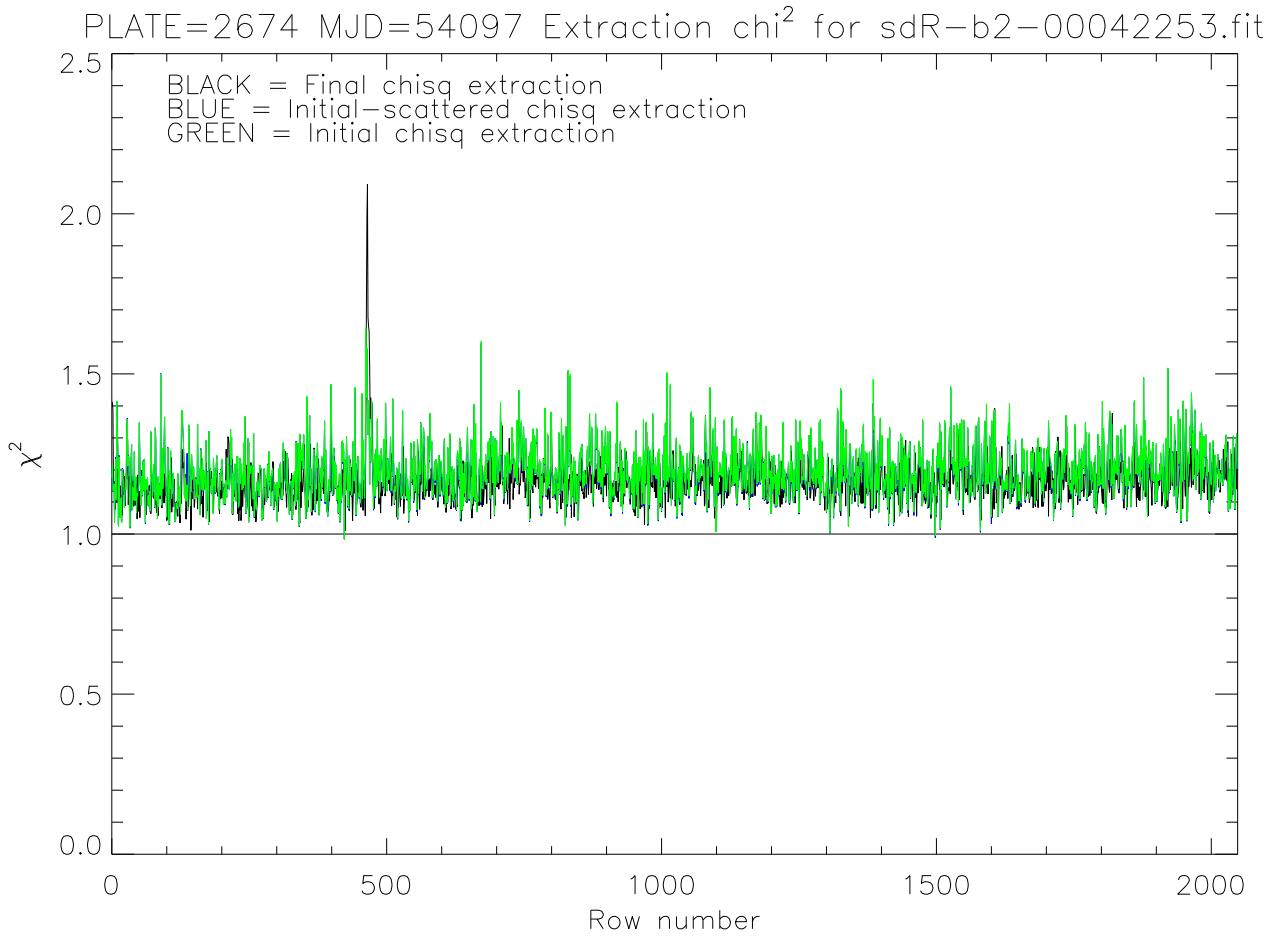

PLATE=2674 MJD=54097 Fiber-Flats for sdR-b2-00042256.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.318
Max value = 1.167
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sun Feb 10 16:24:04 2008

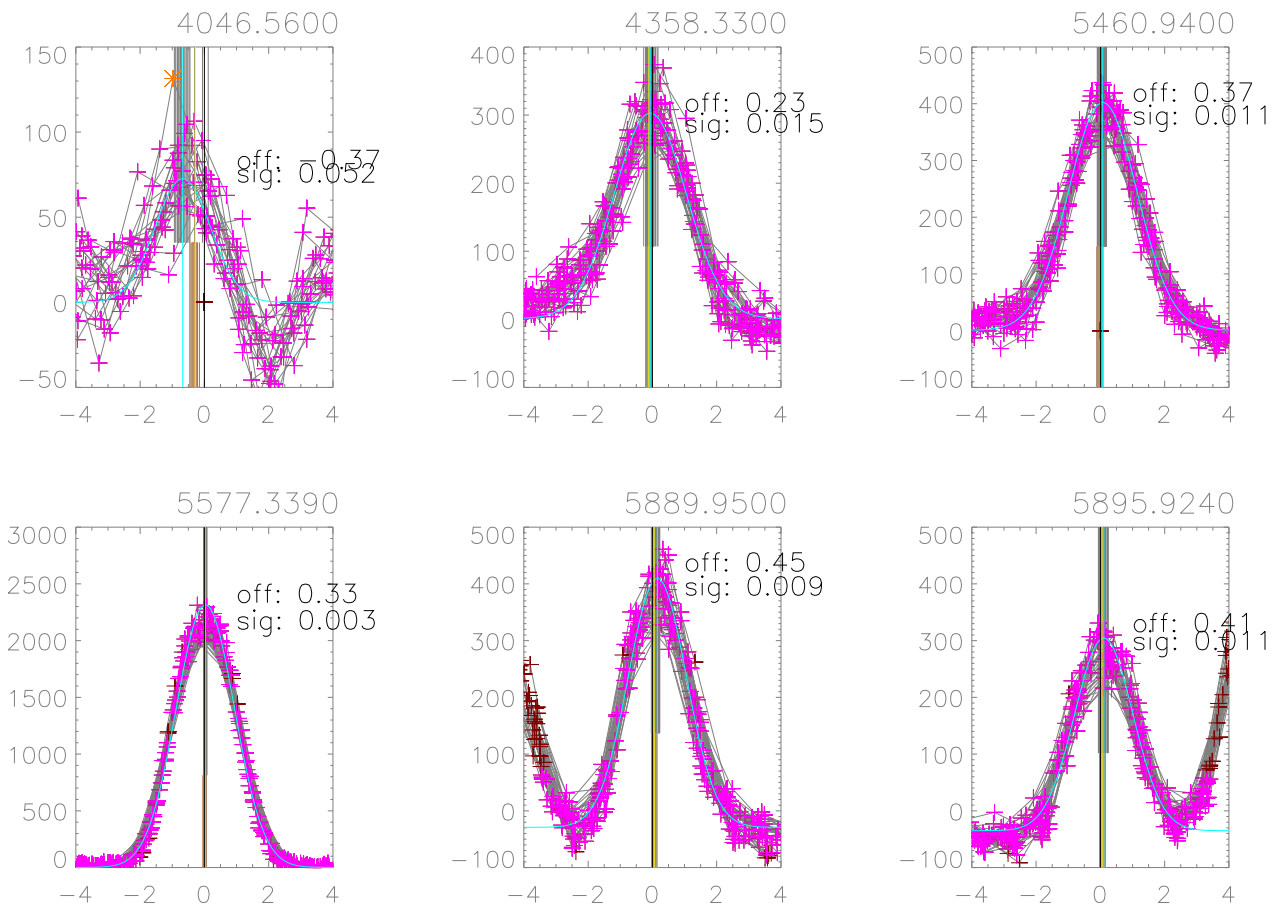

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR−b2−00042253.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
10.4
10.4
8.5
10.4
8.5
8.5
8.5
6.7
6.7
6.7
8.5

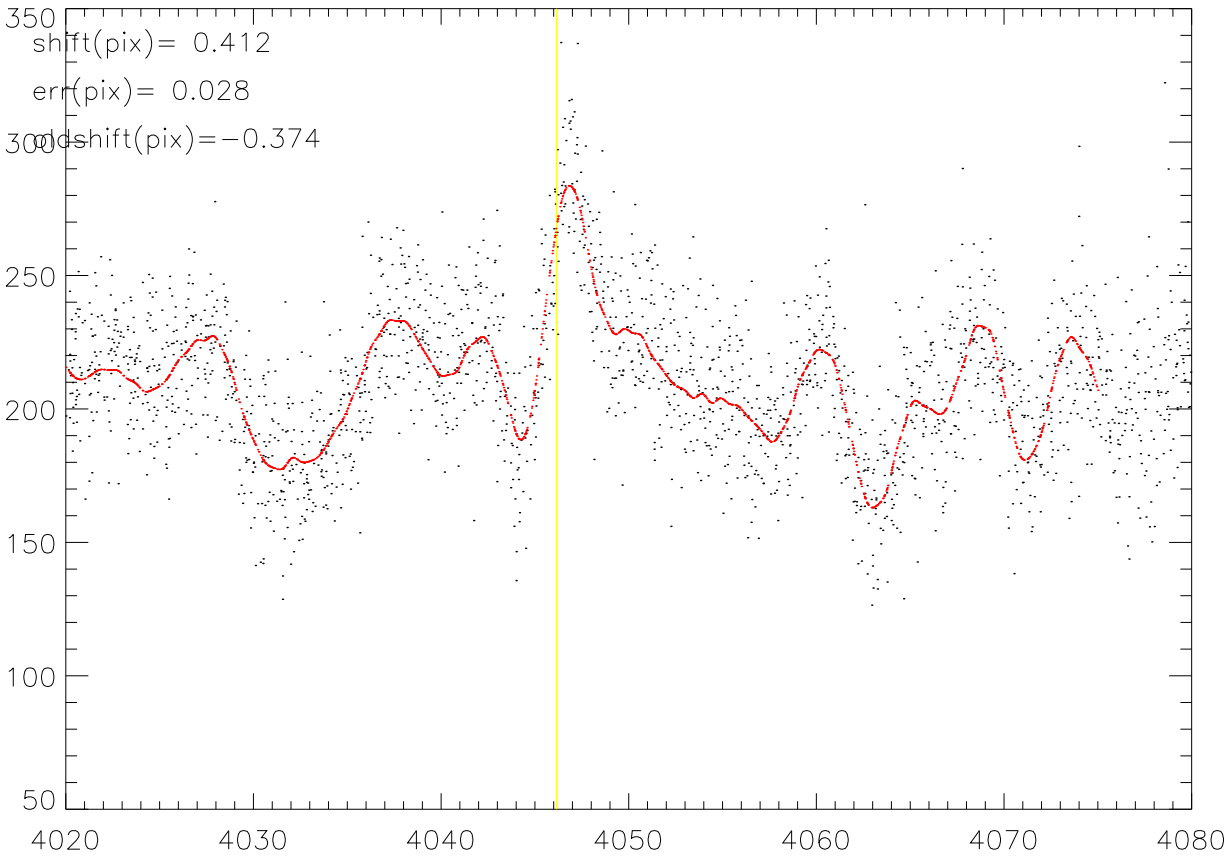

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR-b2-00042253.f
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 6.700
Max value = 11.404
Sun Feb 10 16:24:58 2008

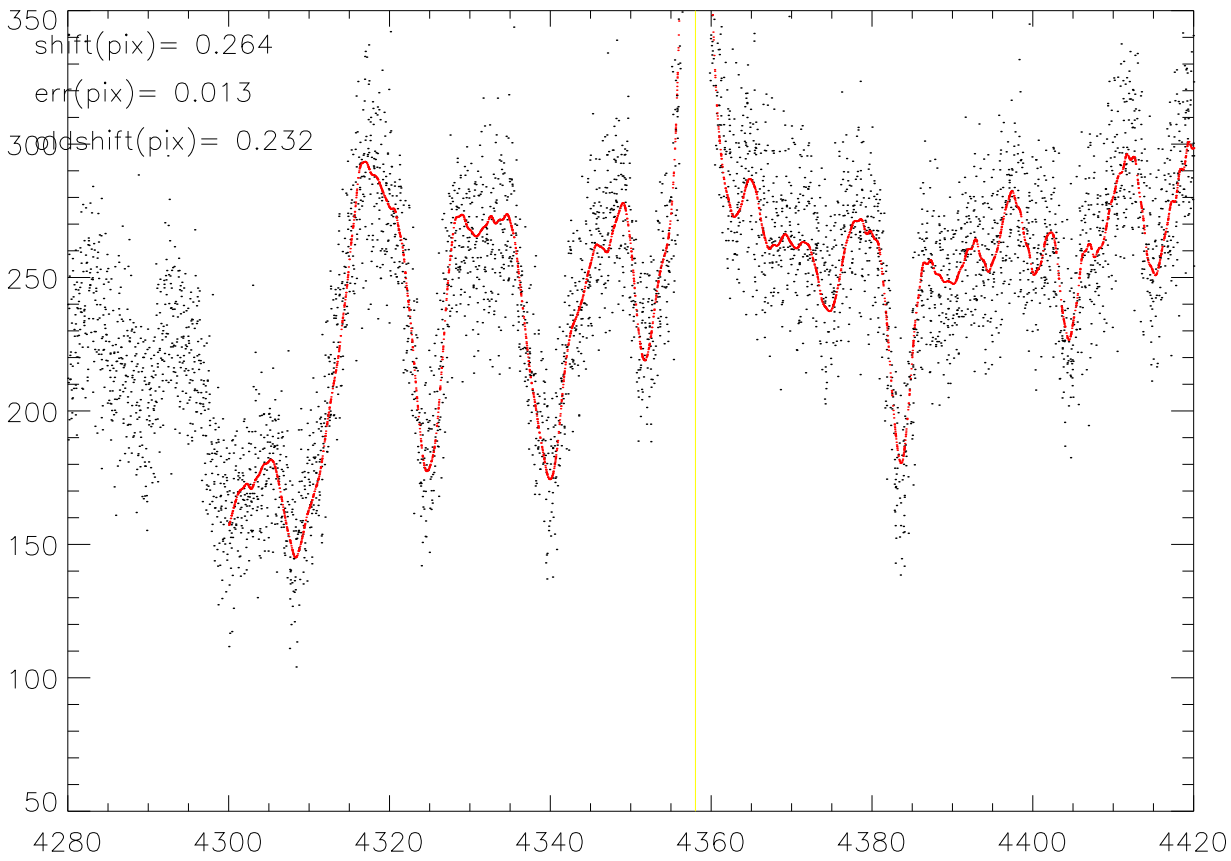

PLATE=2674 MJD=54097 Scattered Light on sdR-b2-00042253.fit
5.64
7.09
5.64
4.18
5.64
4.18
4.18
4.18
5.64
5.64
5.64
5.64
Y [pix]
X [pix]
0
500
1000
1500
2000

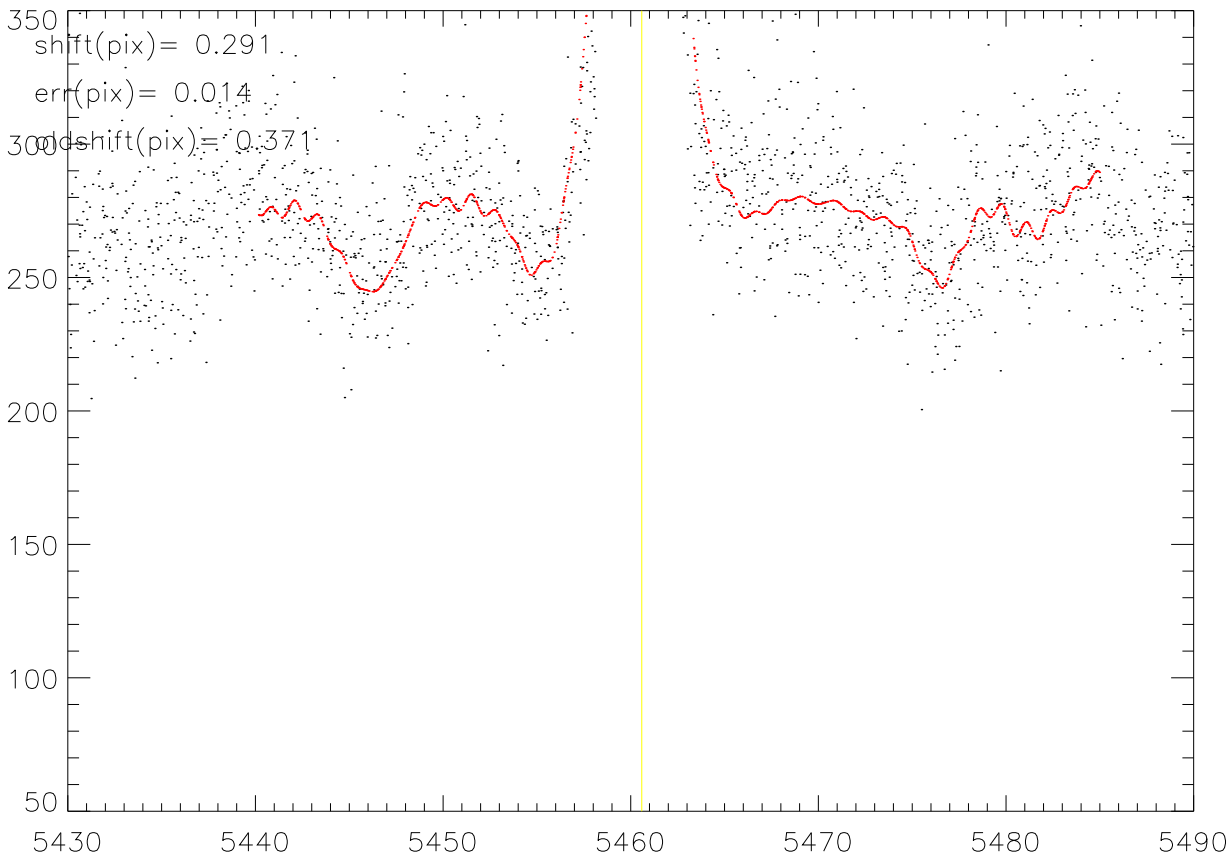

PLATE=2674 MJD=54097 Scattered Light on sdR-b2-00042253.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.648
Max value = 6.554
Sun Feb 10 16:28:14 2008

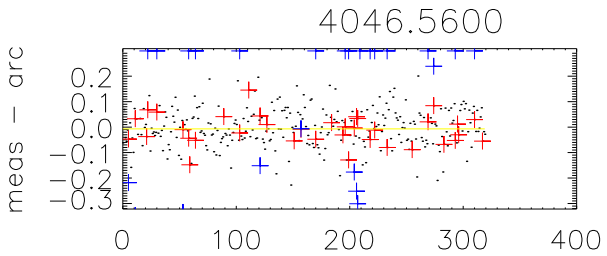

PLATE=2674 MJD=54097 Extraction chi^2 for sdR-b2-00042253.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

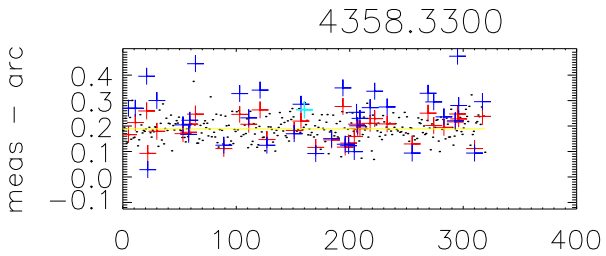

4046.5600
off: -0.37
sig: 0.052
4358.3300
off: 0.23
sig: 0.015
5460.9400
off: 0.37
sig: 0.011
5577.3390
off: 0.33
sig: 0.003
5889.9500
off: 0.45
sig: 0.009
5895.9240
off: 0.41
sig: 0.011

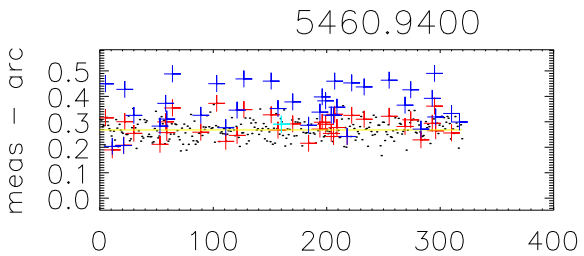

shift(pix)= 0.412
err(pix)= 0.028
oldshift(pix)=−0.374
350
300
250
200
150
100
50
4020
4030
4040
4050
4060
4070
4080

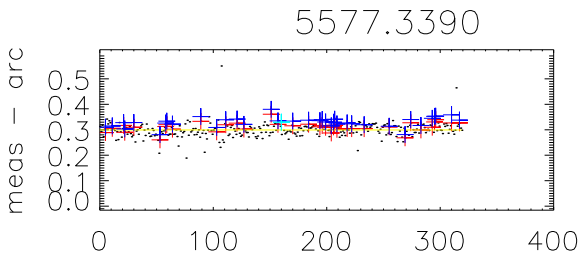

shift(pix)= 0.264
err(pix)= 0.013
oldshift(pix)= 0.232
350
300
250
200
150
100
50
4280
4300
4320
4340
4360
4380
4400
4420

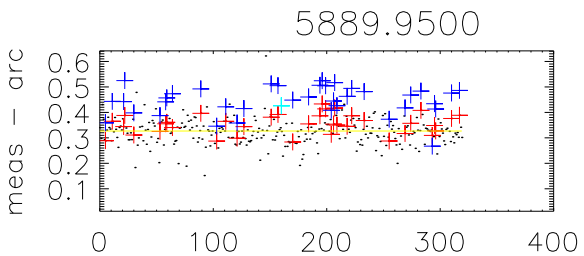

shift(pix)= 0.291
err(pix)= 0.014
oldshift(pix)= 0.371
350
300
250
200
150
100
50
5430
5440
5450
5460
5470
5480
5490

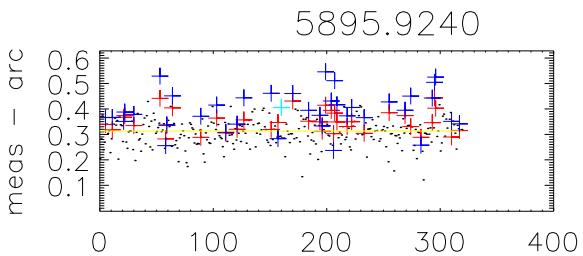

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

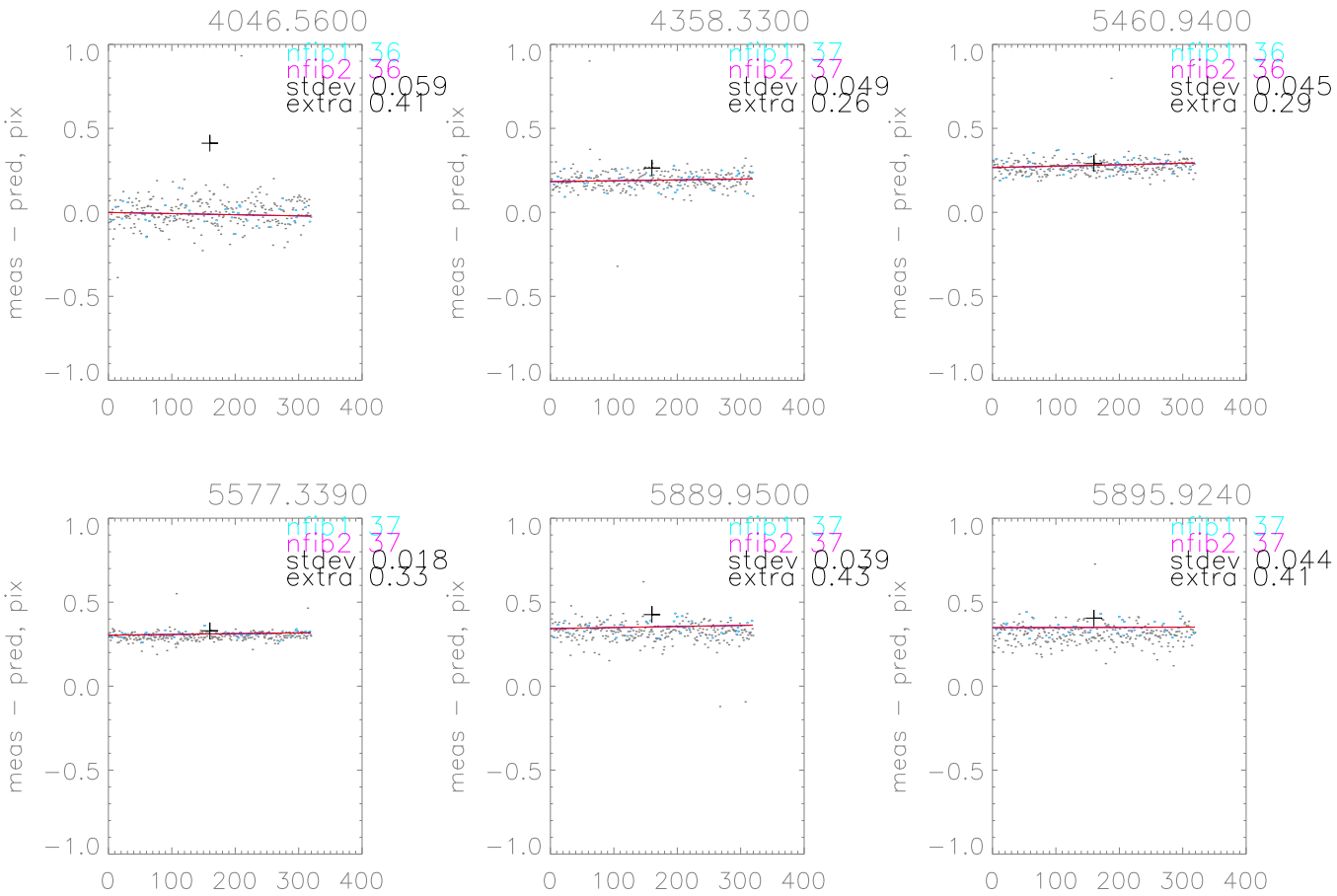

4358.3300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

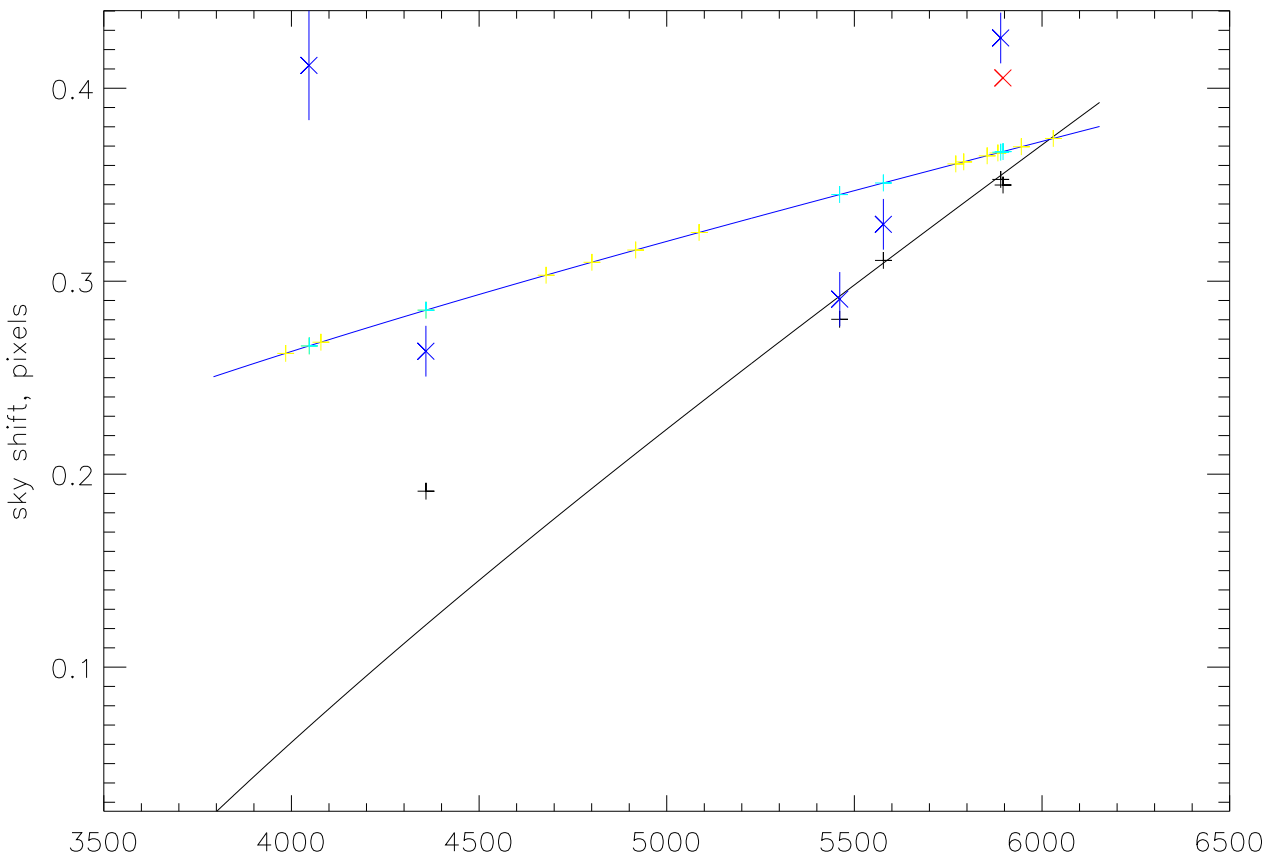

5460.9400
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

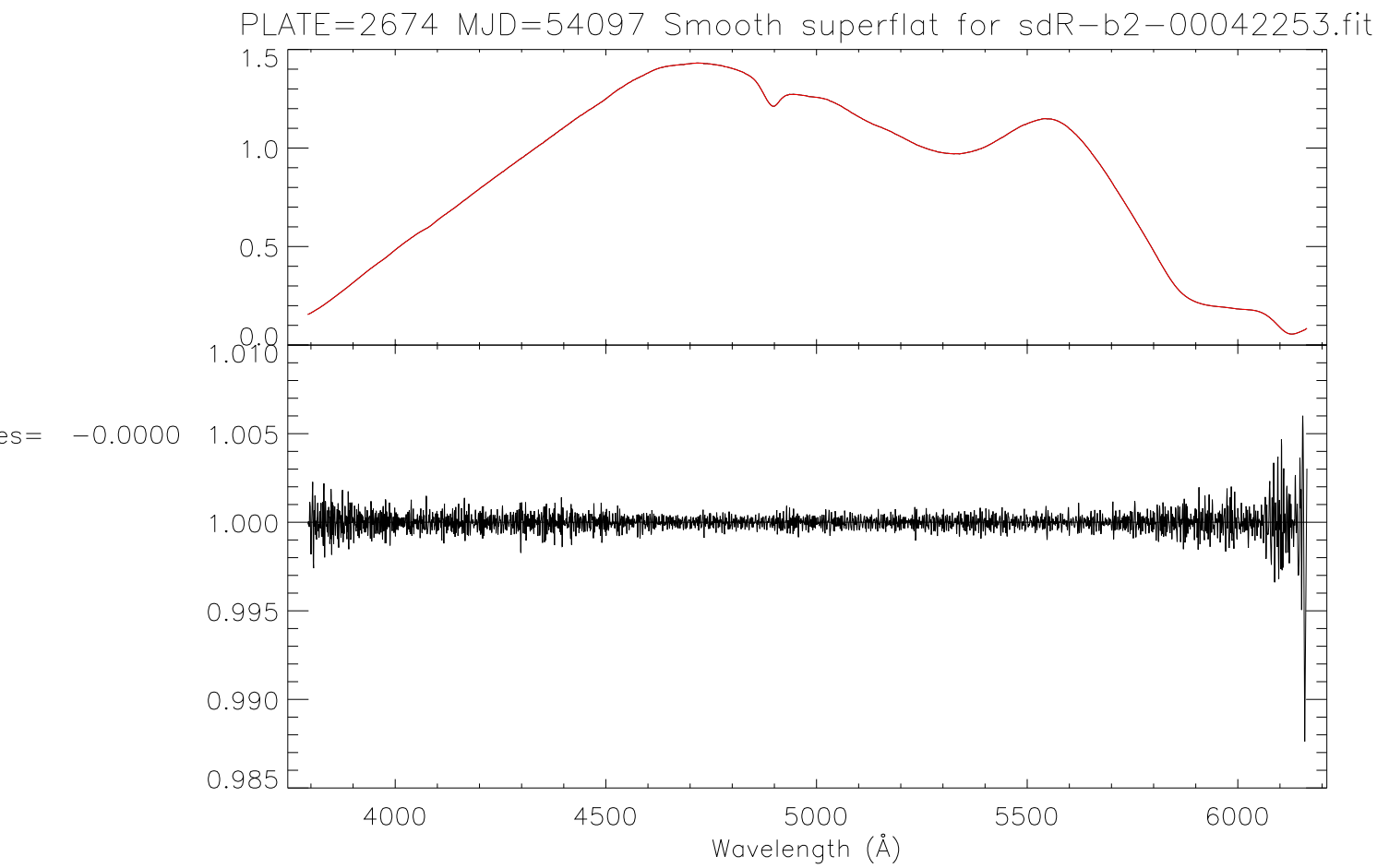

5577.3390
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

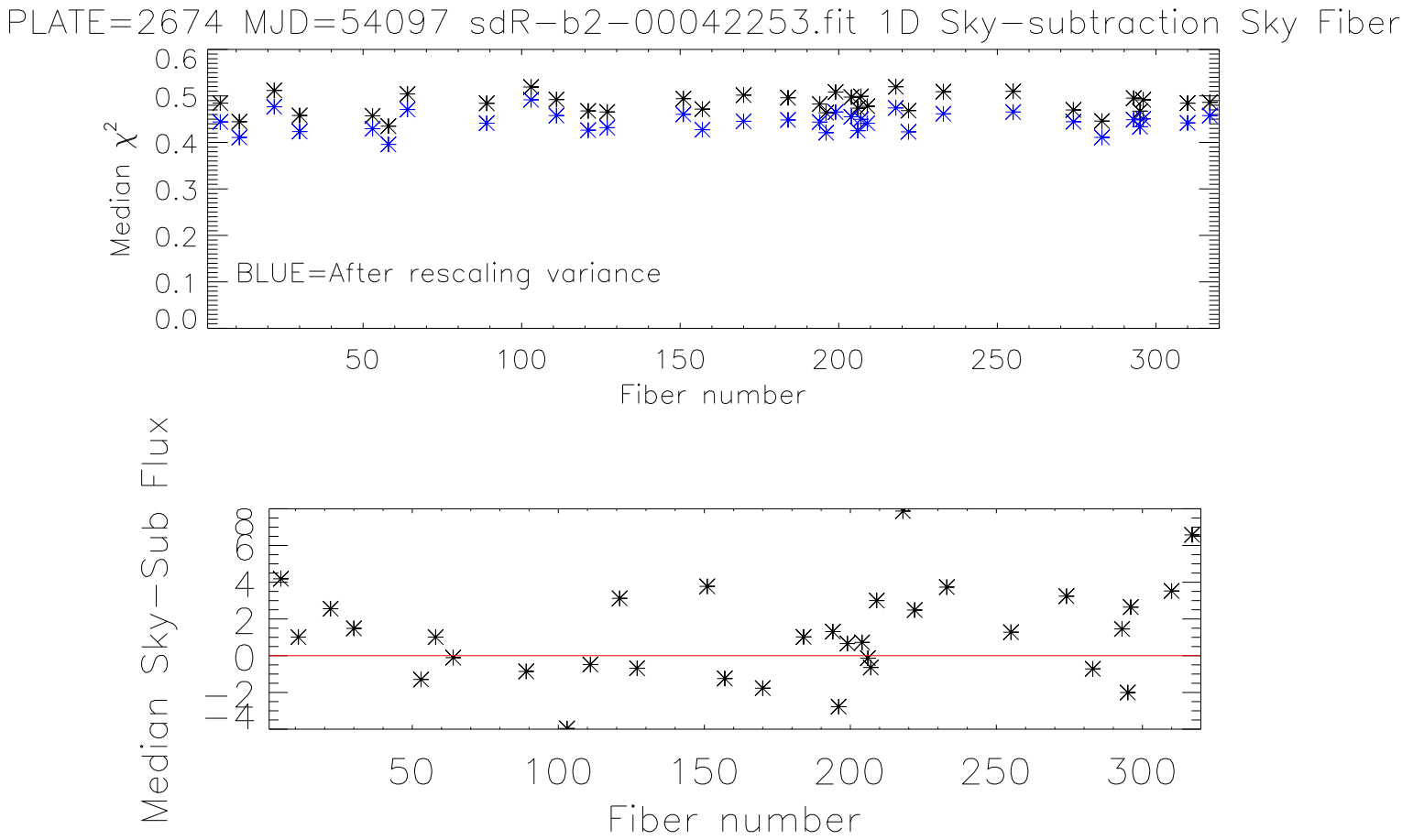

5889.9500
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

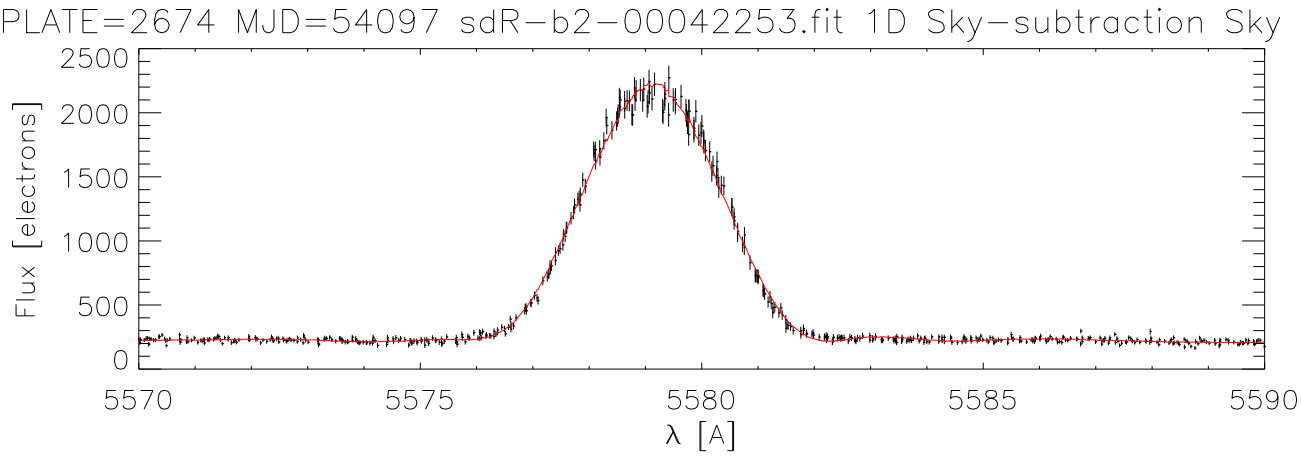

5895.9240
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

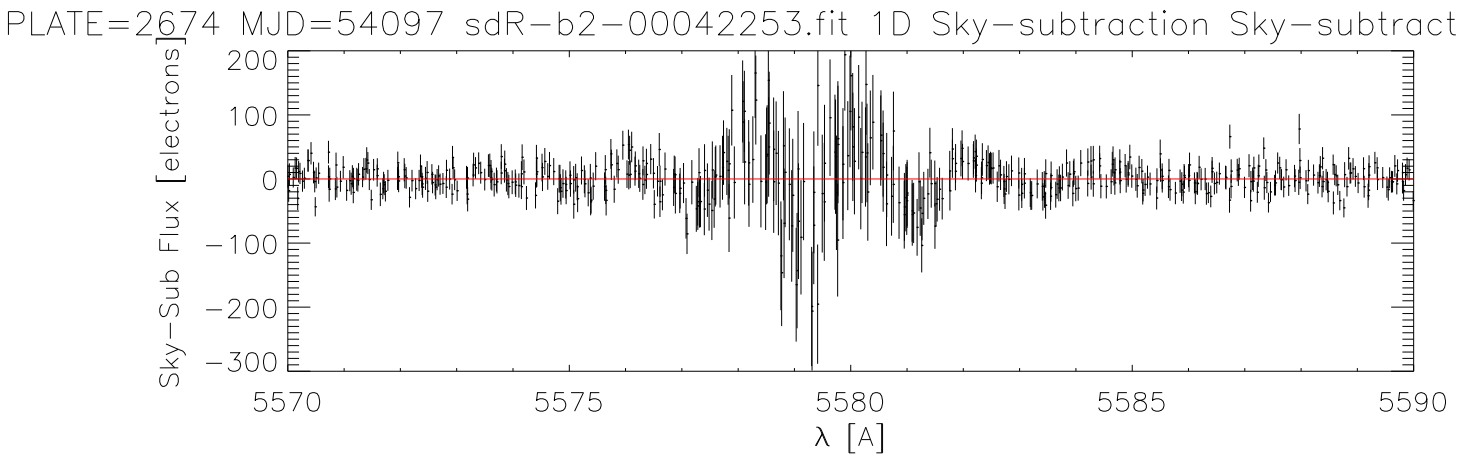

4046.5600
nfib1 36
nfib2 36
stdev 0.059
extra 0.41
4358.3300
nfib1 37
nfib2 37
stdev 0.049
extra 0.26
5460.9400
nfib1 36
nfib2 36
stdev 0.045
extra 0.29
5577.3390
nfib1 37
nfib2 37
stdev 0.018
extra 0.33
5889.9500
nfib1 37
nfib2 37
stdev 0.039
extra 0.43
5895.9240
nfib1 37
nfib2 37
stdev 0.044
extra 0.41
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

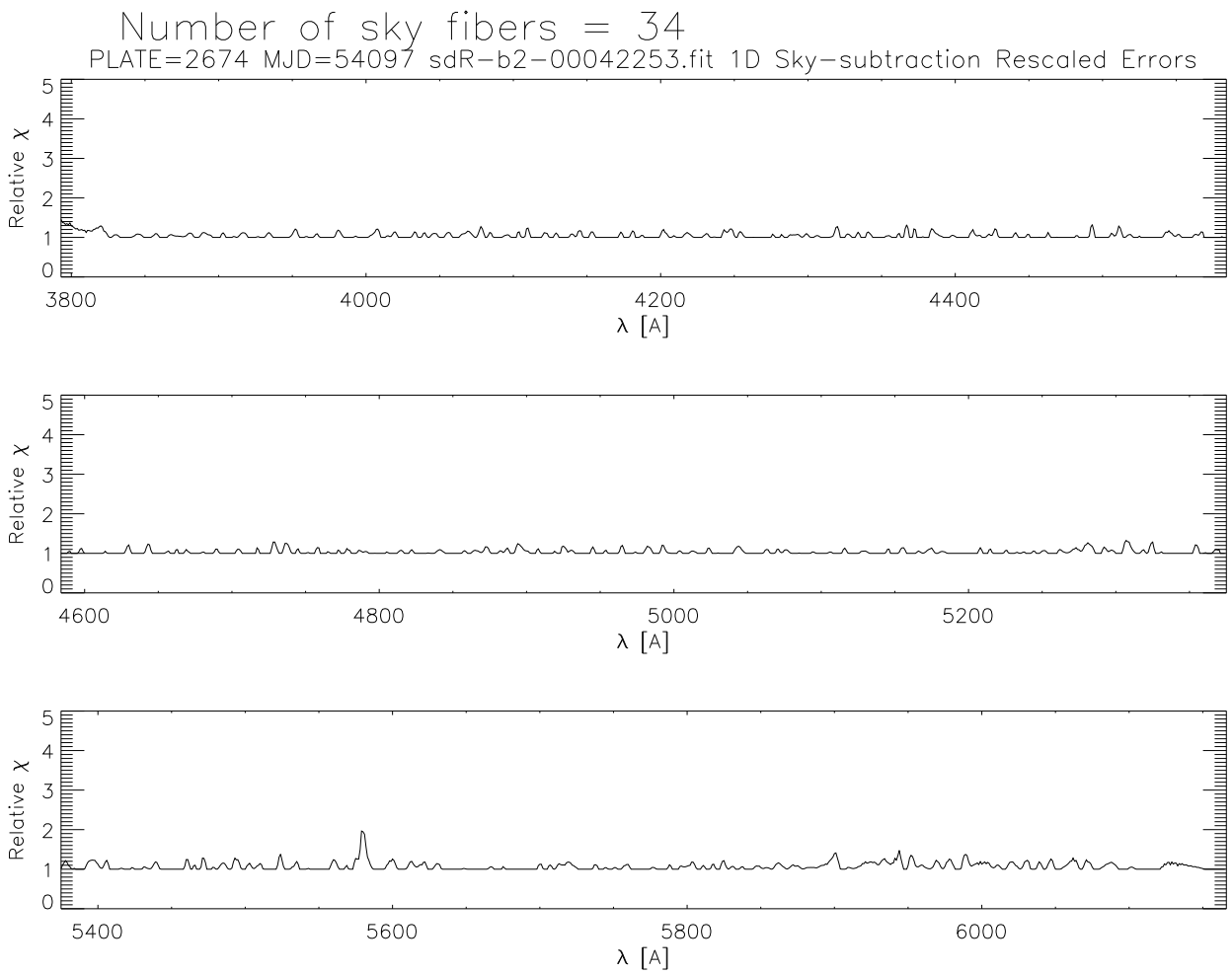

sky shift, pixels
0.4
0.3
0.2
0.1
3500
4000
4500
5000
5500
6000
6500

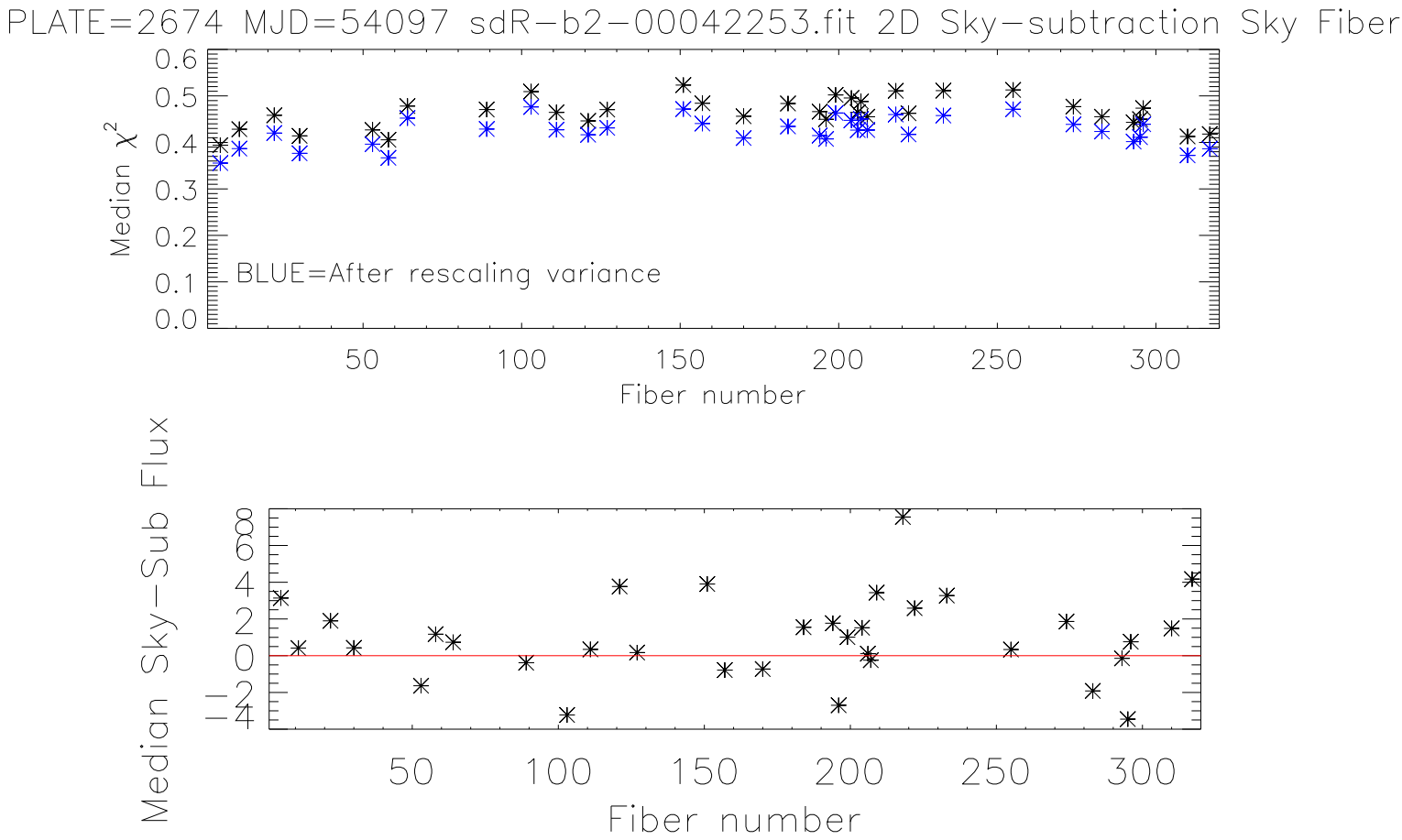

PLATE=2674 MJD=54097 Smooth superflat for sdR-b2-00042253.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

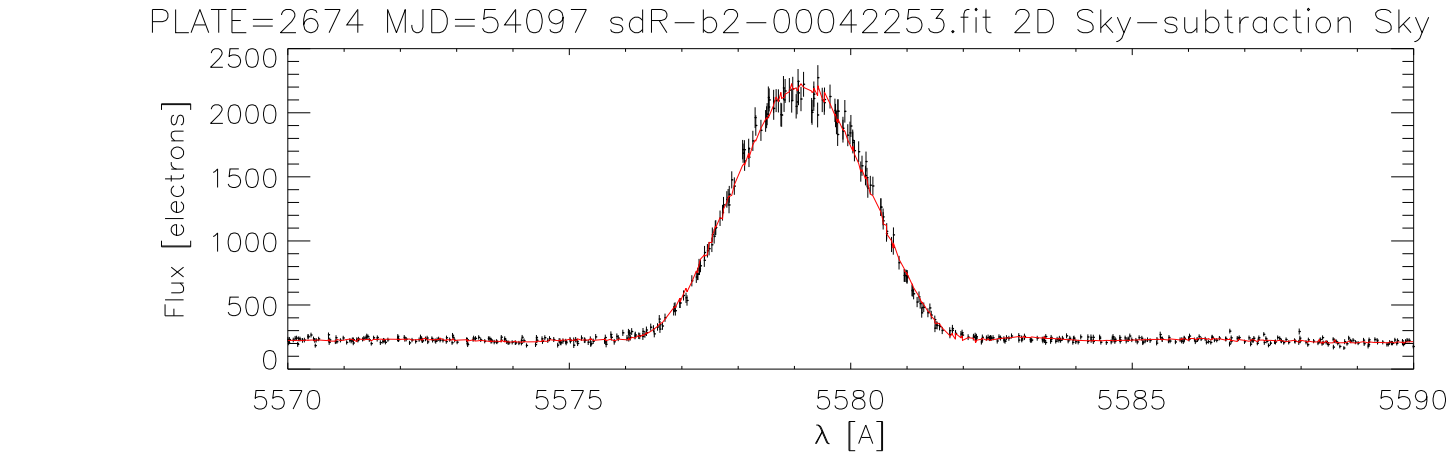

PLATE=2674 MJD=54097 sdR-b2-00042253.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

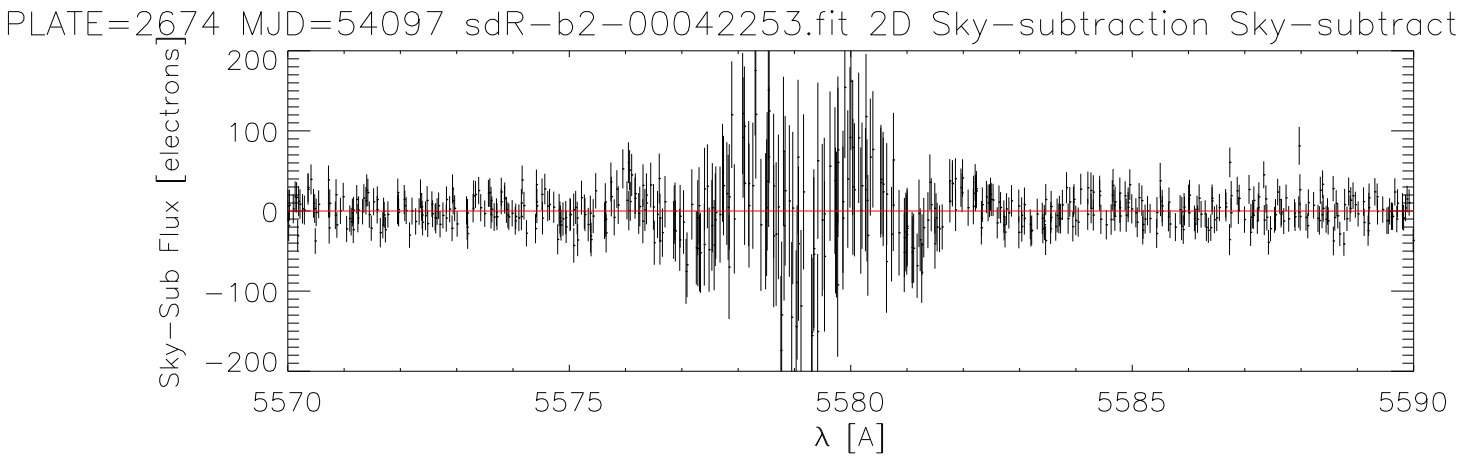

PLATE=2674 MJD=54097 sdR-b2-00042253.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

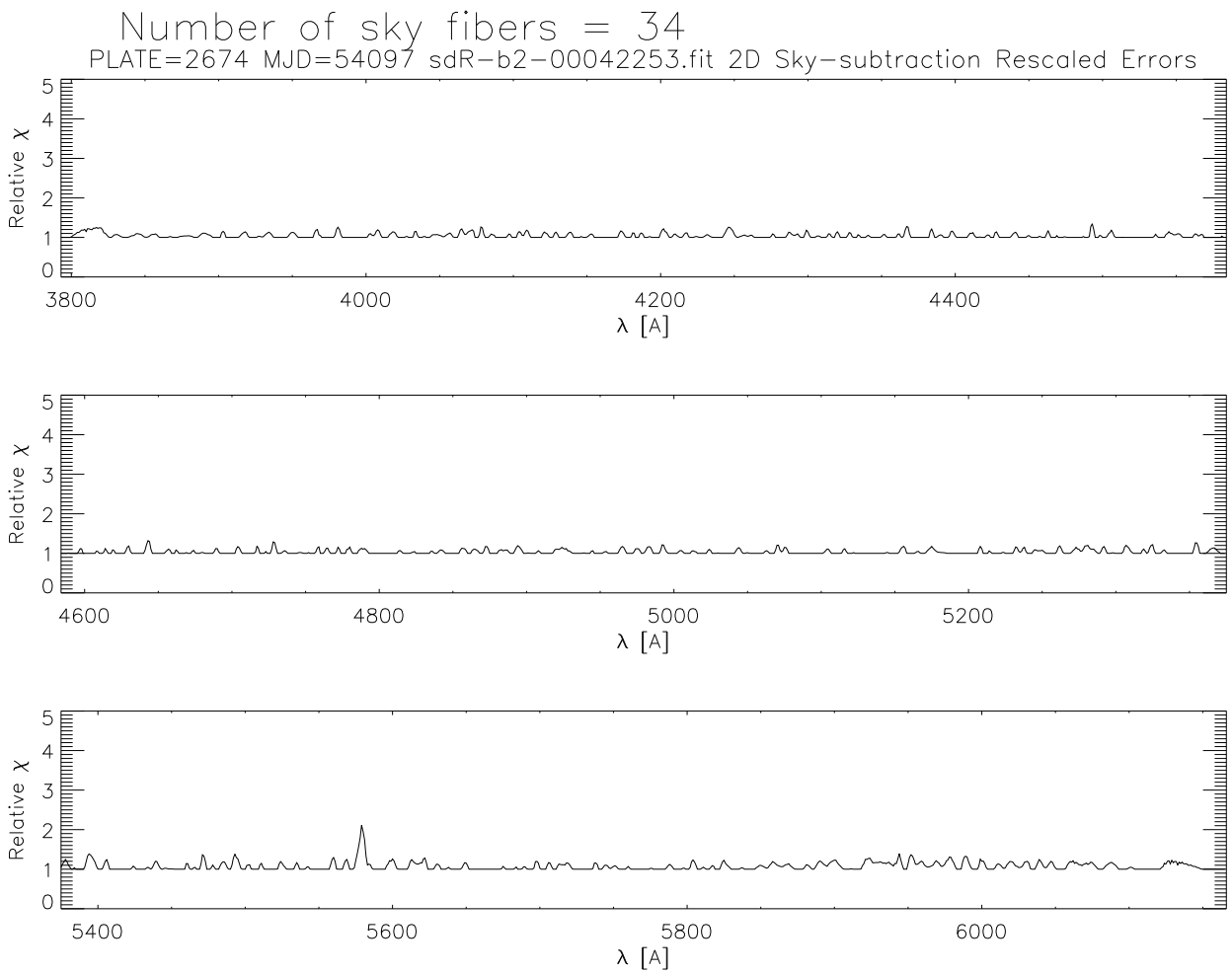

PLATE=2674 MJD=54097 sdR-b2-00042253.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

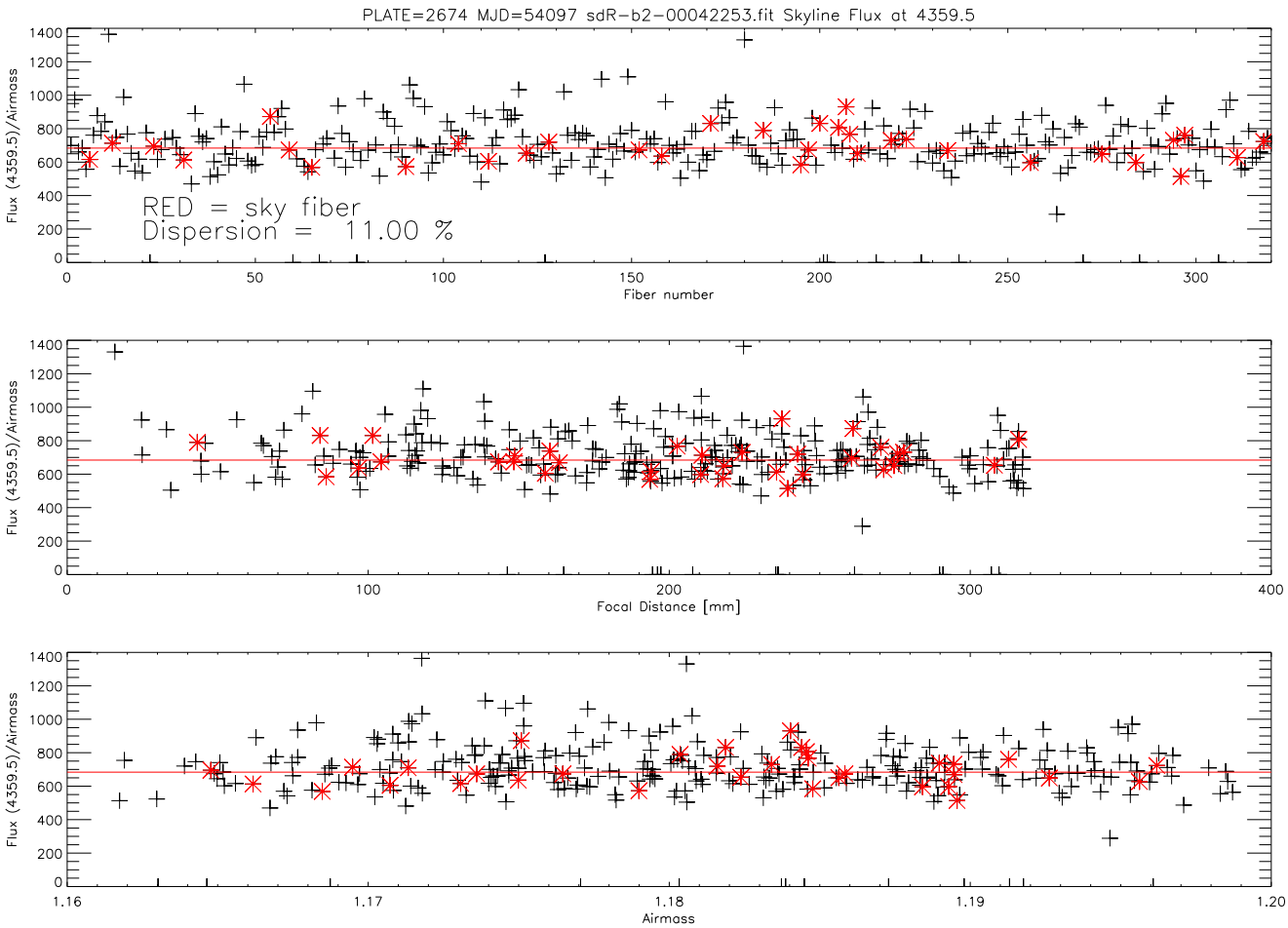

Number of sky fibers = 34
PLATE=2674 MJD=54097 sdR-b2-00042253.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

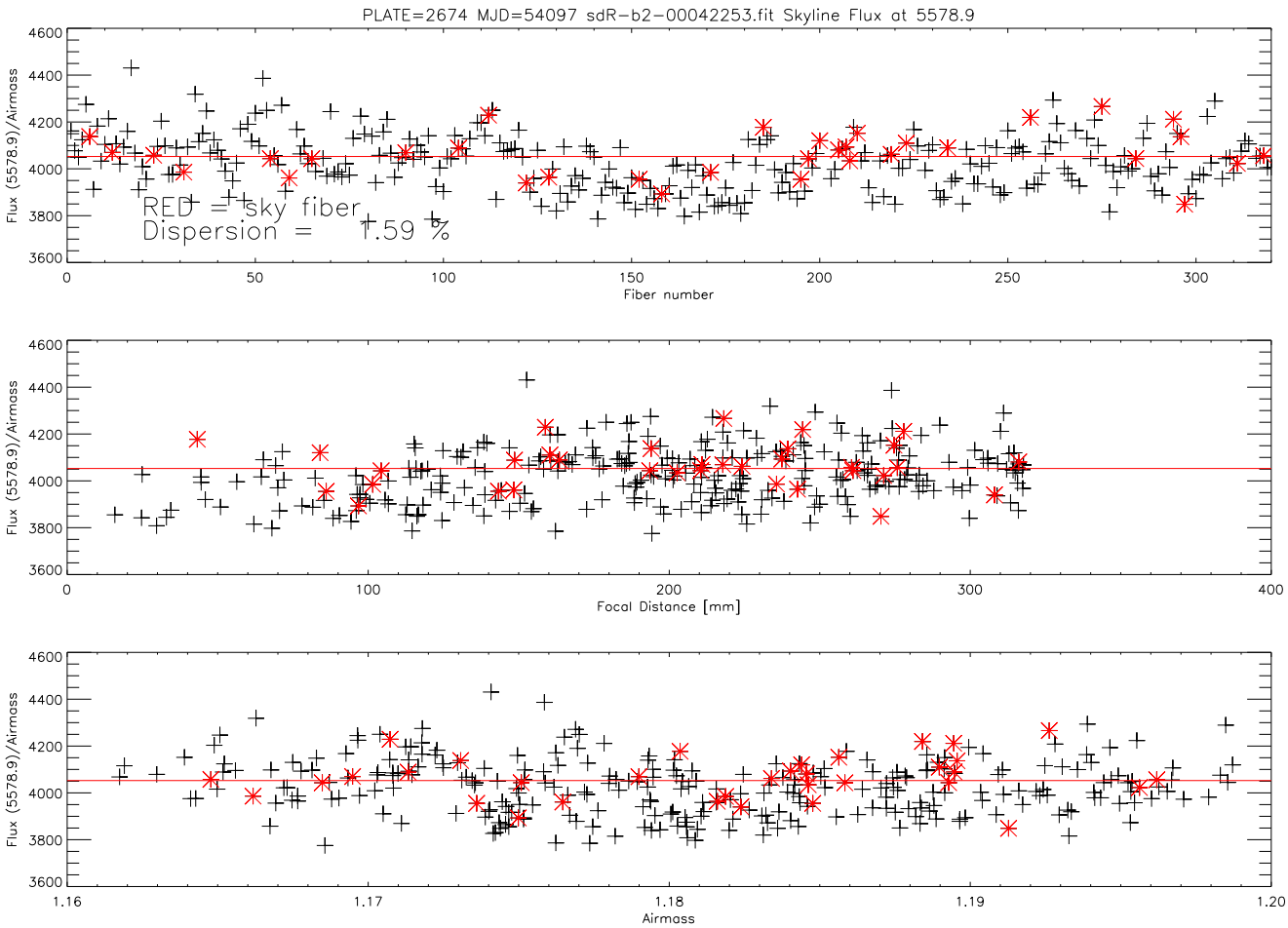

PLATE=2674 MJD=54097 sdR-b2-00042253.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

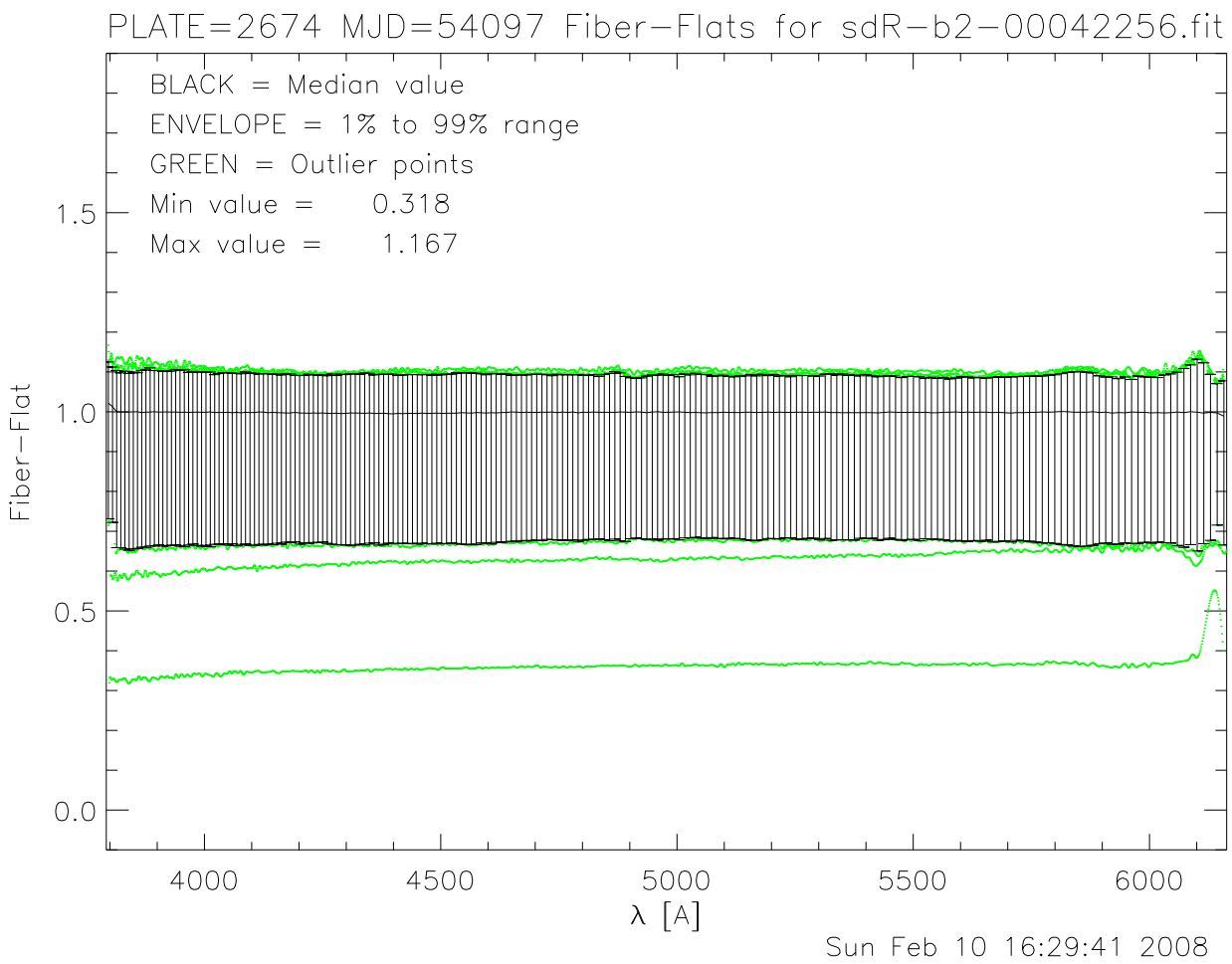

PLATE=2674 MJD=54097 sdR-b2-00042253.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

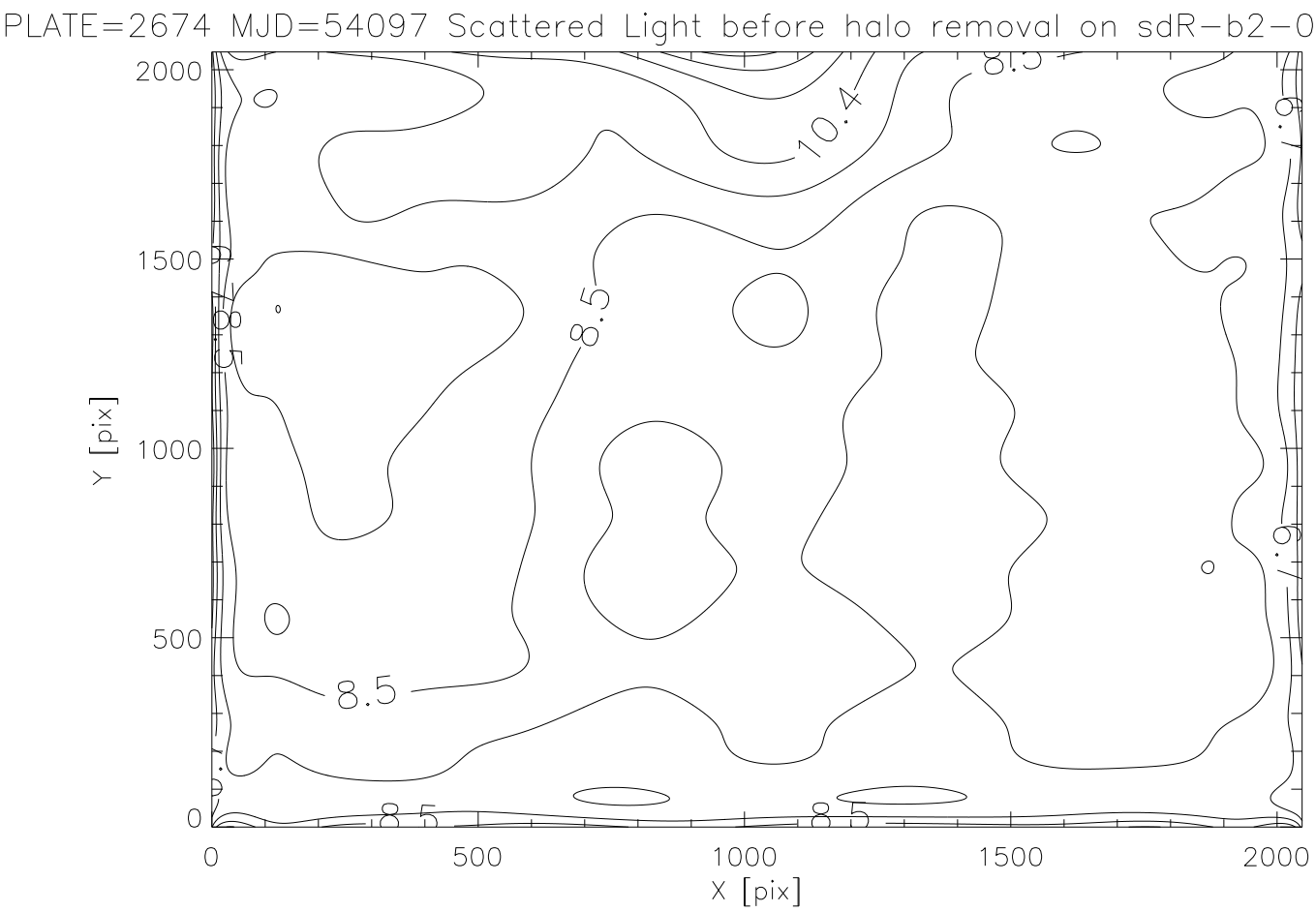

PLATE=2674 MJD=54097 sdR-b2-00042253.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

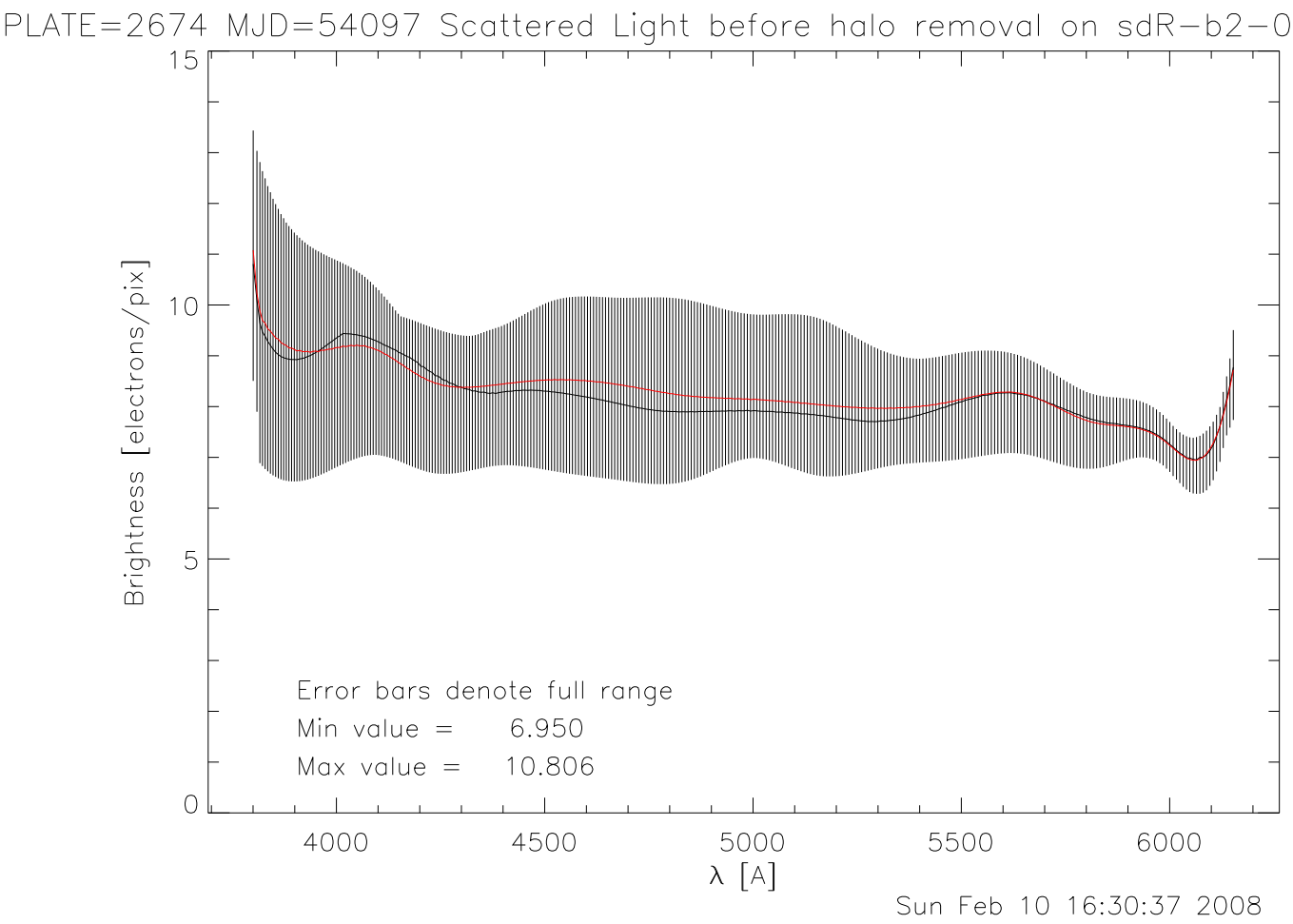

Number of sky fibers = 34
PLATE=2674 MJD=54097 sdR-b2-00042253.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

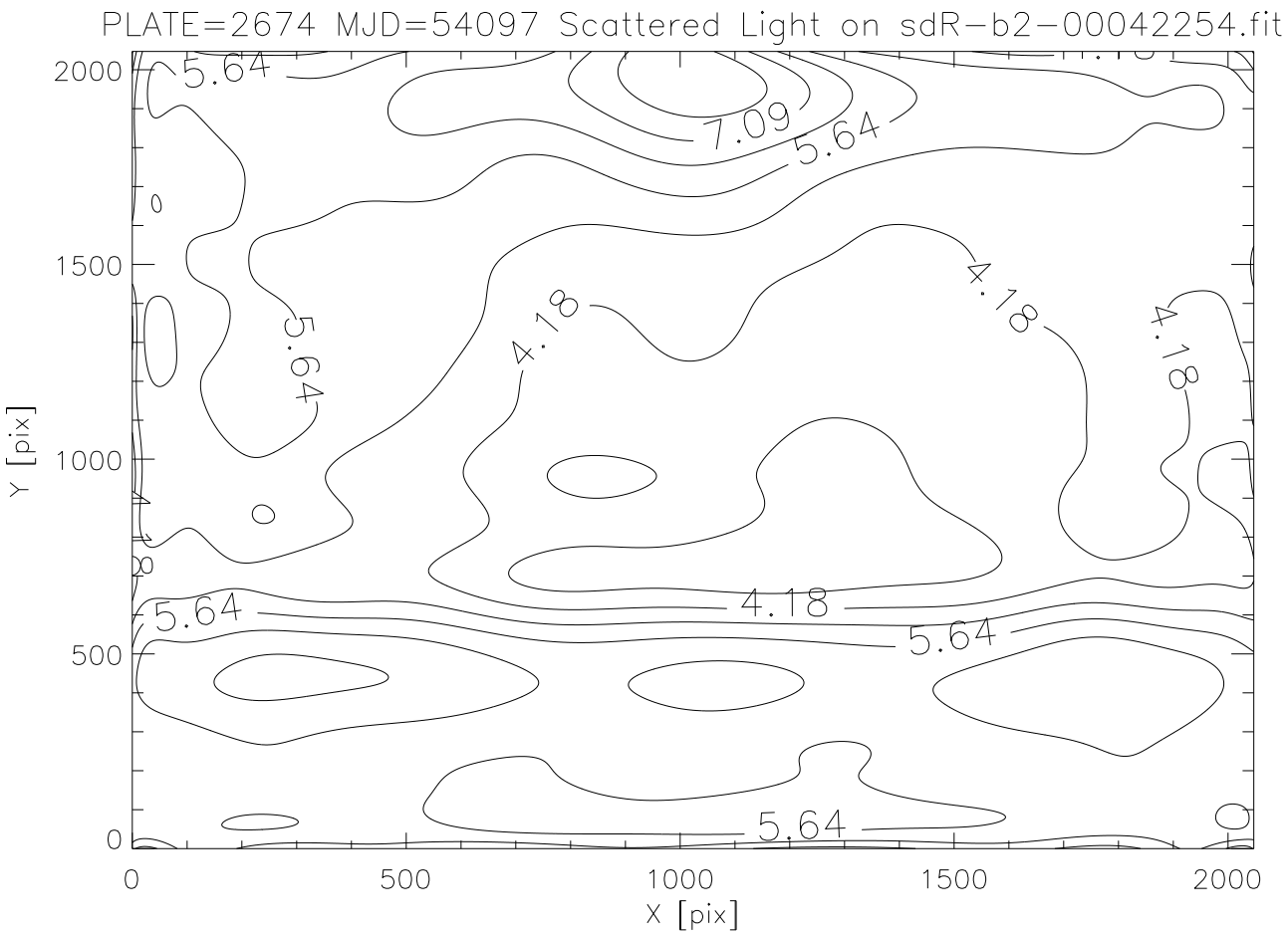

PLATE=2674 MJD=54097 sdR-b2-00042253.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 11.00 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

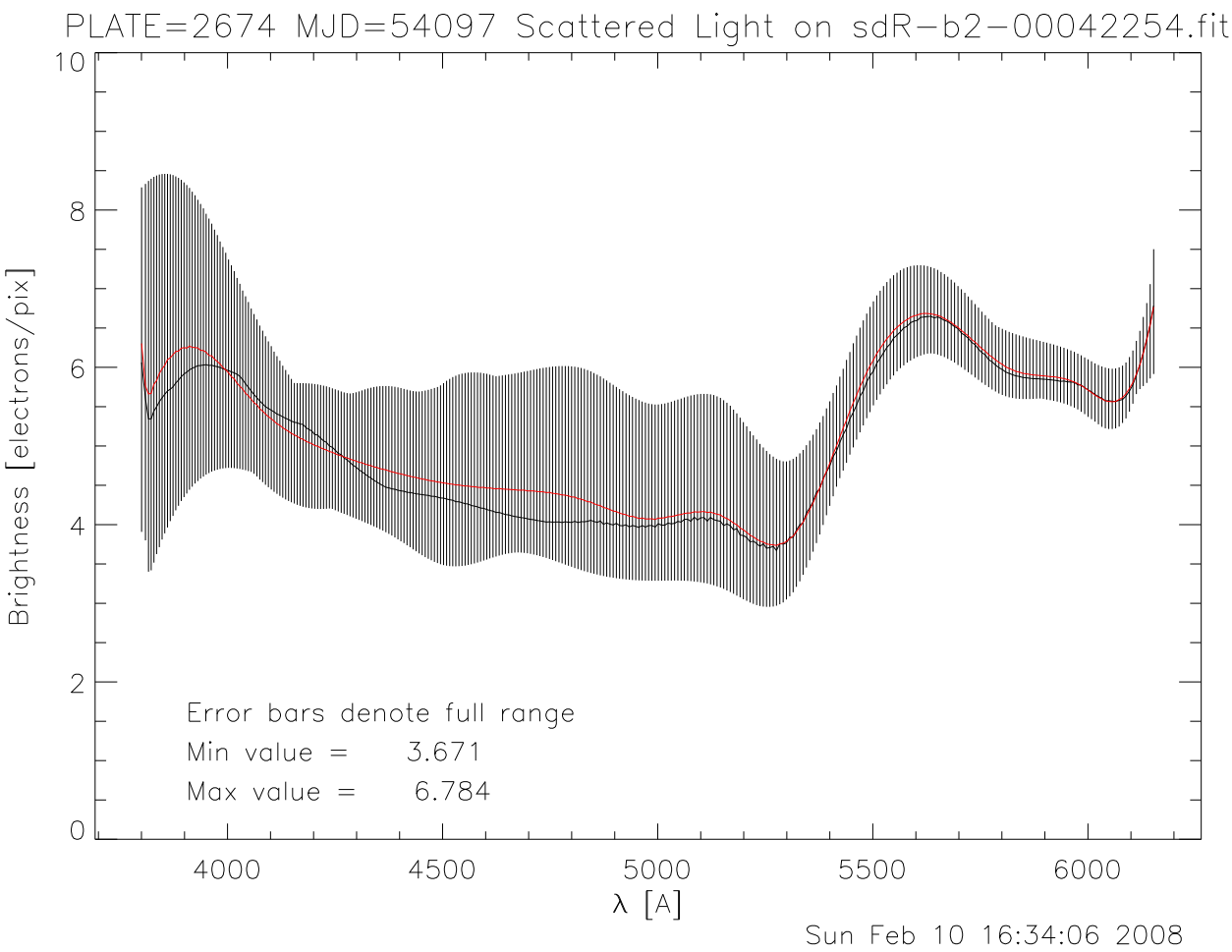

PLATE=2674 MJD=54097 sdR-b2-00042253.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.59 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

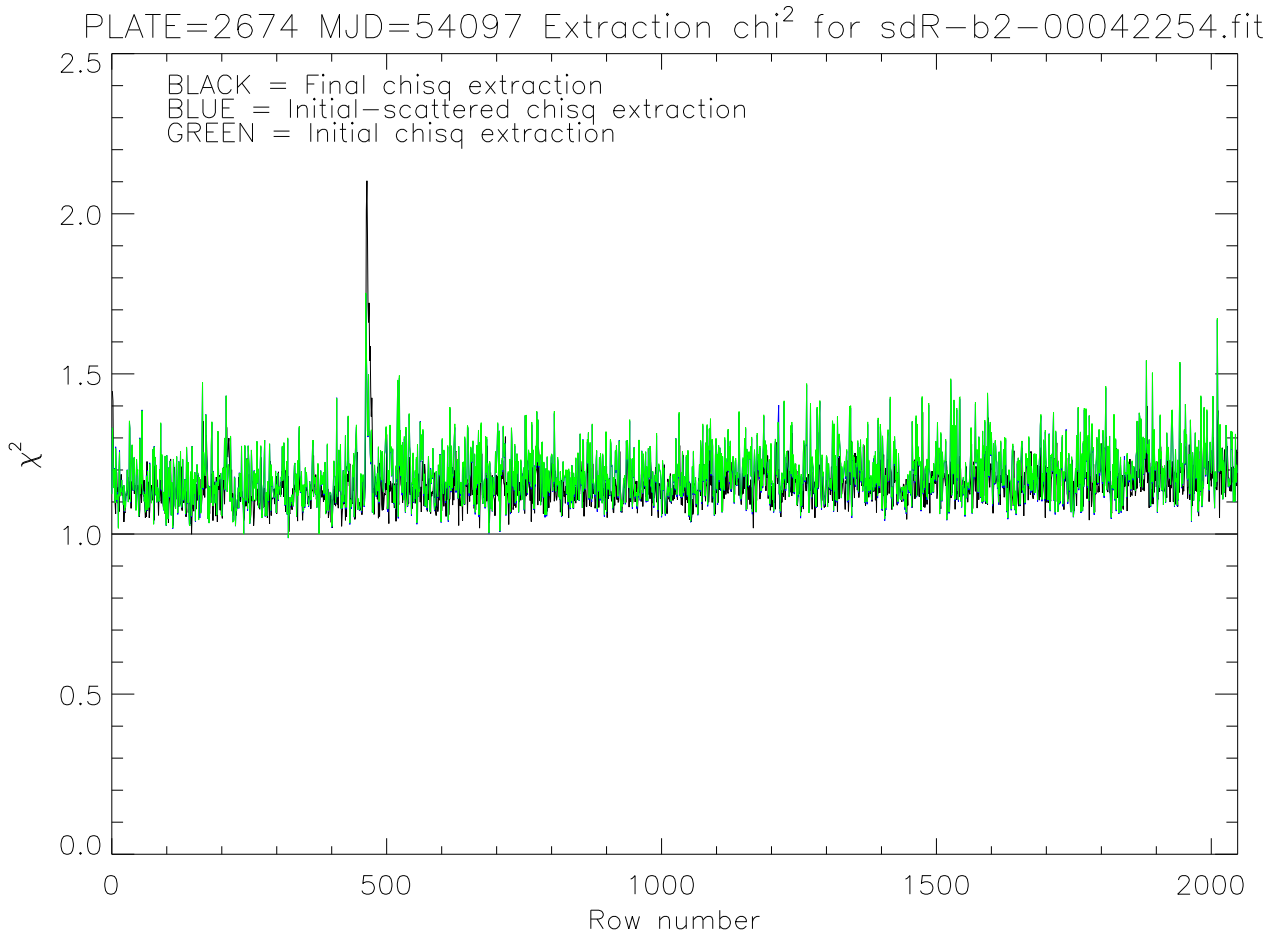

PLATE=2674 MJD=54097 Fiber-Flats for sdR-b2-00042256.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.318
Max value = 1.167
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sun Feb 10 16:29:41 2008

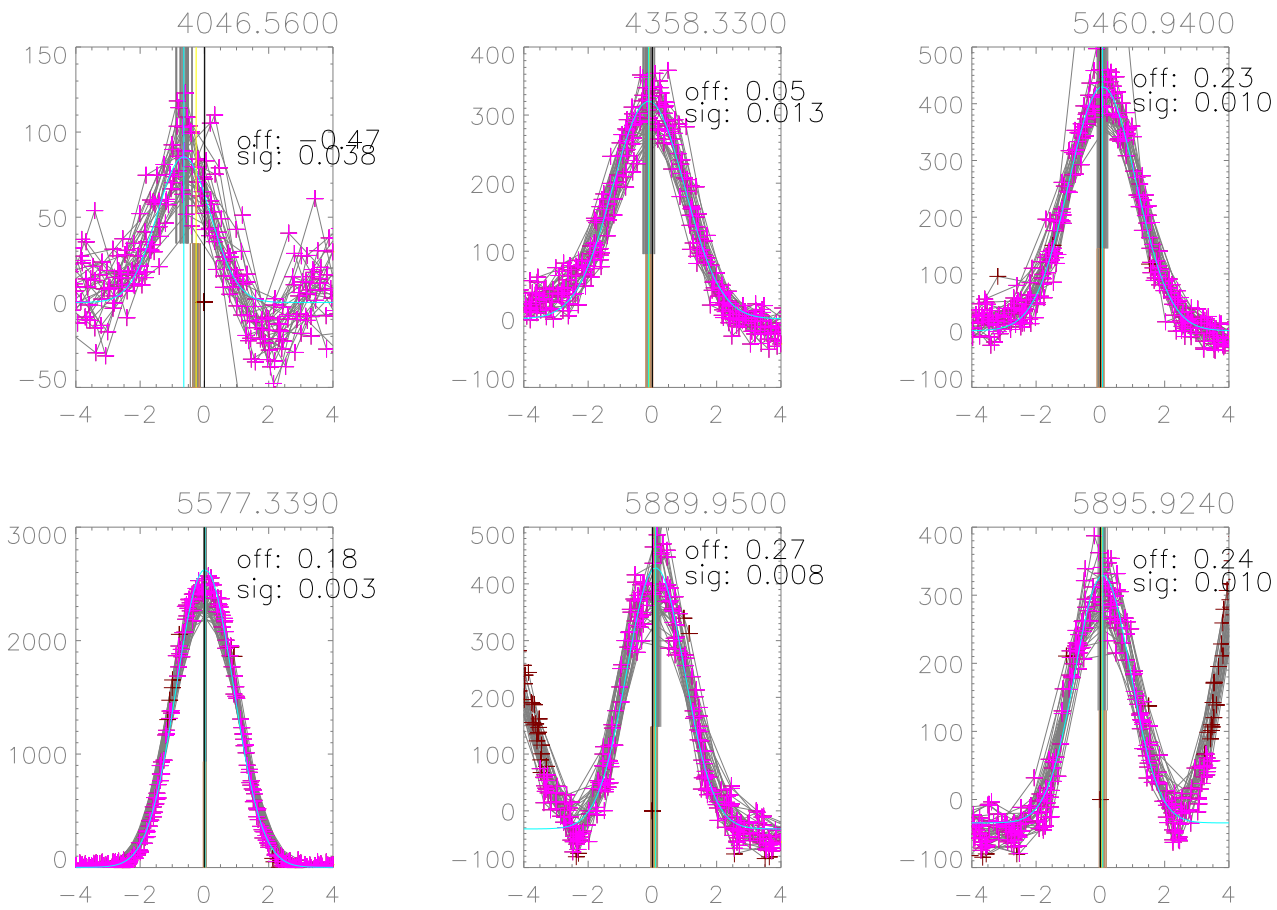

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR−b2−00042254.f
Y [pix]
X [pix]
0
500
1000
1500
2000
8.5
10.4

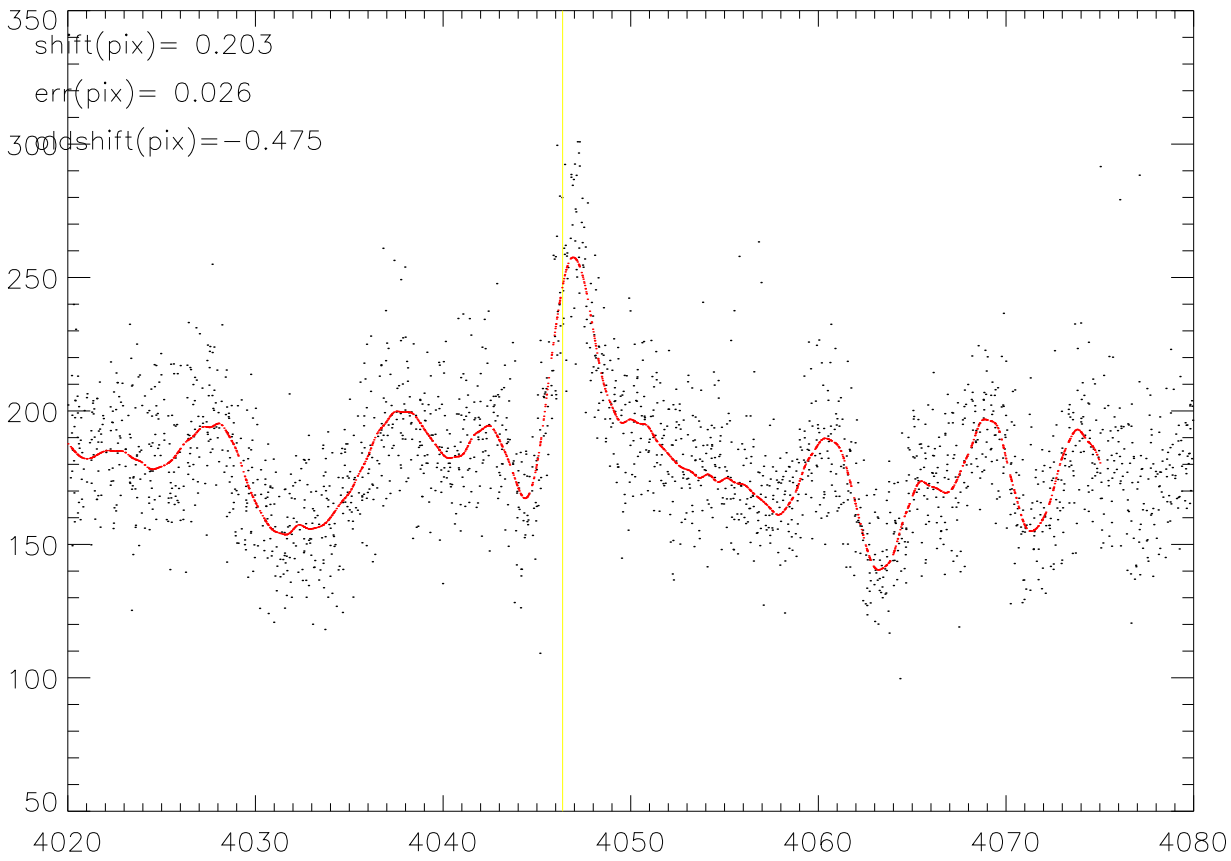

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR-b2-00042254.f
Brightness [electrons/pix]
15
10
5
0
Error bars denote full range
Min value = 6.950
Max value = 10.806
4000
4500
5000
5500
6000
λ [A]
Sun Feb 10 16:30:37 2008

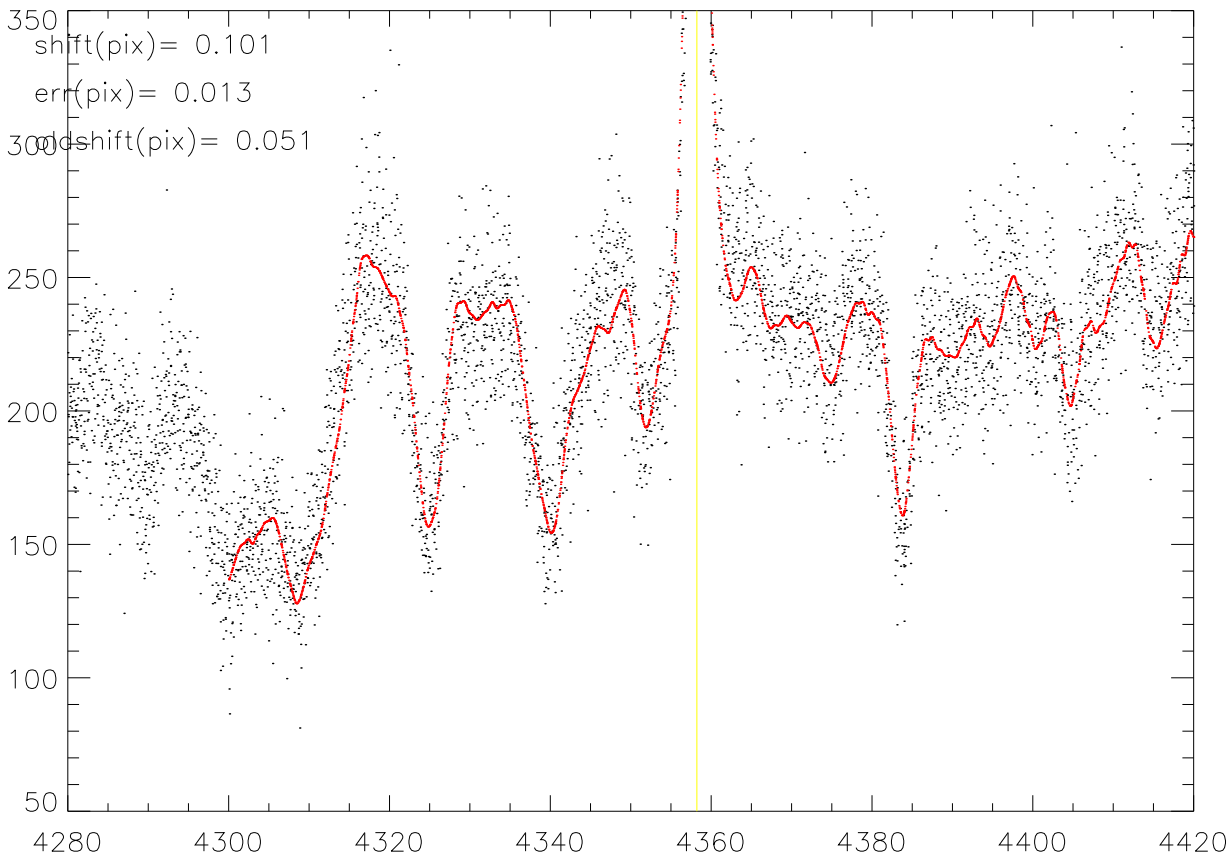

PLATE=2674 MJD=54097 Scattered Light on sdR-b2-00042254.fit
5.64
7.09
5.64
4.18
4.18
4.18
5.64
5.64
4.18
5.64
5.64
0
0
0
0
0
2000
1500
1000
500
0
0
500
1000
1500
2000
Y [pix]
X [pix]

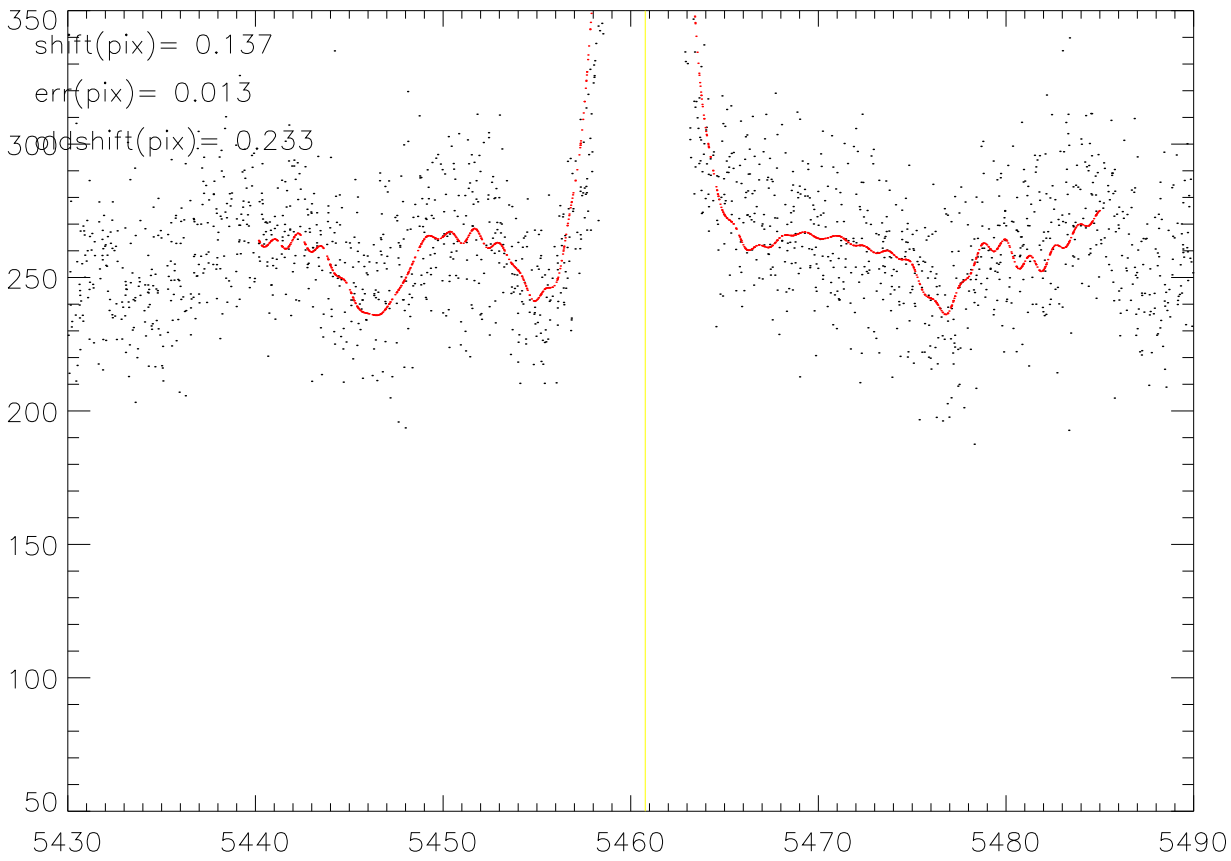

PLATE=2674 MJD=54097 Scattered Light on sdR-b2-00042254.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.671
Max value = 6.784
Sun Feb 10 16:34:06 2008

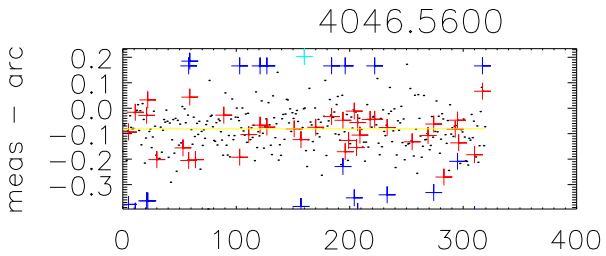

PLATE=2674 MJD=54097 Extraction chi^2 for sdR-b2-00042254.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

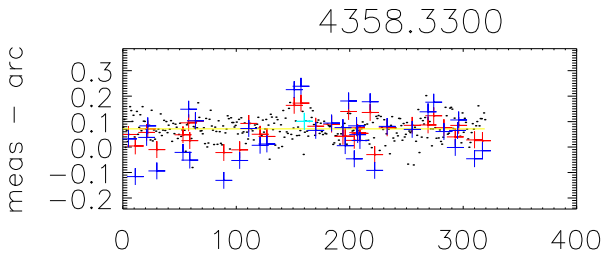

4046.5600
off: −0.47
sig: 0.038
4358.3300
off: 0.05
sig: 0.013
5460.9400
off: 0.23
sig: 0.010
5577.3390
off: 0.18
sig: 0.003
5889.9500
off: 0.27
sig: 0.008
5895.9240
off: 0.24
sig: 0.010

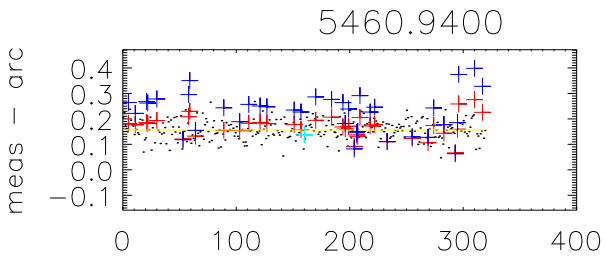

shift(pix)= 0.203
err(pix)= 0.026
oldshift(pix)=−0.475
350
300
250
200
150
100
50
4020
4030
4040
4050
4060
4070
4080

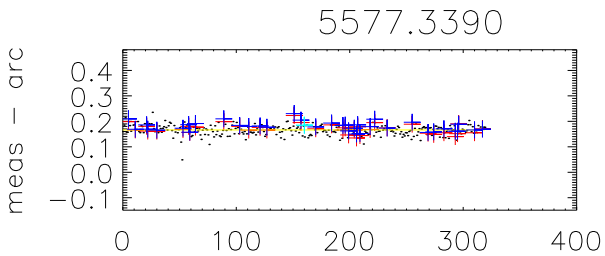

shift(pix)= 0.101
err(pix)= 0.013
oldshift(pix)= 0.051
350
300
250
200
150
100
50
4280
4300
4320
4340
4360
4380
4400
4420

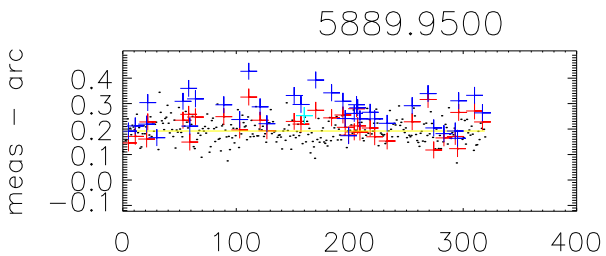

shift(pix)= 0.137
err(pix)= 0.013
oldshift(pix)= 0.233
350
300
250
200
150
100
50
5430
5440
5450
5460
5470
5480
5490

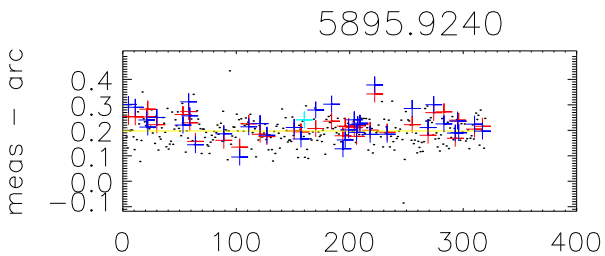

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

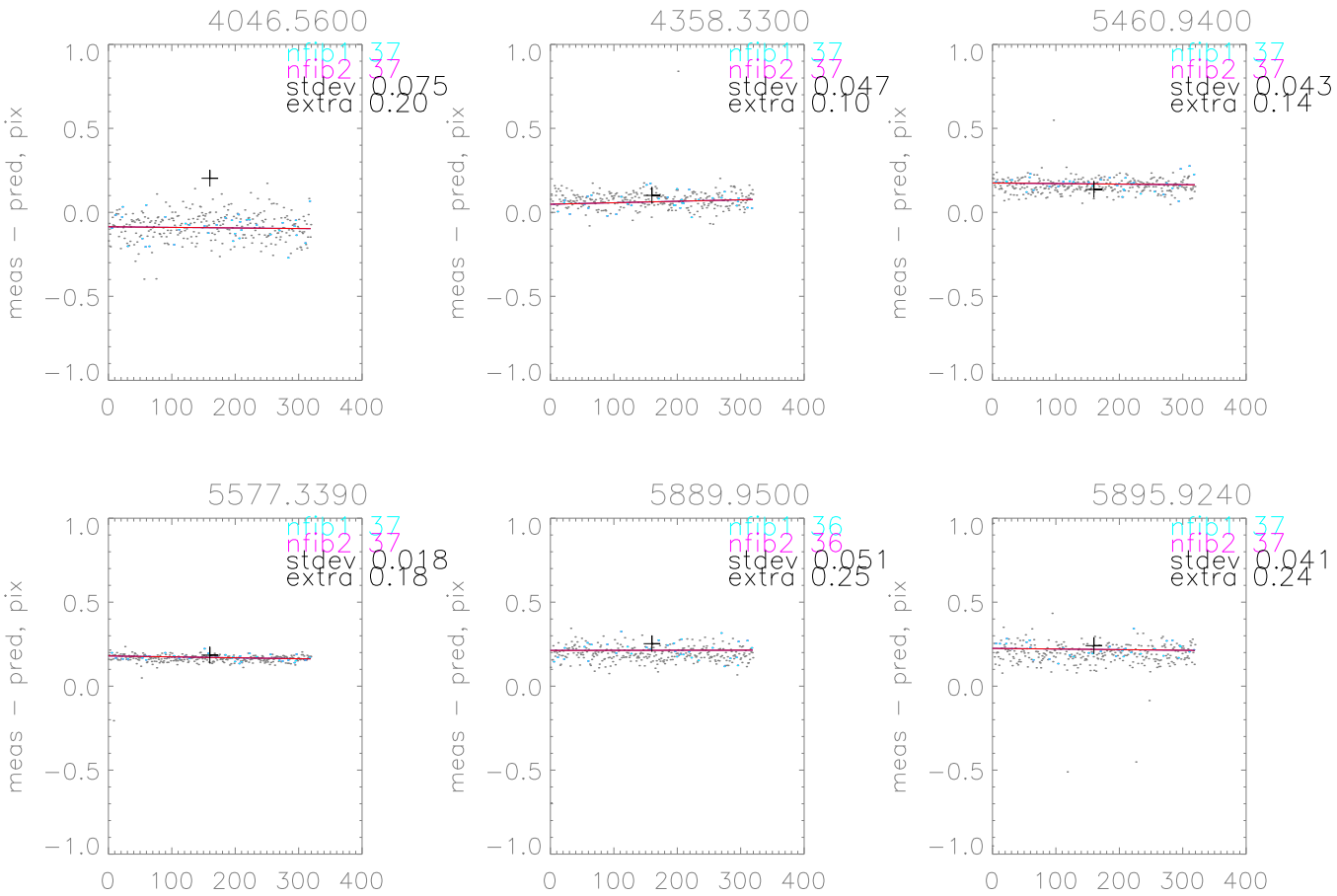

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

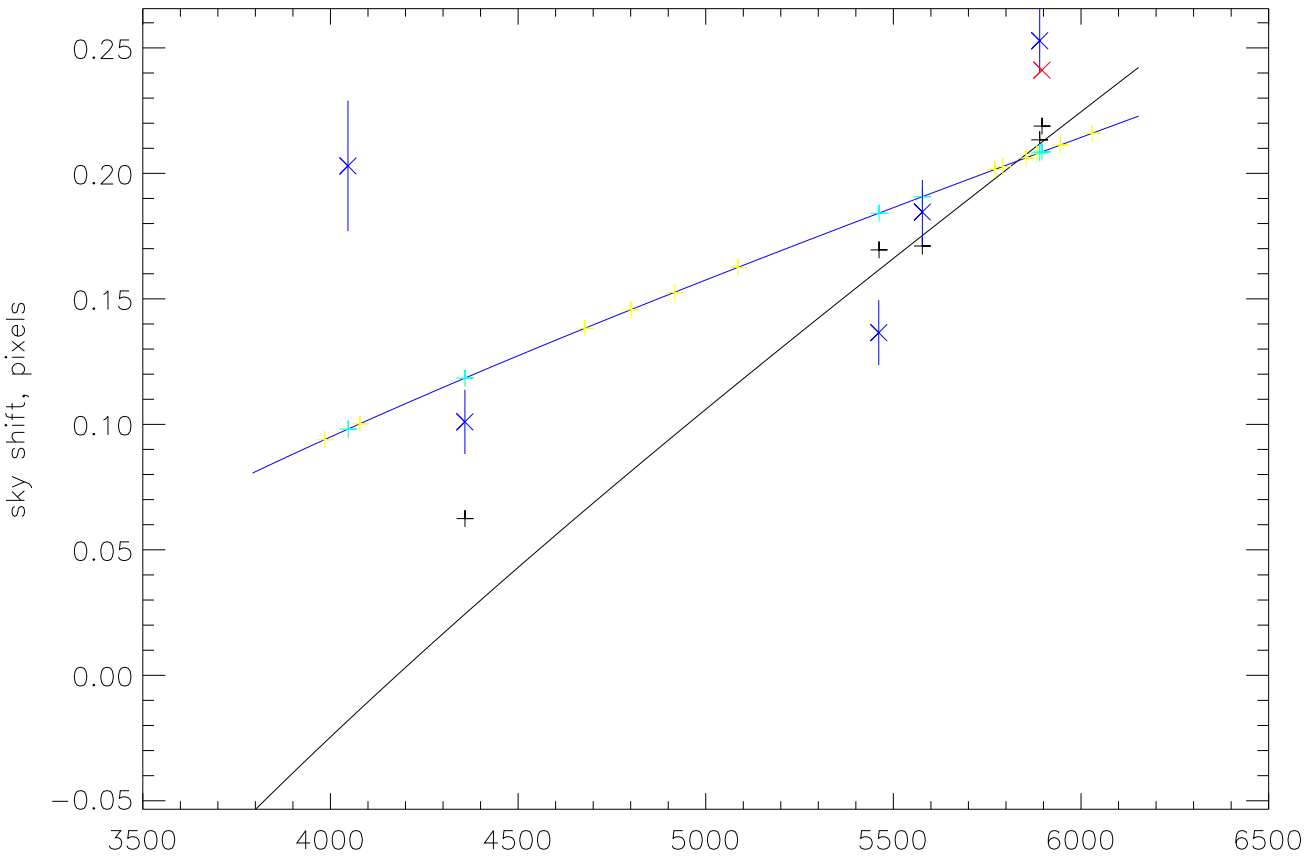

5460.9400
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

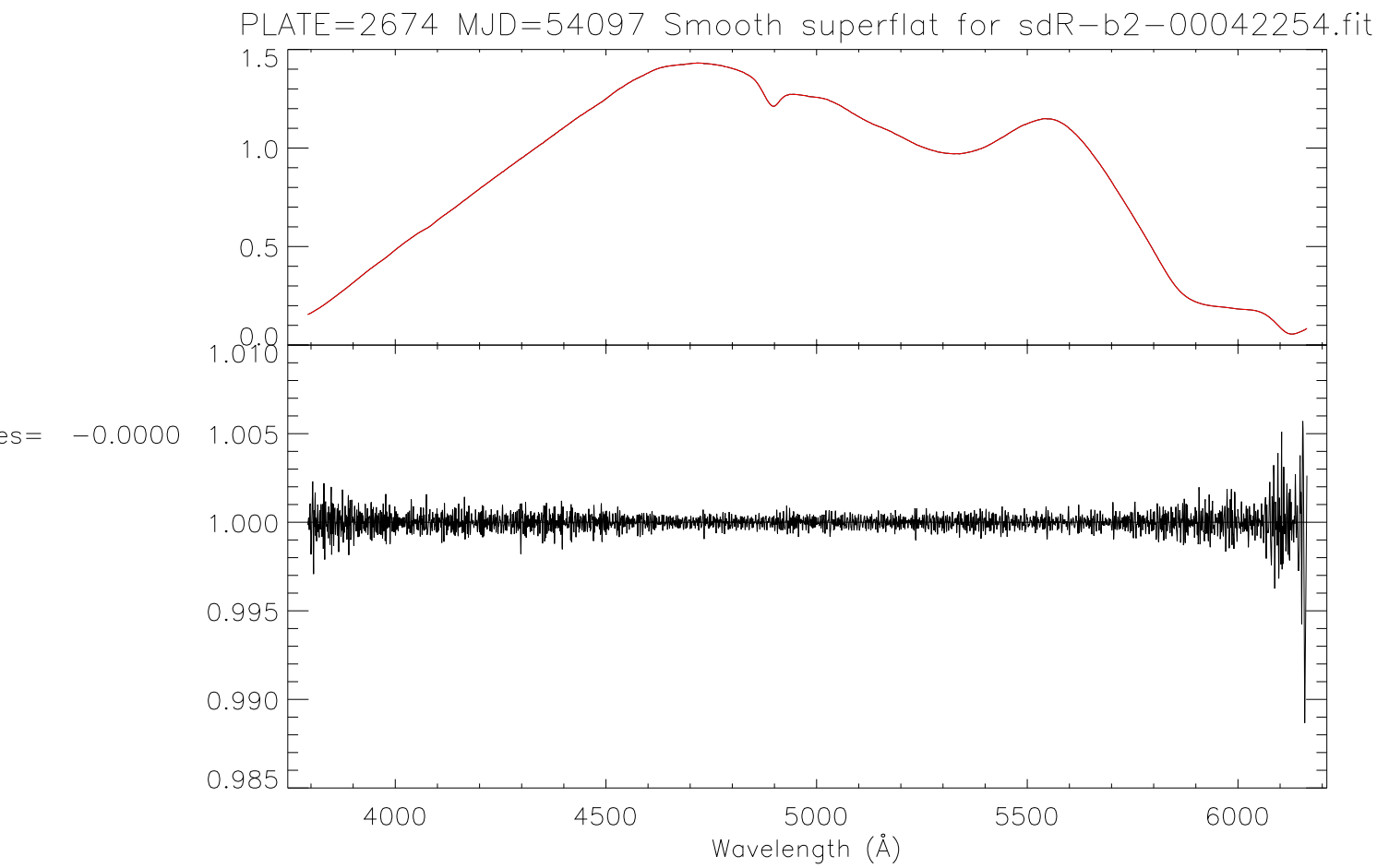

5577.3390
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

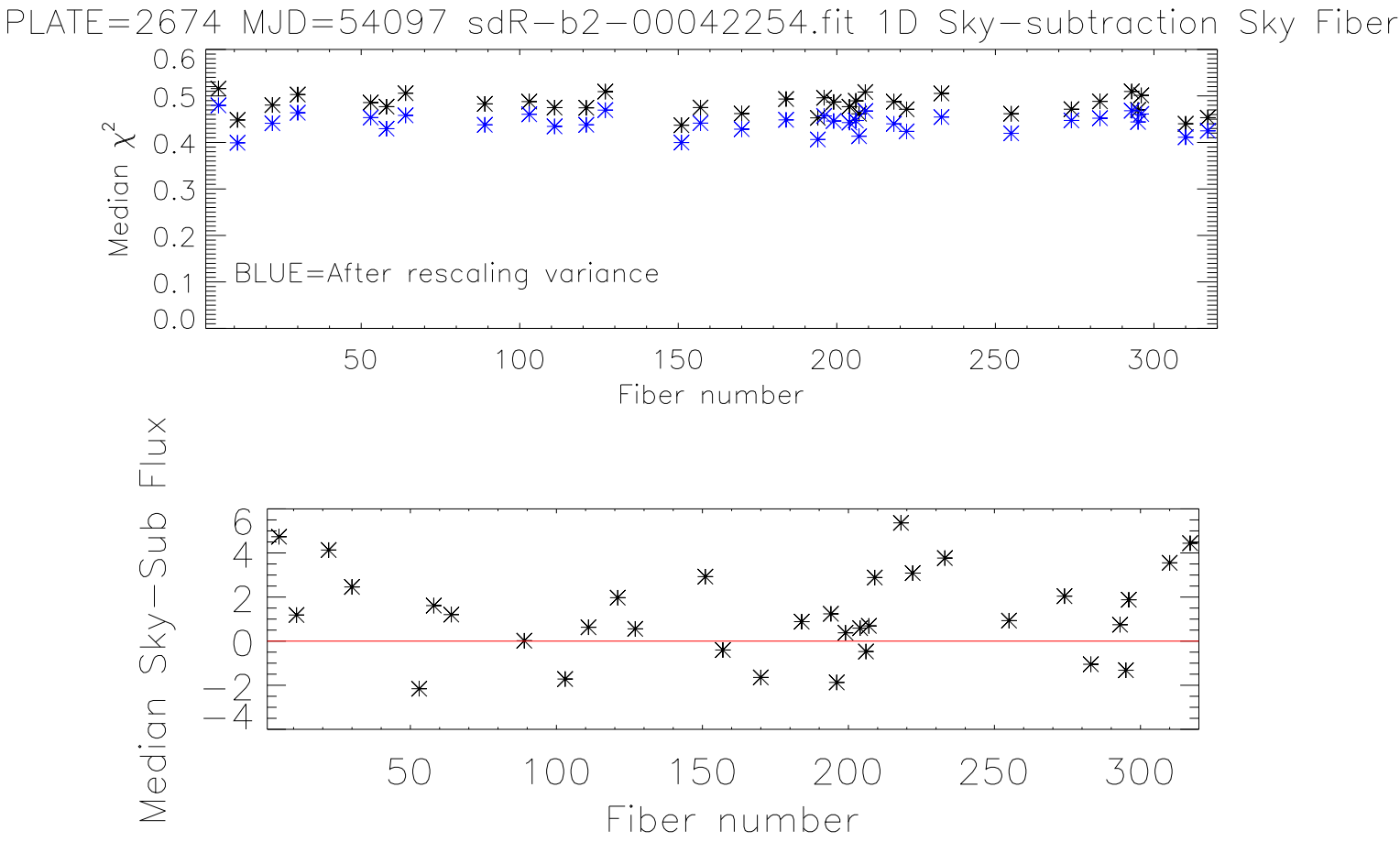

5889.9500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

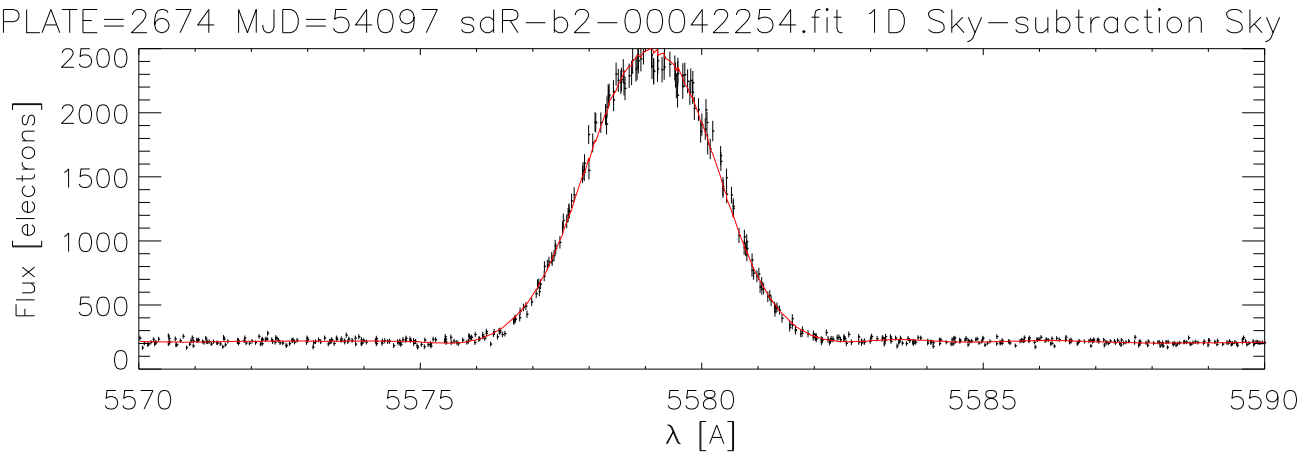

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

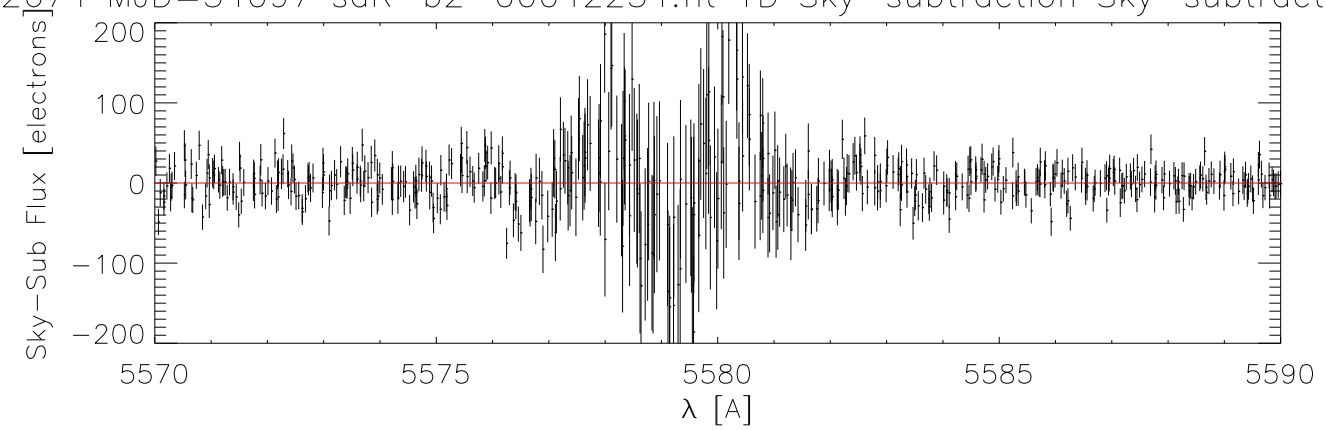

4046.5600
nfib1 37
nfib2 37
stdev 0.075
extra 0.20
4358.3300
nfib1 37
nfib2 37
stdev 0.047
extra 0.10
5460.9400
nfib1 37
nfib2 37
stdev 0.043
extra 0.14
5577.3390
nfib1 37
nfib2 37
stdev 0.018
extra 0.18
5889.9500
nfib1 36
nfib2 36
stdev 0.051
extra 0.25
5895.9240
nfib1 37
nfib2 37
stdev 0.041
extra 0.24
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

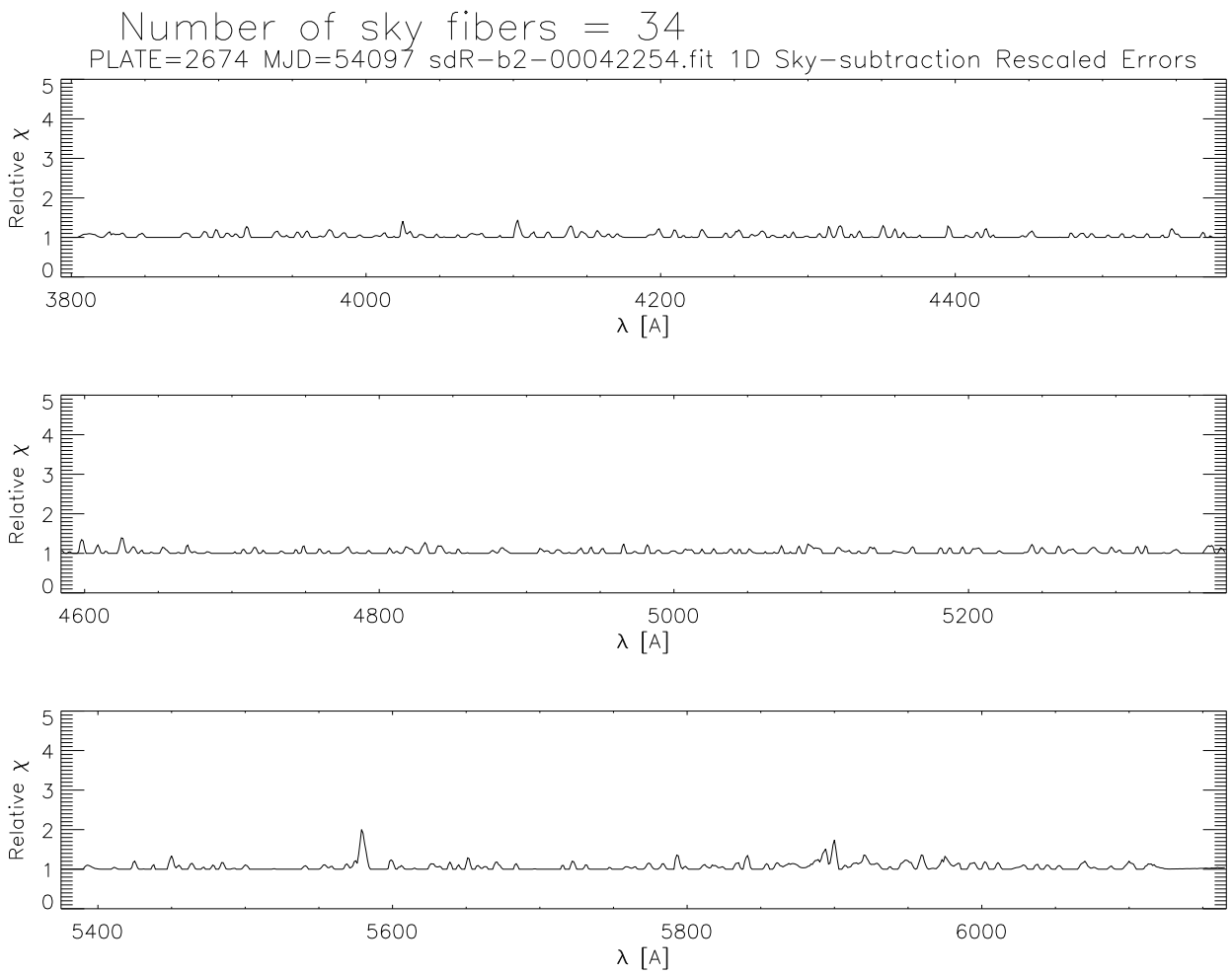

sky shift, pixels
0.25
0.20
0.15
0.10
0.05
0.00
−0.05
3500
4000
4500
5000
5500
6000
6500

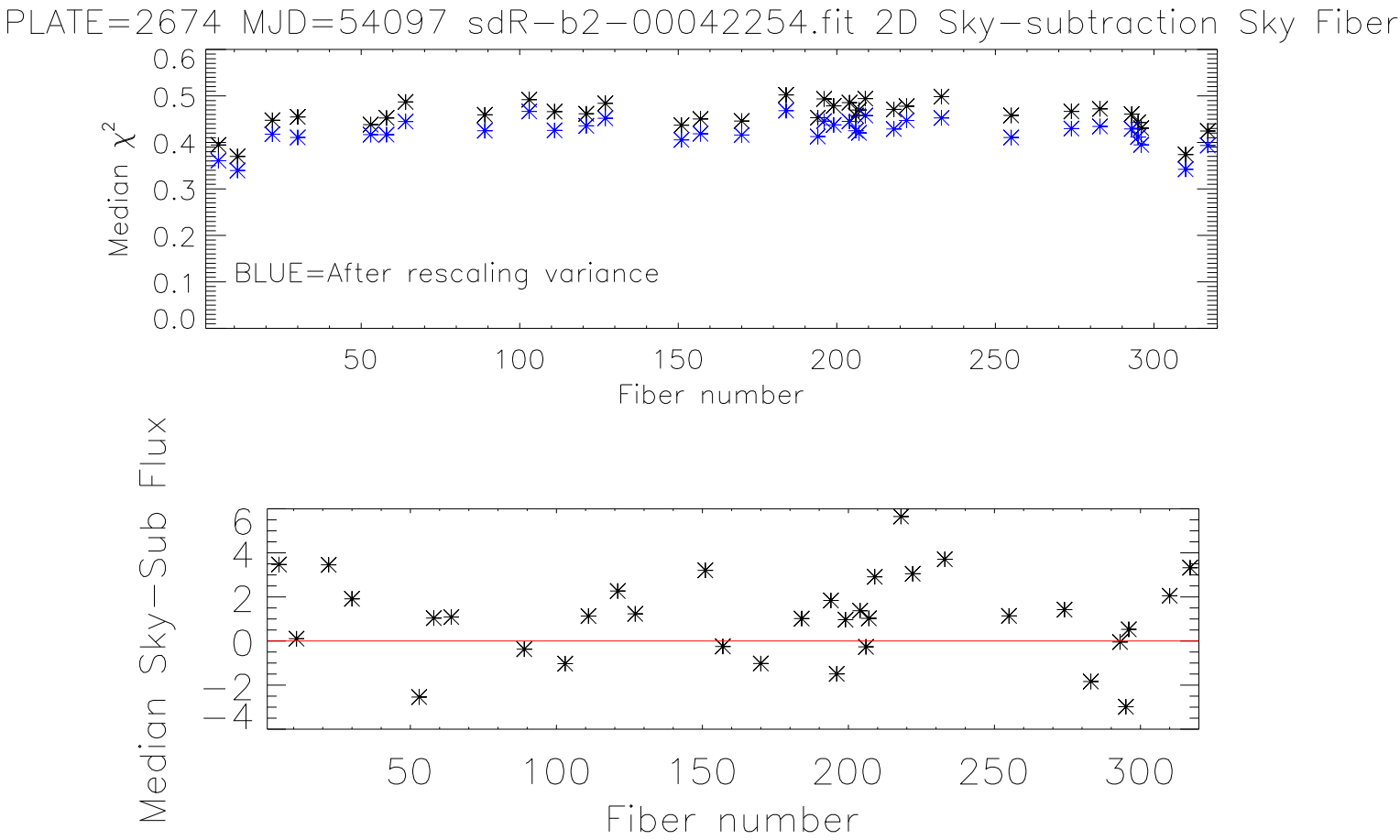

PLATE=2674 MJD=54097 Smooth superflat for sdR-b2-00042254.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

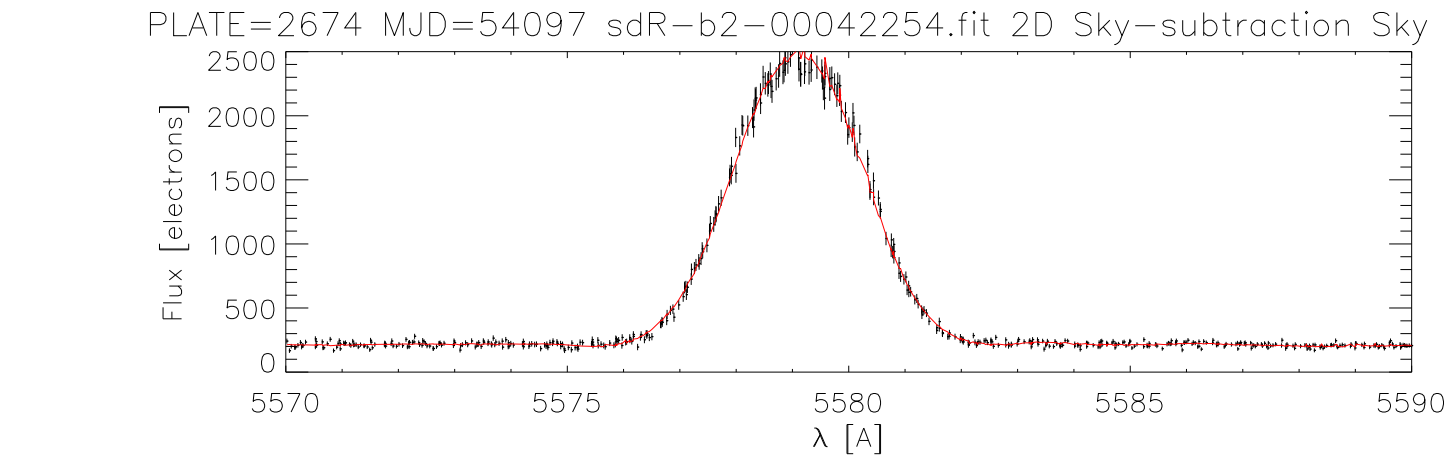

PLATE=2674 MJD=54097 sdR-b2-00042254.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

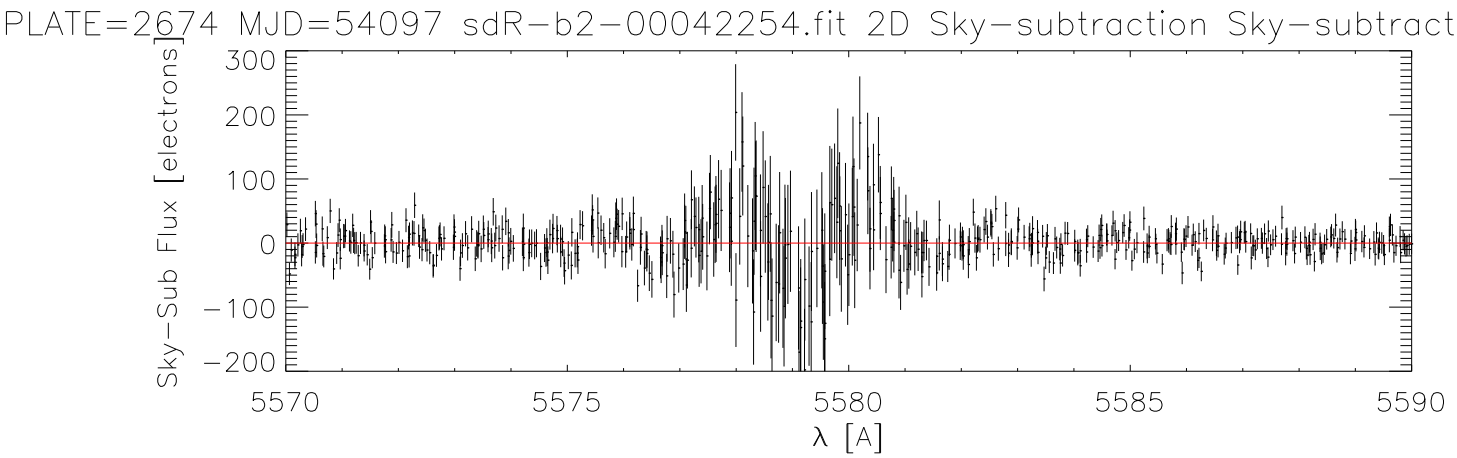

PLATE=2674 MJD=54097 sdR-b2-00042254.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

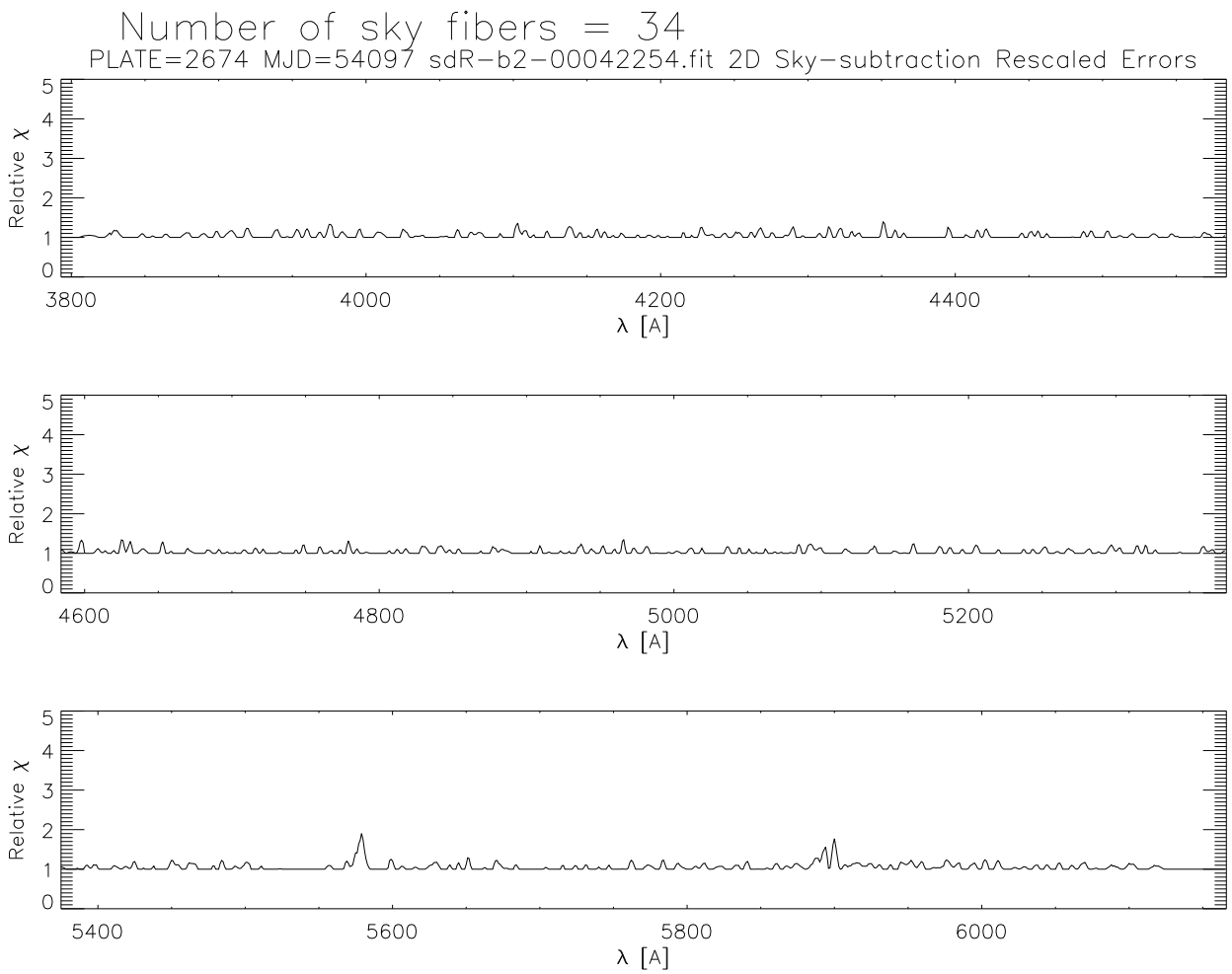

PLATE=2674 MJD=54097 sdR-b2-00042254.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

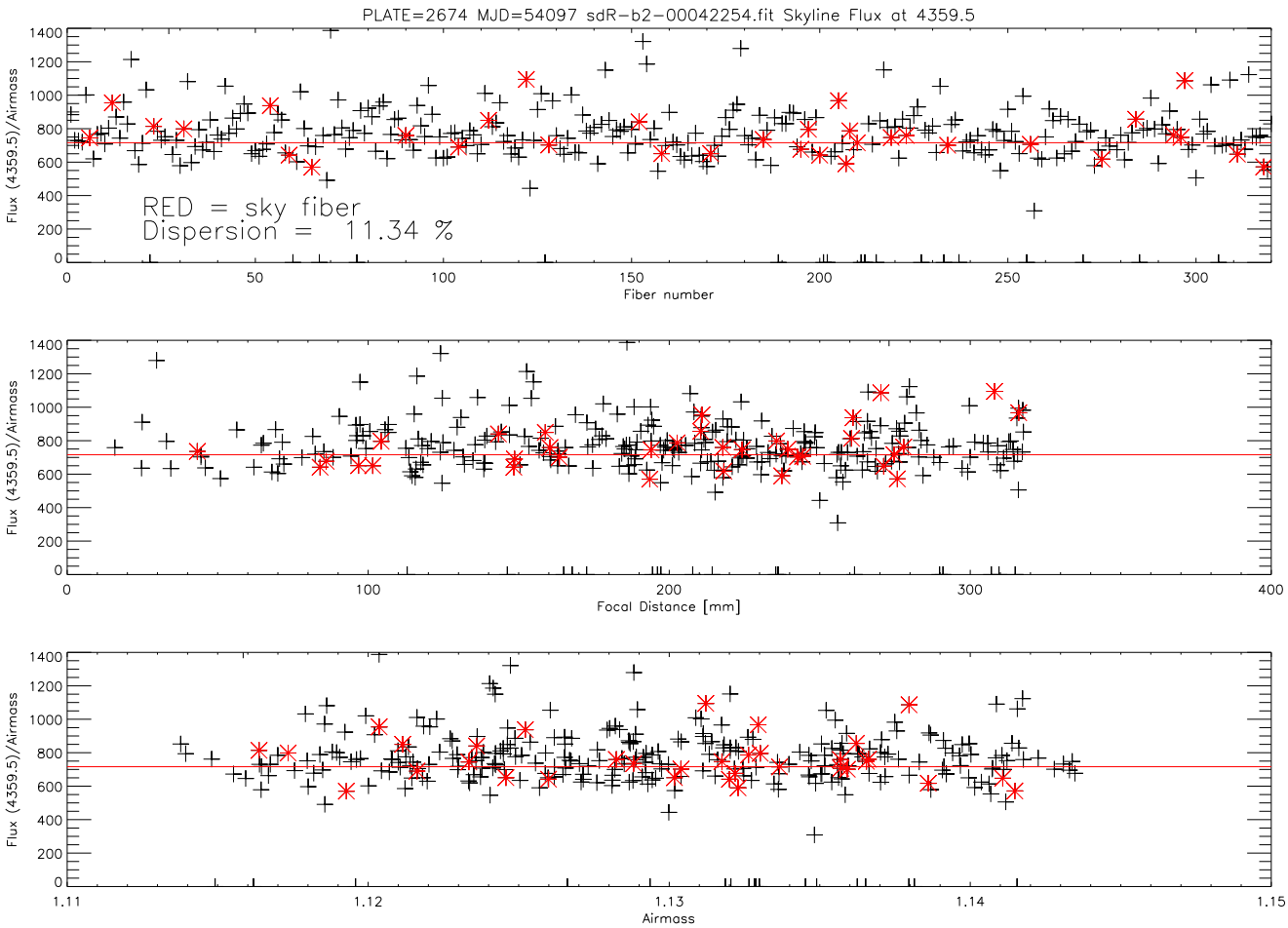

Number of sky fibers = 34
PLATE=2674 MJD=54097 sdR-b2-00042254.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

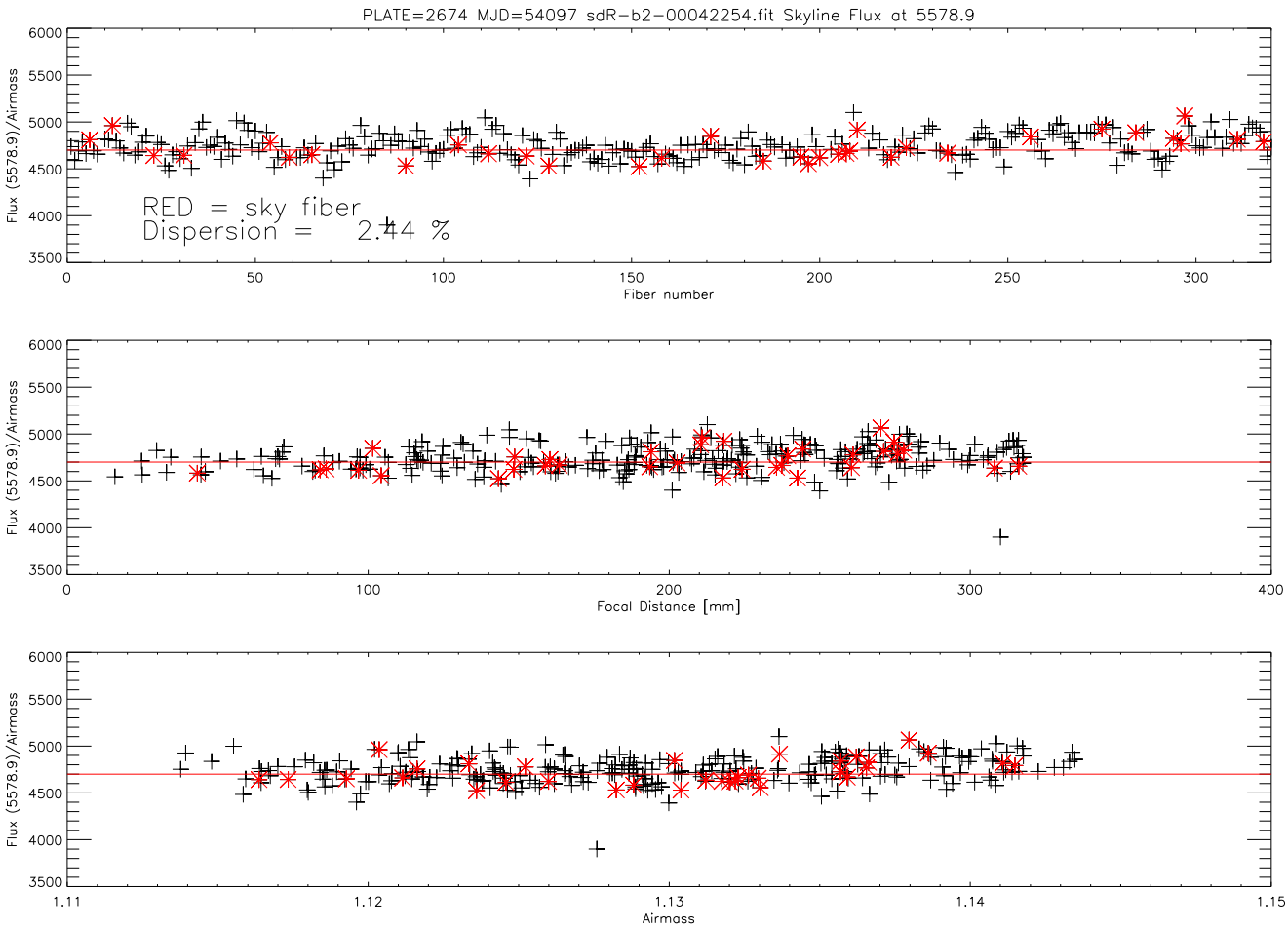

PLATE=2674 MJD=54097 sdR-b2-00042254.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

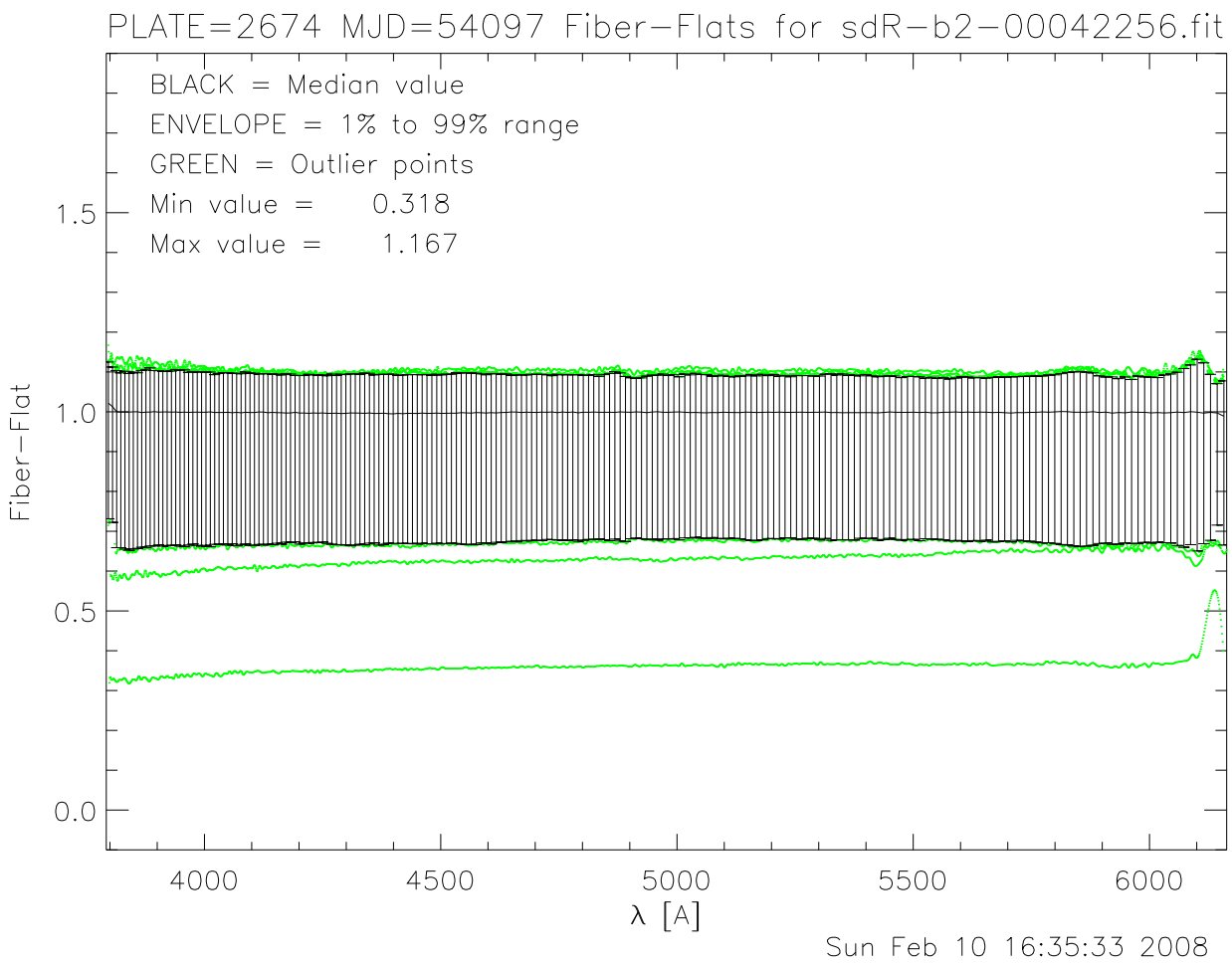

PLATE=2674 MJD=54097 sdR-b2-00042254.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

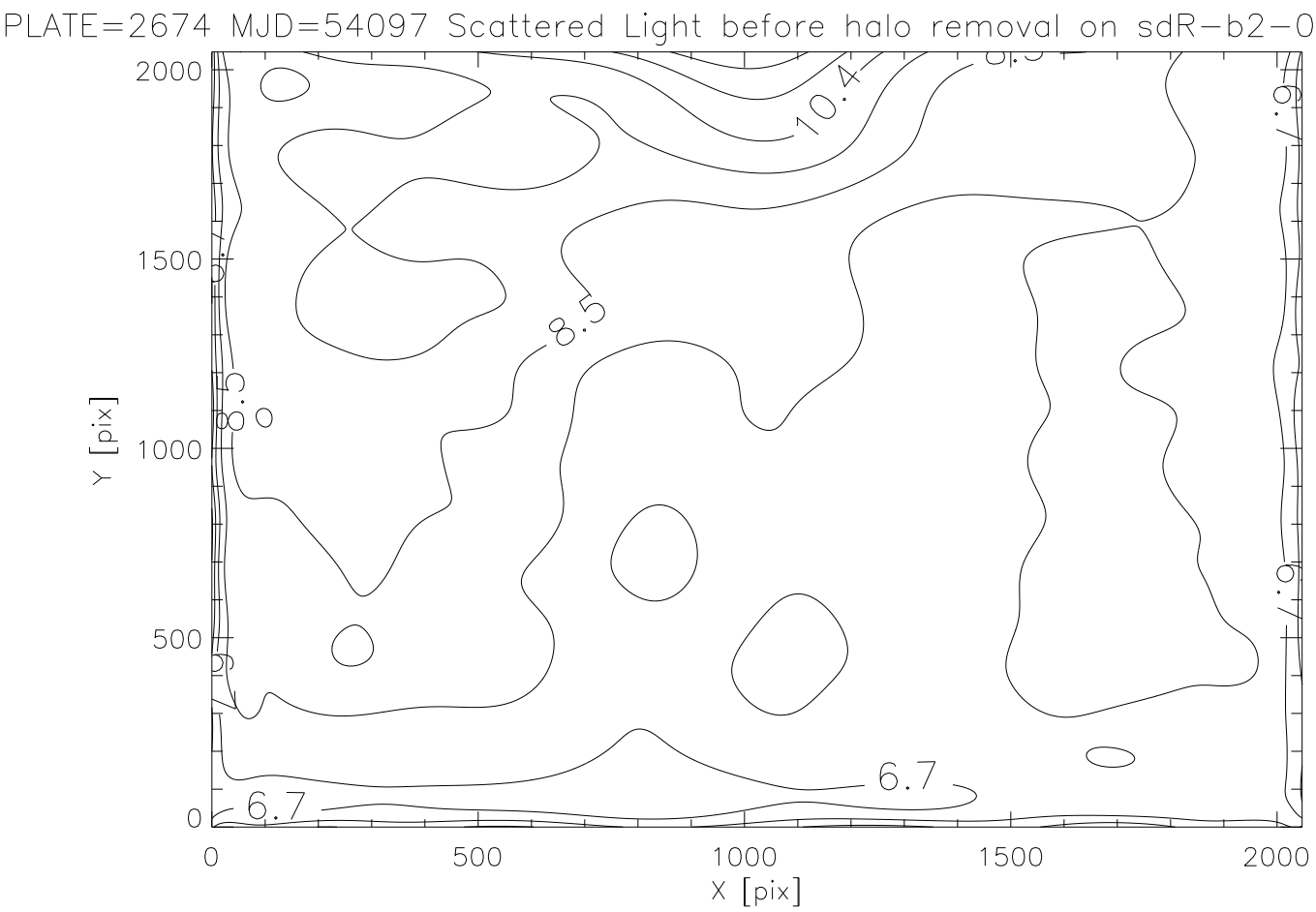

PLATE=2674 MJD=54097 sdR-b2-00042254.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

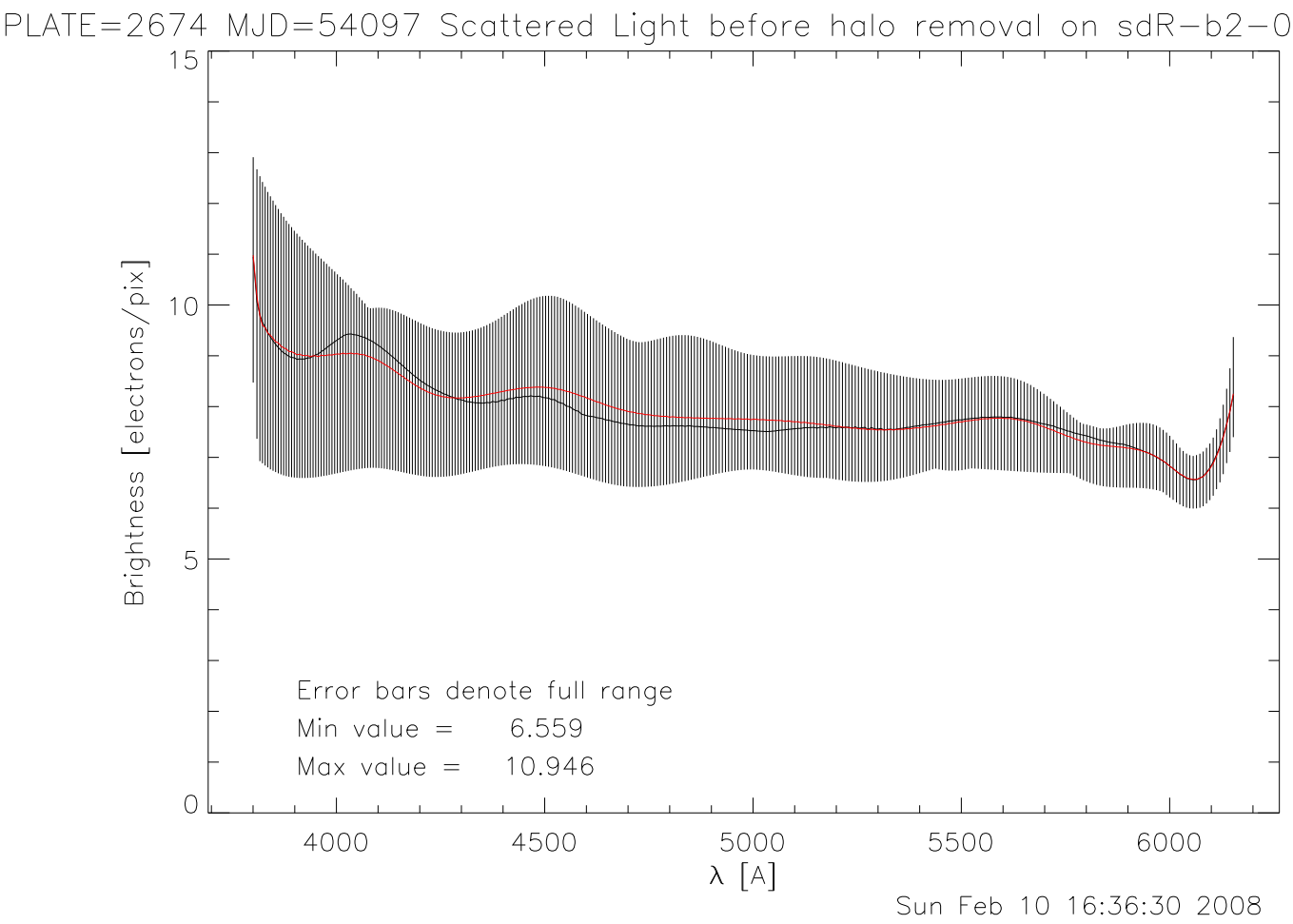

Number of sky fibers = 34
PLATE=2674 MJD=54097 sdR-b2-00042254.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

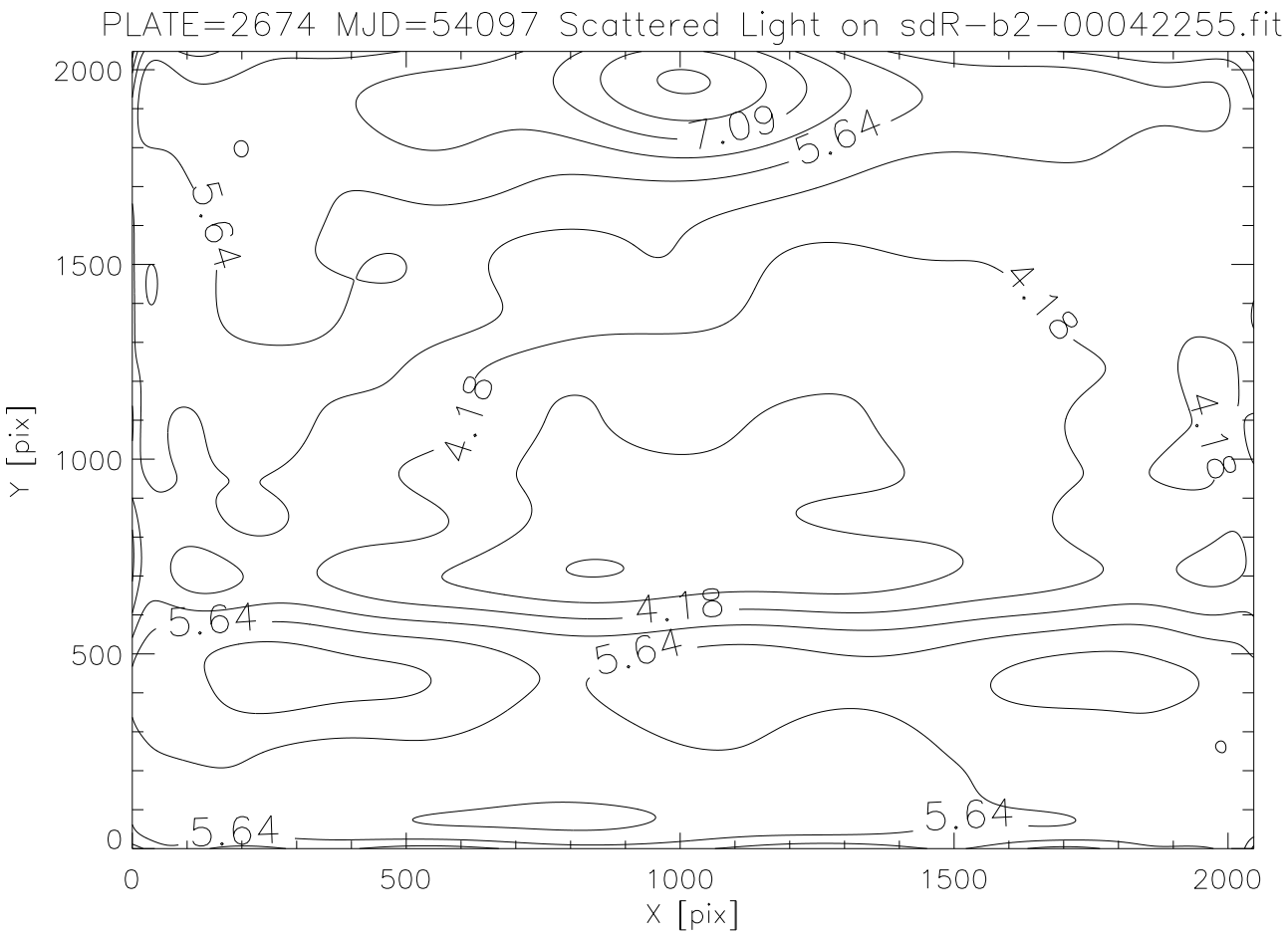

PLATE=2674 MJD=54097 sdR-b2-00042254.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 11.34 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

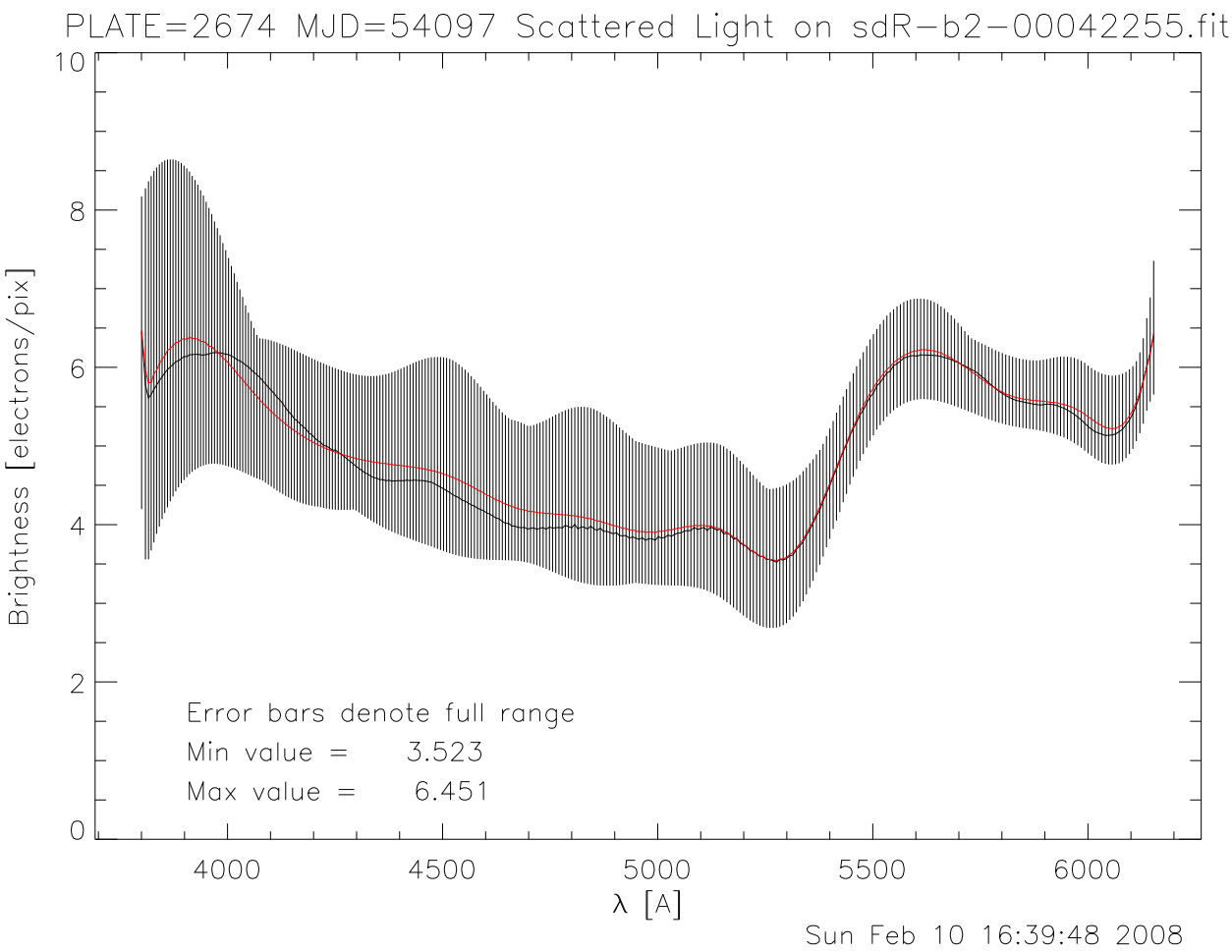

PLATE=2674 MJD=54097 sdR-b2-00042254.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.44 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

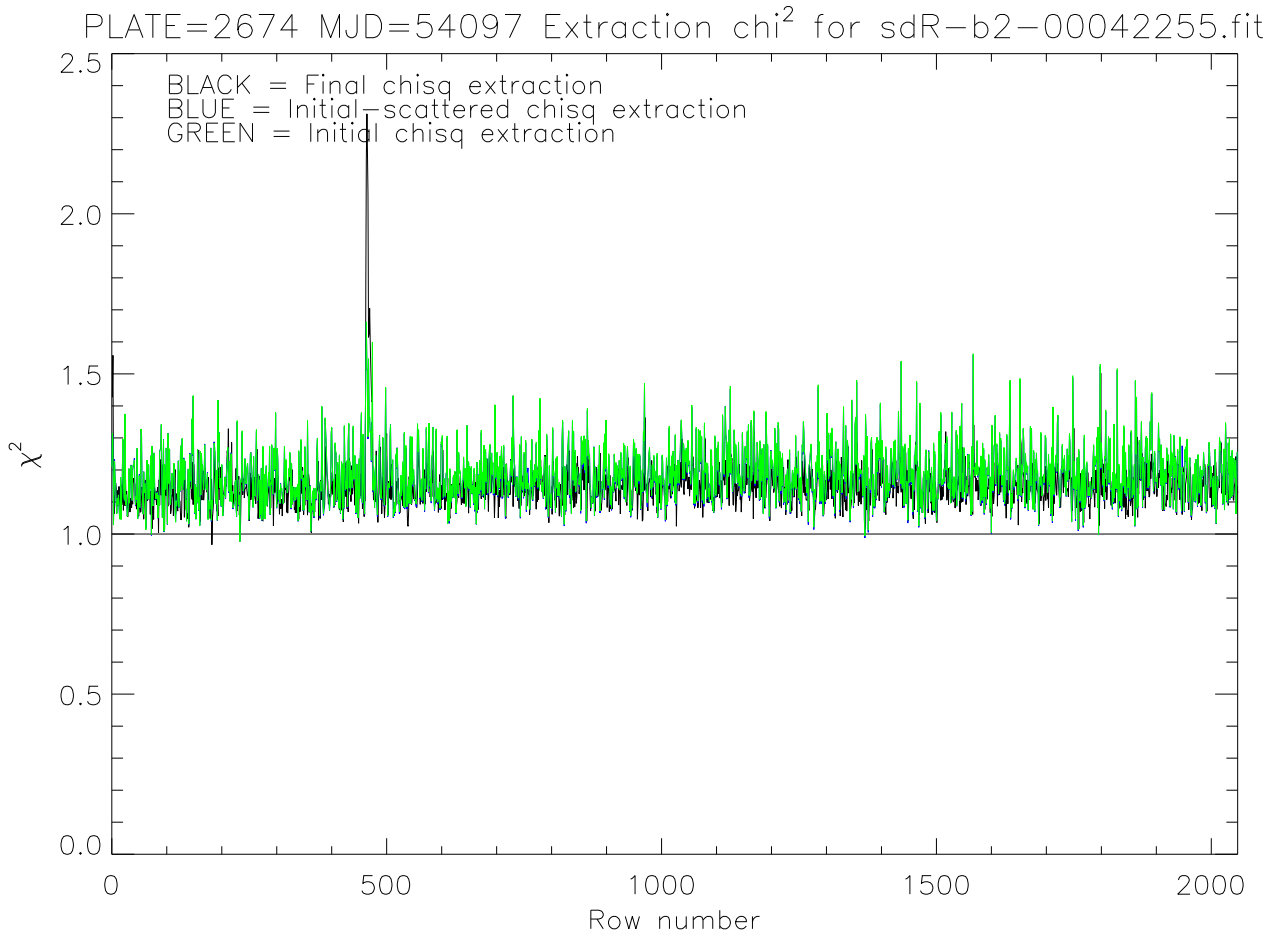

PLATE=2674 MJD=54097 Fiber-Flats for sdR-b2-00042256.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.318
Max value = 1.167
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sun Feb 10 16:35:33 2008

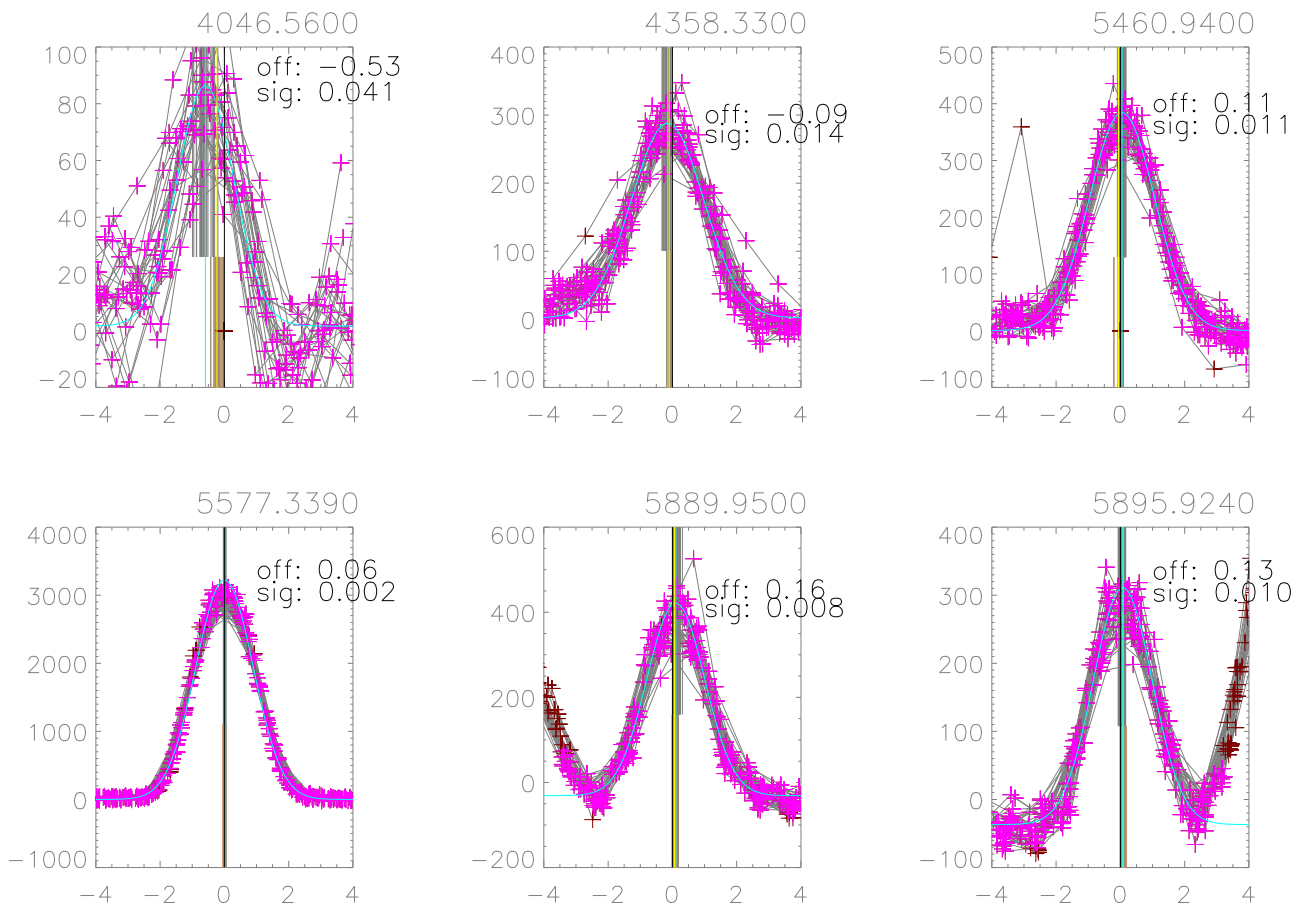

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR-b2-00042255.f
10.4
8.5
6.7
6.7
Y [pix]
X [pix]
0
500
1000
1500
2000

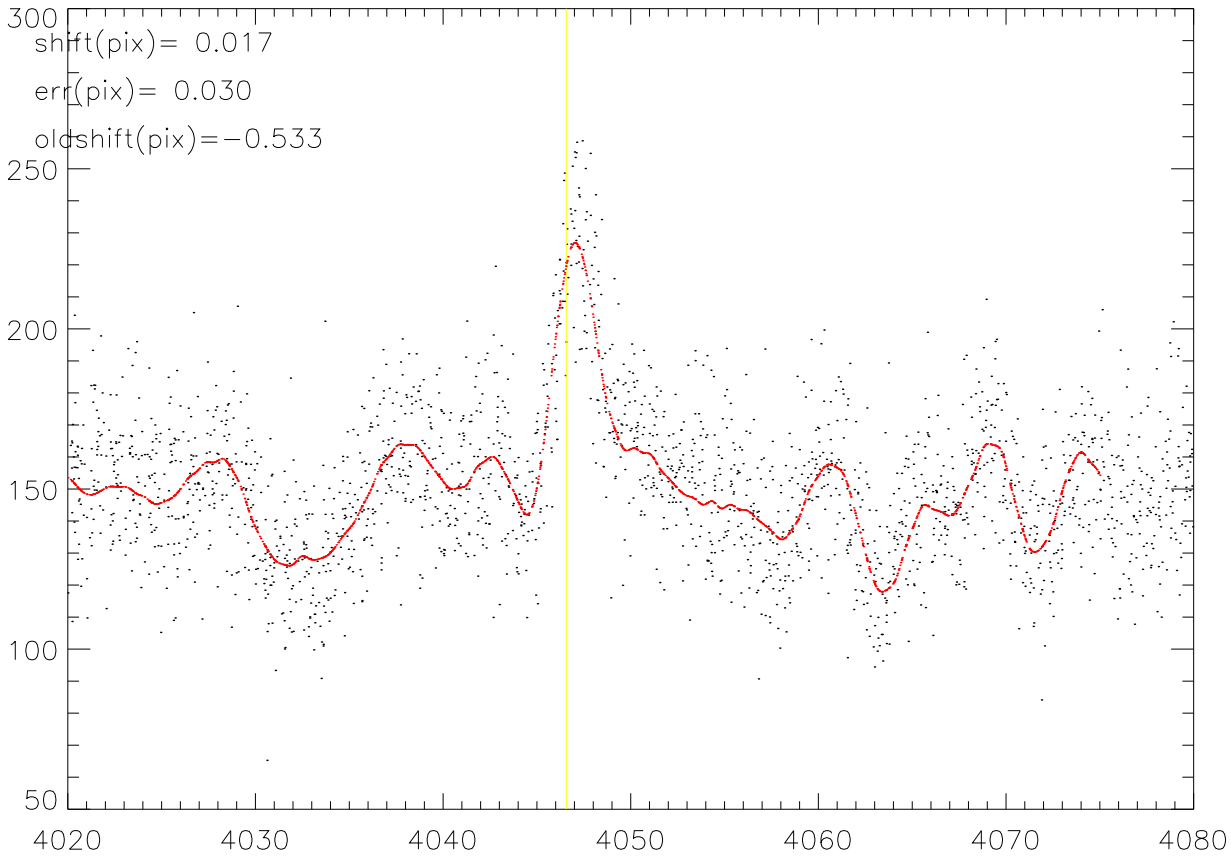

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR-b2-00042255.f
Brightness [electrons/pix]
15
10
5
0
Error bars denote full range
Min value = 6.559
Max value = 10.946
4000
4500
5000
5500
6000
λ [A]
Sun Feb 10 16:36:30 2008

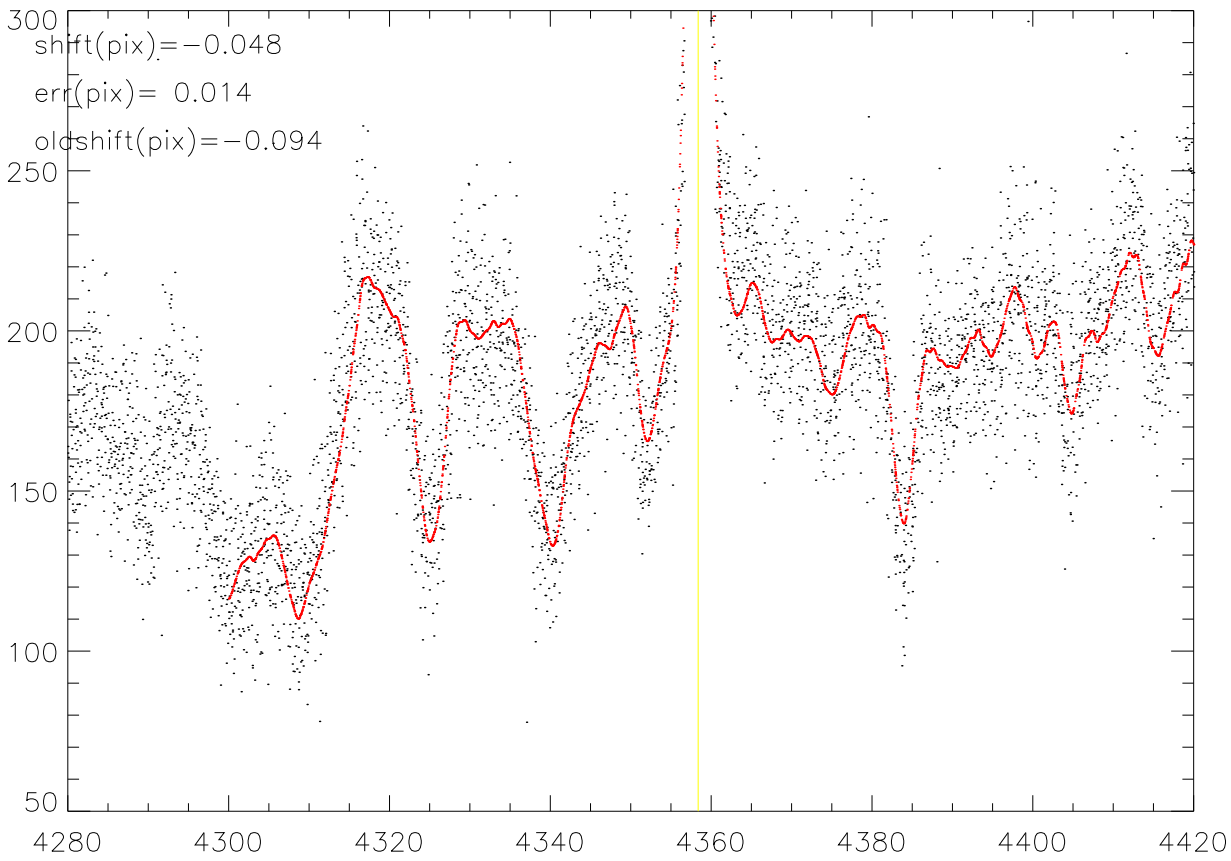

PLATE=2674 MJD=54097 Scattered Light on sdR-b2-00042255.fit
7.09
5.64
5.64
4.18
4.18
4.18
5.64
4.18
5.64
5.64
5.64
Y [pix]
X [pix]
0
500
1000
1500
2000

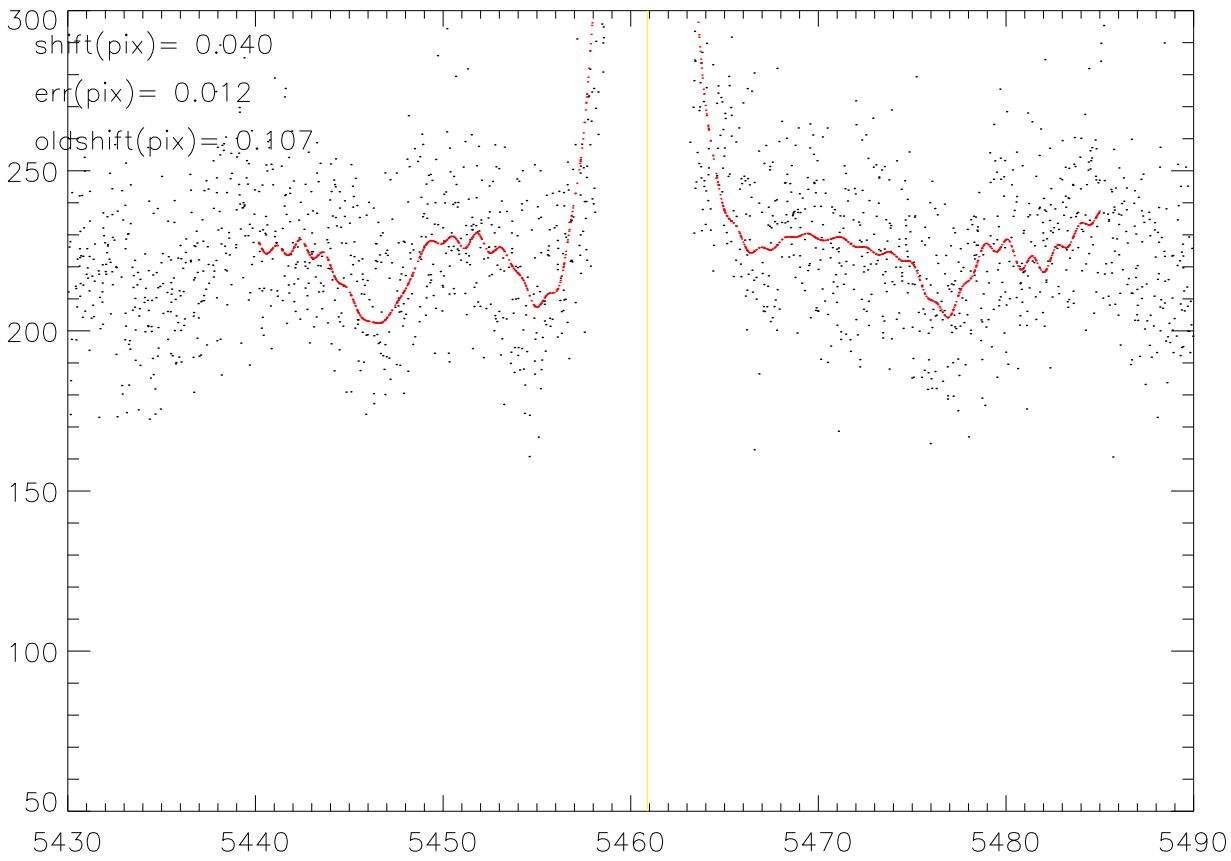

PLATE=2674 MJD=54097 Scattered Light on sdR-b2-00042255.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.523
Max value = 6.451
Sun Feb 10 16:39:48 2008

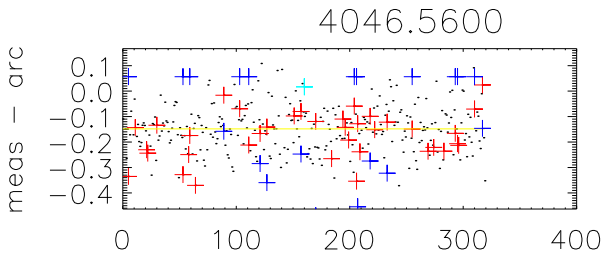

PLATE=2674 MJD=54097 Extraction chi^2 for sdR-b2-00042255.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

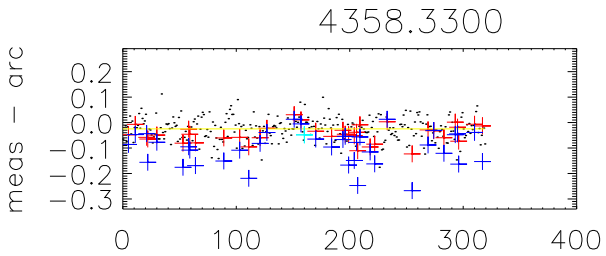

4046.5600
off: −0.53
sig: 0.041
4358.3300
off: −0.09
sig: 0.014
5460.9400
off: 0.11
sig: 0.011
5577.3390
off: 0.06
sig: 0.002
5889.9500
off: 0.16
sig: 0.008
5895.9240
off: 0.13
sig: 0.010

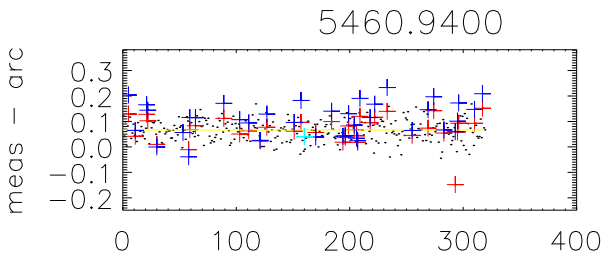

shift(pix)= 0.017
err(pix)= 0.030
oldshift(pix)=−0.533
300
250
200
150
100
50
4020
4030
4040
4050
4060
4070
4080

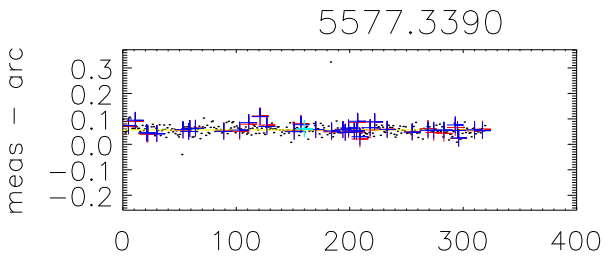

shift(pix)=−0.048
err(pix)= 0.014
oldshift(pix)=−0.094
300
250
200
150
100
50
4280
4300
4320
4340
4360
4380
4400
4420

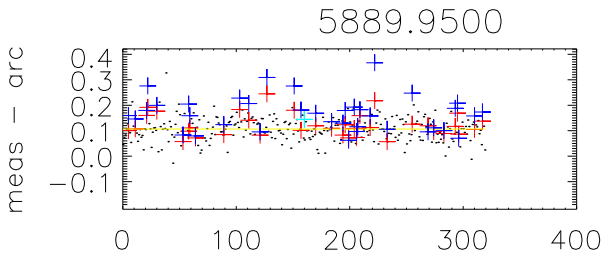

shift(pix)= 0.040
err(pix)= 0.012
oldshift(pix)= 0.107
300
250
200
150
100
50
5430
5440
5450
5460
5470
5480
5490

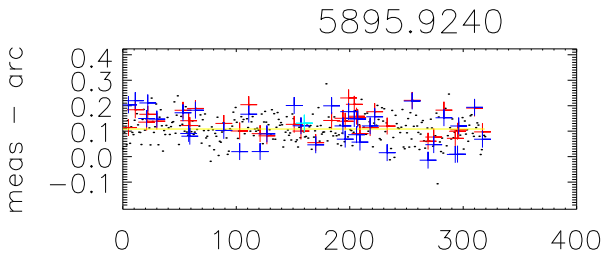

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

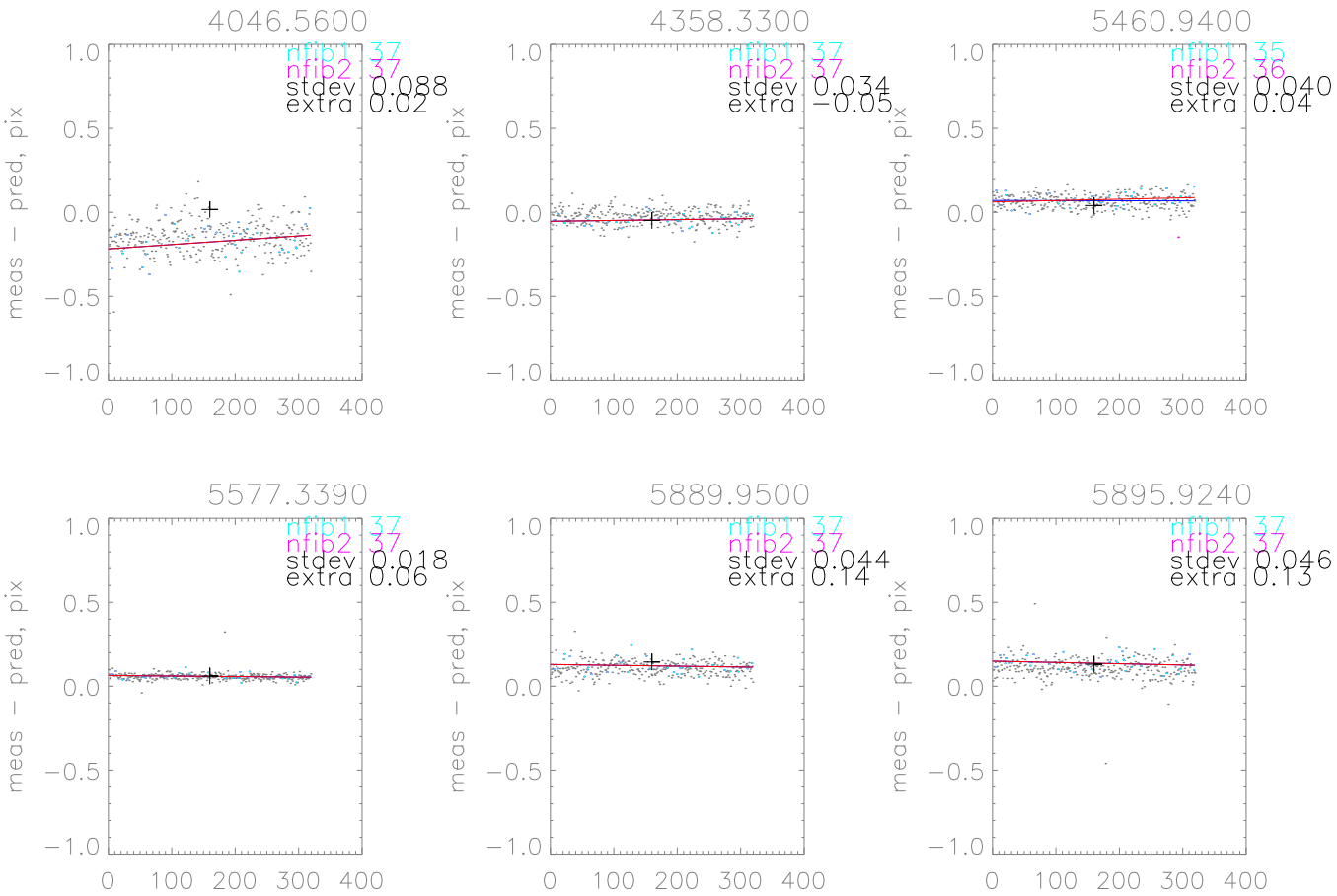

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

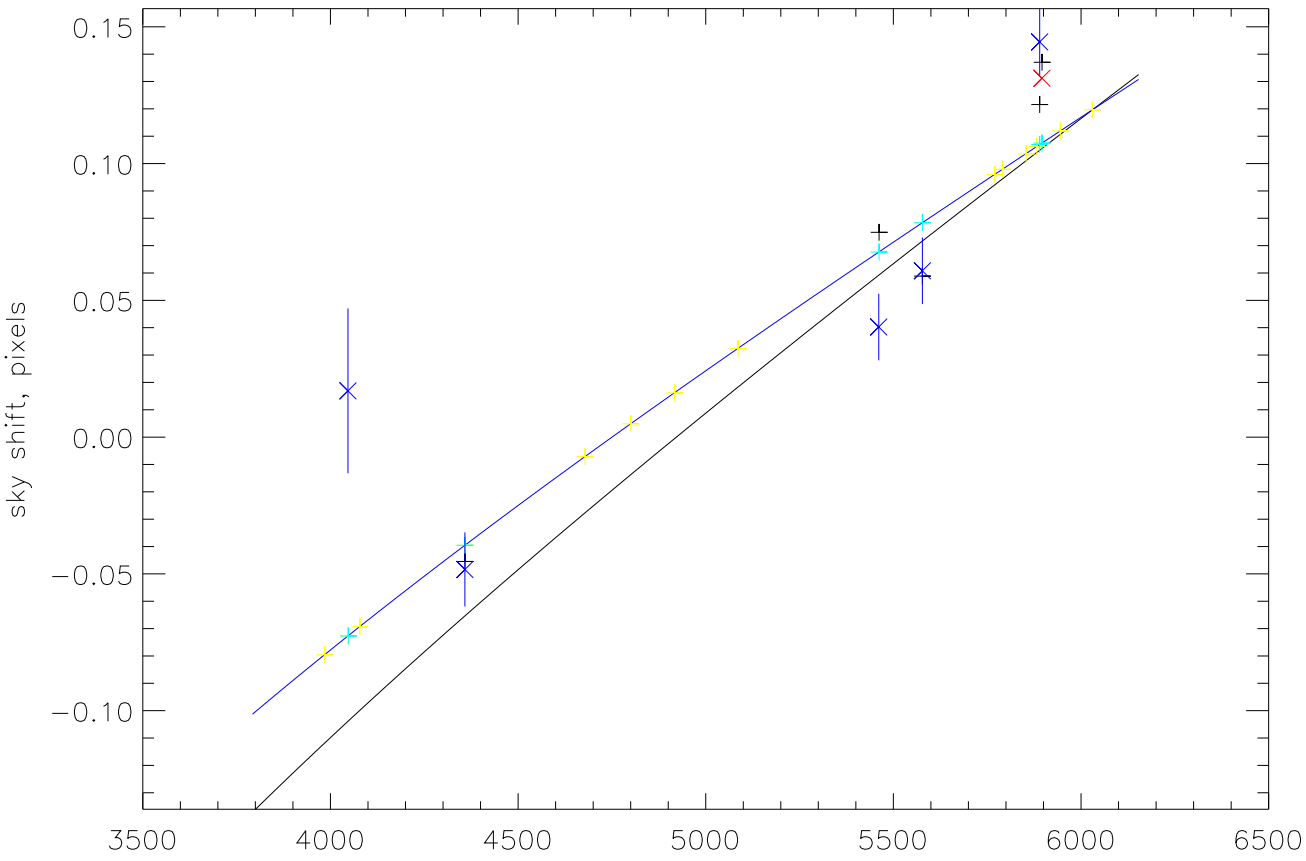

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

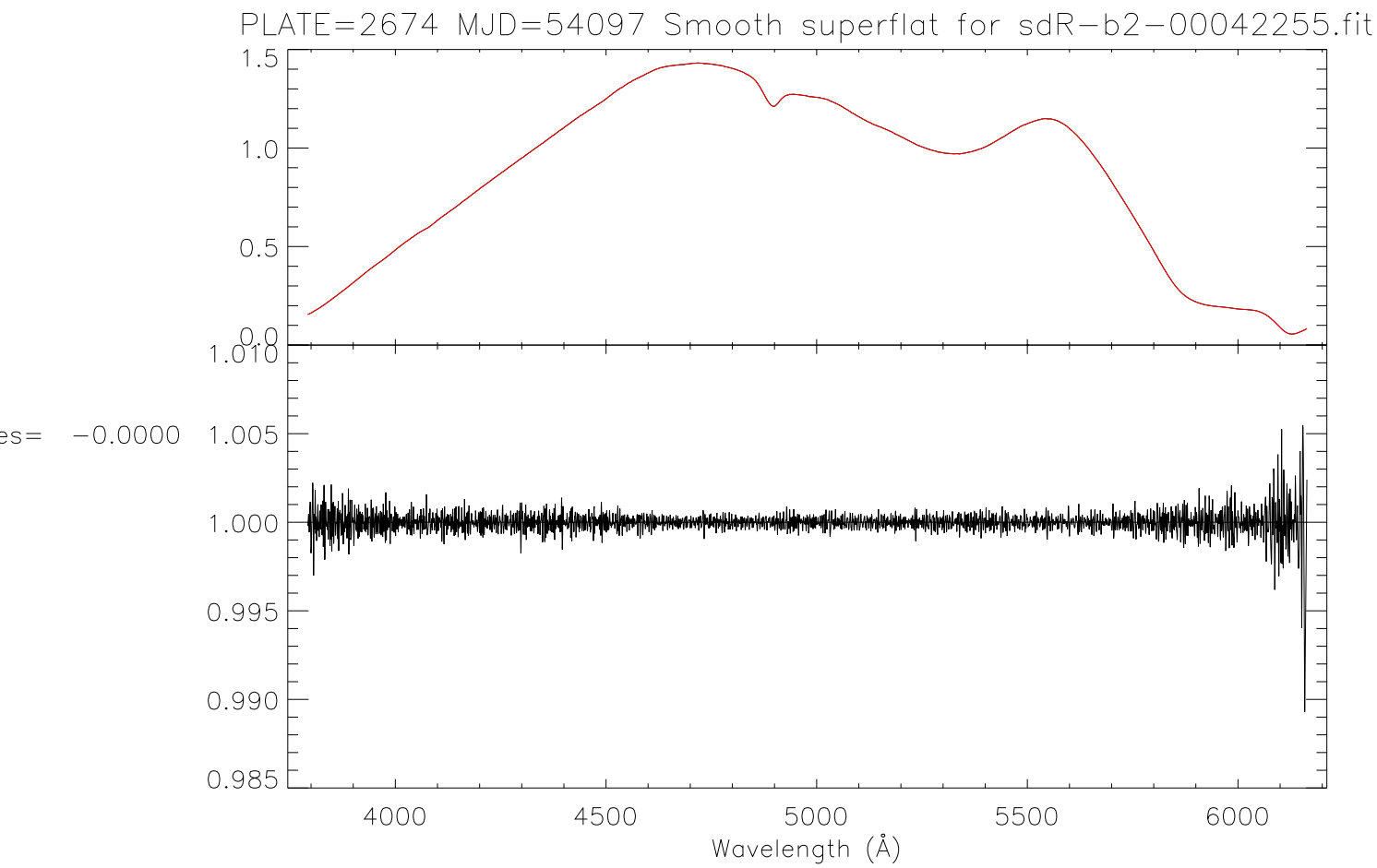

5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

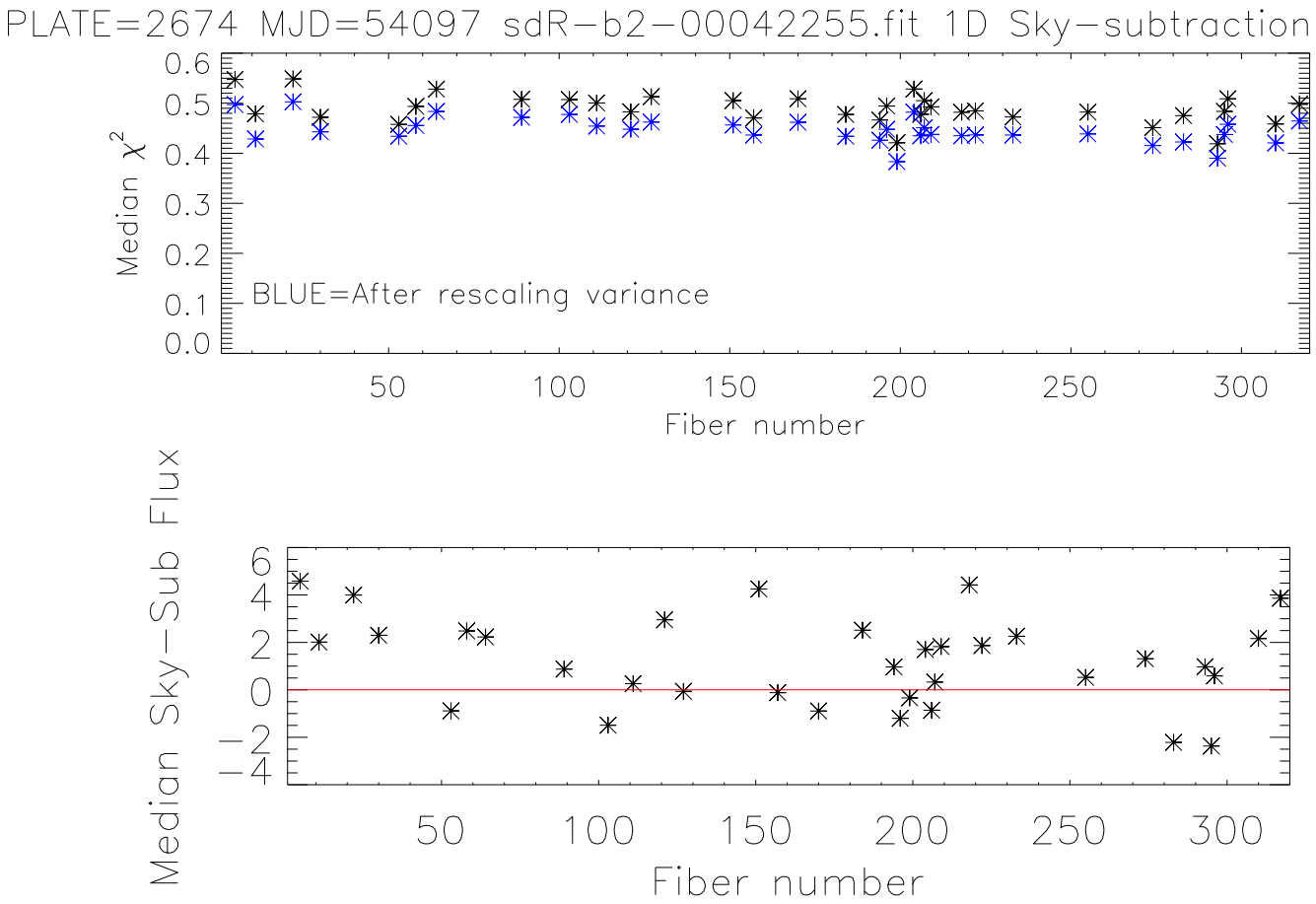

5889.9500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

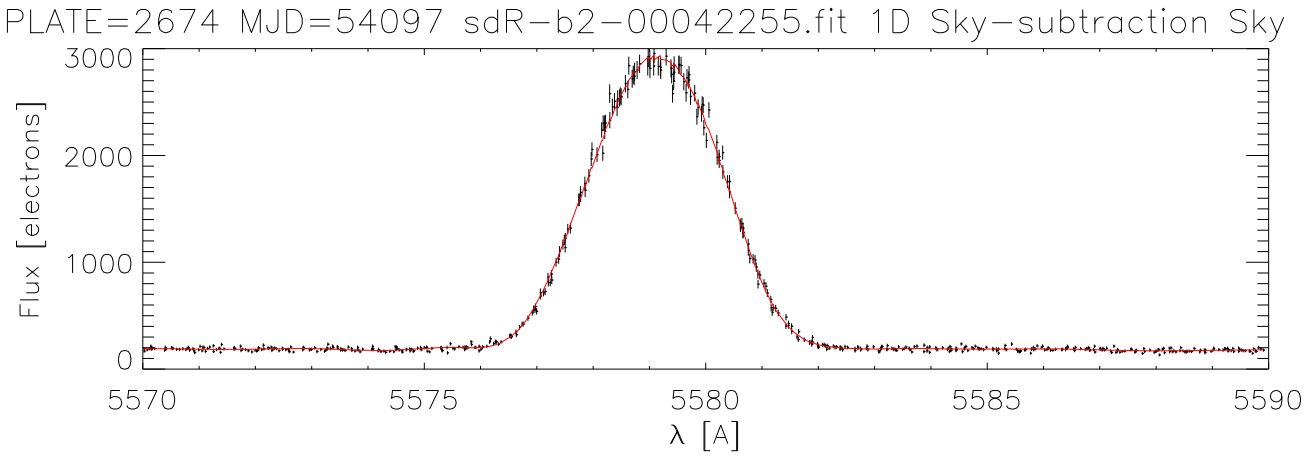

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

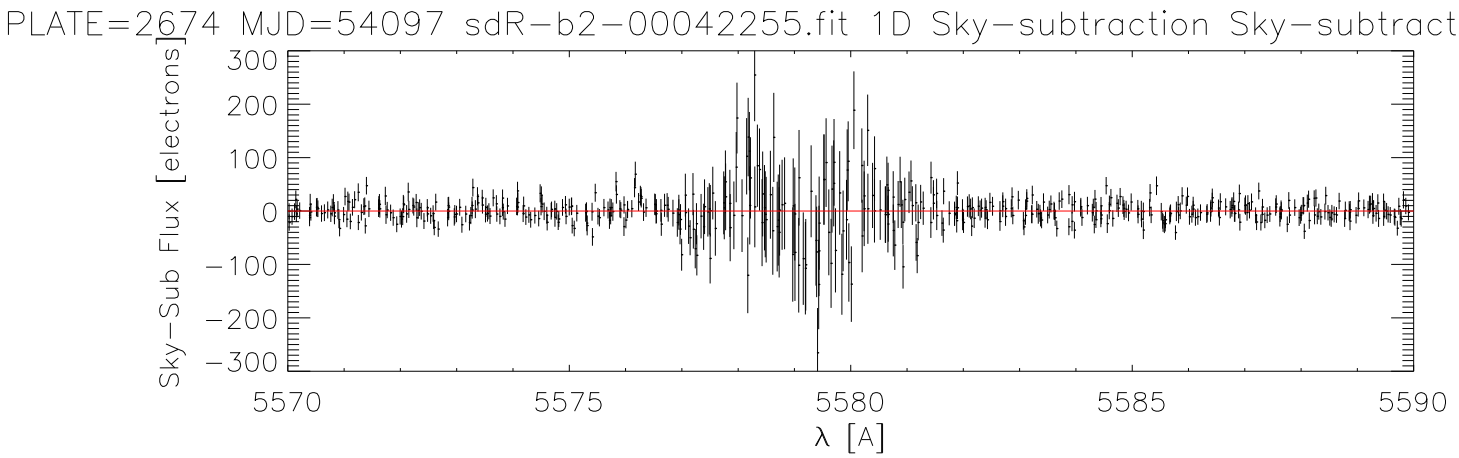

4046.5600
nfib1 37
nfib2 37
stdev 0.088
extra 0.02
4358.3300
nfib1 37
nfib2 37
stdev 0.034
extra −0.05
5460.9400
nfib1 35
nfib2 36
stdev 0.040
extra 0.04
5577.3390
nfib1 37
nfib2 37
stdev 0.018
extra 0.06
5889.9500
nfib1 37
nfib2 37
stdev 0.044
extra 0.14
5895.9240
nfib1 37
nfib2 37
stdev 0.046
extra 0.13
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

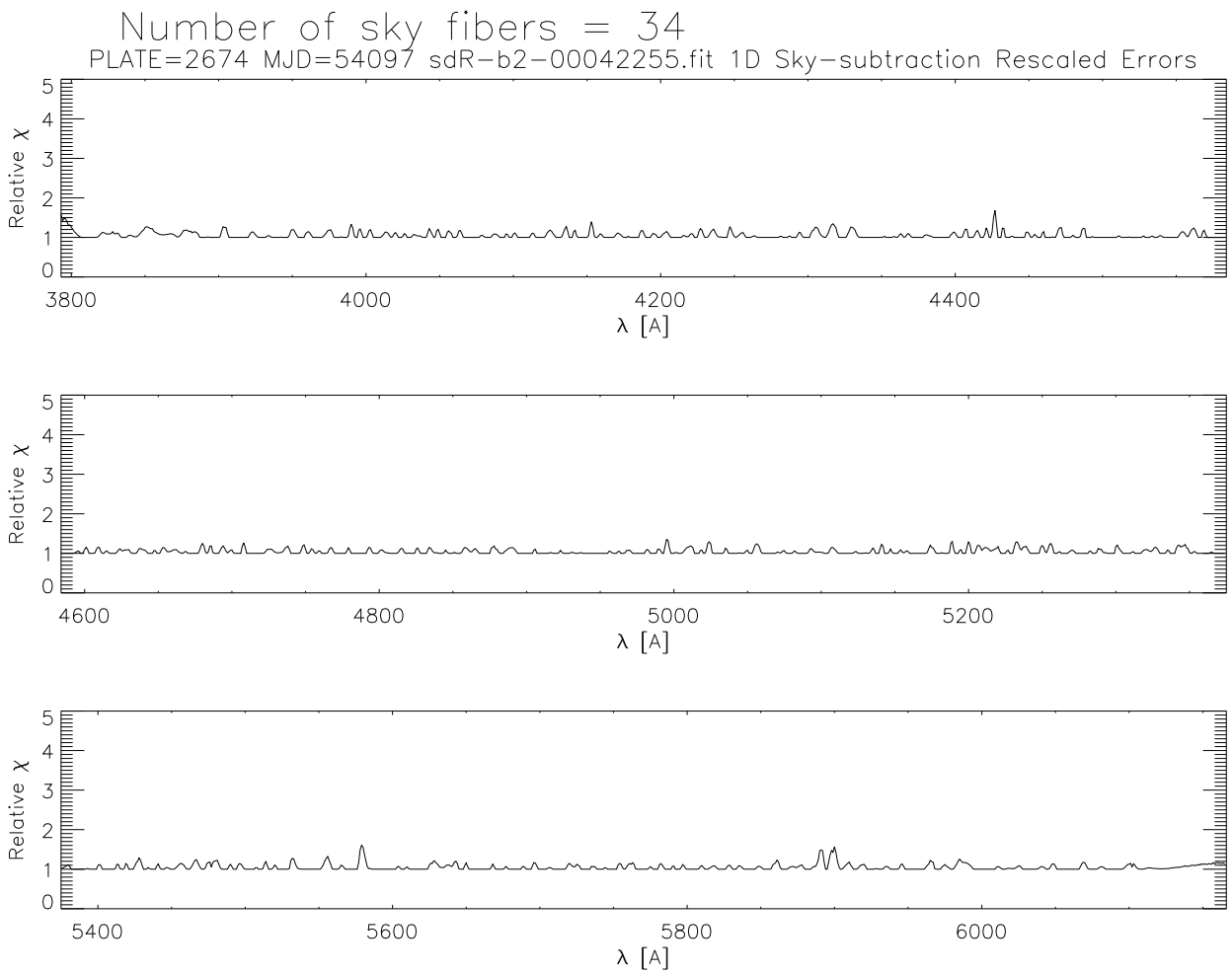

0.15
0.10
0.05
0.00
−0.05
−0.10
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

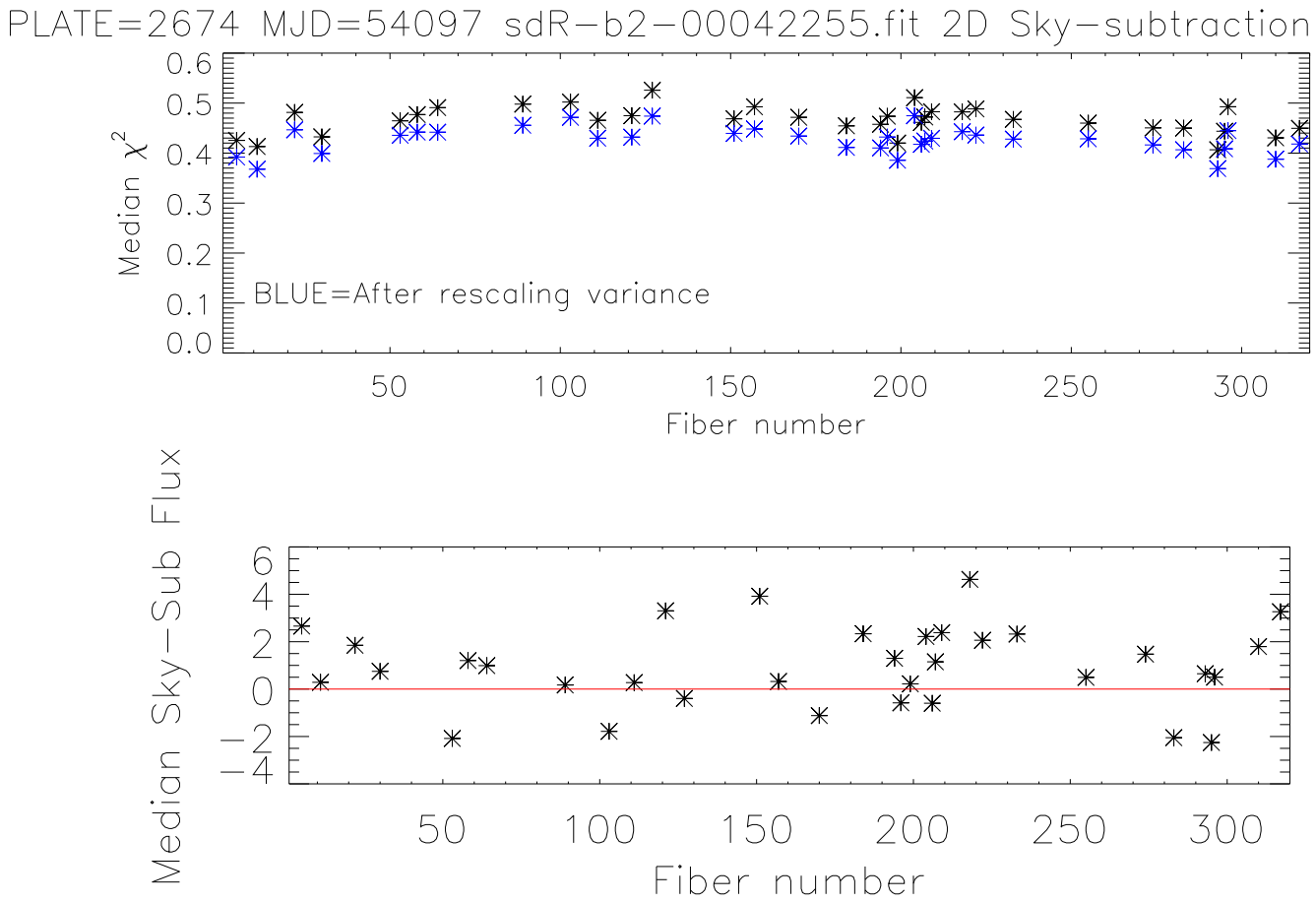

PLATE=2674 MJD=54097 Smooth superflat for sdR-b2-00042255.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
es= -0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

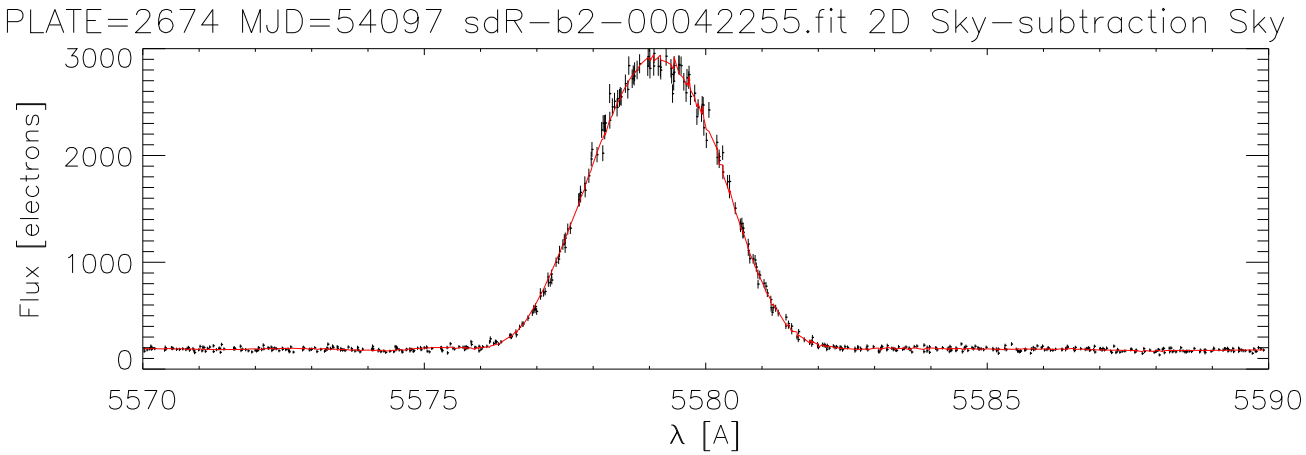

PLATE=2674 MJD=54097 sdR-b2-00042255.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

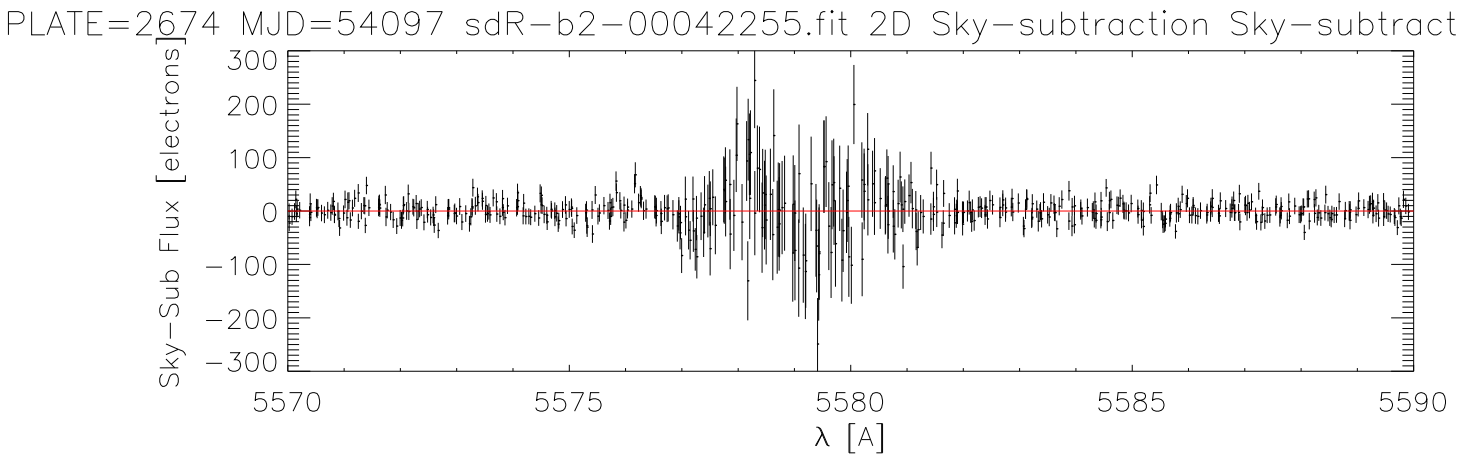

PLATE=2674 MJD=54097 sdR-b2-00042255.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

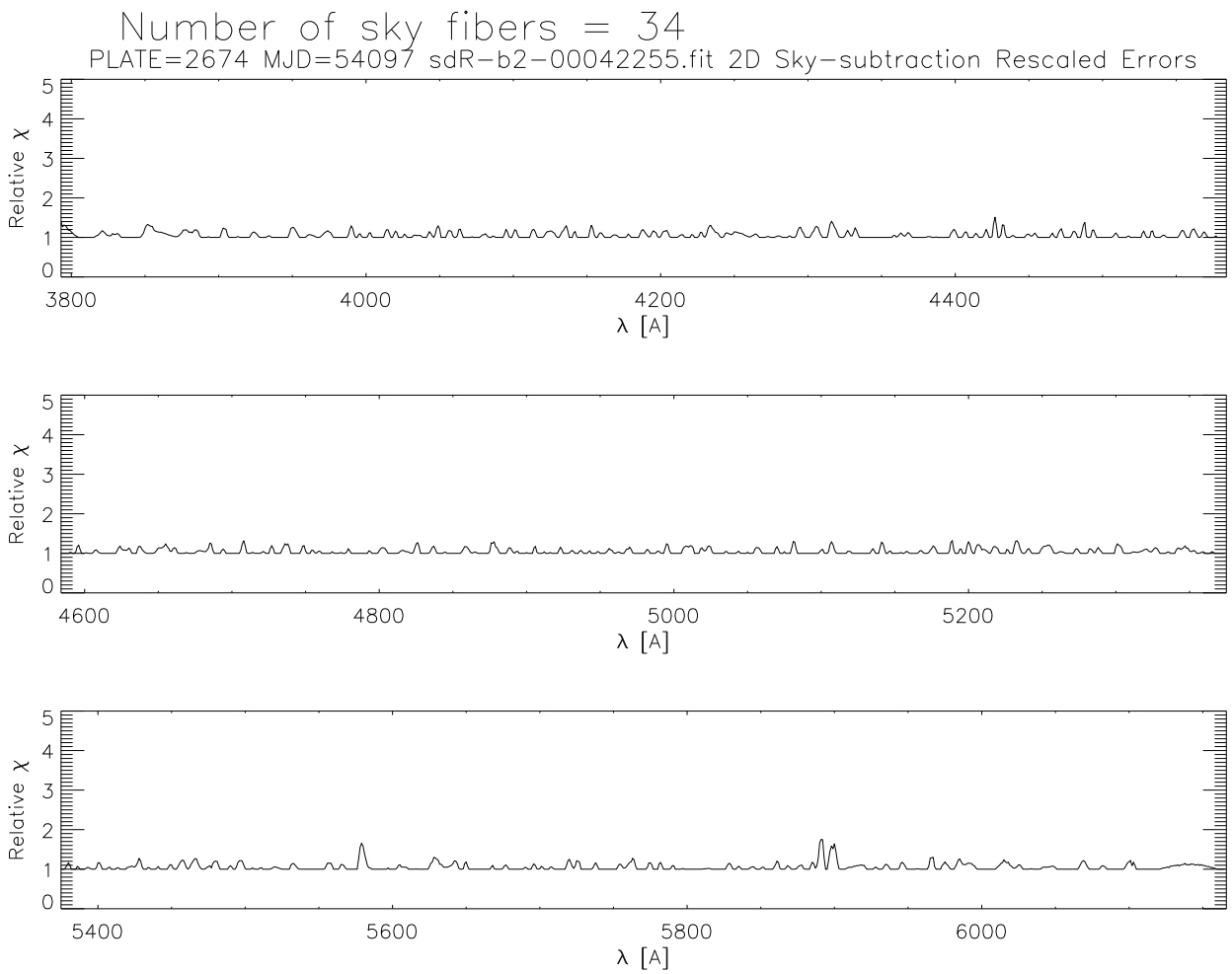

PLATE=2674 MJD=54097 sdR-b2-00042255.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

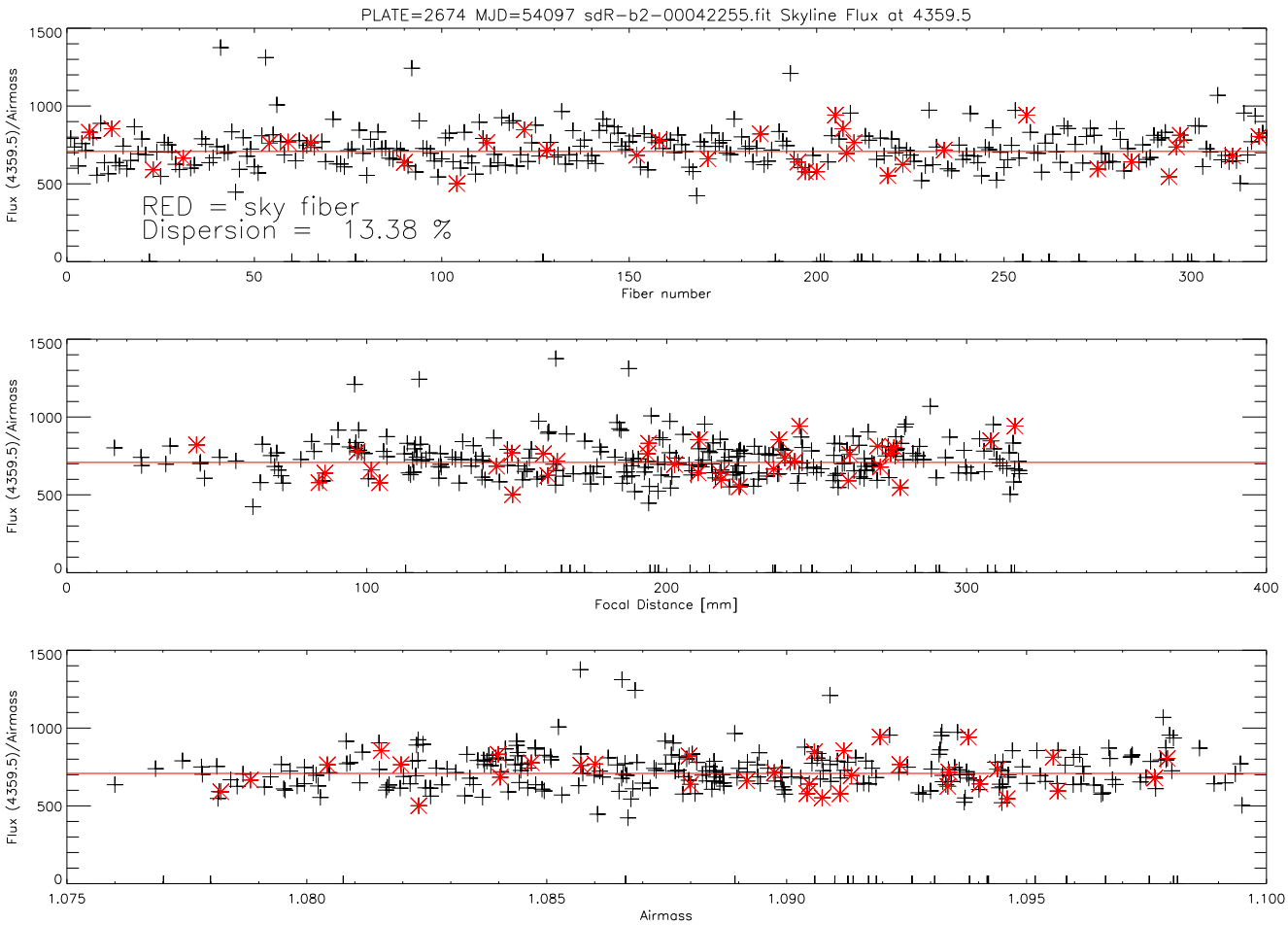

Number of sky fibers = 34
PLATE=2674 MJD=54097 sdR-b2-00042255.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

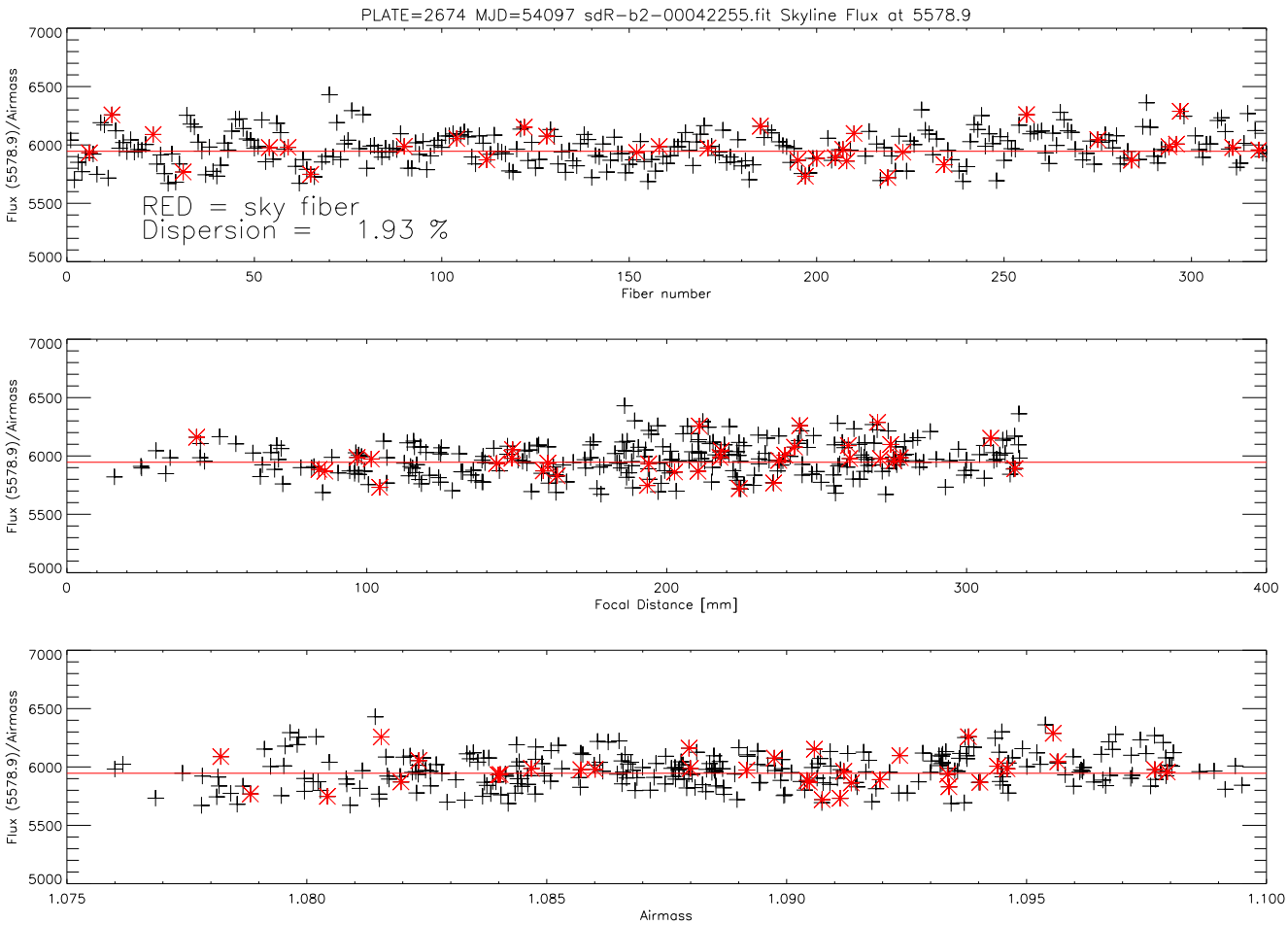

PLATE=2674 MJD=54097 sdR-b2-00042255.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

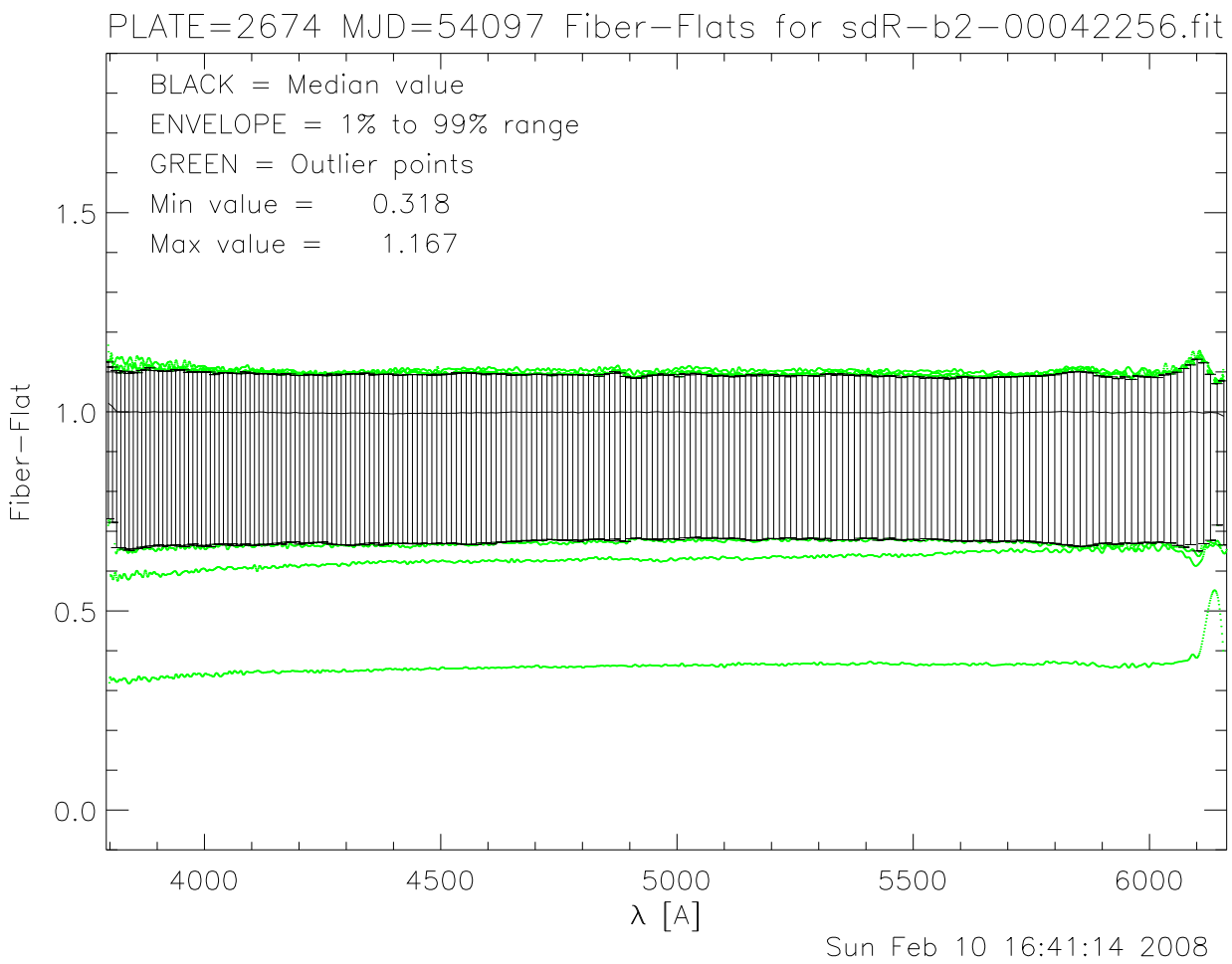

PLATE=2674 MJD=54097 sdR-b2-00042255.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

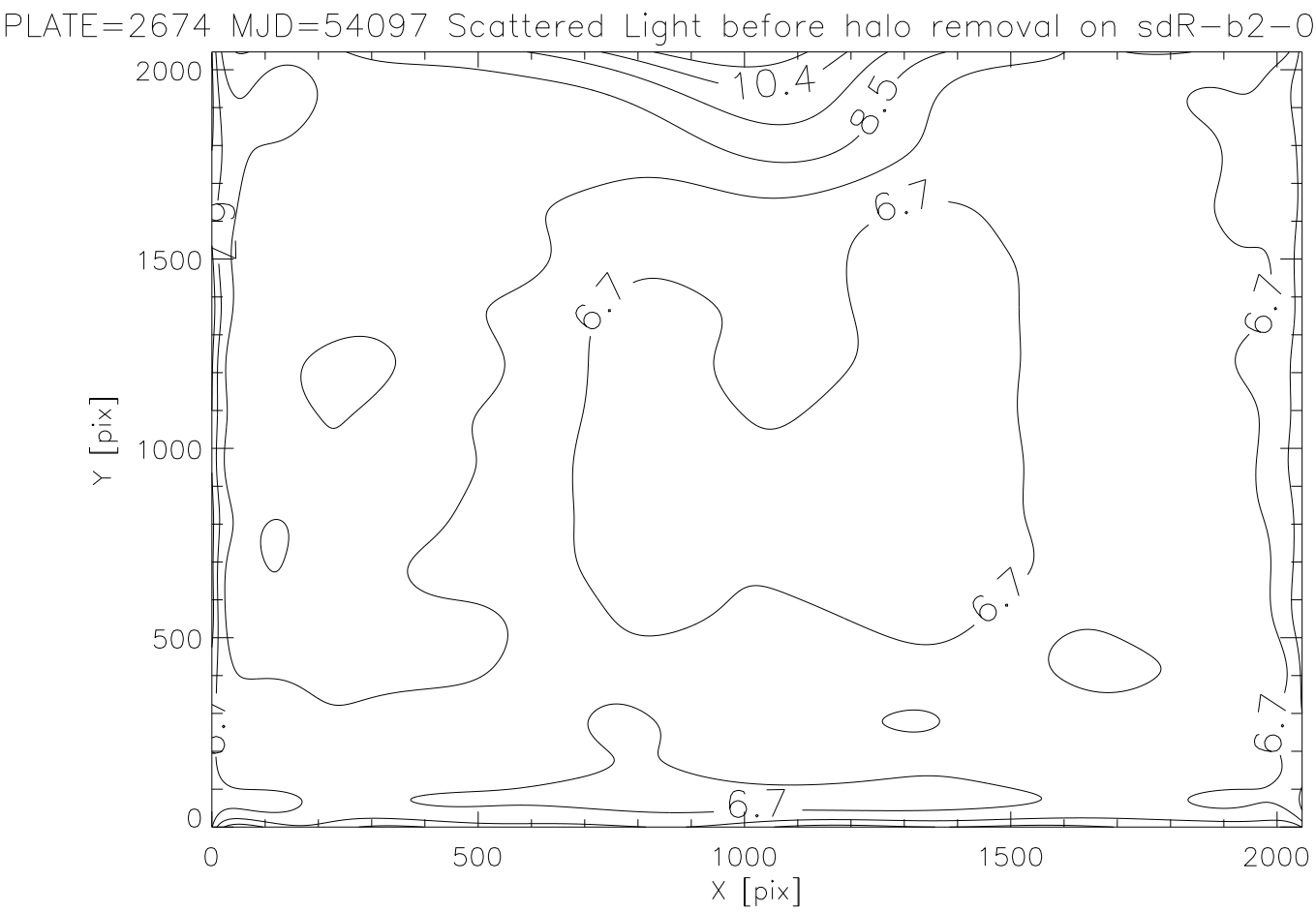

PLATE=2674 MJD=54097 sdR-b2-00042255.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

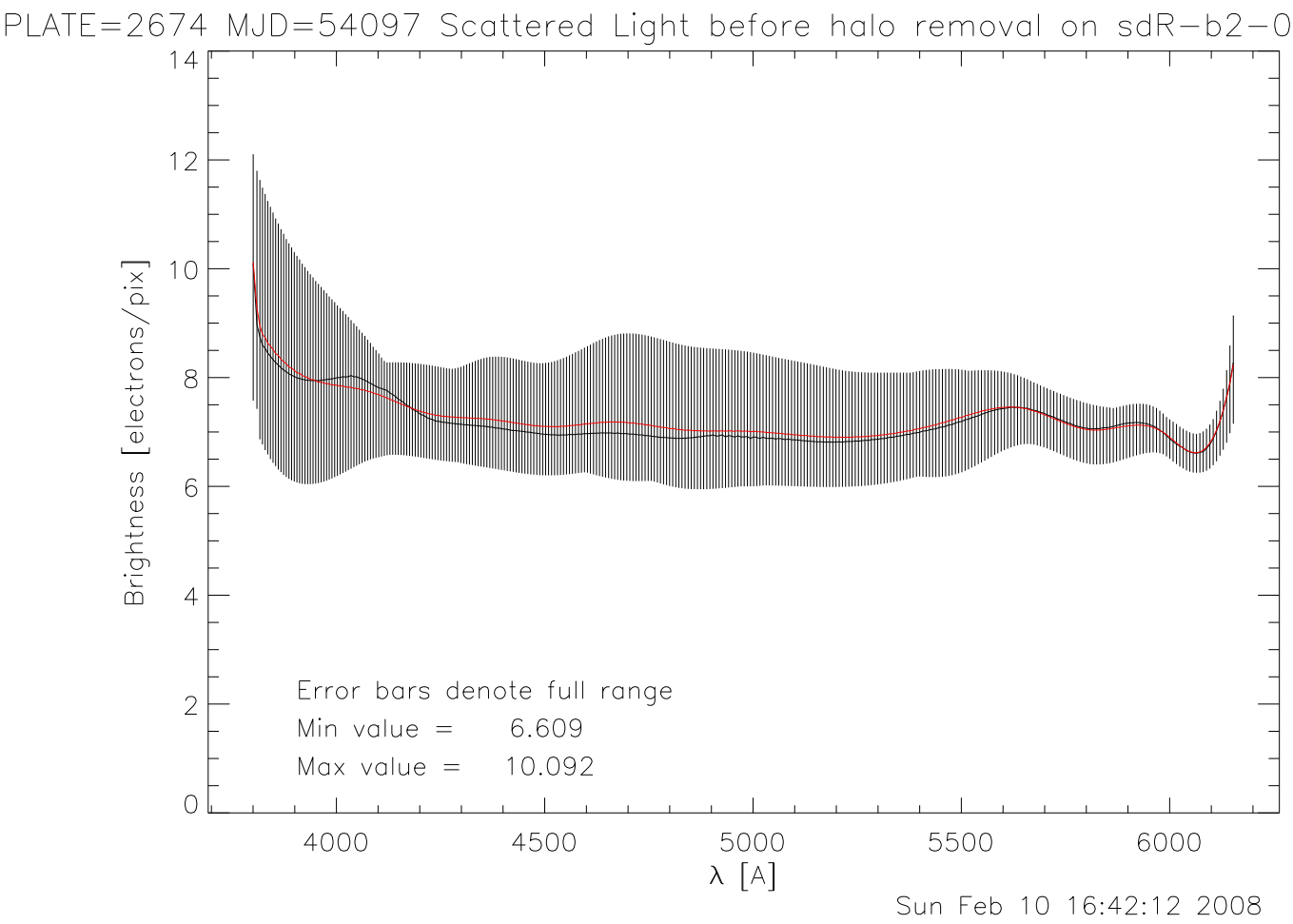

Number of sky fibers = 34
PLATE=2674 MJD=54097 sdR-b2-00042255.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

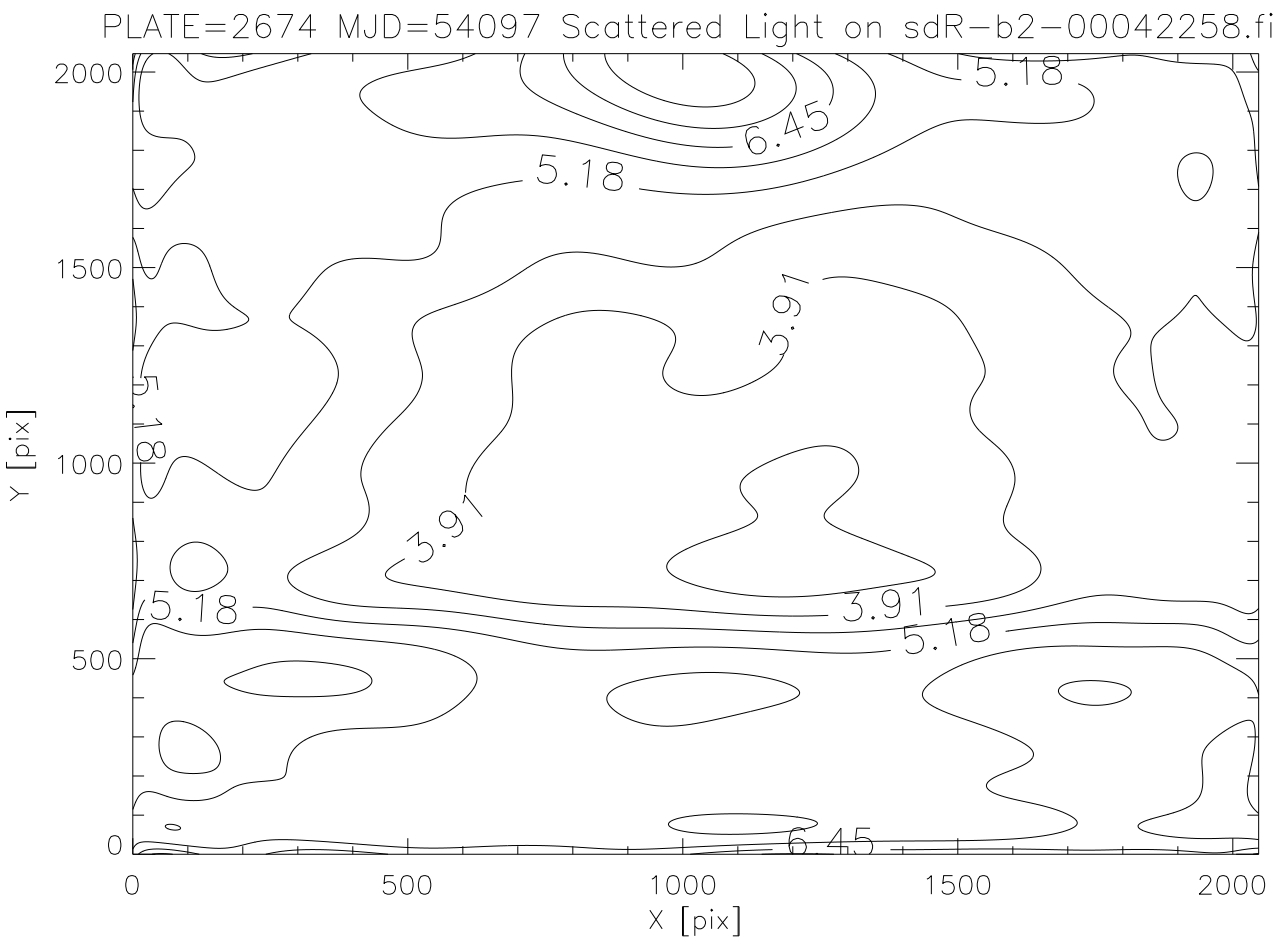

PLATE=2674 MJD=54097 sdR-b2-00042255.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 13.38 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

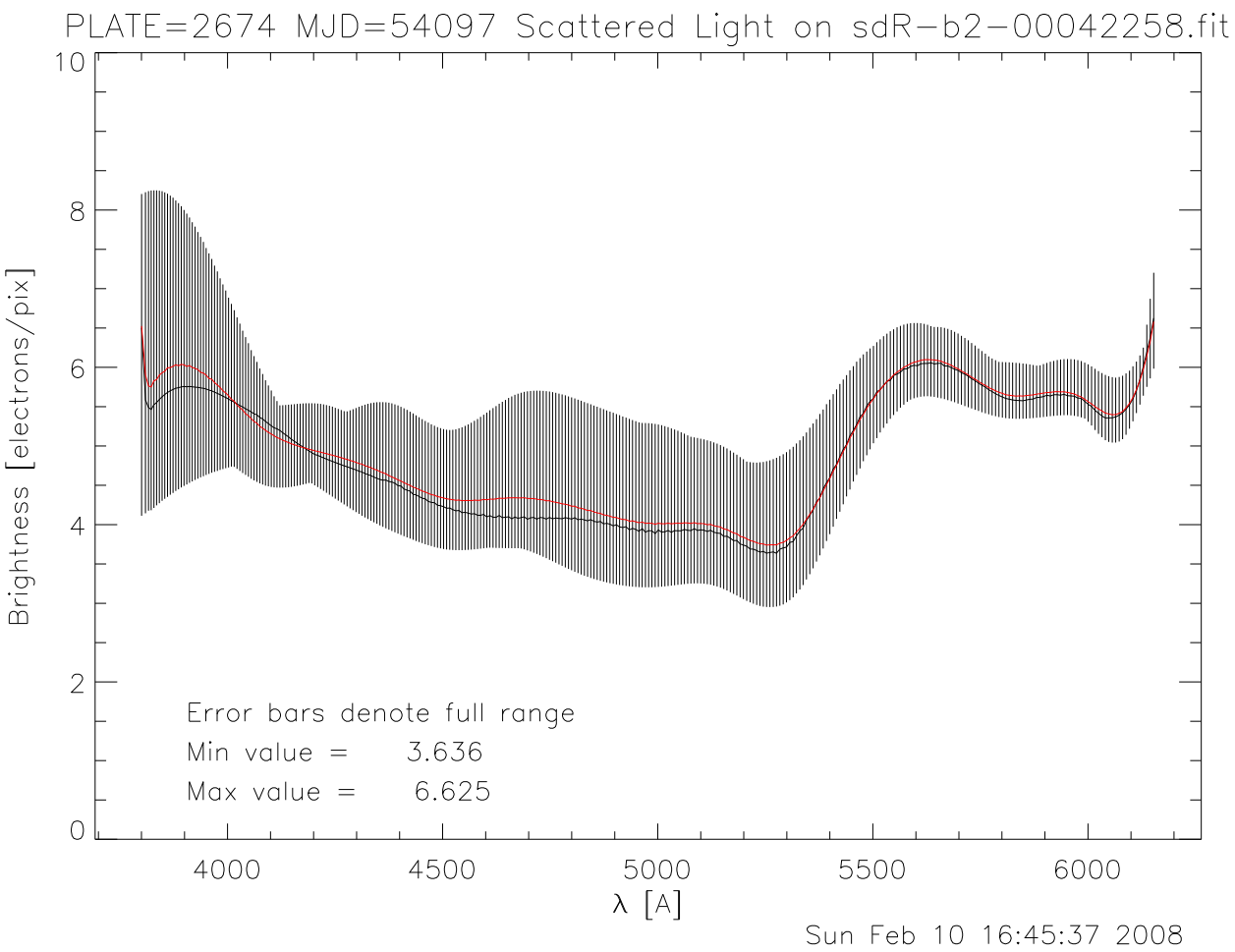

PLATE=2674 MJD=54097 sdR-b2-00042255.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.93 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

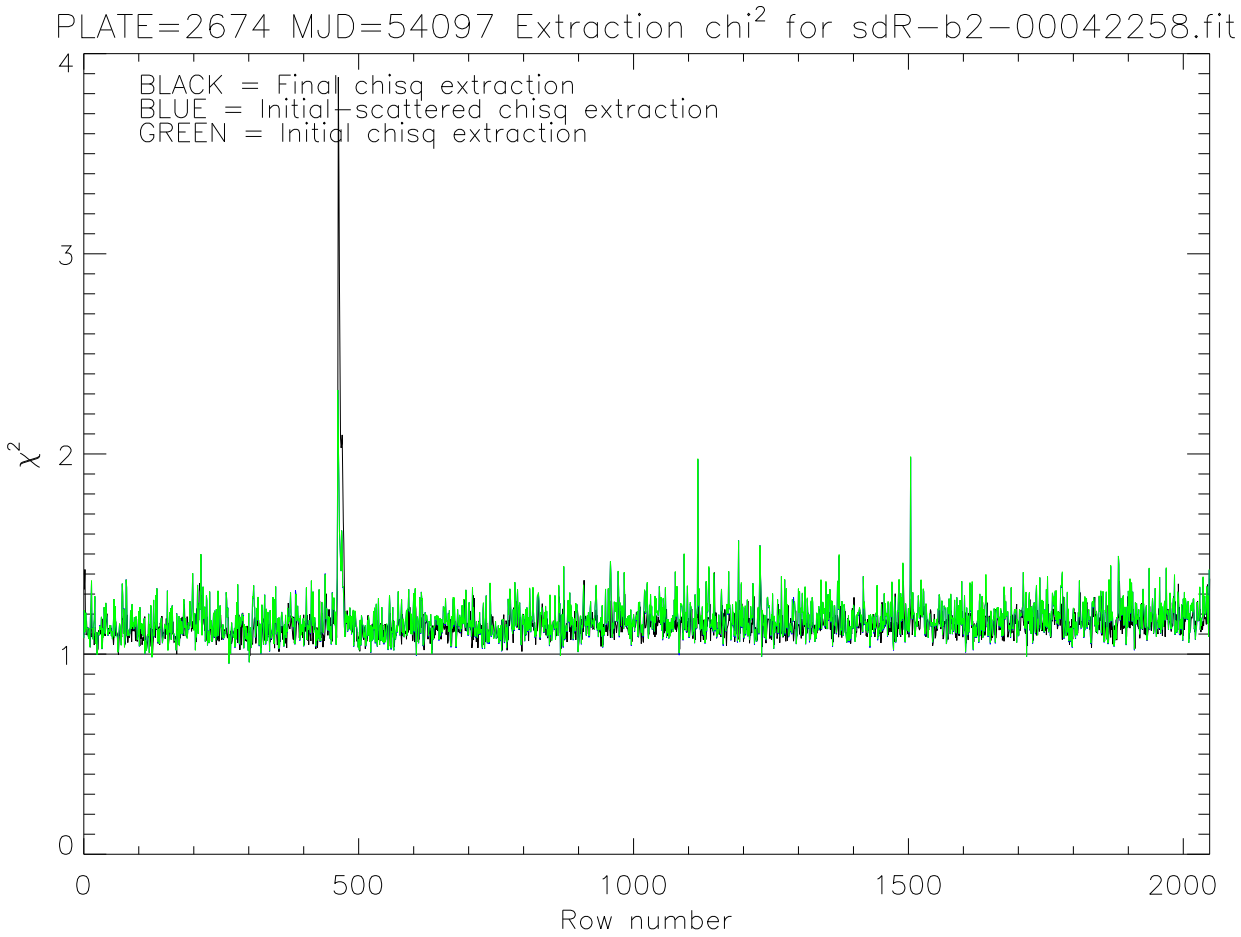

PLATE=2674 MJD=54097 Fiber-Flats for sdR-b2-00042256.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.318
Max value = 1.167
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sun Feb 10 16:41:14 2008

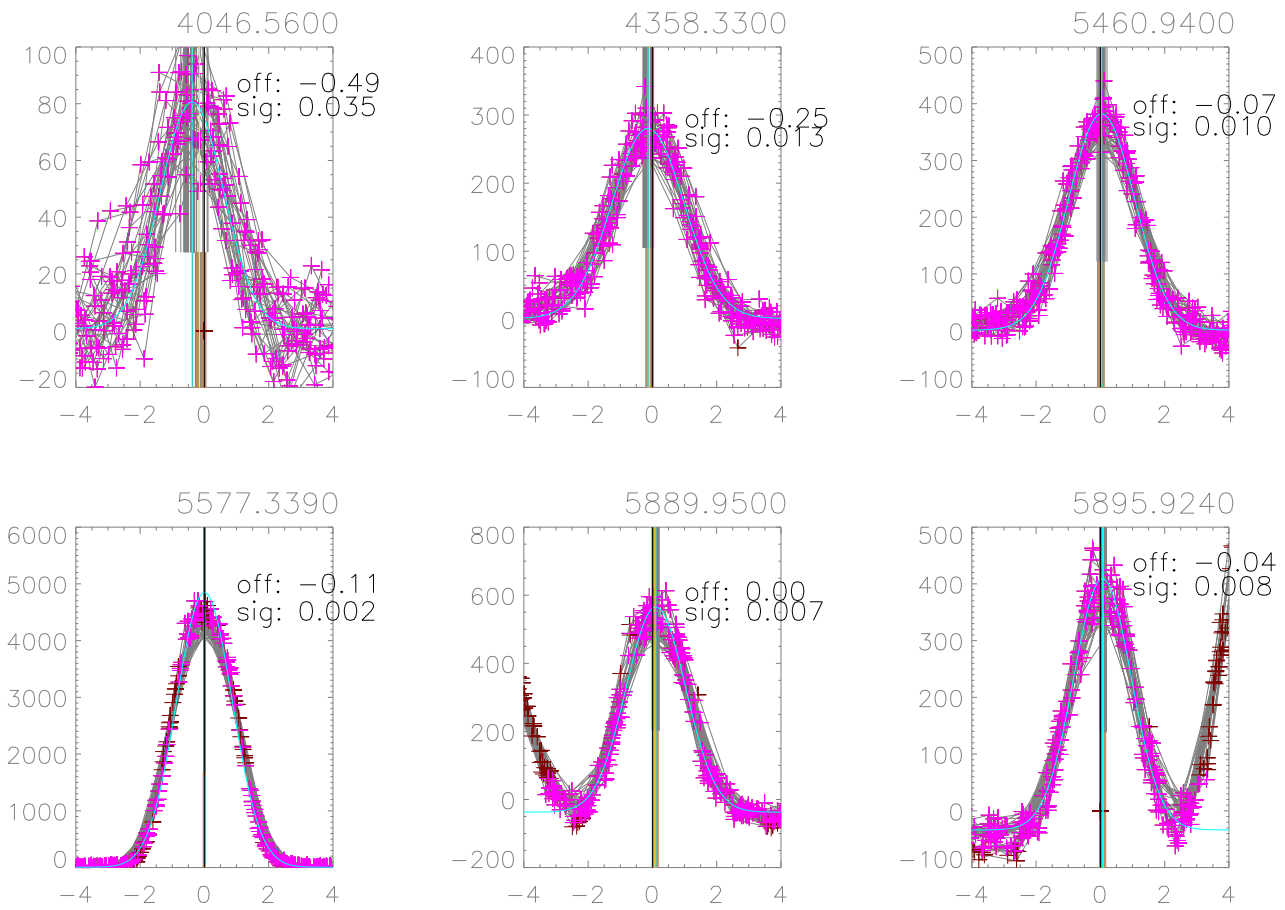

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR-b2-00042258.f
10.4
8.5
6.7
6.7
6.7
6.7
6.7
6.7
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

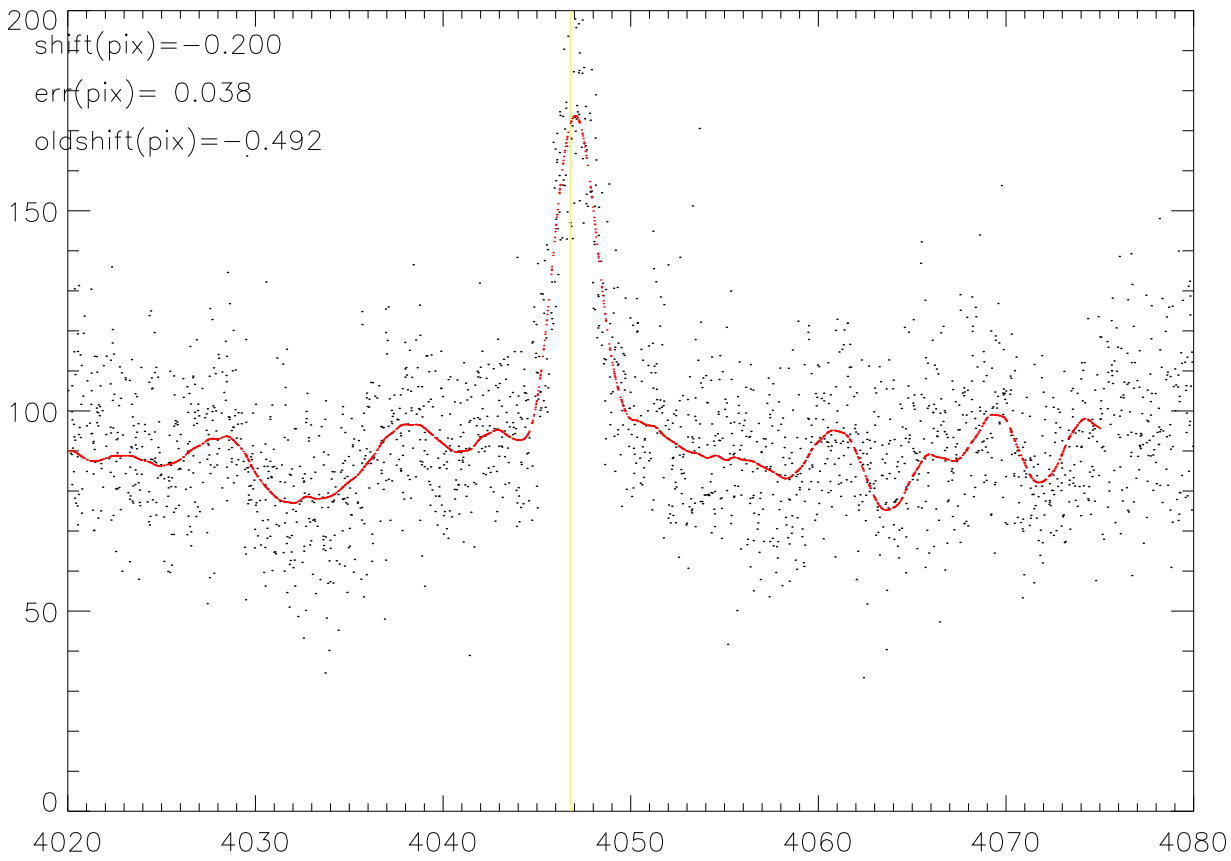

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR-b2-00042258.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.609
Max value = 10.092
Sun Feb 10 16:42:12 2008

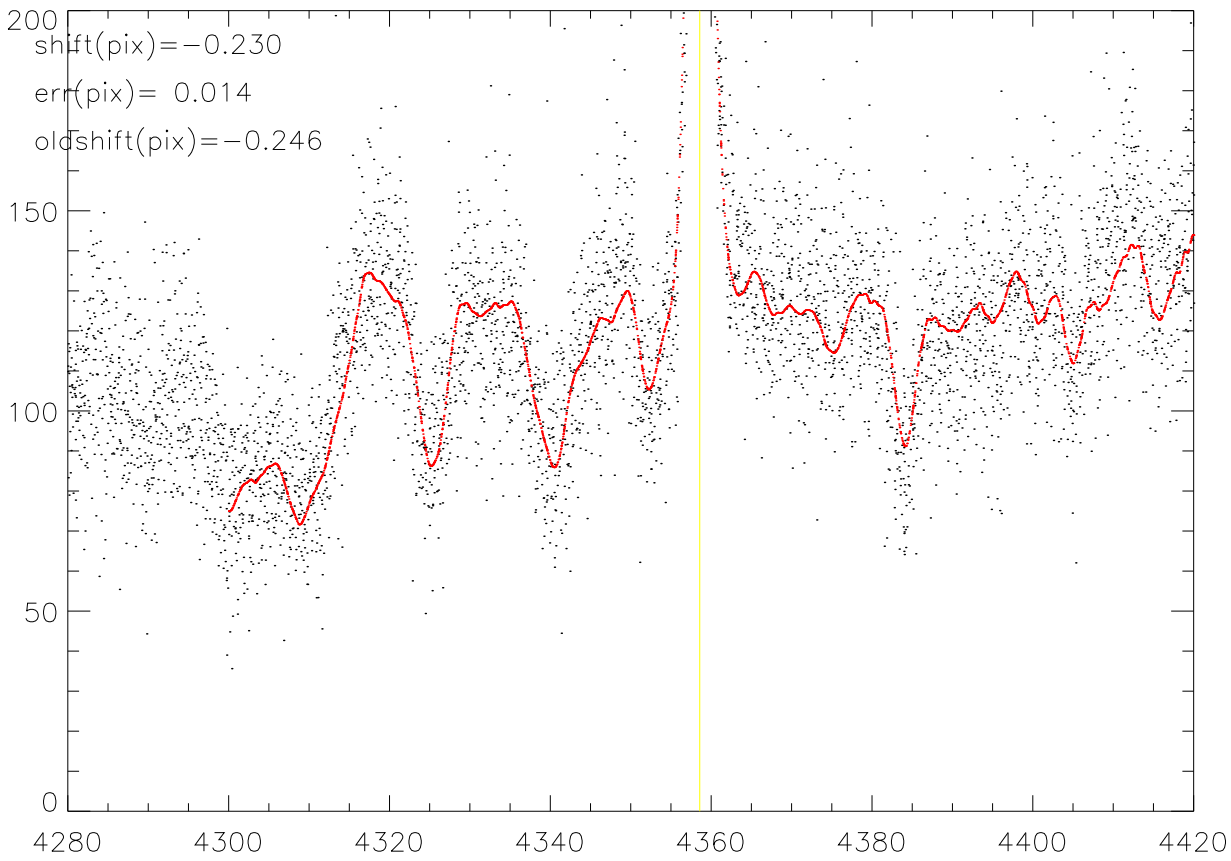

PLATE=2674 MJD=54097 Scattered Light on sdR-b2-00042258.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
5.18
6.45
5.18
3.91
5.18
3.91
5.18
3.91
5.18
6.45

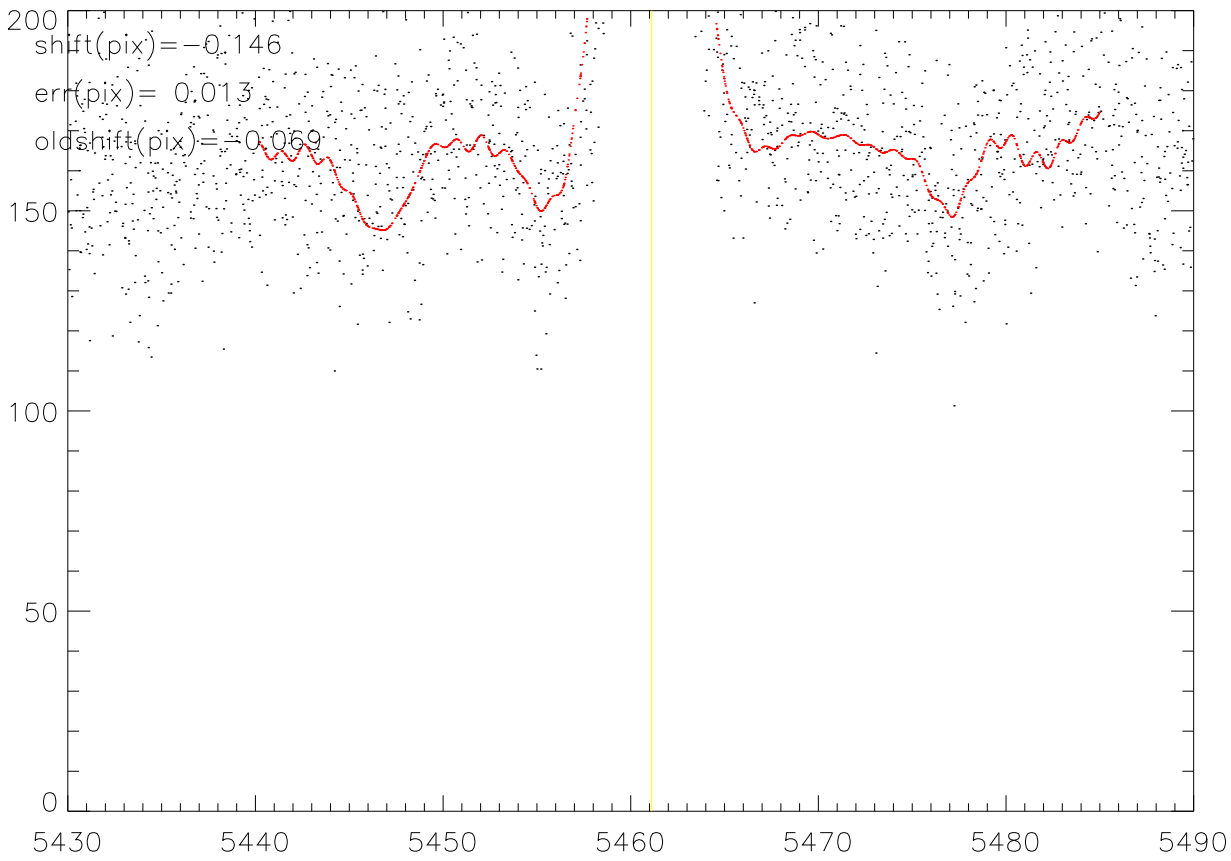

PLATE=2674 MJD=54097 Scattered Light on sdR-b2-00042258.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.636
Max value = 6.625
Sun Feb 10 16:45:37 2008

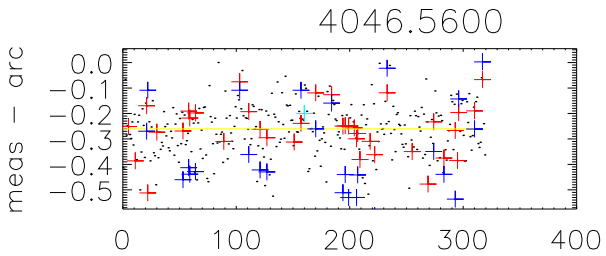

PLATE=2674 MJD=54097 Extraction chi^2 for sdR-b2-00042258.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

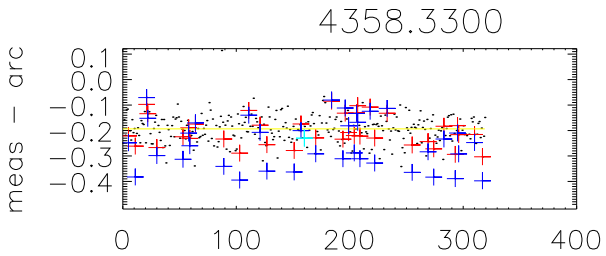

4046.5600
off: −0.49
sig: 0.035
4358.3300
off: −0.25
sig: 0.013
5460.9400
off: −0.07
sig: 0.010
5577.3390
off: −0.11
sig: 0.002
5889.9500
off: 0.00
sig: 0.007
5895.9240
off: −0.04
sig: 0.008

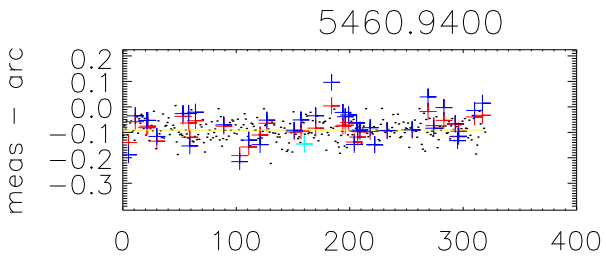

shift(pix)=−0.200
err(pix)= 0.038
oldshift(pix)=−0.492
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

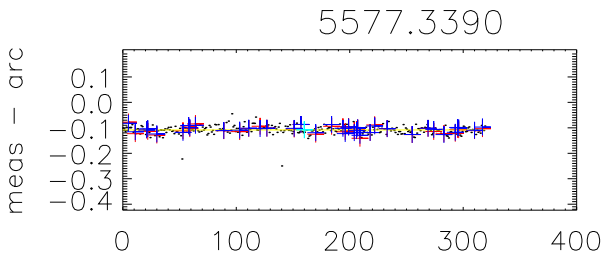

shift(pix)=−0.230
err(pix)= 0.014
oldshift(pix)=−0.246
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

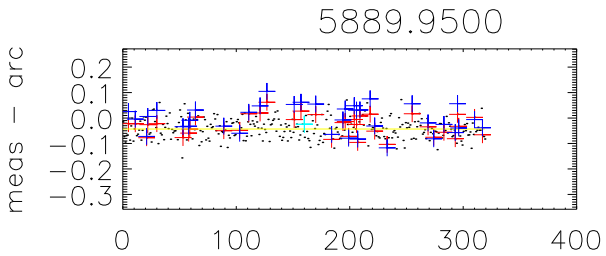

shift(pix)=−0.146
err(pix)= 0.013
oldshift(pix)=−0.069
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

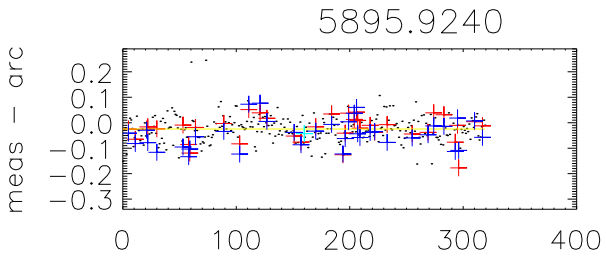

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

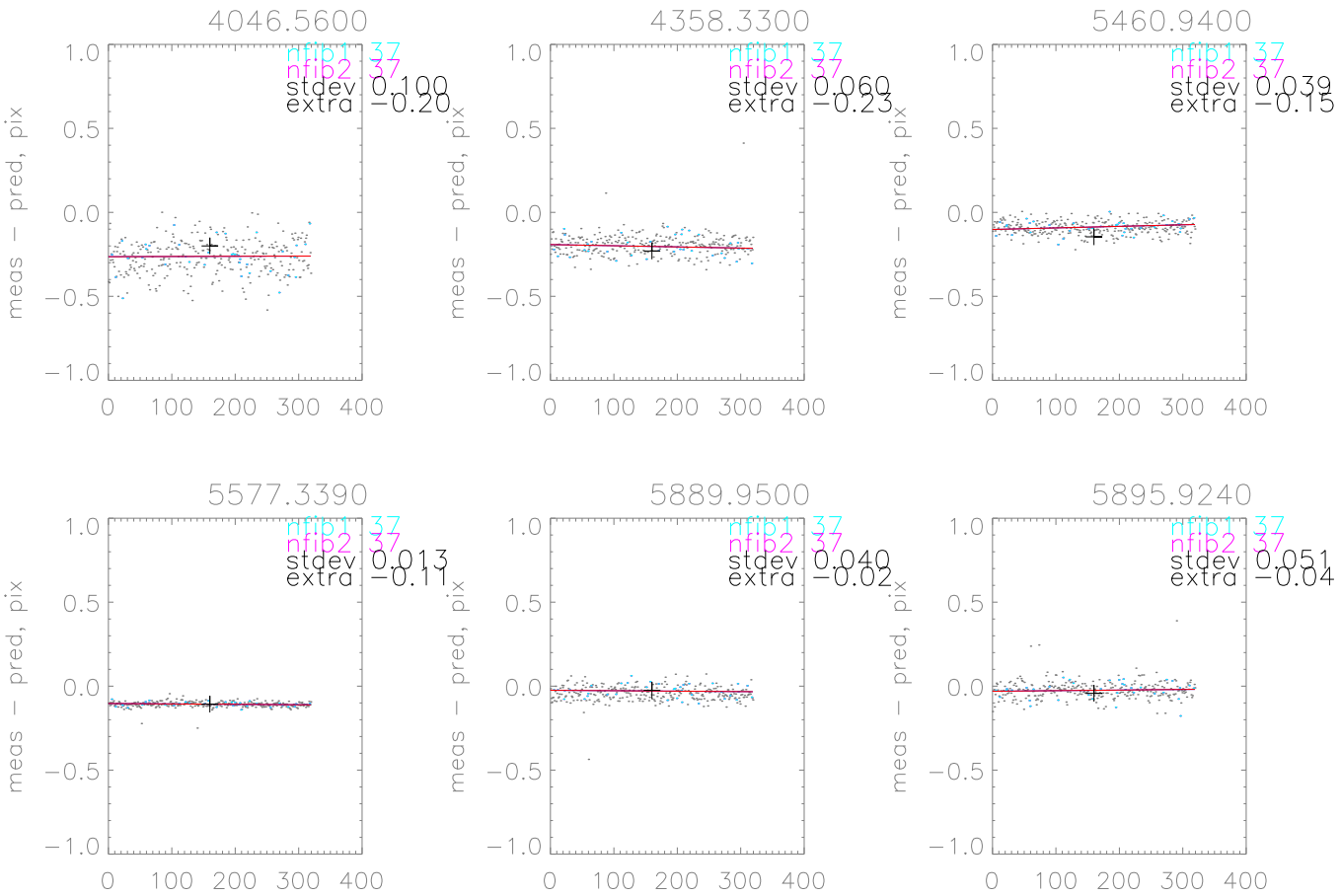

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

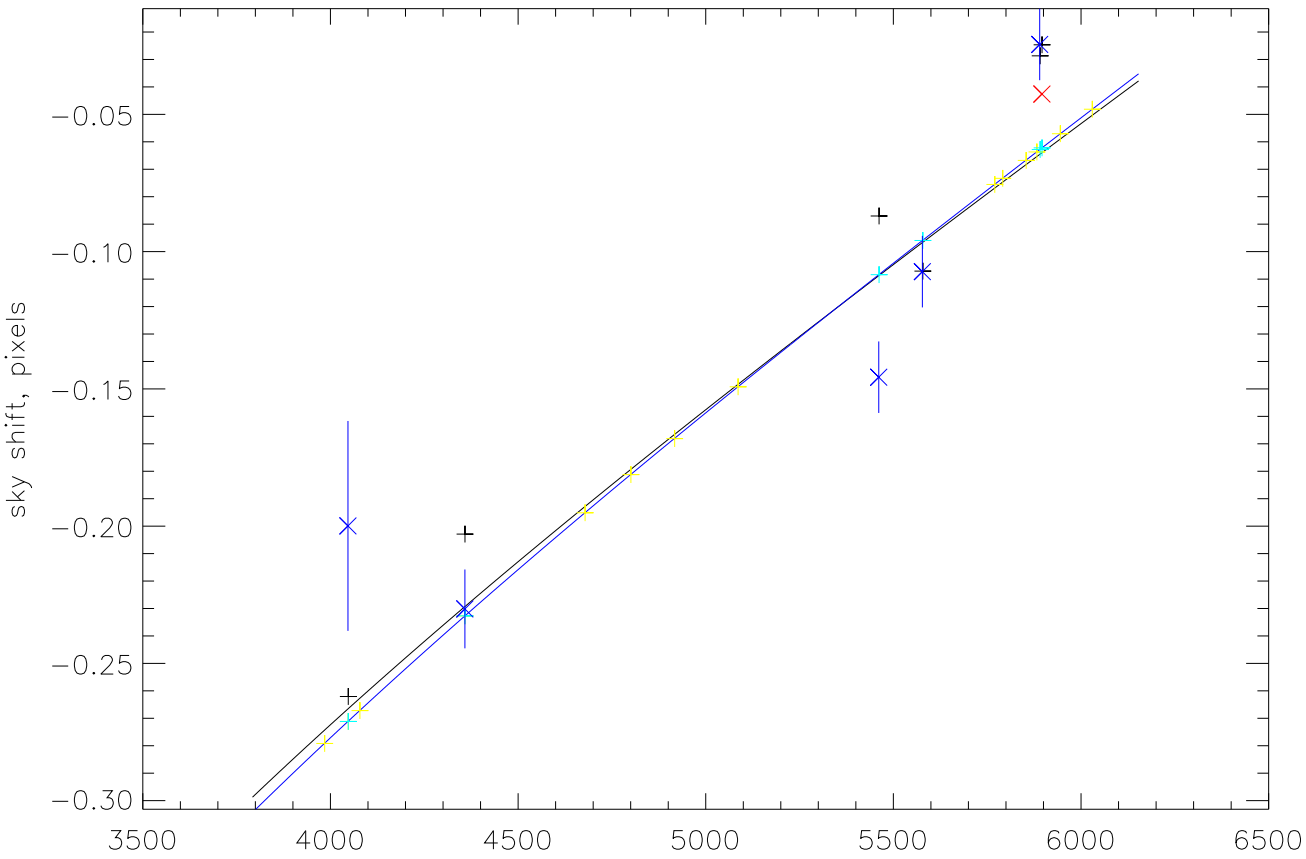

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

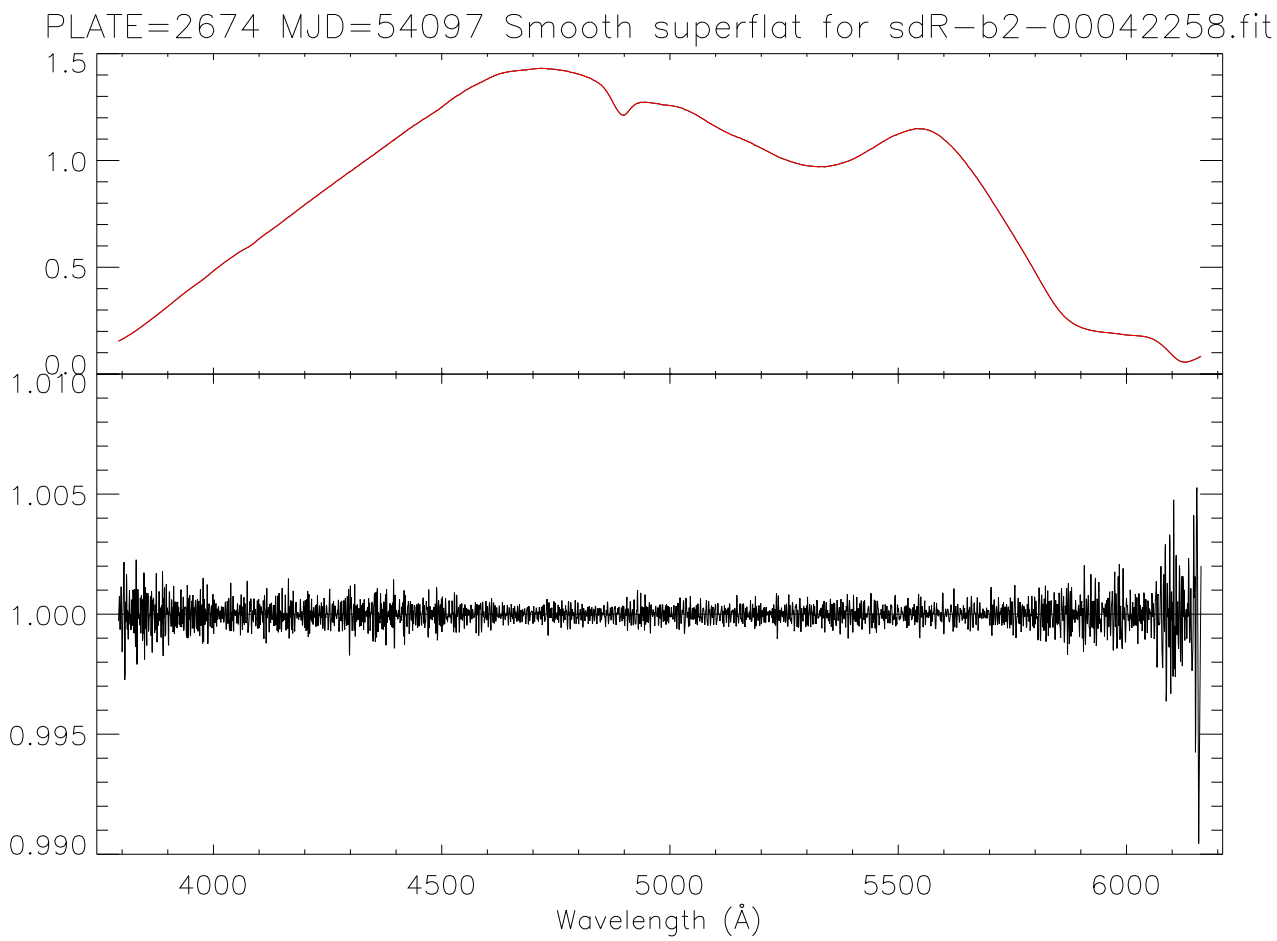

5889.9500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

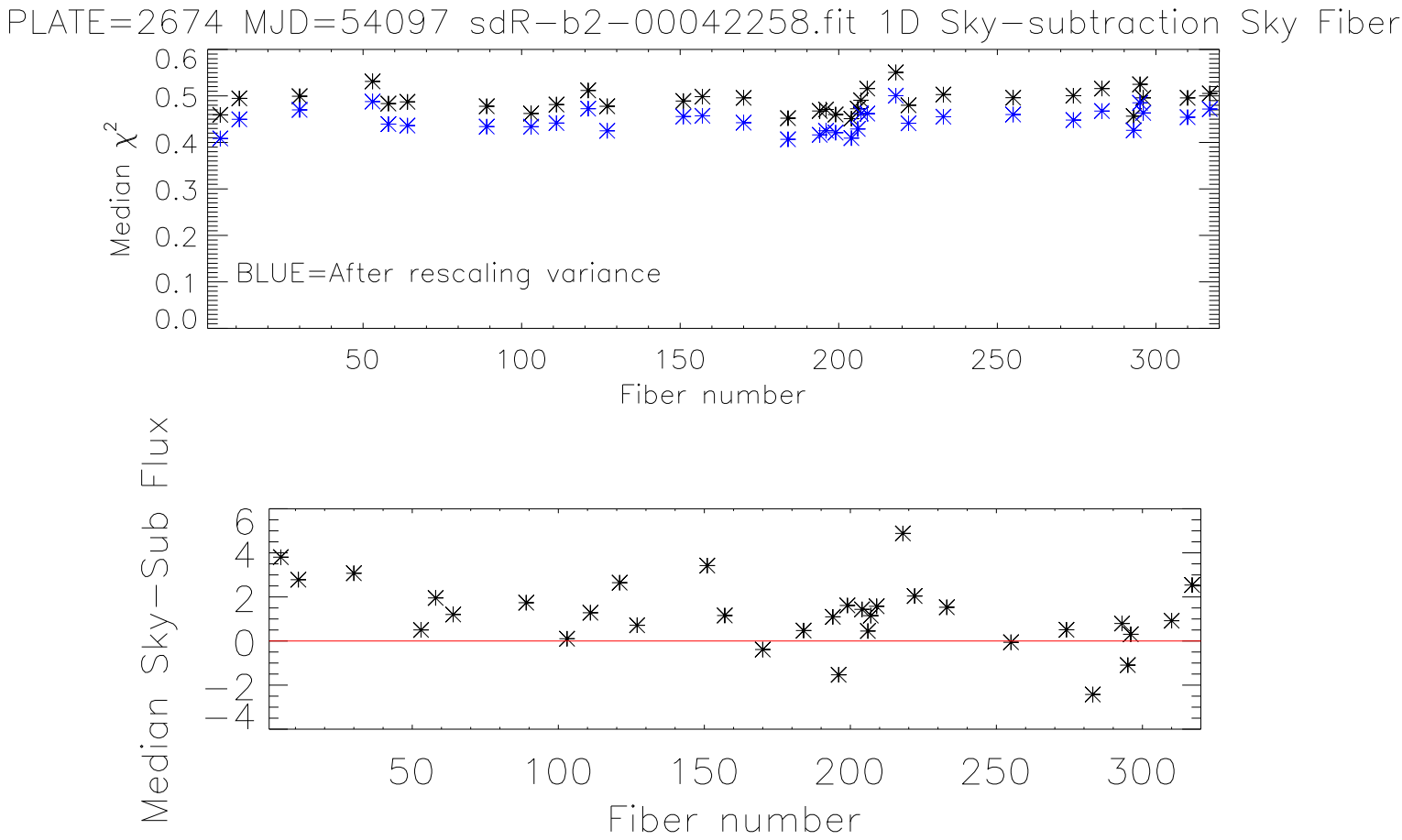

5895.9240
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

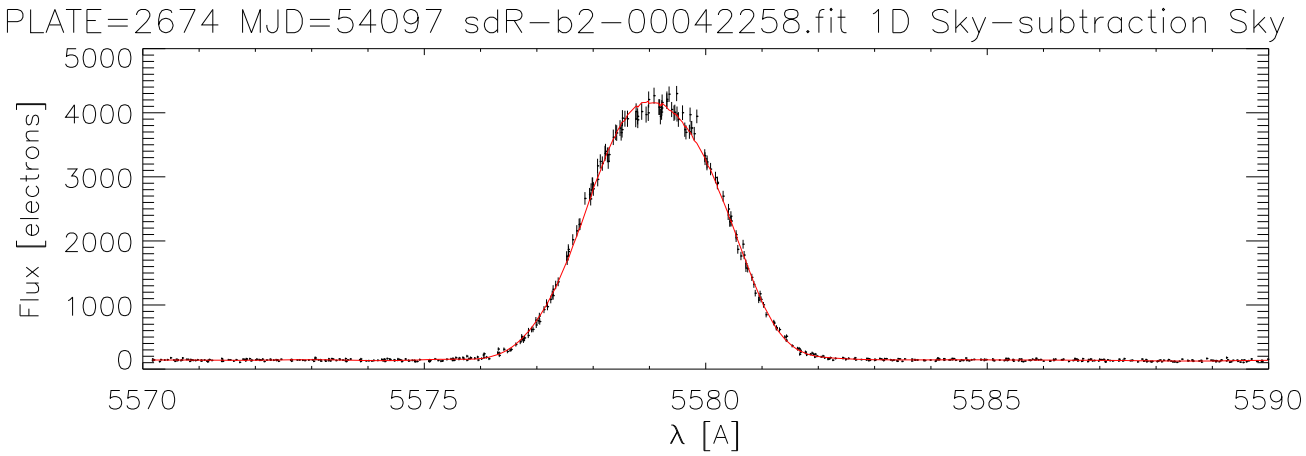

4046.5600
nfib1 37
nfib2 37
stdev 0.100
extra −0.20
4358.3300
nfib1 37
nfib2 37
stdev 0.060
extra −0.23
5460.9400
nfib1 37
nfib2 37
stdev 0.039
extra −0.15
5577.3390
nfib1 37
nfib2 37
stdev 0.013
extra −0.11
5889.9500
nfib1 37
nfib2 37
stdev 0.040
extra −0.02
5895.9240
nfib1 37
nfib2 37
stdev 0.051
extra −0.04
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

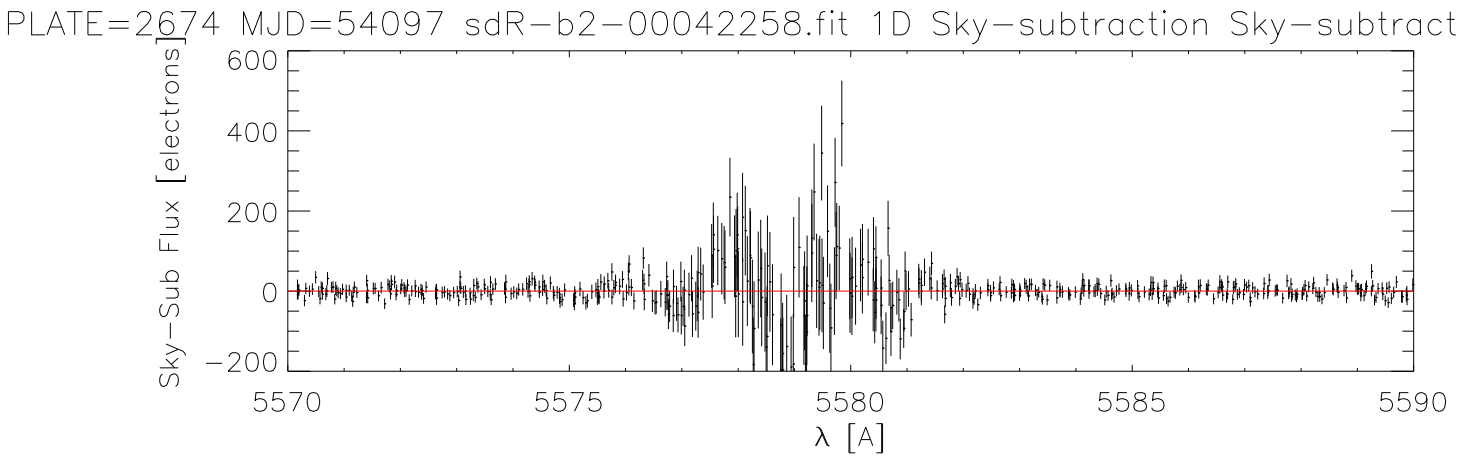

sky shift, pixels
−0.05
−0.10
−0.15
−0.20
−0.25
−0.30
3500
4000
4500
5000
5500
6000
6500

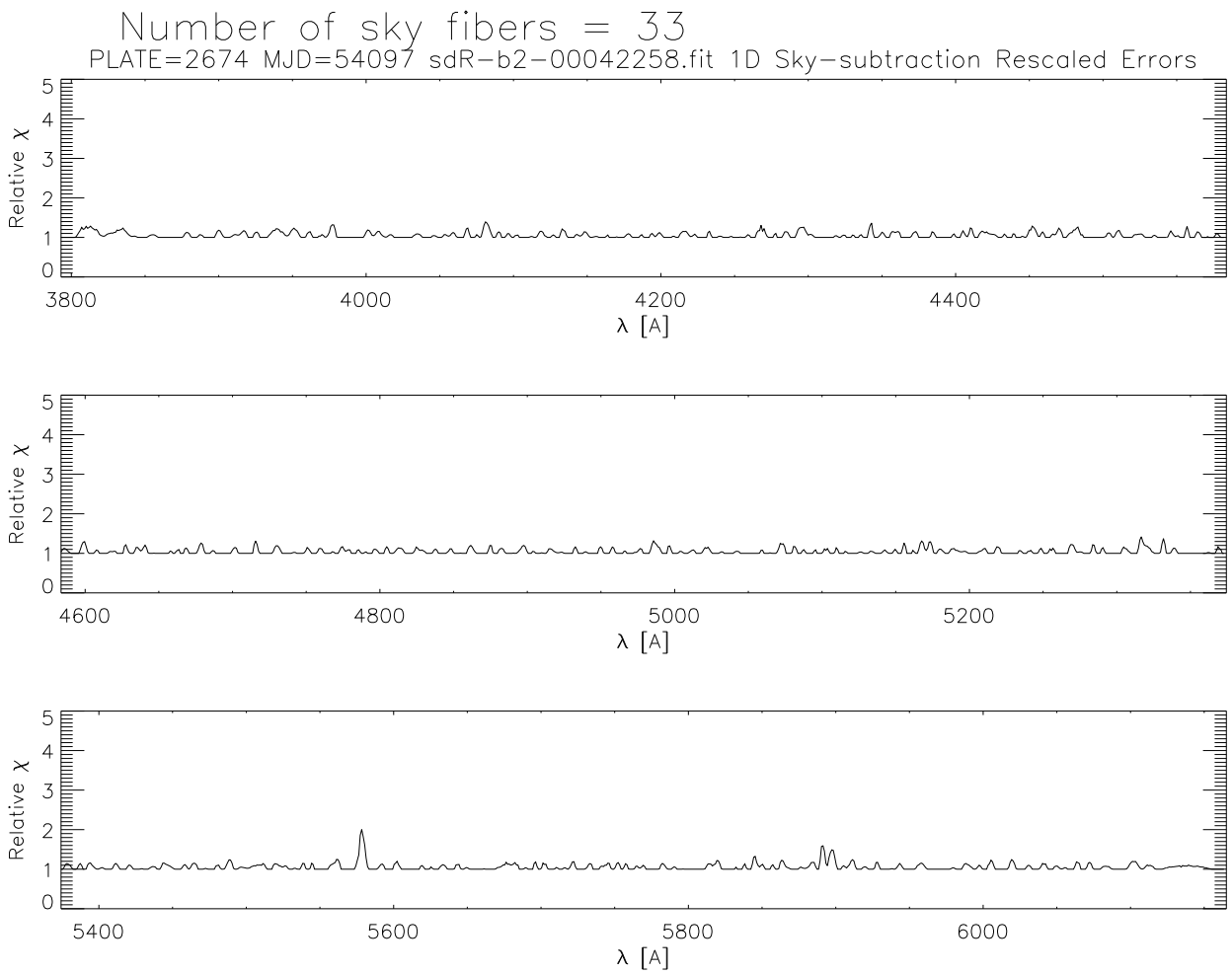
es= −0.0000

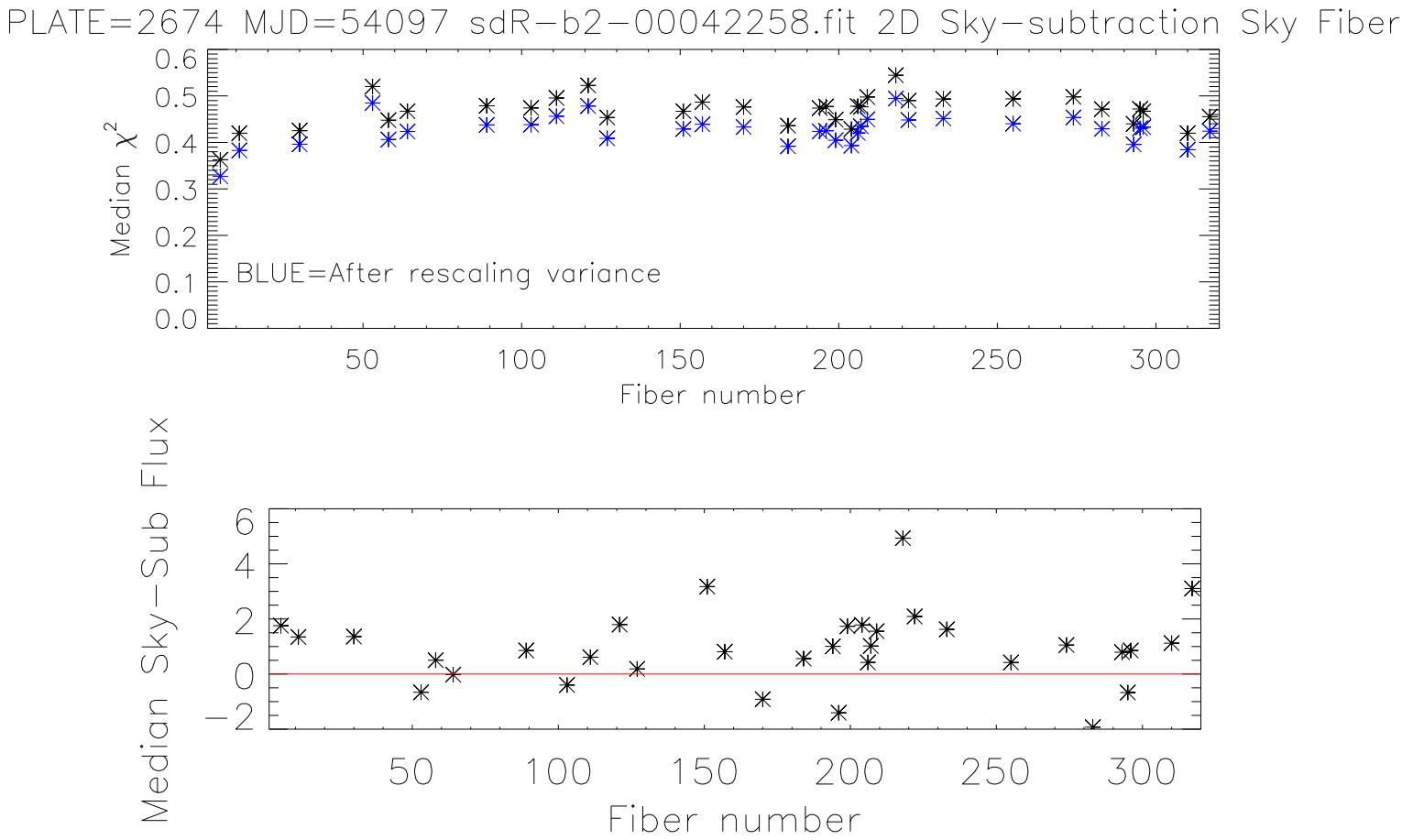

PLATE=2674 MJD=54097 Smooth superflat for sdR−b2−00042258.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

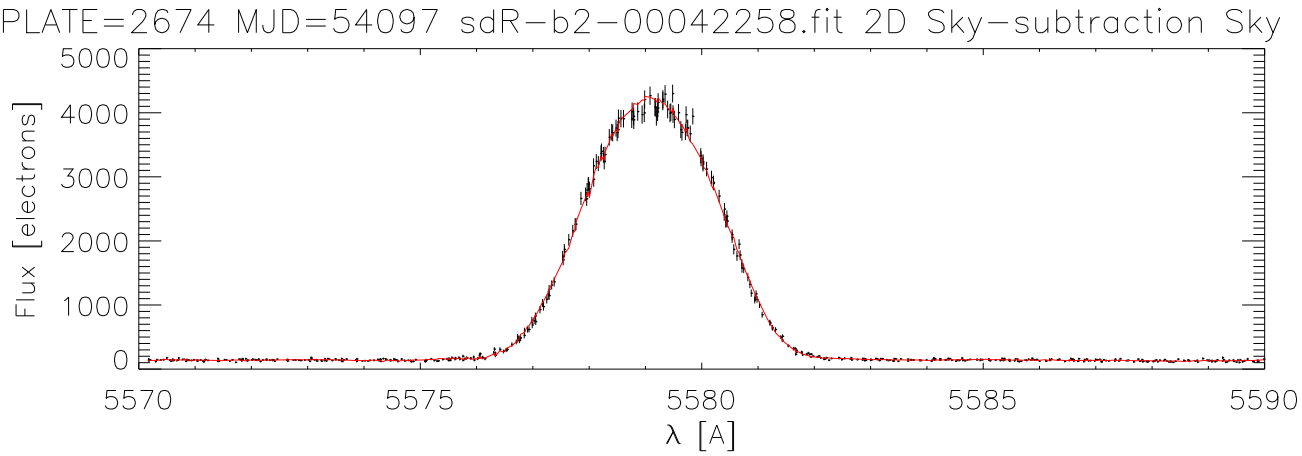

PLATE=2674 MJD=54097 sdR-b2-00042258.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

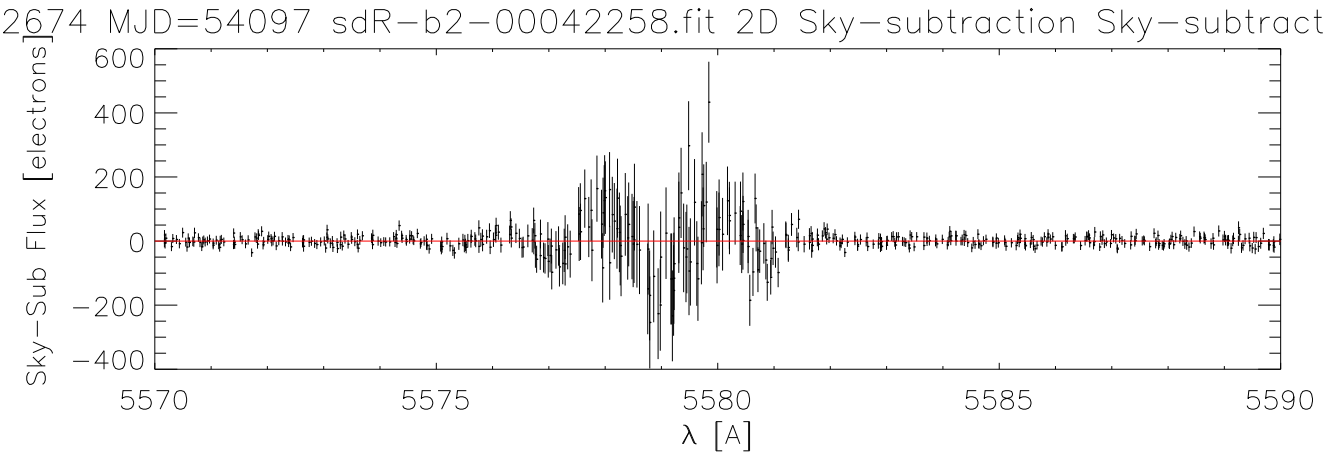

PLATE=2674 MJD=54097 sdR-b2-00042258.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

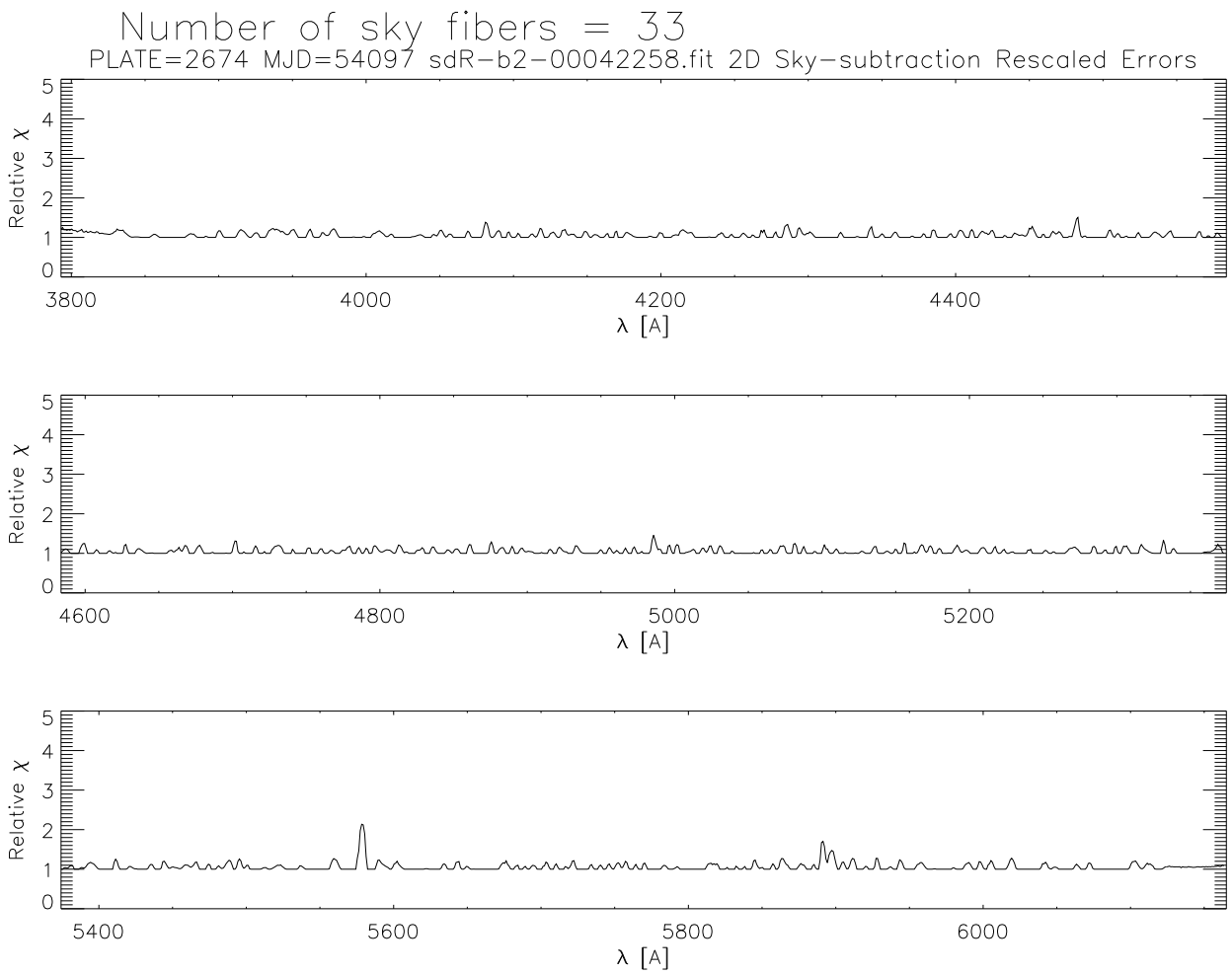

PLATE=2674 MJD=54097 sdR-b2-00042258.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
−200
5570
5575
5580
5585
5590
λ [A]

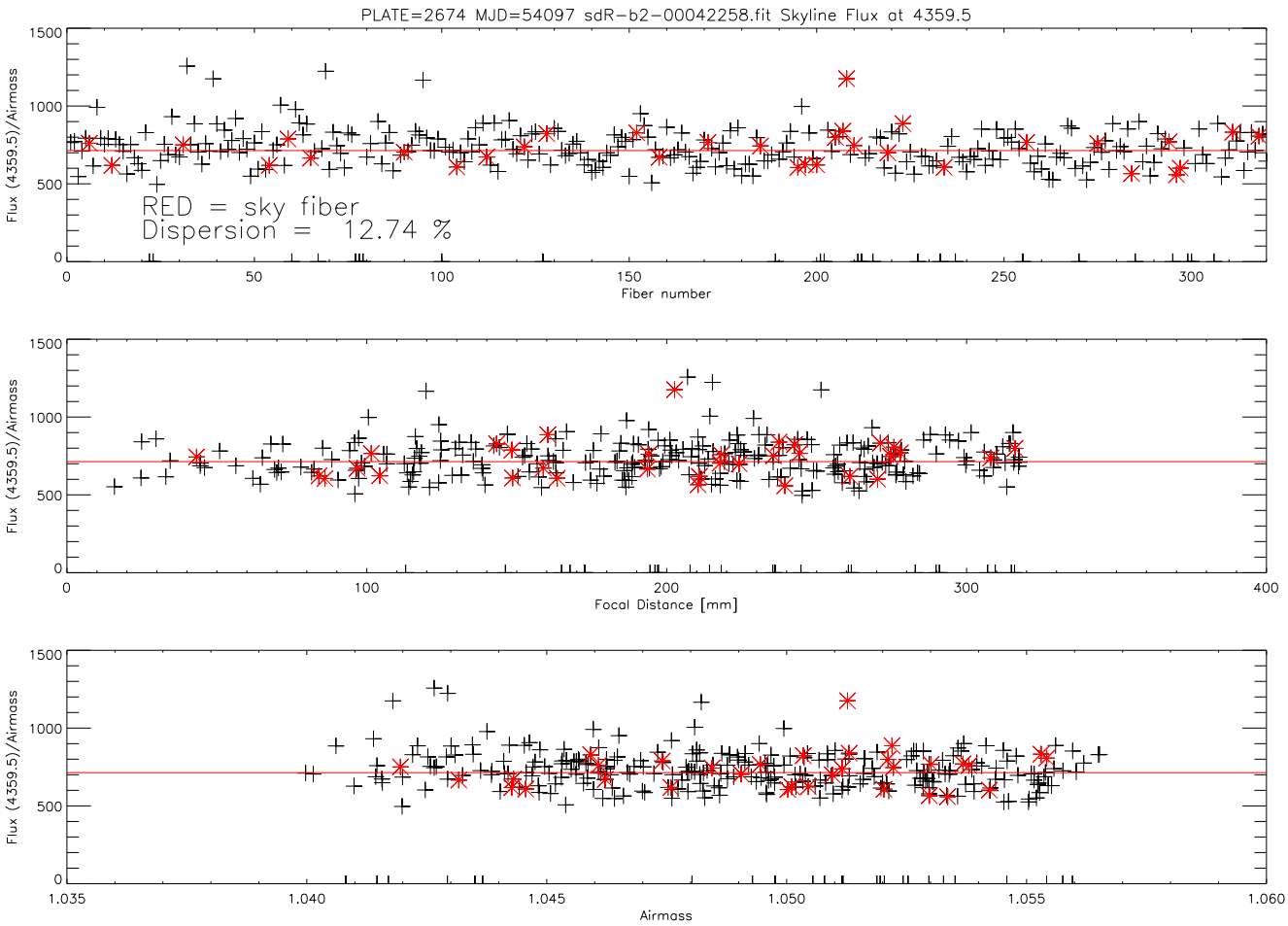

Number of sky fibers = 33
PLATE=2674 MJD=54097 sdR-b2-00042258.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

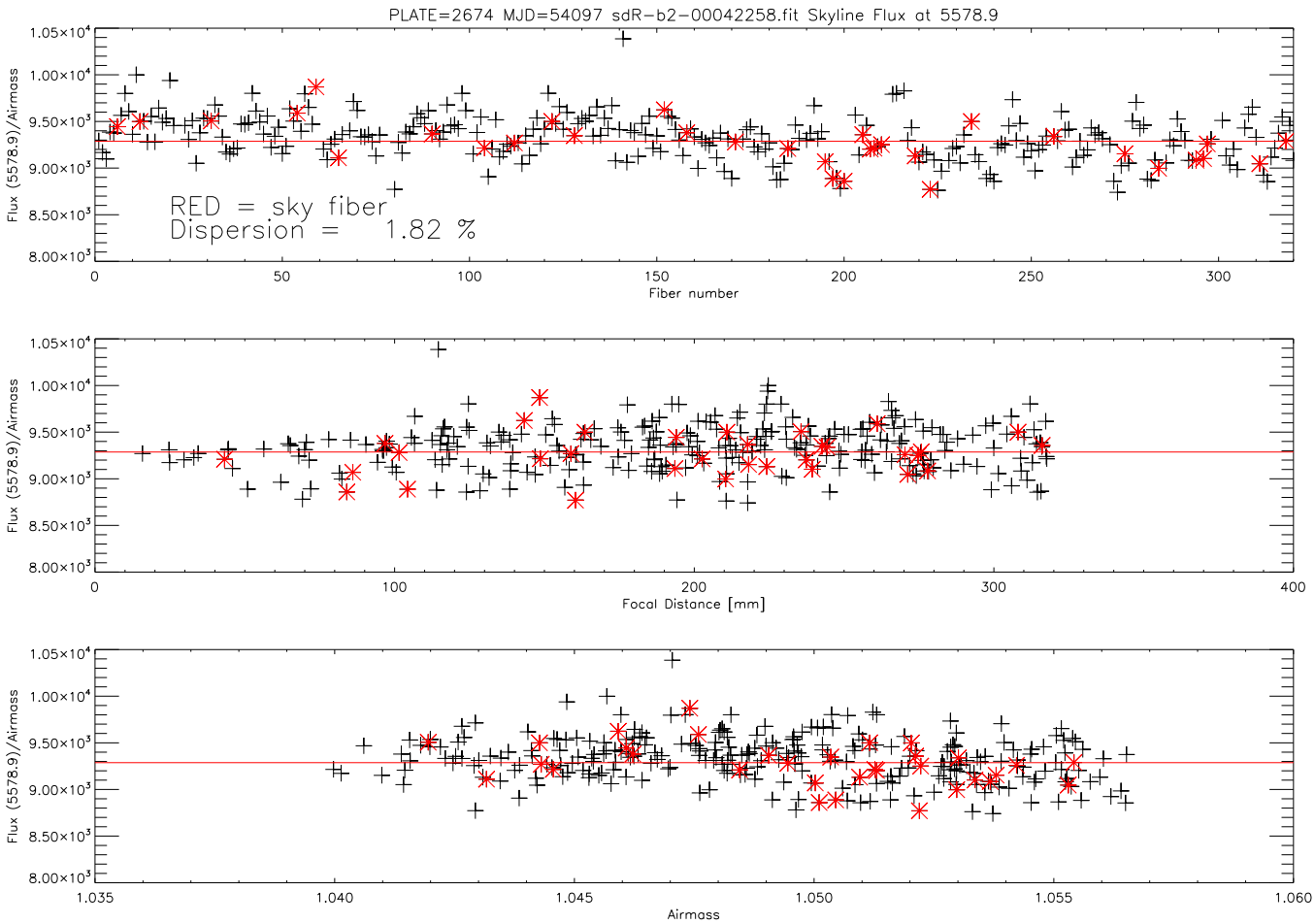

PLATE=2674 MJD=54097 sdR-b2-00042258.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

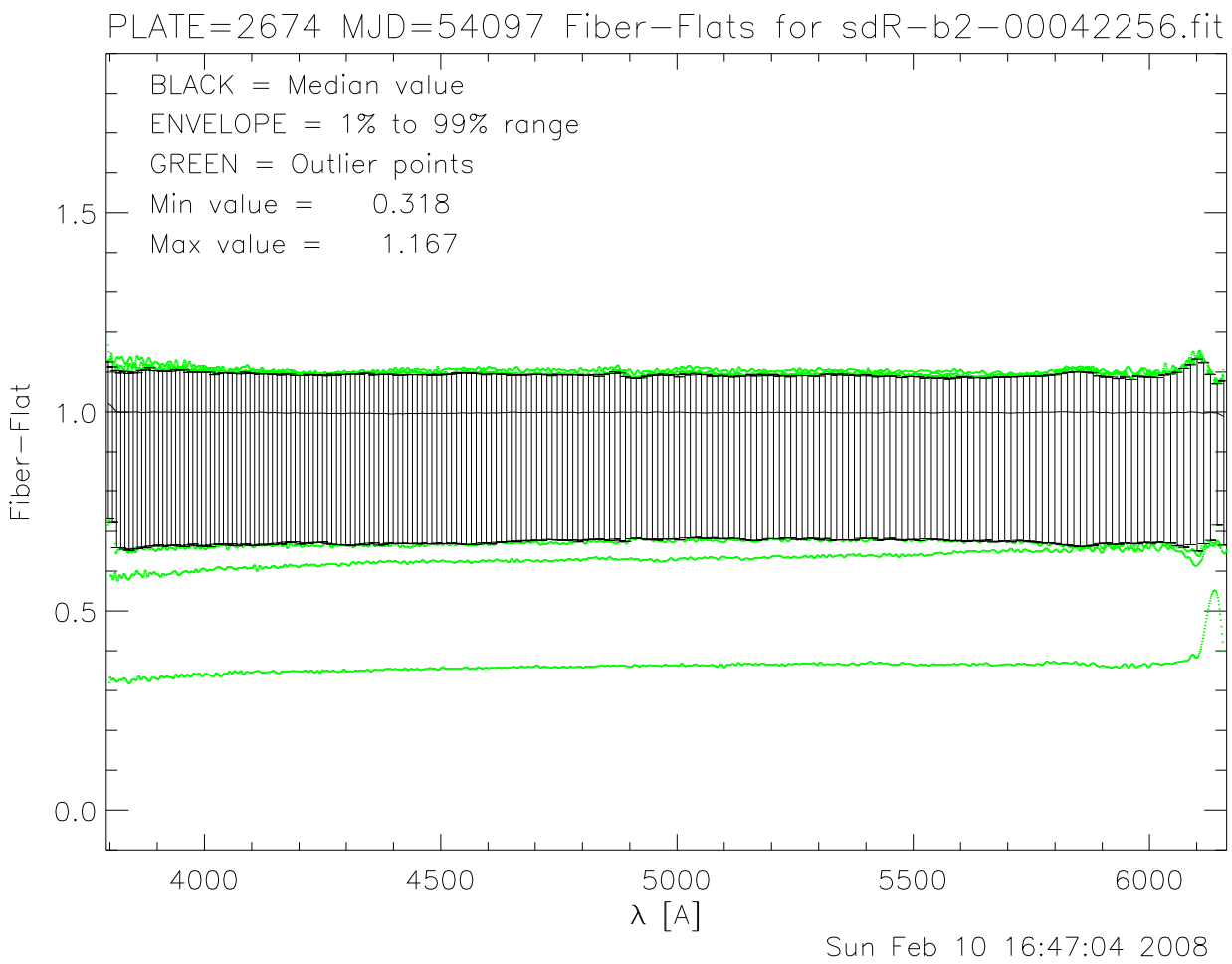

PLATE=2674 MJD=54097 sdR-b2-00042258.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

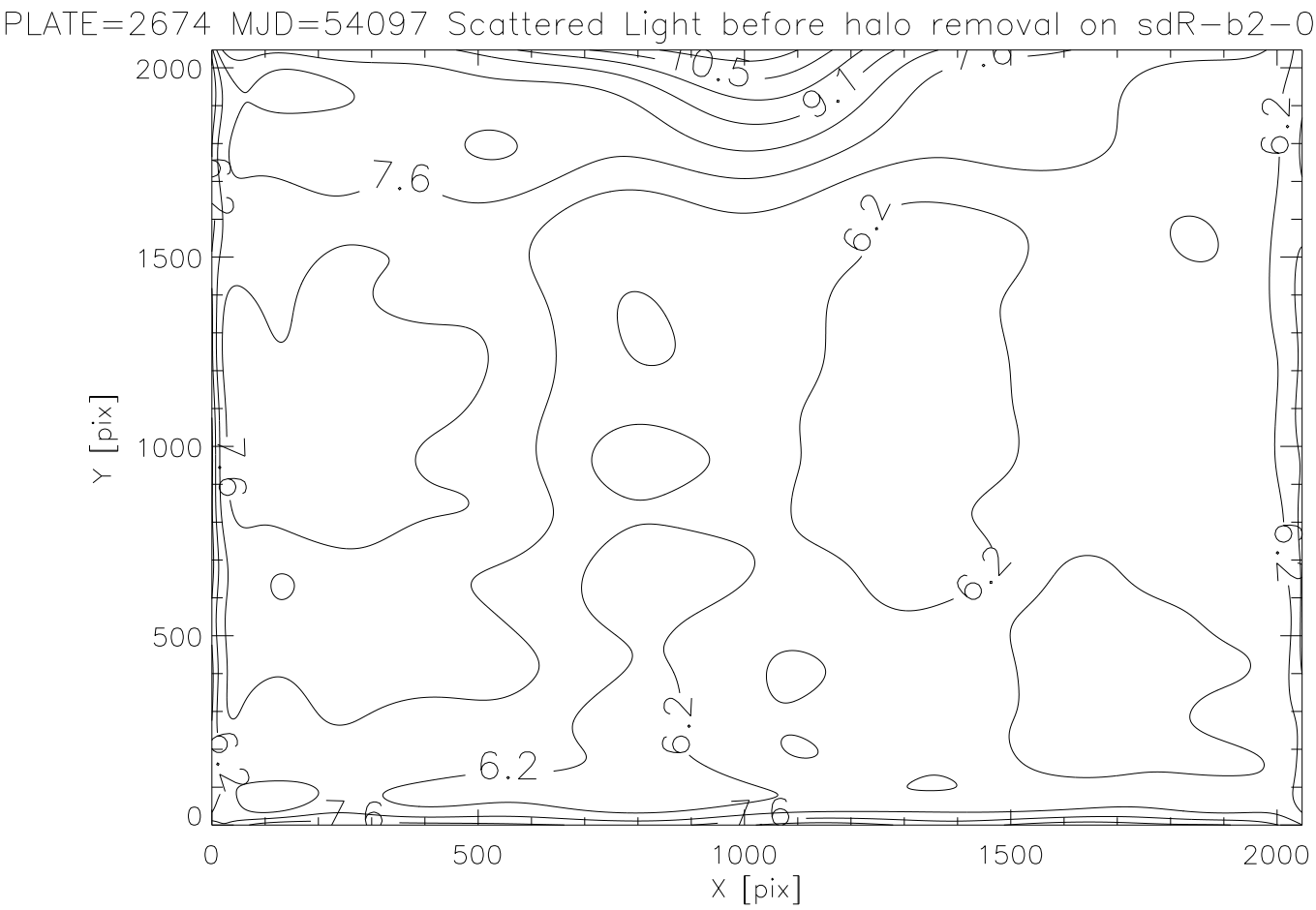

PLATE=2674 MJD=54097 sdR-b2-00042258.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

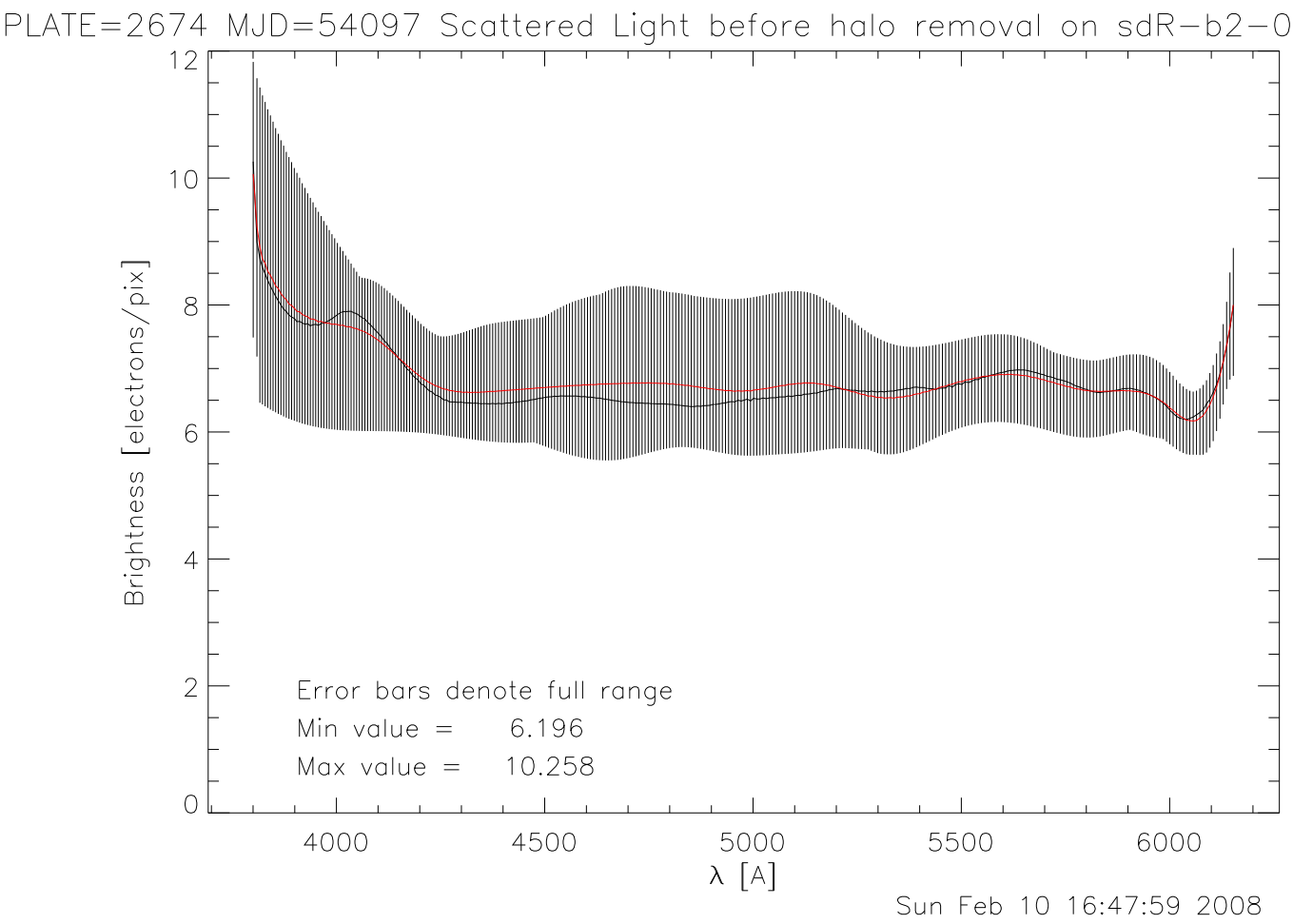

Number of sky fibers = 33
PLATE=2674 MJD=54097 sdR-b2-00042258.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

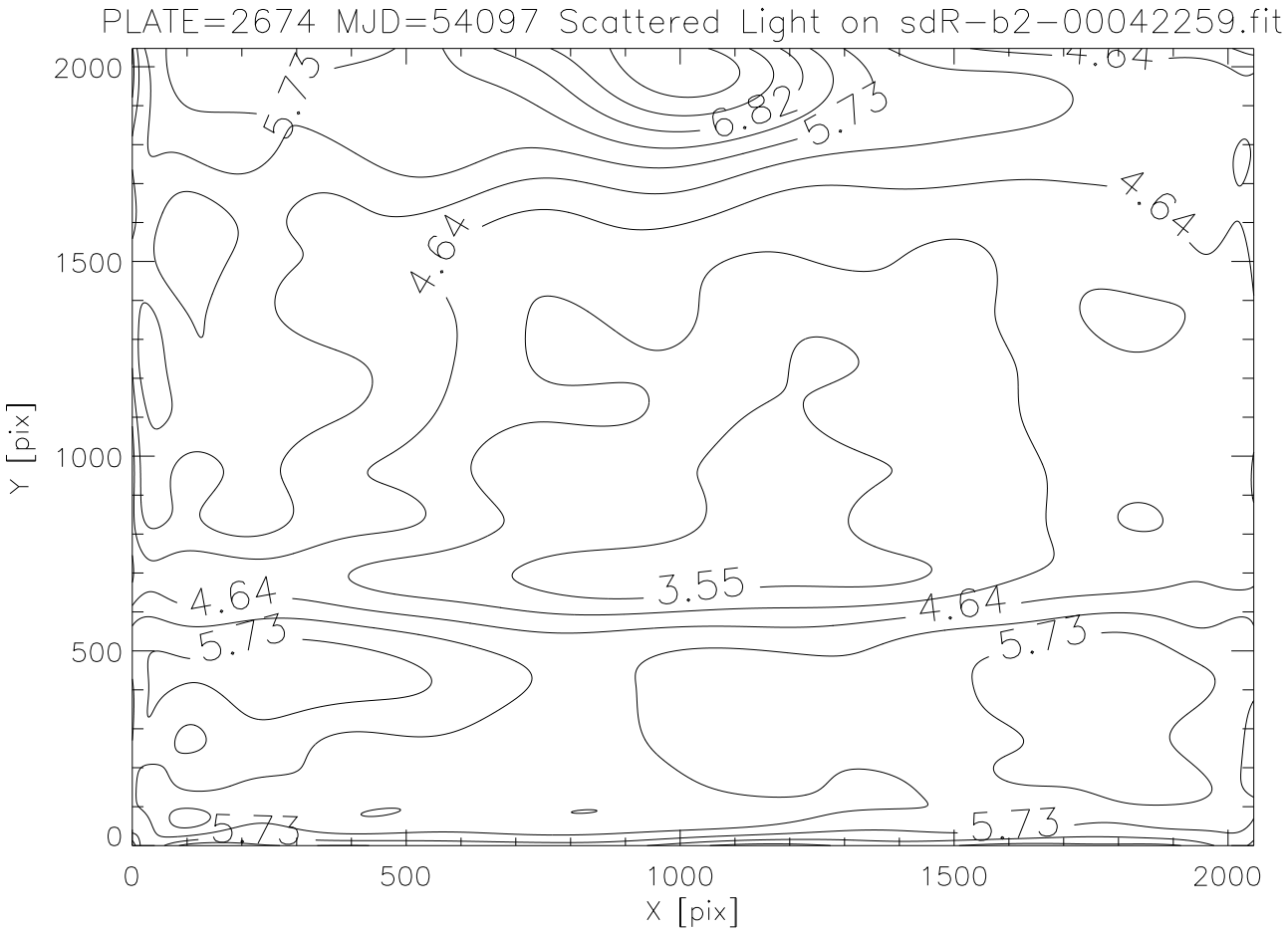

PLATE=2674 MJD=54097 sdR-b2-00042258.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 12.74 %
Fiber number
Focal Distance [mm]
Airmass

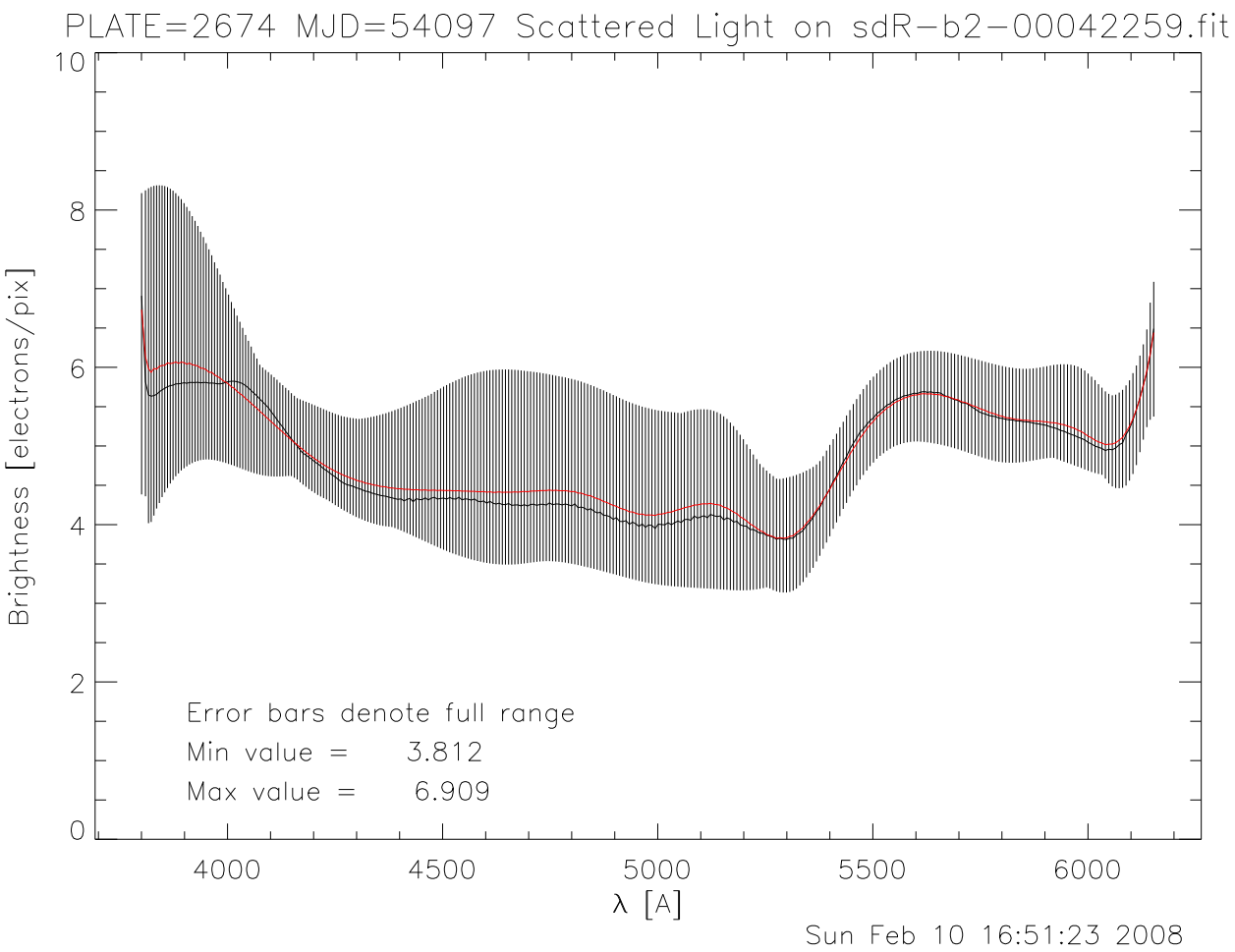

PLATE=2674 MJD=54097 sdR-b2-00042258.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.82 %
Fiber number
Focal Distance [mm]
Airmass

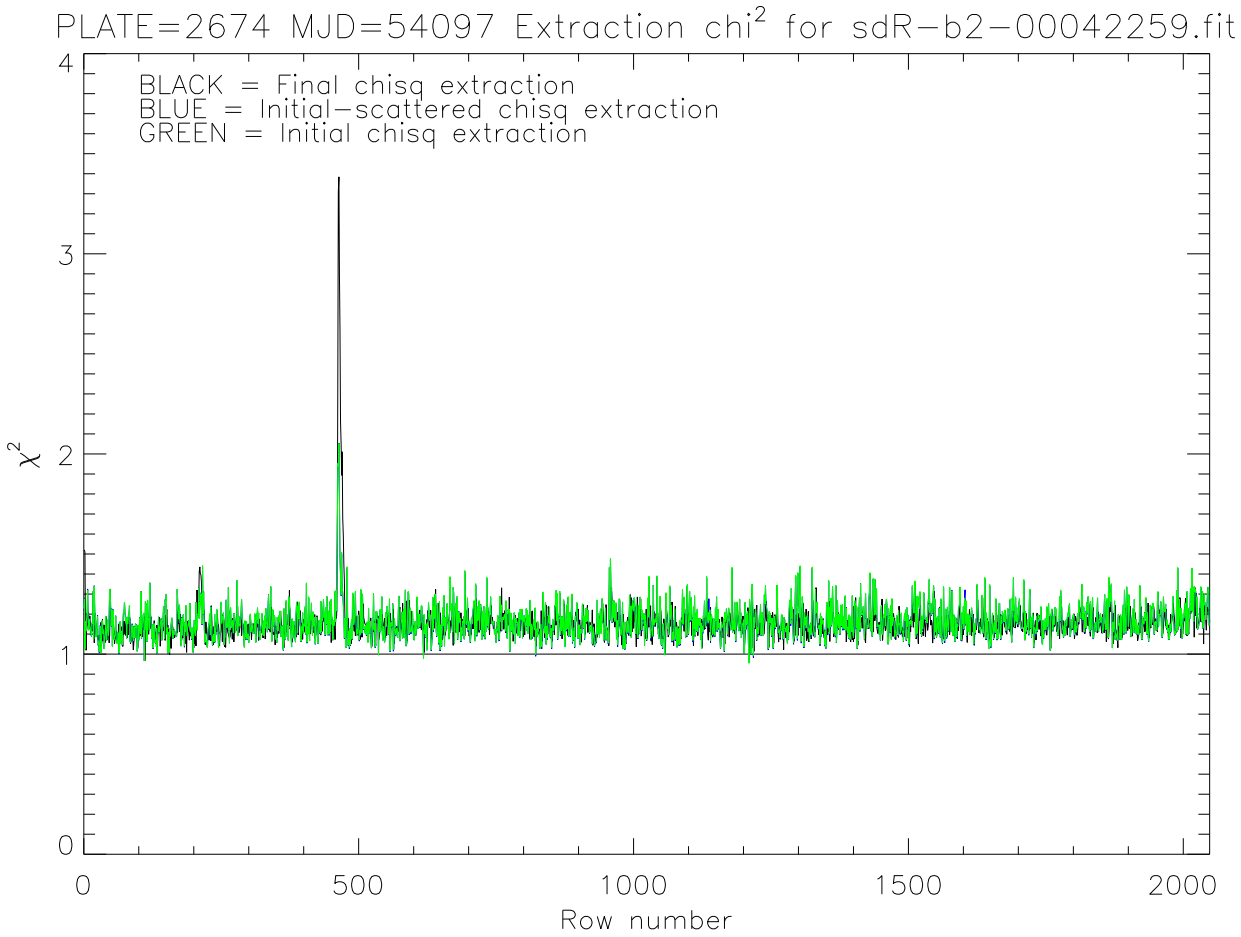

PLATE=2674 MJD=54097 Fiber-Flats for sdR-b2-00042256.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.318
Max value = 1.167
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sun Feb 10 16:47:04 2008

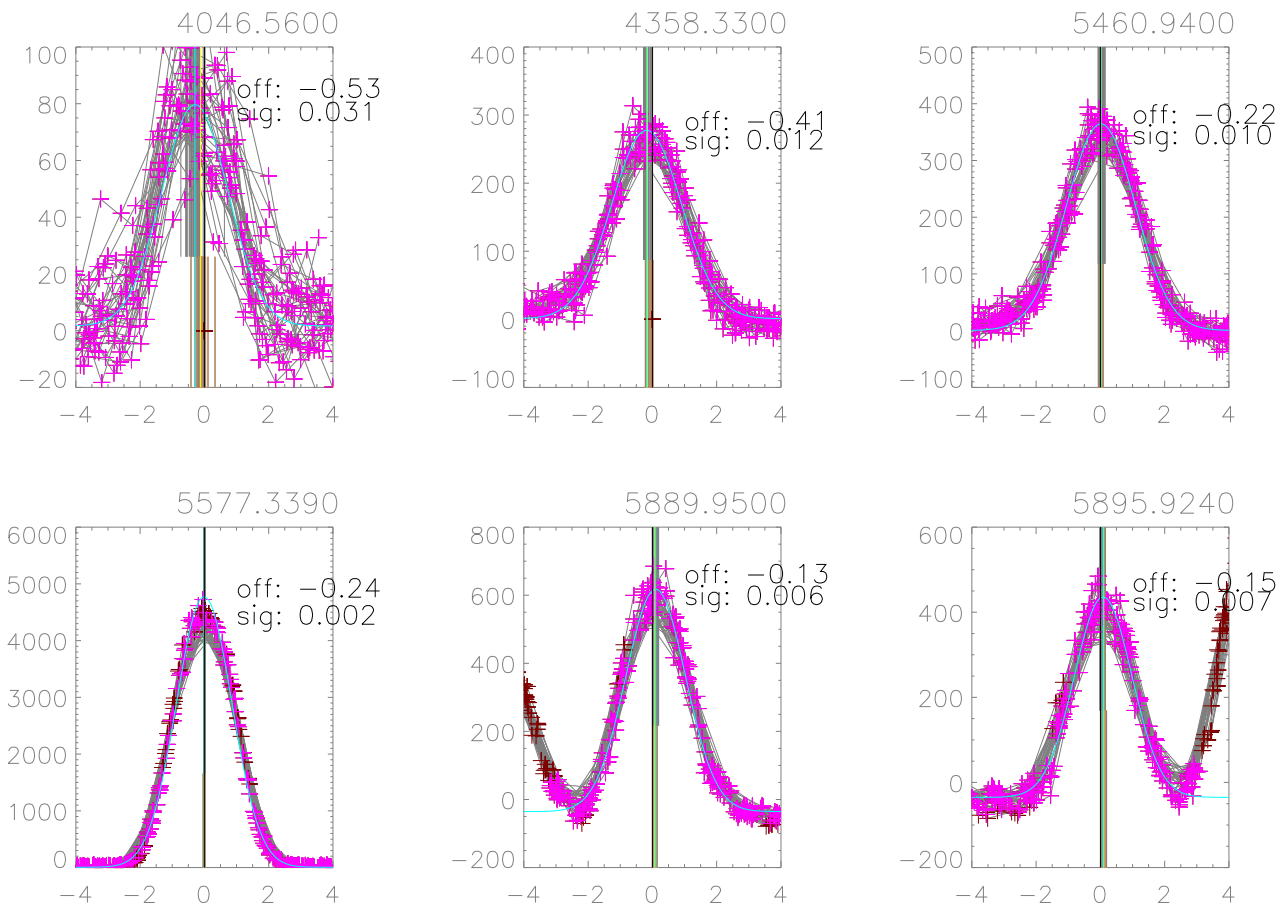

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR-b2-00042259.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
10.5
9.1
7.6
6.2
7.9

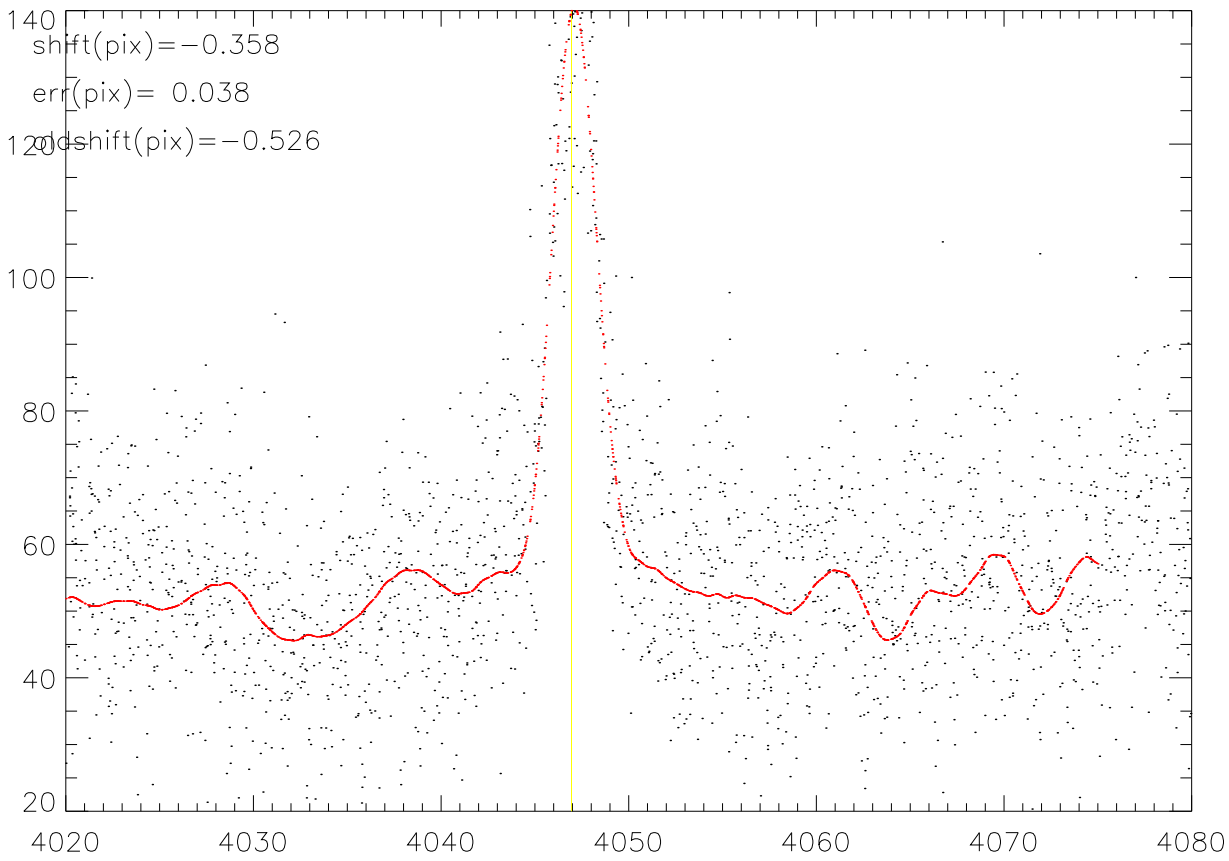

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR-b2-00042259.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.196
Max value = 10.258
Sun Feb 10 16:47:59 2008

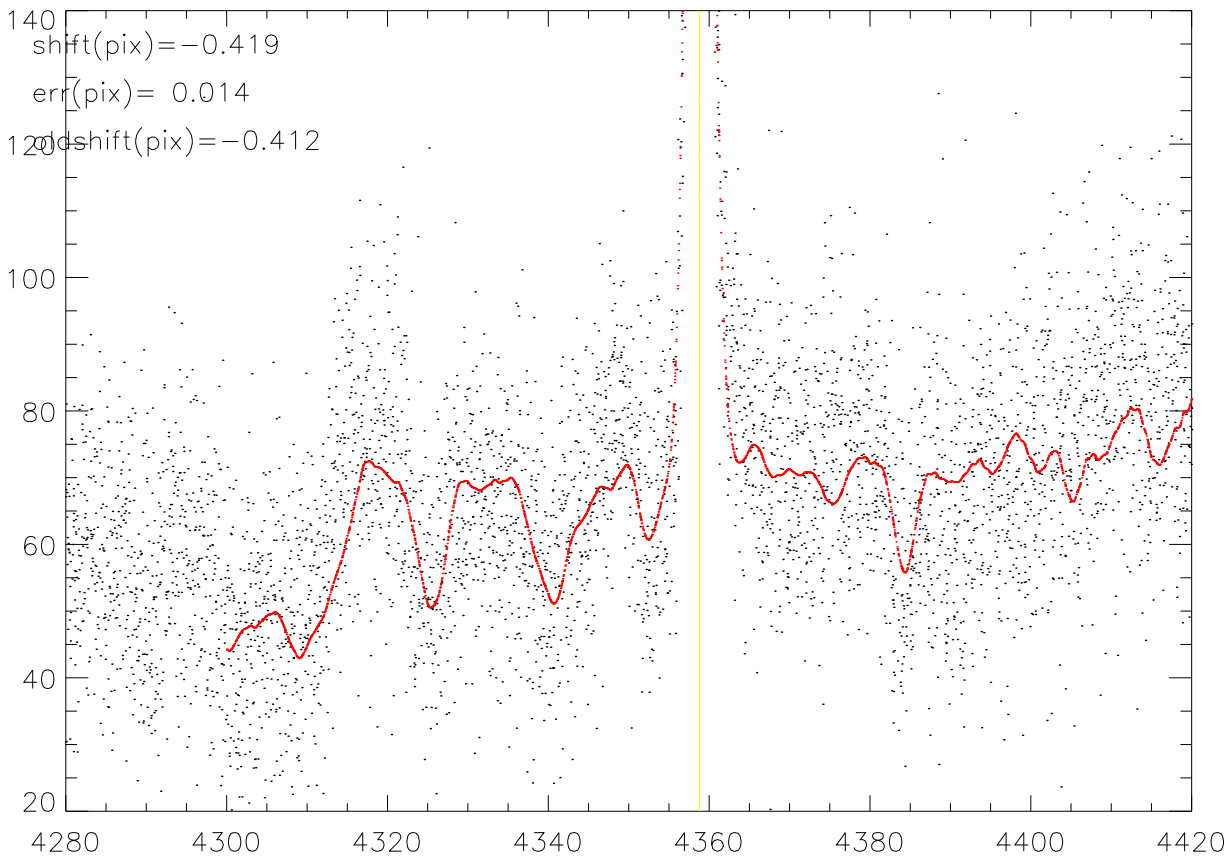

PLATE=2674 MJD=54097 Scattered Light on sdR-b2-00042259.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
6.82
5.73
4.64
3.55

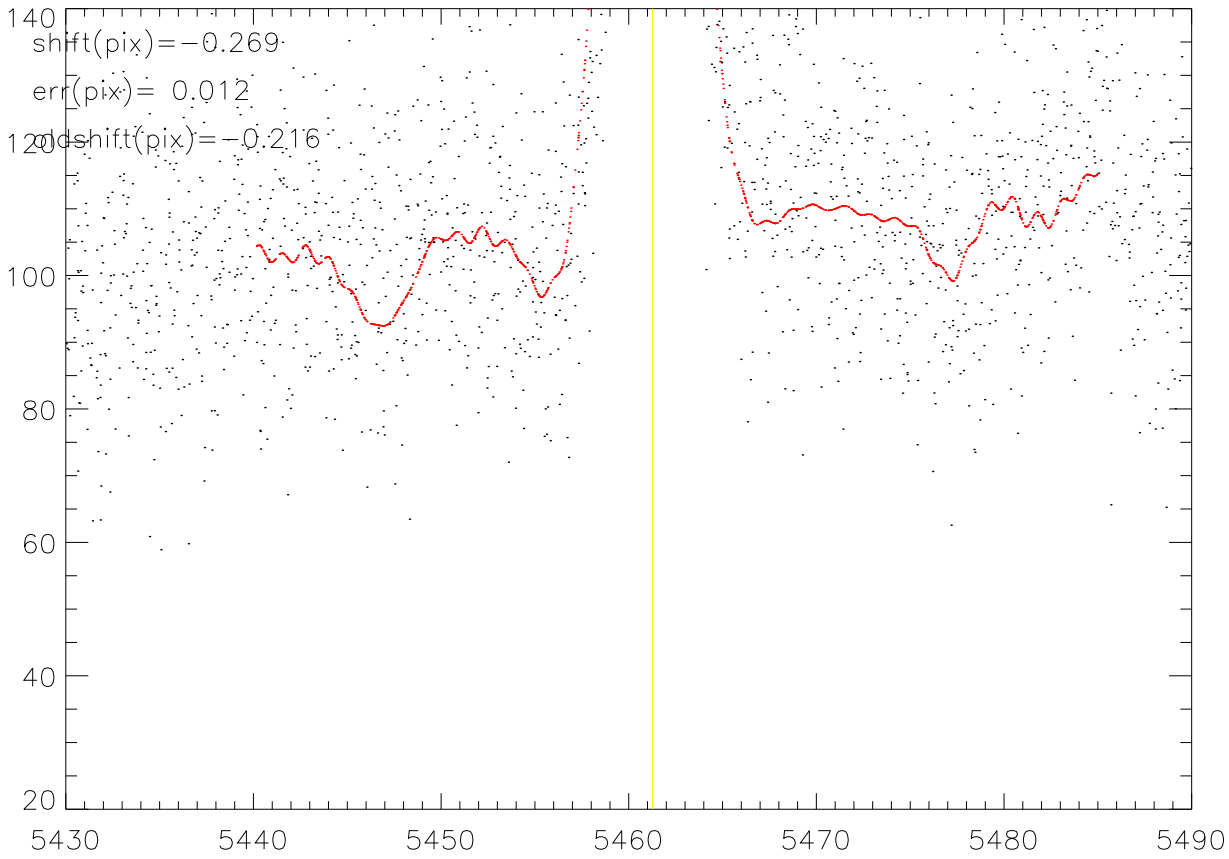

PLATE=2674 MJD=54097 Scattered Light on sdR-b2-00042259.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.812
Max value = 6.909
Sun Feb 10 16:51:23 2008

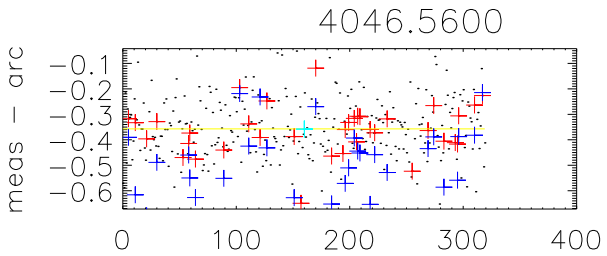

PLATE=2674 MJD=54097 Extraction chi^2 for sdR-b2-00042259.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

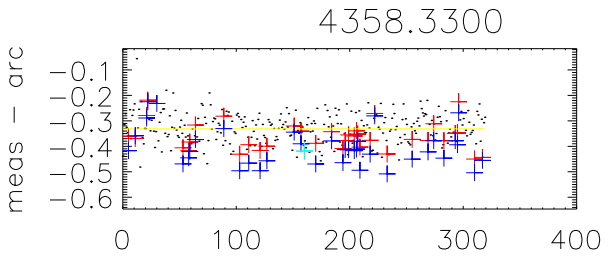

4046.5600
off: −0.53
sig: 0.031
4358.3300
off: −0.41
sig: 0.012
5460.9400
off: −0.22
sig: 0.010
5577.3390
off: −0.24
sig: 0.002
5889.9500
off: −0.13
sig: 0.006
5895.9240
off: −0.15
sig: 0.007

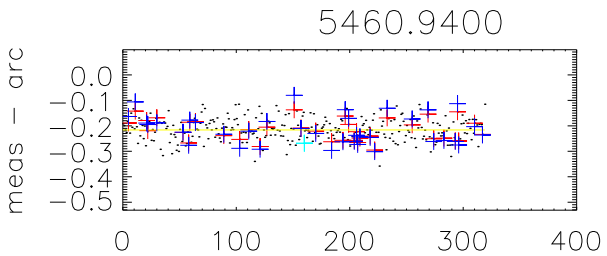

shift(pix)=−0.358
err(pix)= 0.038
oldshift(pix)=−0.526
140
120
100
80
60
40
20
4020
4030
4040
4050
4060
4070
4080

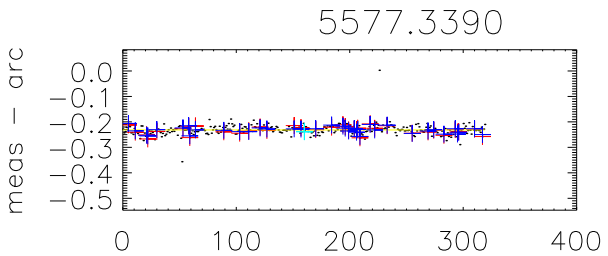

shift(pix)=−0.419
err(pix)= 0.014
oldshift(pix)=−0.412
140
120
100
80
60
40
20
4280
4300
4320
4340
4360
4380
4400
4420

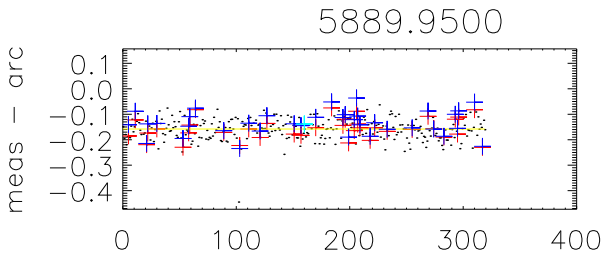

shift(pix)=−0.269
err(pix)= 0.012
oldshift(pix)=−0.216
140
120
100
80
60
40
20
5430
5440
5450
5460
5470
5480
5490

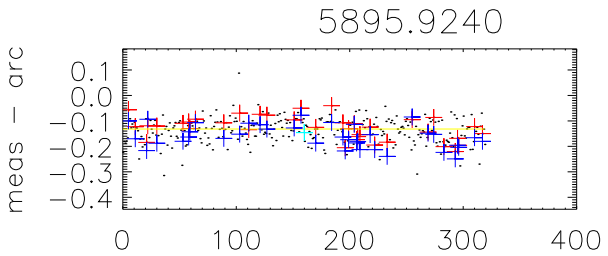

4046.5600
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

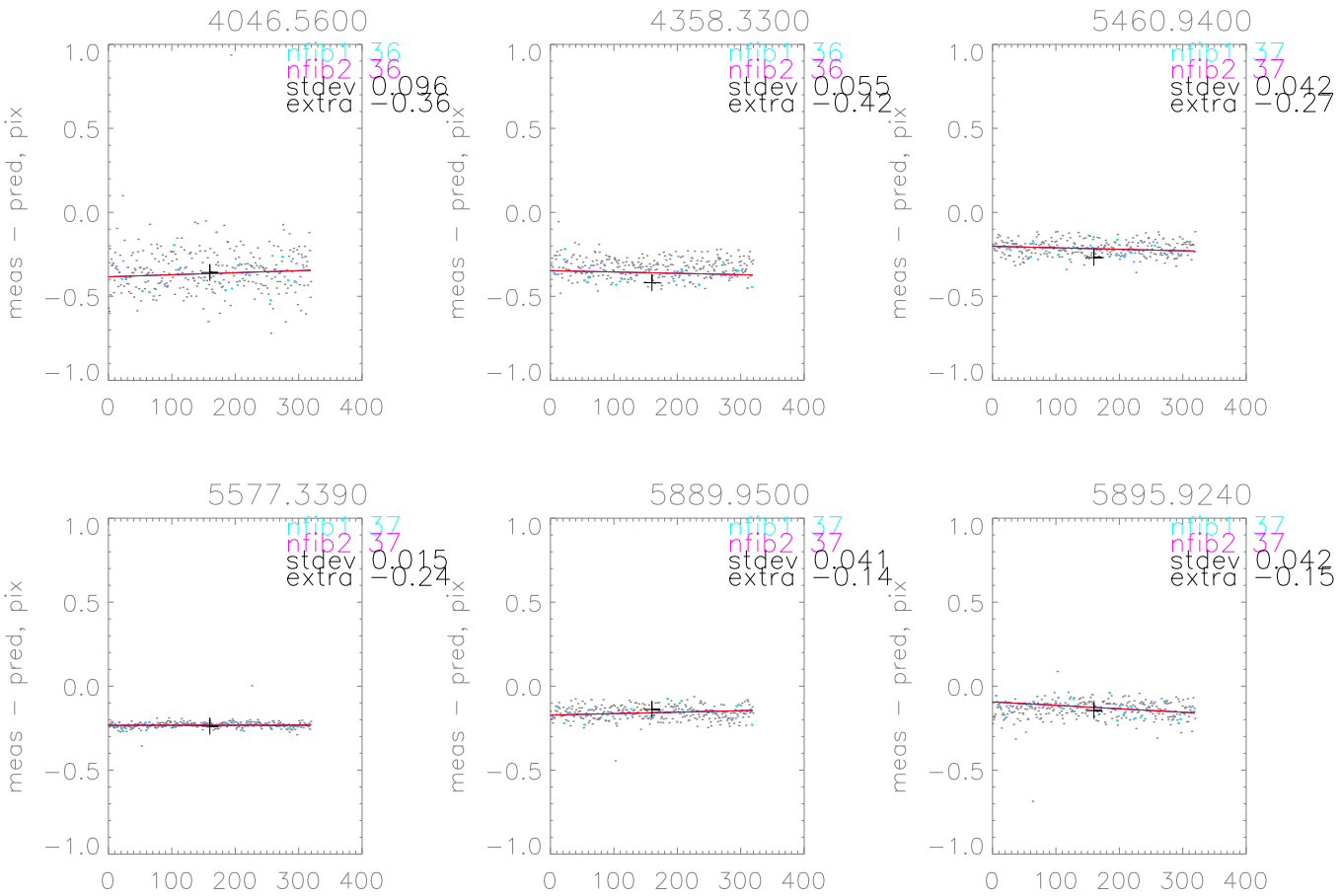

4358.3300
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

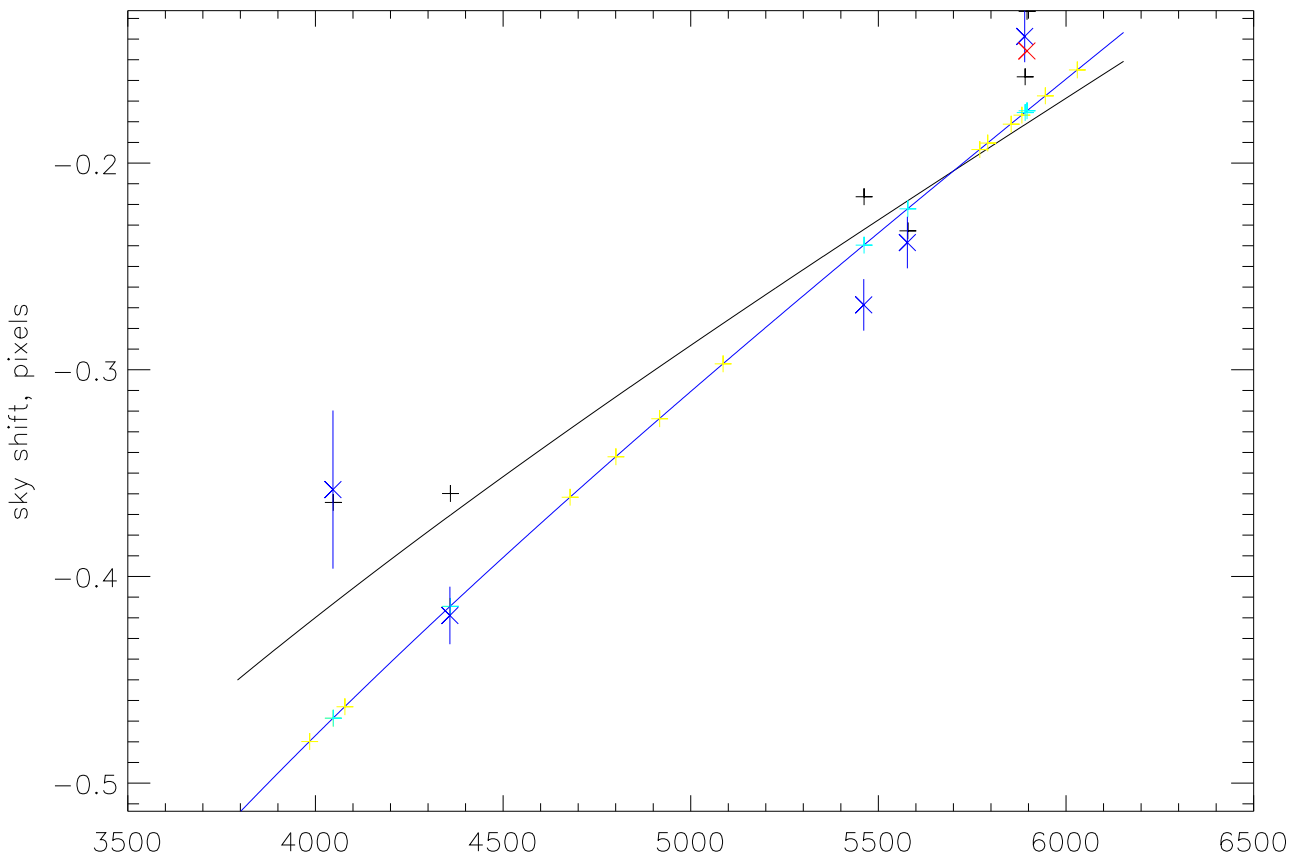

5460.9400
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

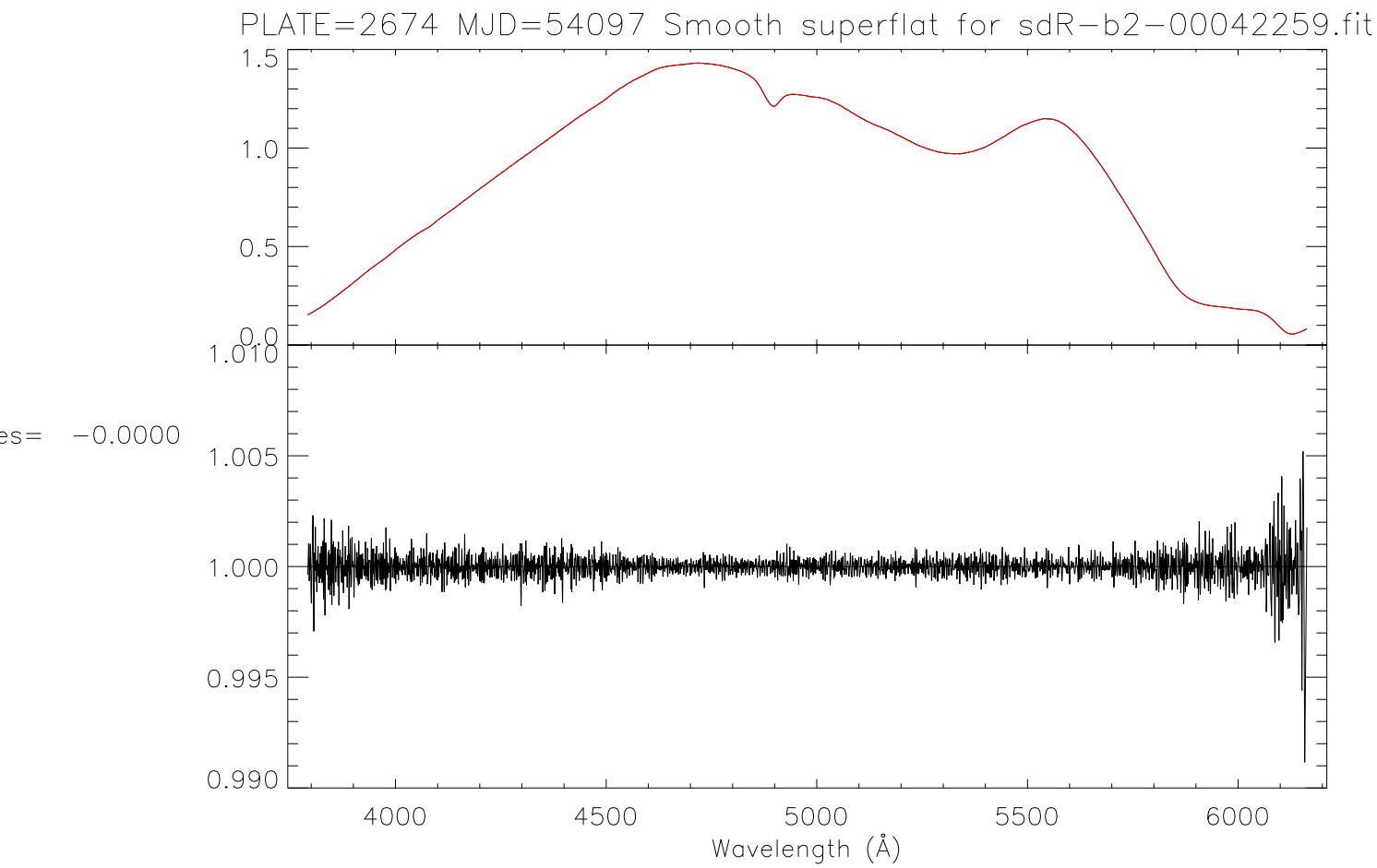

5577.3390
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400


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

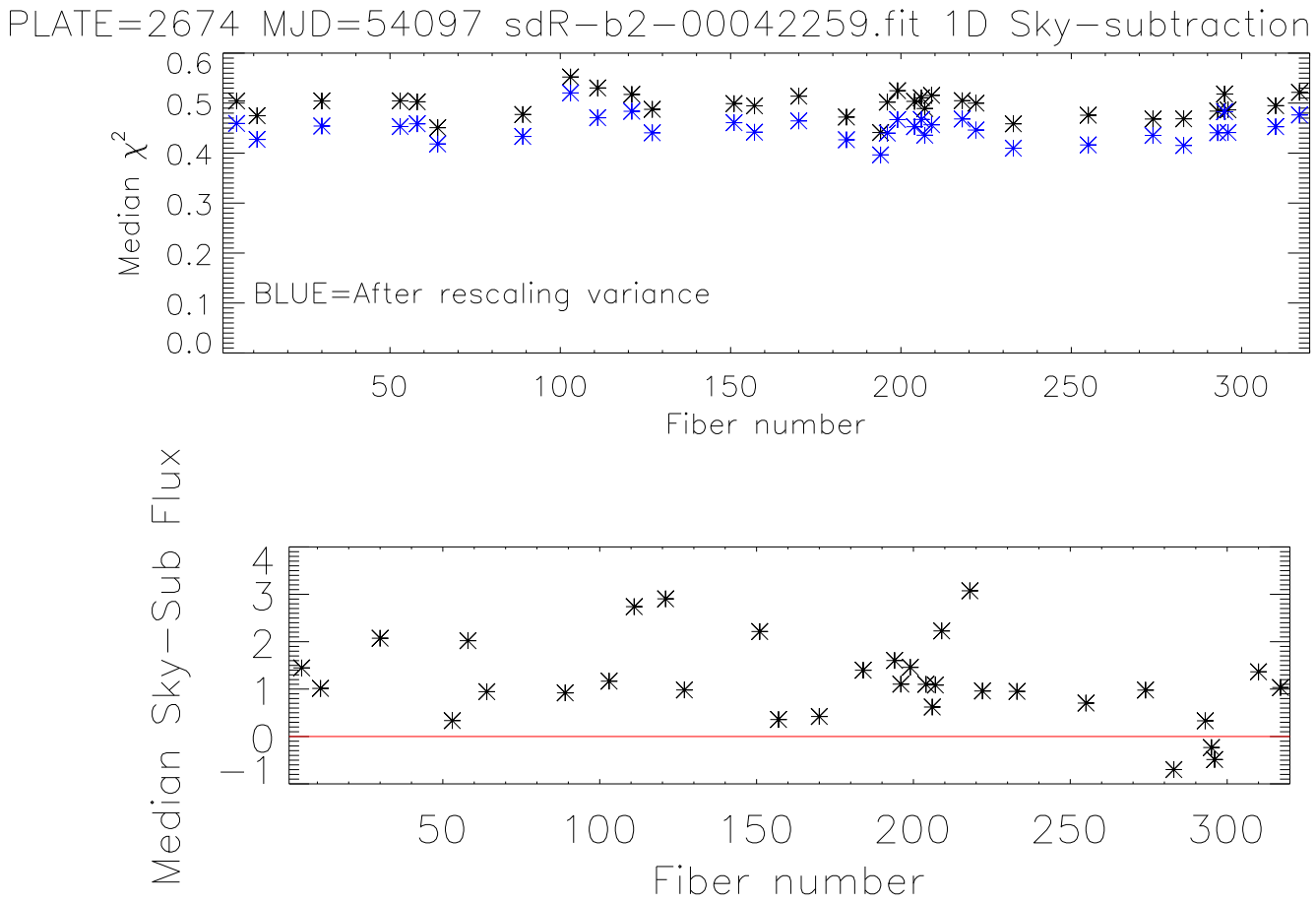

5895.9240
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

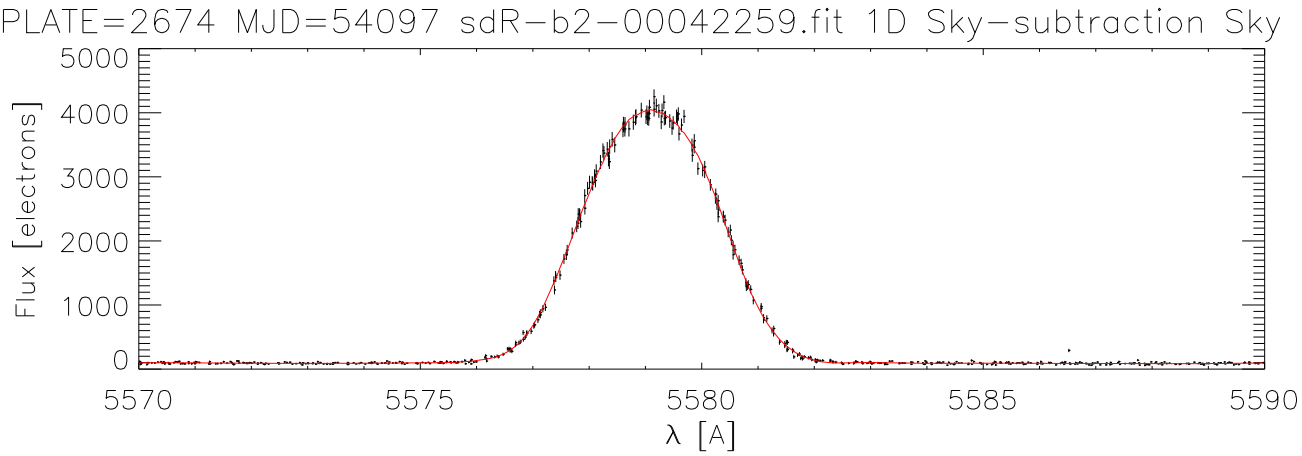

4046.5600
nfib1 36
nfib2 36
stdev 0.096
extra −0.36
4358.3300
nfib1 36
nfib2 36
stdev 0.055
extra −0.42
5460.9400
nfib1 37
nfib2 37
stdev 0.042
extra −0.27
5577.3390
nfib1 37
nfib2 37
stdev 0.015
extra −0.24
5889.9500
nfib1 37
nfib2 37
stdev 0.041
extra −0.14
5895.9240
nfib1 37
nfib2 37
stdev 0.042
extra −0.15
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

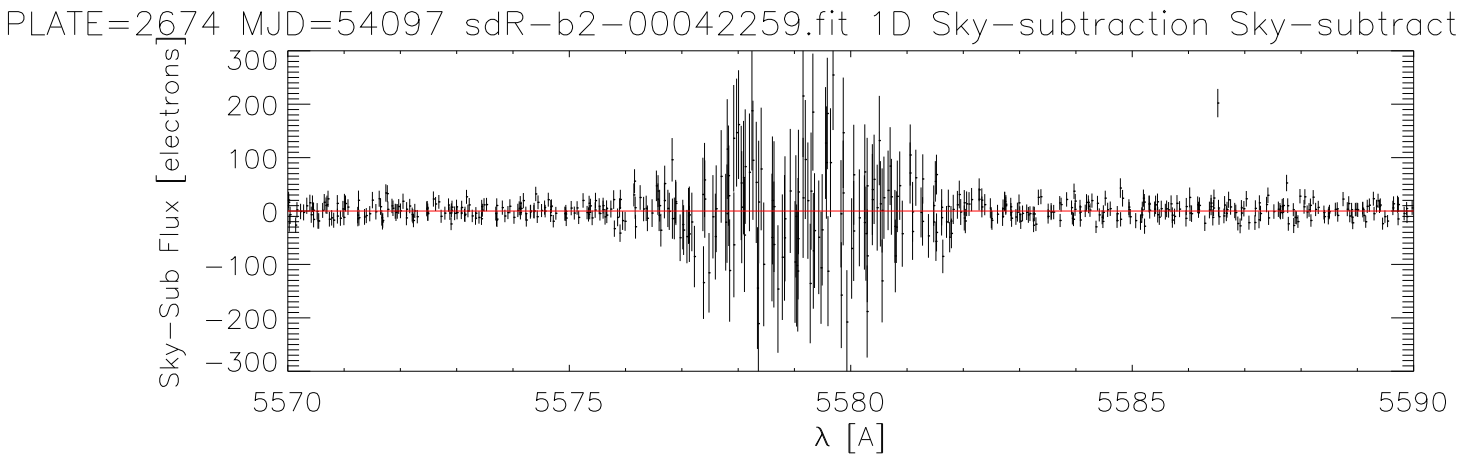

sky shift, pixels
−0.2
−0.3
−0.4
−0.5
3500
4000
4500
5000
5500
6000
6500

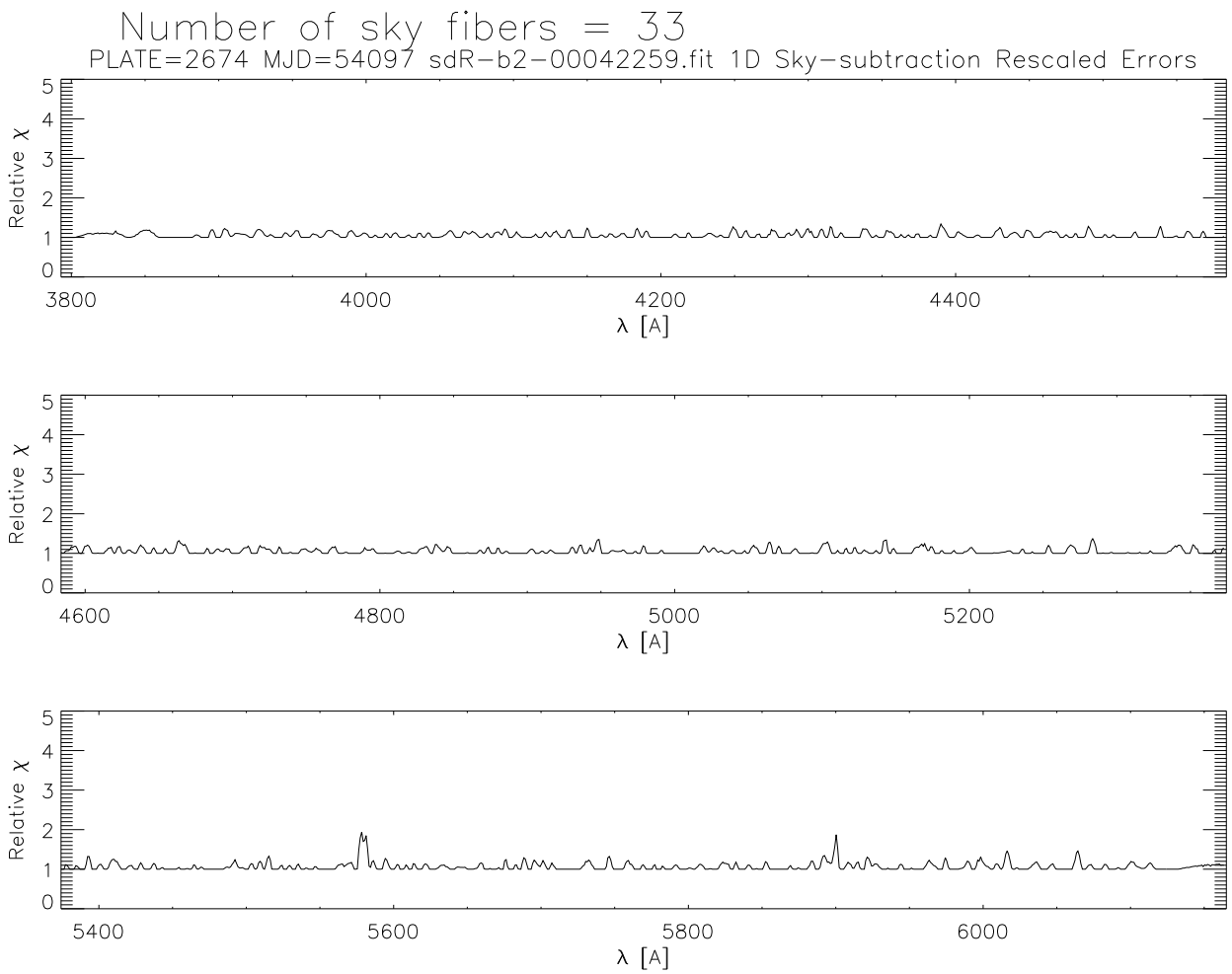

PLATE=2674 MJD=54097 Smooth superflat for sdR-b2-00042259.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

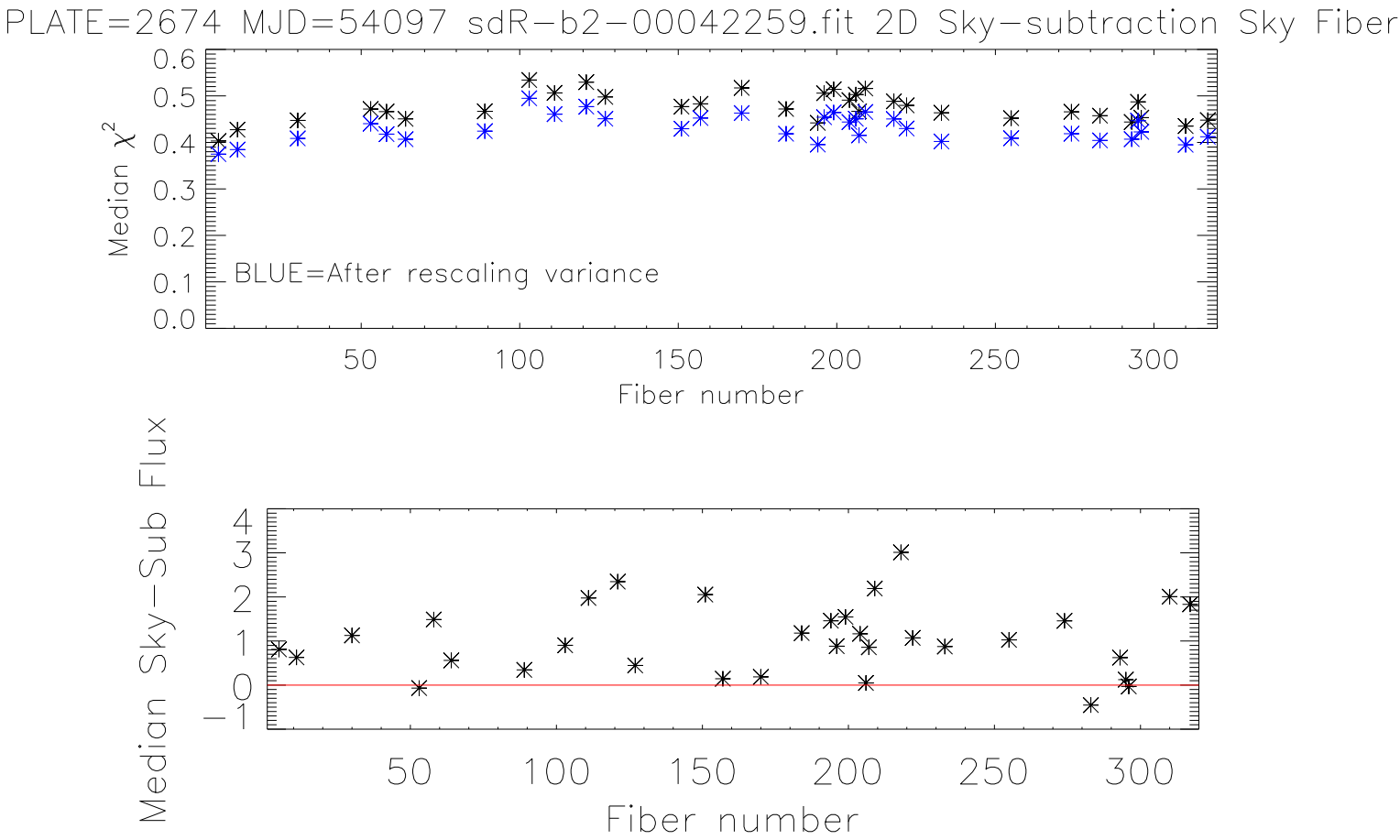
es= −0.0000

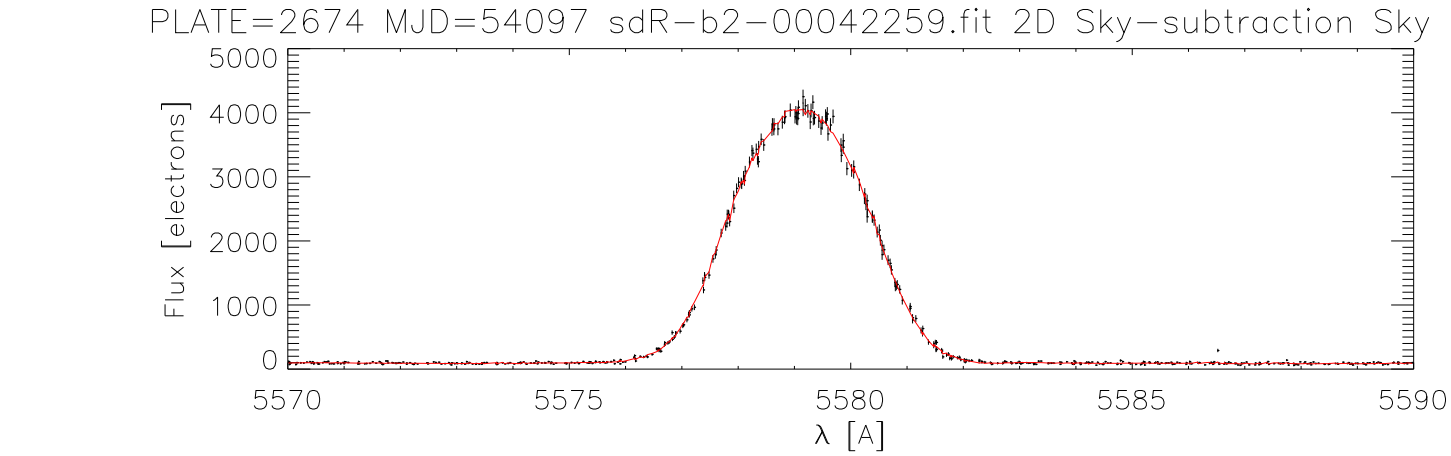

PLATE=2674 MJD=54097 sdR-b2-00042259.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

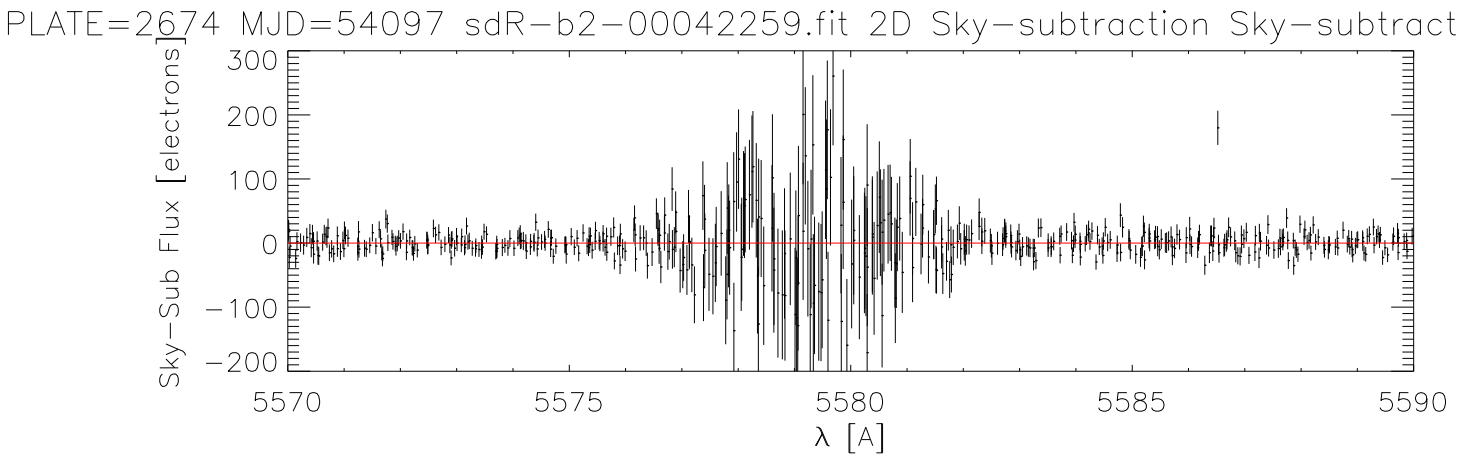

PLATE=2674 MJD=54097 sdR-b2-00042259.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

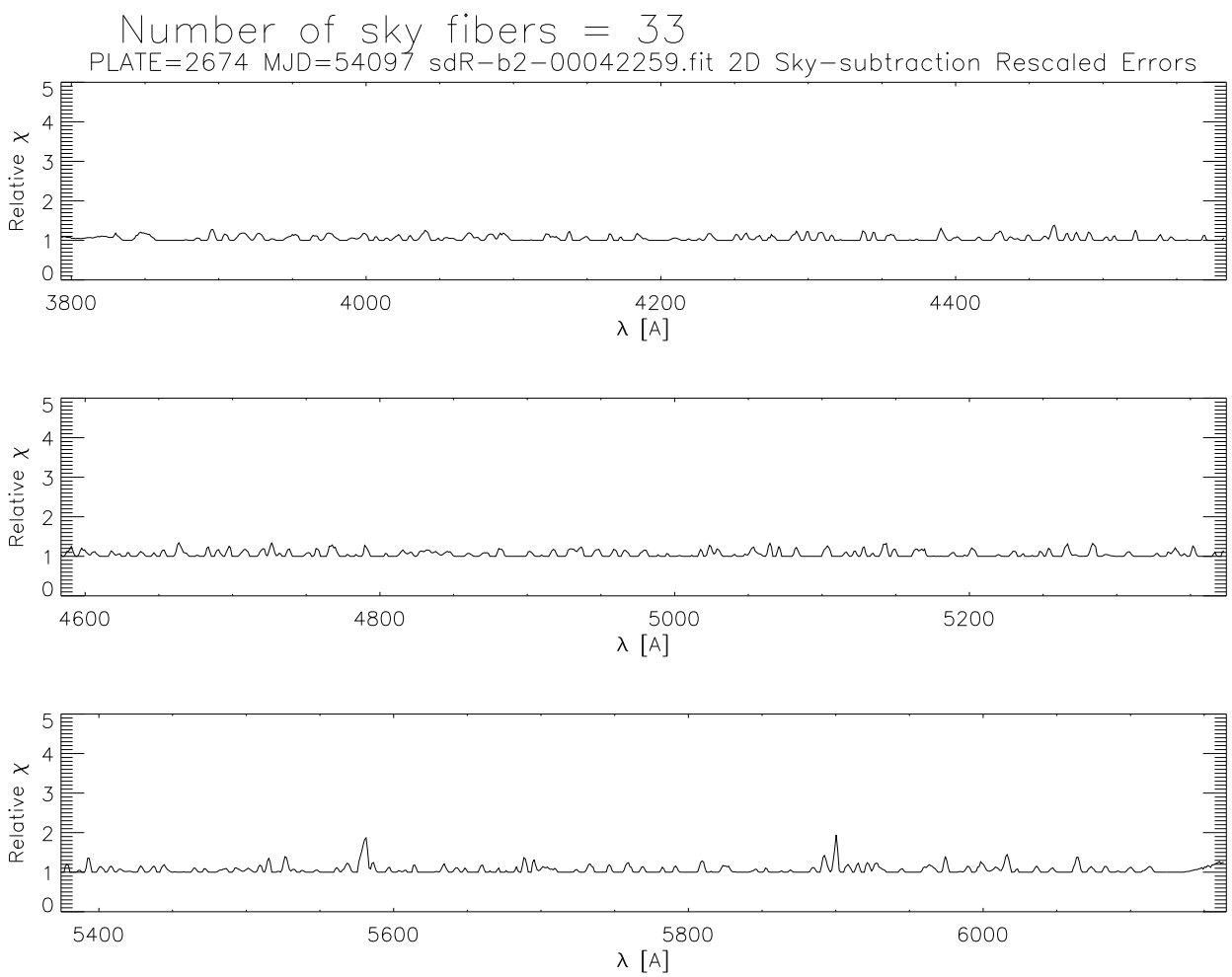

PLATE=2674 MJD=54097 sdR-b2-00042259.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

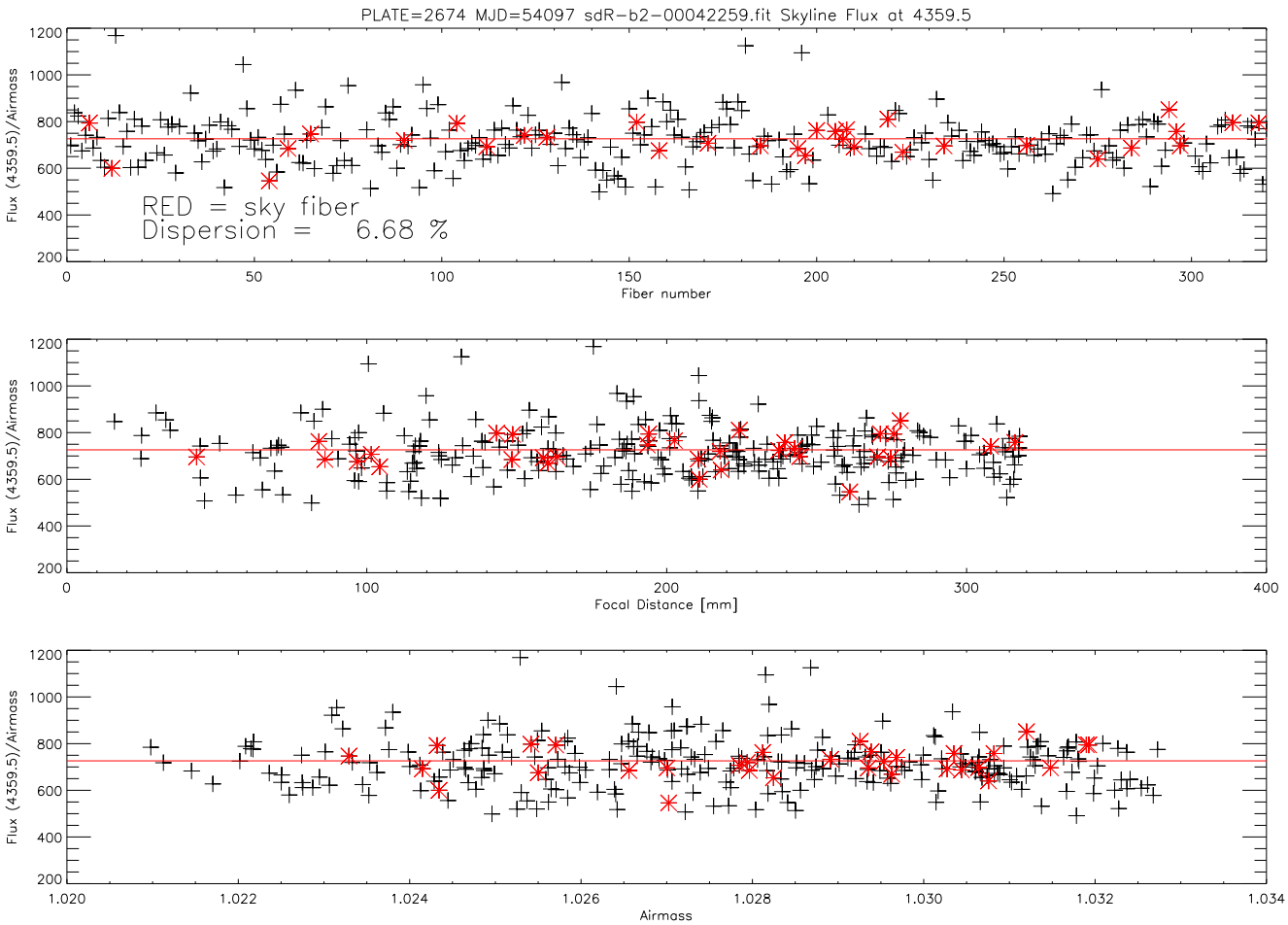

Number of sky fibers = 33
PLATE=2674 MJD=54097 sdR-b2-00042259.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

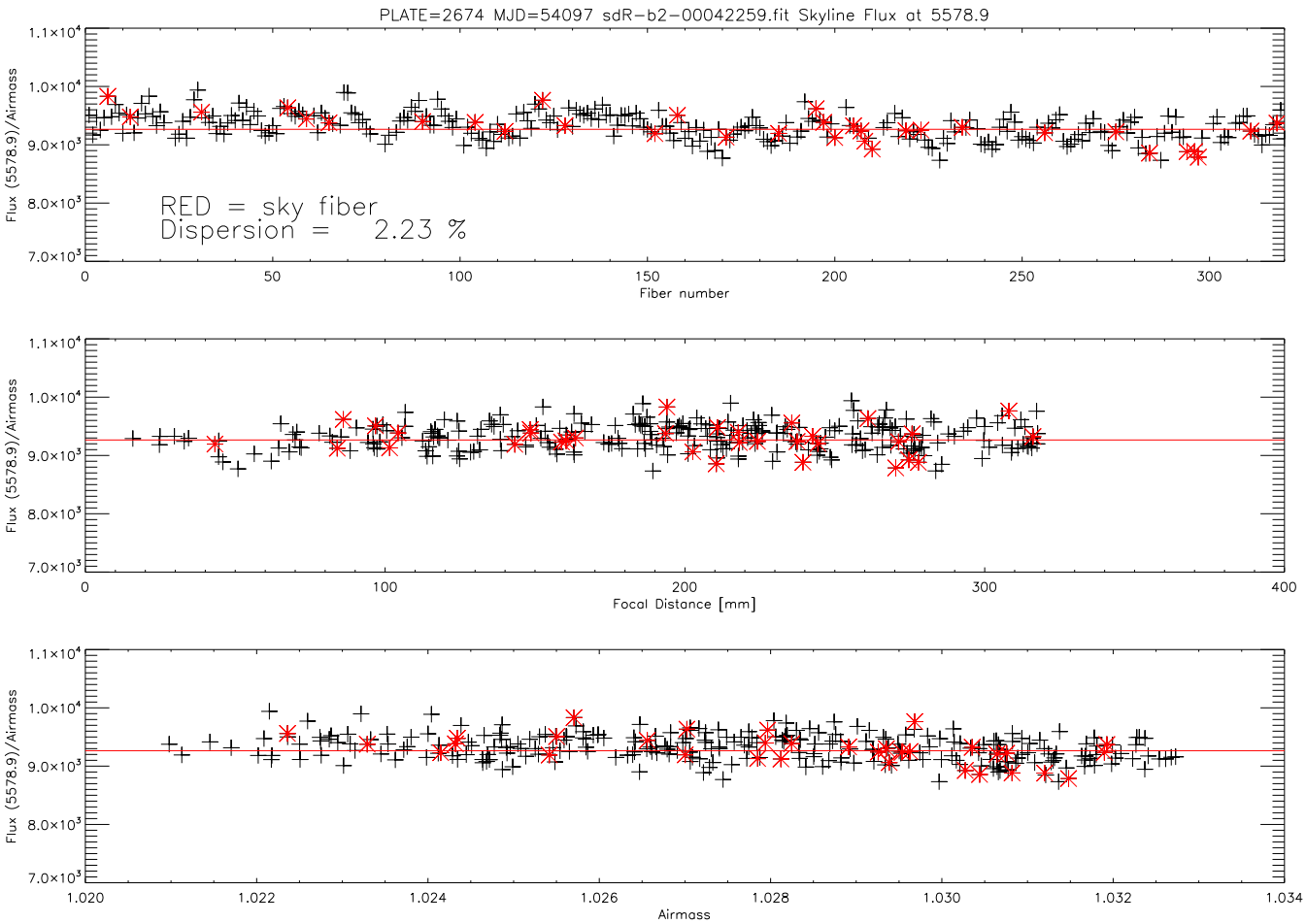

PLATE=2674 MJD=54097 sdR-b2-00042259.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

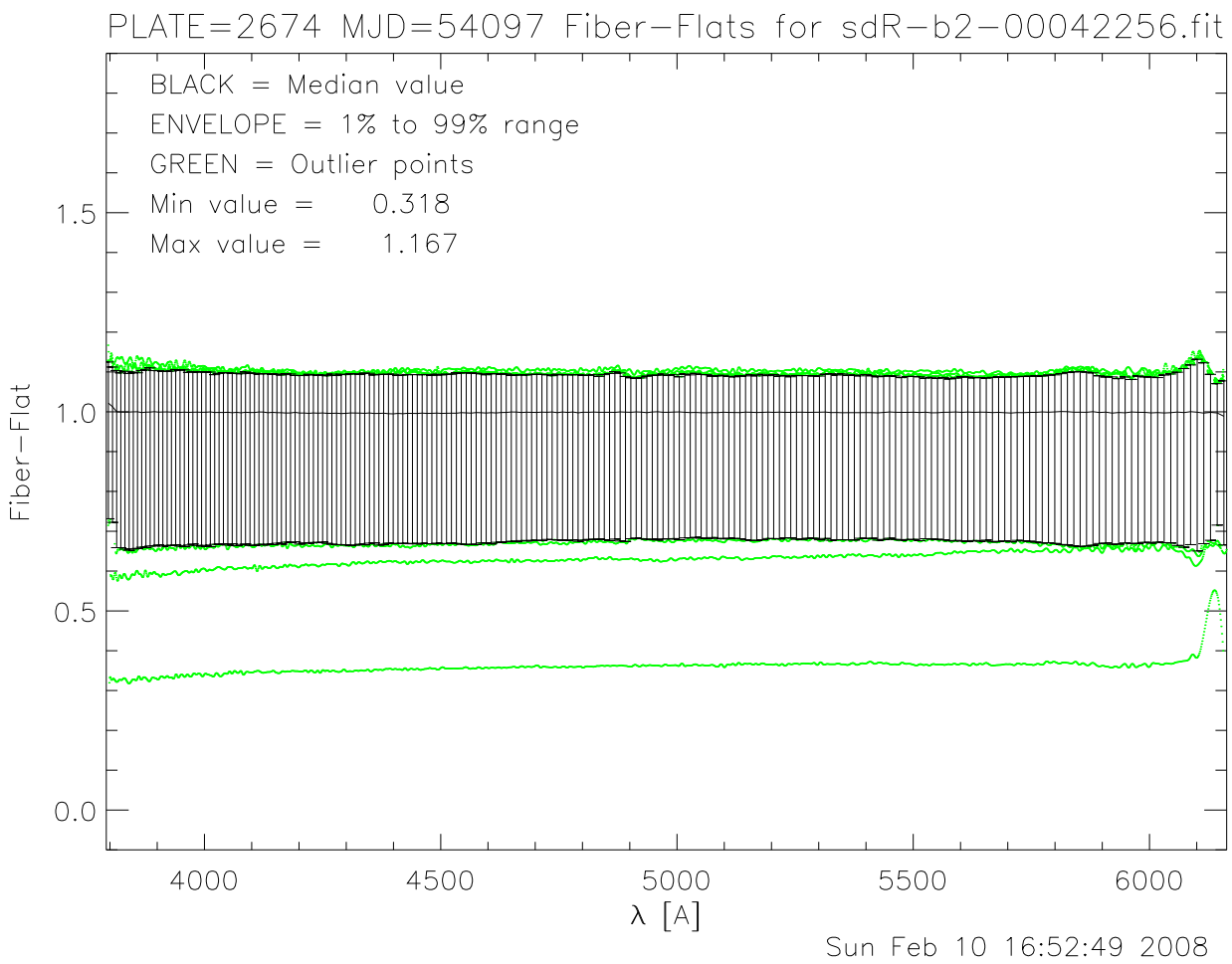

PLATE=2674 MJD=54097 sdR-b2-00042259.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

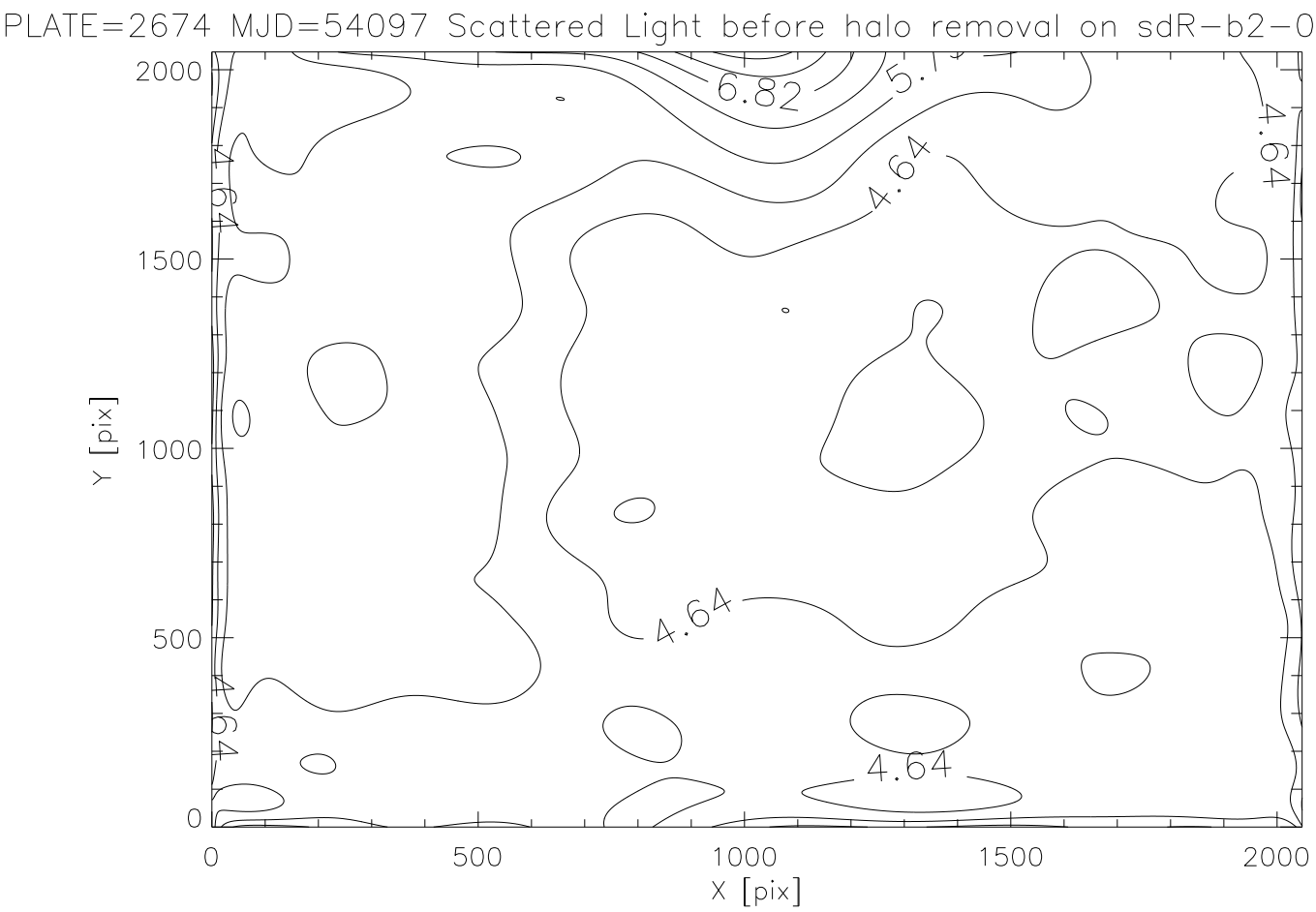

PLATE=2674 MJD=54097 sdR-b2-00042259.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

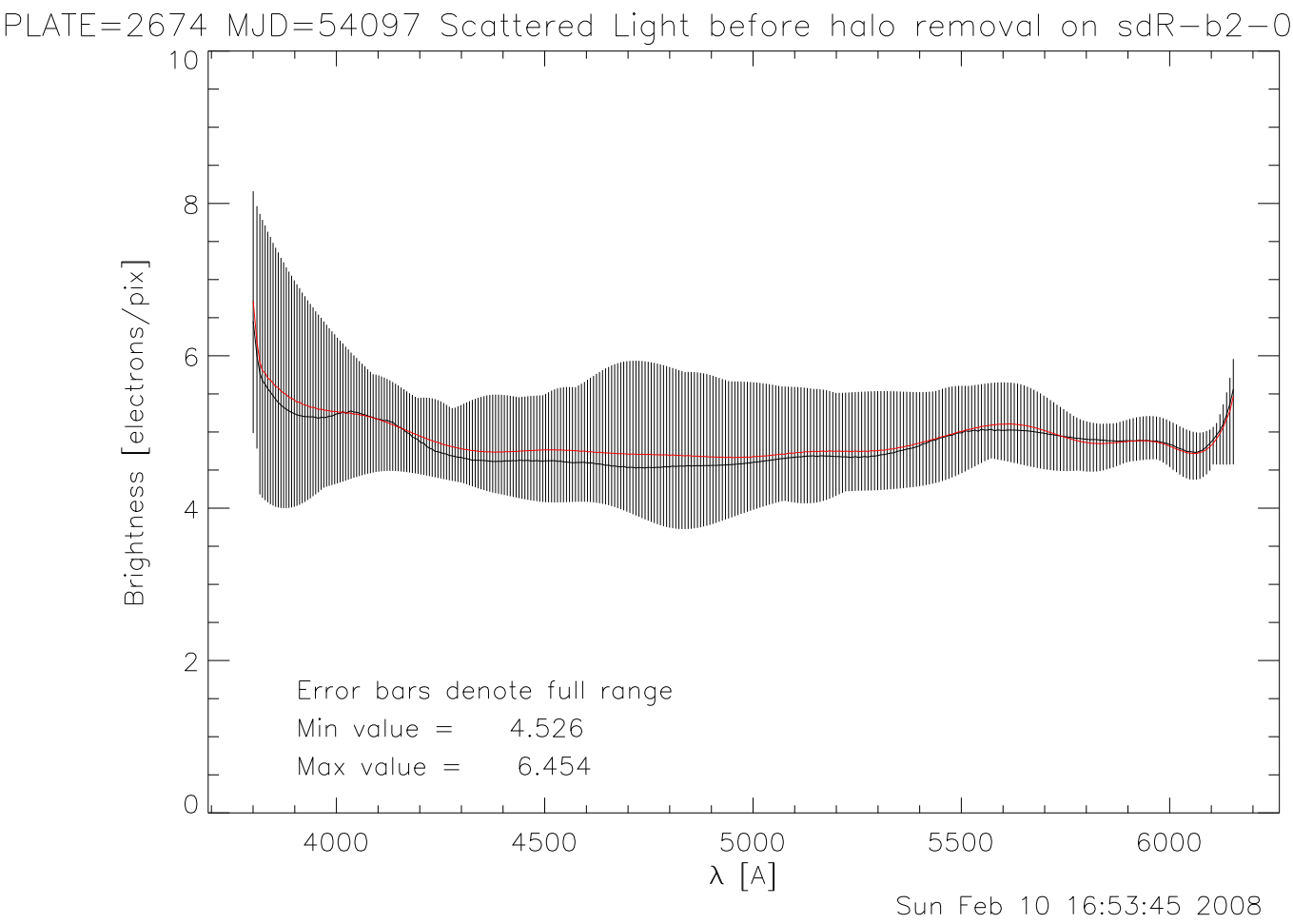

Number of sky fibers = 33
PLATE=2674 MJD=54097 sdR-b2-00042259.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

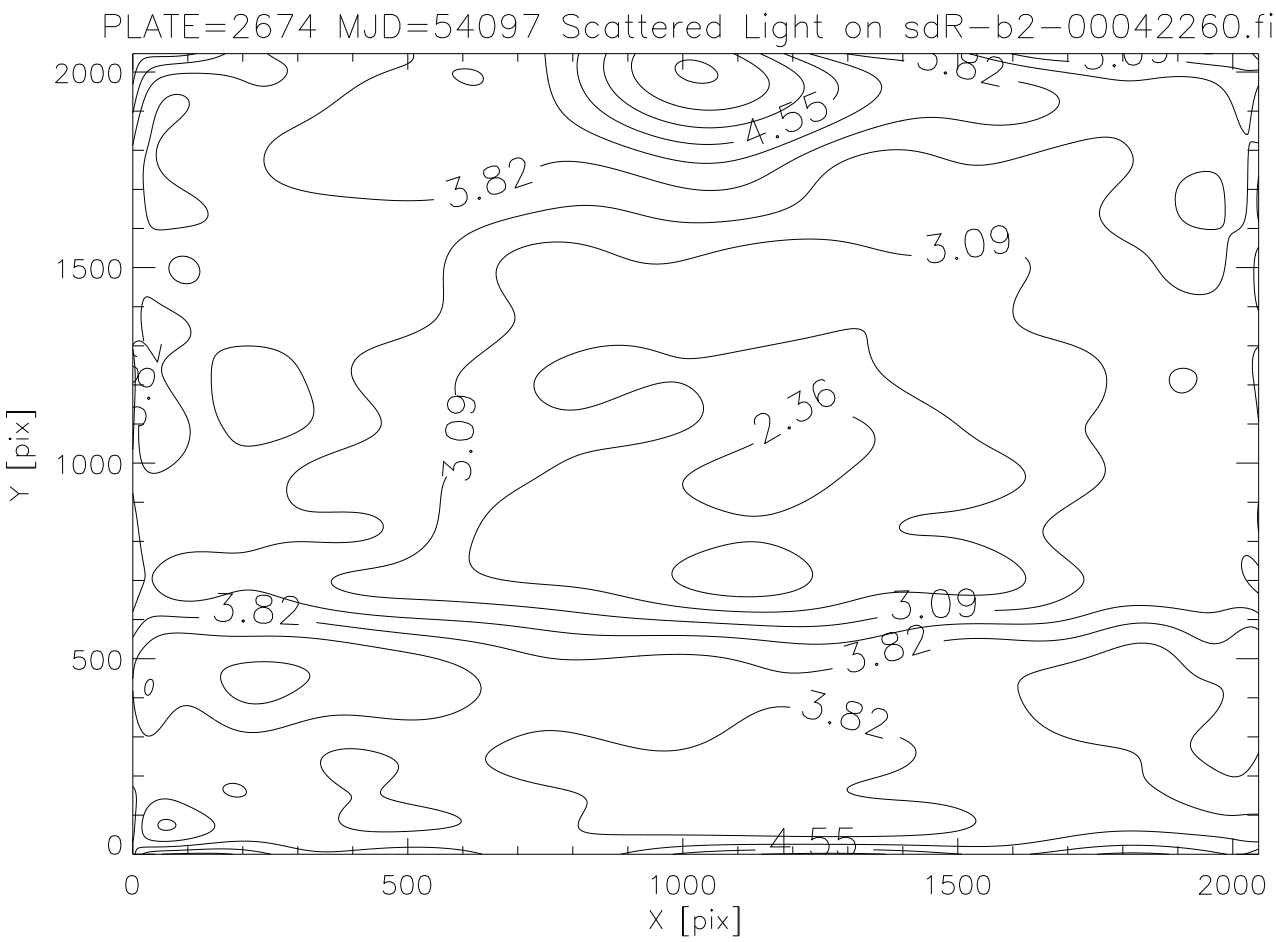

PLATE=2674 MJD=54097 sdR-b2-00042259.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 6.68 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

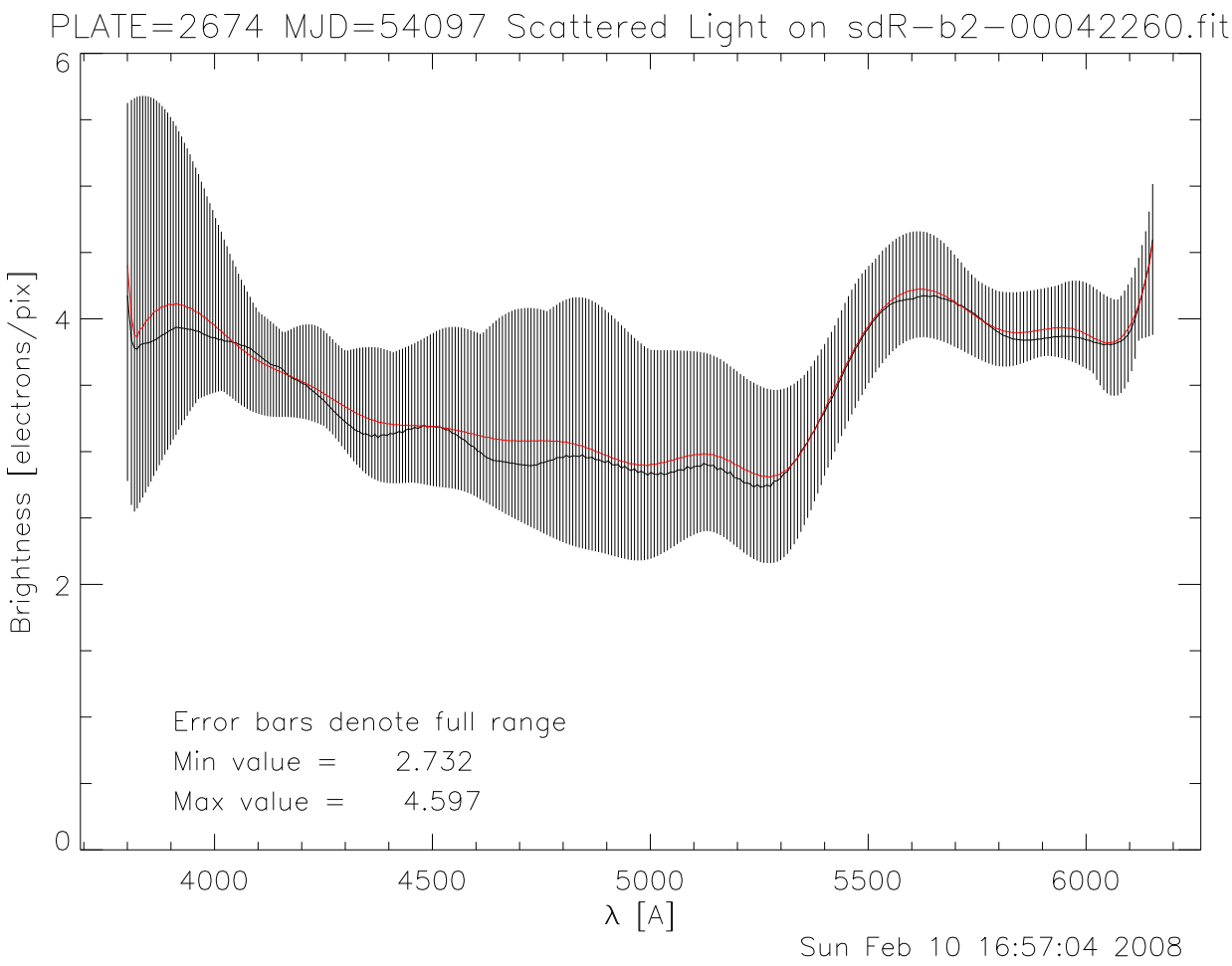

PLATE=2674 MJD=54097 sdR-b2-00042259.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.23 %
Fiber number
Focal Distance [mm]
Airmass

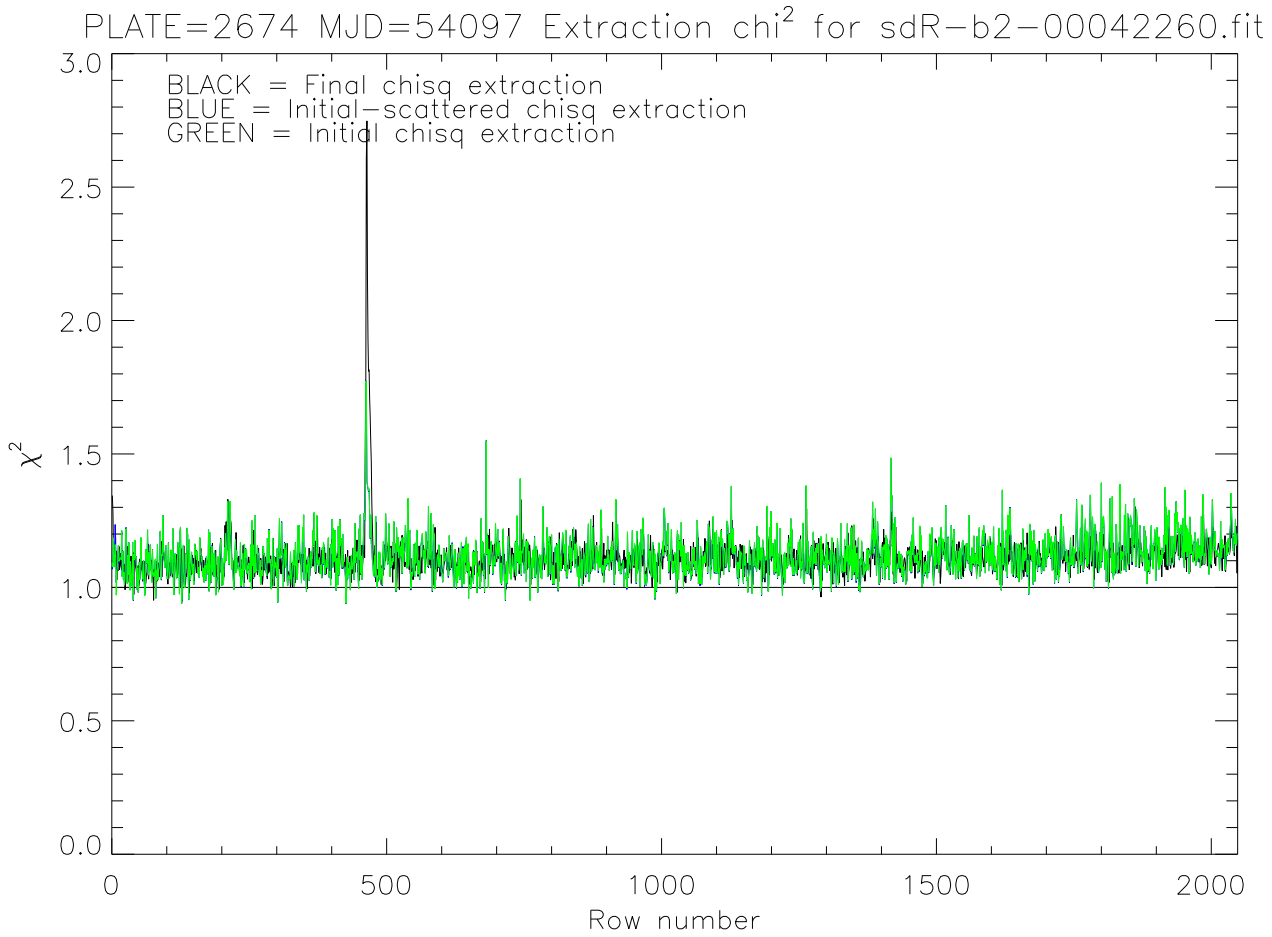

PLATE=2674 MJD=54097 Fiber−Flats for sdR−b2−00042256.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.318
Max value = 1.167
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sun Feb 10 16:52:49 2008

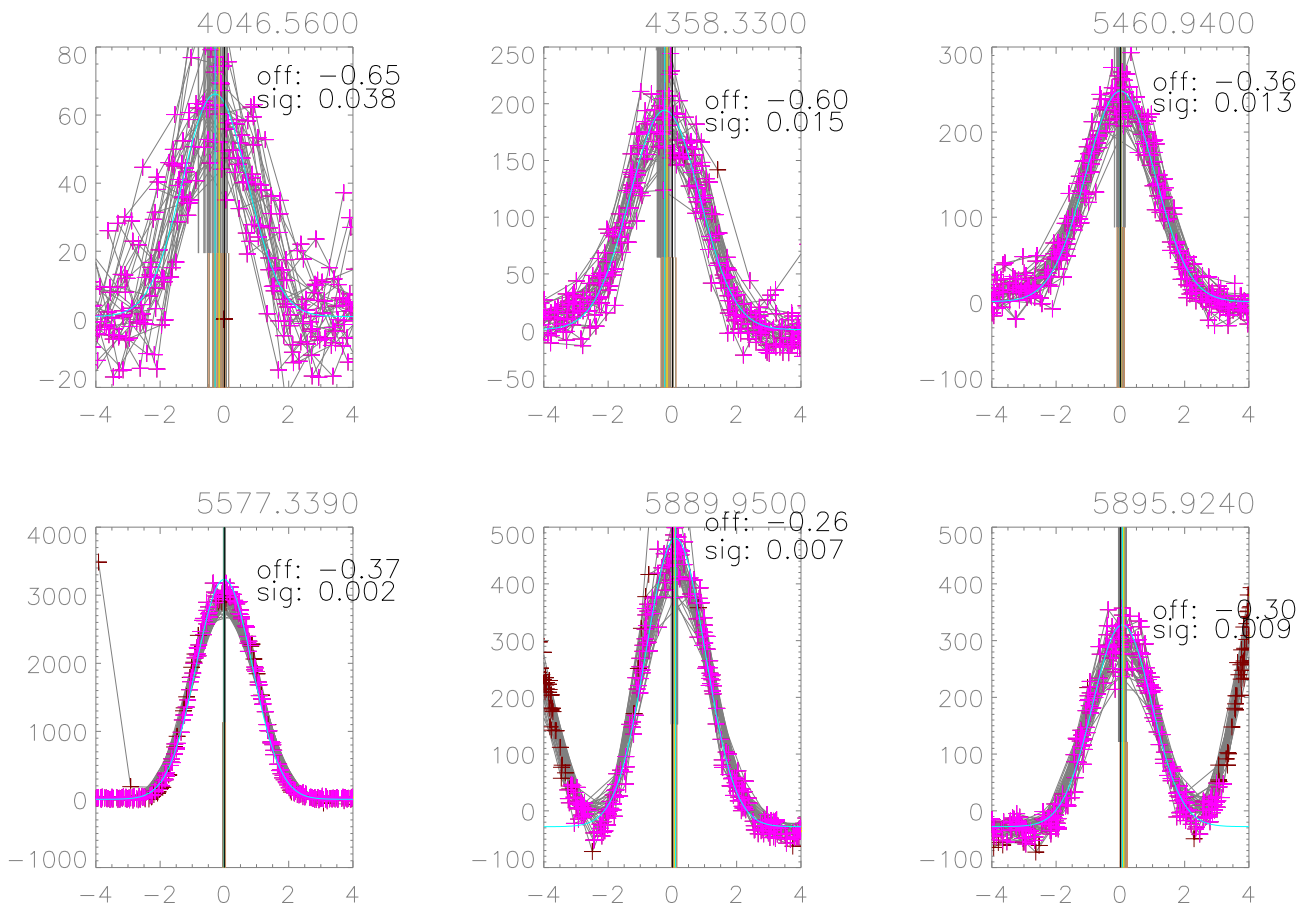

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR-b2-00042260.f
6.82
4.64
4.64
4.64
4.64
4.64
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

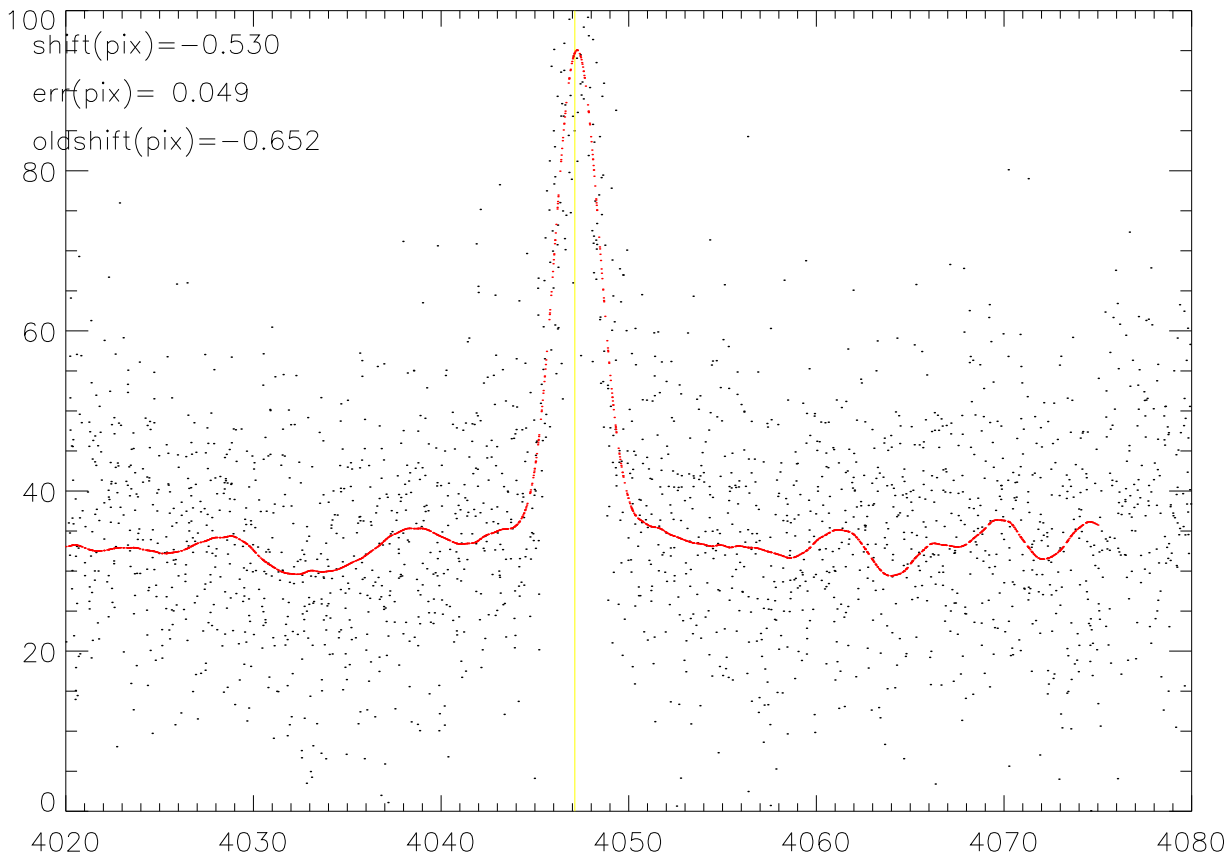

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR-b2-00042260.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.526
Max value = 6.454
Sun Feb 10 16:53:45 2008

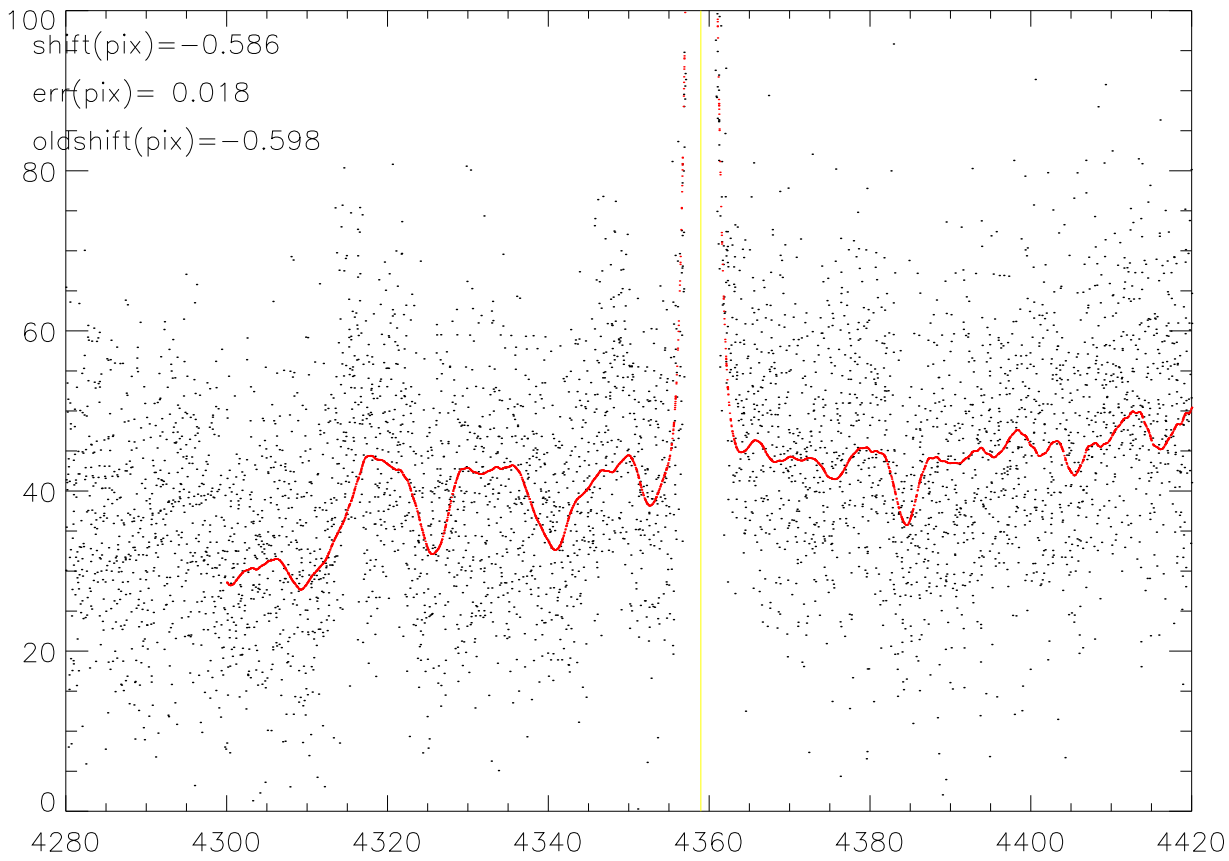

PLATE=2674 MJD=54097 Scattered Light on sdR-b2-00042260.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
4.55
3.82
3.09
2.36
3.09
3.82
3.09
3.82
3.82
4.55

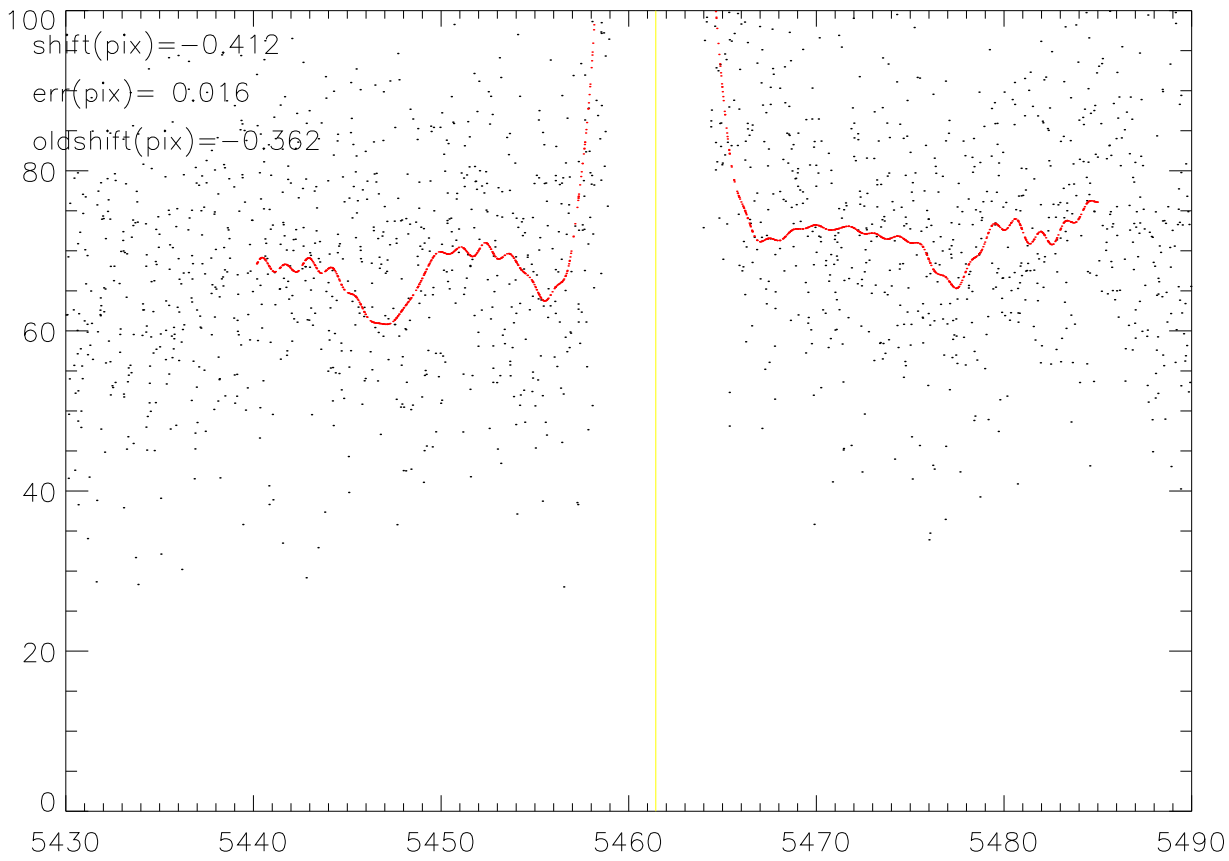

PLATE=2674 MJD=54097 Scattered Light on sdR-b2-00042260.fit
Brightness [electrons/pix]
0
2
4
6
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 2.732
Max value = 4.597
Sun Feb 10 16:57:04 2008

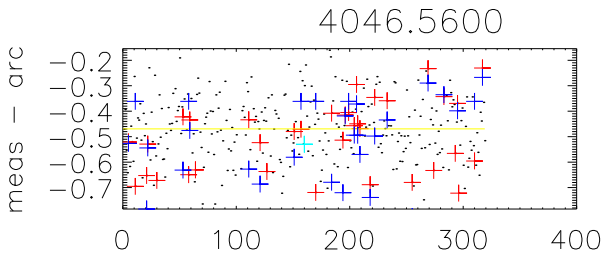

PLATE=2674 MJD=54097 Extraction chi^2 for sdR-b2-00042260.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

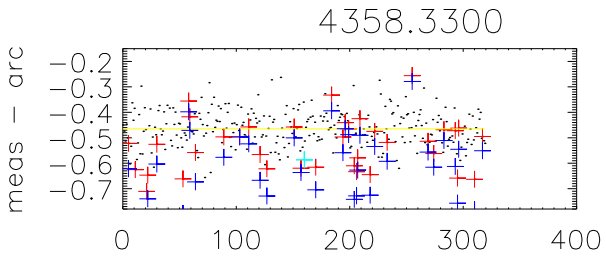

4046.5600
off: −0.65
sig: 0.038
4358.3300
off: −0.60
sig: 0.015
5460.9400
off: −0.36
sig: 0.013
5577.3390
off: −0.37
sig: 0.002
5889.9500
off: −0.26
sig: 0.007
5895.9240
off: −0.30
sig: 0.009

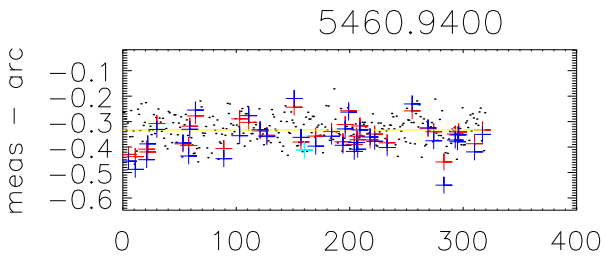

shift(pix)=−0.530
err(pix)= 0.049
oldshift(pix)=−0.652
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

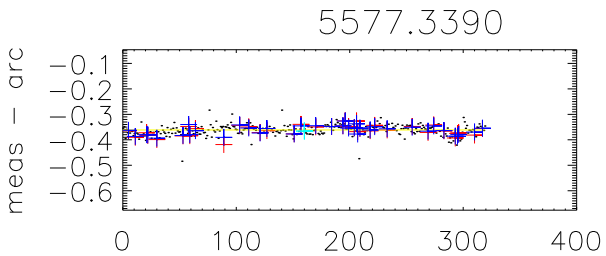

shift(pix)=−0.586
err(pix)= 0.018
oldshift(pix)=−0.598
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

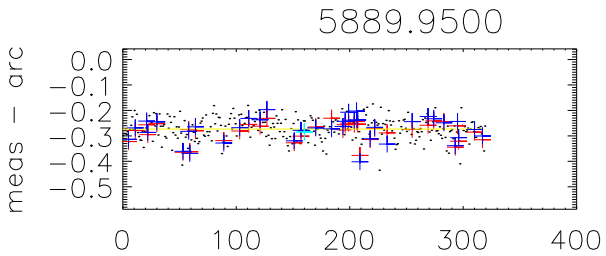

shift(pix)=−0.412
err(pix)= 0.016
oldshift(pix)=−0.362
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

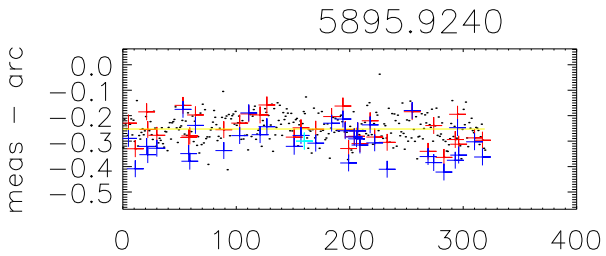

4046.5600
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

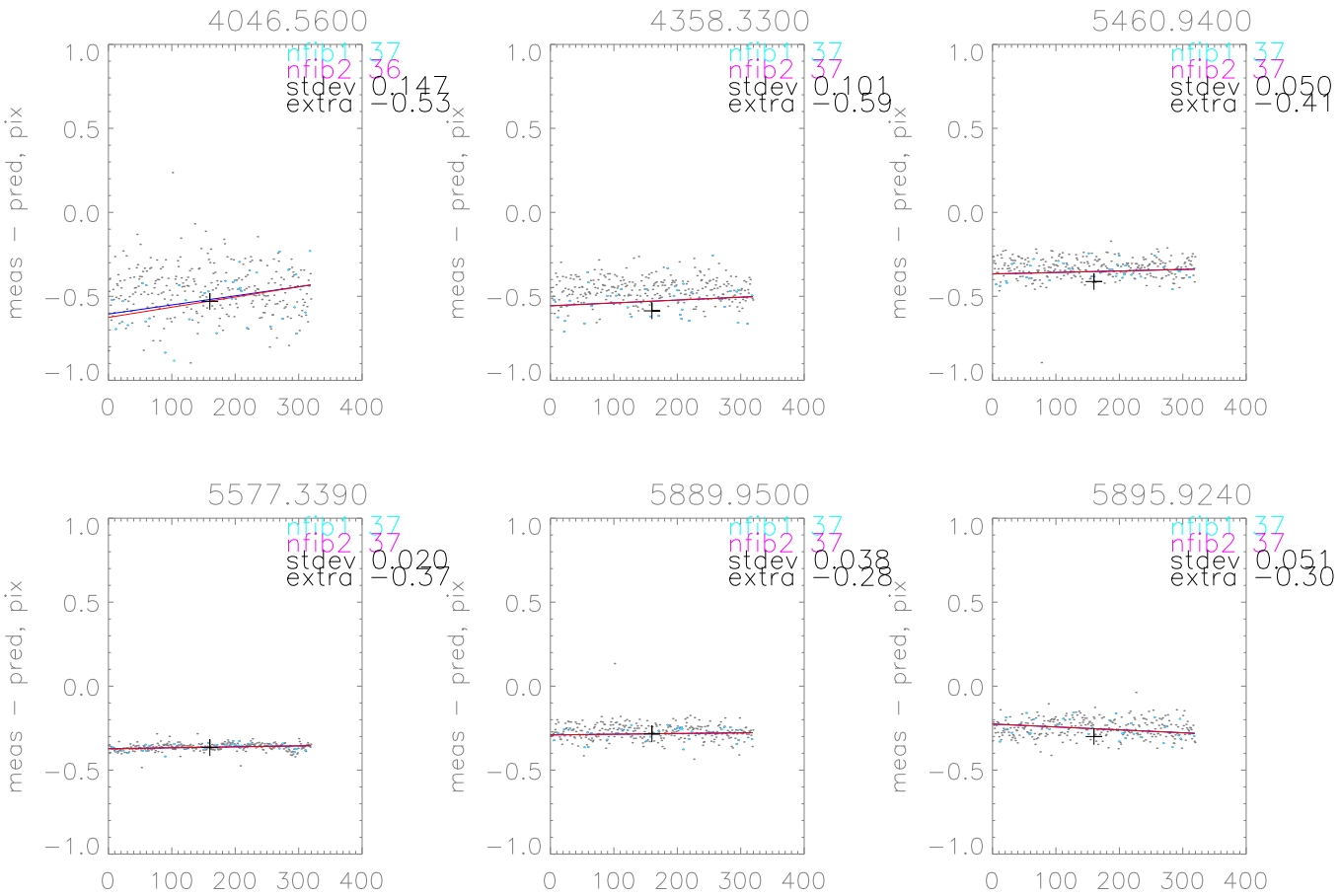

4358.3300
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

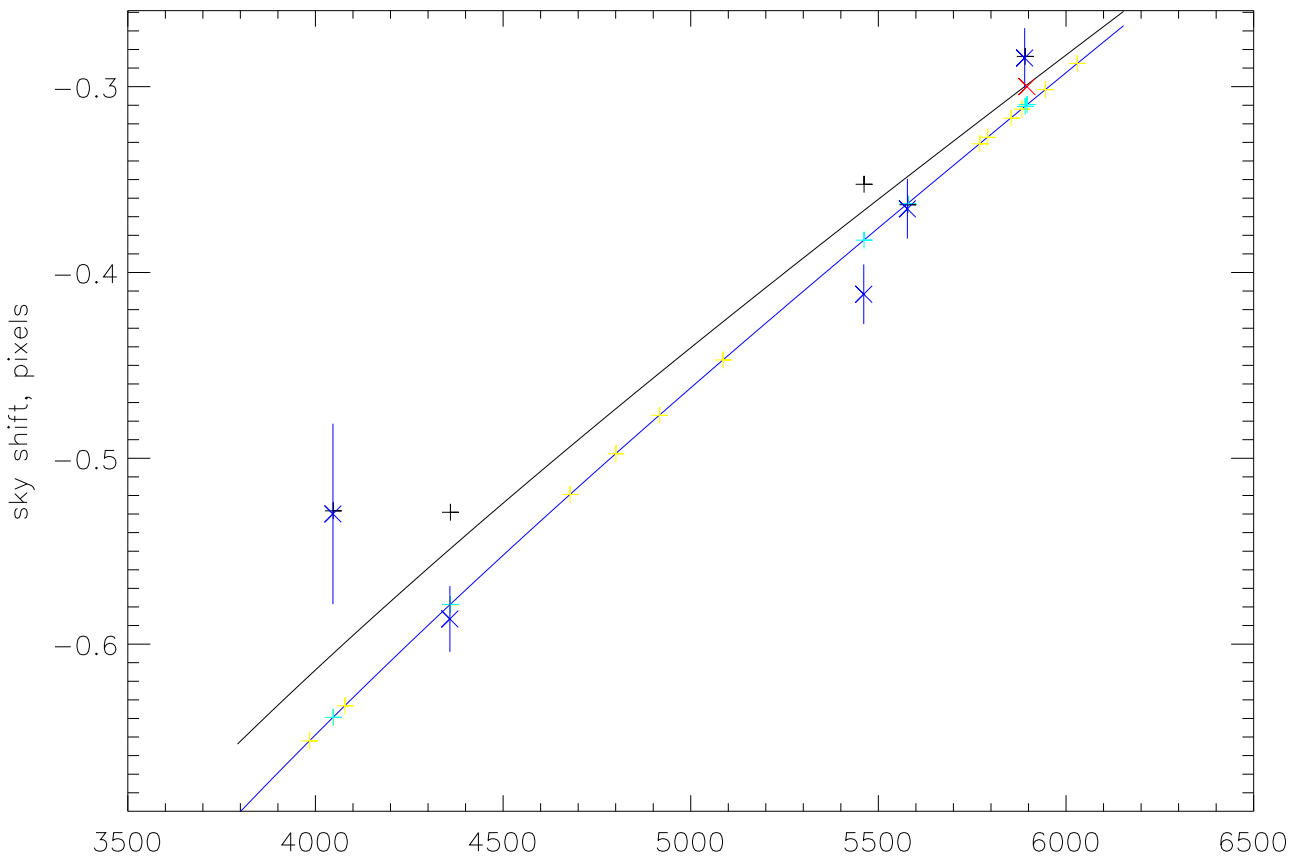

5460.9400
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

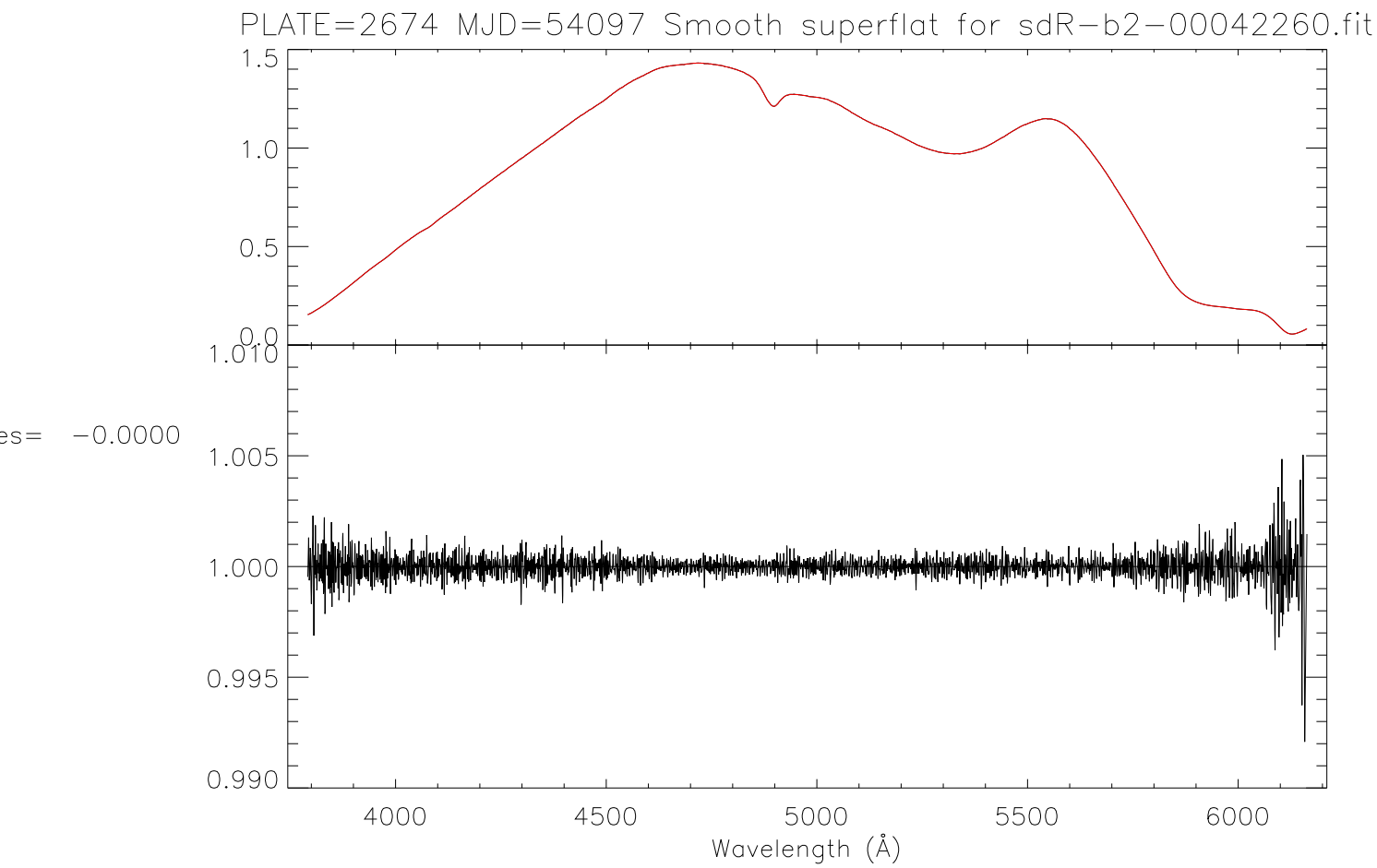

5577.3390
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400


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

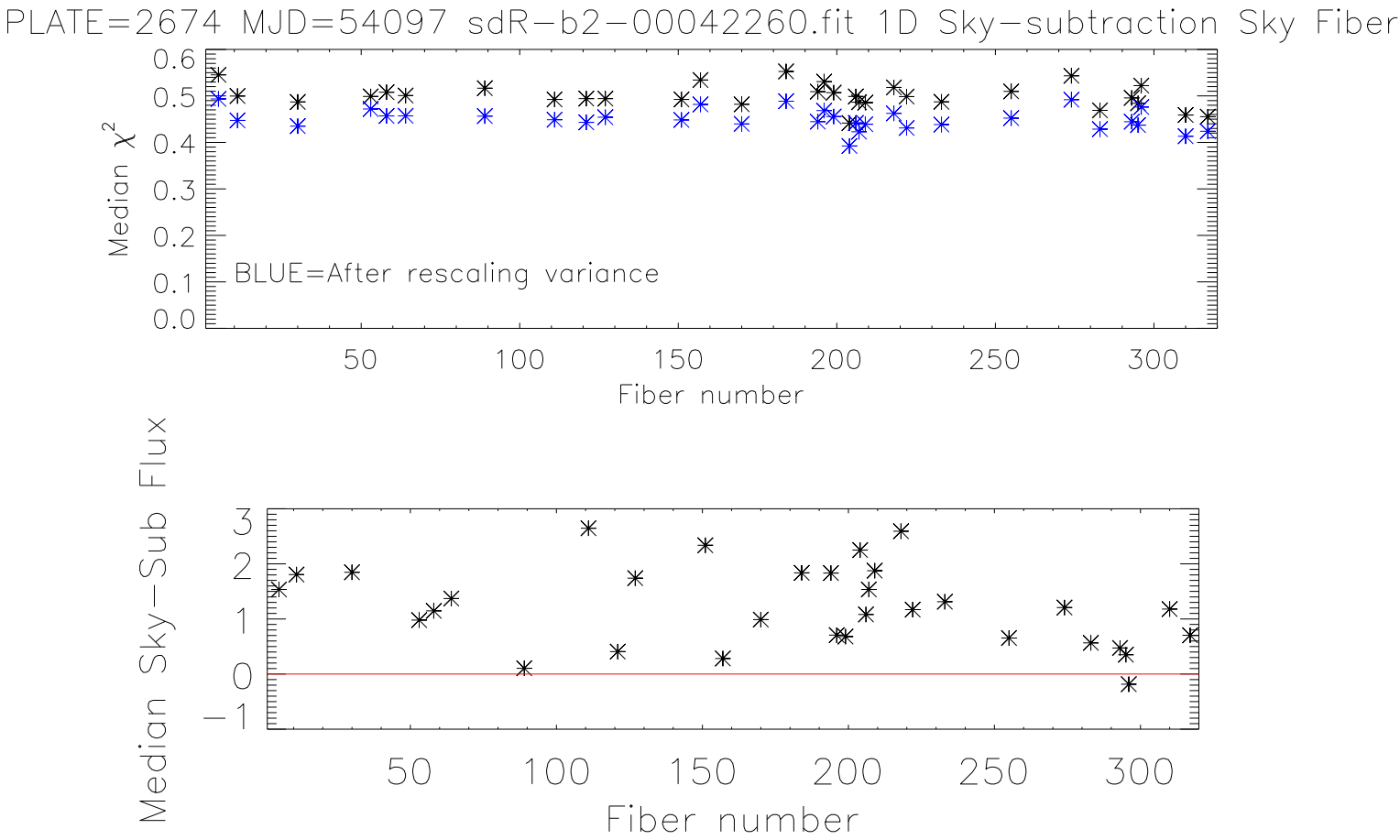

5895.9240
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

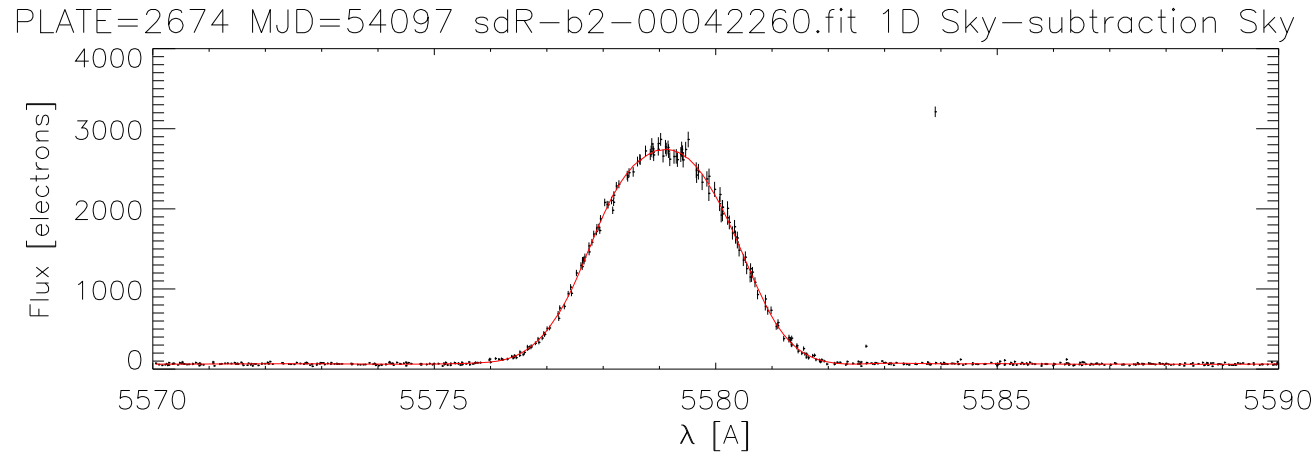

4046.5600
nfib1 37
nfib2 36
stdev 0.147
extra −0.53
4358.3300
nfib1 37
nfib2 37
stdev 0.101
extra −0.59
5460.9400
nfib1 37
nfib2 37
stdev 0.050
extra −0.41
5577.3390
nfib1 37
nfib2 37
stdev 0.020
extra −0.37
5889.9500
nfib1 37
nfib2 37
stdev 0.038
extra −0.28
5895.9240
nfib1 37
nfib2 37
stdev 0.051
extra −0.30
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

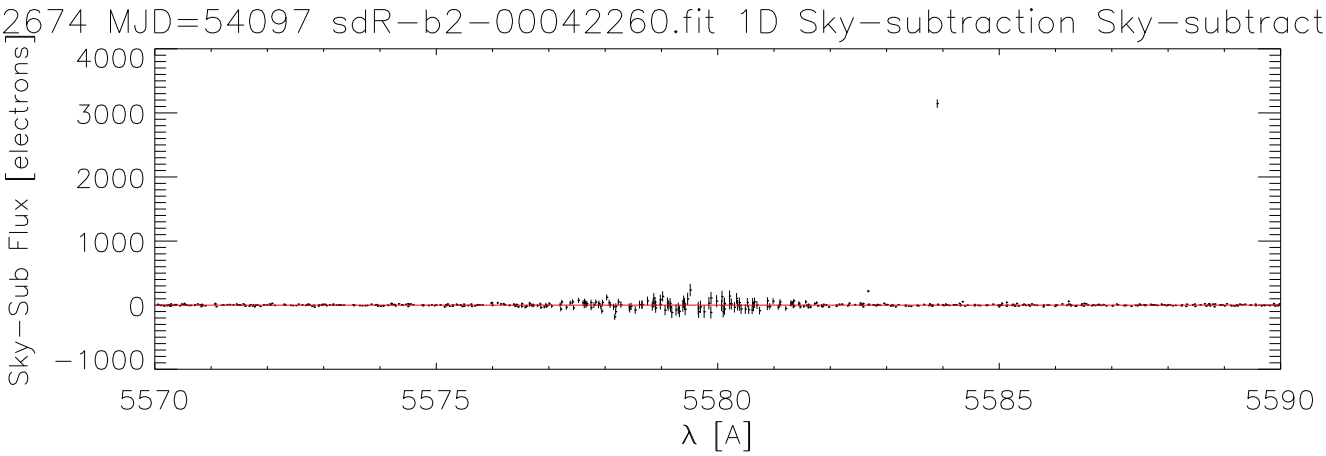

sky shift, pixels
−0.3
−0.4
−0.5
−0.6
3500
4000
4500
5000
5500
6000
6500

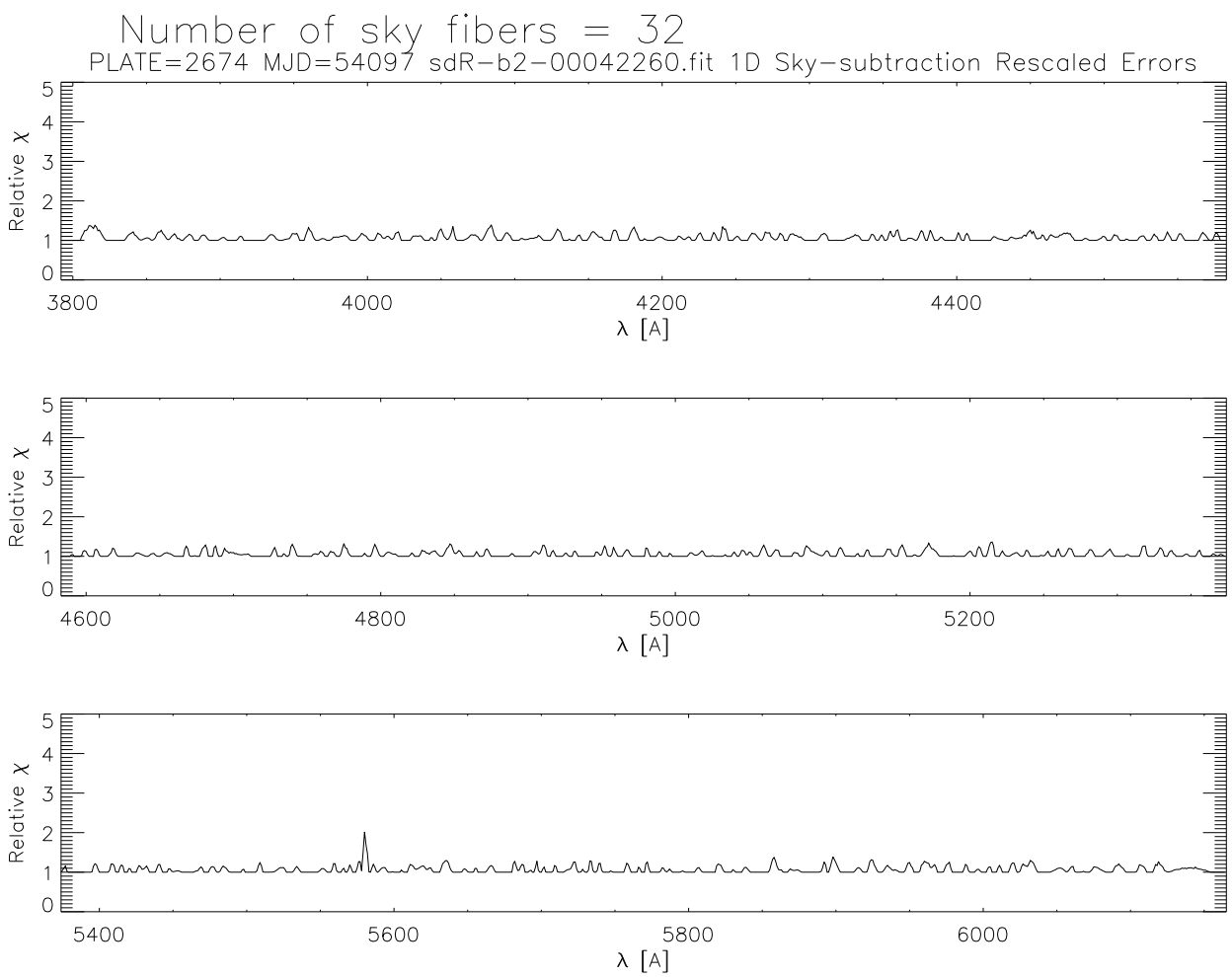

PLATE=2674 MJD=54097 Smooth superflat for sdR-b2-00042260.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

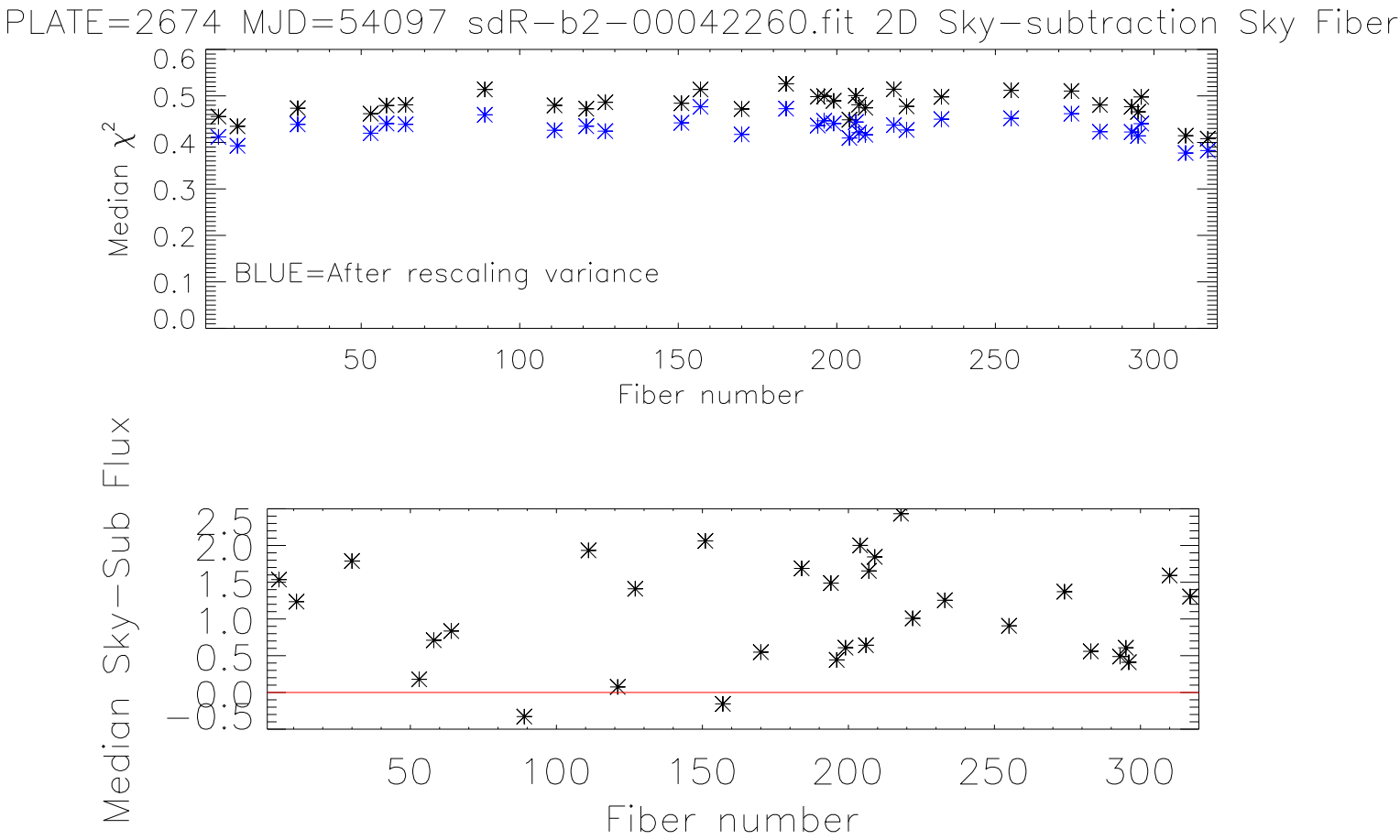
es= −0.0000

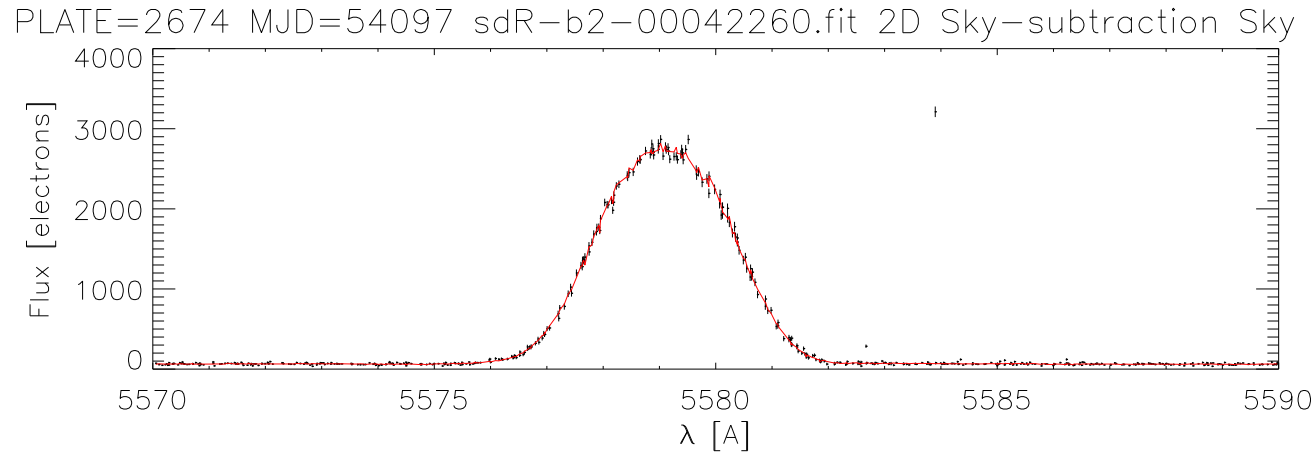

PLATE=2674 MJD=54097 sdR-b2-00042260.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
−1
0
1
2
3
50
100
150
200
250
300
Fiber number

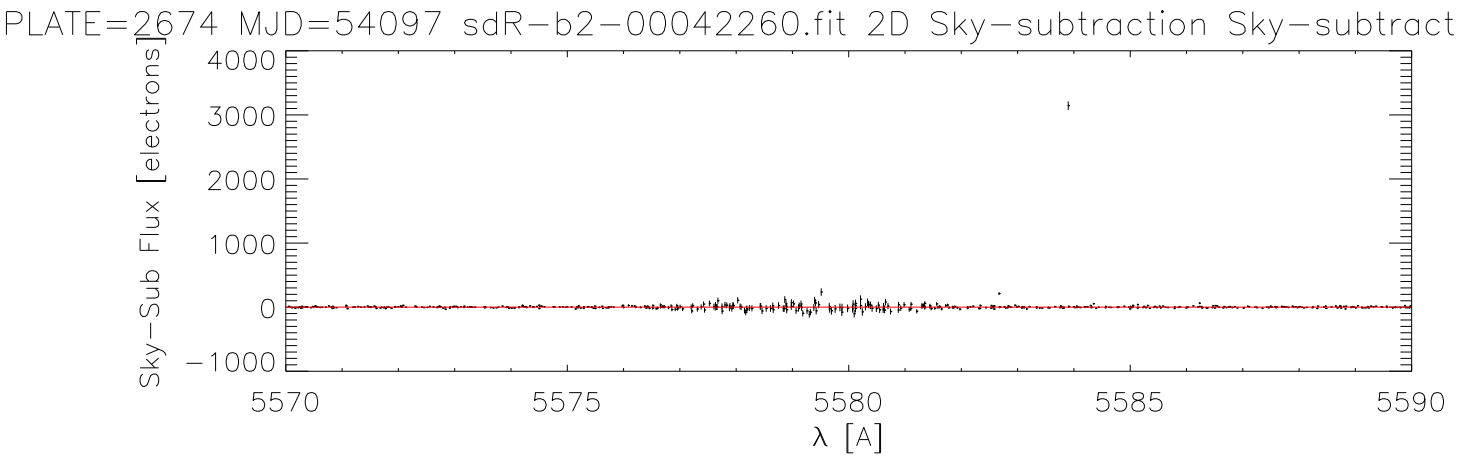

PLATE=2674 MJD=54097 sdR-b2-00042260.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

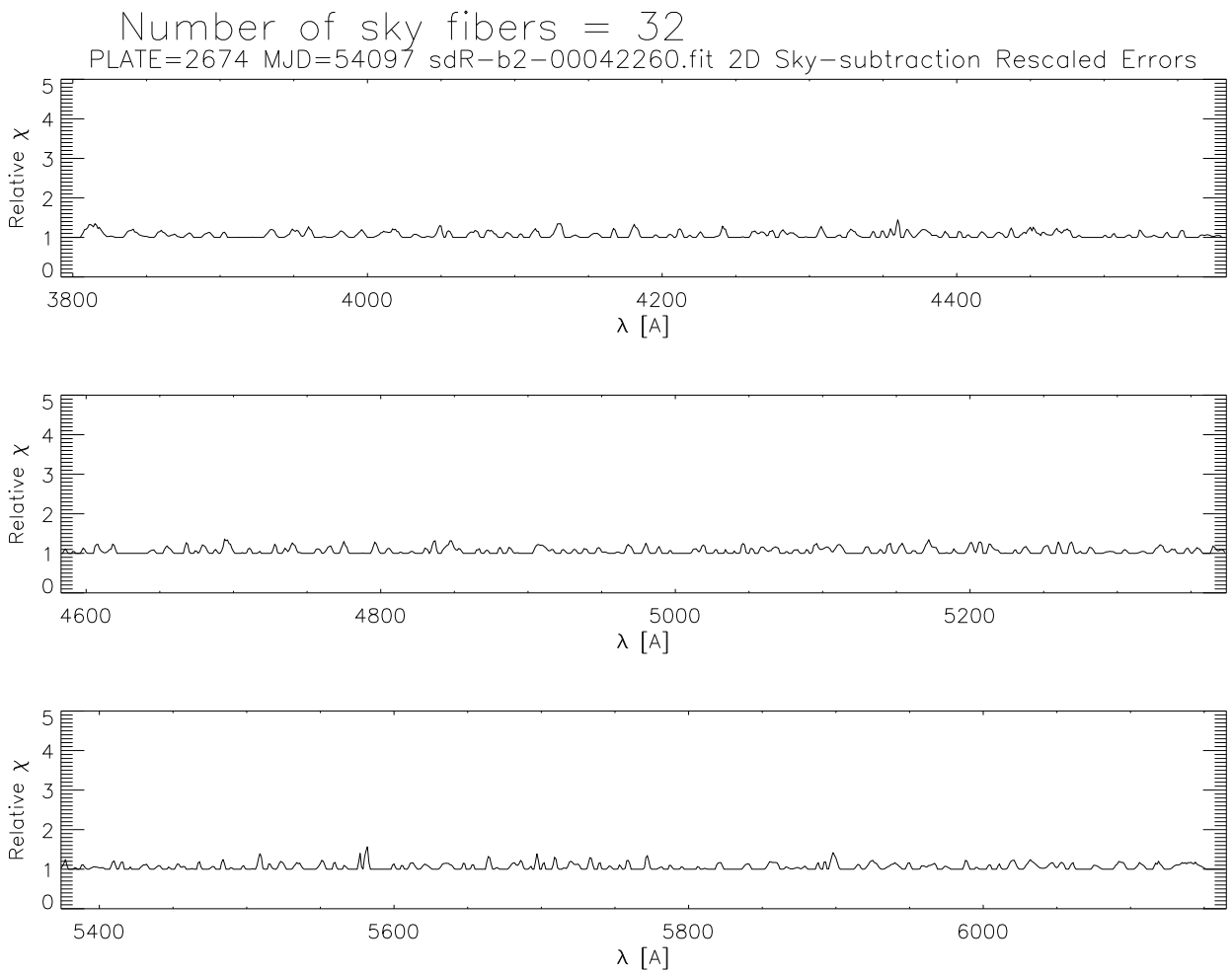

PLATE=2674 MJD=54097 sdR-b2-00042260.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
4000
3000
2000
1000
0
-1000
5570
5575
5580
5585
5590
λ [A]

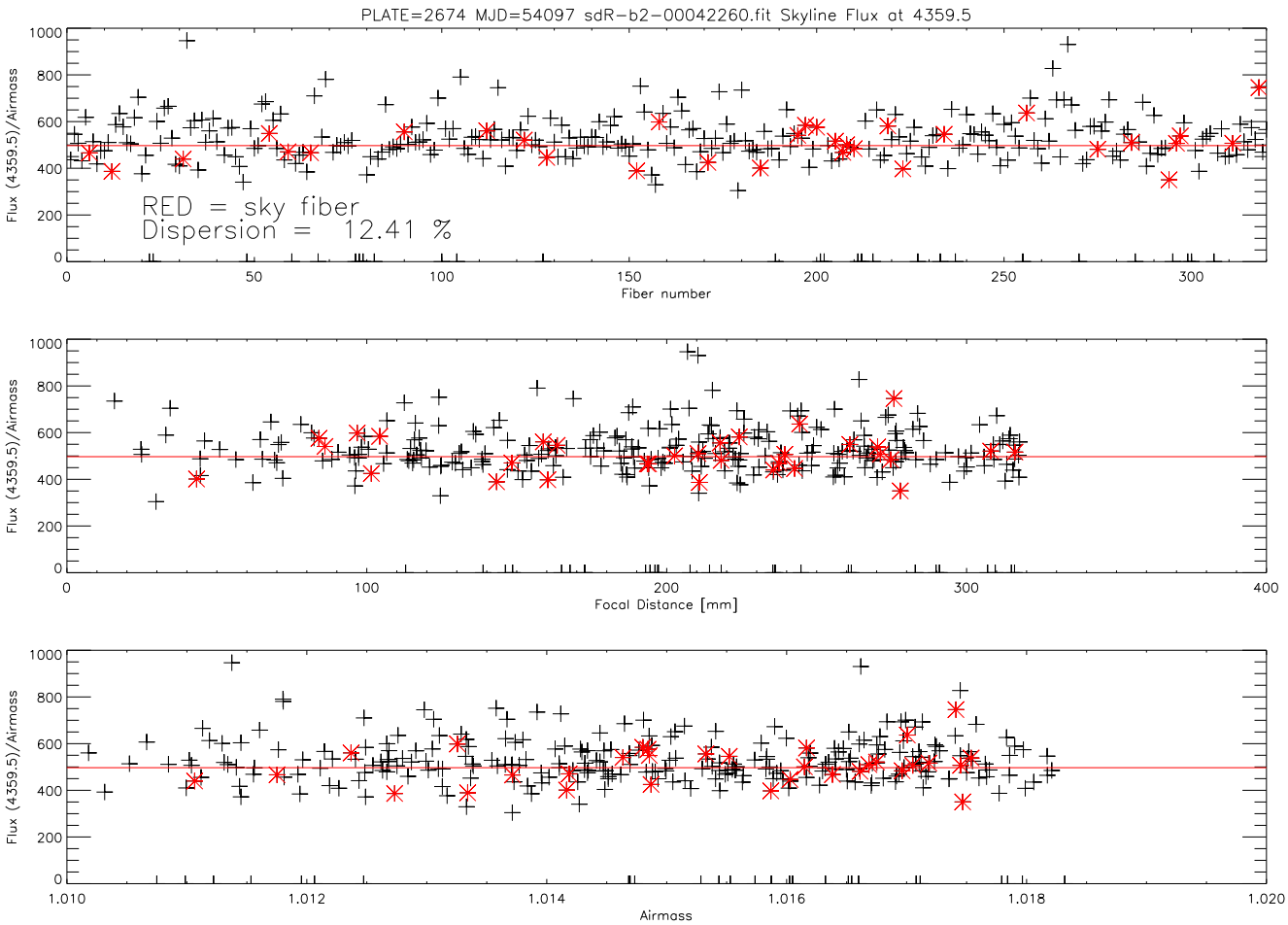

Number of sky fibers = 32
PLATE=2674 MJD=54097 sdR-b2-00042260.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

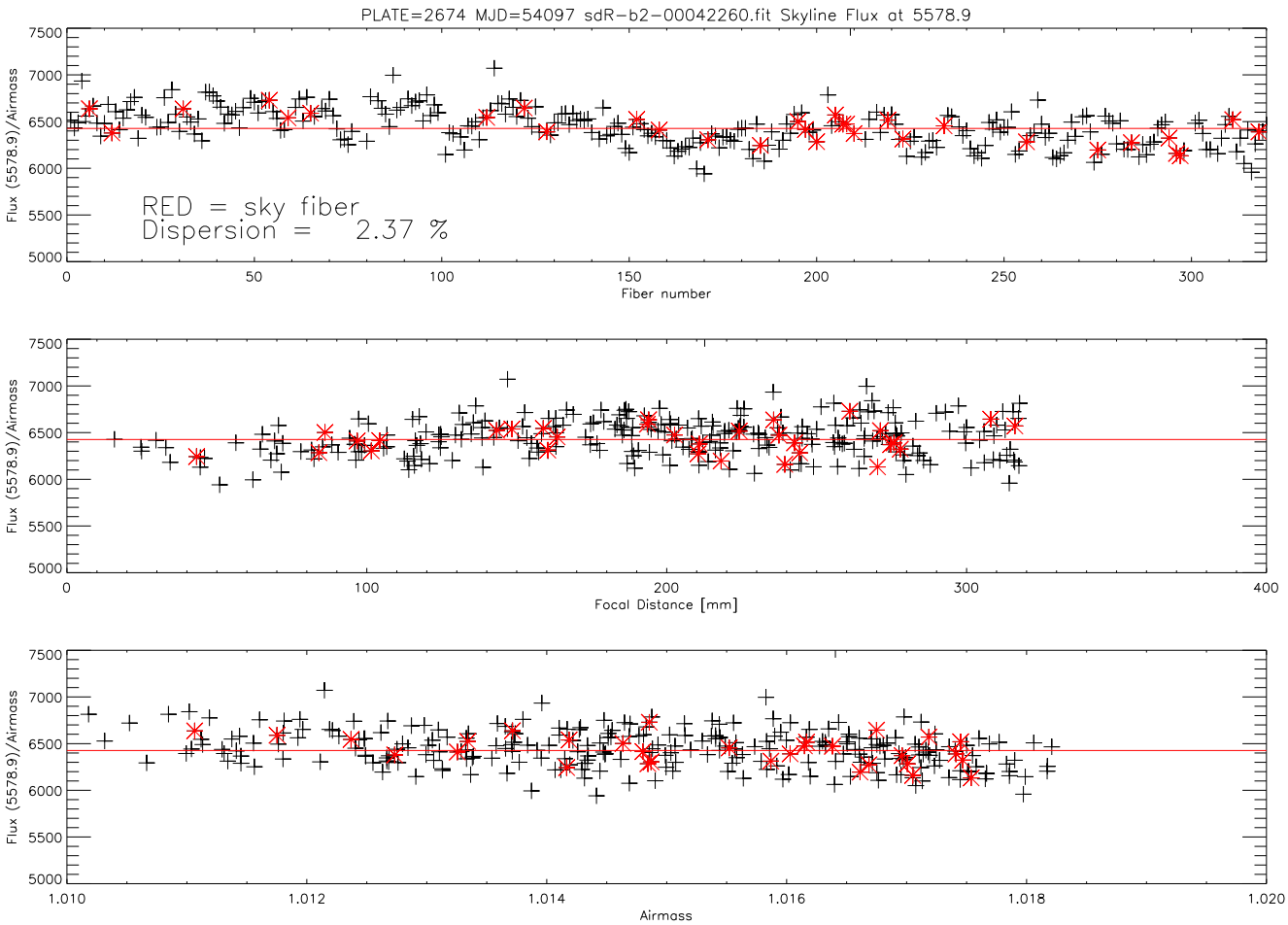

PLATE=2674 MJD=54097 sdR-b2-00042260.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

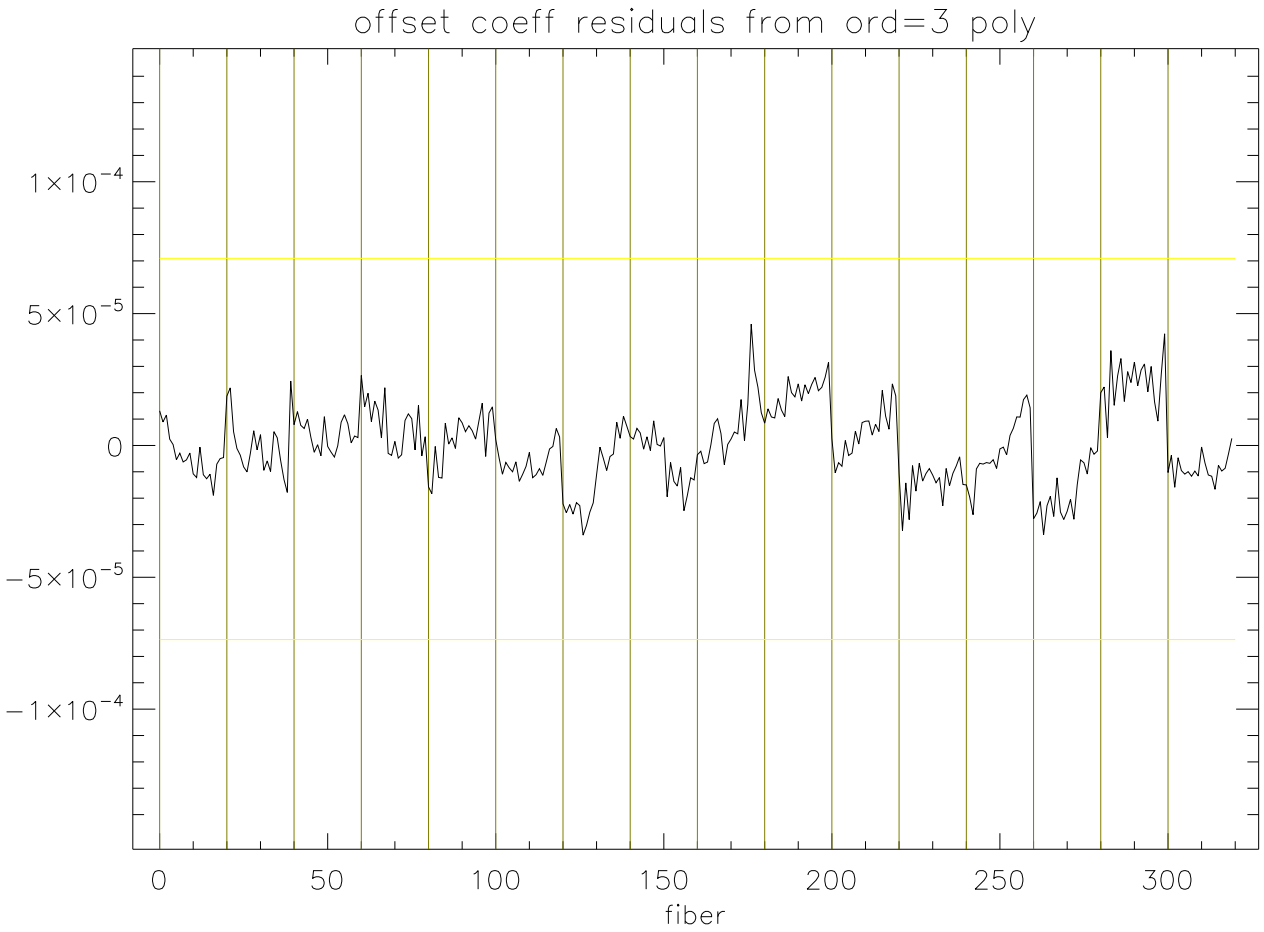

PLATE=2674 MJD=54097 sdR-b2-00042260.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

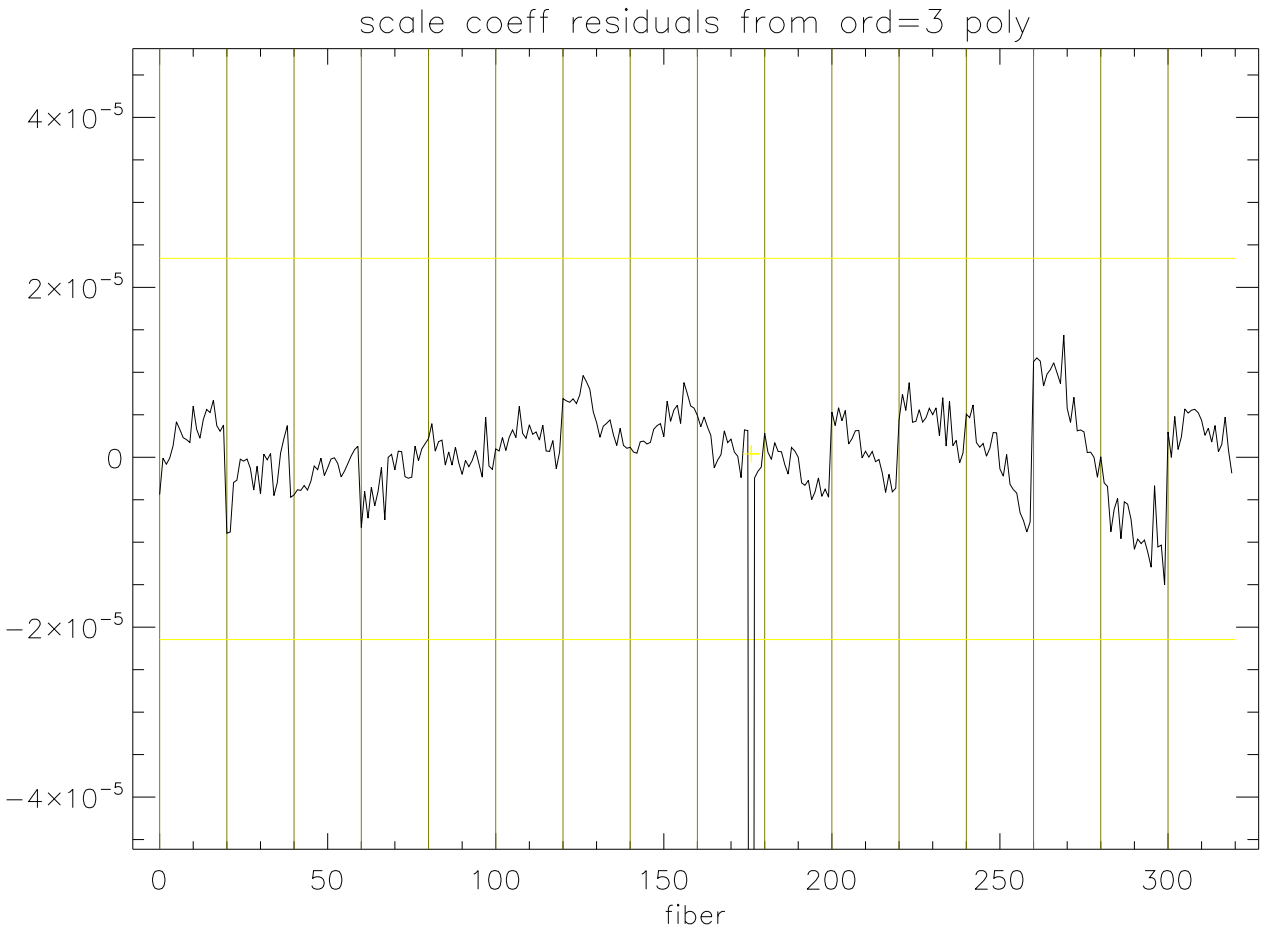

PLATE=2674 MJD=54097 sdR-b2-00042260.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
4000
3000
2000
1000
0
-1000
5570
5575
5580
5585
5590
λ [A]

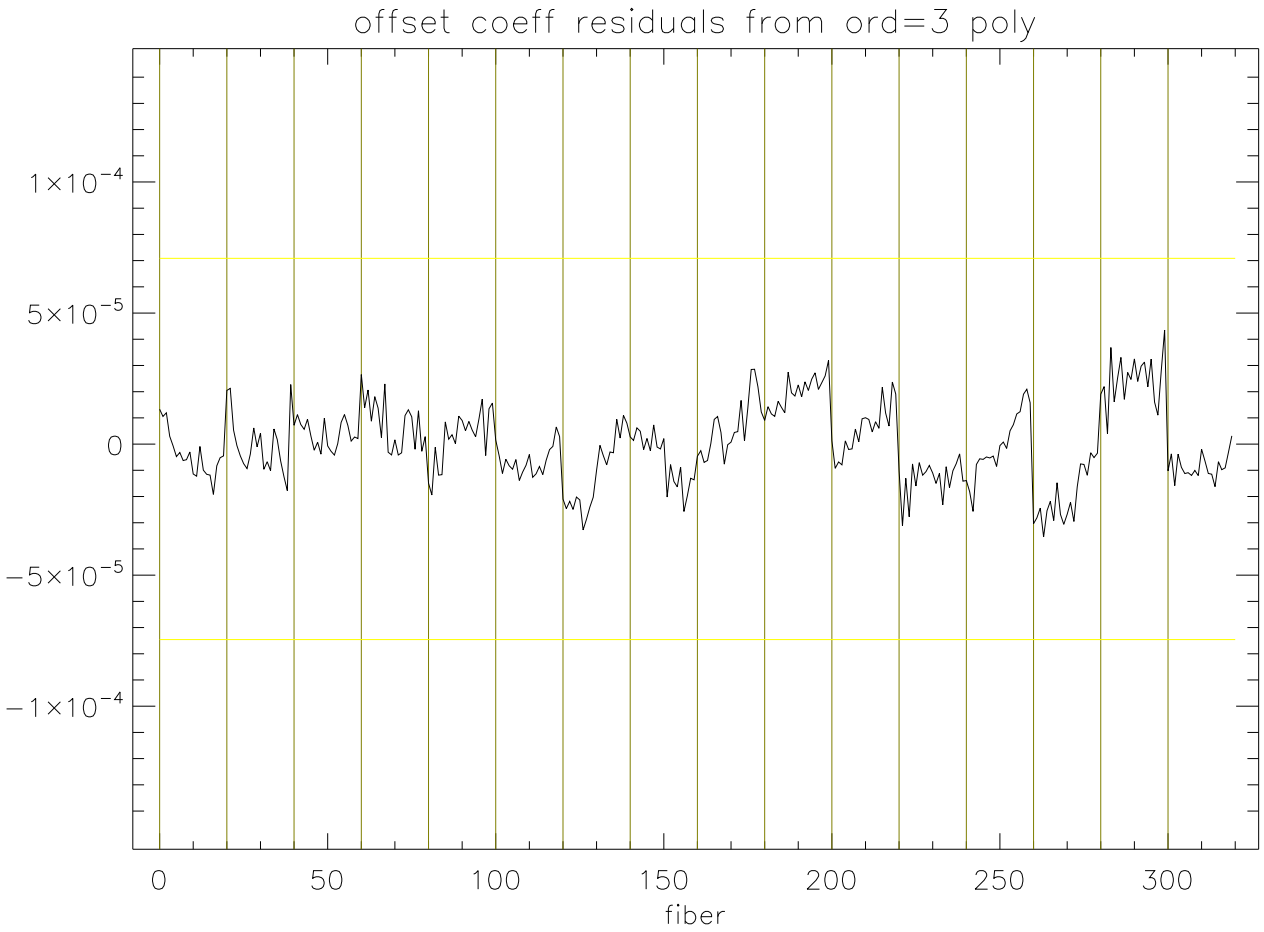

Number of sky fibers = 32
PLATE=2674 MJD=54097 sdR-b2-00042260.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

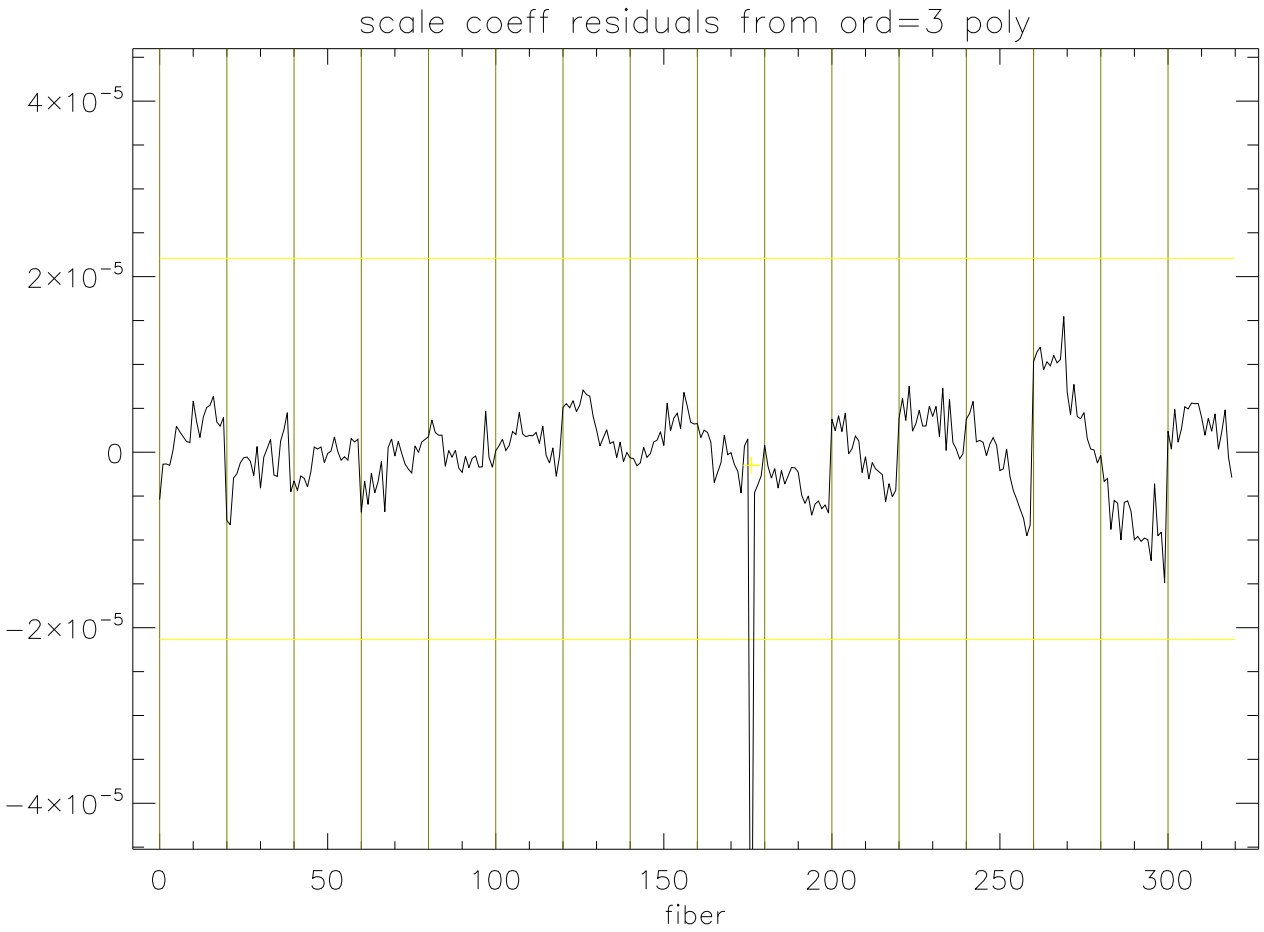

PLATE=2674 MJD=54097 sdR-b2-00042260.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 12.41 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

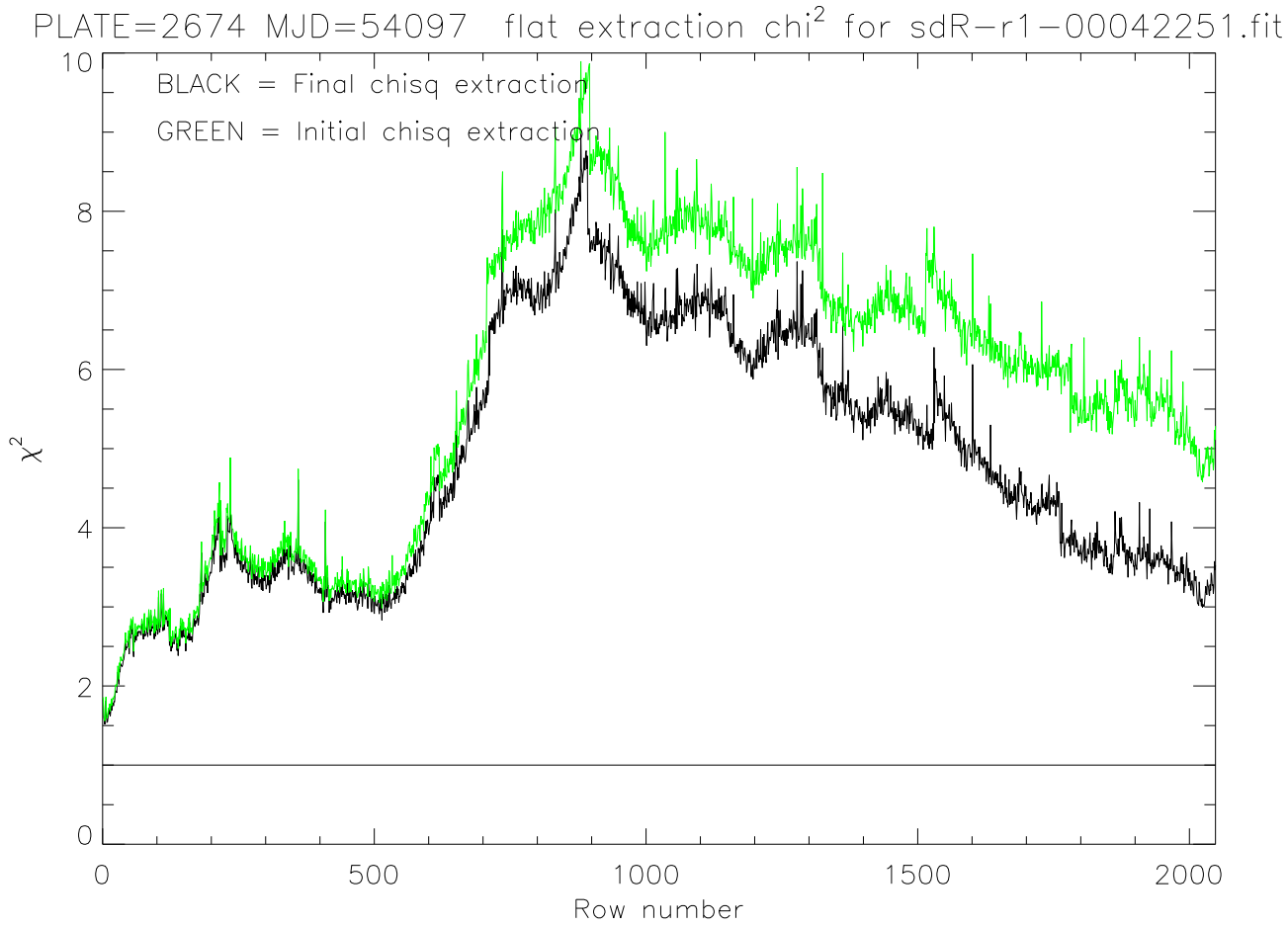

PLATE=2674 MJD=54097 sdR-b2-00042260.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.37 %
Fiber number
Focal Distance [mm]
Airmass

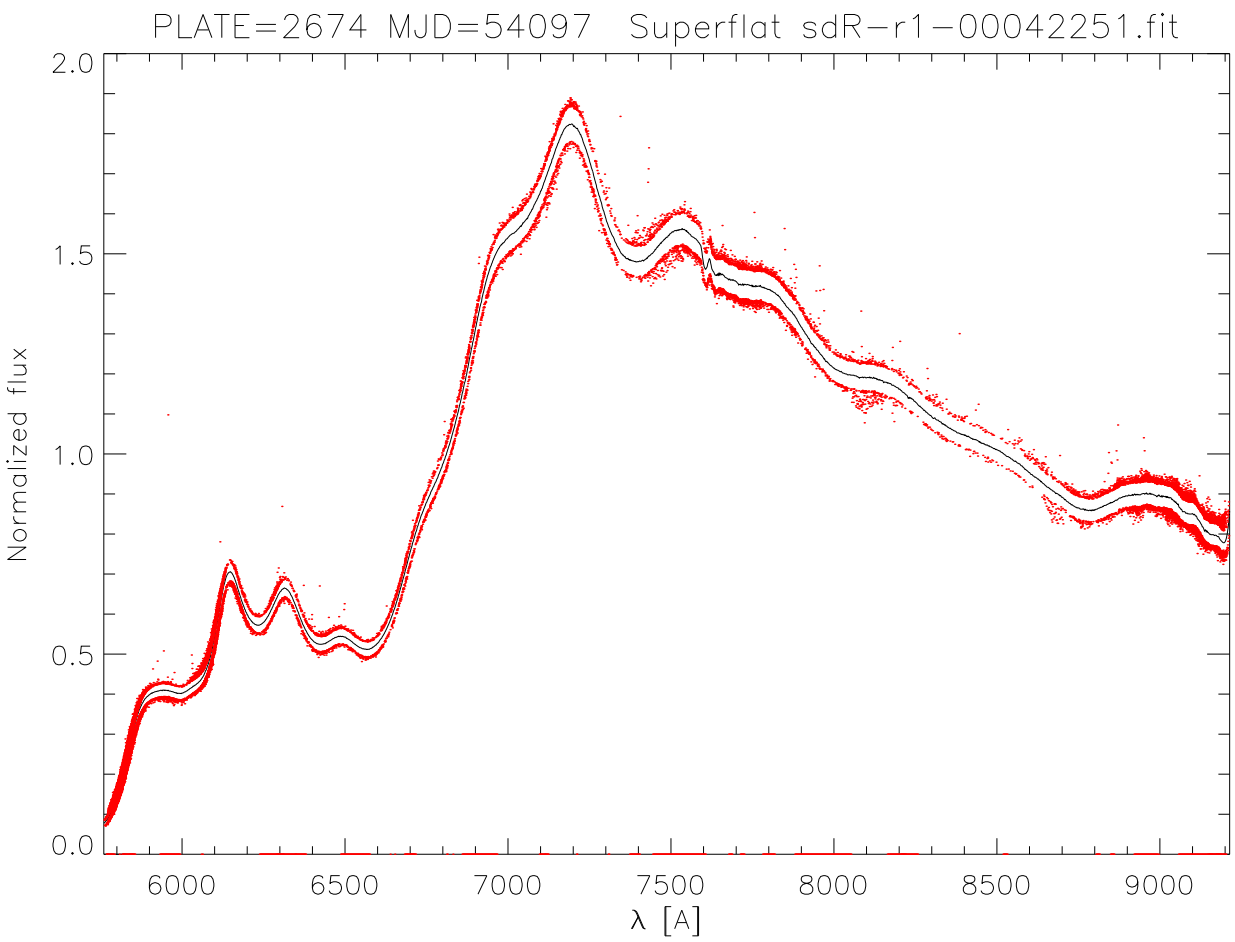

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

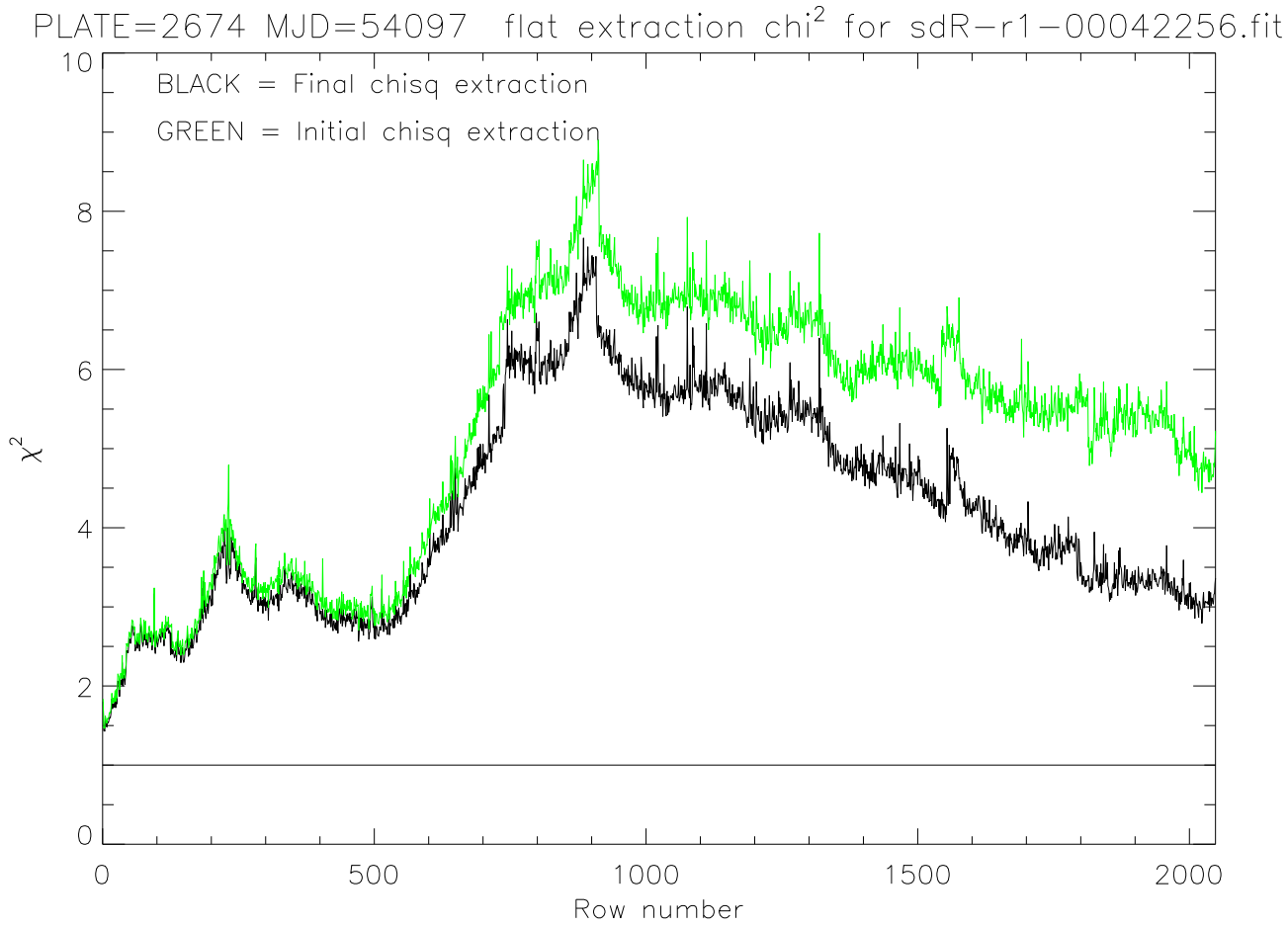

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

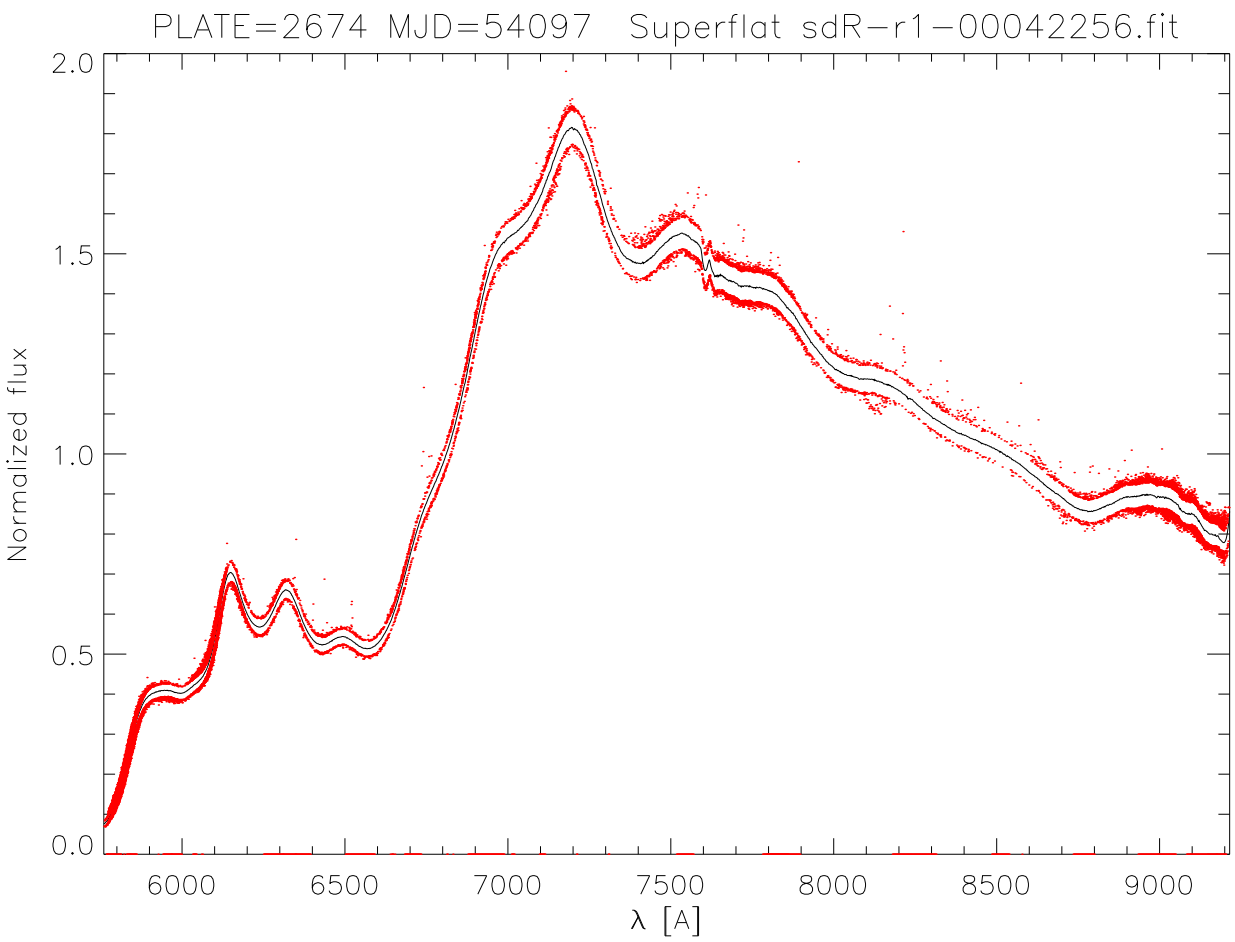

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

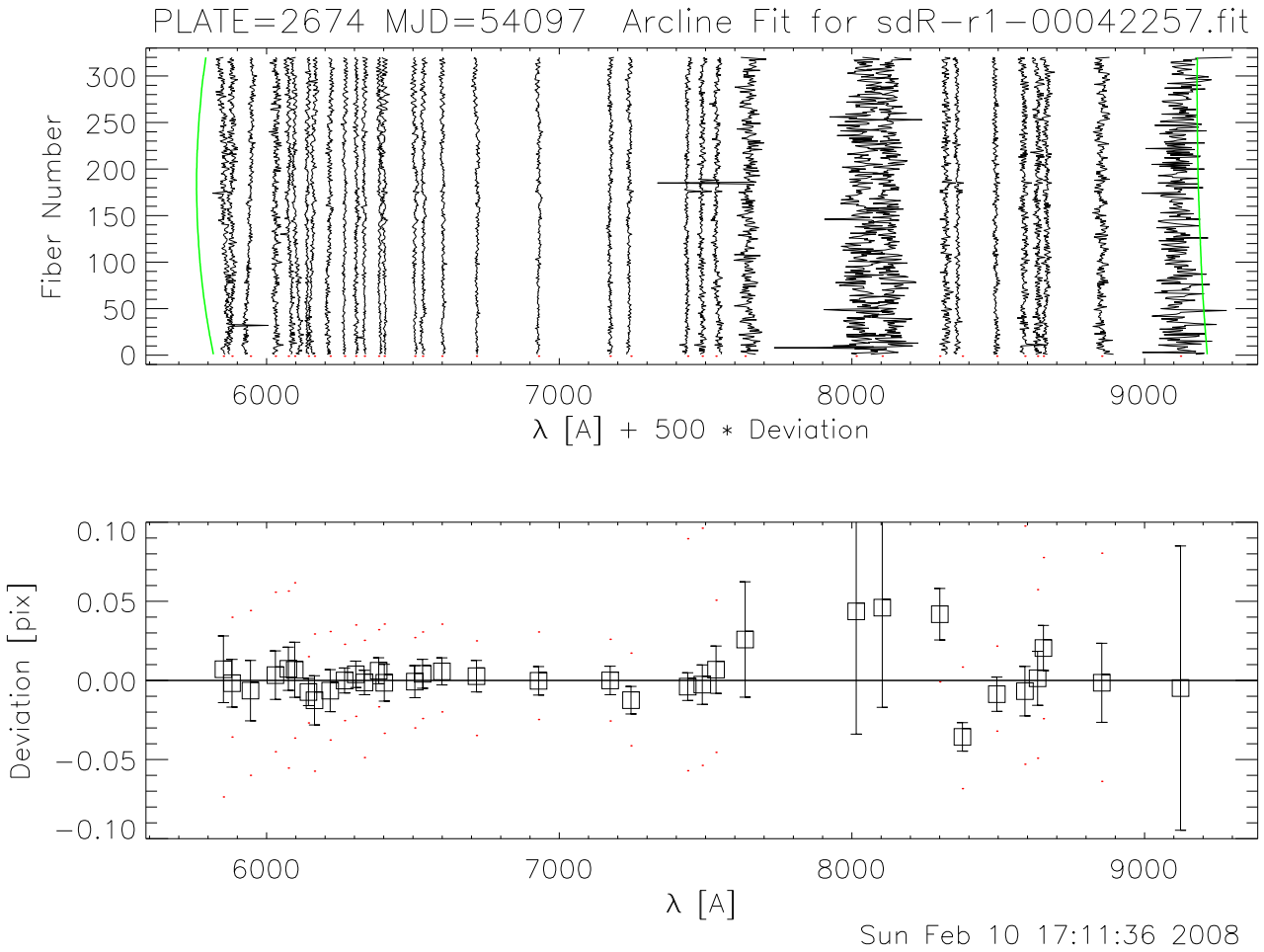

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

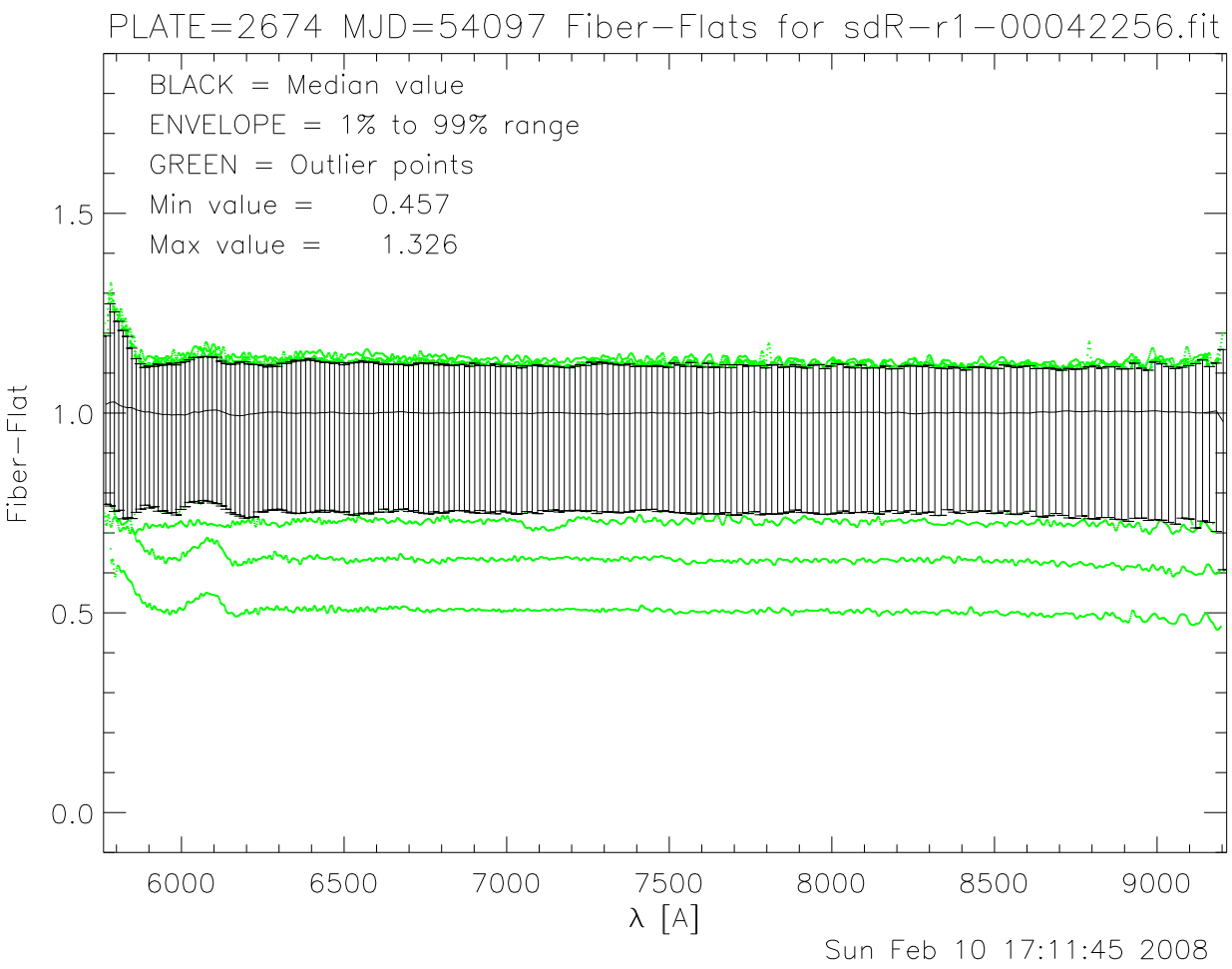

PLATE=2674 MJD=54097 flat extraction chi^2 for sdR−r1−00042251.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

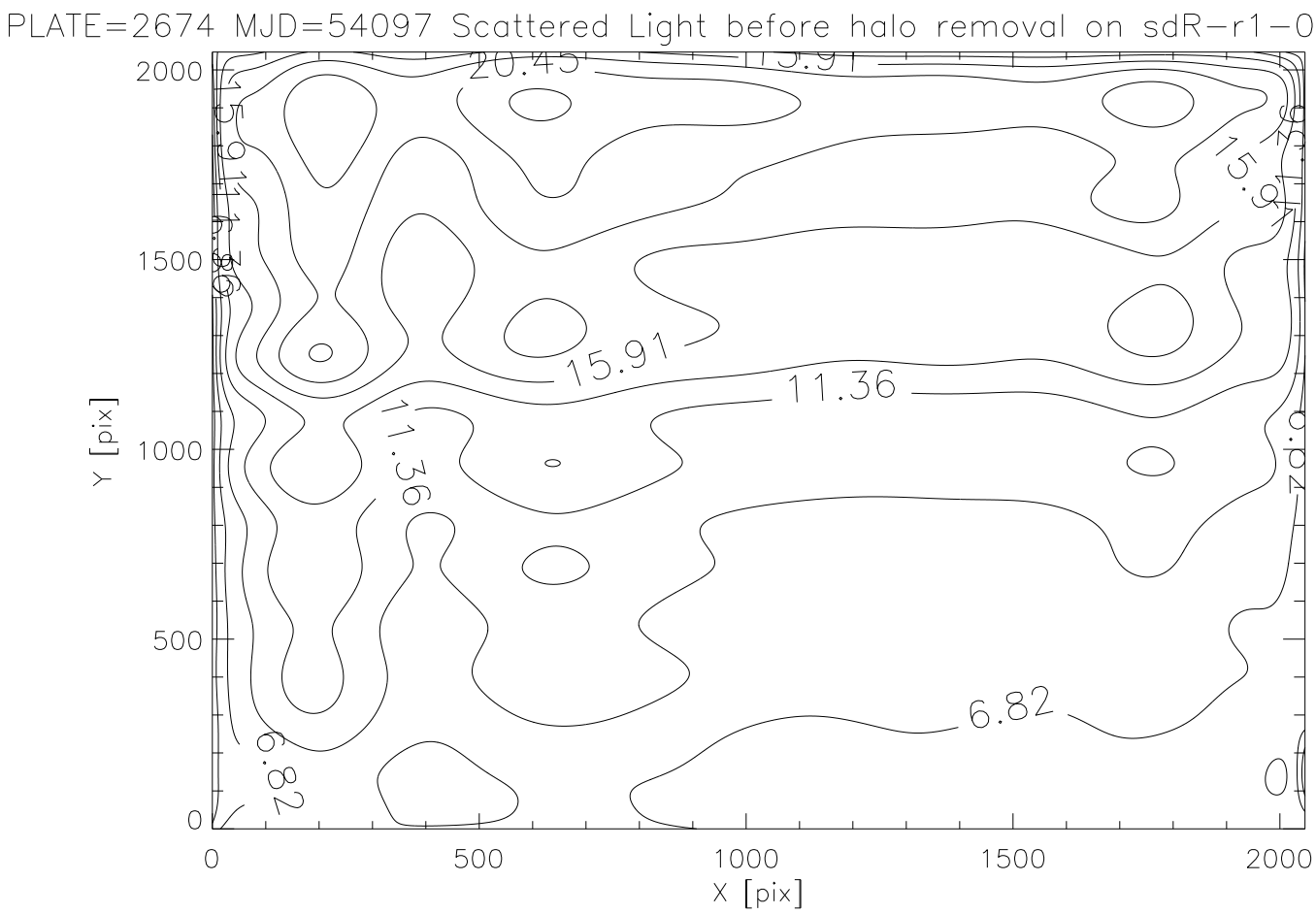

PLATE=2674 MJD=54097 Superflat sdR-r1-00042251.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

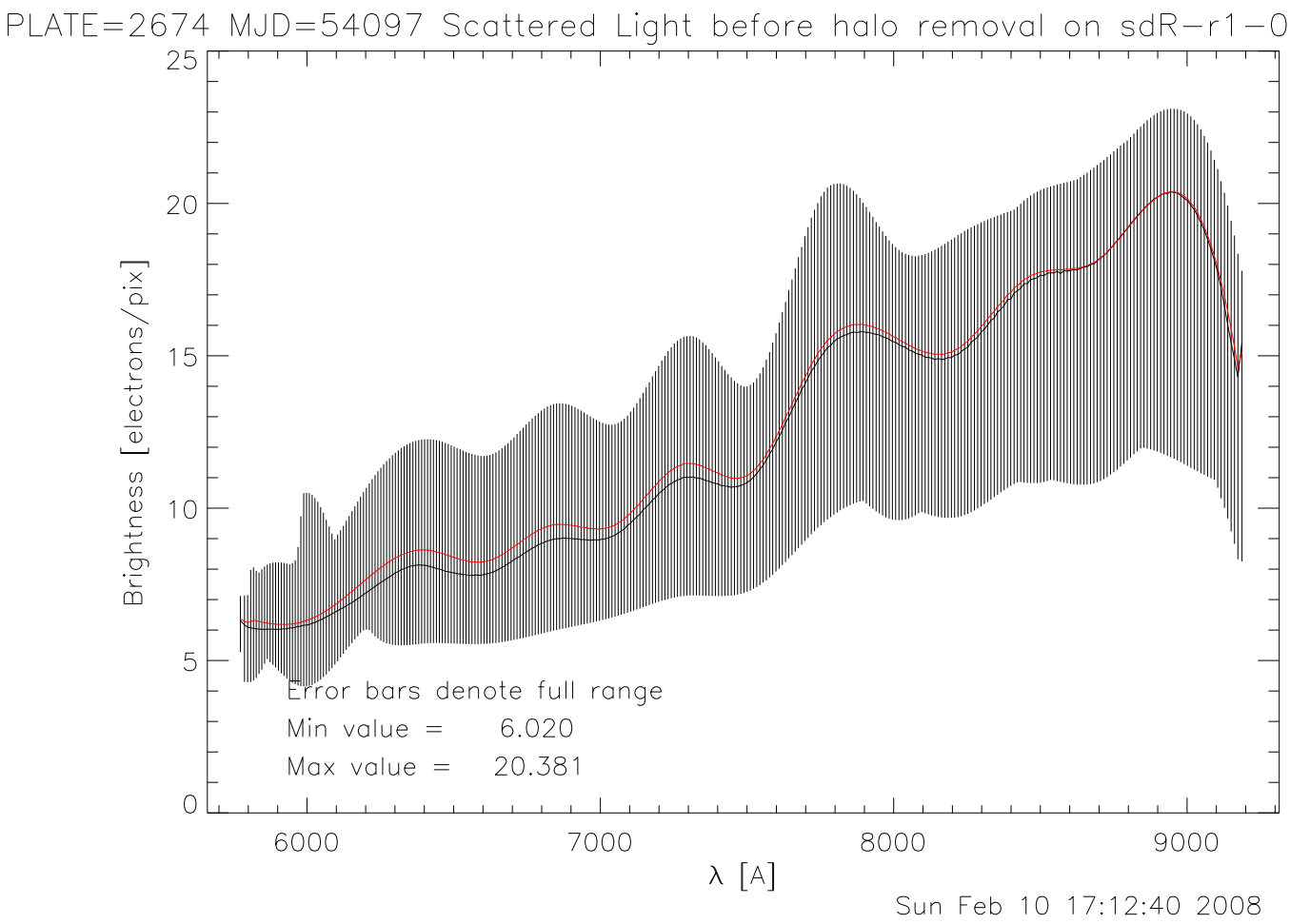

PLATE=2674 MJD=54097 flat extraction chi^2 for sdR−r1−00042256.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

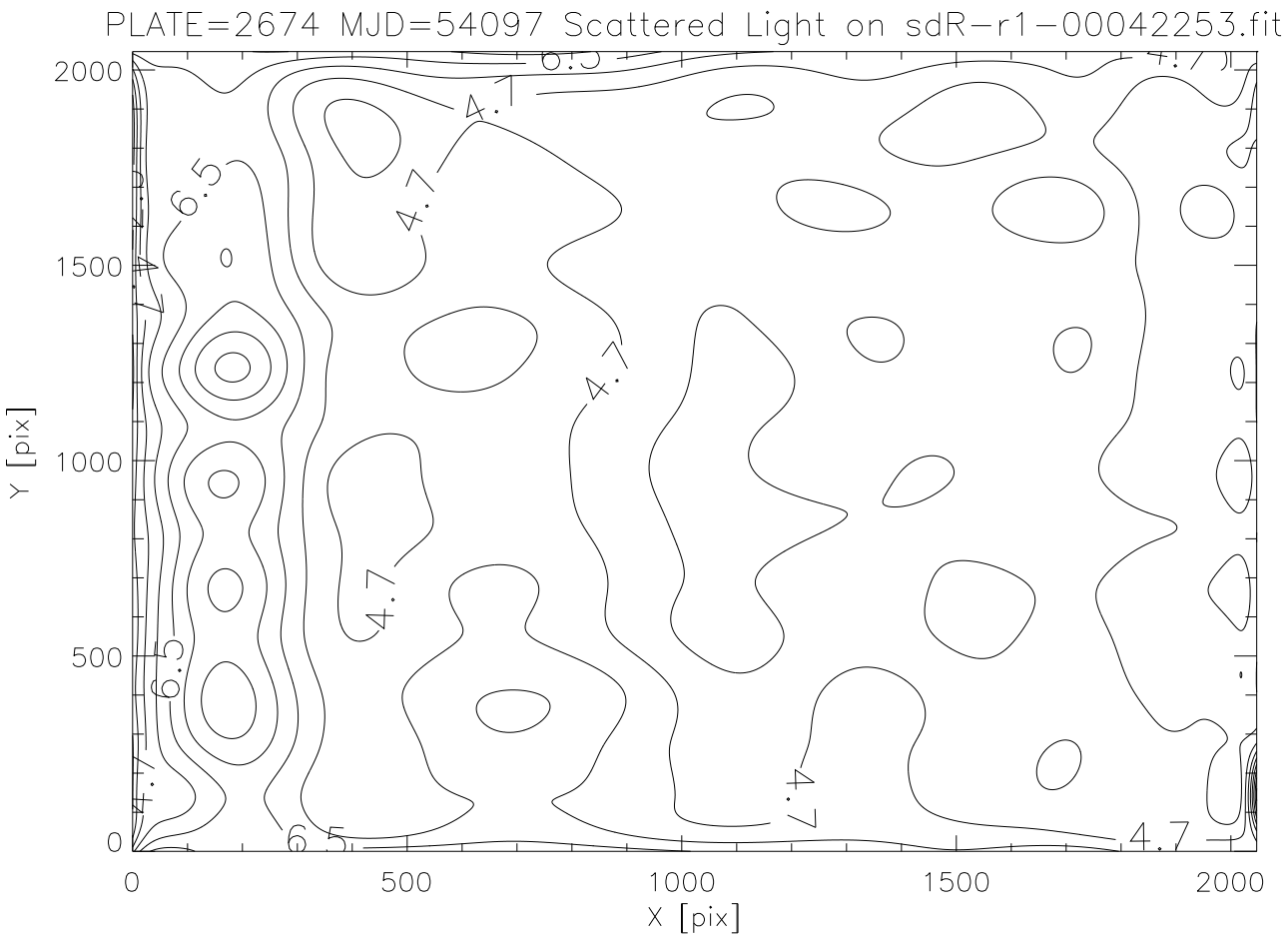

PLATE=2674 MJD=54097 Superflat sdR-r1-00042256.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

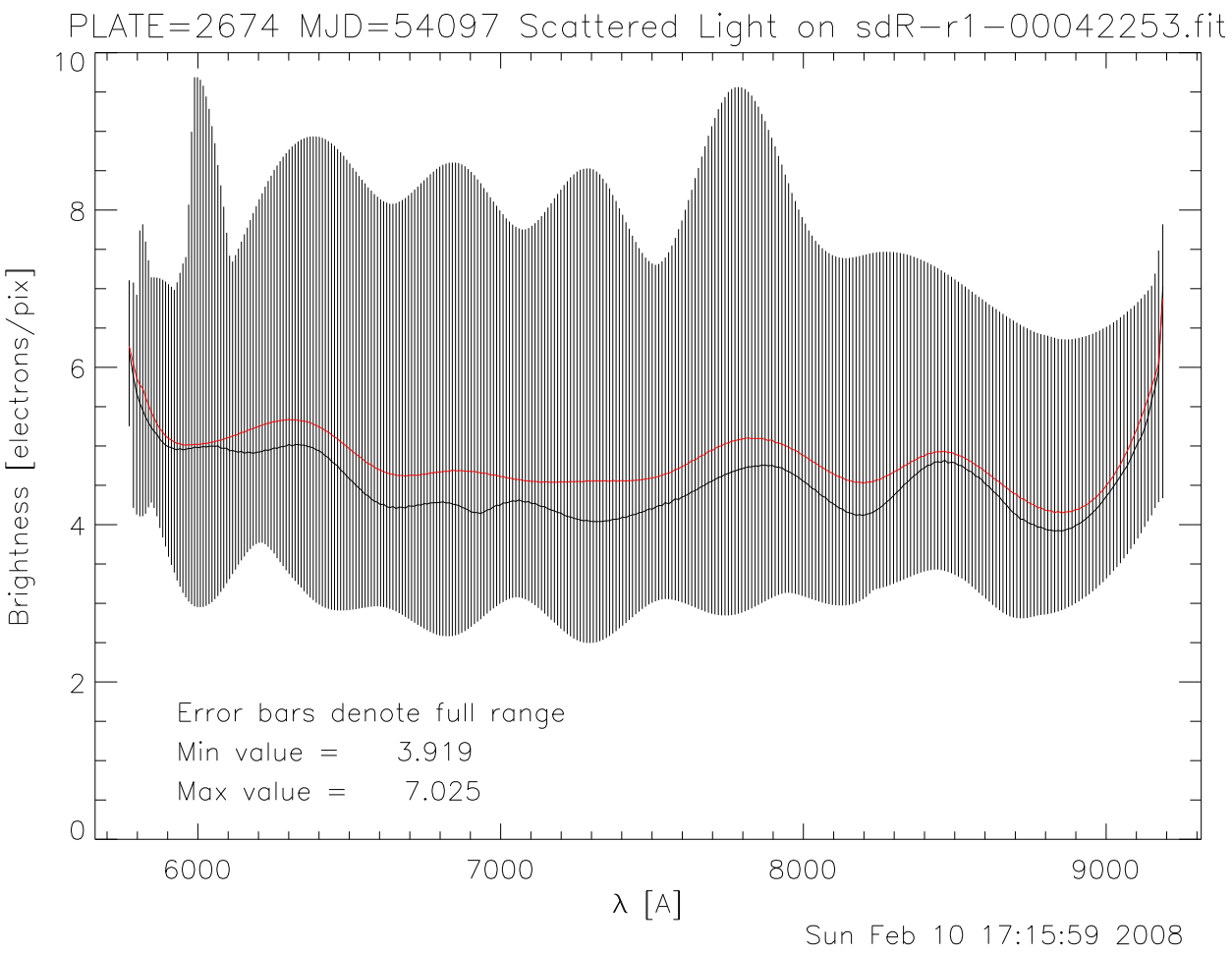

PLATE=2674 MJD=54097 Arcline Fit for sdR-r1-00042257.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Sun Feb 10 17:11:36 2008

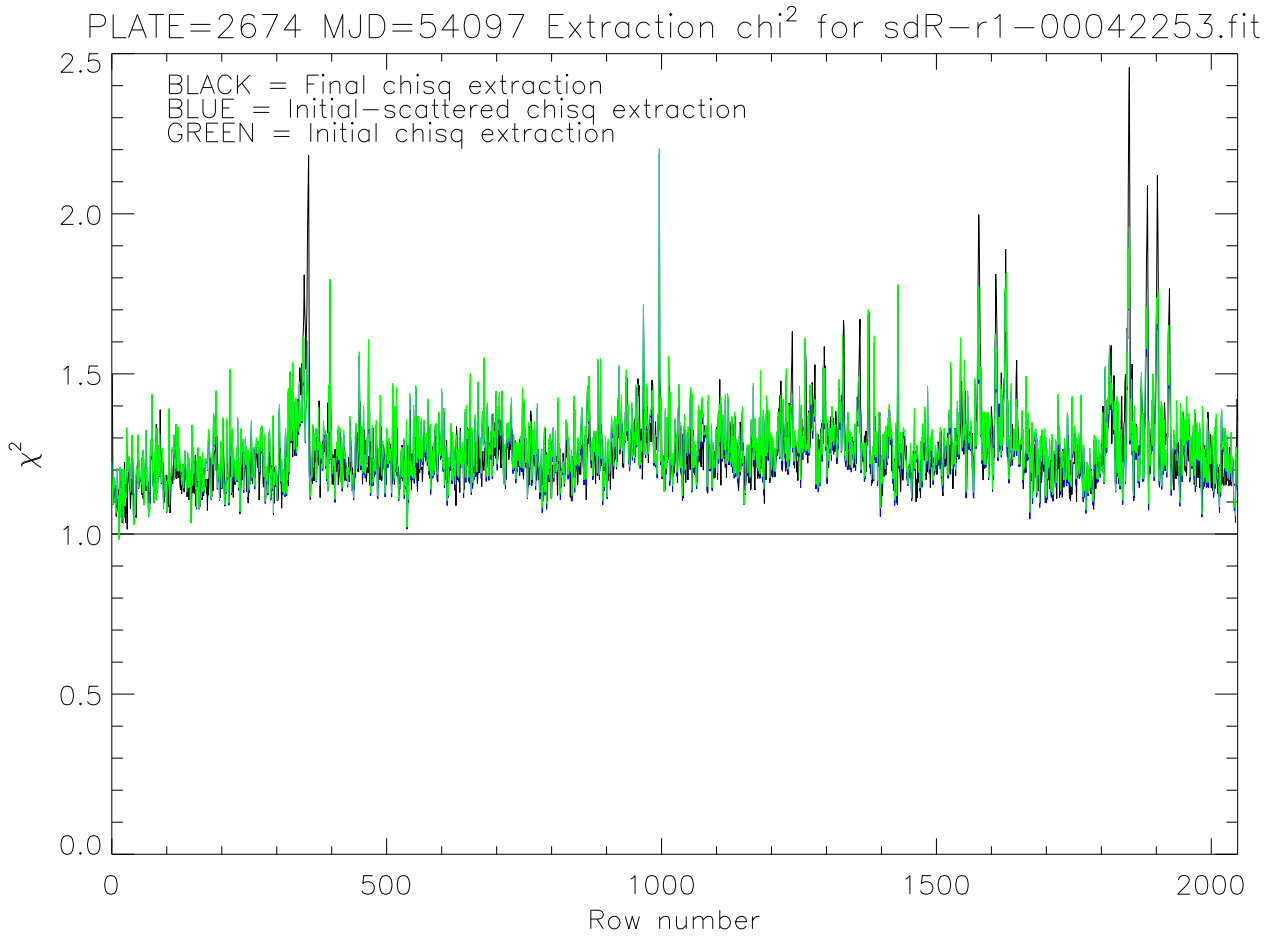

PLATE=2674 MJD=54097 Fiber−Flats for sdR−r1−00042256.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.457
Max value = 1.326
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sun Feb 10 17:11:45 2008

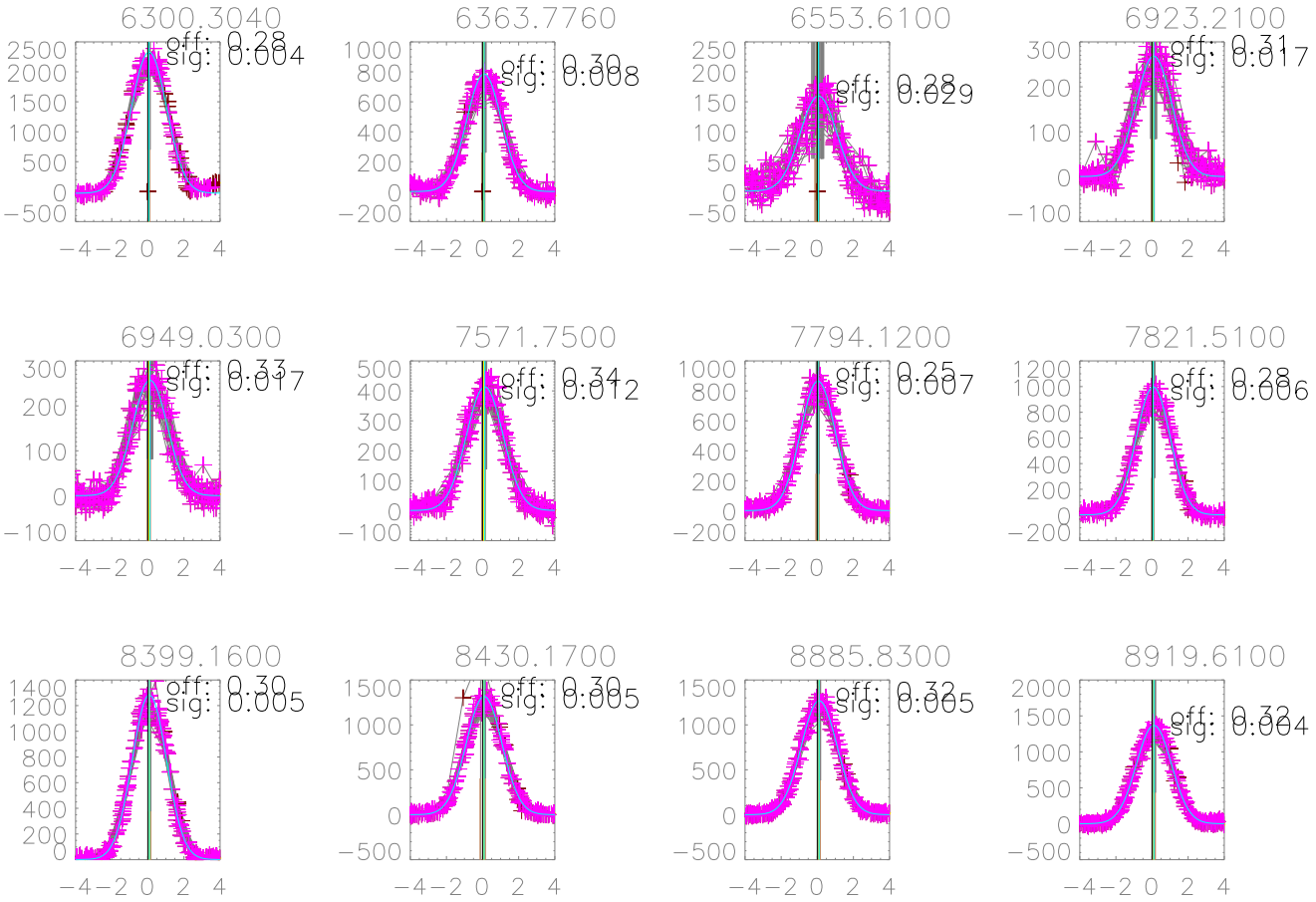

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR−r1−00042253.fi
20.45
15.91
11.36
6.82
0
Y [pix]
X [pix]
0
500
1000
1500
2000

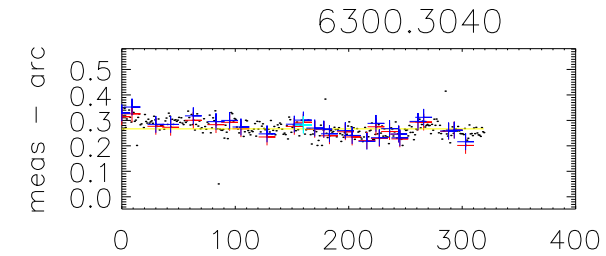

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR-r1-00042253.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.020
Max value = 20.381
Sun Feb 10 17:12:40 2008

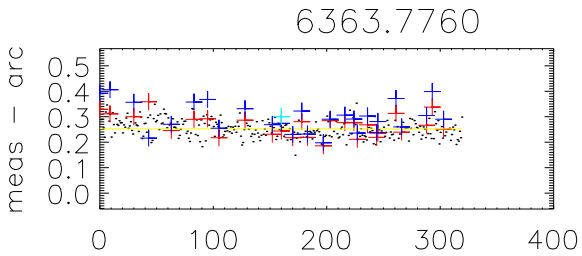

PLATE=2674 MJD=54097 Scattered Light on sdR-r1-00042253.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
6.5
4.7
4.1
0
-1

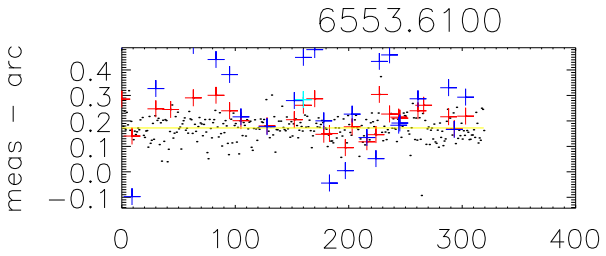

PLATE=2674 MJD=54097 Scattered Light on sdR-r1-00042253.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.919
Max value = 7.025
Sun Feb 10 17:15:59 2008

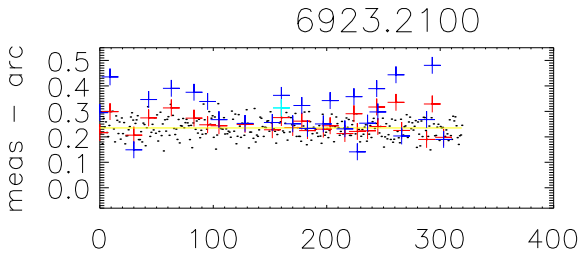

PLATE=2674 MJD=54097 Extraction chi^2 for sdR−r1−00042253.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

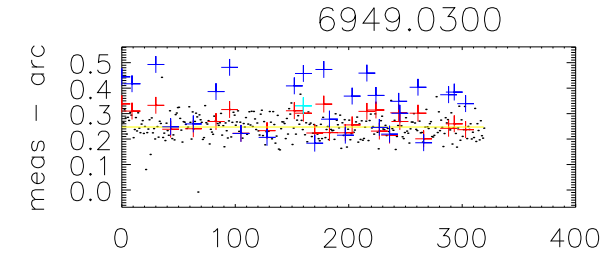

6300.3040
off: 0.28
sig: 0.004
6363.7760
off: 0.30
sig: 0.008
6553.6100
off: 0.28
sig: 0.029
6923.2100
off: 0.31
sig: 0.017
6949.0300
off: 0.33
sig: 0.017
7571.7500
off: 0.34
sig: 0.012
7794.1200
off: 0.25
sig: 0.007
7821.5100
off: 0.28
sig: 0.006
8399.1600
off: 0.30
sig: 0.005
8430.1700
off: 0.30
sig: 0.005
8885.8300
off: 0.32
sig: 0.005
8919.6100
off: 0.32
sig: 0.004

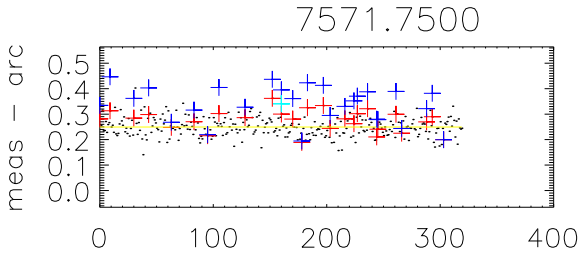

6300.3040
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

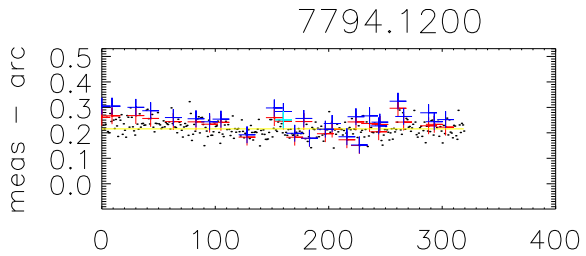

6363.7760
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

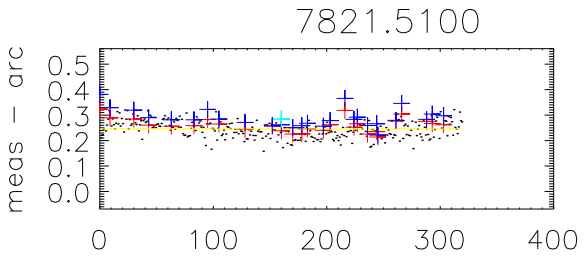

6553.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

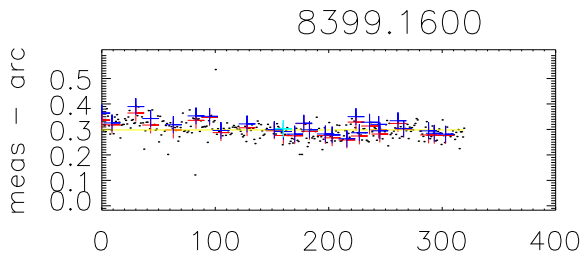

6923.2100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

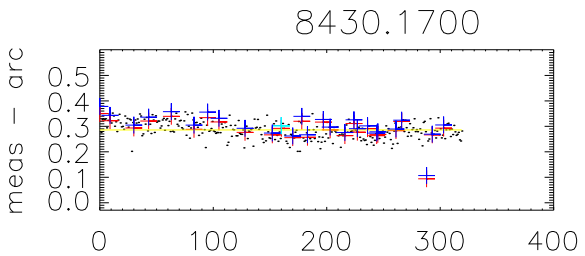

6949.0300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

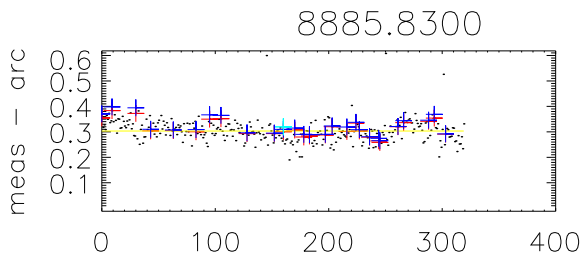

7571.7500
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

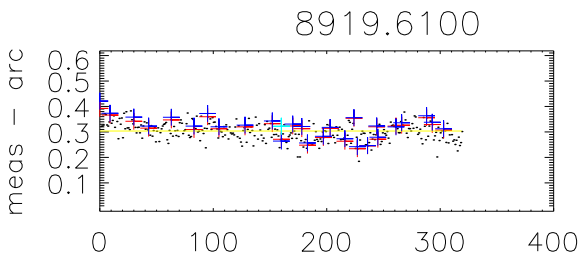

7794.1200
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

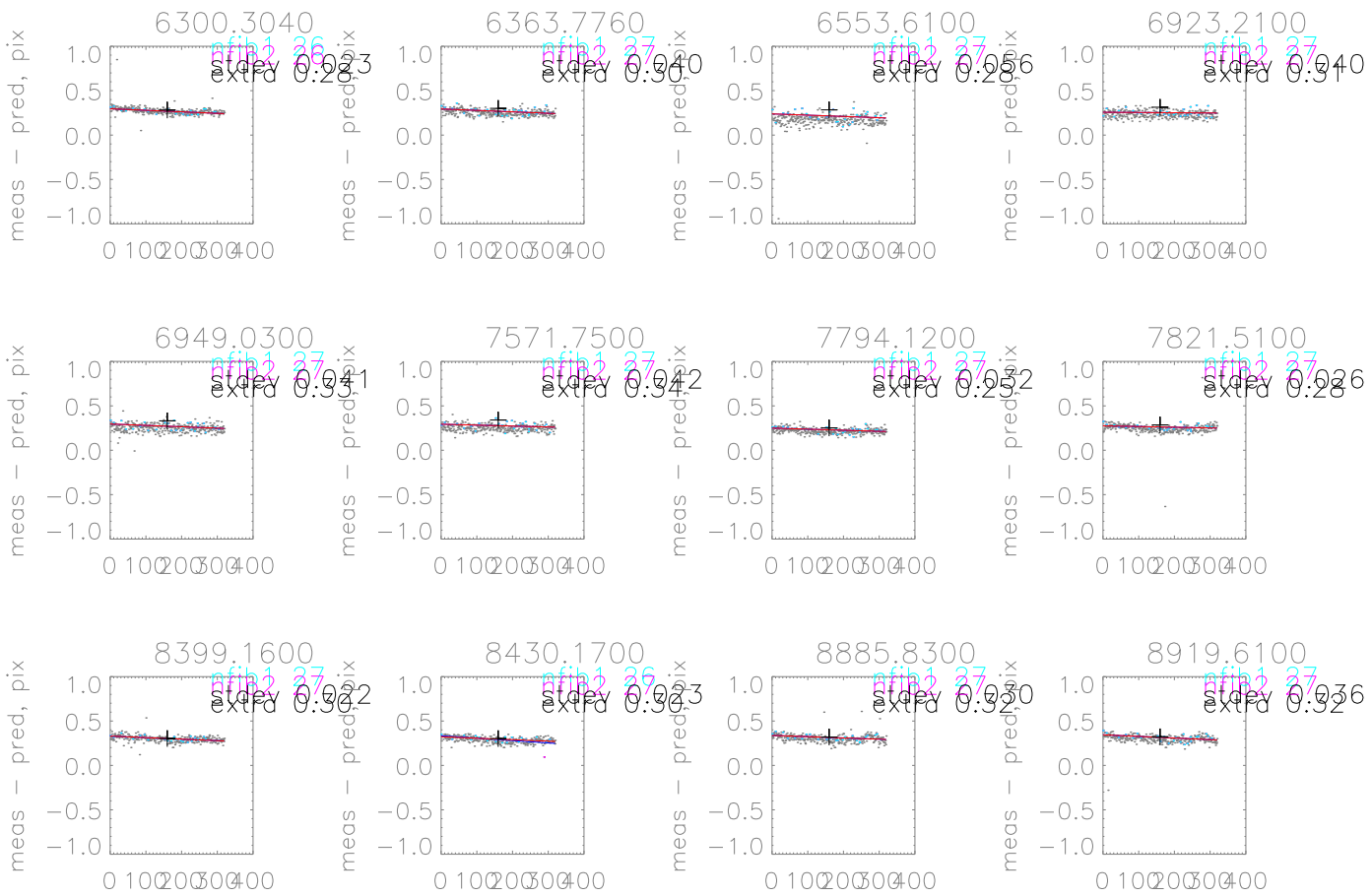

7821.5100
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

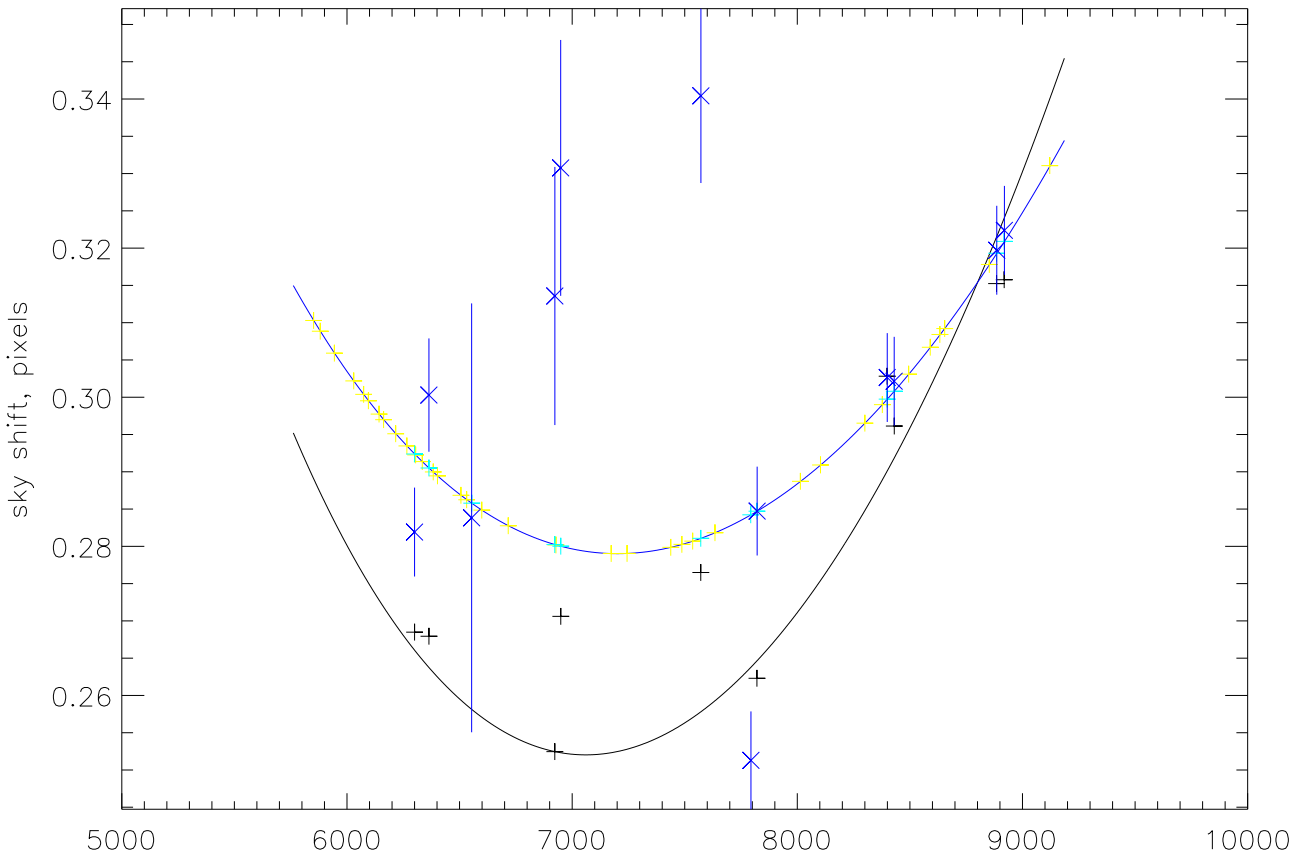

8399.1600
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400


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

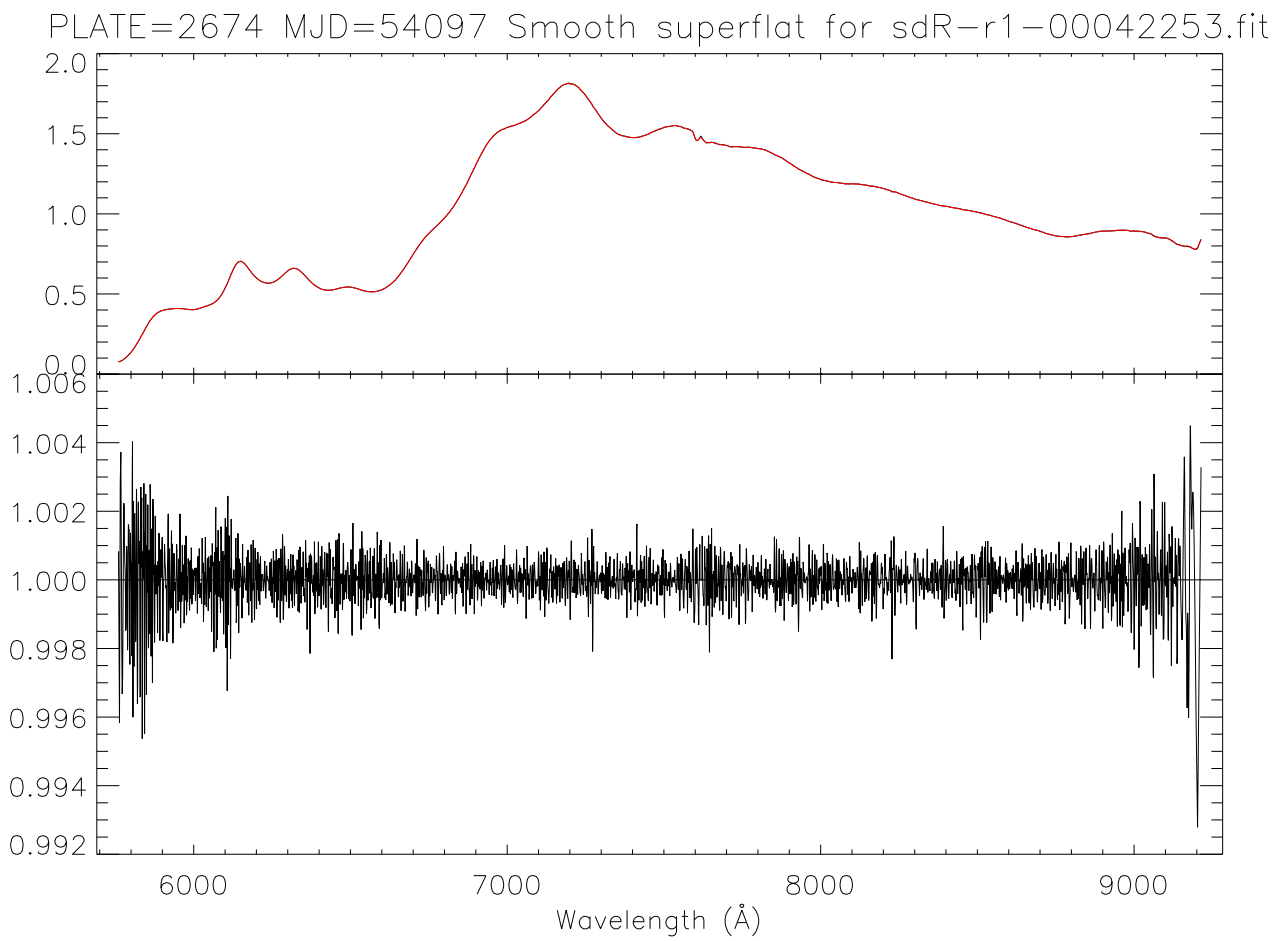

8885.8300
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

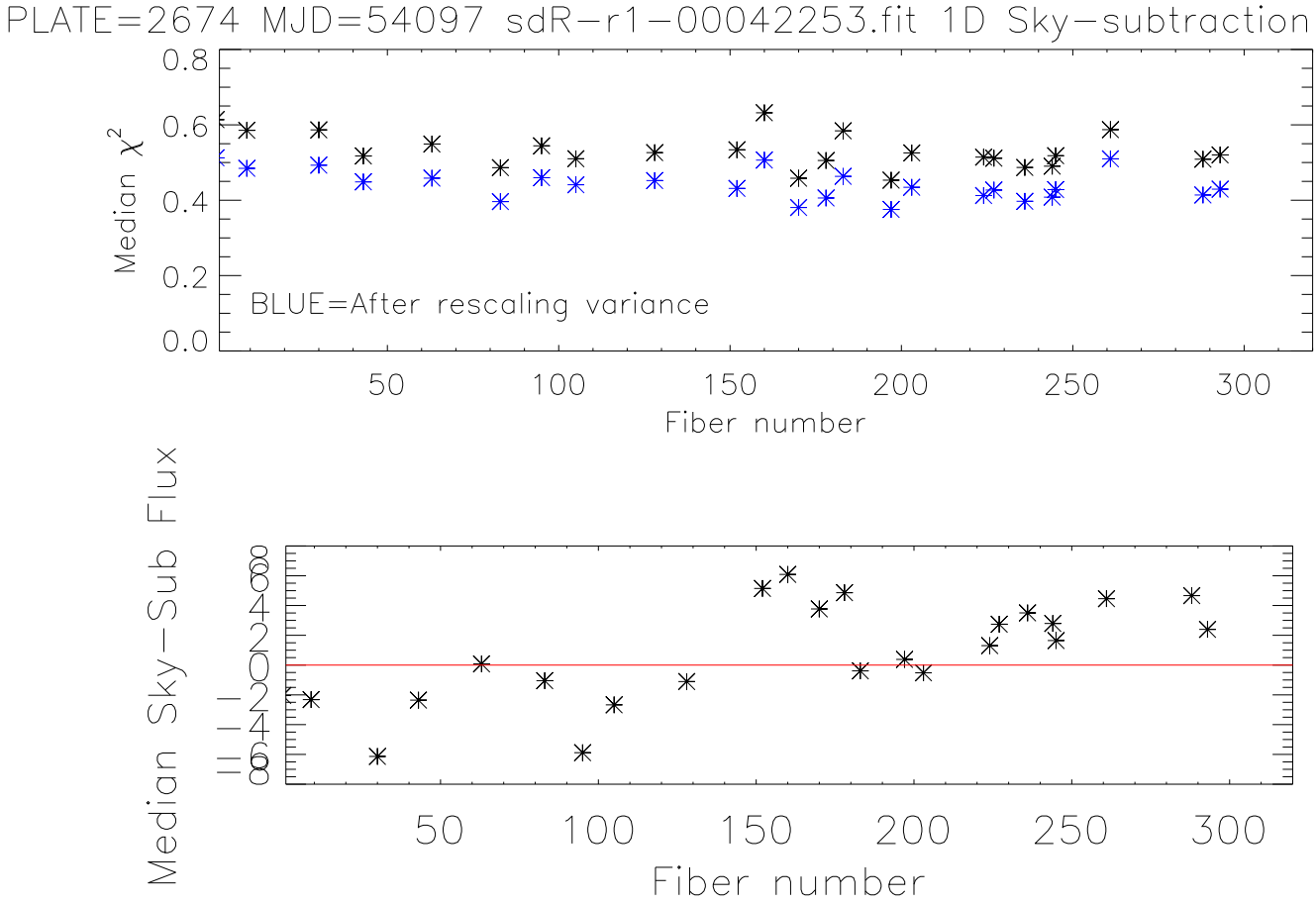

8919.6100
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400


6300.3040
mfb1 27
mfb2 26
stdev 0.023
extra 0.28
6363.7760
mfb1 27
mfb2 27
stdev 0.040
extra 0.30
6553.6100
mfb1 27
mfb2 27
stdev 0.056
extra 0.28
6923.2100
mfb1 27
mfb2 27
stdev 0.040
extra 0.31
6949.0300
mfb1 27
mfb2 27
stdev 0.041
extra 0.33
7571.7500
mfb1 27
mfb2 27
stdev 0.042
extra 0.34
7794.1200
mfb1 27
mfb2 27
stdev 0.032
extra 0.25
7821.5100
mfb1 27
mfb2 27
stdev 0.026
extra 0.28
8399.1600
mfb1 27
mfb2 27
stdev 0.022
extra 0.30
8430.1700
mfb1 27
mfb2 26
stdev 0.023
extra 0.30
8885.8300
mfb1 27
mfb2 27
stdev 0.030
extra 0.32
8919.6100
mfb1 27
mfb2 27
stdev 0.036
extra 0.32
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

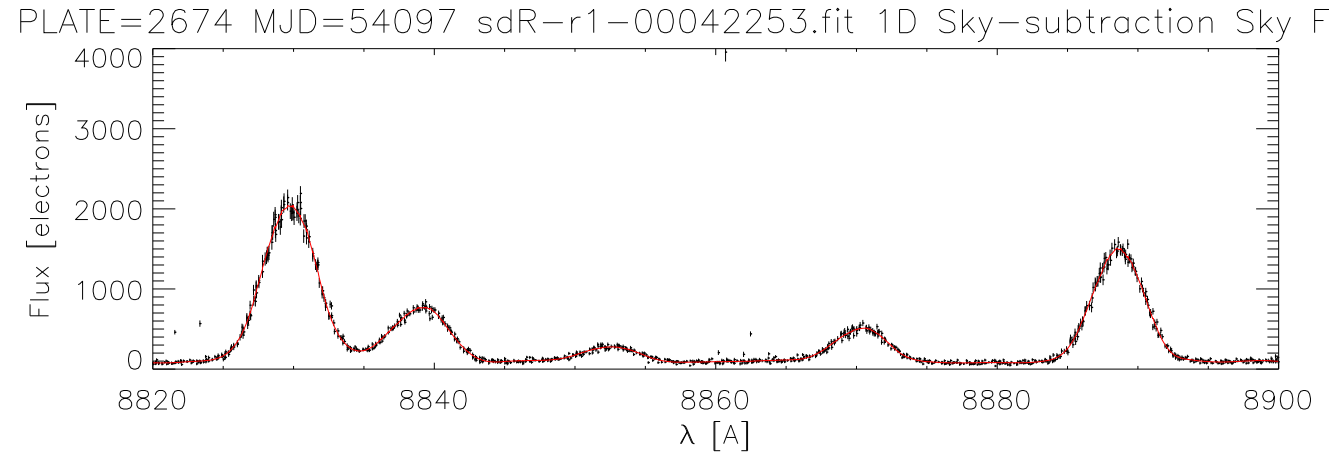

sky shift, pixels
0.34
0.32
0.30
0.28
0.26
5000
6000
7000
8000
9000
10000

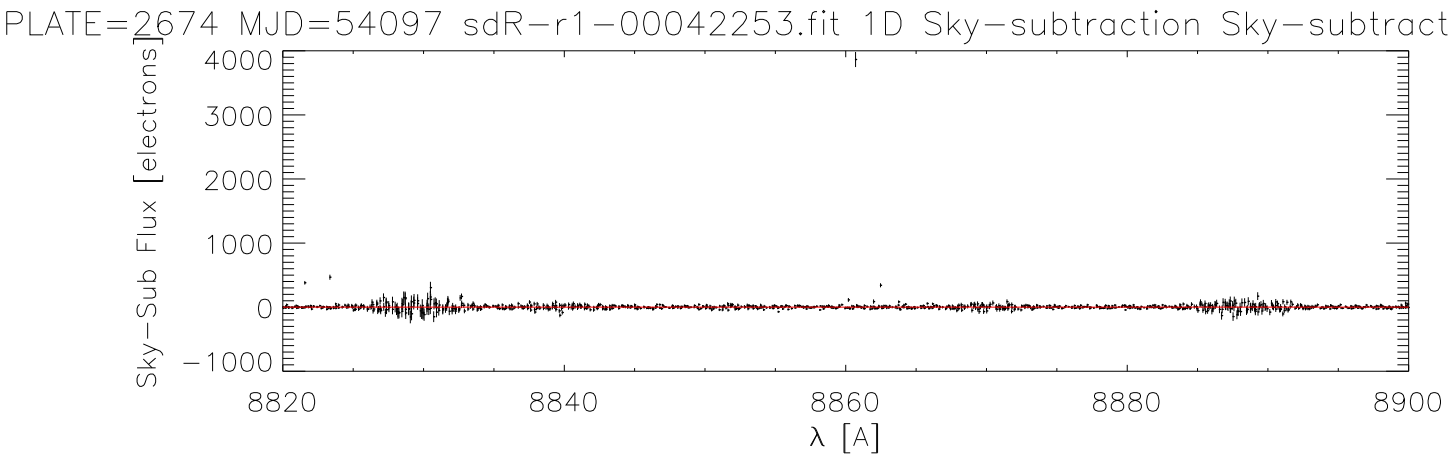
es= 0.0000

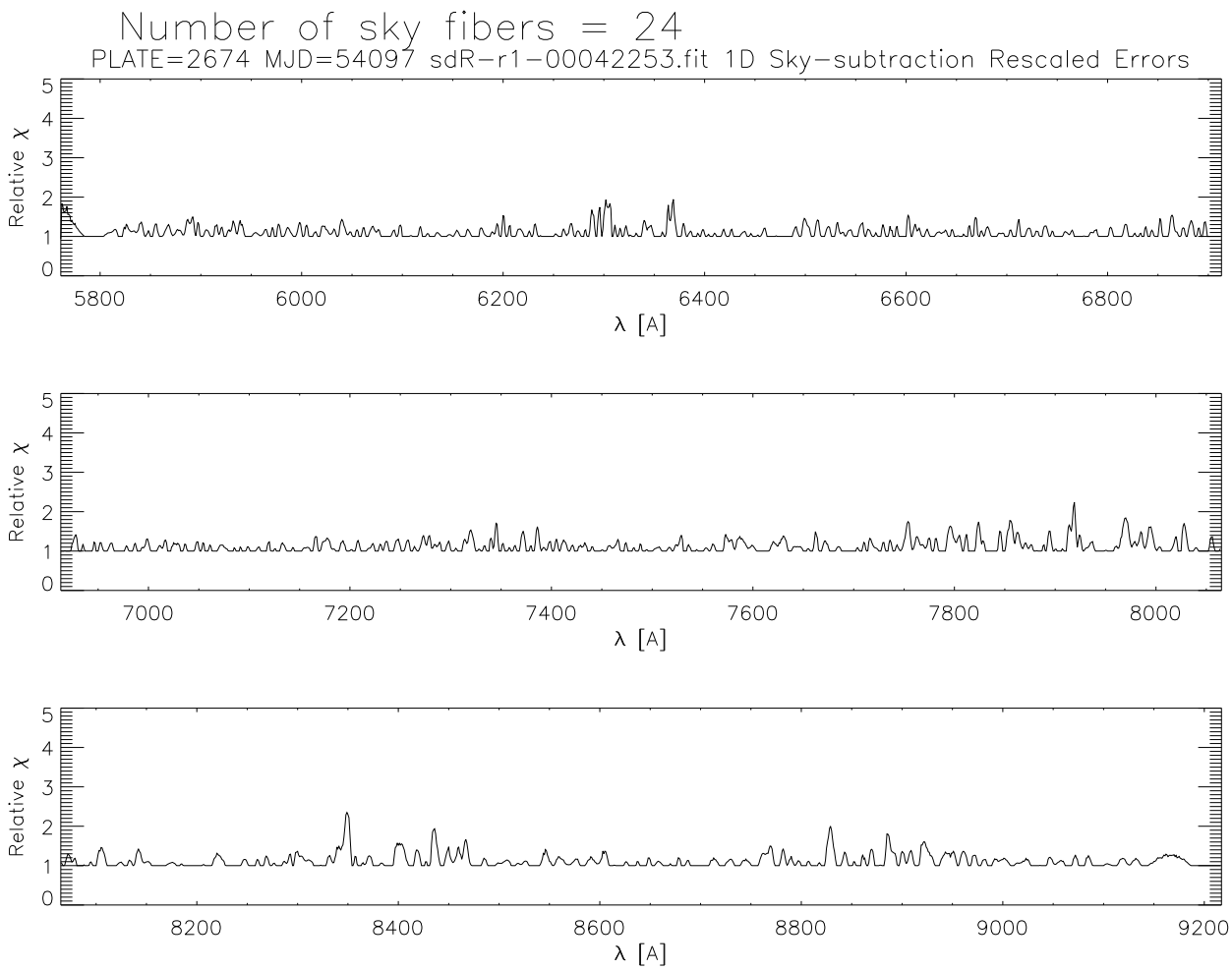

PLATE=2674 MJD=54097 Smooth superflat for sdR-r1-00042253.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
6000
7000
8000
9000
Wavelength (Å)

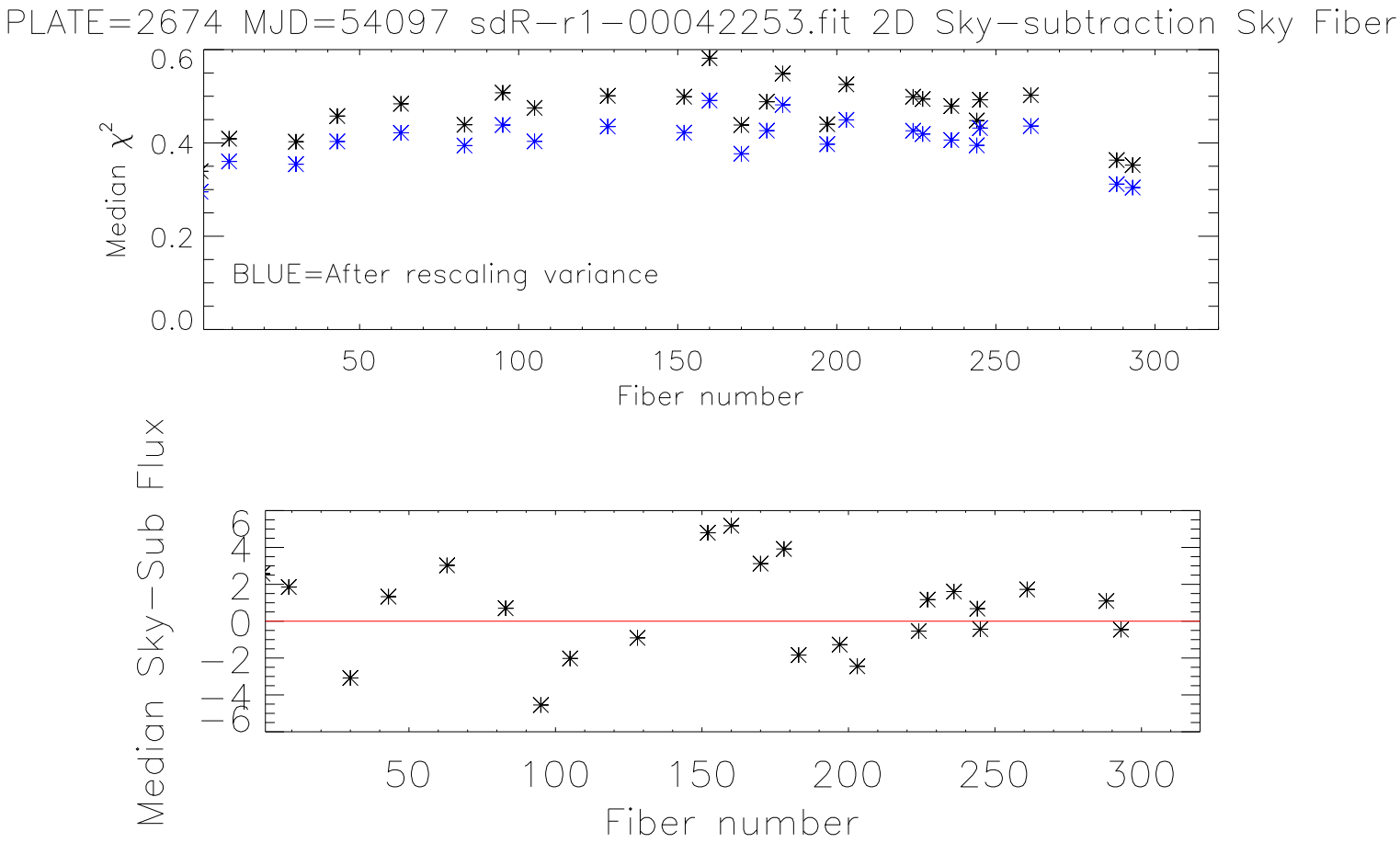

PLATE=2674 MJD=54097 sdR-r1-00042253.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

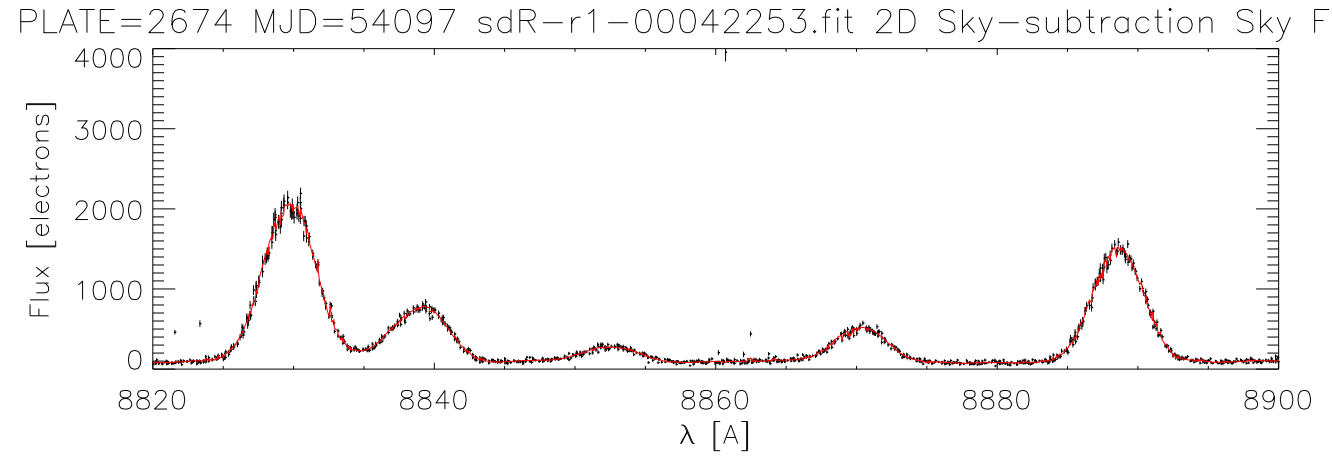
Median Sky-Sub Flux
Fiber number

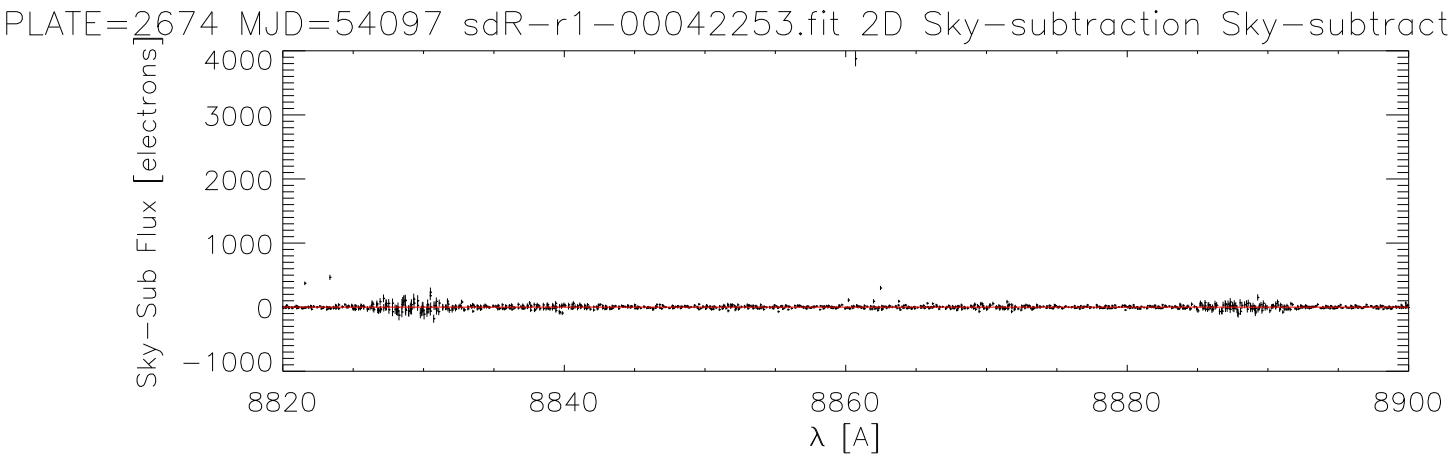

PLATE=2674 MJD=54097 sdR-r1-00042253.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

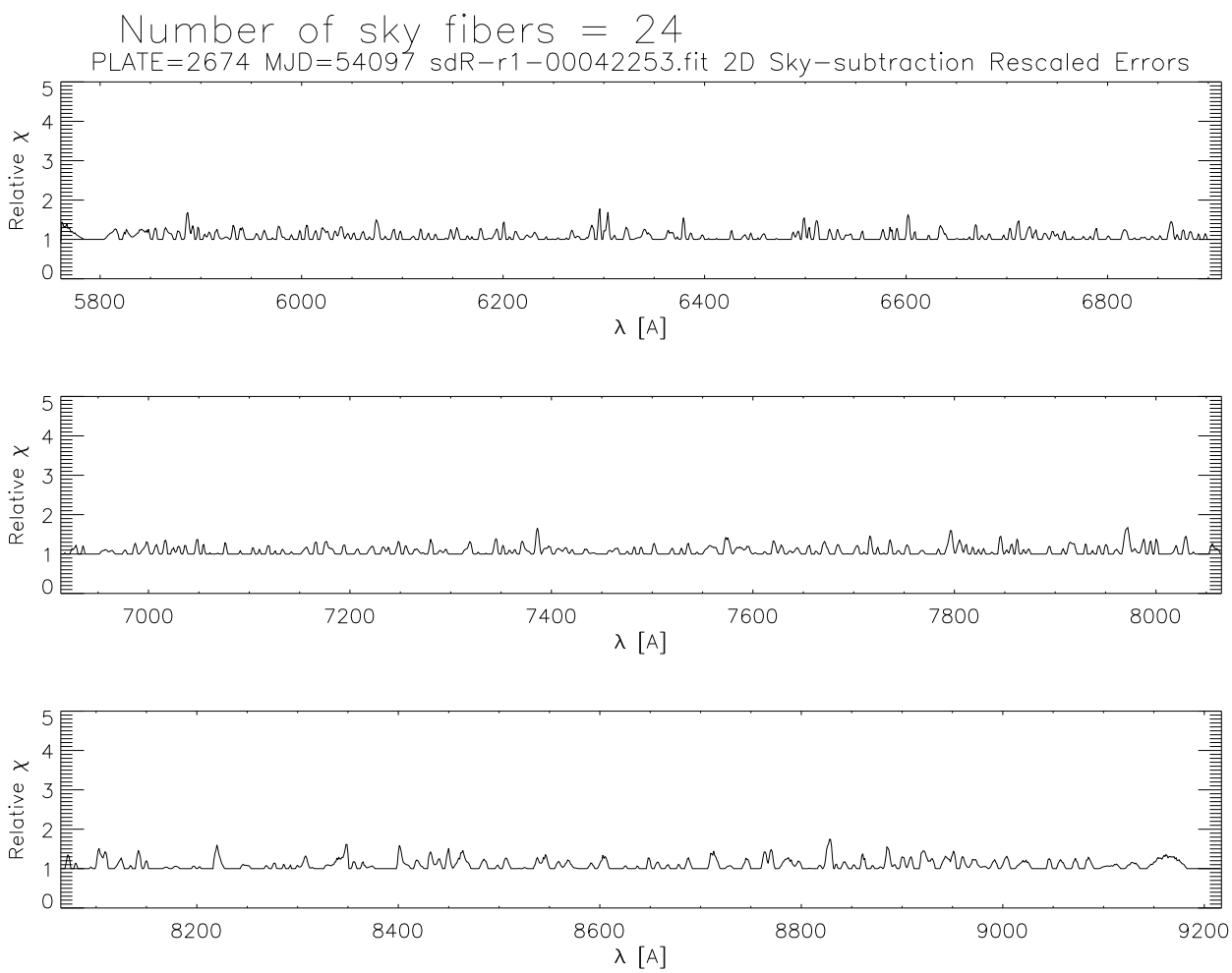

PLATE=2674 MJD=54097 sdR-r1-00042253.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

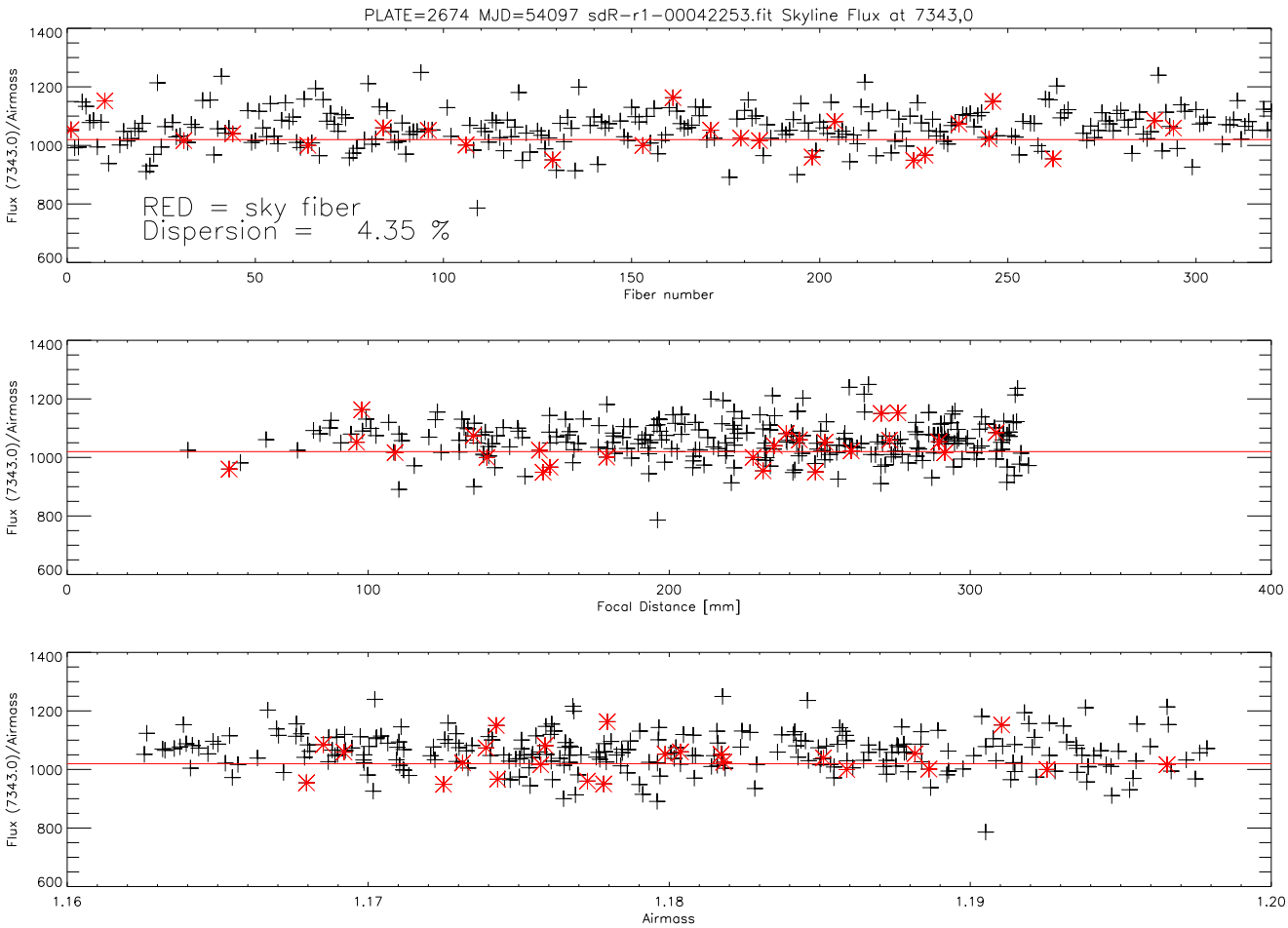

Number of sky fibers = 24
PLATE=2674 MJD=54097 sdR-r1-00042253.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

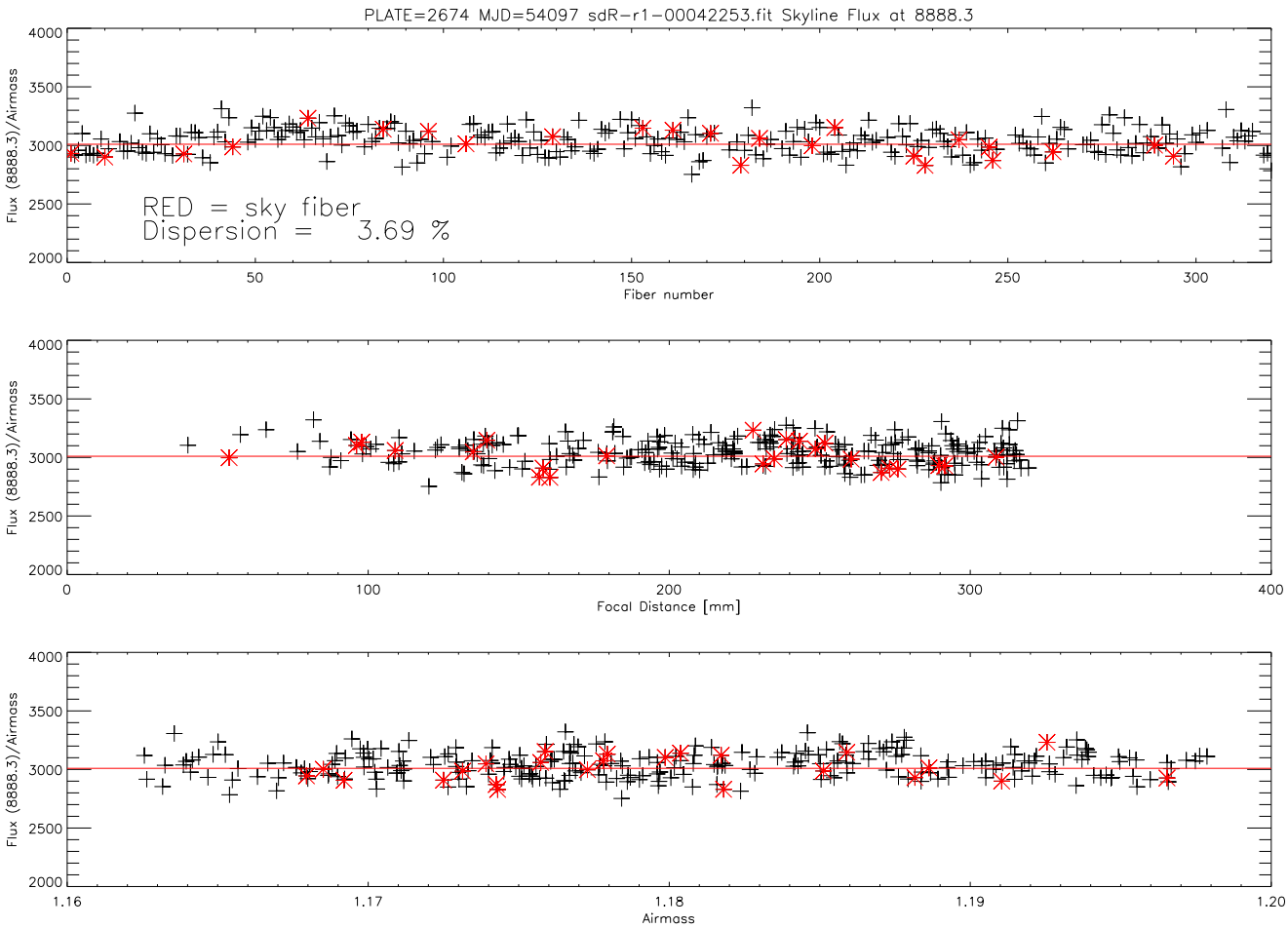

PLATE=2674 MJD=54097 sdR-r1-00042253.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

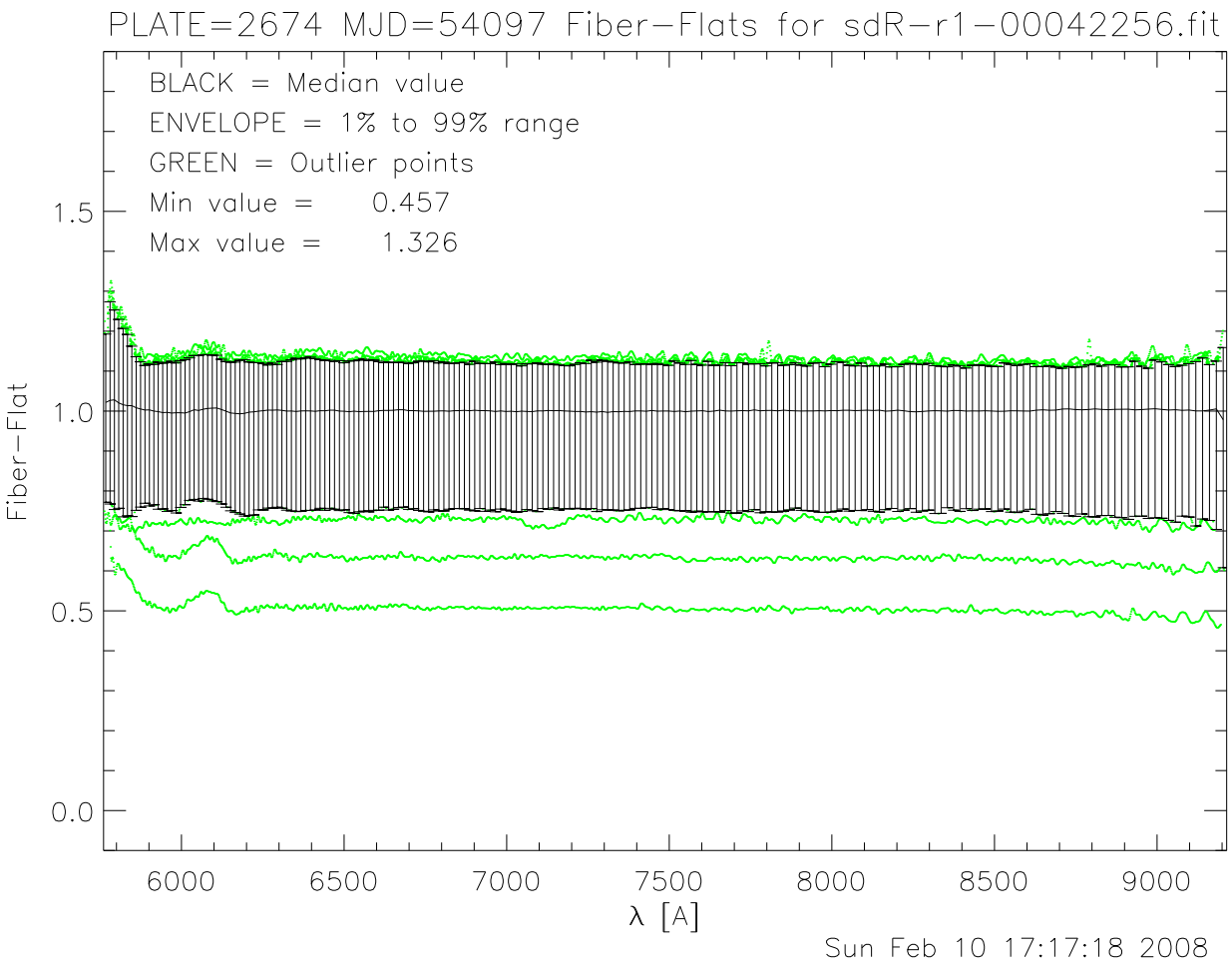

PLATE=2674 MJD=54097 sdR-r1-00042253.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

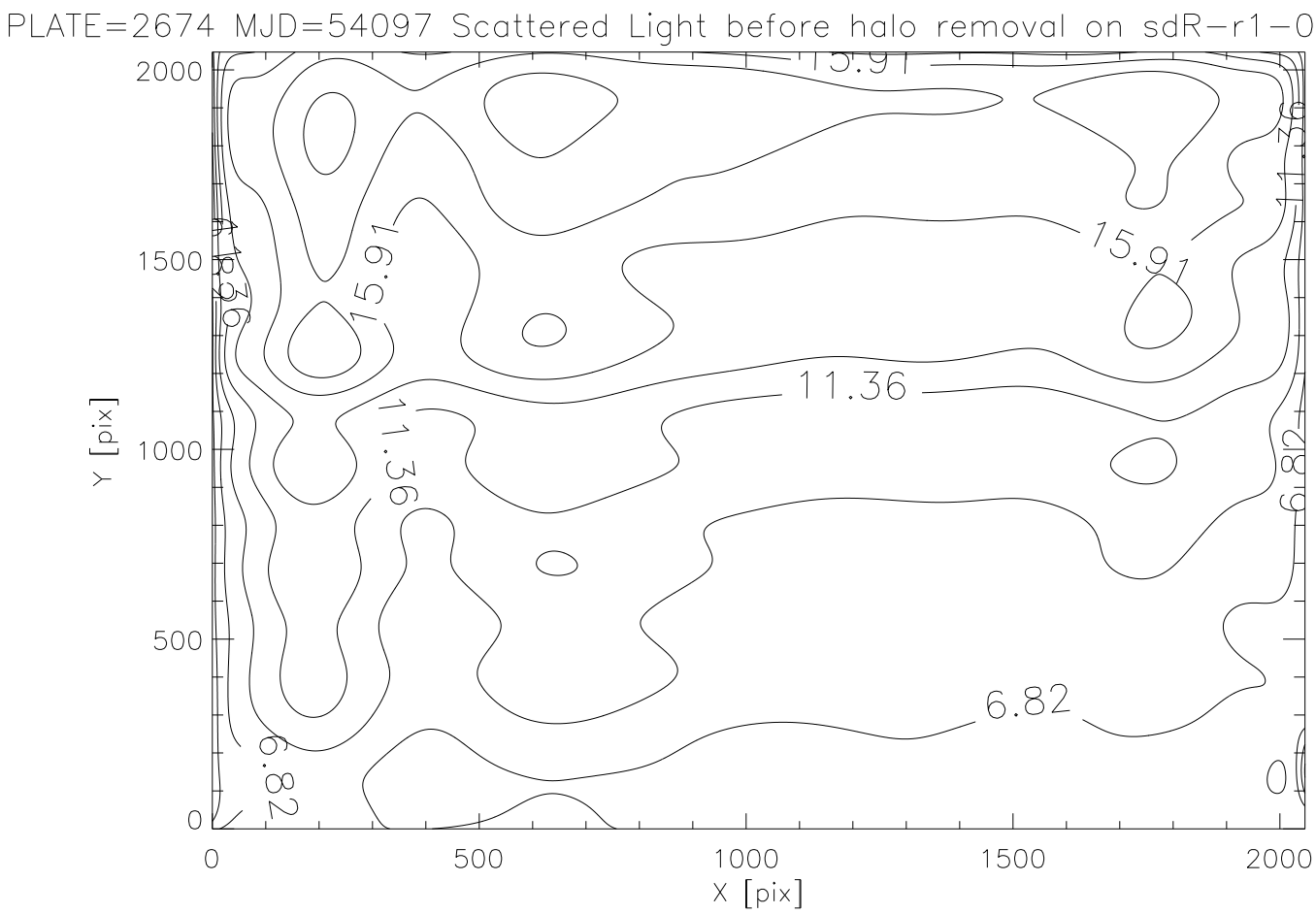

PLATE=2674 MJD=54097 sdR-r1-00042253.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

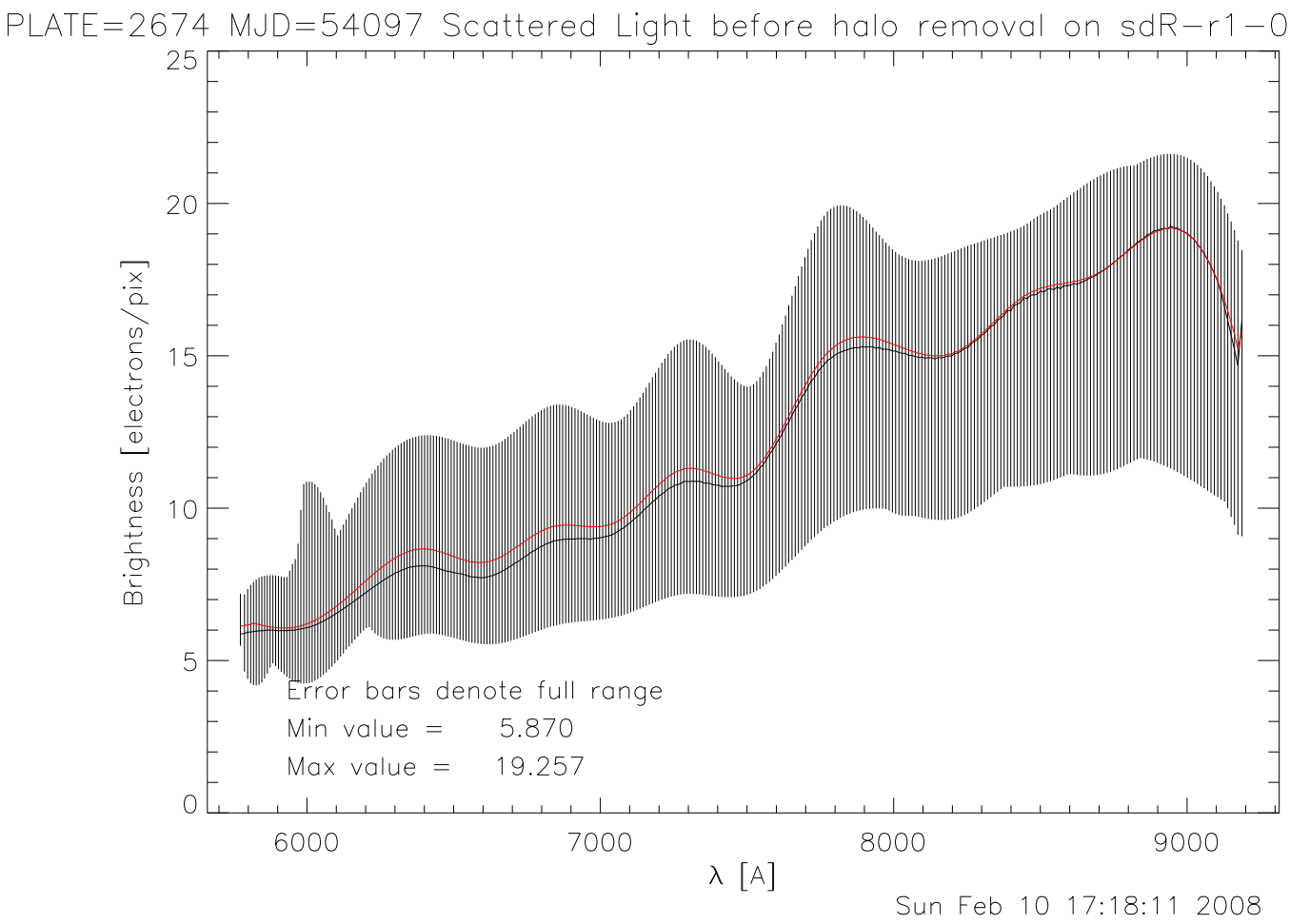

Number of sky fibers = 24
PLATE=2674 MJD=54097 sdR-r1-00042253.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

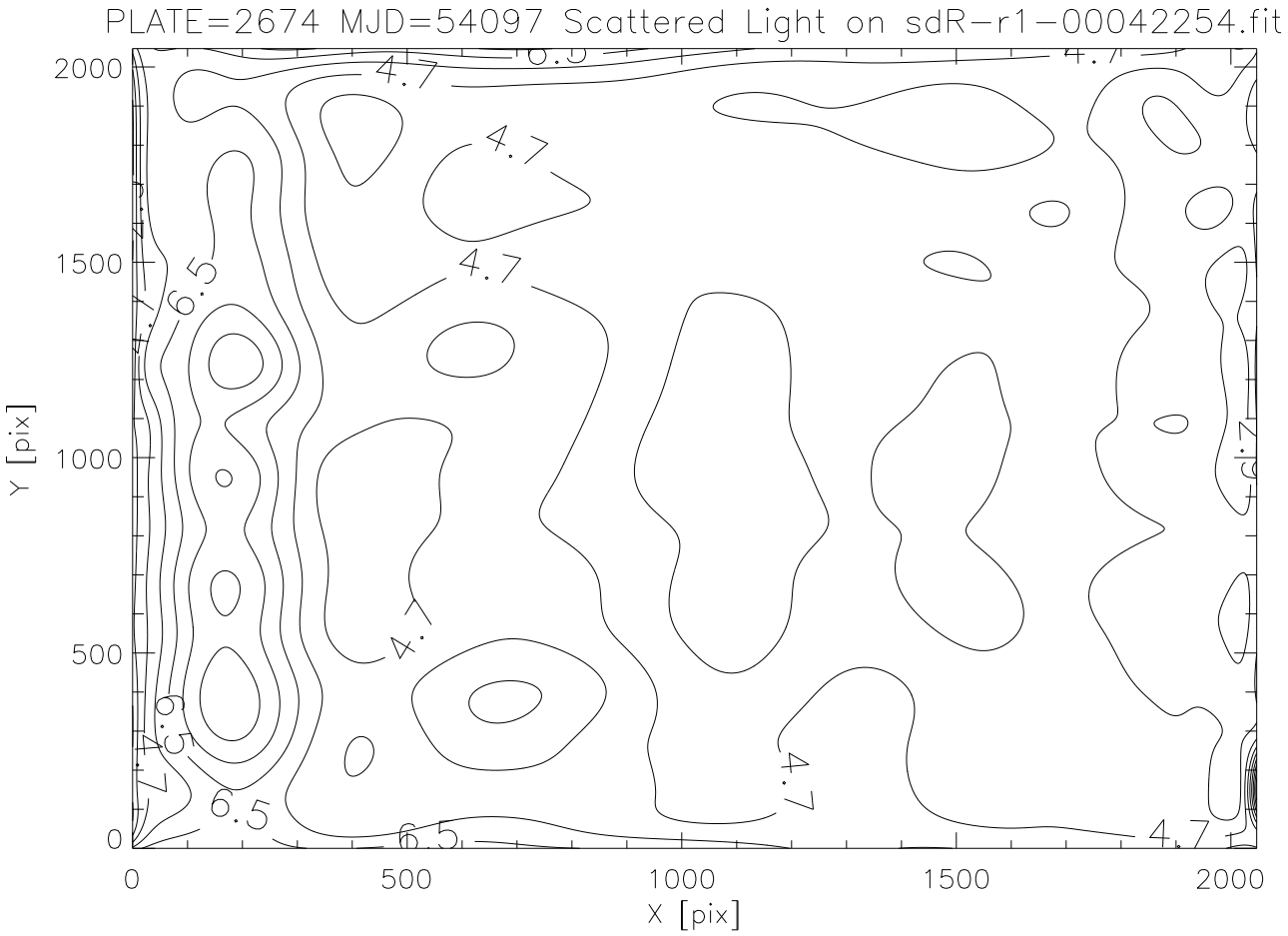

PLATE=2674 MJD=54097 sdR-r1-00042253.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 4.35 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

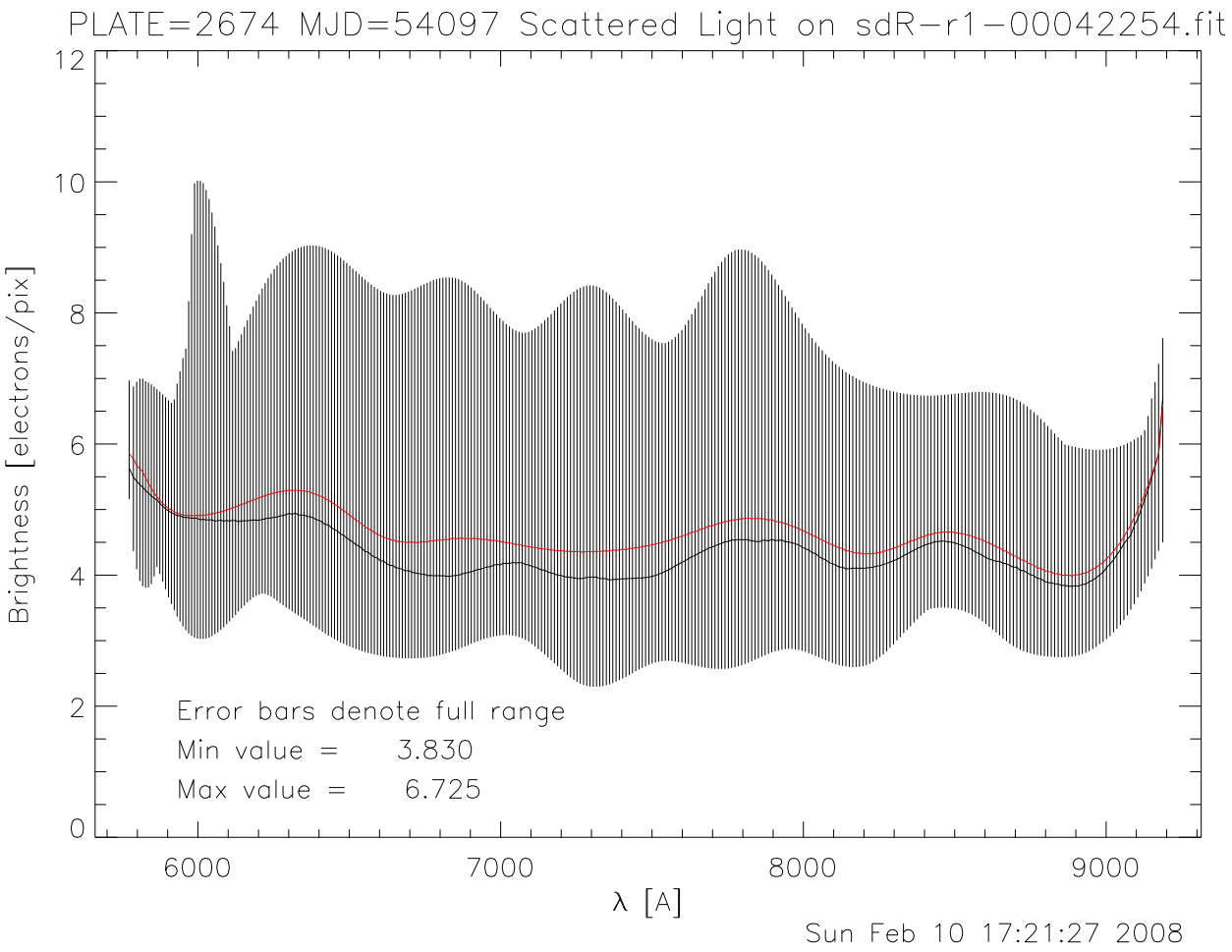

PLATE=2674 MJD=54097 sdR-r1-00042253.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.69 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

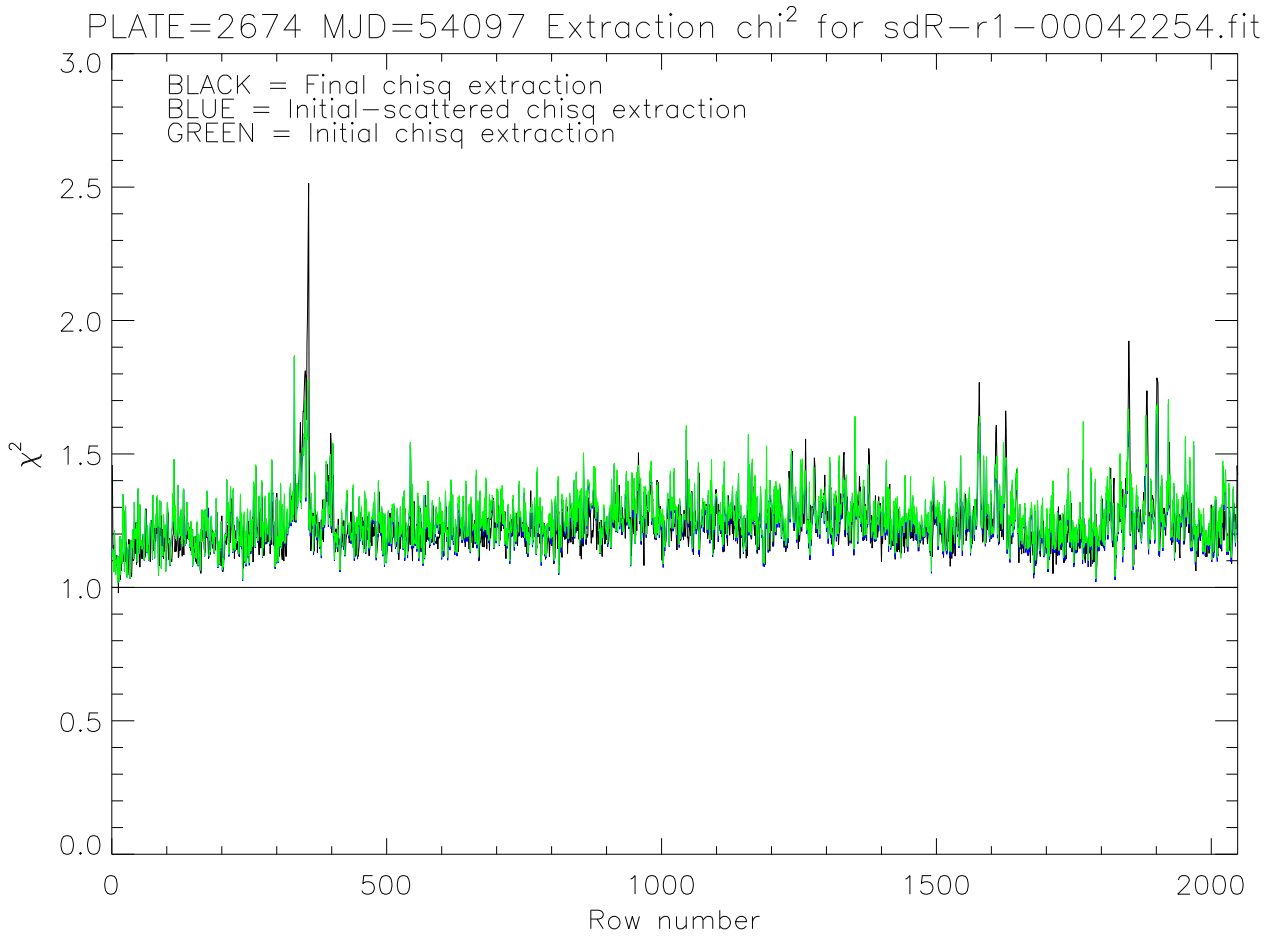

PLATE=2674 MJD=54097 Fiber−Flats for sdR−r1−00042256.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.457
Max value = 1.326
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sun Feb 10 17:17:18 2008

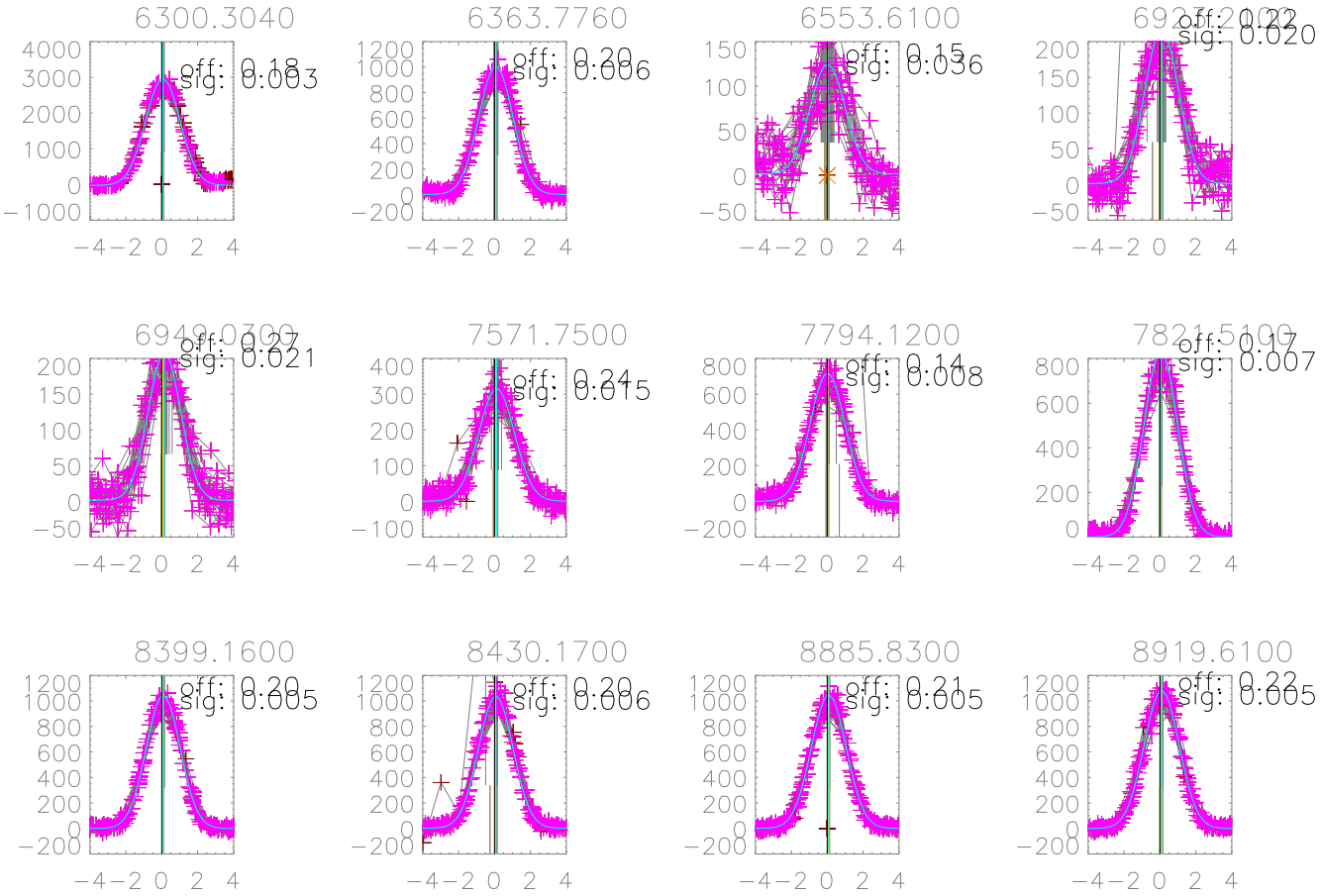

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR-r1-00042254.fi
15.91
15.91
15.91
11.36
11.36
11.36
6.82
6.82
6.82
0
0
500
1000
1500
2000
X [pix]
Y [pix]

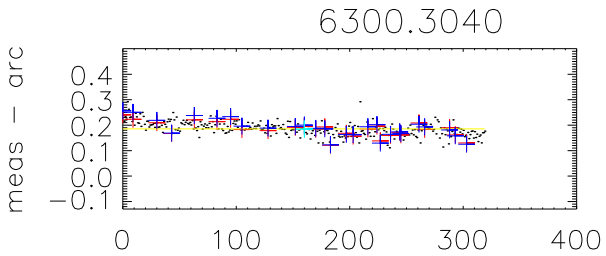

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR-r1-00042254.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.870
Max value = 19.257
Sun Feb 10 17:18:11 2008

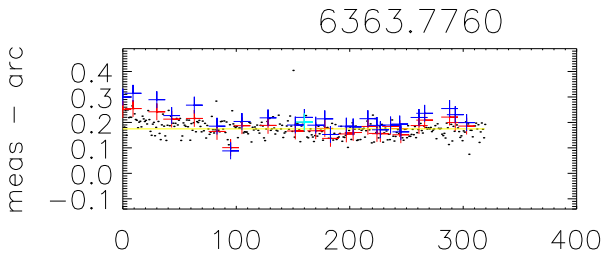

PLATE=2674 MJD=54097 Scattered Light on sdR-r1-00042254.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
4.7
6.5

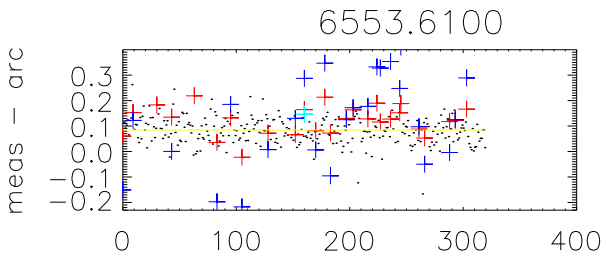

PLATE=2674 MJD=54097 Scattered Light on sdR-r1-00042254.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.830
Max value = 6.725
Sun Feb 10 17:21:27 2008

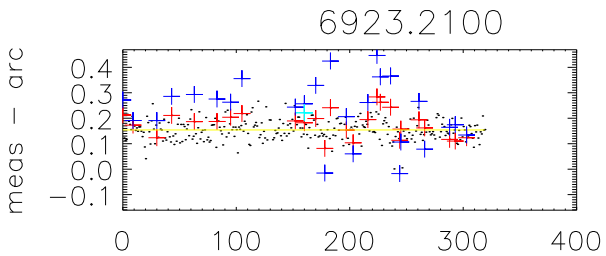

PLATE=2674 MJD=54097 Extraction chi^2 for sdR−r1−00042254.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

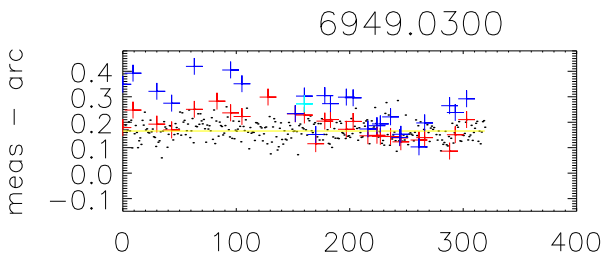

6300.3040
off: 0.18
sig: 0.003
6363.7760
off: 0.20
sig: 0.006
6553.6100
off: 0.15
sig: 0.036
6927.2000
off: 0.22
sig: 0.020
6949.0300
off: 0.27
sig: 0.021
7571.7500
off: 0.24
sig: 0.015
7794.1200
off: 0.14
sig: 0.008
7821.5100
off: 0.17
sig: 0.007
8399.1600
off: 0.20
sig: 0.005
8430.1700
off: 0.20
sig: 0.006
8885.8300
off: 0.21
sig: 0.005
8919.6100
off: 0.22
sig: 0.005

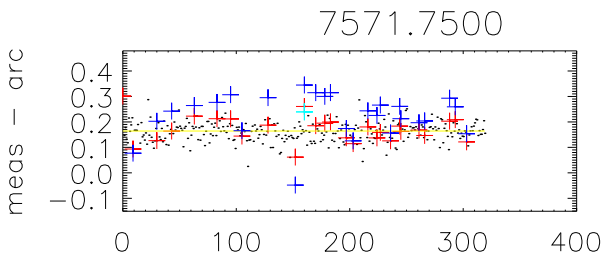

6300.3040
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

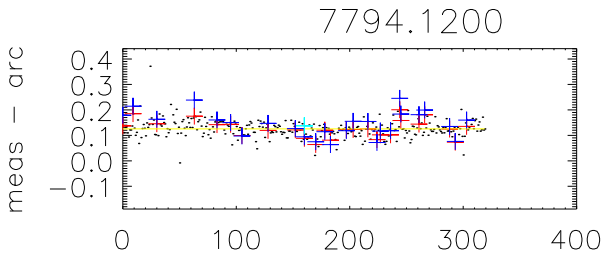

6363.7760
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

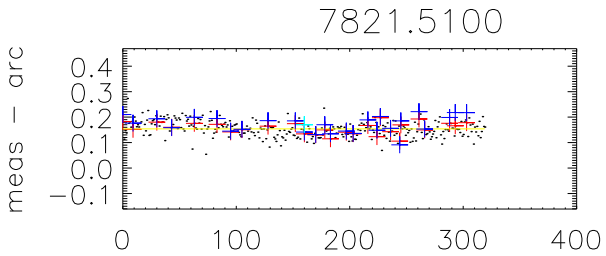

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

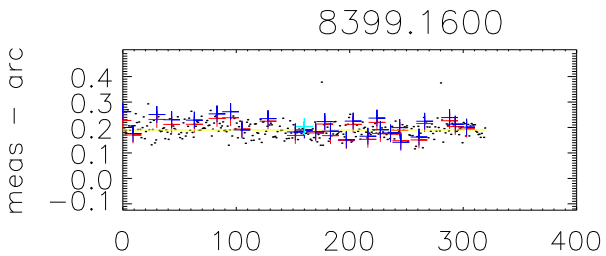

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

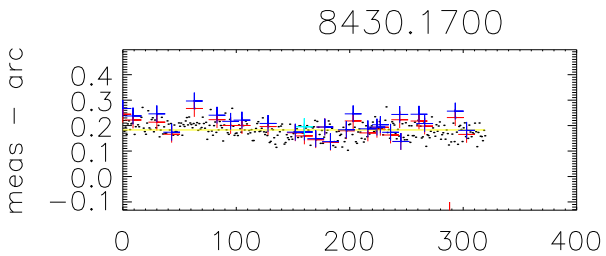

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

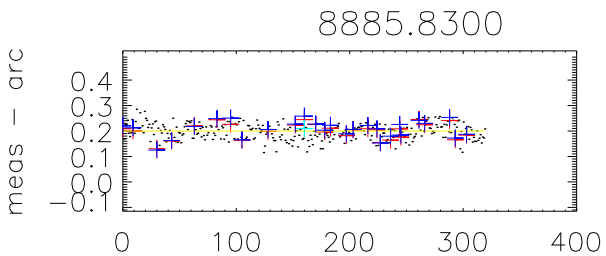

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

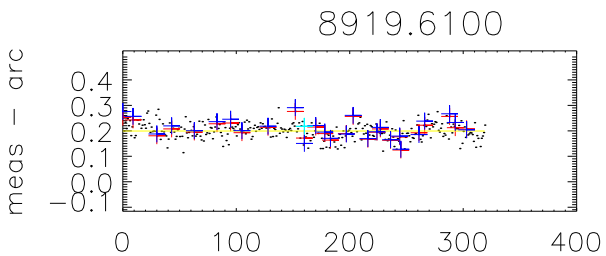

7794.1200
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

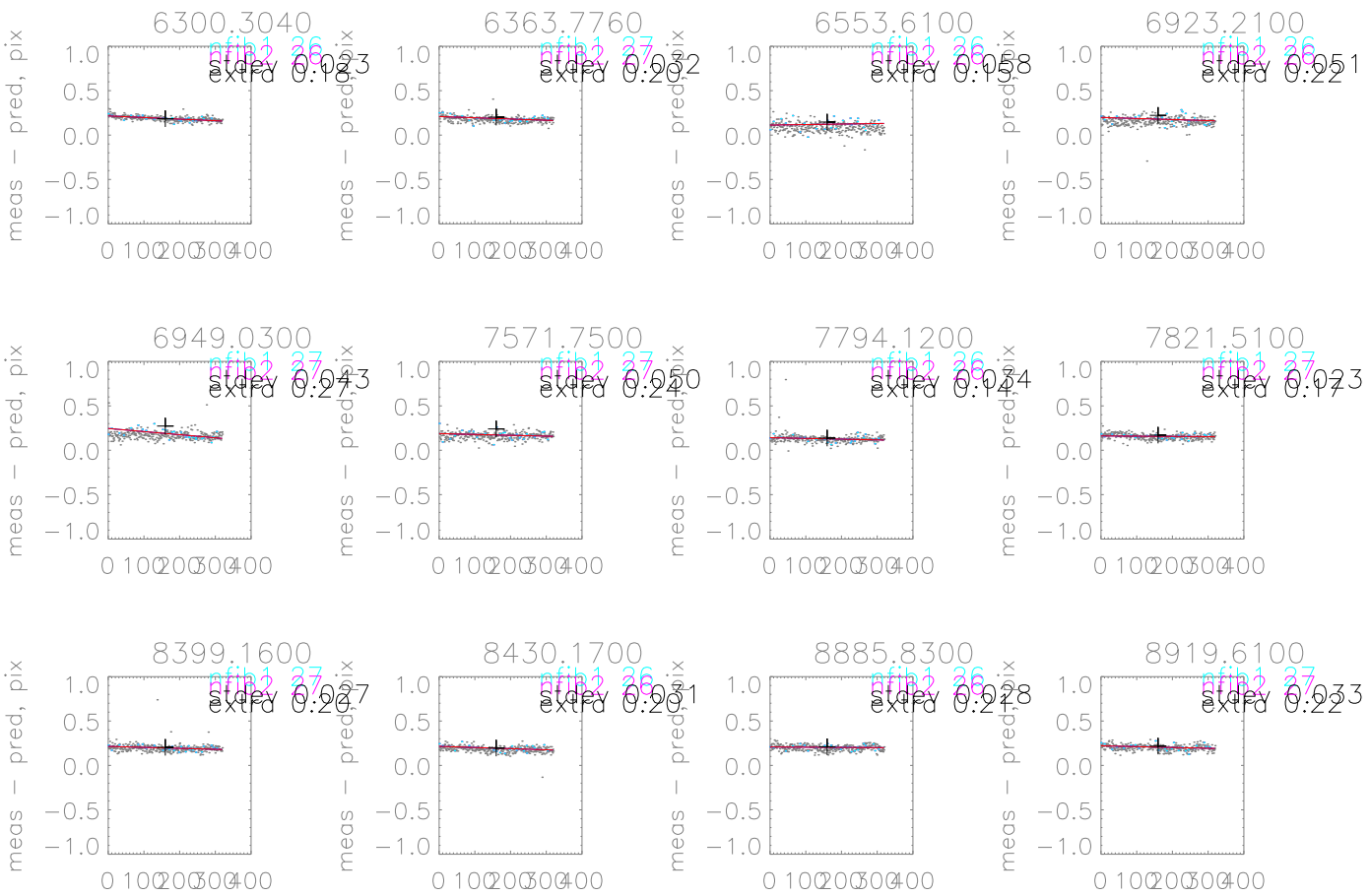

7821.5100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

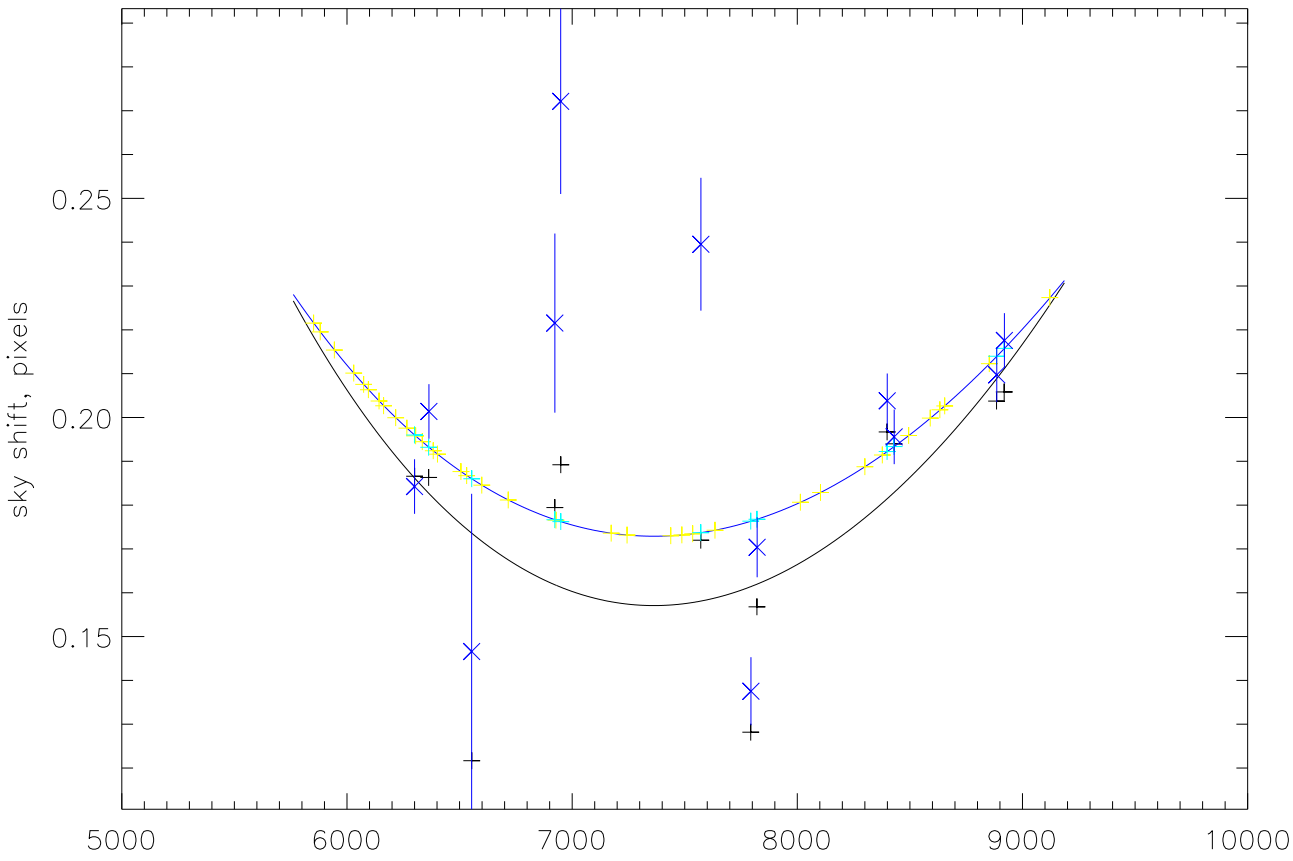

8399.1600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

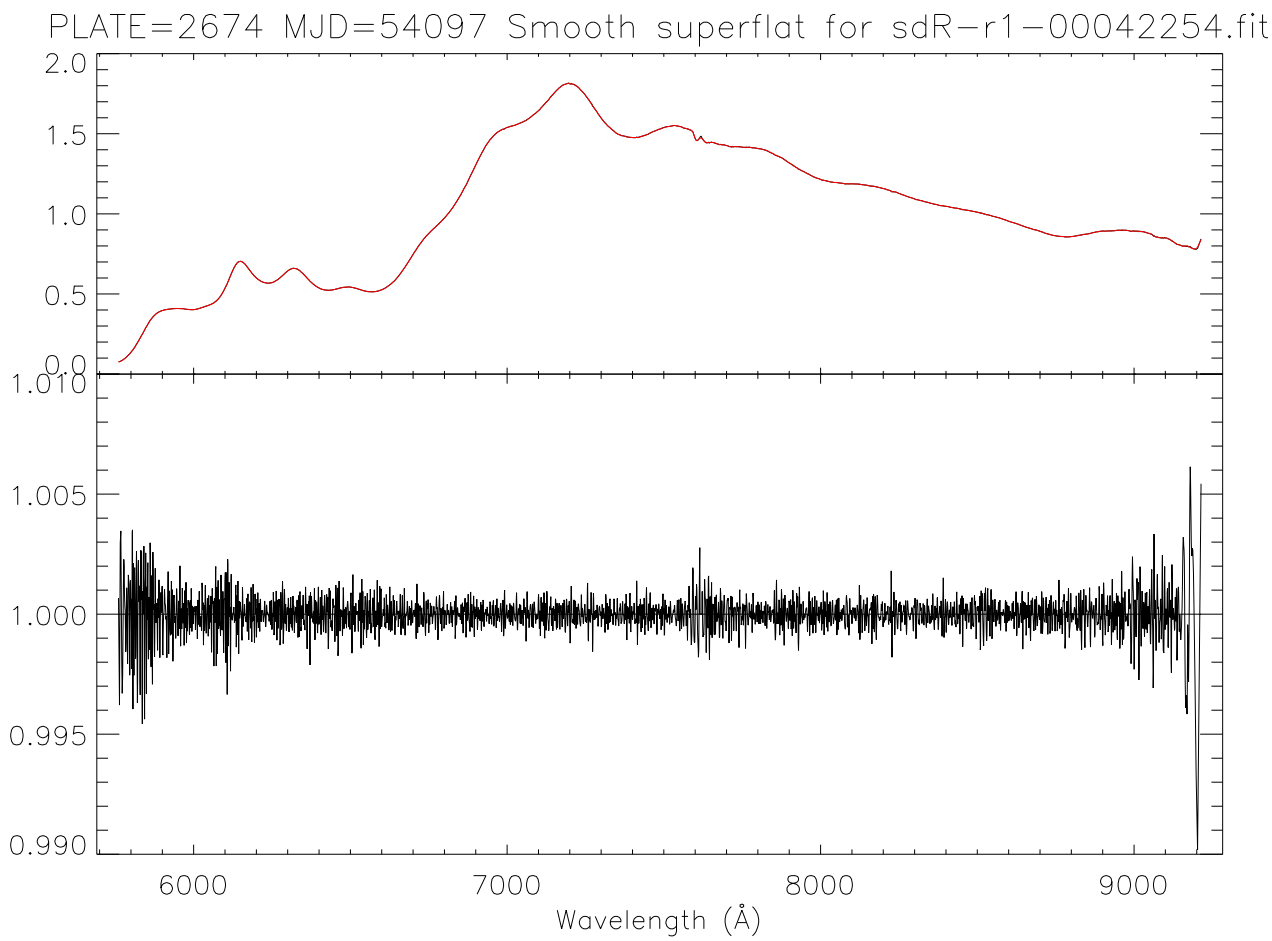

8885.8300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

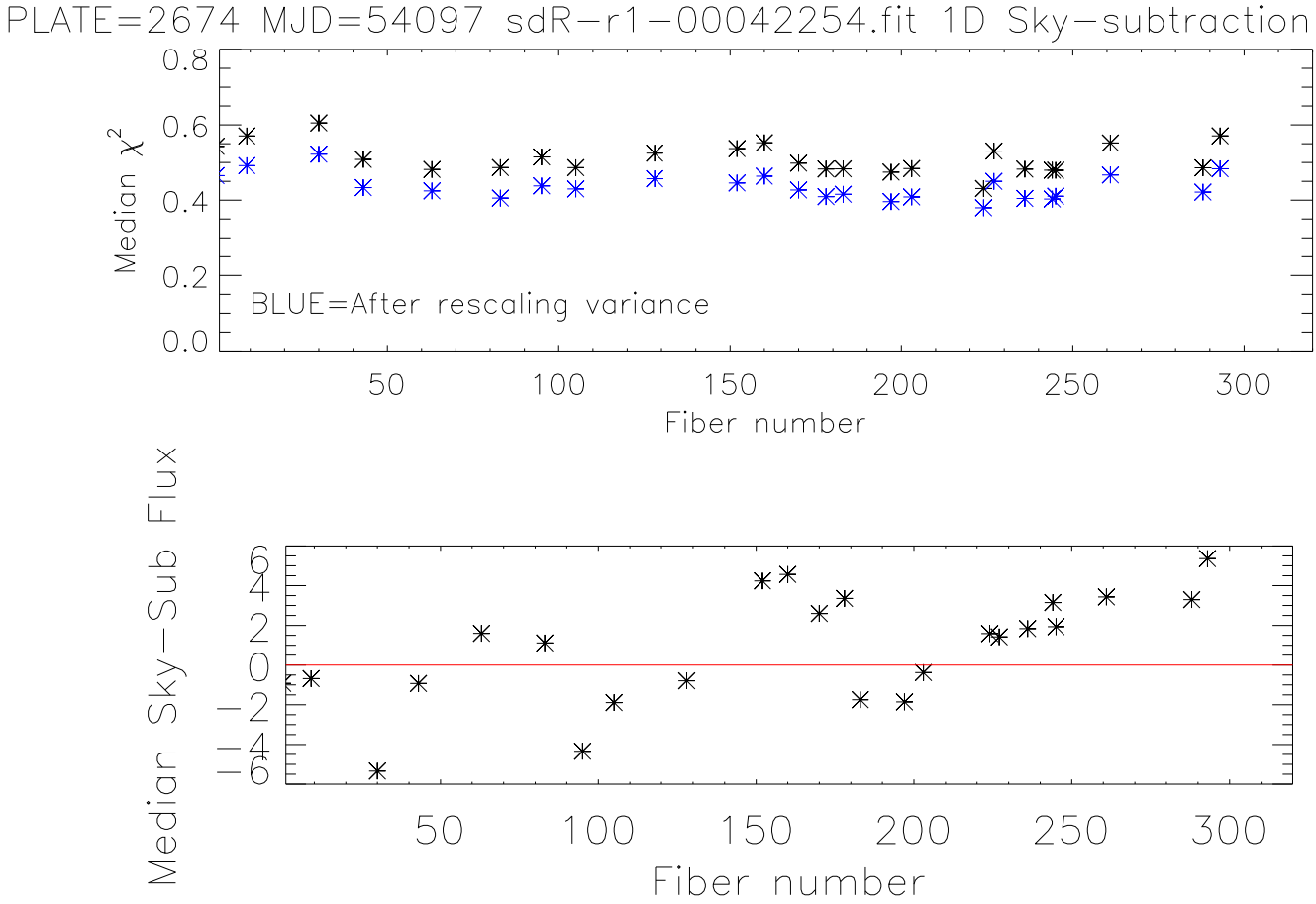

8919.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


6300.3040
mfib1 27
mfib2 26
stdev 0.023
extra 0.18
6363.7760
mfib1 27
mfib2 26
stdev 0.032
extra 0.20
6553.6100
mfib1 26
mfib2 26
stdev 0.058
extra 0.15
6923.2100
mfib1 26
mfib2 26
stdev 0.051
extra 0.22
6949.0300
mfib1 27
mfib2 27
stdev 0.043
extra 0.27
7571.7500
mfib1 27
mfib2 27
stdev 0.050
extra 0.24
7794.1200
mfib1 26
mfib2 26
stdev 0.034
extra 0.14
7821.5100
mfib1 27
mfib2 27
stdev 0.023
extra 0.17
8399.1600
mfib1 27
mfib2 27
stdev 0.027
extra 0.20
8430.1700
mfib1 27
mfib2 26
stdev 0.031
extra 0.20
8885.8300
mfib1 26
mfib2 26
stdev 0.028
extra 0.21
8919.6100
mfib1 27
mfib2 27
stdev 0.033
extra 0.22
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

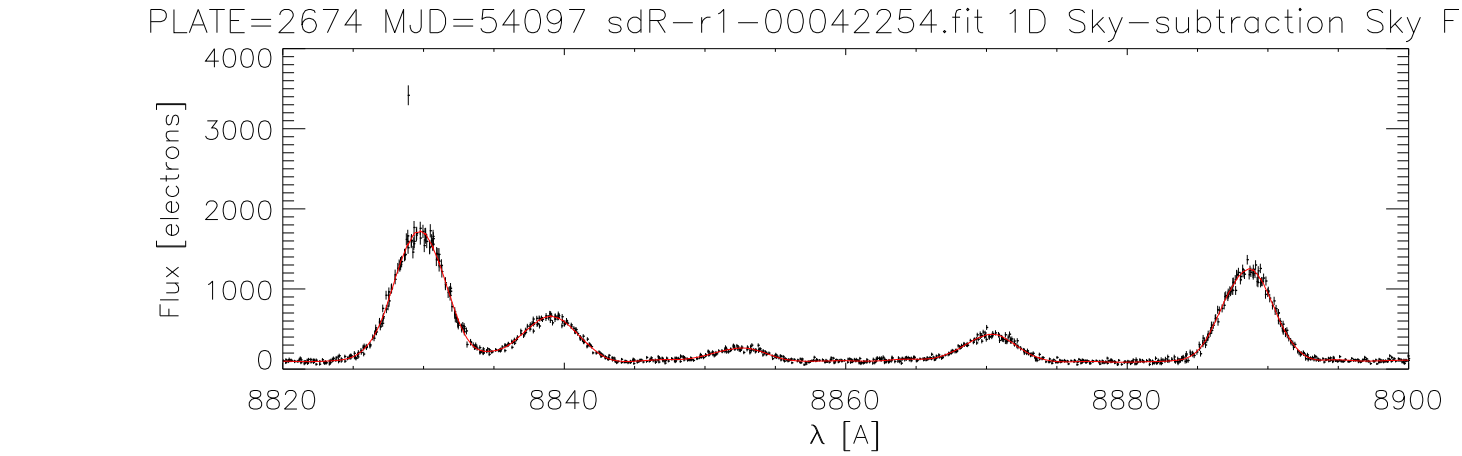

sky shift, pixels
0.25
0.20
0.15
5000
6000
7000
8000
9000
10000

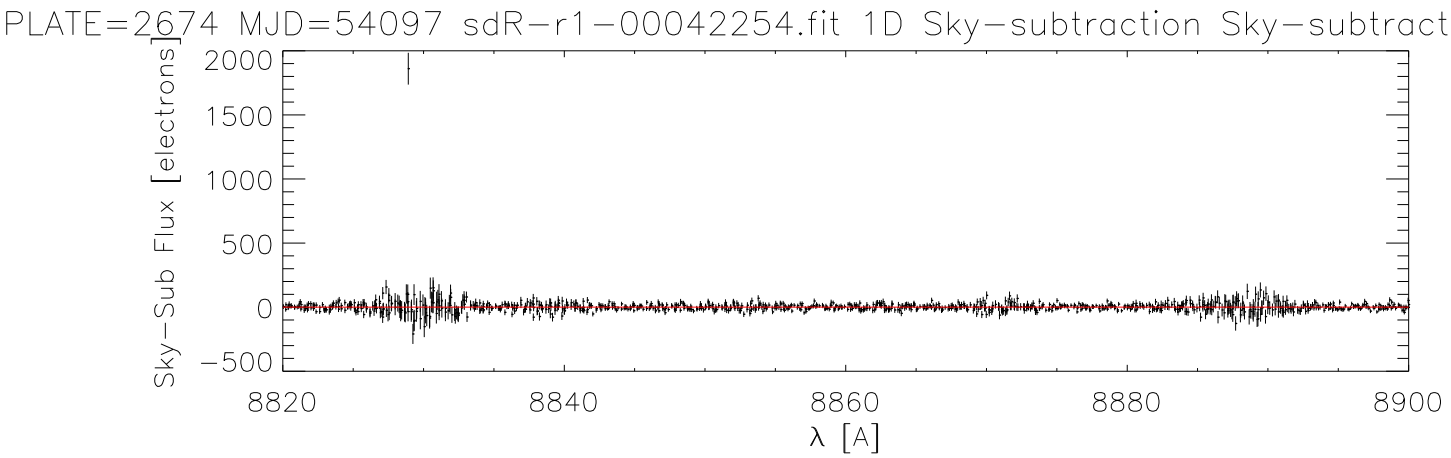
es= 0.0000

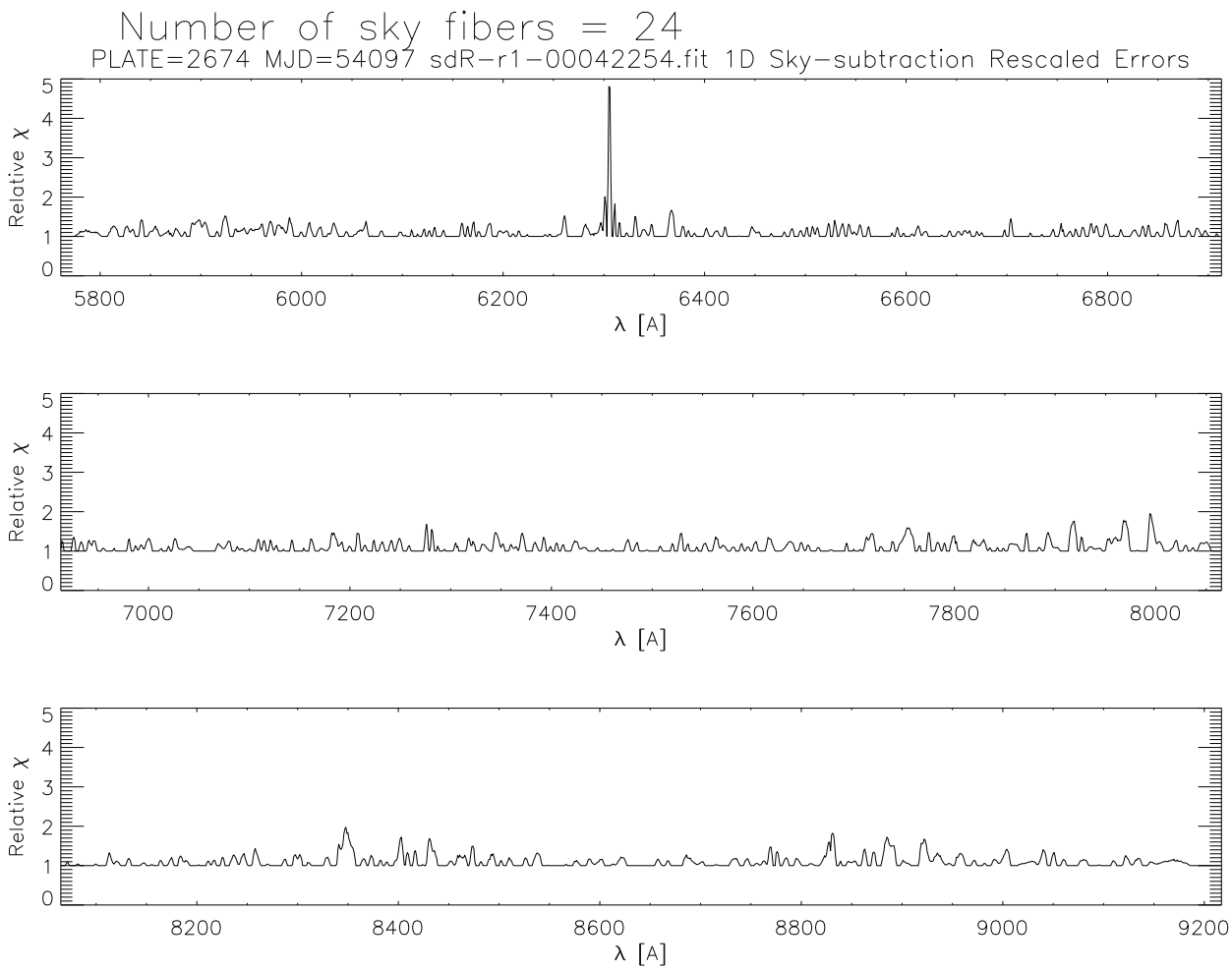

PLATE=2674 MJD=54097 Smooth superflat for sdR-r1-00042254.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

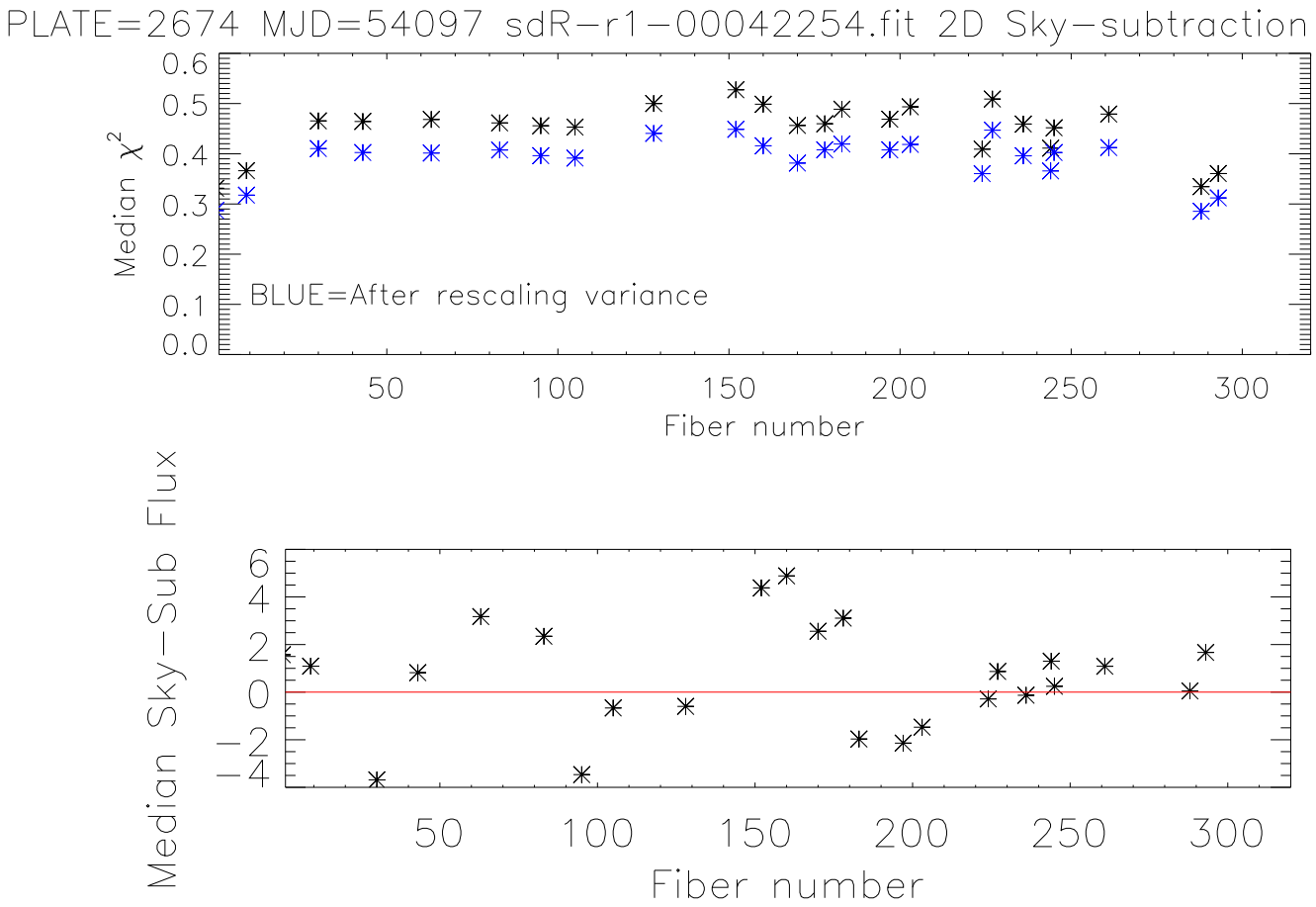

PLATE=2674 MJD=54097 sdR-r1-00042254.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

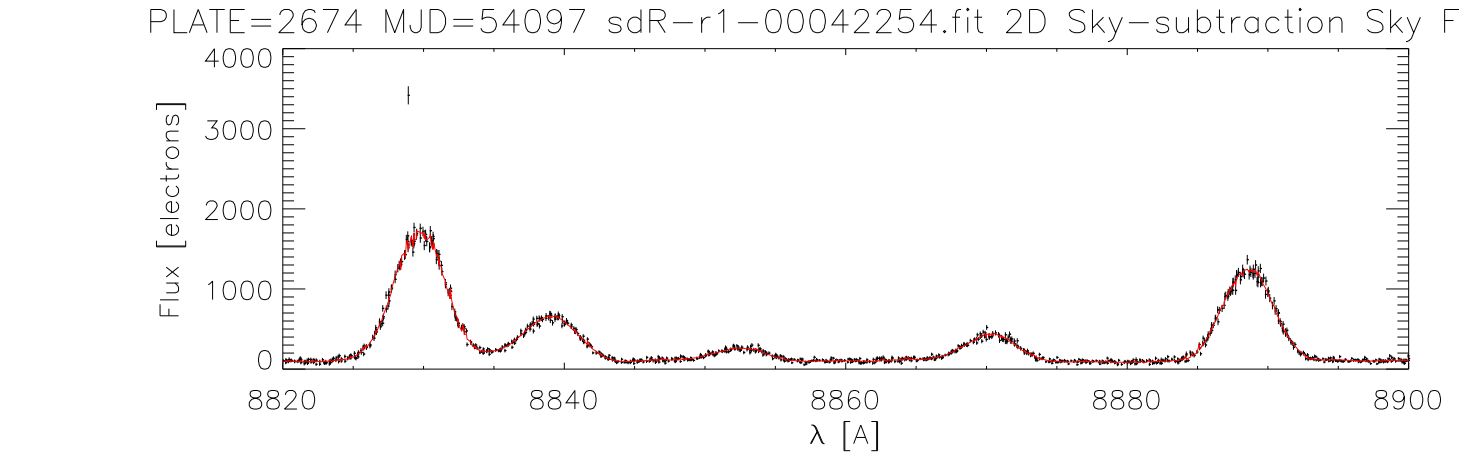
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

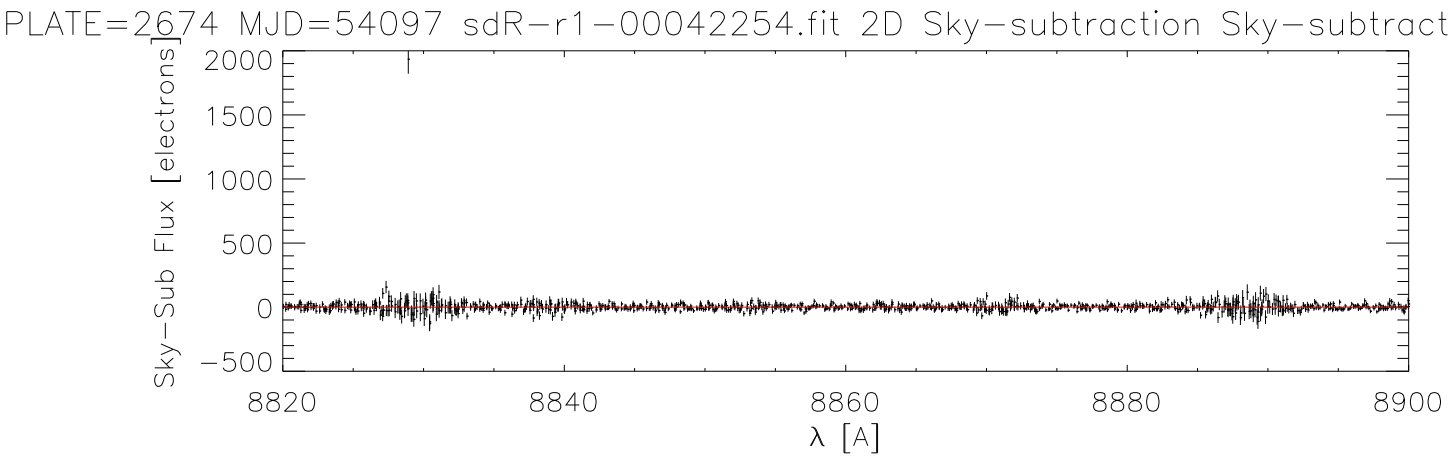

PLATE=2674 MJD=54097 sdR-r1-00042254.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

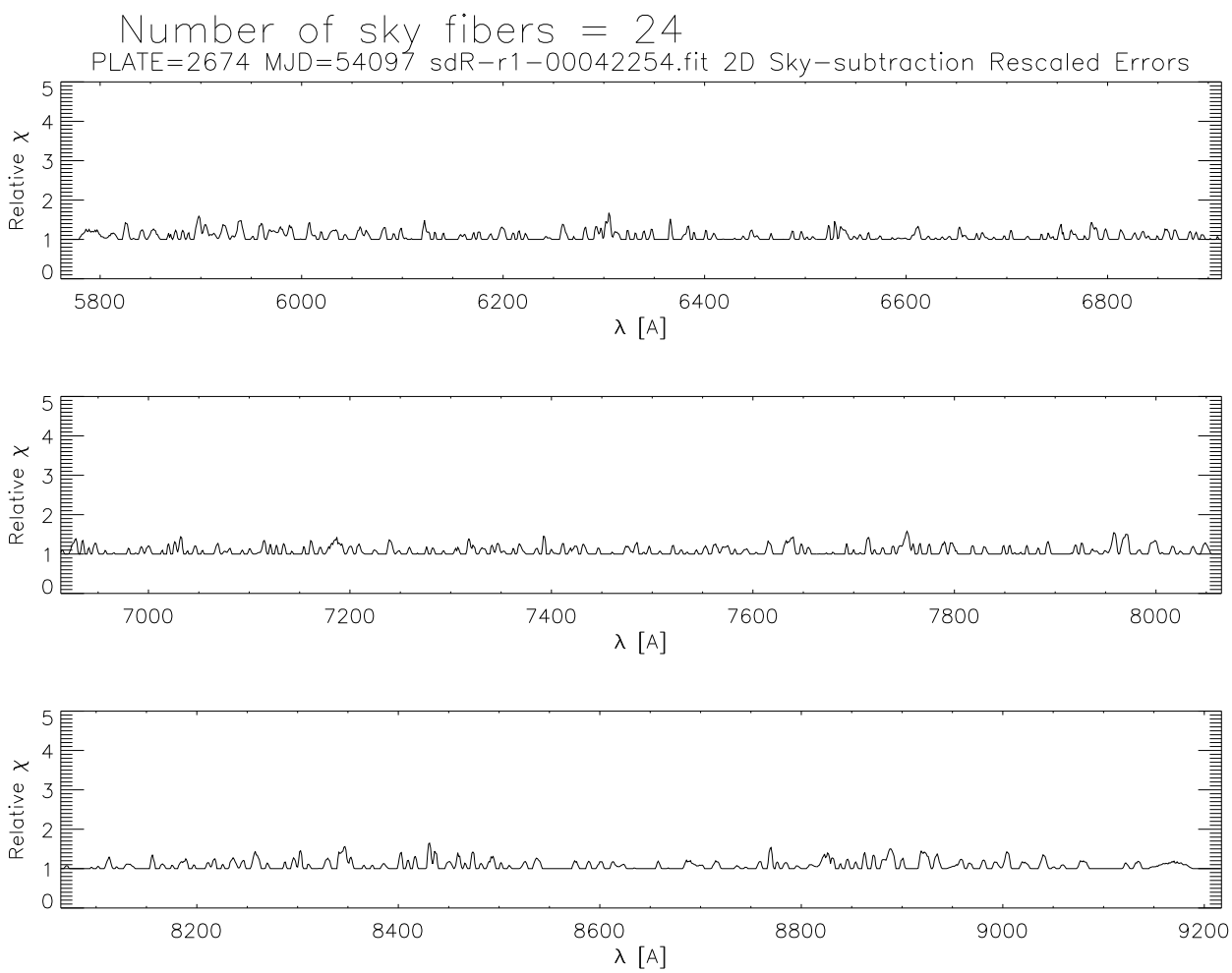

PLATE=2674 MJD=54097 sdR-r1-00042254.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

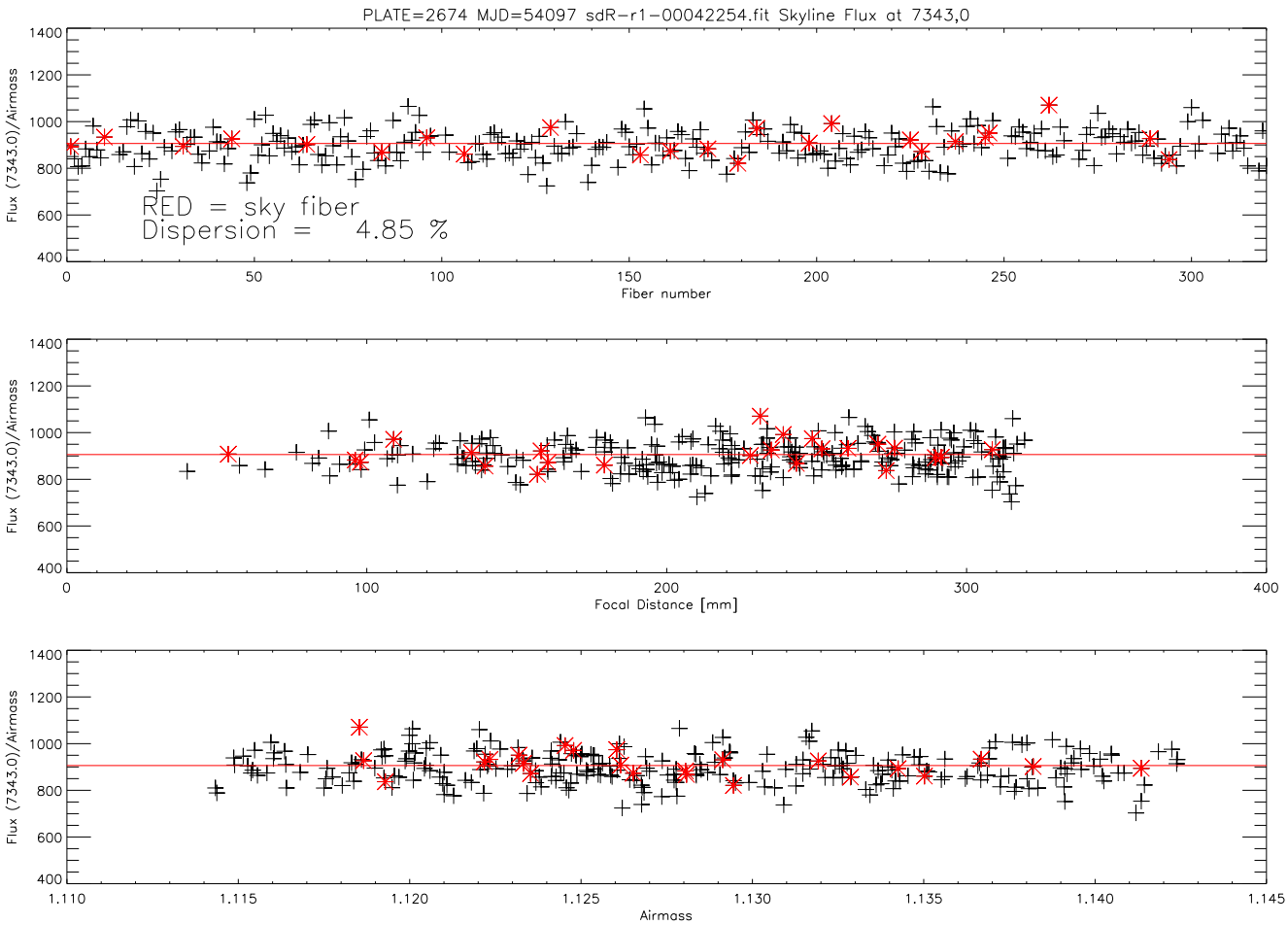

Number of sky fibers = 24
PLATE=2674 MJD=54097 sdR-r1-00042254.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

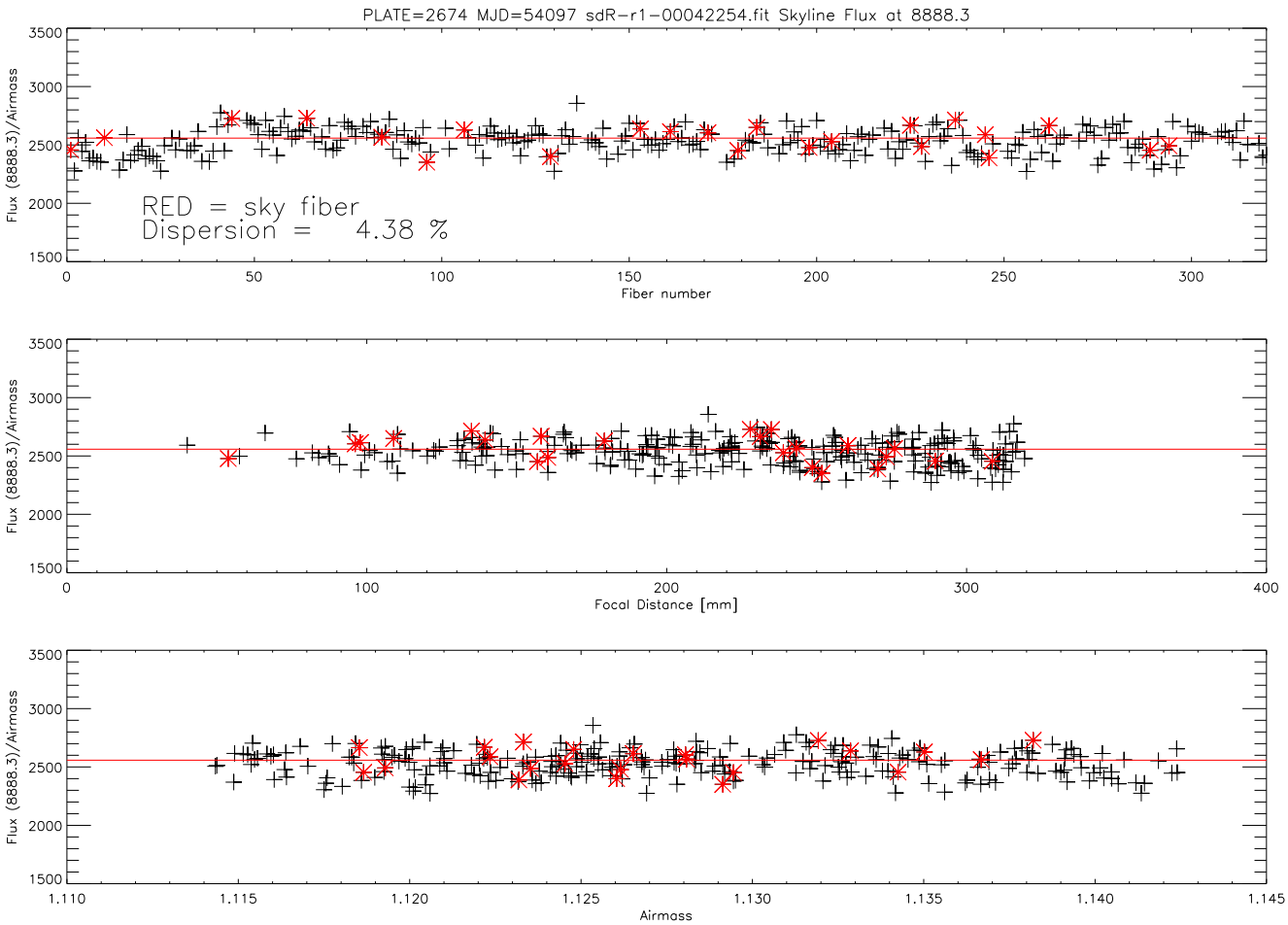

PLATE=2674 MJD=54097 sdR-r1-00042254.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

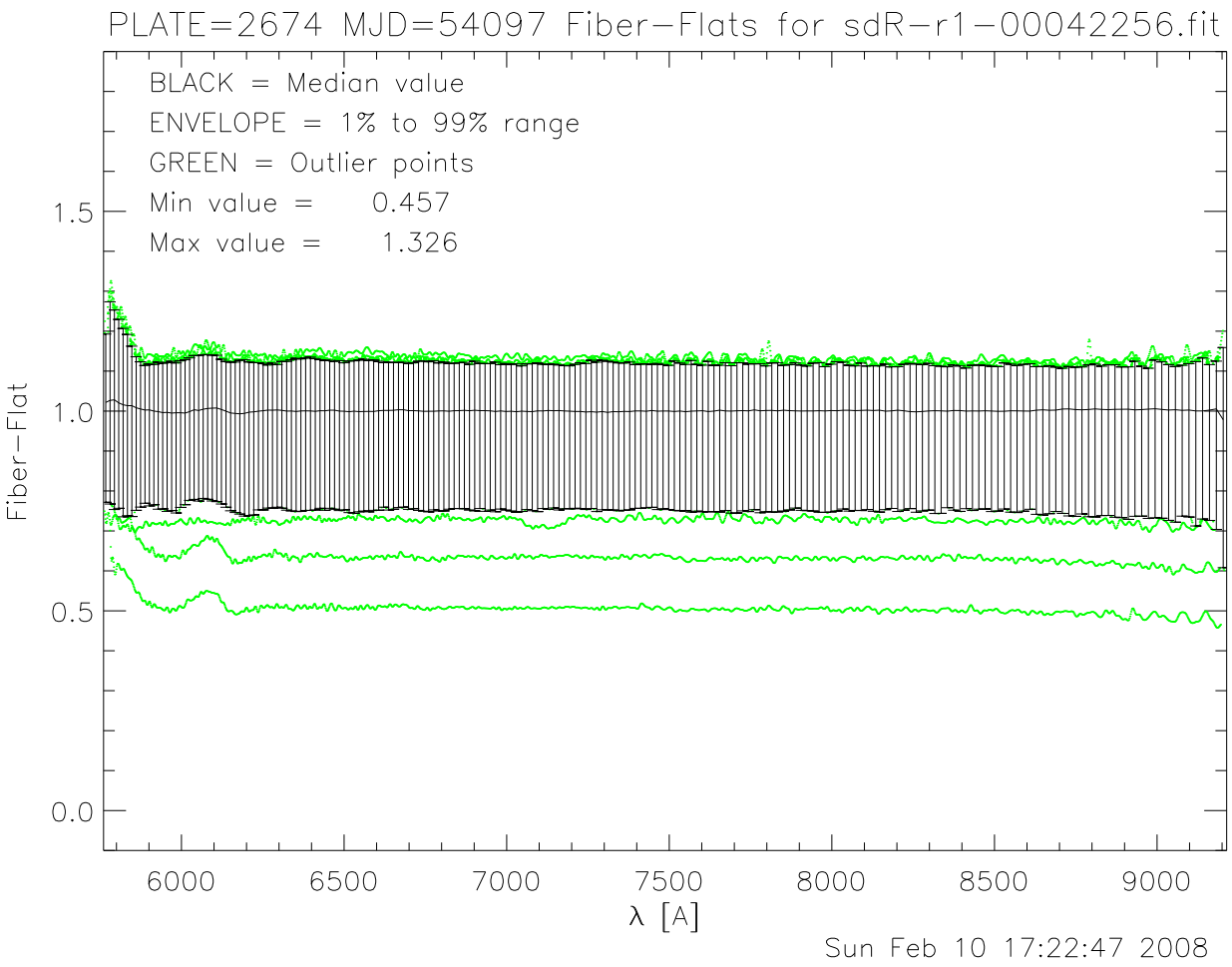

PLATE=2674 MJD=54097 sdR-r1-00042254.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

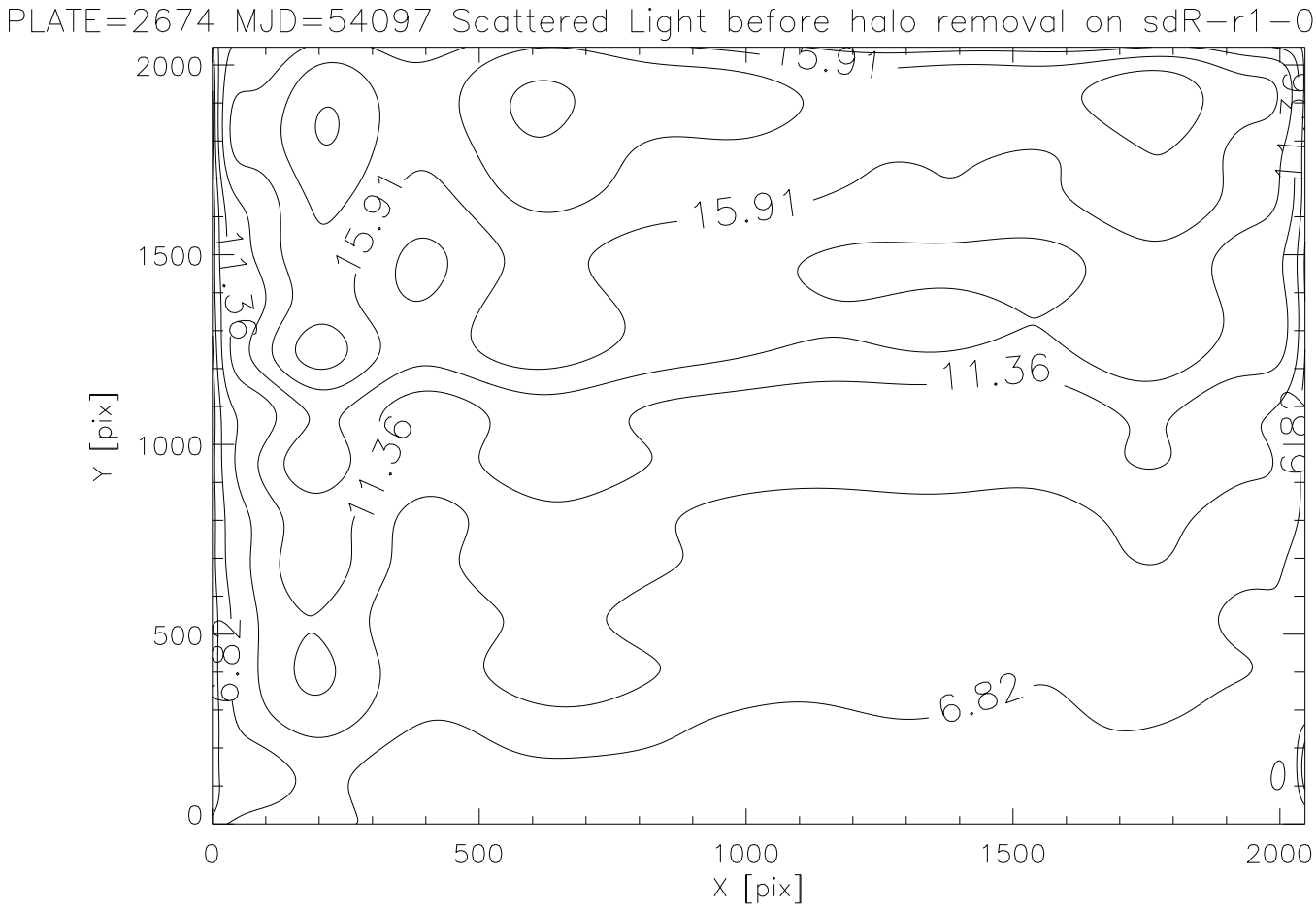

PLATE=2674 MJD=54097 sdR-r1-00042254.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

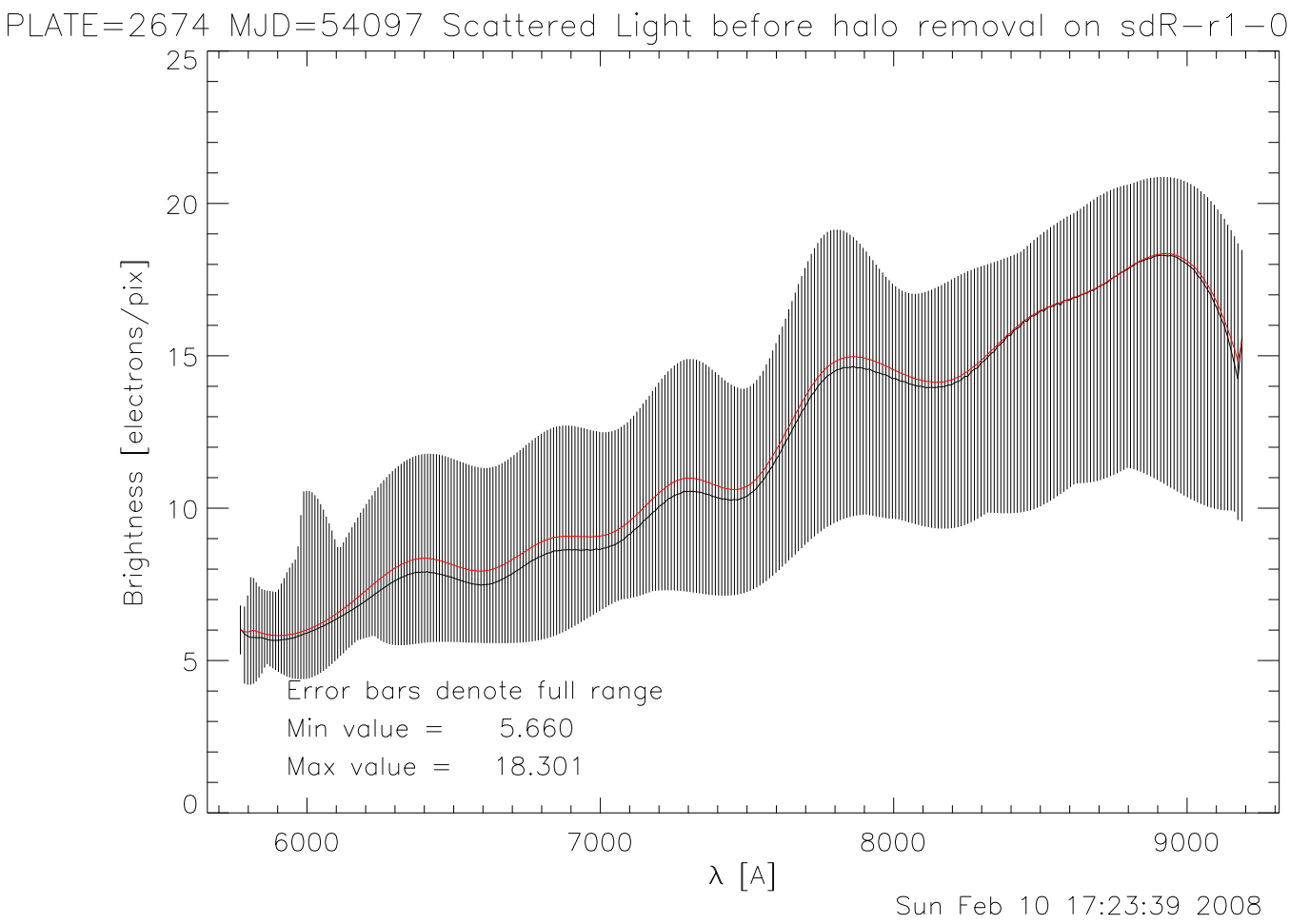

Number of sky fibers = 24
PLATE=2674 MJD=54097 sdR-r1-00042254.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

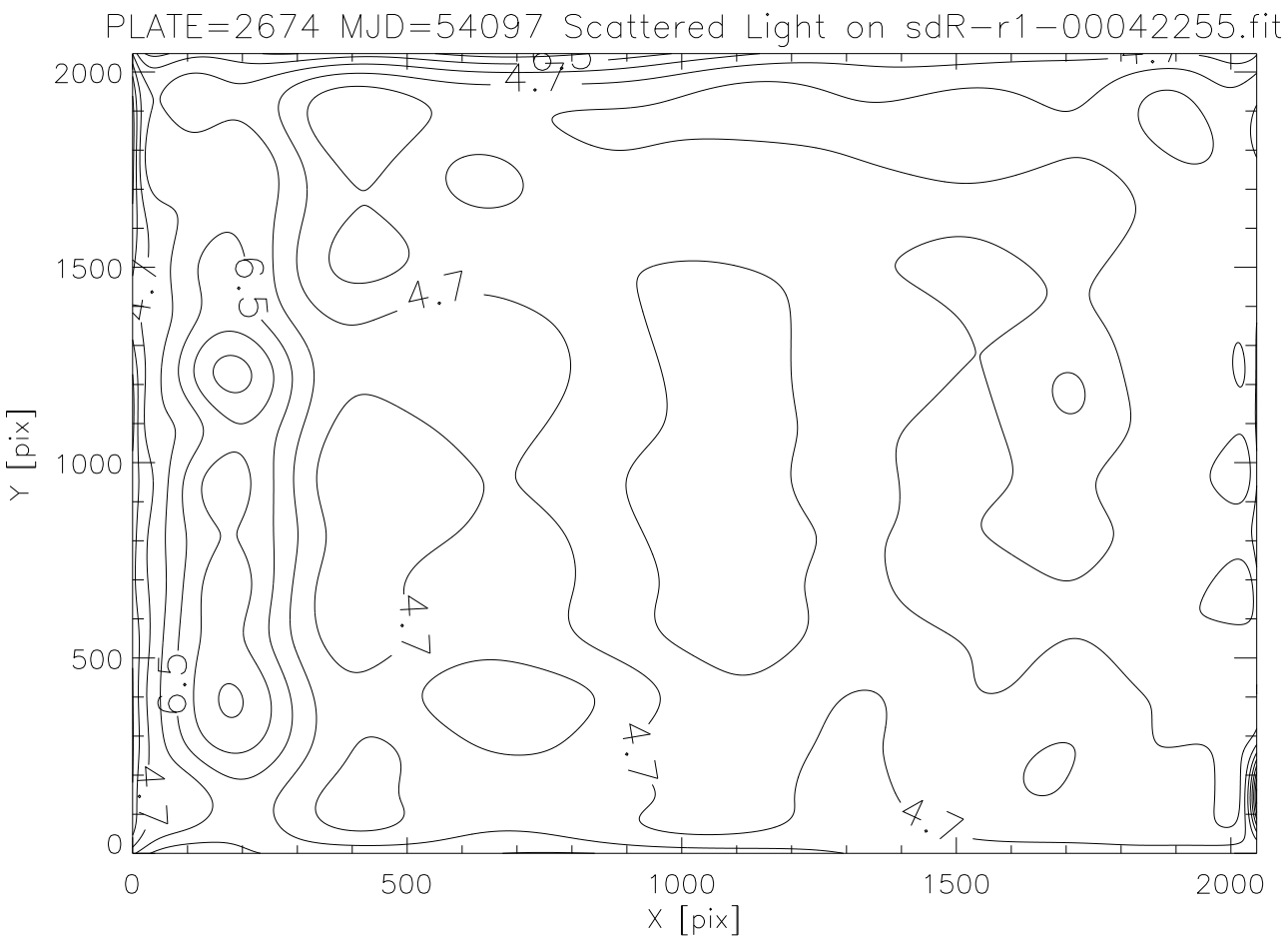

PLATE=2674 MJD=54097 sdR-r1-00042254.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 4.85 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

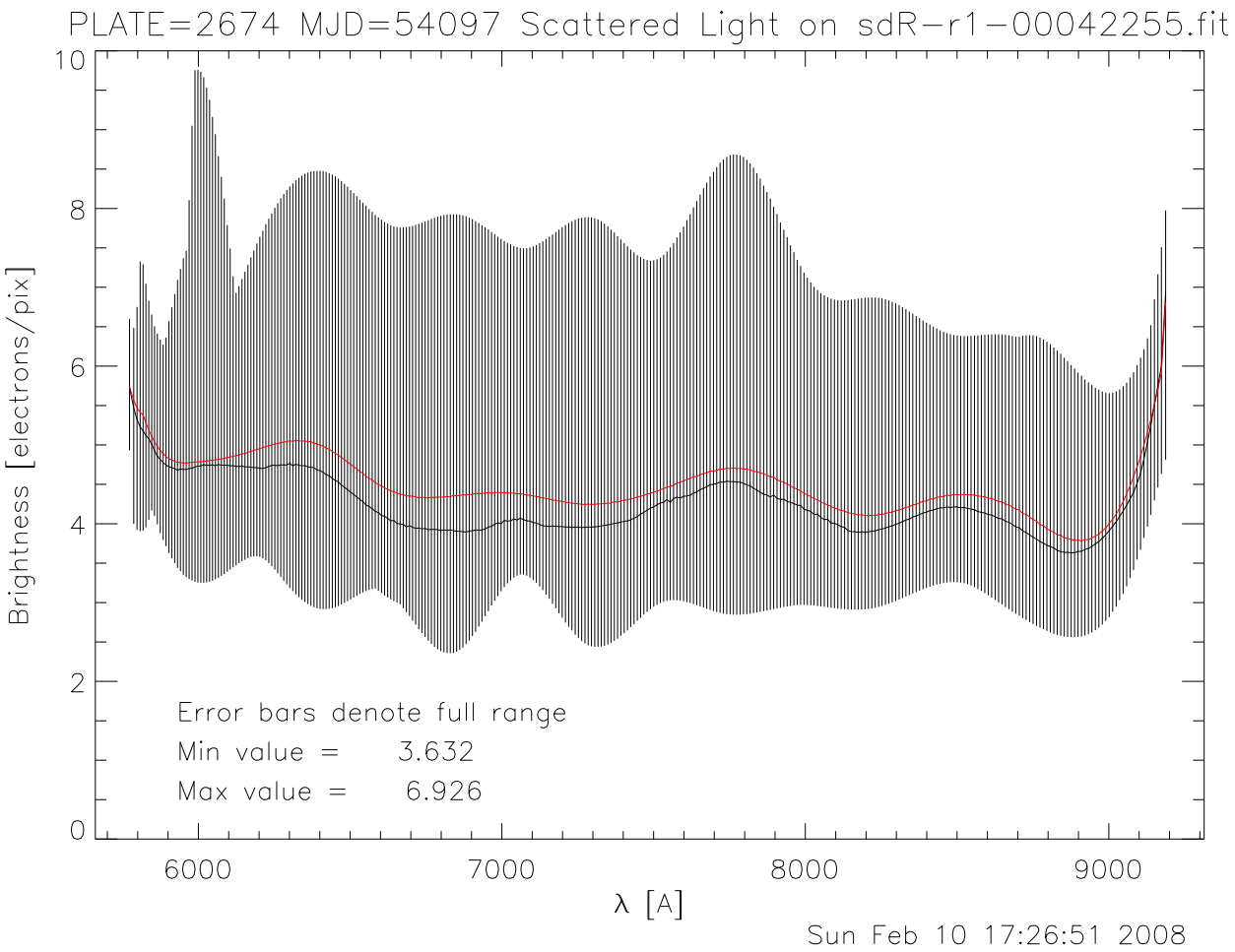

PLATE=2674 MJD=54097 sdR-r1-00042254.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 4.38 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

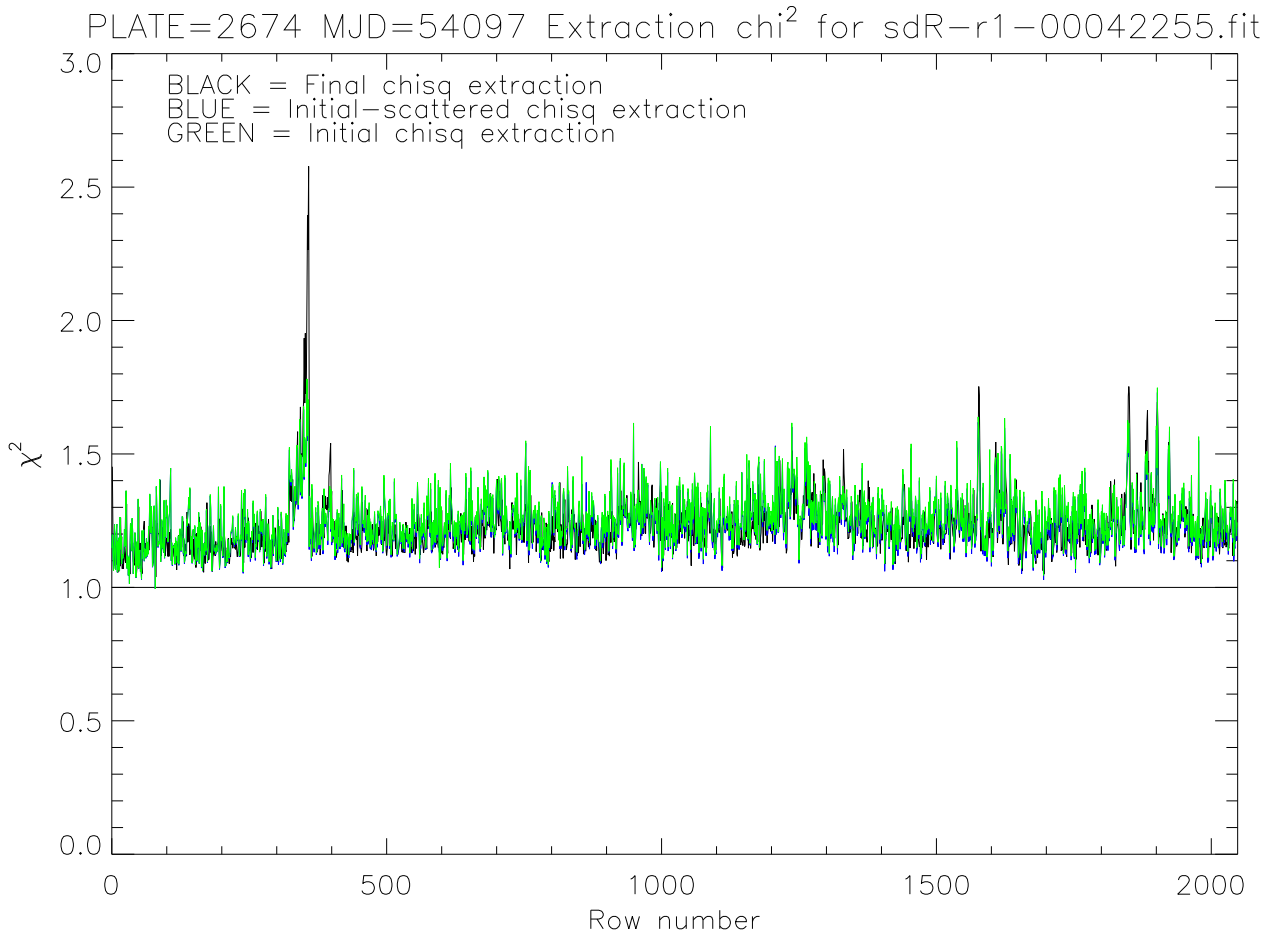

PLATE=2674 MJD=54097 Fiber−Flats for sdR−r1−00042256.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.457
Max value = 1.326
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sun Feb 10 17:22:47 2008

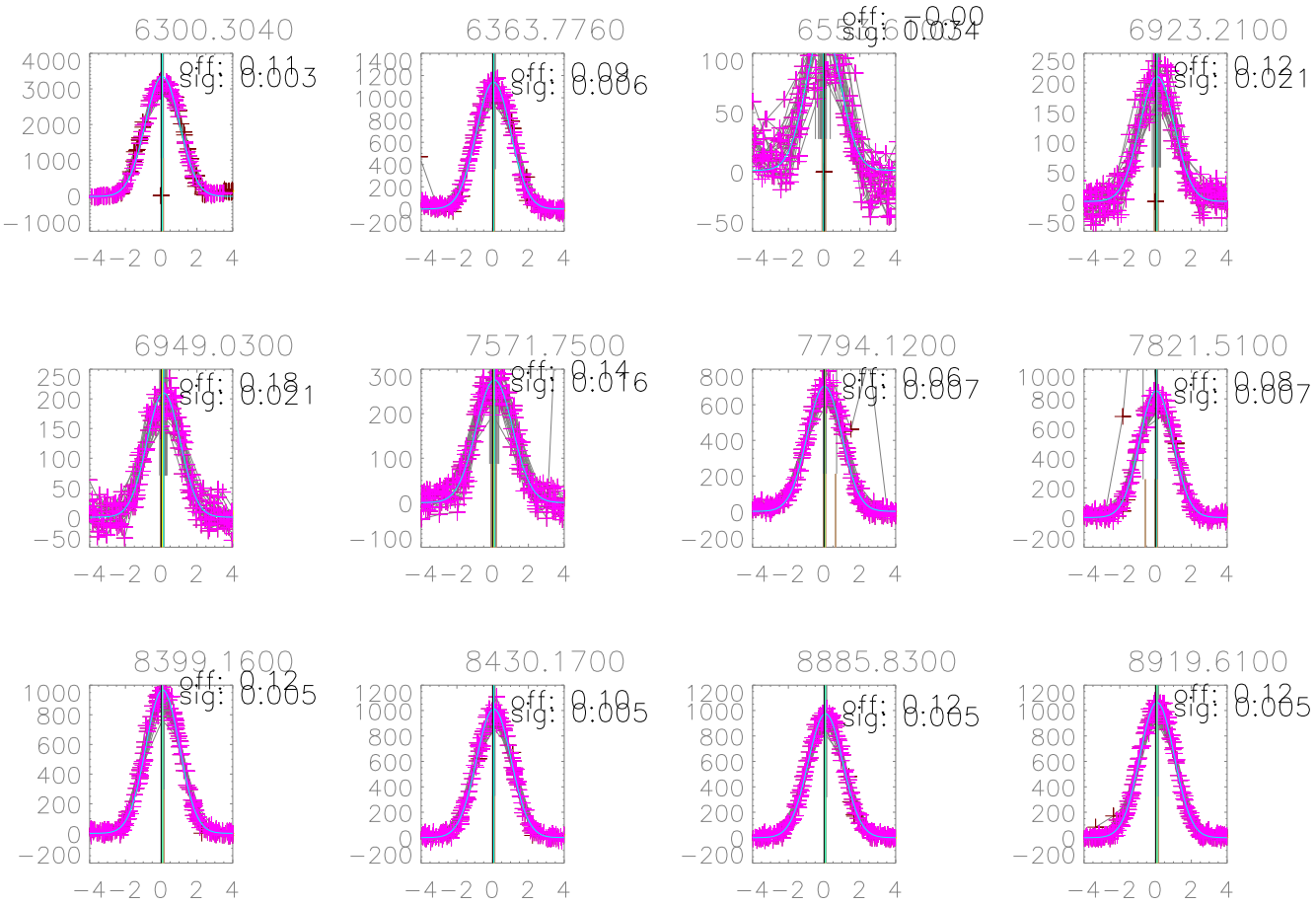

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR-r1-00042255.fi
15.91
15.91
15.91
11.36
11.36
11.36
6.82
0
Y [pix]
X [pix]
0
500
1000
1500
2000

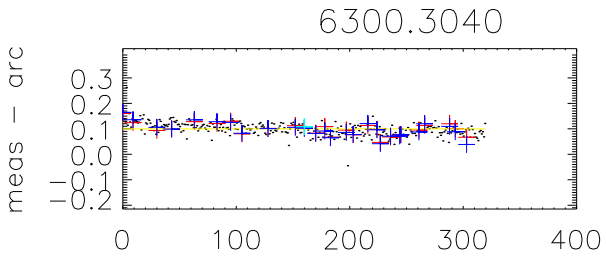

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR-r1-00042255.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.660
Max value = 18.301
Sun Feb 10 17:23:39 2008

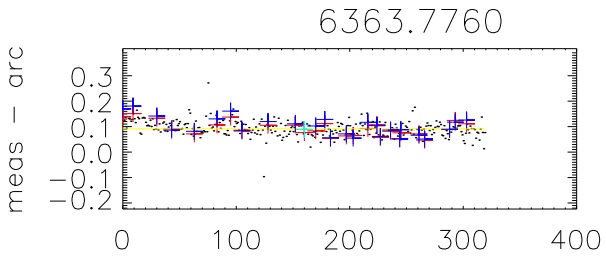

PLATE=2674 MJD=54097 Scattered Light on sdR−r1−00042255.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
4.7
6.5
5.9

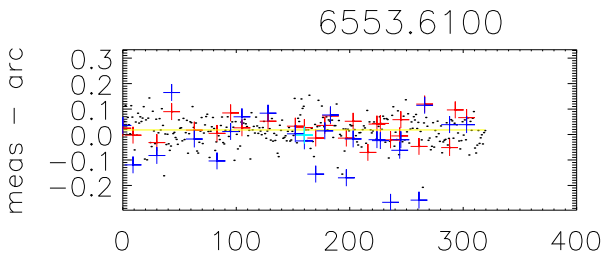

PLATE=2674 MJD=54097 Scattered Light on sdR-r1-00042255.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.632
Max value = 6.926
Sun Feb 10 17:26:51 2008

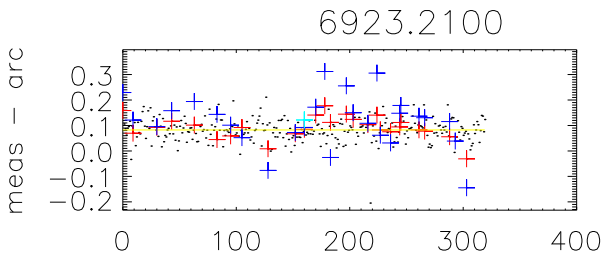

PLATE=2674 MJD=54097 Extraction chi^2 for sdR−r1−00042255.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

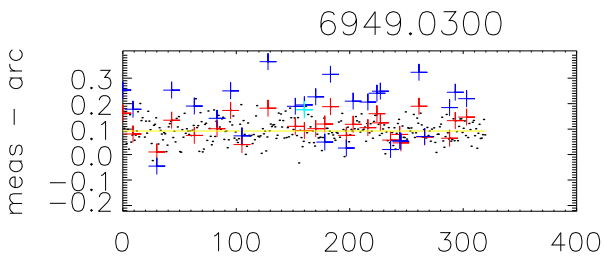

6300.3040
off: 0.11
sig: 0.003
6363.7760
off: 0.08
sig: 0.006
off: −0.00
sig: 0.034
6923.2100
off: 0.12
sig: 0.021
6949.0300
off: 0.18
sig: 0.021
7571.7500
off: 0.14
sig: 0.016
7794.1200
off: 0.06
sig: 0.007
7821.5100
off: 0.08
sig: 0.007
8399.1600
off: 0.12
sig: 0.005
8430.1700
off: 0.10
sig: 0.005
8885.8300
off: 0.12
sig: 0.005
8919.6100
off: 0.12
sig: 0.005

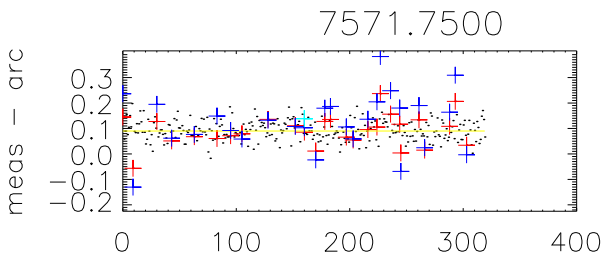

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

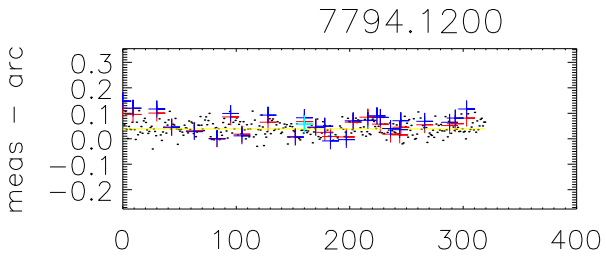

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

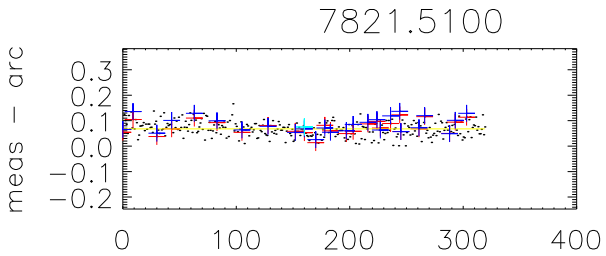

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

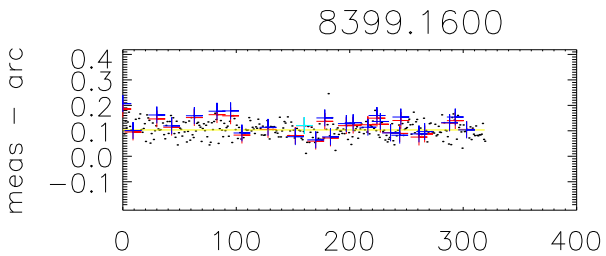

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

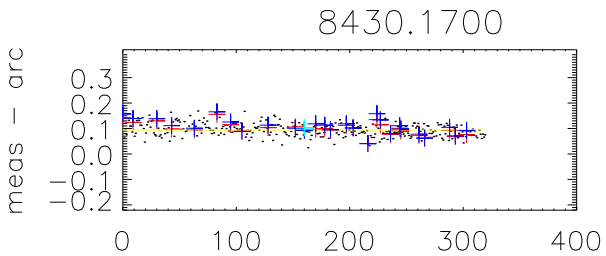

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

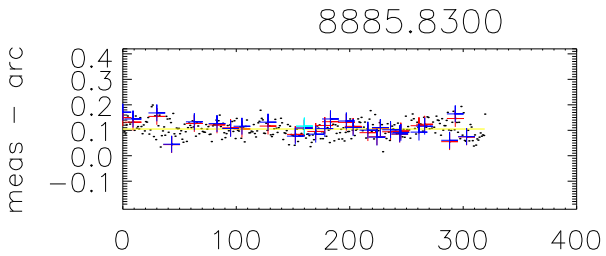

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

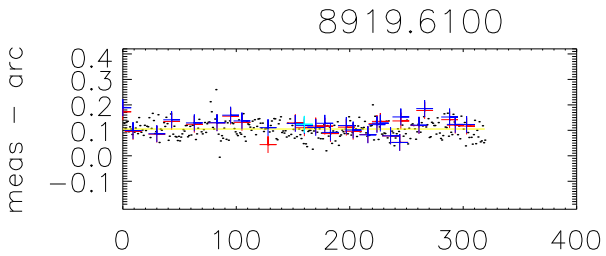

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

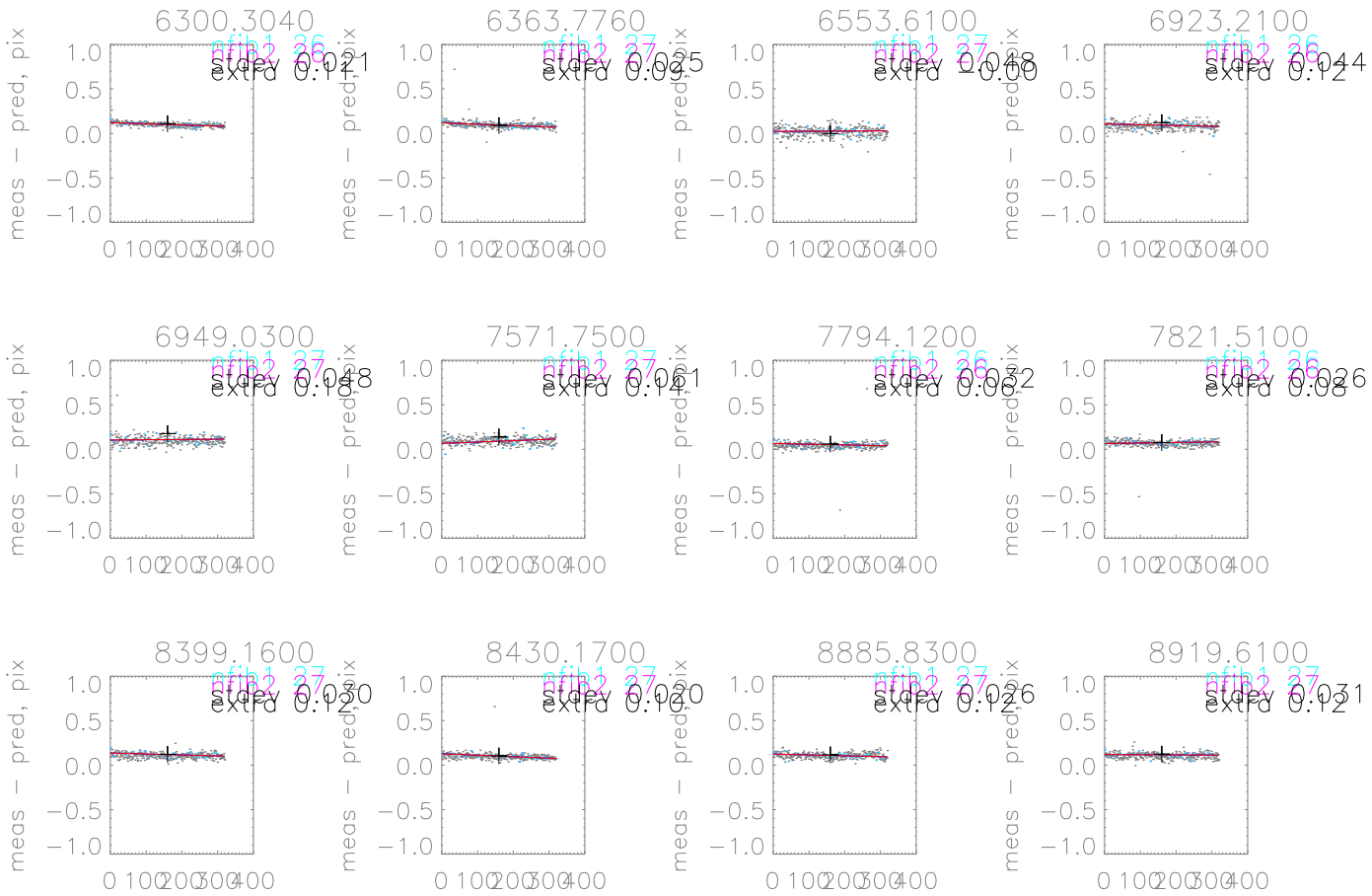

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

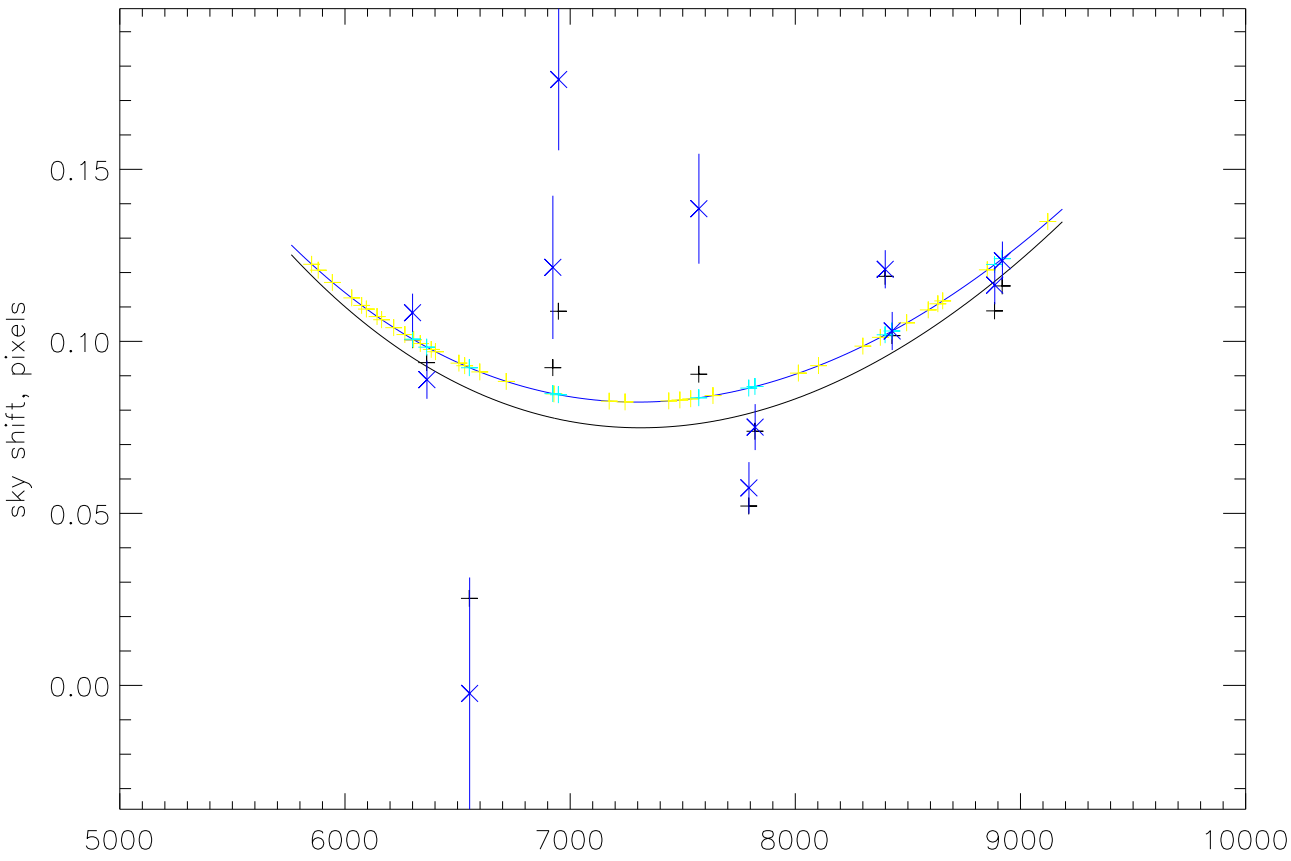

8399.1600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

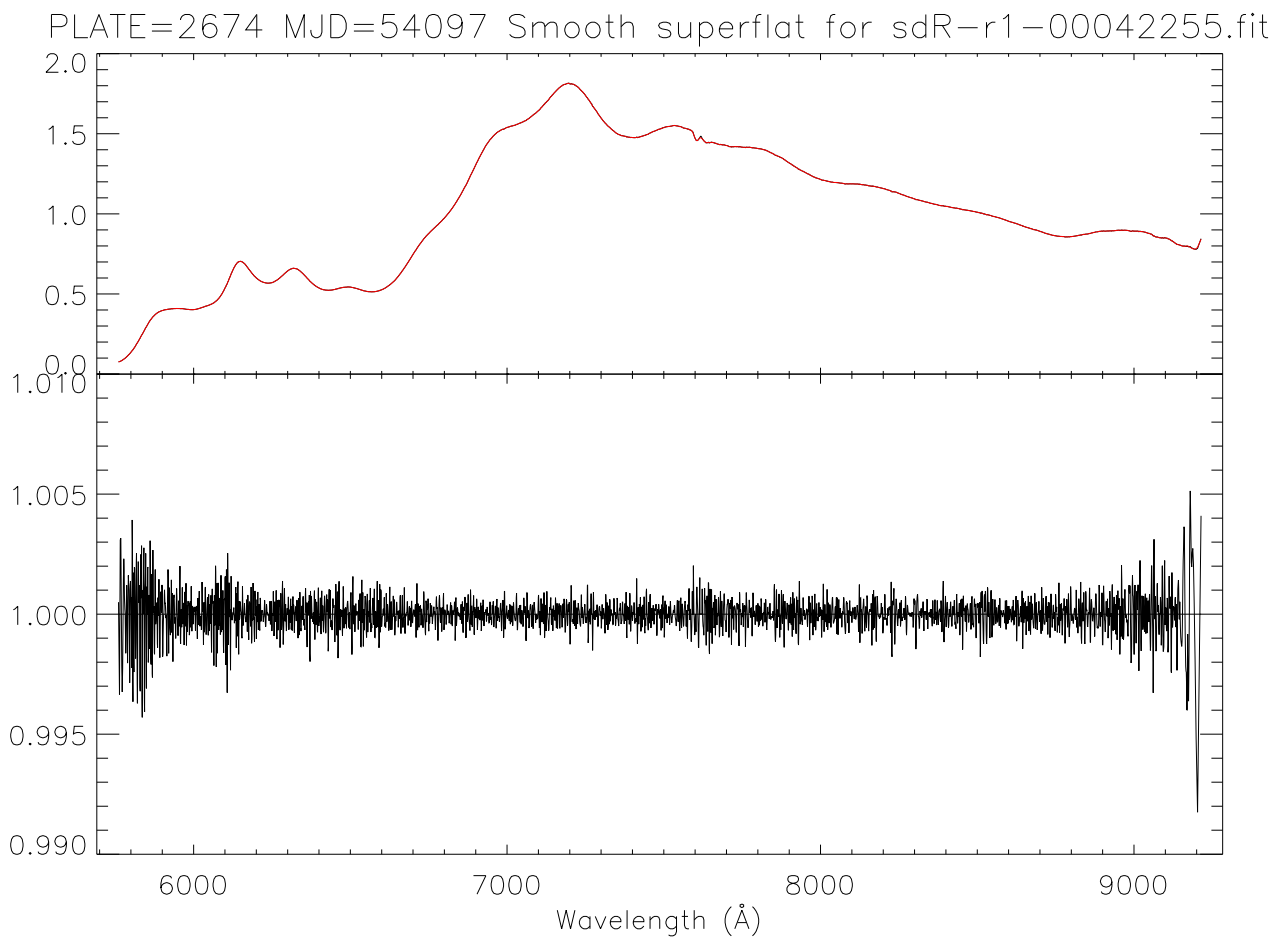

8885.8300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

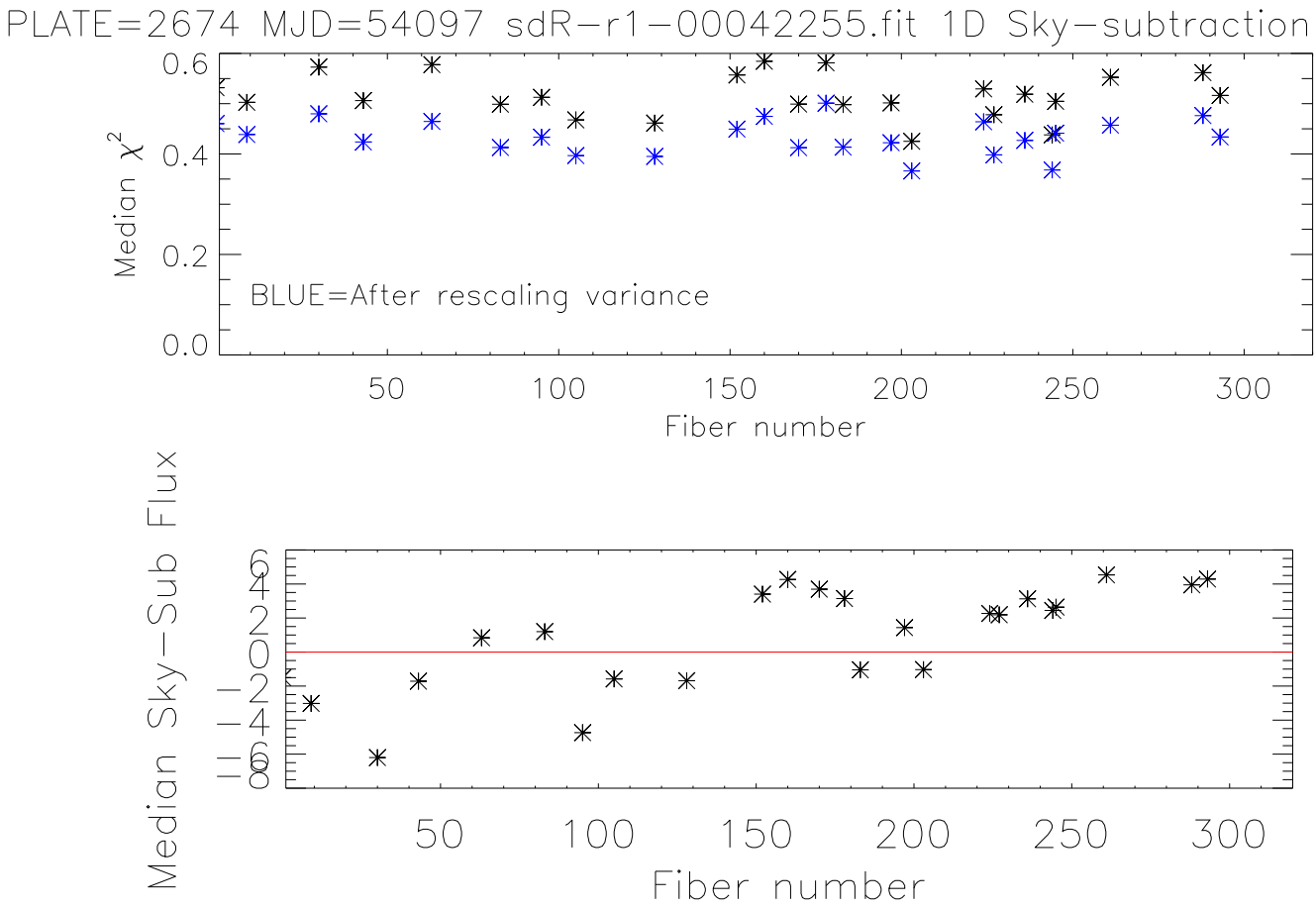

8919.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


6300.3040
mfib1 27
mfib2 26
stdev 0.021
extra 0.12
6363.7760
mfib1 27
mfib2 26
stdev 0.025
extra 0.04
6553.6100
mfib1 27
mfib2 26
stdev 0.048
extra −0.00
6923.2100
mfib1 27
mfib2 26
stdev 0.044
extra 0.12
6949.0300
mfib1 27
mfib2 27
stdev 0.048
extra 0.18
7571.7500
mfib1 27
mfib2 27
stdev 0.061
extra 0.14
7794.1200
mfib1 27
mfib2 26
stdev 0.032
extra 0.06
7821.5100
mfib1 27
mfib2 26
stdev 0.026
extra 0.08
8399.1600
mfib1 27
mfib2 27
stdev 0.030
extra 0.12
8430.1700
mfib1 27
mfib2 27
stdev 0.030
extra 0.16
8885.8300
mfib1 27
mfib2 27
stdev 0.026
extra 0.12
8919.6100
mfib1 27
mfib2 27
stdev 0.031
extra 0.12
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

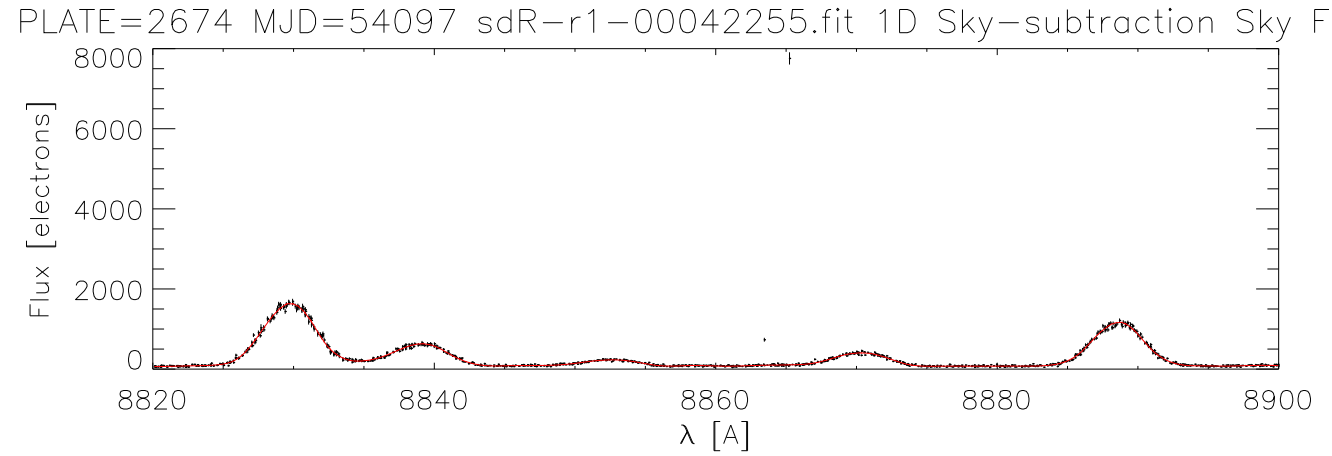

sky shift, pixels
0.15
0.10
0.05
0.00
5000
6000
7000
8000
9000
10000

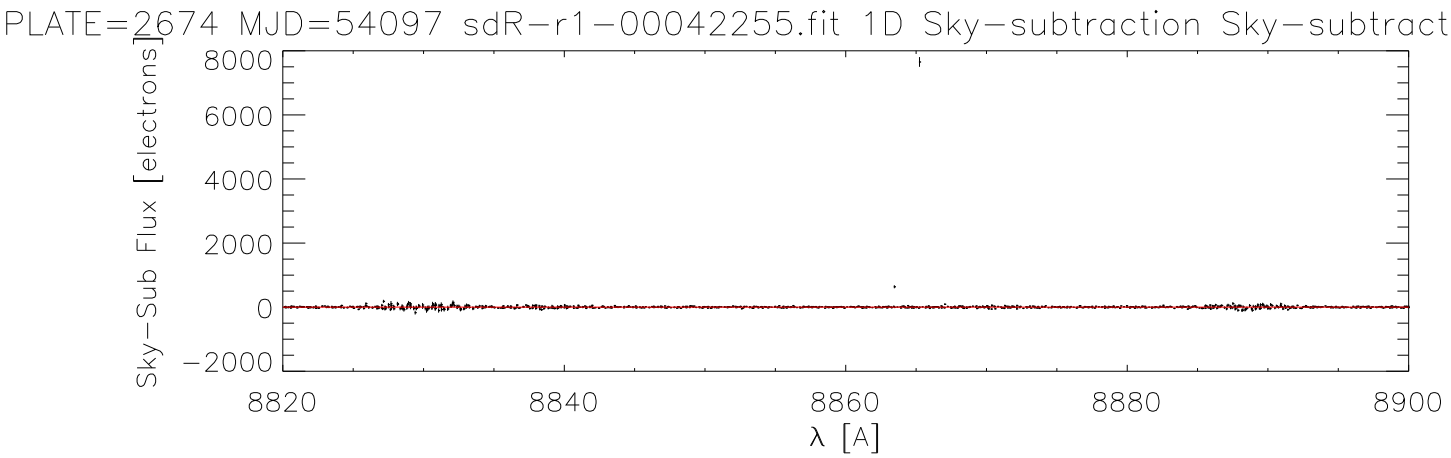
es= 0.0000

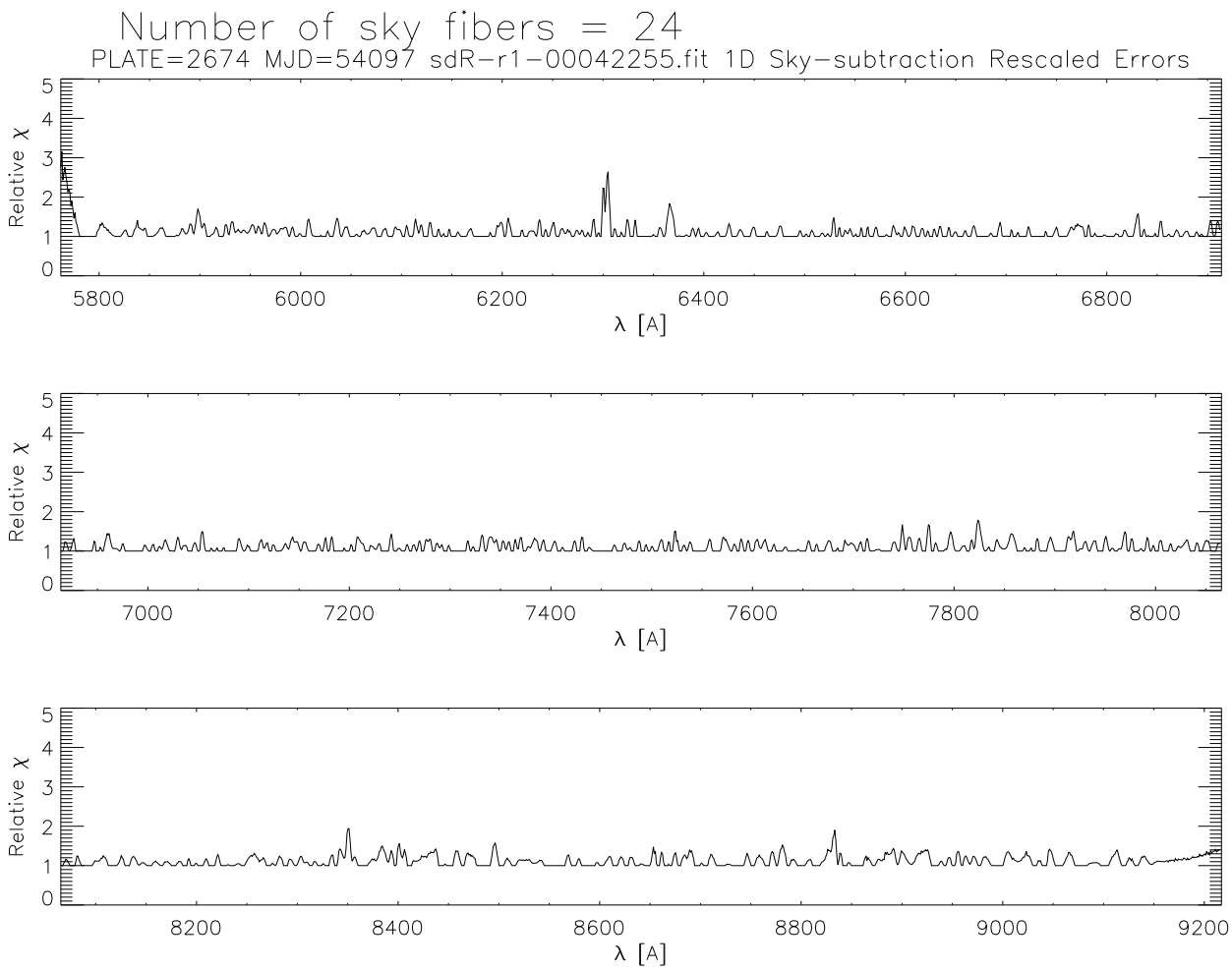

PLATE=2674 MJD=54097 Smooth superflat for sdR-r1-00042255.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

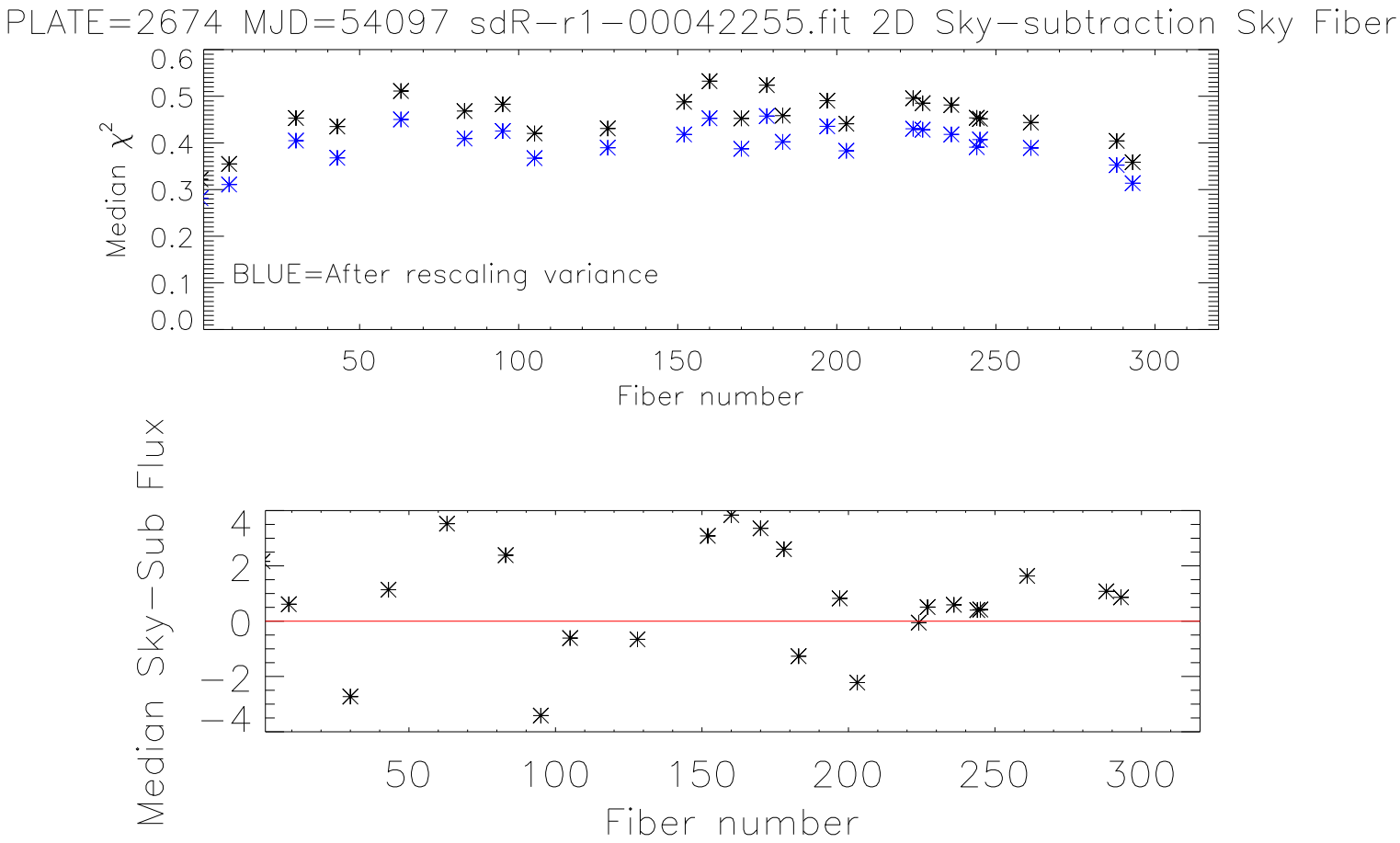

PLATE=2674 MJD=54097 sdR-r1-00042255.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

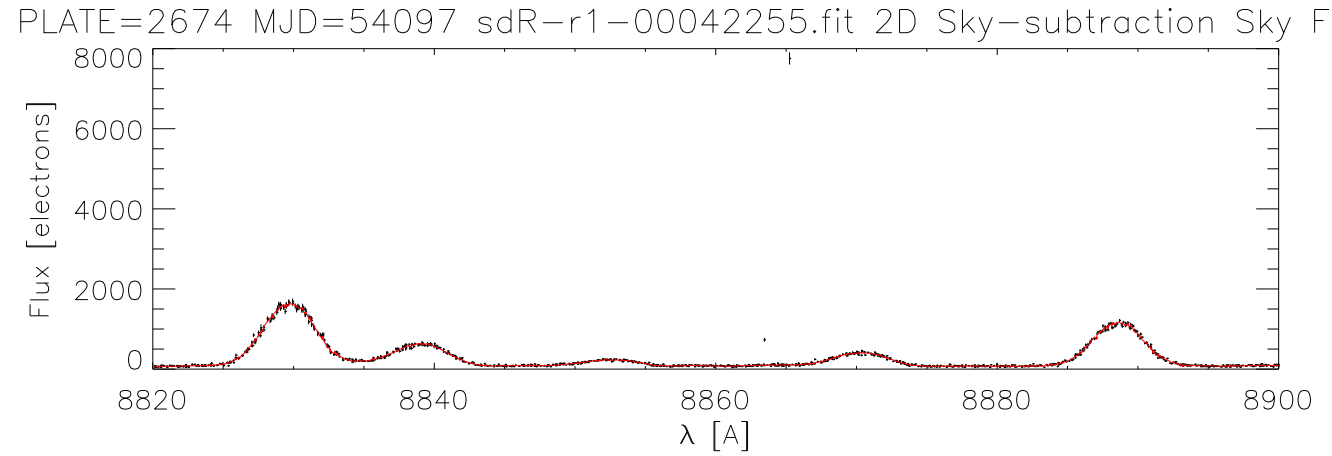
Median Sky-Sub Flux
1.1e-06
1.2e-06
1.3e-06
1.4e-06
1.5e-06
1.6e-06
50
100
150
200
250
300
Fiber number

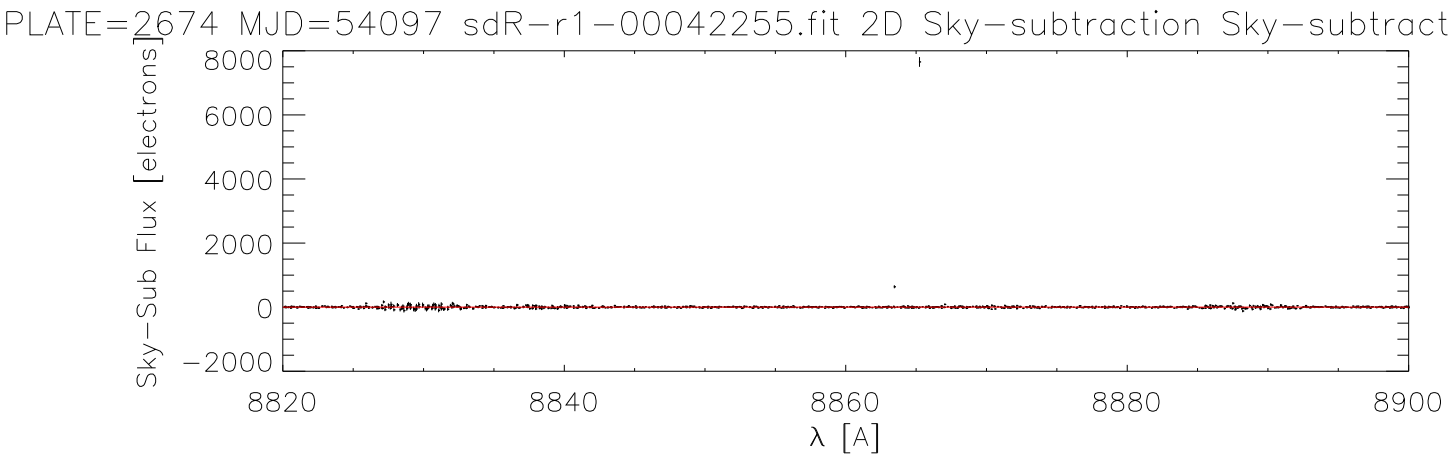

PLATE=2674 MJD=54097 sdR-r1-00042255.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

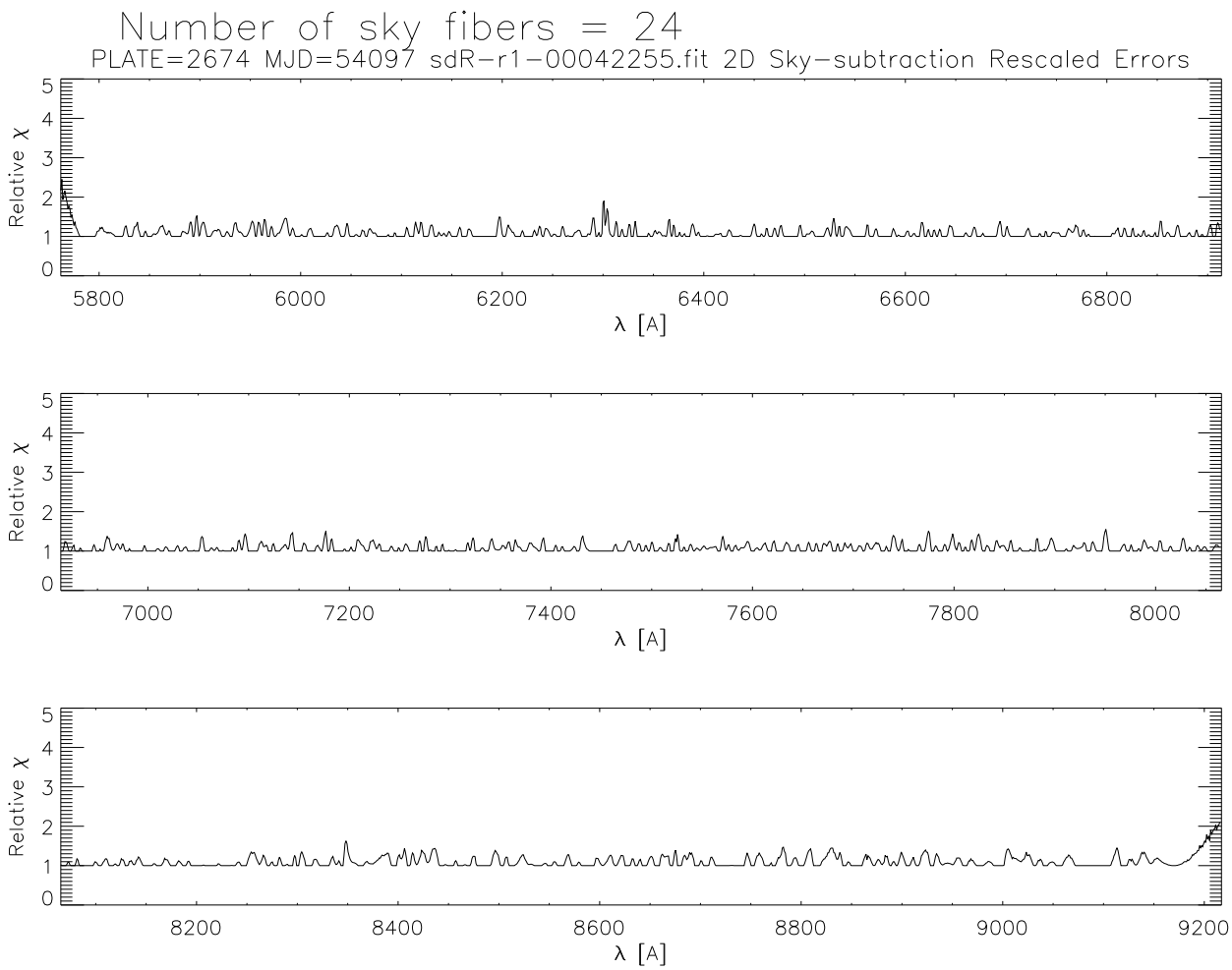

PLATE=2674 MJD=54097 sdR-r1-00042255.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
8000
6000
4000
2000
0
-2000
8820
8840
8860
8880
8900
λ [A]

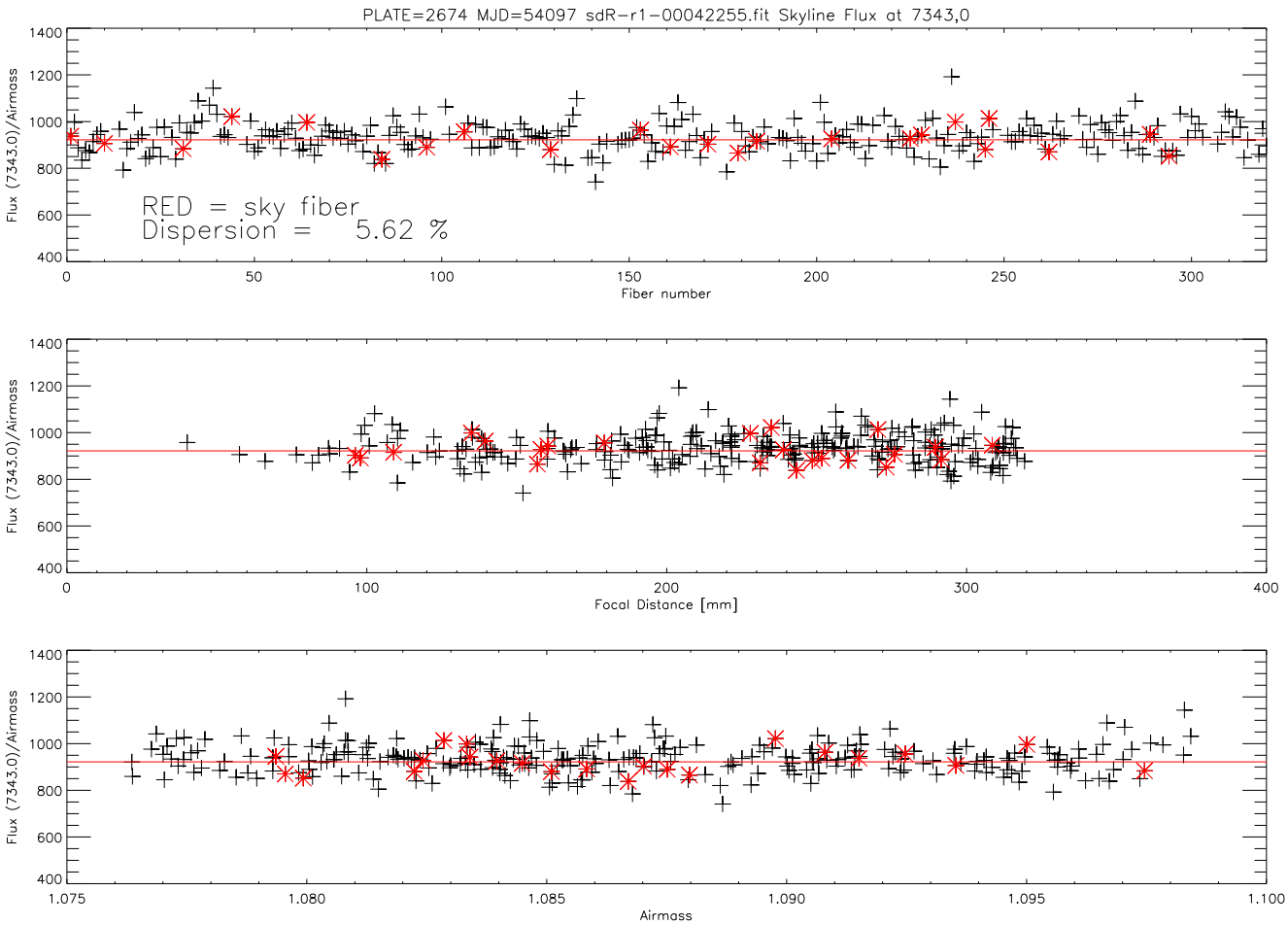

Number of sky fibers = 24
PLATE=2674 MJD=54097 sdR-r1-00042255.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

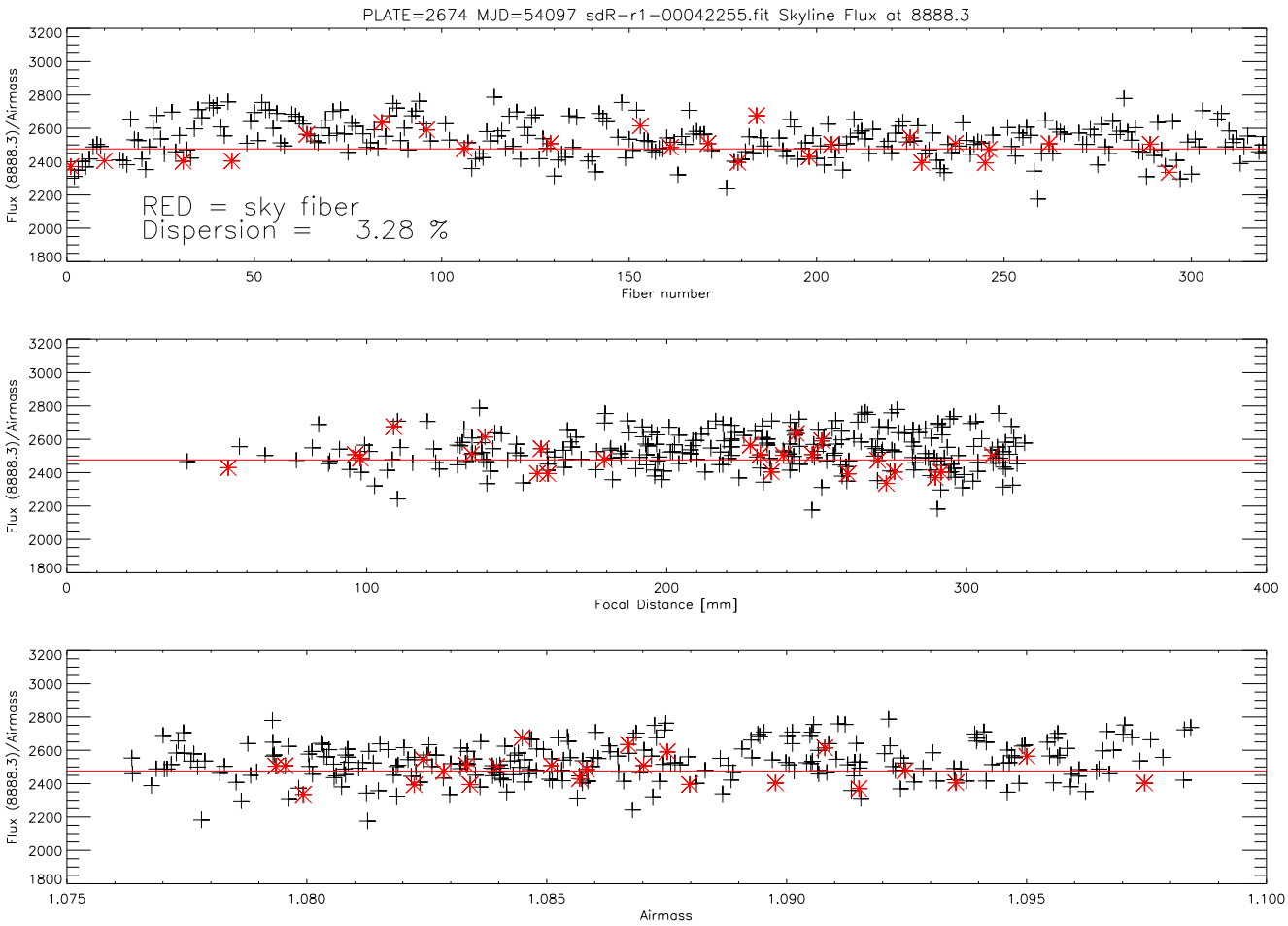

PLATE=2674 MJD=54097 sdR-r1-00042255.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

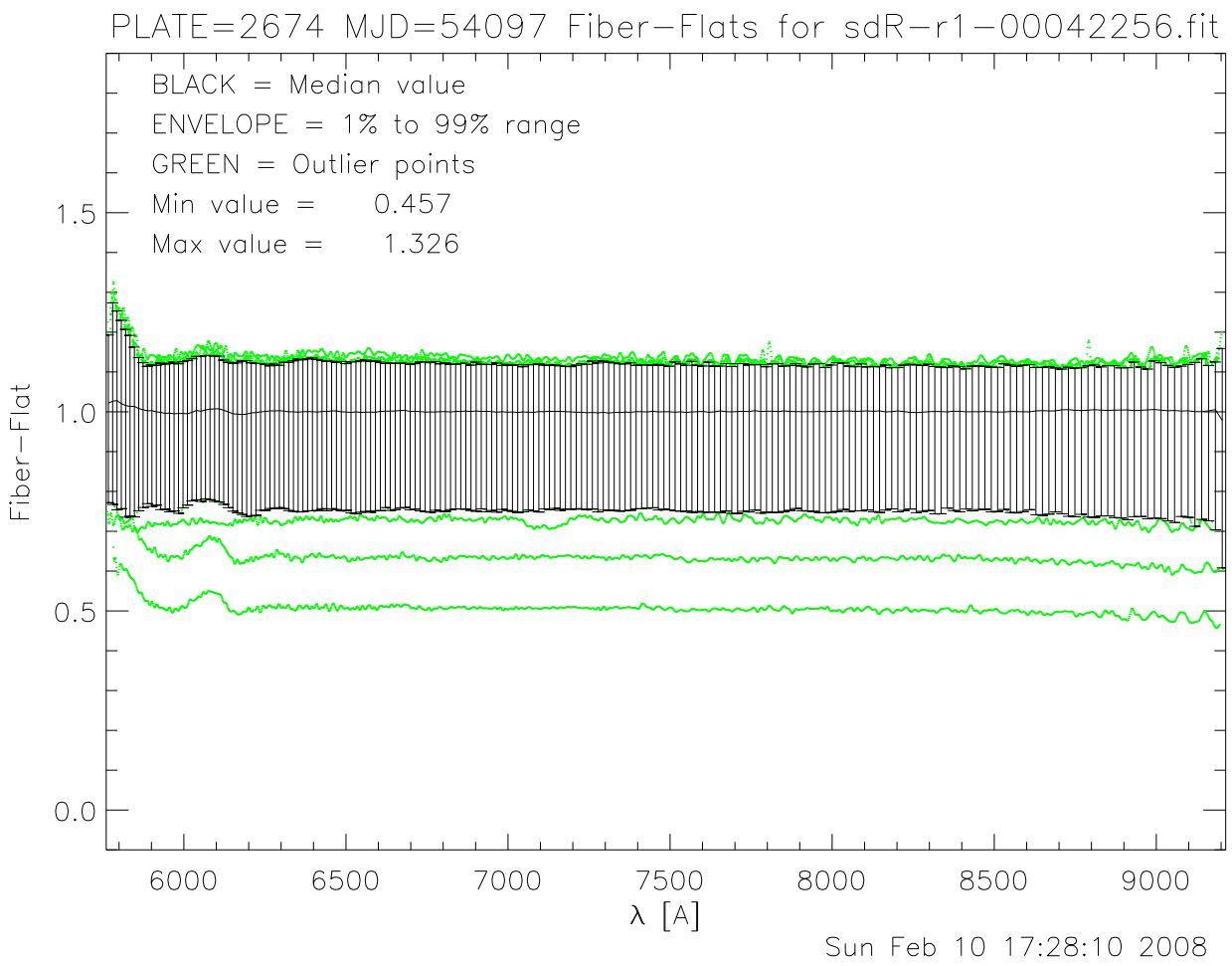

PLATE=2674 MJD=54097 sdR-r1-00042255.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

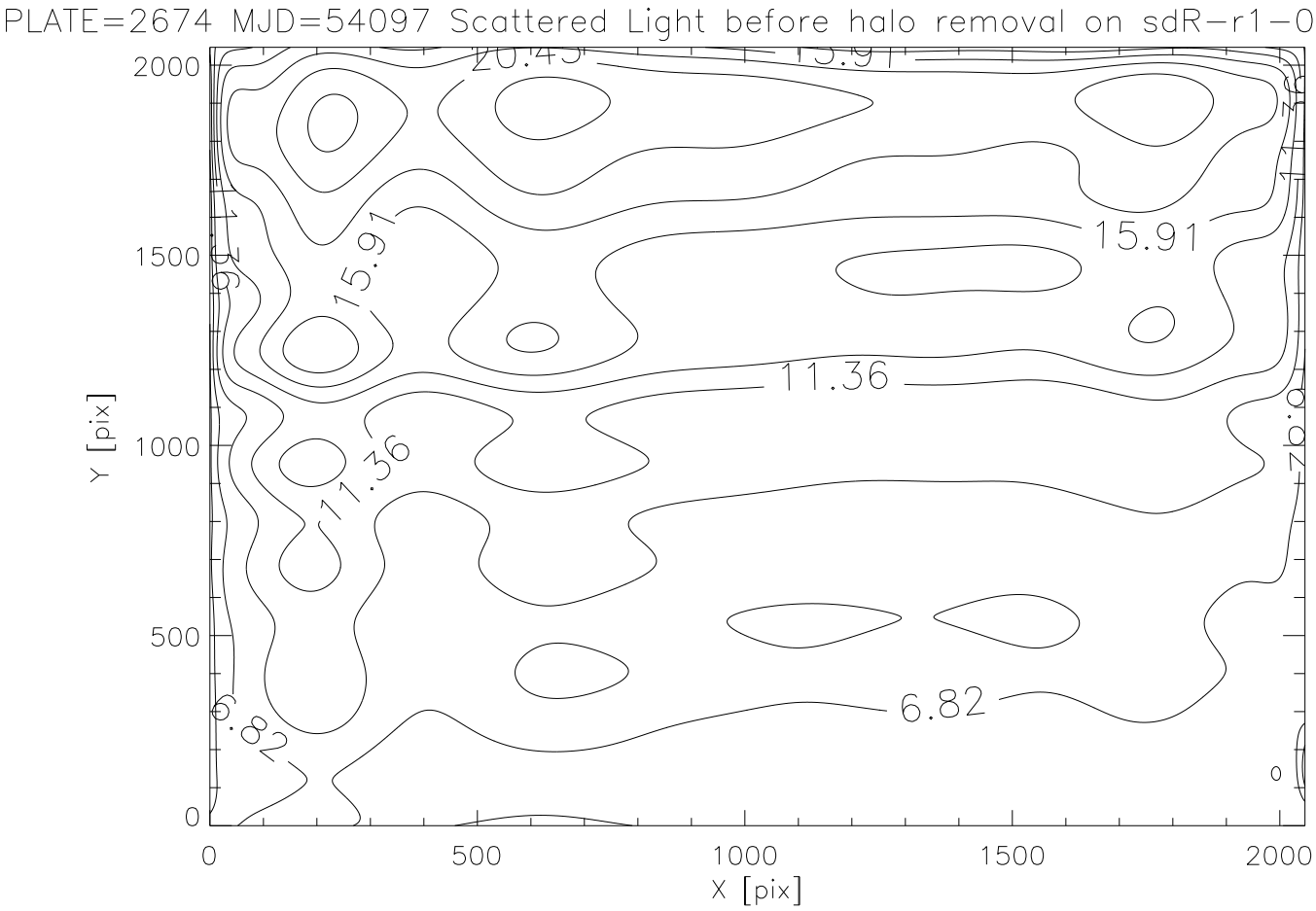

PLATE=2674 MJD=54097 sdR-r1-00042255.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
8000
6000
4000
2000
0
-2000
8820
8840
8860
8880
8900
λ [A]

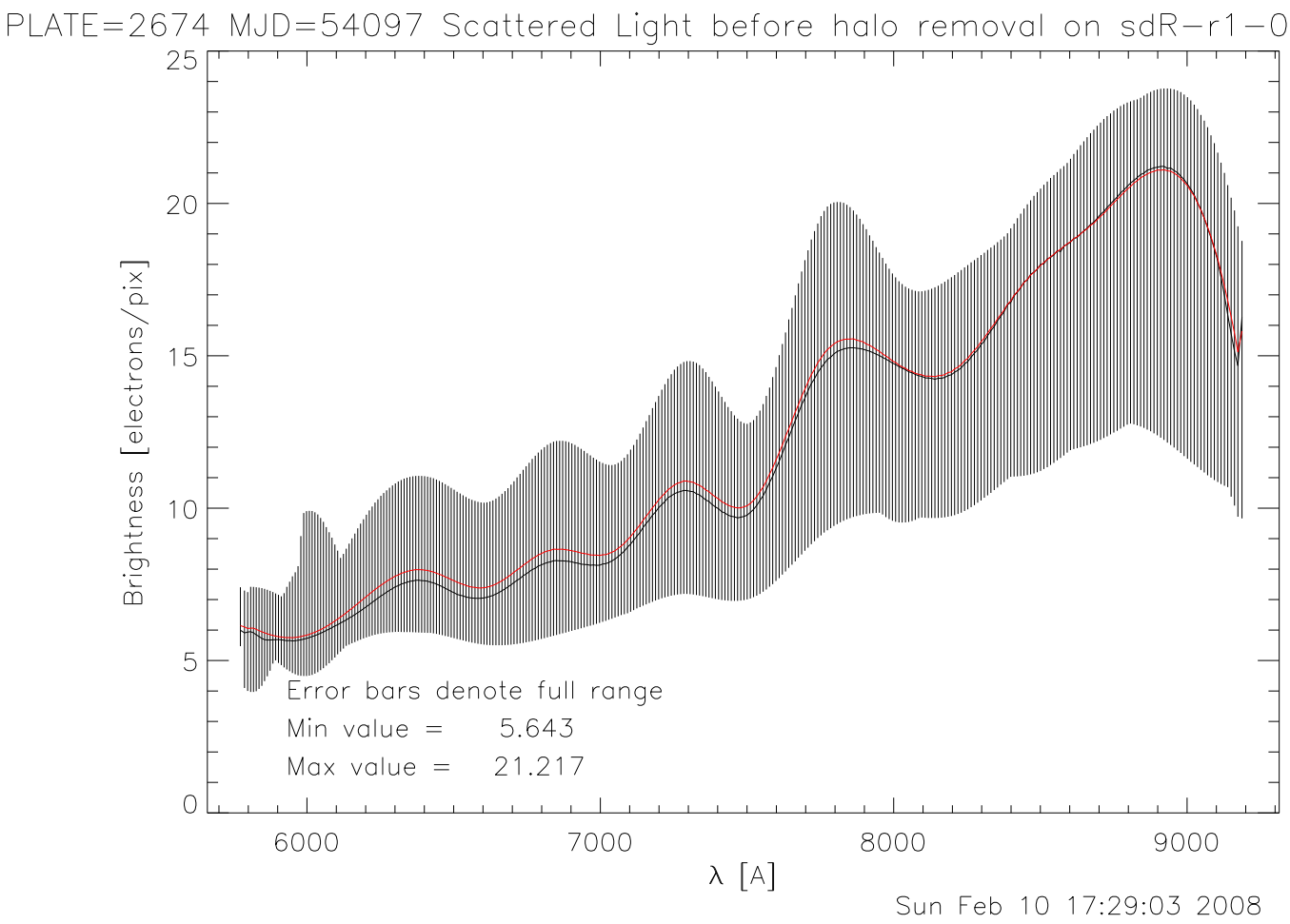

Number of sky fibers = 24
PLATE=2674 MJD=54097 sdR-r1-00042255.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

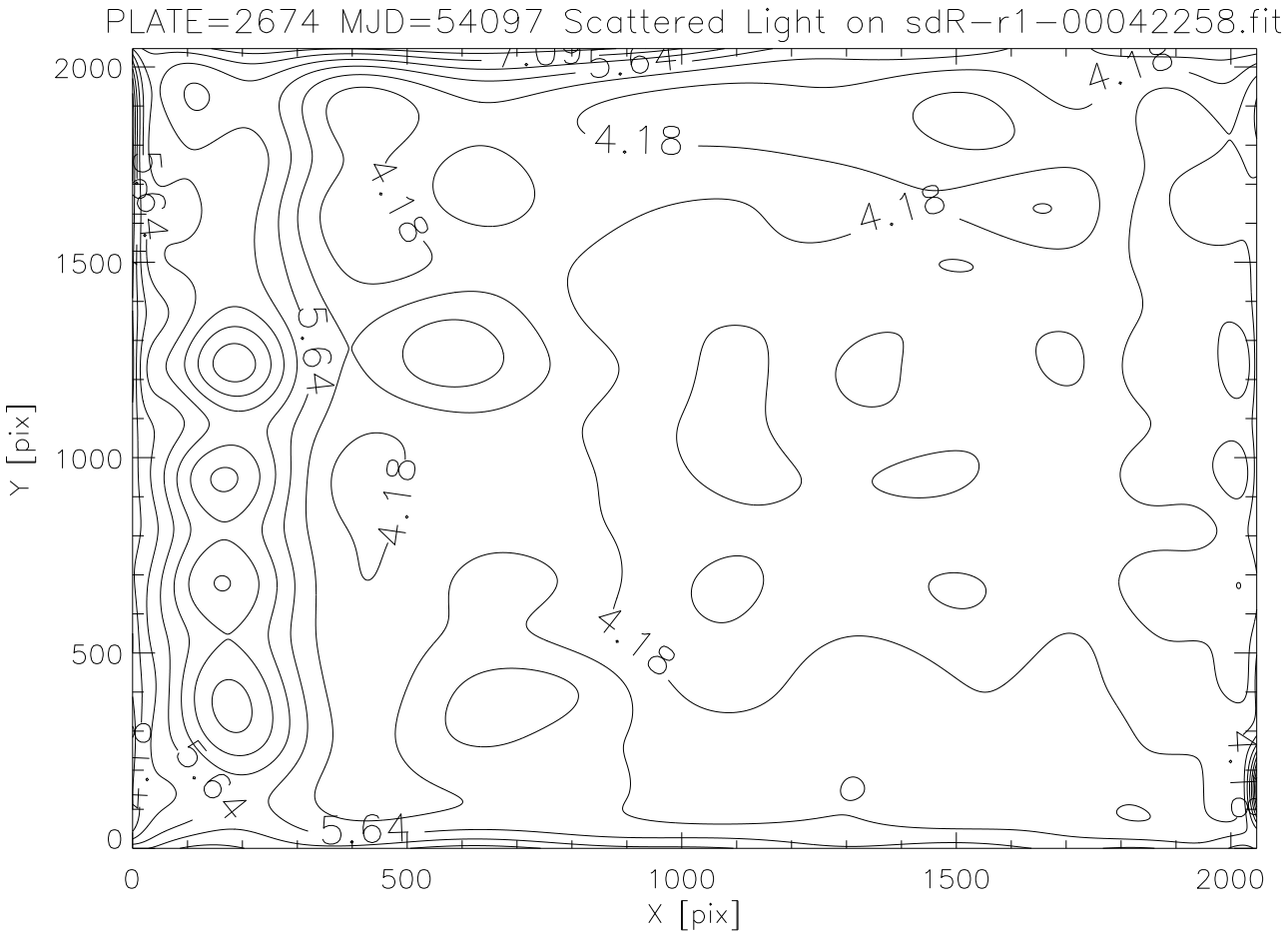

PLATE=2674 MJD=54097 sdR-r1-00042255.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 5.62 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

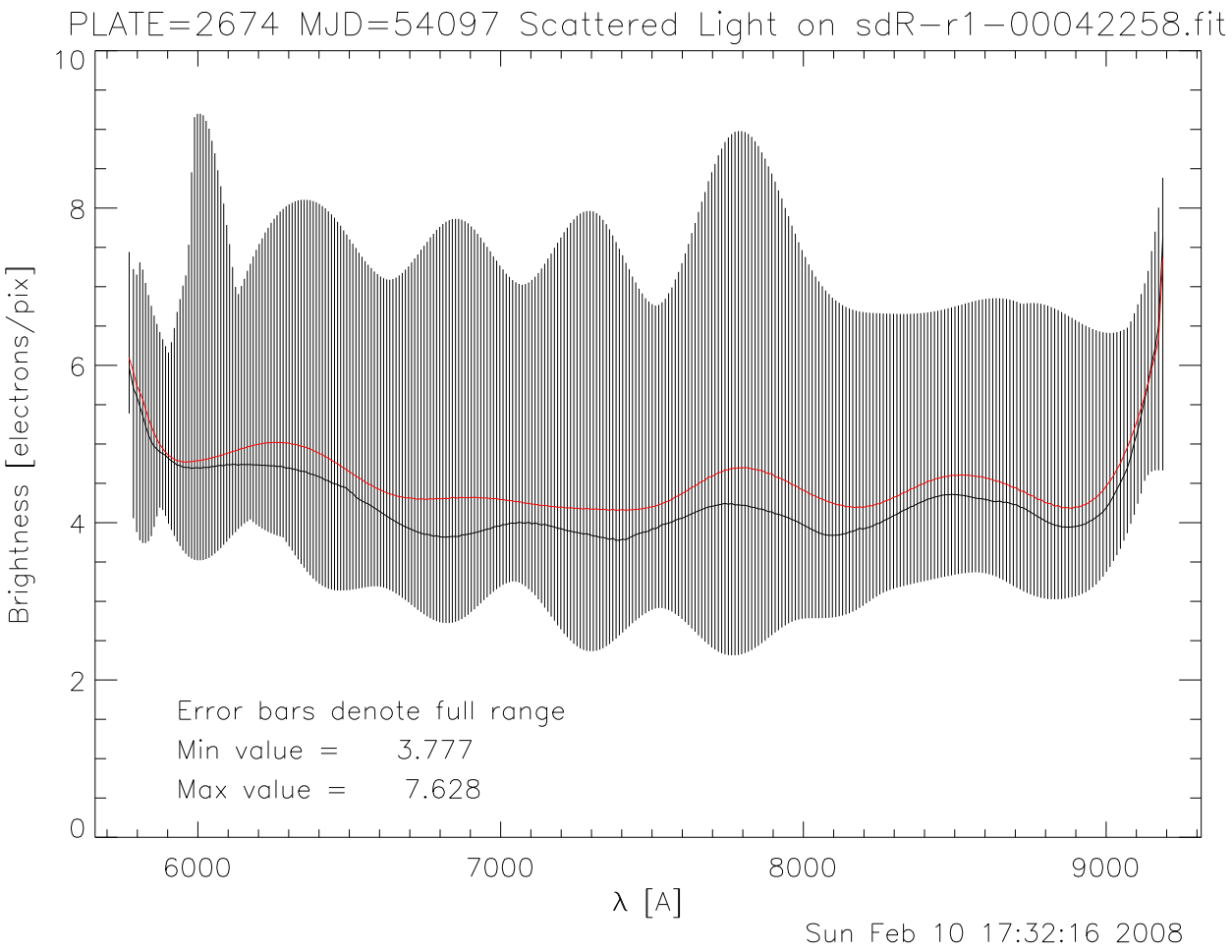

PLATE=2674 MJD=54097 sdR-r1-00042255.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.28 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

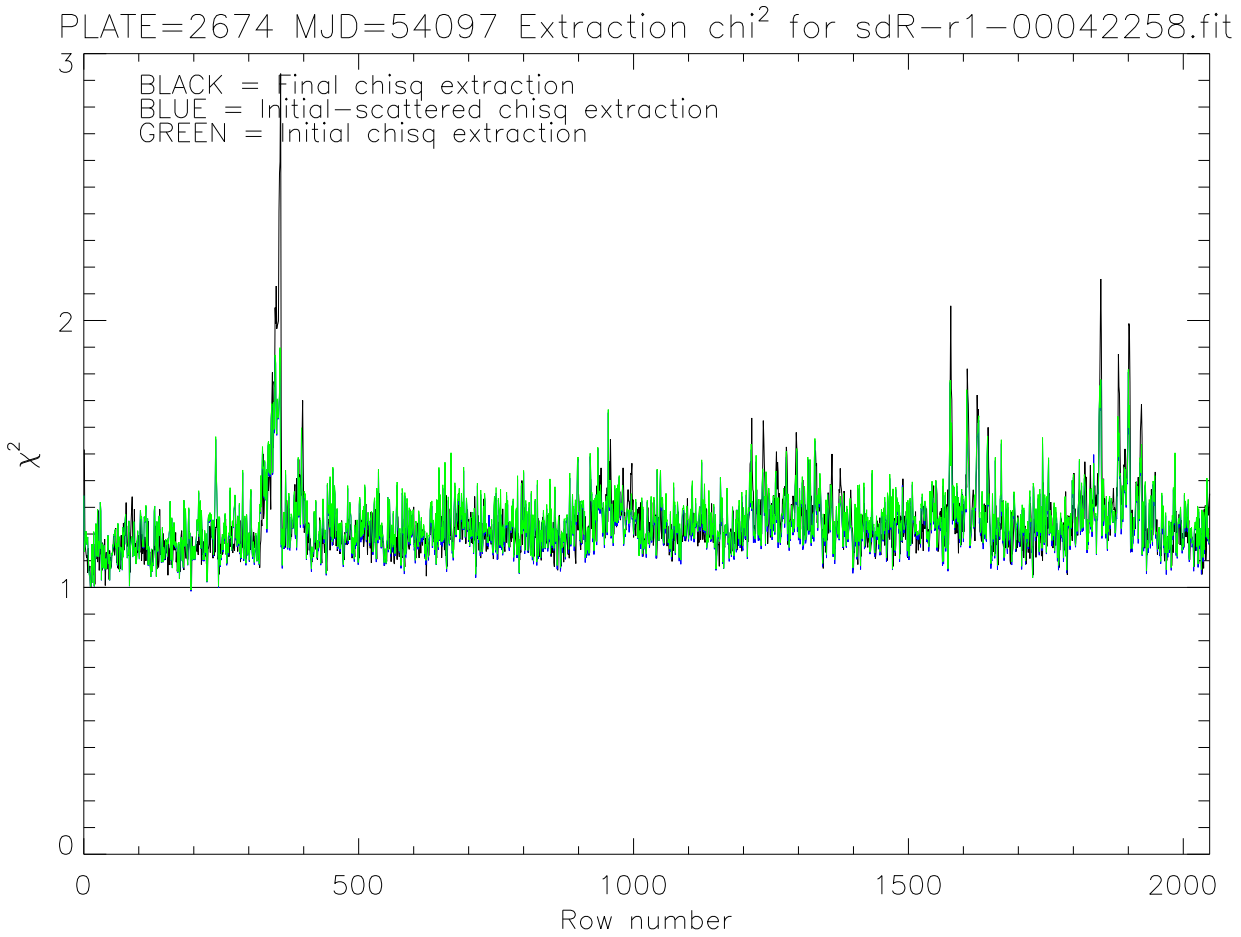

PLATE=2674 MJD=54097 Fiber−Flats for sdR−r1−00042256.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.457
Max value = 1.326
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sun Feb 10 17:28:10 2008

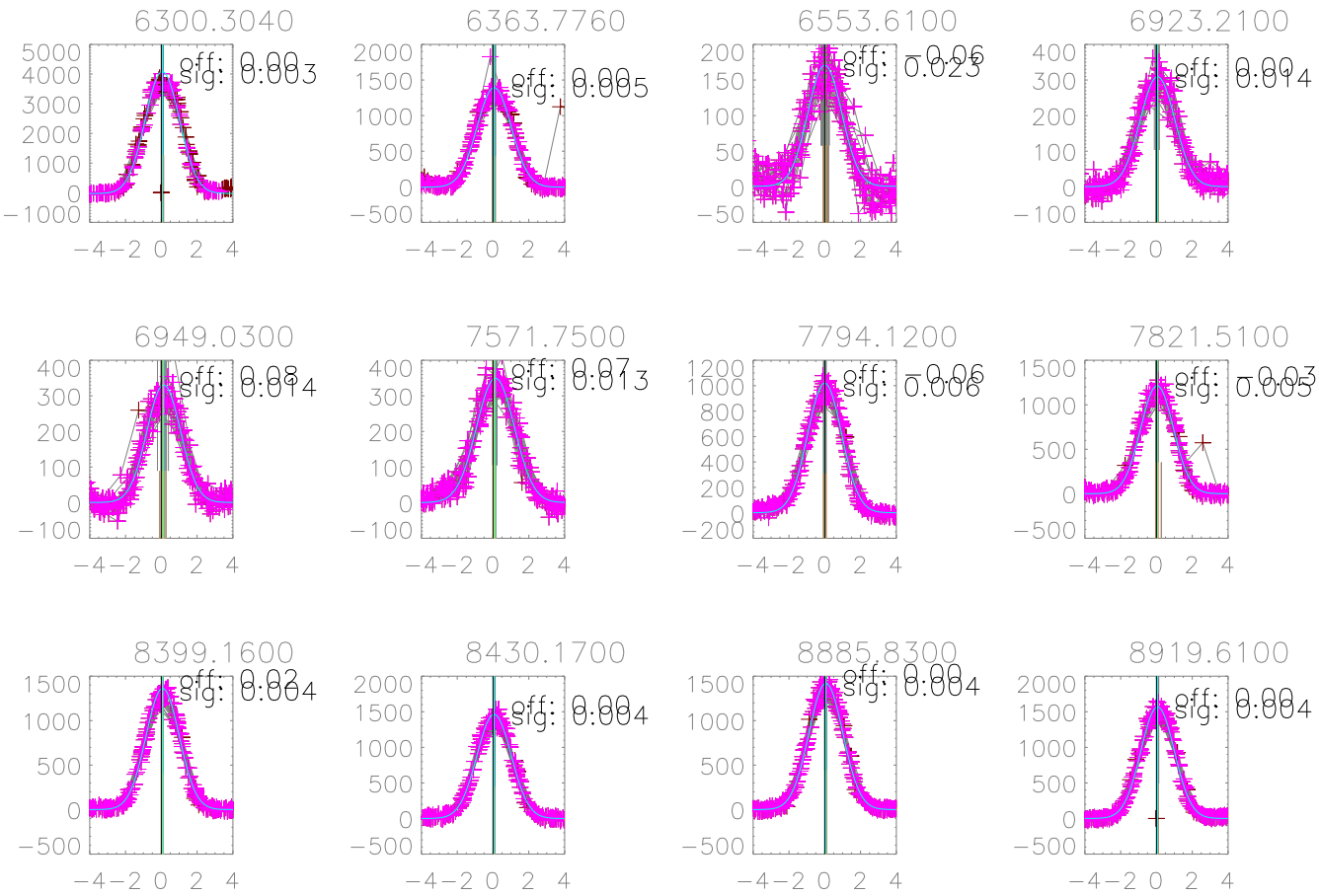

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR-r1-00042258.fi
20.45
15.91
11.36
6.82
0
Y [pix]
X [pix]
0
500
1000
1500
2000

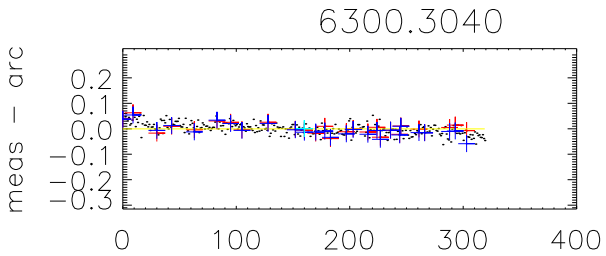

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR-r1-00042258.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.643
Max value = 21.217
Sun Feb 10 17:29:03 2008

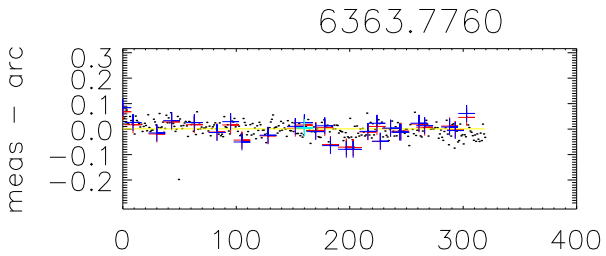

PLATE=2674 MJD=54097 Scattered Light on sdR-r1-00042258.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
4.18
5.64

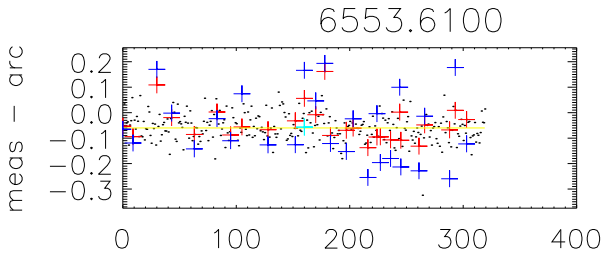

PLATE=2674 MJD=54097 Scattered Light on sdR-r1-00042258.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.777
Max value = 7.628
Sun Feb 10 17:32:16 2008

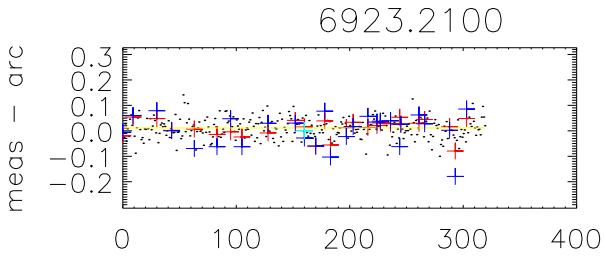

PLATE=2674 MJD=54097 Extraction chi^2 for sdR−r1−00042258.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
0
500
1000
1500
2000
Row number

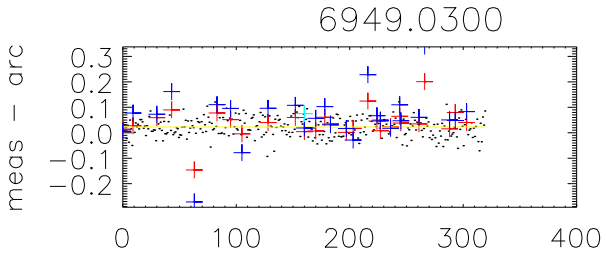

6300.3040
off: 0.00
sig: 0.003
6363.7760
off: 0.00
sig: 0.005
6553.6100
off: −0.06
sig: 0.023
6923.2100
off: 0.00
sig: 0.014
6949.0300
off: 0.08
sig: 0.014
7571.7500
off: 0.07
sig: 0.013
7794.1200
off: −0.06
sig: 0.006
7821.5100
off: −0.03
sig: 0.005
8399.1600
off: 0.02
sig: 0.004
8430.1700
off: 0.00
sig: 0.004
8885.8300
off: 0.00
sig: 0.004
8919.6100
off: 0.00
sig: 0.004

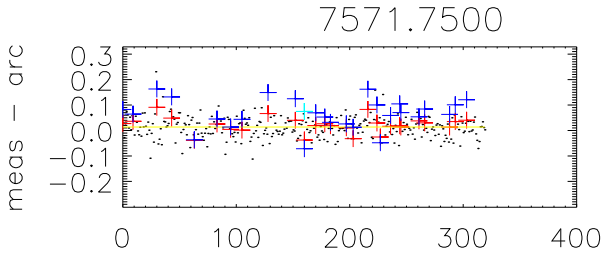

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

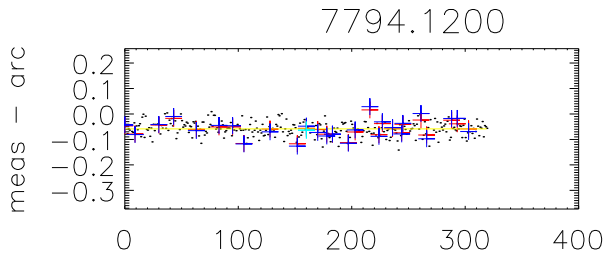

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

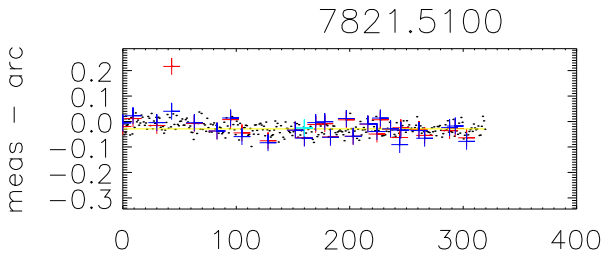

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

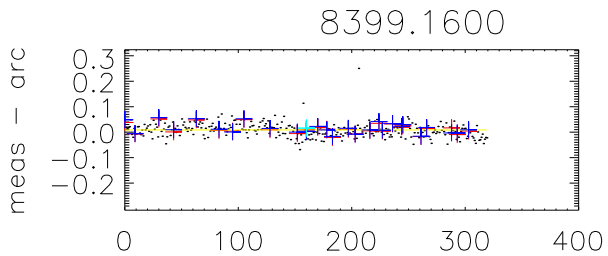

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

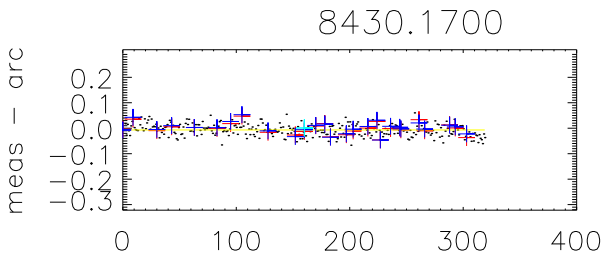

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

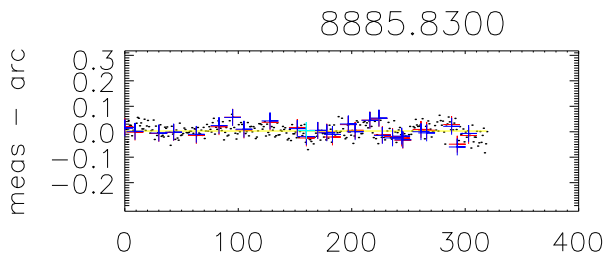

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

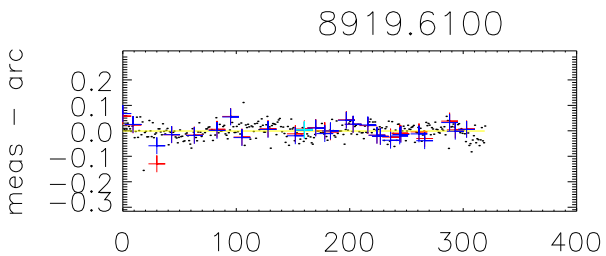

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

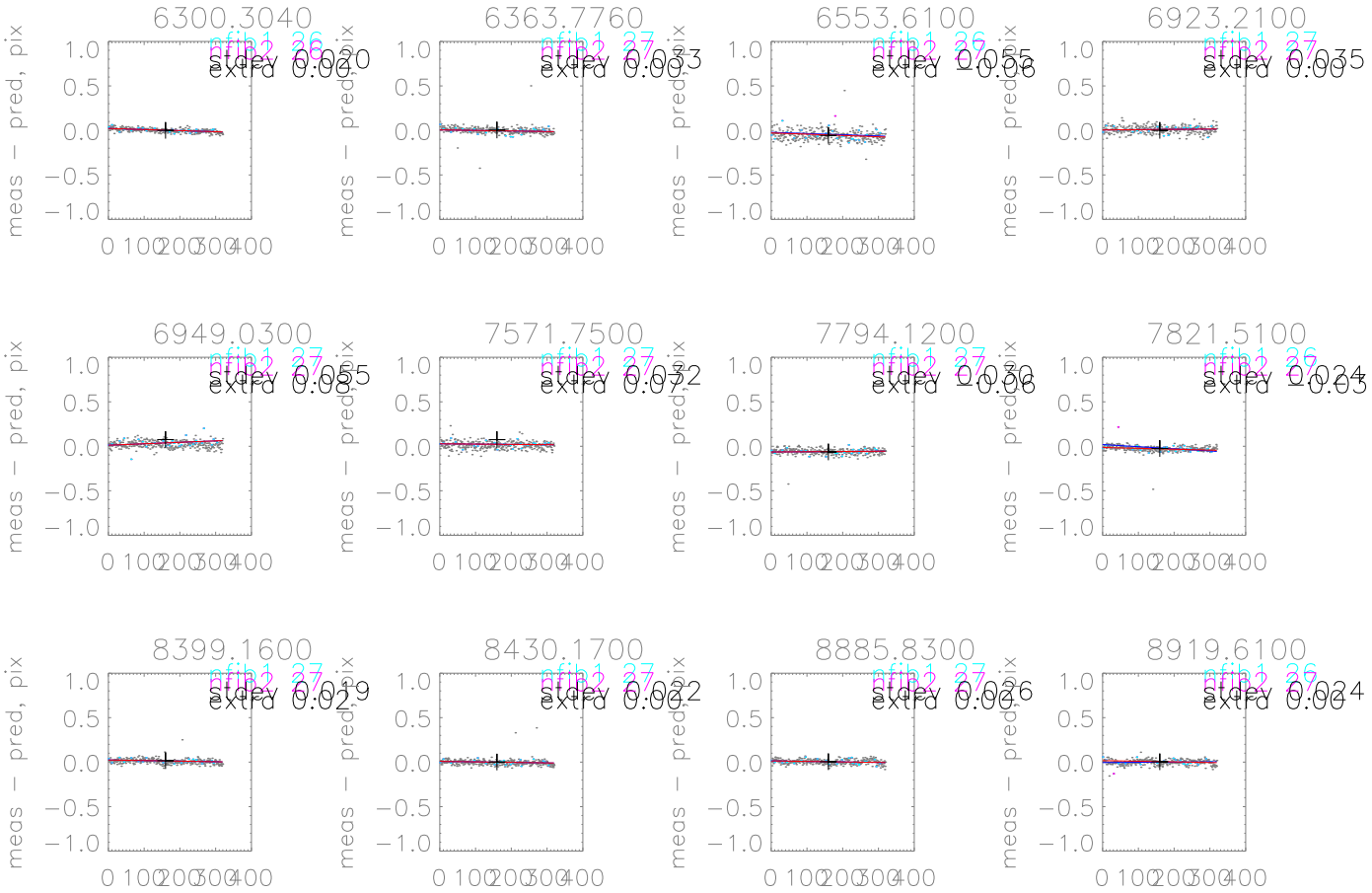

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

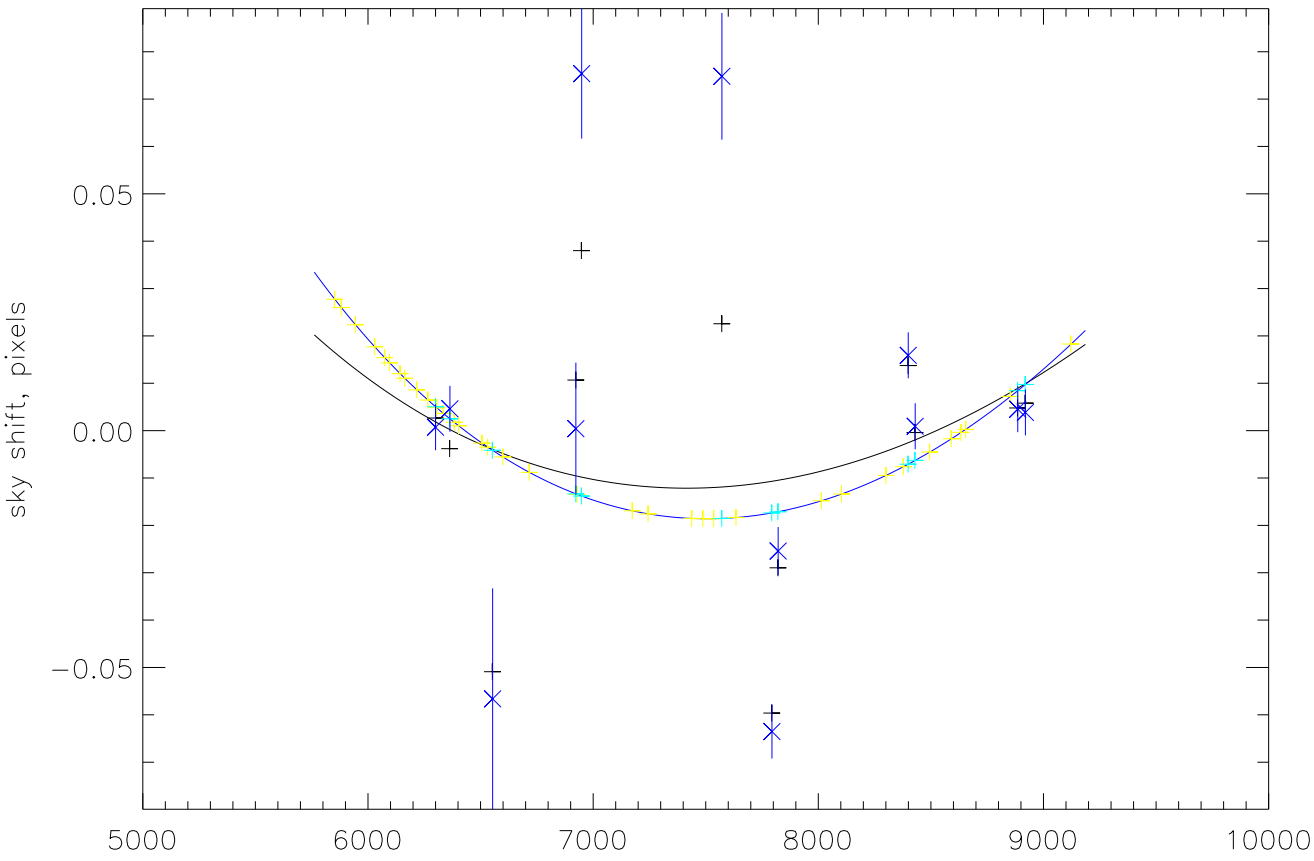

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

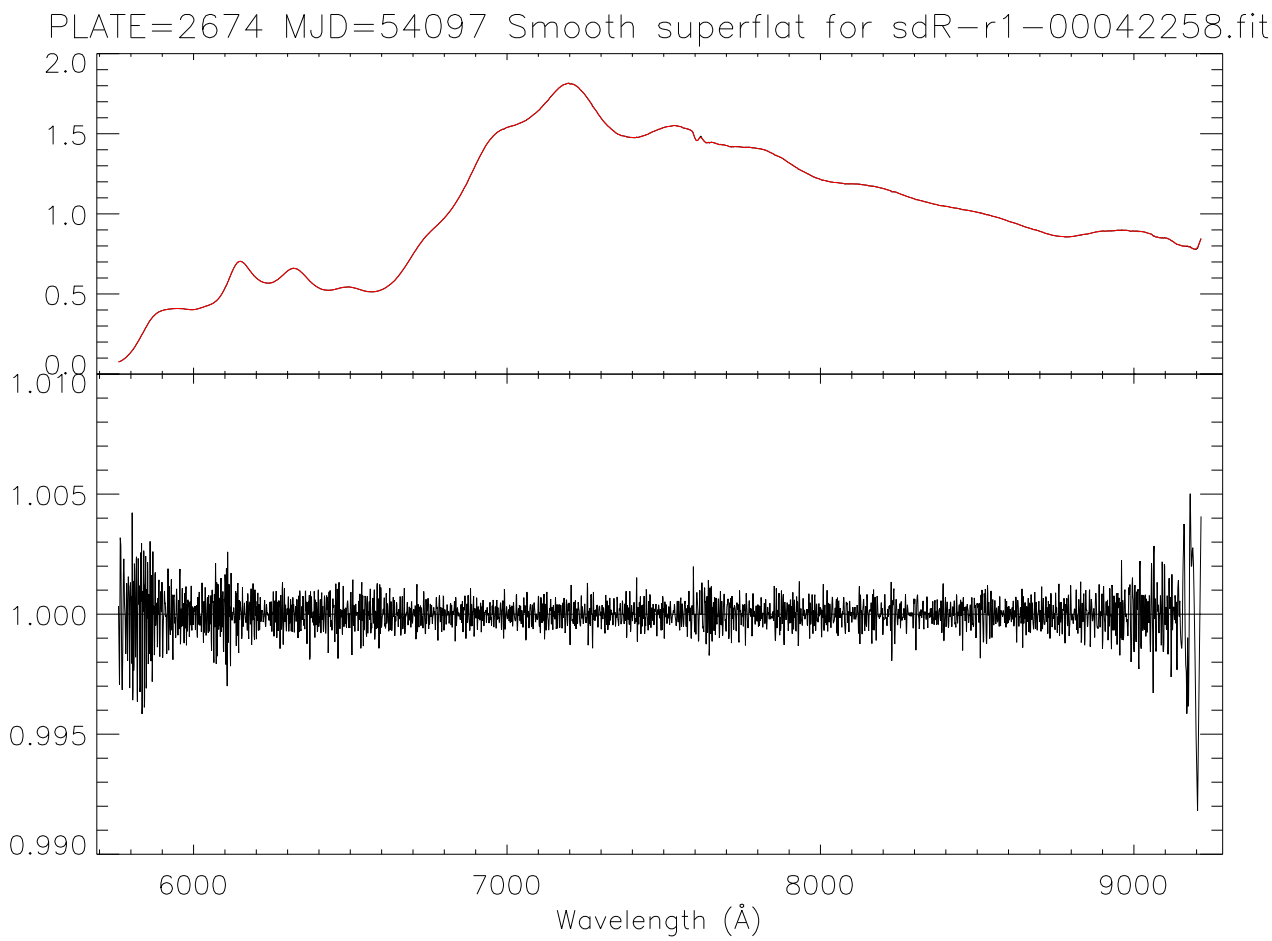

8885.8300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

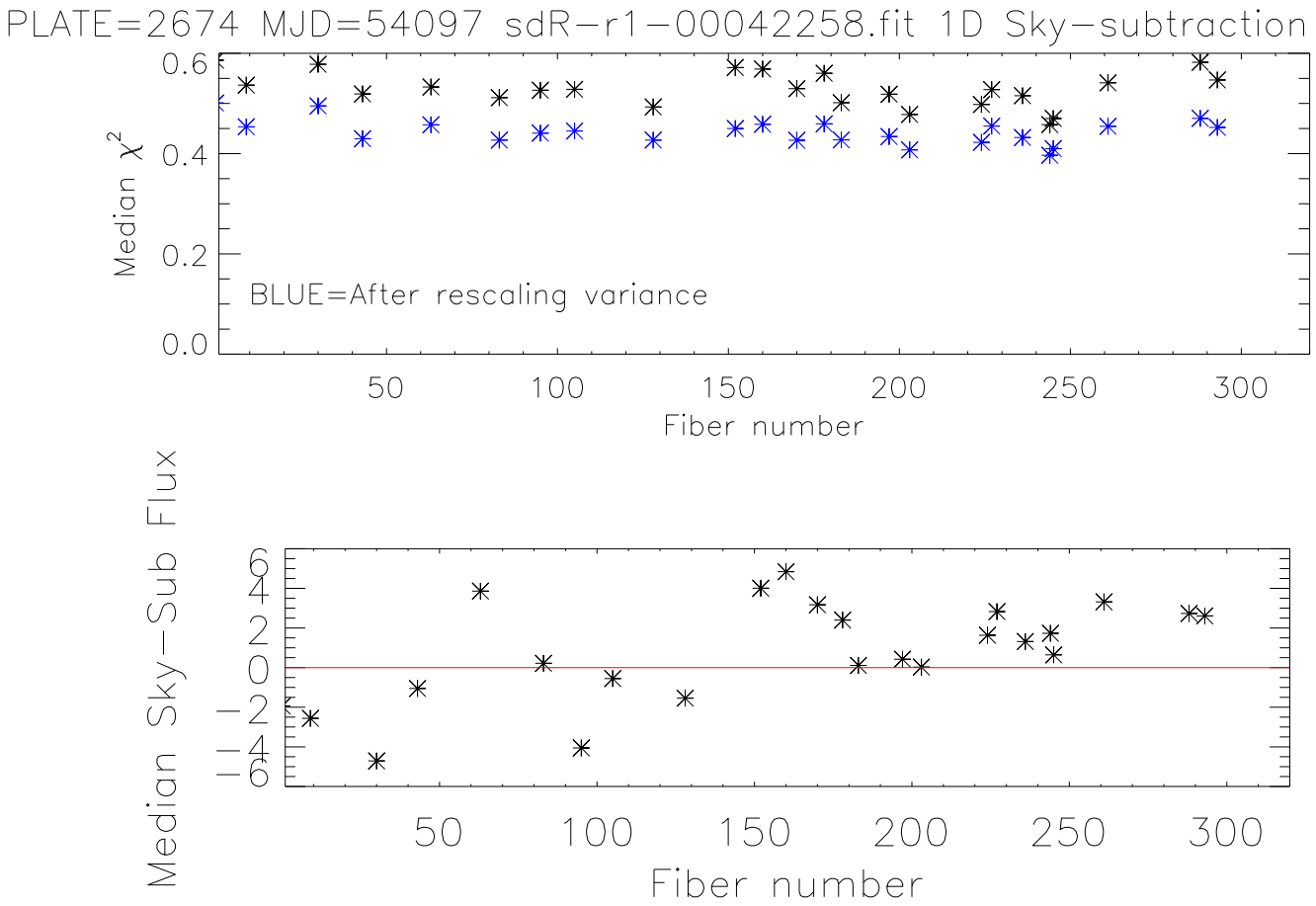

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

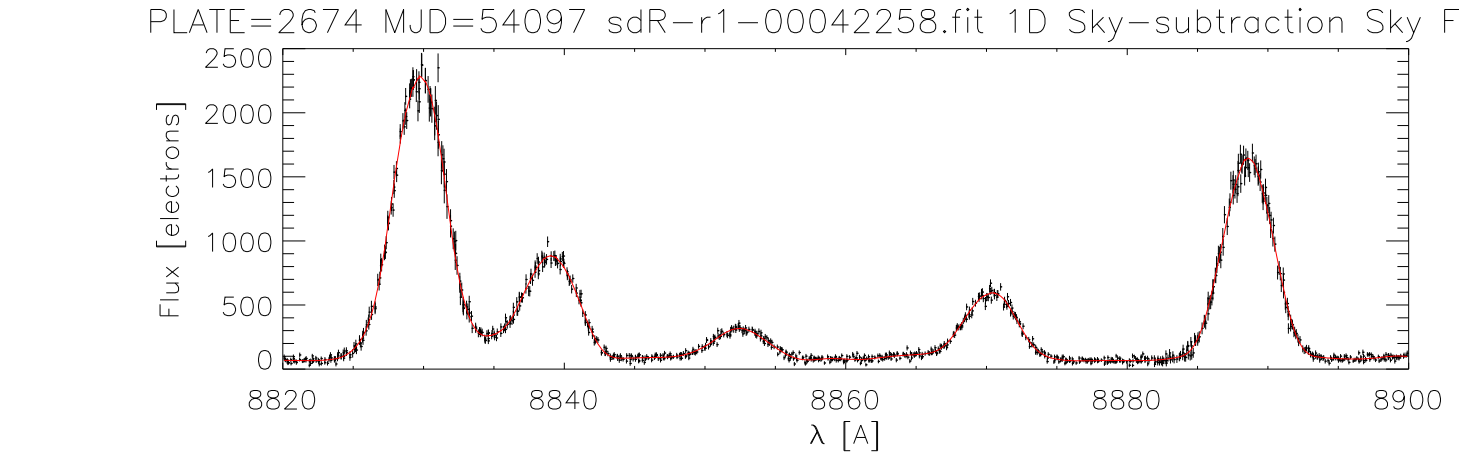

6300.3040
mfib1 26
mfib2 27
stdev 0.020
extra 0.06
6363.7760
mfib1 27
mfib2 27
stdev 0.033
extra 0.00
6553.6100
mfib1 26
mfib2 27
stdev 0.055
extra −0.08
6923.2100
mfib1 27
mfib2 27
stdev 0.035
extra 0.00
6949.0300
mfib1 27
mfib2 27
stdev 0.055
extra 0.08
7571.7500
mfib1 27
mfib2 27
stdev 0.032
extra 0.07
7794.1200
mfib1 27
mfib2 27
stdev 0.030
extra −0.08
7821.5100
mfib1 26
mfib2 27
stdev 0.024
extra −0.03
8399.1600
mfib1 27
mfib2 27
stdev 0.019
extra 0.02
8430.1700
mfib1 27
mfib2 27
stdev 0.022
extra 0.04
8885.8300
mfib1 27
mfib2 27
stdev 0.026
extra 0.04
8919.6100
mfib1 26
mfib2 27
stdev 0.024
extra 0.00
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

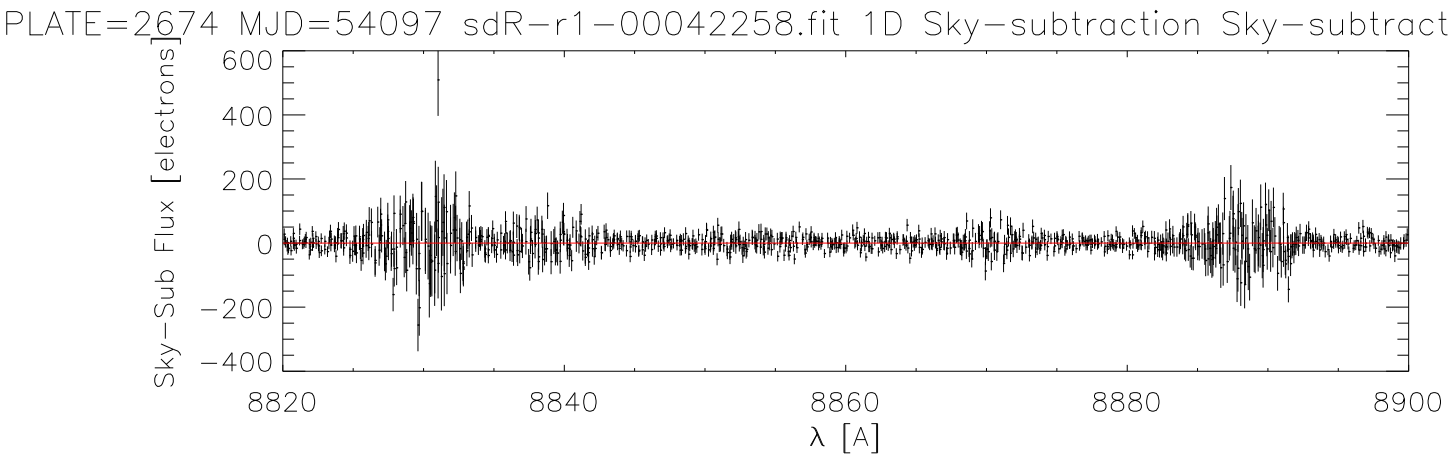

sky shift, pixels
0.05
0.00
−0.05
5000
6000
7000
8000
9000
10000

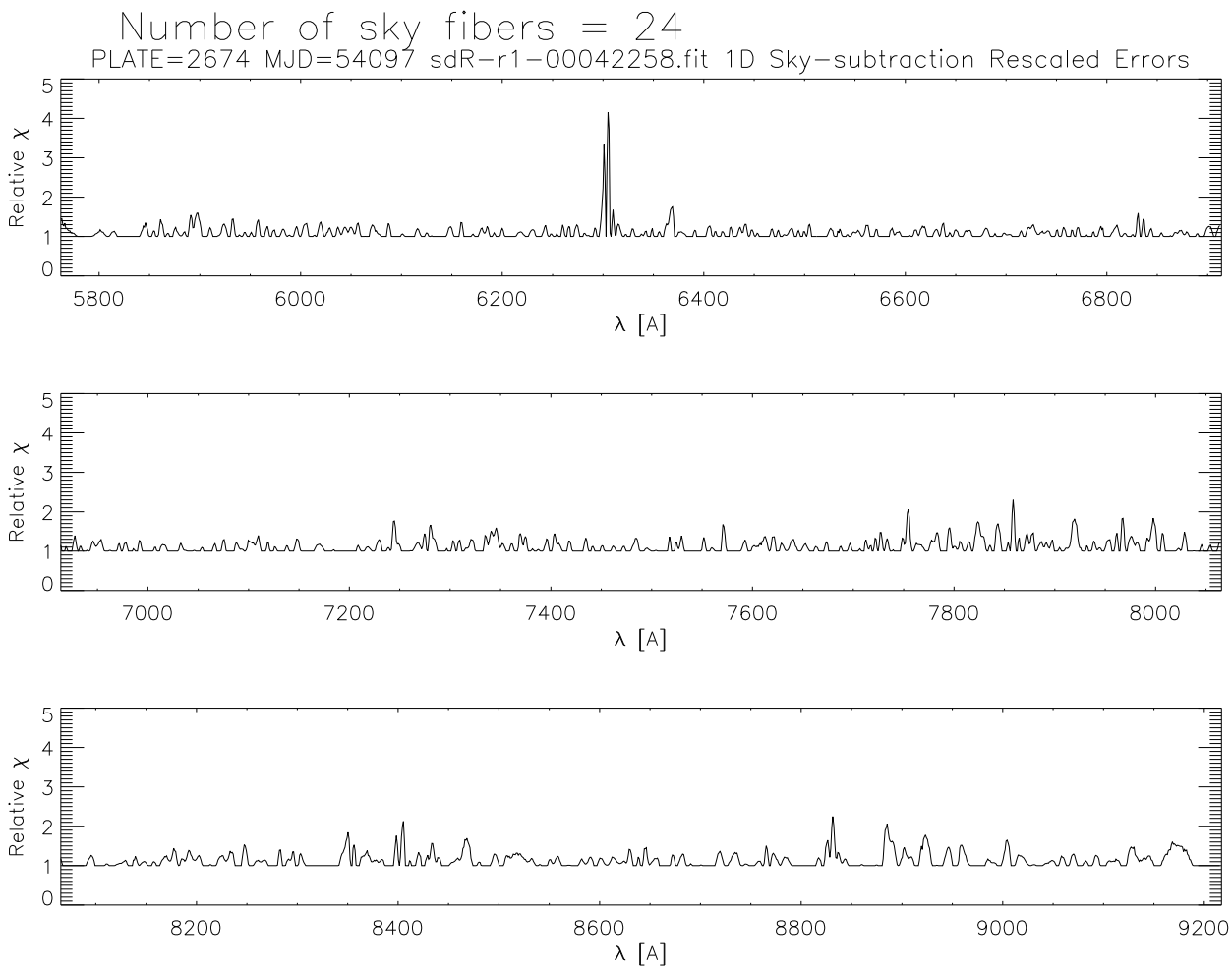
es= 0.0000

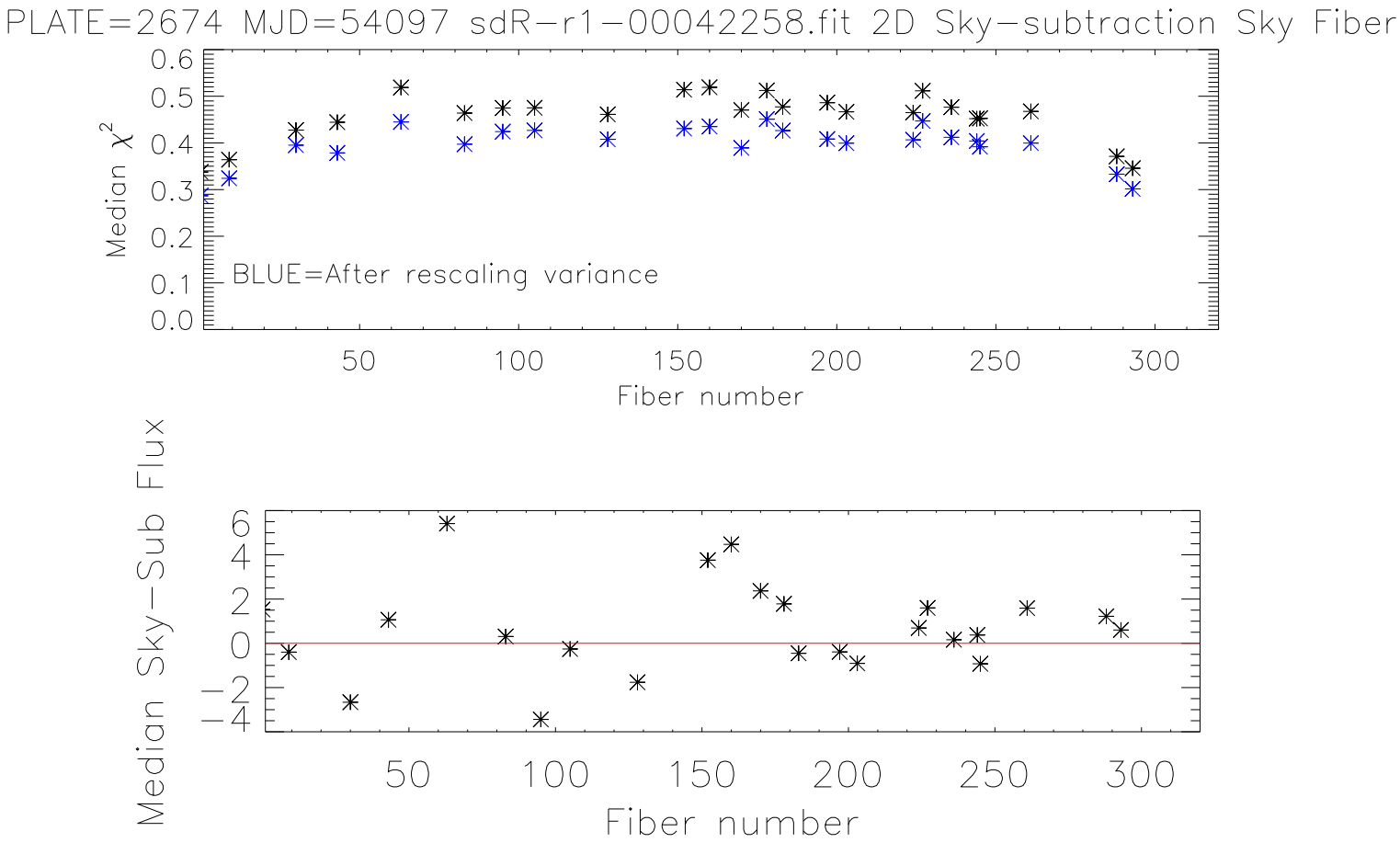

PLATE=2674 MJD=54097 Smooth superflat for sdR-r1-00042258.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

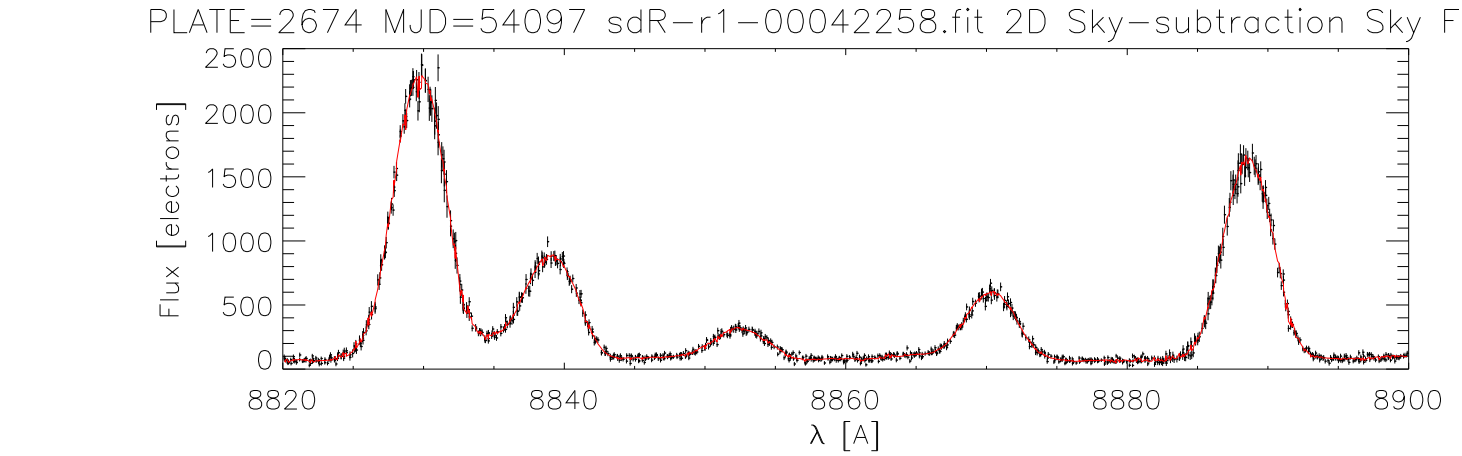

PLATE=2674 MJD=54097 sdR-r1-00042258.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

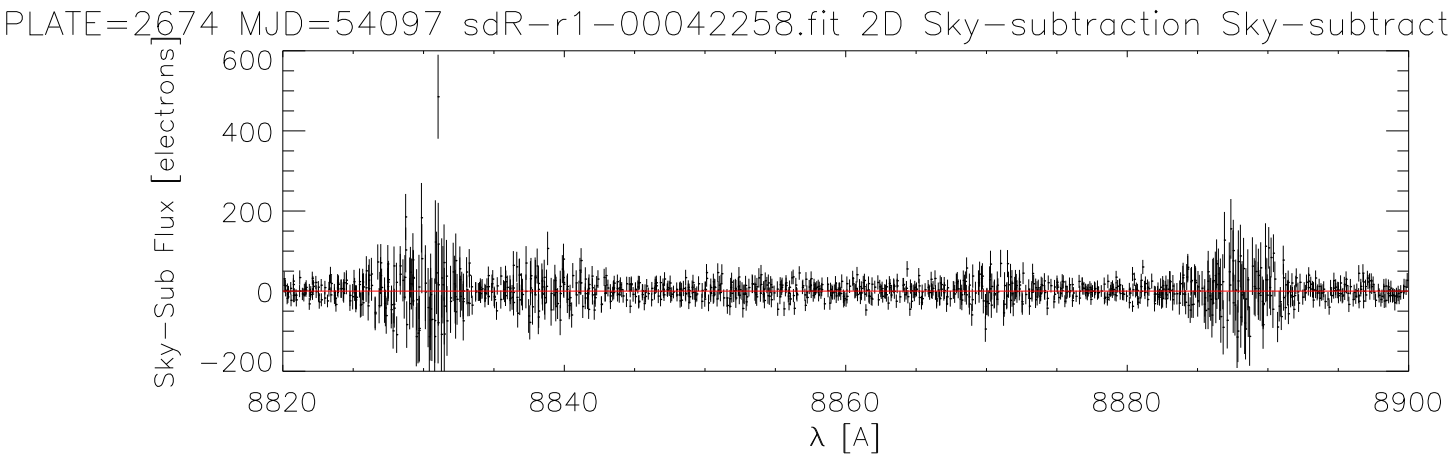

PLATE=2674 MJD=54097 sdR-r1-00042258.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

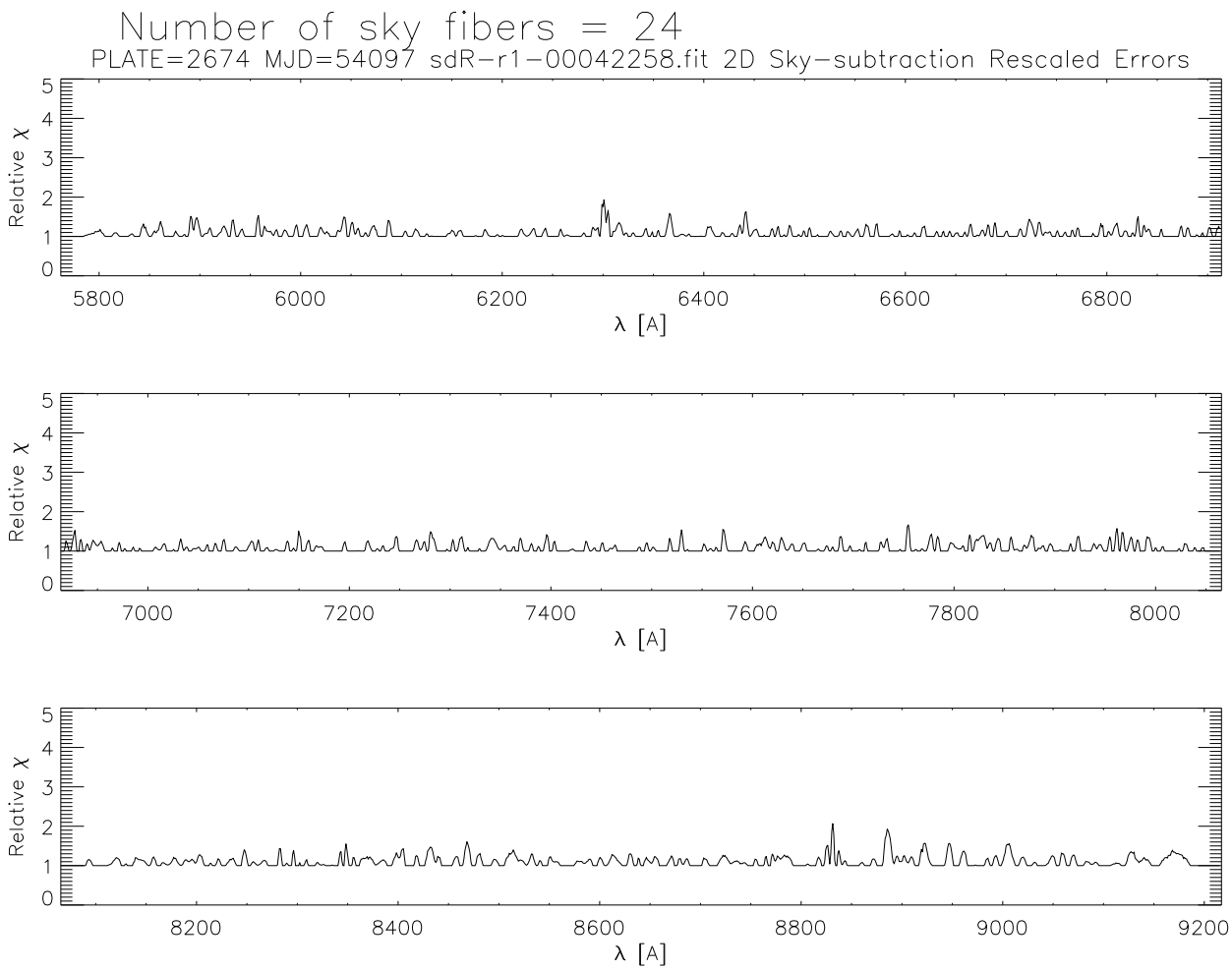

PLATE=2674 MJD=54097 sdR-r1-00042258.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

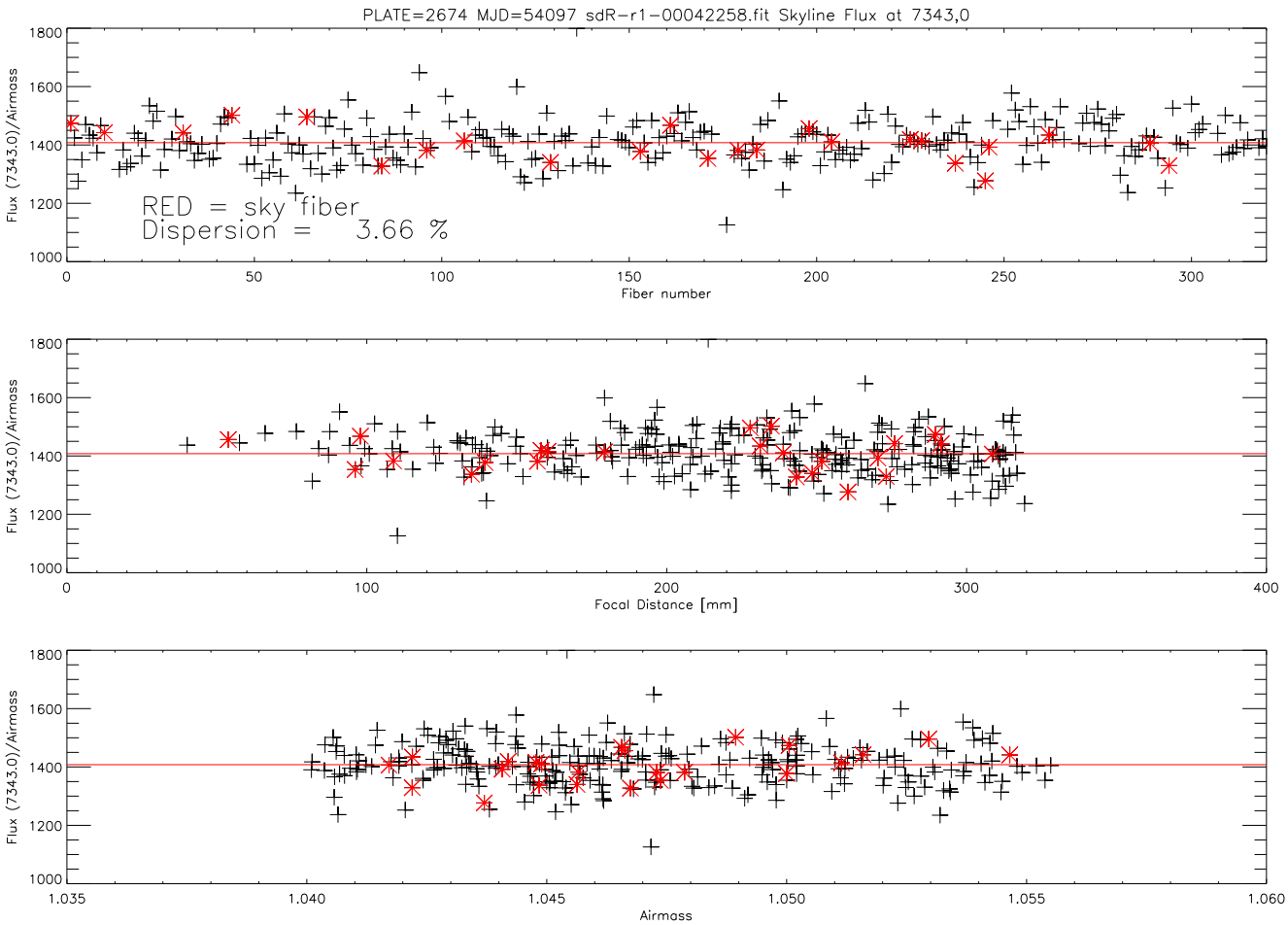

Number of sky fibers = 24
PLATE=2674 MJD=54097 sdR-r1-00042258.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

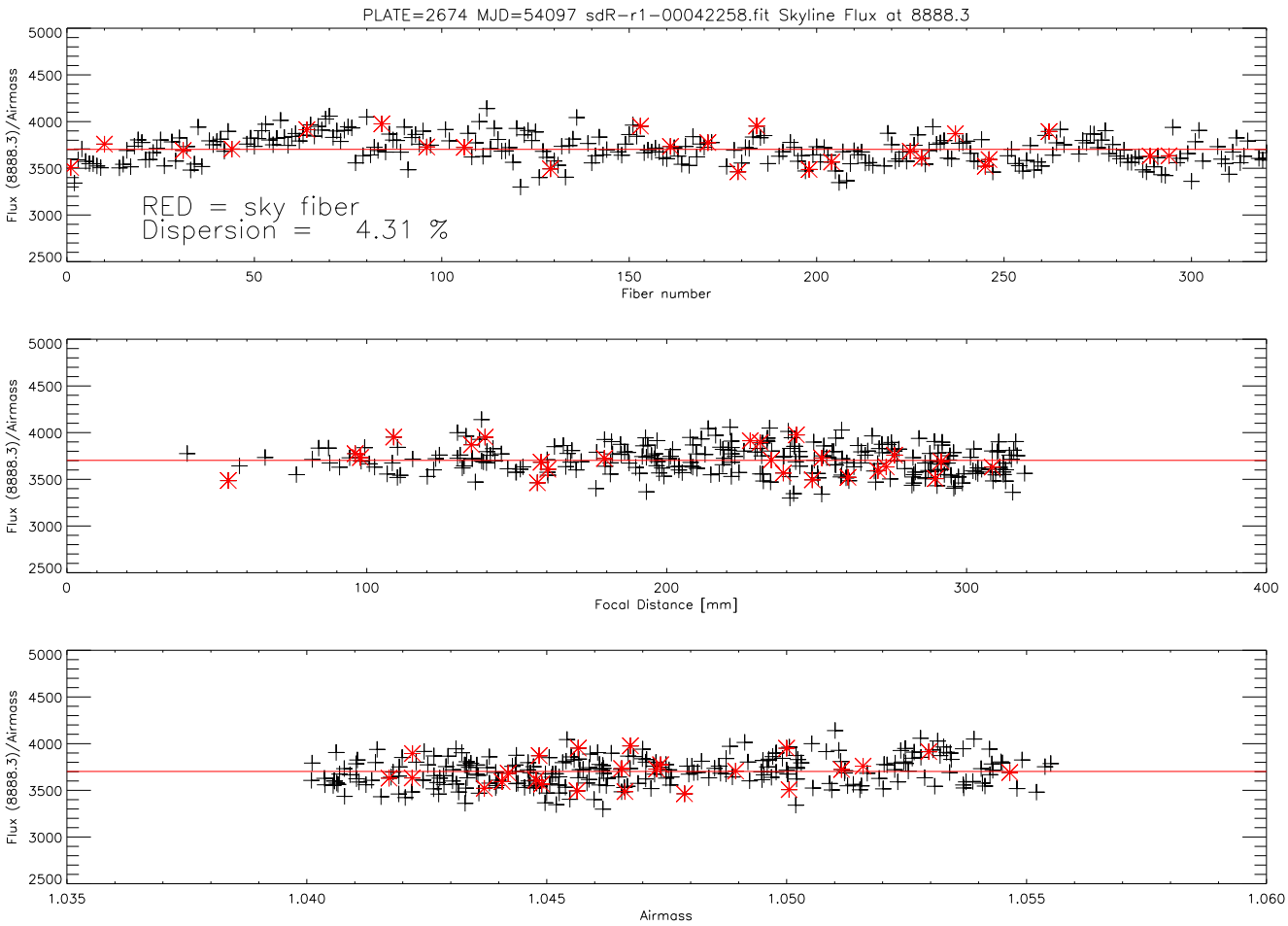

PLATE=2674 MJD=54097 sdR-r1-00042258.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

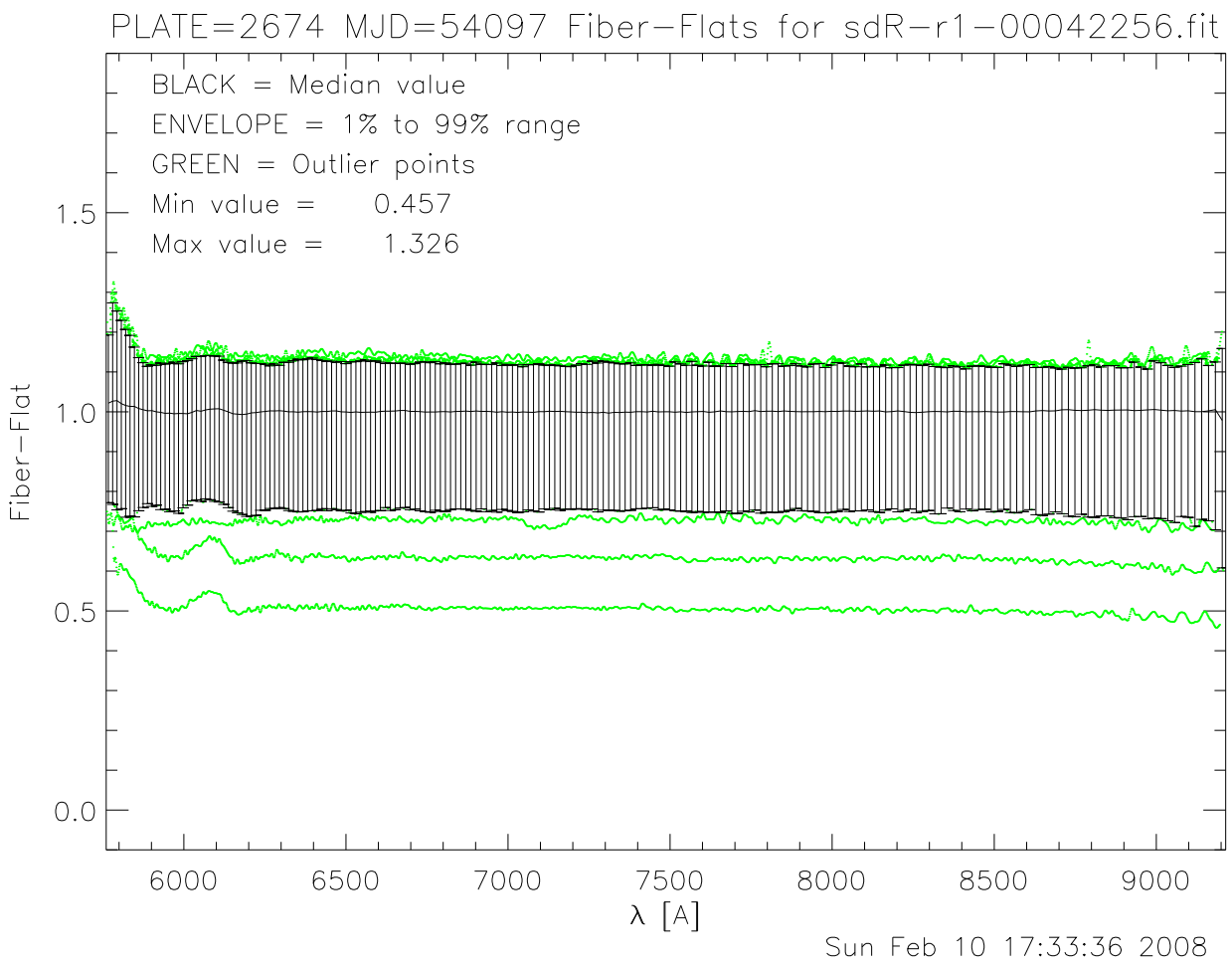

PLATE=2674 MJD=54097 sdR-r1-00042258.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

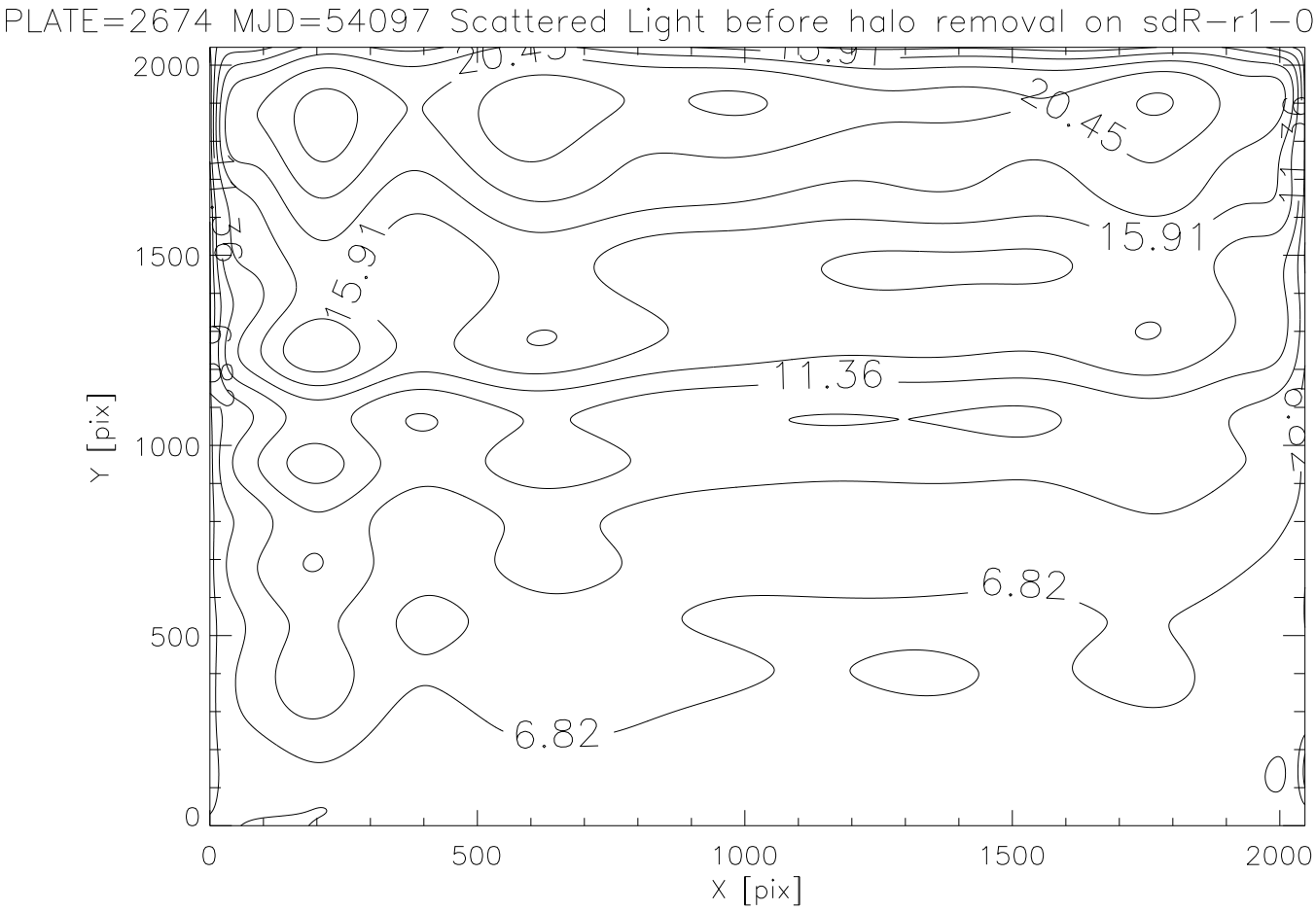

PLATE=2674 MJD=54097 sdR-r1-00042258.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

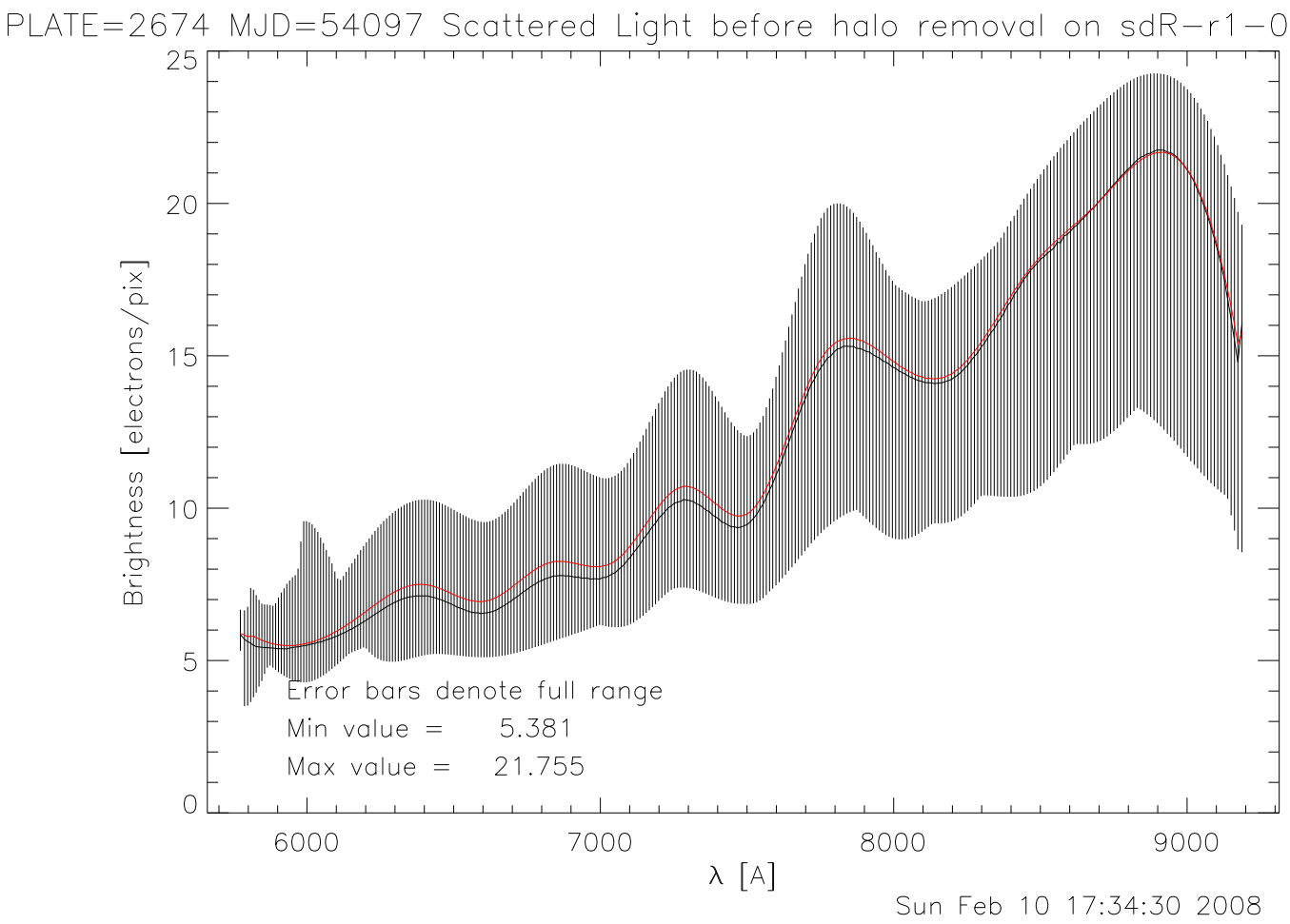

Number of sky fibers = 24
PLATE=2674 MJD=54097 sdR-r1-00042258.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

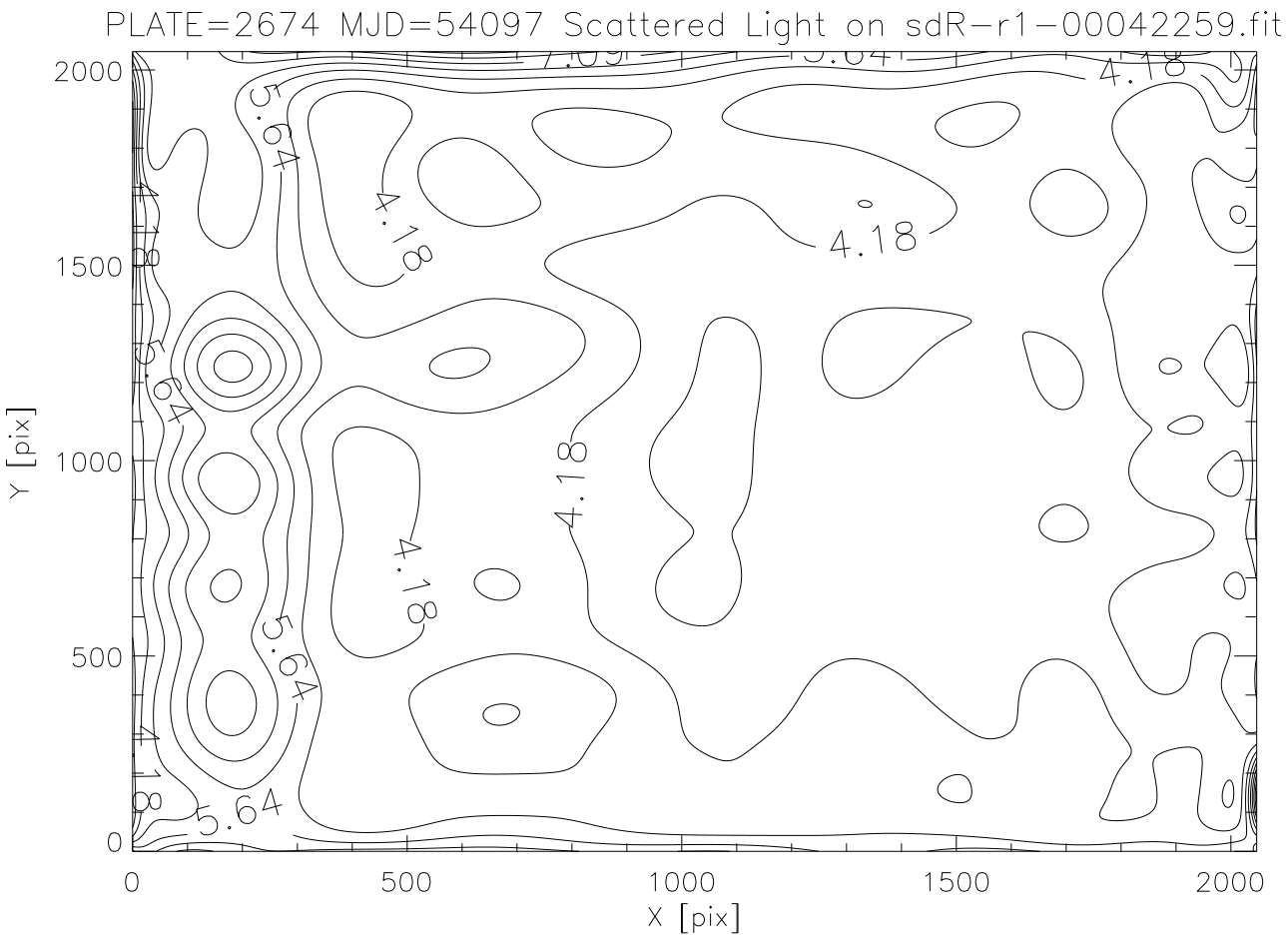

PLATE=2674 MJD=54097 sdR-r1-00042258.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.66 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

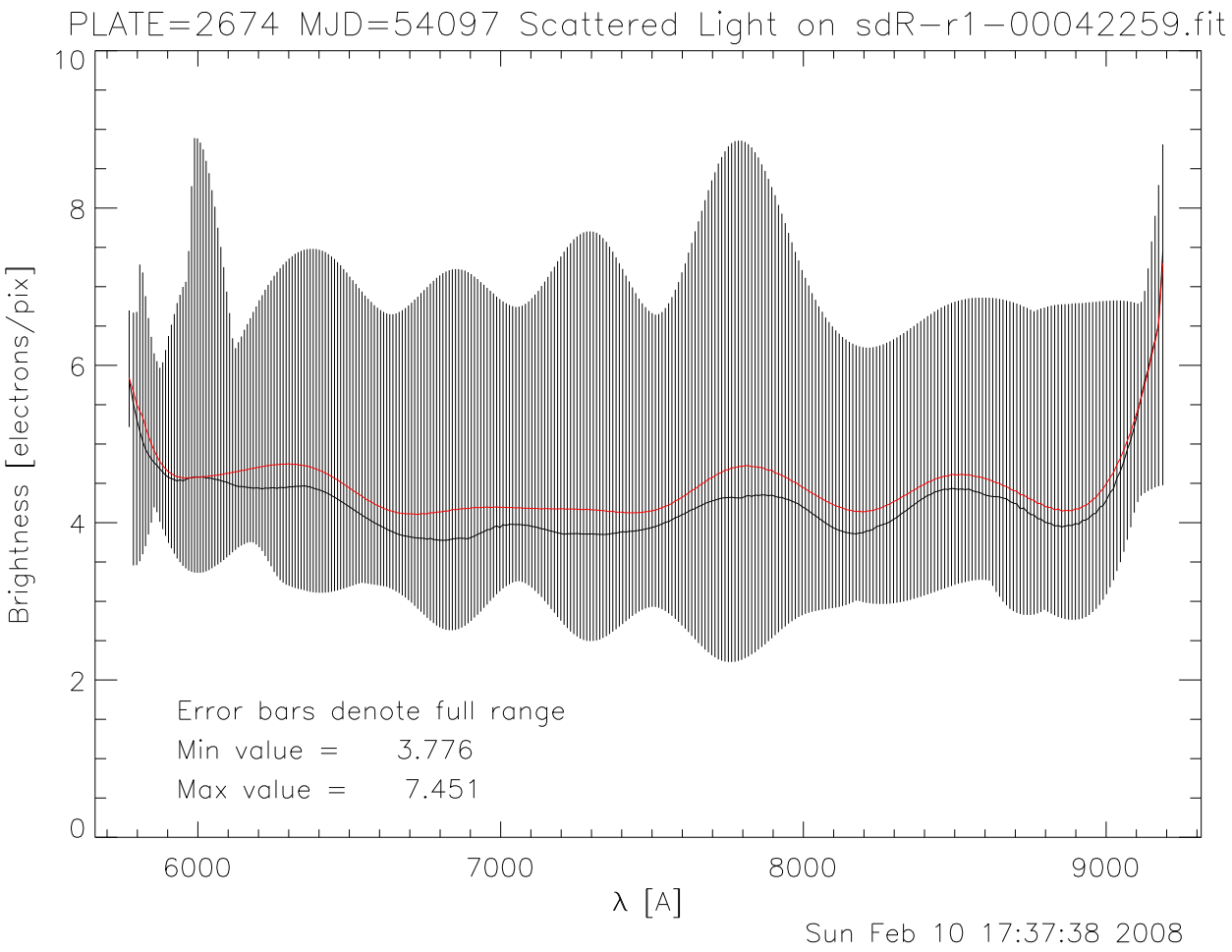

PLATE=2674 MJD=54097 sdR-r1-00042258.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 4.31 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

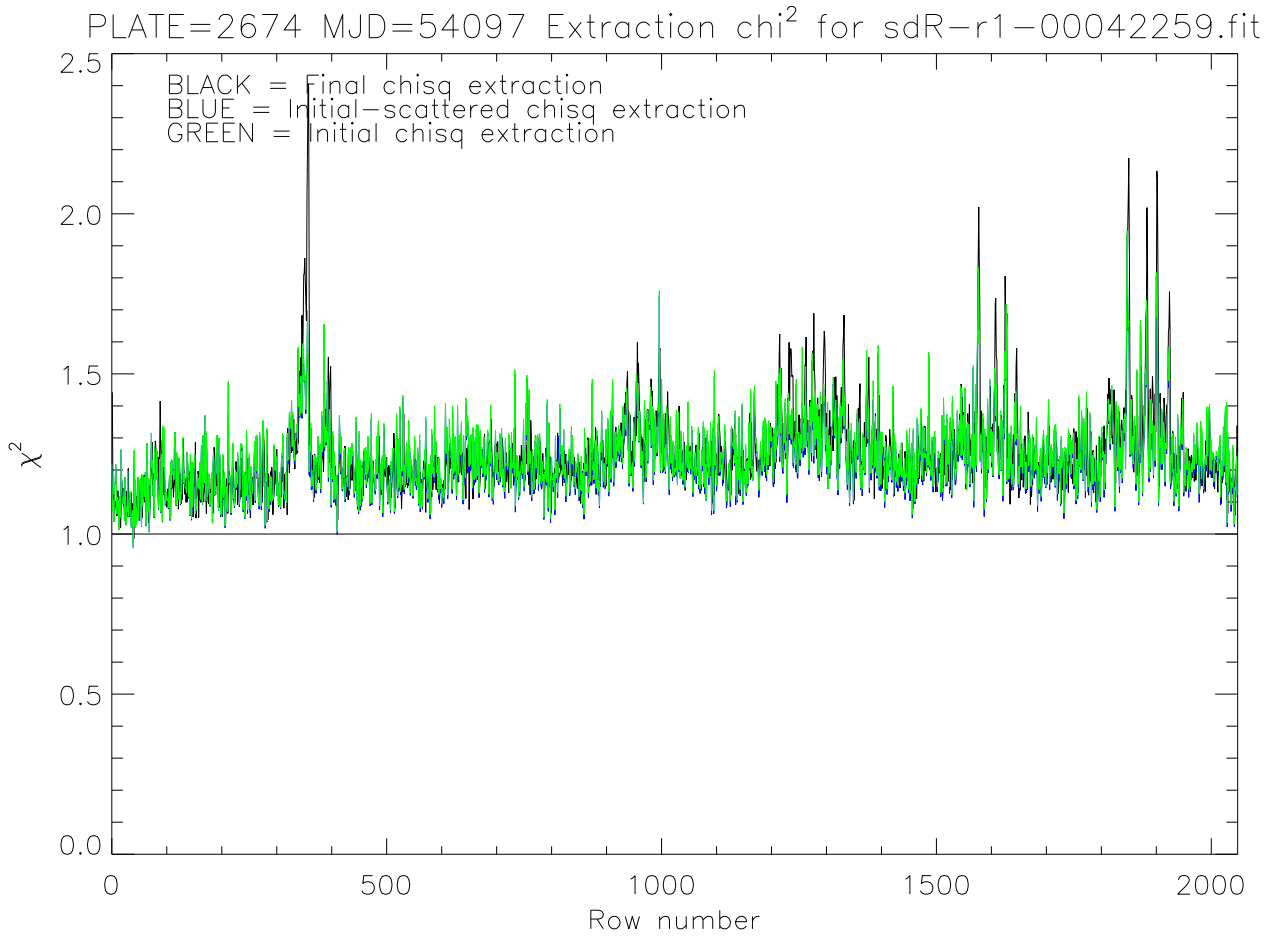

PLATE=2674 MJD=54097 Fiber−Flats for sdR−r1−00042256.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.457
Max value = 1.326
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sun Feb 10 17:33:36 2008

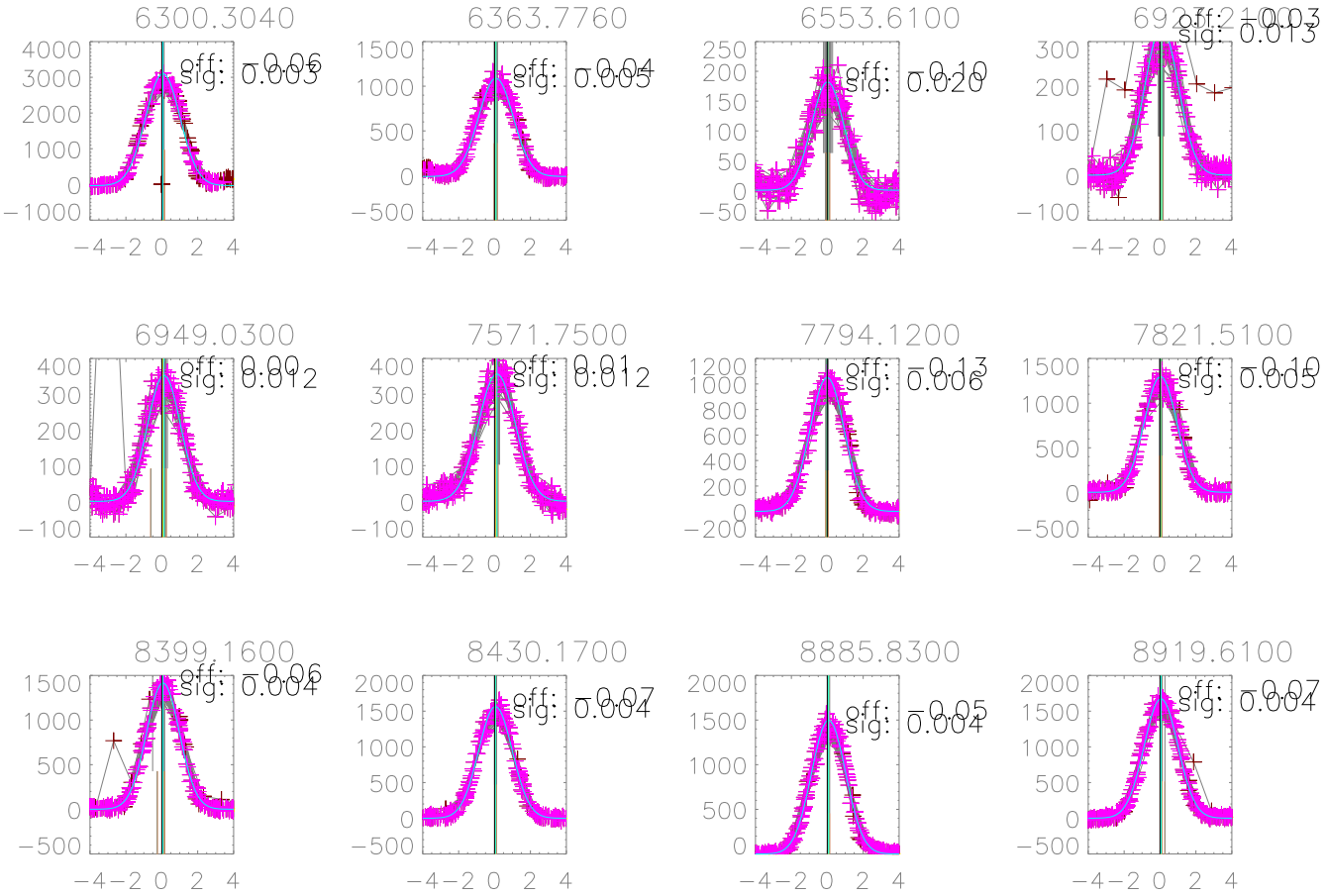

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR-r1-00042259.fi
20.45
15.91
11.36
6.82
Y [pix]
X [pix]
0
500
1000
1500
2000

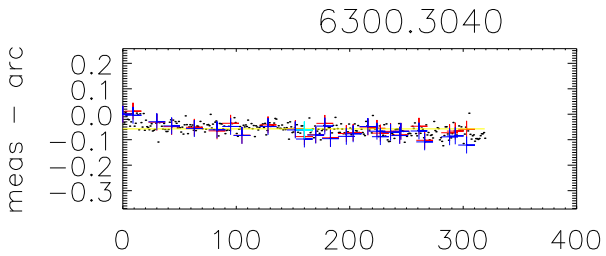

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR-r1-00042259.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.381
Max value = 21.755
Sun Feb 10 17:34:30 2008

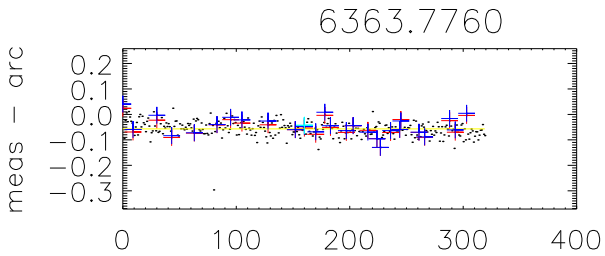

PLATE=2674 MJD=54097 Scattered Light on sdR-r1-00042259.fit
4.18
5.64
4.18
4.18
5.64
4.18
5.64
4.18
5.64
4.18
5.64
4.18
Y [pix]
X [pix]
0
500
1000
1500
2000

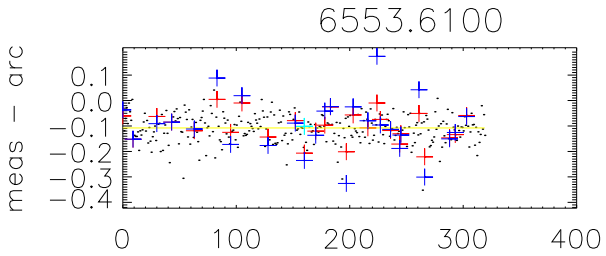

PLATE=2674 MJD=54097 Scattered Light on sdR-r1-00042259.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.776
Max value = 7.451
Sun Feb 10 17:37:38 2008

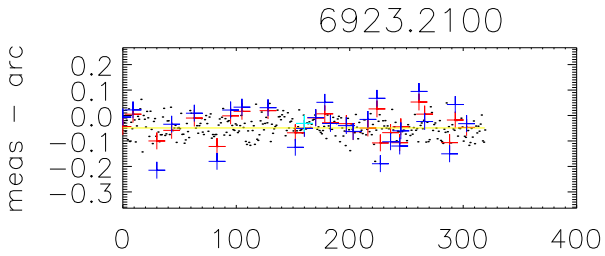

PLATE=2674 MJD=54097 Extraction chi^2 for sdR−r1−00042259.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

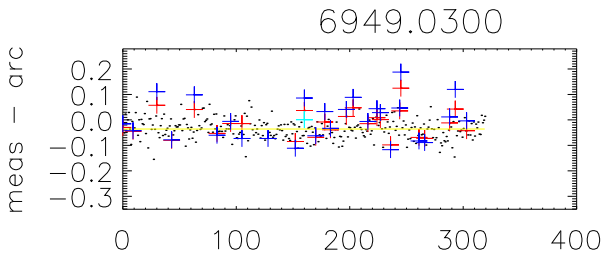

6300.3040
off: −0.06
sig: 0.003
6363.7760
off: −0.04
sig: 0.005
6553.6100
off: −0.10
sig: 0.020
6927.2100
off: −0.03
sig: 0.013
6949.0300
off: 0.00
sig: 0.012
7571.7500
off: 0.01
sig: 0.012
7794.1200
off: −0.13
sig: 0.006
7821.5100
off: −0.10
sig: 0.005
8399.1600
off: −0.06
sig: 0.004
8430.1700
off: −0.07
sig: 0.004
8885.8300
off: −0.05
sig: 0.004
8919.6100
off: −0.07
sig: 0.004

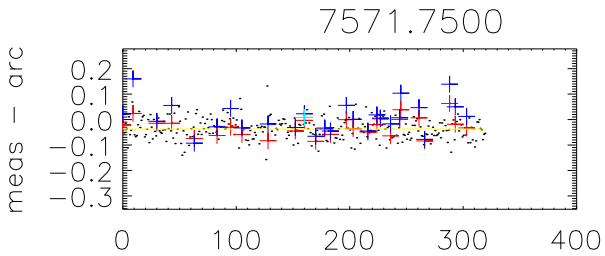

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

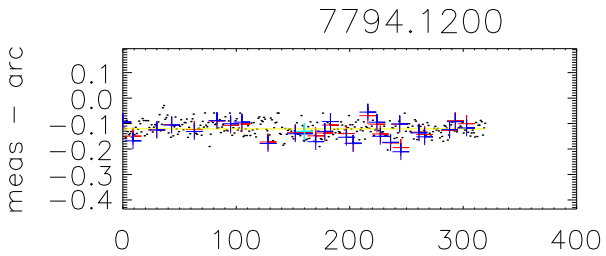

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

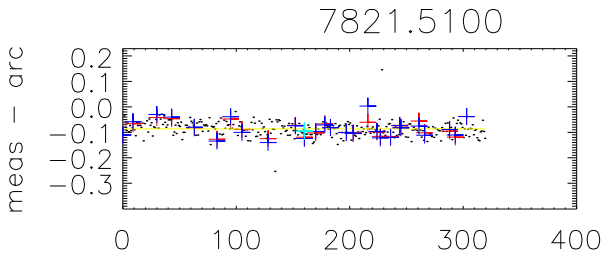

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

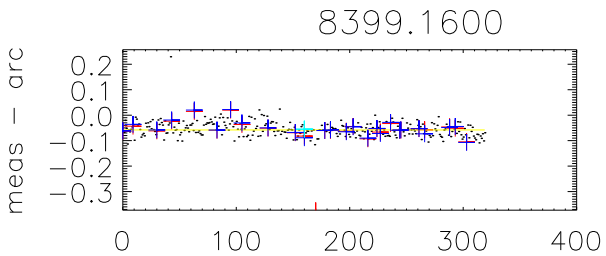

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

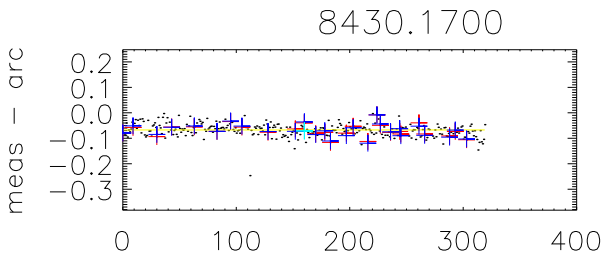

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

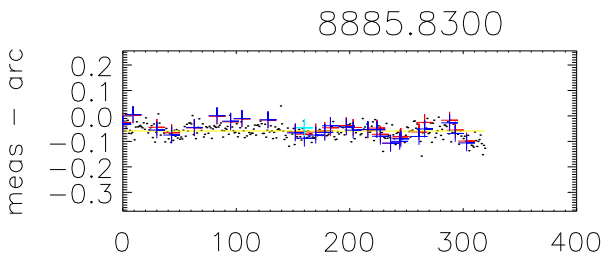

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

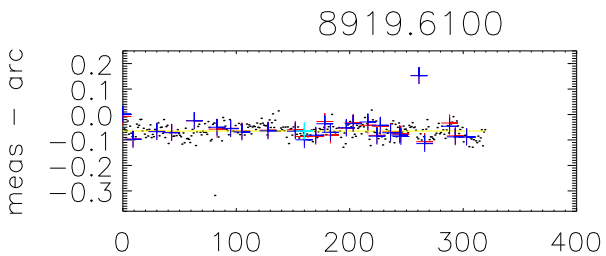

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

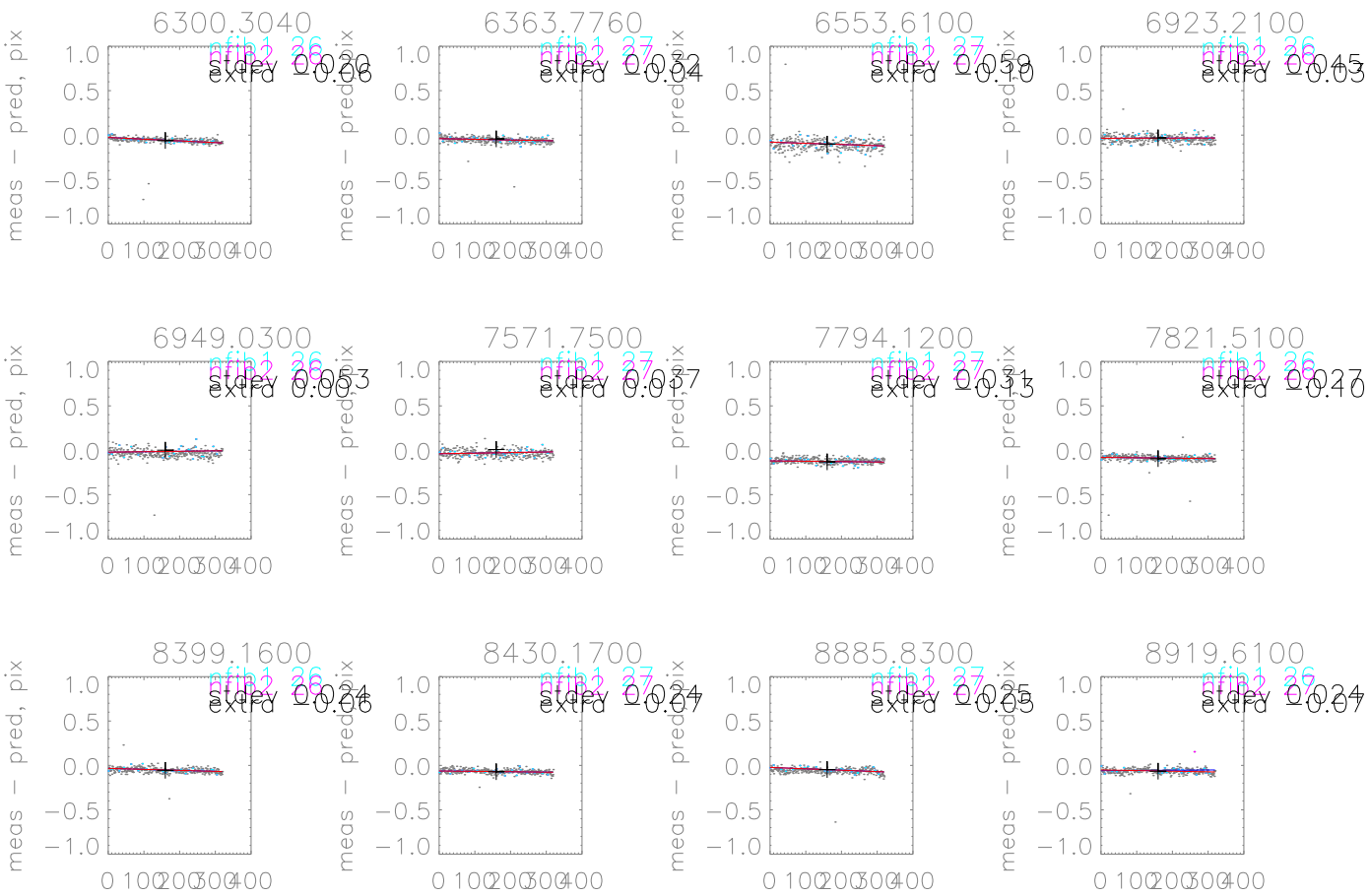

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

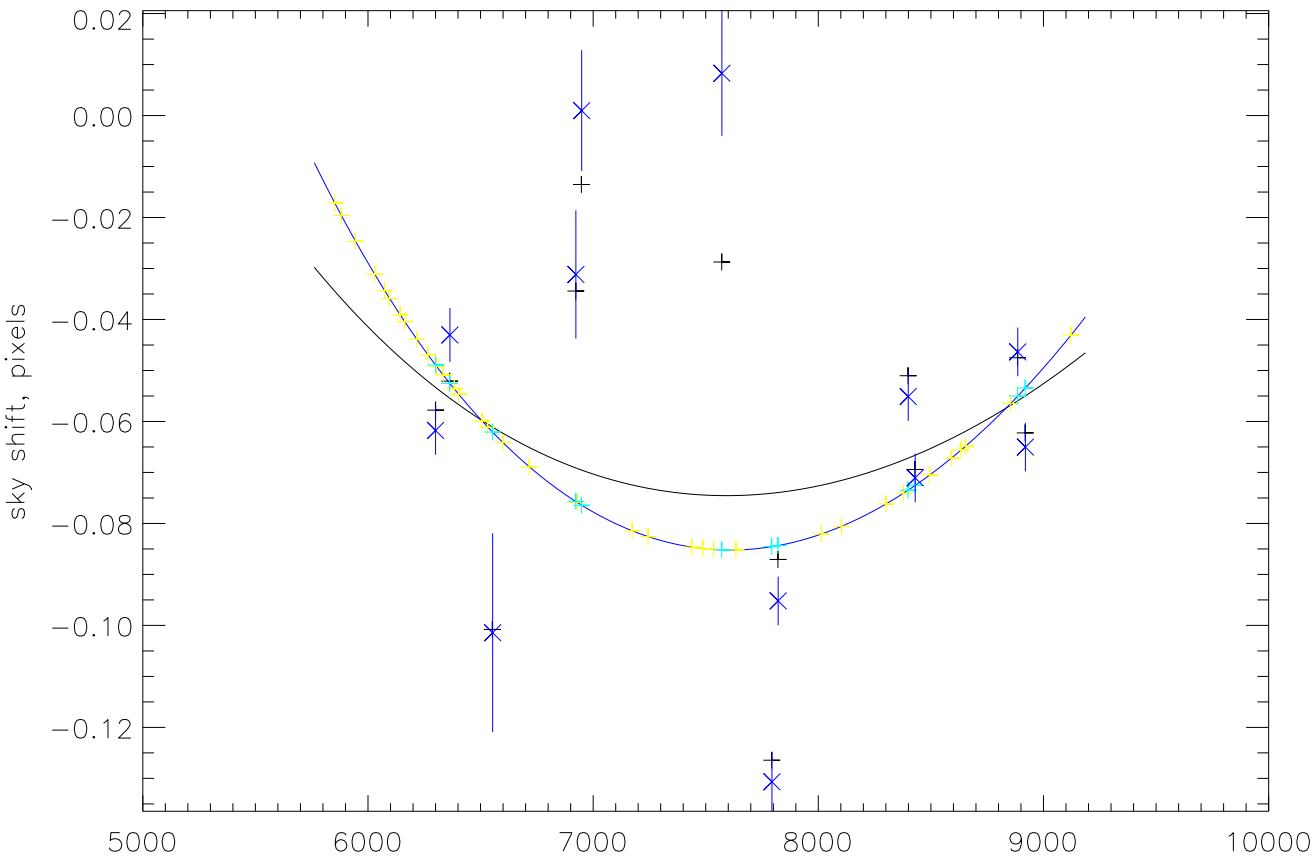

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

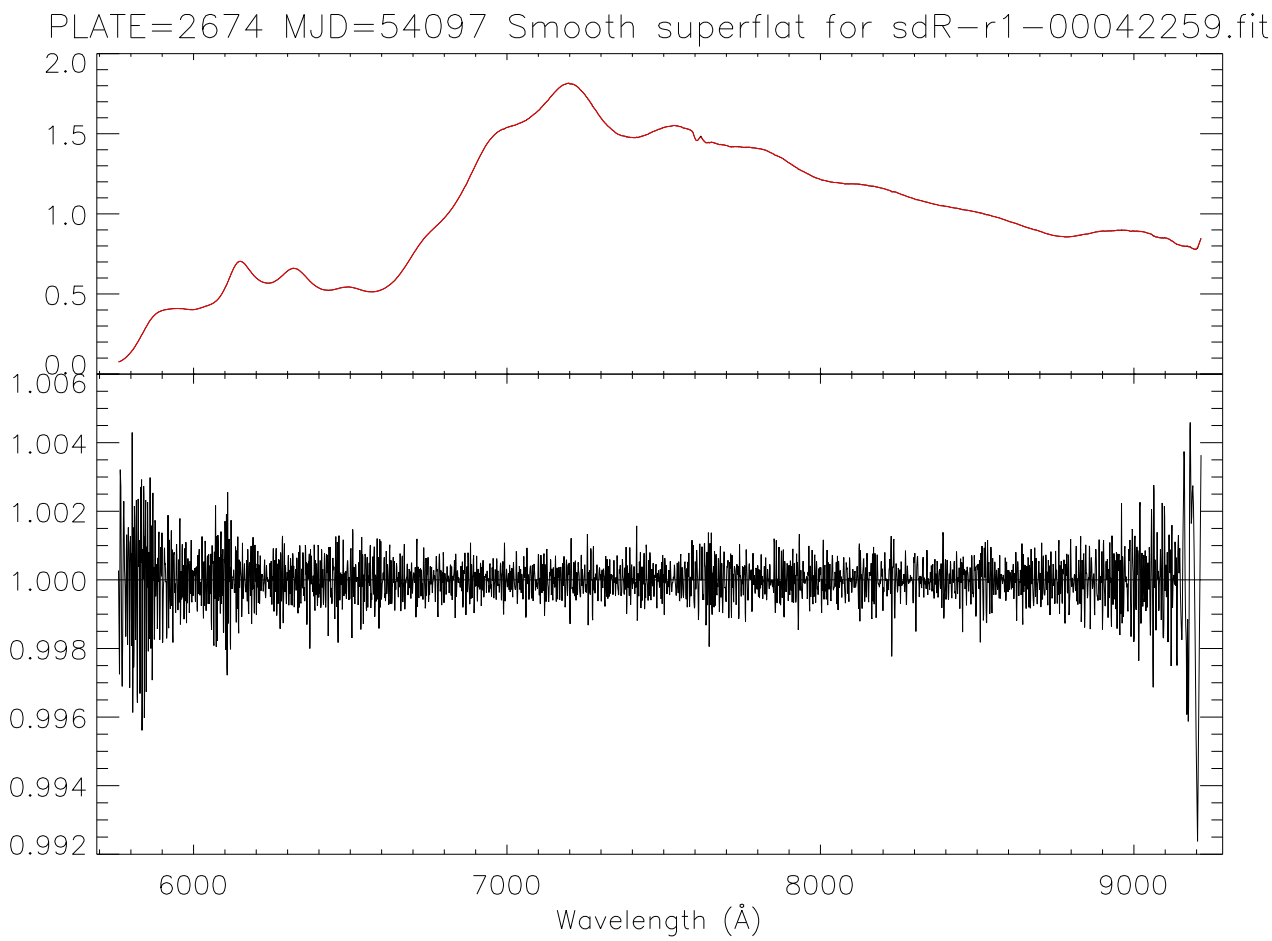

8885.8300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

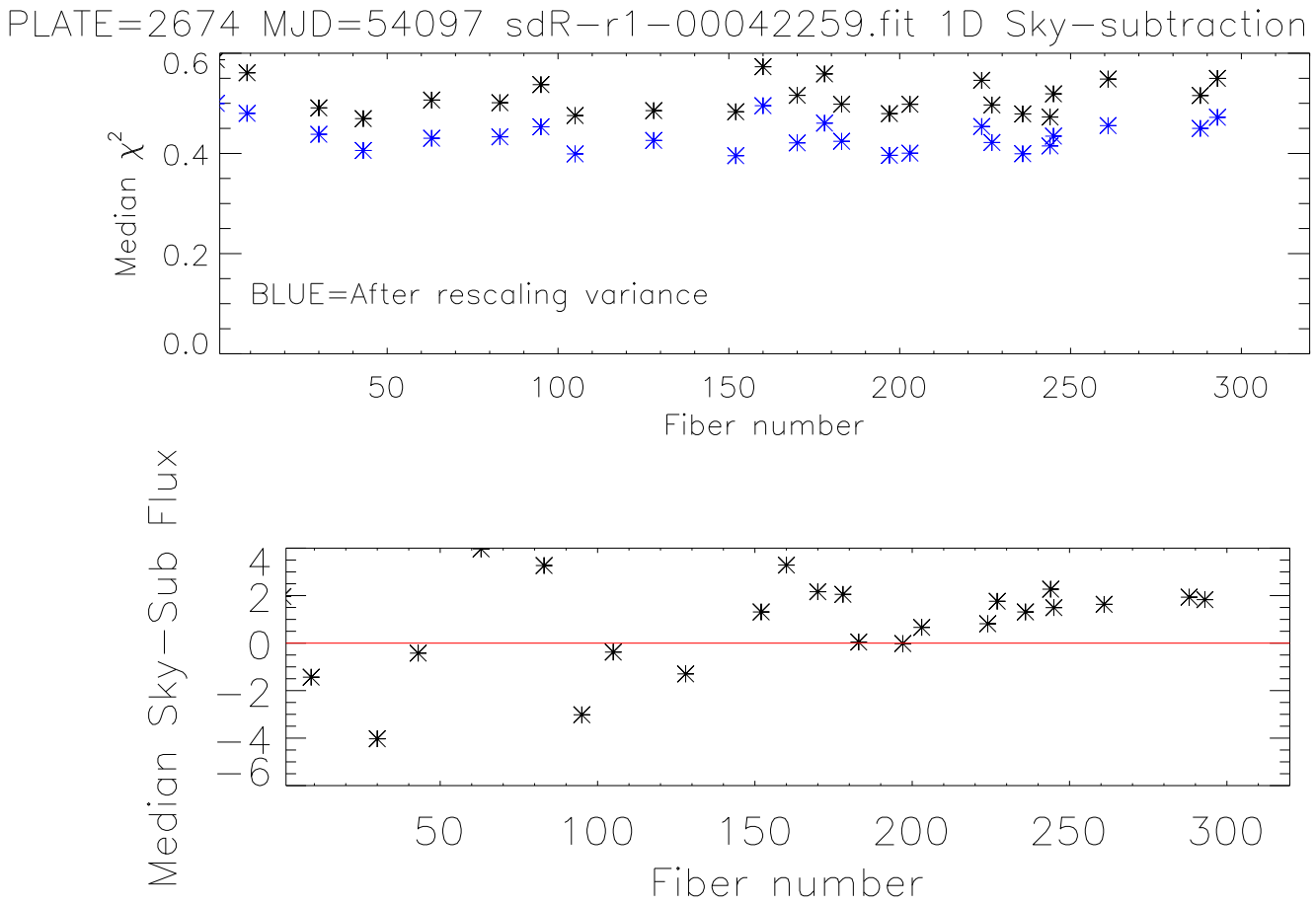

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

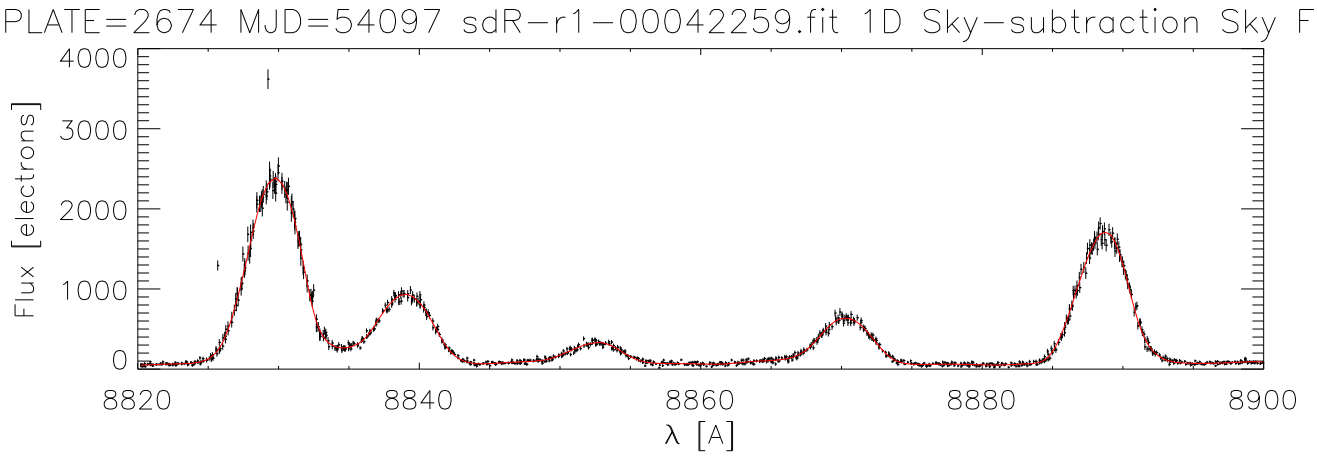

6300.3040
6363.7760
6553.6100
6923.2100
6949.0300
7571.7500
7794.1200
7821.5100
8399.1600
8430.1700
8885.8300
8919.6100
meas − pred, pix
mfib1 26
mfib2 26
mfib1 27
mfib2 27
stdev 0.030
extra −0.06
stdev 0.032
extra −0.04
stdev 0.059
extra −0.10
stdev 0.045
extra −0.03
stdev 0.053
extra 0.00
stdev 0.037
extra 0.01
stdev 0.031
extra −0.13
stdev 0.027
extra −0.40
stdev 0.024
extra −0.06
stdev 0.024
extra −0.07
stdev 0.025
extra −0.05
stdev 0.024
extra −0.07

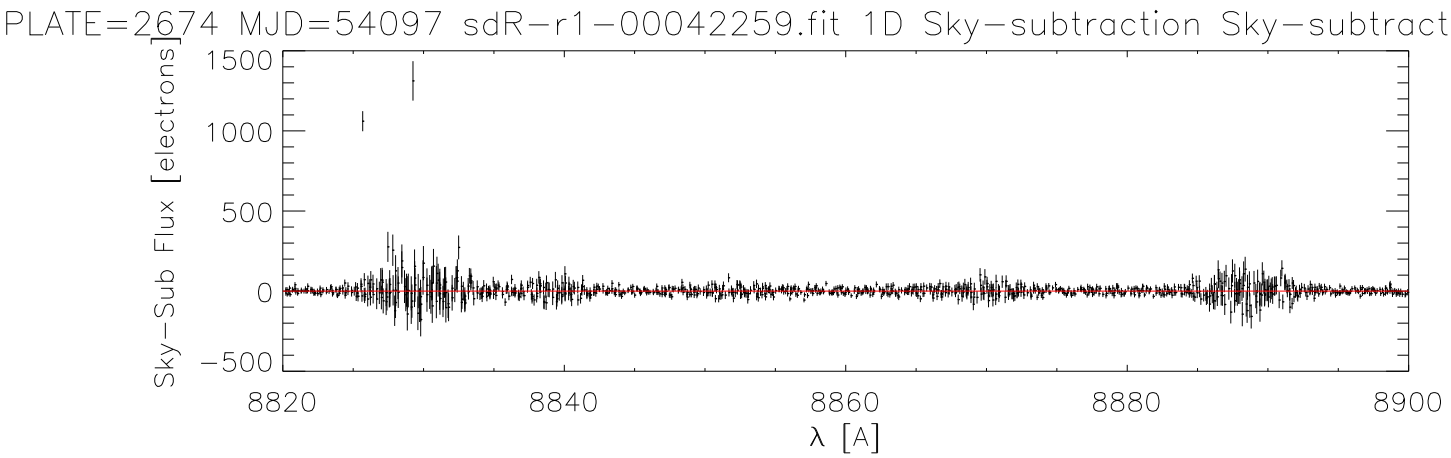

0.02
0.00
−0.02
−0.04
−0.06
−0.08
−0.10
−0.12
sky shift, pixels
5000
6000
7000
8000
9000
10000

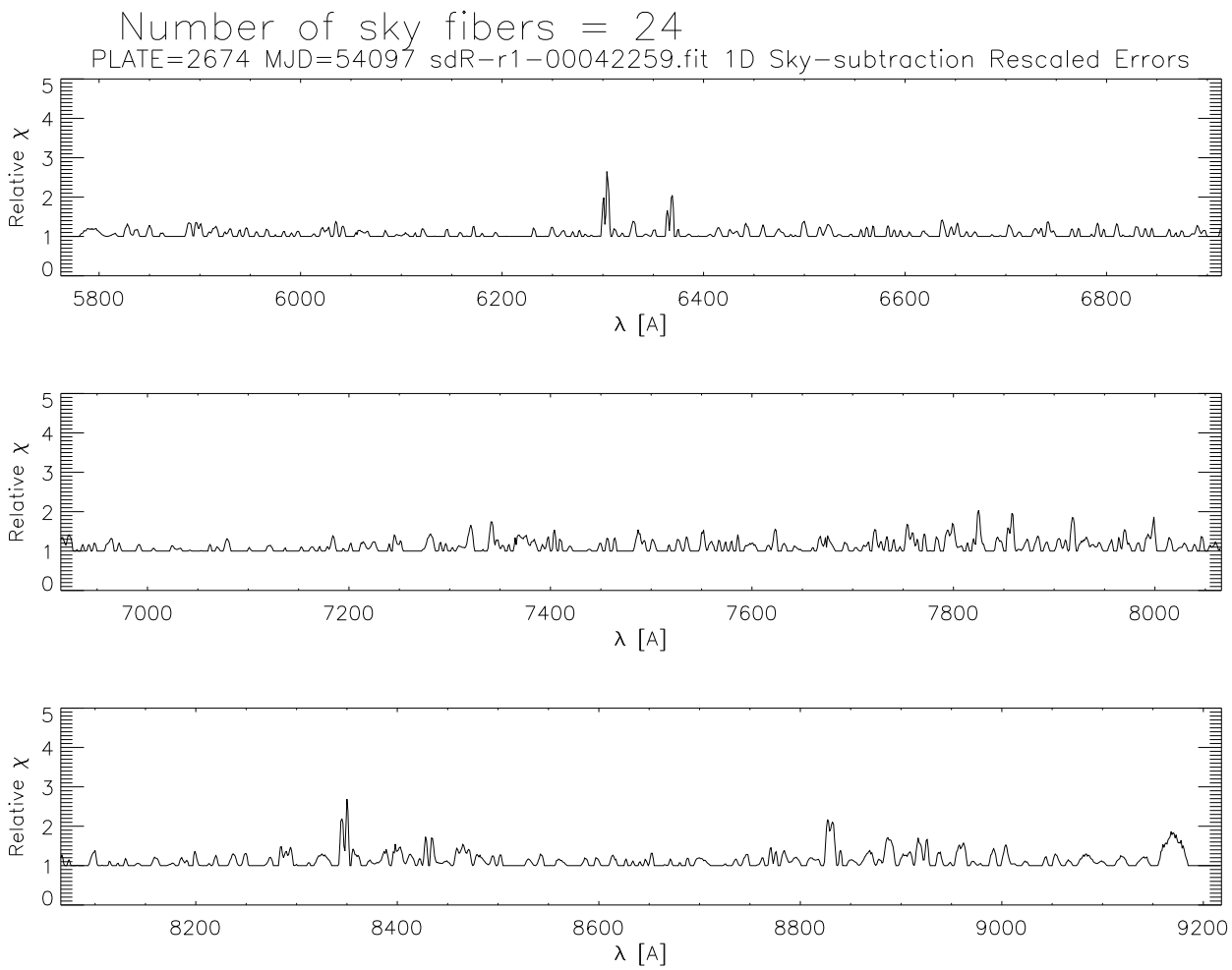
es= 0.0000

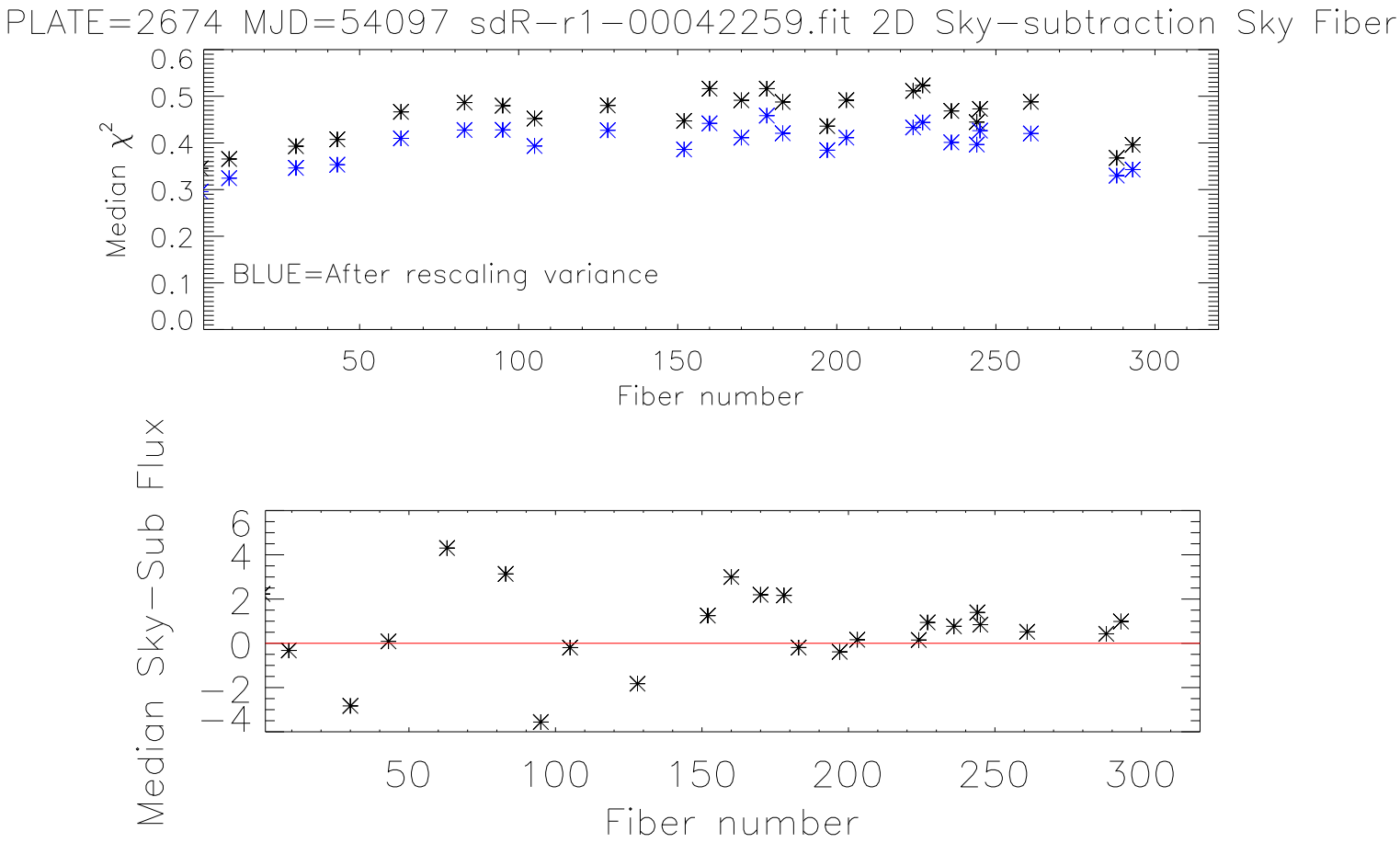

PLATE=2674 MJD=54097 Smooth superflat for sdR-r1-00042259.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
6000
7000
8000
9000
Wavelength (Å)

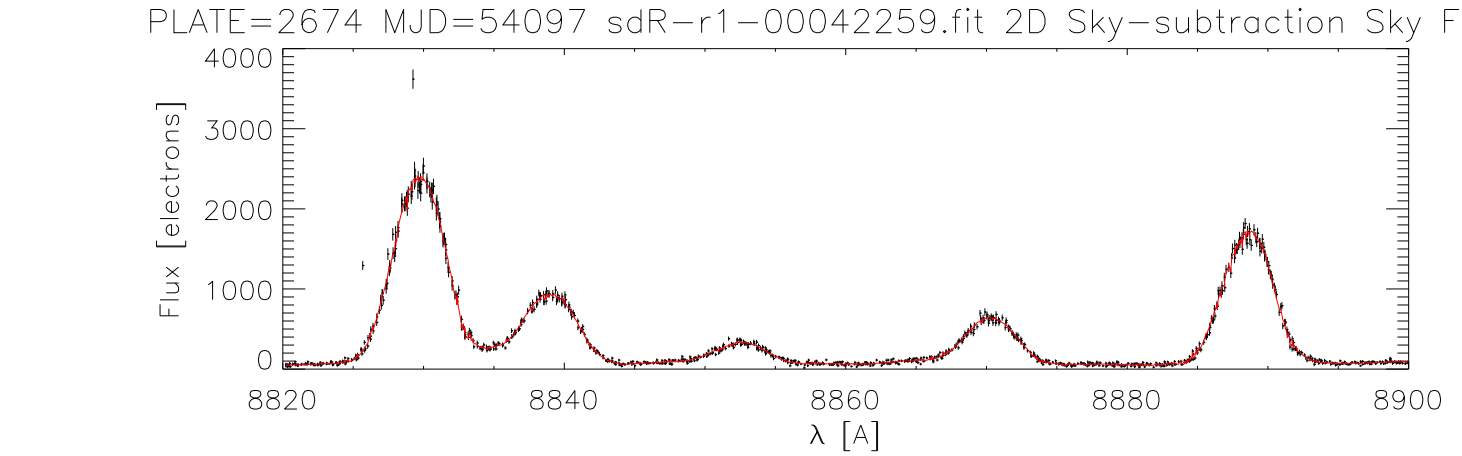

PLATE=2674 MJD=54097 sdR-r1-00042259.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
50
100
150
200
250
300
Fiber number

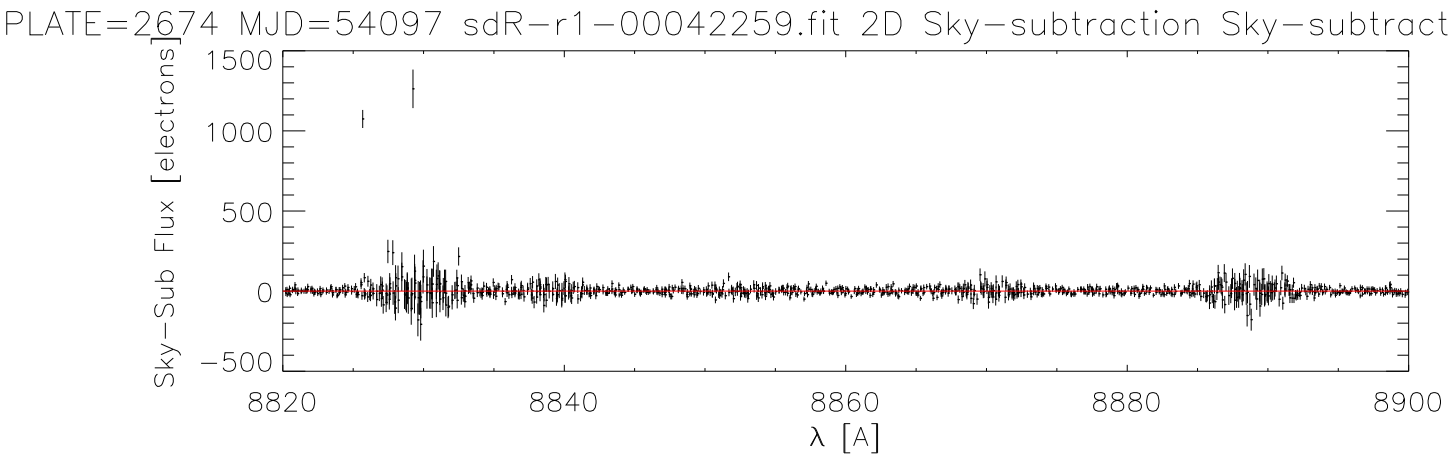

PLATE=2674 MJD=54097 sdR-r1-00042259.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

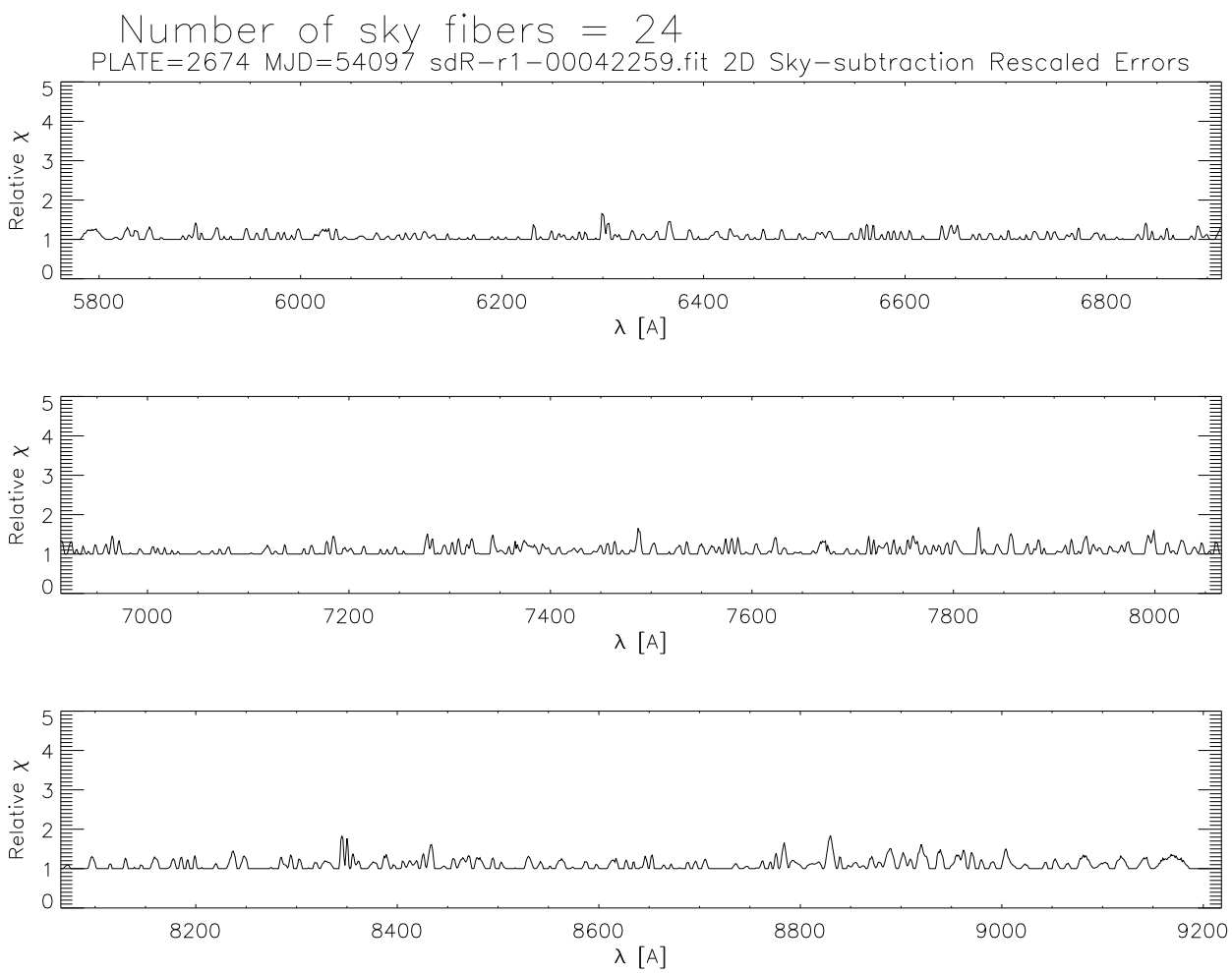

PLATE=2674 MJD=54097 sdR-r1-00042259.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

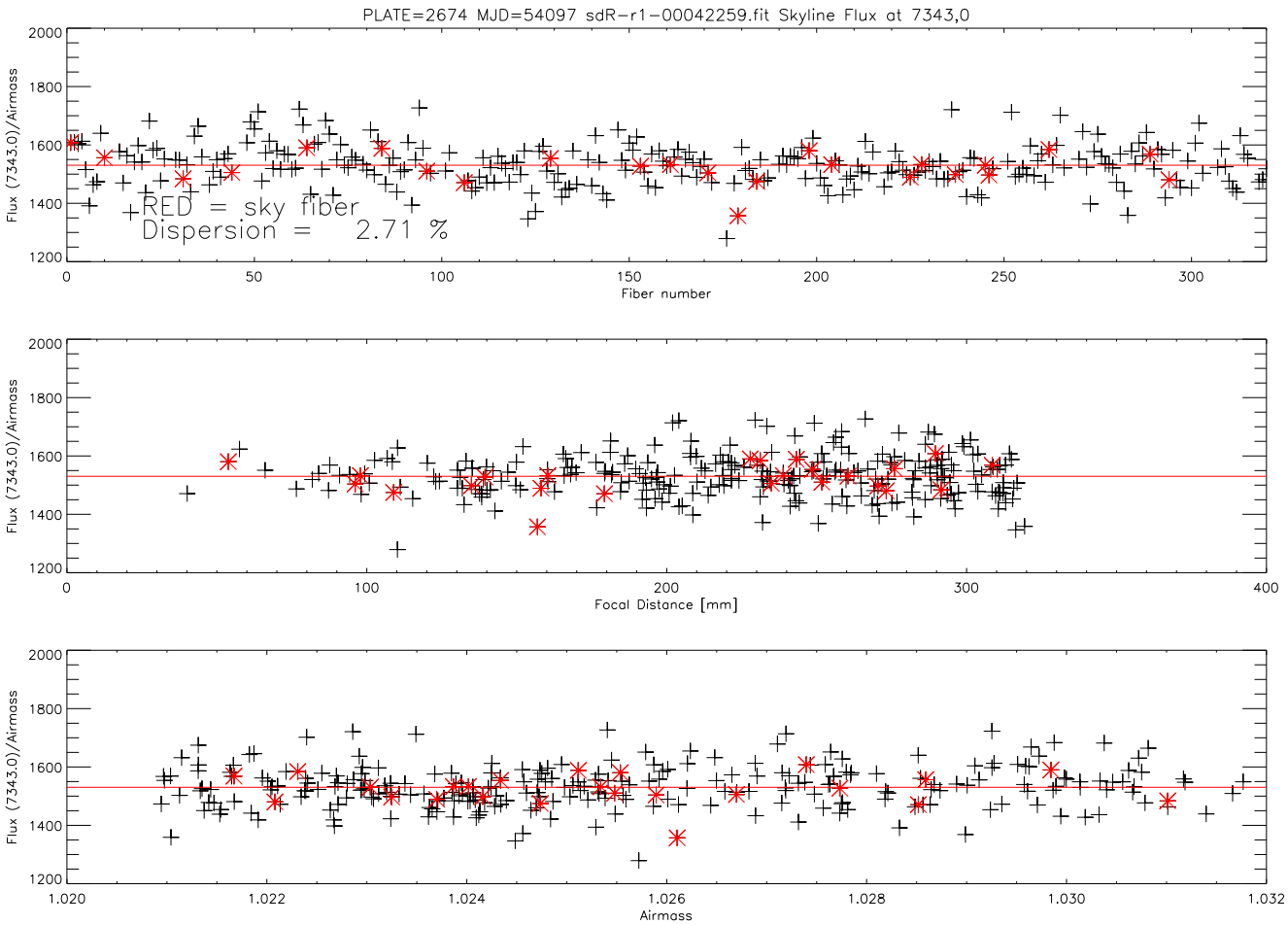

Number of sky fibers = 24
PLATE=2674 MJD=54097 sdR-r1-00042259.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

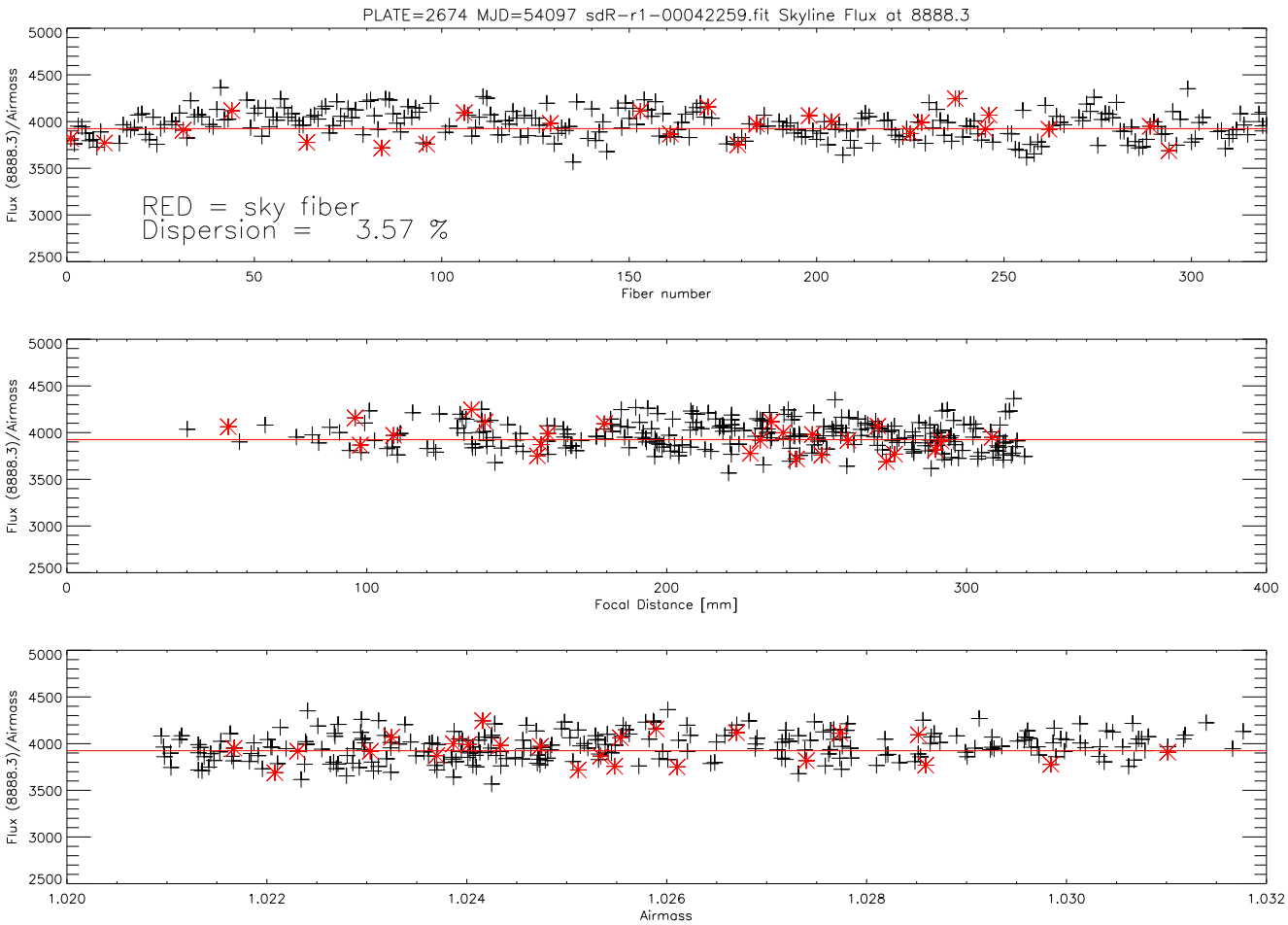

PLATE=2674 MJD=54097 sdR-r1-00042259.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

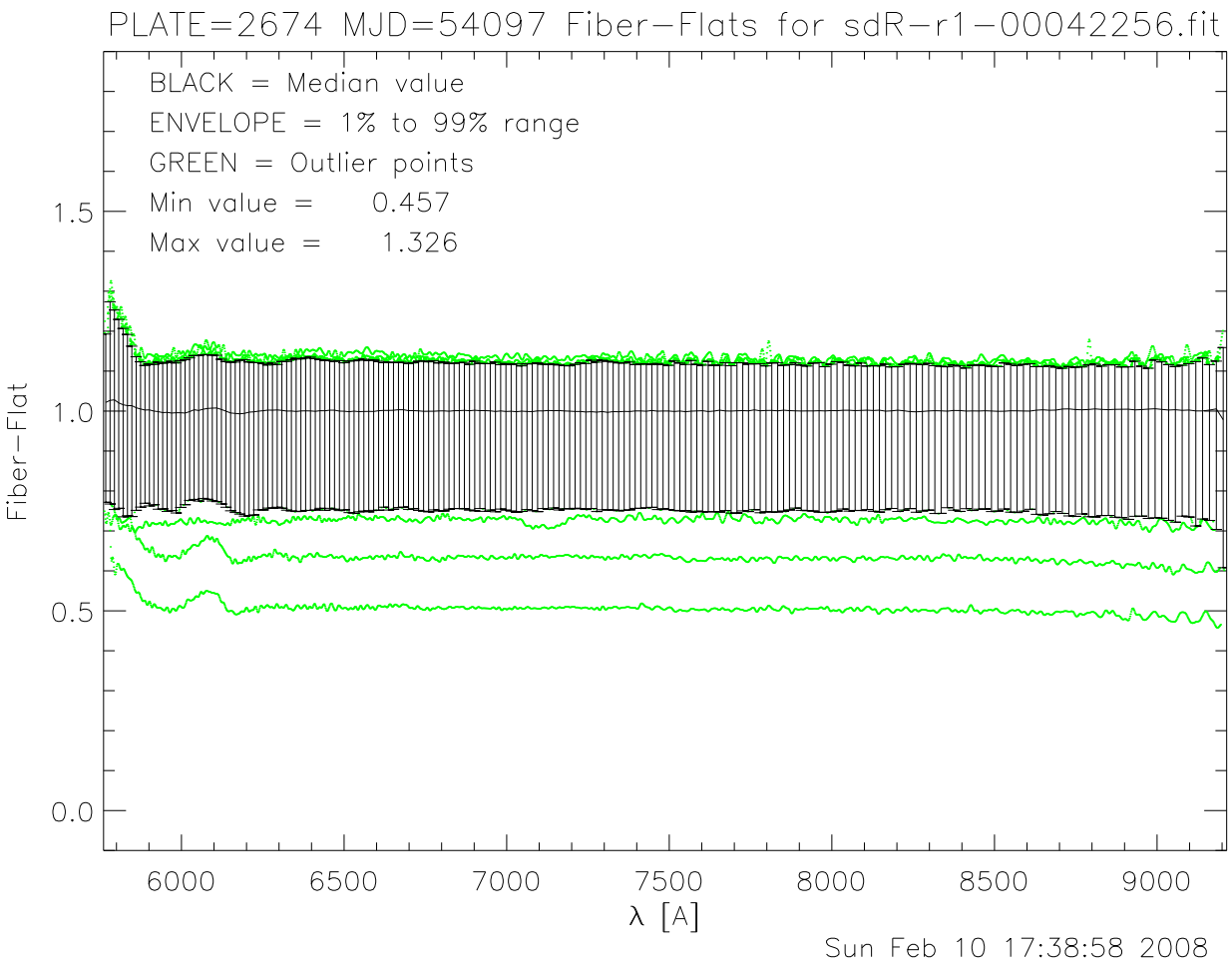

PLATE=2674 MJD=54097 sdR-r1-00042259.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

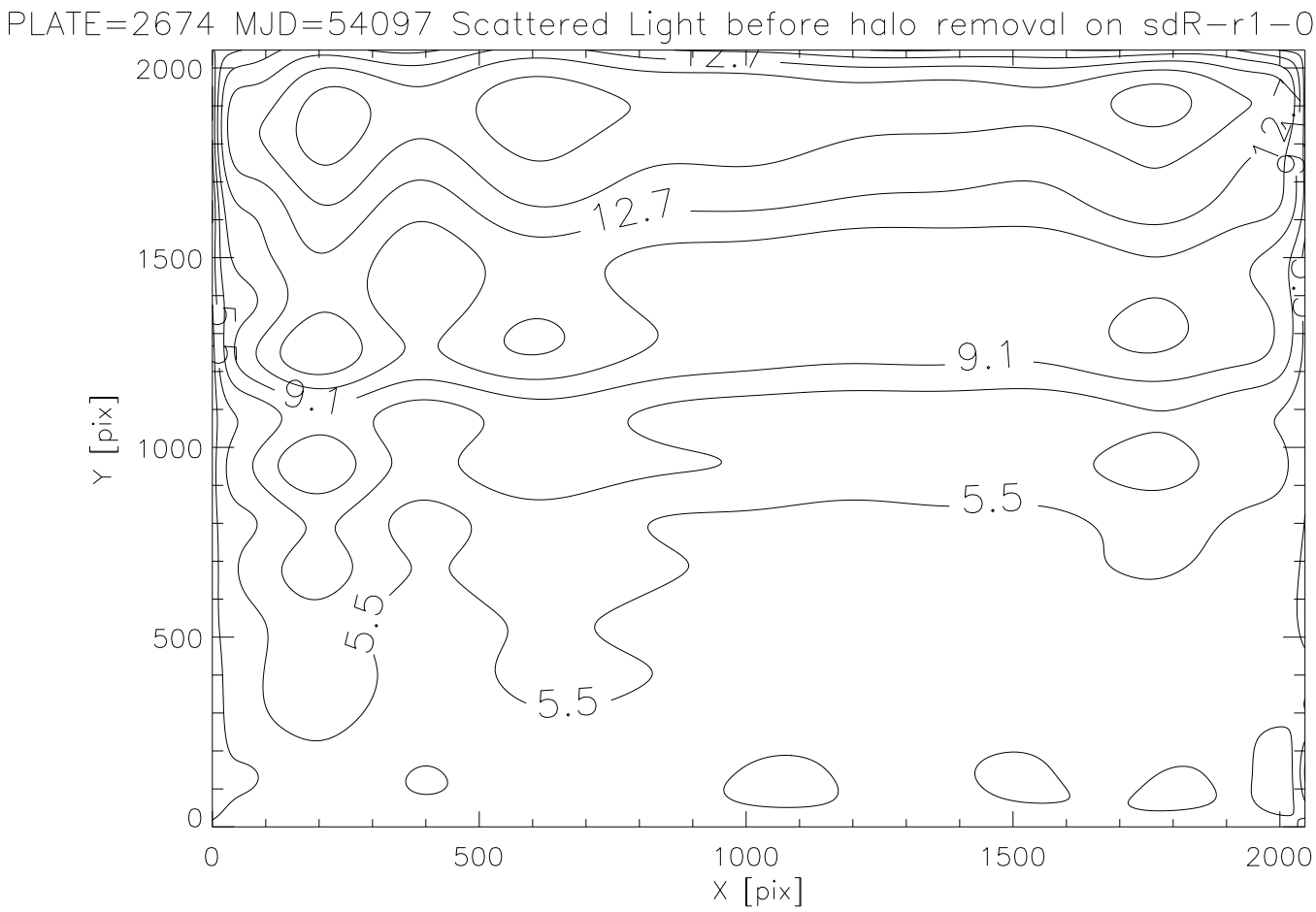

PLATE=2674 MJD=54097 sdR-r1-00042259.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

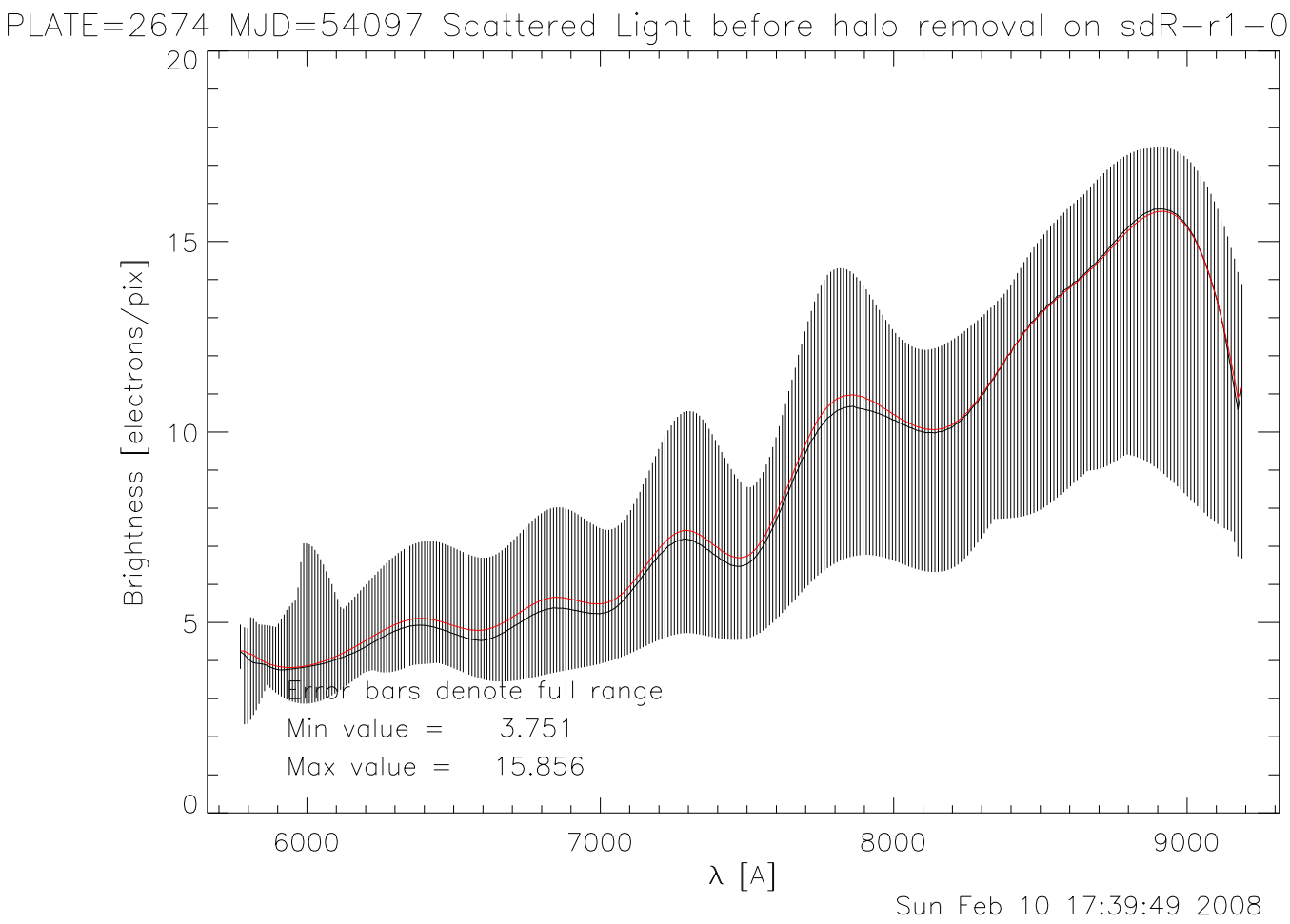

Number of sky fibers = 24
PLATE=2674 MJD=54097 sdR-r1-00042259.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

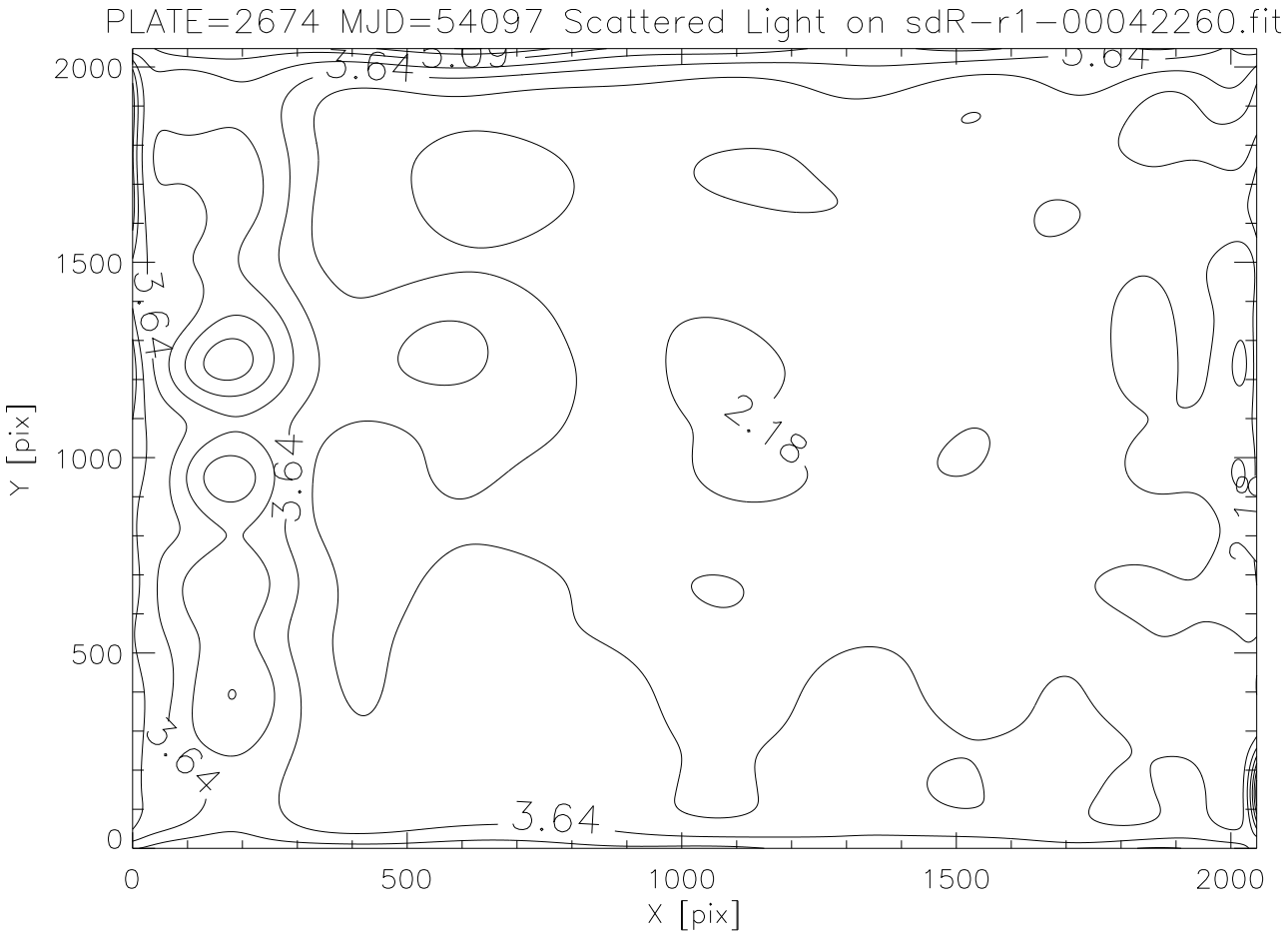

PLATE=2674 MJD=54097 sdR-r1-00042259.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.71 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

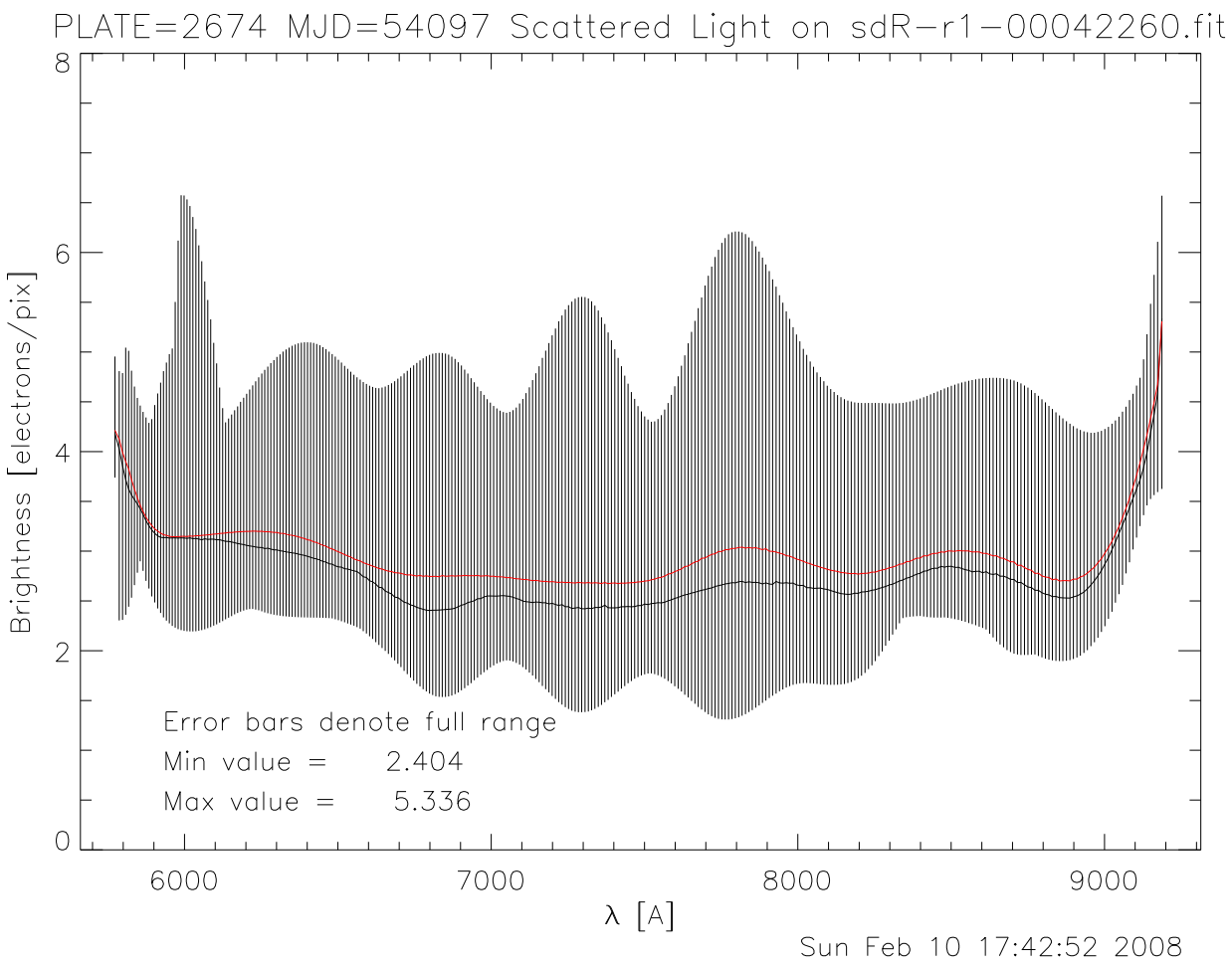

PLATE=2674 MJD=54097 sdR-r1-00042259.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.57 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

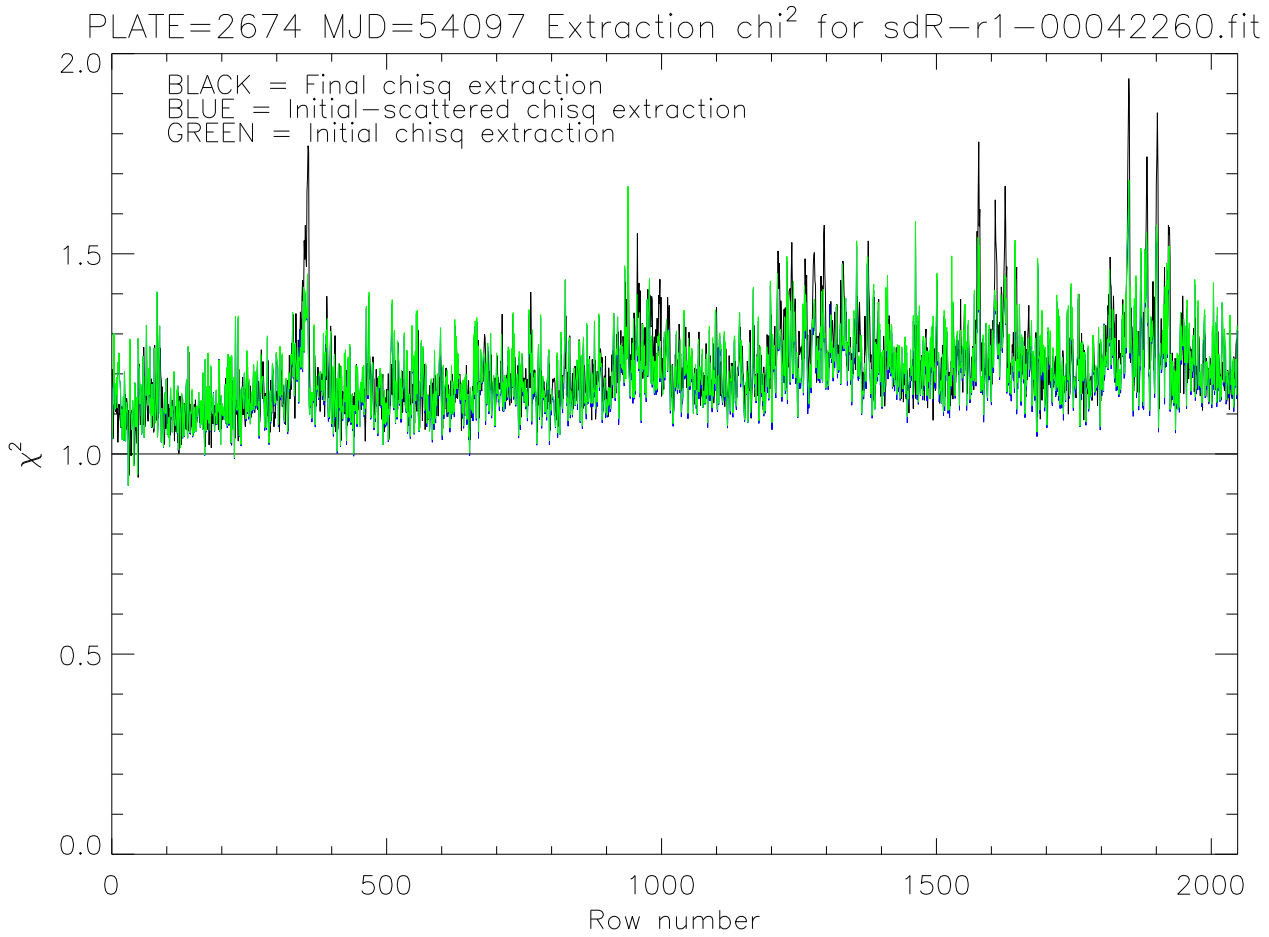

PLATE=2674 MJD=54097 Fiber−Flats for sdR−r1−00042256.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.457
Max value = 1.326
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sun Feb 10 17:38:58 2008

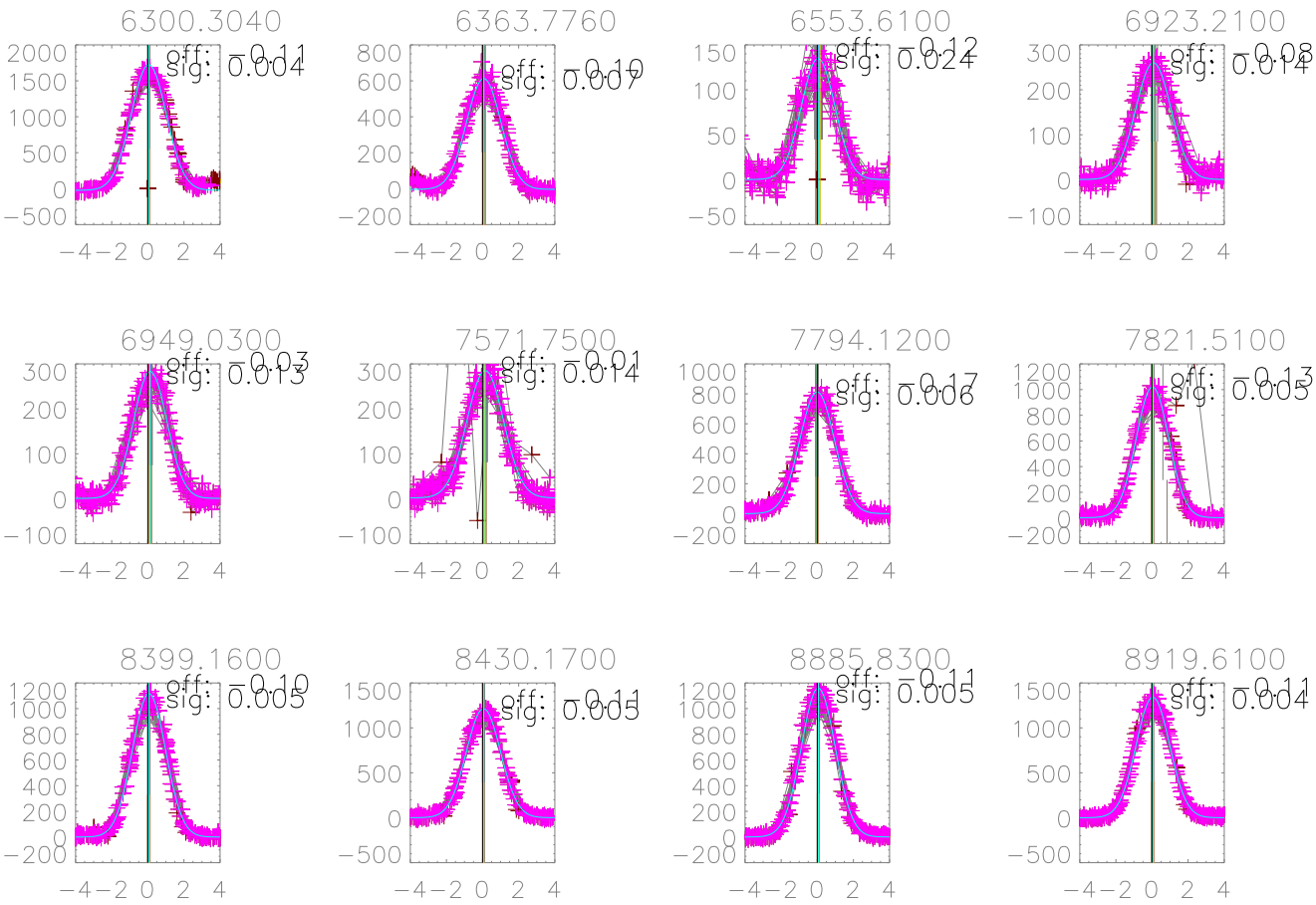

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR-r1-00042260.fi
12.7
12.7
12.7
9.1
9.1
5.5
5.5
5.5
Y [pix]
X [pix]
0
500
1000
1500
2000

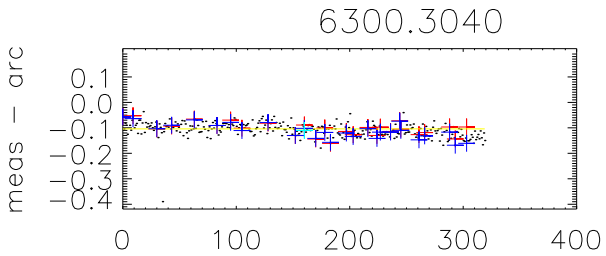

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR-r1-00042260.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.751
Max value = 15.856
Sun Feb 10 17:39:49 2008

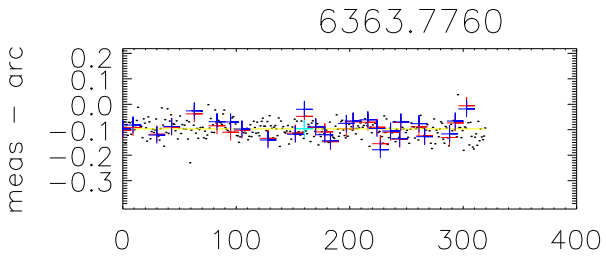

PLATE=2674 MJD=54097 Scattered Light on sdR-r1-00042260.fit
3.64
3.64
3.64
3.64
3.64
2.18
2.18
Y [pix]
X [pix]
0
500
1000
1500
2000

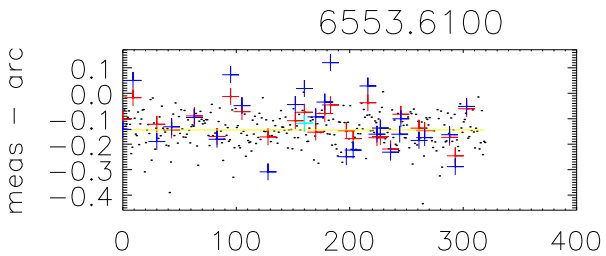

PLATE=2674 MJD=54097 Scattered Light on sdR-r1-00042260.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 2.404
Max value = 5.336
Sun Feb 10 17:42:52 2008

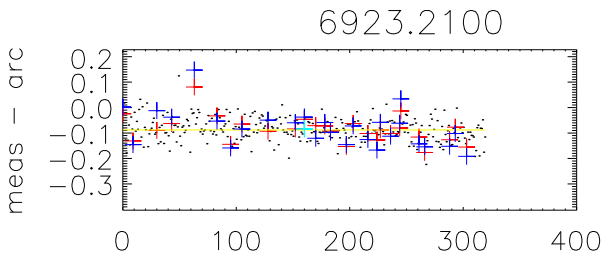

PLATE=2674 MJD=54097 Extraction chi^2 for sdR−r1−00042260.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

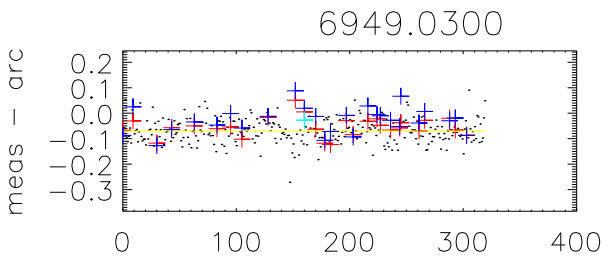

6300.3040
off: −0.11
sig: 0.004
6363.7760
off: −0.10
sig: 0.007
6553.6100
off: −0.12
sig: 0.024
6923.2100
off: −0.08
sig: 0.014
6949.0300
off: −0.03
sig: 0.013
7571.7500
off: −0.01
sig: 0.014
7794.1200
off: −0.17
sig: 0.006
7821.5100
off: −0.13
sig: 0.005
8399.1600
off: −0.10
sig: 0.005
8430.1700
off: −0.11
sig: 0.005
8885.8300
off: −0.11
sig: 0.005
8919.6100
off: −0.11
sig: 0.004

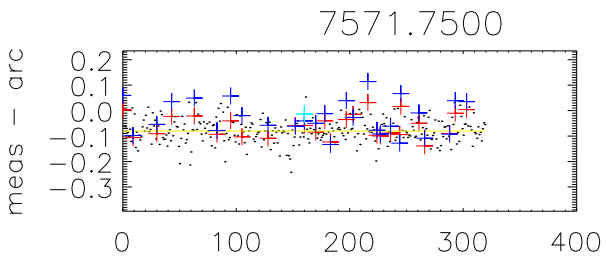

6300.3040
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

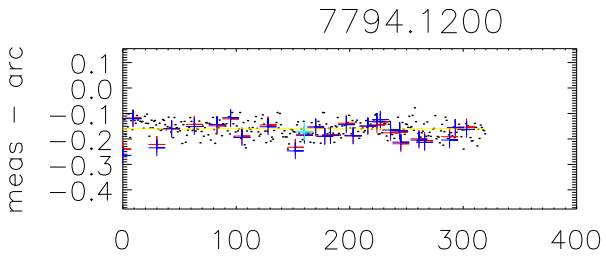

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

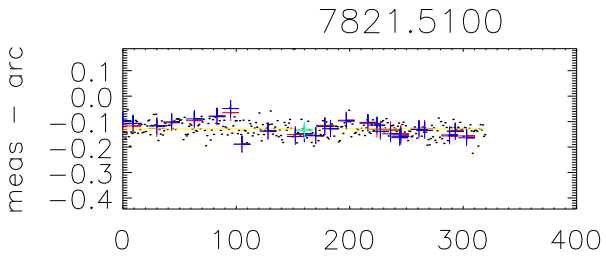

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

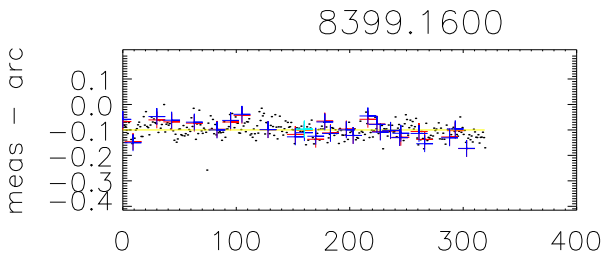

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

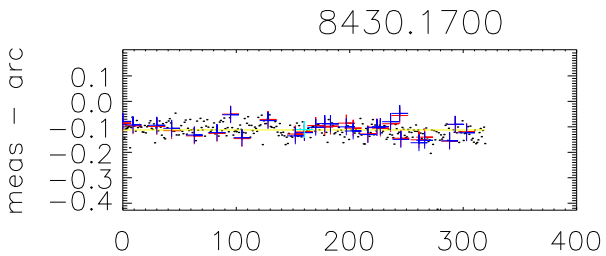

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

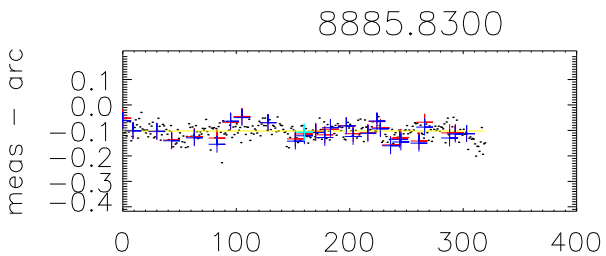

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

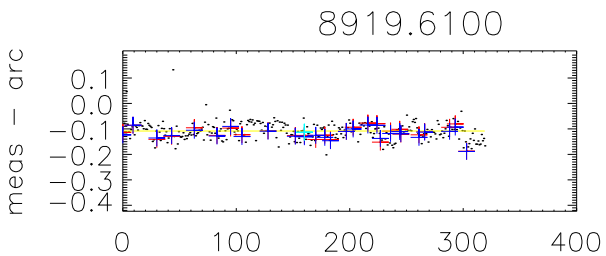

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

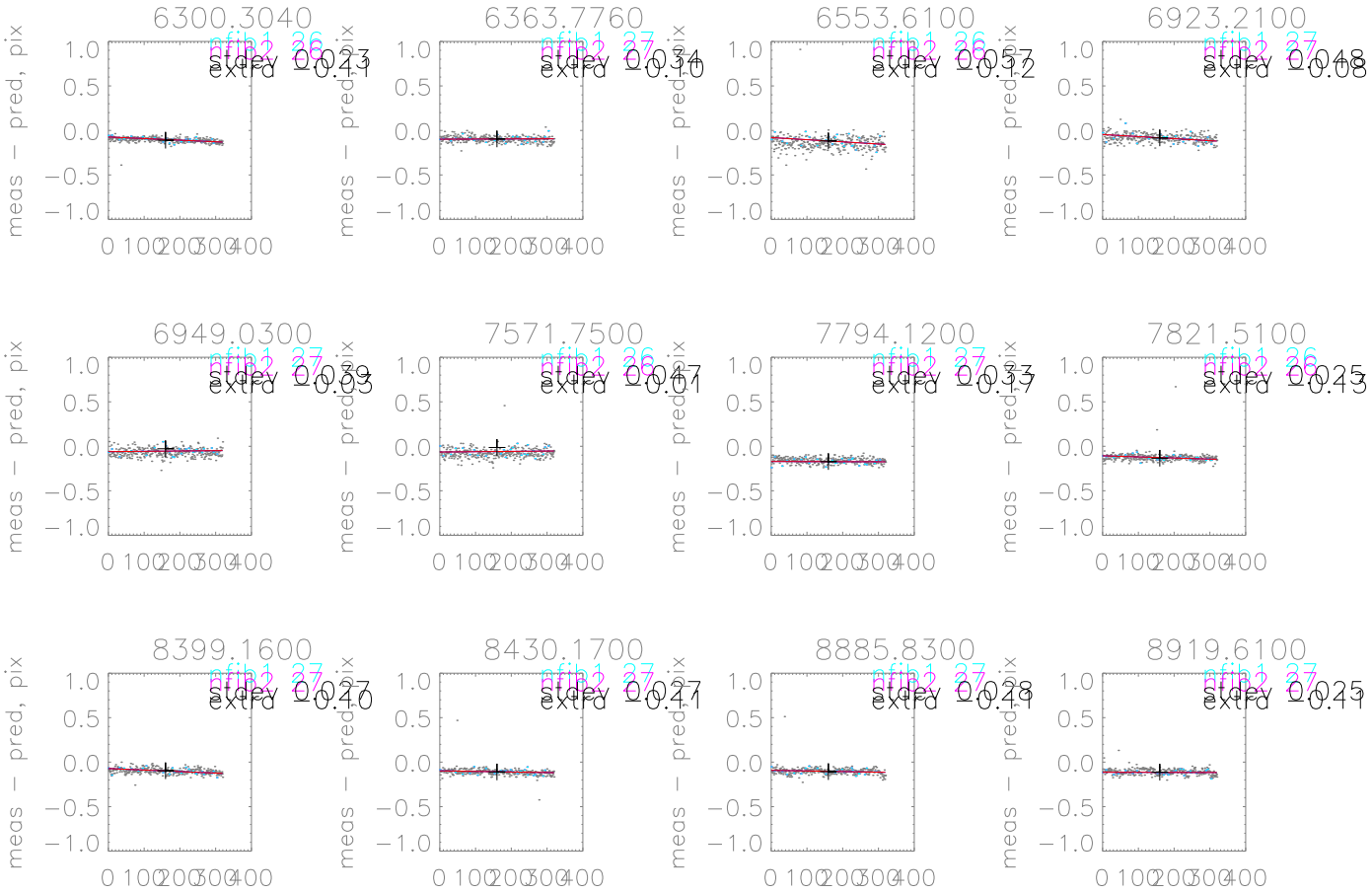

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

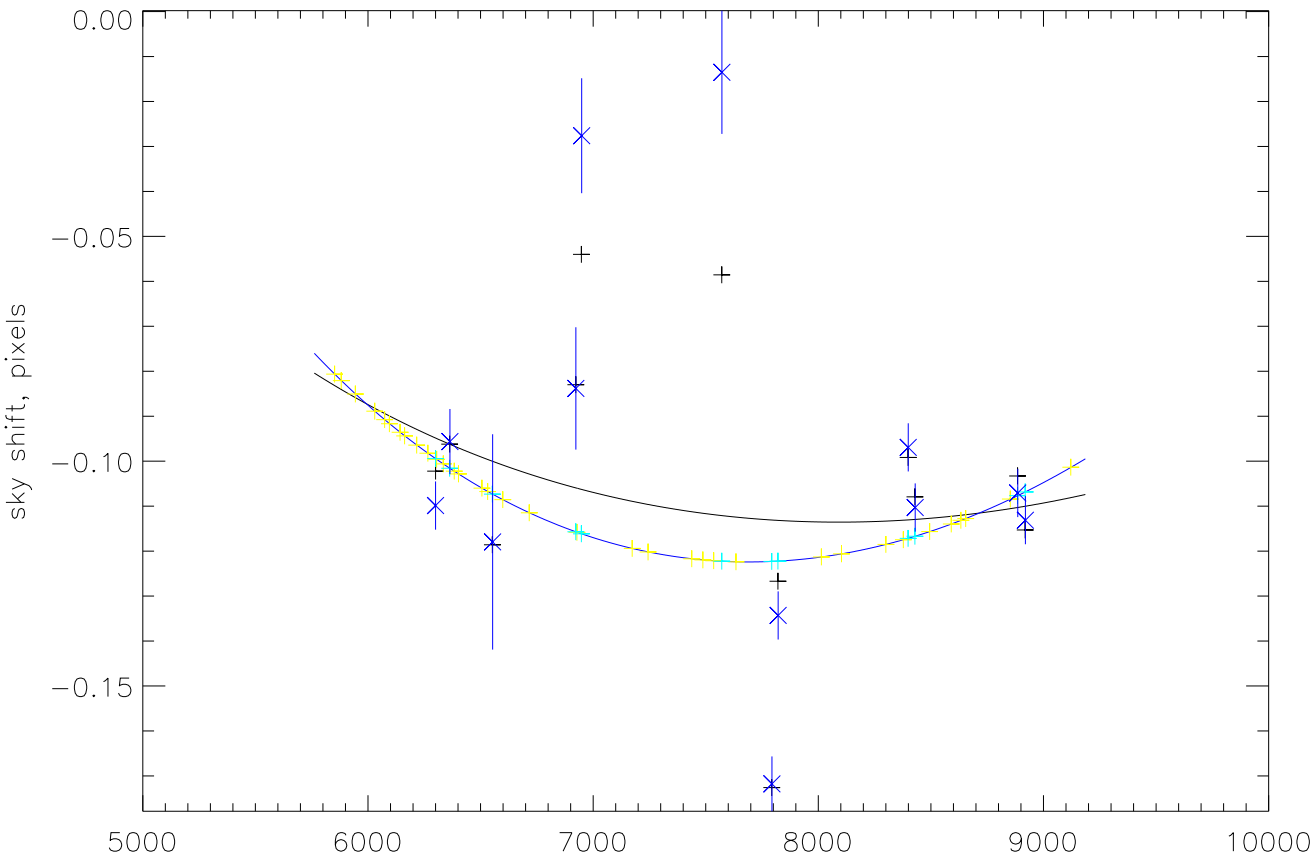

8399.1600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


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

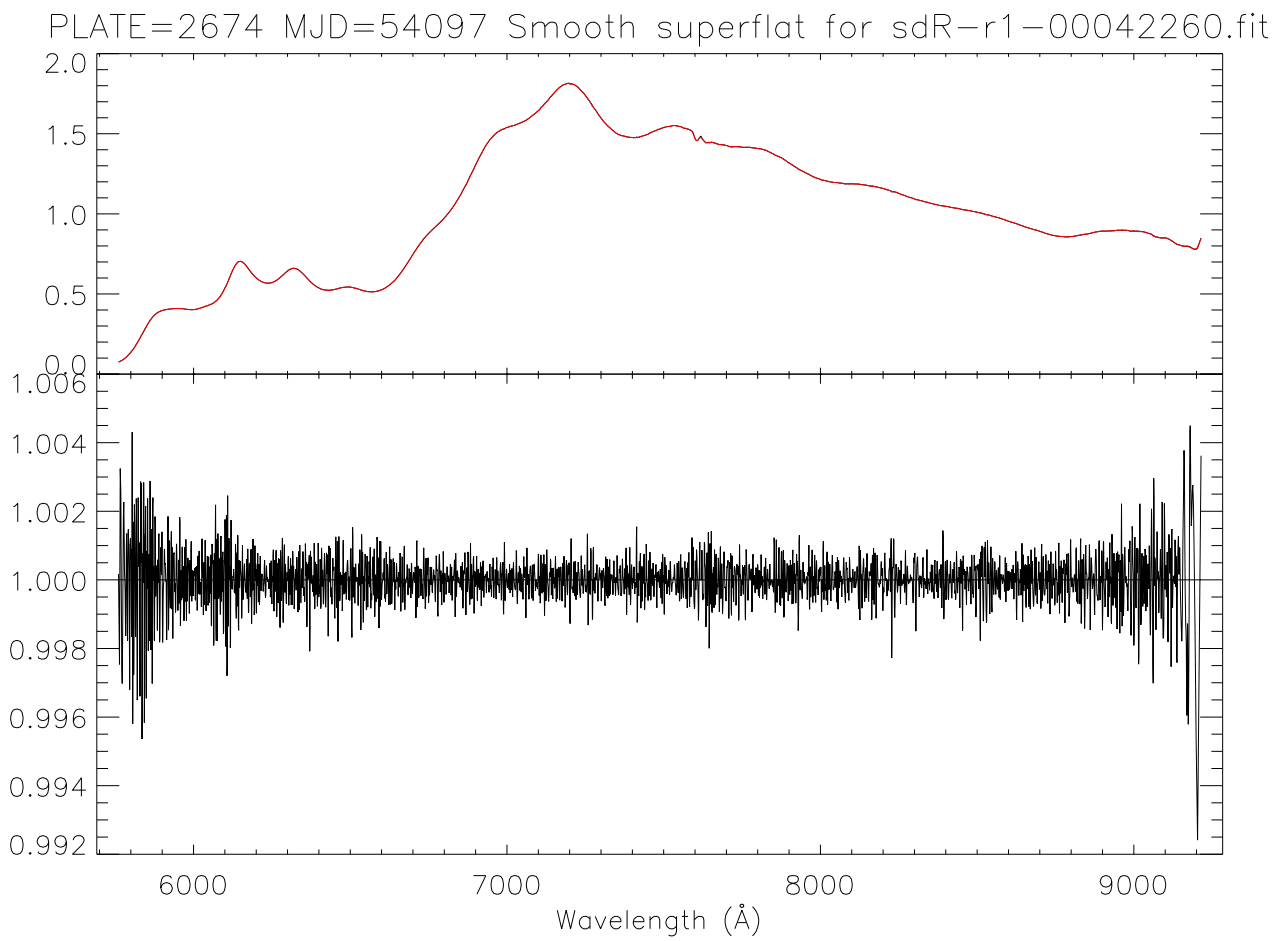

8885.8300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

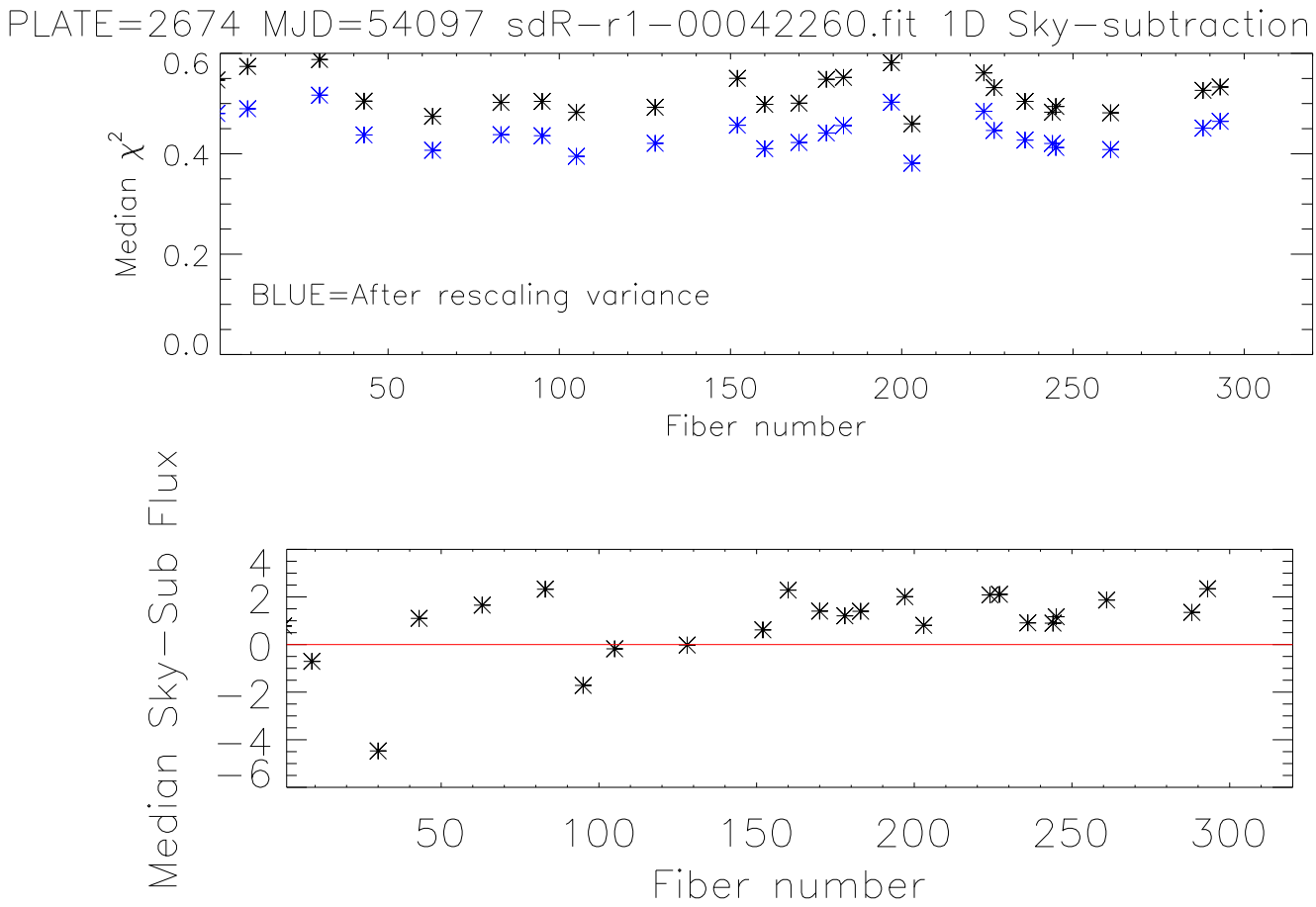

8919.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

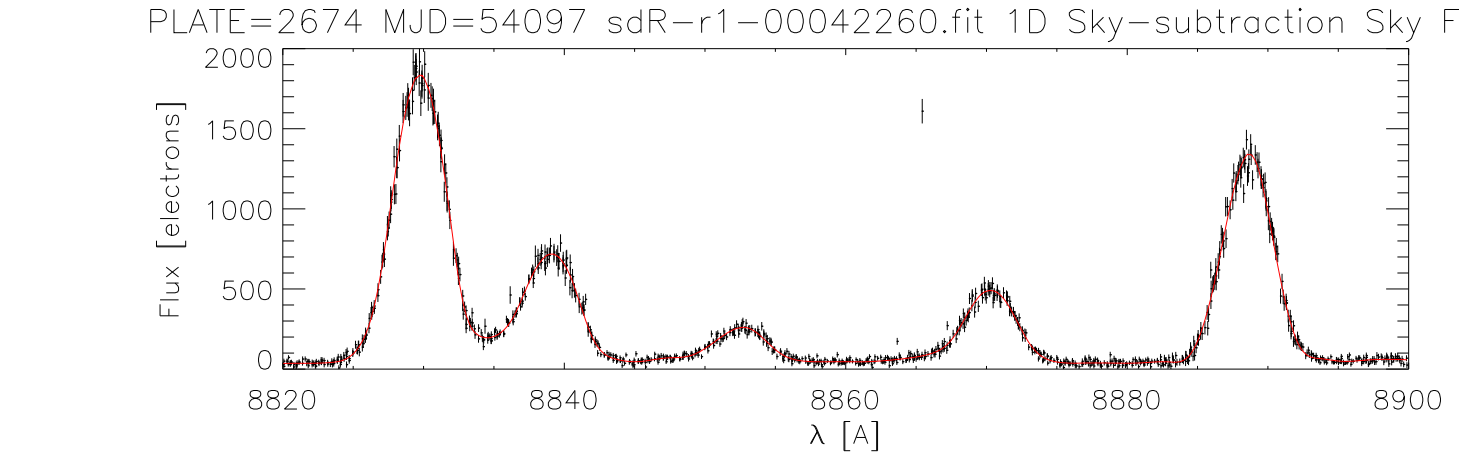

6300.3040
mfib1 26
mfib2 26
stdev 0.023
extrd −0.41
6363.7760
mfib1 27
mfib2 27
stdev 0.034
extrd −0.10
6553.6100
mfib1 26
mfib2 26
stdev 0.057
extrd −0.12
6923.2100
mfib1 27
mfib2 27
stdev 0.048
extrd −0.08
6949.0300
mfib1 27
mfib2 27
stdev 0.039
extrd −0.03
7571.7500
mfib1 26
mfib2 26
stdev 0.047
extrd −0.01
7794.1200
mfib1 27
mfib2 27
stdev 0.033
extrd −0.17
7821.5100
mfib1 26
mfib2 26
stdev 0.025
extrd −0.43
8399.1600
mfib1 27
mfib2 27
stdev 0.027
extrd −0.40
8430.1700
mfib1 27
mfib2 27
stdev 0.027
extrd −0.41
8885.8300
mfib1 27
mfib2 27
stdev 0.028
extrd −0.41
8919.6100
mfib1 27
mfib2 27
stdev 0.025
extrd −0.41
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

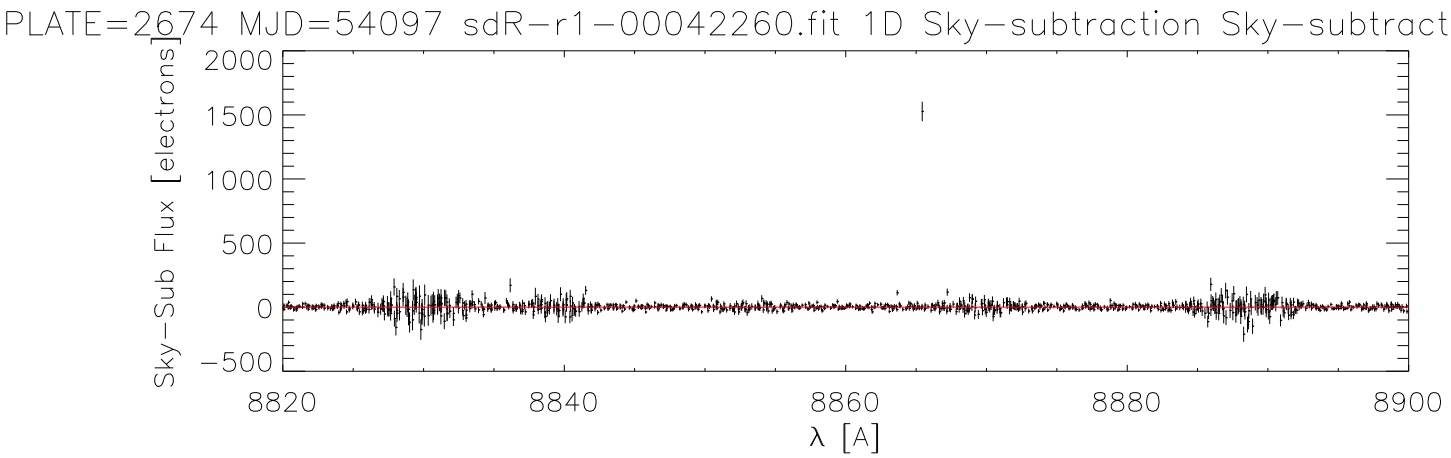

0.00
−0.05
−0.10
−0.15
sky shift, pixels
5000
6000
7000
8000
9000
10000

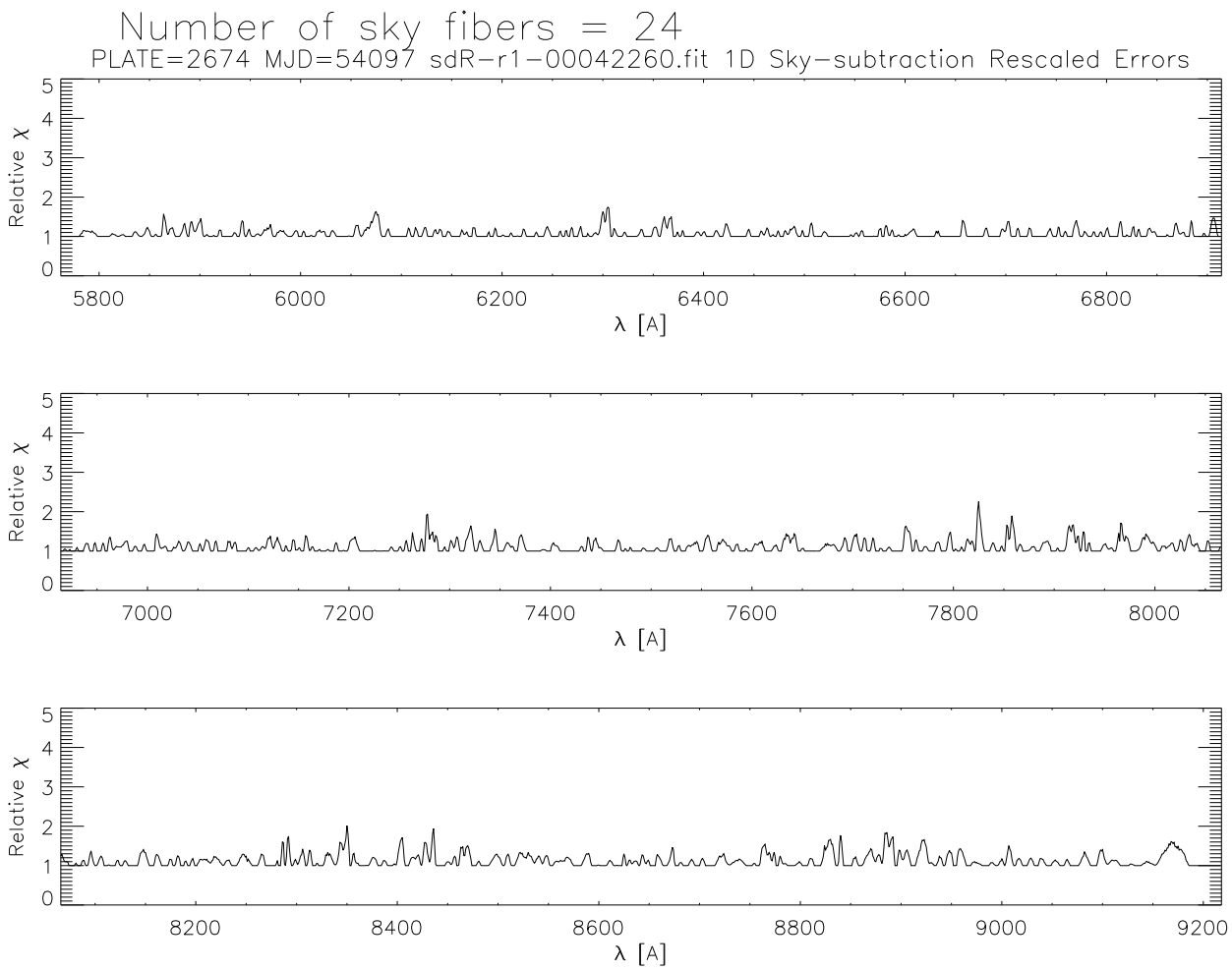
es= 0.0000

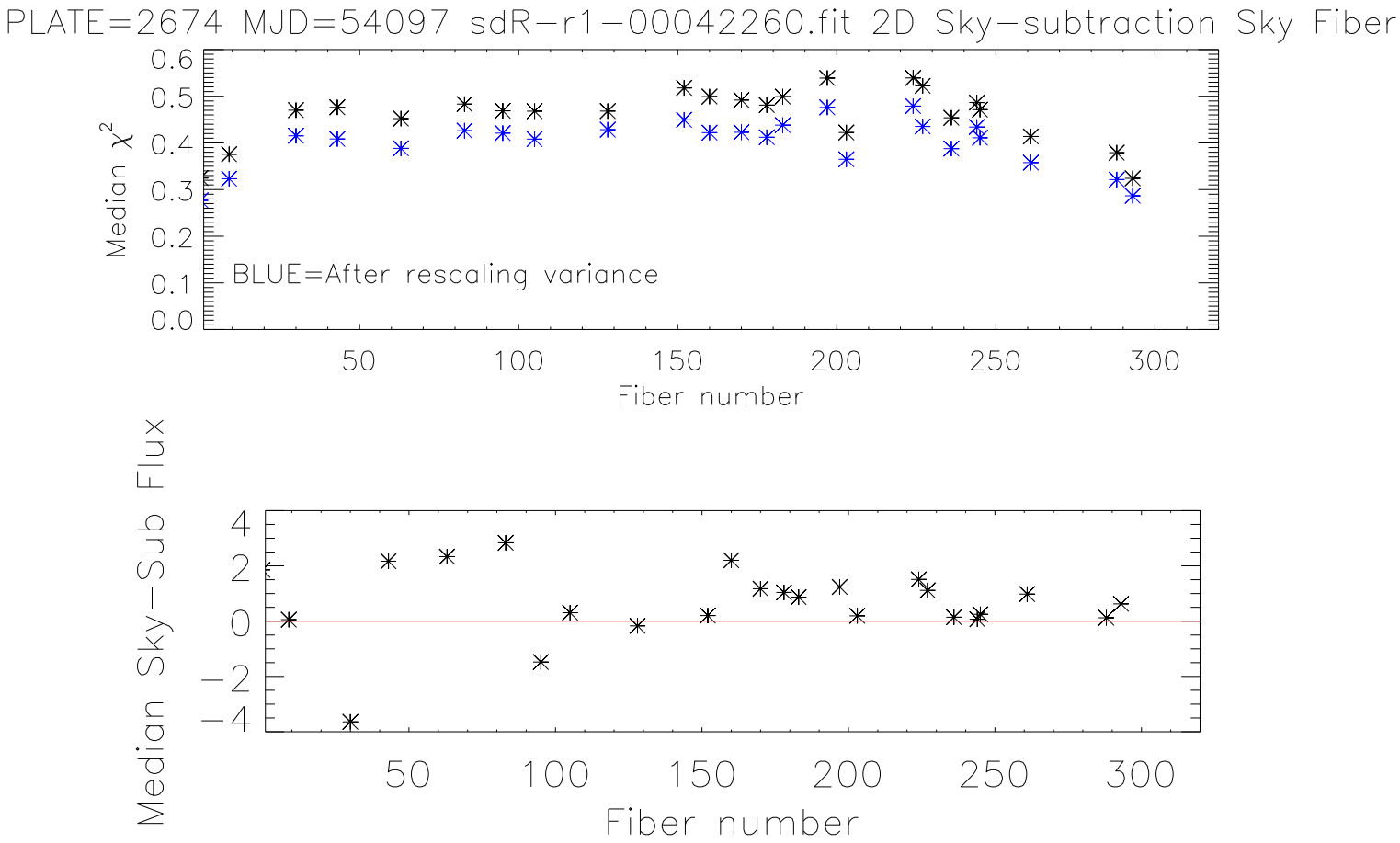

PLATE=2674 MJD=54097 Smooth superflat for sdR-r1-00042260.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
6000
7000
8000
9000
Wavelength (Å)

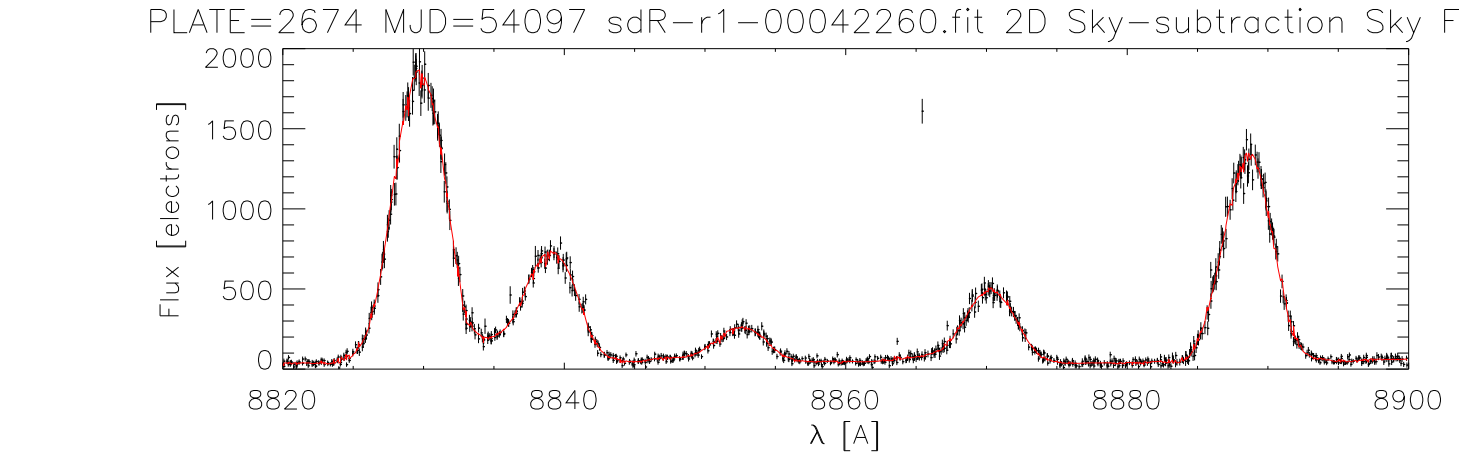

PLATE=2674 MJD=54097 sdR-r1-00042260.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
50
100
150
200
250
300
Fiber number

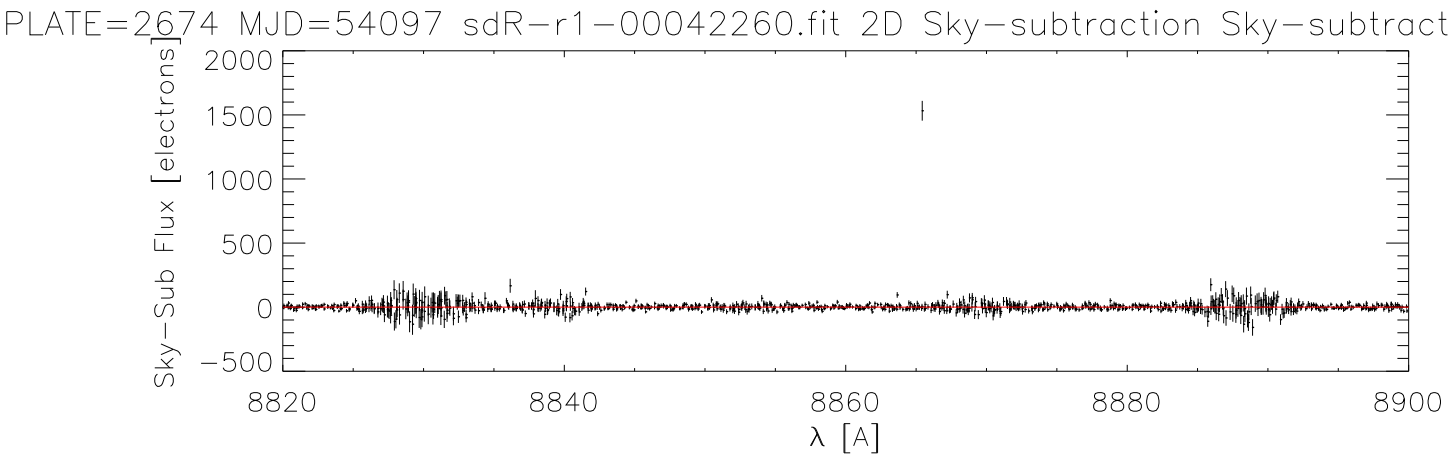

PLATE=2674 MJD=54097 sdR-r1-00042260.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

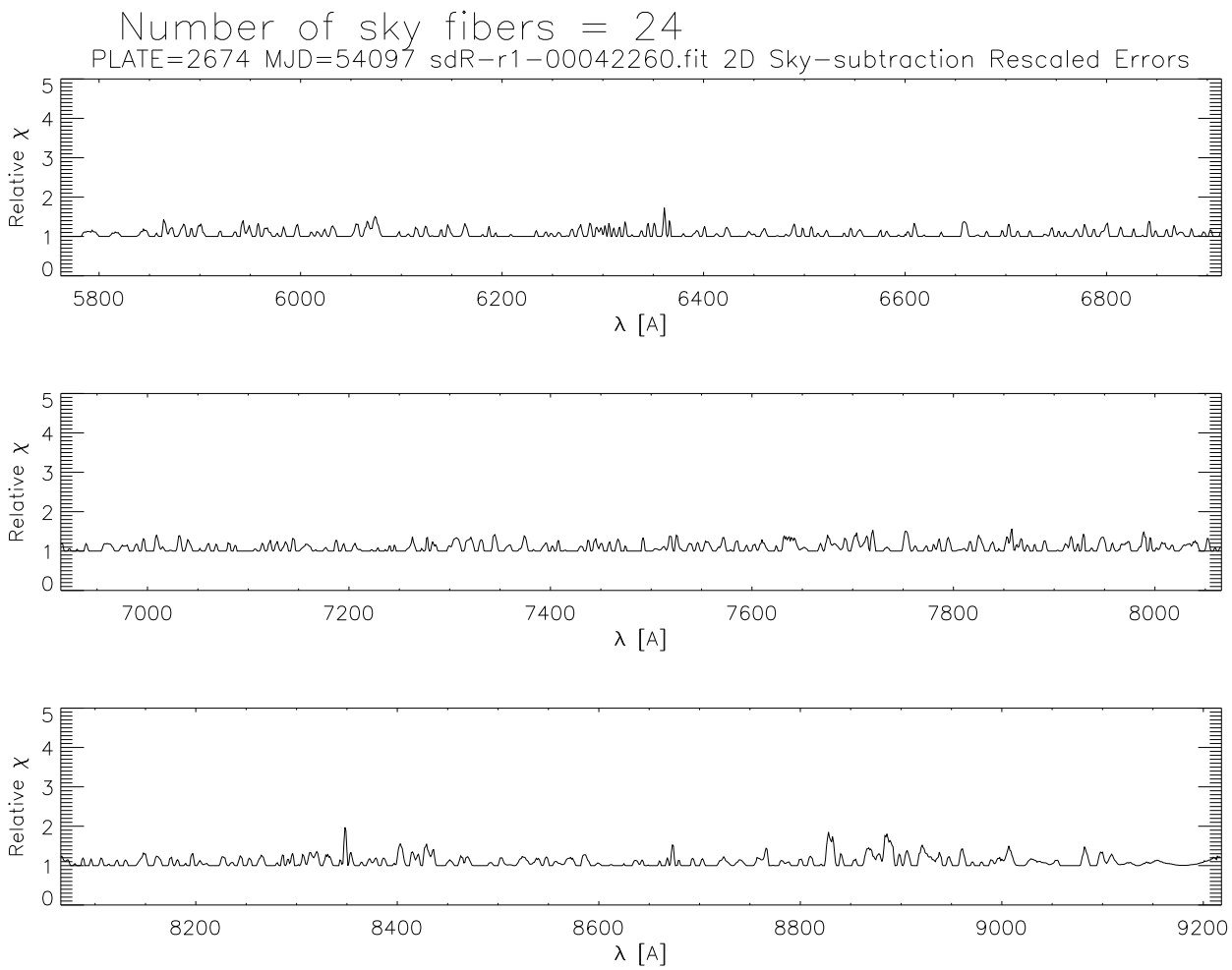

PLATE=2674 MJD=54097 sdR-r1-00042260.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

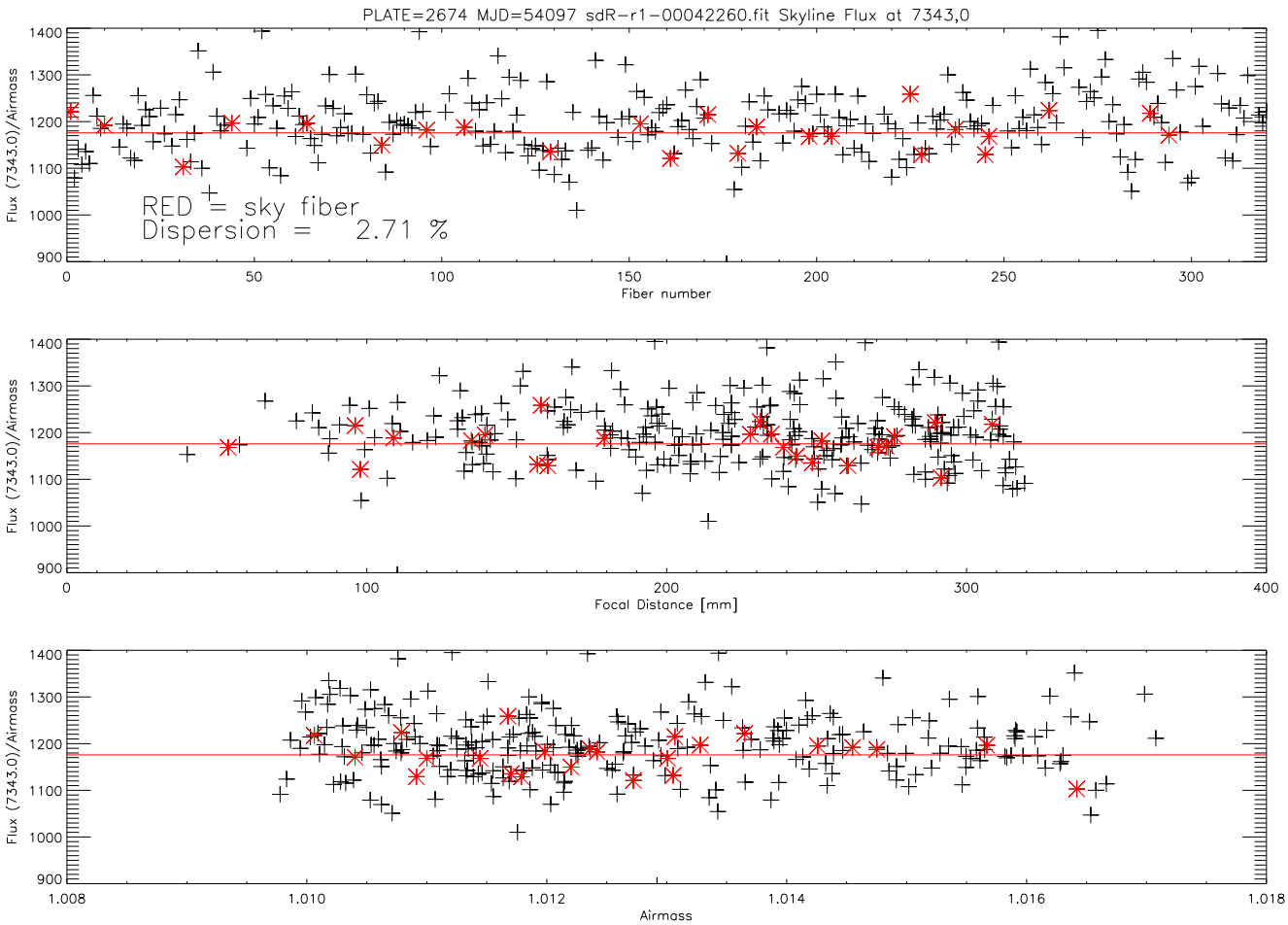

Number of sky fibers = 24
PLATE=2674 MJD=54097 sdR-r1-00042260.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

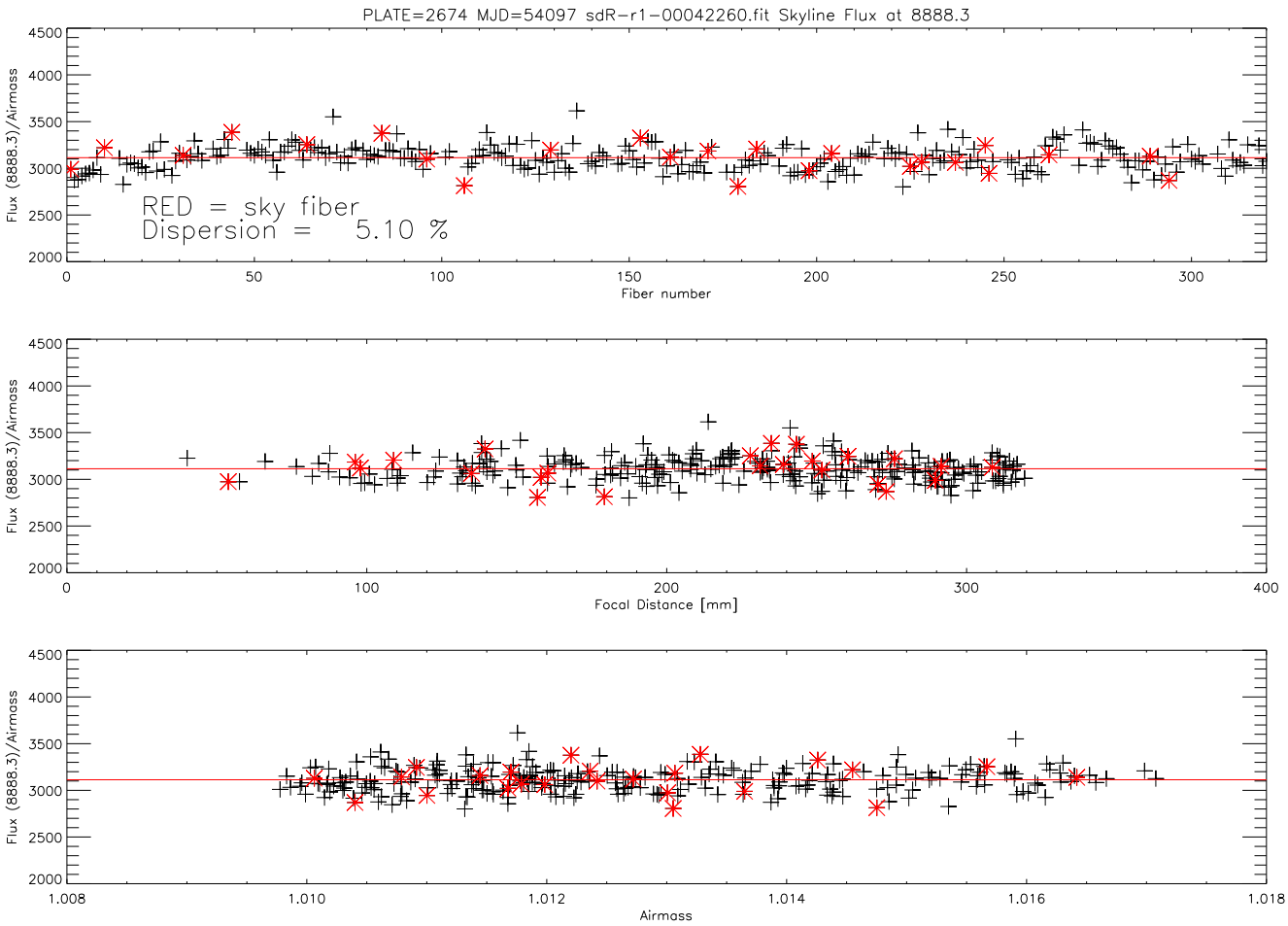

PLATE=2674 MJD=54097 sdR-r1-00042260.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

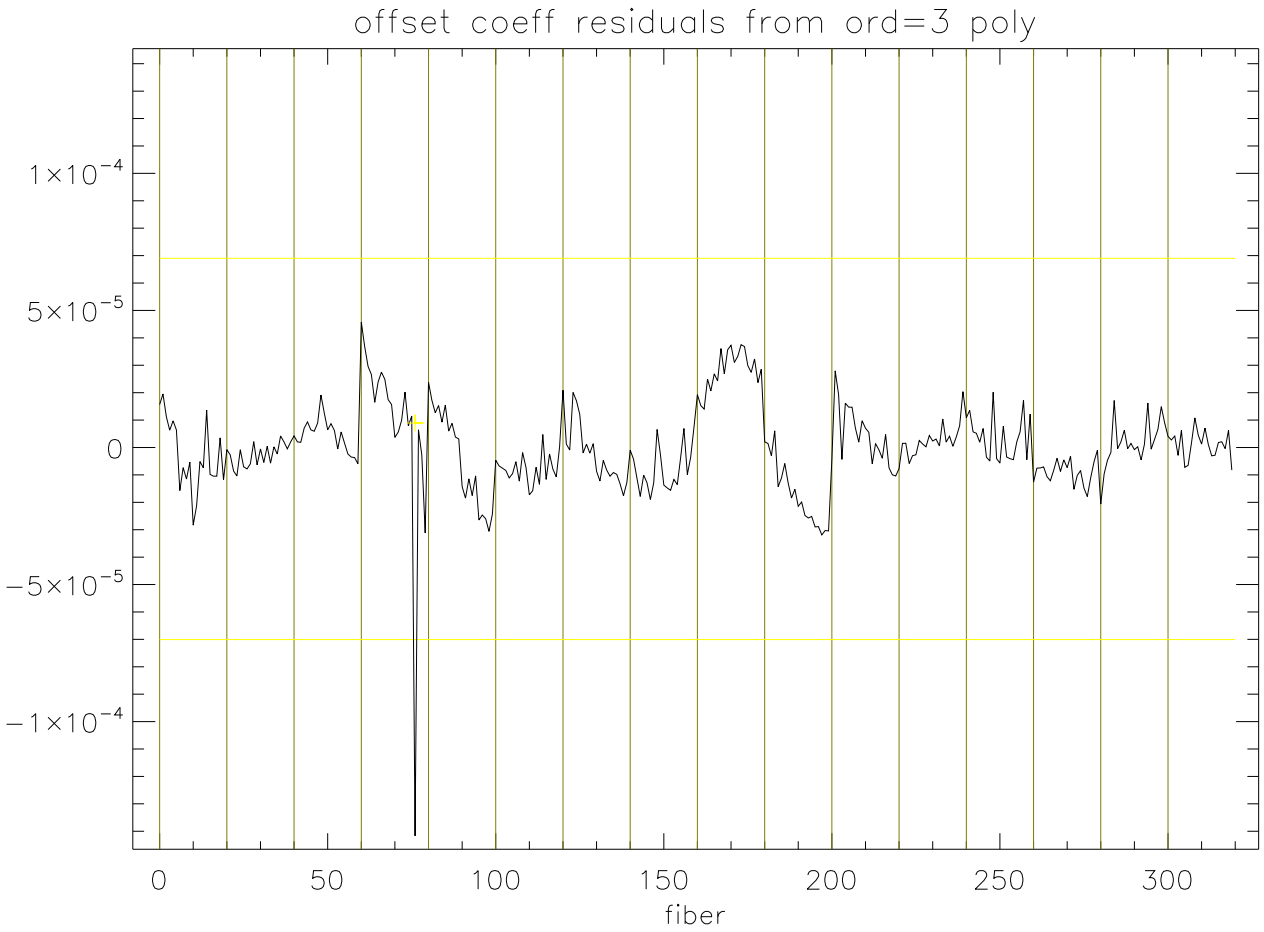

PLATE=2674 MJD=54097 sdR-r1-00042260.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

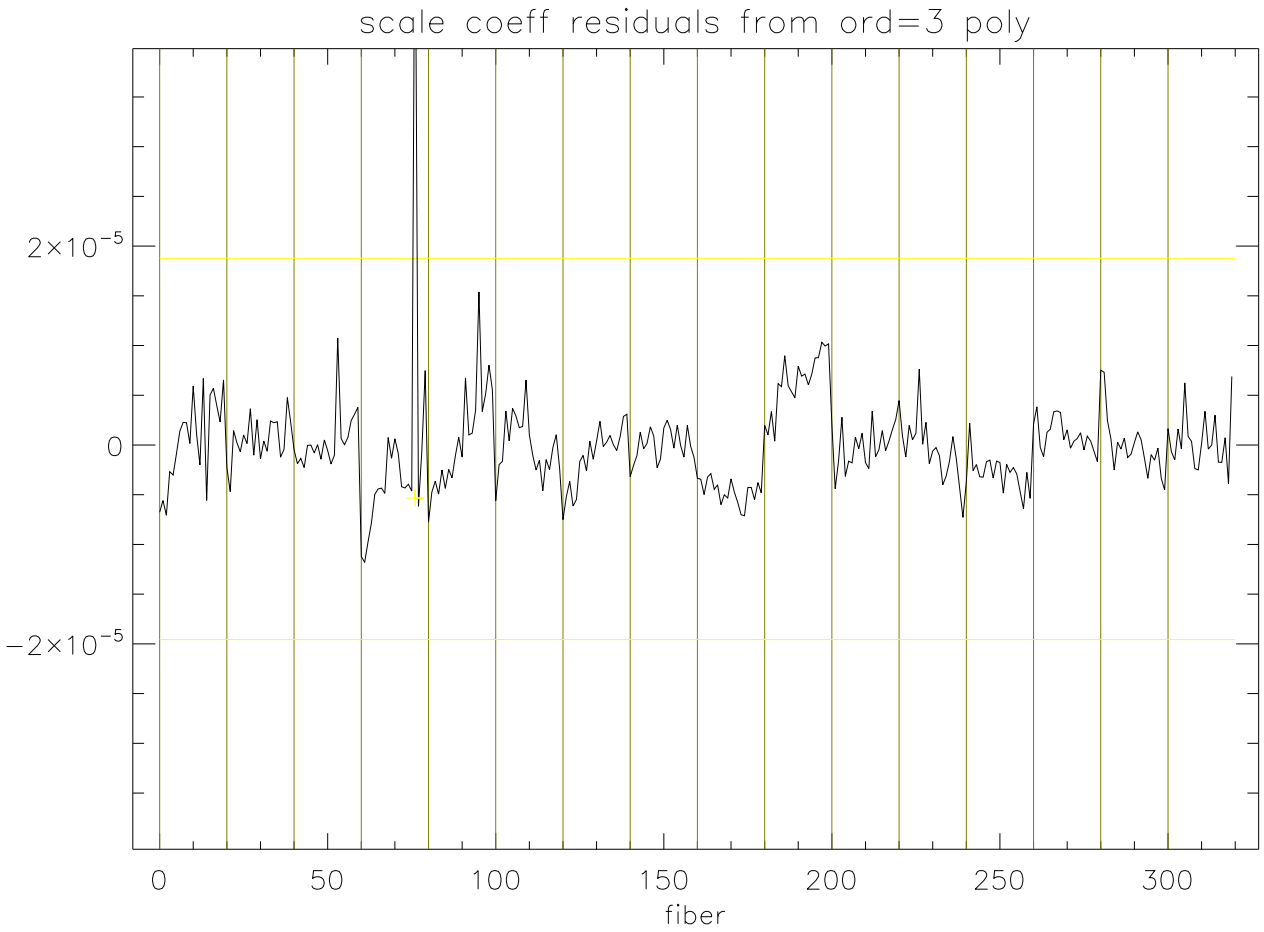

PLATE=2674 MJD=54097 sdR-r1-00042260.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

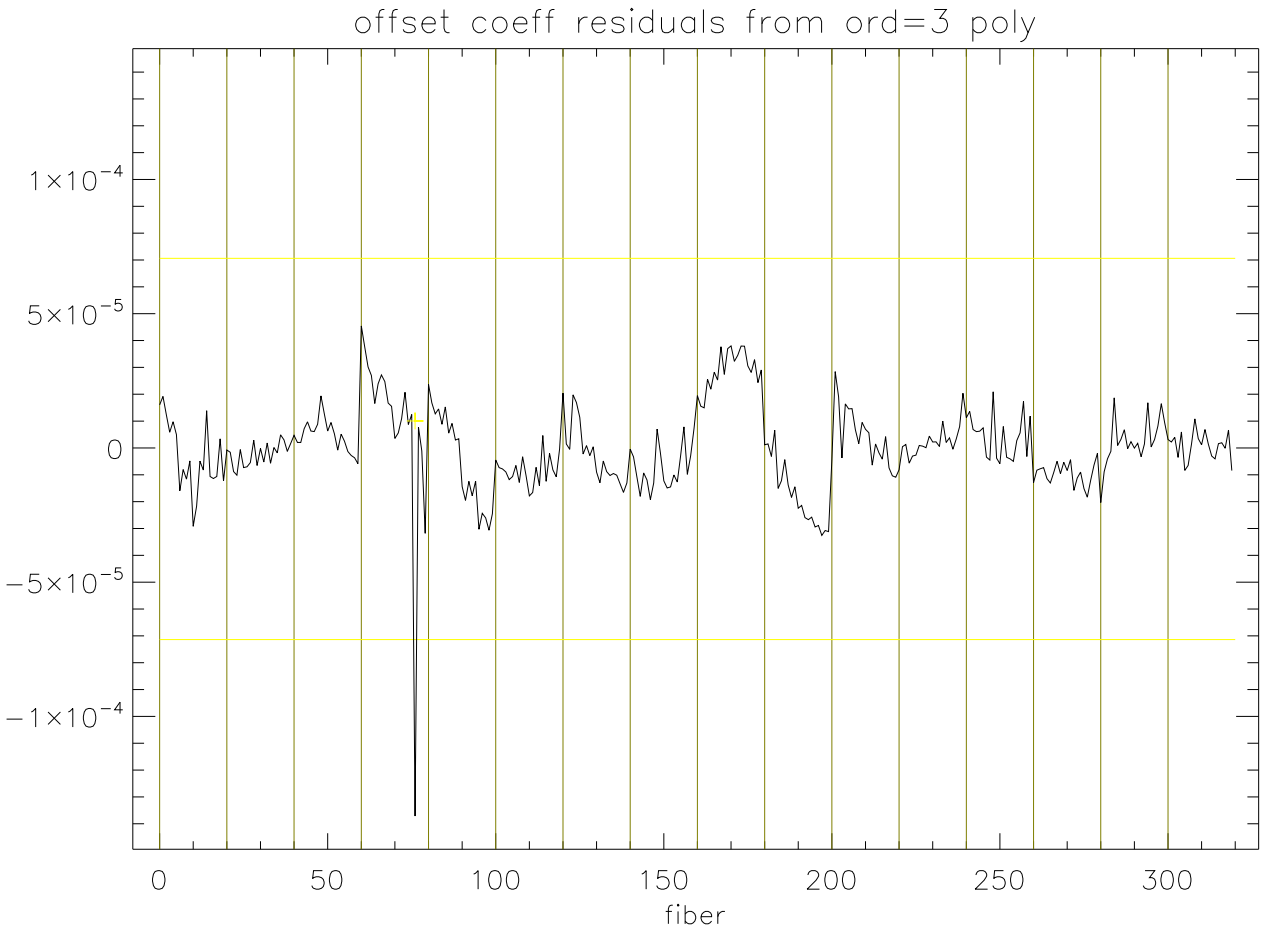

Number of sky fibers = 24
PLATE=2674 MJD=54097 sdR-r1-00042260.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

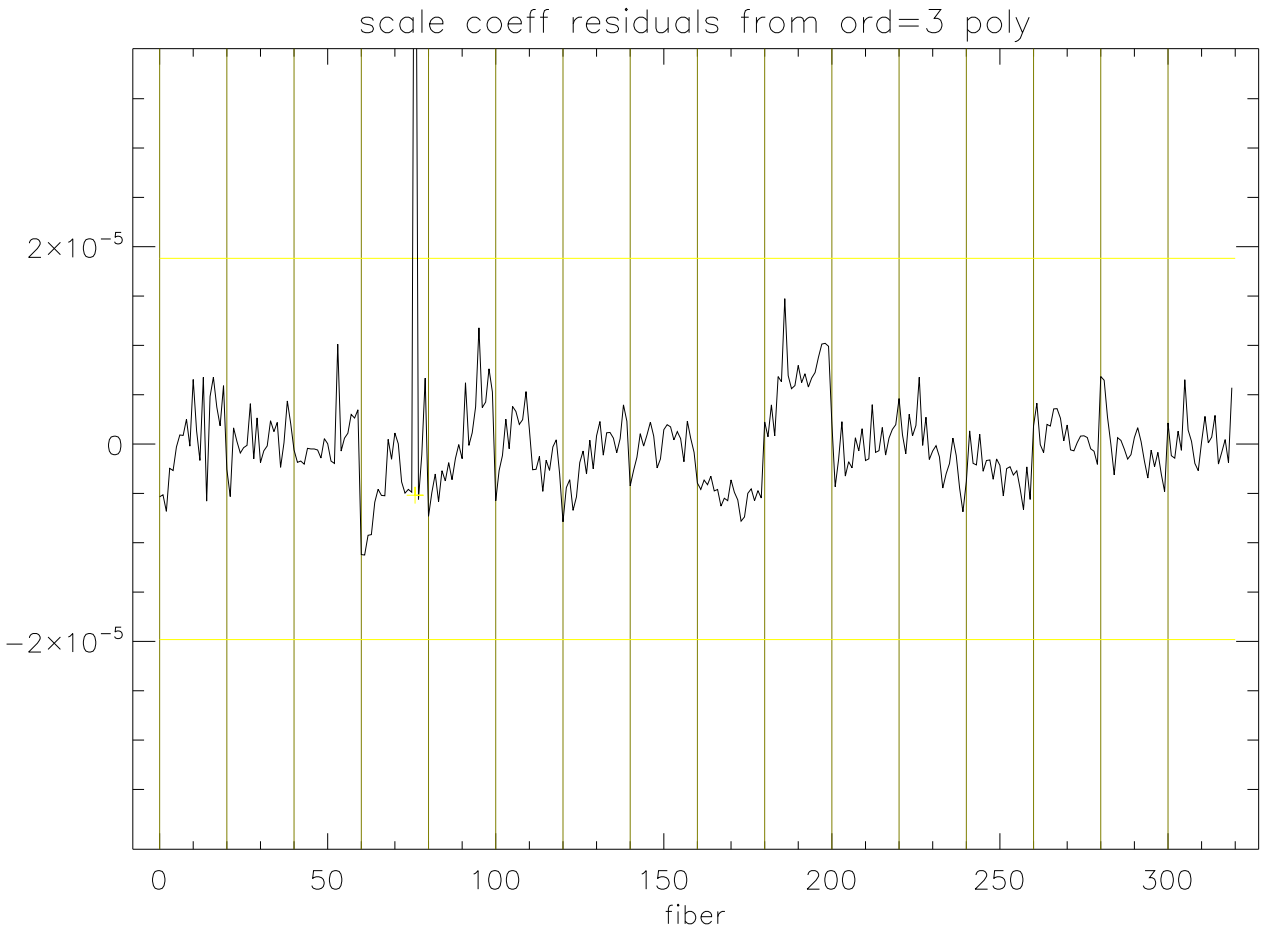

PLATE=2674 MJD=54097 sdR-r1-00042260.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.71 %
Fiber number
Focal Distance [mm]
Airmass

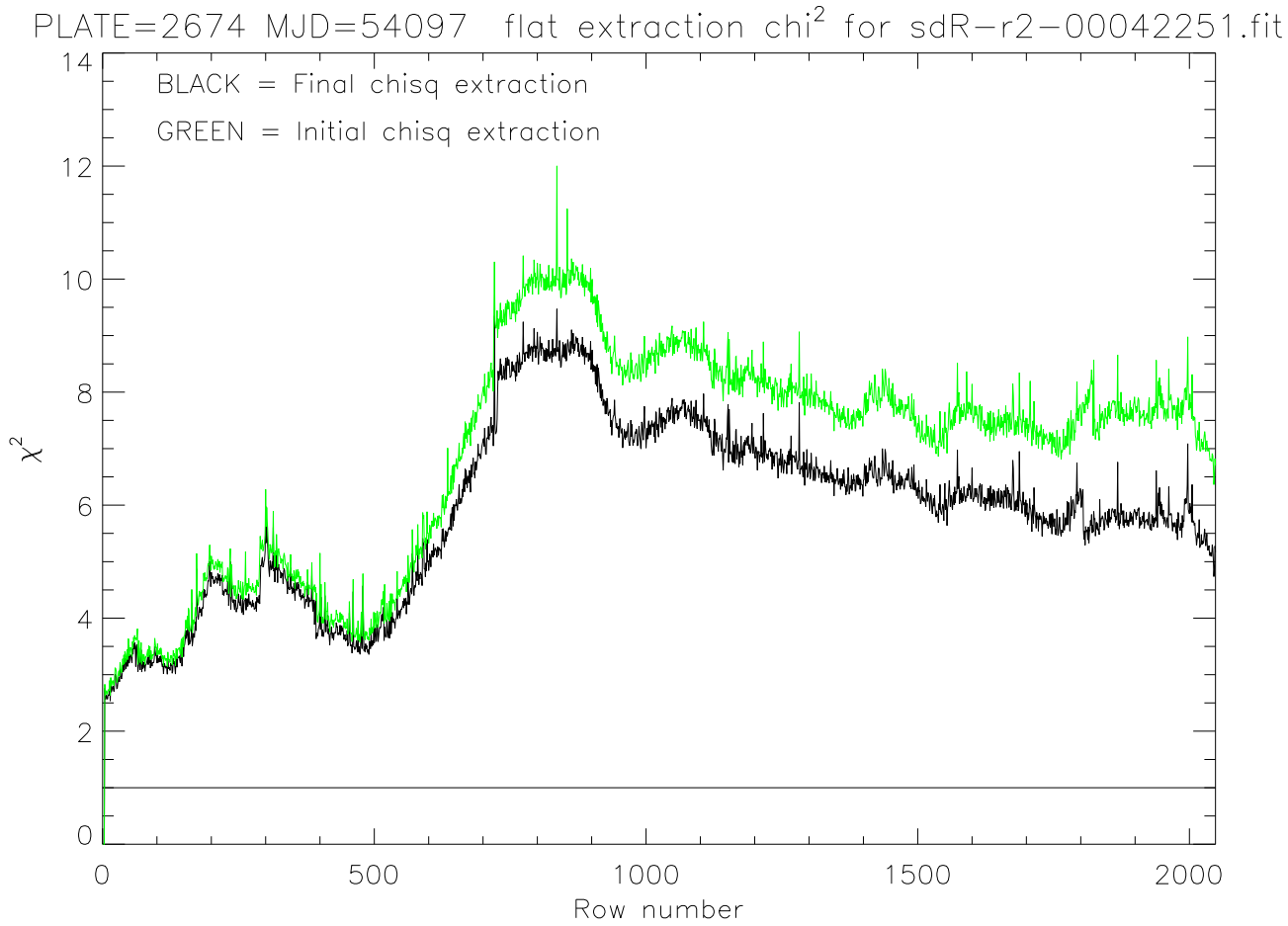

PLATE=2674 MJD=54097 sdR-r1-00042260.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 5.10 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

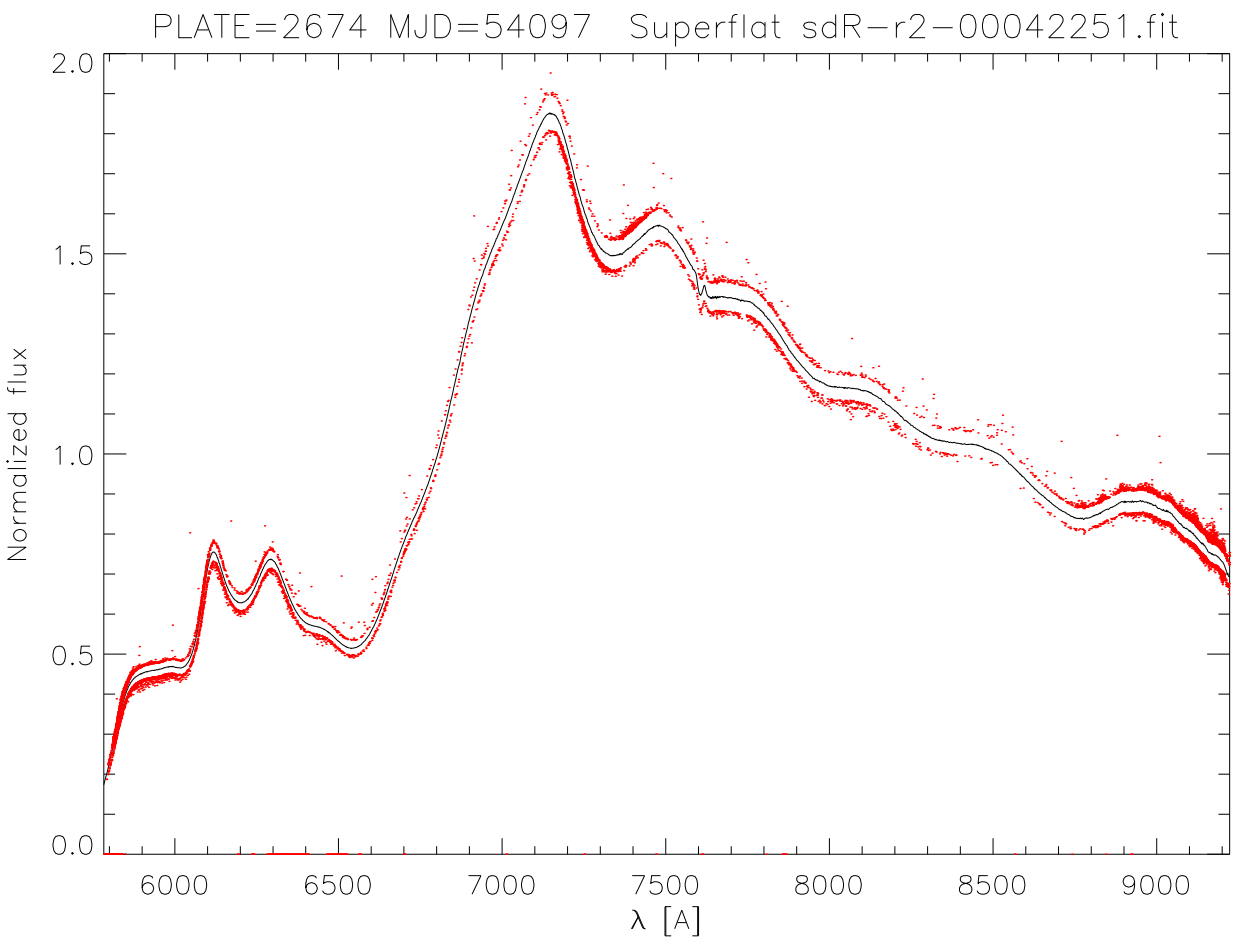

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

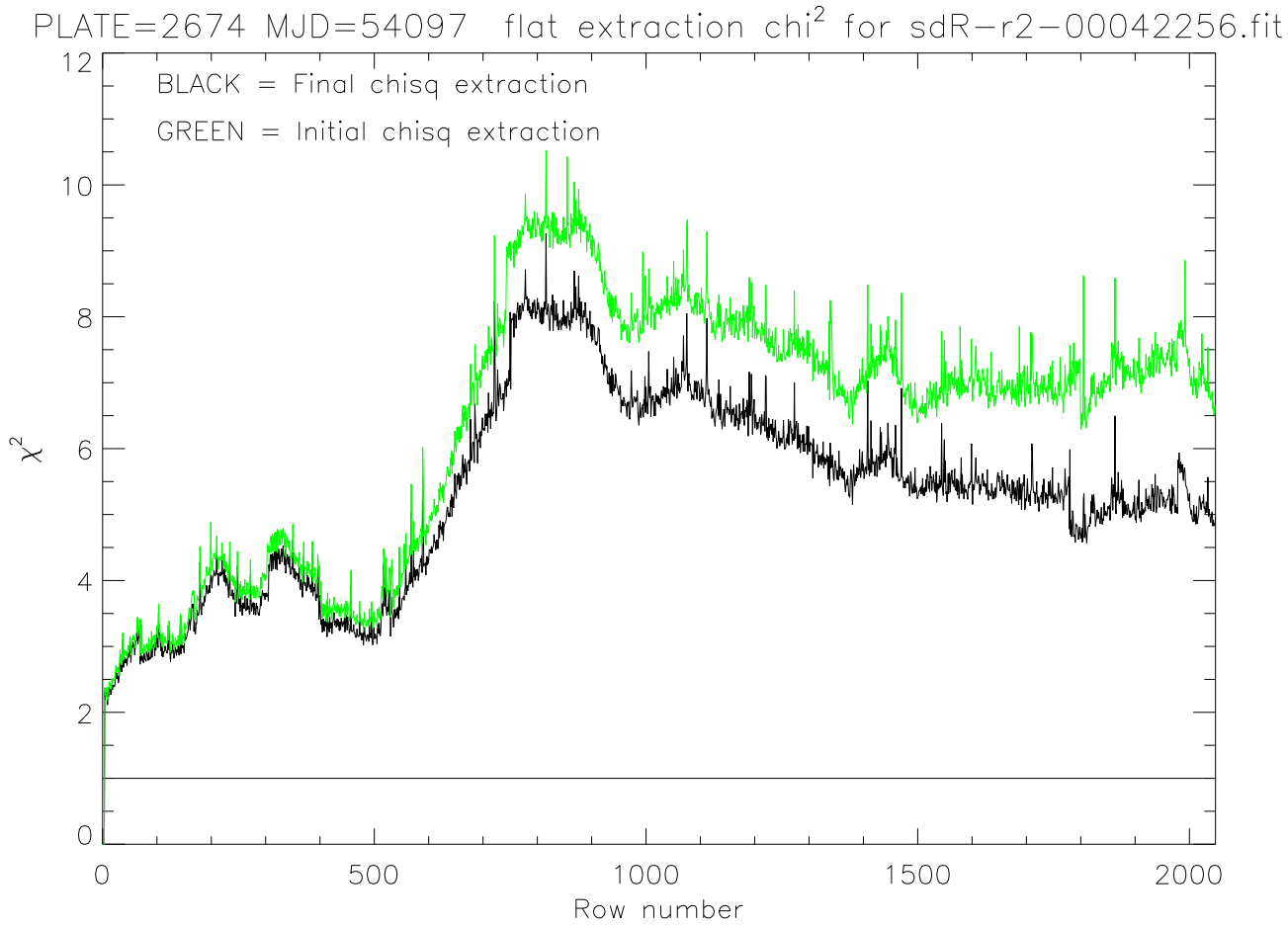

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

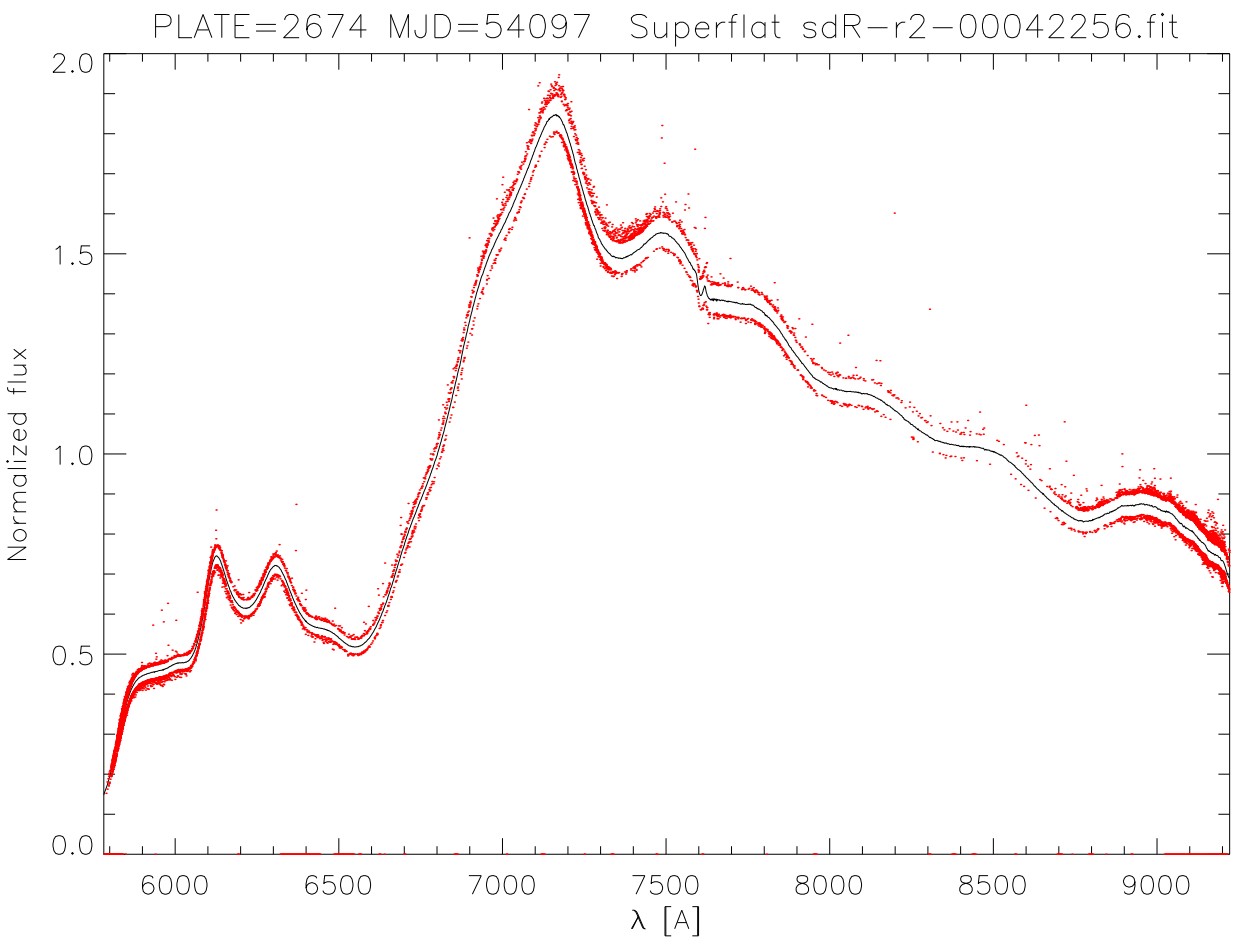

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

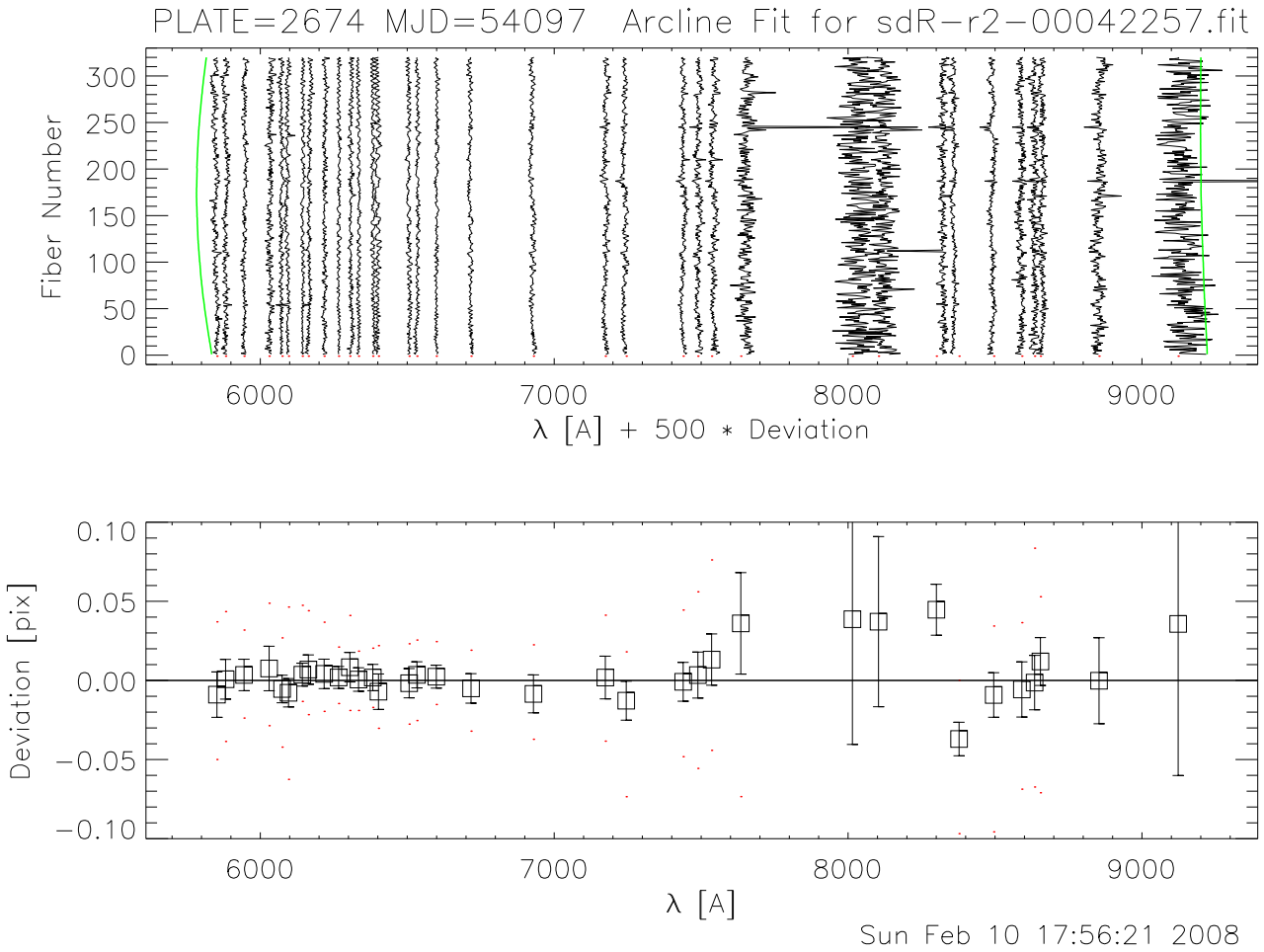

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

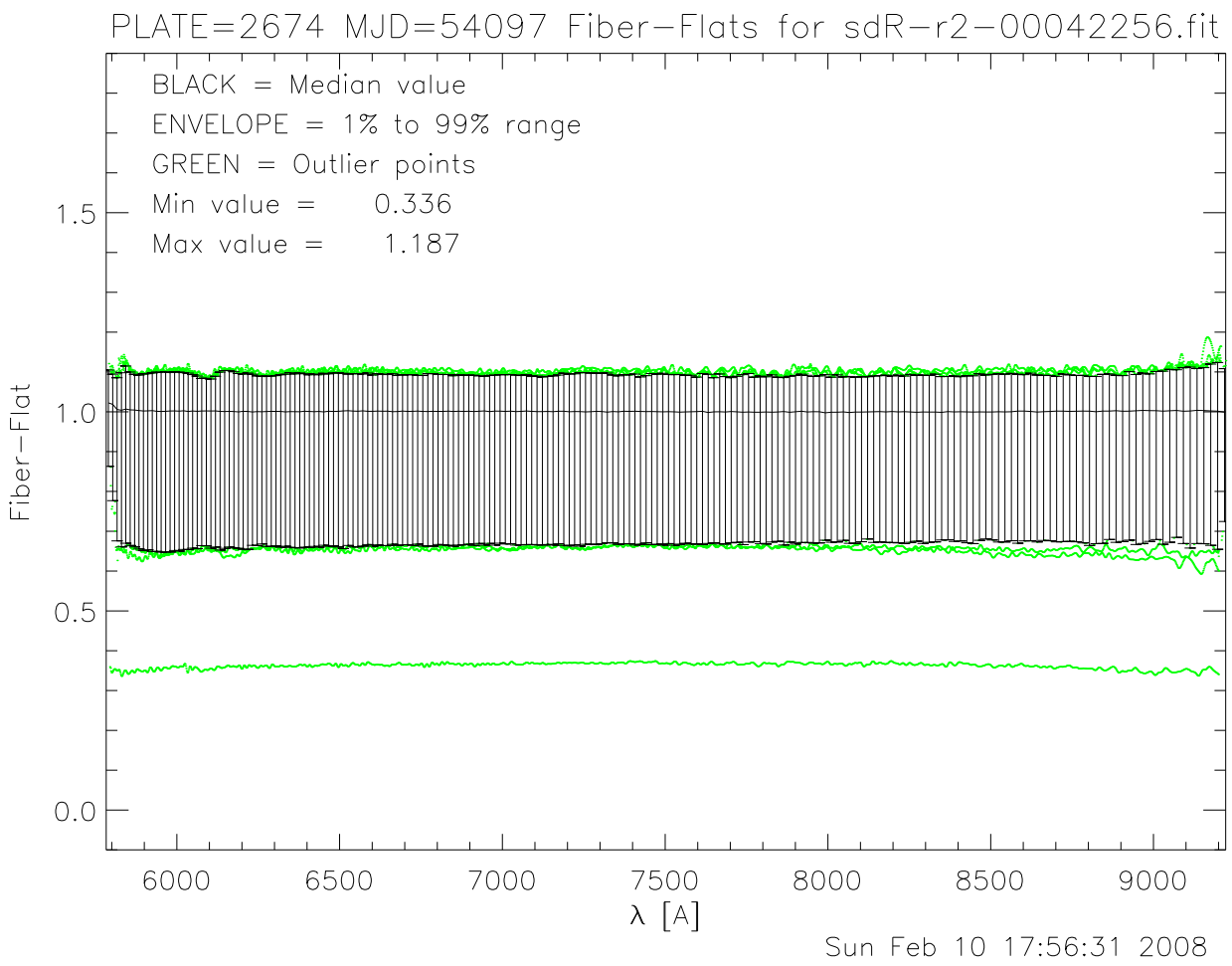

PLATE=2674 MJD=54097 flat extraction chi^2 for sdR−r2−00042251.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
14
0
500
1000
1500
2000

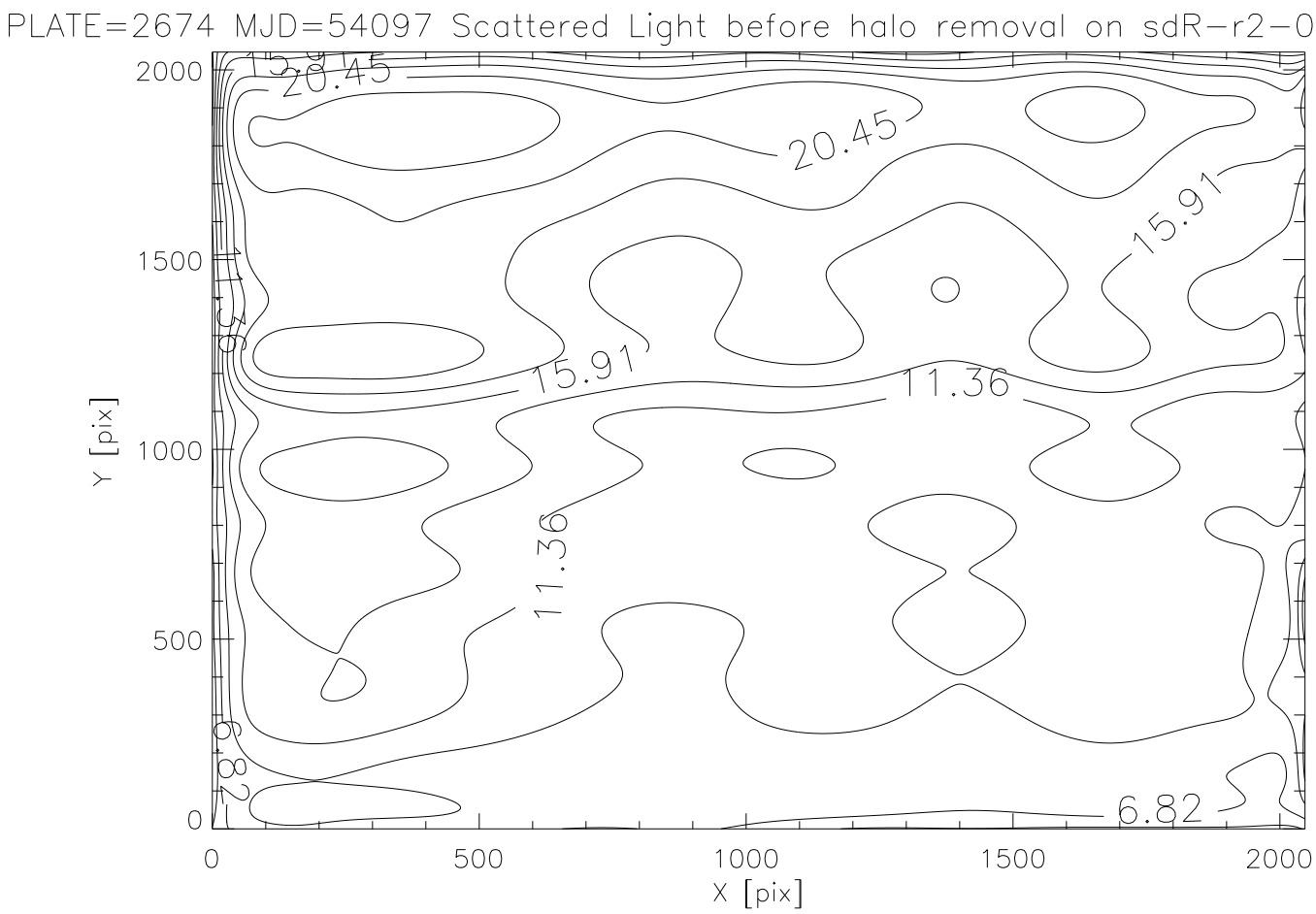

PLATE=2674 MJD=54097 Superflat sdR-r2-00042251.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

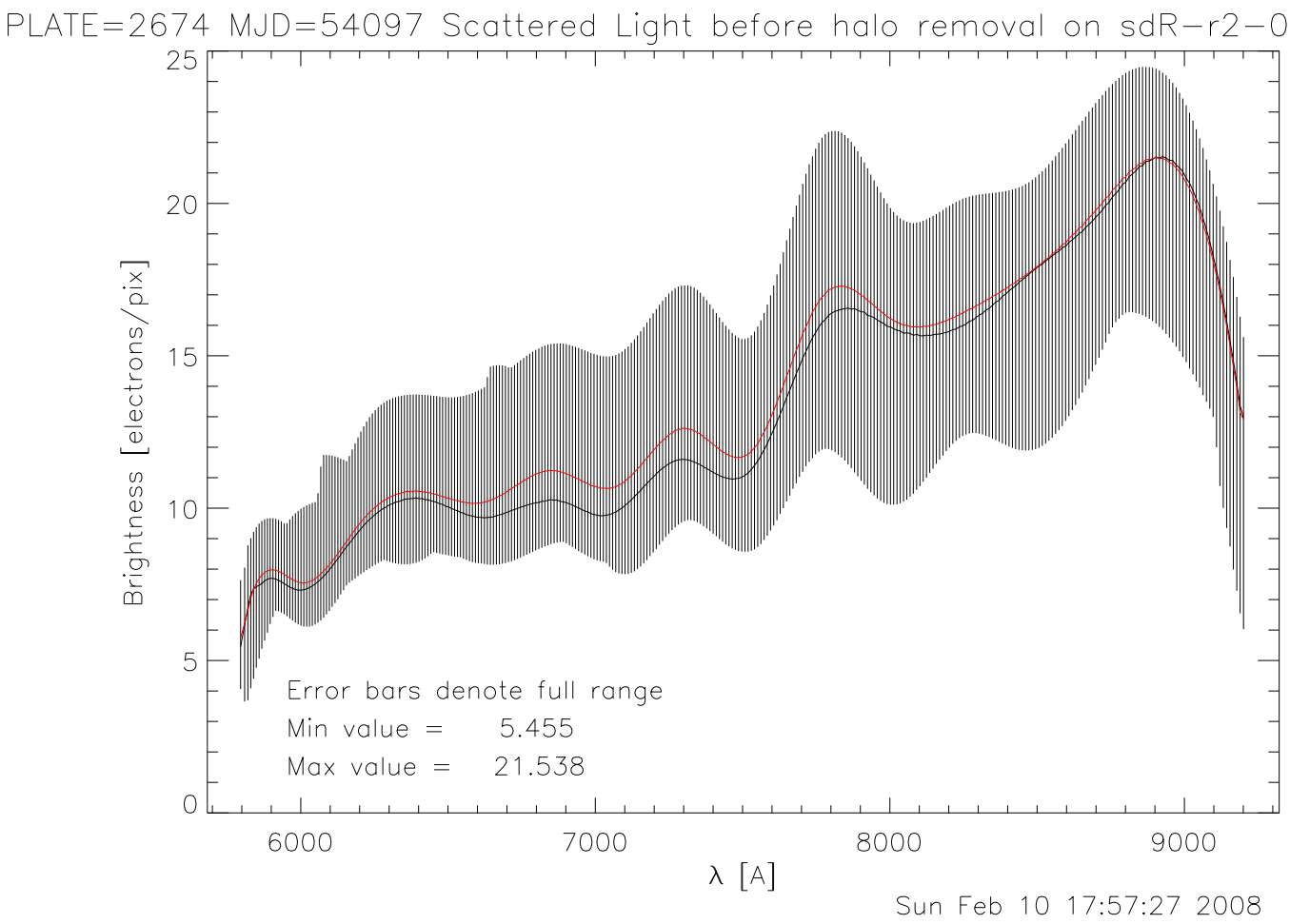

PLATE=2674 MJD=54097 flat extraction chi^2 for sdR-r2-00042256.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

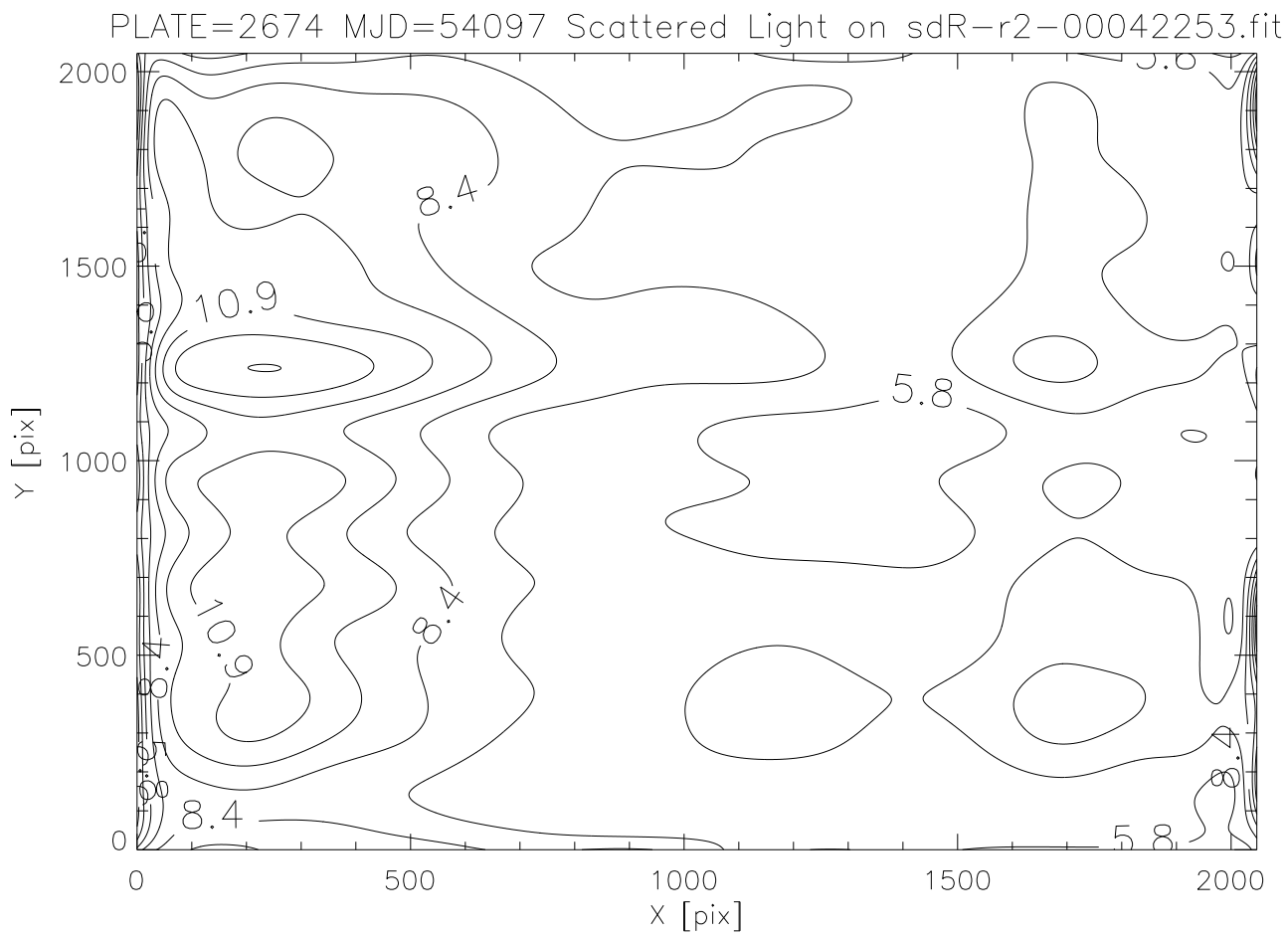

PLATE=2674 MJD=54097 Superflat sdR-r2-00042256.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

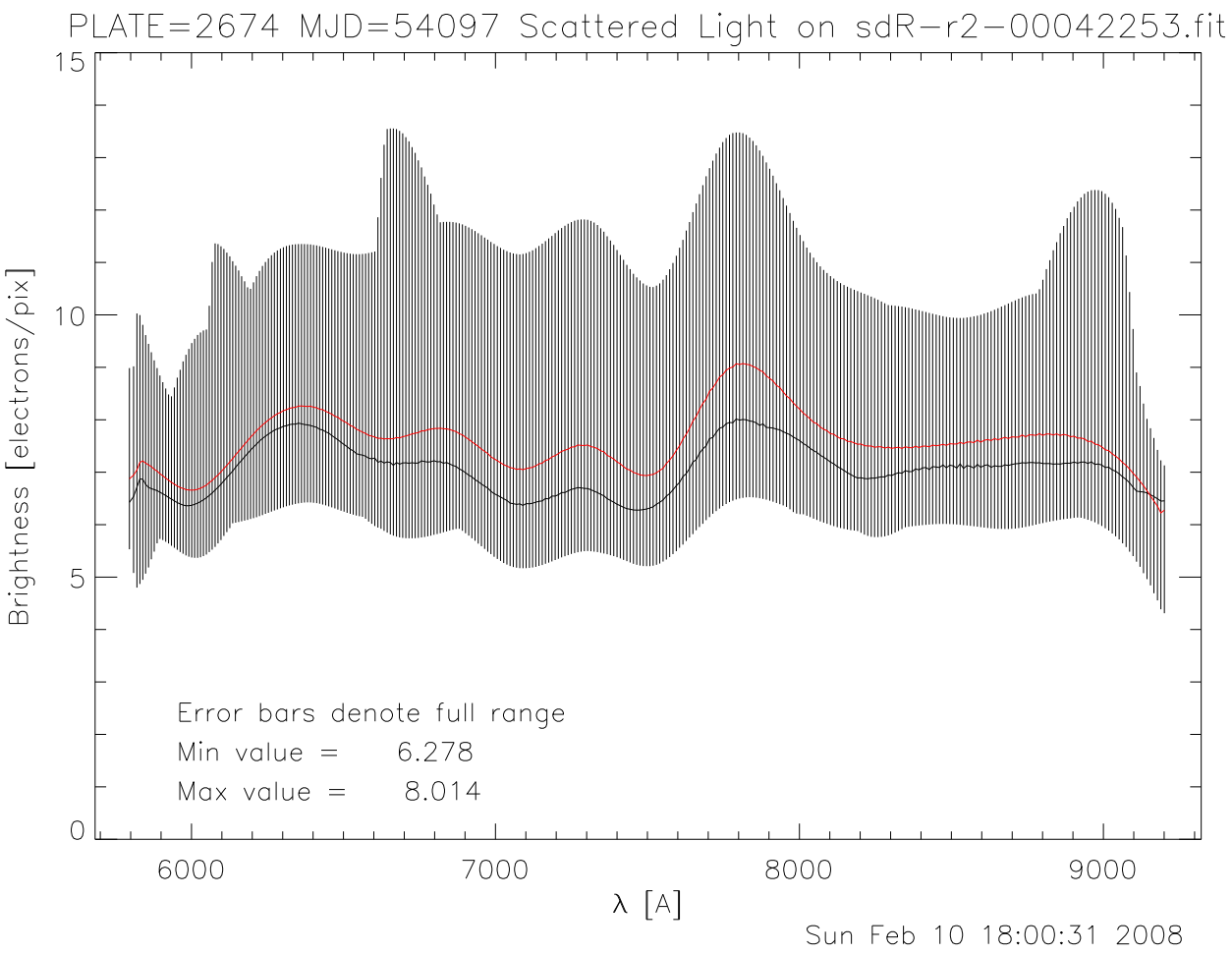

PLATE=2674 MJD=54097 Arcline Fit for sdR-r2-00042257.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Sun Feb 10 17:56:21 2008

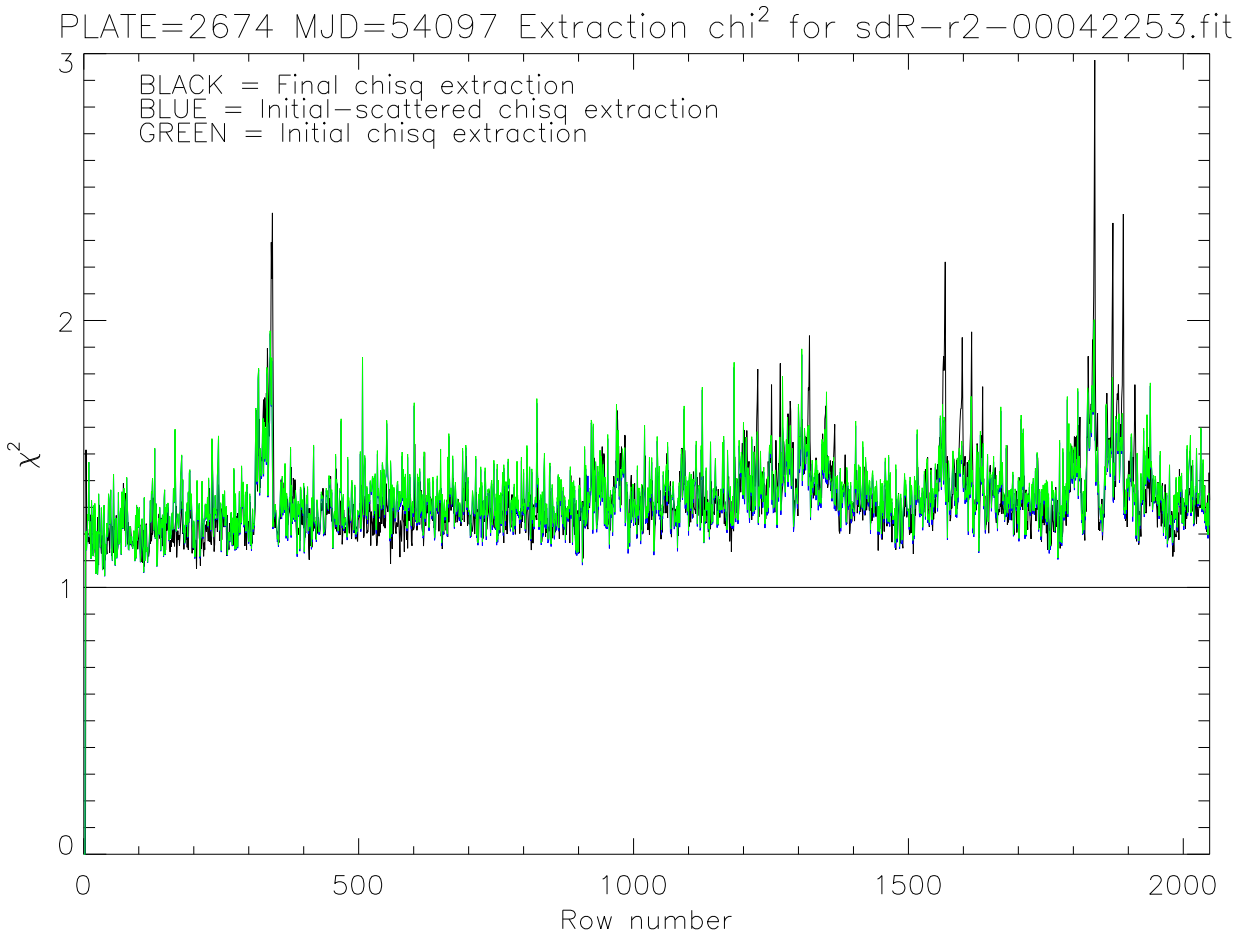

PLATE=2674 MJD=54097 Fiber−Flats for sdR−r2−00042256.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.336
Max value = 1.187
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sun Feb 10 17:56:31 2008

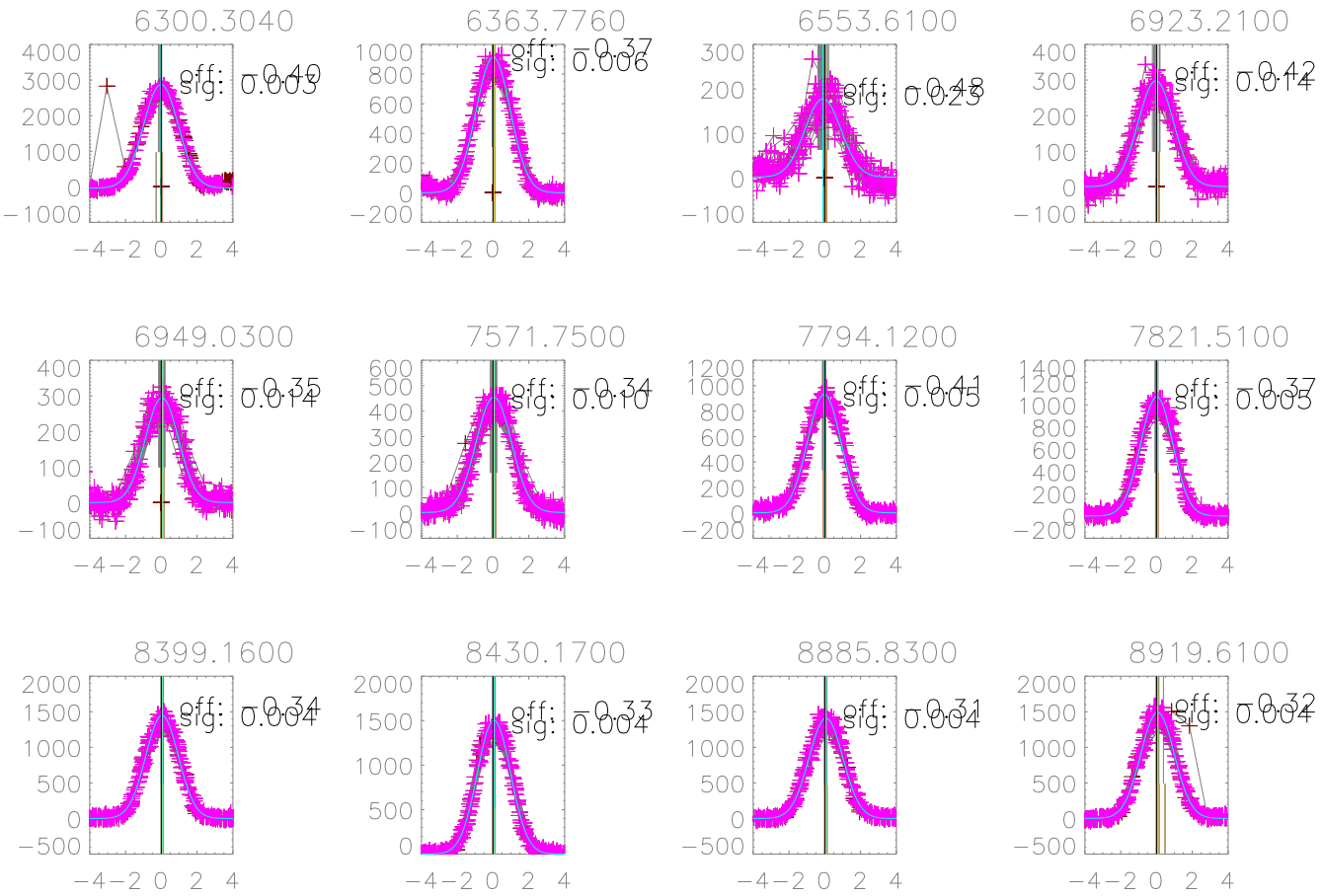

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR−r2−00042253.fi
20.45
20.45
15.91
15.91
11.36
11.36
6.82
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

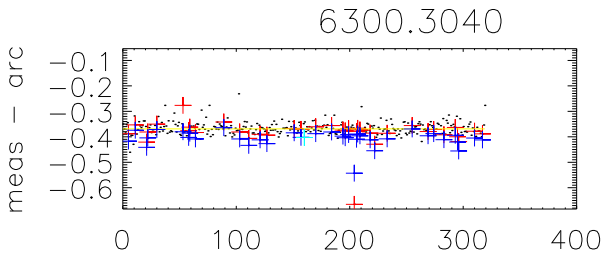

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR-r2-00042253.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.455
Max value = 21.538
Sun Feb 10 17:57:27 2008

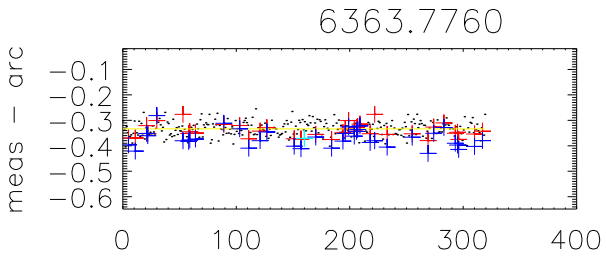

PLATE=2674 MJD=54097 Scattered Light on sdR-r2-00042253.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
10.9
8.4
5.8

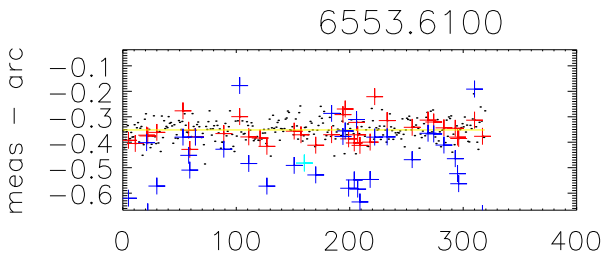

PLATE=2674 MJD=54097 Scattered Light on sdR-r2-00042253.fit
Brightness [electrons/pix]
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 6.278
Max value = 8.014
Sun Feb 10 18:00:31 2008

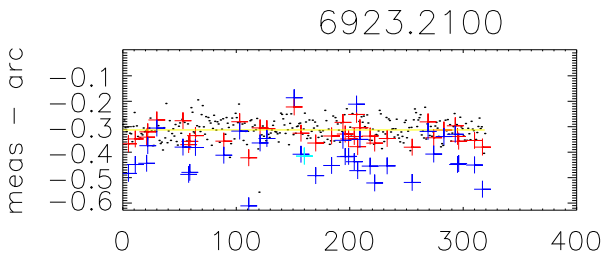

PLATE=2674 MJD=54097 Extraction chi^2 for sdR−r2−00042253.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
0
500
1000
1500
2000
Row number

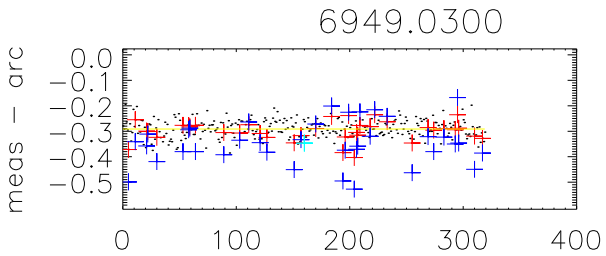

6300.3040
off: -0.40
sig: 0.003
6363.7760
off: -0.37
sig: 0.006
6553.6100
off: -0.48
sig: 0.023
6923.2100
off: -0.42
sig: 0.014
6949.0300
off: -0.35
sig: 0.014
7571.7500
off: -0.34
sig: 0.010
7794.1200
off: -0.41
sig: 0.005
7821.5100
off: -0.37
sig: 0.005
8399.1600
off: -0.34
sig: 0.004
8430.1700
off: -0.33
sig: 0.004
8885.8300
off: -0.31
sig: 0.004
8919.6100
off: -0.32
sig: 0.004

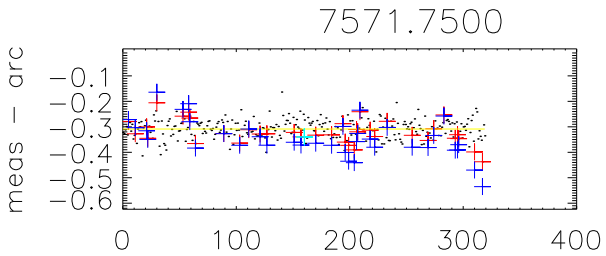

6300.3040
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

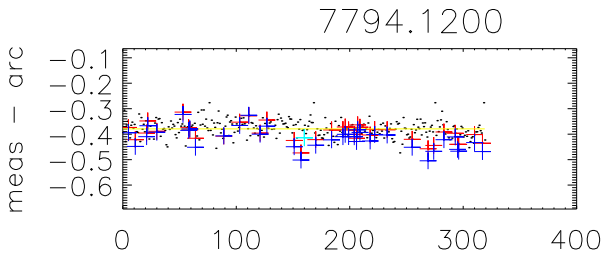

6363.7760
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

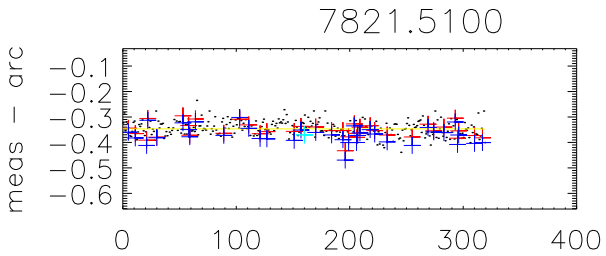

6553.6100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

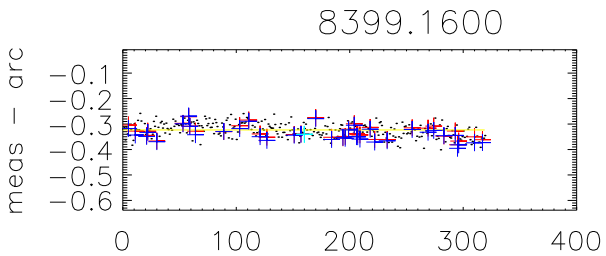

6923.2100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

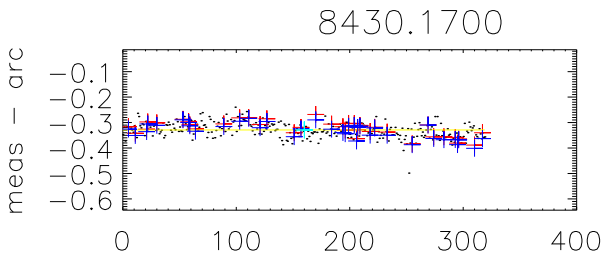

6949.0300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

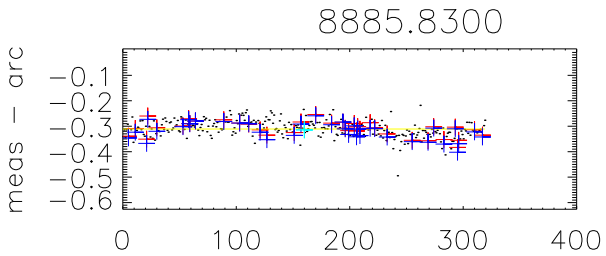

7571.7500
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

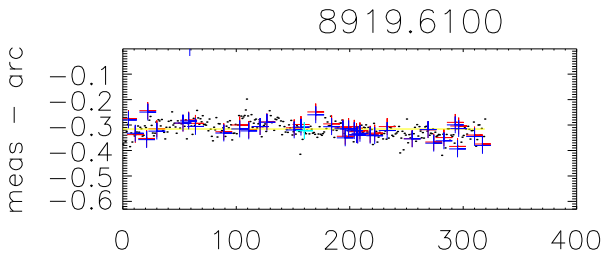

7794.1200
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

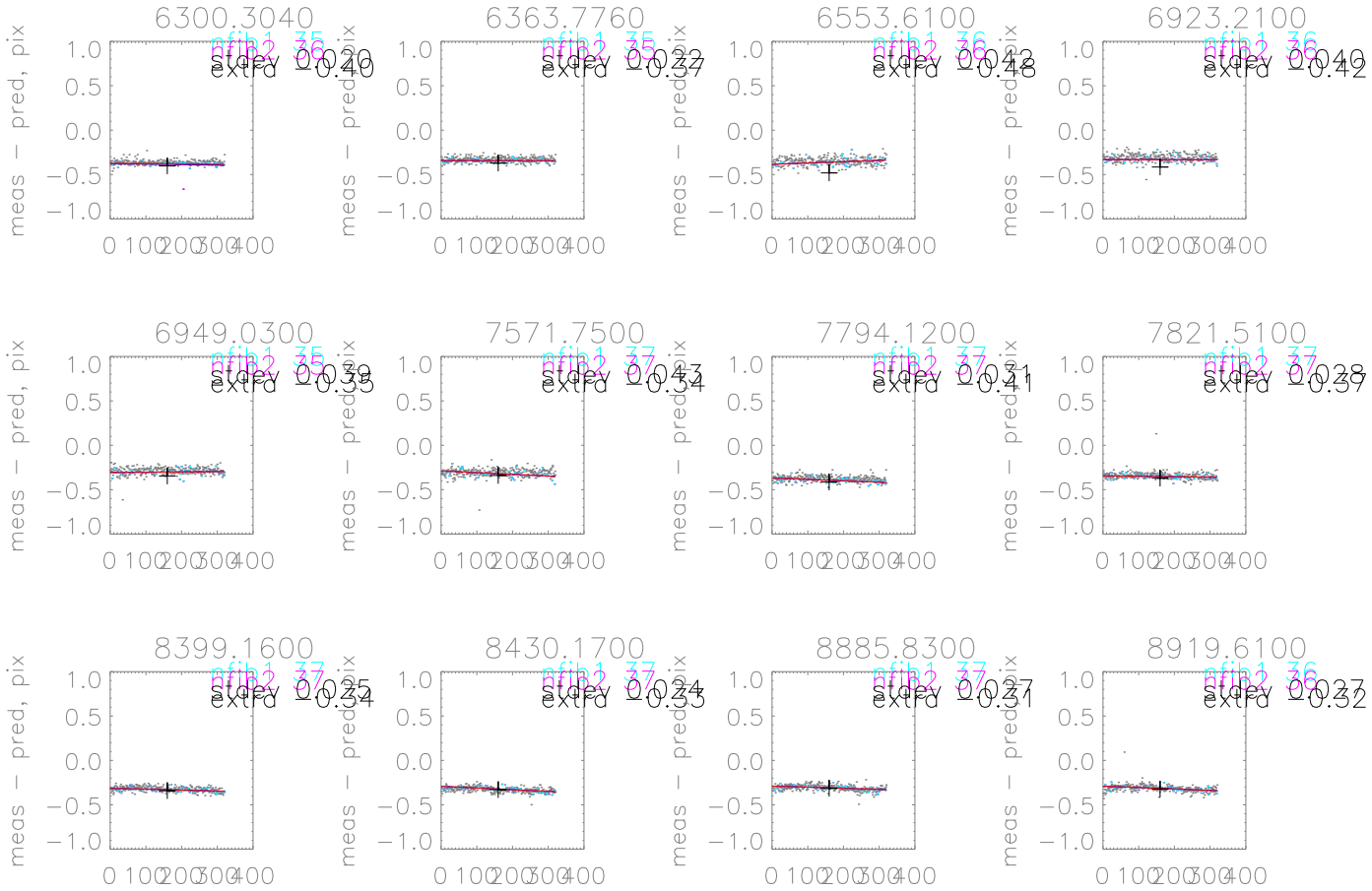

7821.5100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

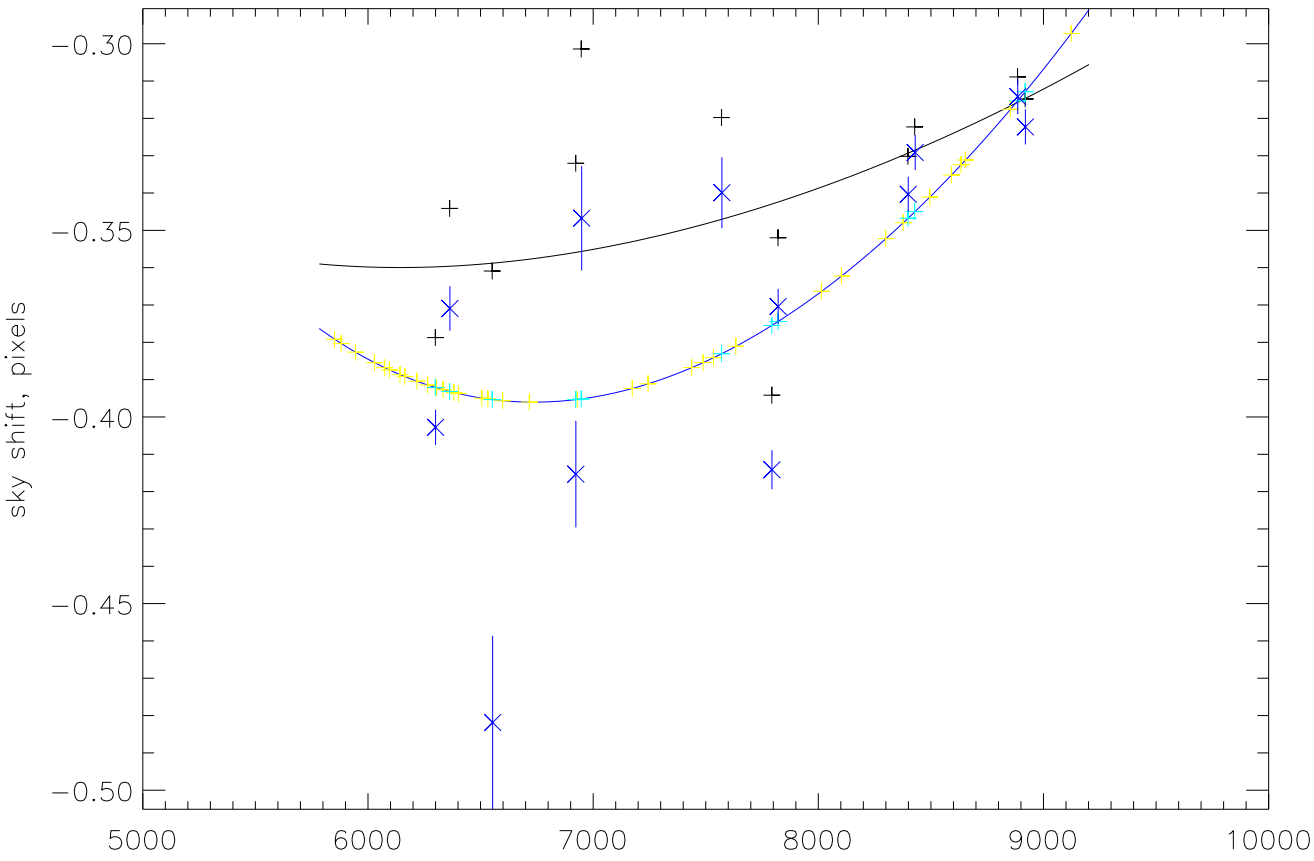

8399.1600
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400


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

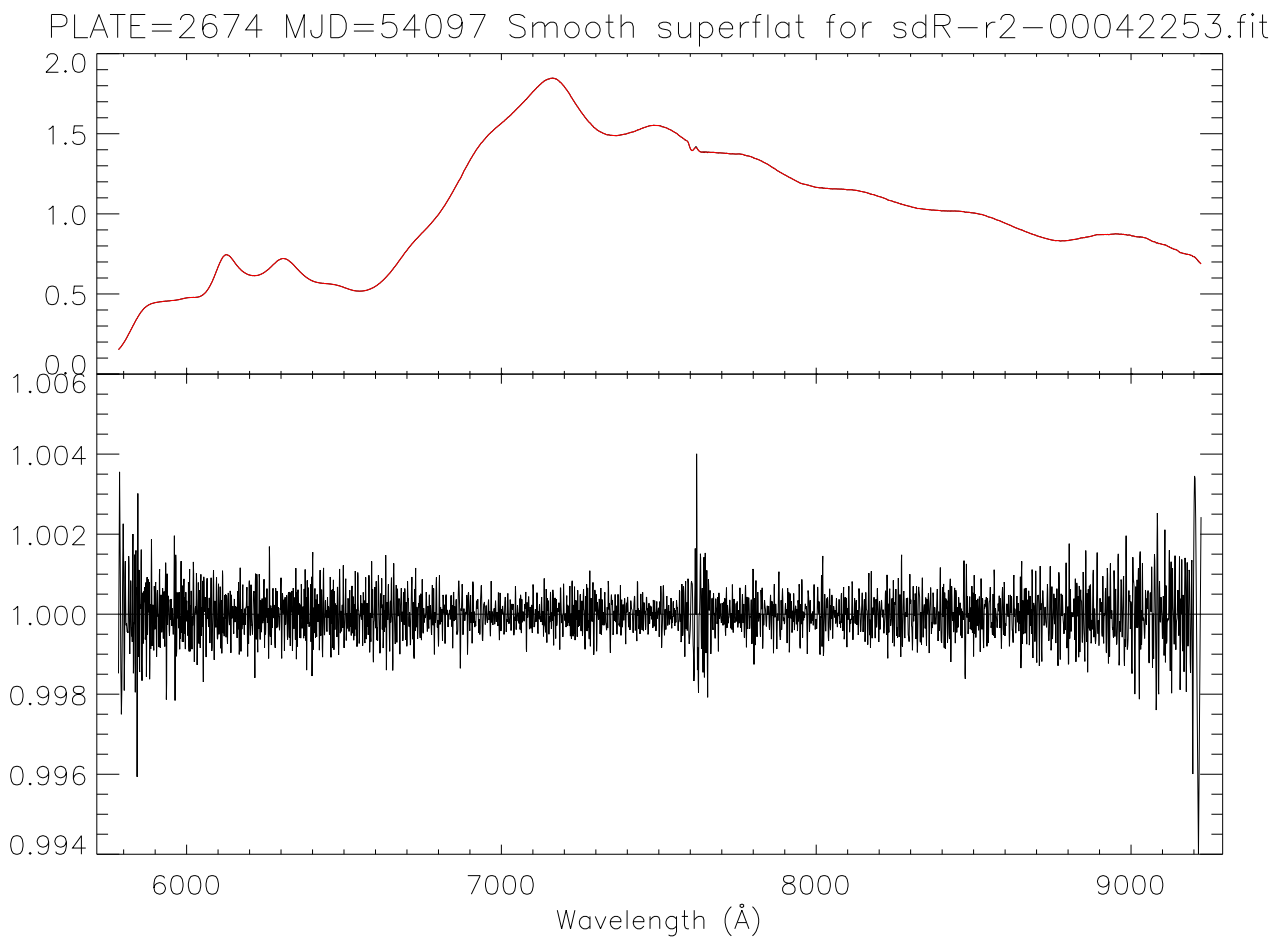

8885.8300
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

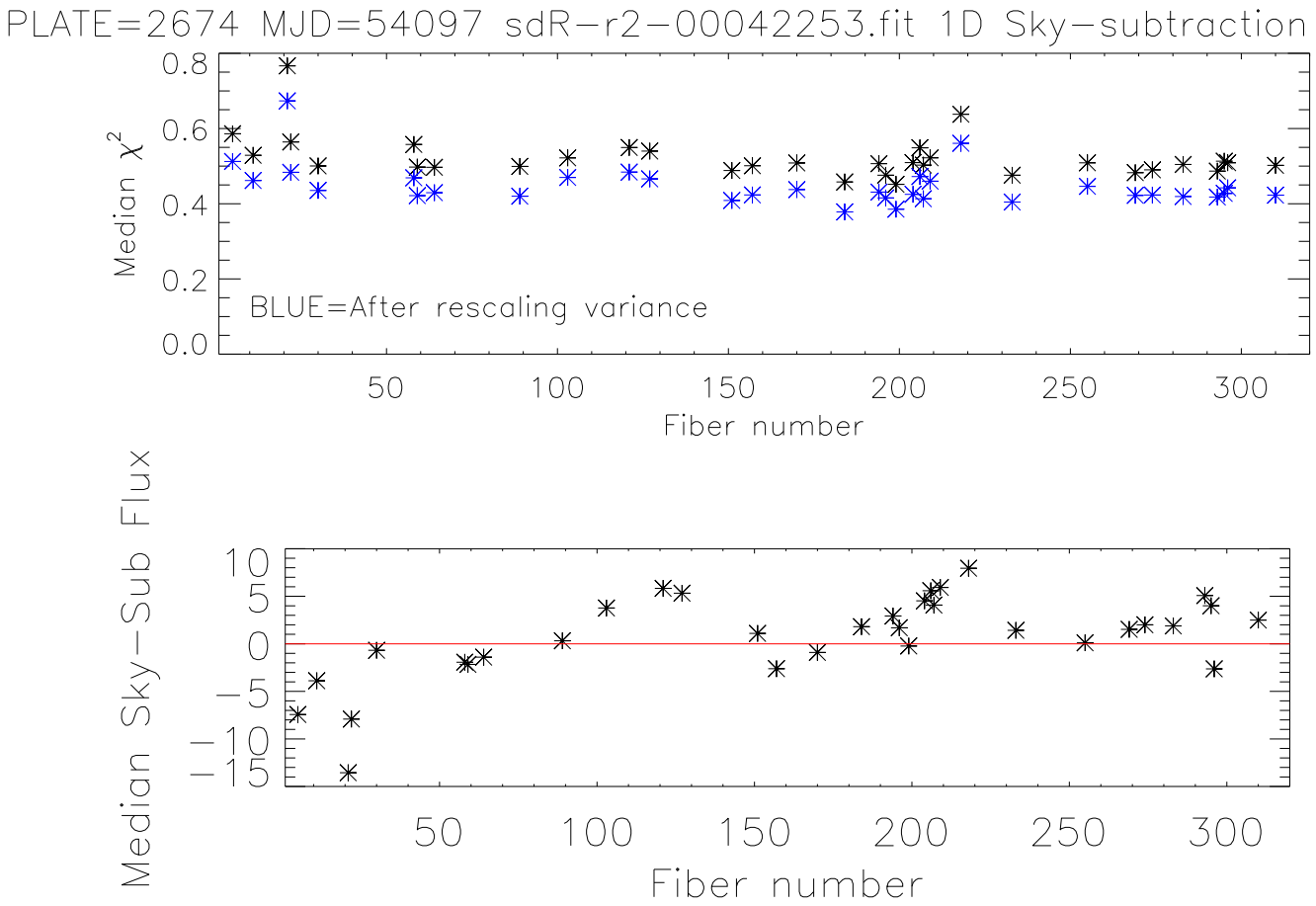

8919.6100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

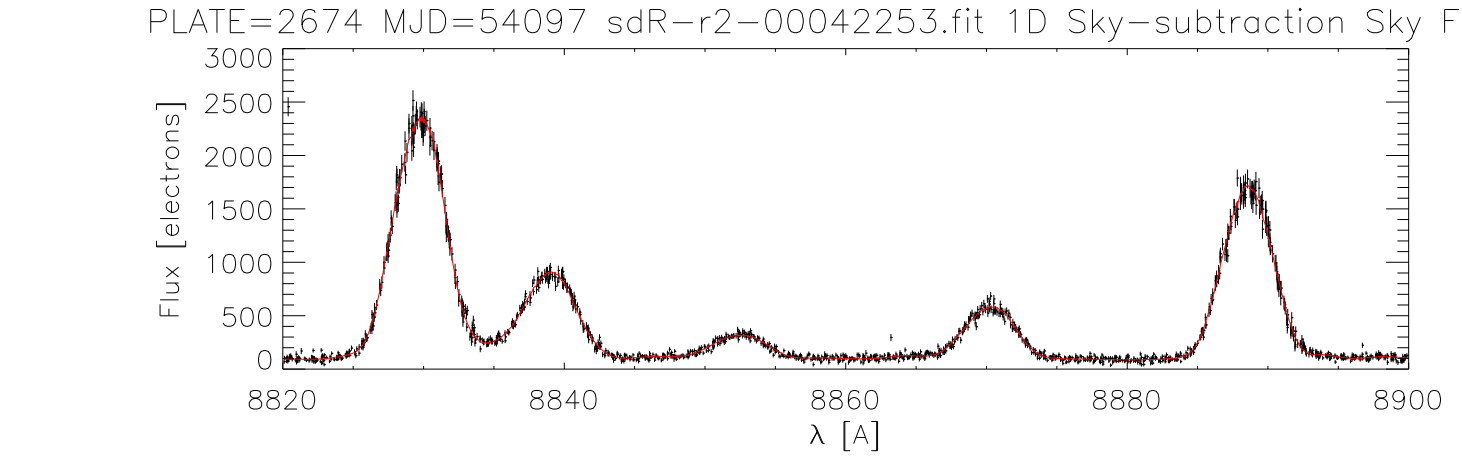

6300.3040
mfib1 35
mfib2 36
stdev 0.020
extra −0.40
6363.7760
mfib1 35
mfib2 36
stdev 0.022
extra −0.37
6553.6100
mfib1 36
mfib2 36
stdev 0.042
extra −0.48
6923.2100
mfib1 36
mfib2 36
stdev 0.040
extra −0.42
6949.0300
mfib1 35
mfib2 36
stdev 0.039
extra −0.35
7571.7500
mfib1 37
mfib2 37
stdev 0.043
extra −0.34
7794.1200
mfib1 37
mfib2 37
stdev 0.031
extra −0.41
7821.5100
mfib1 37
mfib2 37
stdev 0.028
extra −0.37
8399.1600
mfib1 37
mfib2 37
stdev 0.025
extra −0.34
8430.1700
mfib1 37
mfib2 37
stdev 0.024
extra −0.33
8885.8300
mfib1 37
mfib2 37
stdev 0.027
extra −0.31
8919.6100
mfib1 36
mfib2 36
stdev 0.027
extra −0.32
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

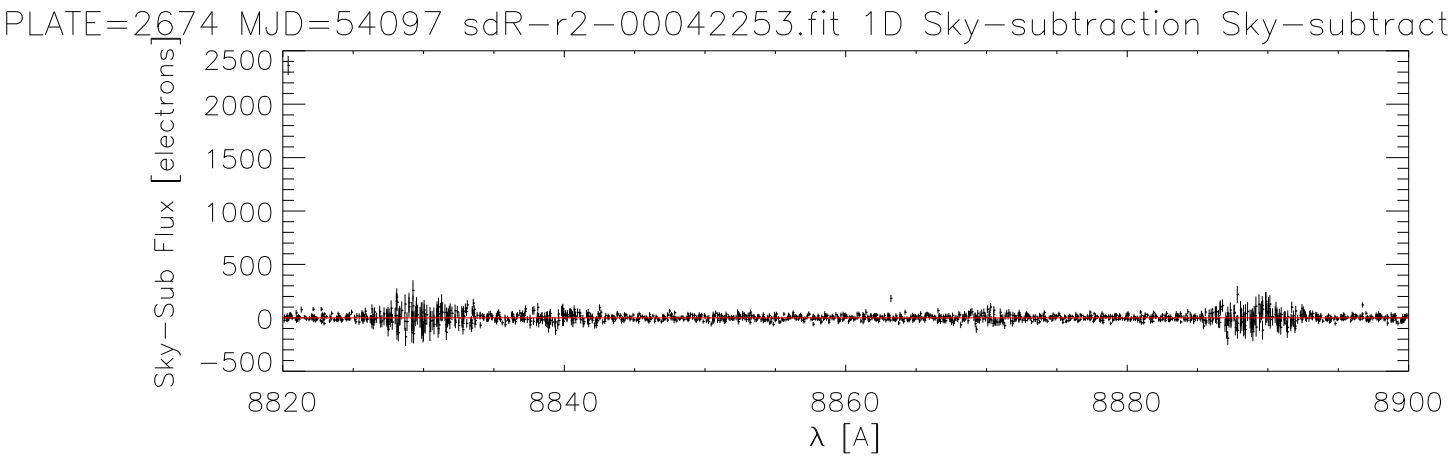

−0.30
−0.35
−0.40
−0.45
−0.50
sky shift, pixels
5000
6000
7000
8000
9000
10000

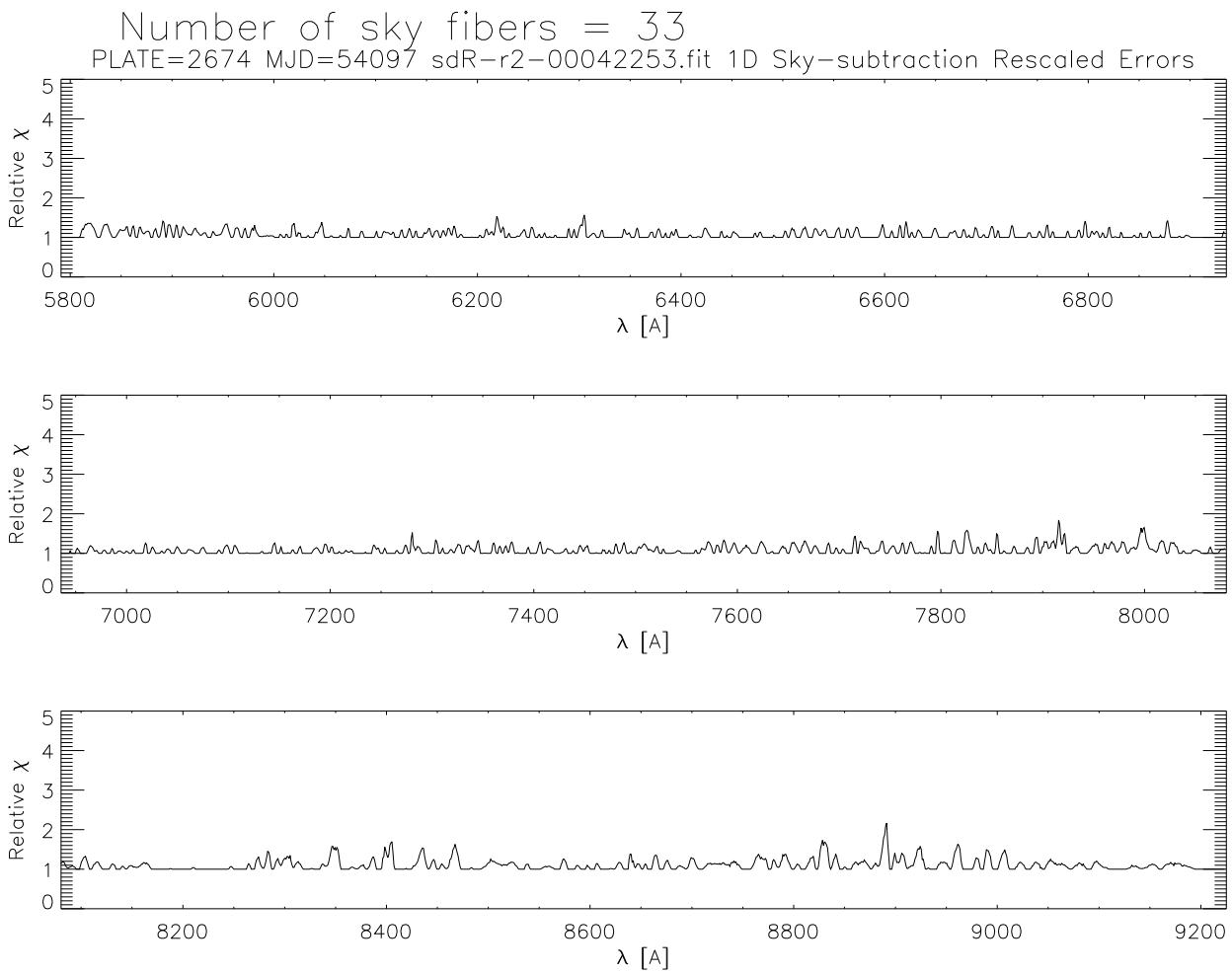
es= 0.0000

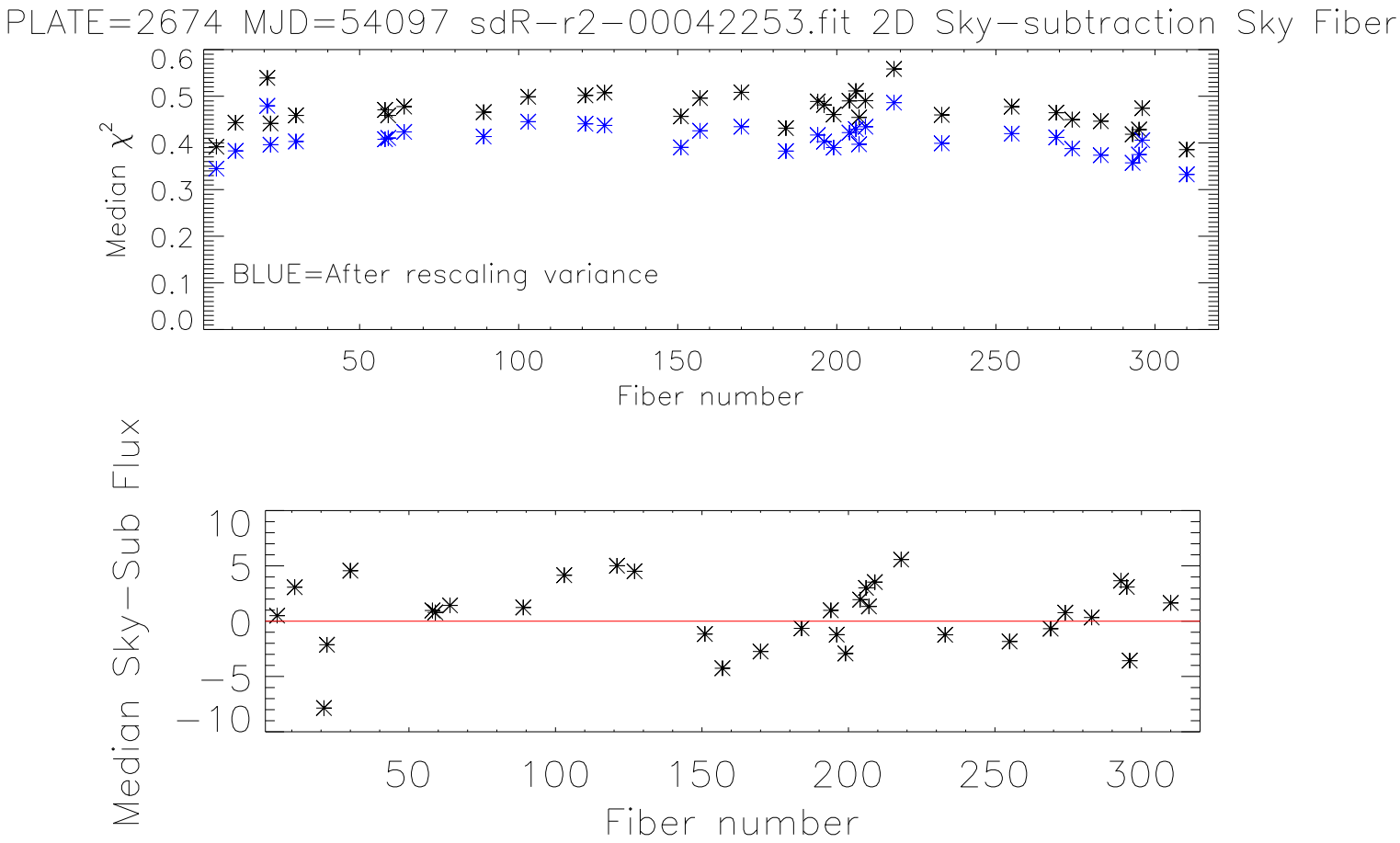

PLATE=2674 MJD=54097 Smooth superflat for sdR-r2-00042253.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
6000
7000
8000
9000
Wavelength (Å)

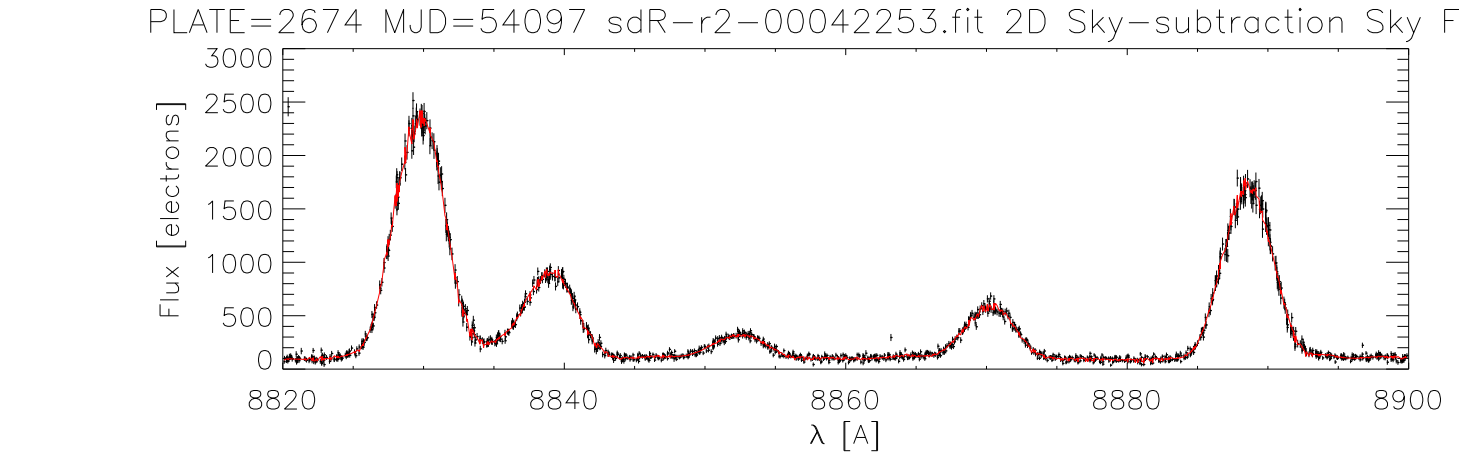

PLATE=2674 MJD=54097 sdR-r2-00042253.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

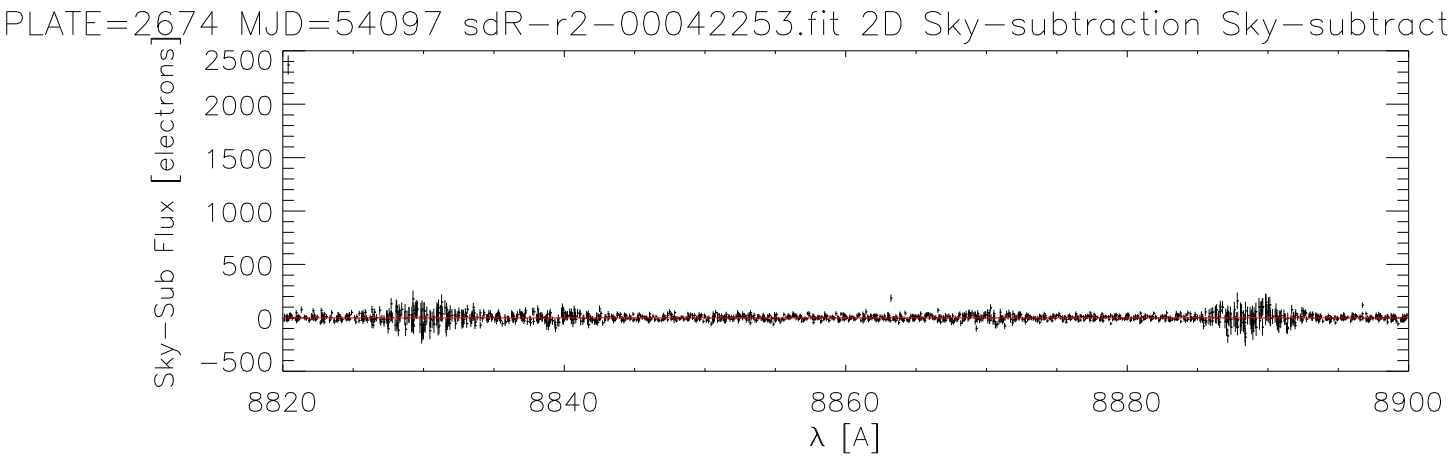

PLATE=2674 MJD=54097 sdR-r2-00042253.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

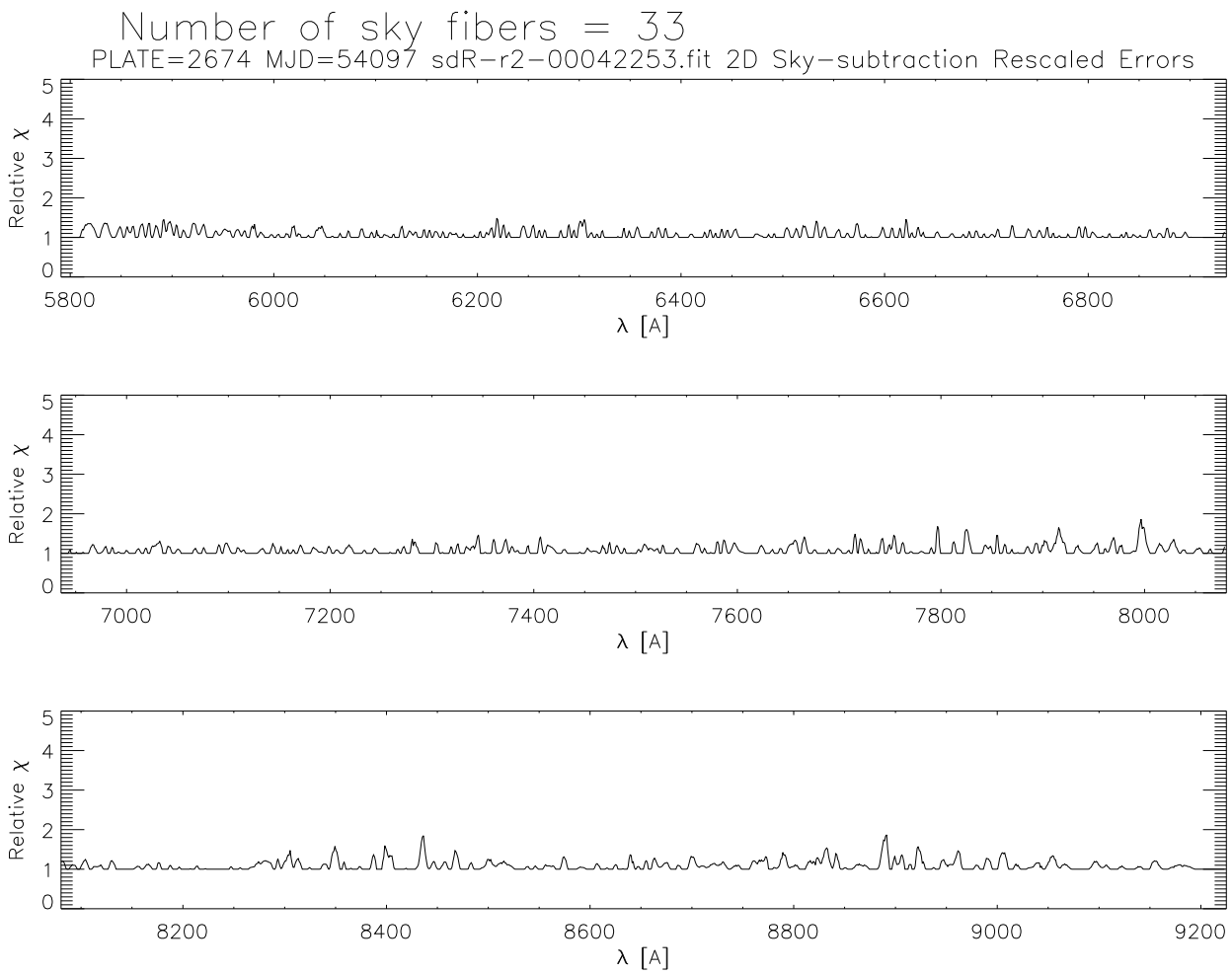

PLATE=2674 MJD=54097 sdR-r2-00042253.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2500
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

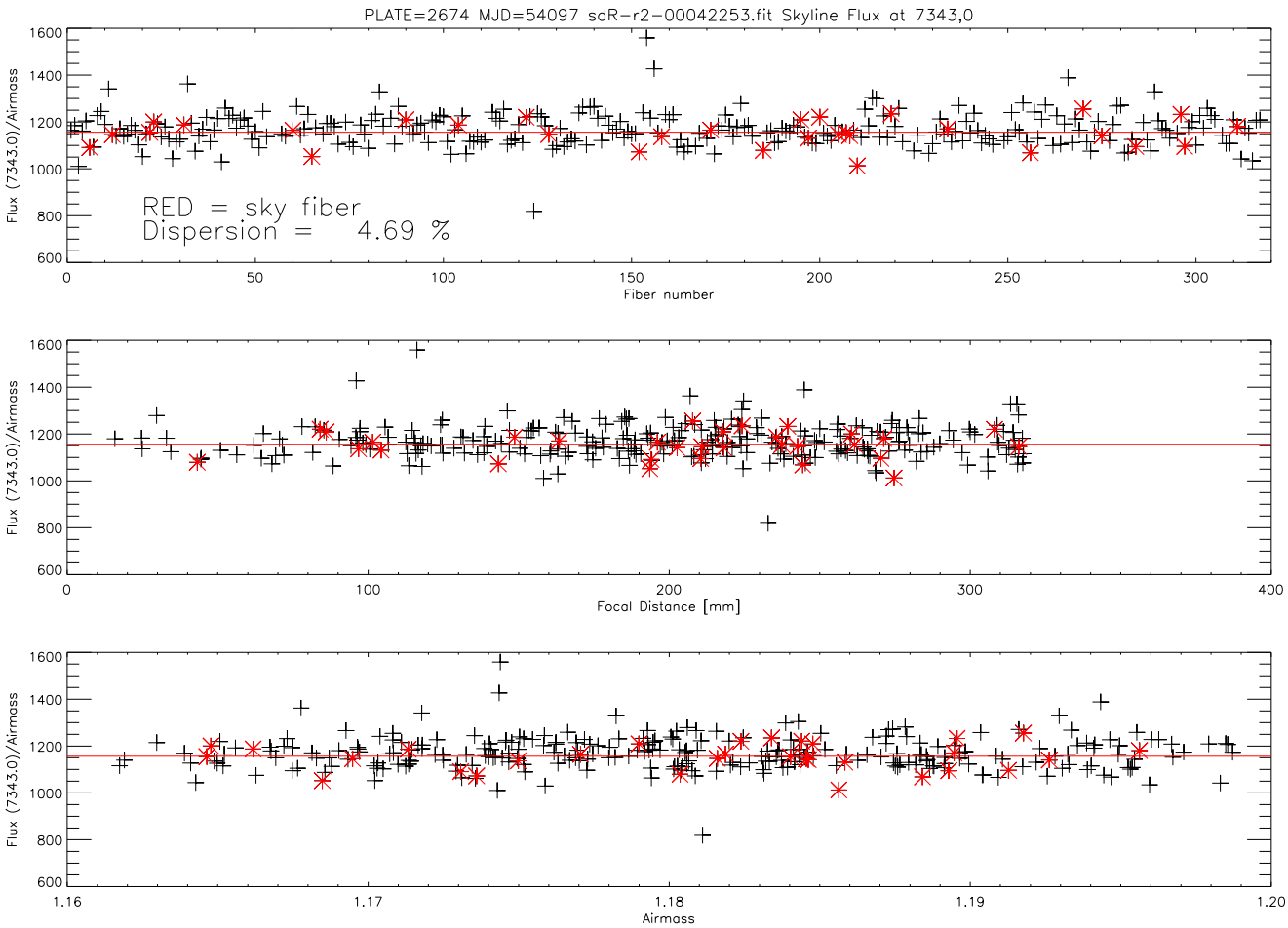

Number of sky fibers = 33
PLATE=2674 MJD=54097 sdR-r2-00042253.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

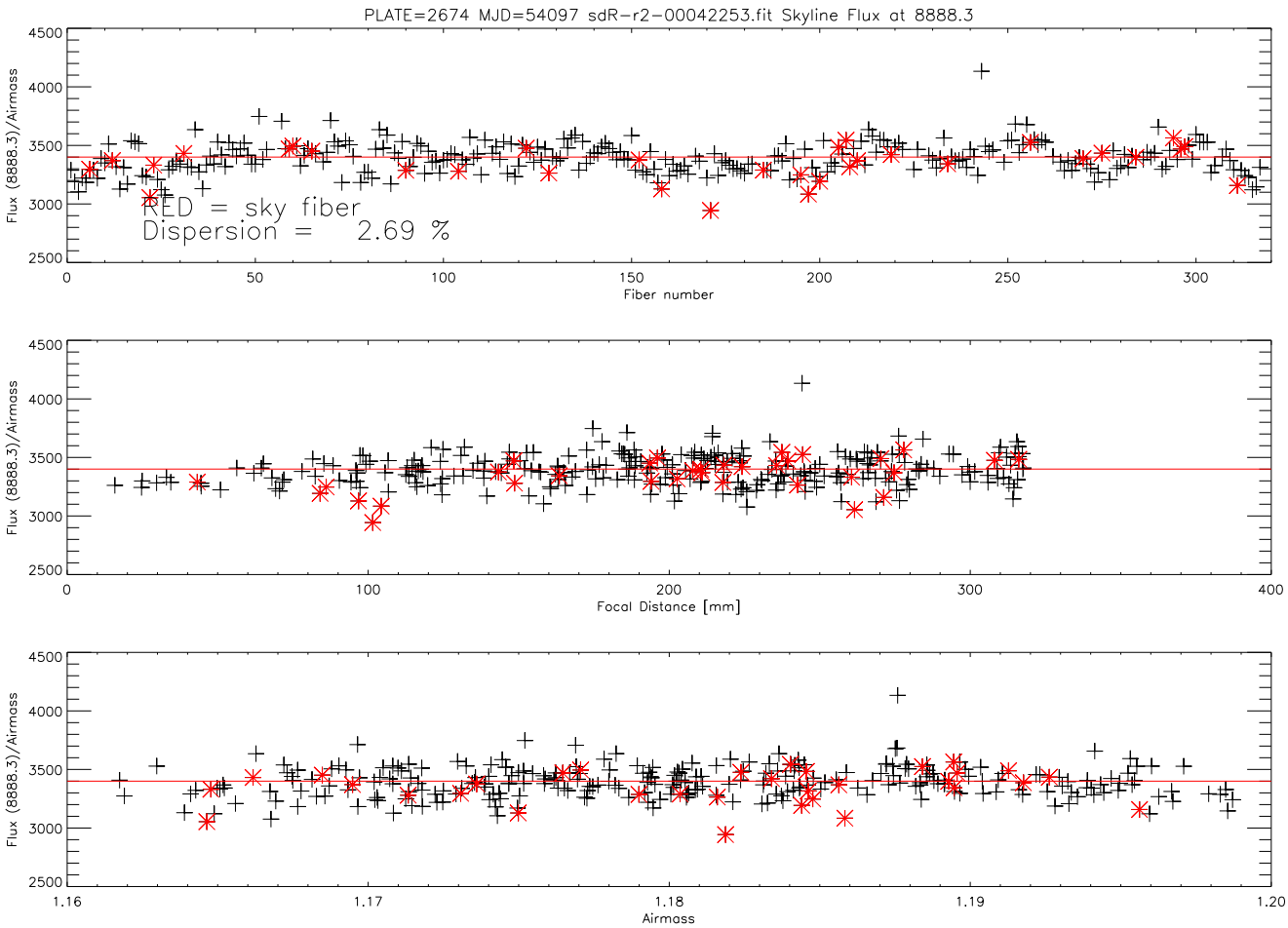

PLATE=2674 MJD=54097 sdR-r2-00042253.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

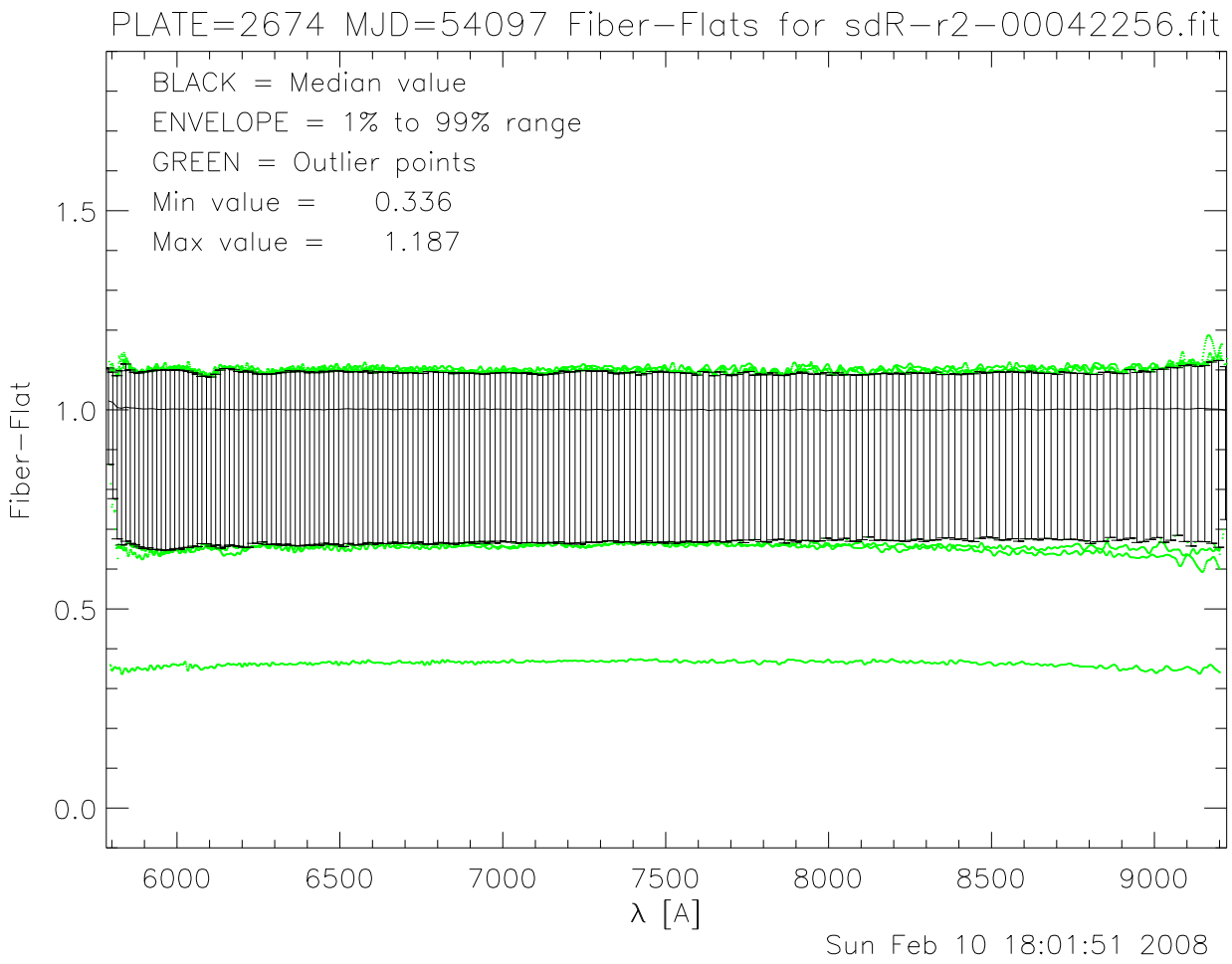

PLATE=2674 MJD=54097 sdR-r2-00042253.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

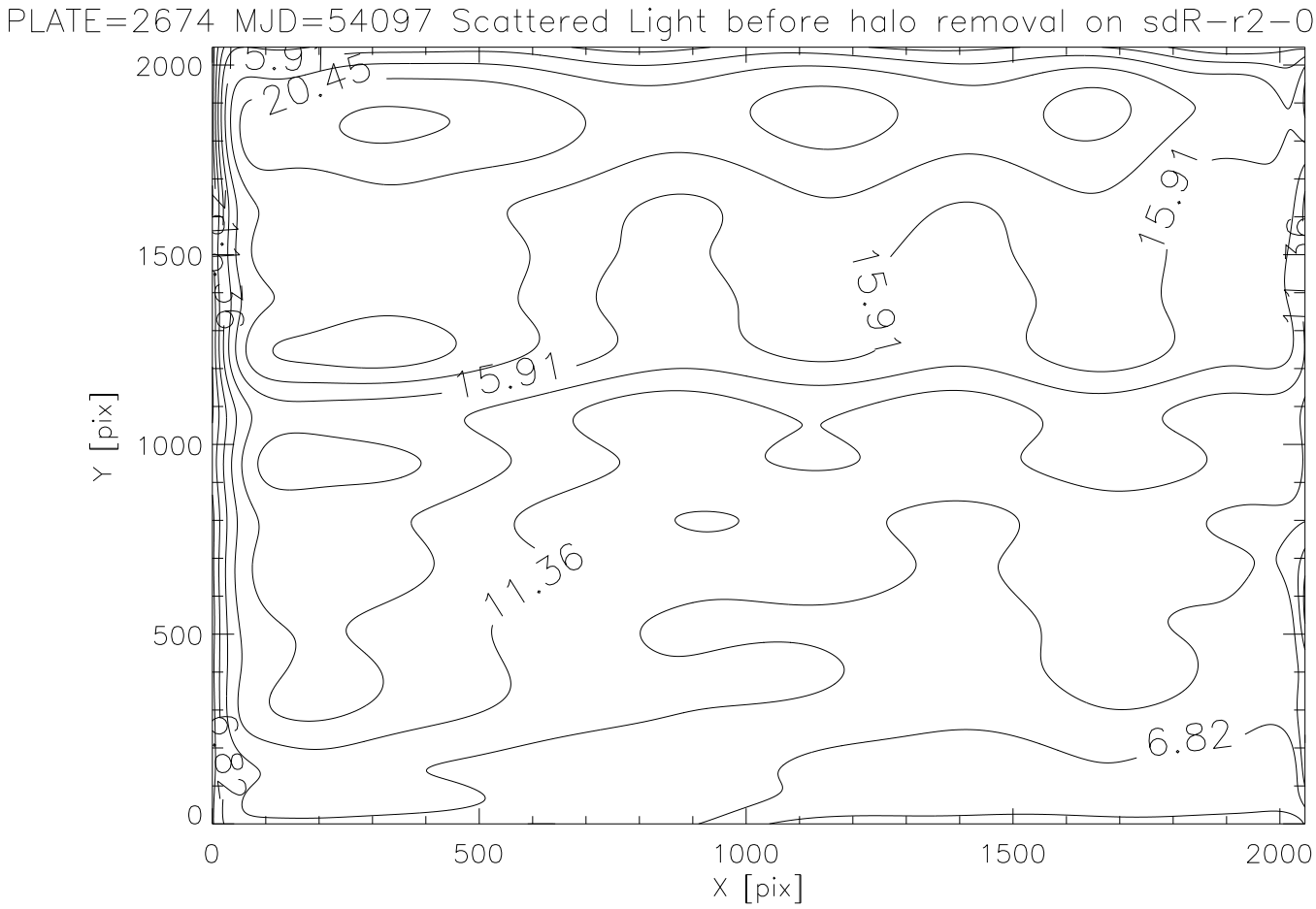

PLATE=2674 MJD=54097 sdR-r2-00042253.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2500
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

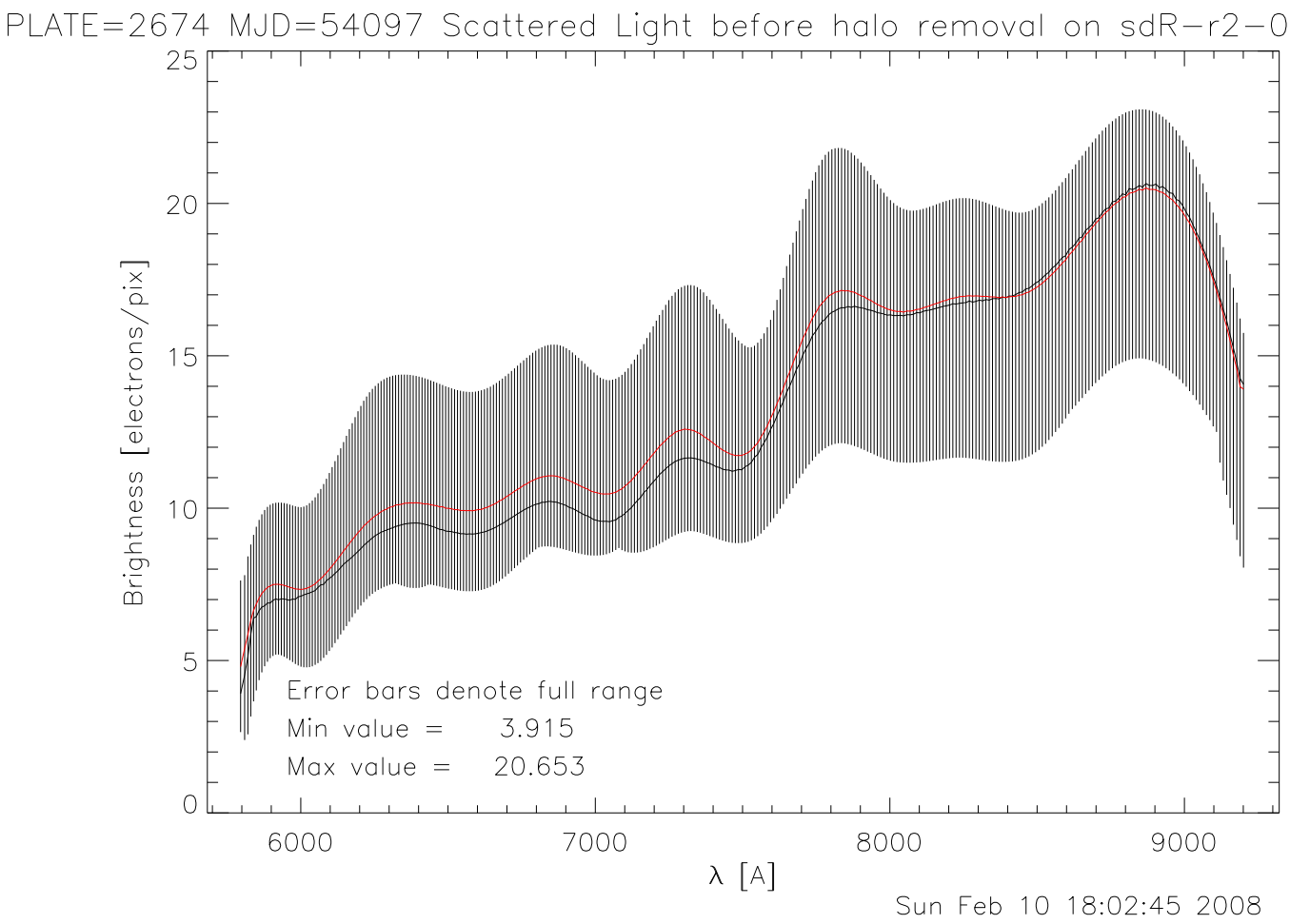

Number of sky fibers = 33
PLATE=2674 MJD=54097 sdR-r2-00042253.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

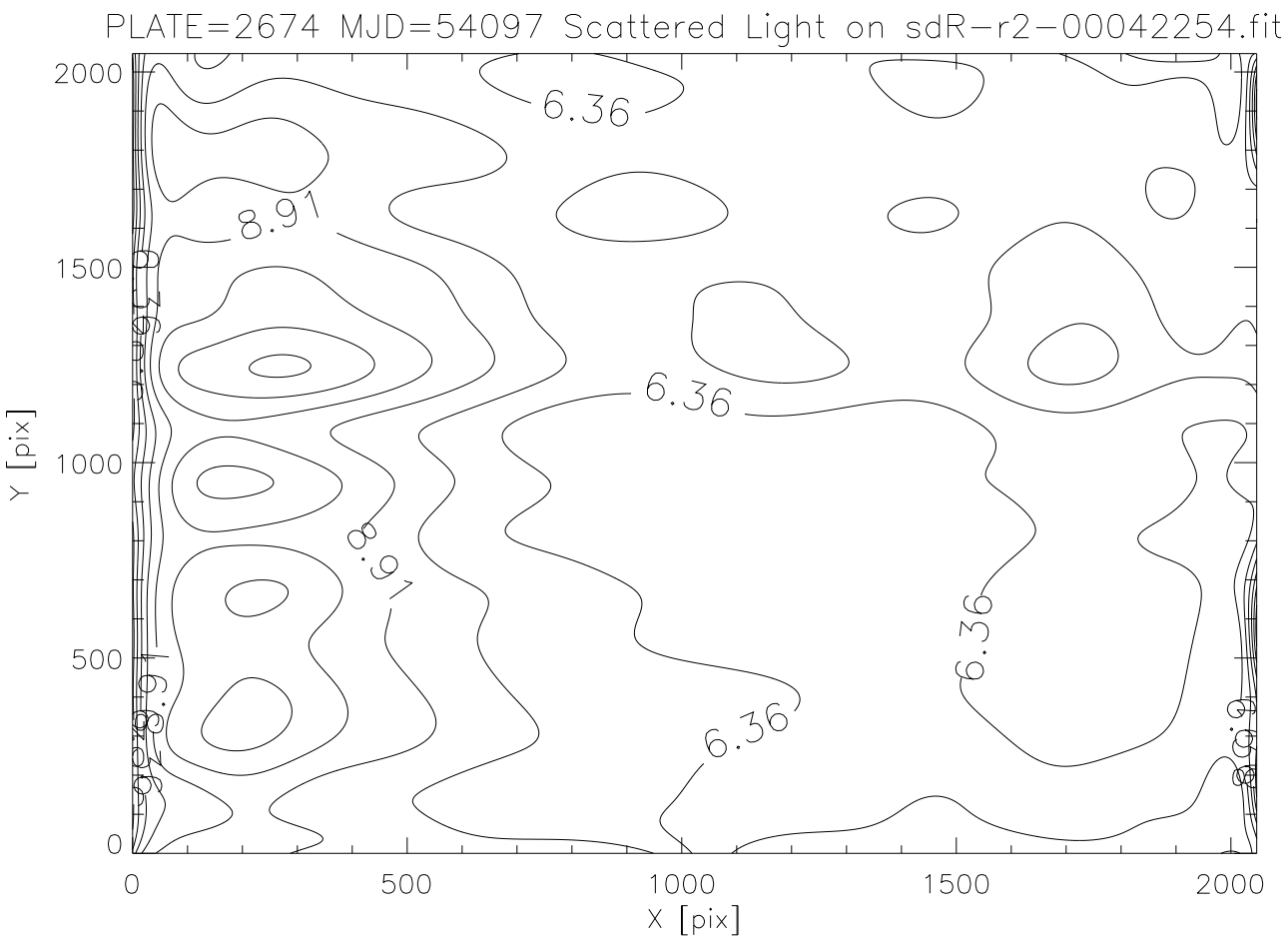

PLATE=2674 MJD=54097 sdR-r2-00042253.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 4.69 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

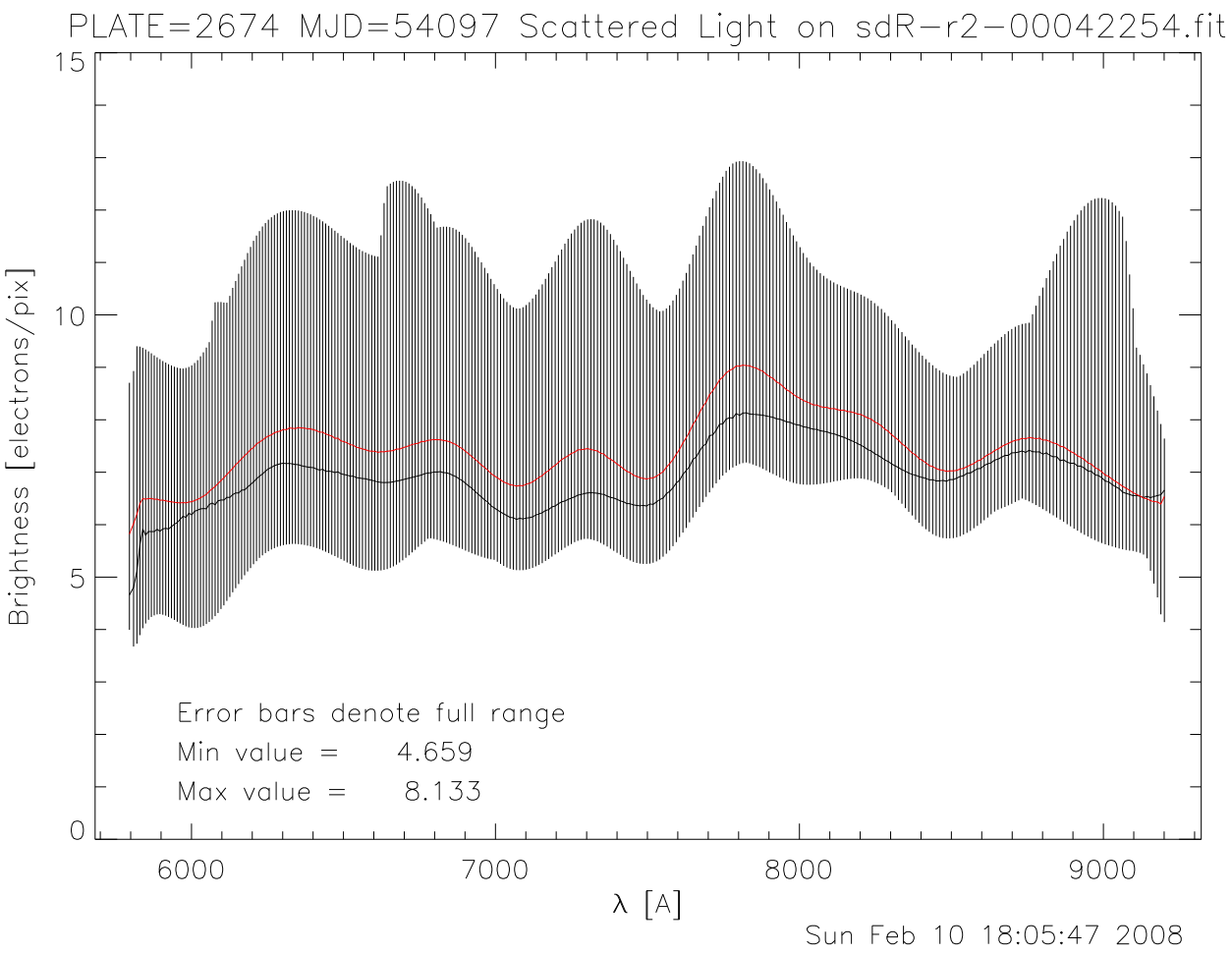

PLATE=2674 MJD=54097 sdR-r2-00042253.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.69 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

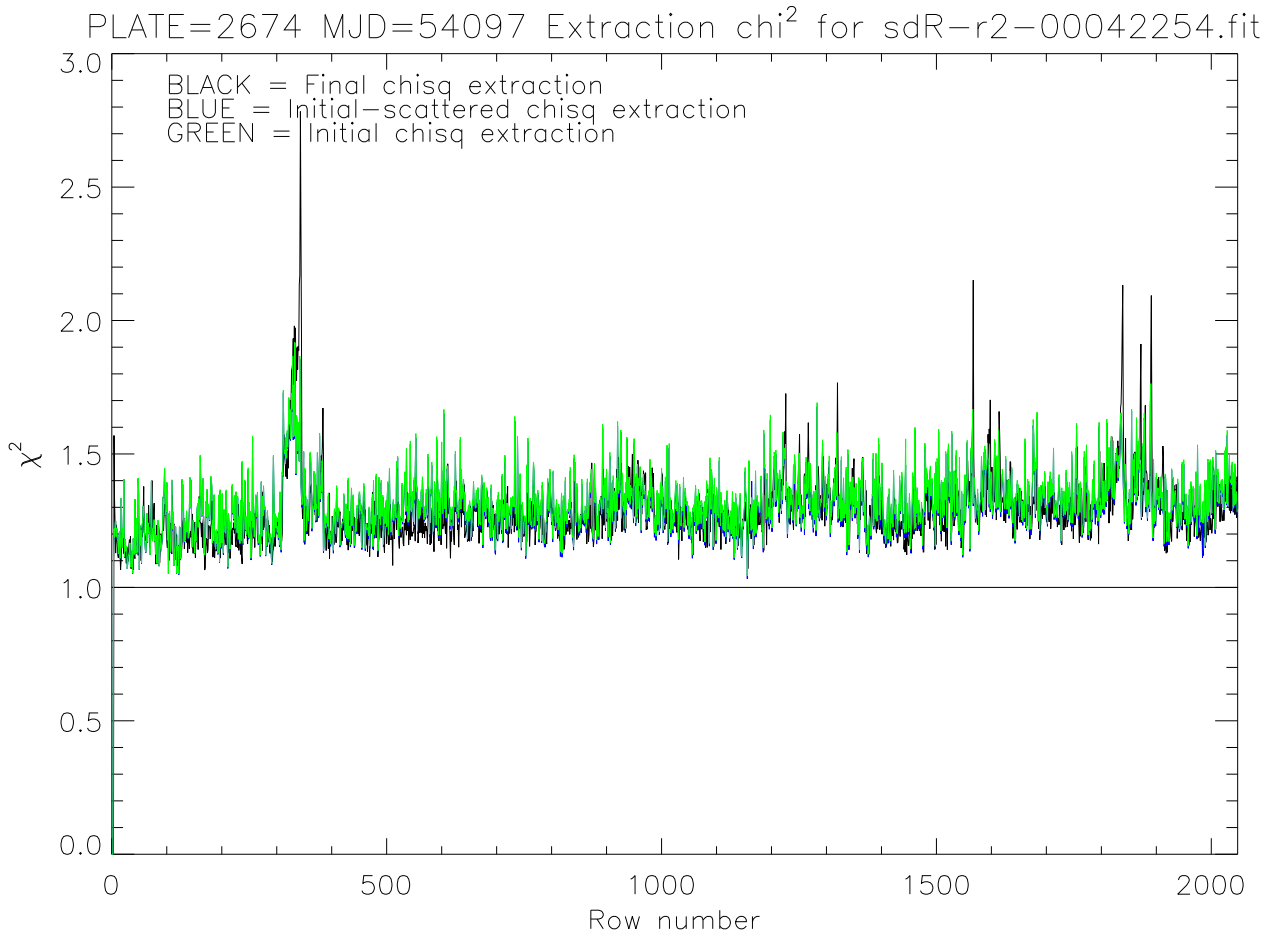

PLATE=2674 MJD=54097 Fiber−Flats for sdR−r2−00042256.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.336
Max value = 1.187
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sun Feb 10 18:01:51 2008

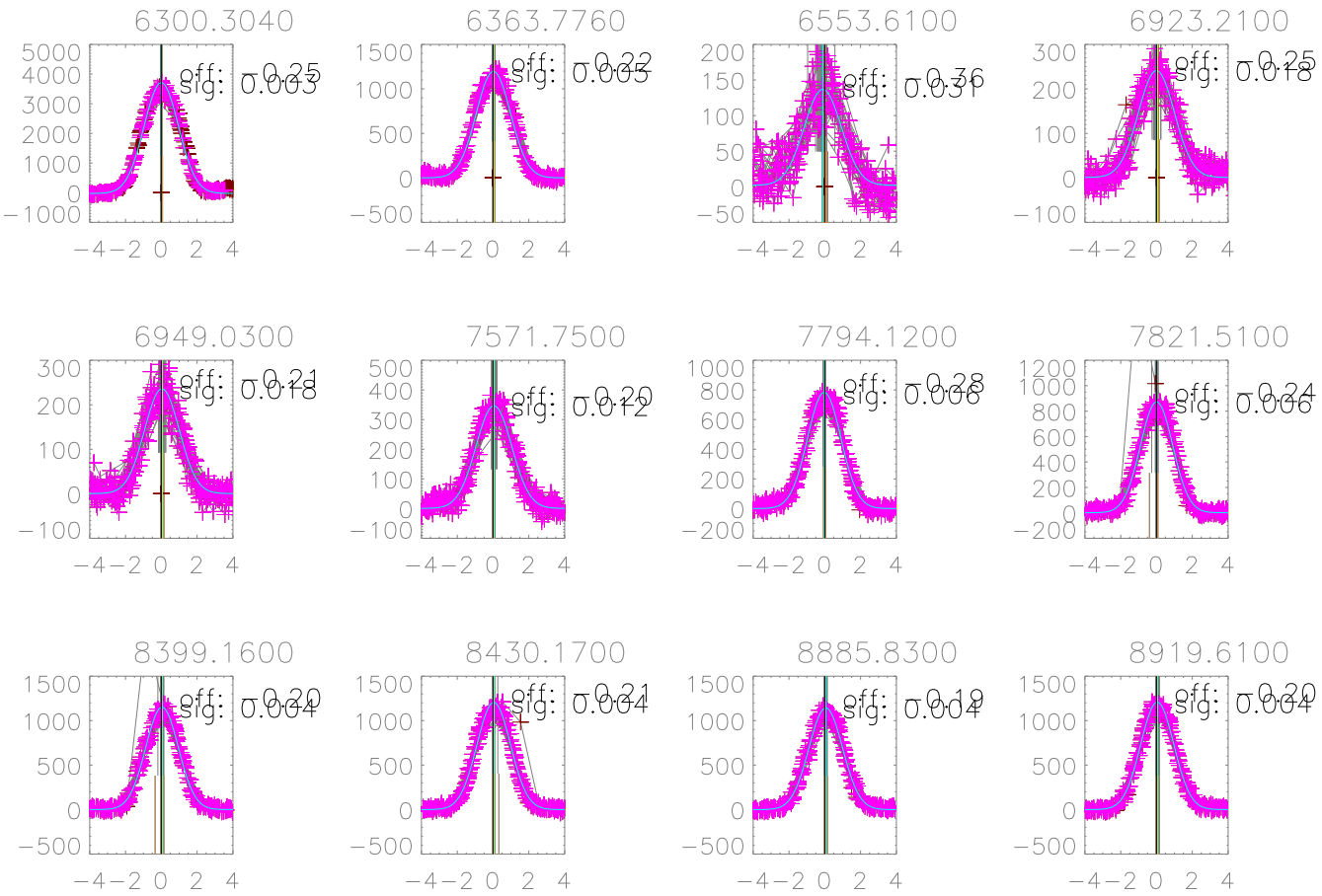

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR−r2−00042254.fi
20.45
15.91
15.91
15.91
11.36
6.82
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

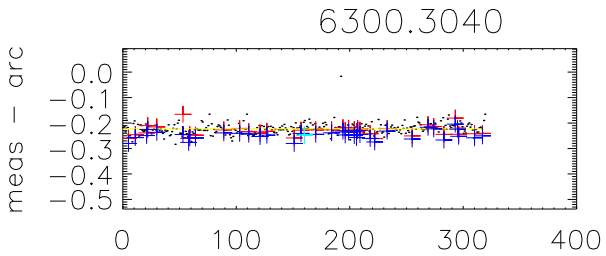

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR-r2-00042254.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.915
Max value = 20.653
Sun Feb 10 18:02:45 2008

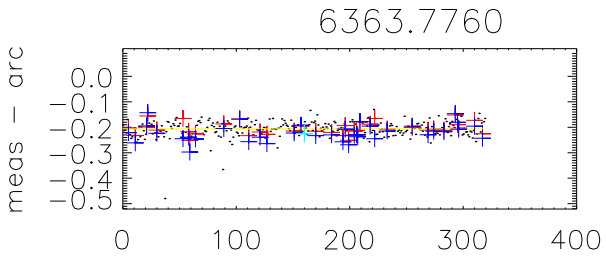

PLATE=2674 MJD=54097 Scattered Light on sdR-r2-00042254.fit
6.36
8.91
6.36
8.91
6.36
6.36
8.91
8.91
Y [pix]
X [pix]
0
500
1000
1500
2000

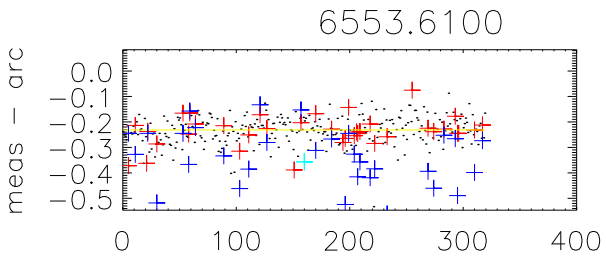

PLATE=2674 MJD=54097 Scattered Light on sdR-r2-00042254.fit
Brightness [electrons/pix]
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 4.659
Max value = 8.133
Sun Feb 10 18:05:47 2008

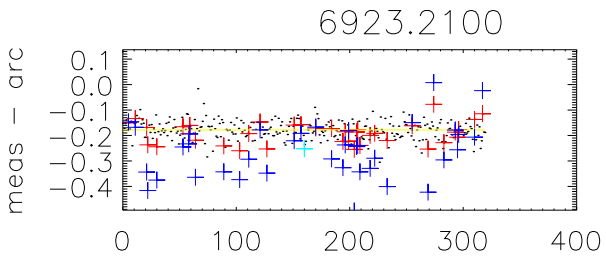

PLATE=2674 MJD=54097 Extraction chi^2 for sdR−r2−00042254.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

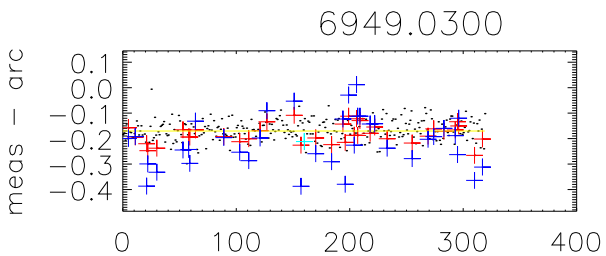

6300.3040
off: σ 0.25
sig: σ 0.003
6363.7760
off: σ 0.22
sig: σ 0.005
6553.6100
off: σ 0.36
sig: σ 0.031
6923.2100
off: σ 0.25
sig: σ 0.018
6949.0300
off: σ 0.21
sig: σ 0.018
7571.7500
off: σ 0.20
sig: σ 0.012
7794.1200
off: σ 0.28
sig: σ 0.006
7821.5100
off: σ 0.24
sig: σ 0.006
8399.1600
off: σ 0.20
sig: σ 0.004
8430.1700
off: σ 0.21
sig: σ 0.004
8885.8300
off: σ 0.19
sig: σ 0.004
8919.6100
off: σ 0.20
sig: σ 0.004

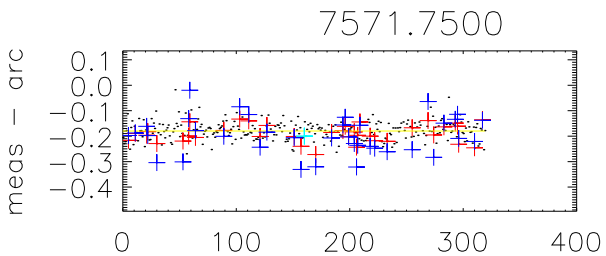

6300.3040
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

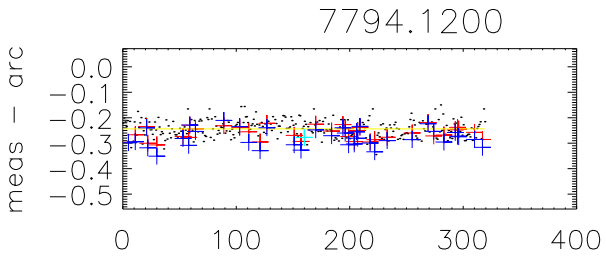

6363.7760
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

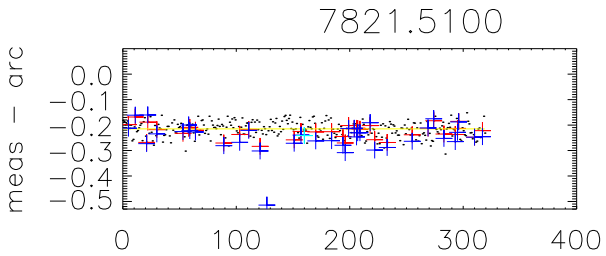

6553.6100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

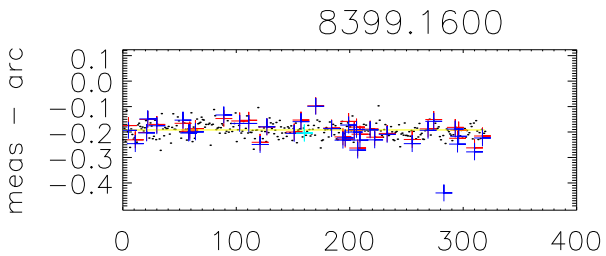

6923.2100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

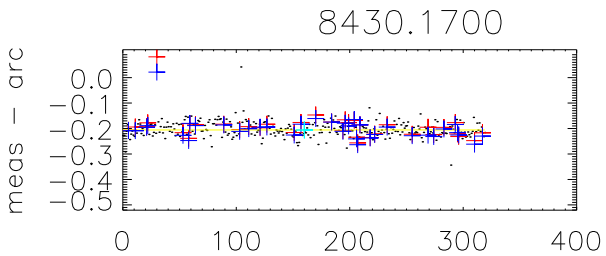

6949.0300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

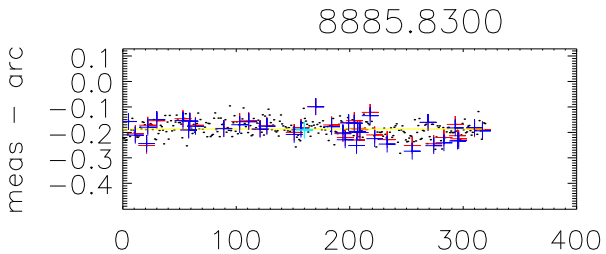

7571.7500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

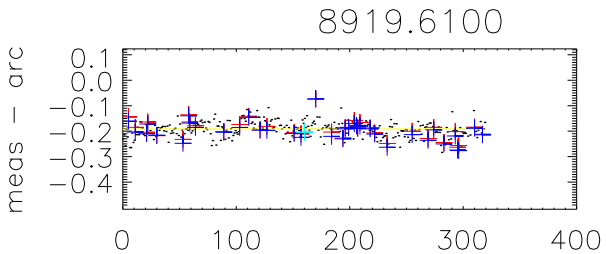

7794.1200
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

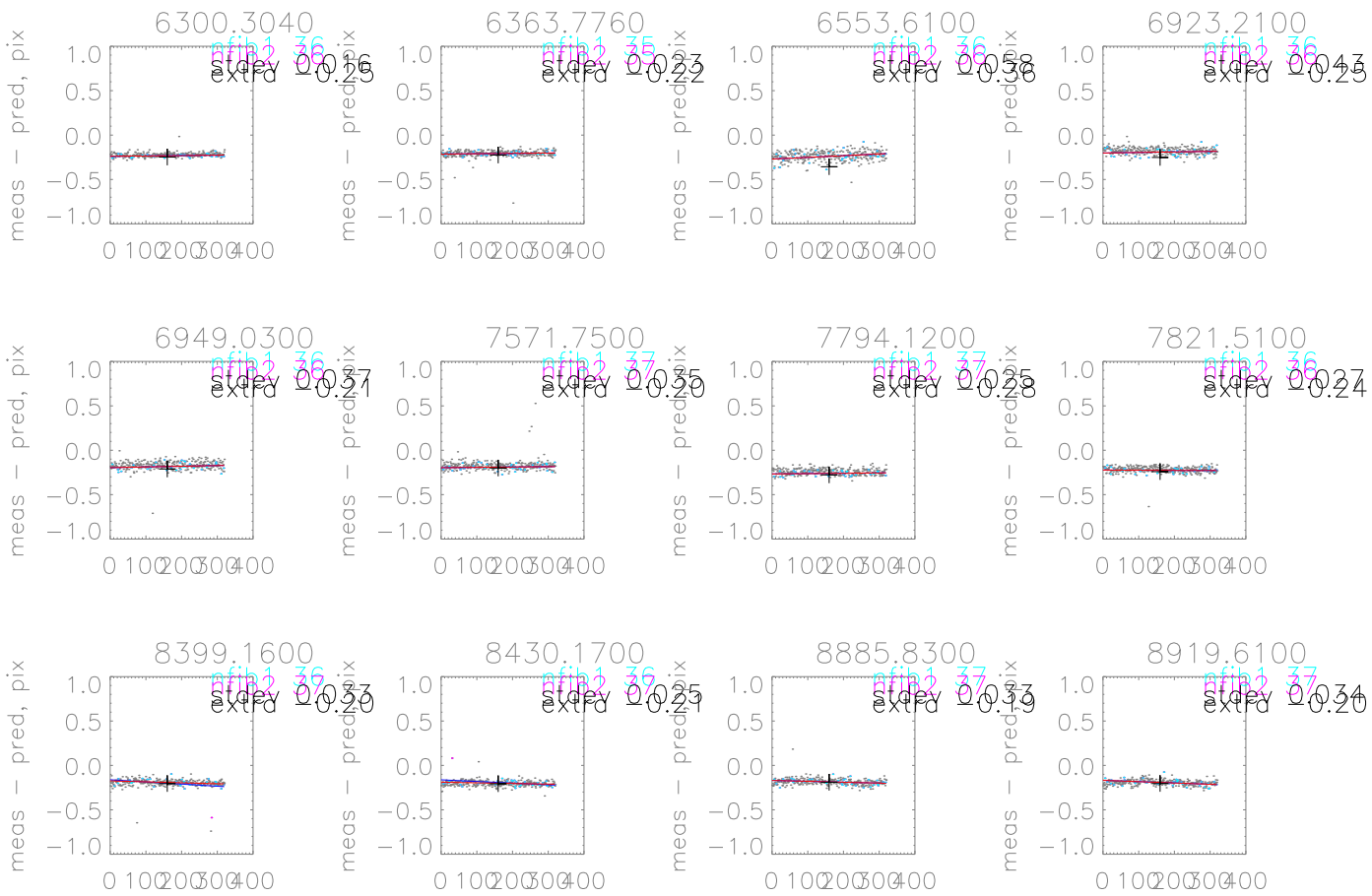

7821.5100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

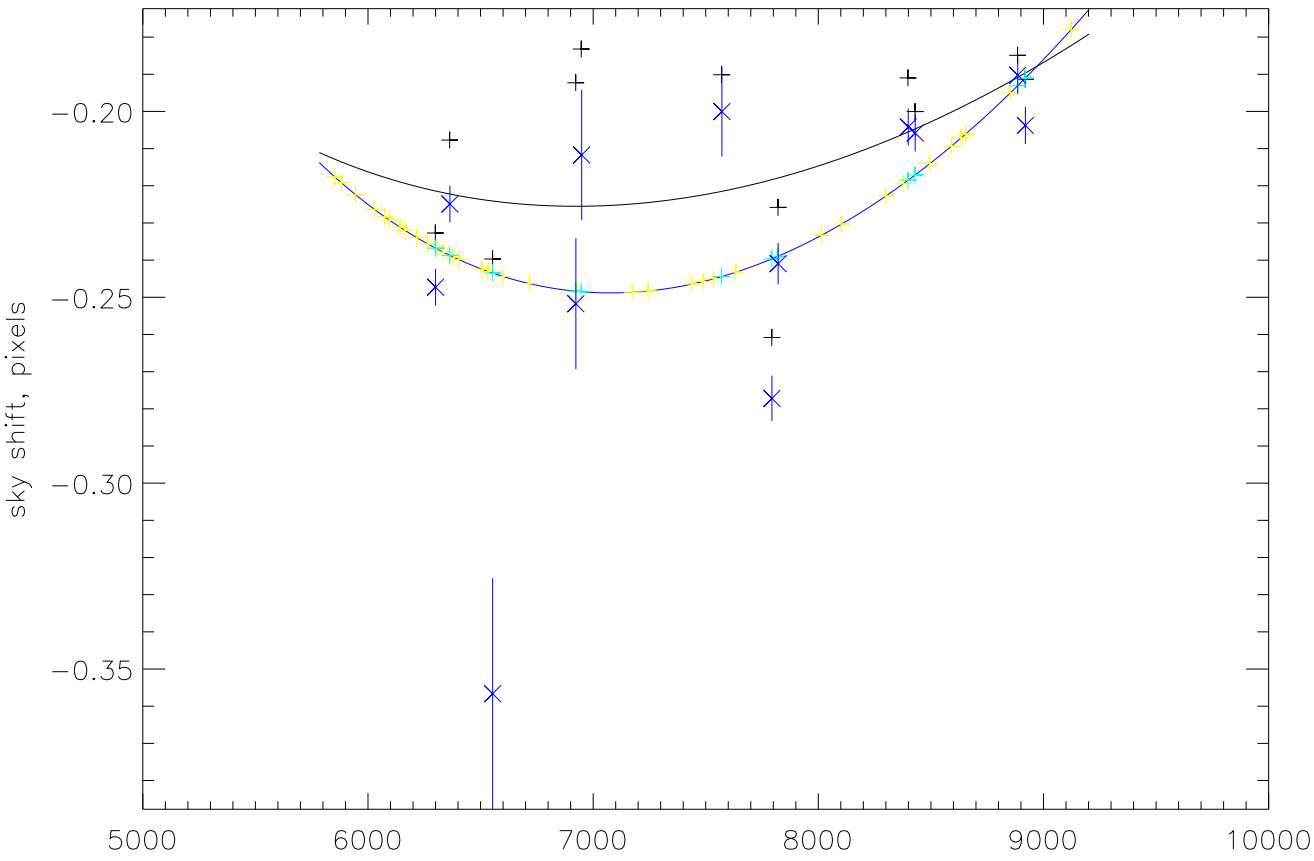

8399.1600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

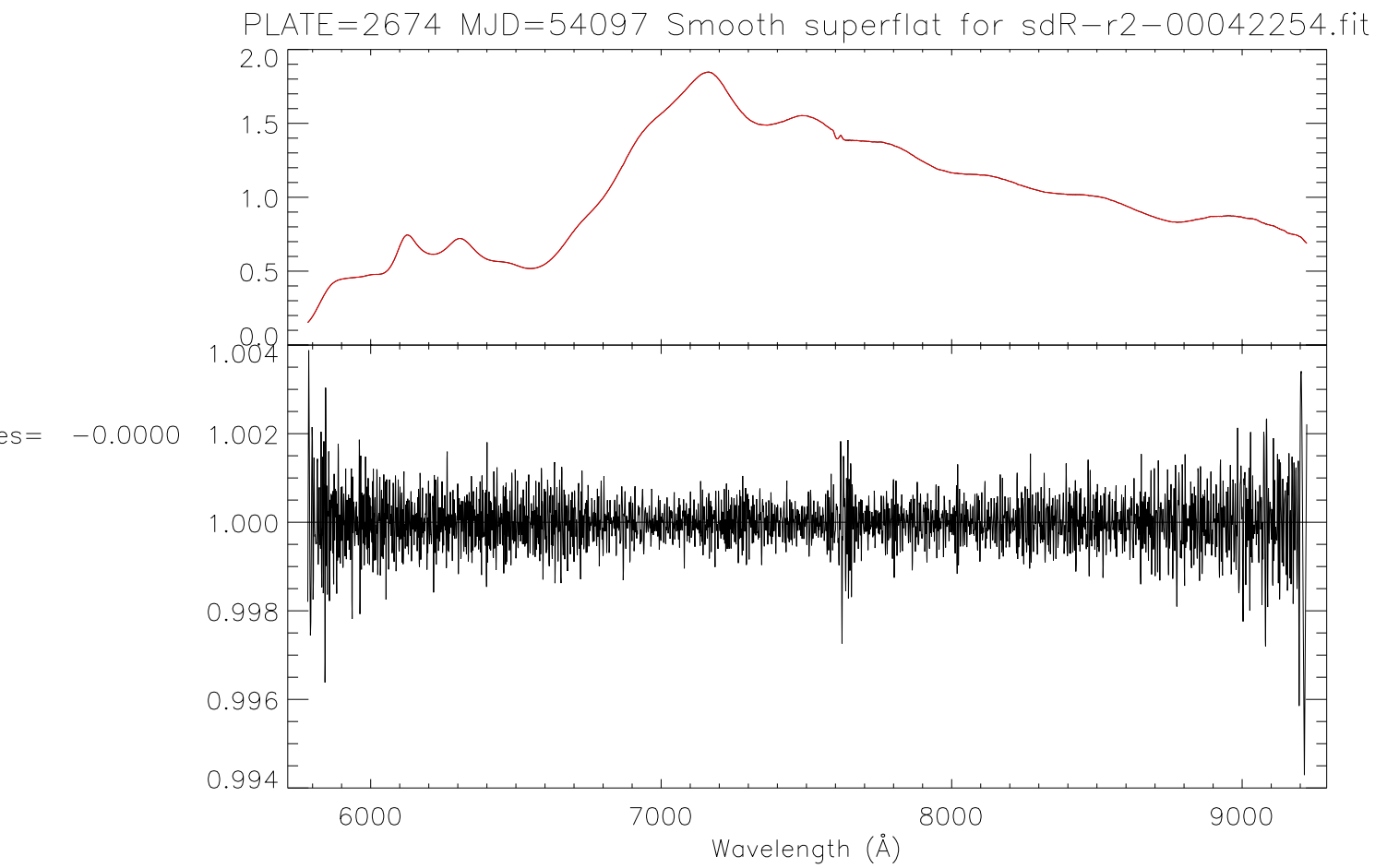

8430.1700
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

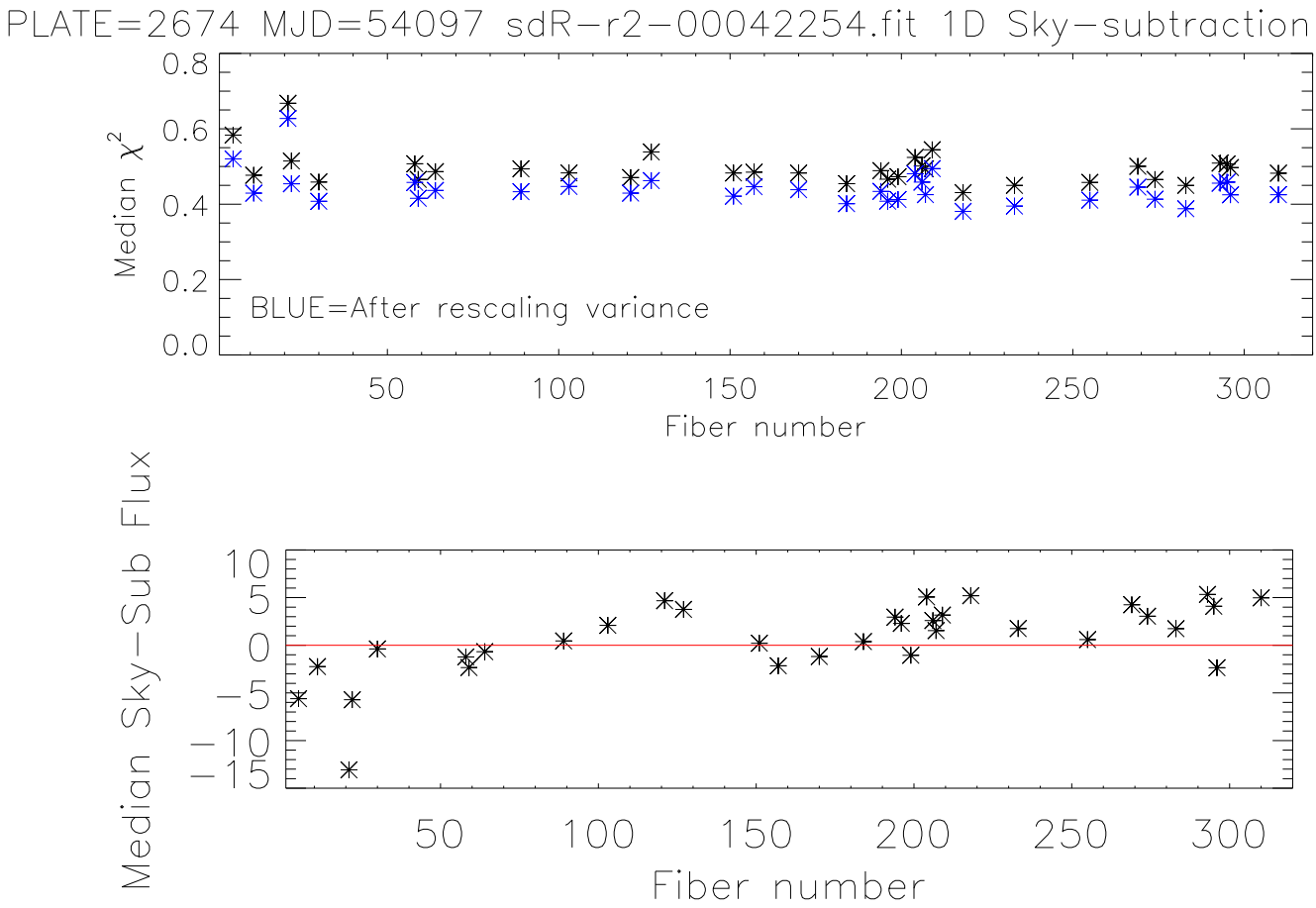

8885.8300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

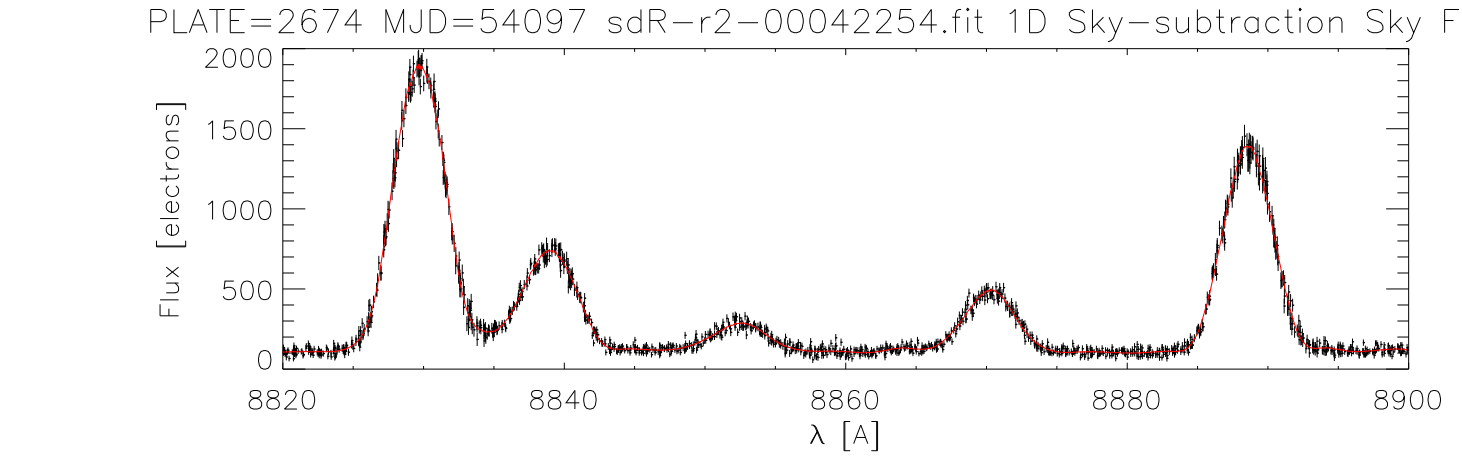

8919.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

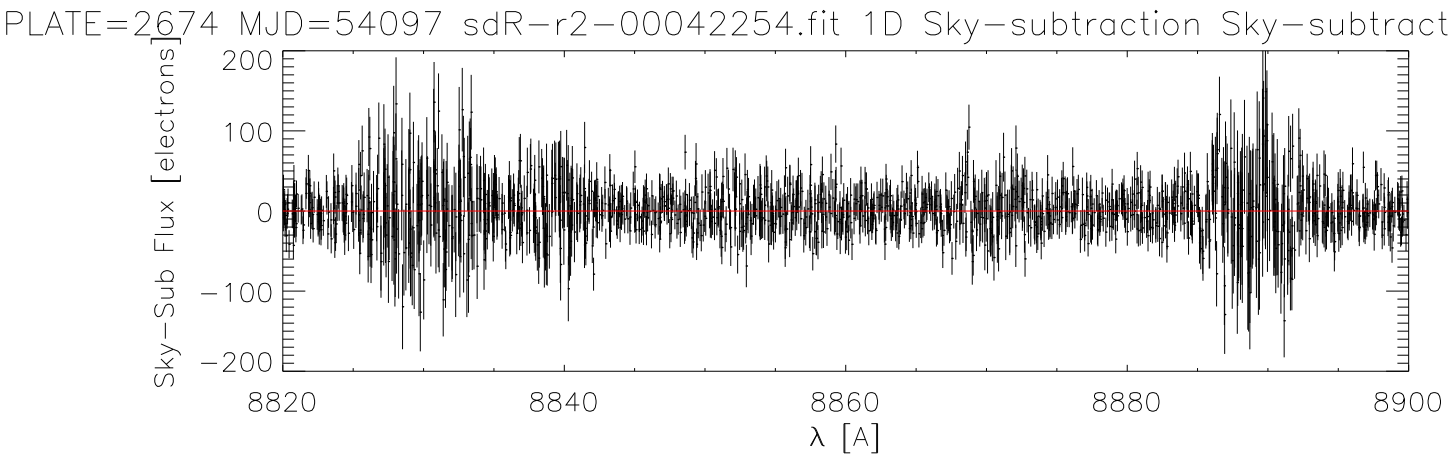

6300.3040
mfib1 36
mfib2 36
stdev 0.026
extra −0.25
6363.7760
mfib1 35
mfib2 36
stdev 0.023
extra −0.22
6553.6100
mfib1 36
mfib2 36
stdev 0.058
extra −0.36
6923.2100
mfib1 36
mfib2 36
stdev 0.043
extra −0.25
6949.0300
mfib1 36
mfib2 36
stdev 0.037
extra −0.21
7571.7500
mfib1 37
mfib2 37
stdev 0.035
extra −0.20
7794.1200
mfib1 37
mfib2 37
stdev 0.025
extra −0.28
7821.5100
mfib1 36
mfib2 36
stdev 0.027
extra −0.24
8399.1600
mfib1 36
mfib2 36
stdev 0.033
extra −0.20
8430.1700
mfib1 36
mfib2 36
stdev 0.025
extra −0.21
8885.8300
mfib1 37
mfib2 37
stdev 0.033
extra −0.19
8919.6100
mfib1 37
mfib2 37
stdev 0.034
extra −0.20
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

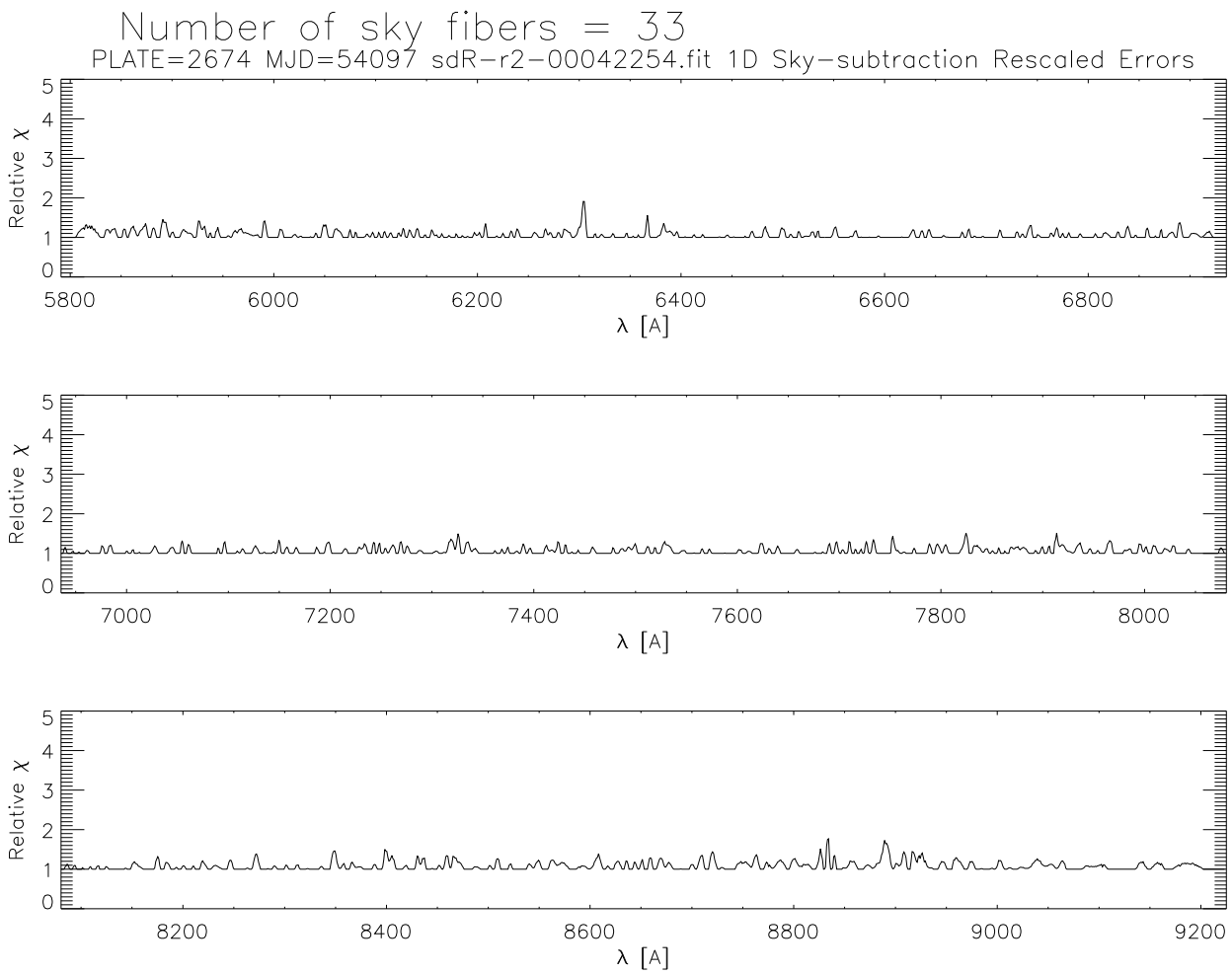

sky shift, pixels
−0.20
−0.25
−0.30
−0.35
5000
6000
7000
8000
9000
10000

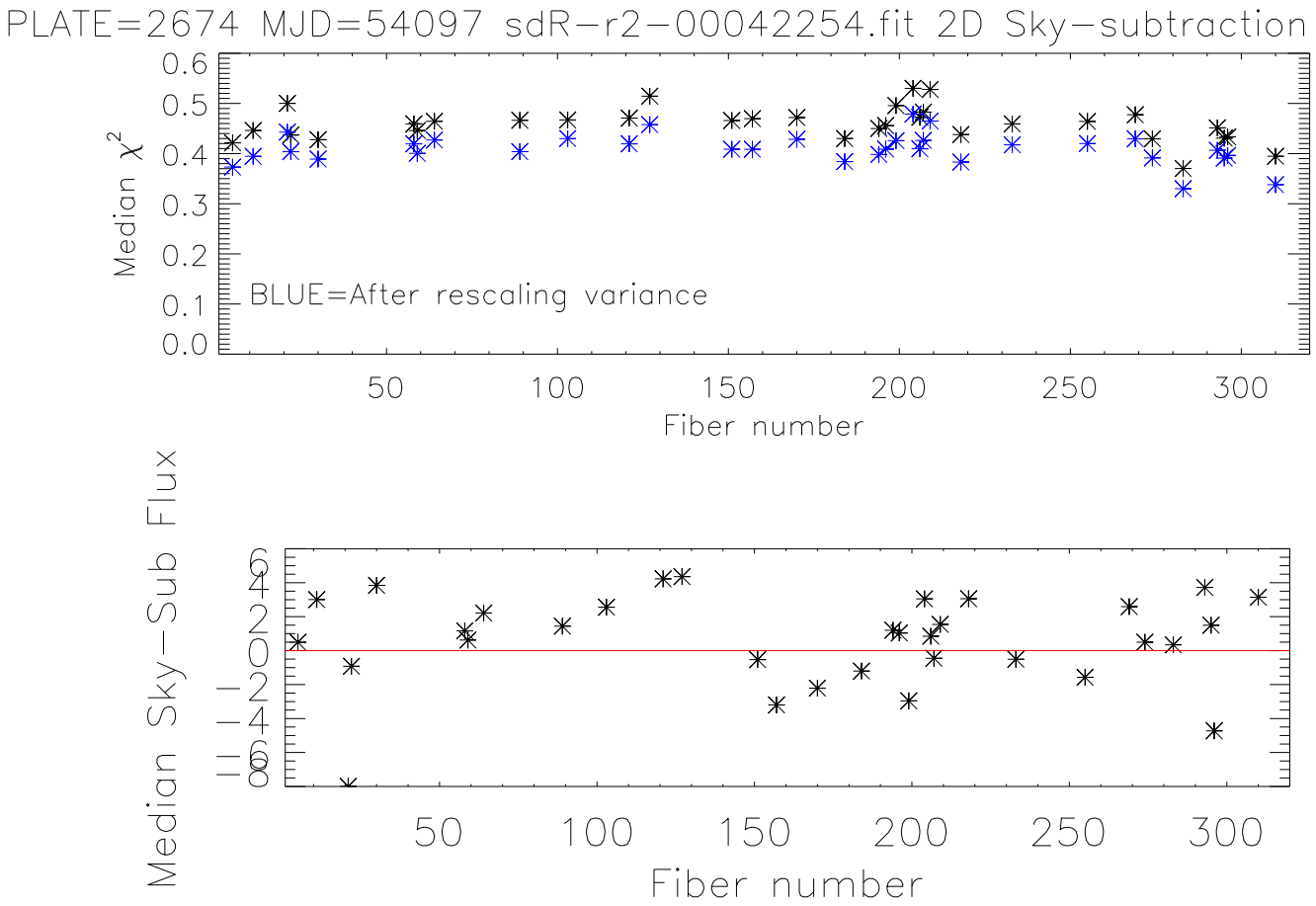

PLATE=2674 MJD=54097 Smooth superflat for sdR-r2-00042254.fit
2.0
1.5
1.0
0.5
0.0
1.004
1.002
1.000
0.998
0.996
0.994
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

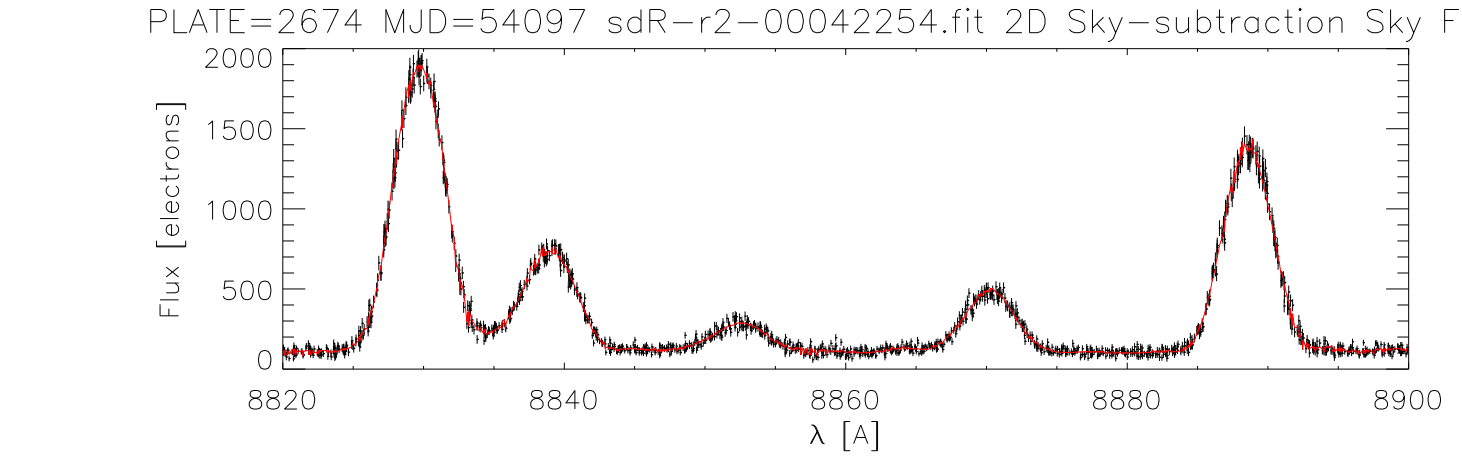

PLATE=2674 MJD=54097 sdR-r2-00042254.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

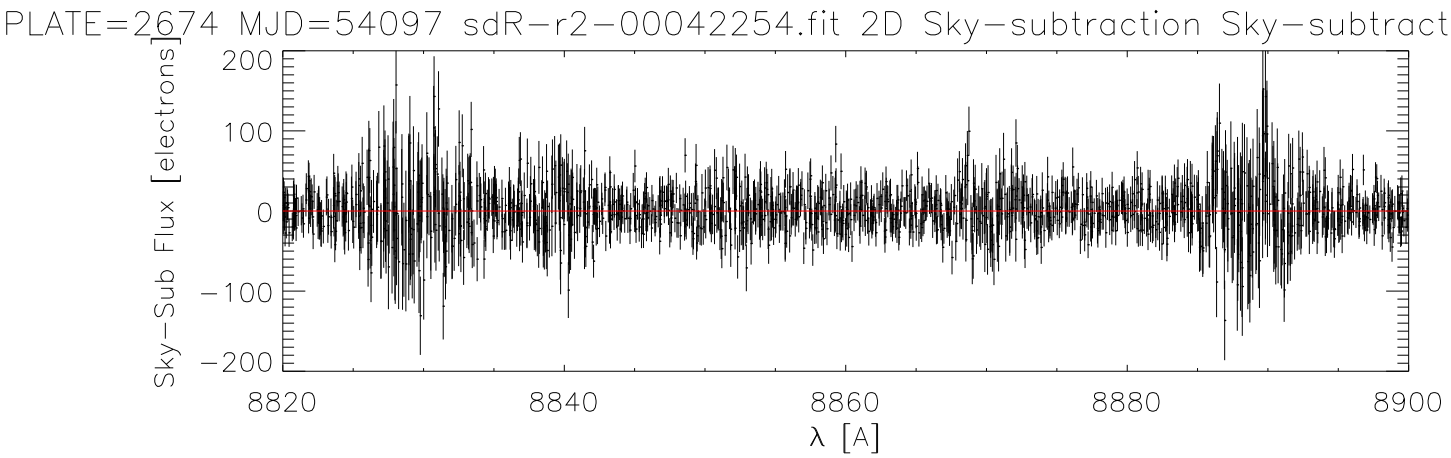

PLATE=2674 MJD=54097 sdR-r2-00042254.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

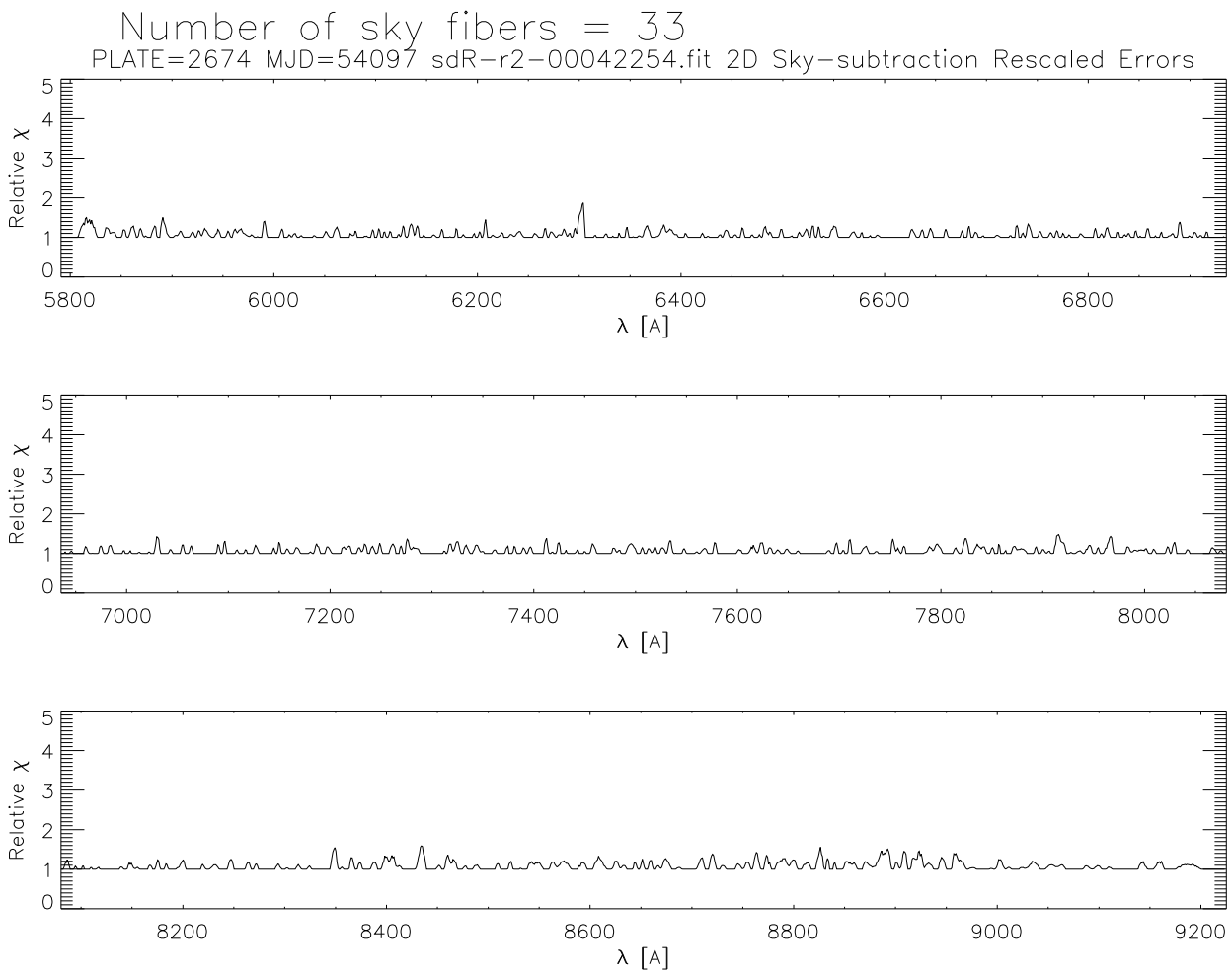

PLATE=2674 MJD=54097 sdR-r2-00042254.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

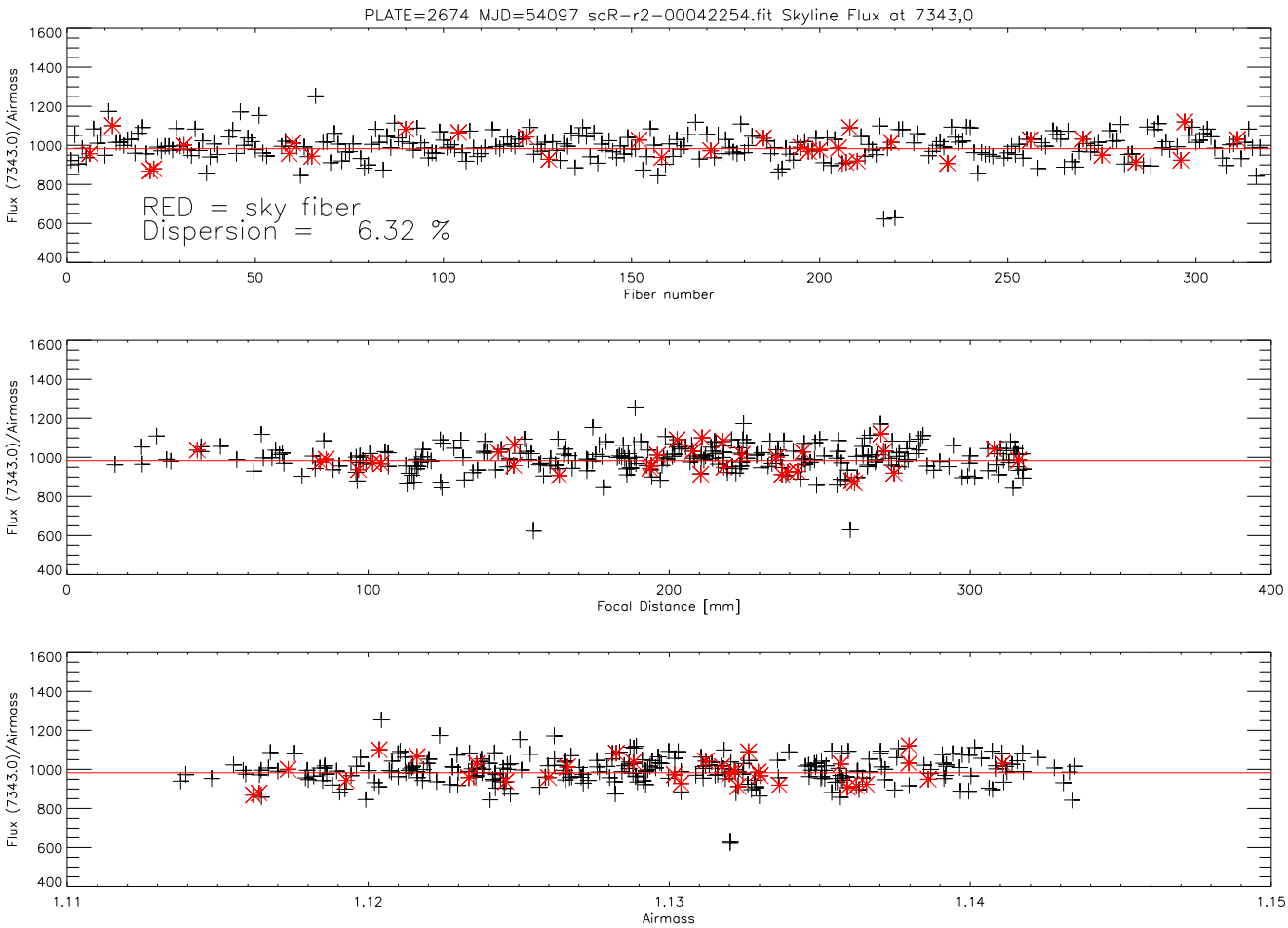

Number of sky fibers = 33
PLATE=2674 MJD=54097 sdR-r2-00042254.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

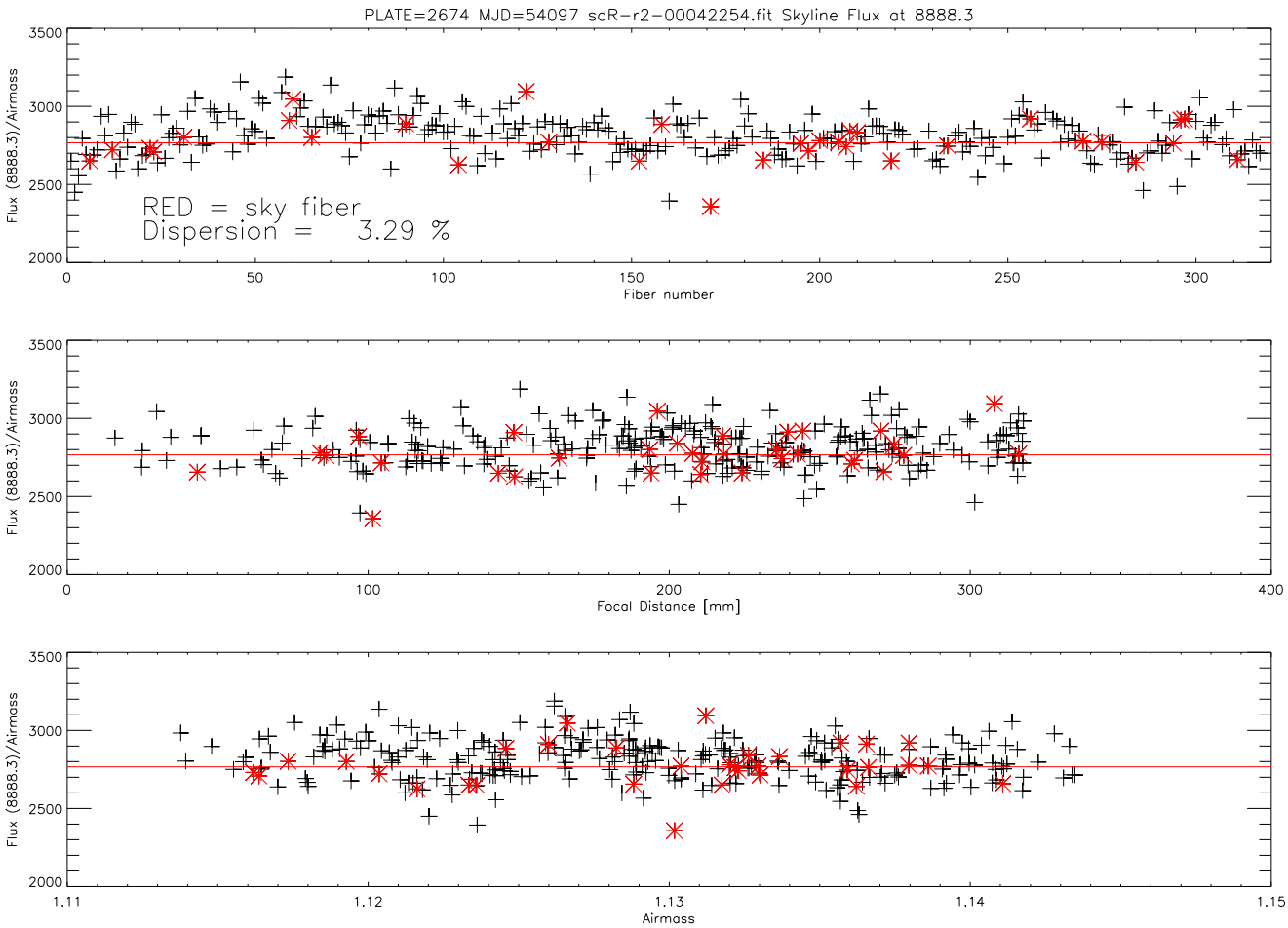

PLATE=2674 MJD=54097 sdR-r2-00042254.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-1.1e-06
-1e-06
-9e-07
-8e-07
-7e-07
-6e-07
-5e-07
-4e-07
-3e-07
-2e-07
-1e-07
0
1e-07
2e-07
3e-07
4e-07
5e-07
6e-07
50
100
150
200
250
300
Fiber number

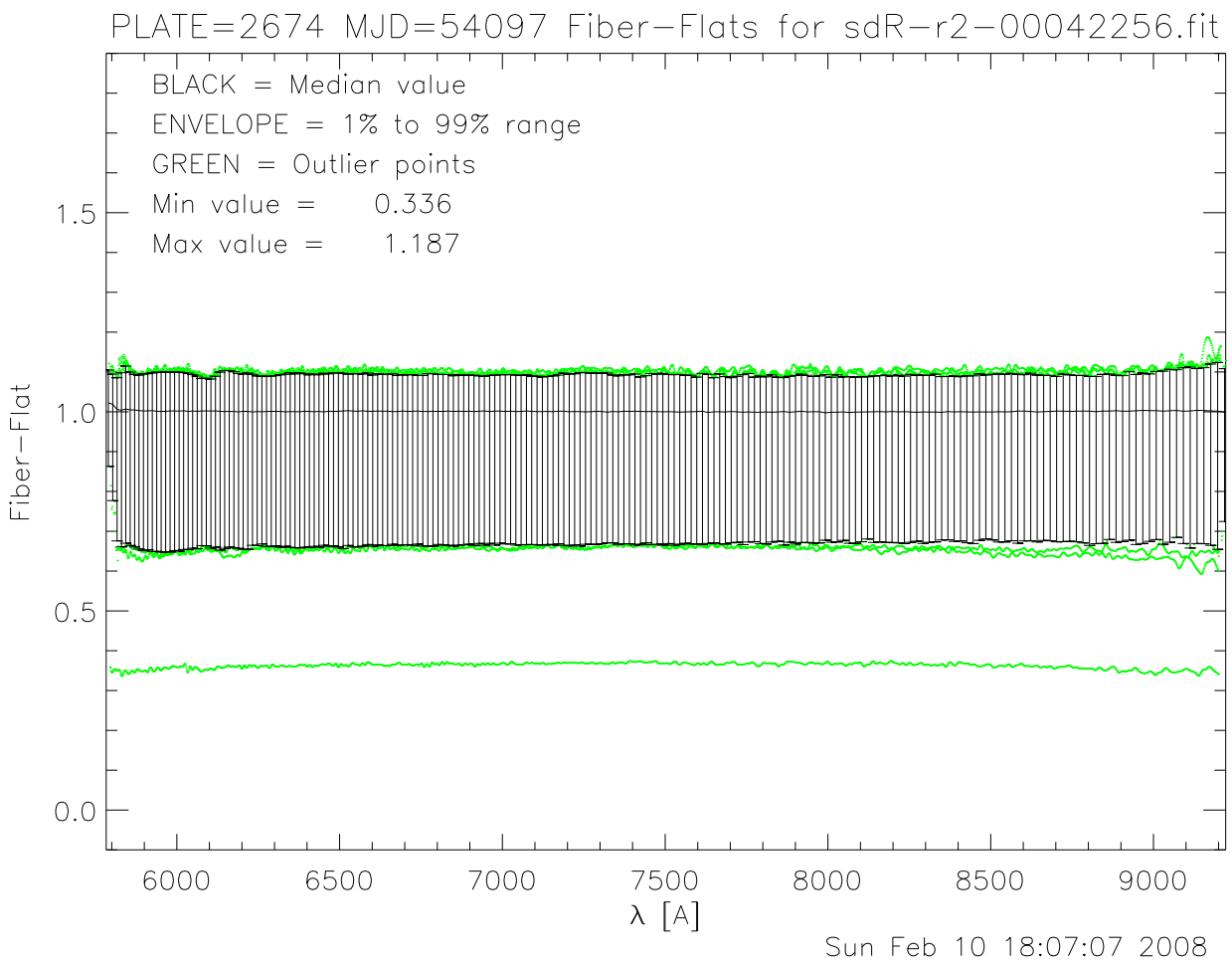

PLATE=2674 MJD=54097 sdR-r2-00042254.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

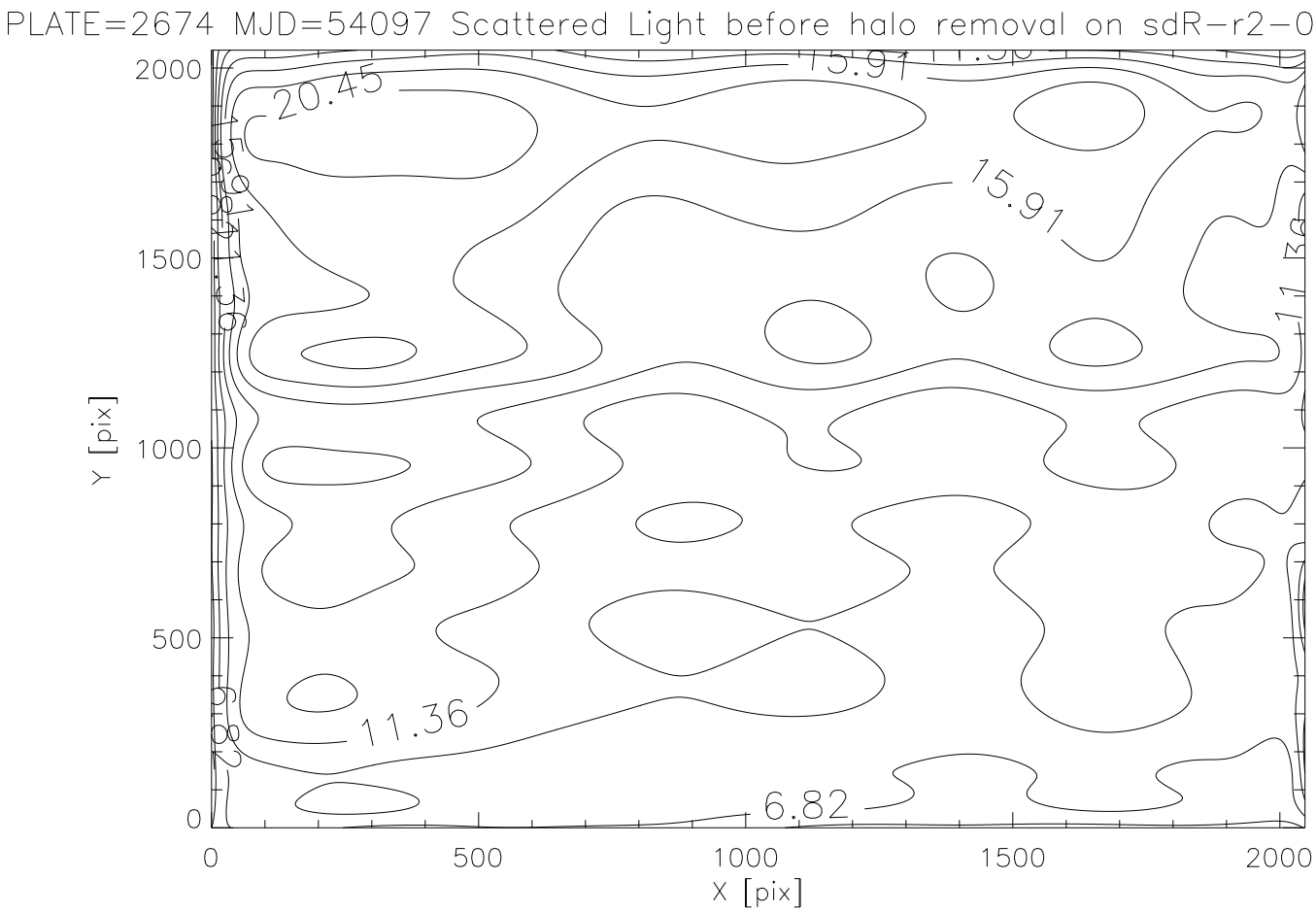

PLATE=2674 MJD=54097 sdR-r2-00042254.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

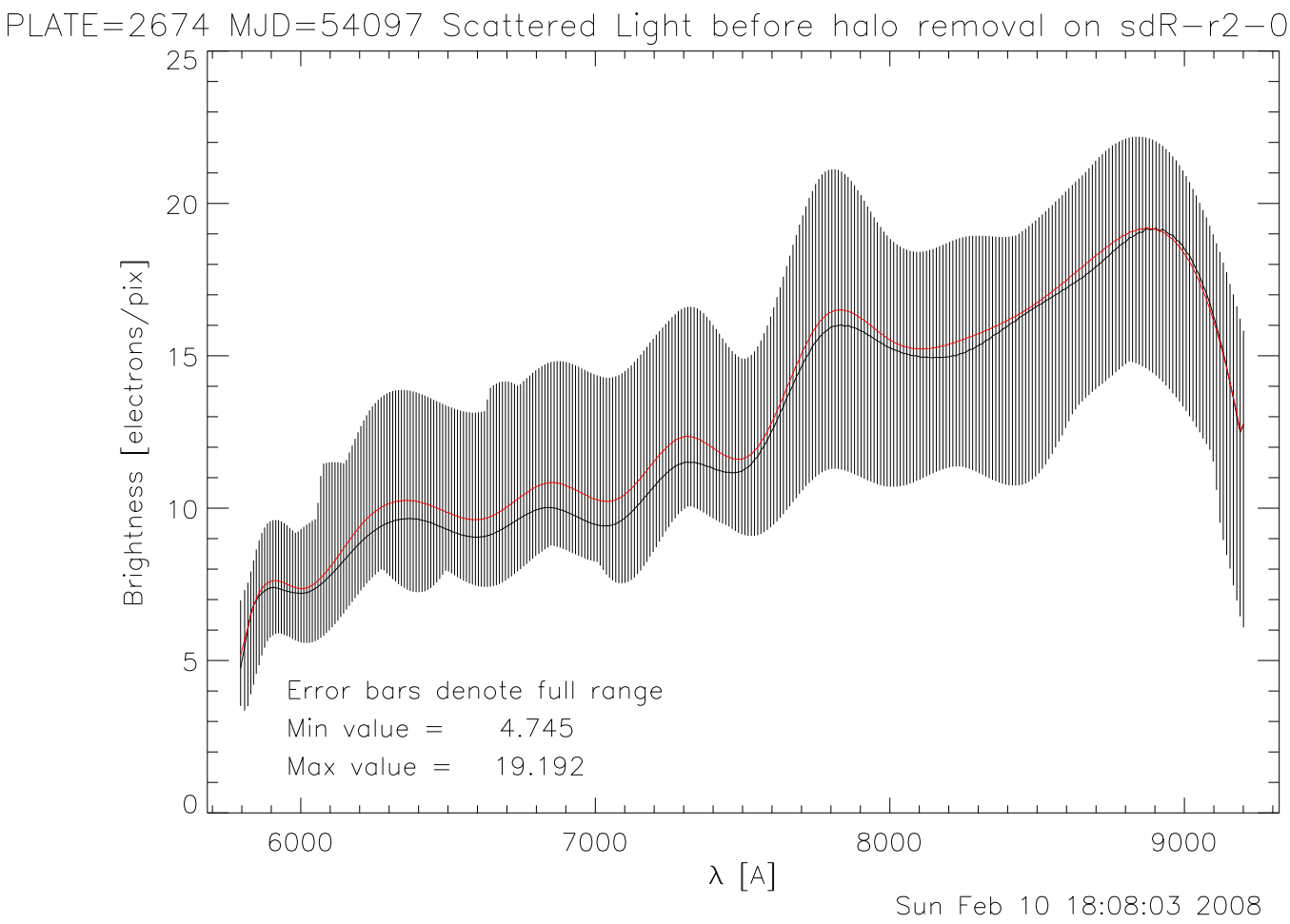

Number of sky fibers = 33
PLATE=2674 MJD=54097 sdR-r2-00042254.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

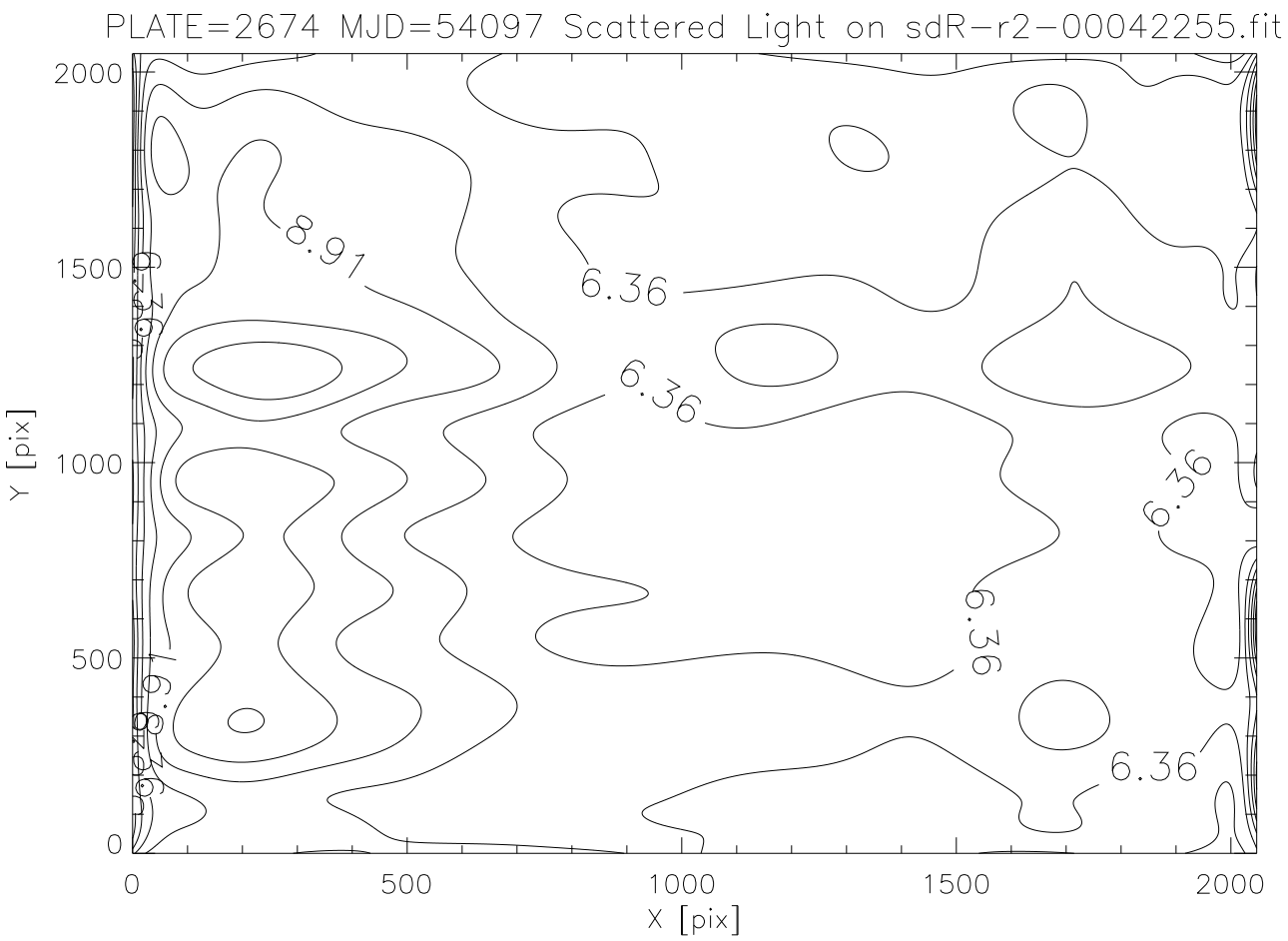

PLATE=2674 MJD=54097 sdR-r2-00042254.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 6.32 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

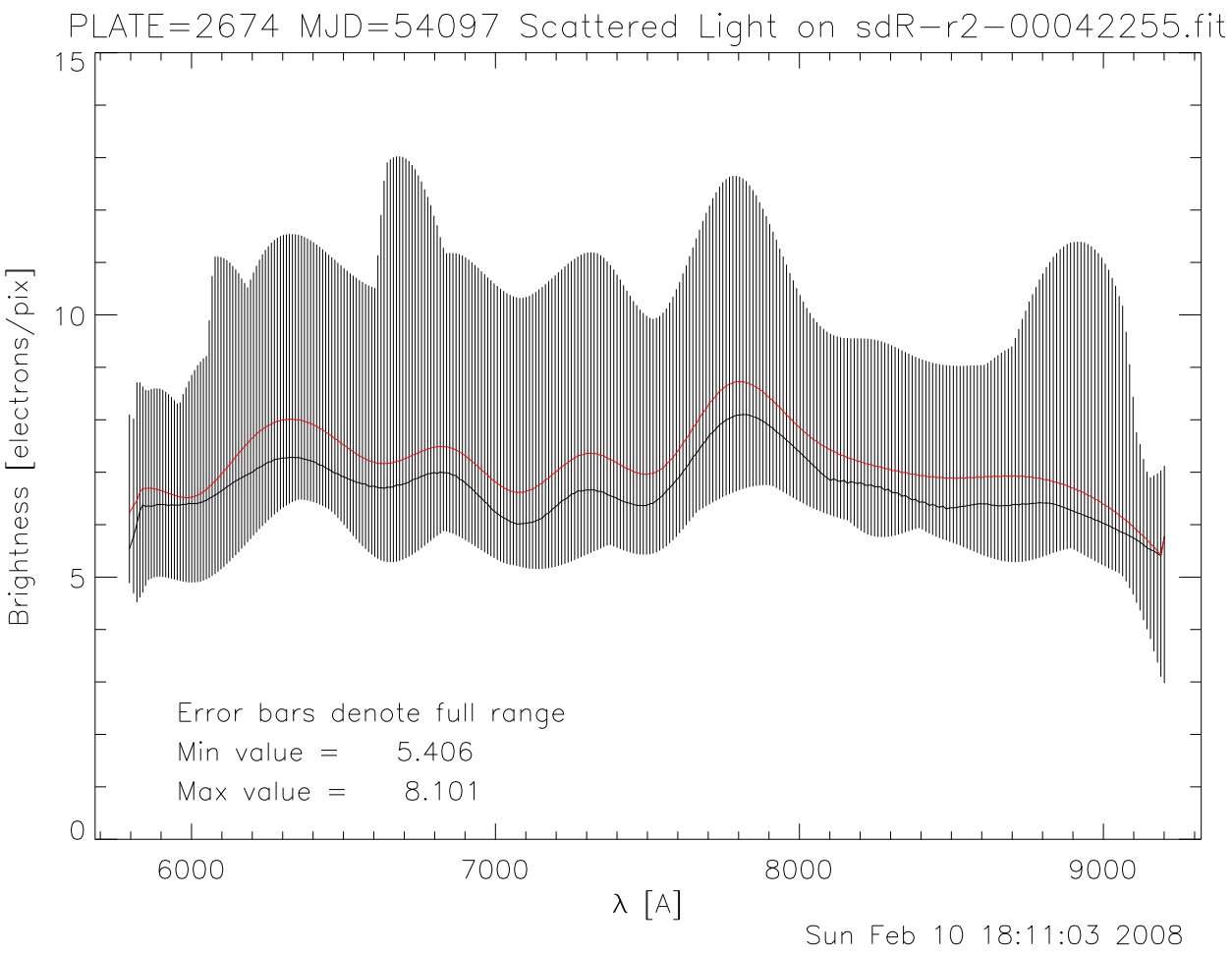

PLATE=2674 MJD=54097 sdR-r2-00042254.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.29 %
Fiber number
Focal Distance [mm]
Airmass

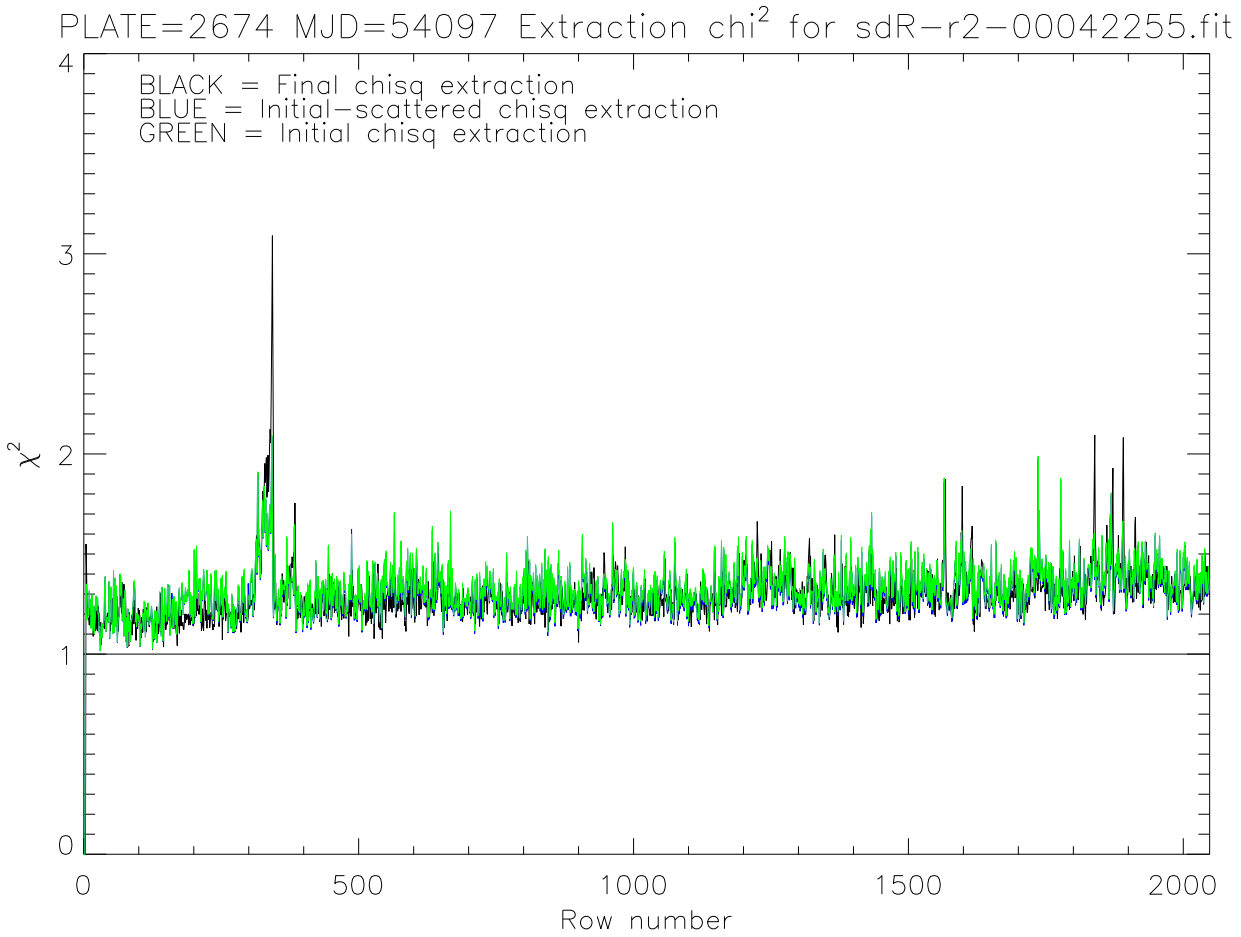

PLATE=2674 MJD=54097 Fiber−Flats for sdR−r2−00042256.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.336
Max value = 1.187
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sun Feb 10 18:07:07 2008

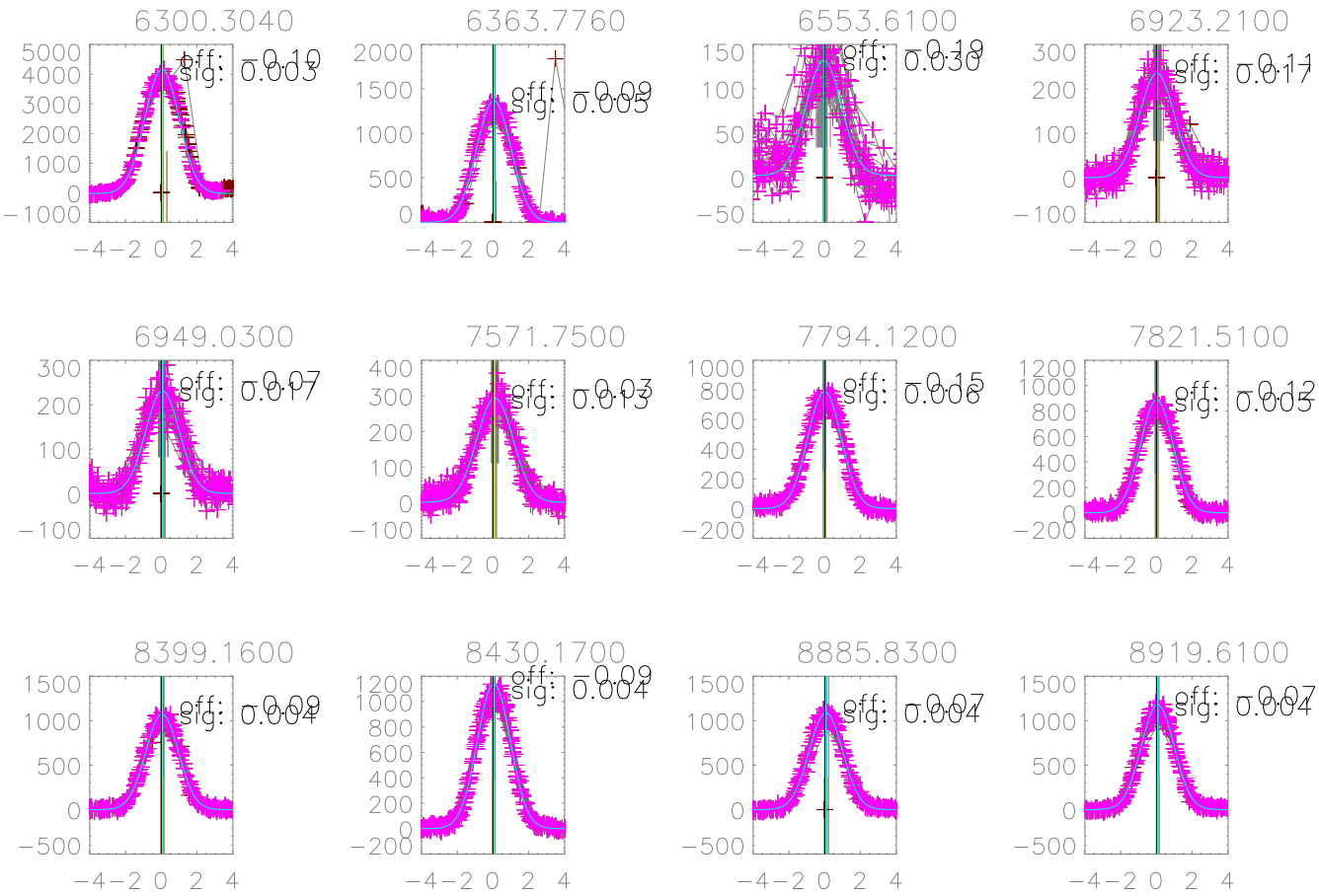

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR-r2-00042255.fi
20.45
15.91
11.36
6.82
Y [pix]
X [pix]
0
500
1000
1500
2000

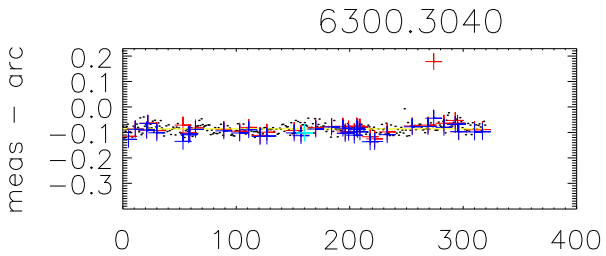

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR-r2-00042255.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.745
Max value = 19.192
Sun Feb 10 18:08:03 2008

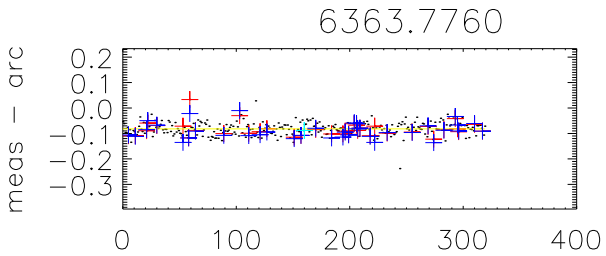

PLATE=2674 MJD=54097 Scattered Light on sdR-r2-00042255.fit
8.91
6.36
6.36
6.36
6.36
6.36
6.36
Y [pix]
X [pix]
0
500
1000
1500
2000

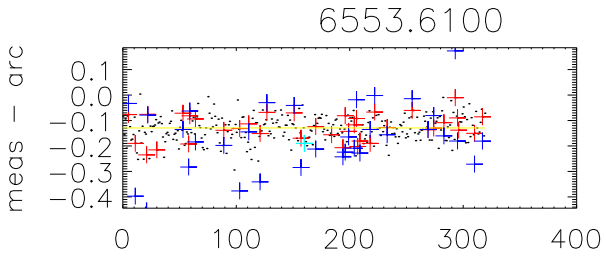

PLATE=2674 MJD=54097 Scattered Light on sdR-r2-00042255.fit
Brightness [electrons/pix]
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 5.406
Max value = 8.101
Sun Feb 10 18:11:03 2008

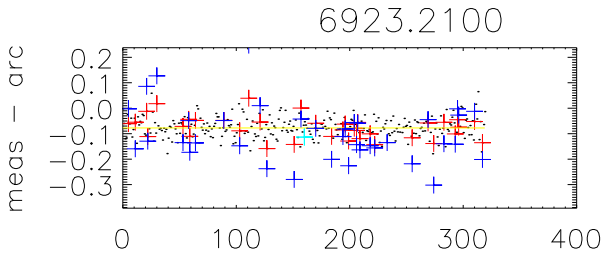

PLATE=2674 MJD=54097 Extraction chi^2 for sdR−r2−00042255.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

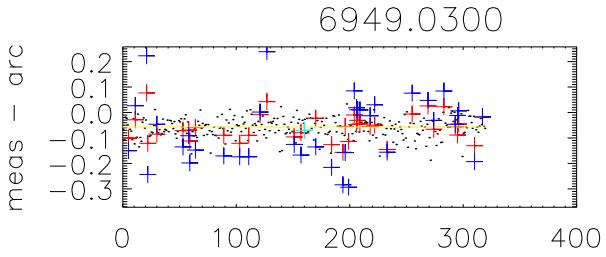

6300.3040
off: −0.10
sig: 0.003
6363.7760
off: −0.09
sig: 0.005
6553.6100
off: −0.19
sig: 0.030
6923.2100
off: −0.11
sig: 0.017
6949.0300
off: −0.07
sig: 0.017
7571.7500
off: −0.03
sig: 0.013
7794.1200
off: −0.15
sig: 0.006
7821.5100
off: −0.12
sig: 0.003
8399.1600
off: −0.09
sig: 0.004
8430.1700
off: −0.09
sig: 0.004
8885.8300
off: −0.07
sig: 0.004
8919.6100
off: −0.07
sig: 0.004

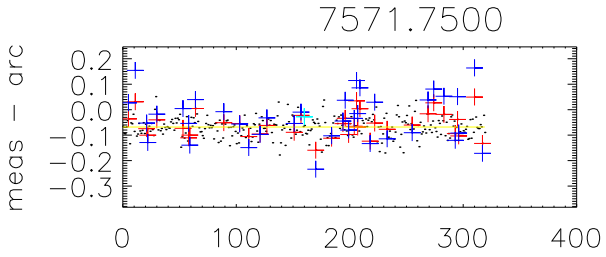

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

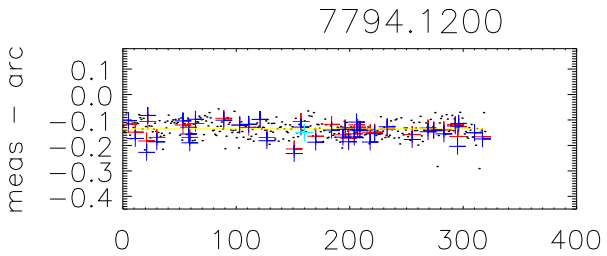

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

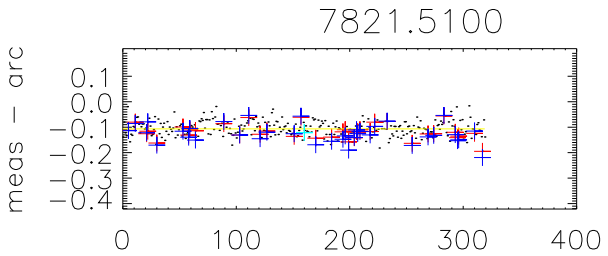

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

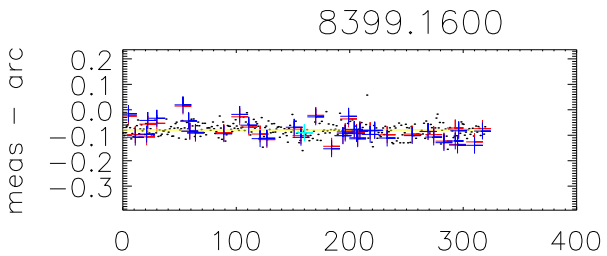

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

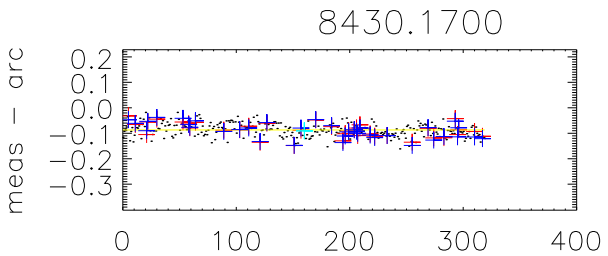

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

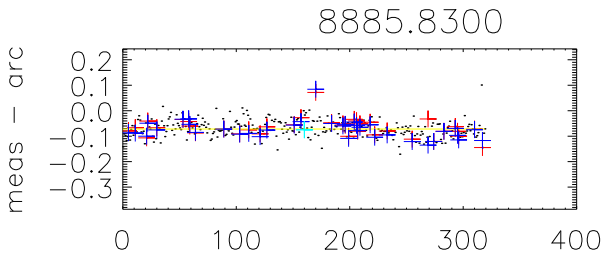

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

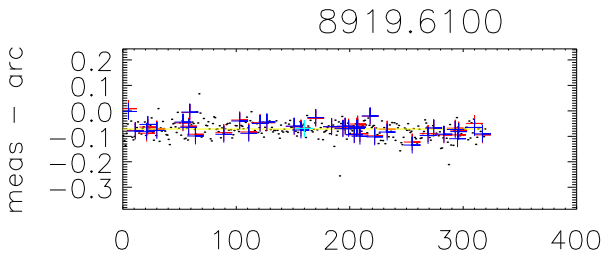

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

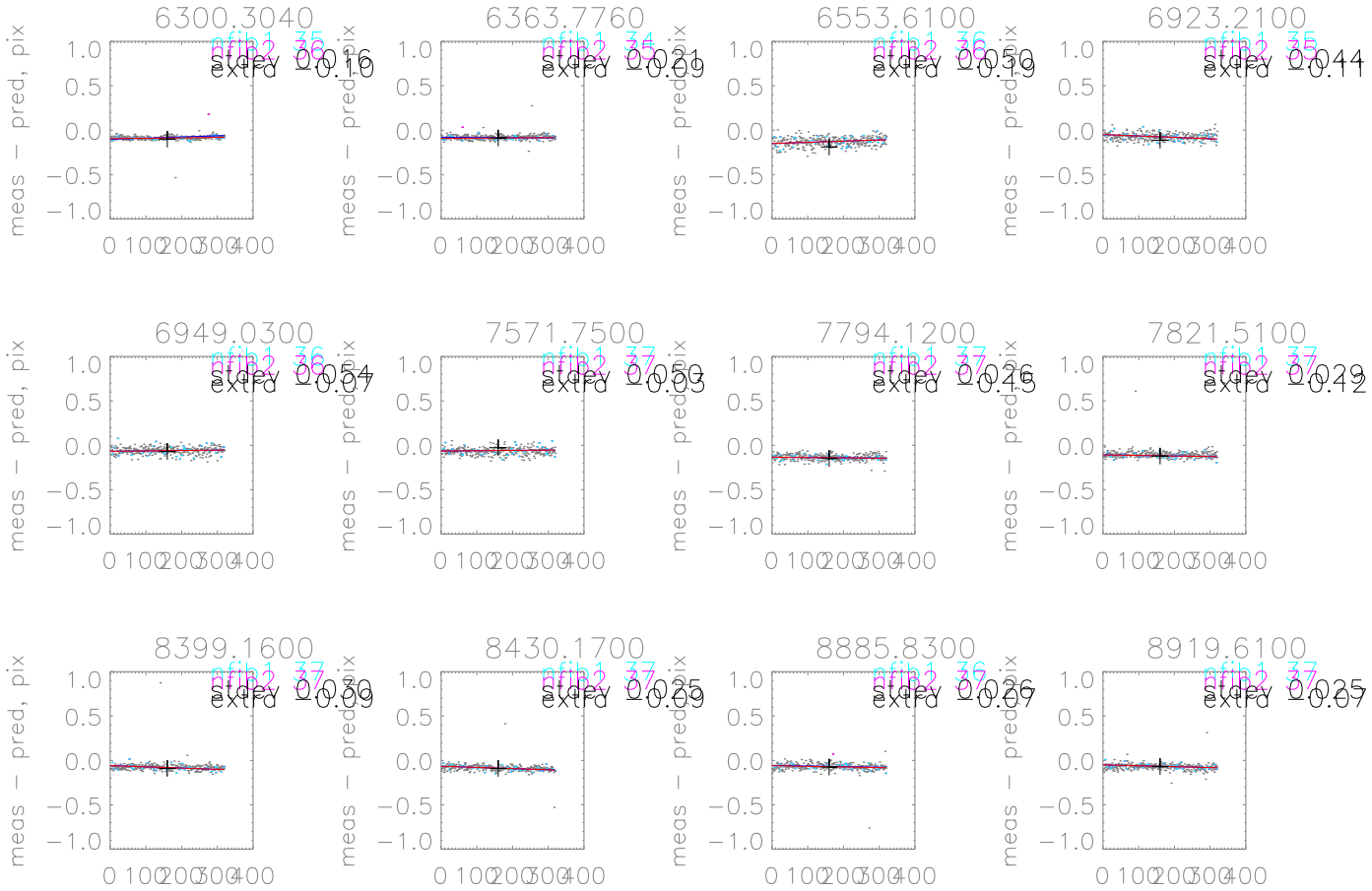

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

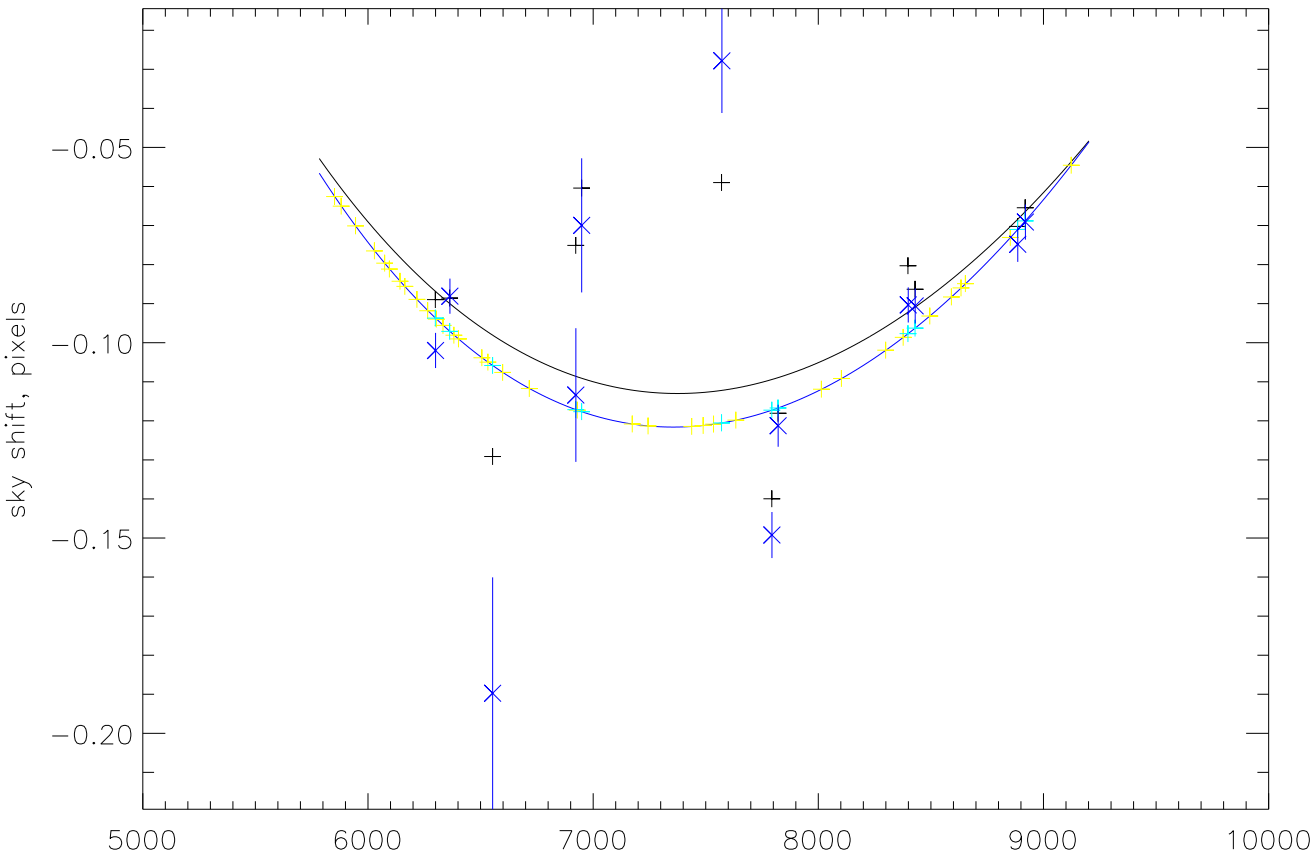

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

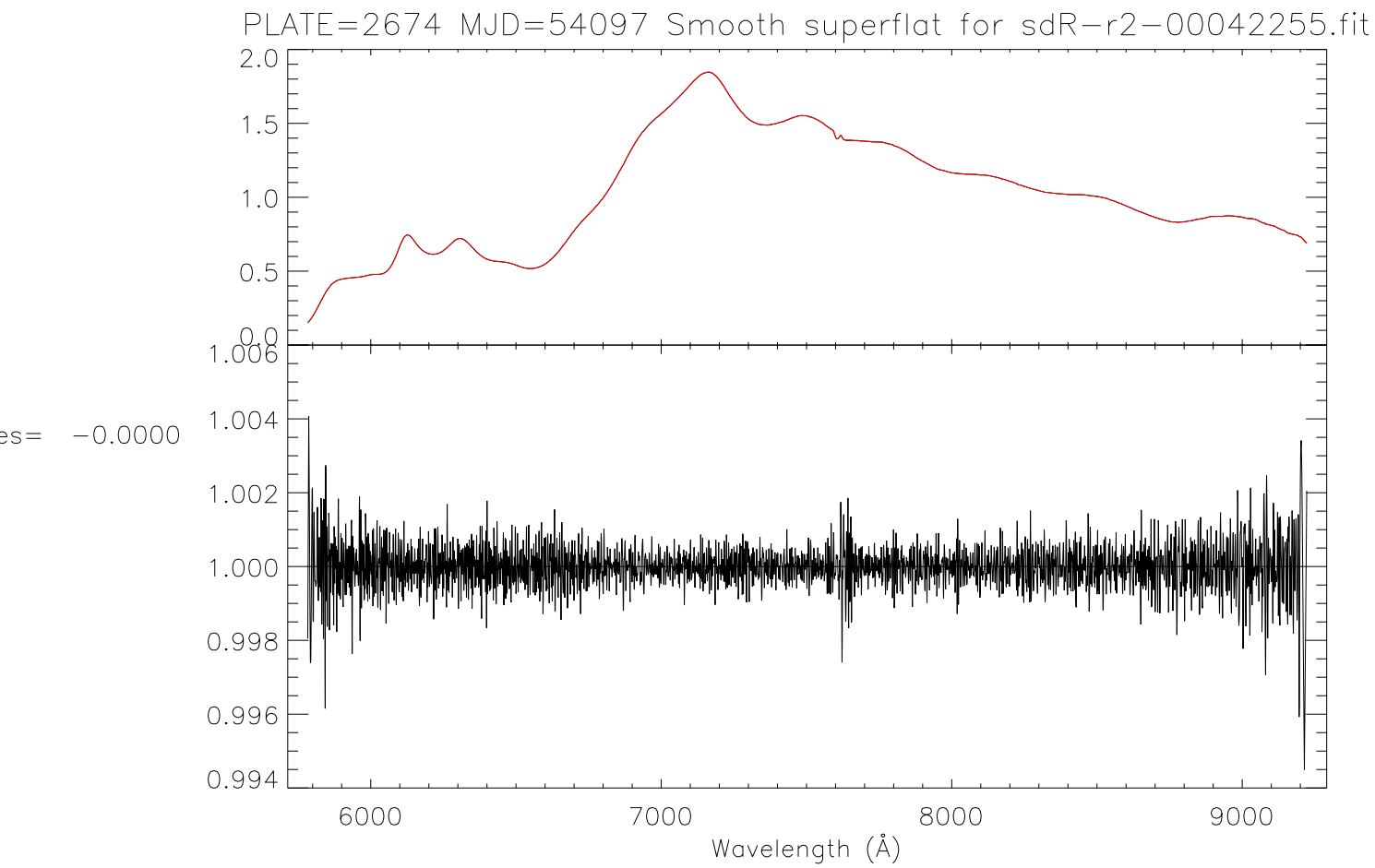

8430.1700
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

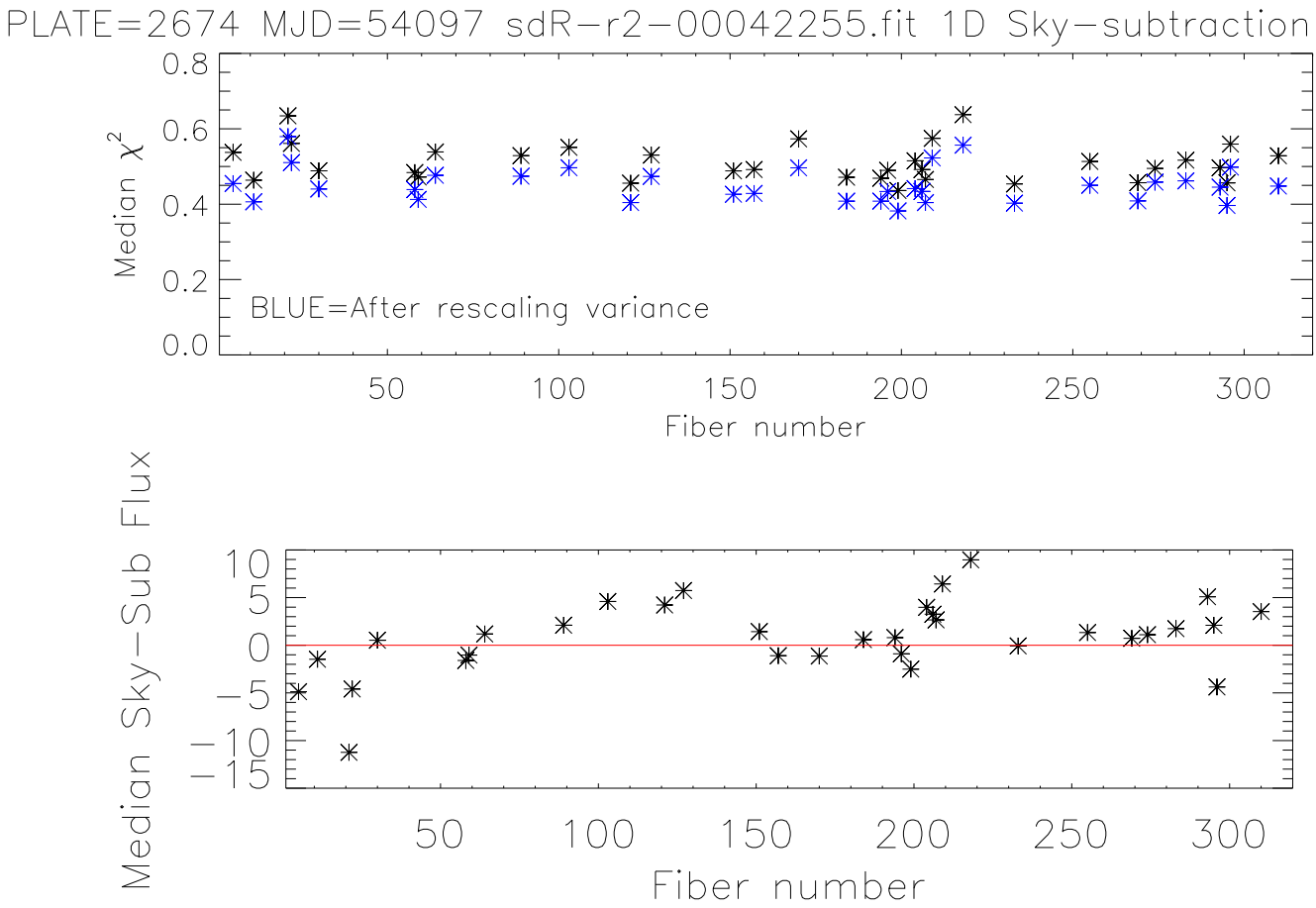

8885.8300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

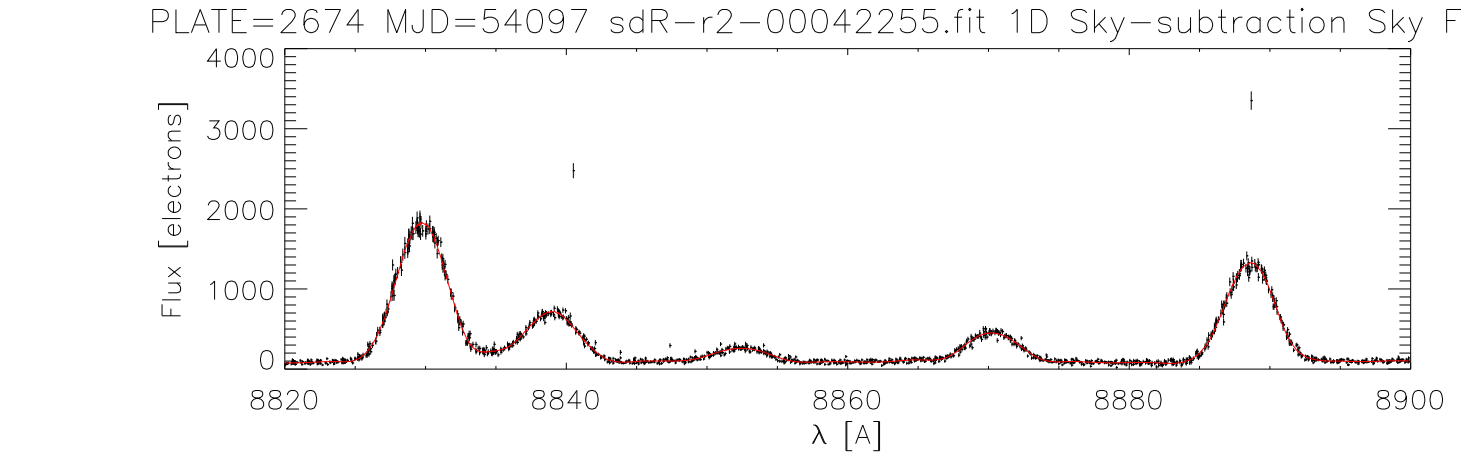

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

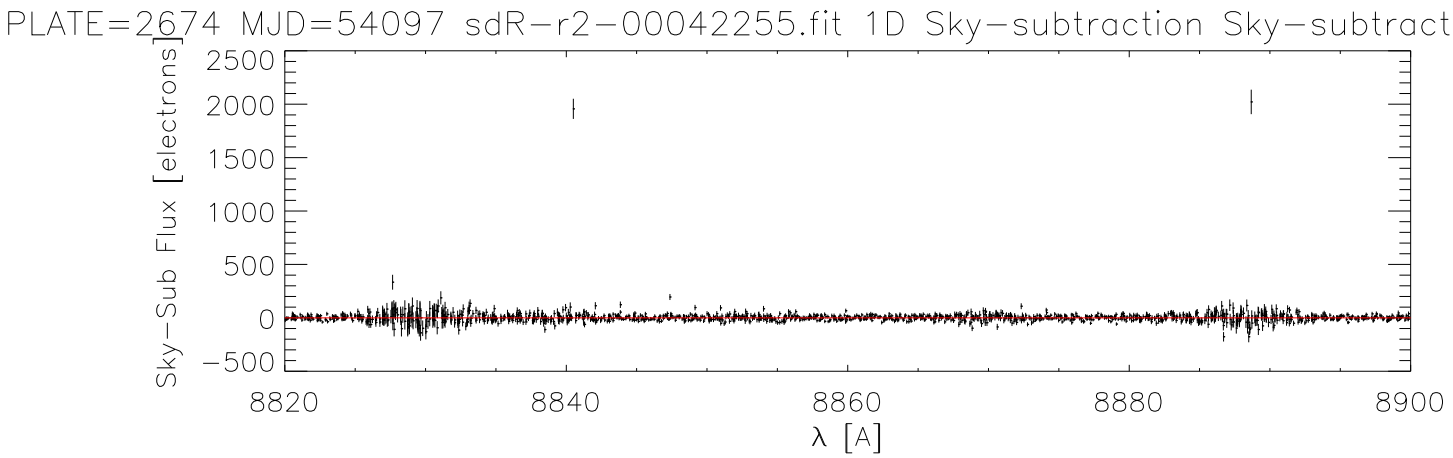

6300.3040
mfib1 35
mfib2 36
stdev 0.16
extra 0.10
6363.7760
mfib1 34
mfib2 35
stdev 0.21
extra 0.09
6553.6100
mfib1 36
mfib2 36
stdev 0.30
extra 0.19
6923.2100
mfib1 35
mfib2 35
stdev 0.44
extra 0.11
6949.0300
mfib1 36
mfib2 36
stdev 0.54
extra 0.07
7571.7500
mfib1 37
mfib2 37
stdev 0.50
extra 0.03
7794.1200
mfib1 37
mfib2 37
stdev 0.26
extra 0.45
7821.5100
mfib1 37
mfib2 37
stdev 0.29
extra 0.42
8399.1600
mfib1 37
mfib2 37
stdev 0.30
extra 0.09
8430.1700
mfib1 37
mfib2 37
stdev 0.25
extra 0.09
8885.8300
mfib1 36
mfib2 36
stdev 0.26
extra 0.07
8919.6100
mfib1 37
mfib2 37
stdev 0.25
extra 0.07
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

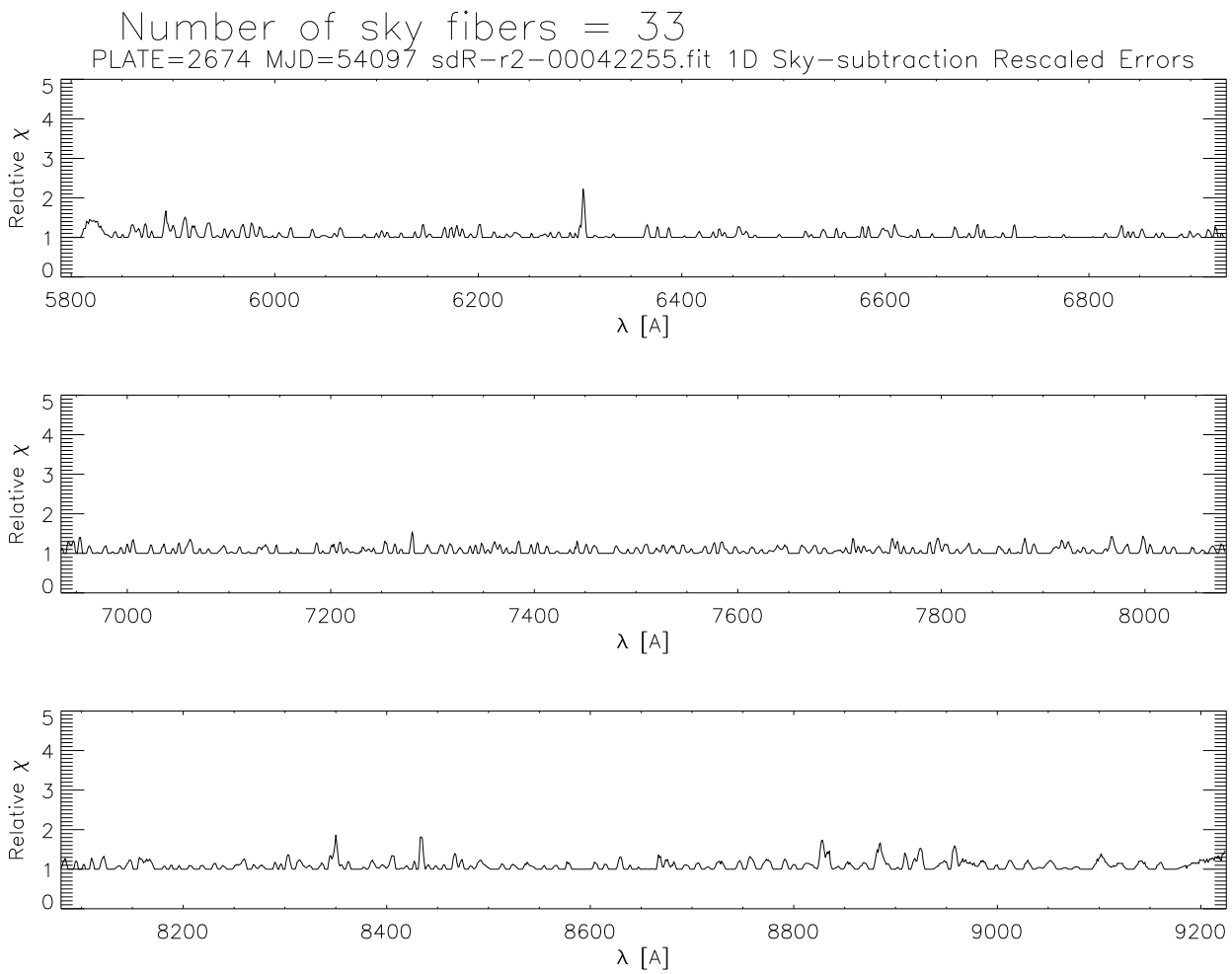

sky shift, pixels
−0.05
−0.10
−0.15
−0.20
5000
6000
7000
8000
9000
10000

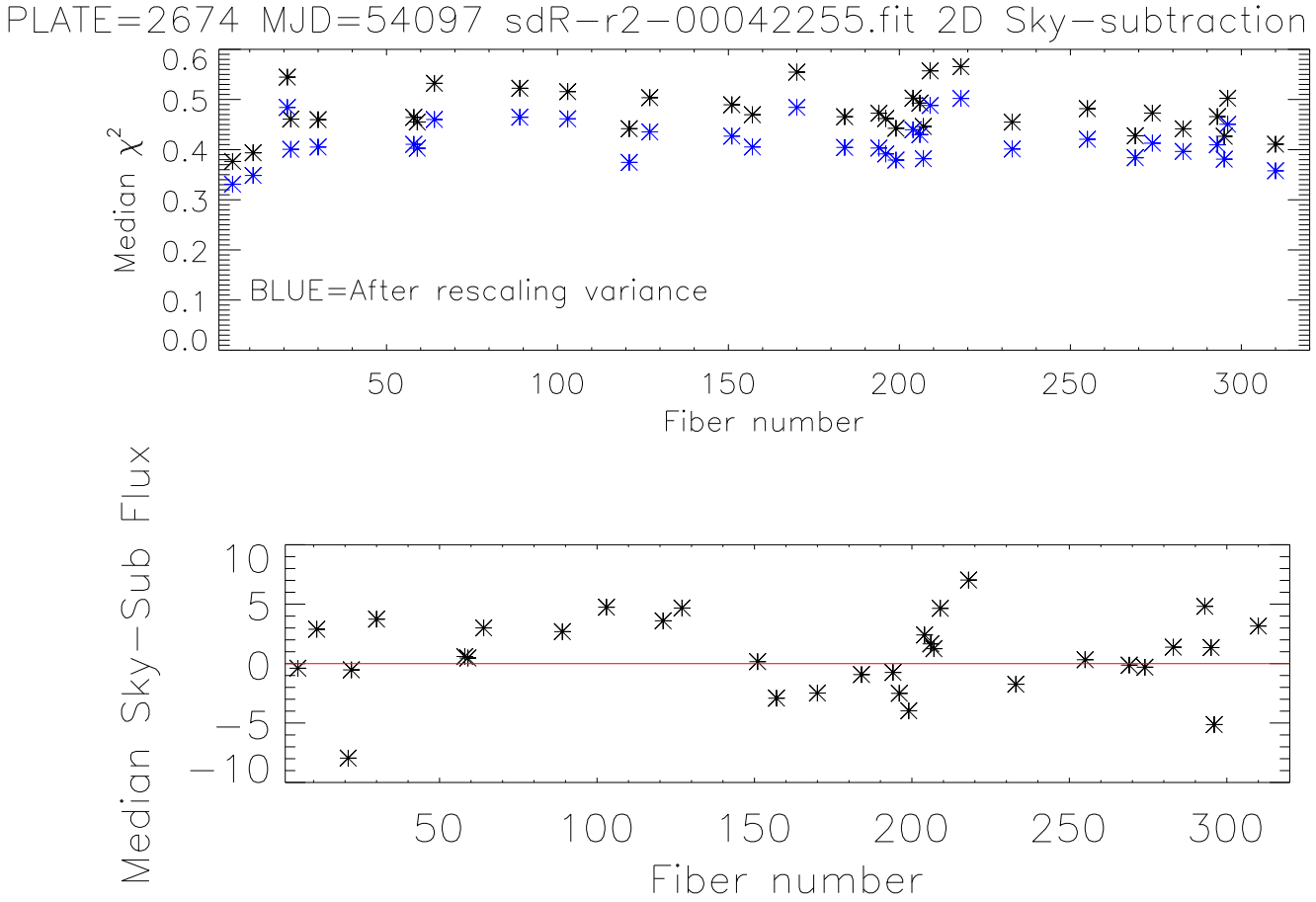

PLATE=2674 MJD=54097 Smooth superflat for sdR-r2-00042255.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

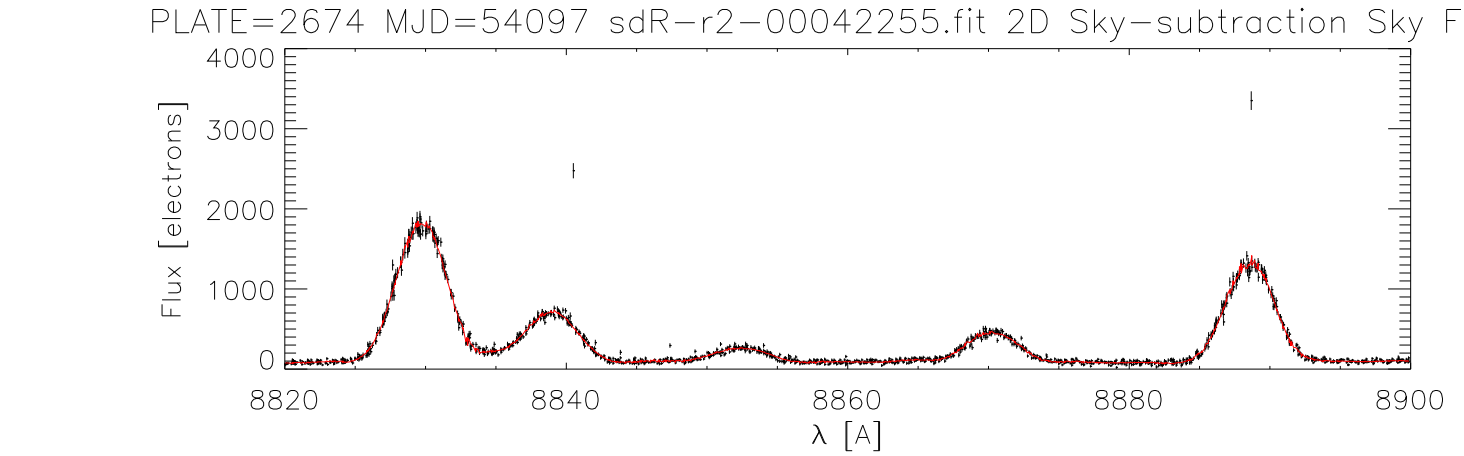

PLATE=2674 MJD=54097 sdR-r2-00042255.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

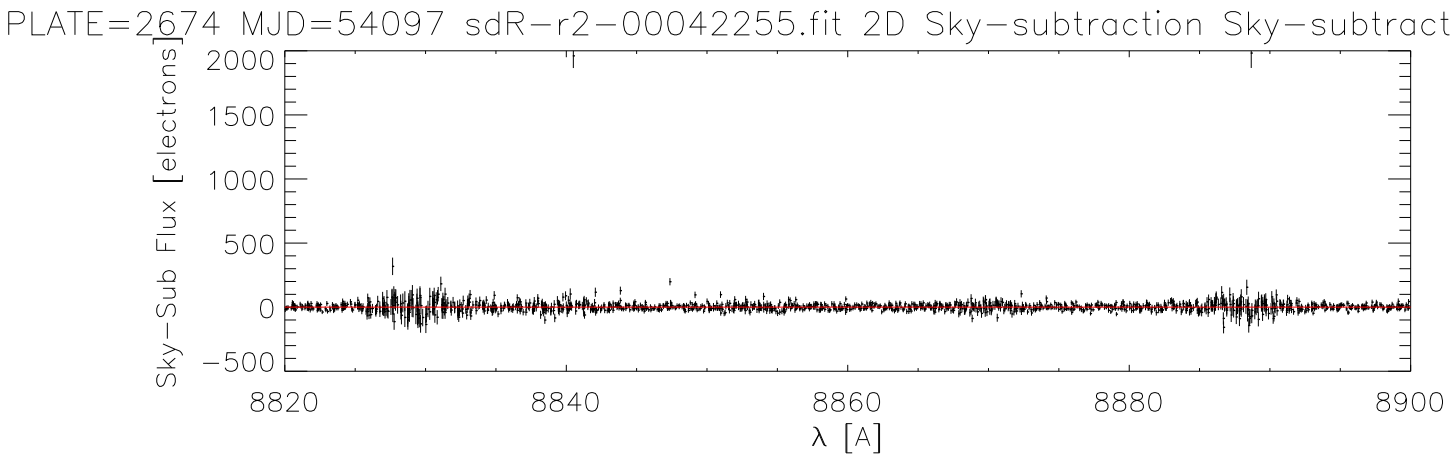

PLATE=2674 MJD=54097 sdR-r2-00042255.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

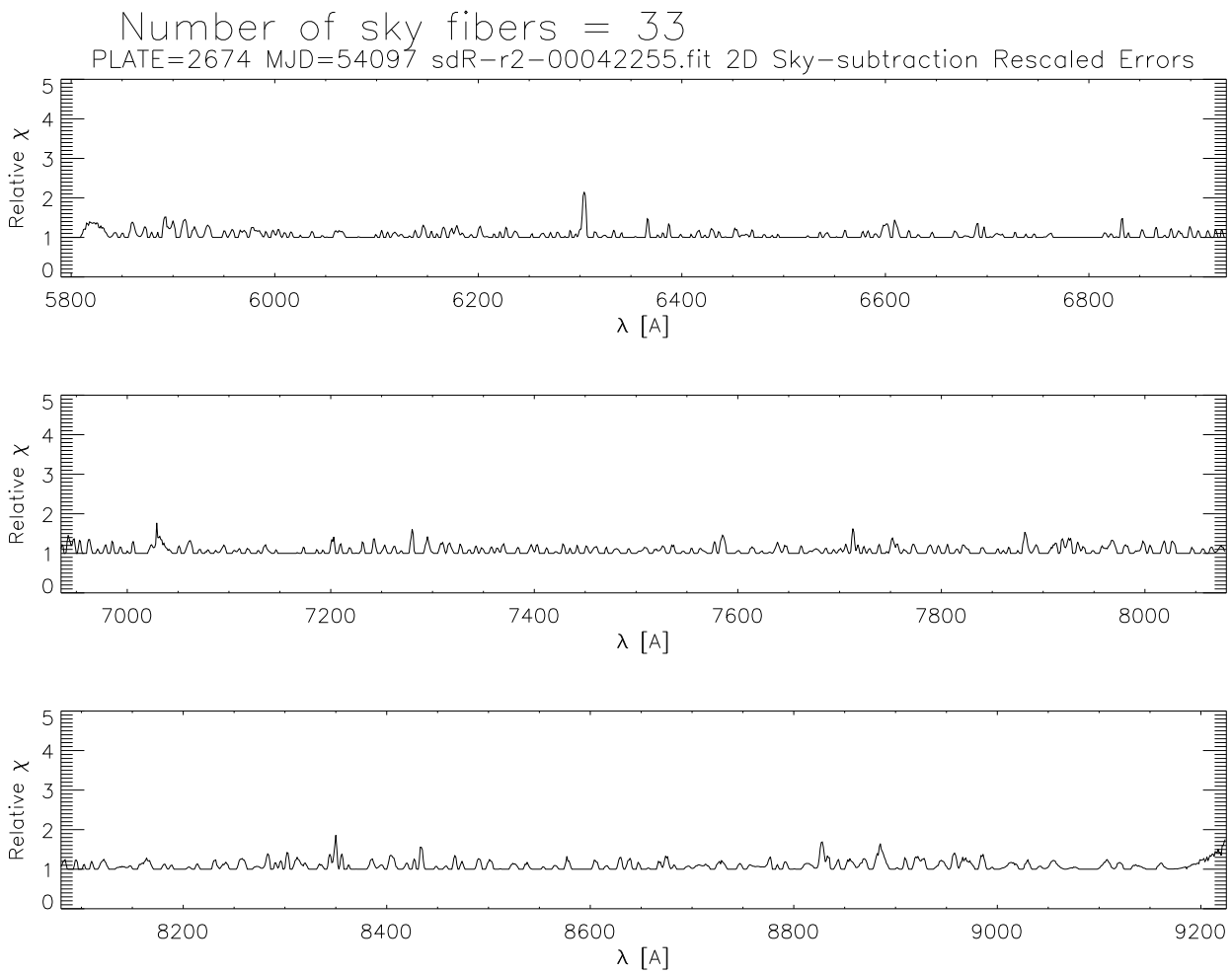

PLATE=2674 MJD=54097 sdR-r2-00042255.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2500
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

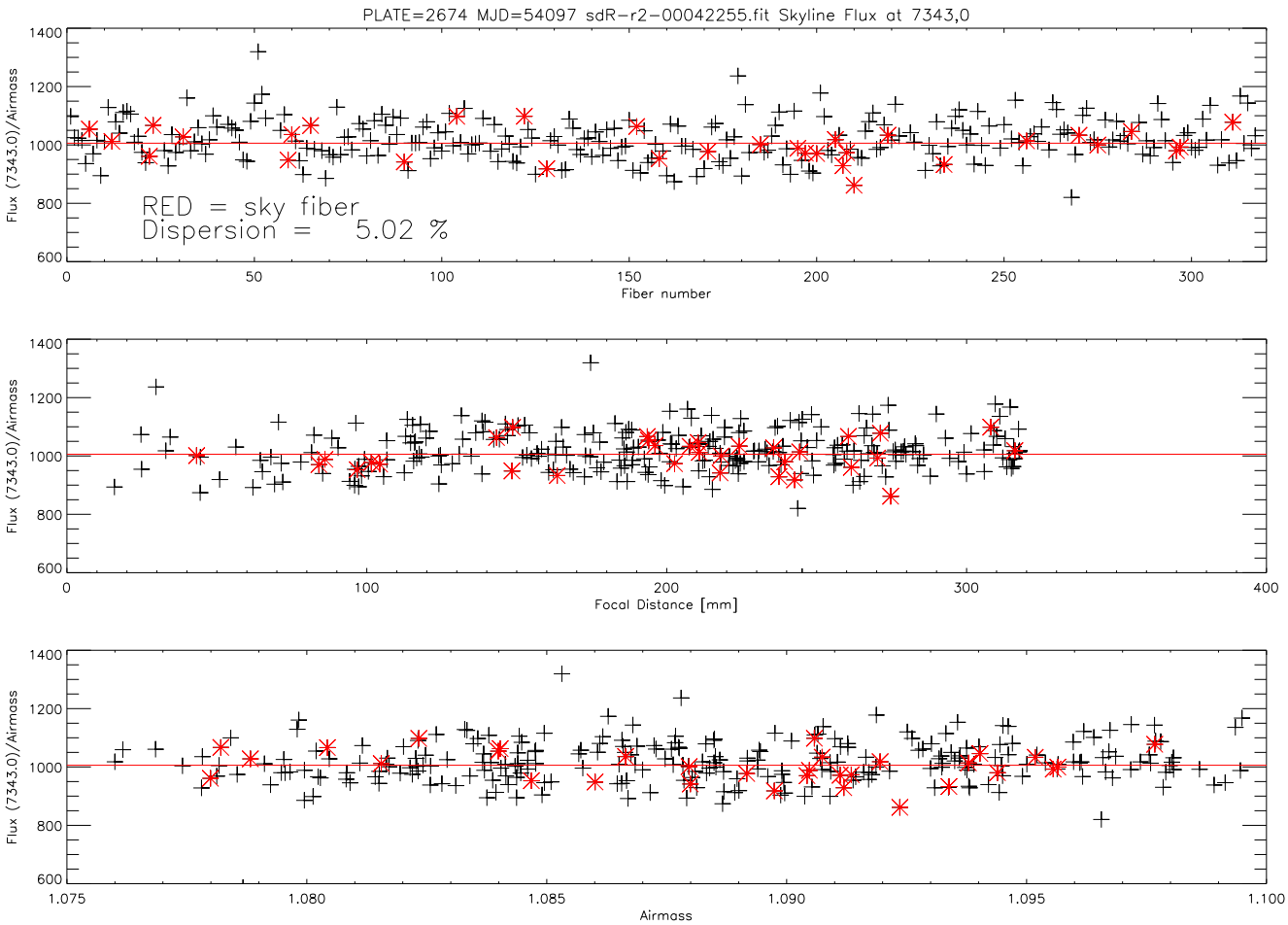

Number of sky fibers = 33
PLATE=2674 MJD=54097 sdR-r2-00042255.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

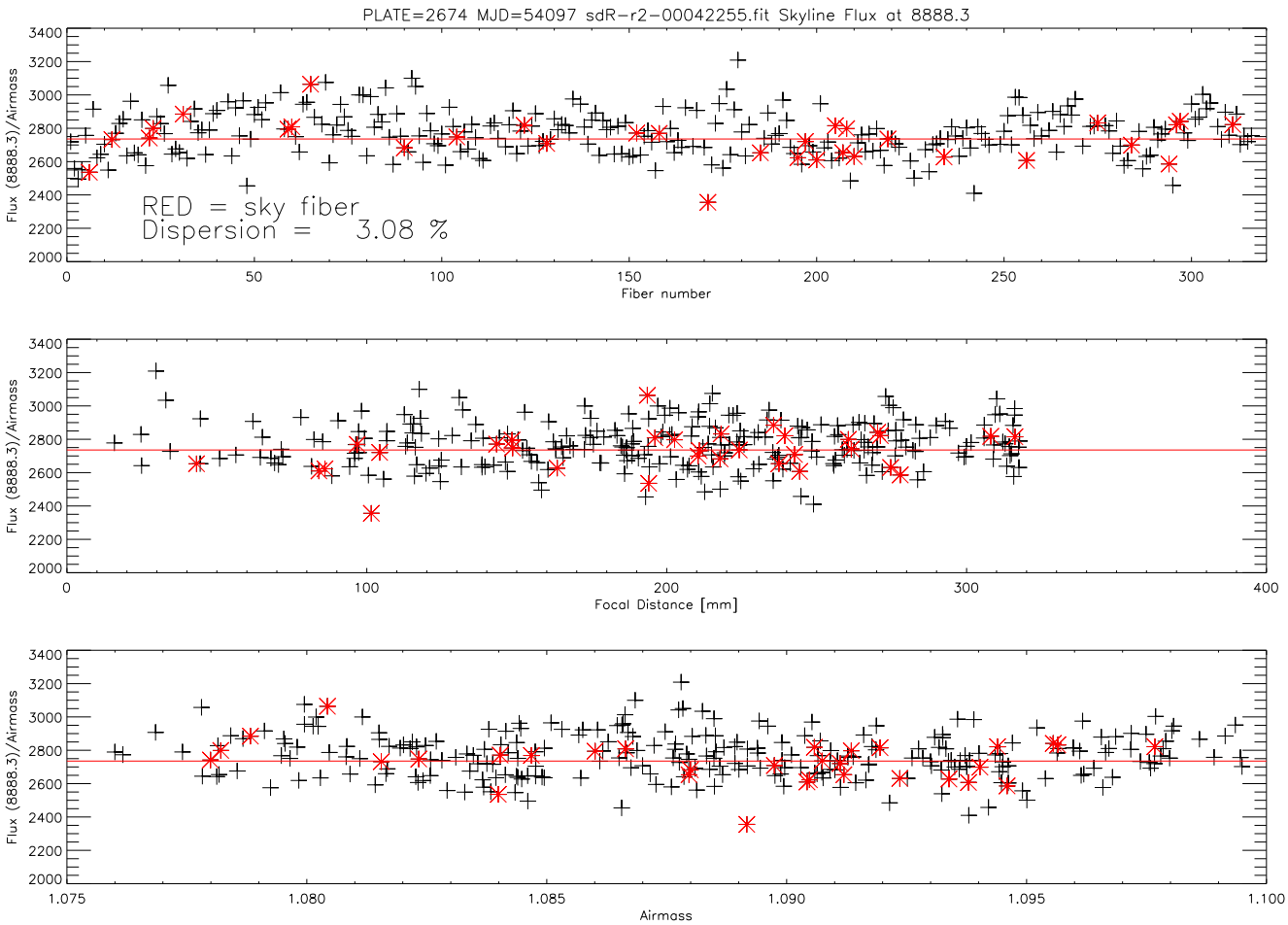

PLATE=2674 MJD=54097 sdR-r2-00042255.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.6
0.5
0.4
0.3
0.2
0.1
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

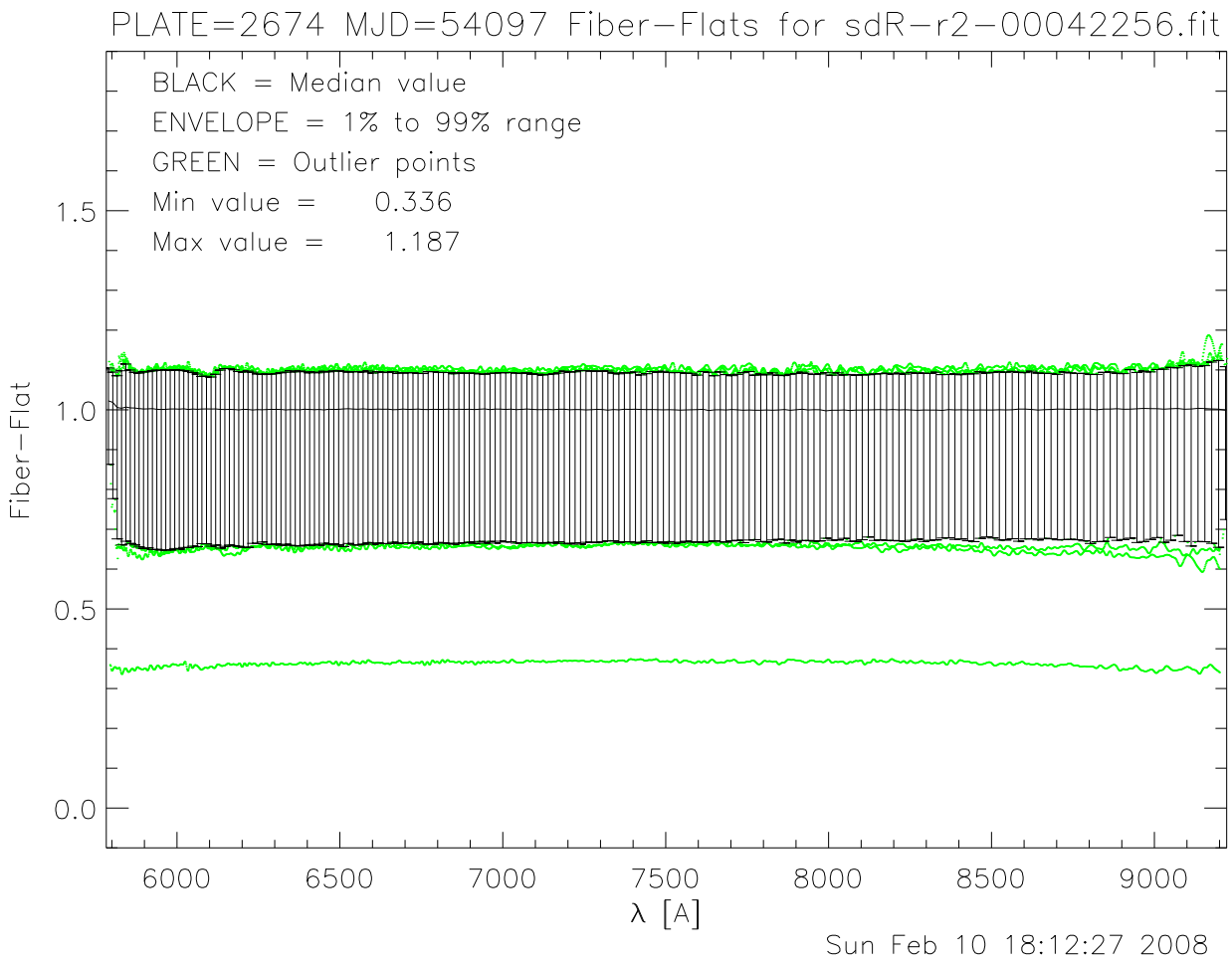

PLATE=2674 MJD=54097 sdR-r2-00042255.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

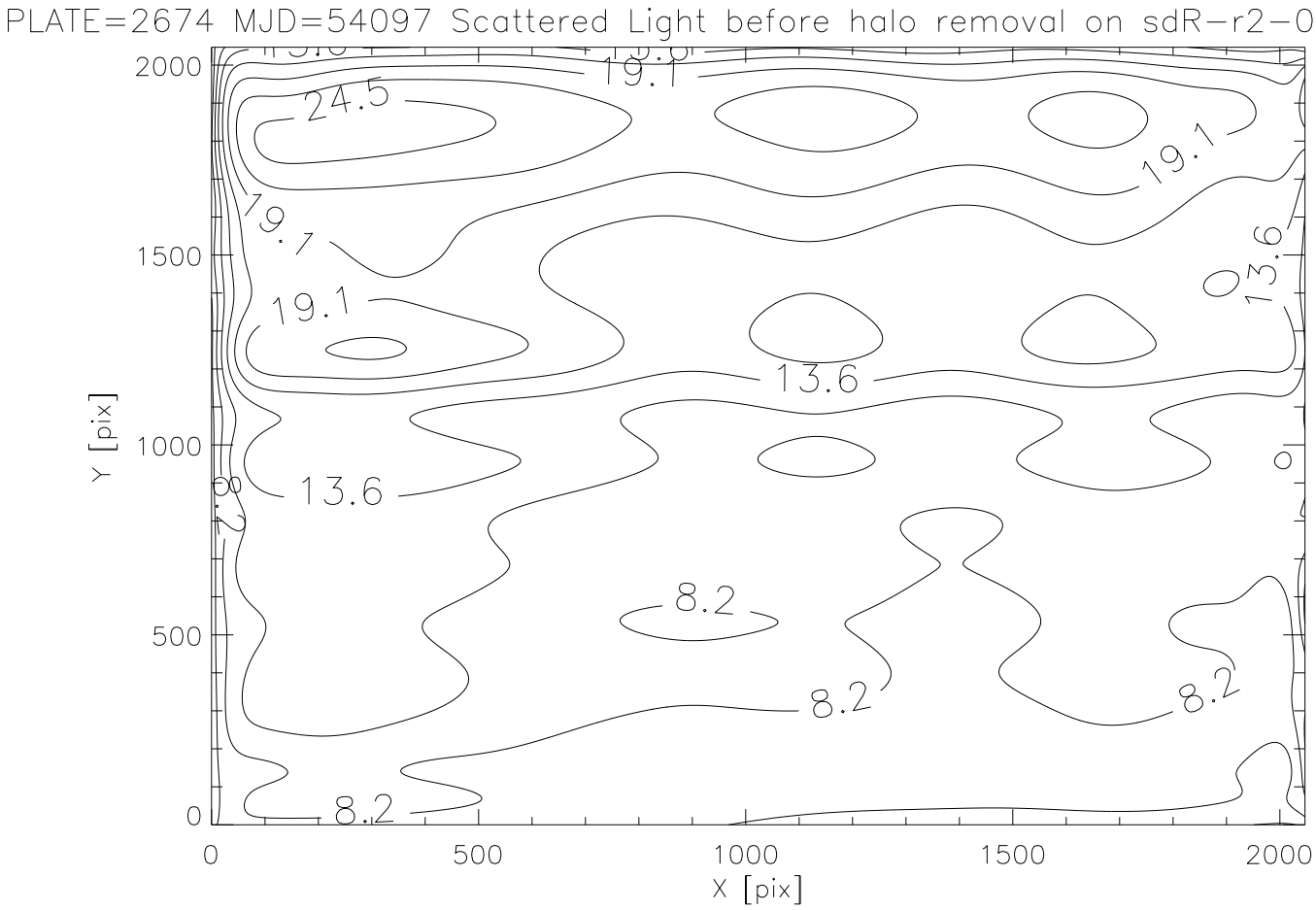

PLATE=2674 MJD=54097 sdR-r2-00042255.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

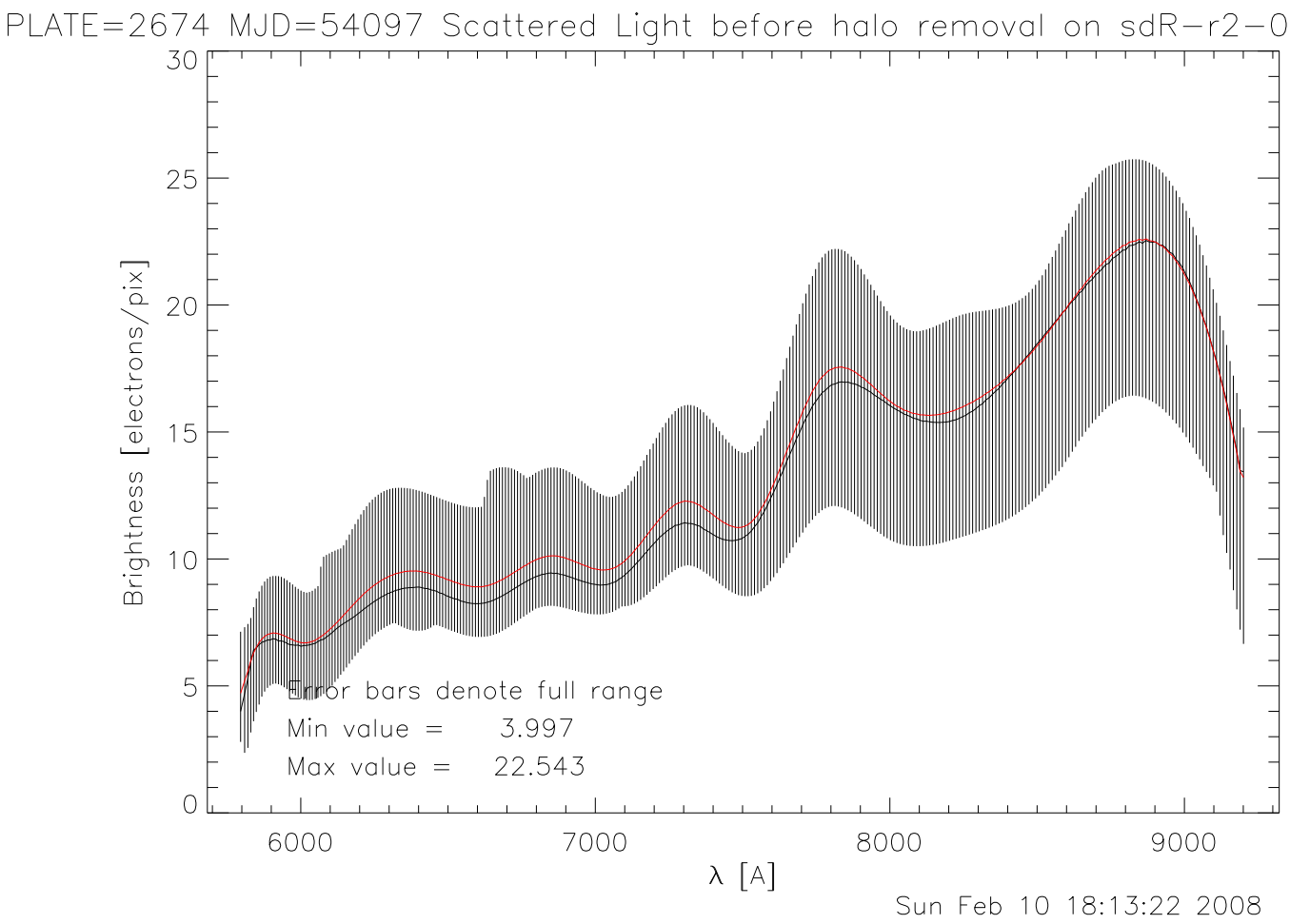

Number of sky fibers = 33
PLATE=2674 MJD=54097 sdR-r2-00042255.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

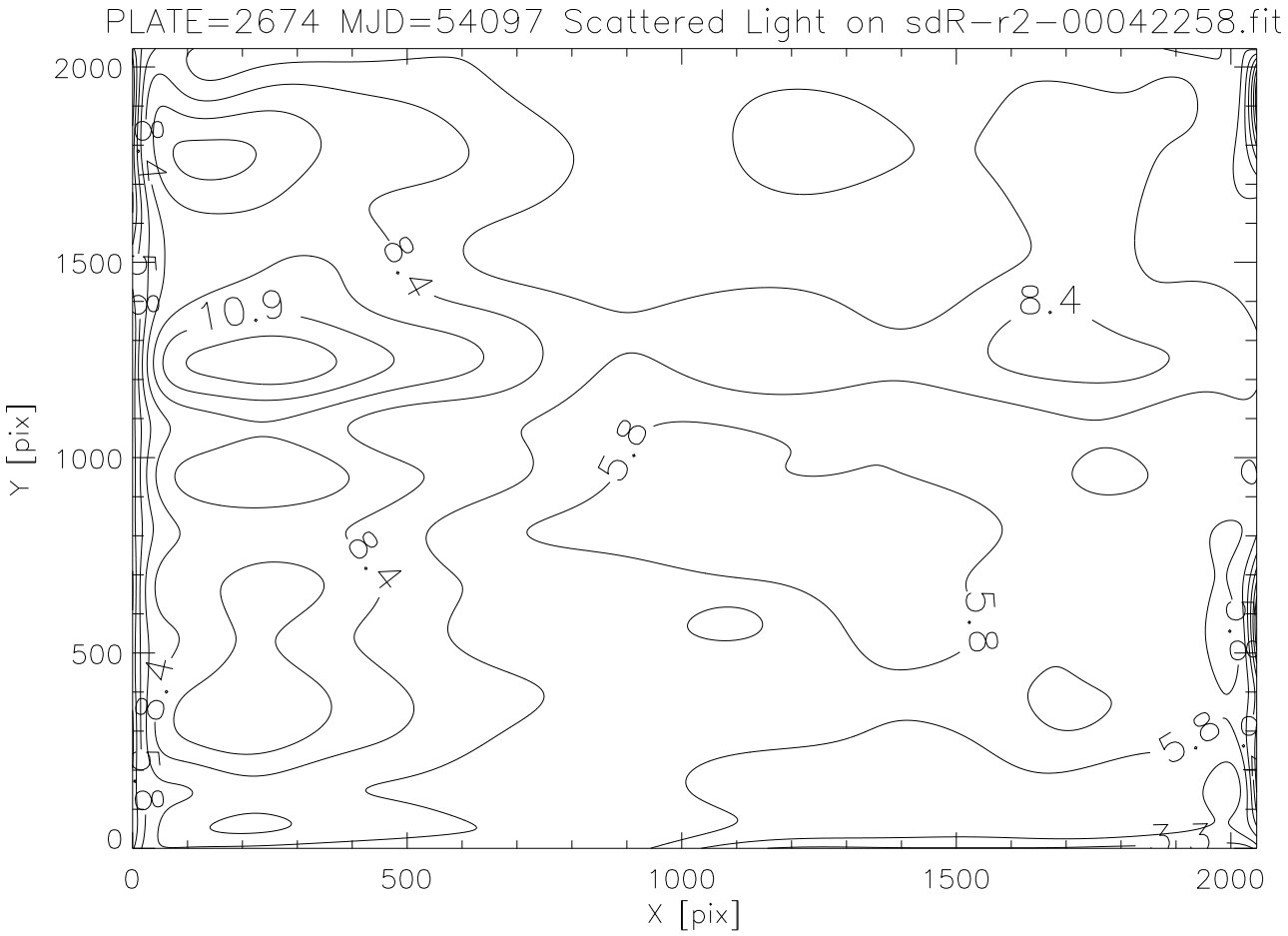

PLATE=2674 MJD=54097 sdR-r2-00042255.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 5.02 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

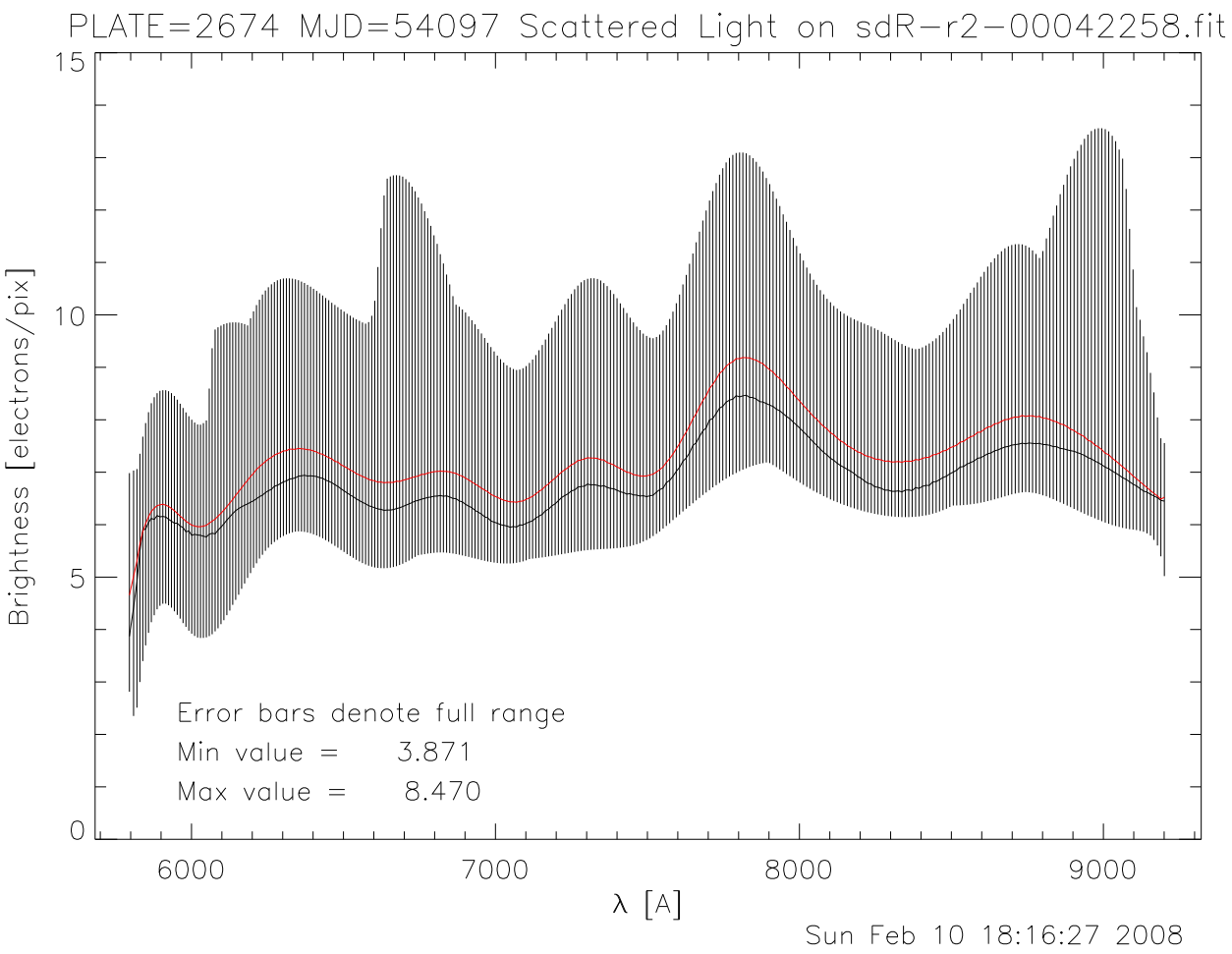

PLATE=2674 MJD=54097 sdR-r2-00042255.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 3.08 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

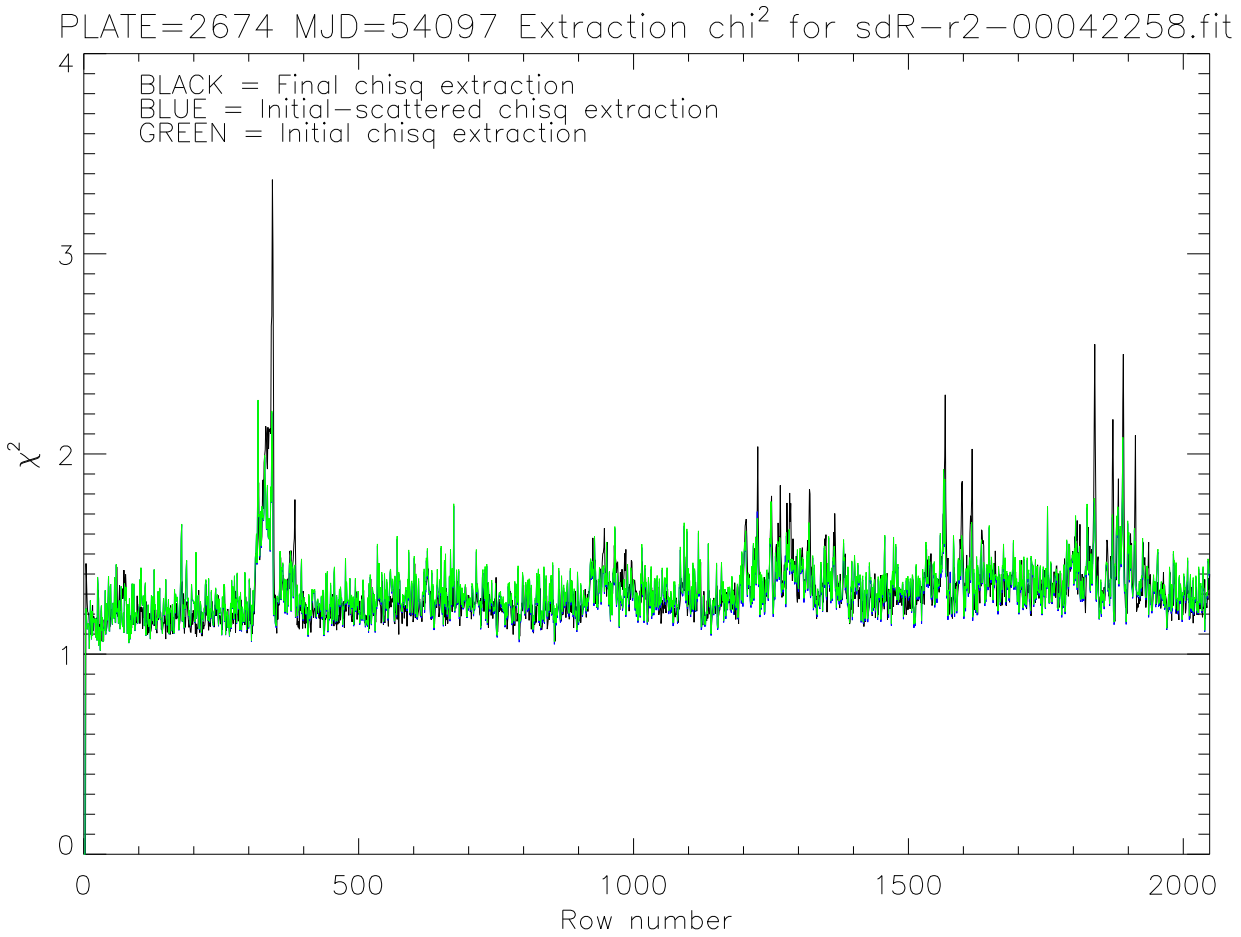

PLATE=2674 MJD=54097 Fiber-Flats for sdR-r2-00042256.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.336
Max value = 1.187
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sun Feb 10 18:12:27 2008

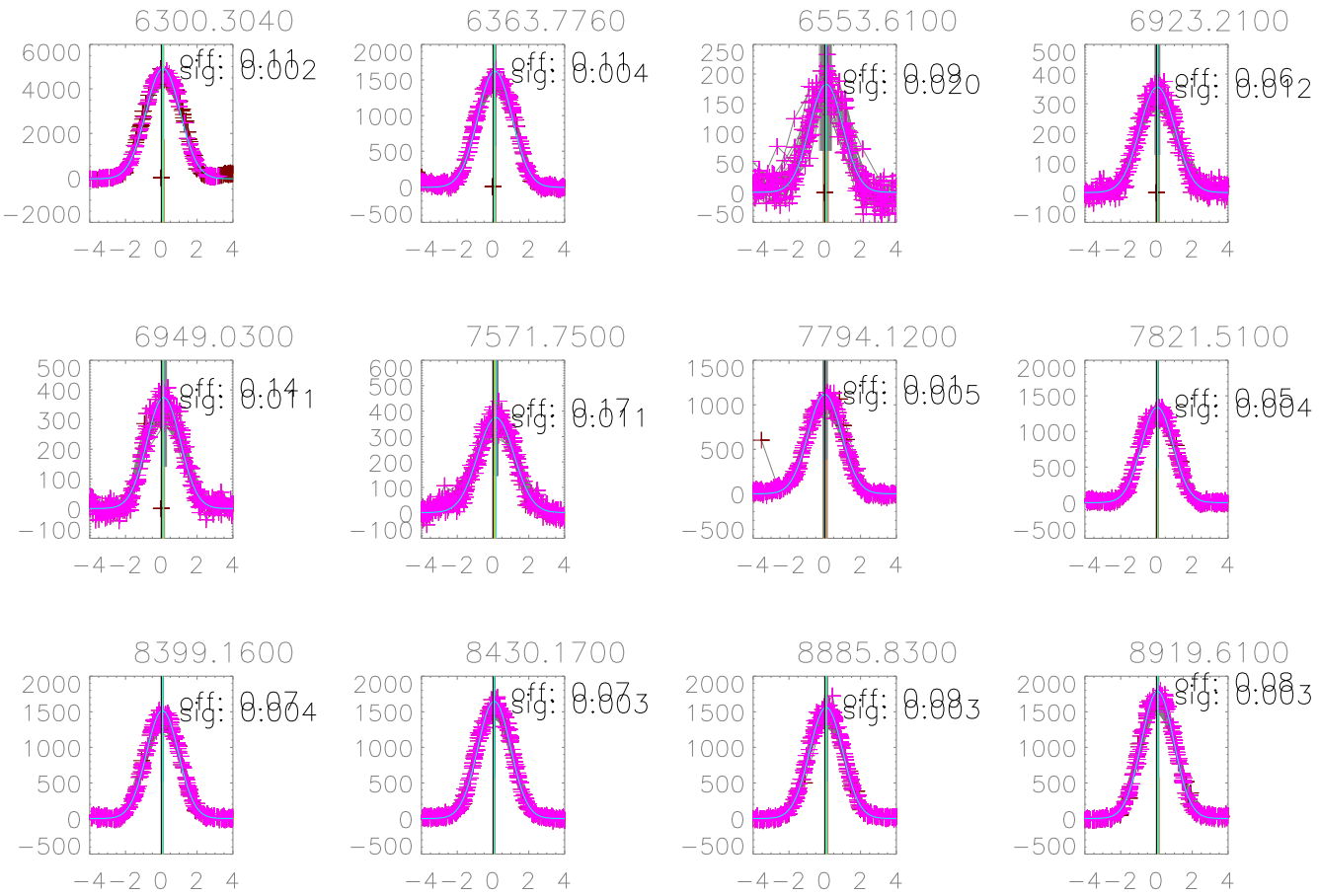

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR-r2-00042258.fi
19.1
24.5
19.1
19.1
13.6
13.6
13.6
8.2
8.2
8.2
8.2
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

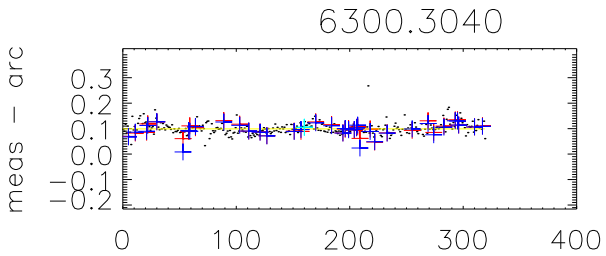

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR-r2-00042258.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.997
Max value = 22.543
Sun Feb 10 18:13:22 2008

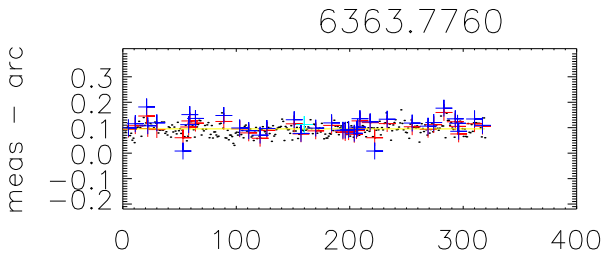

PLATE=2674 MJD=54097 Scattered Light on sdR-r2-00042258.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
10.9
8.4
5.8
3.3

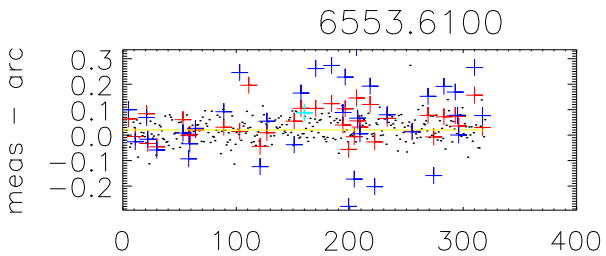

PLATE=2674 MJD=54097 Scattered Light on sdR-r2-00042258.fit
Brightness [electrons/pix]
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 3.871
Max value = 8.470
Sun Feb 10 18:16:27 2008

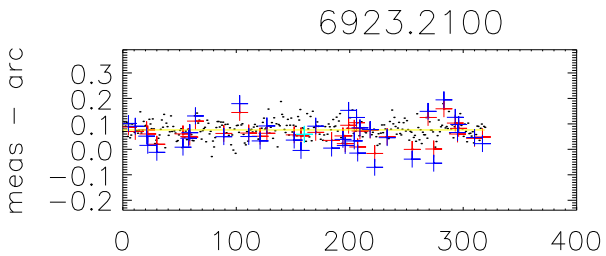

PLATE=2674 MJD=54097 Extraction chi^2 for sdR−r2−00042258.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

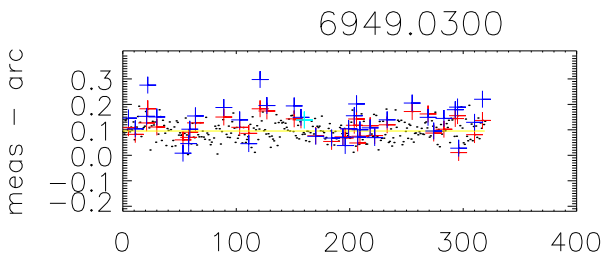

6300.3040
off: 0.11
sig: 0.002
6363.7760
off: 0.11
sig: 0.004
6553.6100
off: 0.08
sig: 0.020
6923.2100
off: 0.06
sig: 0.012
6949.0300
off: 0.14
sig: 0.011
7571.7500
off: 0.17
sig: 0.011
7794.1200
off: 0.01
sig: 0.005
7821.5100
off: 0.05
sig: 0.004
8399.1600
off: 0.07
sig: 0.004
8430.1700
off: 0.07
sig: 0.003
8885.8300
off: 0.08
sig: 0.003
8919.6100
off: 0.08
sig: 0.003

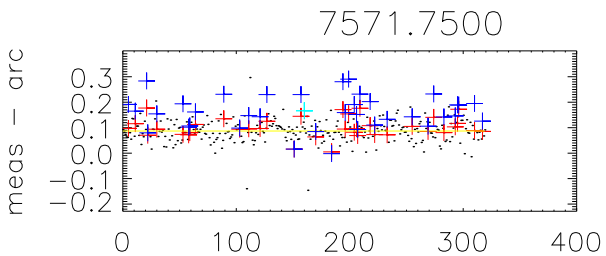

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

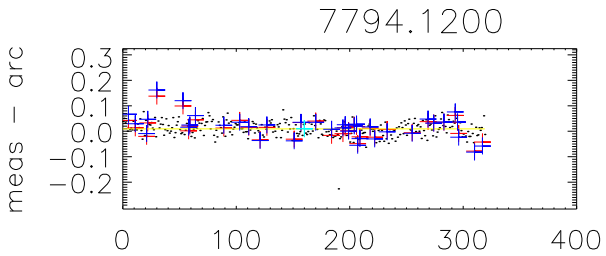

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

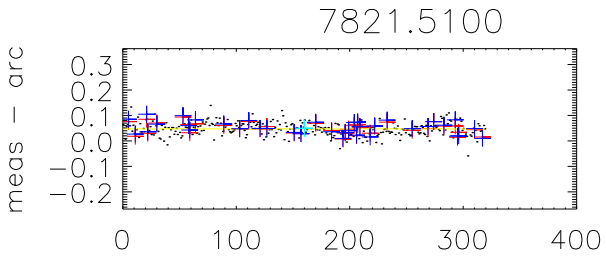

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

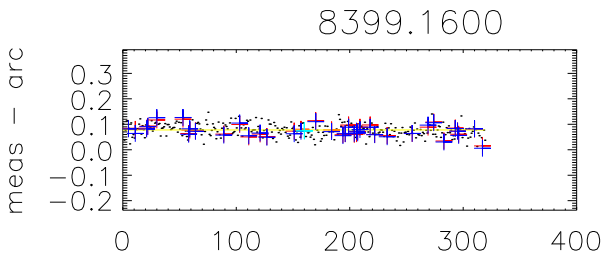

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

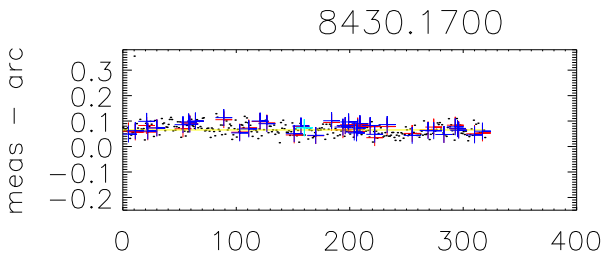

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

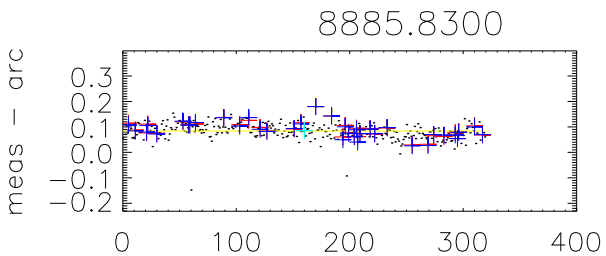

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

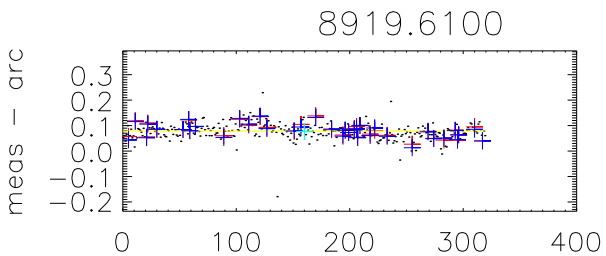

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

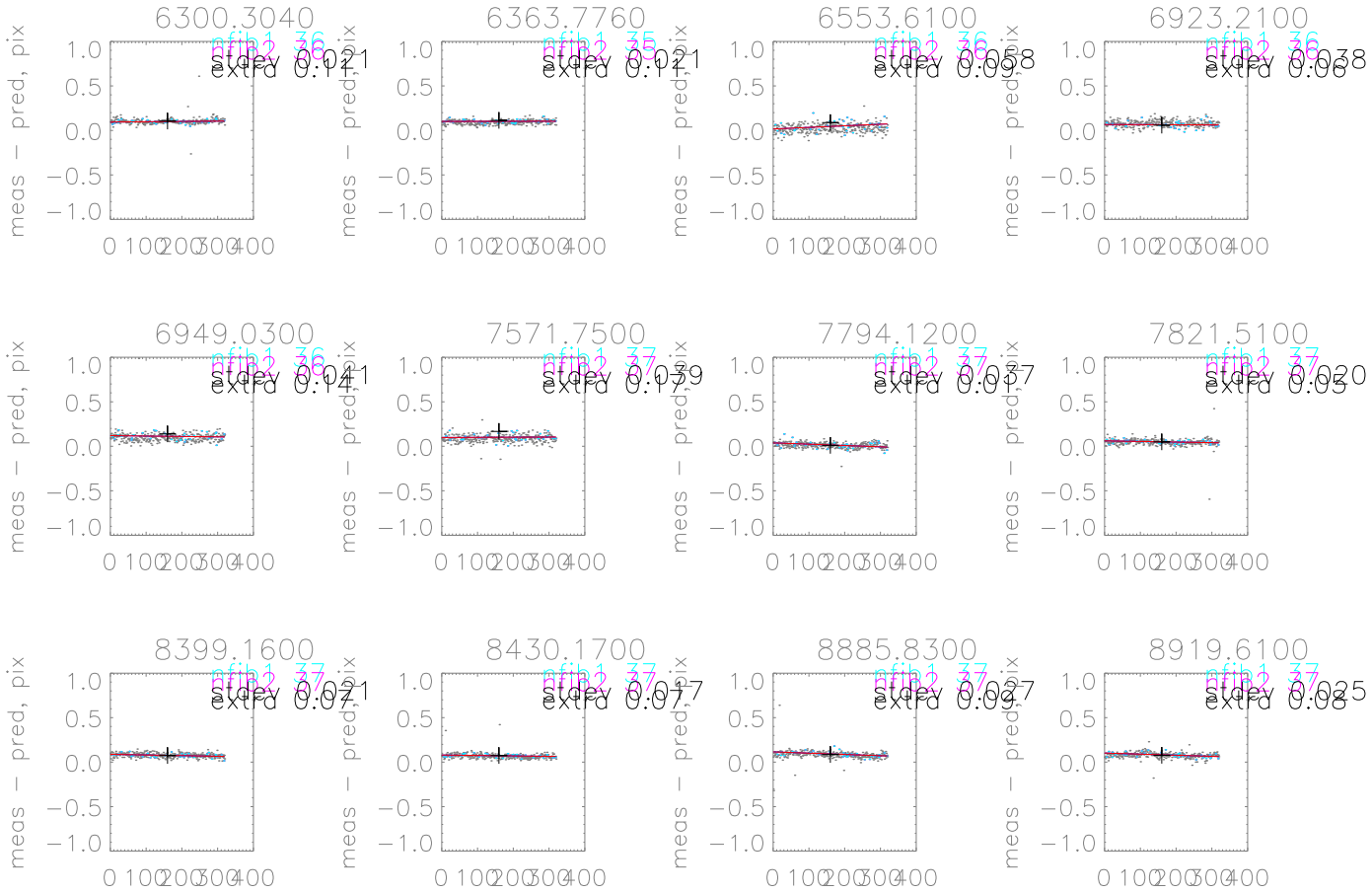

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

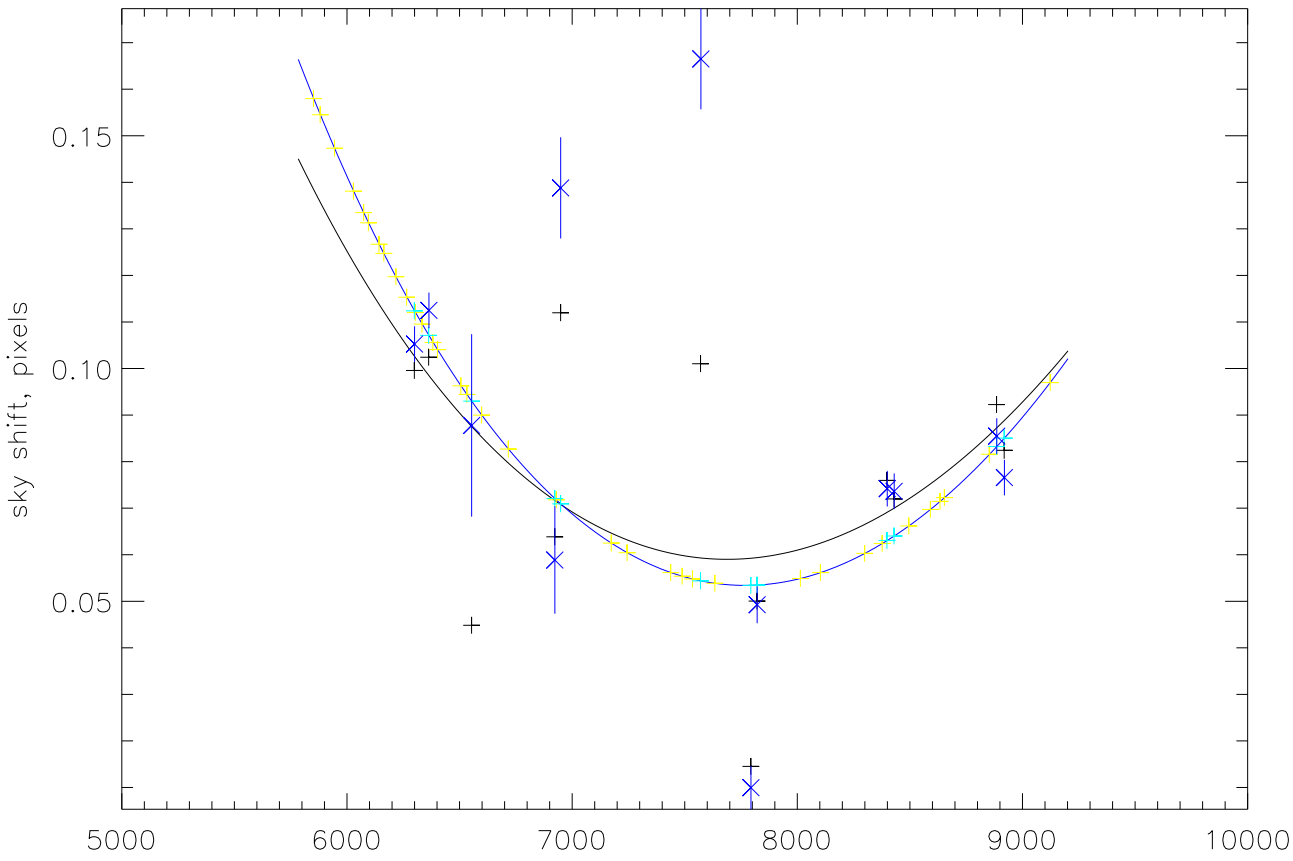

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

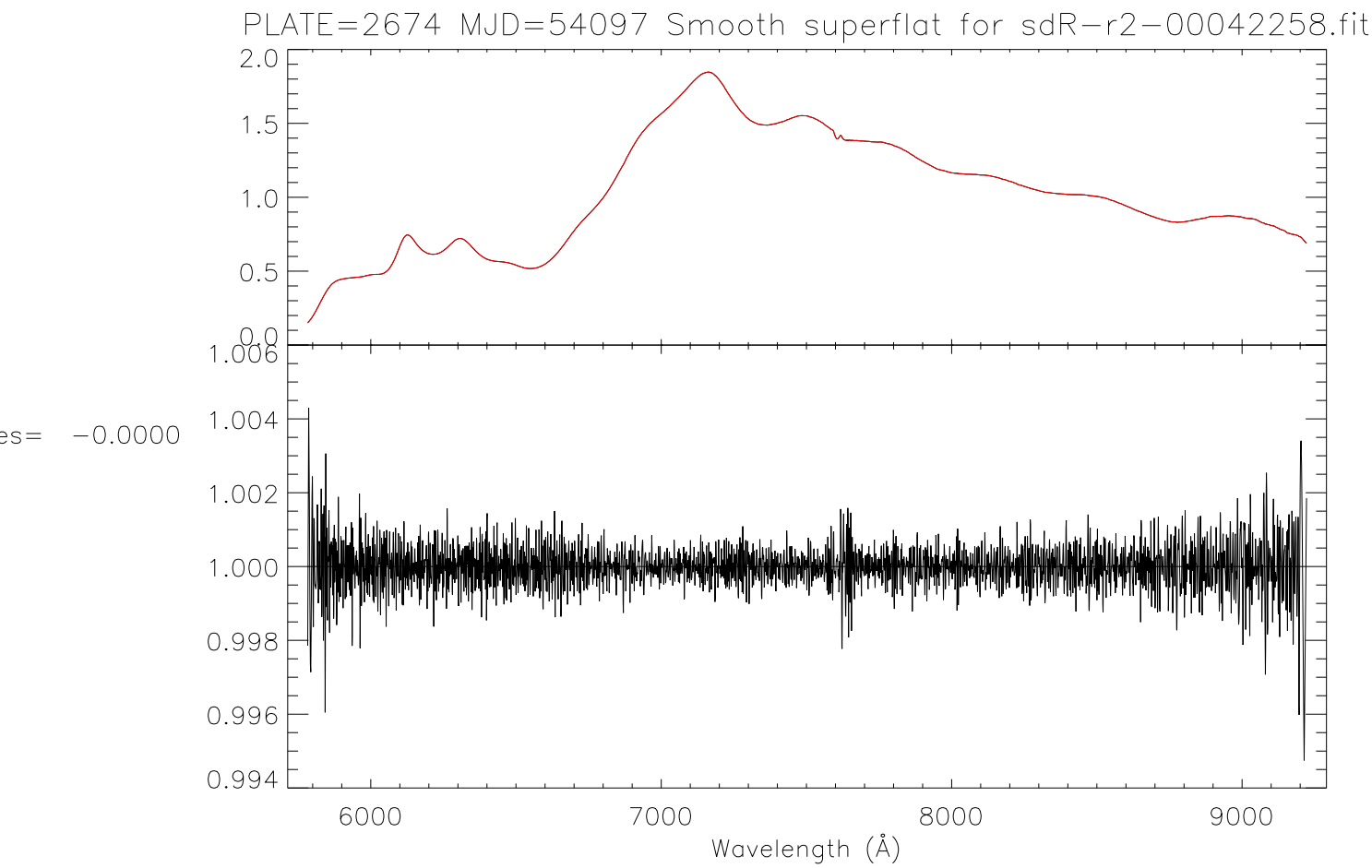

8430.1700
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

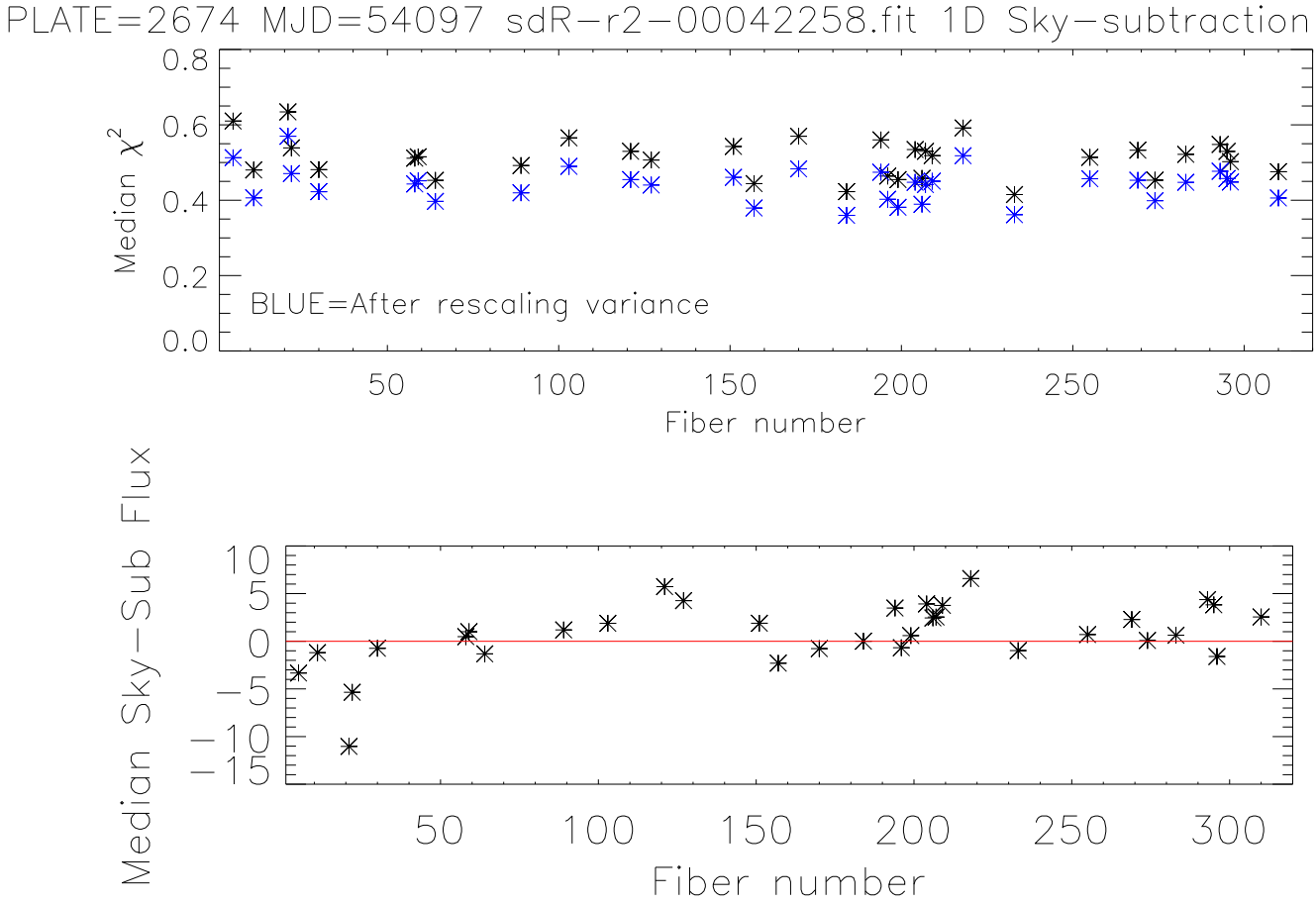

8885.8300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

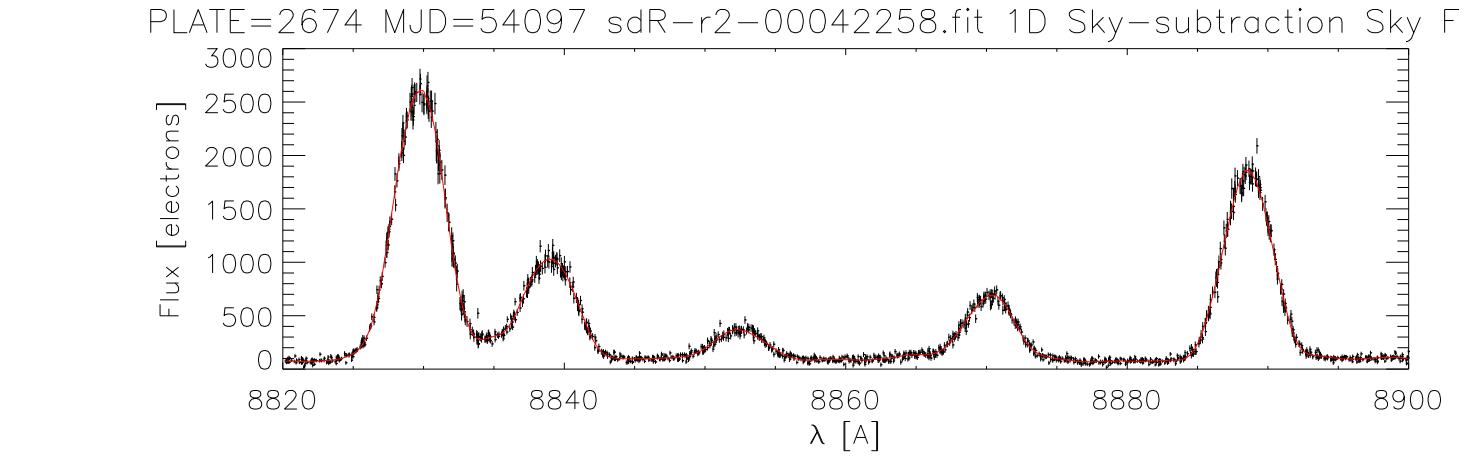

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

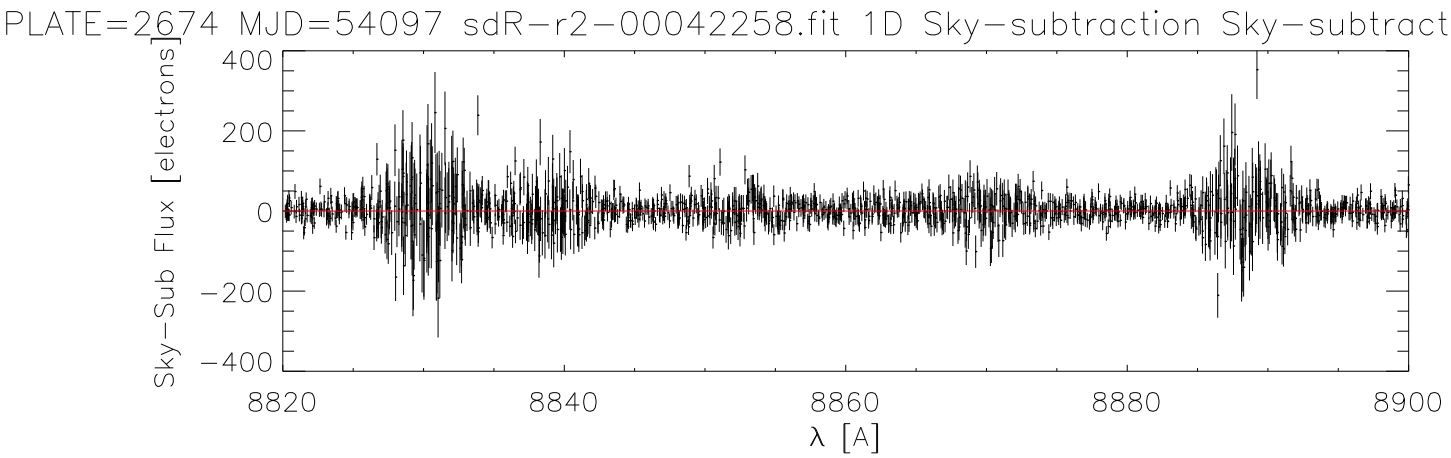

6300.3040
mfhi1 36
mfhi2 36
stdev 0.021
extra 0.021
6363.7760
mfhi1 35
mfhi2 36
stdev 0.021
extra 0.021
6553.6100
mfhi1 36
mfhi2 36
stdev 0.058
extra 0.058
6923.2100
mfhi1 36
mfhi2 36
stdev 0.038
extra 0.038
6949.0300
mfhi1 36
mfhi2 36
stdev 0.041
extra 0.041
7571.7500
mfhi1 37
mfhi2 37
stdev 0.039
extra 0.039
7794.1200
mfhi1 37
mfhi2 37
stdev 0.037
extra 0.037
7821.5100
mfhi1 37
mfhi2 37
stdev 0.020
extra 0.020
8399.1600
mfhi1 37
mfhi2 37
stdev 0.021
extra 0.021
8430.1700
mfhi1 37
mfhi2 37
stdev 0.017
extra 0.017
8885.8300
mfhi1 37
mfhi2 37
stdev 0.027
extra 0.027
8919.6100
mfhi1 37
mfhi2 37
stdev 0.025
extra 0.025
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

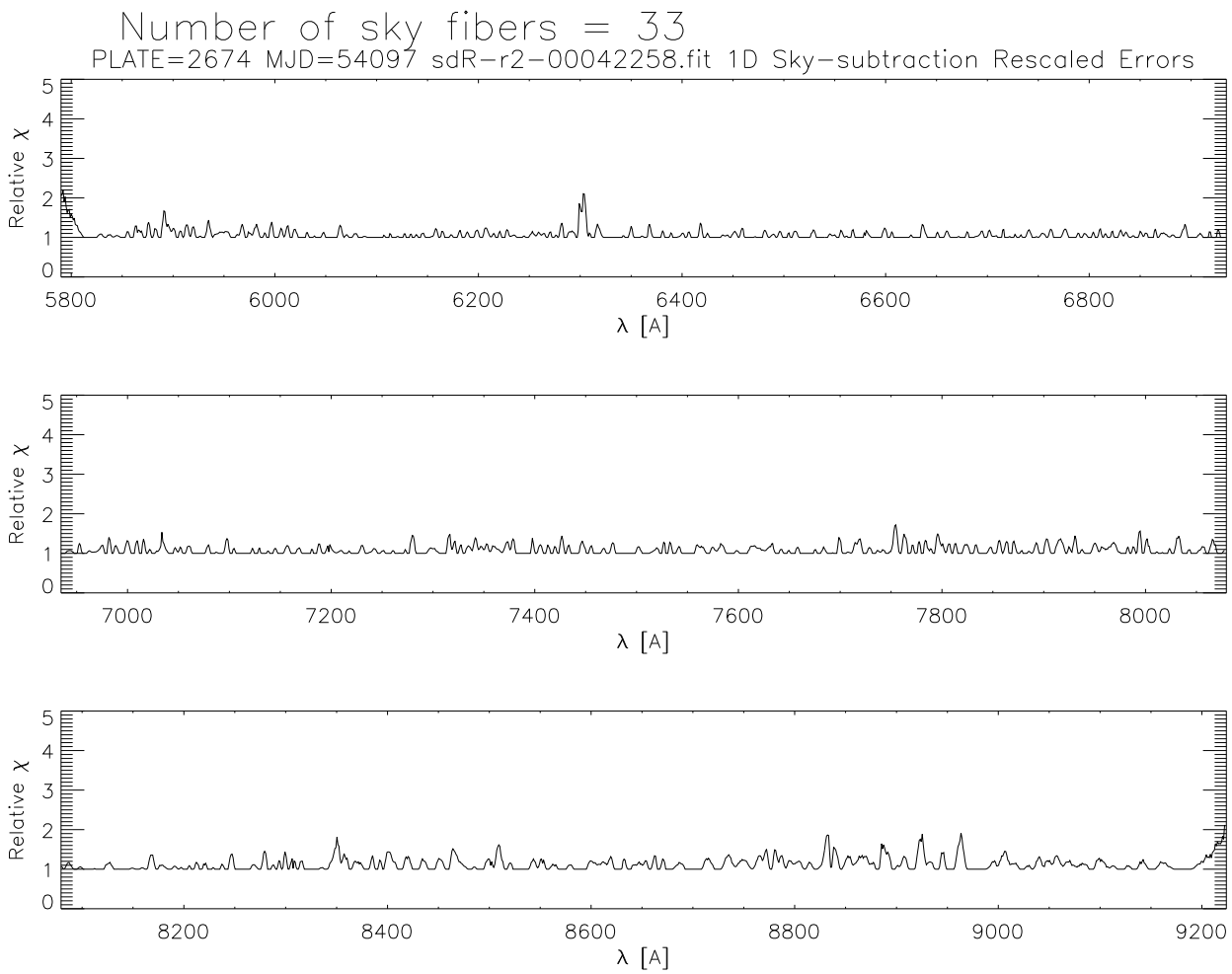

sky shift, pixels
0.15
0.10
0.05
5000
6000
7000
8000
9000
10000

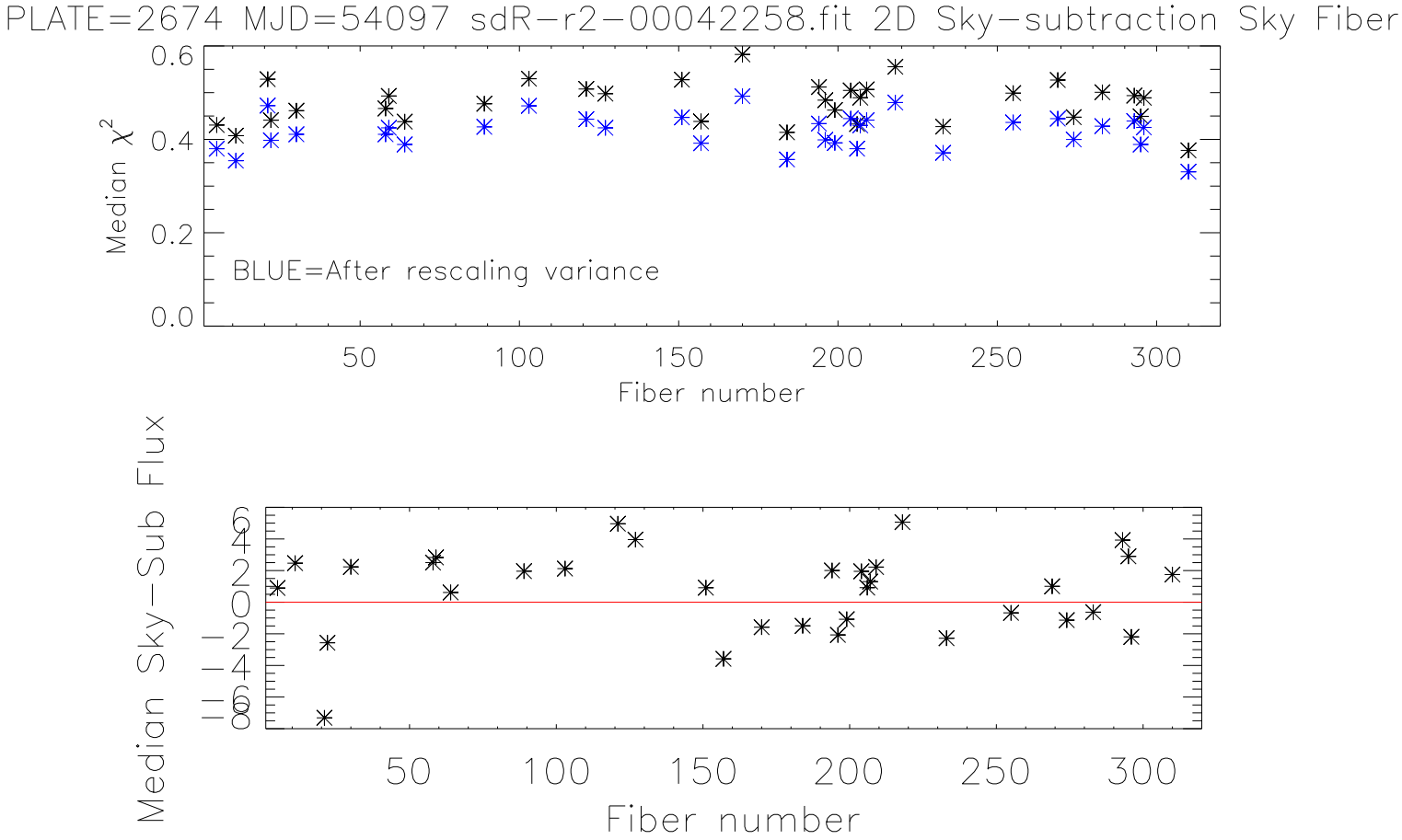

PLATE=2674 MJD=54097 Smooth superflat for sdR-r2-00042258.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

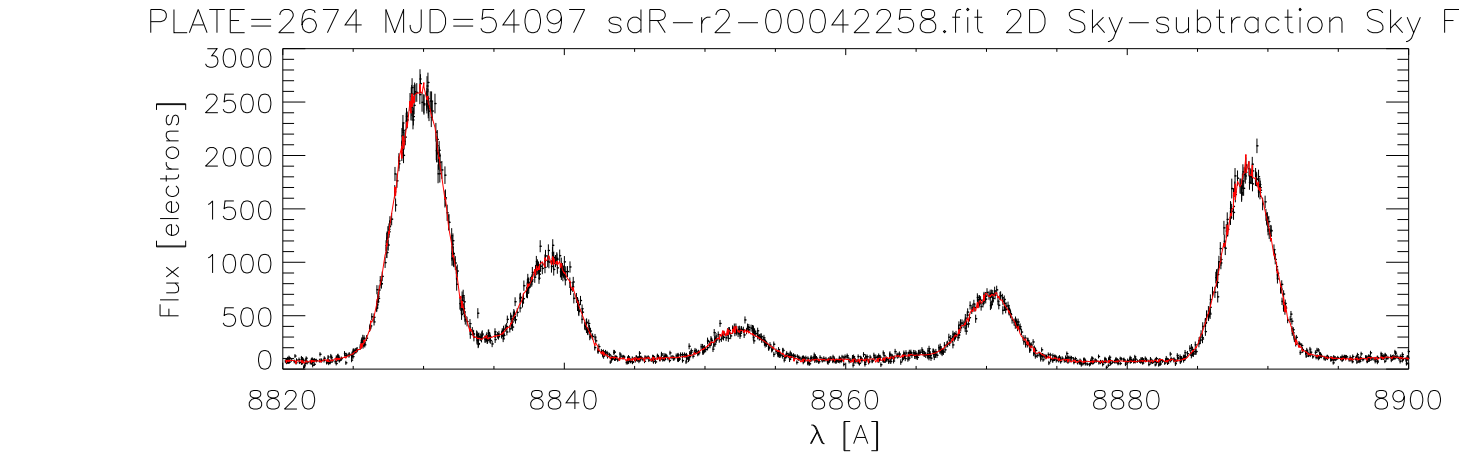

PLATE=2674 MJD=54097 sdR-r2-00042258.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

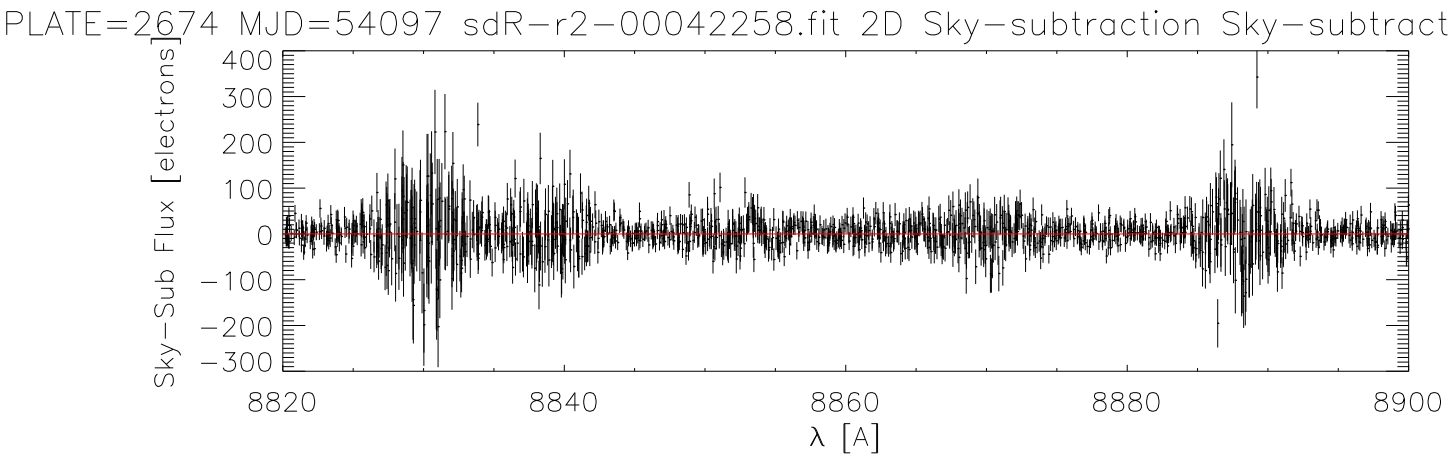

PLATE=2674 MJD=54097 sdR-r2-00042258.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

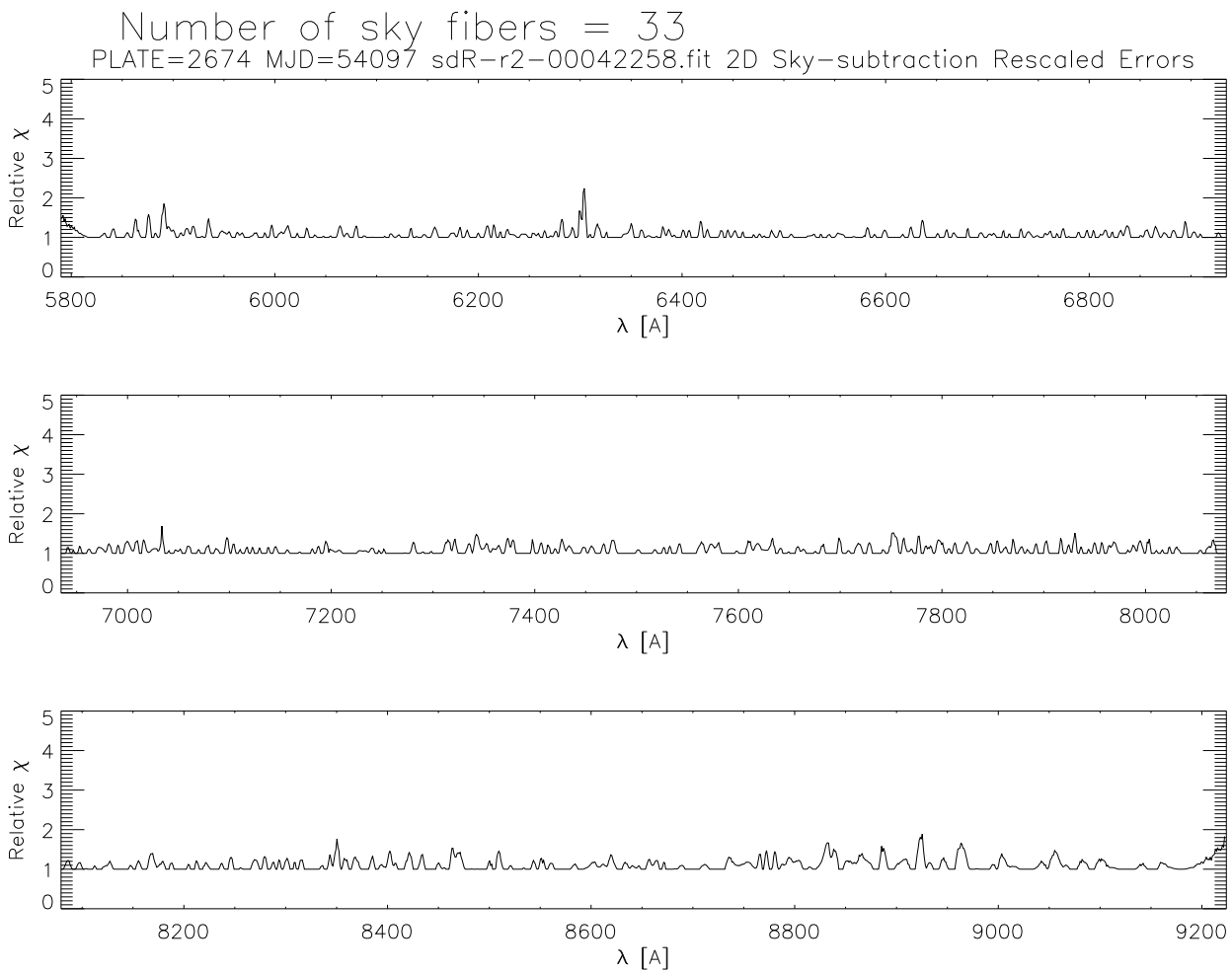

PLATE=2674 MJD=54097 sdR-r2-00042258.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

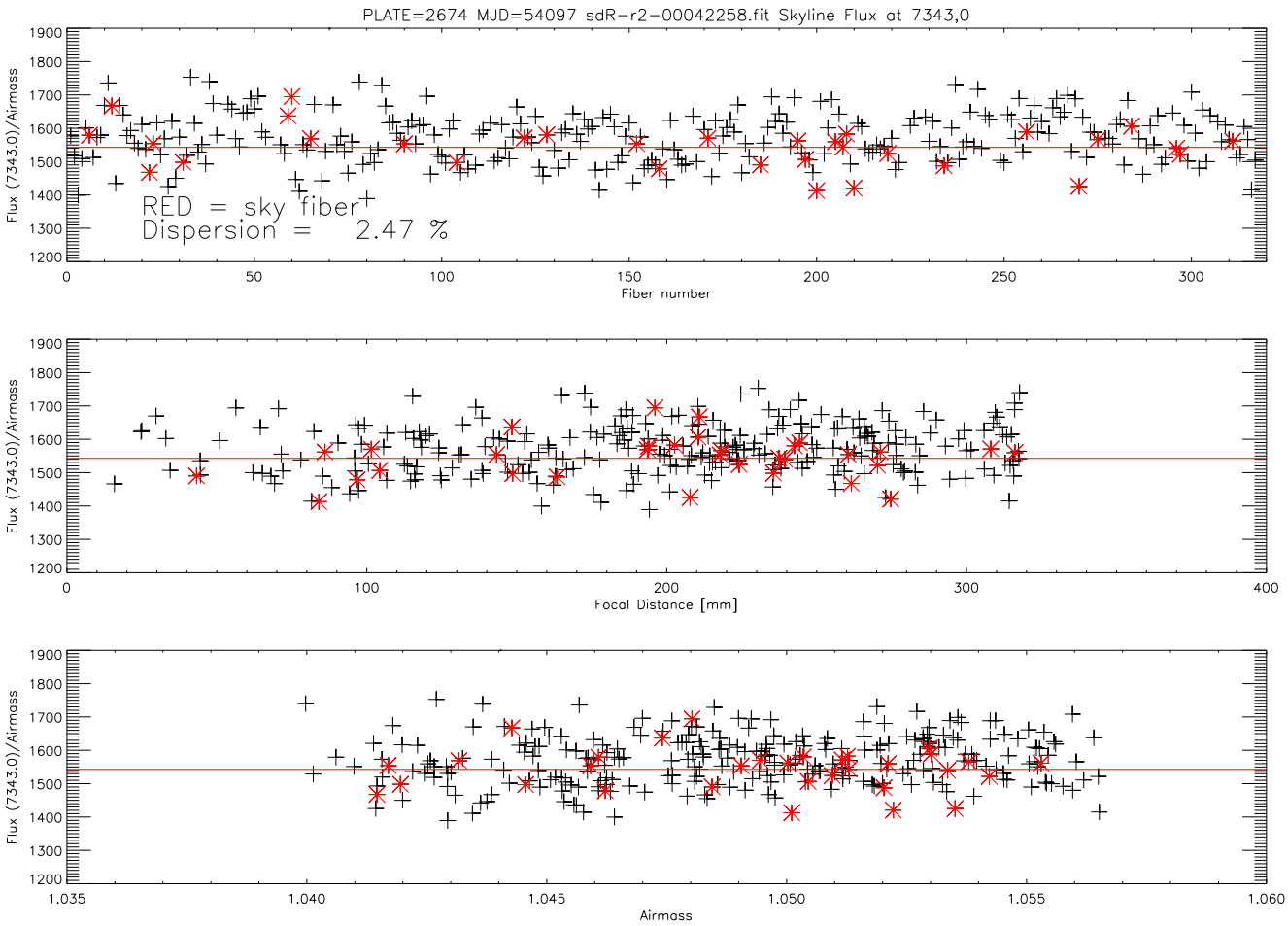

Number of sky fibers = 33
PLATE=2674 MJD=54097 sdR-r2-00042258.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

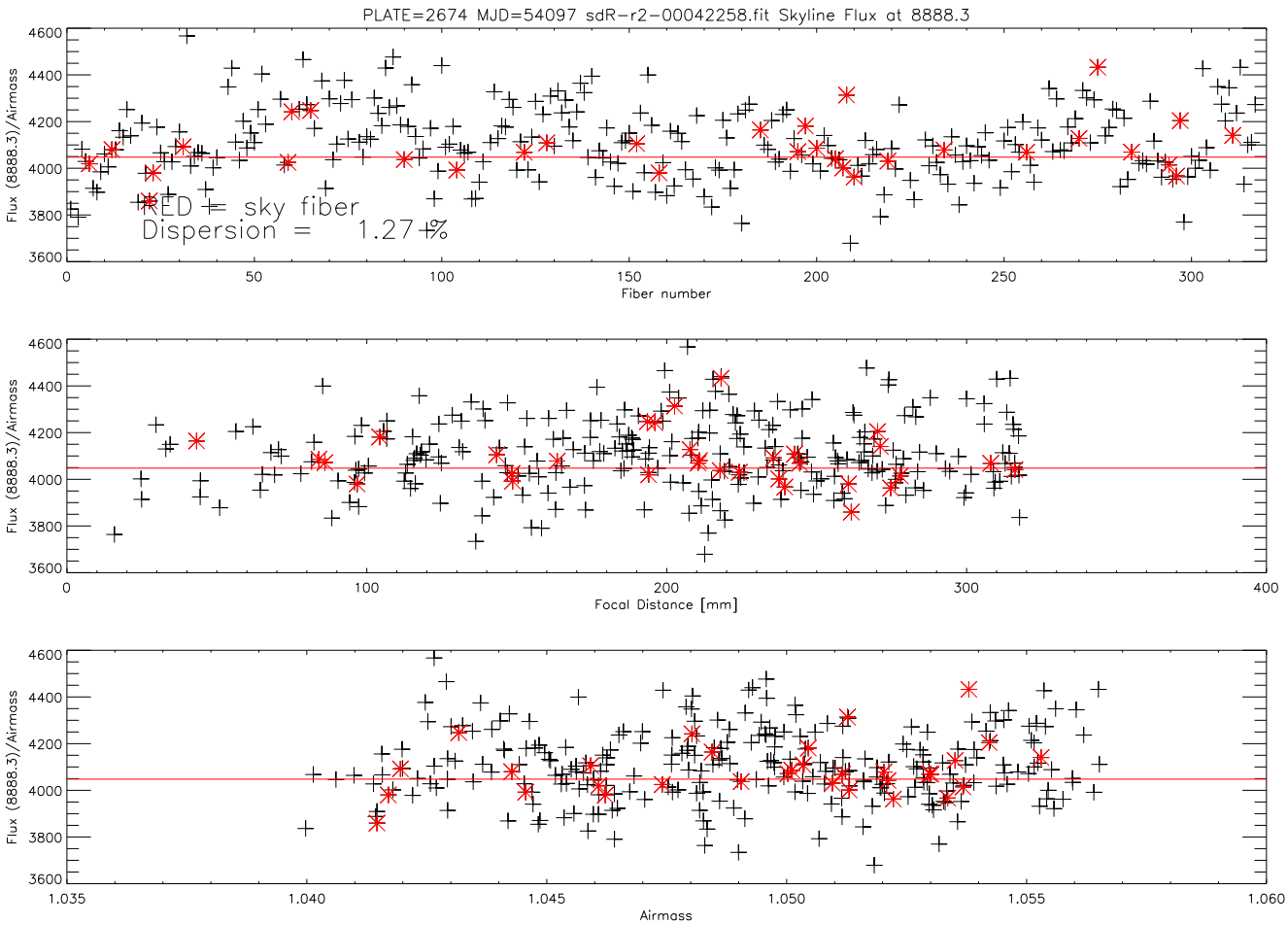

PLATE=2674 MJD=54097 sdR-r2-00042258.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

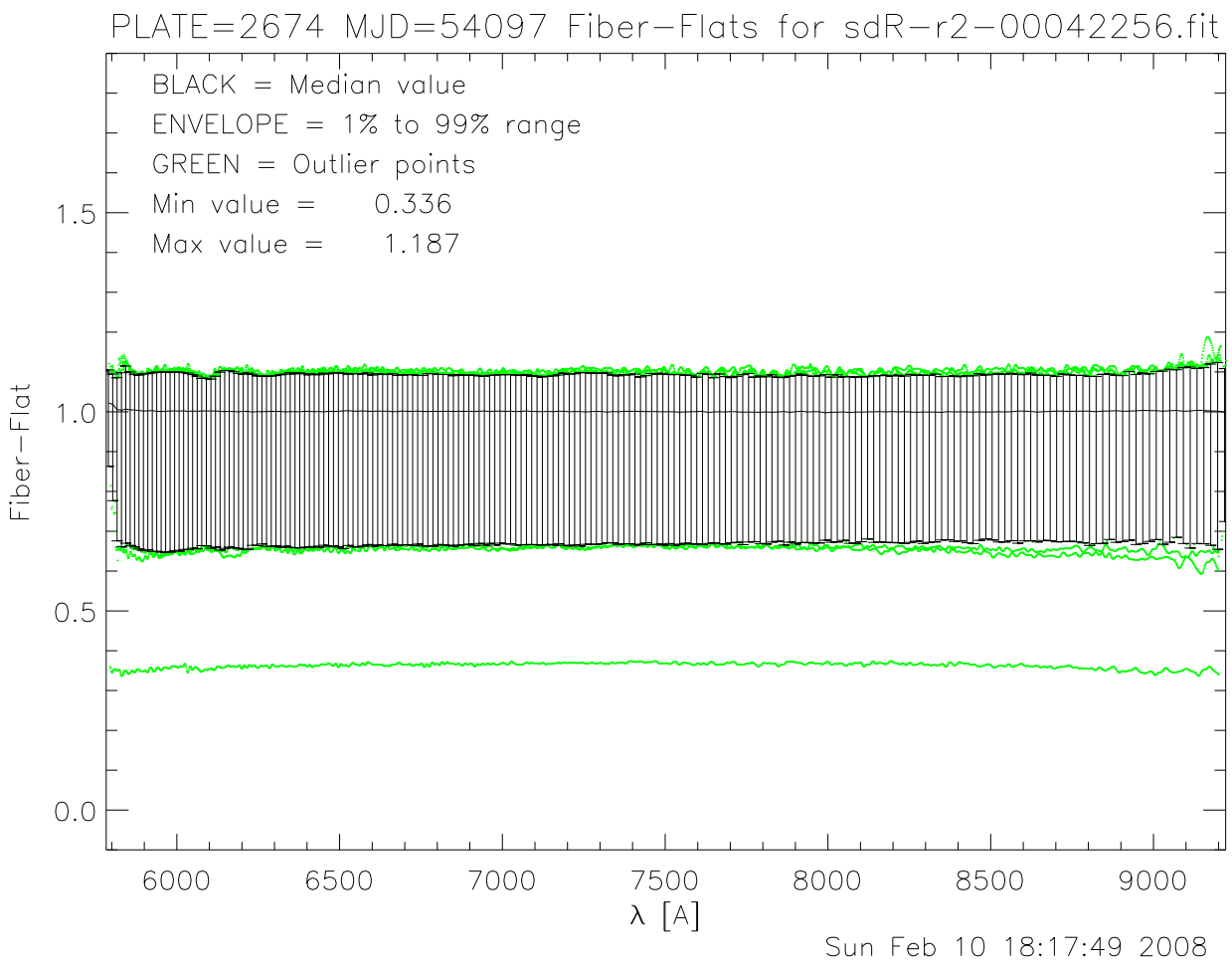

PLATE=2674 MJD=54097 sdR-r2-00042258.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

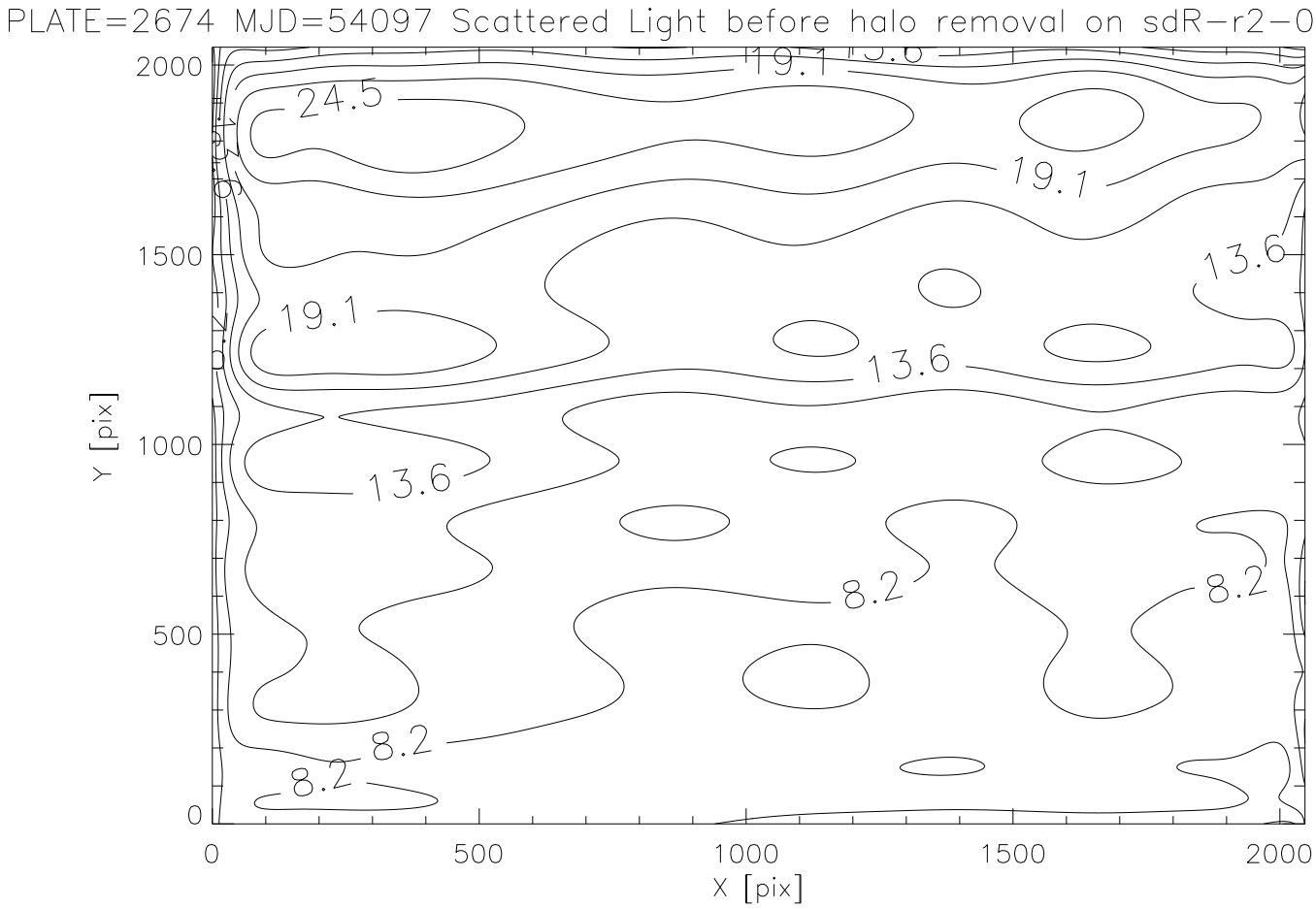

PLATE=2674 MJD=54097 sdR-r2-00042258.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

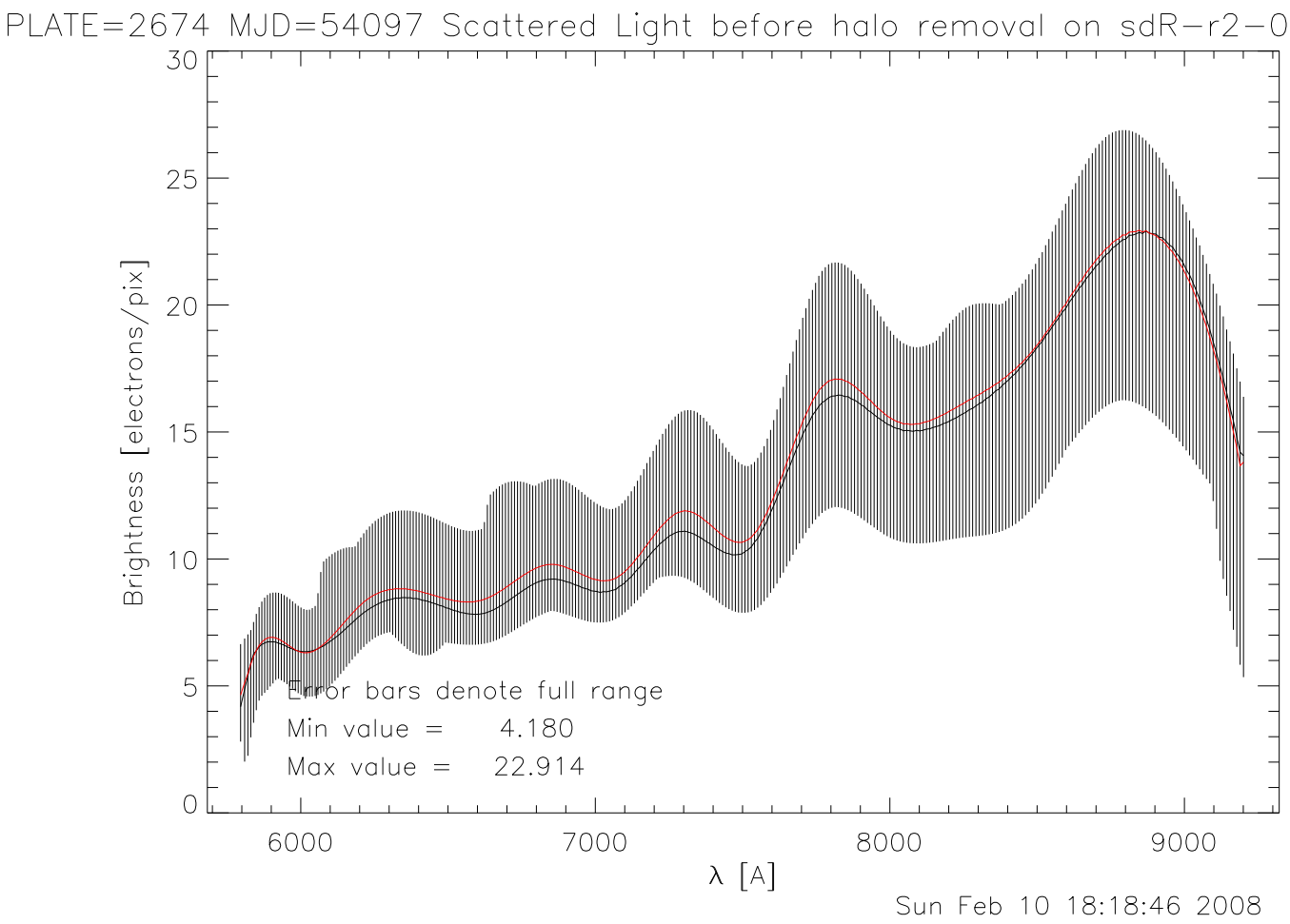

Number of sky fibers = 33
PLATE=2674 MJD=54097 sdR-r2-00042258.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

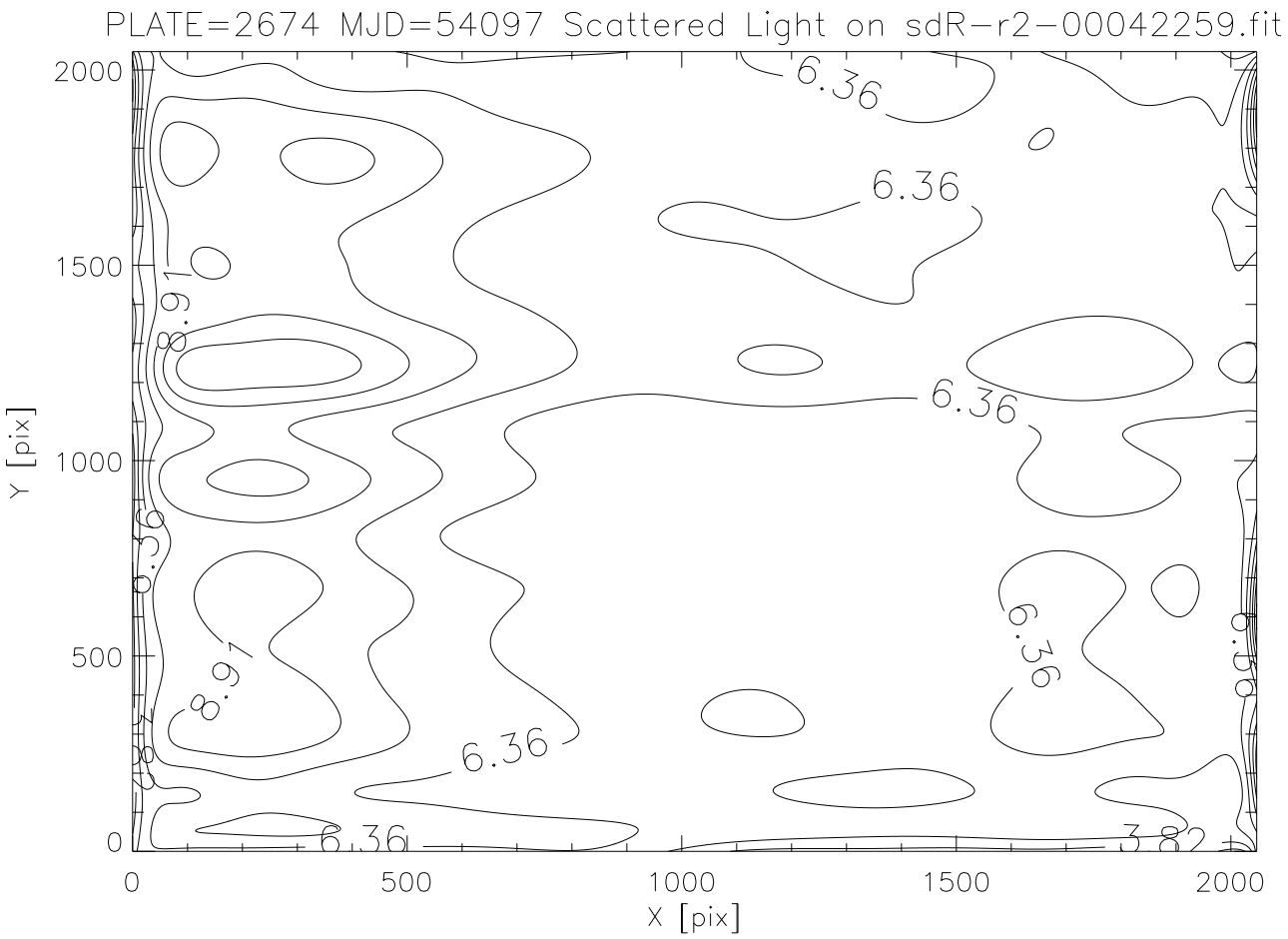

PLATE=2674 MJD=54097 sdR-r2-00042258.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.47 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

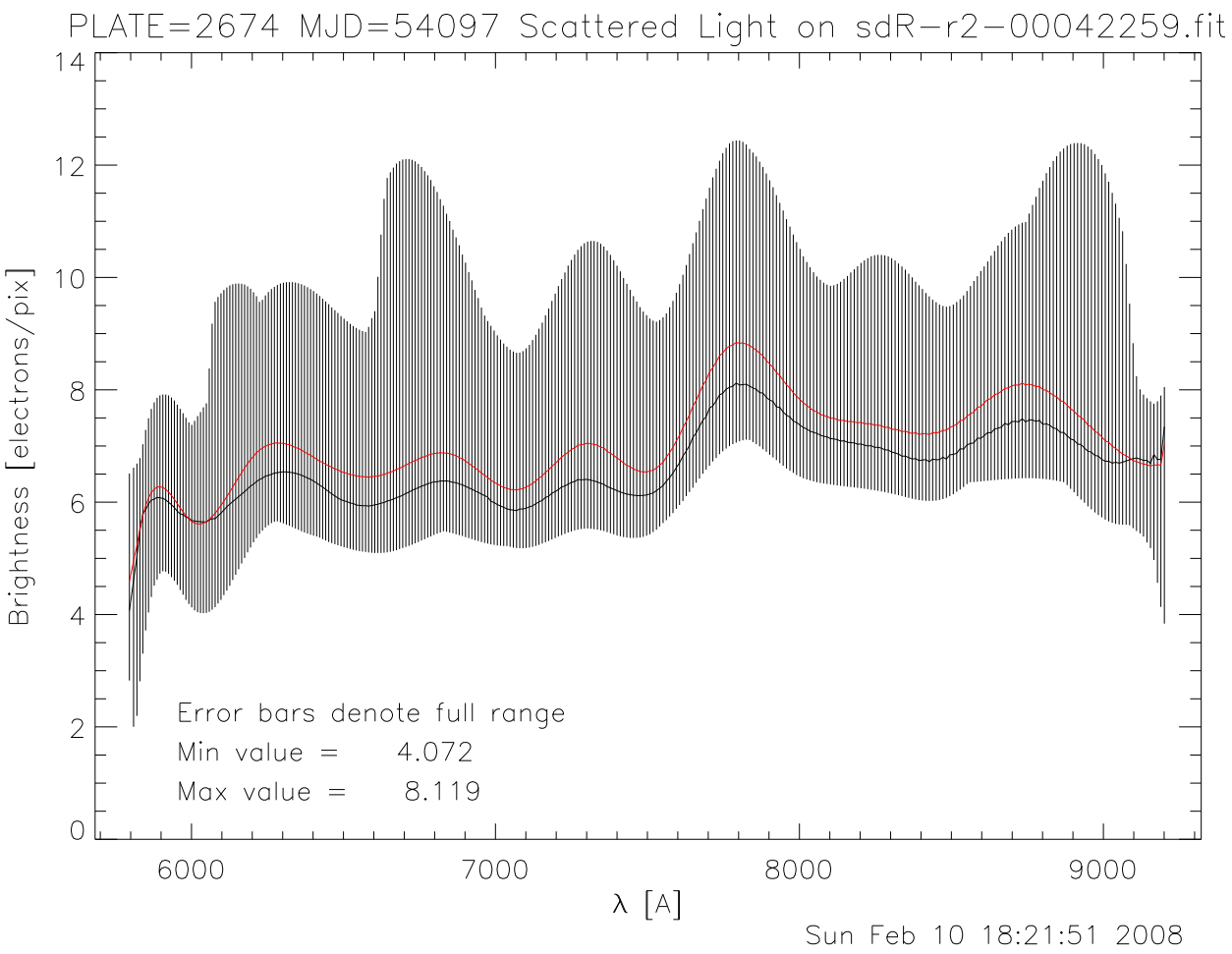

PLATE=2674 MJD=54097 sdR-r2-00042258.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.27%
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

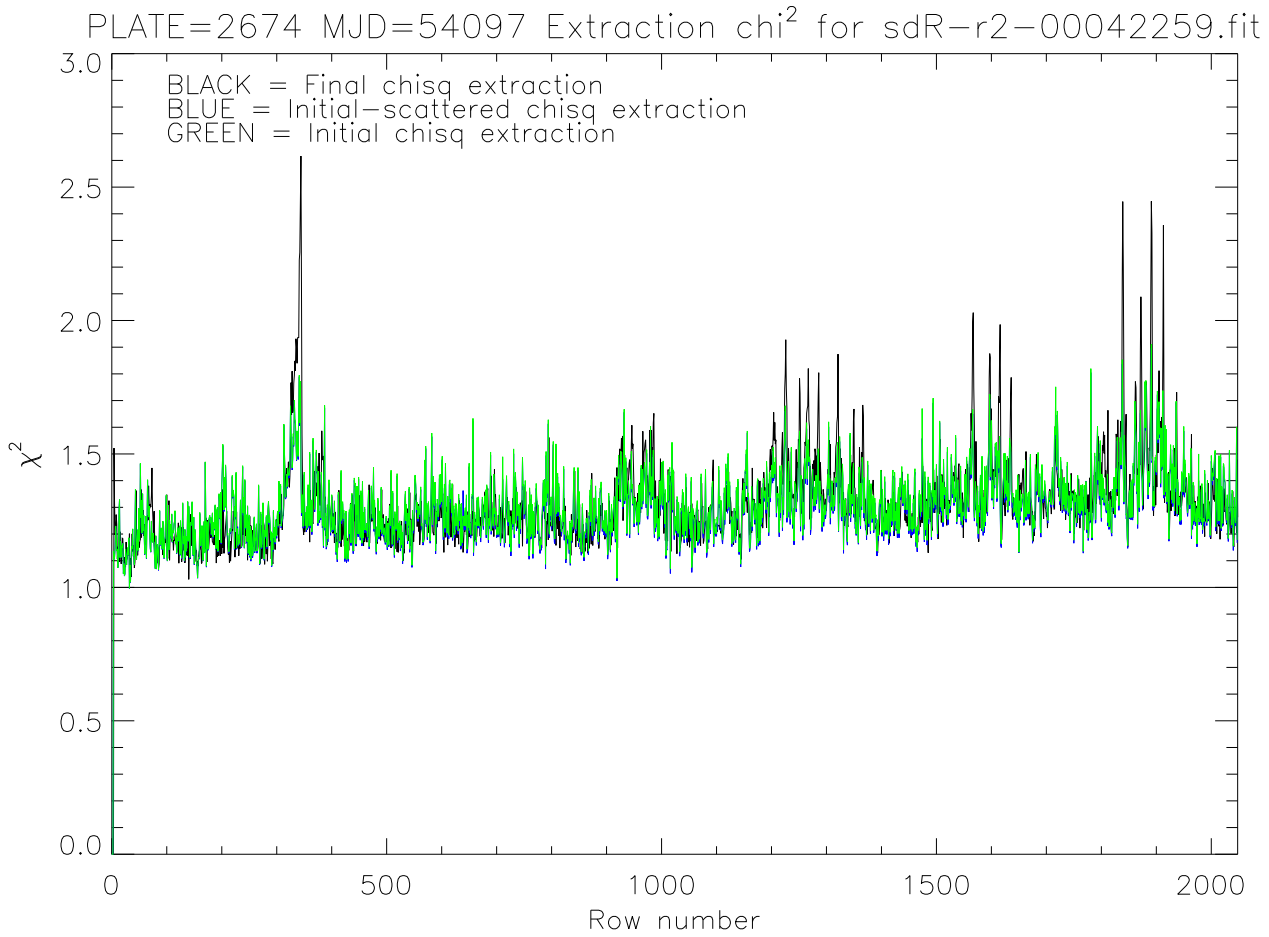

PLATE=2674 MJD=54097 Fiber−Flats for sdR−r2−00042256.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.336
Max value = 1.187
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sun Feb 10 18:17:49 2008

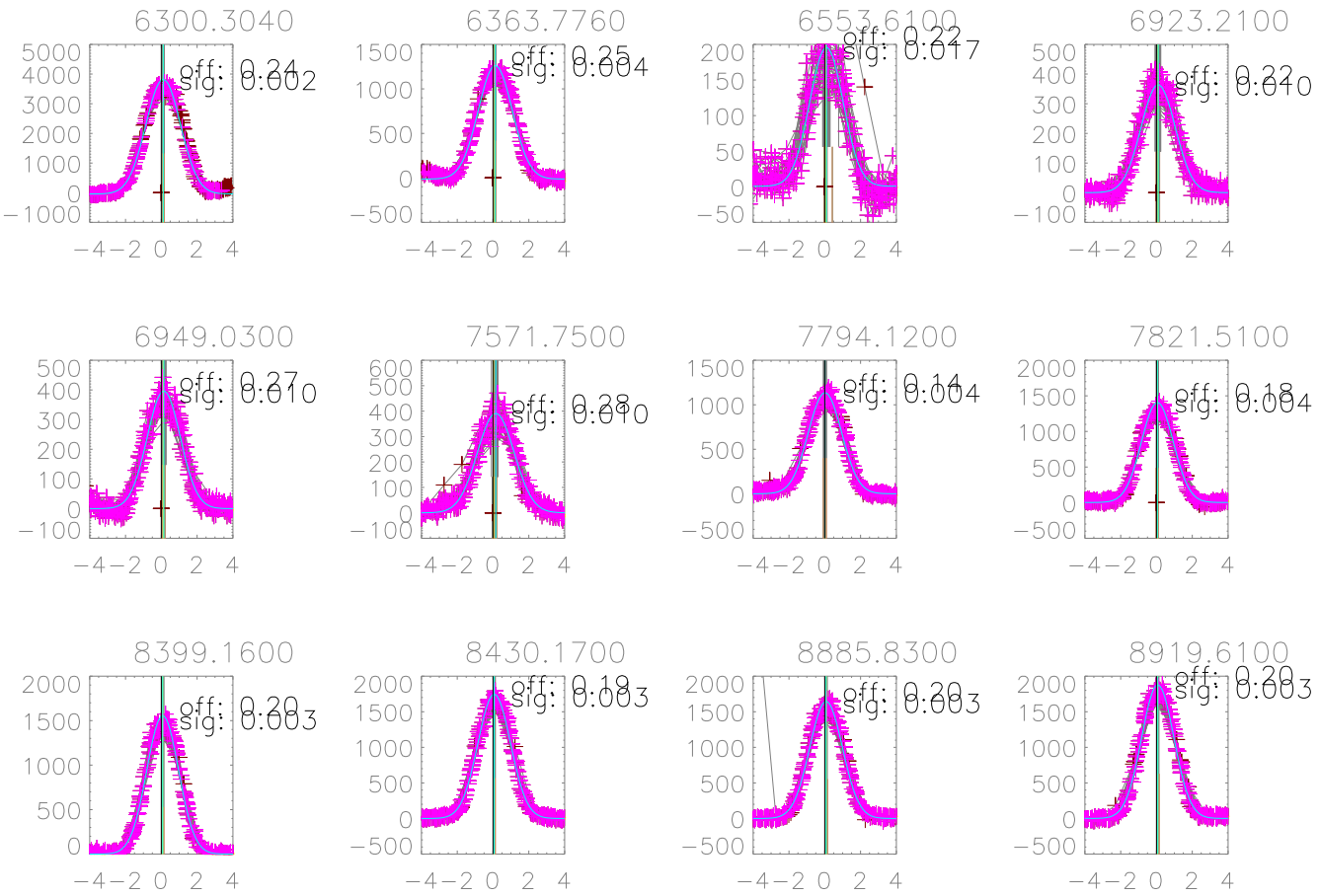

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR-r2-00042259.fi
24.5
19.1
13.6
8.2
Y [pix]
X [pix]
0
500
1000
1500
2000

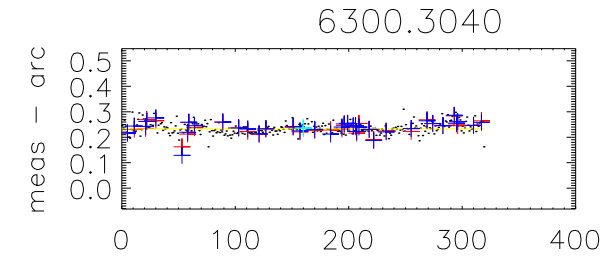

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR-r2-00042259.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.180
Max value = 22.914
Sun Feb 10 18:18:46 2008

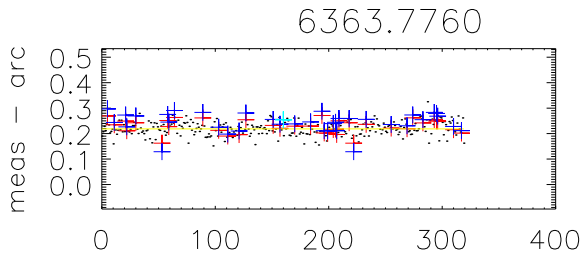

PLATE=2674 MJD=54097 Scattered Light on sdR-r2-00042259.fit
6.36
6.36
6.36
6.36
6.36
6.36
8.91
8.91
3.82
Y [pix]
X [pix]
0
500
1000
1500
2000

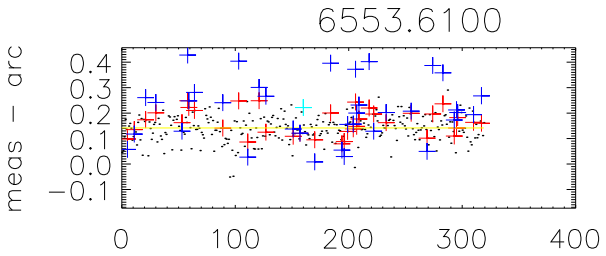

PLATE=2674 MJD=54097 Scattered Light on sdR-r2-00042259.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.072
Max value = 8.119
Sun Feb 10 18:21:51 2008

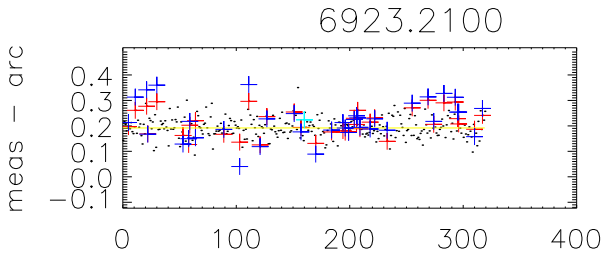

PLATE=2674 MJD=54097 Extraction chi^2 for sdR−r2−00042259.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

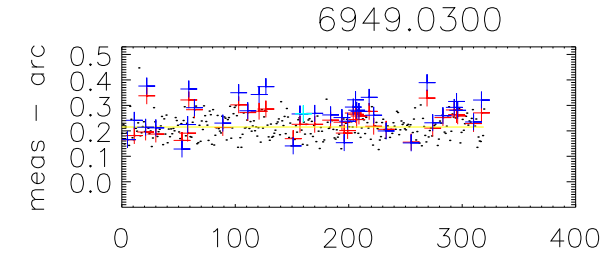

6300.3040
off: 0.24
sig: 0.002
6363.7760
off: 0.25
sig: 0.004
6553.6100
off: 0.22
sig: 0.017
6923.2100
off: 0.22
sig: 0.010
6949.0300
off: 0.27
sig: 0.010
7571.7500
off: 0.28
sig: 0.010
7794.1200
off: 0.14
sig: 0.004
7821.5100
off: 0.18
sig: 0.004
8399.1600
off: 0.20
sig: 0.003
8430.1700
off: 0.19
sig: 0.003
8885.8300
off: 0.20
sig: 0.003
8919.6100
off: 0.20
sig: 0.003

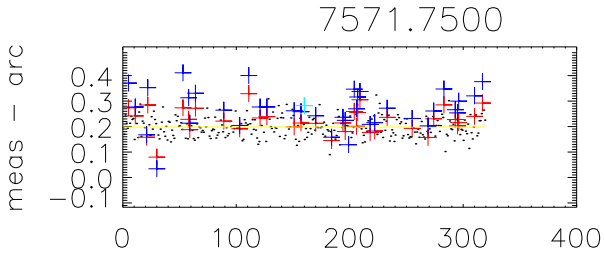

6300.3040
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

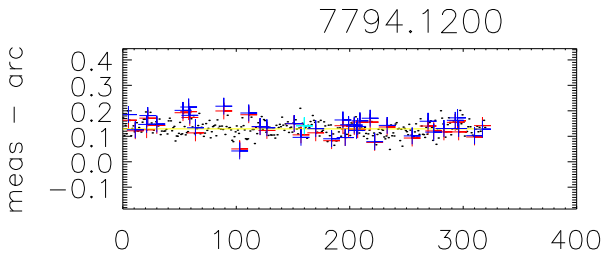

6363.7760
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

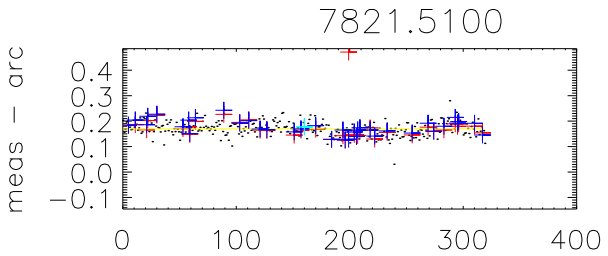

6553.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

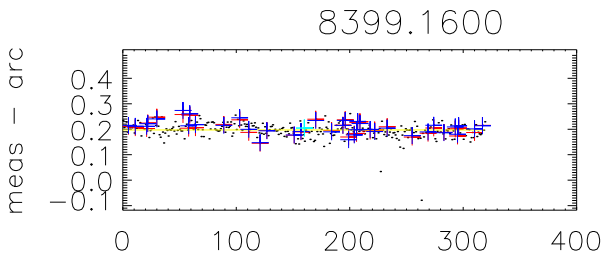

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

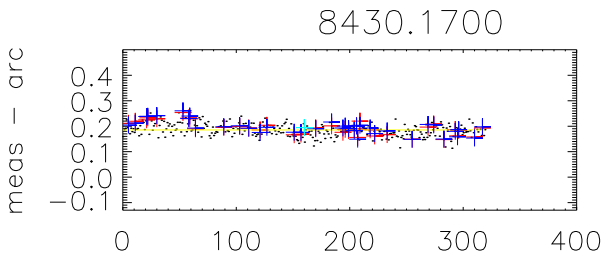

6949.0300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

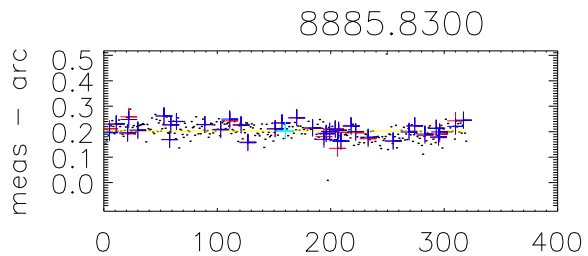

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

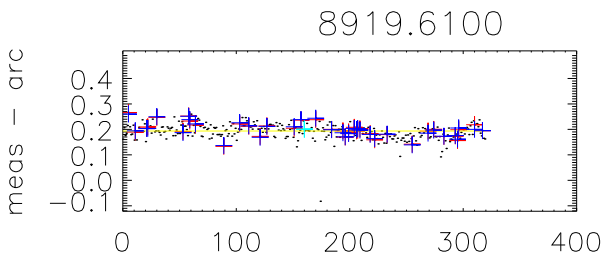

7794.1200
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

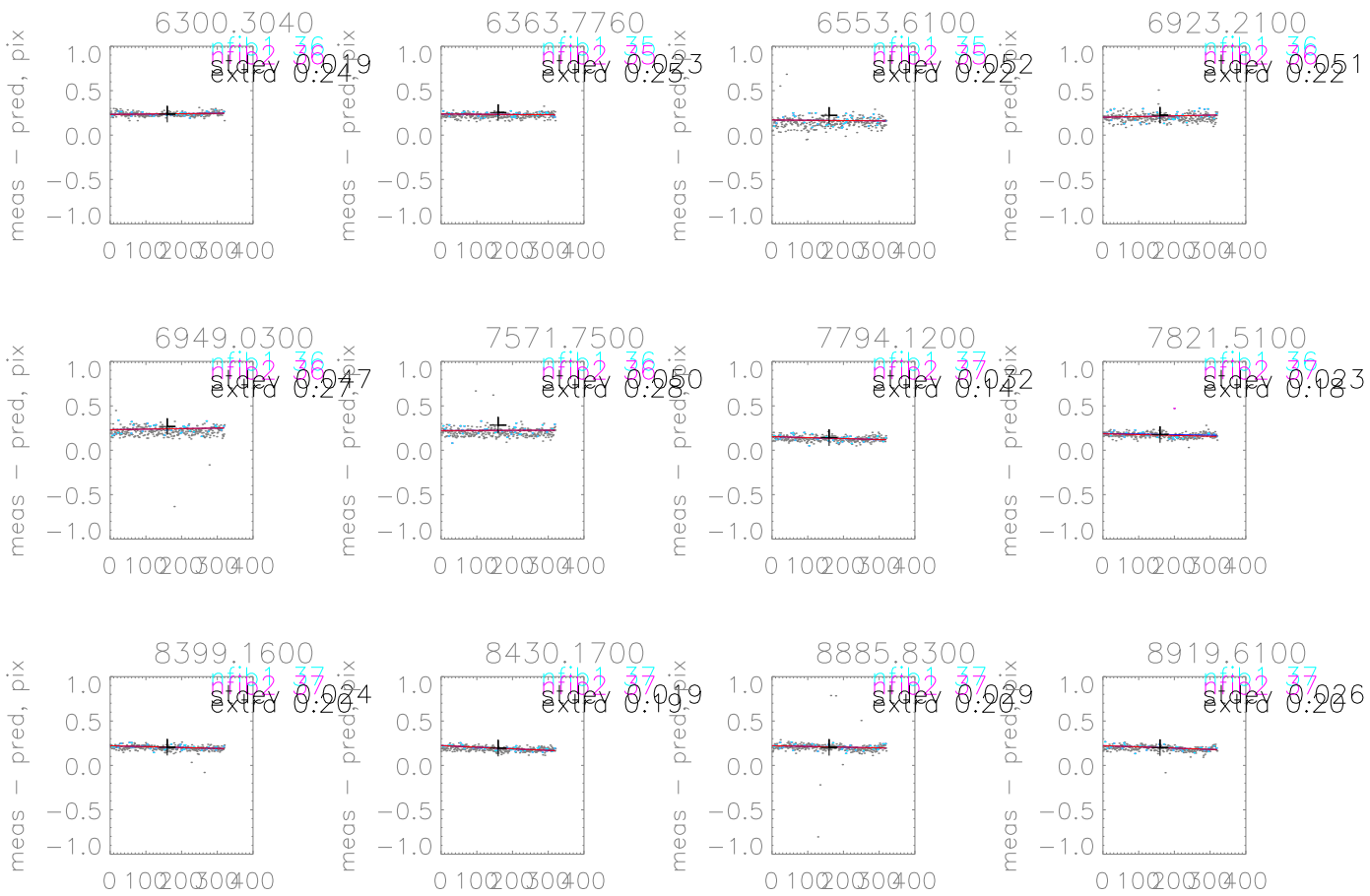

7821.5100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

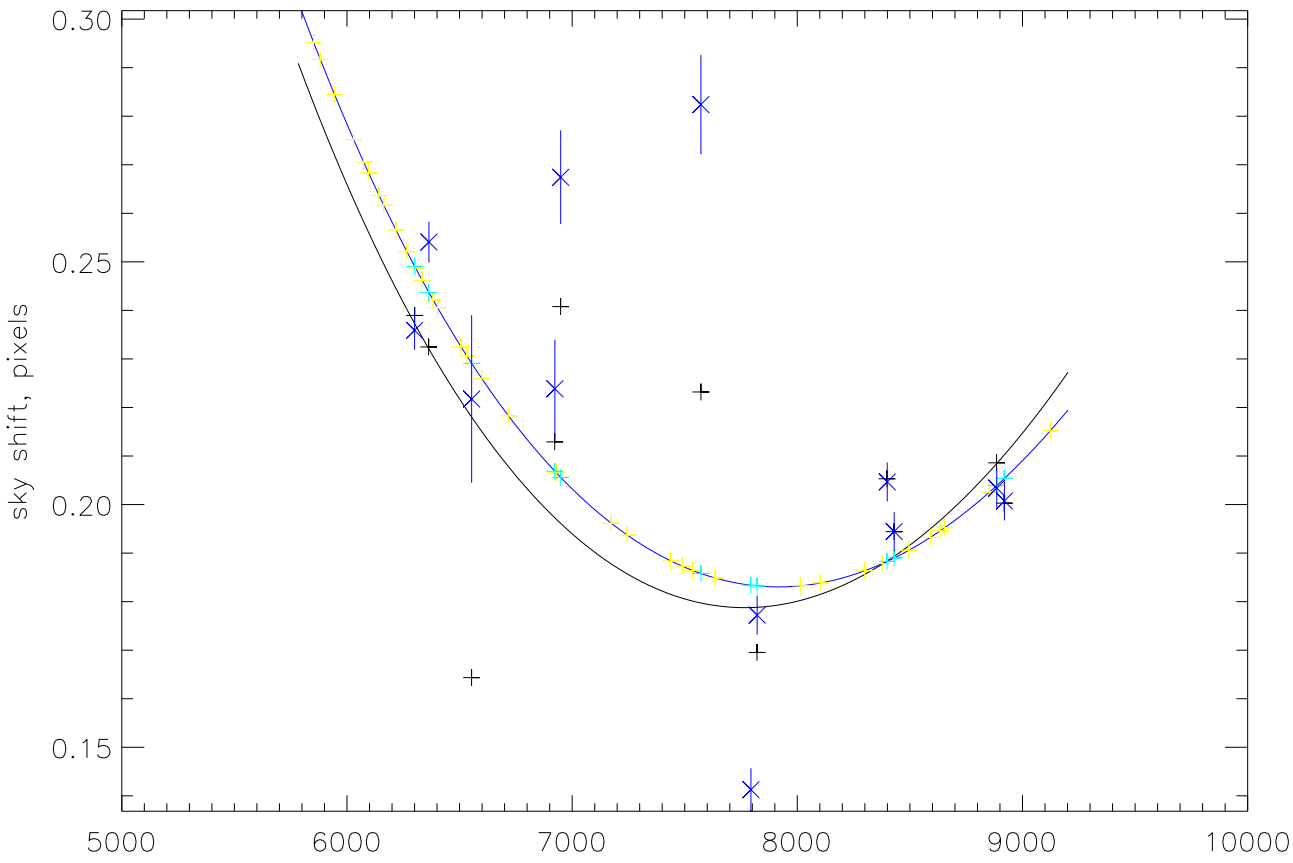

8399.1600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

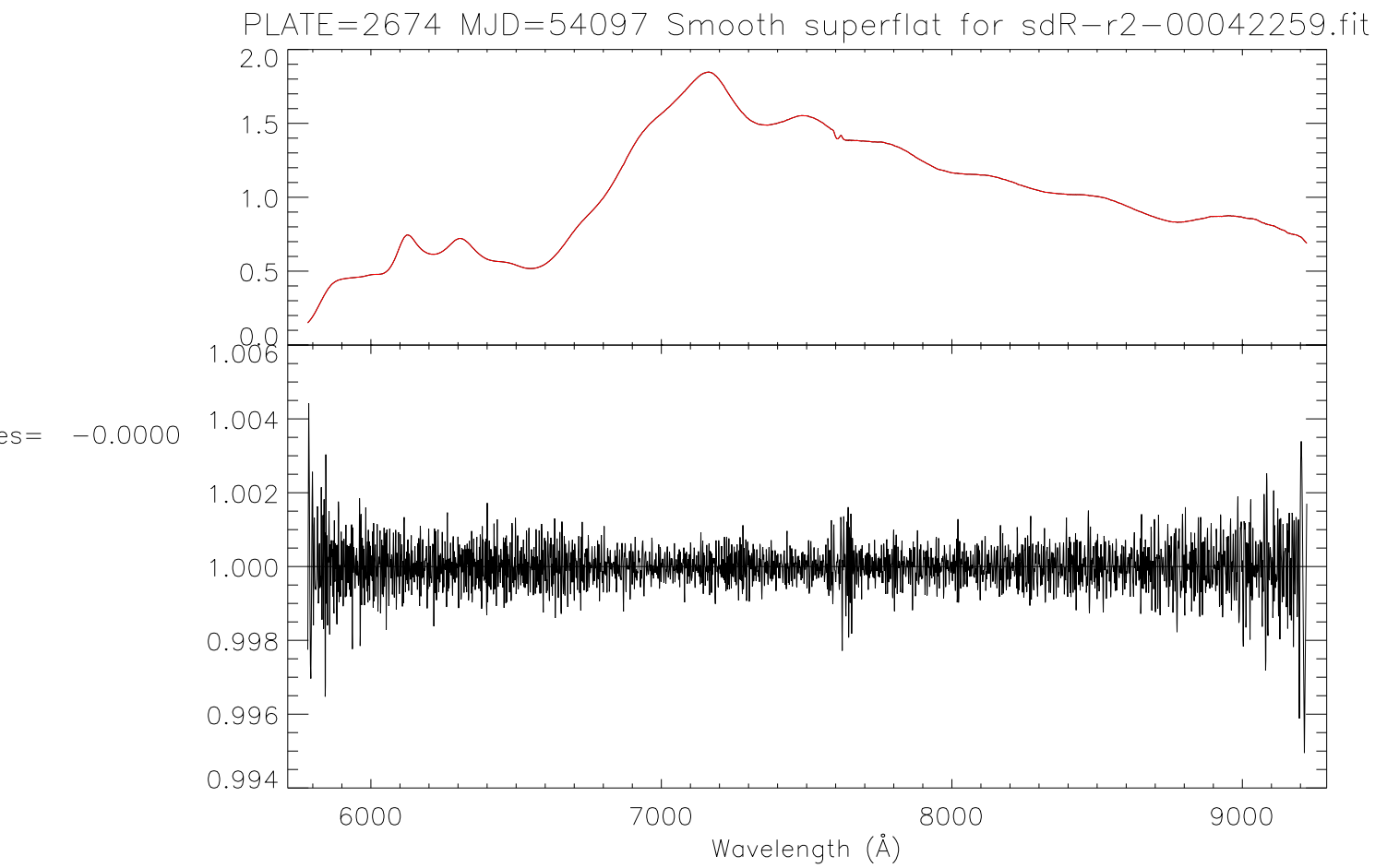

8430.1700
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

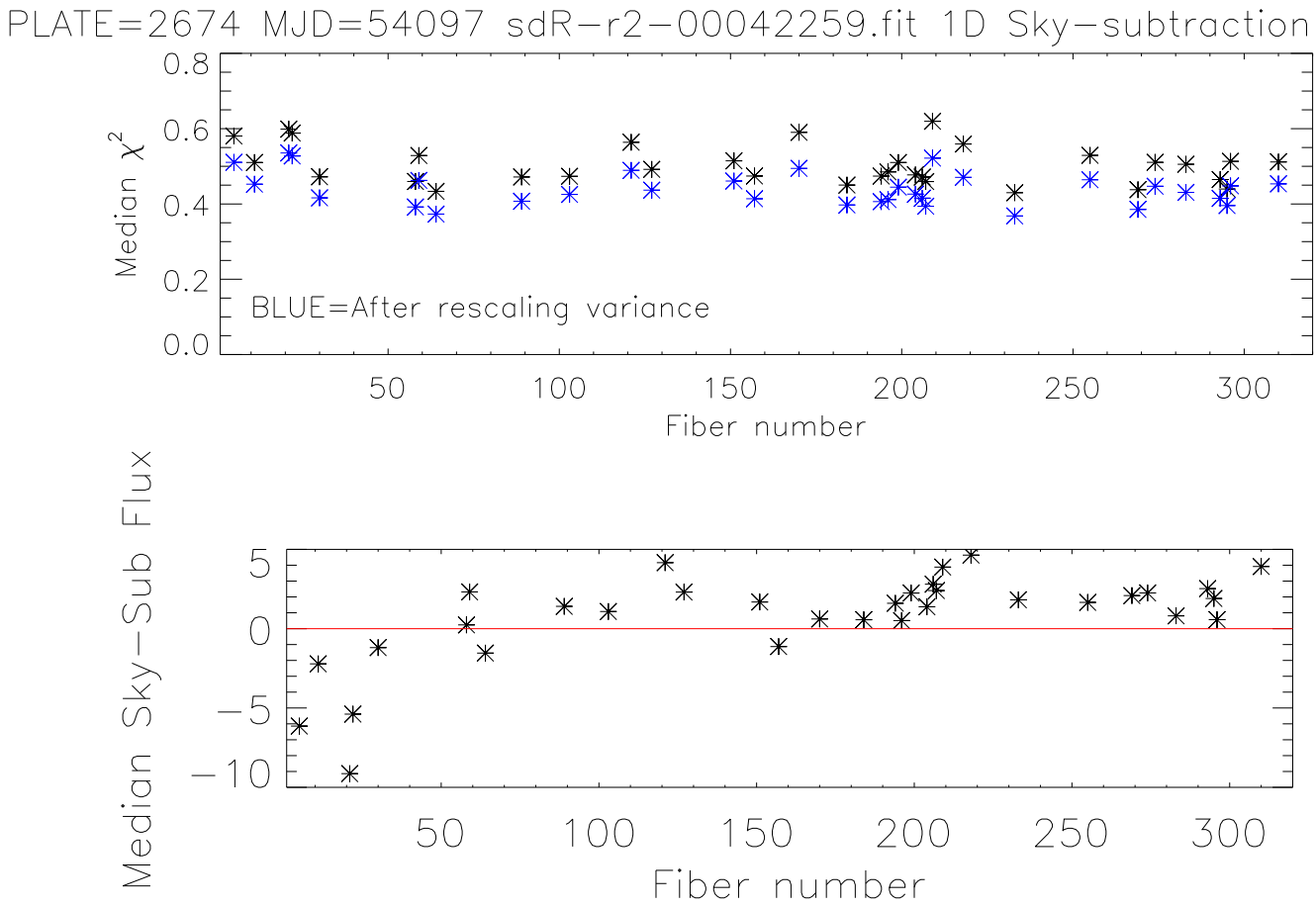

8885.8300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

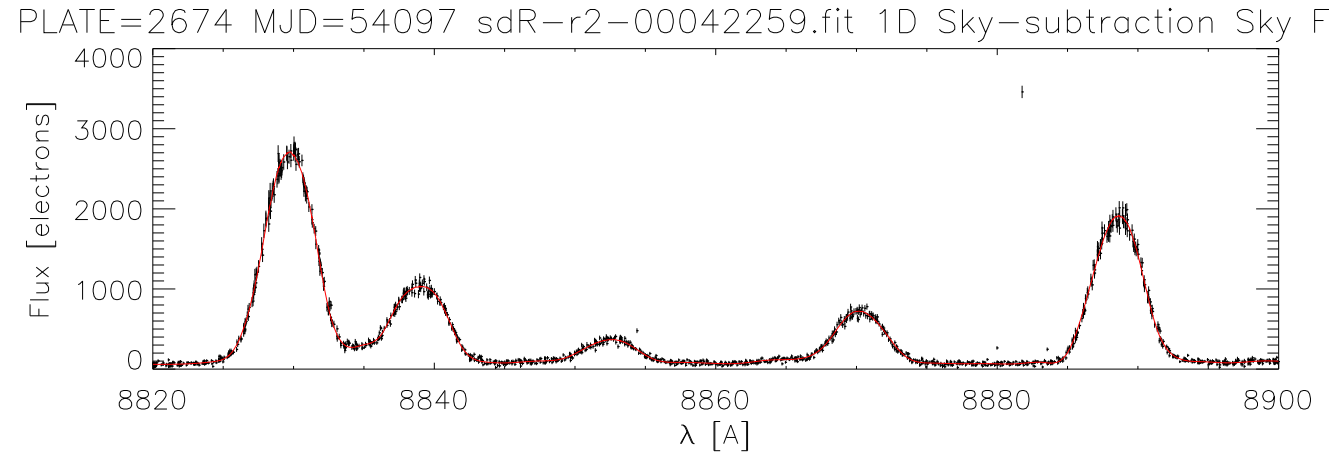

8919.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

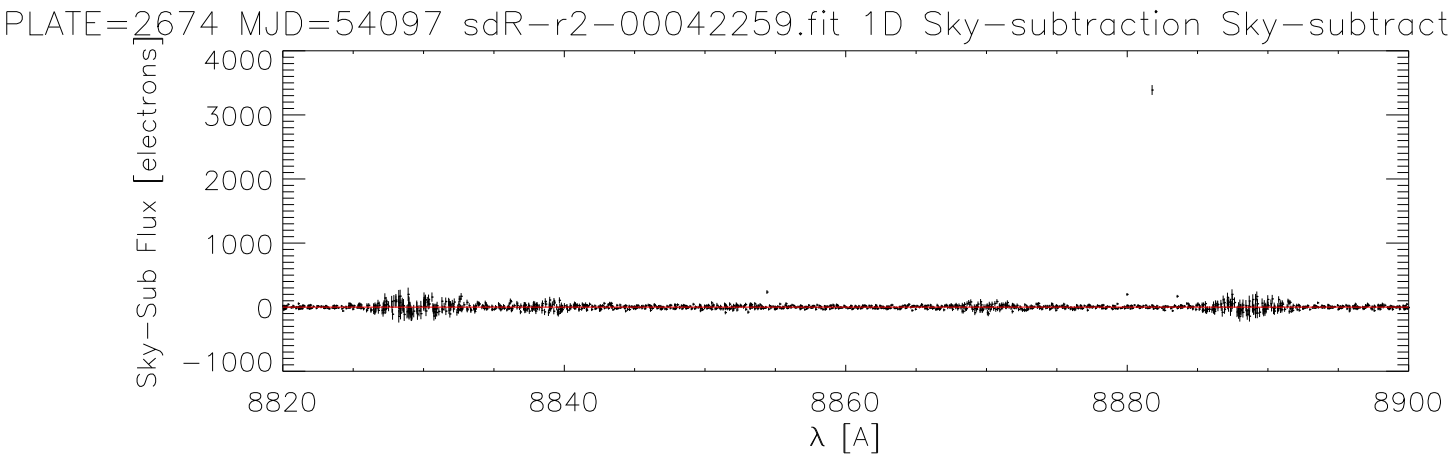

6300.3040
stdev 0.019
extra 0.24
6363.7760
stdev 0.023
extra 0.25
6553.6100
stdev 0.052
extra 0.22
6923.2100
stdev 0.051
extra 0.22
6949.0300
stdev 0.047
extra 0.27
7571.7500
stdev 0.050
extra 0.28
7794.1200
stdev 0.032
extra 0.14
7821.5100
stdev 0.023
extra 0.18
8399.1600
stdev 0.024
extra 0.20
8430.1700
stdev 0.049
extra 0.19
8885.8300
stdev 0.029
extra 0.20
8919.6100
stdev 0.026
extra 0.20
meas − pred, pix

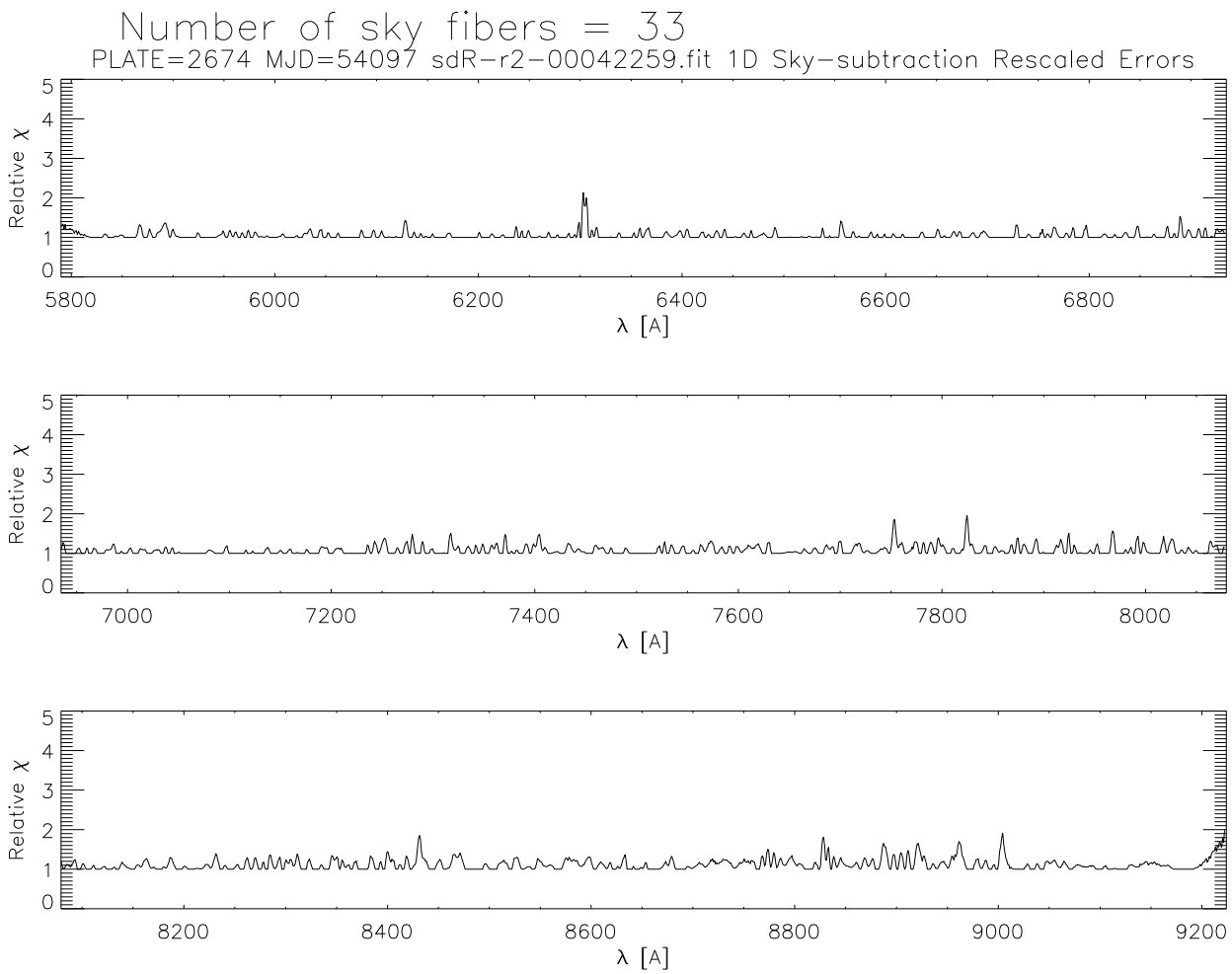

0.30
0.25
0.20
0.15
sky shift, pixels
5000
6000
7000
8000
9000
10000

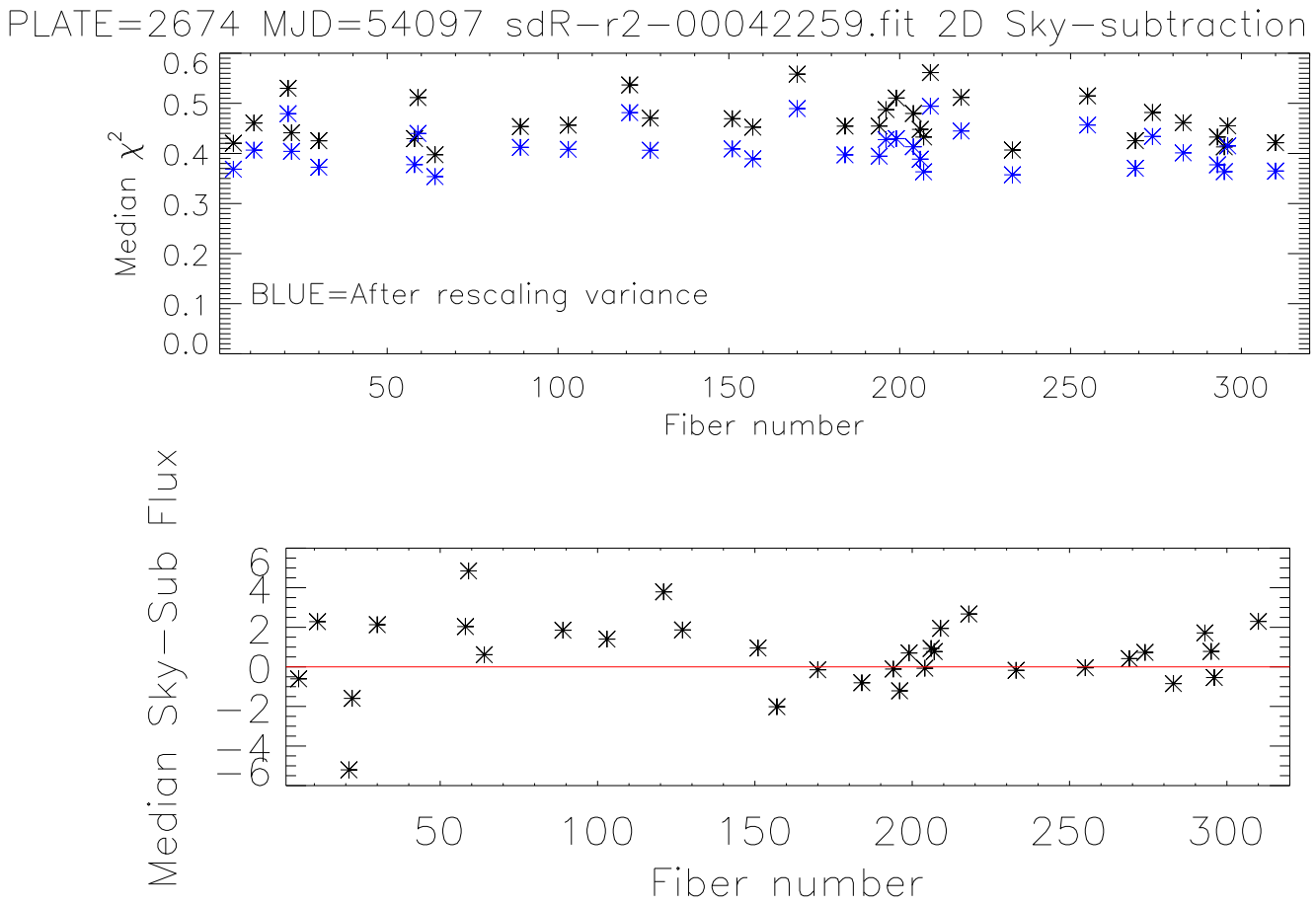

PLATE=2674 MJD=54097 Smooth superflat for sdR-r2-00042259.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

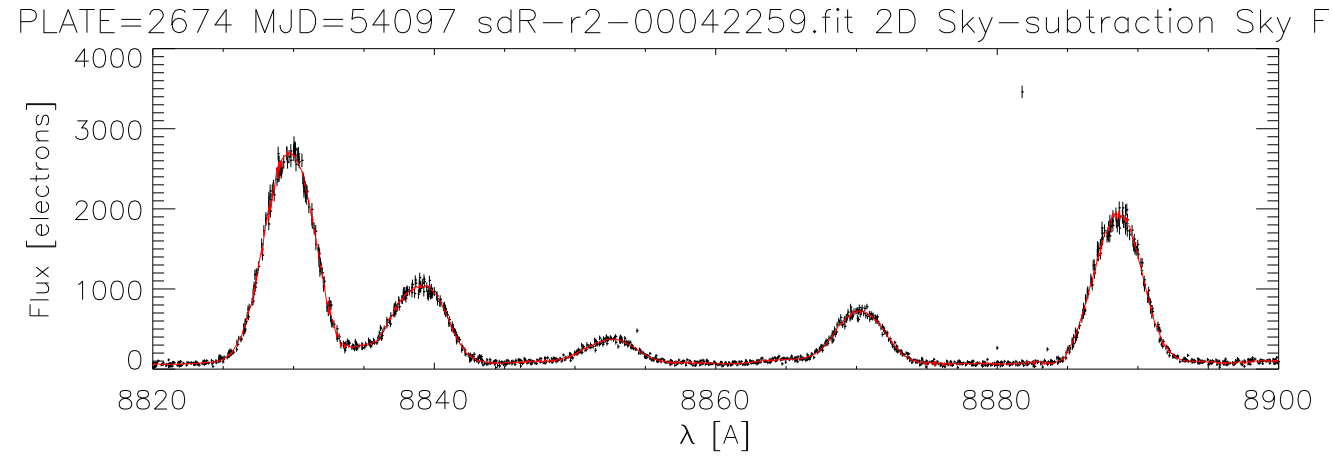

PLATE=2674 MJD=54097 sdR-r2-00042259.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
5
0
−5
−10
50
100
150
200
250
300
Fiber number

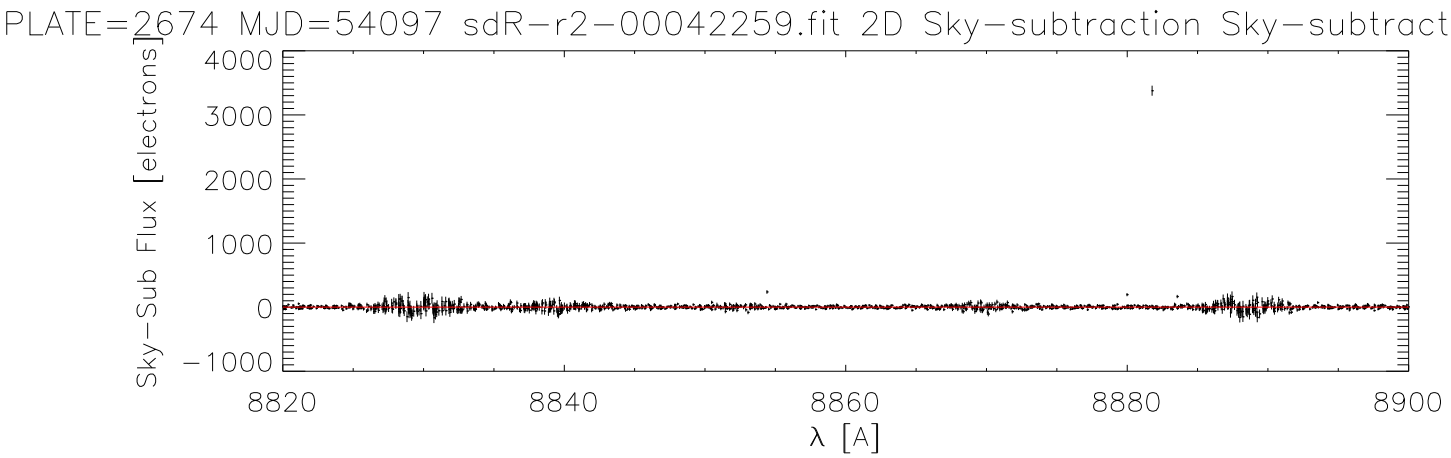

PLATE=2674 MJD=54097 sdR-r2-00042259.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

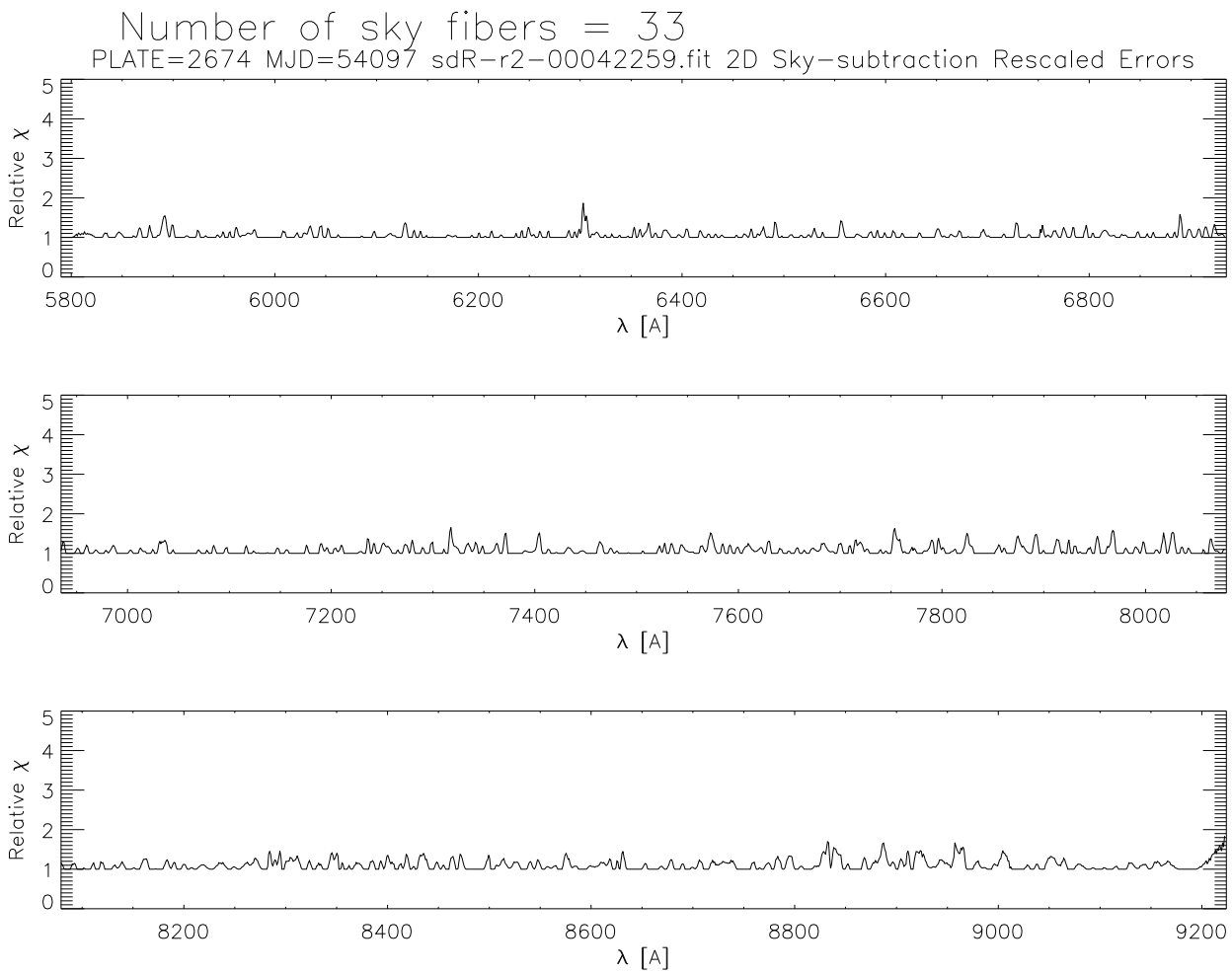

PLATE=2674 MJD=54097 sdR-r2-00042259.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

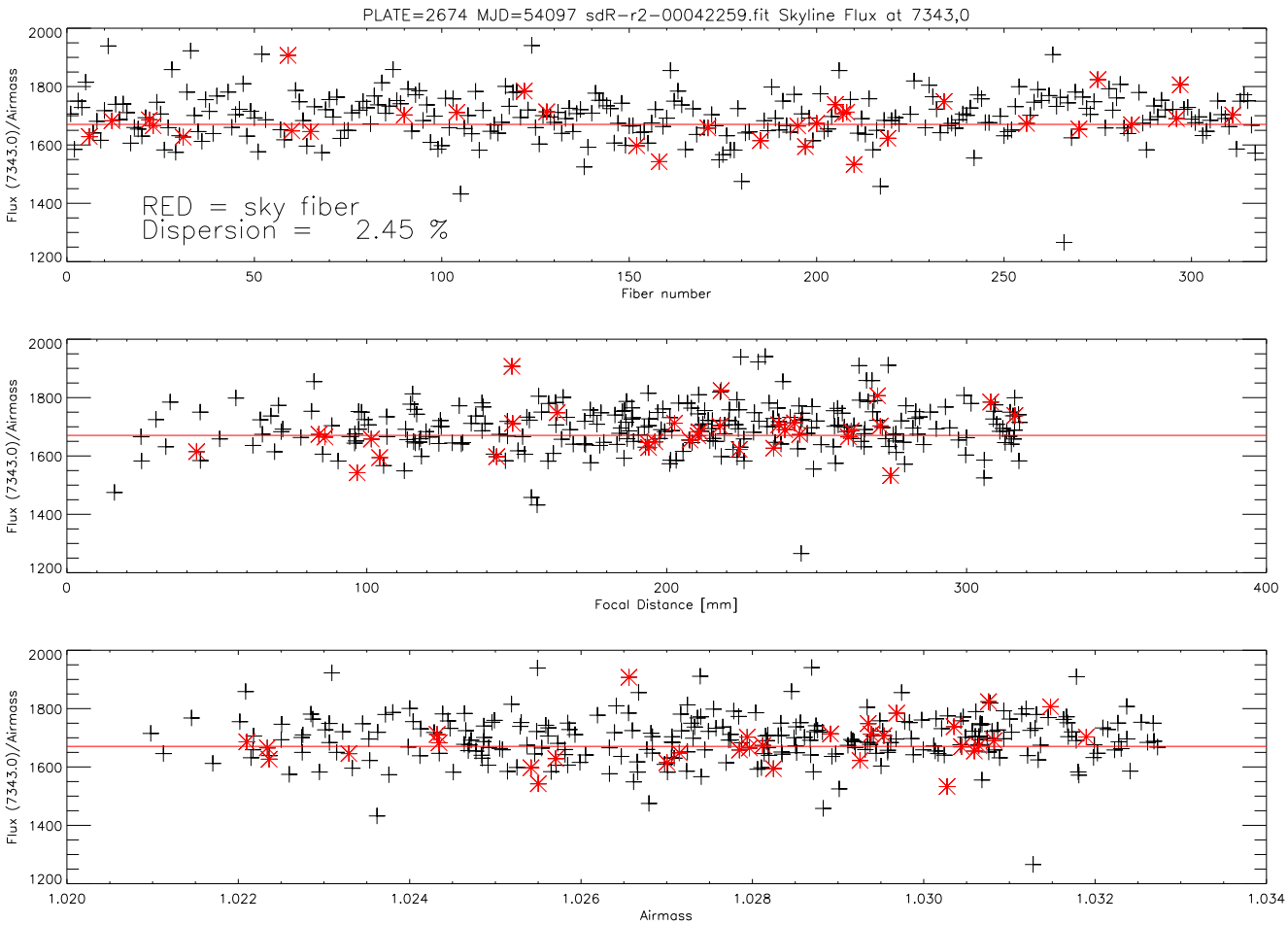

Number of sky fibers = 33
PLATE=2674 MJD=54097 sdR-r2-00042259.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

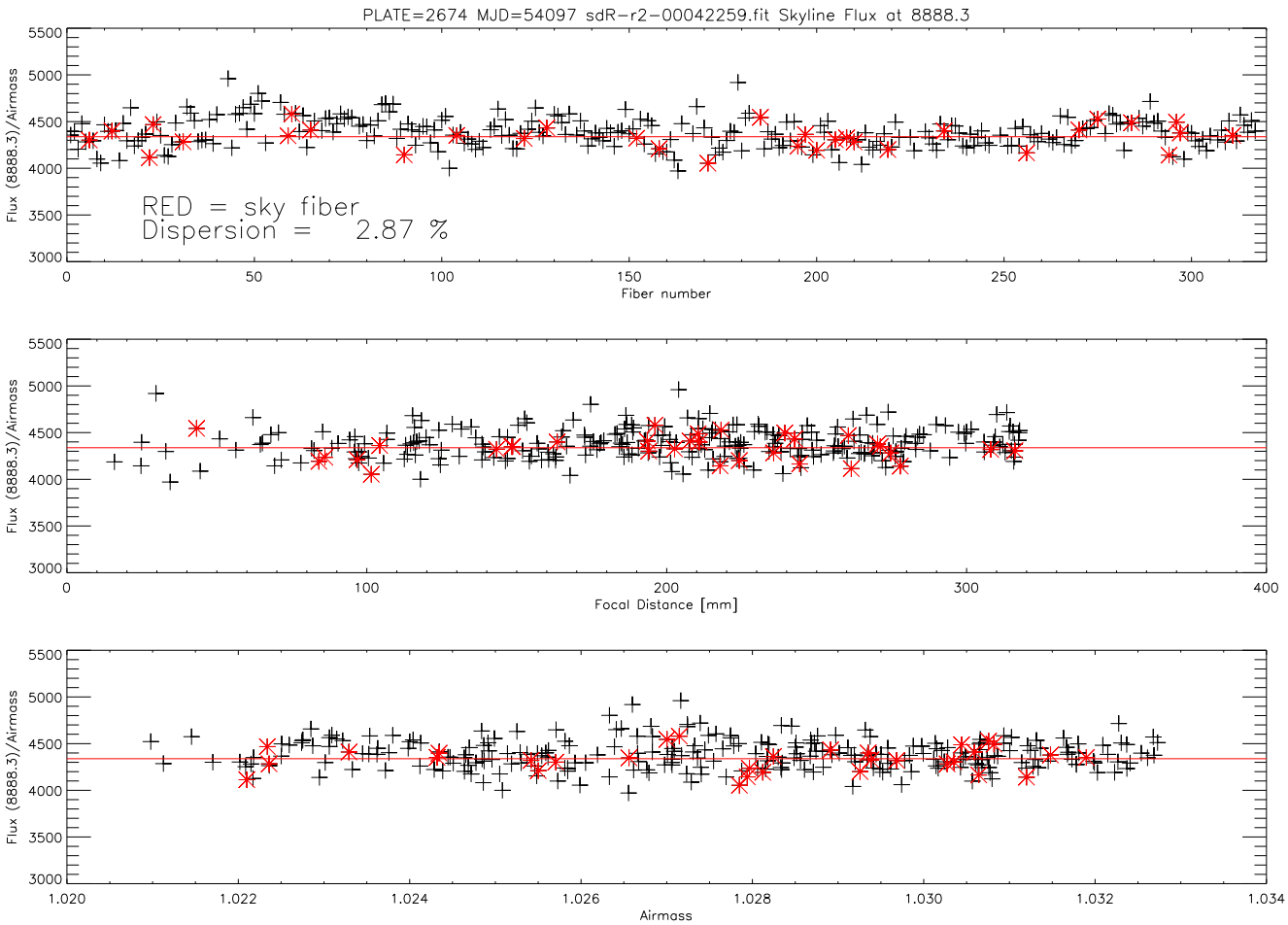

PLATE=2674 MJD=54097 sdR-r2-00042259.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

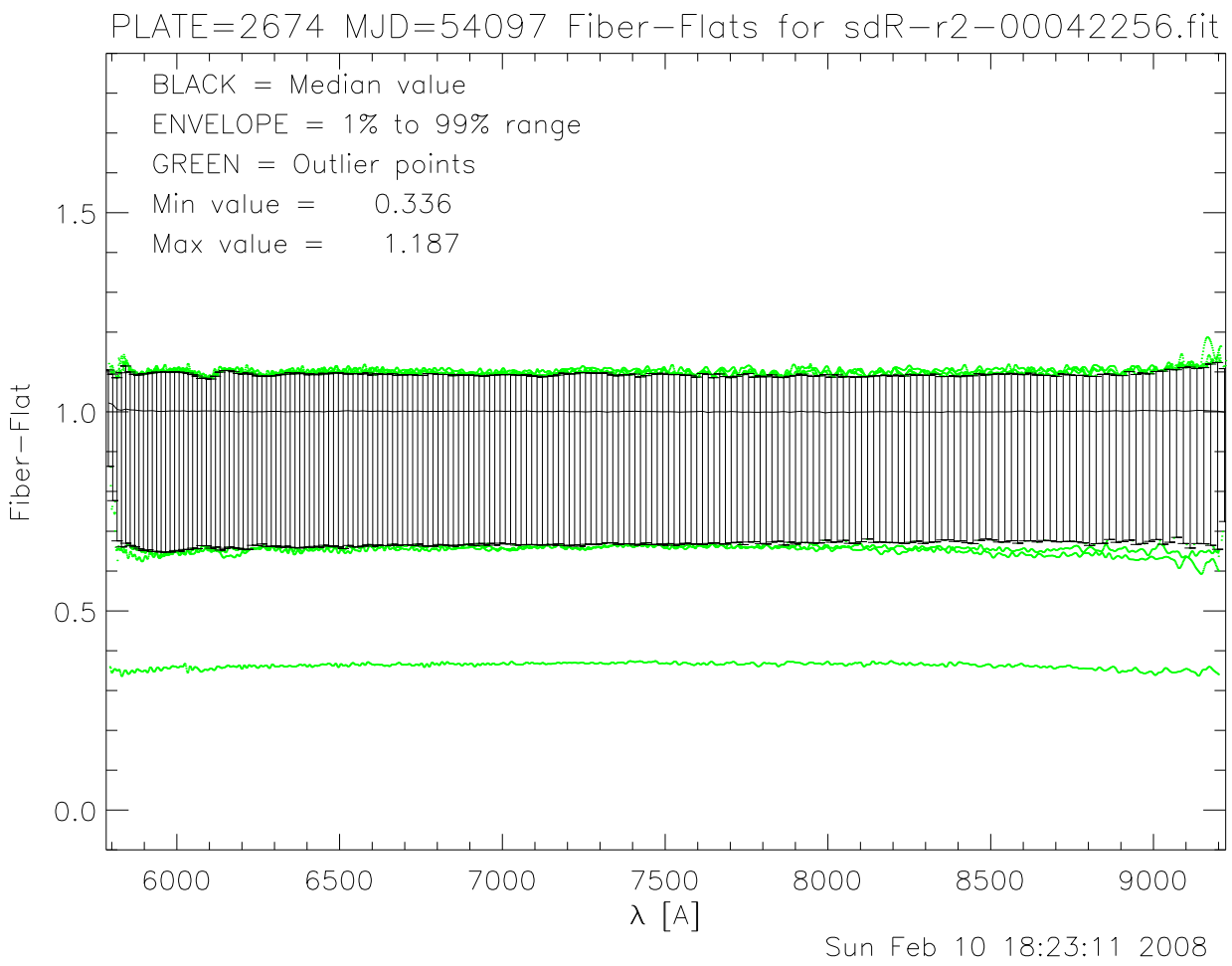

PLATE=2674 MJD=54097 sdR-r2-00042259.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

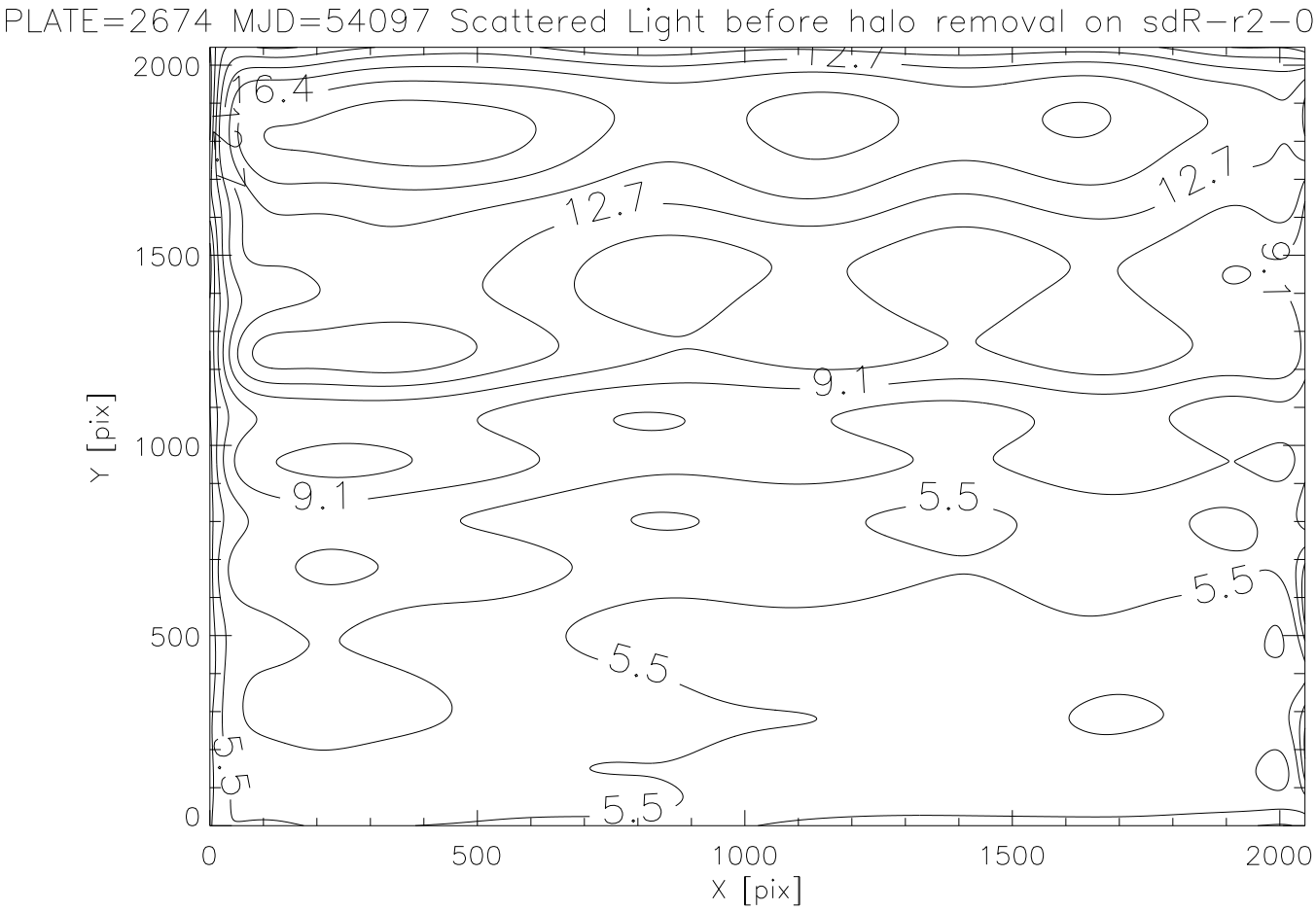

PLATE=2674 MJD=54097 sdR-r2-00042259.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

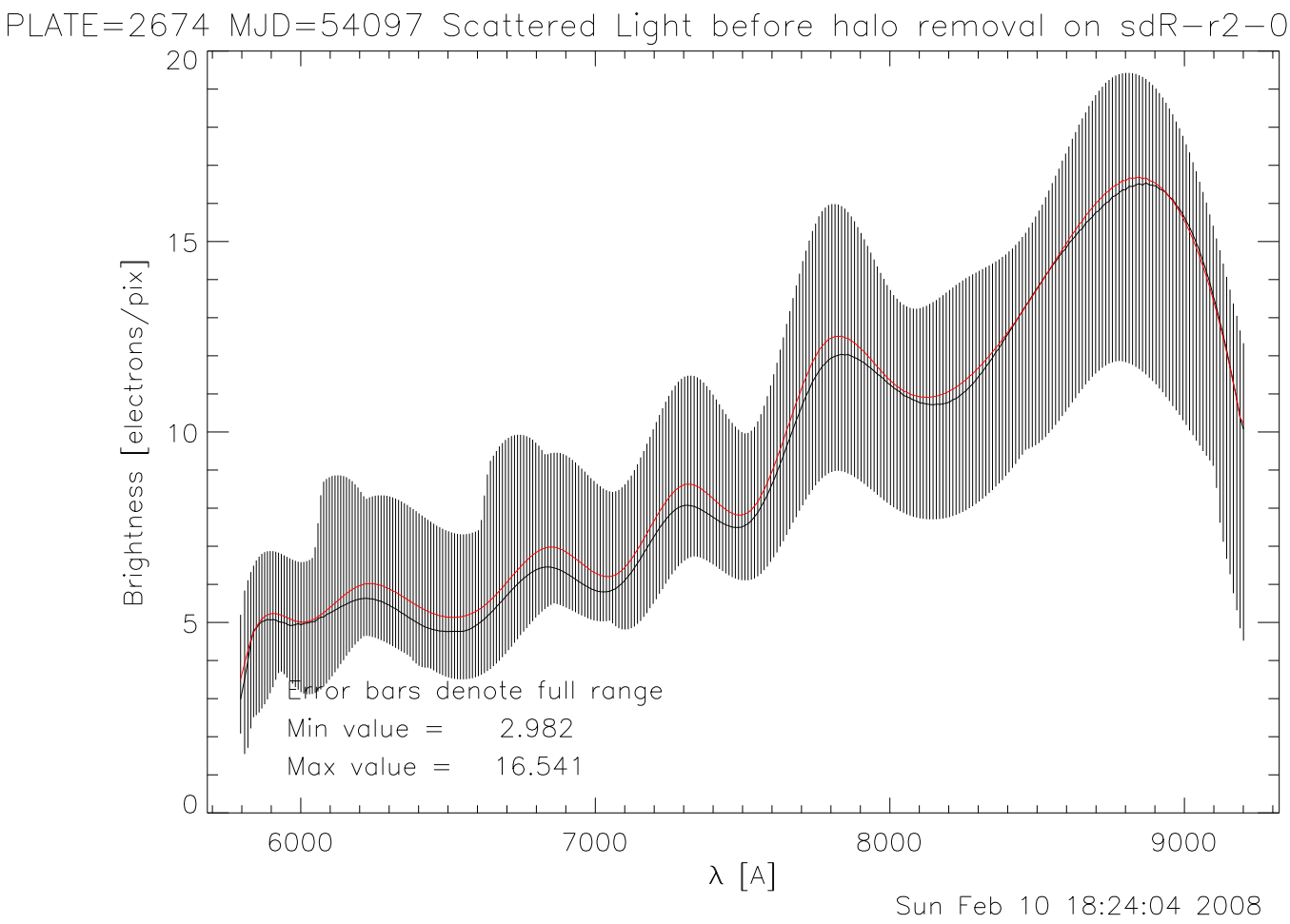

Number of sky fibers = 33
PLATE=2674 MJD=54097 sdR-r2-00042259.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

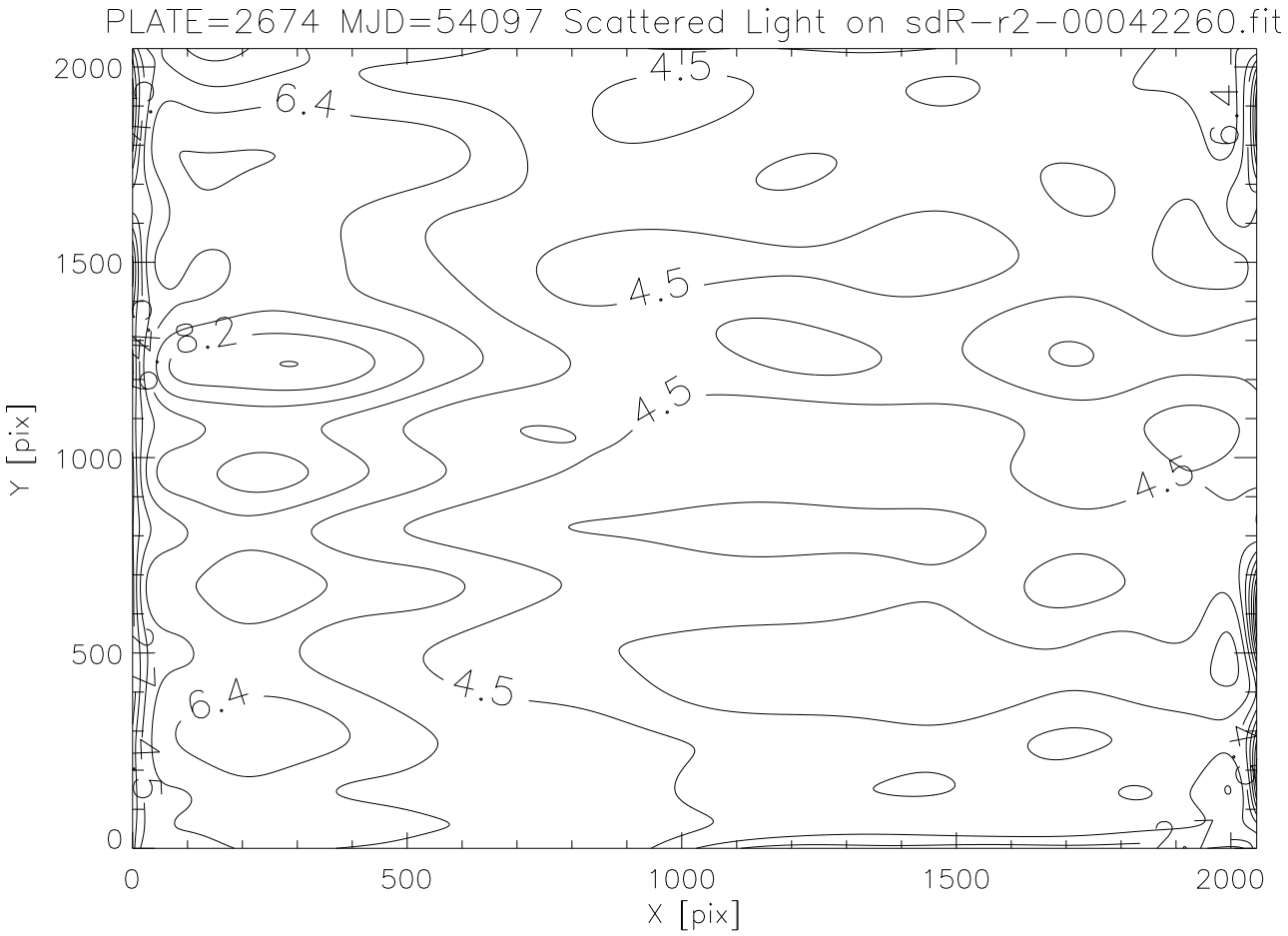

PLATE=2674 MJD=54097 sdR-r2-00042259.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.45 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

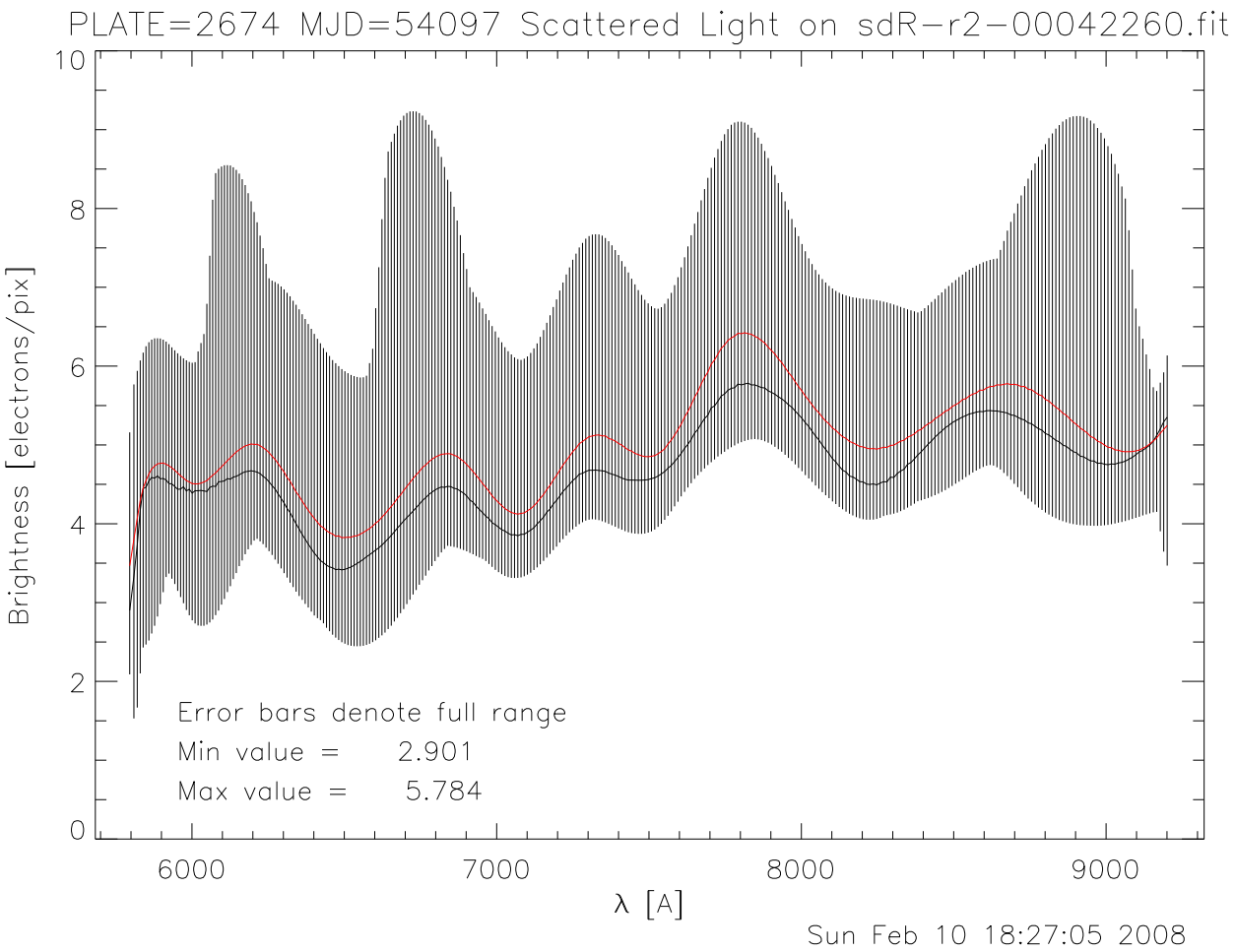

PLATE=2674 MJD=54097 sdR-r2-00042259.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.87 %
Fiber number
Focal Distance [mm]
Airmass

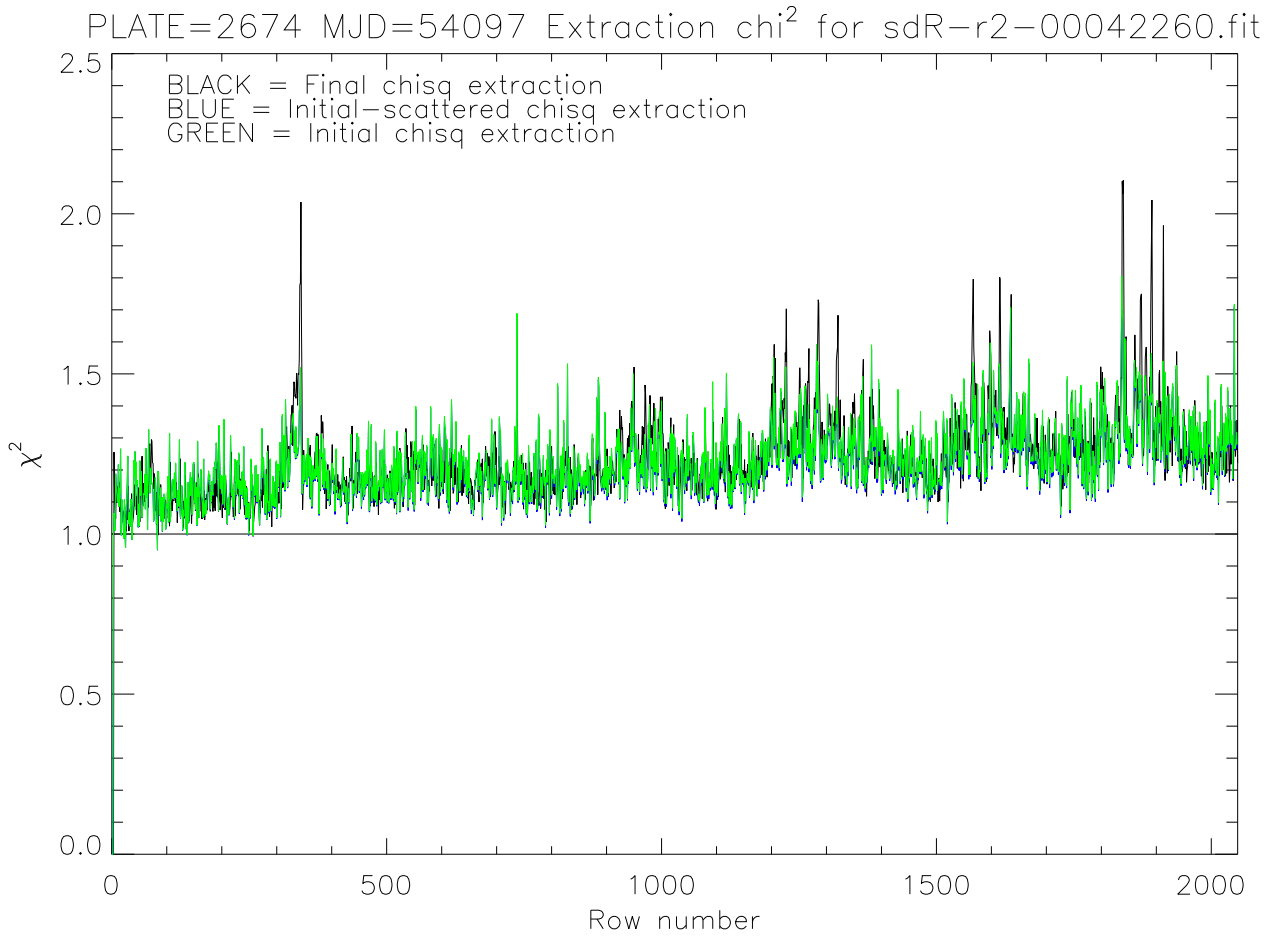

PLATE=2674 MJD=54097 Fiber−Flats for sdR−r2−00042256.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.336
Max value = 1.187
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sun Feb 10 18:23:11 2008

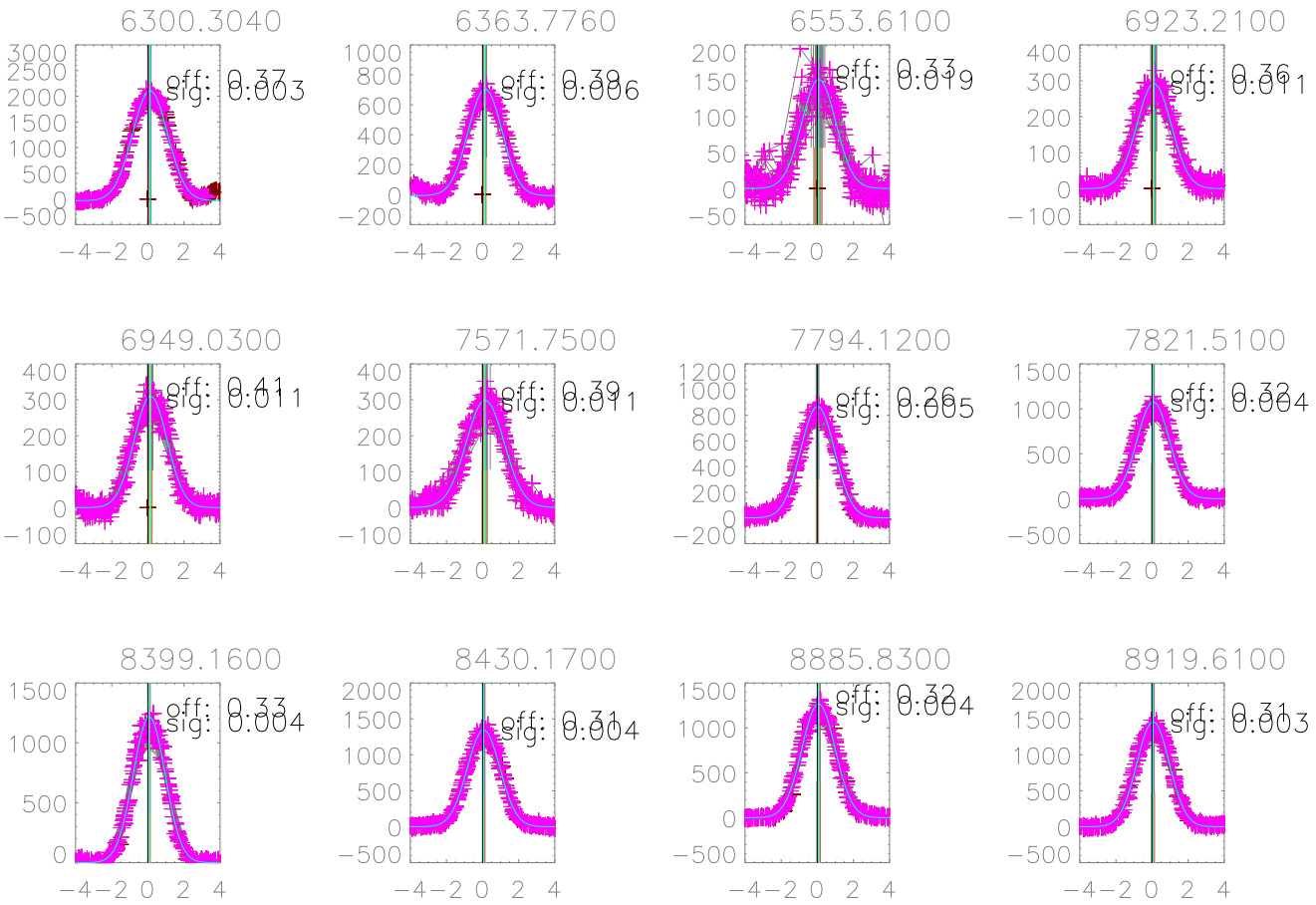

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR-r2-00042260.fi
Y [pix]
X [pix]
0
500
1000
1500
2000
16.4
12.7
12.1
9.1
5.5
0

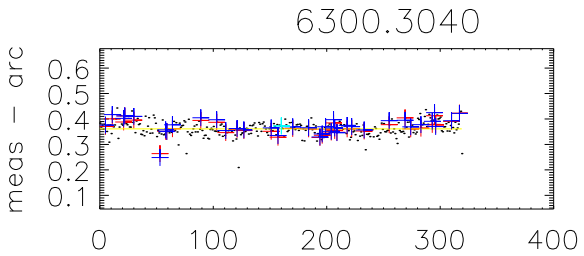

PLATE=2674 MJD=54097 Scattered Light before halo removal on sdR-r2-00042260.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 2.982
Max value = 16.541
Sun Feb 10 18:24:04 2008

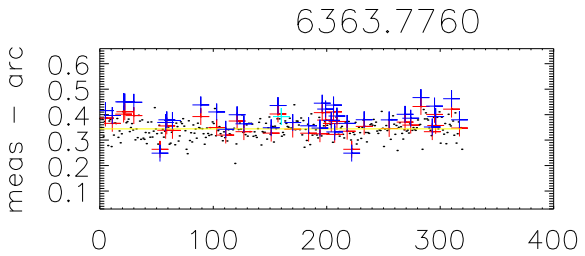

PLATE=2674 MJD=54097 Scattered Light on sdR-r2-00042260.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
4.5
6.4
8.2

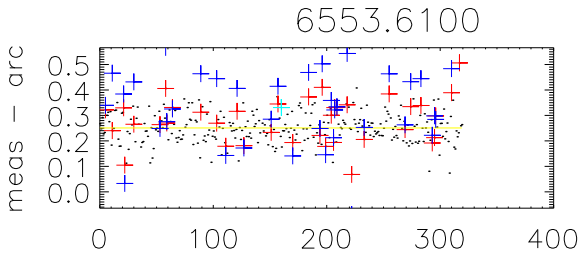

PLATE=2674 MJD=54097 Scattered Light on sdR-r2-00042260.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 2.901
Max value = 5.784
Sun Feb 10 18:27:05 2008

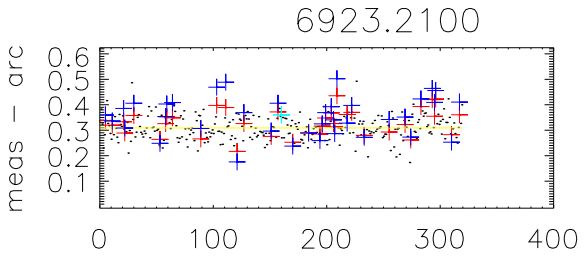

PLATE=2674 MJD=54097 Extraction chi^2 for sdR−r2−00042260.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

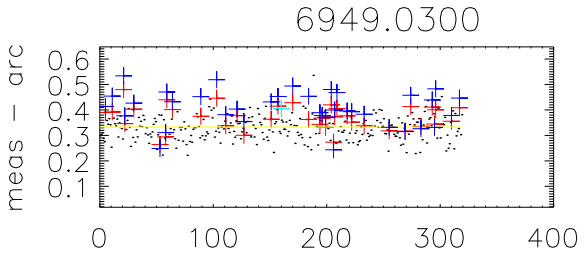

6300.3040
off: 0.37
sig: 0.003
6363.7760
off: 0.39
sig: 0.006
6553.6100
off: 0.33
sig: 0.019
6923.2100
off: 0.36
sig: 0.011
6949.0300
off: 0.41
sig: 0.011
7571.7500
off: 0.39
sig: 0.011
7794.1200
off: 0.26
sig: 0.005
7821.5100
off: 0.32
sig: 0.004
8399.1600
off: 0.33
sig: 0.004
8430.1700
off: 0.31
sig: 0.004
8885.8300
off: 0.32
sig: 0.004
8919.6100
off: 0.31
sig: 0.003

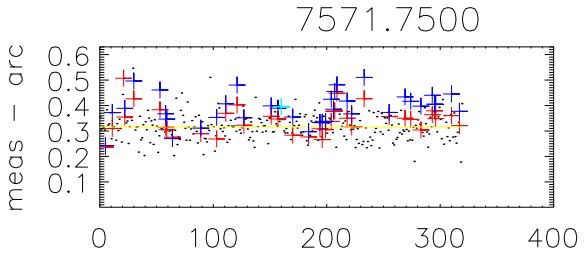

6300.3040
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

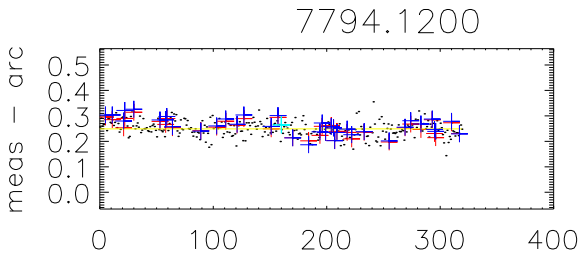

6363.7760
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

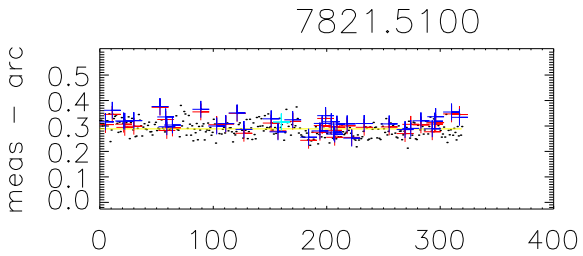

6553.6100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

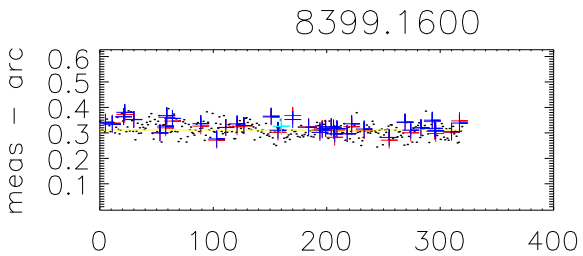

6923.2100
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

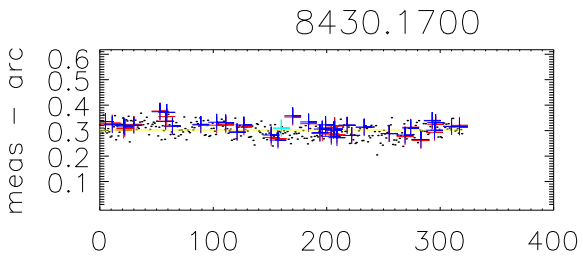

6949.0300
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

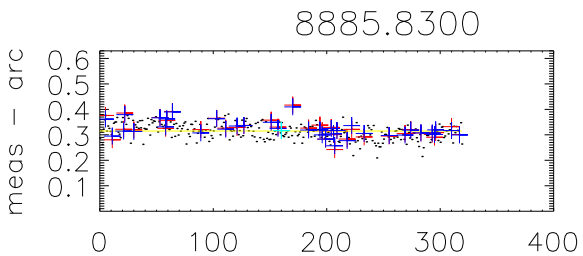

7571.7500
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

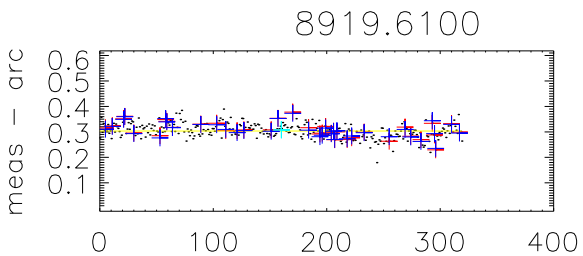

7794.1200
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

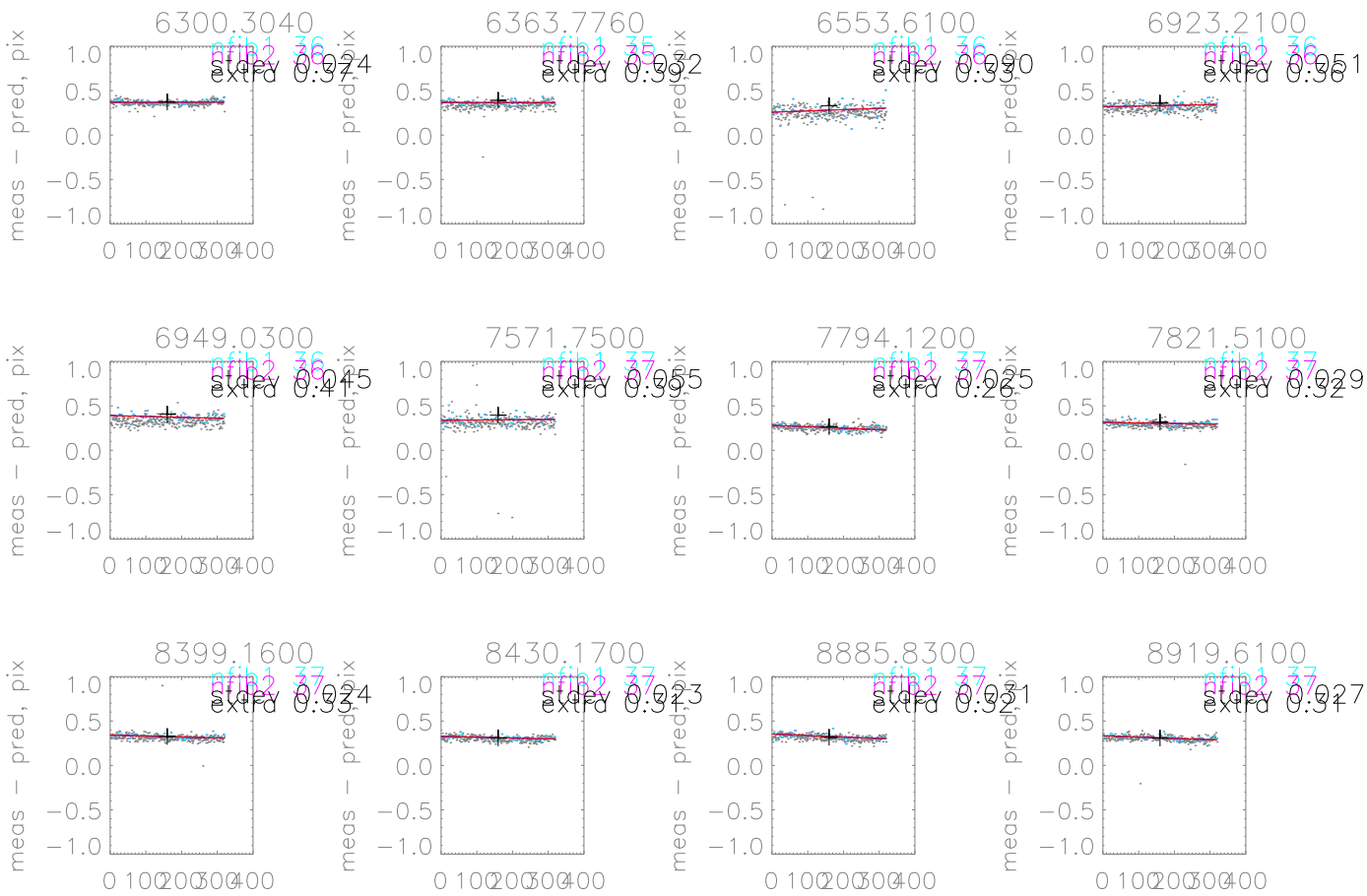

7821.5100
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

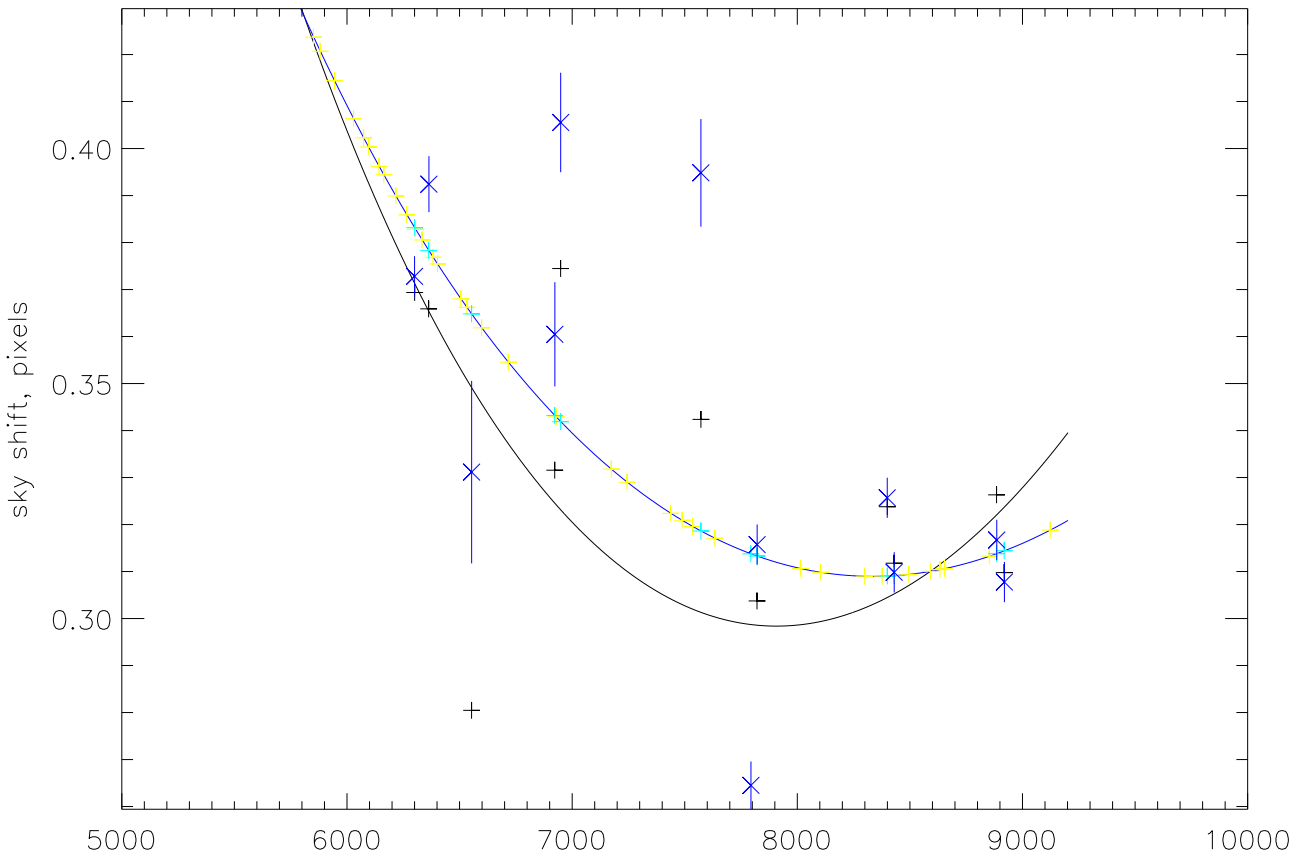

8399.1600
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

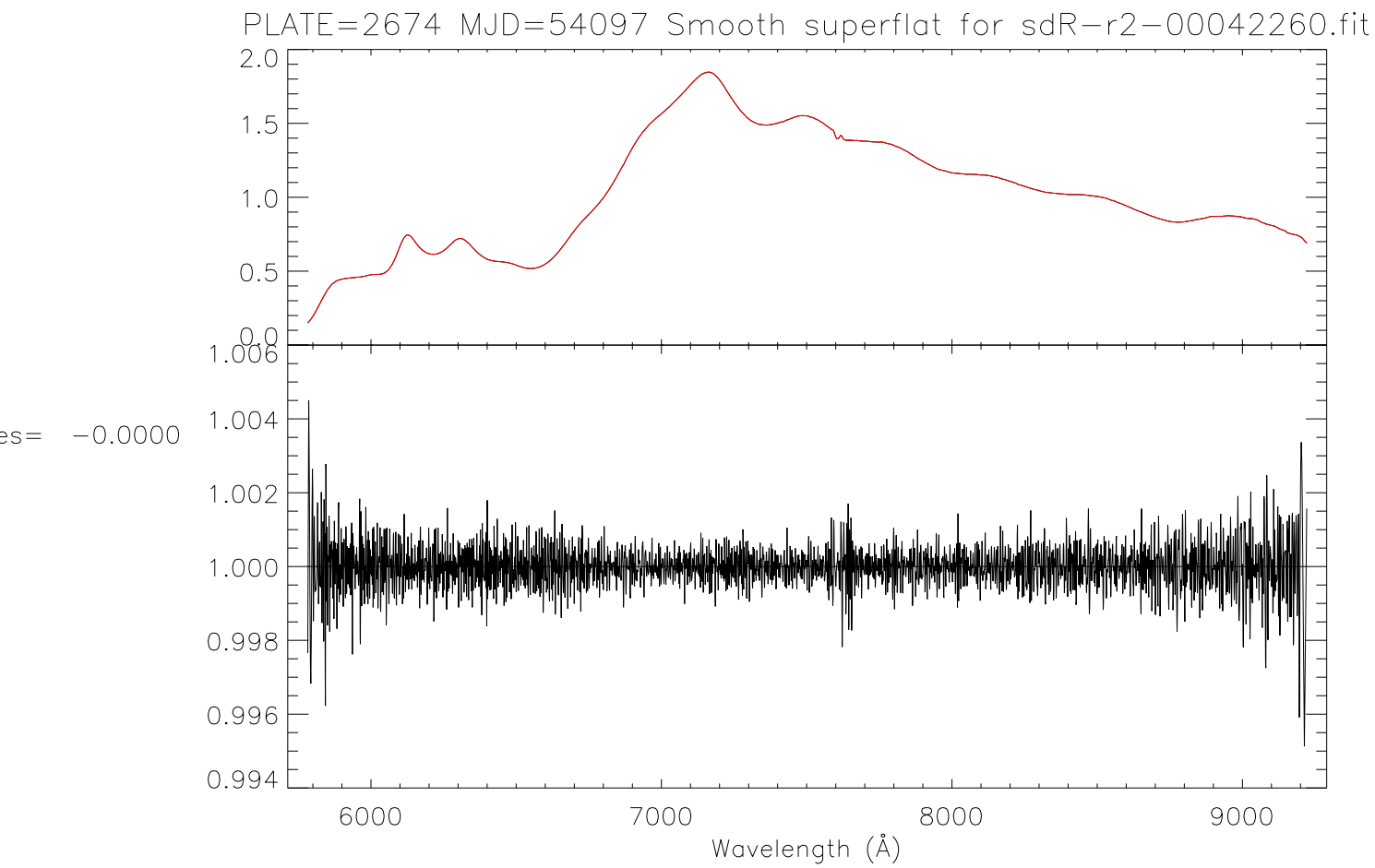

8430.1700
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

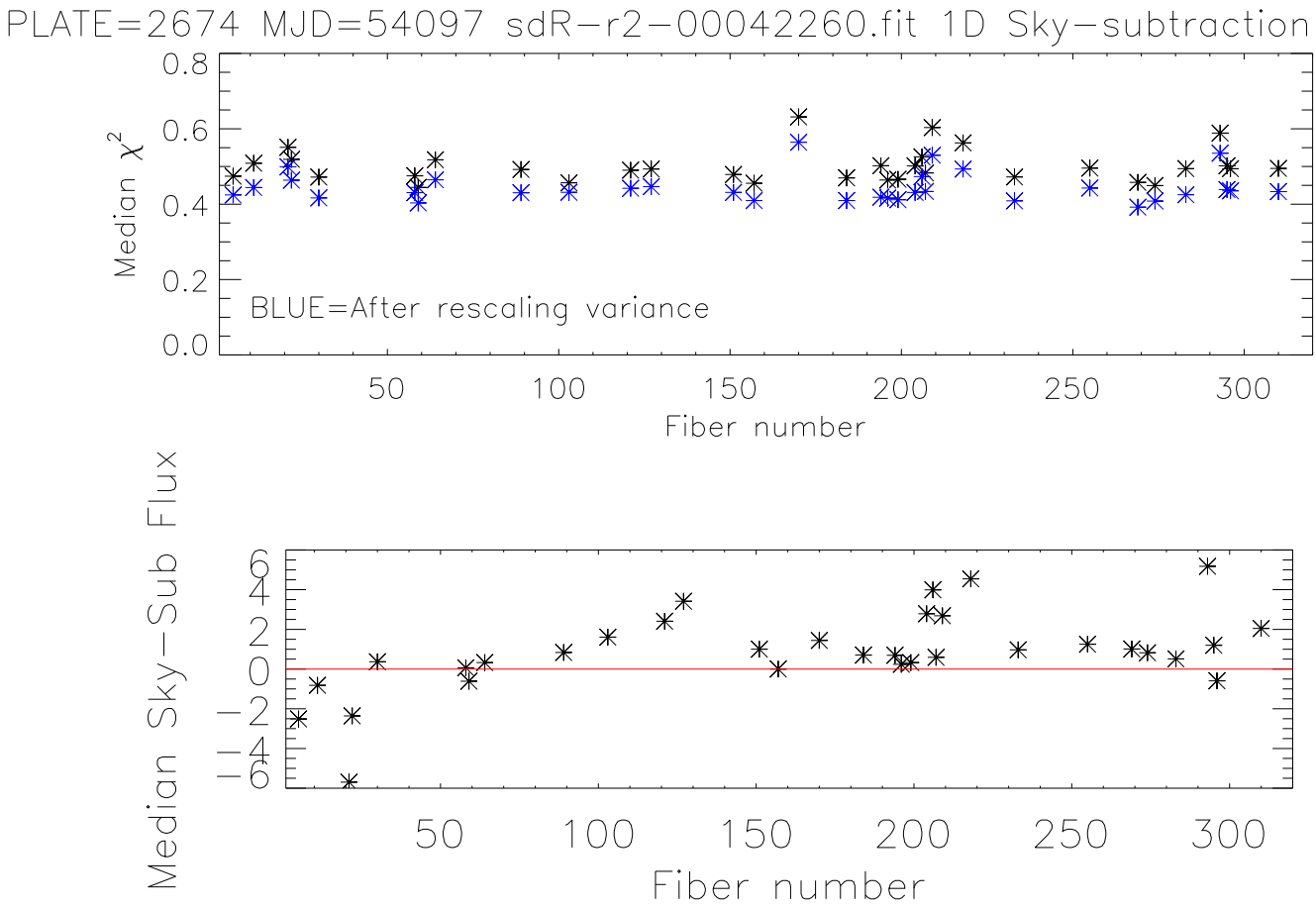

8885.8300
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400


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

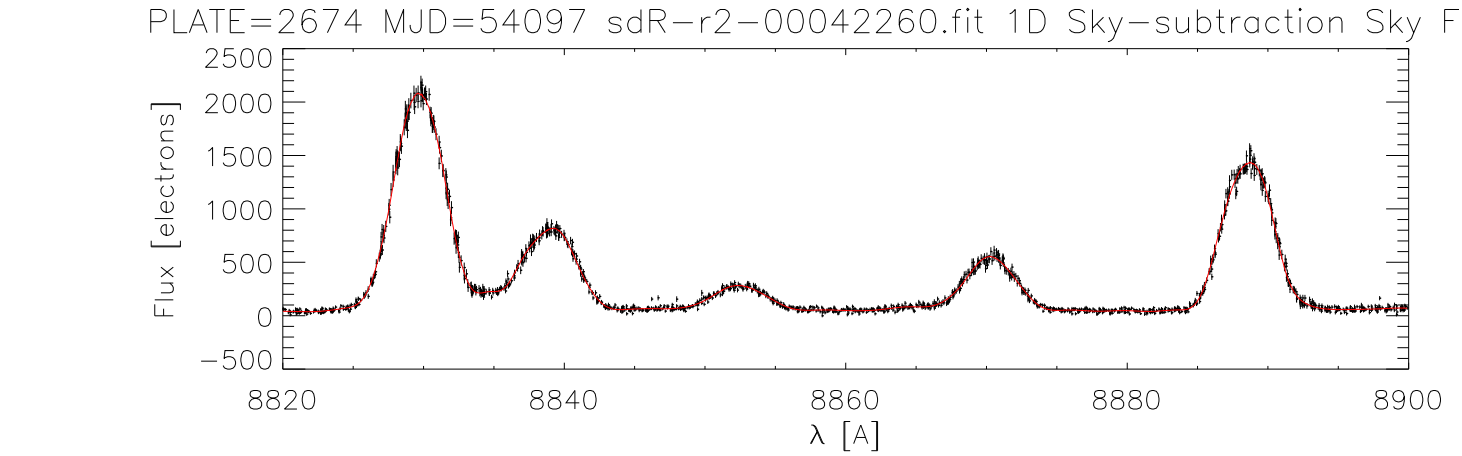

6300.3040
mfib1 36
mfib2 36
stdev 0.024
extra 0.37
6363.7760
mfib1 35
mfib2 36
stdev 0.032
extra 0.39
6553.6100
mfib1 36
mfib2 36
stdev 0.030
extra 0.33
6923.2100
mfib1 36
mfib2 36
stdev 0.051
extra 0.36
6949.0300
mfib1 36
mfib2 36
stdev 0.045
extra 0.41
7571.7500
mfib1 37
mfib2 37
stdev 0.055
extra 0.39
7794.1200
mfib1 37
mfib2 37
stdev 0.025
extra 0.26
7821.5100
mfib1 37
mfib2 37
stdev 0.029
extra 0.32
8399.1600
mfib1 37
mfib2 37
stdev 0.024
extra 0.33
8430.1700
mfib1 37
mfib2 37
stdev 0.023
extra 0.31
8885.8300
mfib1 37
mfib2 37
stdev 0.031
extra 0.32
8919.6100
mfib1 37
mfib2 37
stdev 0.027
extra 0.31
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

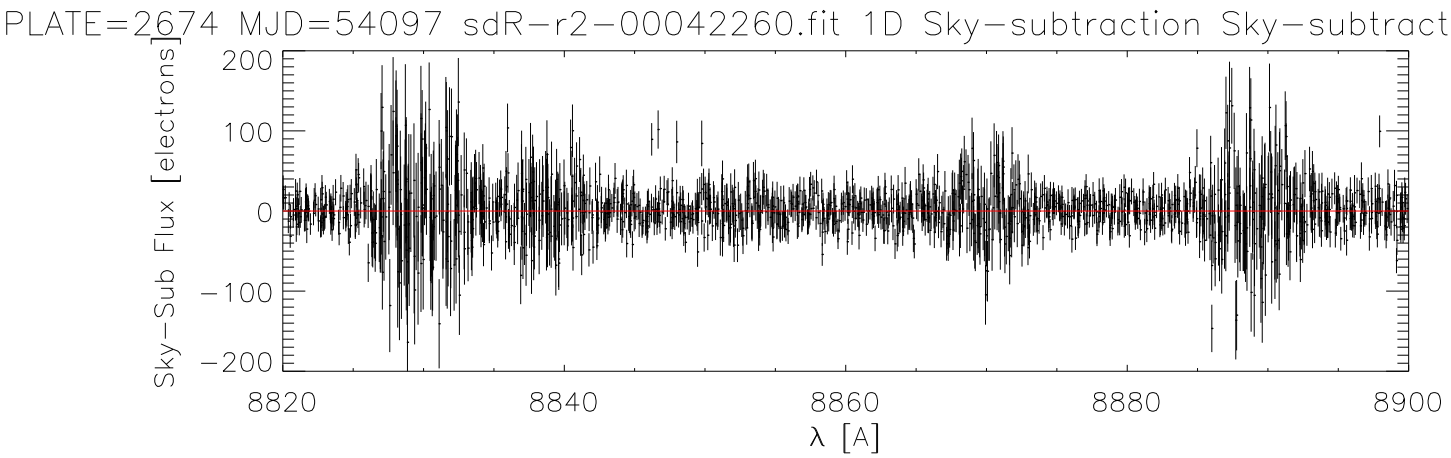

sky shift, pixels
0.40
0.35
0.30
5000
6000
7000
8000
9000
10000

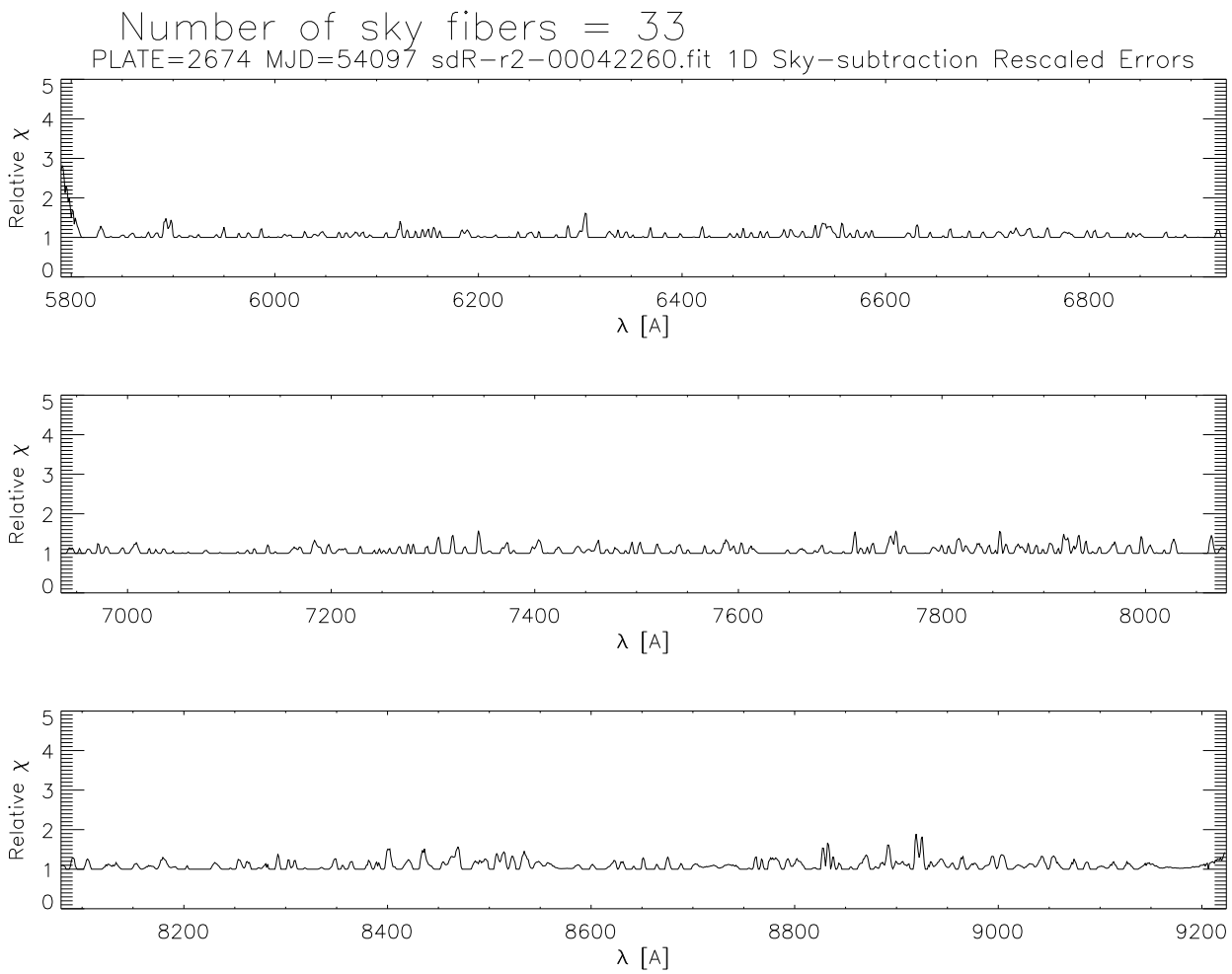

PLATE=2674 MJD=54097 Smooth superflat for sdR-r2-00042260.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

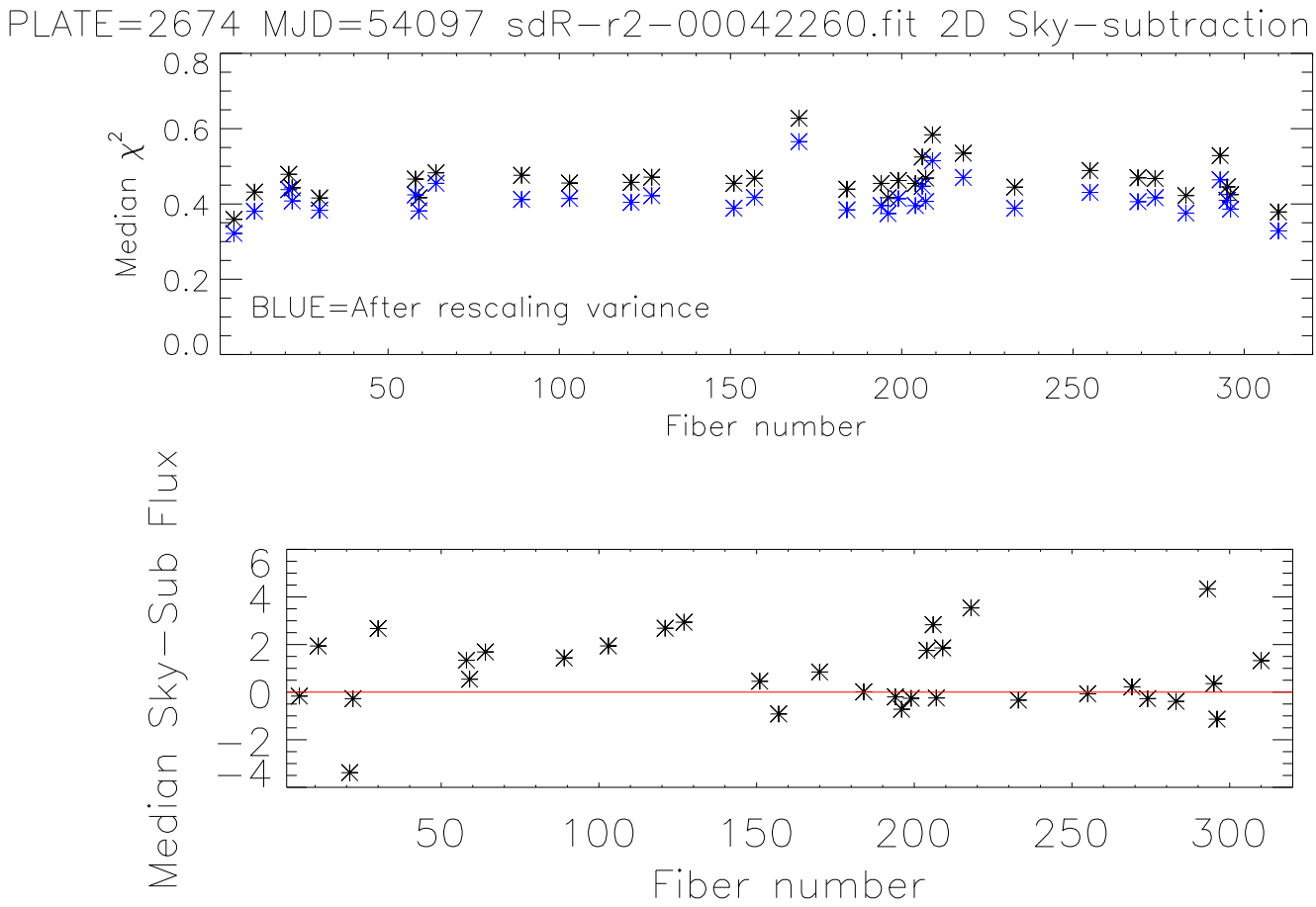

PLATE=2674 MJD=54097 sdR-r2-00042260.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

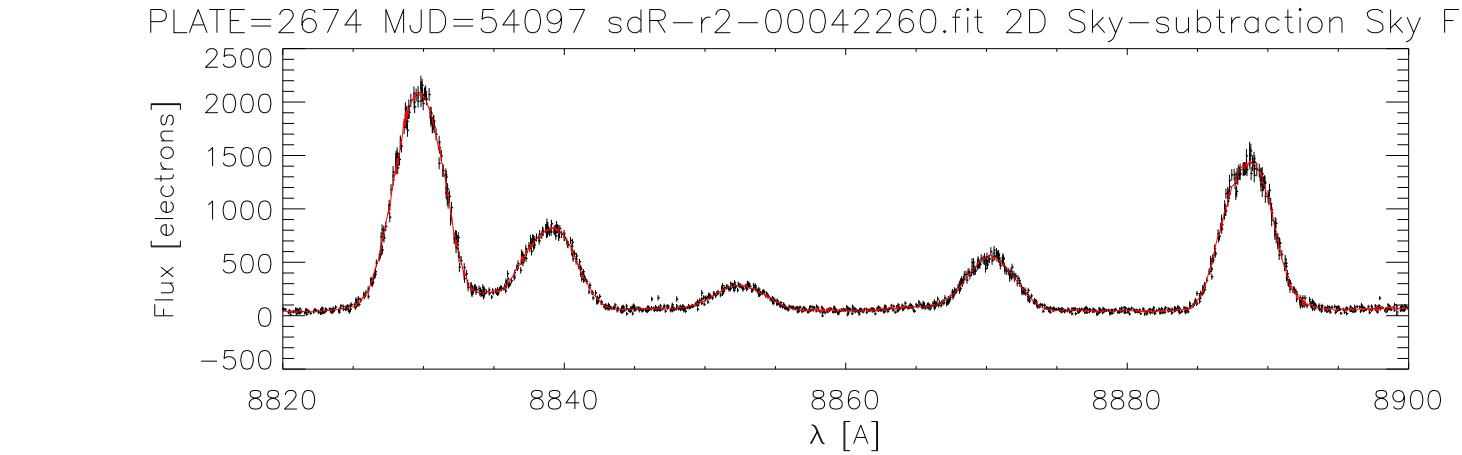
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

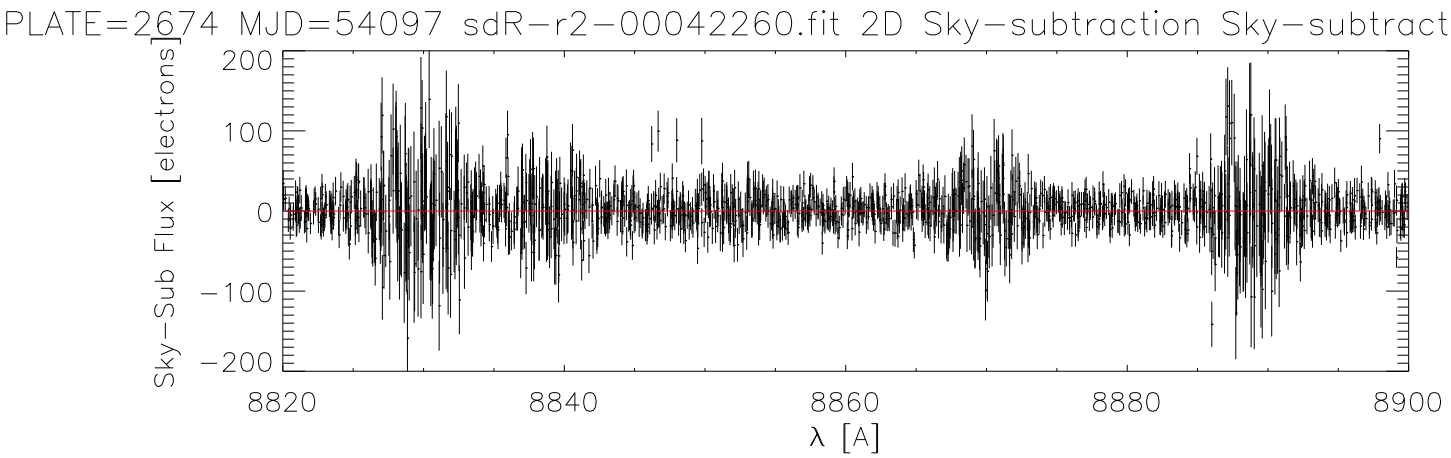

PLATE=2674 MJD=54097 sdR-r2-00042260.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

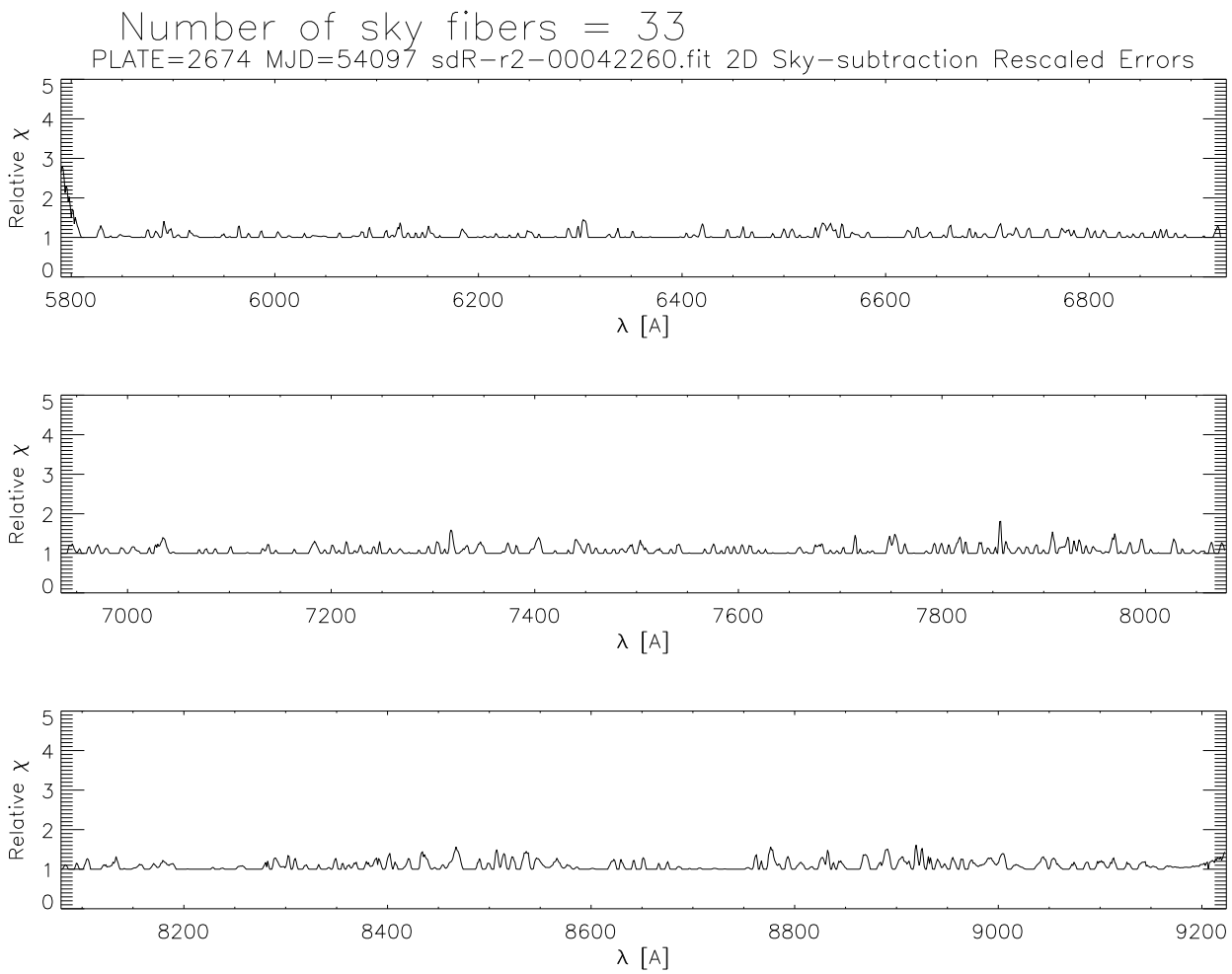

PLATE=2674 MJD=54097 sdR-r2-00042260.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

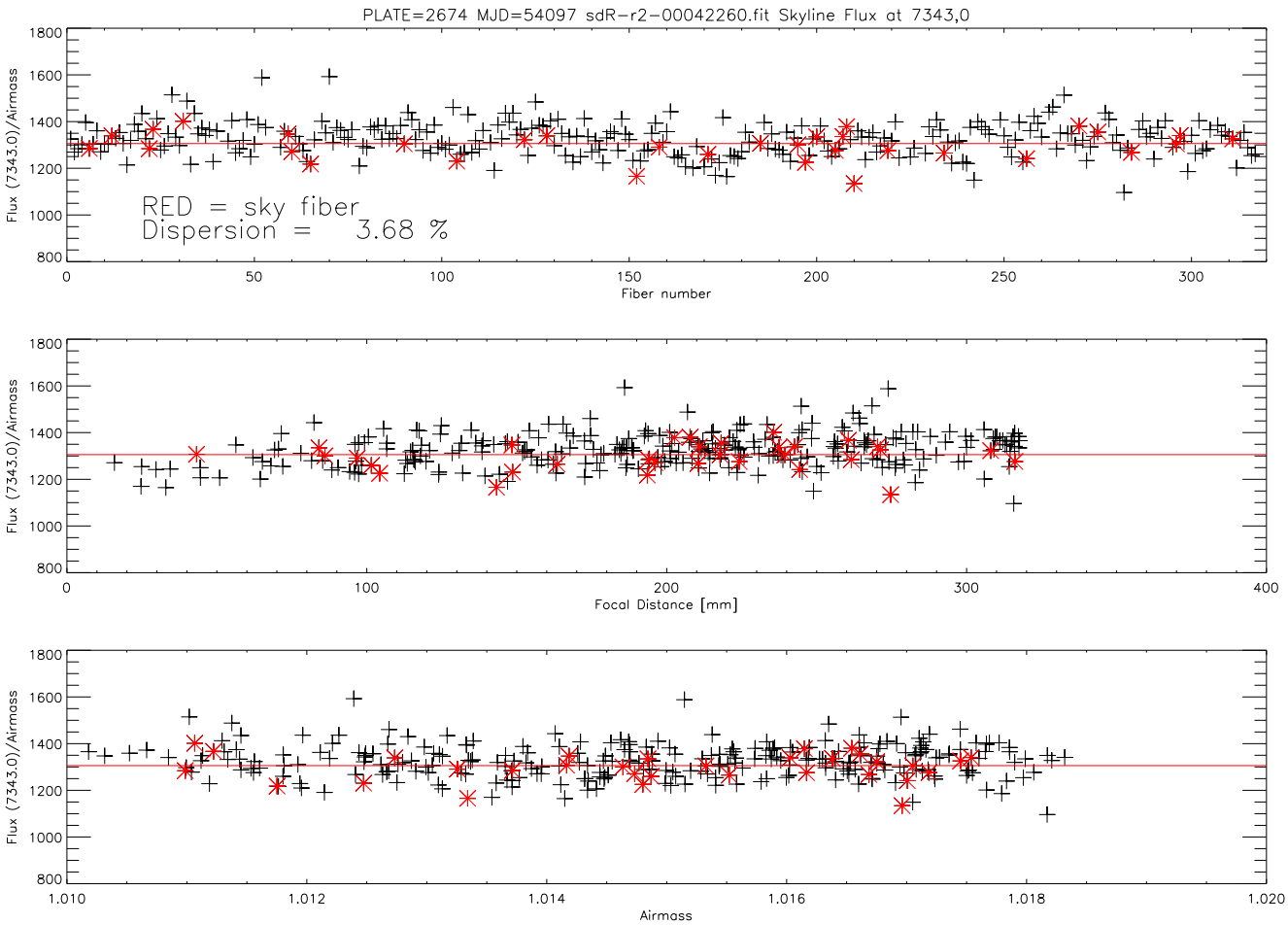

Number of sky fibers = 33
PLATE=2674 MJD=54097 sdR-r2-00042260.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

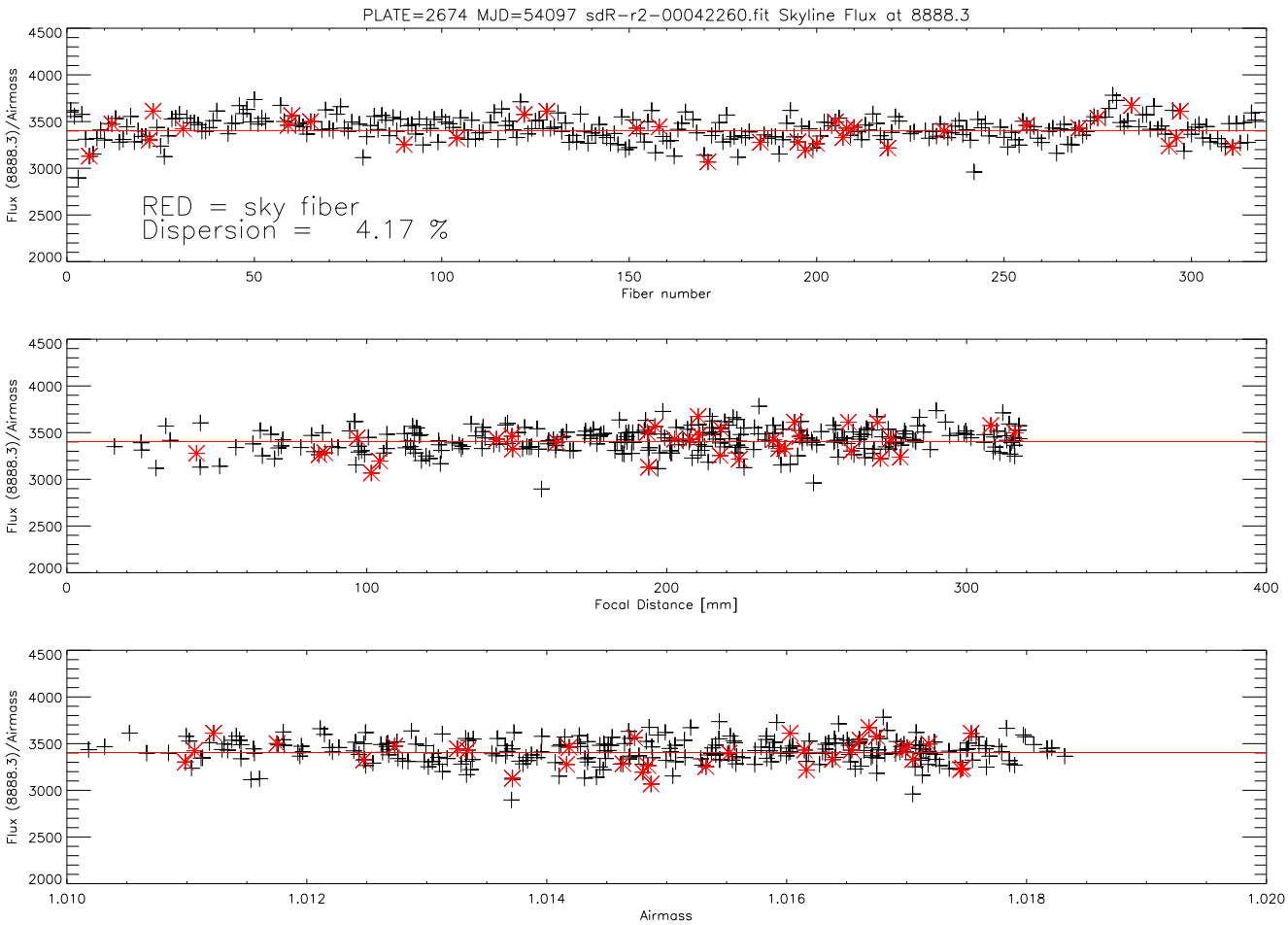

PLATE=2674 MJD=54097 sdR-r2-00042260.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number


PLATE=2674 MJD=54097 sdR-r2-00042260.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]


PLATE=2674 MJD=54097 sdR-r2-00042260.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]


Number of sky fibers = 33
PLATE=2674 MJD=54097 sdR-r2-00042260.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=2674 MJD=54097 sdR-r2-00042260.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.68 %
Fiber number
Focal Distance [mm]
Airmass


PLATE=2674 MJD=54097 sdR-r2-00042260.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 4.17 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass