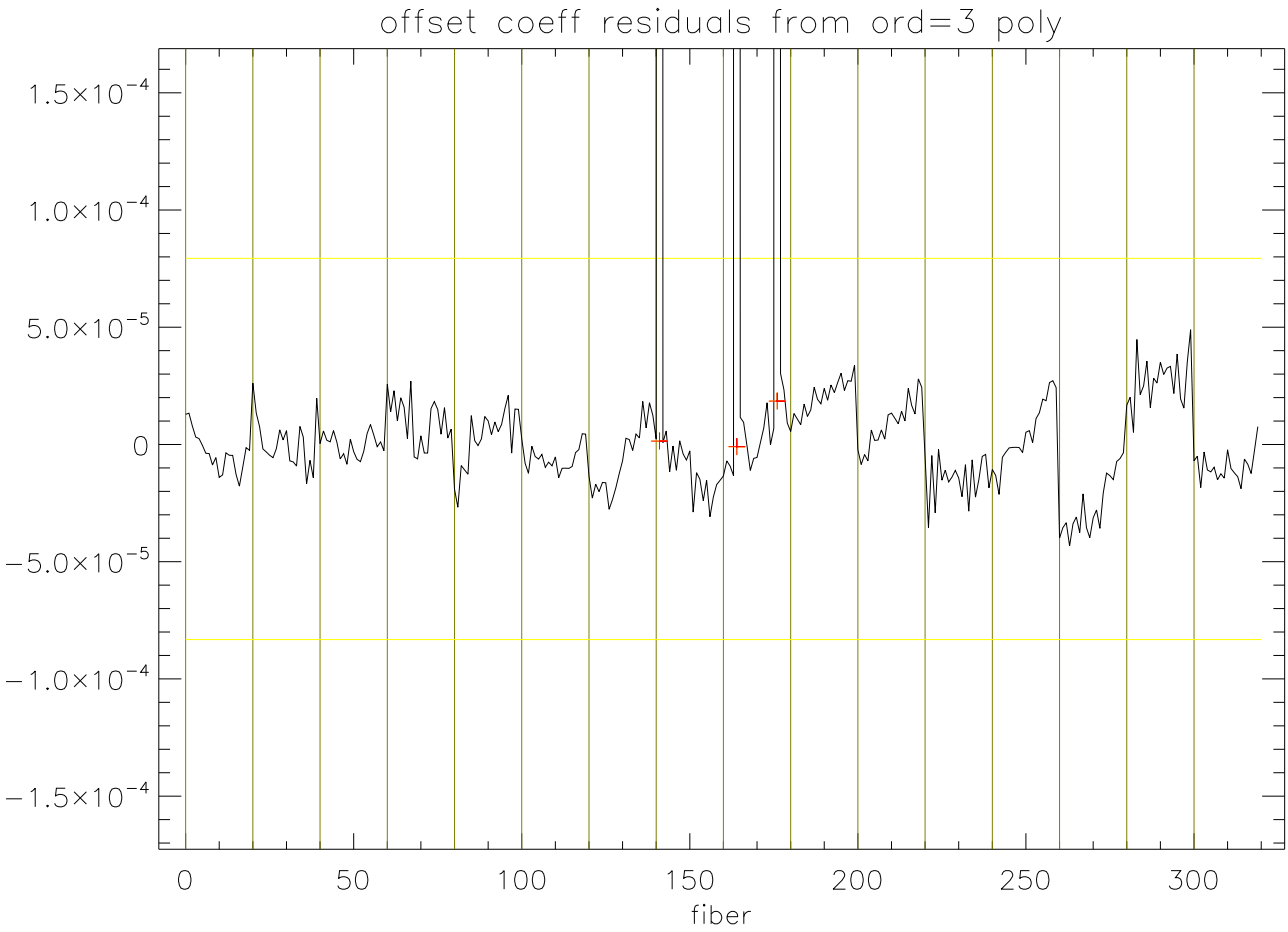
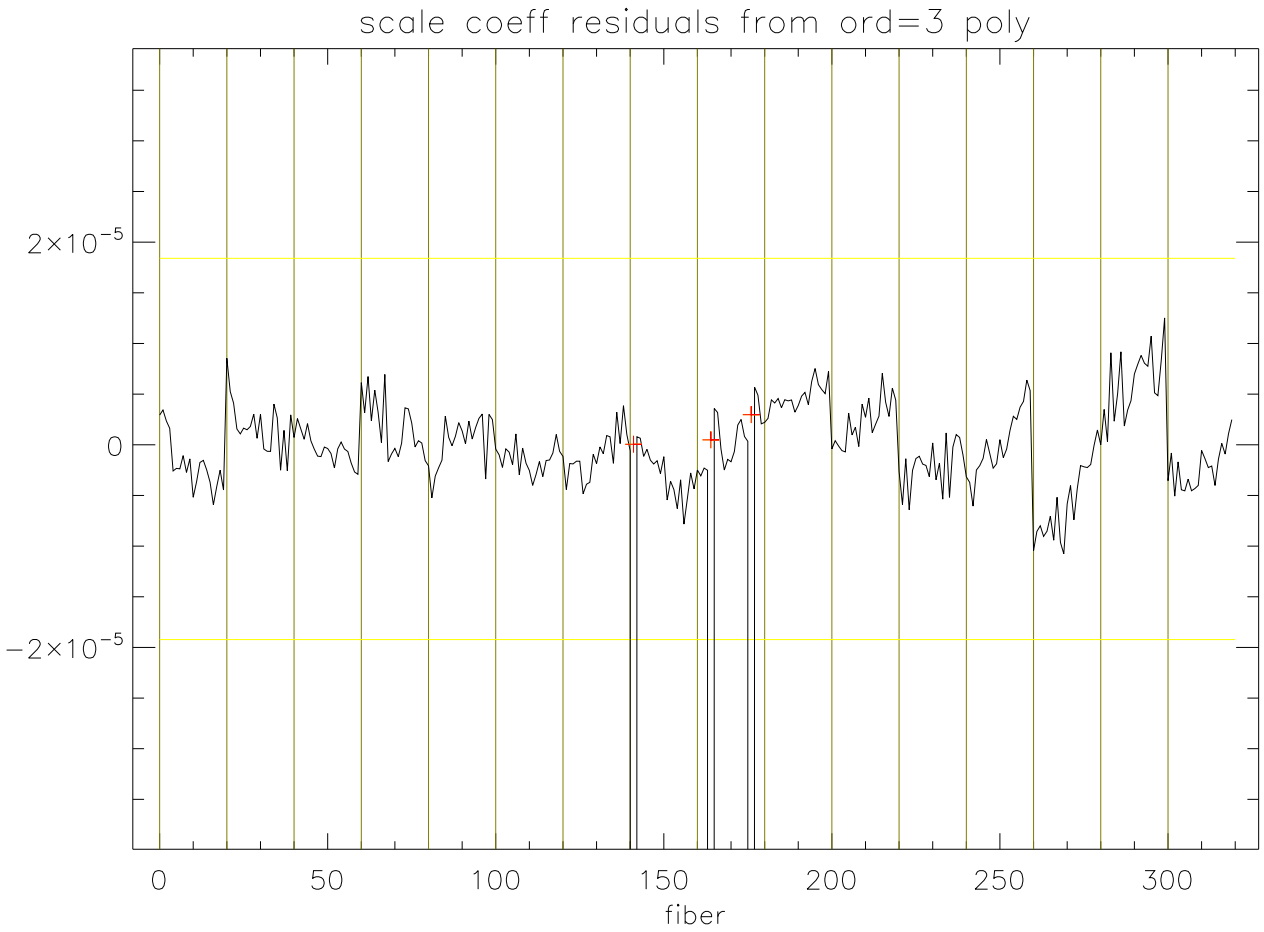
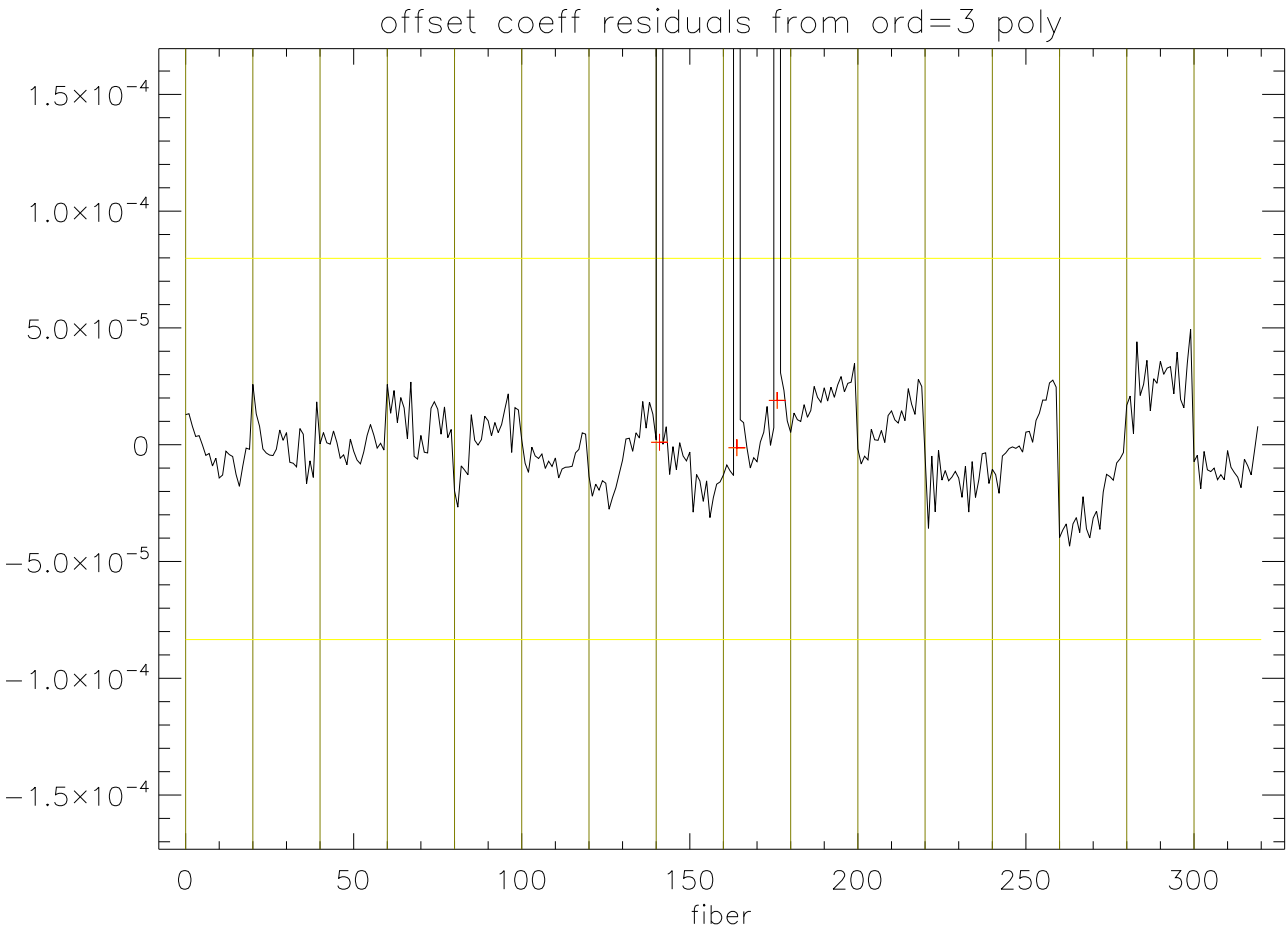
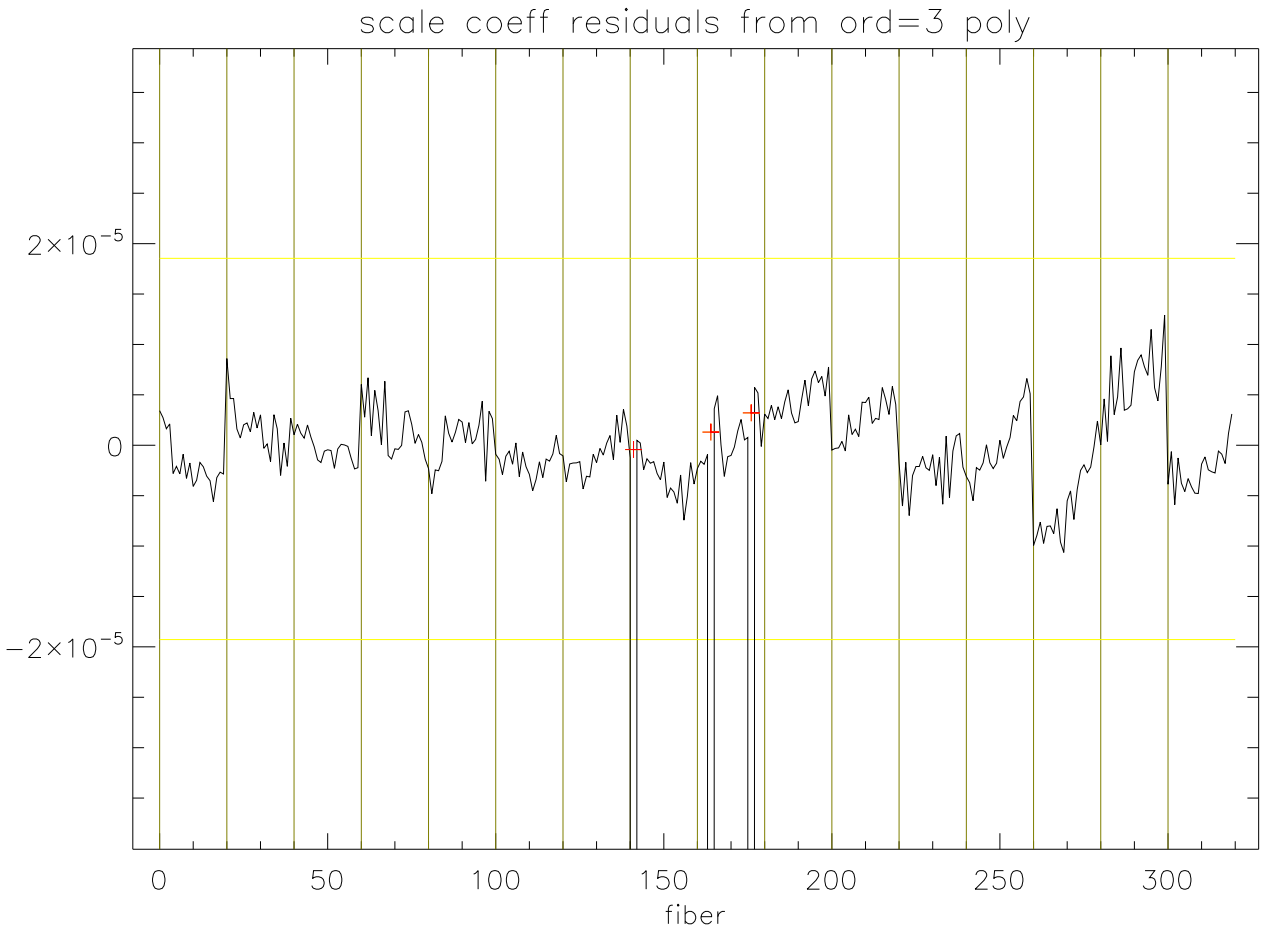
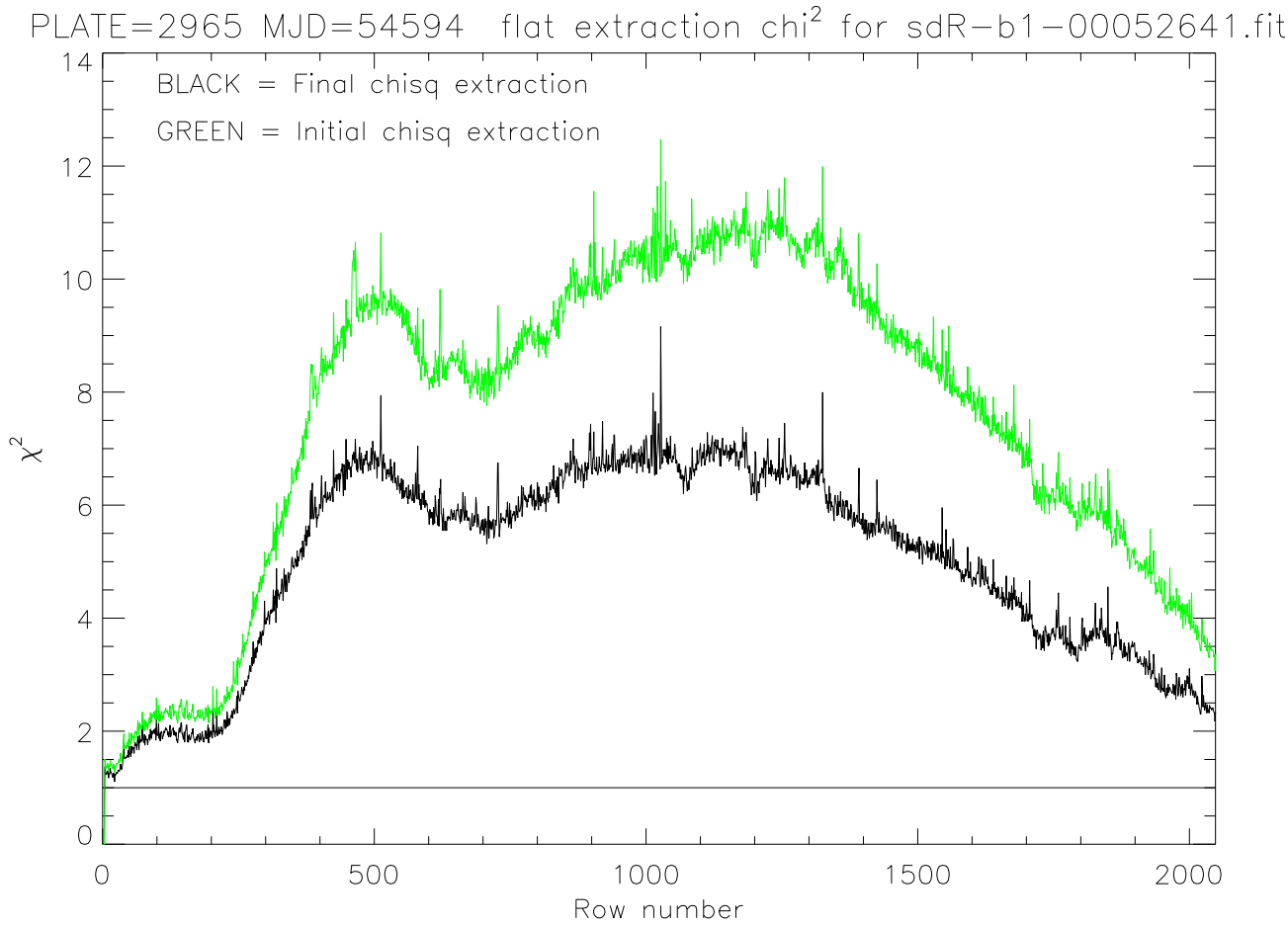
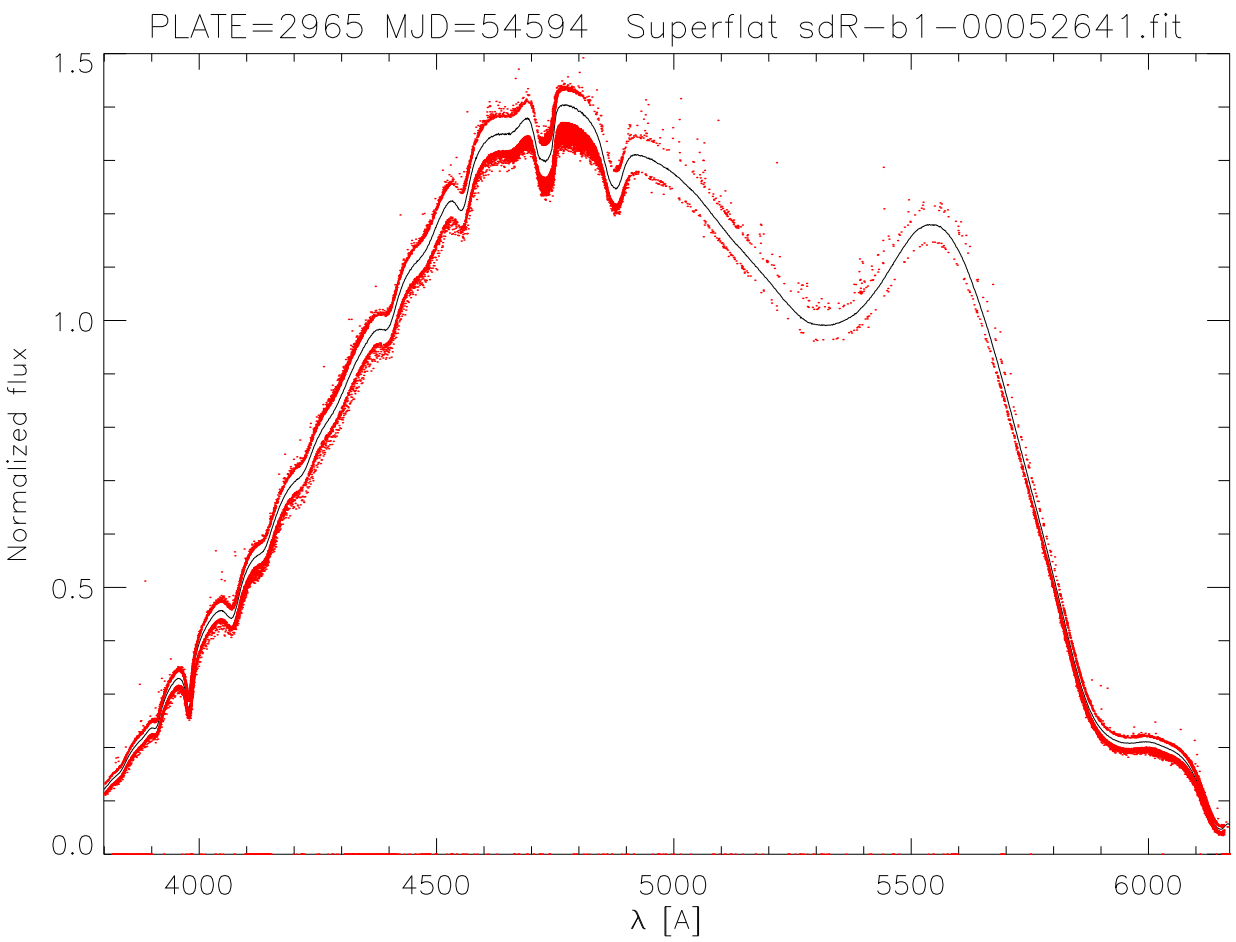

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

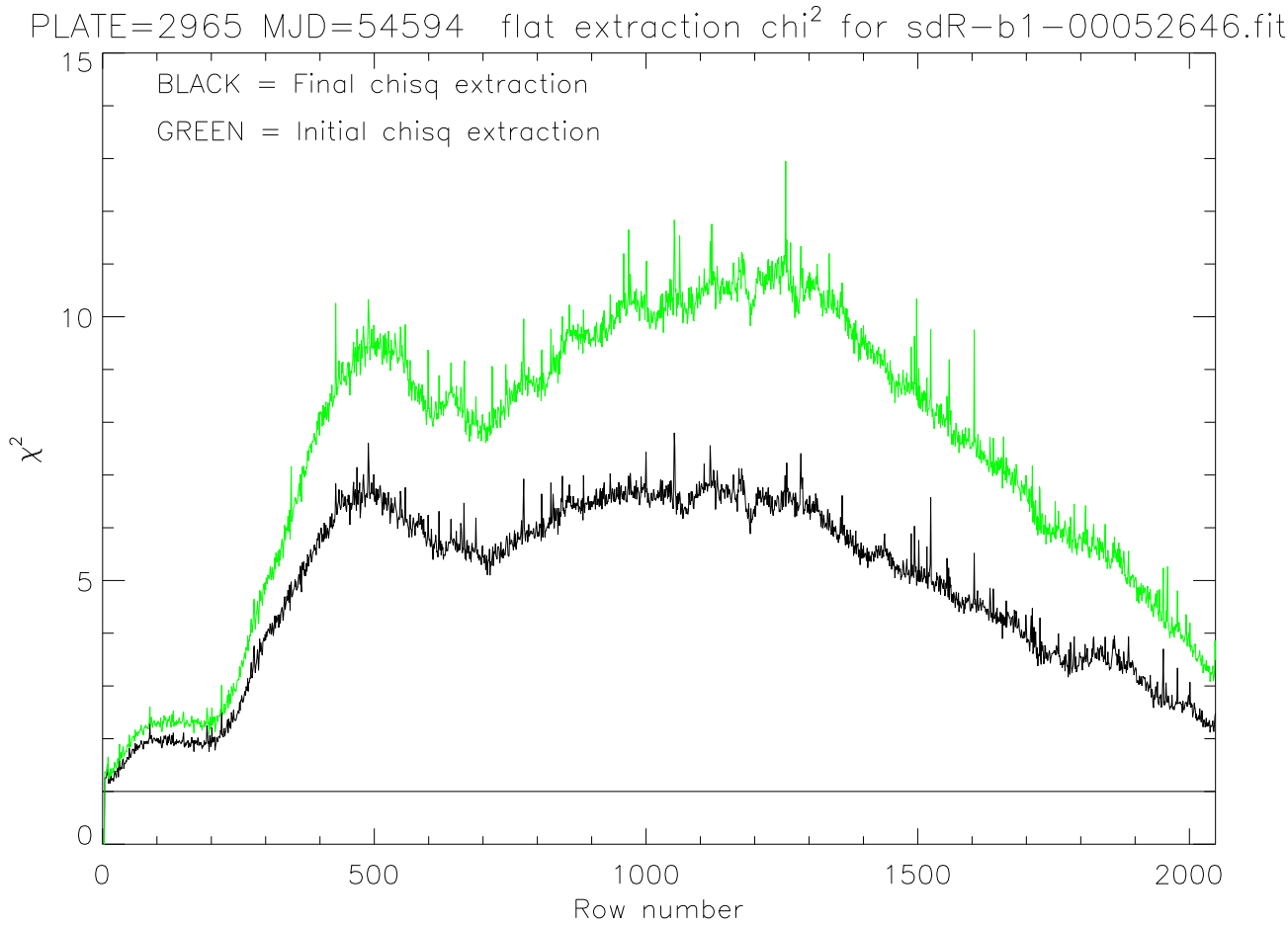

scale coeff residuals from ord=3 poly
2×10^-5
0
−2×10^-5
0
50
100
150
200
250
300
fiber

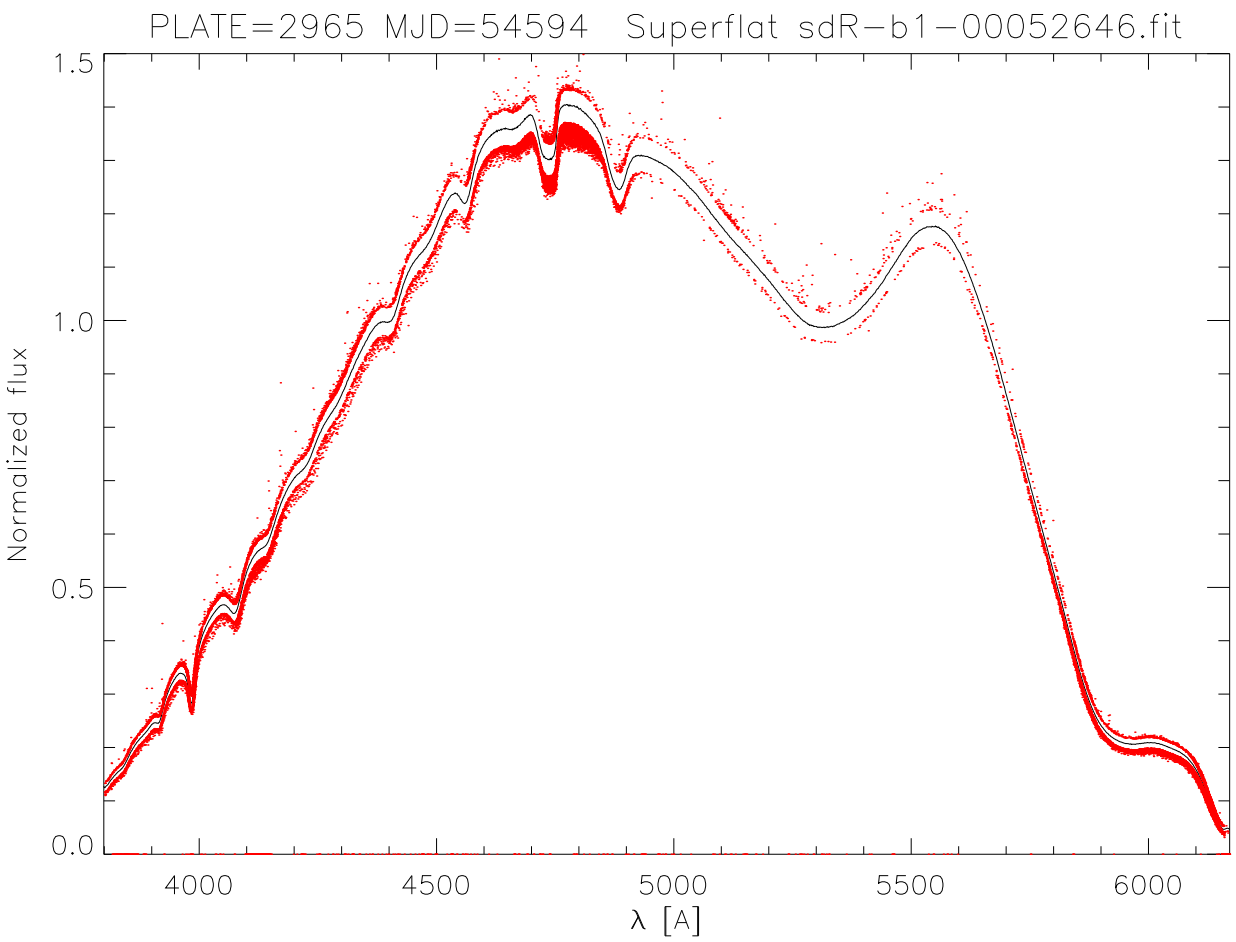

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

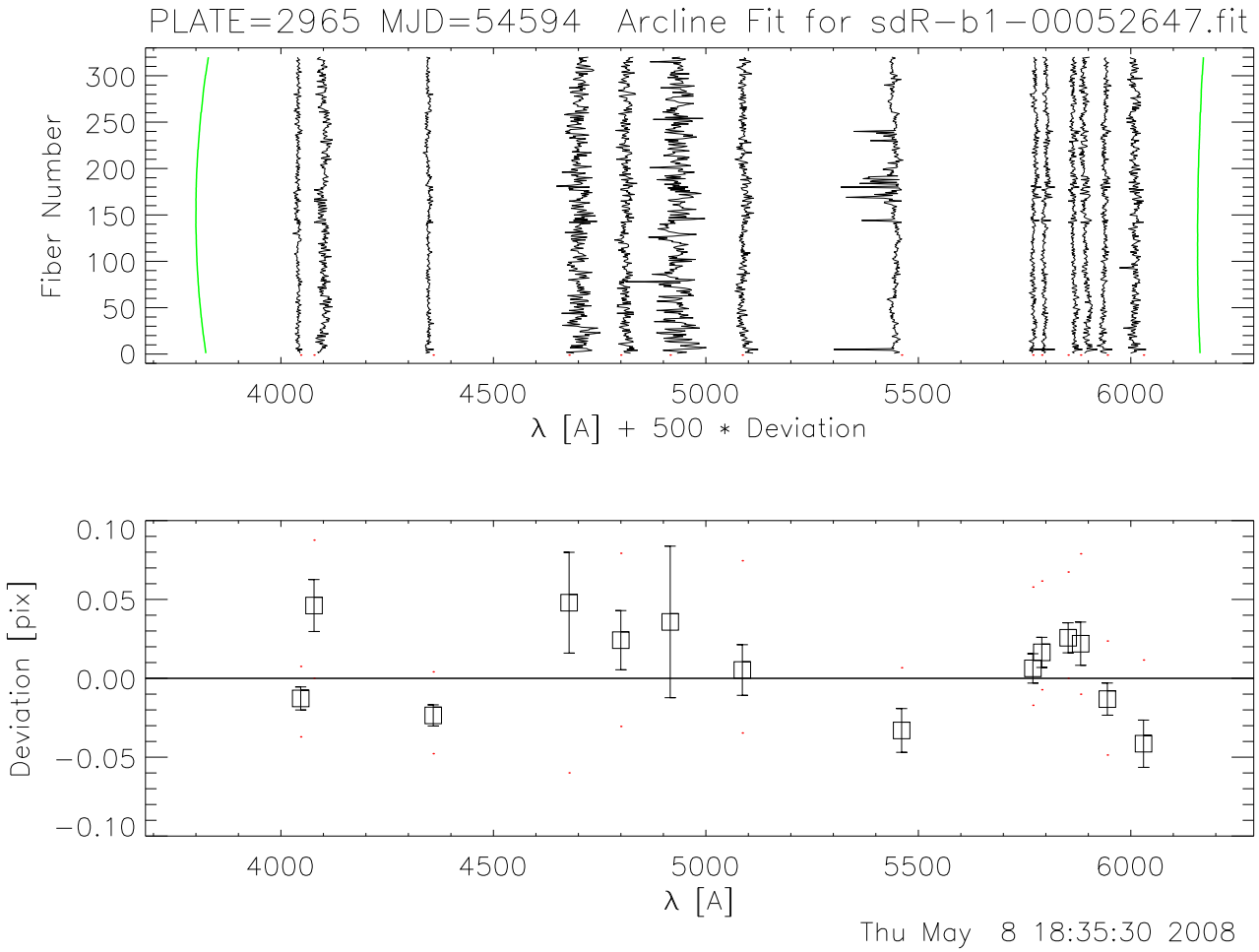

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

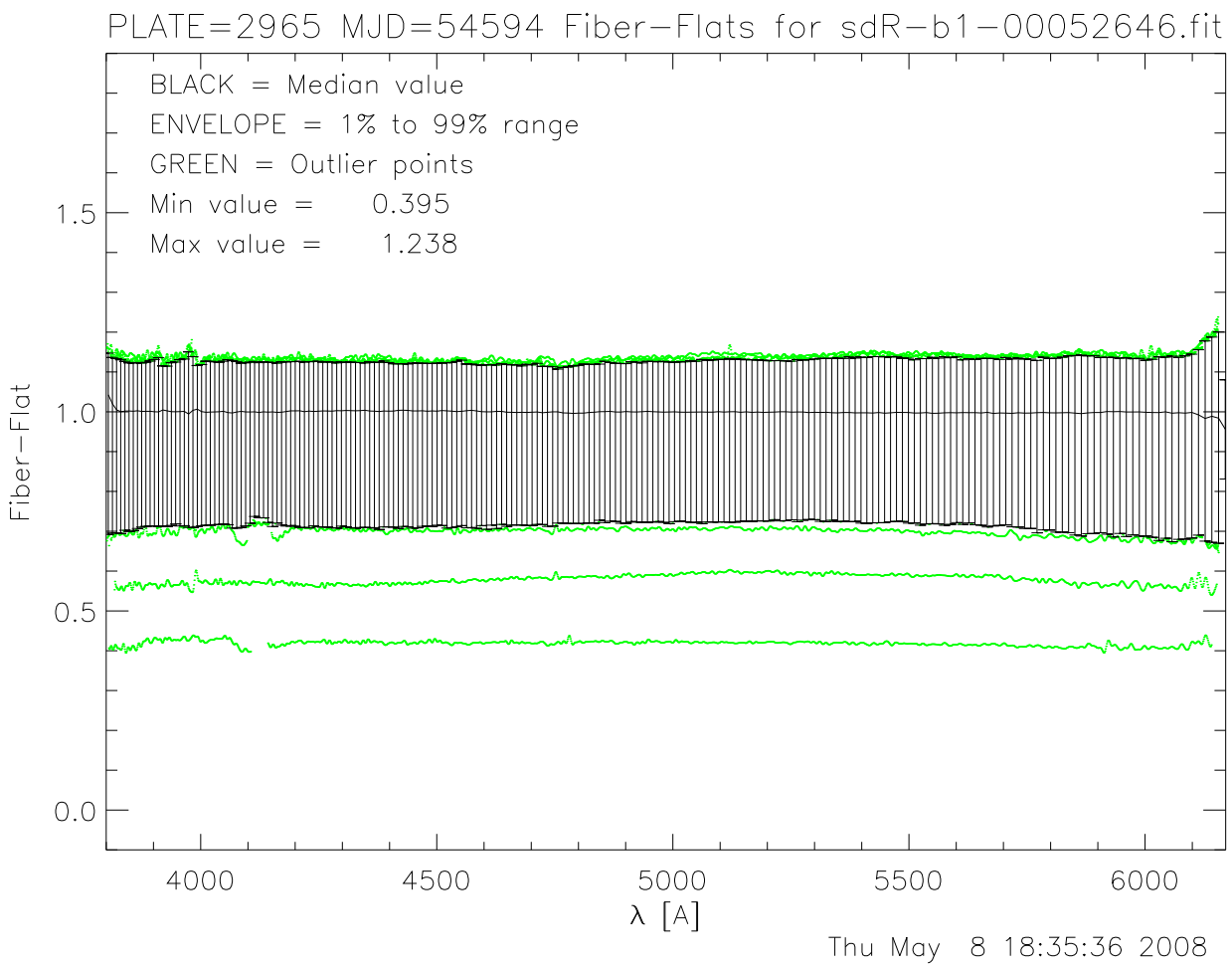

PLATE=2965 MJD=54594 flat extraction chi^2 for sdR−b1−00052641.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
14
0
500
1000
1500
2000

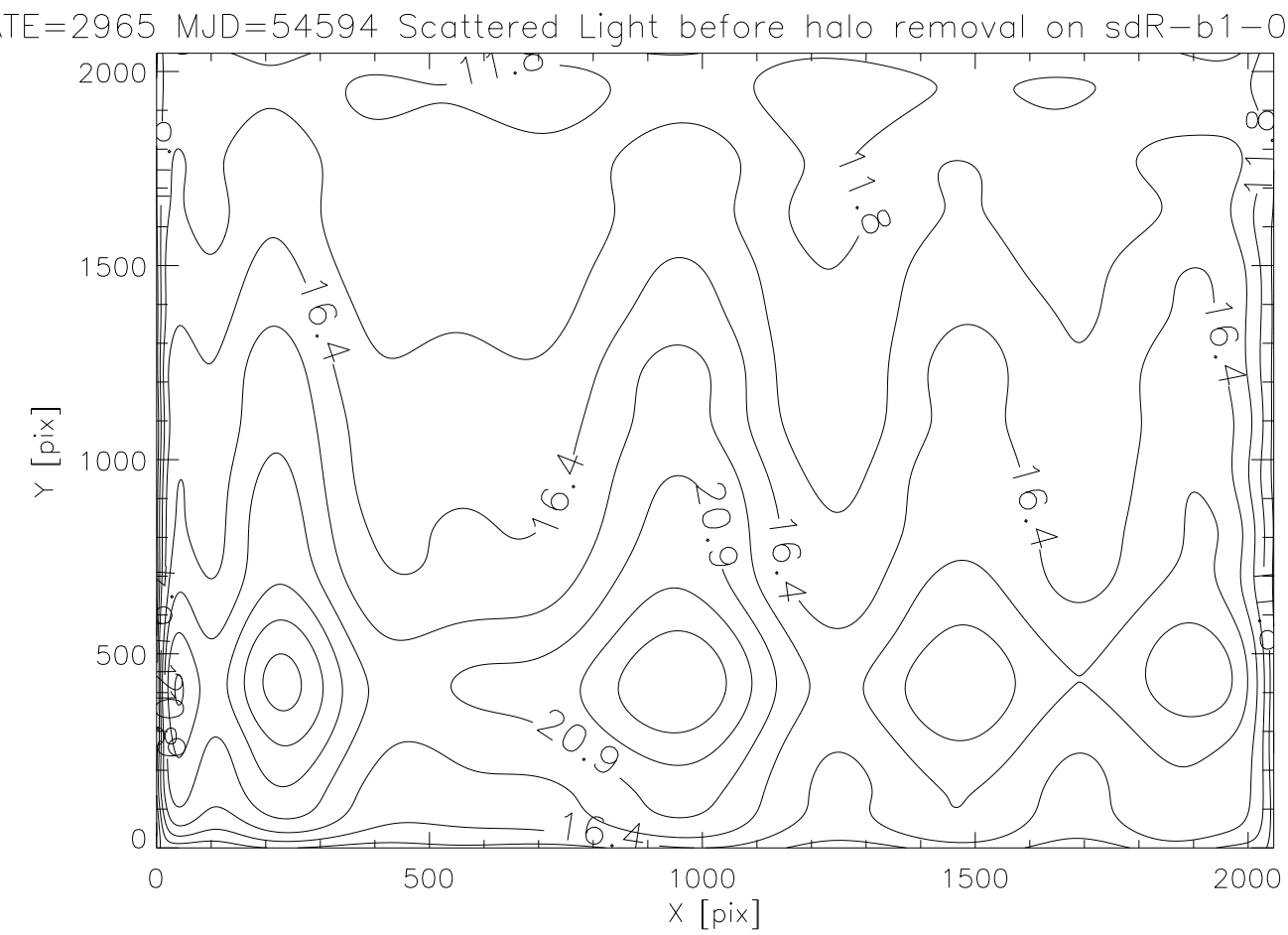

PLATE=2965 MJD=54594 Superflat sdR-b1-00052641.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

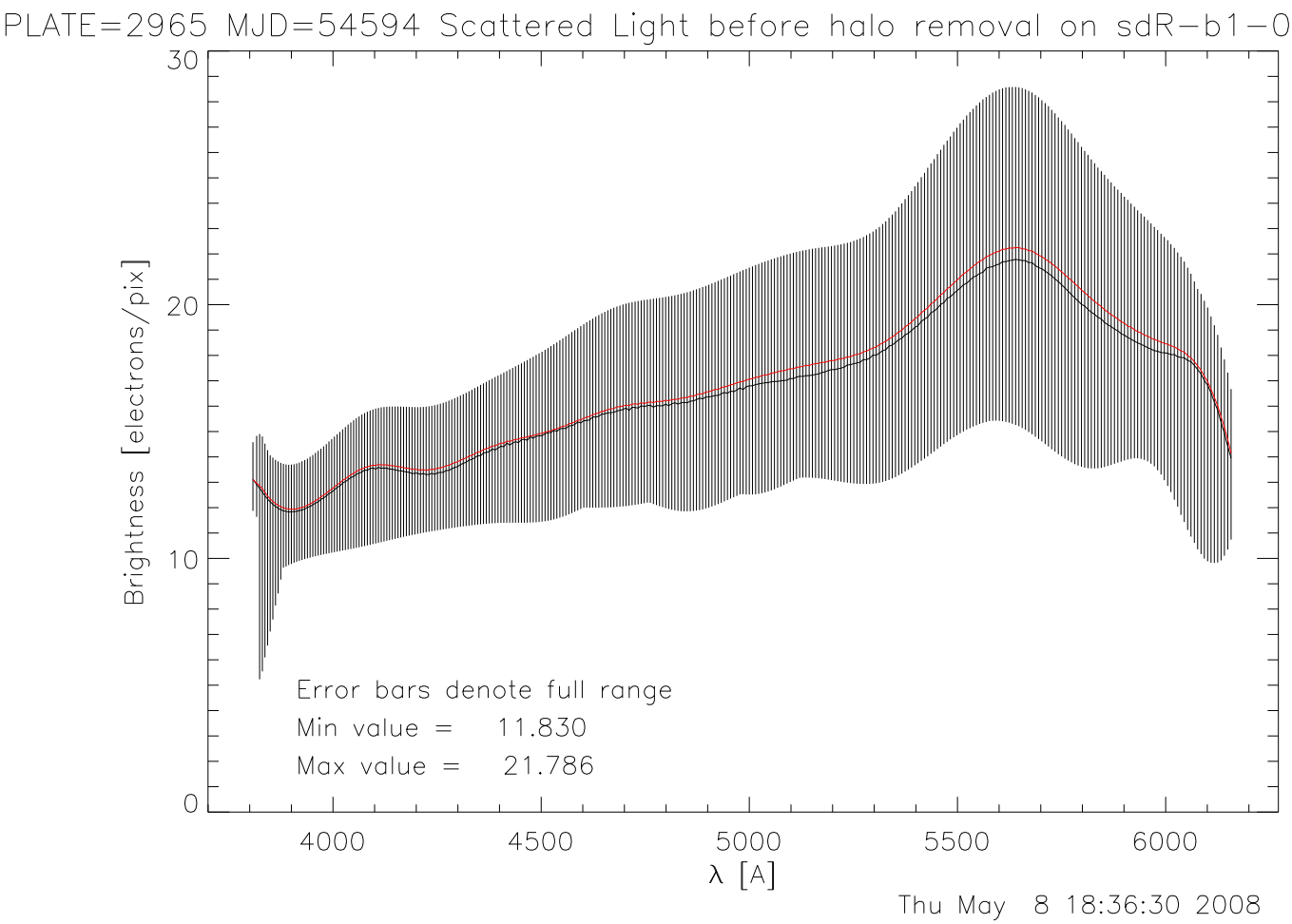

PLATE=2965 MJD=54594 flat extraction chi^2 for sdR−b1−00052646.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
5
10
15
0
500
1000
1500
2000

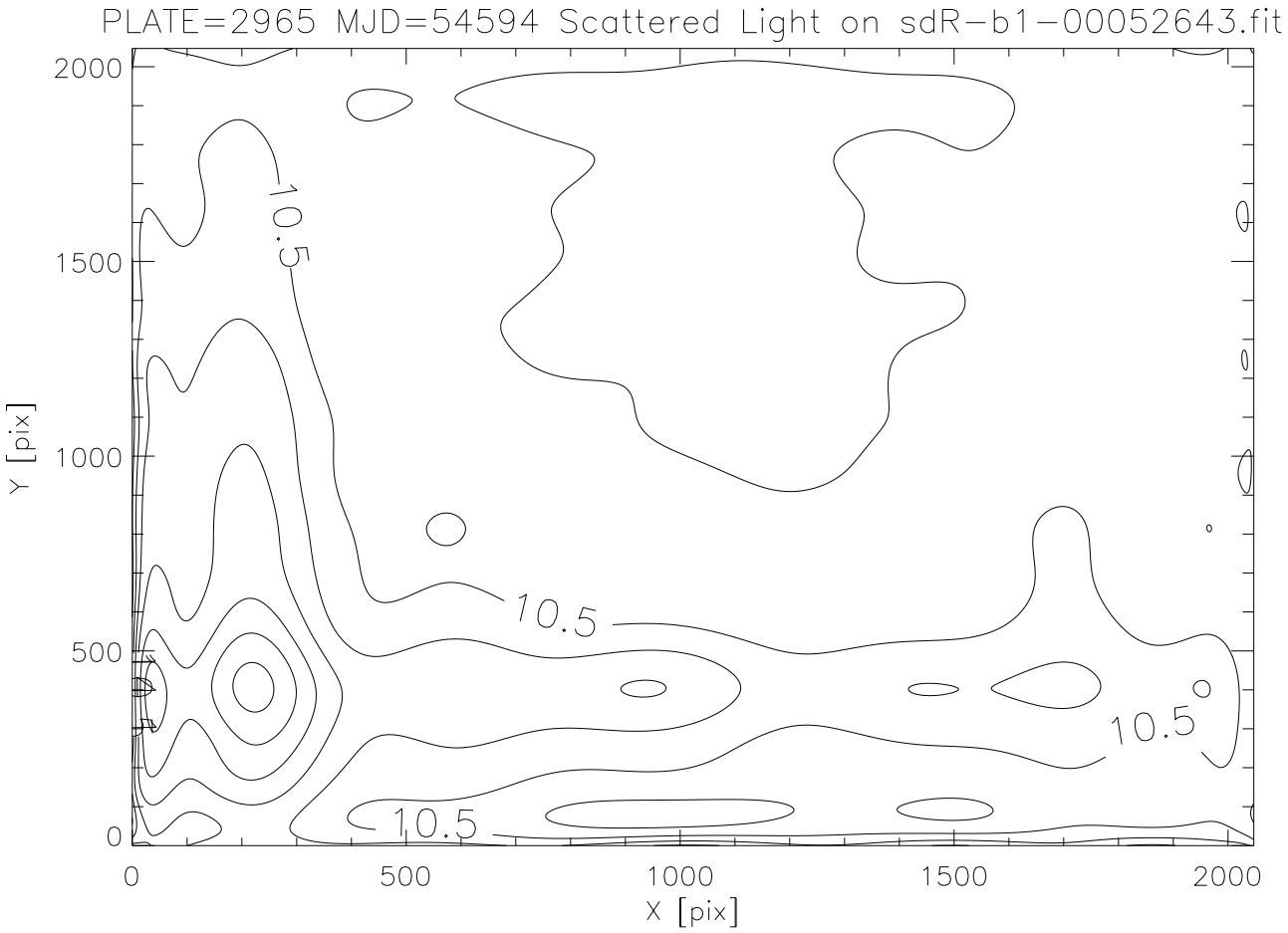

PLATE=2965 MJD=54594 Superflat sdR-b1-00052646.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

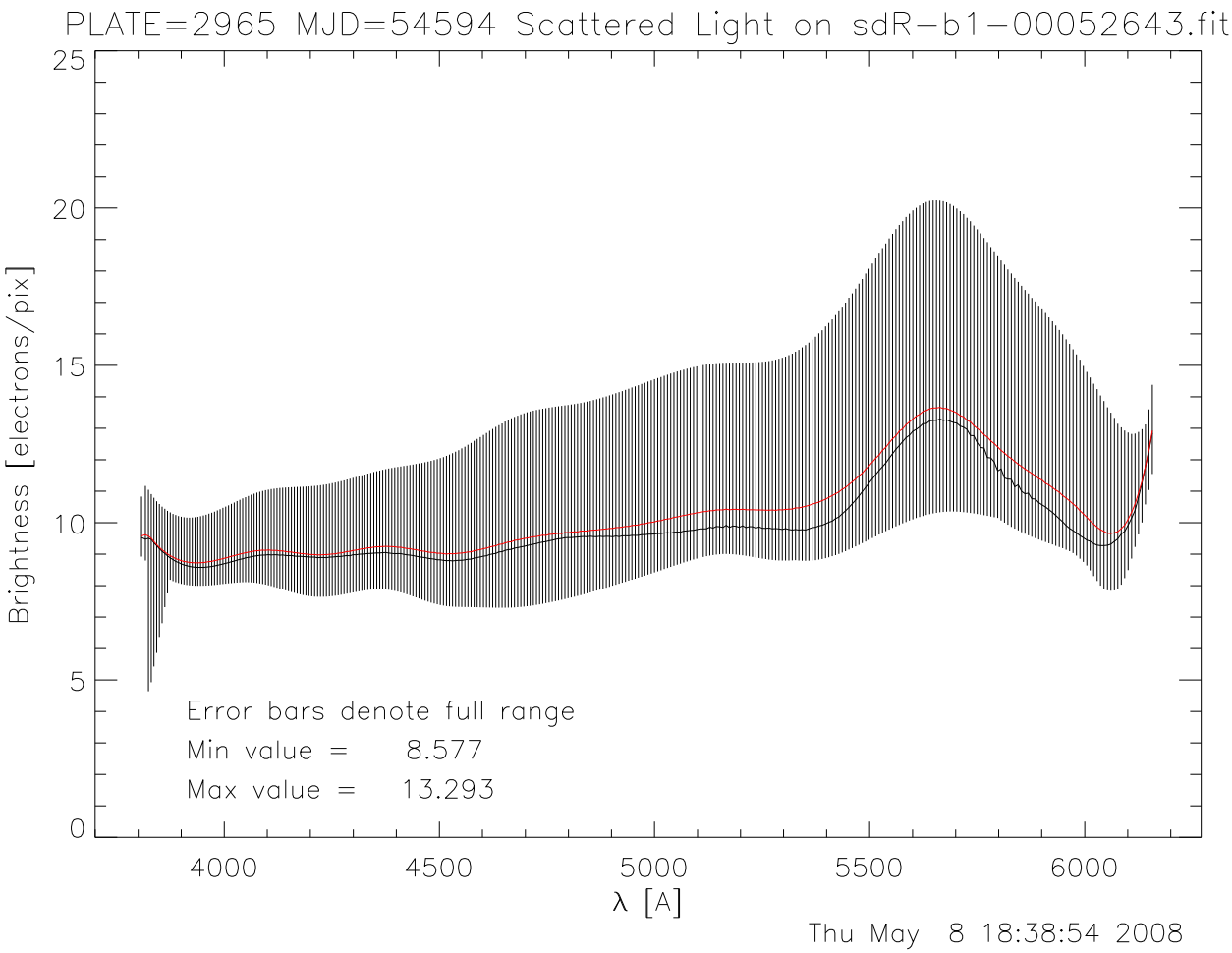

PLATE=2965 MJD=54594 Arcline Fit for sdR-b1-00052647.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Thu May 8 18:35:30 2008

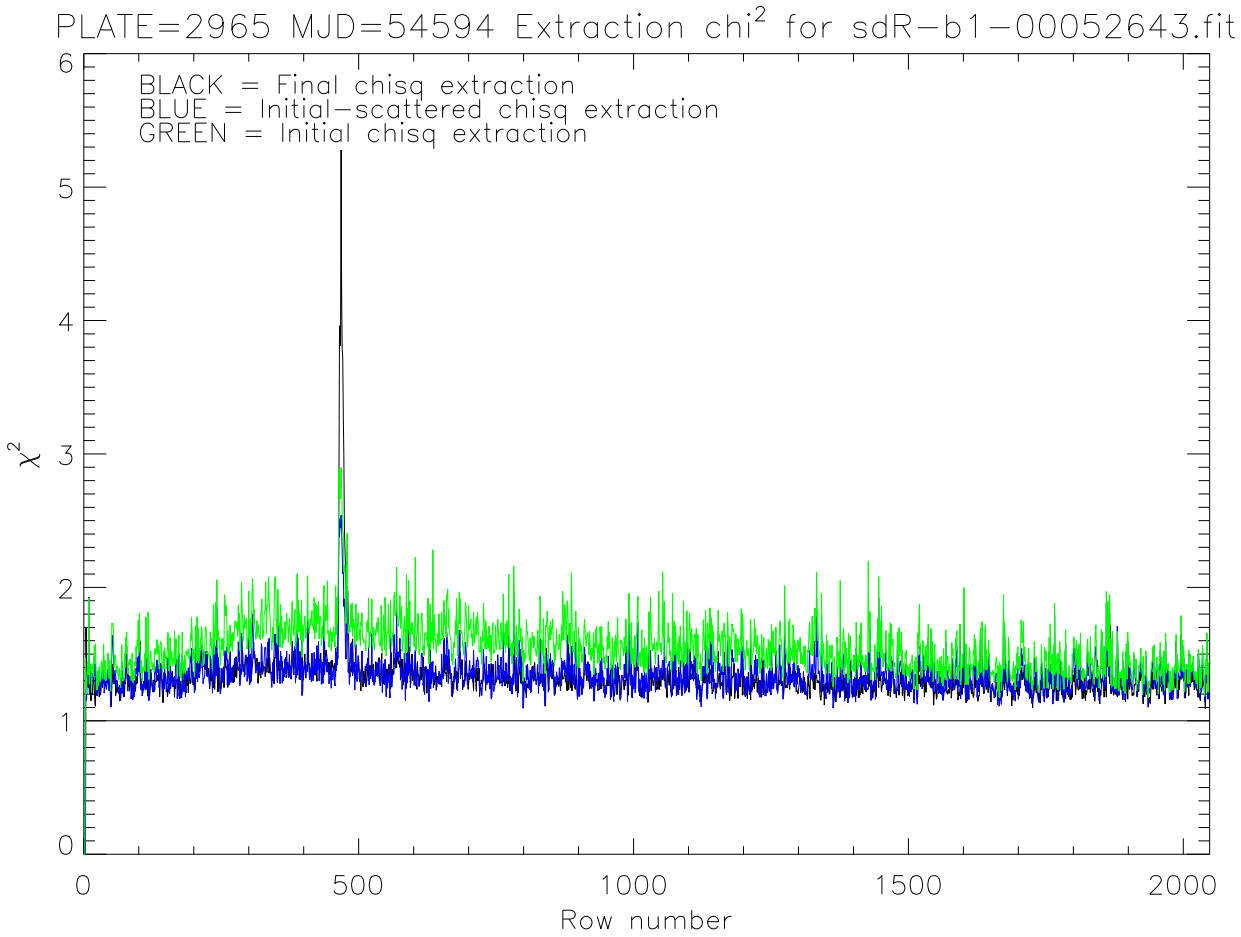

PLATE=2965 MJD=54594 Fiber-Flats for sdR-b1-00052646.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.395
Max value = 1.238
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Thu May 8 18:35:36 2008

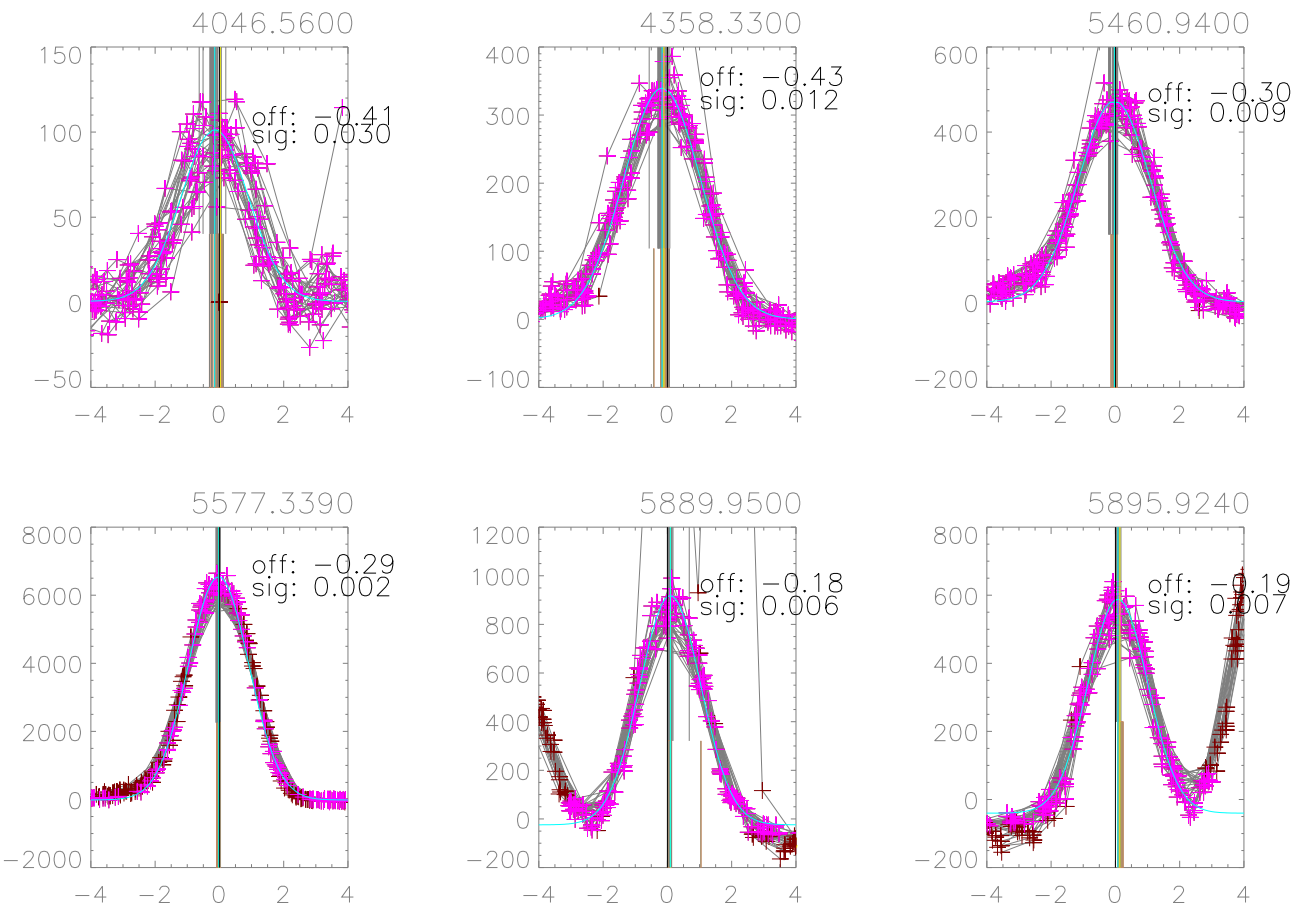

PLATE=2965 MJD=54594 Scattered Light before halo removal on sdR−b1−00052643.f
11.8
16.4
20.9
Y [pix]
X [pix]
0
500
1000
1500
2000

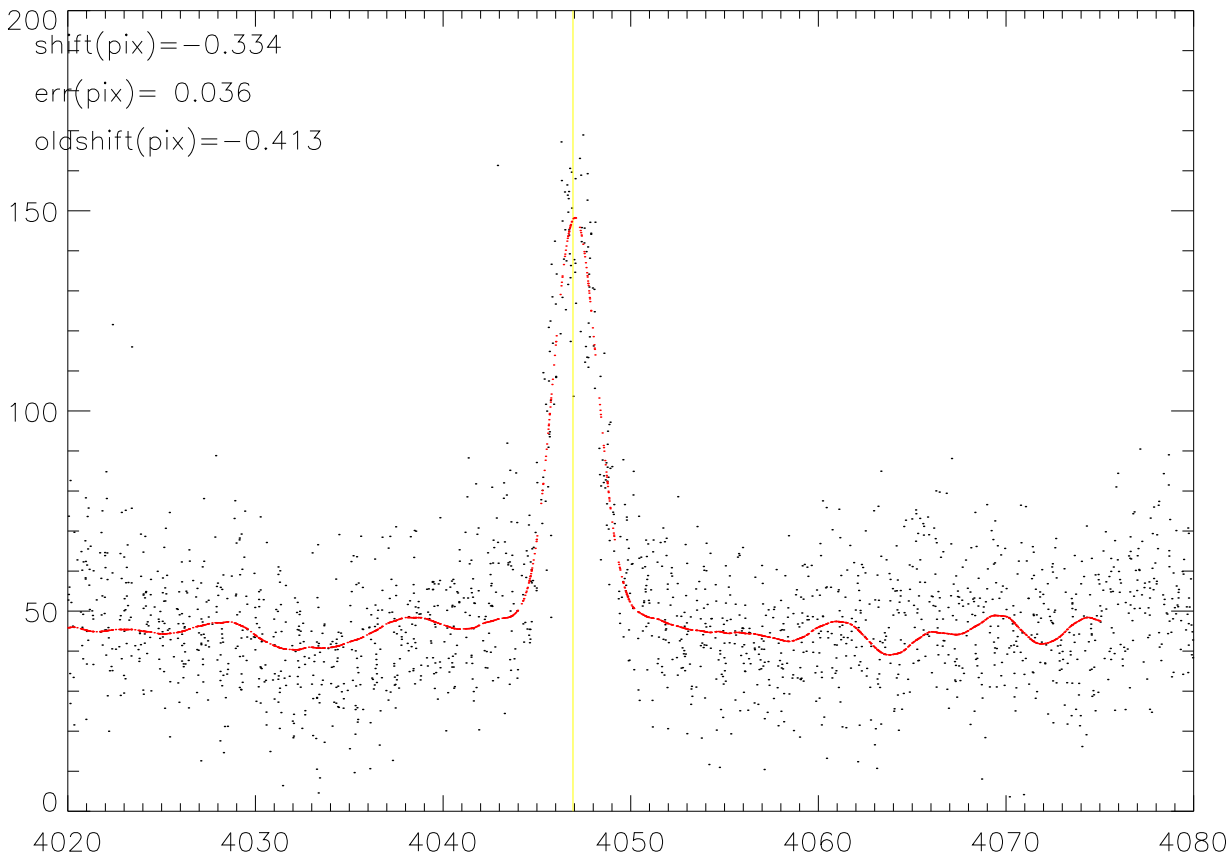

PLATE=2965 MJD=54594 Scattered Light before halo removal on sdR−b1−00052643.f
Brightness [electrons/pix]
30
20
10
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 11.830
Max value = 21.786
Thu May 8 18:36:30 2008

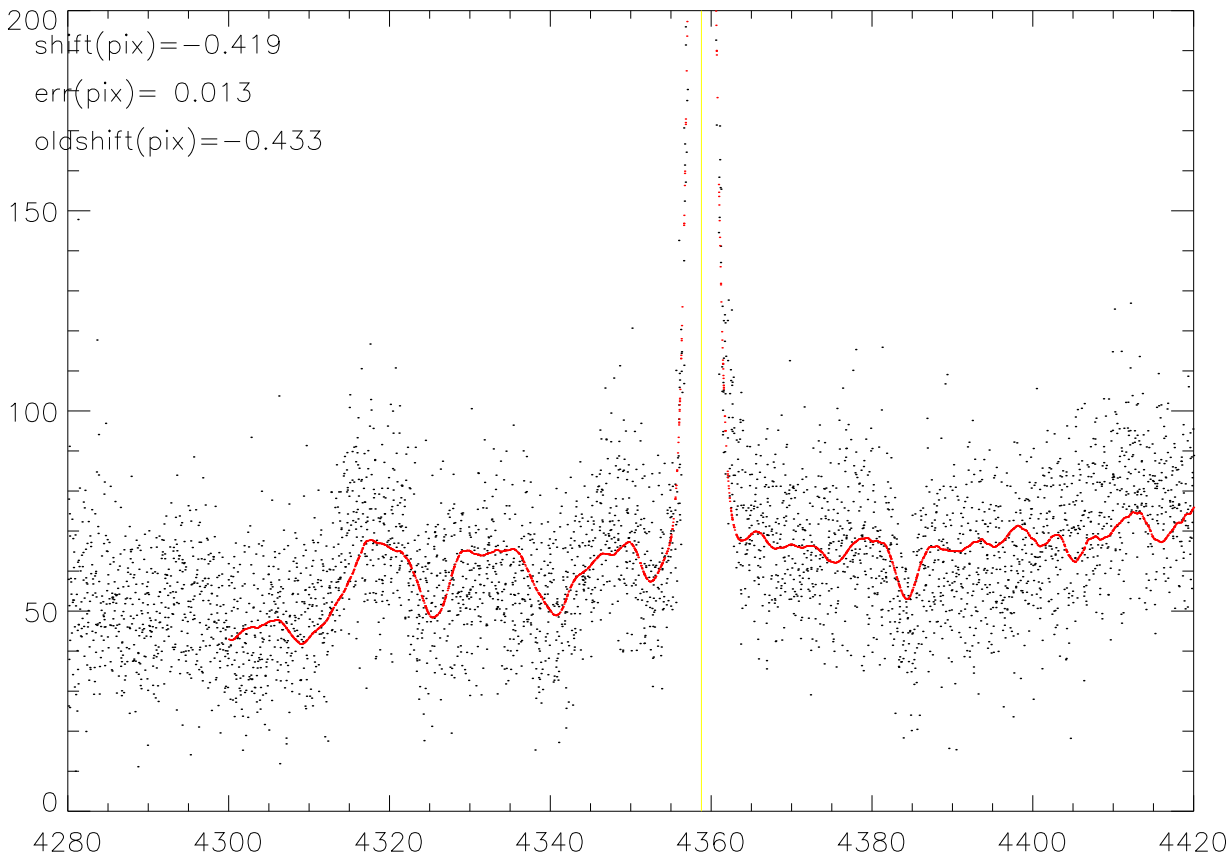

PLATE=2965 MJD=54594 Scattered Light on sdR-b1-00052643.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
10.5
10.5
10.5
10.5

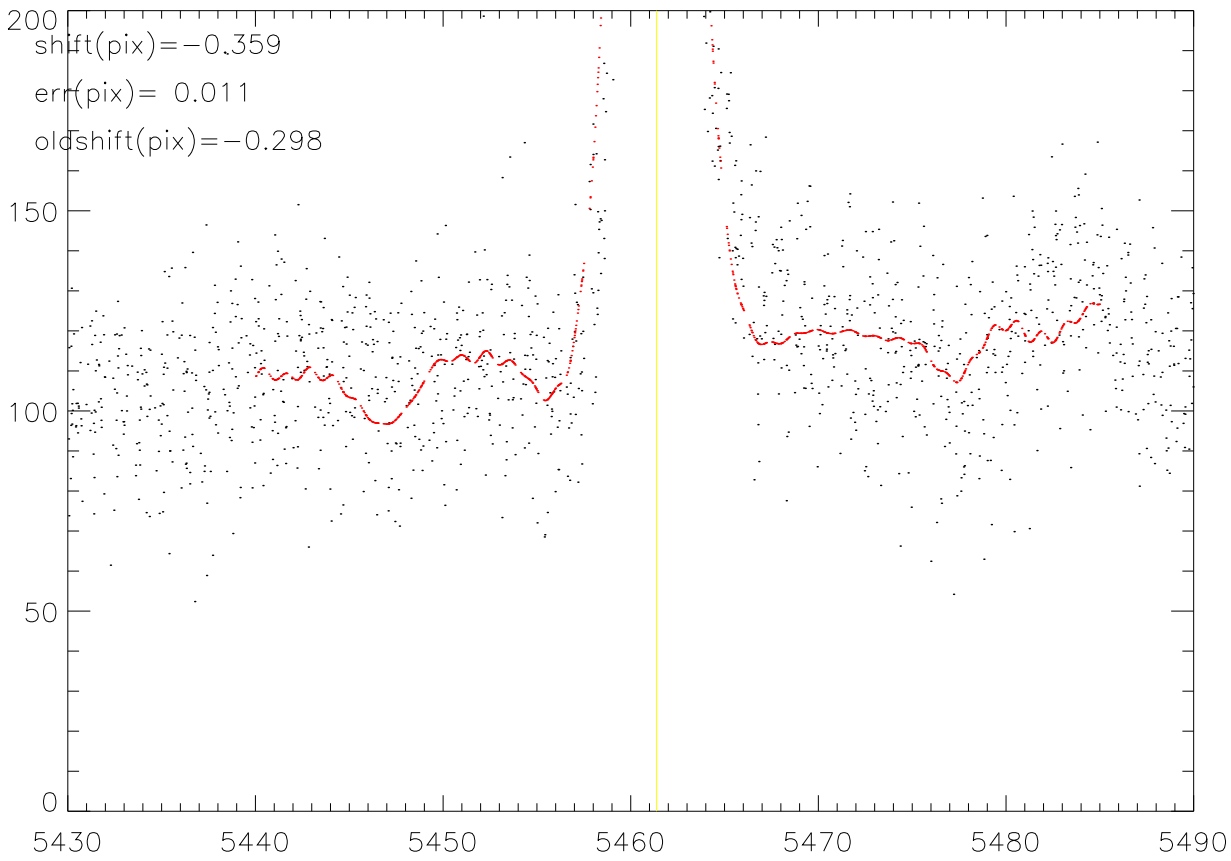

PLATE=2965 MJD=54594 Scattered Light on sdR-b1-00052643.fit
Brightness [electrons/pix]
25
20
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 8.577
Max value = 13.293
Thu May 8 18:38:54 2008

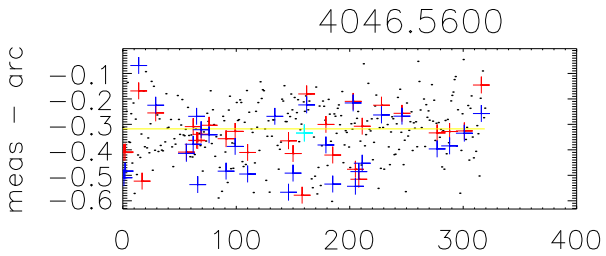

PLATE=2965 MJD=54594 Extraction chi^2 for sdR-b1-00052643.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

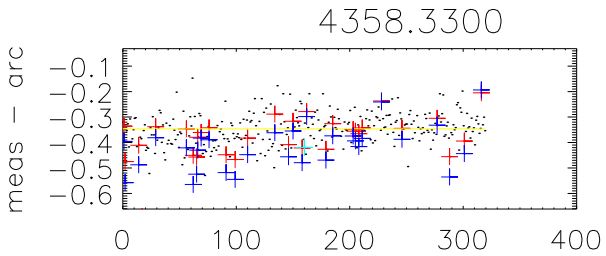

4046.5600
off: −0.41
sig: 0.030
4358.3300
off: −0.43
sig: 0.012
5460.9400
off: −0.30
sig: 0.009
5577.3390
off: −0.29
sig: 0.002
5889.9500
off: −0.18
sig: 0.006
5895.9240
off: −0.19
sig: 0.007

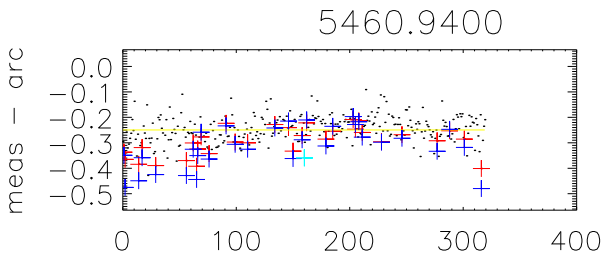

shift(pix)=−0.334
err(pix)= 0.036
oldshift(pix)=−0.413
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

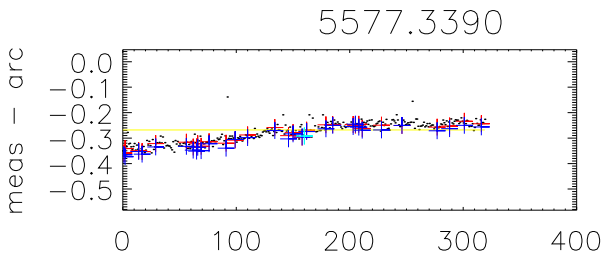

shift(pix)=−0.419
err(pix)= 0.013
oldshift(pix)=−0.433
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

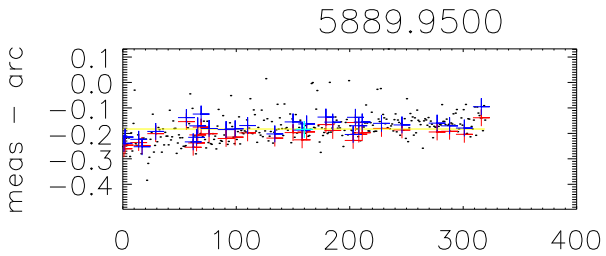

shift(pix)=−0.359
err(pix)= 0.011
oldshift(pix)=−0.298
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

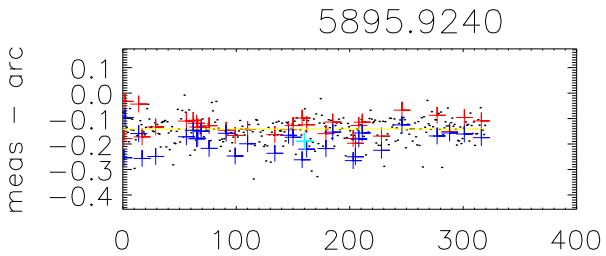

4046.5600
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

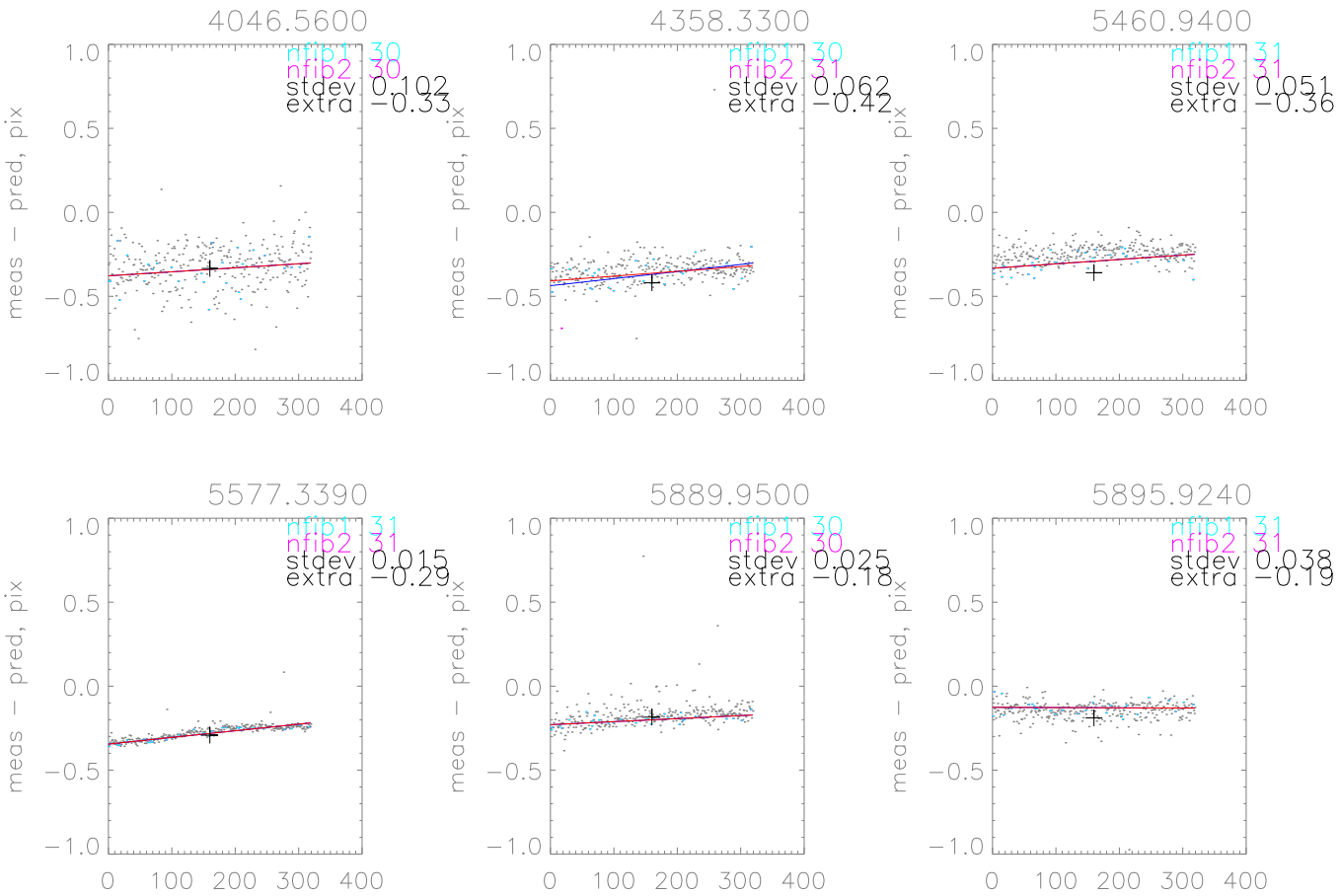

4358.3300
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

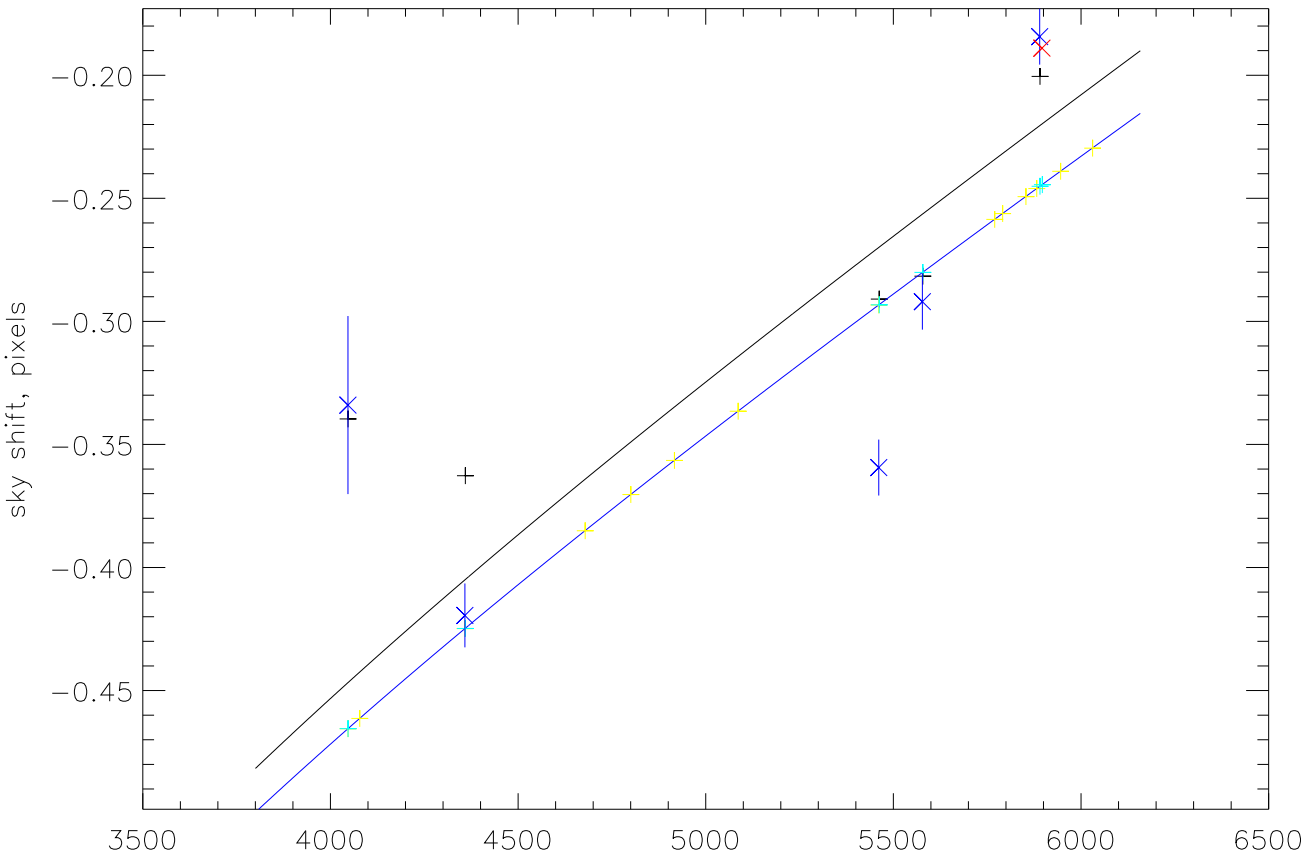

5460.9400
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

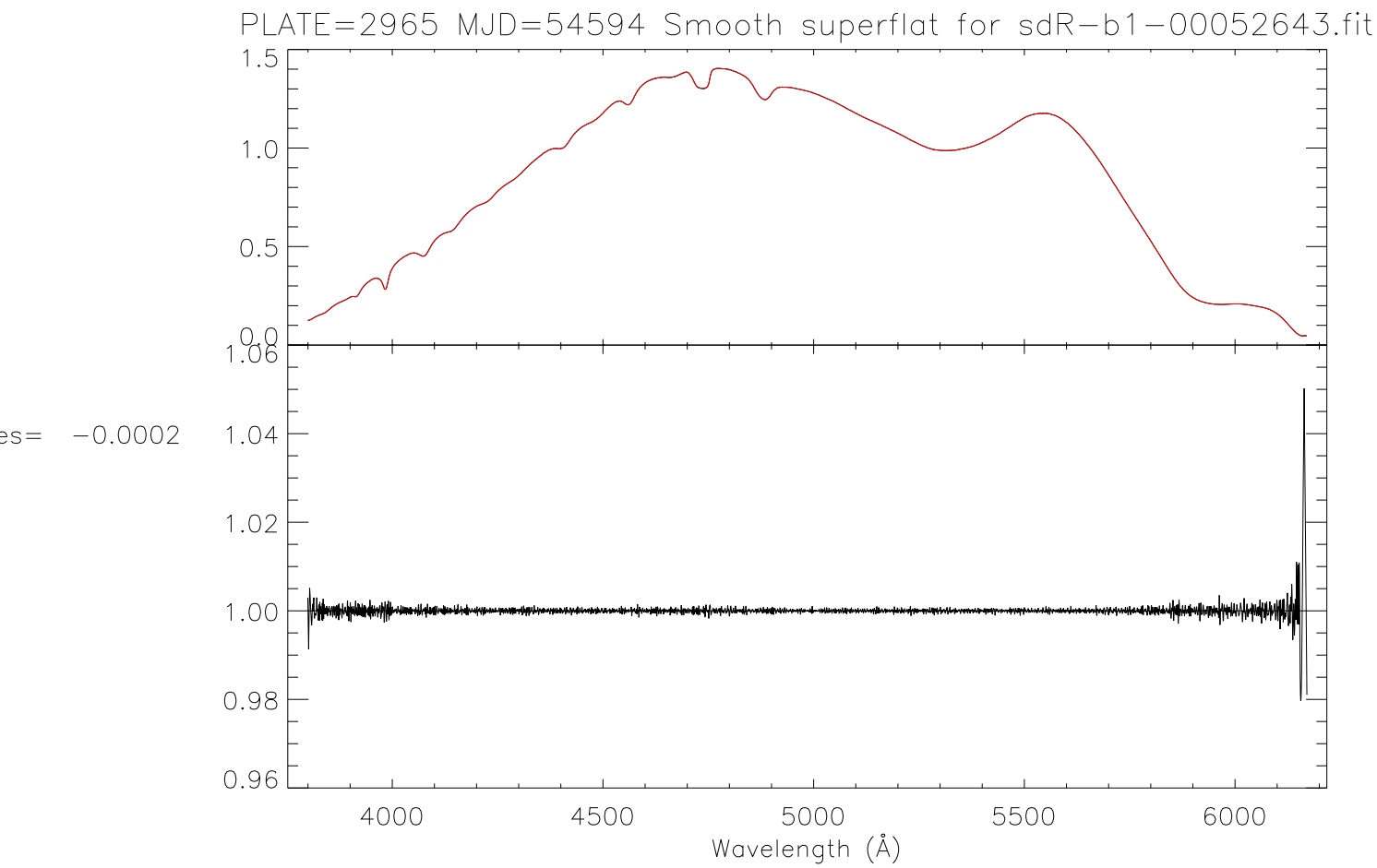

5577.3390
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400


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

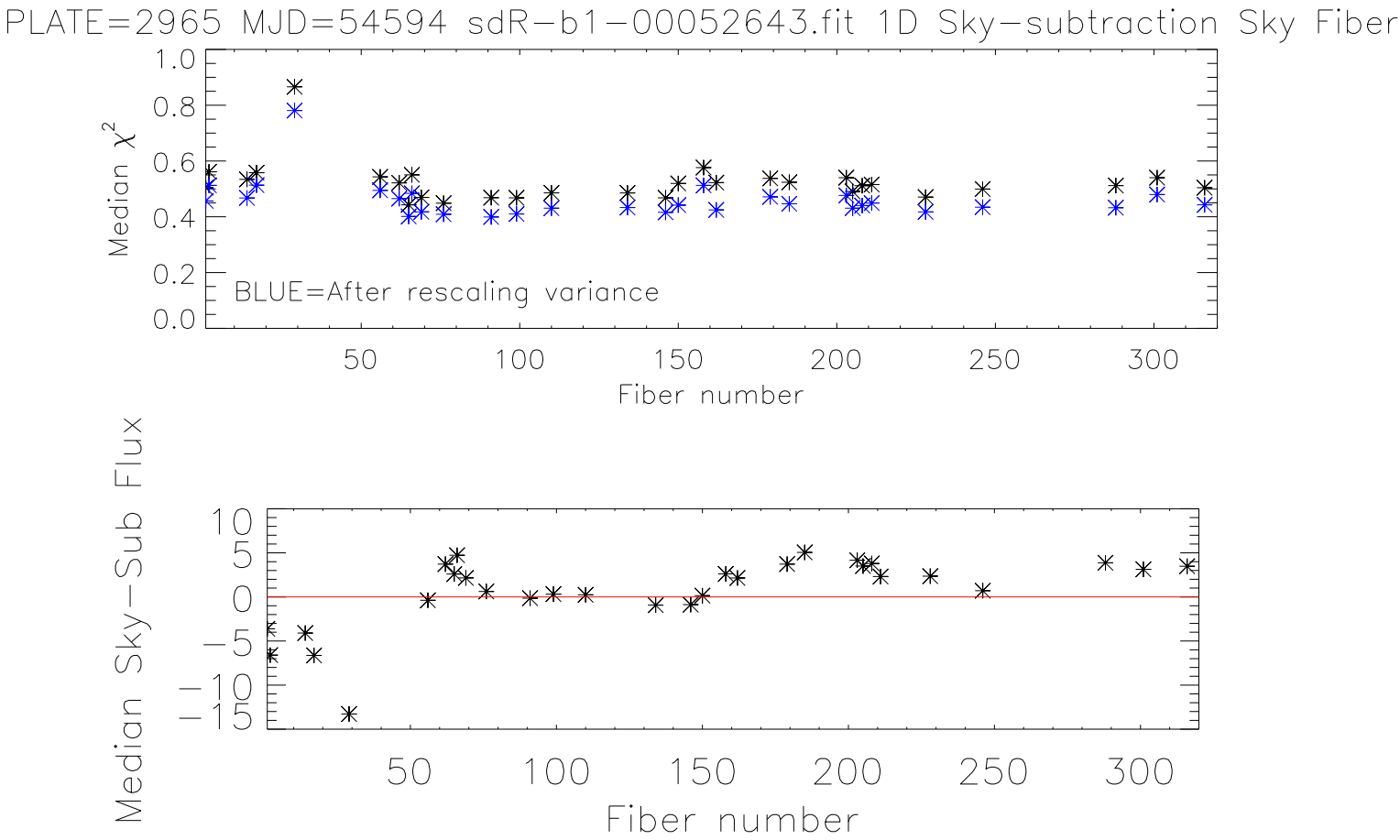

5895.9240
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

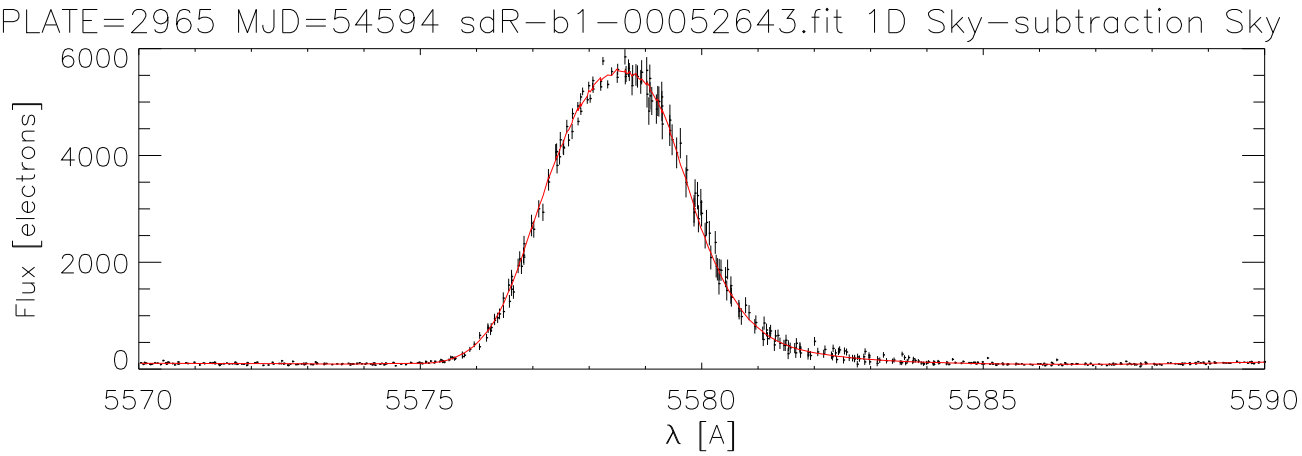

4046.5600
nfib1 30
nfib2 30
stdev 0.102
extra −0.33
4358.3300
nfib1 30
nfib2 31
stdev 0.062
extra −0.42
5460.9400
nfib1 31
nfib2 31
stdev 0.051
extra −0.36
5577.3390
nfib1 31
nfib2 31
stdev 0.015
extra −0.29
5889.9500
nfib1 30
nfib2 30
stdev 0.025
extra −0.18
5895.9240
nfib1 31
nfib2 31
stdev 0.038
extra −0.19
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

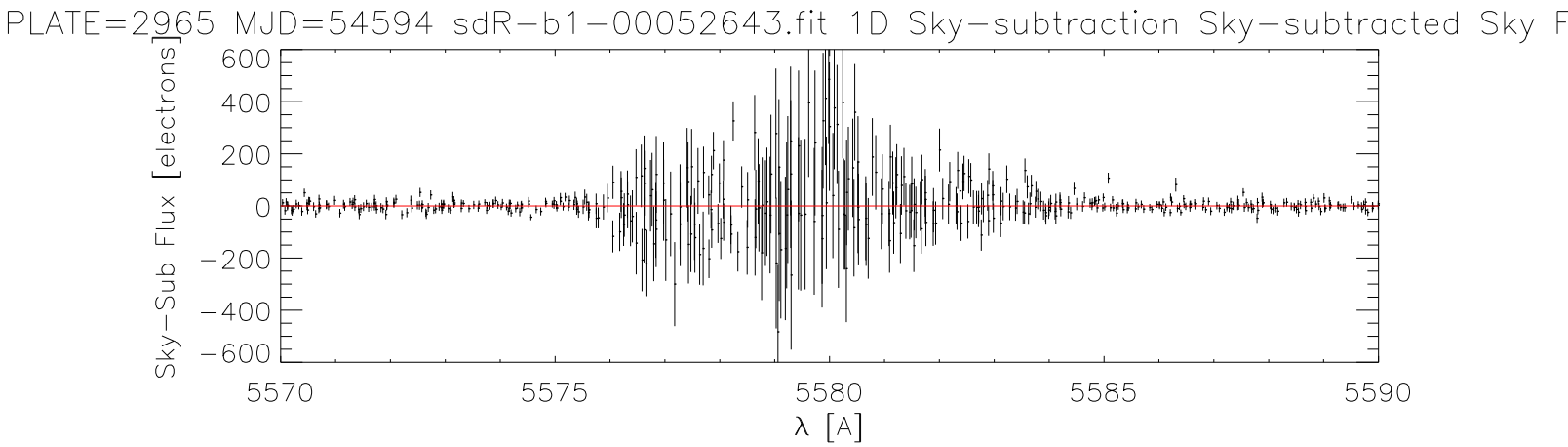

sky shift, pixels
−0.20
−0.25
−0.30
−0.35
−0.40
−0.45
3500
4000
4500
5000
5500
6000
6500

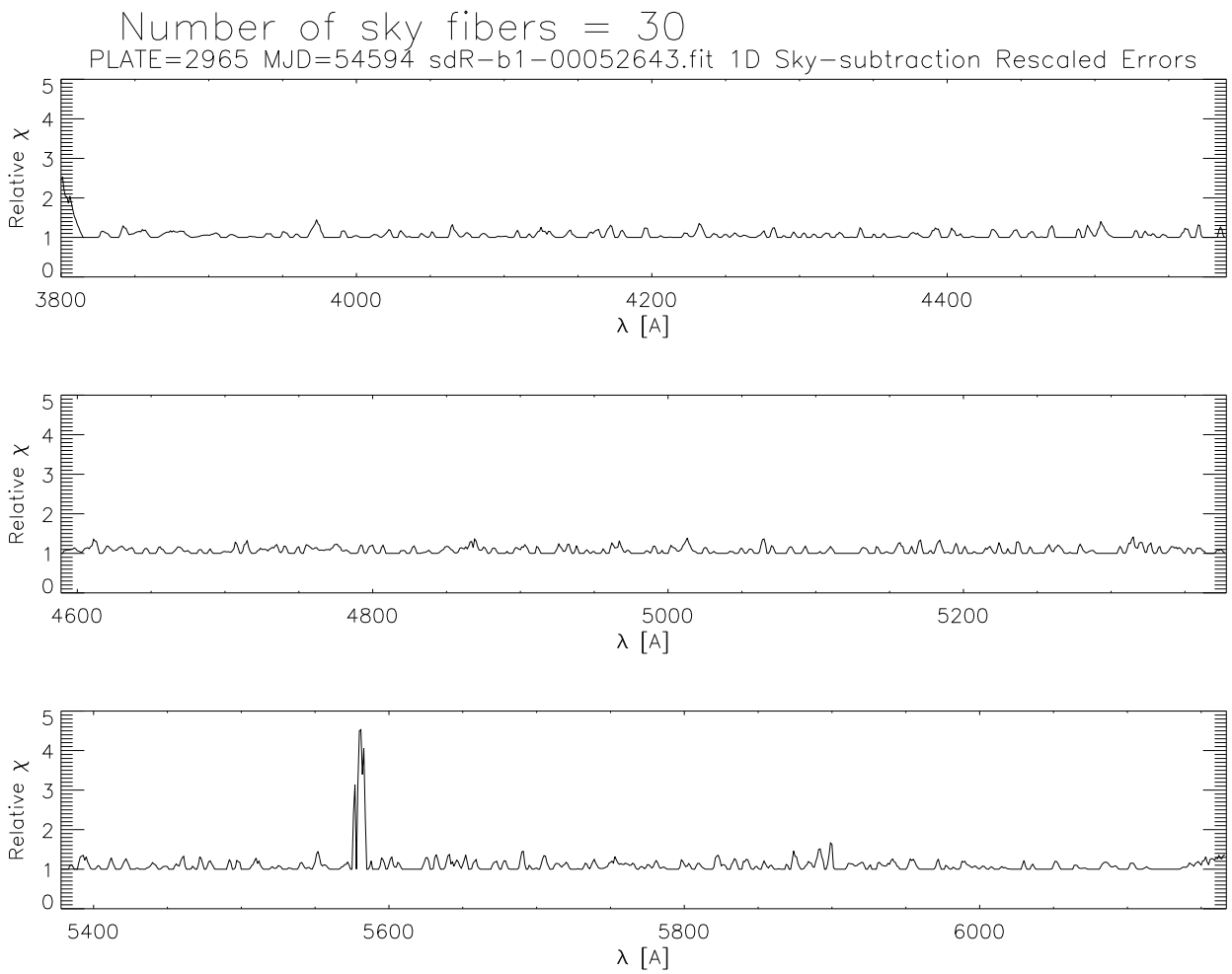

PLATE=2965 MJD=54594 Smooth superflat for sdR-b1-00052643.fit
1.5
1.0
0.5
0.0
1.06
1.04
1.02
1.00
0.98
0.96
4000
4500
5000
5500
6000
Wavelength (Å)

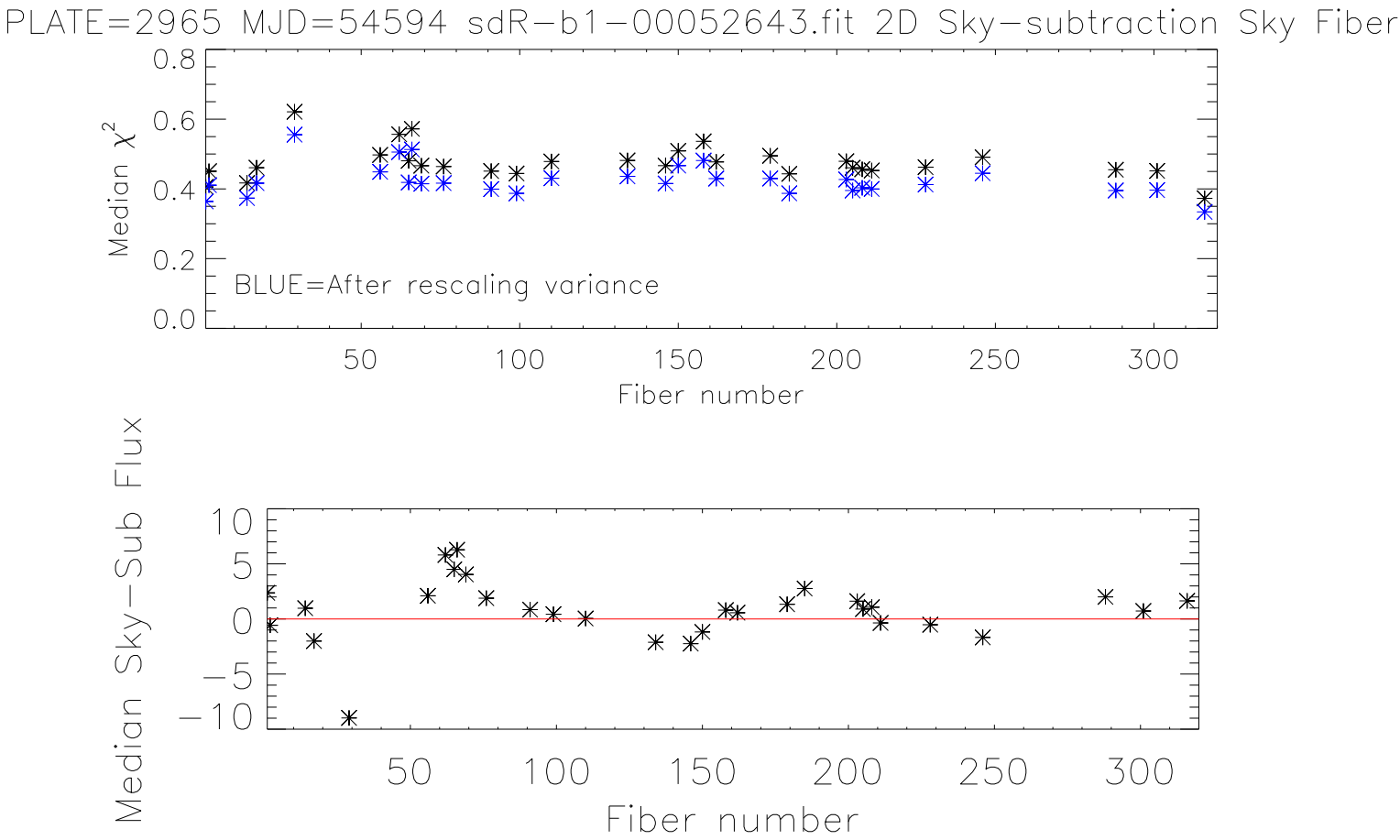
es= −0.0002

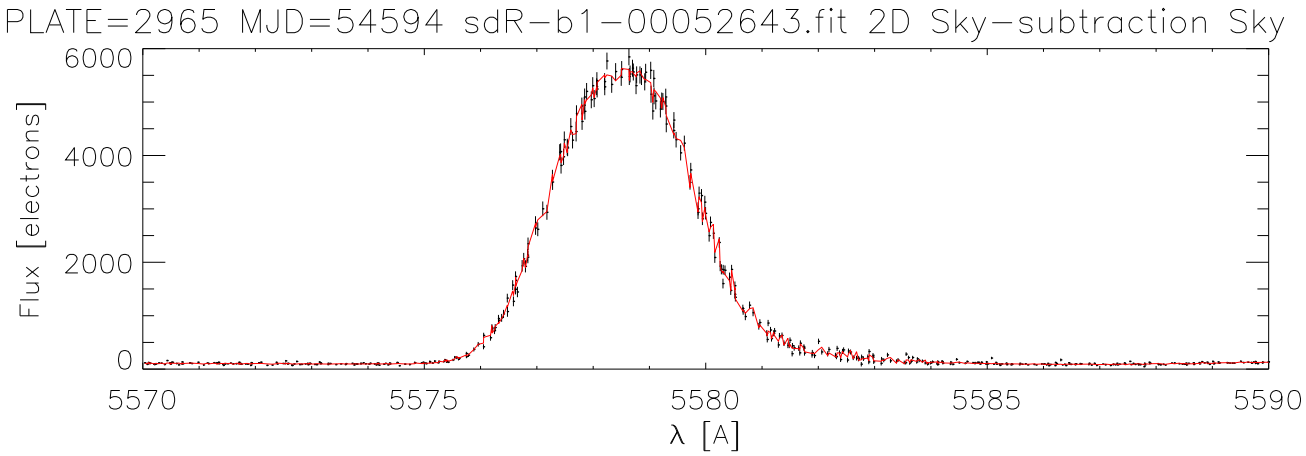

PLATE=2965 MJD=54594 sdR-b1-00052643.fit 1D Sky-subtraction Sky Fiber
Median χ^2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

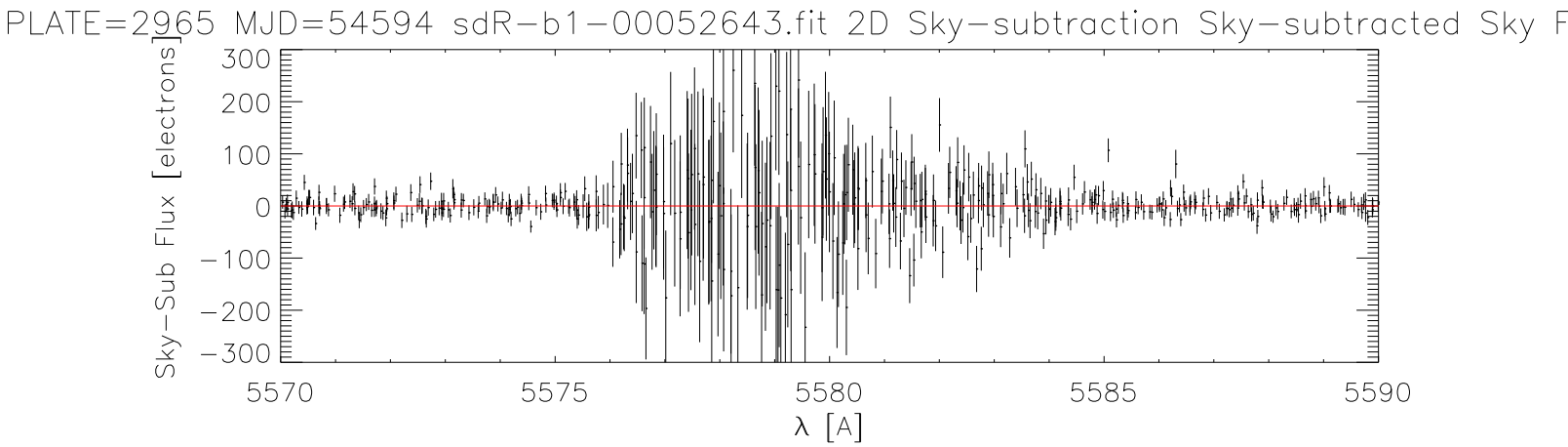

PLATE=2965 MJD=54594 sdR-b1-00052643.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

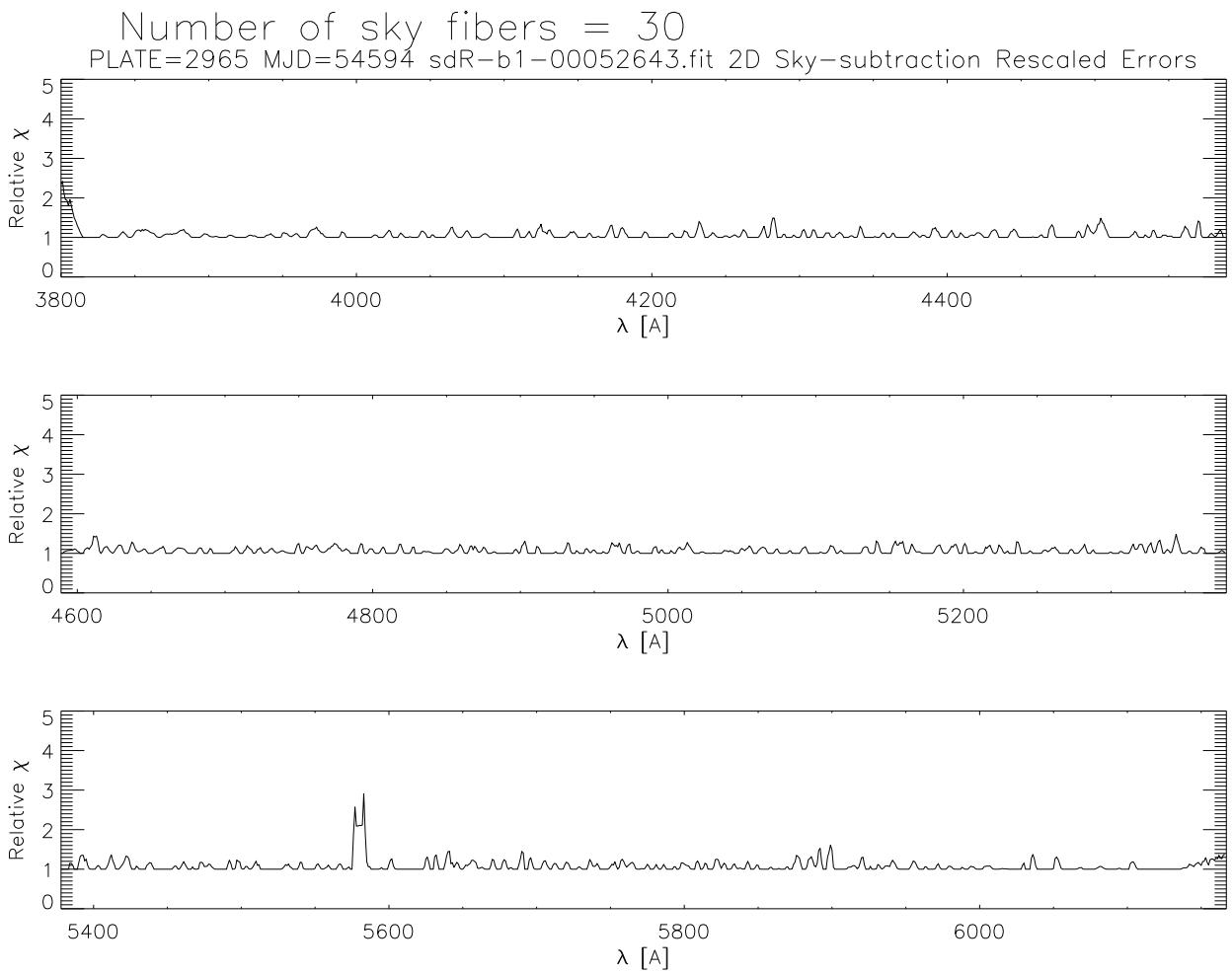

PLATE=2965 MJD=54594 sdR-b1-00052643.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

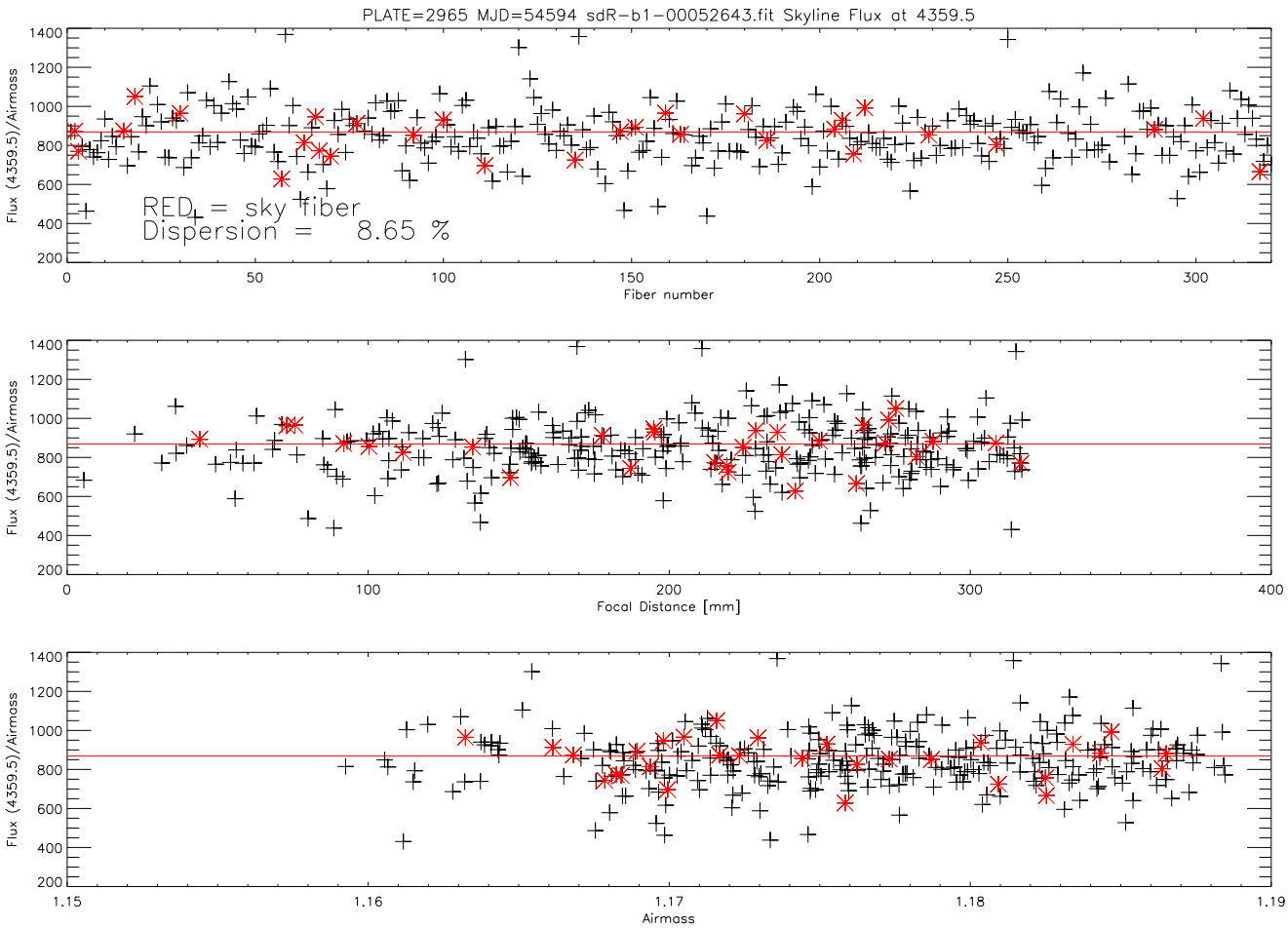

Number of sky fibers = 30
PLATE=2965 MJD=54594 sdR-b1-00052643.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

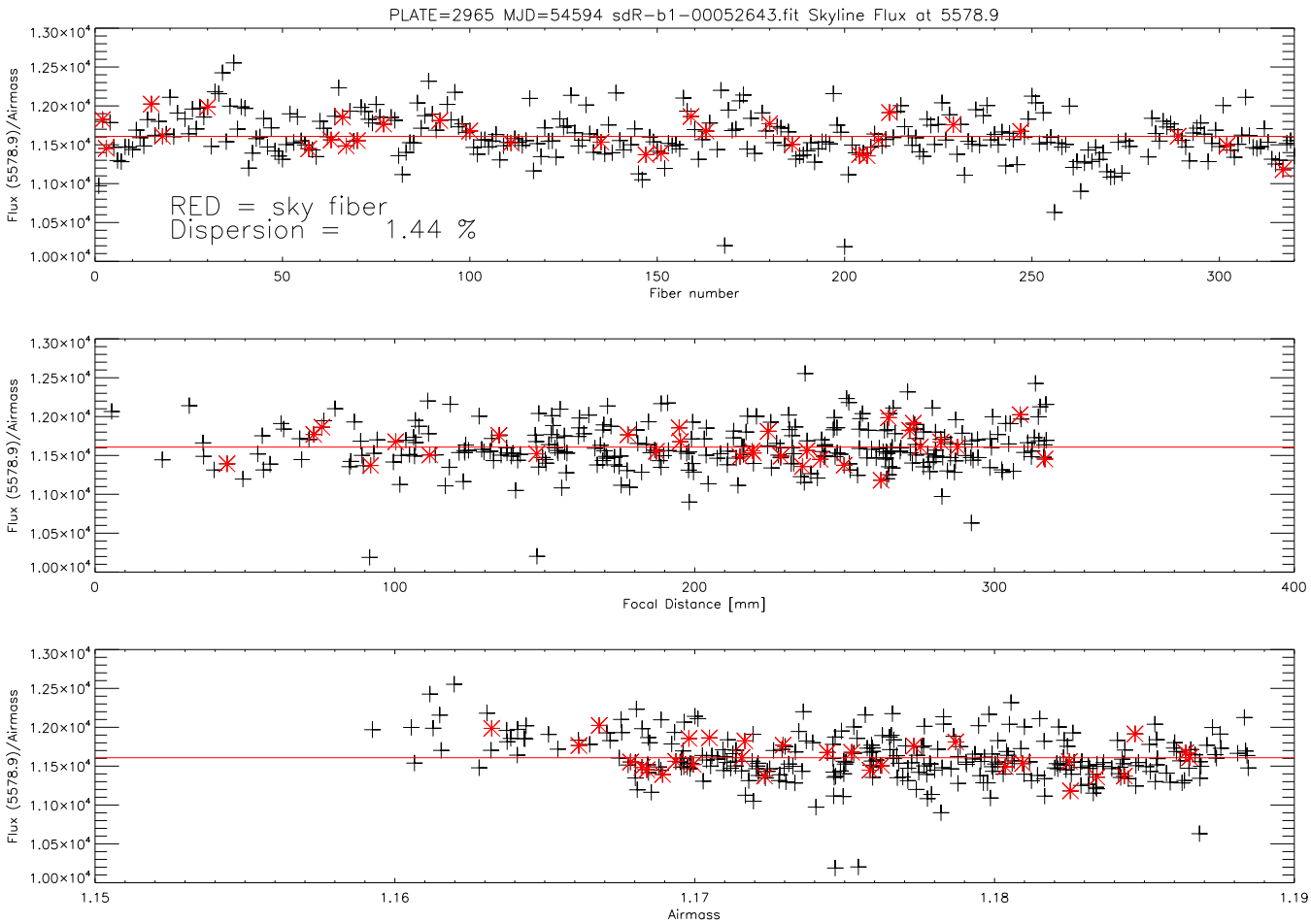

PLATE=2965 MJD=54594 sdR-b1-00052643.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

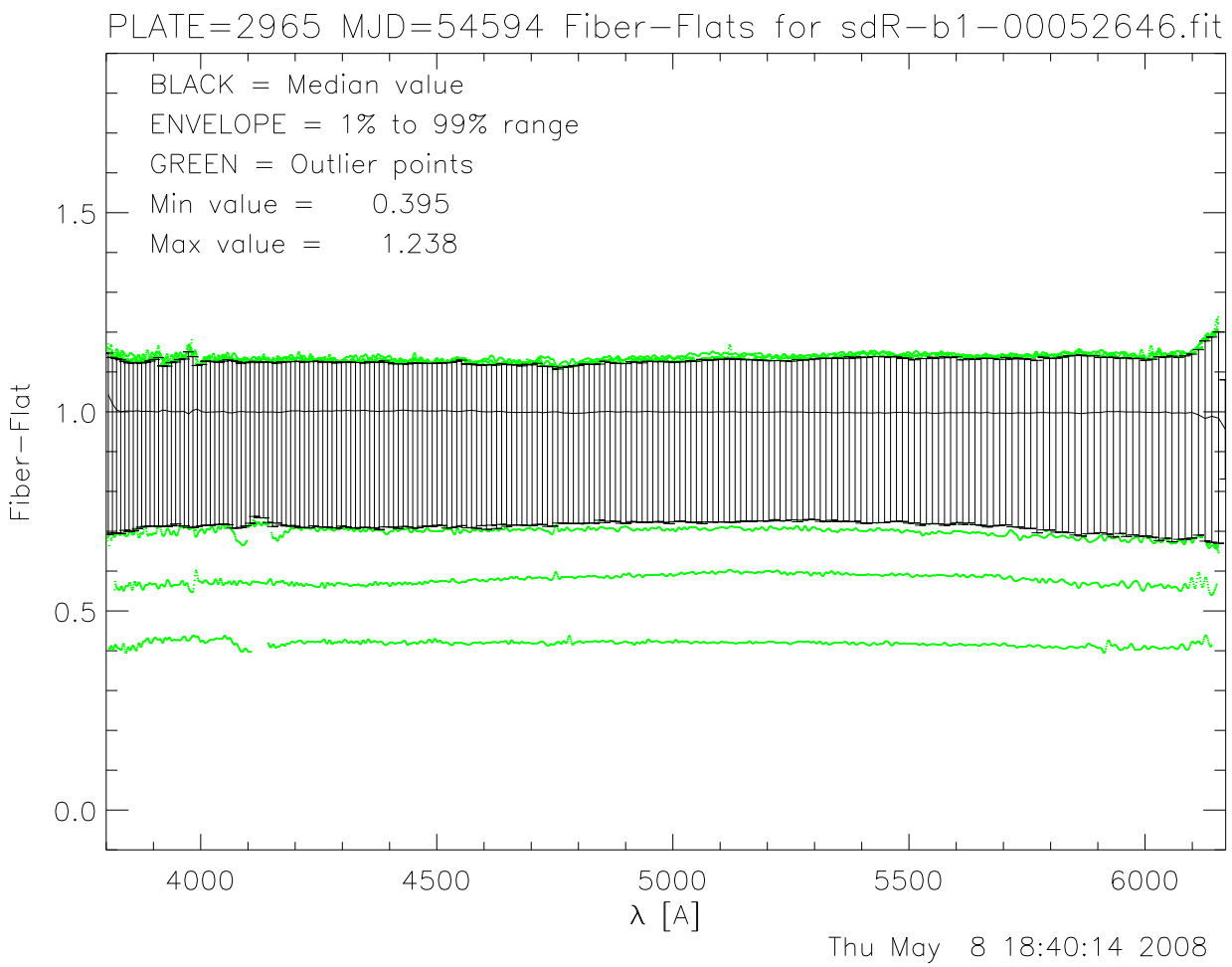

PLATE=2965 MJD=54594 sdR-b1-00052643.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

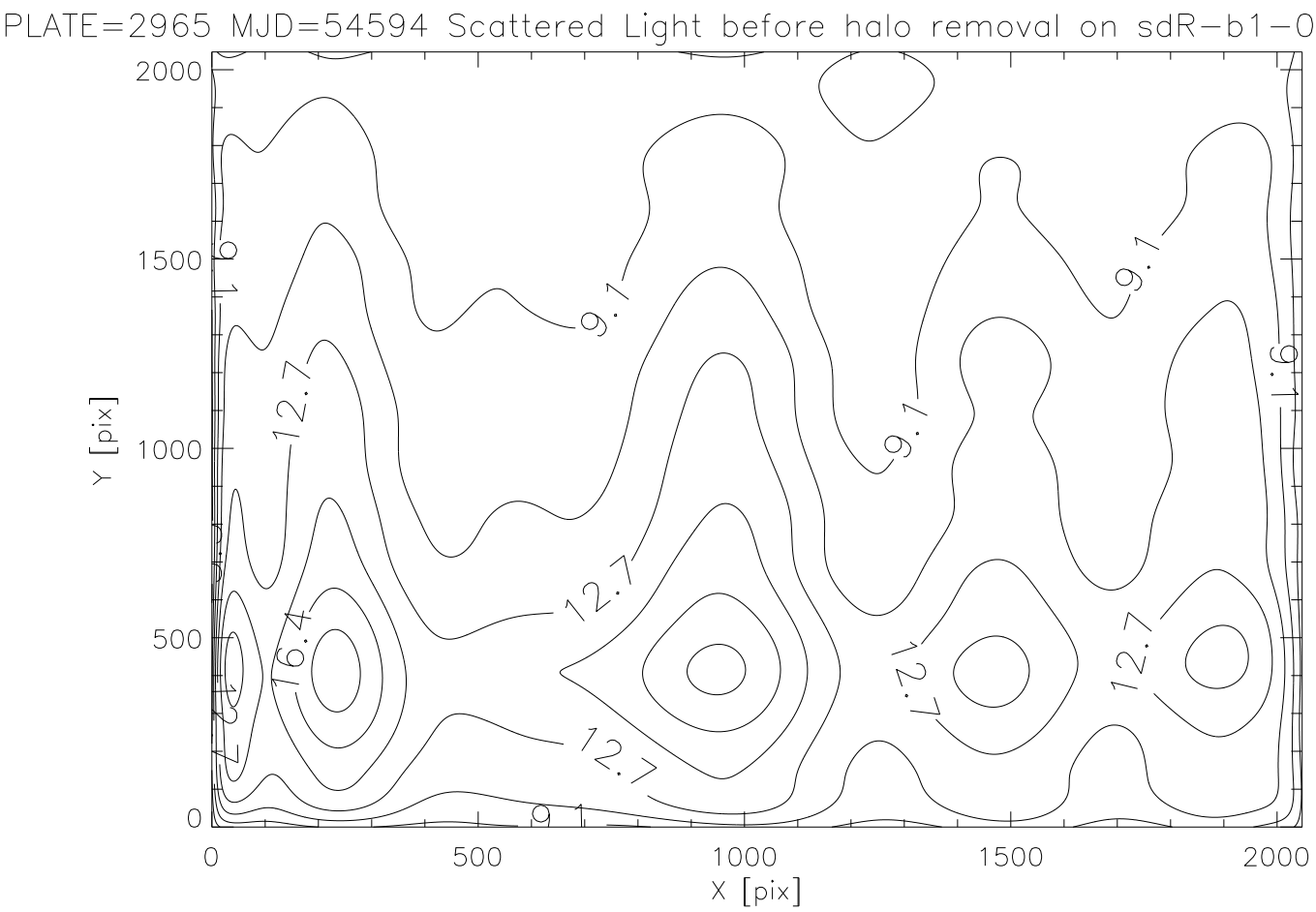

PLATE=2965 MJD=54594 sdR-b1-00052643.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

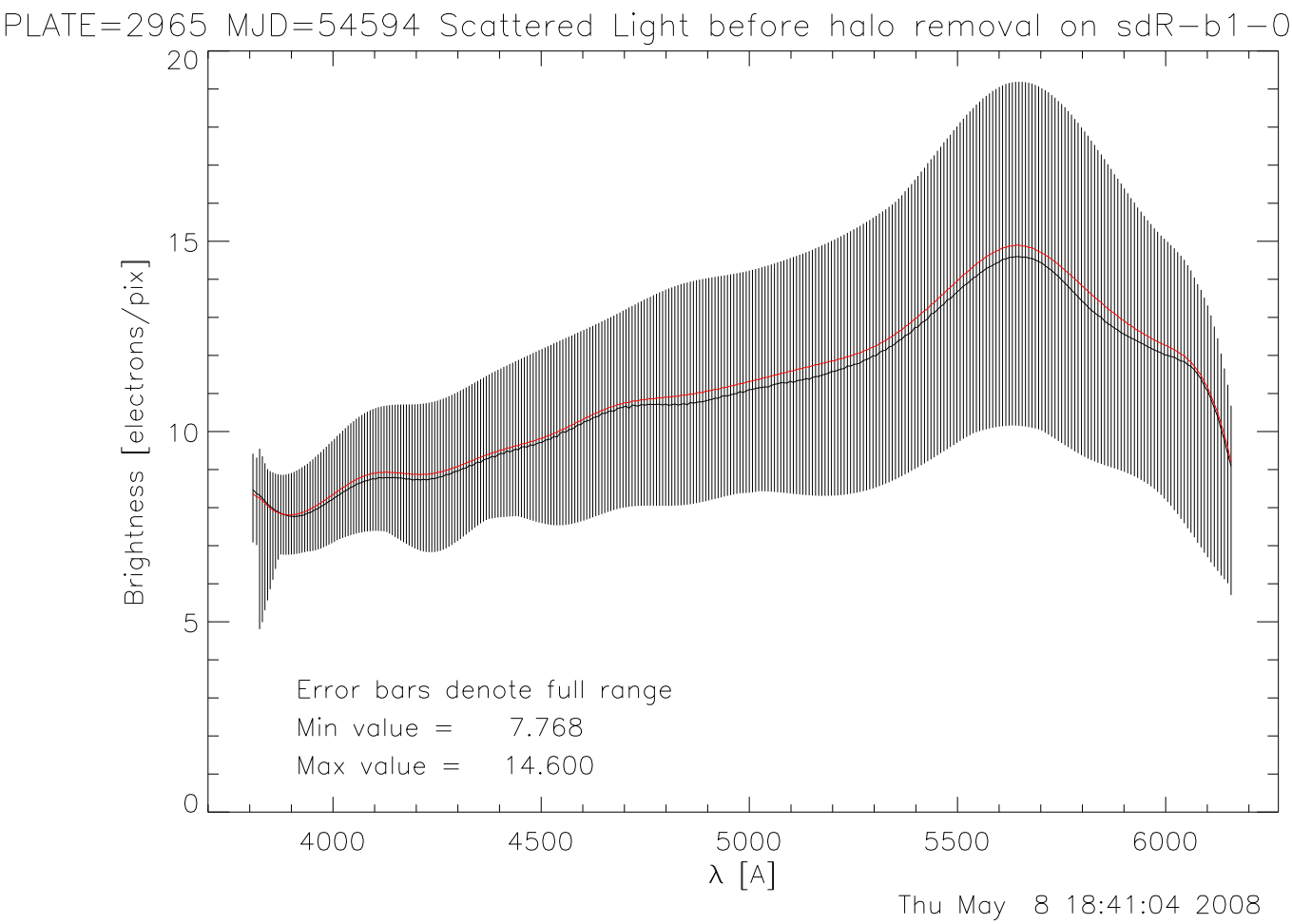

Number of sky fibers = 30
PLATE=2965 MJD=54594 sdR-b1-00052643.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

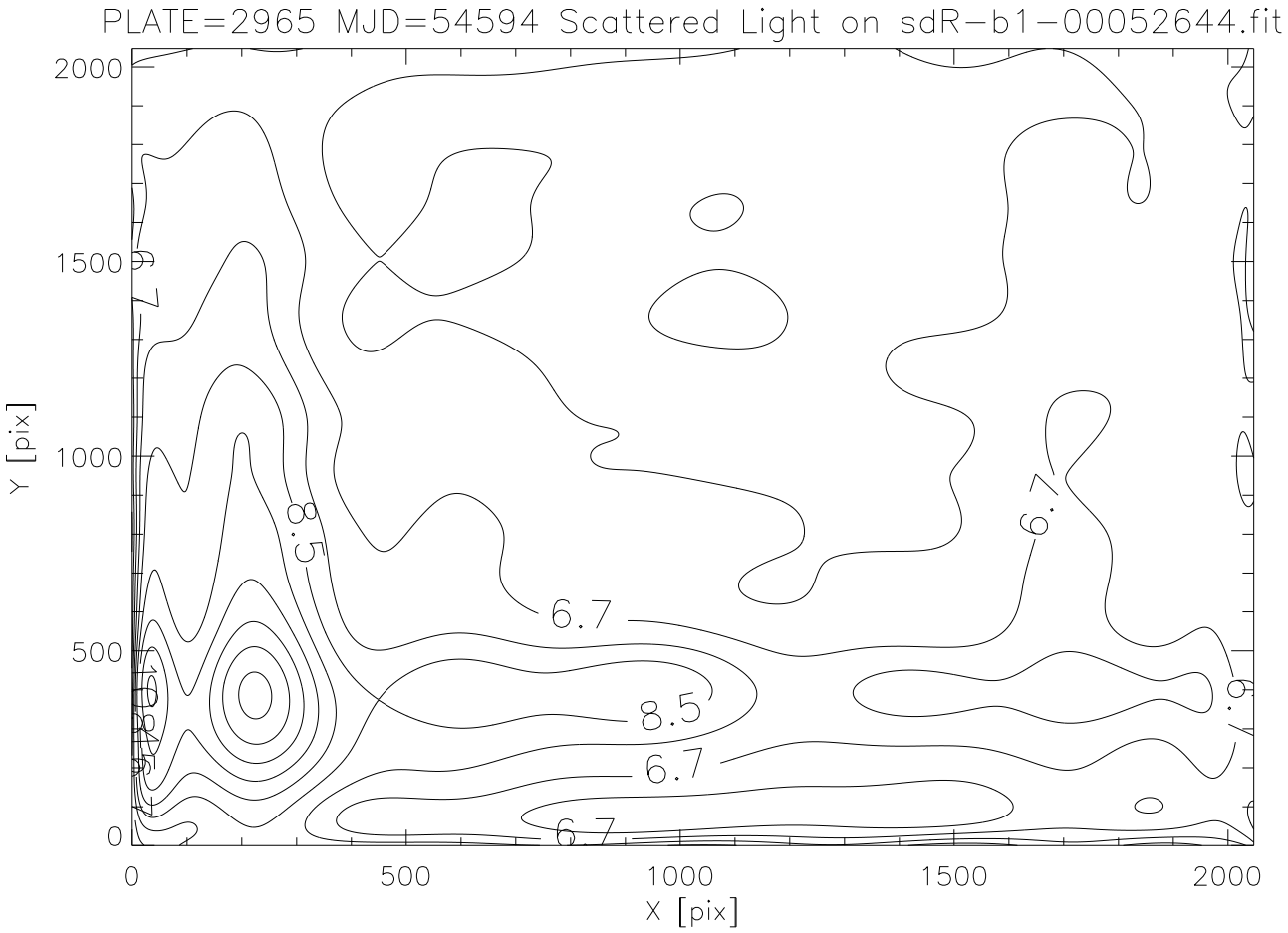

PLATE=2965 MJD=54594 sdR-b1-00052643.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 8.65 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

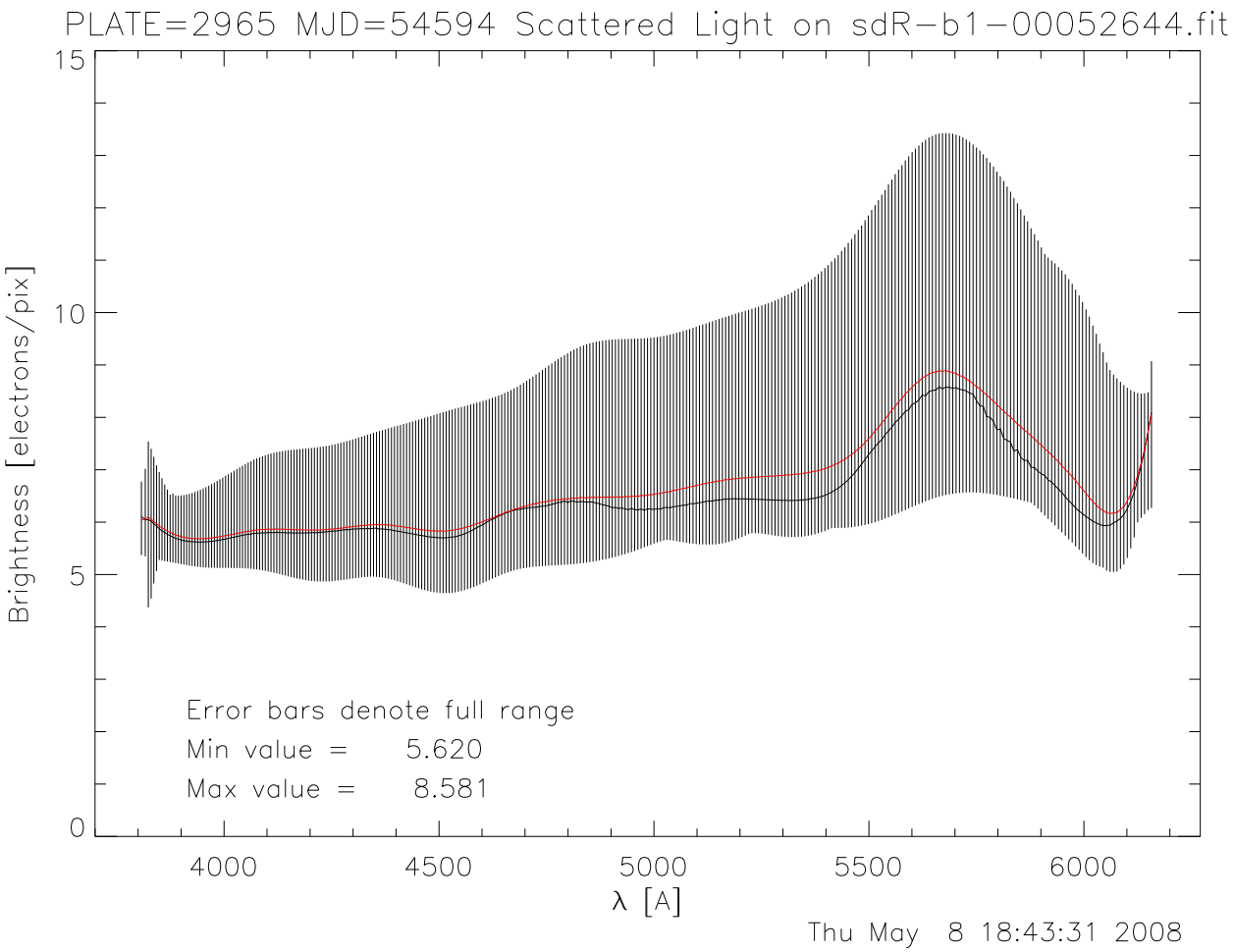

PLATE=2965 MJD=54594 sdR-b1-00052643.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.44 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

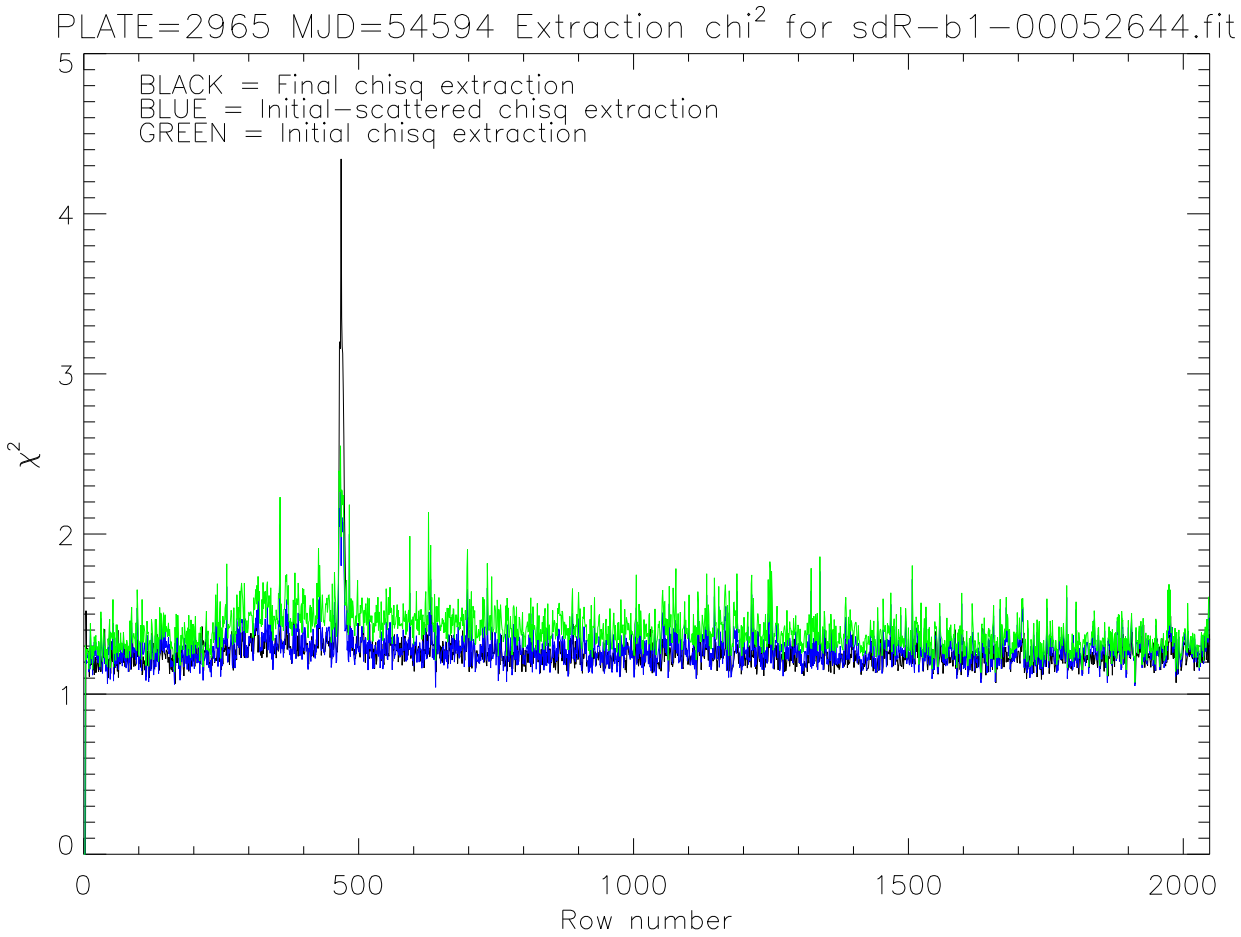

PLATE=2965 MJD=54594 Fiber-Flats for sdR-b1-00052646.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.395
Max value = 1.238
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Thu May 8 18:40:14 2008

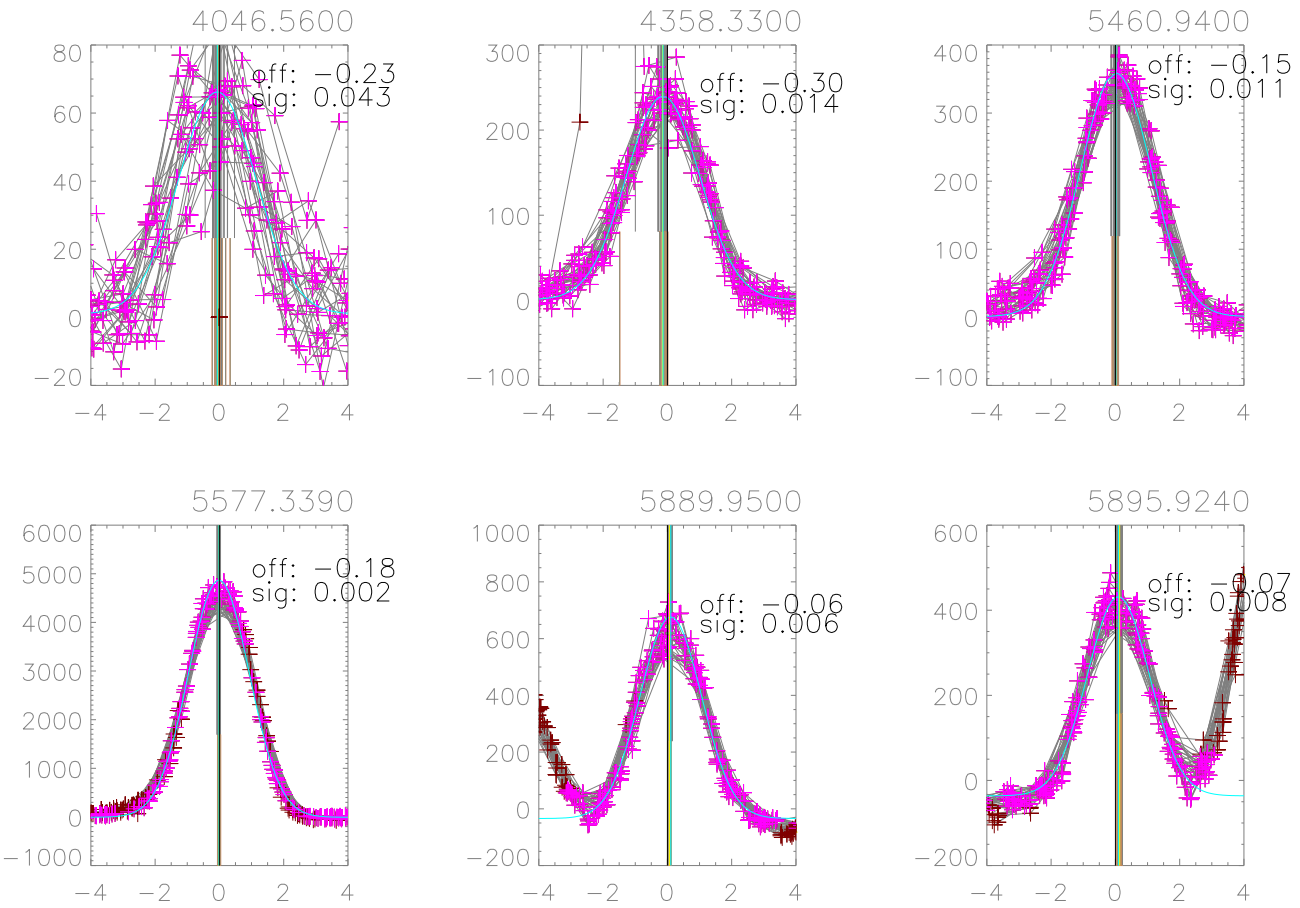

PLATE=2965 MJD=54594 Scattered Light before halo removal on sdR−b1−00052644.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
9.1
12.7
16.4

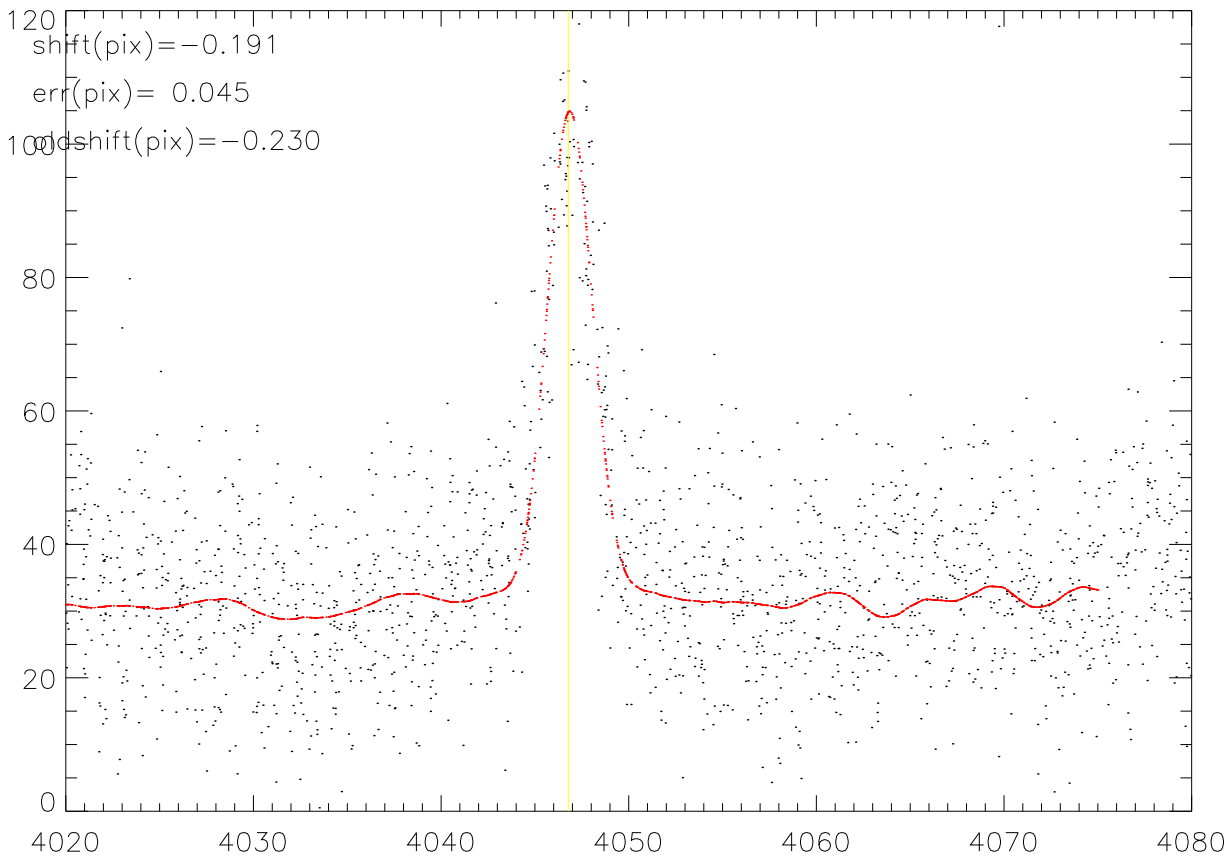

PLATE=2965 MJD=54594 Scattered Light before halo removal on sdR−b1−00052644.f
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 7.768
Max value = 14.600
4000
4500
5000
5500
6000
λ [A]
Thu May 8 18:41:04 2008

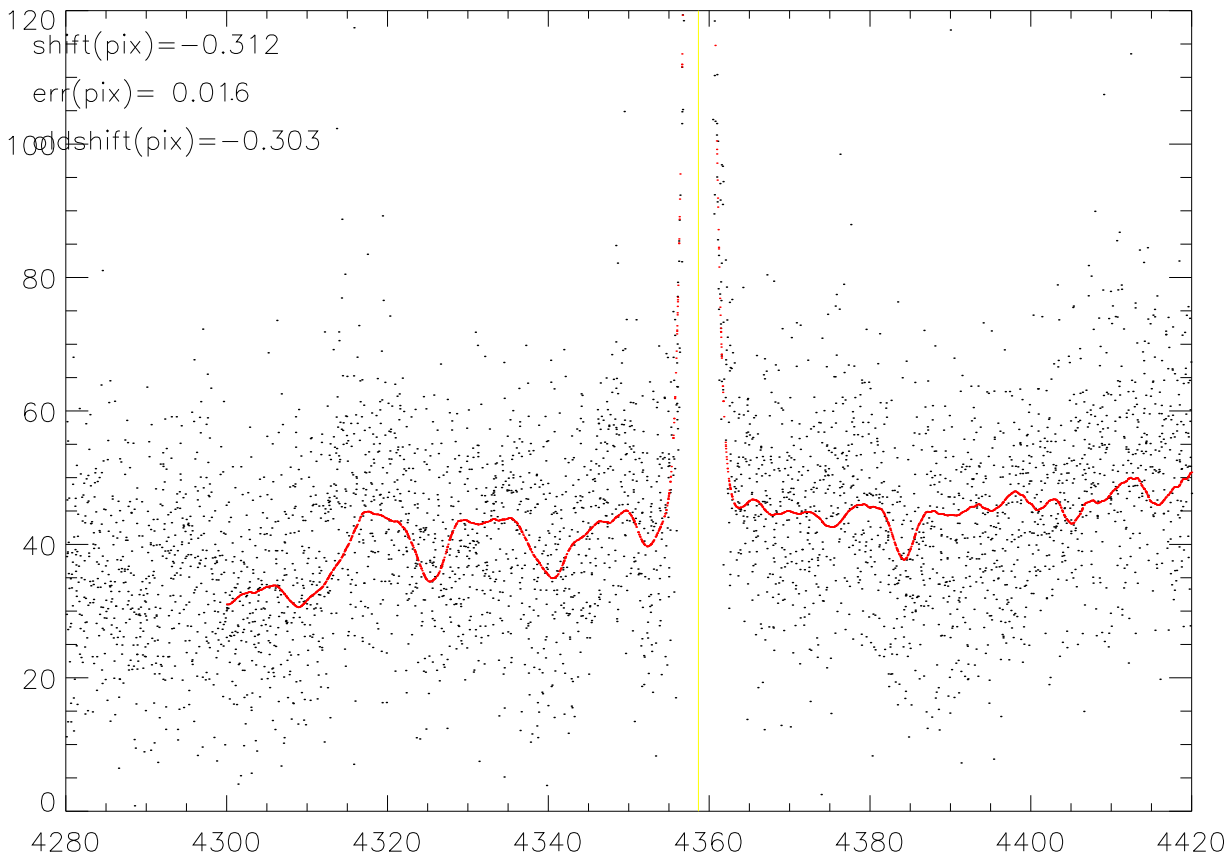

PLATE=2965 MJD=54594 Scattered Light on sdR-b1-00052644.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
6.7
8.5
6.7
8.5
6.7
6.7
6.7

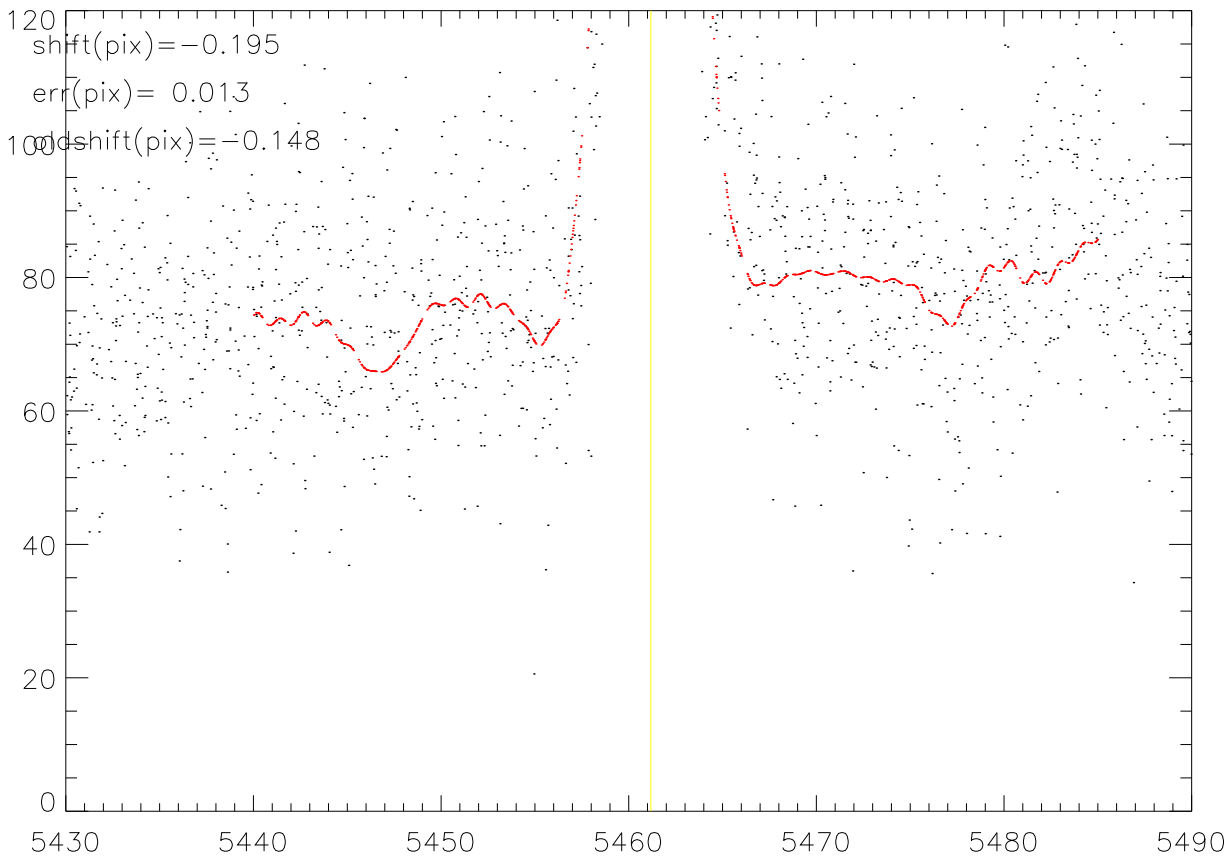

PLATE=2965 MJD=54594 Scattered Light on sdR-b1-00052644.fit
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 5.620
Max value = 8.581
Thu May 8 18:43:31 2008

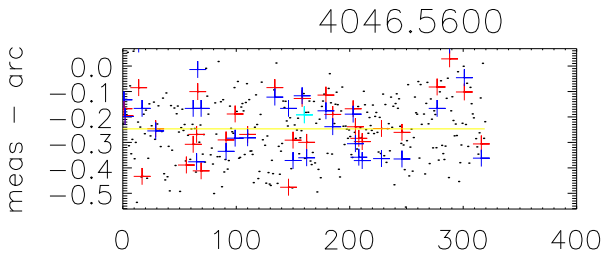

PLATE=2965 MJD=54594 Extraction chi^2 for sdR-b1-00052644.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

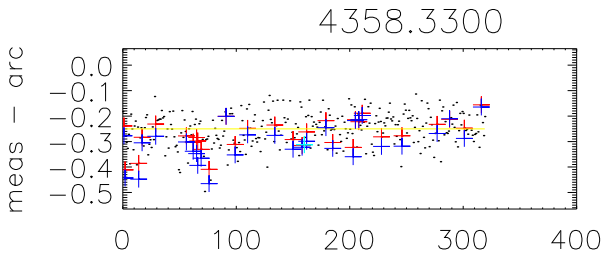

4046.5600
off: −0.23
sig: 0.043
4358.3300
off: −0.30
sig: 0.014
5460.9400
off: −0.15
sig: 0.011
5577.3390
off: −0.18
sig: 0.002
5889.9500
off: −0.06
sig: 0.006
5895.9240
off: −0.07
sig: 0.008

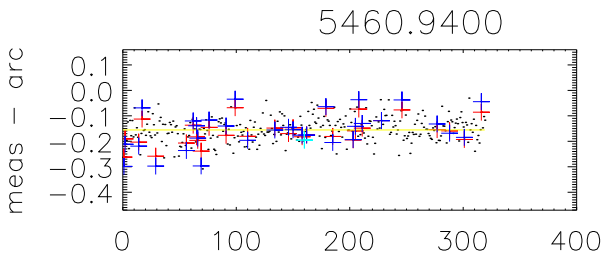

shift(pix)=−0.191
err(pix)= 0.045
oldshift(pix)=−0.230
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

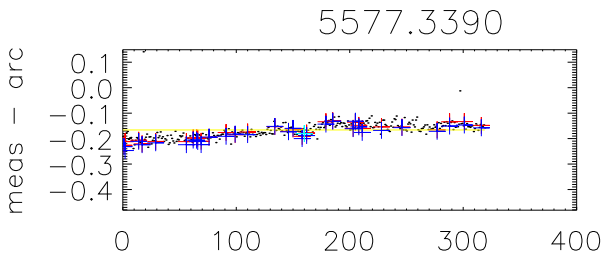

shift(pix)=−0.312
err(pix)= 0.016
oldshift(pix)=−0.303
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

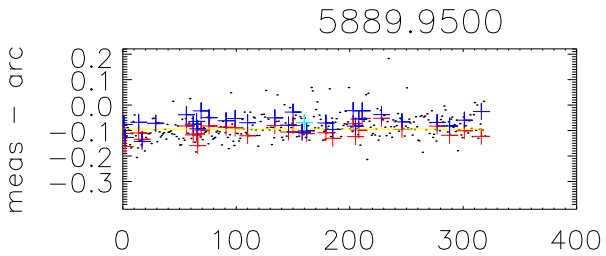

shift(pix)=−0.195
err(pix)= 0.013
oldshift(pix)=−0.148
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

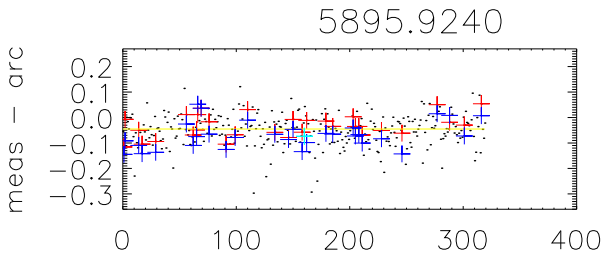

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

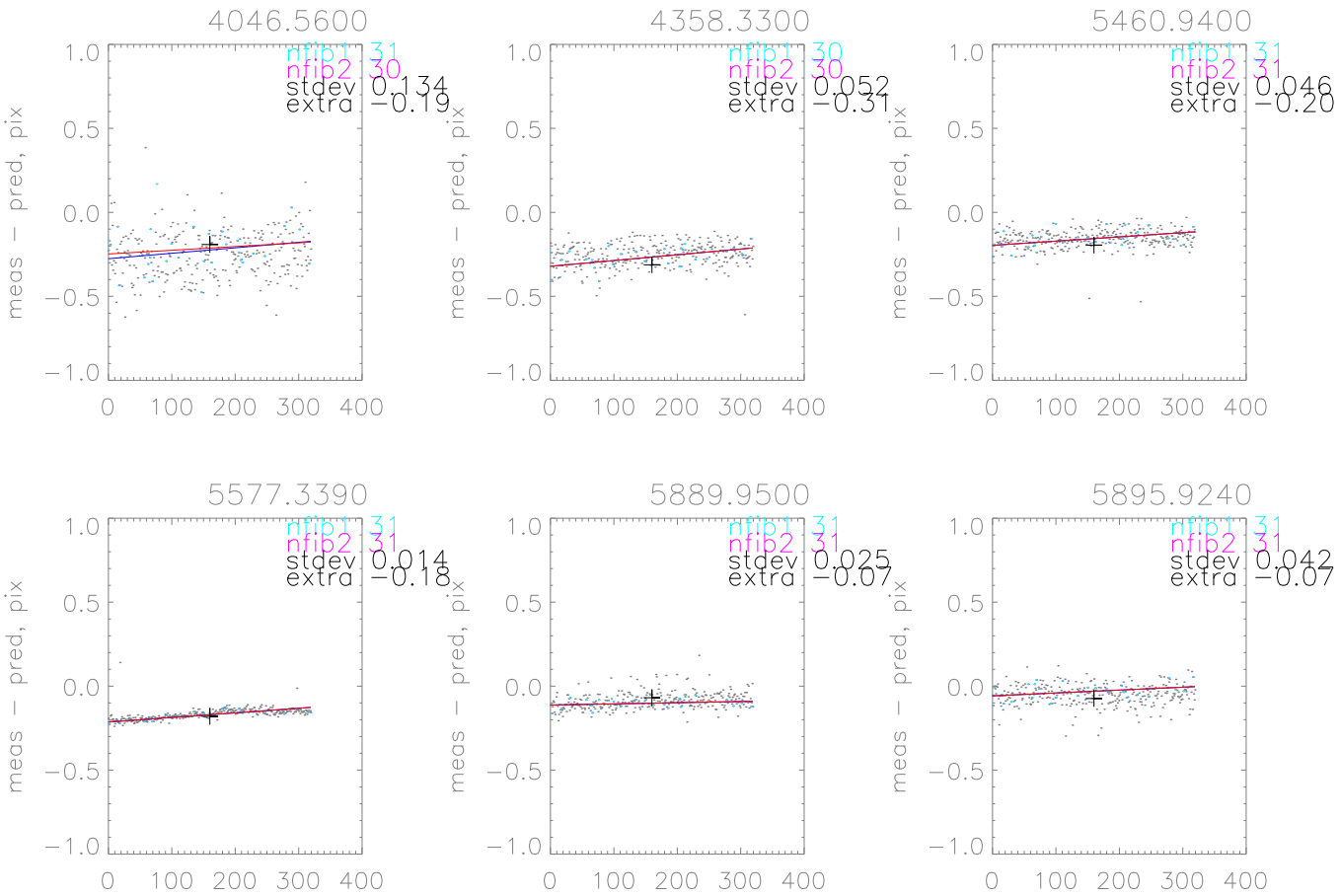

4358.3300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

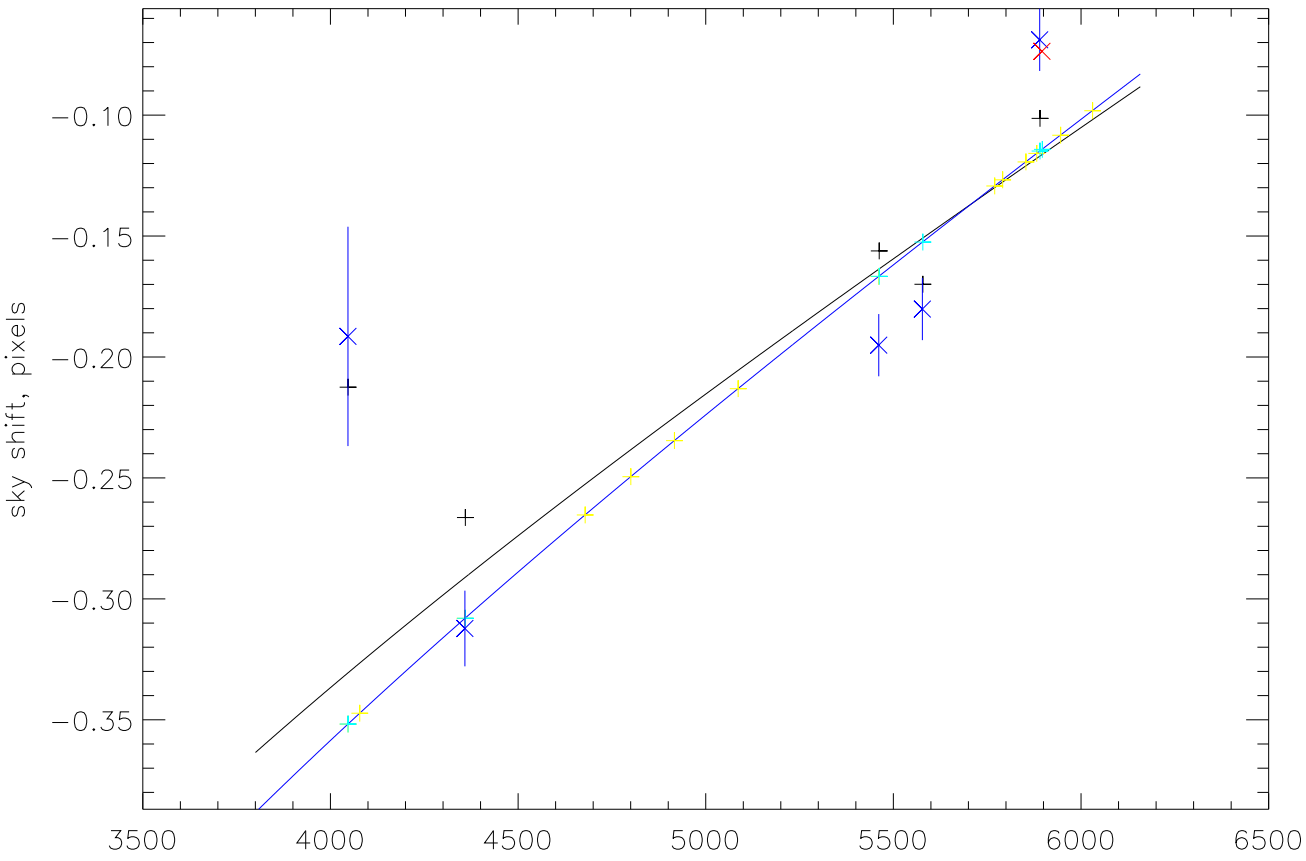

5460.9400
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

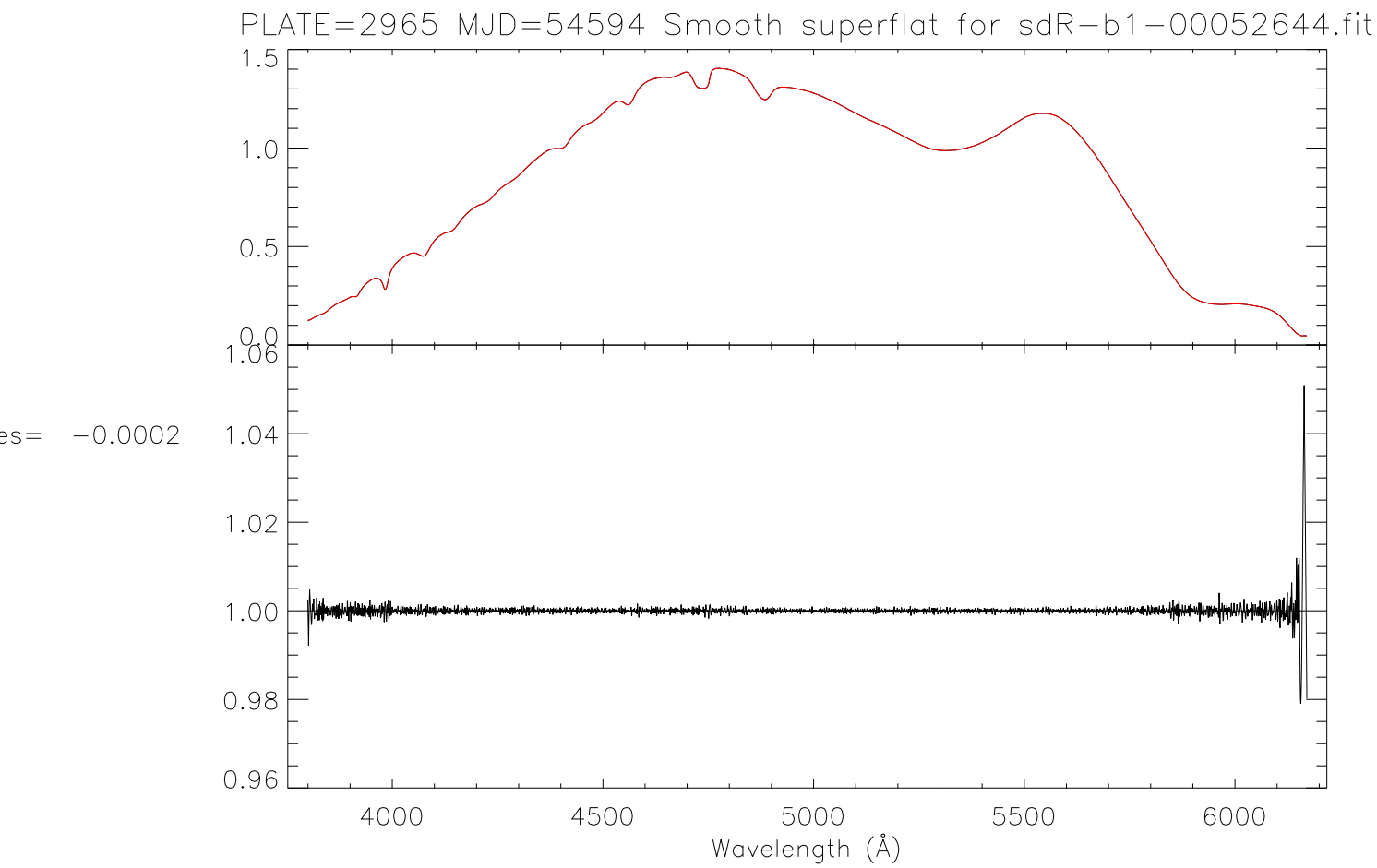

5577.3390
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


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

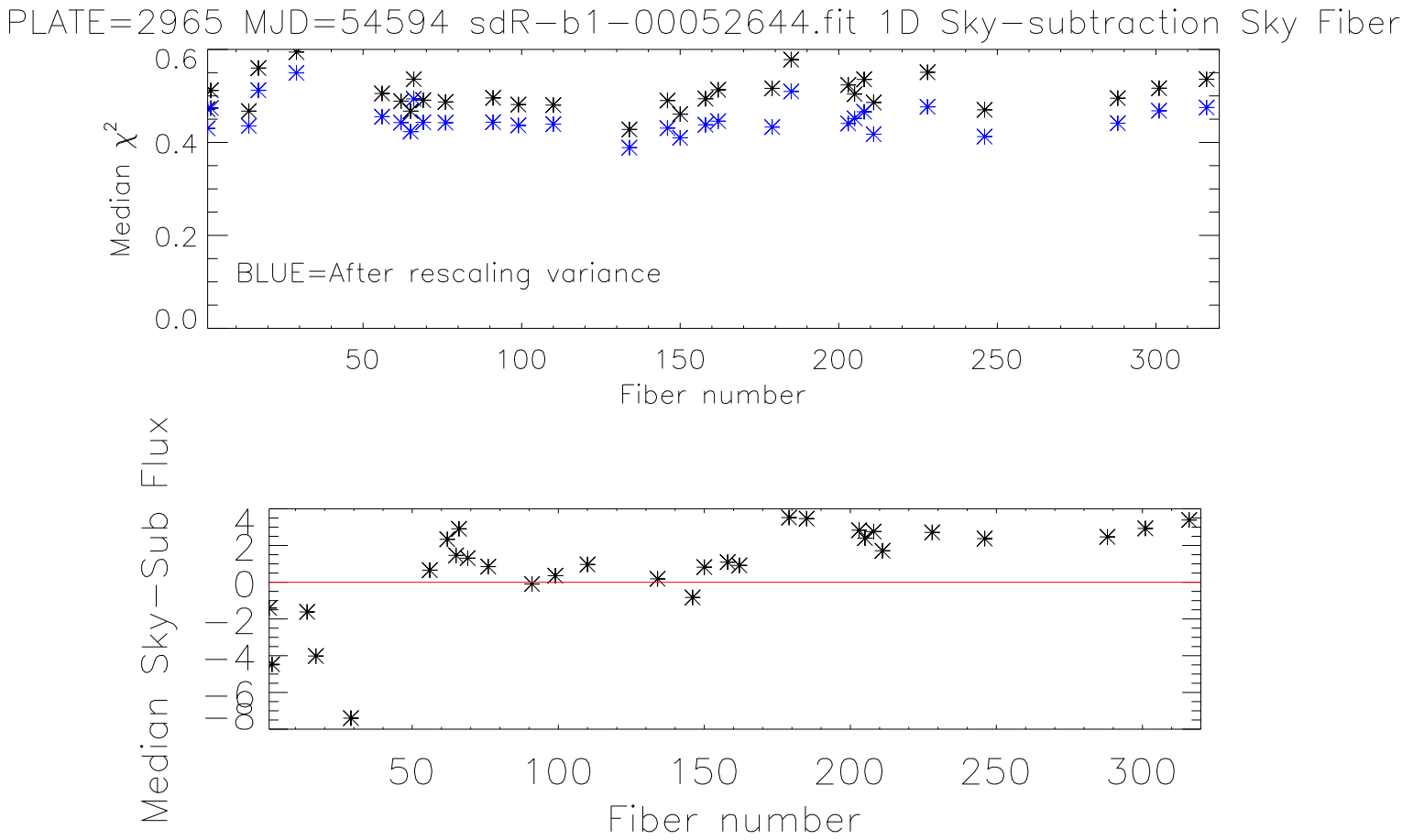

5895.9240
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

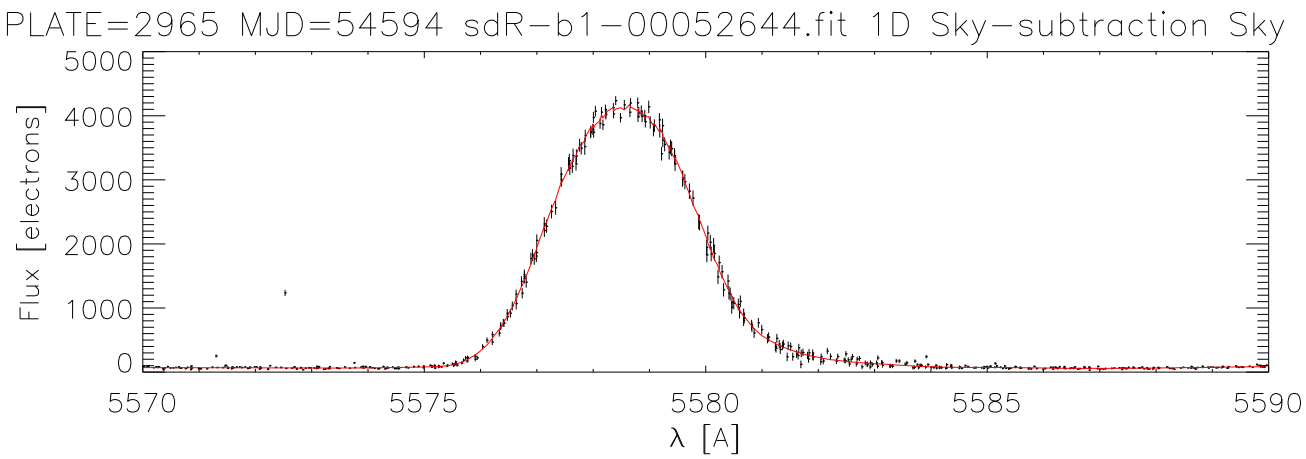

4046.5600
nfib1 31
nfib2 30
stdev 0.134
extra −0.19
4358.3300
nfib1 30
nfib2 30
stdev 0.052
extra −0.31
5460.9400
nfib1 31
nfib2 31
stdev 0.046
extra −0.20
5577.3390
nfib1 31
nfib2 31
stdev 0.014
extra −0.18
5889.9500
nfib1 31
nfib2 31
stdev 0.025
extra −0.07
5895.9240
nfib1 31
nfib2 31
stdev 0.042
extra −0.07
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

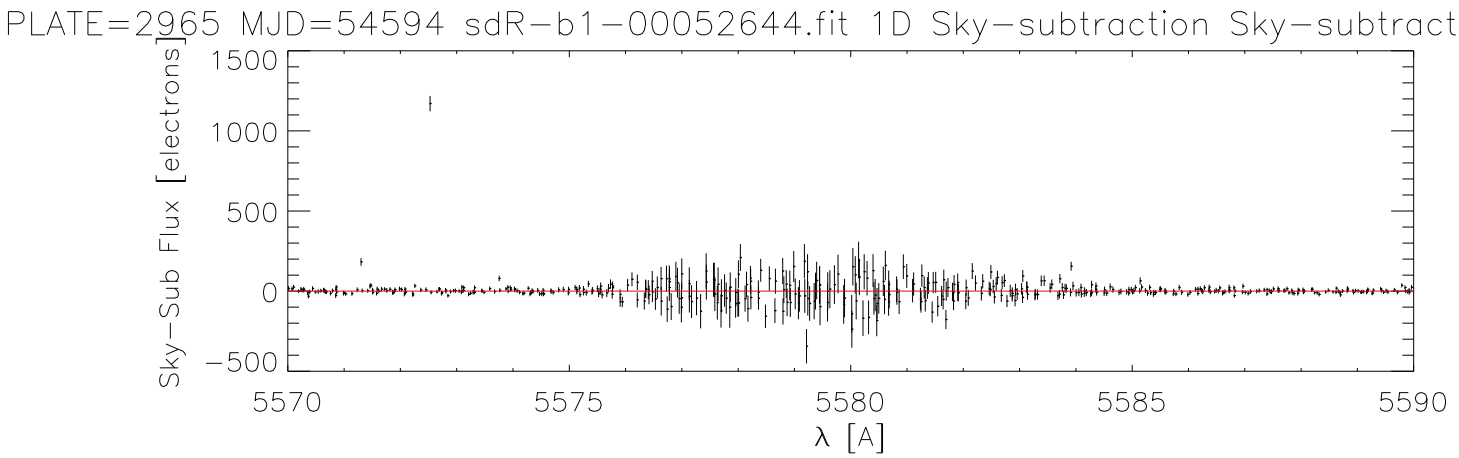

sky shift, pixels
−0.10
−0.15
−0.20
−0.25
−0.30
−0.35
3500
4000
4500
5000
5500
6000
6500

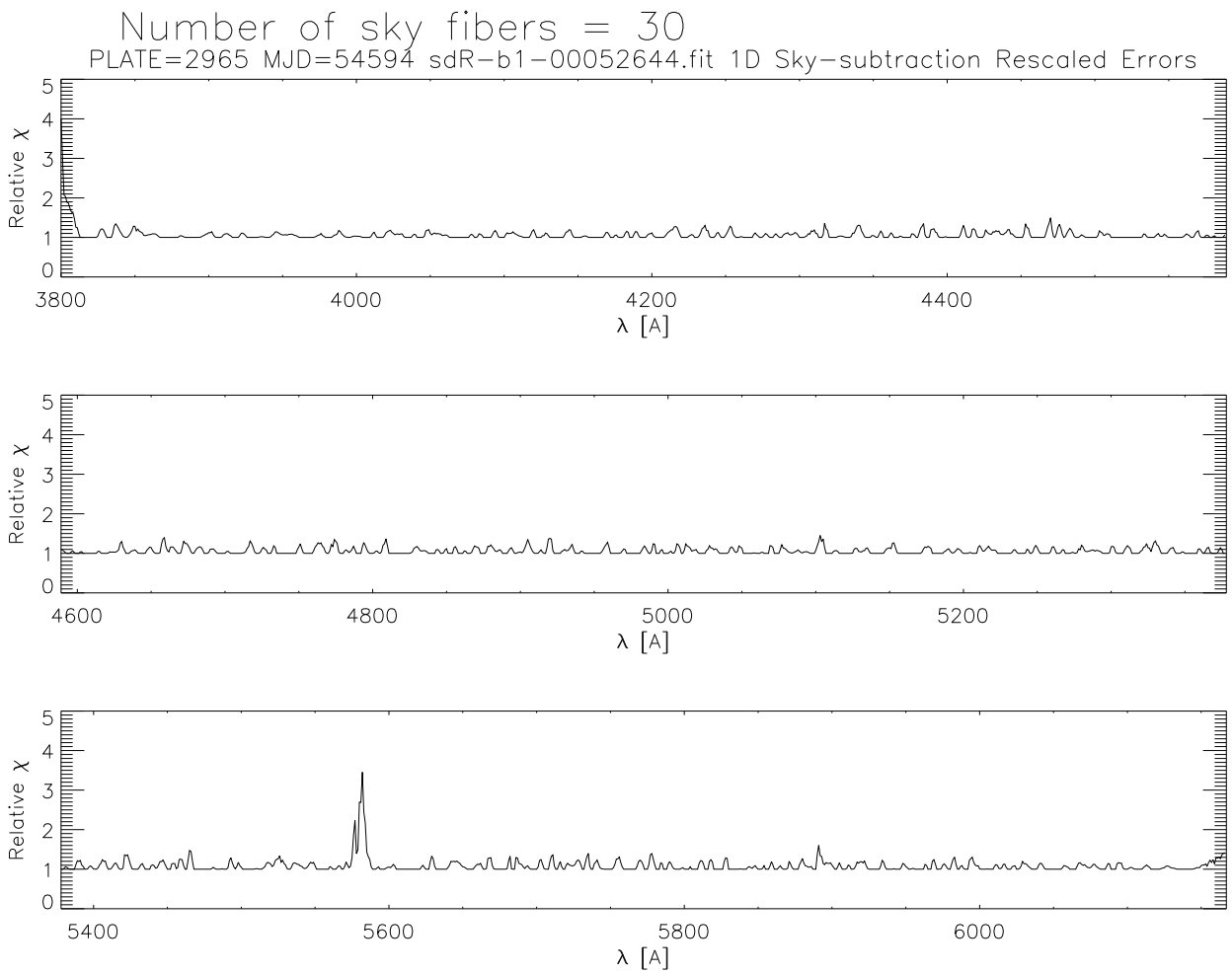

PLATE=2965 MJD=54594 Smooth superflat for sdR-b1-00052644.fit
1.5
1.0
0.5
0.0
1.06
1.04
1.02
1.00
0.98
0.96
4000
4500
5000
5500
6000
Wavelength (Å)

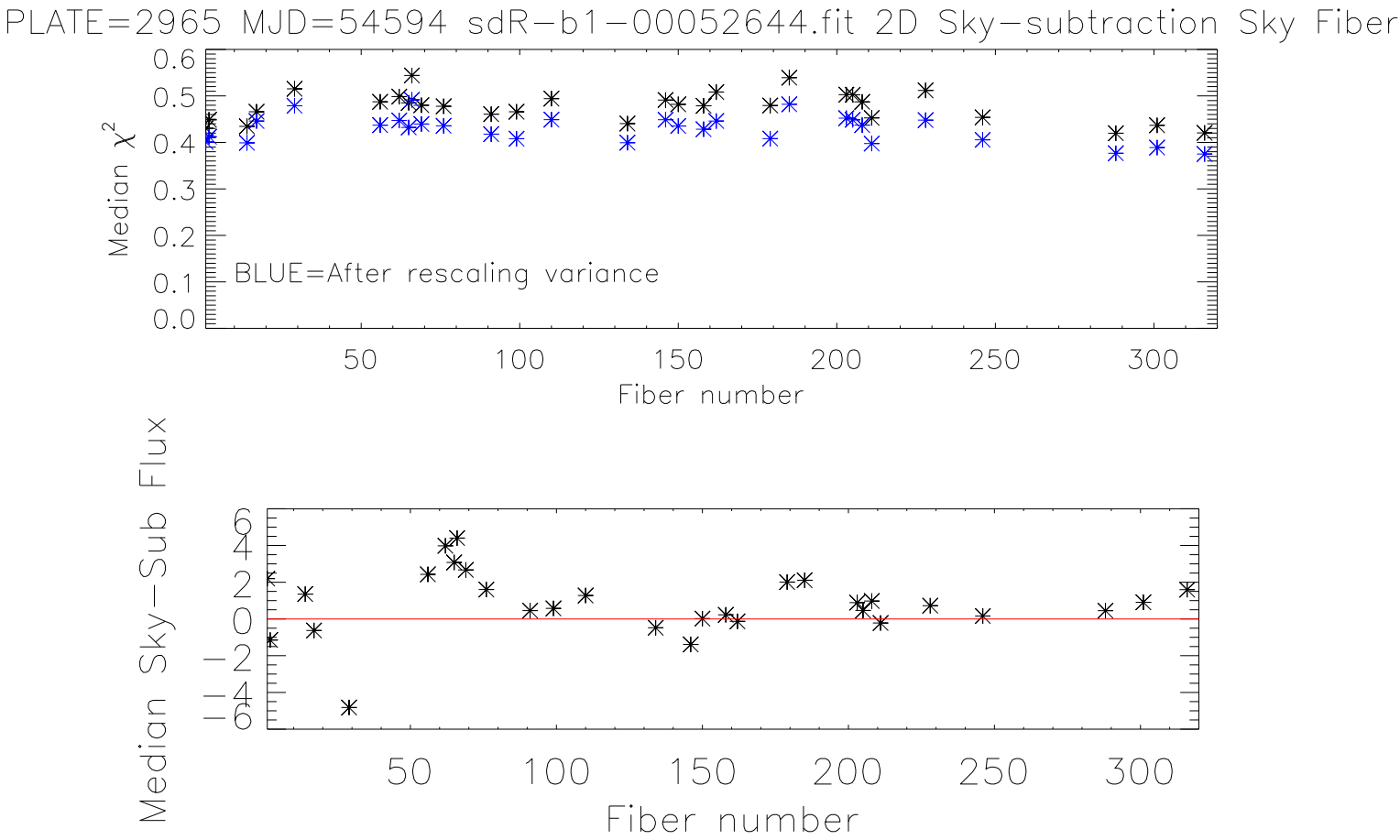
es= −0.0002

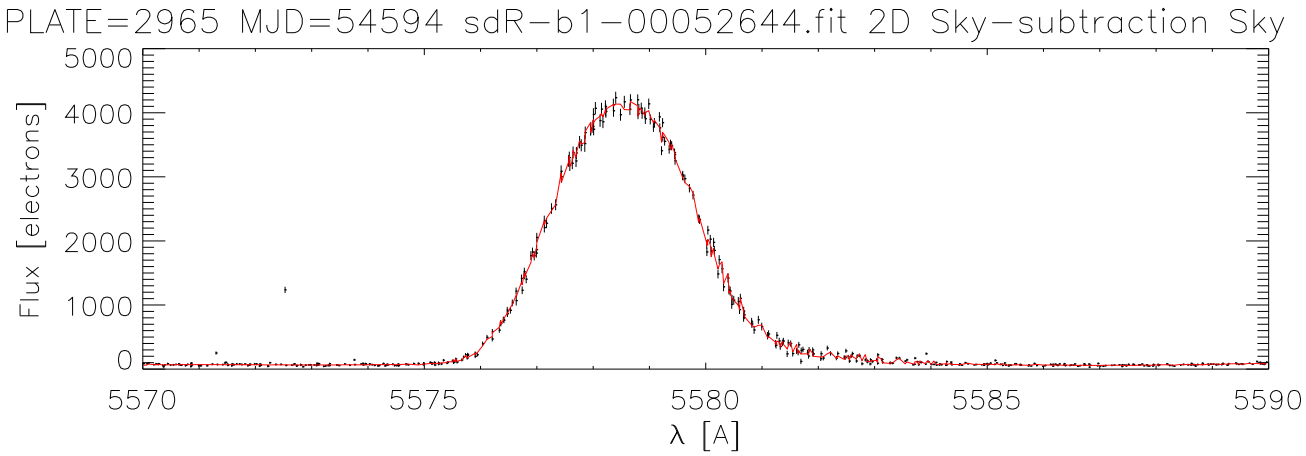

PLATE=2965 MJD=54594 sdR-b1-00052644.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-1.6
-1.4
-1.2
-1.0
-0.8
50
100
150
200
250
300
Fiber number

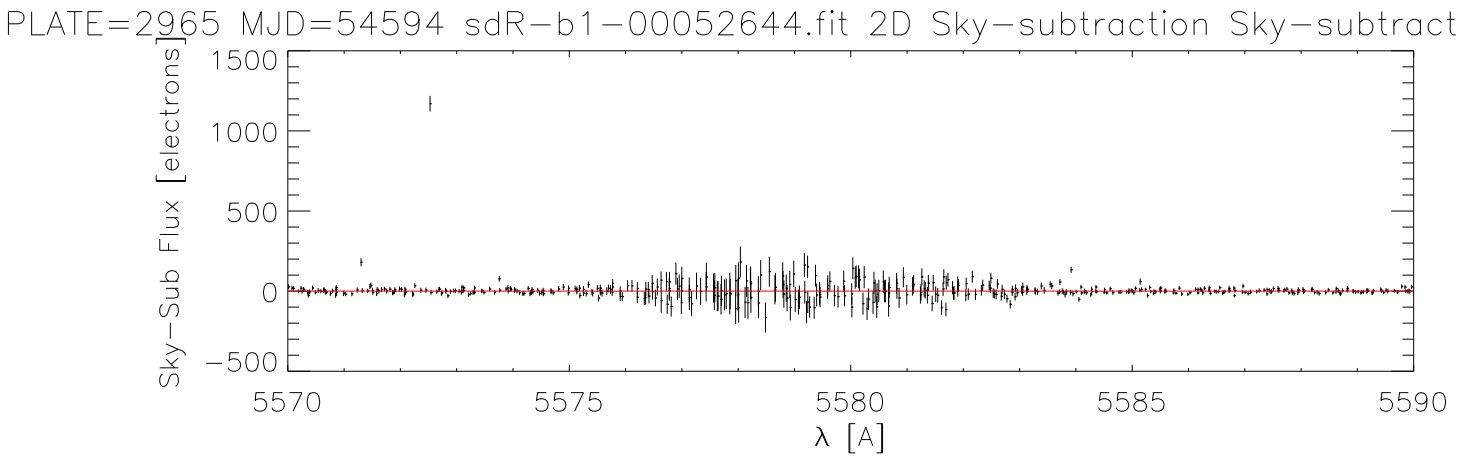

PLATE=2965 MJD=54594 sdR-b1-00052644.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

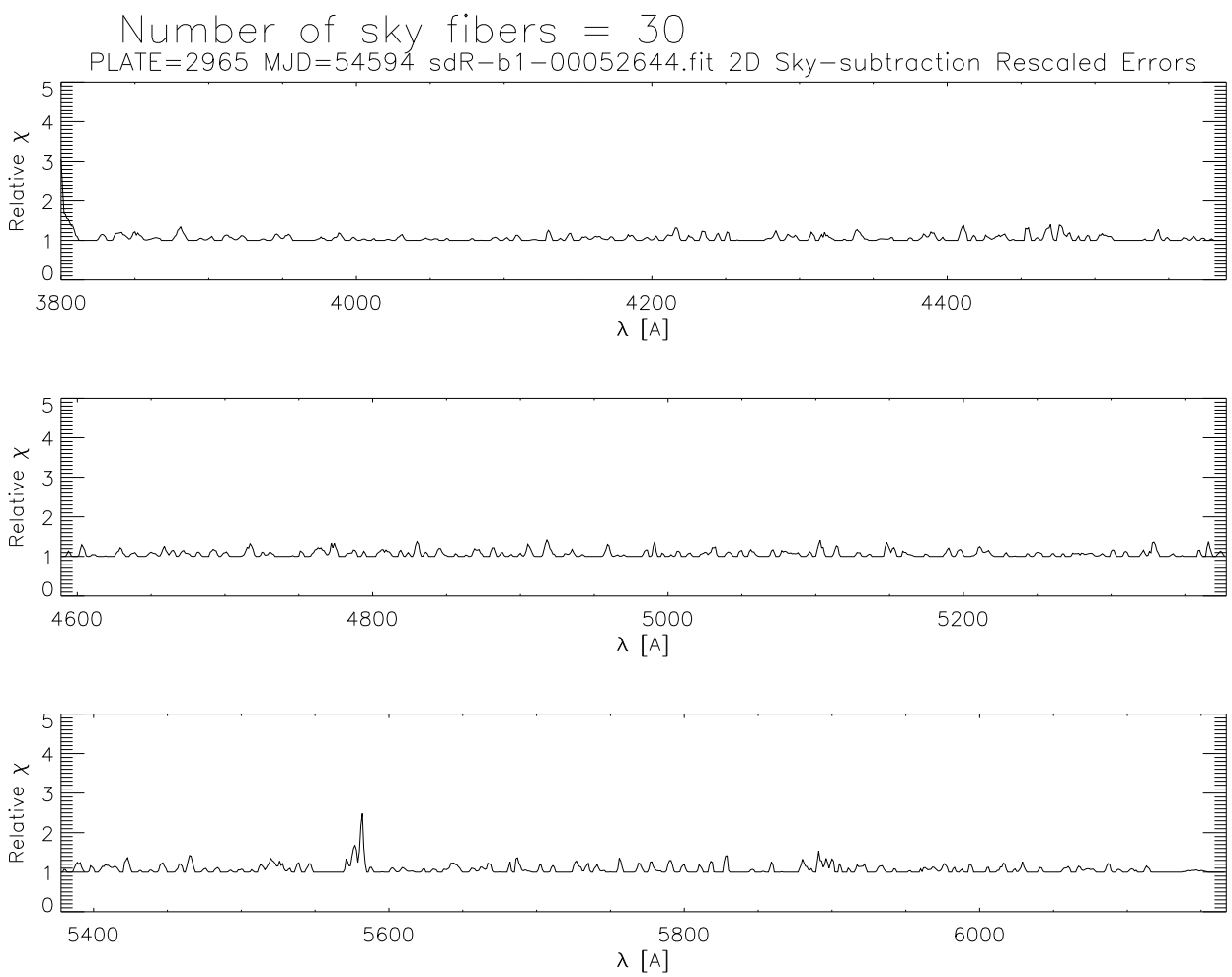

PLATE=2965 MJD=54594 sdR-b1-00052644.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
5570
5575
5580
5585
5590
λ [A]

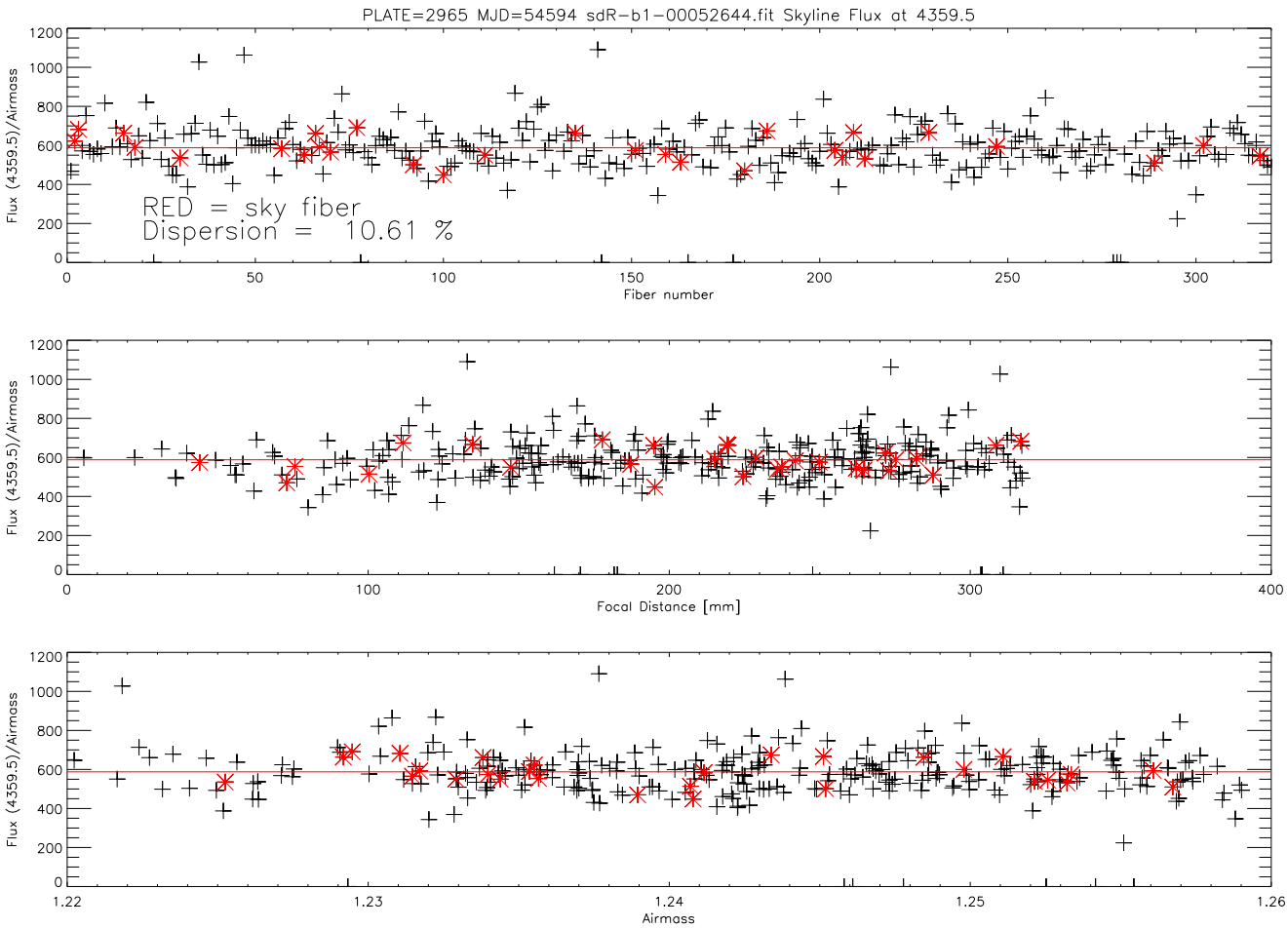

Number of sky fibers = 30
PLATE=2965 MJD=54594 sdR-b1-00052644.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

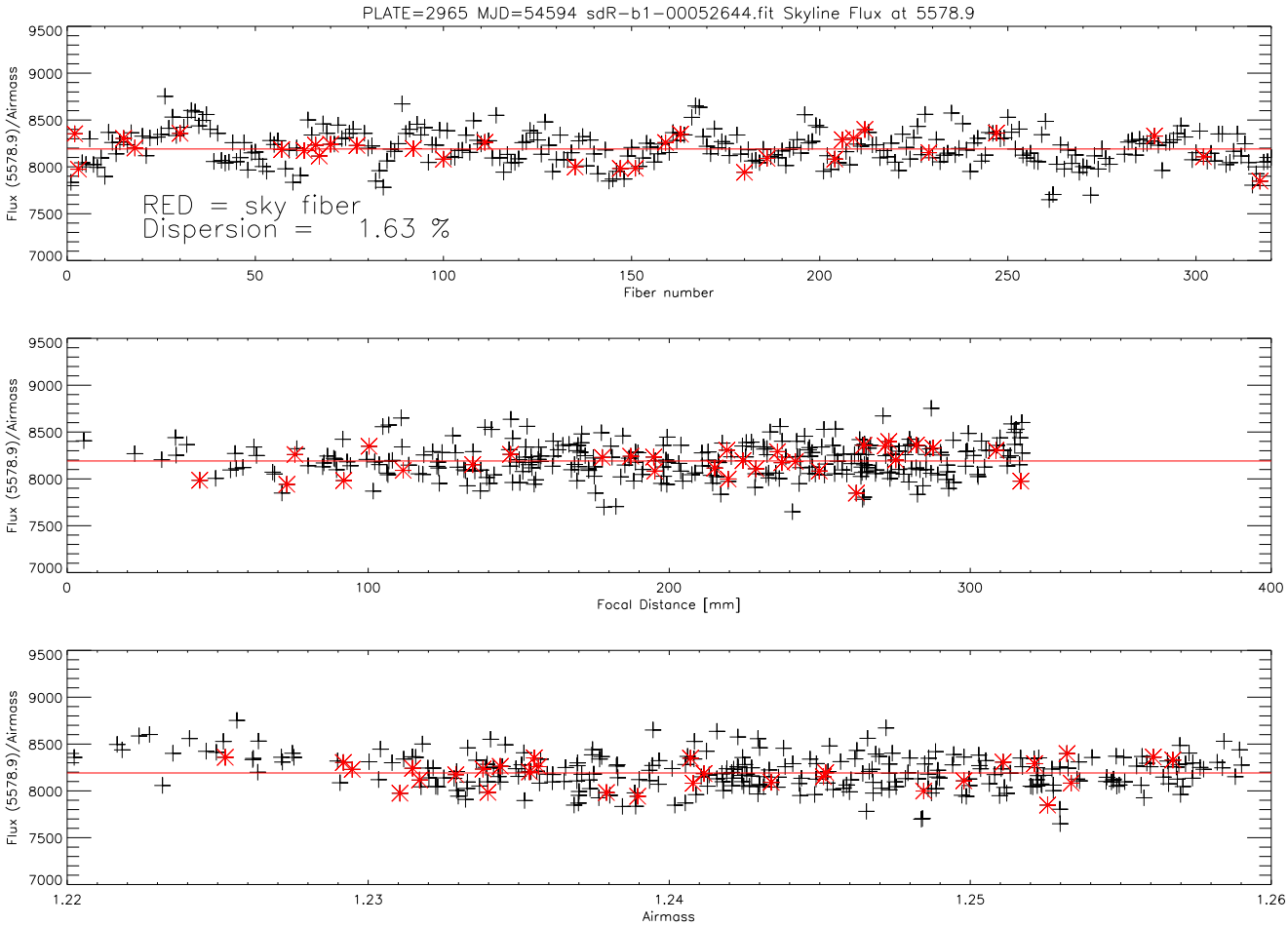

PLATE=2965 MJD=54594 sdR-b1-00052644.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

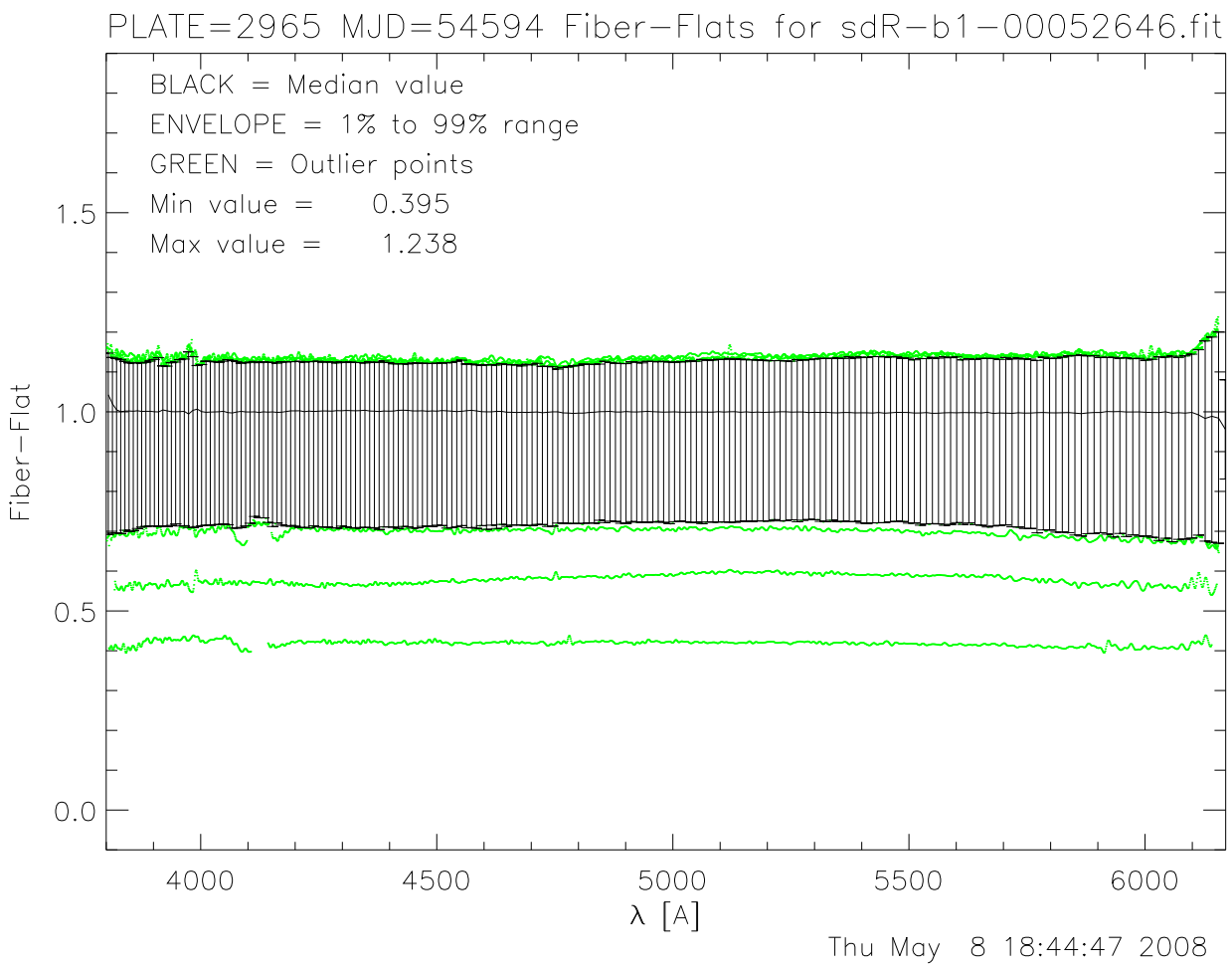

PLATE=2965 MJD=54594 sdR-b1-00052644.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

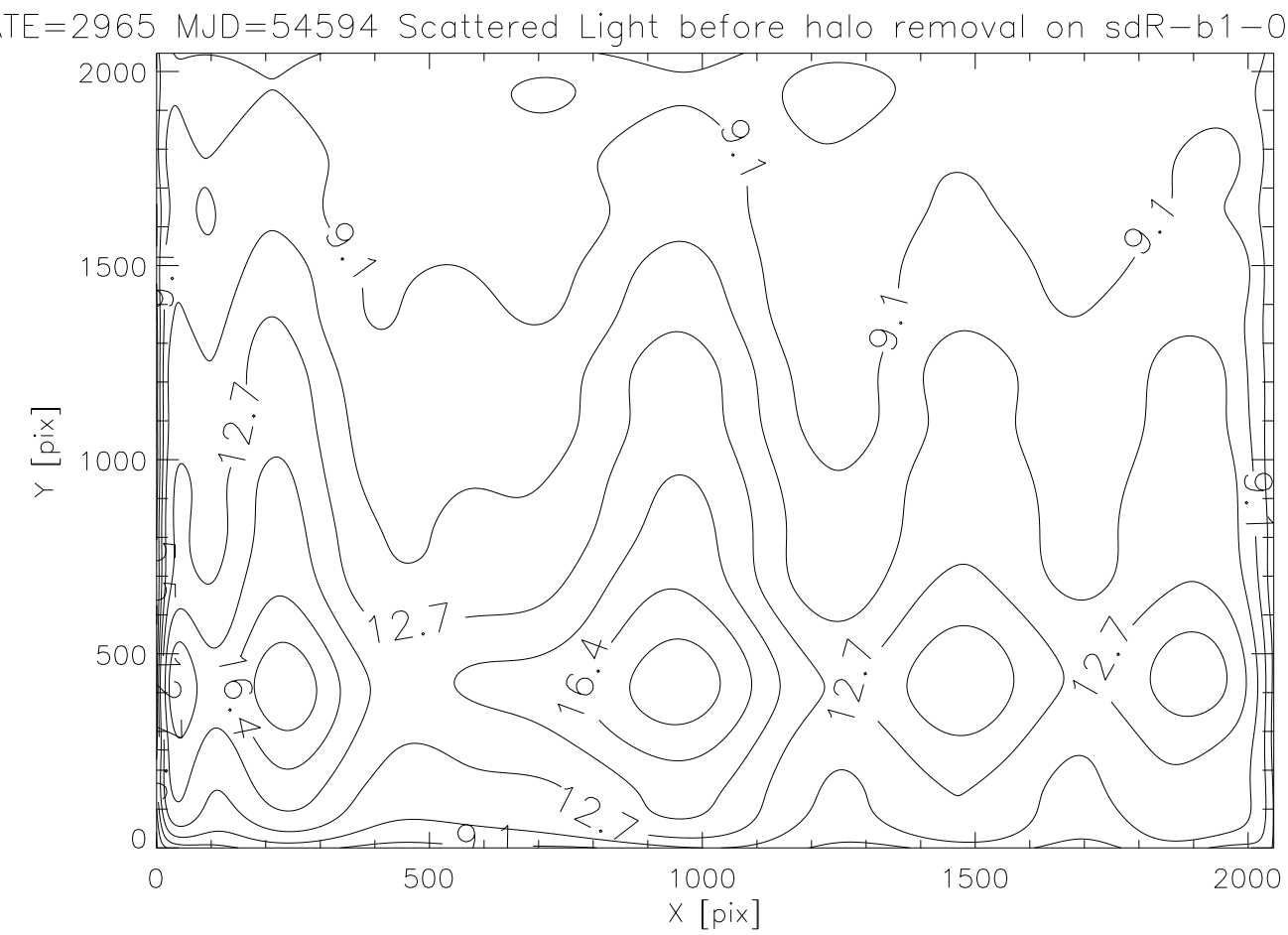

PLATE=2965 MJD=54594 sdR-b1-00052644.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
5570
5575
5580
5585
5590
λ [A]

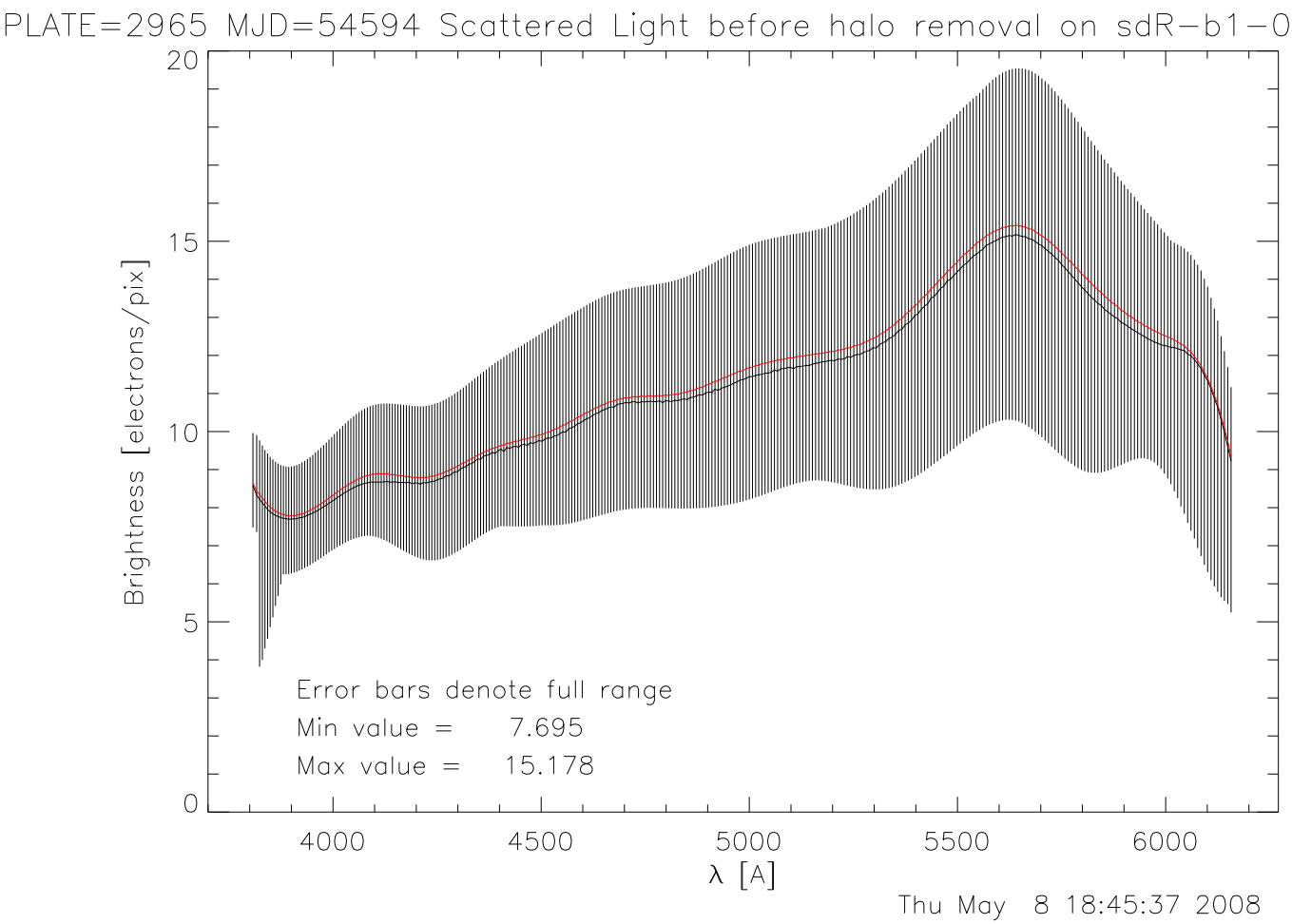

Number of sky fibers = 30
PLATE=2965 MJD=54594 sdR-b1-00052644.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

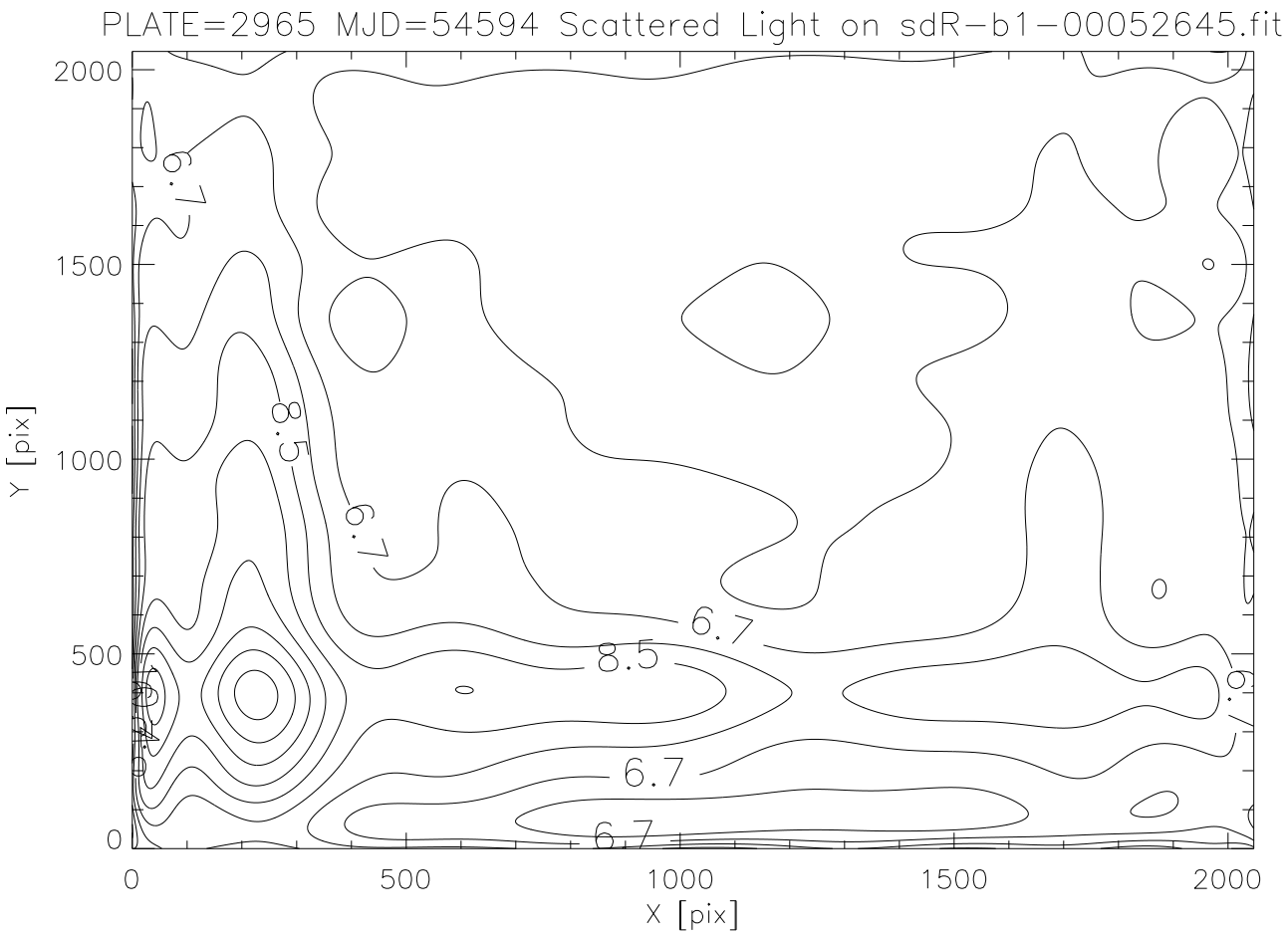

PLATE=2965 MJD=54594 sdR-b1-00052644.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 10.61 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

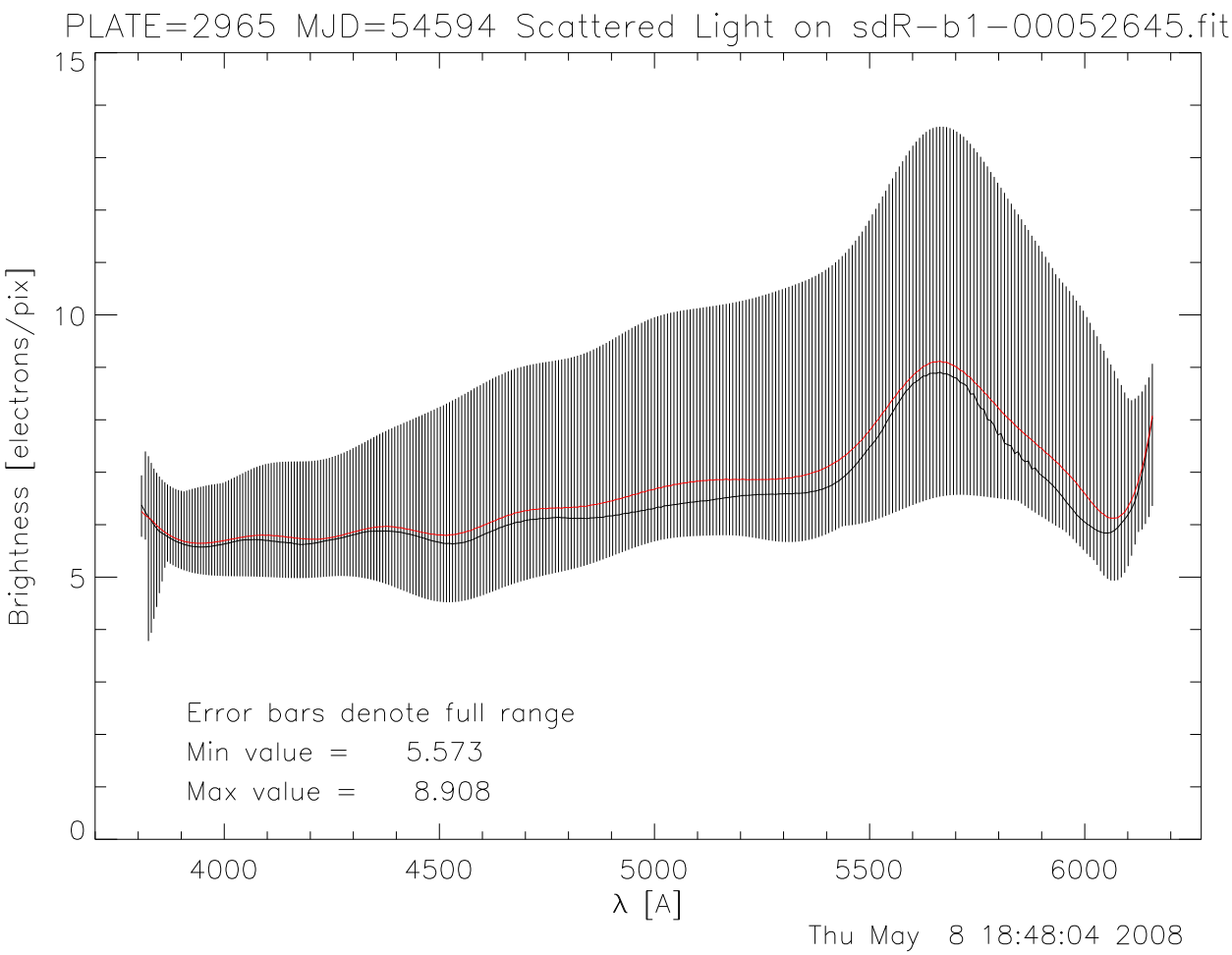

PLATE=2965 MJD=54594 sdR-b1-00052644.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.63 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

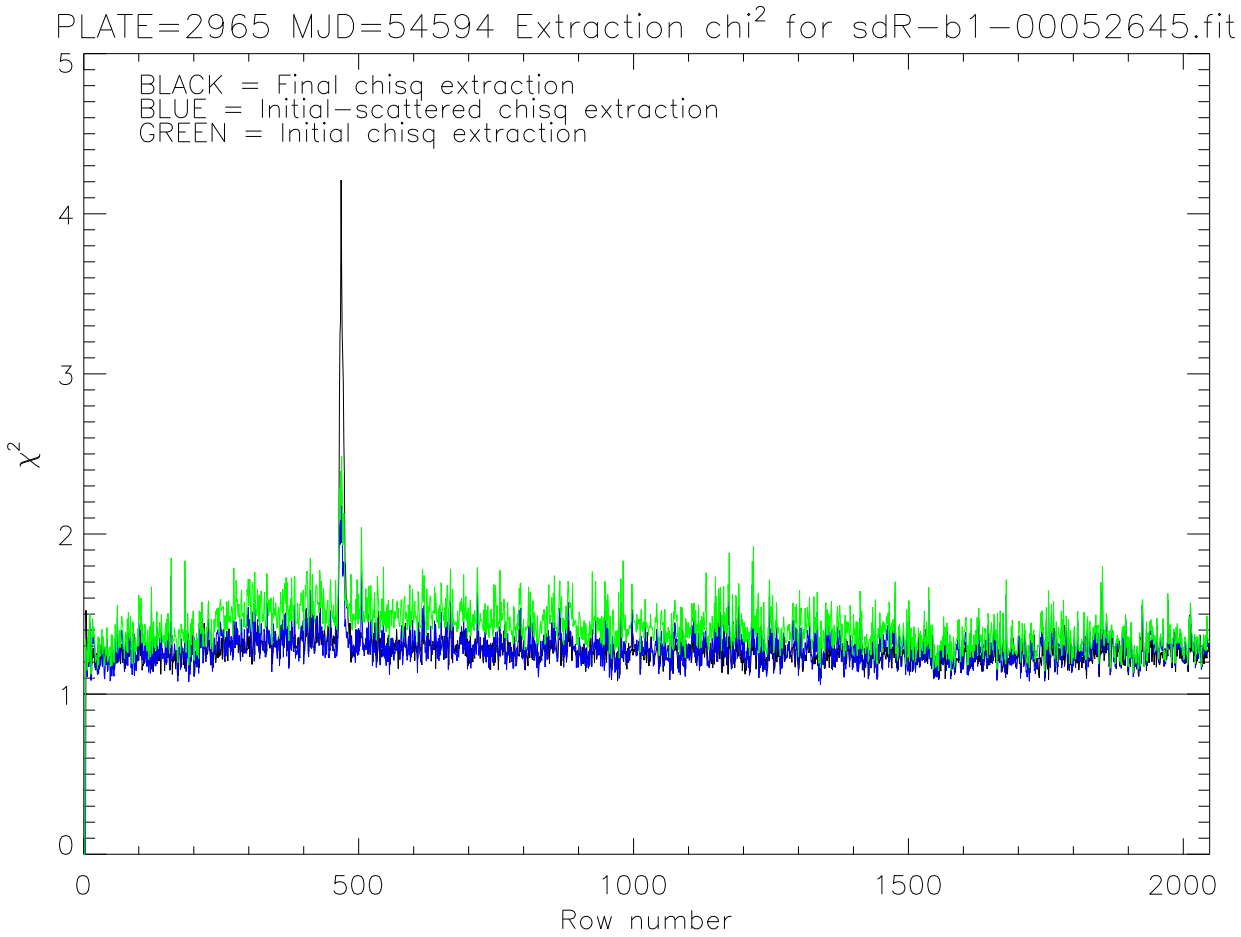

PLATE=2965 MJD=54594 Fiber-Flats for sdR-b1-00052646.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.395
Max value = 1.238
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Thu May 8 18:44:47 2008

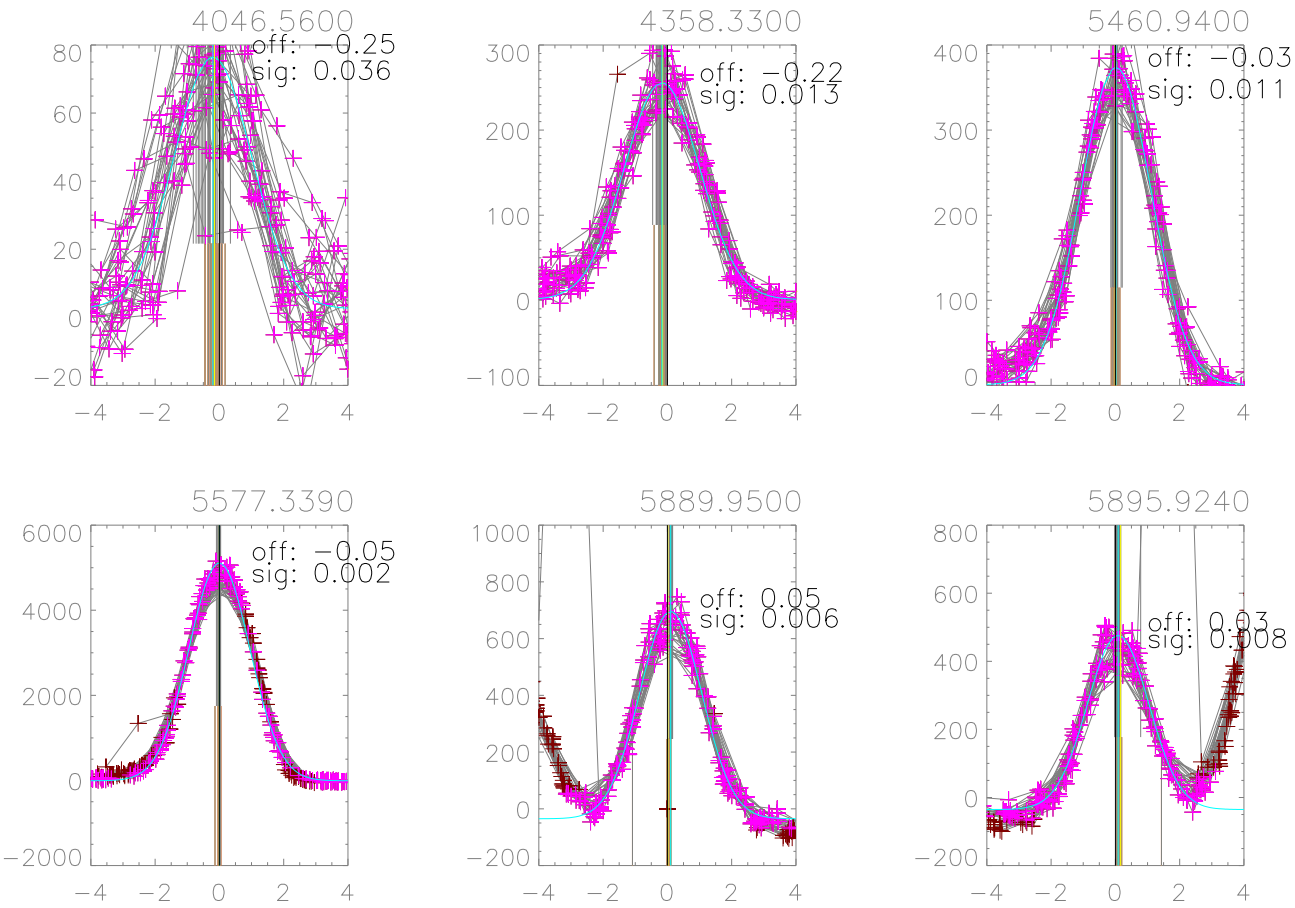

PLATE=2965 MJD=54594 Scattered Light before halo removal on sdR−b1−00052645.f
Y [pix]
X [pix]
0
500
1000
1500
2000
9.1
12.7
16.4

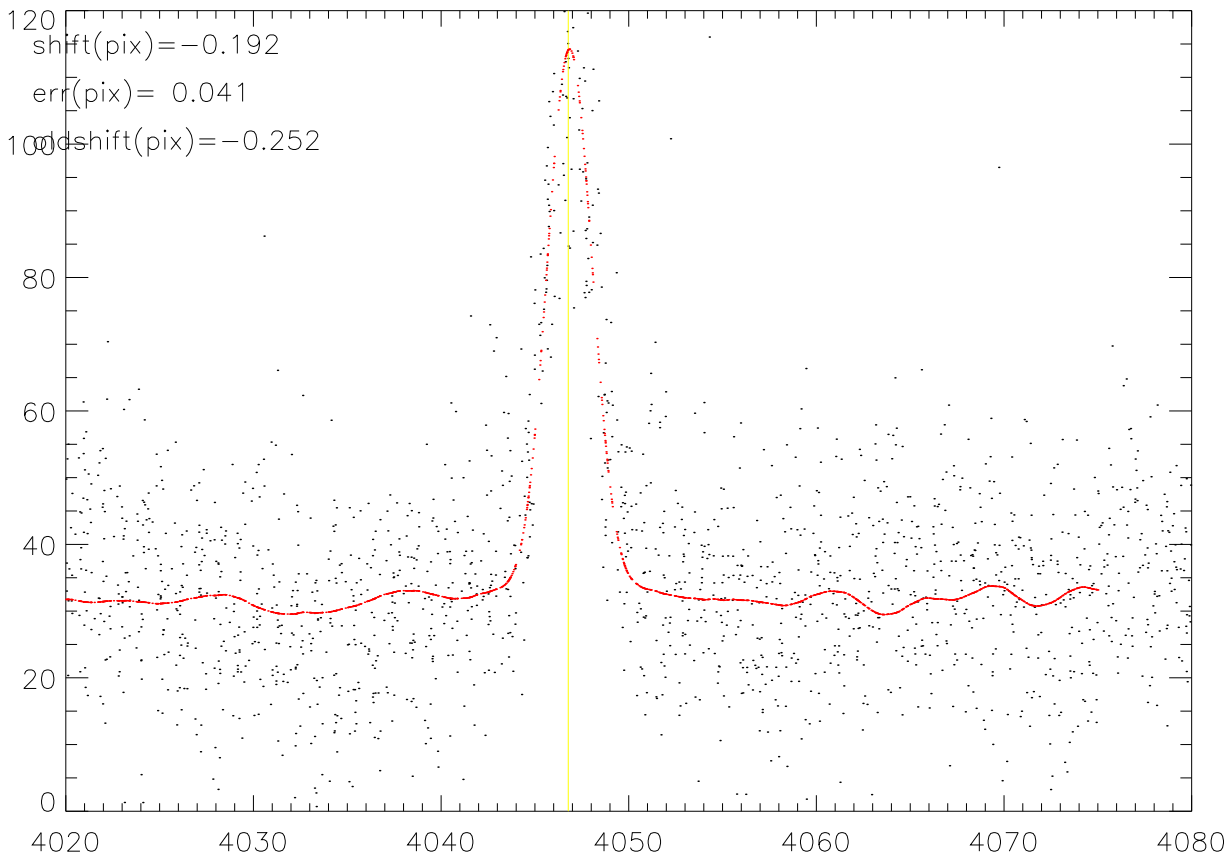

PLATE=2965 MJD=54594 Scattered Light before halo removal on sdR-b1-00052645.f
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 7.695
Max value = 15.178
4000
4500
5000
5500
6000
λ [A]
Thu May 8 18:45:37 2008

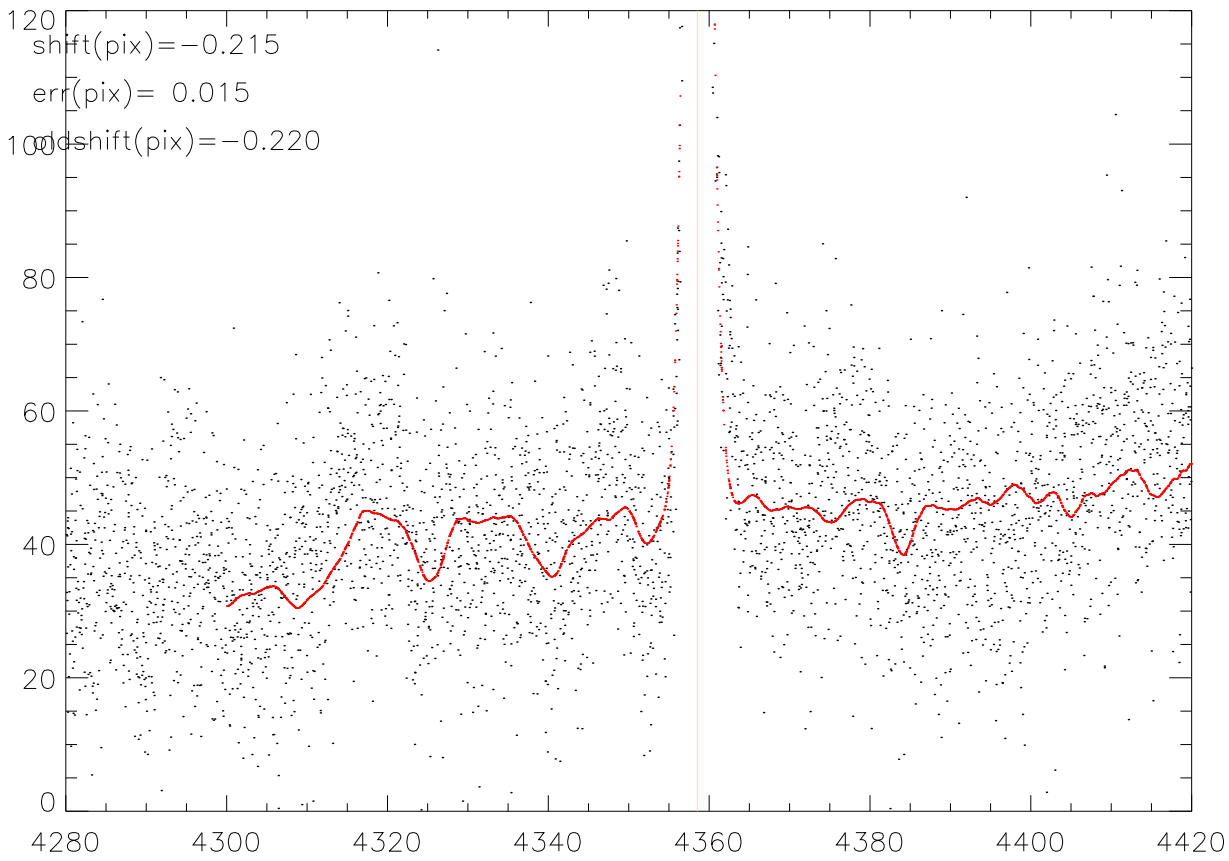

PLATE=2965 MJD=54594 Scattered Light on sdR-b1-00052645.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
6.7
8.5
6.7
6.7
8.5
6.7
6.7
8.5
0
0
0

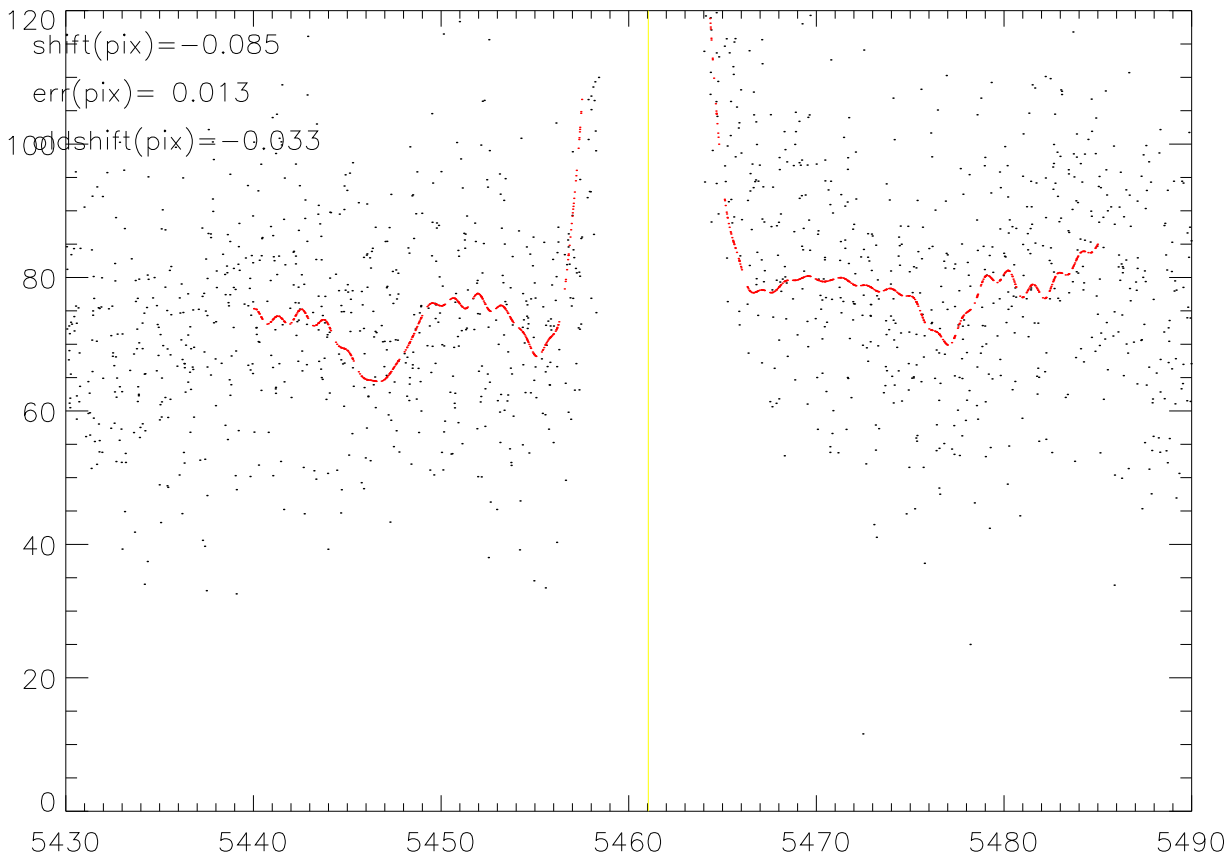

PLATE=2965 MJD=54594 Scattered Light on sdR-b1-00052645.fit
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 5.573
Max value = 8.908
Thu May 8 18:48:04 2008

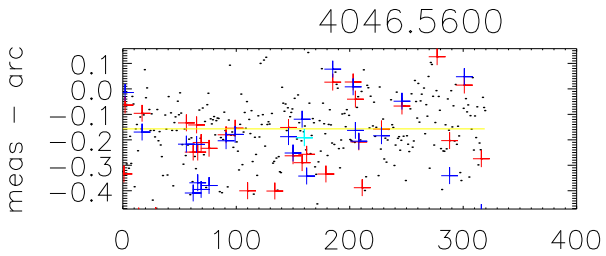

PLATE=2965 MJD=54594 Extraction chi^2 for sdR−b1−00052645.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

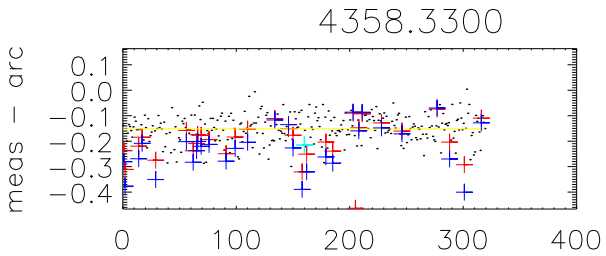

4046.5600
off: −0.25
sig: 0.036
4358.3300
off: −0.22
sig: 0.013
5460.9400
off: −0.03
sig: 0.011
5577.3390
off: −0.05
sig: 0.002
5889.9500
off: 0.05
sig: 0.006
5895.9240
off: 0.03
sig: 0.008

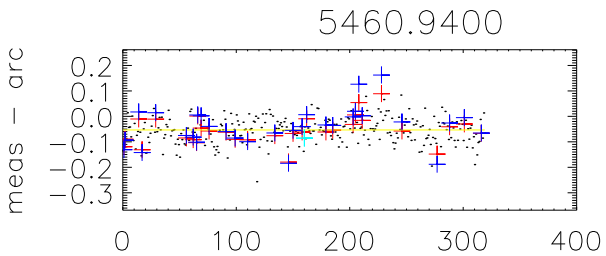

shift(pix)=−0.192
err(pix)= 0.041
oldshift(pix)=−0.252
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

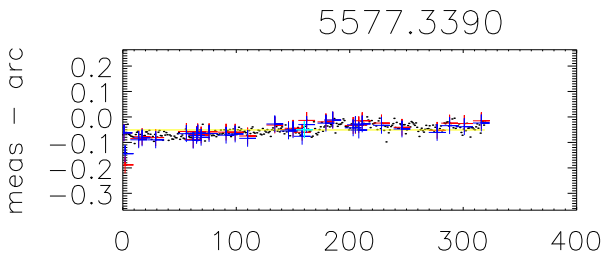

shift(pix)=−0.215
err(pix)= 0.015
oldshift(pix)=−0.220
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

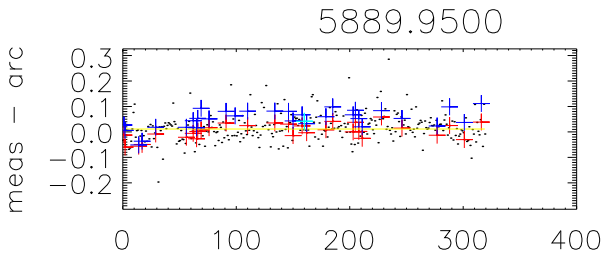

shift(pix)=−0.085
err(pix)= 0.013
oldshift(pix)=−0.033
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

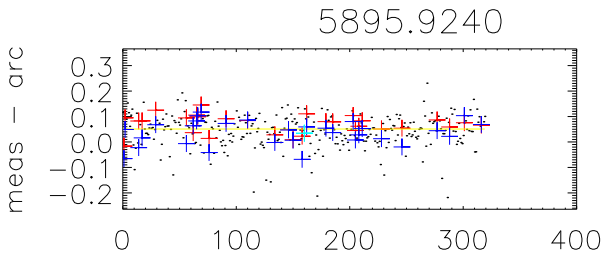

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

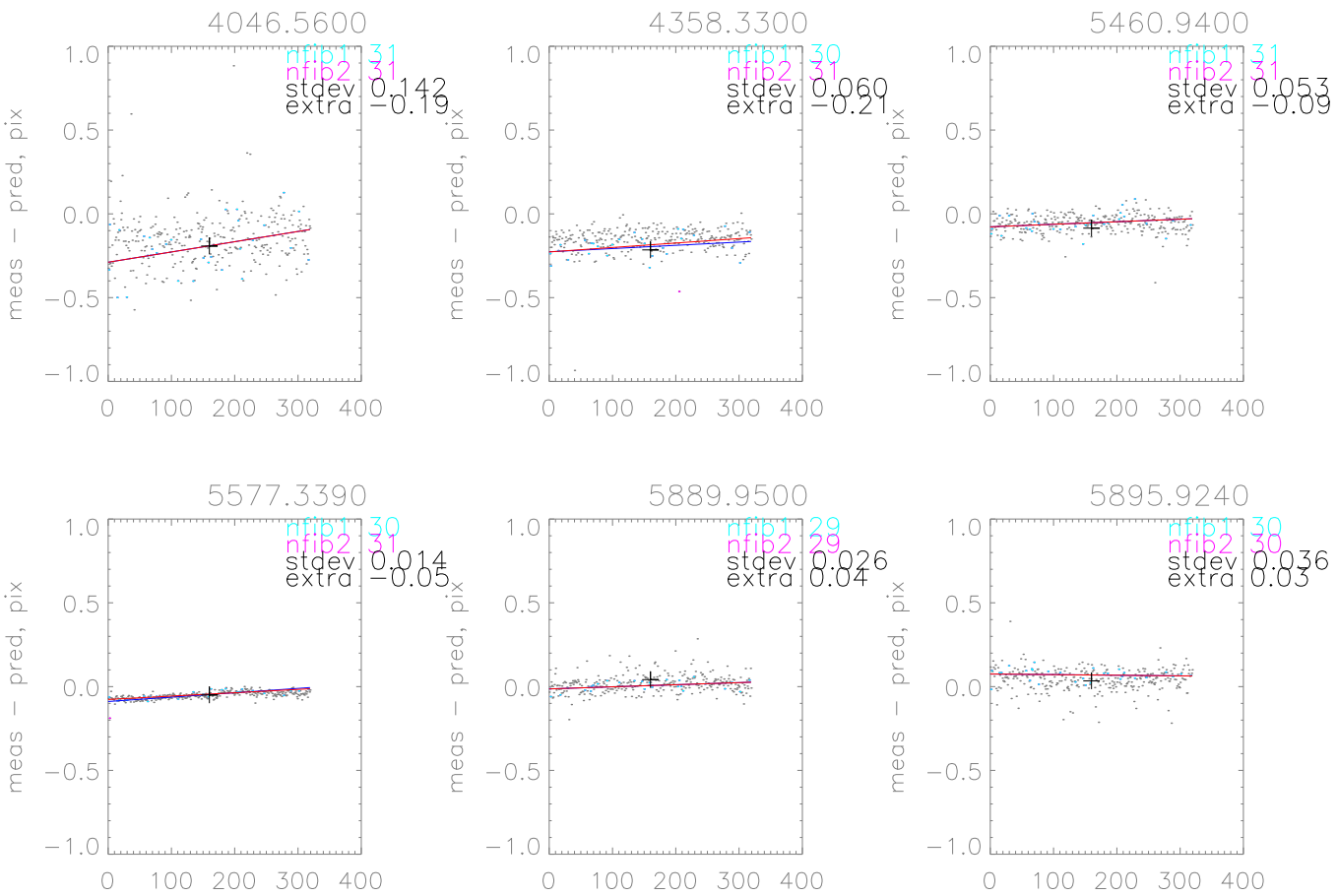

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

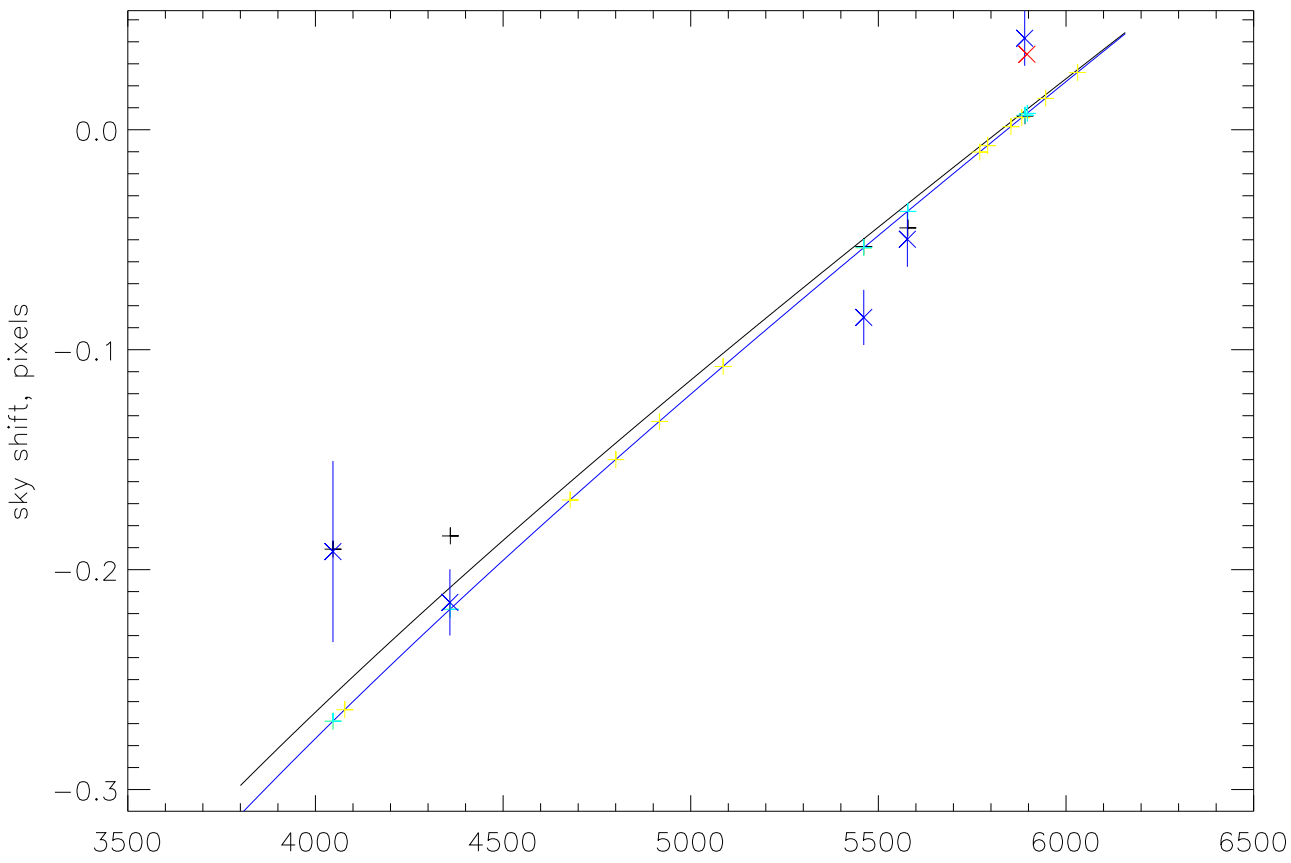

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

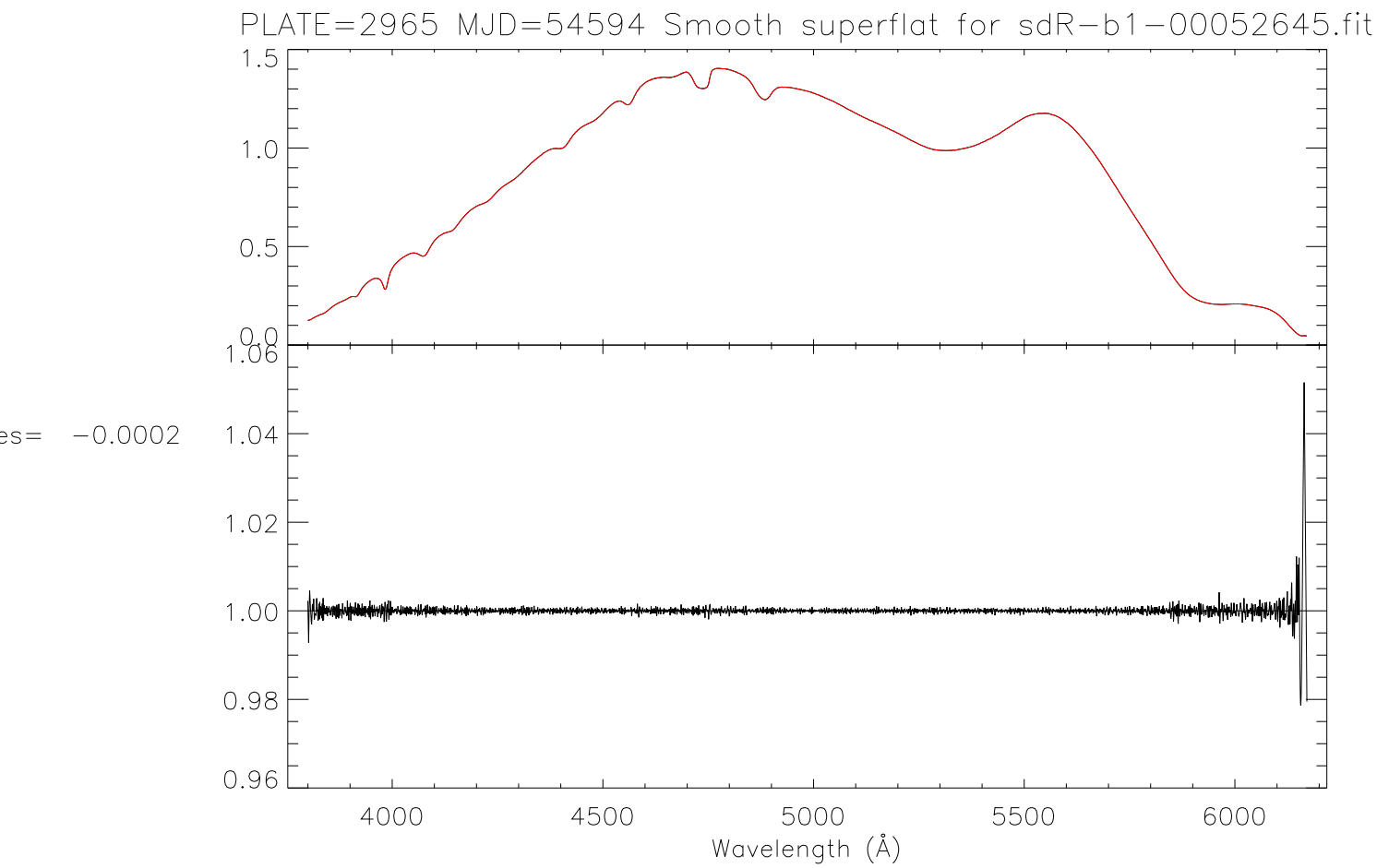

5577.3390
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

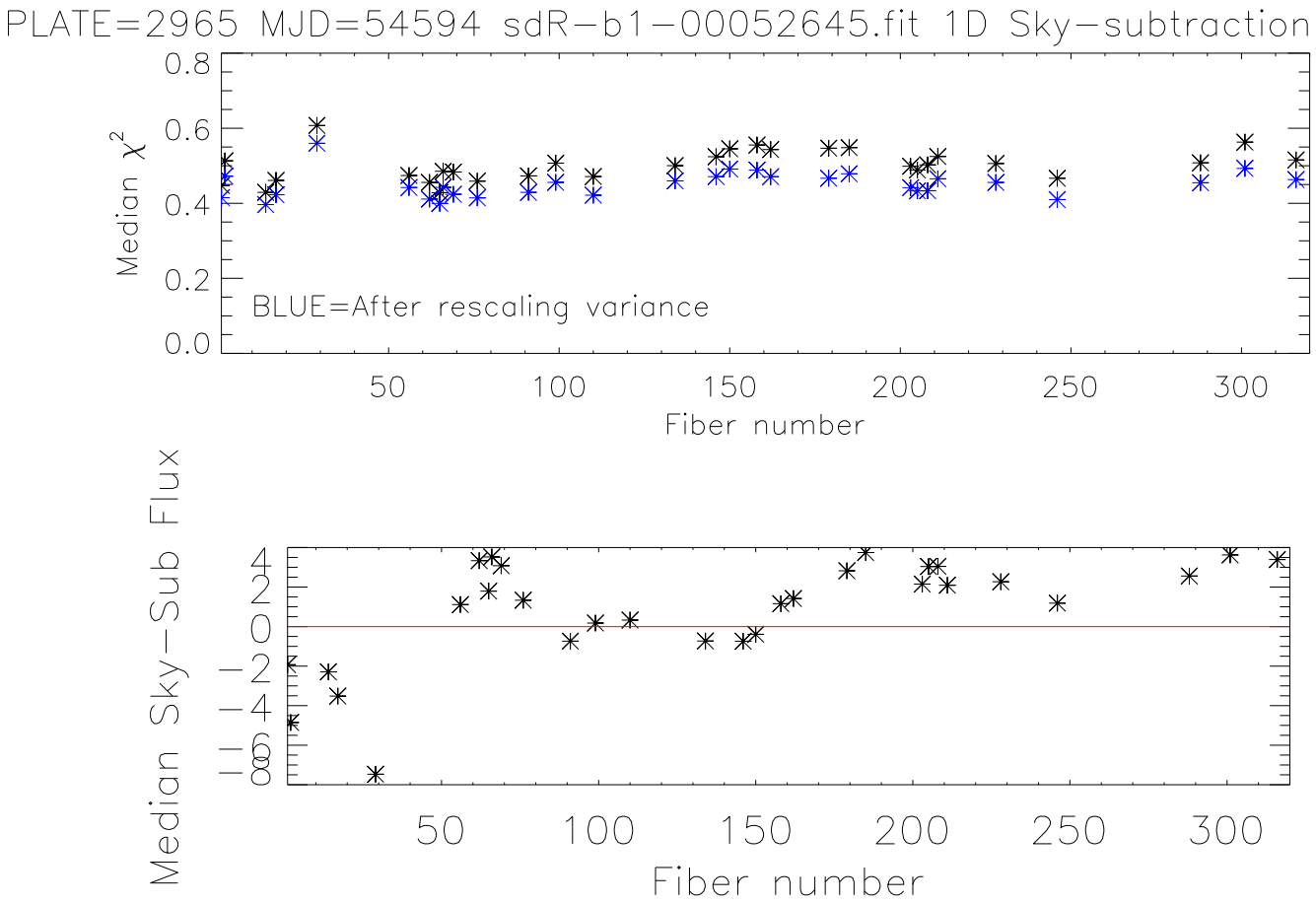

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

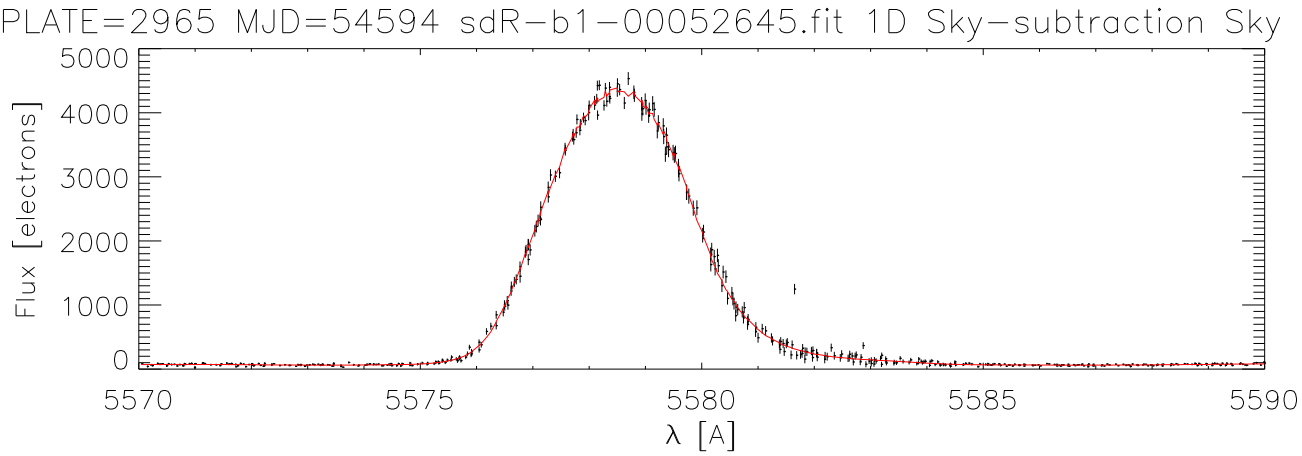

4046.5600
nfib1 31
nfib2 31
stdev 0.142
extra −0.19
4358.3300
nfib1 30
nfib2 31
stdev 0.060
extra −0.21
5460.9400
nfib1 31
nfib2 31
stdev 0.053
extra −0.09
5577.3390
nfib1 30
nfib2 31
stdev 0.014
extra −0.05
5889.9500
nfib1 29
nfib2 29
stdev 0.026
extra 0.04
5895.9240
nfib1 30
nfib2 30
stdev 0.036
extra 0.03
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

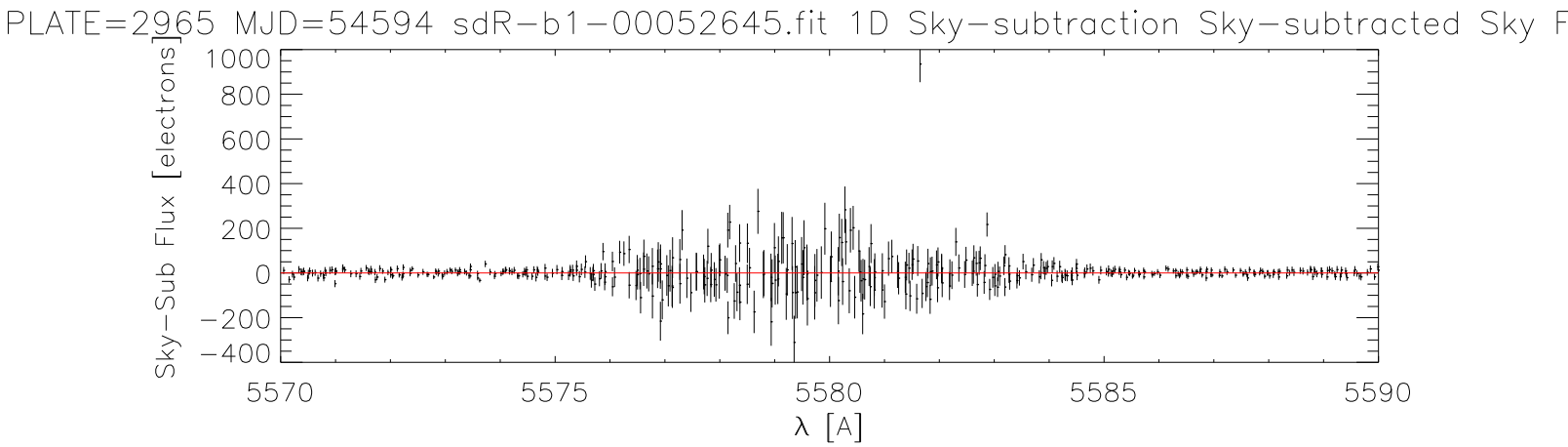

sky shift, pixels
0.0
−0.1
−0.2
−0.3
3500
4000
4500
5000
5500
6000
6500

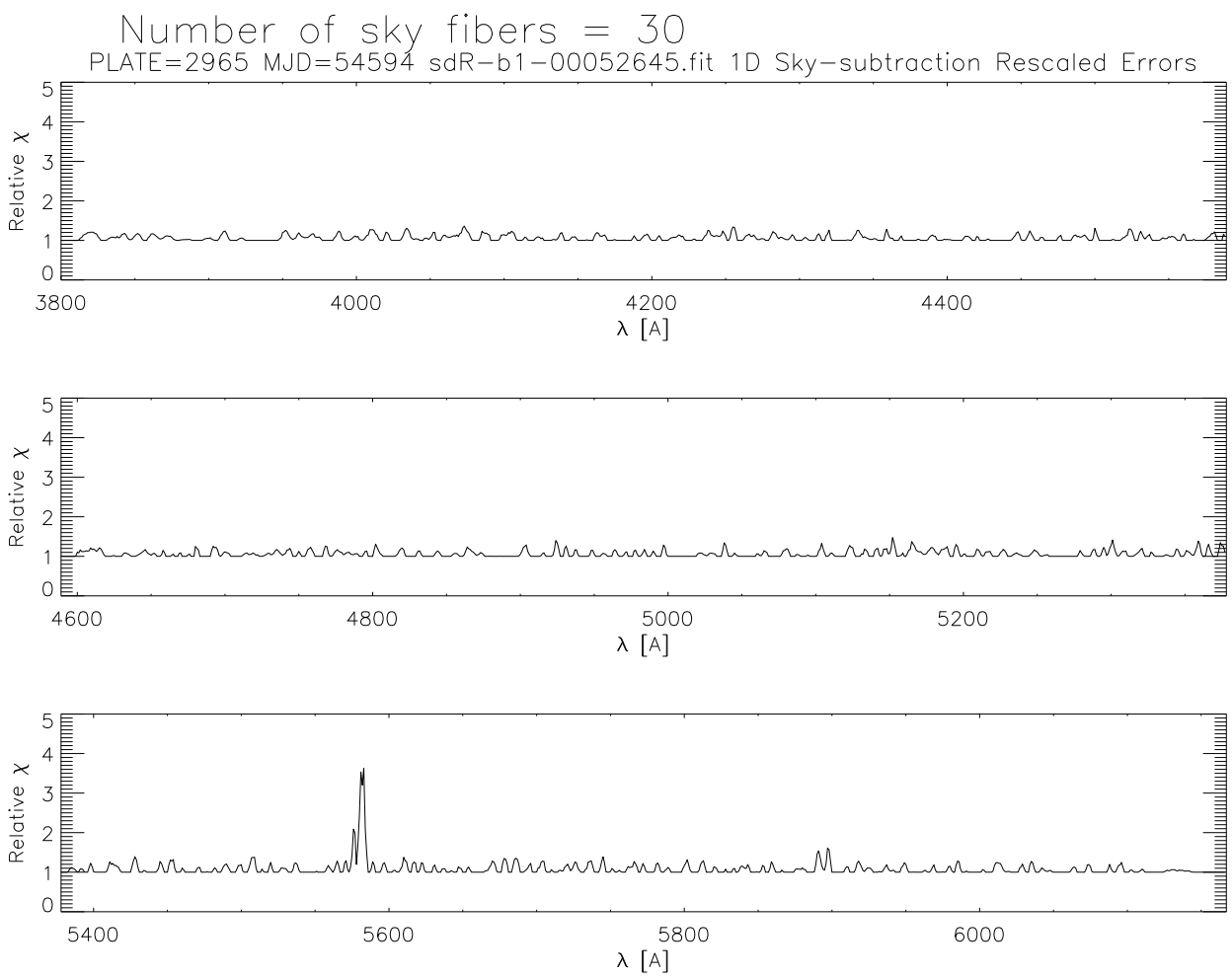

PLATE=2965 MJD=54594 Smooth superflat for sdR-b1-00052645.fit
1.5
1.0
0.5
0.0
1.06
1.04
1.02
1.00
0.98
0.96
4000
4500
5000
5500
6000
Wavelength (Å)

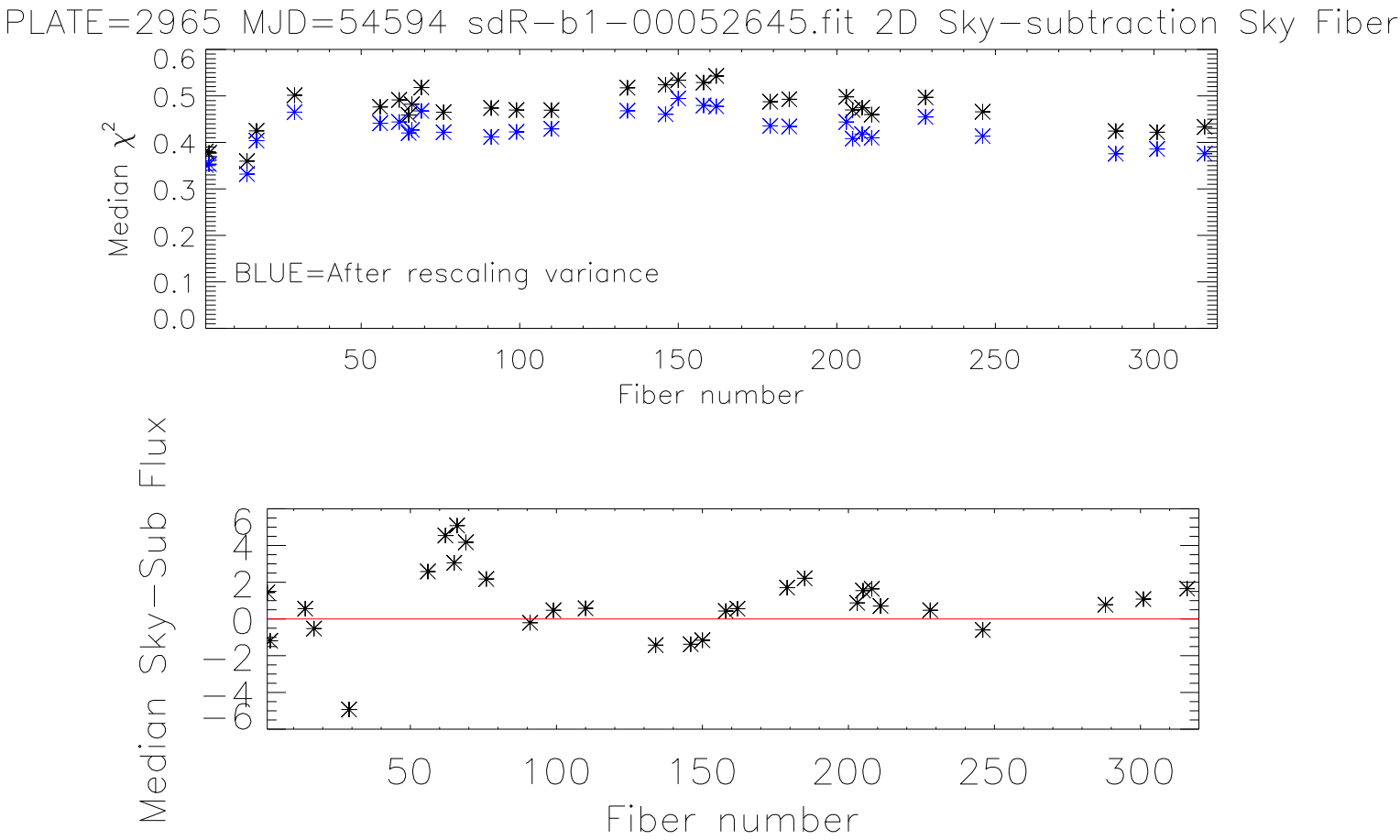
es= −0.0002

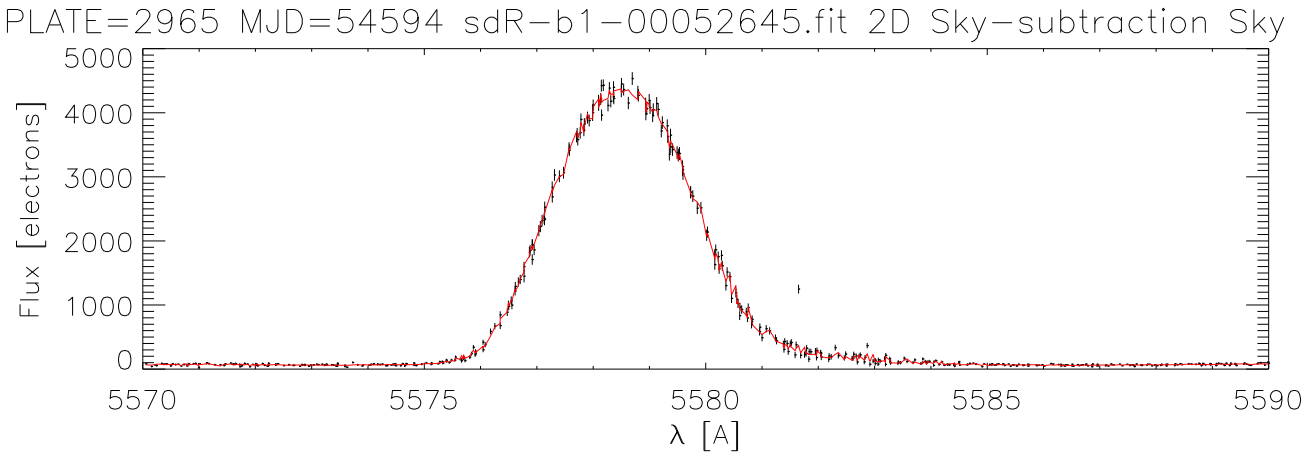

PLATE=2965 MJD=54594 sdR-b1-00052645.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-1.6
-1.4
-1.2
-1.0
-0.8
50
100
150
200
250
300
Fiber number

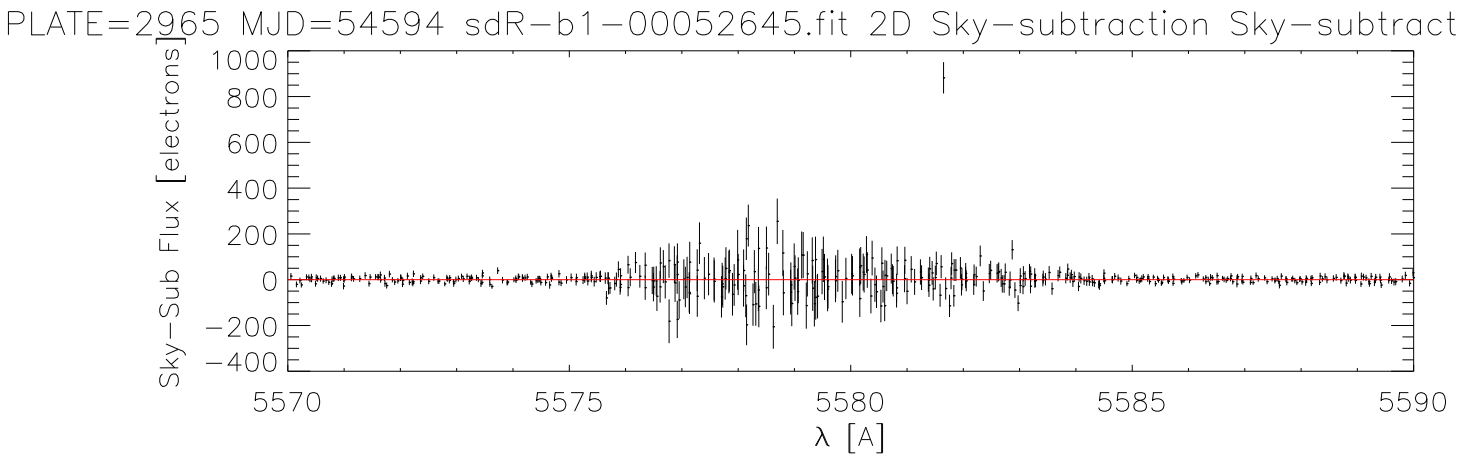

PLATE=2965 MJD=54594 sdR-b1-00052645.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

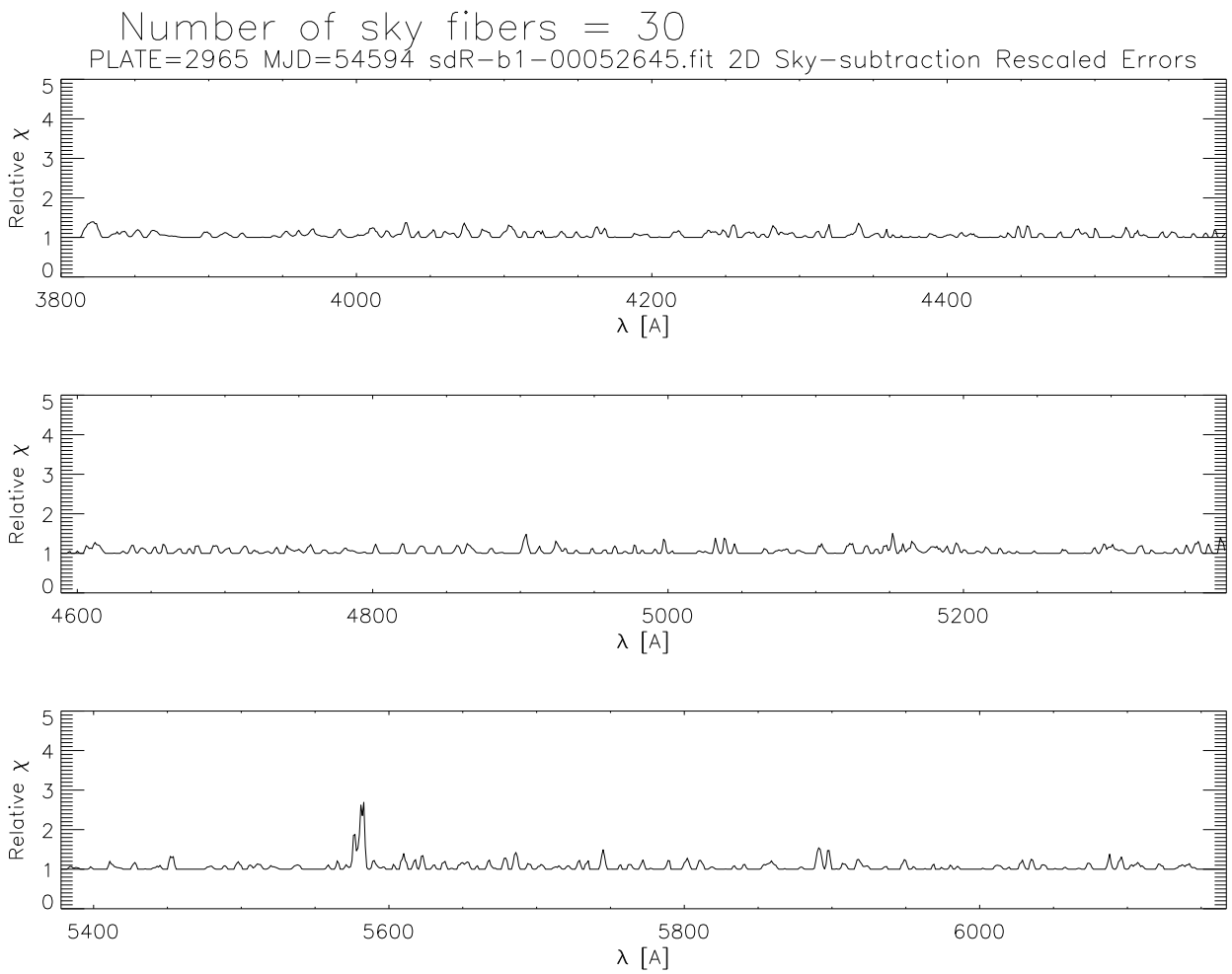

PLATE=2965 MJD=54594 sdR-b1-00052645.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
800
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

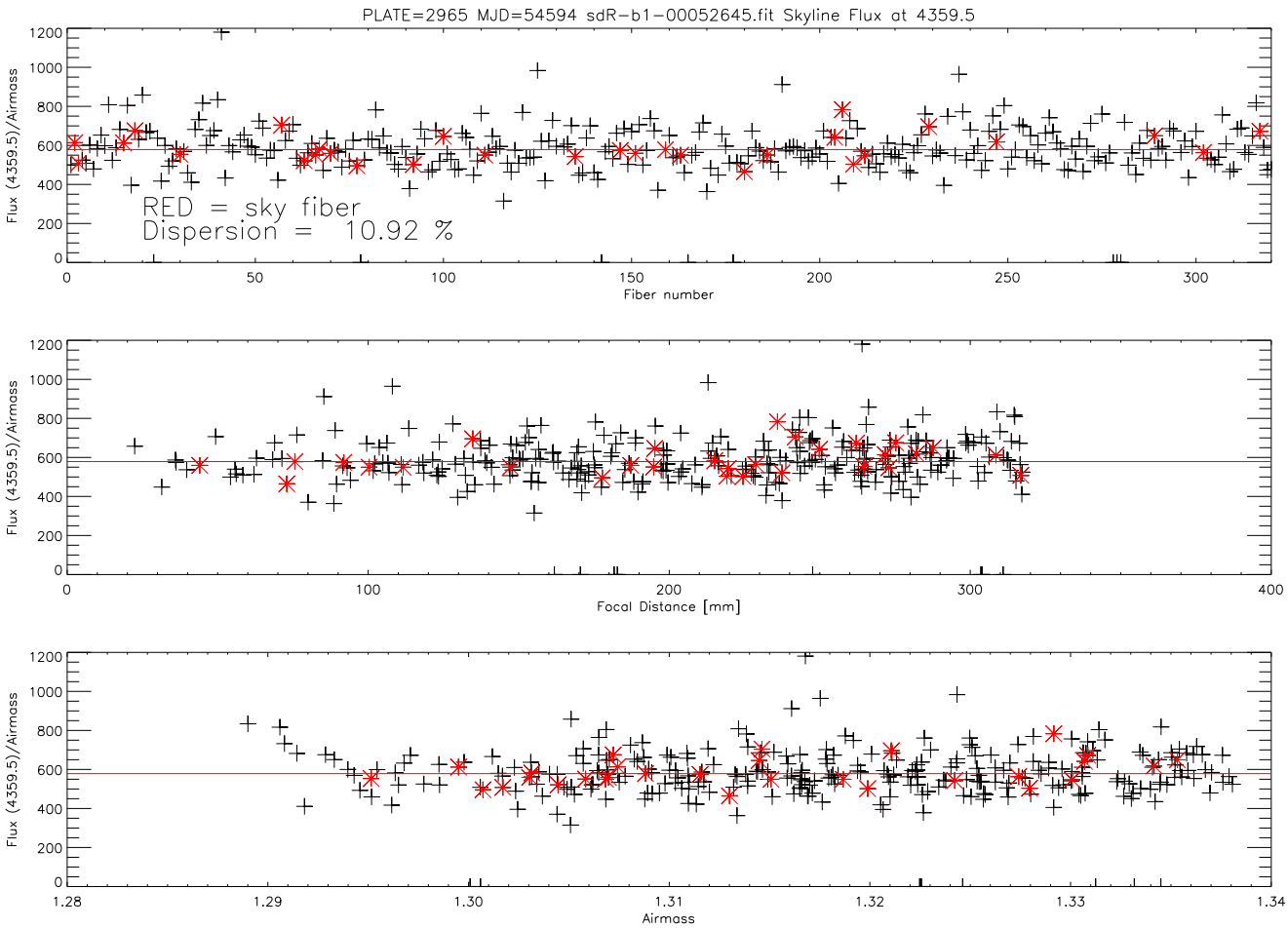

Number of sky fibers = 30
PLATE=2965 MJD=54594 sdR-b1-00052645.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

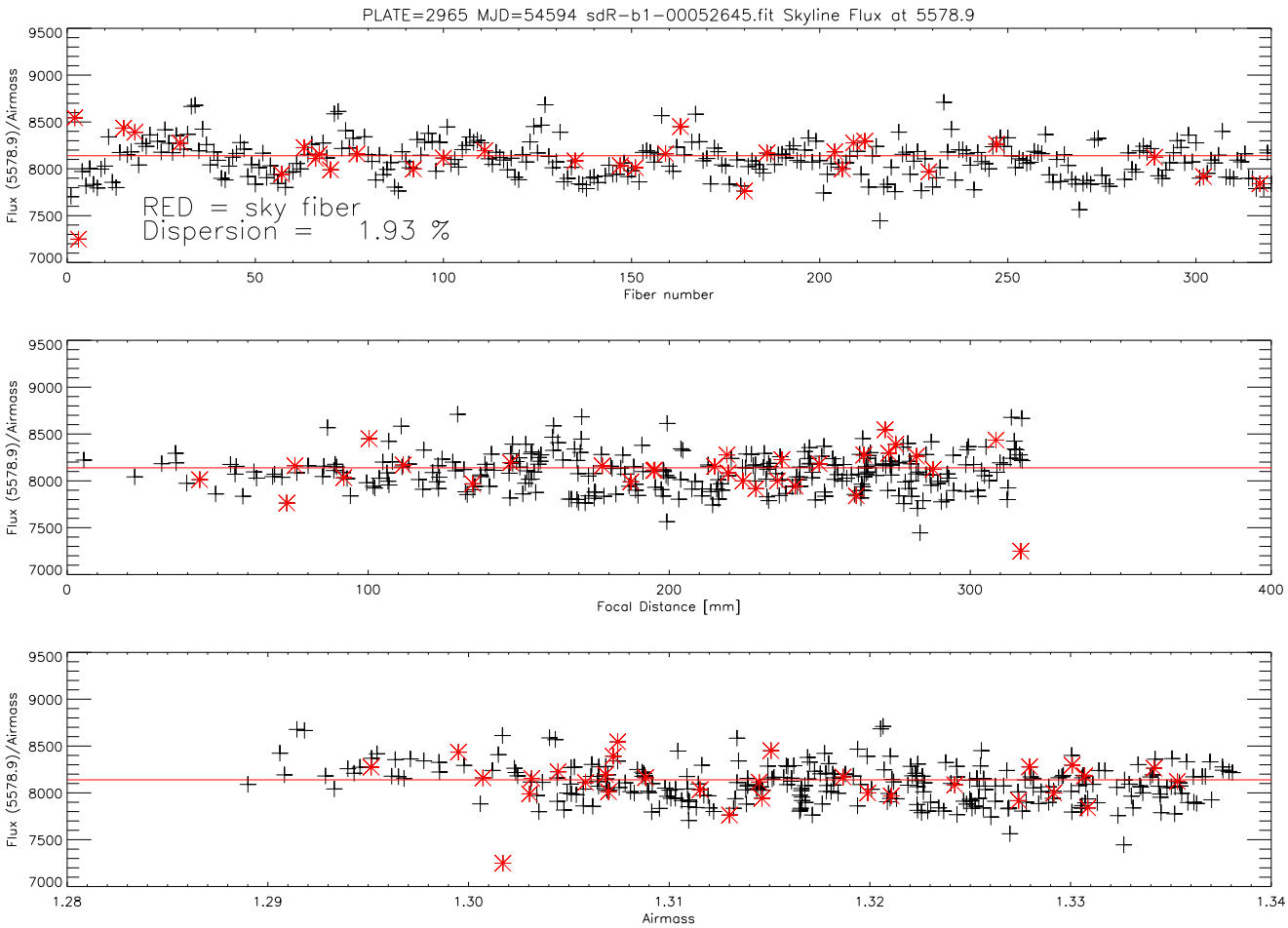

PLATE=2965 MJD=54594 sdR-b1-00052645.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

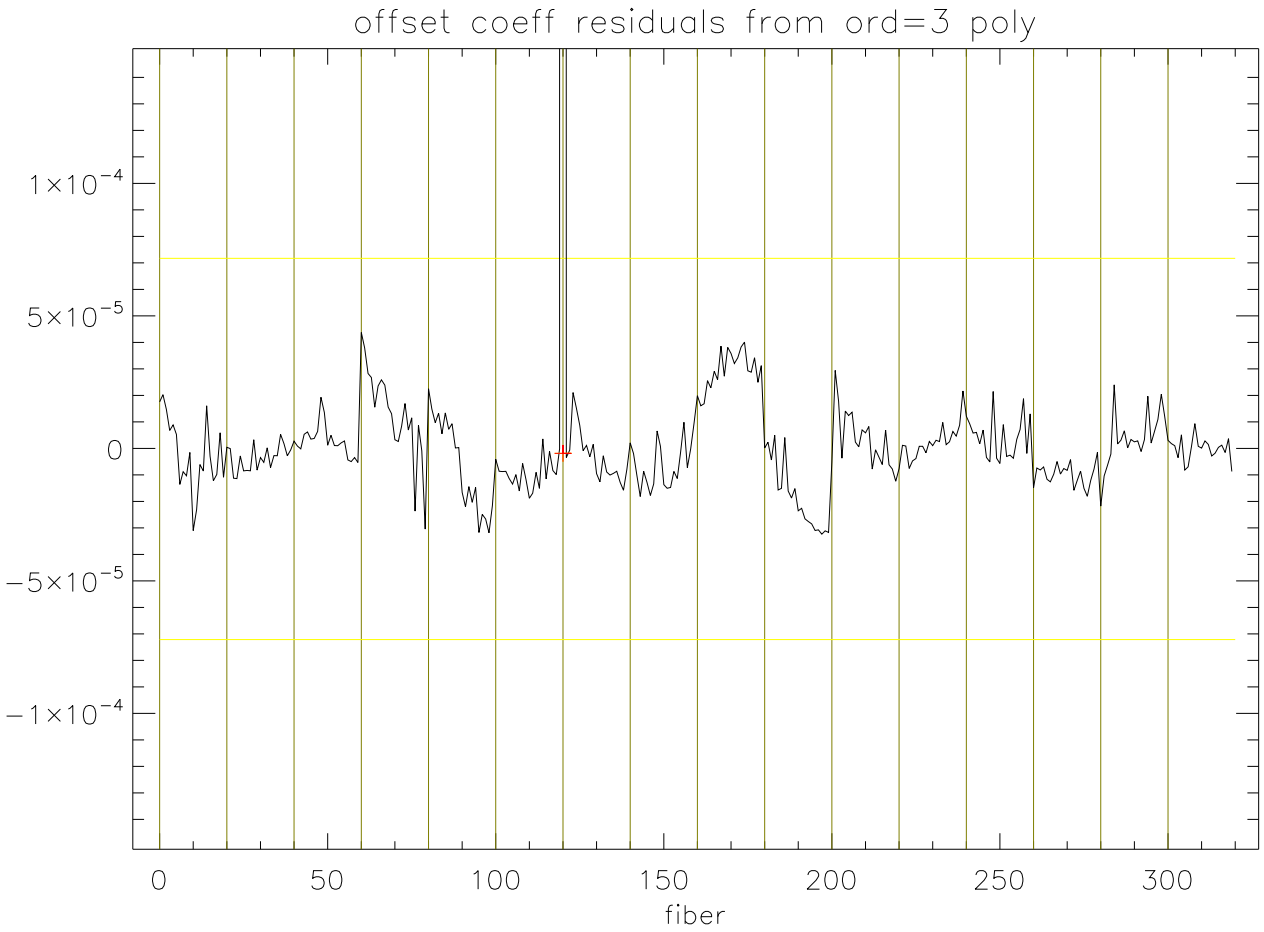

PLATE=2965 MJD=54594 sdR-b1-00052645.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

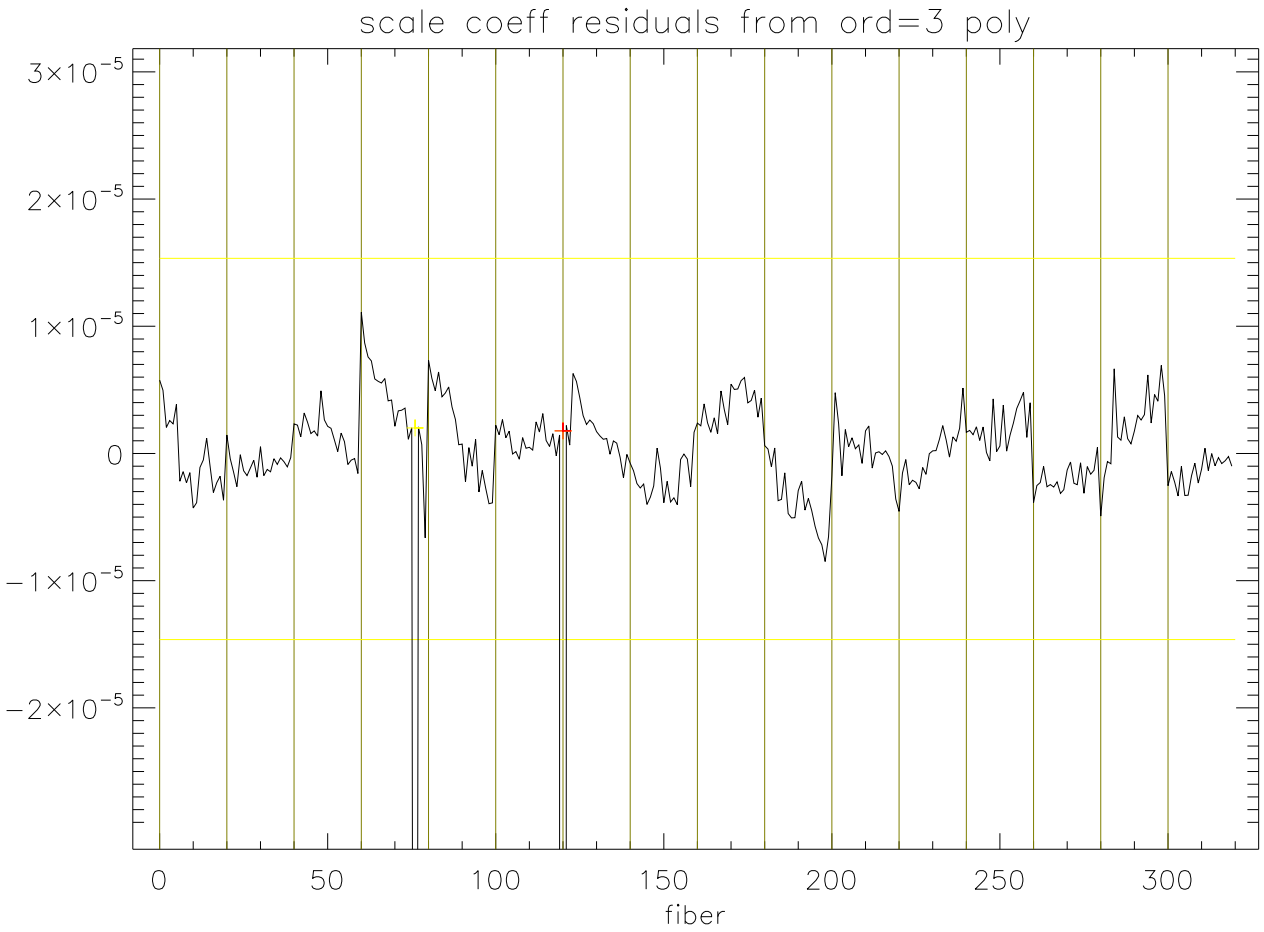

PLATE=2965 MJD=54594 sdR-b1-00052645.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
800
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

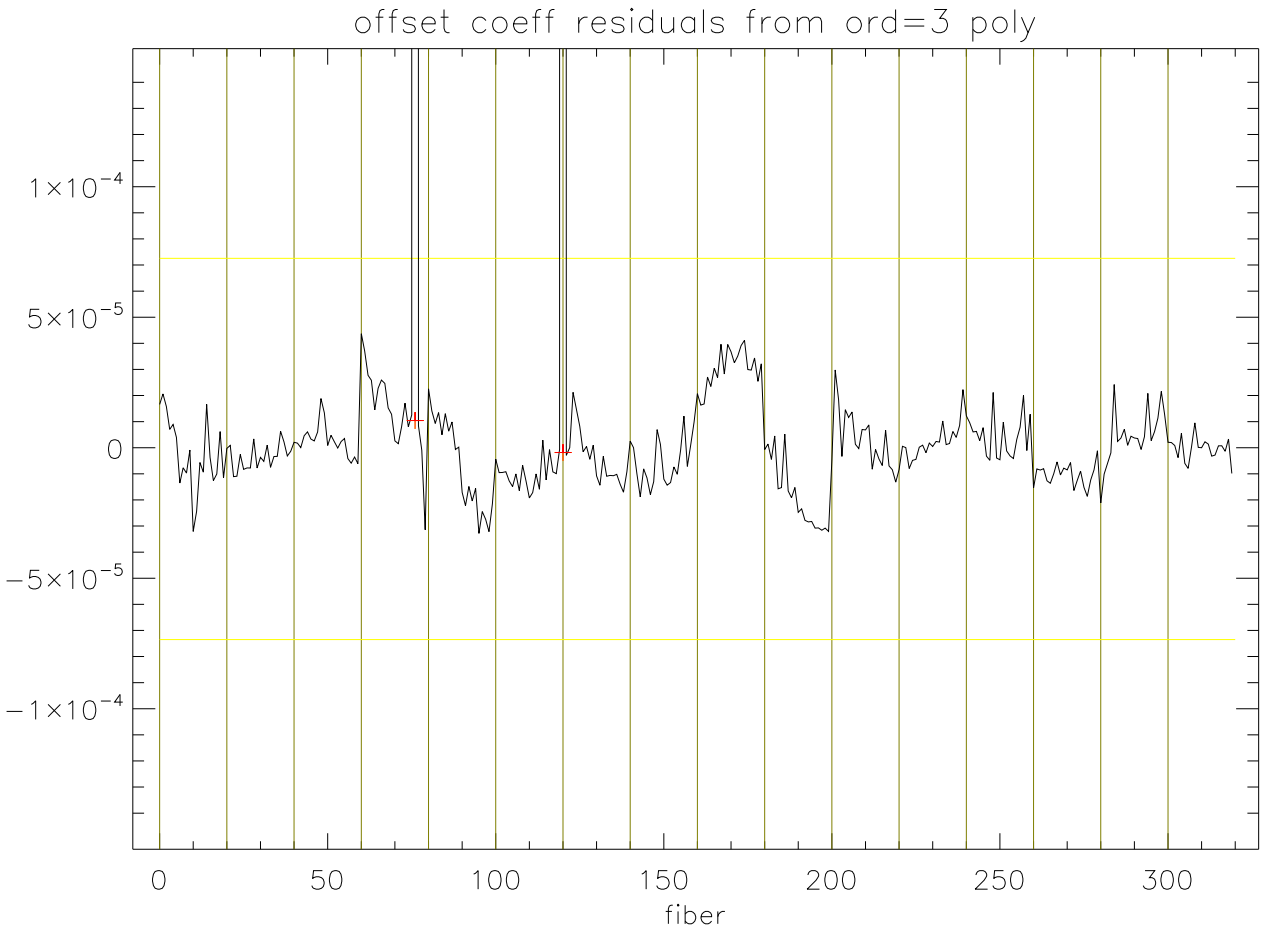

Number of sky fibers = 30
PLATE=2965 MJD=54594 sdR-b1-00052645.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

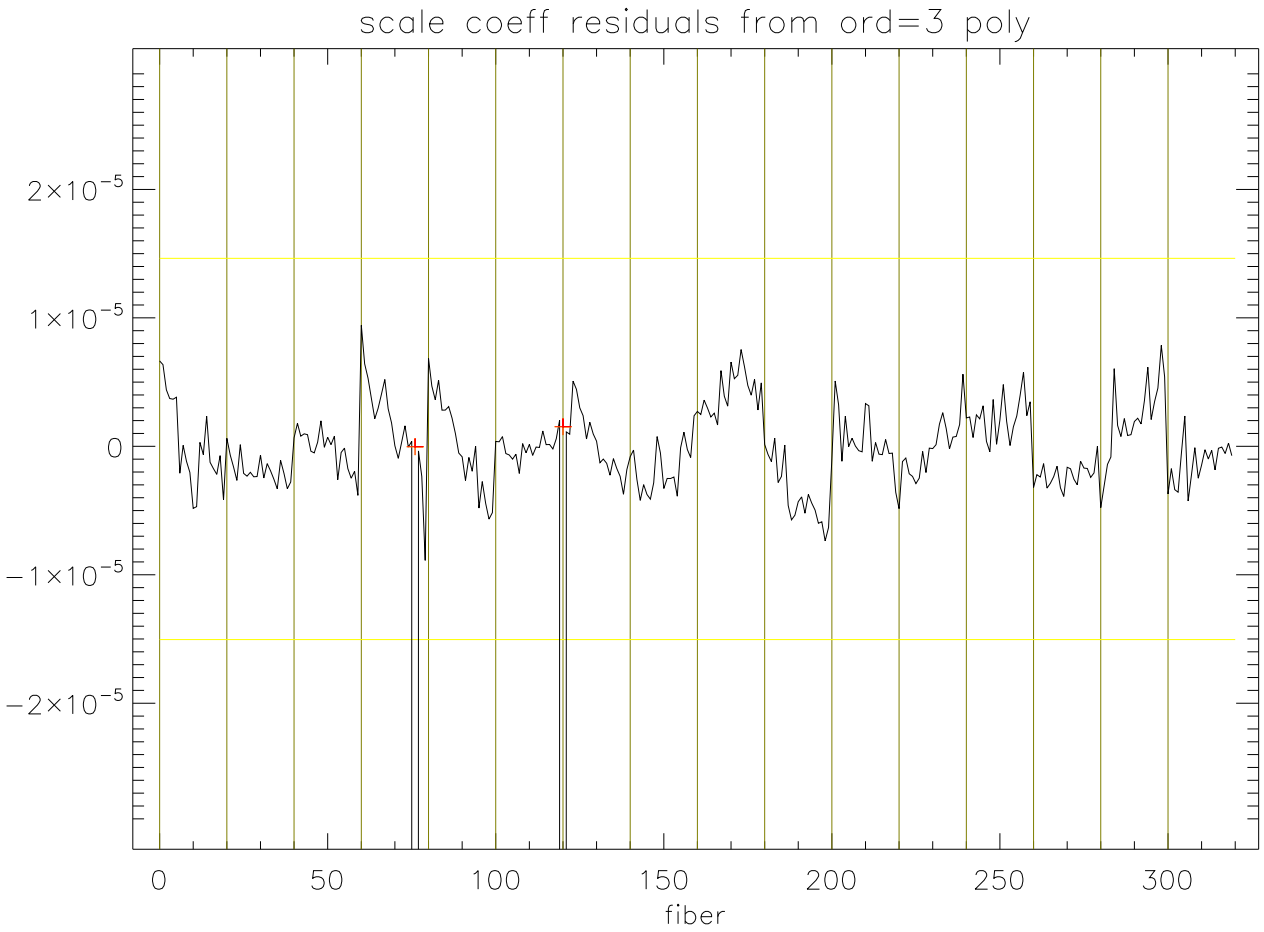

PLATE=2965 MJD=54594 sdR-b1-00052645.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 10.92 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

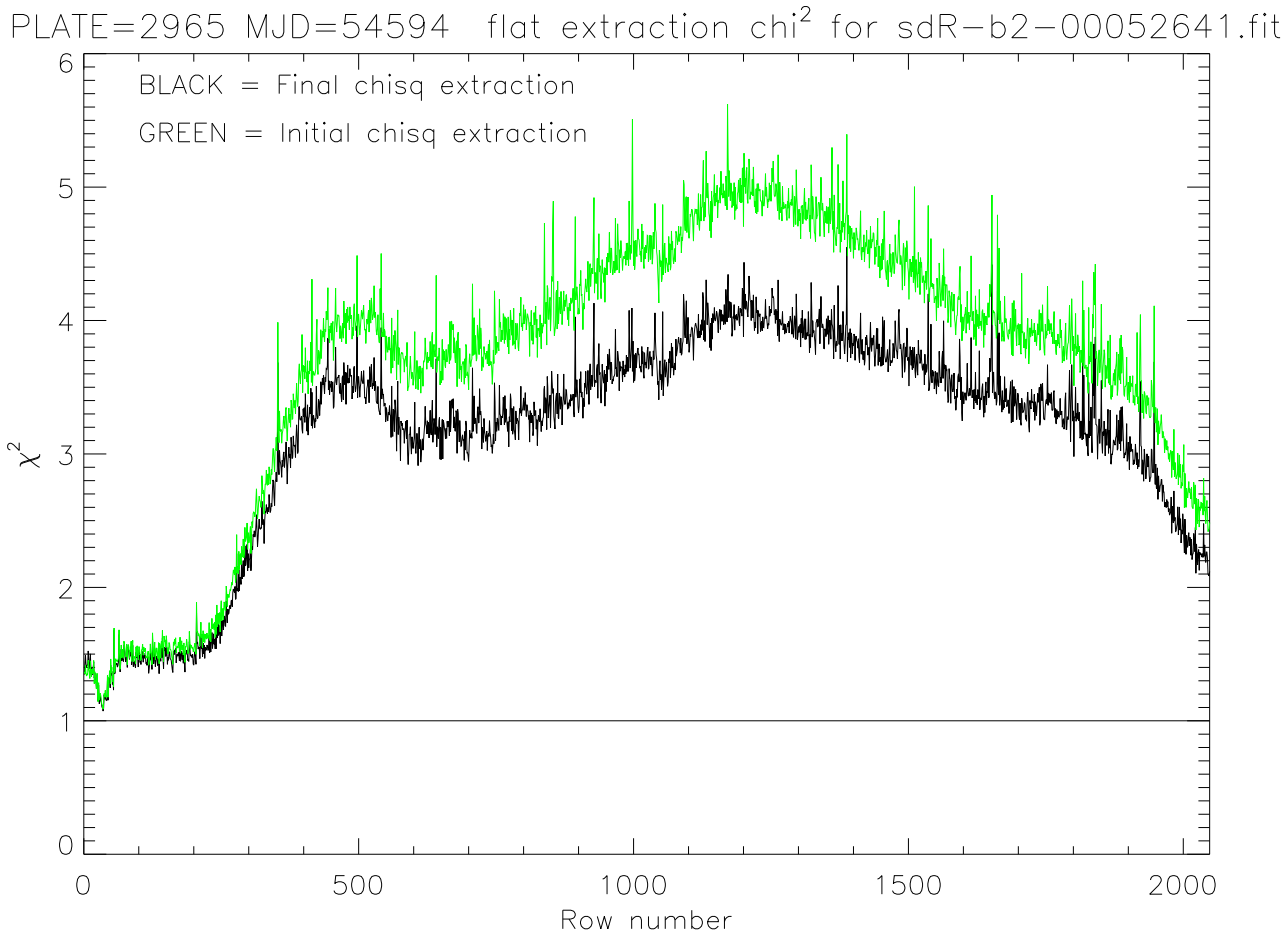

PLATE=2965 MJD=54594 sdR-b1-00052645.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.93 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

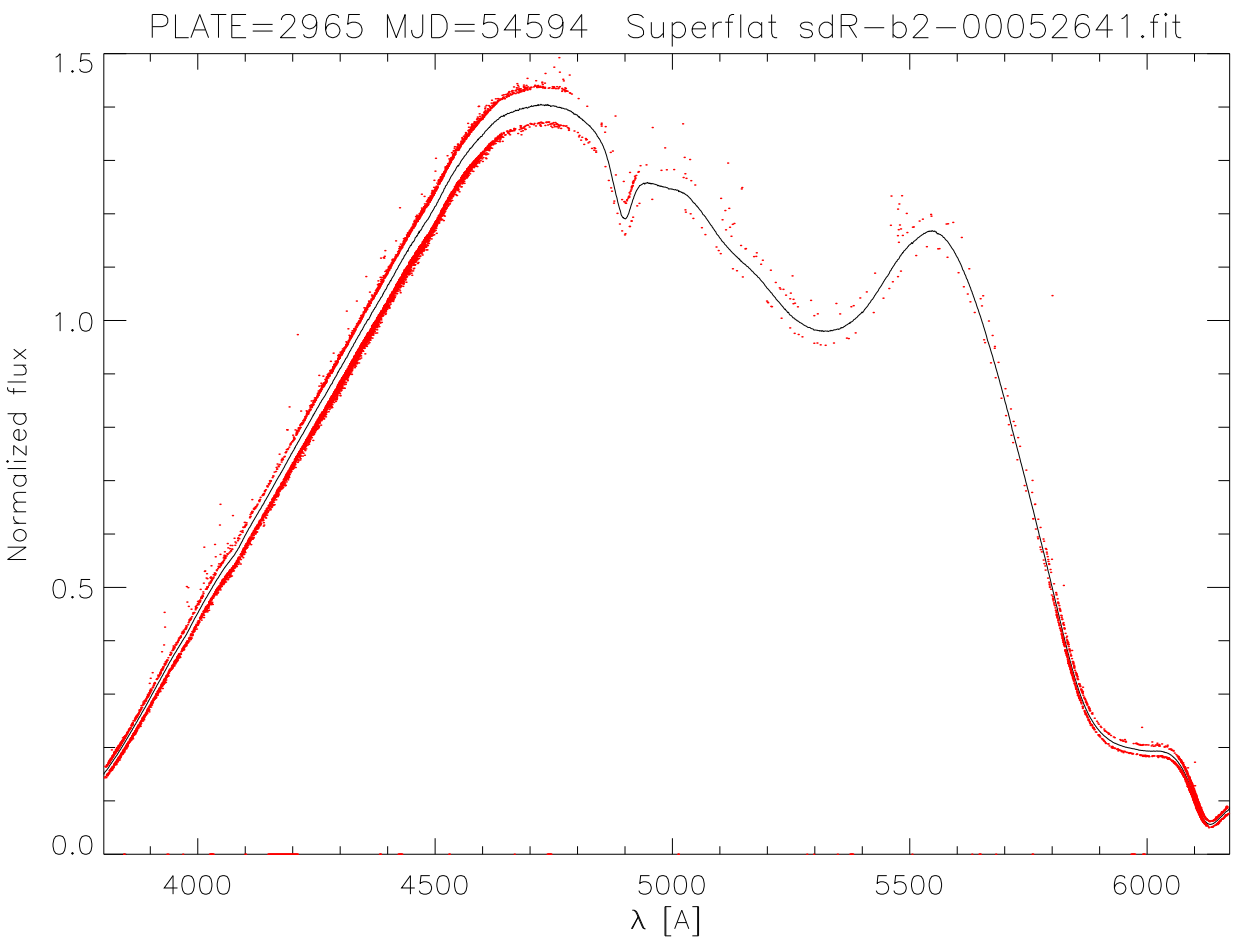

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

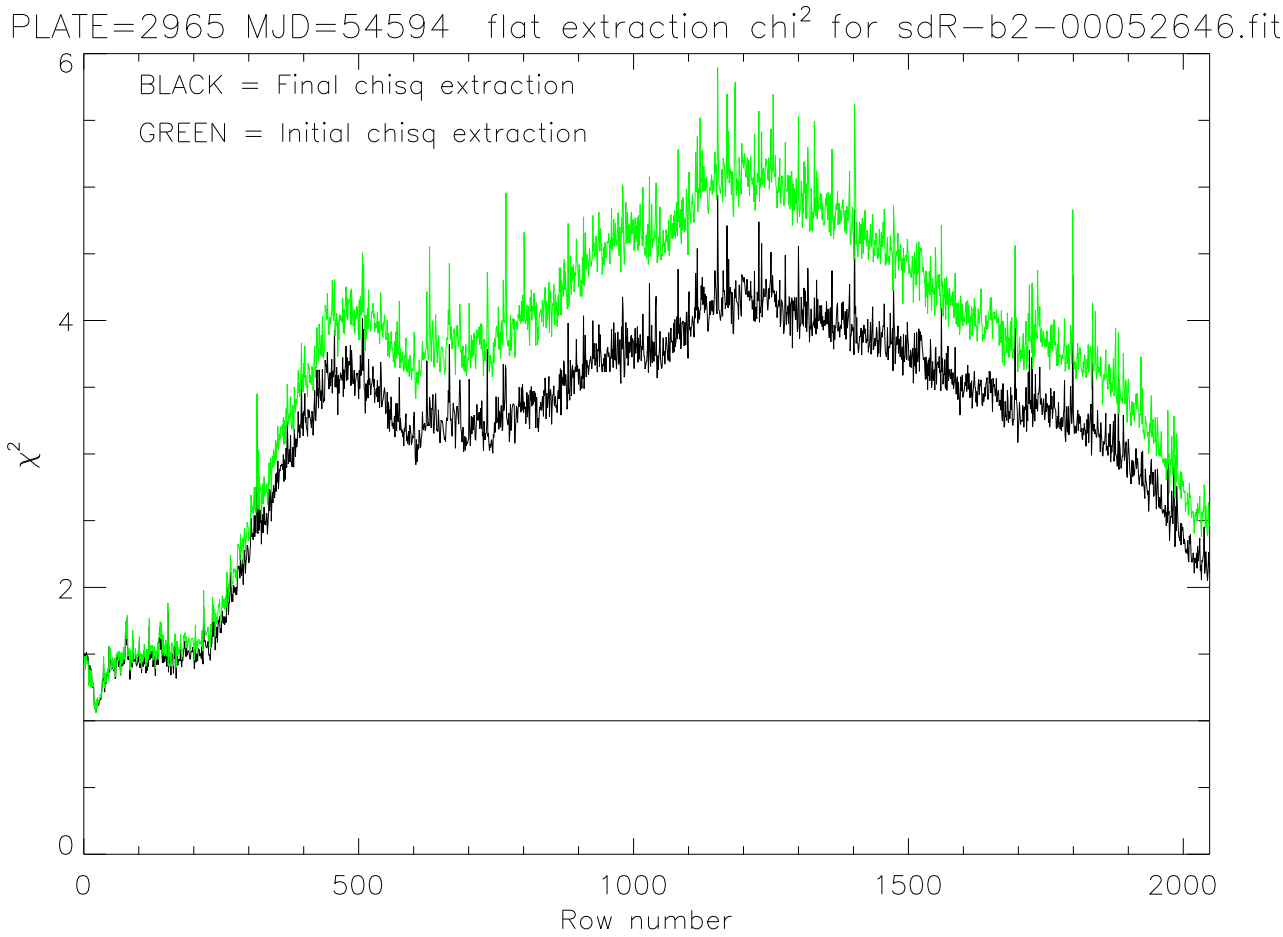

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

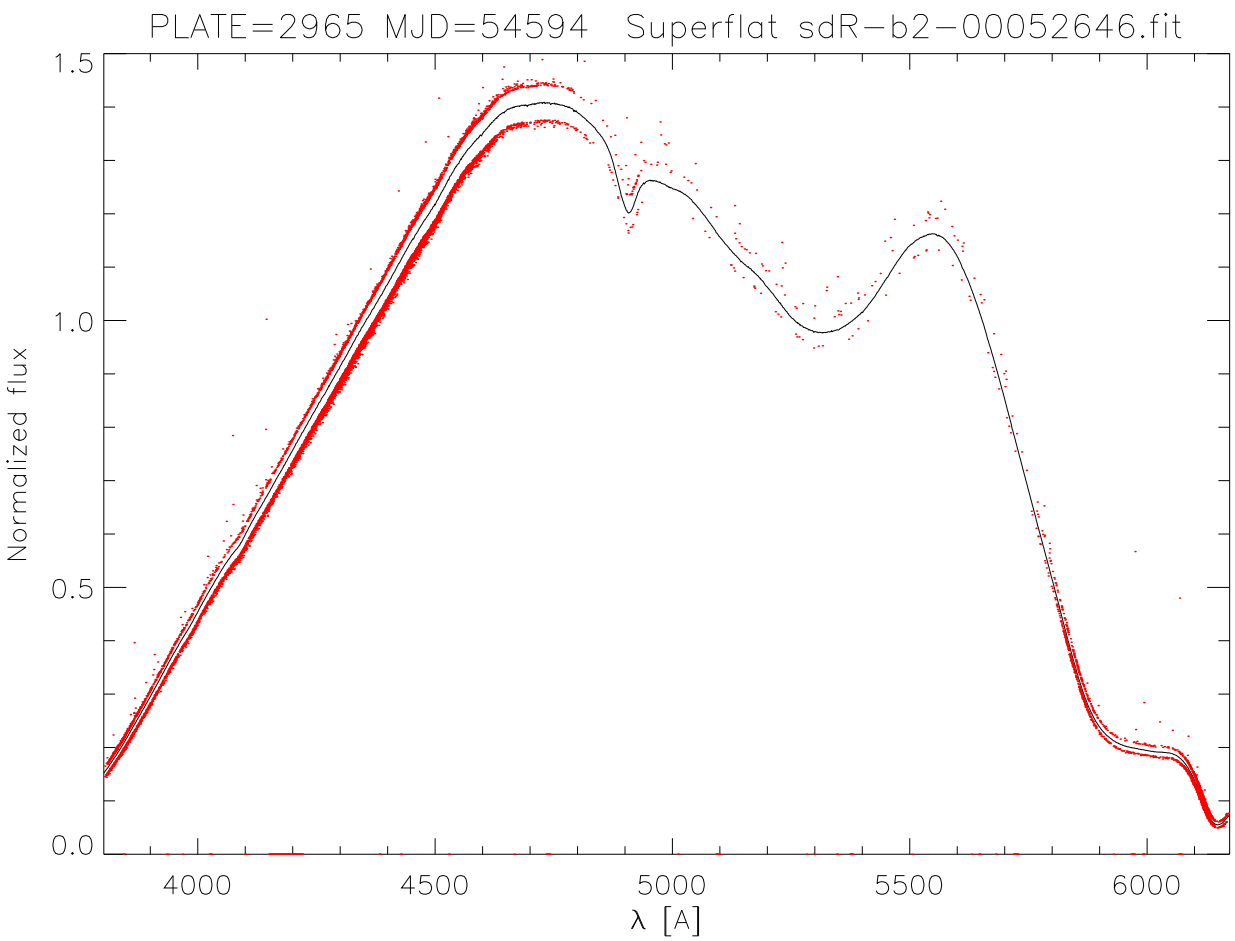

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

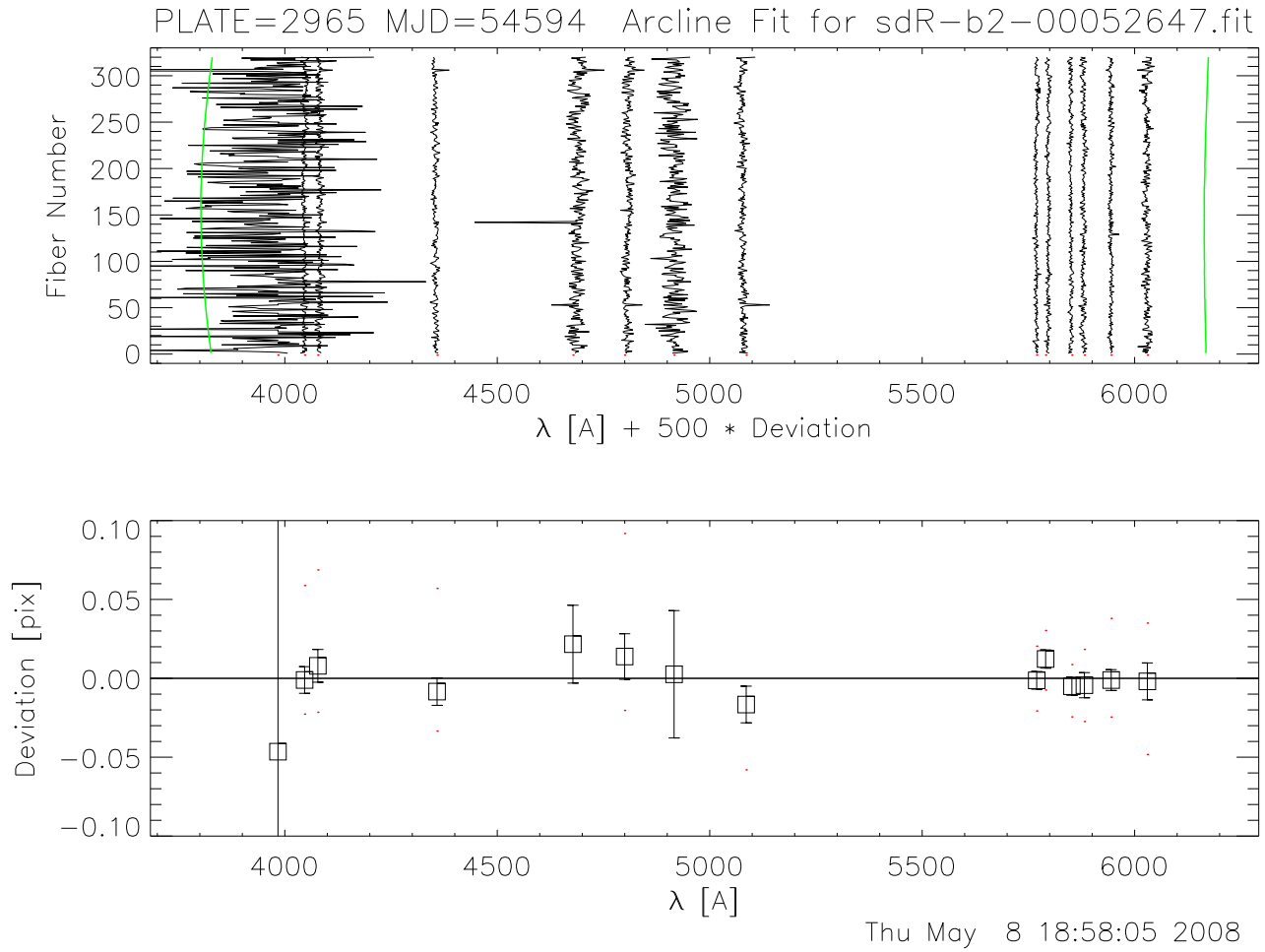

scale coeff residuals from ord=3 poly
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

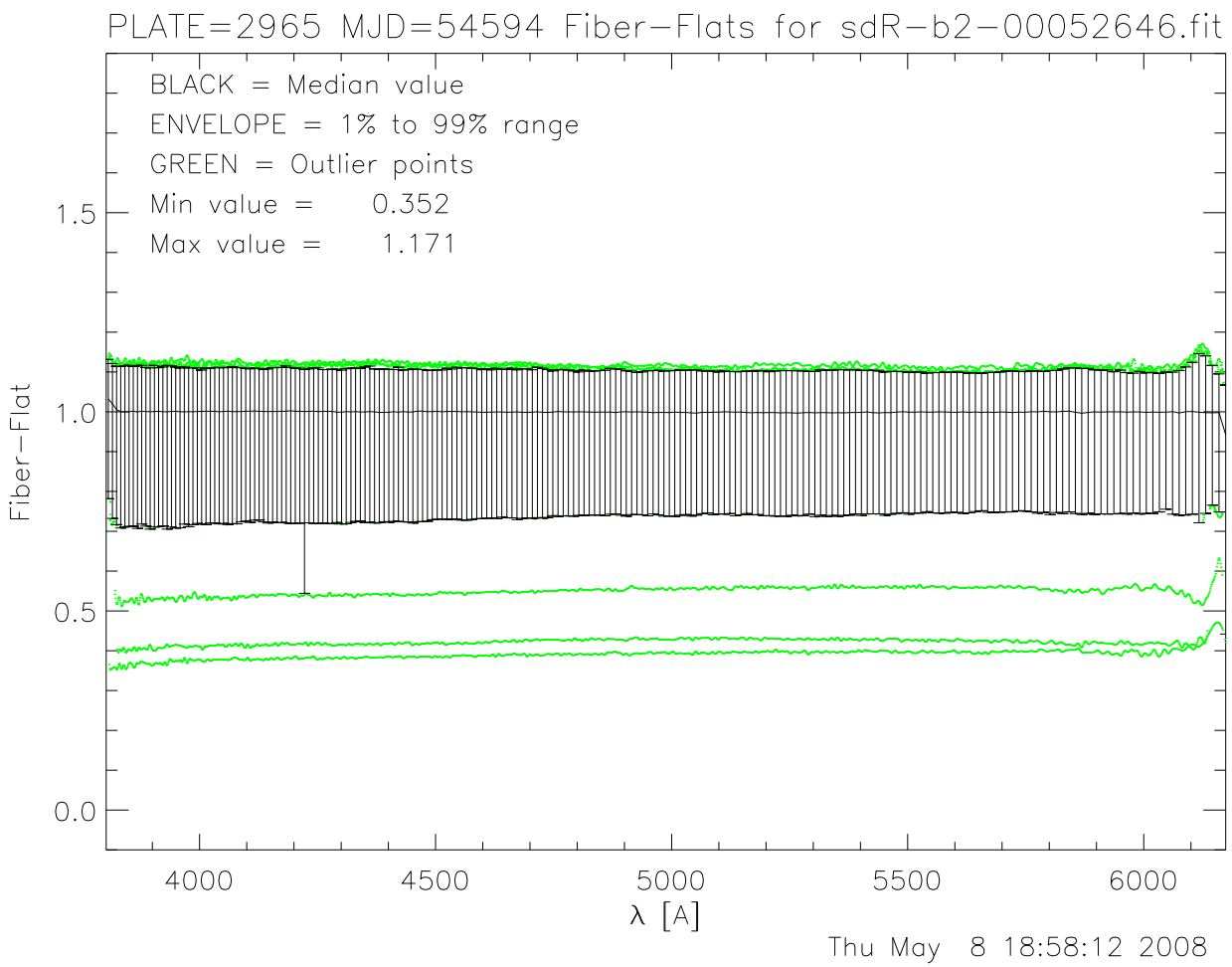

PLATE=2965 MJD=54594 flat extraction chi^2 for sdR−b2−00052641.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
6
0
500
1000
1500
2000

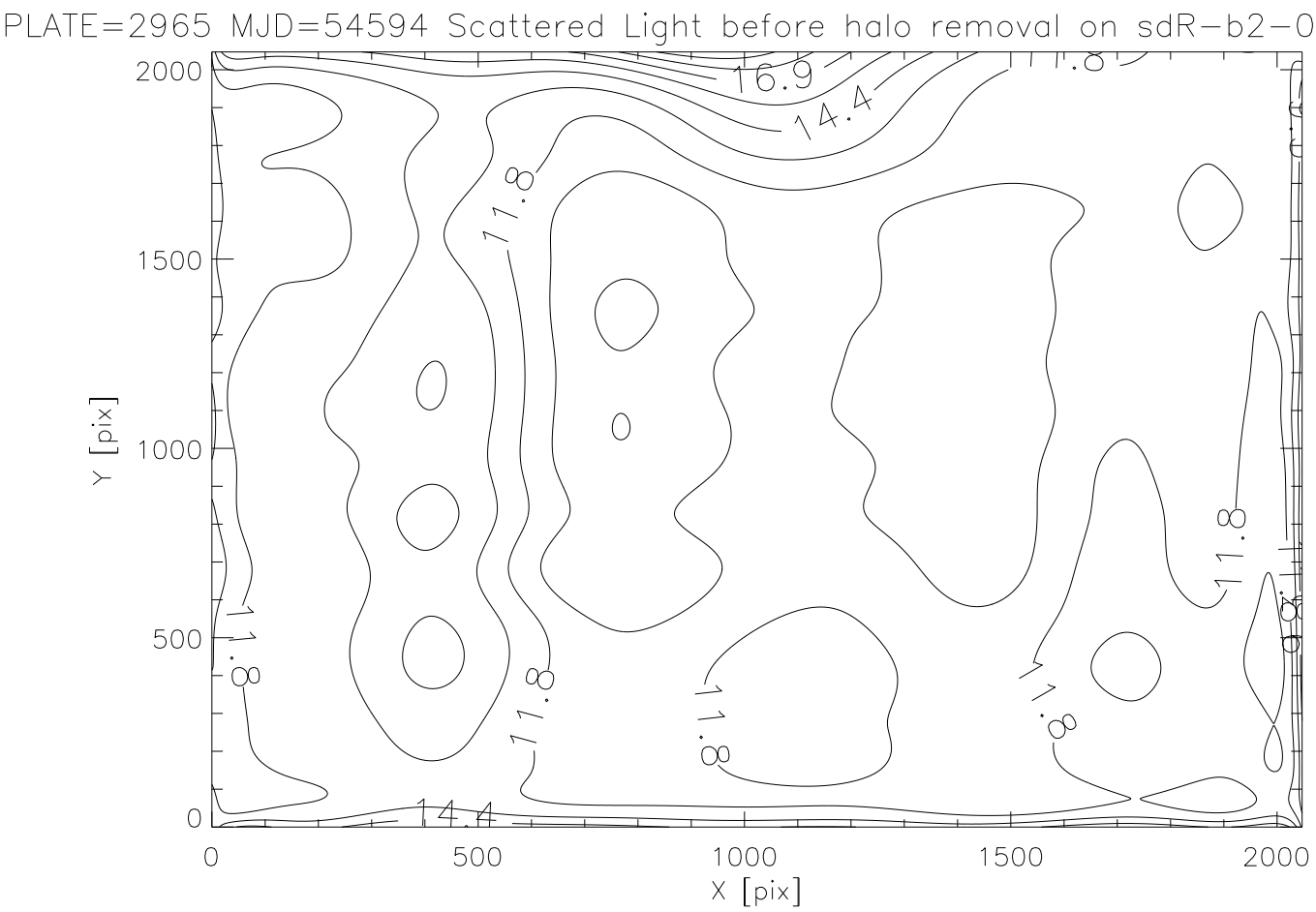

PLATE=2965 MJD=54594 Superflat sdR-b2-00052641.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

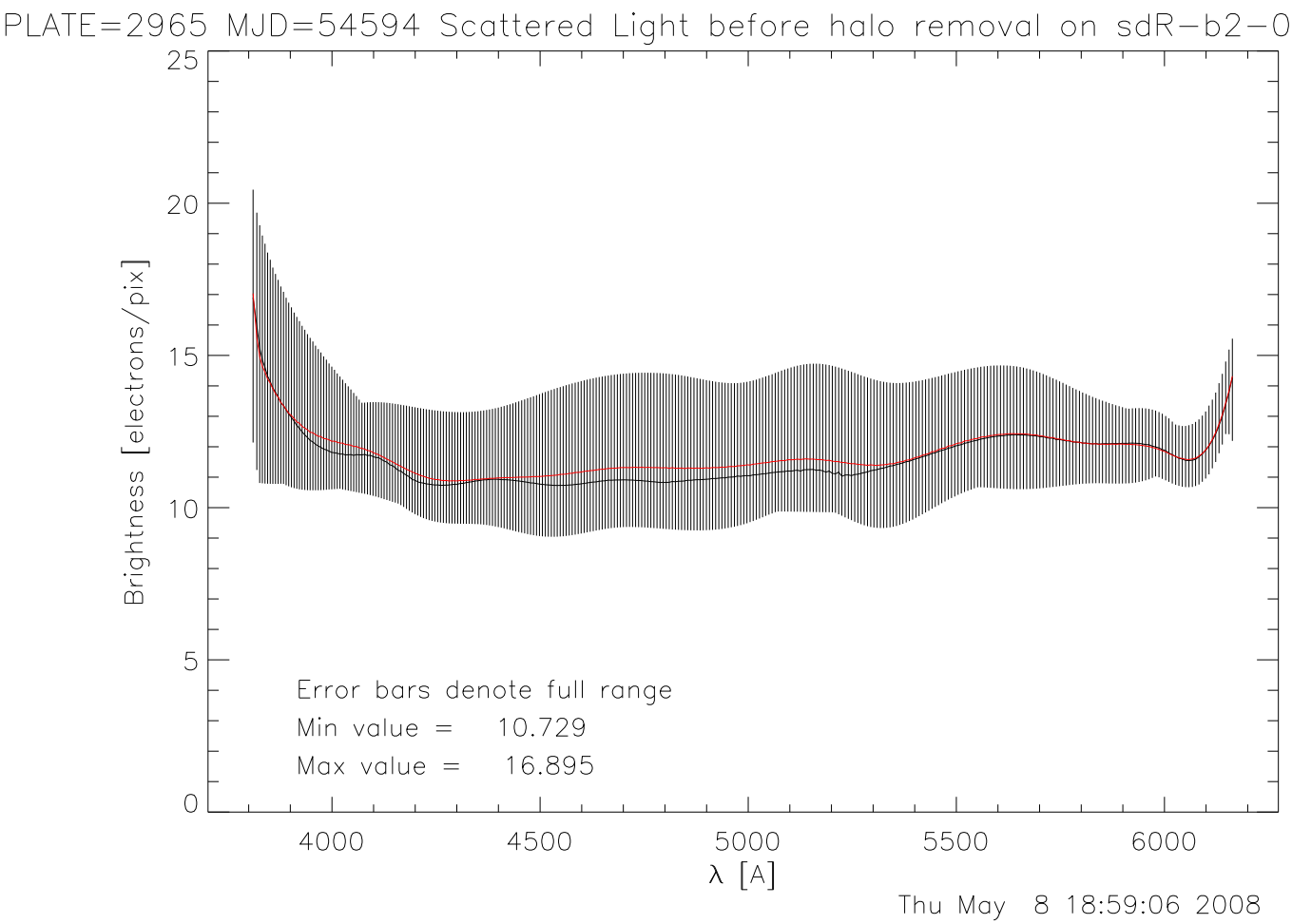

PLATE=2965 MJD=54594 flat extraction chi^2 for sdR−b2−00052646.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
0
500
1000
1500
2000
Row number

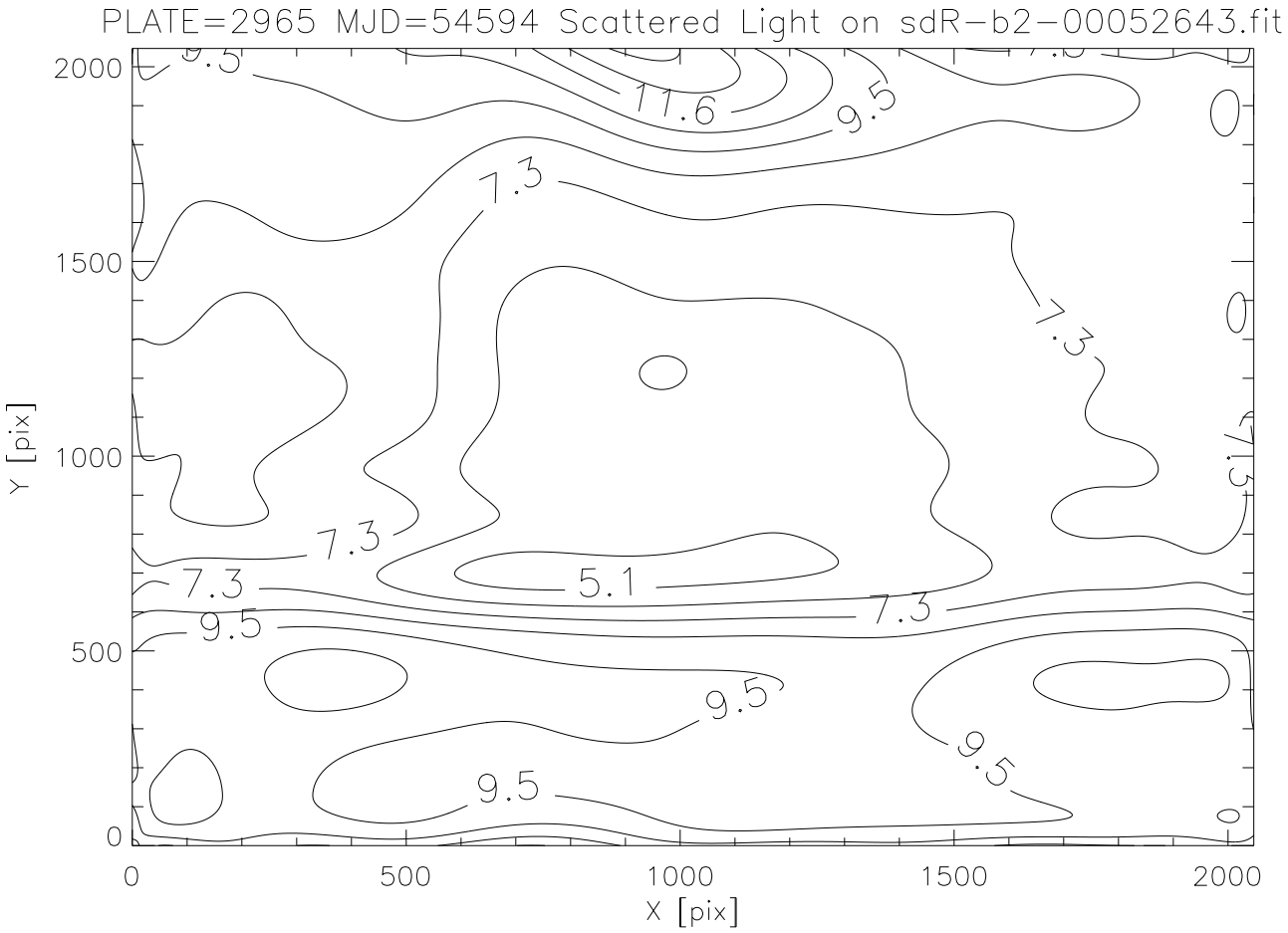

PLATE=2965 MJD=54594 Superflat sdR-b2-00052646.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

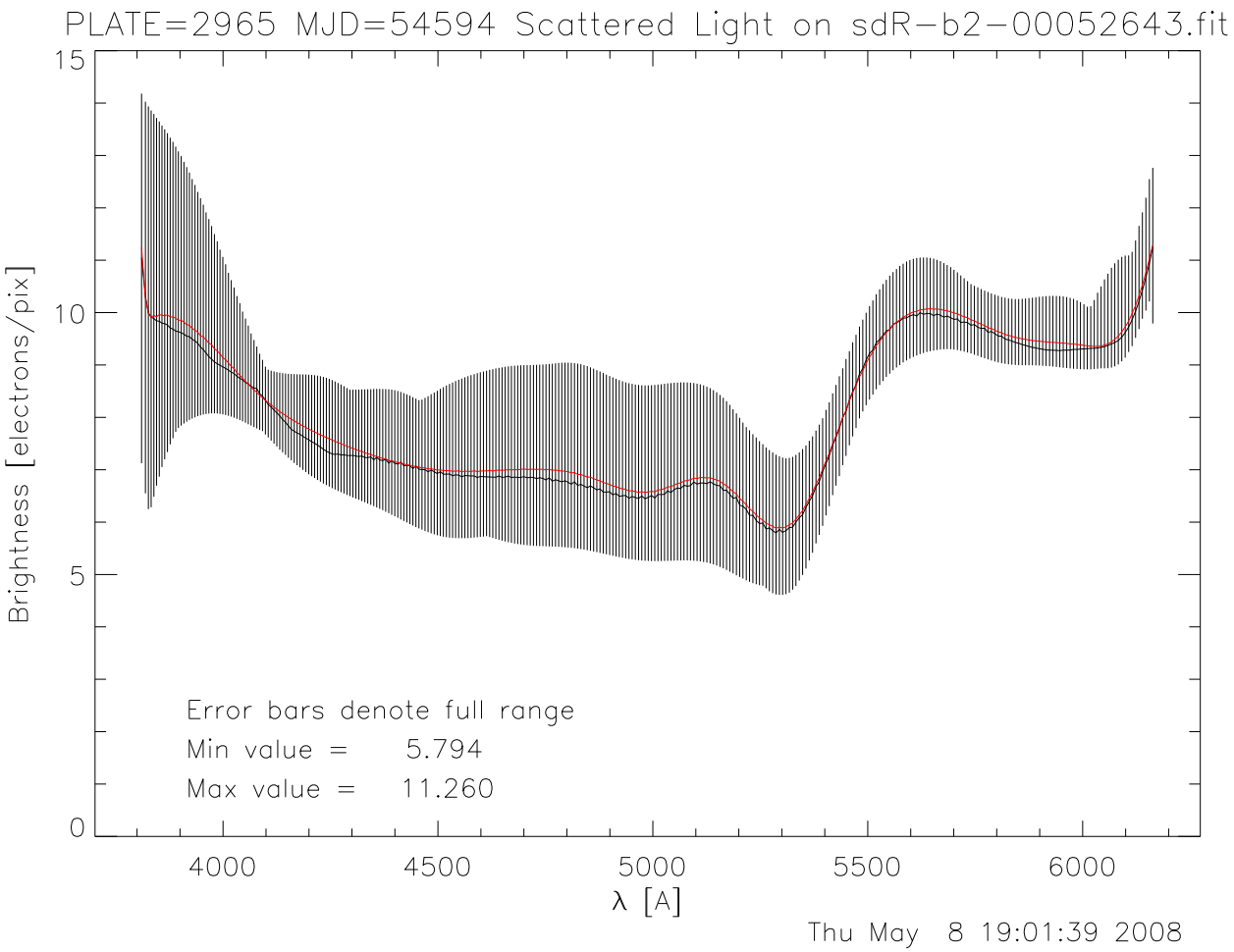

PLATE=2965 MJD=54594 Arcline Fit for sdR-b2-00052647.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Thu May 8 18:58:05 2008

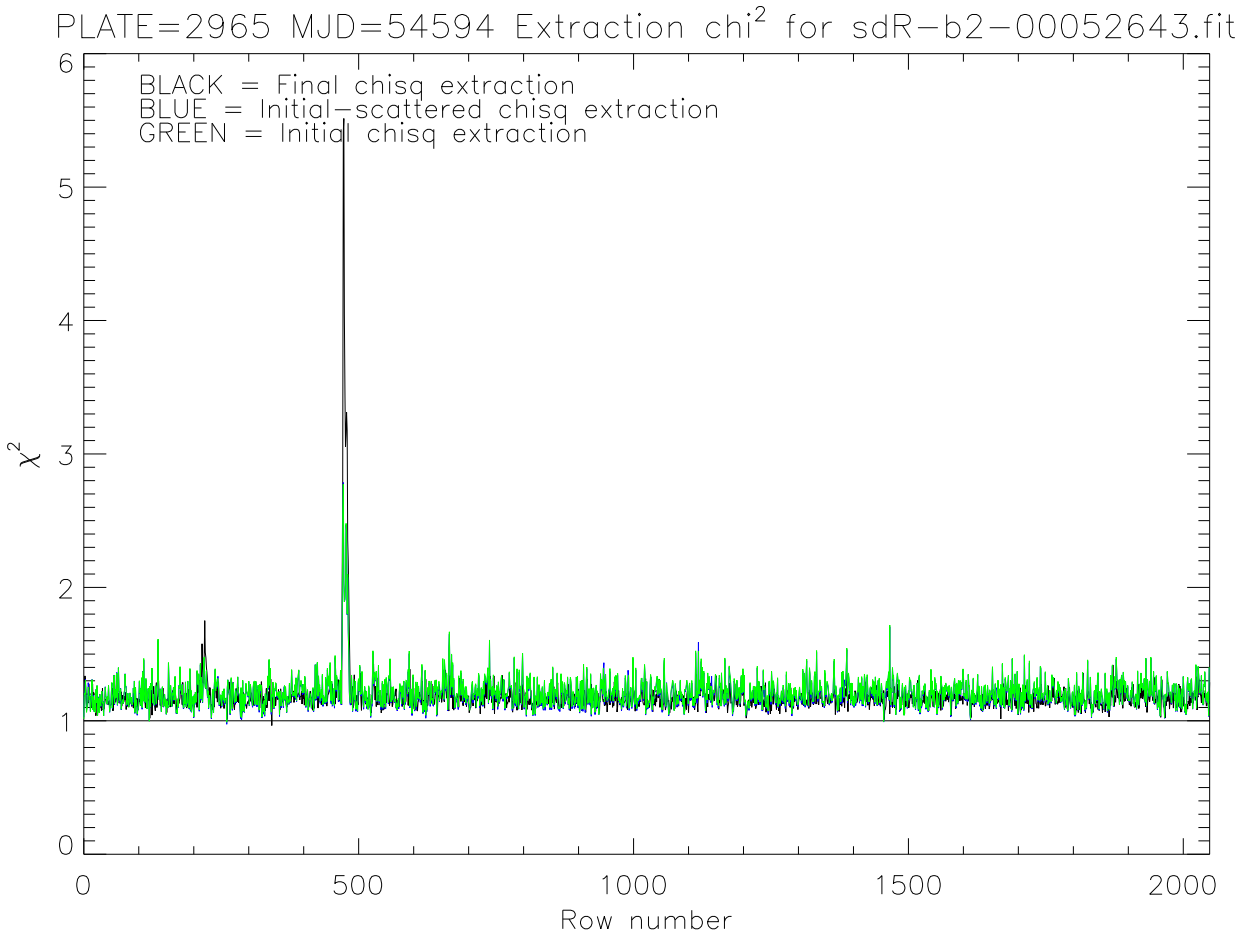

PLATE=2965 MJD=54594 Fiber-Flats for sdR-b2-00052646.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.352
Max value = 1.171
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Thu May 8 18:58:12 2008

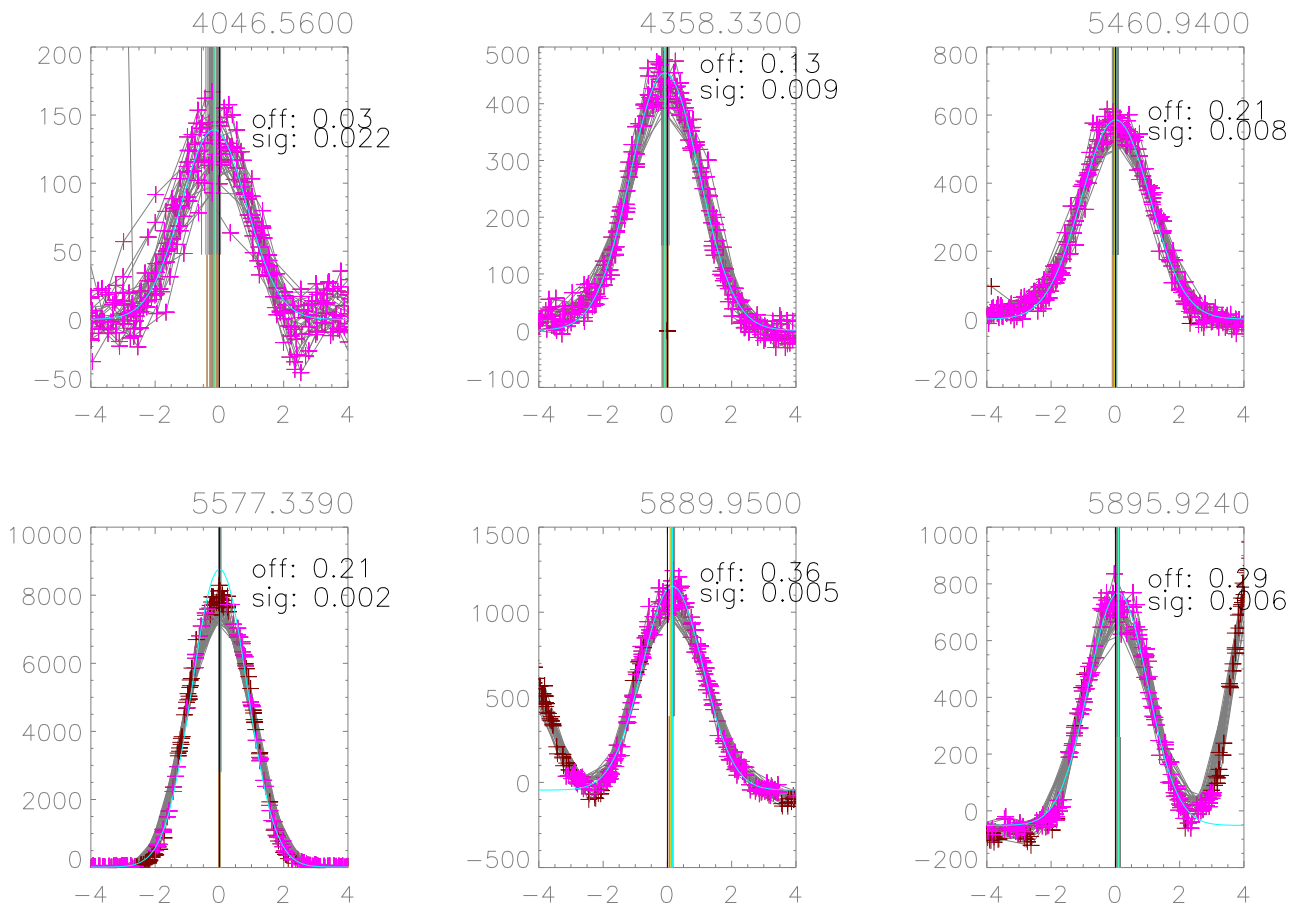

PLATE=2965 MJD=54594 Scattered Light before halo removal on sdR−b2−00052643.f
16.9
14.4
11.8
0
14.4
Y [pix]
X [pix]
0
500
1000
1500
2000

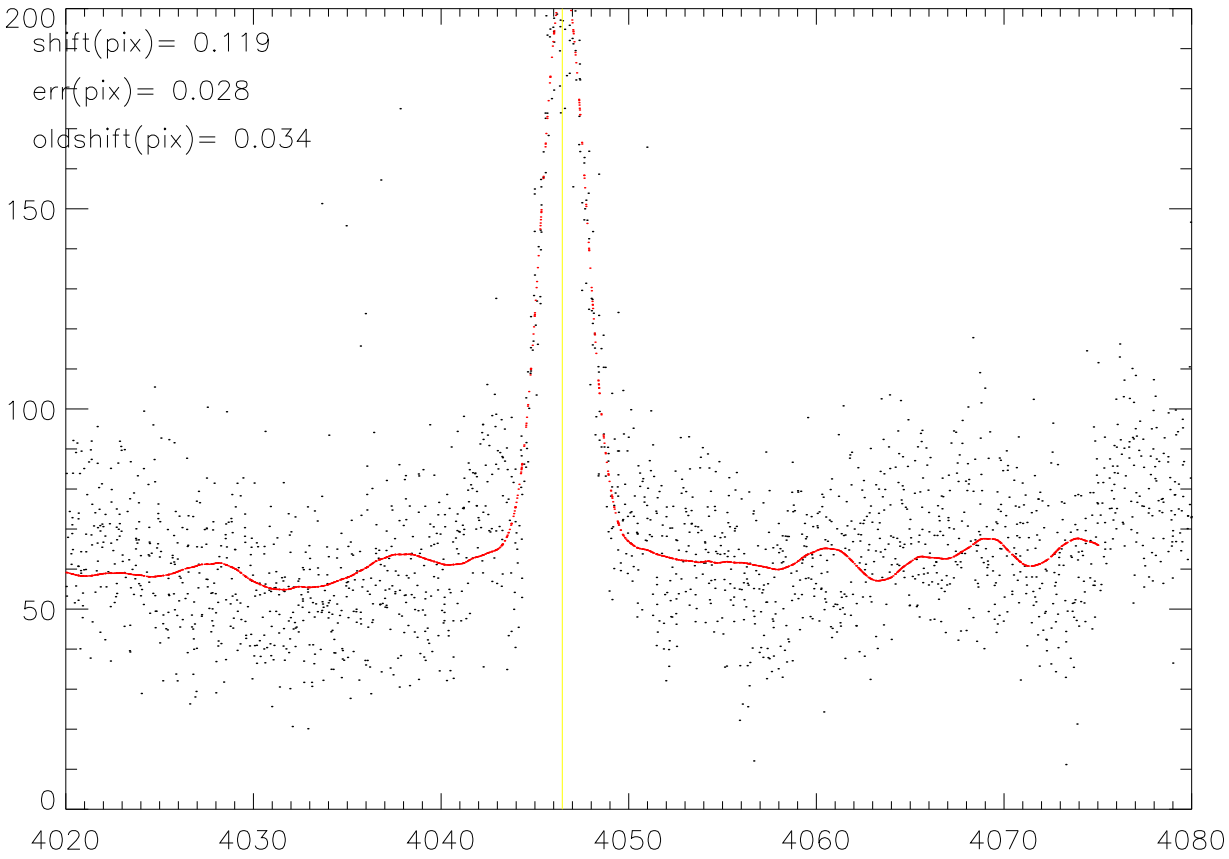

PLATE=2965 MJD=54594 Scattered Light before halo removal on sdR-b2-00052643.f
Brightness [electrons/pix]
25
20
15
10
5
0
Error bars denote full range
Min value = 10.729
Max value = 16.895
4000
4500
5000
5500
6000
λ [A]
Thu May 8 18:59:06 2008

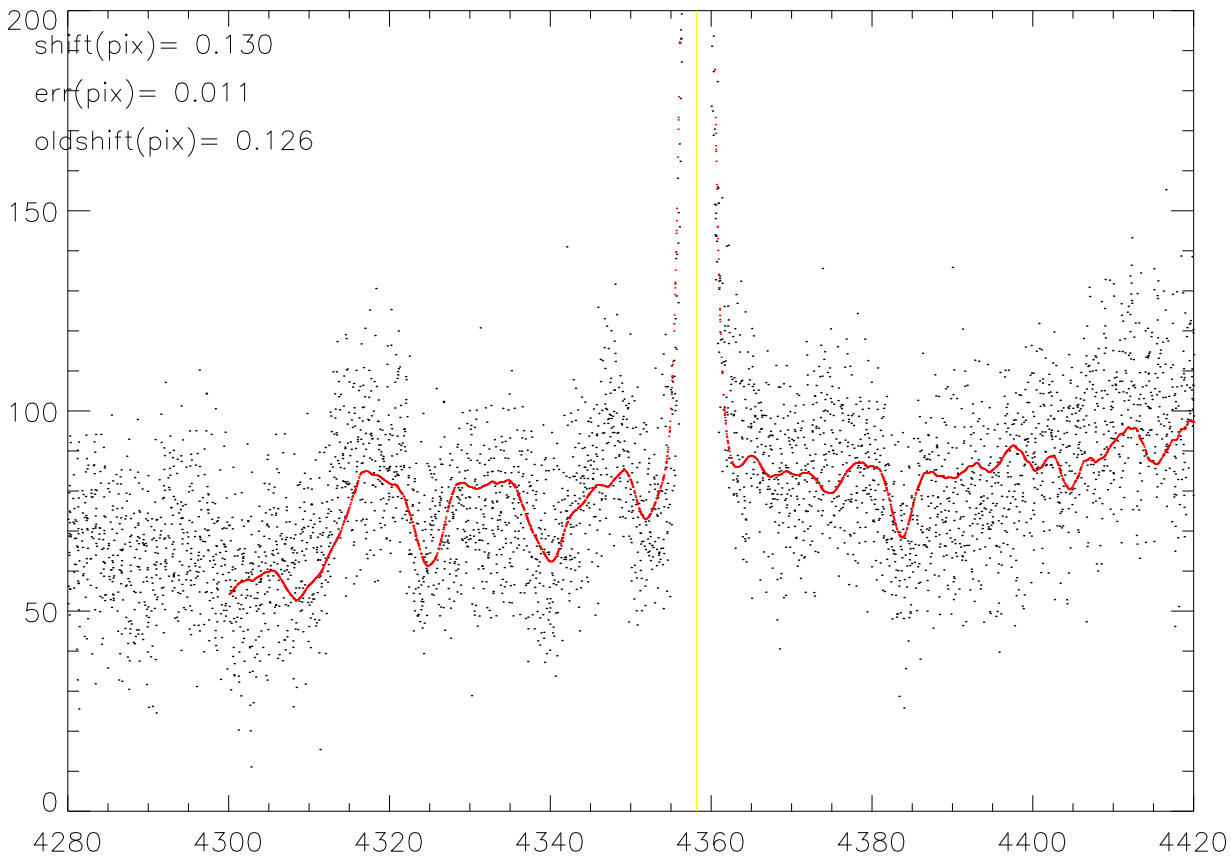

PLATE=2965 MJD=54594 Scattered Light on sdR-b2-00052643.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
11.6
9.5
7.3
5.1

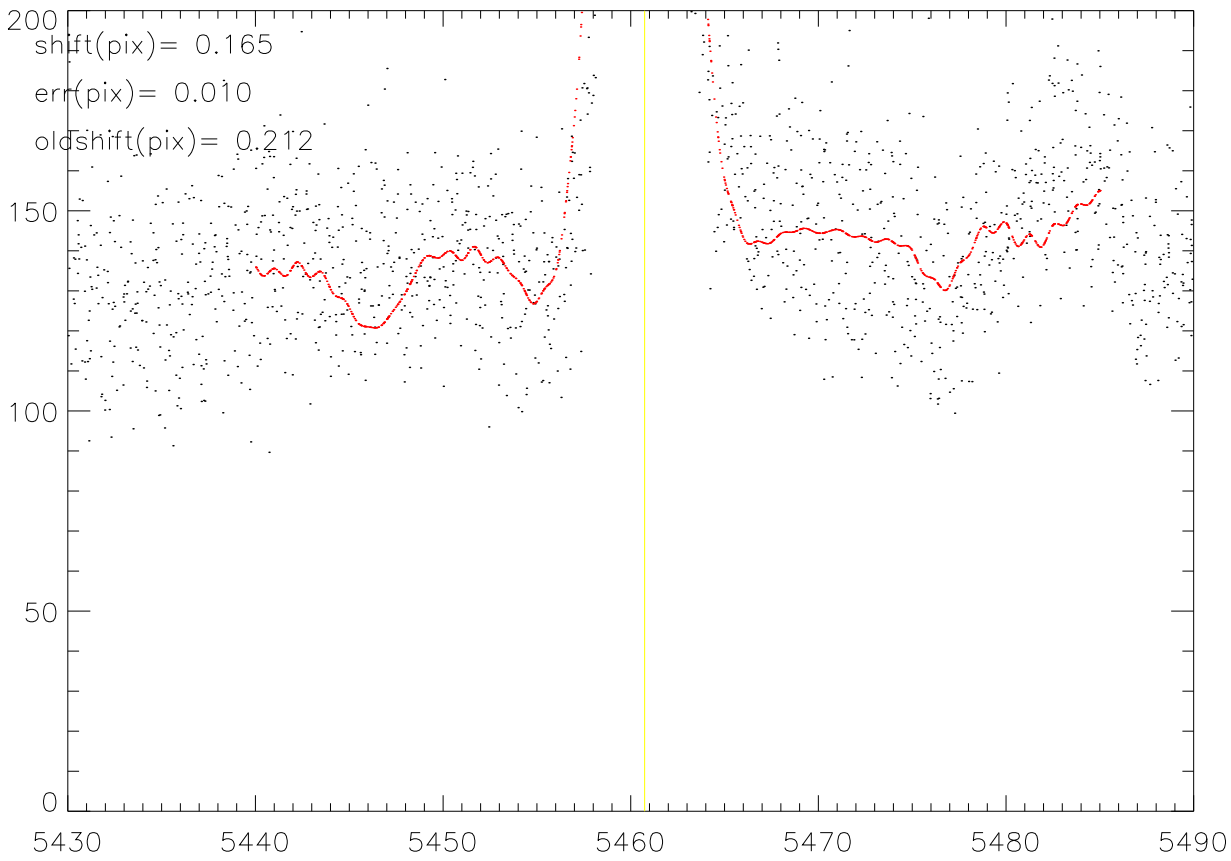

PLATE=2965 MJD=54594 Scattered Light on sdR-b2-00052643.fit
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 5.794
Max value = 11.260
Thu May 8 19:01:39 2008

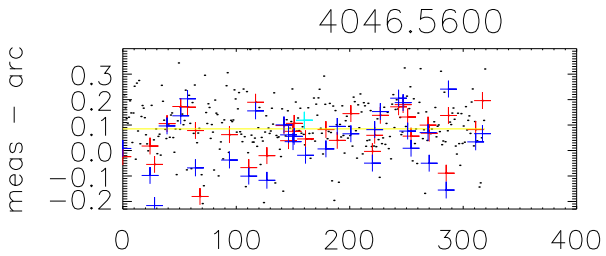

PLATE=2965 MJD=54594 Extraction chi^2 for sdR-b2-00052643.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

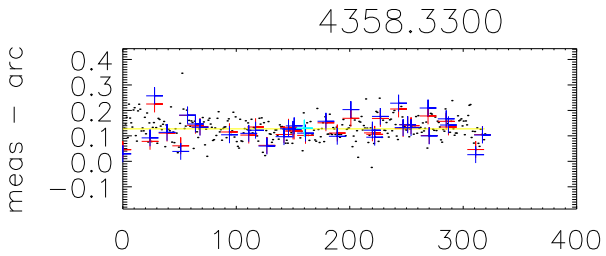

4046.5600
off: 0.03
sig: 0.022
4358.3300
off: 0.13
sig: 0.009
5460.9400
off: 0.21
sig: 0.008
5577.3390
off: 0.21
sig: 0.002
5889.9500
off: 0.36
sig: 0.005
5895.9240
off: 0.29
sig: 0.006

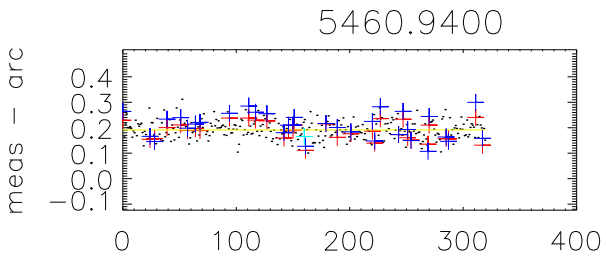

shift(pix)= 0.119
err(pix)= 0.028
oldshift(pix)= 0.034
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

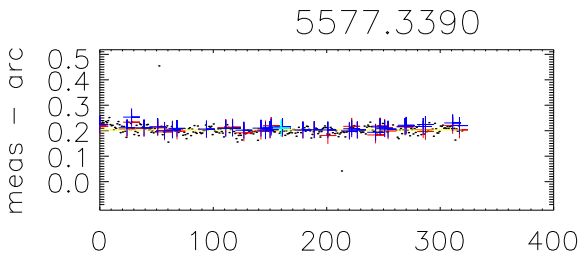

shift(pix)= 0.130
err(pix)= 0.011
oldshift(pix)= 0.126
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

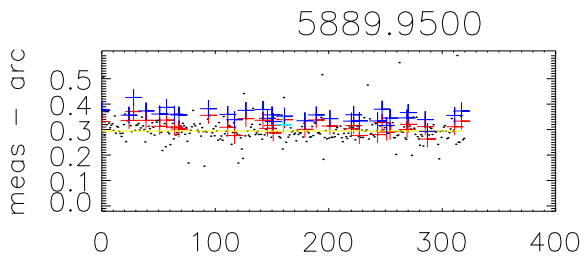

shift(pix)= 0.165
err(pix)= 0.010
oldshift(pix)= 0.212
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

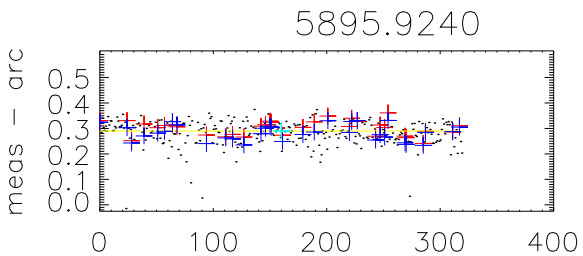

4046.5600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

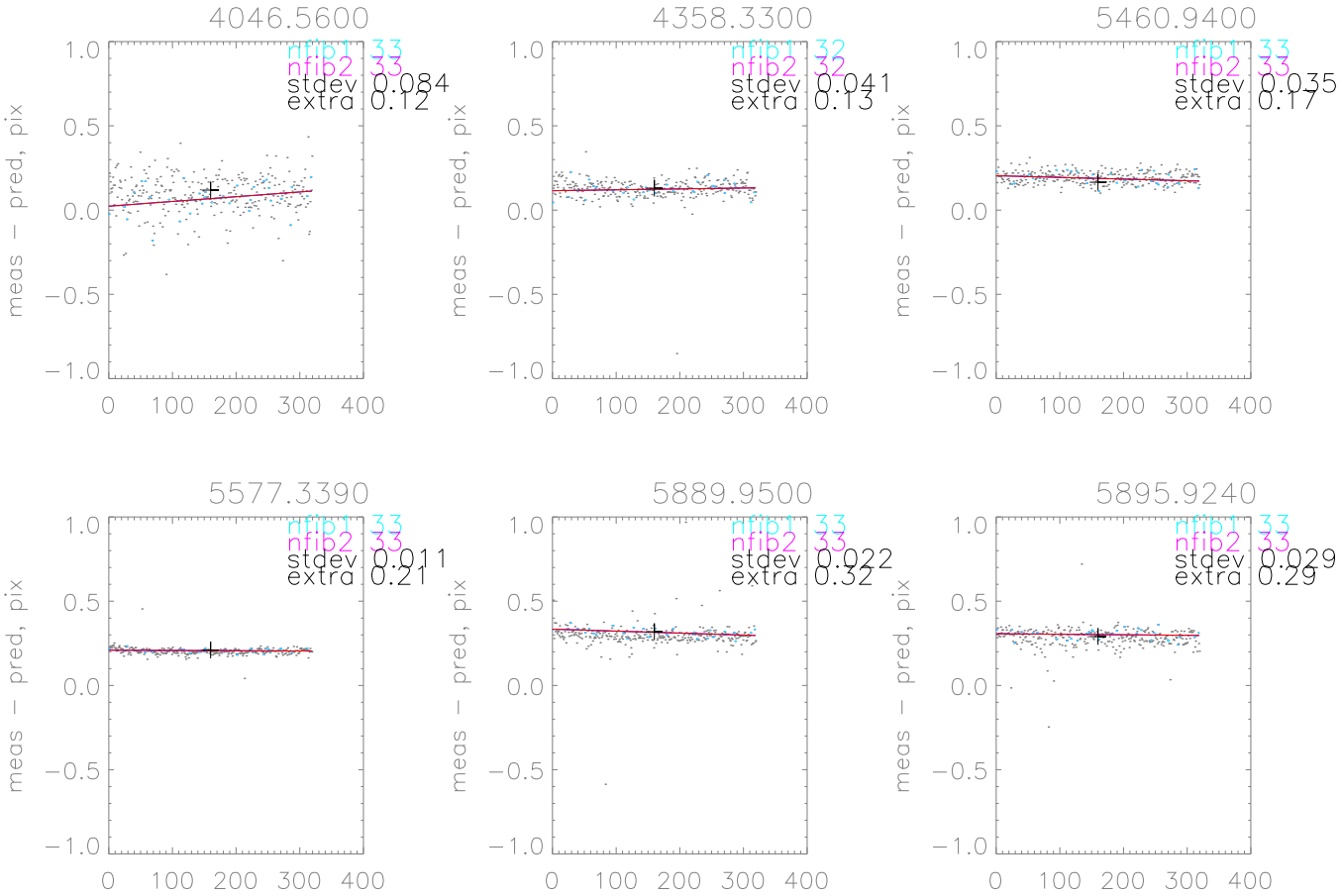

4358.3300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

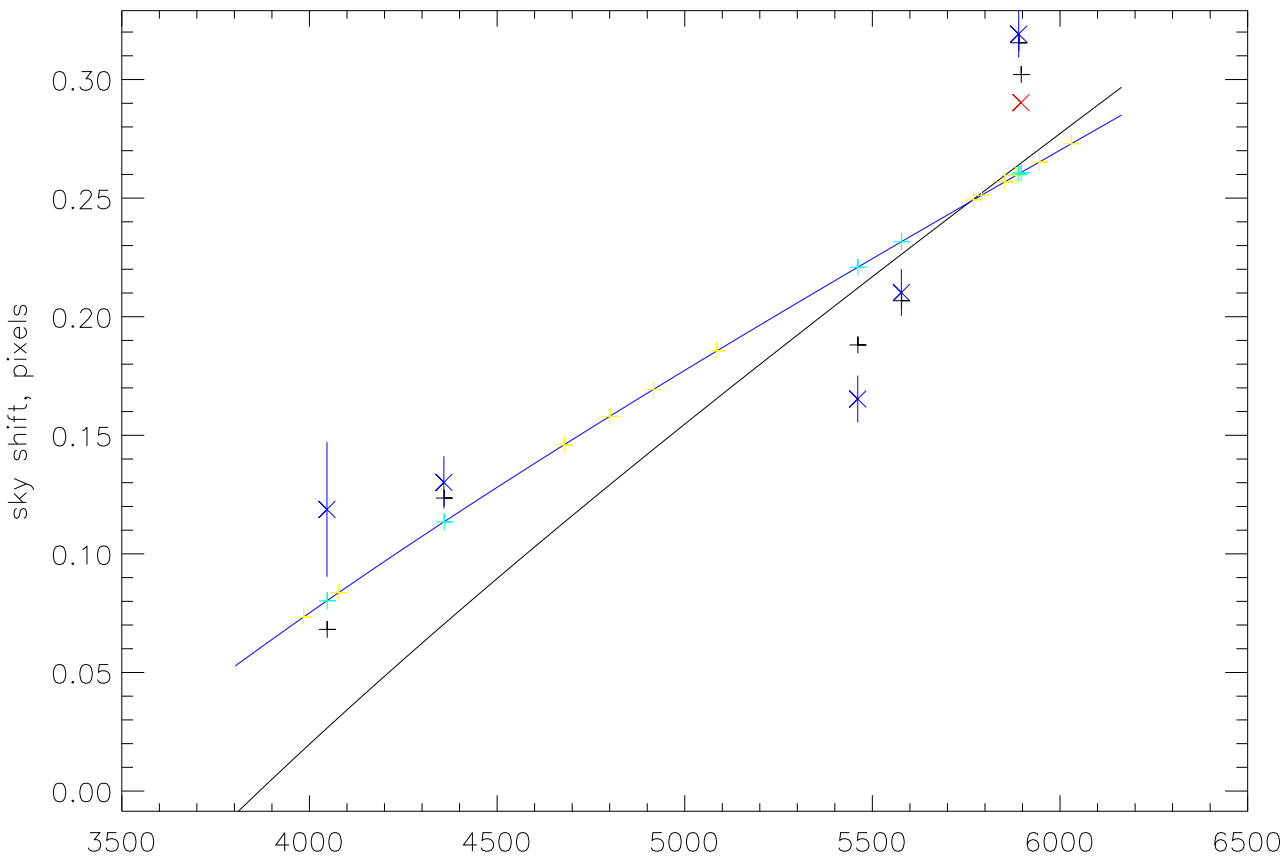

5460.9400
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

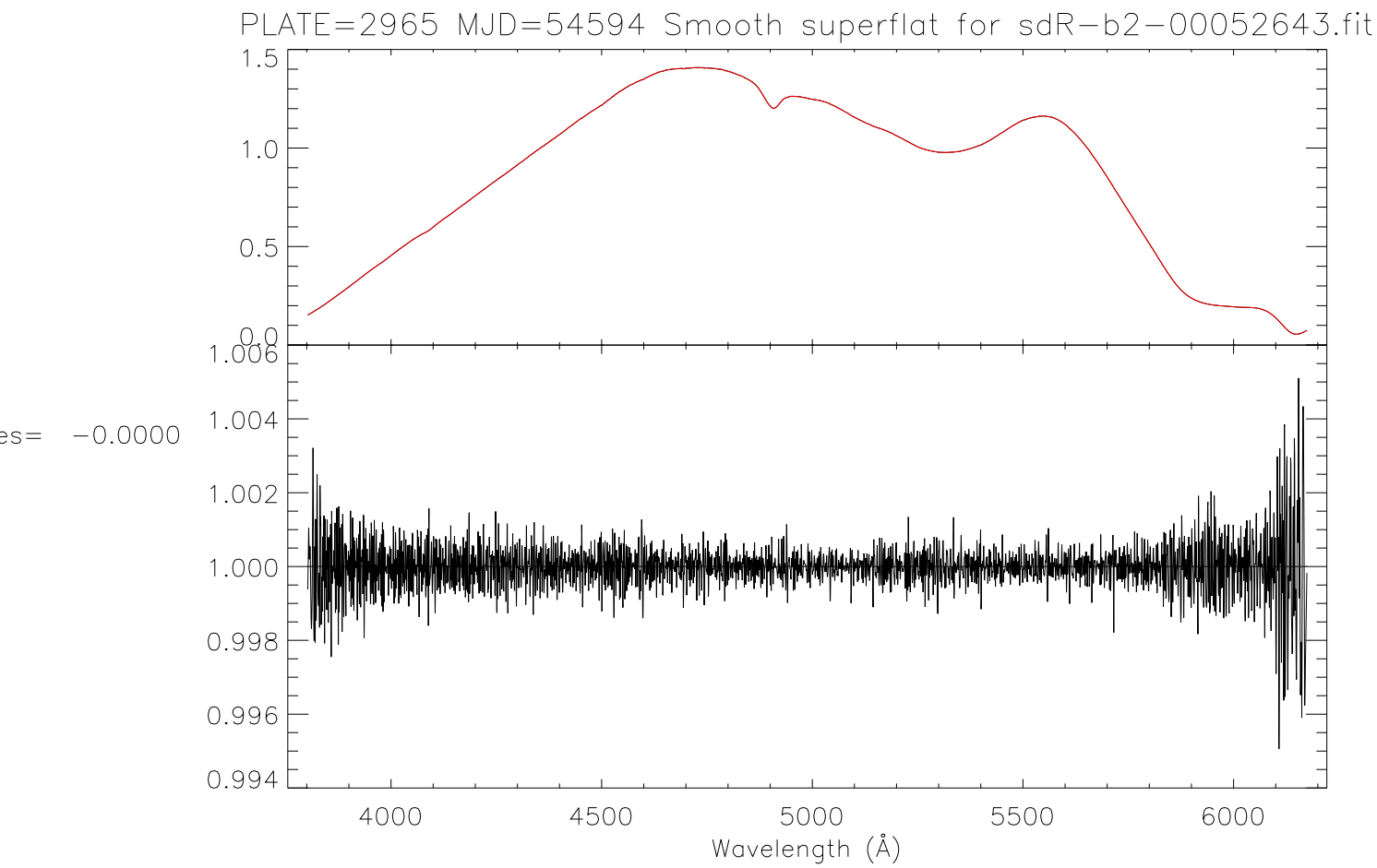

5577.3390
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

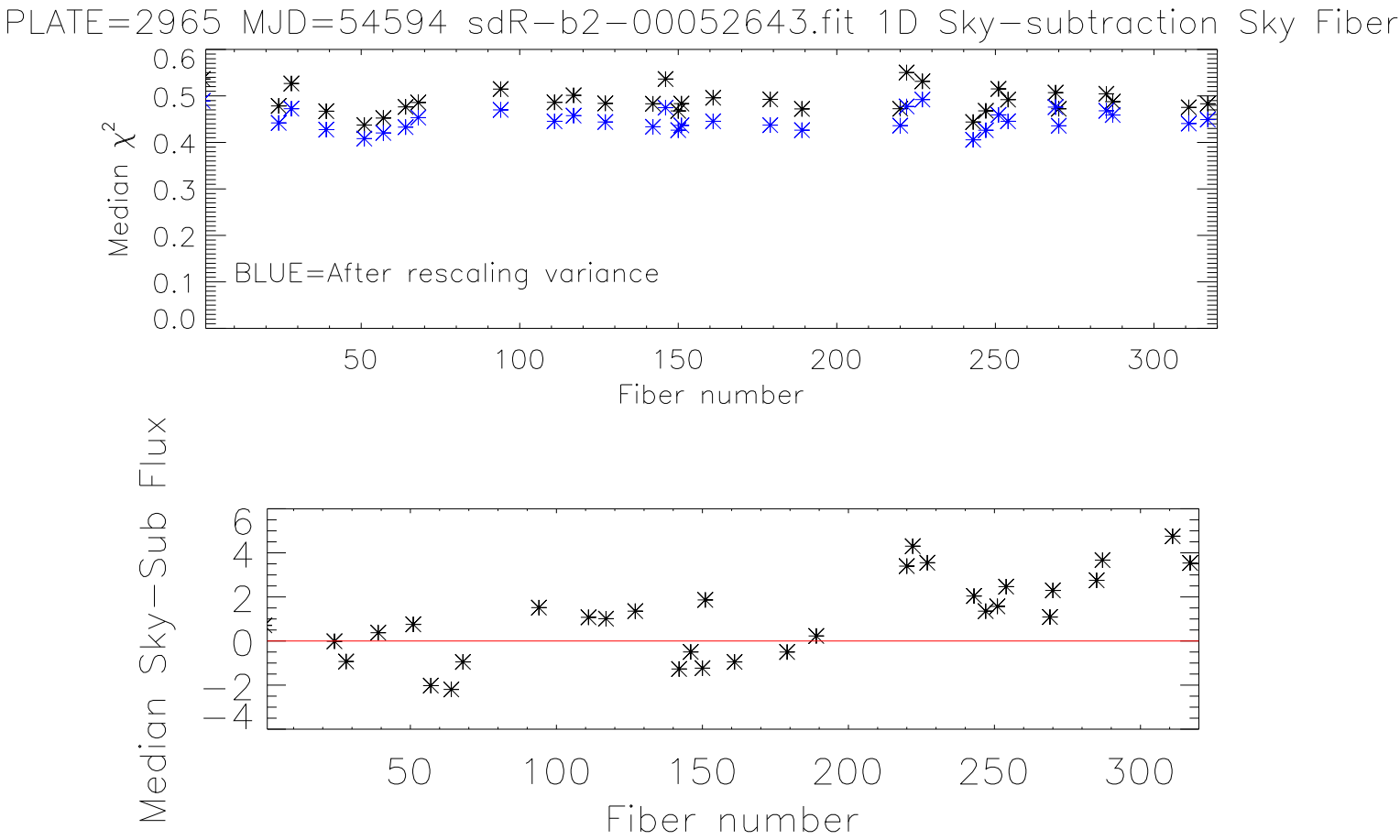

5889.9500
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

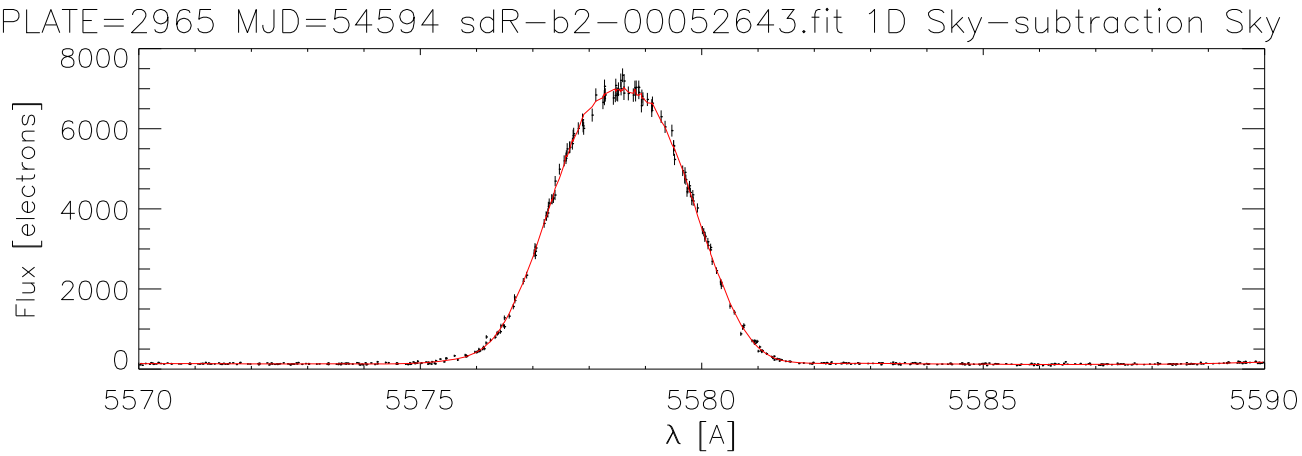

5895.9240
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

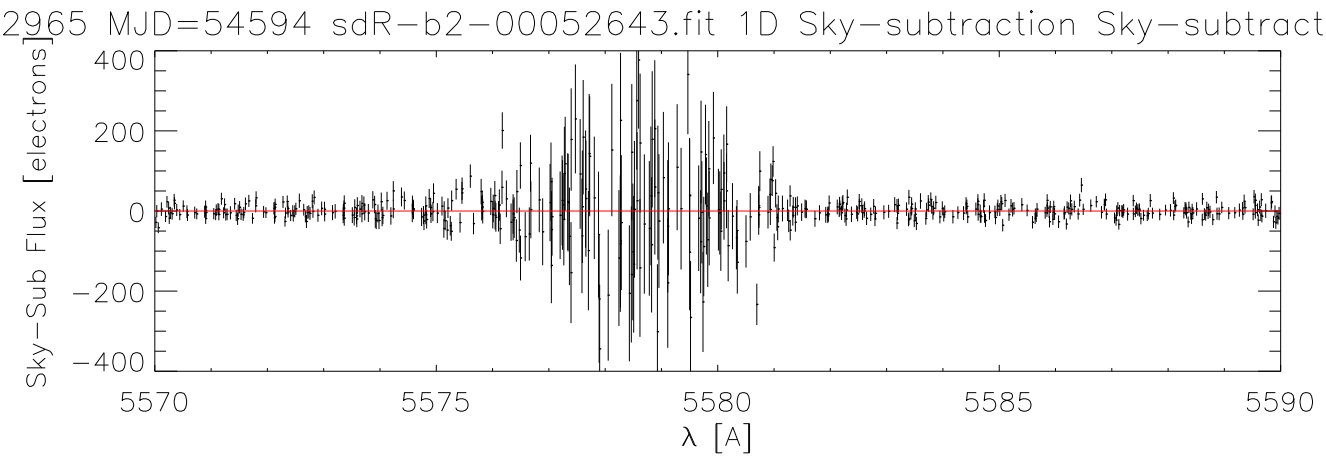

4046.5600
nfib1 33
nfib2 33
stdev 0.084
extra 0.12
4358.3300
nfib1 32
nfib2 32
stdev 0.041
extra 0.13
5460.9400
nfib1 33
nfib2 33
stdev 0.035
extra 0.17
5577.3390
nfib1 33
nfib2 33
stdev 0.011
extra 0.21
5889.9500
nfib1 33
nfib2 33
stdev 0.022
extra 0.32
5895.9240
nfib1 33
nfib2 33
stdev 0.029
extra 0.29
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

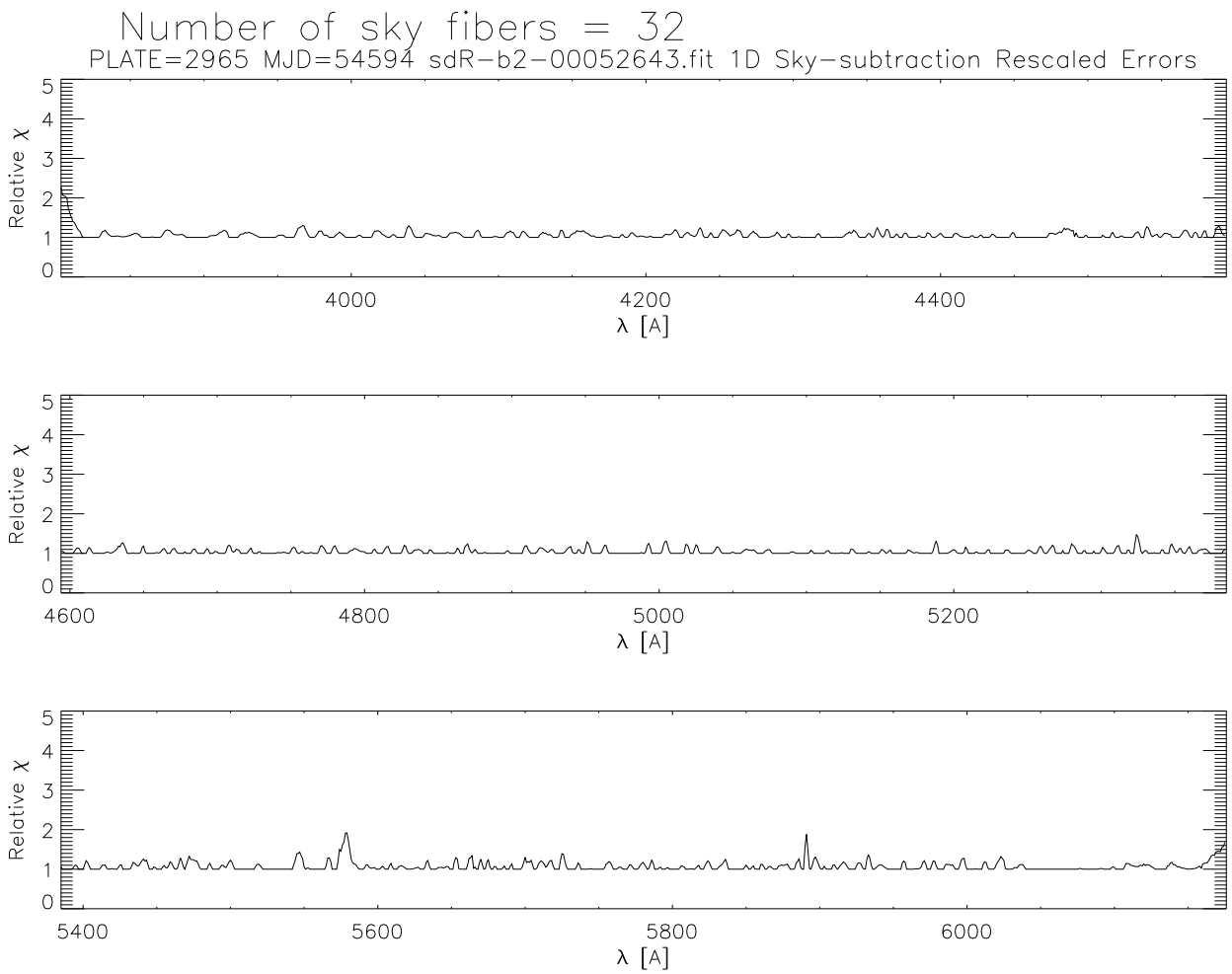

sky shift, pixels
0.00
0.05
0.10
0.15
0.20
0.25
0.30
3500
4000
4500
5000
5500
6000
6500

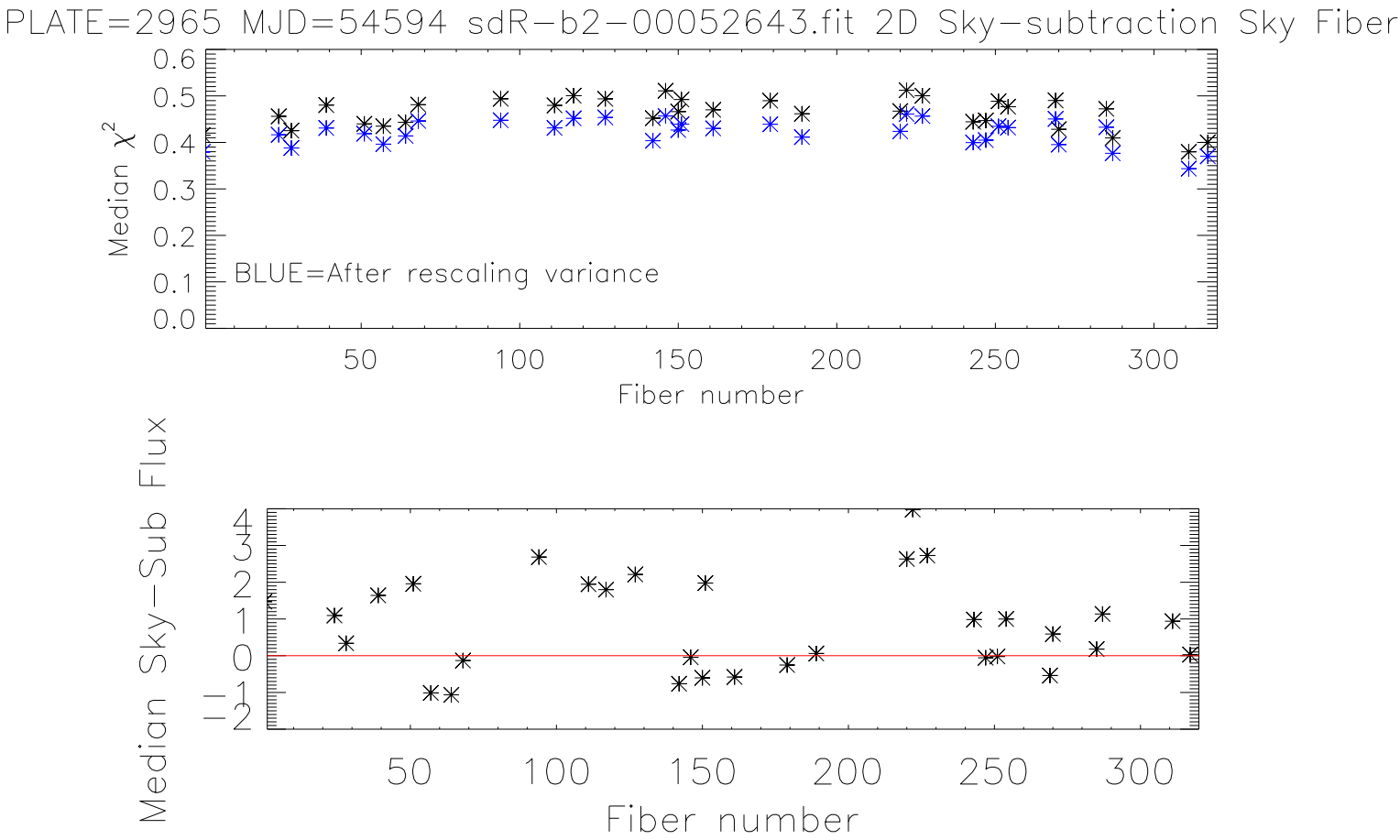

PLATE=2965 MJD=54594 Smooth superflat for sdR-b2-00052643.fit
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

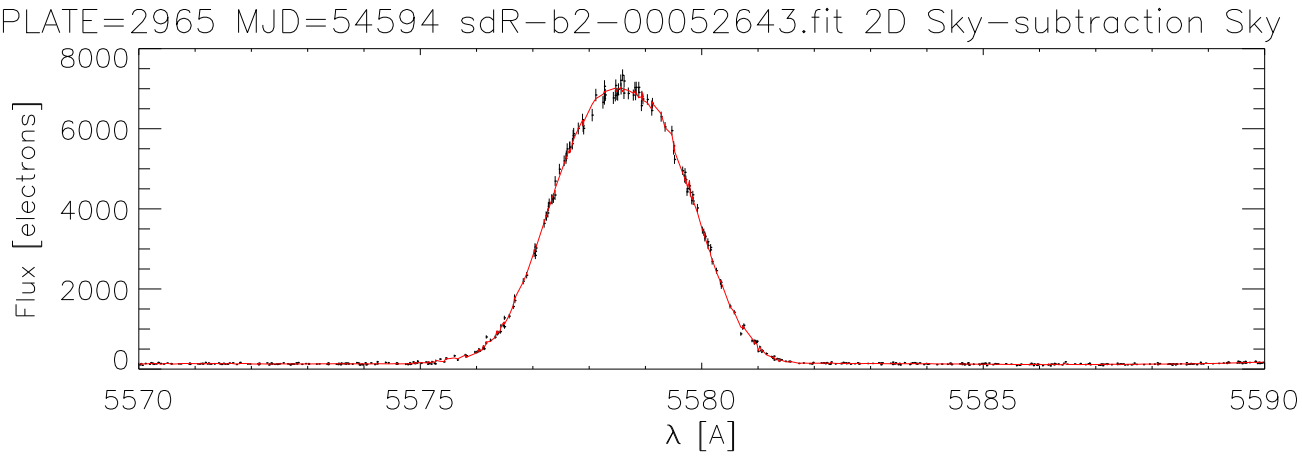

PLATE=2965 MJD=54594 sdR-b2-00052643.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

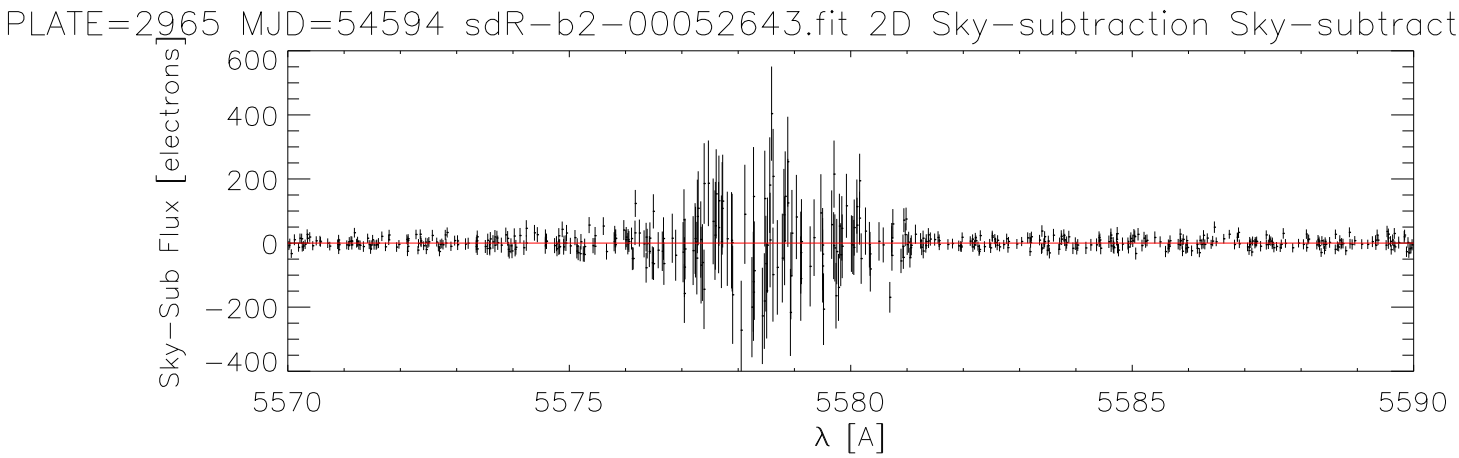

PLATE=2965 MJD=54594 sdR-b2-00052643.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

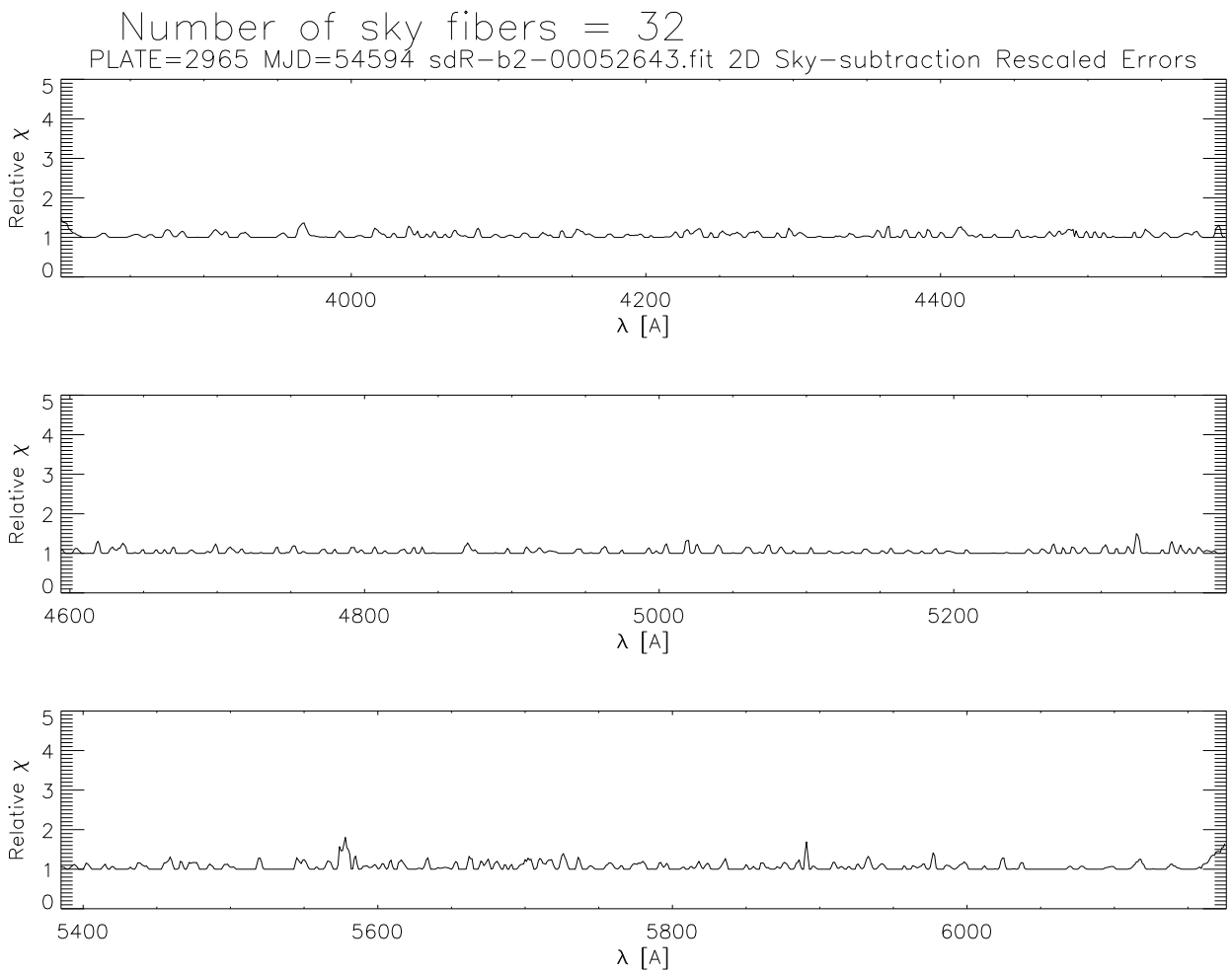

PLATE=2965 MJD=54594 sdR-b2-00052643.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

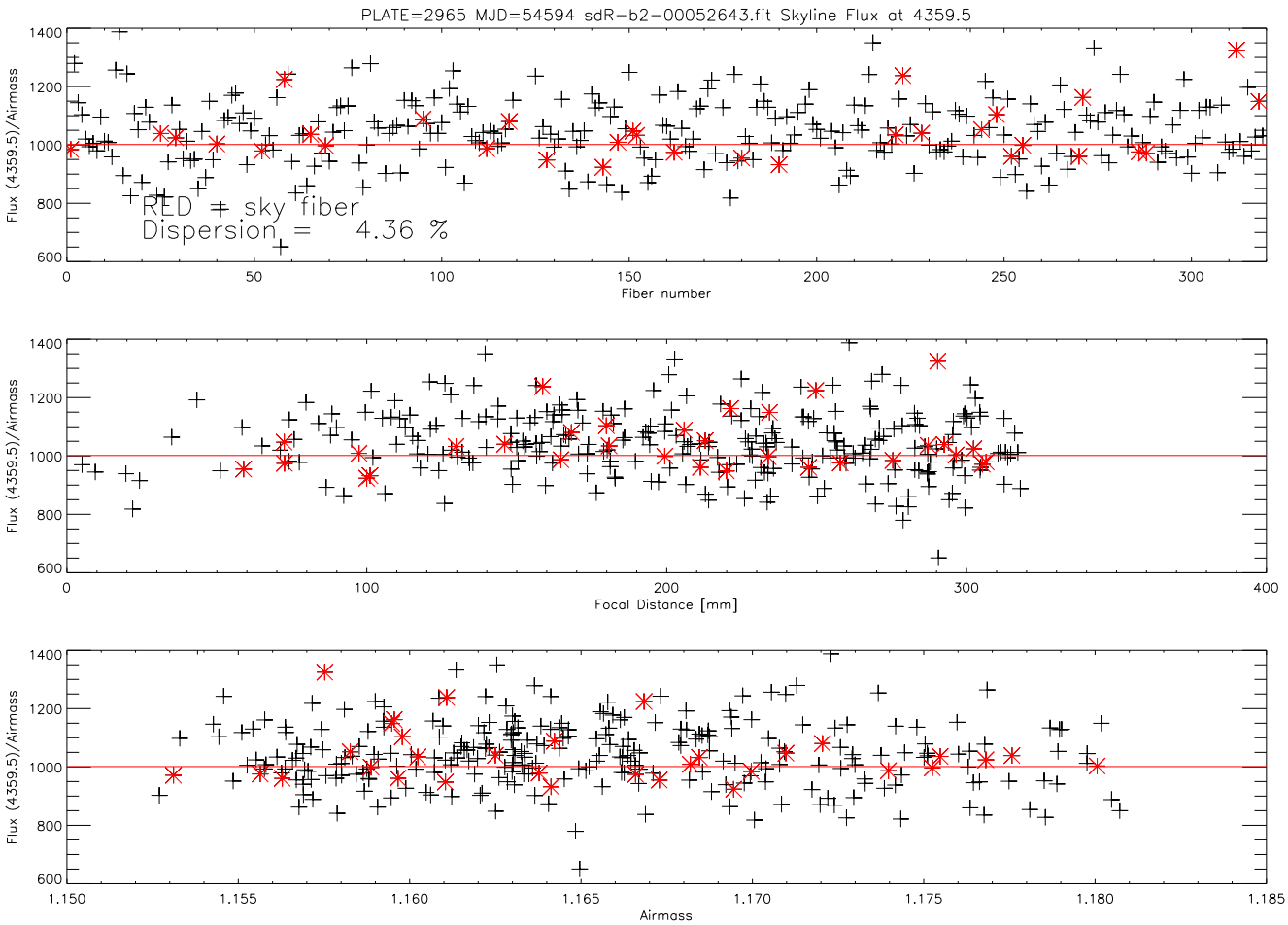

Number of sky fibers = 32
PLATE=2965 MJD=54594 sdR-b2-00052643.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

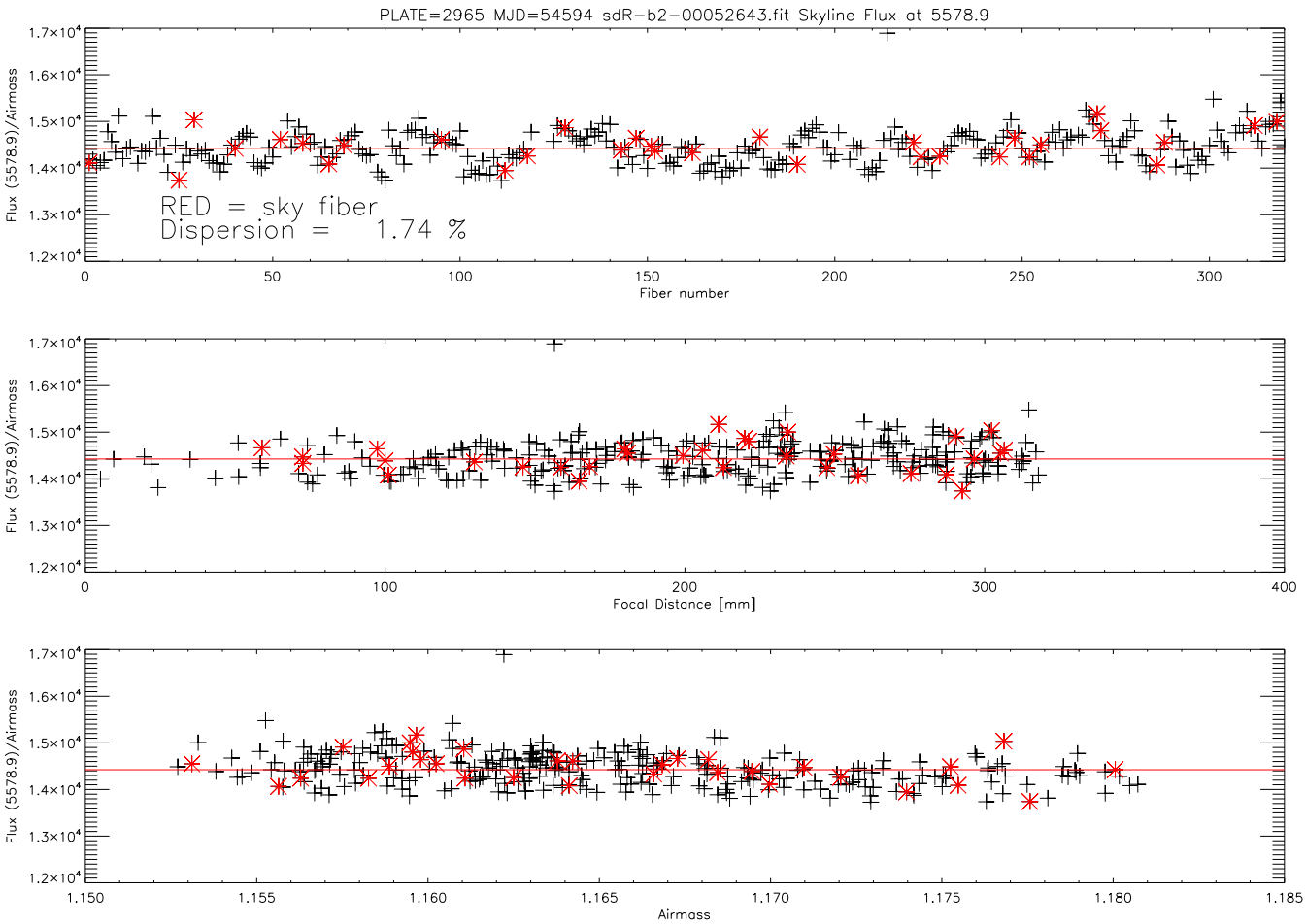

PLATE=2965 MJD=54594 sdR-b2-00052643.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

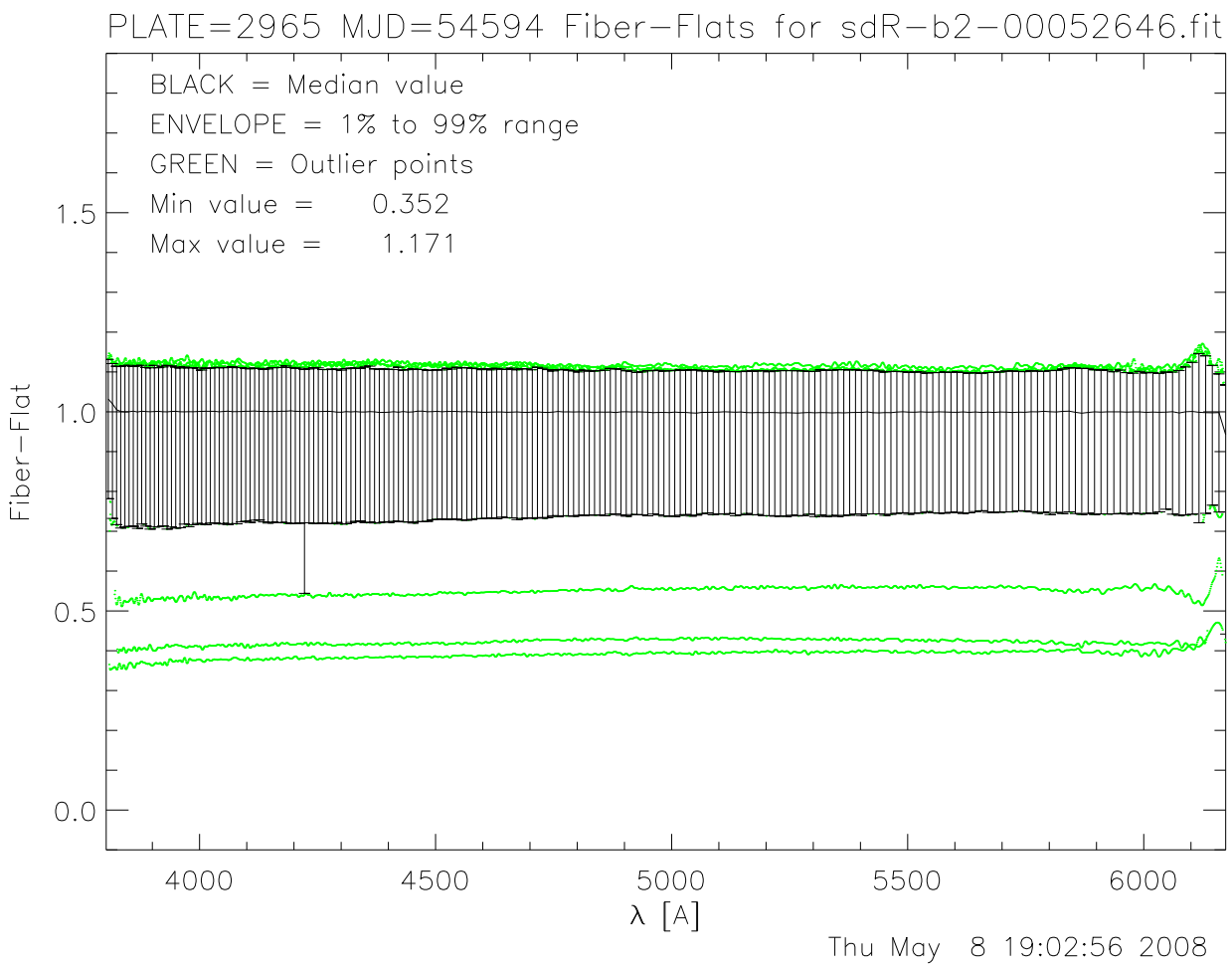

PLATE=2965 MJD=54594 sdR-b2-00052643.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

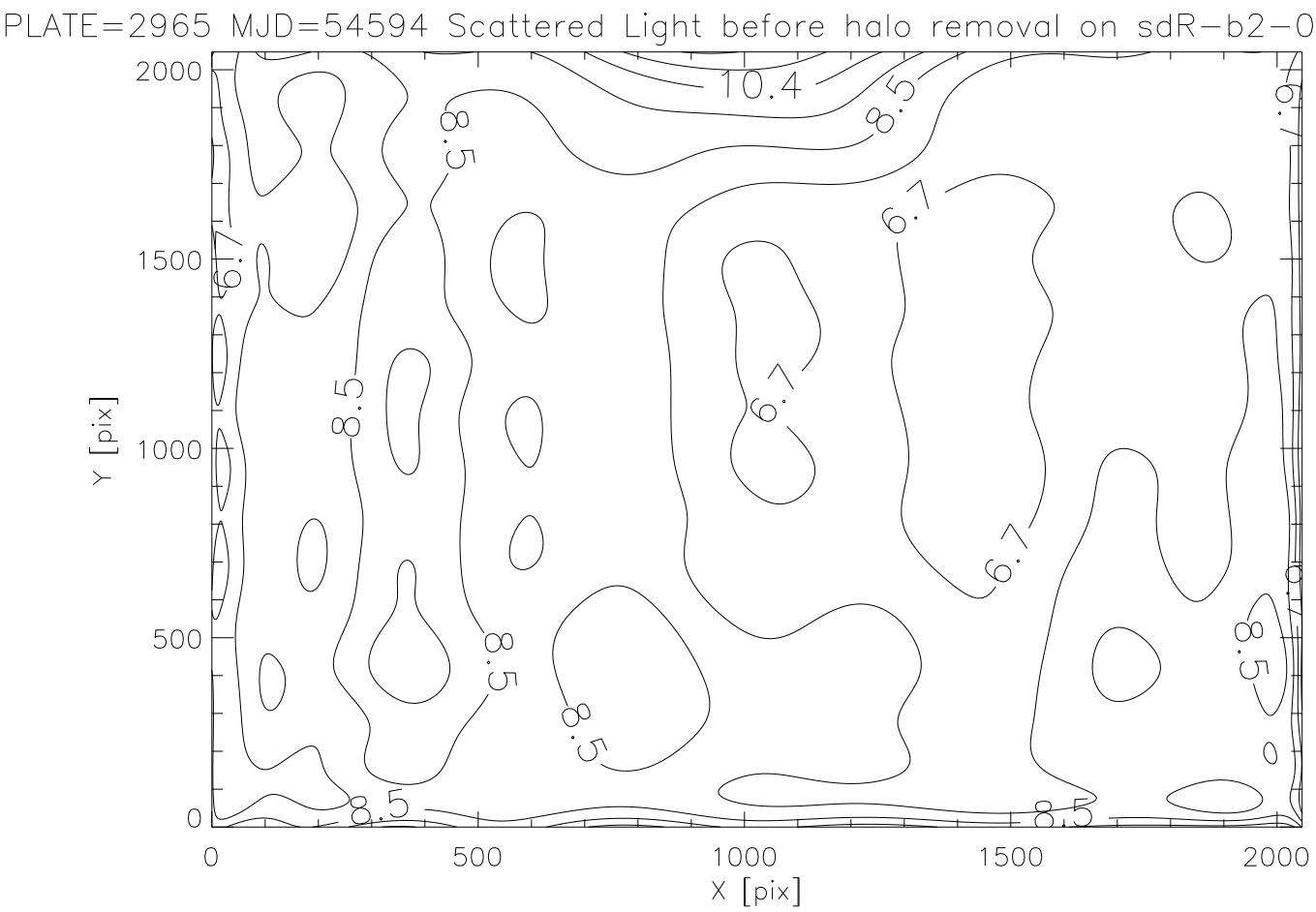

PLATE=2965 MJD=54594 sdR-b2-00052643.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

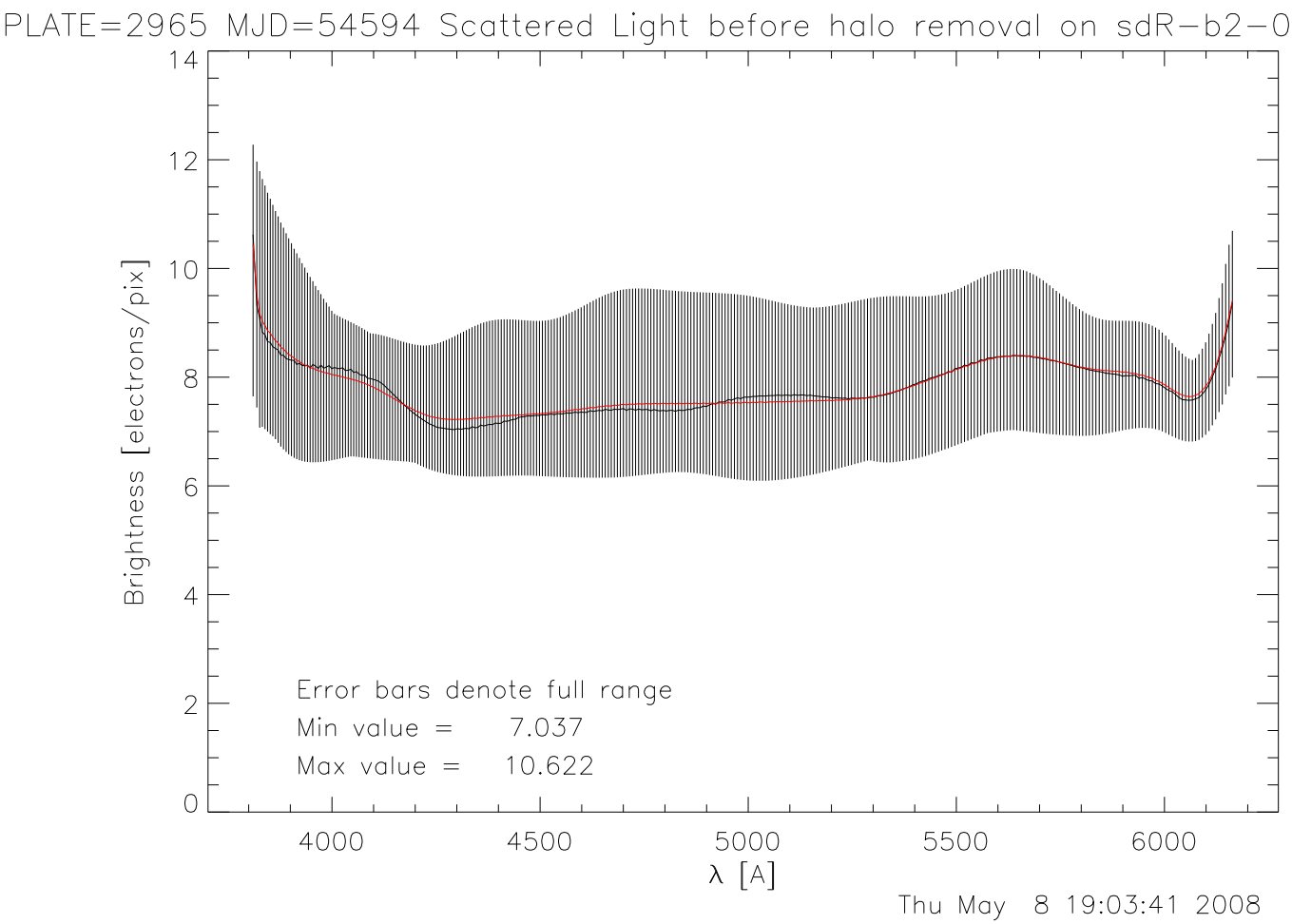

Number of sky fibers = 32
PLATE=2965 MJD=54594 sdR-b2-00052643.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

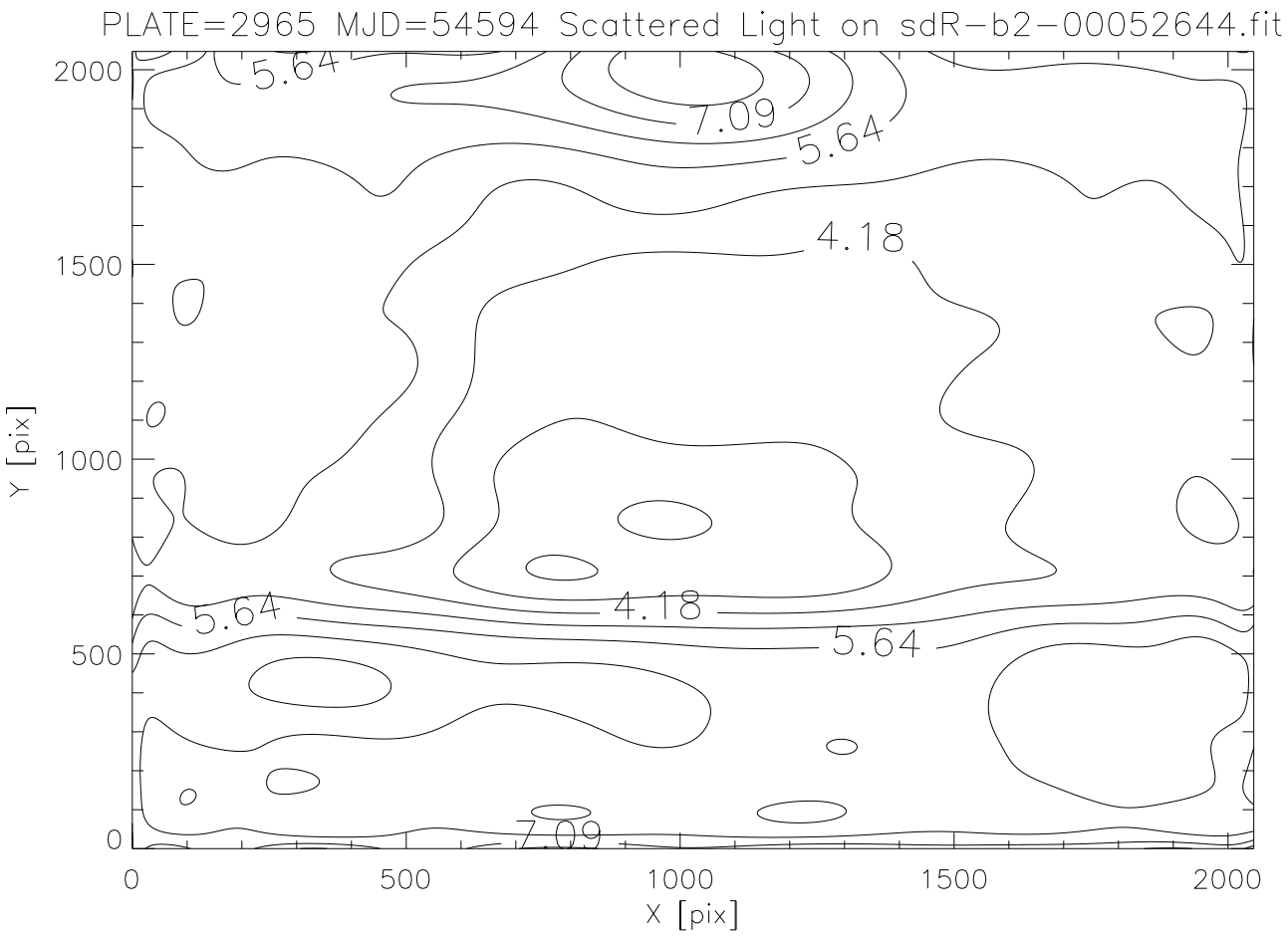

PLATE=2965 MJD=54594 sdR-b2-00052643.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 4.36 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

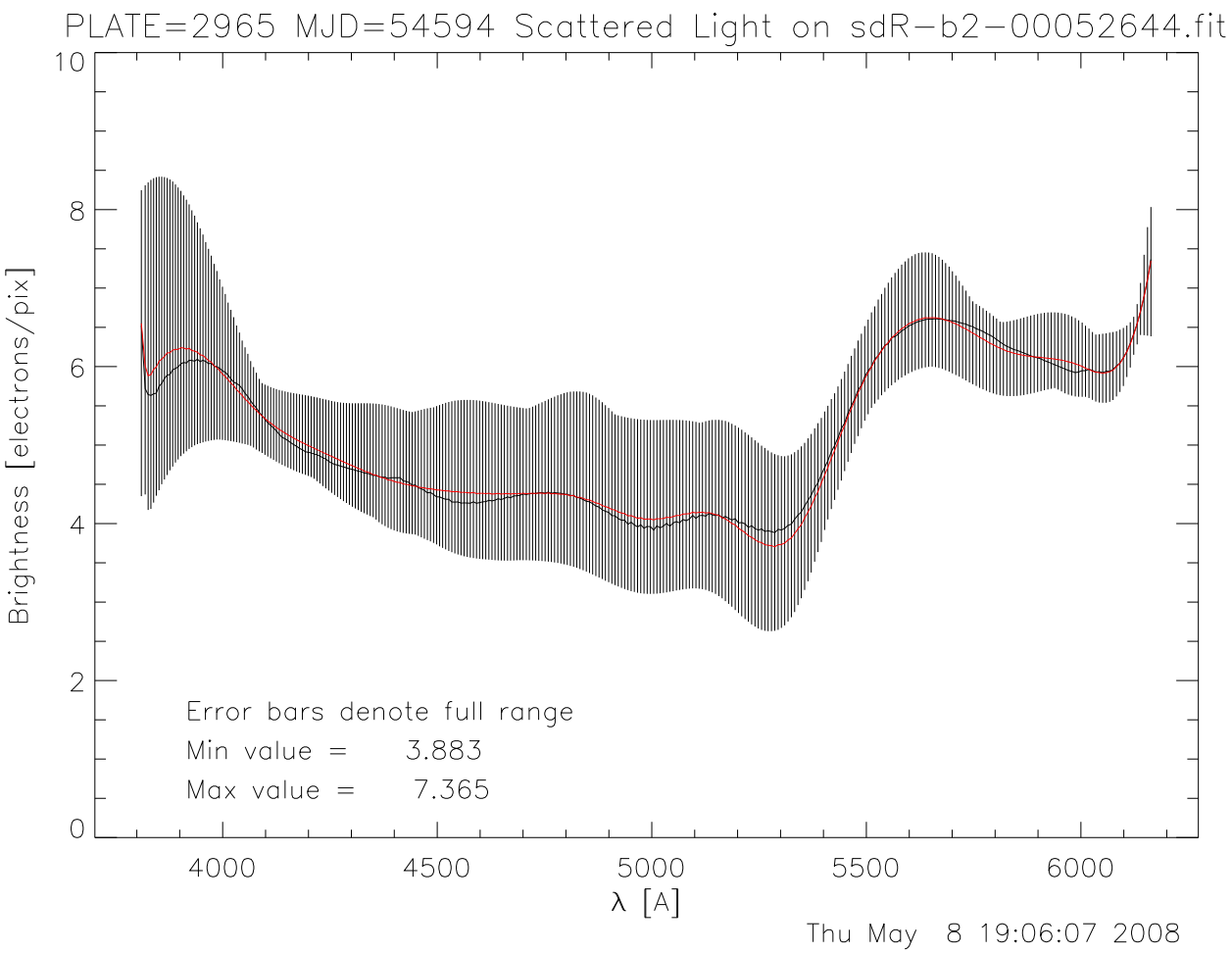

PLATE=2965 MJD=54594 sdR-b2-00052643.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.74 %
Fiber number
Focal Distance [mm]
Airmass

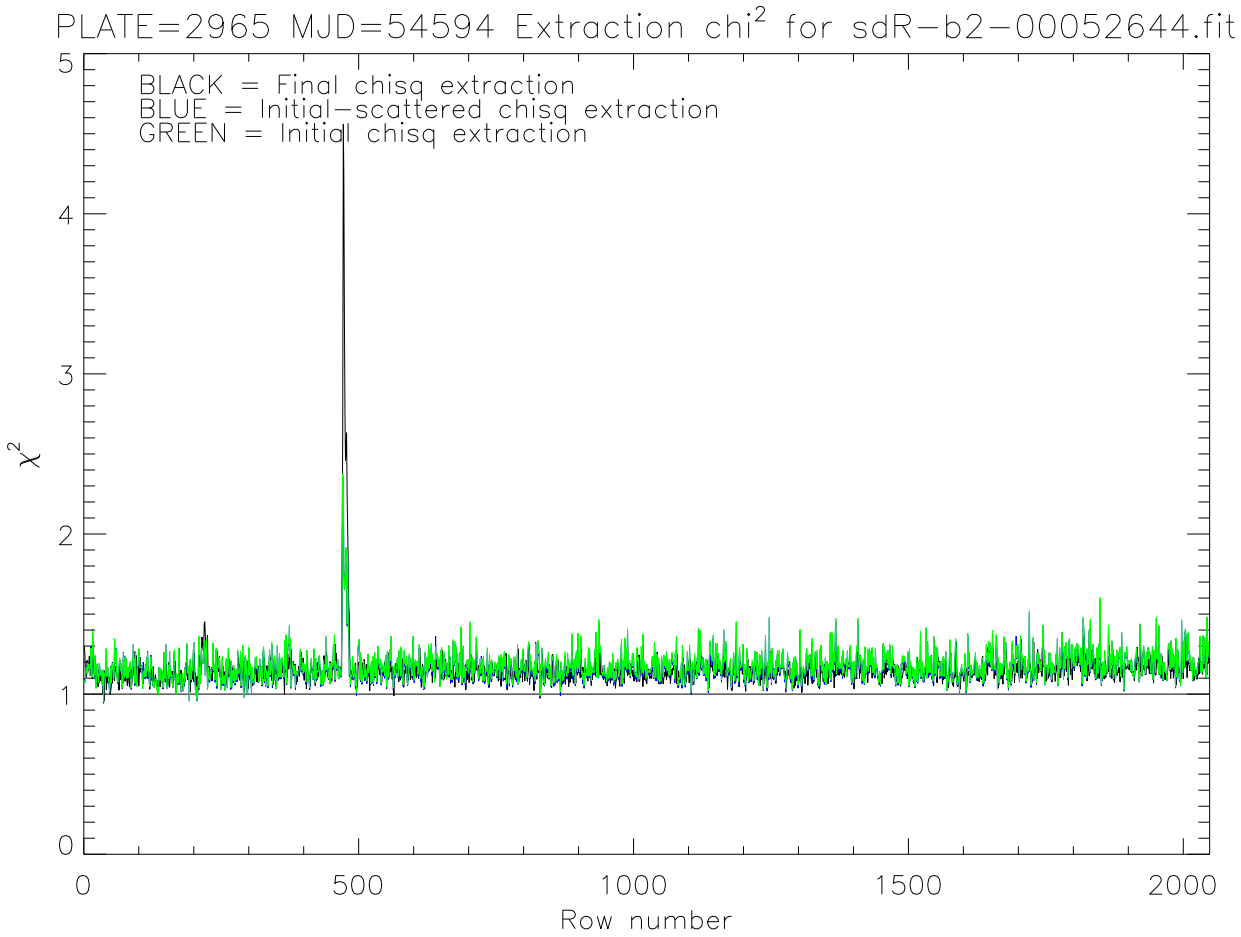

PLATE=2965 MJD=54594 Fiber-Flats for sdR-b2-00052646.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.352
Max value = 1.171
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Thu May 8 19:02:56 2008

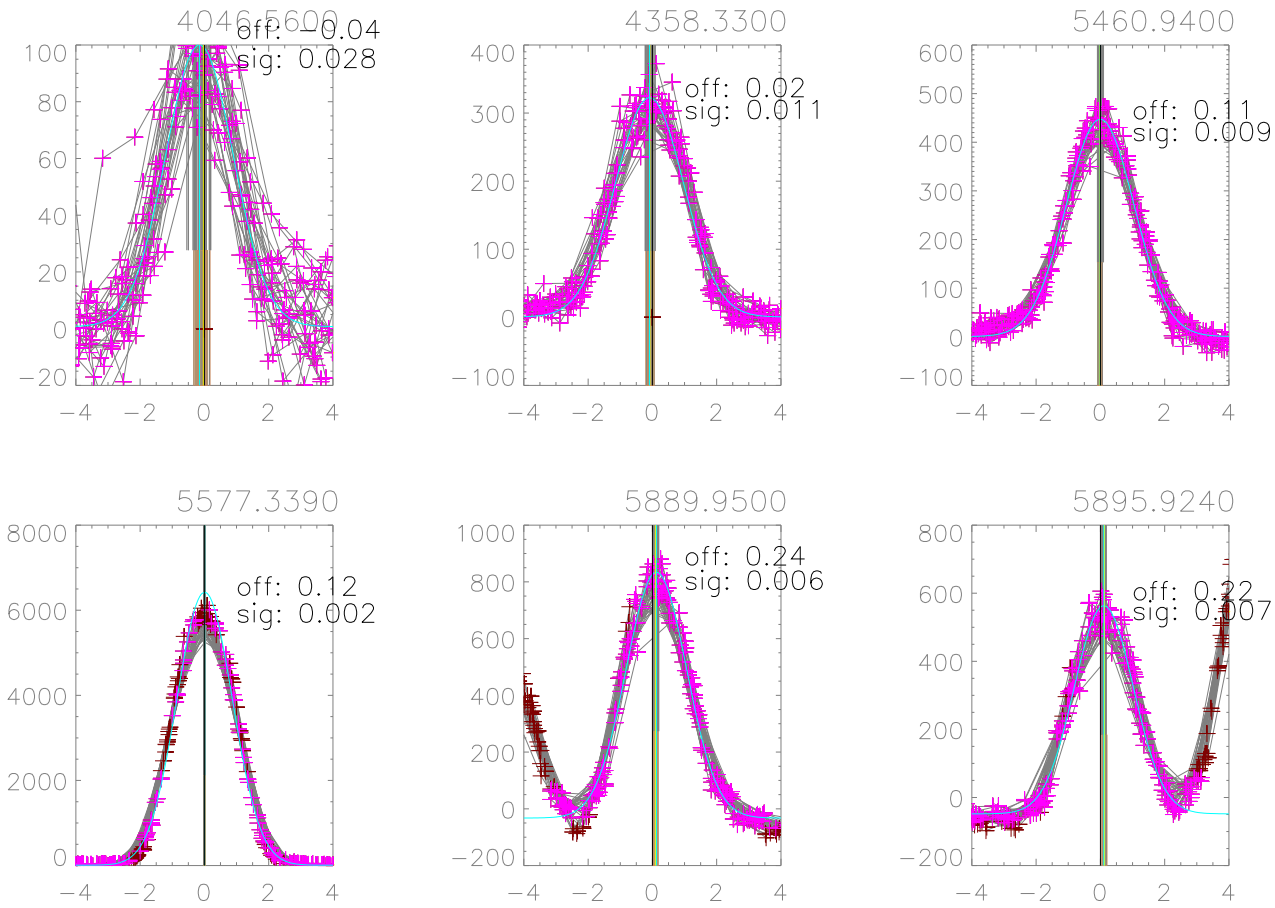

PLATE=2965 MJD=54594 Scattered Light before halo removal on sdR-b2-00052644.f
10.4
8.5
6.7
Y [pix]
X [pix]
0
500
1000
1500
2000

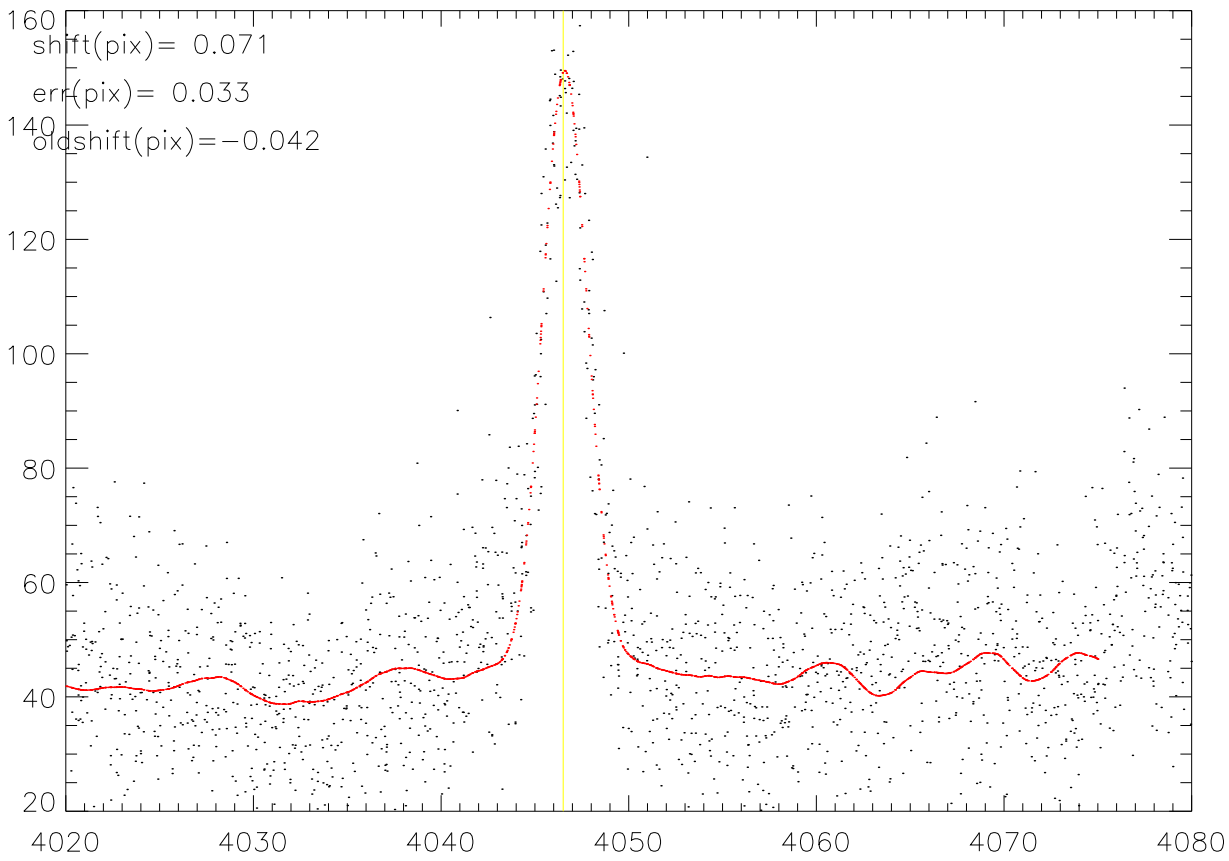

PLATE=2965 MJD=54594 Scattered Light before halo removal on sdR-b2-00052644.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.037
Max value = 10.622
Thu May 8 19:03:41 2008

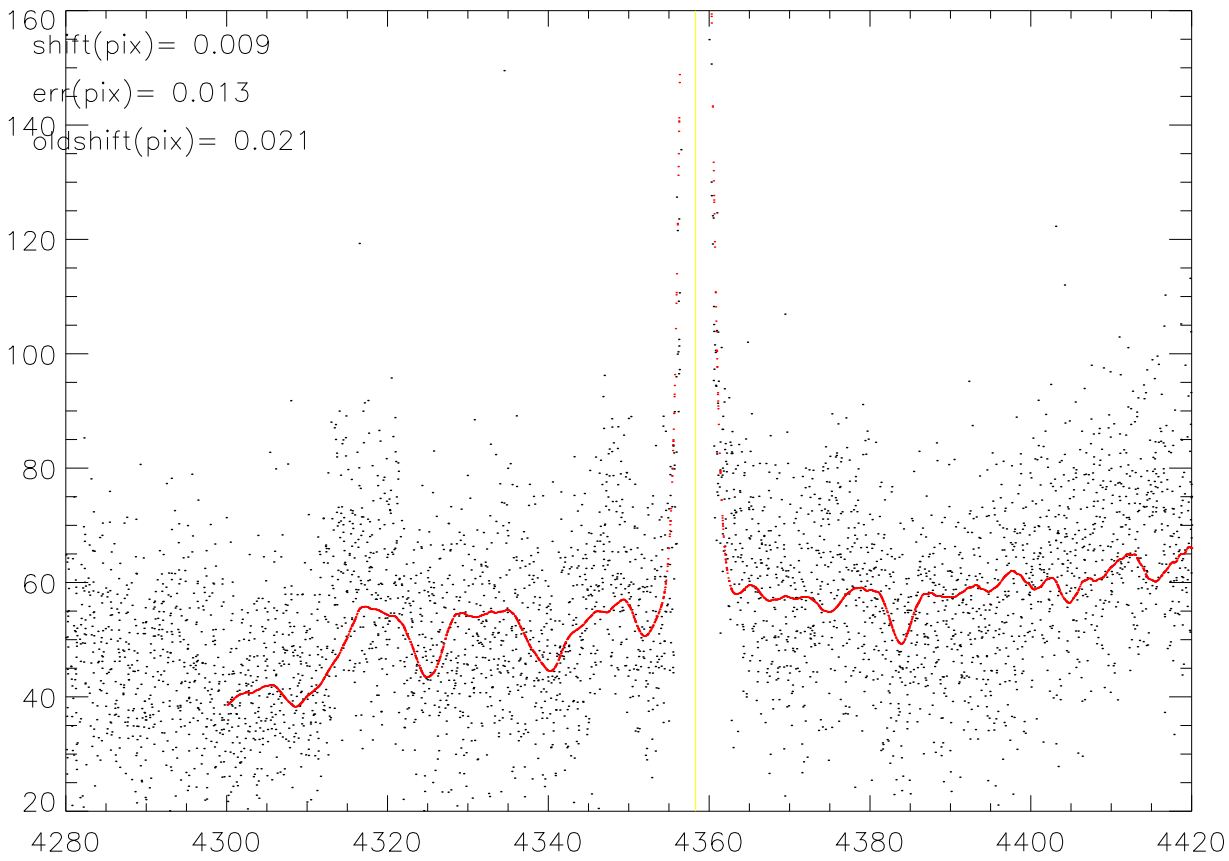

PLATE=2965 MJD=54594 Scattered Light on sdR-b2-00052644.fit
5.64
7.09
5.64
4.18
0
4.18
5.64
5.64
7.09
Y [pix]
X [pix]
0
500
1000
1500
2000

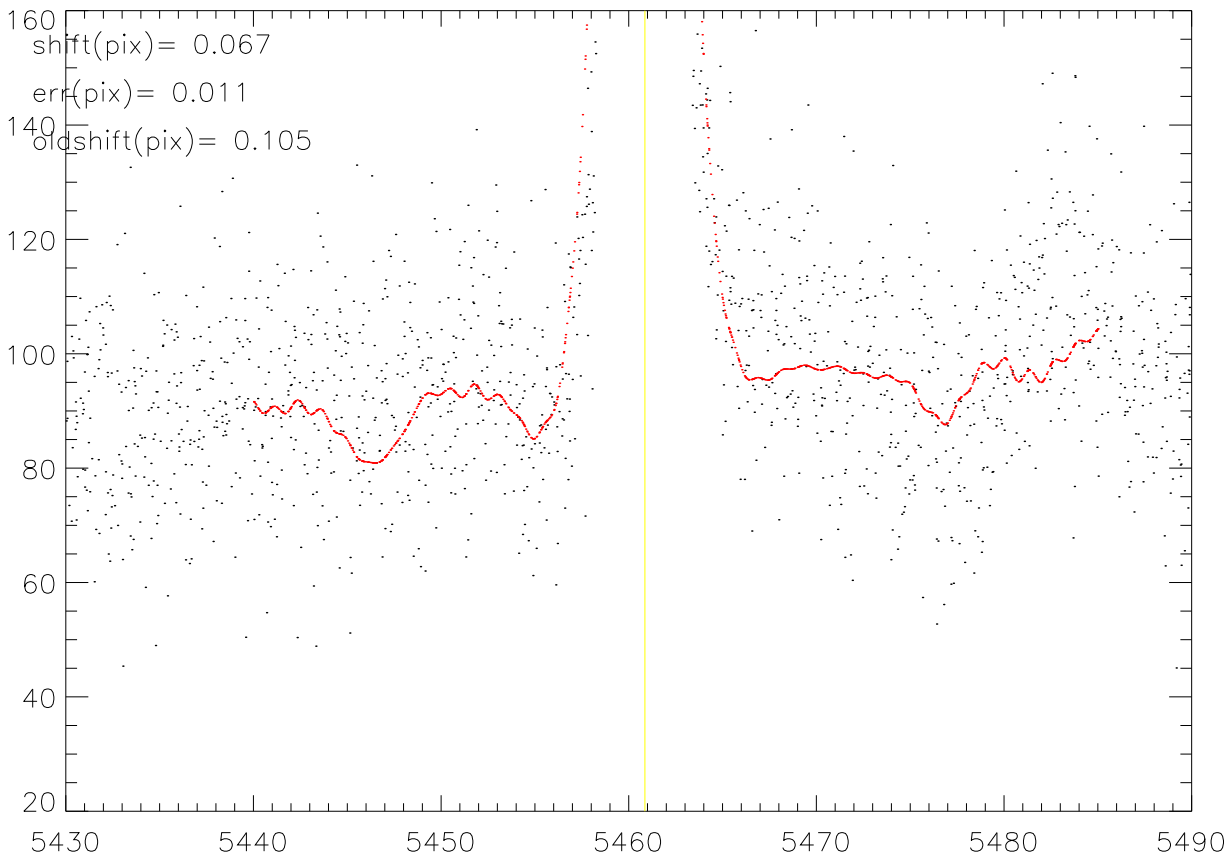

PLATE=2965 MJD=54594 Scattered Light on sdR-b2-00052644.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.883
Max value = 7.365
Thu May 8 19:06:07 2008

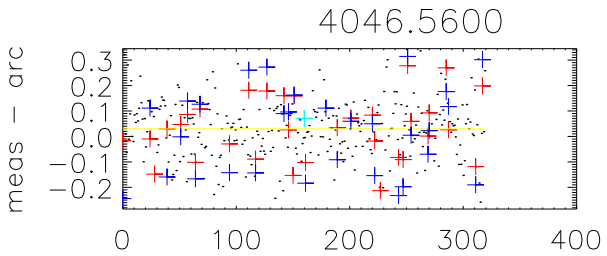

PLATE=2965 MJD=54594 Extraction chi^2 for sdR-b2-00052644.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

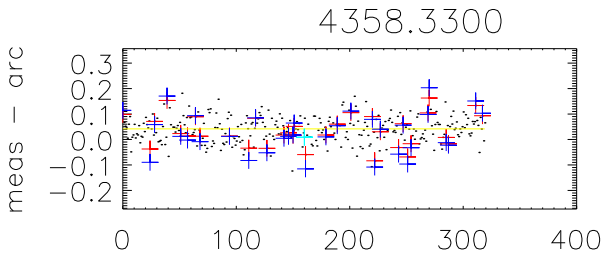

4046.5600
off: −0.04
sig: 0.028
4358.3300
off: 0.02
sig: 0.011
5460.9400
off: 0.11
sig: 0.009
5577.3390
off: 0.12
sig: 0.002
5889.9500
off: 0.24
sig: 0.006
5895.9240
off: 0.22
sig: 0.007

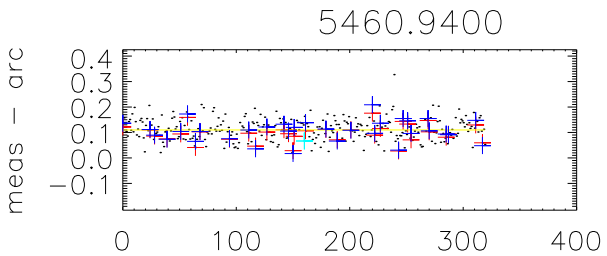

shift(pix)= 0.071
err(pix)= 0.033
oldshift(pix)=-0.042
160
140
120
100
80
60
40
20
4020
4030
4040
4050
4060
4070
4080

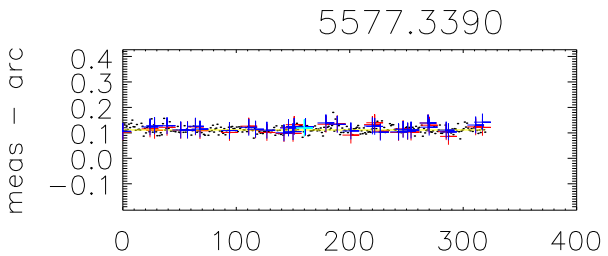

shift(pix)= 0.009
err(pix)= 0.013
oldshift(pix)= 0.021
160
140
120
100
80
60
40
20
4280
4300
4320
4340
4360
4380
4400
4420

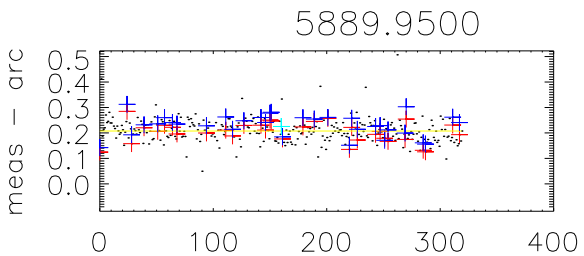

shift(pix)= 0.067
err(pix)= 0.011
oldshift(pix)= 0.105
160
140
120
100
80
60
40
20
5430
5440
5450
5460
5470
5480
5490

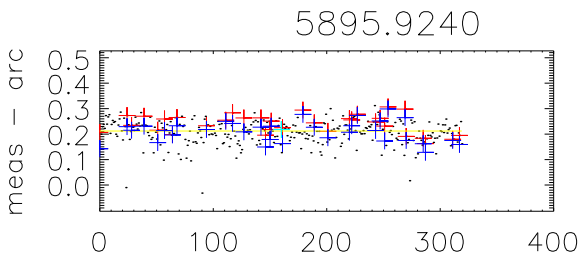

4046.5600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

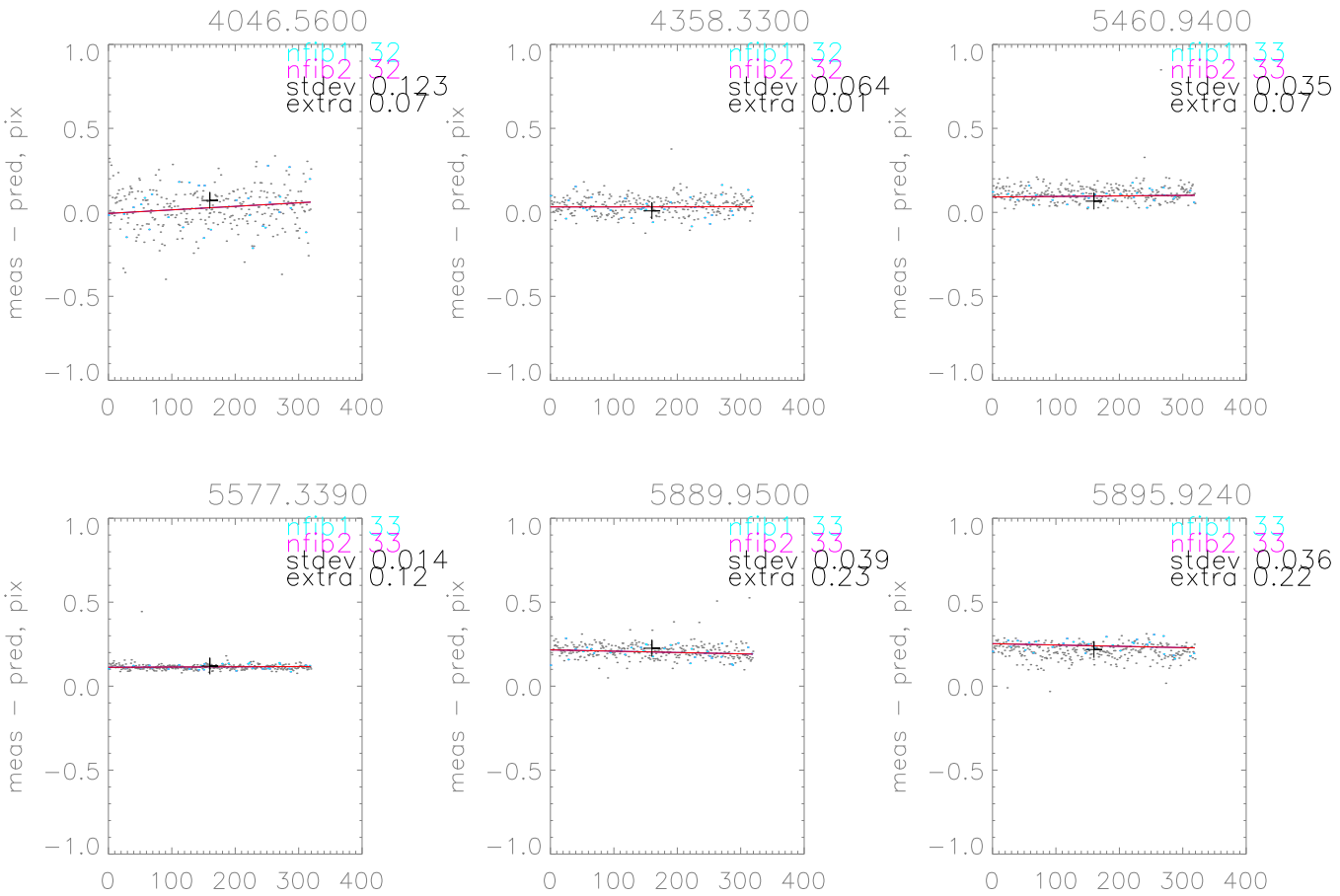

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

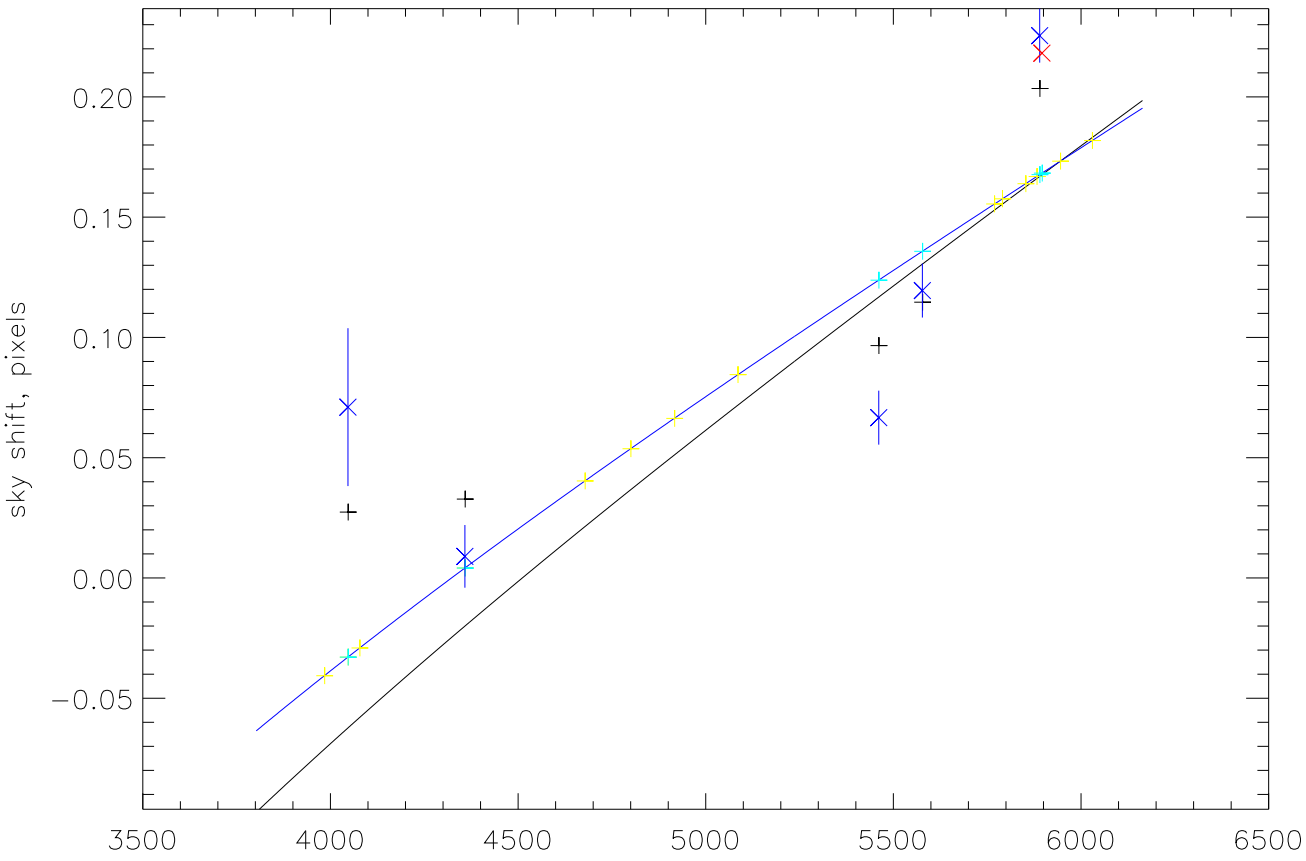

5460.9400
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

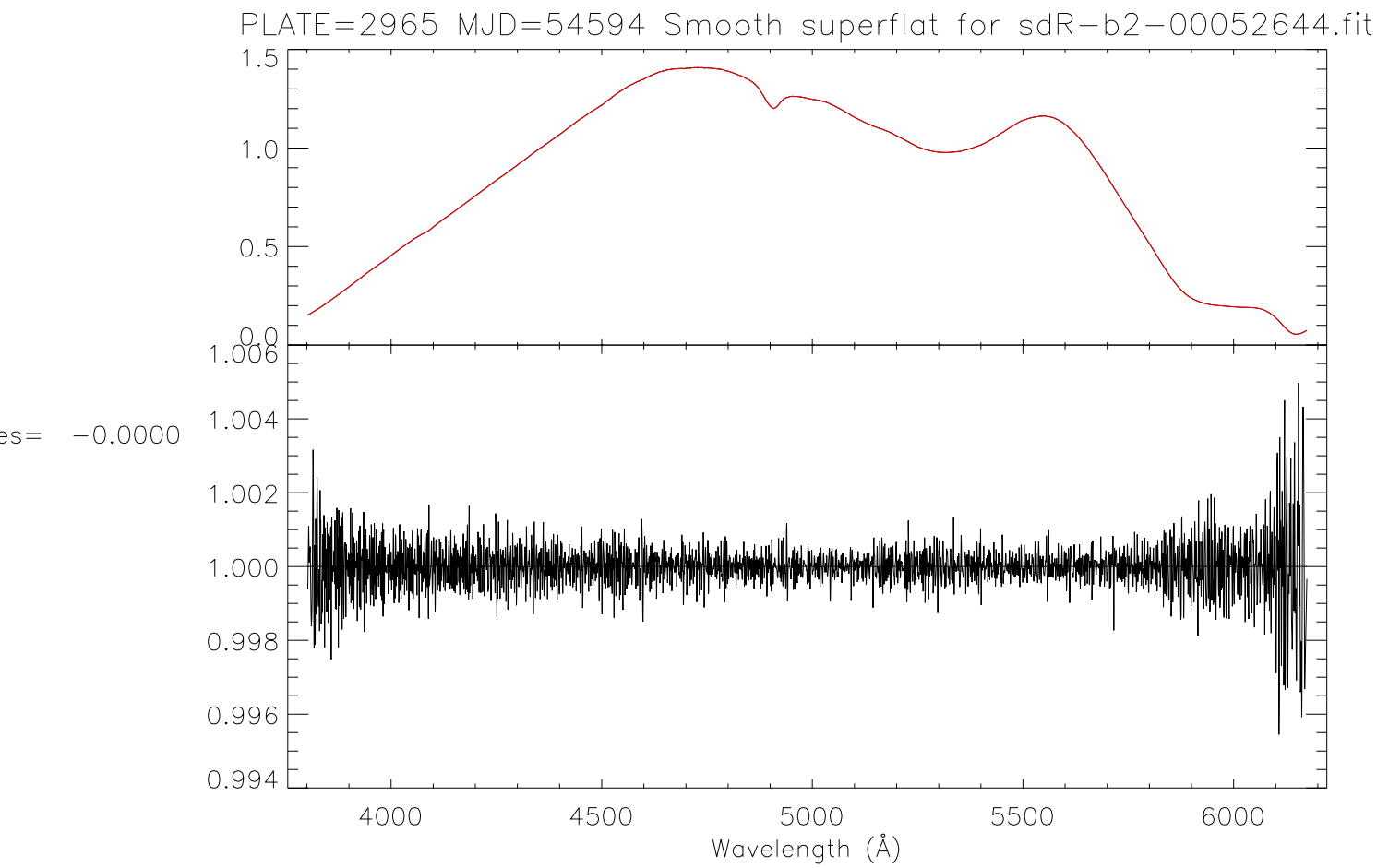

5577.3390
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

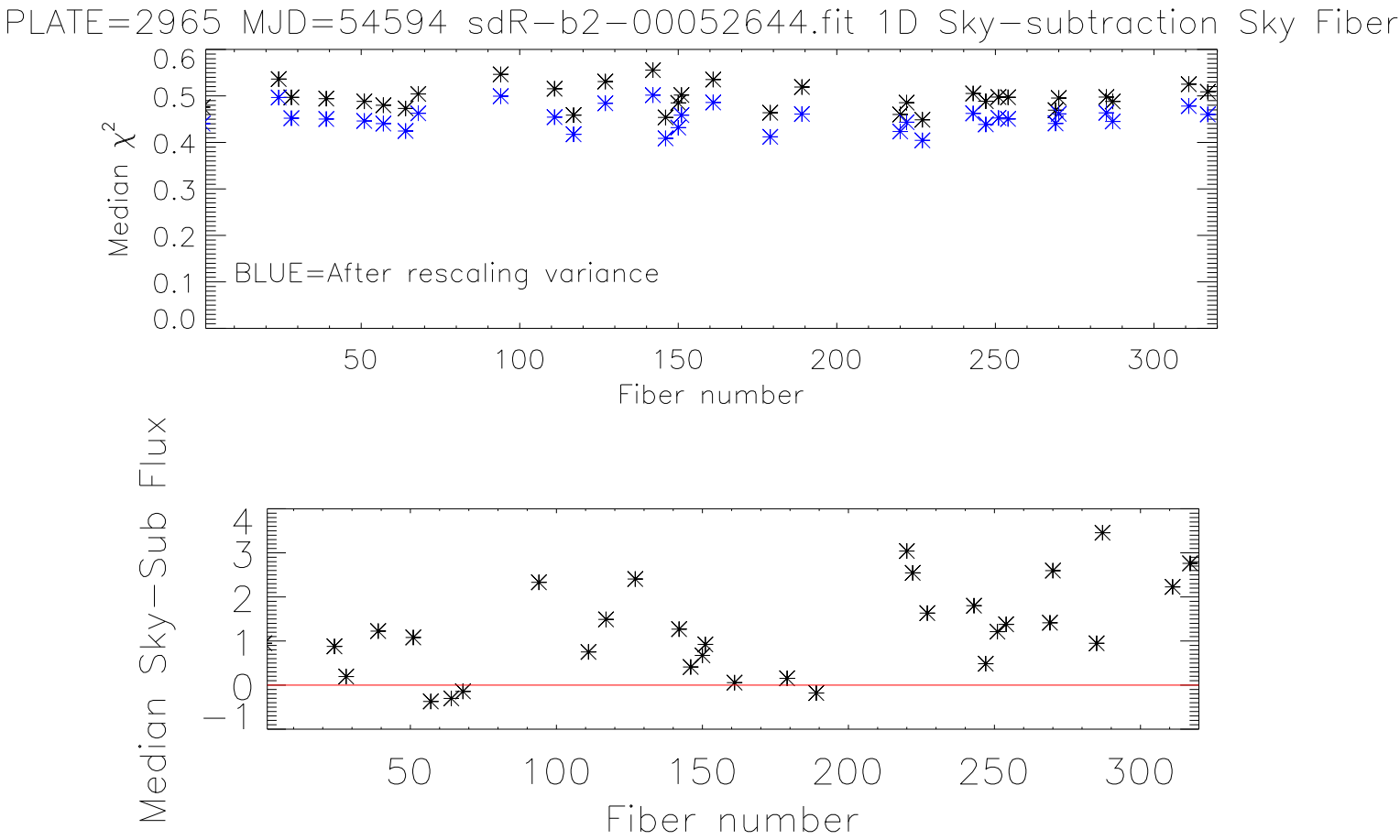

5895.9240
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

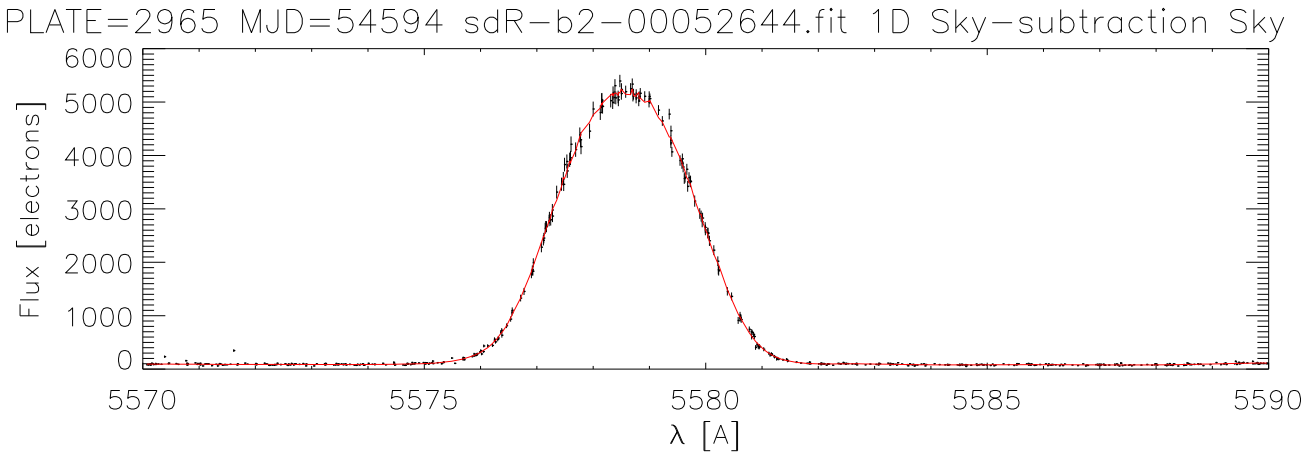

4046.5600
nfib1 32
nfib2 32
stdev 0.123
extra 0.07
4358.3300
nfib1 32
nfib2 32
stdev 0.064
extra 0.01
5460.9400
nfib1 33
nfib2 33
stdev 0.035
extra 0.07
5577.3390
nfib1 33
nfib2 33
stdev 0.014
extra 0.12
5889.9500
nfib1 33
nfib2 33
stdev 0.039
extra 0.23
5895.9240
nfib1 33
nfib2 33
stdev 0.036
extra 0.22
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

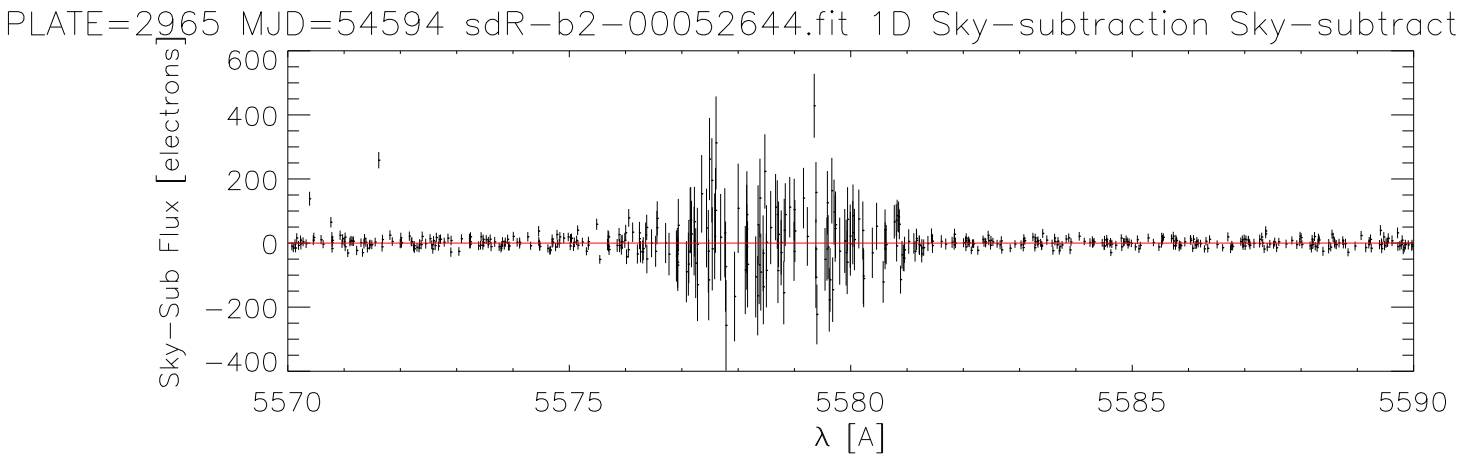

sky shift, pixels
0.20
0.15
0.10
0.05
0.00
−0.05
3500
4000
4500
5000
5500
6000
6500

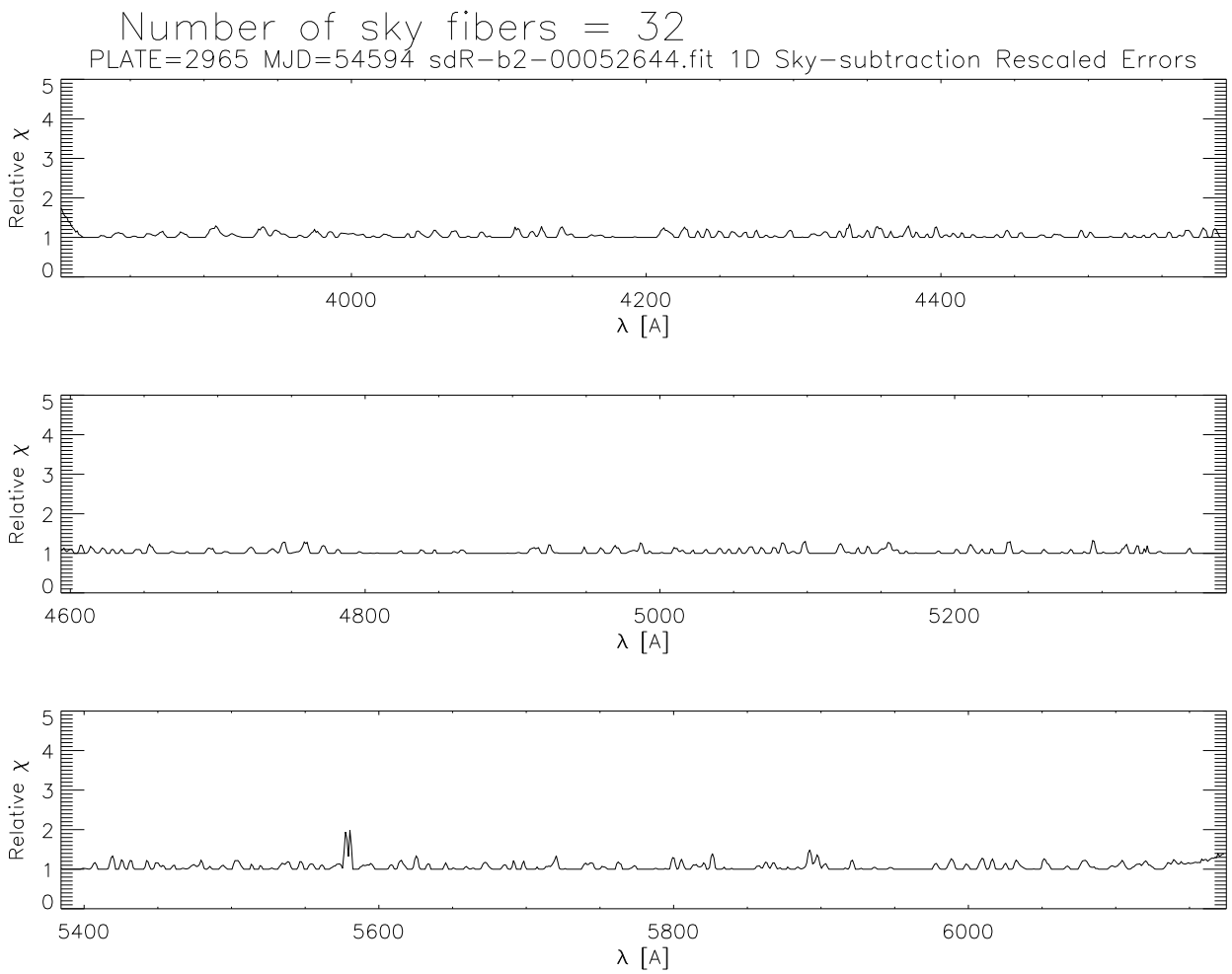

PLATE=2965 MJD=54594 Smooth superflat for sdR-b2-00052644.fit
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
4000
4500
5000
5500
6000
Wavelength (Å)

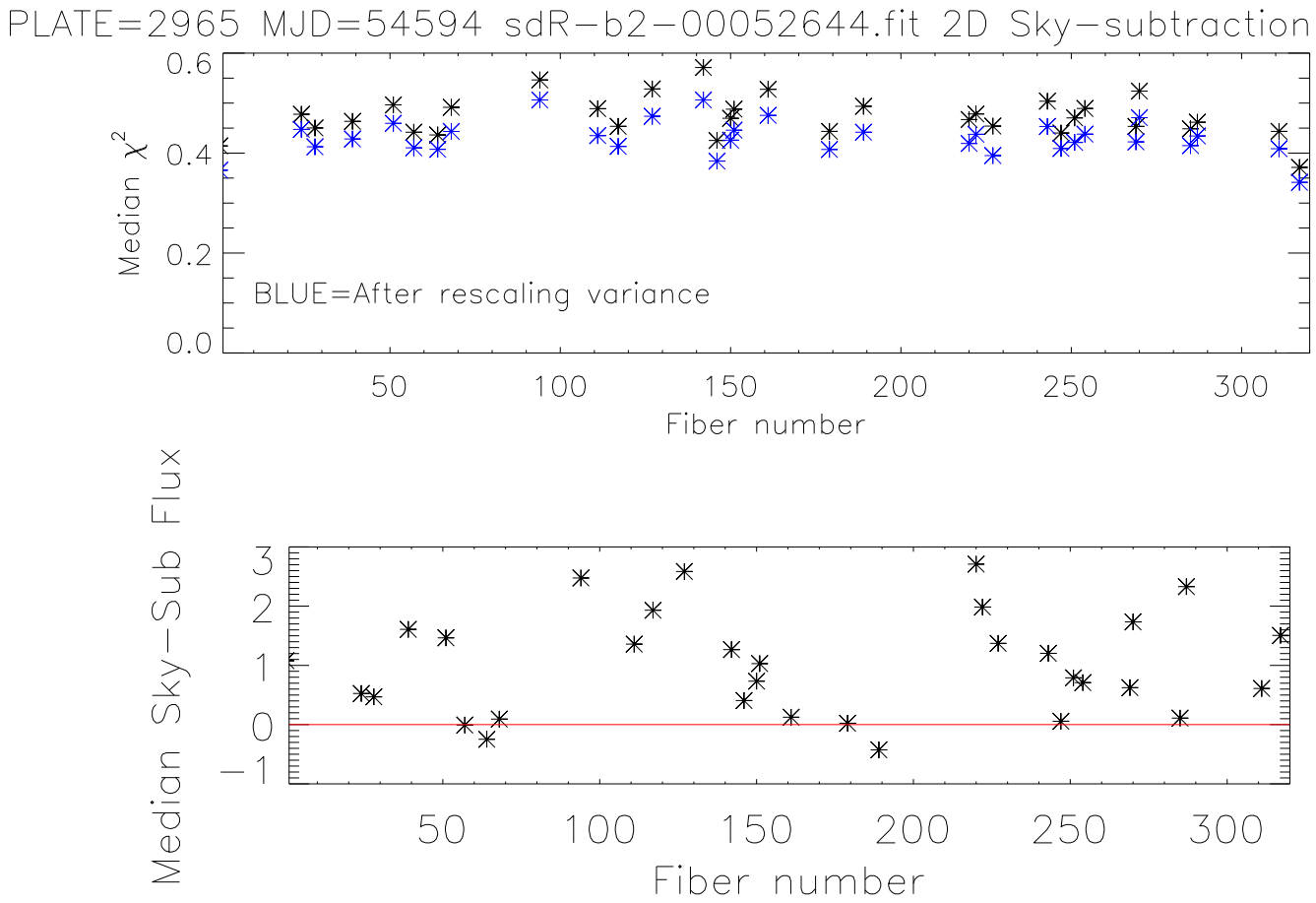
es= −0.0000


PLATE=2965 MJD=54594 sdR-b2-00052644.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

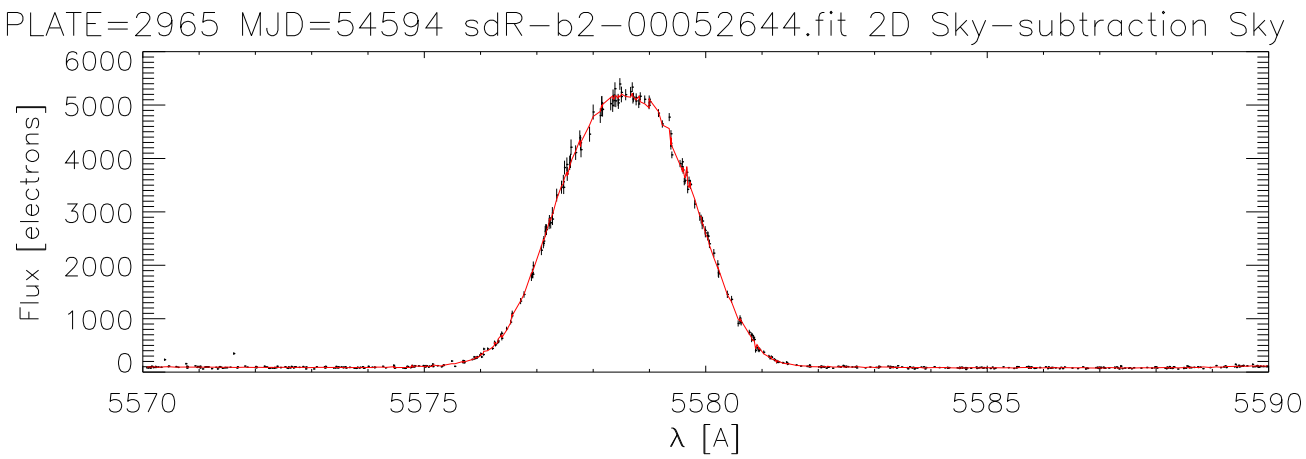

PLATE=2965 MJD=54594 sdR-b2-00052644.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

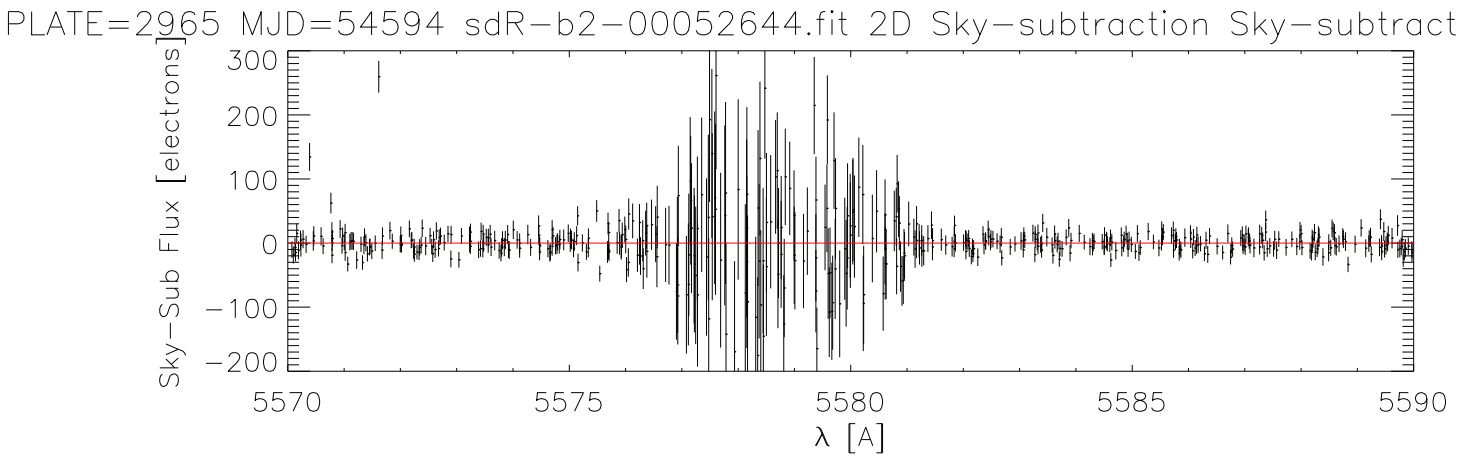

PLATE=2965 MJD=54594 sdR-b2-00052644.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
−200
−400
5570
5575
5580
5585
5590
λ [A]

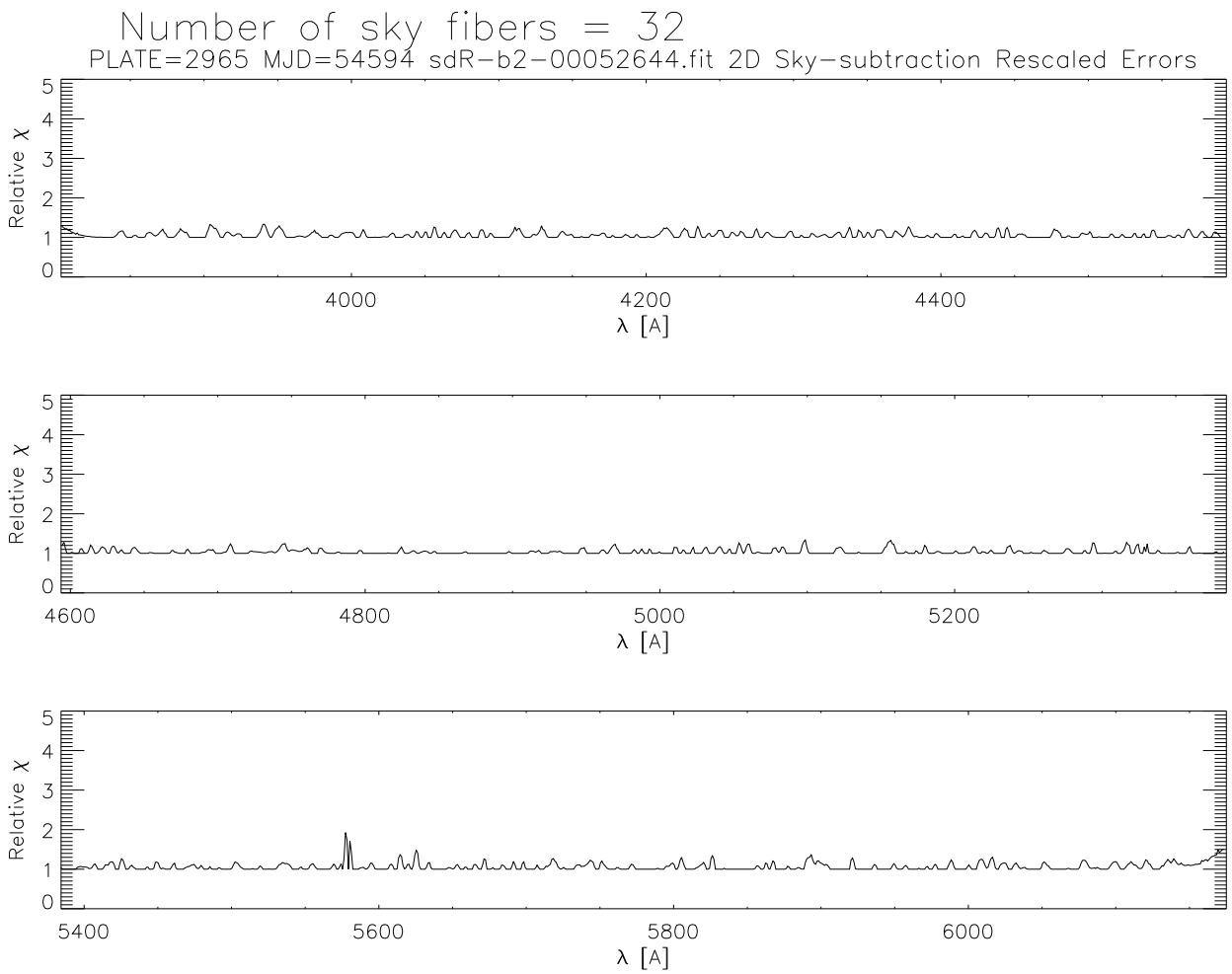

Number of sky fibers = 32
PLATE=2965 MJD=54594 sdR-b2-00052644.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

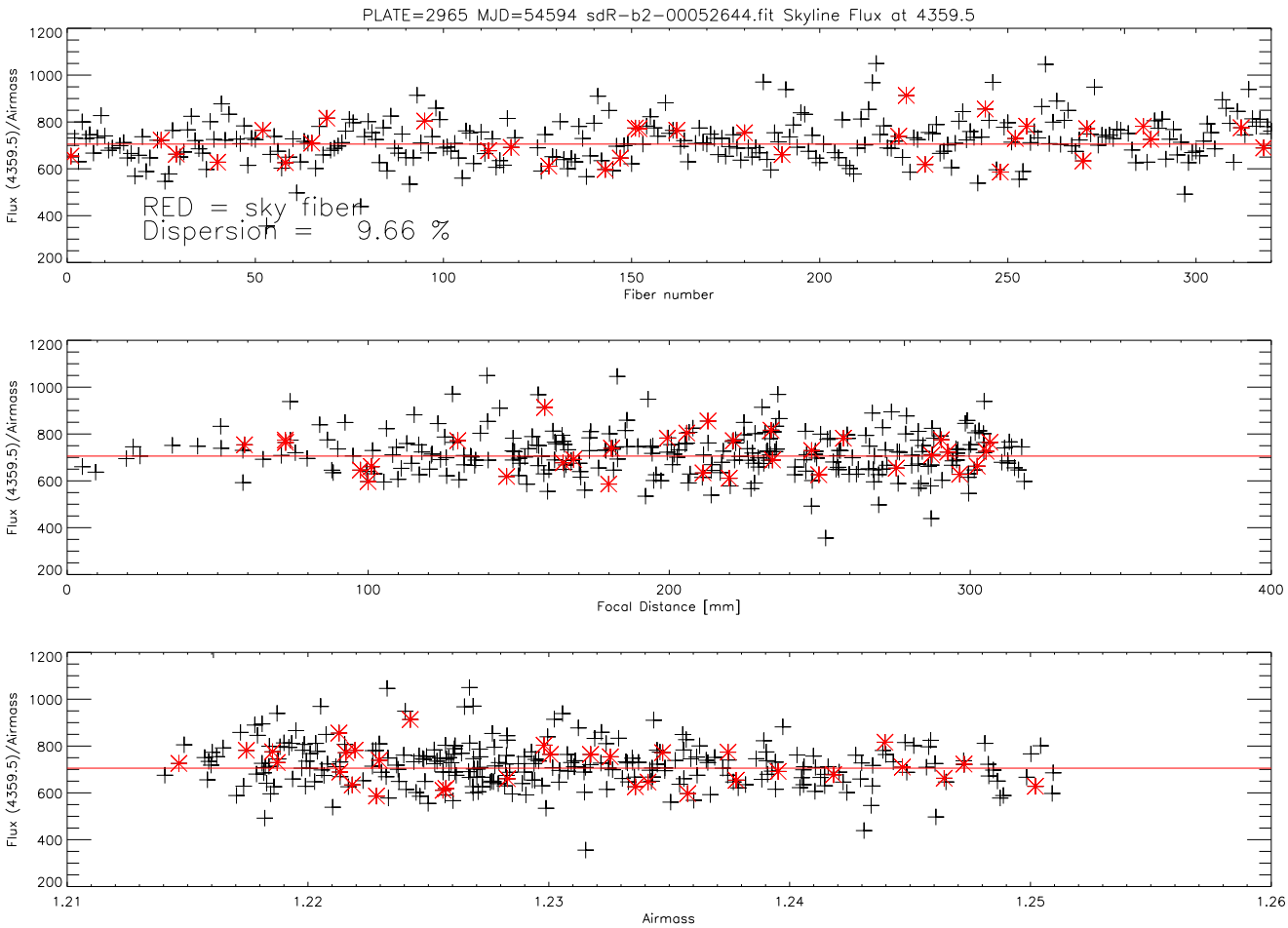

PLATE=2965 MJD=54594 sdR-b2-00052644.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

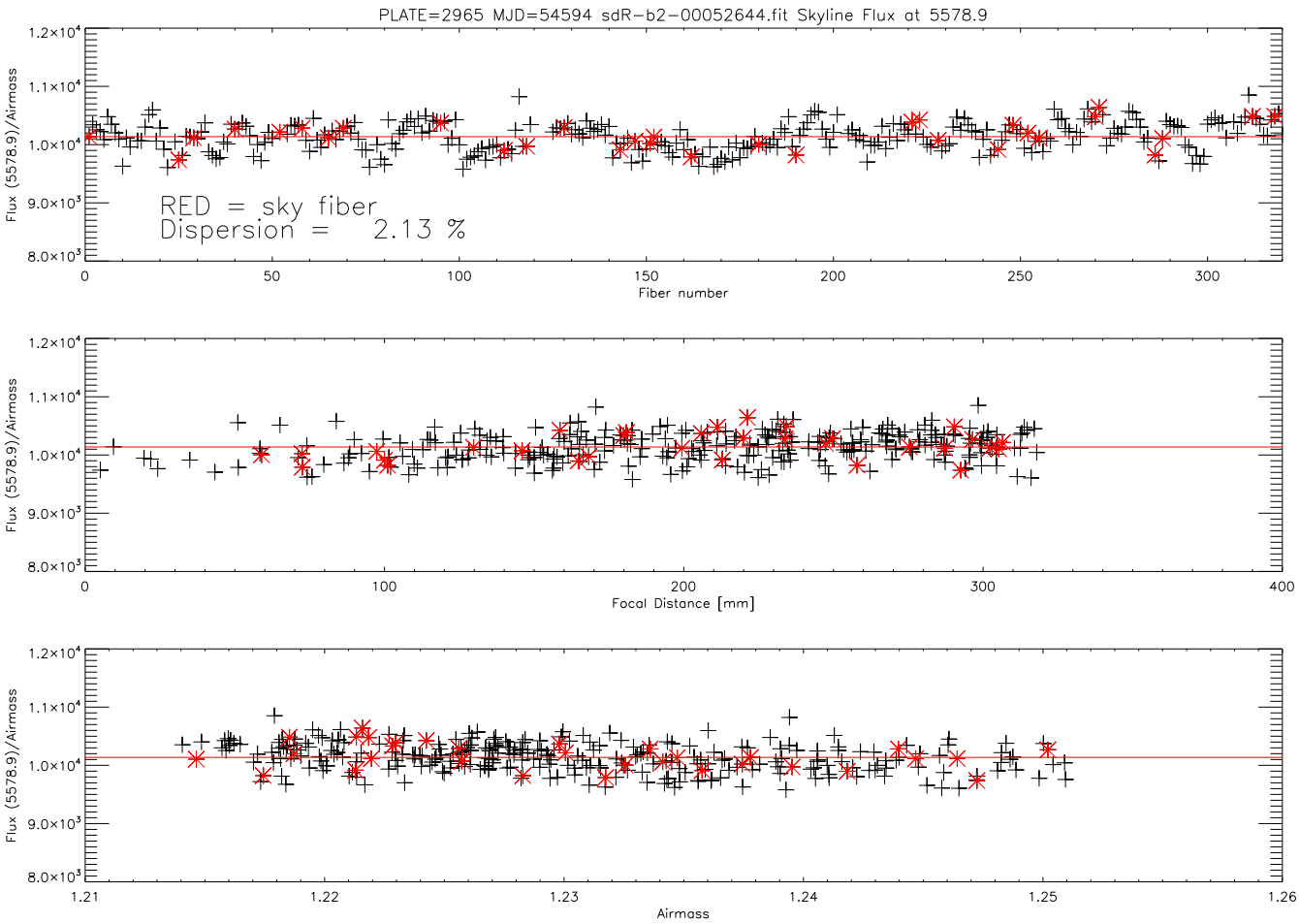
Median Sky-Sub Flux
−1
0
1
2
3
50
100
150
200
250
300
Fiber number

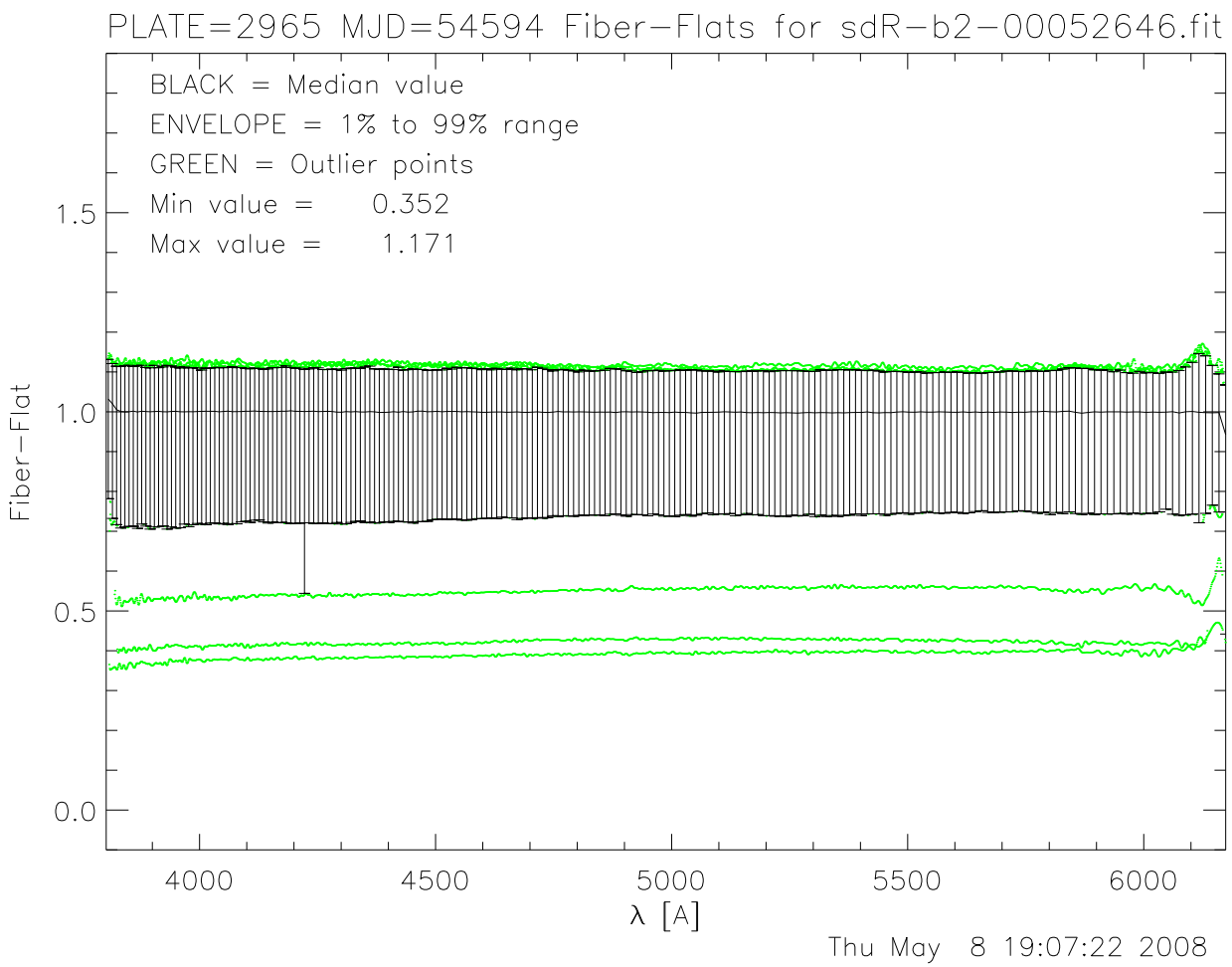

PLATE=2965 MJD=54594 sdR-b2-00052644.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

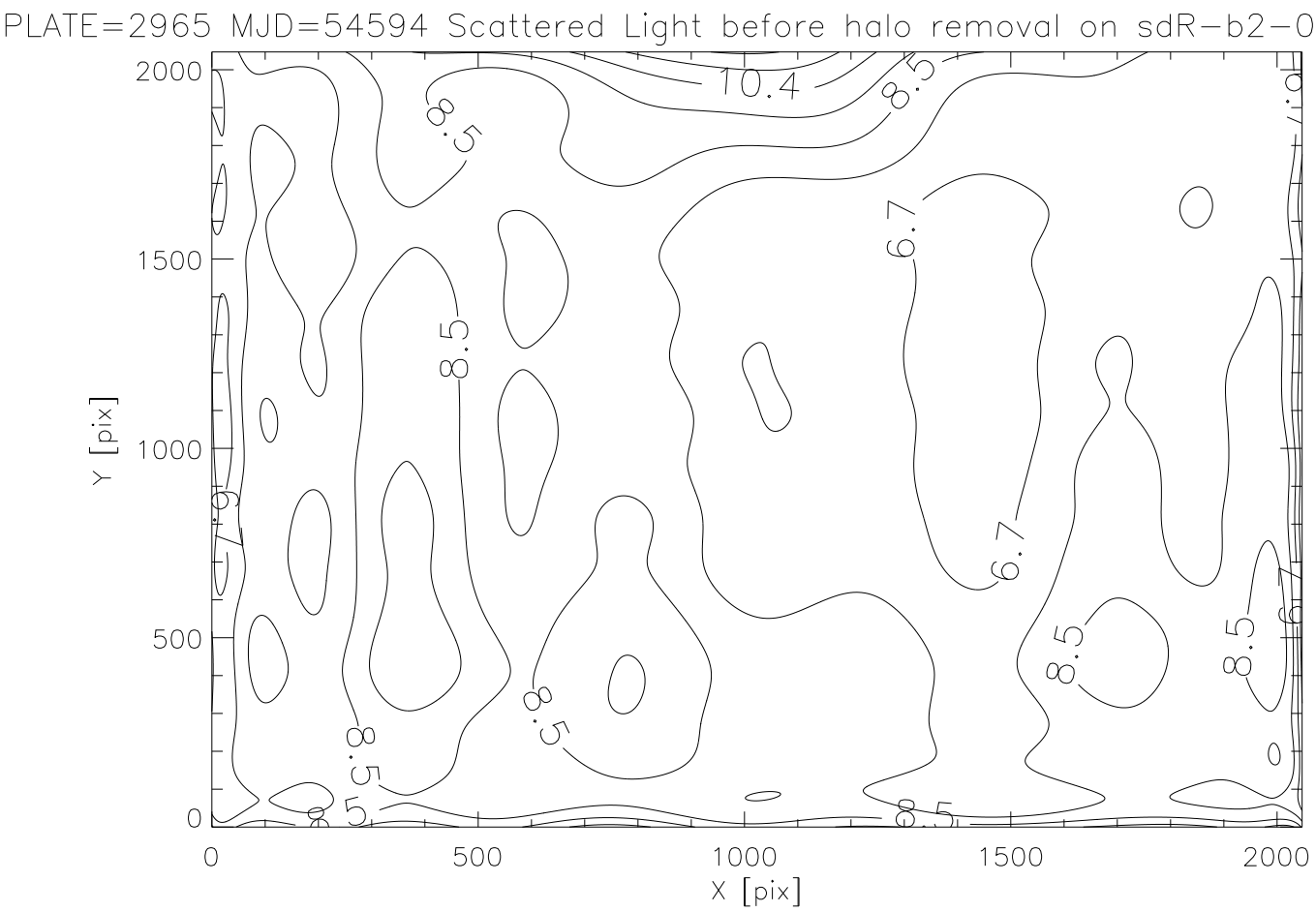

PLATE=2965 MJD=54594 sdR-b2-00052644.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

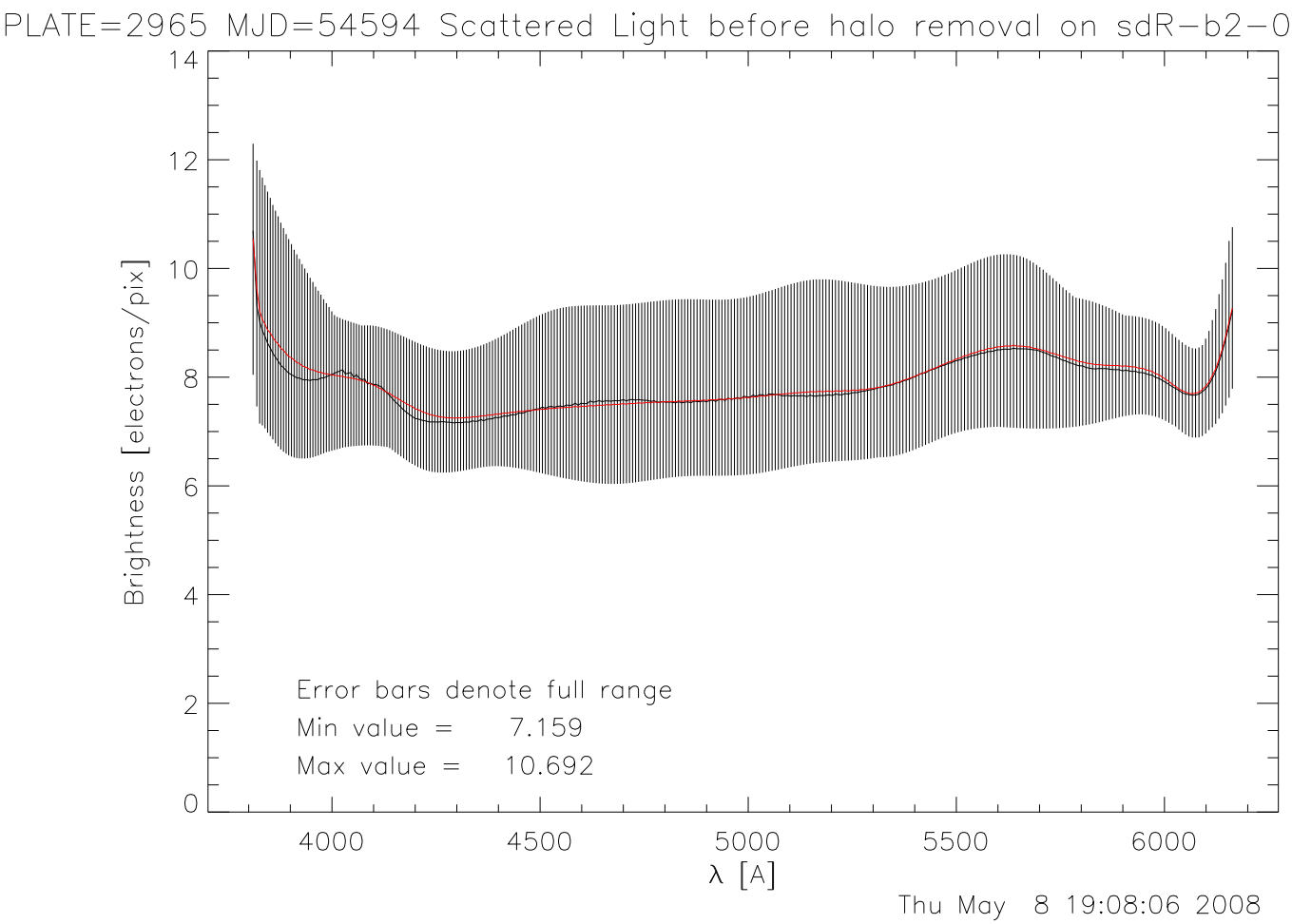

Number of sky fibers = 32
PLATE=2965 MJD=54594 sdR-b2-00052644.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

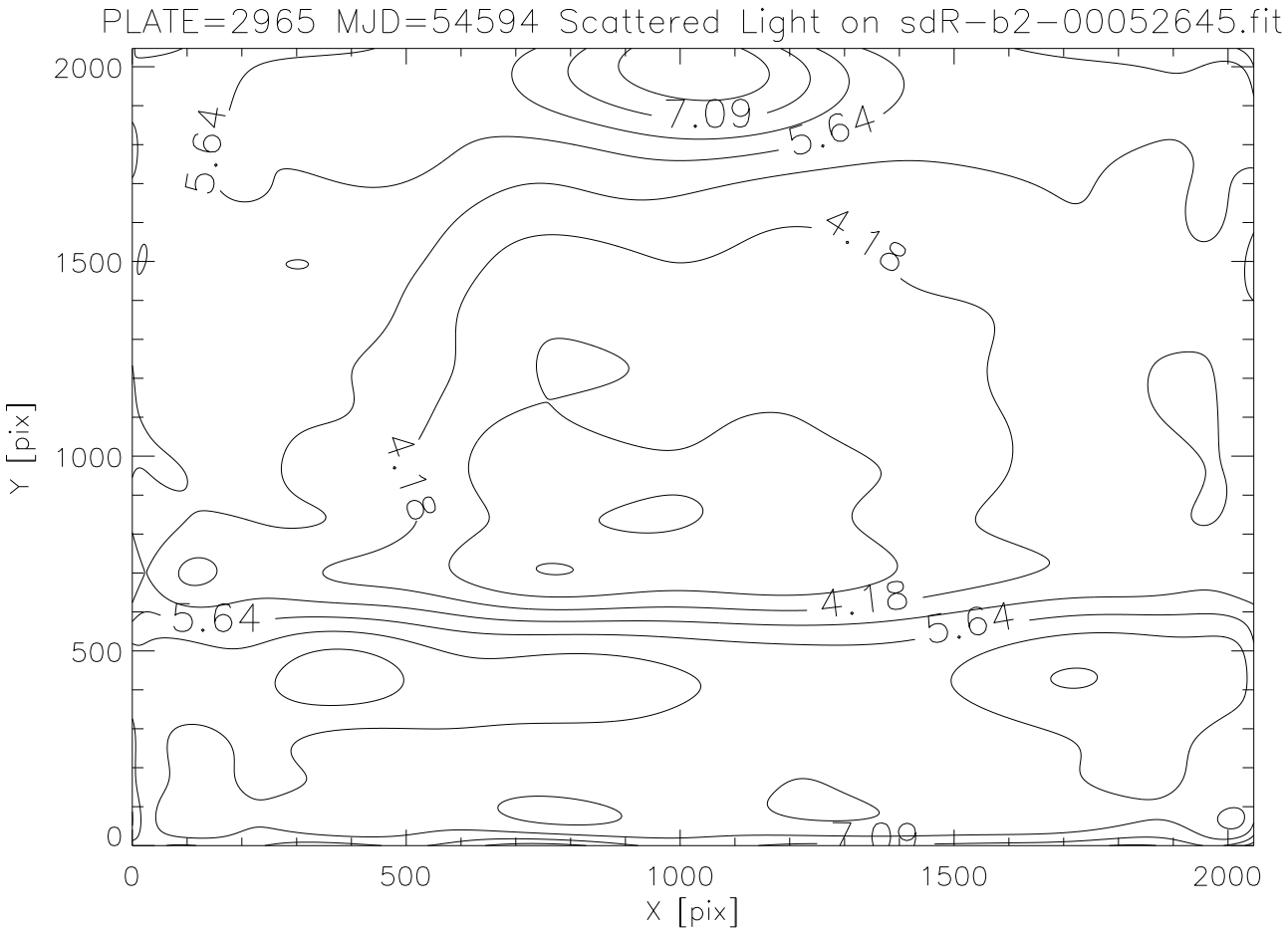

PLATE=2965 MJD=54594 sdR-b2-00052644.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 9.66 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

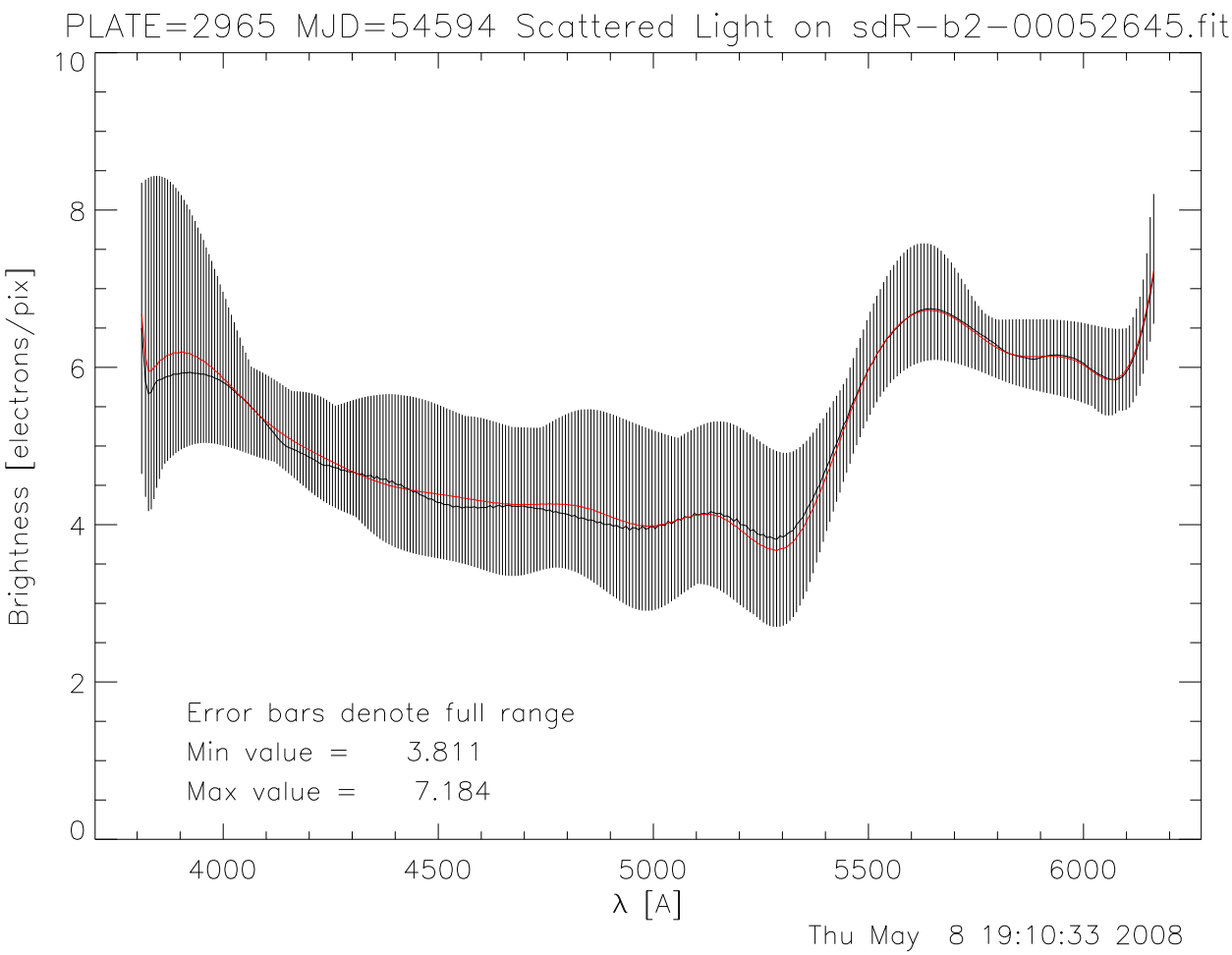

PLATE=2965 MJD=54594 sdR-b2-00052644.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.13 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

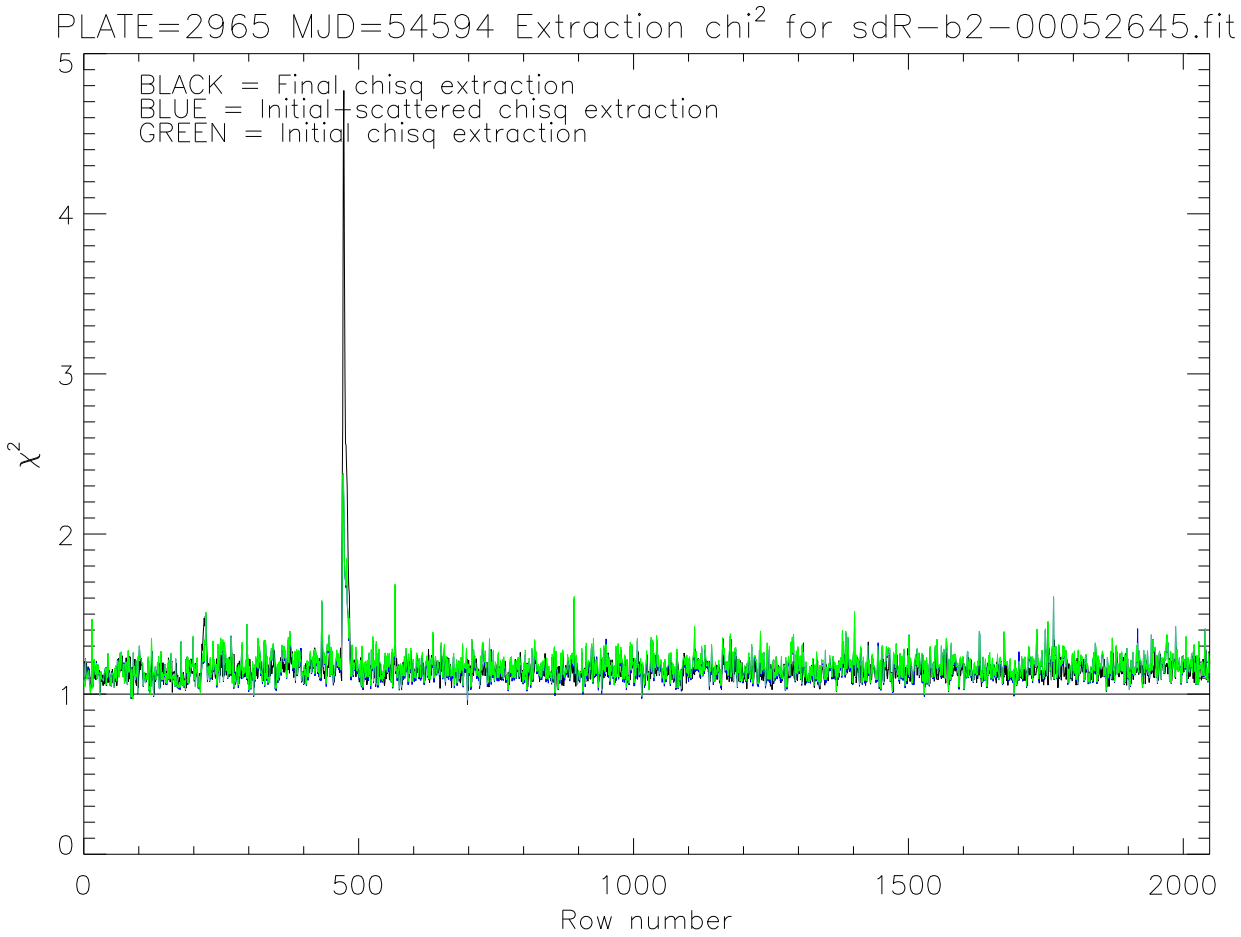

PLATE=2965 MJD=54594 Fiber-Flats for sdR-b2-00052646.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.352
Max value = 1.171
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Thu May 8 19:07:22 2008

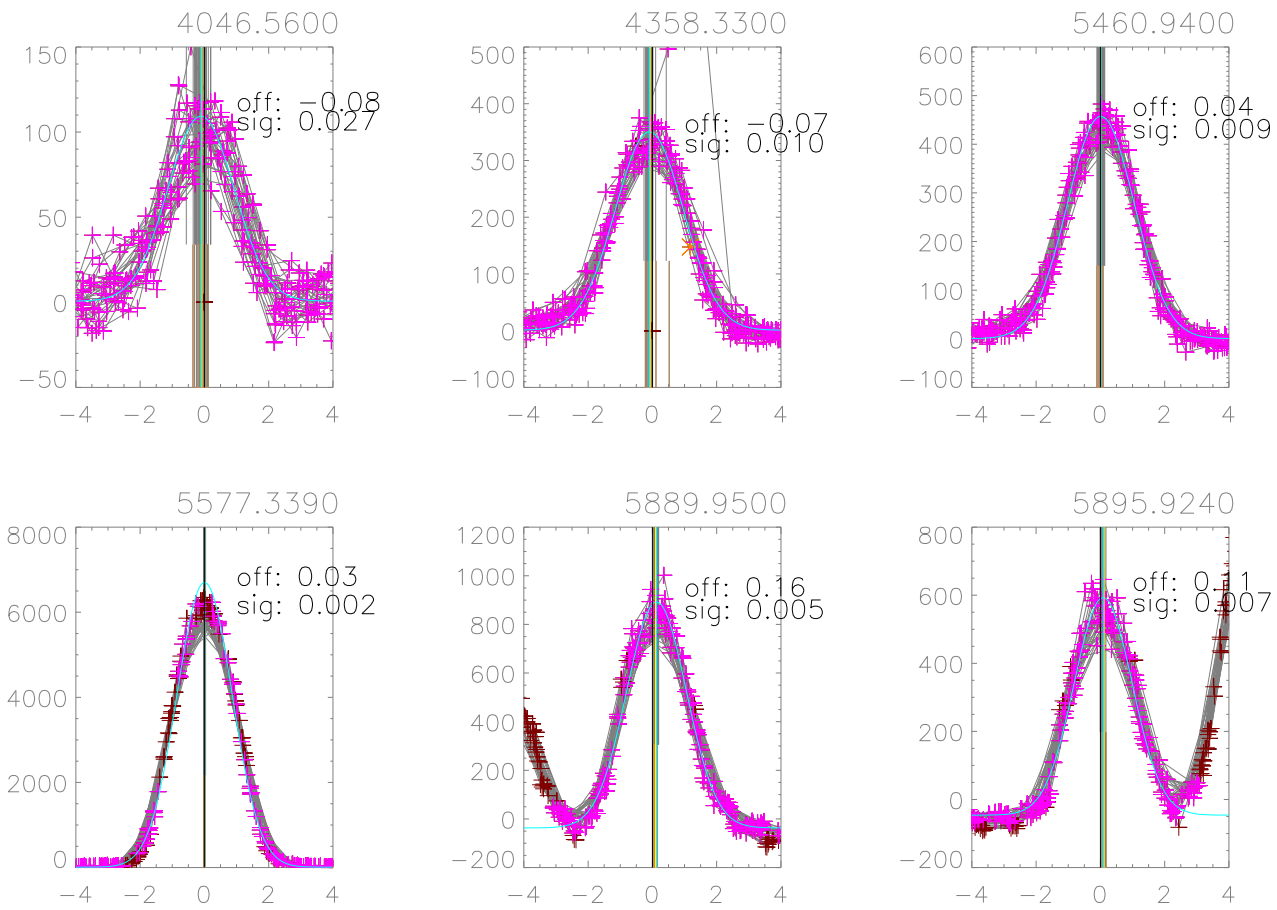

PLATE=2965 MJD=54594 Scattered Light before halo removal on sdR−b2−00052645.f
Y [pix]
X [pix]
0
500
1000
1500
2000
10.4
8.5
6.7
7.9

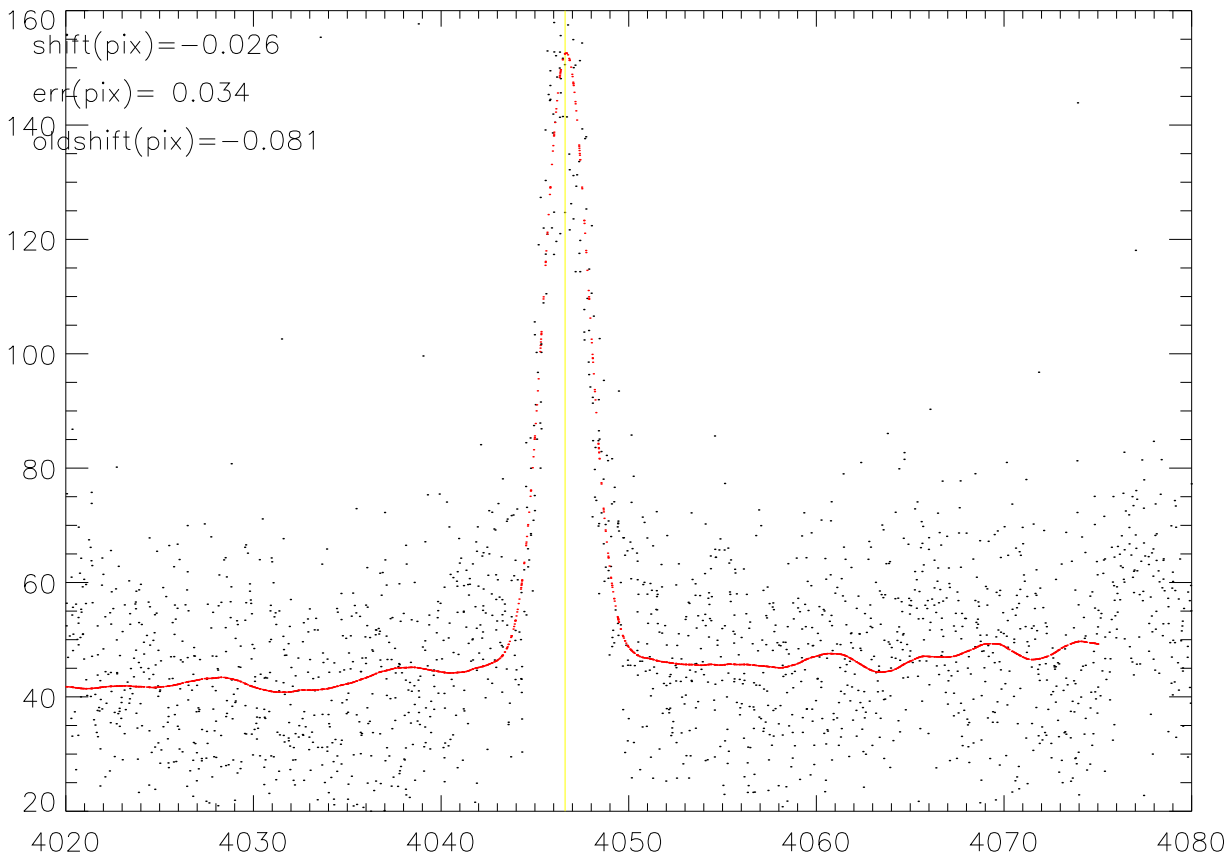

PLATE=2965 MJD=54594 Scattered Light before halo removal on sdR-b2-00052645.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.159
Max value = 10.692
Thu May 8 19:08:06 2008

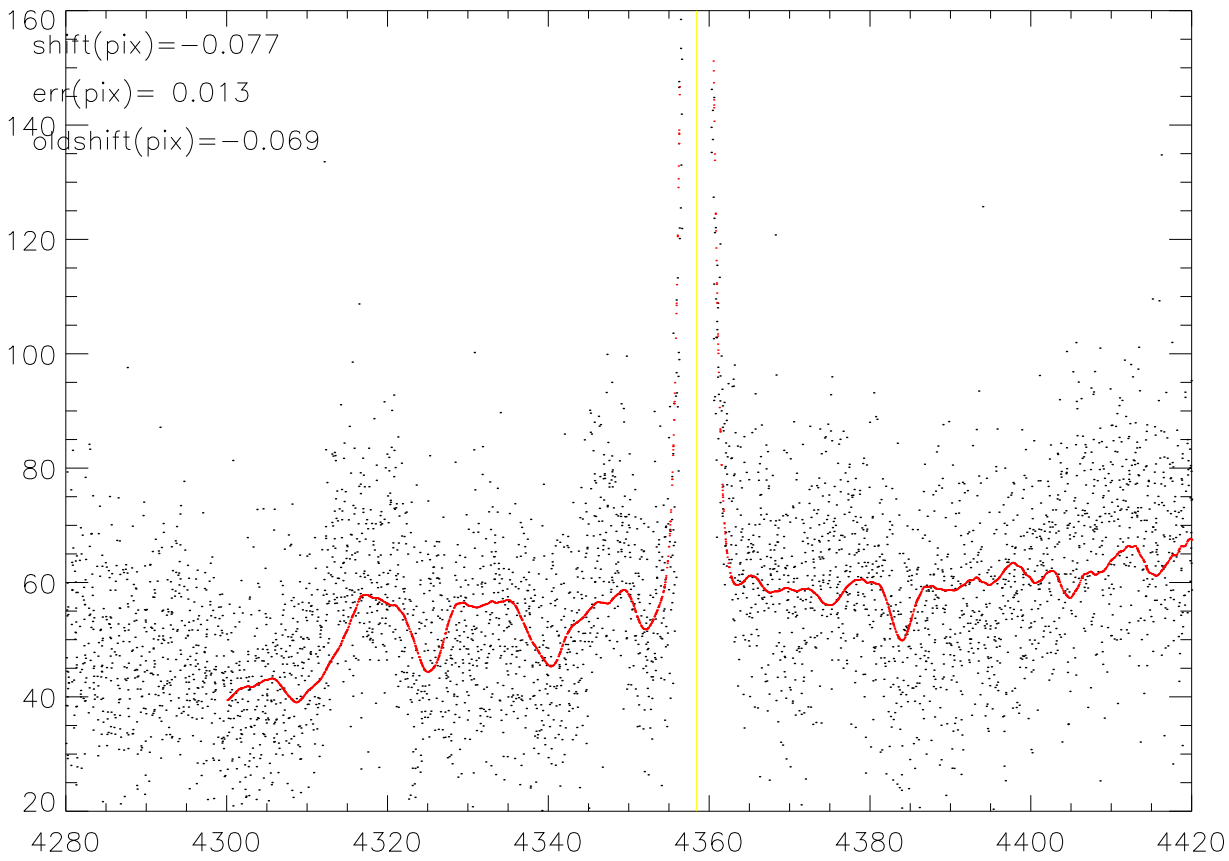

PLATE=2965 MJD=54594 Scattered Light on sdR-b2-00052645.fit
7.09
5.64
4.18
5.64
4.18
5.64
4.18
5.64
7.09
Y [pix]
X [pix]
0
500
1000
1500
2000

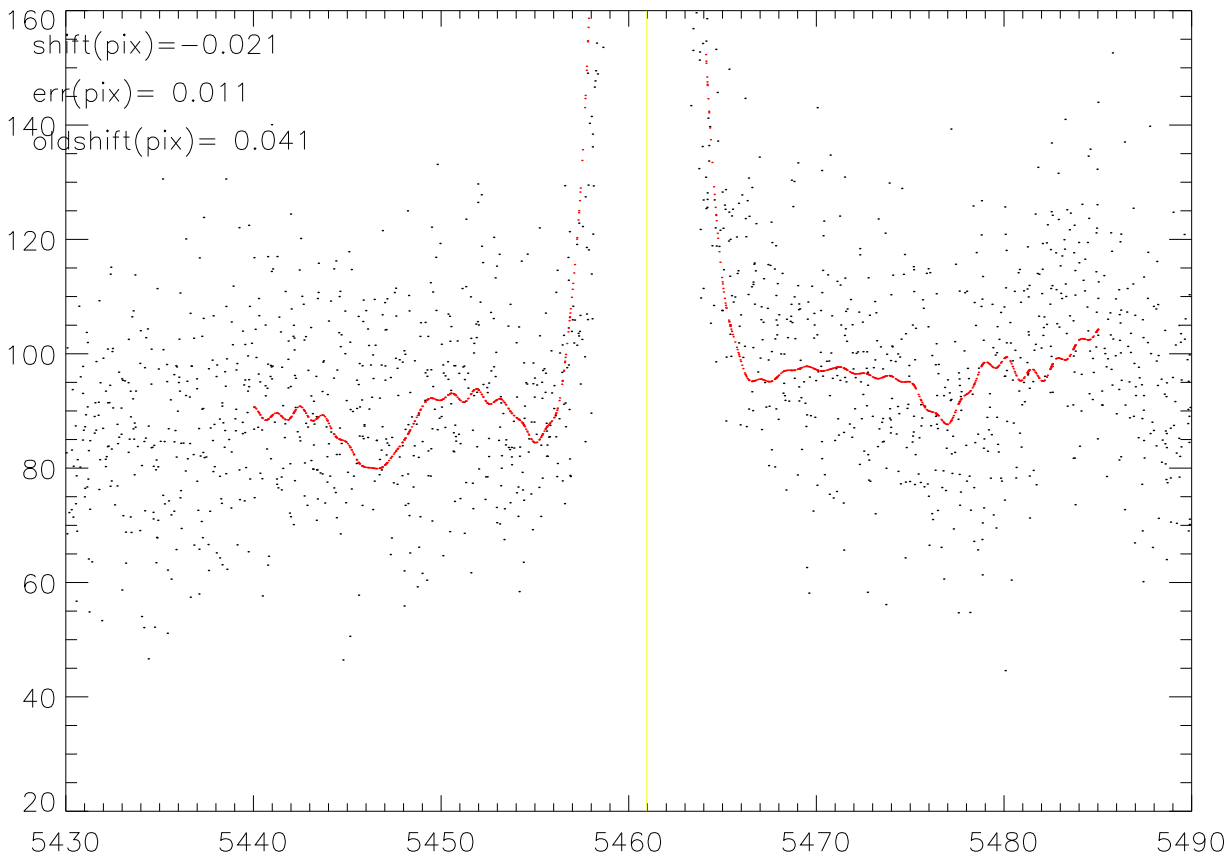

PLATE=2965 MJD=54594 Scattered Light on sdR-b2-00052645.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.811
Max value = 7.184
Thu May 8 19:10:33 2008

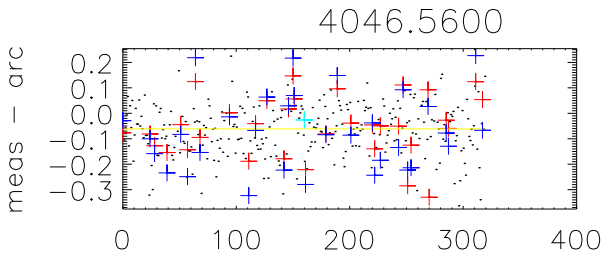

PLATE=2965 MJD=54594 Extraction chi^2 for sdR-b2-00052645.fit
BLACK = Final chisq extraction
BLUE = Initial+scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

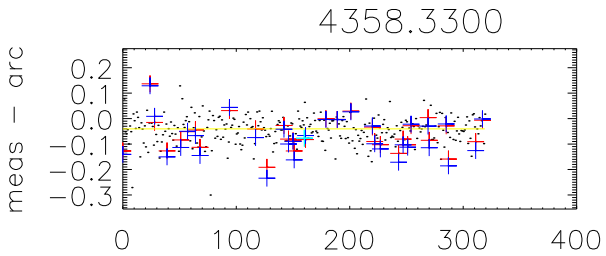

4046.5600
off: −0.08
sig: 0.027
4358.3300
off: −0.07
sig: 0.010
5460.9400
off: 0.04
sig: 0.009
5577.3390
off: 0.03
sig: 0.002
5889.9500
off: 0.16
sig: 0.005
5895.9240
off: 0.11
sig: 0.007

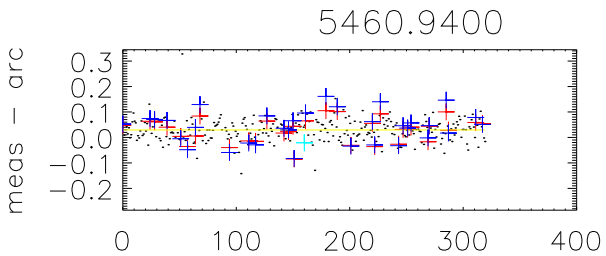

shift(pix)=−0.026
err(pix)= 0.034
oldshift(pix)=−0.081
160
140
120
100
80
60
40
20
4020
4030
4040
4050
4060
4070
4080

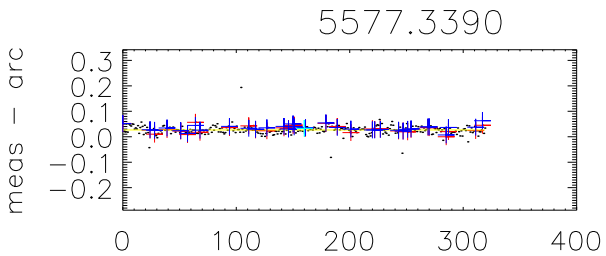

shift(pix)=−0.077
err(pix)= 0.013
oldshift(pix)=−0.069
160
140
120
100
80
60
40
20
4280
4300
4320
4340
4360
4380
4400
4420

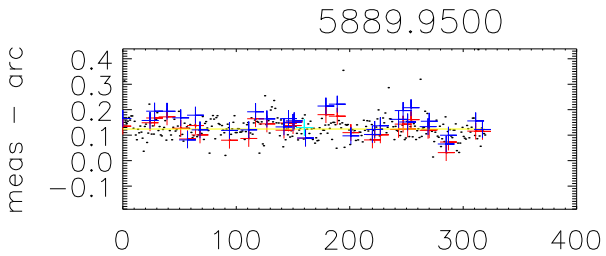

shift(pix)=−0.021
err(pix)= 0.011
oldshift(pix)= 0.041
160
140
120
100
80
60
40
20
5430
5440
5450
5460
5470
5480
5490

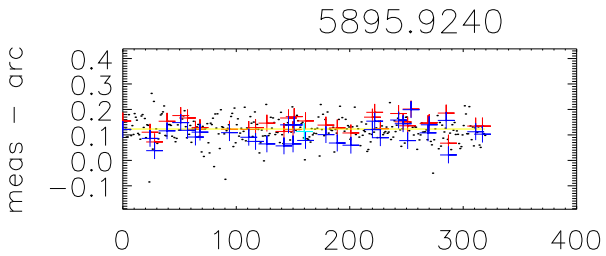

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

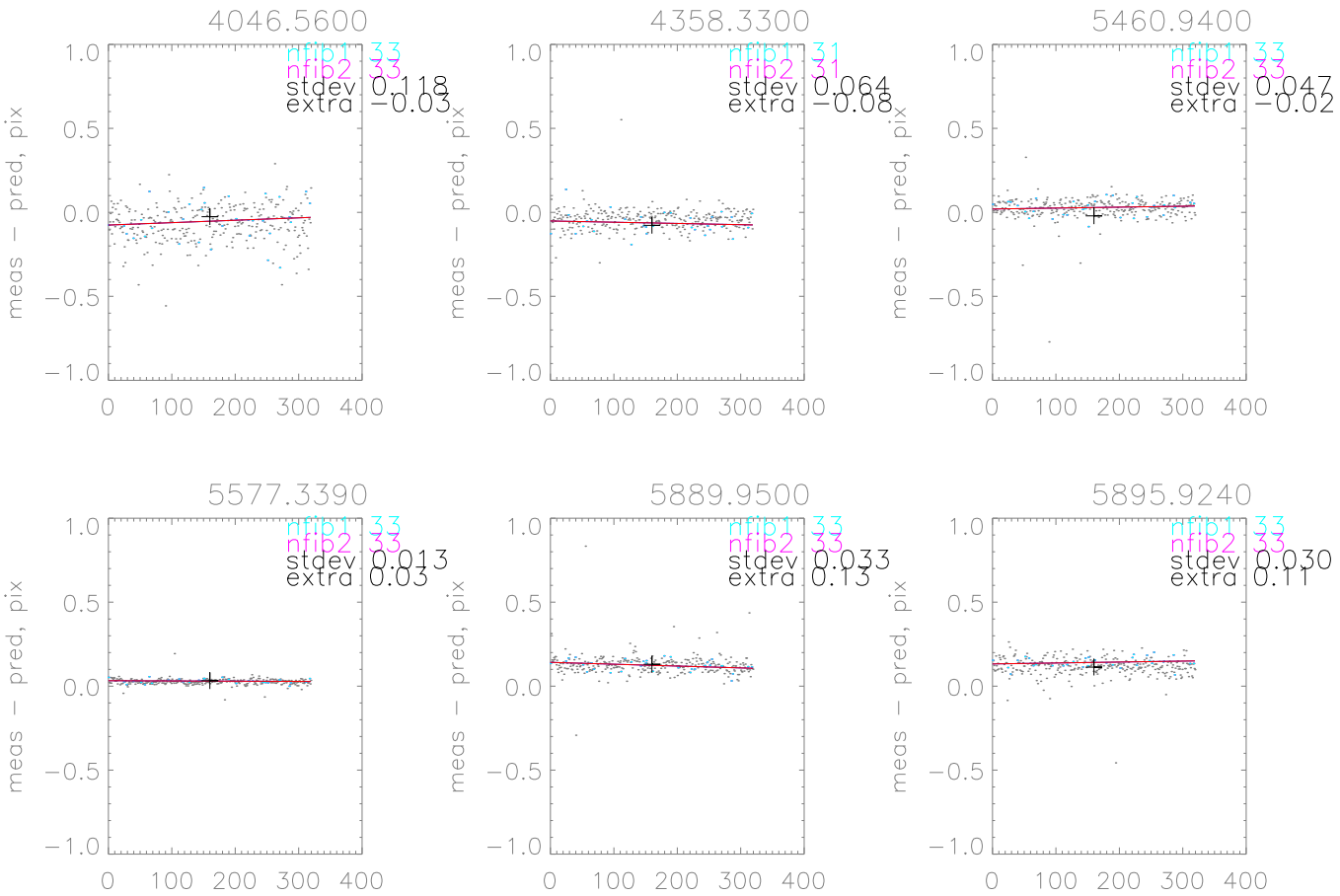

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

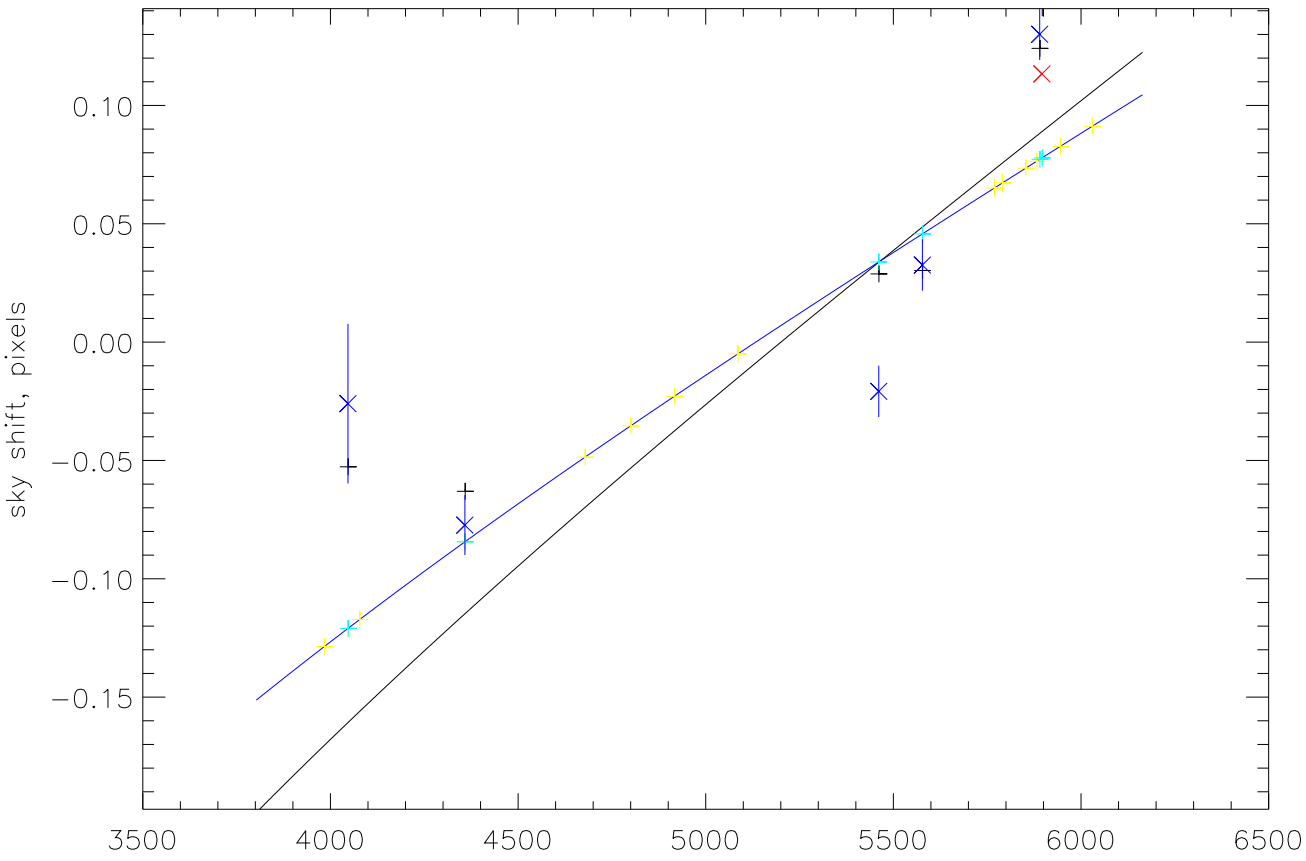

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

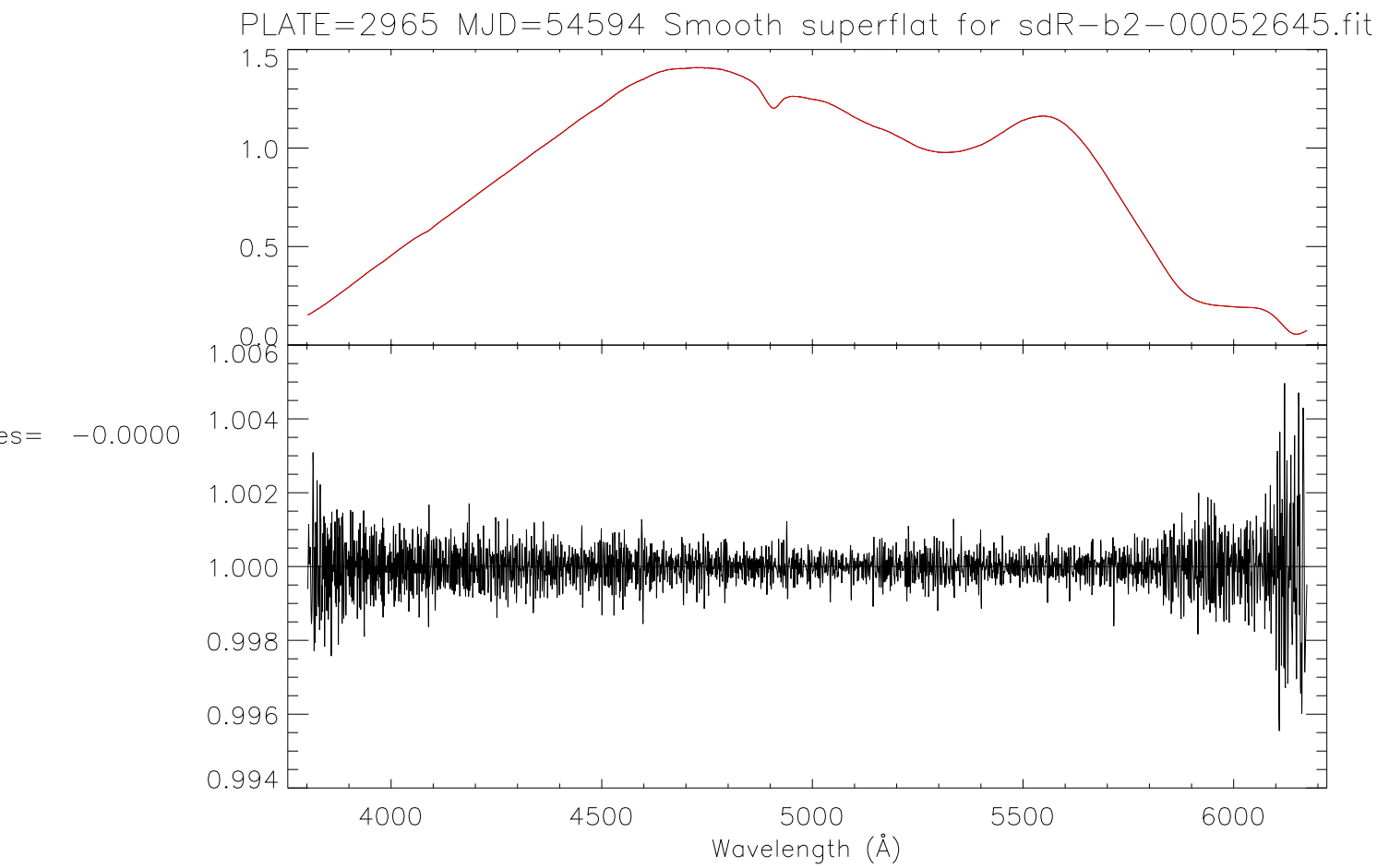

5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

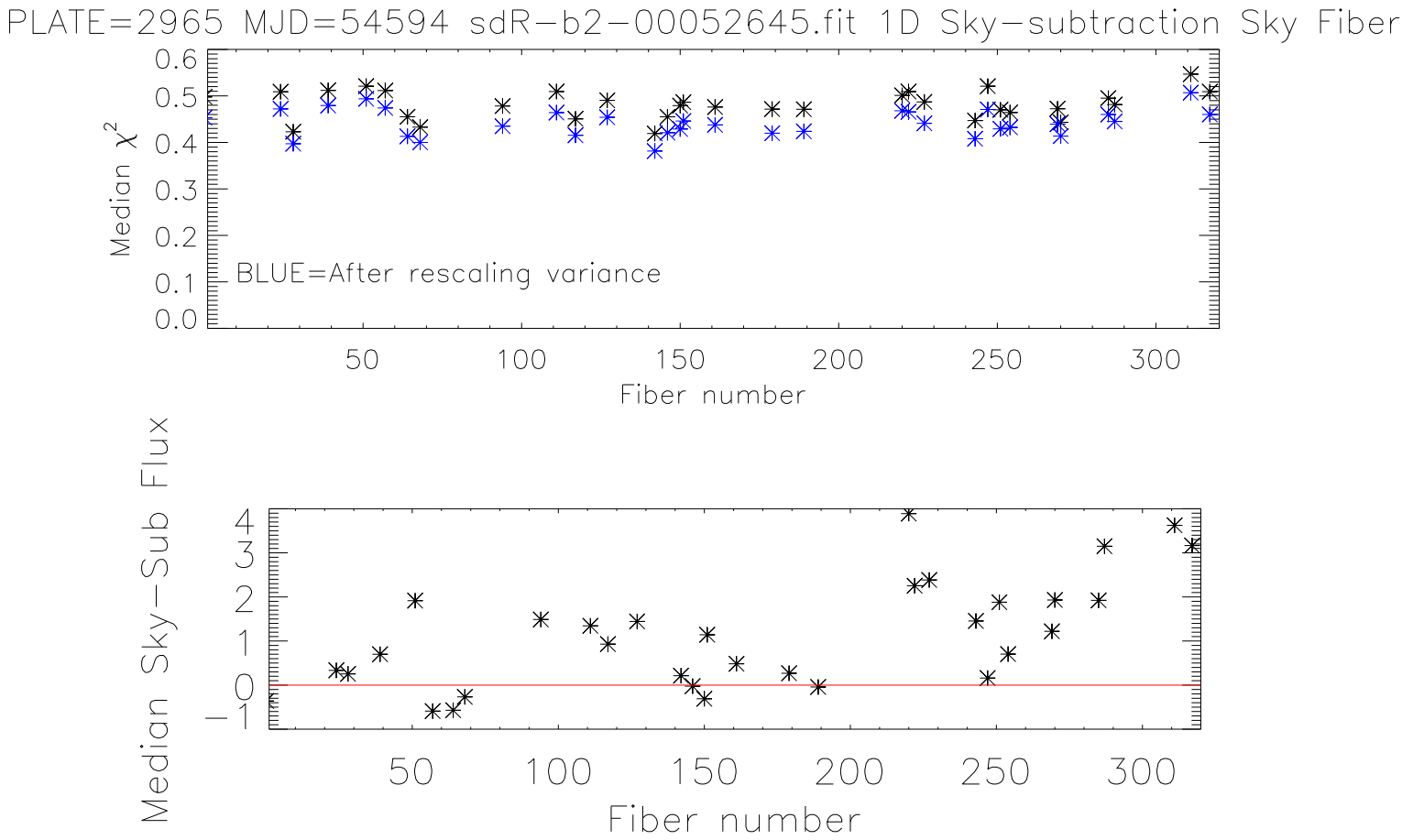

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

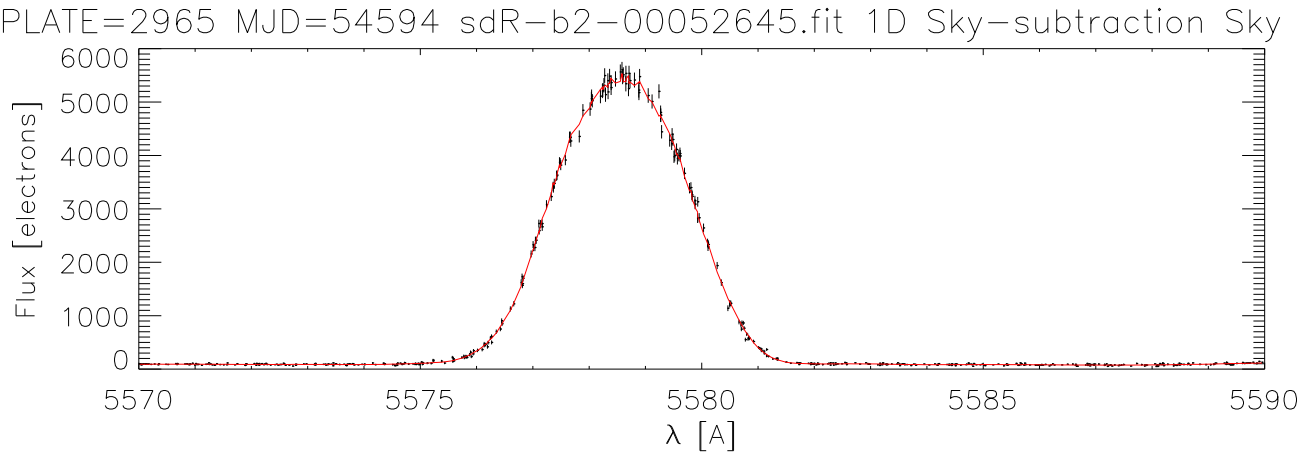

4046.5600
nfib1 33
nfib2 33
stdev 0.118
extra −0.03
4358.3300
nfib1 31
nfib2 31
stdev 0.064
extra −0.08
5460.9400
nfib1 33
nfib2 33
stdev 0.047
extra −0.02
5577.3390
nfib1 33
nfib2 33
stdev 0.013
extra 0.03
5889.9500
nfib1 33
nfib2 33
stdev 0.033
extra 0.13
5895.9240
nfib1 33
nfib2 33
stdev 0.030
extra 0.11
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

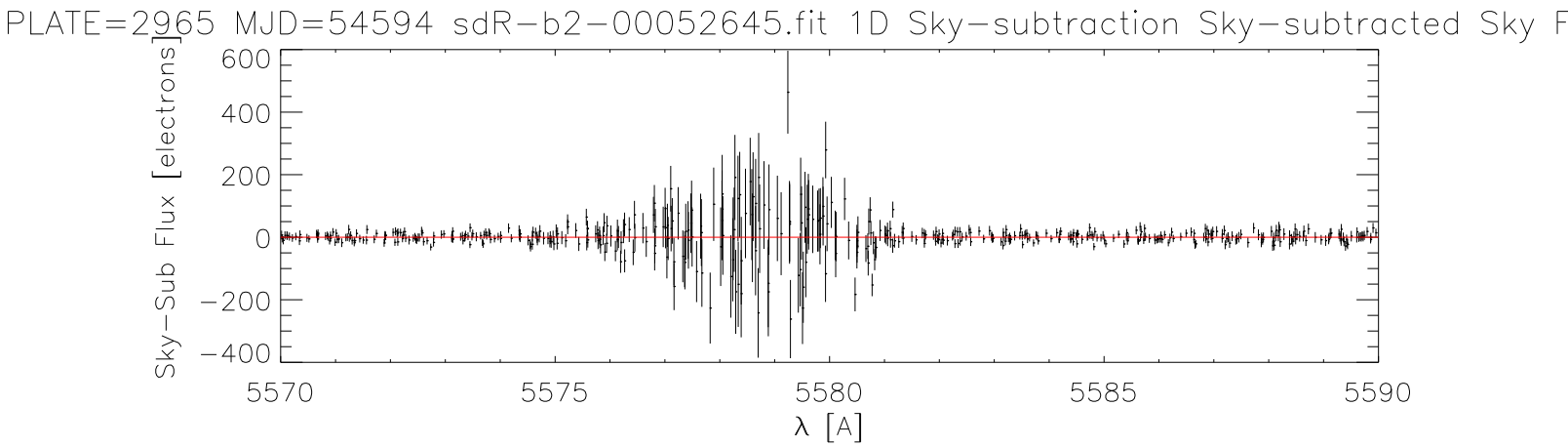

sky shift, pixels
0.10
0.05
0.00
−0.05
−0.10
−0.15
3500
4000
4500
5000
5500
6000
6500

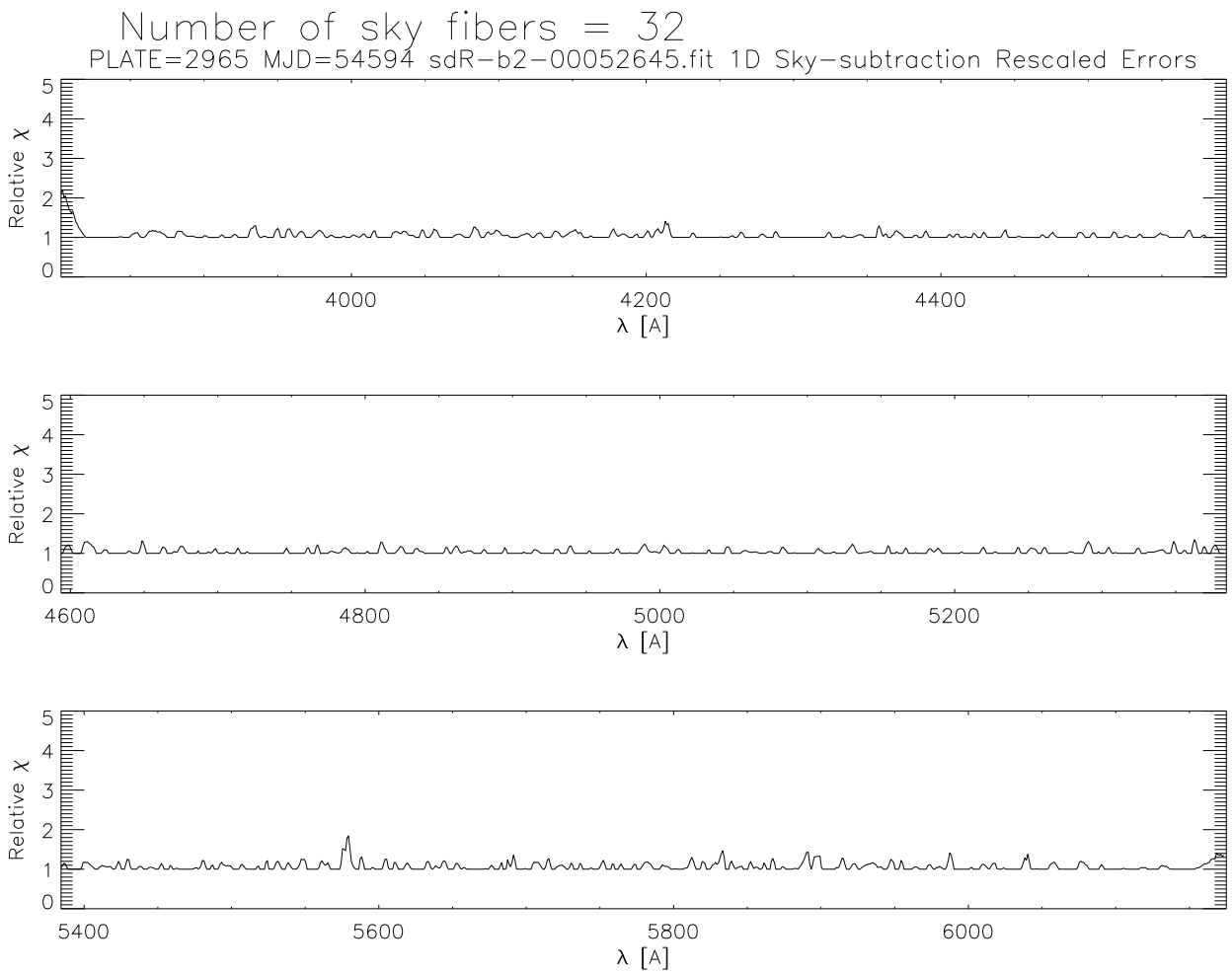

PLATE=2965 MJD=54594 Smooth superflat for sdR-b2-00052645.fit
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
4000
4500
5000
5500
6000
Wavelength (Å)

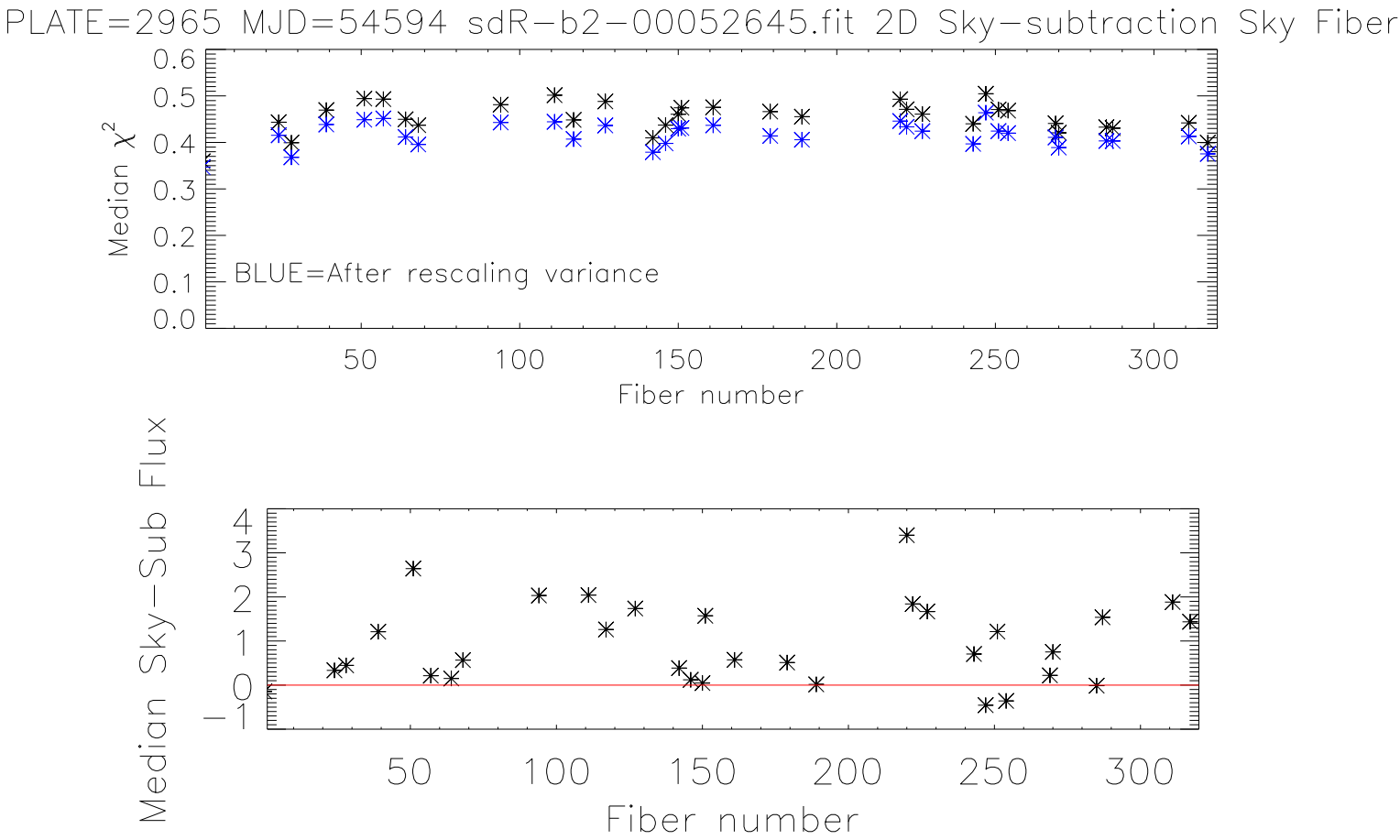
es= −0.0000

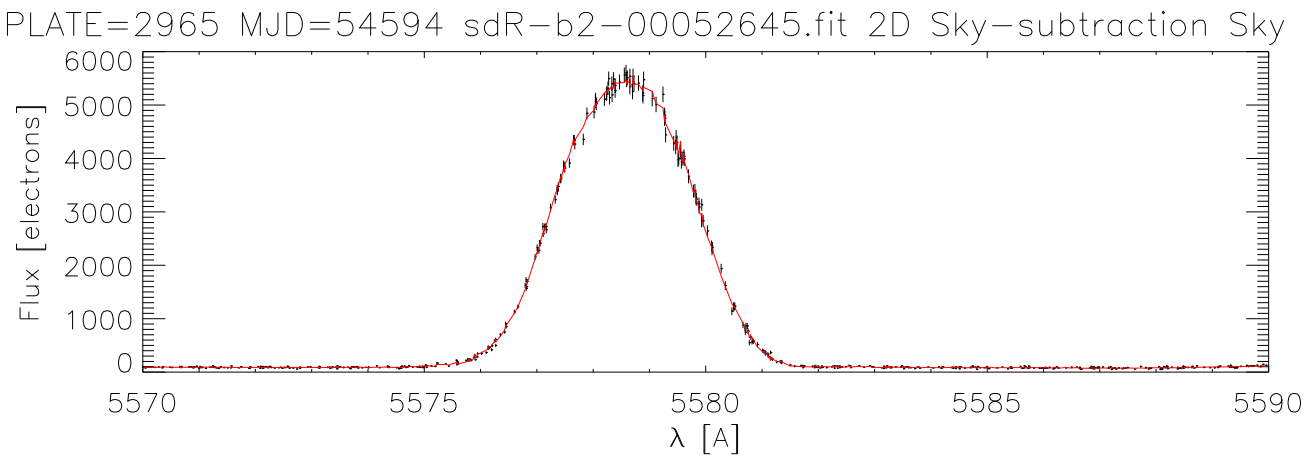

PLATE=2965 MJD=54594 sdR-b2-00052645.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

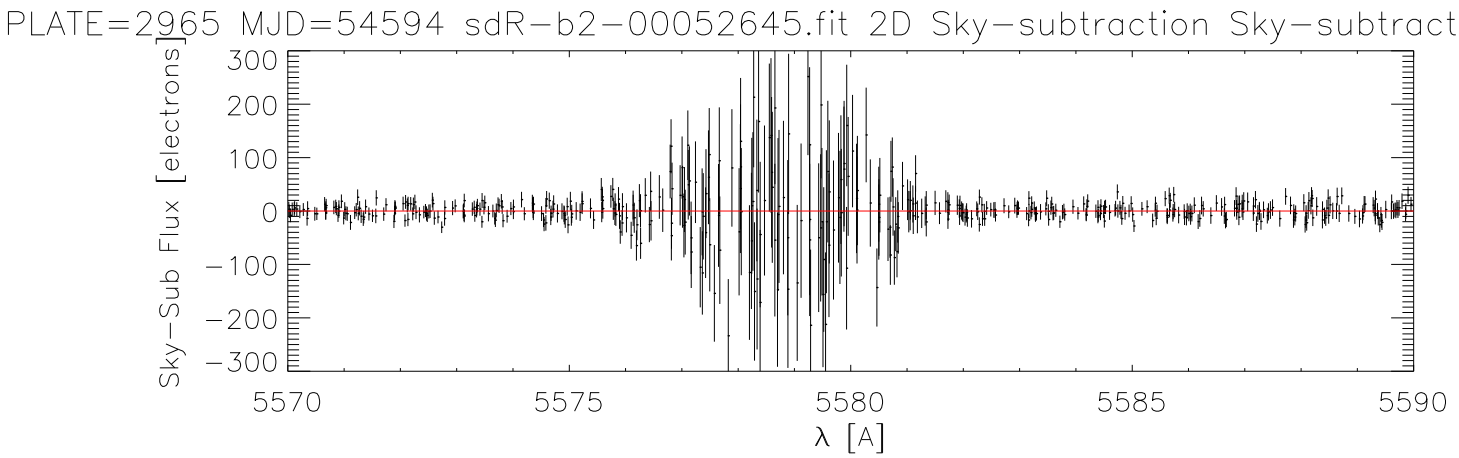

PLATE=2965 MJD=54594 sdR-b2-00052645.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

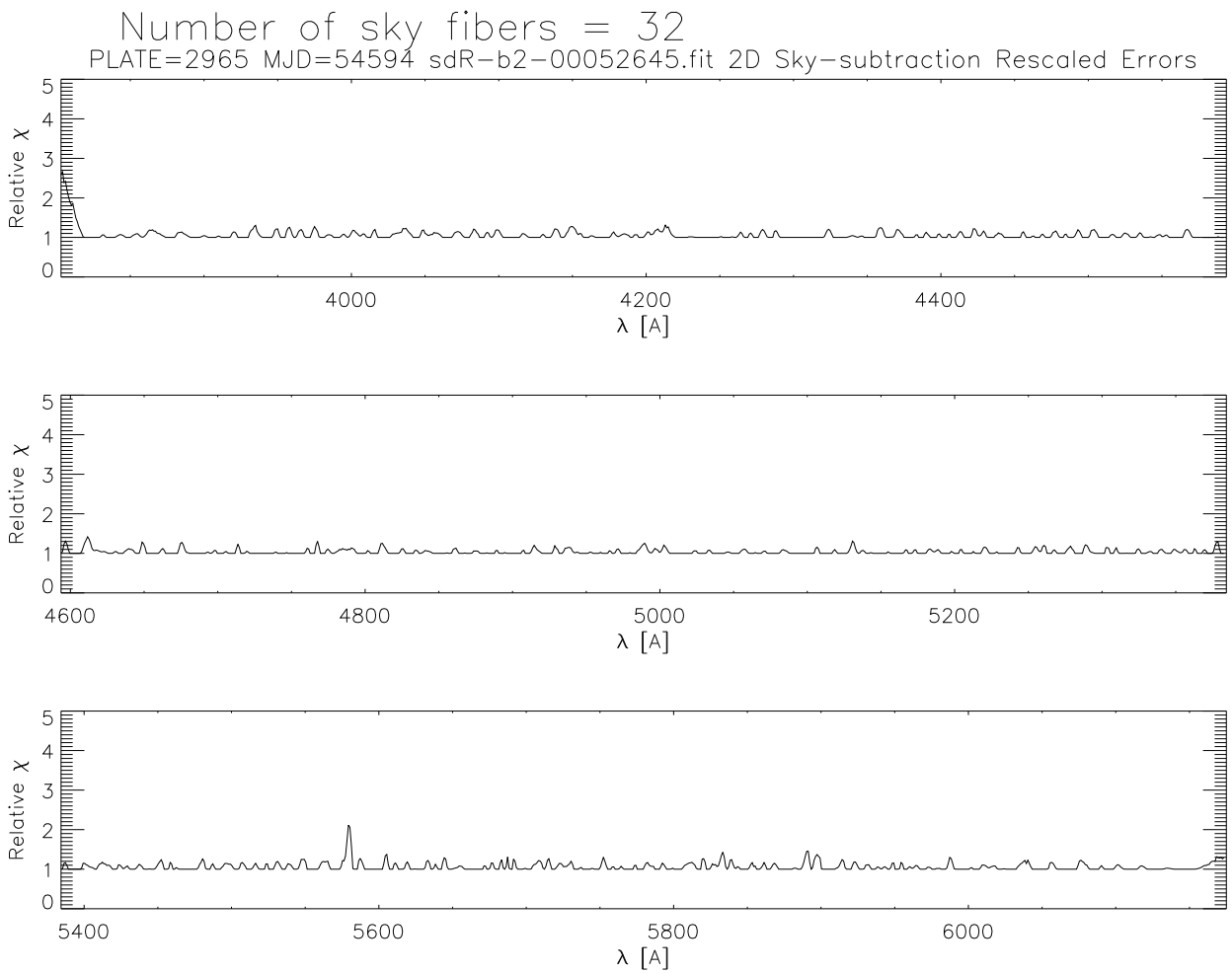

PLATE=2965 MJD=54594 sdR-b2-00052645.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

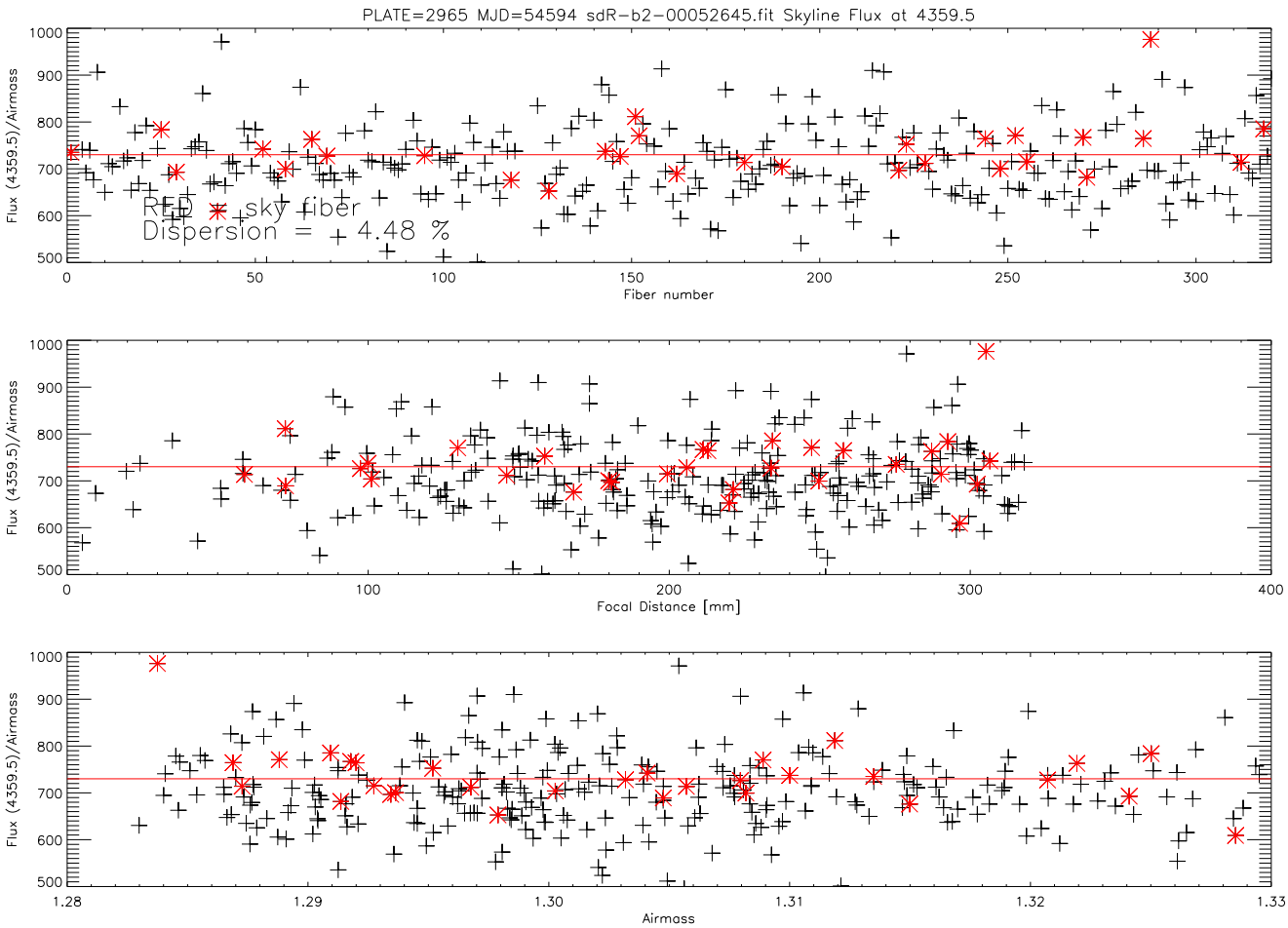

Number of sky fibers = 32
PLATE=2965 MJD=54594 sdR-b2-00052645.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

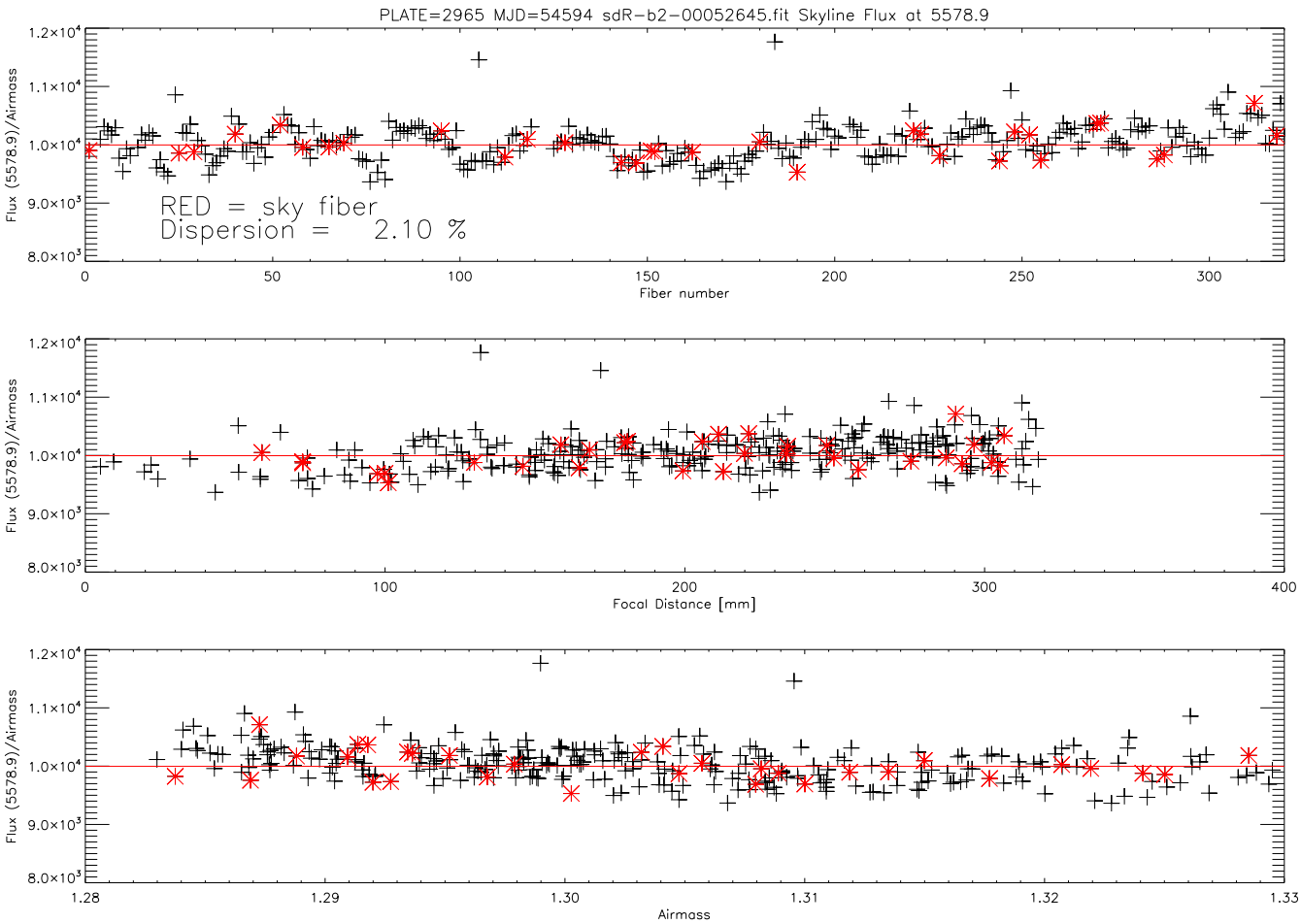

PLATE=2965 MJD=54594 sdR-b2-00052645.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

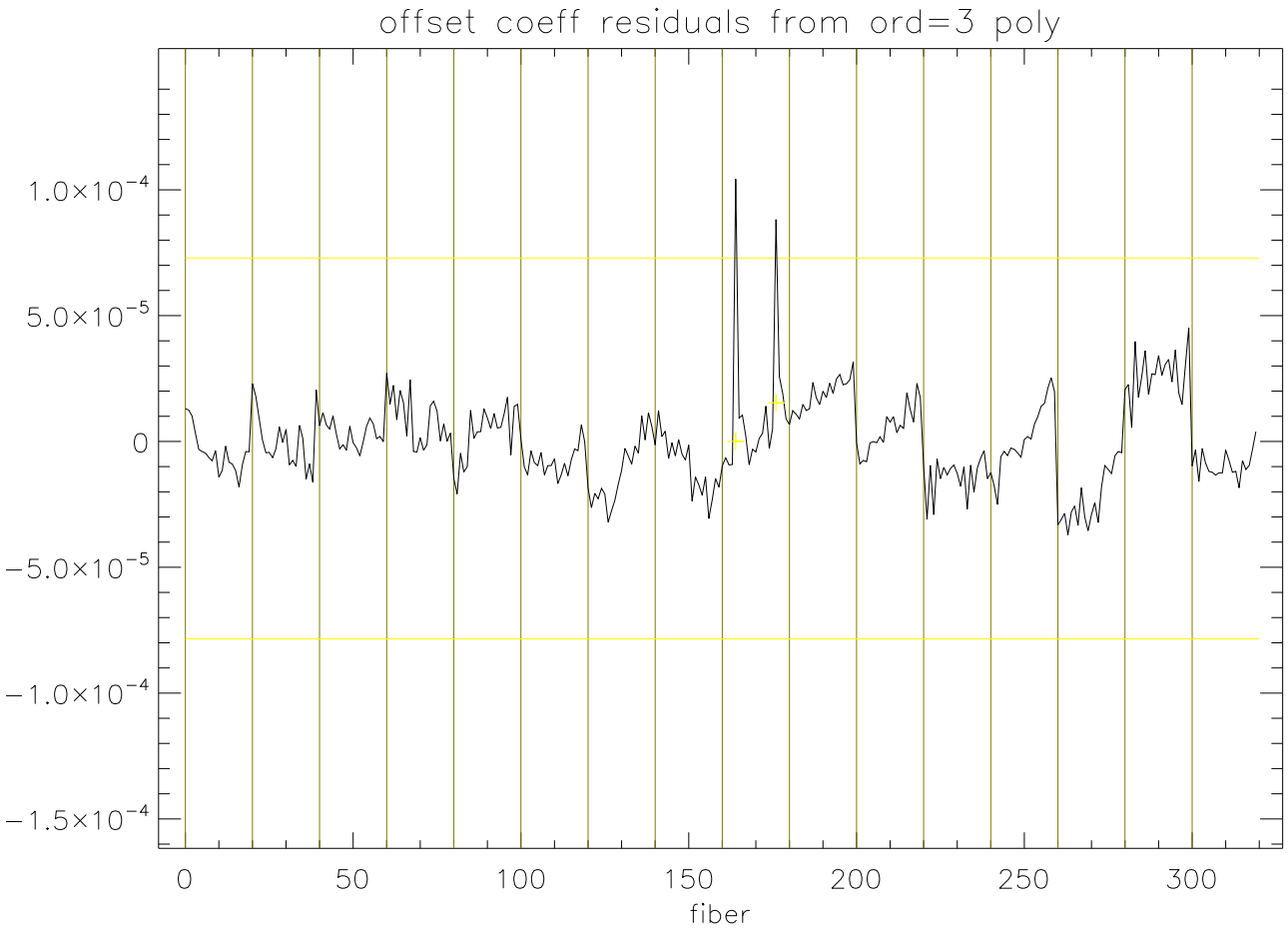

PLATE=2965 MJD=54594 sdR-b2-00052645.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

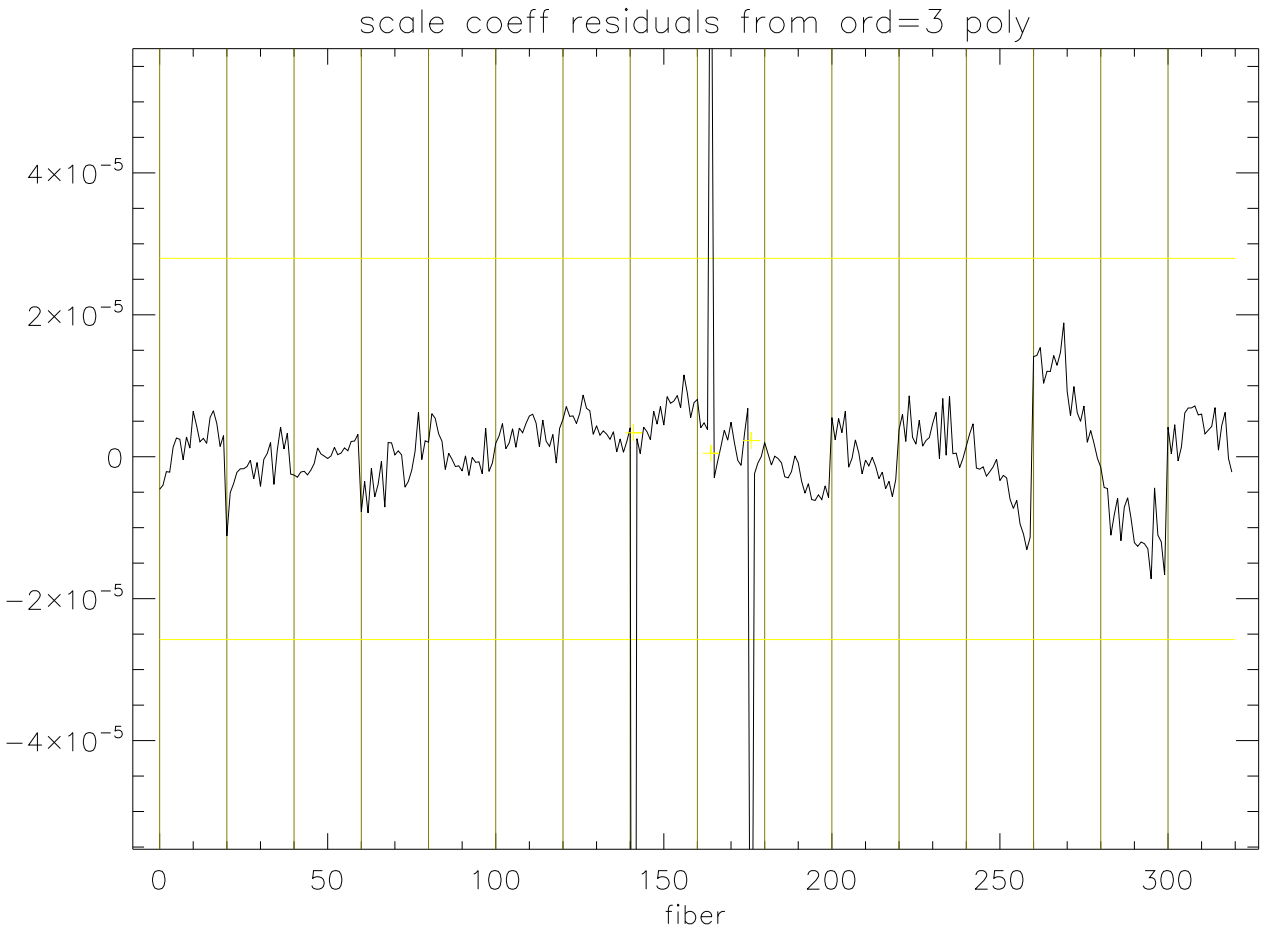

PLATE=2965 MJD=54594 sdR-b2-00052645.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

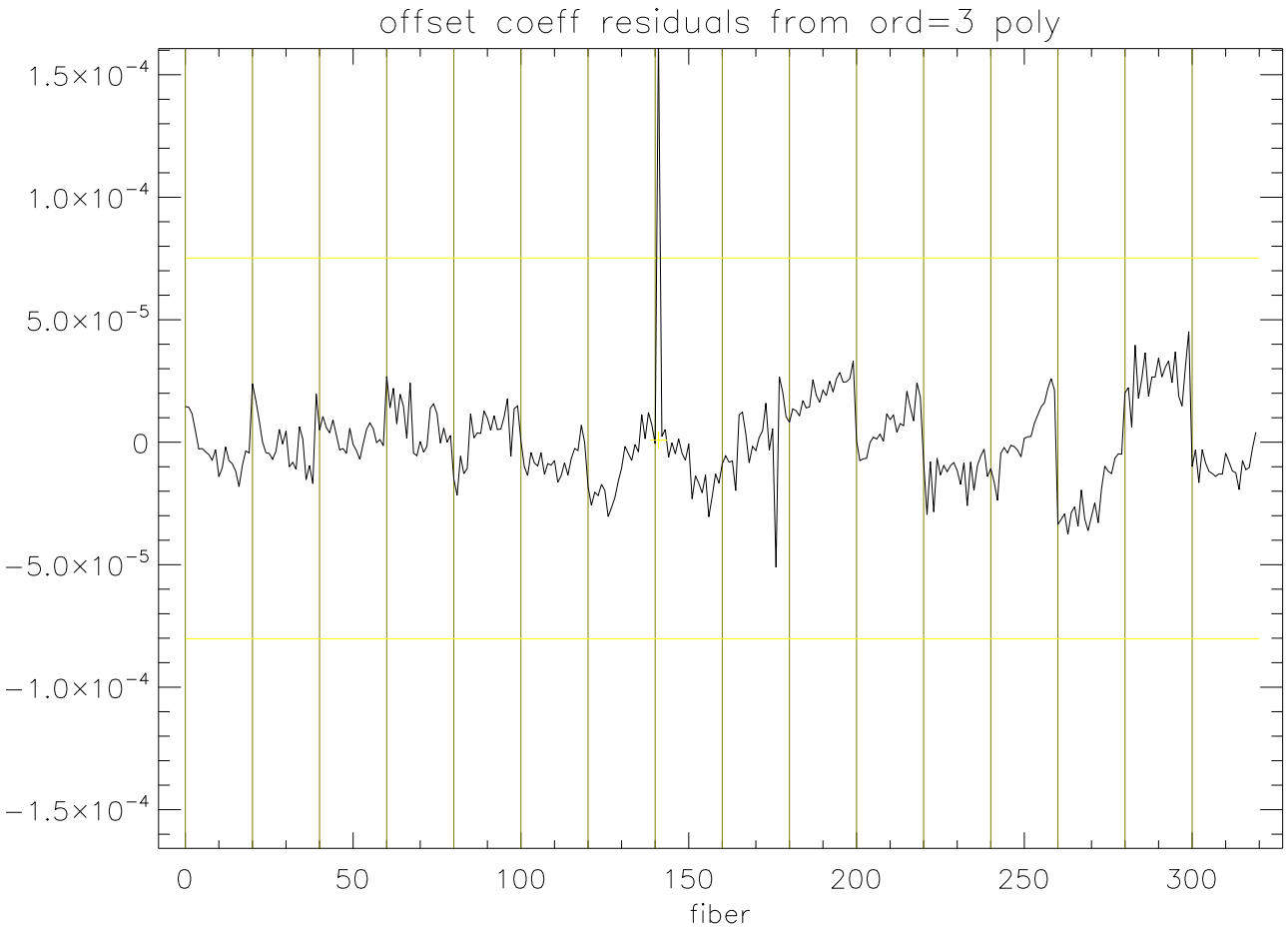

Number of sky fibers = 32
PLATE=2965 MJD=54594 sdR-b2-00052645.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

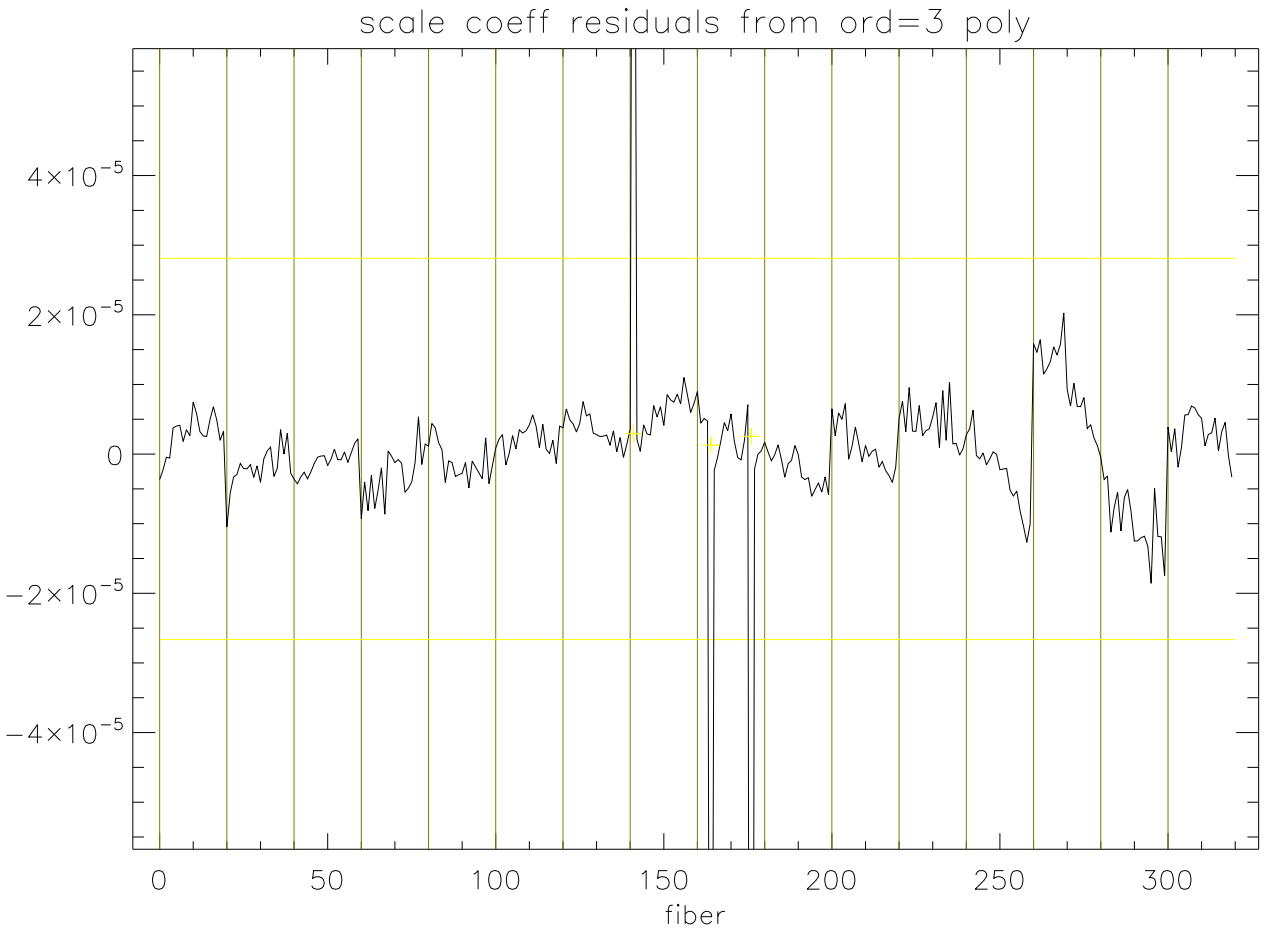

PLATE=2965 MJD=54594 sdR-b2-00052645.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
Red sky fiber
Dispersion = +4.48 %
Focal Distance [mm]
Airmass

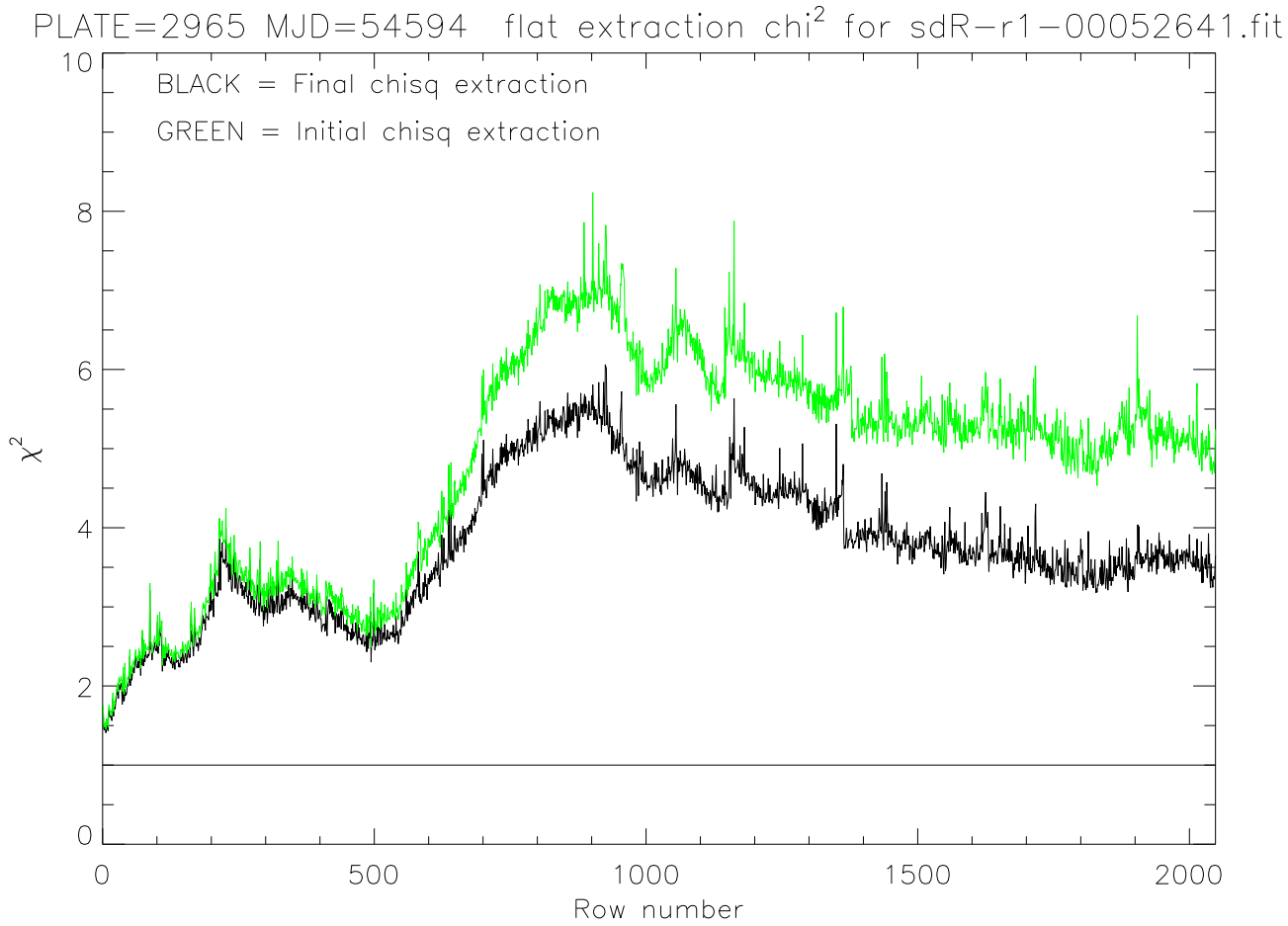

PLATE=2965 MJD=54594 sdR-b2-00052645.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.10 %
Fiber number
Focal Distance [mm]
Airmass

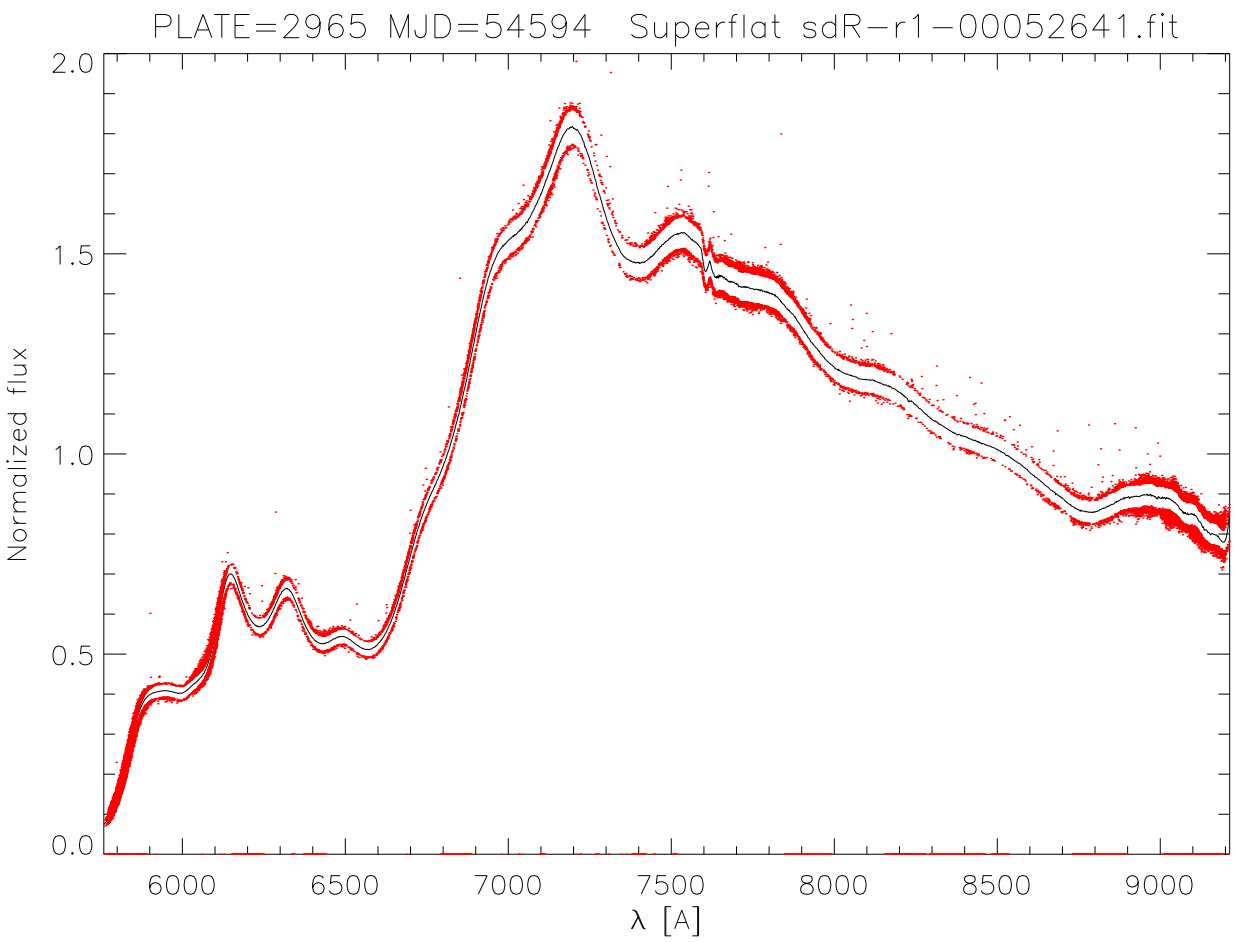

offset coeff residuals from ord=3 poly
1.0×10^-4
5.0×10^-5
0
−5.0×10^-5
−1.0×10^-4
−1.5×10^-4
0
50
100
150
200
250
300
fiber

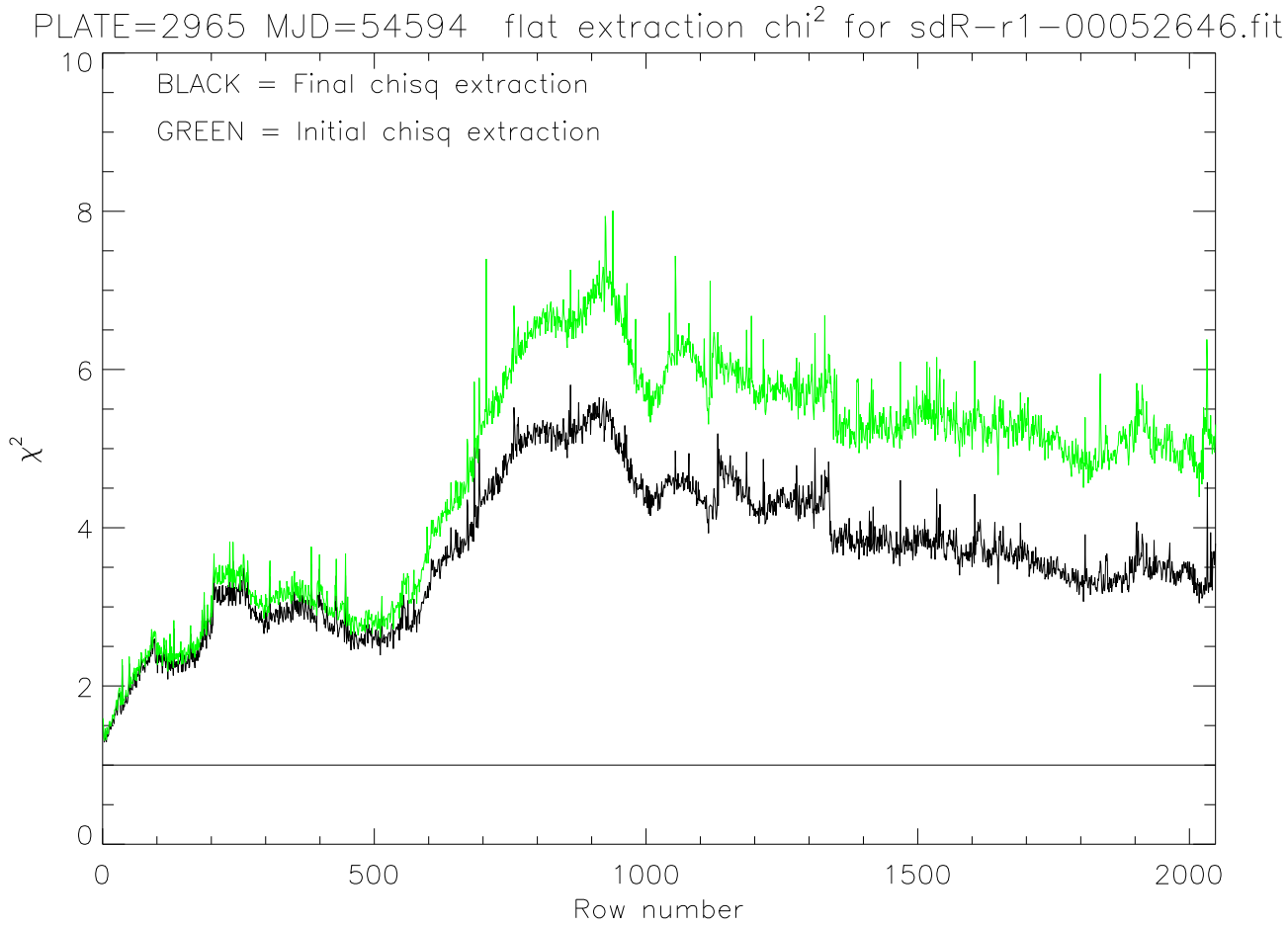

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

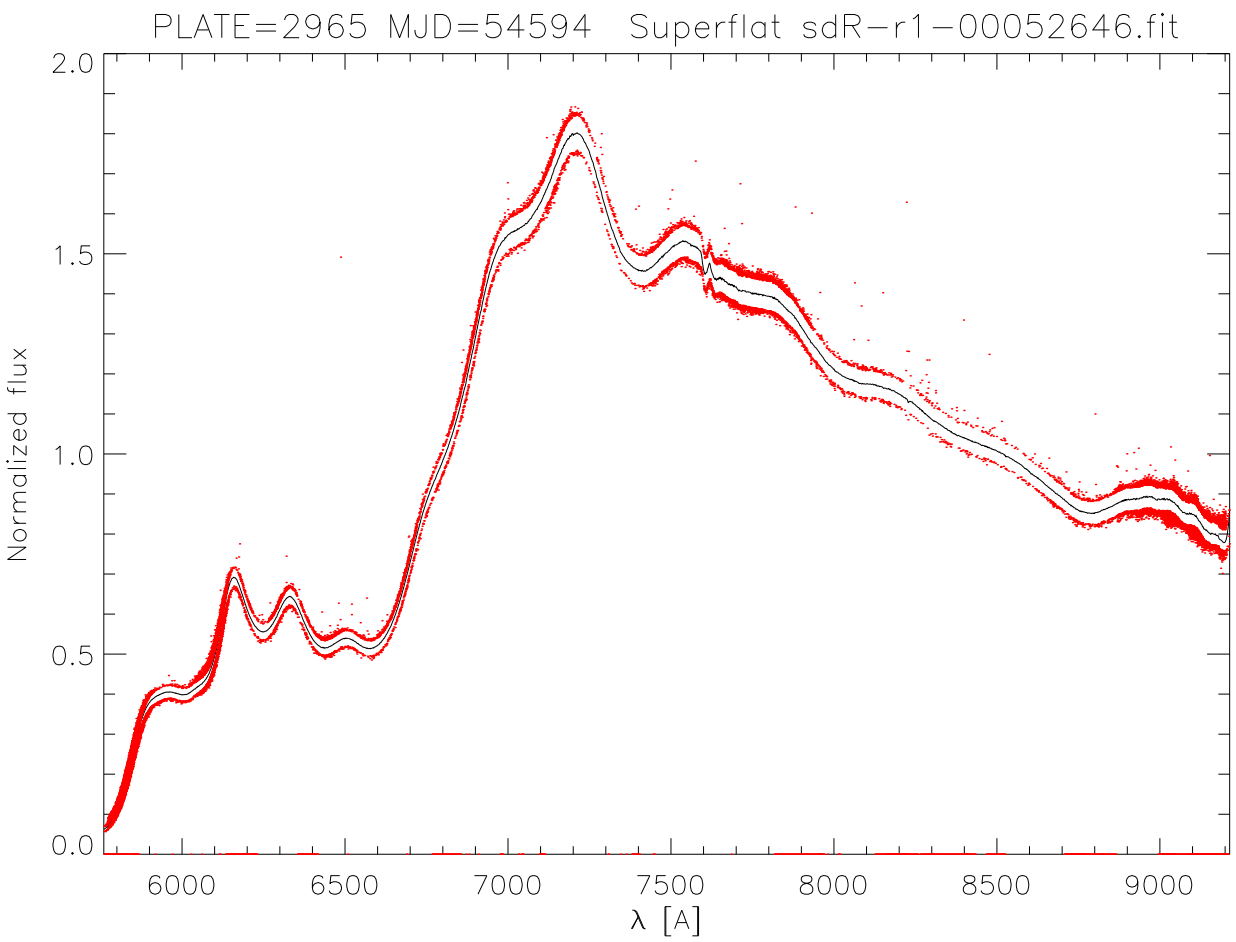

offset coeff residuals from ord=3 poly
1.5×10^-4
1.0×10^-4
5.0×10^-5
0
−5.0×10^-5
−1.0×10^-4
−1.5×10^-4
0
50
100
150
200
250
300
fiber

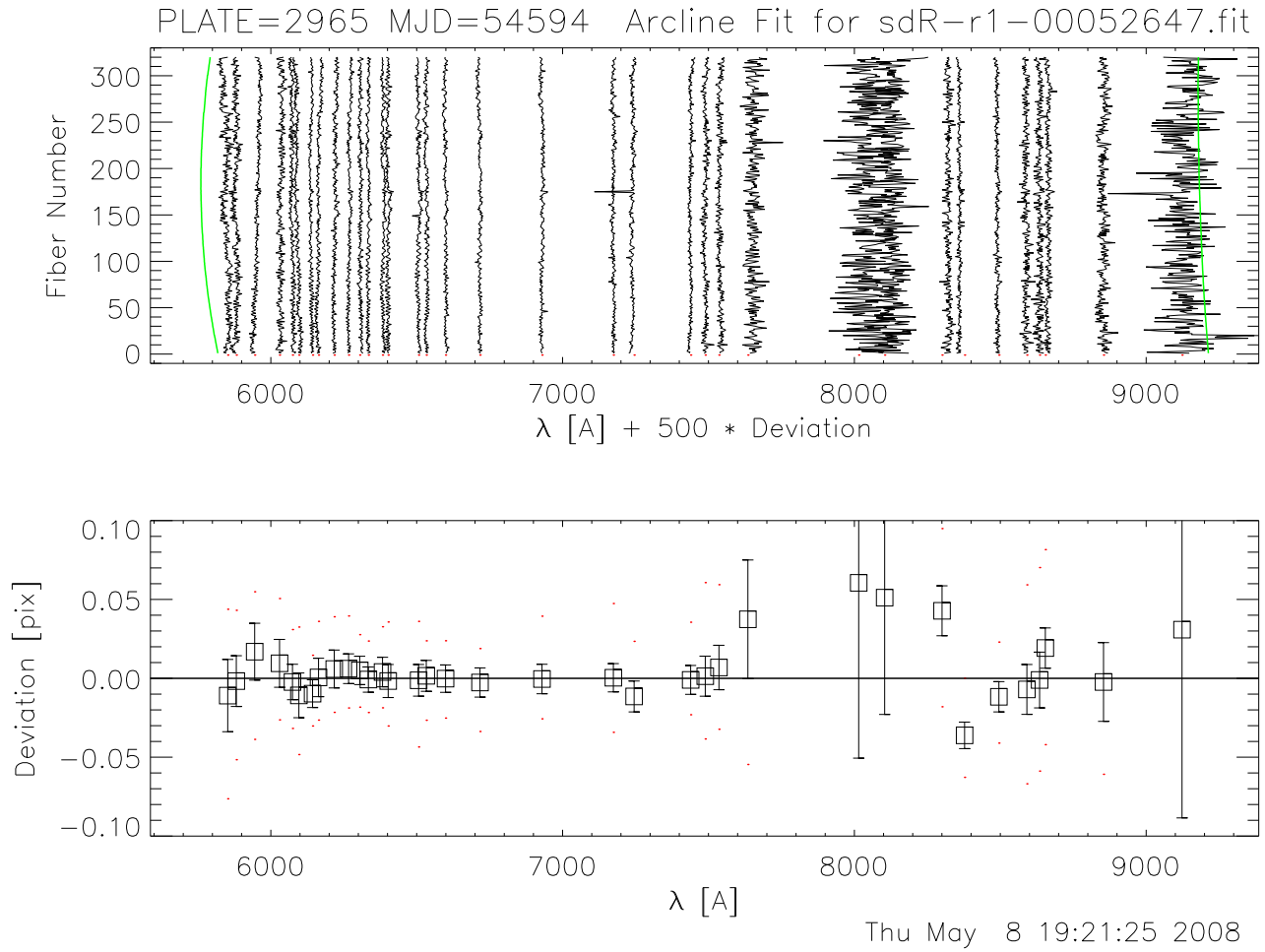

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

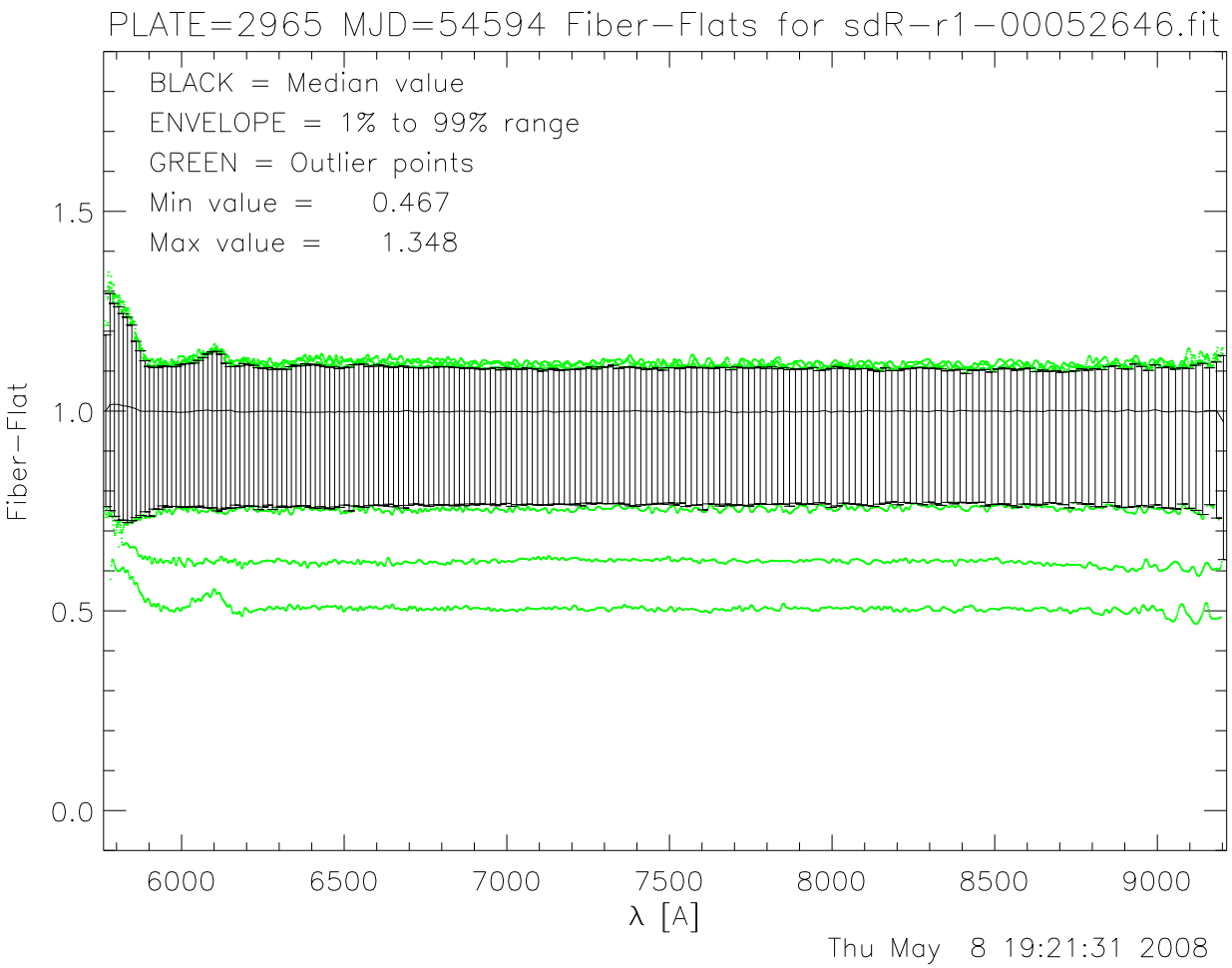

PLATE=2965 MJD=54594 flat extraction chi^2 for sdR−r1−00052641.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

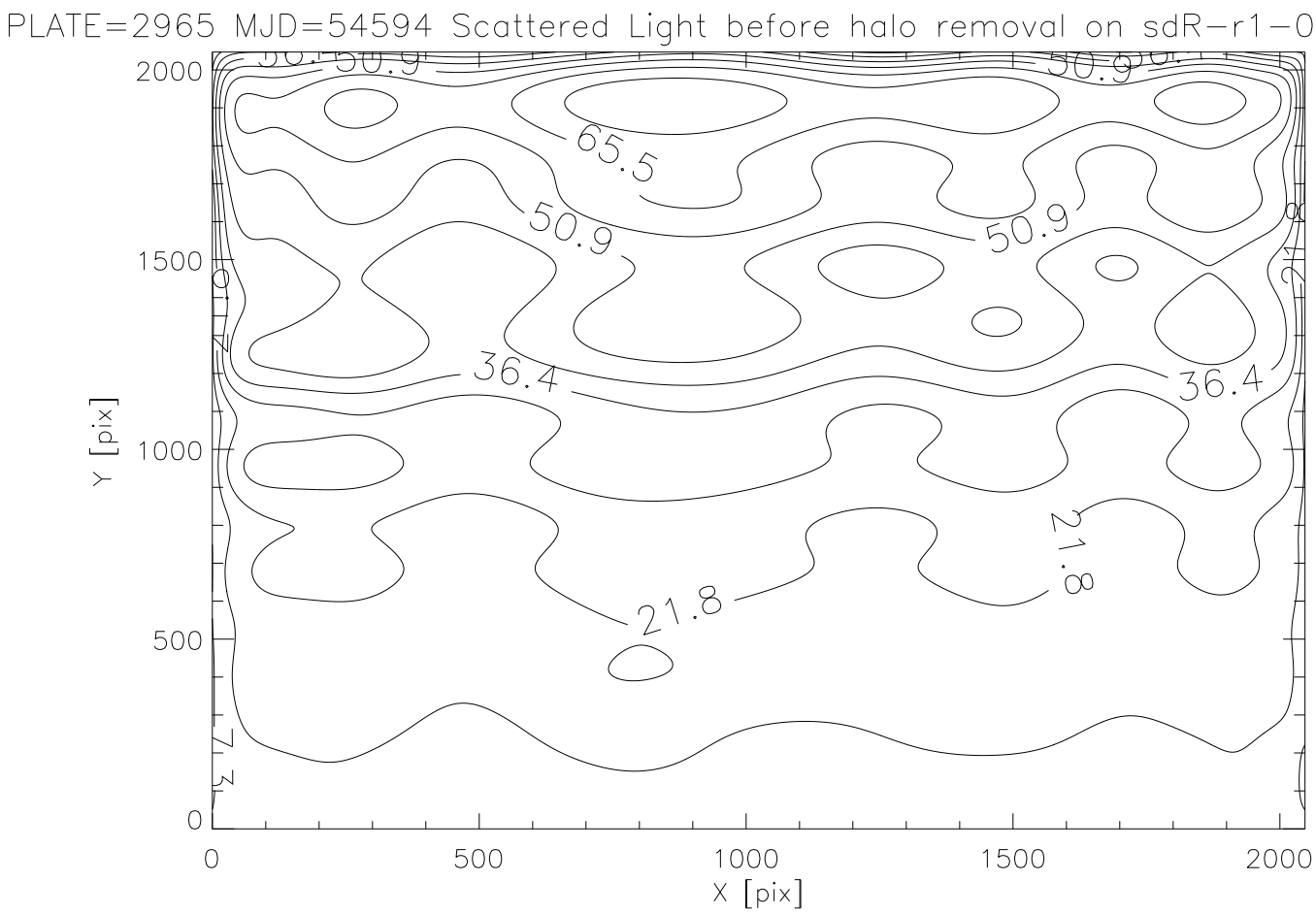

PLATE=2965 MJD=54594 Superflat sdR-r1-00052641.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

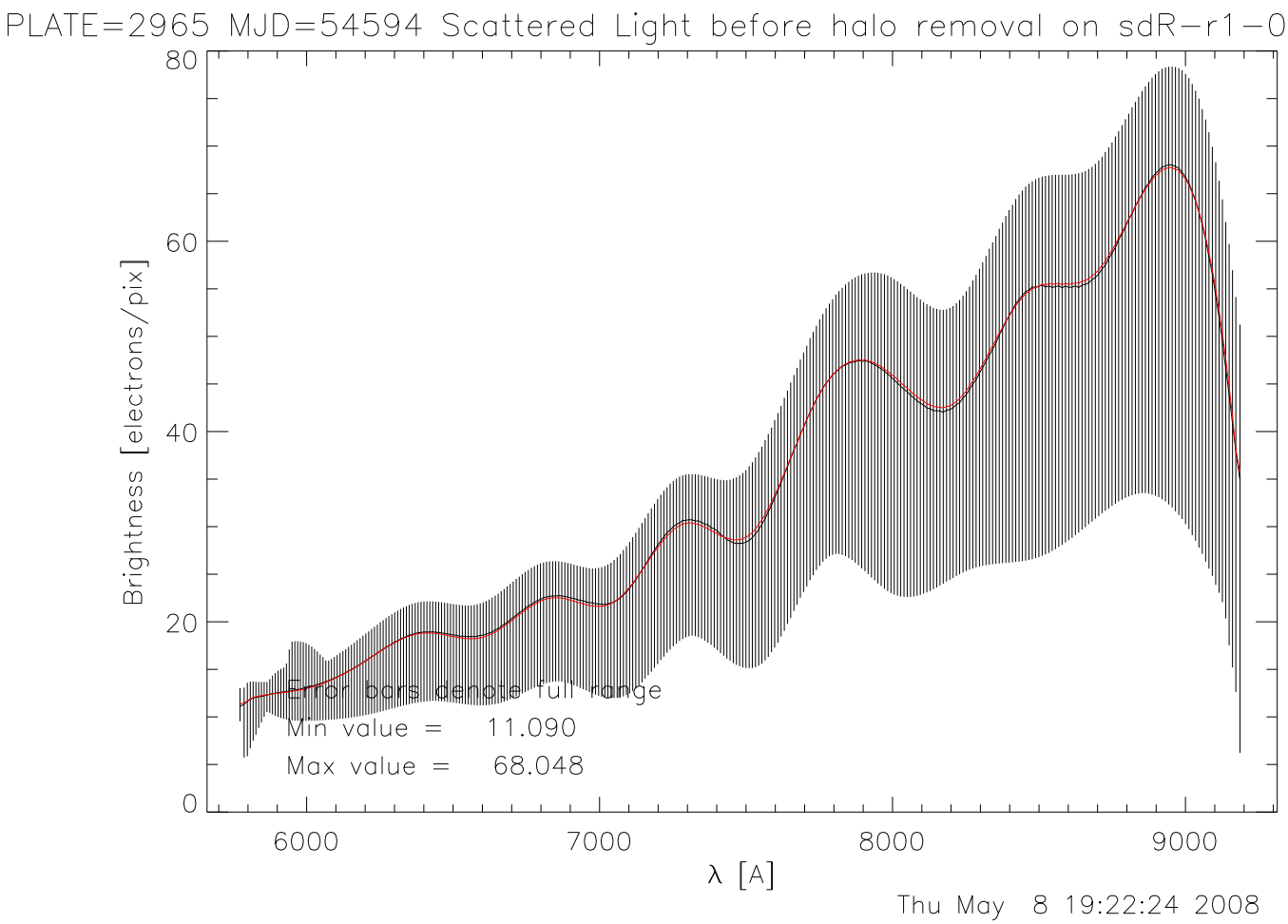

PLATE=2965 MJD=54594 flat extraction chi^2 for sdR−r1−00052646.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

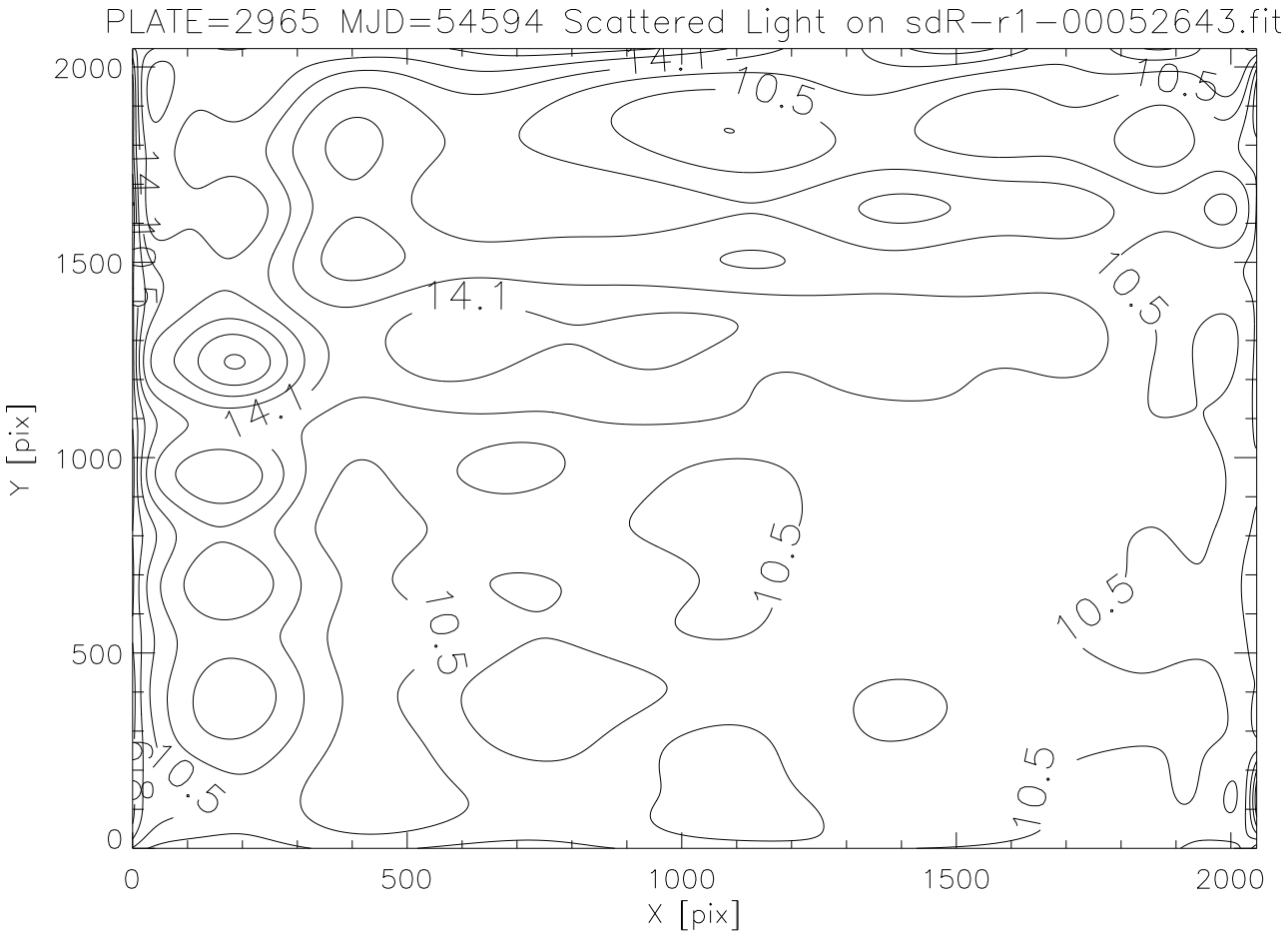

PLATE=2965 MJD=54594 Superflat sdR-r1-00052646.fit
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
6000
6500
7000
7500
8000
8500
9000

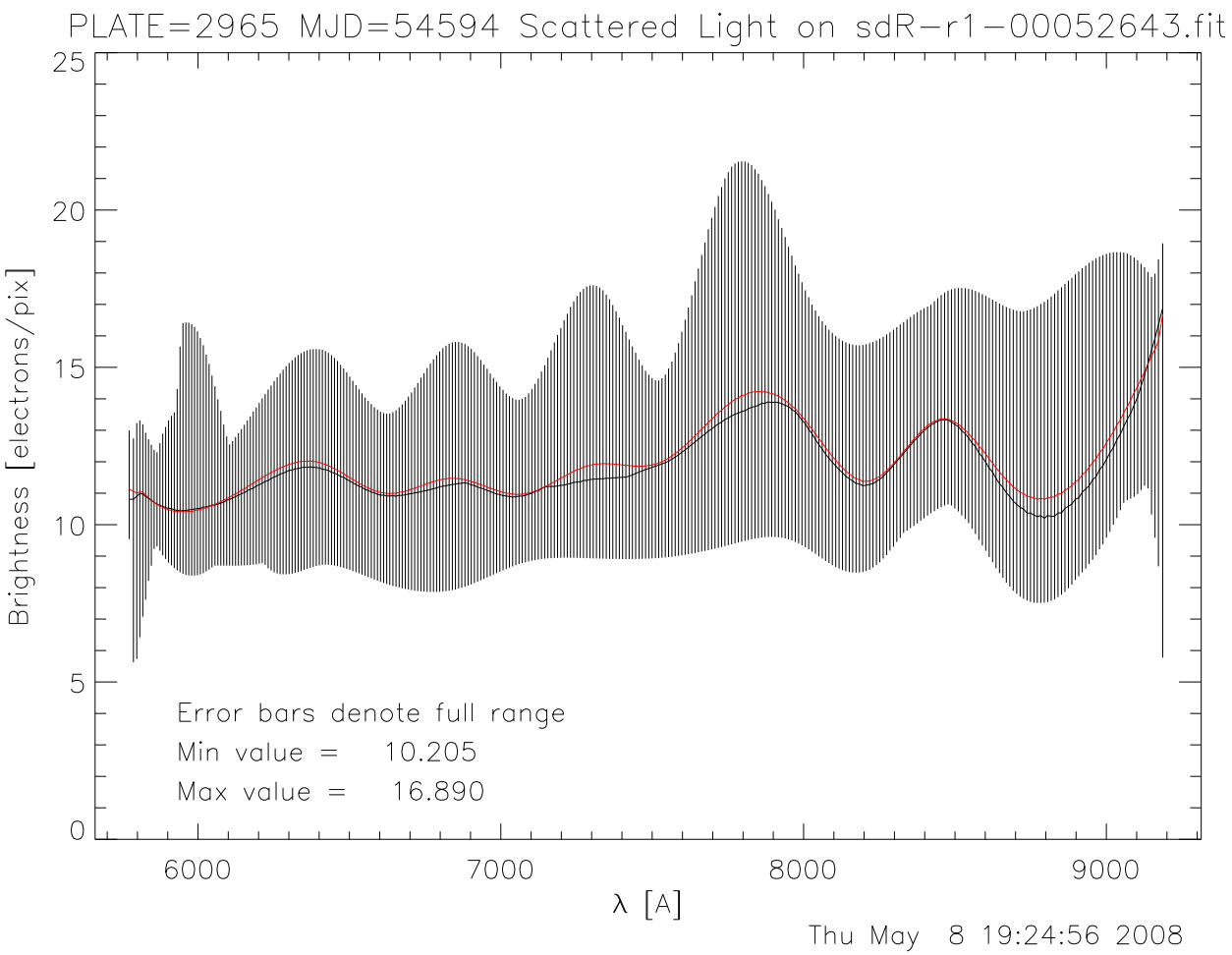

PLATE=2965 MJD=54594 Arcline Fit for sdR-r1-00052647.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Thu May 8 19:21:25 2008

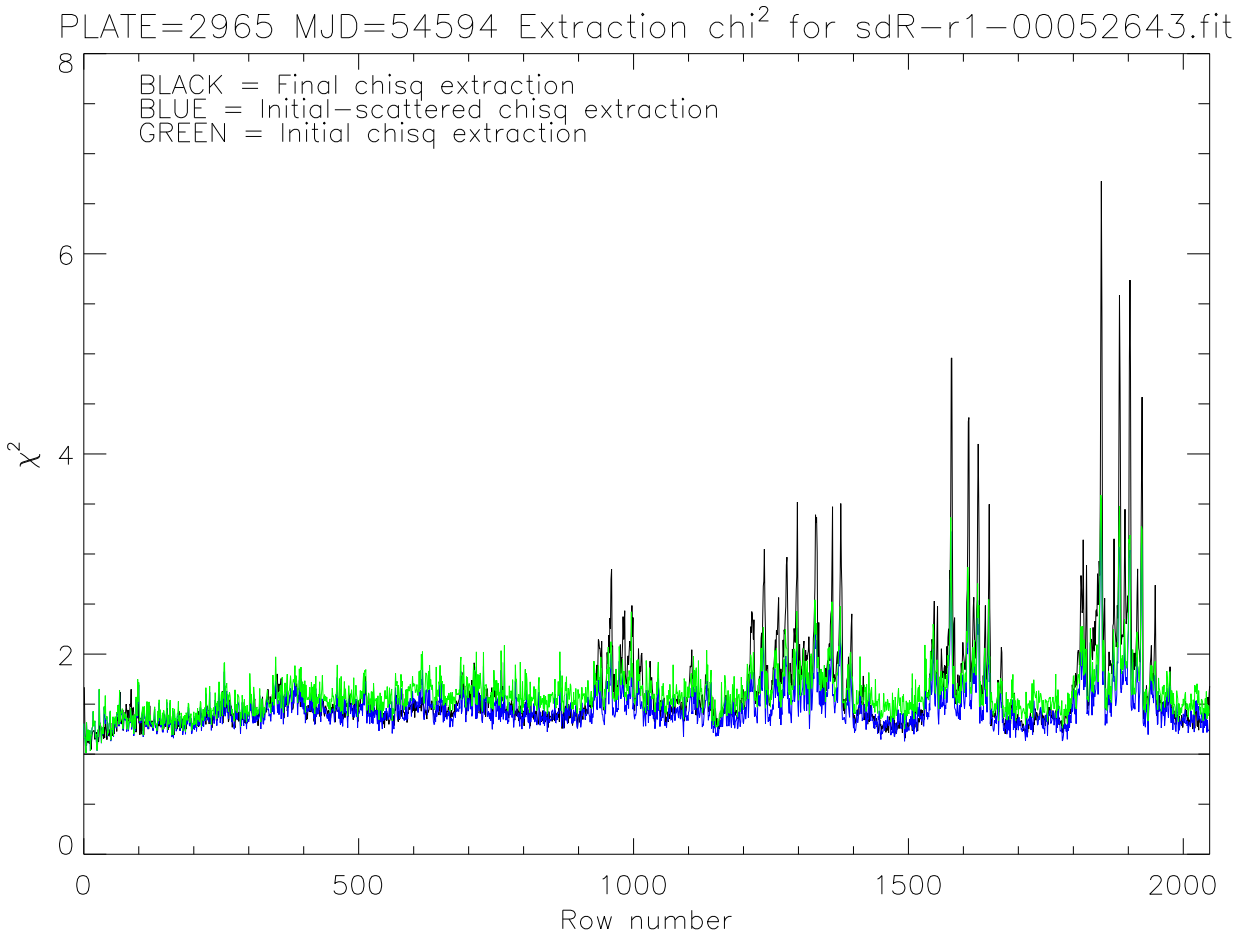

PLATE=2965 MJD=54594 Fiber−Flats for sdR−r1−00052646.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.467
Max value = 1.348
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Thu May 8 19:21:31 2008

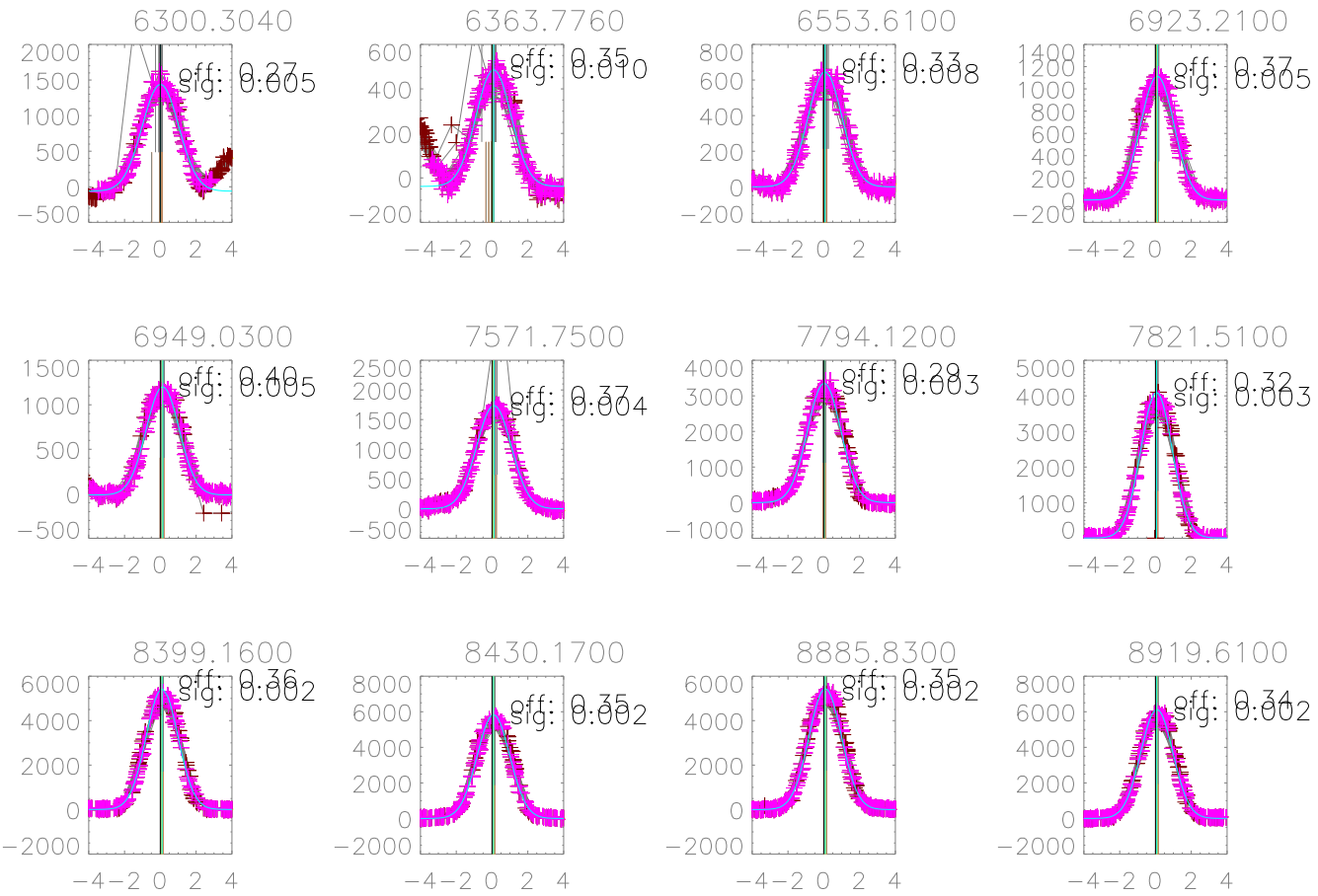

PLATE=2965 MJD=54594 Scattered Light before halo removal on sdR-r1-00052643.fi
65.5
50.9
36.4
21.8
Y [pix]
X [pix]
0
500
1000
1500
2000

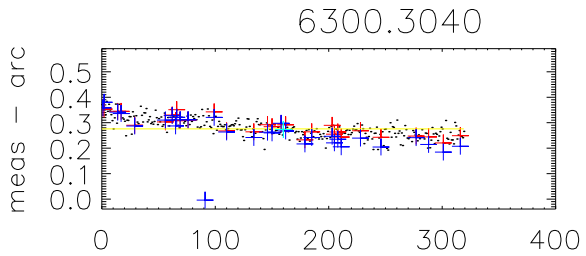

PLATE=2965 MJD=54594 Scattered Light before halo removal on sdR-r1-00052643.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 11.090
Max value = 68.048
Thu May 8 19:22:24 2008

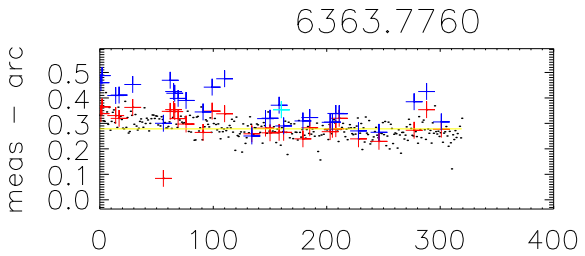

PLATE=2965 MJD=54594 Scattered Light on sdR−r1−00052643.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
14.1
10.5

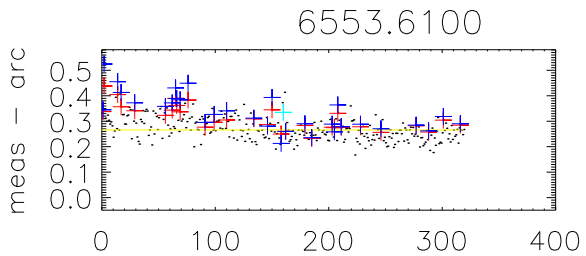

PLATE=2965 MJD=54594 Scattered Light on sdR-r1-00052643.fit
Brightness [electrons/pix]
25
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 10.205
Max value = 16.890
Thu May 8 19:24:56 2008

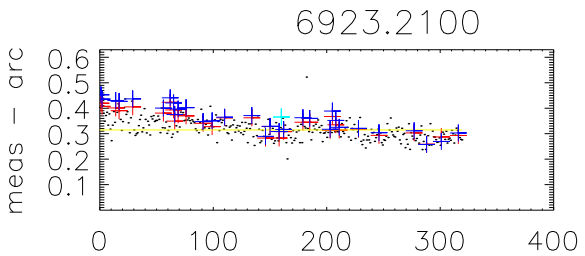

PLATE=2965 MJD=54594 Extraction chi^2 for sdR−r1−00052643.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

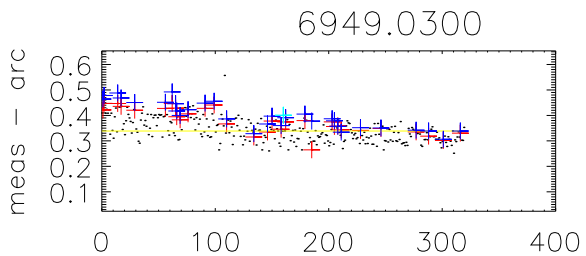

6300.3040
off: 0.27
sig: 0.005
6363.7760
off: 0.35
sig: 0.010
6553.6100
off: 0.33
sig: 0.008
6923.2100
off: 0.37
sig: 0.005
6949.0300
off: 0.40
sig: 0.005
7571.7500
off: 0.37
sig: 0.004
7794.1200
off: 0.28
sig: 0.003
7821.5100
off: 0.32
sig: 0.003
8399.1600
off: 0.36
sig: 0.002
8430.1700
off: 0.35
sig: 0.002
8885.8300
off: 0.35
sig: 0.002
8919.6100
off: 0.34
sig: 0.002

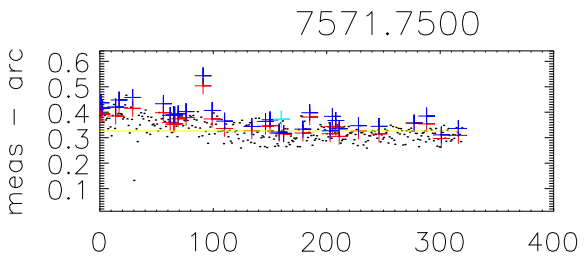

6300.3040
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

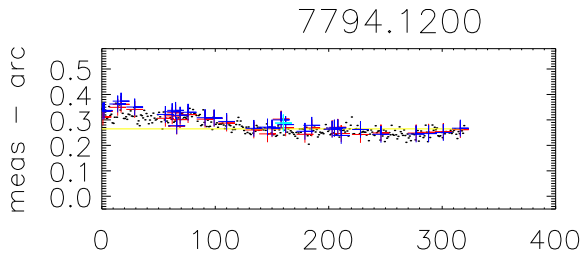

6363.7760
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

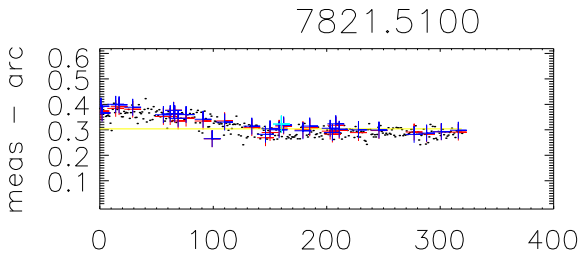

6553.6100
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

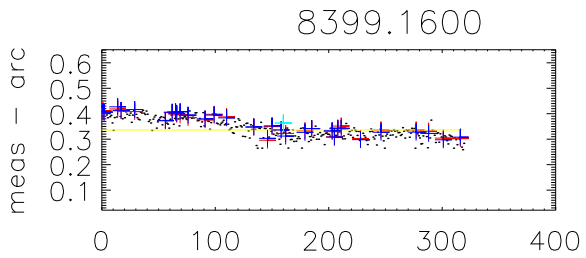

6923.2100
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

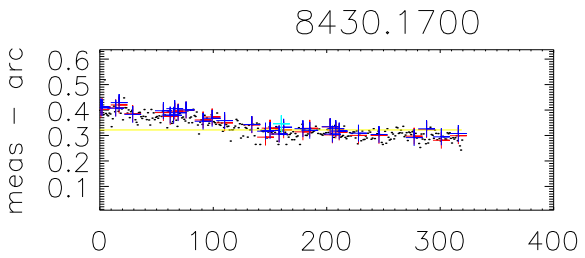

6949.0300
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

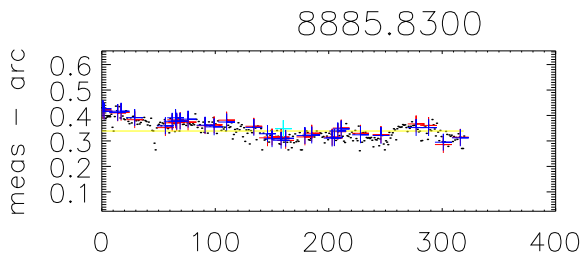

7571.7500
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

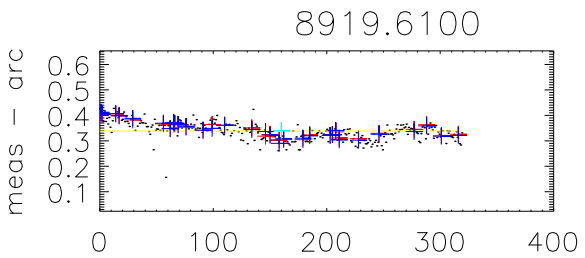

7794.1200
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

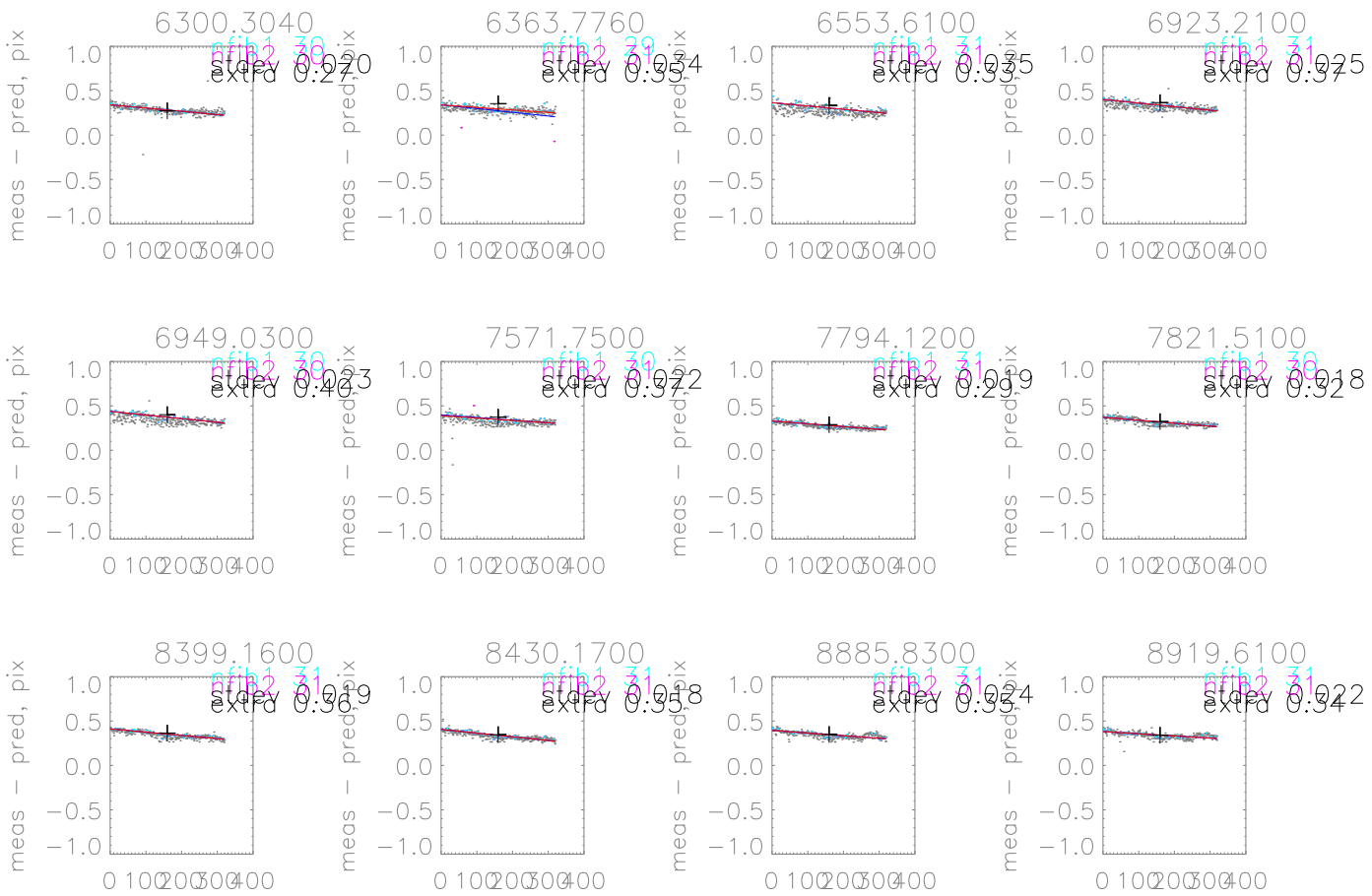

7821.5100
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

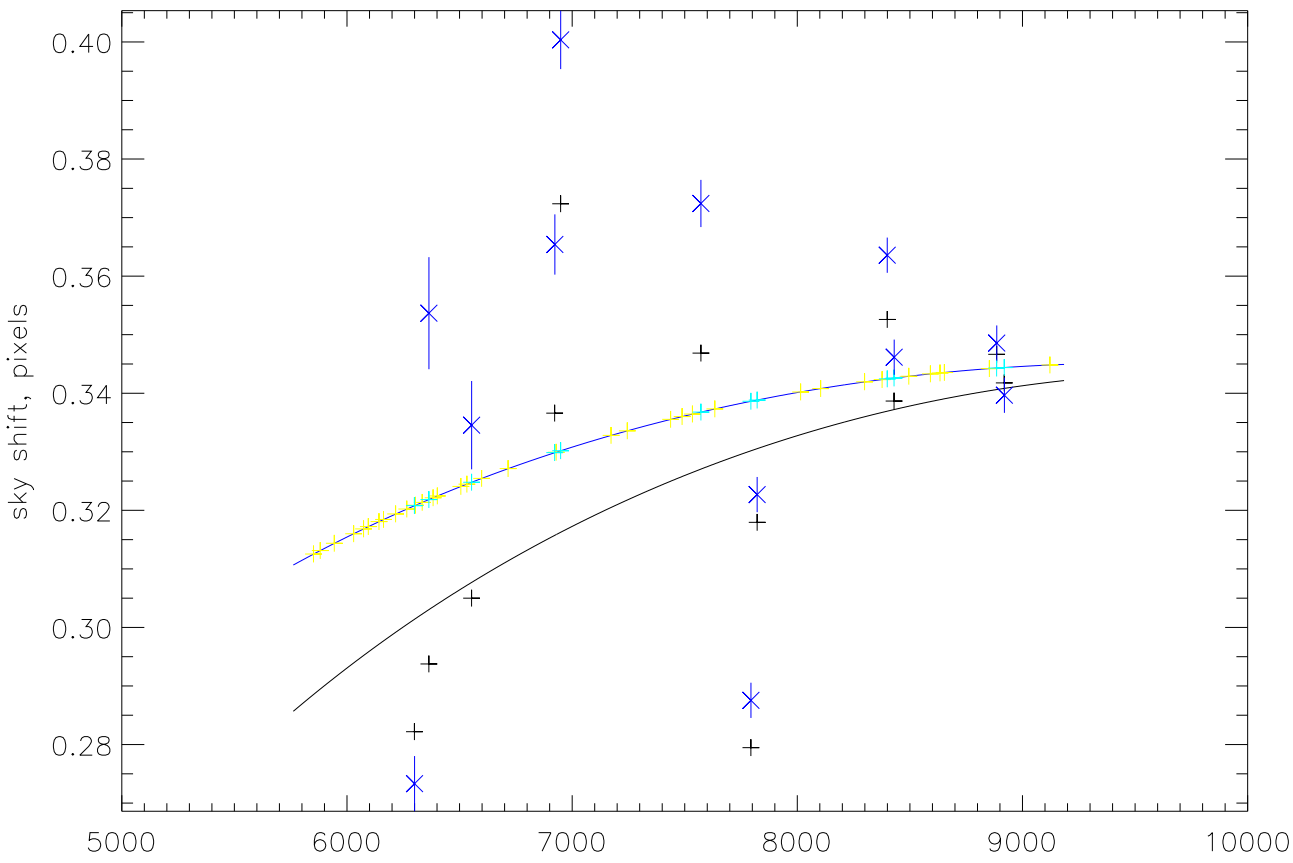

8399.1600
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400


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

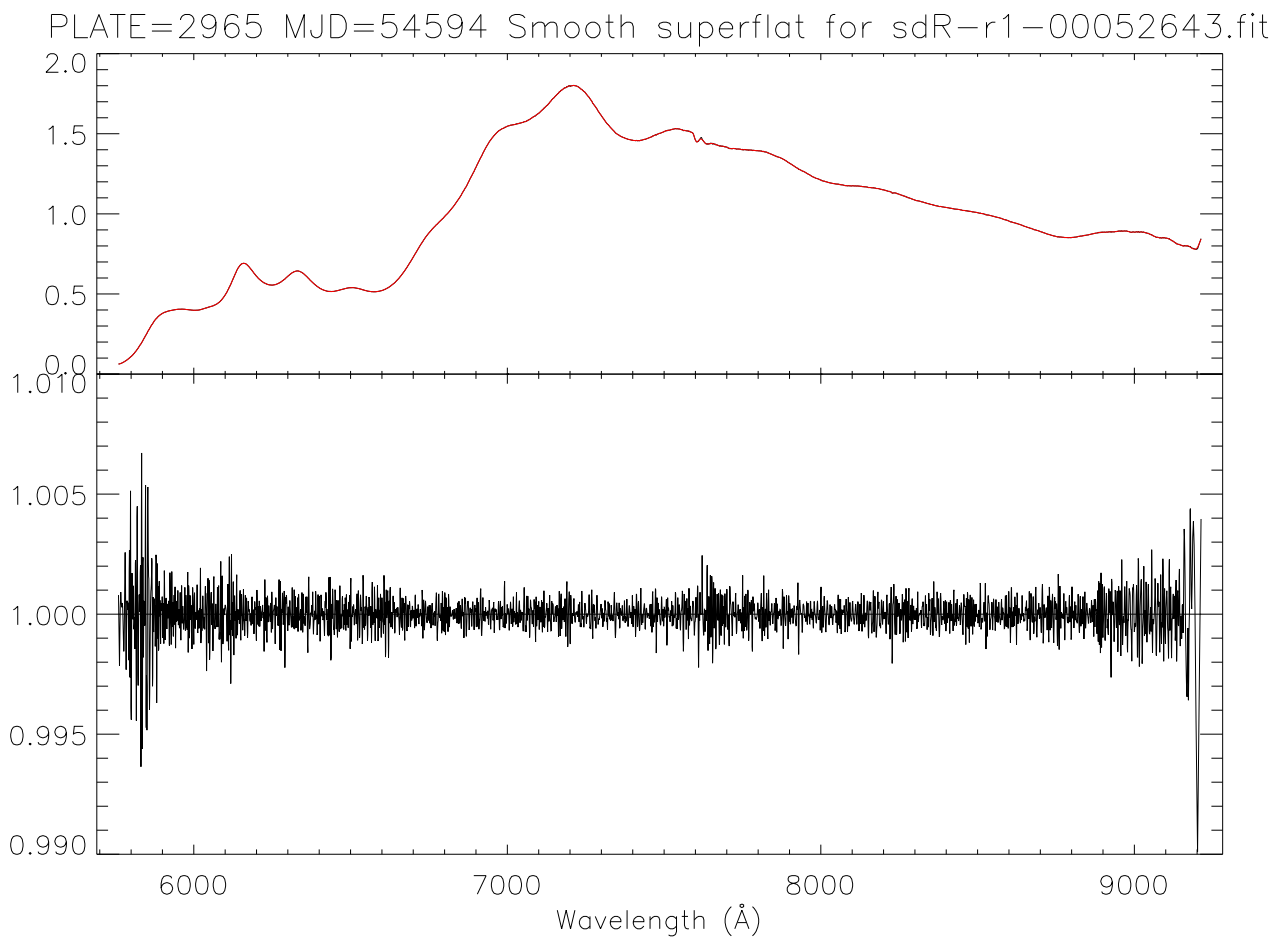

8885.8300
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

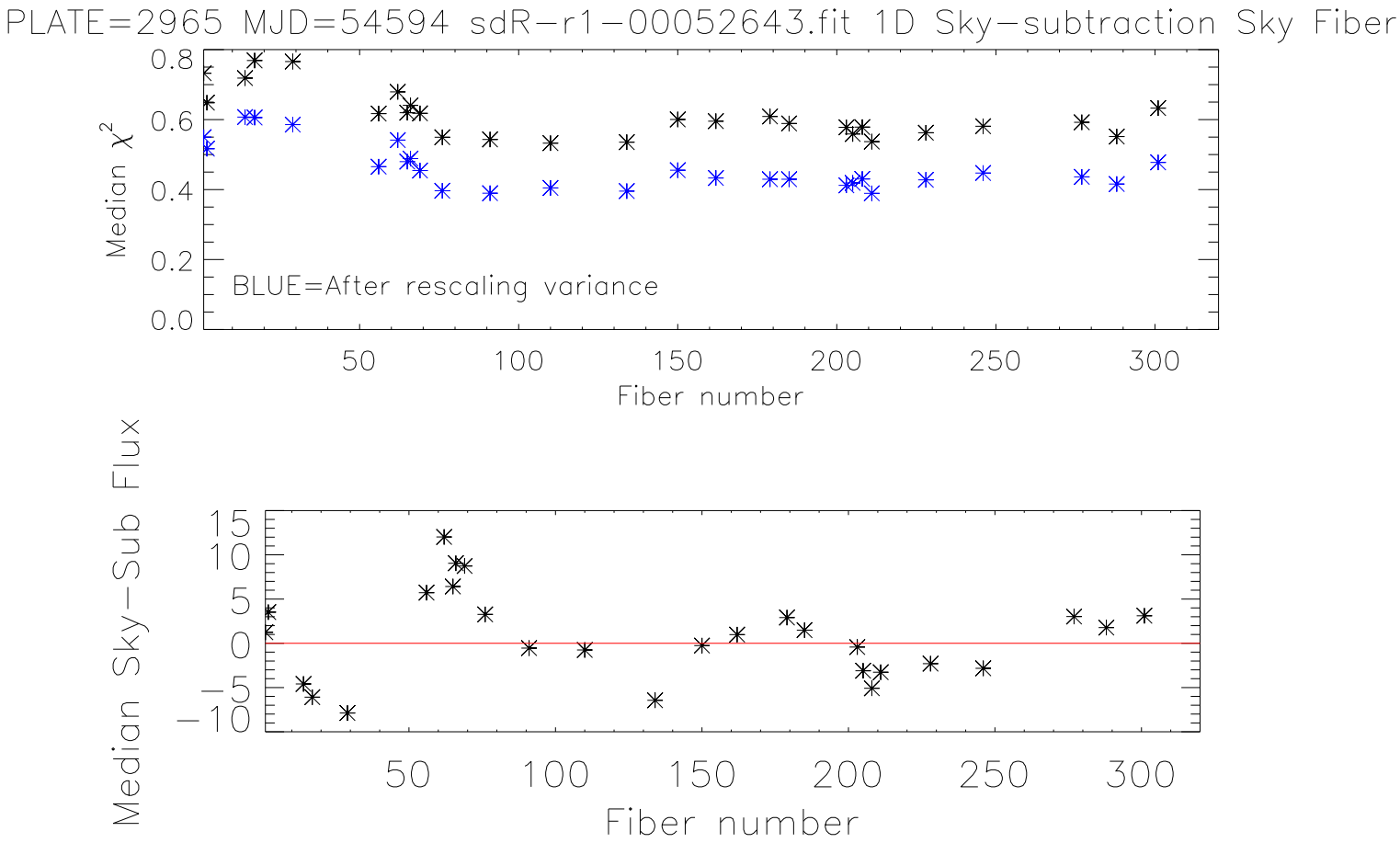

8919.6100
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

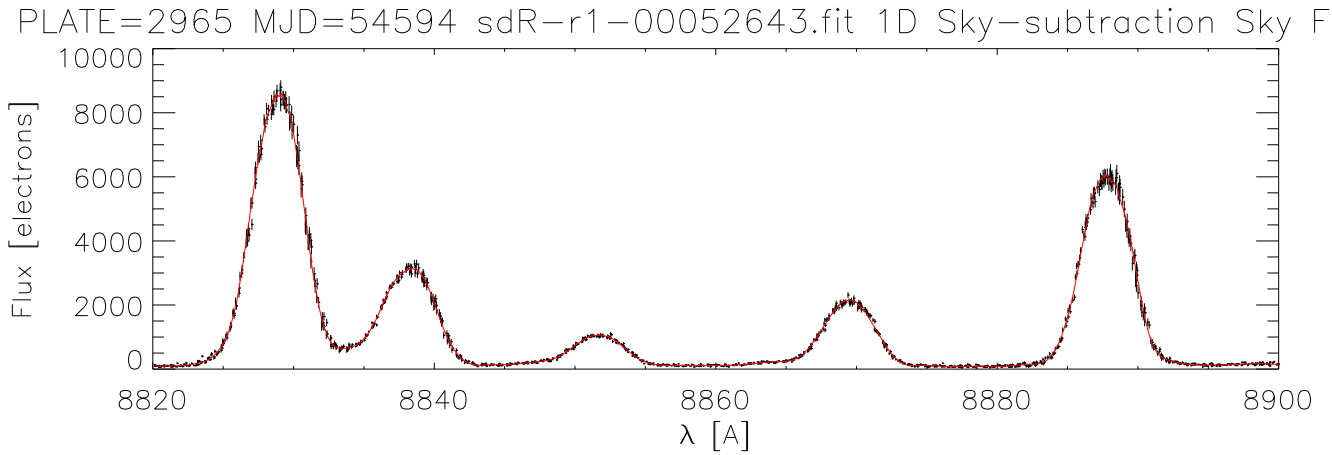

6300.3040
mfib1 30
mfib2 30
stdev 0.020
extra 0.27
6363.7760
mfib1 30
mfib2 31
stdev 0.034
extra 0.35
6553.6100
mfib1 31
mfib2 31
stdev 0.035
extra 0.33
6923.2100
mfib1 31
mfib2 31
stdev 0.025
extra 0.37
6949.0300
mfib1 30
mfib2 30
stdev 0.023
extra 0.46
7571.7500
mfib1 30
mfib2 31
stdev 0.022
extra 0.37
7794.1200
mfib1 31
mfib2 31
stdev 0.019
extra 0.29
7821.5100
mfib1 30
mfib2 30
stdev 0.018
extra 0.32
8399.1600
mfib1 31
mfib2 31
stdev 0.019
extra 0.36
8430.1700
mfib1 31
mfib2 31
stdev 0.018
extra 0.35
8885.8300
mfib1 31
mfib2 31
stdev 0.024
extra 0.33
8919.6100
mfib1 31
mfib2 31
stdev 0.022
extra 0.34
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

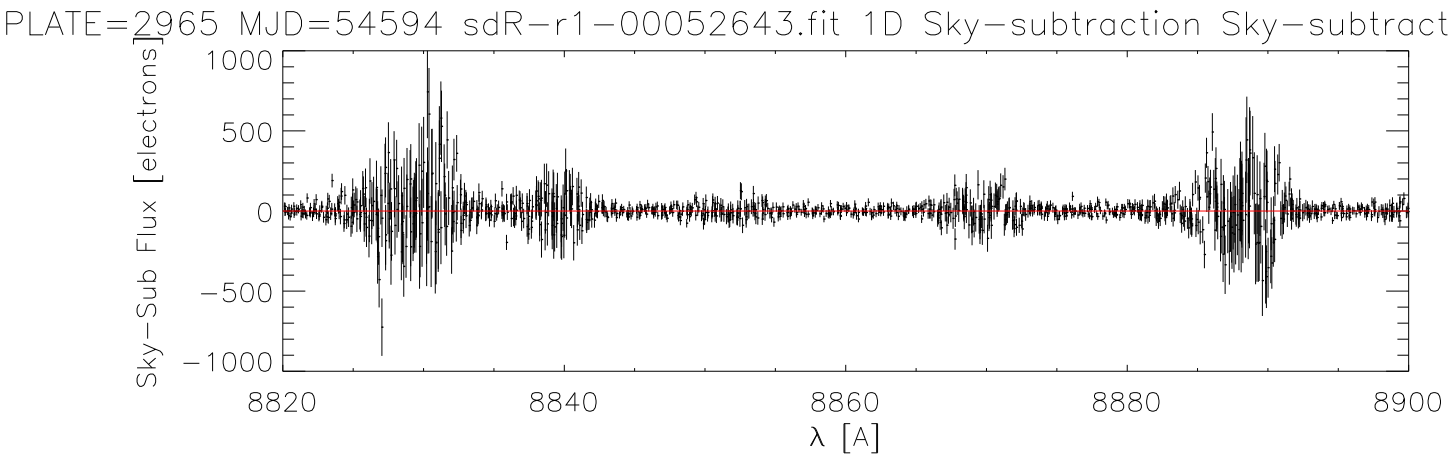

sky shift, pixels
0.40
0.38
0.36
0.34
0.32
0.30
0.28
5000
6000
7000
8000
9000
10000

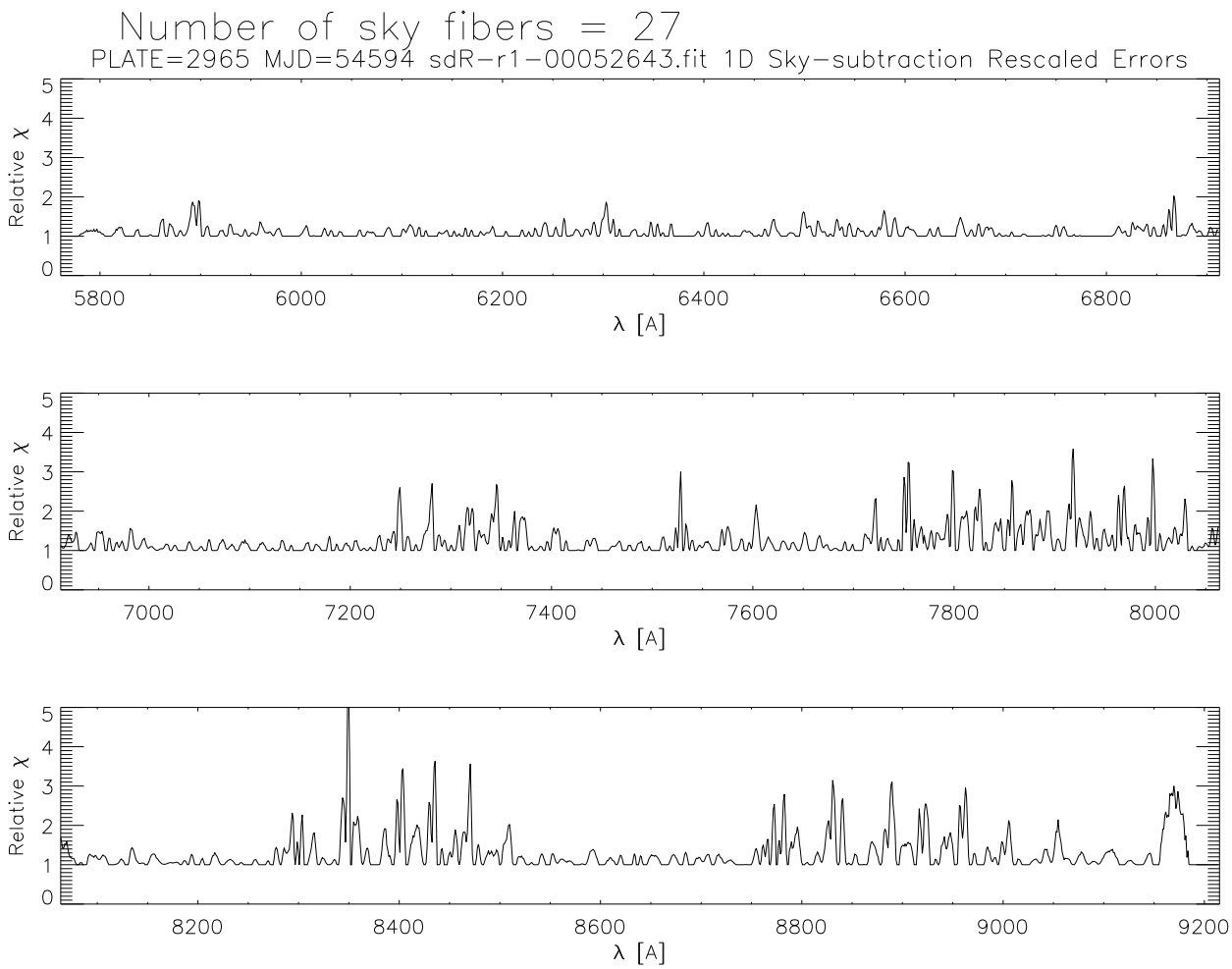
es= 0.0000

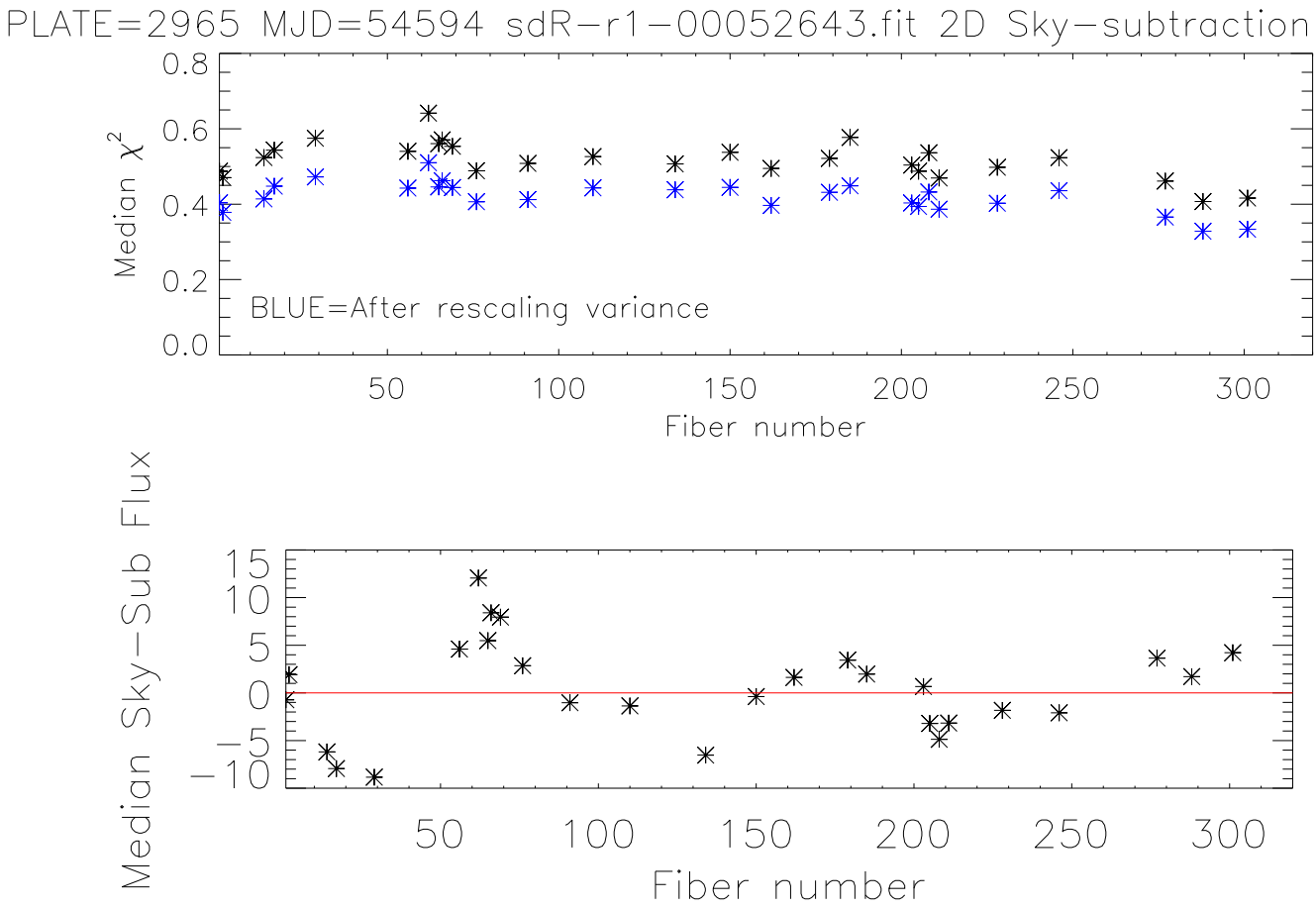

PLATE=2965 MJD=54594 Smooth superflat for sdR-r1-00052643.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

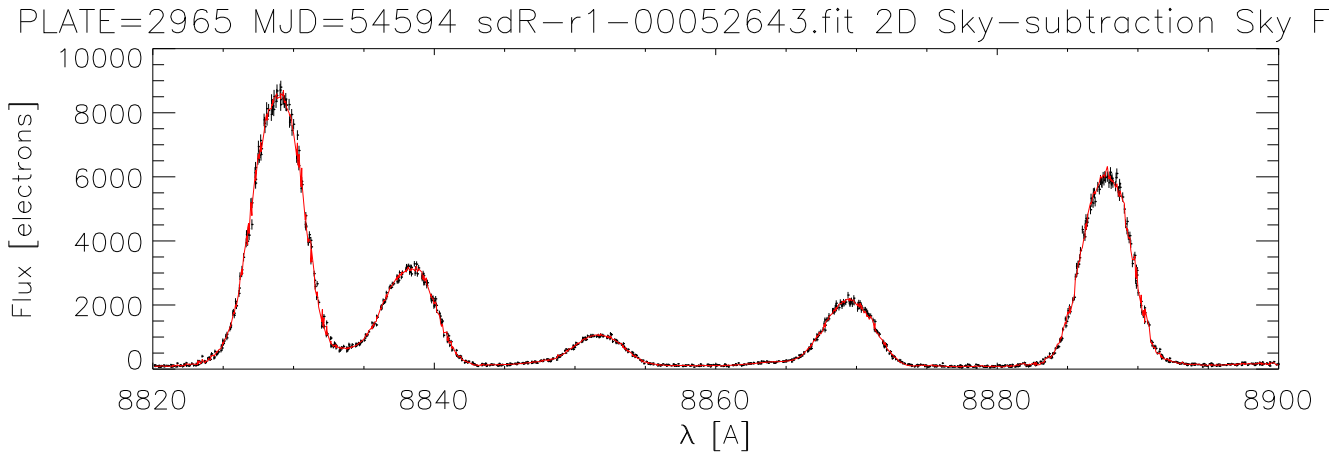

PLATE=2965 MJD=54594 sdR-r1-00052643.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
15
10
5
0
-5
-10
50
100
150
200
250
300
Fiber number

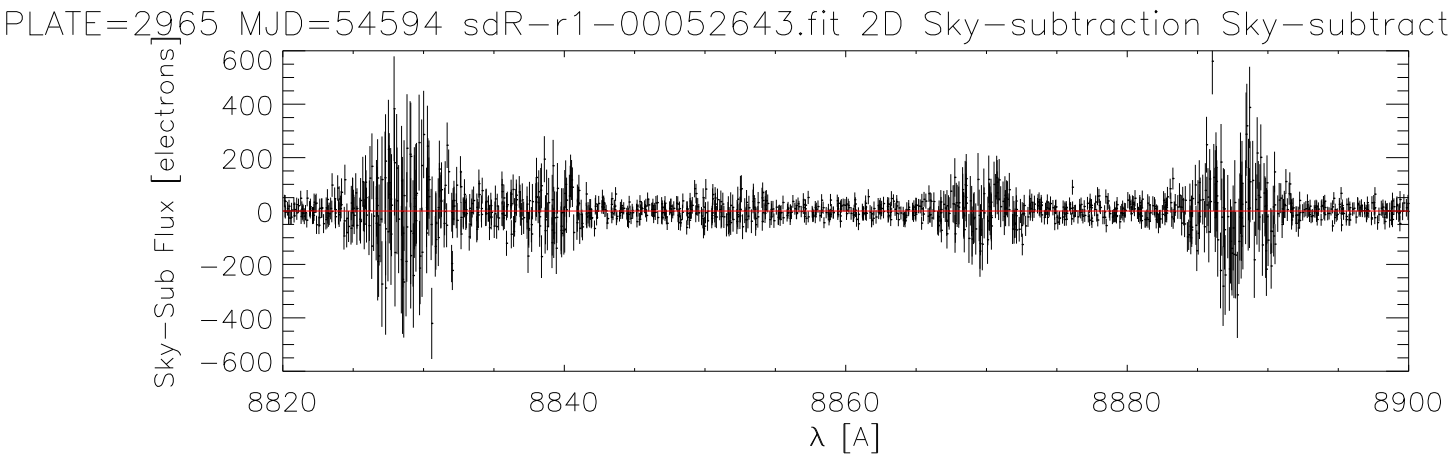

PLATE=2965 MJD=54594 sdR-r1-00052643.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

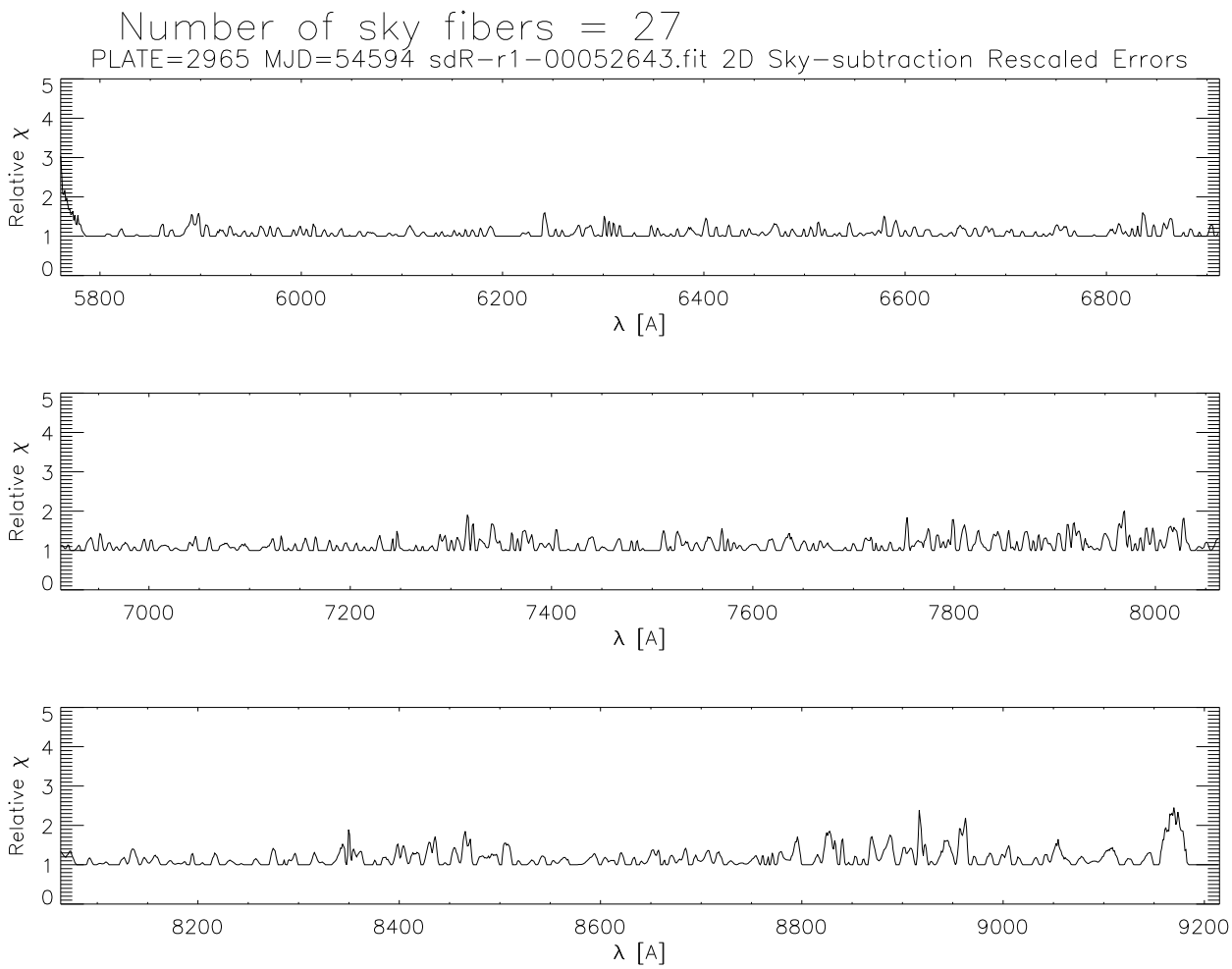

PLATE=2965 MJD=54594 sdR-r1-00052643.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
500
0
-500
-1000
8820
8840
8860
8880
8900
λ [A]

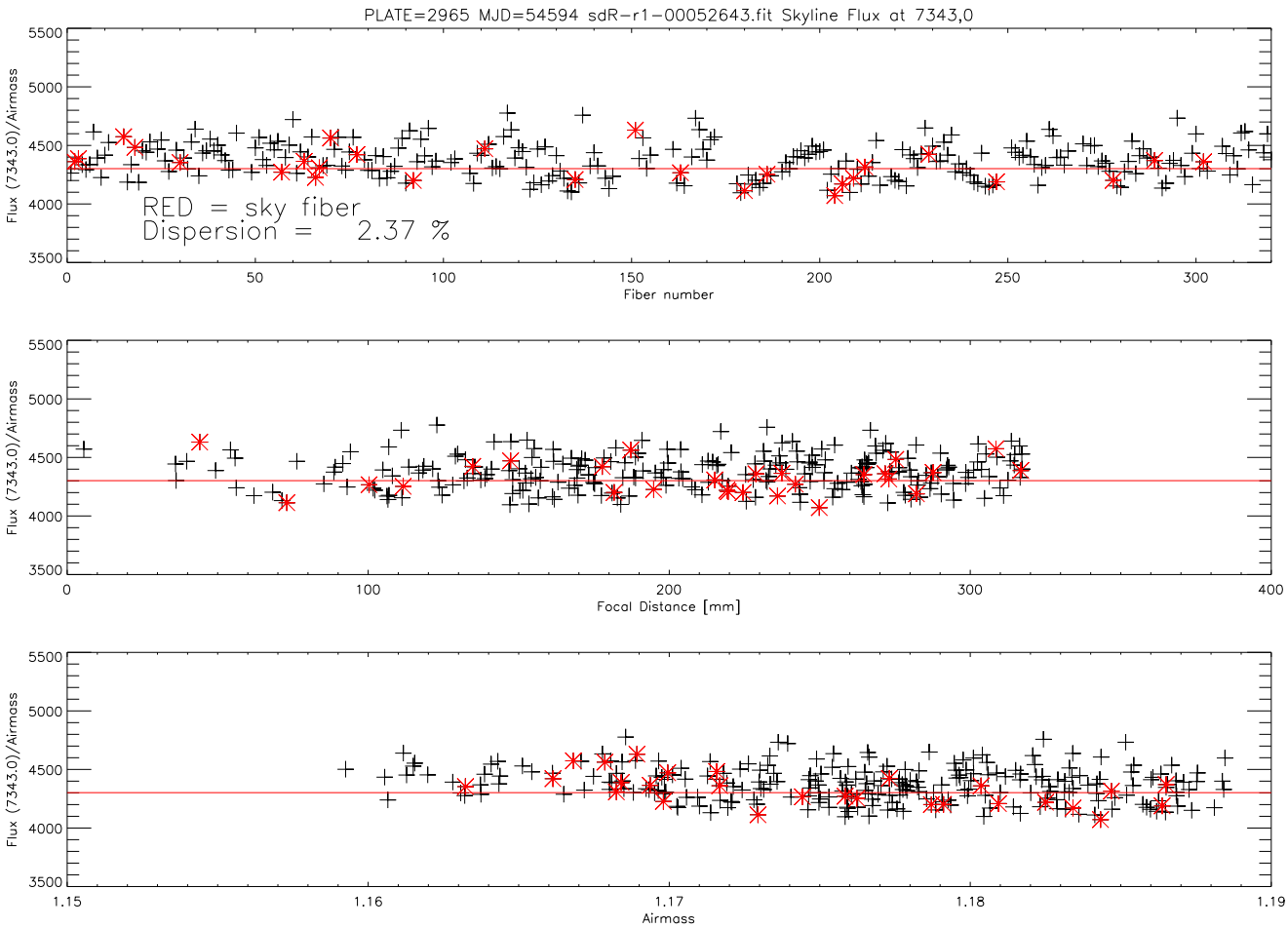

Number of sky fibers = 27
PLATE=2965 MJD=54594 sdR-r1-00052643.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

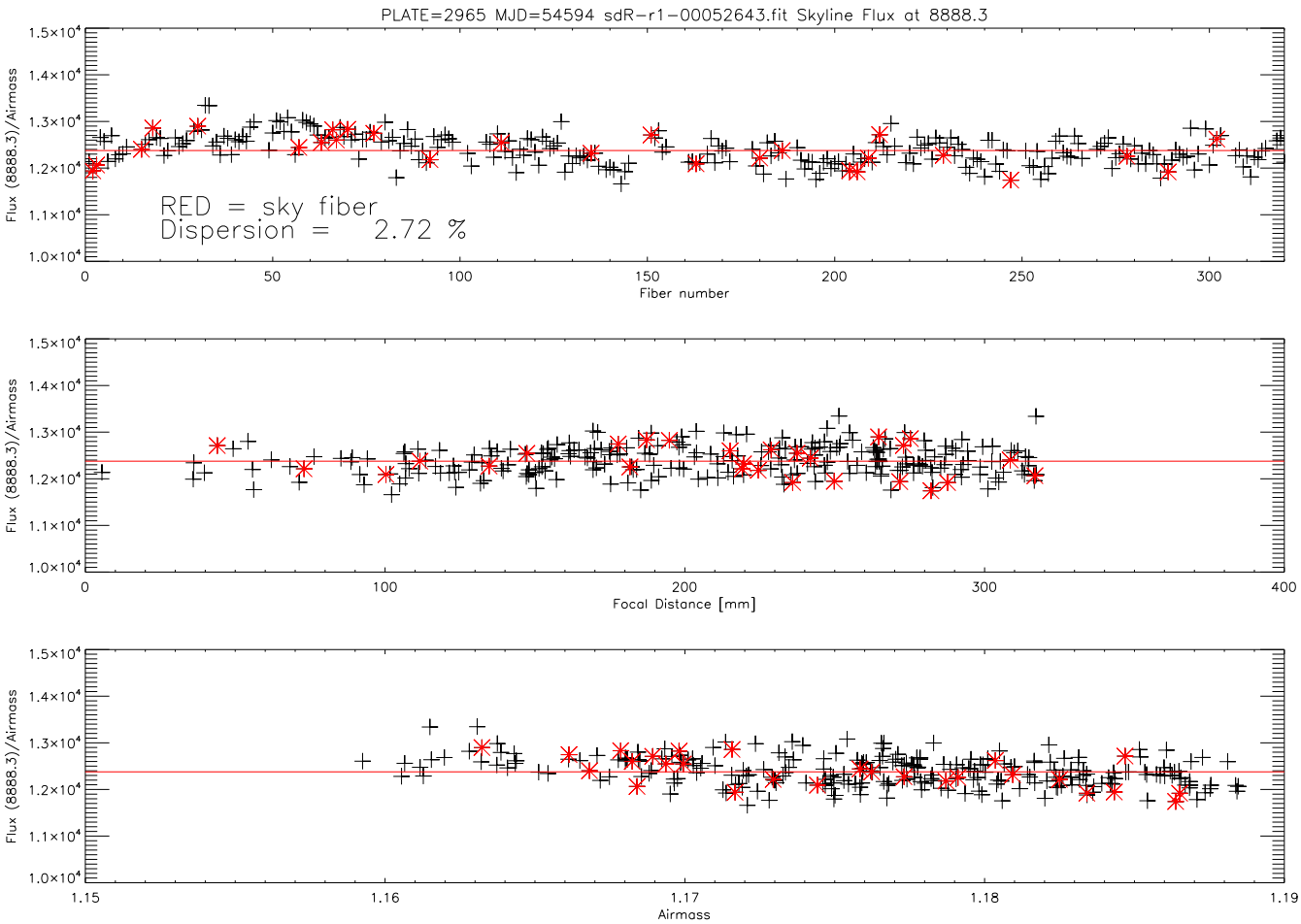

PLATE=2965 MJD=54594 sdR-r1-00052643.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
15
10
5
0
-5
-10
50
100
150
200
250
300
Fiber number

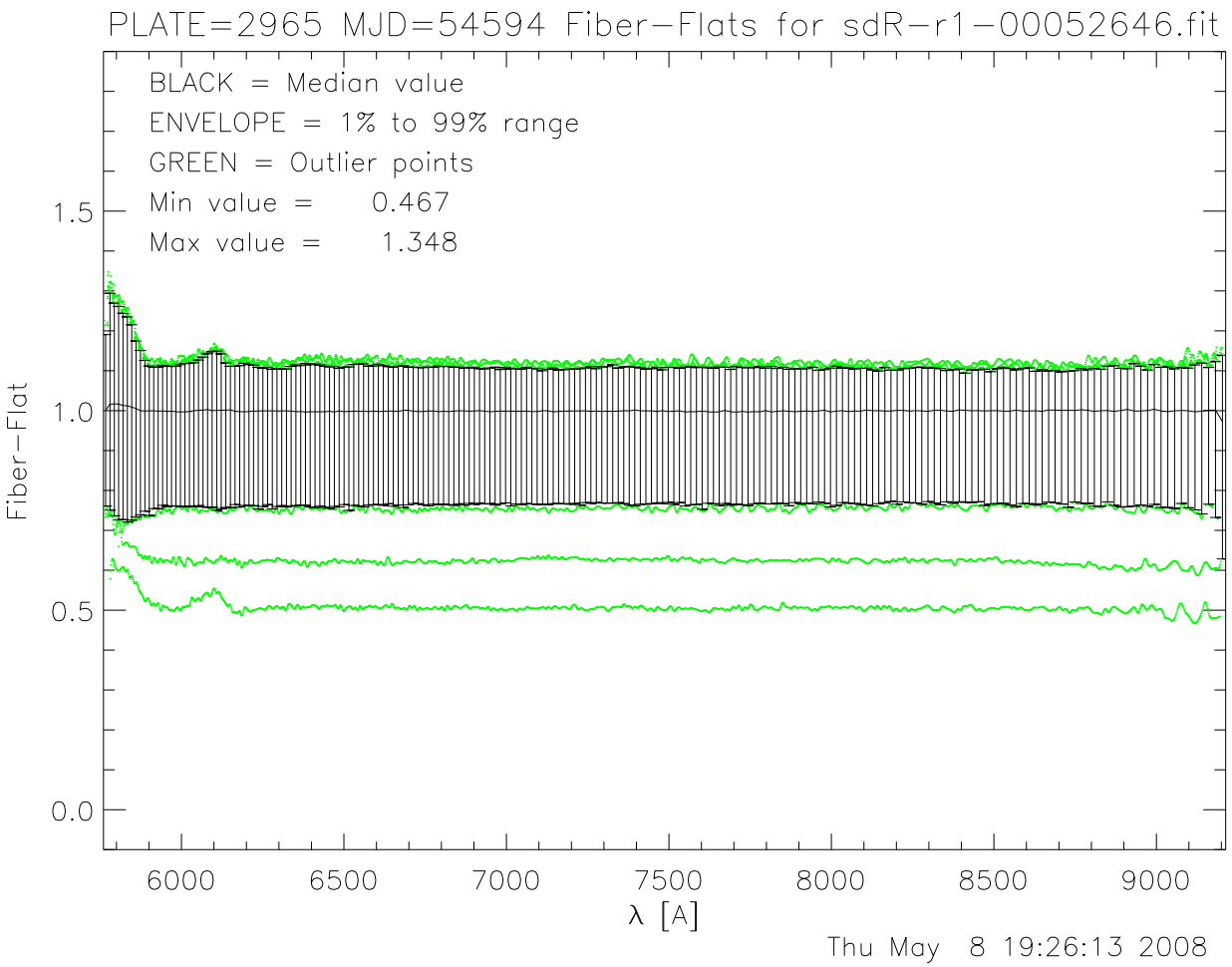

PLATE=2965 MJD=54594 sdR-r1-00052643.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

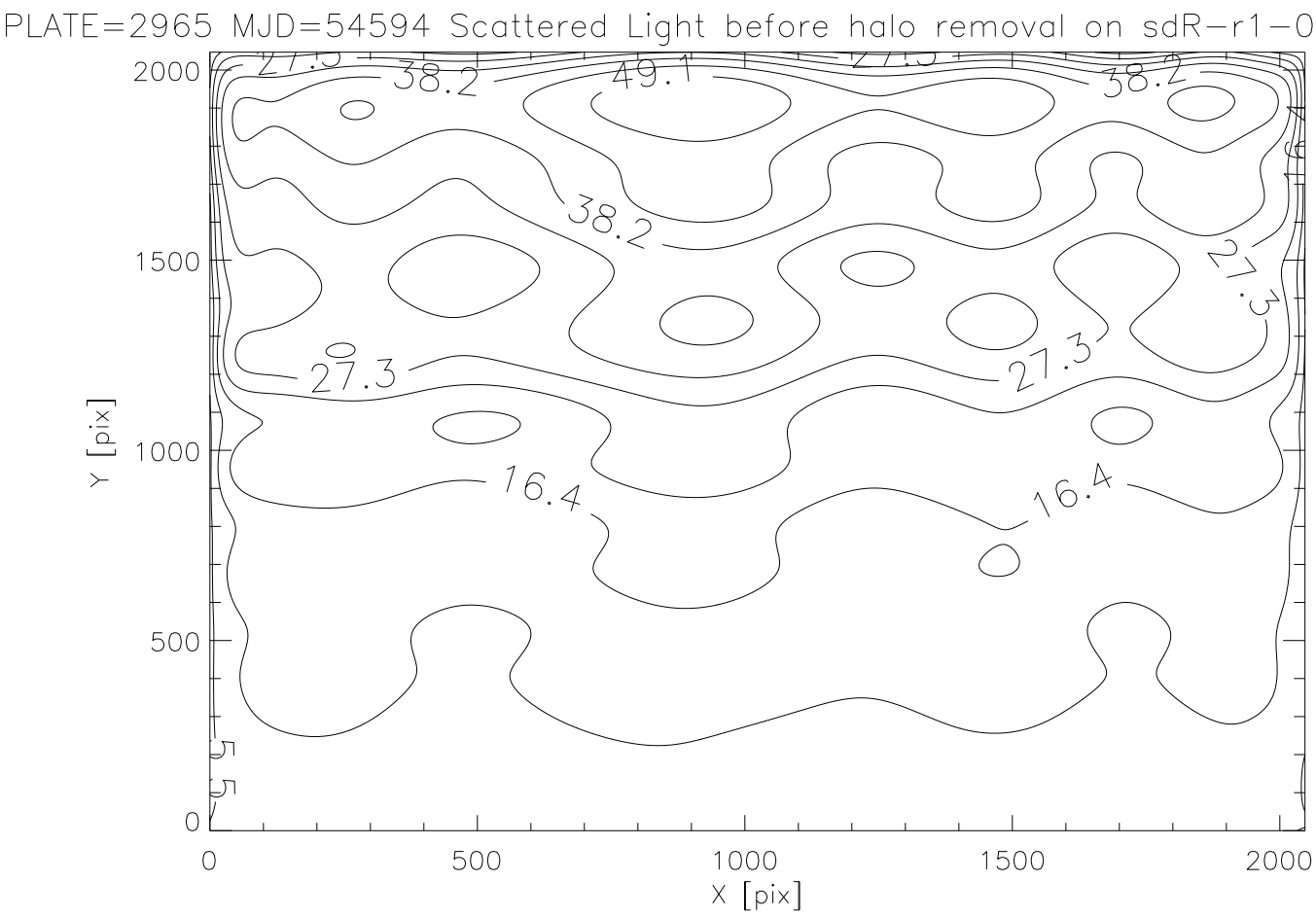

PLATE=2965 MJD=54594 sdR-r1-00052643.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
-600
8820
8840
8860
8880
8900
λ [A]

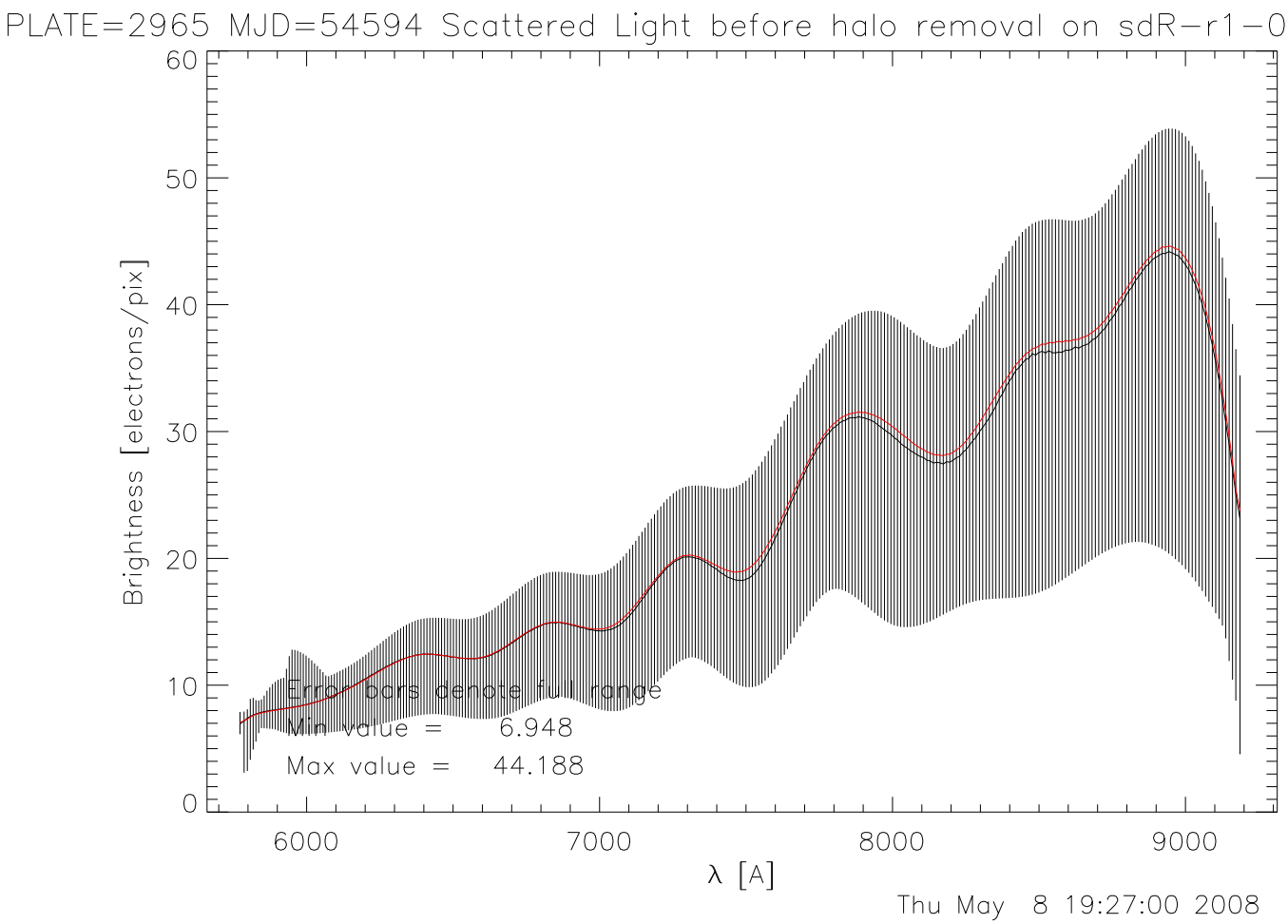

Number of sky fibers = 27
PLATE=2965 MJD=54594 sdR-r1-00052643.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

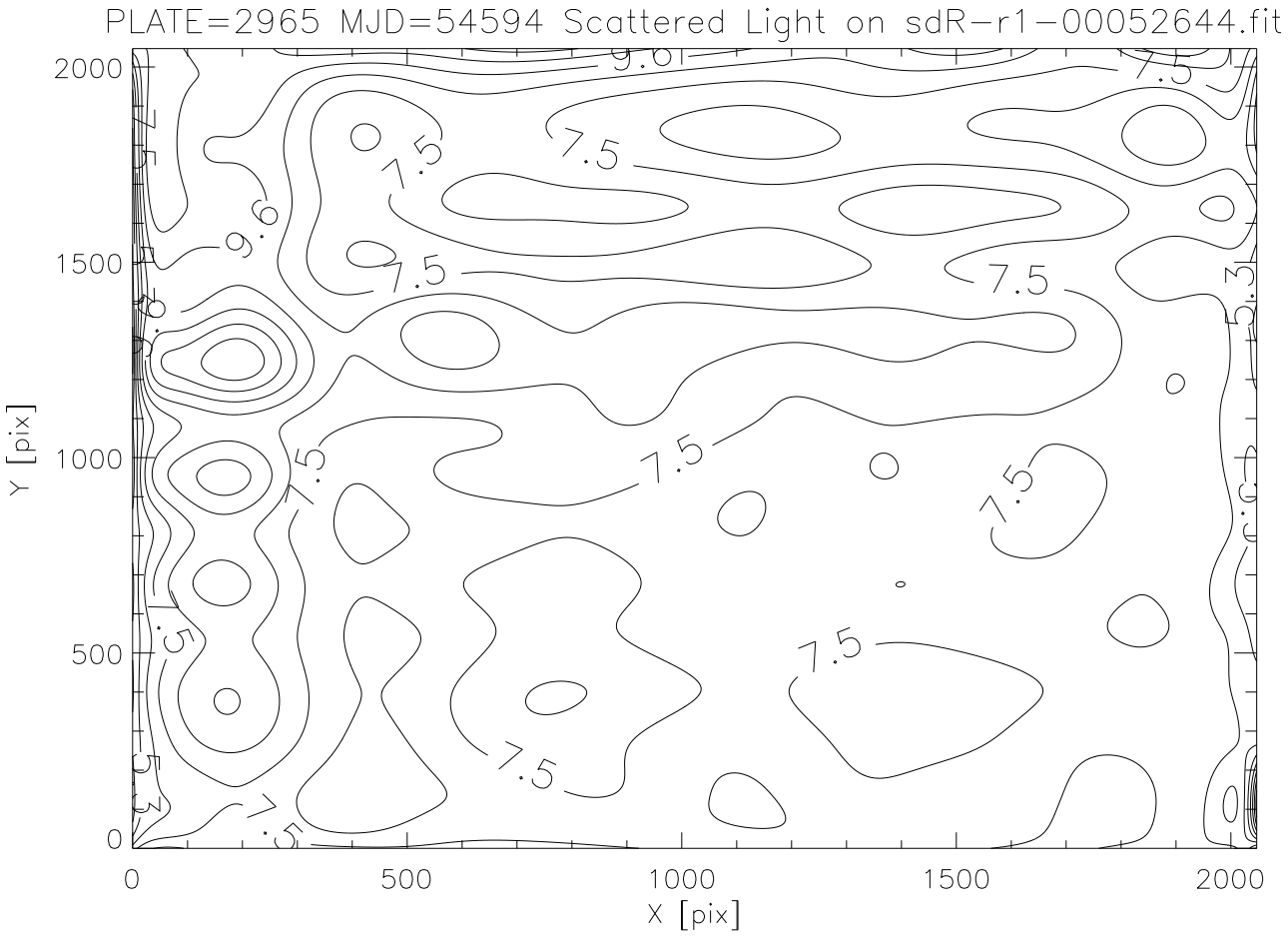

PLATE=2965 MJD=54594 sdR-r1-00052643.fit Skyline Flux at 7343.0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.37 %
Fiber number
Focal Distance [mm]
Airmass

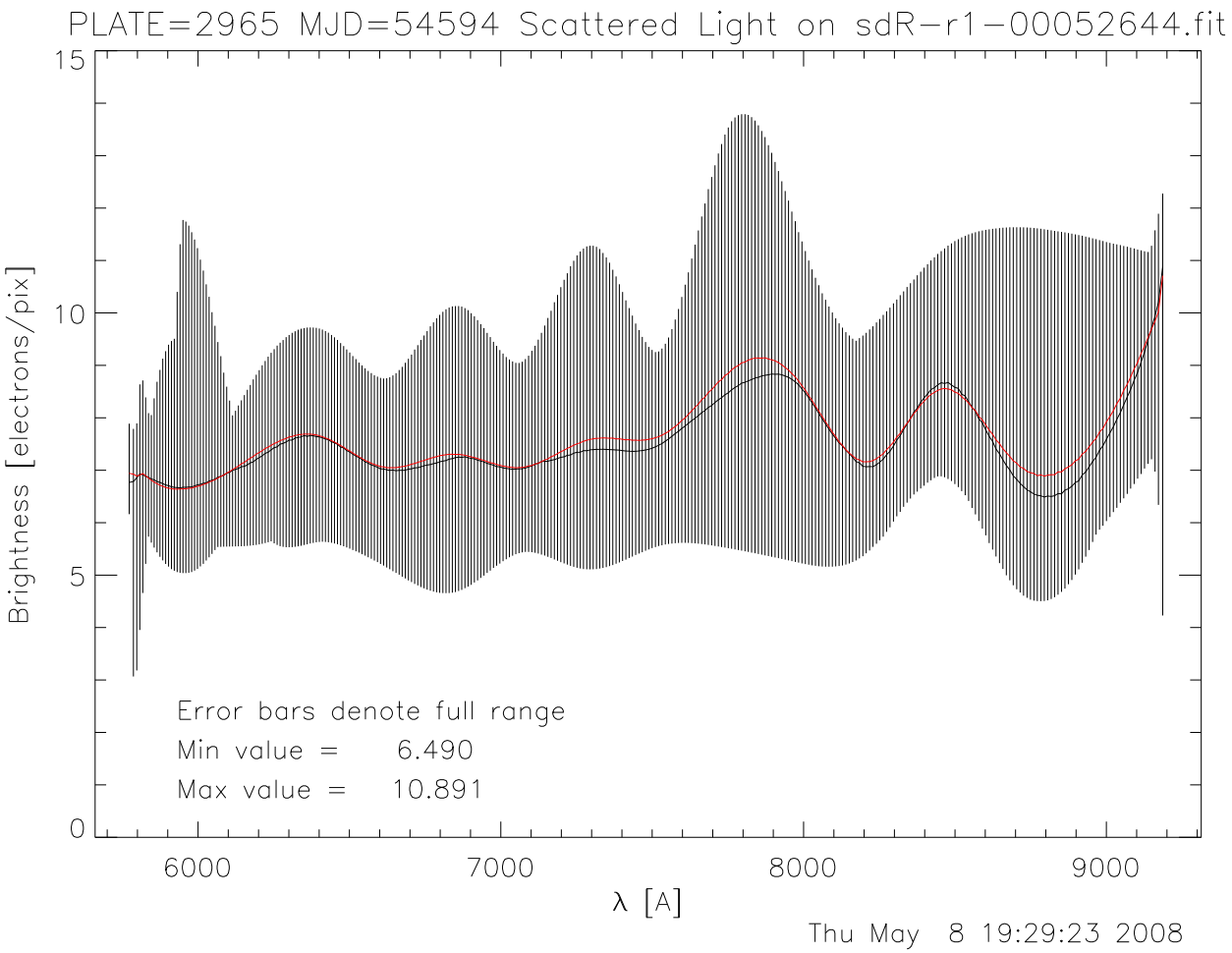

PLATE=2965 MJD=54594 sdR-r1-00052643.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.72 %
Fiber number
Focal Distance [mm]
Airmass

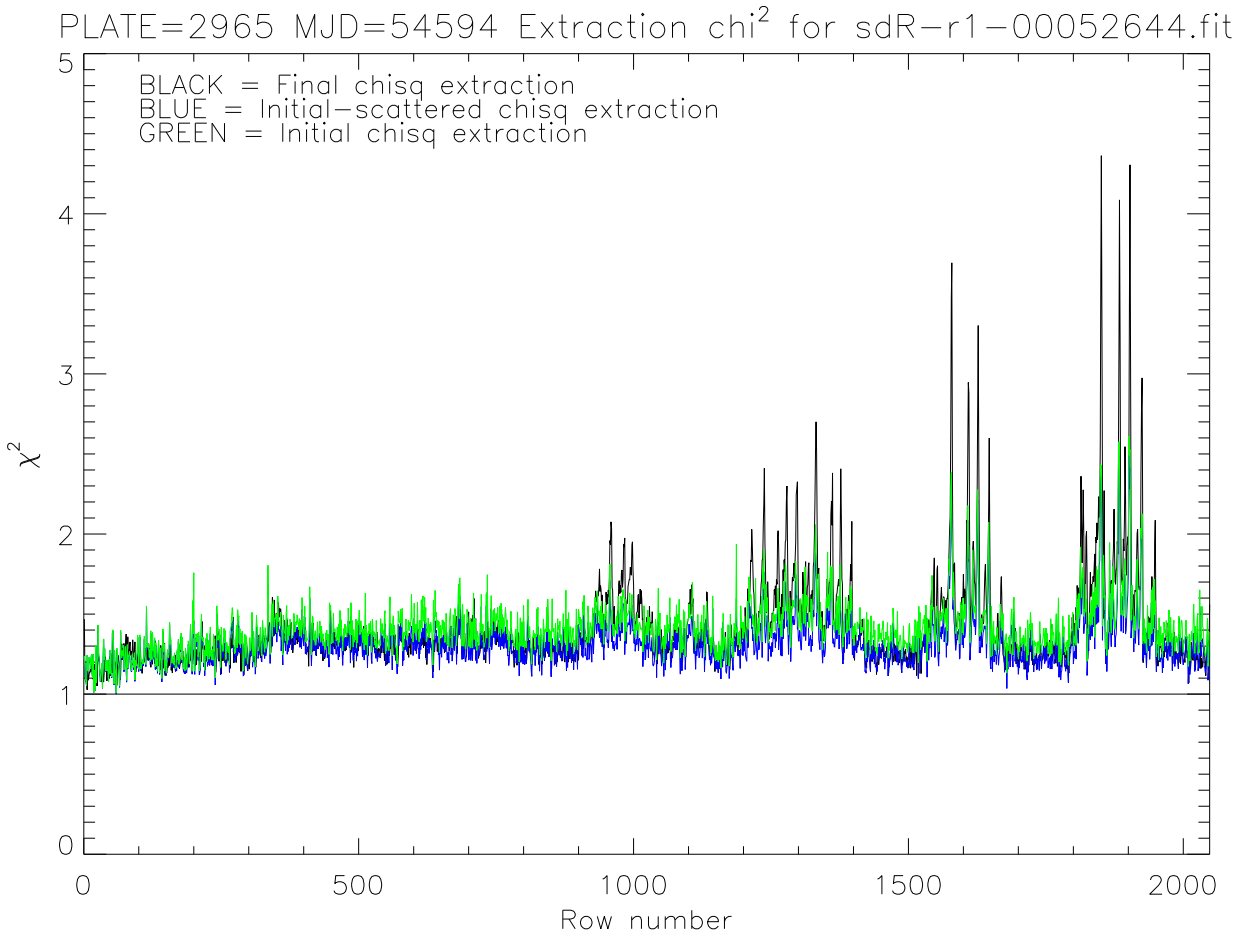

PLATE=2965 MJD=54594 Fiber−Flats for sdR−r1−00052646.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.467
Max value = 1.348
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Thu May 8 19:26:13 2008

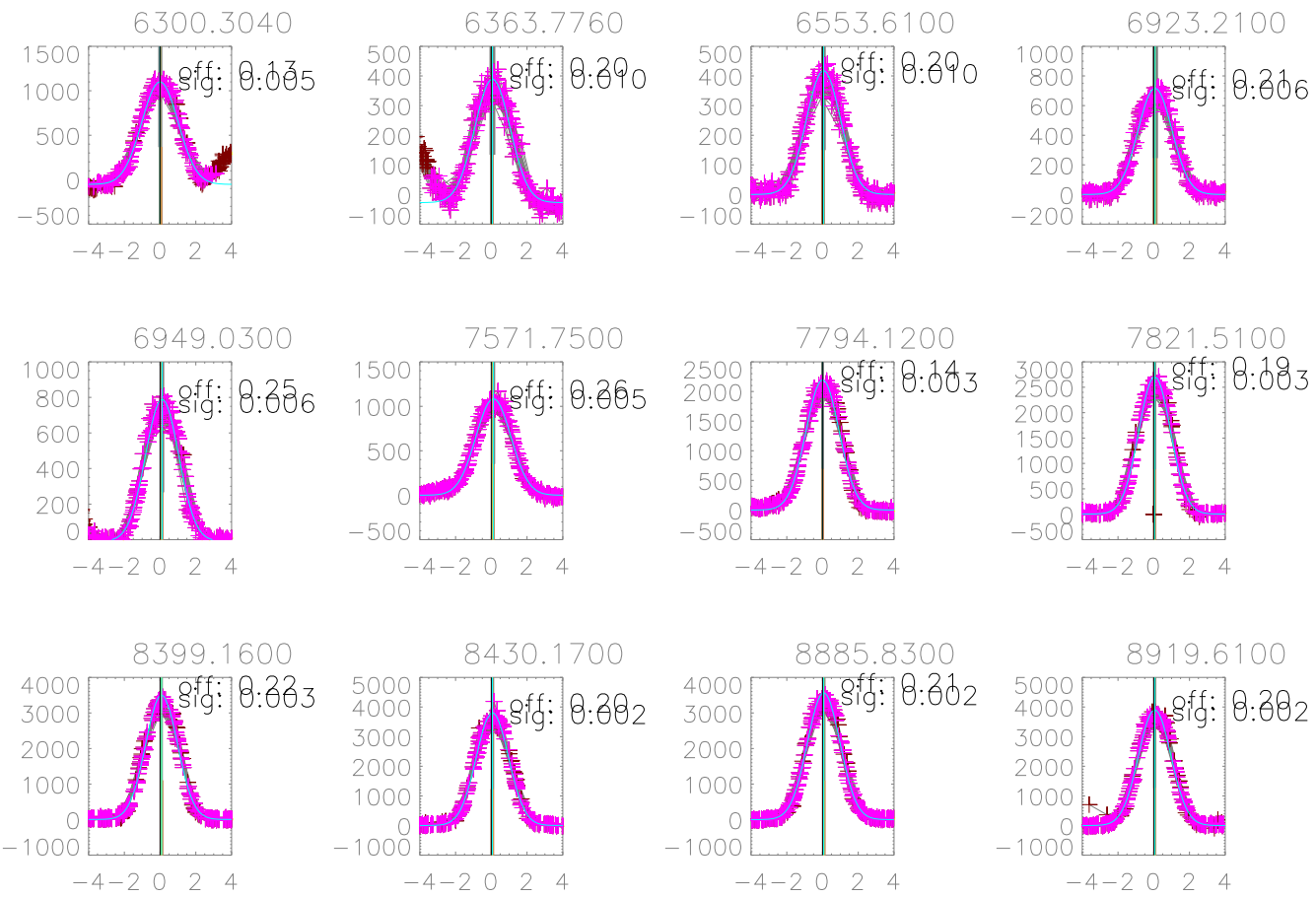

PLATE=2965 MJD=54594 Scattered Light before halo removal on sdR-r1-00052644.fi
38.2
49.1
38.2
38.2
27.3
27.3
27.3
16.4
16.4
Y [pix]
X [pix]
0
500
1000
1500
2000

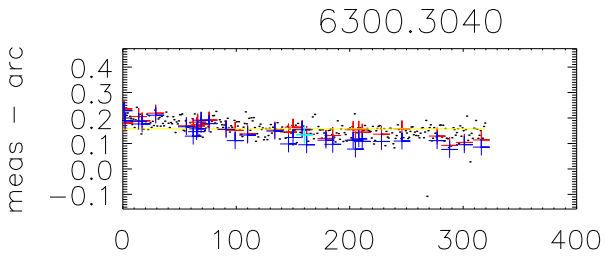

PLATE=2965 MJD=54594 Scattered Light before halo removal on sdR-r1-00052644.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.948
Max value = 44.188
Thu May 8 19:27:00 2008

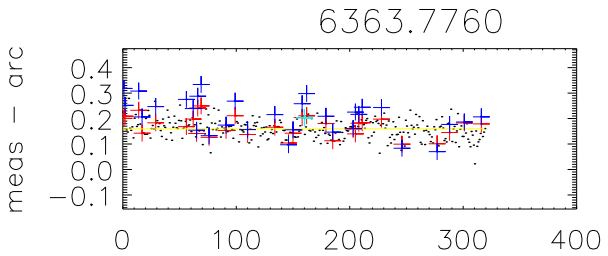

PLATE=2965 MJD=54594 Scattered Light on sdR-r1-00052644.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
7.5
9.6
5.3

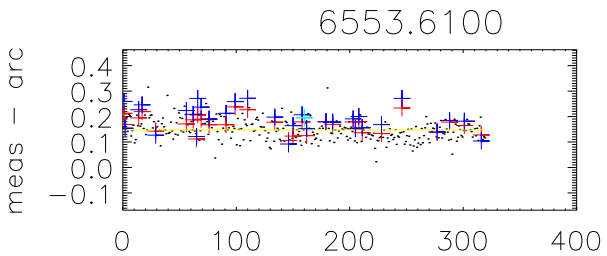

PLATE=2965 MJD=54594 Scattered Light on sdR-r1-00052644.fit
Brightness [electrons/pix]
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 6.490
Max value = 10.891
Thu May 8 19:29:23 2008

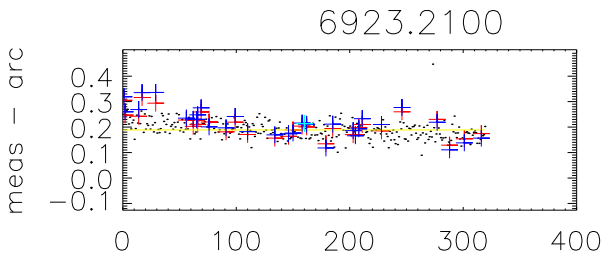

PLATE=2965 MJD=54594 Extraction chi^2 for sdR−r1−00052644.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

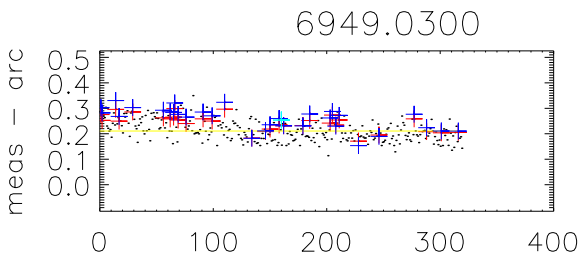

6300.3040
off: 0.13
sig: 0.005
6363.7760
off: 0.20
sig: 0.010
6553.6100
off: 0.20
sig: 0.010
6923.2100
off: 0.21
sig: 0.006
6949.0300
off: 0.25
sig: 0.006
7571.7500
off: 0.26
sig: 0.005
7794.1200
off: 0.14
sig: 0.003
7821.5100
off: 0.19
sig: 0.003
8399.1600
off: 0.22
sig: 0.003
8430.1700
off: 0.20
sig: 0.002
8885.8300
off: 0.21
sig: 0.002
8919.6100
off: 0.20
sig: 0.002

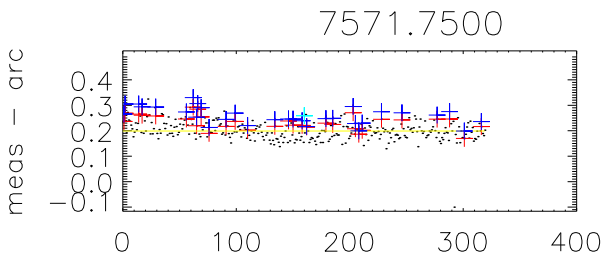

6300.3040
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

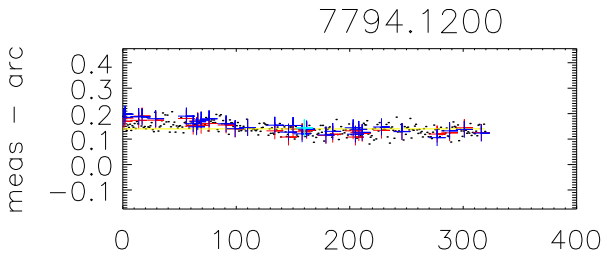

6363.7760
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

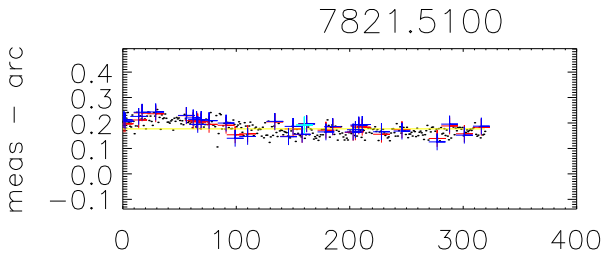

6553.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

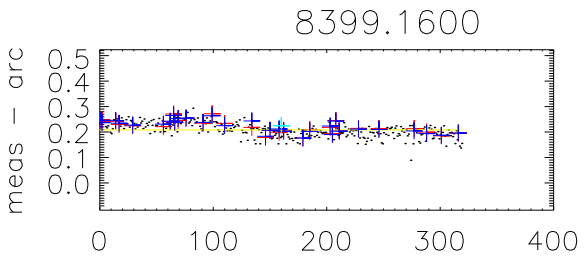

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

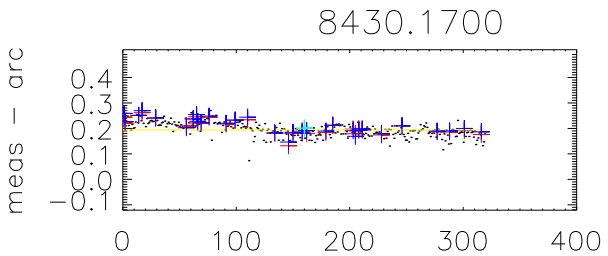

6949.0300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

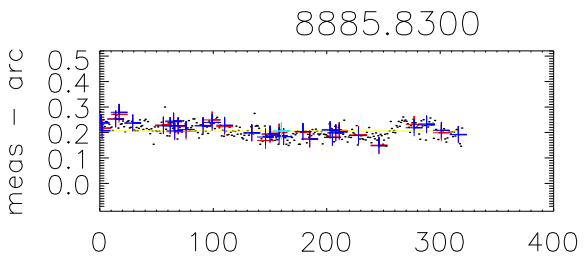

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

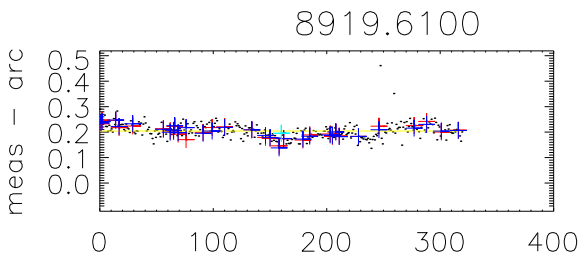

7794.1200
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

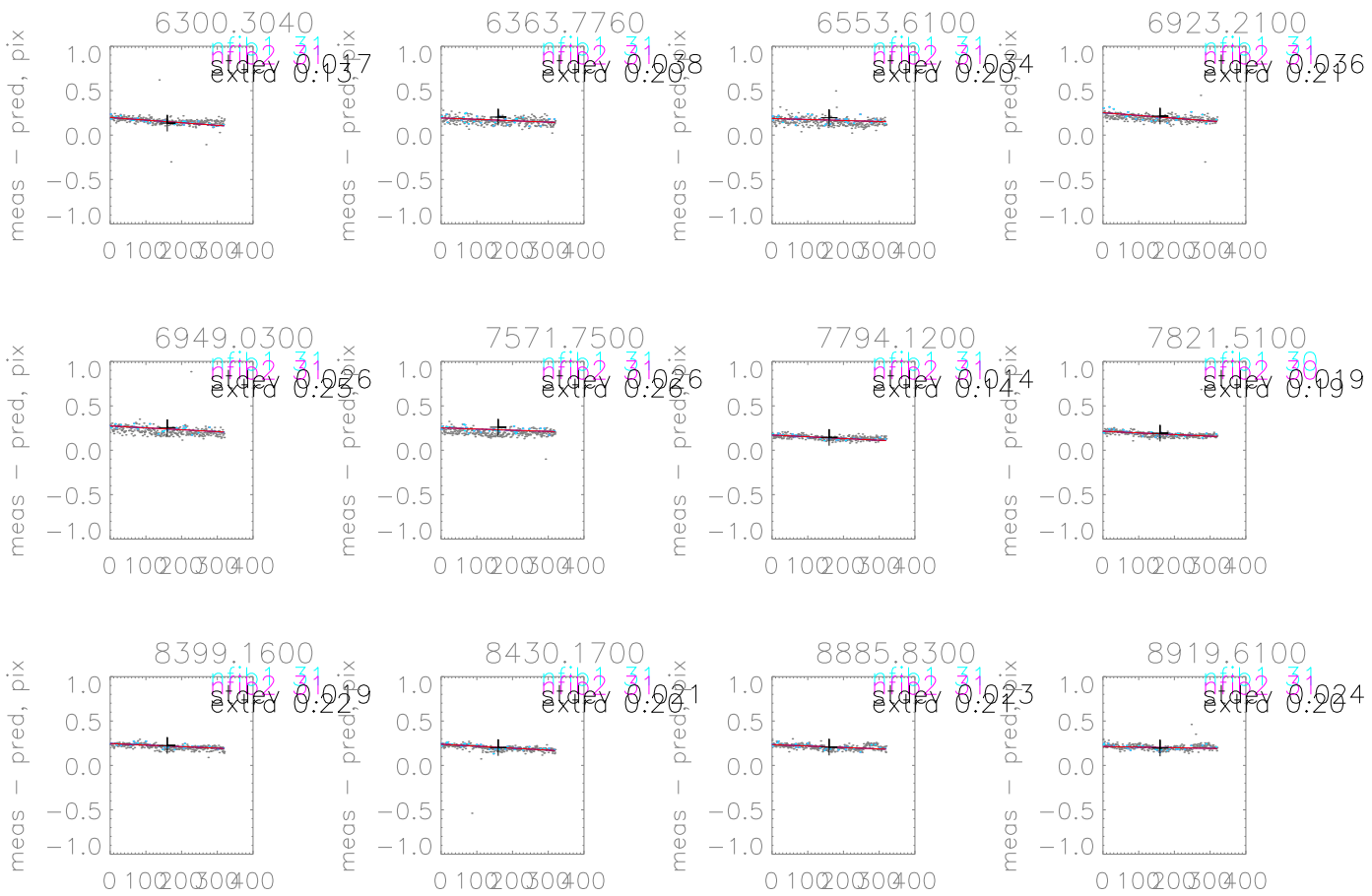

7821.5100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

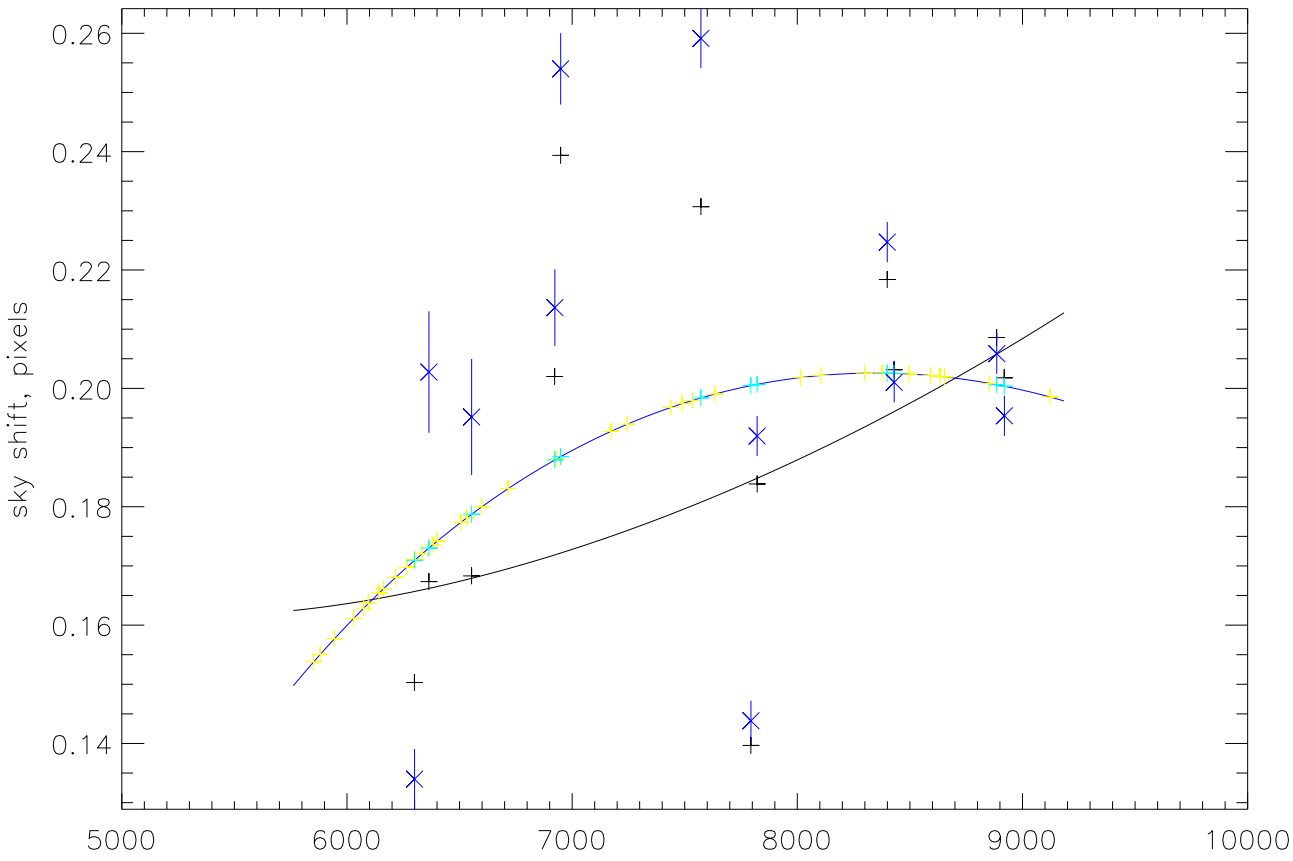

8399.1600
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400


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

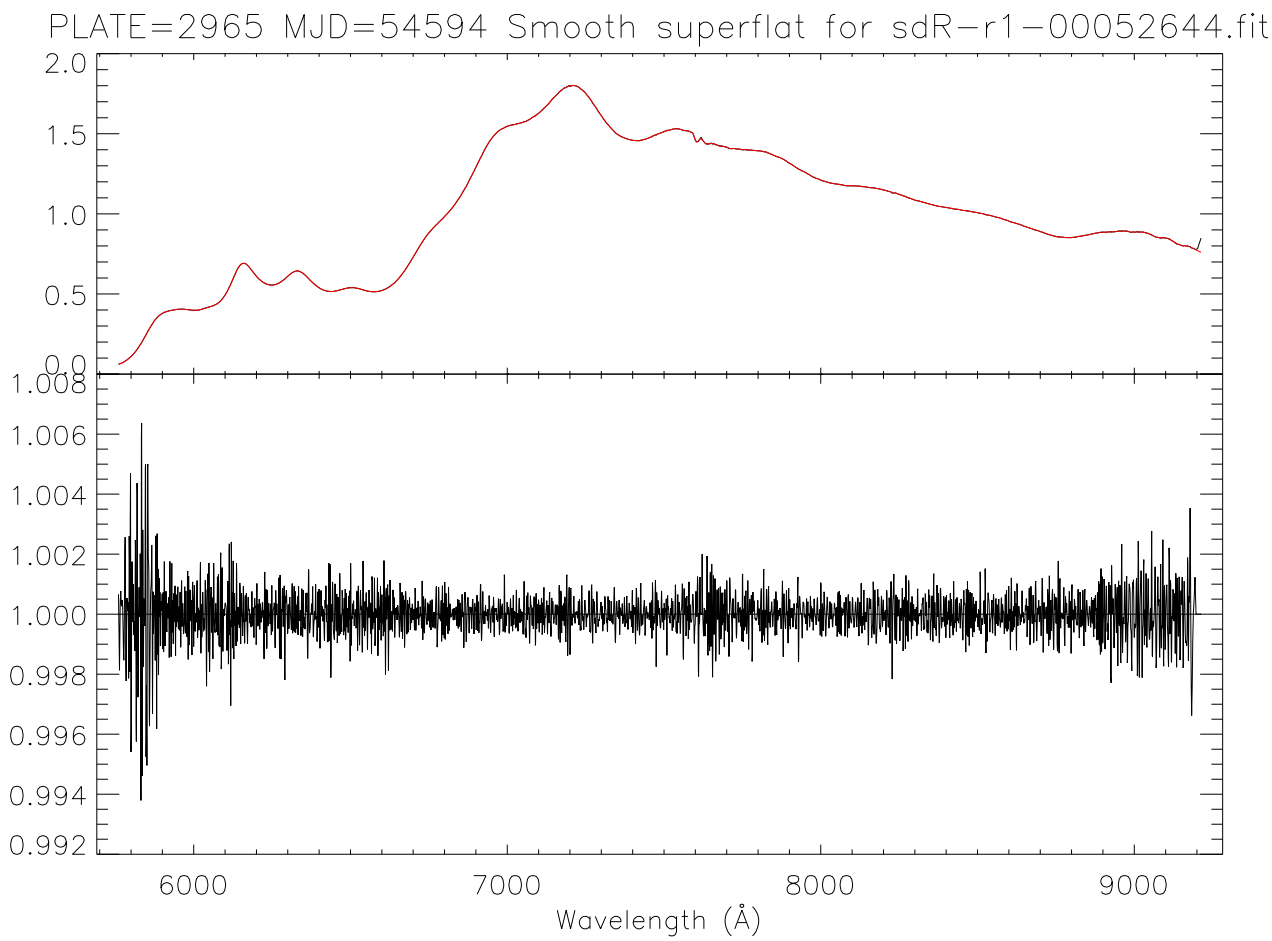

8885.8300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

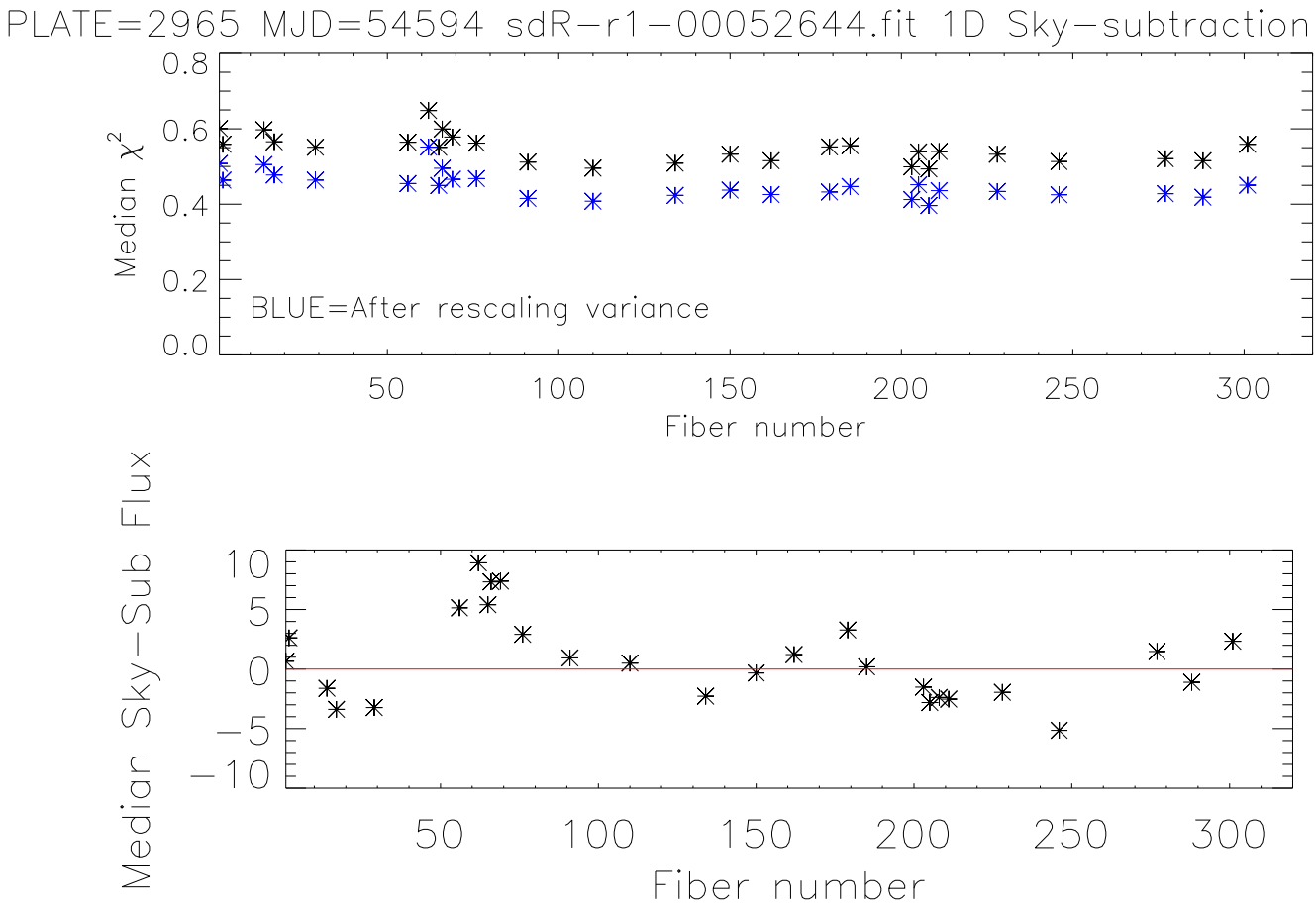

8919.6100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

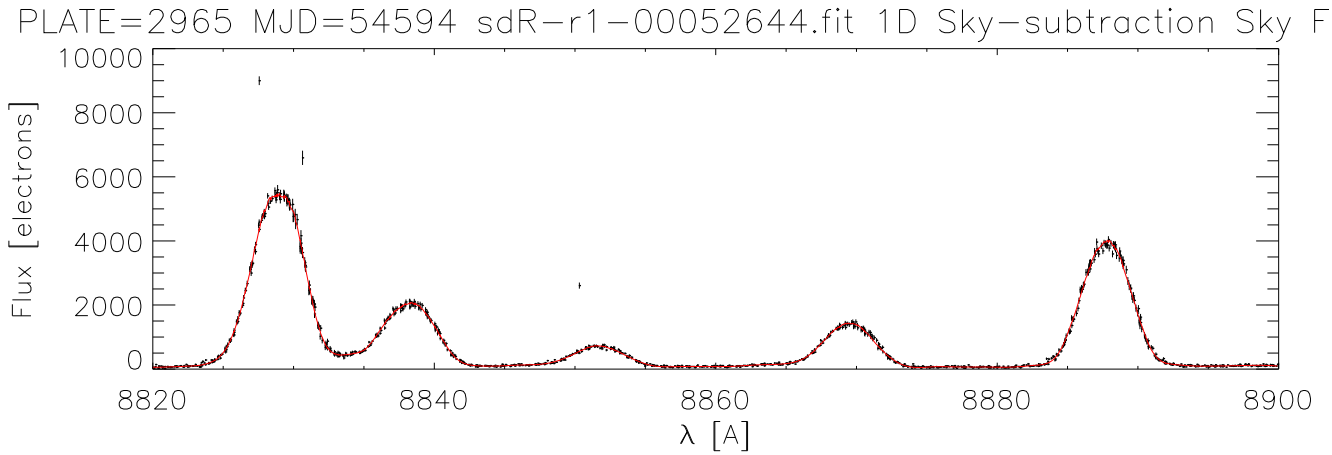

6300.3040
mfib1 31
mfib2 31
stdev 0.017
extra 0.13
6363.7760
mfib1 31
mfib2 31
stdev 0.038
extra 0.208
6553.6100
mfib1 31
mfib2 31
stdev 0.034
extra 0.204
6923.2100
mfib1 31
mfib2 31
stdev 0.036
extra 0.21
6949.0300
mfib1 31
mfib2 31
stdev 0.026
extra 0.25
7571.7500
mfib1 31
mfib2 31
stdev 0.026
extra 0.26
7794.1200
mfib1 31
mfib2 31
stdev 0.014
extra 0.14
7821.5100
mfib1 30
mfib2 31
stdev 0.019
extra 0.19
8399.1600
mfib1 31
mfib2 31
stdev 0.019
extra 0.22
8430.1700
mfib1 31
mfib2 31
stdev 0.021
extra 0.24
8885.8300
mfib1 31
mfib2 31
stdev 0.023
extra 0.21
8919.6100
mfib1 31
mfib2 31
stdev 0.024
extra 0.26
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

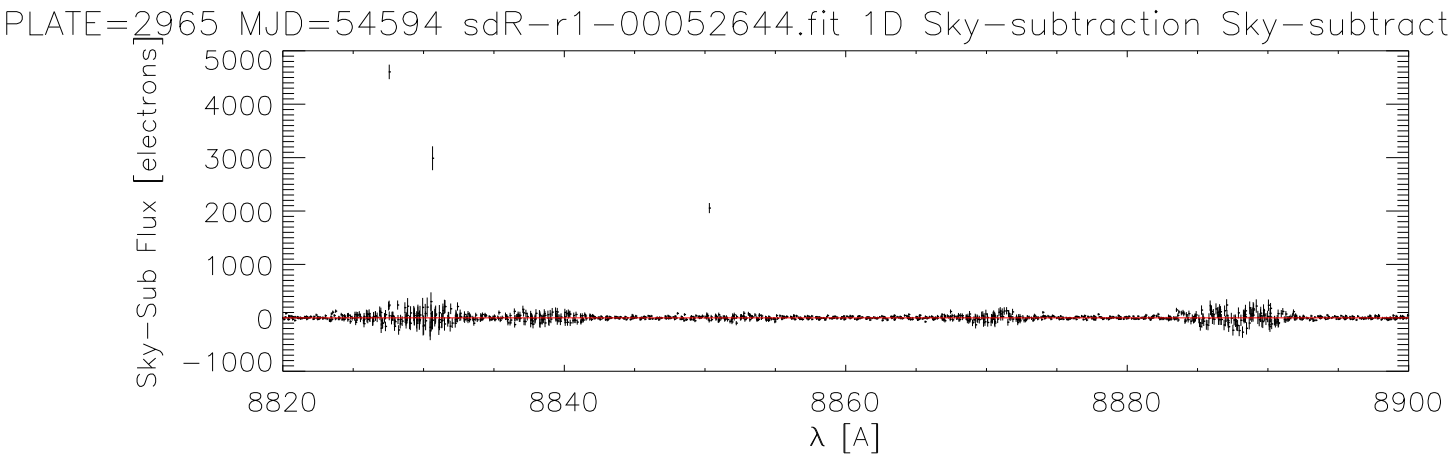

sky shift, pixels
0.26
0.24
0.22
0.20
0.18
0.16
0.14
5000
6000
7000
8000
9000
10000

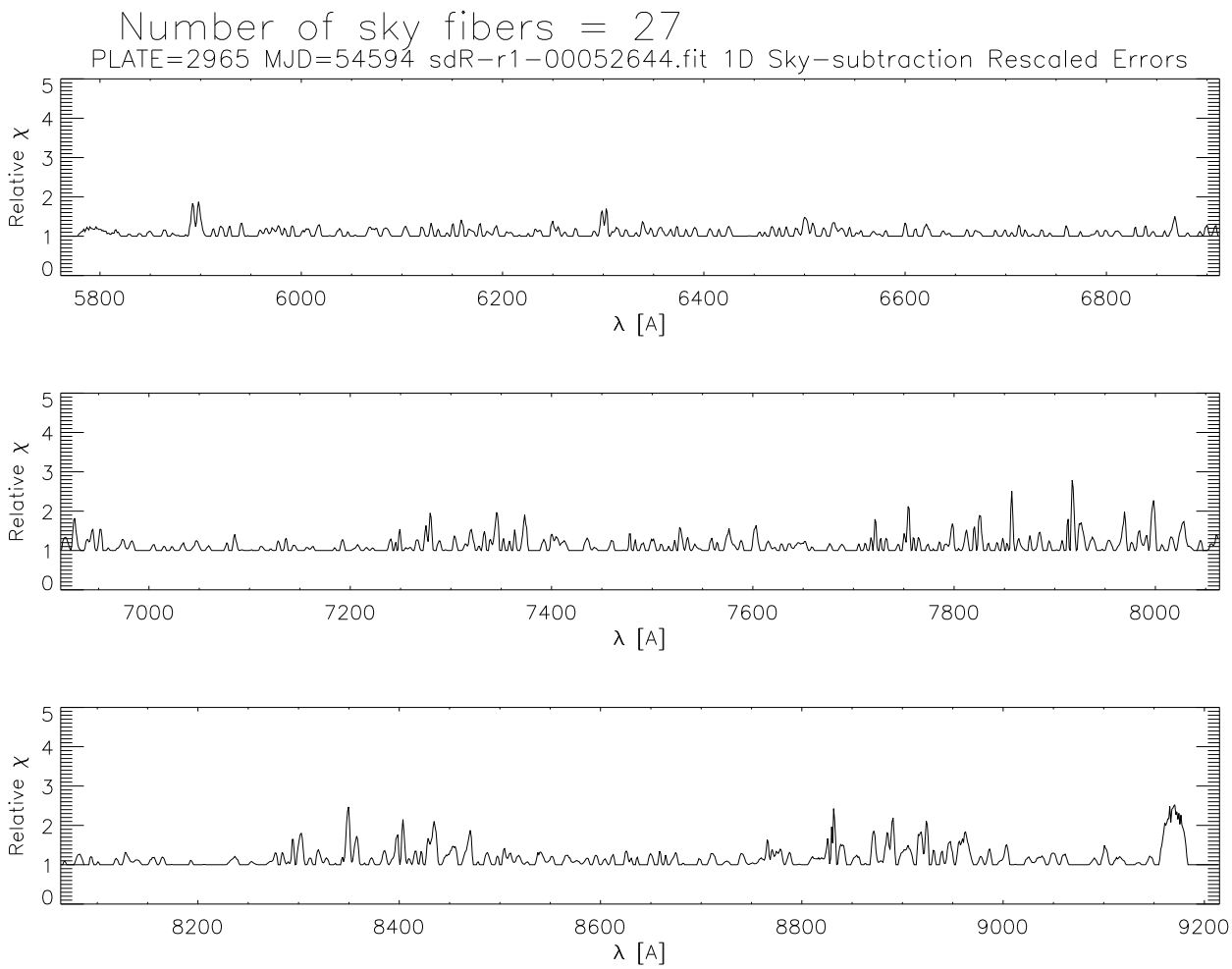
es= 0.0000

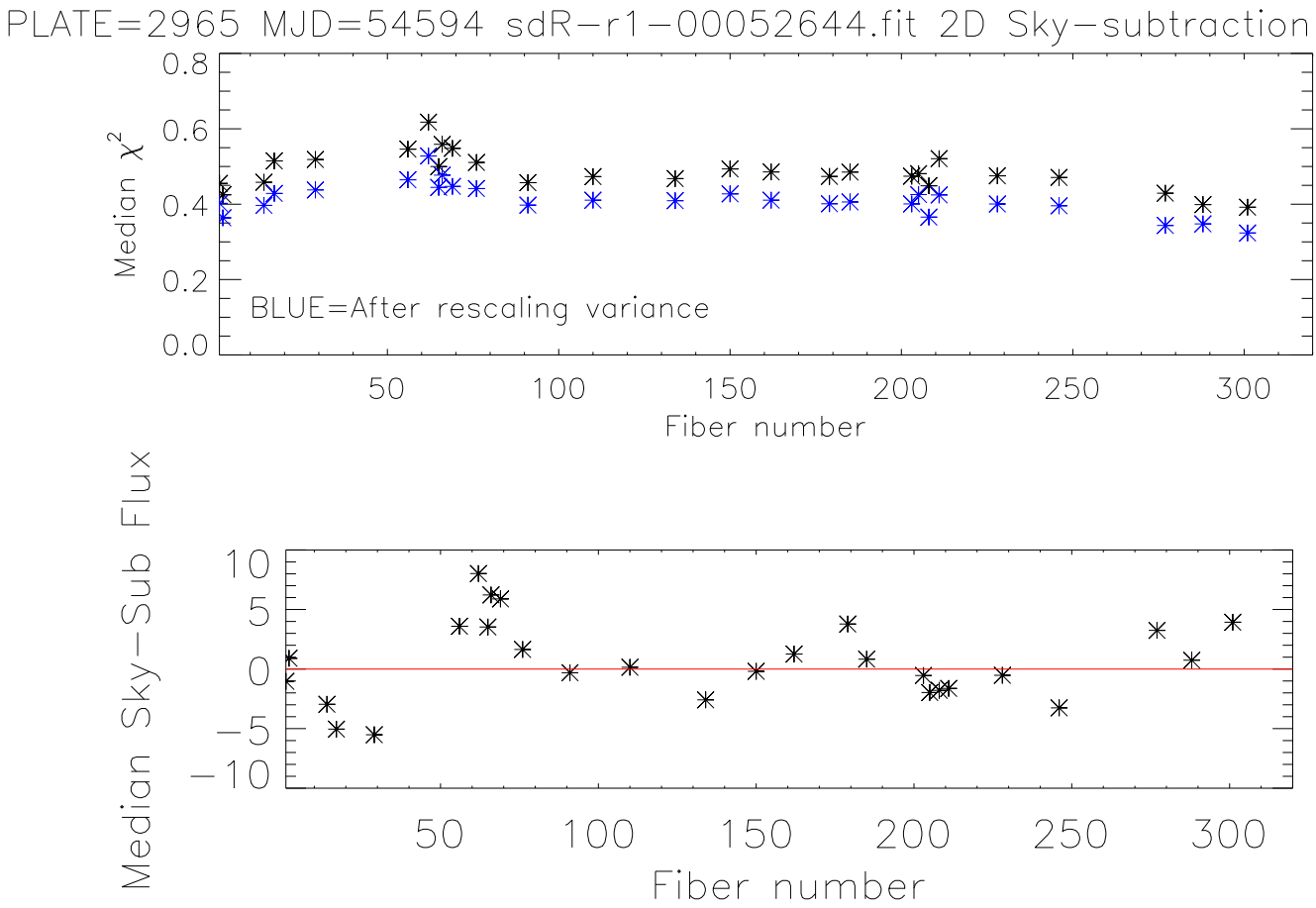

PLATE=2965 MJD=54594 Smooth superflat for sdR-r1-00052644.fit
2.0
1.5
1.0
0.5
0.0
1.008
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
6000
7000
8000
9000
Wavelength (Å)

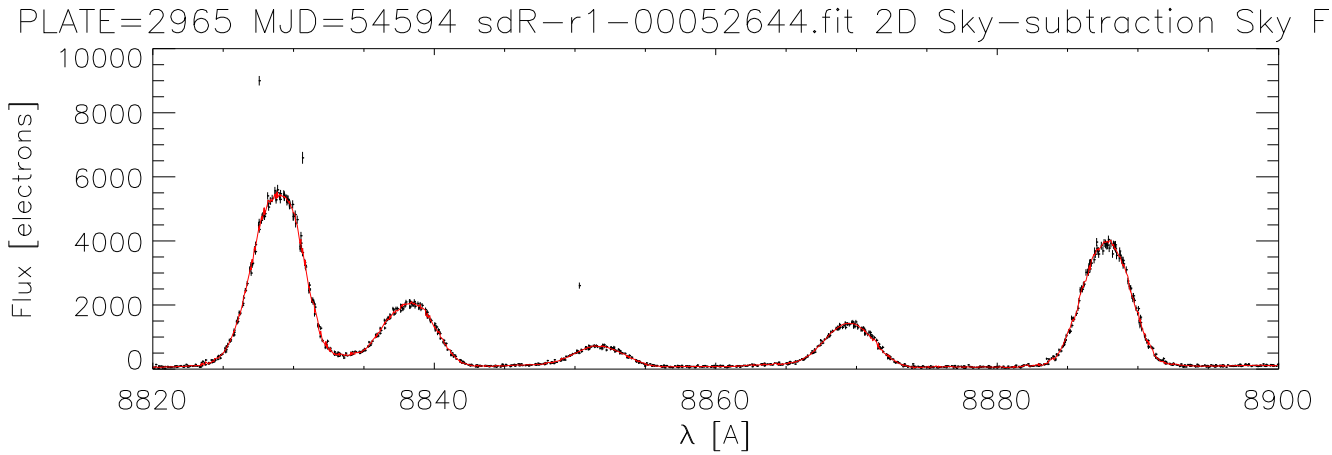

PLATE=2965 MJD=54594 sdR-r1-00052644.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

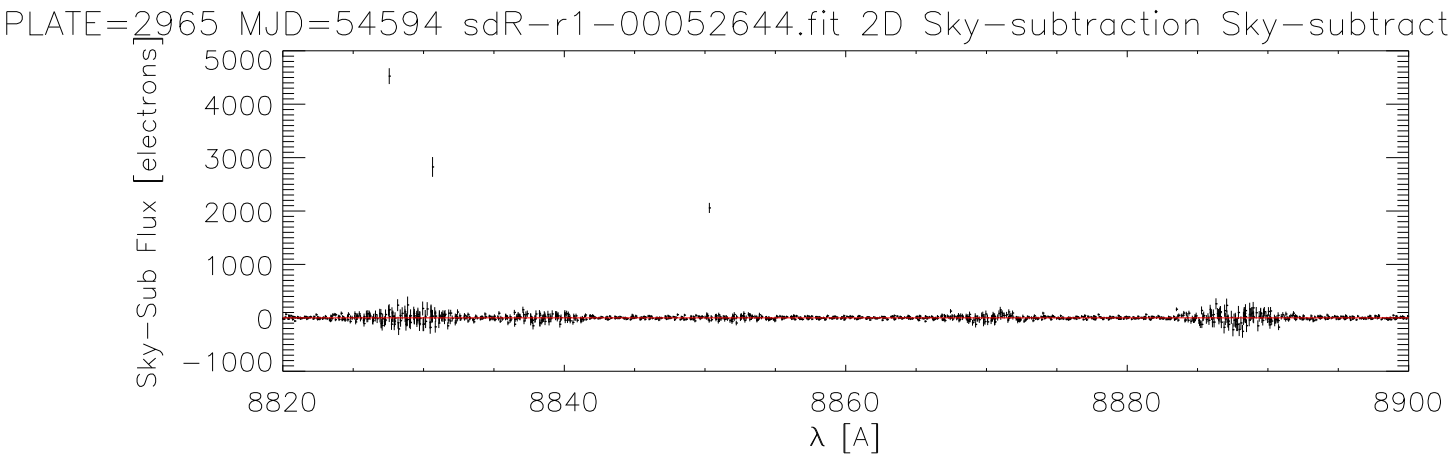

PLATE=2965 MJD=54594 sdR-r1-00052644.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

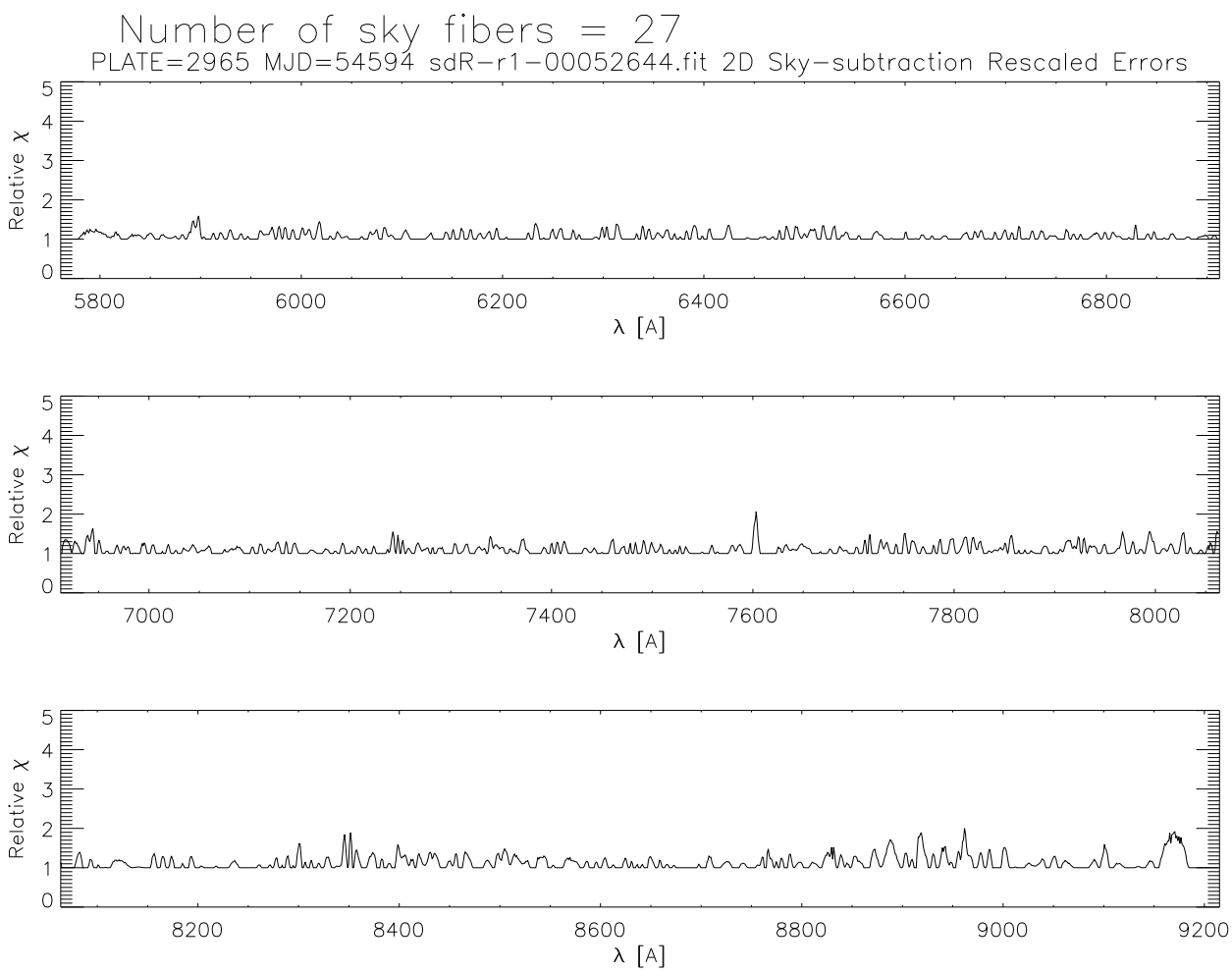

PLATE=2965 MJD=54594 sdR-r1-00052644.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
5000
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

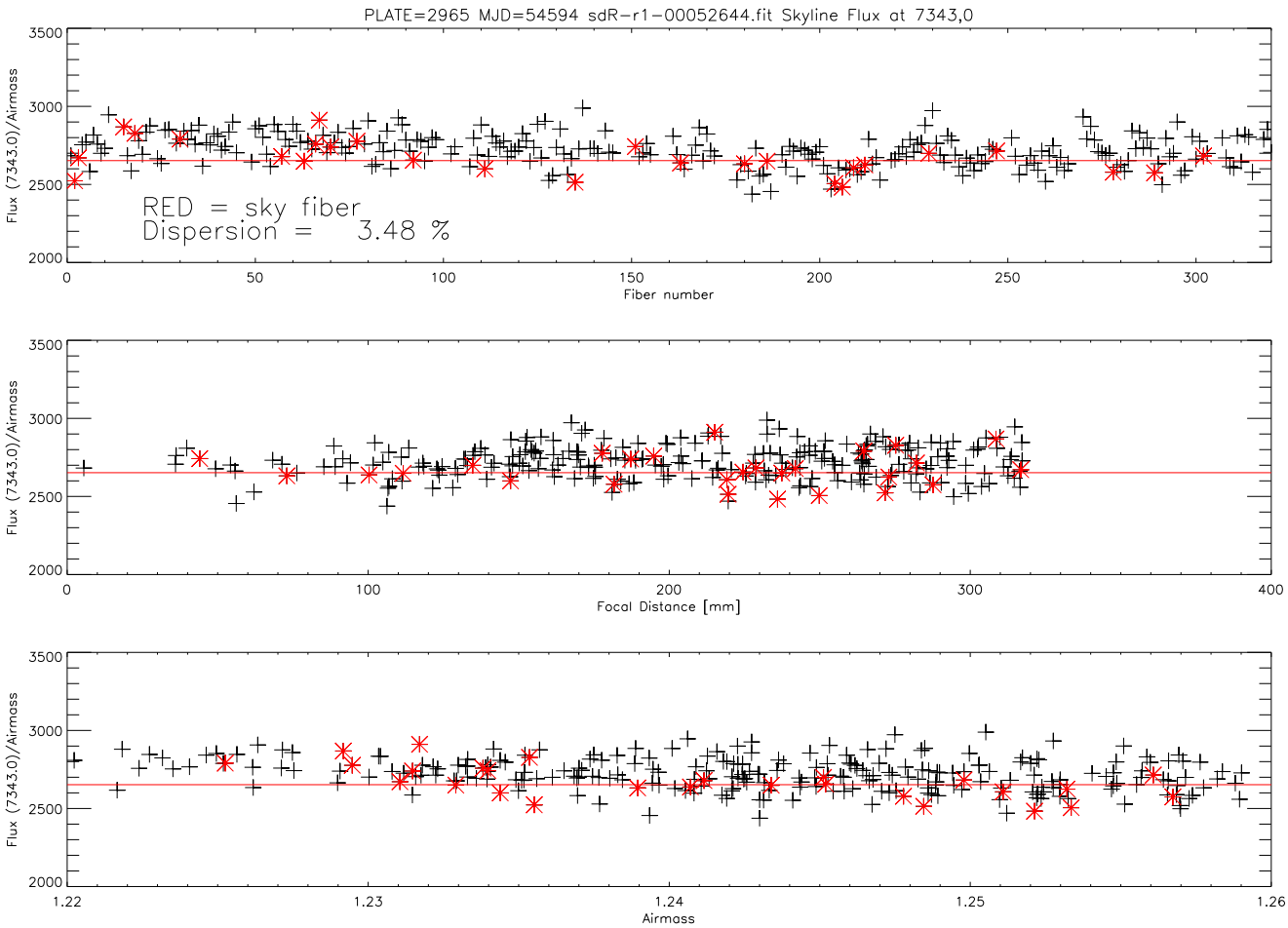

Number of sky fibers = 27
PLATE=2965 MJD=54594 sdR-r1-00052644.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

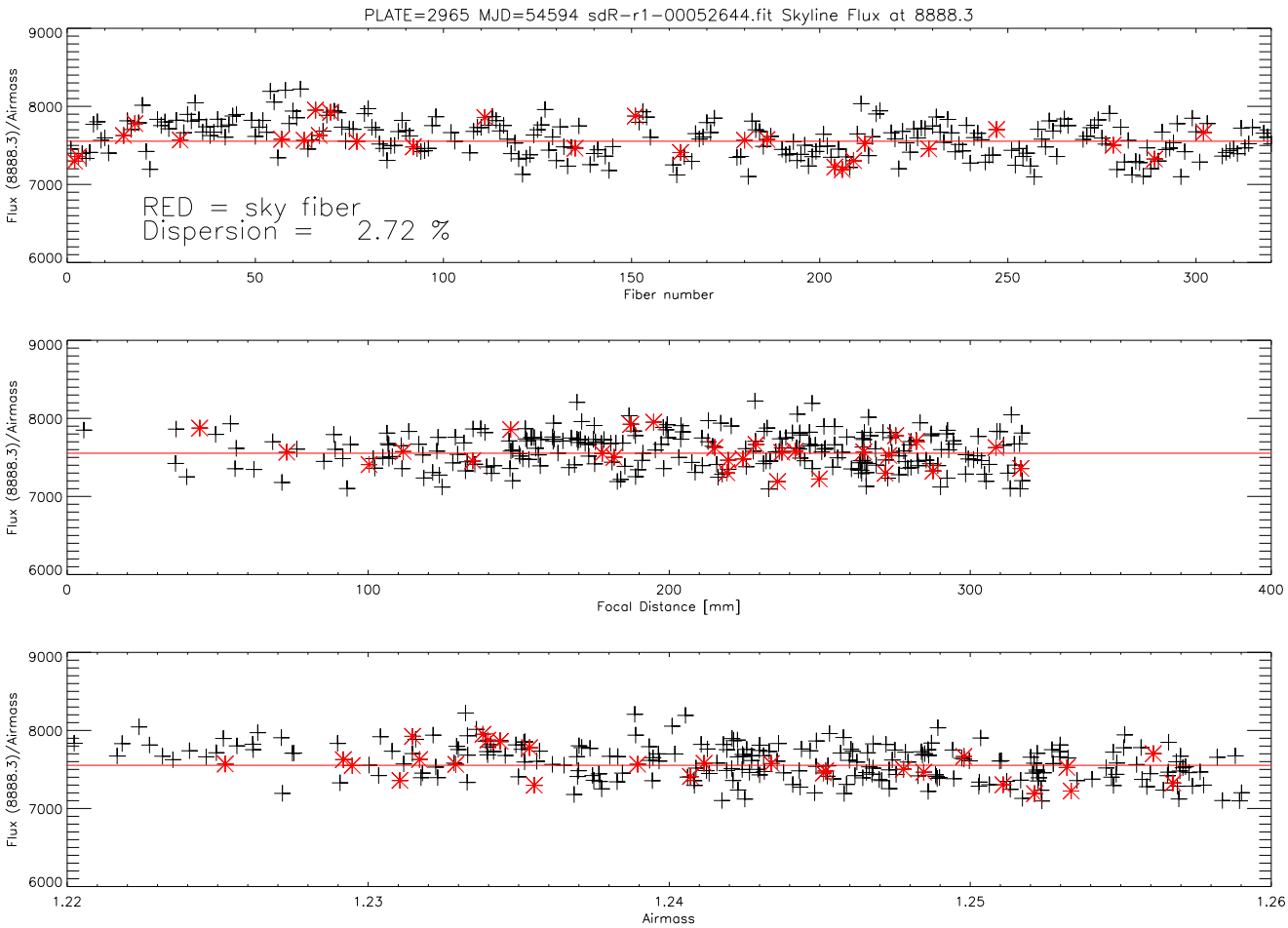

PLATE=2965 MJD=54594 sdR-r1-00052644.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

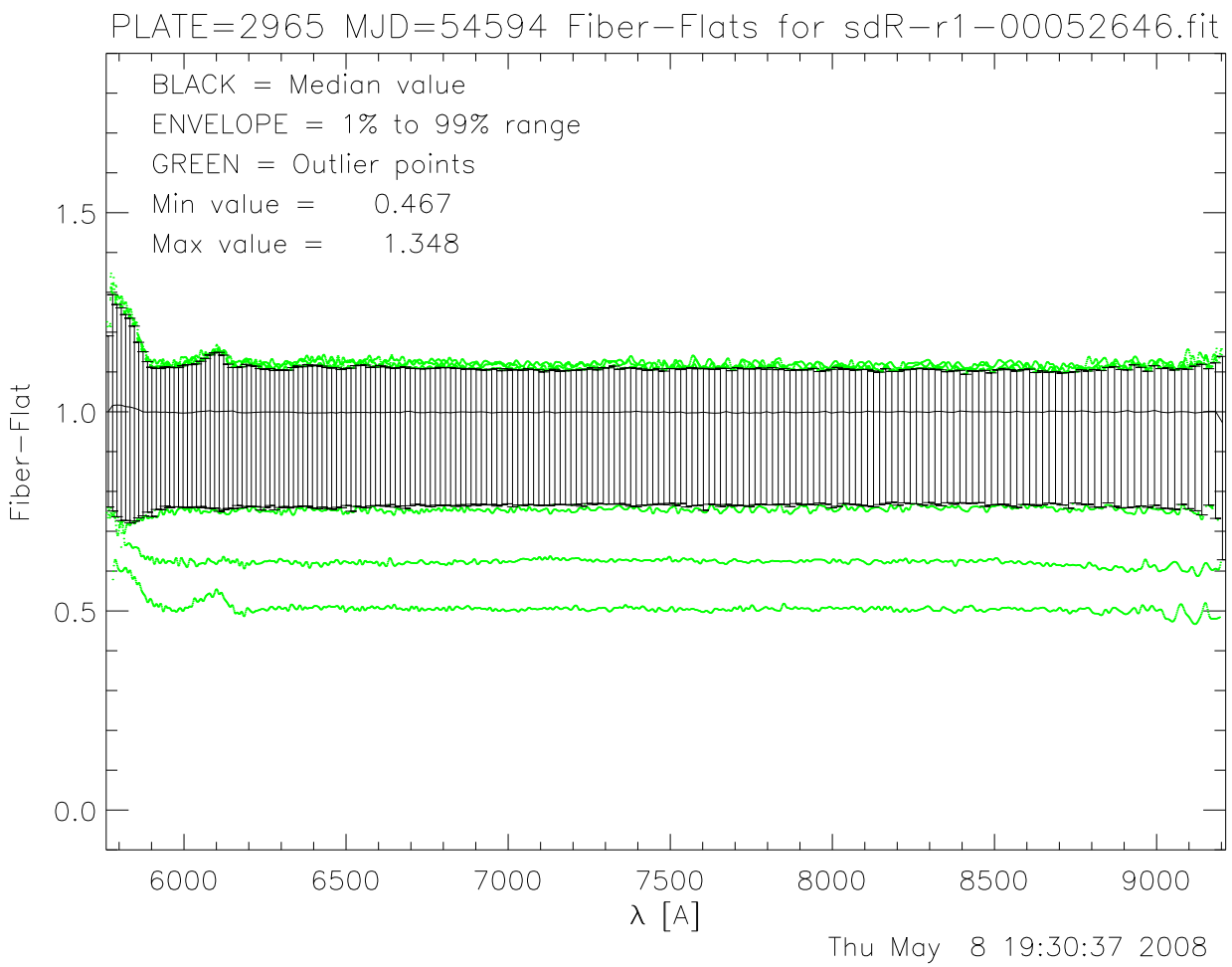

PLATE=2965 MJD=54594 sdR-r1-00052644.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

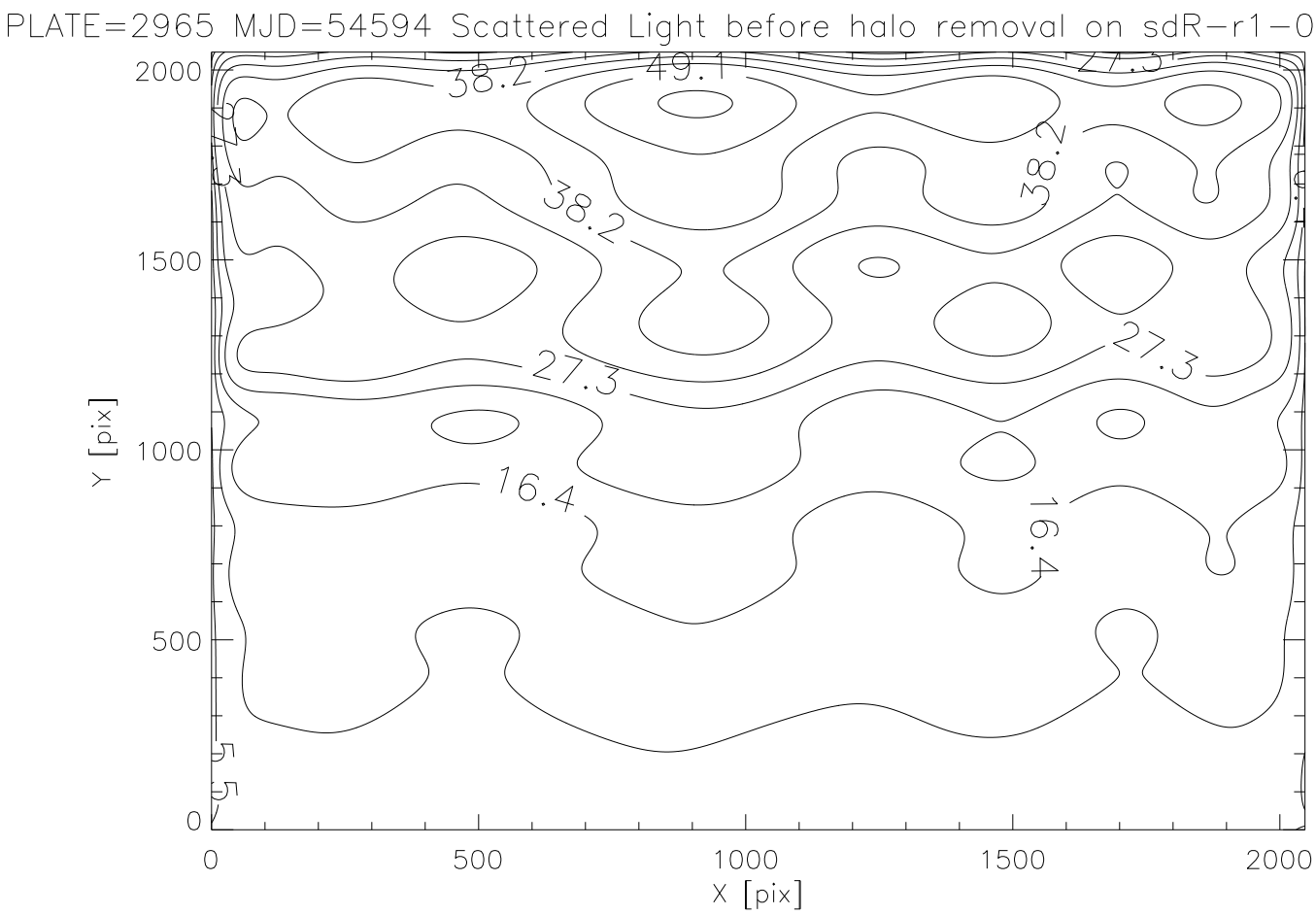

PLATE=2965 MJD=54594 sdR-r1-00052644.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
5000
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

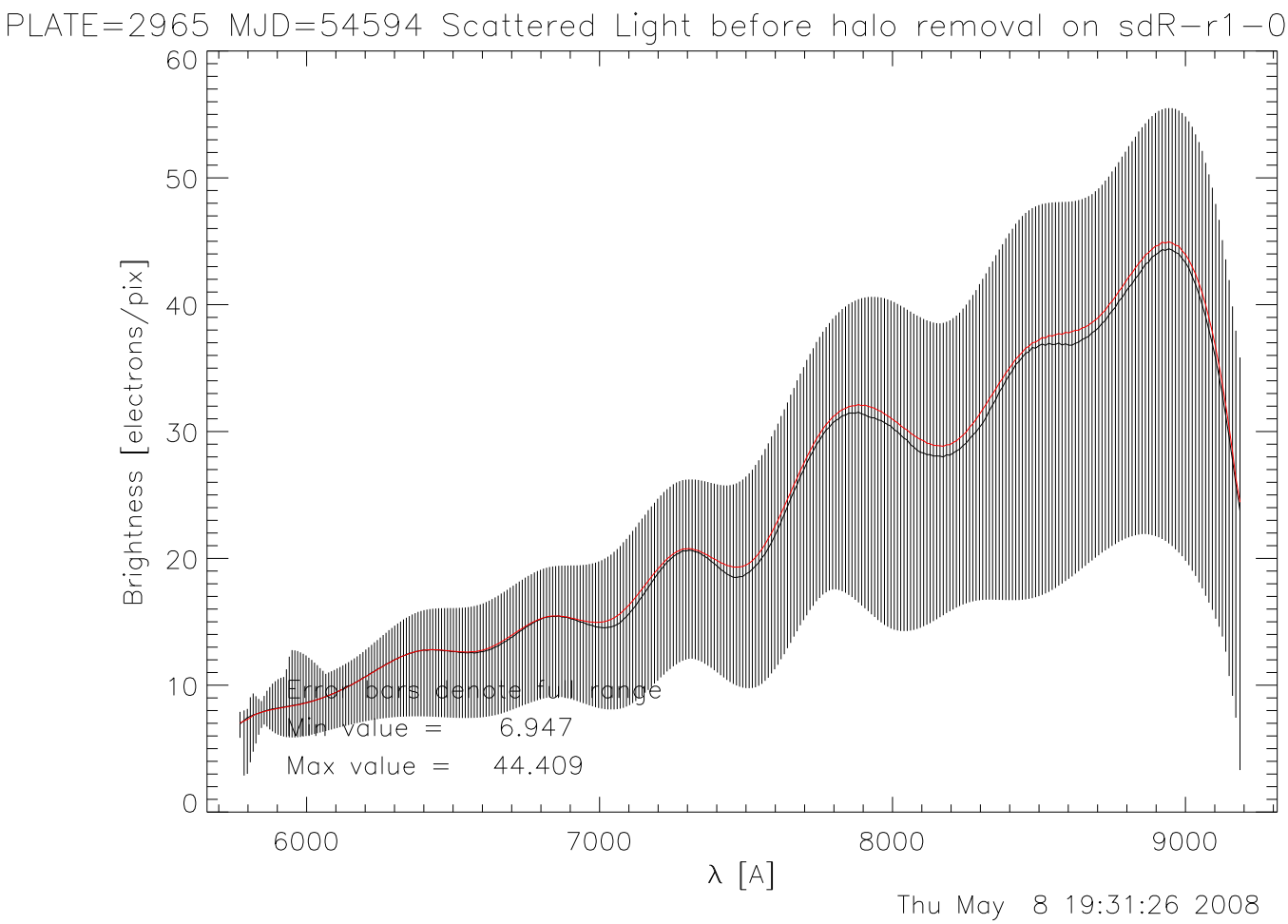

Number of sky fibers = 27
PLATE=2965 MJD=54594 sdR-r1-00052644.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

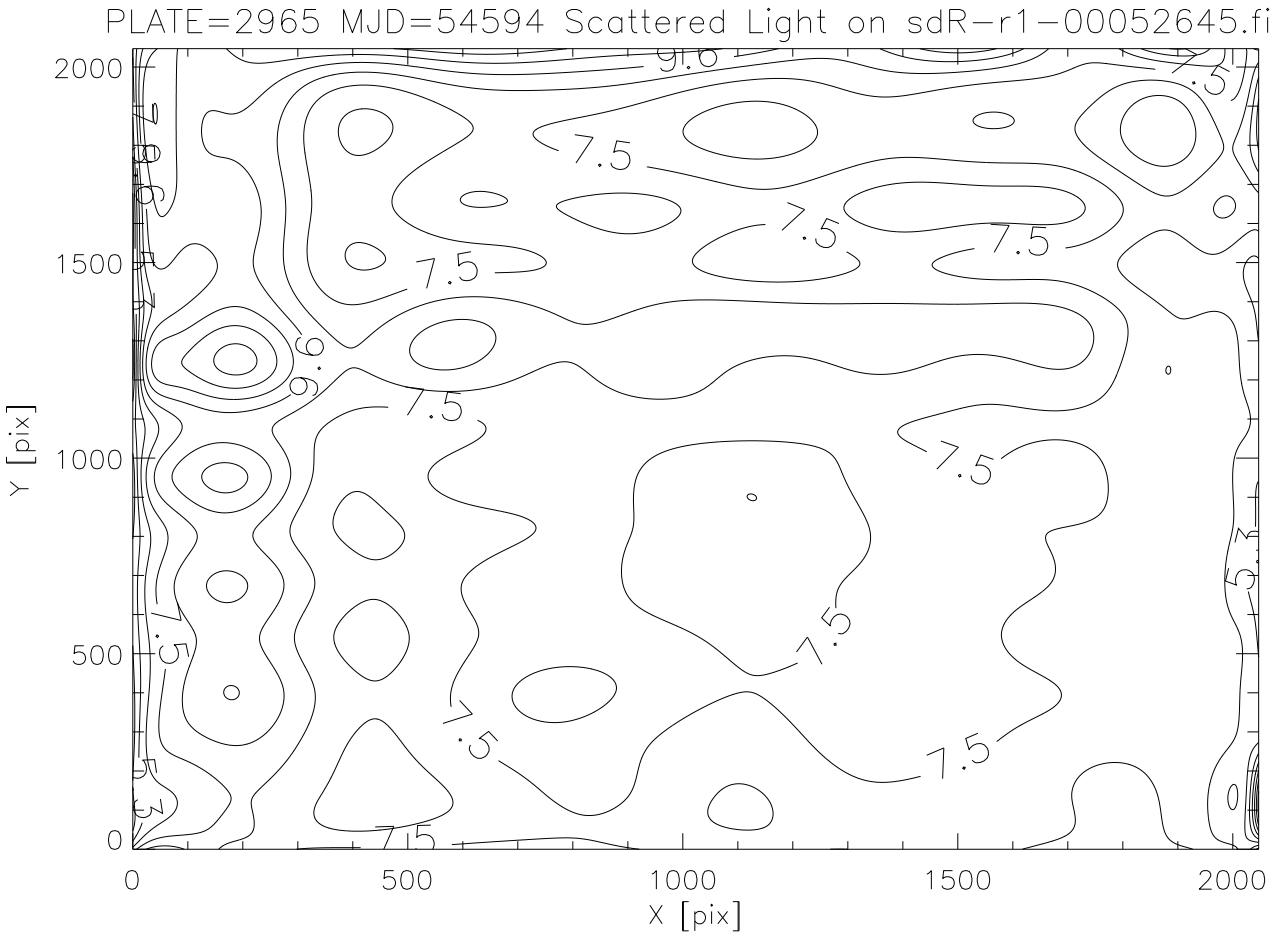

PLATE=2965 MJD=54594 sdR-r1-00052644.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.48 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

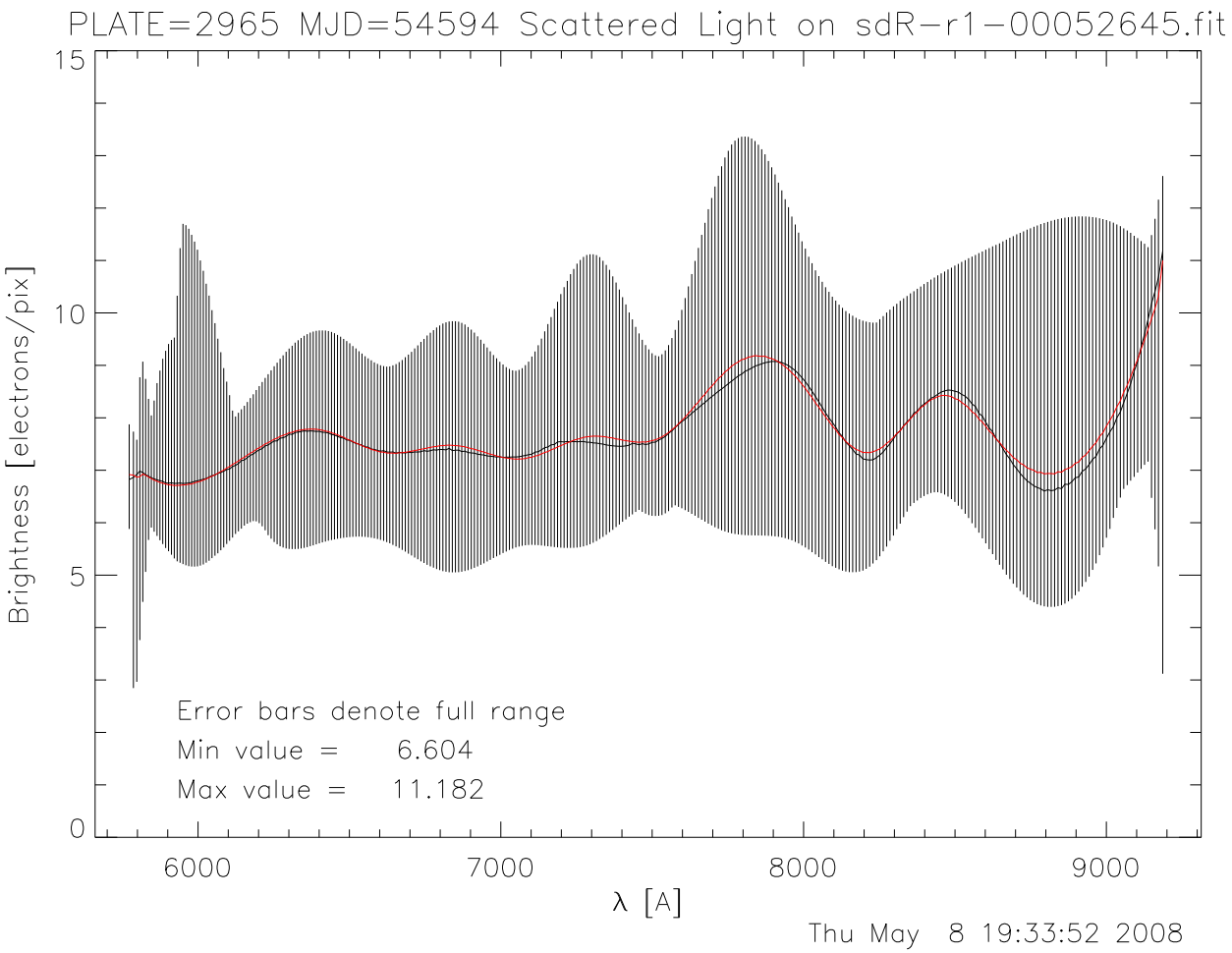

PLATE=2965 MJD=54594 sdR-r1-00052644.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.72 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

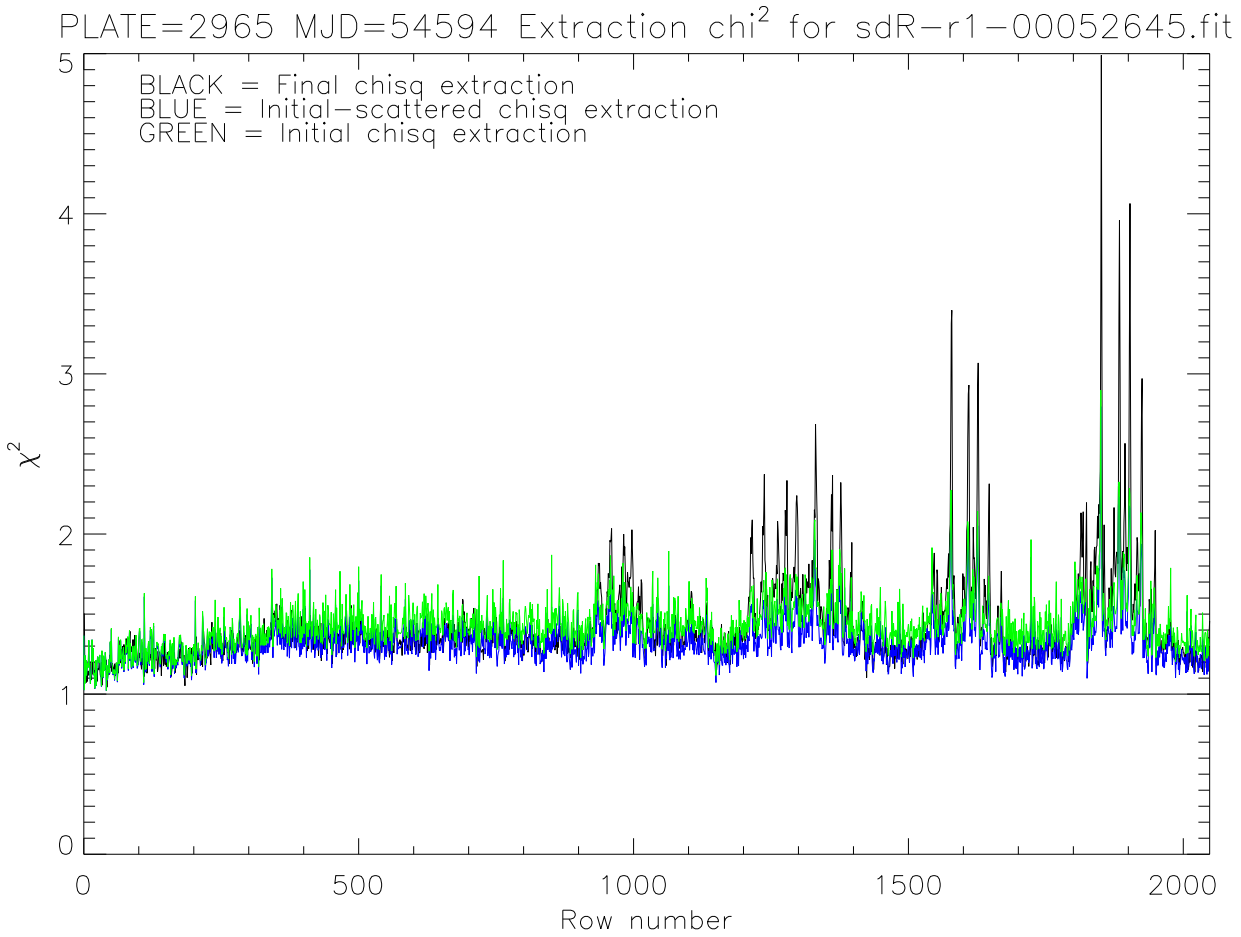

PLATE=2965 MJD=54594 Fiber−Flats for sdR−r1−00052646.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.467
Max value = 1.348
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Thu May 8 19:30:37 2008

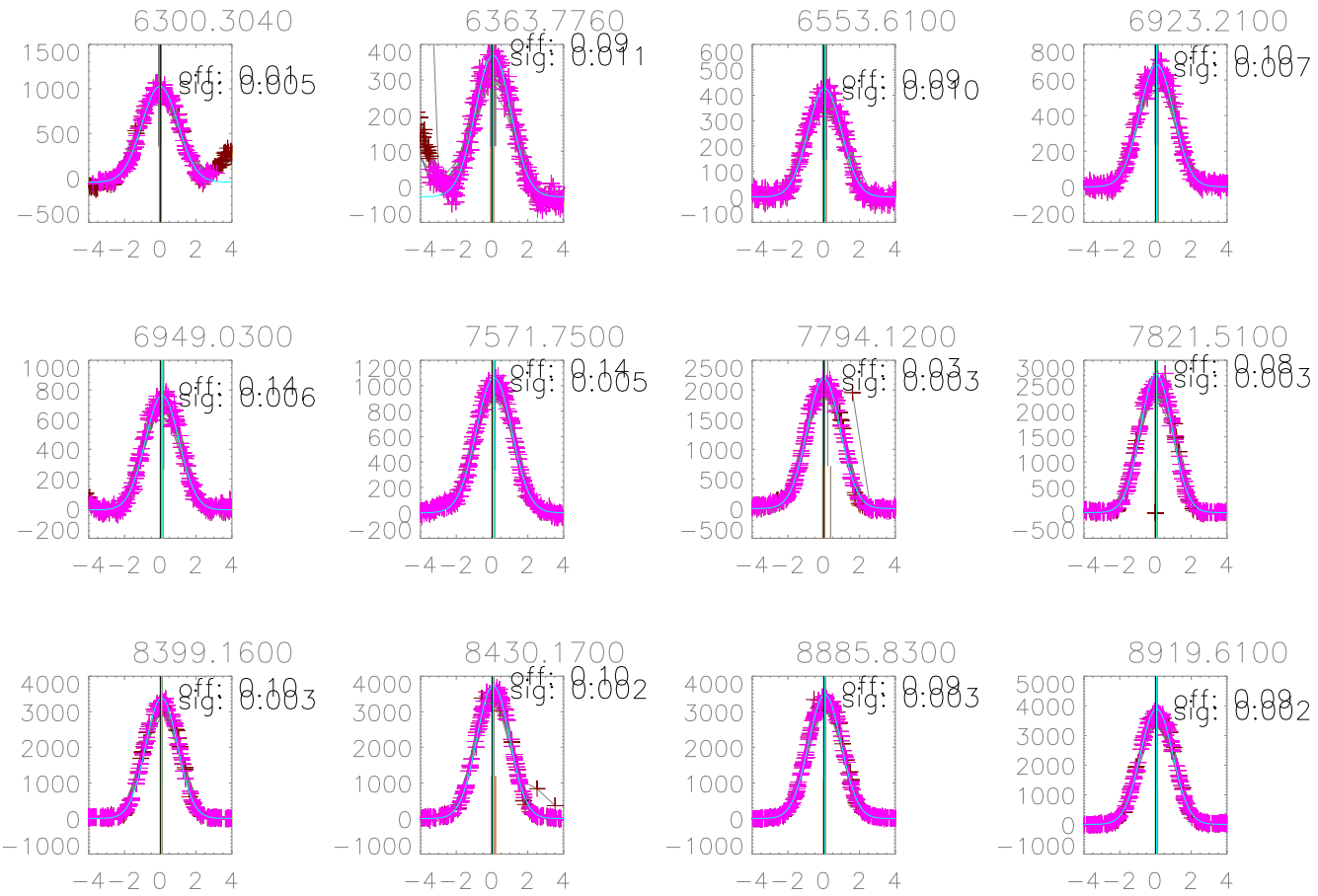

PLATE=2965 MJD=54594 Scattered Light before halo removal on sdR-r1-00052645.fi
38.2
49.1
38.2
38.2
27.3
27.3
16.4
16.4
5.5
5.5
Y [pix]
X [pix]
0
500
1000
1500
2000

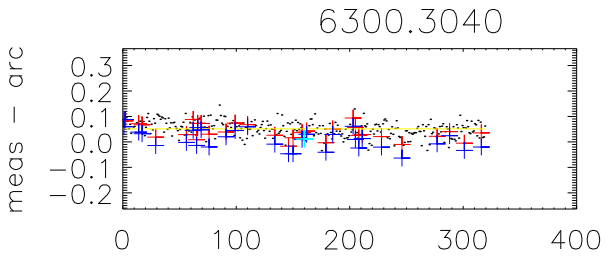

PLATE=2965 MJD=54594 Scattered Light before halo removal on sdR-r1-00052645.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.947
Max value = 44.409
Thu May 8 19:31:26 2008

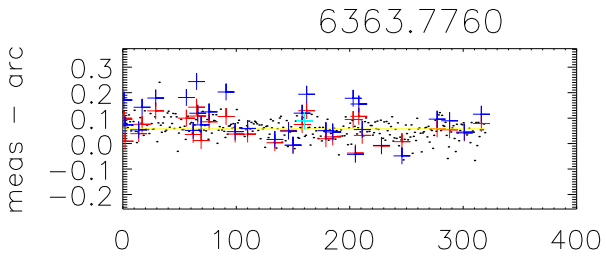

PLATE=2965 MJD=54594 Scattered Light on sdR-r1-00052645.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
7.5
9.6

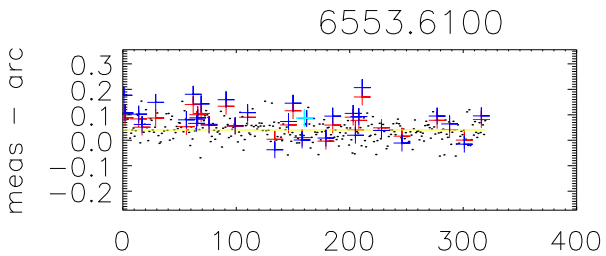

PLATE=2965 MJD=54594 Scattered Light on sdR-r1-00052645.fit
Brightness [electrons/pix]
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 6.604
Max value = 11.182
Thu May 8 19:33:52 2008

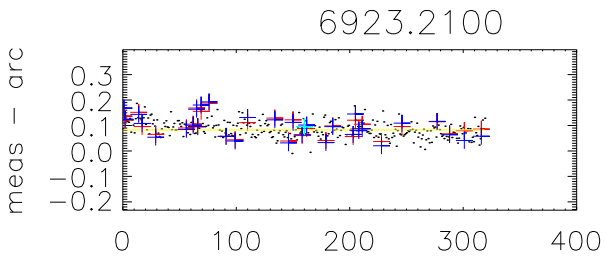

PLATE=2965 MJD=54594 Extraction chi^2 for sdR−r1−00052645.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

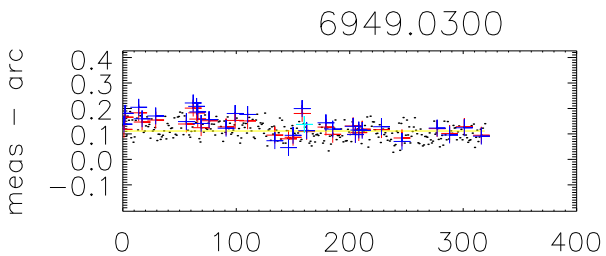

6300.3040
off: 0.01
sig: 0.005
6363.7760
off: 0.09
sig: 0.011
6553.6100
off: 0.09
sig: 0.010
6923.2100
off: 0.10
sig: 0.007
6949.0300
off: 0.14
sig: 0.006
7571.7500
off: 0.14
sig: 0.005
7794.1200
off: 0.03
sig: 0.003
7821.5100
off: 0.08
sig: 0.003
8399.1600
off: 0.10
sig: 0.003
8430.1700
off: 0.10
sig: 0.002
8885.8300
off: 0.08
sig: 0.003
8919.6100
off: 0.08
sig: 0.002

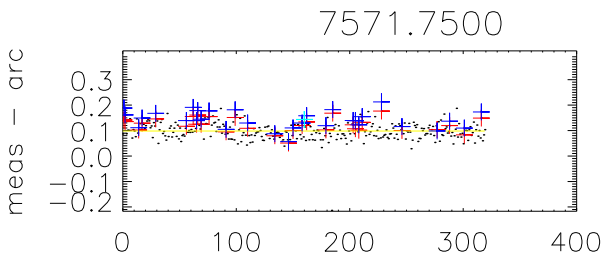

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

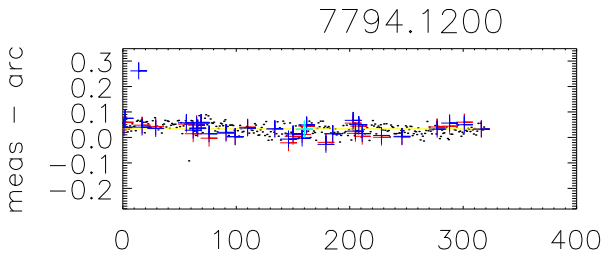

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

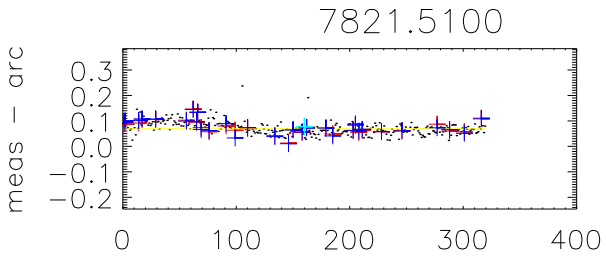

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

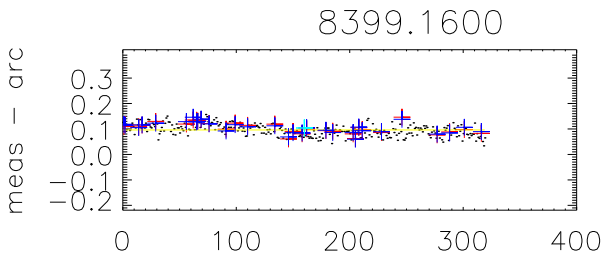

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

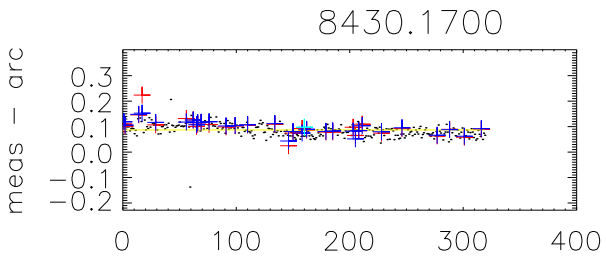

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

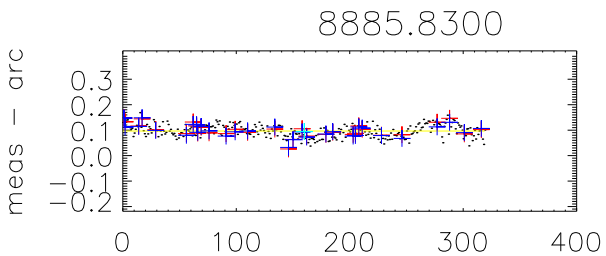

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

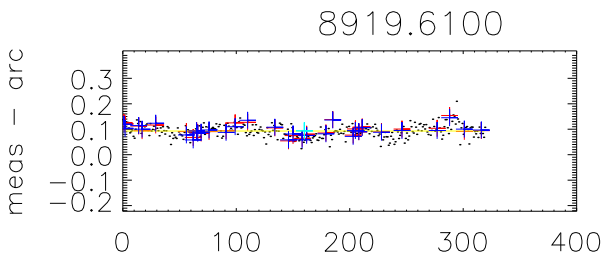

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

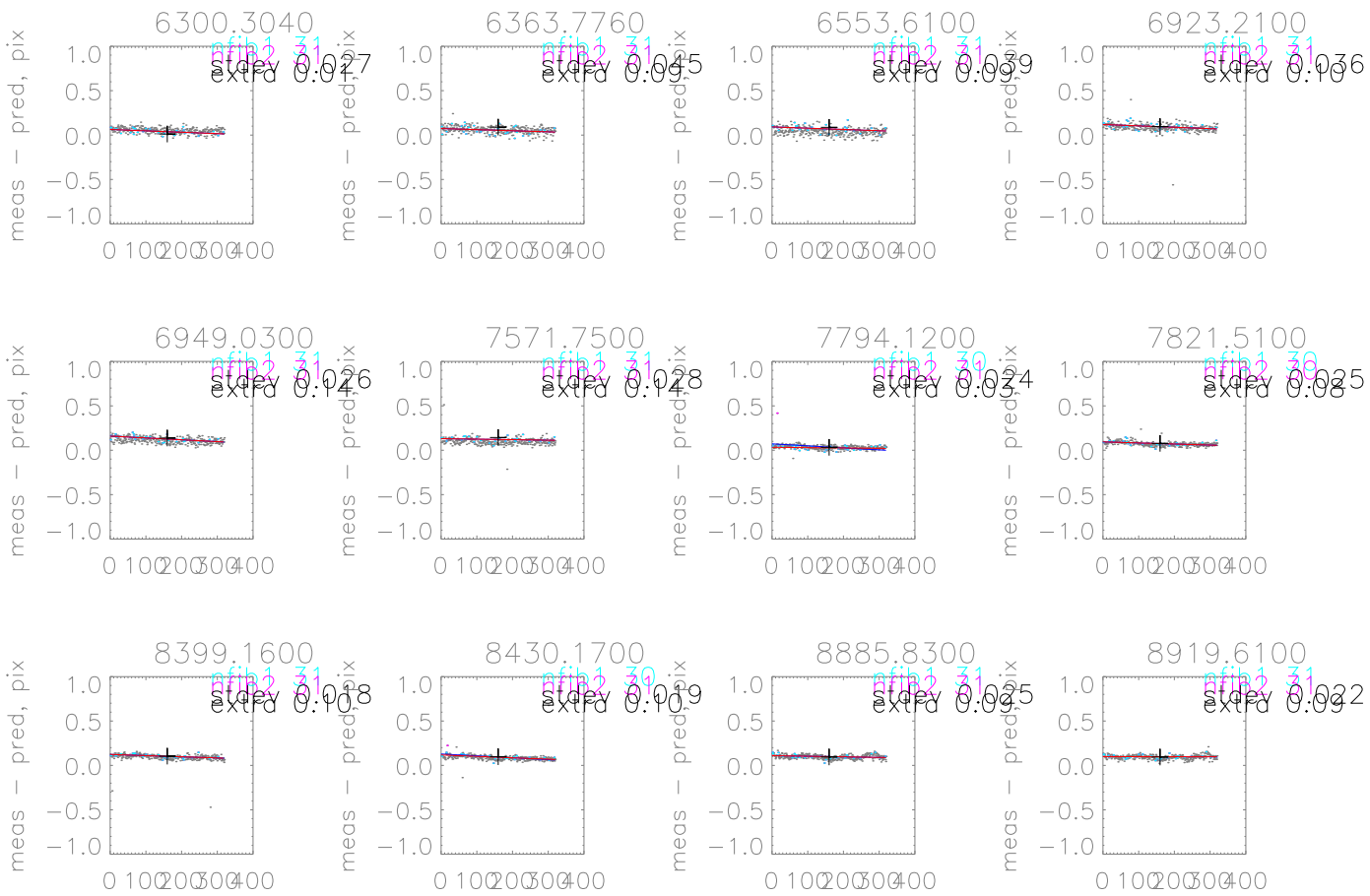

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

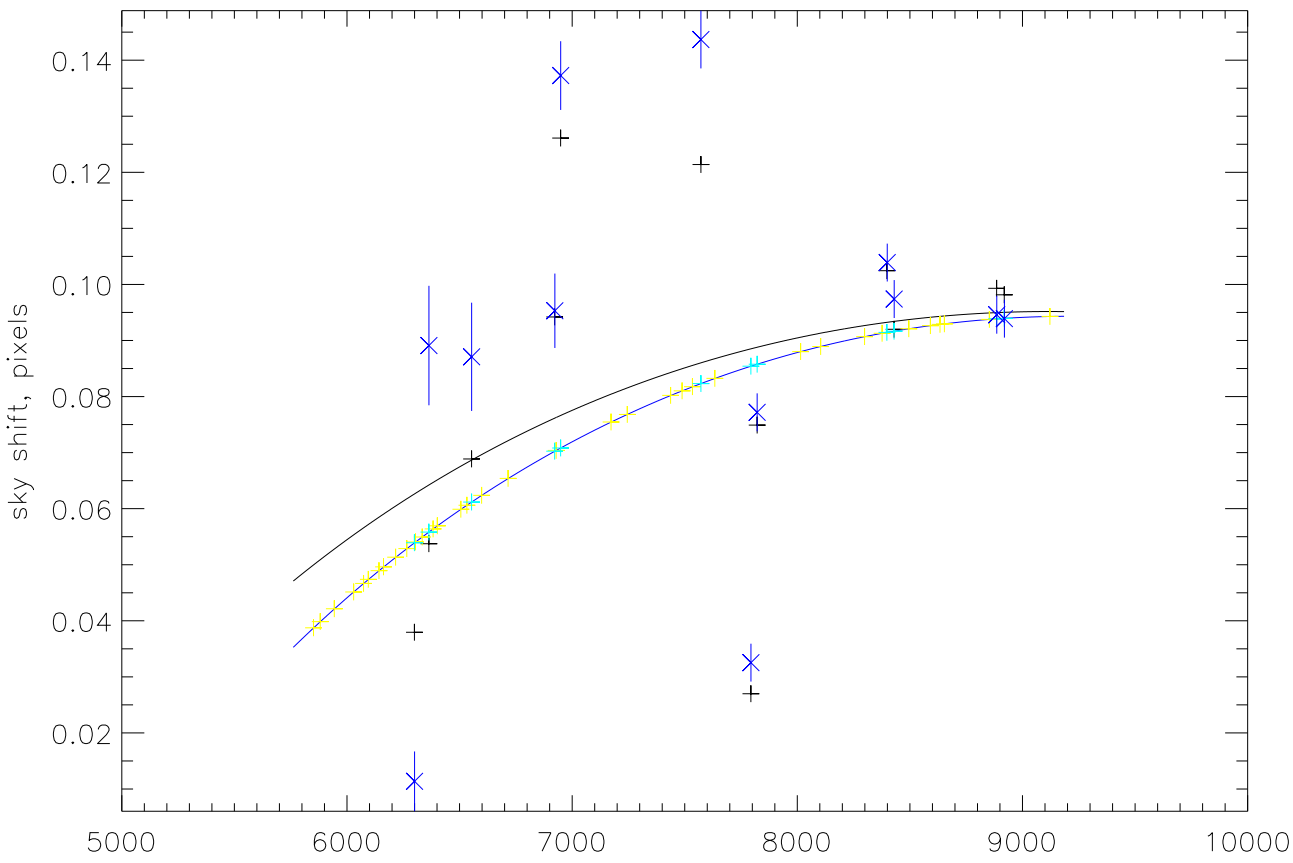

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

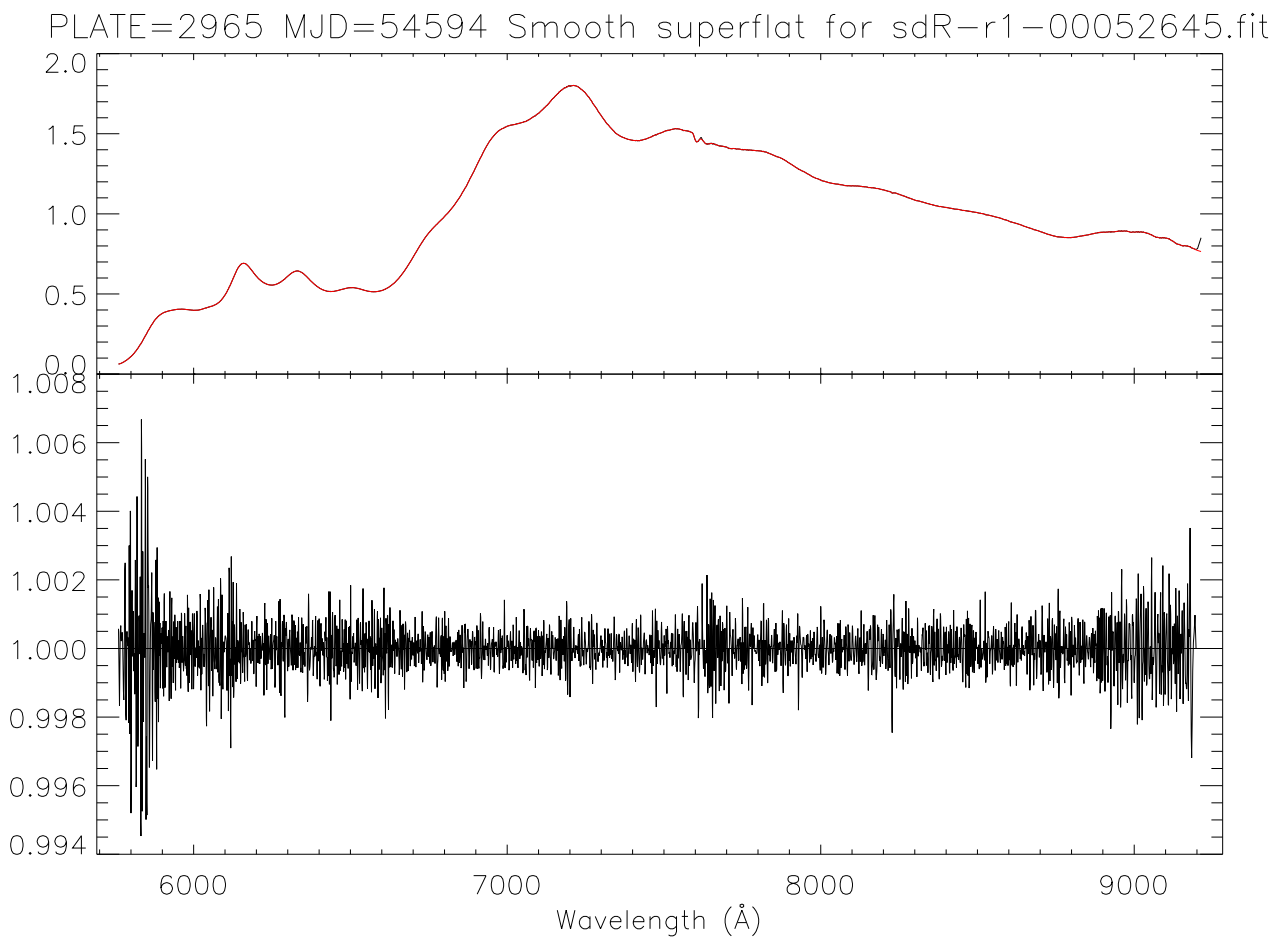

8885.8300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

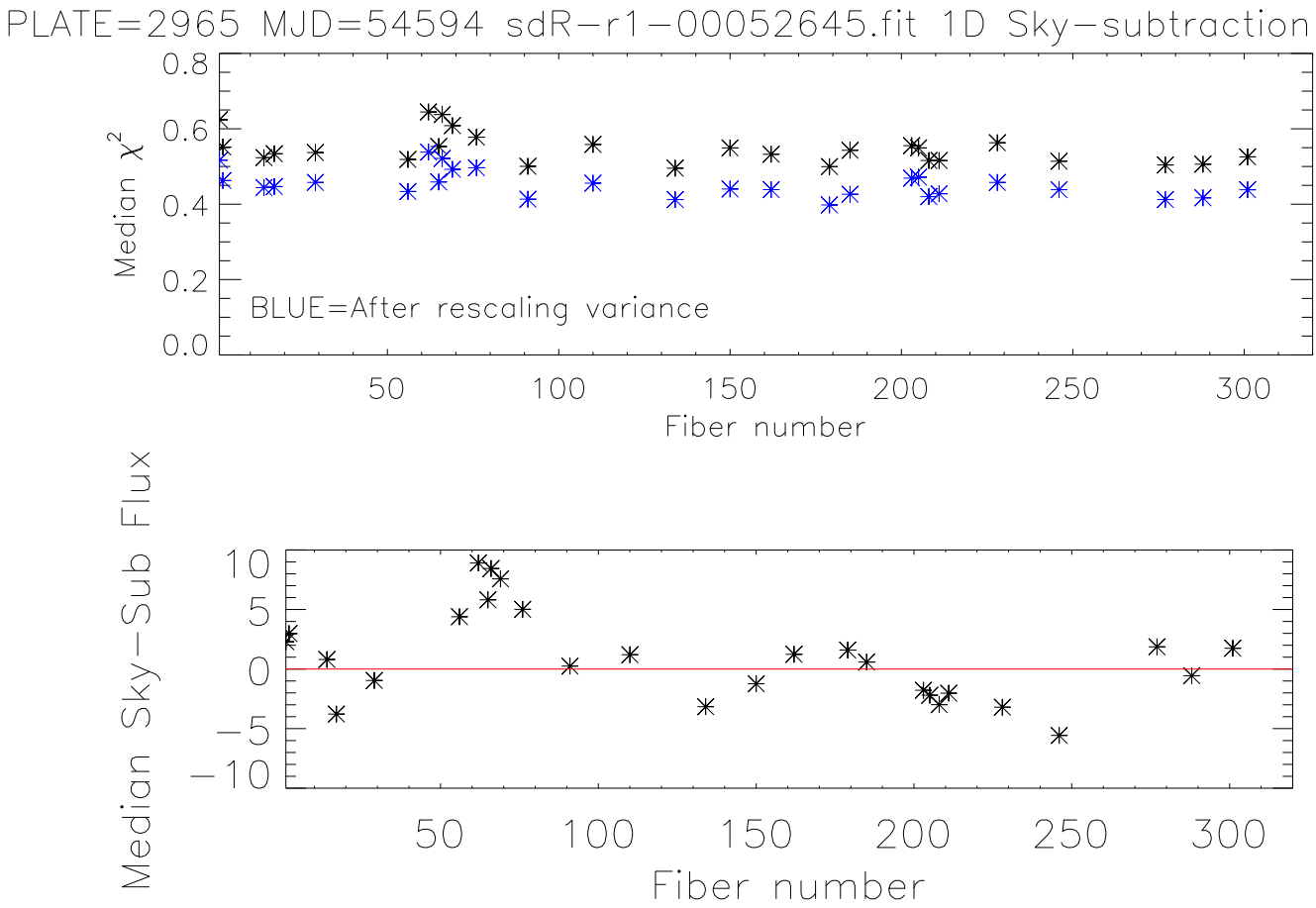

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

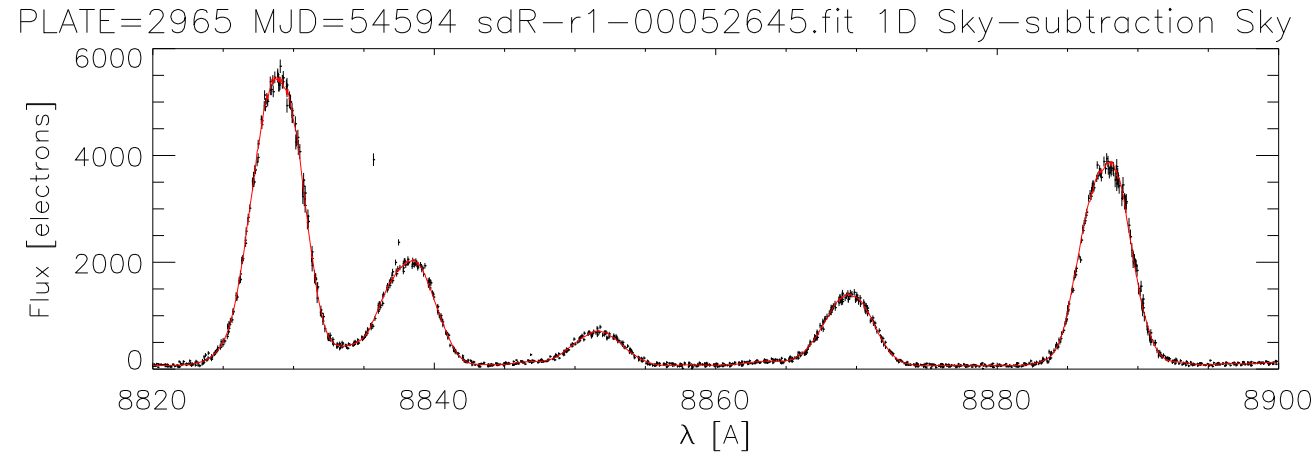

6300.3040
mfib1 31
mfib2 31
stdev 0.027
extra 0.01
6363.7760
mfib1 31
mfib2 31
stdev 0.045
extra 0.09
6553.6100
mfib1 31
mfib2 31
stdev 0.039
extra 0.09
6923.2100
mfib1 31
mfib2 31
stdev 0.036
extra 0.10
6949.0300
mfib1 31
mfib2 31
stdev 0.026
extra 0.14
7571.7500
mfib1 31
mfib2 31
stdev 0.028
extra 0.14
7794.1200
mfib1 30
mfib2 30
stdev 0.024
extra 0.03
7821.5100
mfib1 30
mfib2 30
stdev 0.025
extra 0.08
8399.1600
mfib1 31
mfib2 31
stdev 0.018
extra 0.10
8430.1700
mfib1 30
mfib2 30
stdev 0.019
extra 0.10
8885.8300
mfib1 31
mfib2 31
stdev 0.025
extra 0.09
8919.6100
mfib1 31
mfib2 31
stdev 0.022
extra 0.09
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

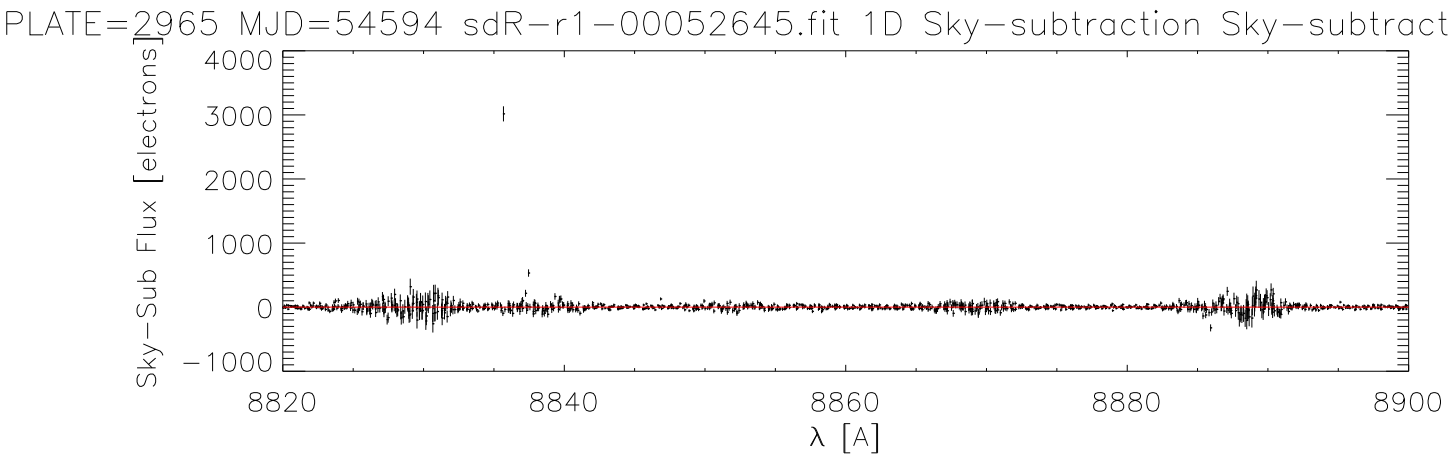

sky shift, pixels
0.14
0.12
0.10
0.08
0.06
0.04
0.02
5000
6000
7000
8000
9000
10000

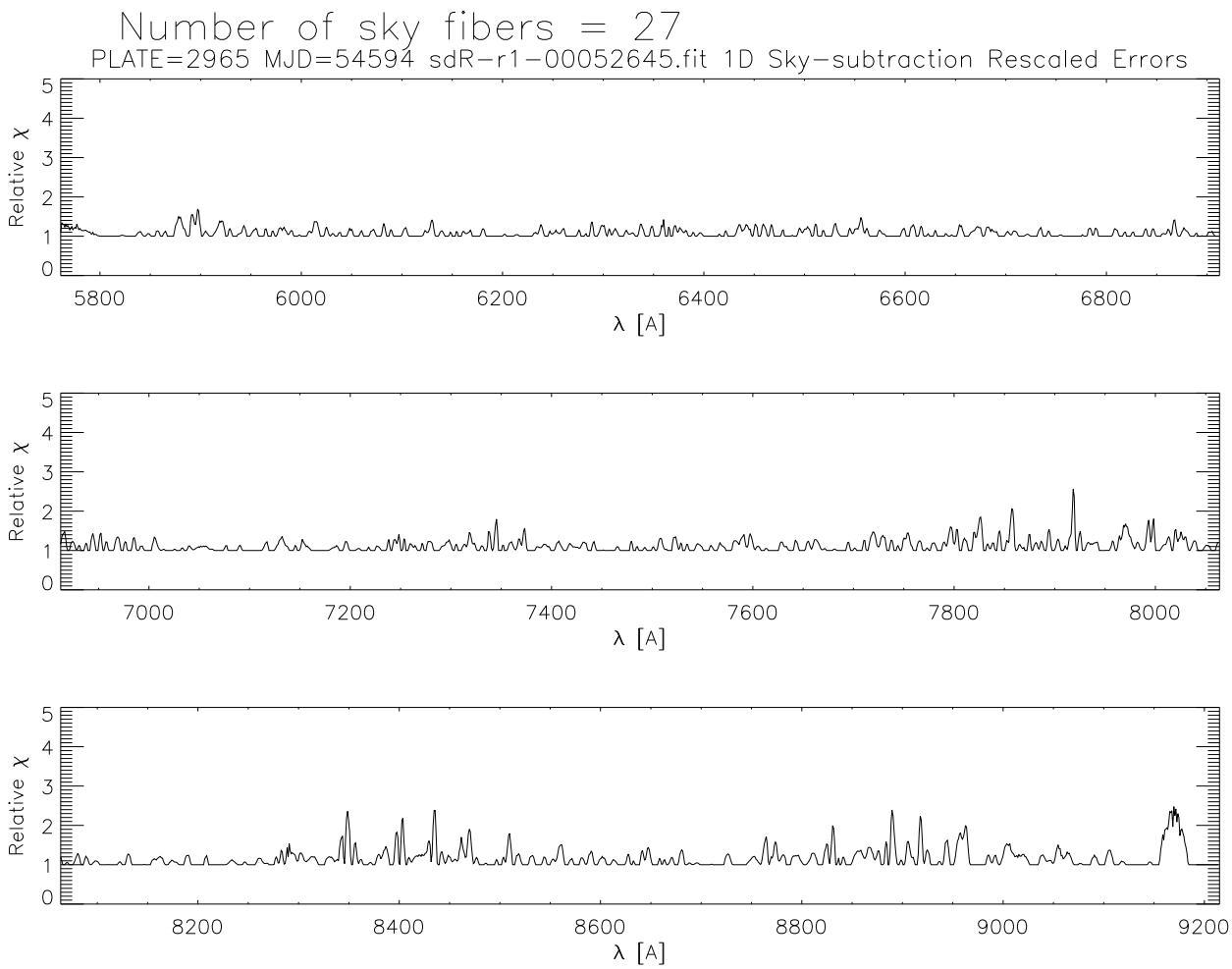
es= 0.0000

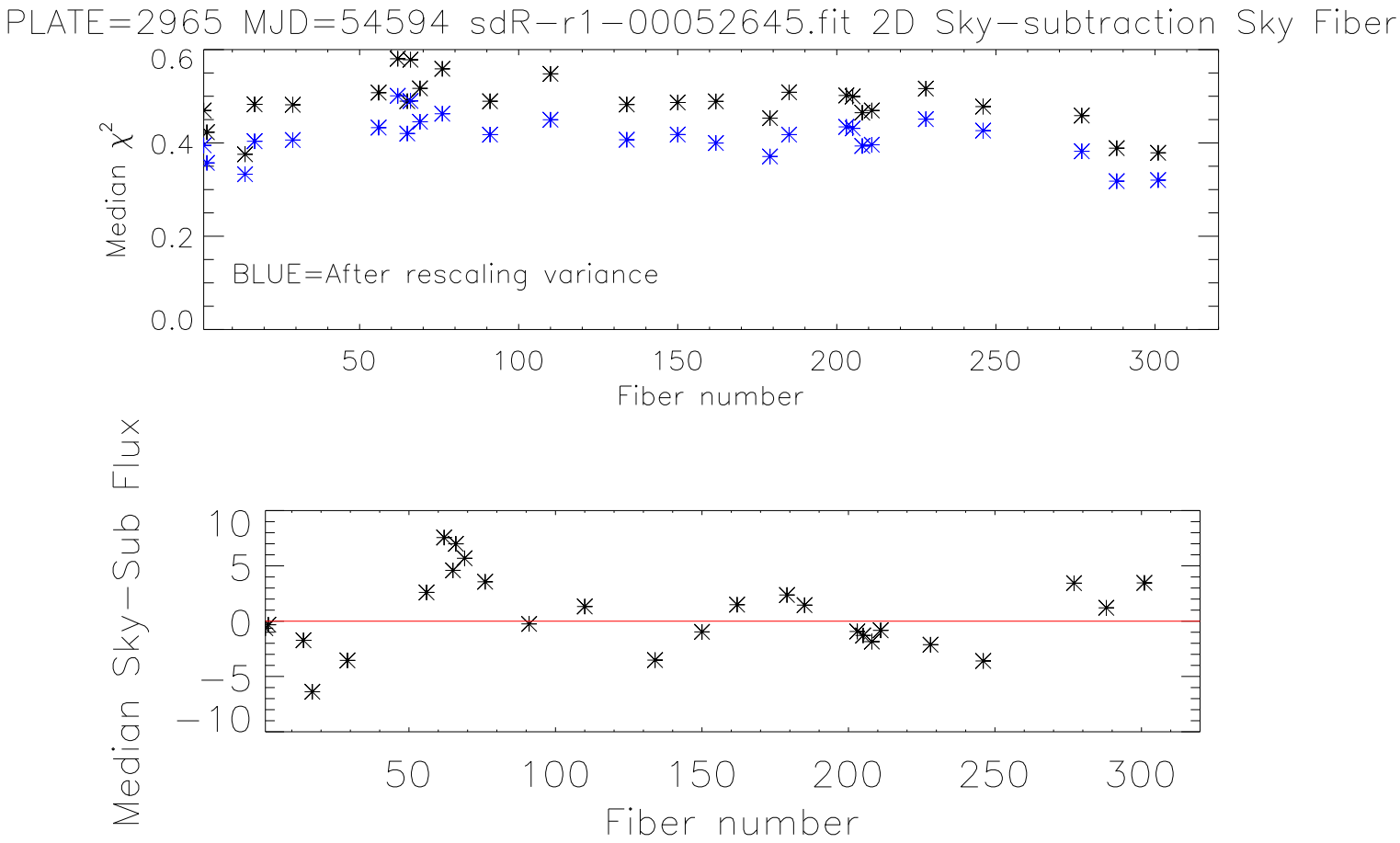

PLATE=2965 MJD=54594 Smooth superflat for sdR-r1-00052645.fit
2.0
1.5
1.0
0.5
0.0
1.008
1.006
1.004
1.002
1.000
0.998
0.996
0.994
6000
7000
8000
9000
Wavelength (Å)

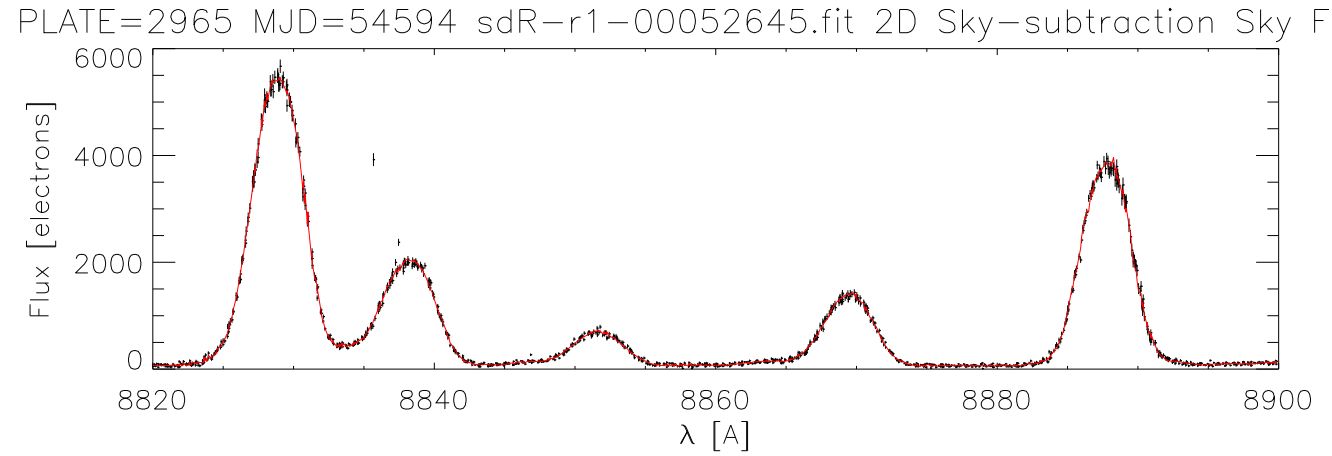

PLATE=2965 MJD=54594 sdR-r1-00052645.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

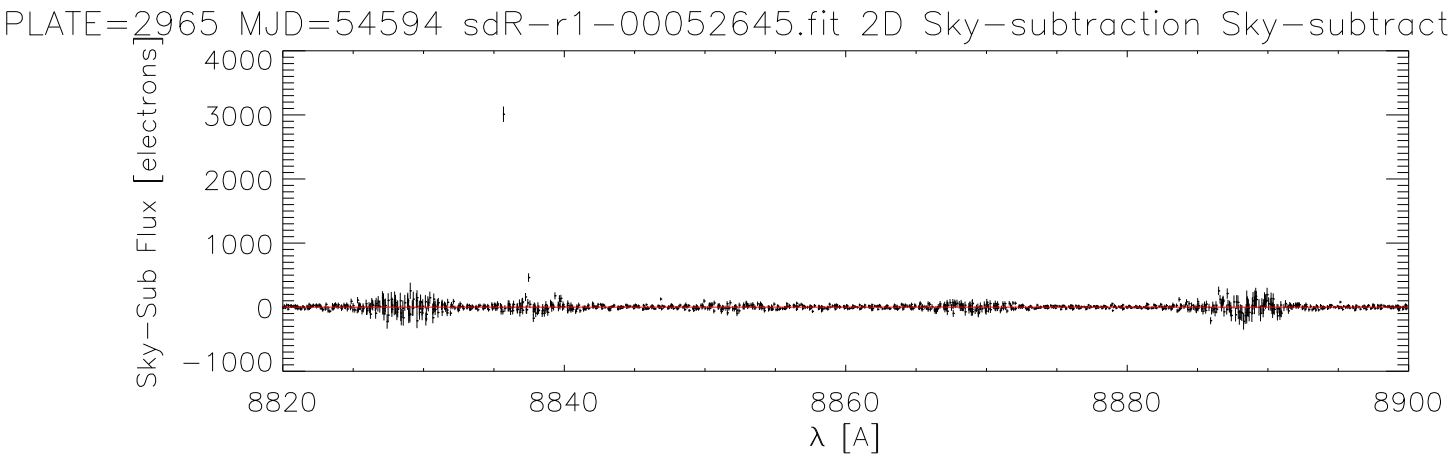

PLATE=2965 MJD=54594 sdR-r1-00052645.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

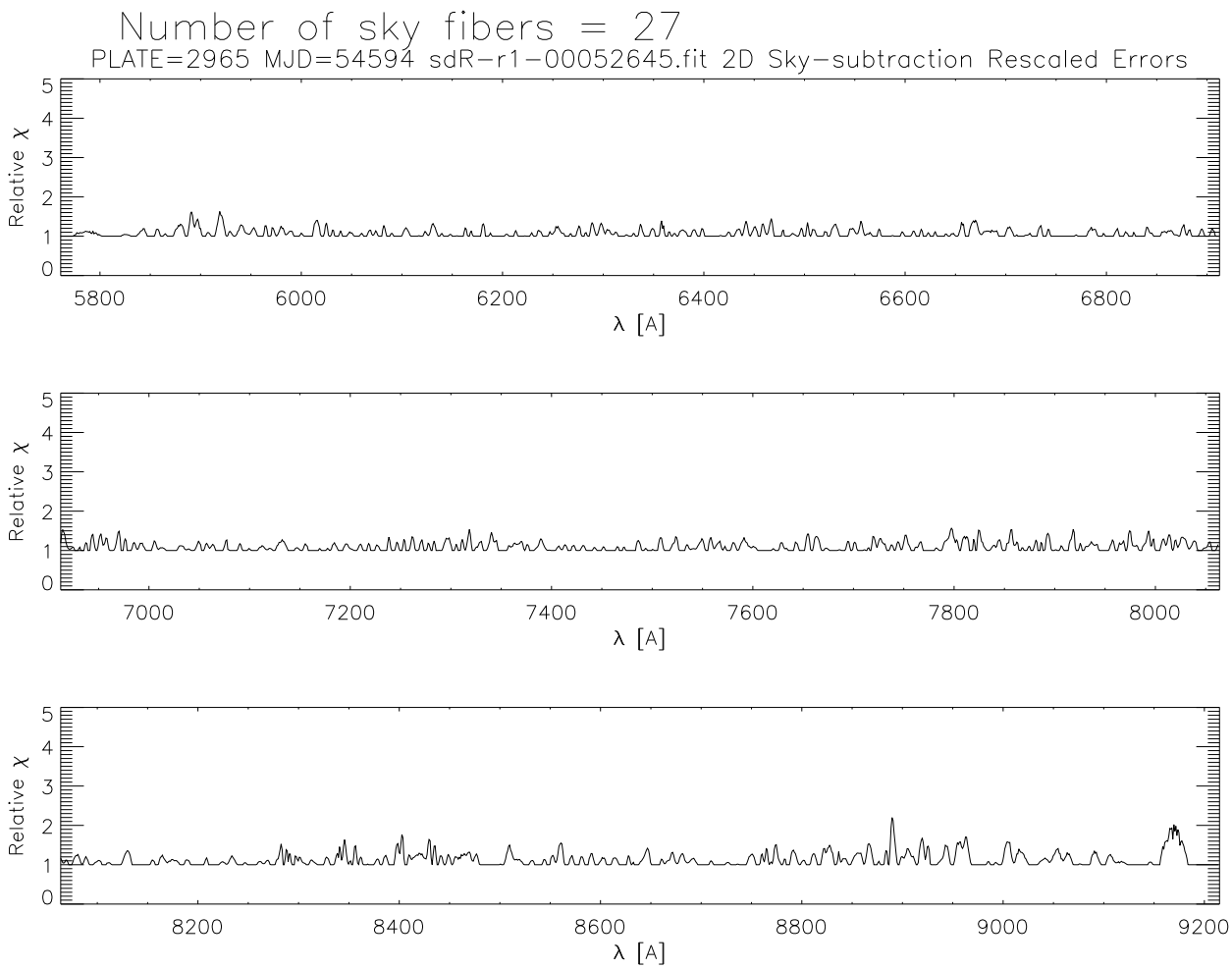

PLATE=2965 MJD=54594 sdR-r1-00052645.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

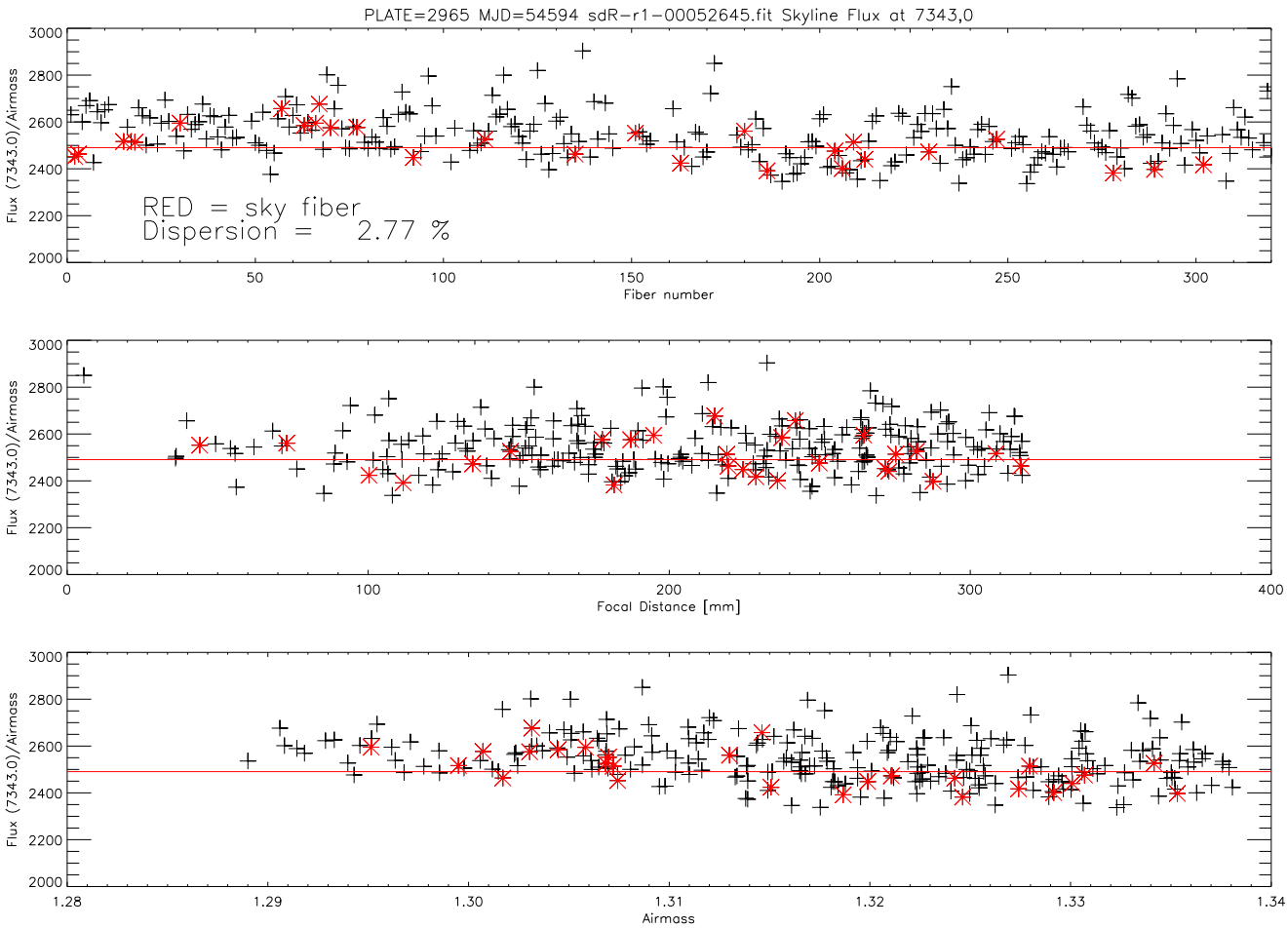

Number of sky fibers = 27
PLATE=2965 MJD=54594 sdR-r1-00052645.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

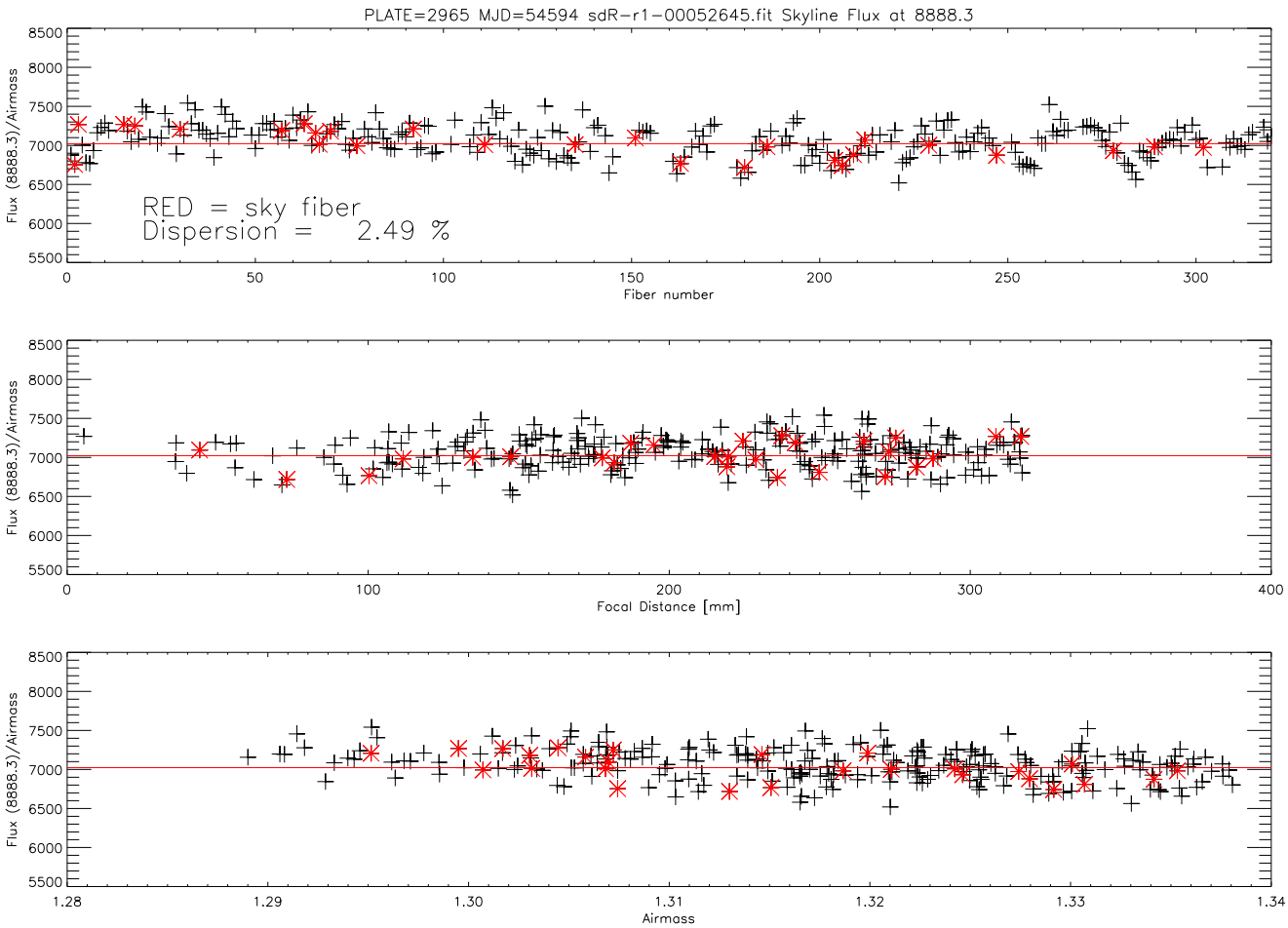

PLATE=2965 MJD=54594 sdR-r1-00052645.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
50
100
150
200
250
300
Fiber number

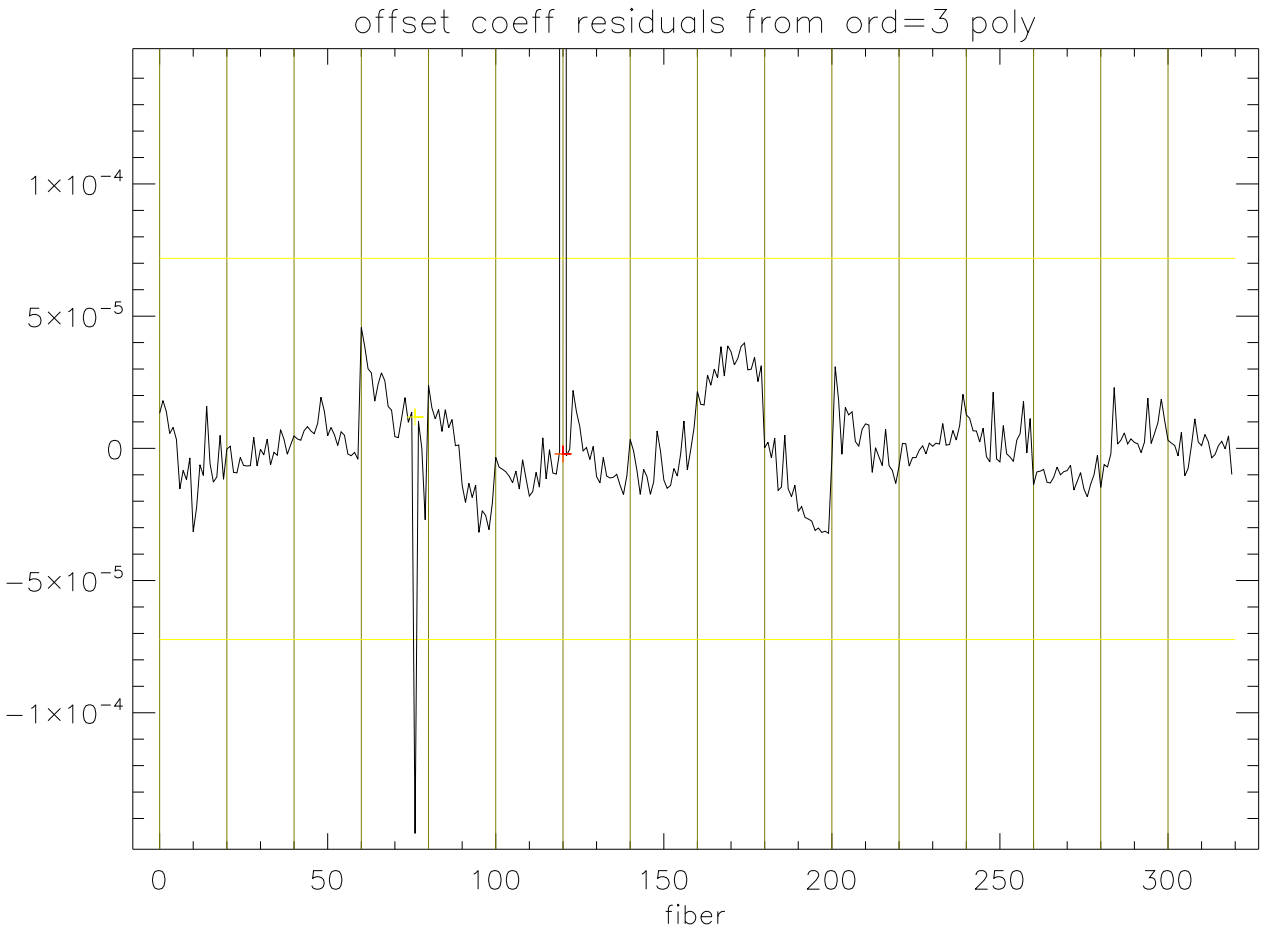

PLATE=2965 MJD=54594 sdR-r1-00052645.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

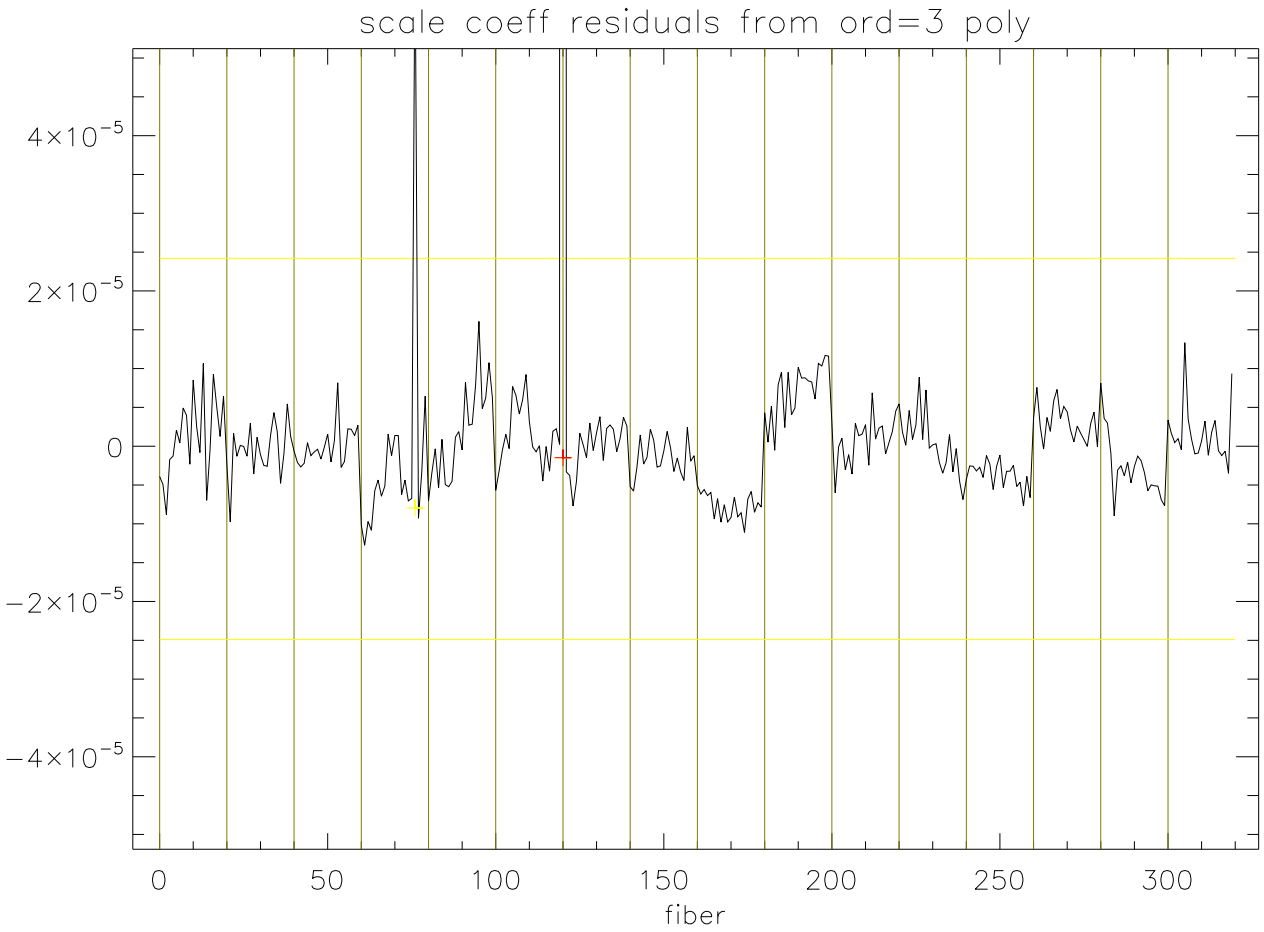

PLATE=2965 MJD=54594 sdR-r1-00052645.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

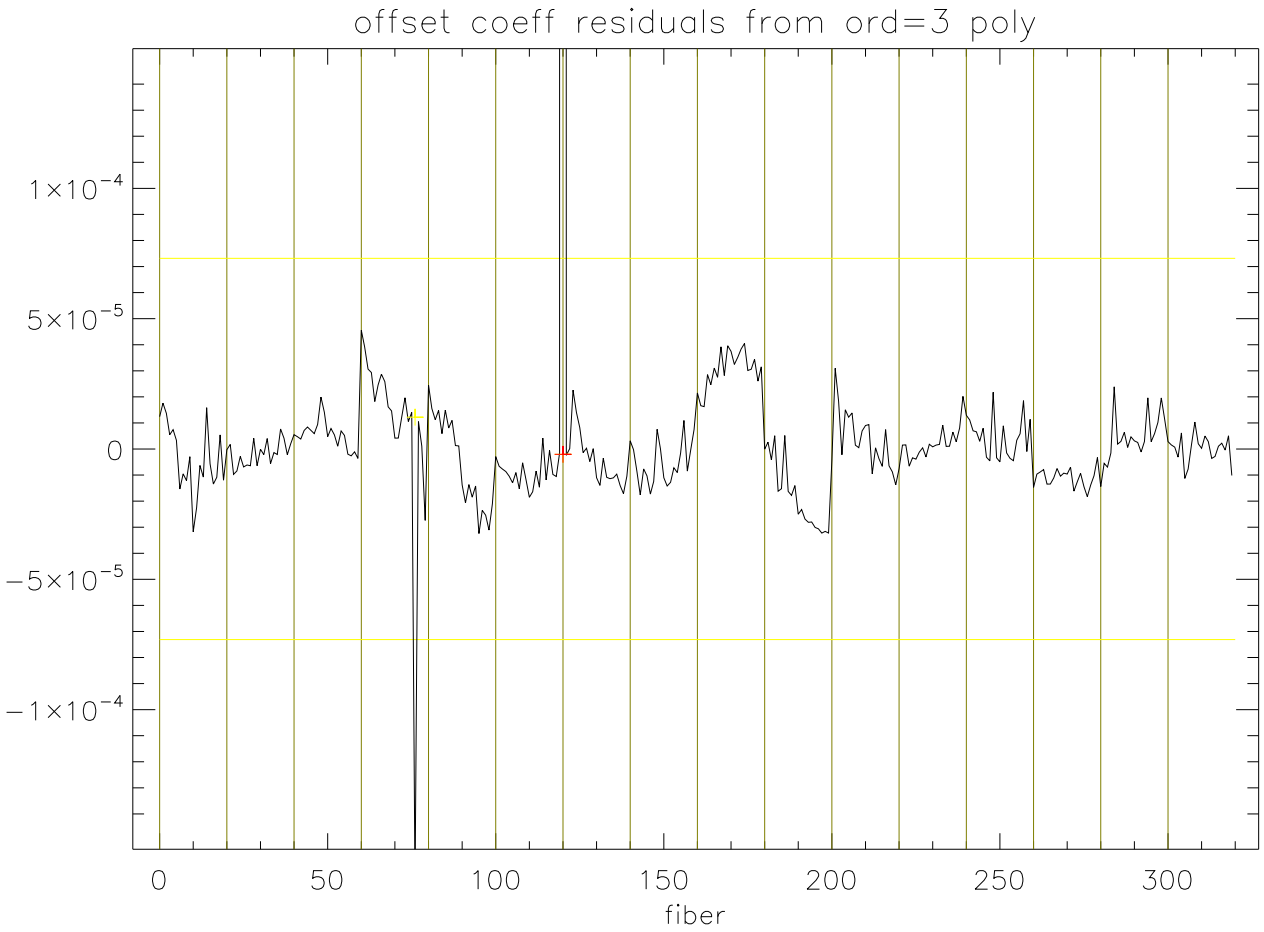

Number of sky fibers = 27
PLATE=2965 MJD=54594 sdR-r1-00052645.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

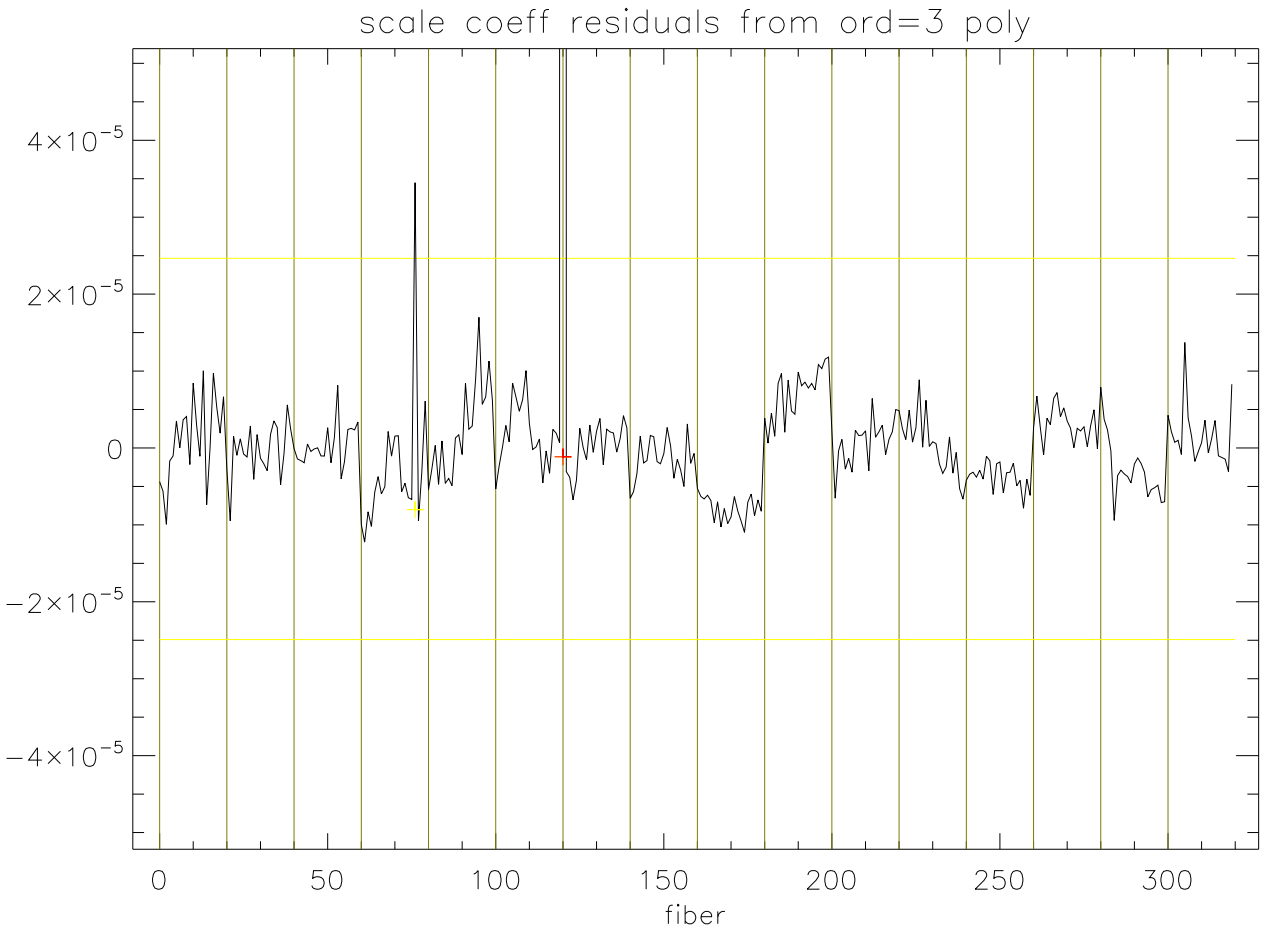

PLATE=2965 MJD=54594 sdR-r1-00052645.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.77 %
Fiber number
Focal Distance [mm]
Airmass

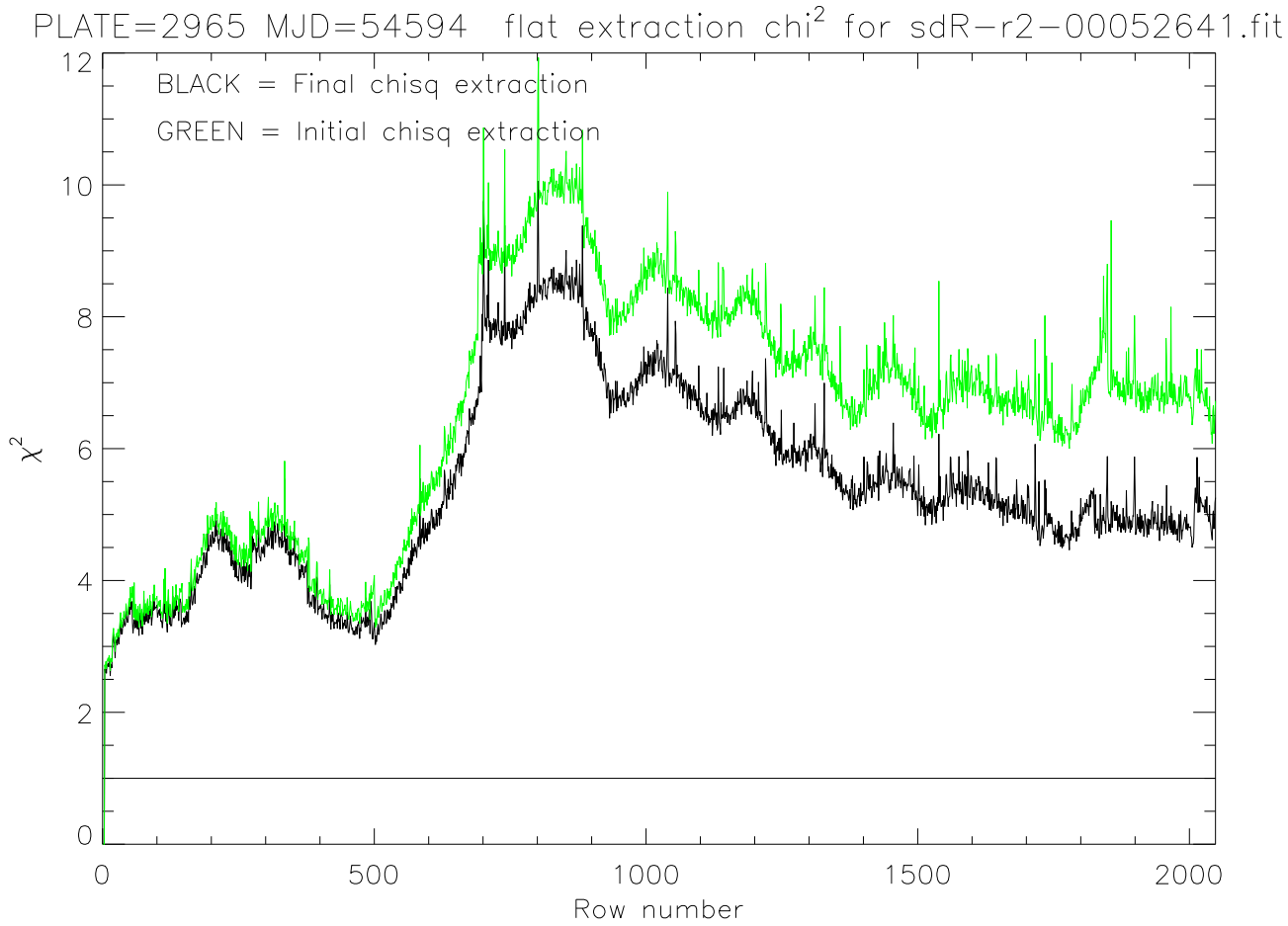

PLATE=2965 MJD=54594 sdR-r1-00052645.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.49 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

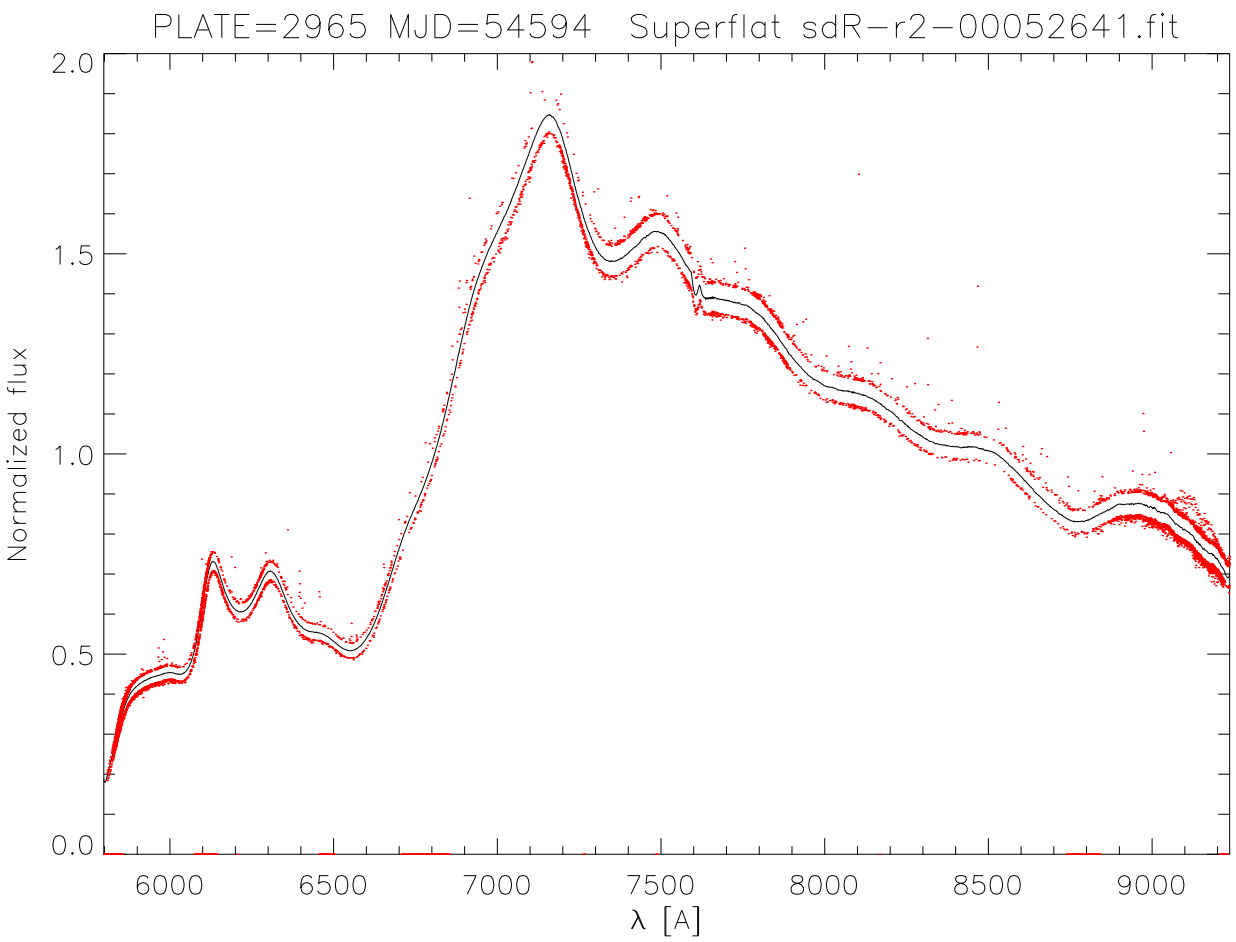

offset coeff residuals from ord=3 poly
1×10⁻⁴
5×10⁻⁵
0
−5×10⁻⁵
−1×10⁻⁴
0
50
100
150
200
250
300
fiber

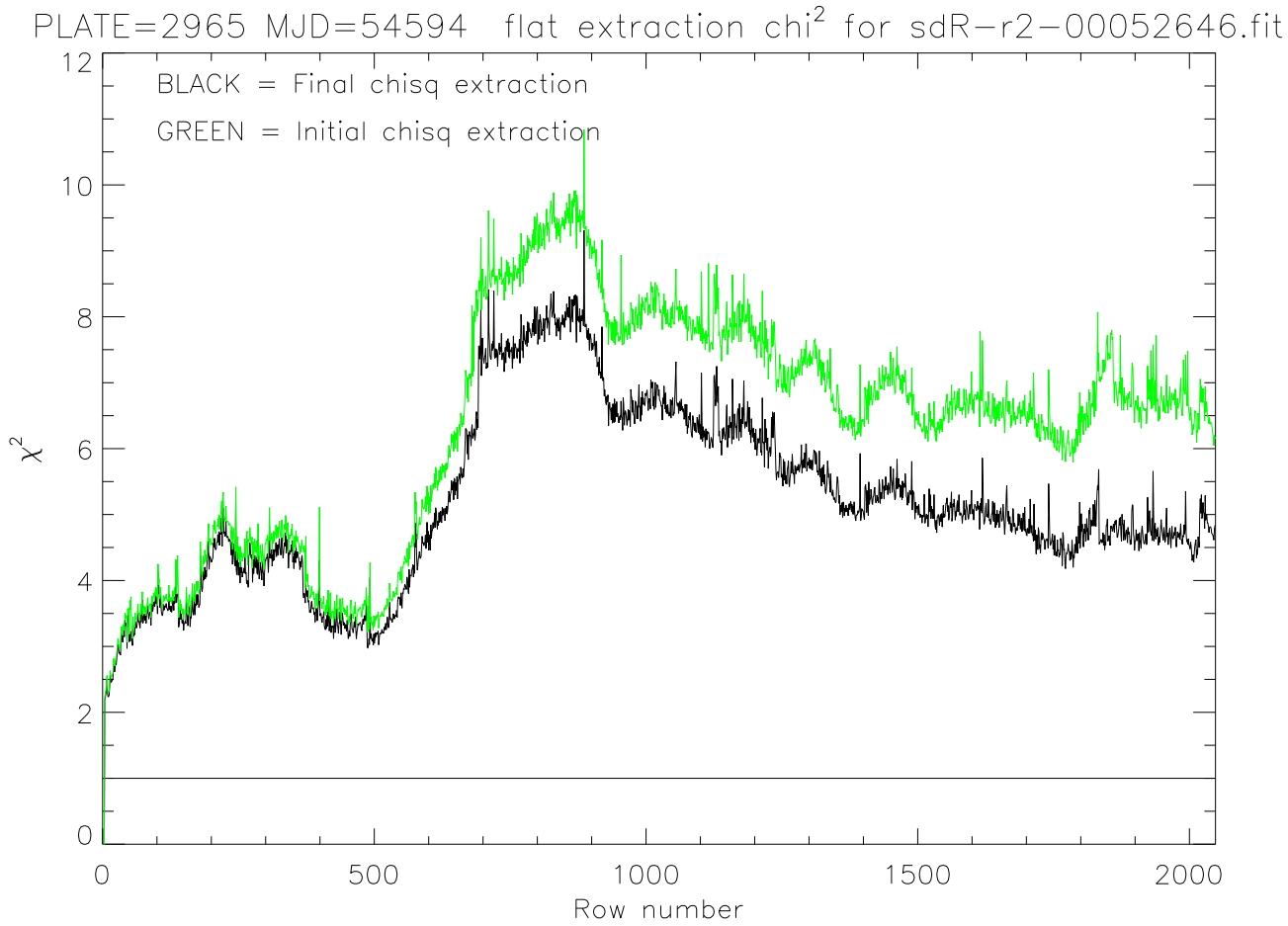

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

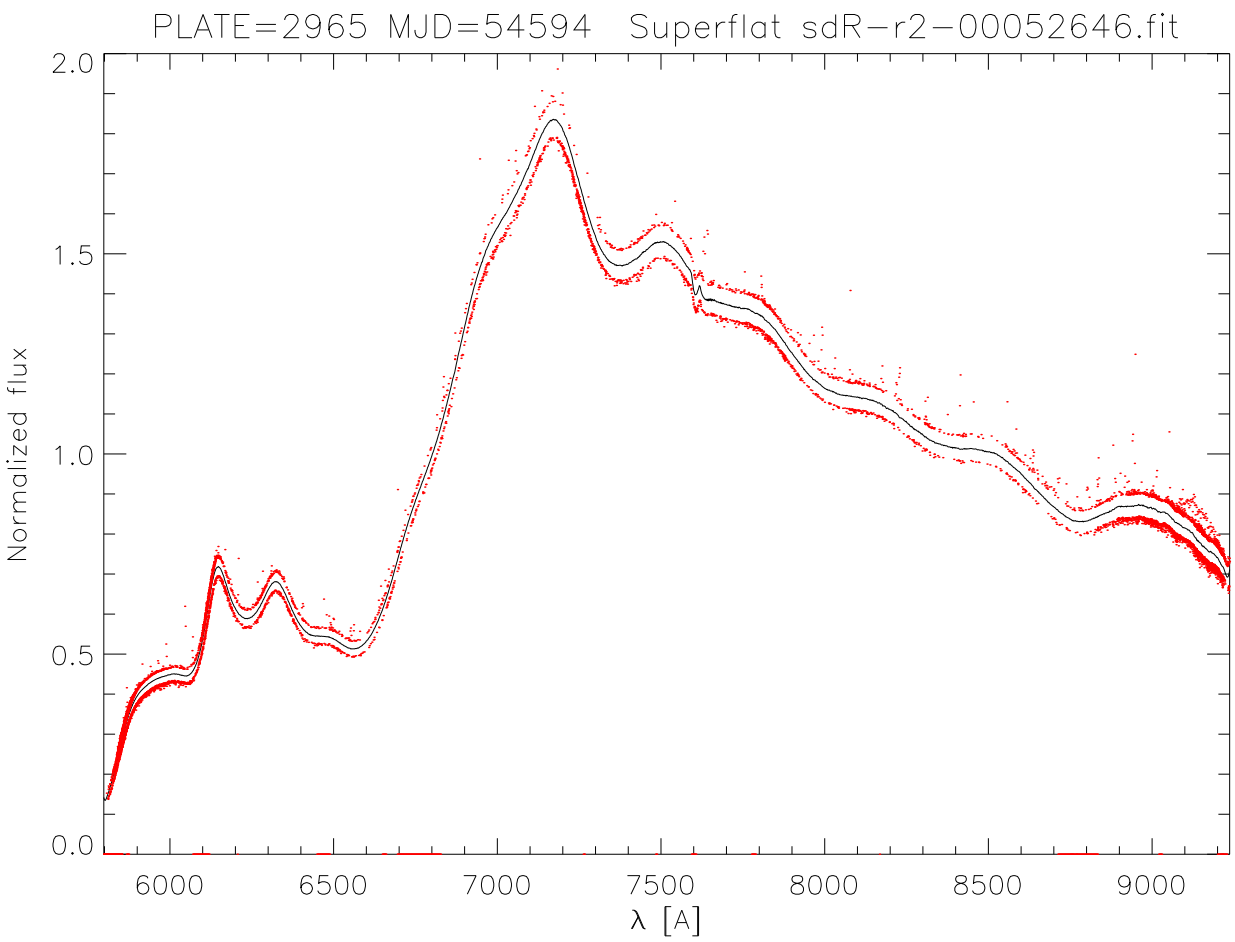

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

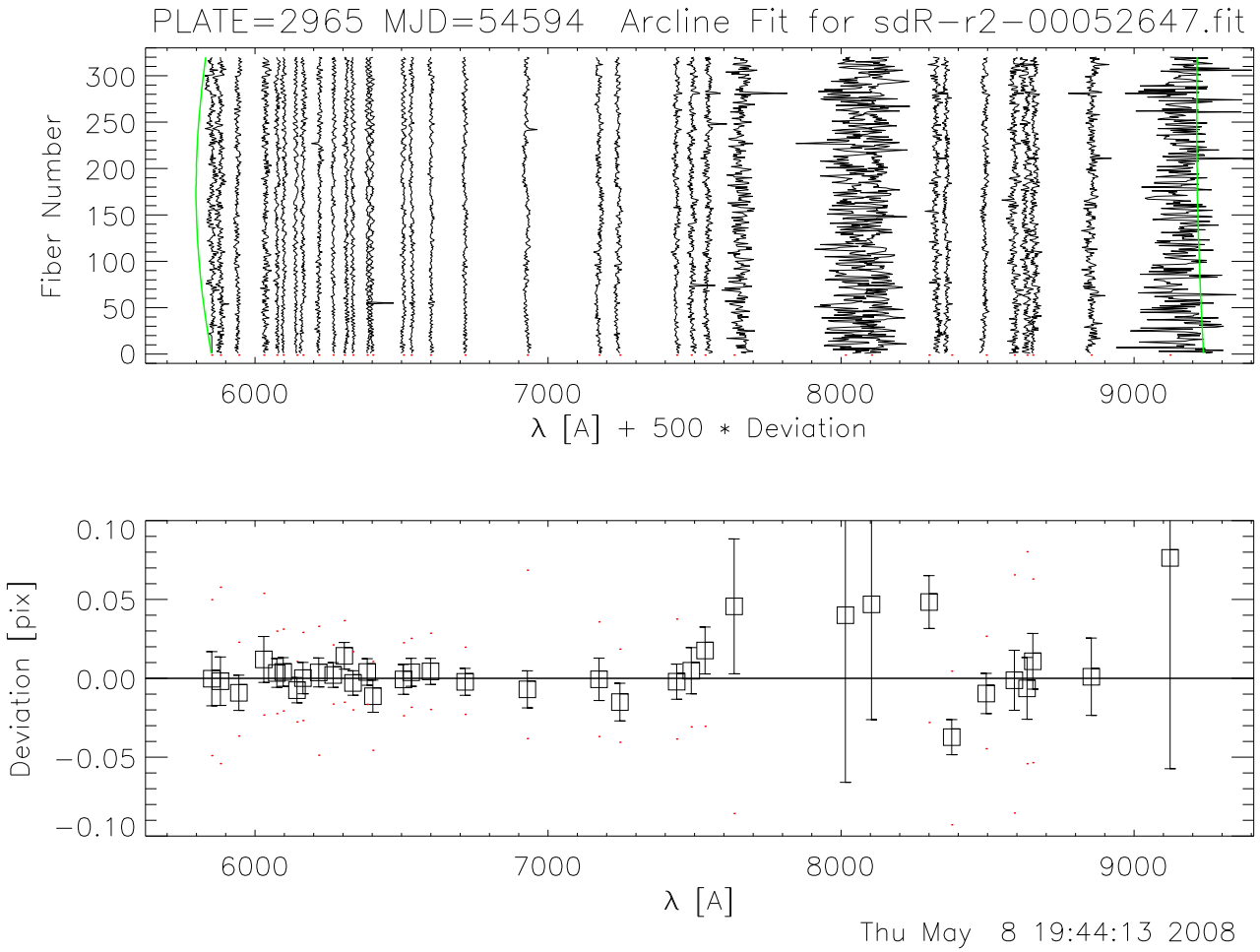

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

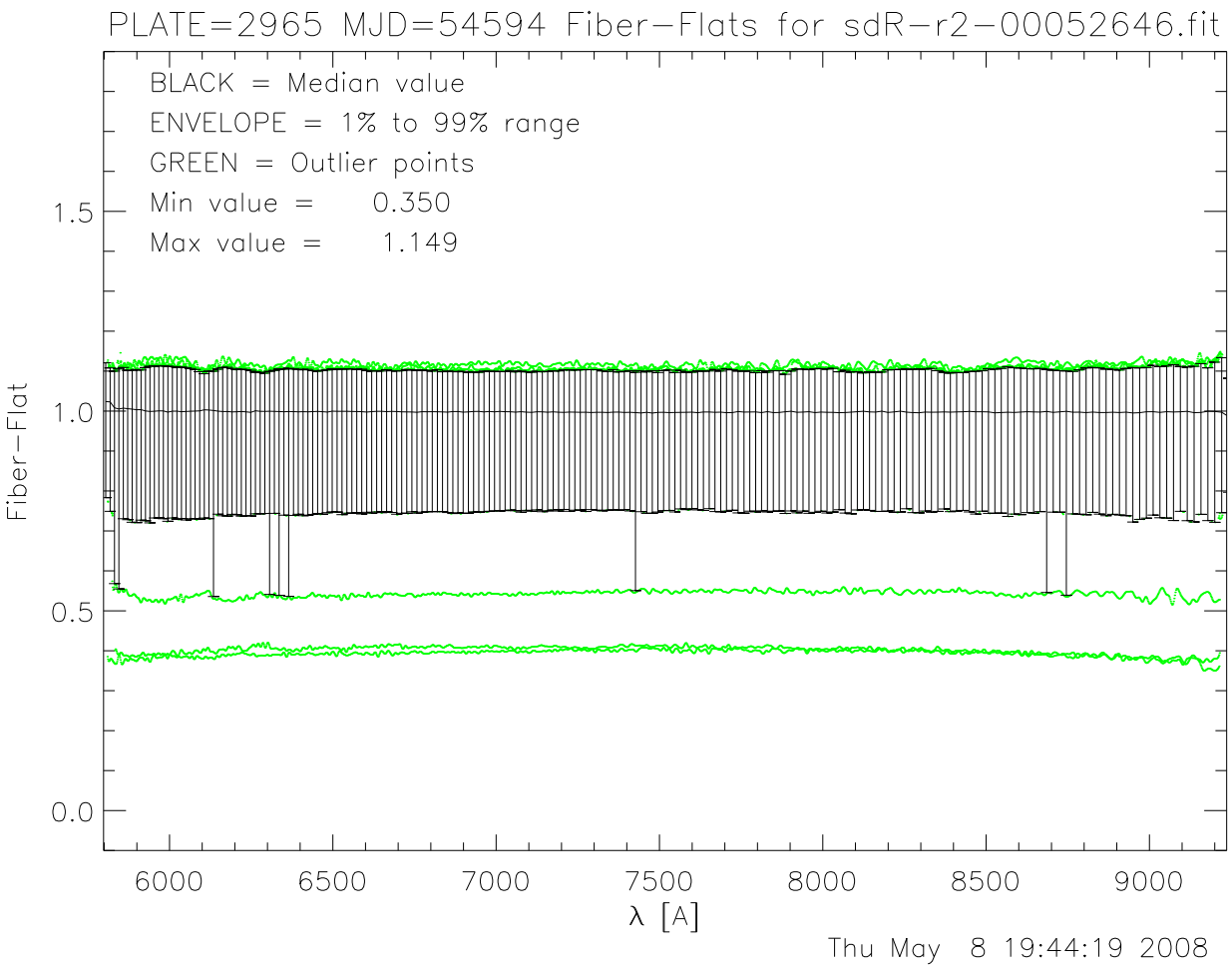

PLATE=2965 MJD=54594 flat extraction chi^2 for sdR−r2−00052641.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

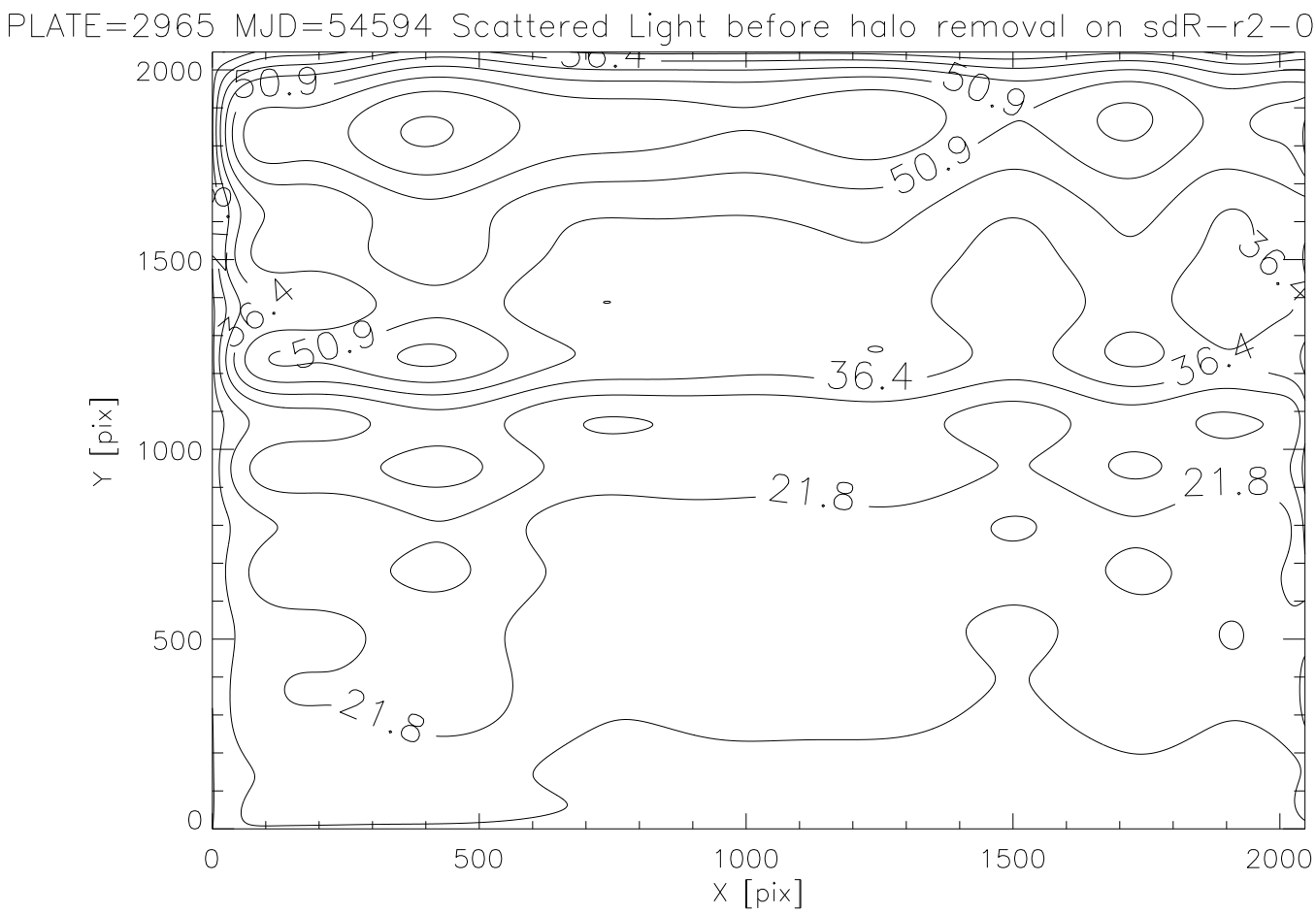

PLATE=2965 MJD=54594 Superflat sdR-r2-00052641.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

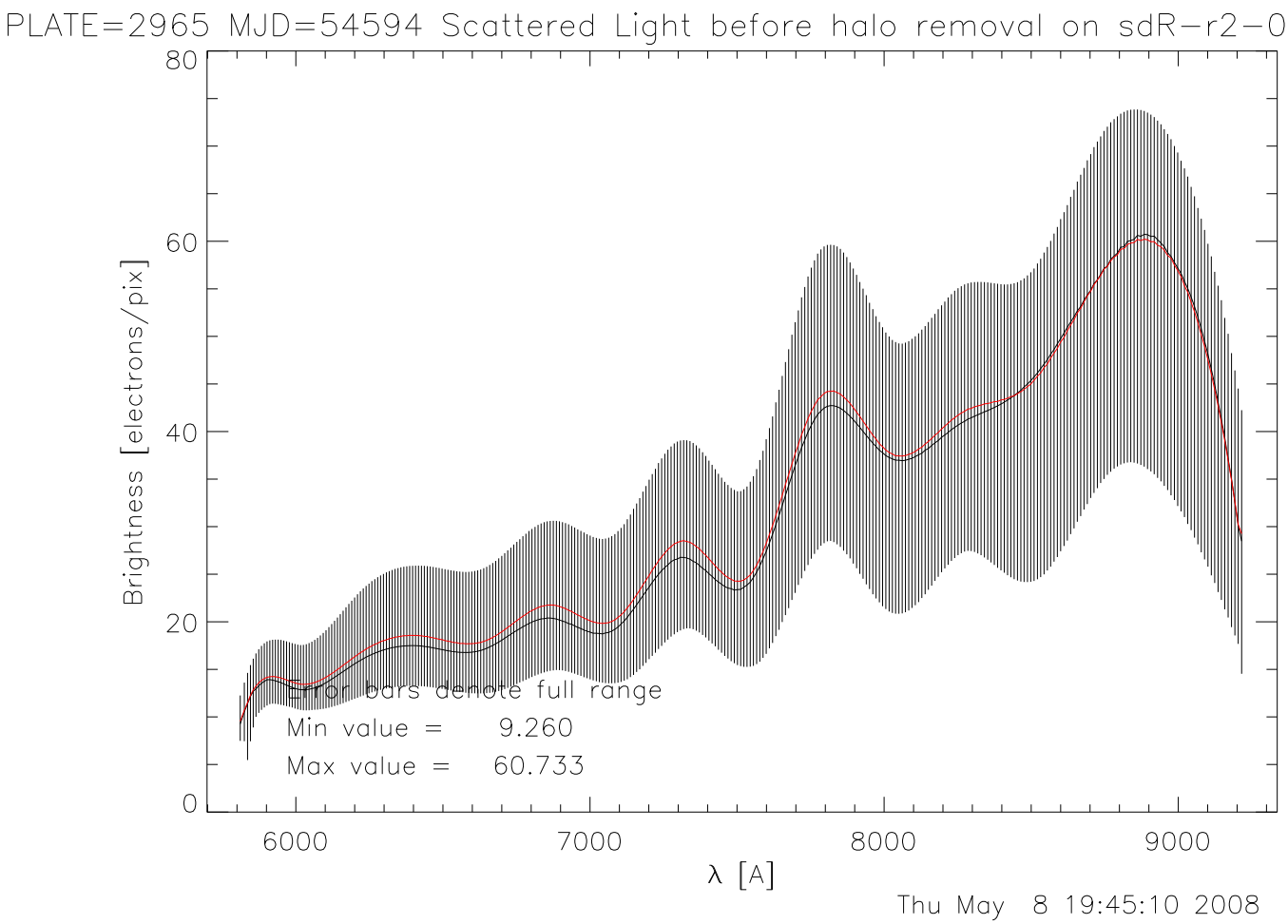

PLATE=2965 MJD=54594 flat extraction chi^2 for sdR−r2−00052646.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

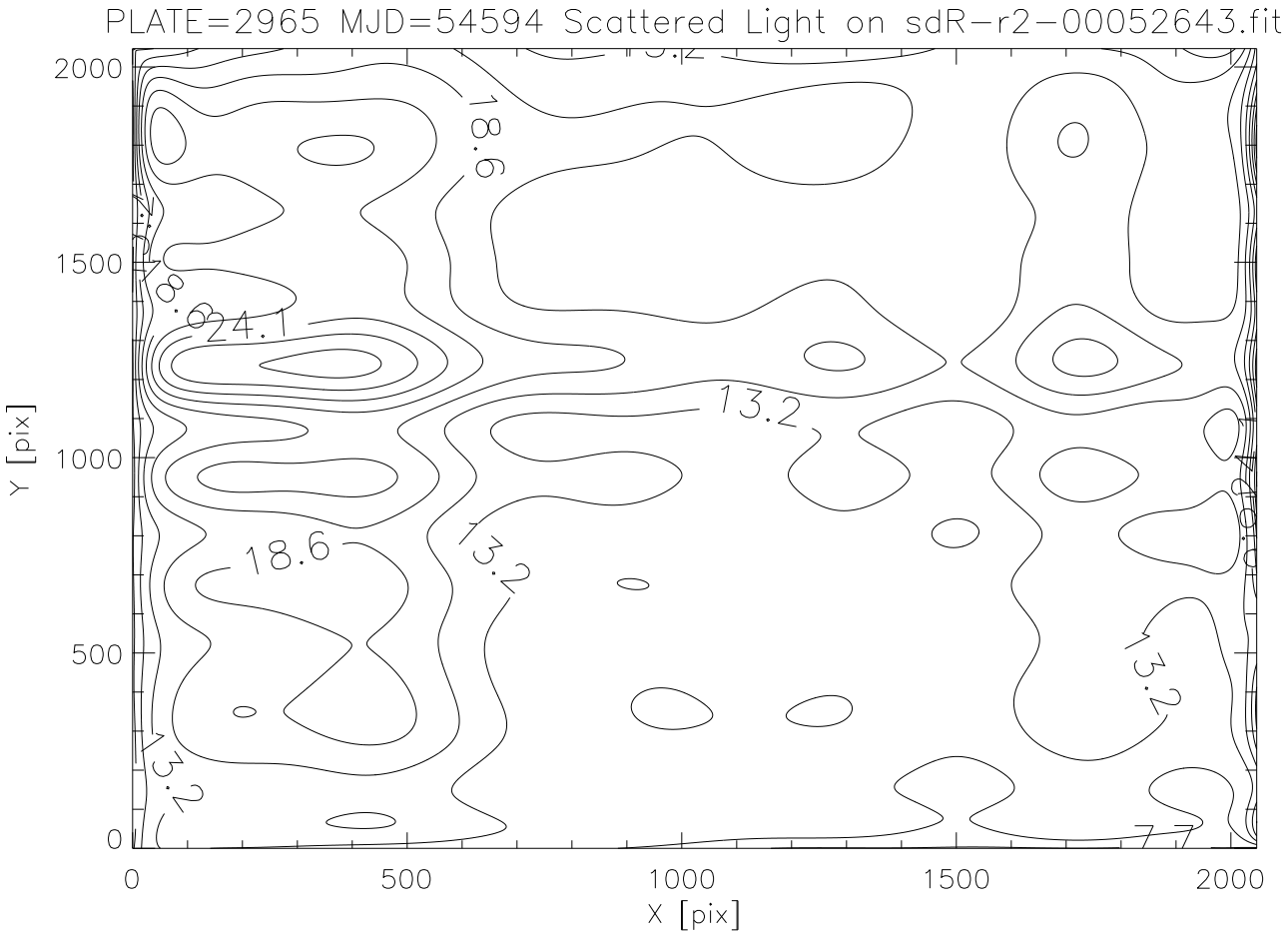

PLATE=2965 MJD=54594 Superflat sdR-r2-00052646.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

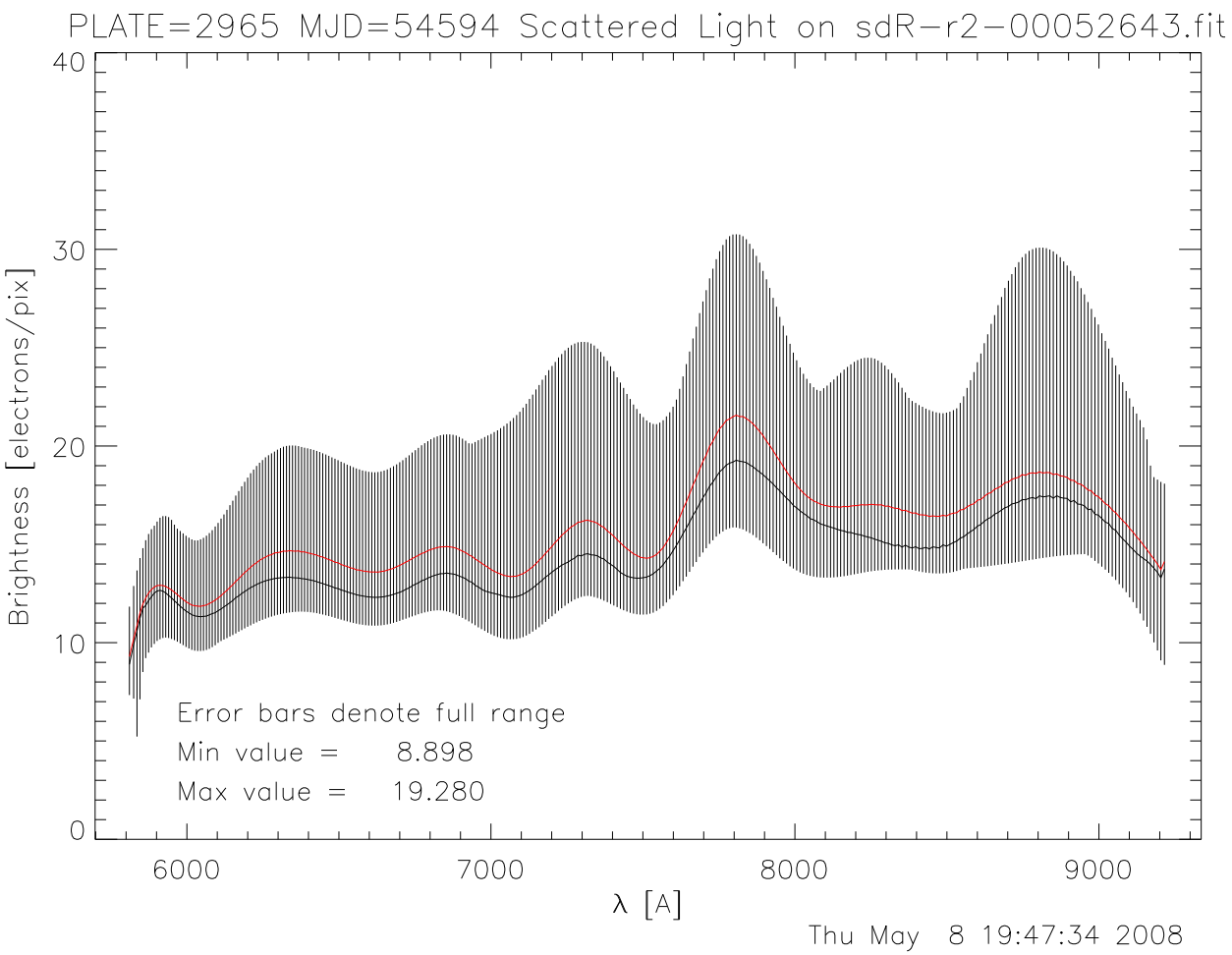

PLATE=2965 MJD=54594 Arcline Fit for sdR-r2-00052647.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Thu May 8 19:44:13 2008

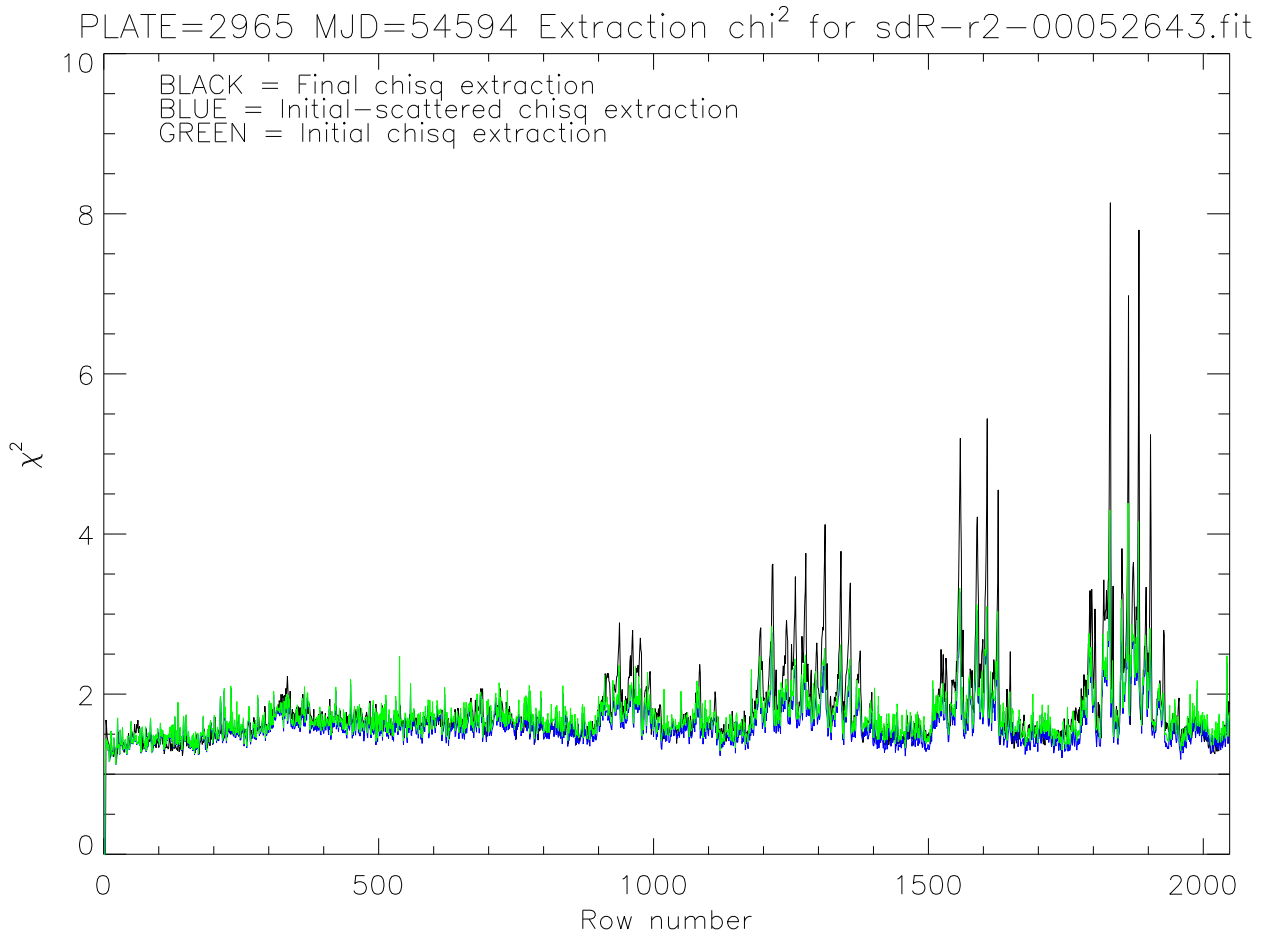

PLATE=2965 MJD=54594 Fiber−Flats for sdR−r2−00052646.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.350
Max value = 1.149
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Thu May 8 19:44:19 2008

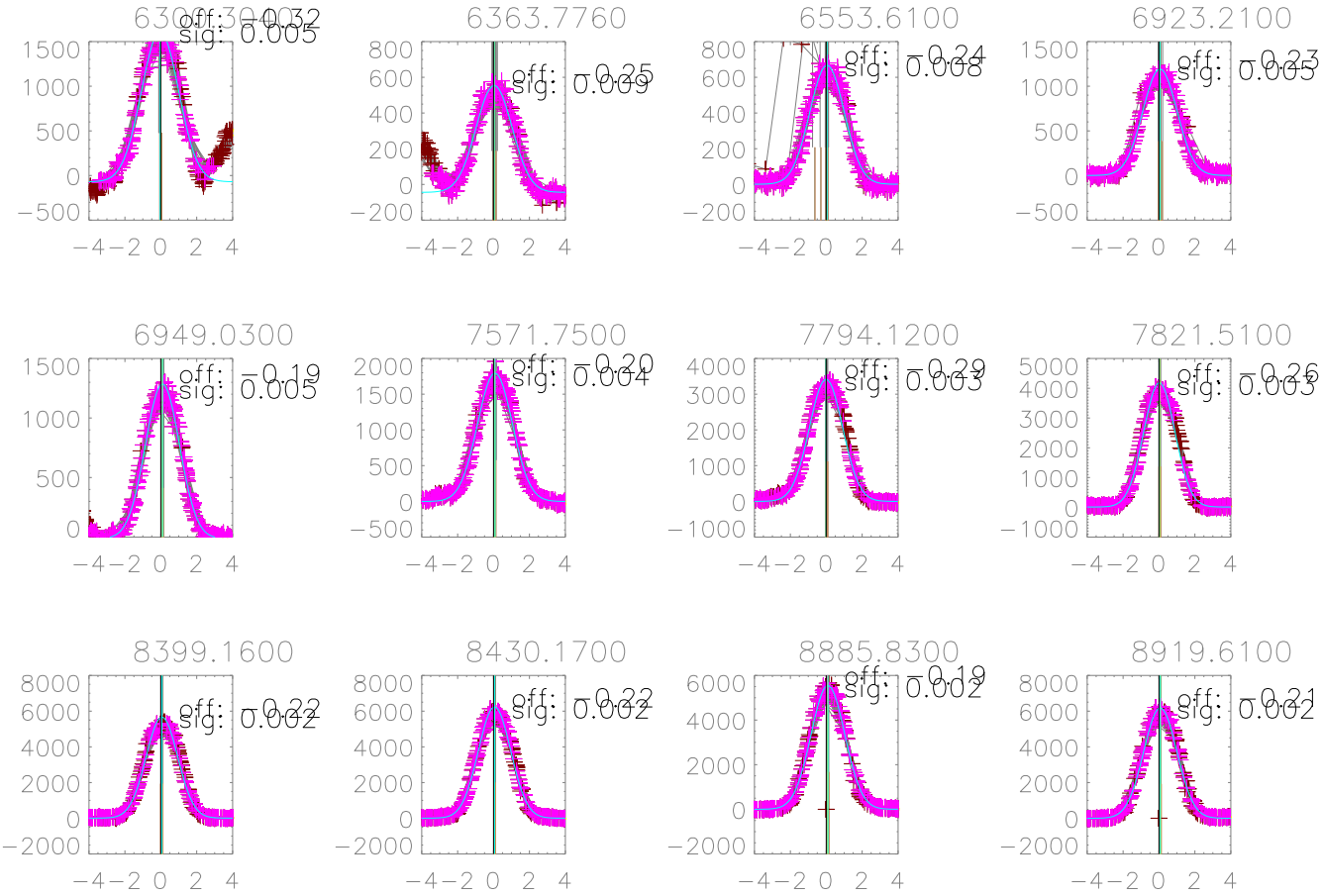

PLATE=2965 MJD=54594 Scattered Light before halo removal on sdR-r2-00052643.fi
50.9
36.4
21.8
Y [pix]
X [pix]
0
500
1000
1500
2000

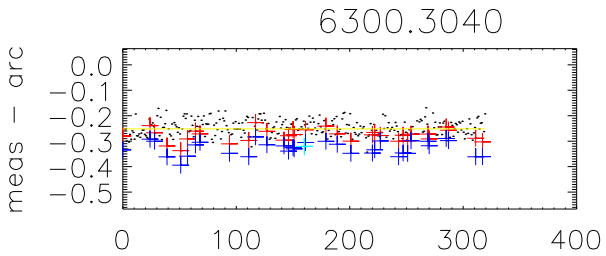

PLATE=2965 MJD=54594 Scattered Light before halo removal on sdR-r2-00052643.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 9.260
Max value = 60.733
Thu May 8 19:45:10 2008

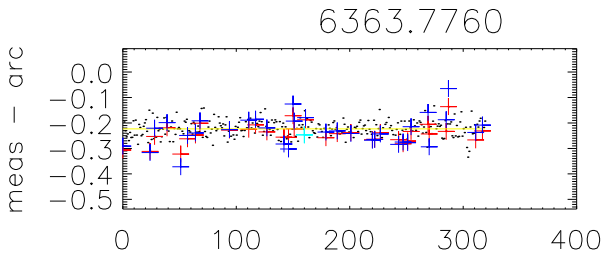

PLATE=2965 MJD=54594 Scattered Light on sdR-r2-00052643.fit
18.6
24.1
13.2
18.6
13.2
0
13.2
0
13.2
Y [pix]
X [pix]
0
500
1000
1500
2000

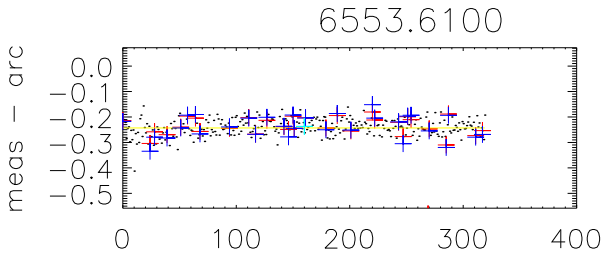

PLATE=2965 MJD=54594 Scattered Light on sdR-r2-00052643.fit
Brightness [electrons/pix]
40
30
20
10
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 8.898
Max value = 19.280
Thu May 8 19:47:34 2008

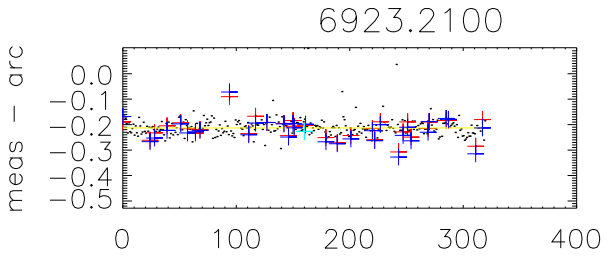

PLATE=2965 MJD=54594 Extraction chi^2 for sdR-r2-00052643.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

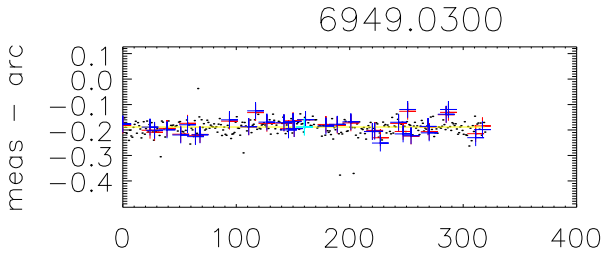

6300.3000
off: −0.32
sig: 0.005
6363.7760
off: −0.25
sig: 0.009
6553.6100
off: −0.24
sig: 0.008
6923.2100
off: −0.23
sig: 0.005
6949.0300
off: −0.19
sig: 0.005
7571.7500
off: −0.20
sig: 0.004
7794.1200
off: −0.29
sig: 0.003
7821.5100
off: −0.26
sig: 0.003
8399.1600
off: −0.22
sig: 0.002
8430.1700
off: −0.22
sig: 0.002
8885.8300
off: −0.19
sig: 0.002
8919.6100
off: −0.21
sig: 0.002

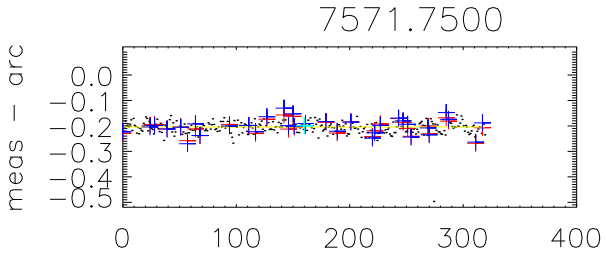

6300.3040
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

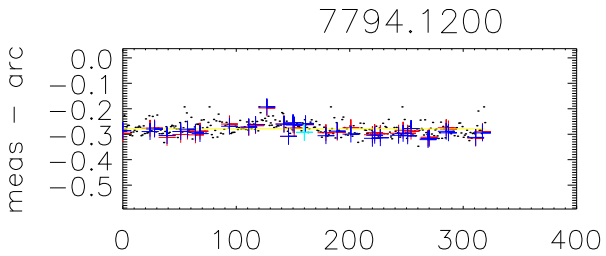

6363.7760
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

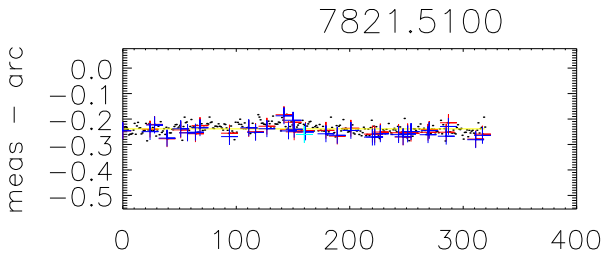

6553.6100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

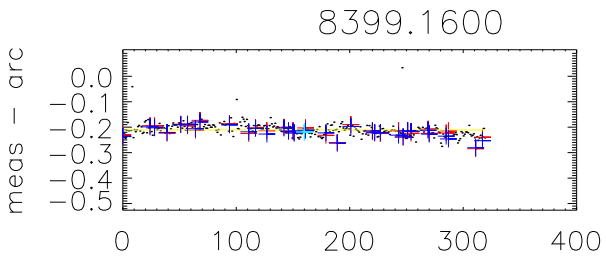

6923.2100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

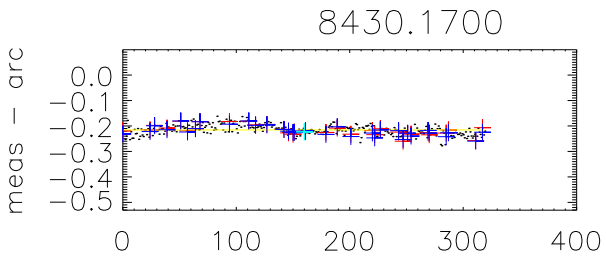

6949.0300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

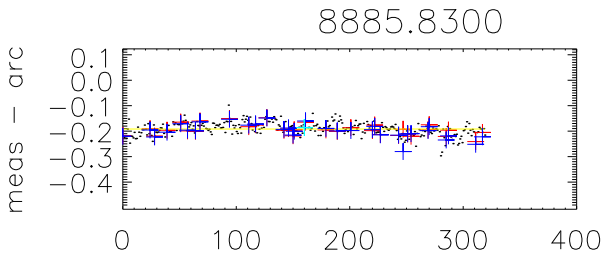

7571.7500
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

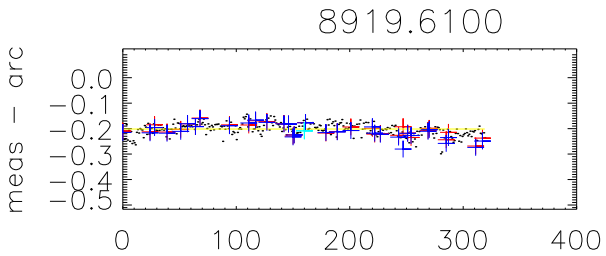

7794.1200
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

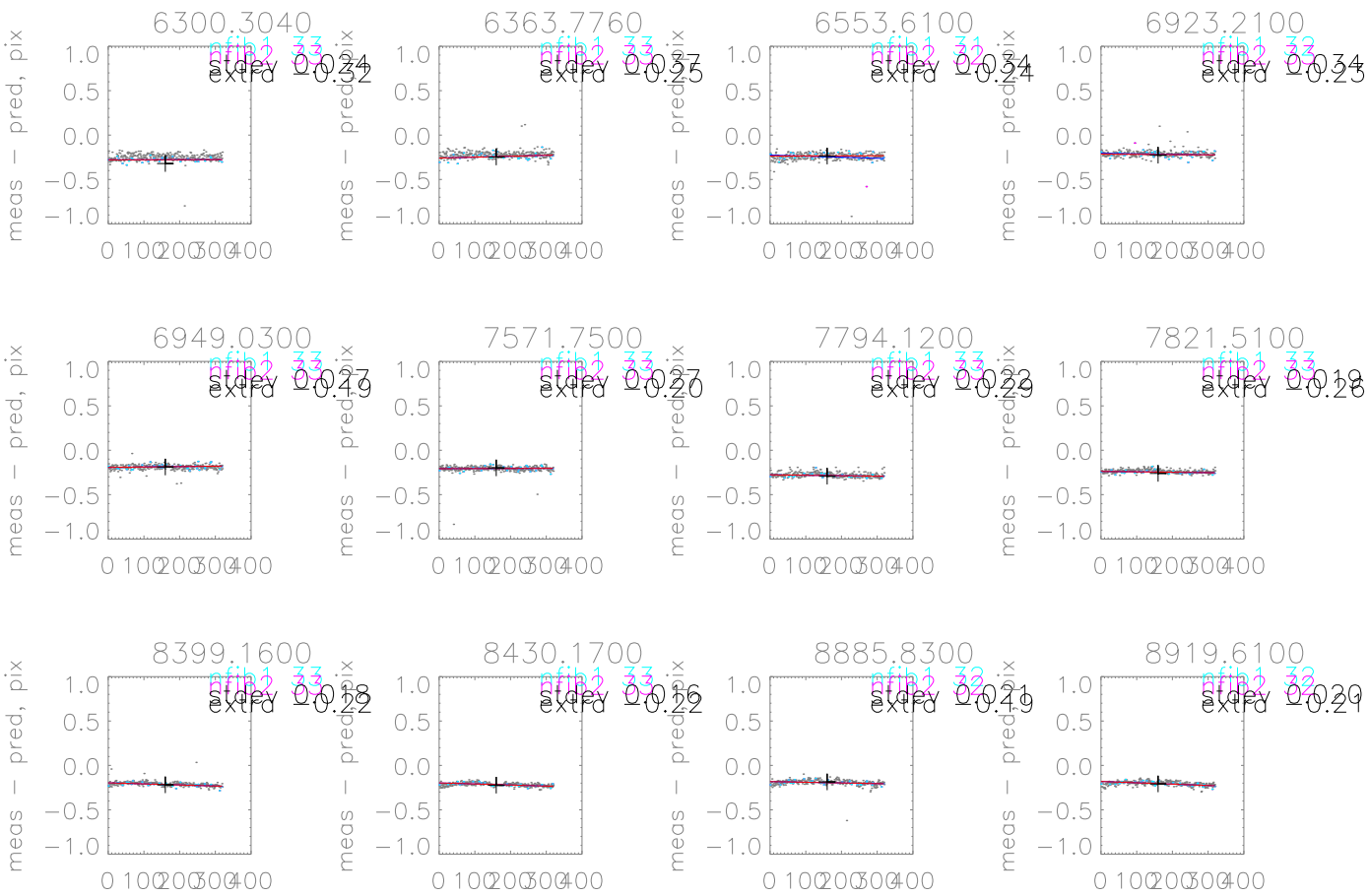

7821.5100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

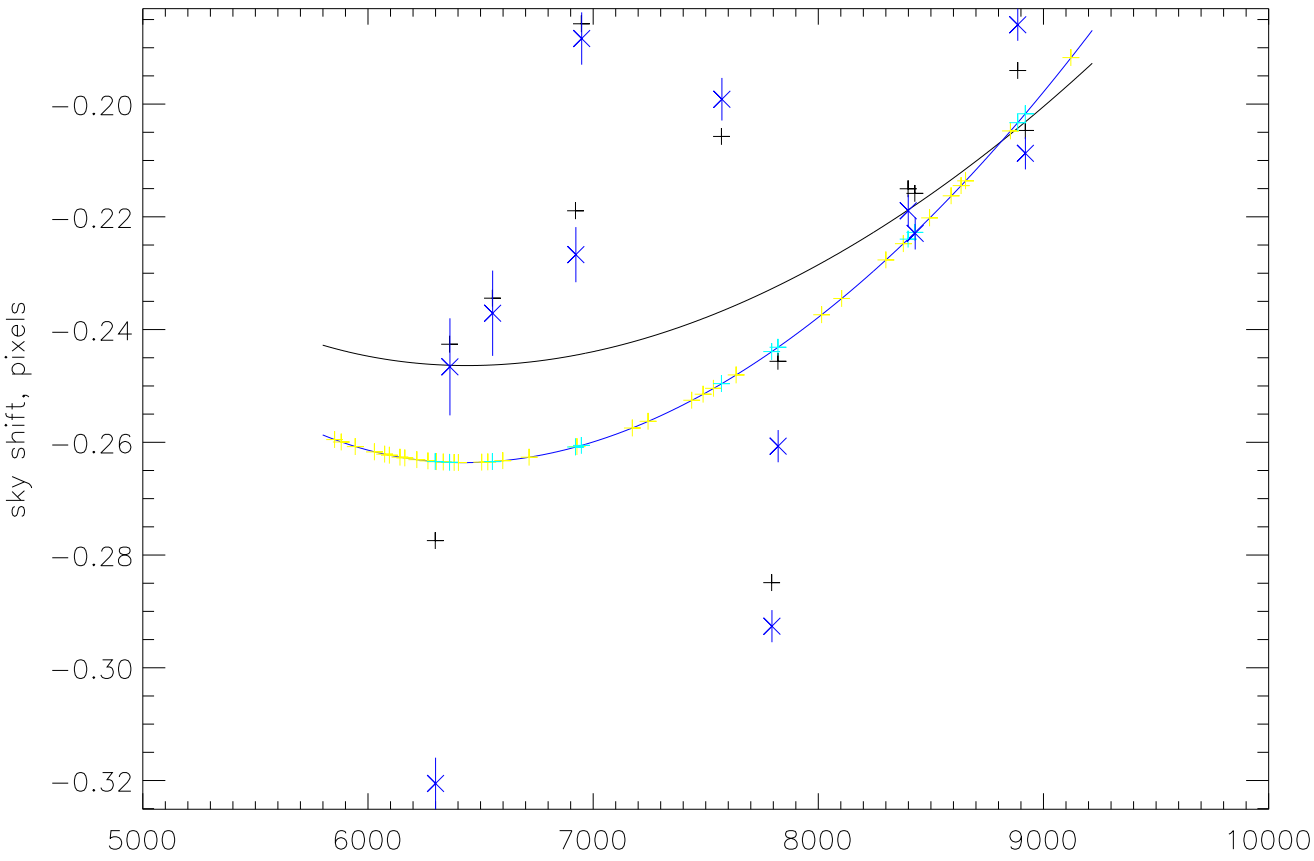

8399.1600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

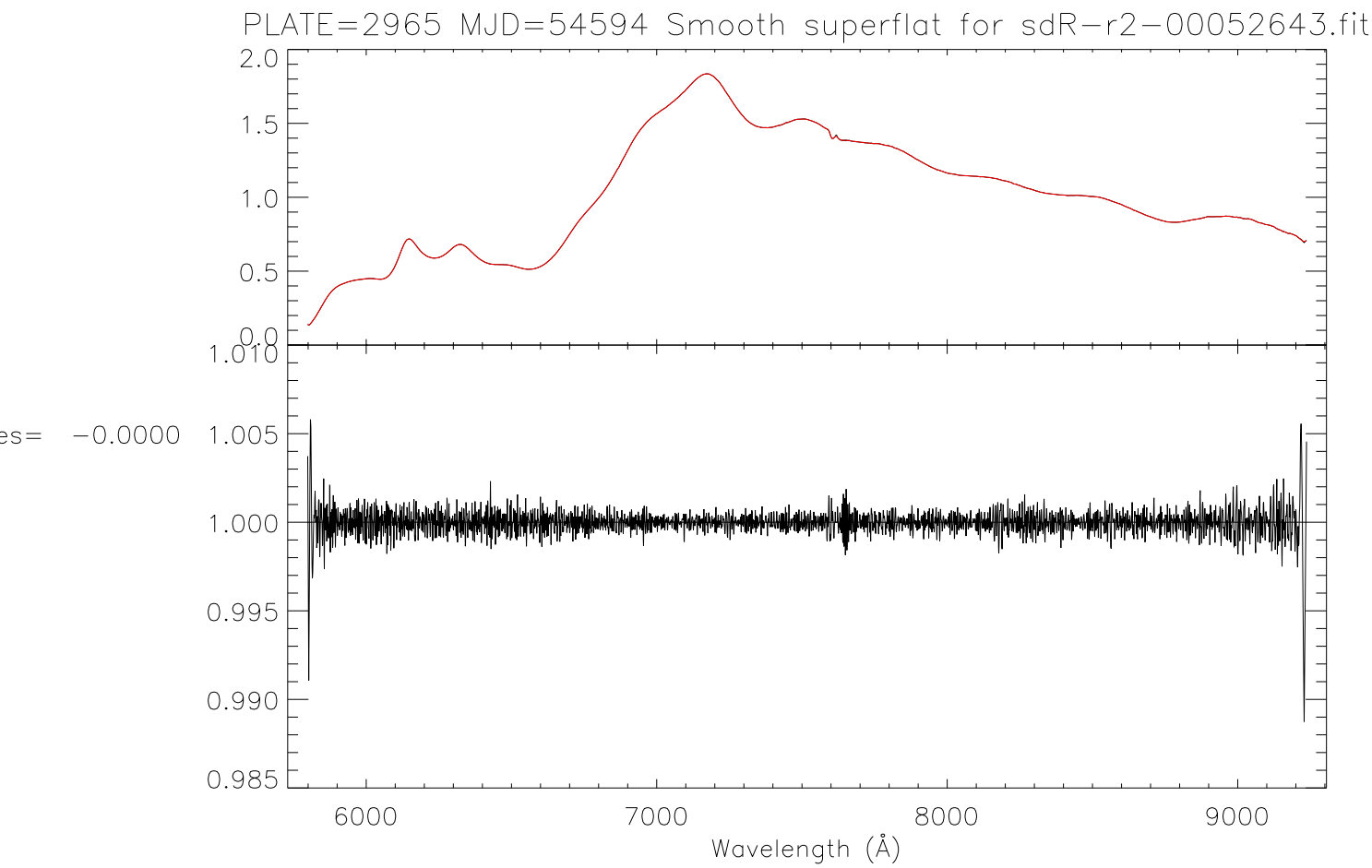

8430.1700
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

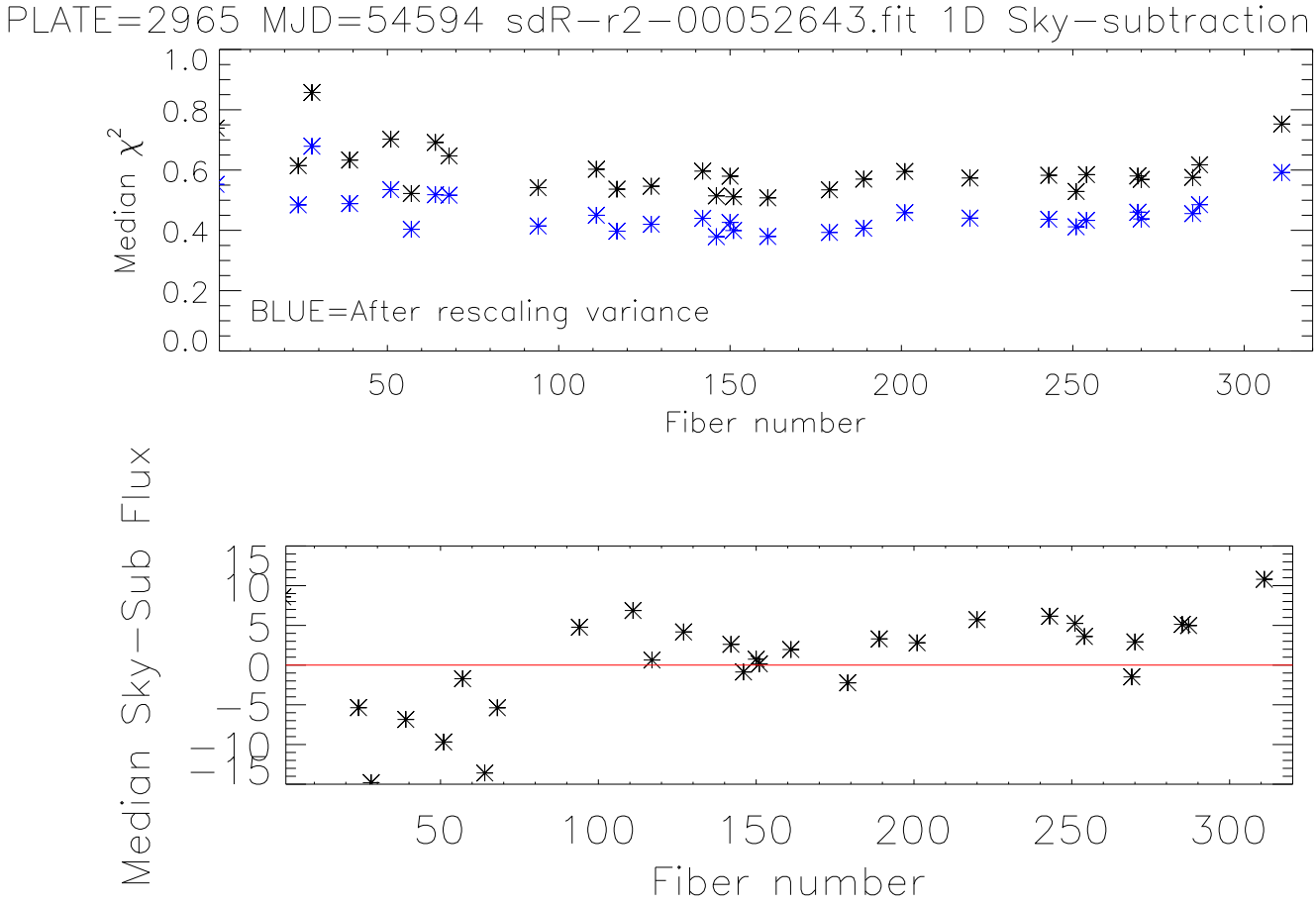

8885.8300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

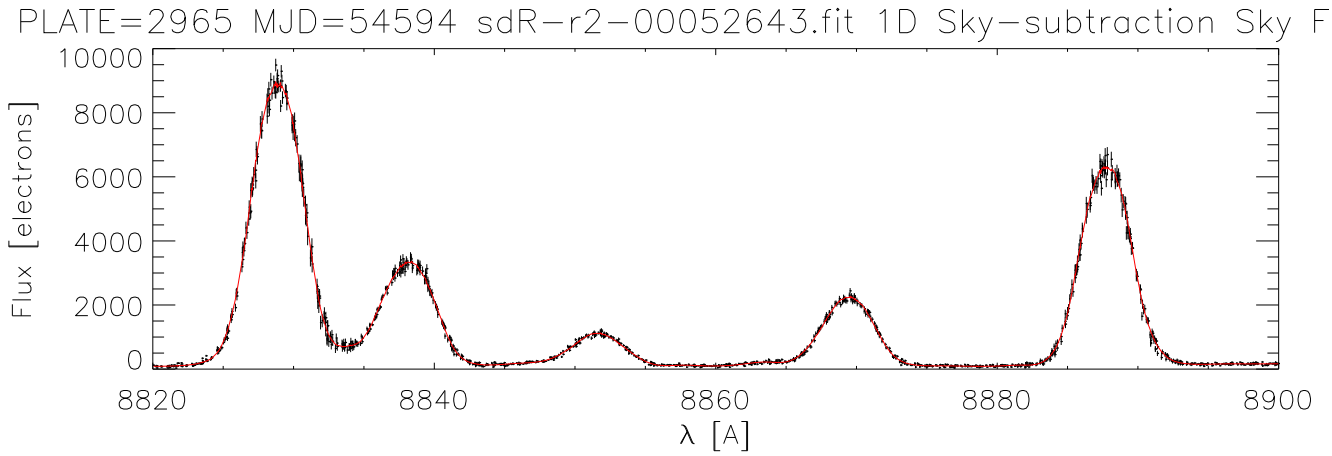

8919.6100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

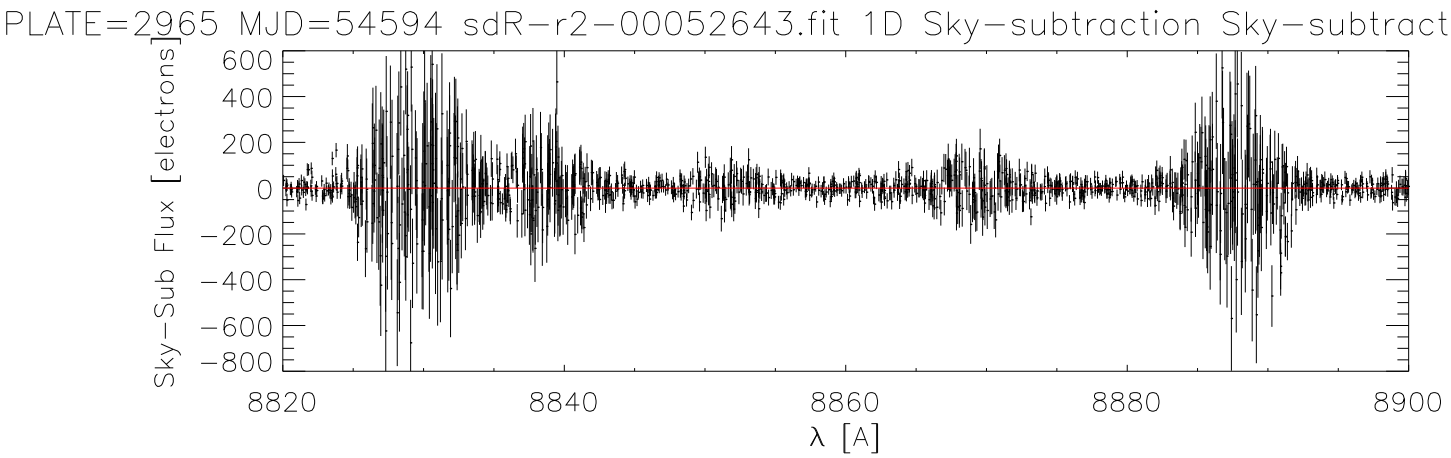

6300.3040
6363.7760
6553.6100
6923.2100
6949.0300
7571.7500
7794.1200
7821.5100
8399.1600
8430.1700
8885.8300
8919.6100
meas − pred, pix
mfib1 33
mfib2 33
stdev 0.024
extra −0.32
stdev 0.037
extra −0.25
mfib1 31
mfib2 32
stdev 0.034
extra −0.24
mfib1 32
mfib2 32
stdev 0.034
extra −0.23
stdev 0.027
extra −0.49
stdev 0.027
extra −0.20
stdev 0.022
extra −0.29
stdev 0.018
extra −0.28
stdev 0.018
extra −0.22
stdev 0.016
extra −0.22
stdev 0.021
extra −0.49
stdev 0.020
extra −0.21
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

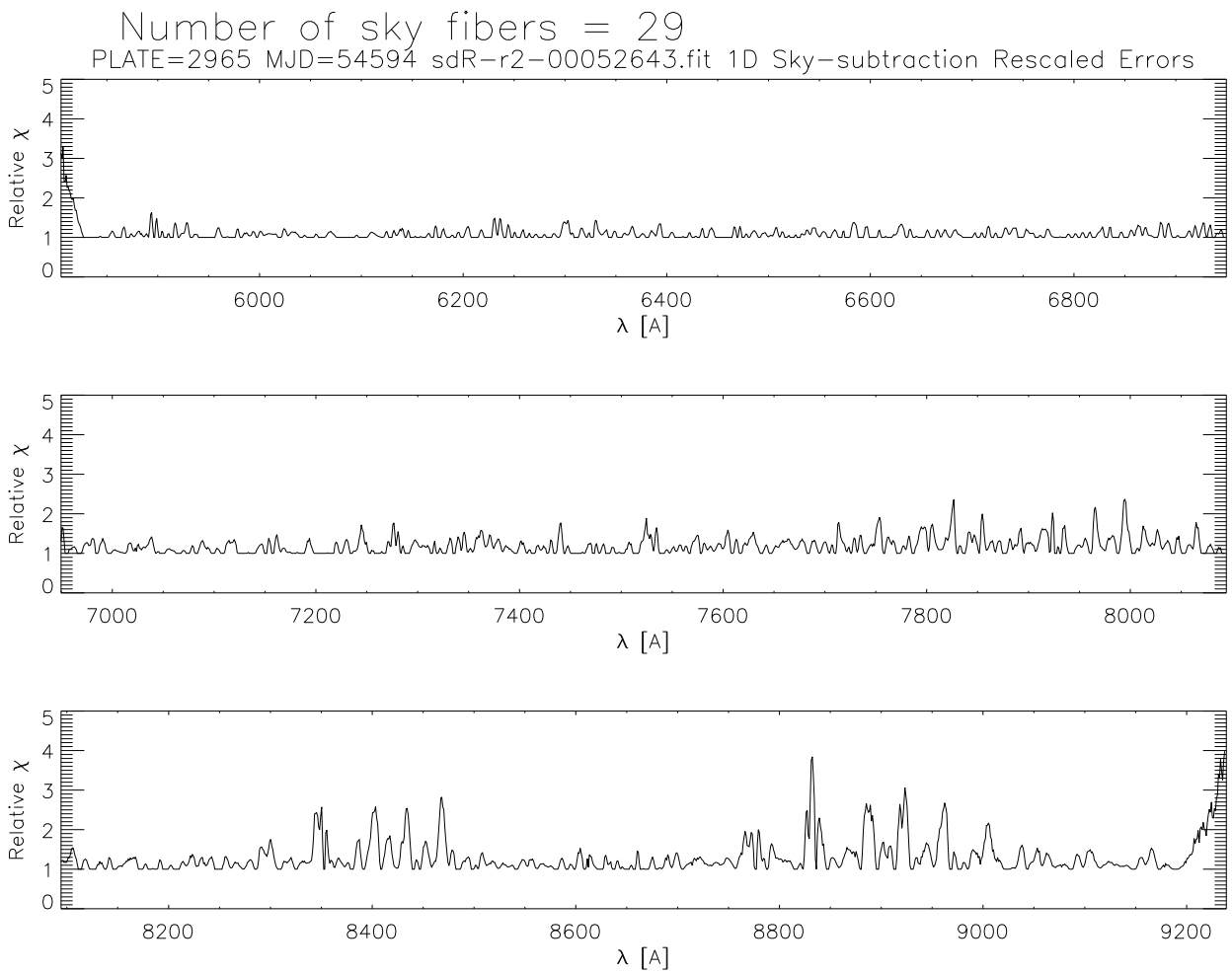

sky shift, pixels
−0.20
−0.22
−0.24
−0.26
−0.28
−0.30
−0.32
5000
6000
7000
8000
9000
10000

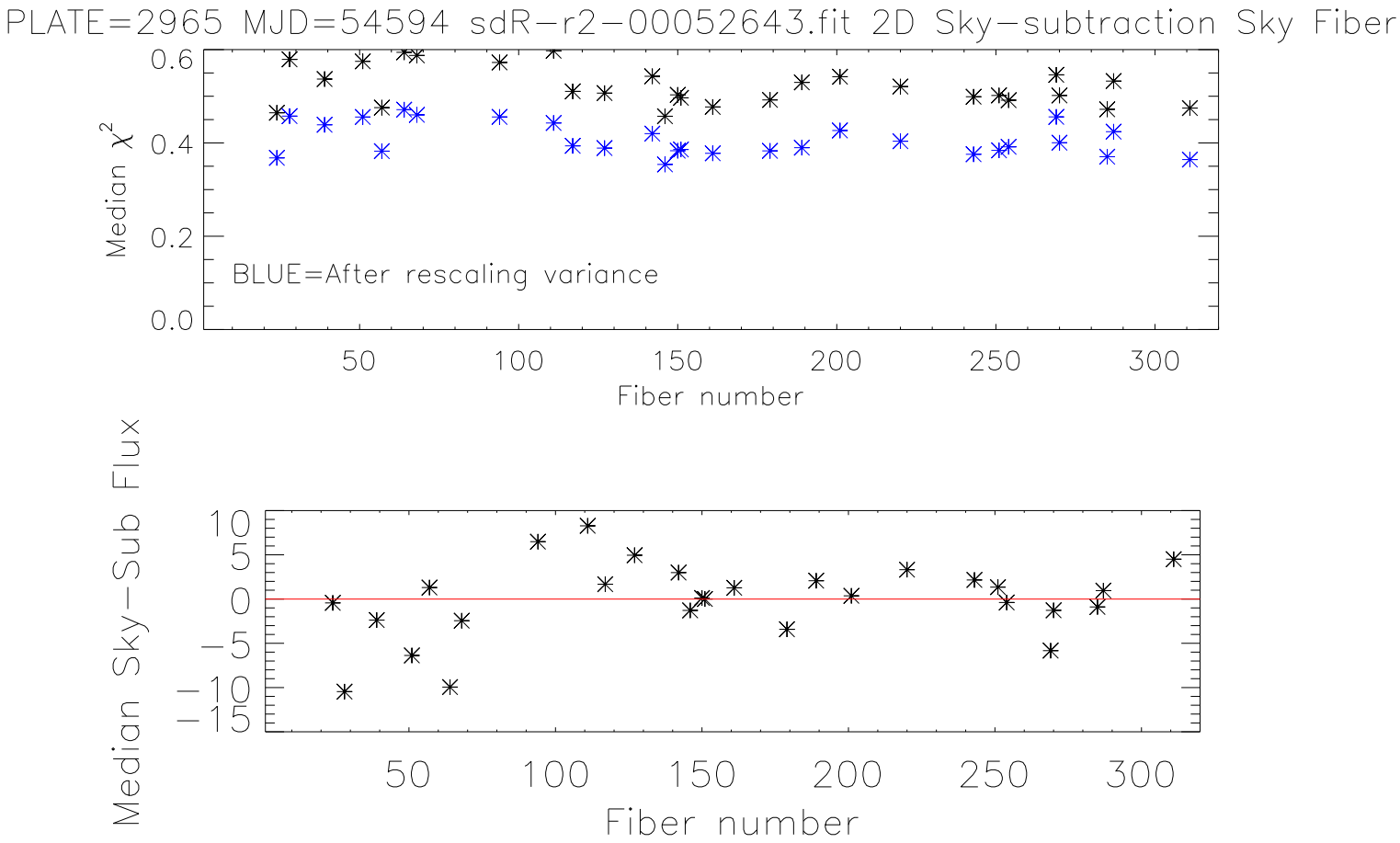

PLATE=2965 MJD=54594 Smooth superflat for sdR-r2-00052643.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

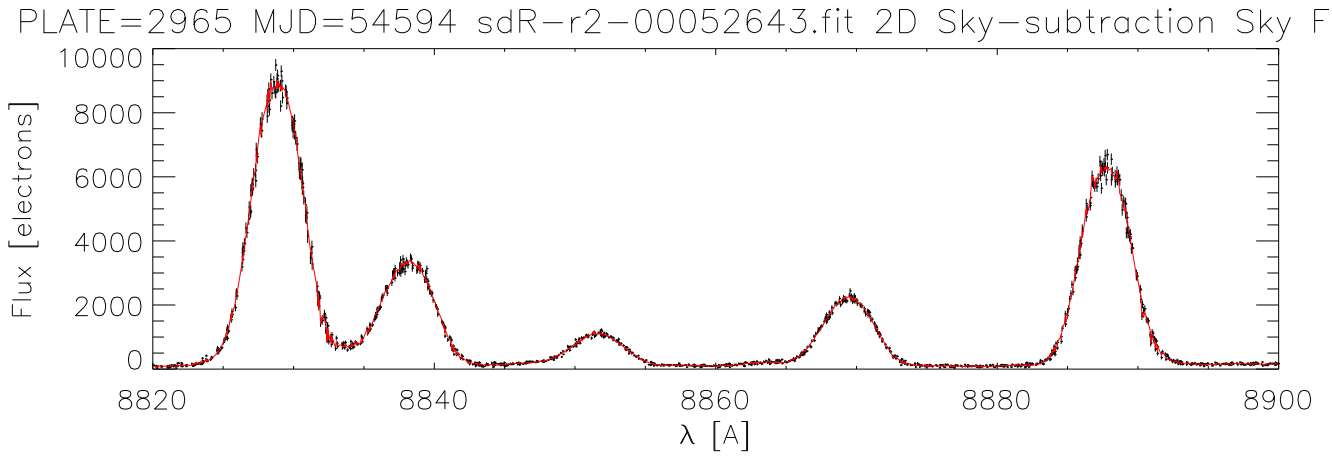

PLATE=2965 MJD=54594 sdR-r2-00052643.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

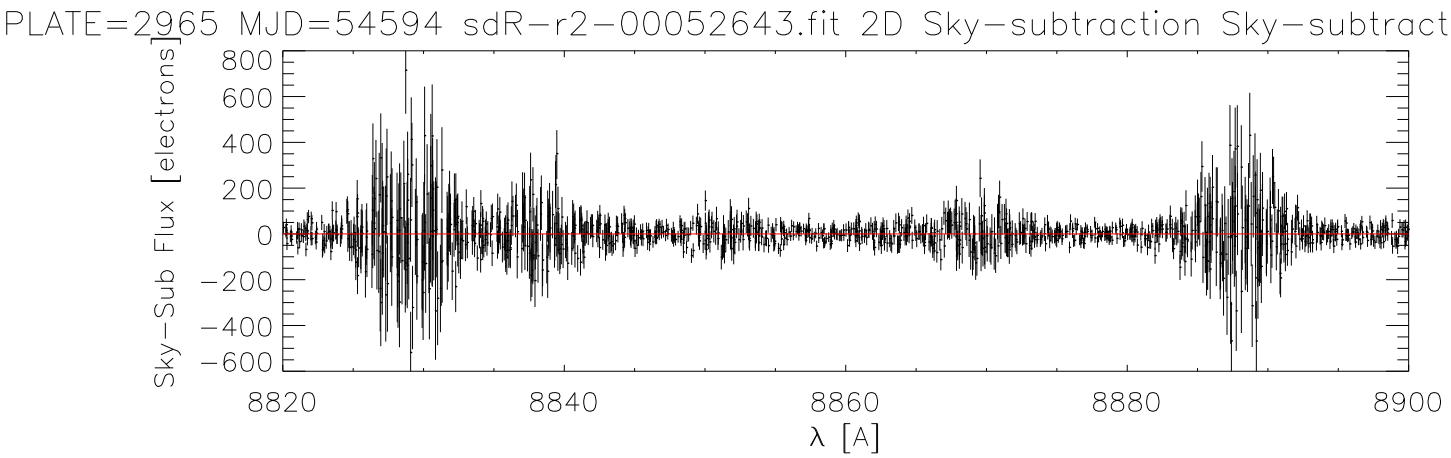

PLATE=2965 MJD=54594 sdR-r2-00052643.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

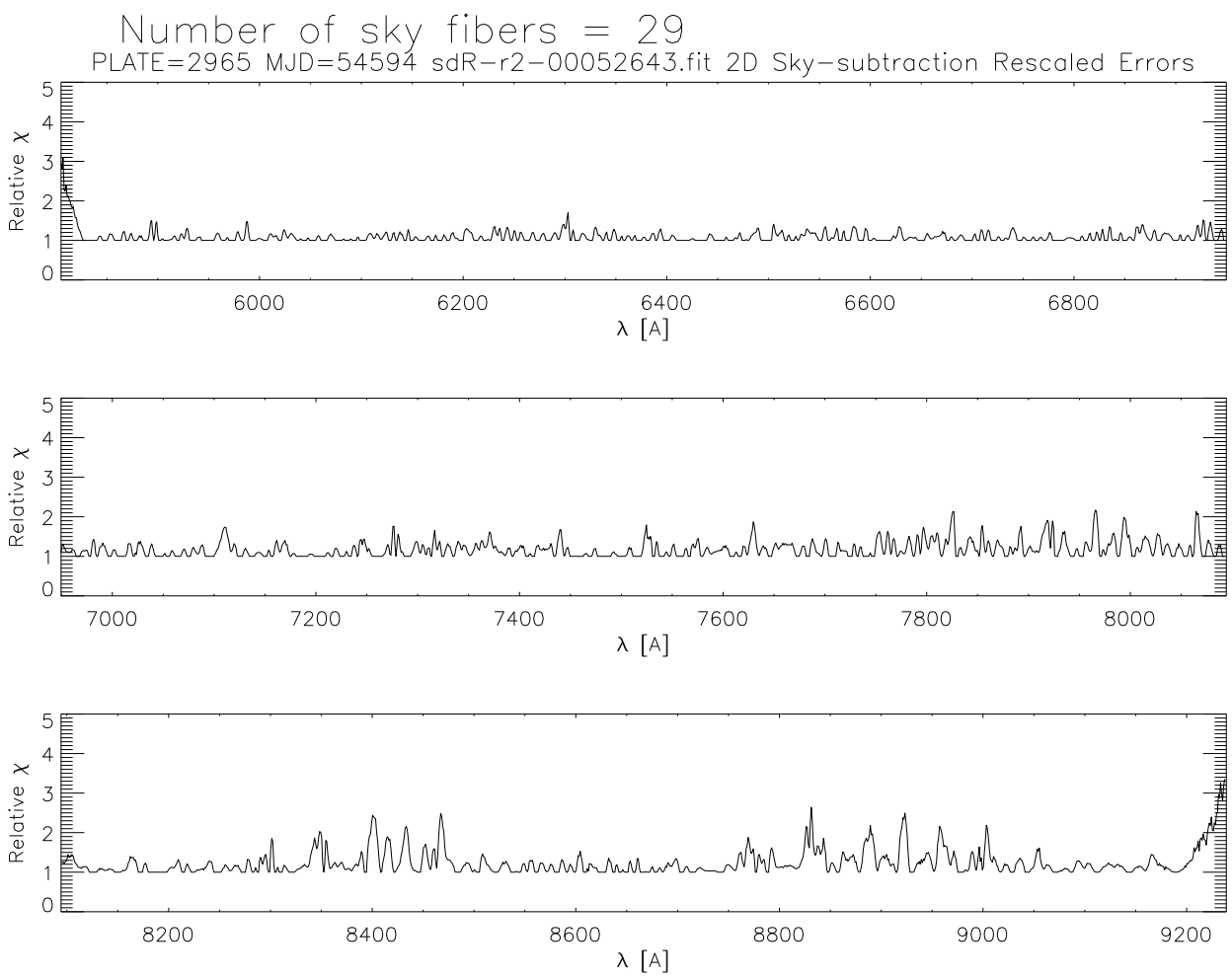

PLATE=2965 MJD=54594 sdR-r2-00052643.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
-600
-800
8820
8840
8860
8880
8900
λ [A]

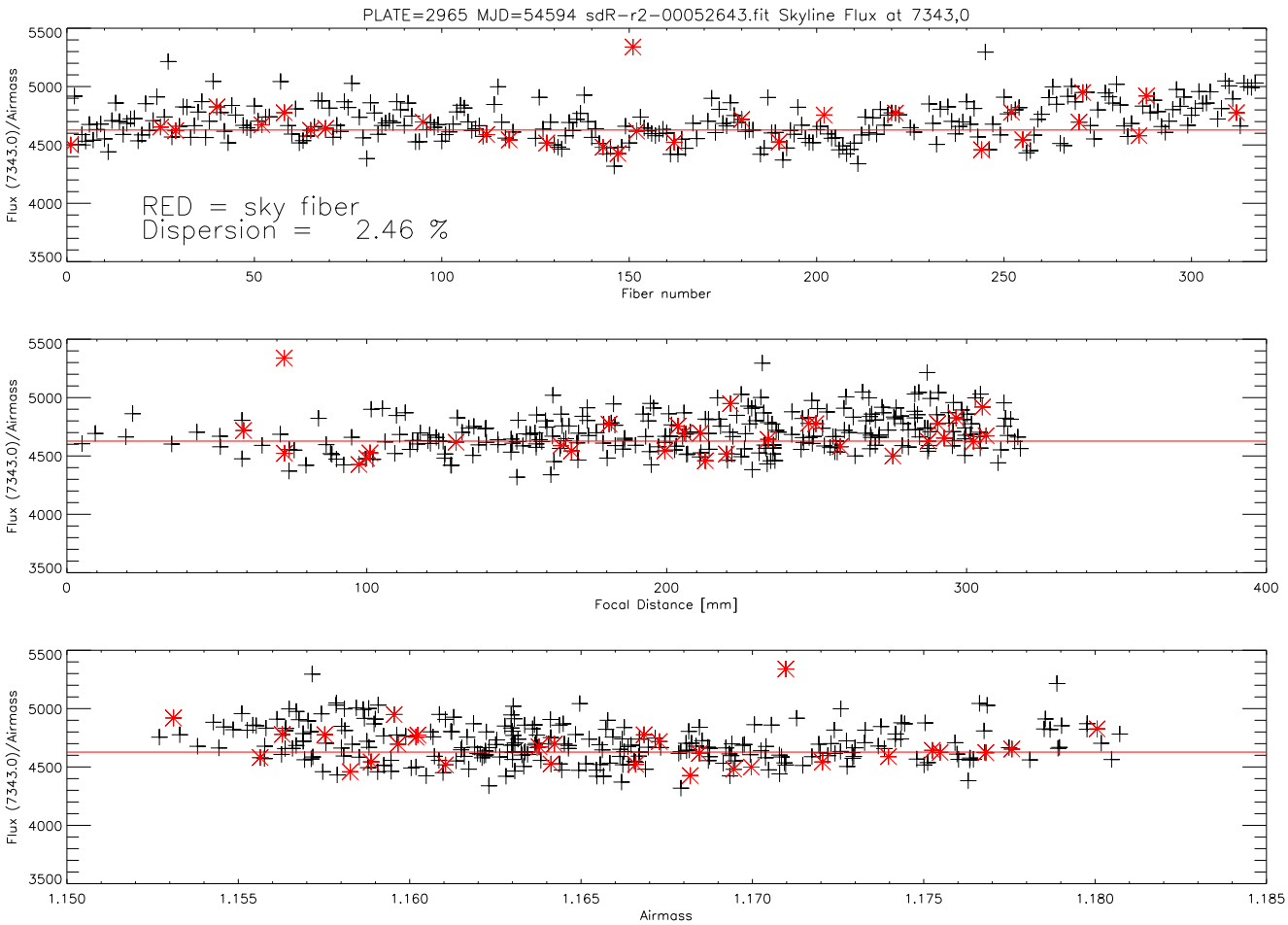

Number of sky fibers = 29
PLATE=2965 MJD=54594 sdR-r2-00052643.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

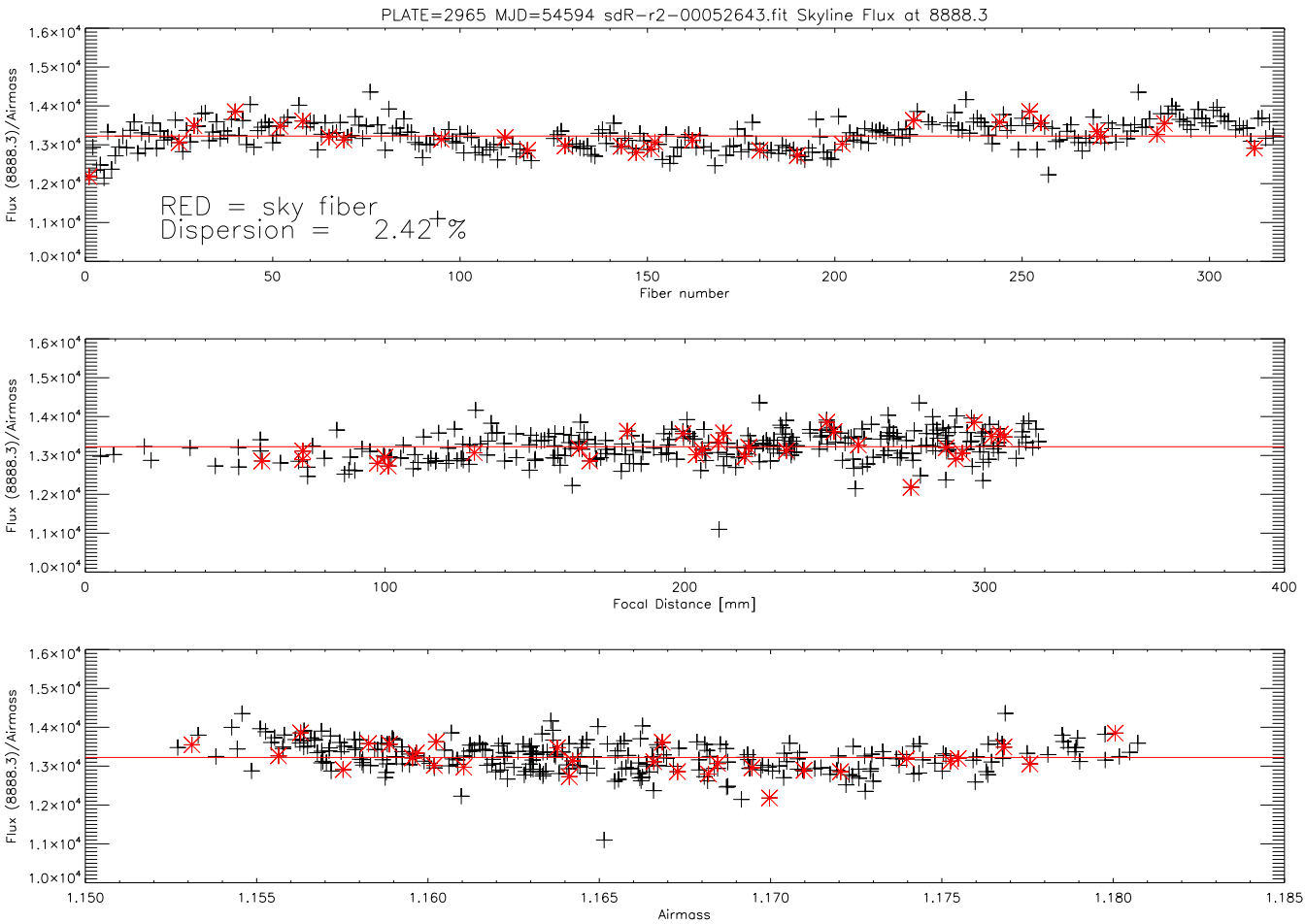

PLATE=2965 MJD=54594 sdR-r2-00052643.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

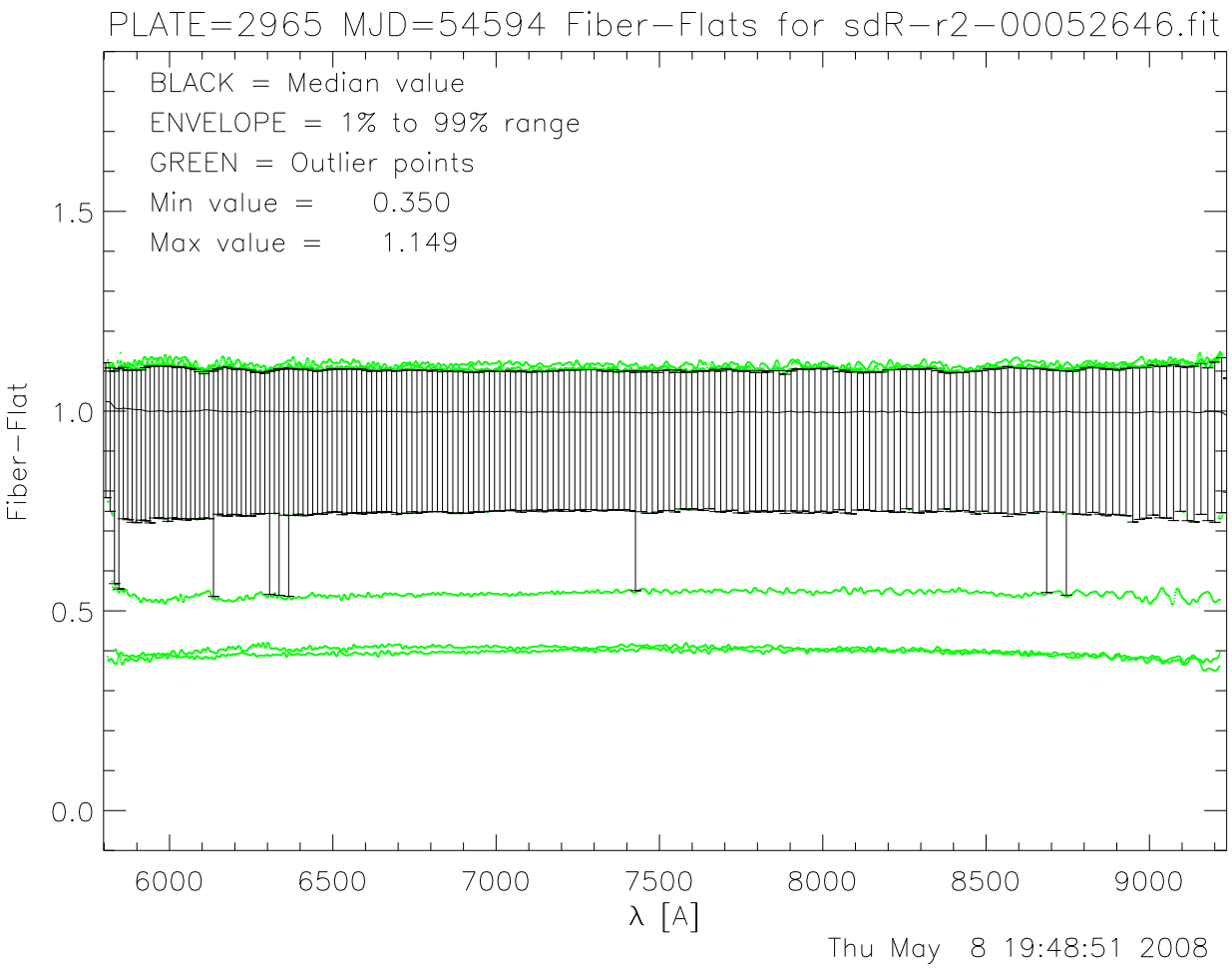

PLATE=2965 MJD=54594 sdR-r2-00052643.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

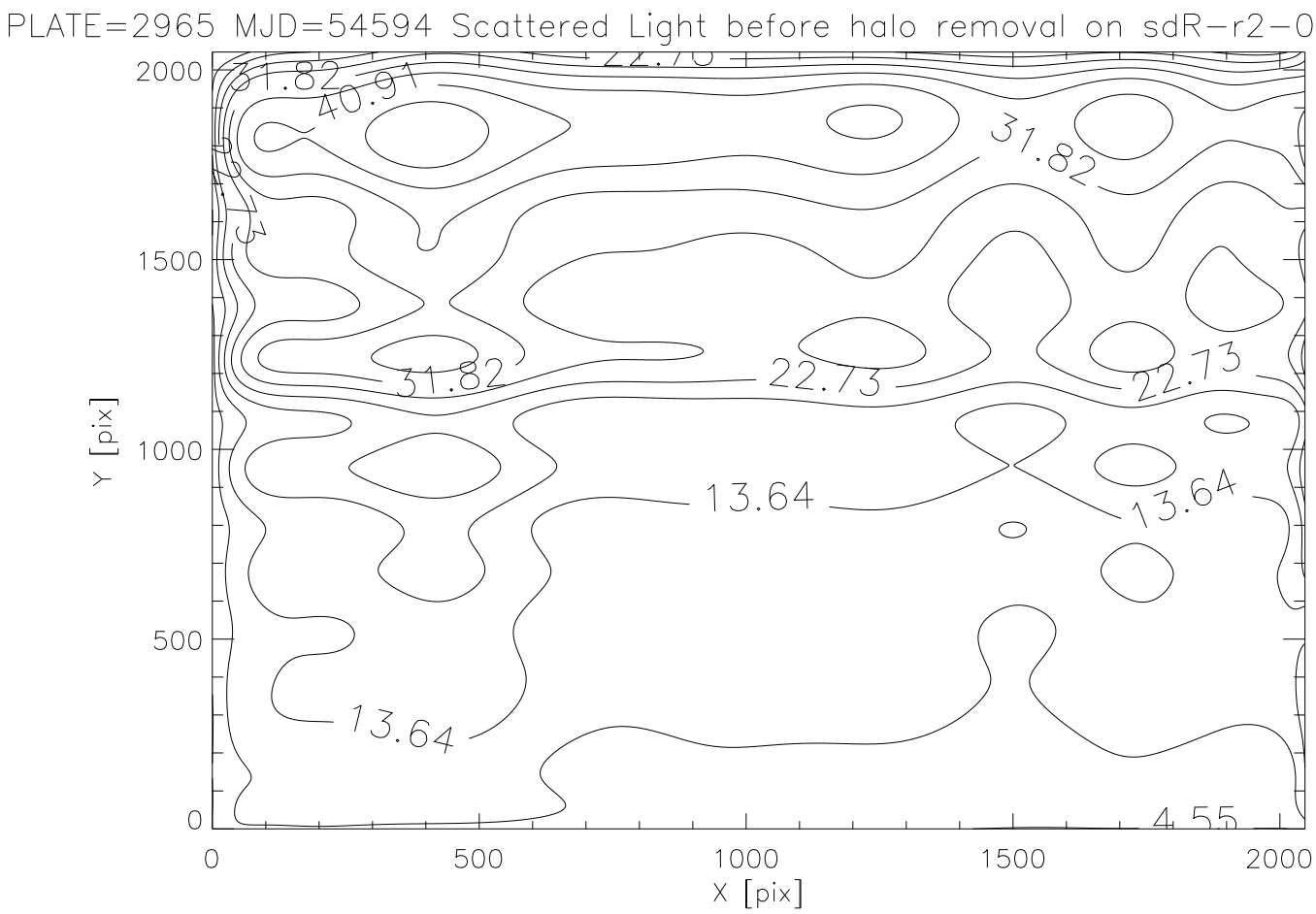

PLATE=2965 MJD=54594 sdR-r2-00052643.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
-400
-600
8820
8840
8860
8880
8900
λ [A]

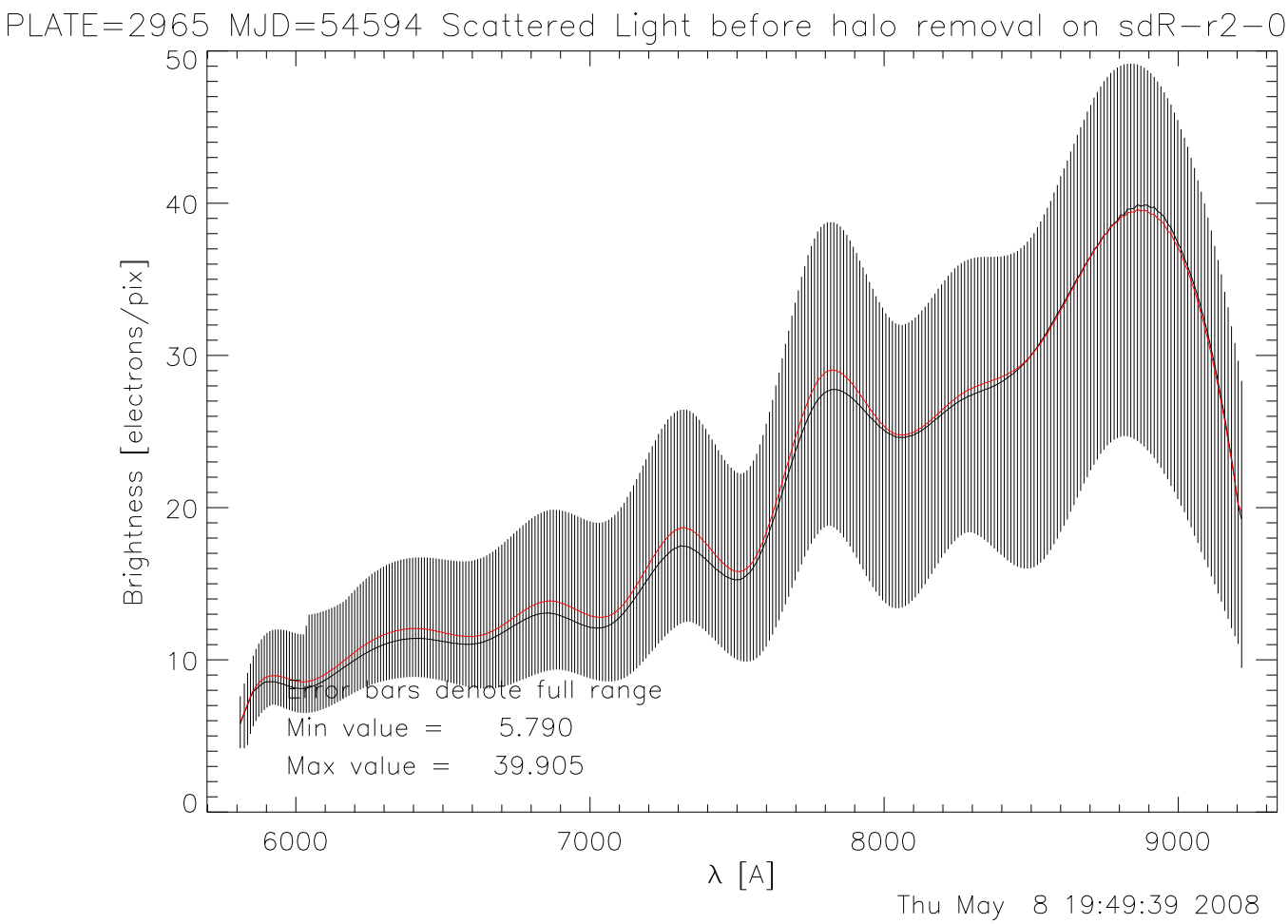

Number of sky fibers = 29
PLATE=2965 MJD=54594 sdR-r2-00052643.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

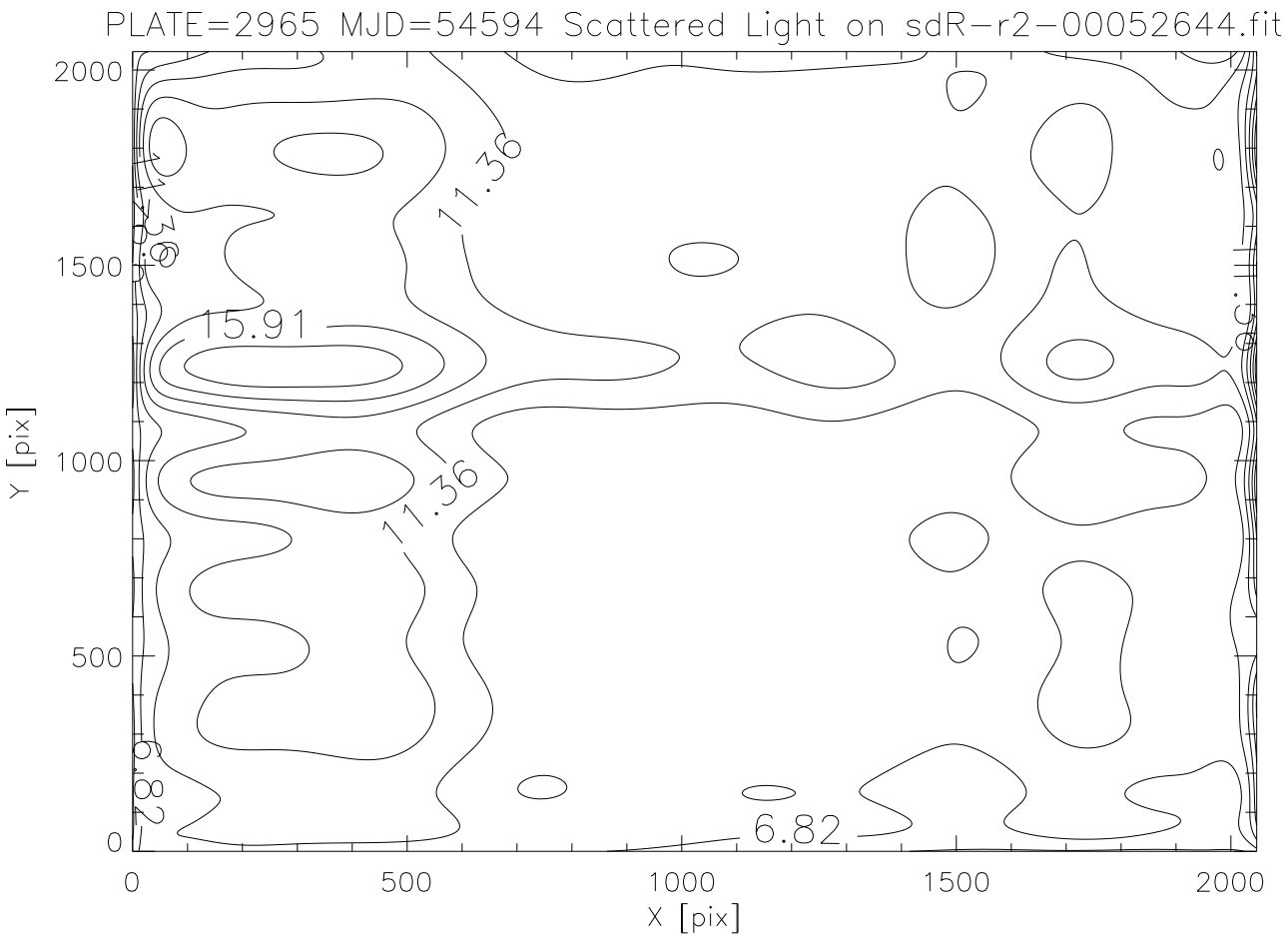

PLATE=2965 MJD=54594 sdR-r2-00052643.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.46 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

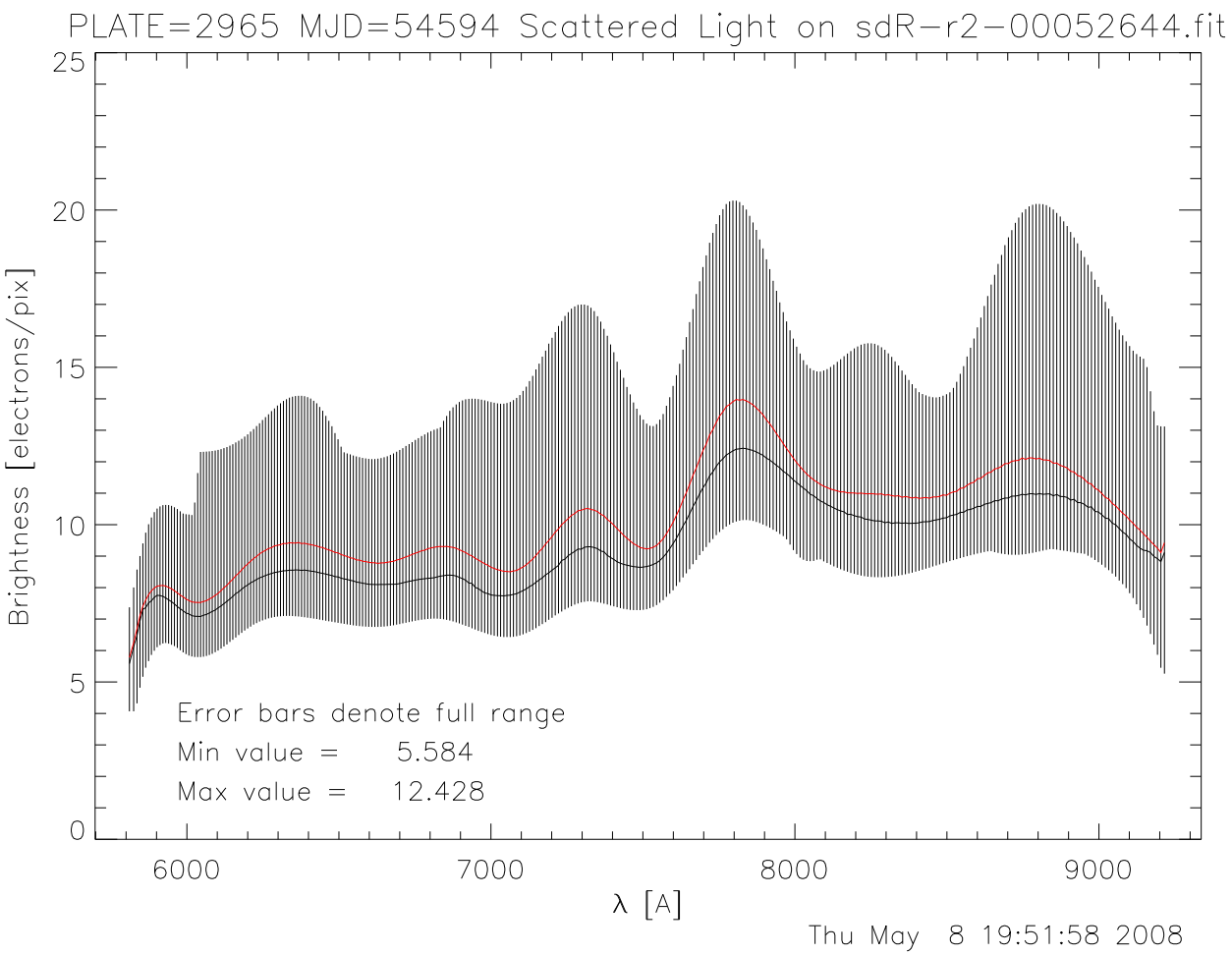

PLATE=2965 MJD=54594 sdR-r2-00052643.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.42+%
Fiber number
Focal Distance [mm]
Airmass

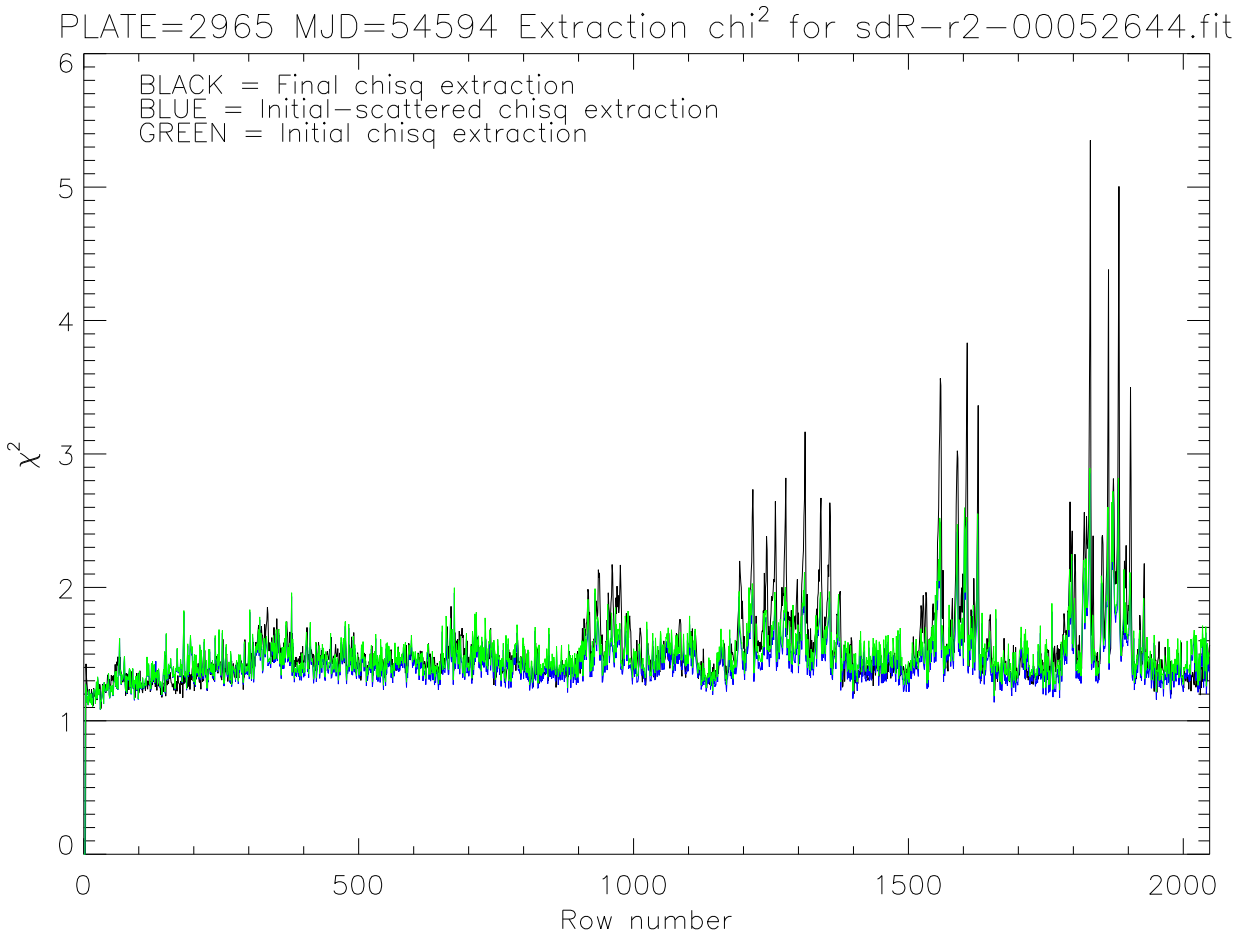

PLATE=2965 MJD=54594 Fiber−Flats for sdR−r2−00052646.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.350
Max value = 1.149
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Thu May 8 19:48:51 2008

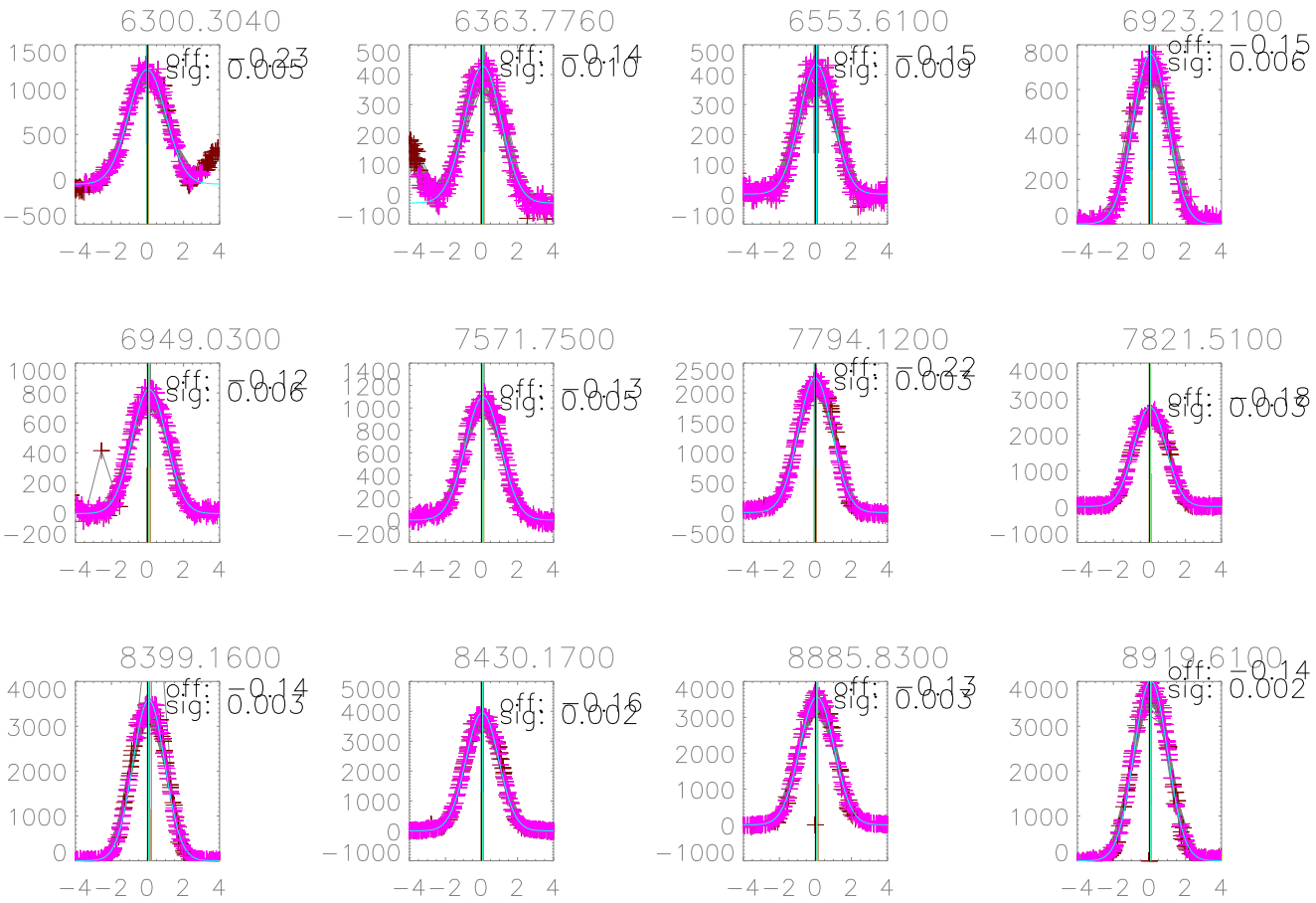

PLATE=2965 MJD=54594 Scattered Light before halo removal on sdR−r2−00052644.fi
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
31.82
40.91
31.82
31.82
22.73
22.73
13.64
13.64
13.64
4.55

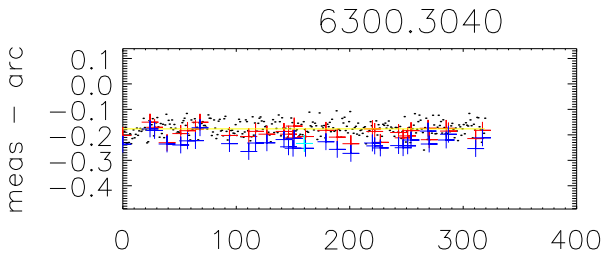

PLATE=2965 MJD=54594 Scattered Light before halo removal on sdR-r2-00052644.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.790
Max value = 39.905
Thu May 8 19:49:39 2008

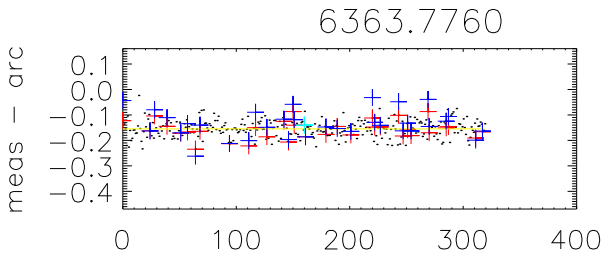

PLATE=2965 MJD=54594 Scattered Light on sdR-r2-00052644.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
15.91
11.36
11.36
11.36
11.36
6.82
6.82
6.82
0
0

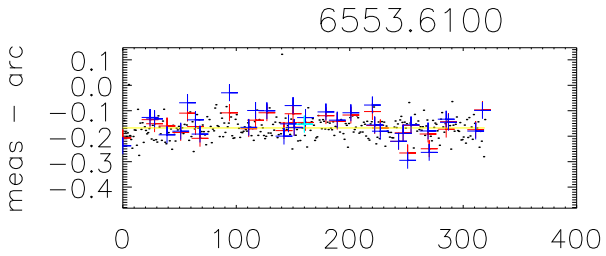

PLATE=2965 MJD=54594 Scattered Light on sdR-r2-00052644.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.584
Max value = 12.428
Thu May 8 19:51:58 2008

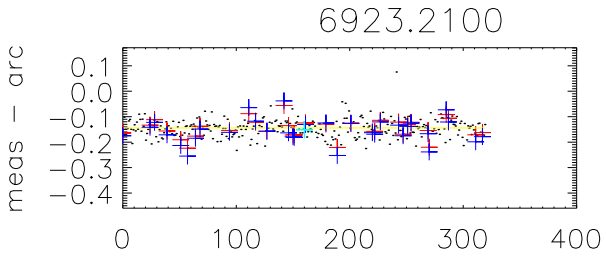

PLATE=2965 MJD=54594 Extraction chi^2 for sdR−r2−00052644.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

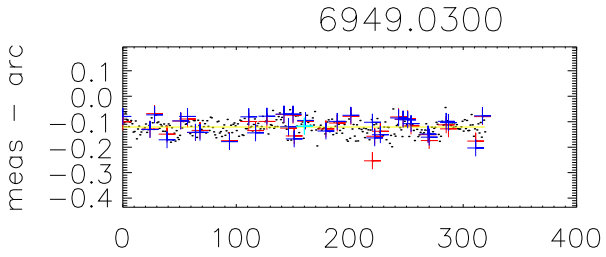

6300.3040
off: −0.23
sig: 0.005
6363.7760
off: −0.14
sig: 0.010
6553.6100
off: −0.15
sig: 0.009
6923.2100
off: −0.15
sig: 0.006
6949.0300
off: −0.12
sig: 0.006
7571.7500
off: −0.13
sig: 0.005
7794.1200
off: −0.22
sig: 0.003
7821.5100
off: −0.18
sig: 0.003
8399.1600
off: −0.14
sig: 0.003
8430.1700
off: −0.16
sig: 0.002
8885.8300
off: −0.13
sig: 0.003
8919.6100
off: −0.14
sig: 0.002

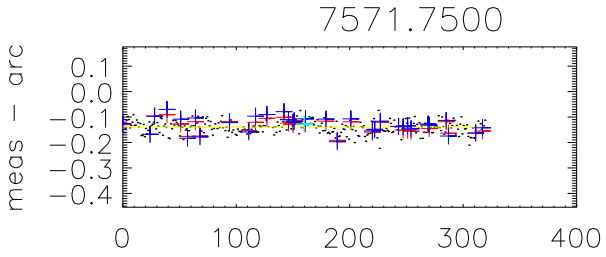

6300.3040
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

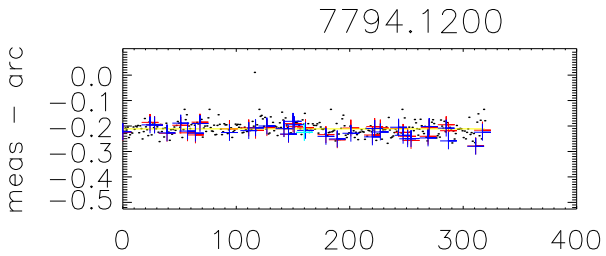

6363.7760
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

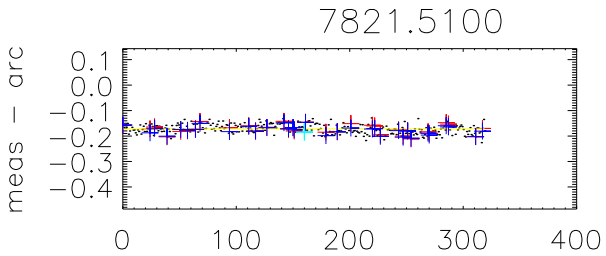

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

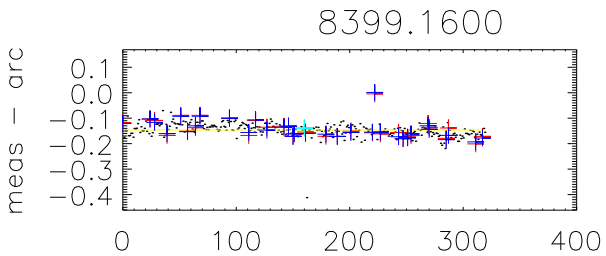

6923.2100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

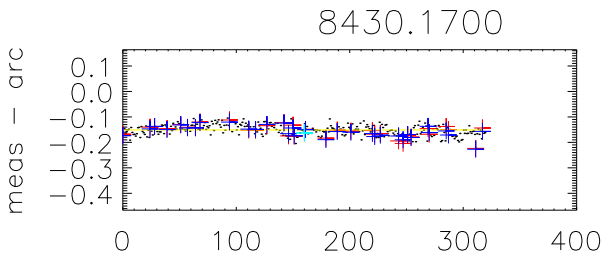

6949.0300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

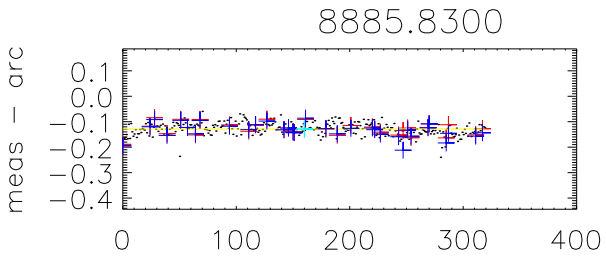

7571.7500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

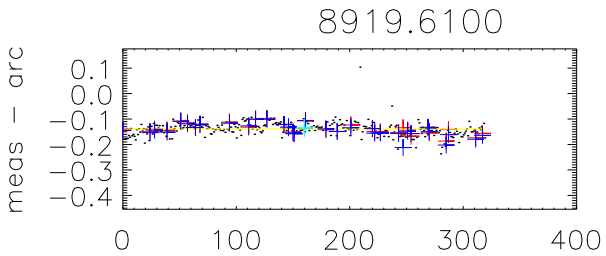

7794.1200
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

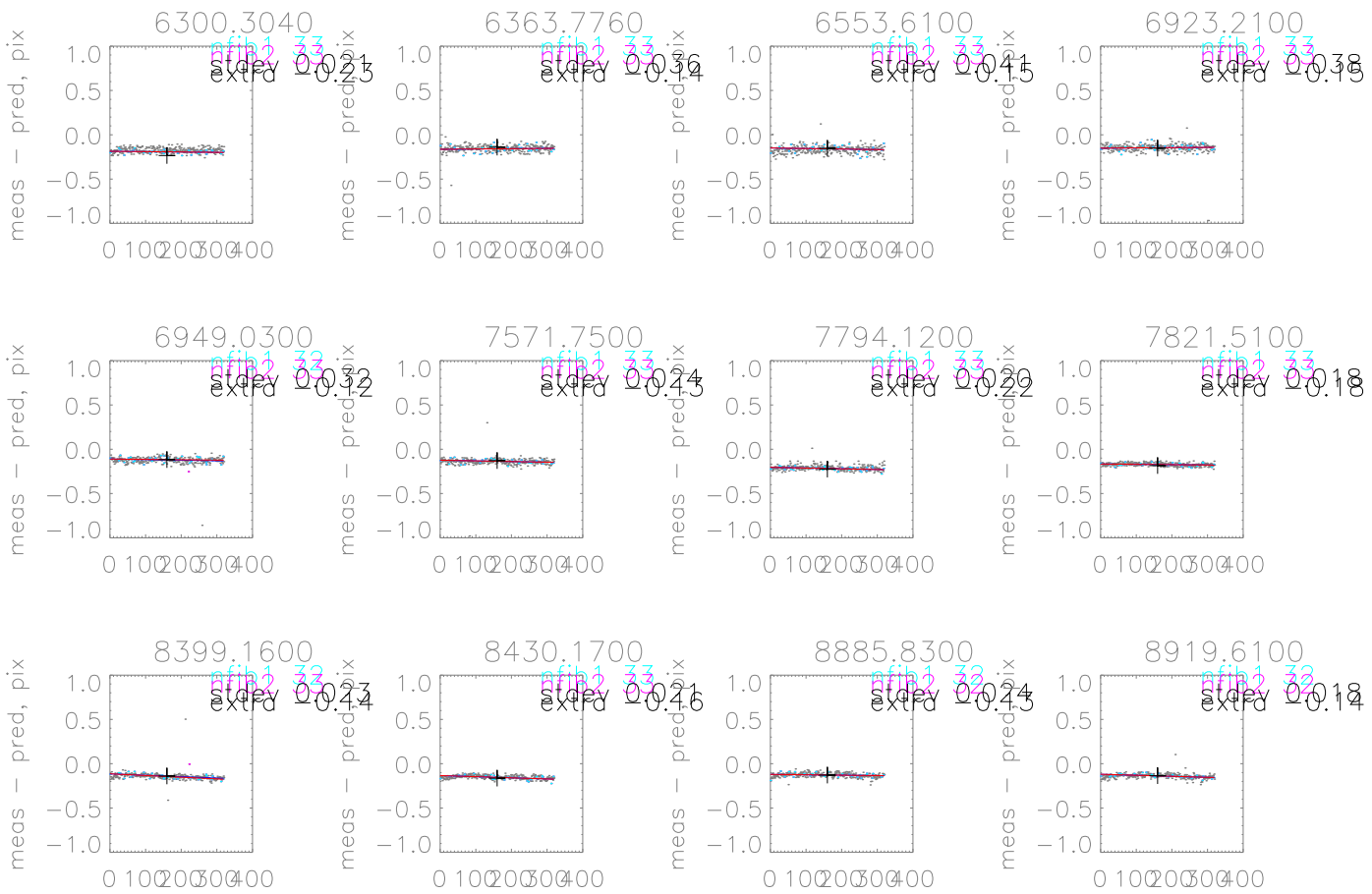

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

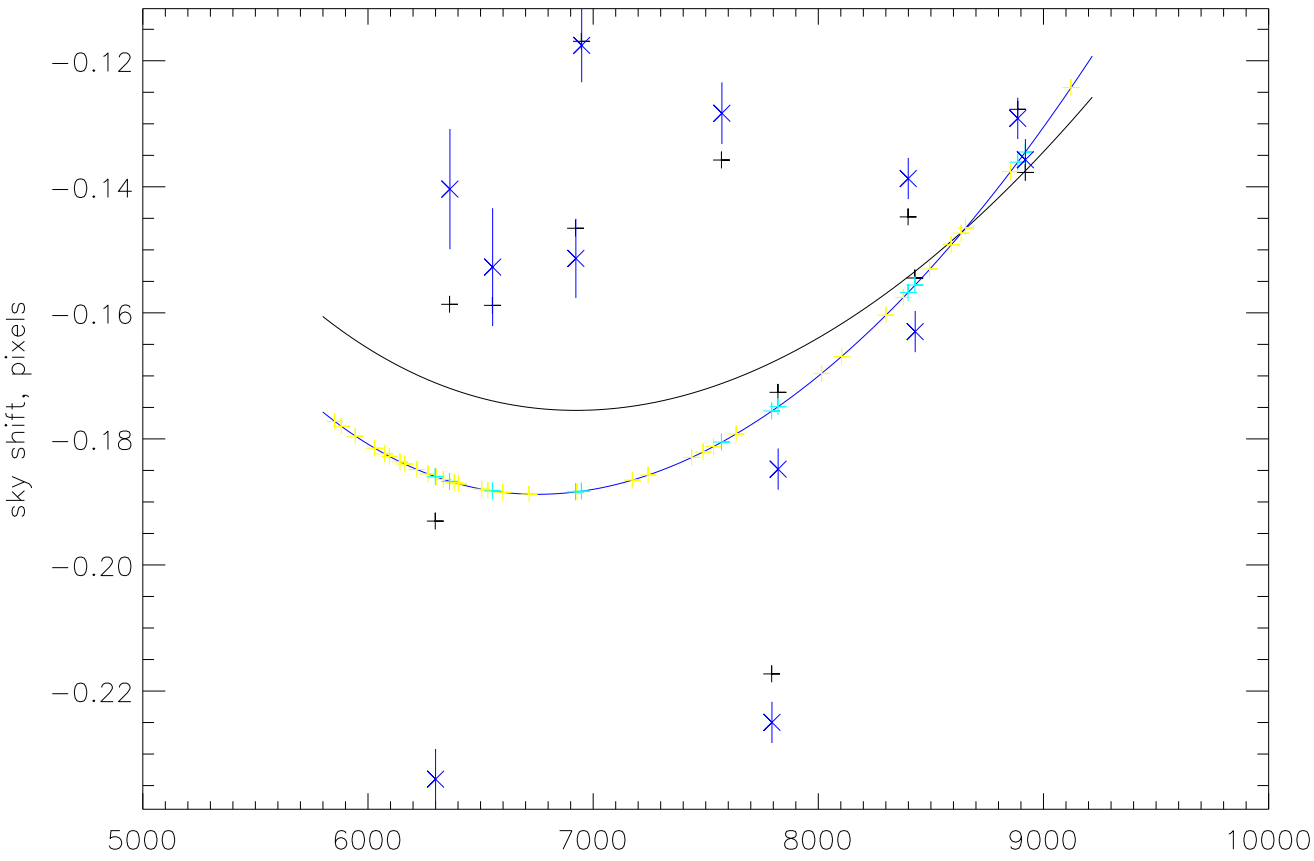

8399.1600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

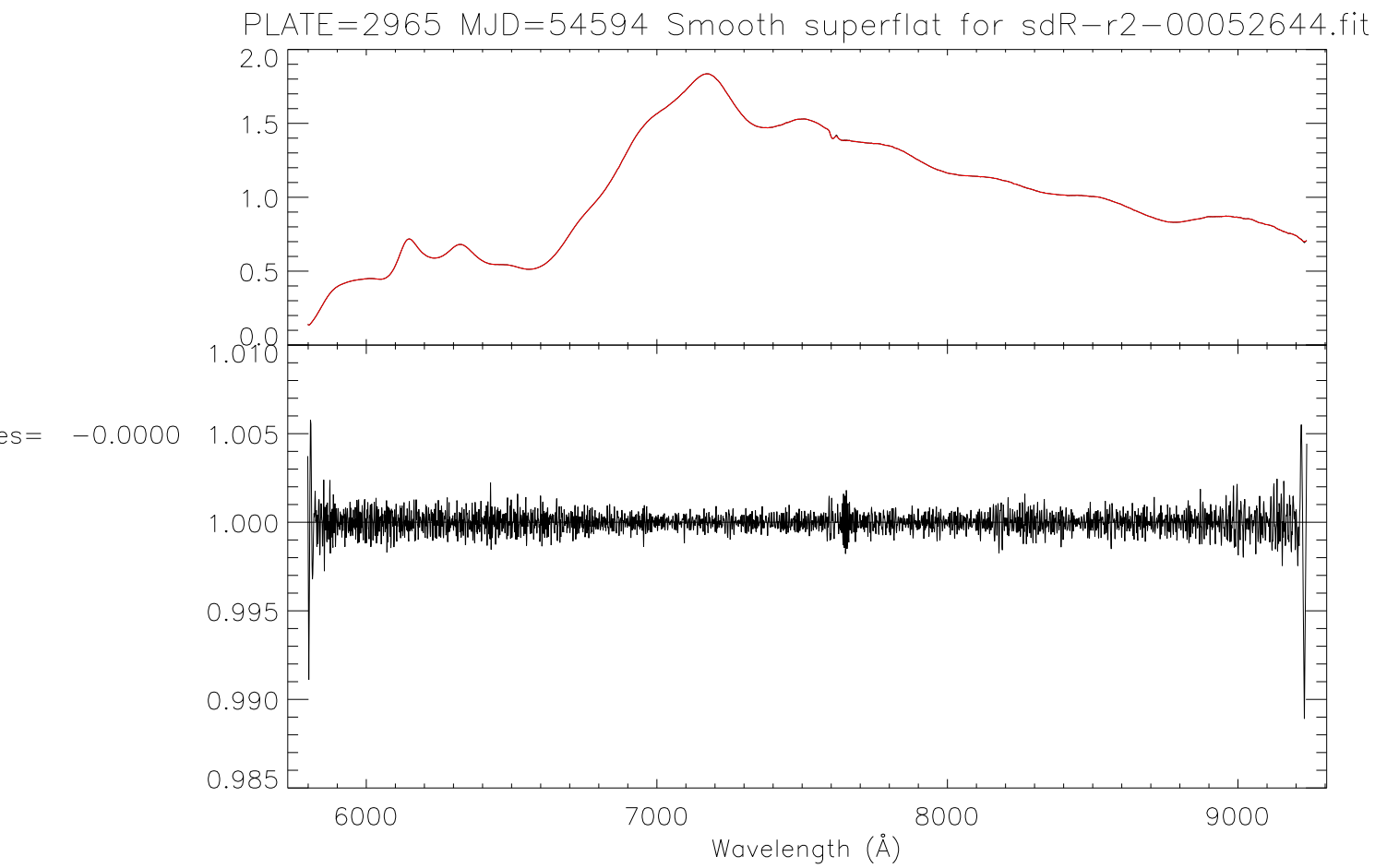

8430.1700
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

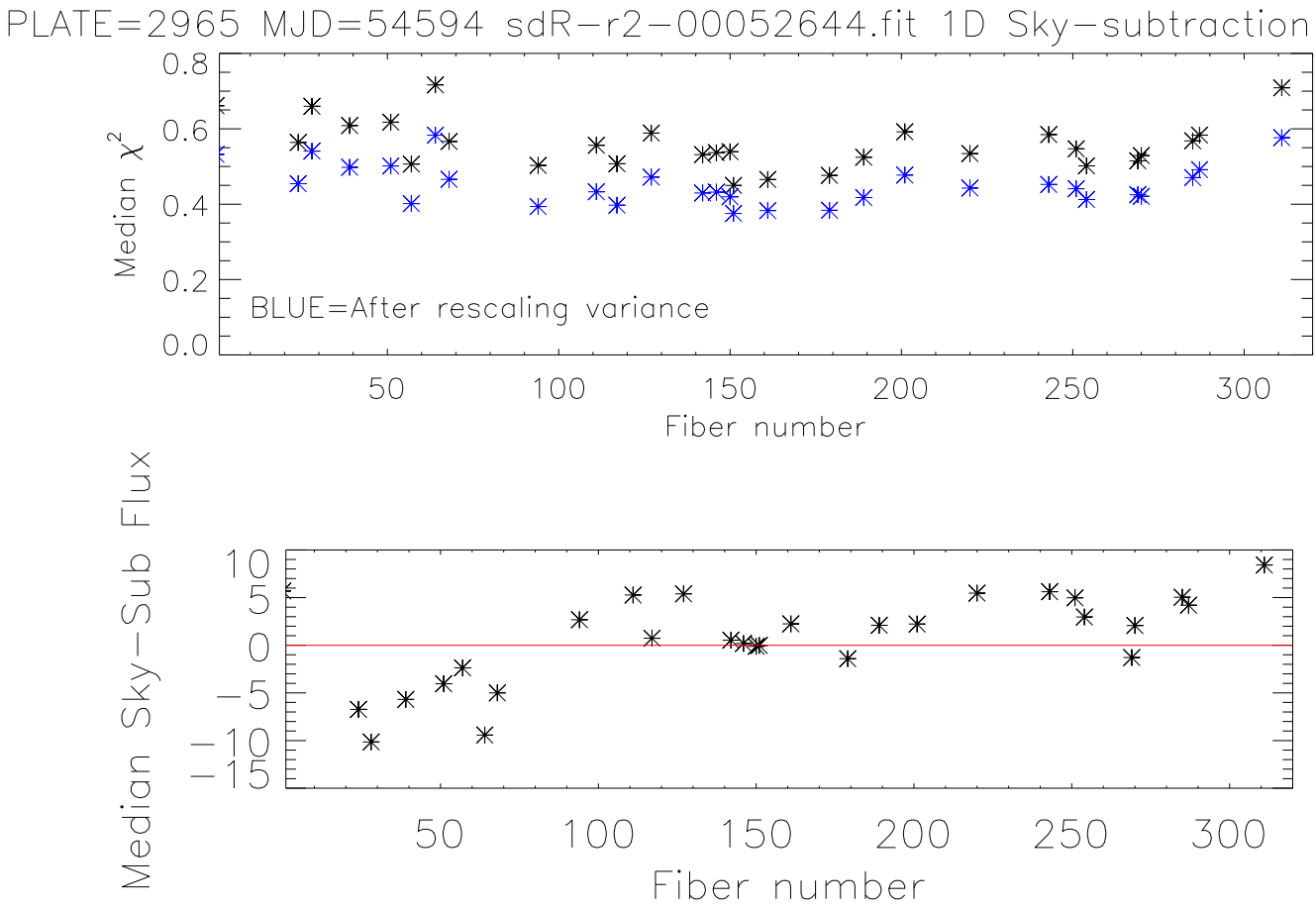

8885.8300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

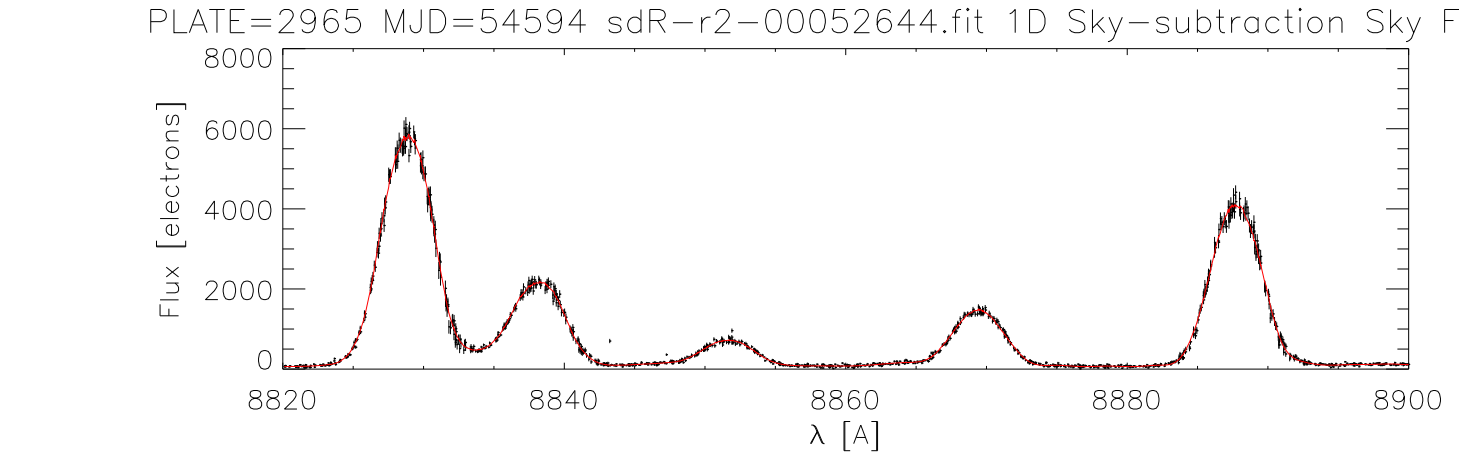

8919.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

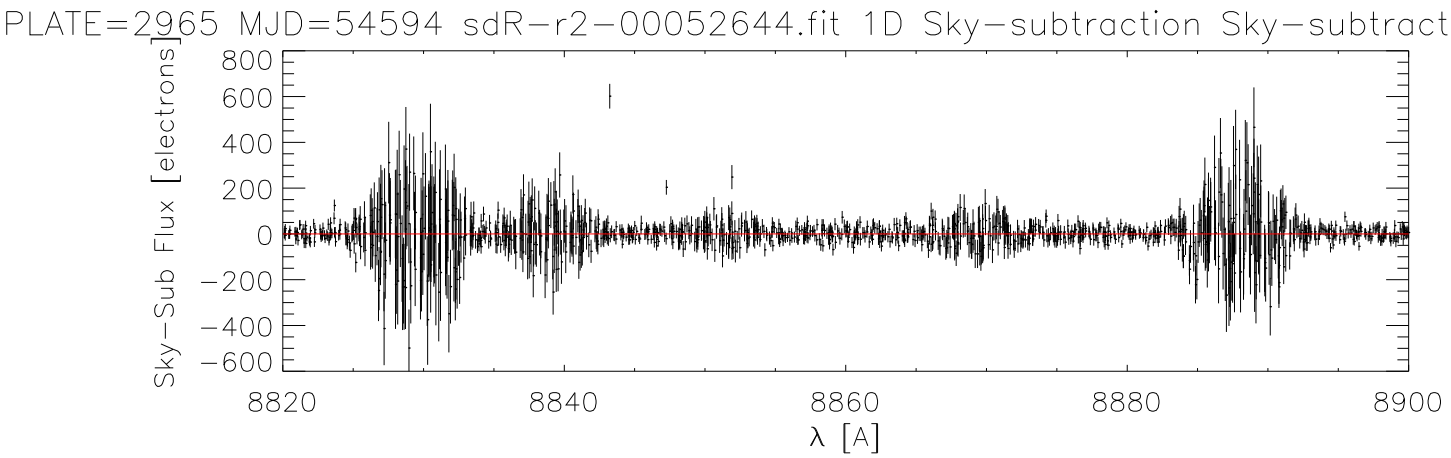

6300.3040
6363.7760
6553.6100
6923.2100
6949.0300
7571.7500
7794.1200
7821.5100
8399.1600
8430.1700
8885.8300
8919.6100
meas − pred, pix
stdev 0.021
extrd 0.23
stdev 0.036
extrd 0.34
stdev 0.041
extrd 0.15
stdev 0.038
extrd 0.15
stdev 0.032
extrd 0.12
stdev 0.024
extrd 0.43
stdev 0.020
extrd 0.22
stdev 0.018
extrd 0.18
stdev 0.023
extrd 0.44
stdev 0.021
extrd 0.46
stdev 0.024
extrd 0.43
stdev 0.018
extrd 0.14

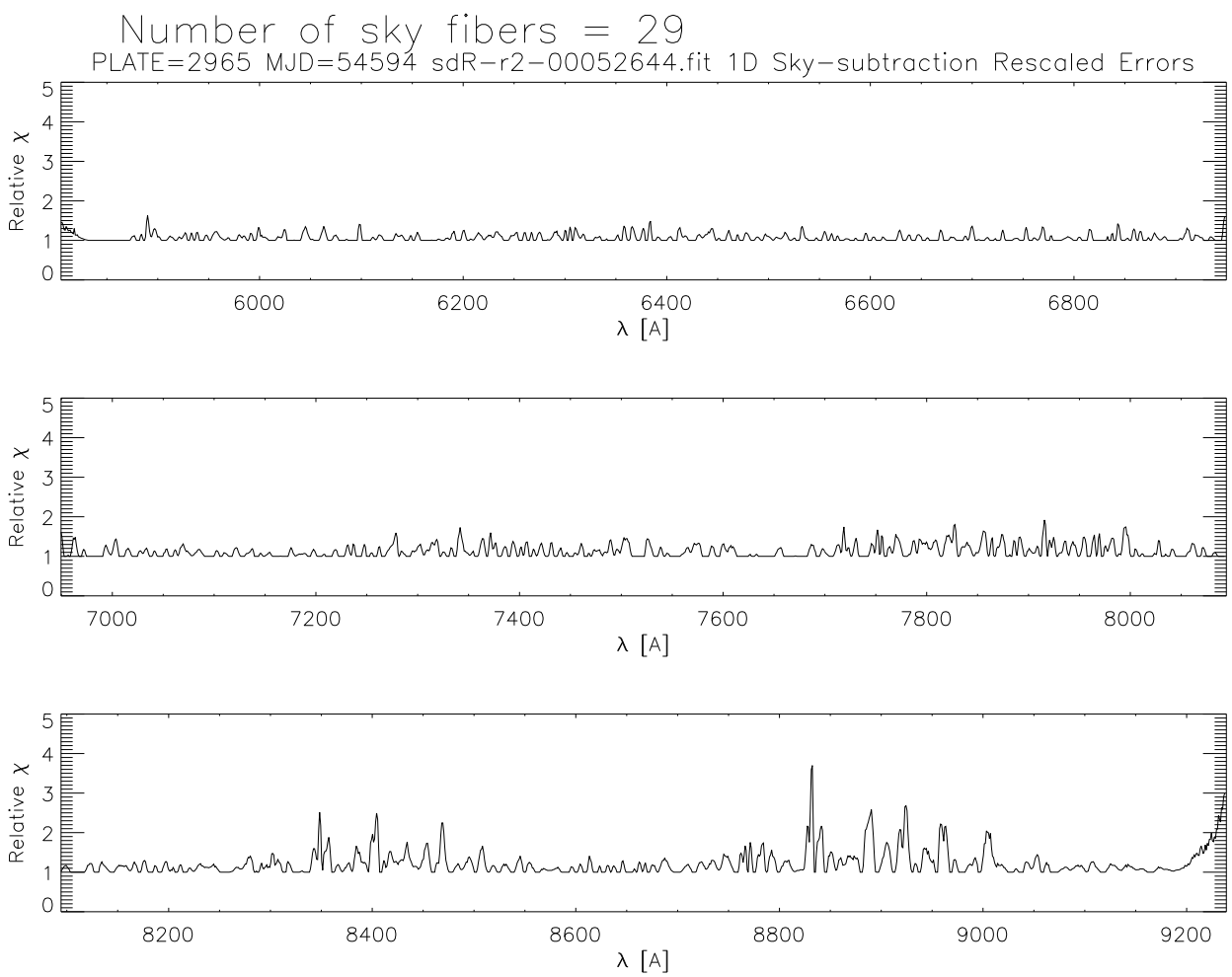

sky shift, pixels
−0.12
−0.14
−0.16
−0.18
−0.20
−0.22
5000
6000
7000
8000
9000
10000

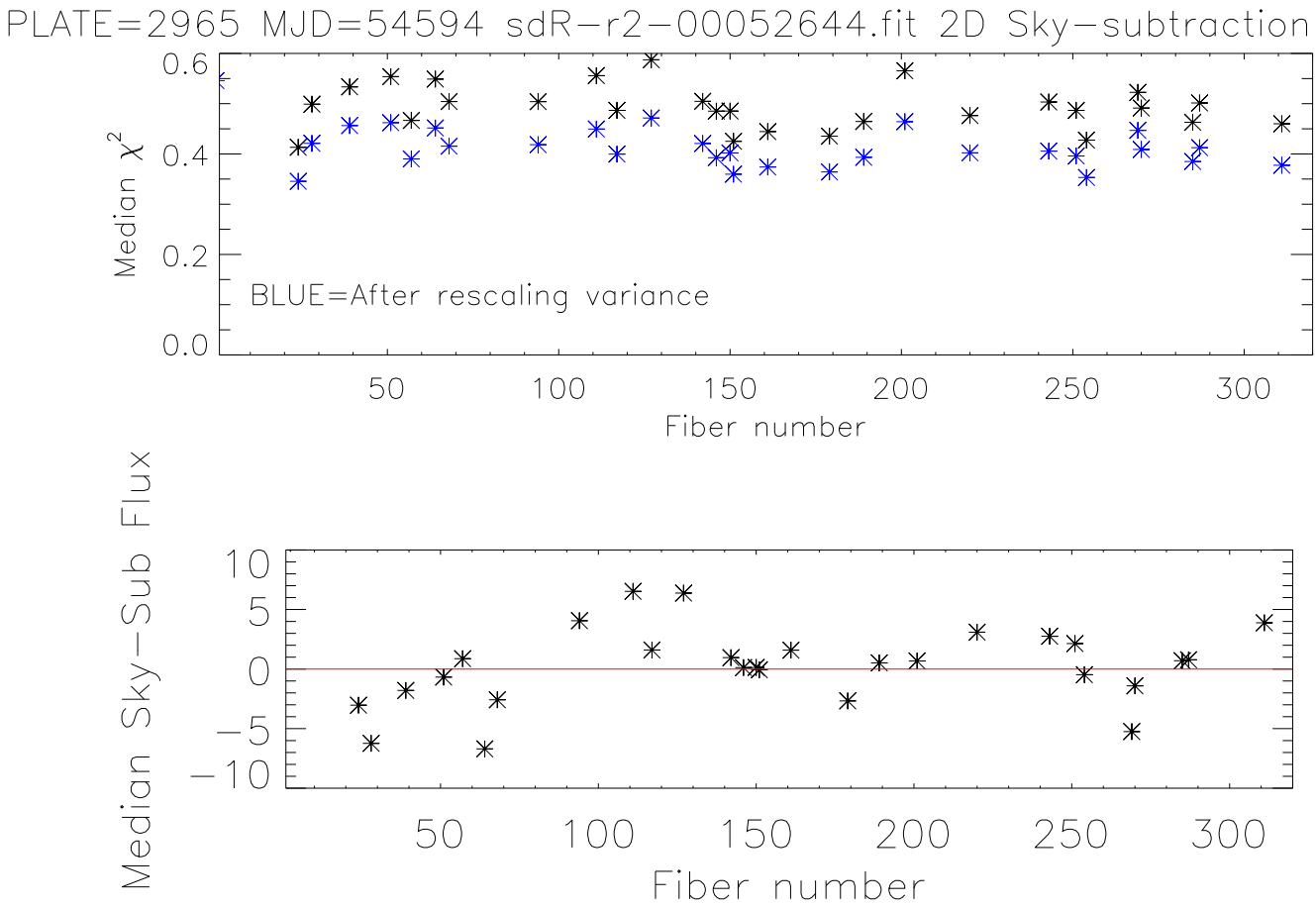

PLATE=2965 MJD=54594 Smooth superflat for sdR-r2-00052644.fit
2.0
1.5
1.0
0.5
0.0
es= -0.0000
1.010
1.005
1.000
0.995
0.990
0.985
6000
7000
8000
9000
Wavelength (Å)

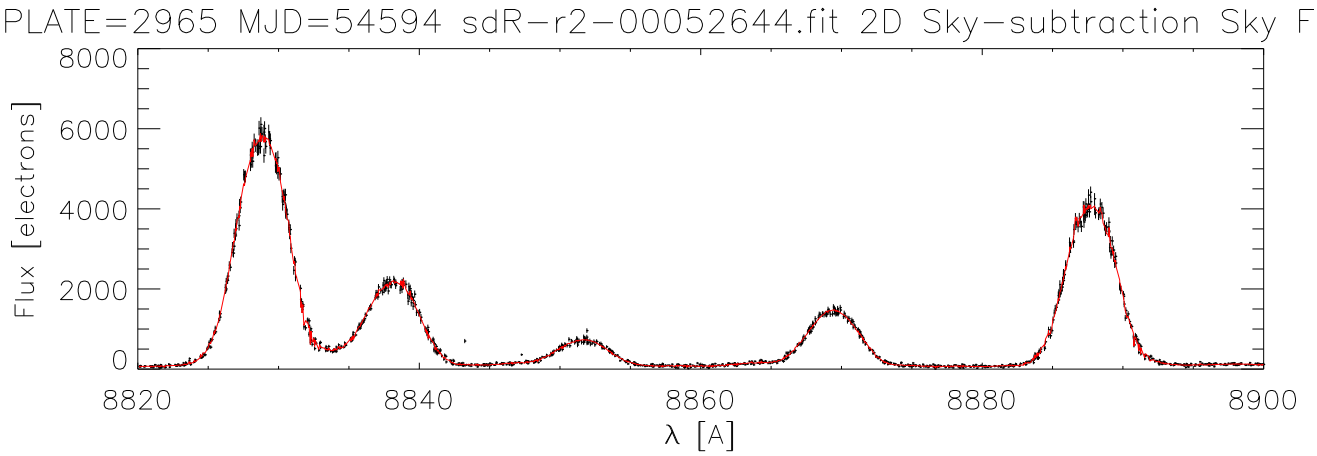

PLATE=2965 MJD=54594 sdR-r2-00052644.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

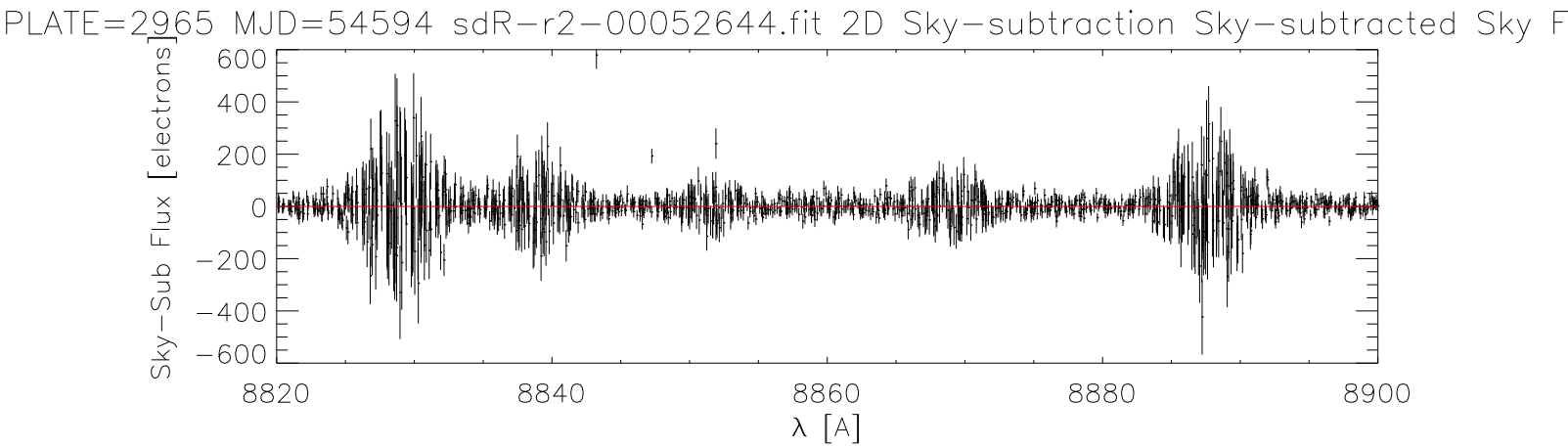

PLATE=2965 MJD=54594 sdR-r2-00052644.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

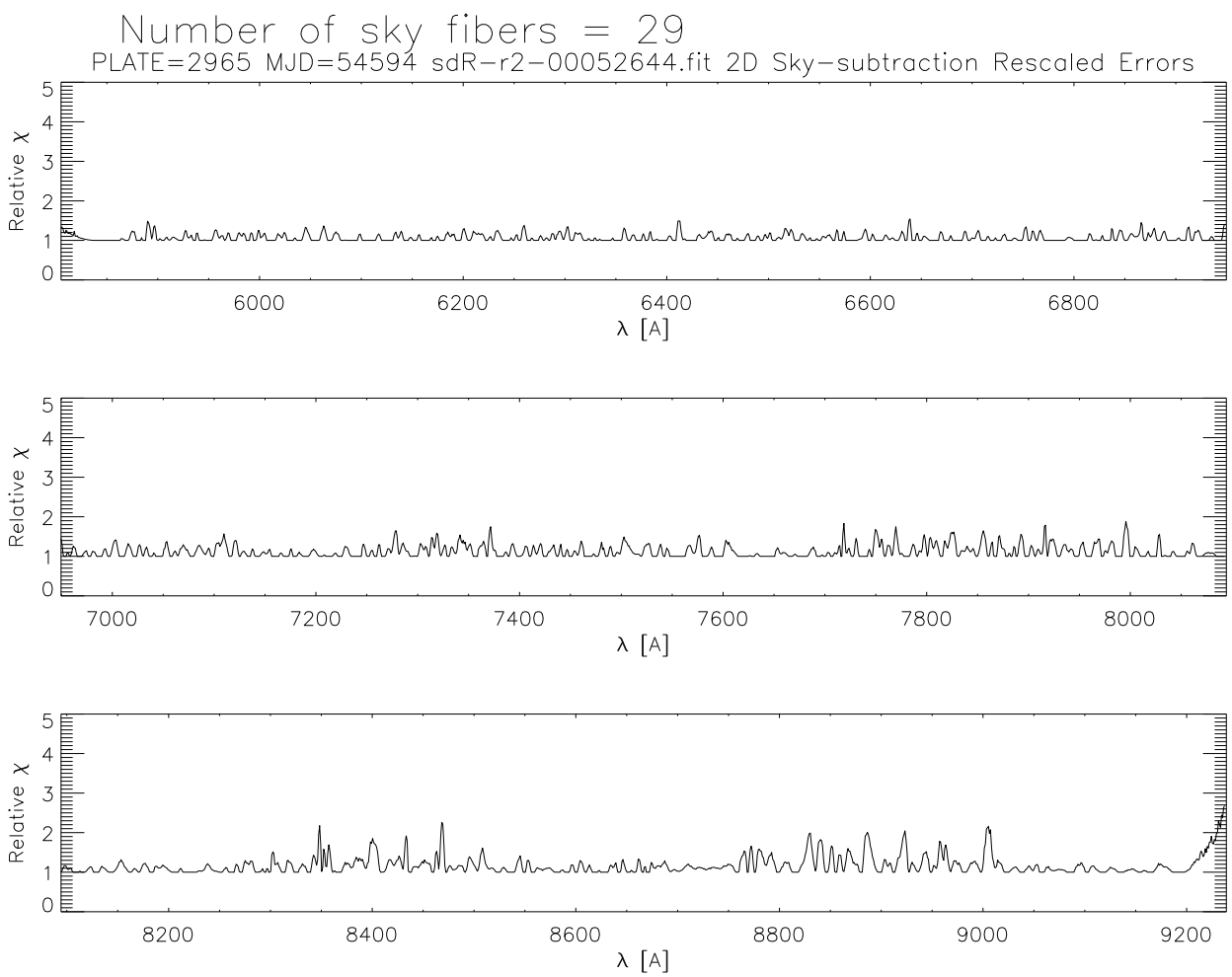

PLATE=2965 MJD=54594 sdR-r2-00052644.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
-400
-600
8820
8840
8860
8880
8900
λ [A]

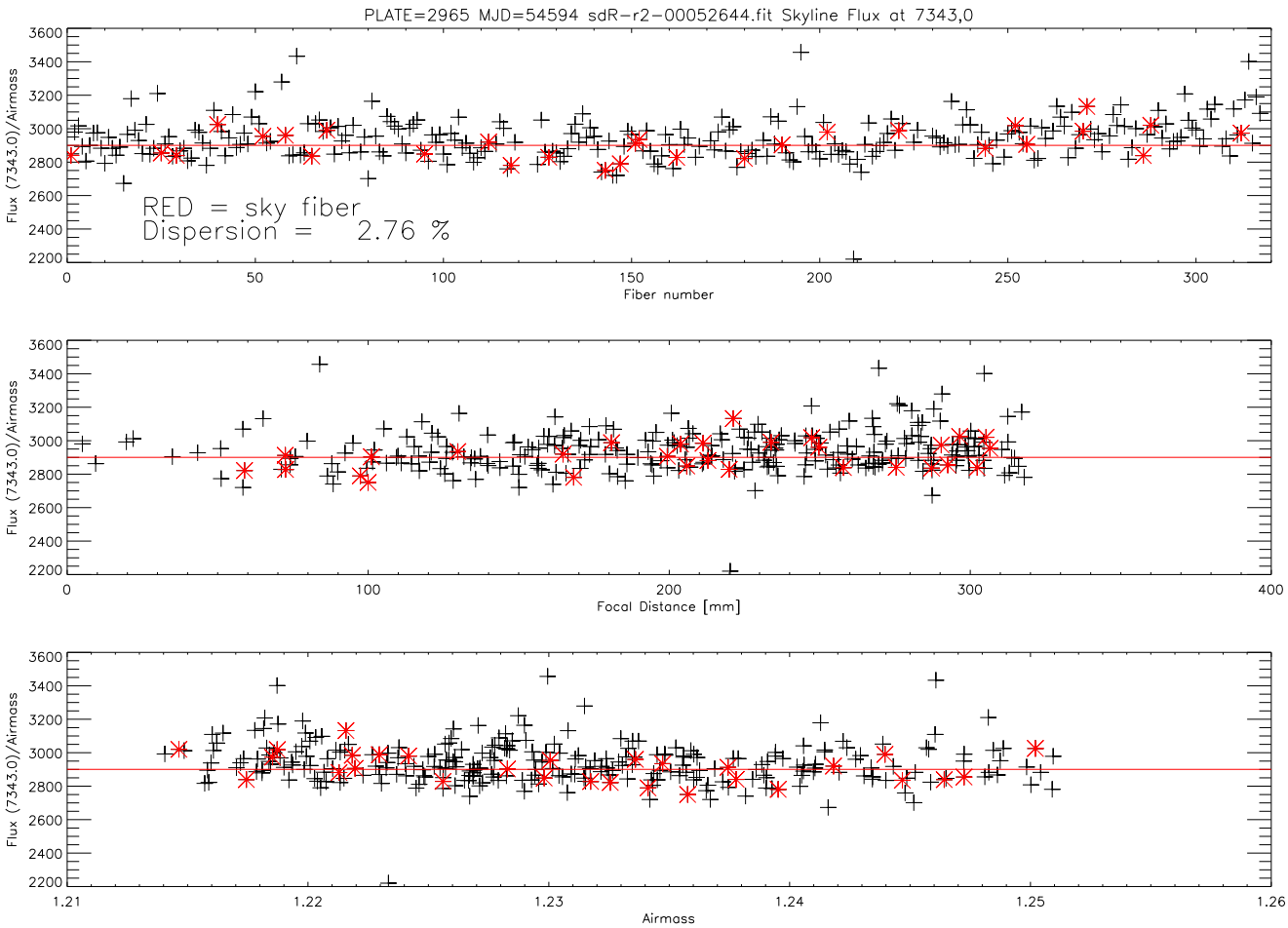

Number of sky fibers = 29
PLATE=2965 MJD=54594 sdR-r2-00052644.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

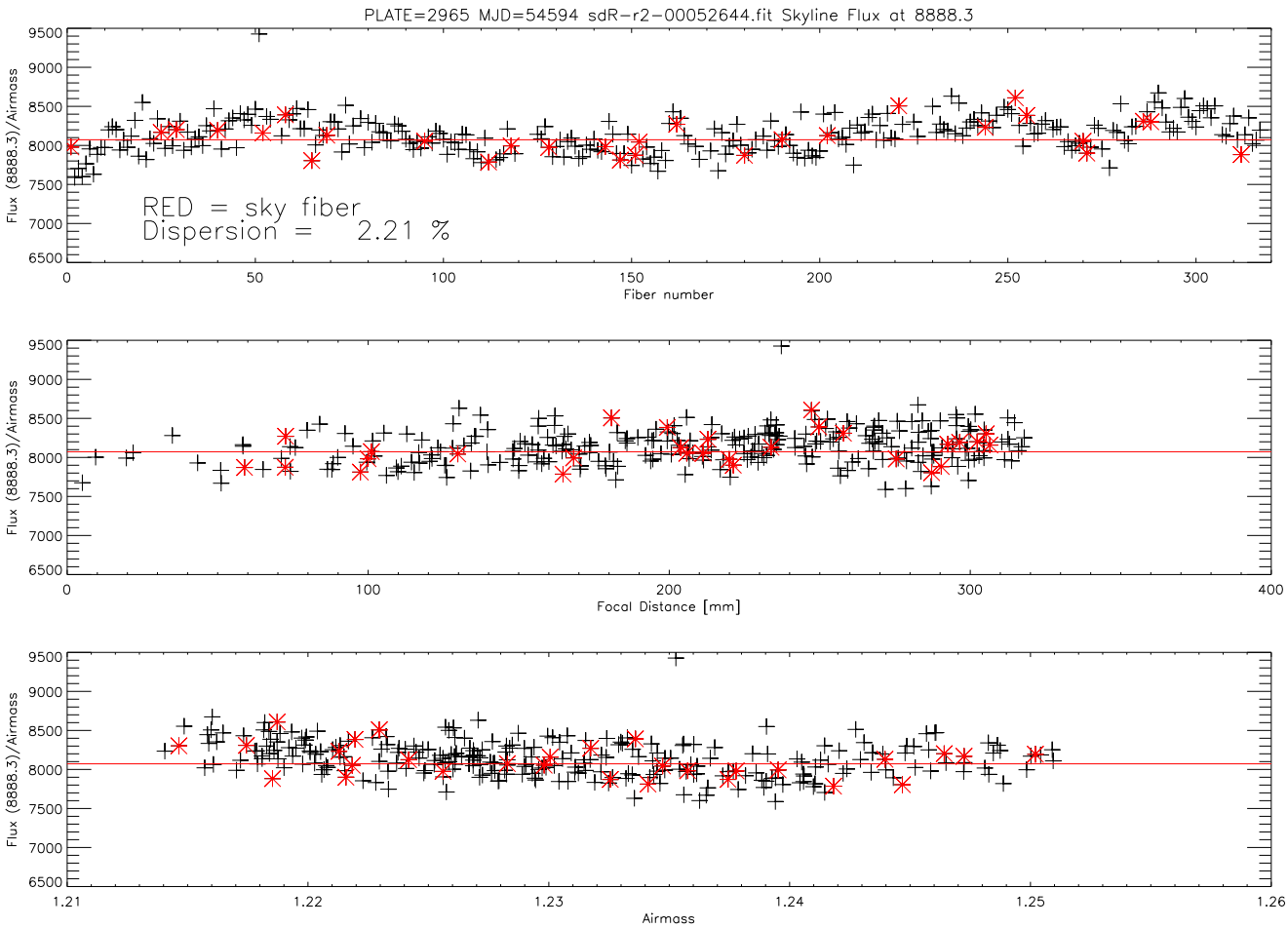

PLATE=2965 MJD=54594 sdR-r2-00052644.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

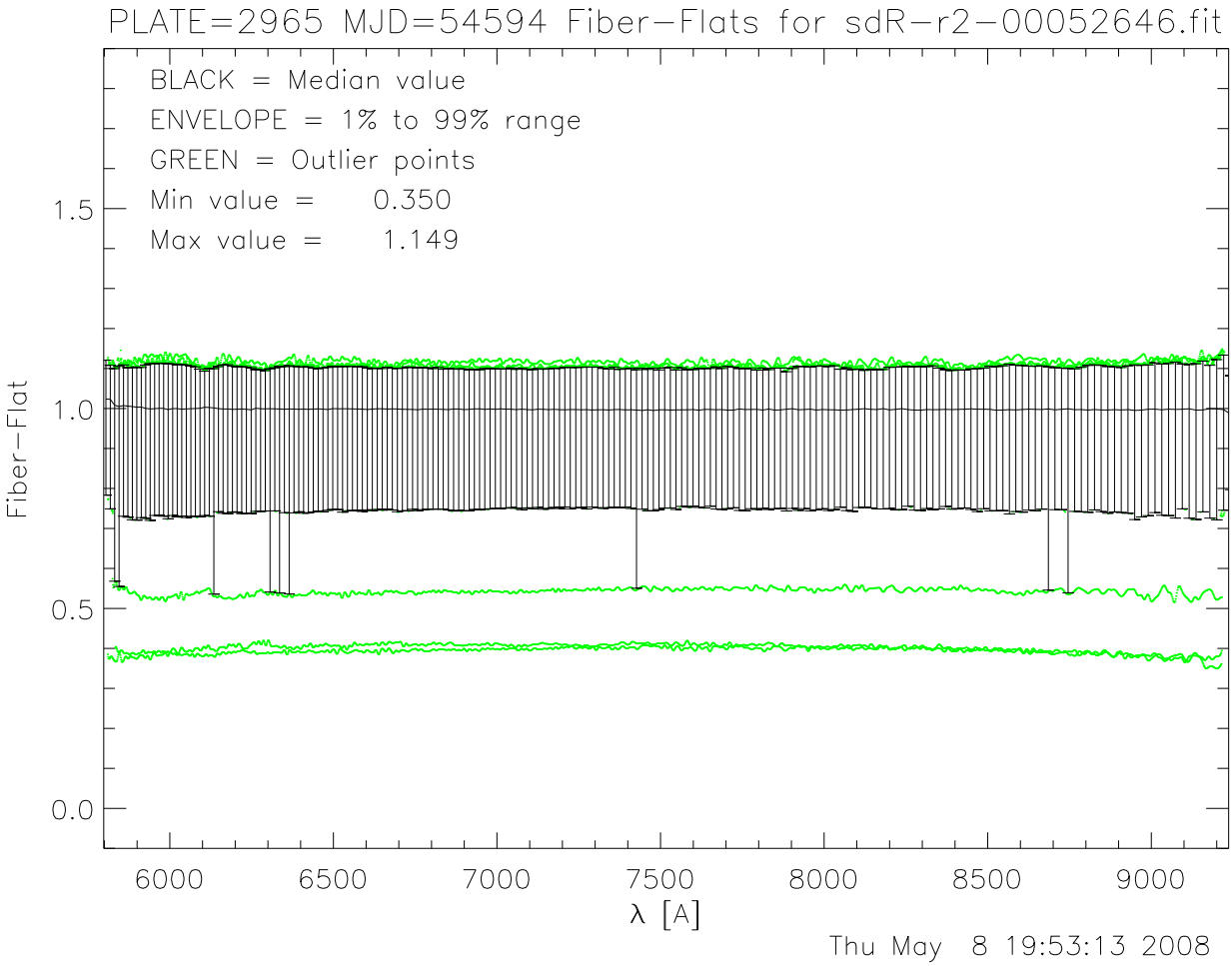

PLATE=2965 MJD=54594 sdR-r2-00052644.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

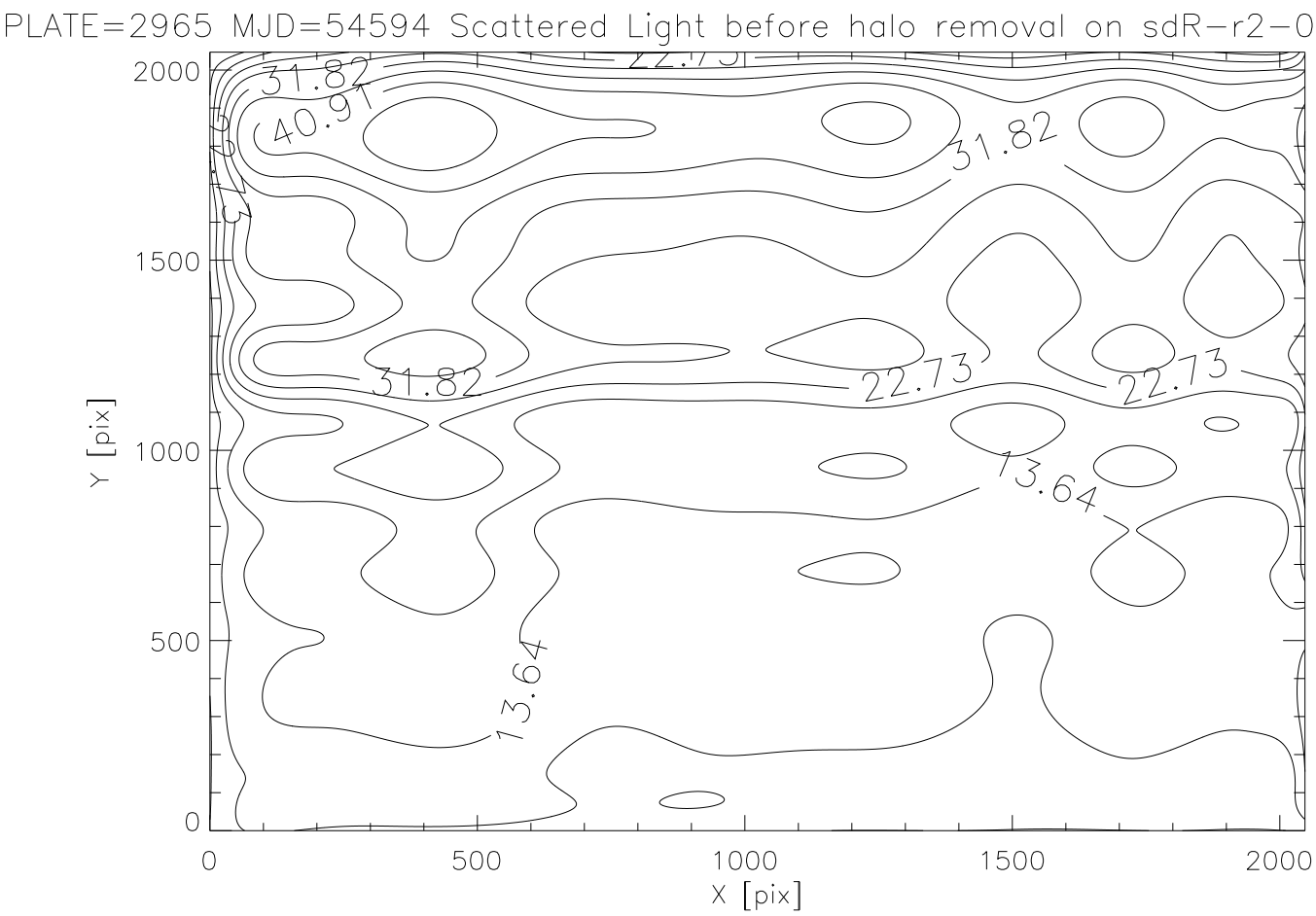

PLATE=2965 MJD=54594 sdR-r2-00052644.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
-600
8820
8840
8860
8880
8900
λ [A]

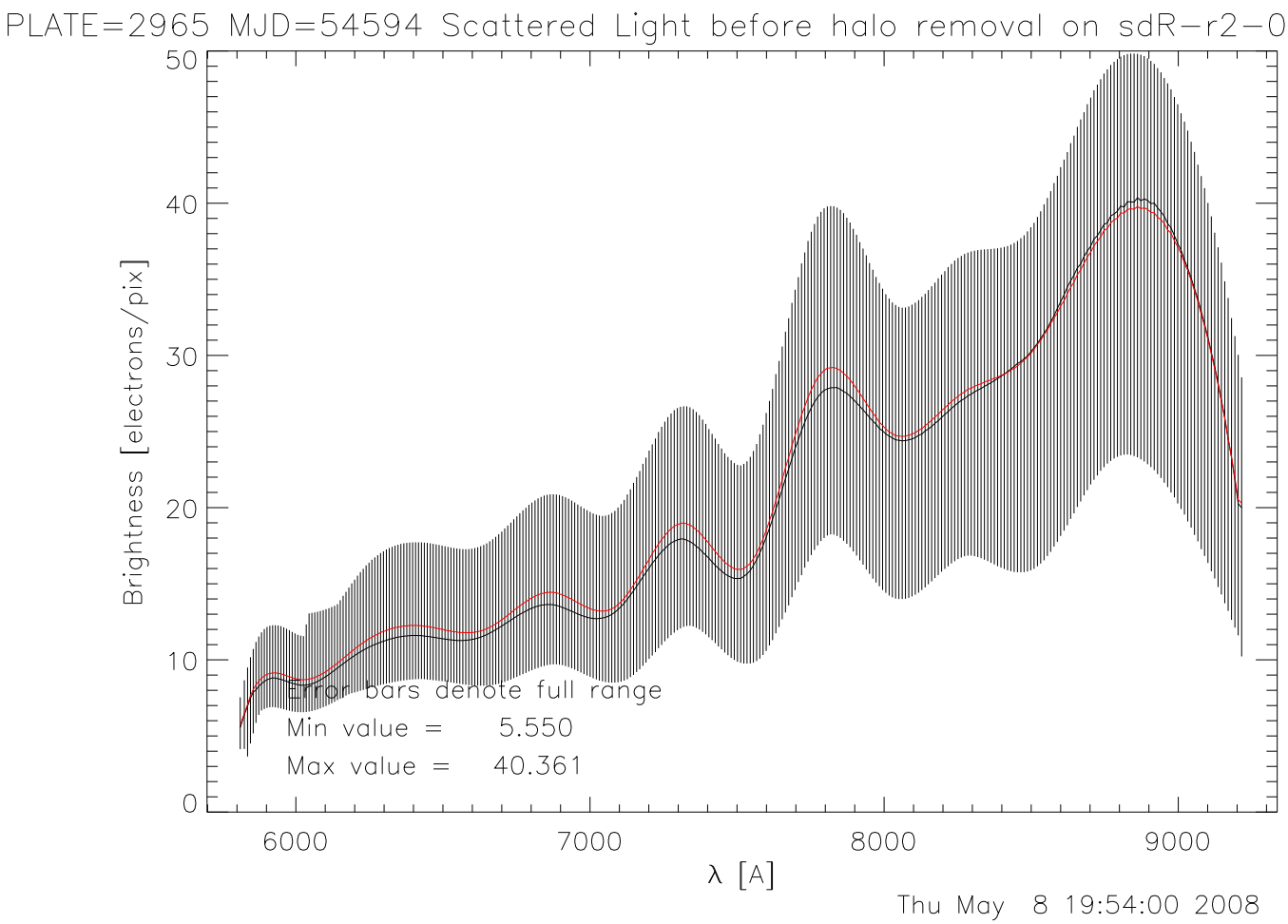

Number of sky fibers = 29
PLATE=2965 MJD=54594 sdR-r2-00052644.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

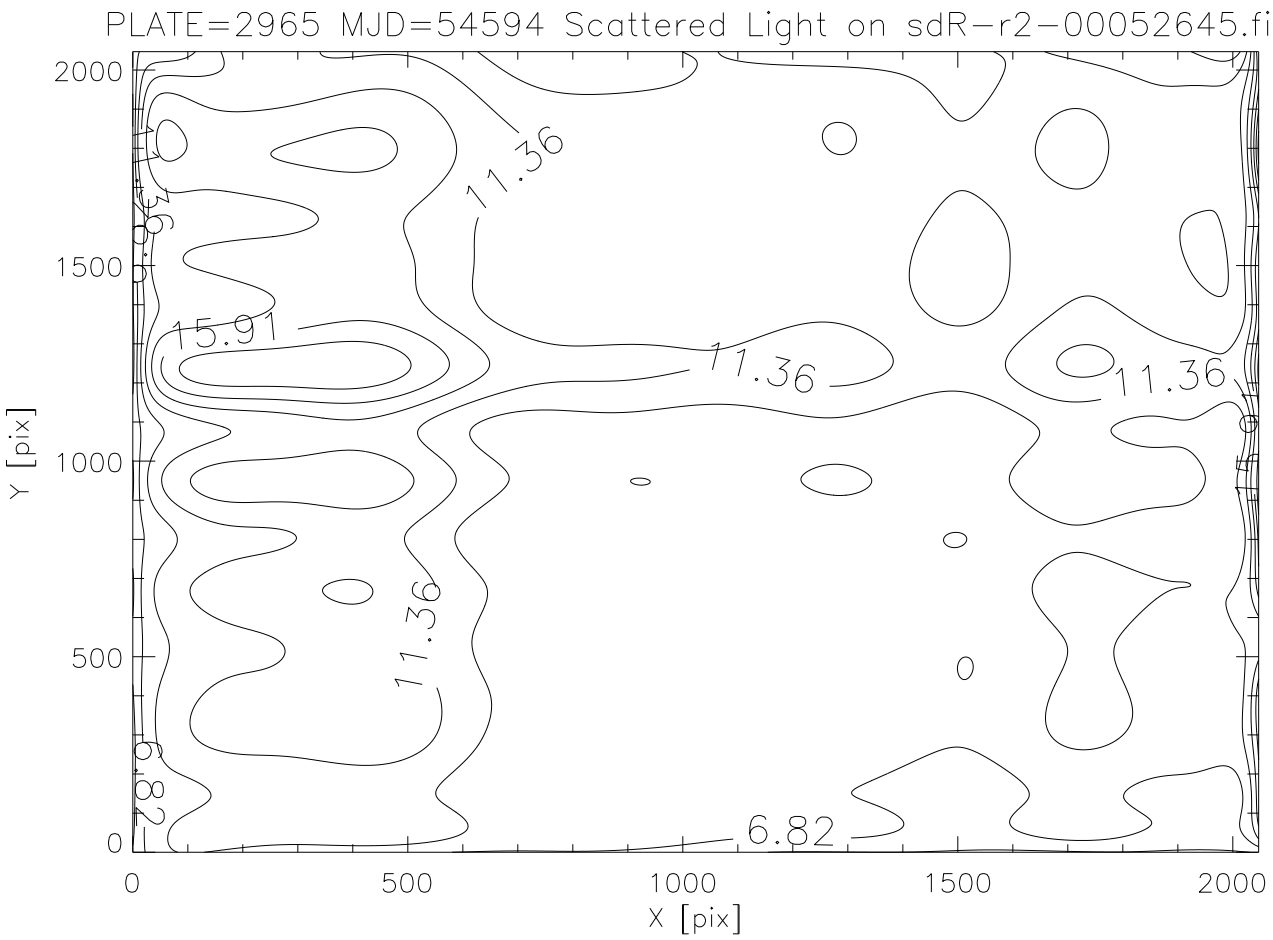

PLATE=2965 MJD=54594 sdR-r2-00052644.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.76 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

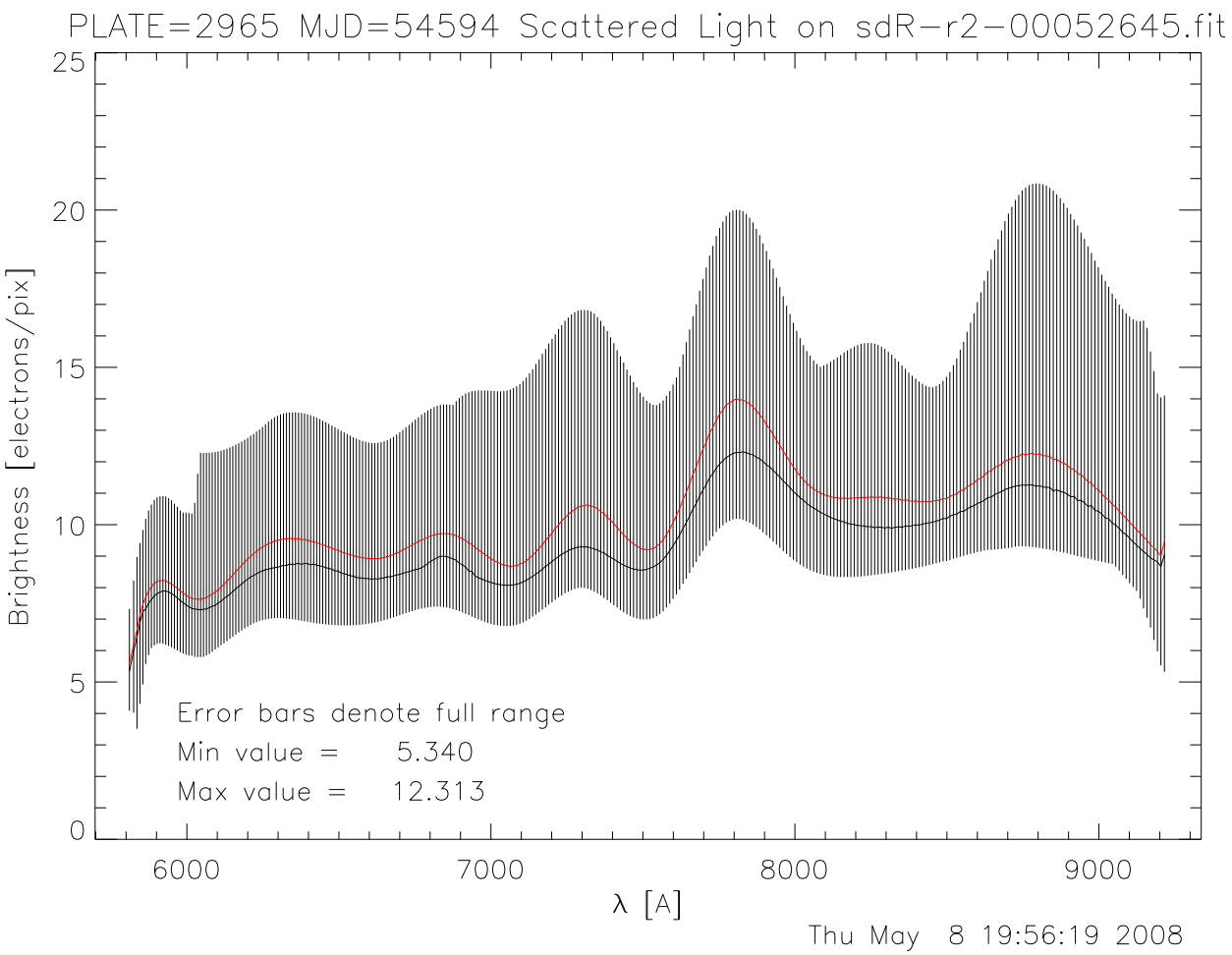

PLATE=2965 MJD=54594 sdR-r2-00052644.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.21 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

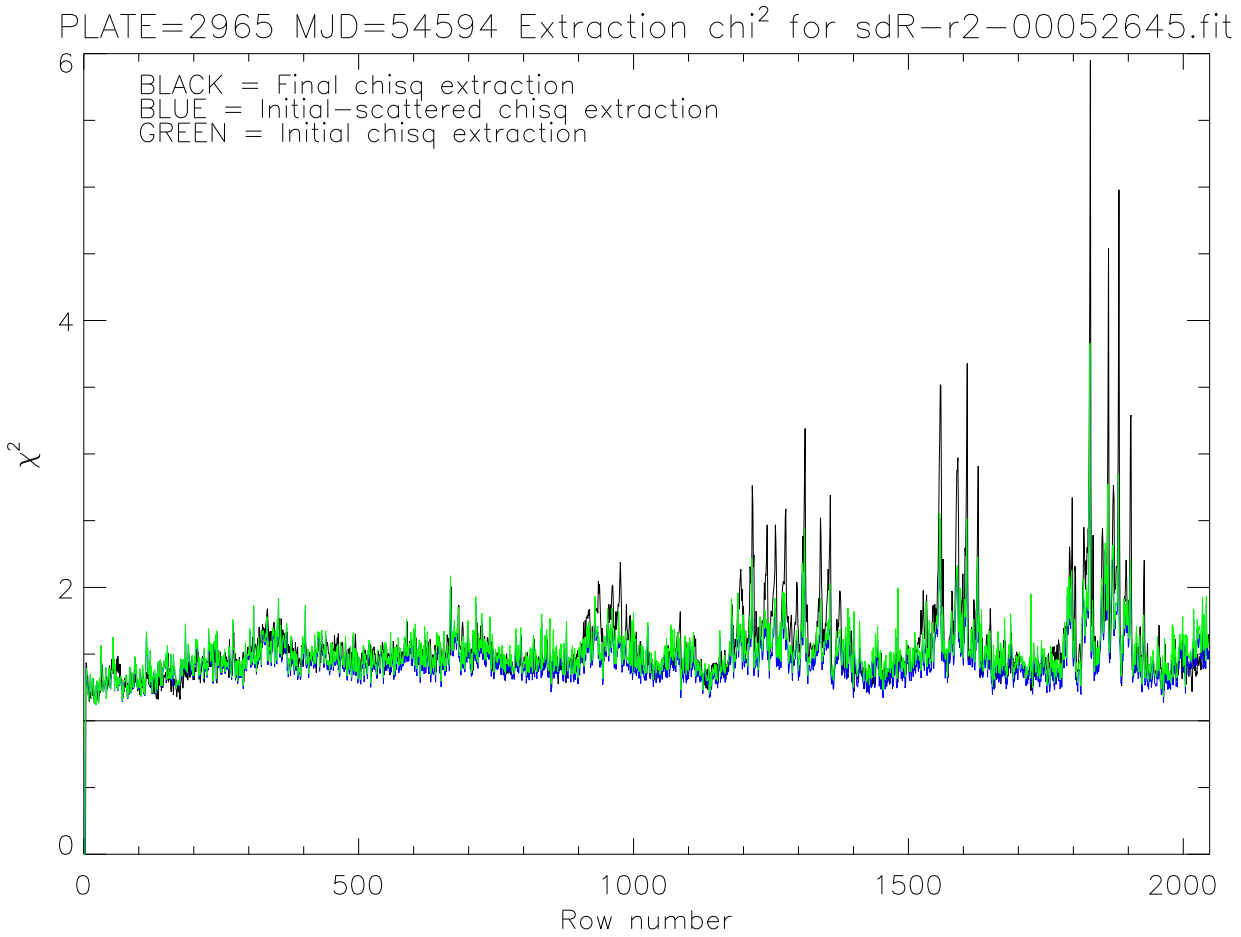

PLATE=2965 MJD=54594 Fiber−Flats for sdR−r2−00052646.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.350
Max value = 1.149
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Thu May 8 19:53:13 2008

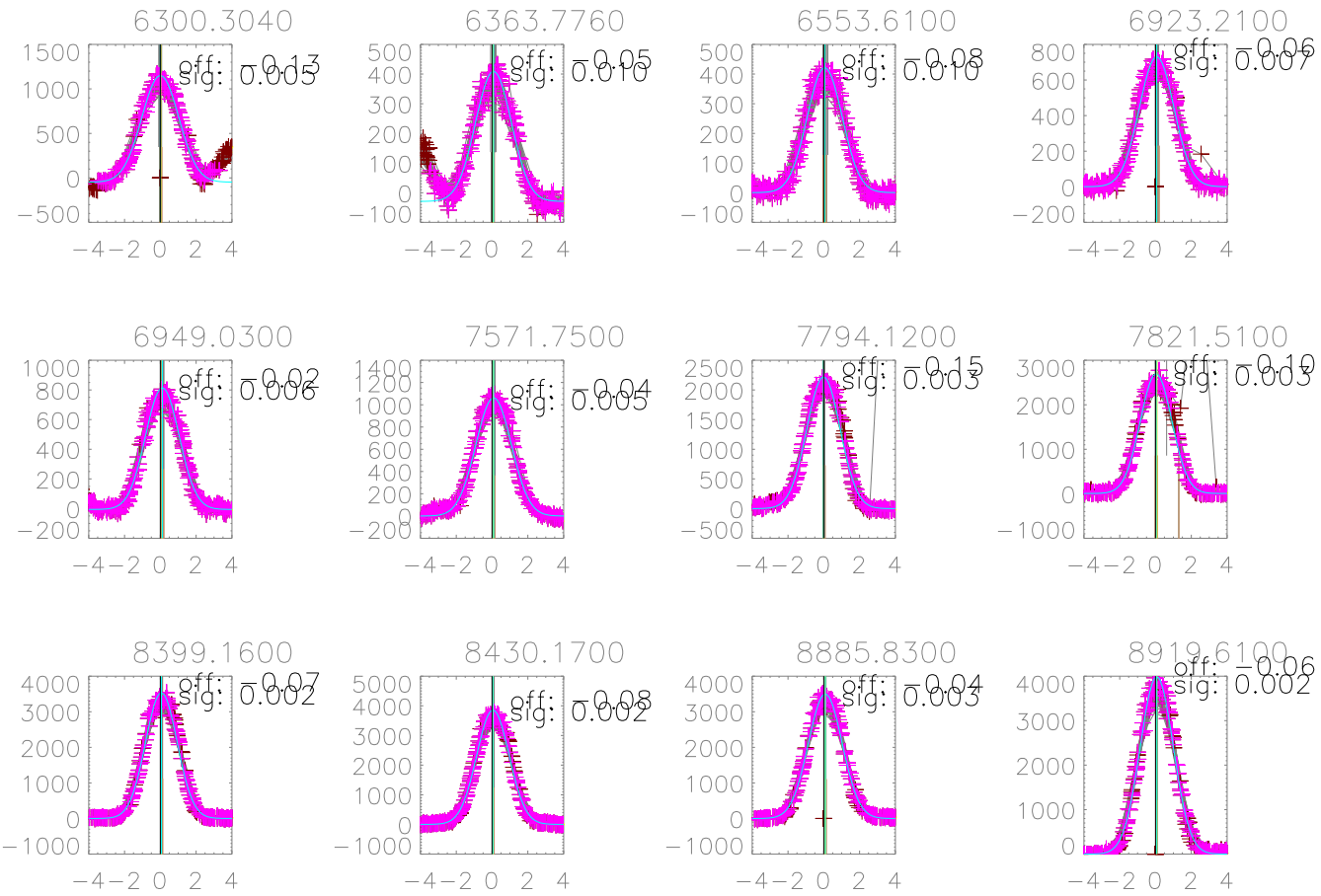

PLATE=2965 MJD=54594 Scattered Light before halo removal on sdR−r2−00052645.fi
31.82
40.91
31.82
31.82
22.73
22.73
13.64
13.64
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

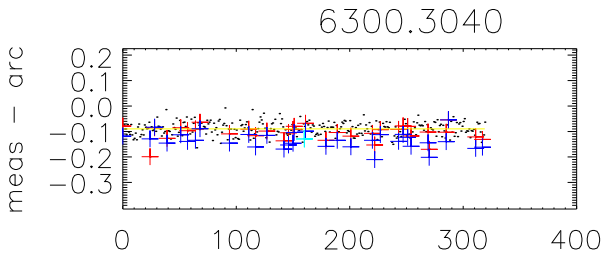

PLATE=2965 MJD=54594 Scattered Light before halo removal on sdR-r2-00052645.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.550
Max value = 40.361
Thu May 8 19:54:00 2008

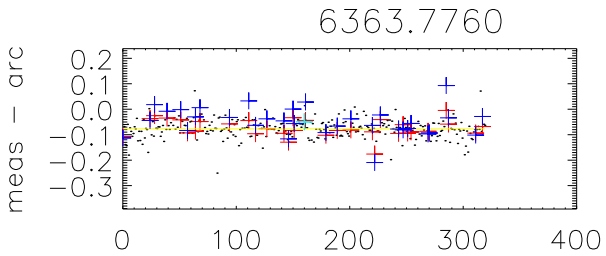

PLATE=2965 MJD=54594 Scattered Light on sdR-r2-00052645.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
15.91
11.36
6.82
0

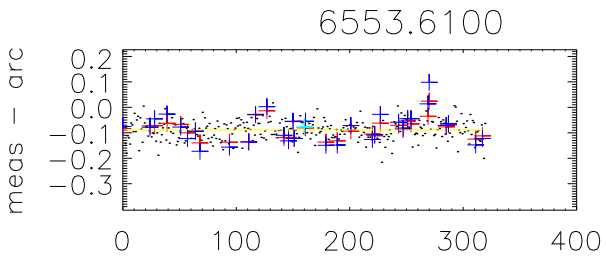

PLATE=2965 MJD=54594 Scattered Light on sdR-r2-00052645.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.340
Max value = 12.313
Thu May 8 19:56:19 2008

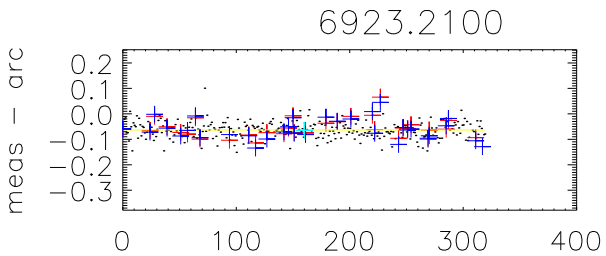

PLATE=2965 MJD=54594 Extraction chi^2 for sdR−r2−00052645.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
0
500
1000
1500
2000
Row number

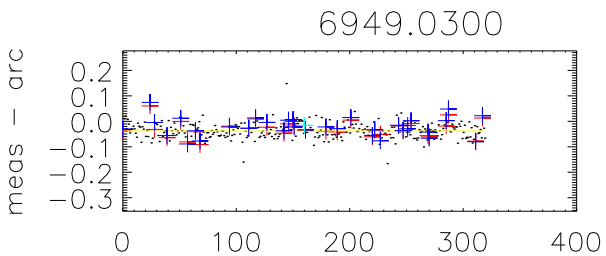

6300.3040
off: −0.13
sig: 0.005
6363.7760
off: −0.05
sig: 0.010
6553.6100
off: −0.08
sig: 0.010
6923.2100
off: −0.06
sig: 0.007
6949.0300
off: −0.02
sig: 0.006
7571.7500
off: −0.04
sig: 0.005
7794.1200
off: −0.15
sig: 0.003
7821.5100
off: −0.10
sig: 0.003
8399.1600
off: −0.07
sig: 0.002
8430.1700
off: −0.08
sig: 0.002
8885.8300
off: −0.04
sig: 0.003
8919.6100
off: −0.06
sig: 0.002

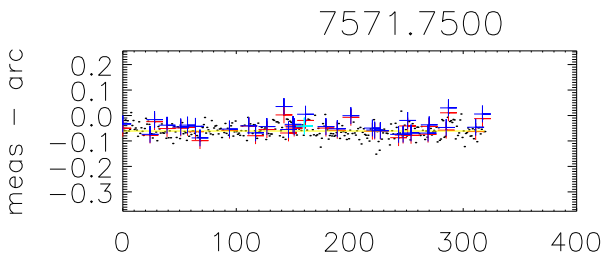

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

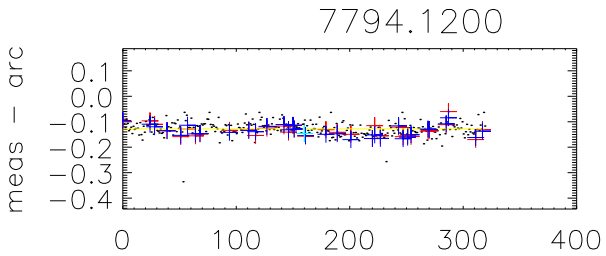

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

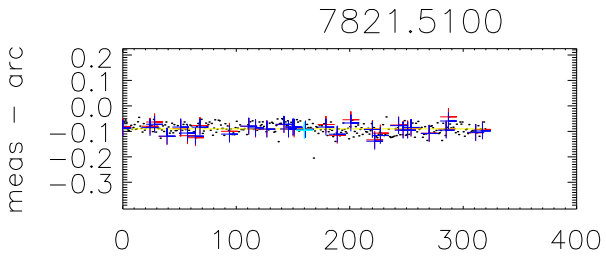

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

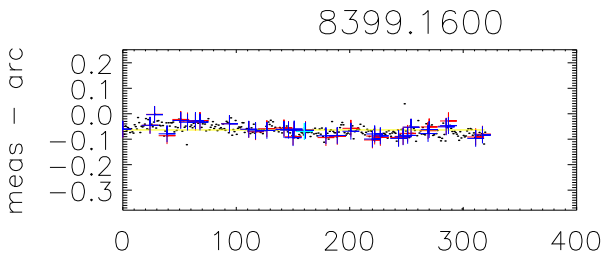

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

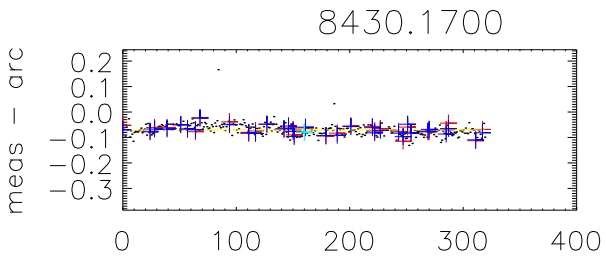

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

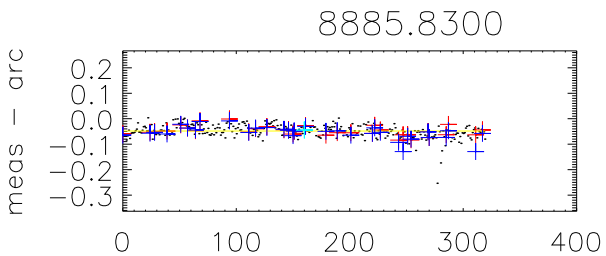

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

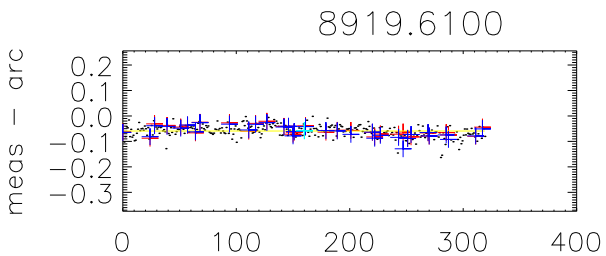

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

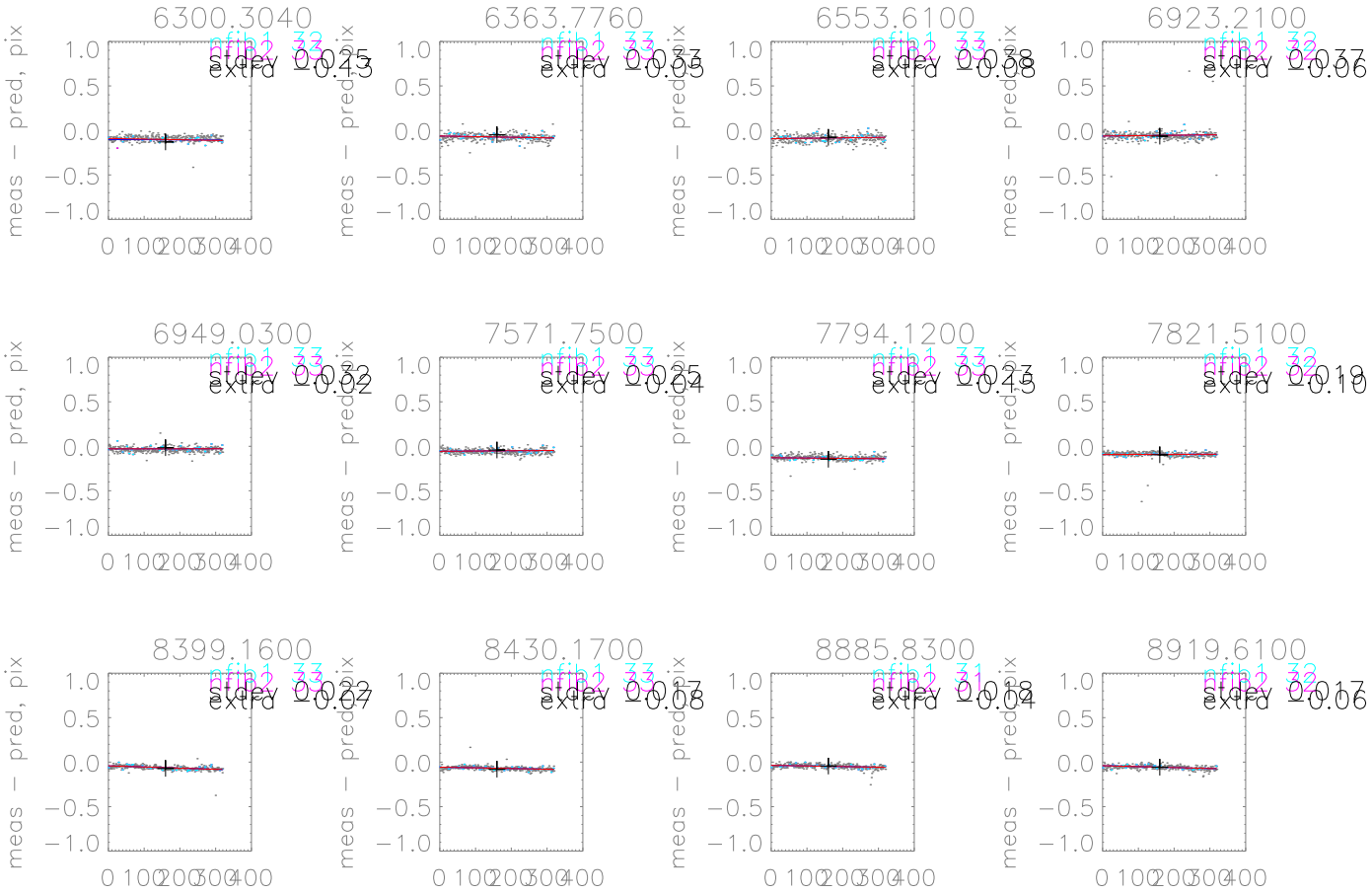

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

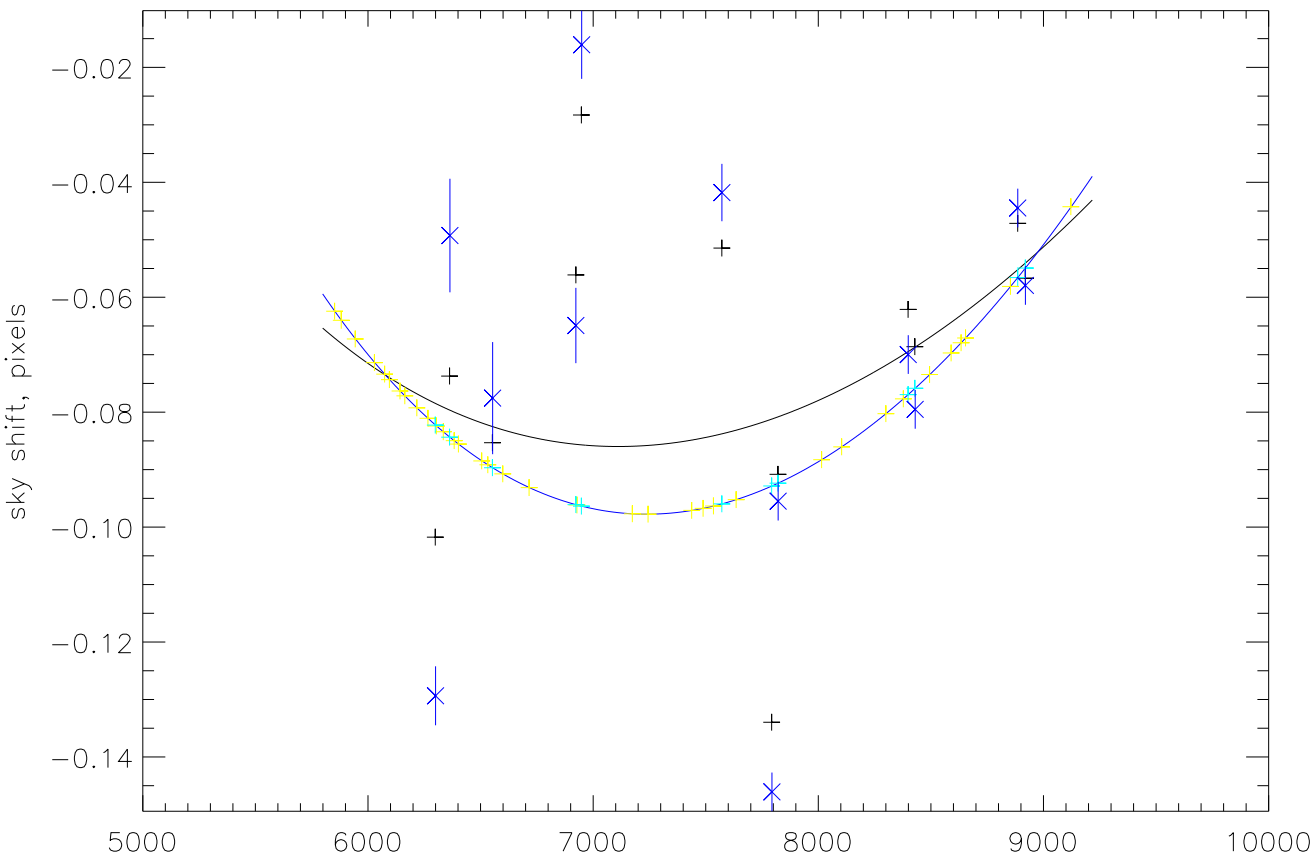

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

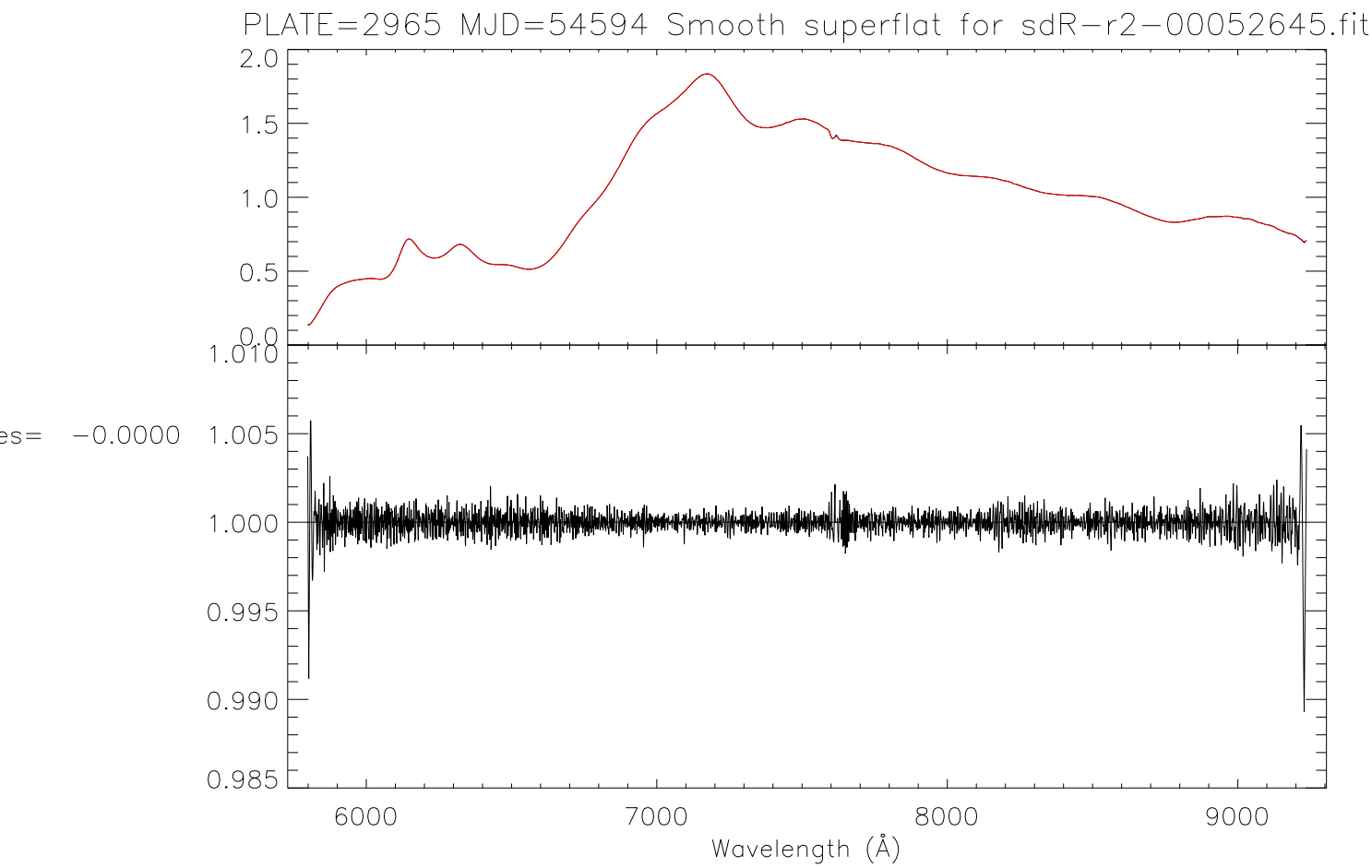

8430.1700
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

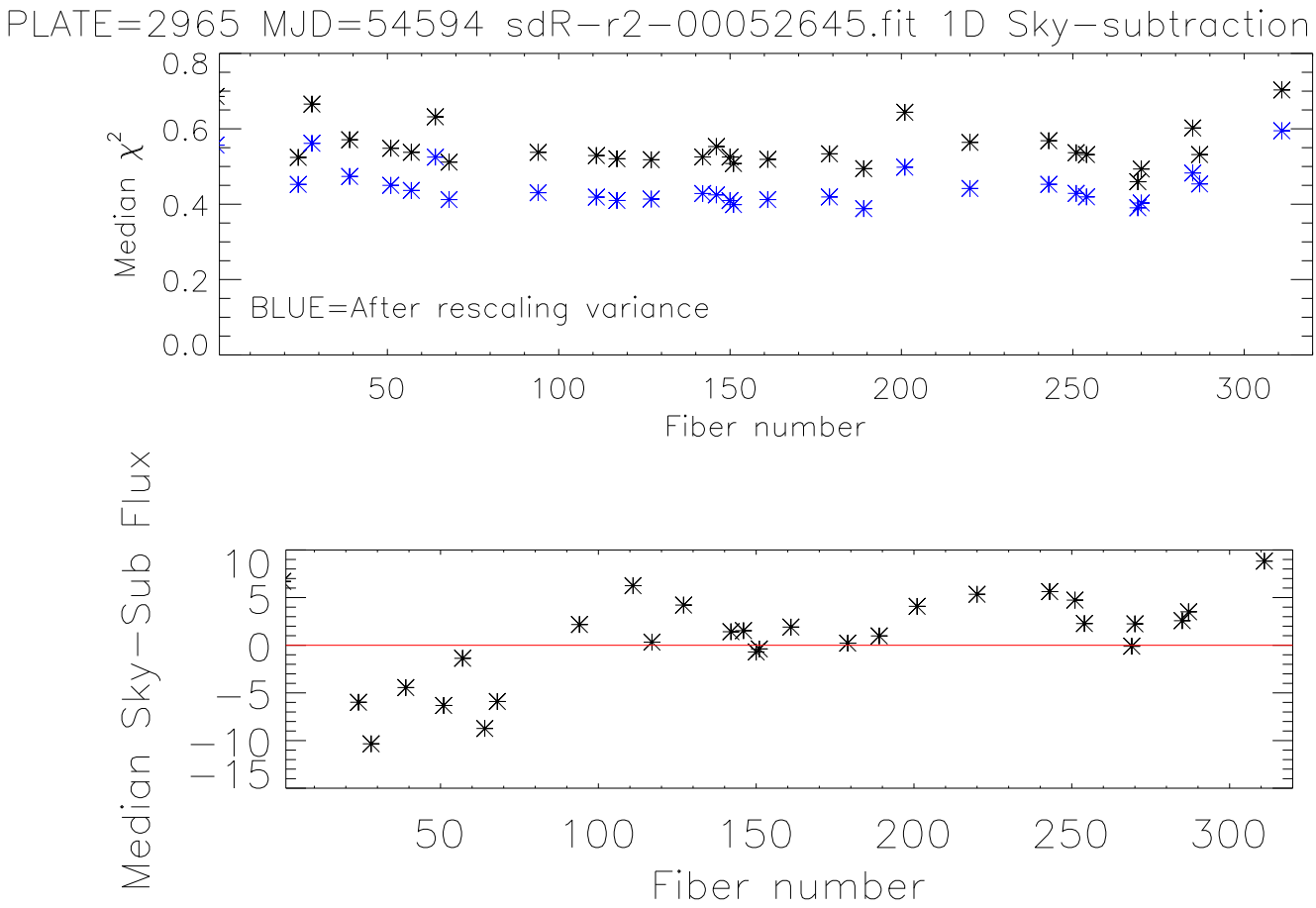

8885.8300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

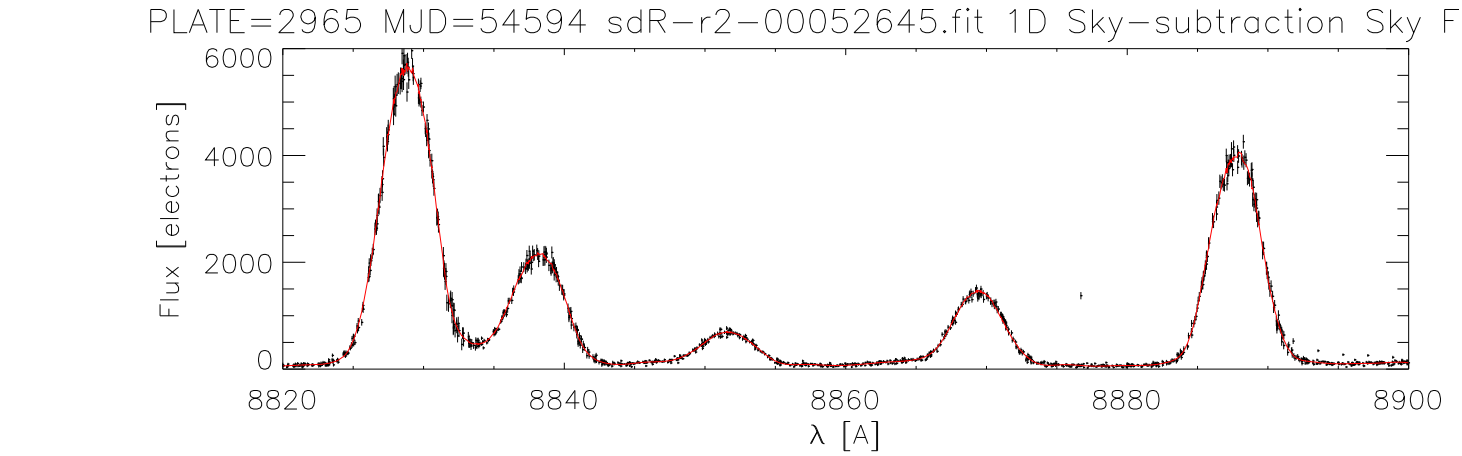

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

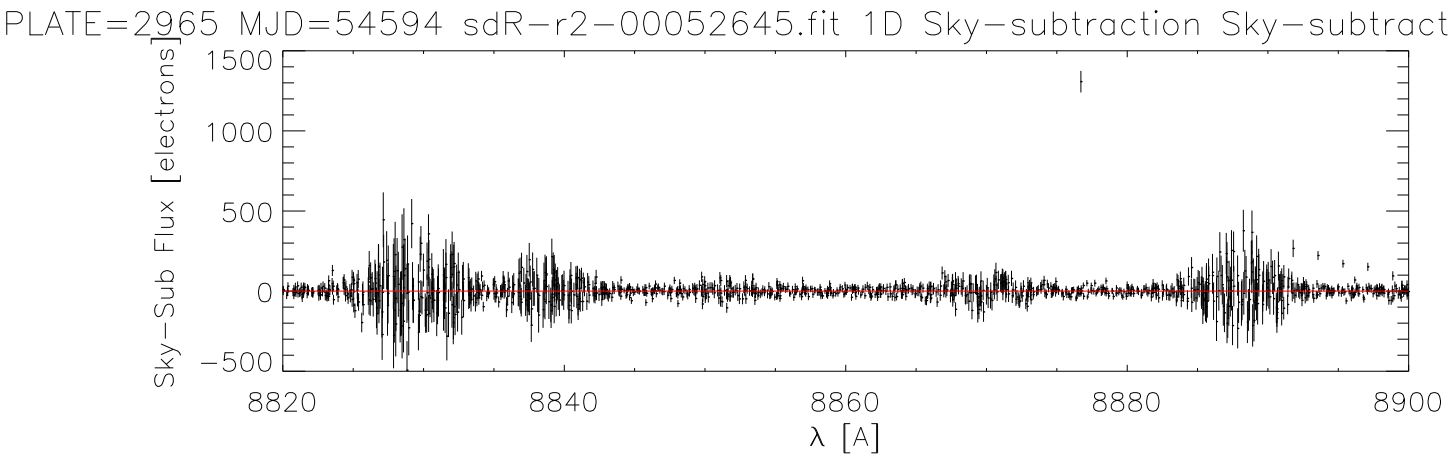

6300.3040
6363.7760
6553.6100
6923.2100
6949.0300
7571.7500
7794.1200
7821.5100
8399.1600
8430.1700
8885.8300
8919.6100
meas − pred, pix
mfib1 33
mfib2 32
stdev 0.025
extrd −0.03
stdev 0.033
extrd −0.05
stdev 0.038
extrd −0.08
stdev 0.037
extrd −0.06
stdev 0.032
extrd −0.02
stdev 0.025
extrd −0.04
stdev 0.023
extrd −0.03
stdev 0.019
extrd −0.10
stdev 0.022
extrd −0.07
stdev 0.017
extrd −0.08
mfib1 31
stdev 0.018
extrd −0.04
stdev 0.017
extrd −0.06
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

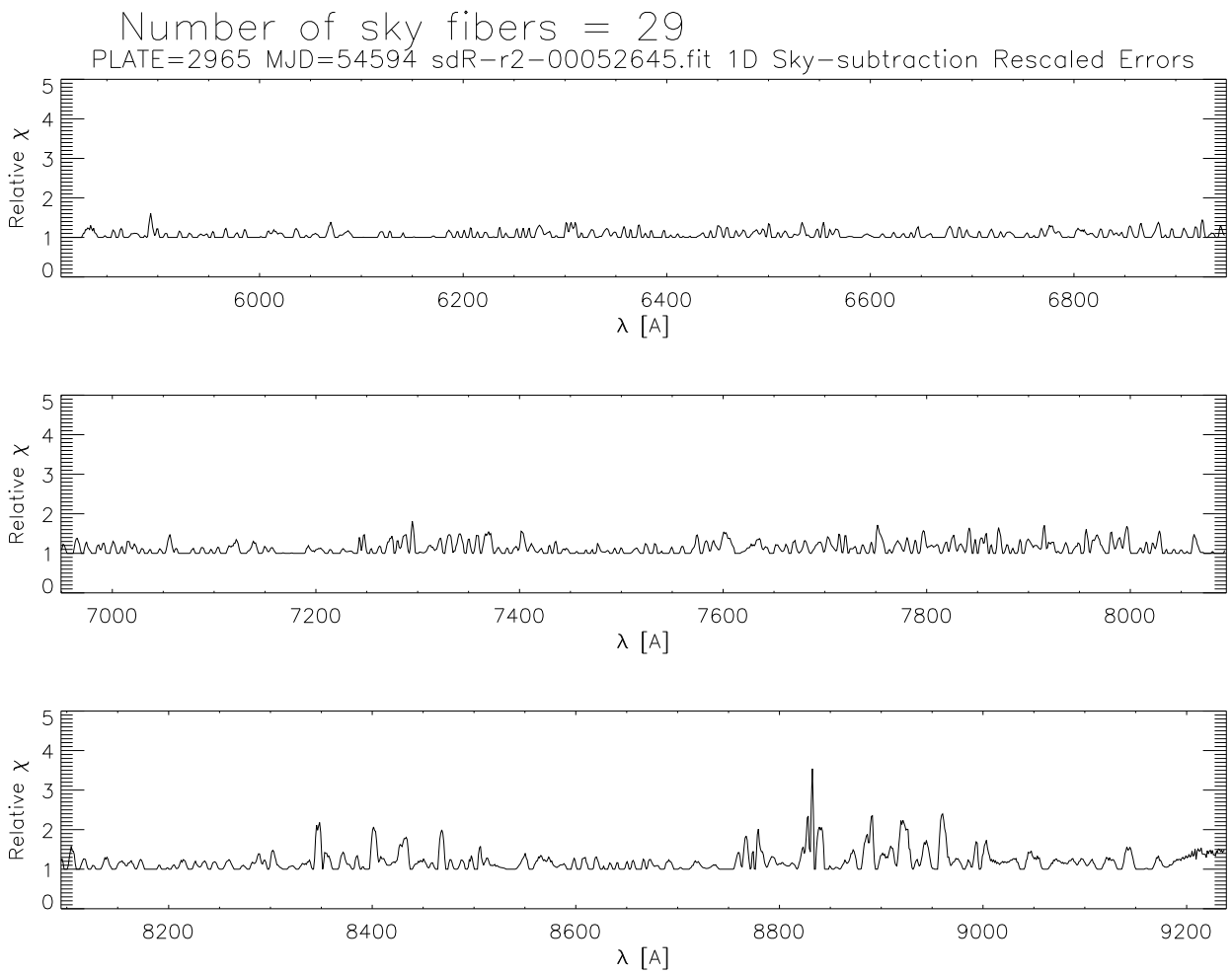

sky shift, pixels
−0.02
−0.04
−0.06
−0.08
−0.10
−0.12
−0.14
5000
6000
7000
8000
9000
10000

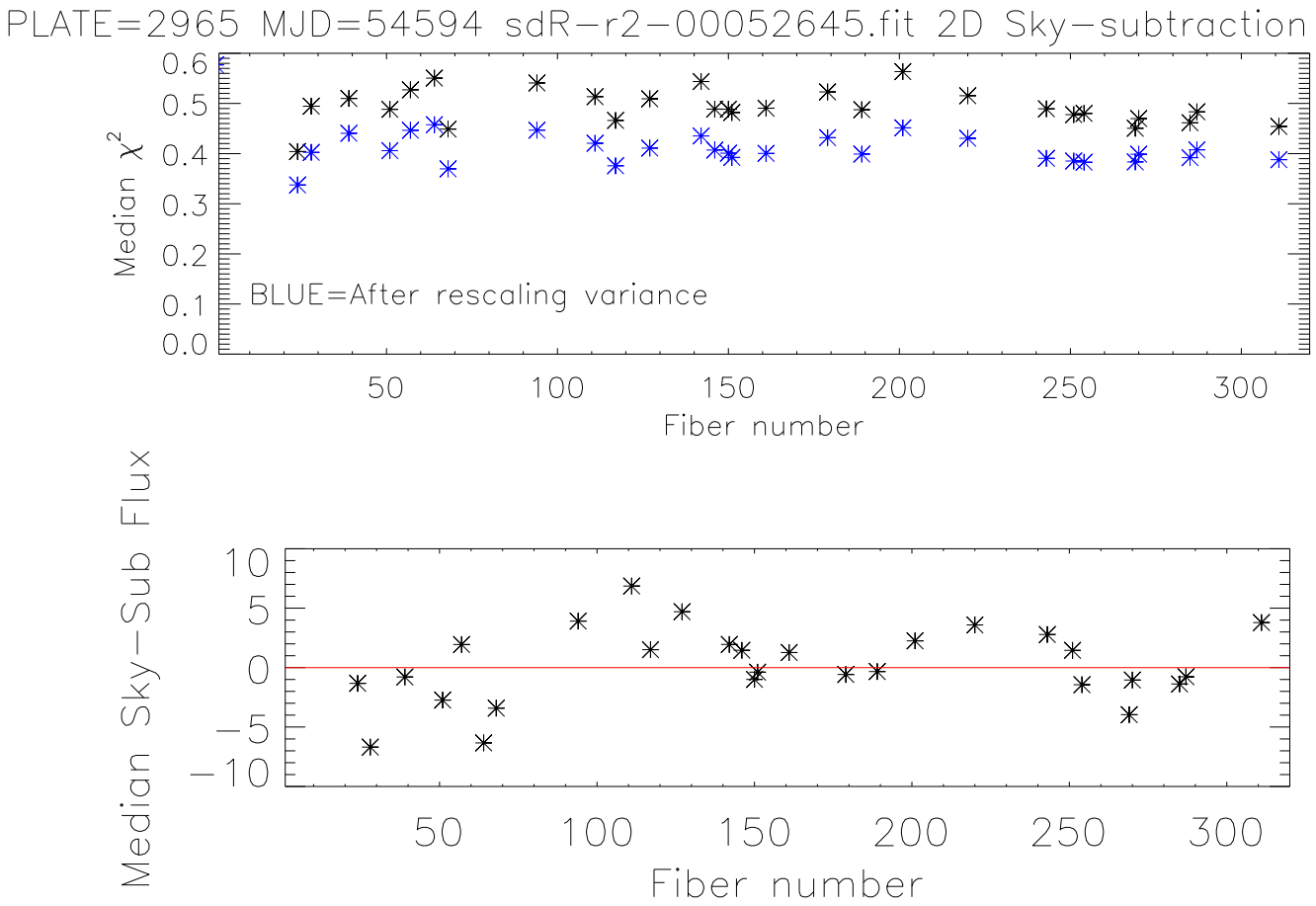

PLATE=2965 MJD=54594 Smooth superflat for sdR-r2-00052645.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

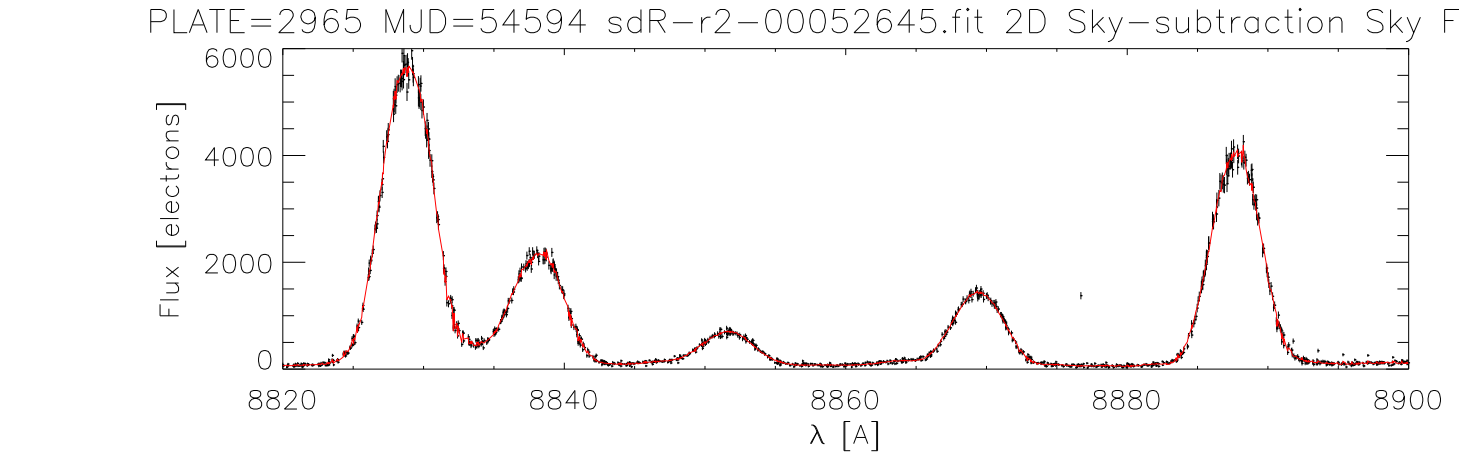

PLATE=2965 MJD=54594 sdR-r2-00052645.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

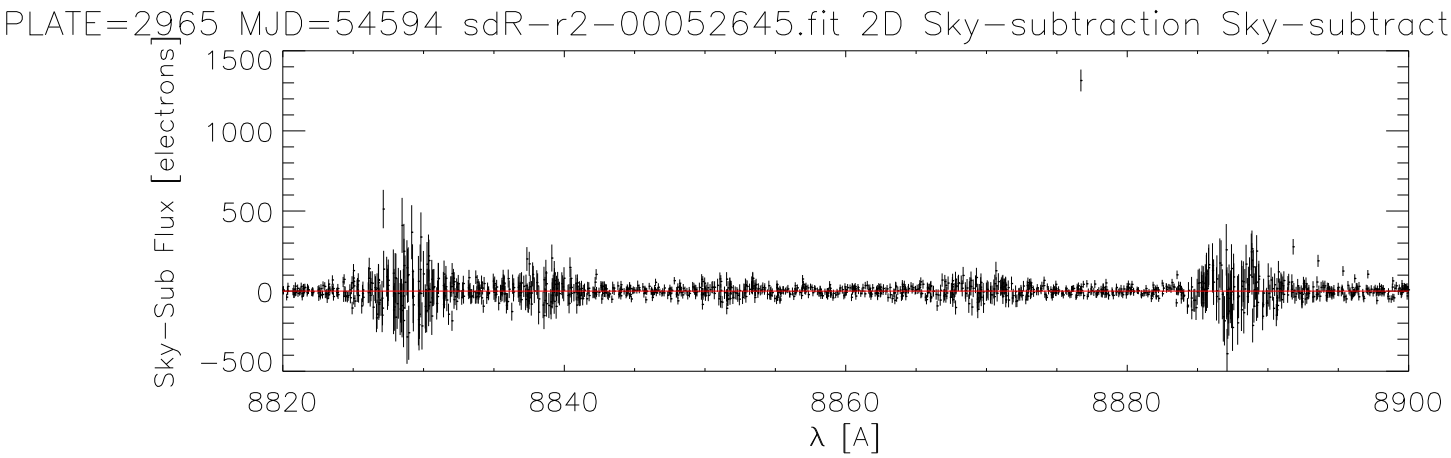

PLATE=2965 MJD=54594 sdR-r2-00052645.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

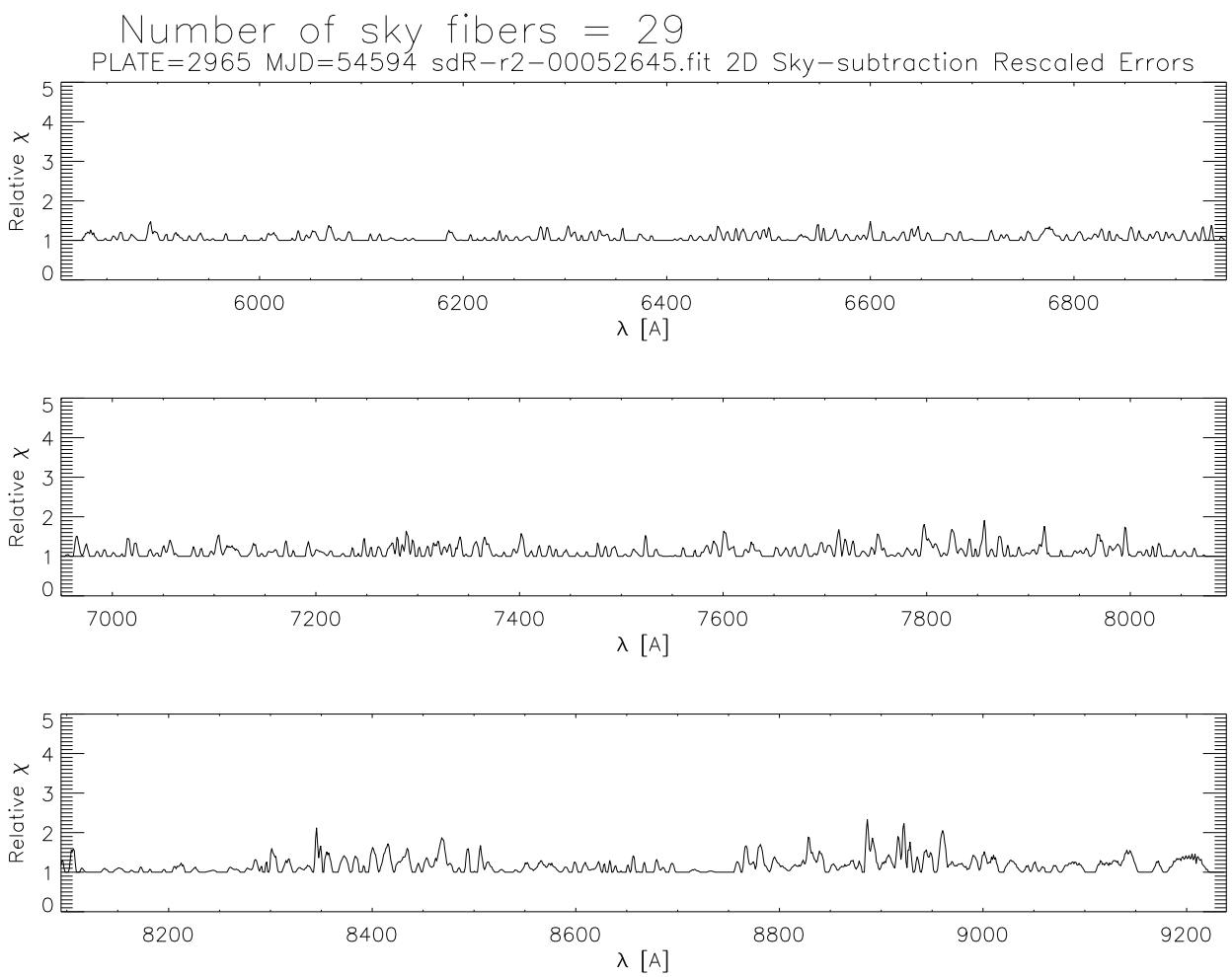

PLATE=2965 MJD=54594 sdR-r2-00052645.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

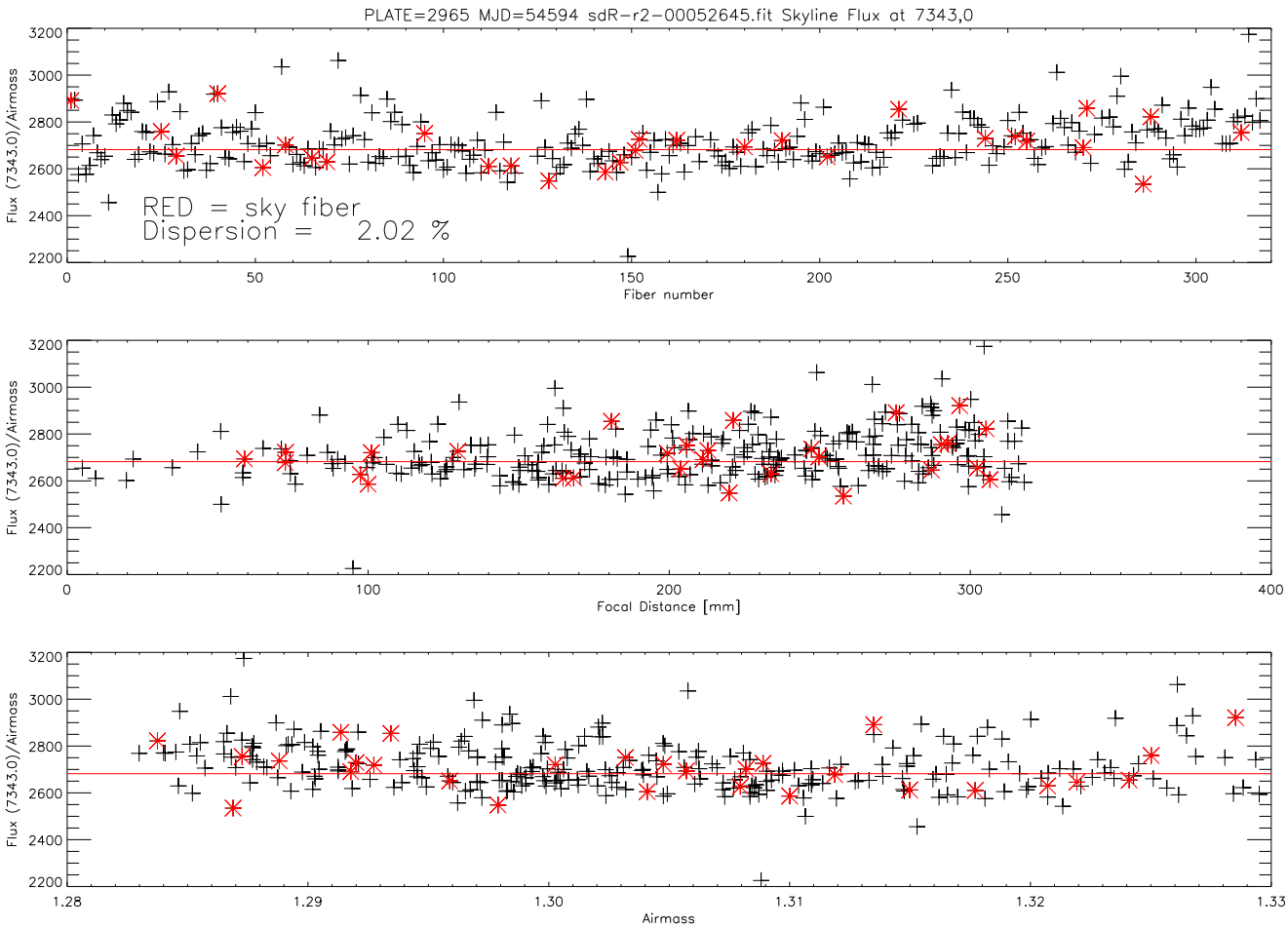

Number of sky fibers = 29
PLATE=2965 MJD=54594 sdR-r2-00052645.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

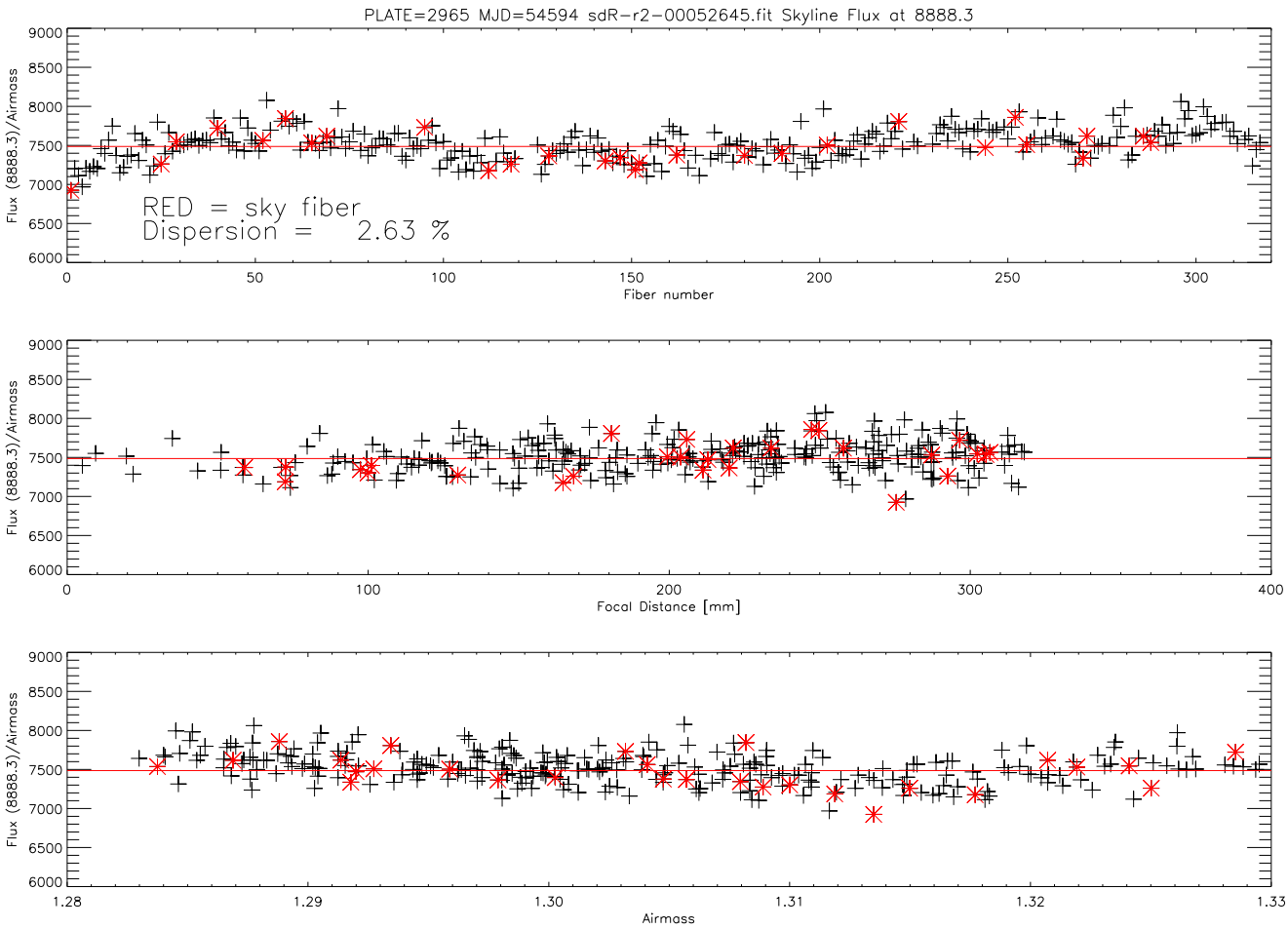

PLATE=2965 MJD=54594 sdR-r2-00052645.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number


PLATE=2965 MJD=54594 sdR-r2-00052645.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]


PLATE=2965 MJD=54594 sdR-r2-00052645.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 = 29
PLATE=2965 MJD=54594 sdR-r2-00052645.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200


PLATE=2965 MJD=54594 sdR-r2-00052645.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.02 %
Fiber number
Focal Distance [mm]
Airmass


PLATE=2965 MJD=54594 sdR-r2-00052645.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.63 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass