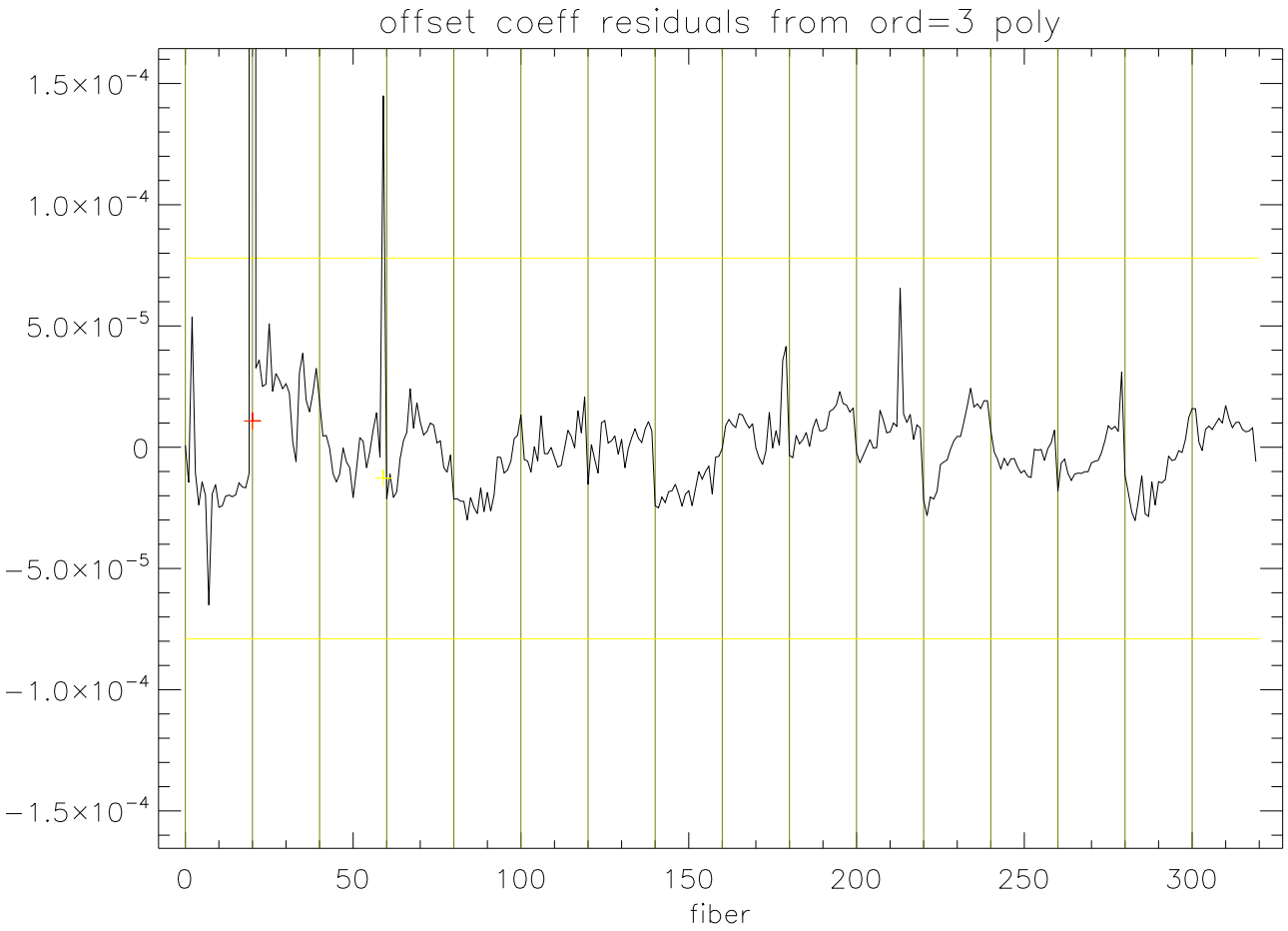
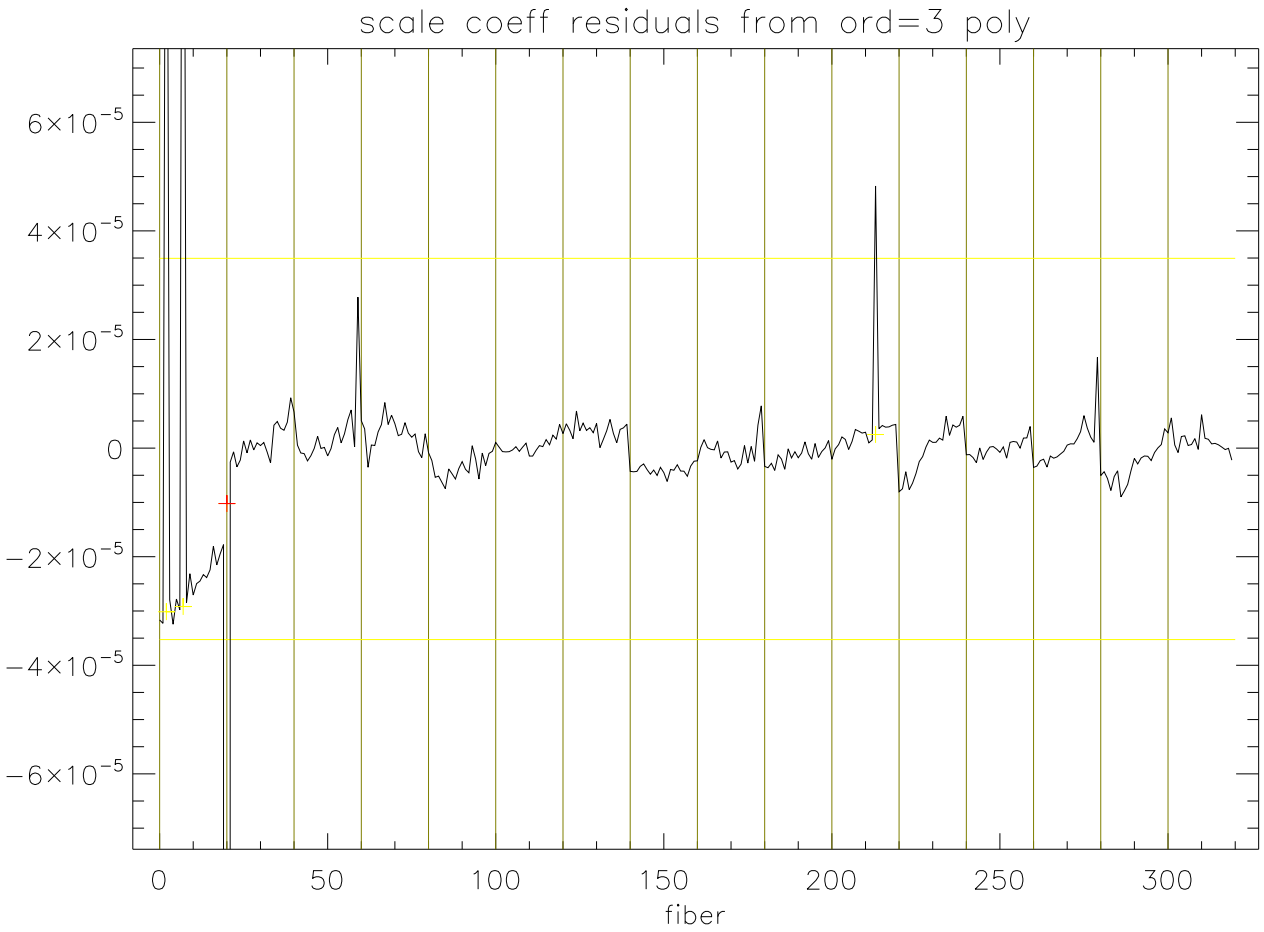
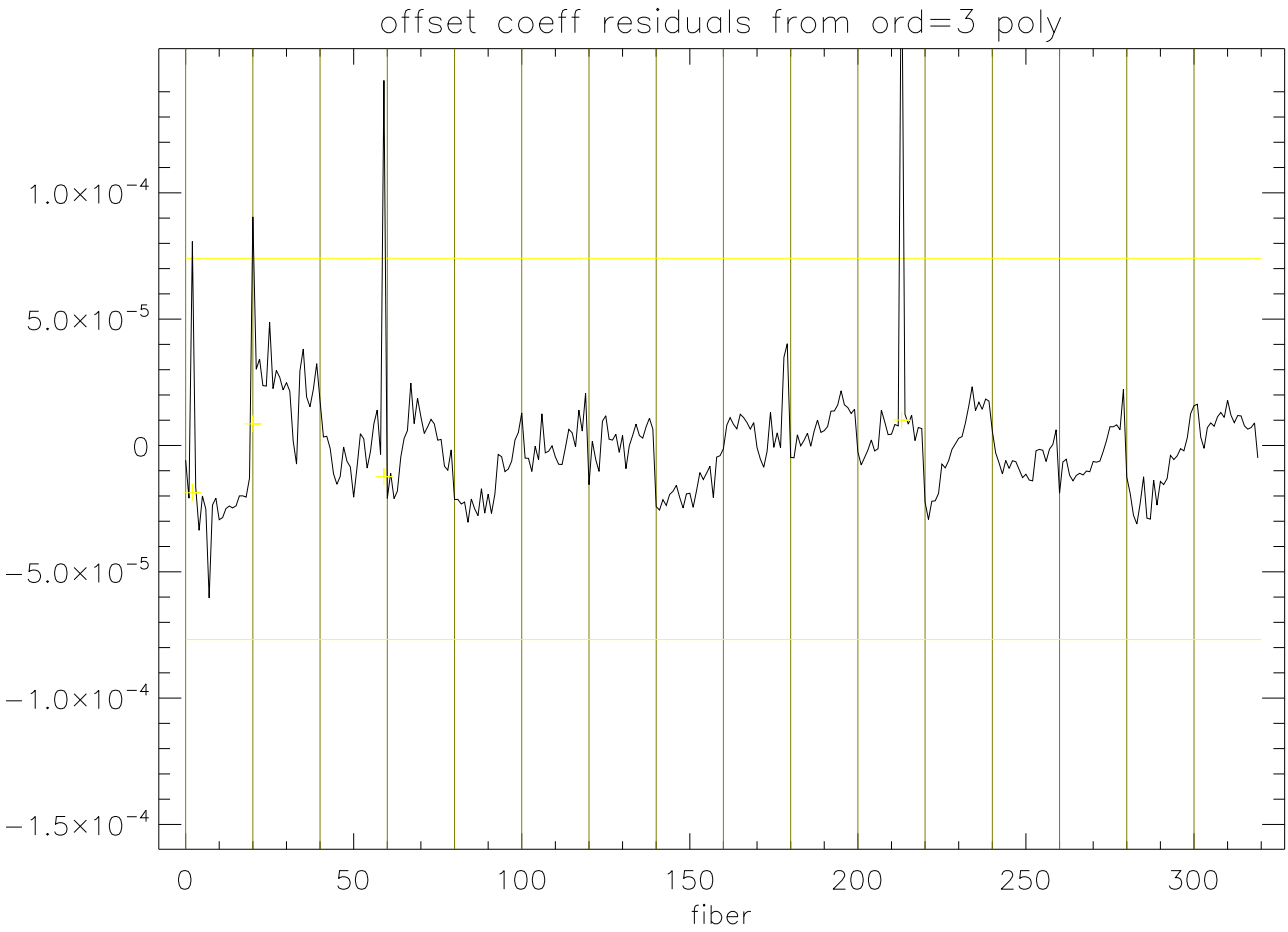
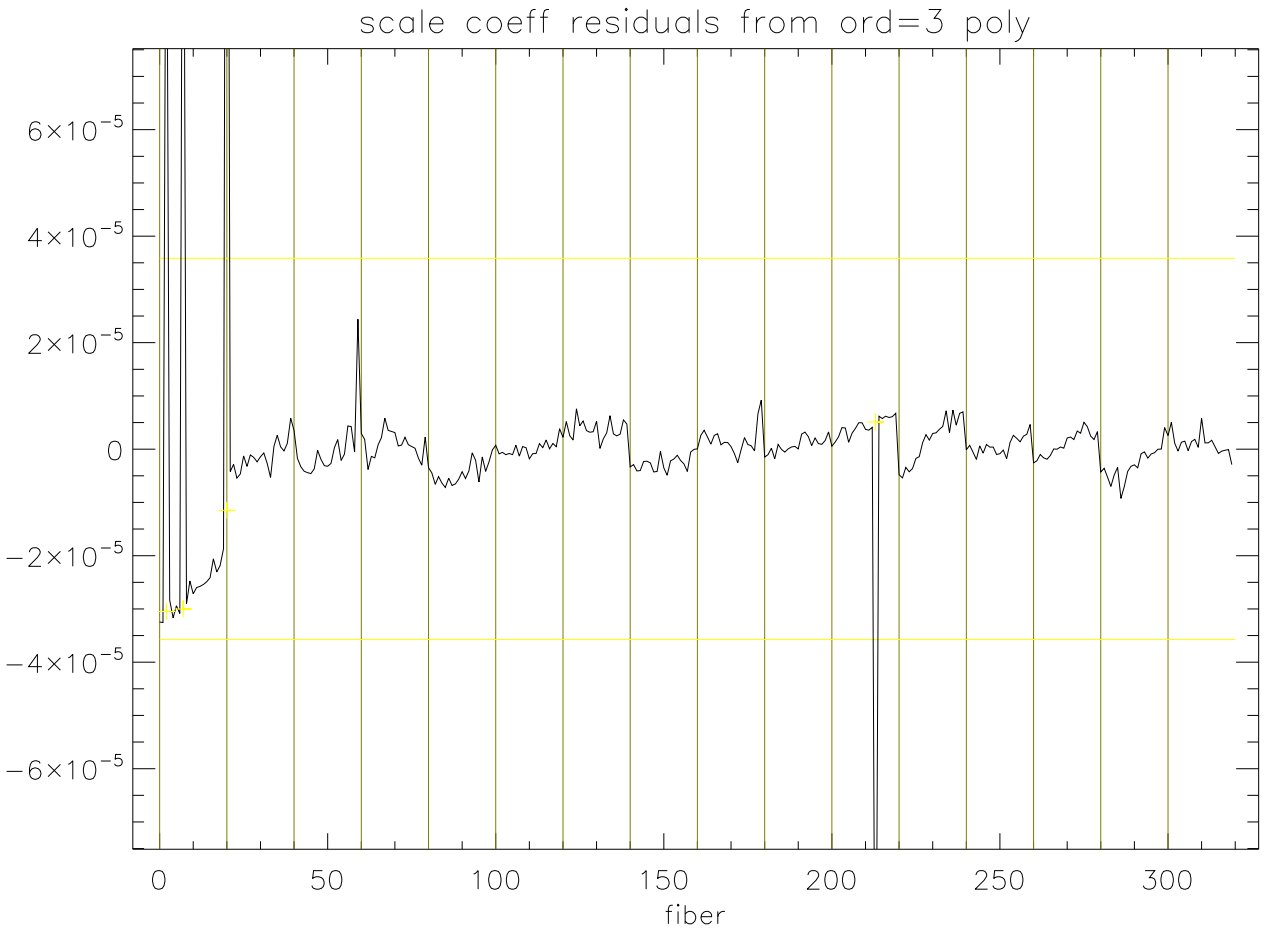
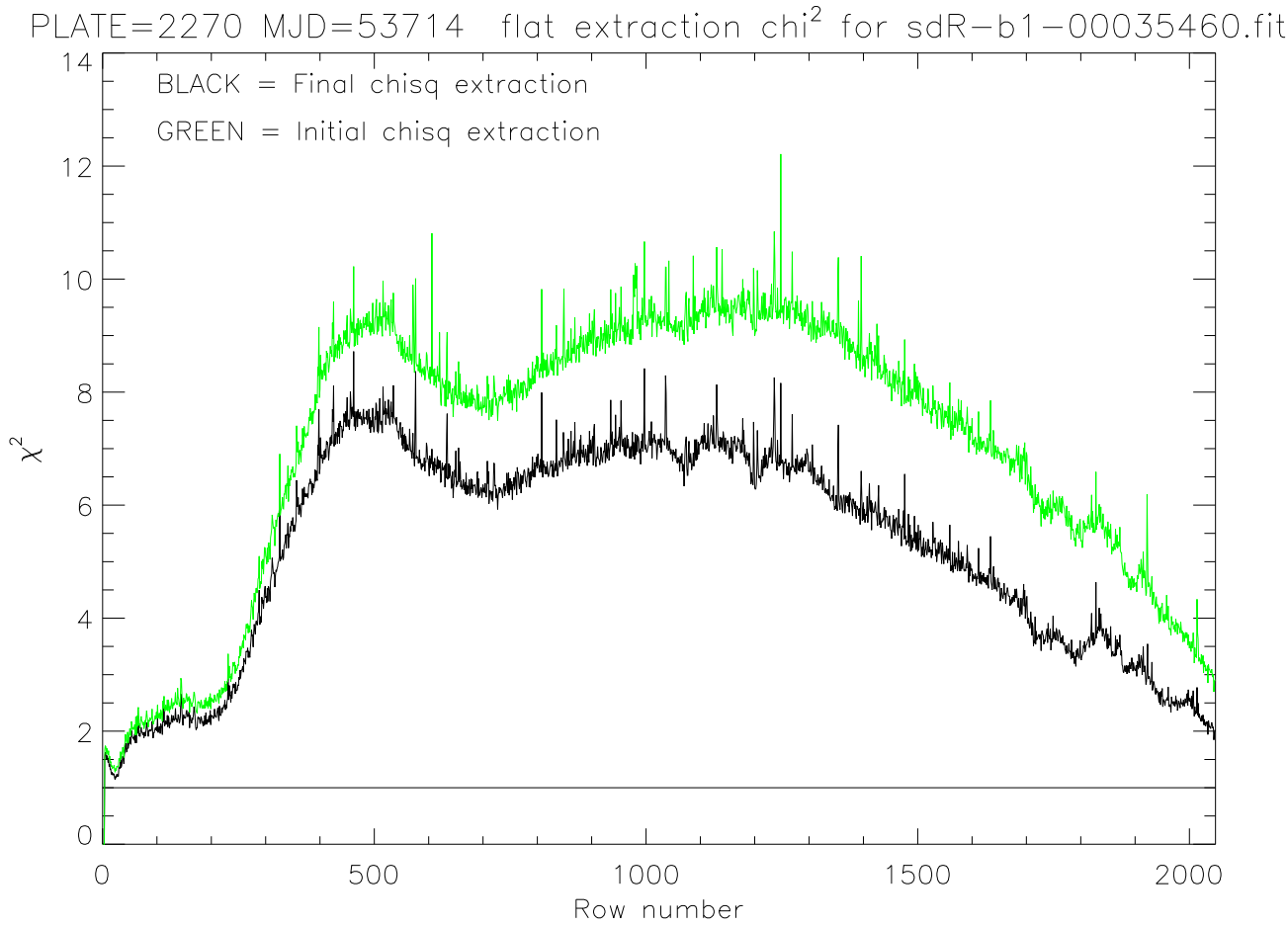
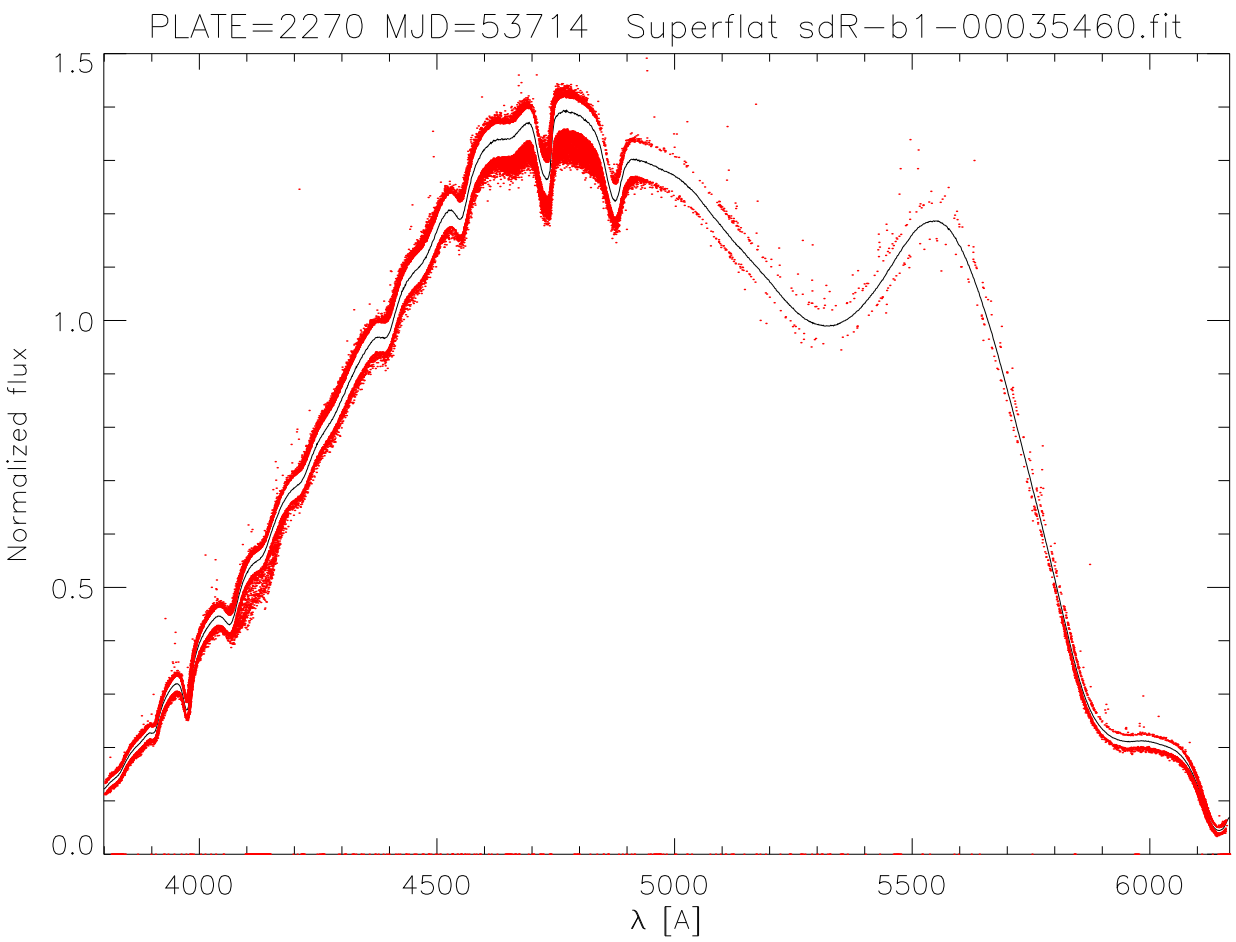

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

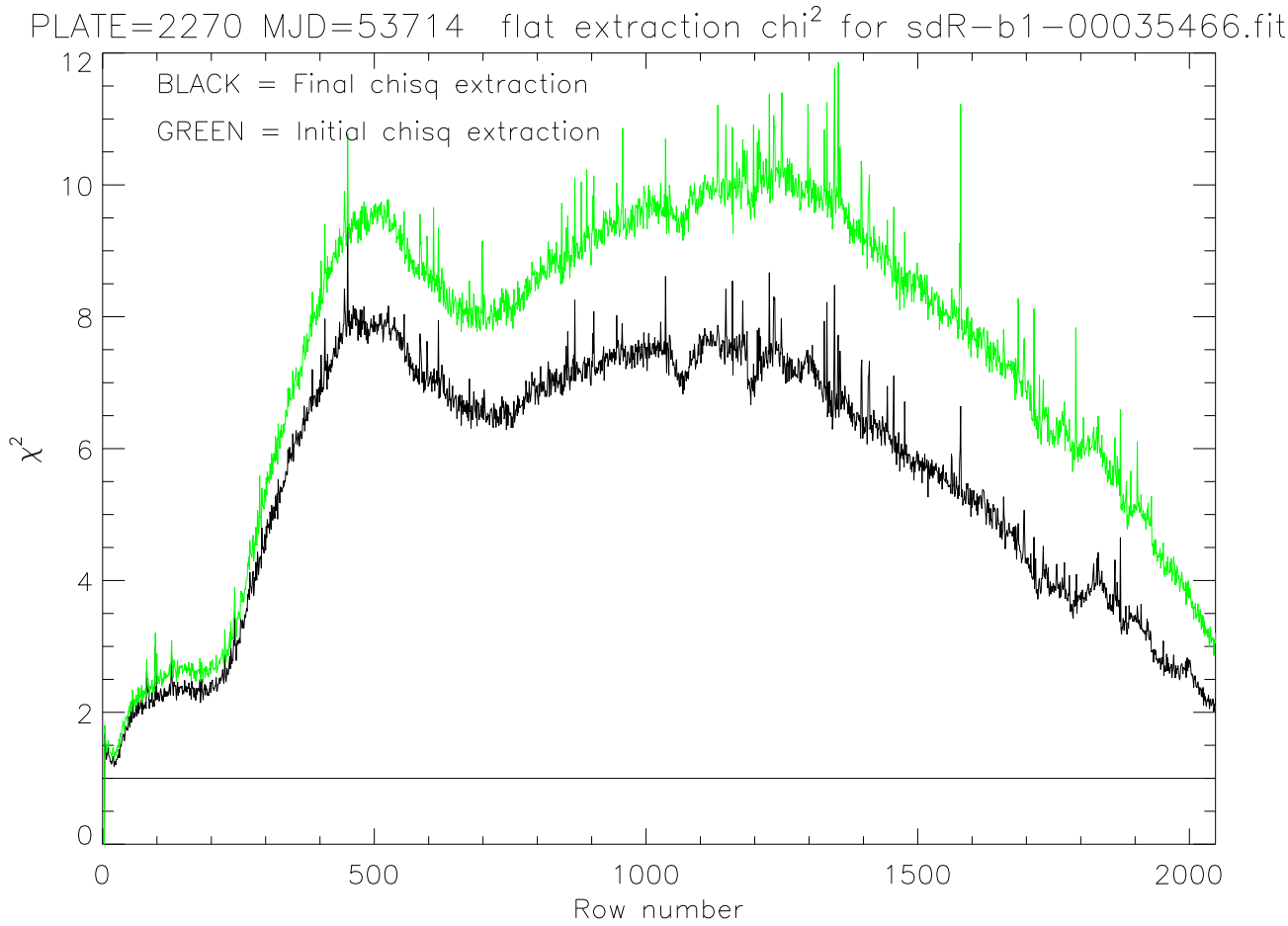

scale coeff residuals from ord=3 poly
6×10⁻⁵
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
−6×10⁻⁵
0
50
100
150
200
250
300
fiber

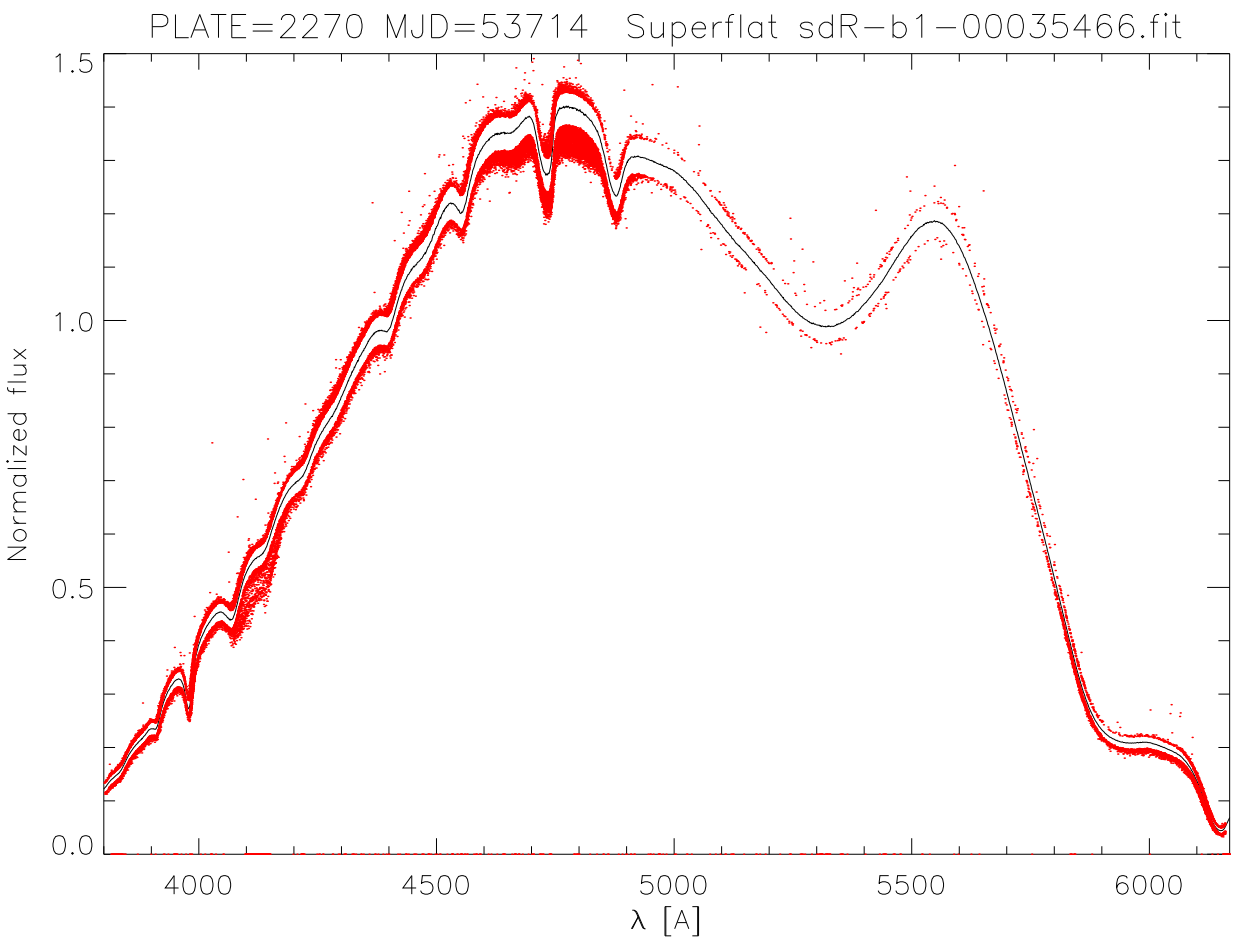

offset coeff residuals from ord=3 poly
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

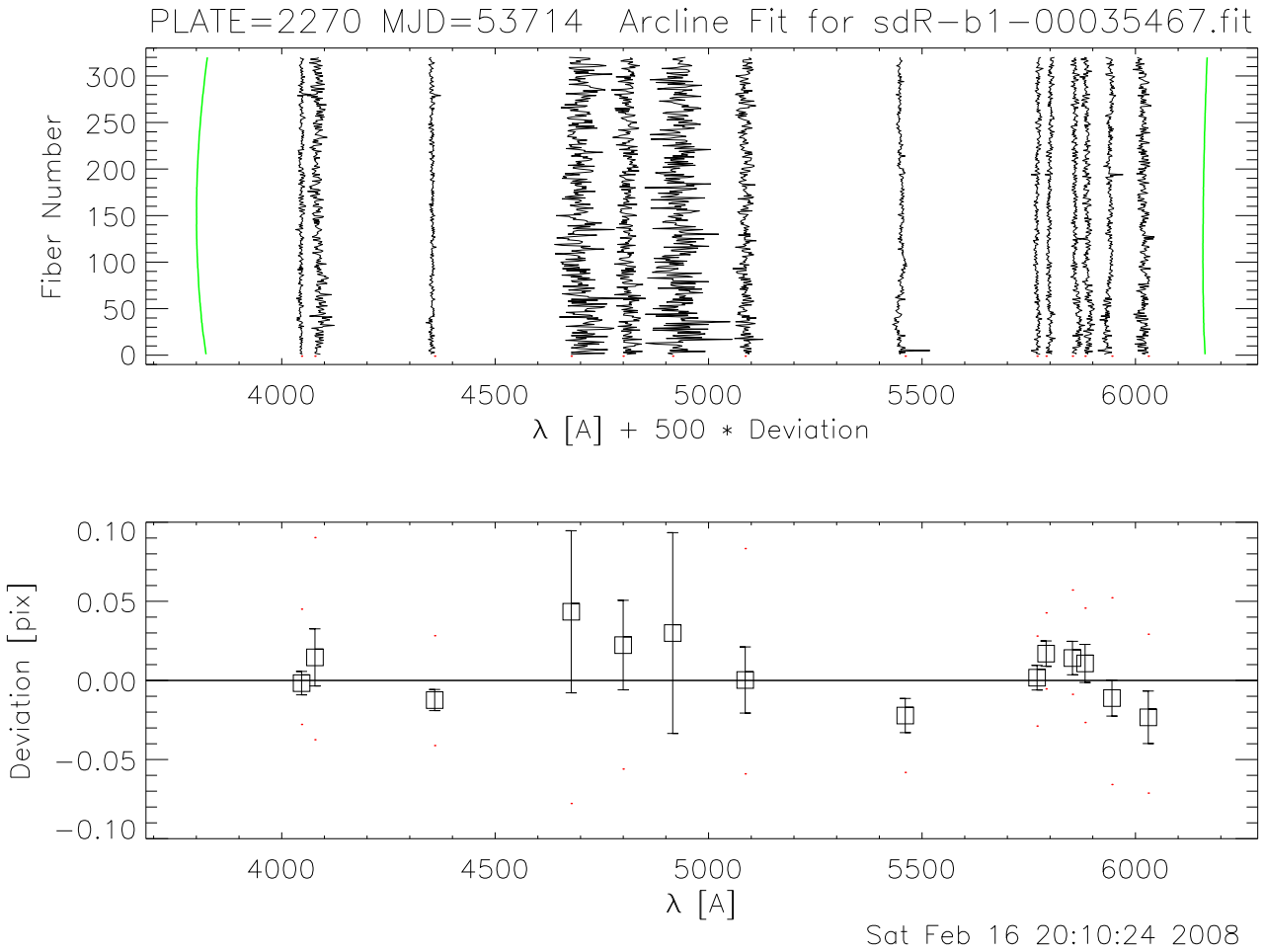

scale coeff residuals from ord=3 poly
6×10⁻⁵
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
−6×10⁻⁵
0
50
100
150
200
250
300
fiber

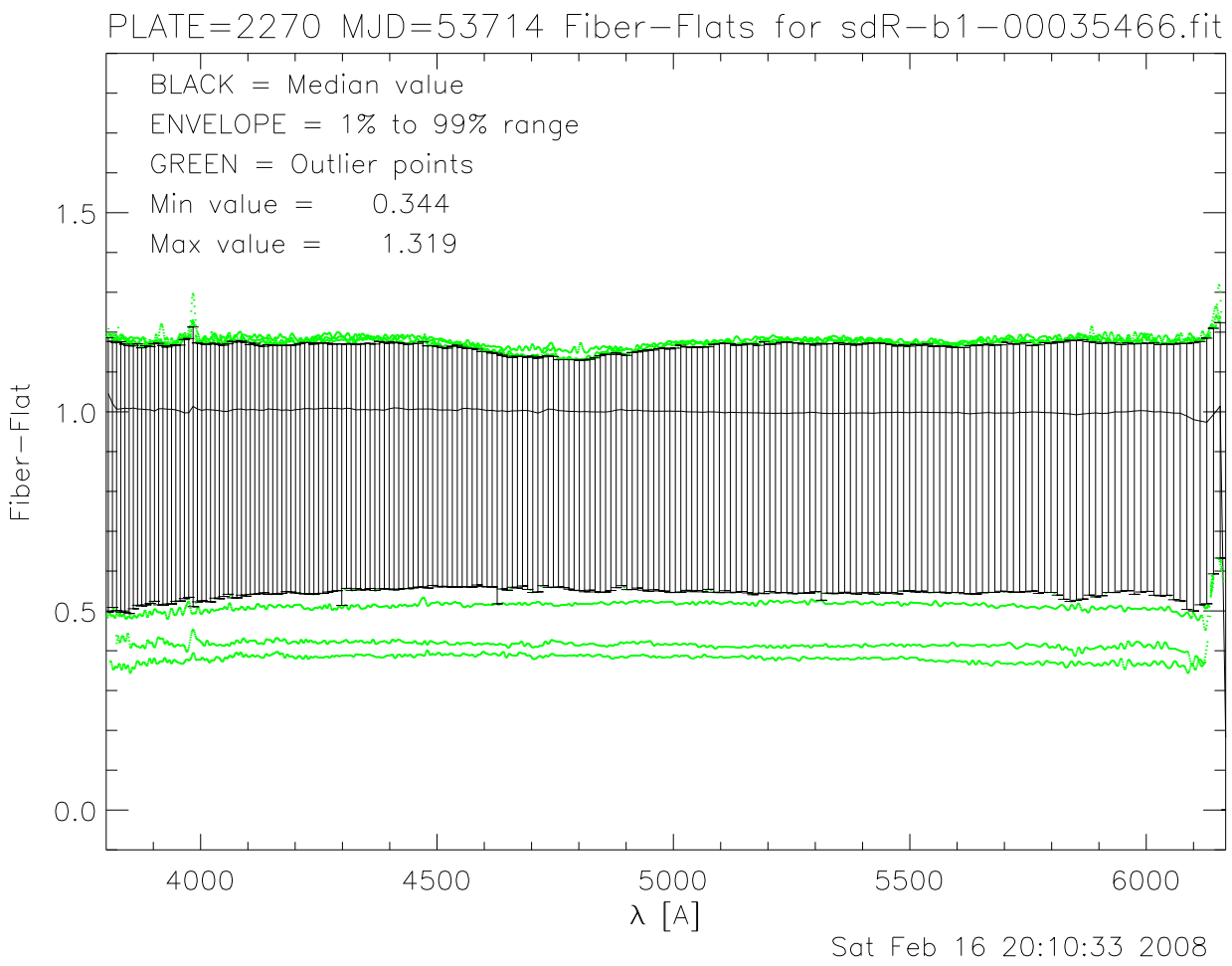

PLATE=2270 MJD=53714 flat extraction chi^2 for sdR−b1−00035460.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
14
0
500
1000
1500
2000

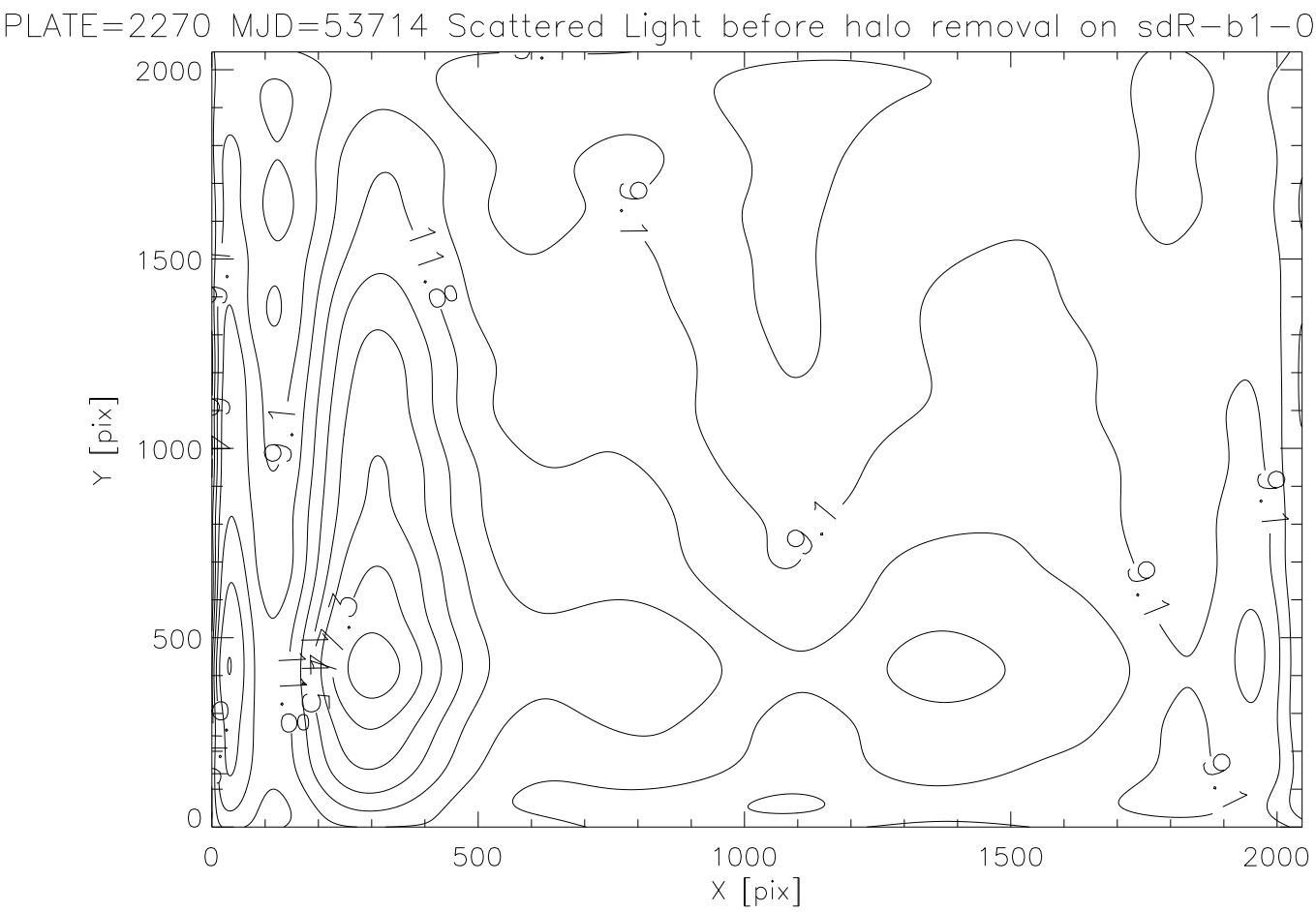

PLATE=2270 MJD=53714 Superflat sdR-b1-00035460.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

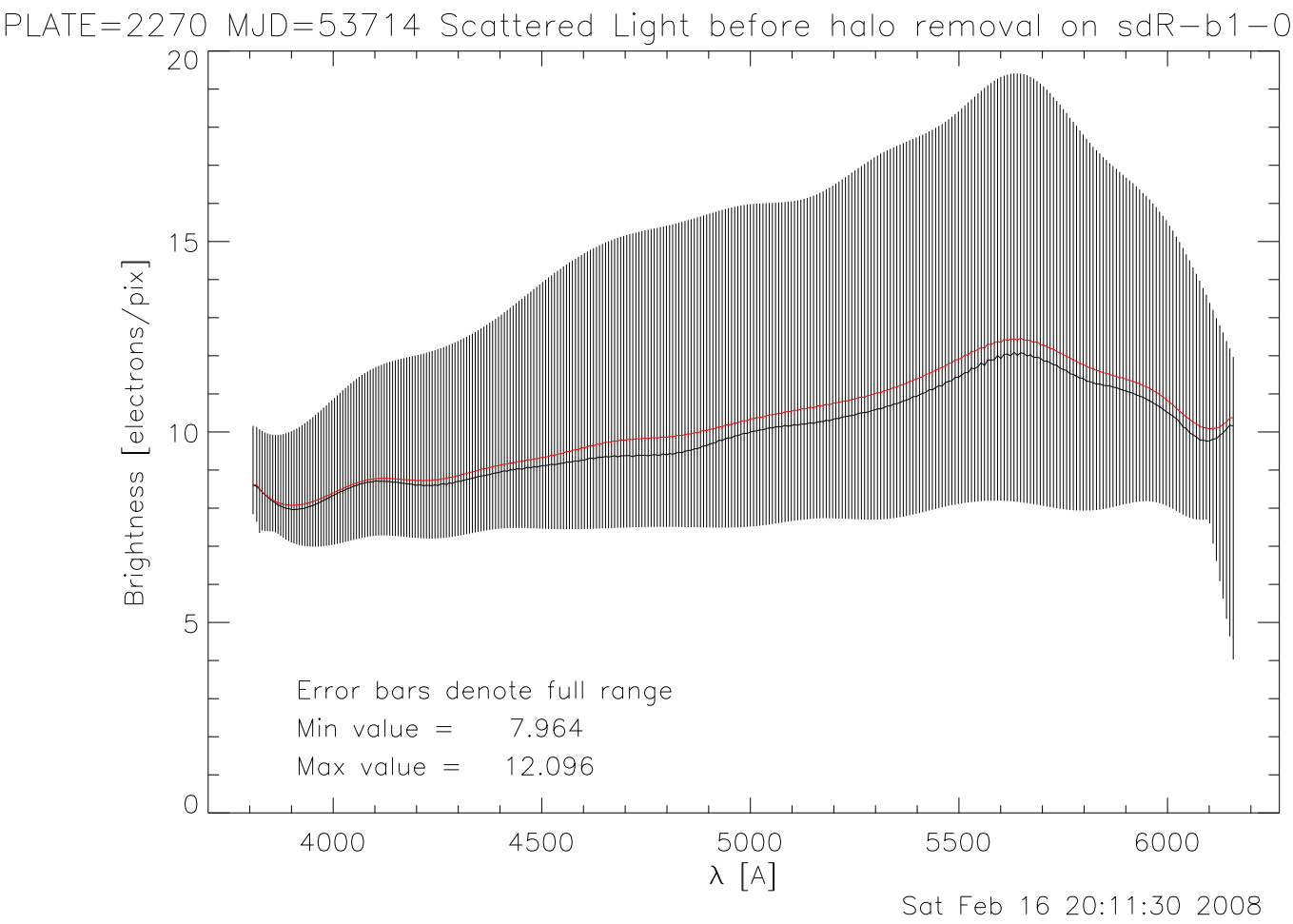

PLATE=2270 MJD=53714 flat extraction chi^2 for sdR−b1−00035466.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

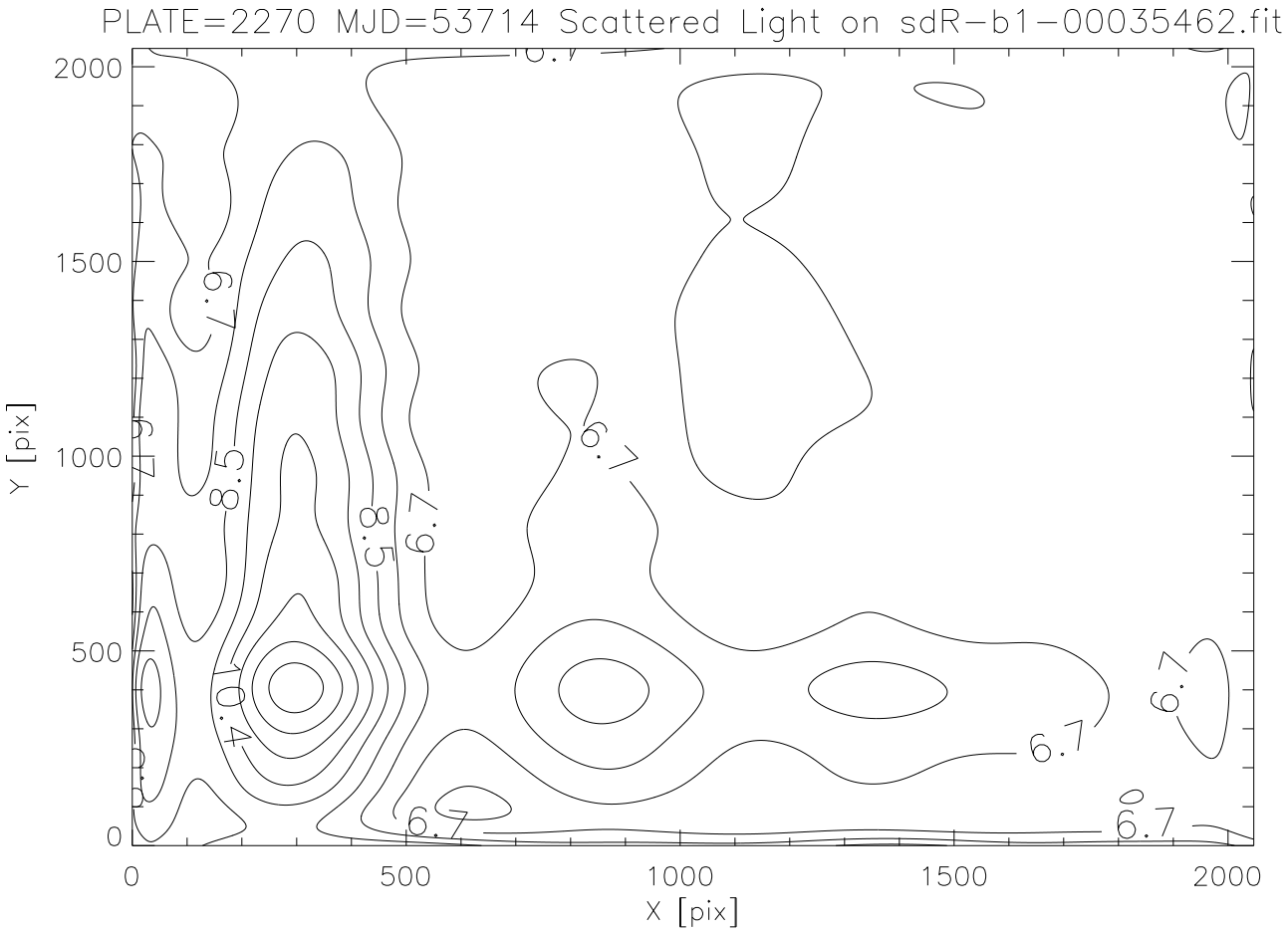

PLATE=2270 MJD=53714 Superflat sdR-b1-00035466.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

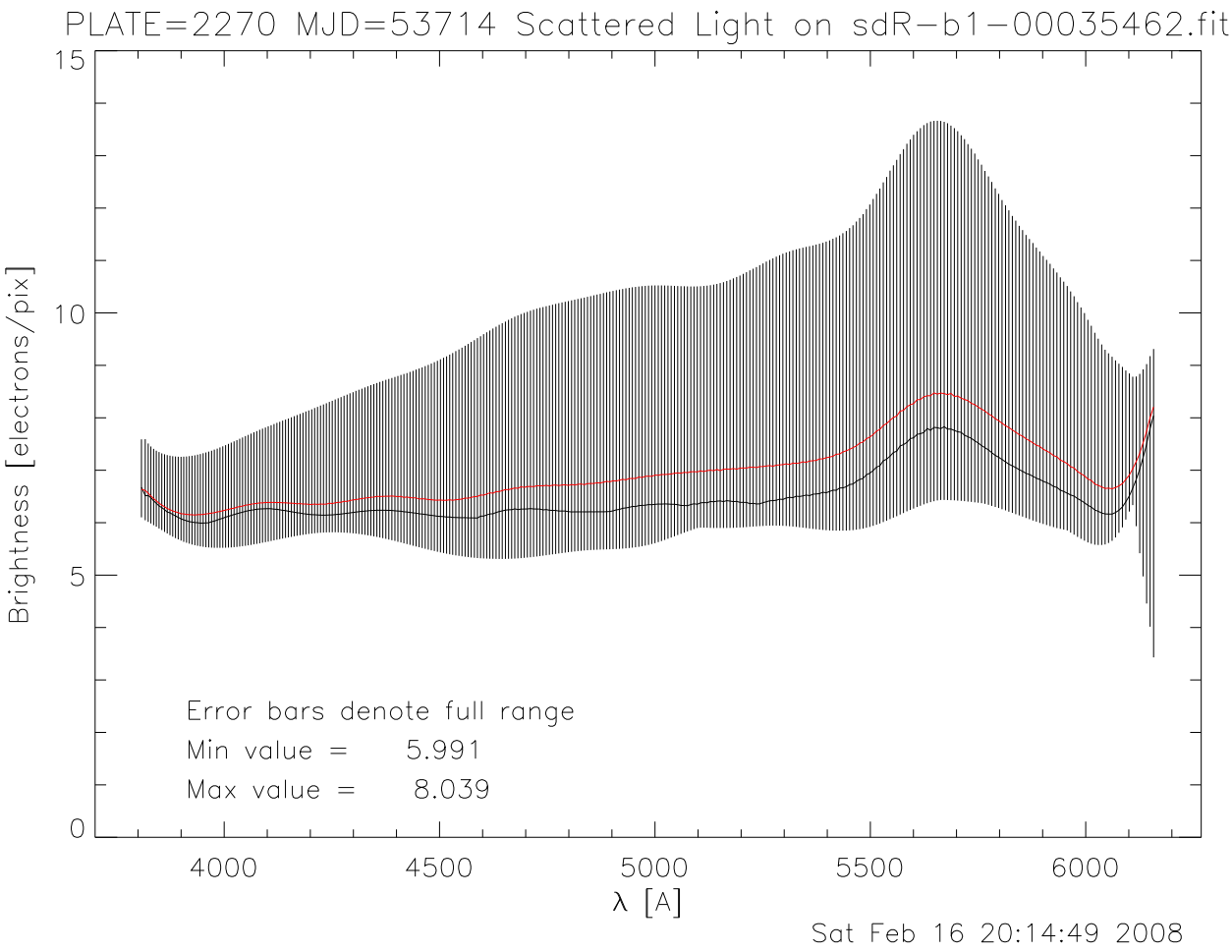

PLATE=2270 MJD=53714 Arcline Fit for sdR-b1-00035467.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 20:10:24 2008

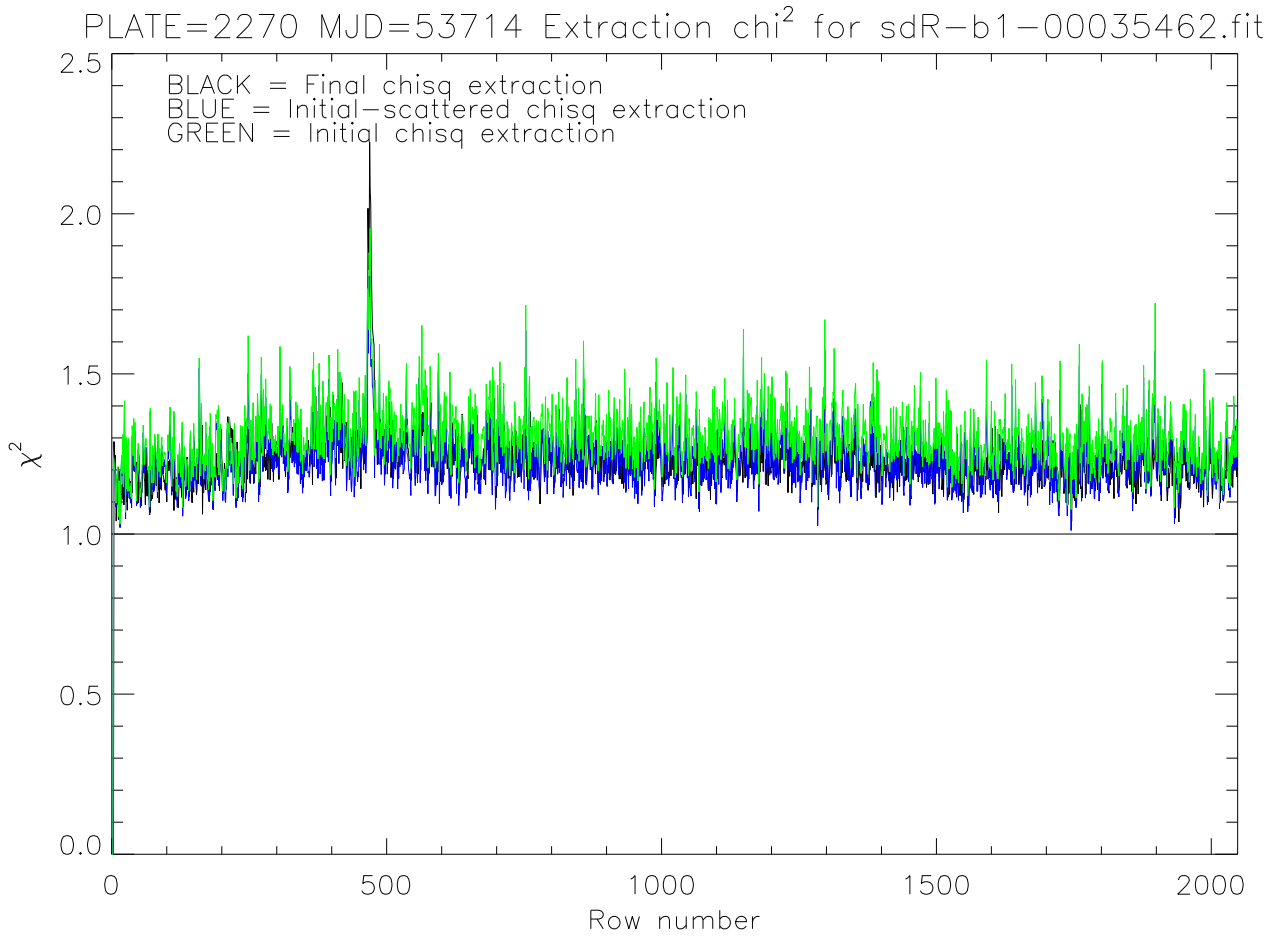

PLATE=2270 MJD=53714 Fiber−Flats for sdR−b1−00035466.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.344
Max value = 1.319
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 20:10:33 2008

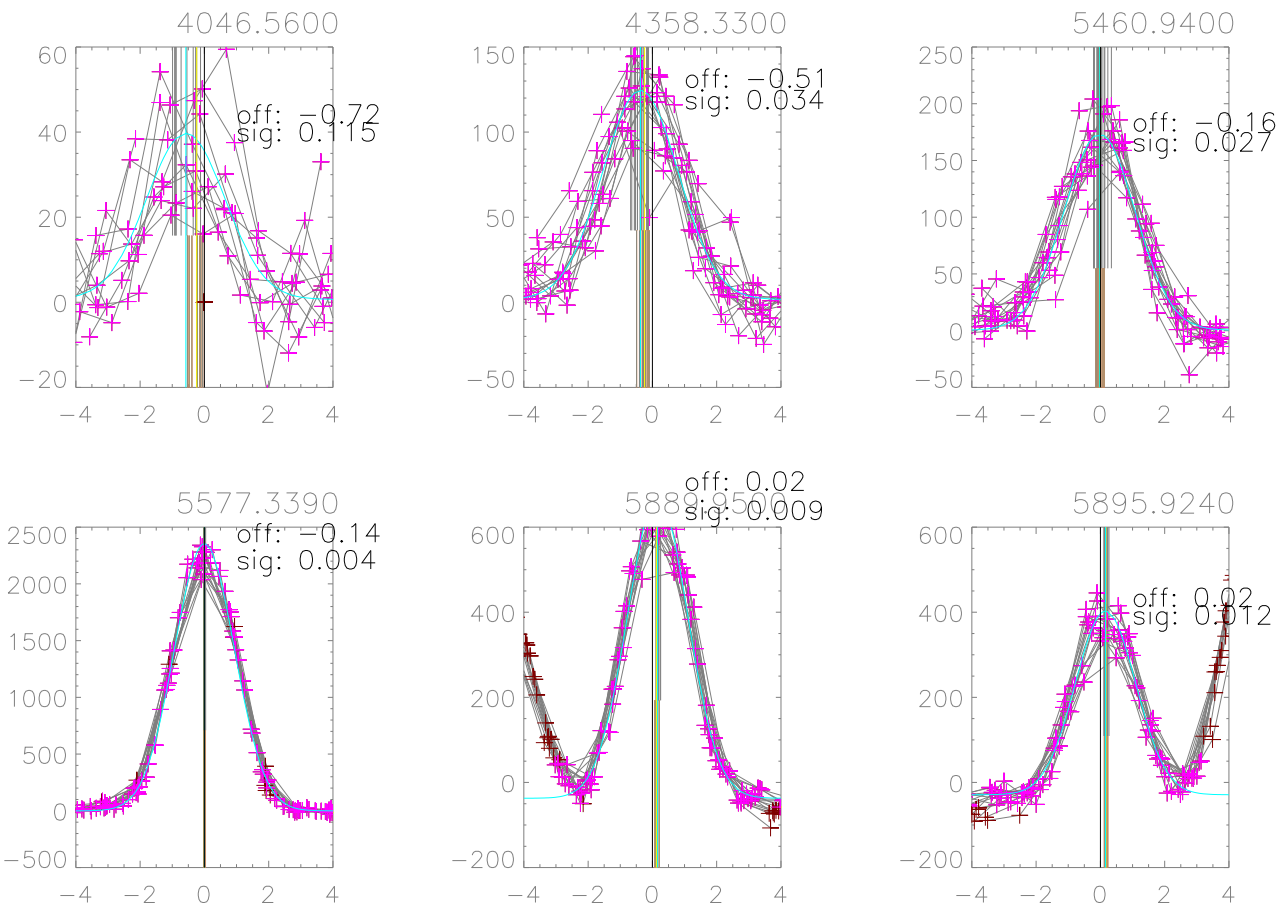

PLATE=2270 MJD=53714 Scattered Light before halo removal on sdR−b1−00035462.f
Y [pix]
X [pix]
0
500
1000
1500
2000
9.1
11.8
13.5

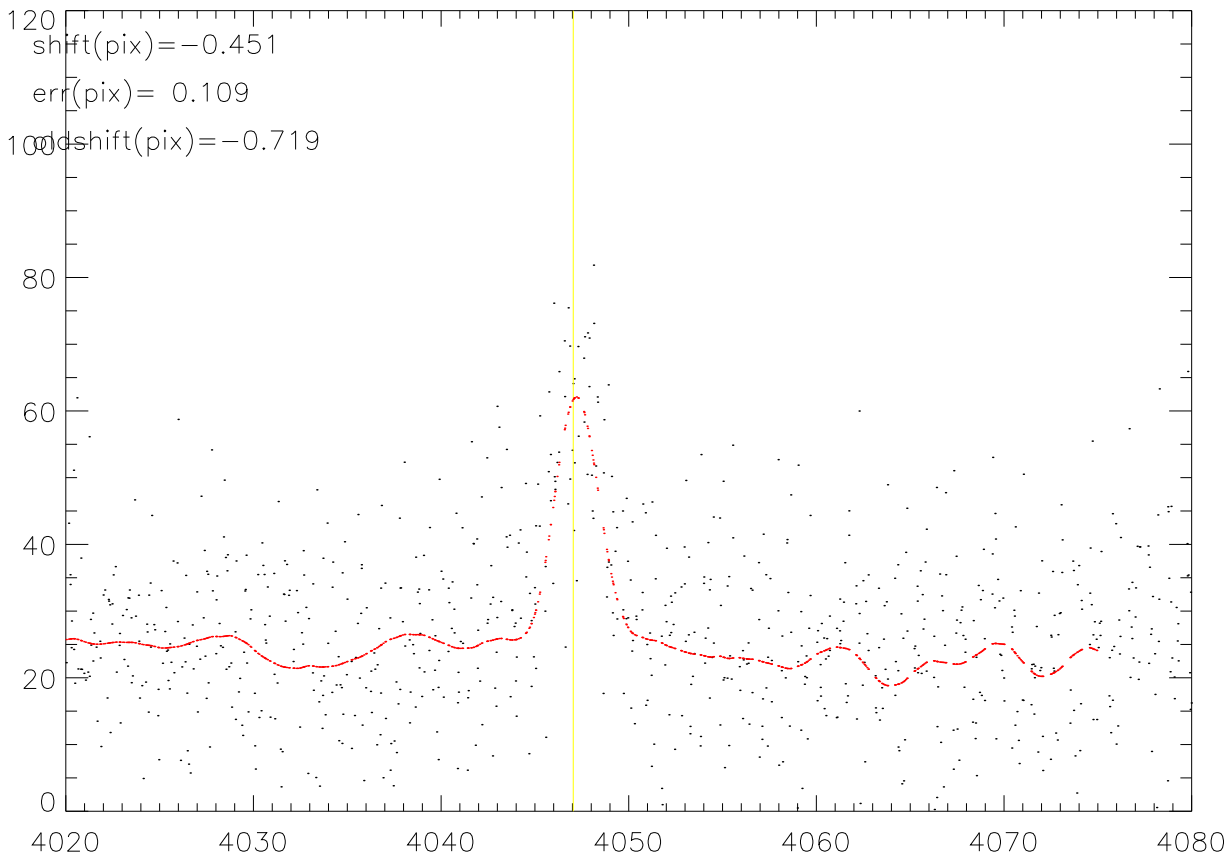

PLATE=2270 MJD=53714 Scattered Light before halo removal on sdR-b1-00035462.f
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 7.964
Max value = 12.096
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 20:11:30 2008

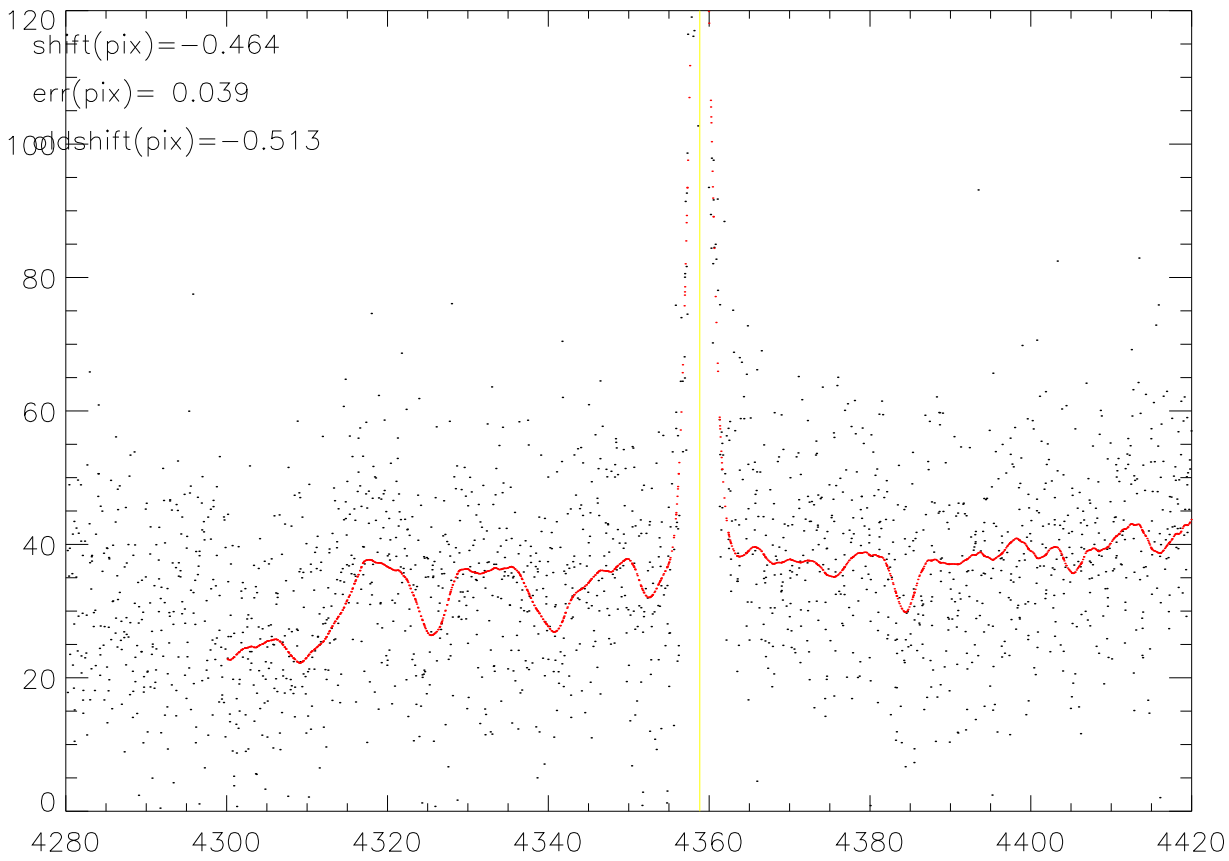

PLATE=2270 MJD=53714 Scattered Light on sdR-b1-00035462.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
6.7
6.7
6.7

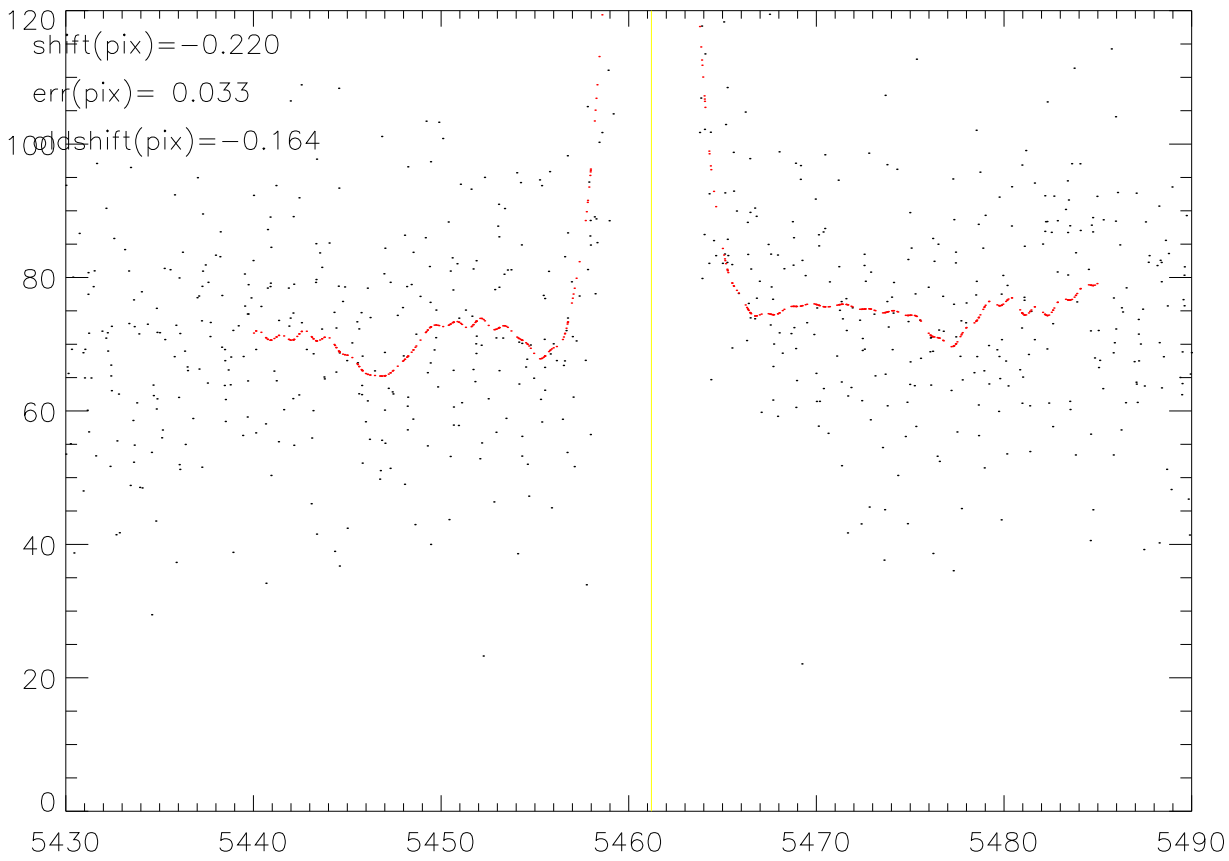

PLATE=2270 MJD=53714 Scattered Light on sdR-b1-00035462.fit
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 5.991
Max value = 8.039
Sat Feb 16 20:14:49 2008

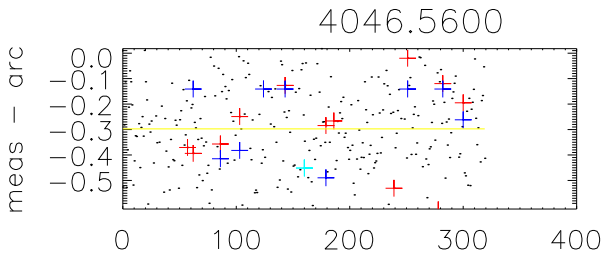

PLATE=2270 MJD=53714 Extraction chi^2 for sdR-b1-00035462.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

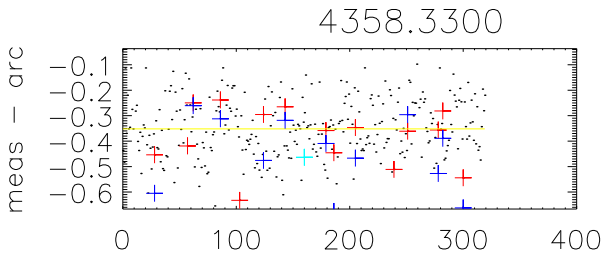

4046.5600
off: −0.72
sig: 0.115
4358.3300
off: −0.51
sig: 0.034
5460.9400
off: −0.16
sig: 0.027
5577.3390
off: −0.14
sig: 0.004
5888.9500
off: 0.02
sig: 0.009
5895.9240
off: 0.02
sig: 0.012

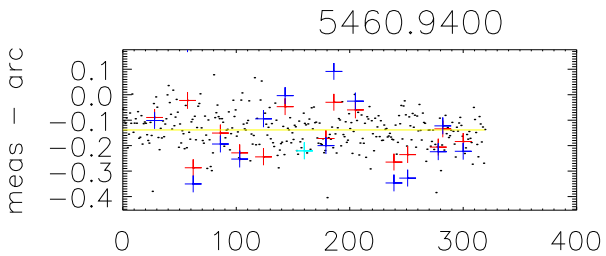

shift(pix)=−0.451
err(pix)= 0.109
oldshift(pix)=−0.719
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

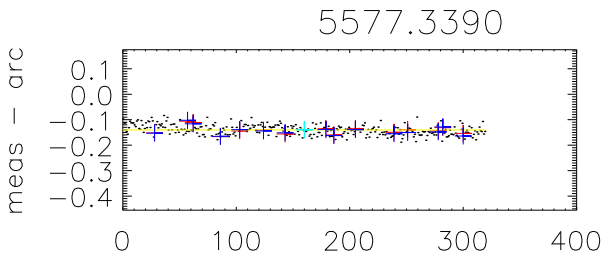

shift(pix)=−0.464
err(pix)= 0.039
oldshift(pix)=−0.513
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

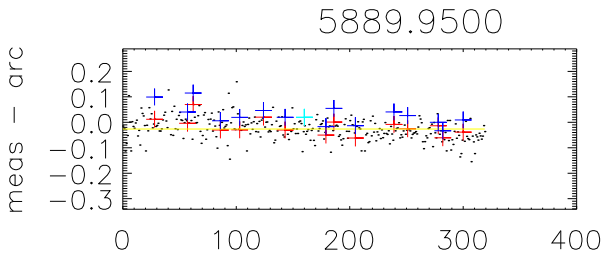

shift(pix)=−0.220
err(pix)= 0.033
oldshift(pix)=−0.164
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

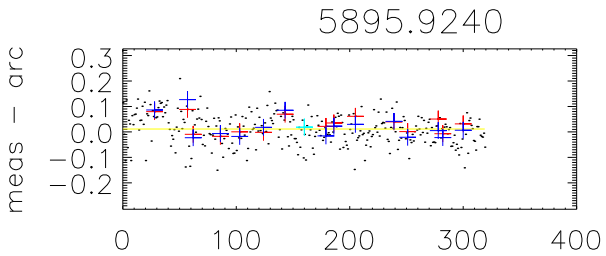

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

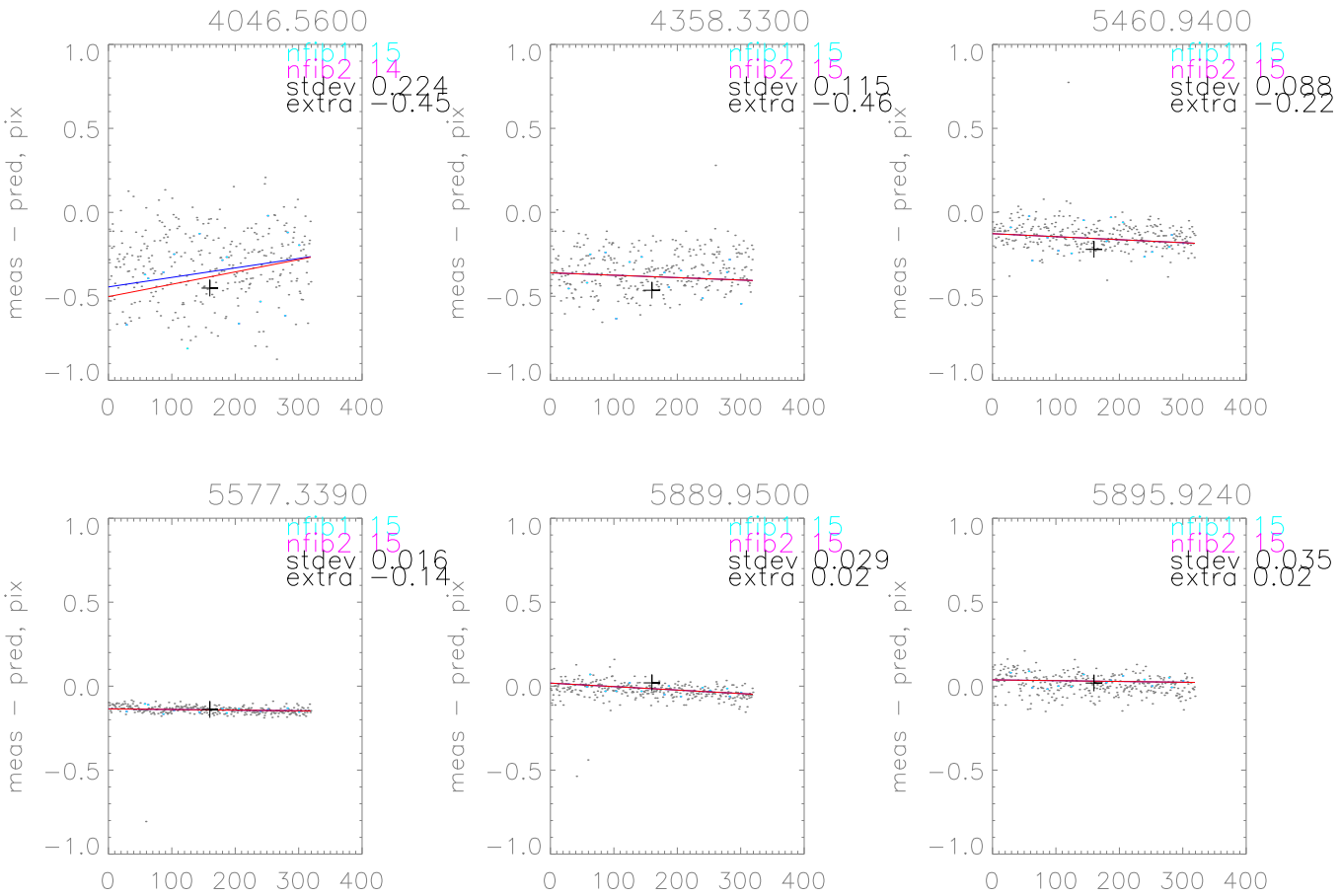

4358.3300
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

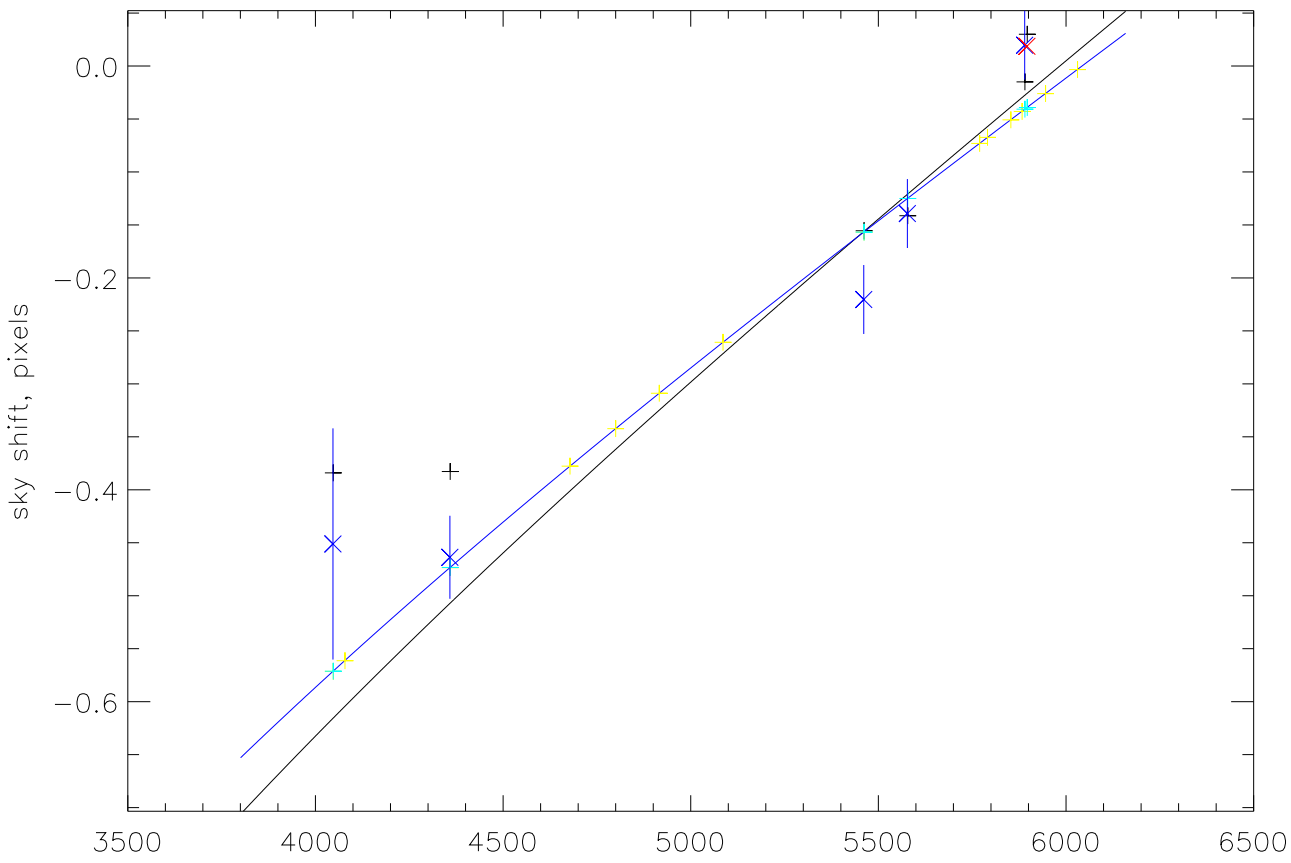

5460.9400
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


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

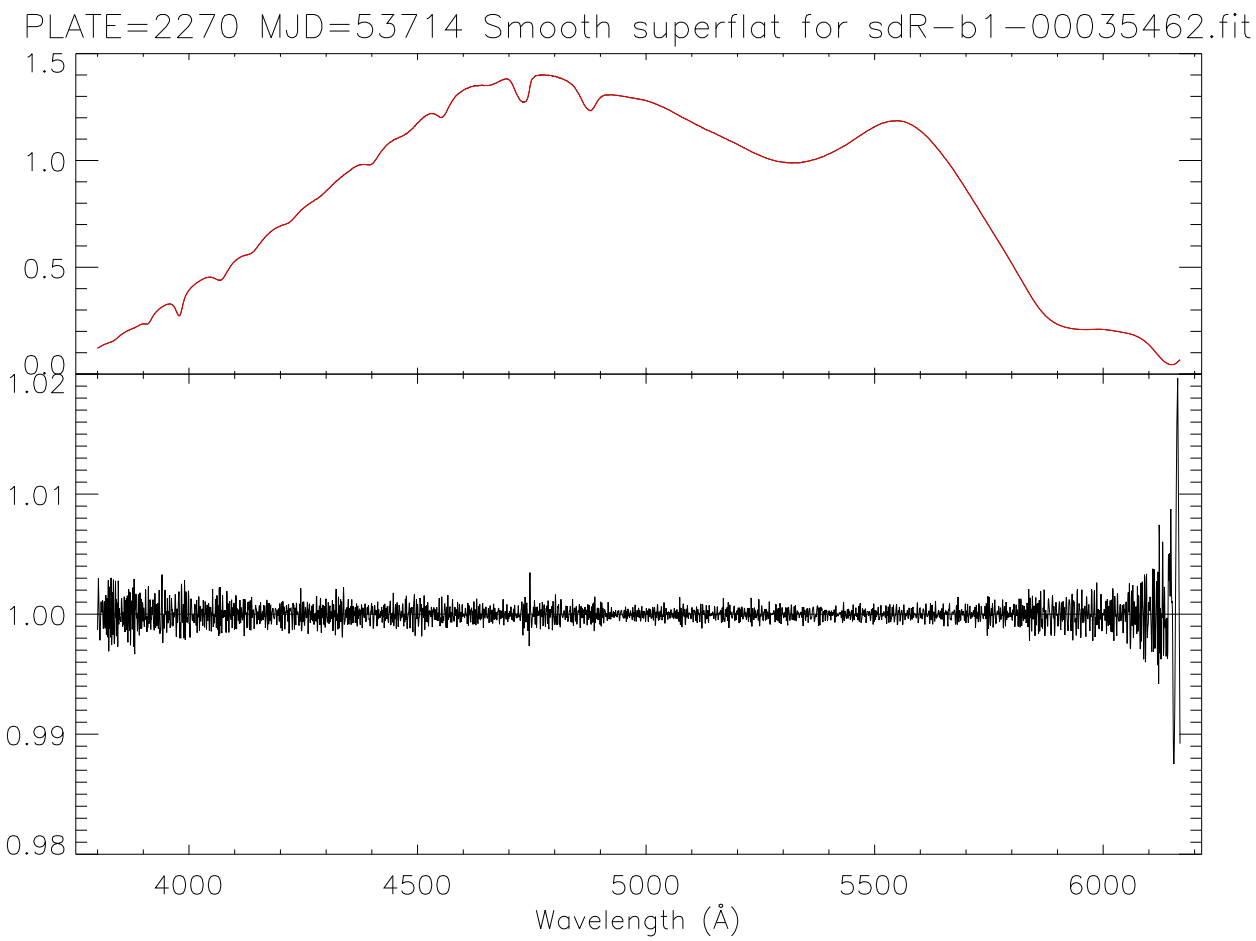

5889.9500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

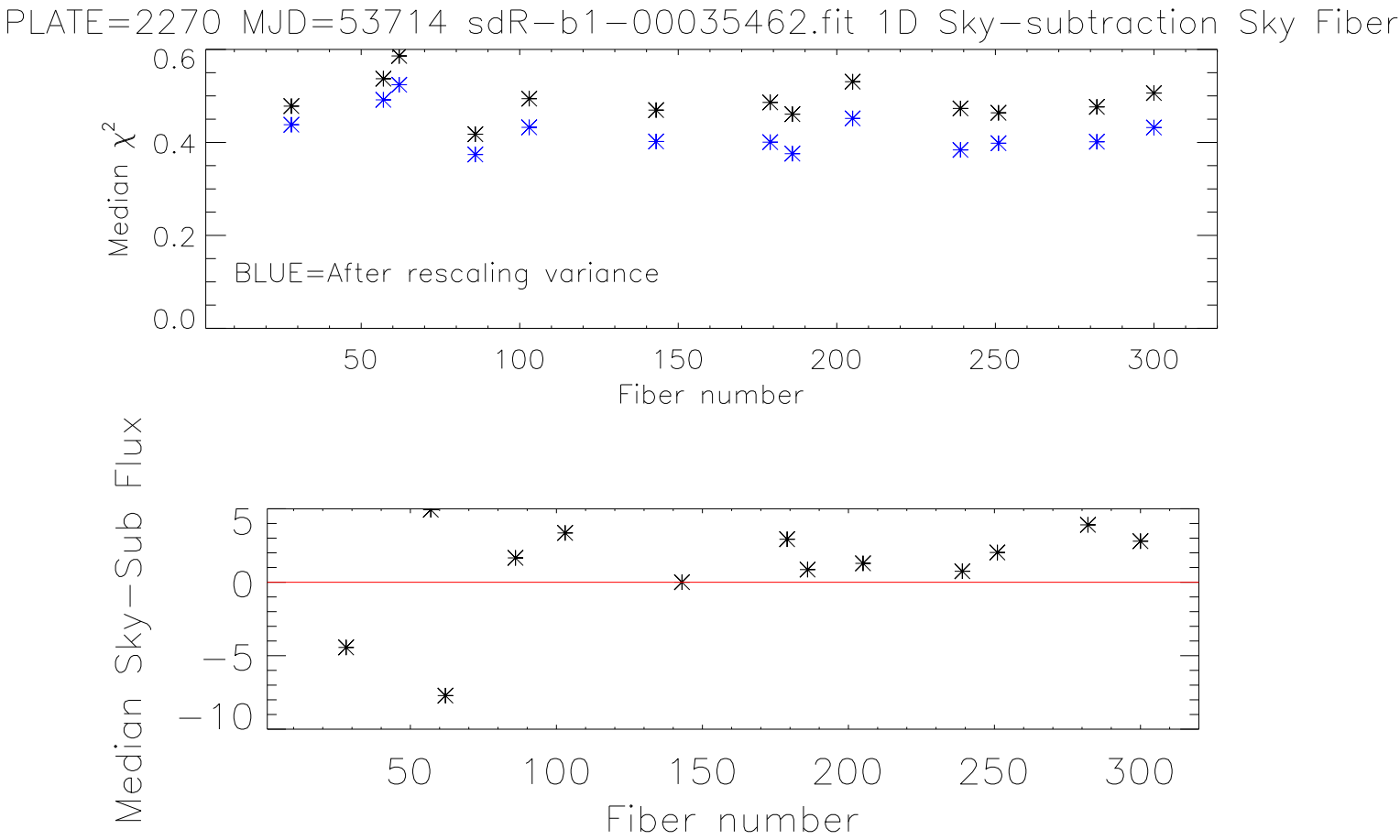

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

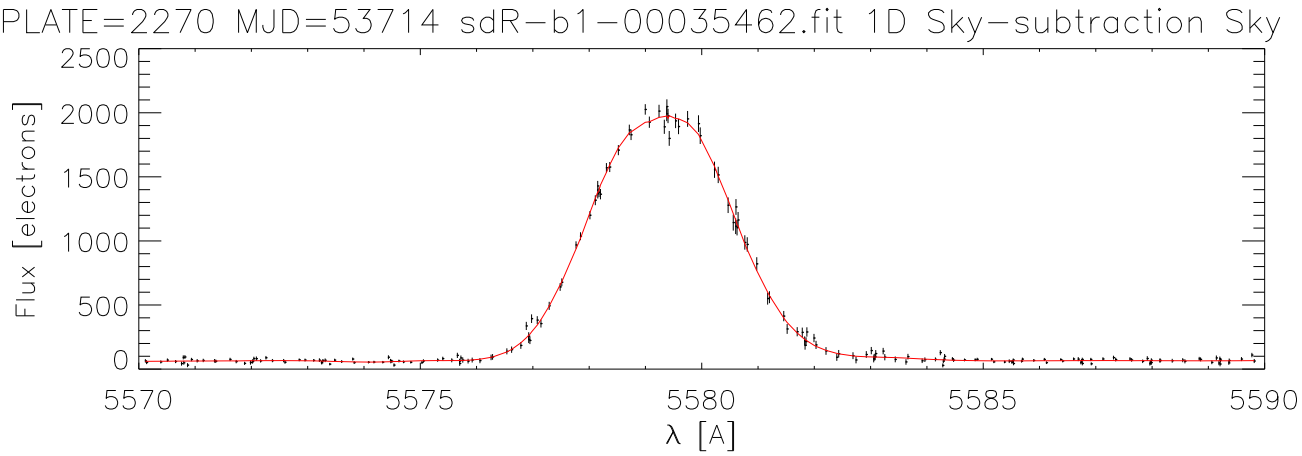

4046.5600
nfib1 15
nfib2 14
stdev 0.224
extra −0.45
4358.3300
nfib1 15
nfib2 15
stdev 0.115
extra −0.46
5460.9400
nfib1 15
nfib2 15
stdev 0.088
extra −0.22
5577.3390
nfib1 15
nfib2 15
stdev 0.016
extra −0.14
5889.9500
nfib1 15
nfib2 15
stdev 0.029
extra 0.02
5895.9240
nfib1 15
nfib2 15
stdev 0.035
extra 0.02
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

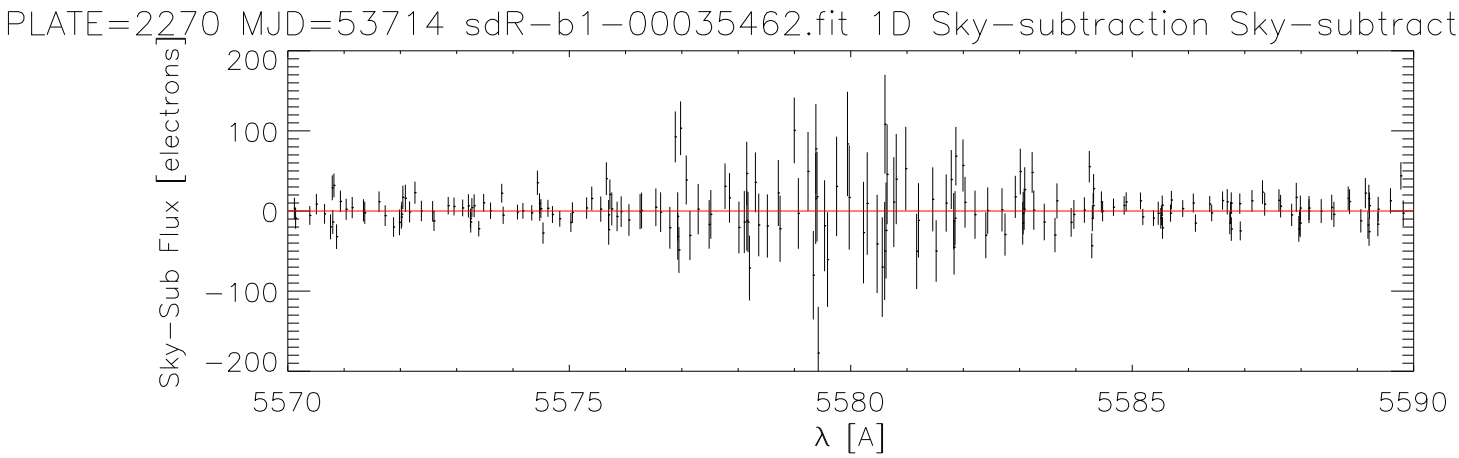

0.0
−0.2
−0.4
−0.6
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

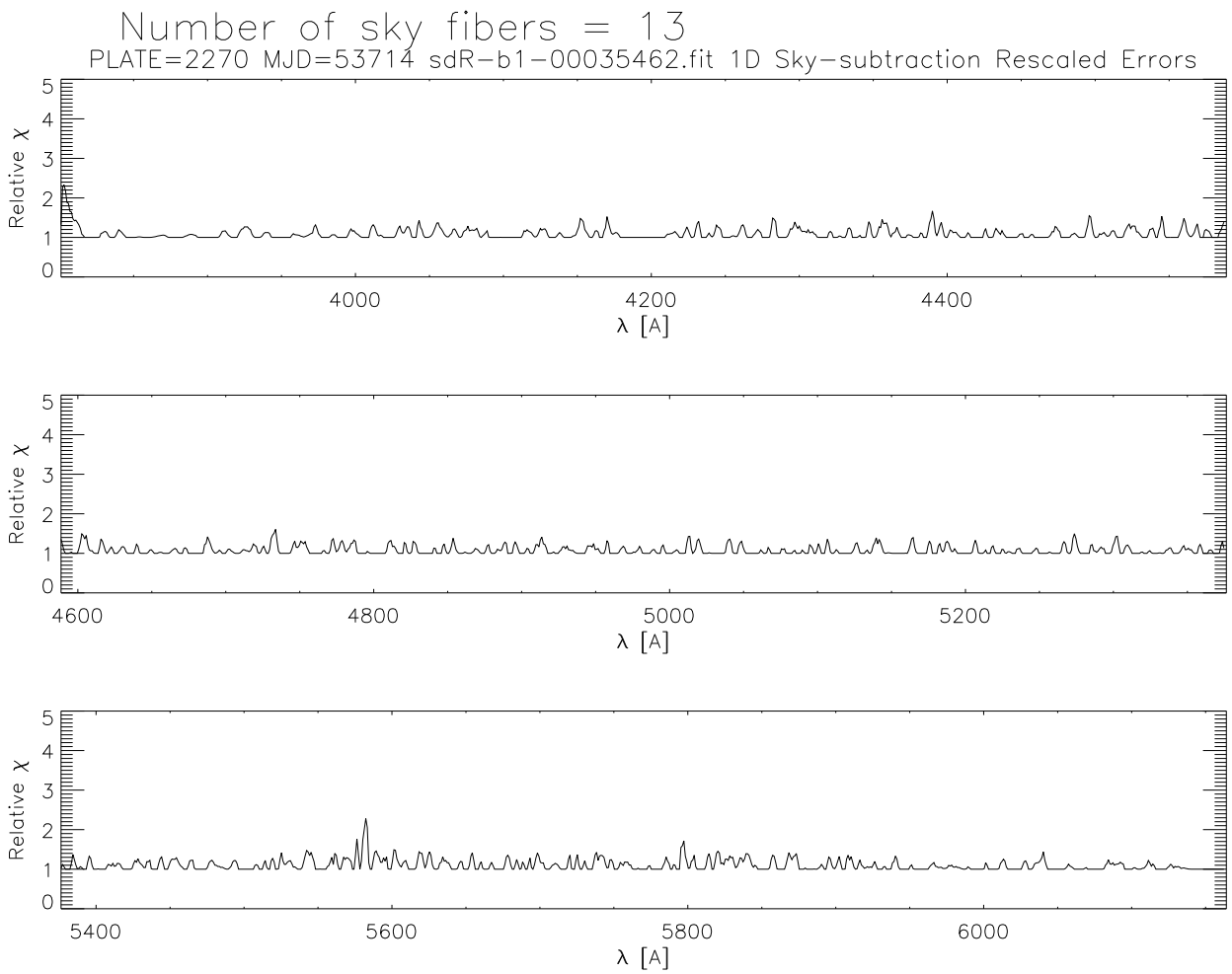
es= −0.0000

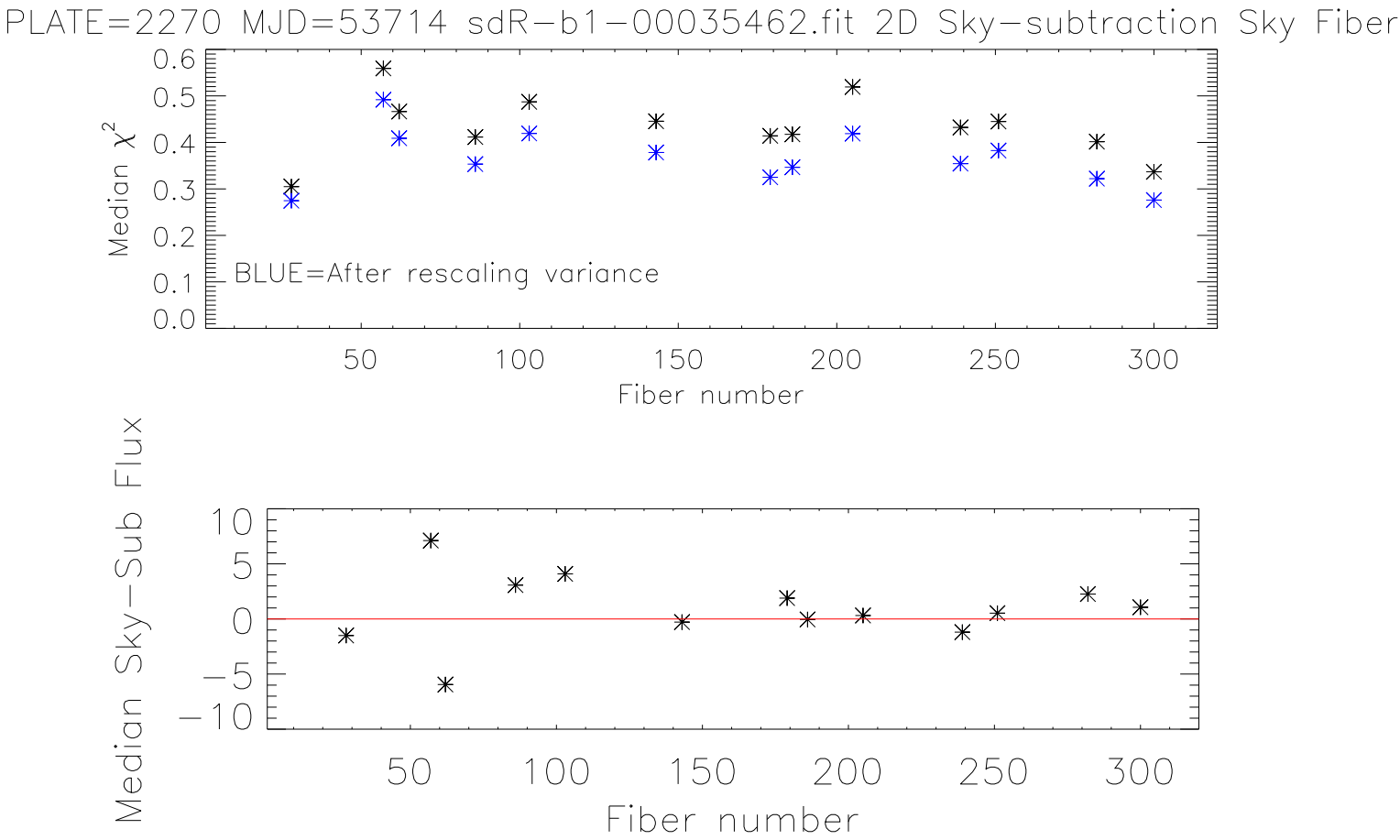

PLATE=2270 MJD=53714 Smooth superflat for sdR−b1−00035462.fit
1.5
1.0
0.5
0.0
1.02
1.01
1.00
0.99
0.98
4000
4500
5000
5500
6000
Wavelength (Å)

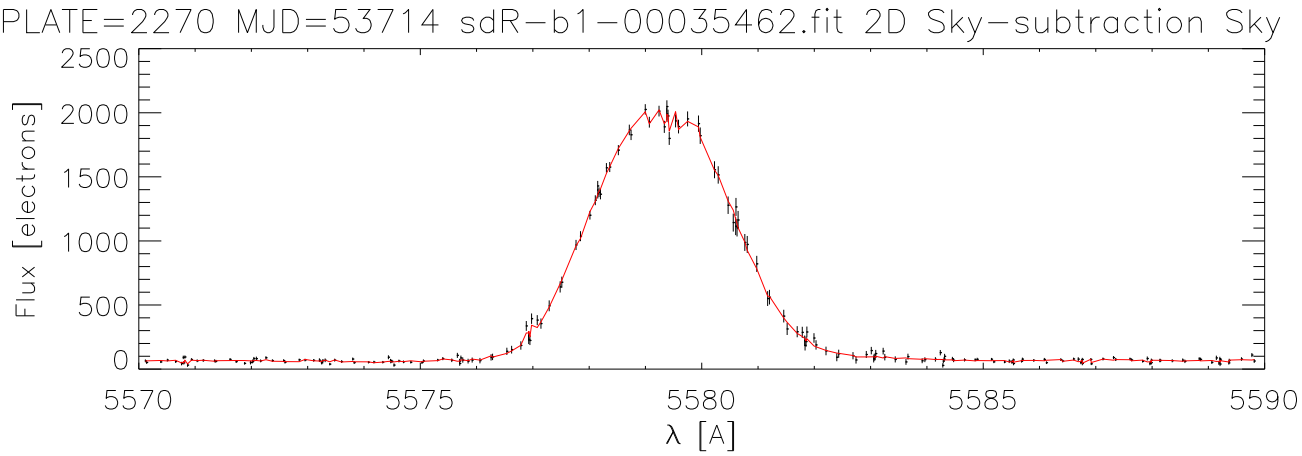

PLATE=2270 MJD=53714 sdR-b1-00035462.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
5
0
-5
-10
50
100
150
200
250
300
Fiber number

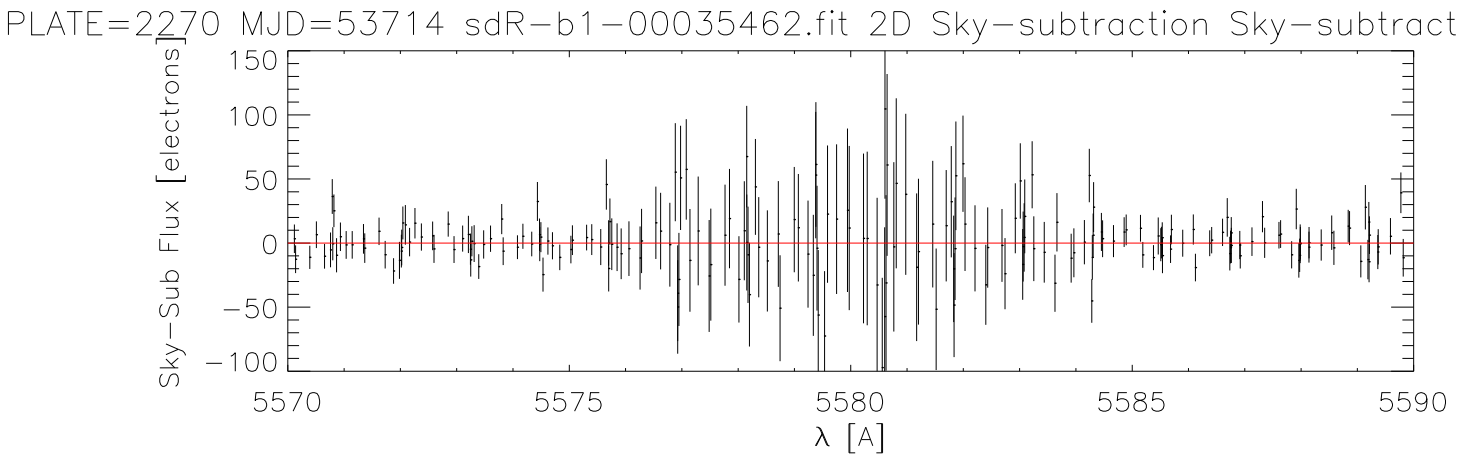

PLATE=2270 MJD=53714 sdR-b1-00035462.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

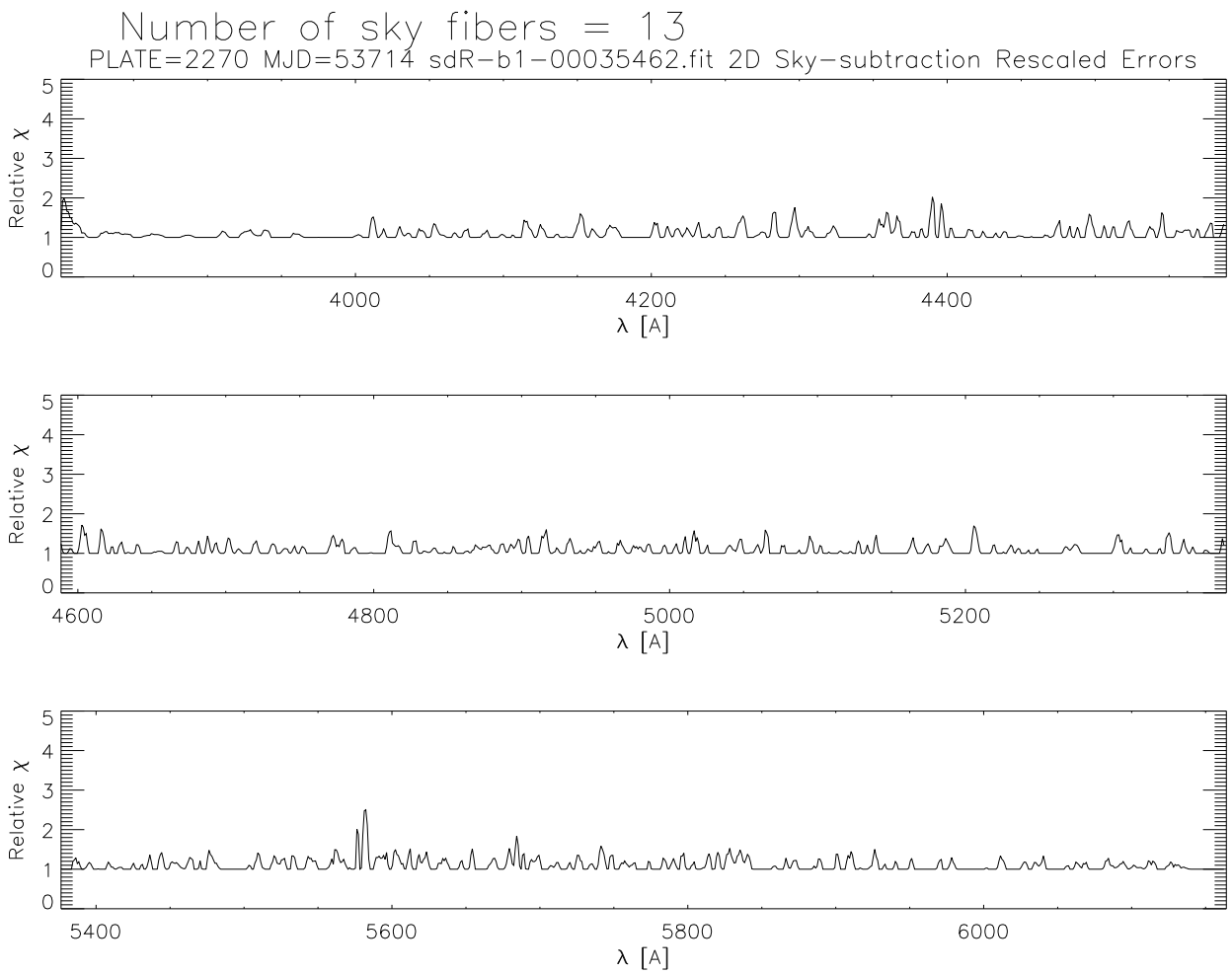

PLATE=2270 MJD=53714 sdR-b1-00035462.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

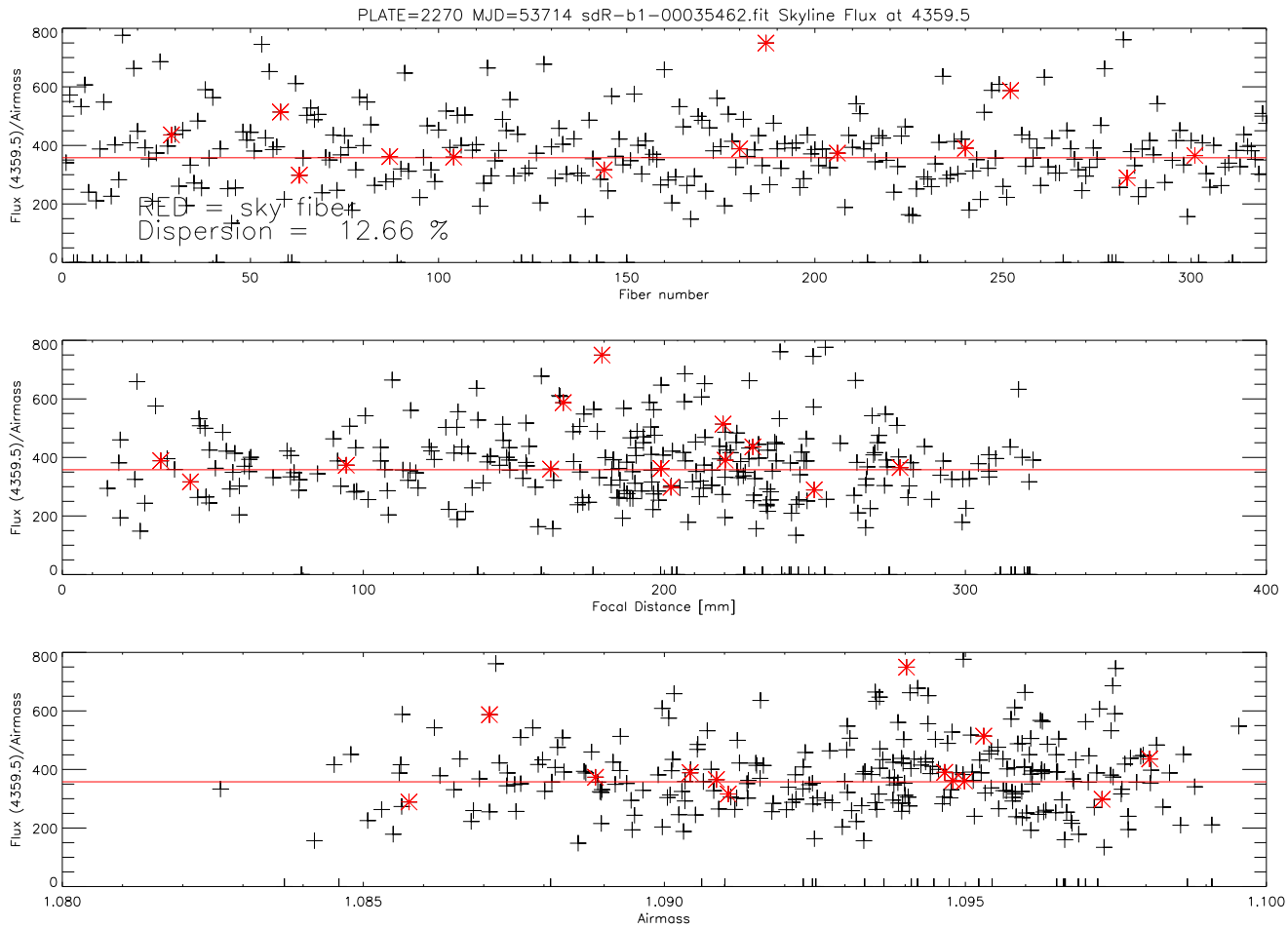

Number of sky fibers = 13
PLATE=2270 MJD=53714 sdR-b1-00035462.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

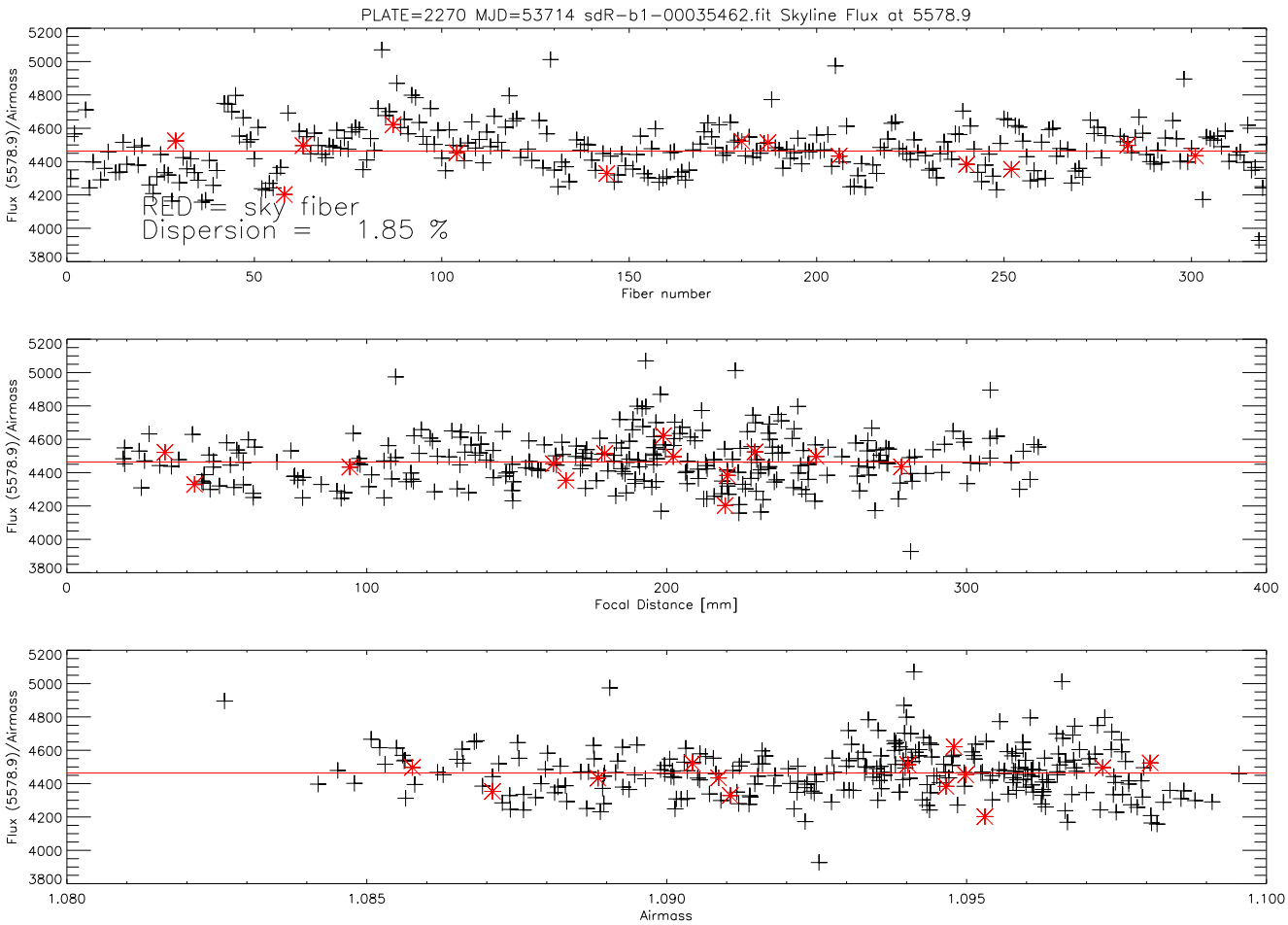

PLATE=2270 MJD=53714 sdR-b1-00035462.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

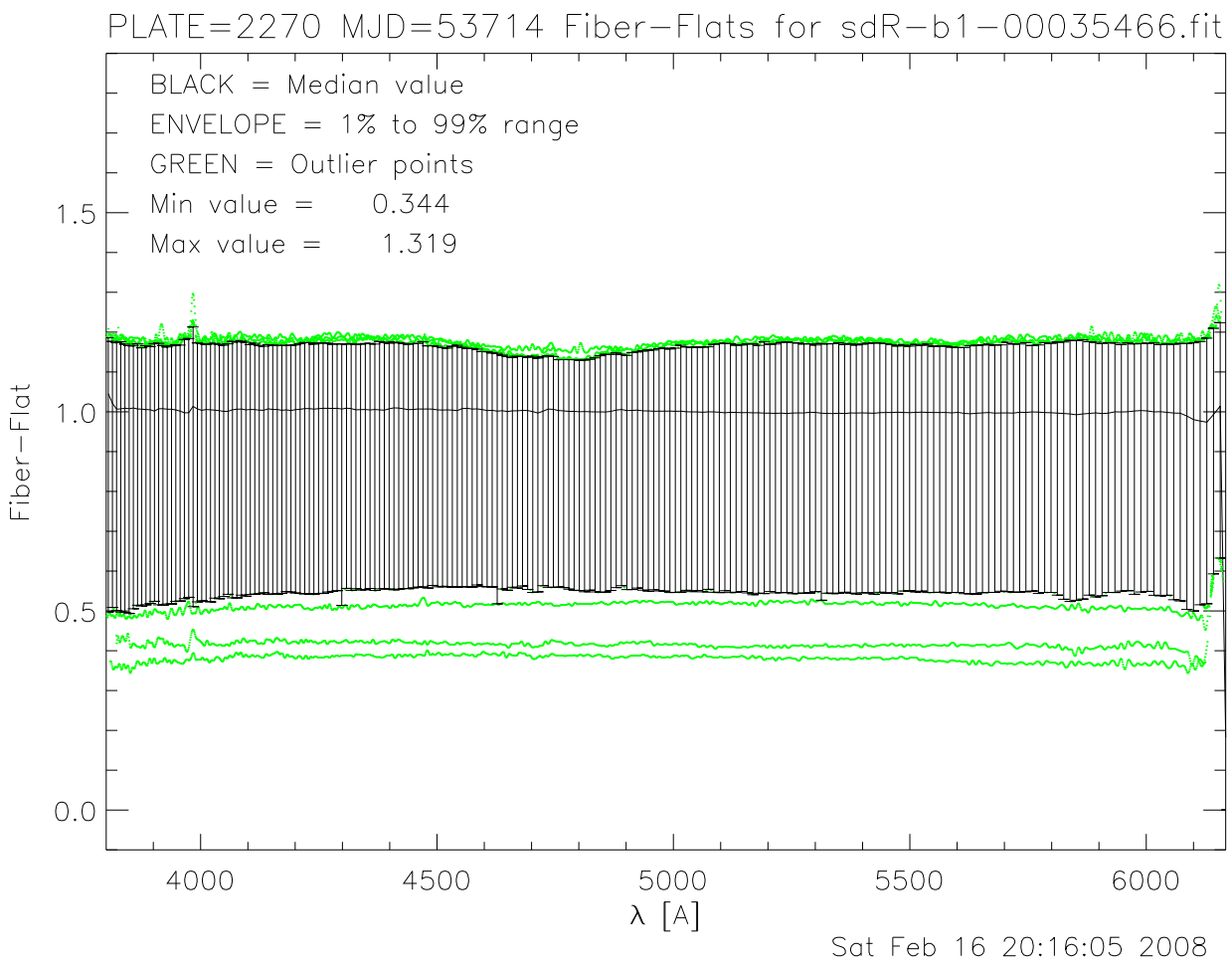

PLATE=2270 MJD=53714 sdR-b1-00035462.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

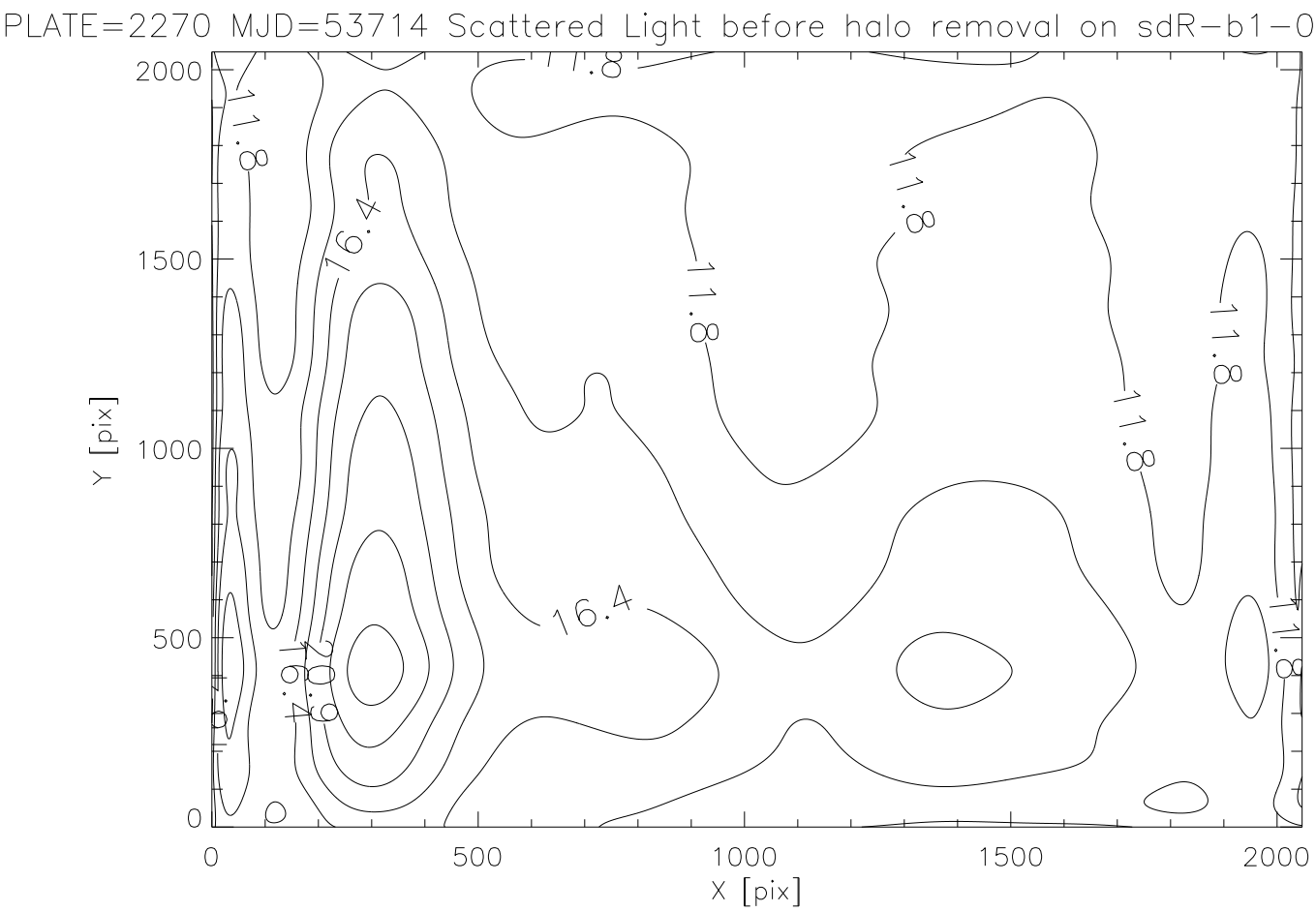

PLATE=2270 MJD=53714 sdR-b1-00035462.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
5570
5575
5580
5585
5590
λ [A]

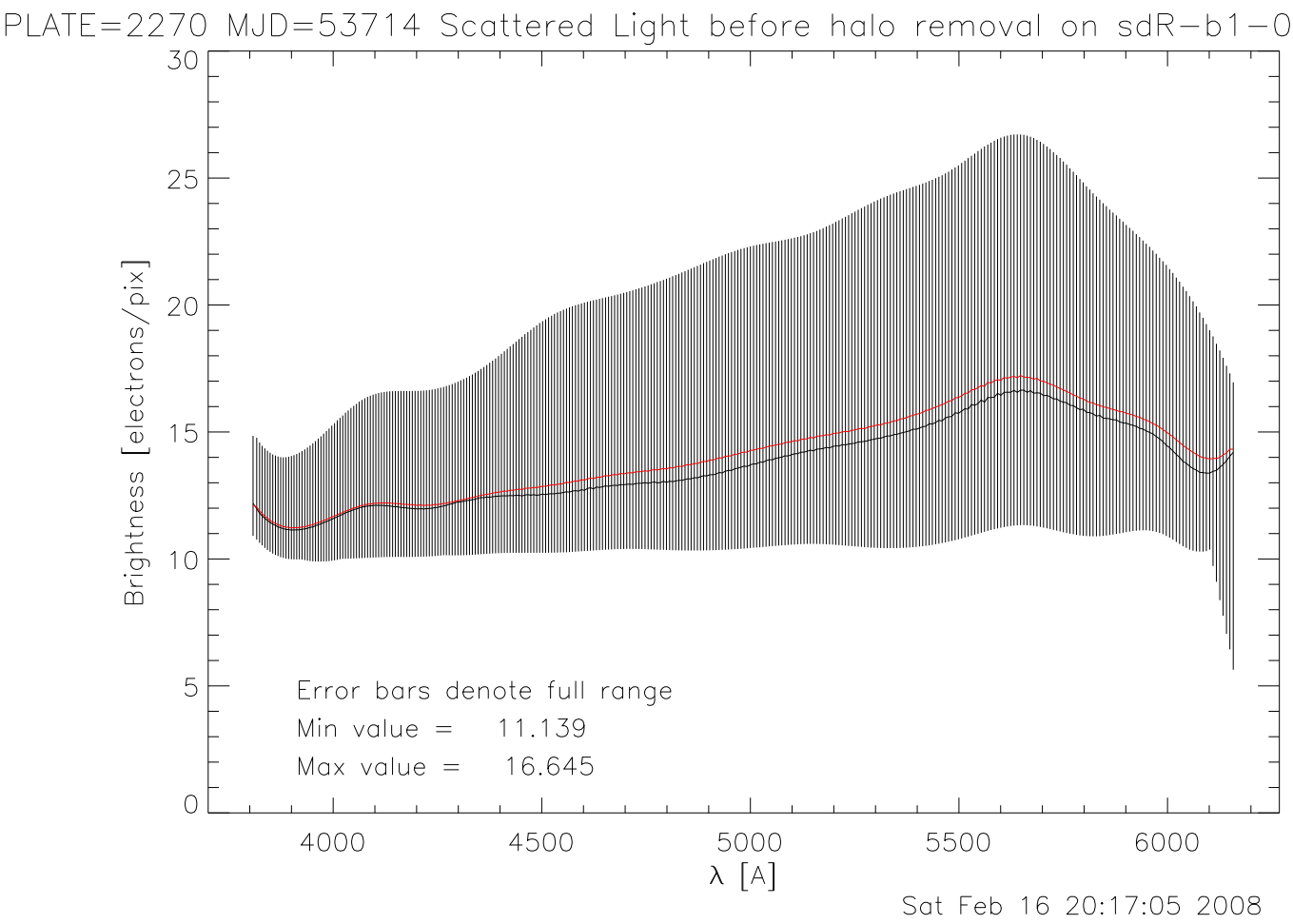

Number of sky fibers = 13
PLATE=2270 MJD=53714 sdR-b1-00035462.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

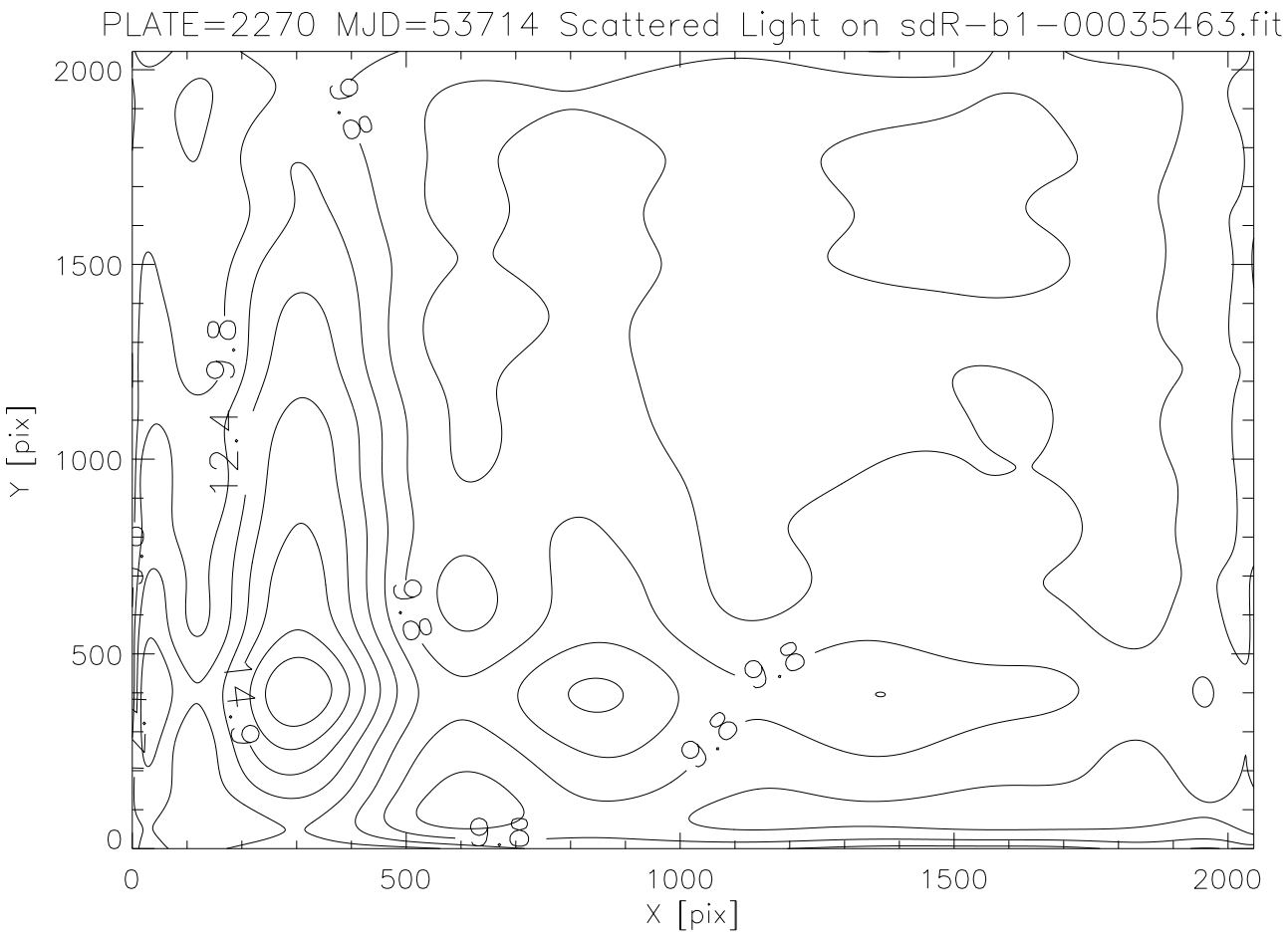

PLATE=2270 MJD=53714 sdR-b1-00035462.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 12.66 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

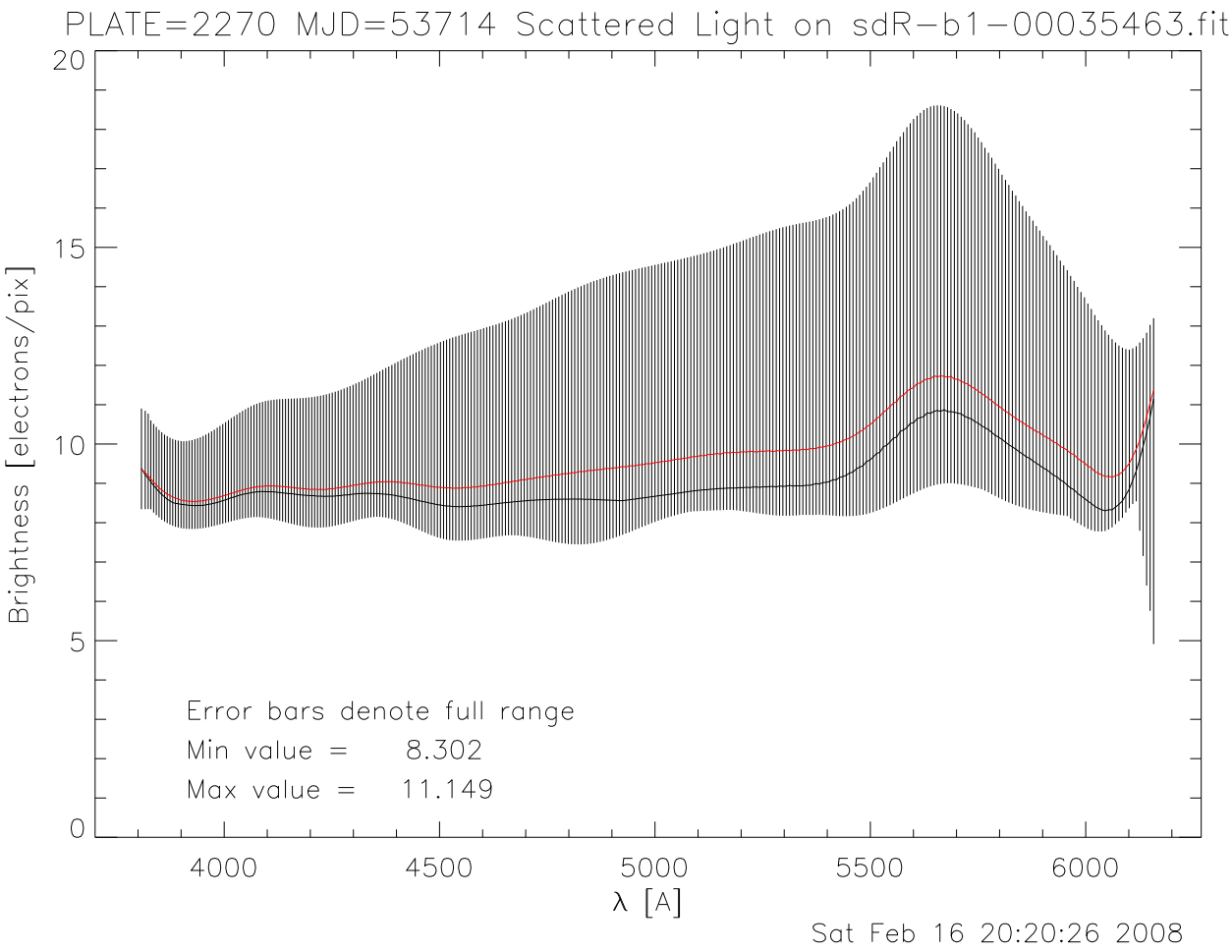

PLATE=2270 MJD=53714 sdR-b1-00035462.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.85 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

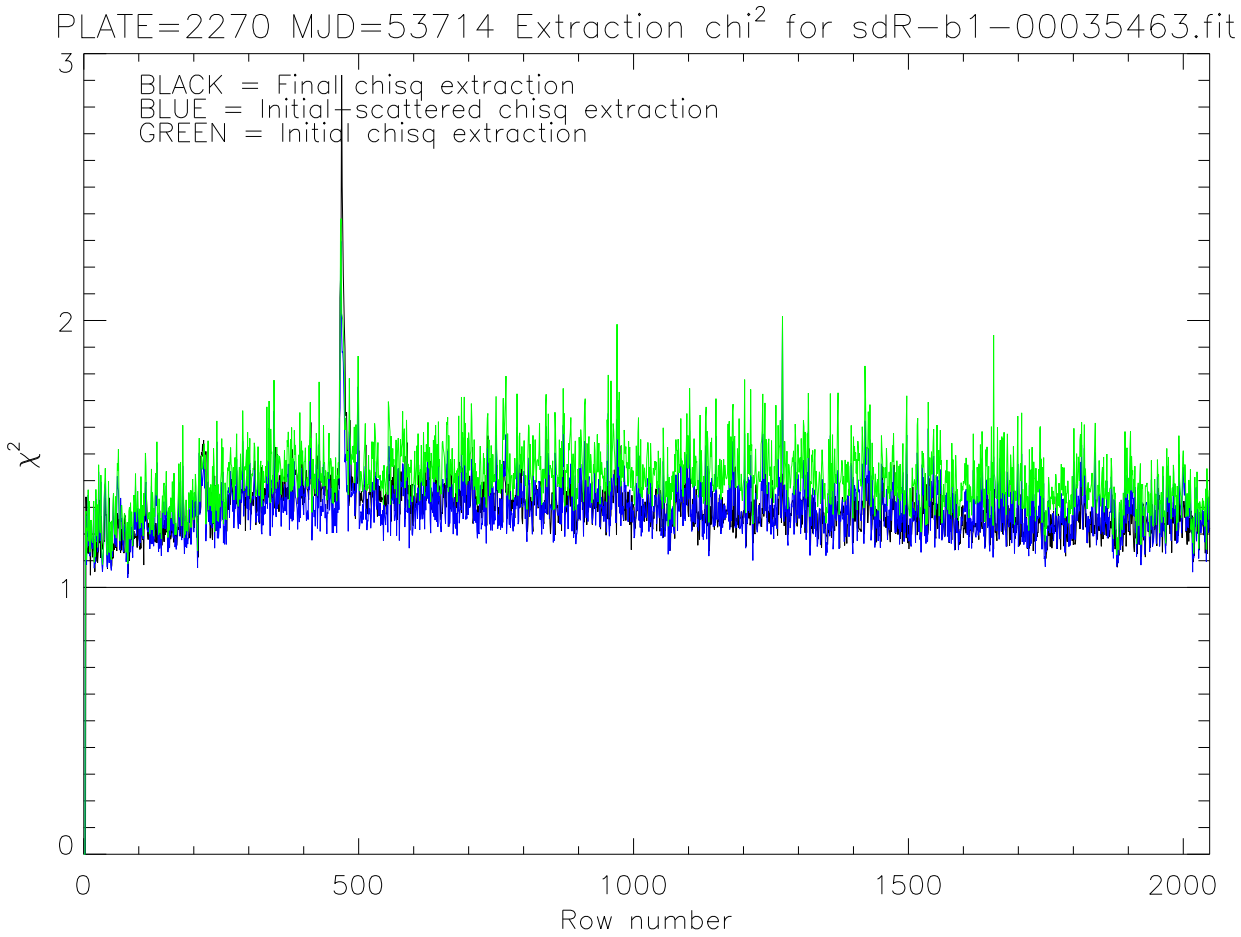

PLATE=2270 MJD=53714 Fiber−Flats for sdR−b1−00035466.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.344
Max value = 1.319
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 20:16:05 2008

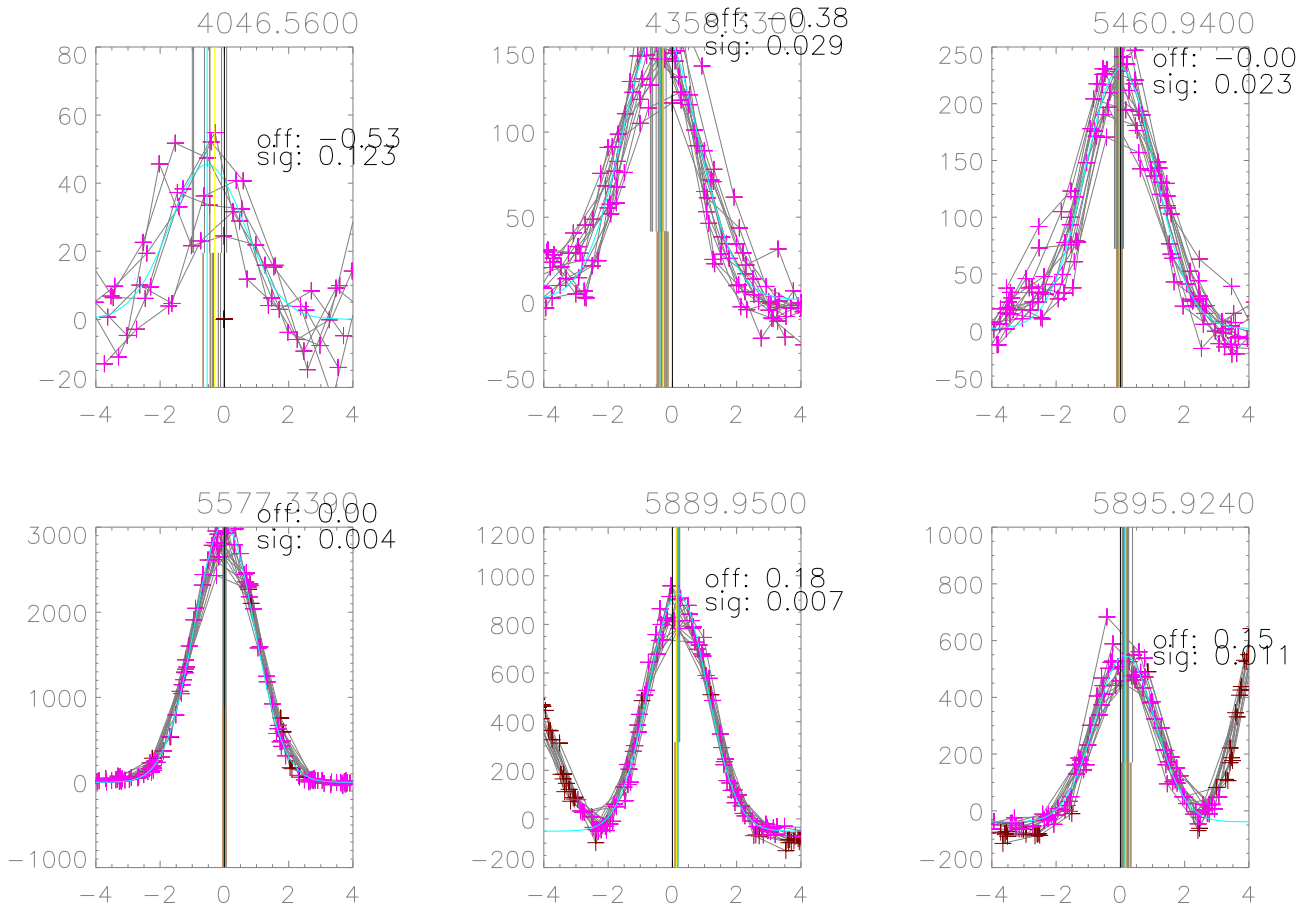

PLATE=2270 MJD=53714 Scattered Light before halo removal on sdR−b1−00035463.f
Y [pix]
X [pix]
0
500
1000
1500
2000
11.8
16.4
21.0

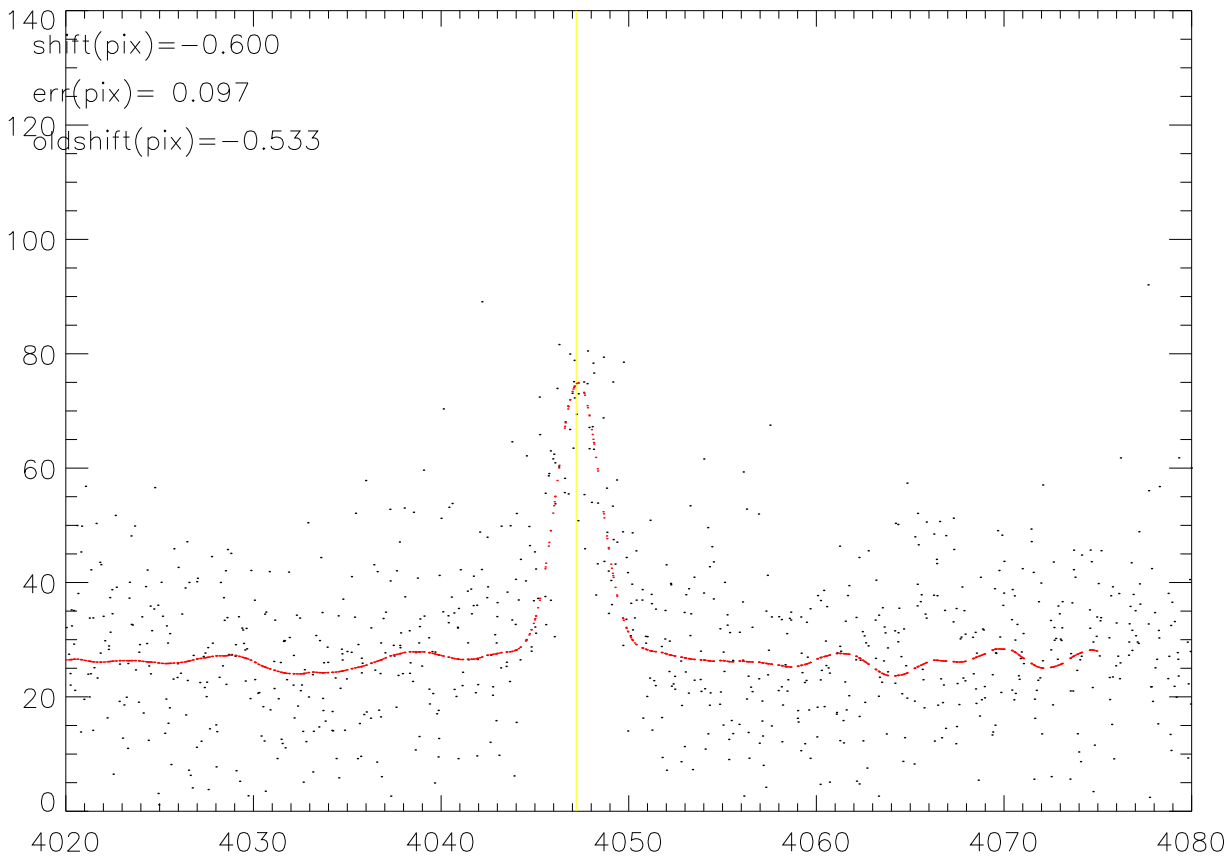

PLATE=2270 MJD=53714 Scattered Light before halo removal on sdR-b1-00035463.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 11.139
Max value = 16.645
Sat Feb 16 20:17:05 2008

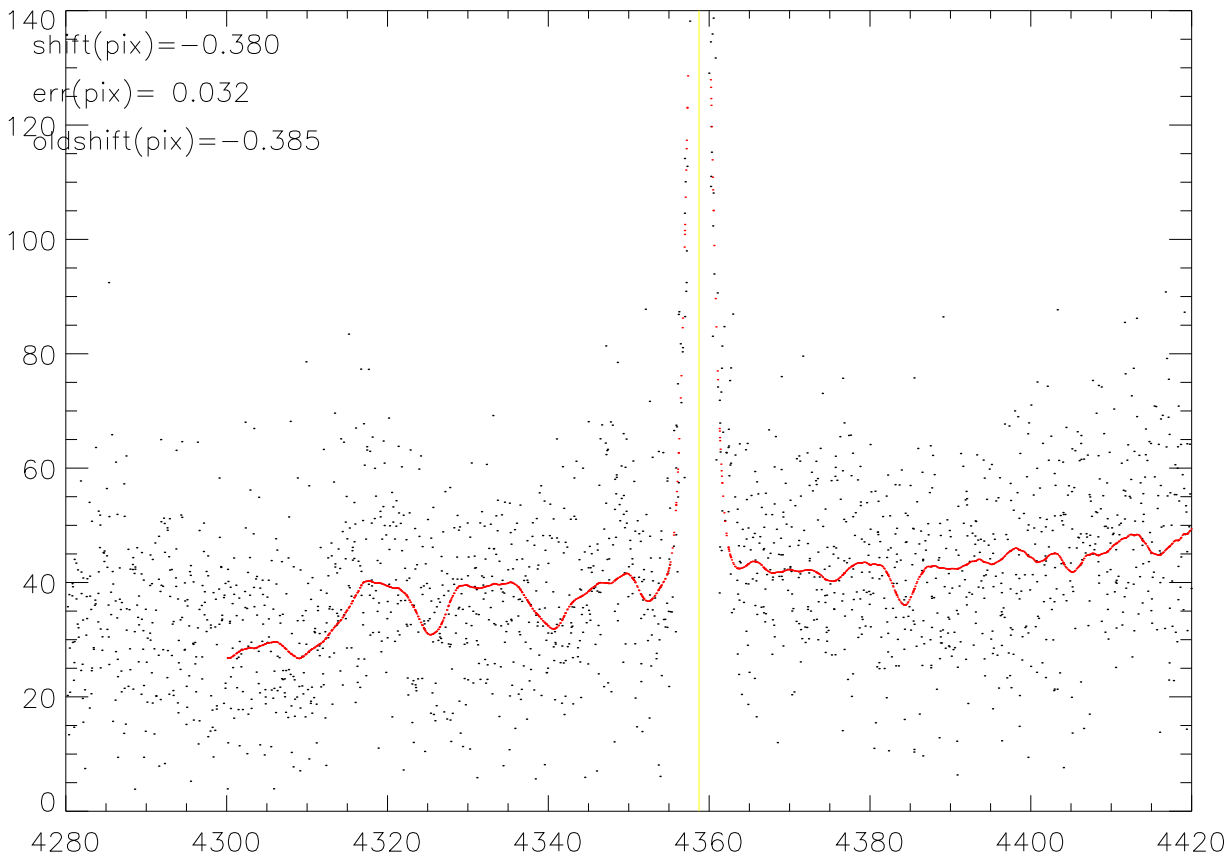

PLATE=2270 MJD=53714 Scattered Light on sdR-b1-00035463.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
9.8
12.4
14.9
0

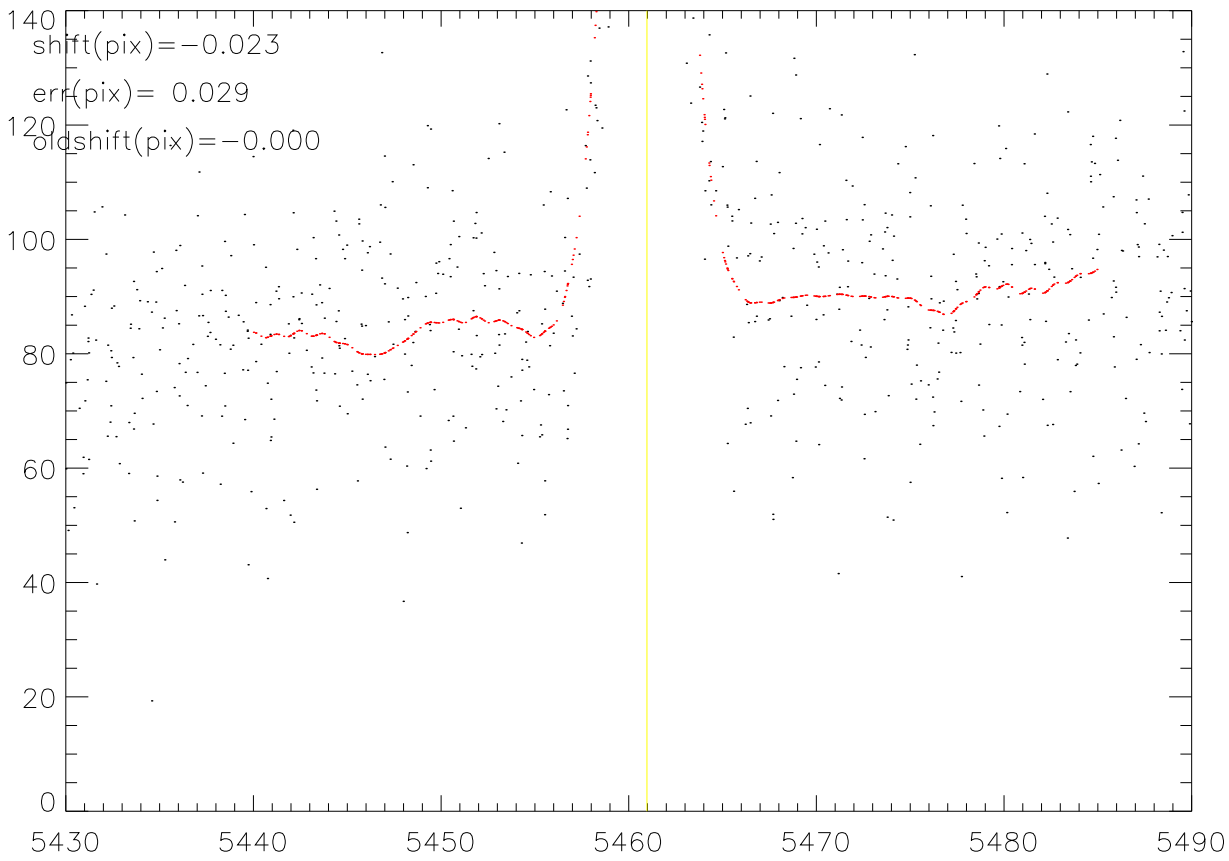

PLATE=2270 MJD=53714 Scattered Light on sdR-b1-00035463.fit
Brightness [electrons/pix]
20
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 8.302
Max value = 11.149
Sat Feb 16 20:20:26 2008

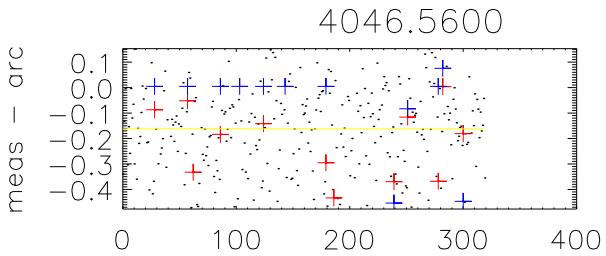

PLATE=2270 MJD=53714 Extraction chi^2 for sdR-b1-00035463.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
0
500
1000
1500
2000
Row number

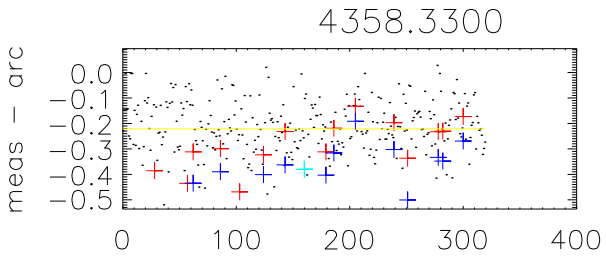

4046.5600
off: −0.53
sig: 0.123
4358.3300
off: −0.38
sig: 0.029
5460.9400
off: −0.00
sig: 0.023
5577.3390
off: 0.00
sig: 0.004
5889.9500
off: 0.18
sig: 0.007
5895.9240
off: 0.15
sig: 0.011

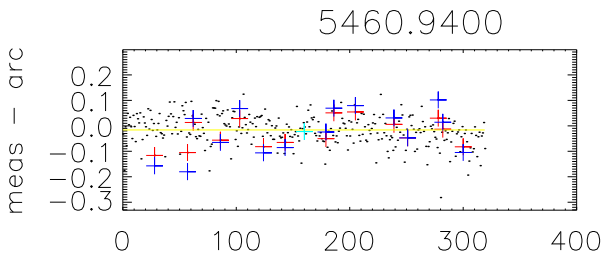

shift(pix)=−0.600
err(pix)= 0.097
oldshift(pix)=−0.533
140
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

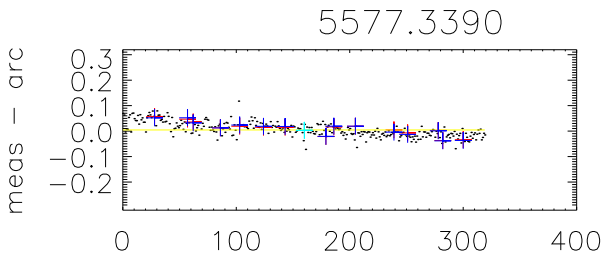

shift(pix)=−0.380
err(pix)= 0.032
oldshift(pix)=−0.385
140
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

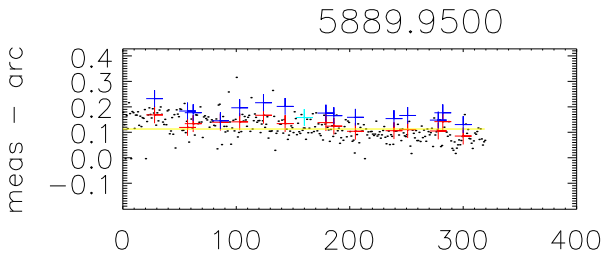

shift(pix)=−0.023
err(pix)= 0.029
oldshift(pix)=−0.000
140
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

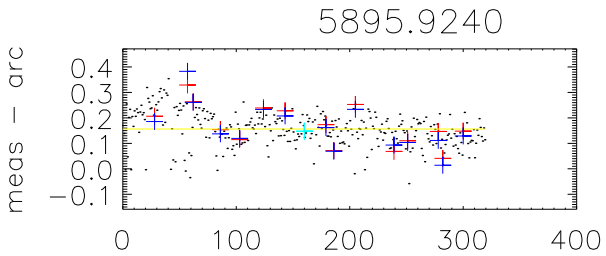

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

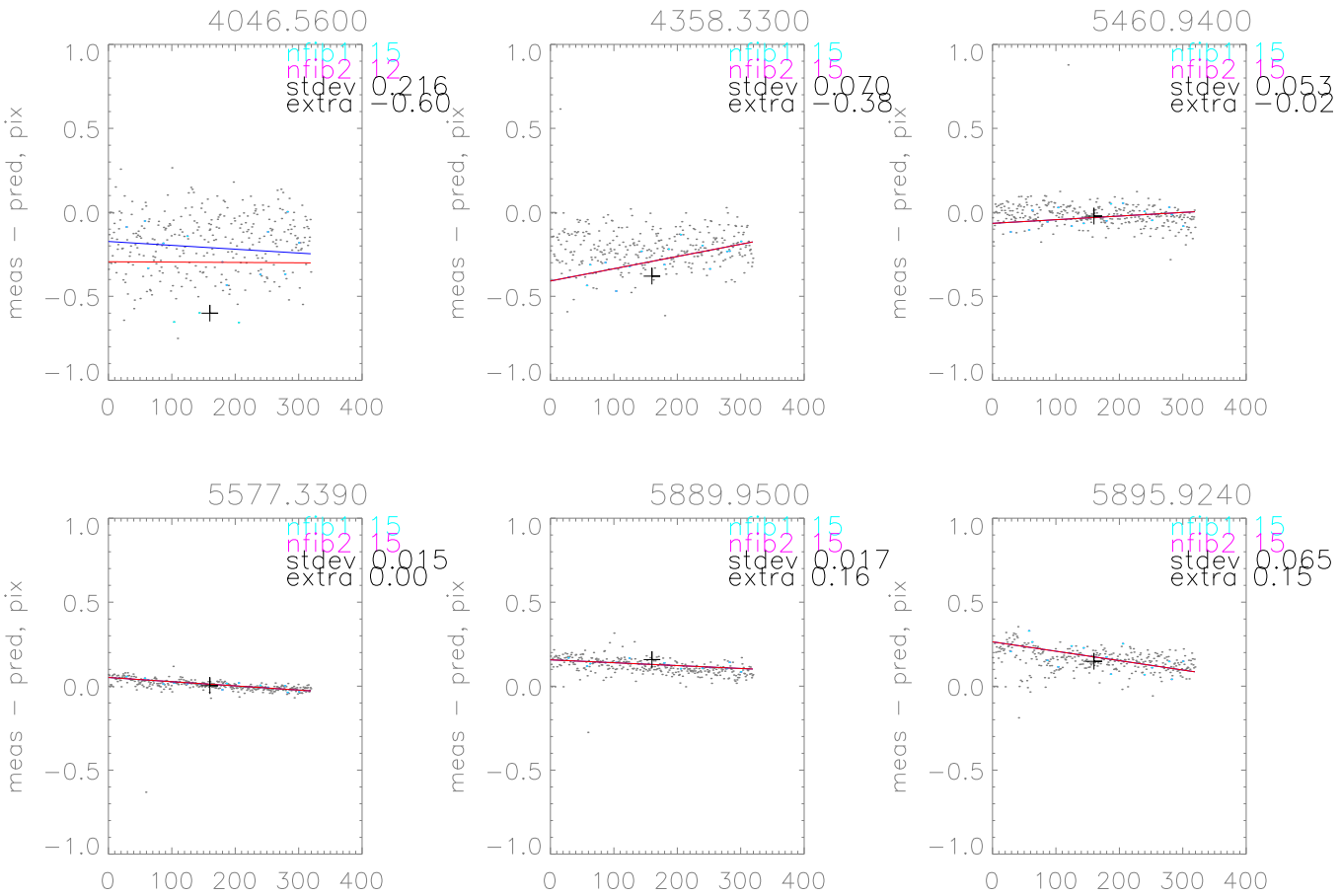

4358.3300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

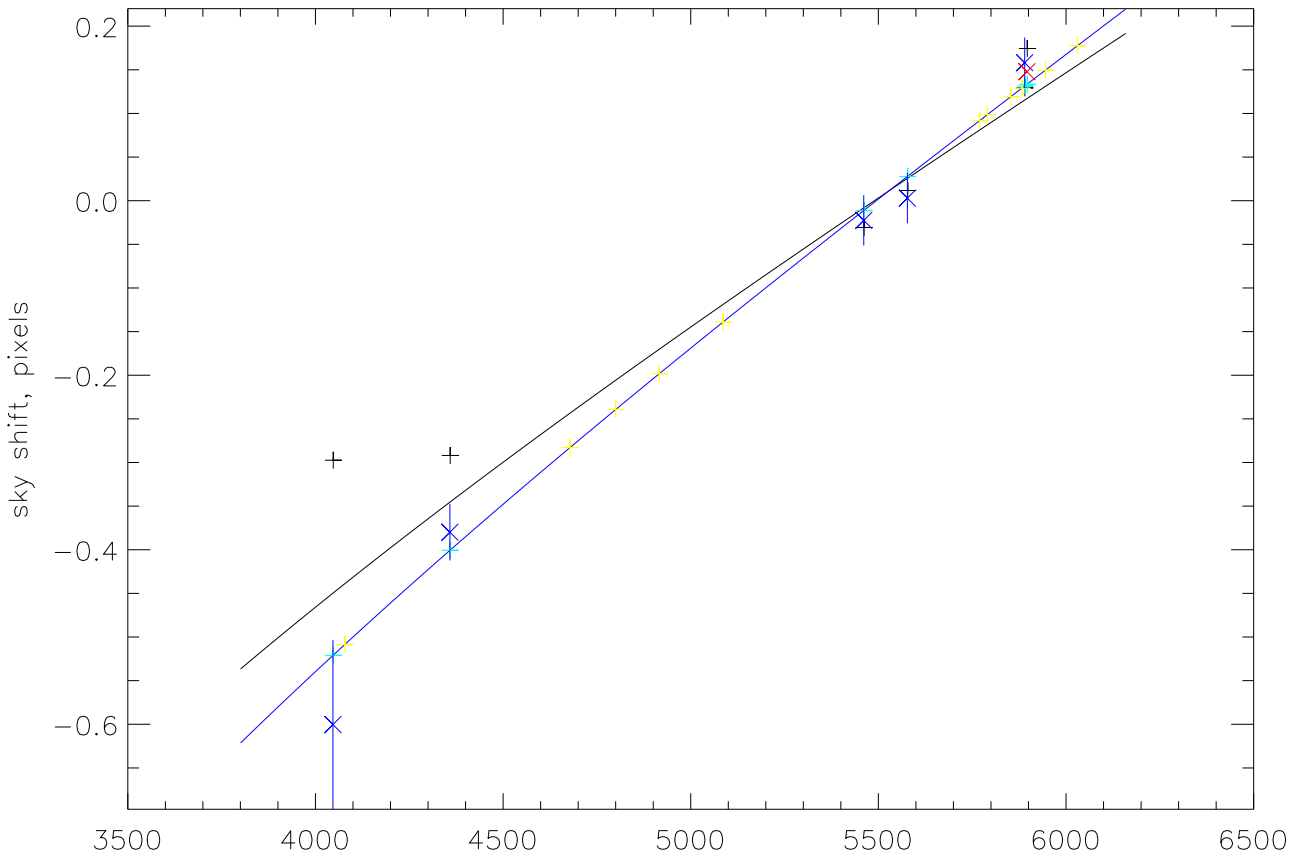

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

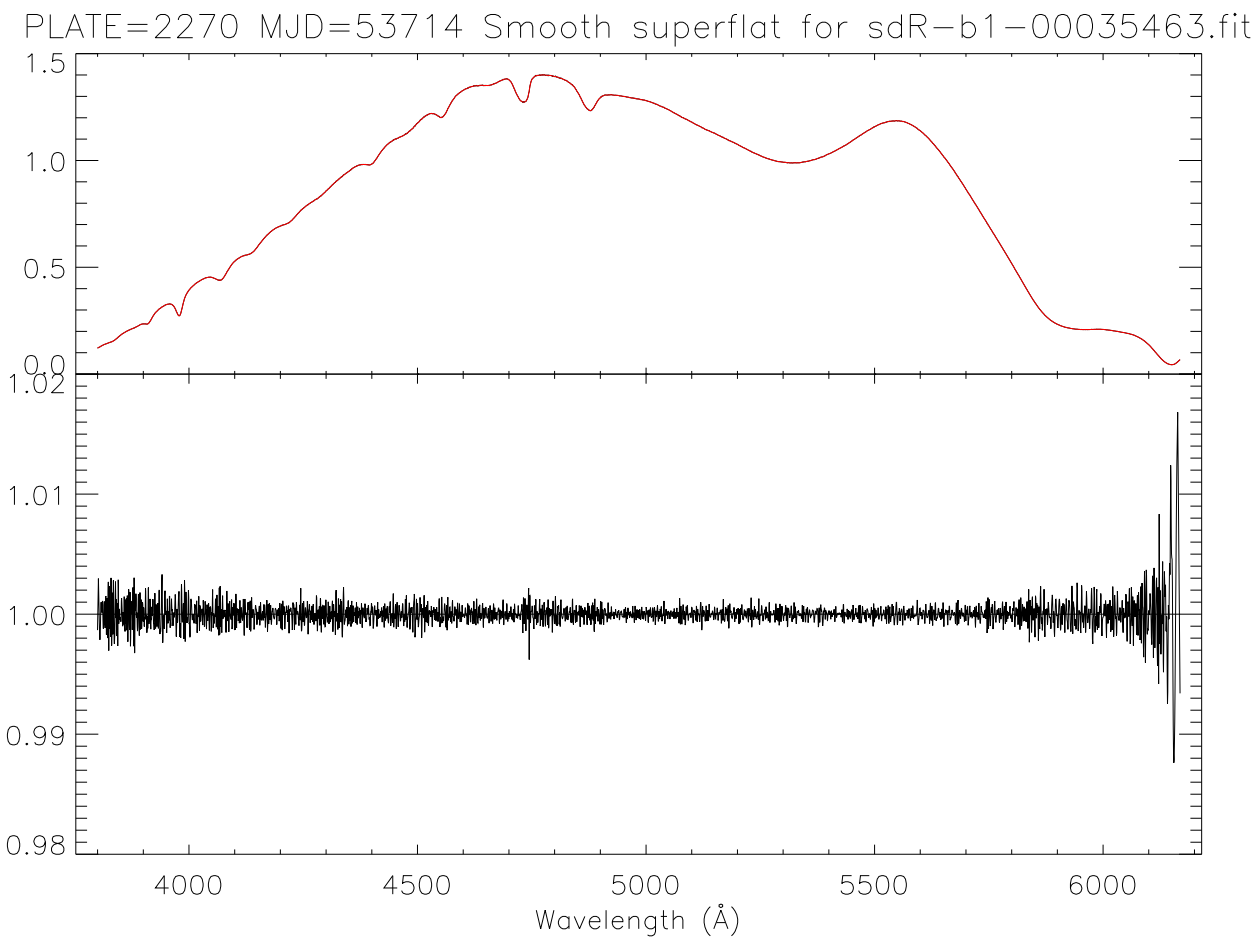

5889.9500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

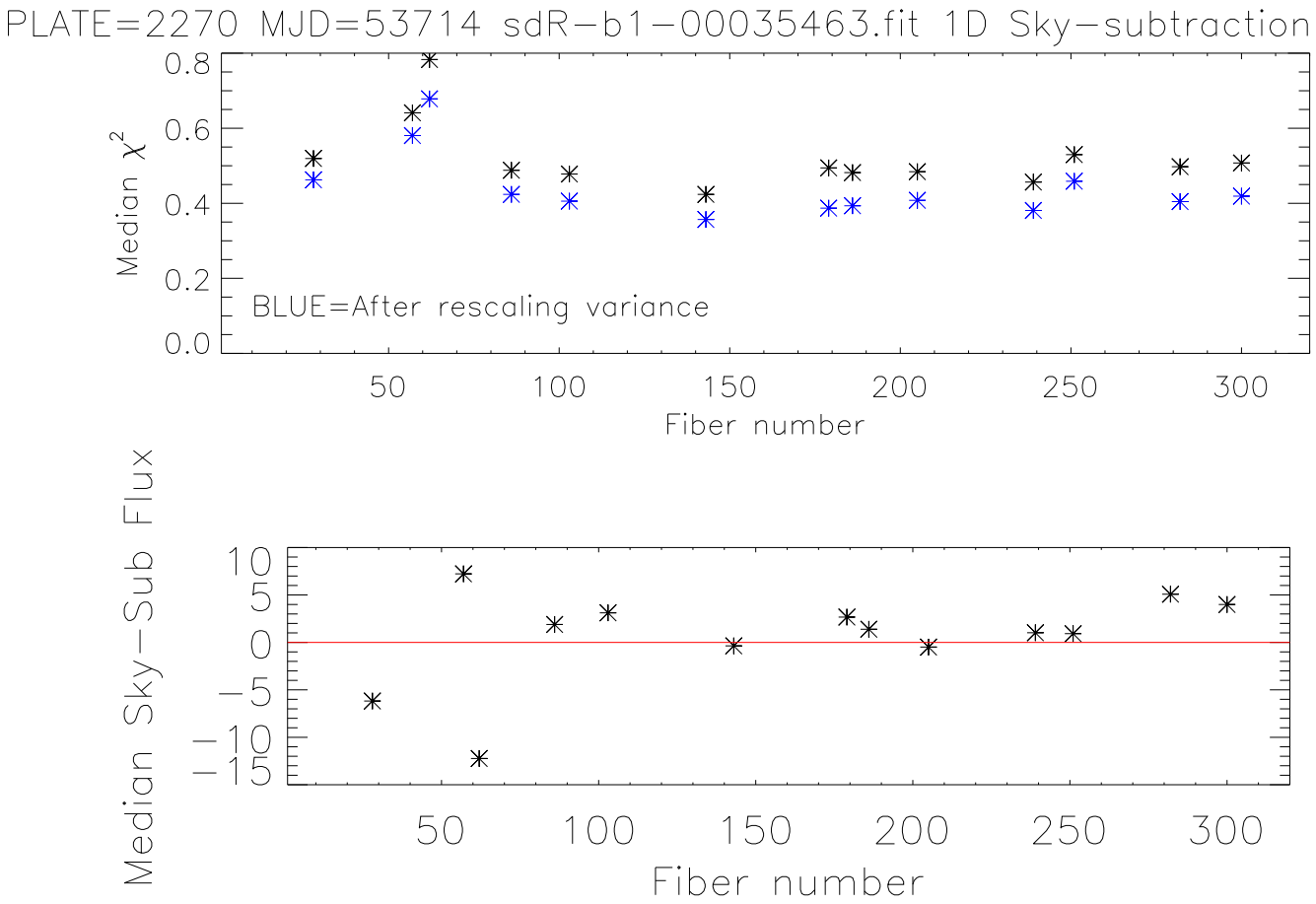

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

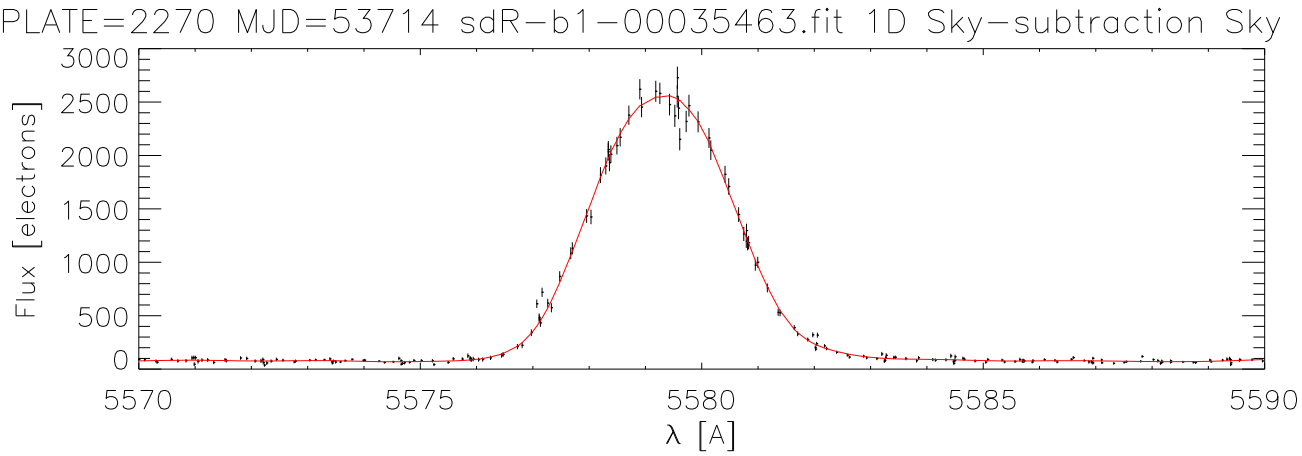

4046.5600
nfib1 15
nfib2 12
stdev 0.216
extra −0.60
4358.3300
nfib1 15
nfib2 15
stdev 0.070
extra −0.38
5460.9400
nfib1 15
nfib2 15
stdev 0.053
extra −0.02
5577.3390
nfib1 15
nfib2 15
stdev 0.015
extra 0.00
5889.9500
nfib1 15
nfib2 15
stdev 0.017
extra 0.16
5895.9240
nfib1 15
nfib2 15
stdev 0.065
extra 0.15
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

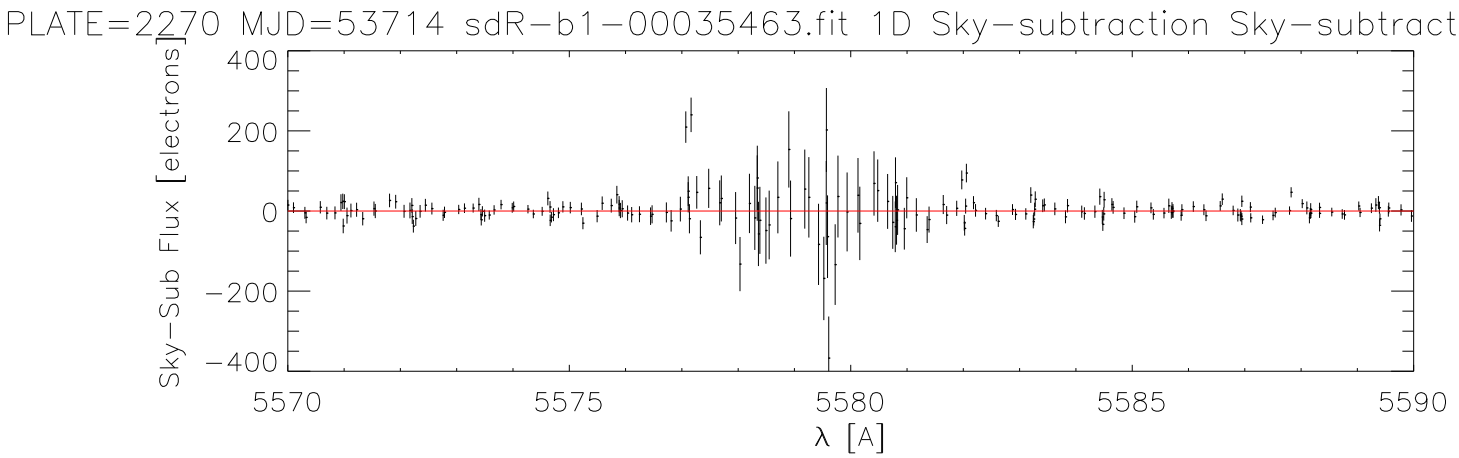

0.2
0.0
−0.2
−0.4
−0.6
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

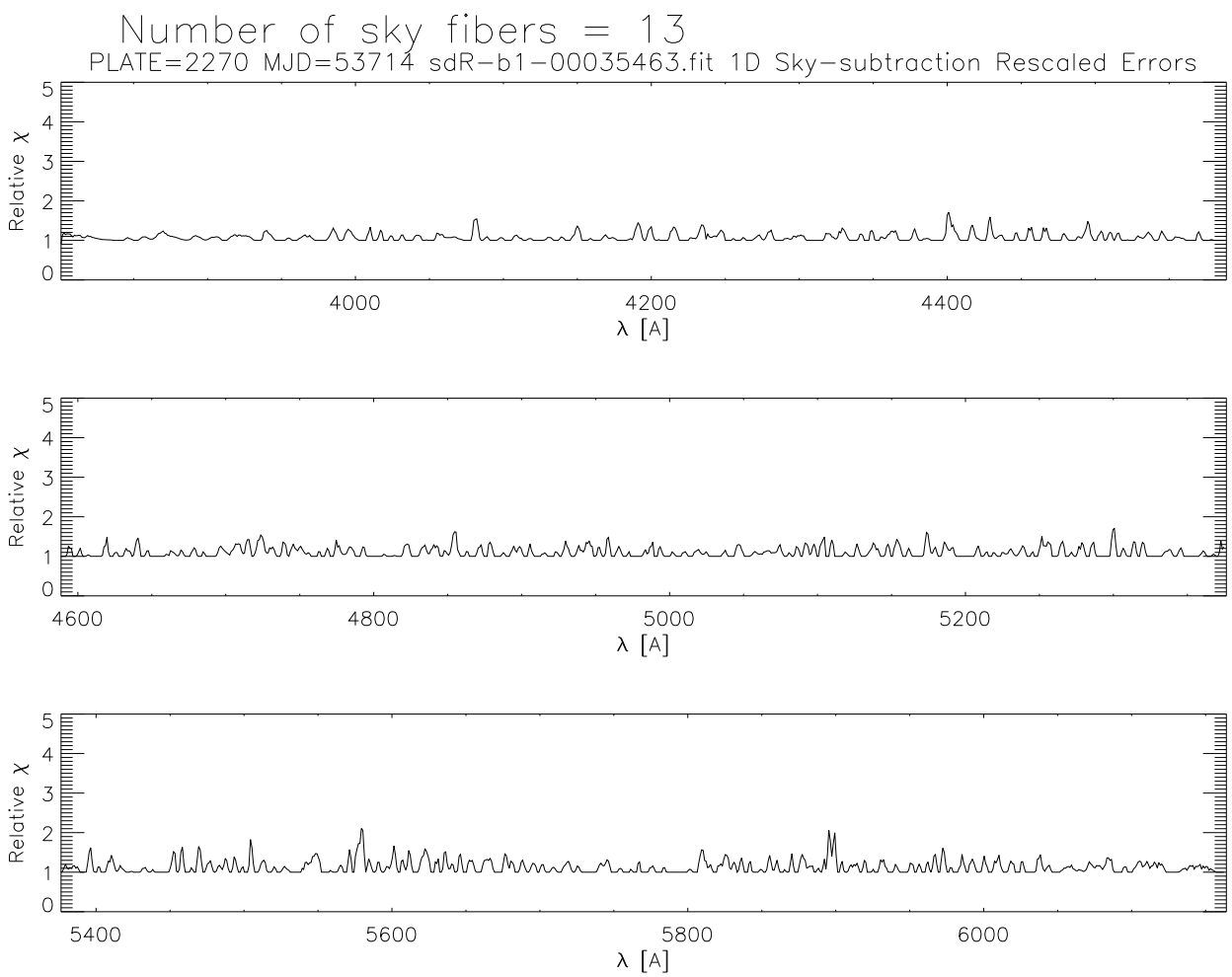
es= −0.0001

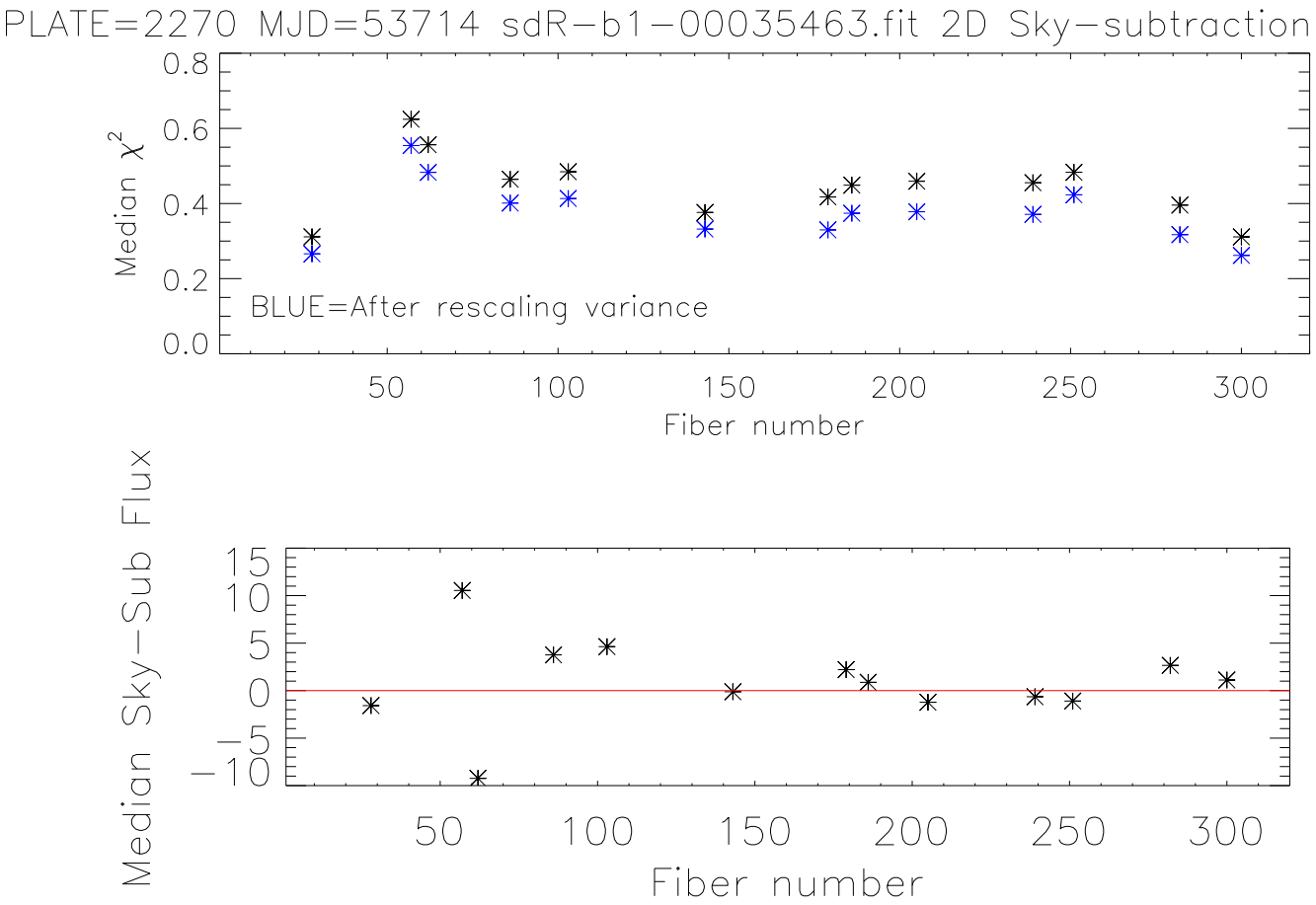

PLATE=2270 MJD=53714 Smooth superflat for sdR−b1−00035463.fit
1.5
1.0
0.5
0.0
1.02
1.01
1.00
0.99
0.98
4000
4500
5000
5500
6000
Wavelength (Å)

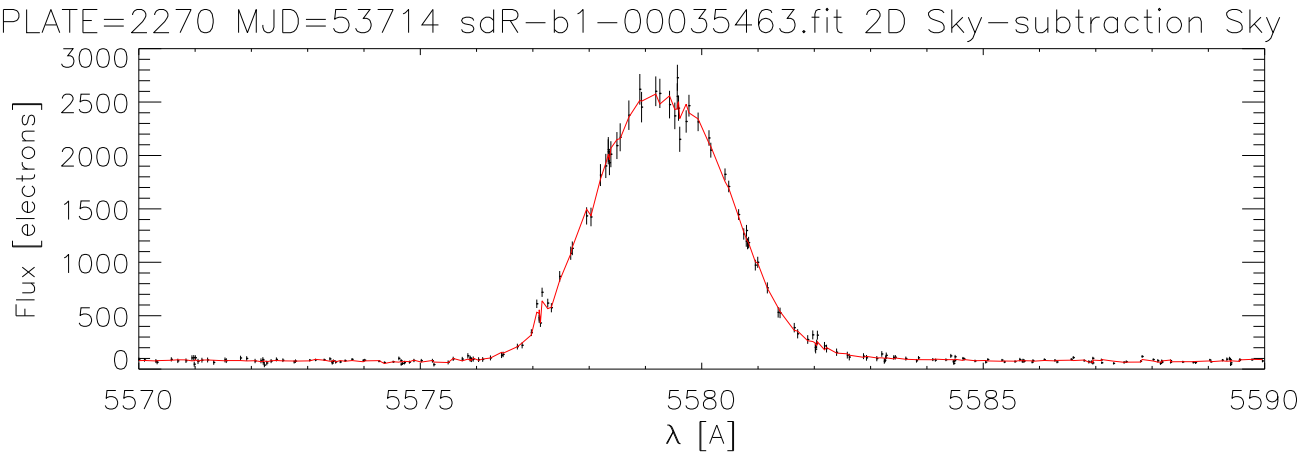

PLATE=2270 MJD=53714 sdR-b1-00035463.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

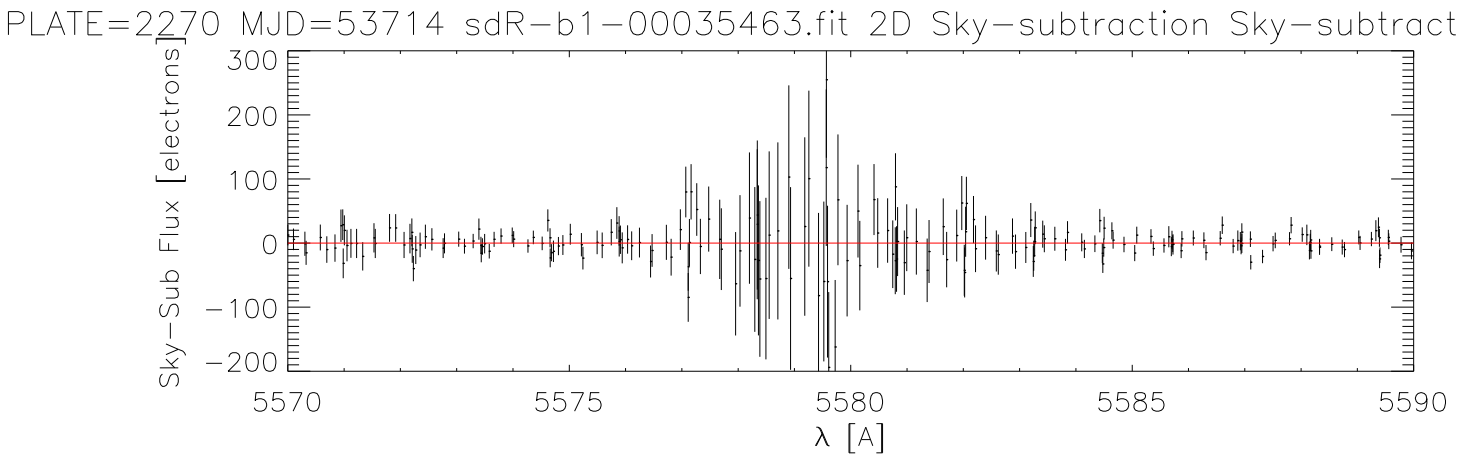

PLATE=2270 MJD=53714 sdR-b1-00035463.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

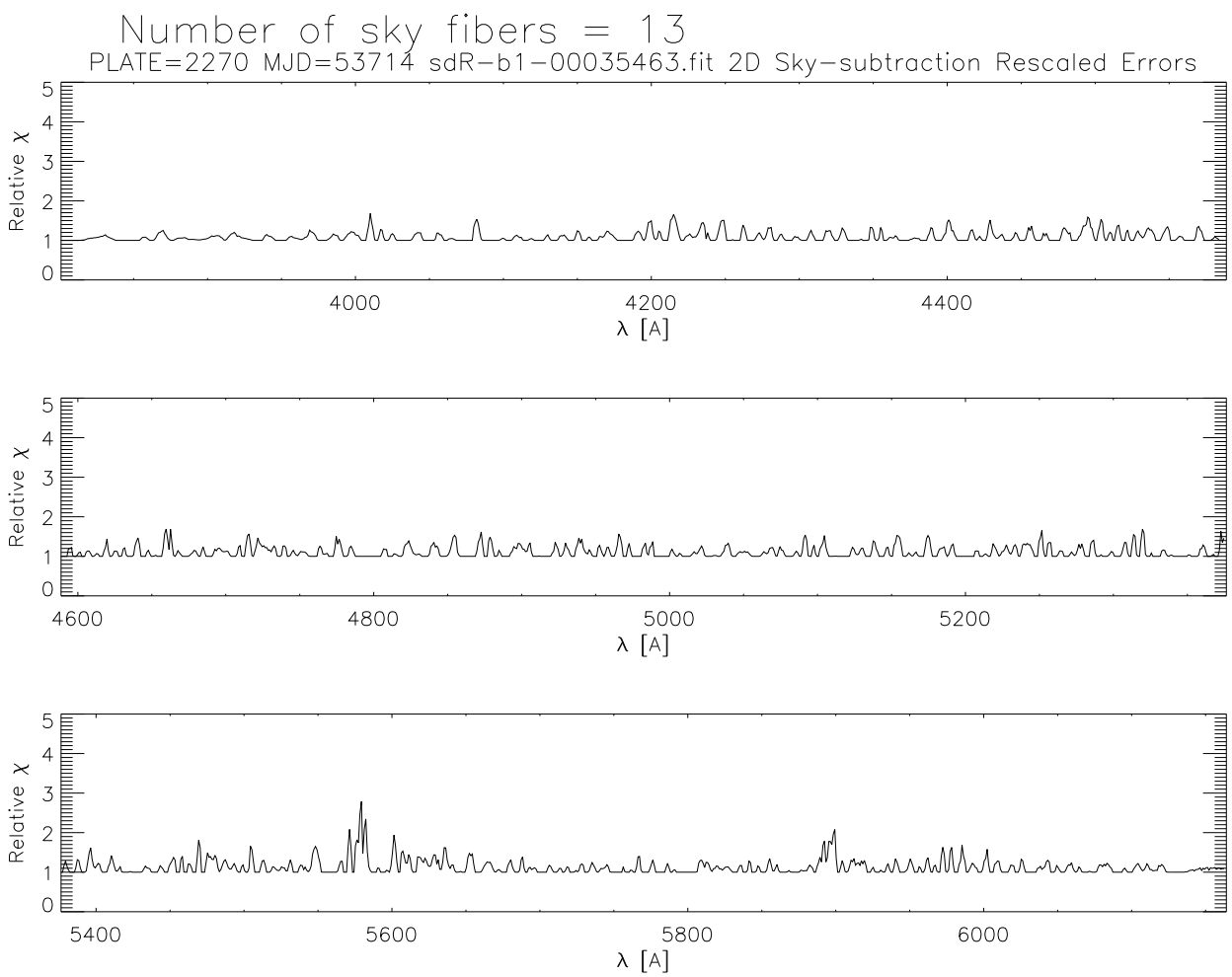

PLATE=2270 MJD=53714 sdR-b1-00035463.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

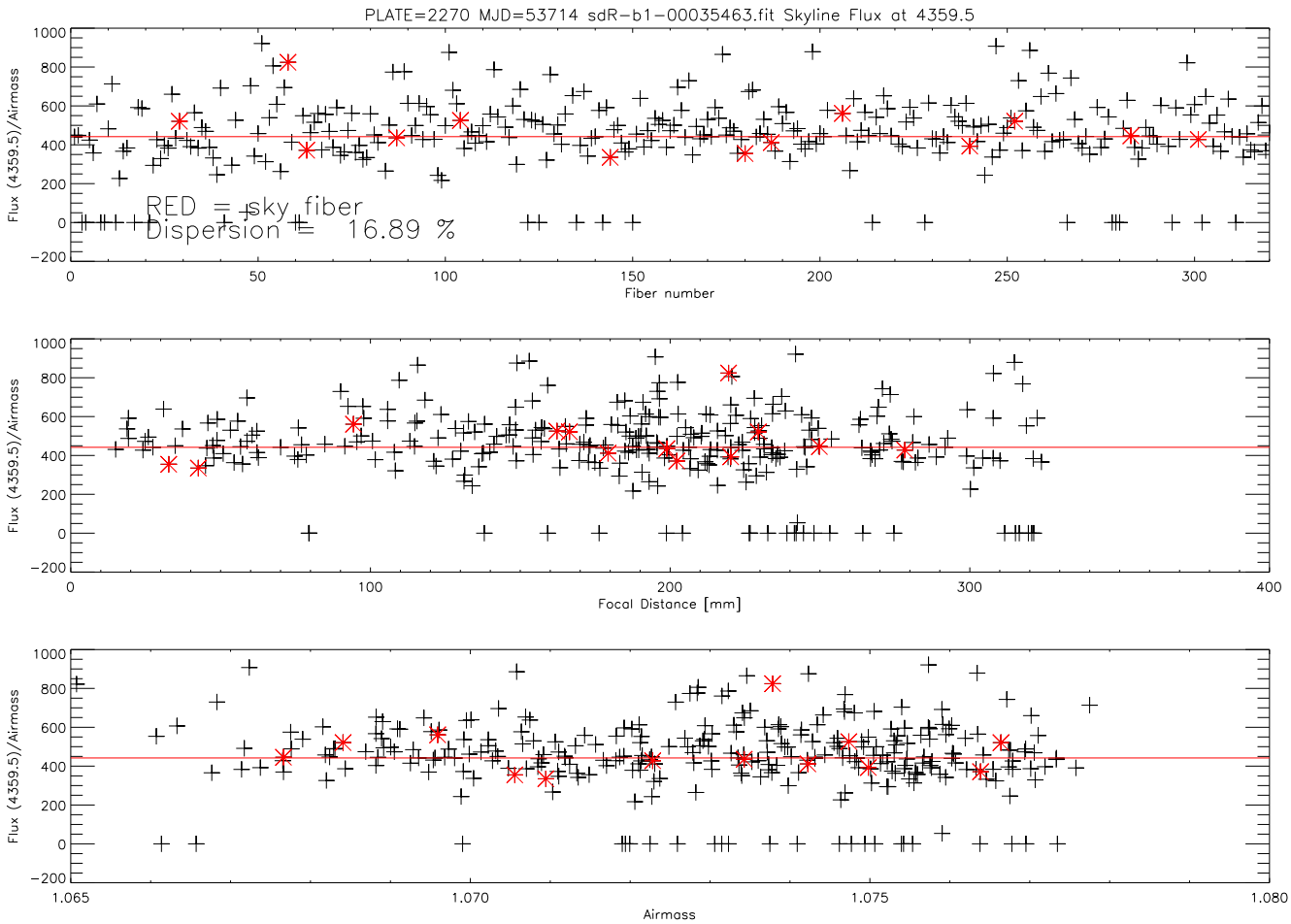

Number of sky fibers = 13
PLATE=2270 MJD=53714 sdR-b1-00035463.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

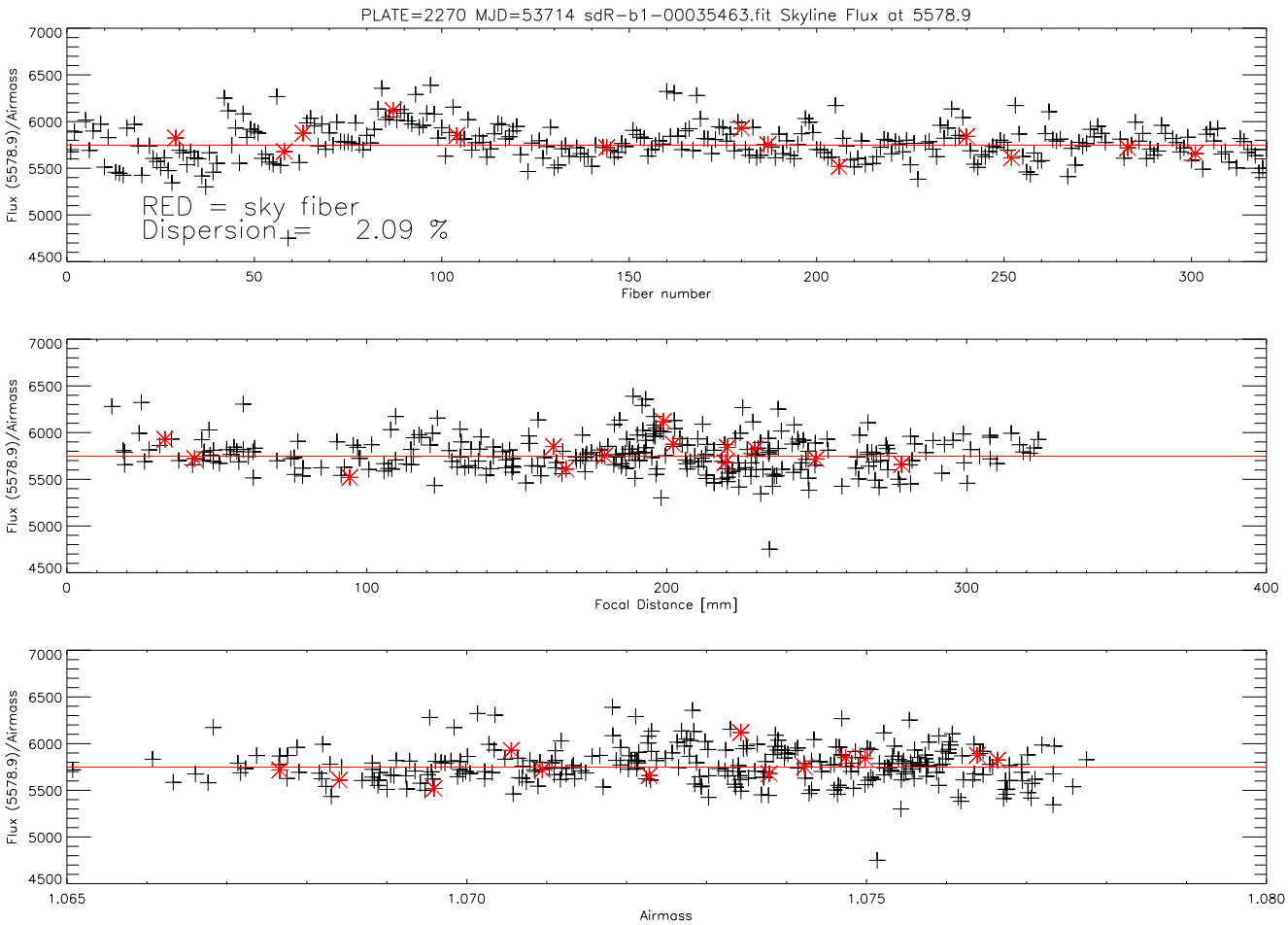

PLATE=2270 MJD=53714 sdR-b1-00035463.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
15
10
5
0
-5
-10
50
100
150
200
250
300
Fiber number

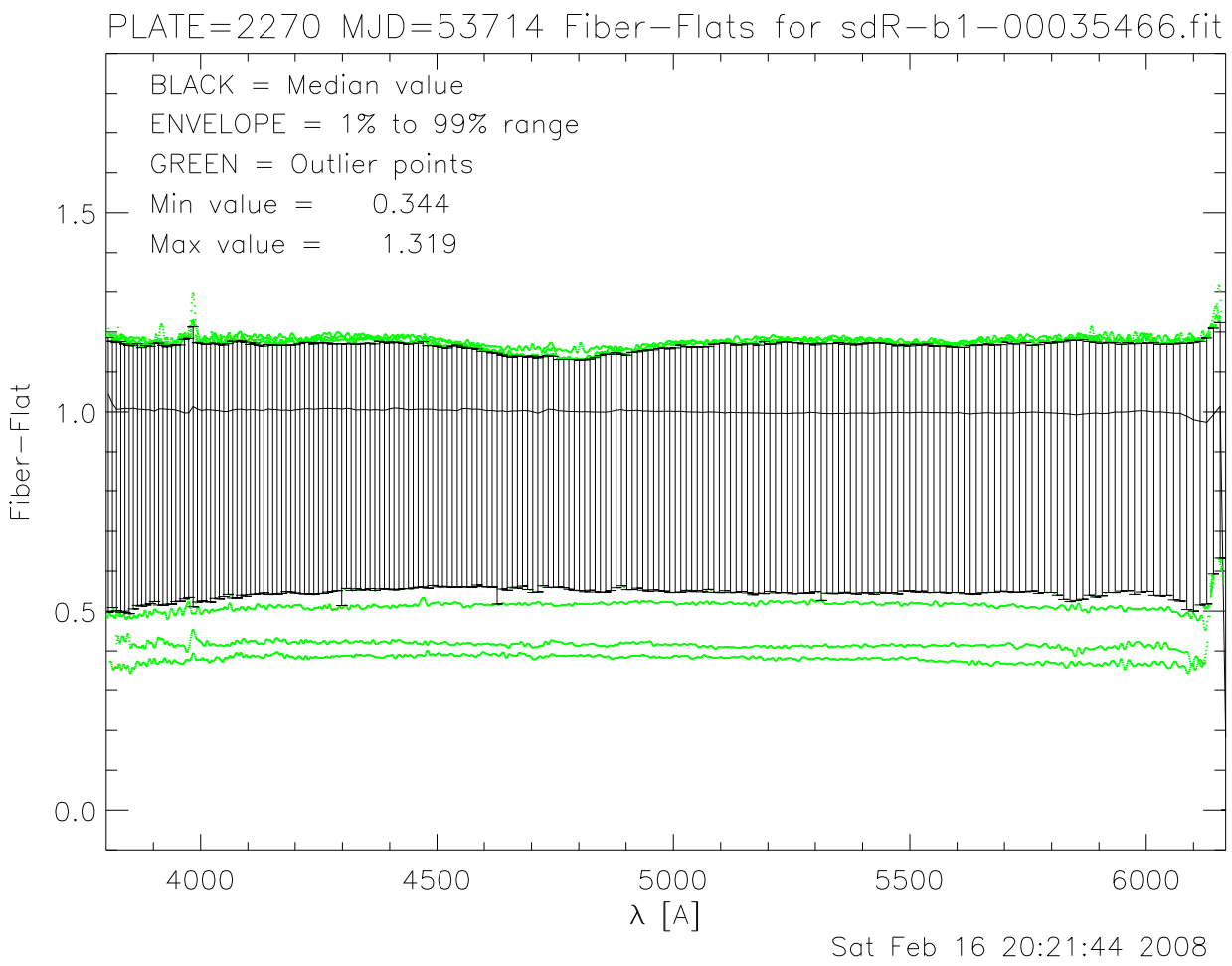

PLATE=2270 MJD=53714 sdR-b1-00035463.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

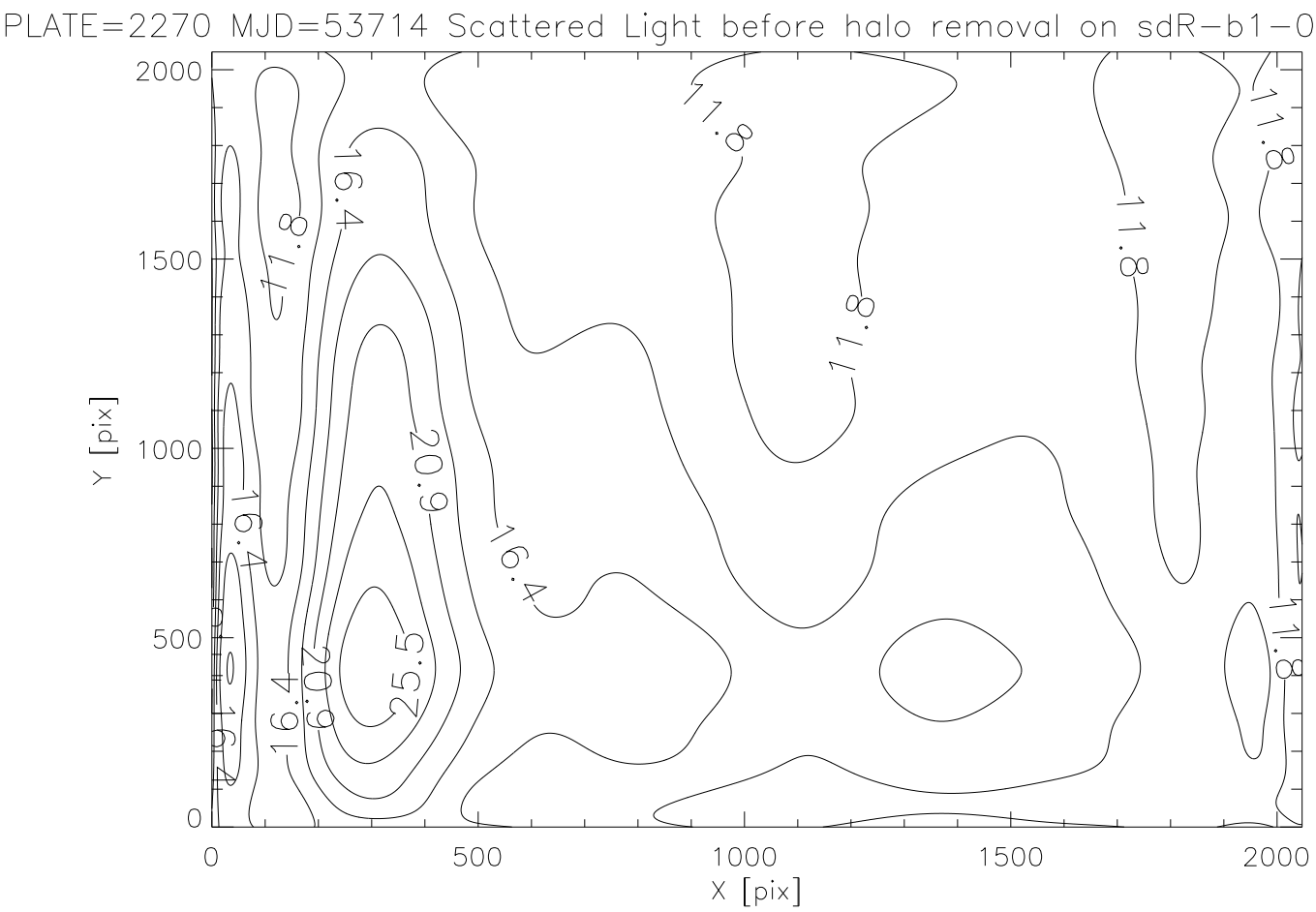

PLATE=2270 MJD=53714 sdR-b1-00035463.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

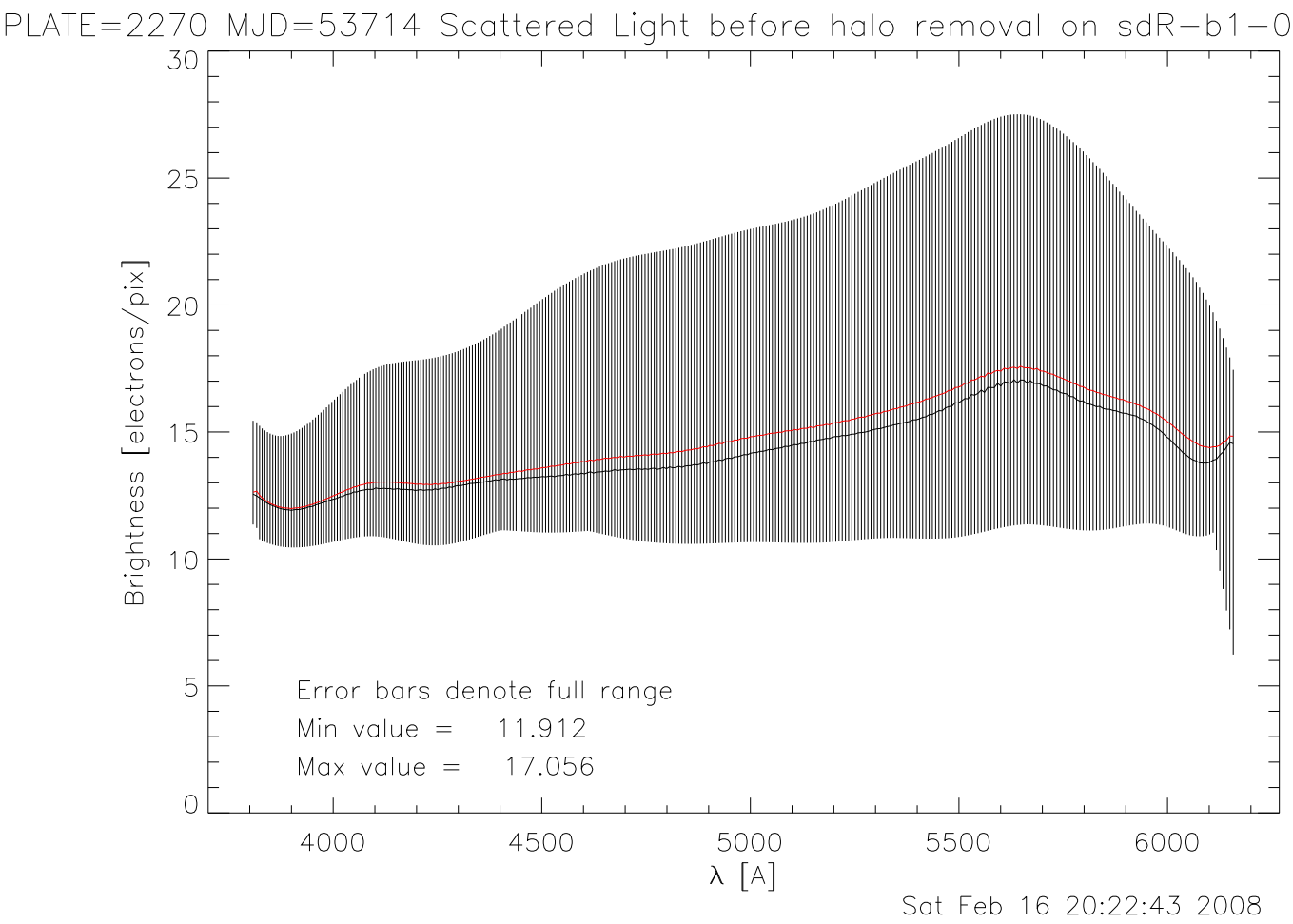

Number of sky fibers = 13
PLATE=2270 MJD=53714 sdR-b1-00035463.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

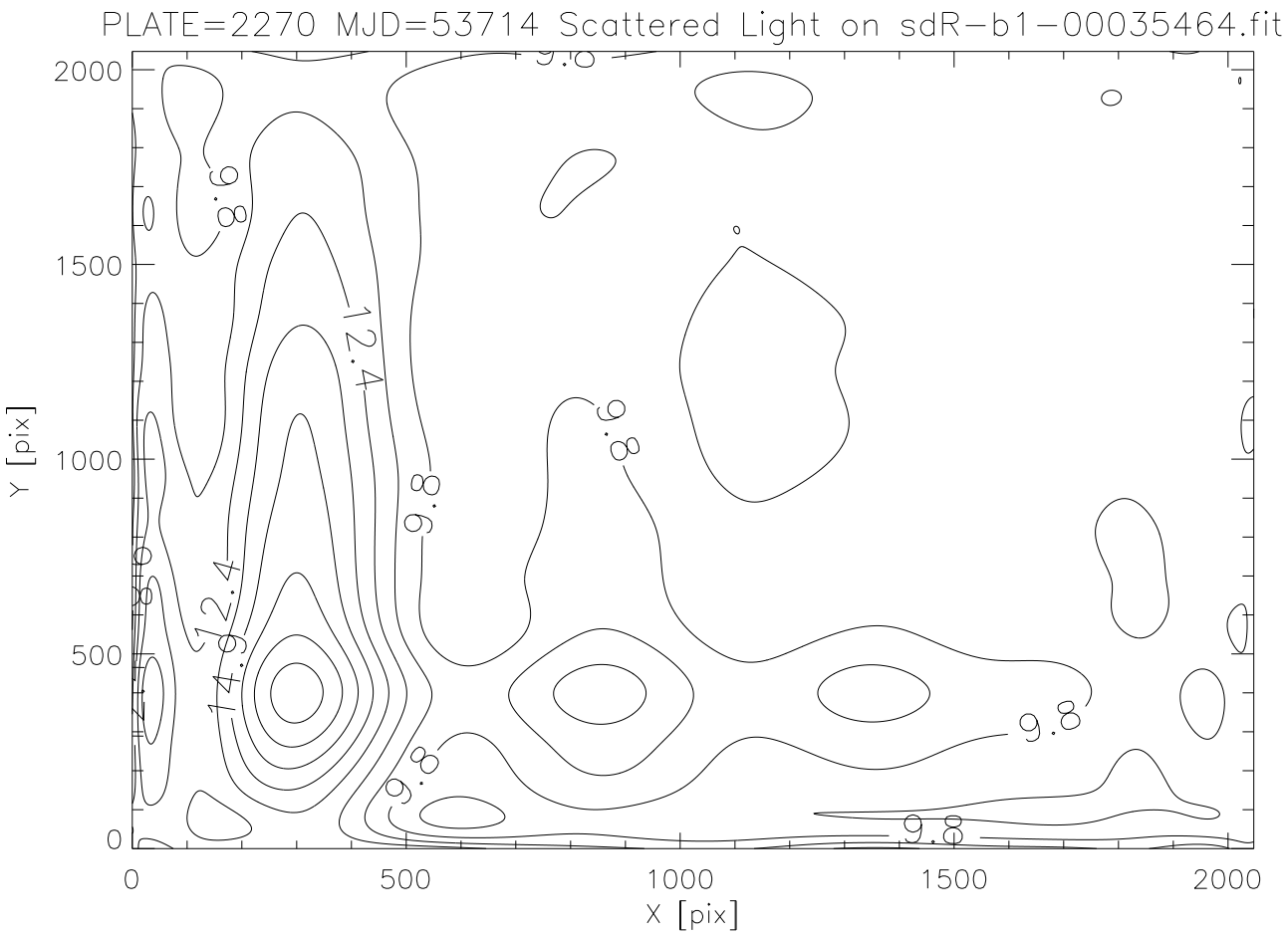

PLATE=2270 MJD=53714 sdR-b1-00035463.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 16.89 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

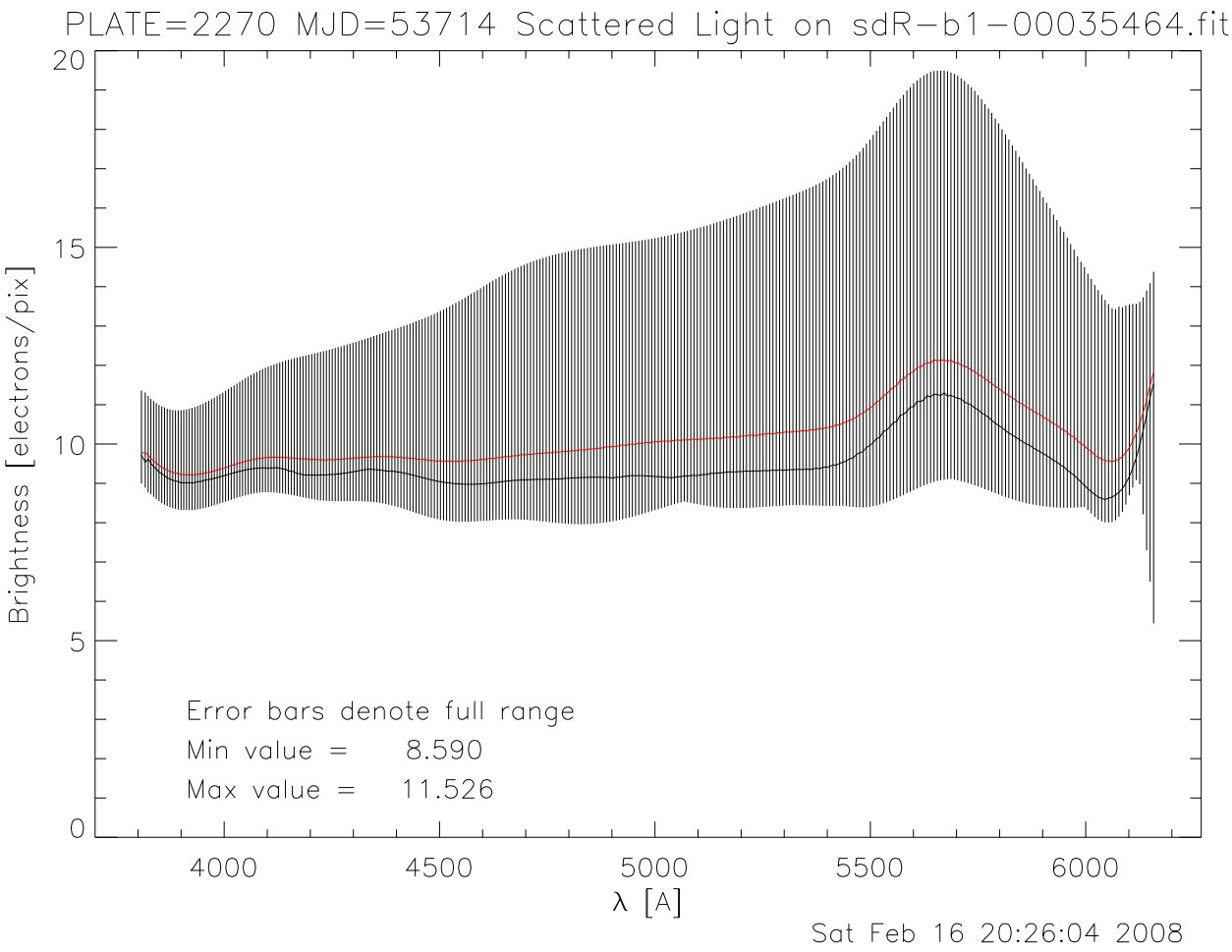

PLATE=2270 MJD=53714 sdR-b1-00035463.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.09 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

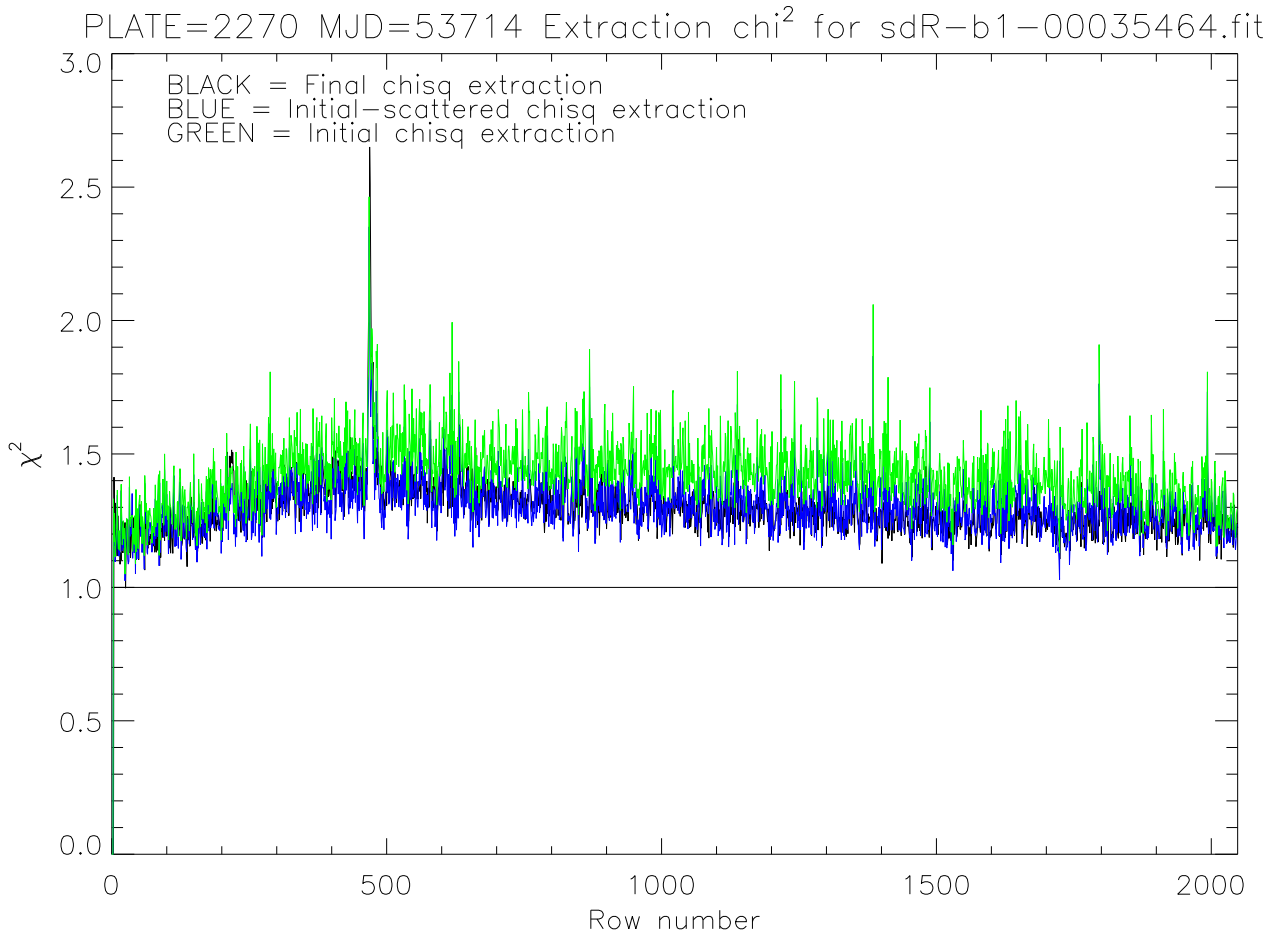

PLATE=2270 MJD=53714 Fiber−Flats for sdR−b1−00035466.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.344
Max value = 1.319
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 20:21:44 2008

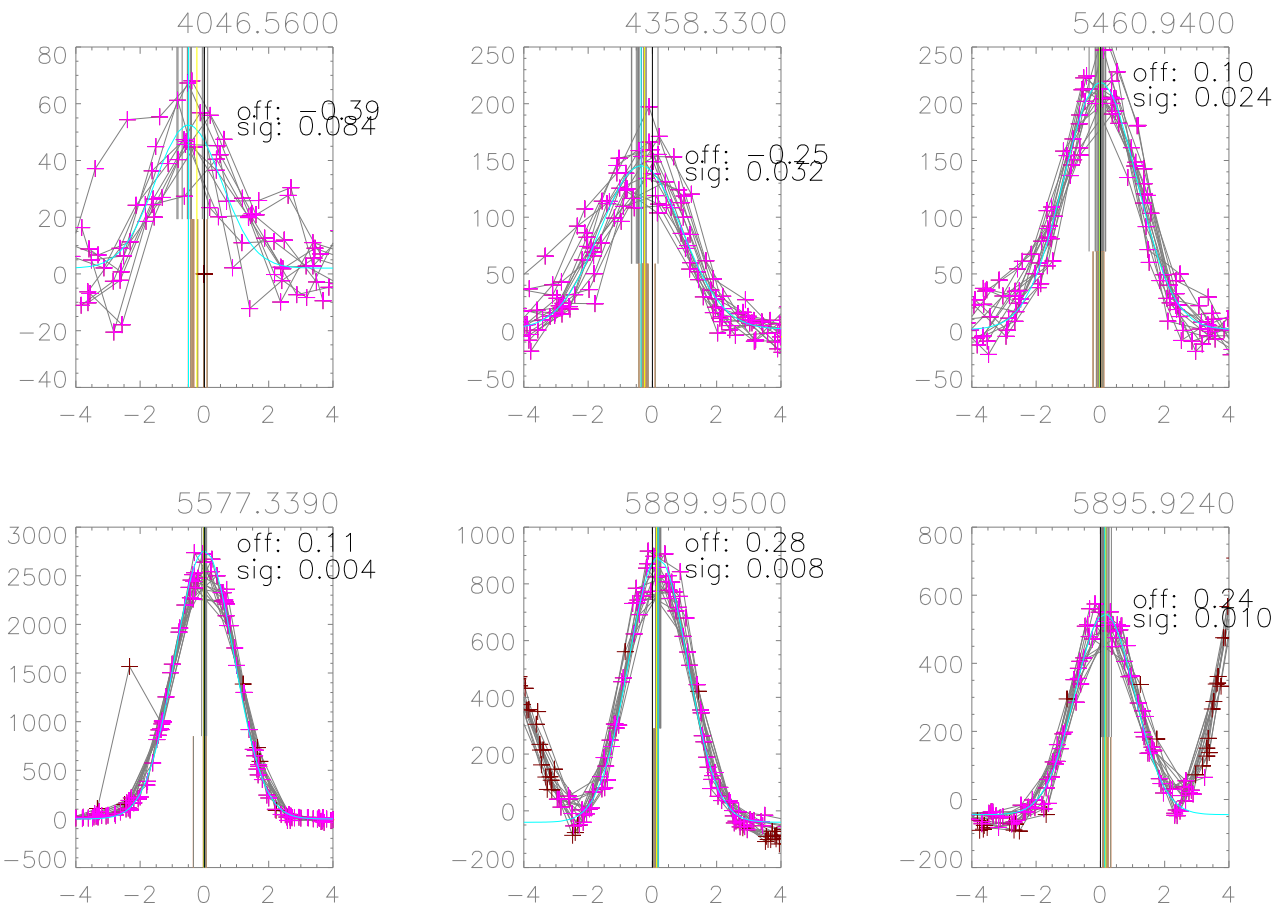

PLATE=2270 MJD=53714 Scattered Light before halo removal on sdR−b1−00035464.f
Y [pix]
X [pix]
0
500
1000
1500
2000
11.8
16.4
20.9
25.5

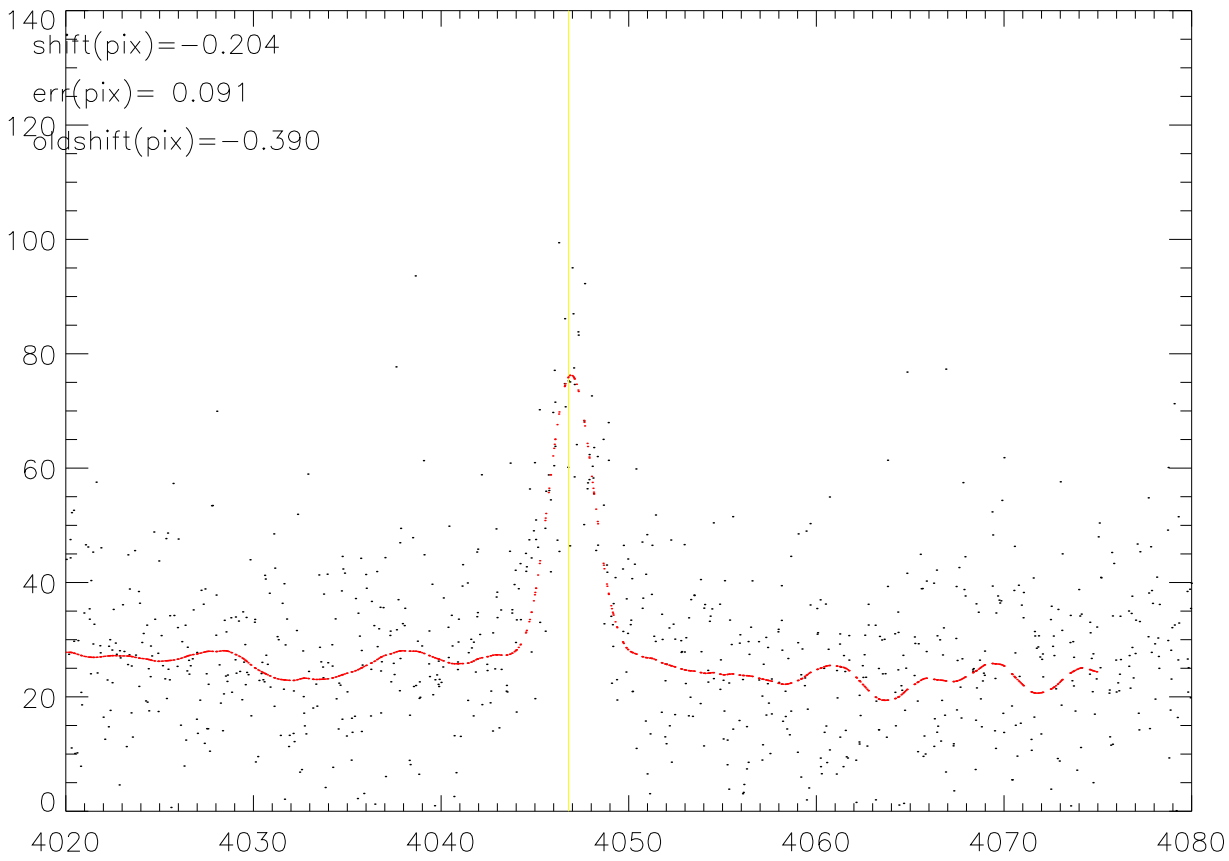

PLATE=2270 MJD=53714 Scattered Light before halo removal on sdR-b1-00035464.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 11.912
Max value = 17.056
Sat Feb 16 20:22:43 2008

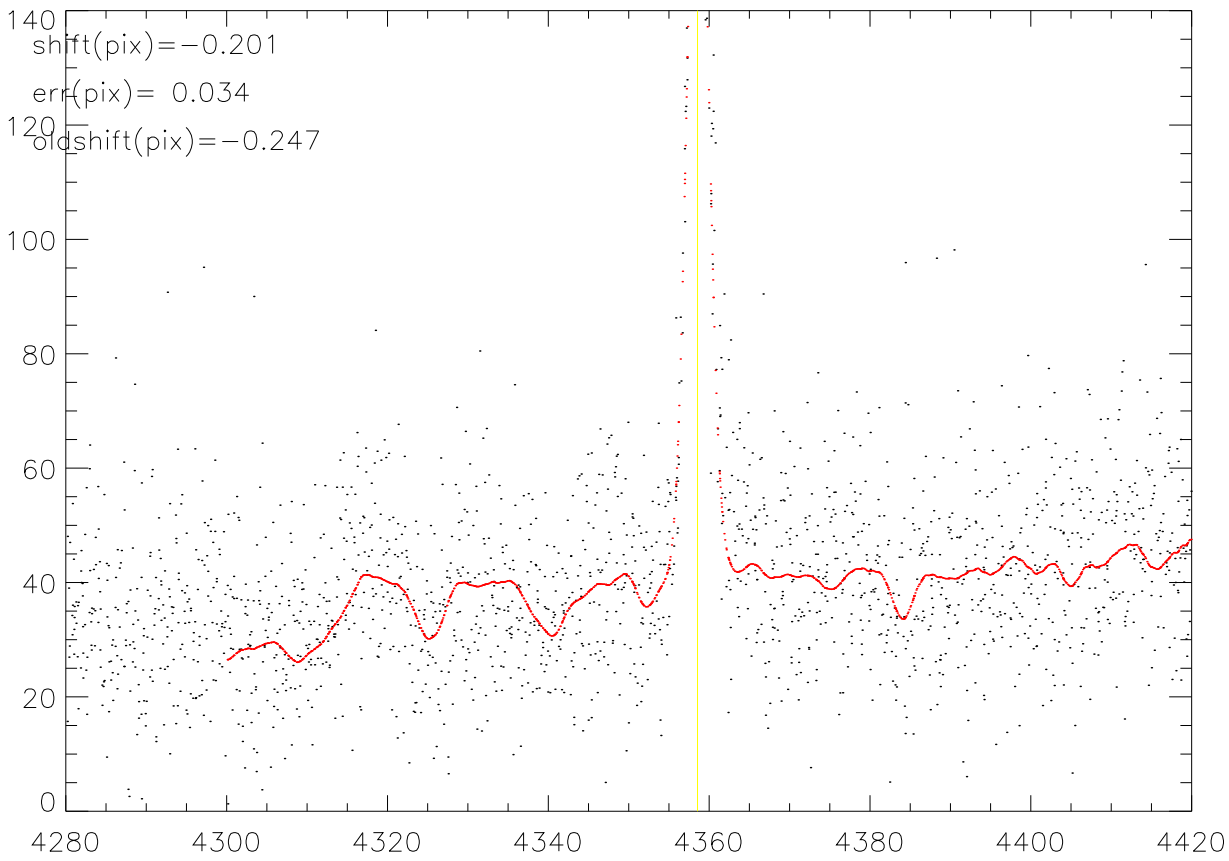

PLATE=2270 MJD=53714 Scattered Light on sdR-b1-00035464.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
9.8
12.4
14.9

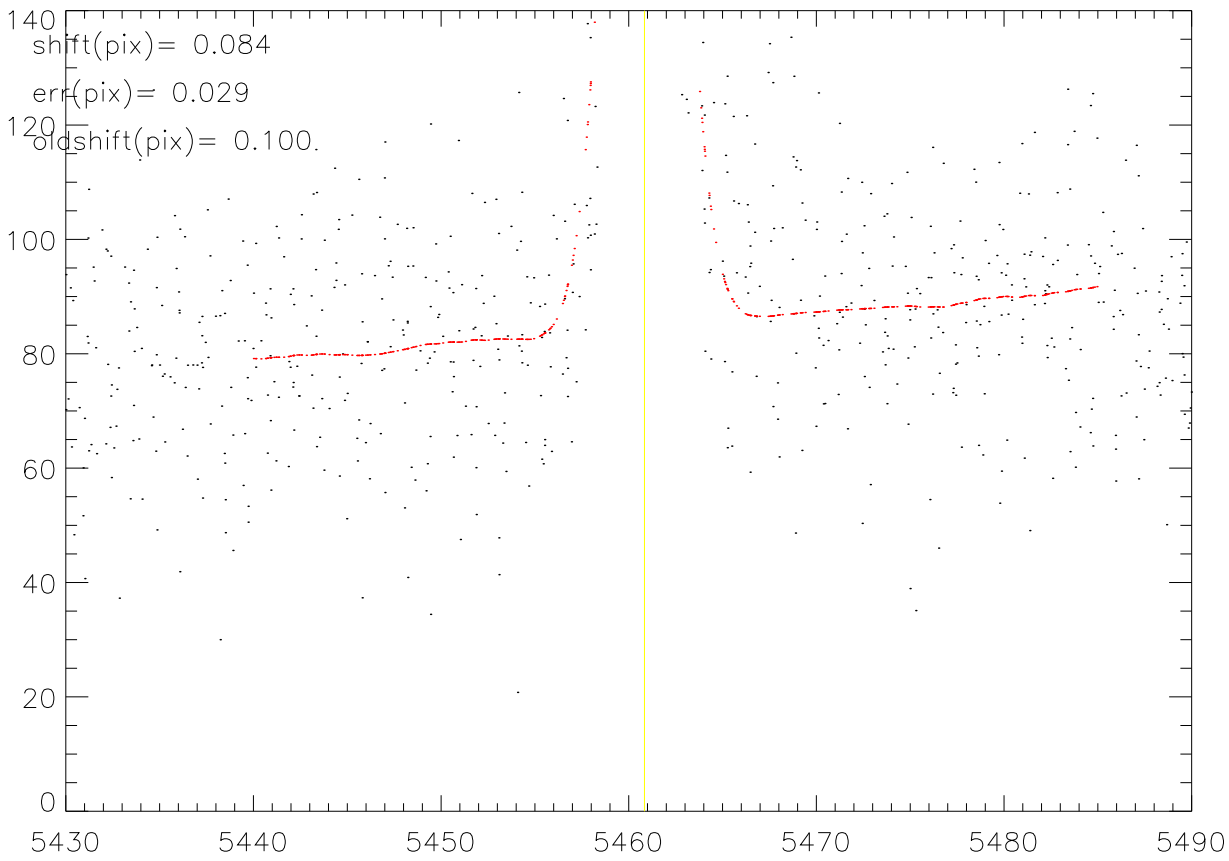

PLATE=2270 MJD=53714 Scattered Light on sdR-b1-00035464.fit
Brightness [electrons/pix]
20
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 8.590
Max value = 11.526
Sat Feb 16 20:26:04 2008

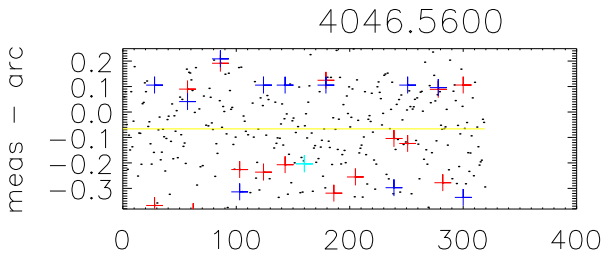

PLATE=2270 MJD=53714 Extraction chi^2 for sdR-b1-00035464.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

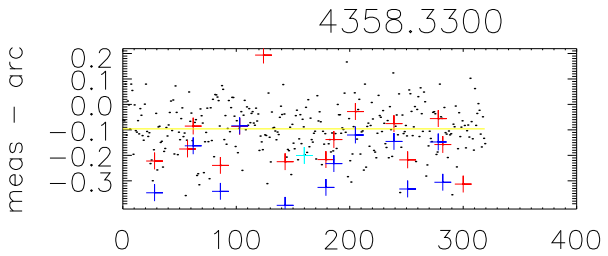

4046.5600
off: −0.39
sig: 0.084
4358.3300
off: −0.25
sig: 0.032
5460.9400
off: 0.10
sig: 0.024
5577.3390
off: 0.11
sig: 0.004
5889.9500
off: 0.28
sig: 0.008
5895.9240
off: 0.24
sig: 0.010

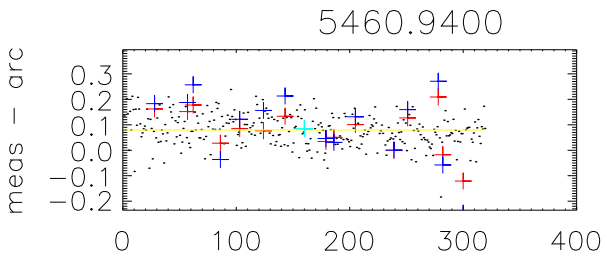

shift(pix)=−0.204
err(pix)= 0.091
oldshift(pix)=−0.390
140
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

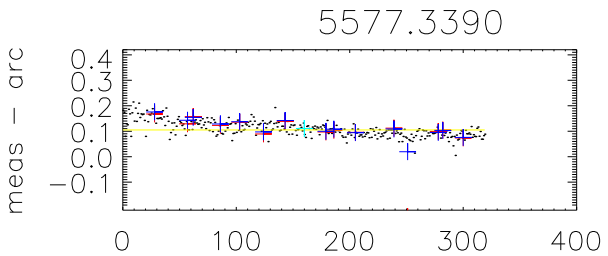

shift(pix)=−0.201
err(pix)= 0.034
oldshift(pix)=−0.247
140
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

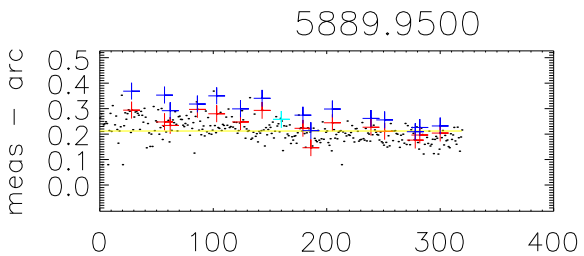

shift(pix)= 0.084
err(pix)= 0.029
oldshift(pix)= 0.100.
140
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

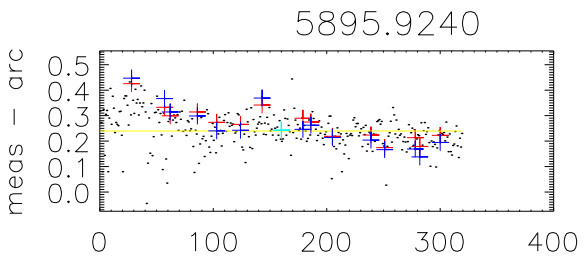

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

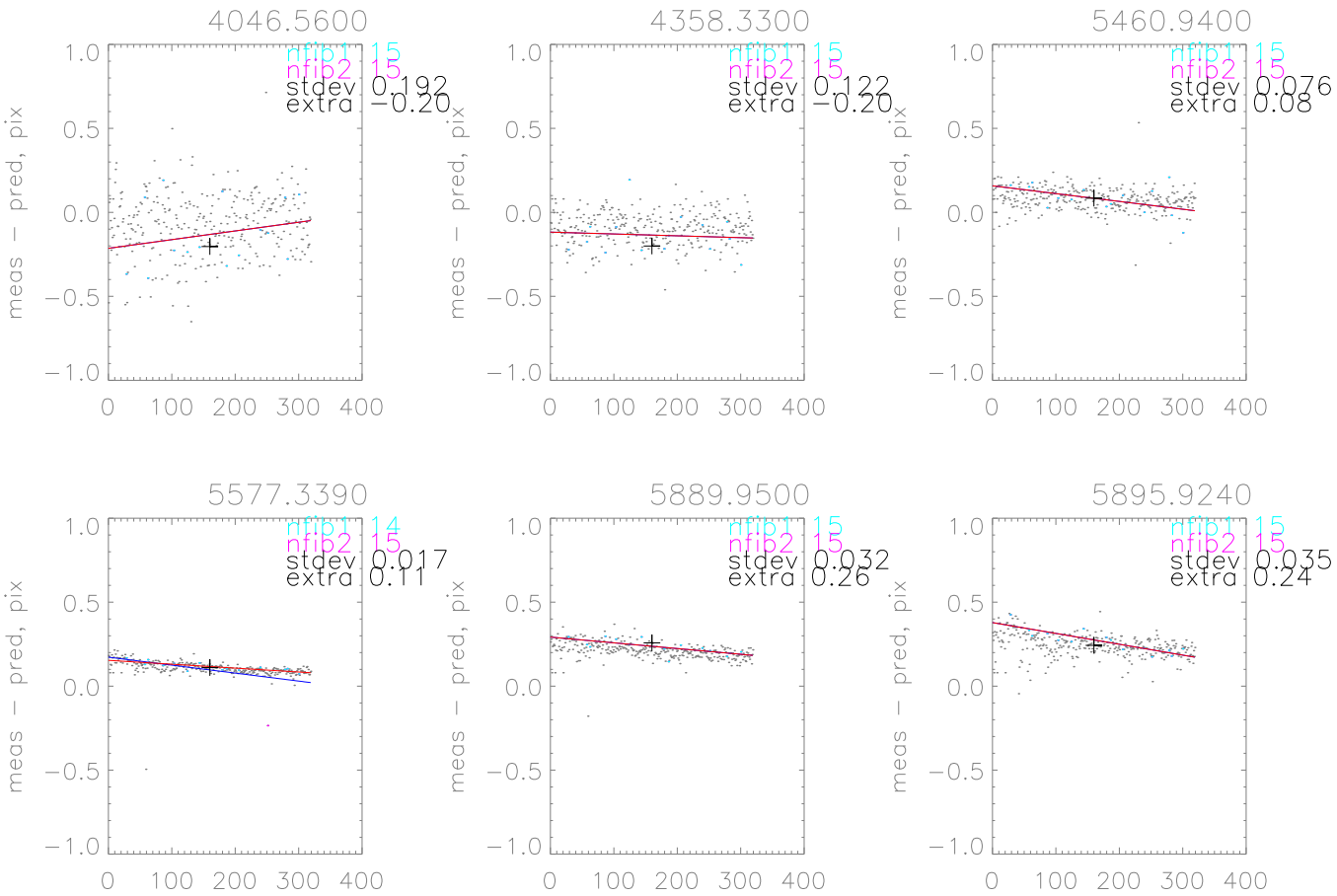

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

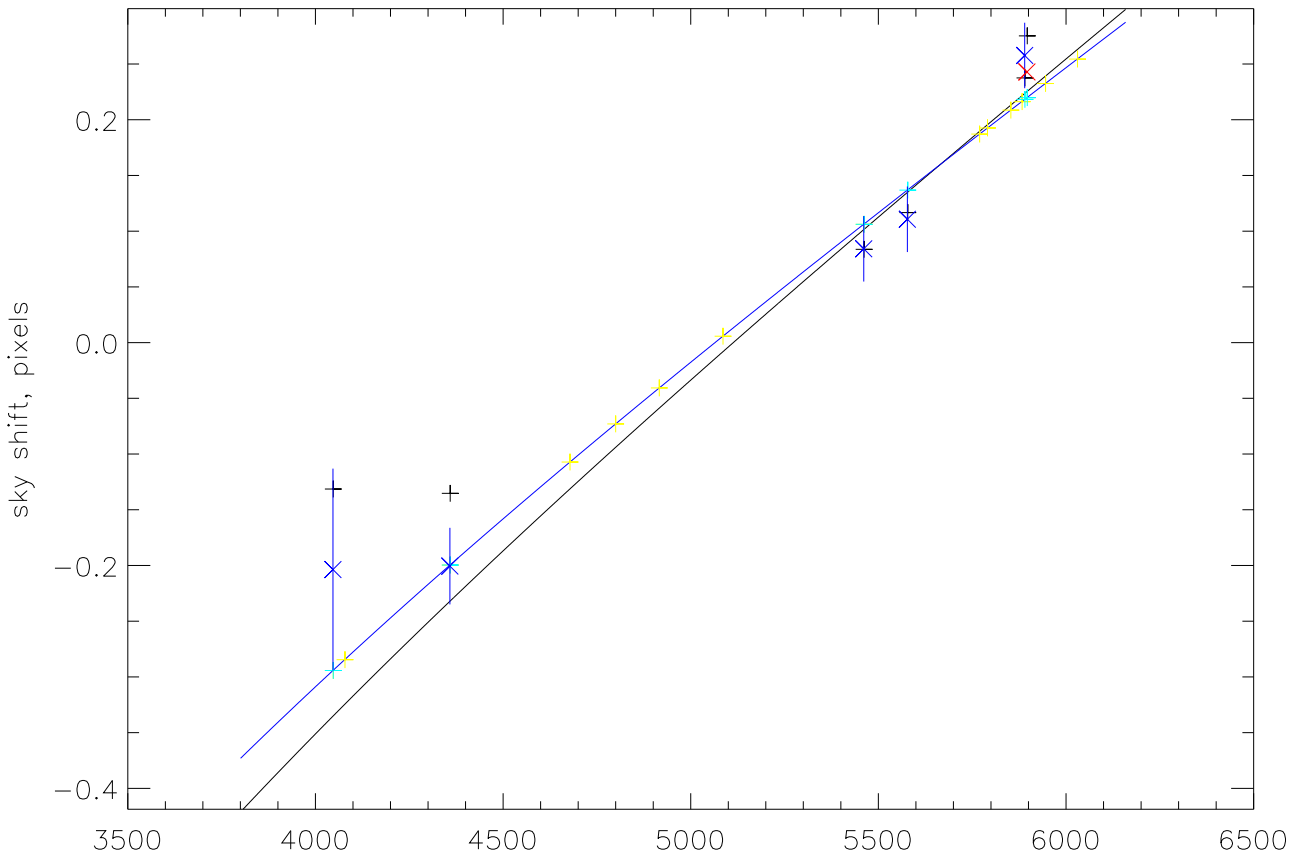

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

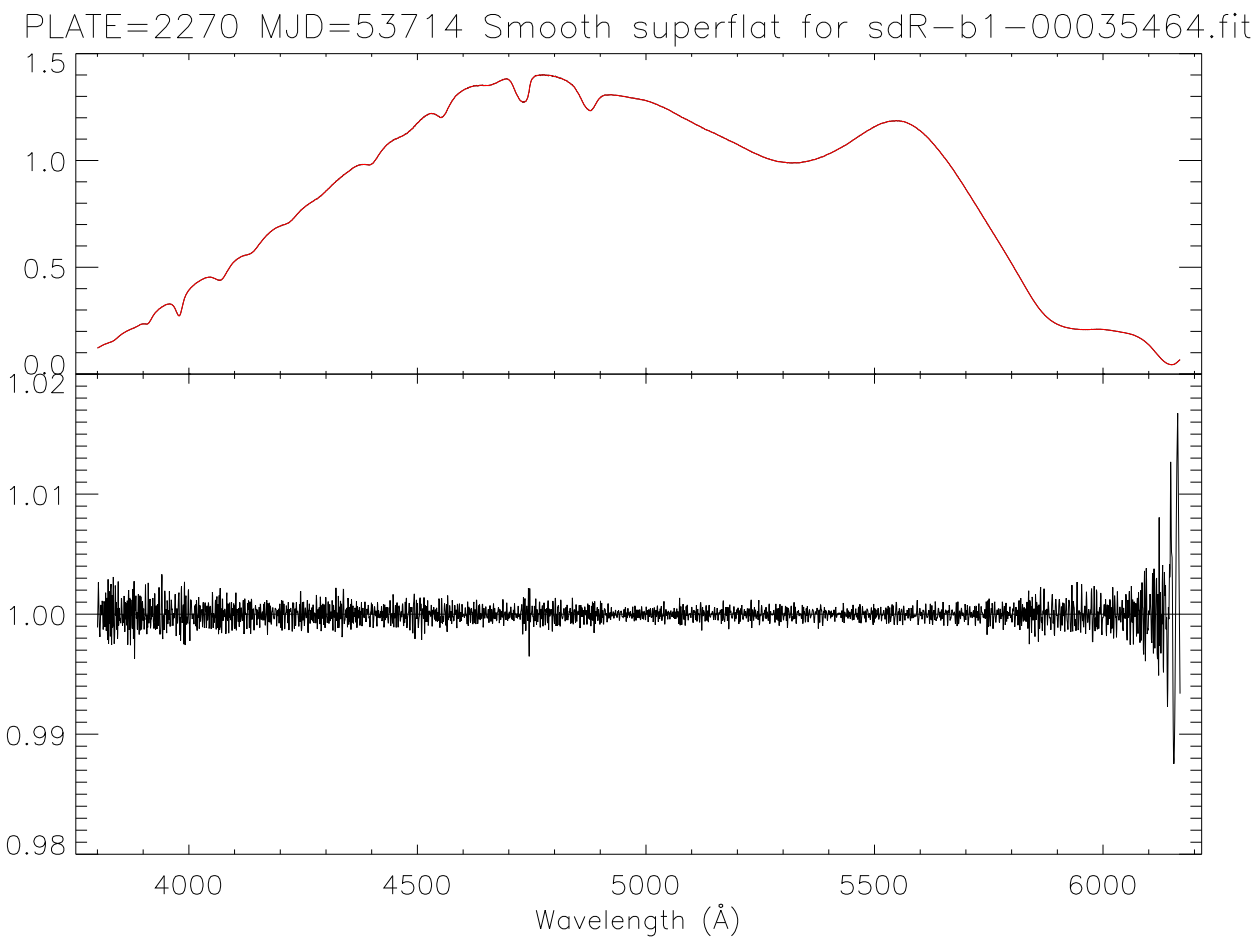

5889.9500
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

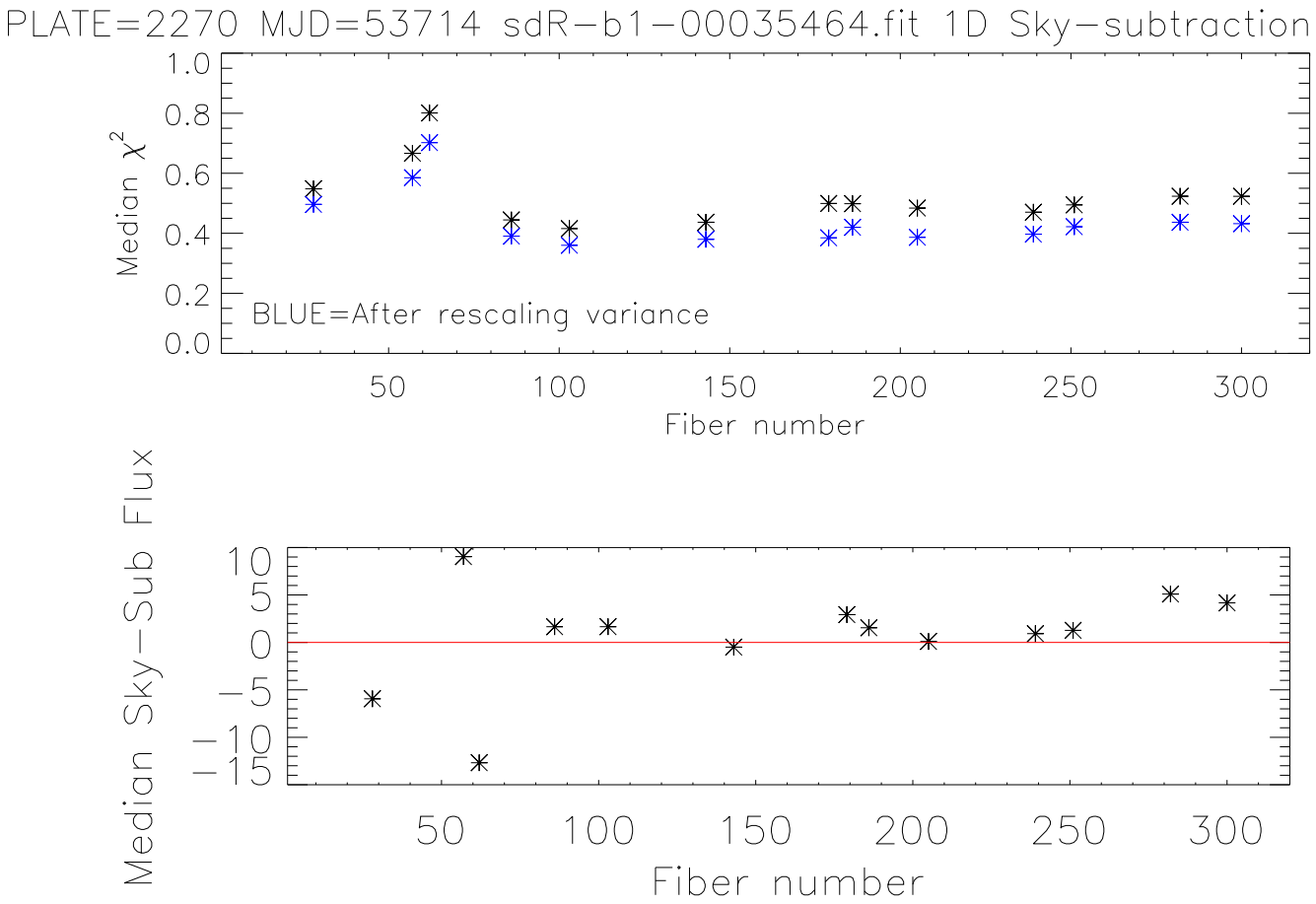

5895.9240
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

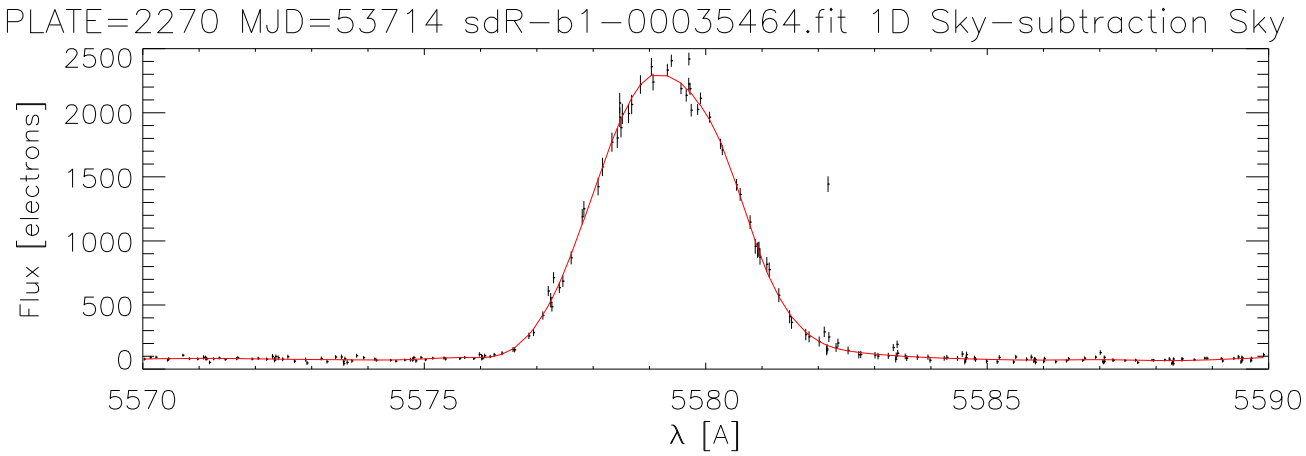

4046.5600
nfib1 15
nfib2 15
stdev 0.192
extra −0.20
4358.3300
nfib1 15
nfib2 15
stdev 0.122
extra −0.20
5460.9400
nfib1 15
nfib2 15
stdev 0.076
extra 0.08
5577.3390
nfib1 14
nfib2 15
stdev 0.017
extra 0.11
5889.9500
nfib1 15
nfib2 15
stdev 0.032
extra 0.26
5895.9240
nfib1 15
nfib2 15
stdev 0.035
extra 0.24
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

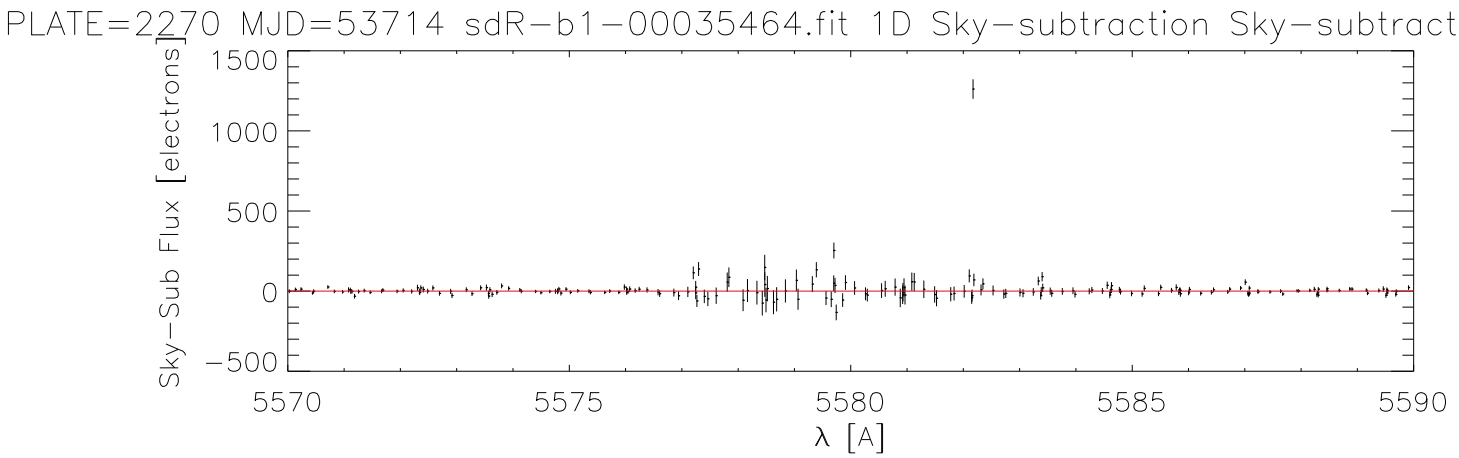

sky shift, pixels
0.2
0.0
−0.2
−0.4
3500
4000
4500
5000
5500
6000
6500

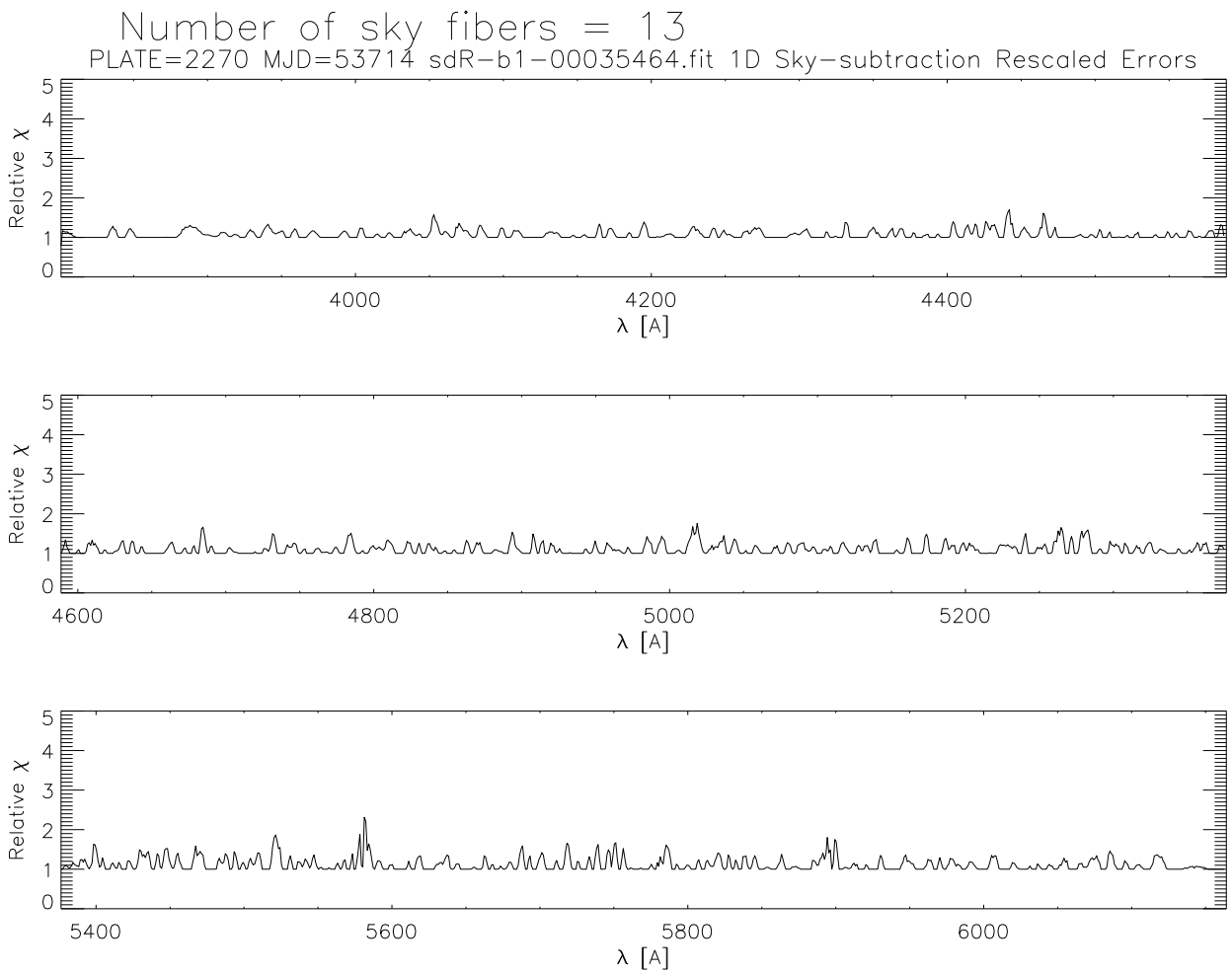
es= −0.0001

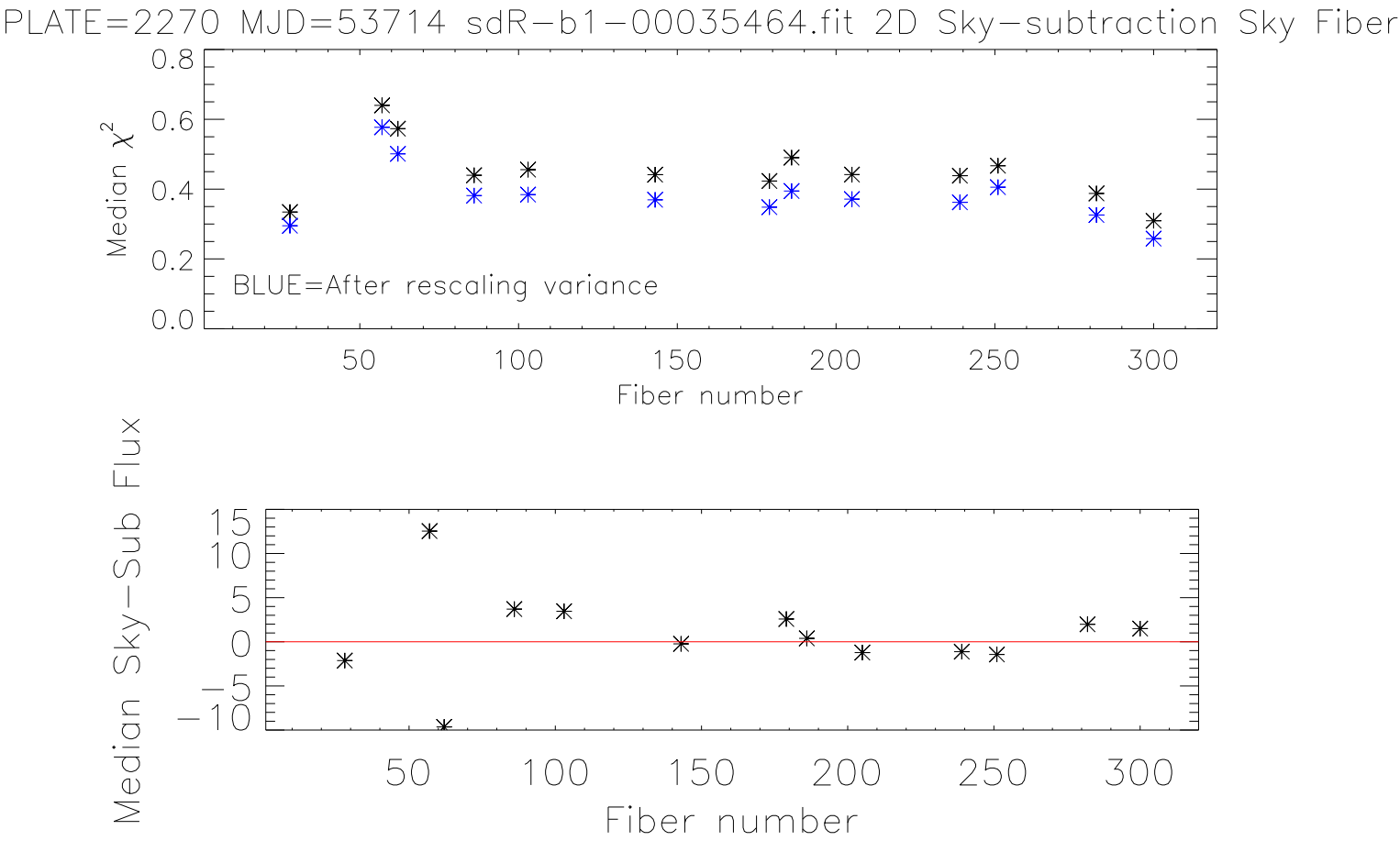

PLATE=2270 MJD=53714 Smooth superflat for sdR−b1−00035464.fit
1.5
1.0
0.5
0.0
1.02
1.01
1.00
0.99
0.98
4000
4500
5000
5500
6000
Wavelength (Å)

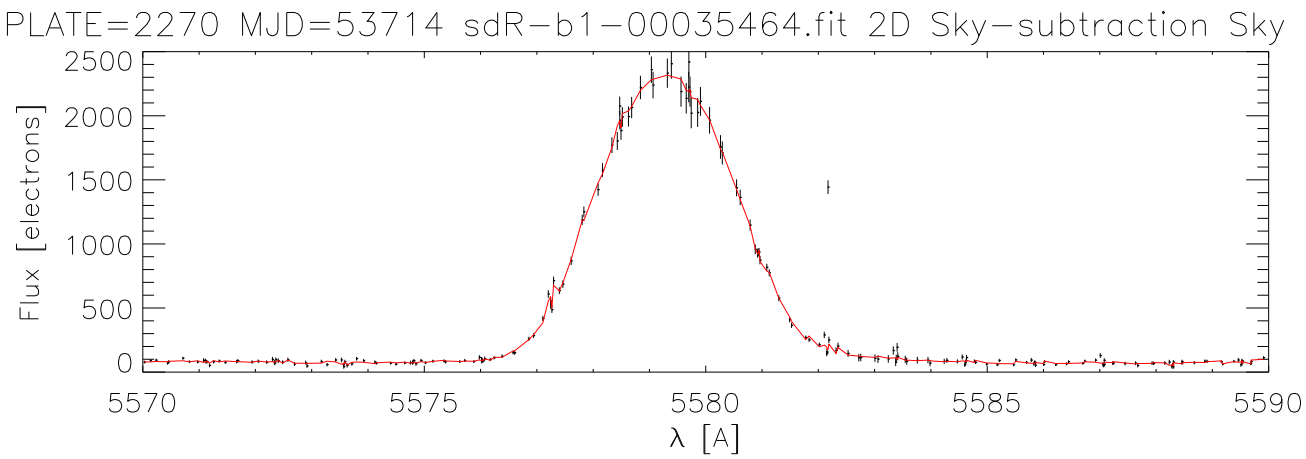

PLATE=2270 MJD=53714 sdR-b1-00035464.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

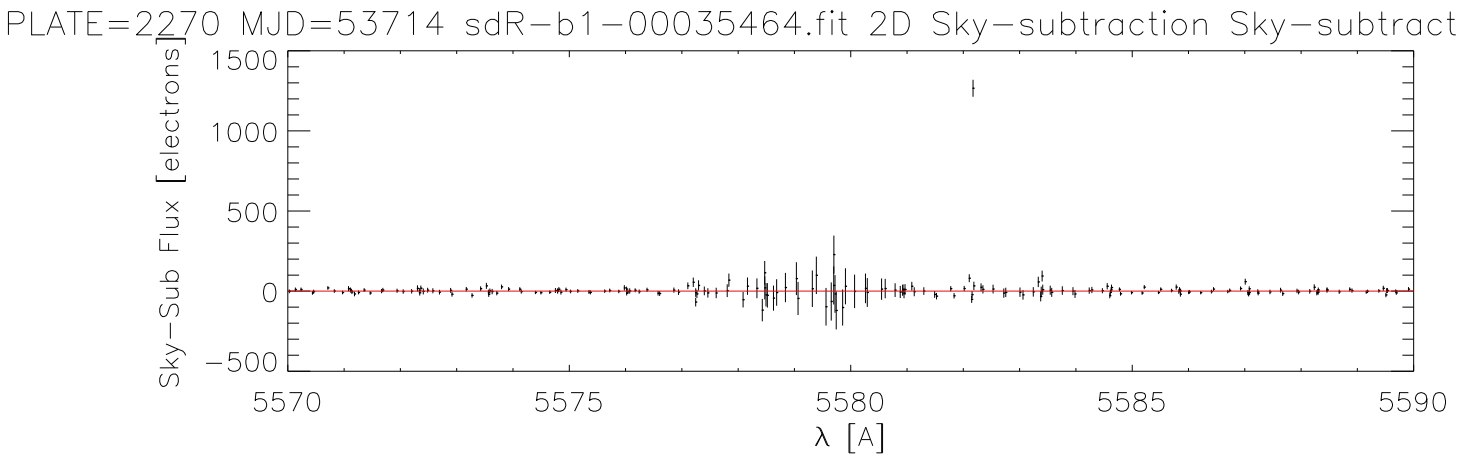

PLATE=2270 MJD=53714 sdR-b1-00035464.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

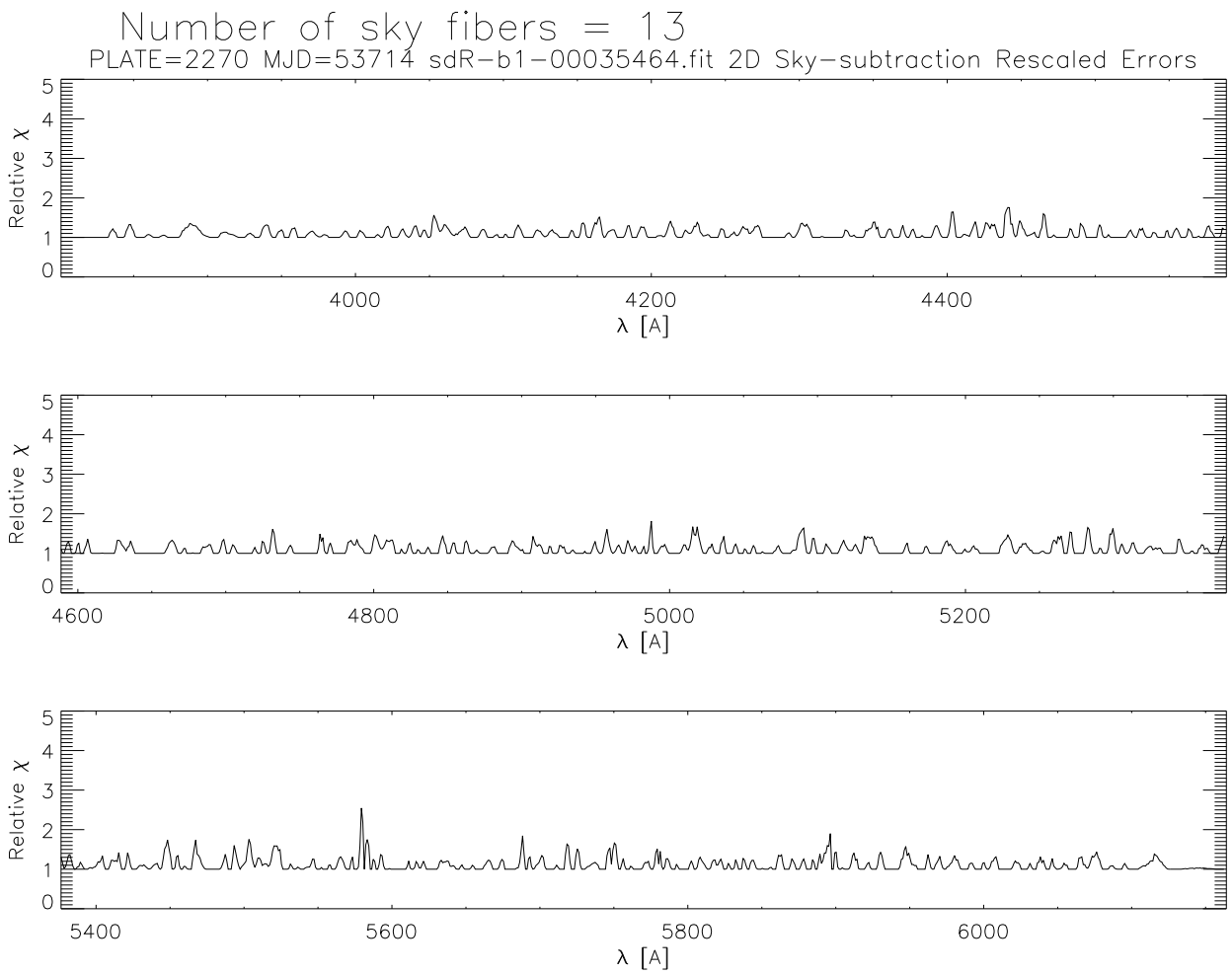

PLATE=2270 MJD=53714 sdR-b1-00035464.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
5570
5575
5580
5585
5590
λ [A]

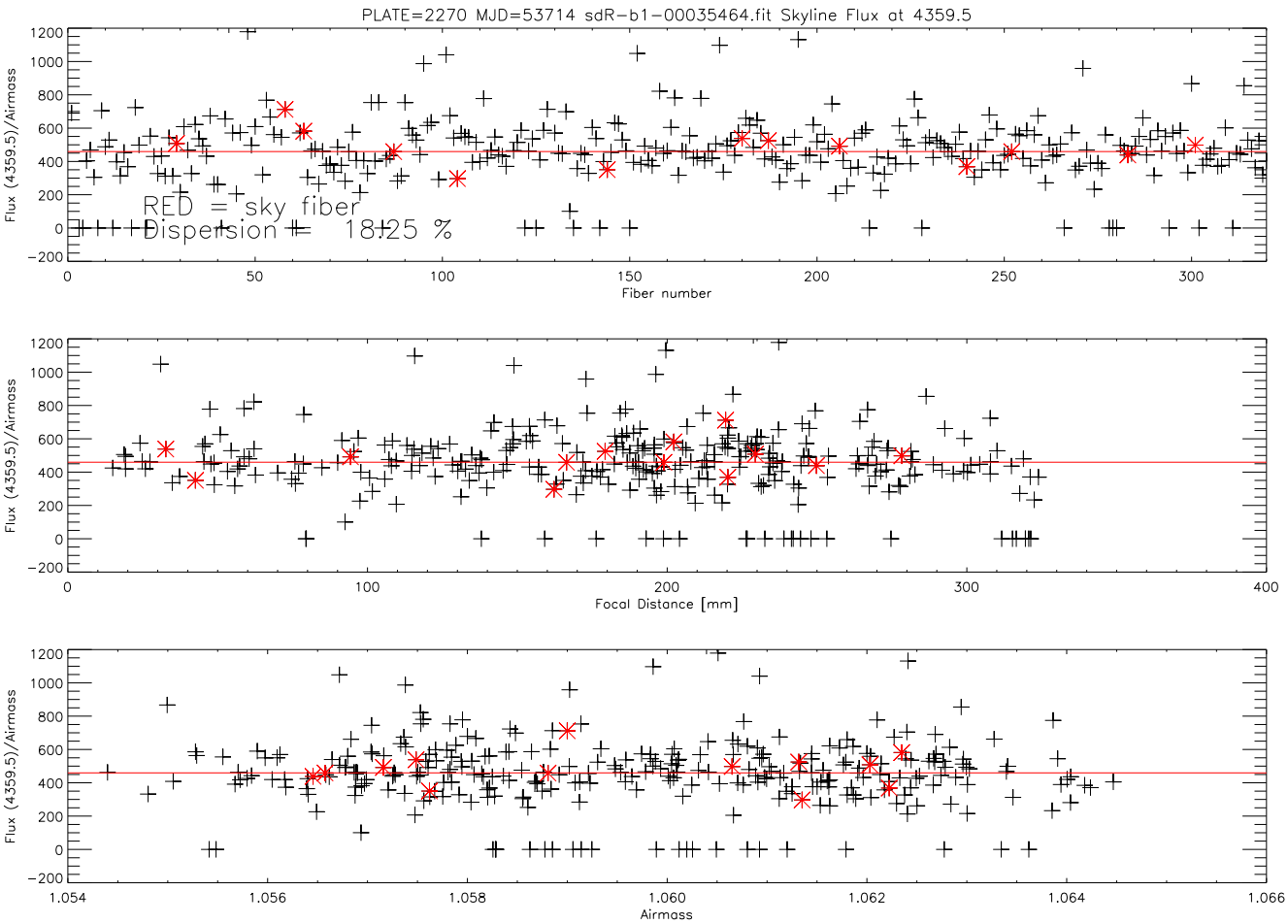

Number of sky fibers = 13
PLATE=2270 MJD=53714 sdR-b1-00035464.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

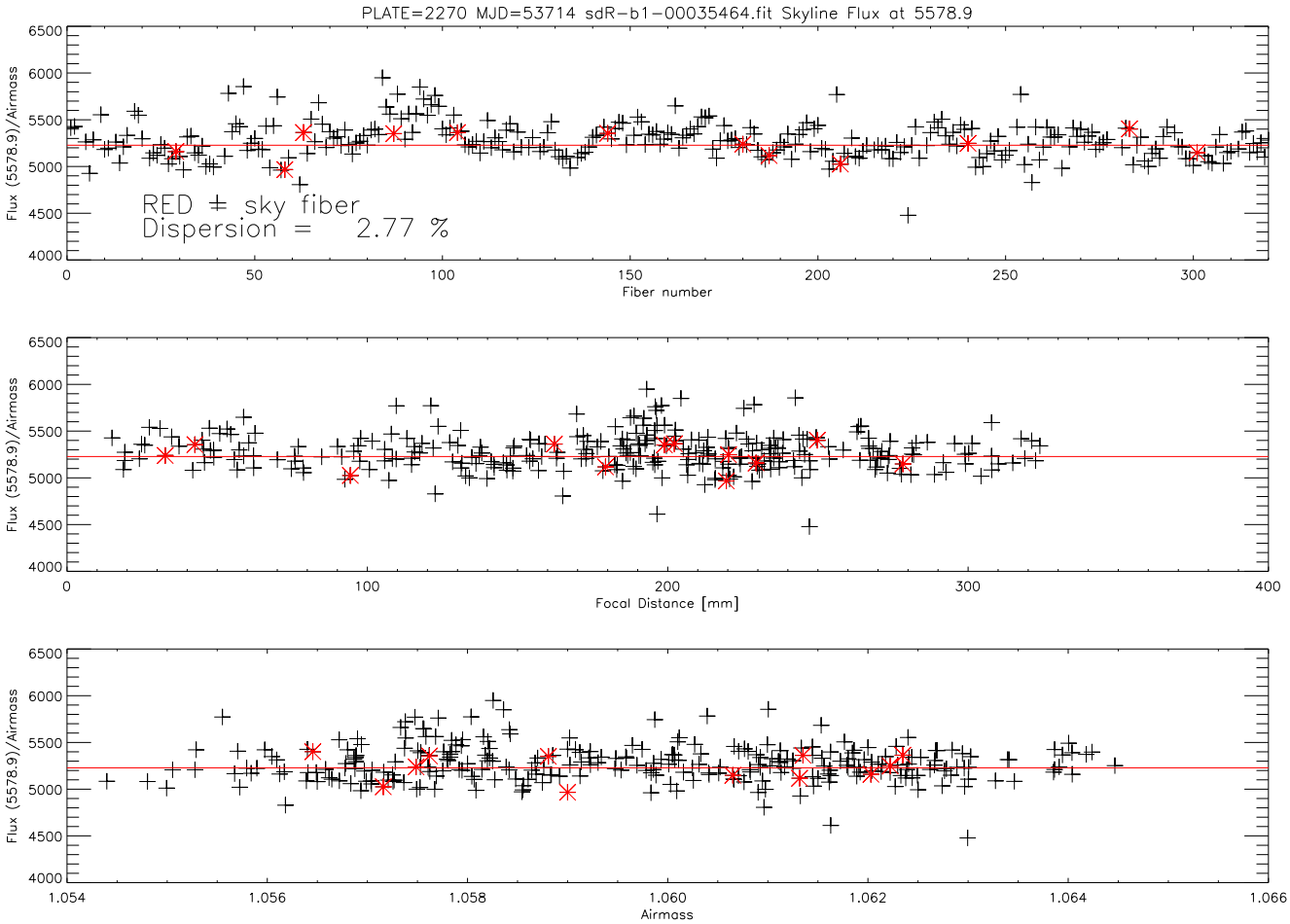

PLATE=2270 MJD=53714 sdR-b1-00035464.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
15
10
5
0
-5
-10
50
100
150
200
250
300
Fiber number

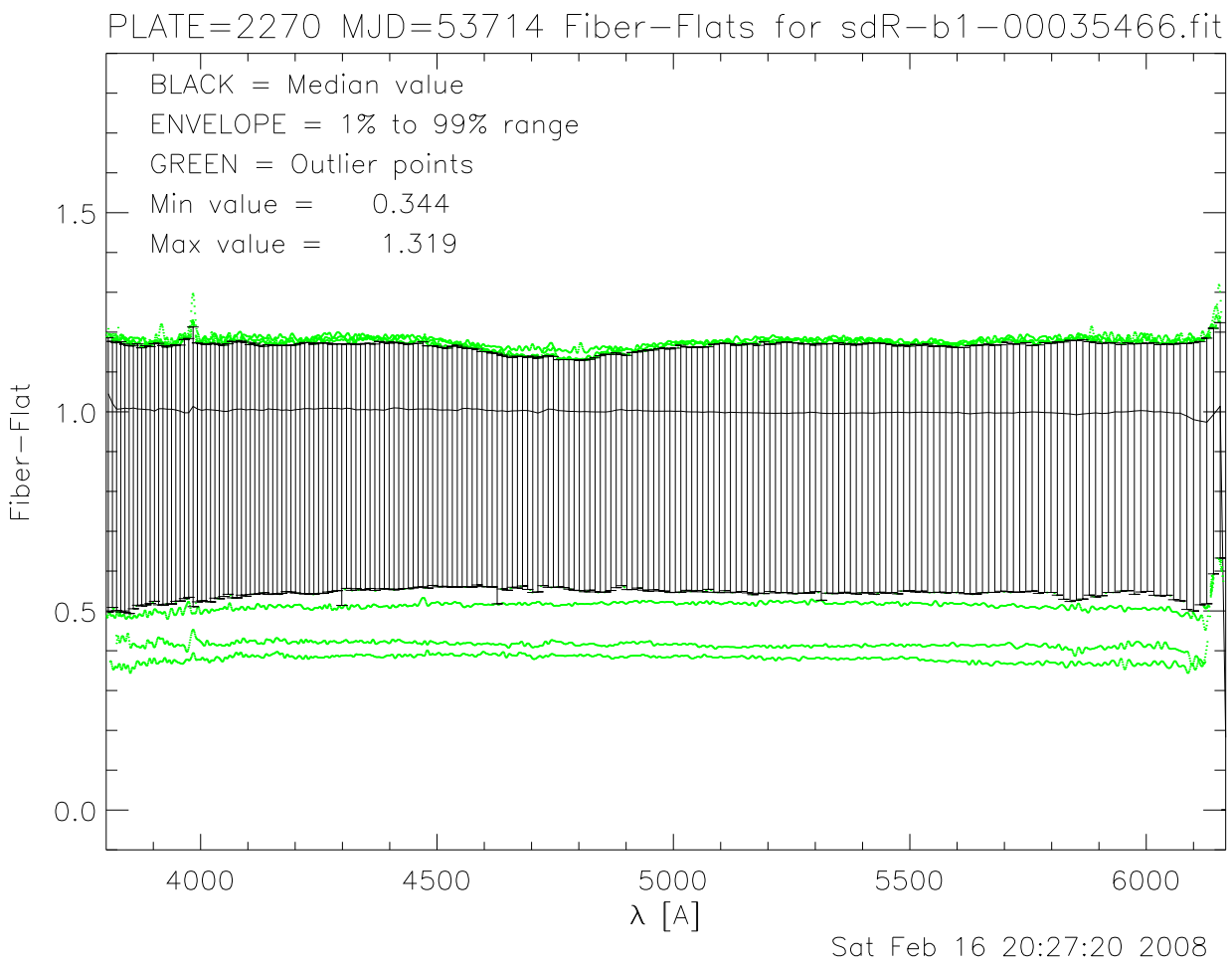

PLATE=2270 MJD=53714 sdR-b1-00035464.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]


PLATE=2270 MJD=53714 sdR-b1-00035464.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 = 13
PLATE=2270 MJD=53714 sdR-b1-00035464.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000


PLATE=2270 MJD=53714 sdR-b1-00035464.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 18.25 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass


PLATE=2270 MJD=53714 sdR-b1-00035464.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.77 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass


PLATE=2270 MJD=53714 Fiber−Flats for sdR−b1−00035466.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.344
Max value = 1.319
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
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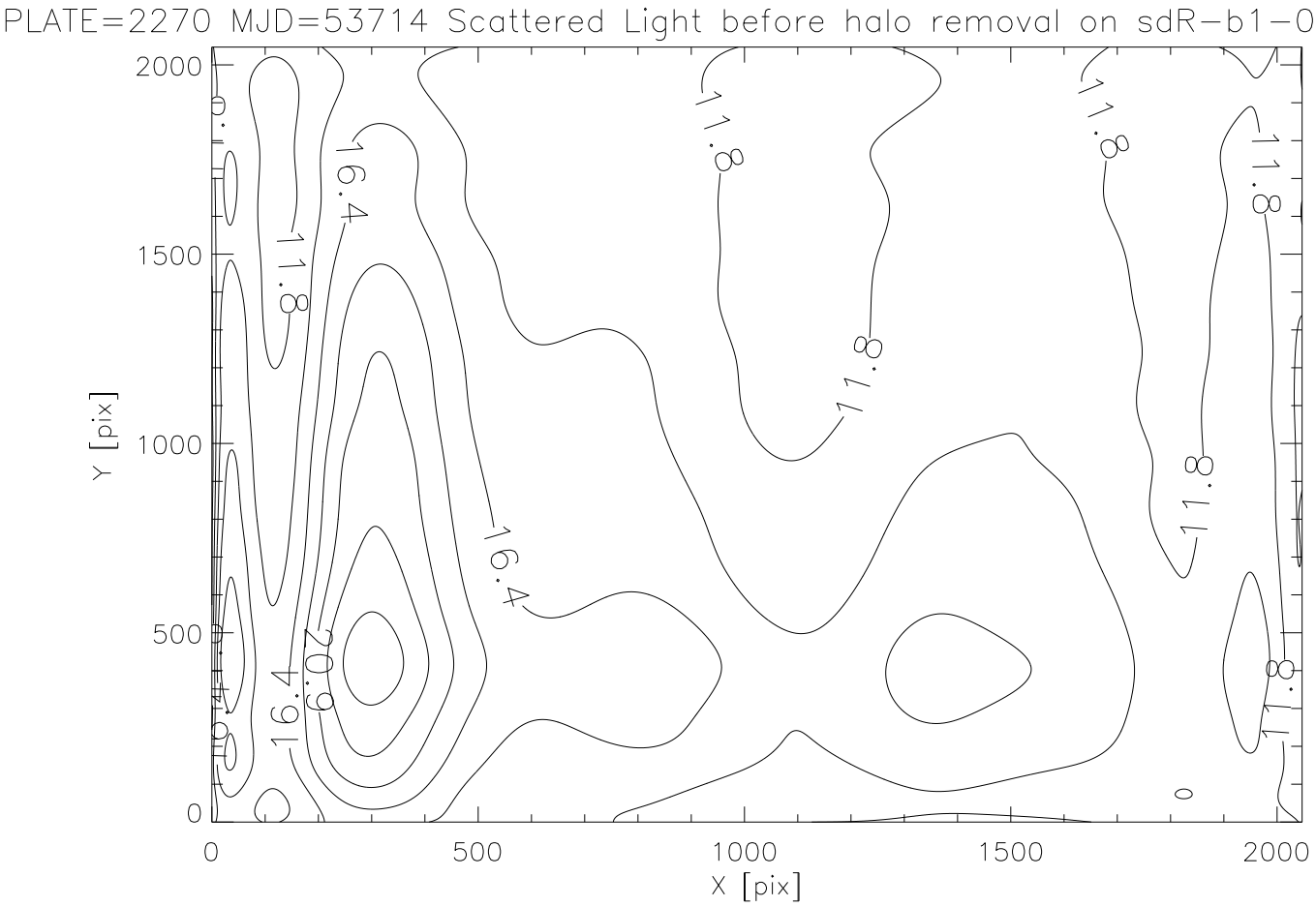
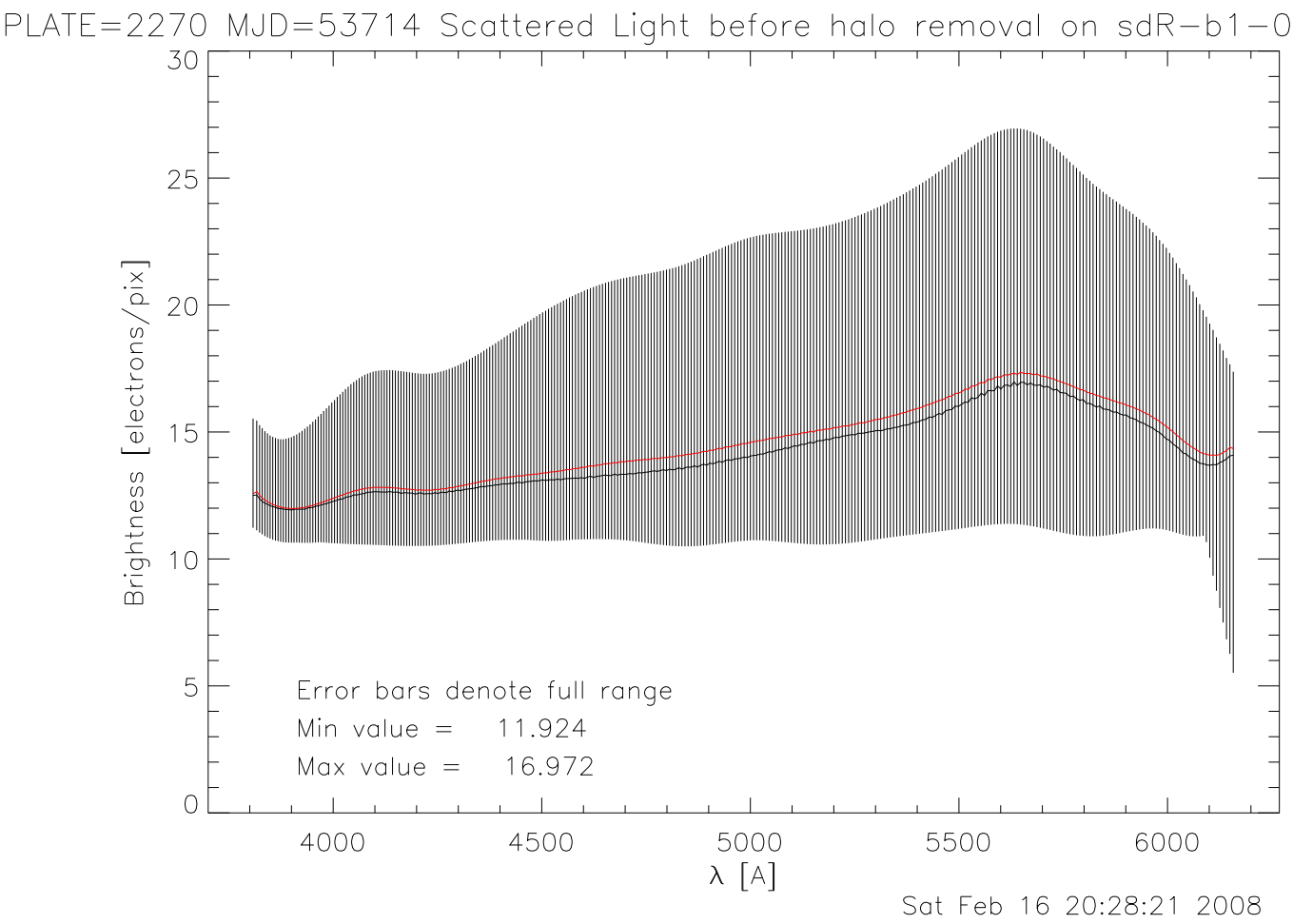

PLATE=2270 MJD=53714 Scattered Light before halo removal on sdR-b1-00035465.f
Y [pix]
X [pix]
0
500
1000
1500
2000
11.8
16.4
20.9


PLATE=2270 MJD=53714 Scattered Light before halo removal on sdR-b1-00035465.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 11.924
Max value = 16.972
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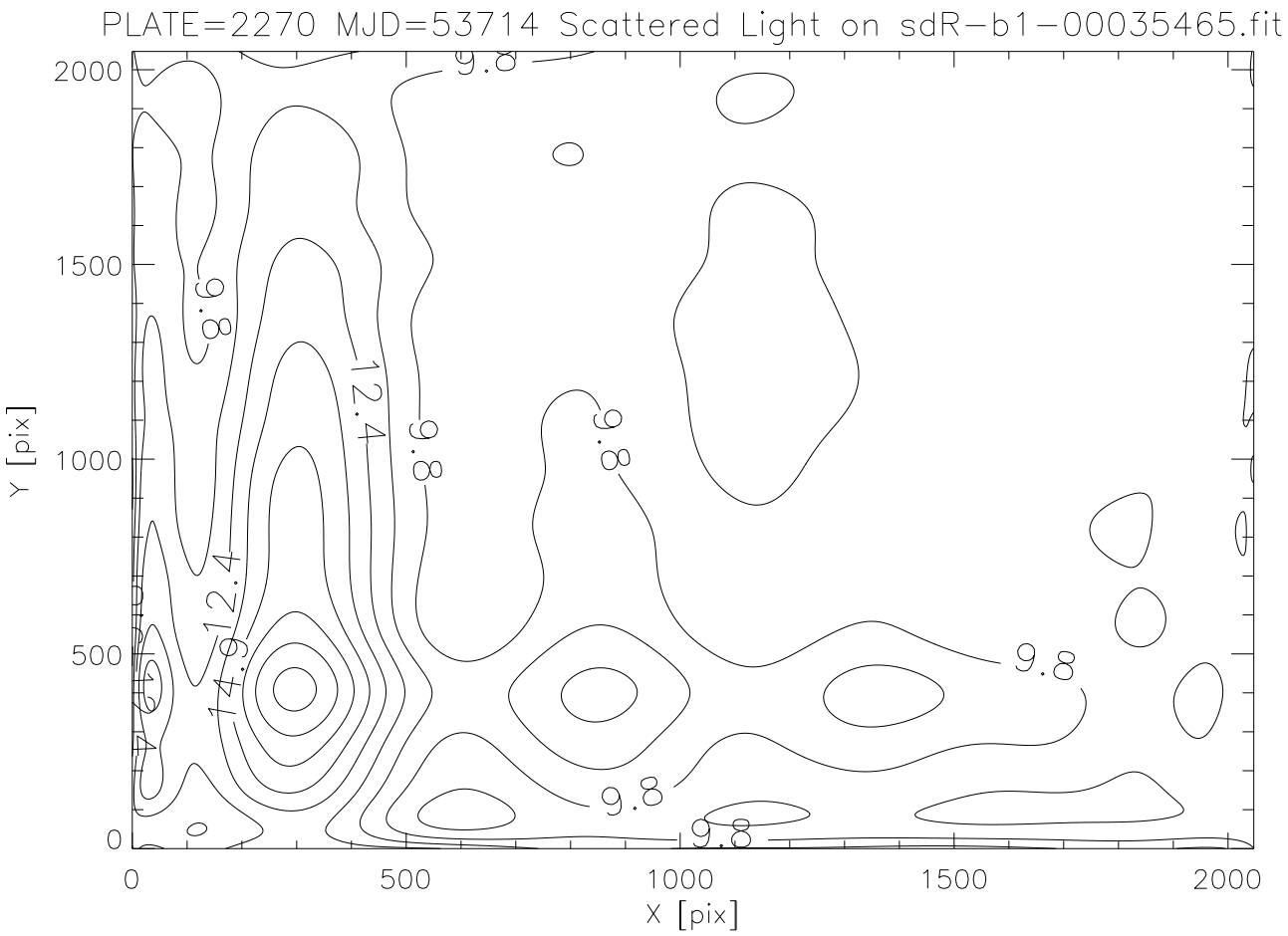
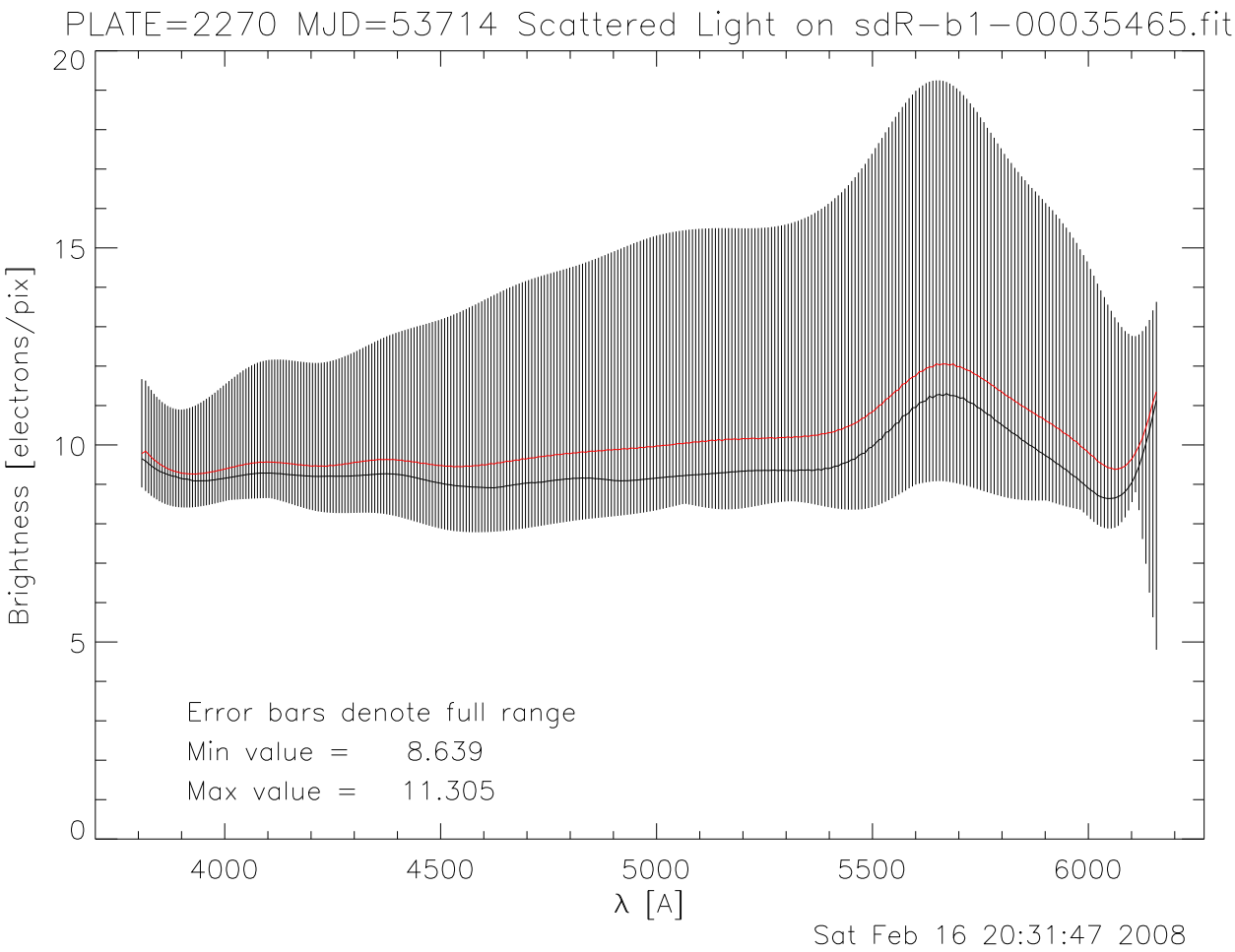
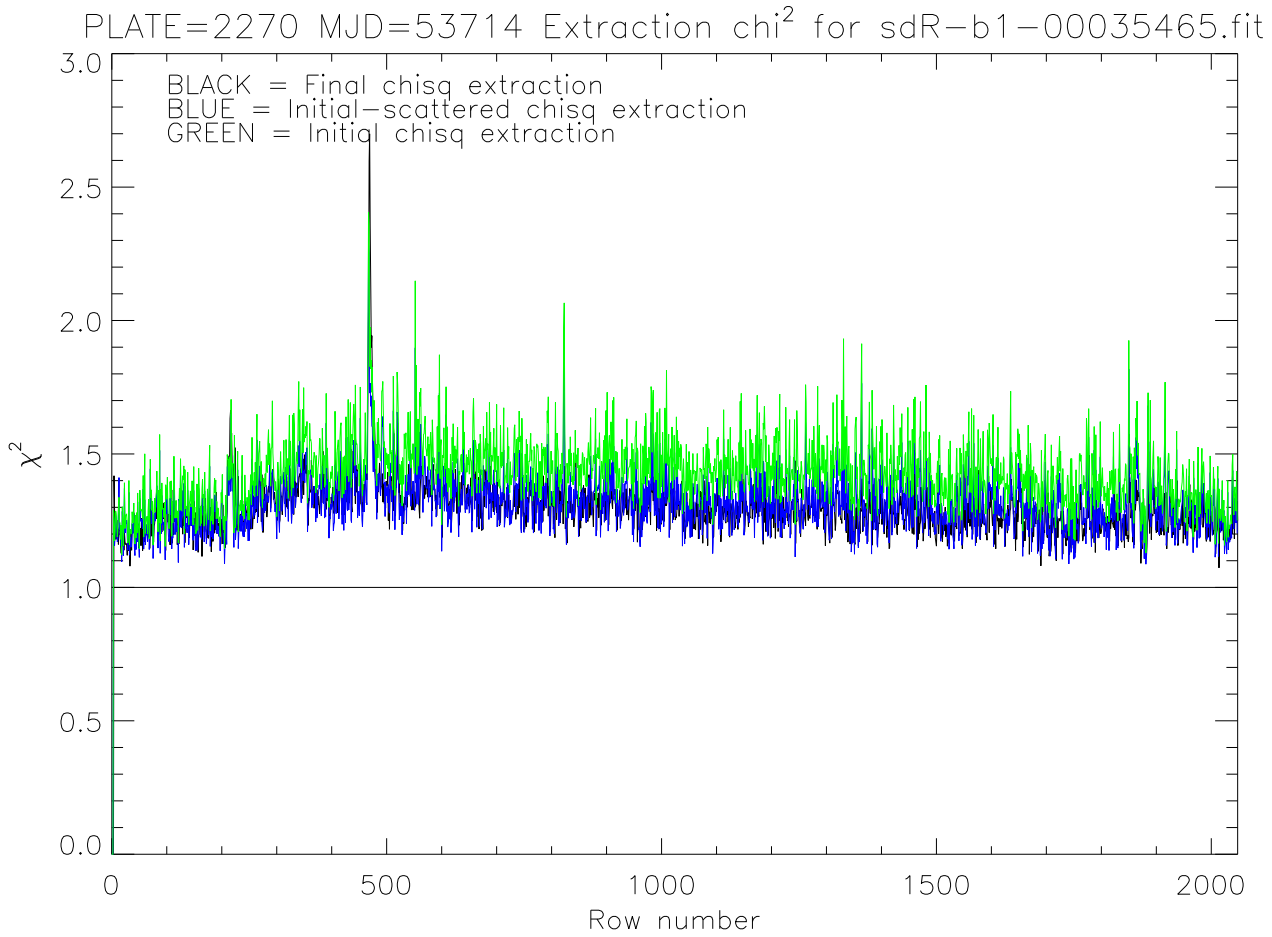
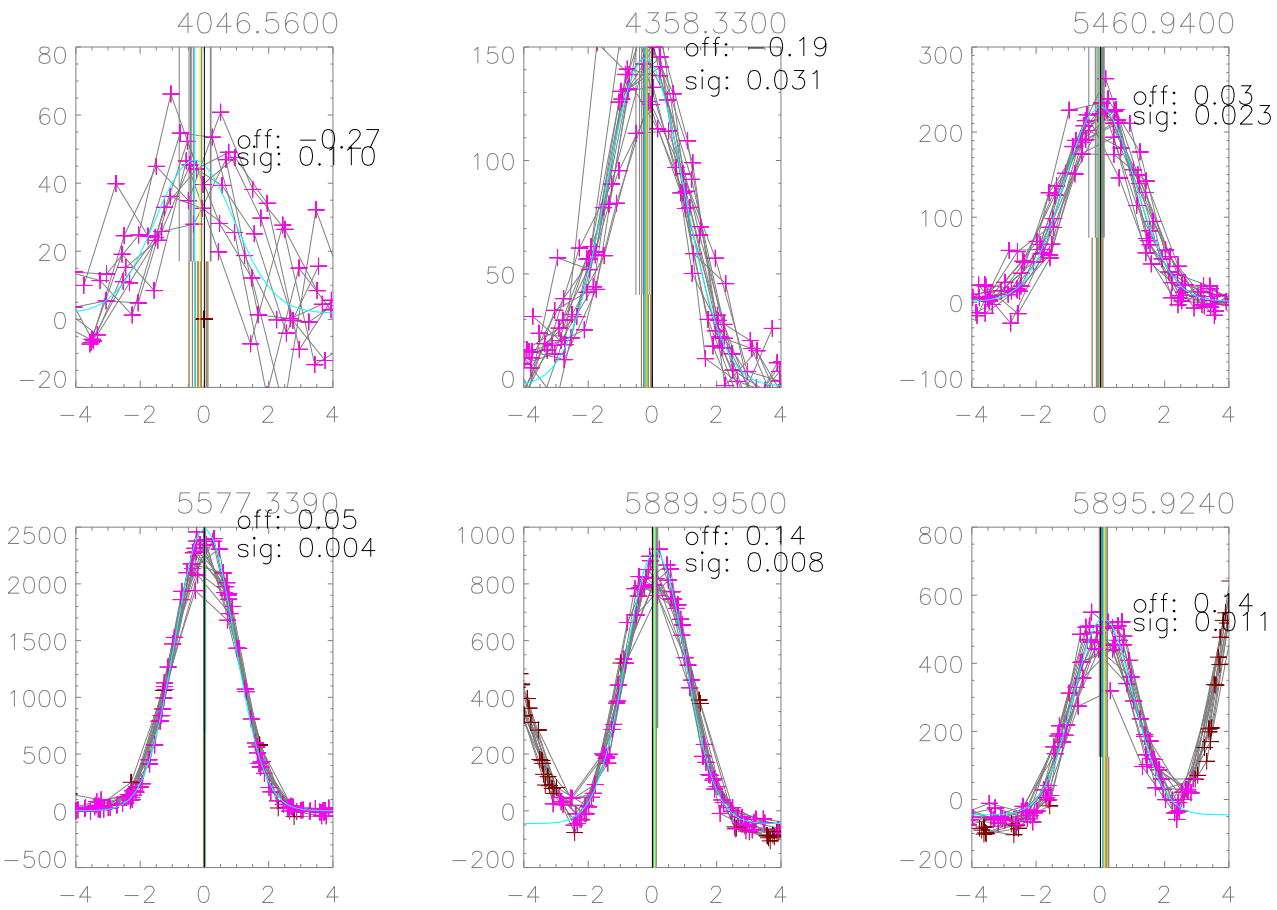
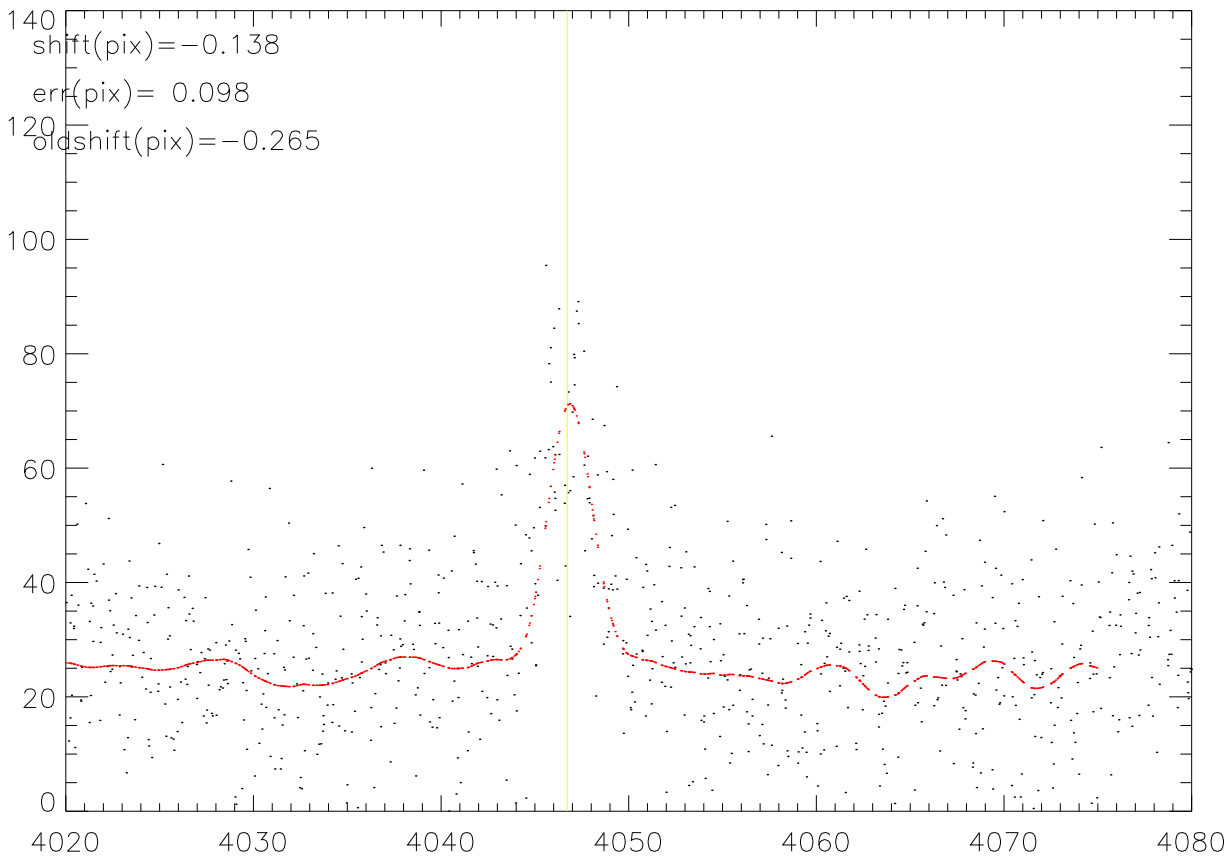
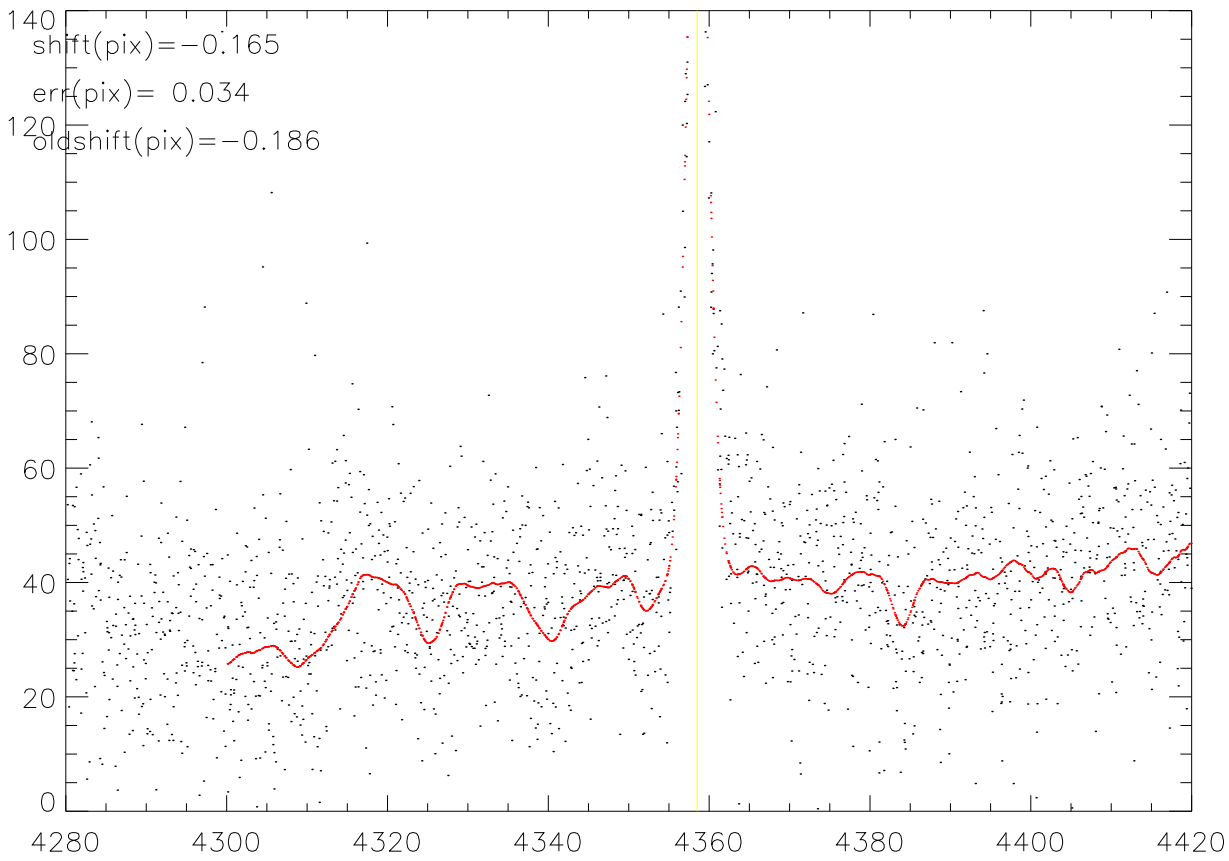

PLATE=2270 MJD=53714 Scattered Light on sdR-b1-00035465.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
9.8
12.4
14.9

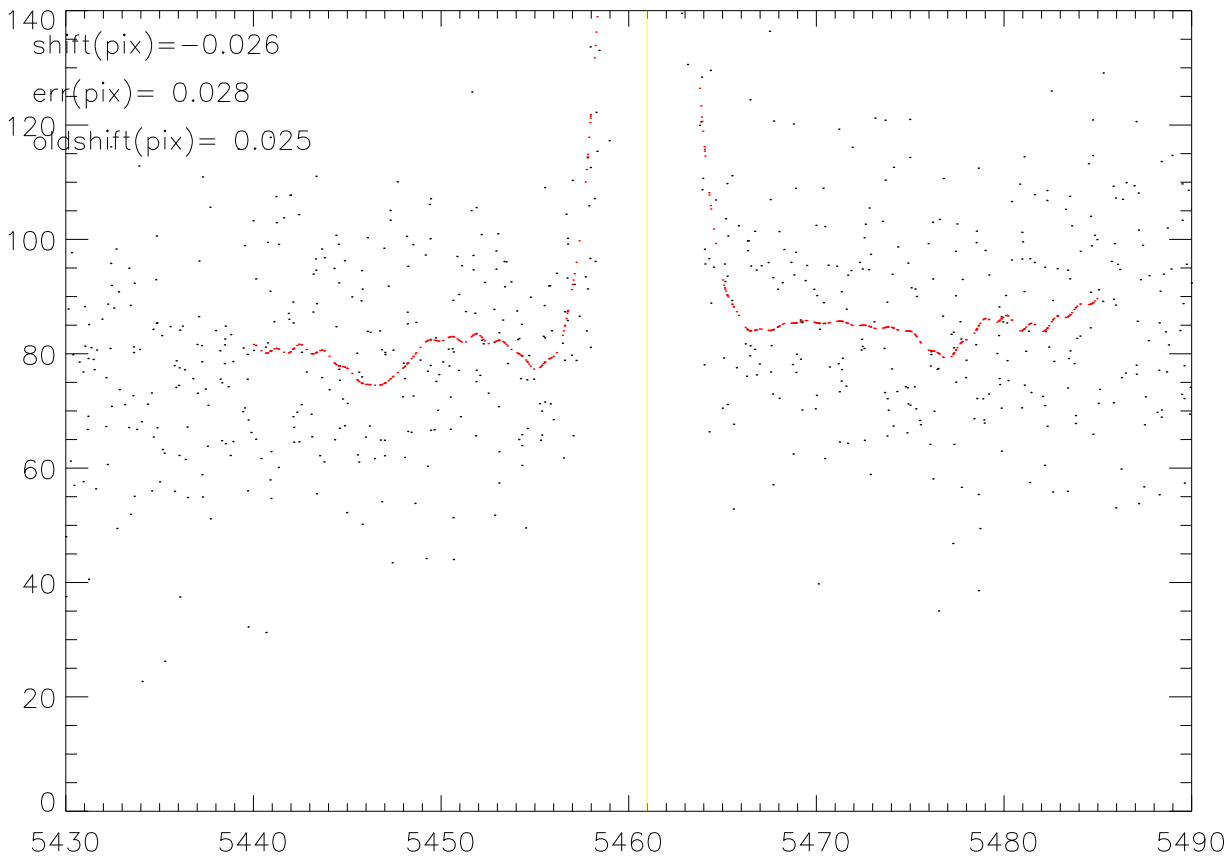

PLATE=2270 MJD=53714 Scattered Light on sdR-b1-00035465.fit
Brightness [electrons/pix]
20
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 8.639
Max value = 11.305
Sat Feb 16 20:31:47 2008

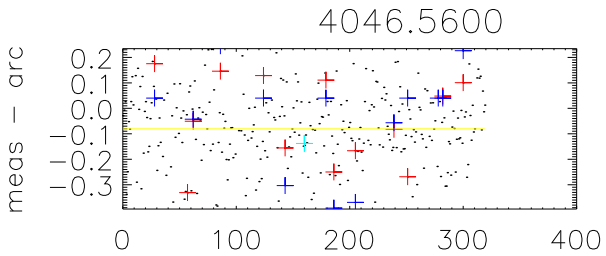

PLATE=2270 MJD=53714 Extraction chi^2 for sdR-b1-00035465.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

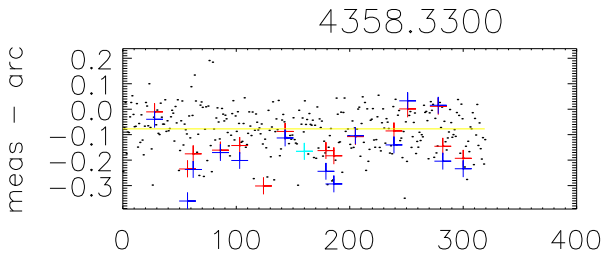

4046.5600
off: −0.27
sig: 0.110
4358.3300
off: −0.19
sig: 0.031
5460.9400
off: 0.03
sig: 0.023
5577.3390
off: 0.05
sig: 0.004
5889.9500
off: 0.14
sig: 0.008
5895.9240
off: 0.14
sig: 0.011

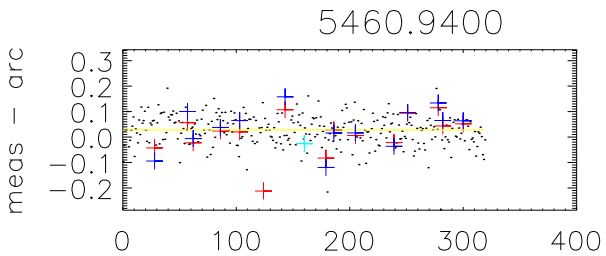

shift(pix)=−0.138
err(pix)= 0.098
oldshift(pix)=−0.265
140
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

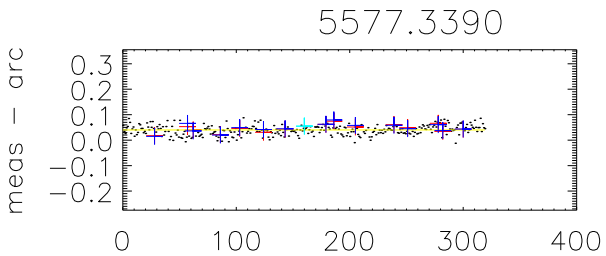

shift(pix)=−0.165
err(pix)= 0.034
oldshift(pix)=−0.186
140
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

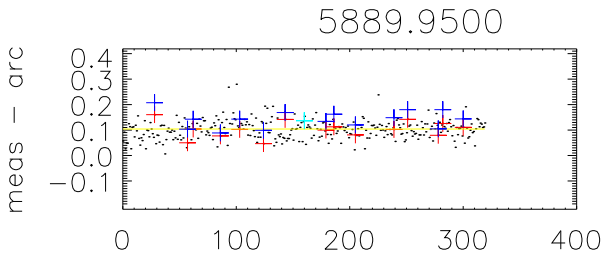

shift(pix)=−0.026
err(pix)= 0.028
oldshift(pix)= 0.025
140
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

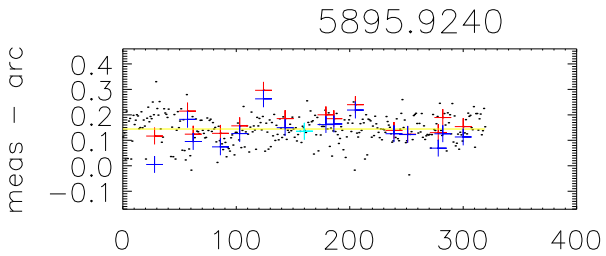

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

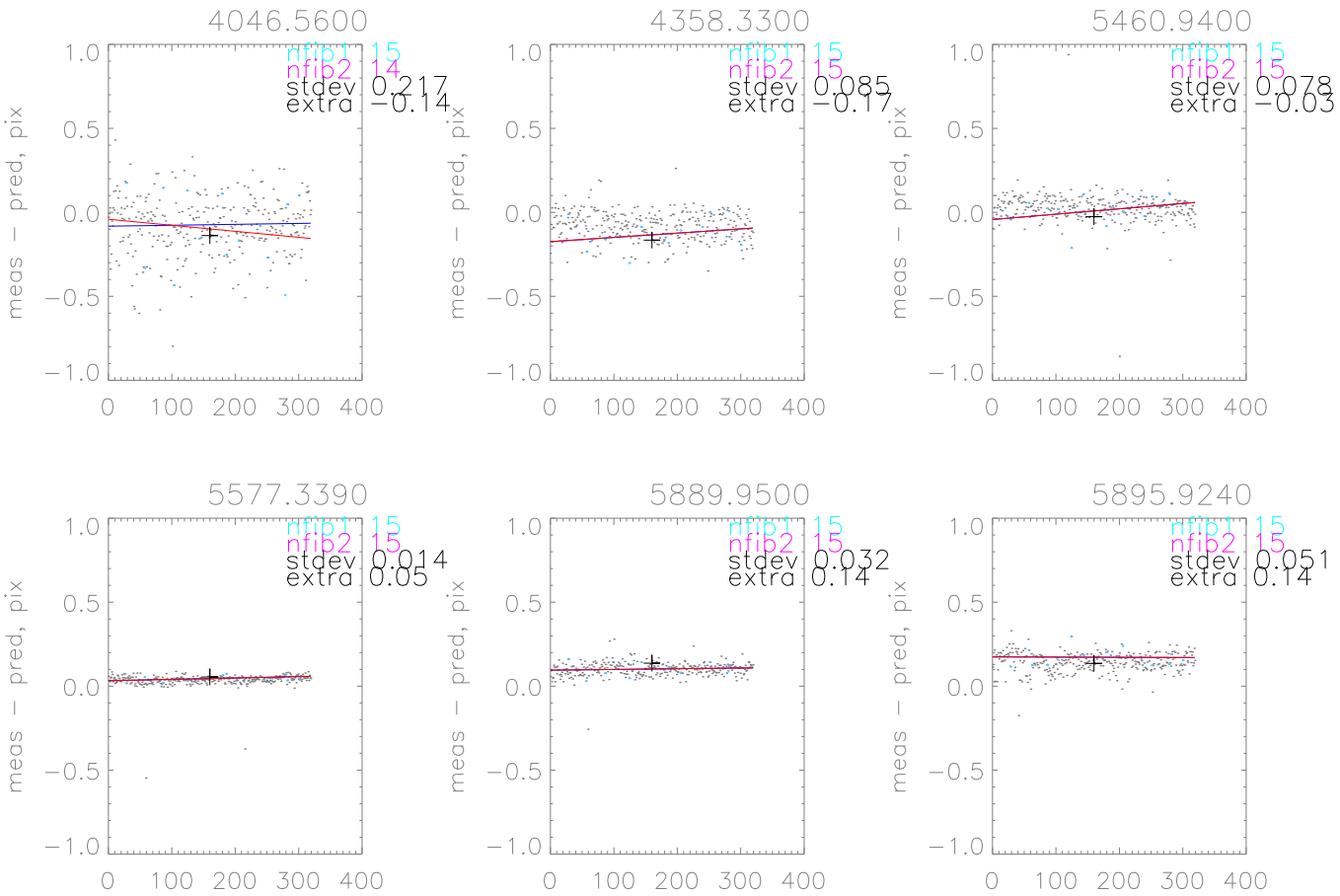

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

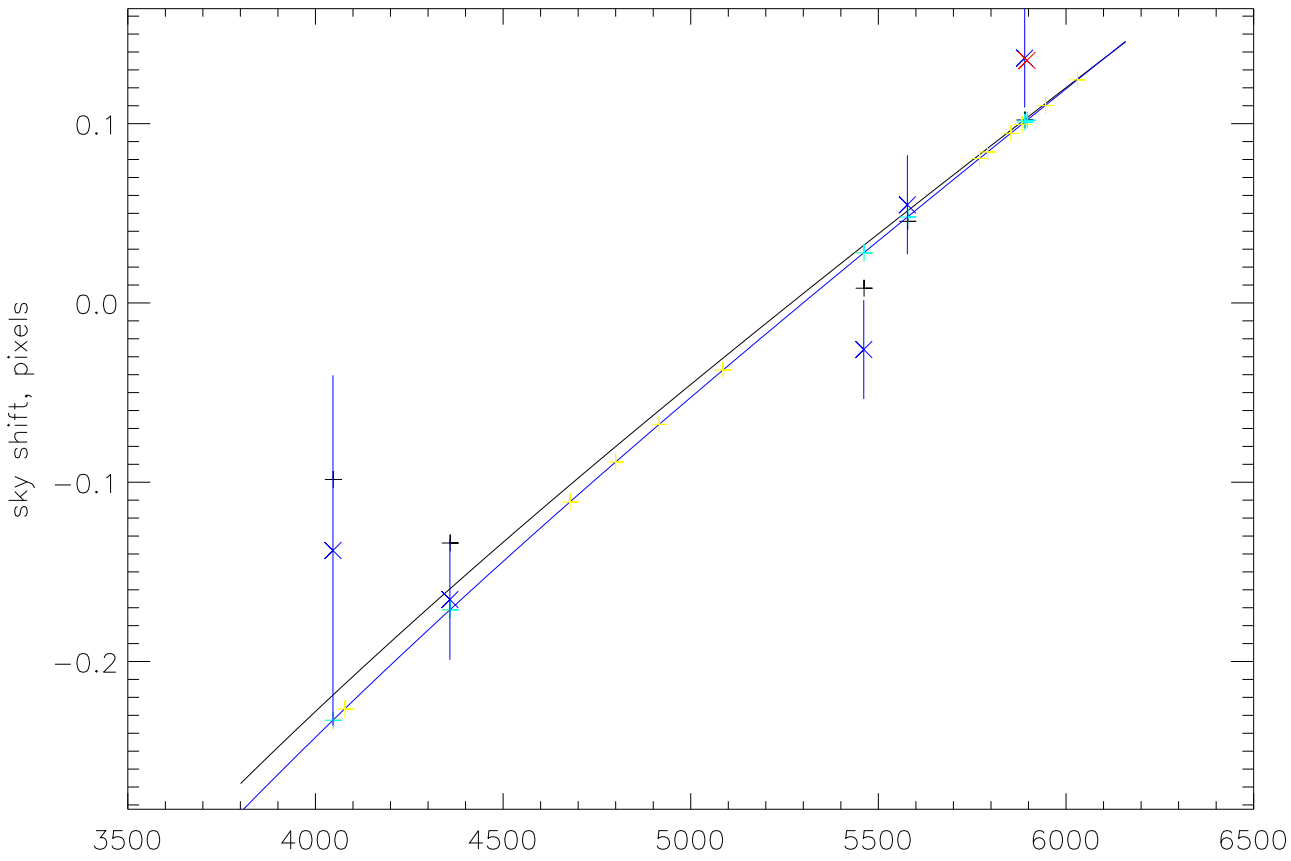

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

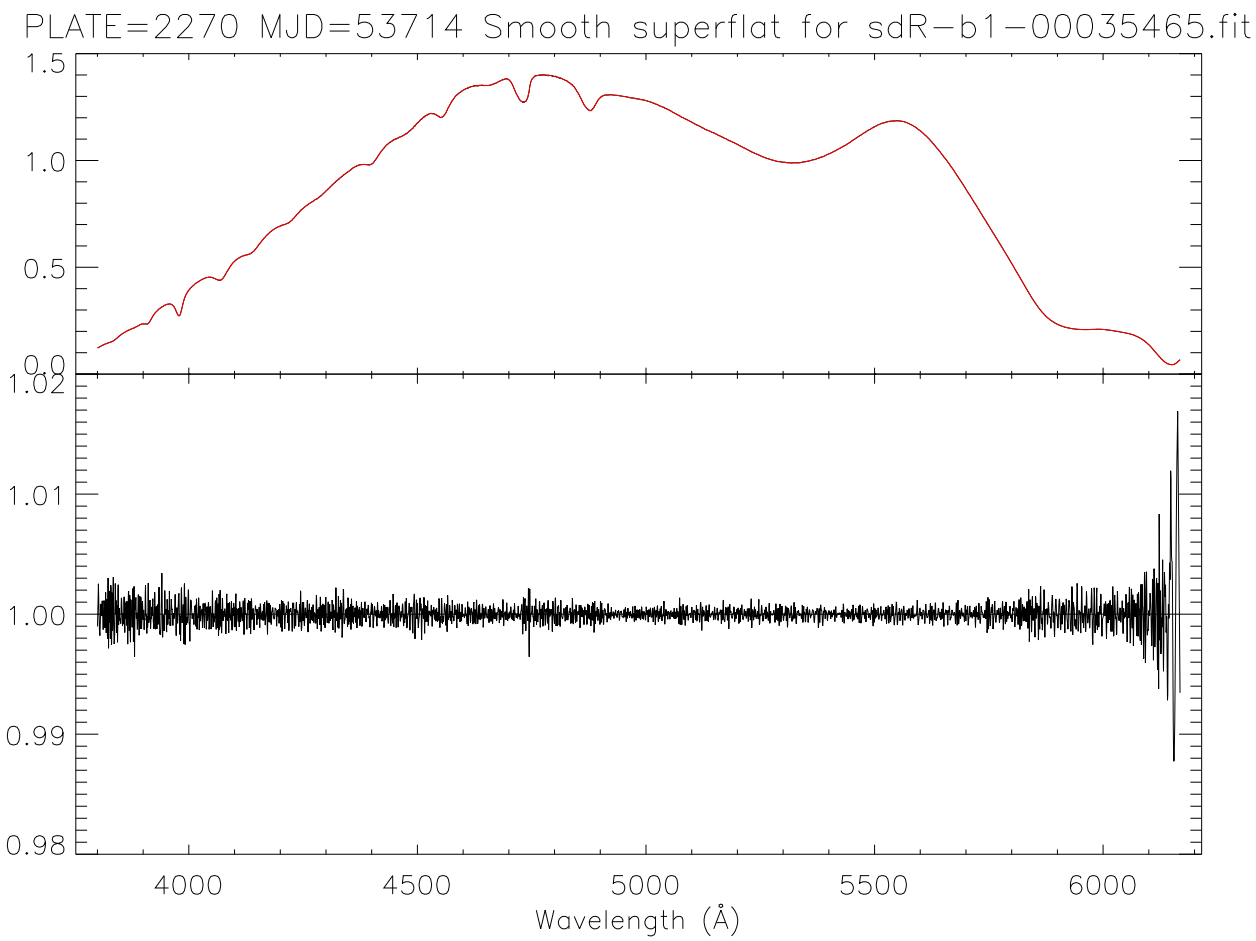

5889.9500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

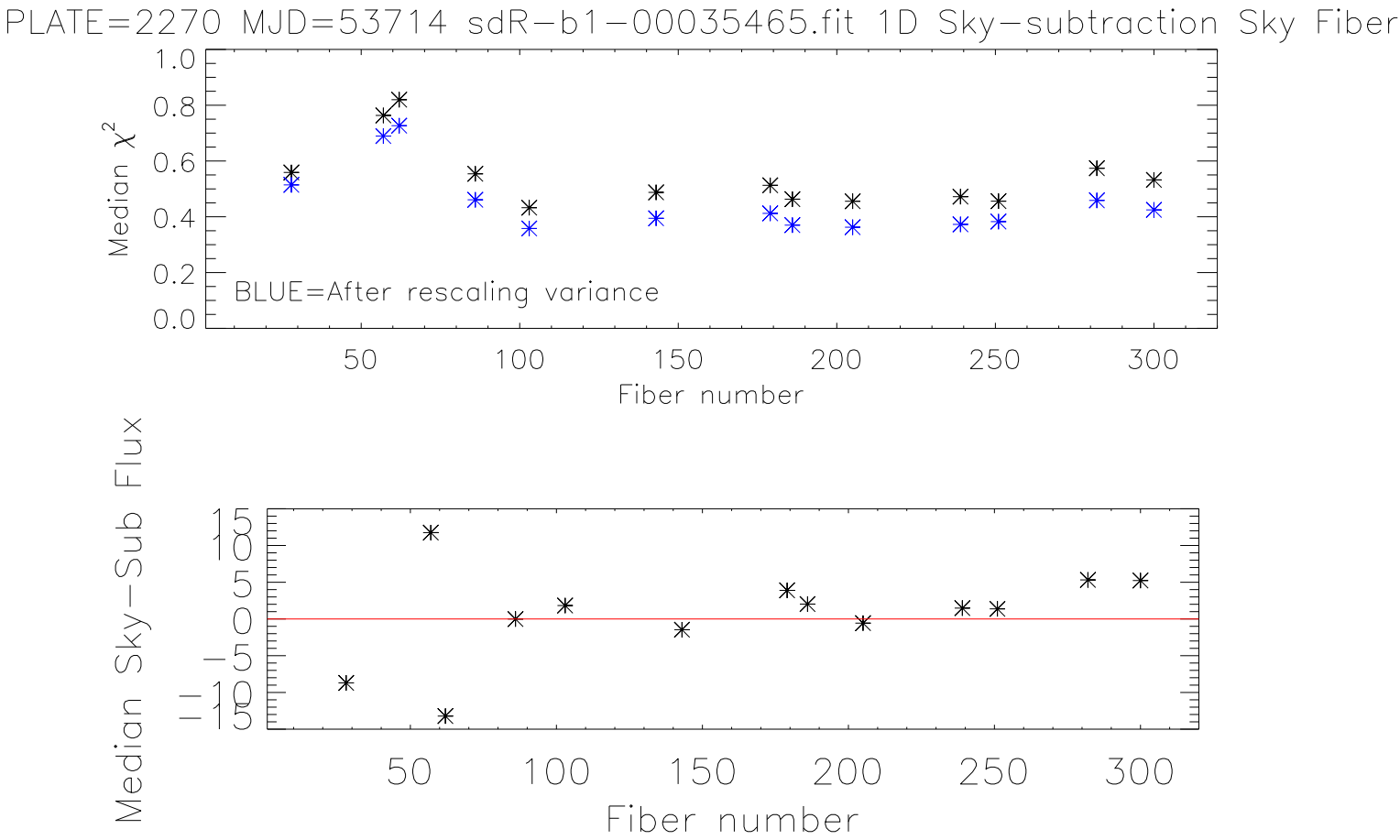

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

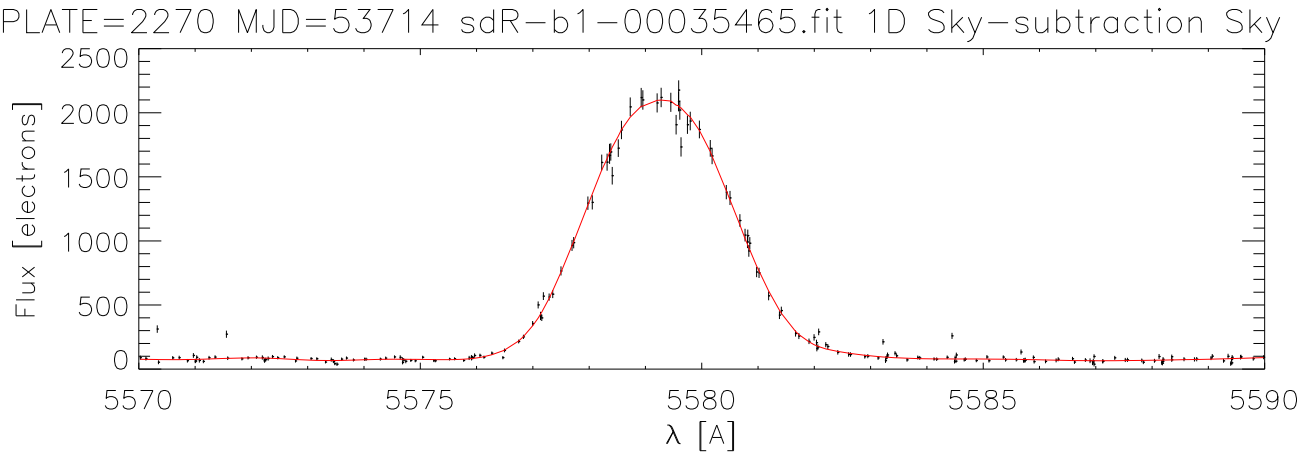

4046.5600
nfib1 15
nfib2 14
stdev 0.217
extra −0.14
4358.3300
nfib1 15
nfib2 15
stdev 0.085
extra −0.17
5460.9400
nfib1 15
nfib2 15
stdev 0.078
extra −0.03
5577.3390
nfib1 15
nfib2 15
stdev 0.014
extra 0.05
5889.9500
nfib1 15
nfib2 15
stdev 0.032
extra 0.14
5895.9240
nfib1 15
nfib2 15
stdev 0.051
extra 0.14
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

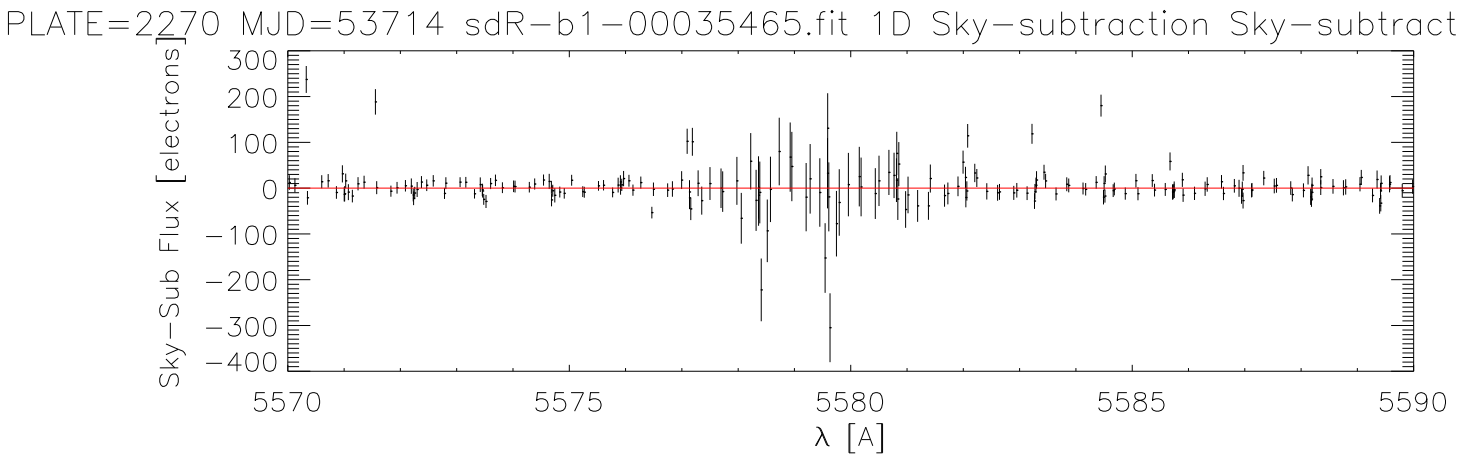

sky shift, pixels
0.1
0.0
−0.1
−0.2
3500
4000
4500
5000
5500
6000
6500

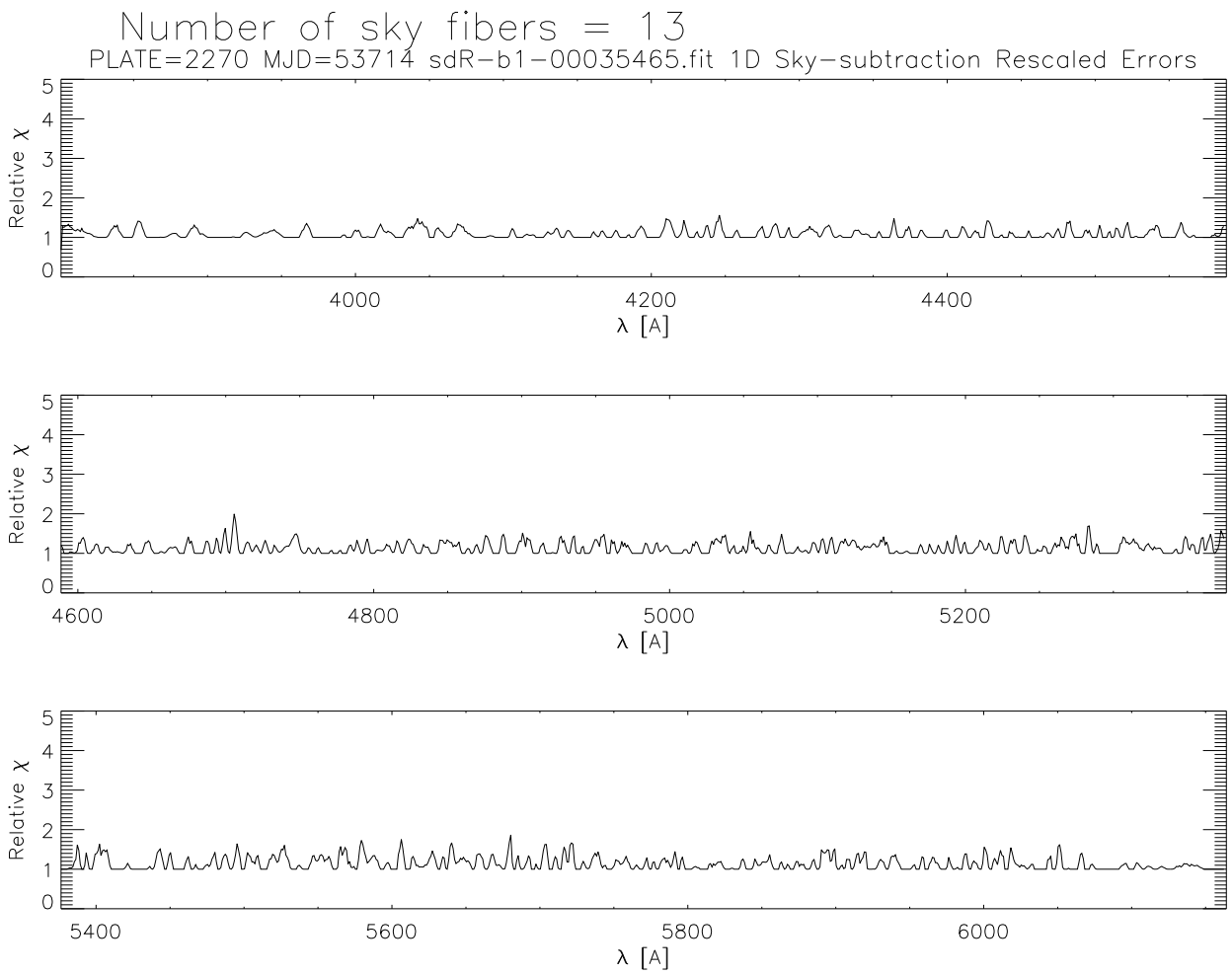
es= −0.0001

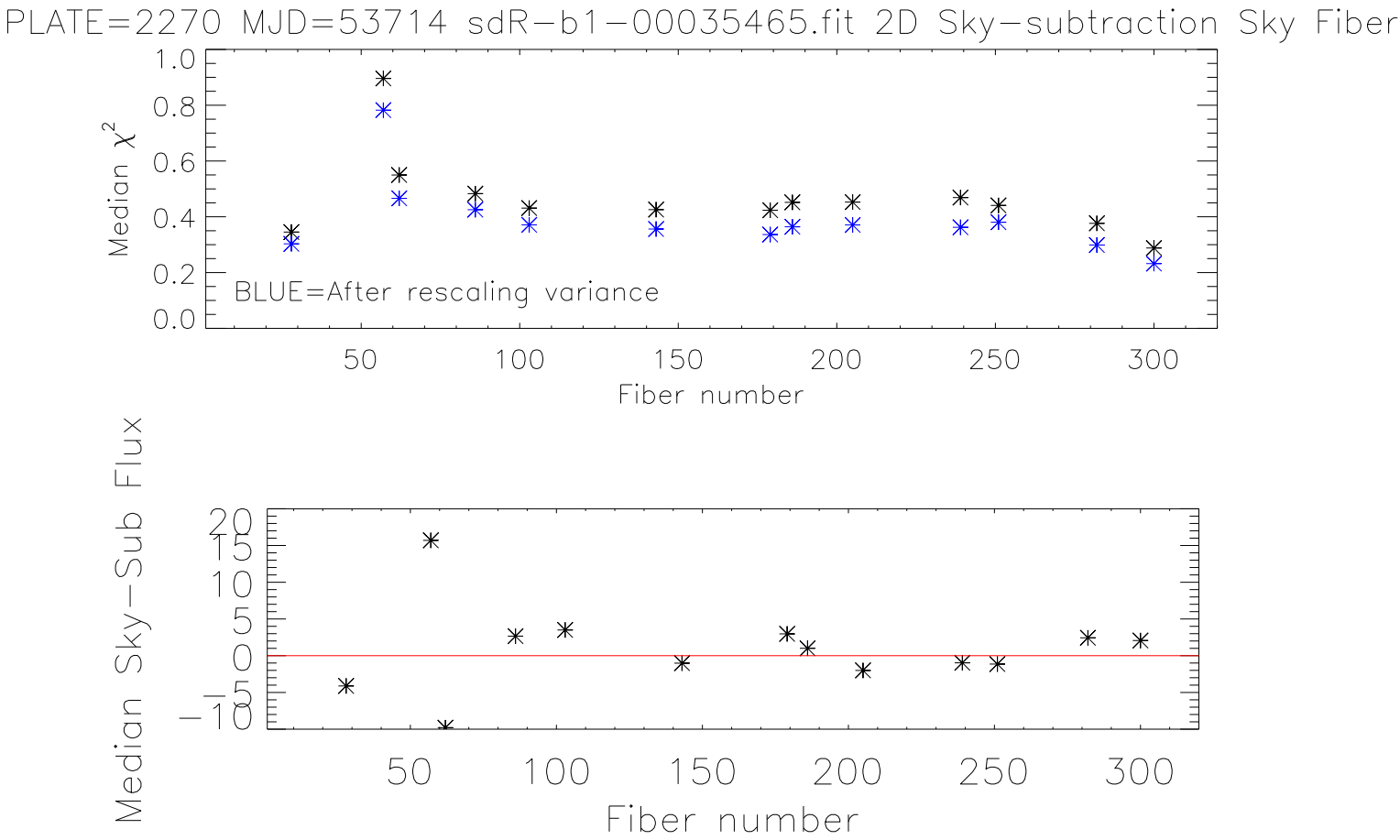

PLATE=2270 MJD=53714 Smooth superflat for sdR−b1−00035465.fit
1.5
1.0
0.5
0.0
1.02
1.01
1.00
0.99
0.98
4000
4500
5000
5500
6000
Wavelength (Å)

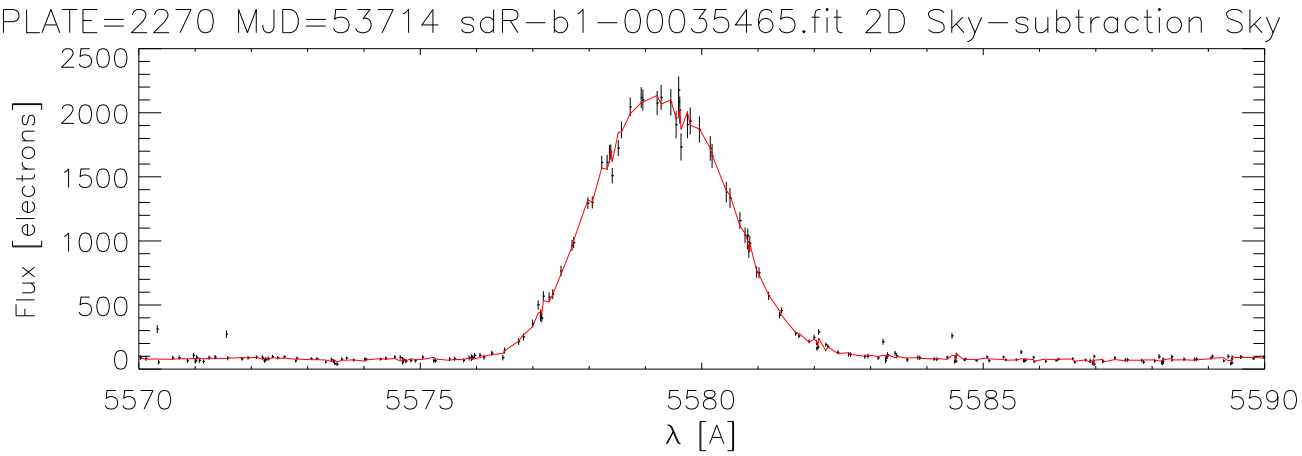

PLATE=2270 MJD=53714 sdR-b1-00035465.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

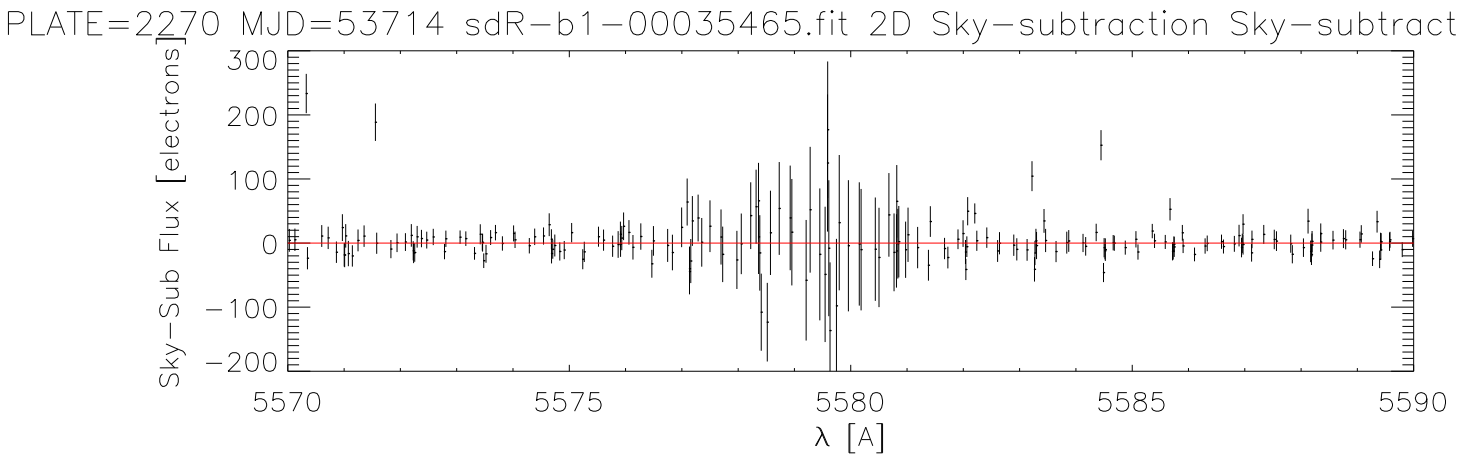

PLATE=2270 MJD=53714 sdR-b1-00035465.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

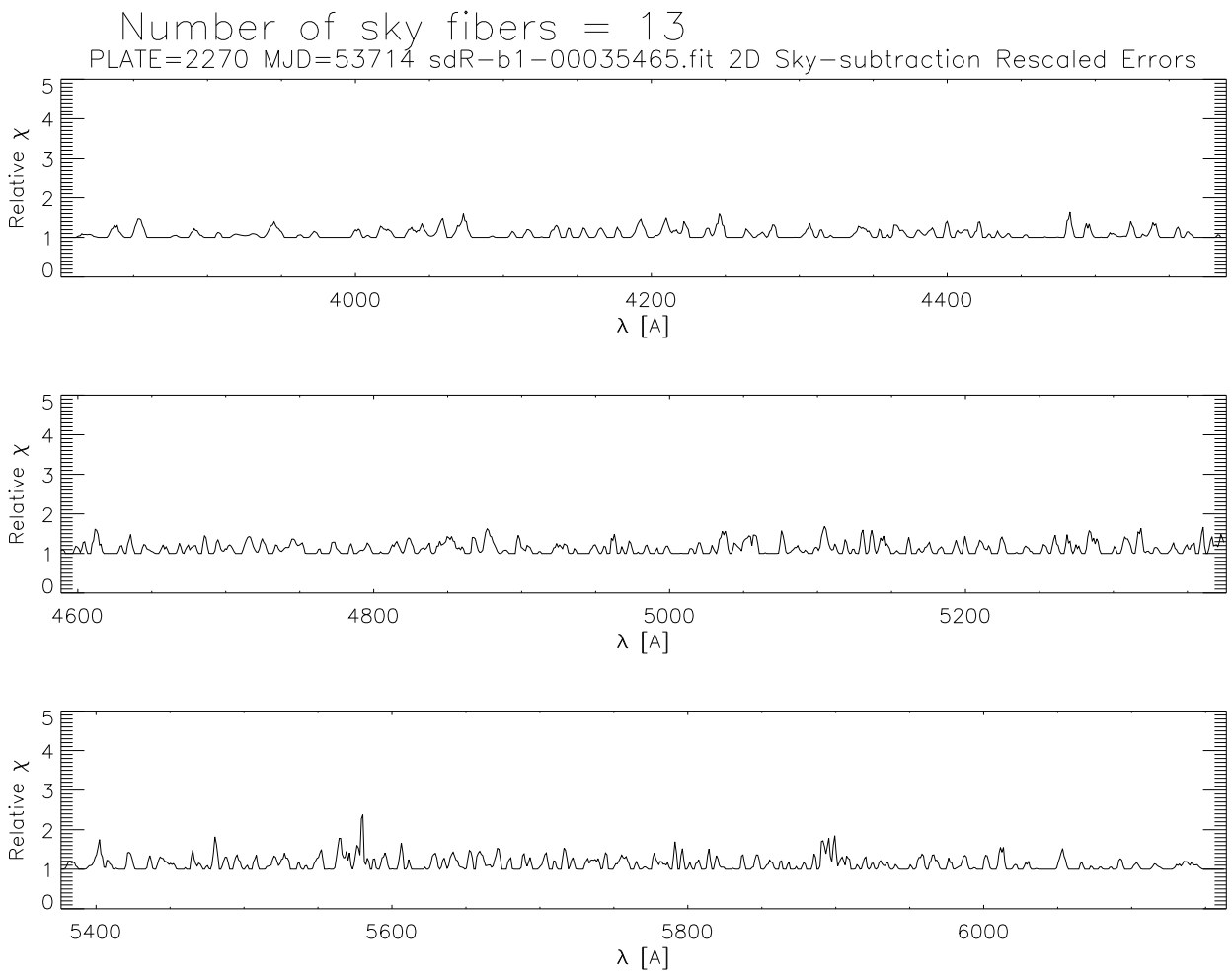

PLATE=2270 MJD=53714 sdR-b1-00035465.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
-400
5570
5575
5580
5585
5590
λ [A]

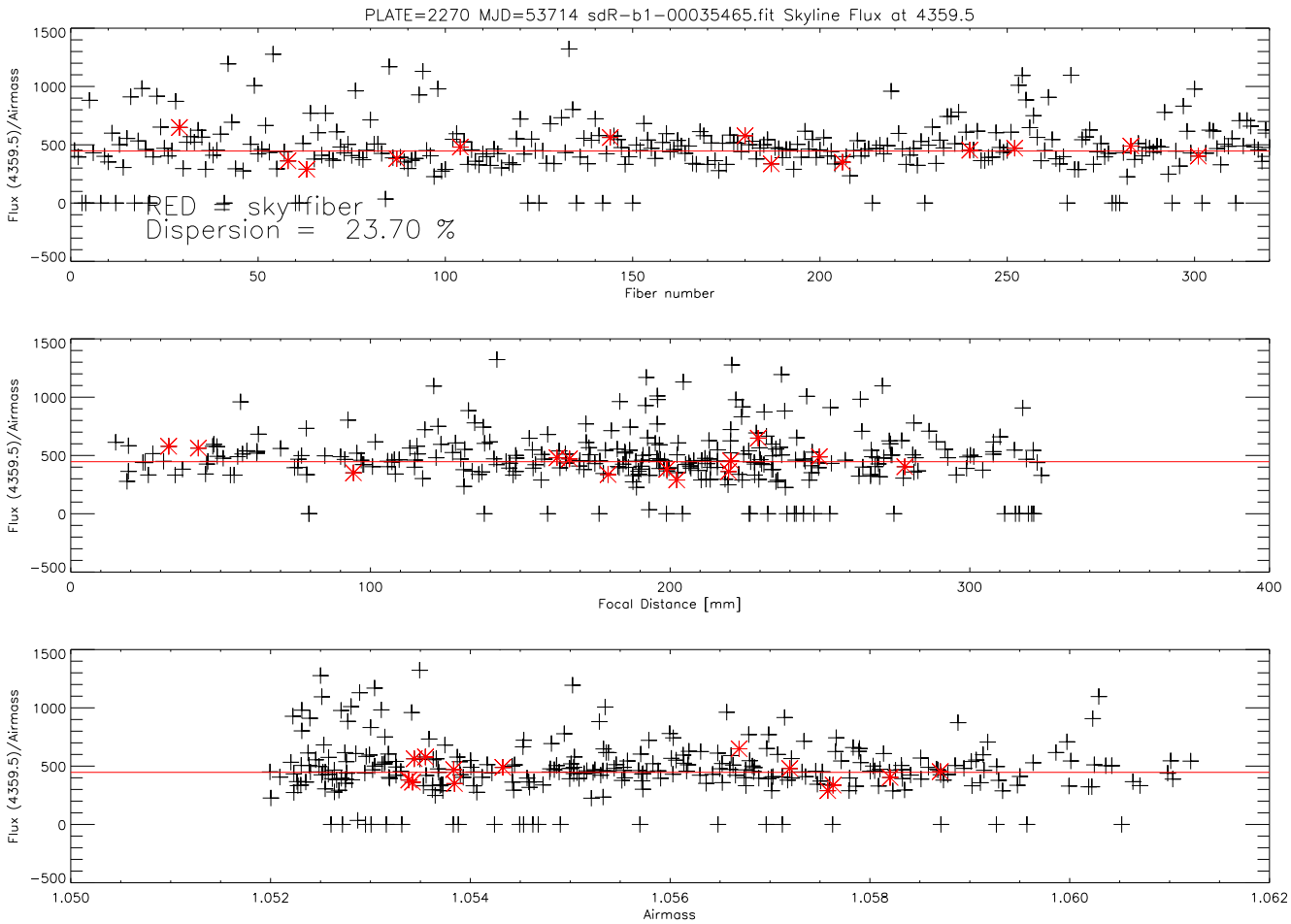

Number of sky fibers = 13
PLATE=2270 MJD=53714 sdR-b1-00035465.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

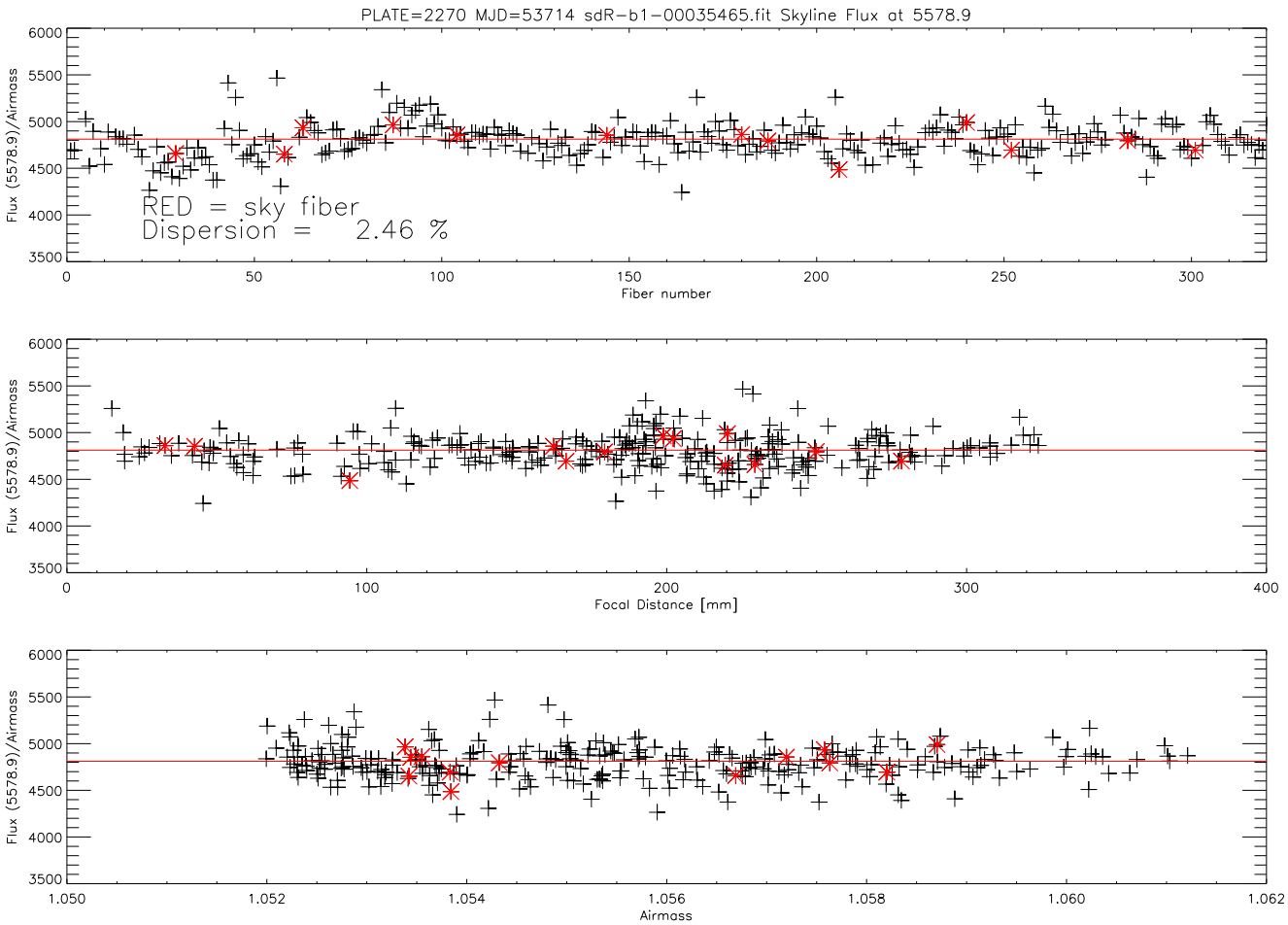

PLATE=2270 MJD=53714 sdR-b1-00035465.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

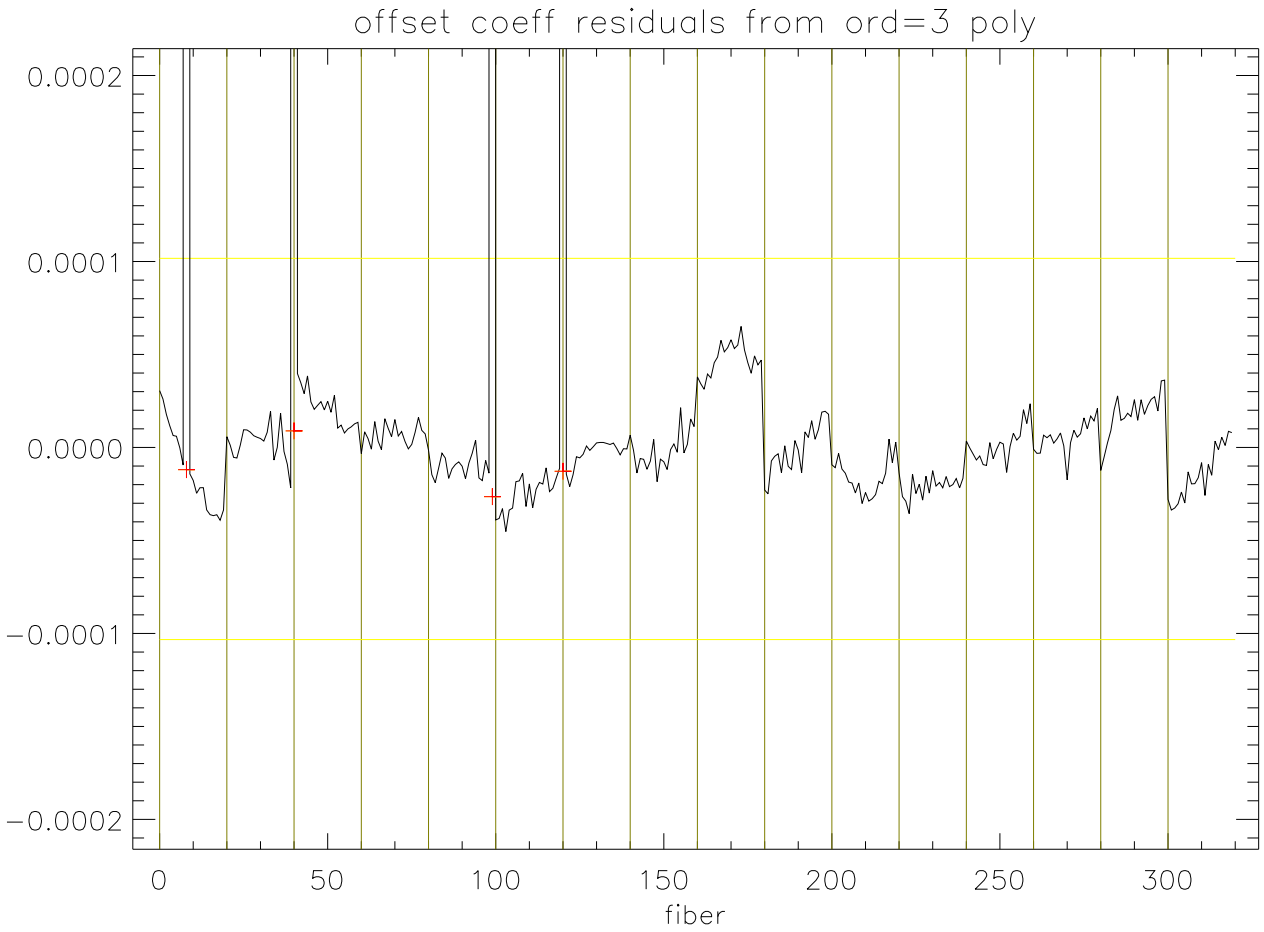

PLATE=2270 MJD=53714 sdR-b1-00035465.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

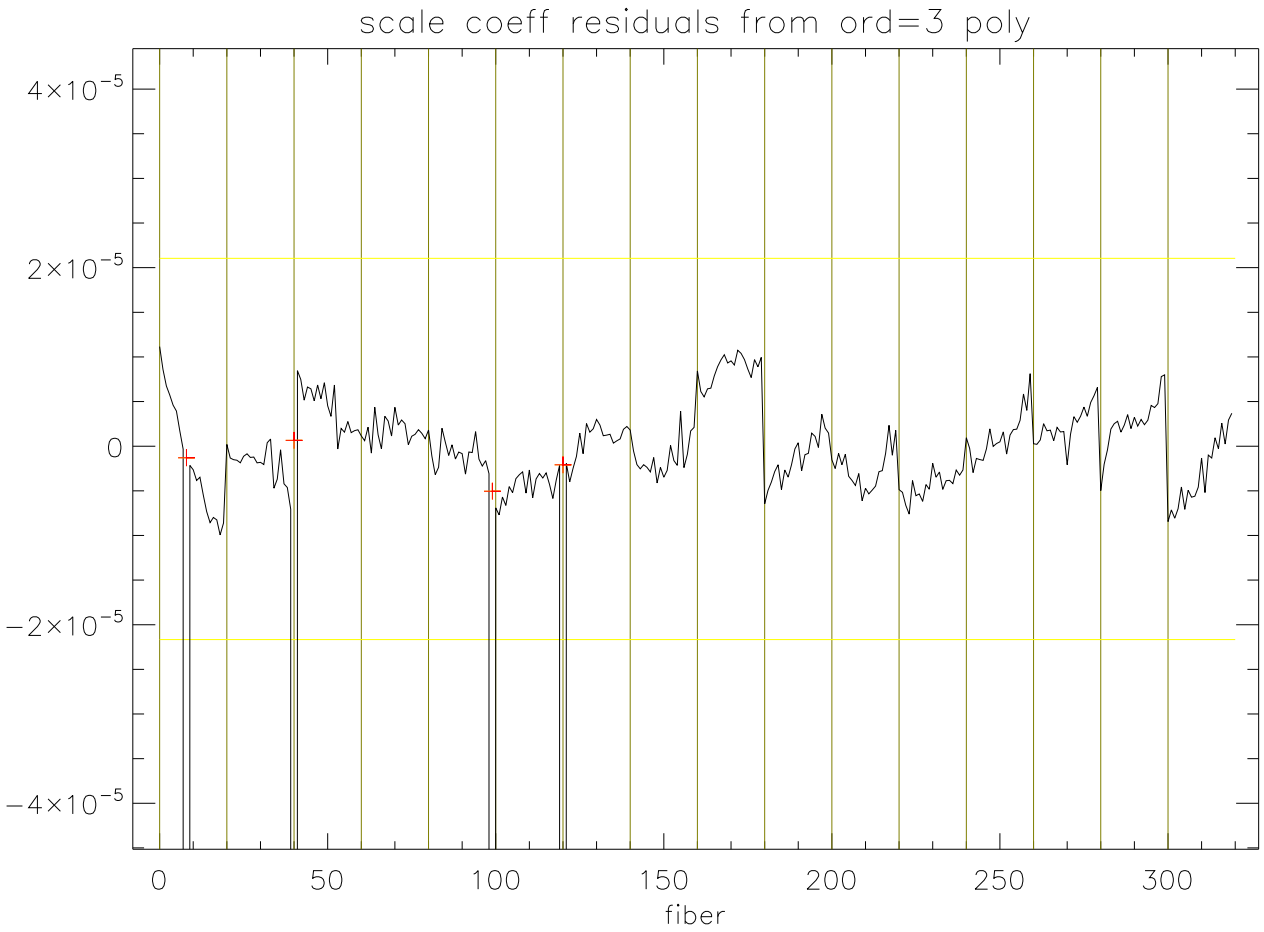

PLATE=2270 MJD=53714 sdR-b1-00035465.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

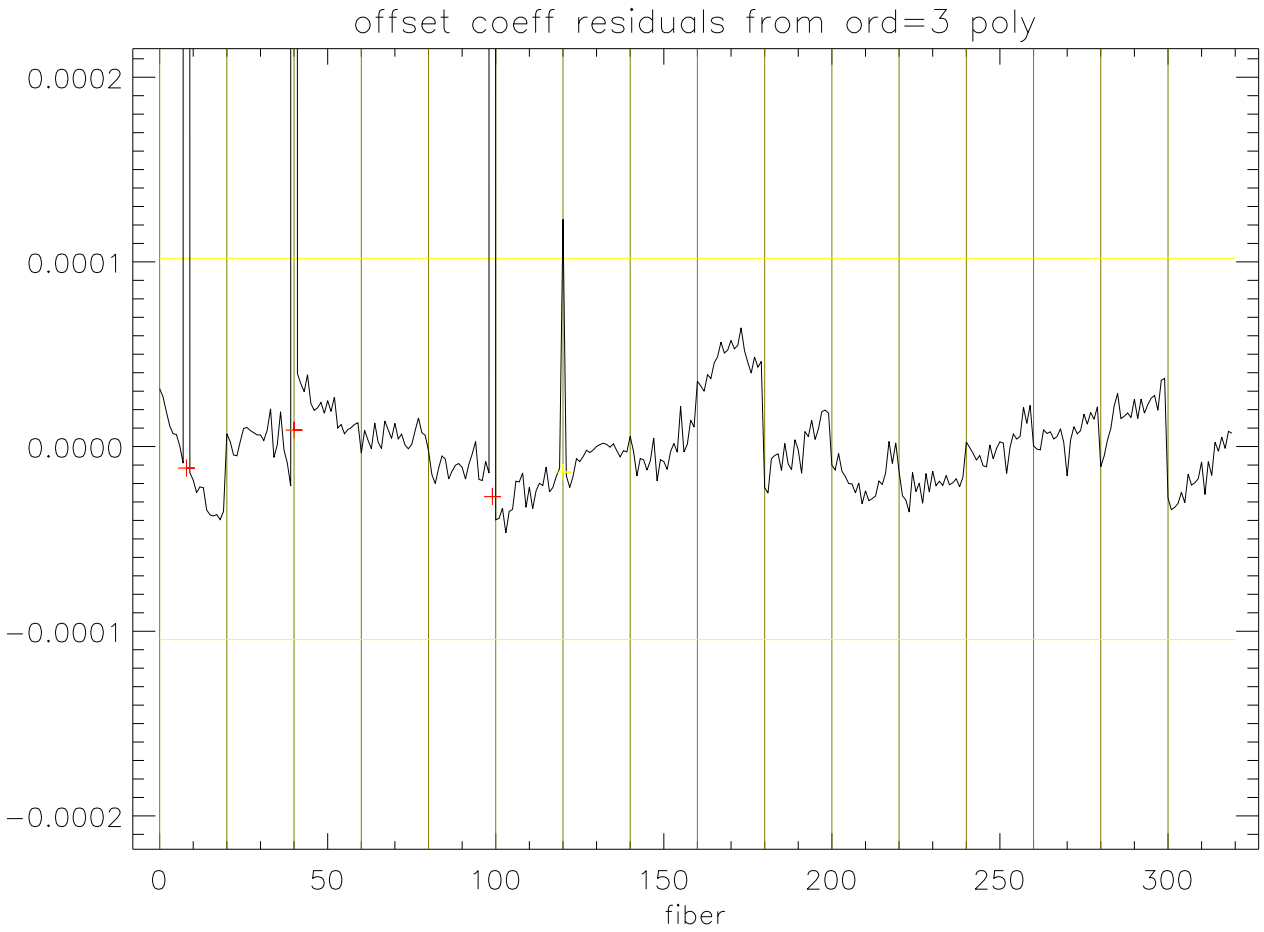

Number of sky fibers = 13
PLATE=2270 MJD=53714 sdR-b1-00035465.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

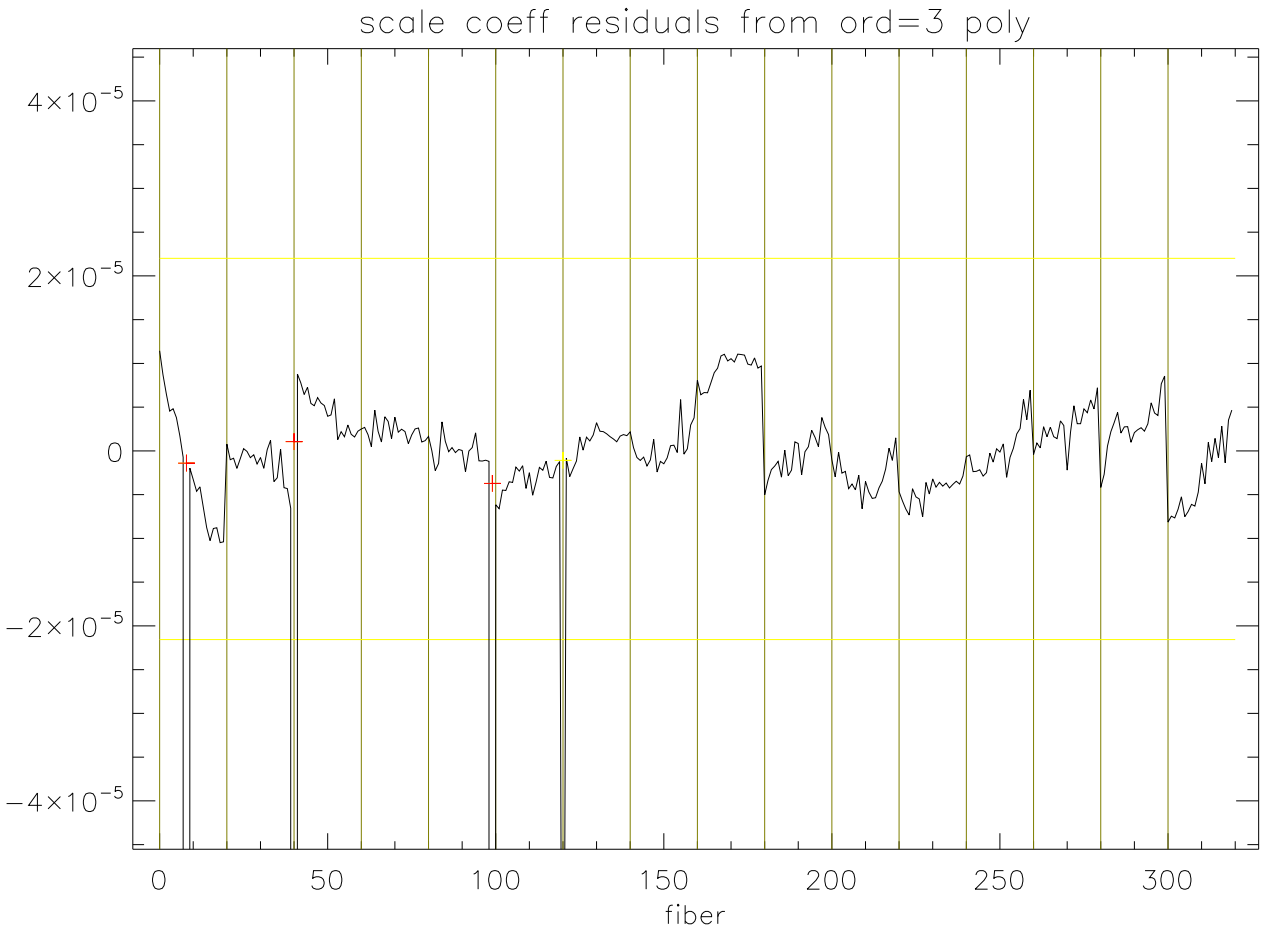

PLATE=2270 MJD=53714 sdR-b1-00035465.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 23.70 %
Fiber number
Focal Distance [mm]
Airmass

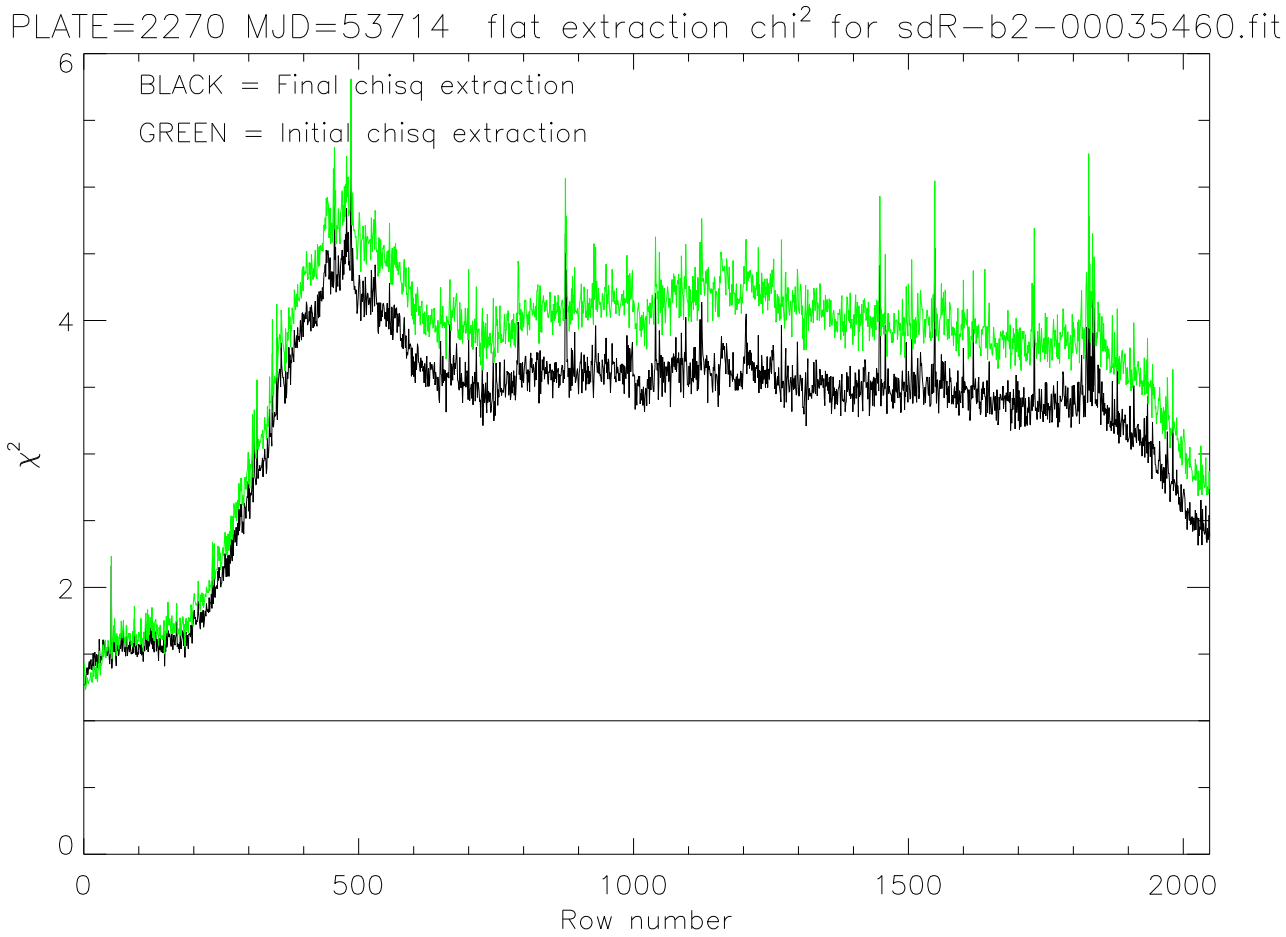

PLATE=2270 MJD=53714 sdR-b1-00035465.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.46 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

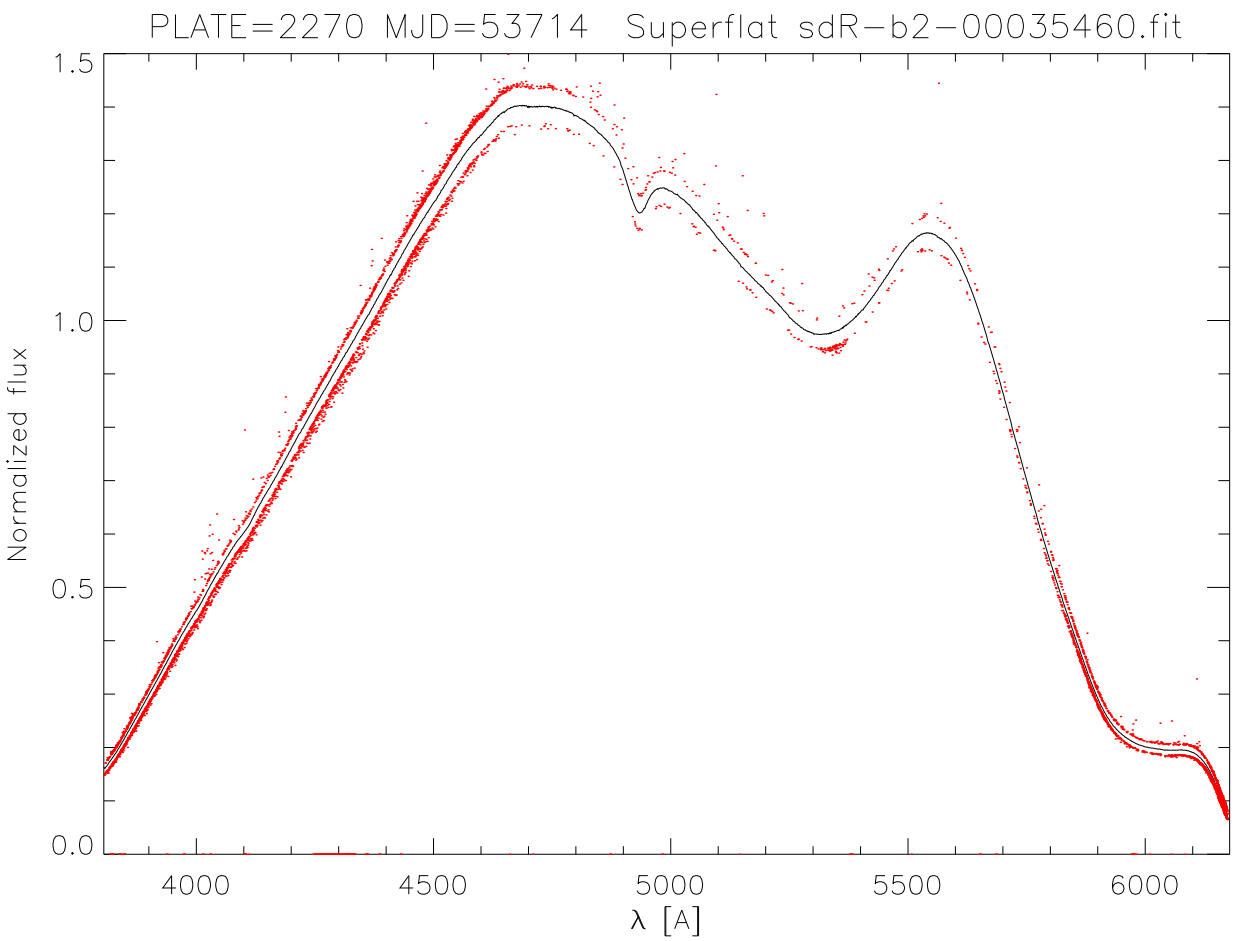

offset coeff residuals from ord=3 poly
0.0002
0.0001
0.0000
−0.0001
−0.0002
0
50
100
150
200
250
300
fiber

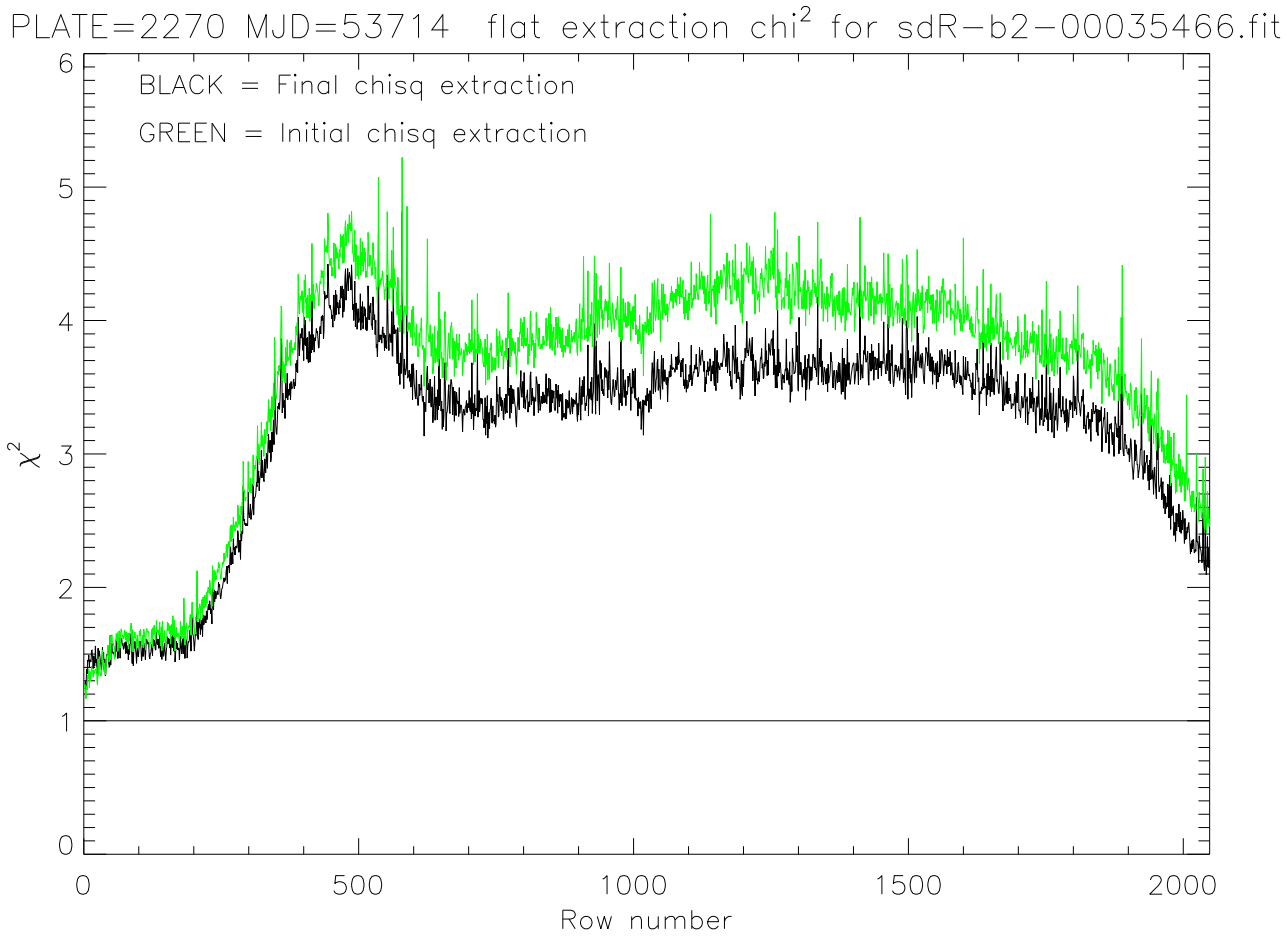

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

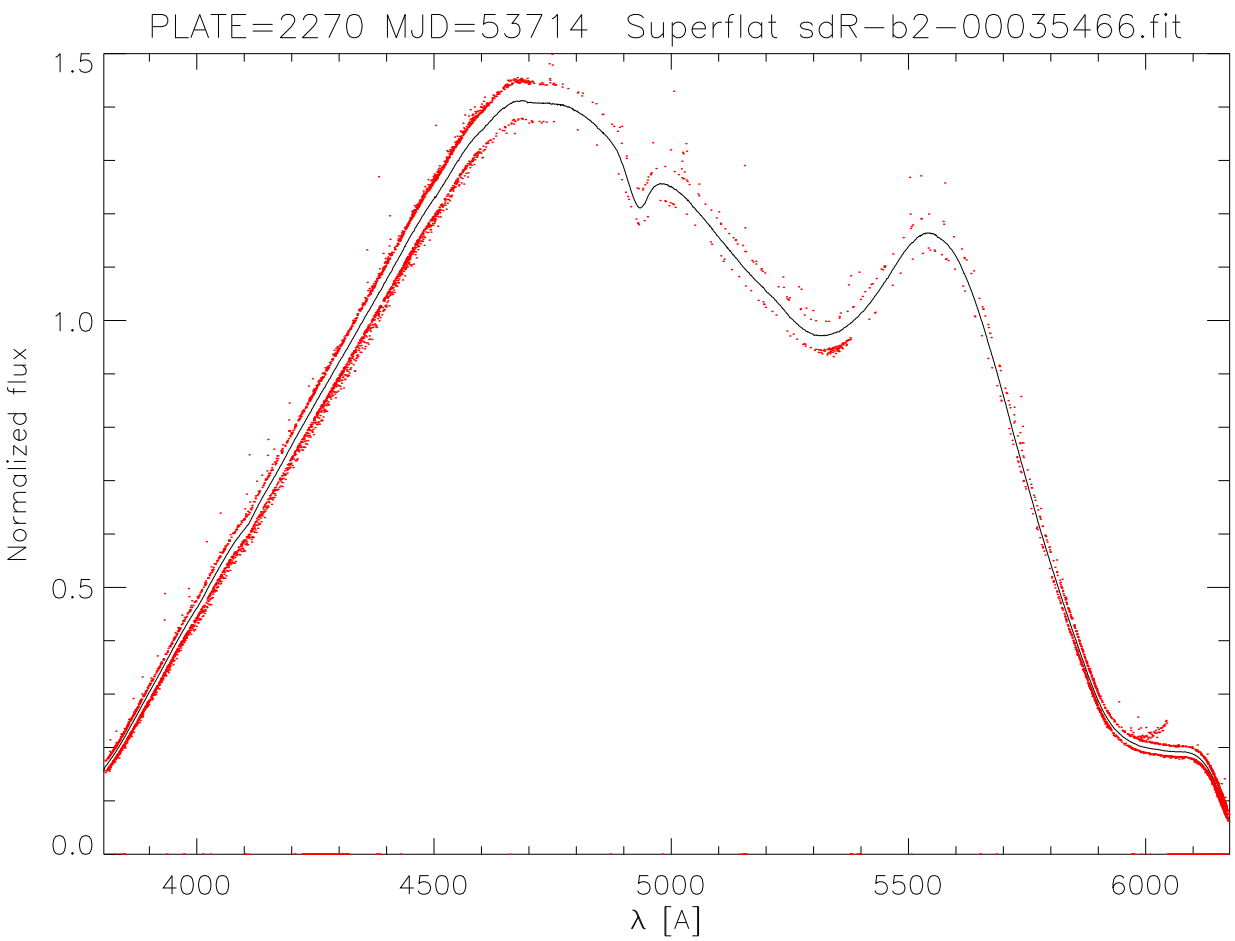

offset coeff residuals from ord=3 poly
0.0002
0.0001
0.0000
−0.0001
−0.0002
0
50
100
150
200
250
300
fiber

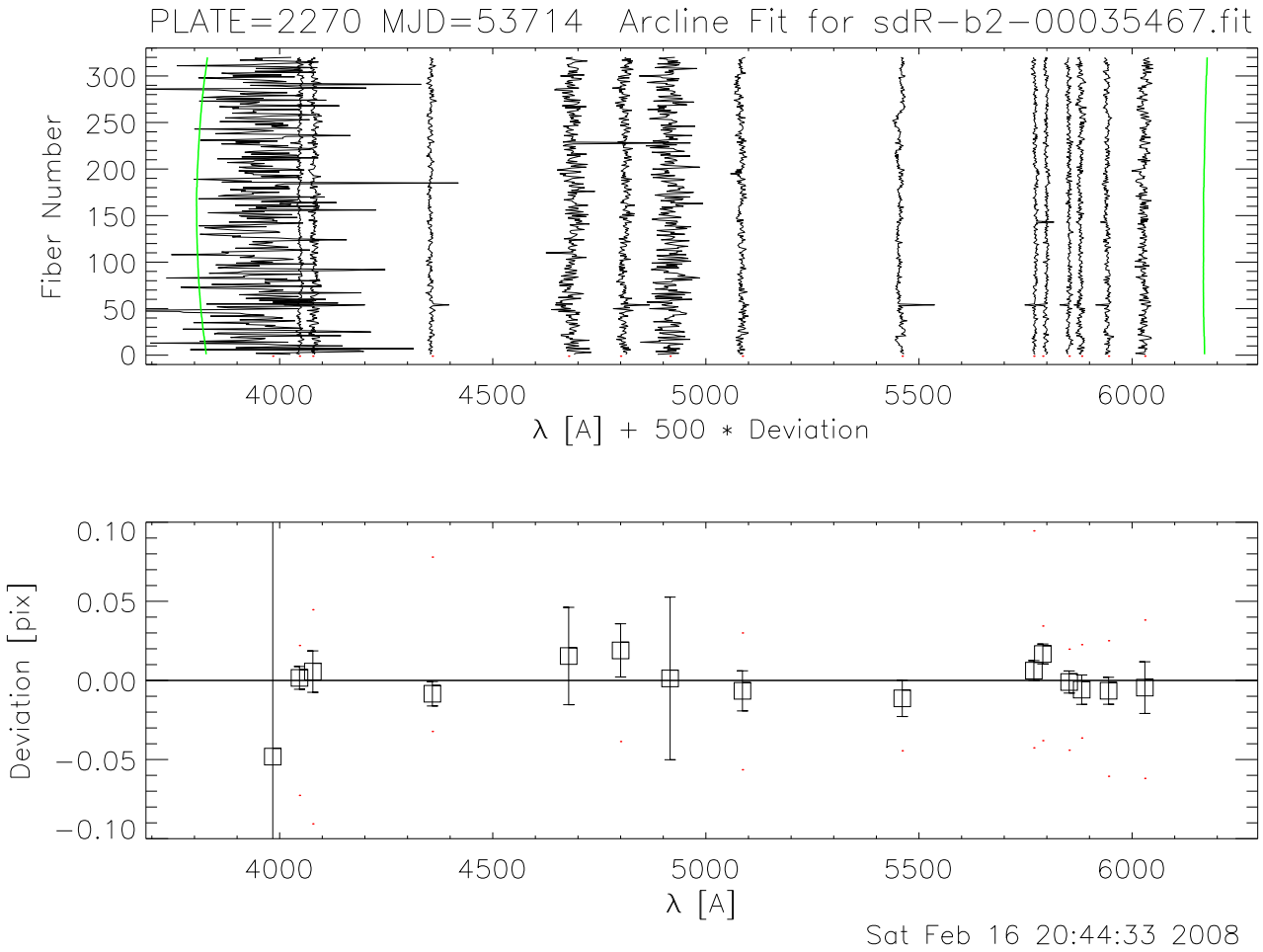

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

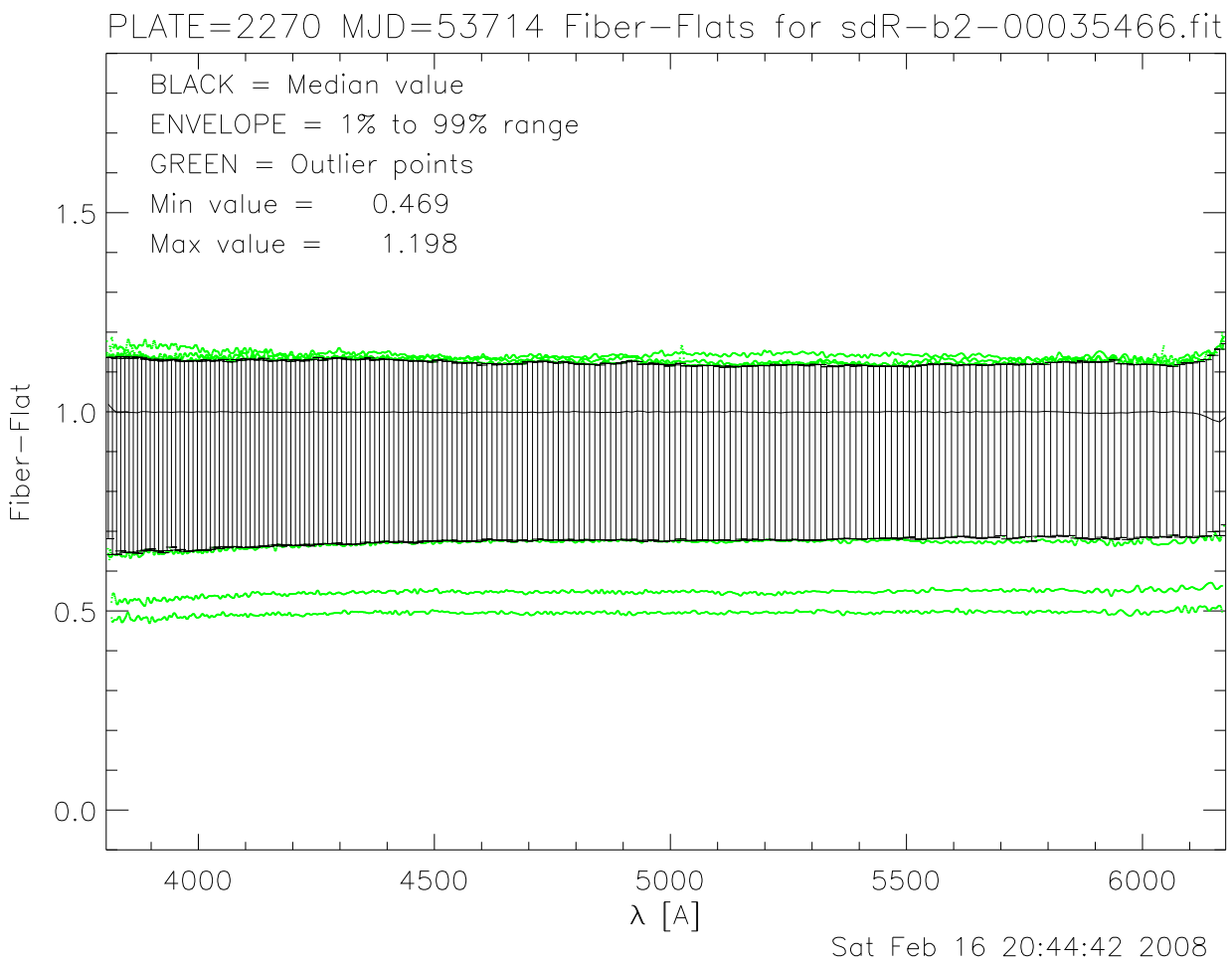

PLATE=2270 MJD=53714 flat extraction chi^2 for sdR−b2−00035460.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
0
500
1000
1500
2000
Row number

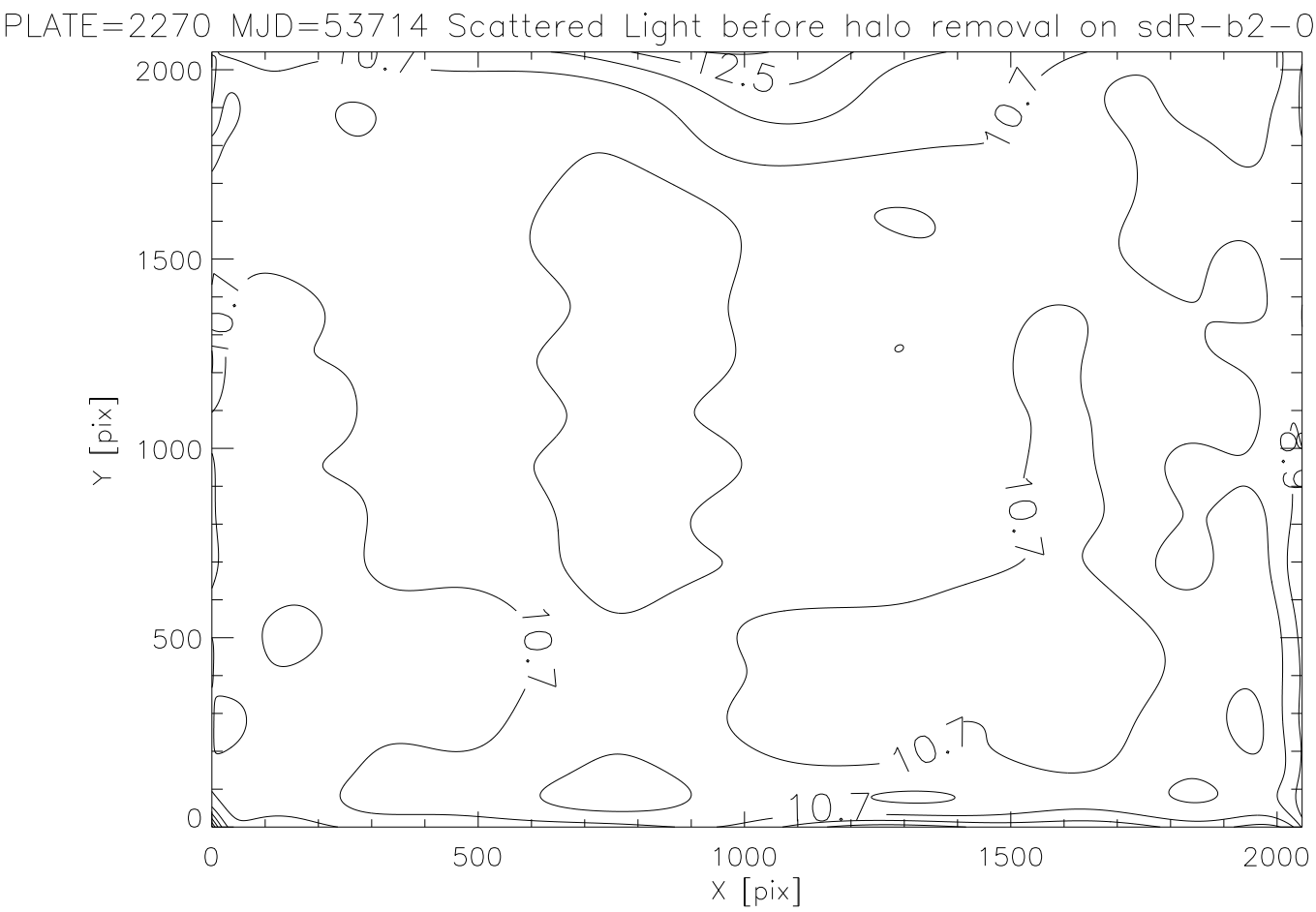

PLATE=2270 MJD=53714 Superflat sdR-b2-00035460.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

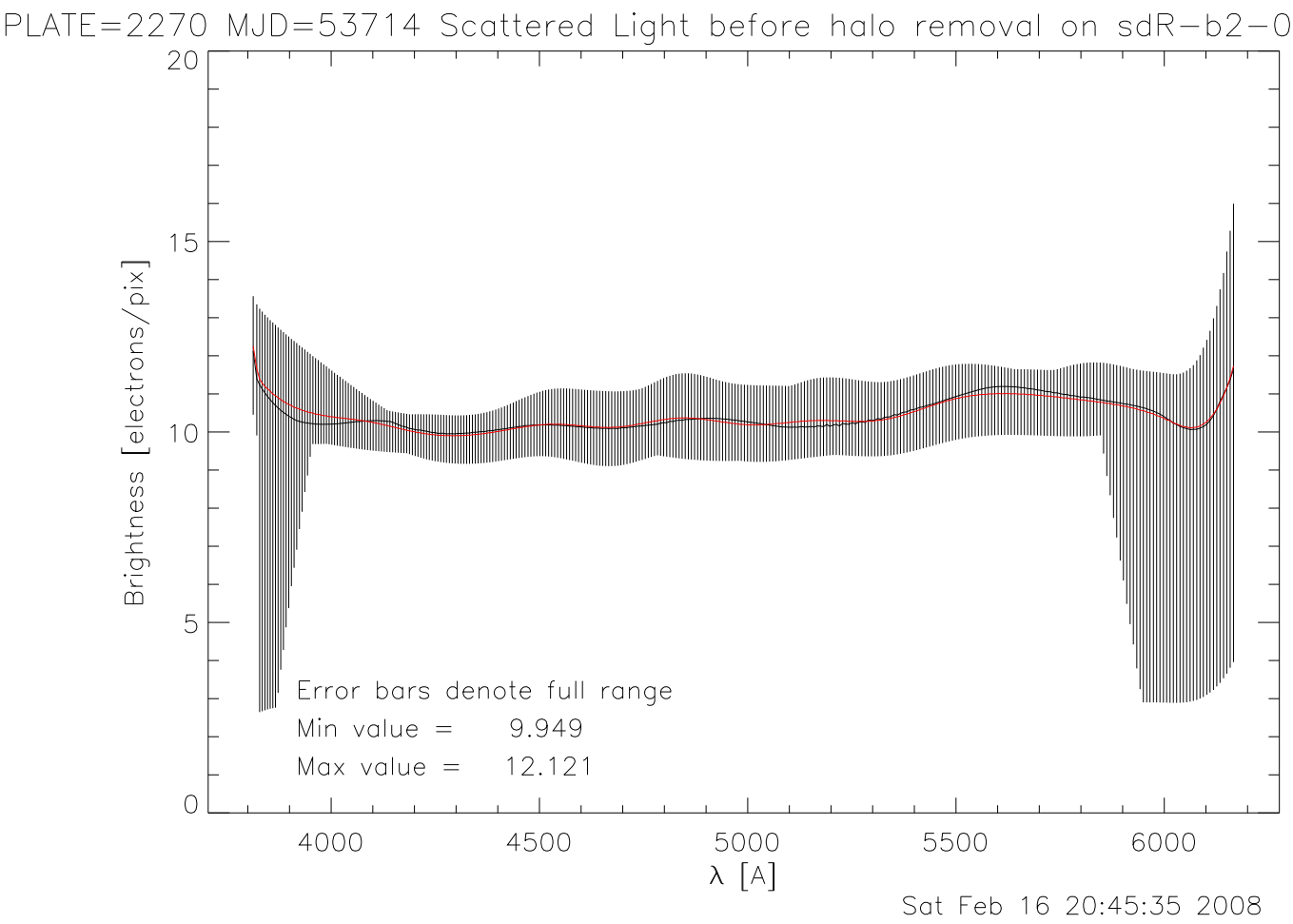

PLATE=2270 MJD=53714 flat extraction chi^2 for sdR−b2−00035466.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
6
0
500
1000
1500
2000

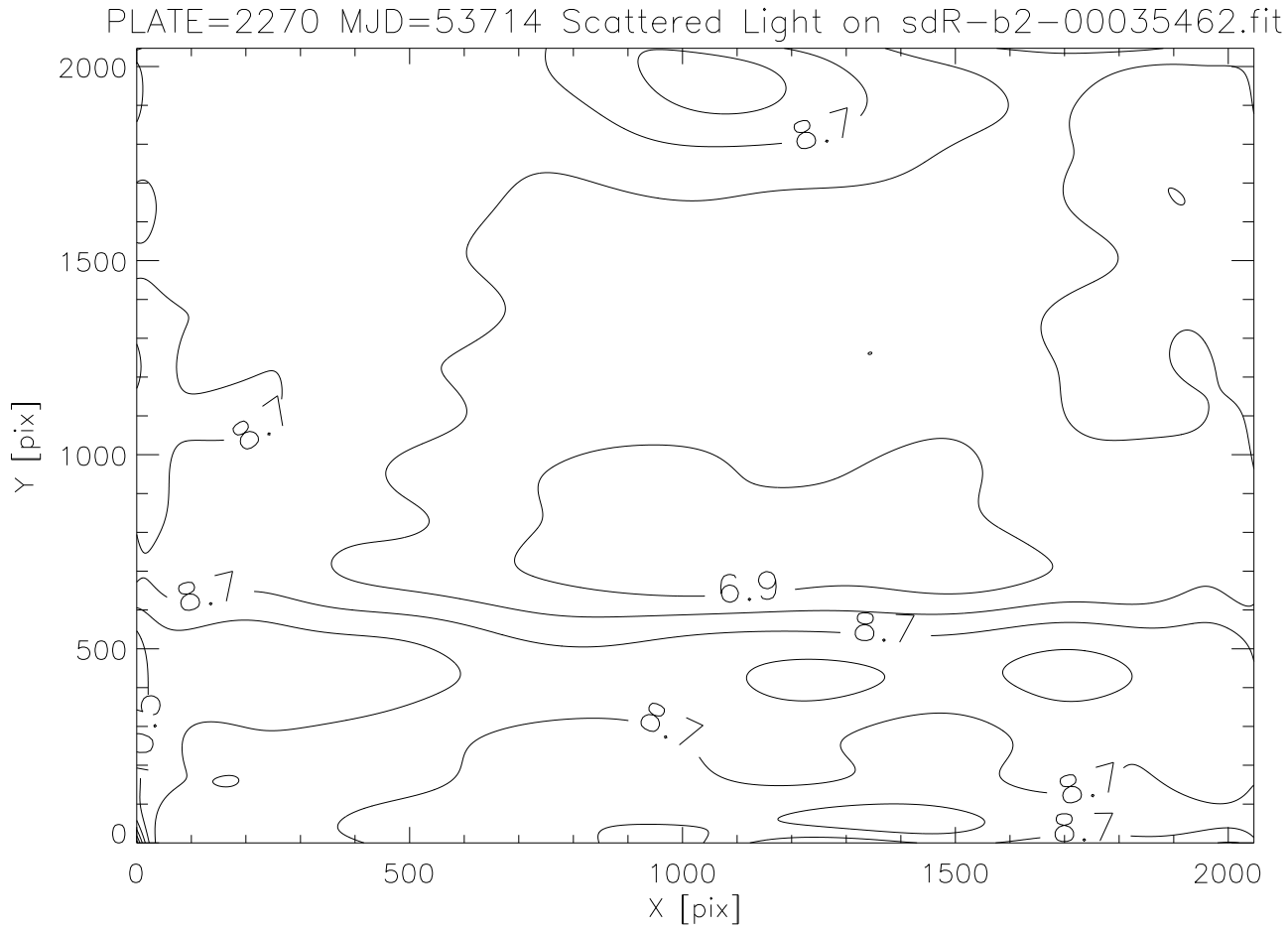

PLATE=2270 MJD=53714 Superflat sdR-b2-00035466.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

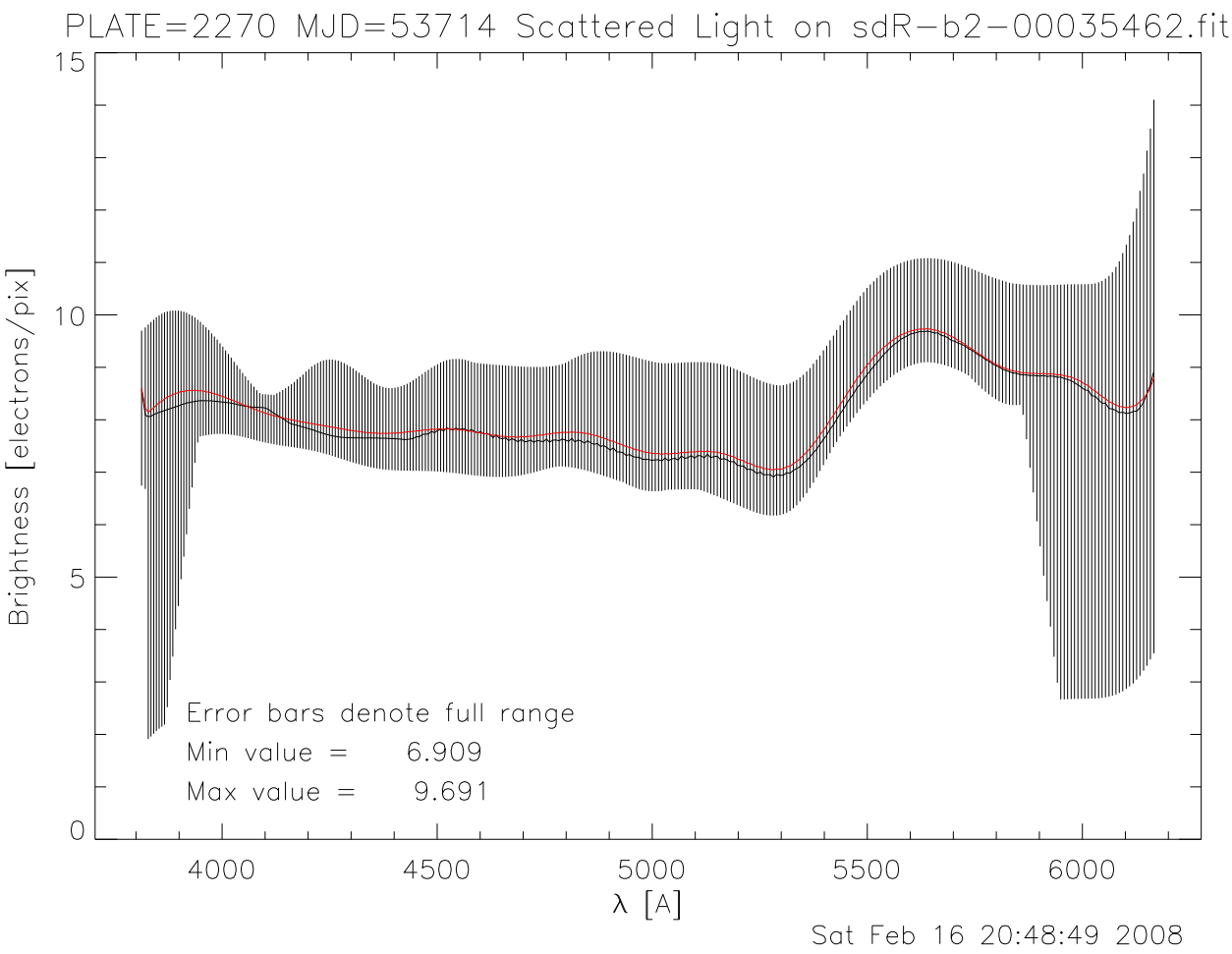

PLATE=2270 MJD=53714 Arcline Fit for sdR-b2-00035467.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 20:44:33 2008

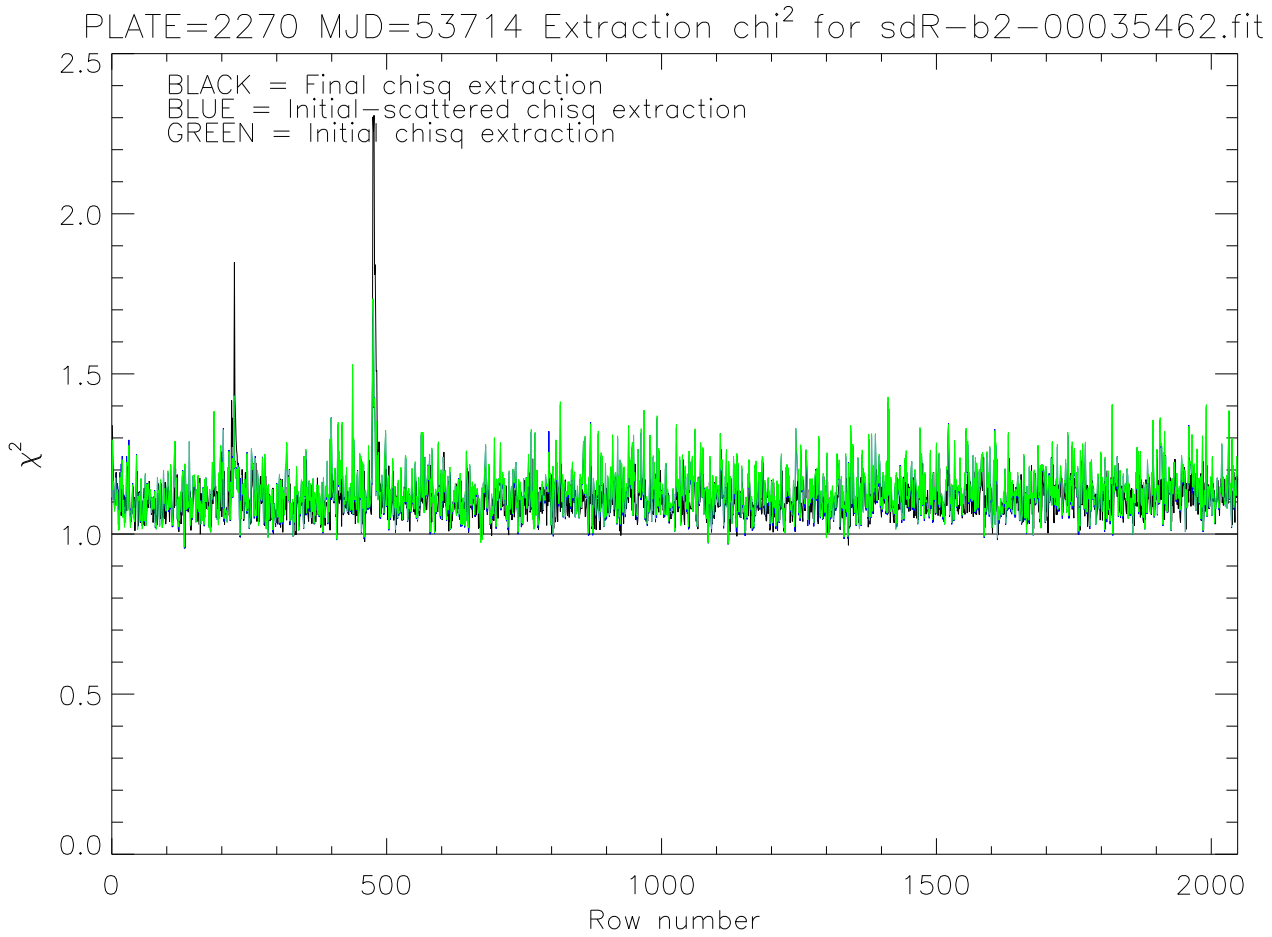

PLATE=2270 MJD=53714 Fiber−Flats for sdR−b2−00035466.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.469
Max value = 1.198
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 20:44:42 2008

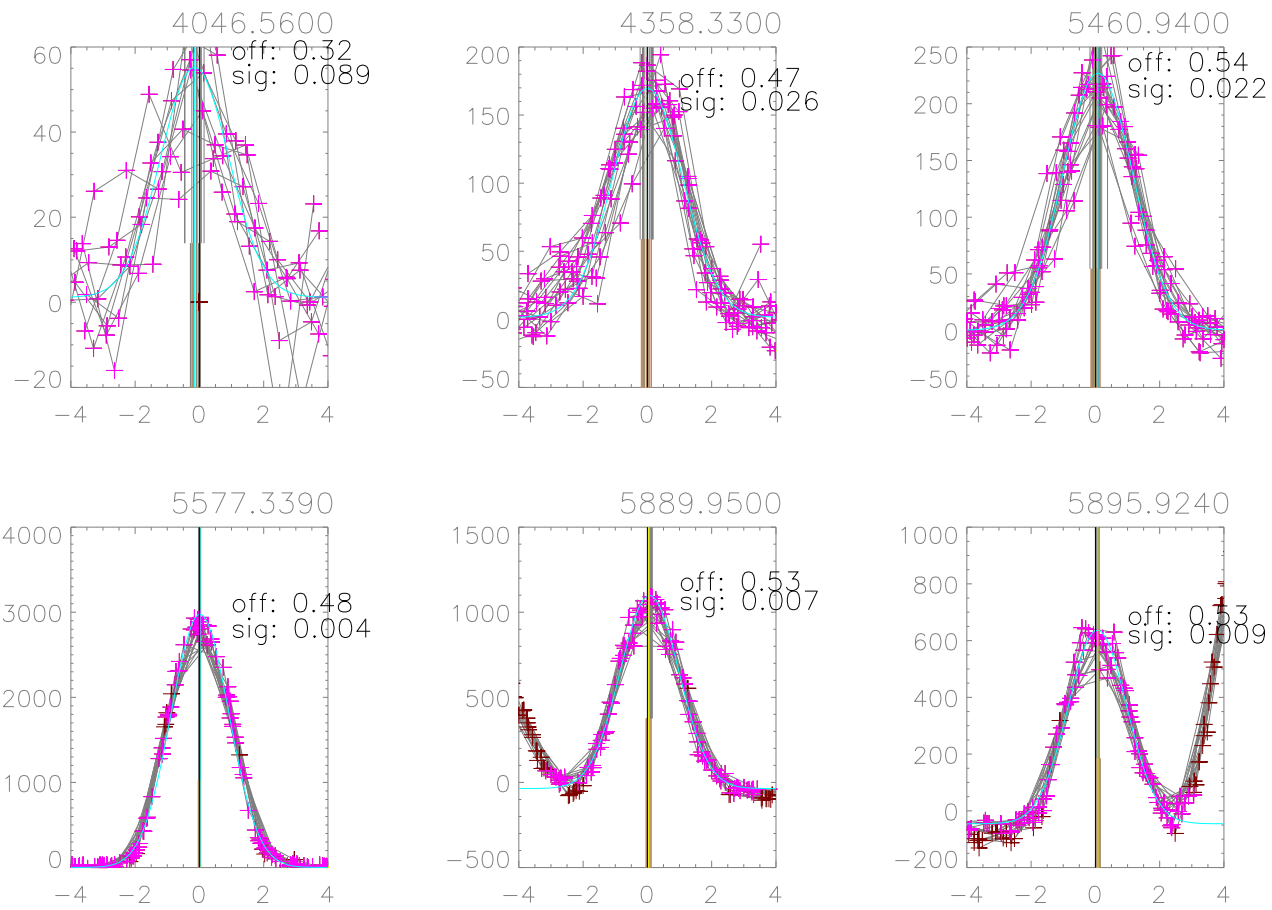

PLATE=2270 MJD=53714 Scattered Light before halo removal on sdR−b2−00035462.f
10.7
12.5
10.7
10.7
10.7
10.7
10.7
10.7
8.9
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

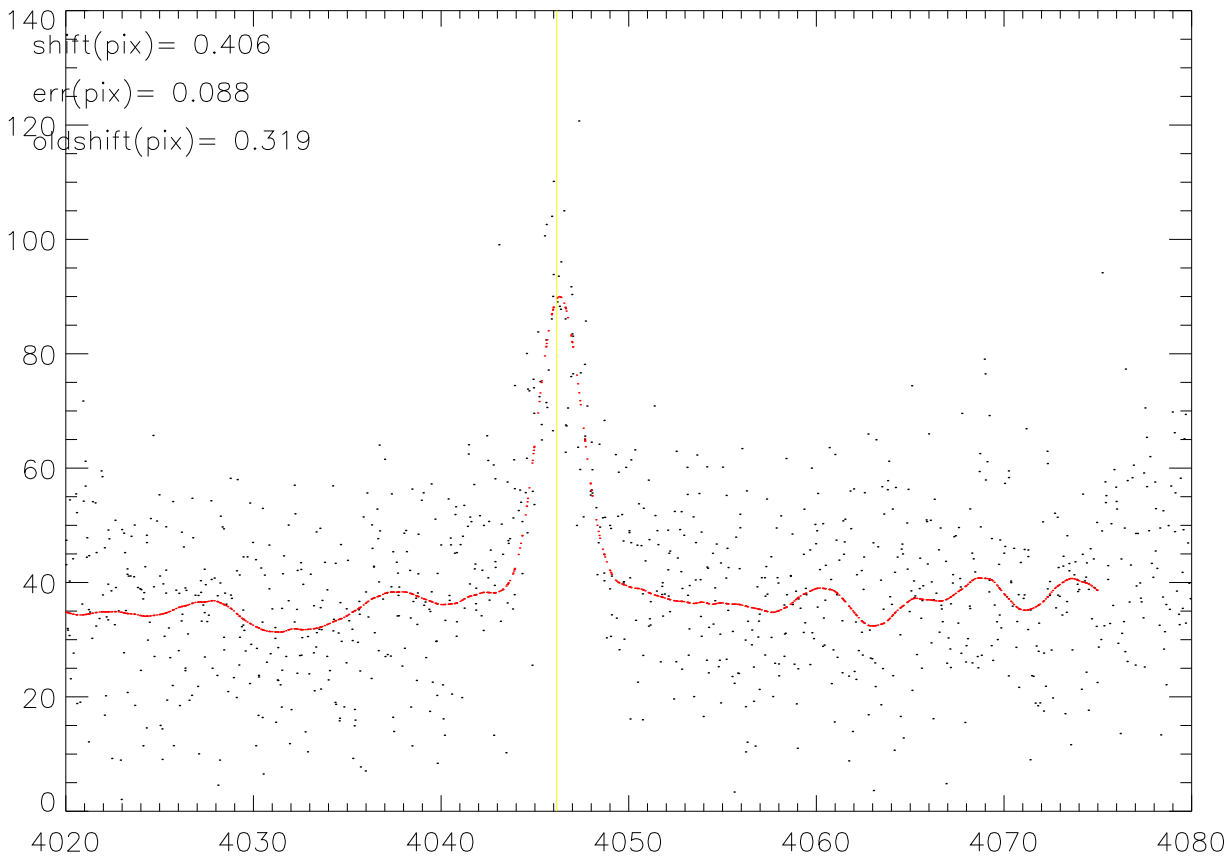

PLATE=2270 MJD=53714 Scattered Light before halo removal on sdR−b2−00035462.f
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 9.949
Max value = 12.121
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 20:45:35 2008

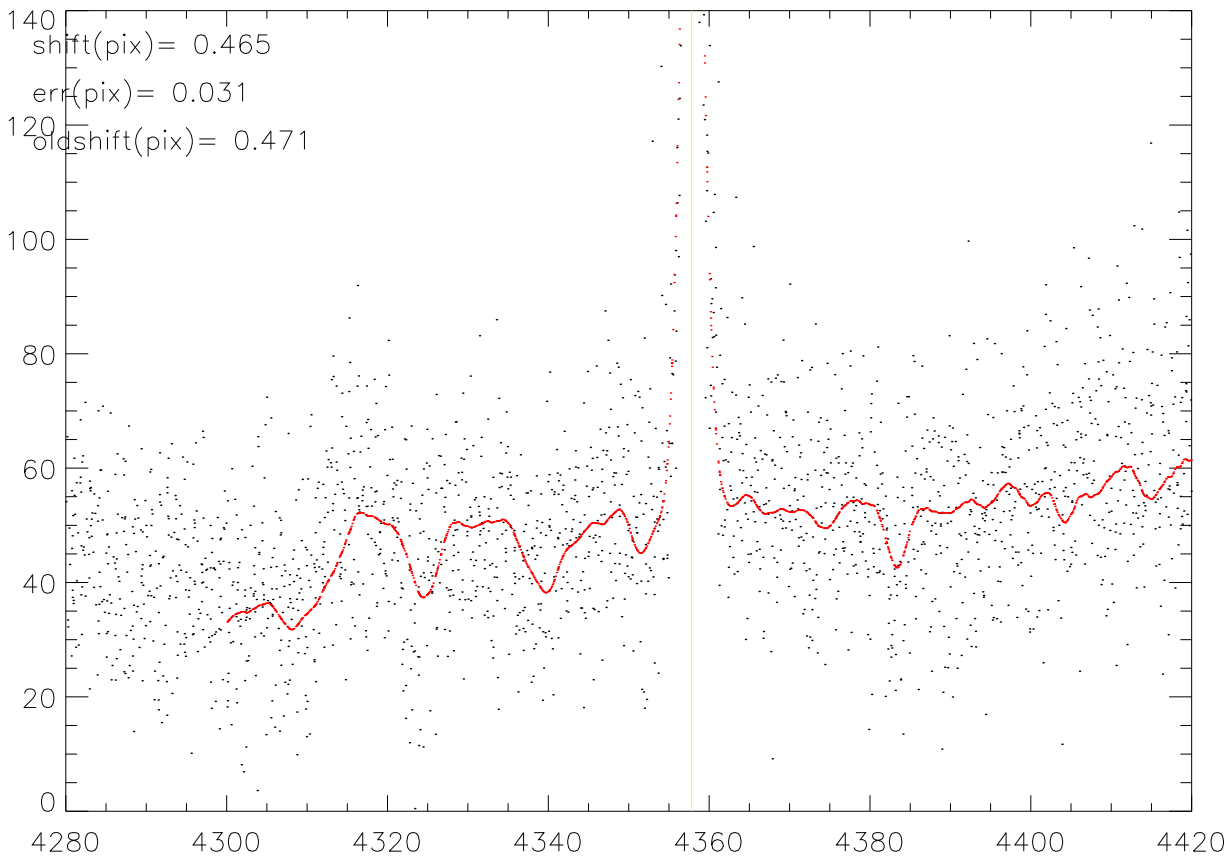

PLATE=2270 MJD=53714 Scattered Light on sdR-b2-00035462.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
8.7
8.7
6.9
8.7
8.7
8.7
8.7

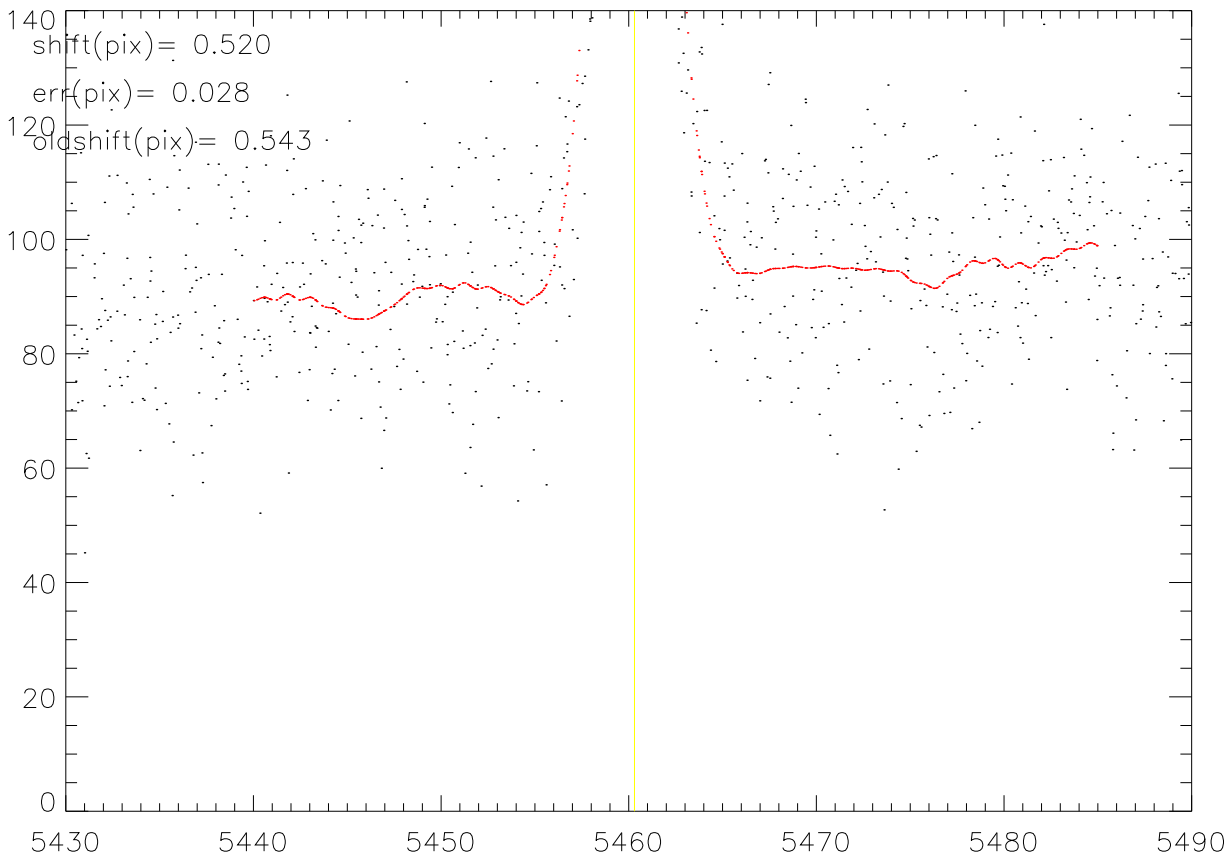

PLATE=2270 MJD=53714 Scattered Light on sdR-b2-00035462.fit
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 6.909
Max value = 9.691
Sat Feb 16 20:48:49 2008

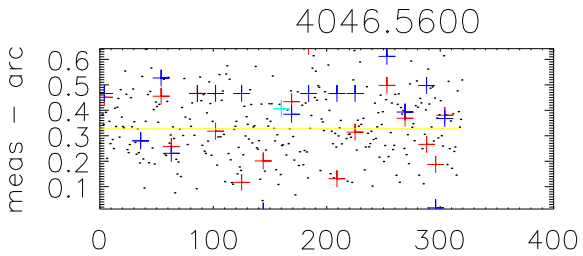

PLATE=2270 MJD=53714 Extraction chi^2 for sdR-b2-00035462.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

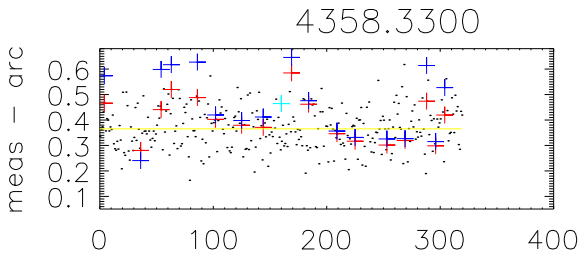

4046.5600
off: 0.32
sig: 0.089
4358.3300
off: 0.47
sig: 0.026
5460.9400
off: 0.54
sig: 0.022
5577.3390
off: 0.48
sig: 0.004
5889.9500
off: 0.53
sig: 0.007
5895.9240
off: 0.53
sig: 0.009

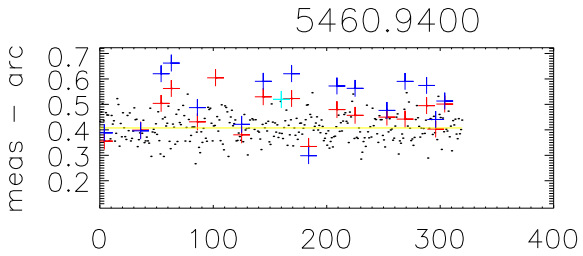

shift(pix)= 0.406
err(pix)= 0.088
oldshift(pix)= 0.319
140
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

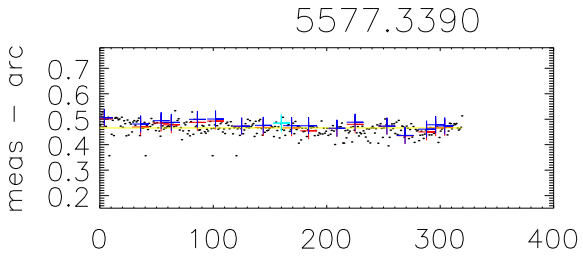

shift(pix)= 0.465
err(pix)= 0.031
oldshift(pix)= 0.471
140
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

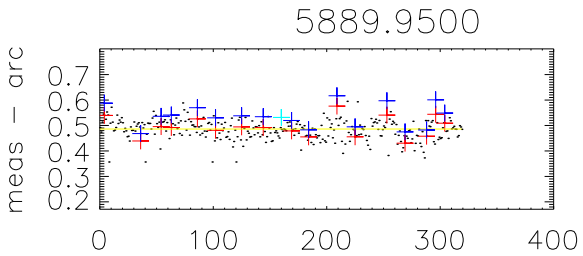

shift(pix)= 0.520
err(pix)= 0.028
oldshift(pix)= 0.543
140
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

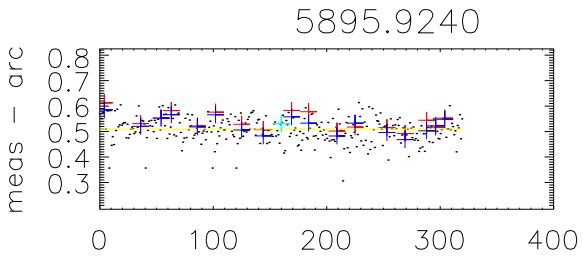

4046.5600
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

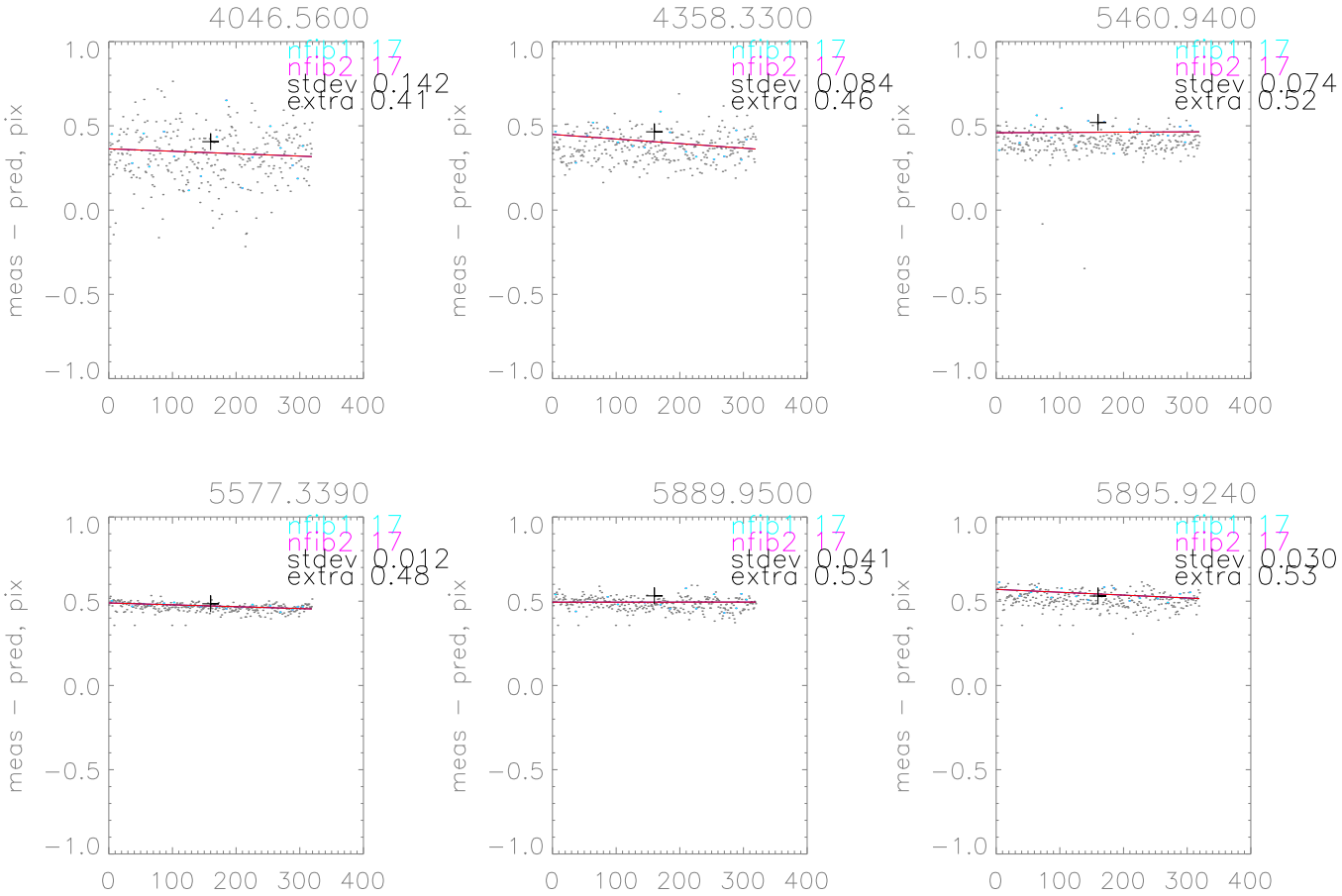

4358.3300
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

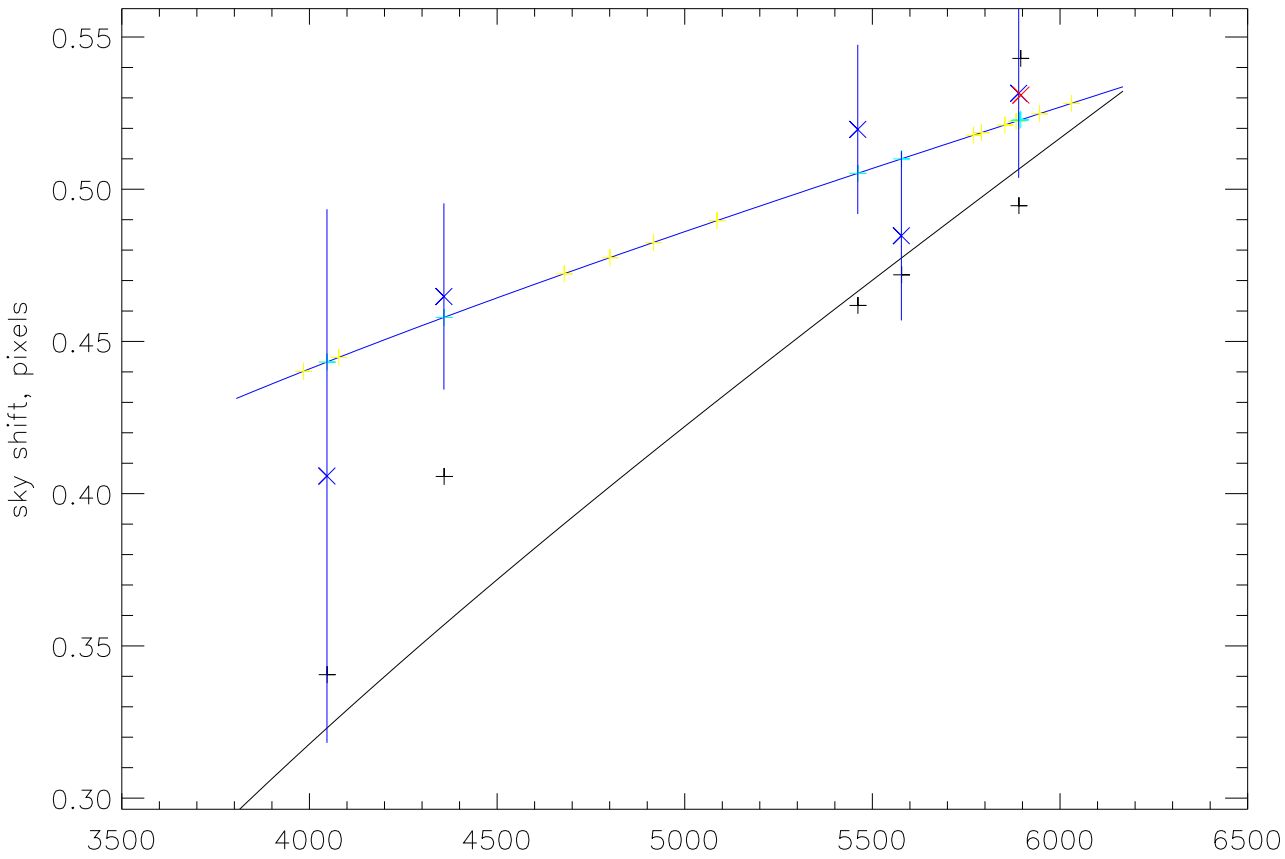

5460.9400
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

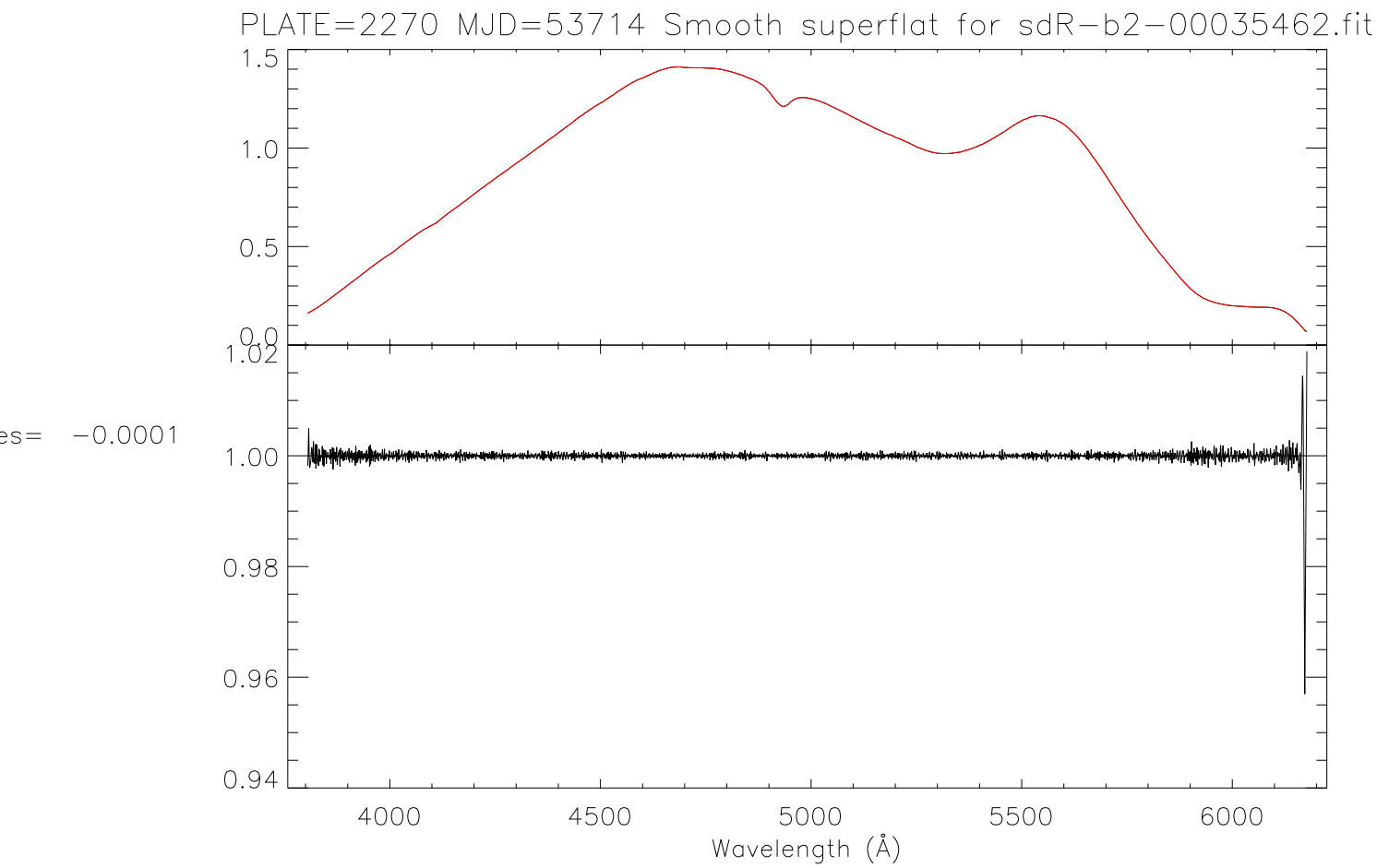

5577.3390
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400


5889.9500
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

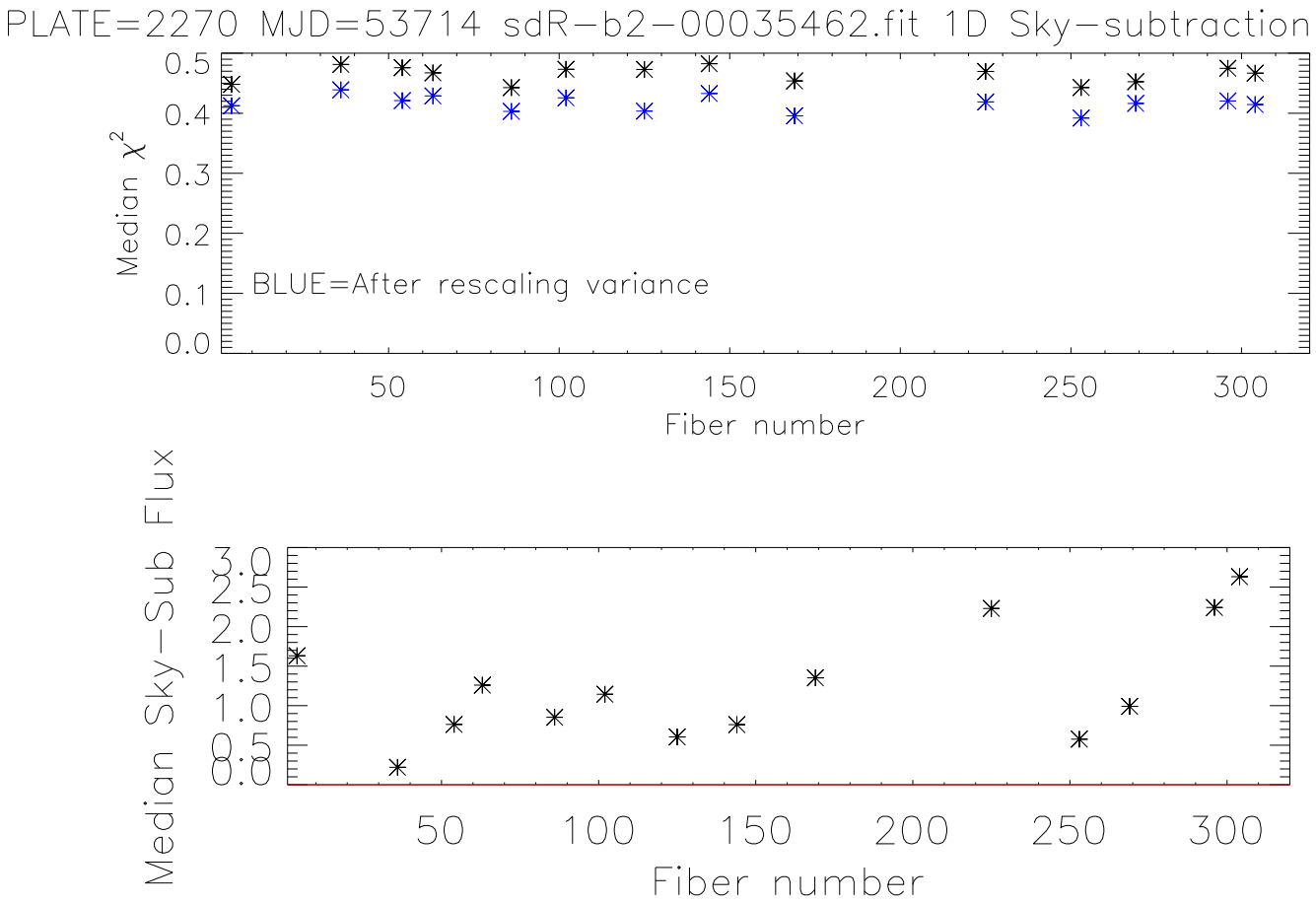

5895.9240
meas − arc
0.8
0.7
0.6
0.5
0.4
0.3
0
100
200
300
400

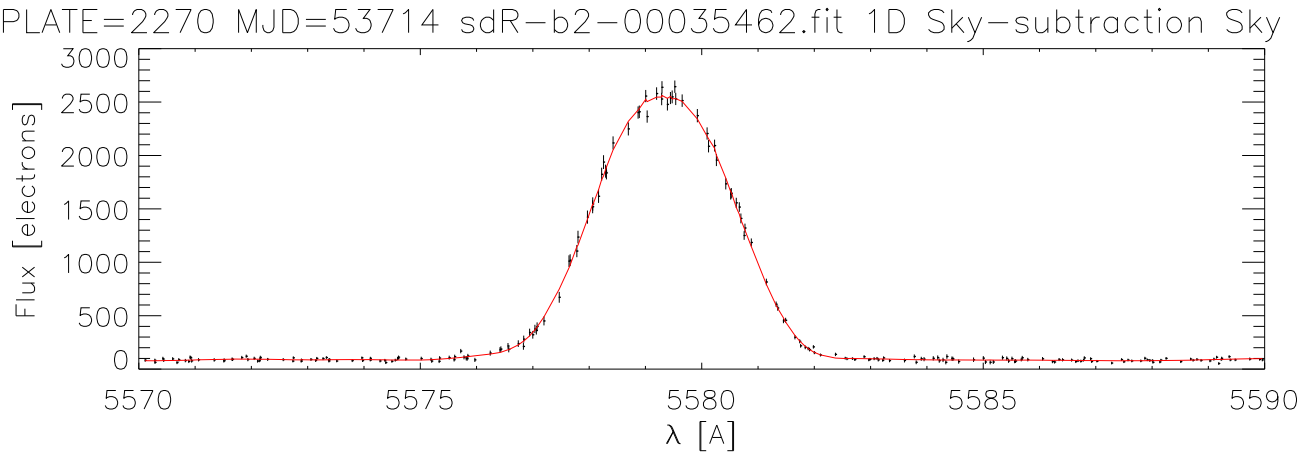

4046.5600
nfib1 17
nfib2 17
stdev 0.142
extra 0.41
4358.3300
nfib1 17
nfib2 17
stdev 0.084
extra 0.46
5460.9400
nfib1 17
nfib2 17
stdev 0.074
extra 0.52
5577.3390
nfib1 17
nfib2 17
stdev 0.012
extra 0.48
5889.9500
nfib1 17
nfib2 17
stdev 0.041
extra 0.53
5895.9240
nfib1 17
nfib2 17
stdev 0.030
extra 0.53
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

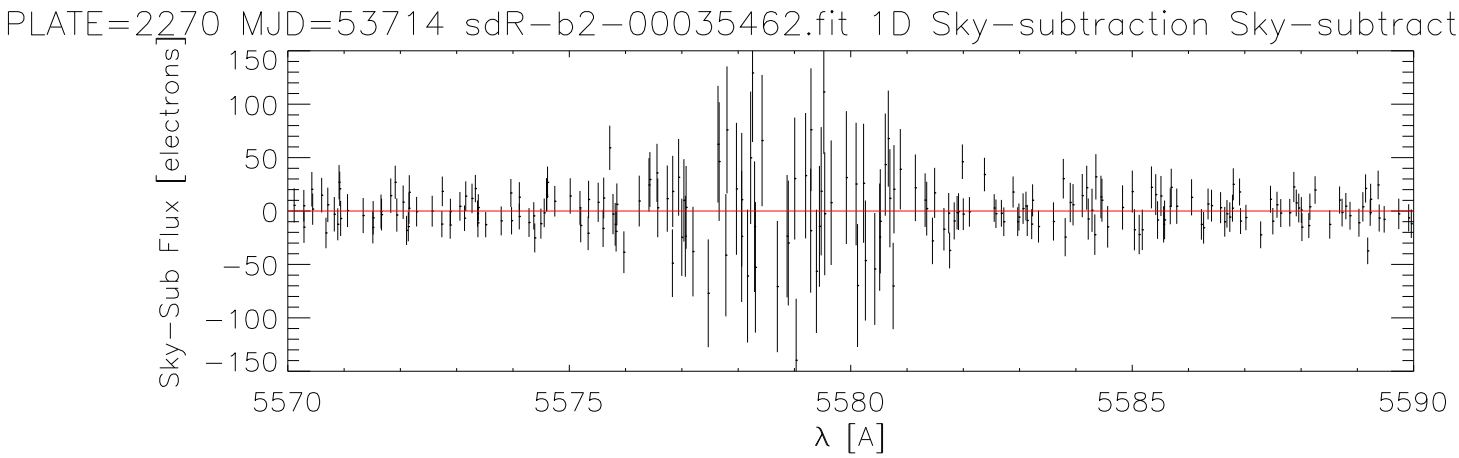

0.55
0.50
0.45
0.40
0.35
0.30
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

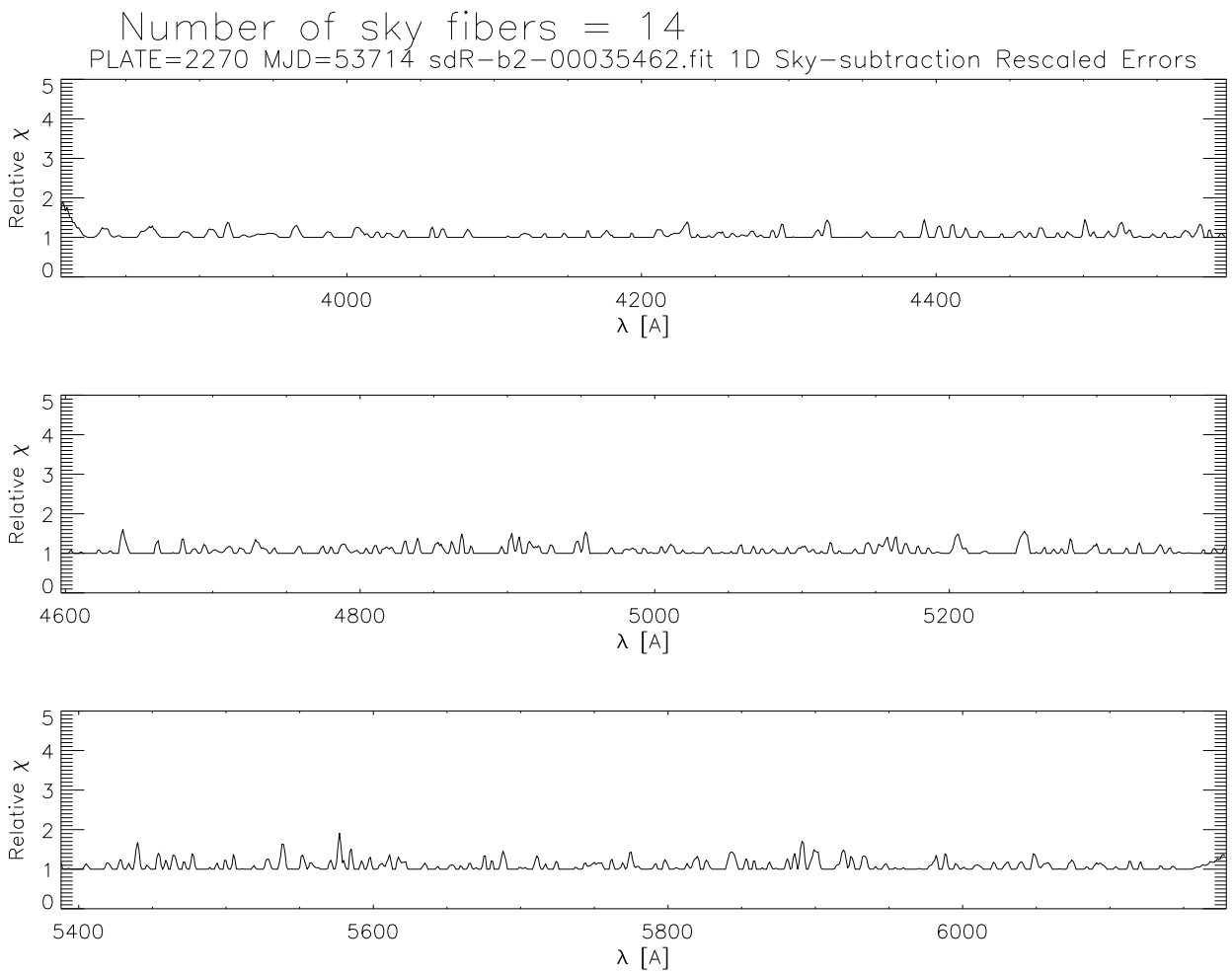

PLATE=2270 MJD=53714 Smooth superflat for sdR-b2-00035462.fit
1.5
1.0
0.5
0.0
1.02
1.00
0.98
0.96
0.94
4000
4500
5000
5500
6000
Wavelength (Å)

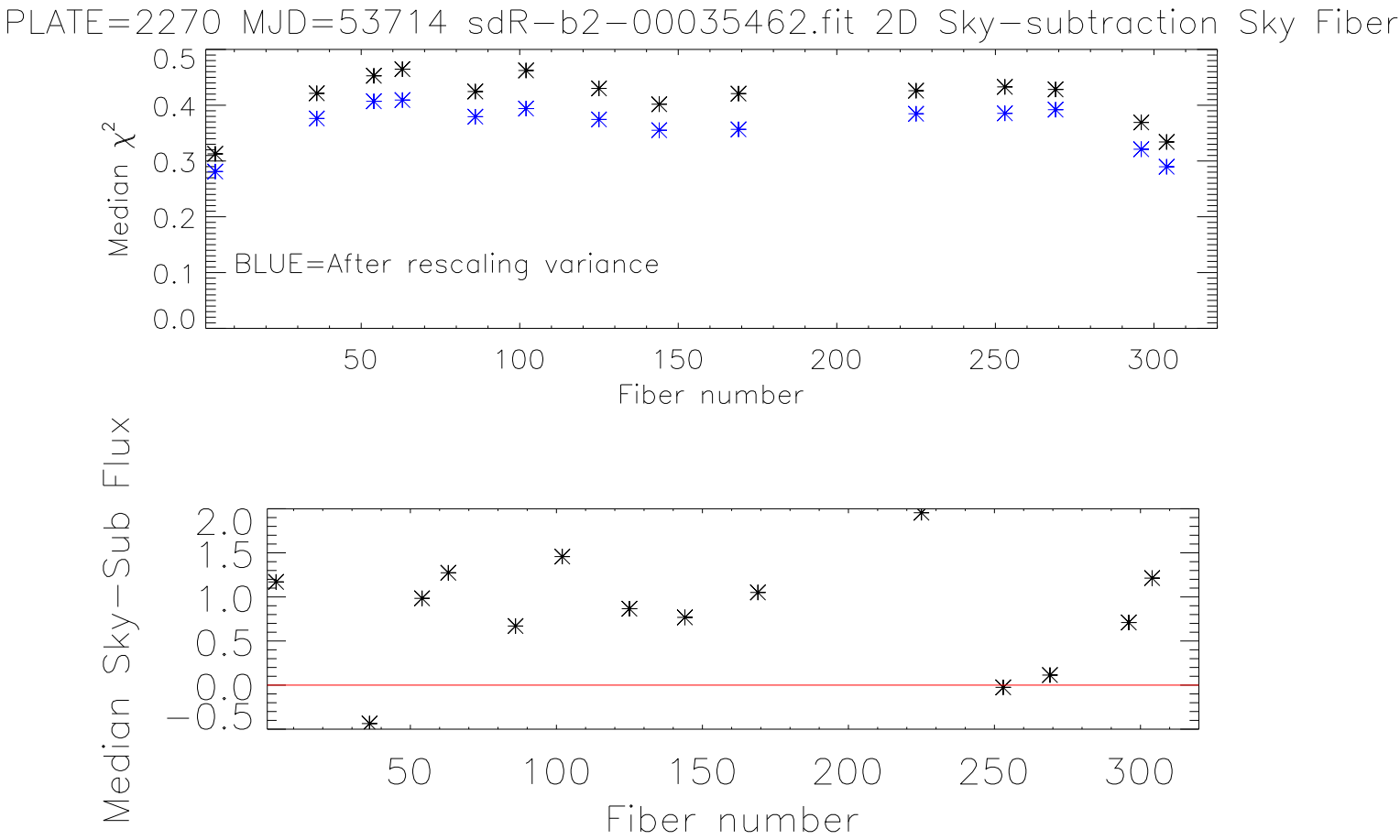
es= −0.0001

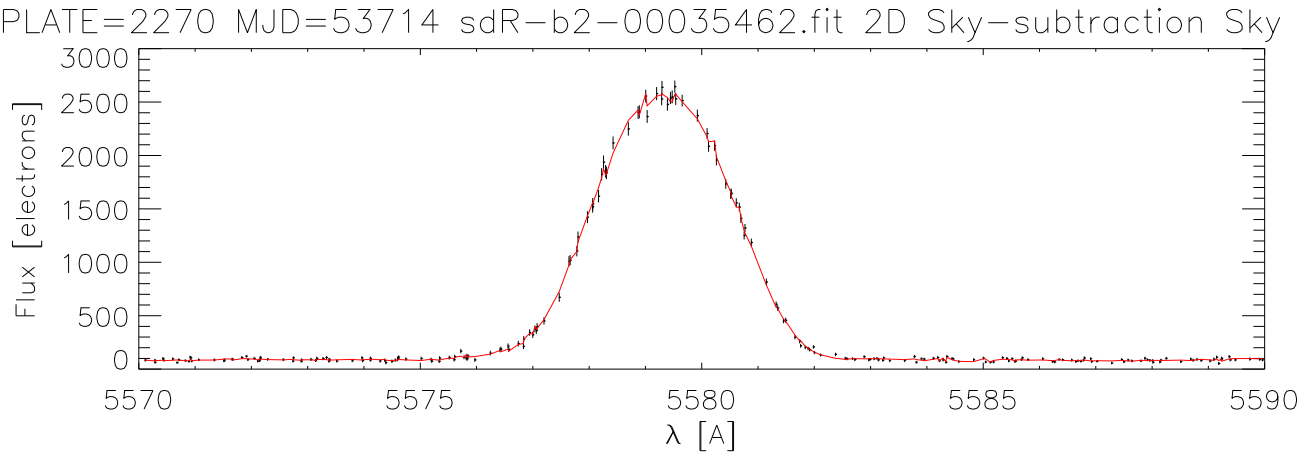

PLATE=2270 MJD=53714 sdR-b2-00035462.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

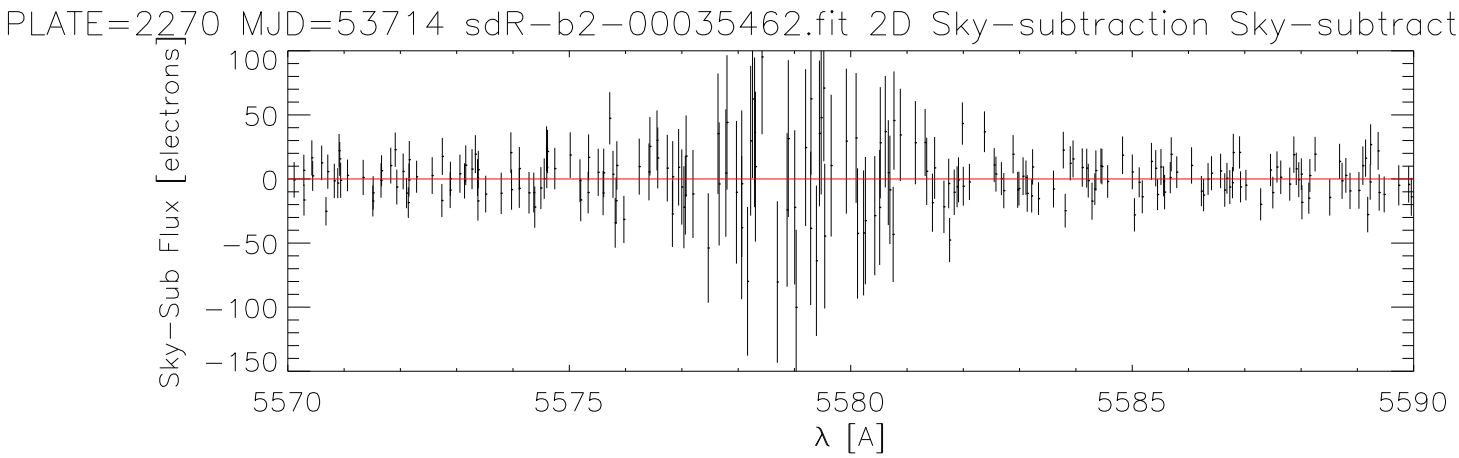

PLATE=2270 MJD=53714 sdR-b2-00035462.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

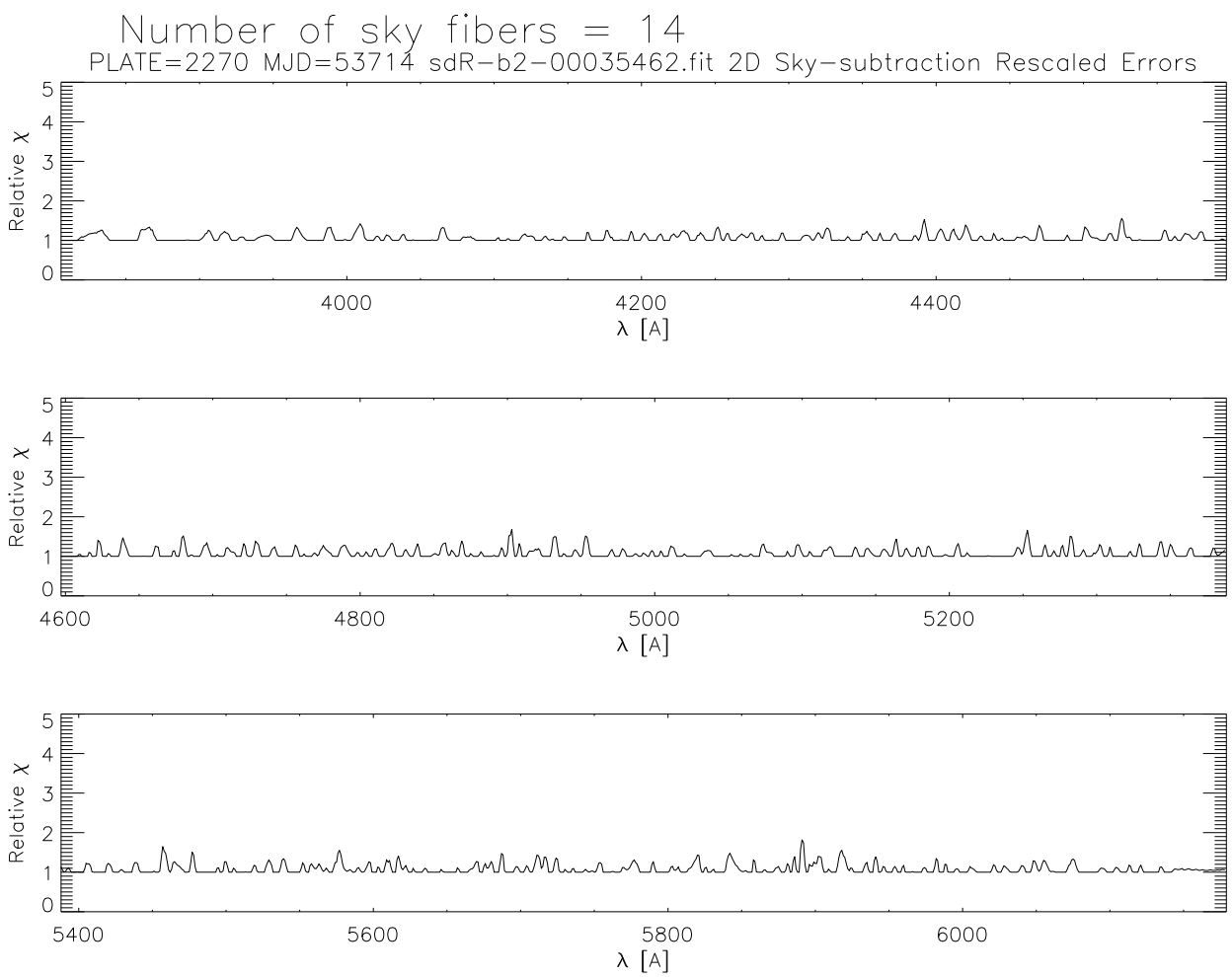

PLATE=2270 MJD=53714 sdR-b2-00035462.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
5570
5575
5580
5585
5590
λ [A]

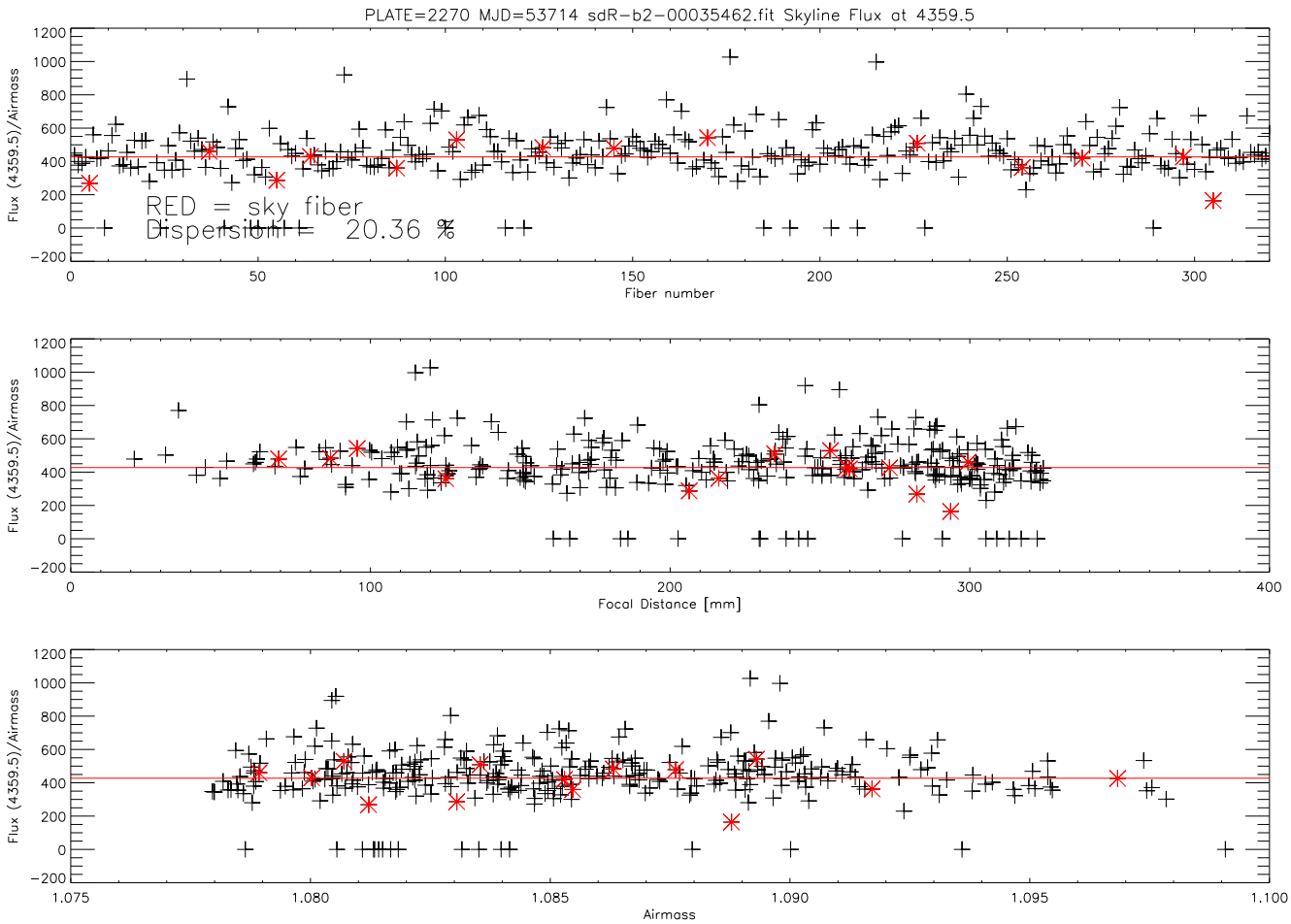

Number of sky fibers = 14
PLATE=2270 MJD=53714 sdR-b2-00035462.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

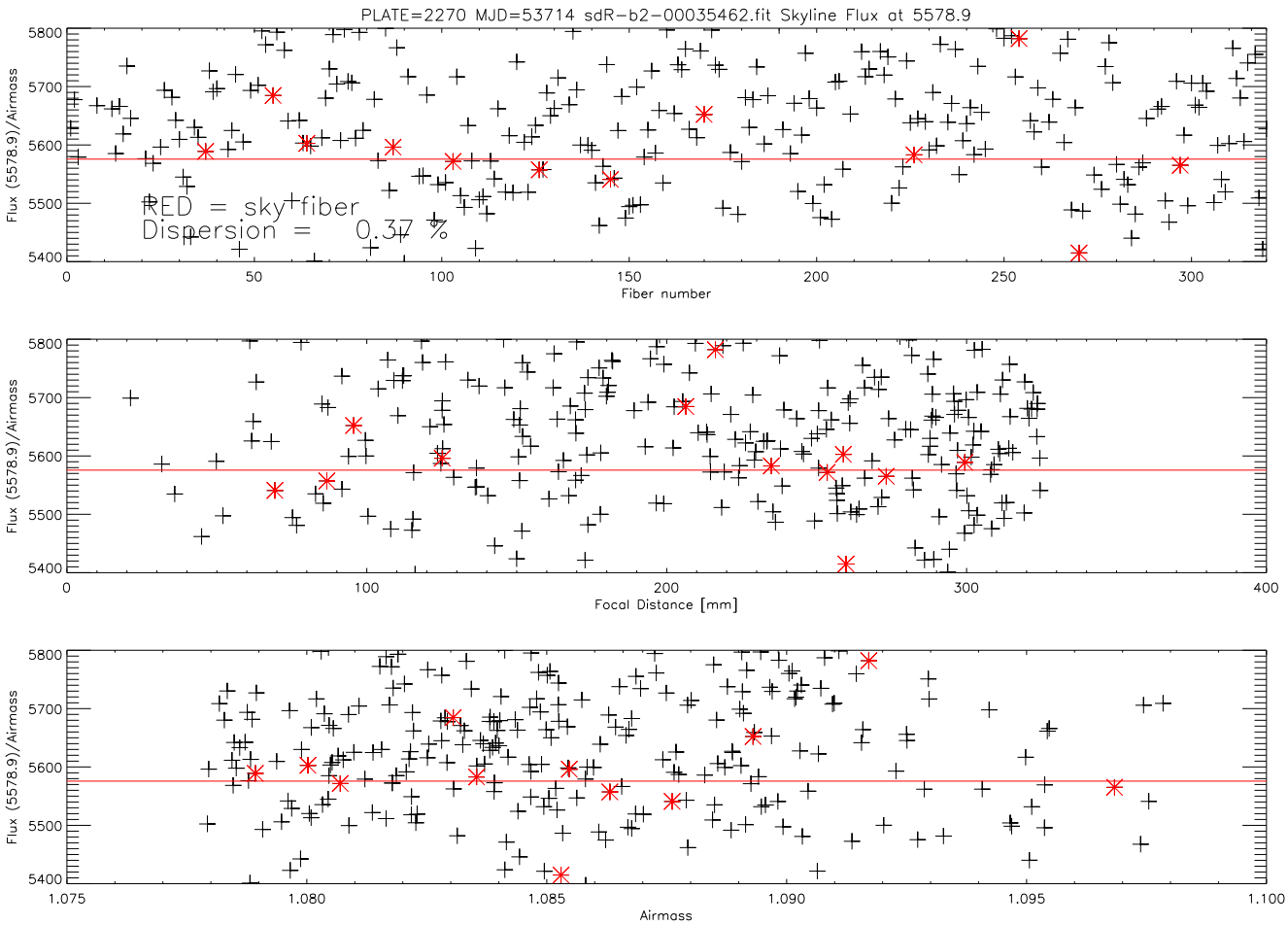

PLATE=2270 MJD=53714 sdR-b2-00035462.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

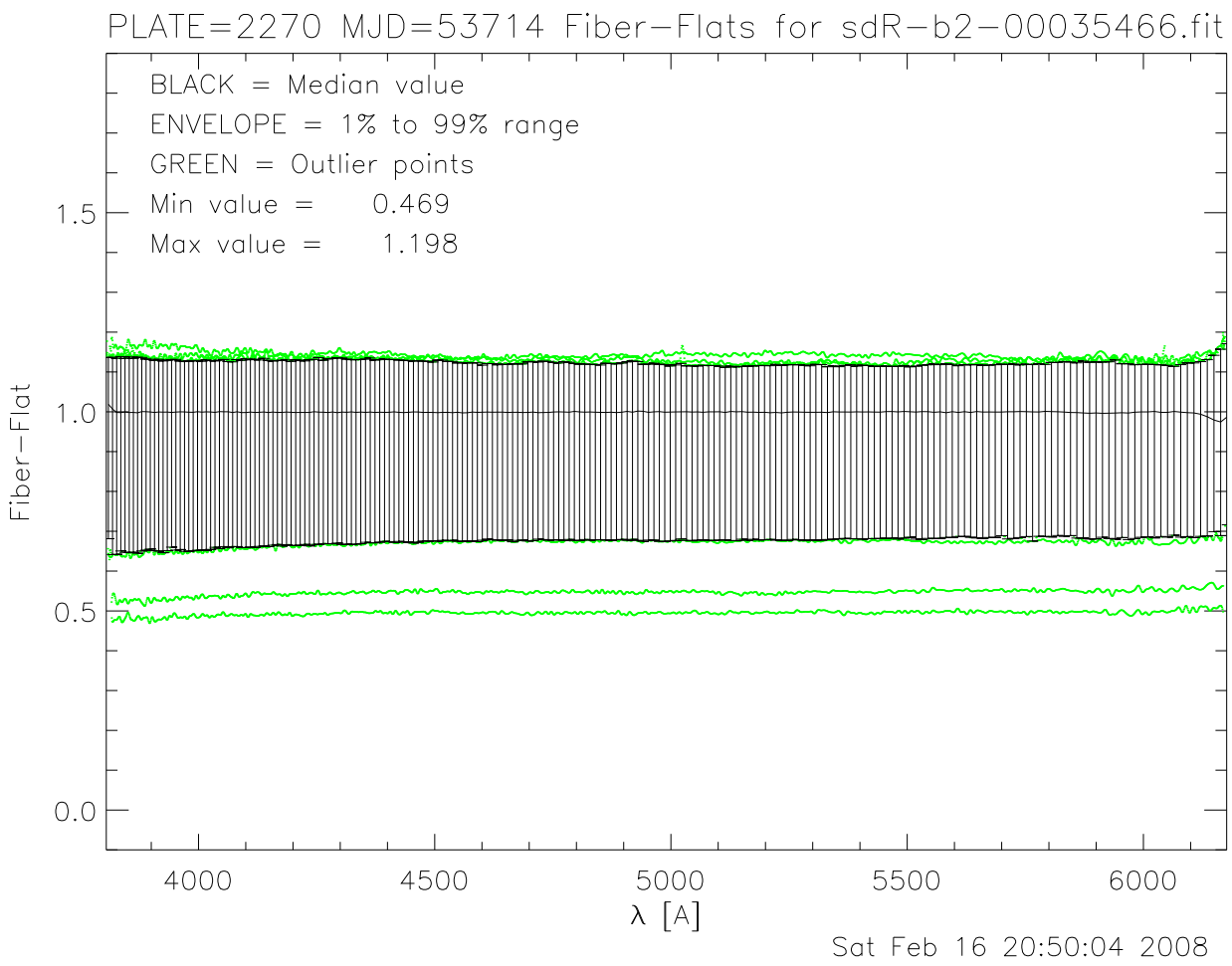

PLATE=2270 MJD=53714 sdR-b2-00035462.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

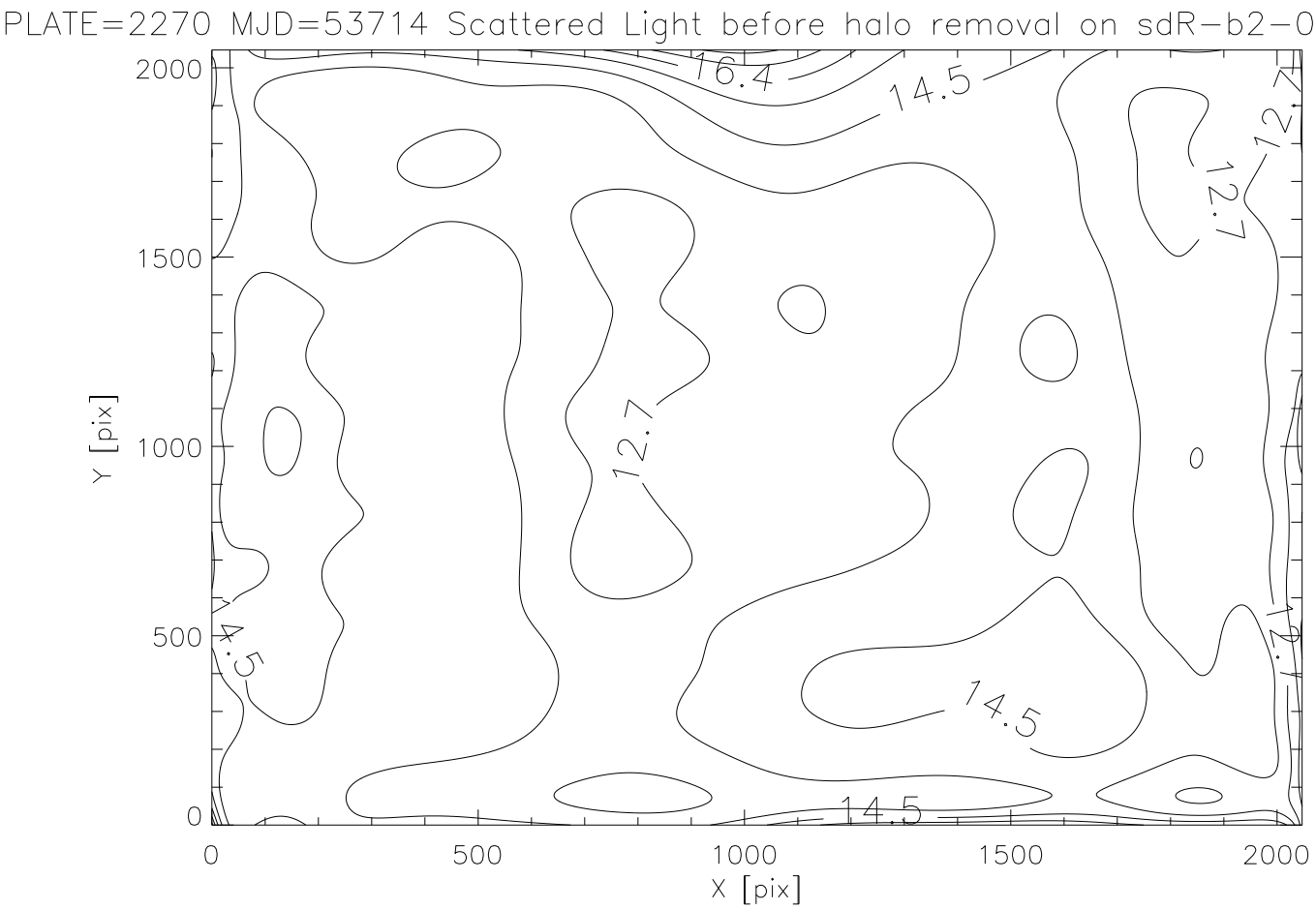

PLATE=2270 MJD=53714 sdR-b2-00035462.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
−50
−100
−150
5570
5575
5580
5585
5590
λ [A]

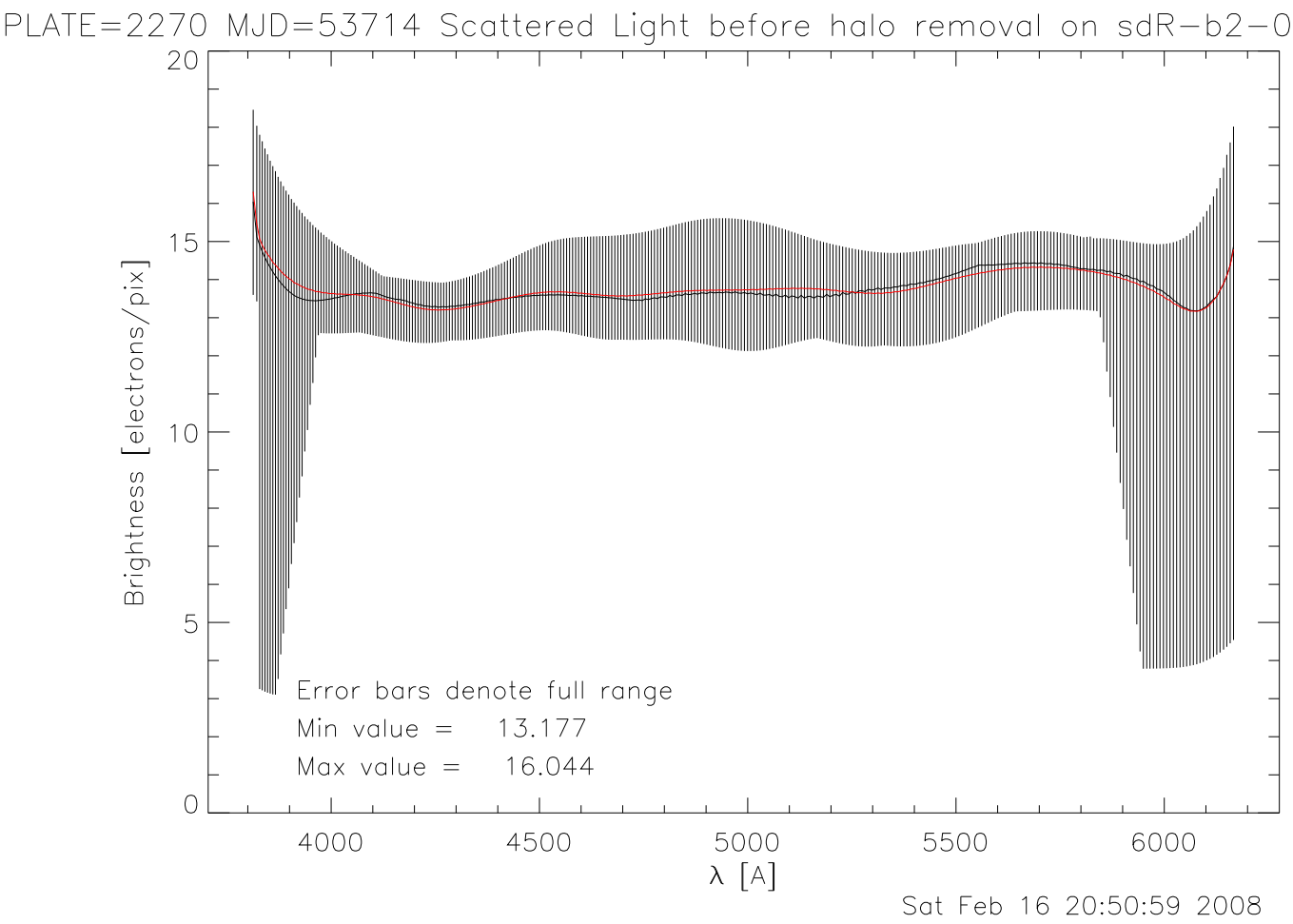

Number of sky fibers = 14
PLATE=2270 MJD=53714 sdR-b2-00035462.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

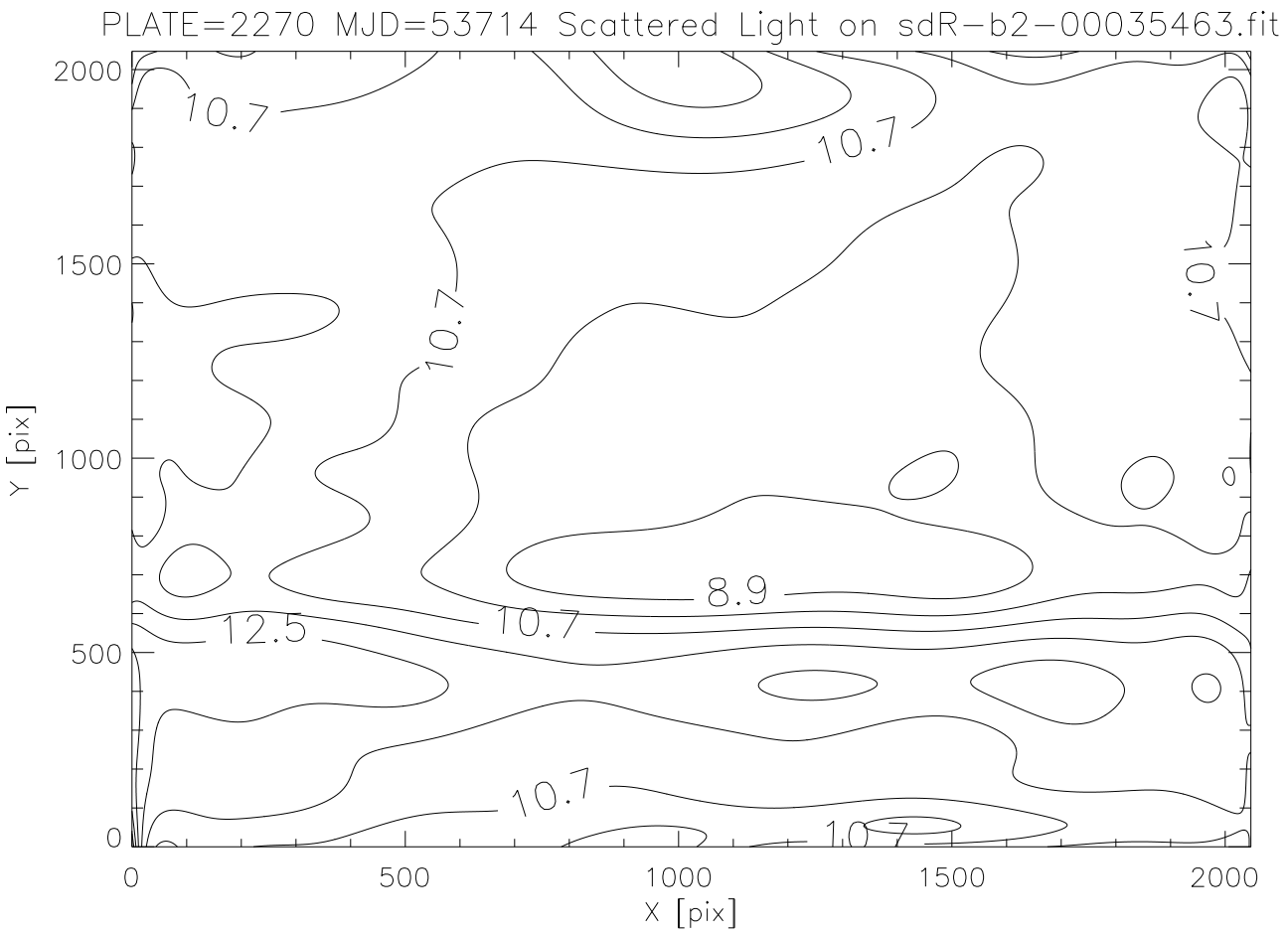

PLATE=2270 MJD=53714 sdR-b2-00035462.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 20.36 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

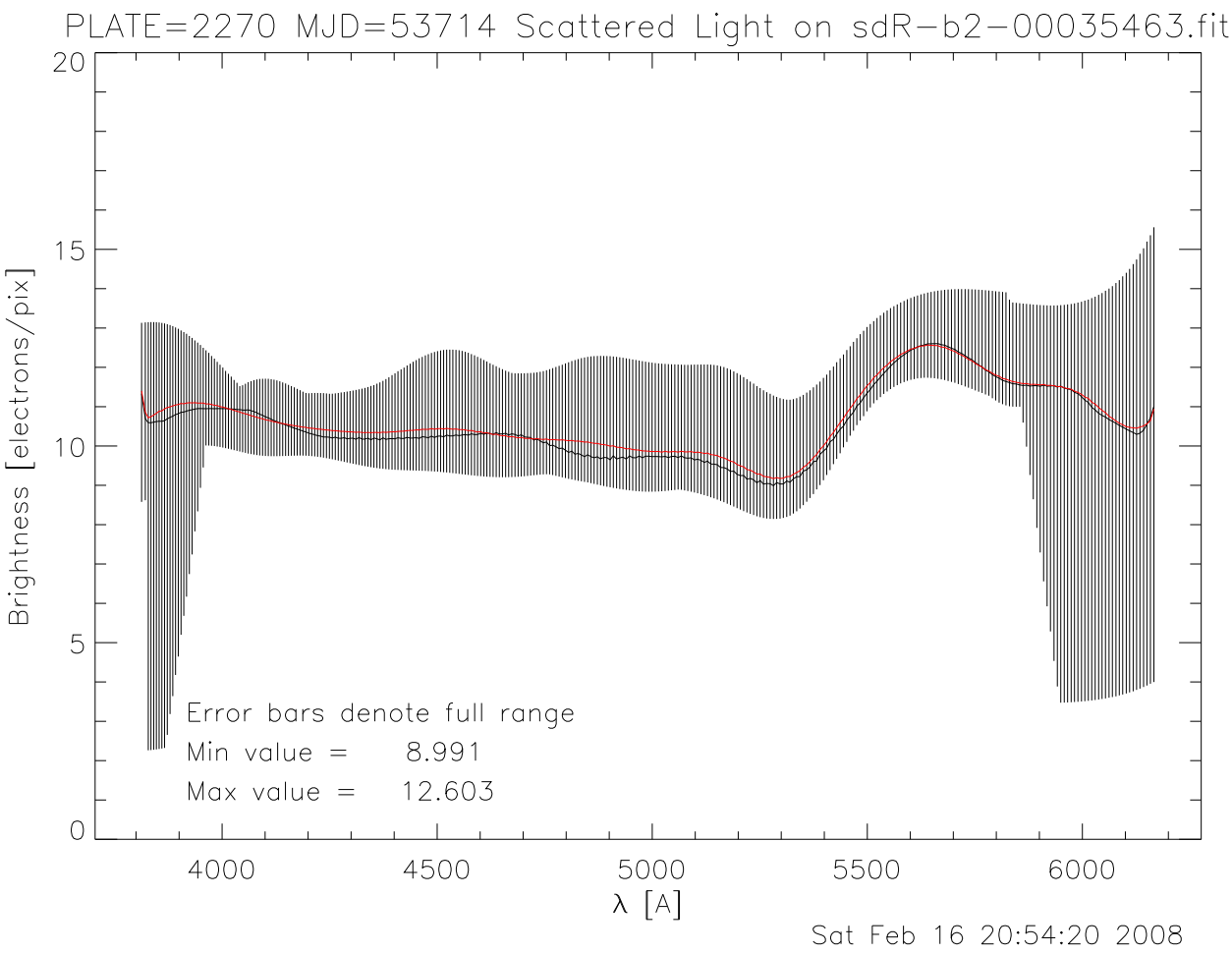

PLATE=2270 MJD=53714 sdR-b2-00035462.fit Skyline Flux at 5578.9
RED = sky fiber
Dispersion = 0.37 %
Flux (5578.9)/Airmass
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

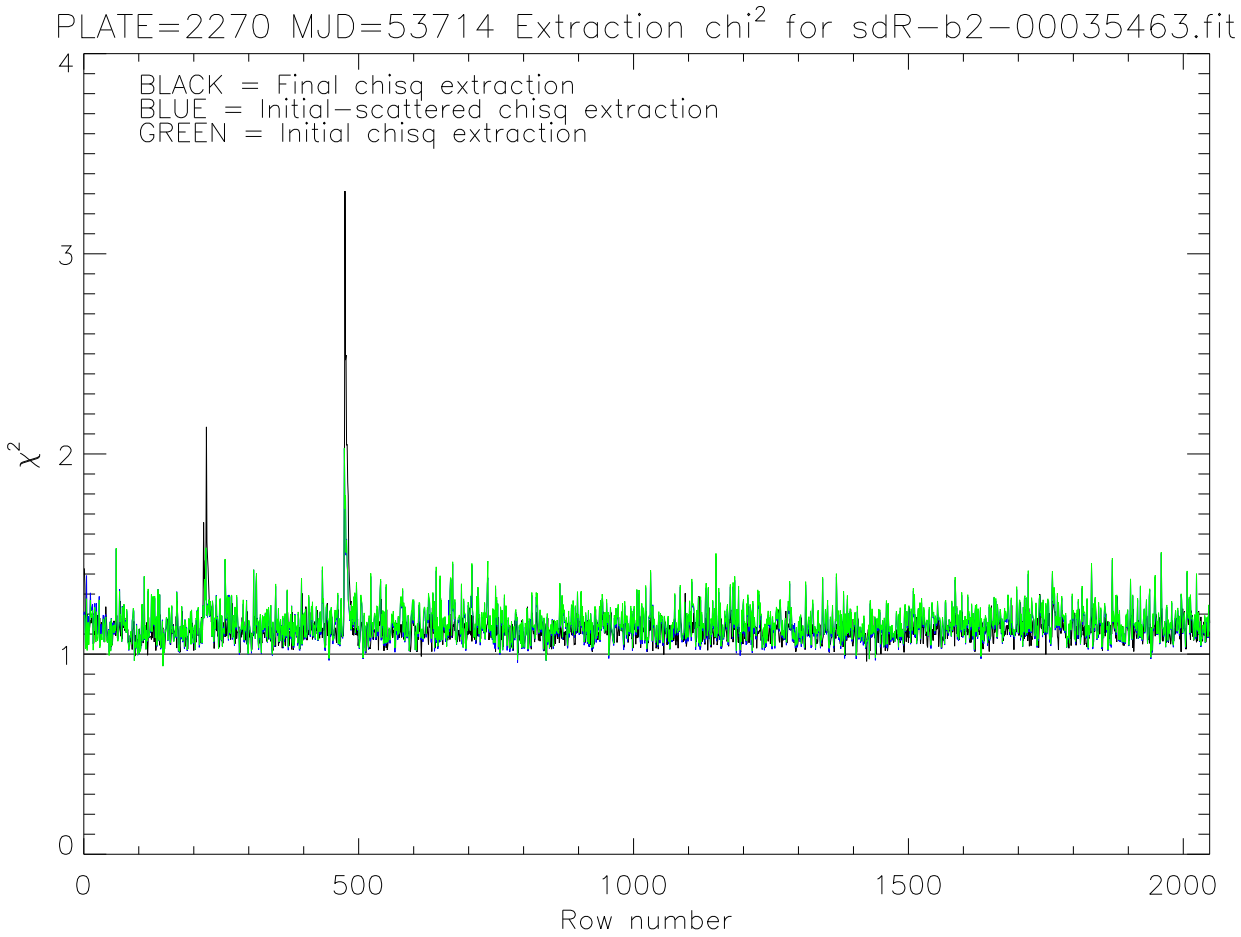

PLATE=2270 MJD=53714 Fiber−Flats for sdR−b2−00035466.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.469
Max value = 1.198
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 20:50:04 2008

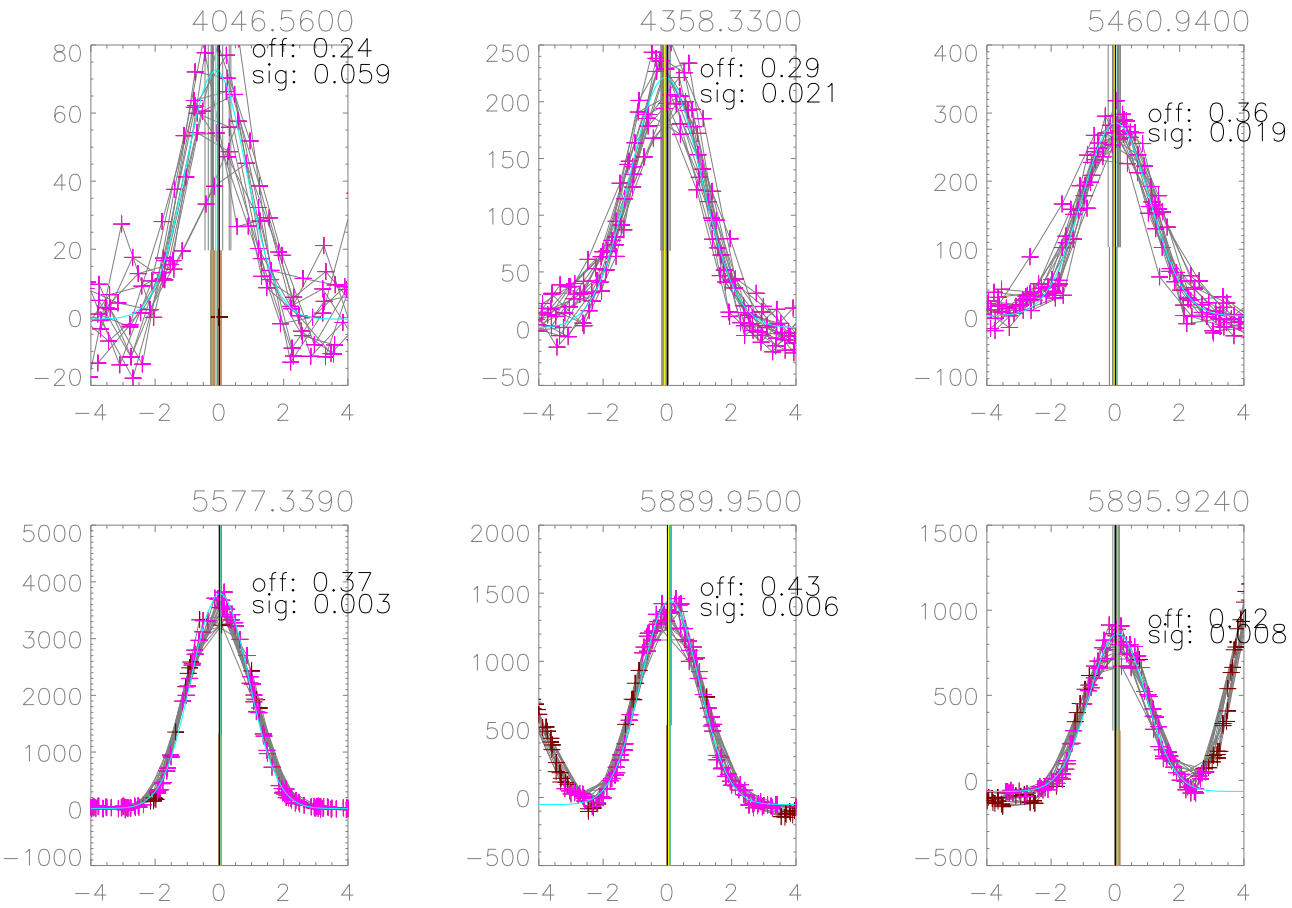

PLATE=2270 MJD=53714 Scattered Light before halo removal on sdR-b2-00035463.f
16.4
14.5
12.7
12.7
12.7
0
14.5
14.5
14.5
12.7
Y [pix]
X [pix]
0
500
1000
1500
2000

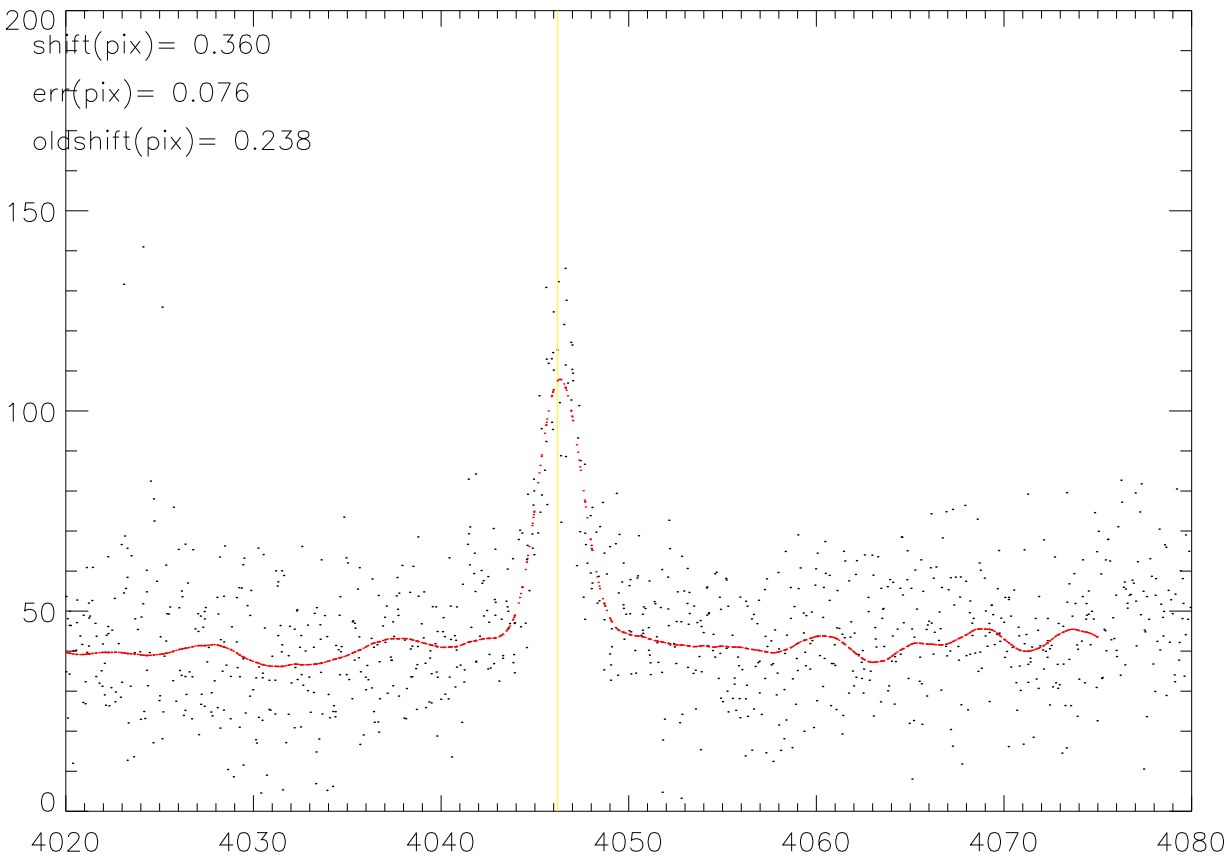

PLATE=2270 MJD=53714 Scattered Light before halo removal on sdR-b2-00035463.f
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 13.177
Max value = 16.044
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 20:50:59 2008

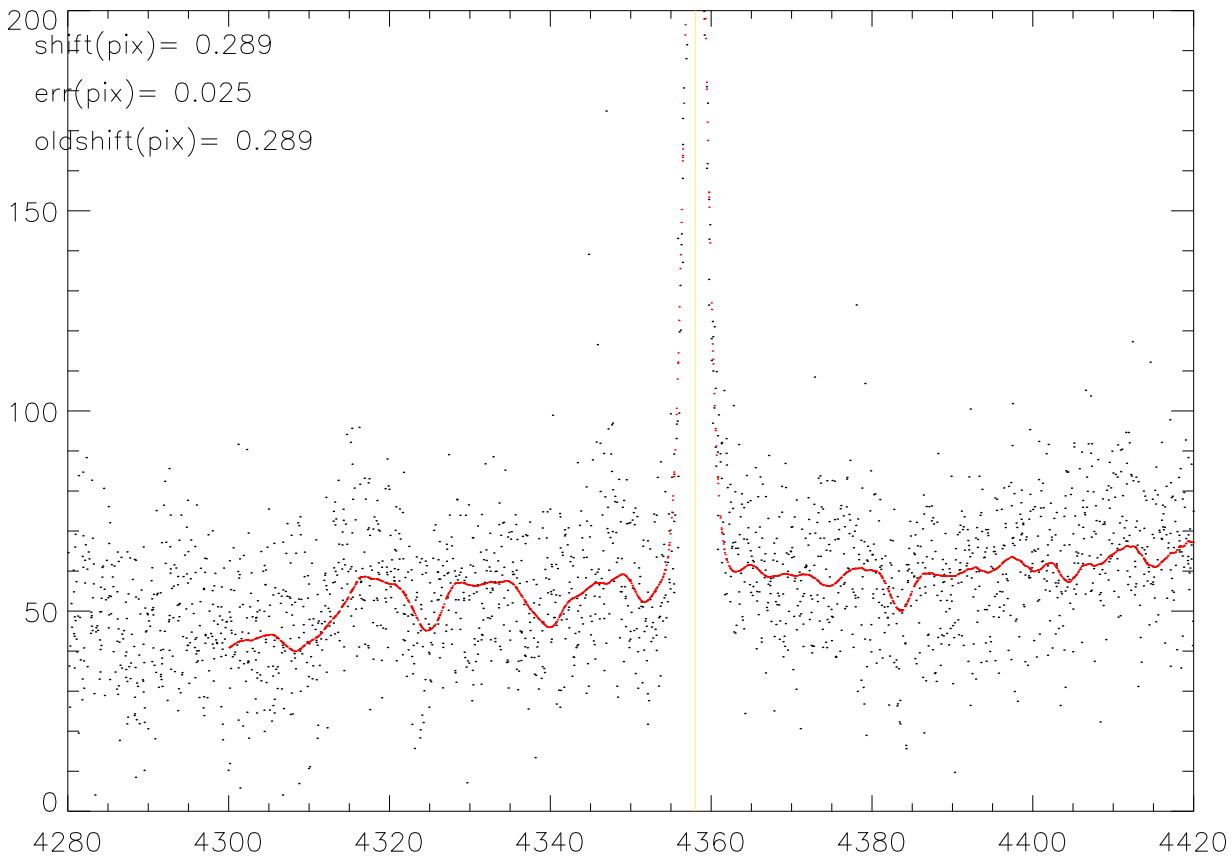

PLATE=2270 MJD=53714 Scattered Light on sdR-b2-00035463.fit
10.7
10.7
10.7
10.7
8.9
12.5
10.7
10.7
10.7
0
500
1000
1500
2000
Y [pix]
X [pix]

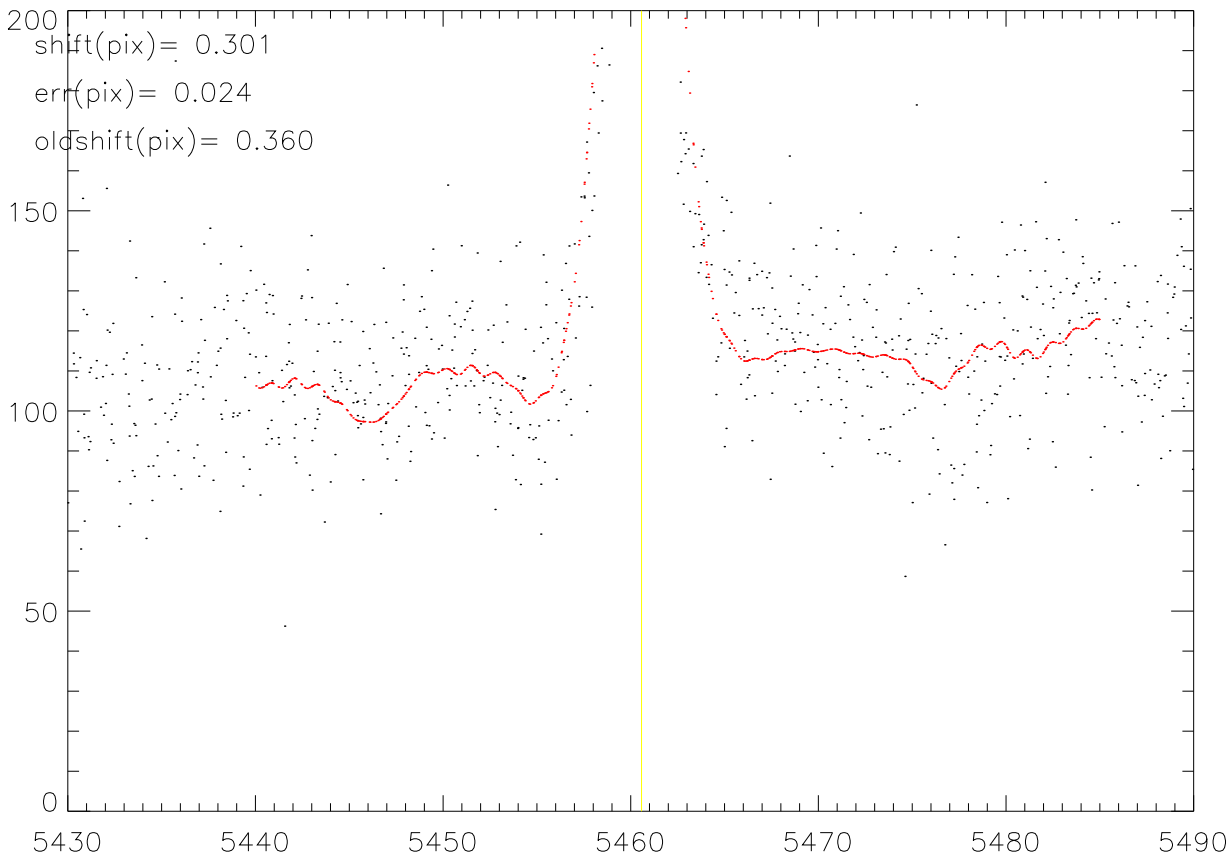

PLATE=2270 MJD=53714 Scattered Light on sdR-b2-00035463.fit
Brightness [electrons/pix]
20
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 8.991
Max value = 12.603
Sat Feb 16 20:54:20 2008

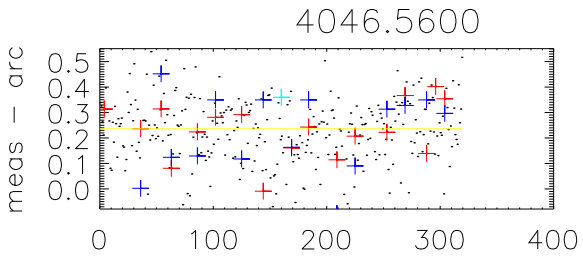

PLATE=2270 MJD=53714 Extraction chi^2 for sdR-b2-00035463.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

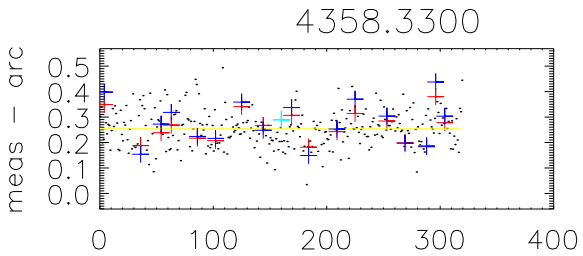

4046.5600
off: 0.24
sig: 0.059
4358.3300
off: 0.29
sig: 0.021
5460.9400
off: 0.36
sig: 0.019
5577.3390
off: 0.37
sig: 0.003
5889.9500
off: 0.43
sig: 0.006
5895.9240
off: 0.42
sig: 0.008

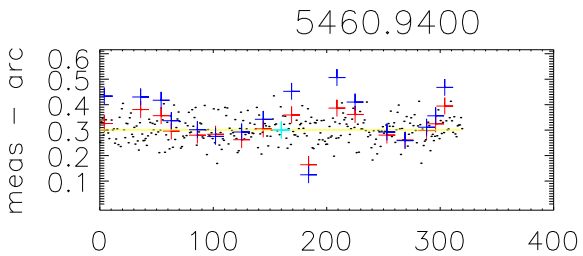

shift(pix)= 0.360
err(pix)= 0.076
oldshift(pix)= 0.238
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

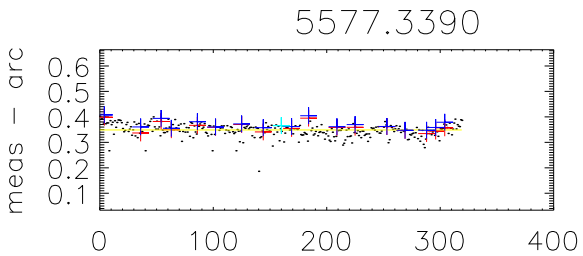

shift(pix)= 0.289
err(pix)= 0.025
oldshift(pix)= 0.289
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

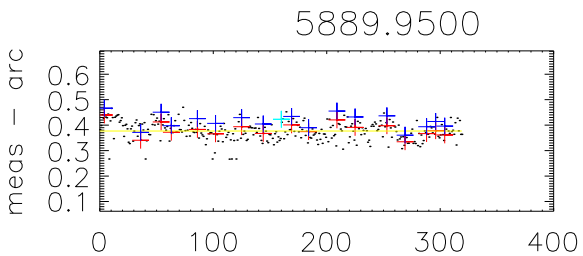

shift(pix)= 0.301
err(pix)= 0.024
oldshift(pix)= 0.360
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

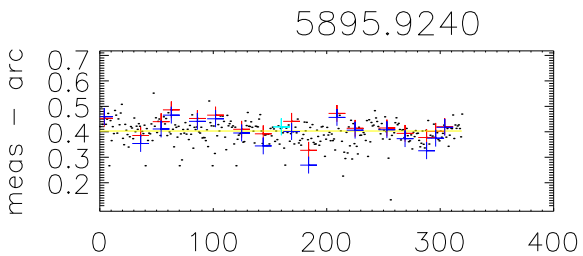

4046.5600
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

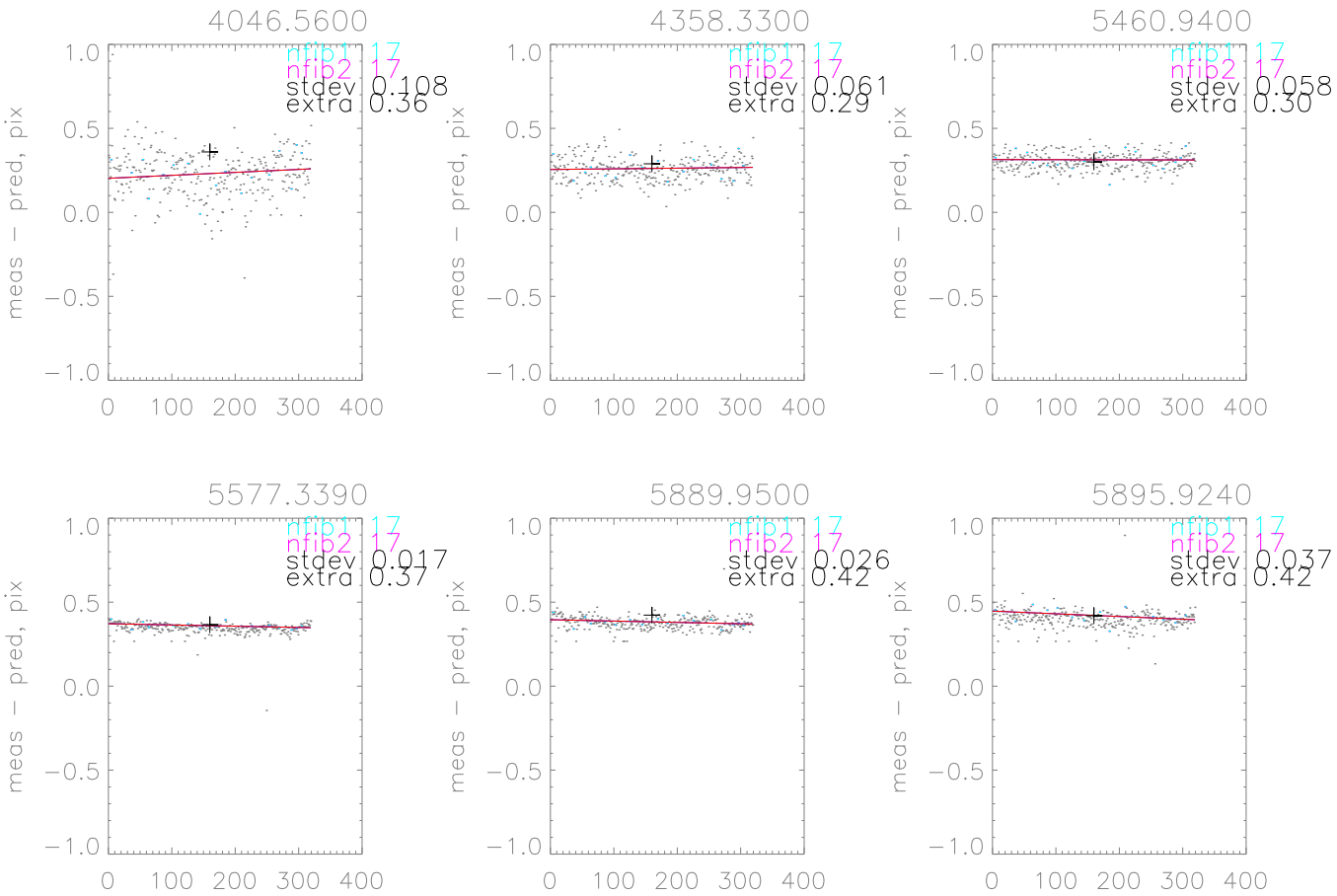

4358.3300
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

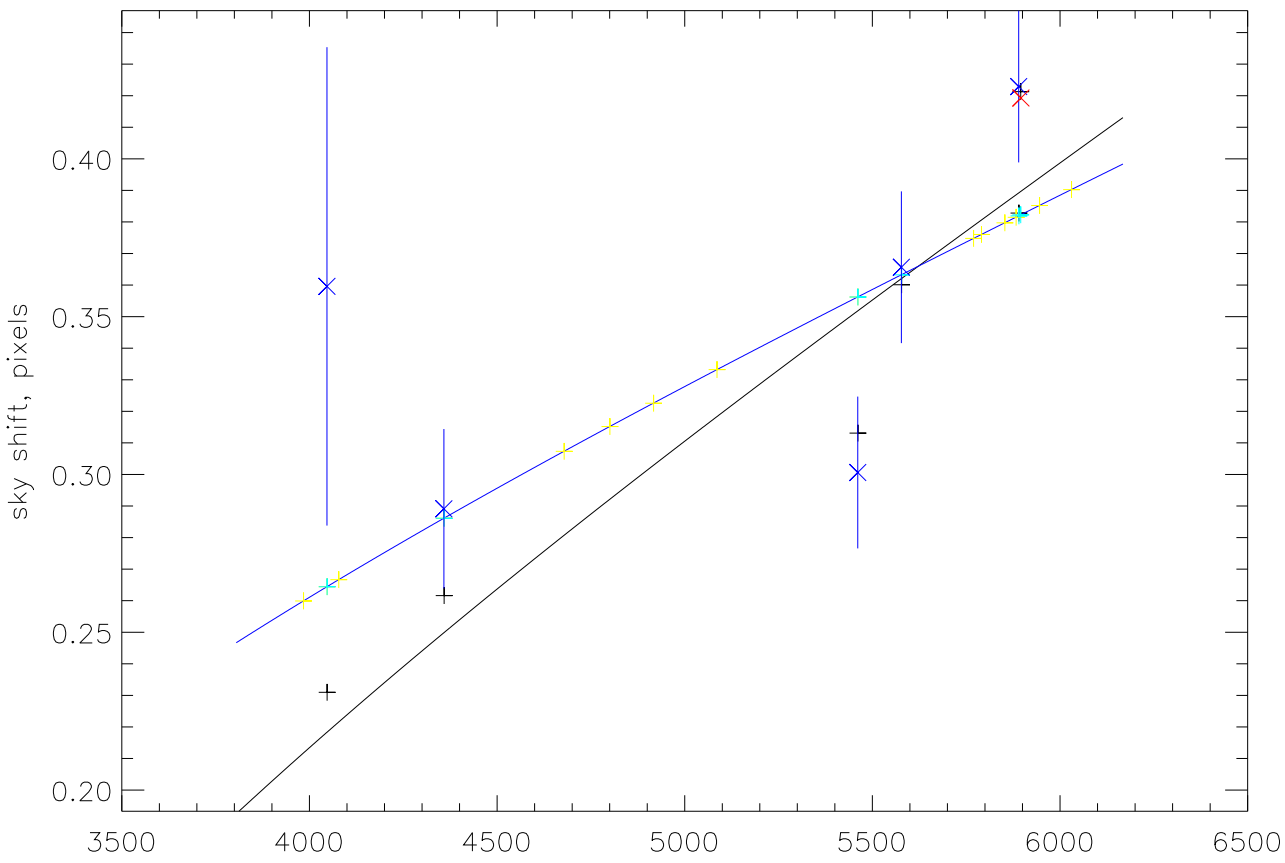

5460.9400
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

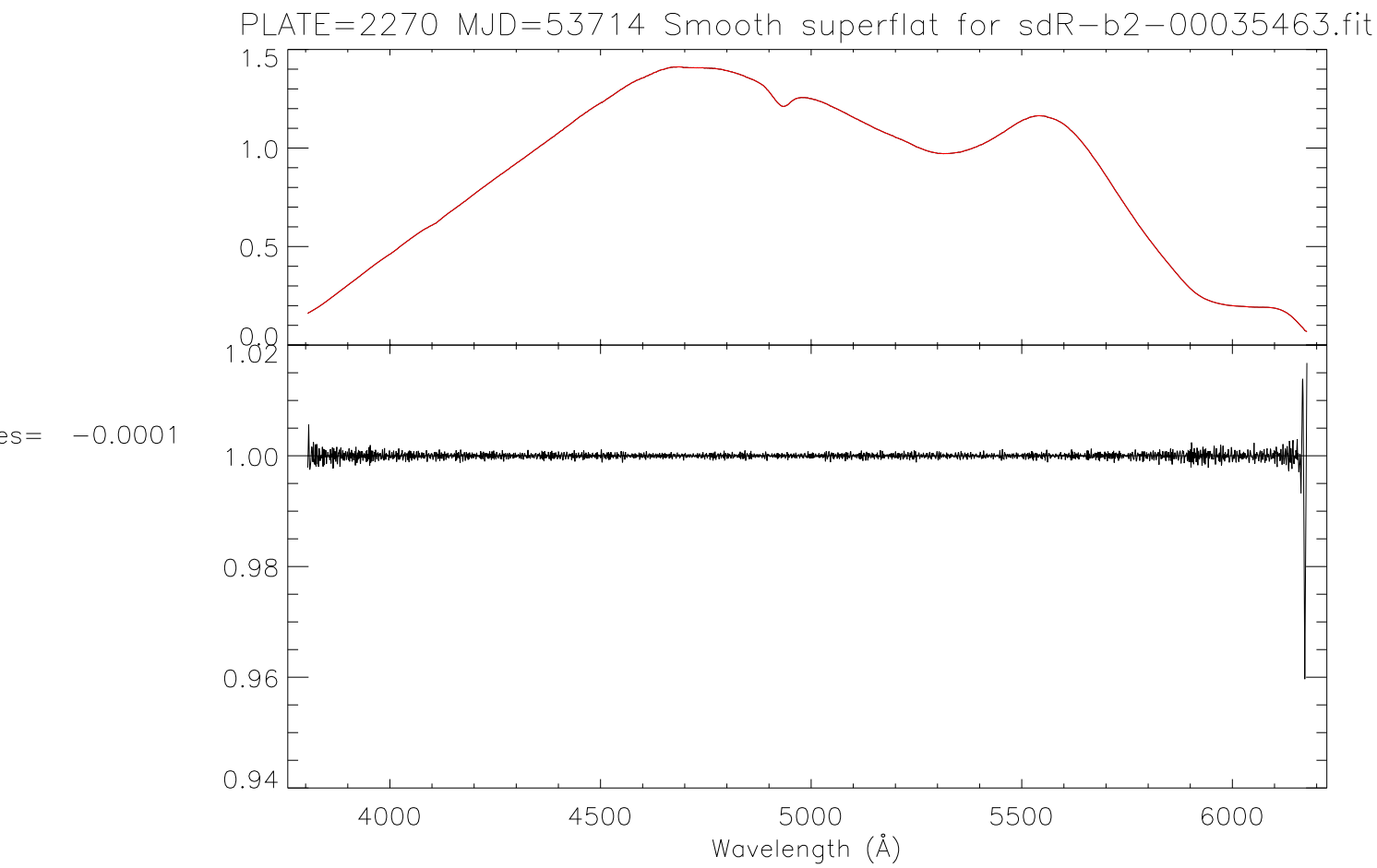

5577.3390
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400


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

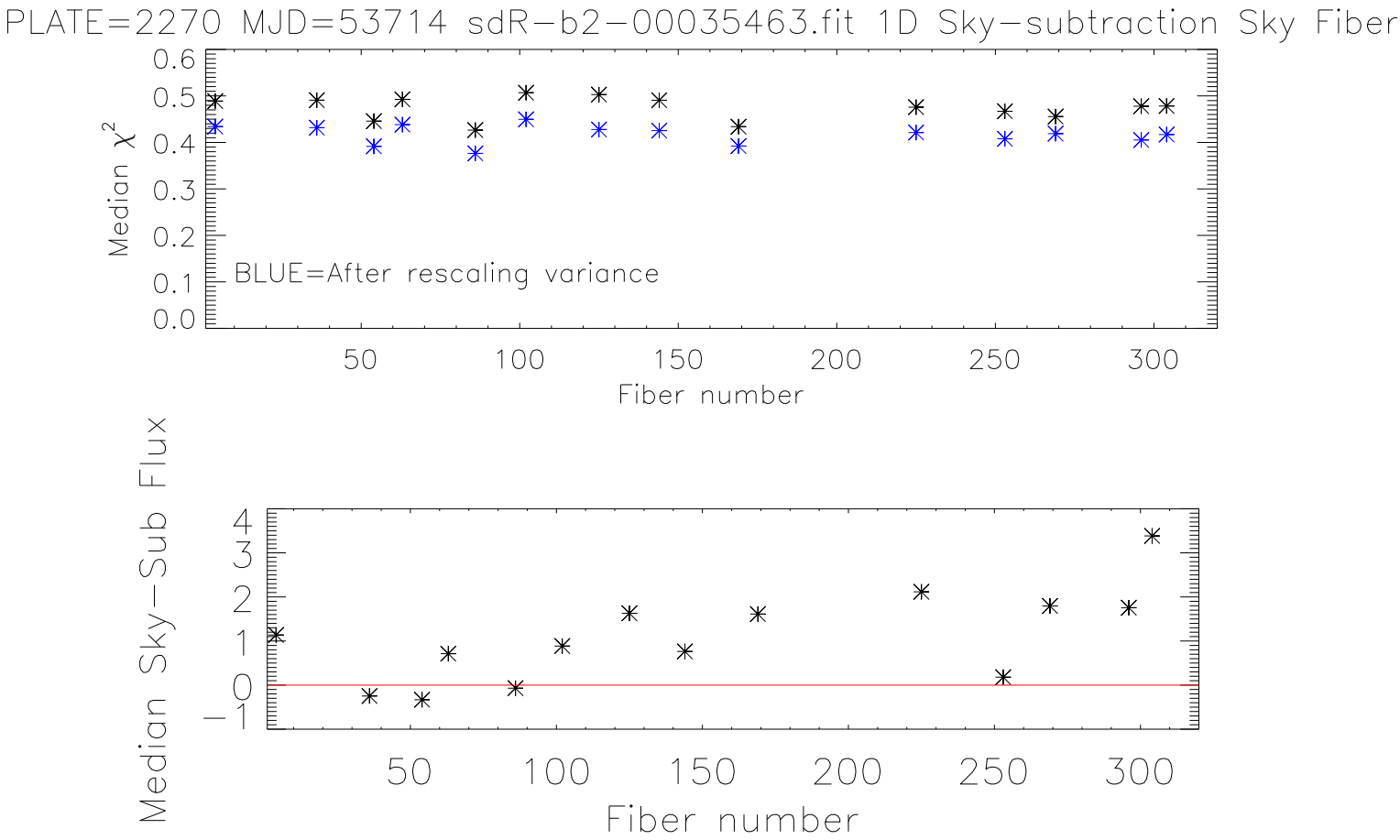

5895.9240
meas − arc
0.2
0.3
0.4
0.5
0.6
0.7
0
100
200
300
400

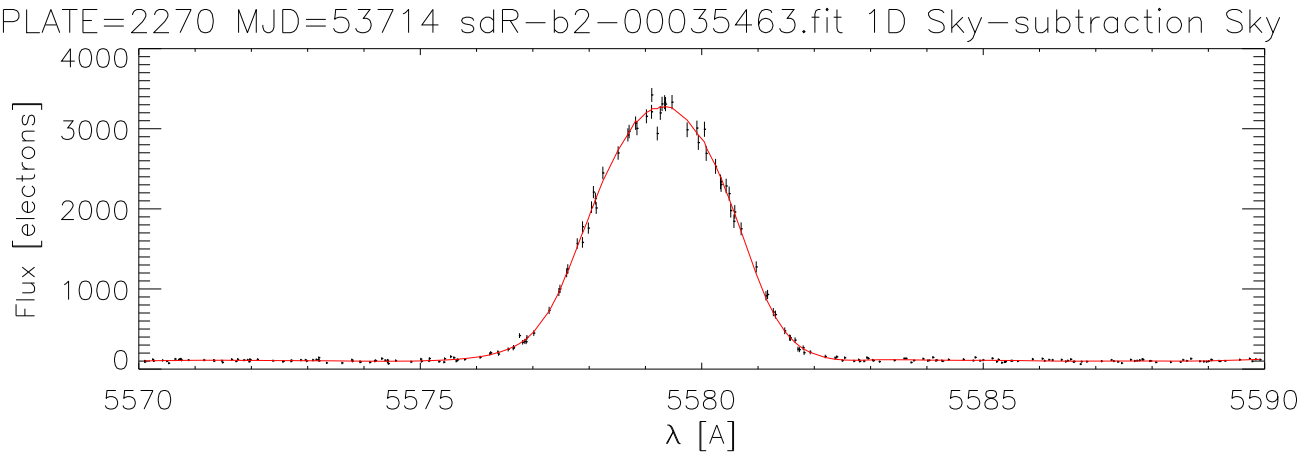

4046.5600
nfib1 17
nfib2 17
stdev 0.108
extra 0.36
4358.3300
nfib1 17
nfib2 17
stdev 0.061
extra 0.29
5460.9400
nfib1 17
nfib2 17
stdev 0.058
extra 0.30
5577.3390
nfib1 17
nfib2 17
stdev 0.017
extra 0.37
5889.9500
nfib1 17
nfib2 17
stdev 0.026
extra 0.42
5895.9240
nfib1 17
nfib2 17
stdev 0.037
extra 0.42
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

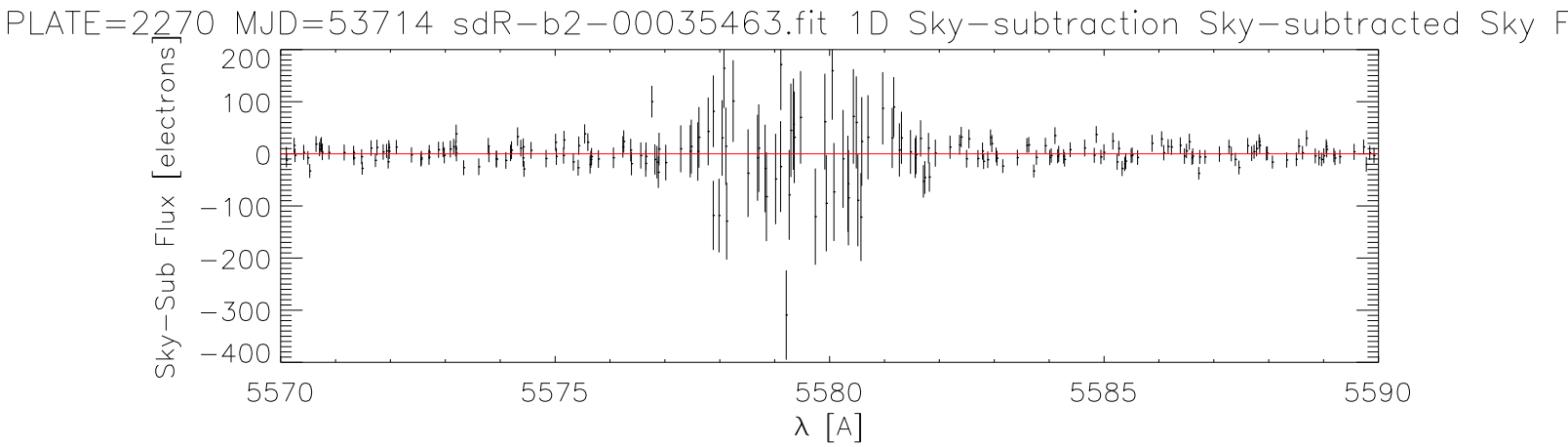

sky shift, pixels
0.20
0.25
0.30
0.35
0.40
3500
4000
4500
5000
5500
6000
6500

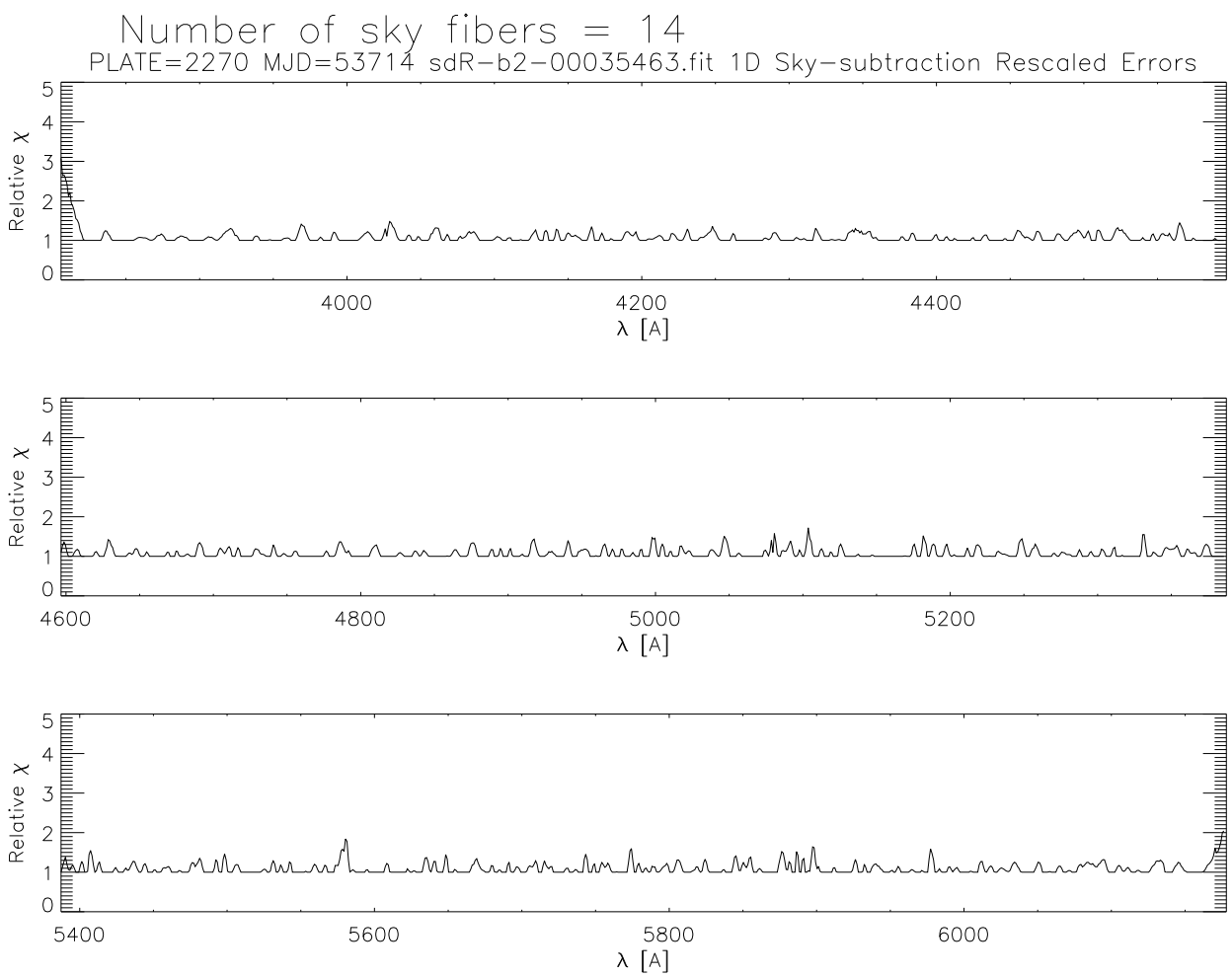

PLATE=2270 MJD=53714 Smooth superflat for sdR-b2-00035463.fit
1.5
1.0
0.5
0.0
1.02
1.00
0.98
0.96
0.94
4000
4500
5000
5500
6000
Wavelength (Å)

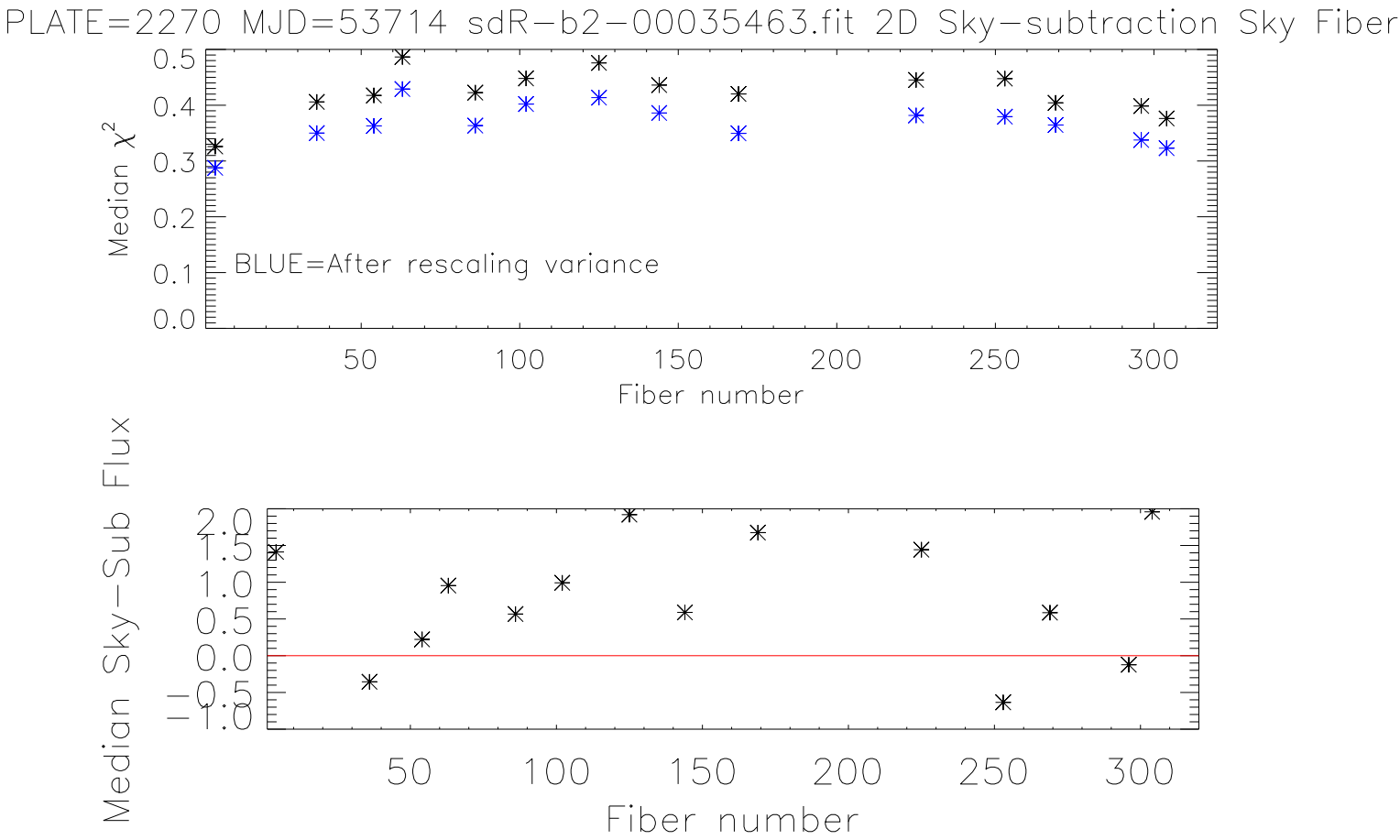
es= −0.0001

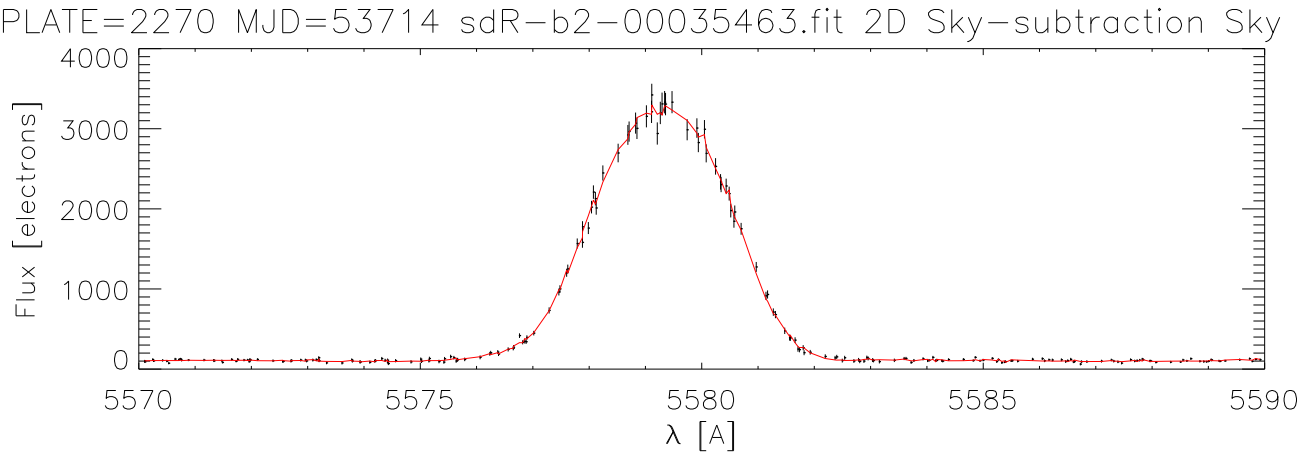

PLATE=2270 MJD=53714 sdR-b2-00035463.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

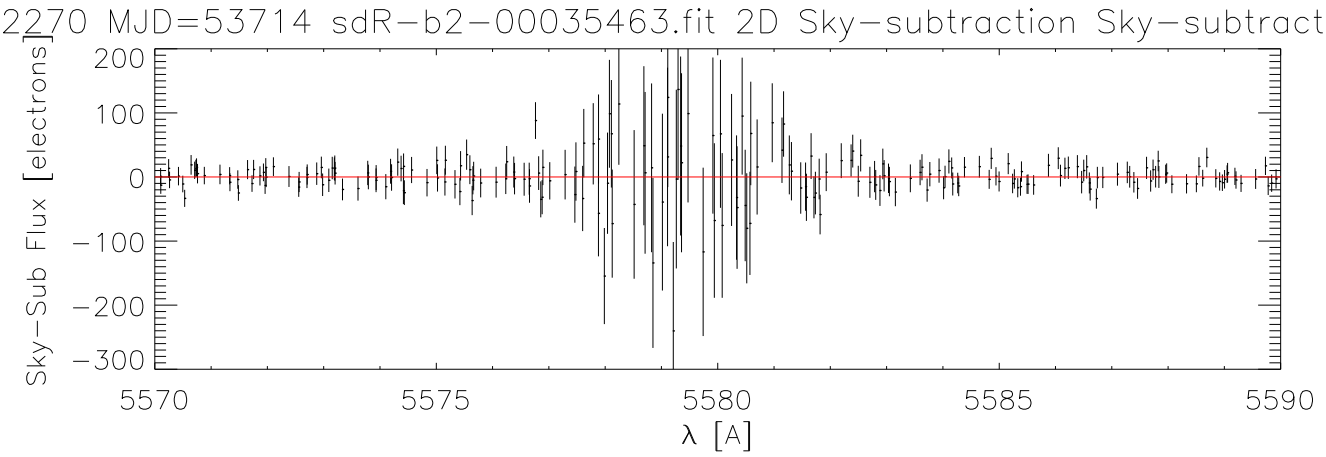

PLATE=2270 MJD=53714 sdR-b2-00035463.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

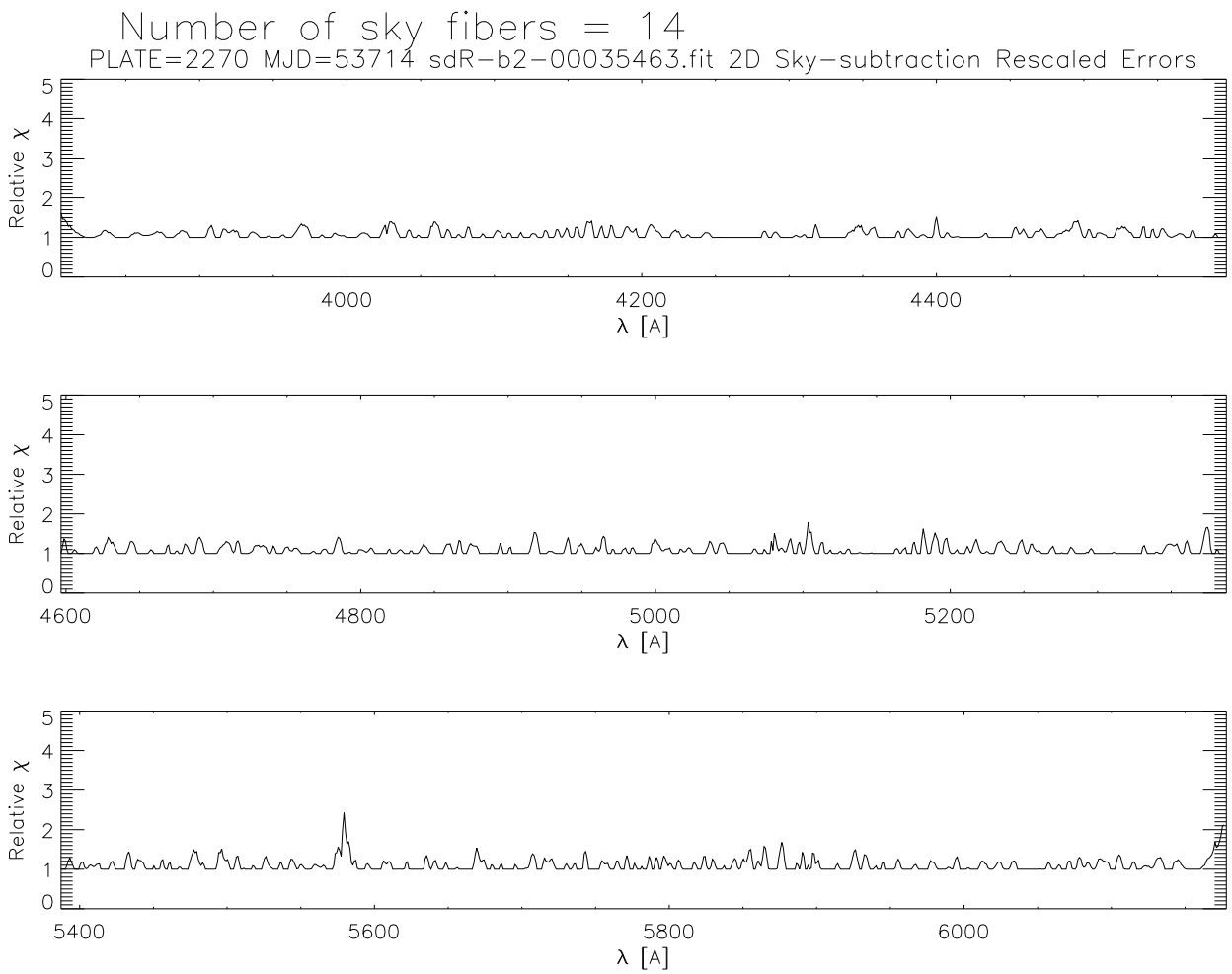

PLATE=2270 MJD=53714 sdR-b2-00035463.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
-400
5570
5575
5580
5585
5590
λ [A]

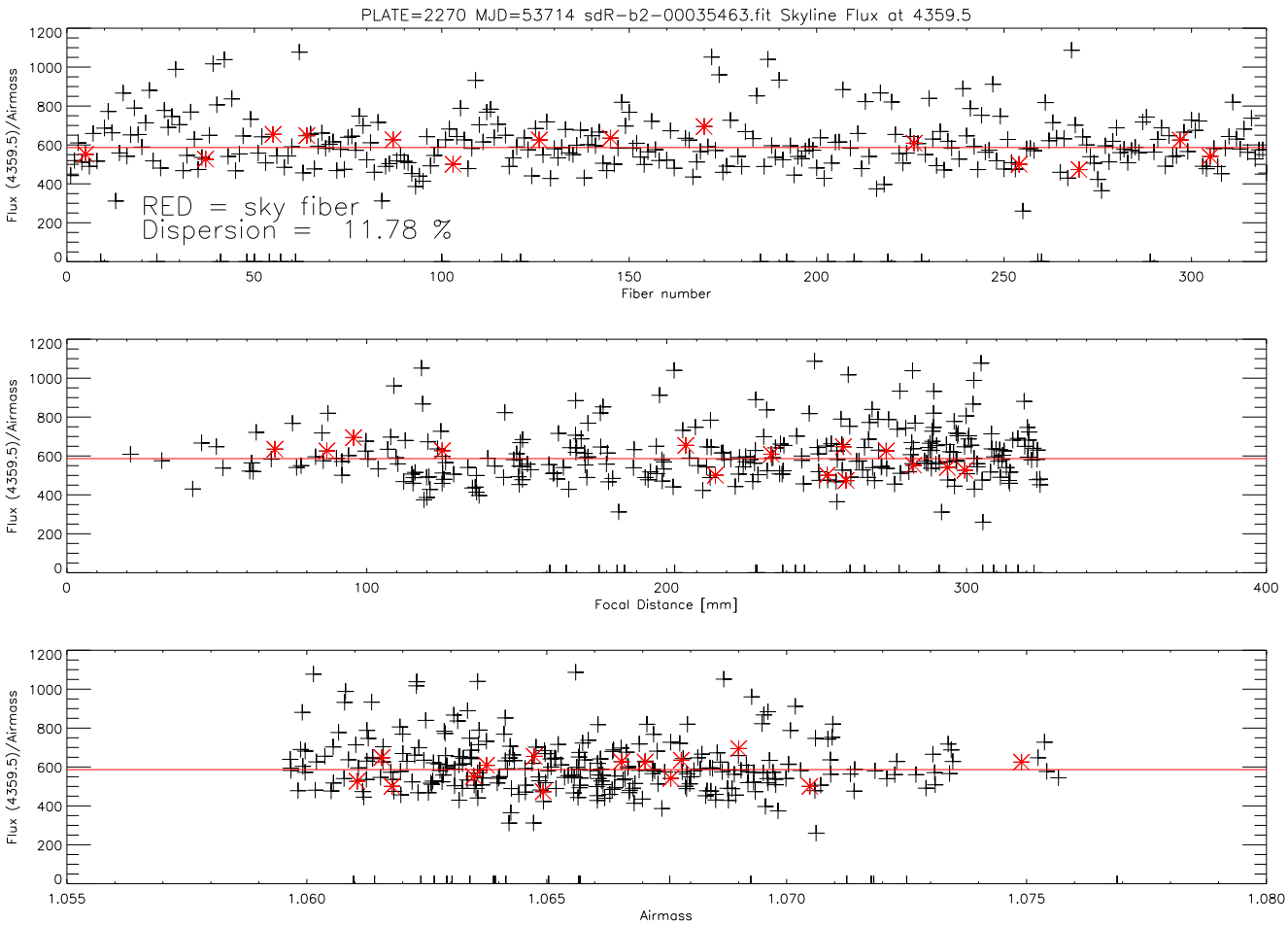

Number of sky fibers = 14
PLATE=2270 MJD=53714 sdR-b2-00035463.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

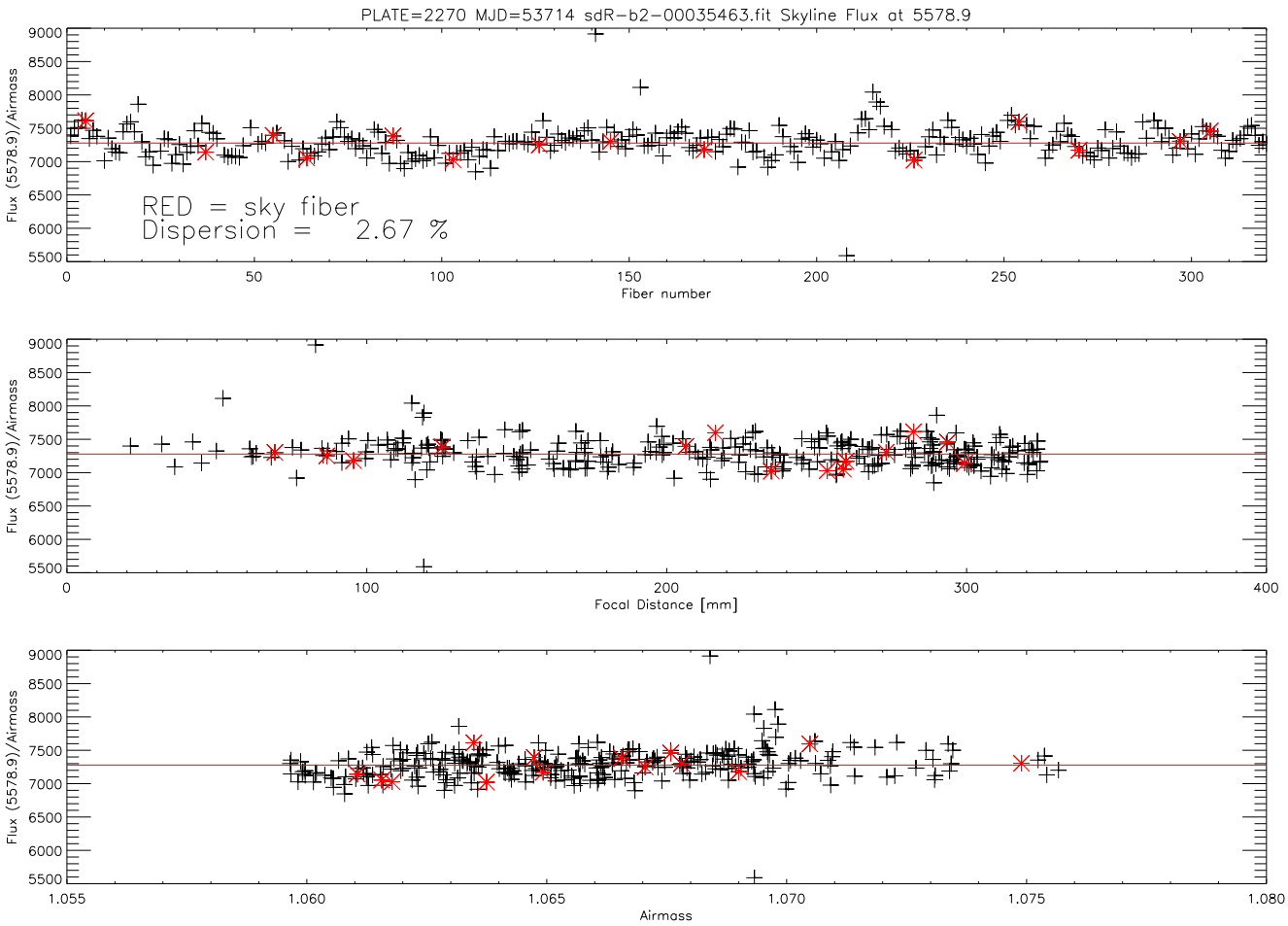

PLATE=2270 MJD=53714 sdR-b2-00035463.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

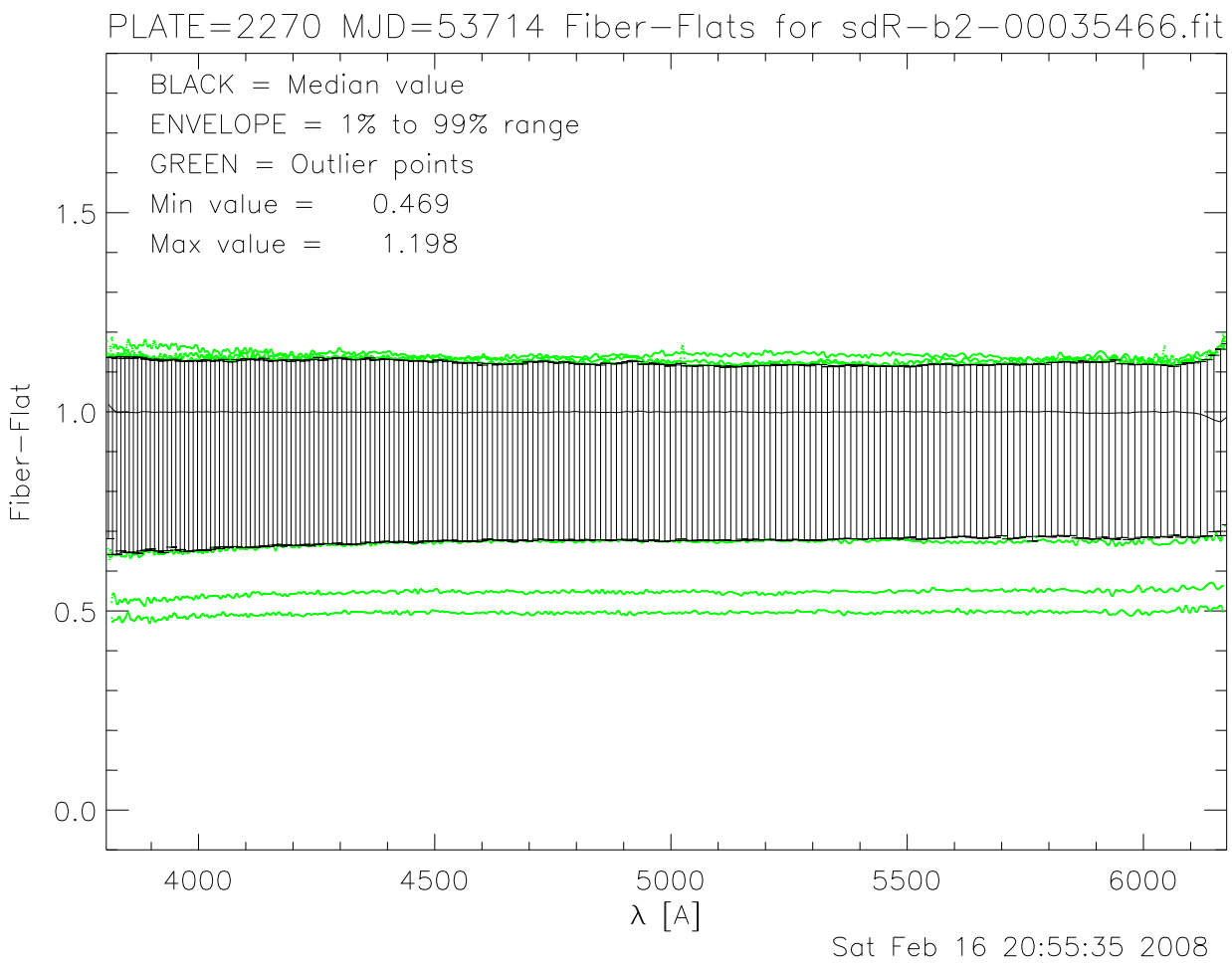

PLATE=2270 MJD=53714 sdR-b2-00035463.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

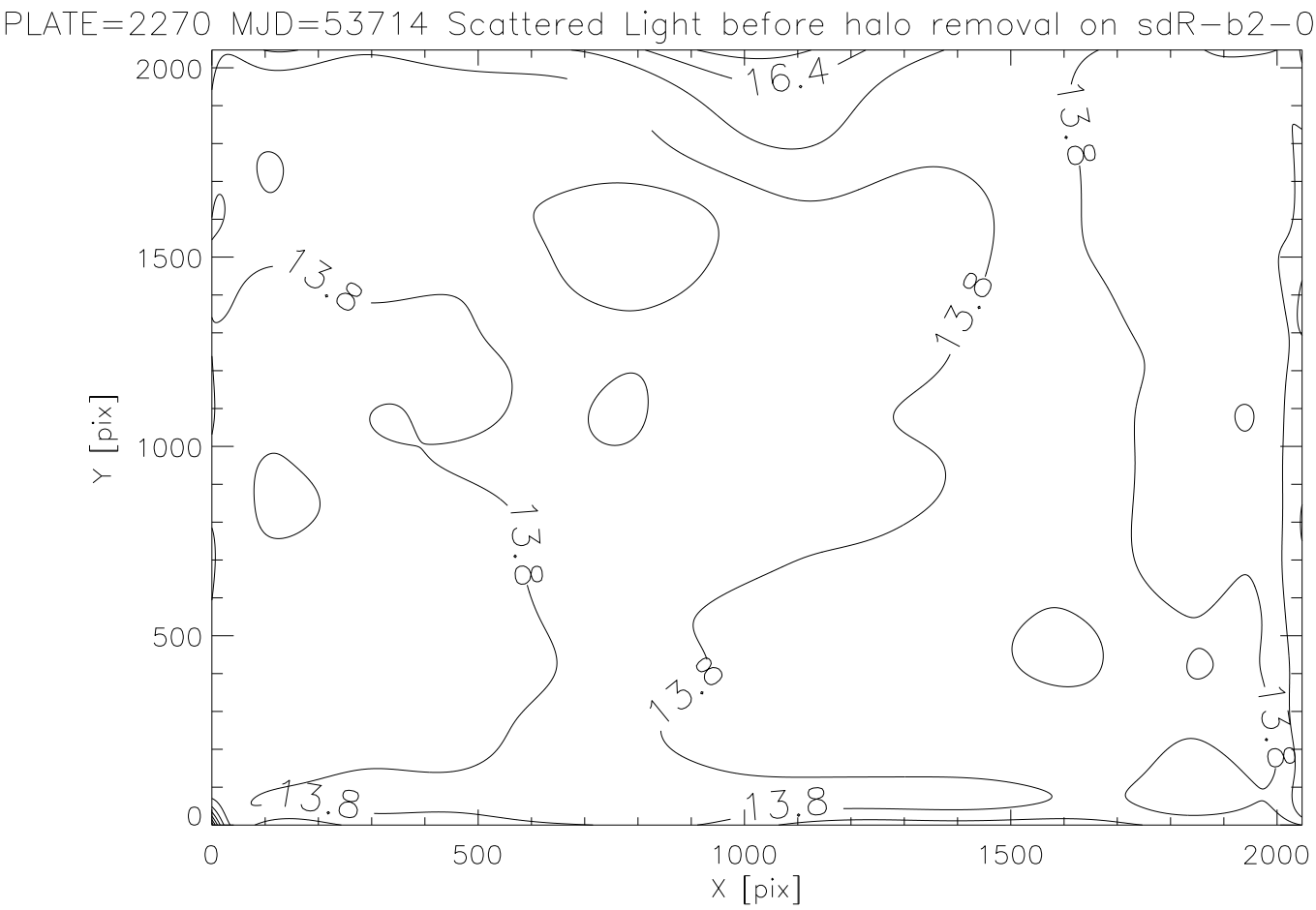

PLATE=2270 MJD=53714 sdR-b2-00035463.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

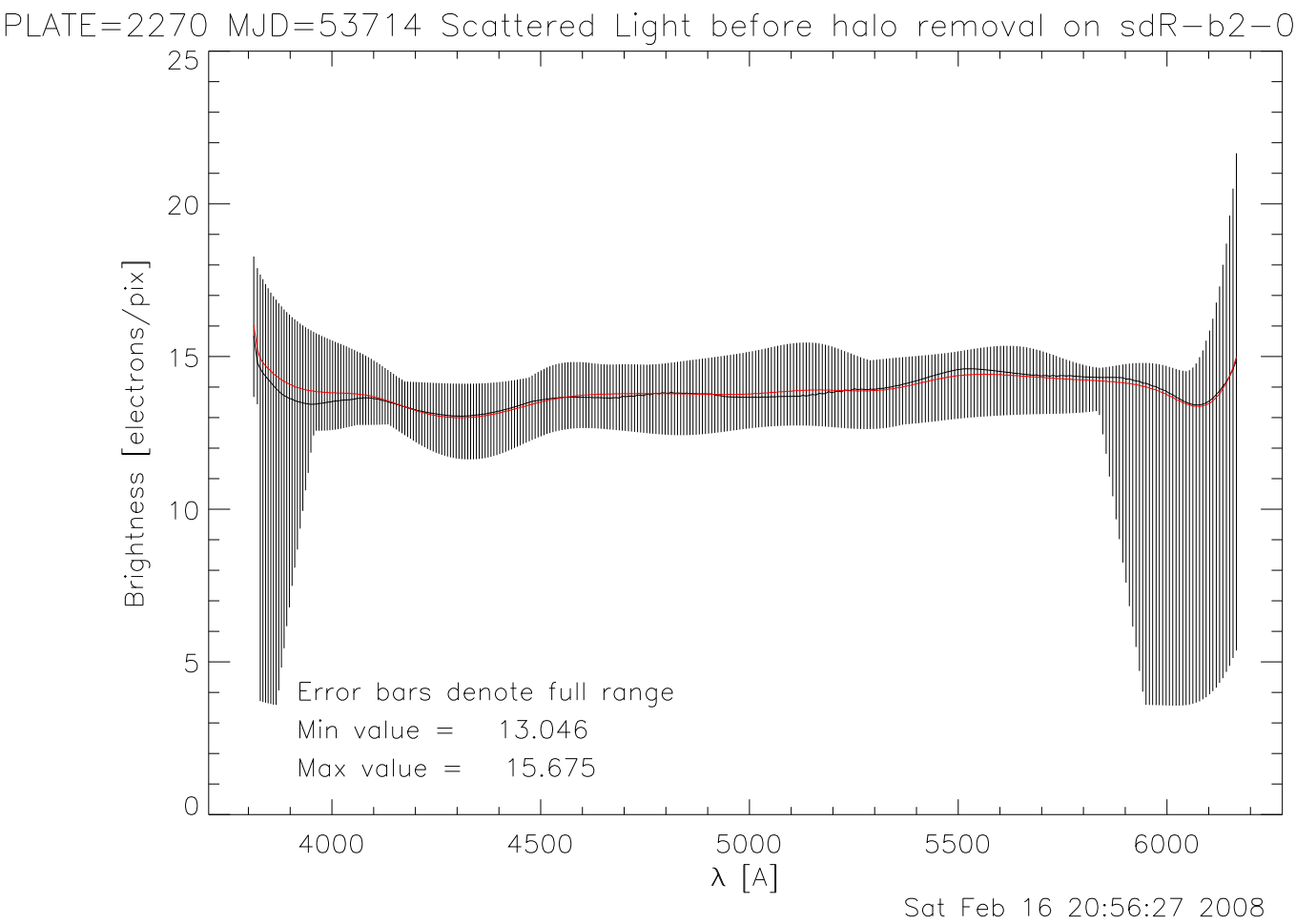

Number of sky fibers = 14
PLATE=2270 MJD=53714 sdR-b2-00035463.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

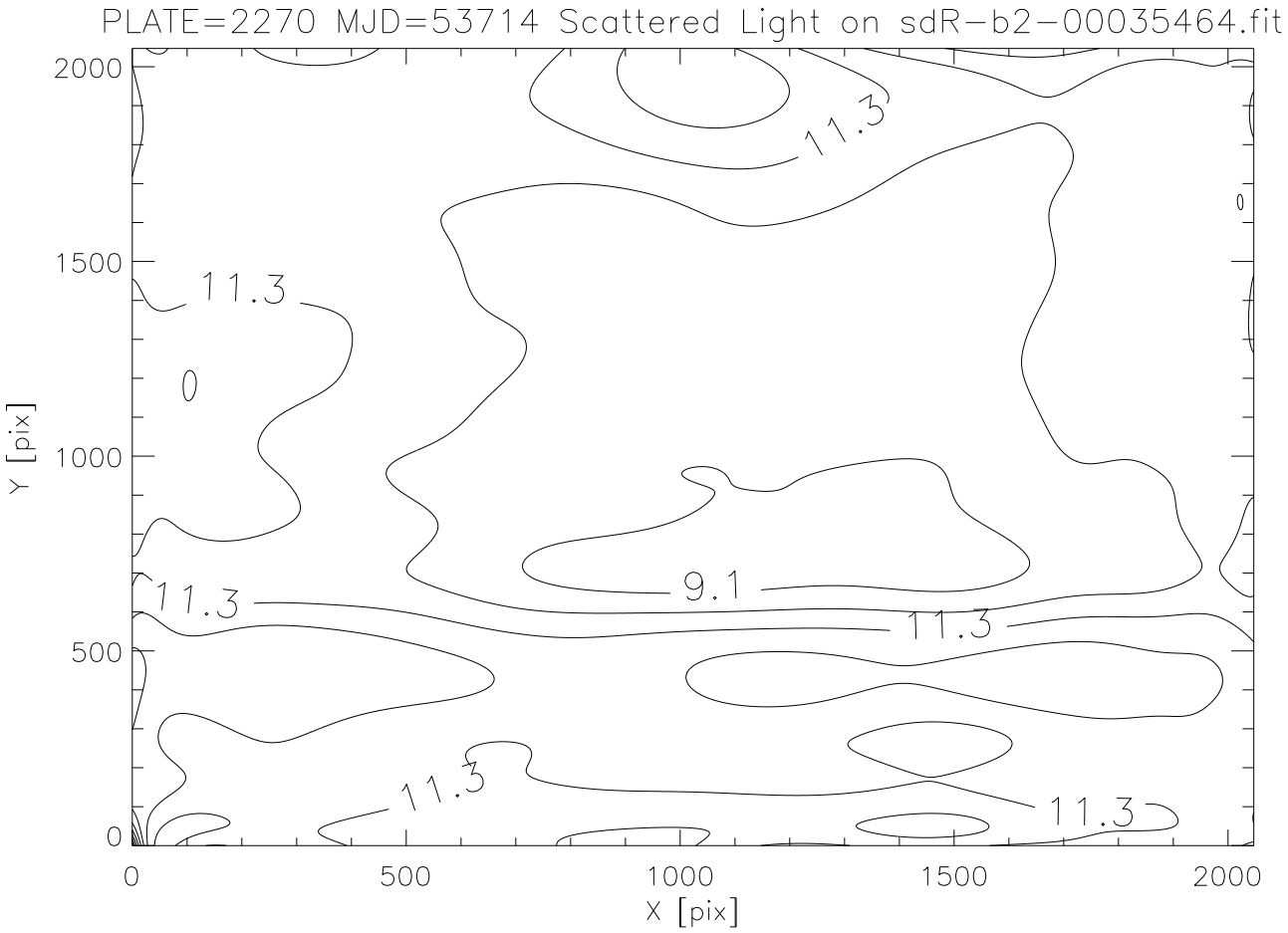

PLATE=2270 MJD=53714 sdR-b2-00035463.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 11.78 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

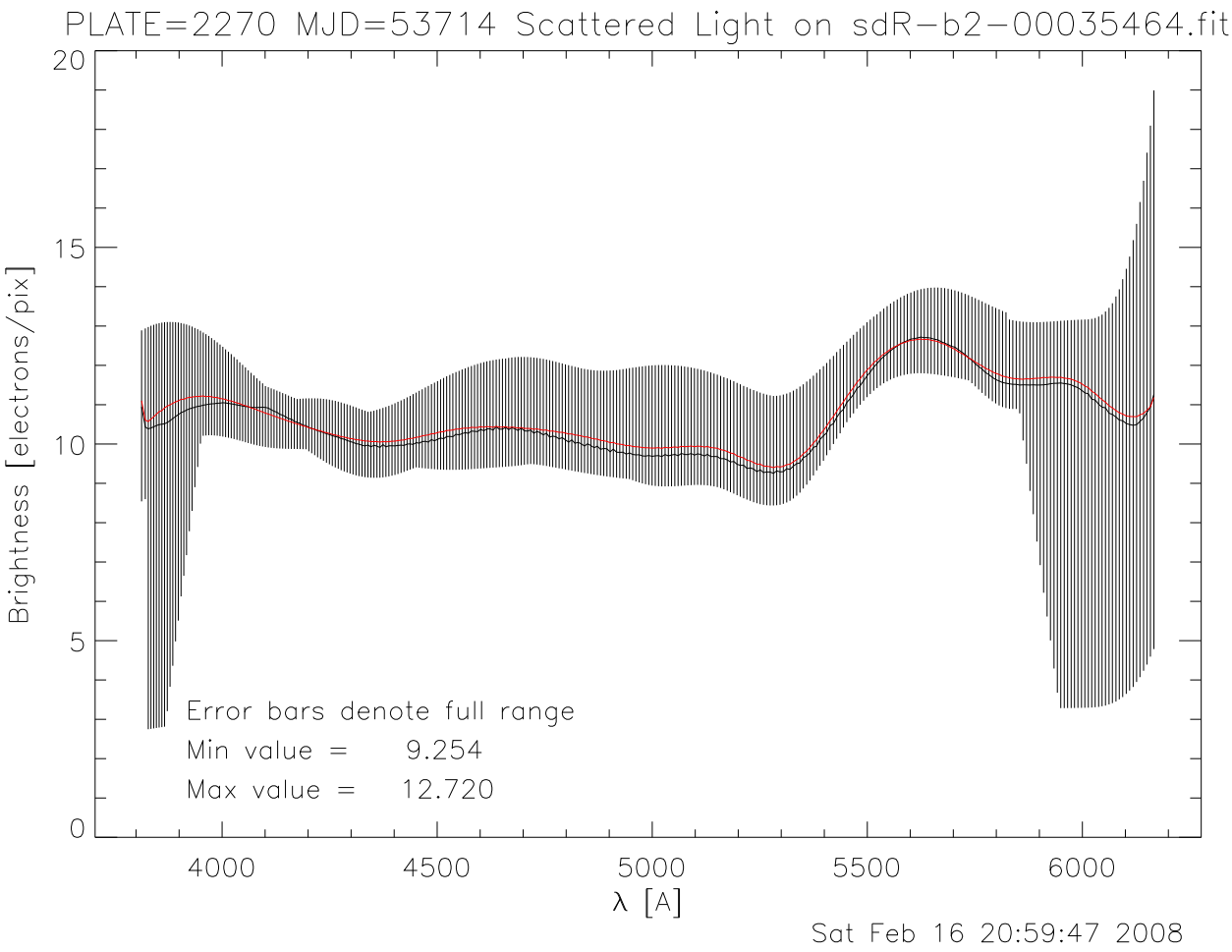

PLATE=2270 MJD=53714 sdR-b2-00035463.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.67 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

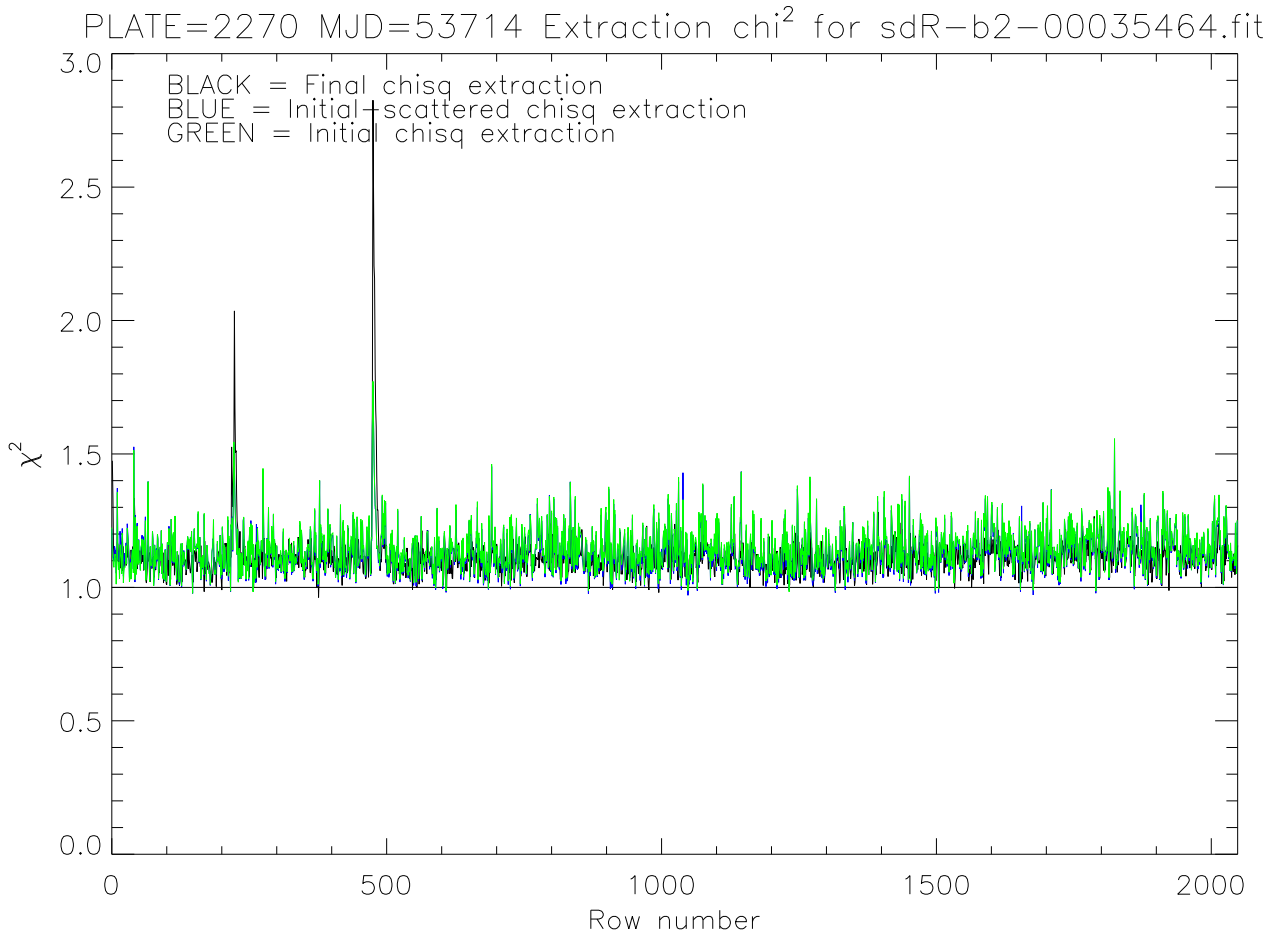

PLATE=2270 MJD=53714 Fiber-Flats for sdR-b2-00035466.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.469
Max value = 1.198
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 20:55:35 2008

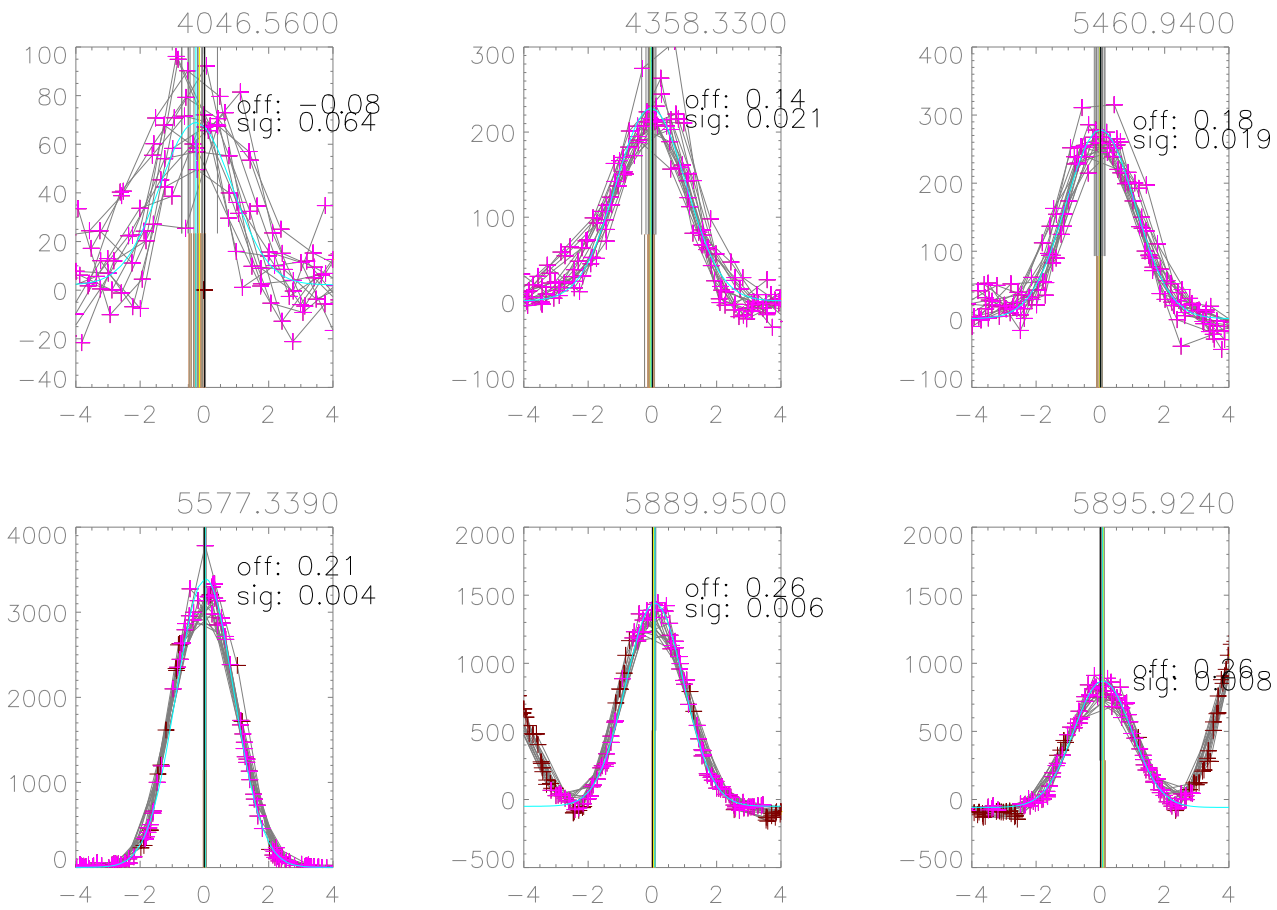

PLATE=2270 MJD=53714 Scattered Light before halo removal on sdR−b2−00035464.f
16.4
13.8
13.8
13.8
13.8
13.8
13.8
13.8
0
0
0
2000
1500
1000
500
0
0
500
1000
1500
2000
Y [pix]
X [pix]

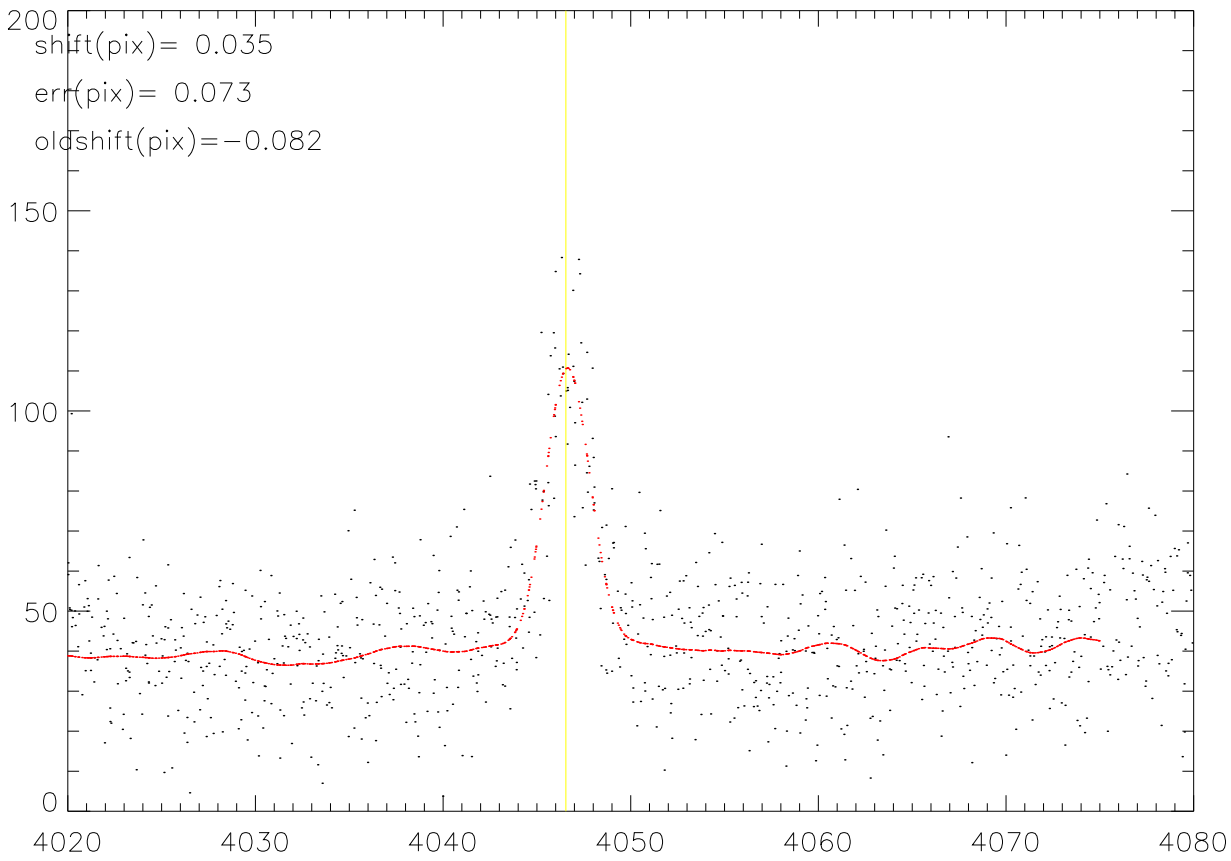

PLATE=2270 MJD=53714 Scattered Light before halo removal on sdR-b2-00035464.f
Brightness [electrons/pix]
25
20
15
10
5
0
Error bars denote full range
Min value = 13.046
Max value = 15.675
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 20:56:27 2008

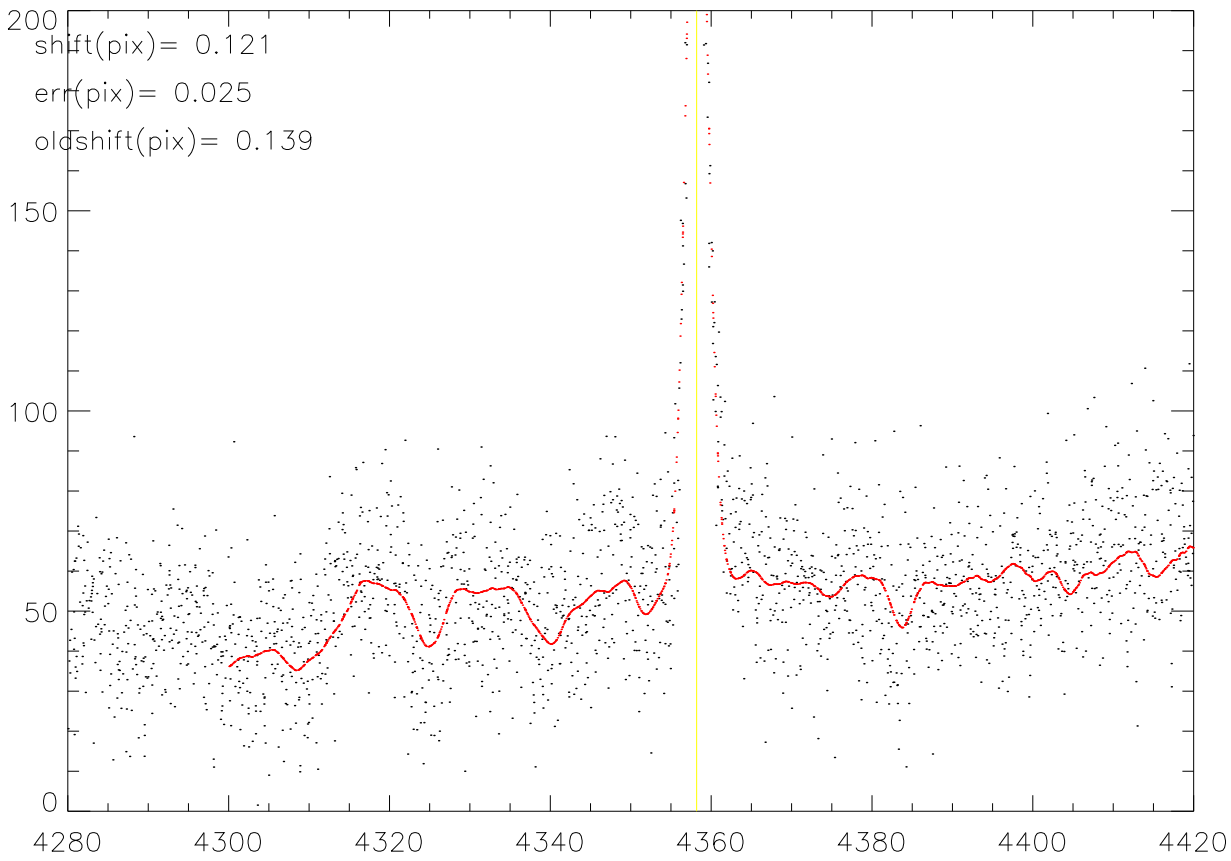

PLATE=2270 MJD=53714 Scattered Light on sdR-b2-00035464.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
11.3
11.3
0
9.1
11.3
11.3
11.3
0

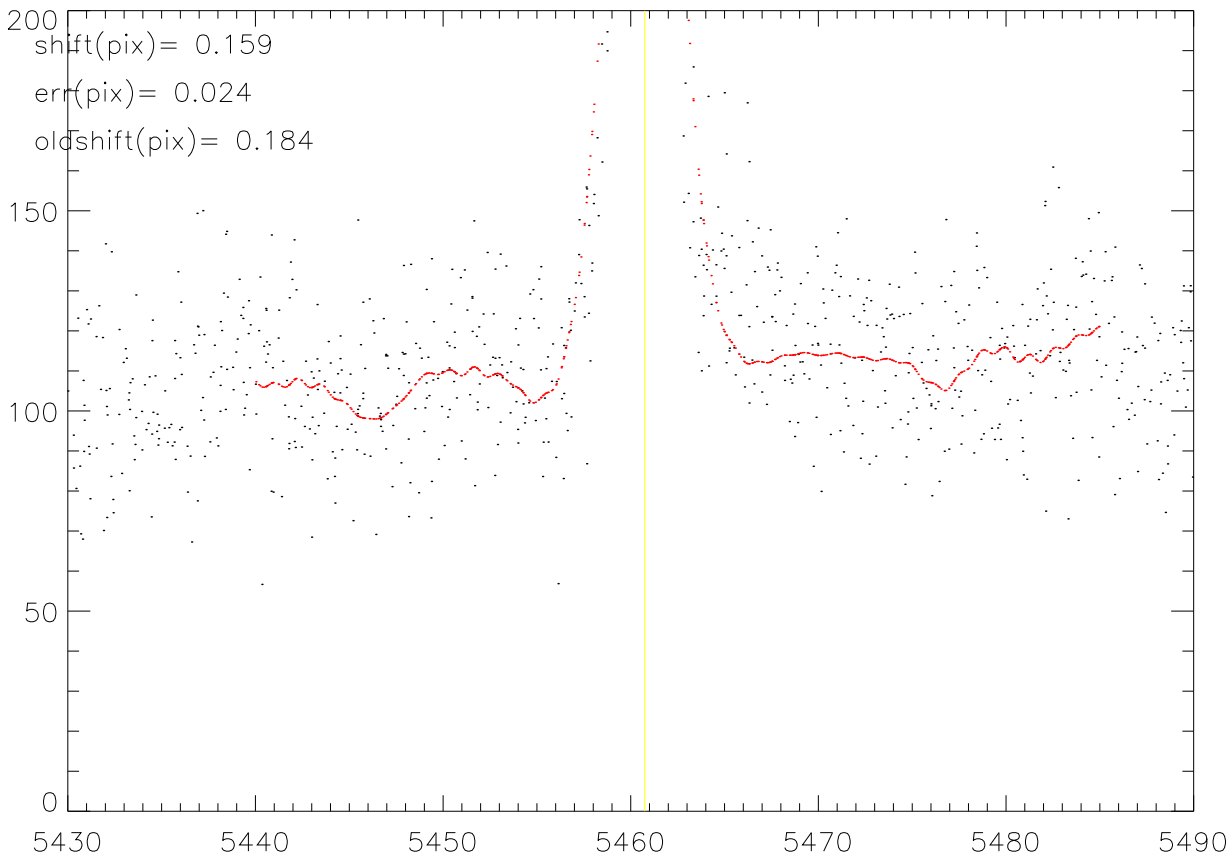

PLATE=2270 MJD=53714 Scattered Light on sdR-b2-00035464.fit
Brightness [electrons/pix]
20
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 9.254
Max value = 12.720
Sat Feb 16 20:59:47 2008

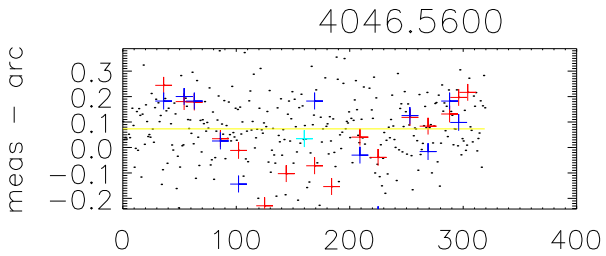

PLATE=2270 MJD=53714 Extraction chi^2 for sdR-b2-00035464.fit
BLACK = Final chisq extraction
BLUE = Initial+scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

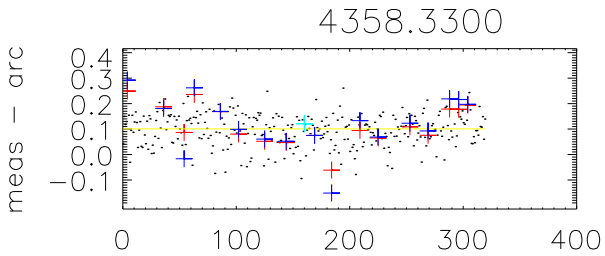

4046.5600
off: −0.08
sig: 0.064
4358.3300
off: 0.14
sig: 0.021
5460.9400
off: 0.18
sig: 0.019
5577.3390
off: 0.21
sig: 0.004
5889.9500
off: 0.26
sig: 0.006
5895.9240
off: 0.26
sig: 0.008

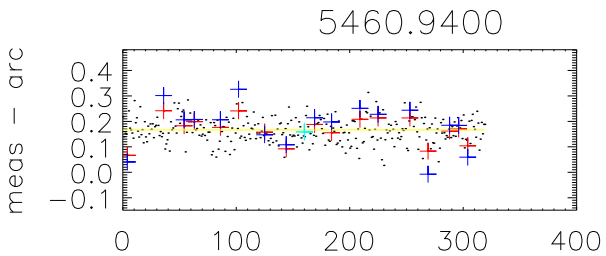

shift(pix)= 0.035
err(pix)= 0.073
oldshift(pix)=−0.082
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

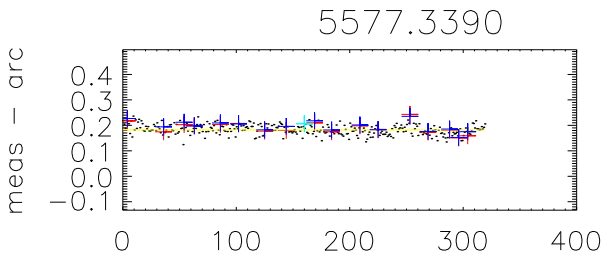

shift(pix)= 0.121
err(pix)= 0.025
oldshift(pix)= 0.139
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

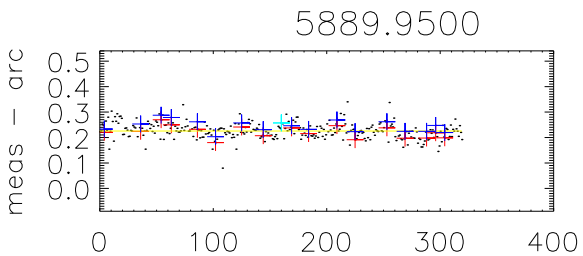

shift(pix)= 0.159
err(pix)= 0.024
oldshift(pix)= 0.184
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

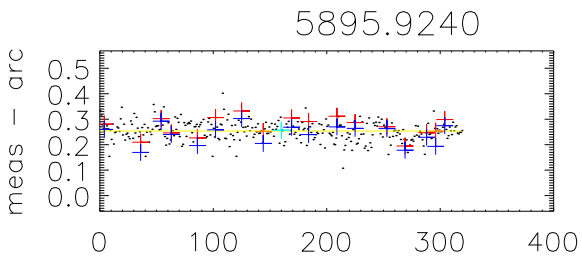

4046.5600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

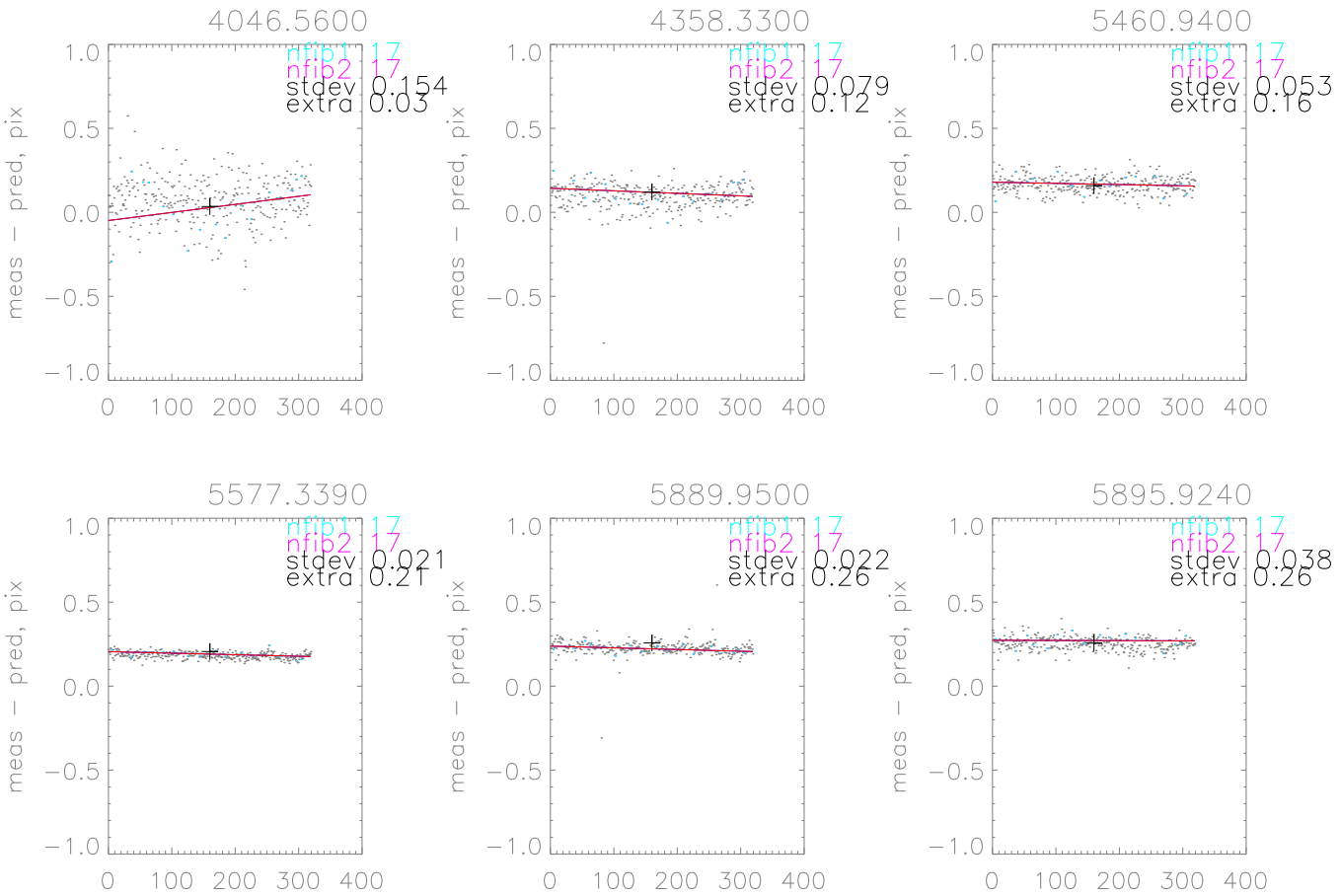

4358.3300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

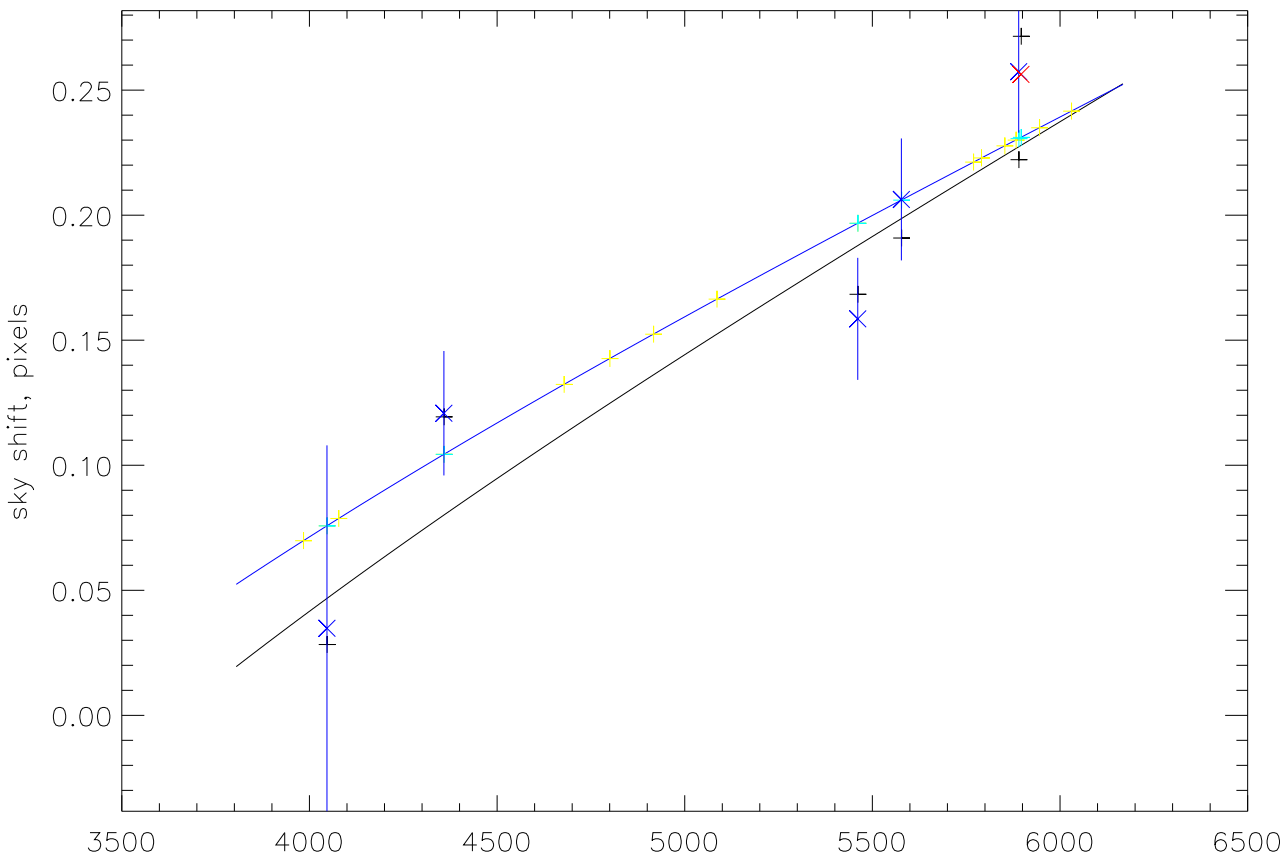

5460.9400
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

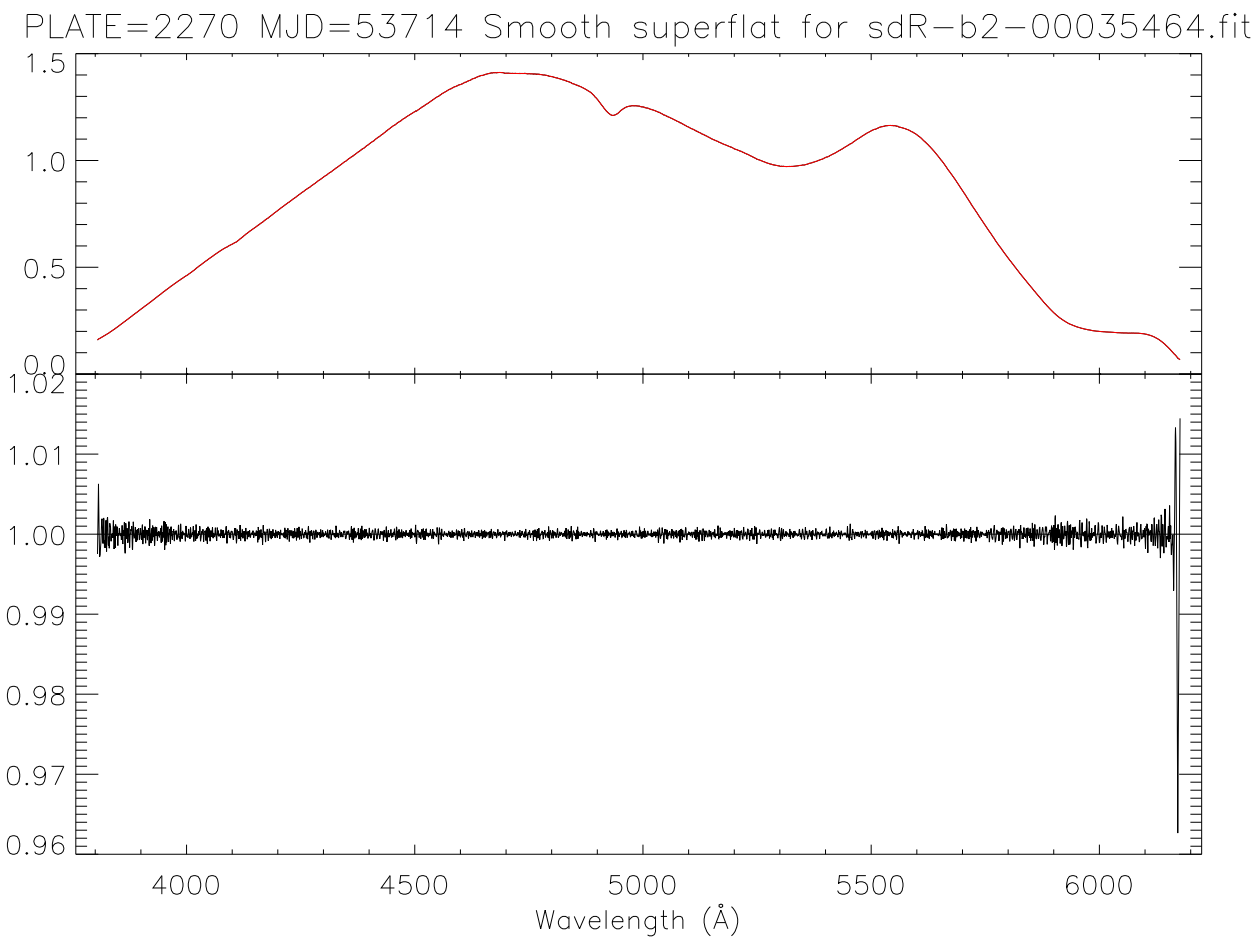

5889.9500
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

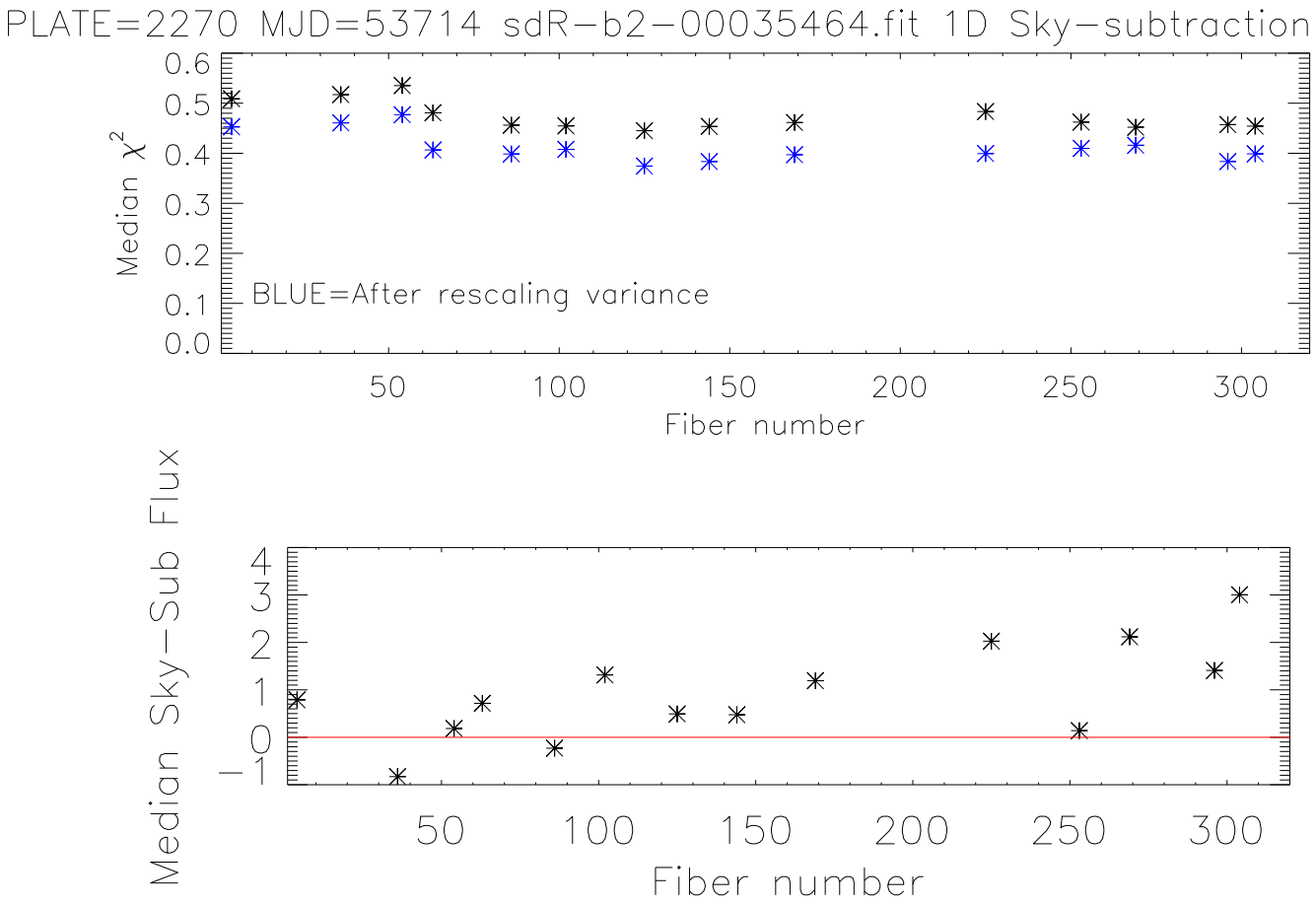

5895.9240
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

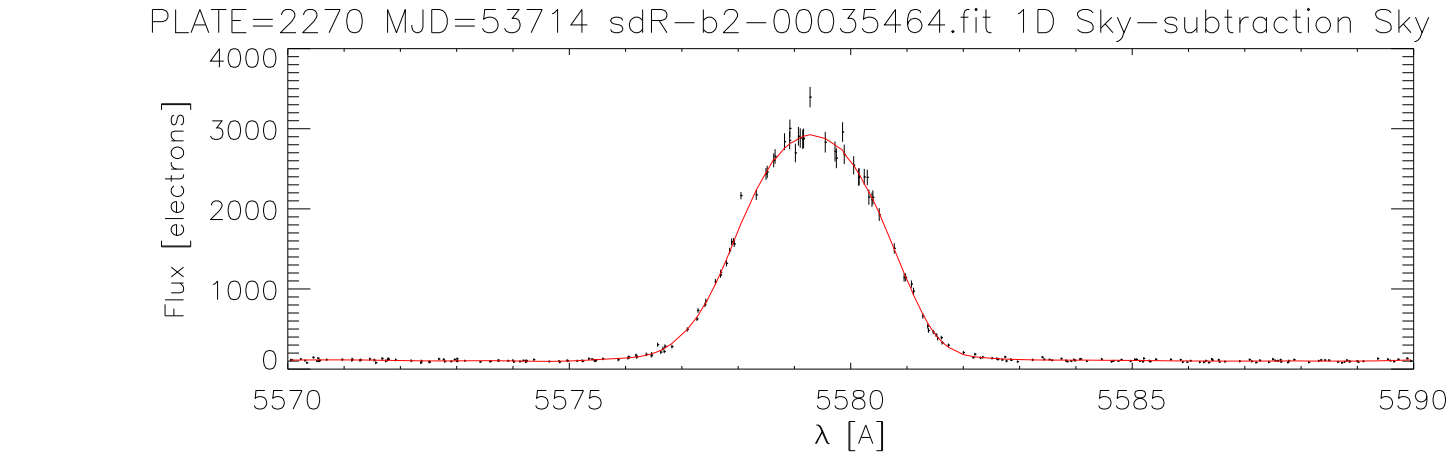

4046.5600
nfib1 17
nfib2 17
stdev 0.154
extra 0.03
4358.3300
nfib1 17
nfib2 17
stdev 0.079
extra 0.12
5460.9400
nfib1 17
nfib2 17
stdev 0.053
extra 0.16
5577.3390
nfib1 17
nfib2 17
stdev 0.021
extra 0.21
5889.9500
nfib1 17
nfib2 17
stdev 0.022
extra 0.26
5895.9240
nfib1 17
nfib2 17
stdev 0.038
extra 0.26
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

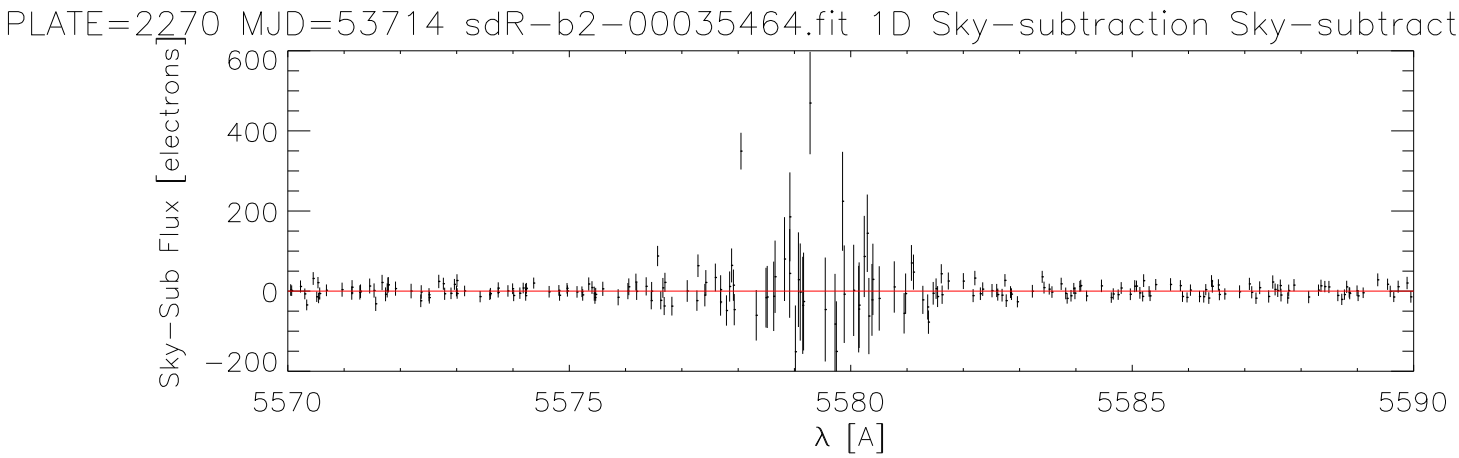

sky shift, pixels
0.25
0.20
0.15
0.10
0.05
0.00
3500
4000
4500
5000
5500
6000
6500

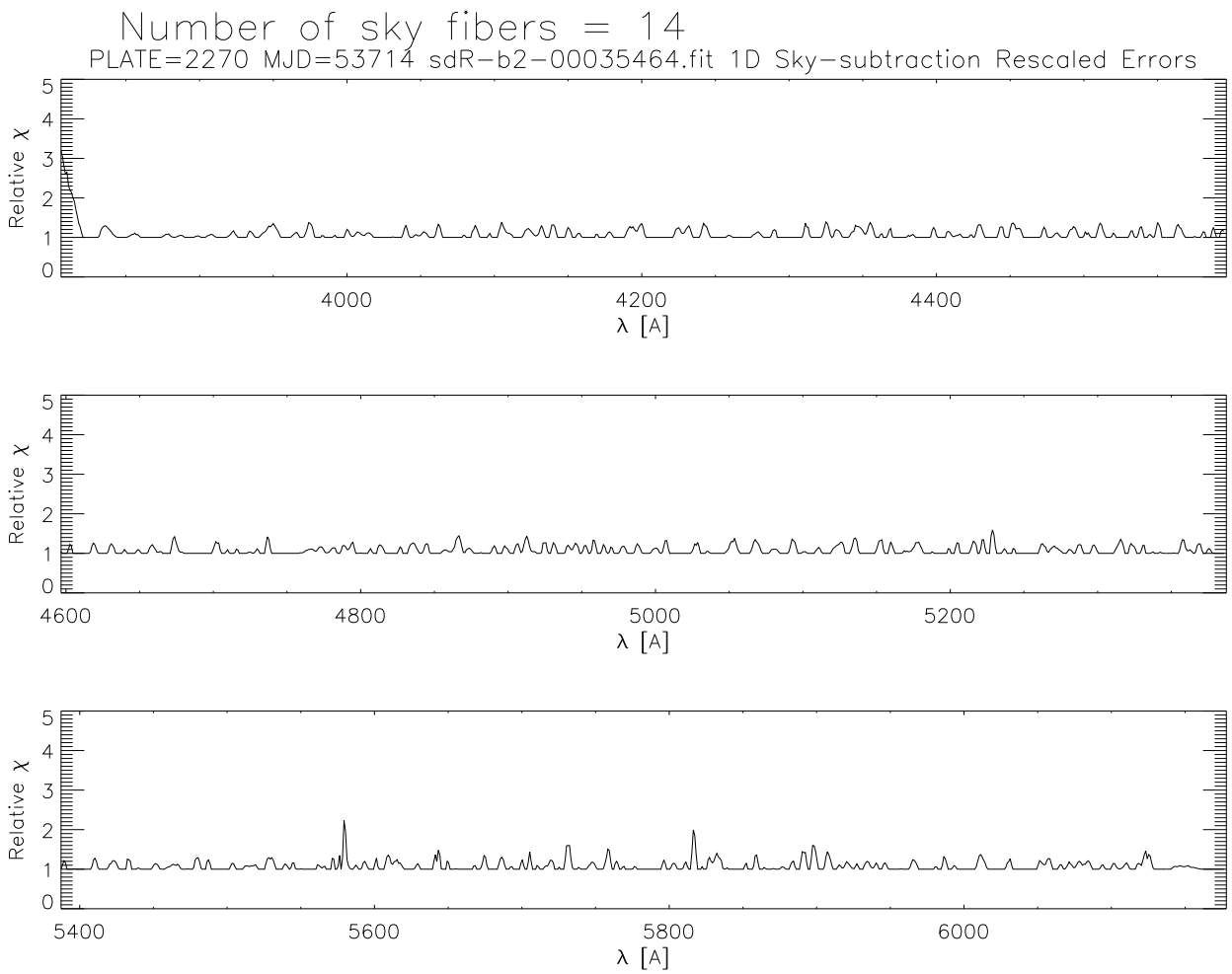
es= −0.0001

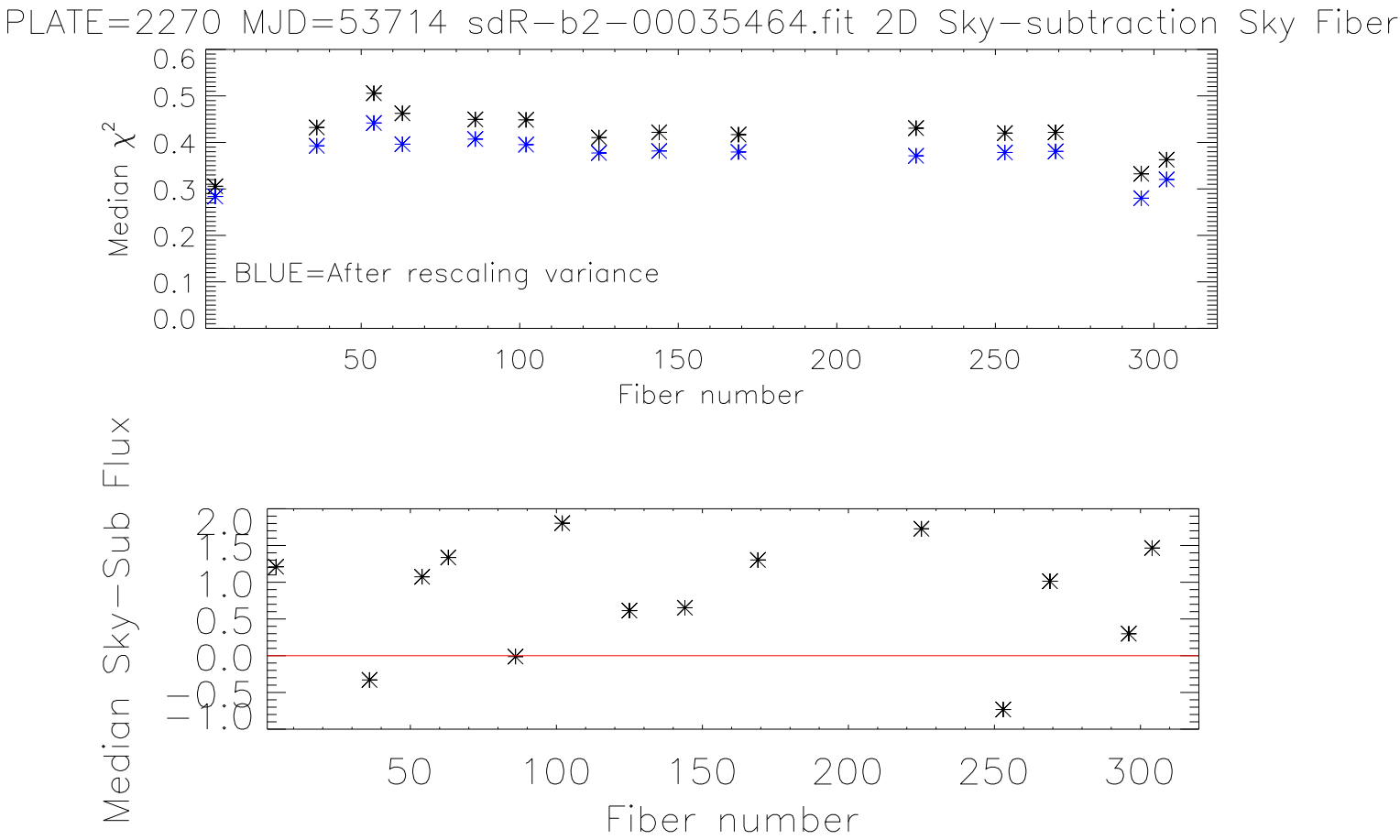

PLATE=2270 MJD=53714 Smooth superflat for sdR−b2−00035464.fit
1.5
1.0
0.5
0.0
1.02
1.01
1.00
0.99
0.98
0.97
0.96
4000
4500
5000
5500
6000
Wavelength (Å)

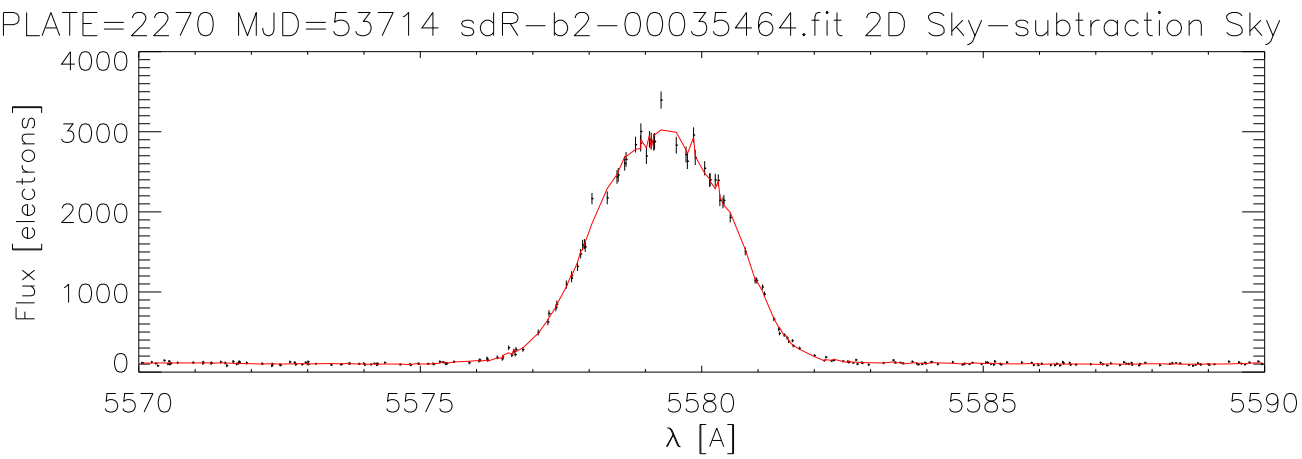

PLATE=2270 MJD=53714 sdR-b2-00035464.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

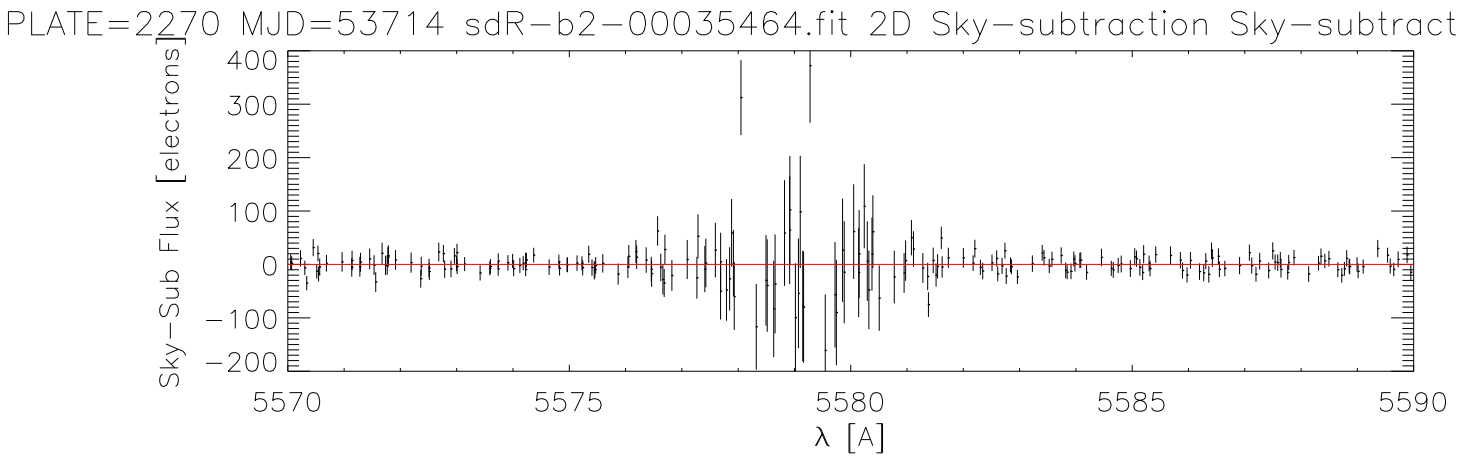

PLATE=2270 MJD=53714 sdR-b2-00035464.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

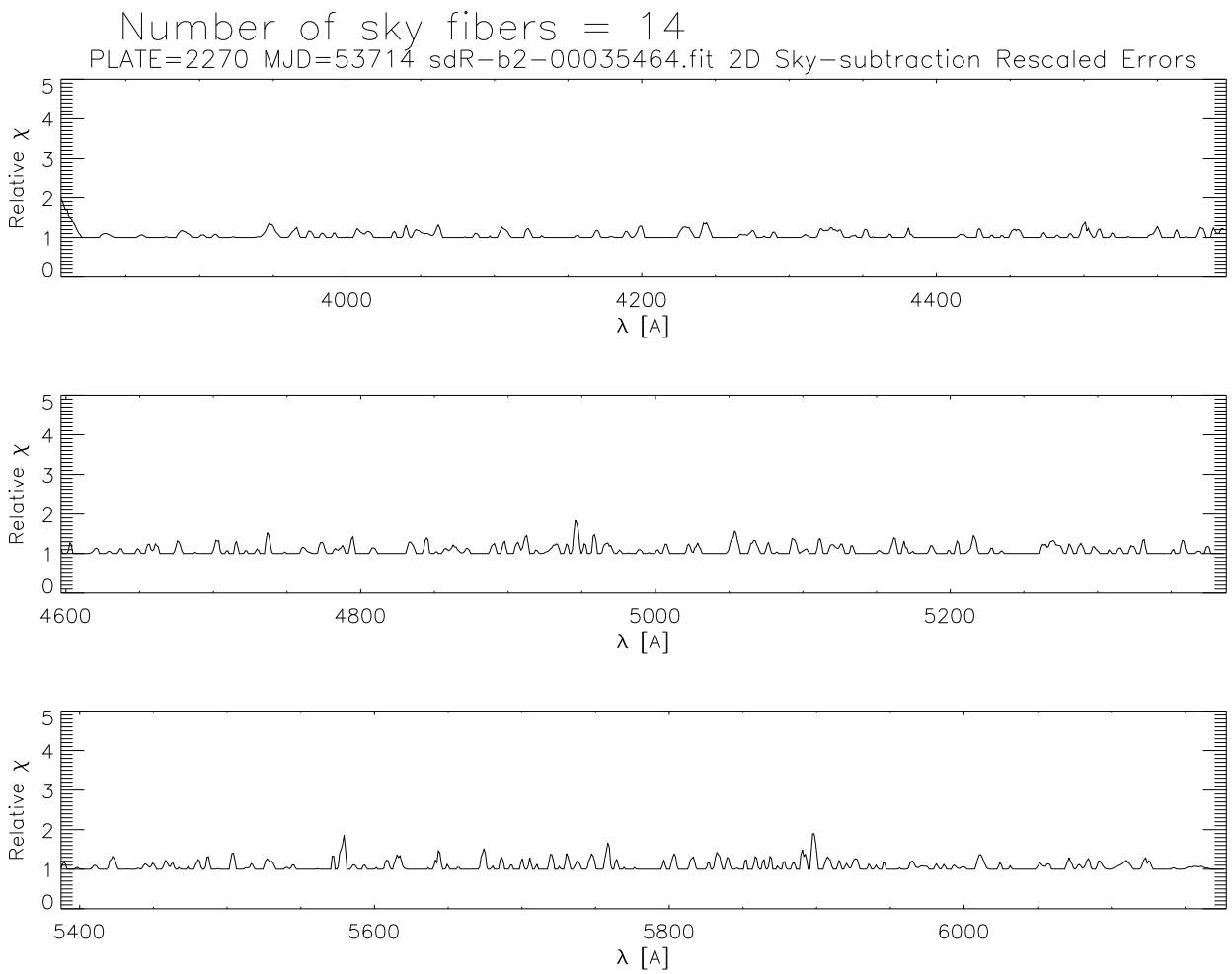

PLATE=2270 MJD=53714 sdR-b2-00035464.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
5570
5575
5580
5585
5590
λ [A]

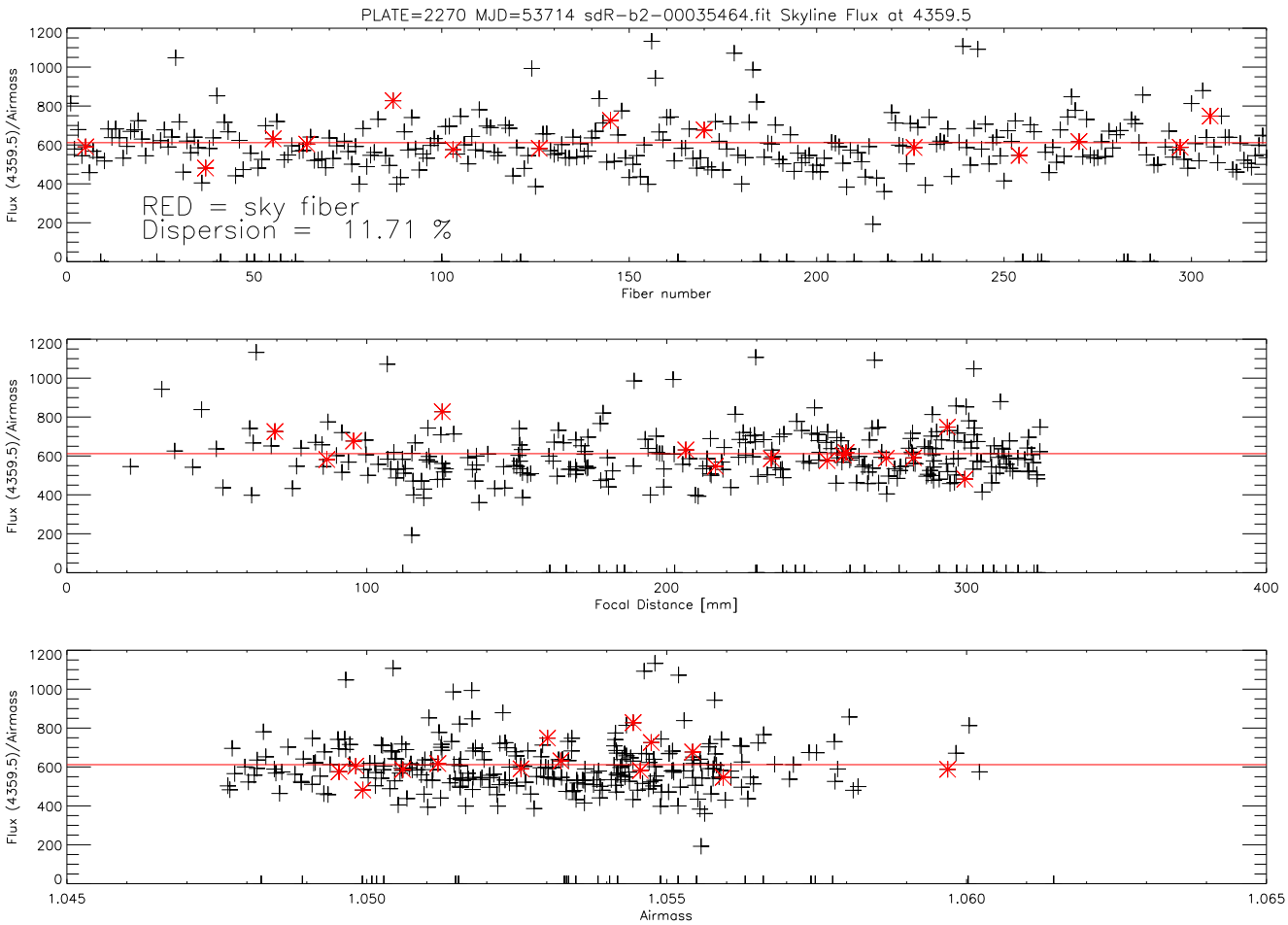

Number of sky fibers = 14
PLATE=2270 MJD=53714 sdR-b2-00035464.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

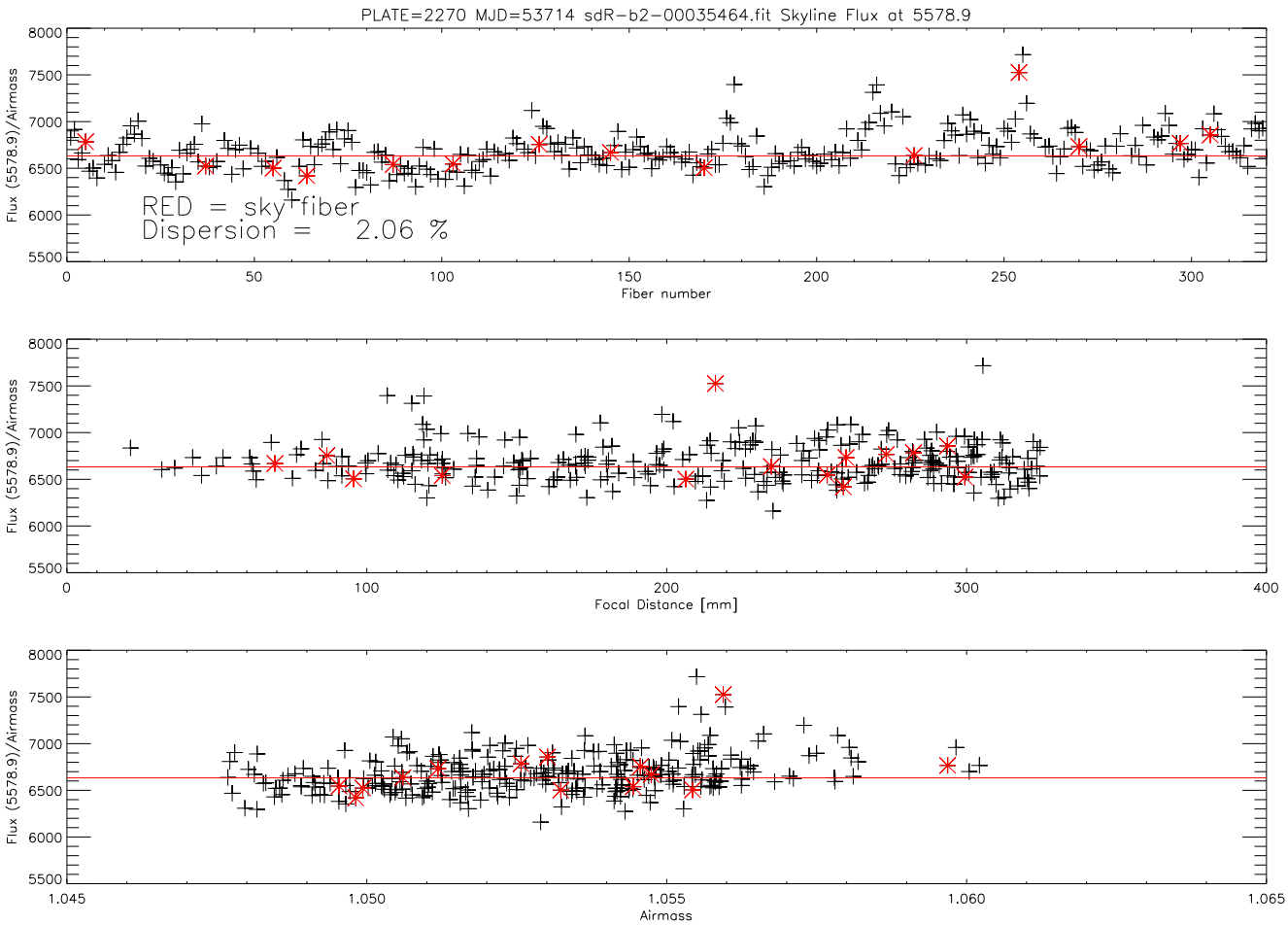

PLATE=2270 MJD=53714 sdR-b2-00035464.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

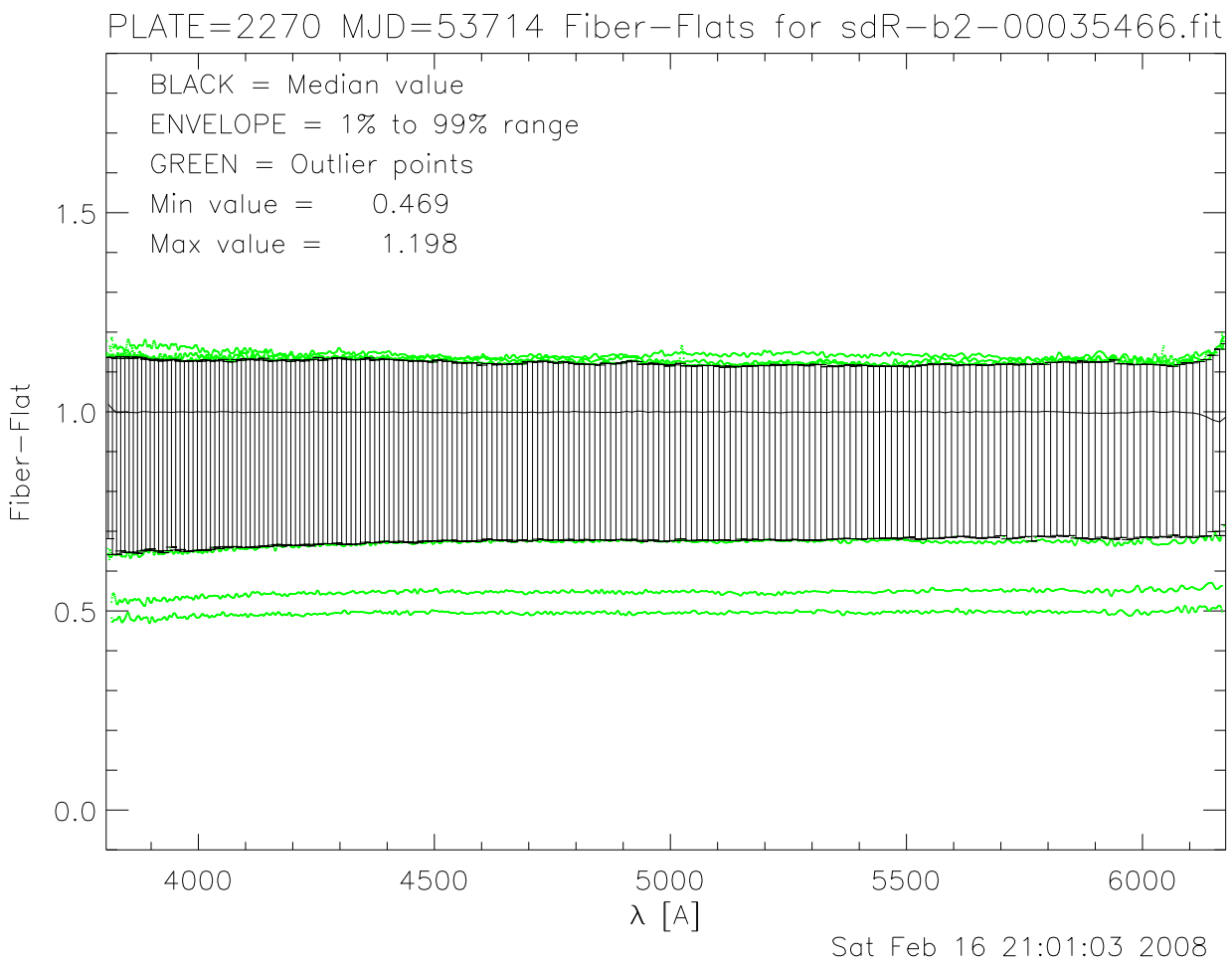

PLATE=2270 MJD=53714 sdR-b2-00035464.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

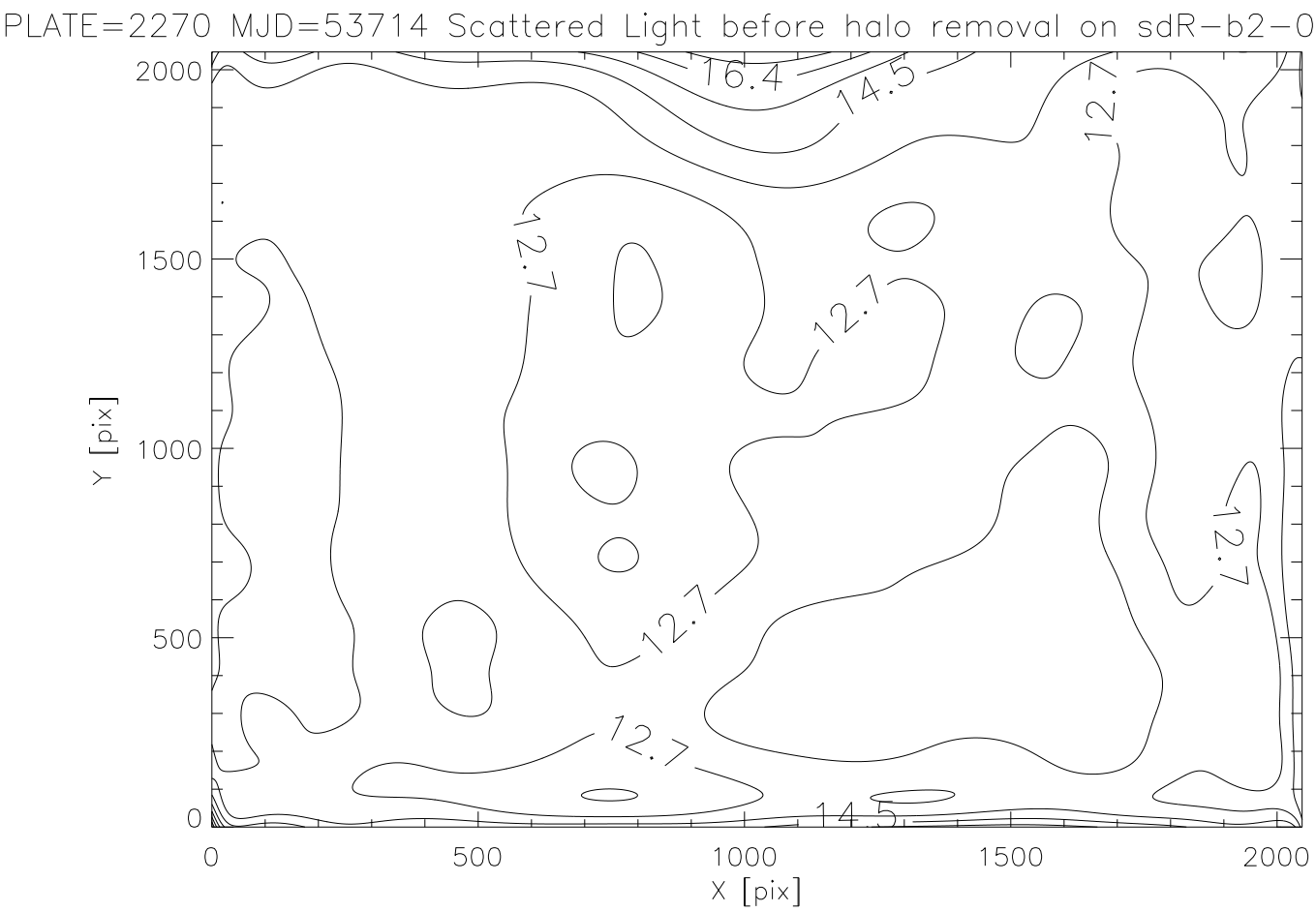

PLATE=2270 MJD=53714 sdR-b2-00035464.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

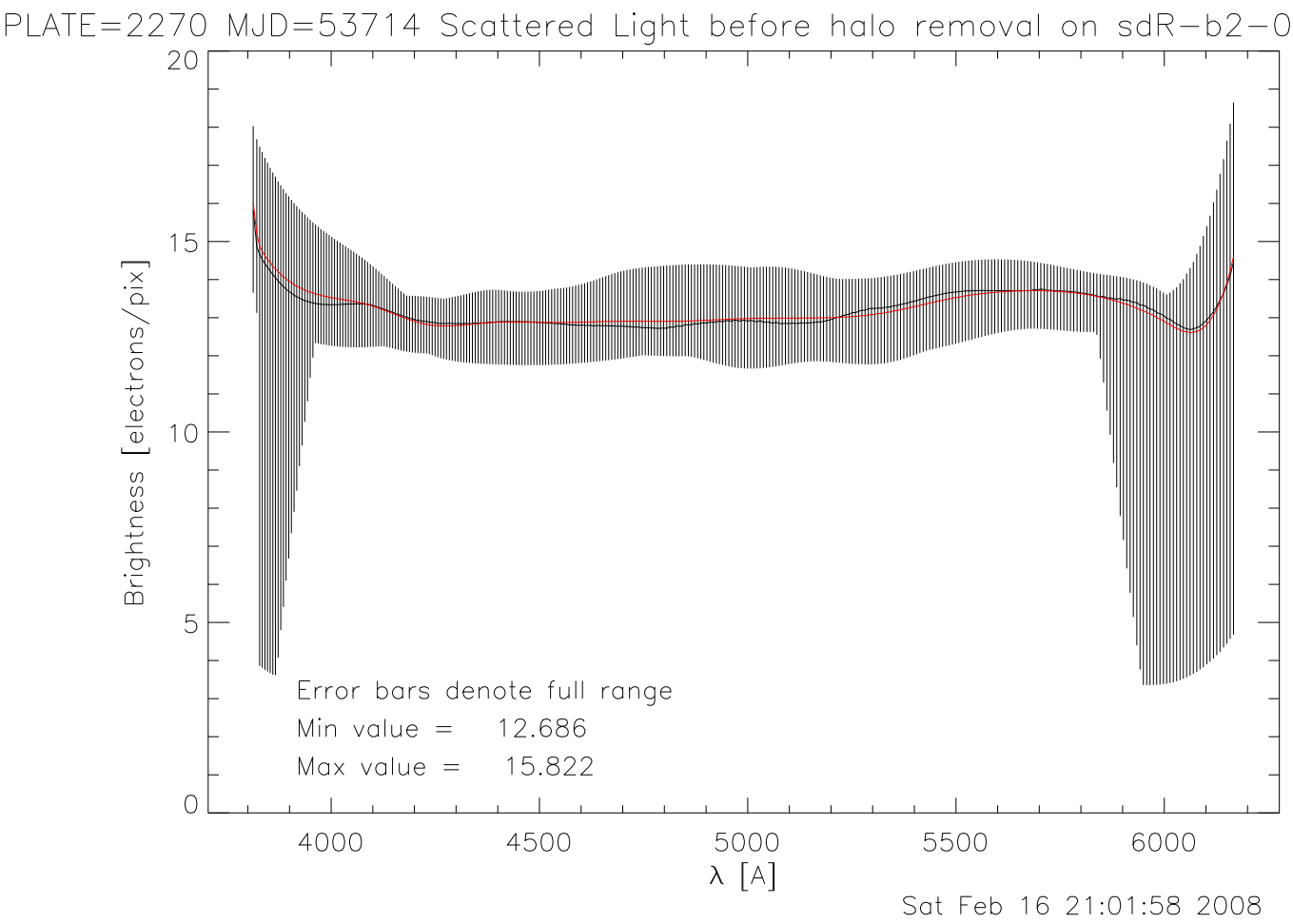

Number of sky fibers = 14
PLATE=2270 MJD=53714 sdR-b2-00035464.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

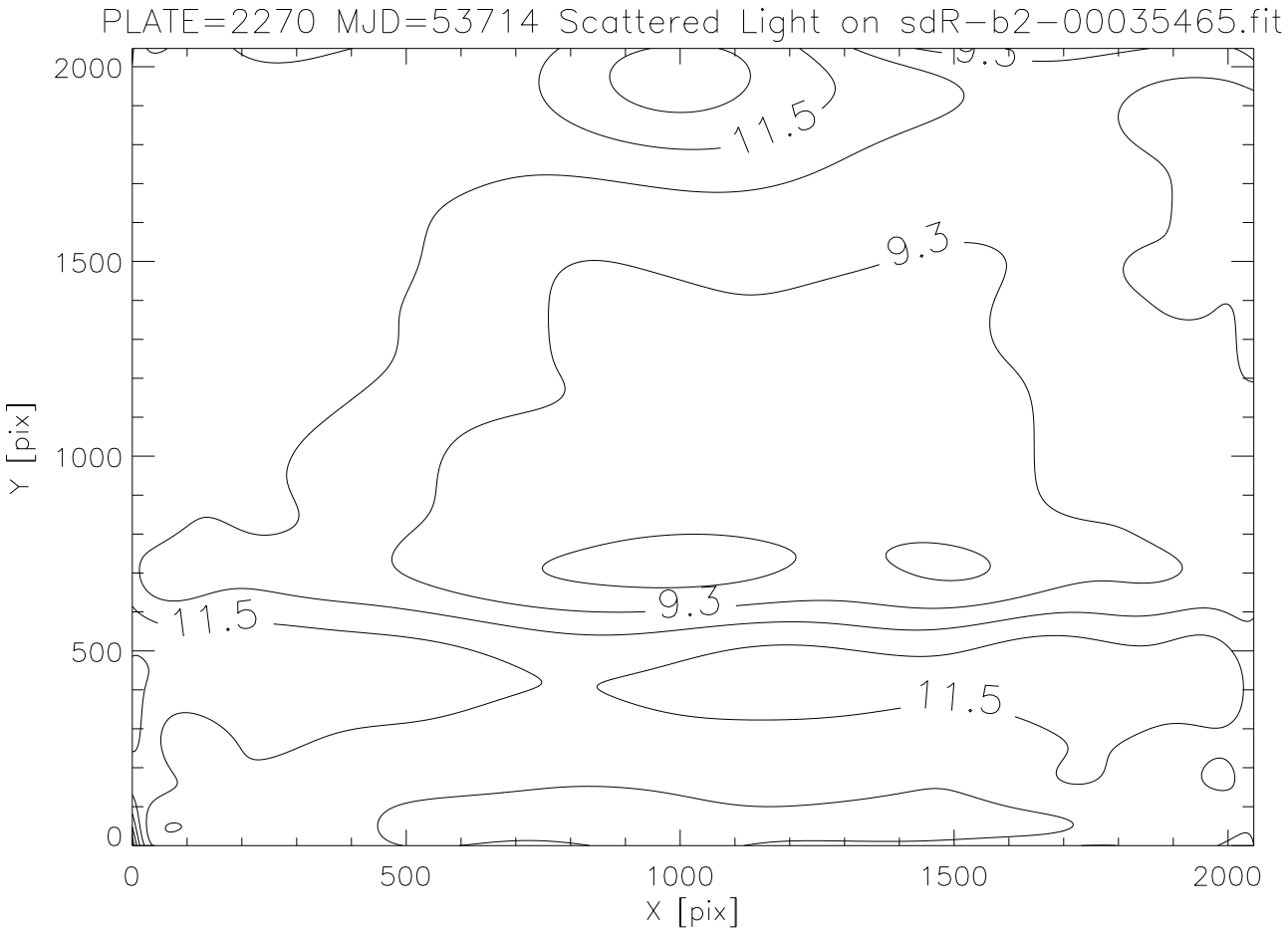

PLATE=2270 MJD=53714 sdR-b2-00035464.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 11.71 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

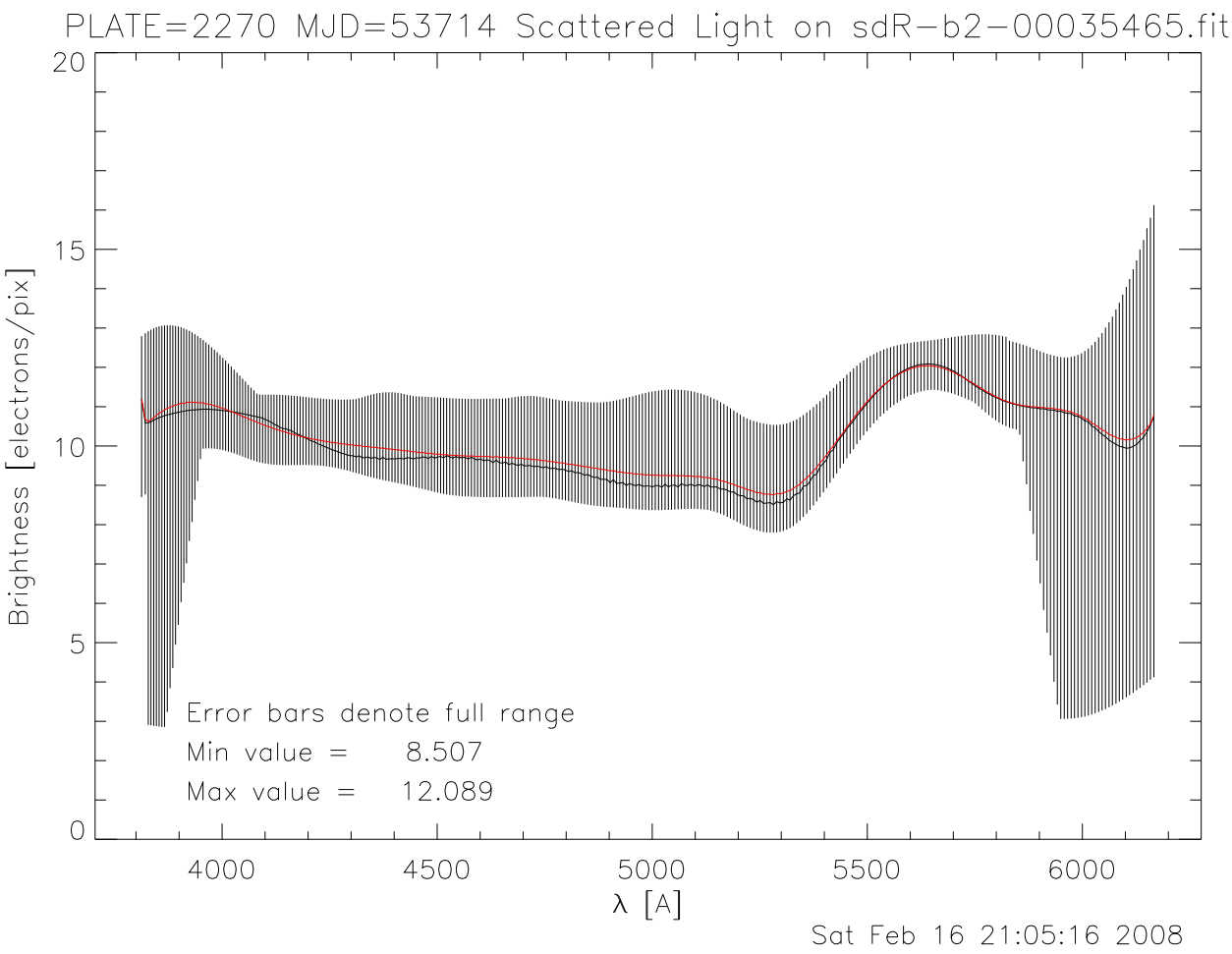

PLATE=2270 MJD=53714 sdR-b2-00035464.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.06 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

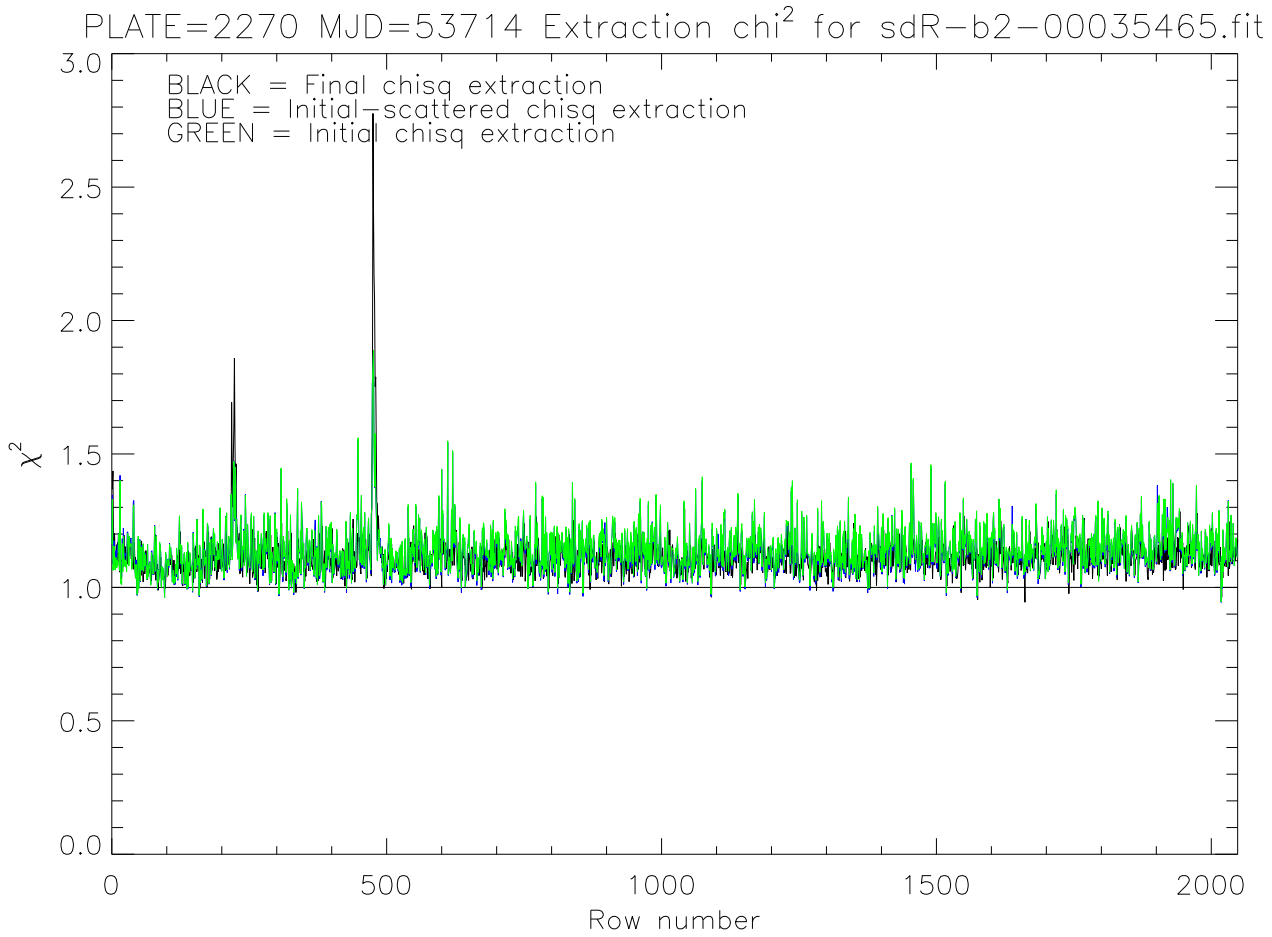

PLATE=2270 MJD=53714 Fiber-Flats for sdR-b2-00035466.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.469
Max value = 1.198
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 21:01:03 2008

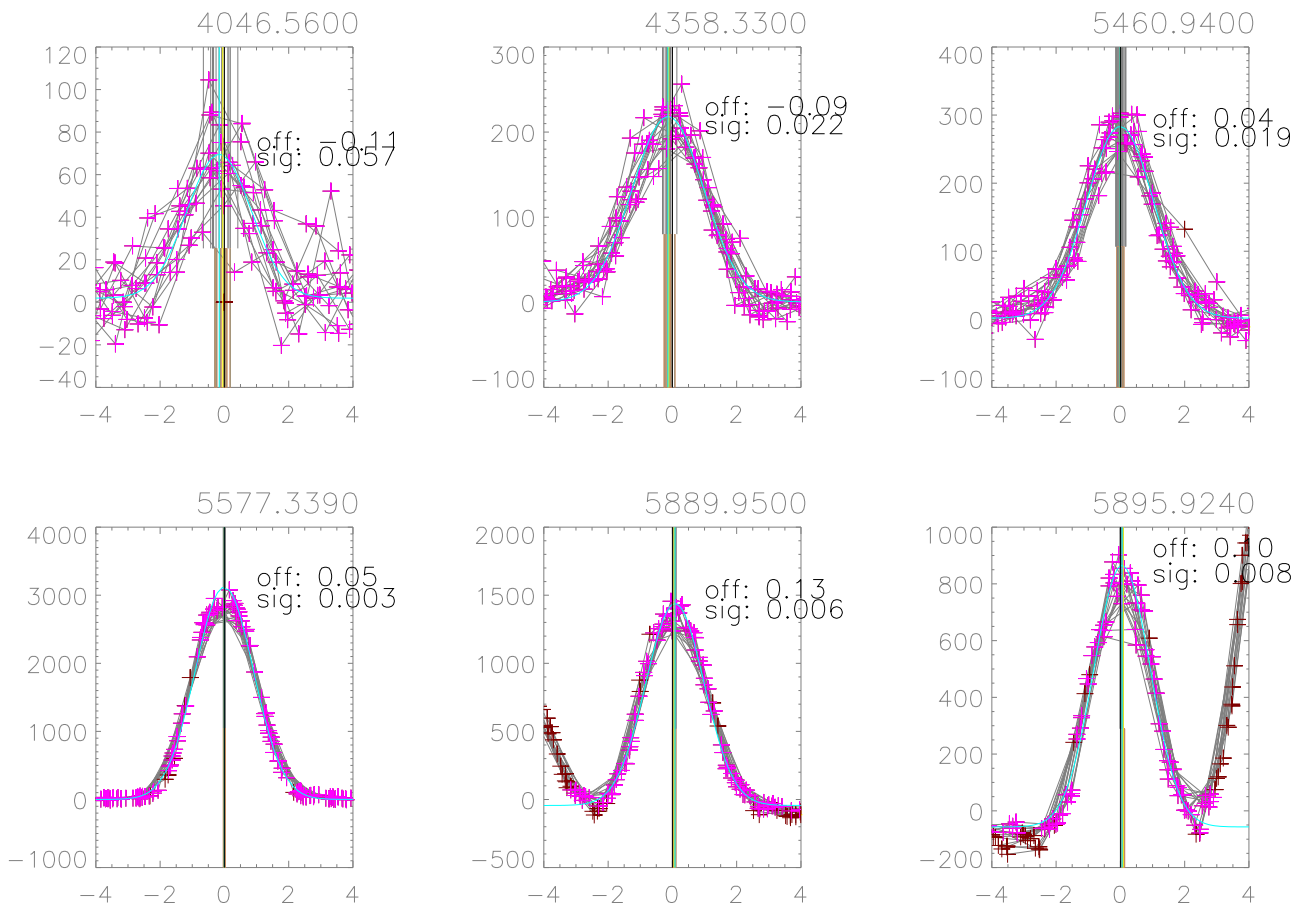

PLATE=2270 MJD=53714 Scattered Light before halo removal on sdR-b2-00035465.f
16.4
14.5
12.7
12.7
12.7
12.7
12.7
12.7
14.5
Y [pix]
X [pix]
0
500
1000
1500
2000

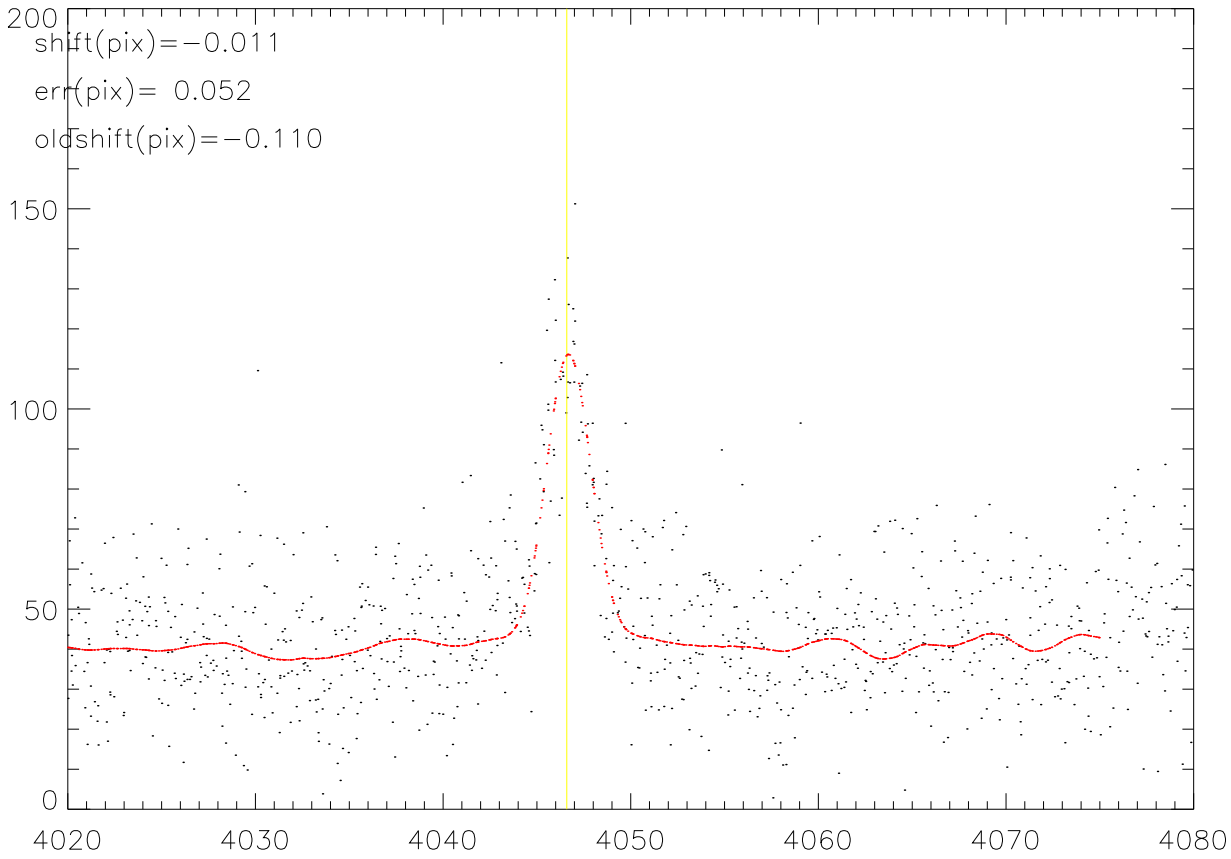

PLATE=2270 MJD=53714 Scattered Light before halo removal on sdR-b2-00035465.f
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 12.686
Max value = 15.822
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 21:01:58 2008

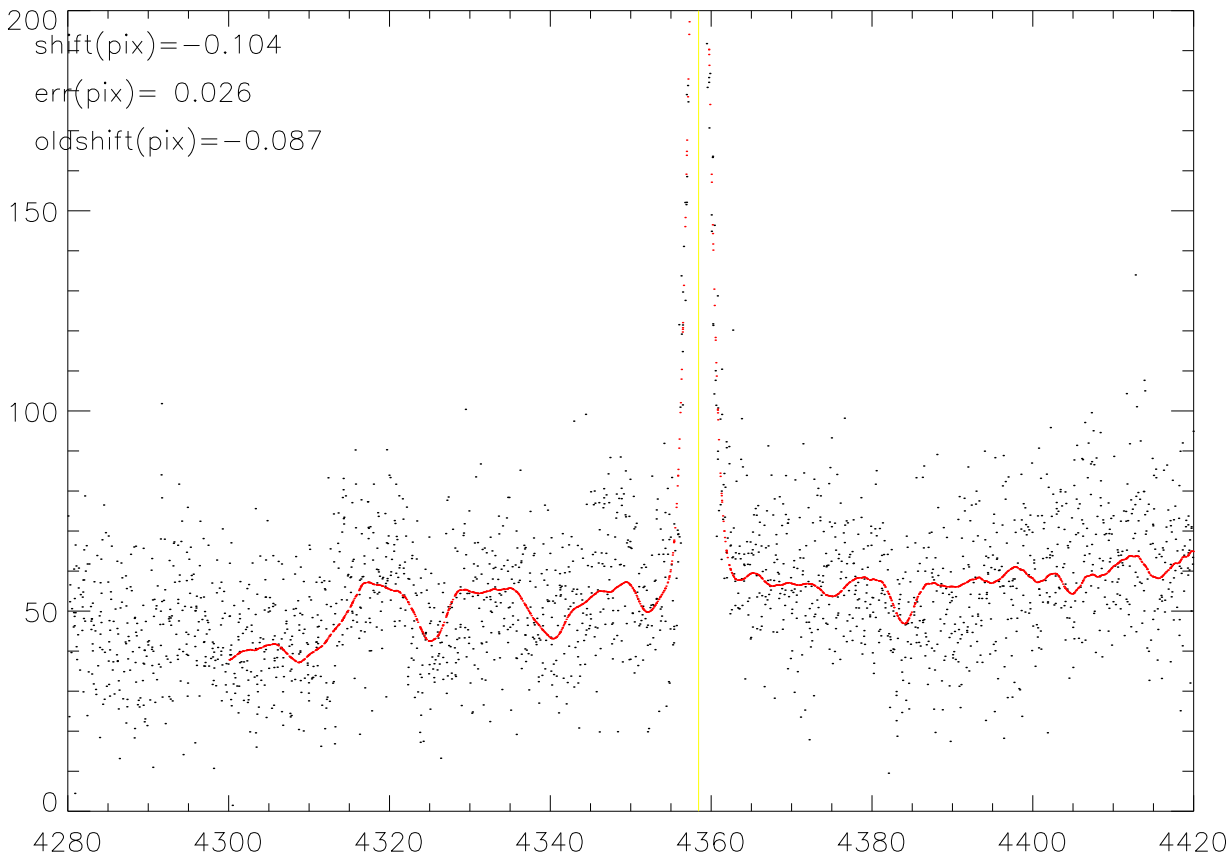

PLATE=2270 MJD=53714 Scattered Light on sdR-b2-00035465.fit
11.5
9.3
9.3
11.5
11.5
0
0
0
500
1000
1500
2000
500
1000
1500
2000
Y [pix]
X [pix]

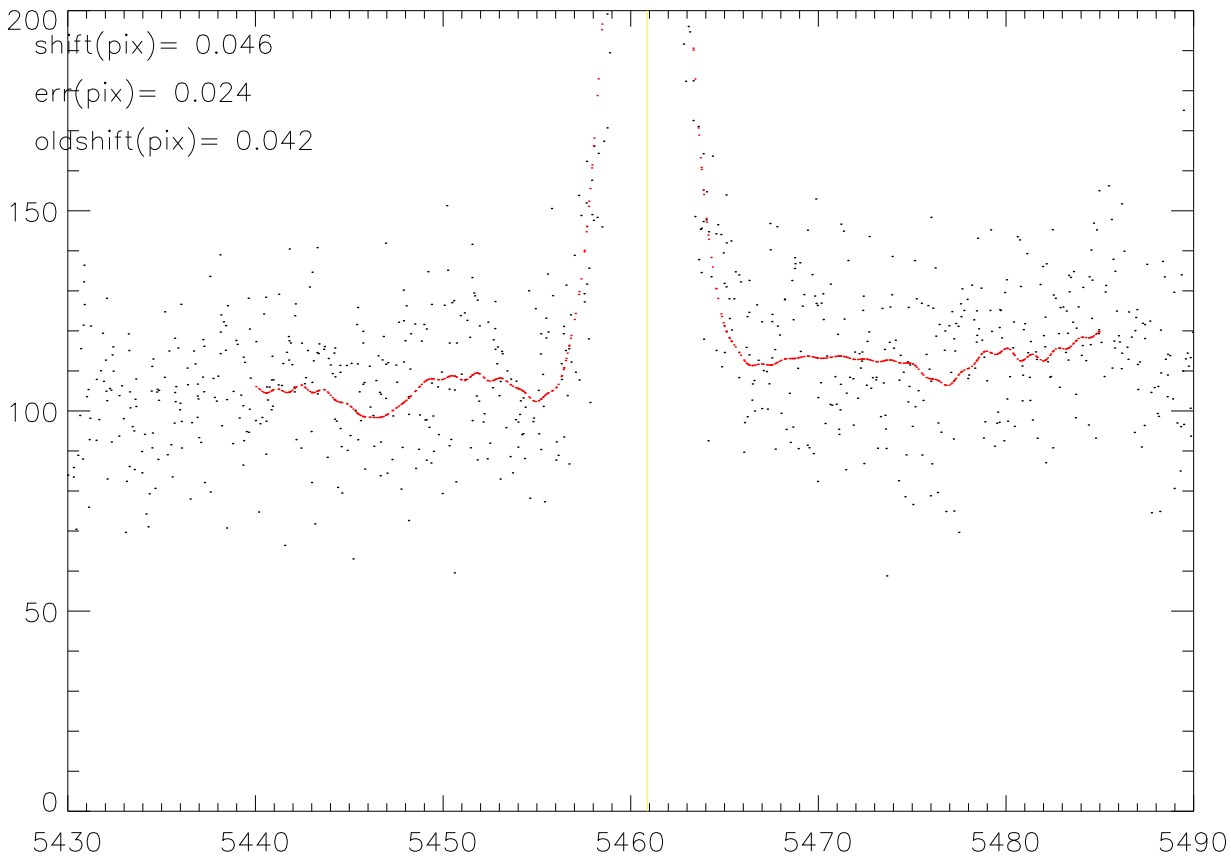

PLATE=2270 MJD=53714 Scattered Light on sdR-b2-00035465.fit
Brightness [electrons/pix]
20
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 8.507
Max value = 12.089
Sat Feb 16 21:05:16 2008

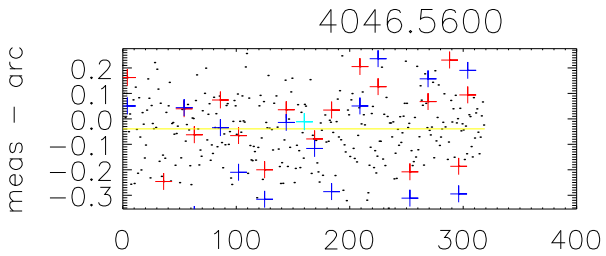

PLATE=2270 MJD=53714 Extraction chi^2 for sdR-b2-00035465.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

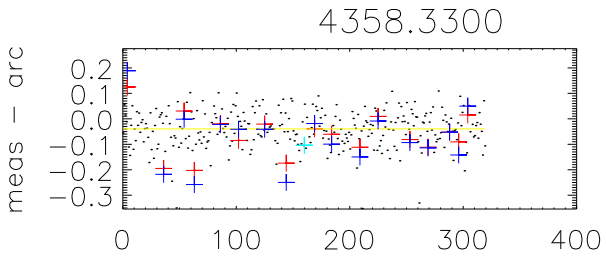

4046.5600
off: −0.11
sig: 0.057
4358.3300
off: −0.09
sig: 0.022
5460.9400
off: 0.04
sig: 0.019
5577.3390
off: 0.05
sig: 0.003
5889.9500
off: 0.13
sig: 0.006
5895.9240
off: 0.10
sig: 0.008

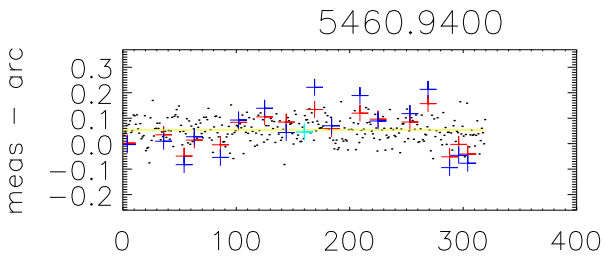

shift(pix)=−0.011
err(pix)= 0.052
oldshift(pix)=−0.110
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

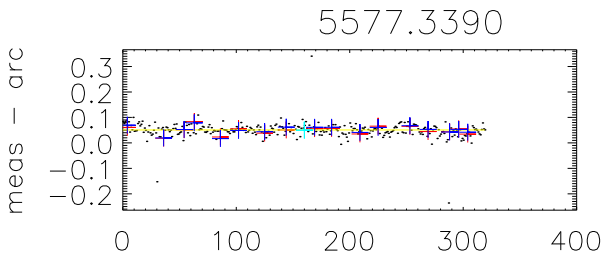

shift(pix)=−0.104
err(pix)= 0.026
oldshift(pix)=−0.087
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

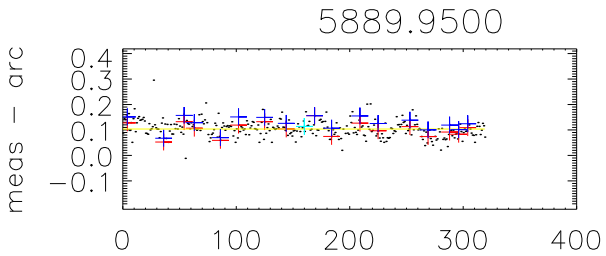

shift(pix)= 0.046
err(pix)= 0.024
oldshift(pix)= 0.042
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

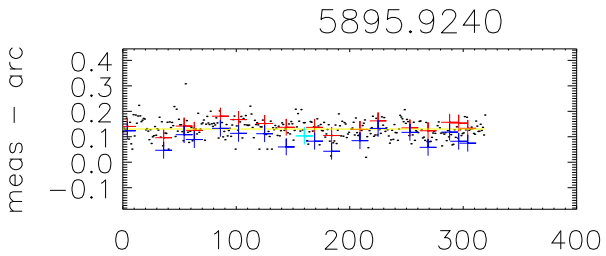

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

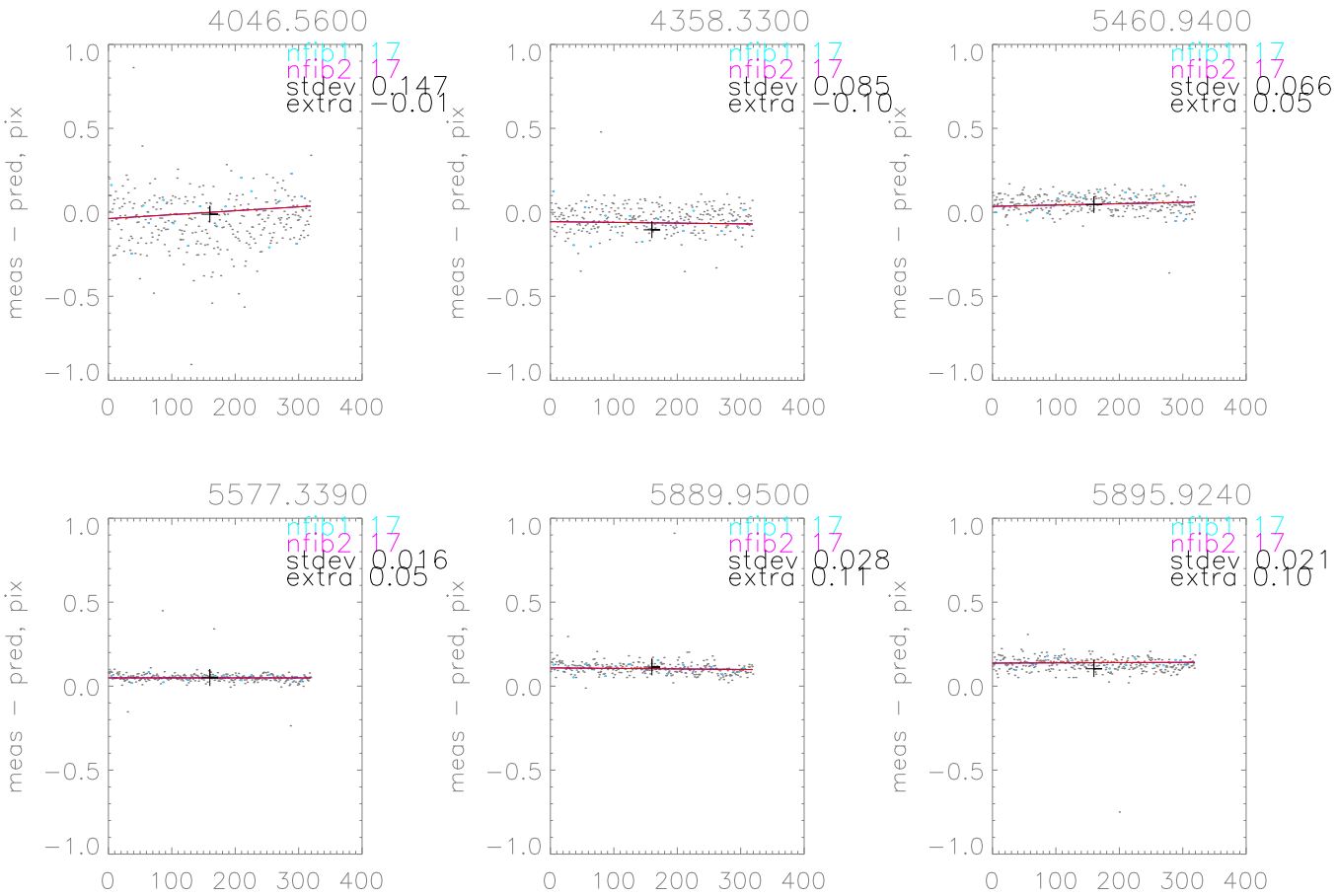

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

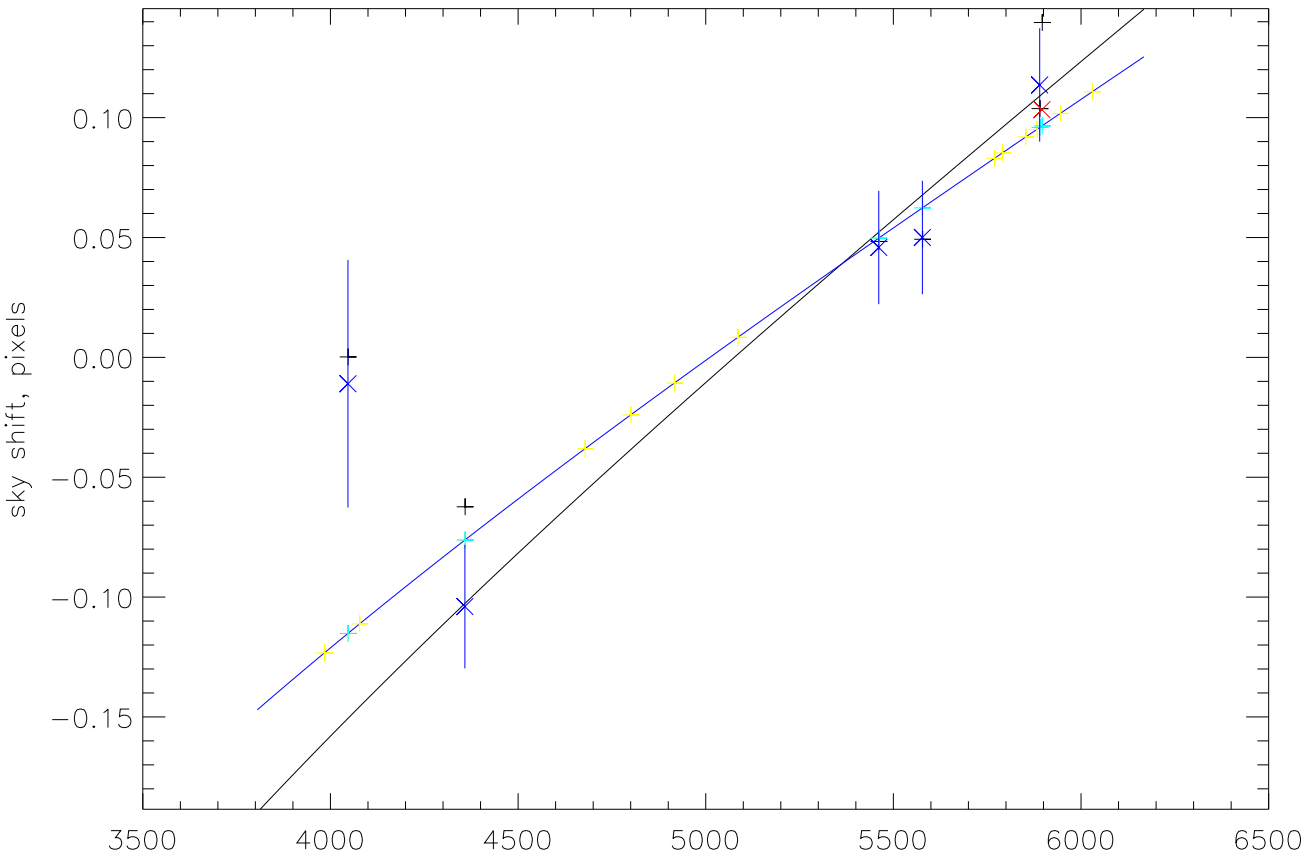

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

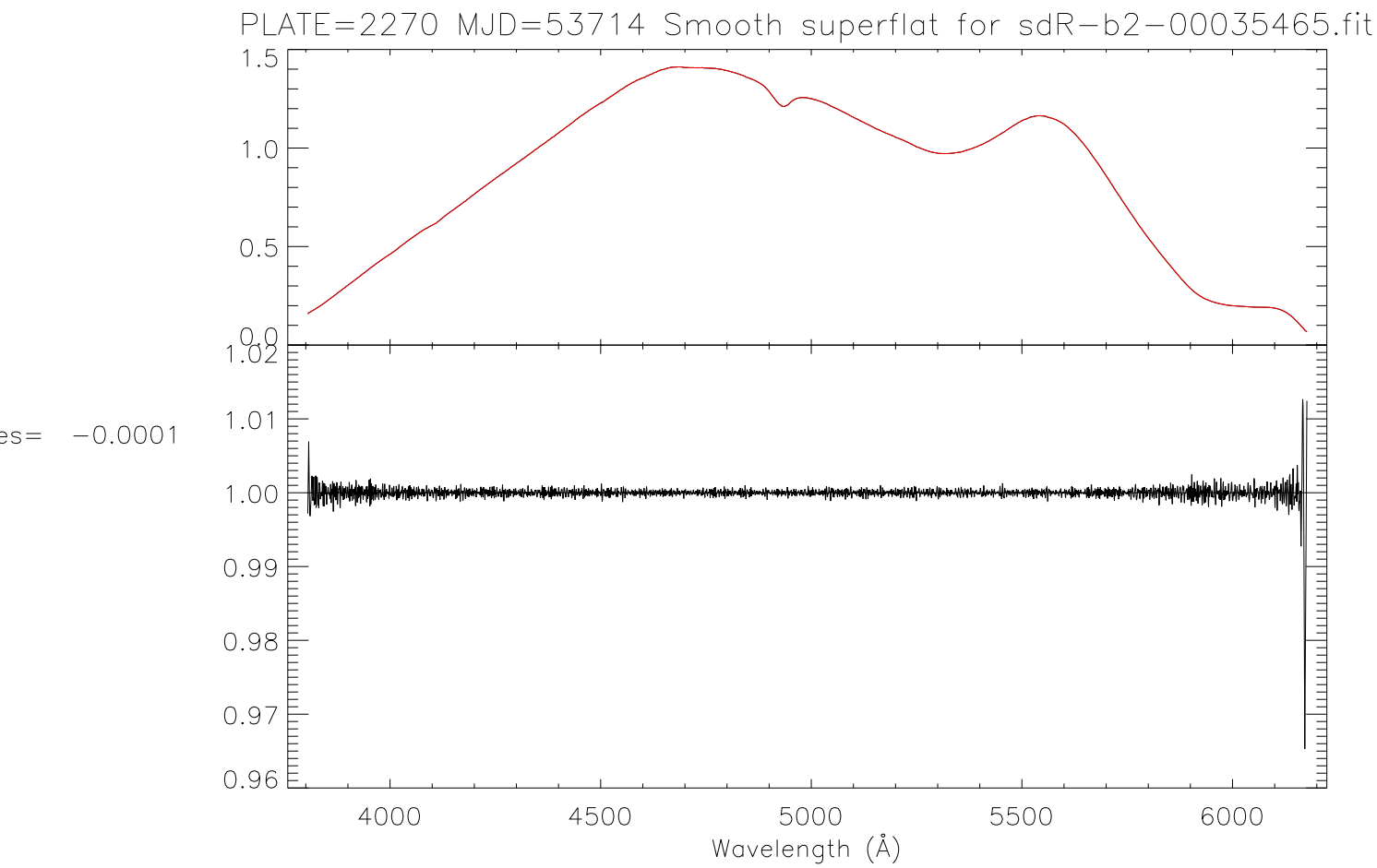

5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

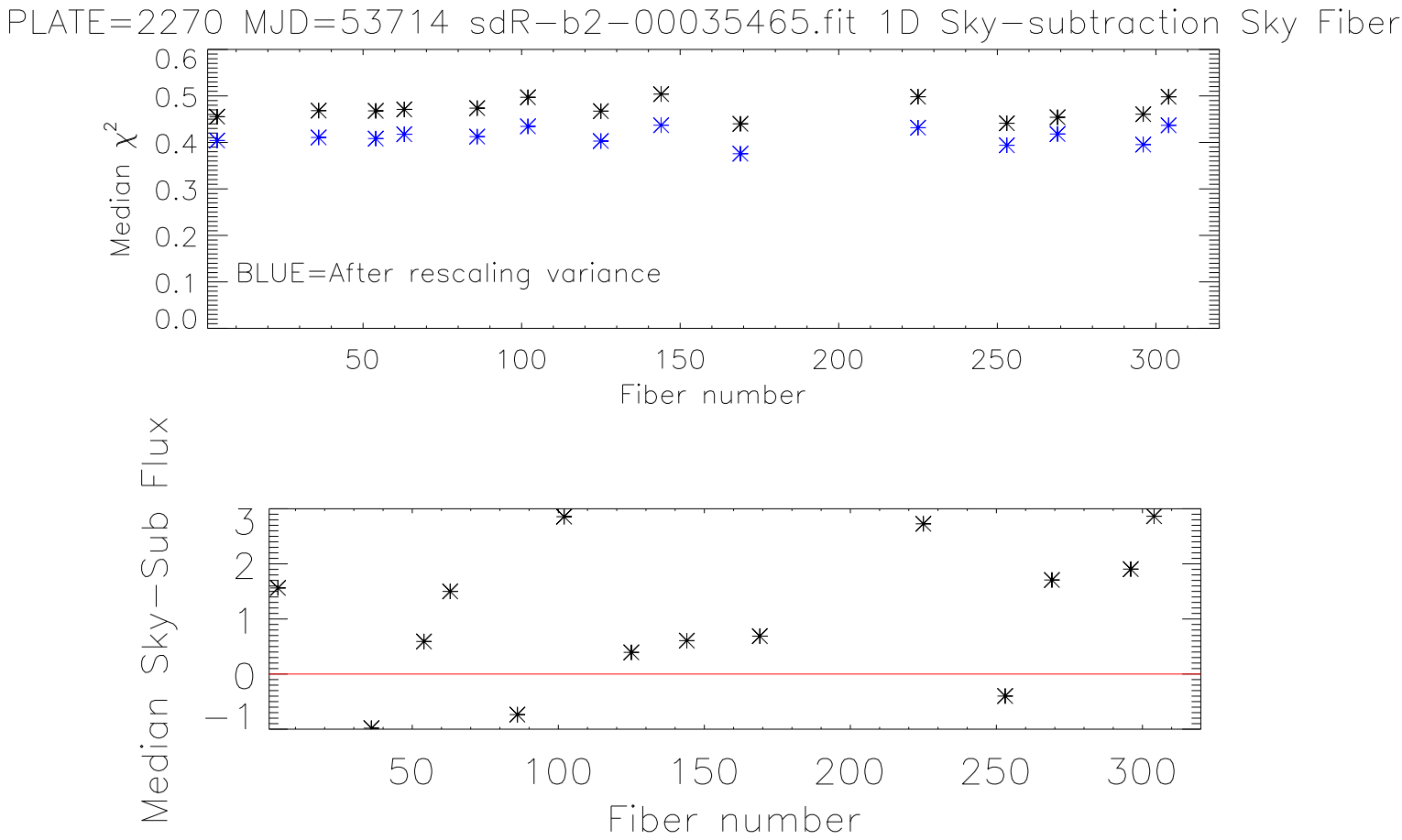

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

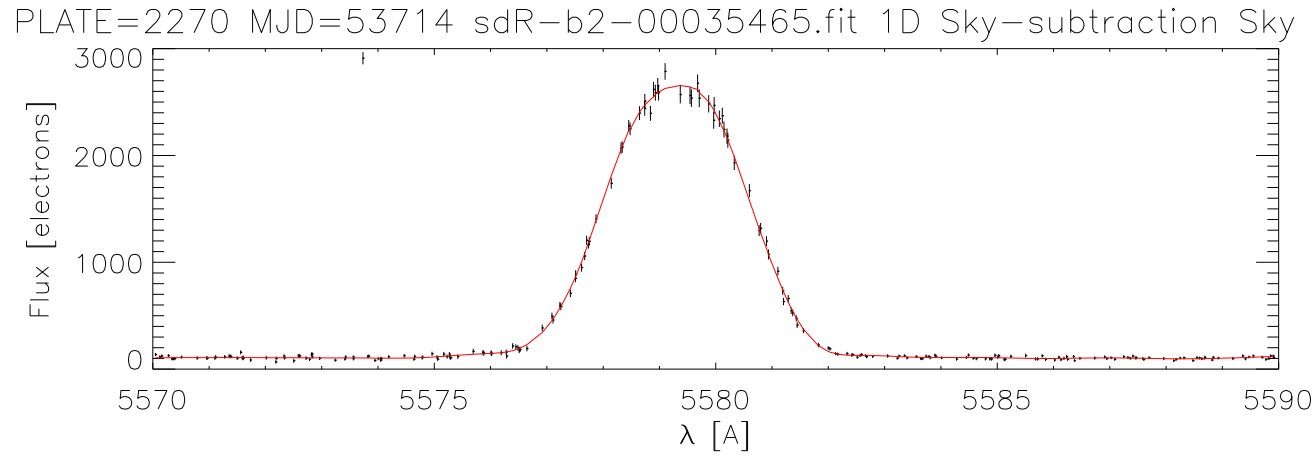

4046.5600
nfib1 17
nfib2 17
stdev 0.147
extra −0.01
4358.3300
nfib1 17
nfib2 17
stdev 0.085
extra −0.10
5460.9400
nfib1 17
nfib2 17
stdev 0.066
extra 0.05
5577.3390
nfib1 17
nfib2 17
stdev 0.016
extra 0.05
5889.9500
nfib1 17
nfib2 17
stdev 0.028
extra 0.11
5895.9240
nfib1 17
nfib2 17
stdev 0.021
extra 0.10
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

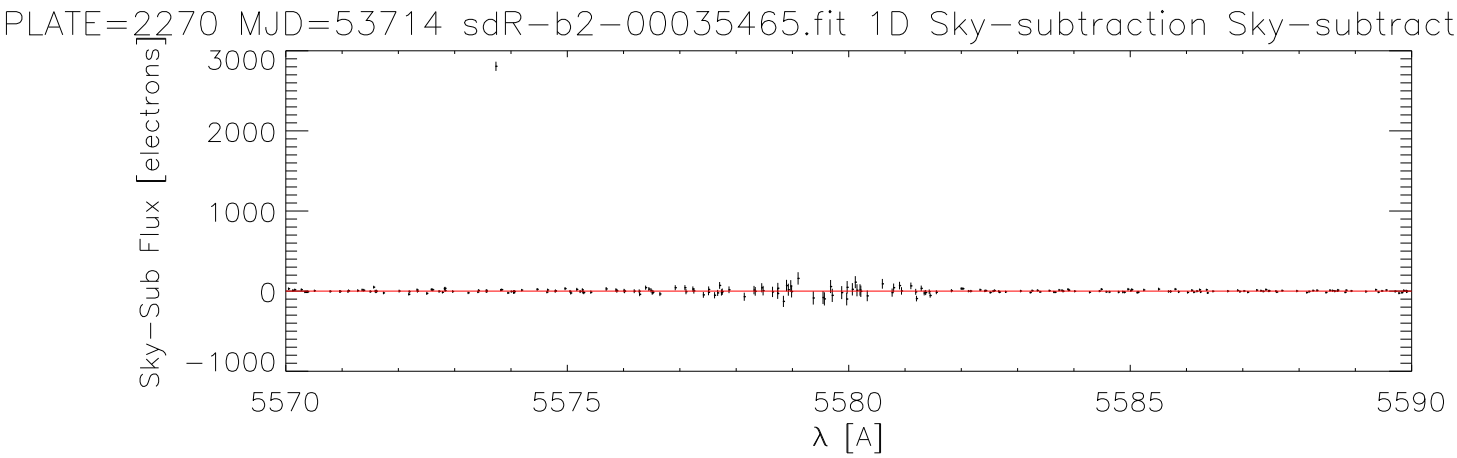

sky shift, pixels
0.10
0.05
0.00
−0.05
−0.10
−0.15
3500
4000
4500
5000
5500
6000
6500

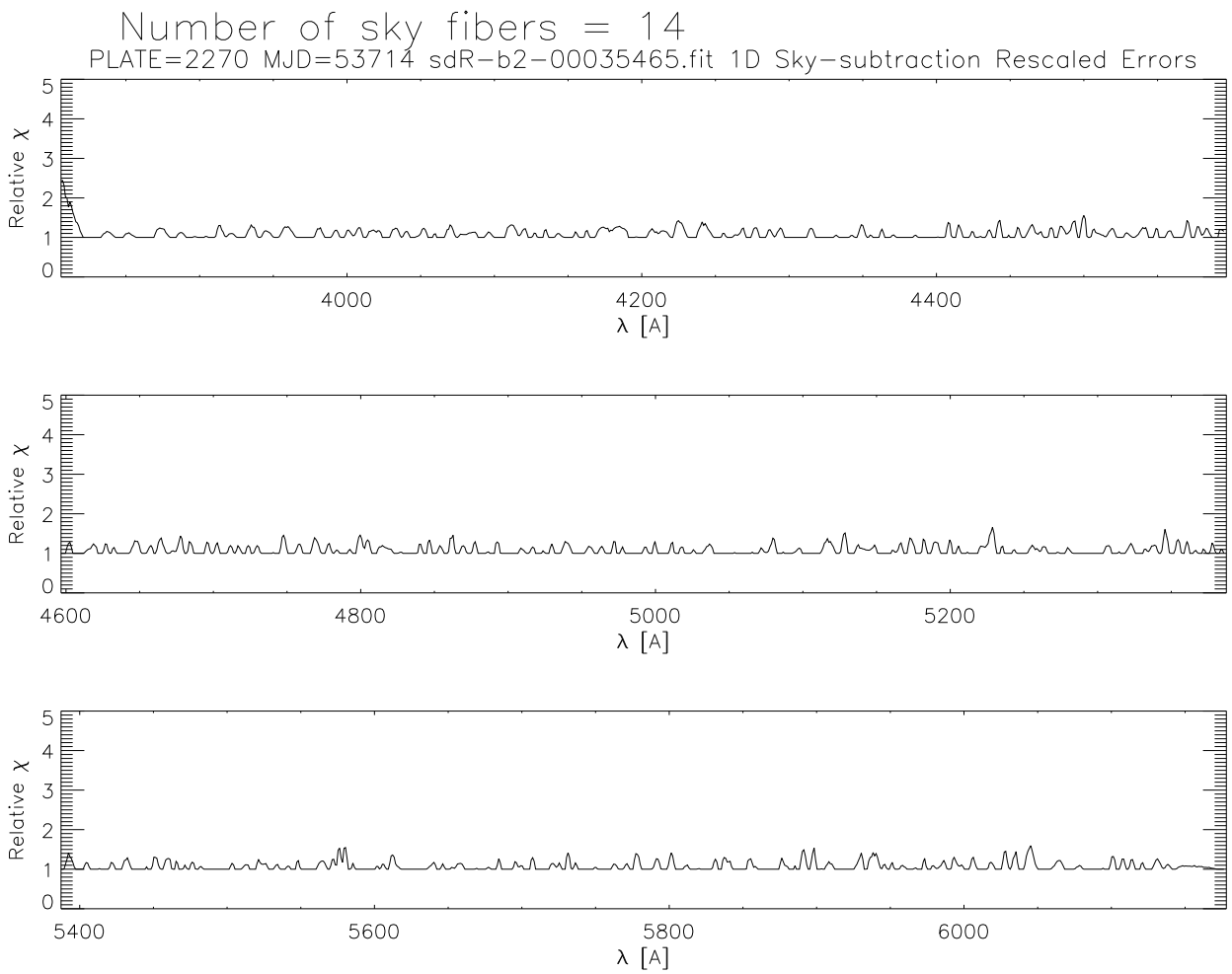

PLATE=2270 MJD=53714 Smooth superflat for sdR-b2-00035465.fit
1.5
1.0
0.5
0.0
1.02
1.01
1.00
0.99
0.98
0.97
0.96
4000
4500
5000
5500
6000
Wavelength (Å)

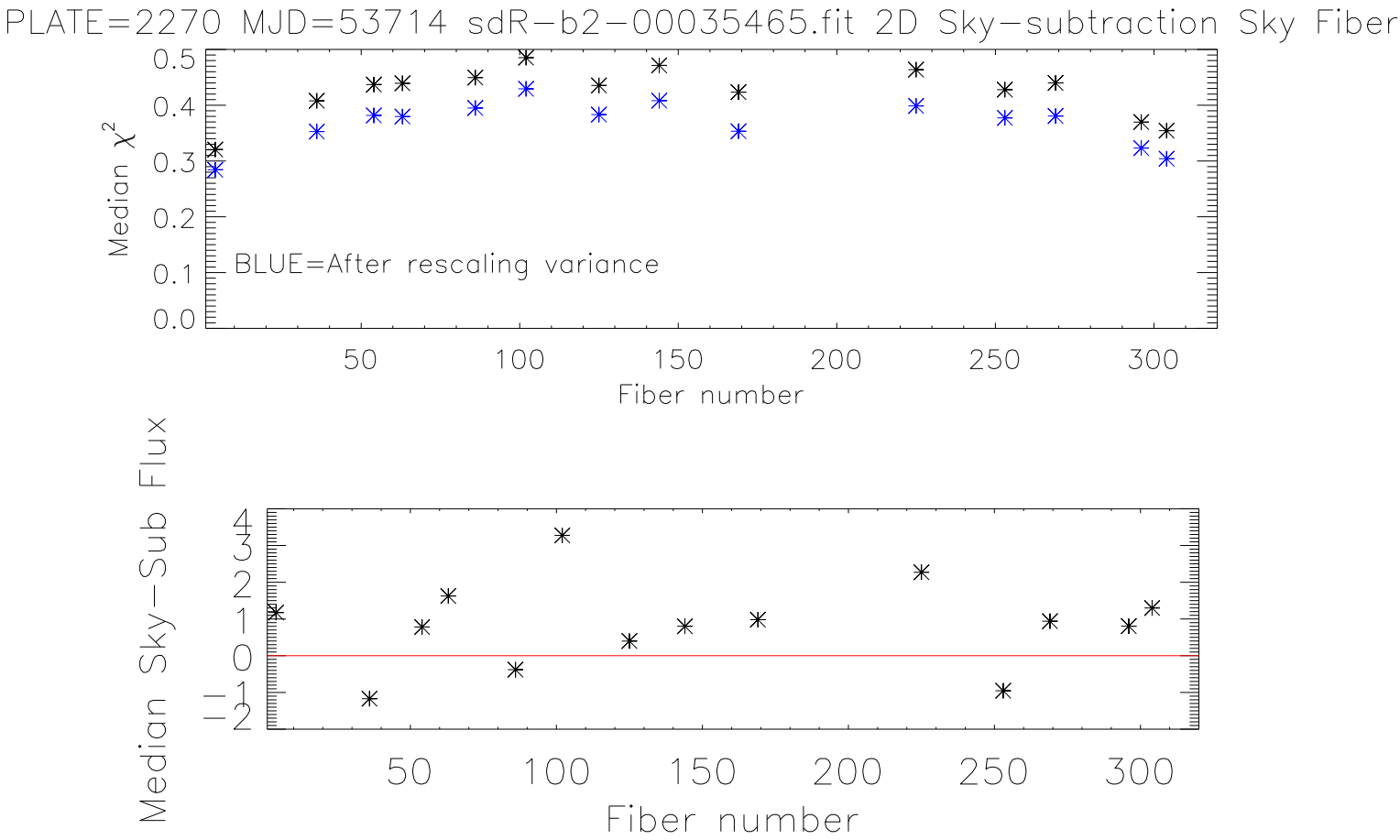
es= −0.0001

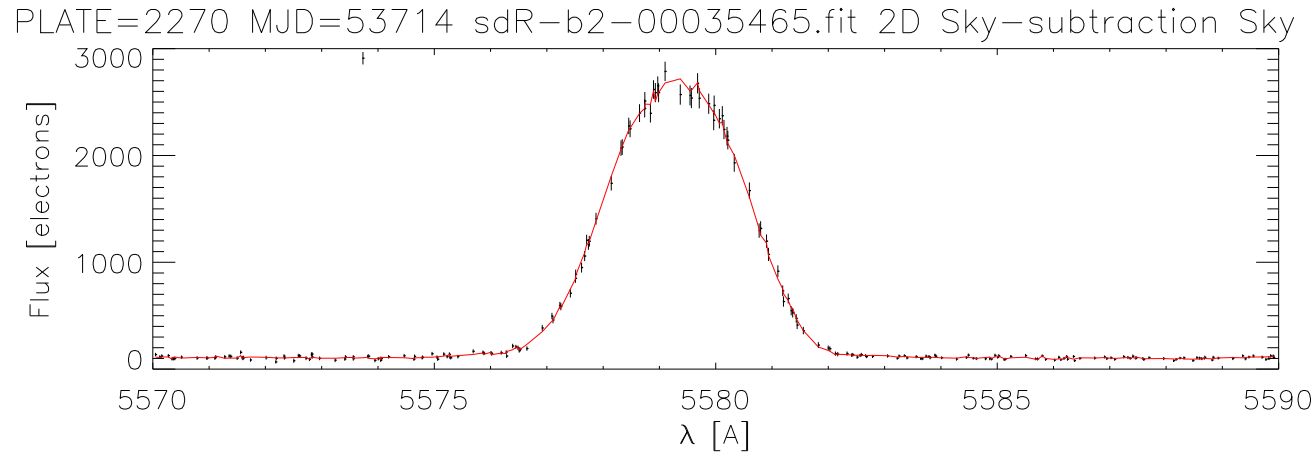

PLATE=2270 MJD=53714 sdR-b2-00035465.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

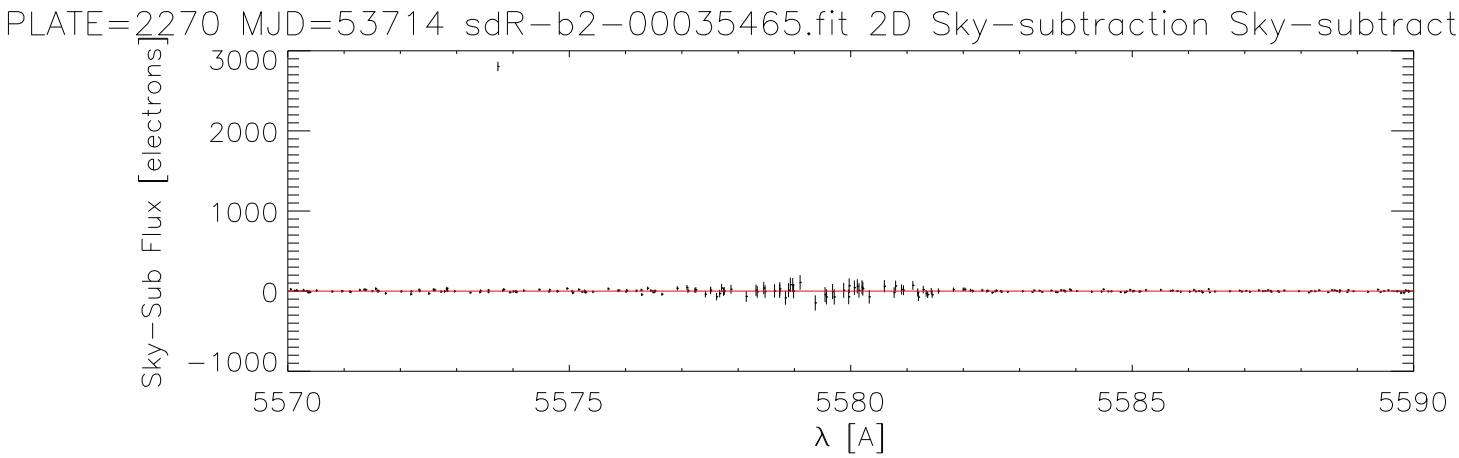

PLATE=2270 MJD=53714 sdR-b2-00035465.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

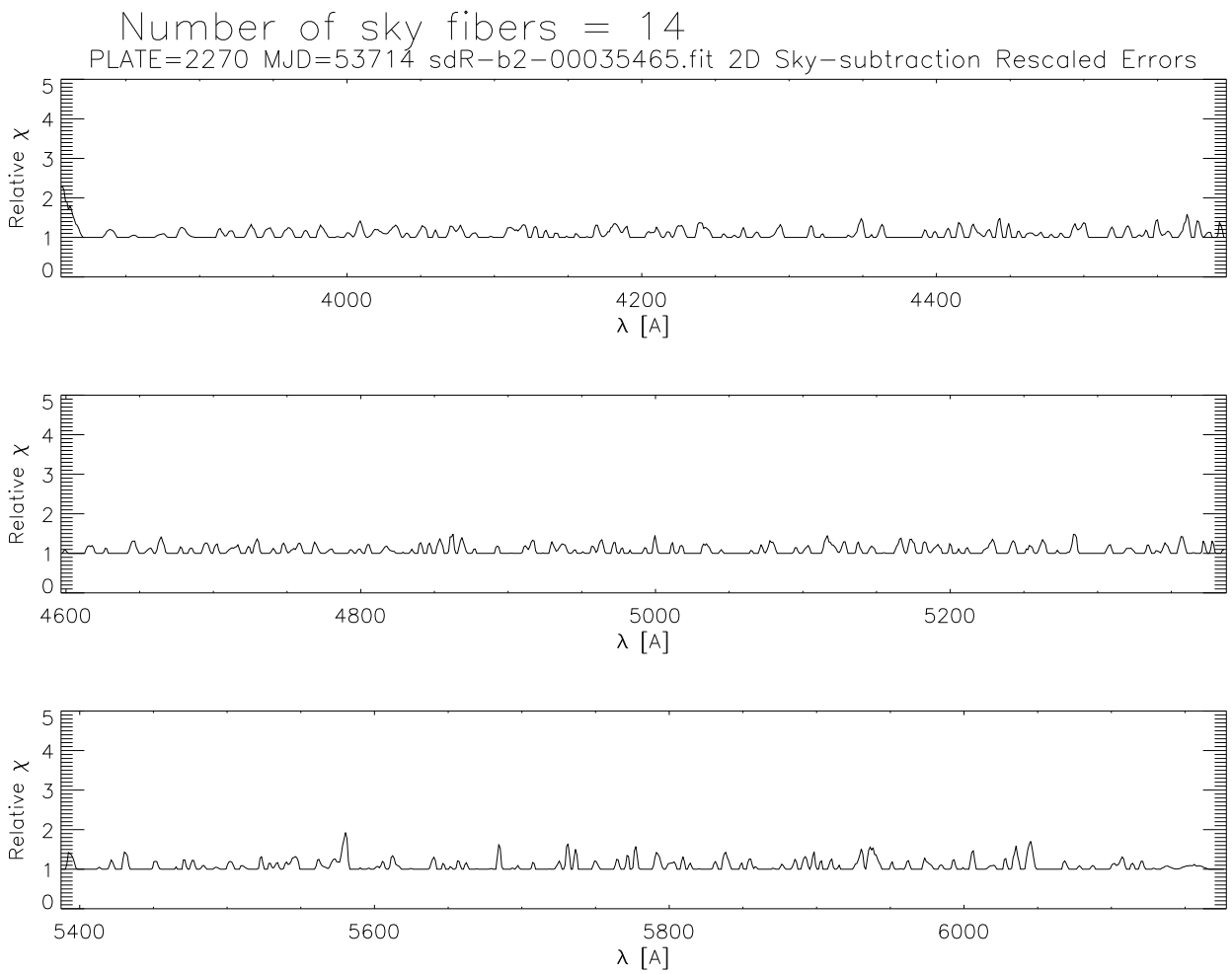

PLATE=2270 MJD=53714 sdR-b2-00035465.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
3000
2000
1000
0
-1000
5570
5575
5580
5585
5590
λ [A]

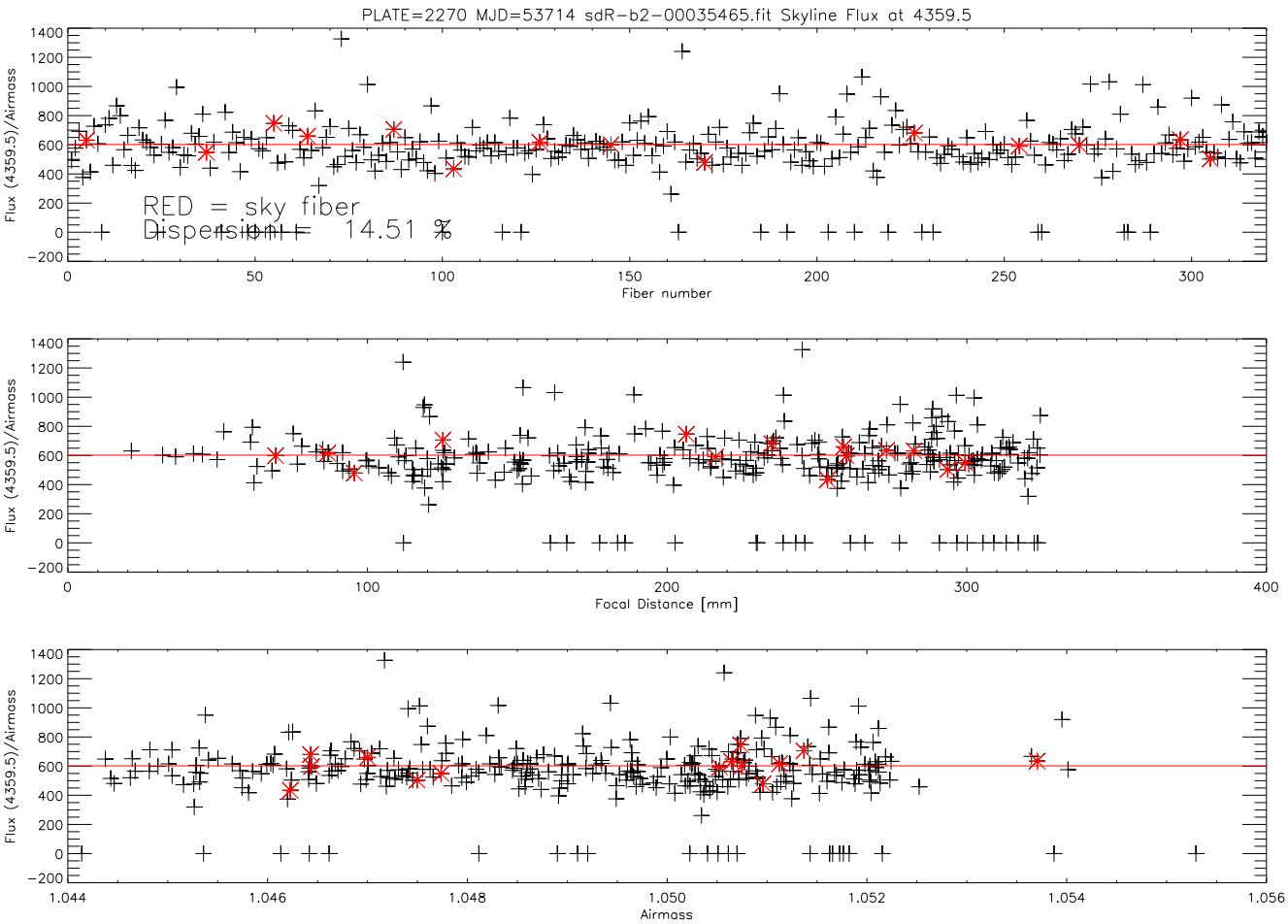

Number of sky fibers = 14
PLATE=2270 MJD=53714 sdR-b2-00035465.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

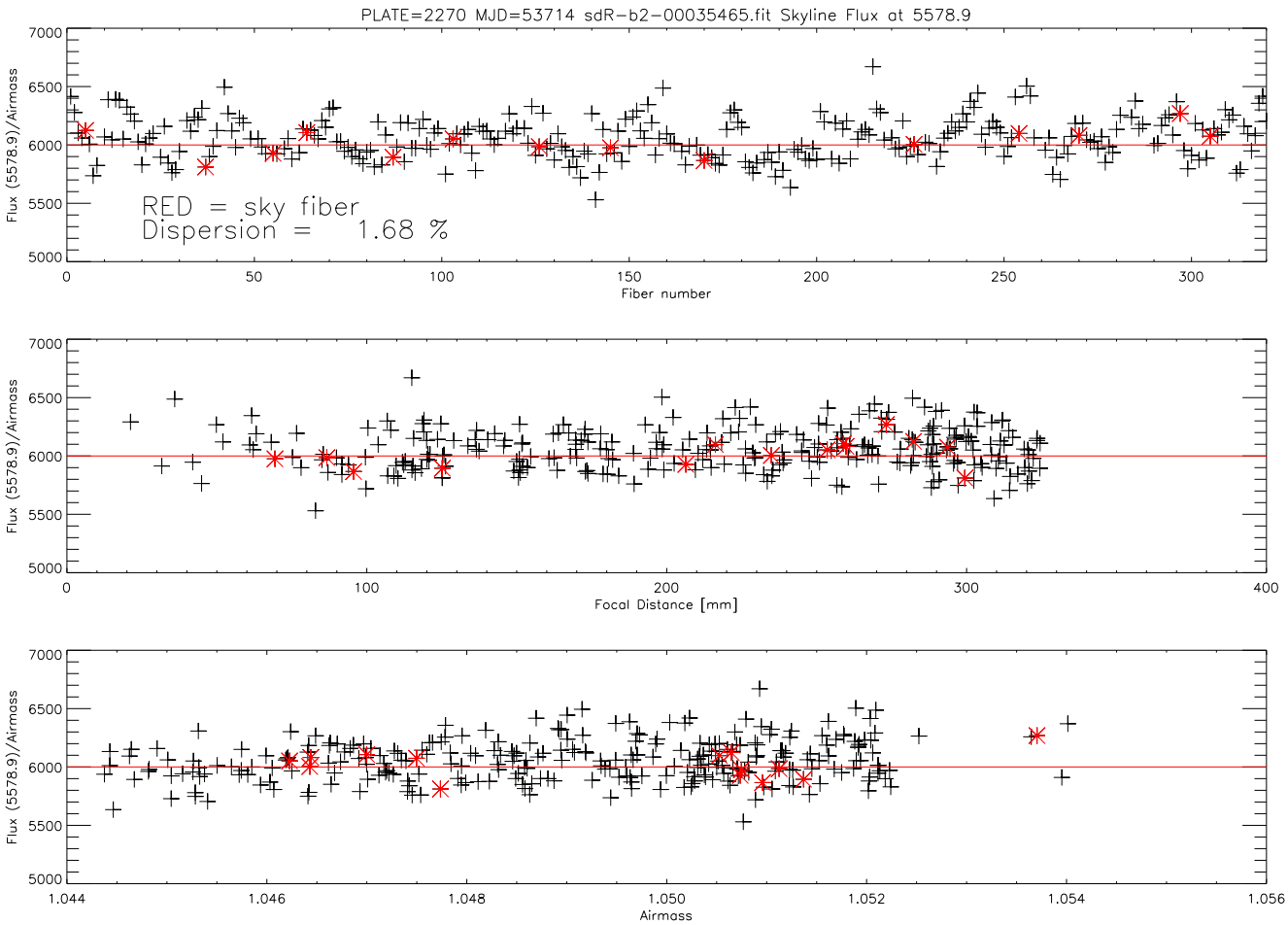

PLATE=2270 MJD=53714 sdR-b2-00035465.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

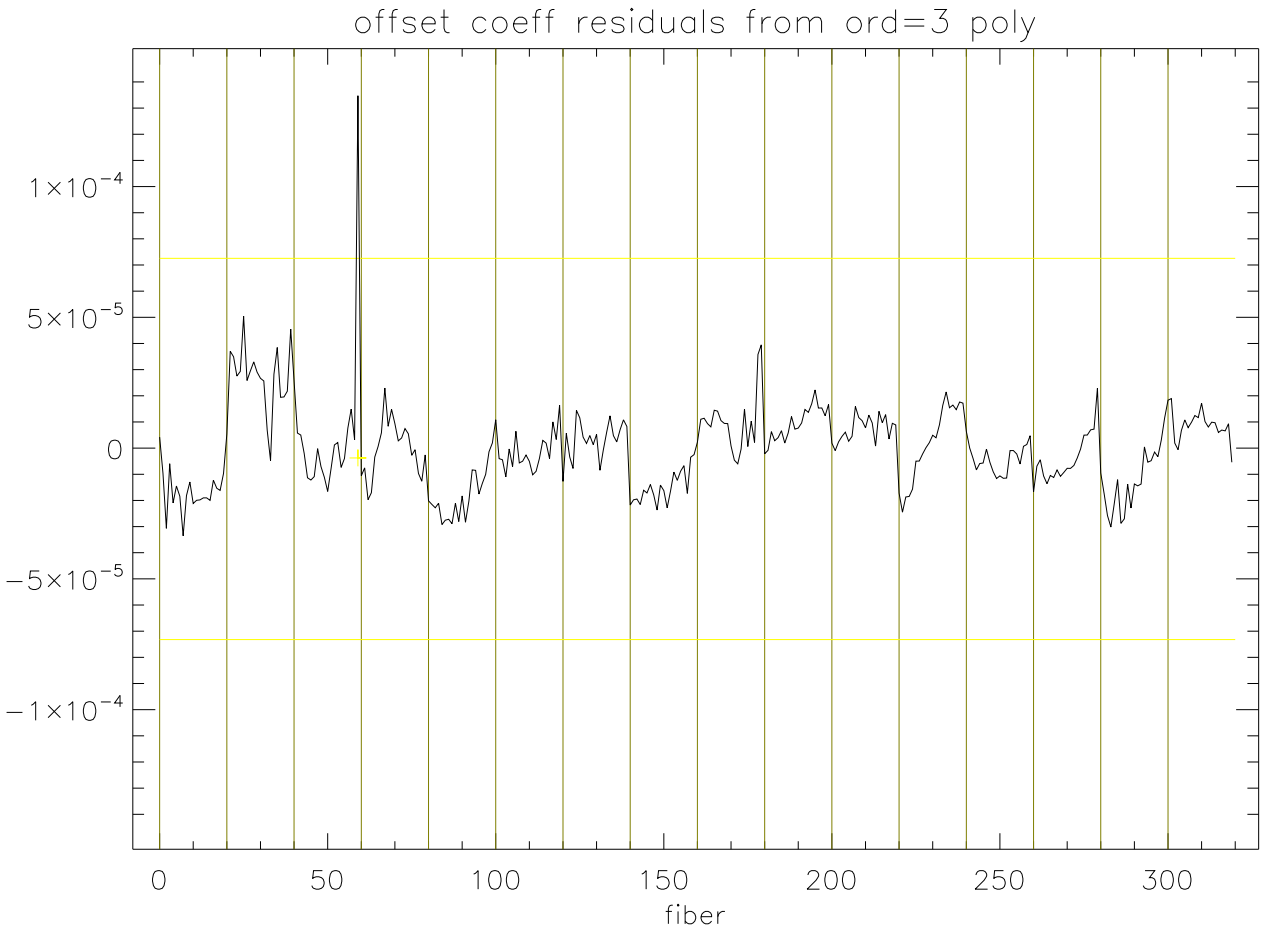

PLATE=2270 MJD=53714 sdR-b2-00035465.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

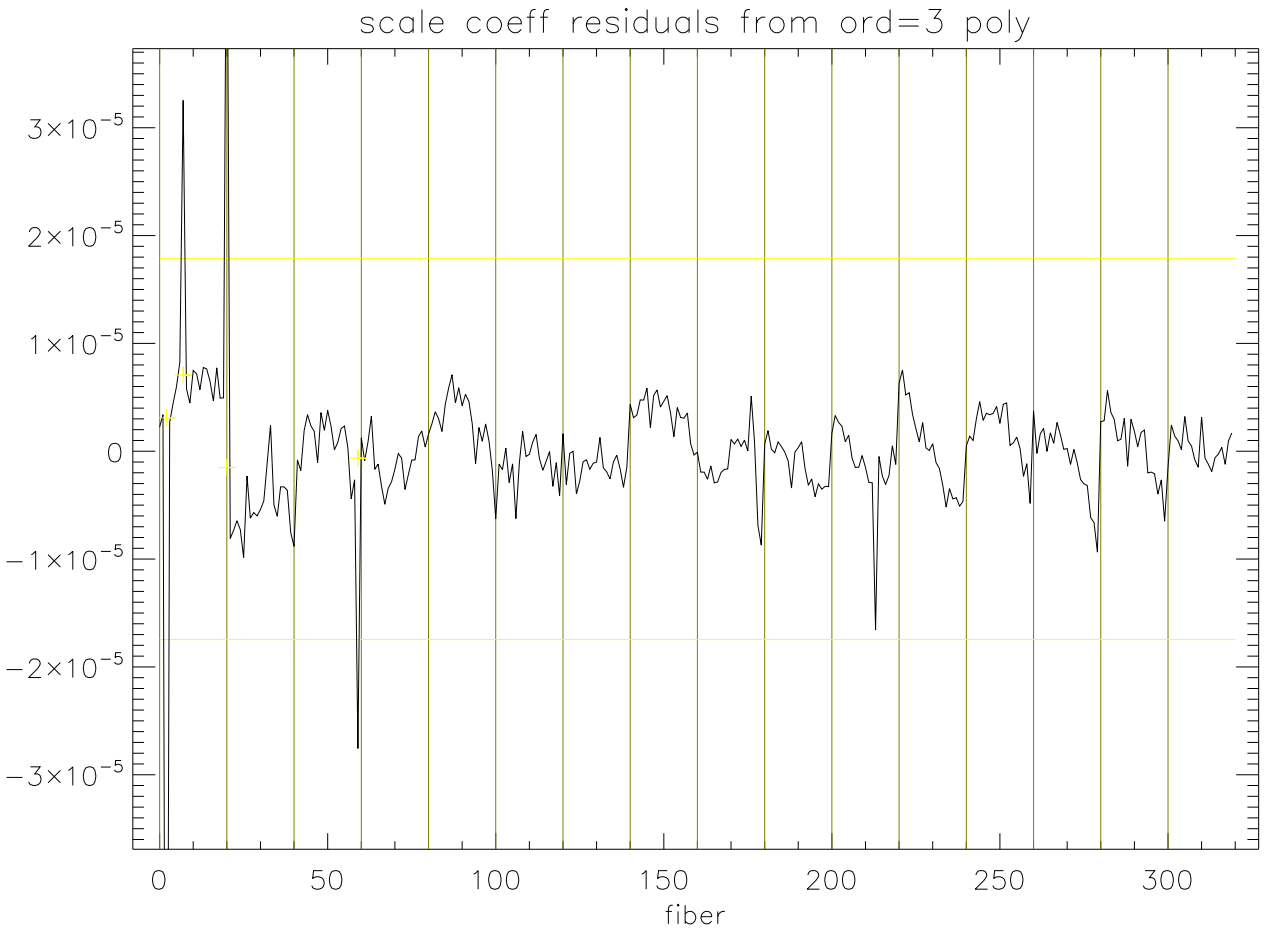

PLATE=2270 MJD=53714 sdR-b2-00035465.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
3000
2000
1000
0
-1000
5570
5575
5580
5585
5590
λ [A]

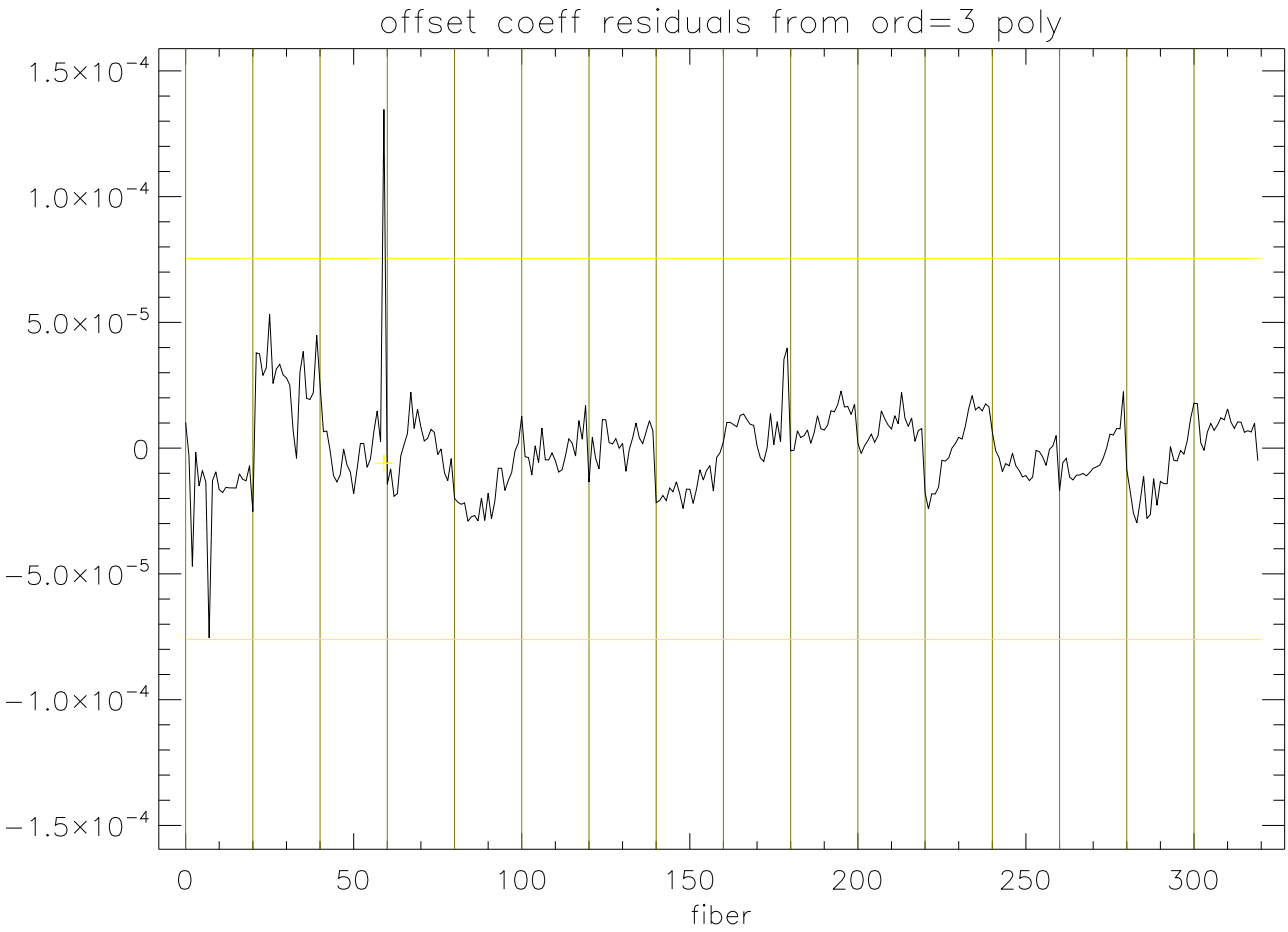

Number of sky fibers = 14
PLATE=2270 MJD=53714 sdR-b2-00035465.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

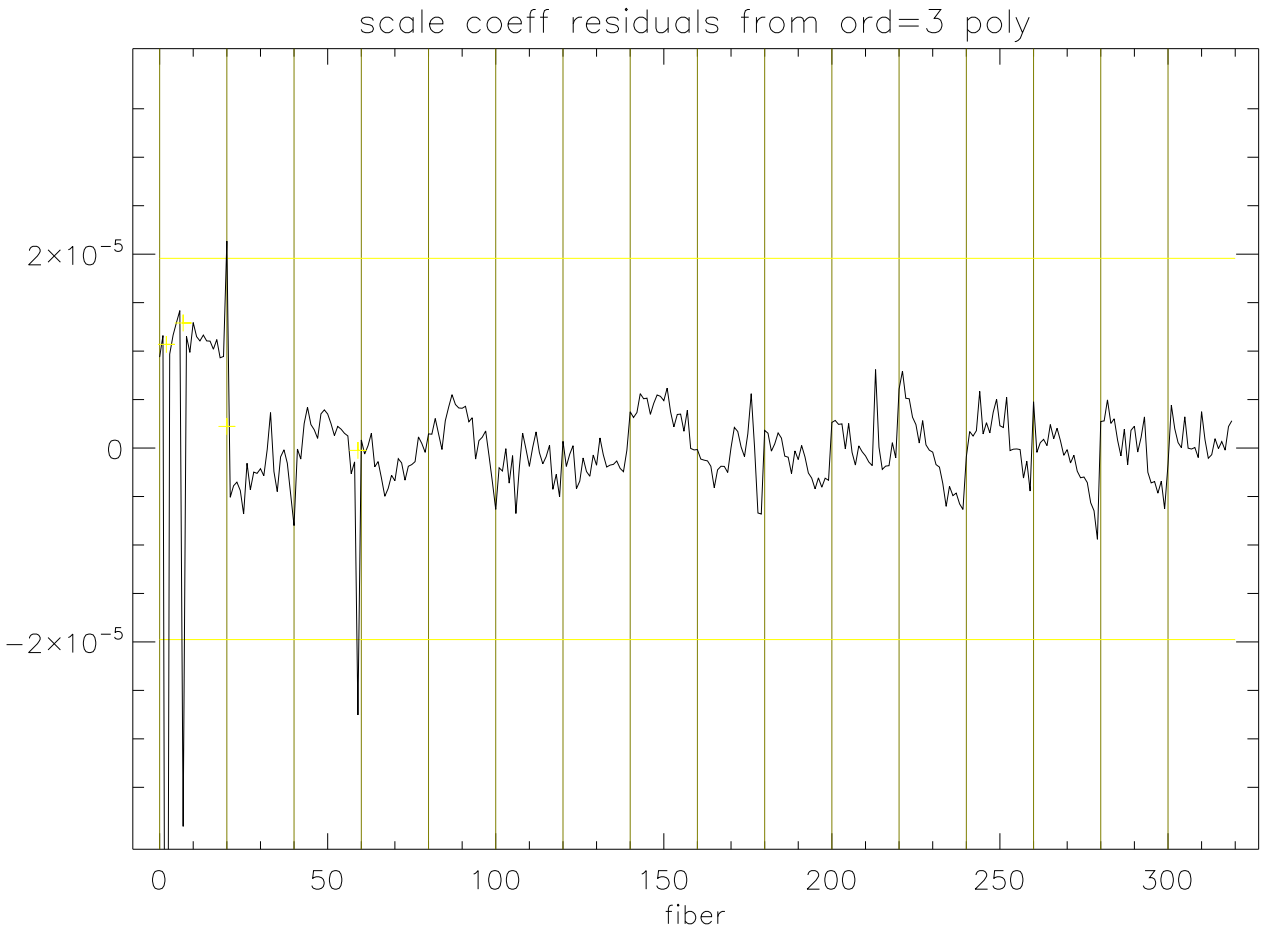

PLATE=2270 MJD=53714 sdR-b2-00035465.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 14.51 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

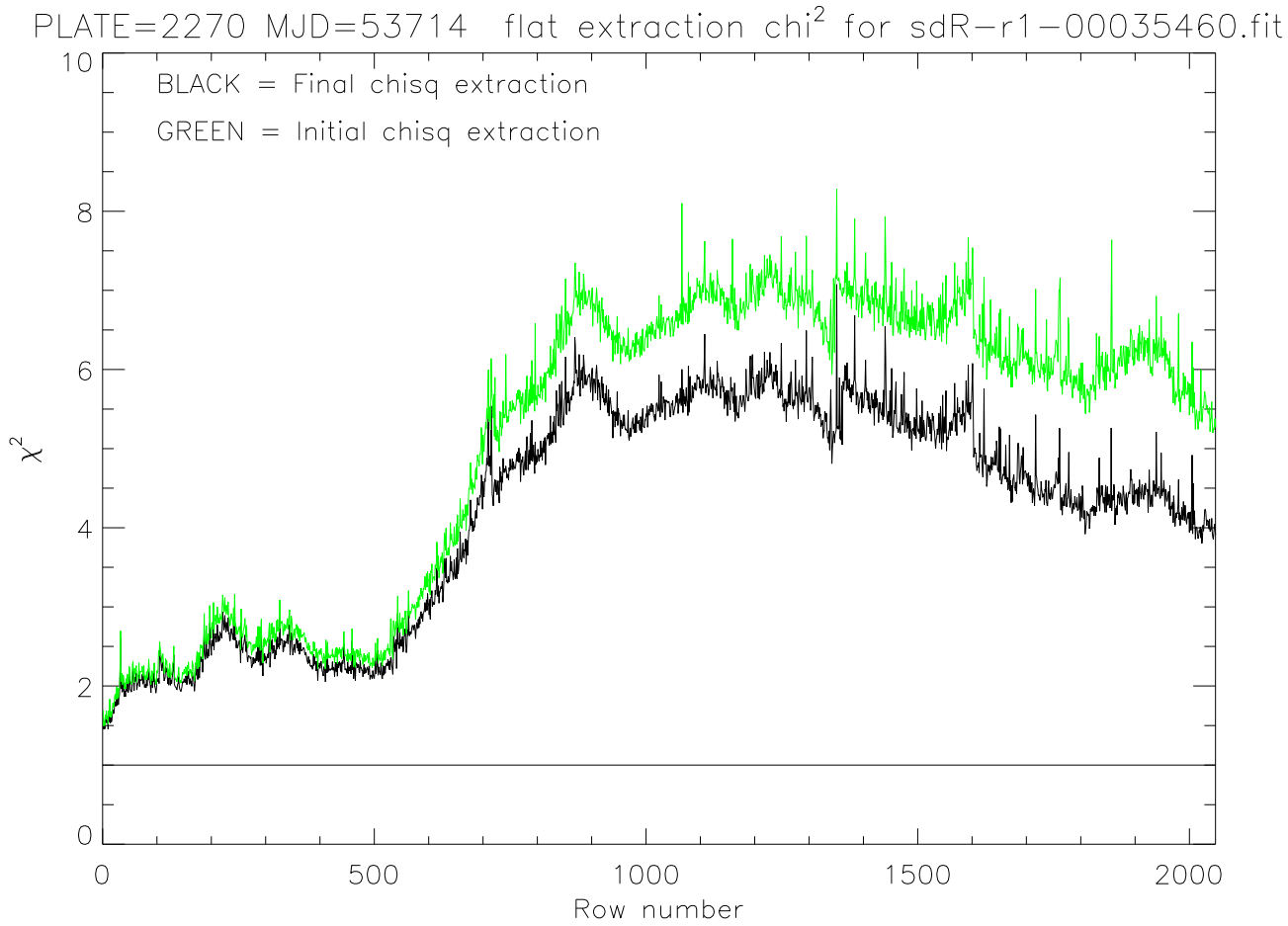

PLATE=2270 MJD=53714 sdR-b2-00035465.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.68 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

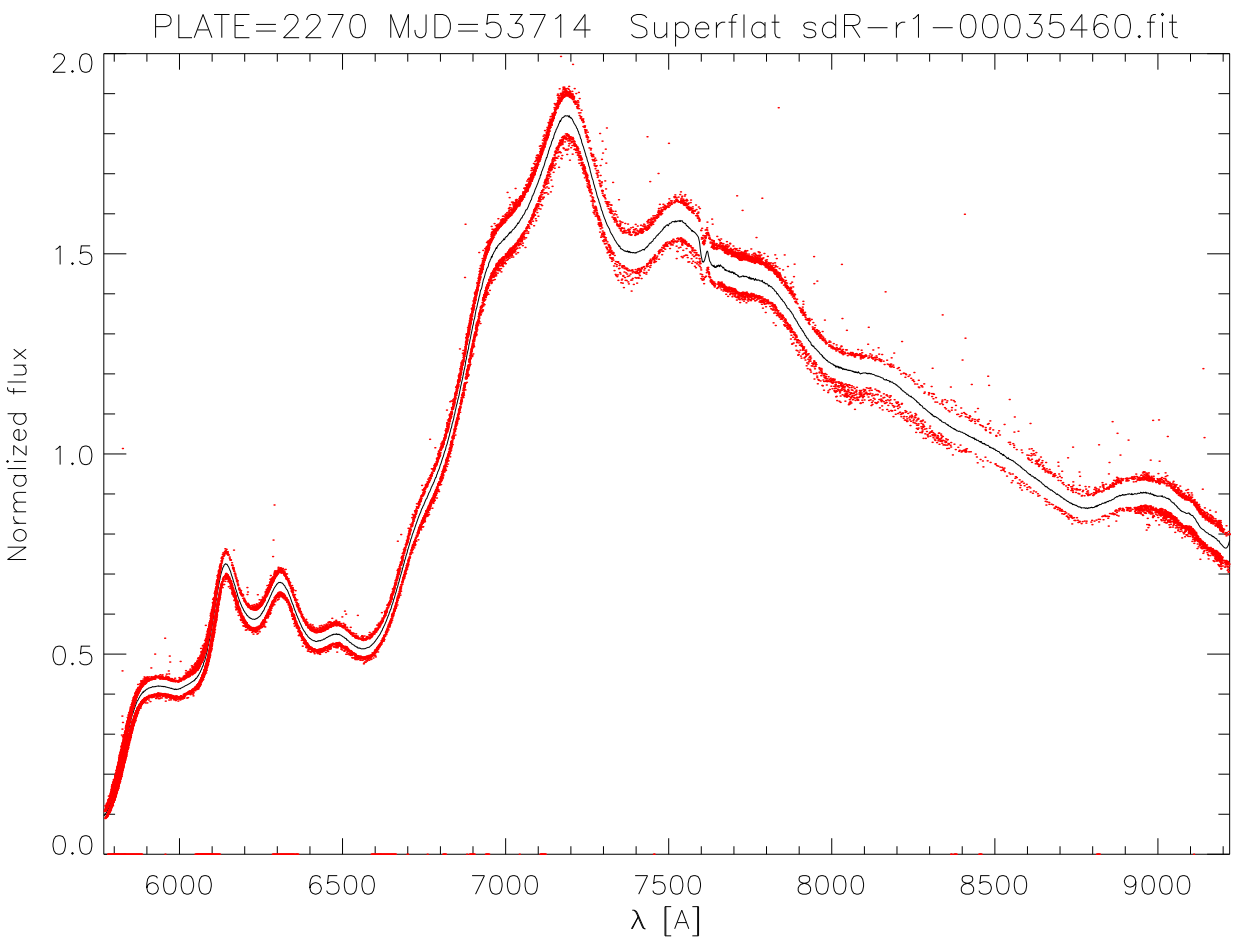

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

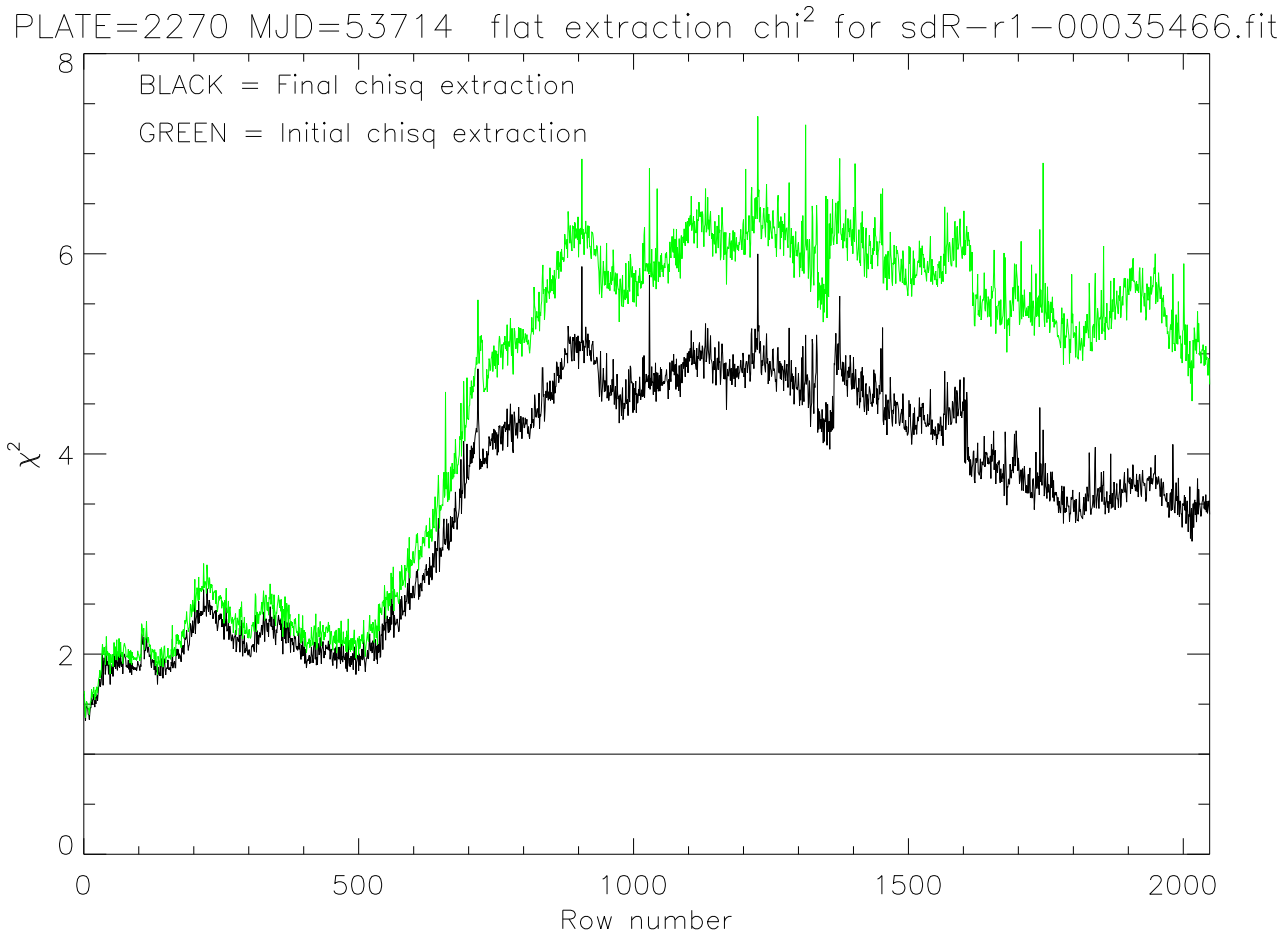

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

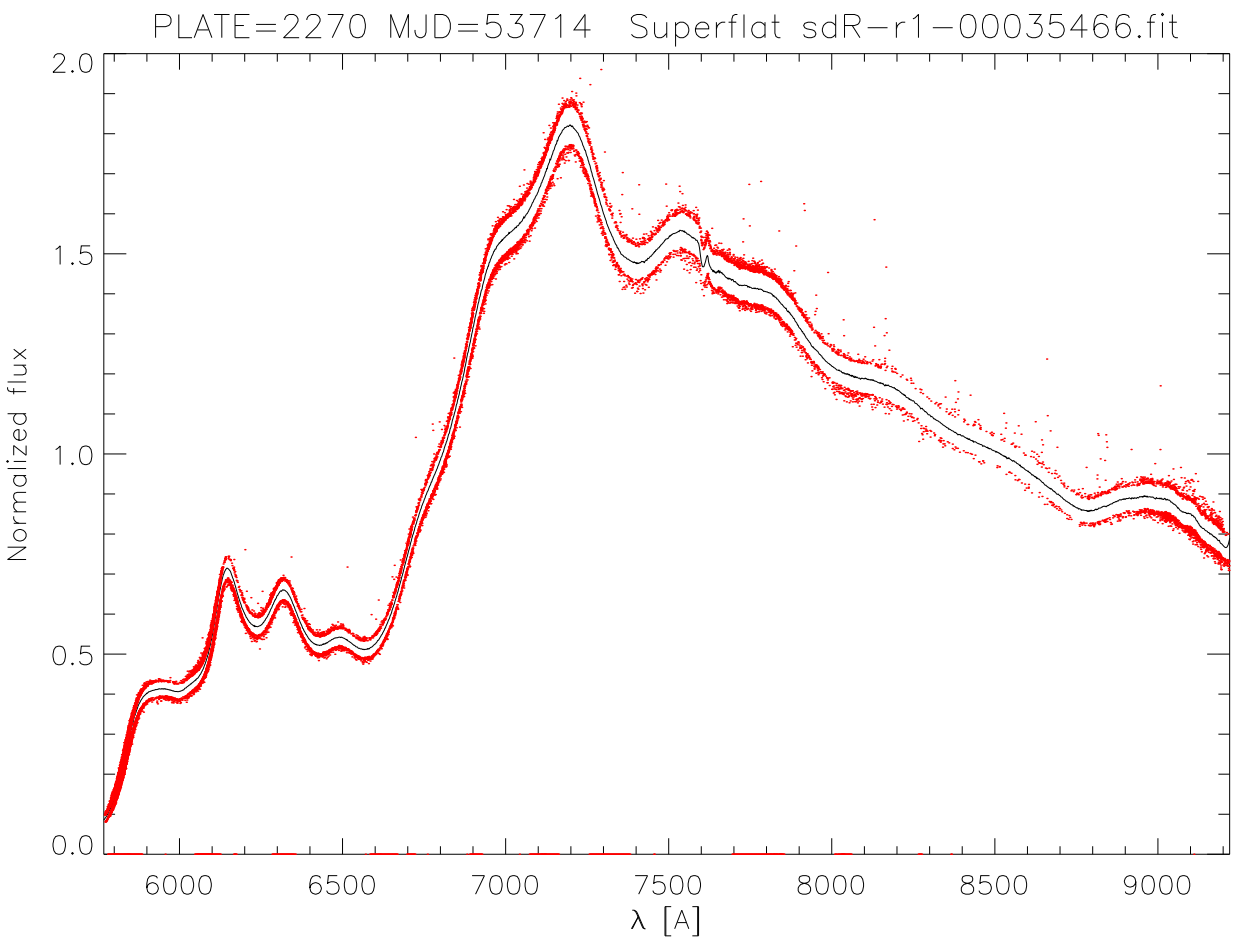

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

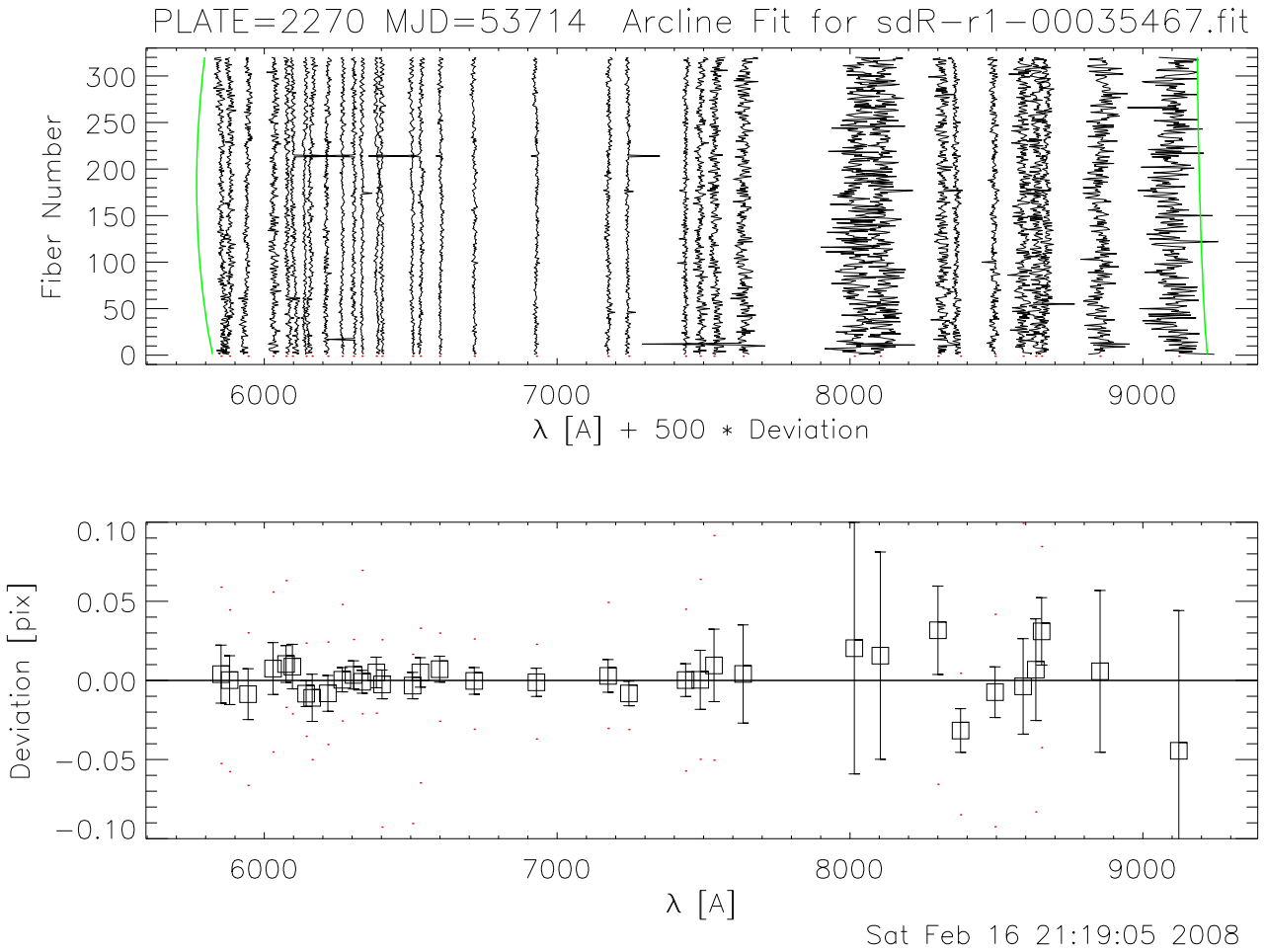

scale coeff residuals from ord=3 poly
2×10^-5
0
−2×10^-5
0
50
100
150
200
250
300
fiber

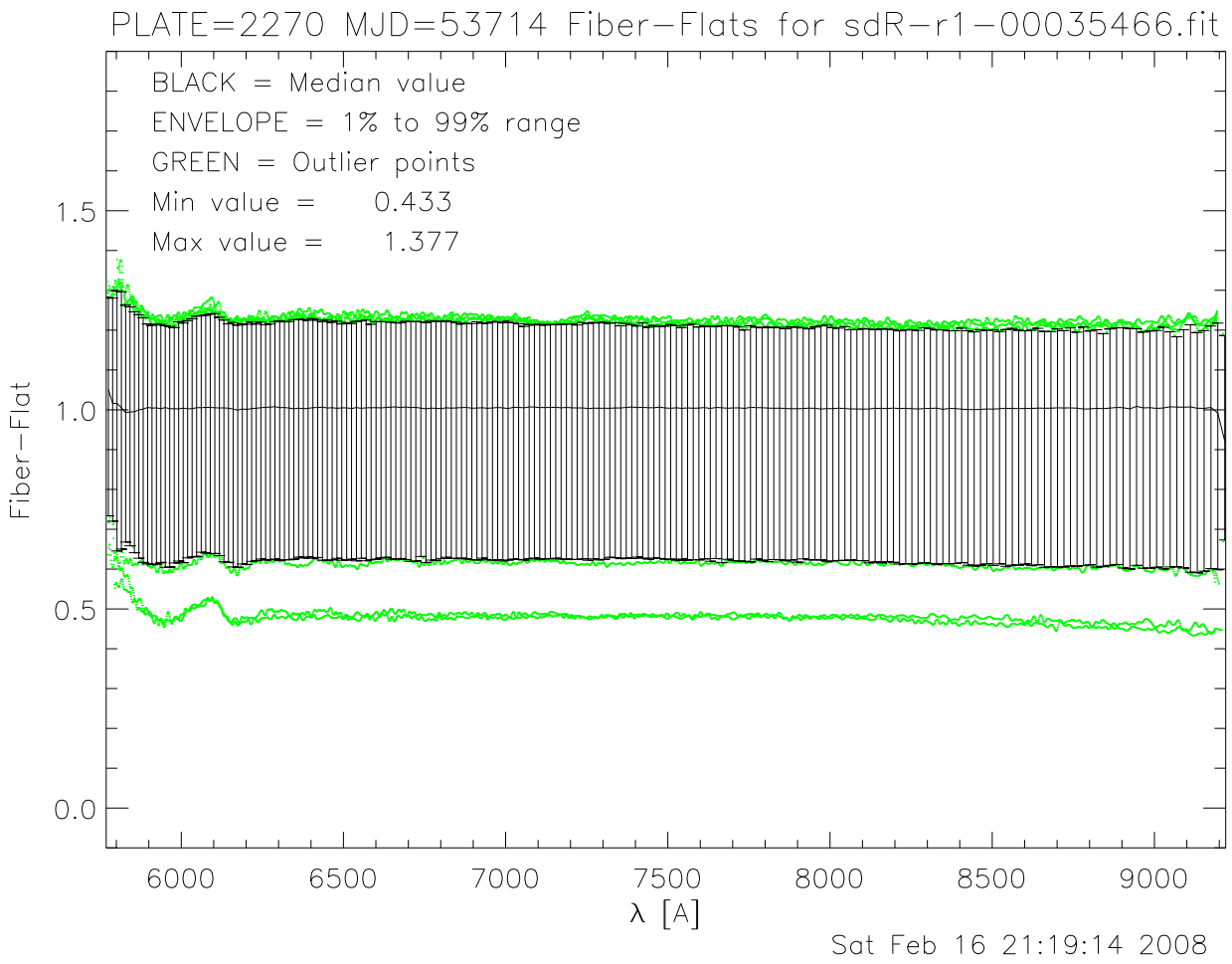

PLATE=2270 MJD=53714 flat extraction chi^2 for sdR−r1−00035460.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

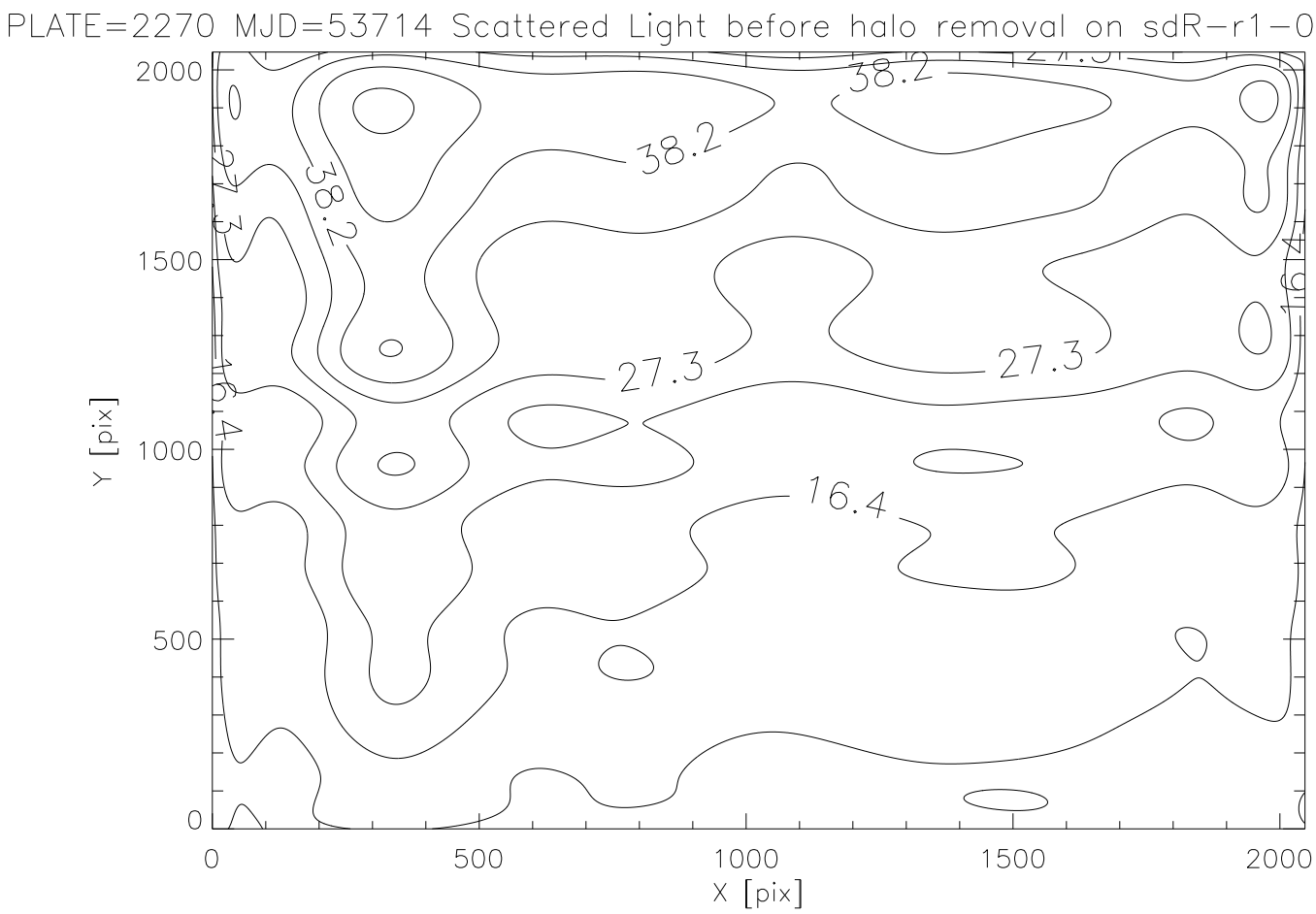

PLATE=2270 MJD=53714 Superflat sdR-r1-00035460.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

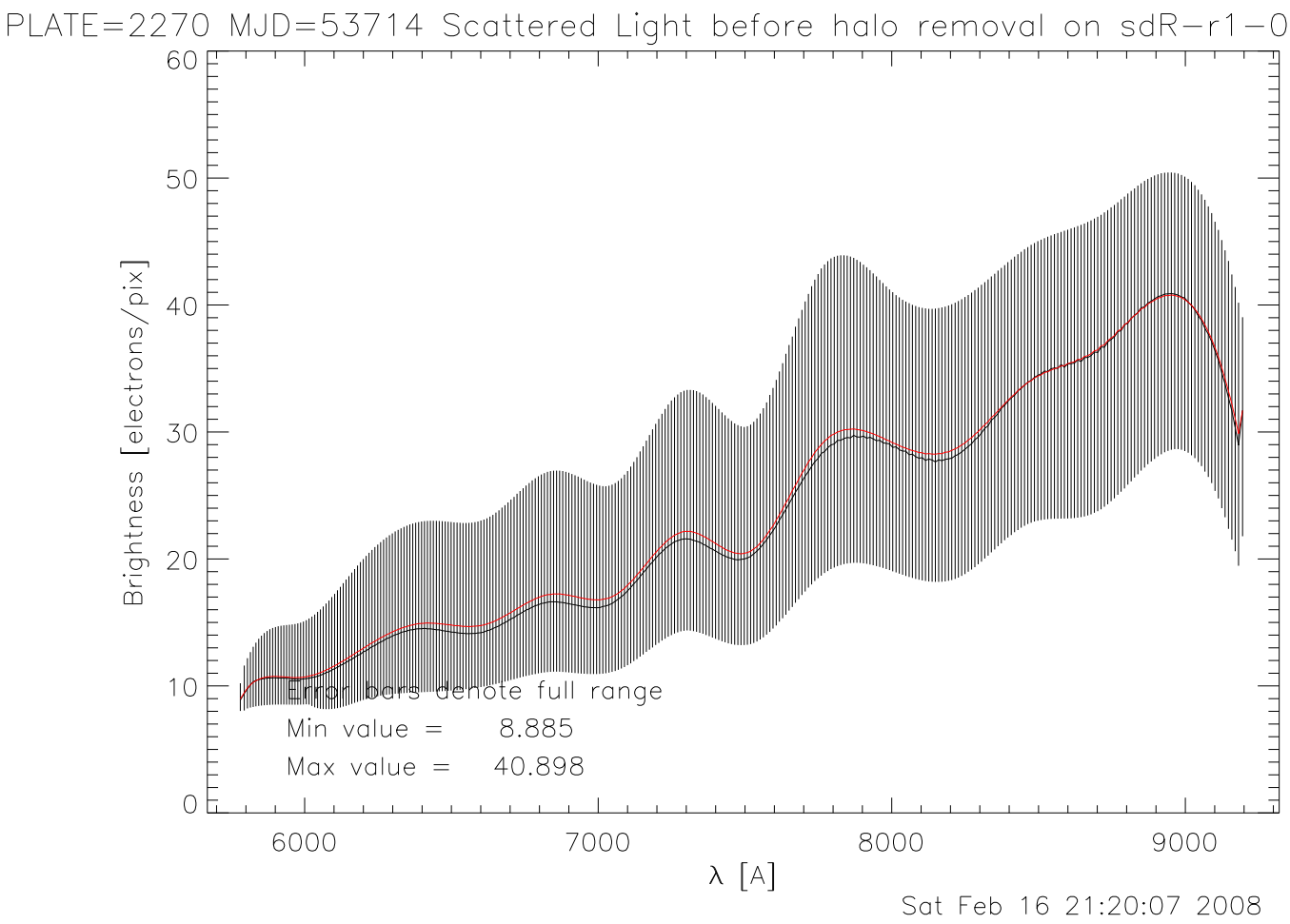

PLATE=2270 MJD=53714 flat extraction chi^2 for sdR−r1−00035466.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

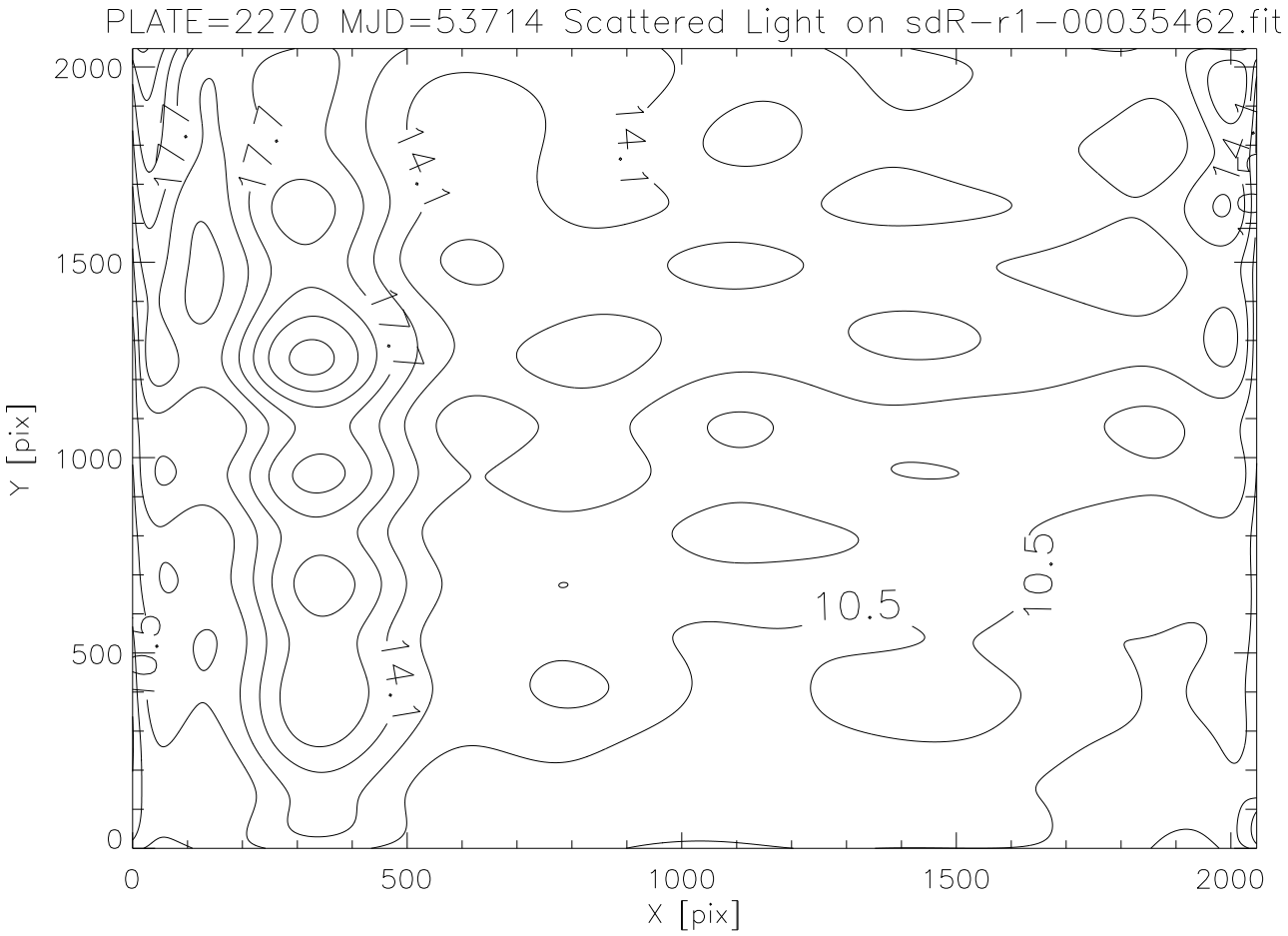

PLATE=2270 MJD=53714 Superflat sdR-r1-00035466.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

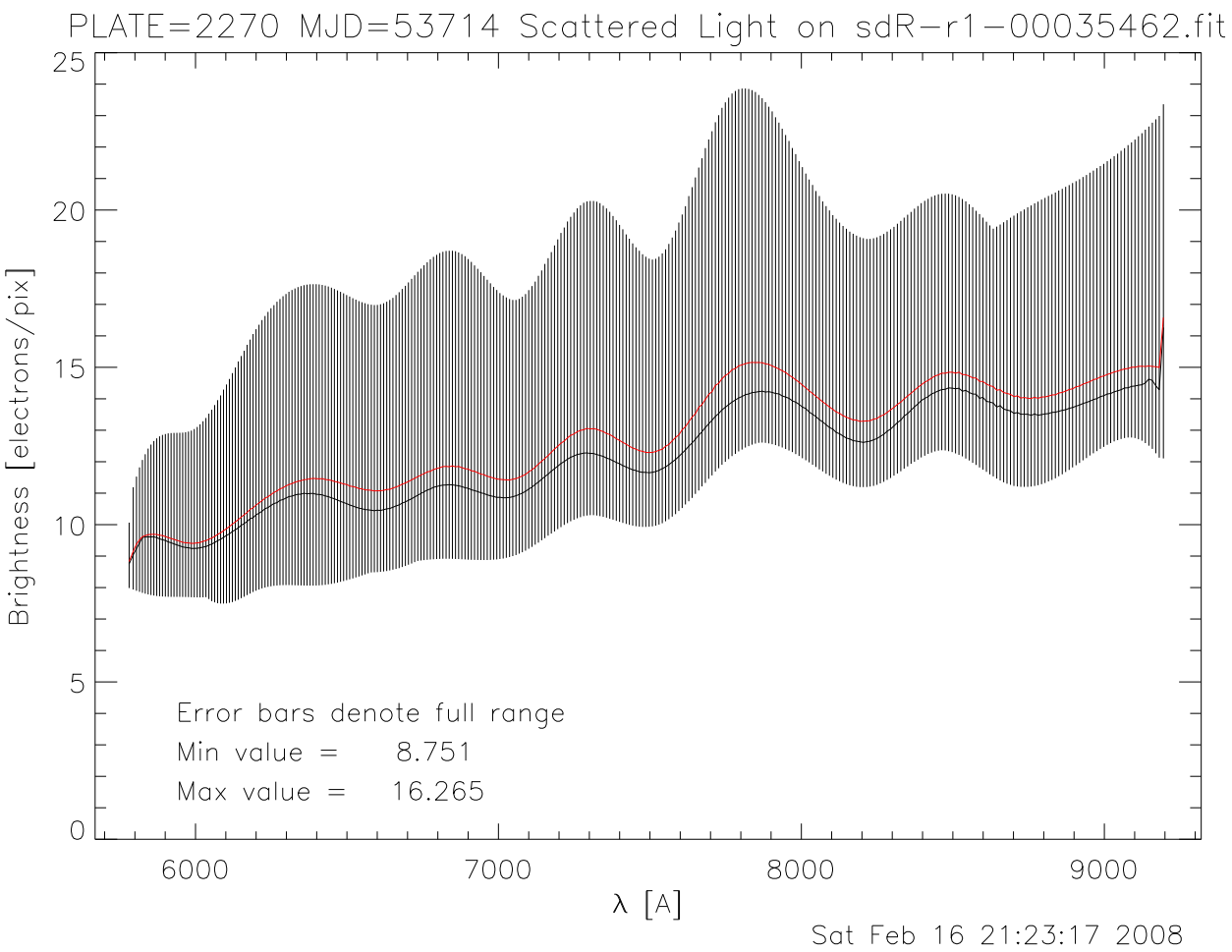

PLATE=2270 MJD=53714 Arcline Fit for sdR-r1-00035467.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Sat Feb 16 21:19:05 2008

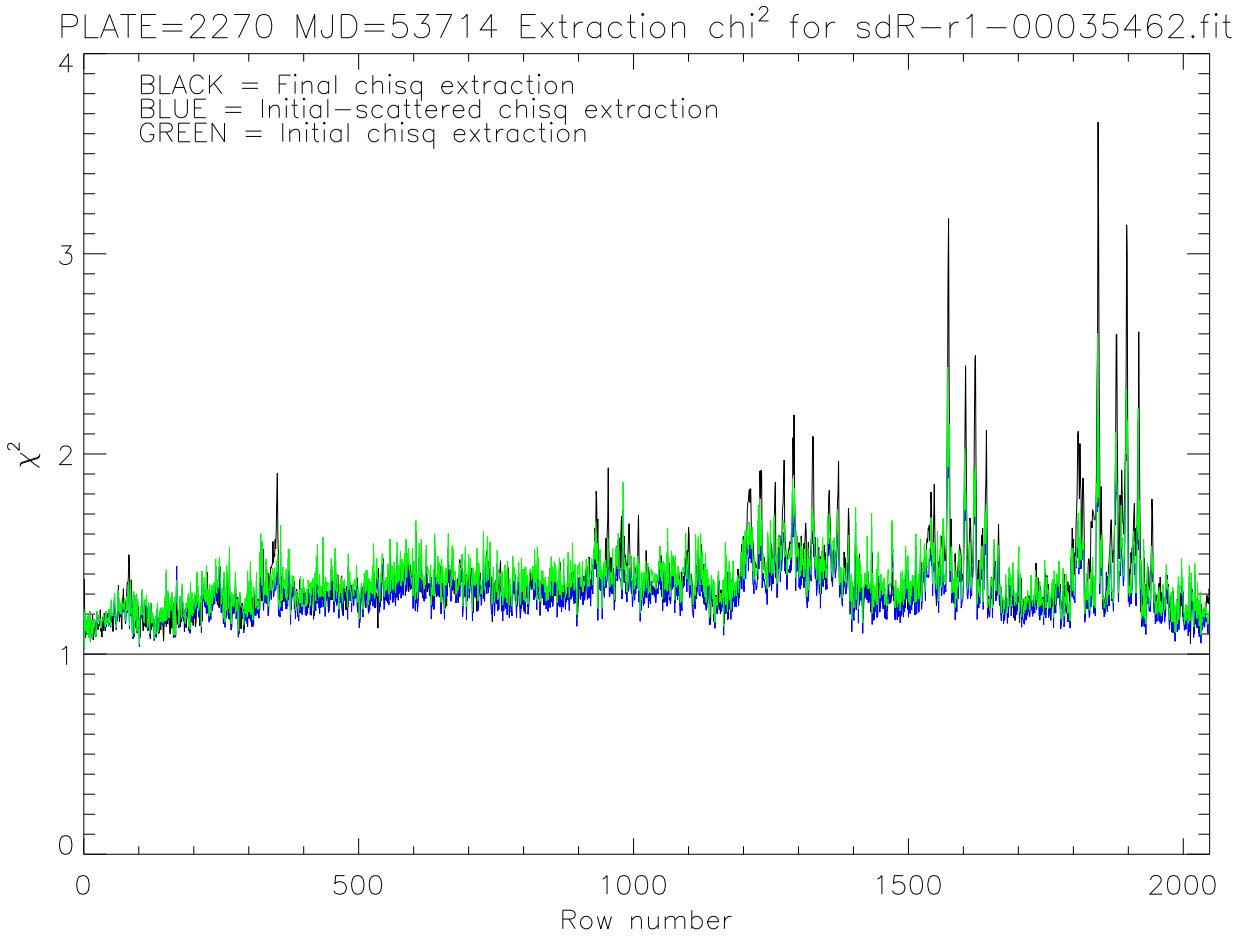

PLATE=2270 MJD=53714 Fiber−Flats for sdR−r1−00035466.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.433
Max value = 1.377
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sat Feb 16 21:19:14 2008

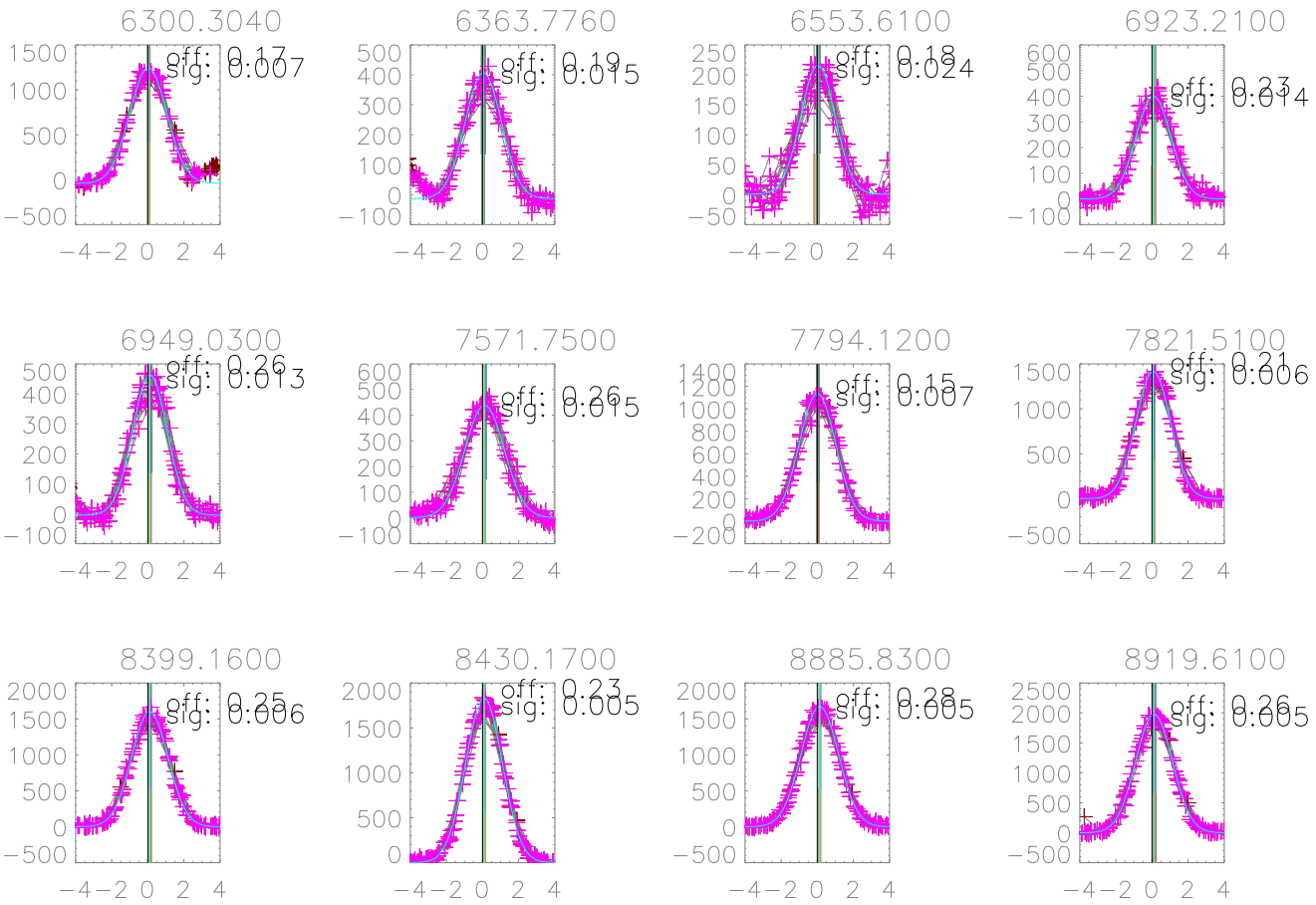

PLATE=2270 MJD=53714 Scattered Light before halo removal on sdR-r1-00035462.fi
38.2
38.2
38.2
27.3
27.3
16.4
16.4
16.4
Y [pix]
X [pix]
0
500
1000
1500
2000

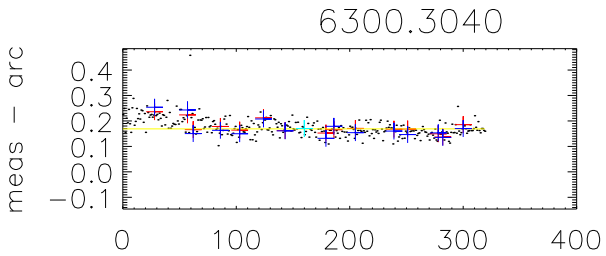

PLATE=2270 MJD=53714 Scattered Light before halo removal on sdR-r1-00035462.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 8.885
Max value = 40.898
Sat Feb 16 21:20:07 2008

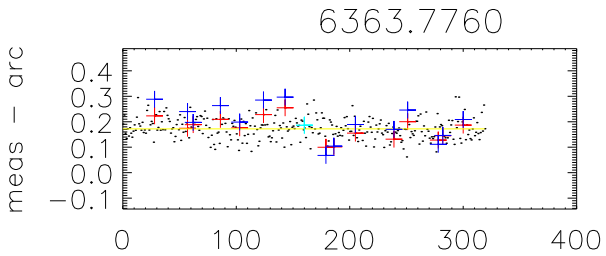

PLATE=2270 MJD=53714 Scattered Light on sdR-r1-00035462.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
17.7
14.1
10.5

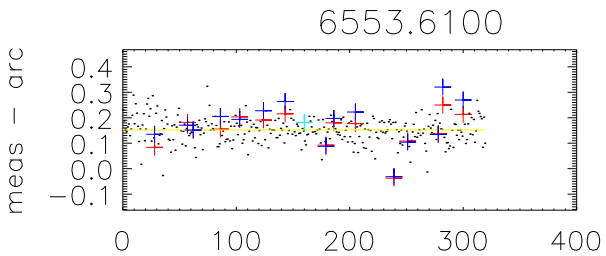

PLATE=2270 MJD=53714 Scattered Light on sdR-r1-00035462.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 8.751
Max value = 16.265
Sat Feb 16 21:23:17 2008

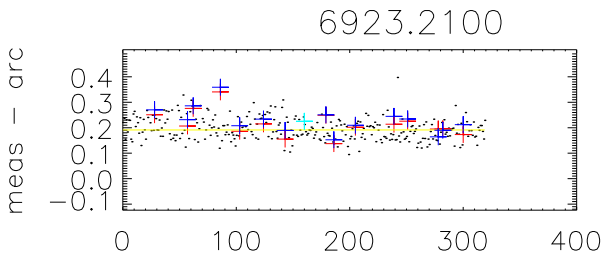

PLATE=2270 MJD=53714 Extraction chi^2 for sdR−r1−00035462.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

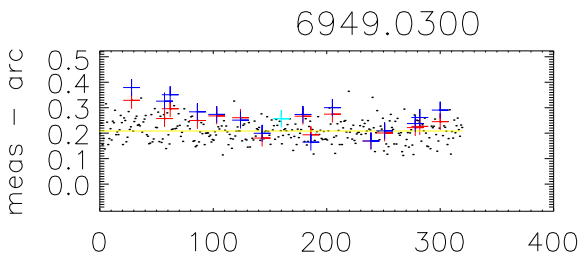

6300.3040
off: 0.17
sig: 0.007
6363.7760
off: 0.19
sig: 0.015
6553.6100
off: 0.18
sig: 0.024
6923.2100
off: 0.23
sig: 0.014
6949.0300
off: 0.26
sig: 0.013
7571.7500
off: 0.26
sig: 0.015
7794.1200
off: 0.15
sig: 0.007
7821.5100
off: 0.21
sig: 0.006
8399.1600
off: 0.25
sig: 0.006
8430.1700
off: 0.23
sig: 0.005
8885.8300
off: 0.28
sig: 0.005
8919.6100
off: 0.26
sig: 0.005

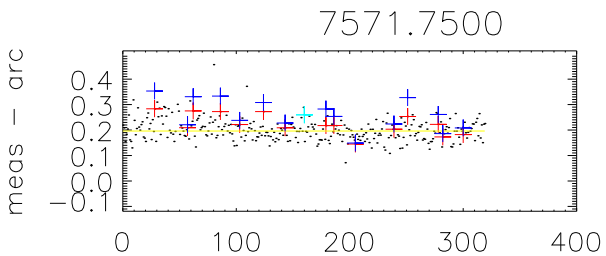

6300.3040
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

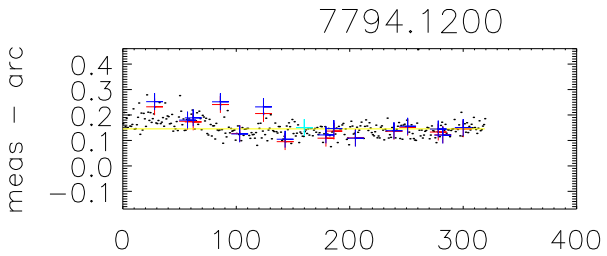

6363.7760
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

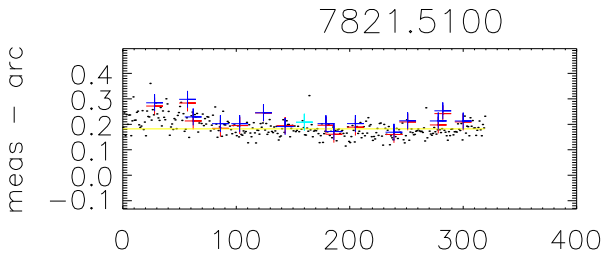

6553.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

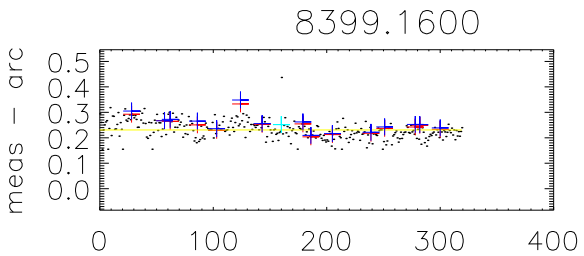

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

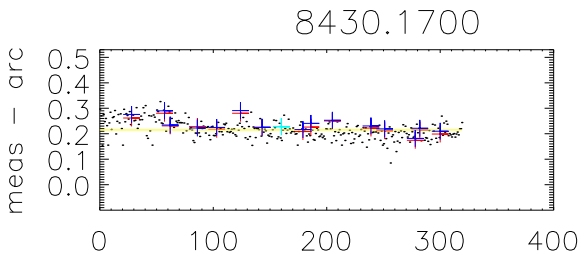

6949.0300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

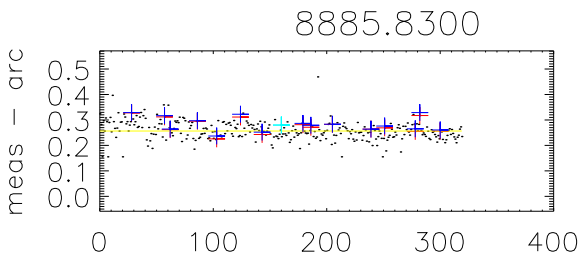

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

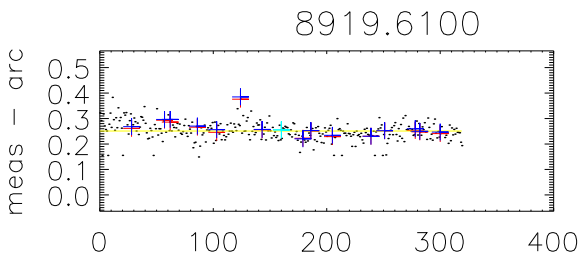

7794.1200
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

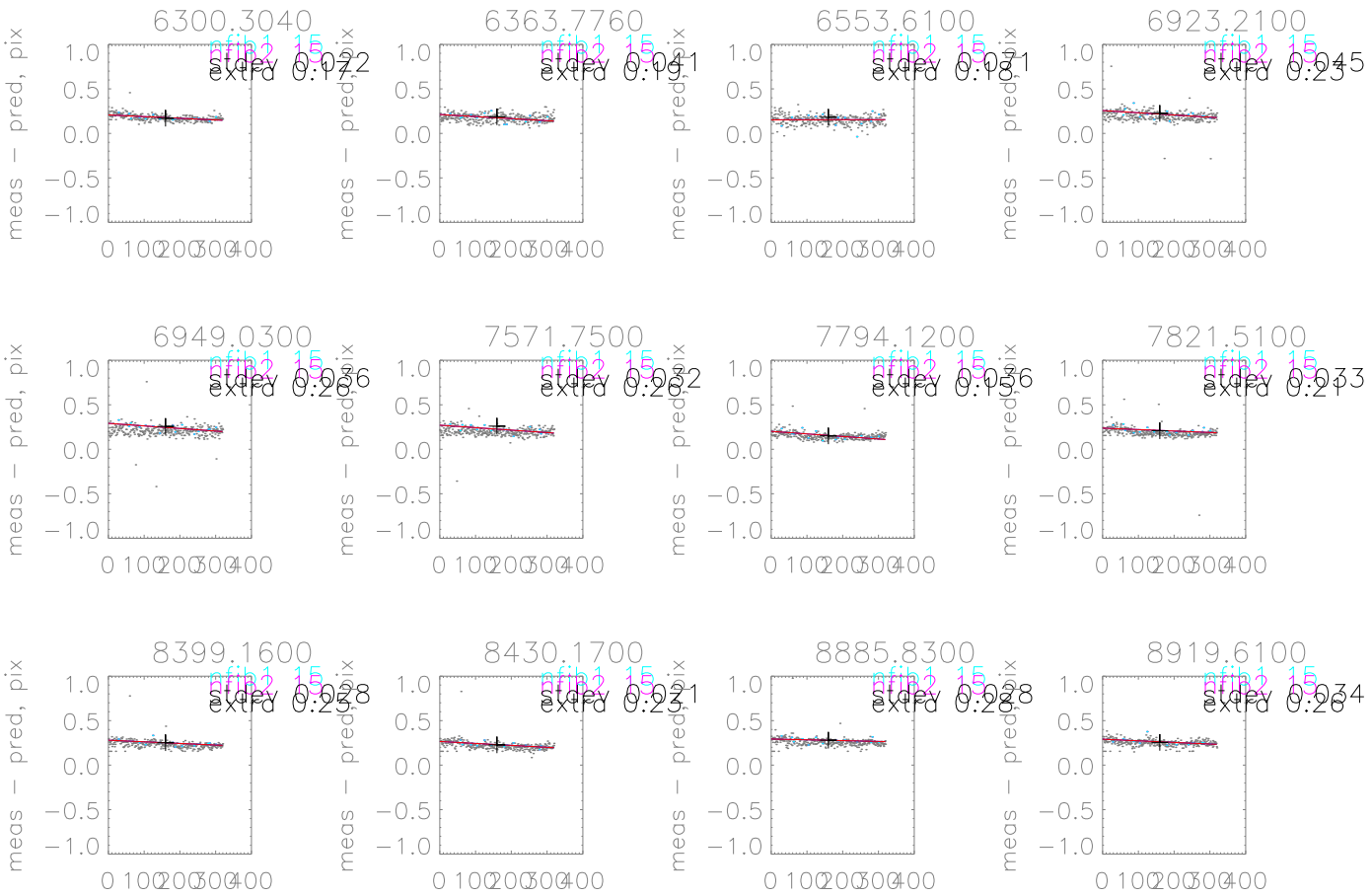

7821.5100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

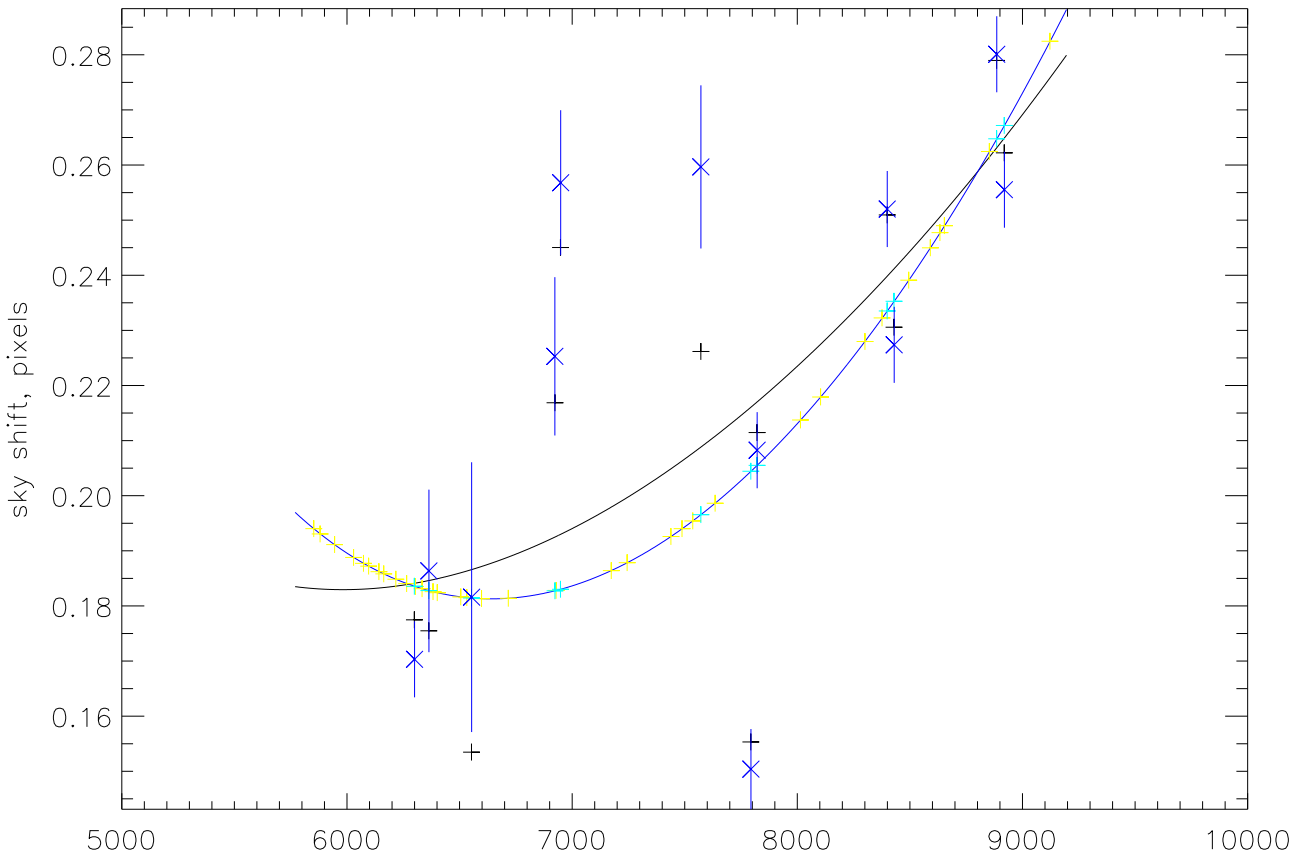

8399.1600
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

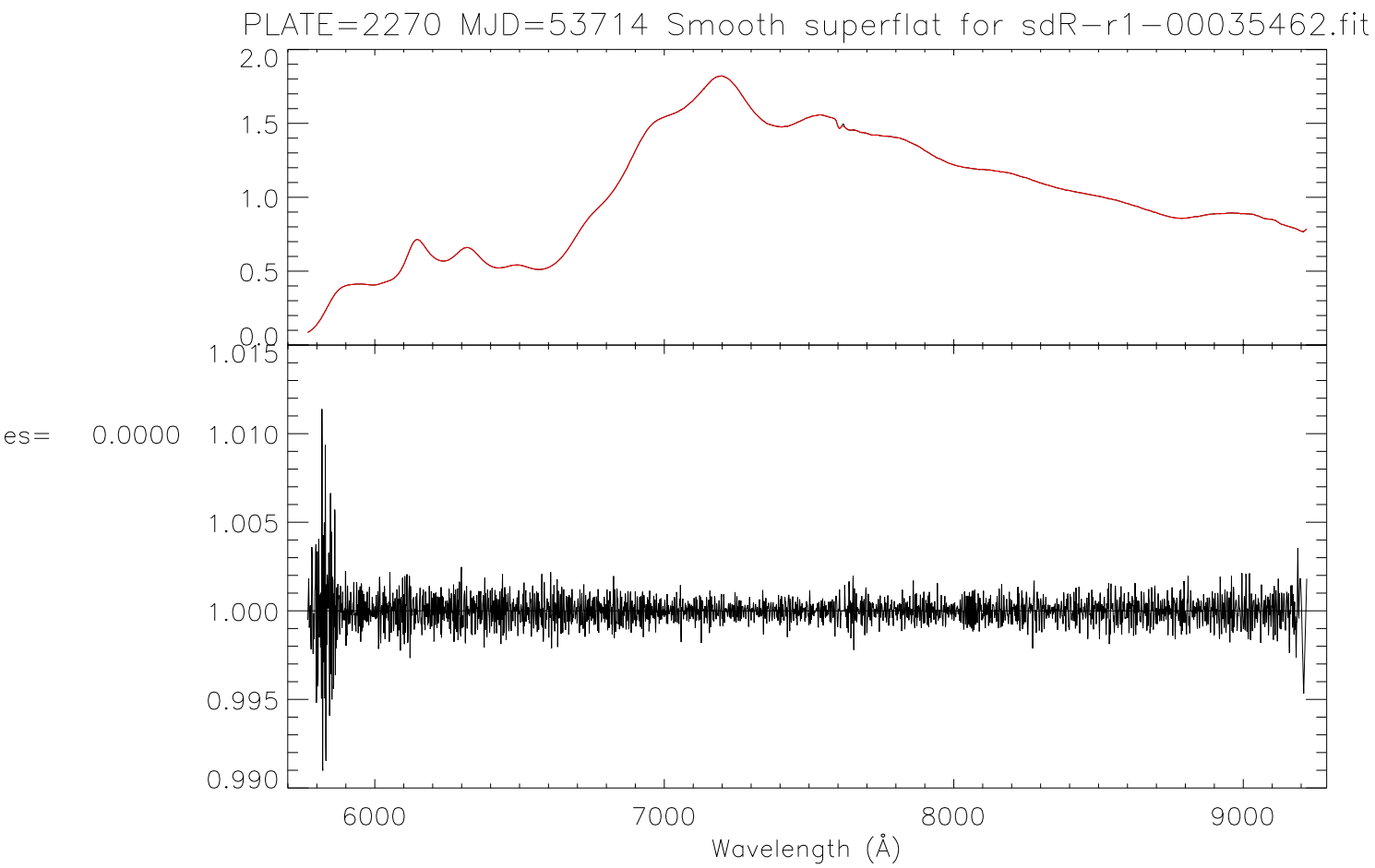

8430.1700
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400


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

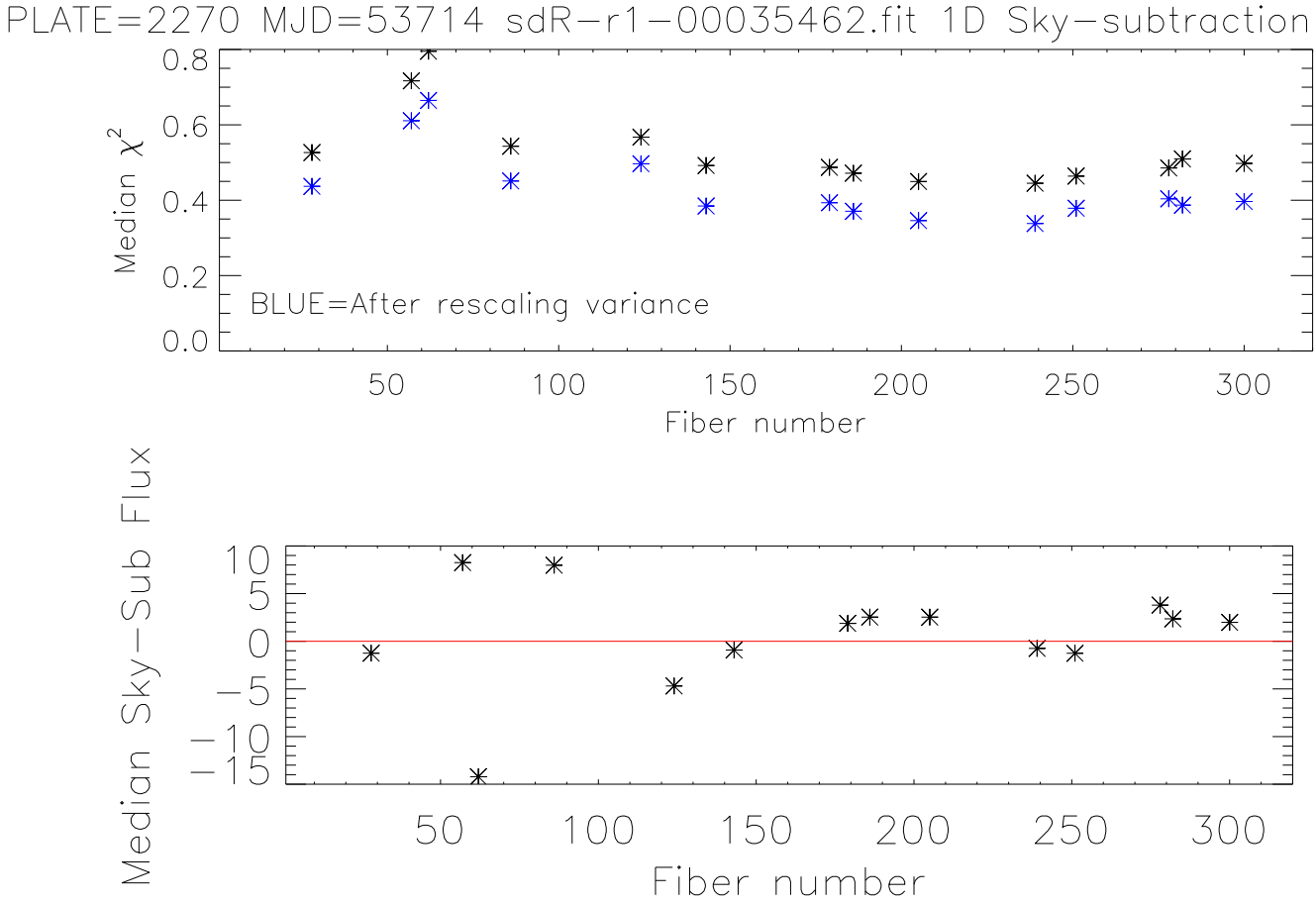

8919.6100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

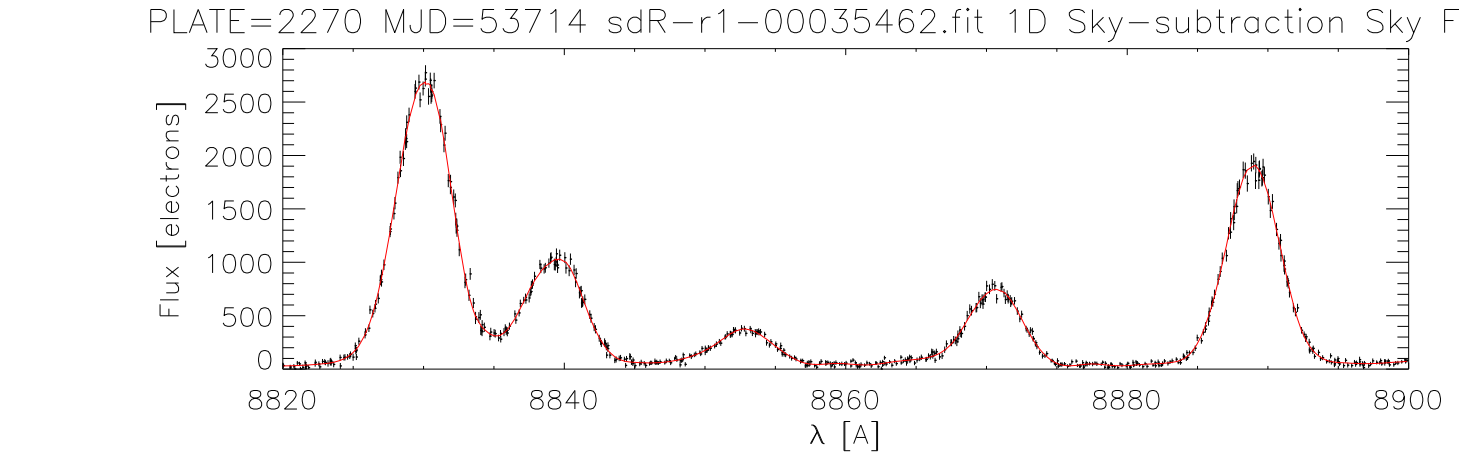

6300.3040
stdev 0.022
extra 0.17
6363.7760
stdev 0.041
extra 0.19
6553.6100
stdev 0.071
extra 0.18
6923.2100
stdev 0.045
extra 0.23
6949.0300
stdev 0.036
extra 0.26
7571.7500
stdev 0.032
extra 0.26
7794.1200
stdev 0.056
extra 0.15
7821.5100
stdev 0.033
extra 0.21
8399.1600
stdev 0.028
extra 0.23
8430.1700
stdev 0.021
extra 0.23
8885.8300
stdev 0.028
extra 0.28
8919.6100
stdev 0.034
extra 0.26
meas − pred, pix
mfhd2 15

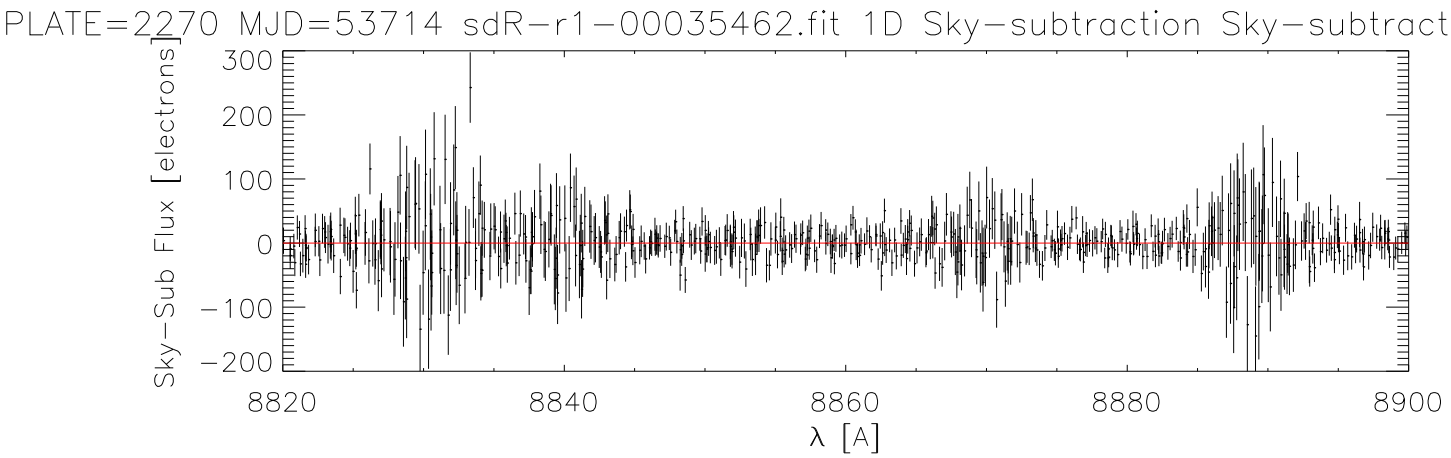

sky shift, pixels
0.28
0.26
0.24
0.22
0.20
0.18
0.16
5000
6000
7000
8000
9000
10000

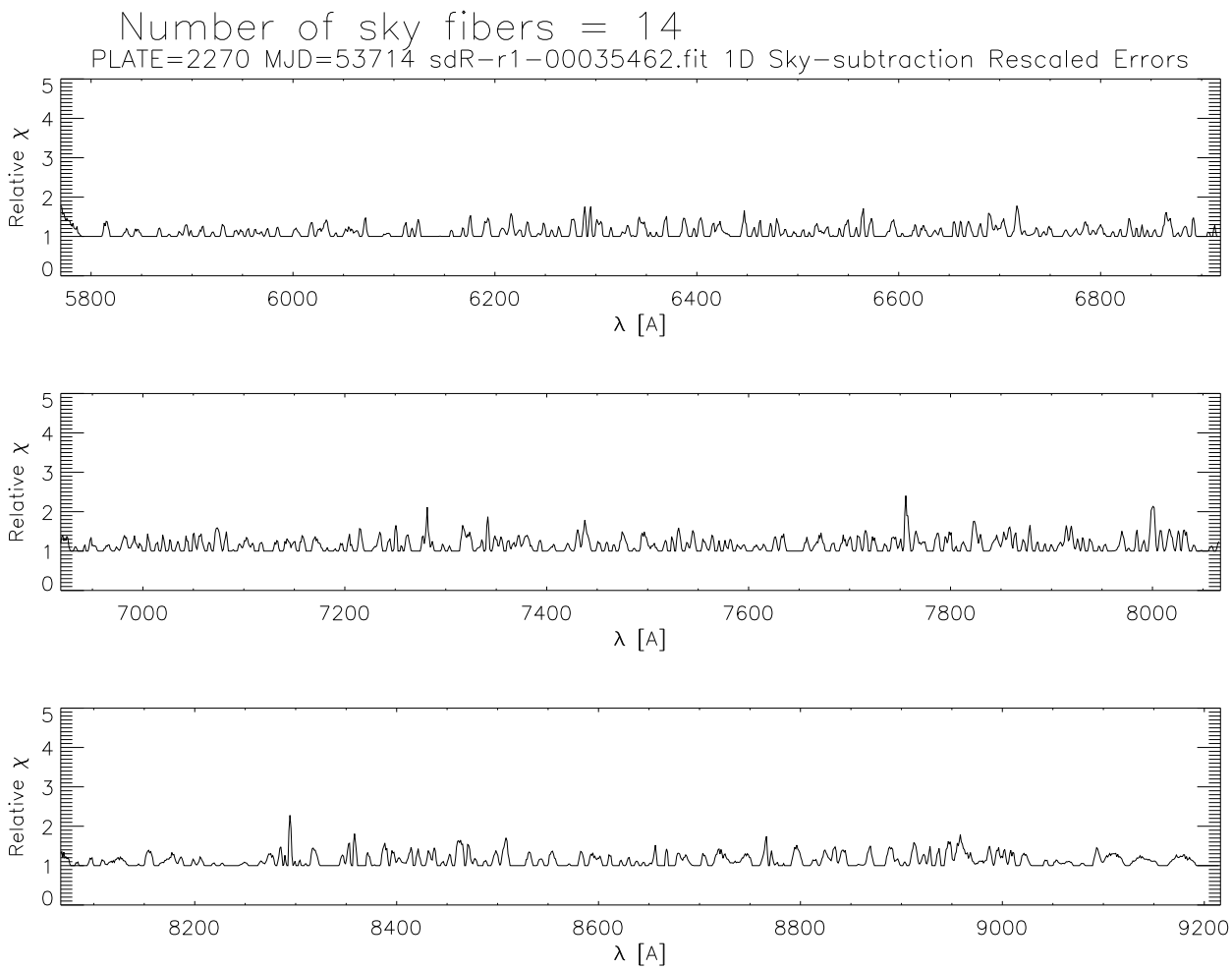

PLATE=2270 MJD=53714 Smooth superflat for sdR-r1-00035462.fit
2.0
1.5
1.0
0.5
0.0
1.015
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

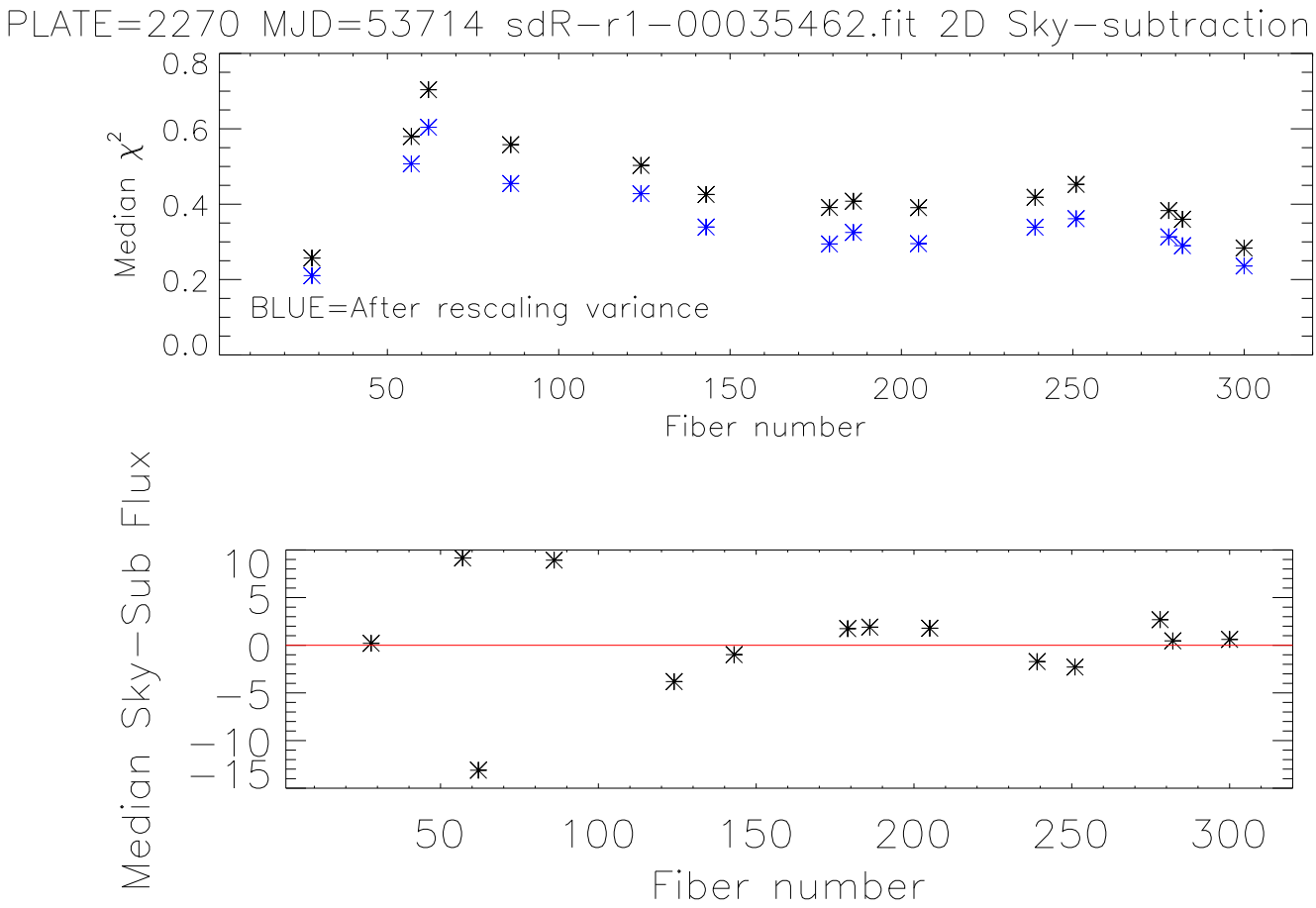
es= 0.0000

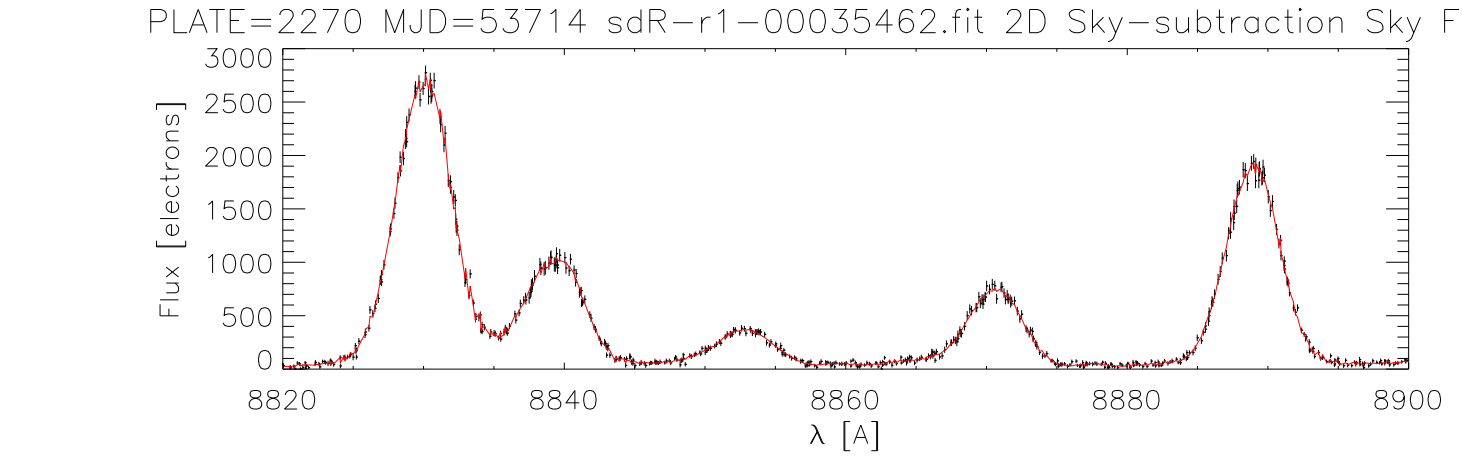

PLATE=2270 MJD=53714 sdR-r1-00035462.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

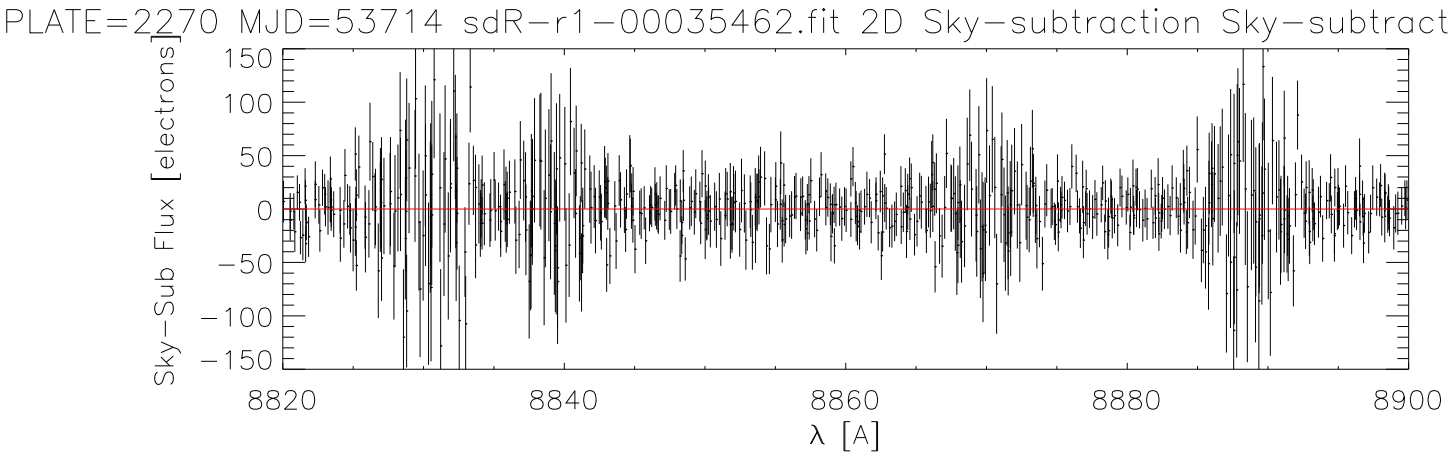

PLATE=2270 MJD=53714 sdR-r1-00035462.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

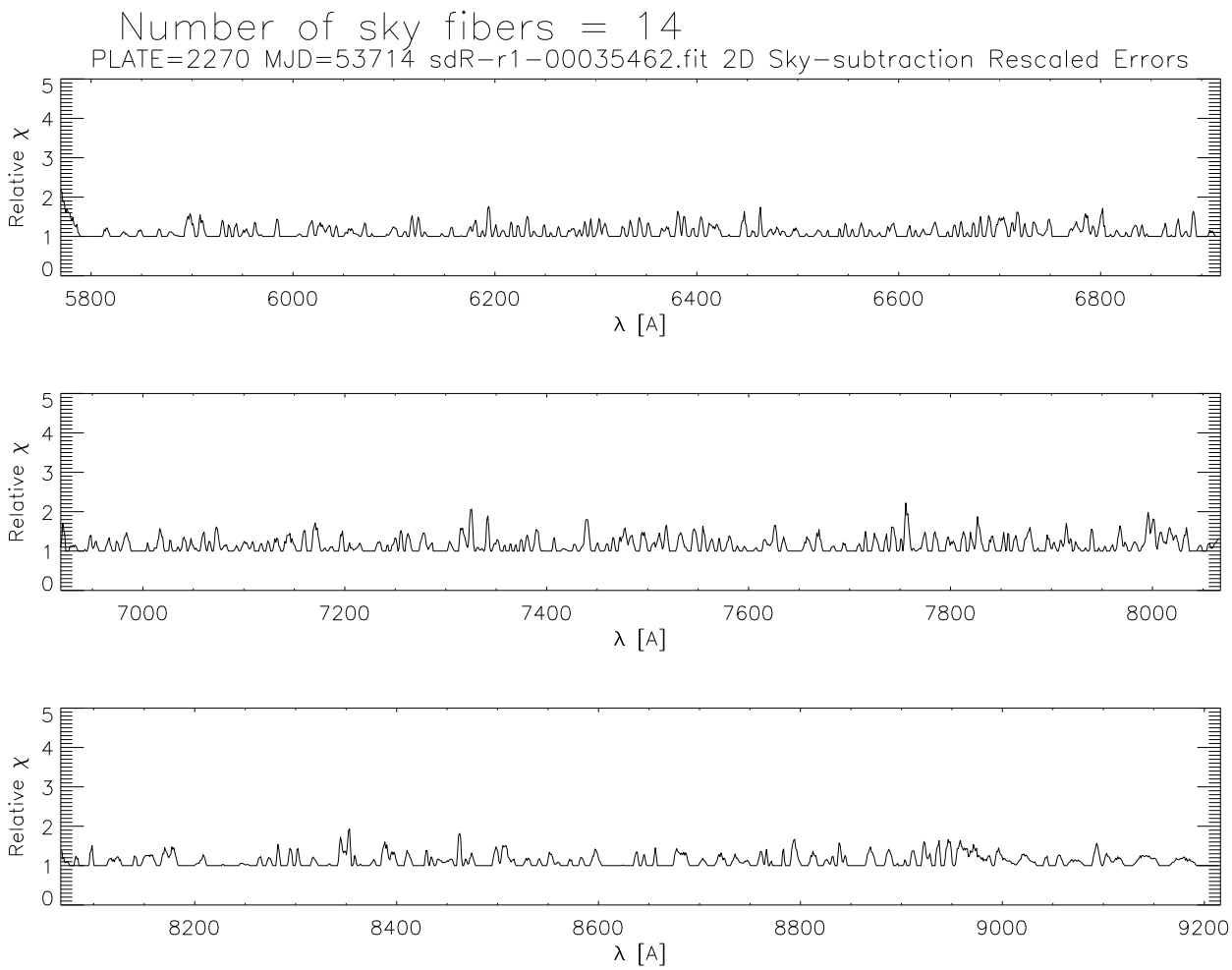

PLATE=2270 MJD=53714 sdR-r1-00035462.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

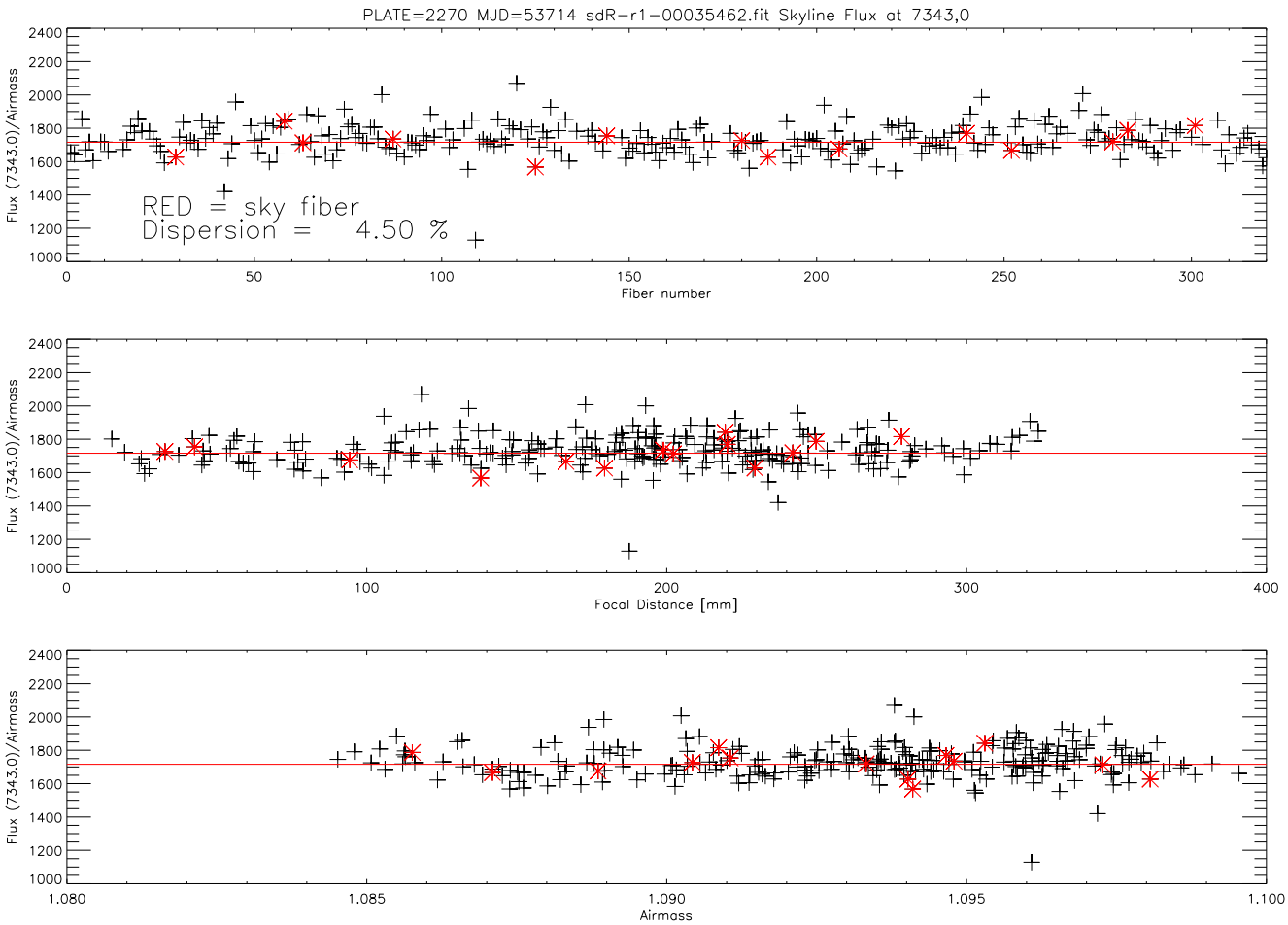

Number of sky fibers = 14
PLATE=2270 MJD=53714 sdR-r1-00035462.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

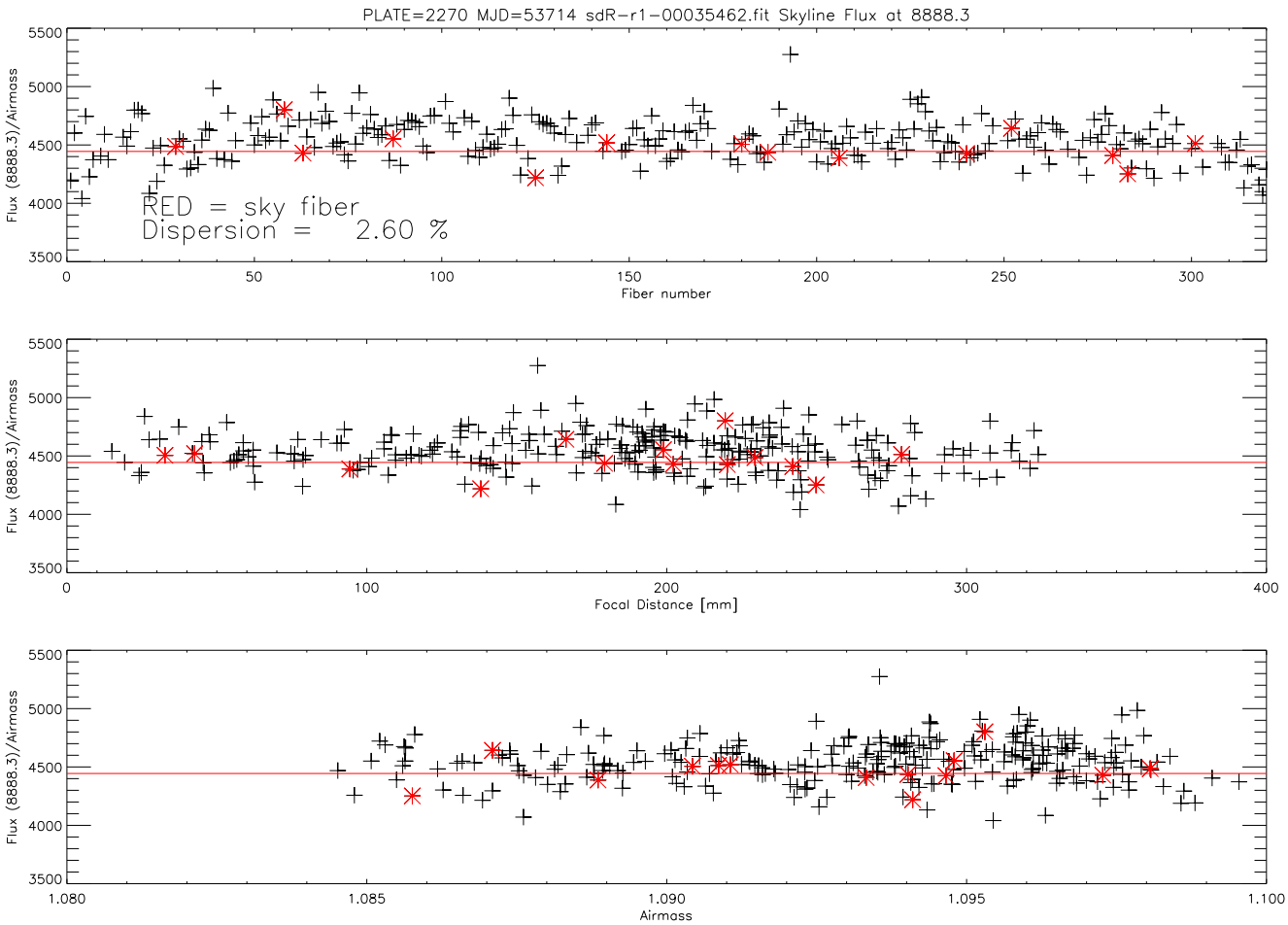

PLATE=2270 MJD=53714 sdR-r1-00035462.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

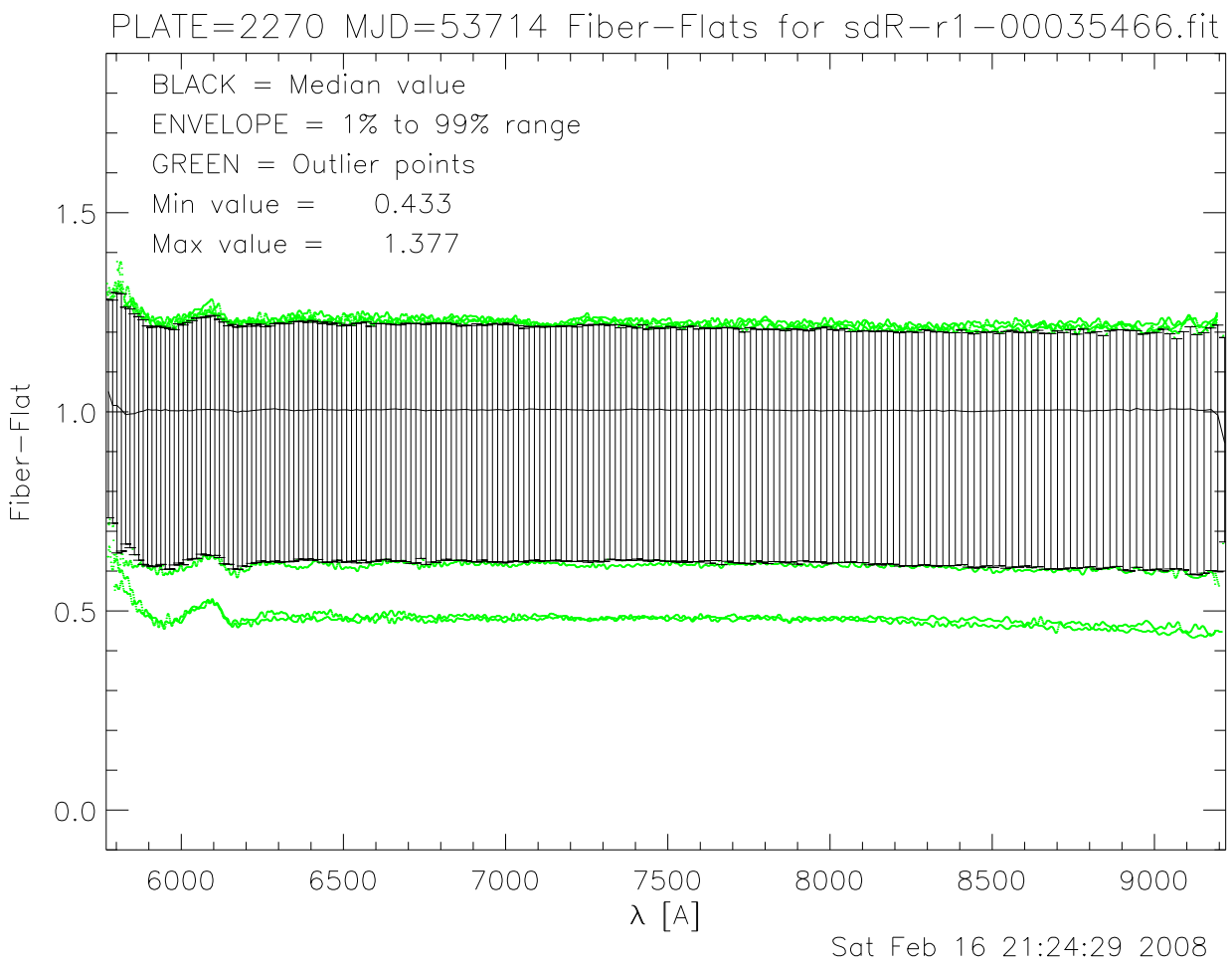

PLATE=2270 MJD=53714 sdR-r1-00035462.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

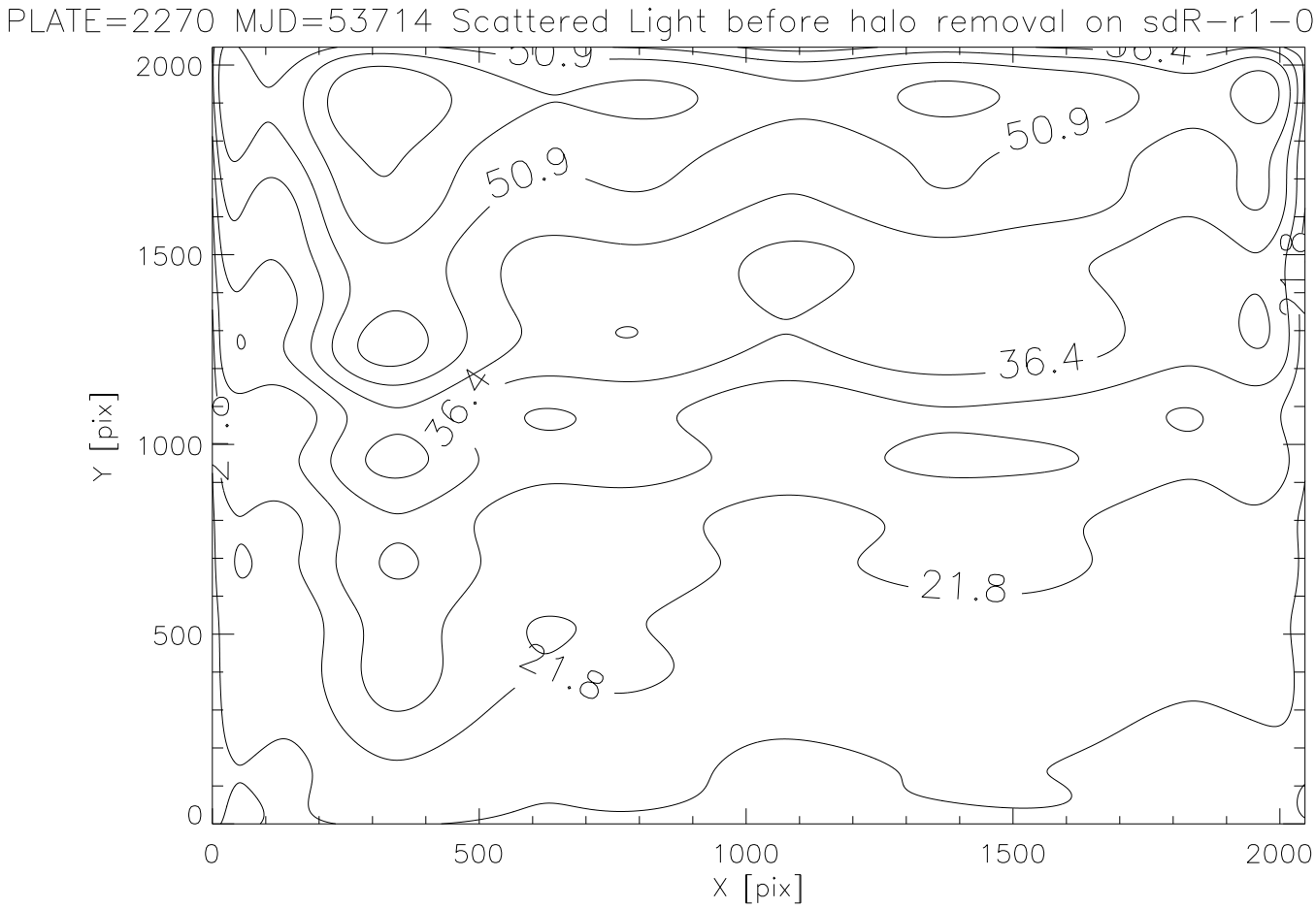

PLATE=2270 MJD=53714 sdR-r1-00035462.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
8820
8840
8860
8880
8900
λ [A]

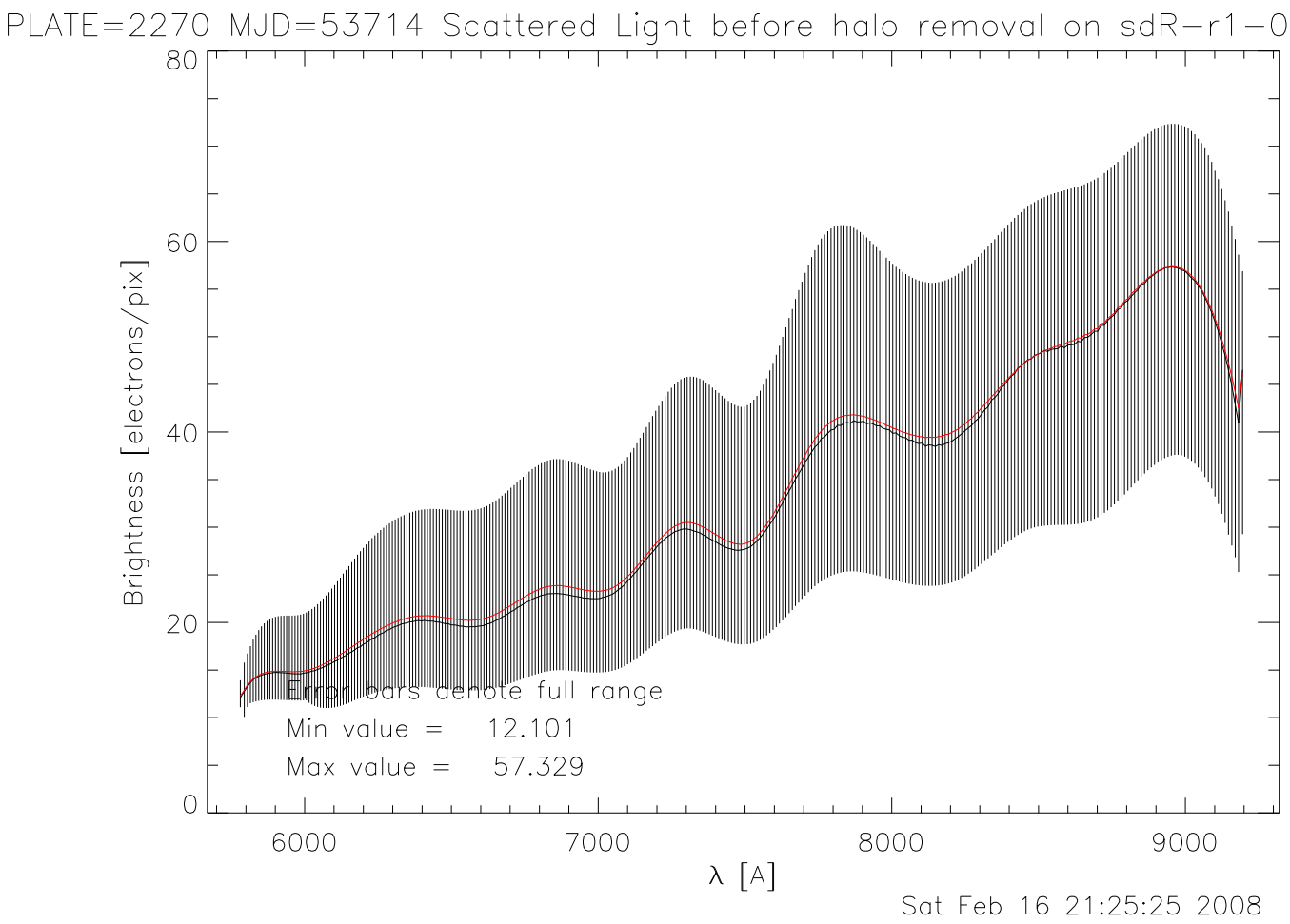

Number of sky fibers = 14
PLATE=2270 MJD=53714 sdR-r1-00035462.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

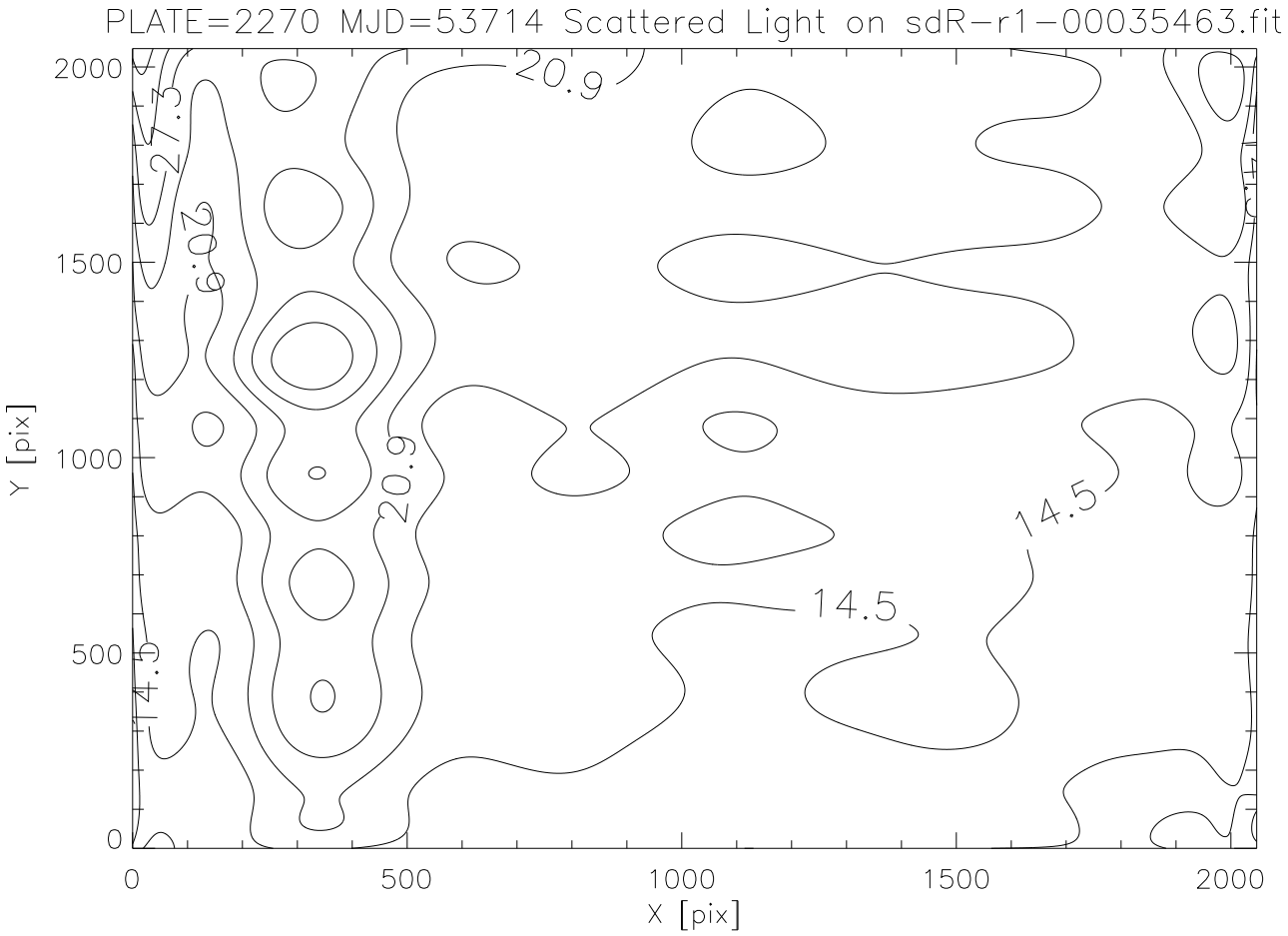

PLATE=2270 MJD=53714 sdR-r1-00035462.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 4.50 %
Fiber number
Focal Distance [mm]
Airmass

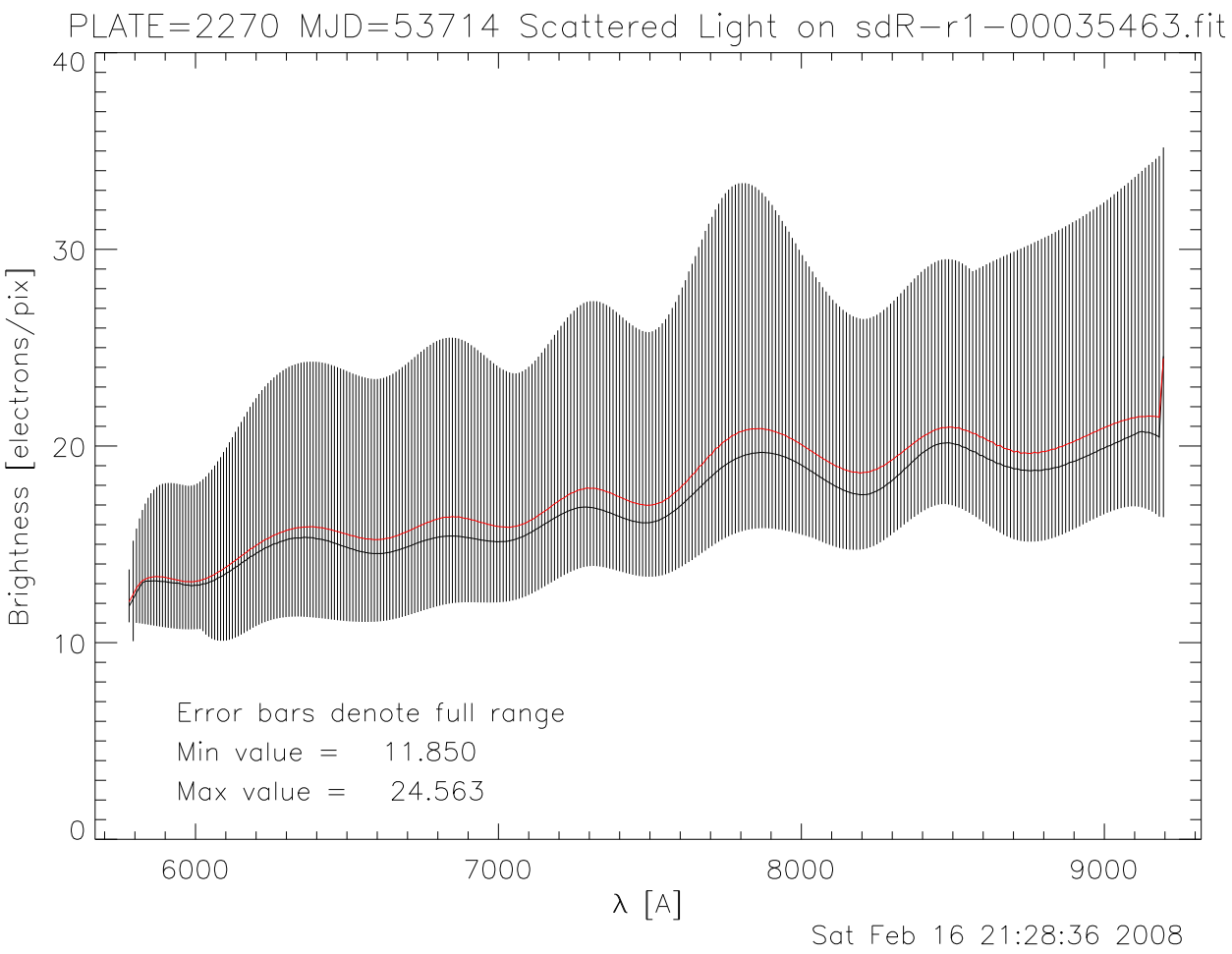

PLATE=2270 MJD=53714 sdR-r1-00035462.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.60 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

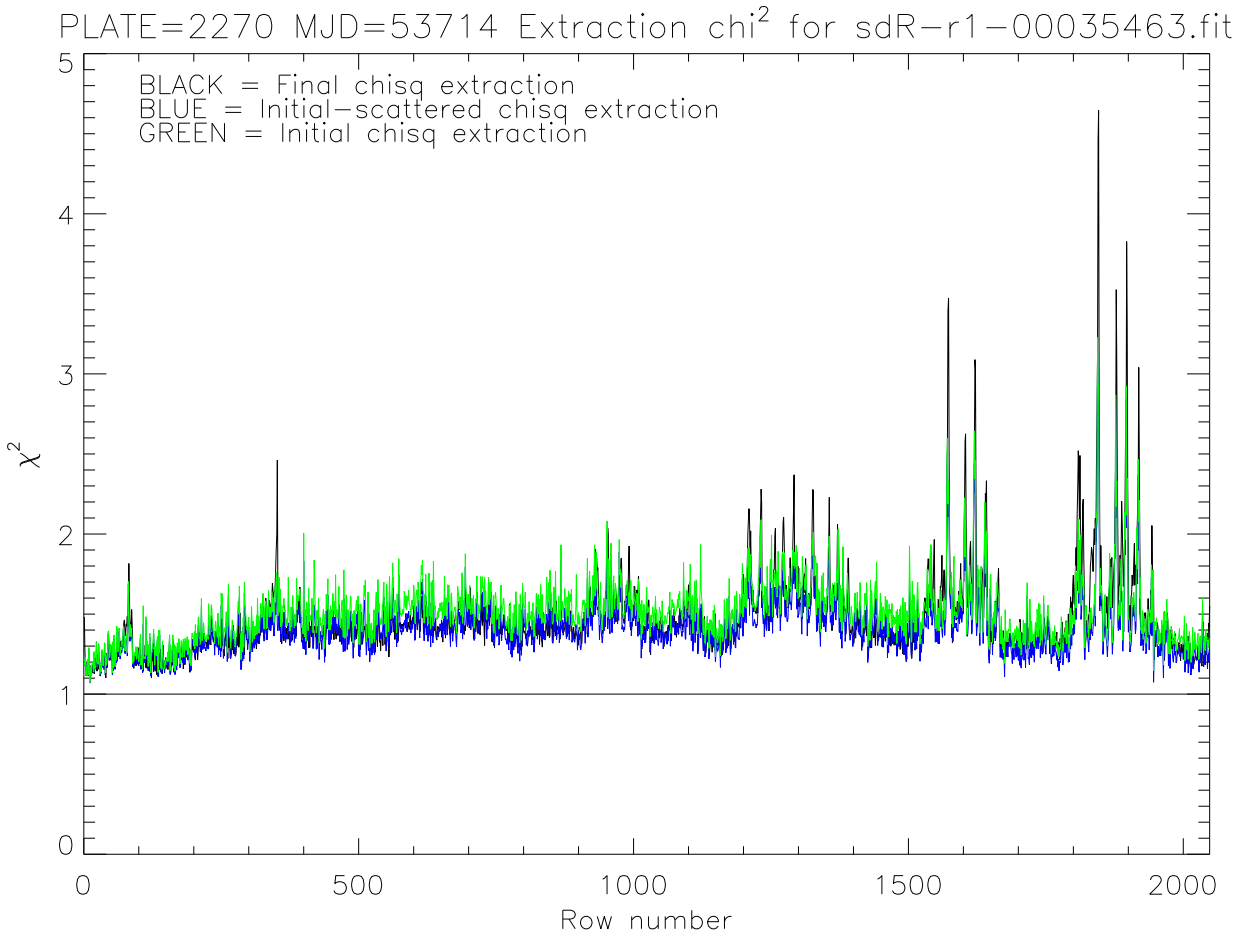

PLATE=2270 MJD=53714 Fiber−Flats for sdR−r1−00035466.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.433
Max value = 1.377
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sat Feb 16 21:24:29 2008

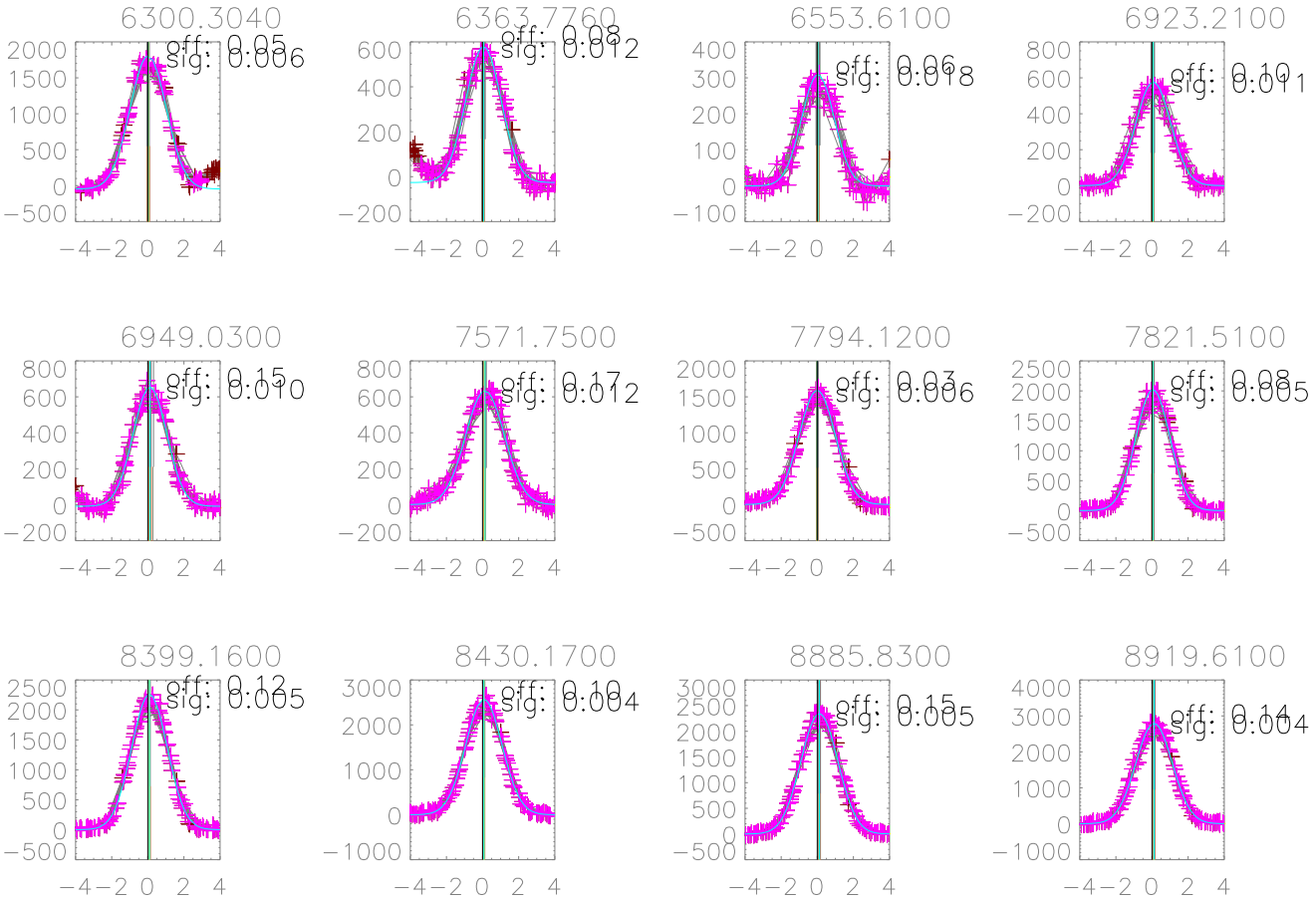

PLATE=2270 MJD=53714 Scattered Light before halo removal on sdR-r1-00035463.fi
50.9
50.9
50.9
36.4
36.4
21.8
21.8
0
0
0
0
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

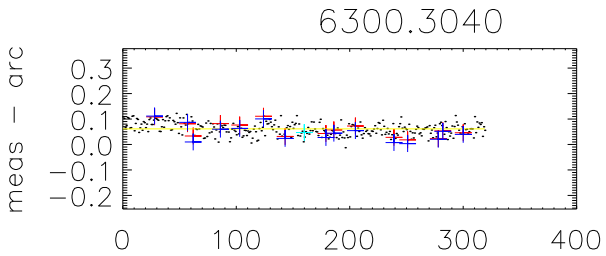

PLATE=2270 MJD=53714 Scattered Light before halo removal on sdR-r1-00035463.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 12.101
Max value = 57.329
Sat Feb 16 21:25:25 2008

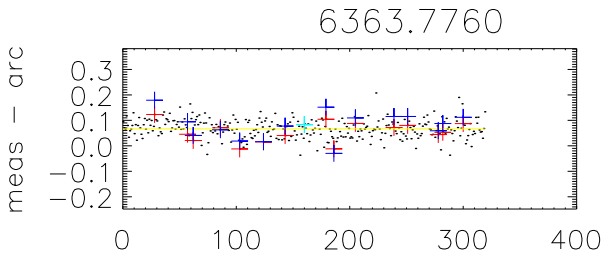

PLATE=2270 MJD=53714 Scattered Light on sdR-r1-00035463.fit
20.9
27.3
6.02
0
20.9
14.5
14.5
14.5
0
500
1000
1500
2000
Y [pix]
X [pix]

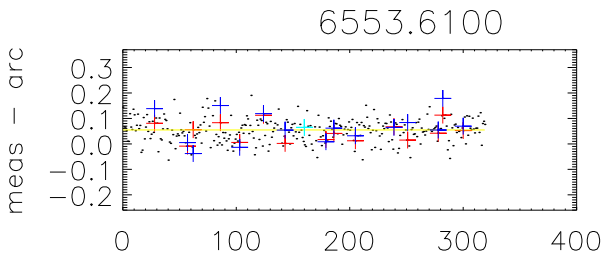

PLATE=2270 MJD=53714 Scattered Light on sdR-r1-00035463.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 11.850
Max value = 24.563
Sat Feb 16 21:28:36 2008

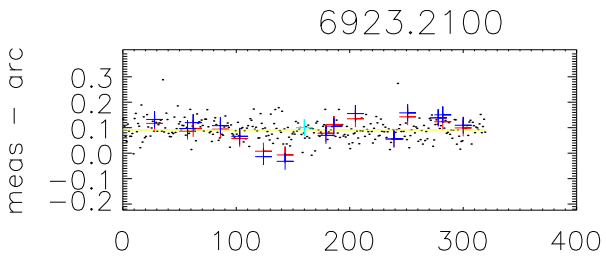

PLATE=2270 MJD=53714 Extraction chi^2 for sdR−r1−00035463.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

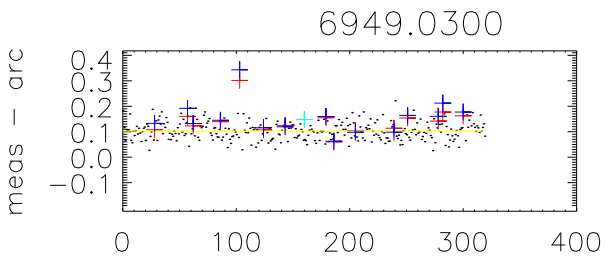

6300.3040
off: 0.05
sig: 0.006
6363.7760
off: 0.08
sig: 0.012
6553.6100
off: 0.06
sig: 0.018
6923.2100
off: 0.10
sig: 0.011
6949.0300
off: 0.15
sig: 0.010
7571.7500
off: 0.17
sig: 0.012
7794.1200
off: 0.03
sig: 0.006
7821.5100
off: 0.08
sig: 0.005
8399.1600
off: 0.12
sig: 0.005
8430.1700
off: 0.10
sig: 0.004
8885.8300
off: 0.15
sig: 0.005
8919.6100
off: 0.14
sig: 0.004

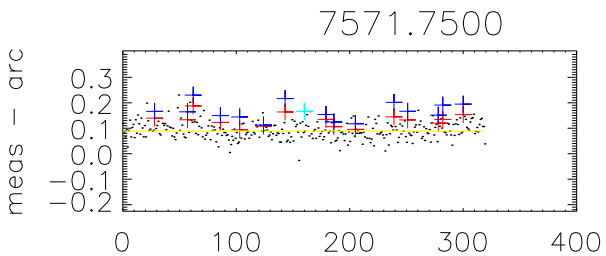

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

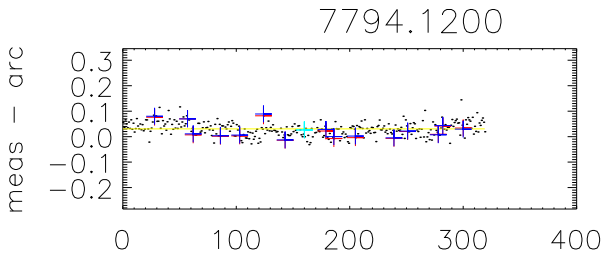

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

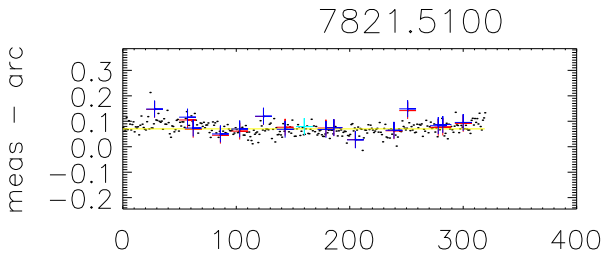

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

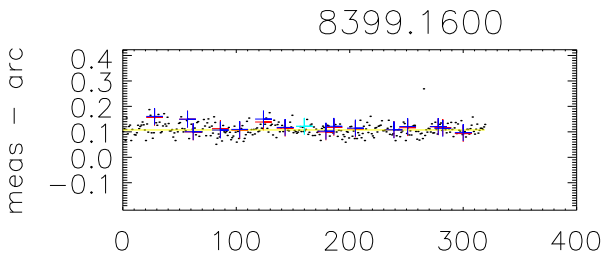

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

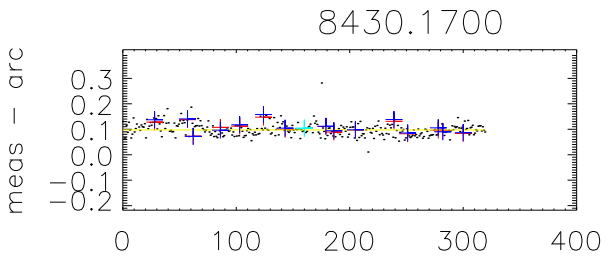

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

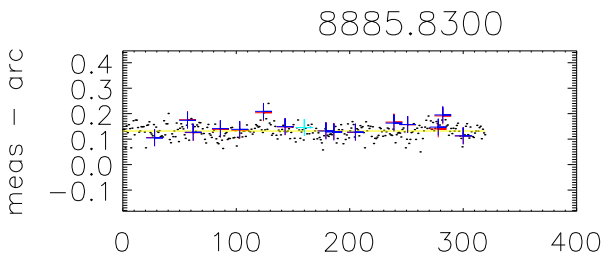

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

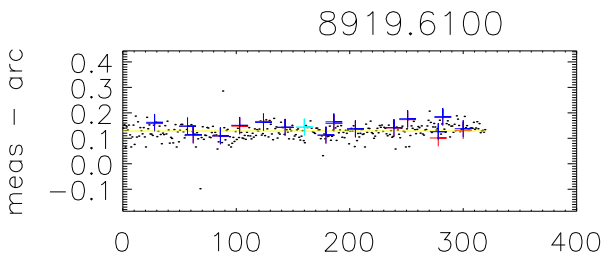

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

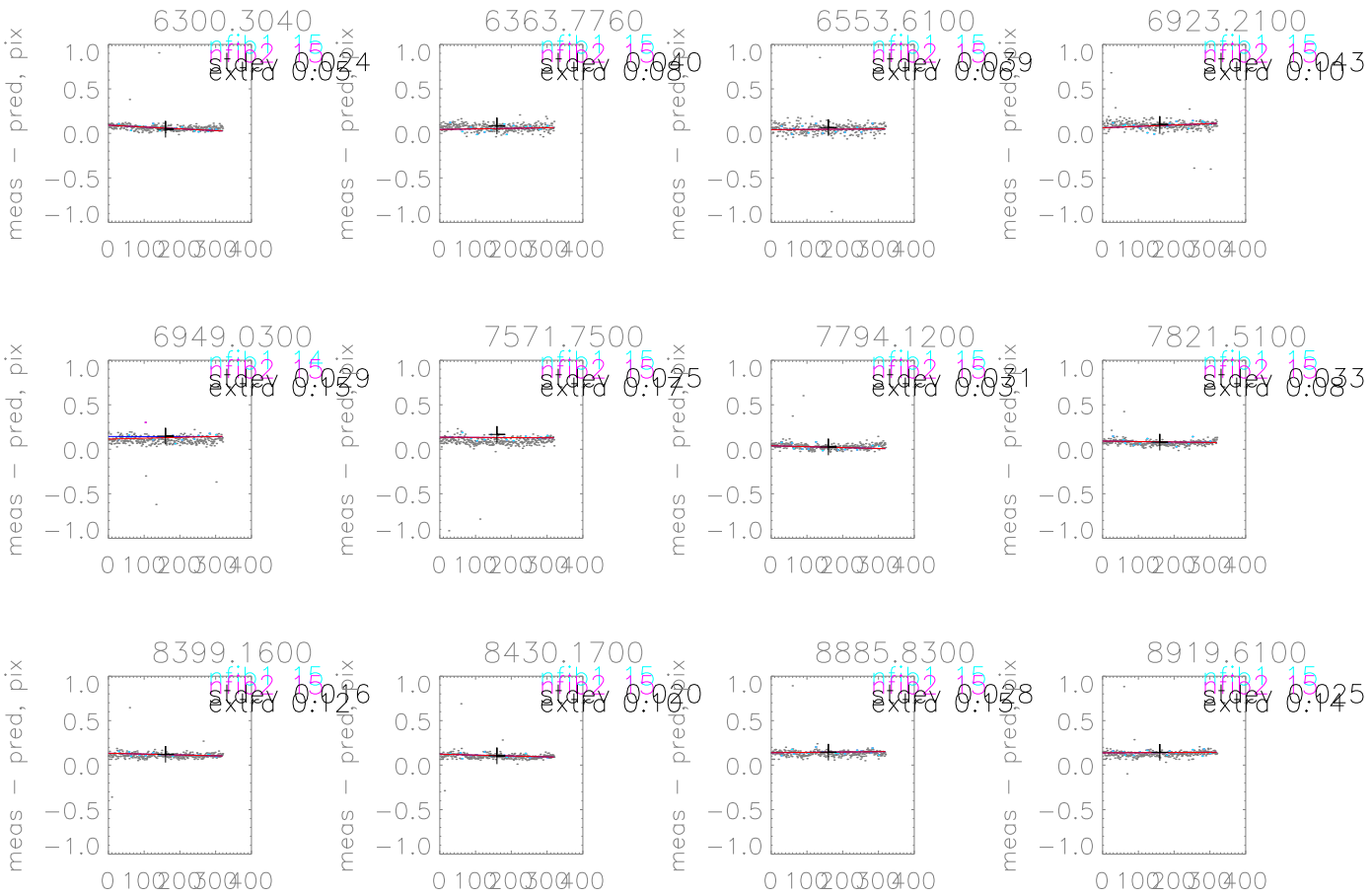

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

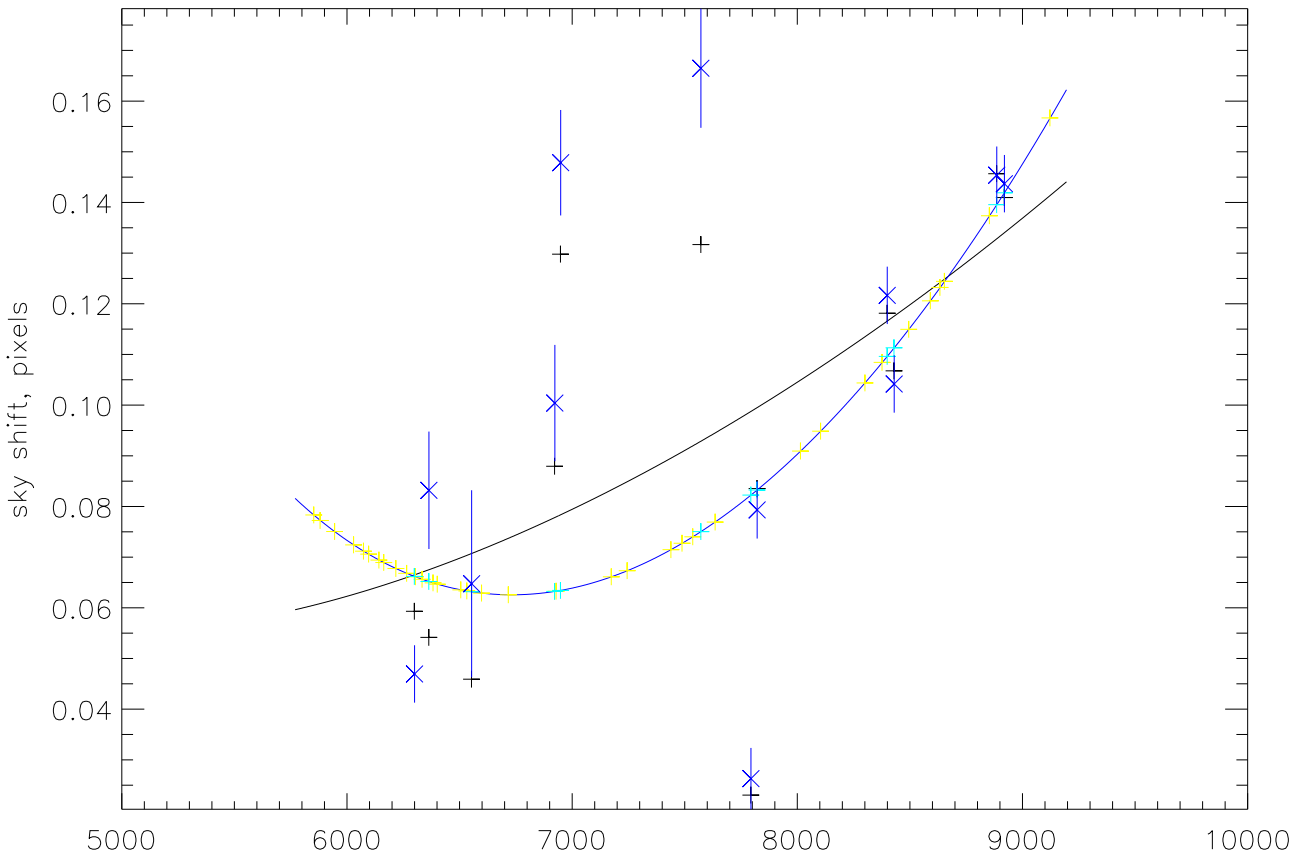

8399.1600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

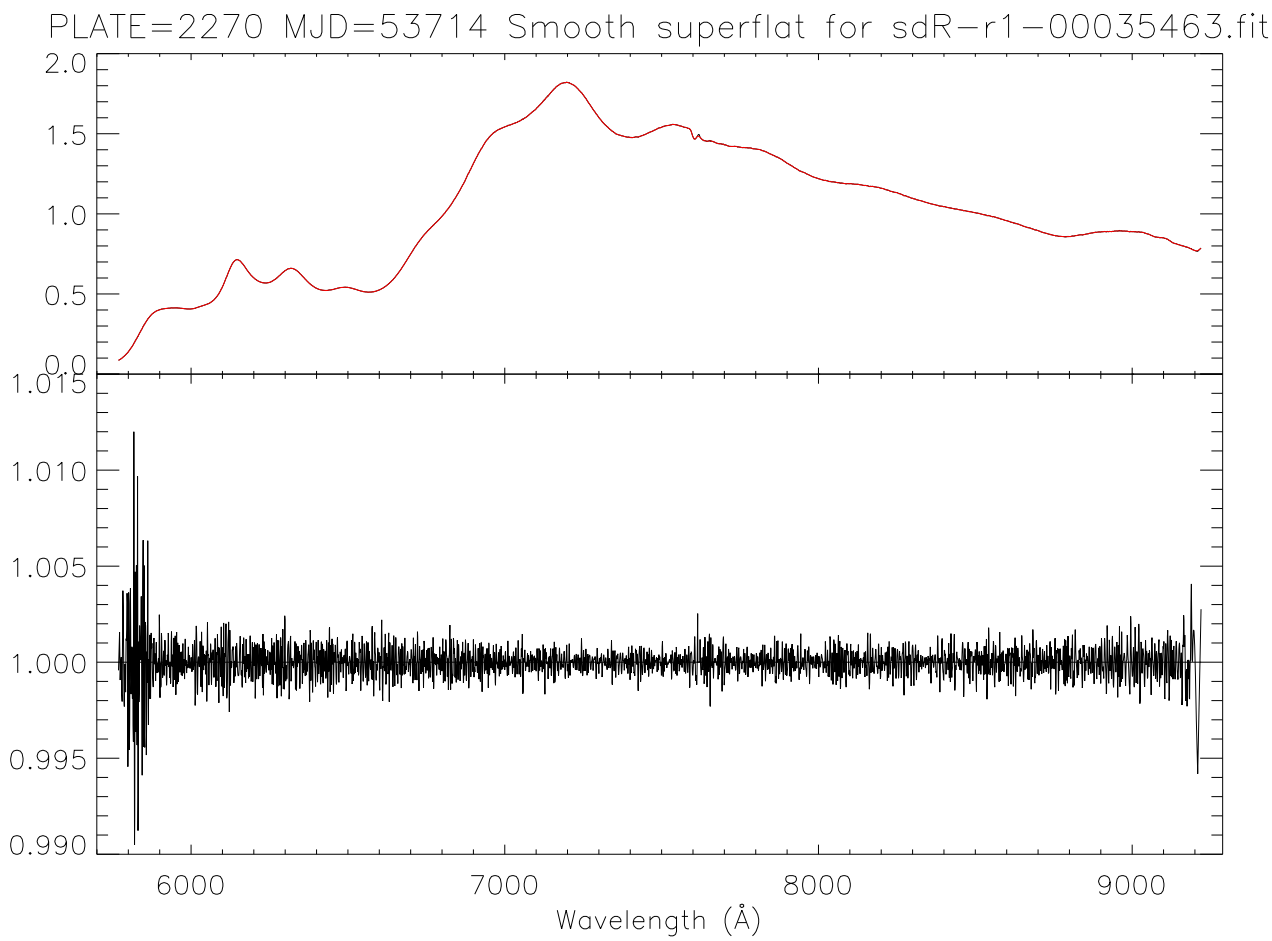

8885.8300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

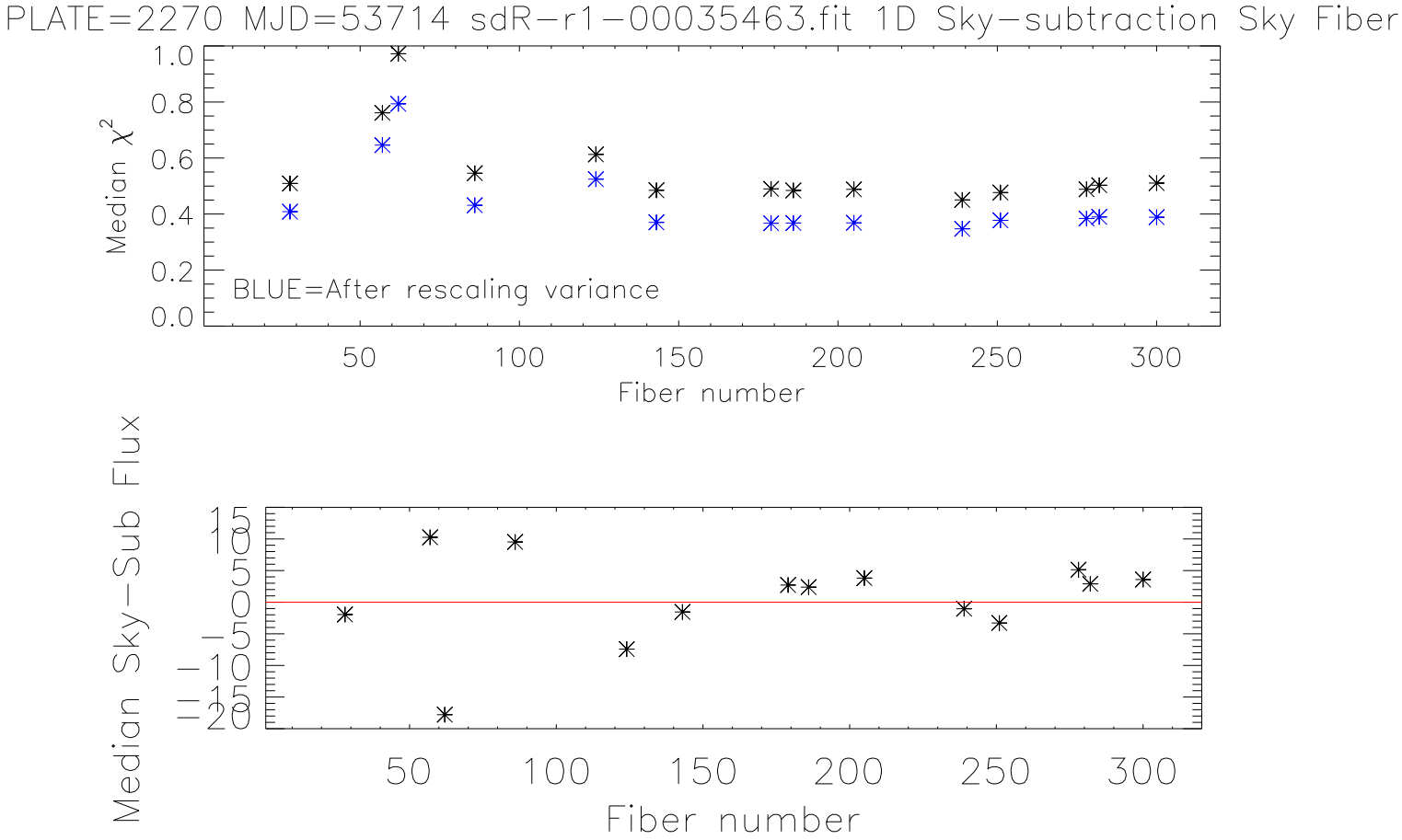

8919.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

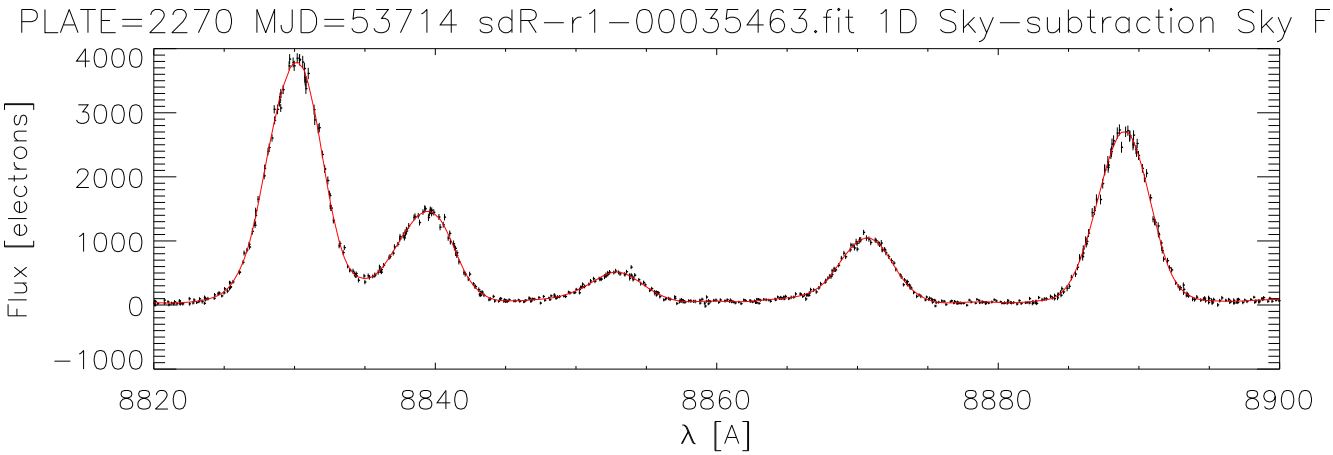

6300.3040
stdev 0.024
extra 0.05
6363.7760
stdev 0.040
extra 0.08
6553.6100
stdev 0.039
extra 0.06
6923.2100
stdev 0.043
extra 0.10
6949.0300
stdev 0.029
extra 0.13
7571.7500
stdev 0.025
extra 0.17
7794.1200
stdev 0.031
extra 0.03
7821.5100
stdev 0.033
extra 0.08
8399.1600
stdev 0.016
extra 0.12
8430.1700
stdev 0.020
extra 0.16
8885.8300
stdev 0.028
extra 0.13
8919.6100
stdev 0.025
extra 0.14
meas − pred, pix
mfb1 15
mfb2 15
mfb1 14

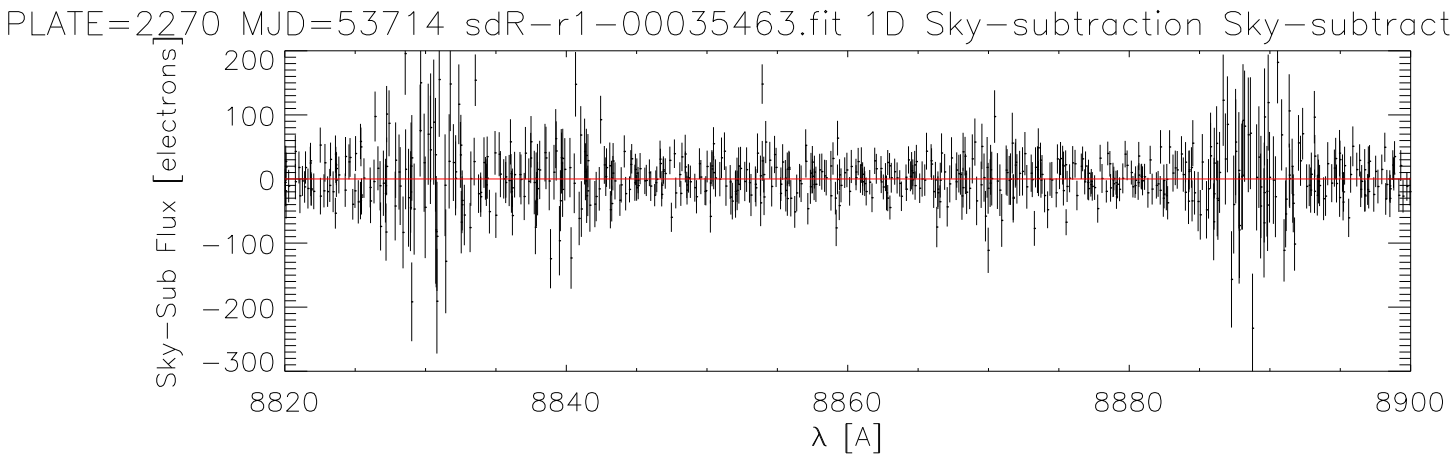

sky shift, pixels
0.16
0.14
0.12
0.10
0.08
0.06
0.04
5000
6000
7000
8000
9000
10000

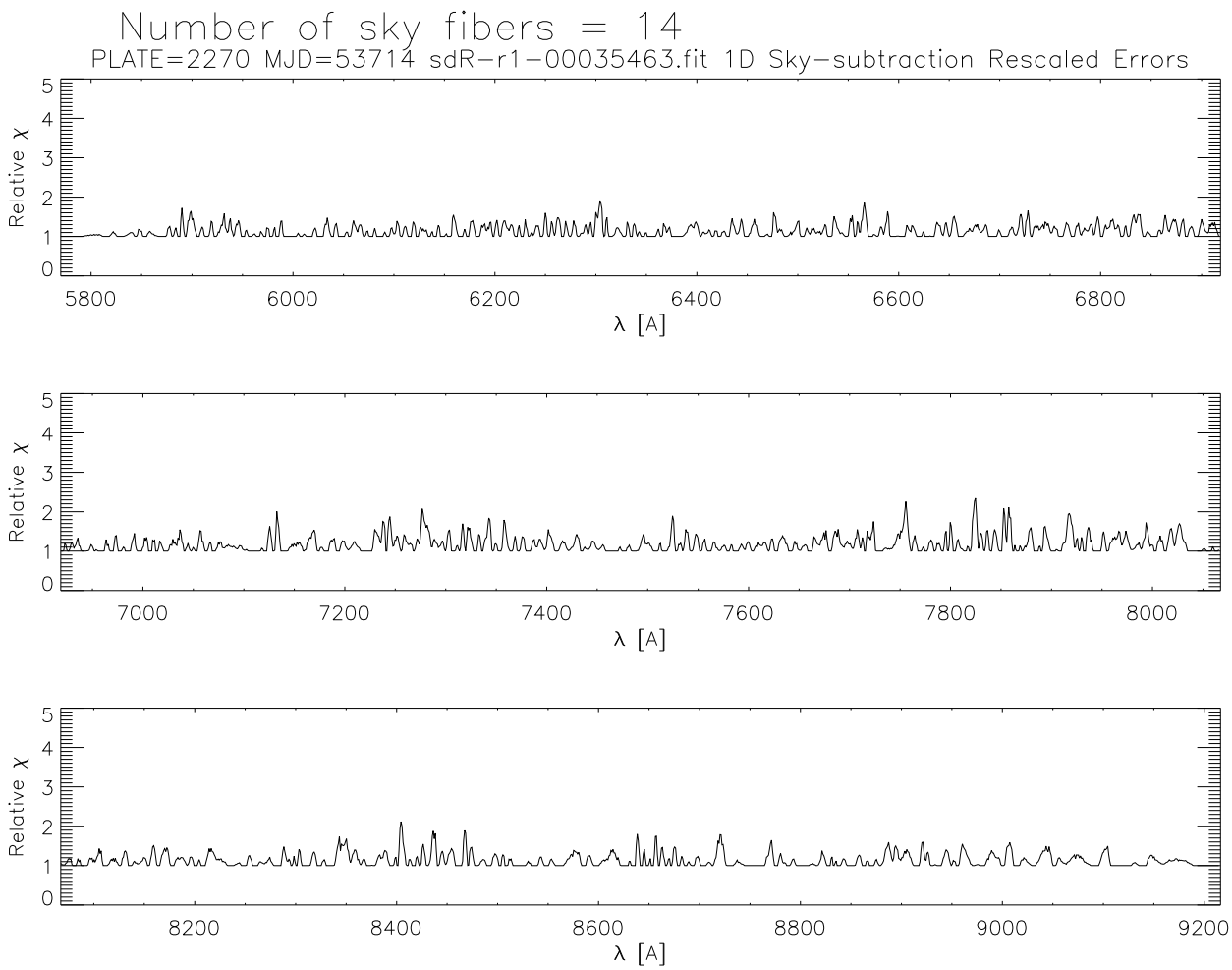
es= 0.0000

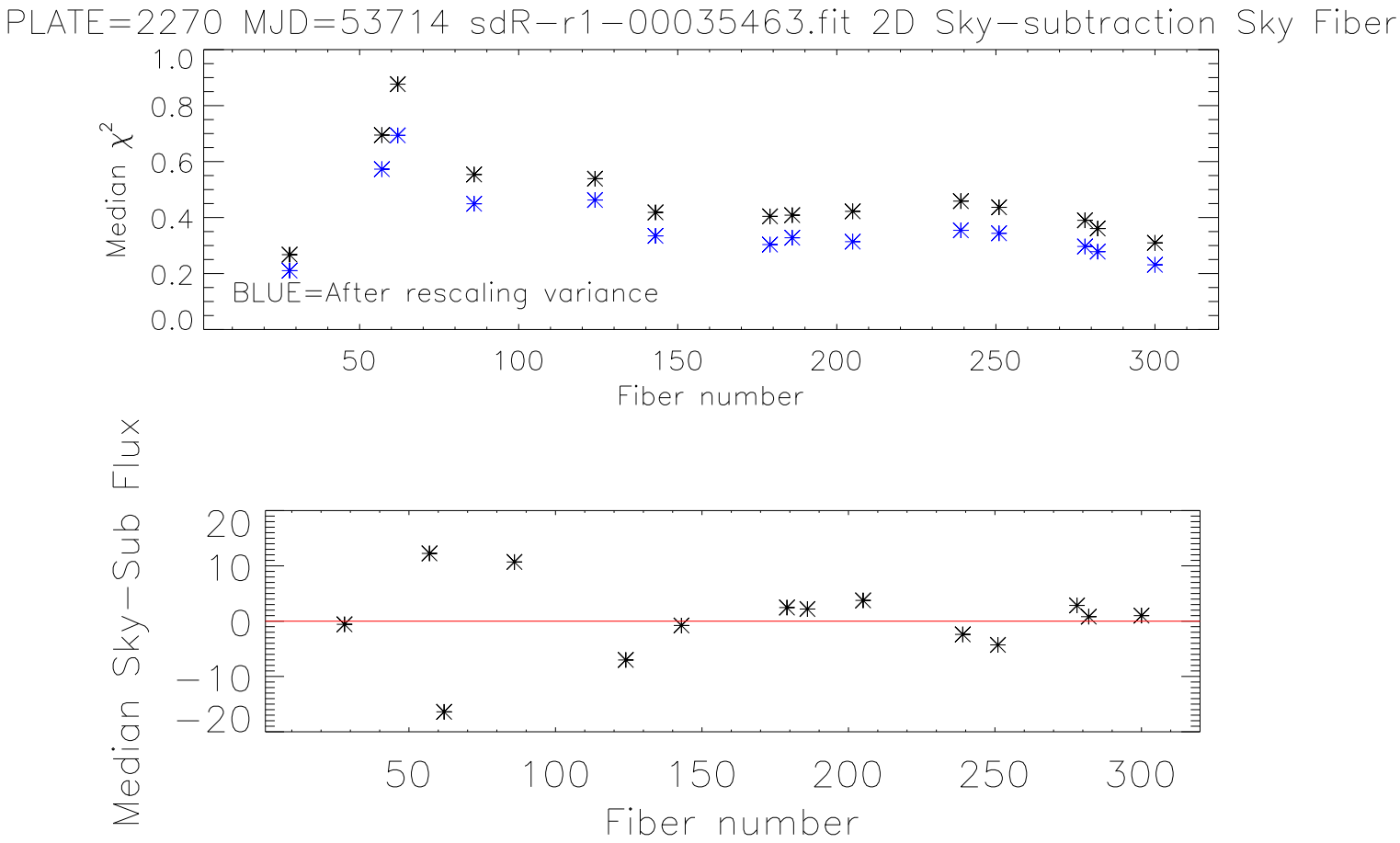

PLATE=2270 MJD=53714 Smooth superflat for sdR-r1-00035463.fit
2.0
1.5
1.0
0.5
0.0
1.015
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

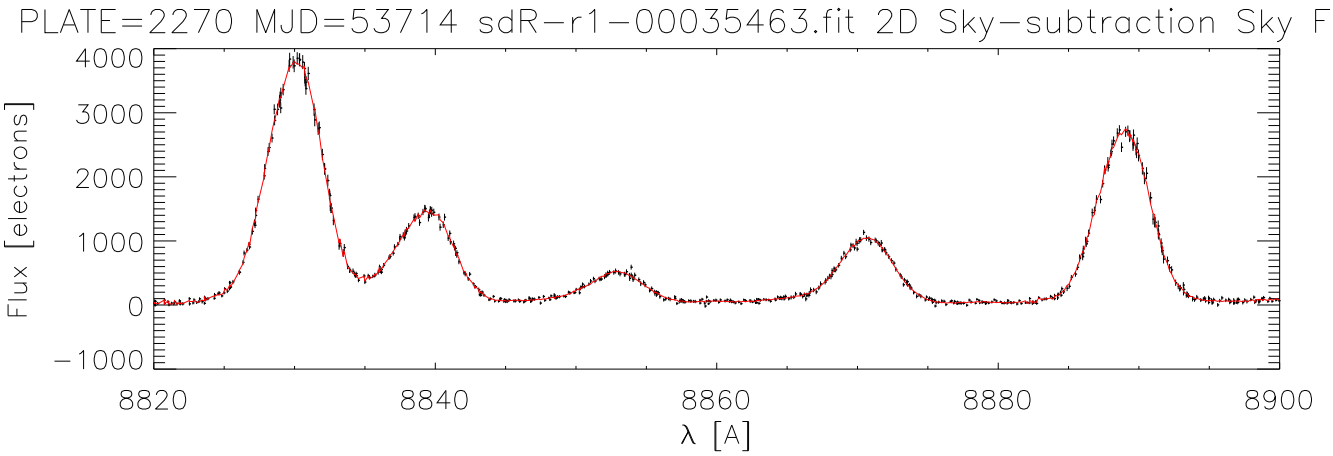

PLATE=2270 MJD=53714 sdR-r1-00035463.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

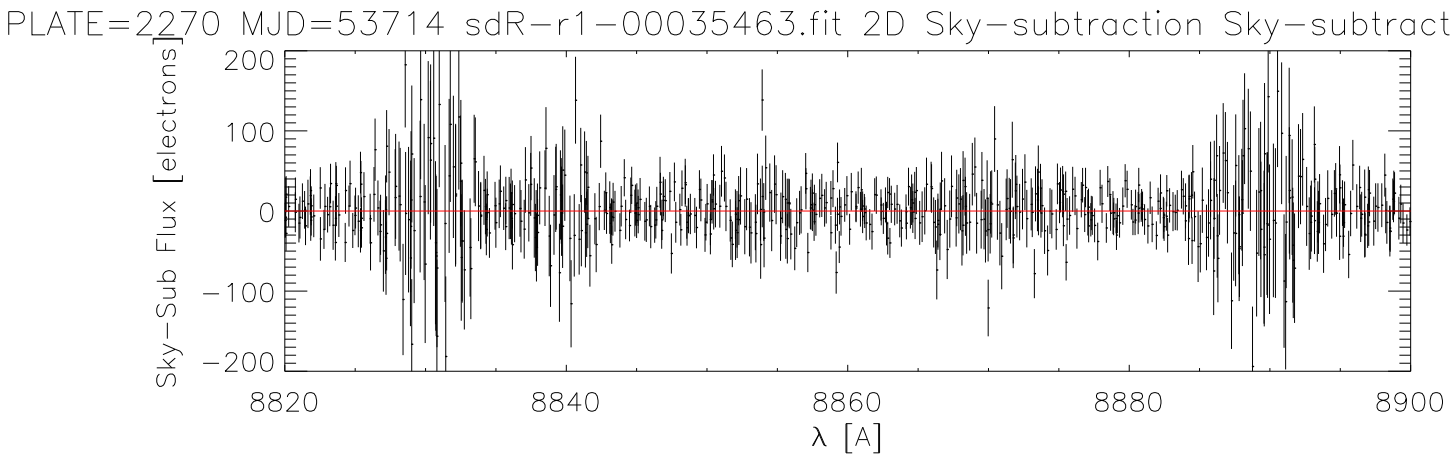

PLATE=2270 MJD=53714 sdR-r1-00035463.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

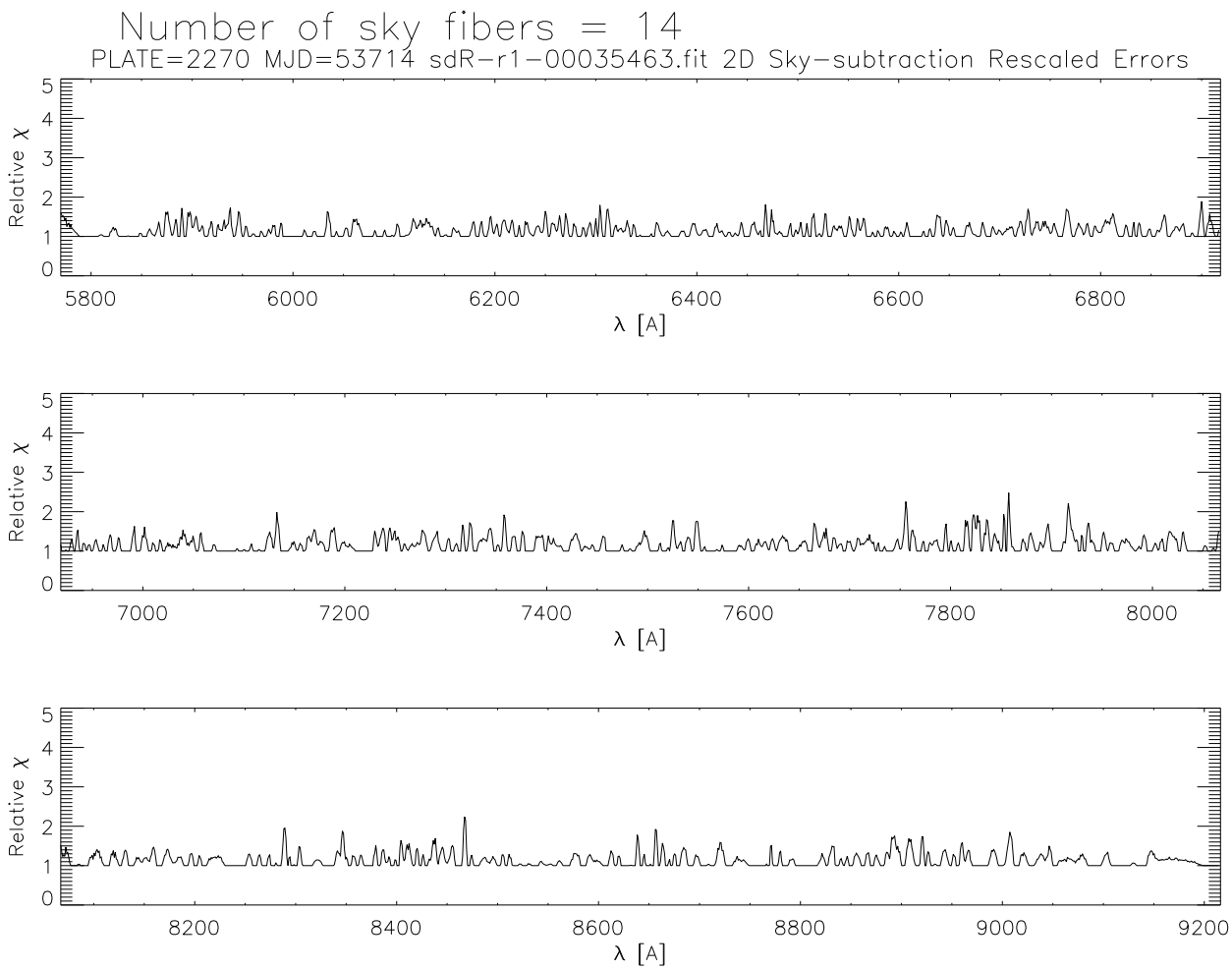

PLATE=2270 MJD=53714 sdR-r1-00035463.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

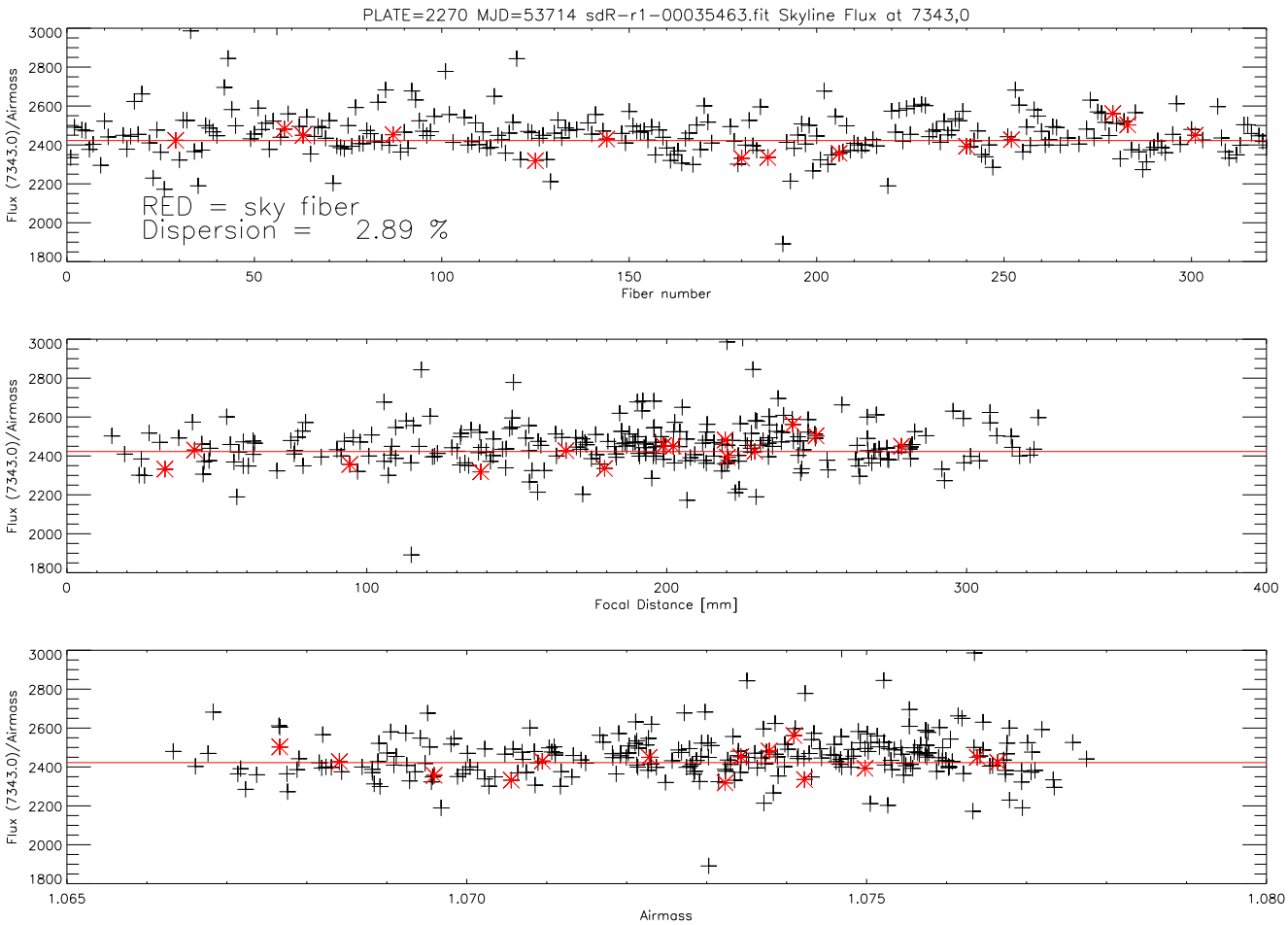

Number of sky fibers = 14
PLATE=2270 MJD=53714 sdR-r1-00035463.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

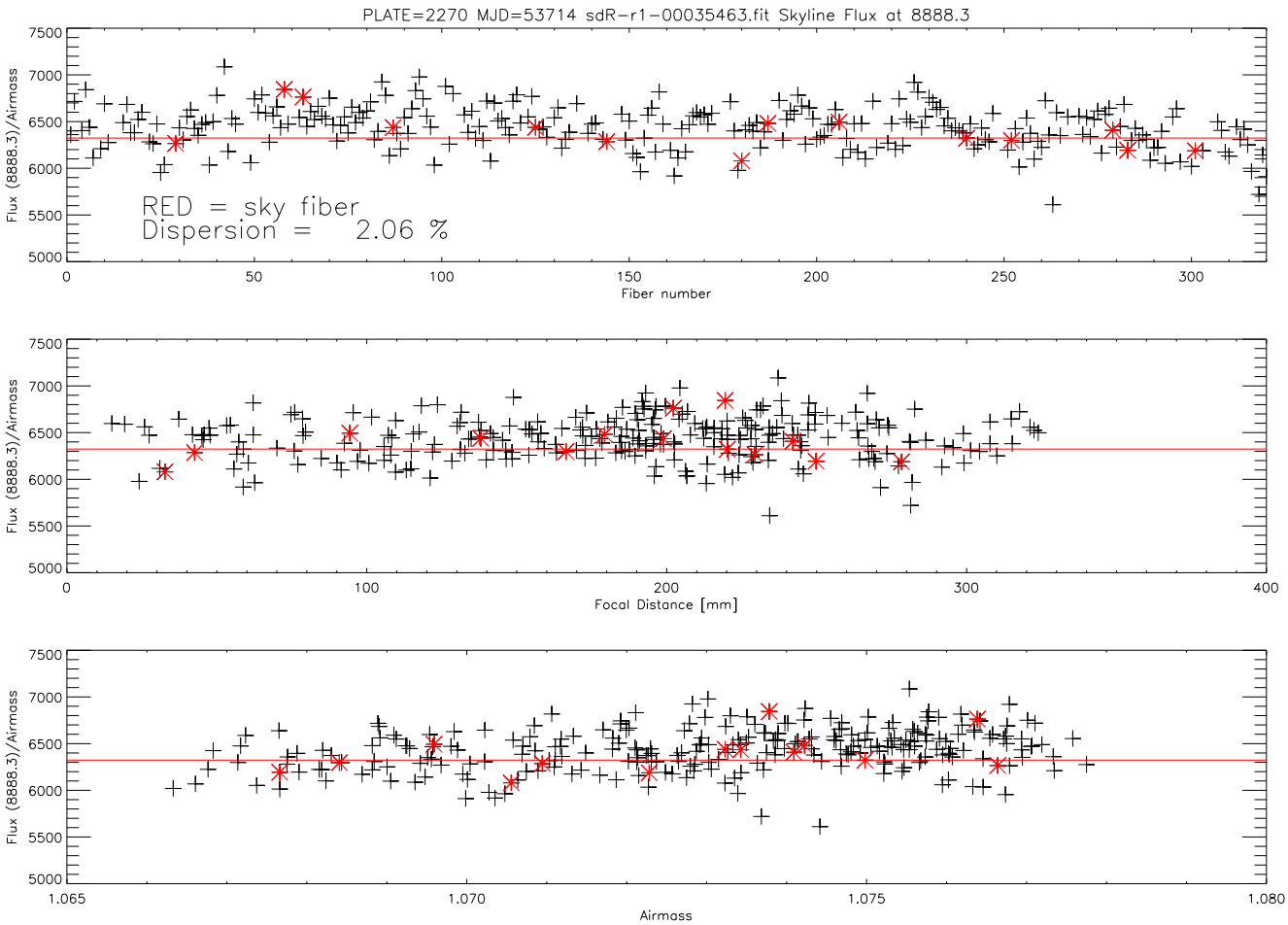

PLATE=2270 MJD=53714 sdR-r1-00035463.fit 2D Sky-subtraction Sky Fibers
Median χ^2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
10
0
-10
-20
50
100
150
200
250
300
Fiber number

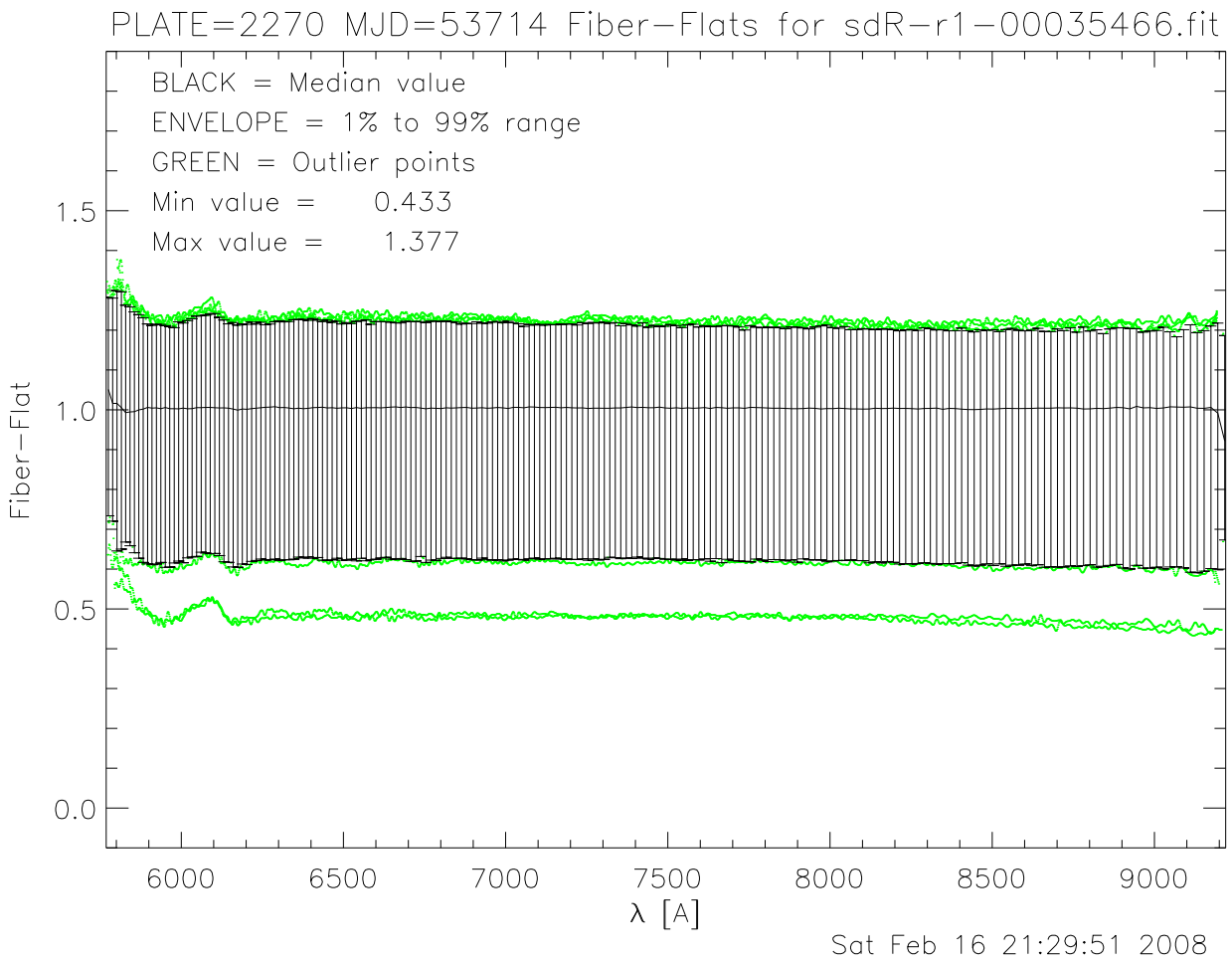

PLATE=2270 MJD=53714 sdR-r1-00035463.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
−1000
8820
8840
8860
8880
8900
λ [A]

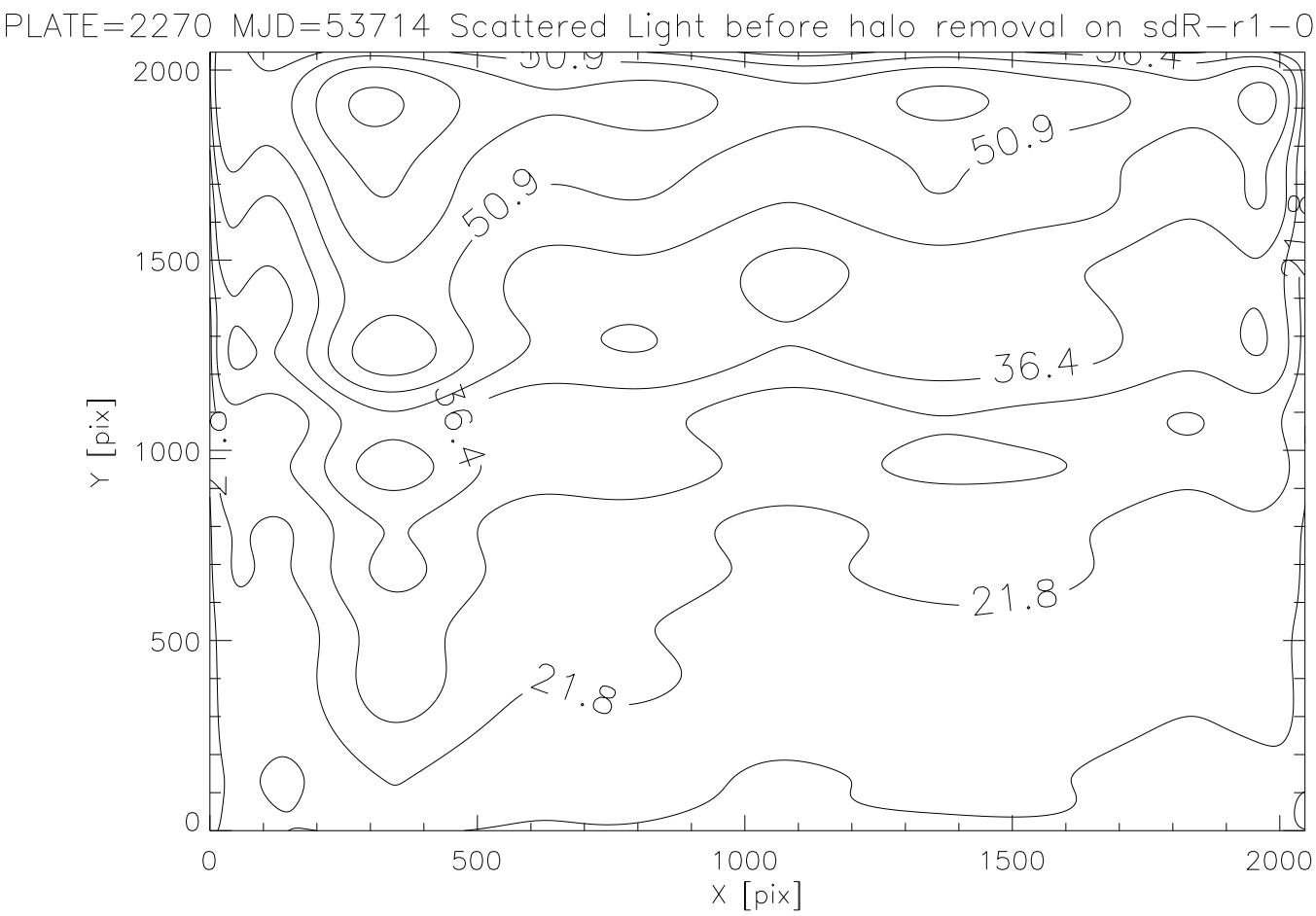

PLATE=2270 MJD=53714 sdR-r1-00035463.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
−100
−200
8820
8840
8860
8880
8900
λ [A]

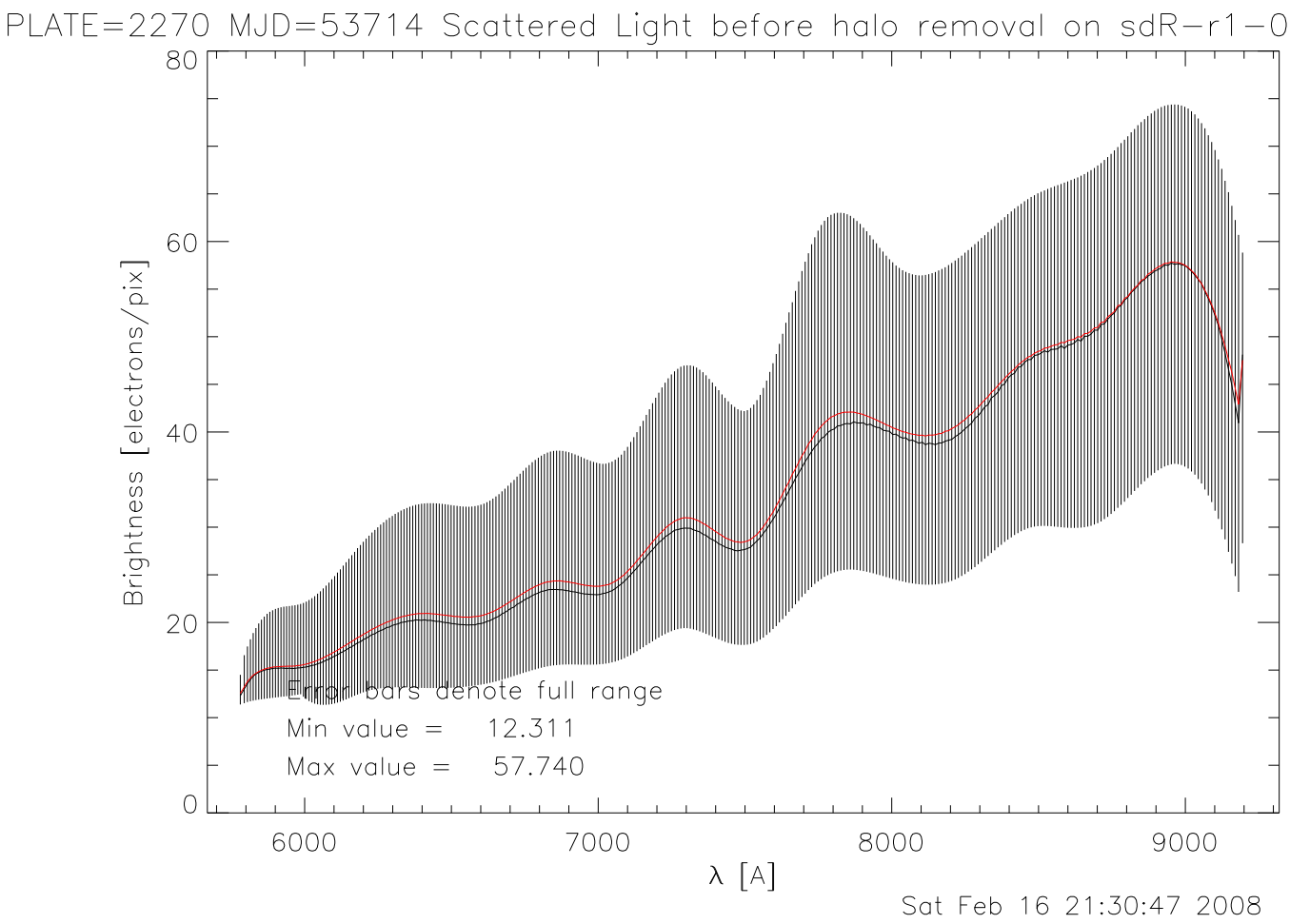

Number of sky fibers = 14
PLATE=2270 MJD=53714 sdR-r1-00035463.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

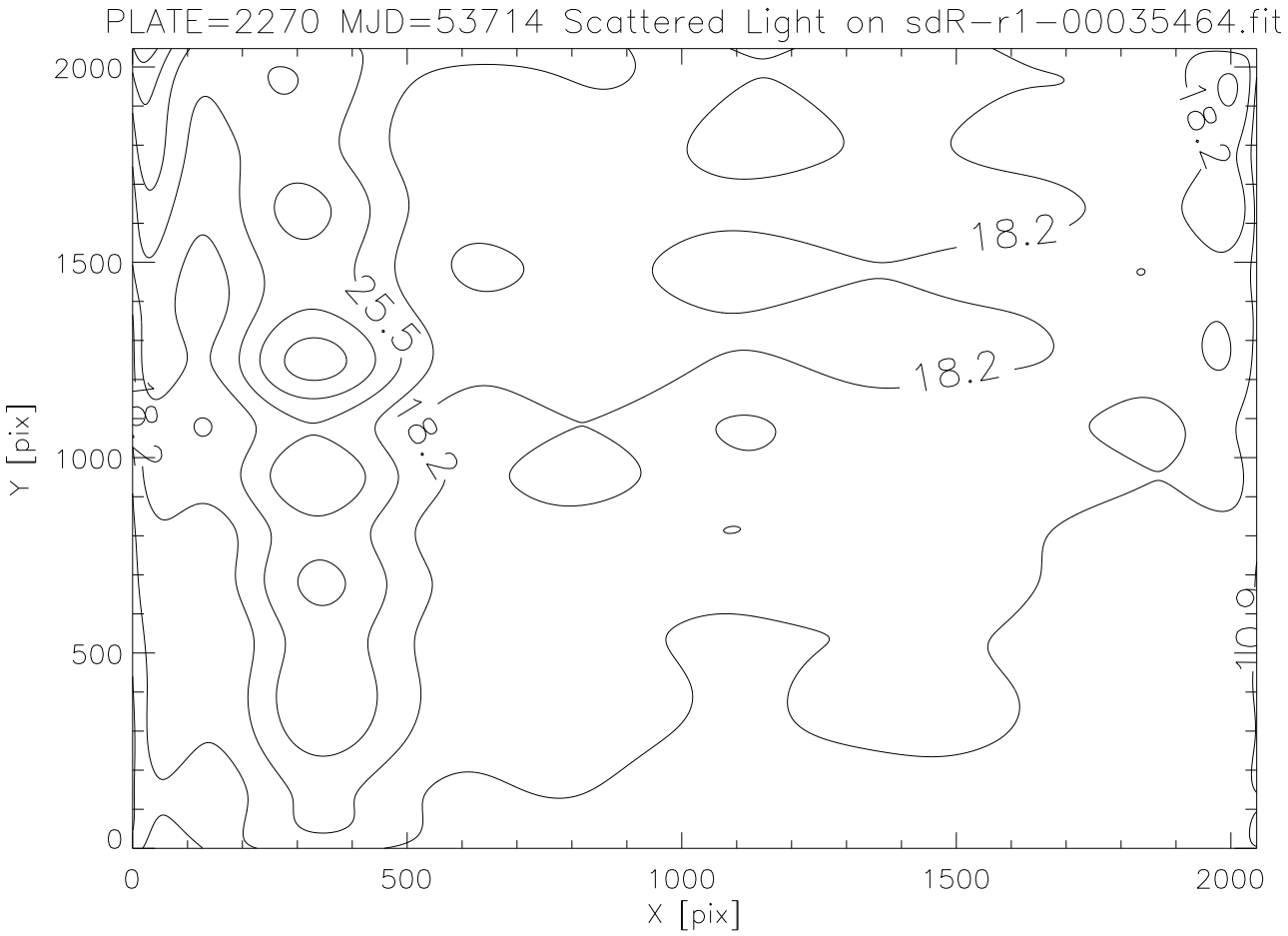

PLATE=2270 MJD=53714 sdR-r1-00035463.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.89 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

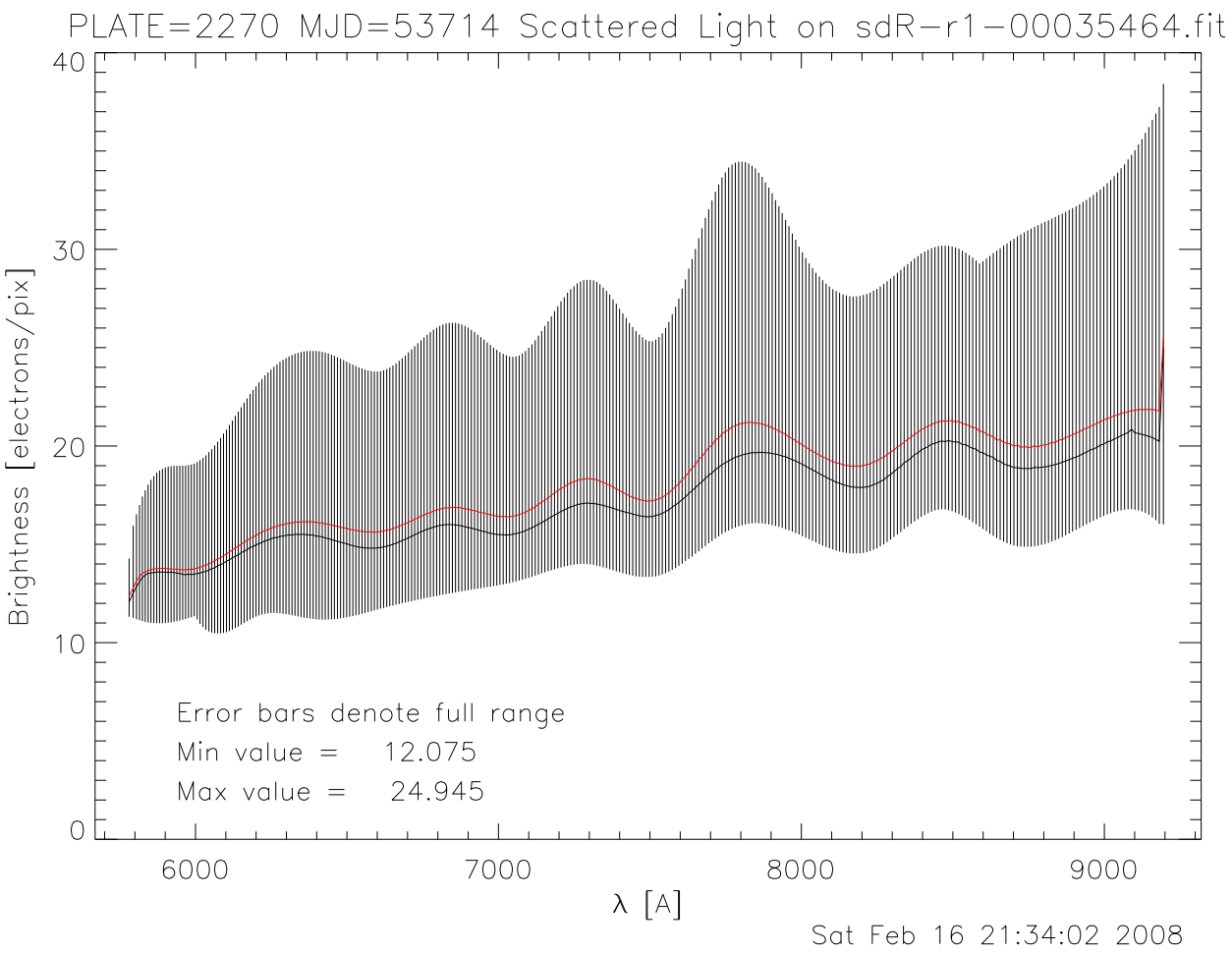

PLATE=2270 MJD=53714 sdR-r1-00035463.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.06 %
Fiber number
Focal Distance [mm]
Airmass

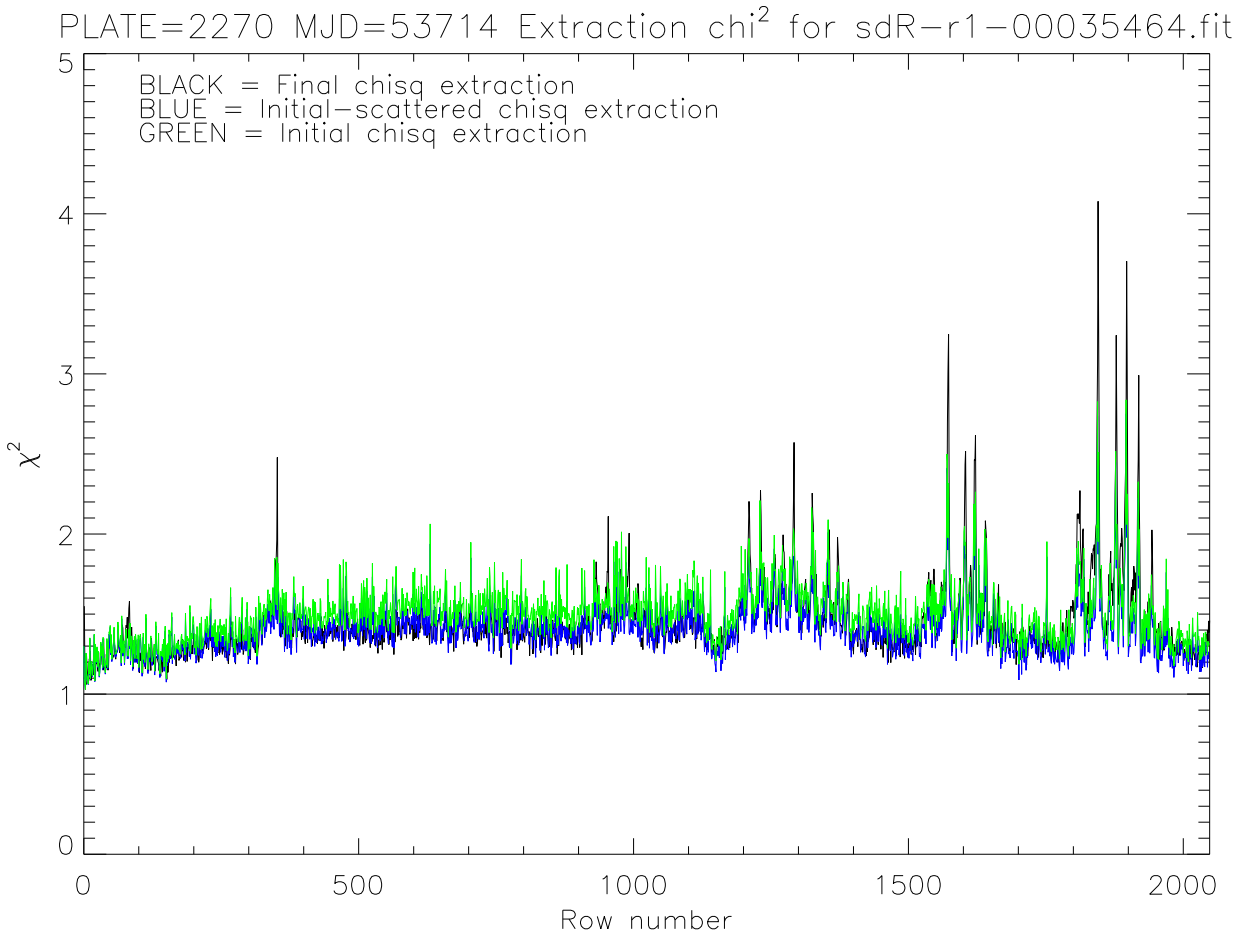

PLATE=2270 MJD=53714 Fiber−Flats for sdR−r1−00035466.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.433
Max value = 1.377
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sat Feb 16 21:29:51 2008

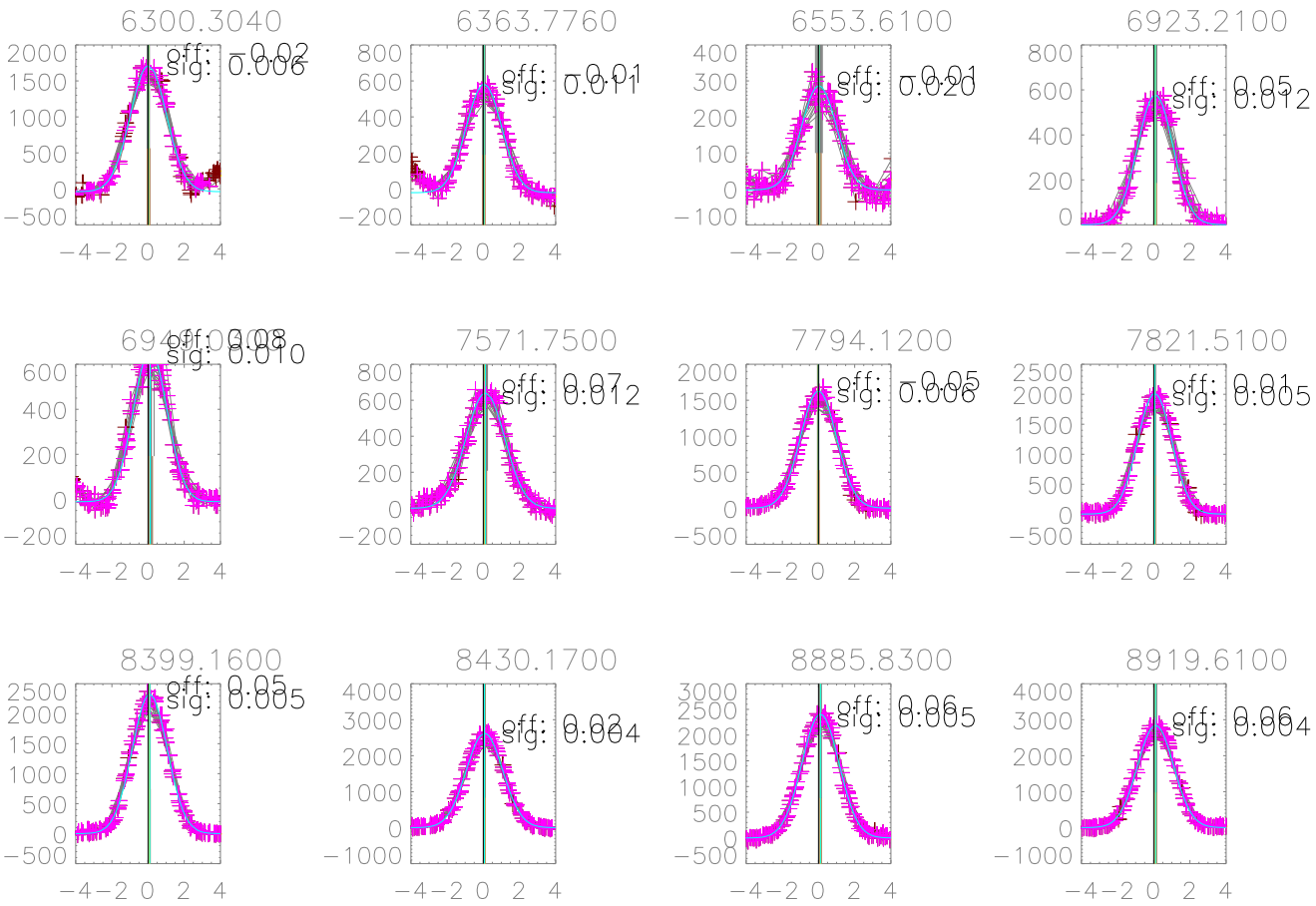

PLATE=2270 MJD=53714 Scattered Light before halo removal on sdR-r1-00035464.fi
50.9
50.9
50.9
36.4
36.4
21.8
21.8
Y [pix]
X [pix]
0
500
1000
1500
2000

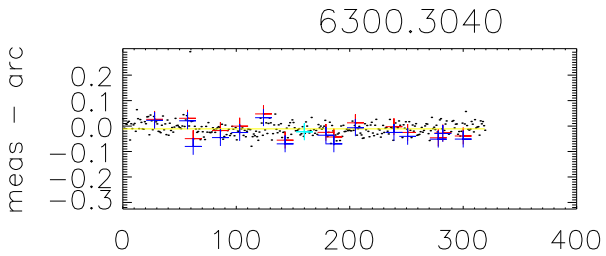

PLATE=2270 MJD=53714 Scattered Light before halo removal on sdR-r1-00035464.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 12.311
Max value = 57.740
Sat Feb 16 21:30:47 2008

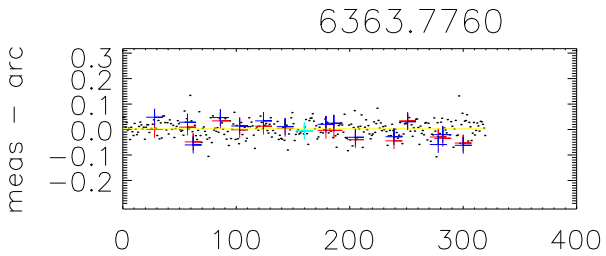

PLATE=2270 MJD=53714 Scattered Light on sdR-r1-00035464.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
18.2
25.3
18.2
18.2
18.2
18.2
18.2

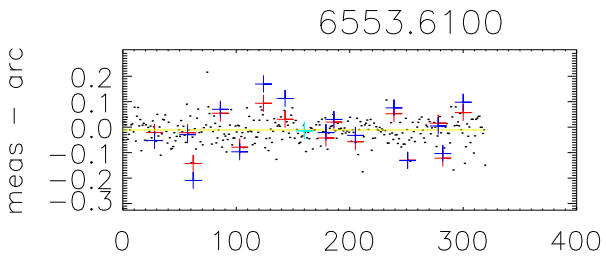

PLATE=2270 MJD=53714 Scattered Light on sdR-r1-00035464.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 12.075
Max value = 24.945
Sat Feb 16 21:34:02 2008

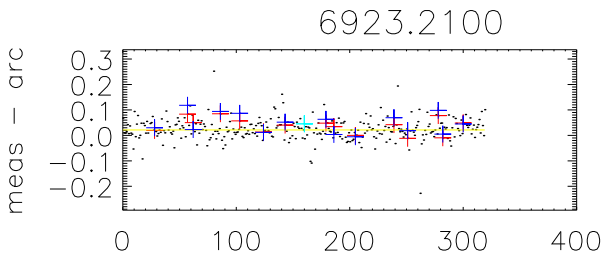

PLATE=2270 MJD=53714 Extraction chi^2 for sdR−r1−00035464.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

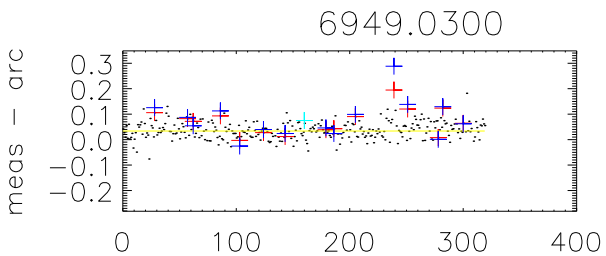

6300.3040
off: −0.02
sig: 0.006
6363.7760
off: −0.01
sig: 0.011
6553.6100
off: −0.01
sig: 0.020
6923.2100
off: 0.05
sig: 0.012
sig: 0.010
7571.7500
off: 0.07
sig: 0.012
7794.1200
off: −0.05
sig: 0.006
7821.5100
off: 0.01
sig: 0.005
8399.1600
off: 0.05
sig: 0.005
8430.1700
off: 0.02
sig: 0.004
8885.8300
off: 0.06
sig: 0.005
8919.6100
off: 0.06
sig: 0.004

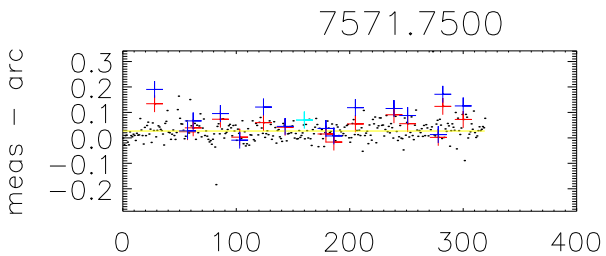

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

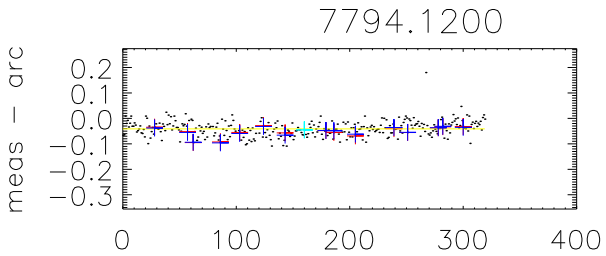

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

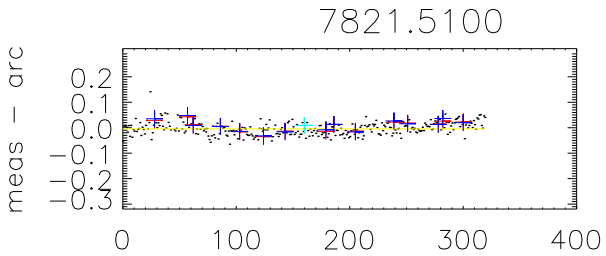

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

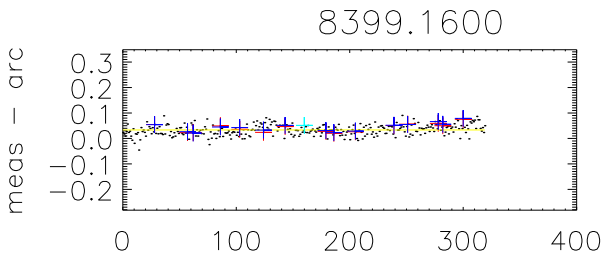

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

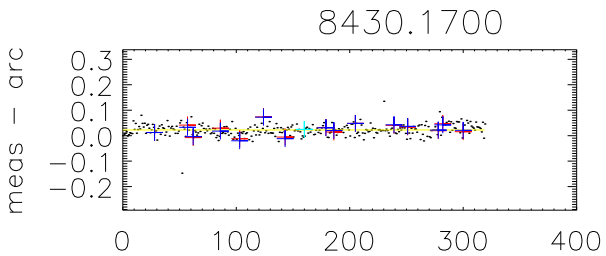

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

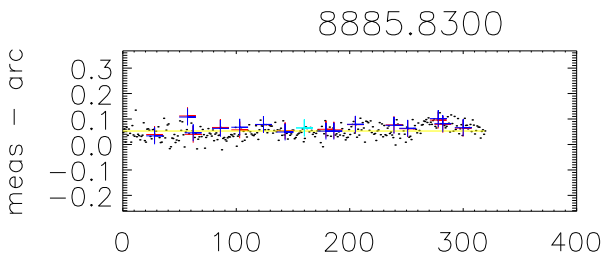

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

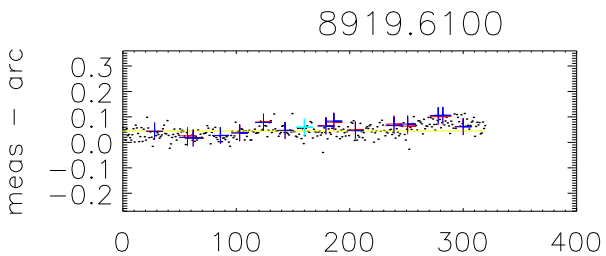

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

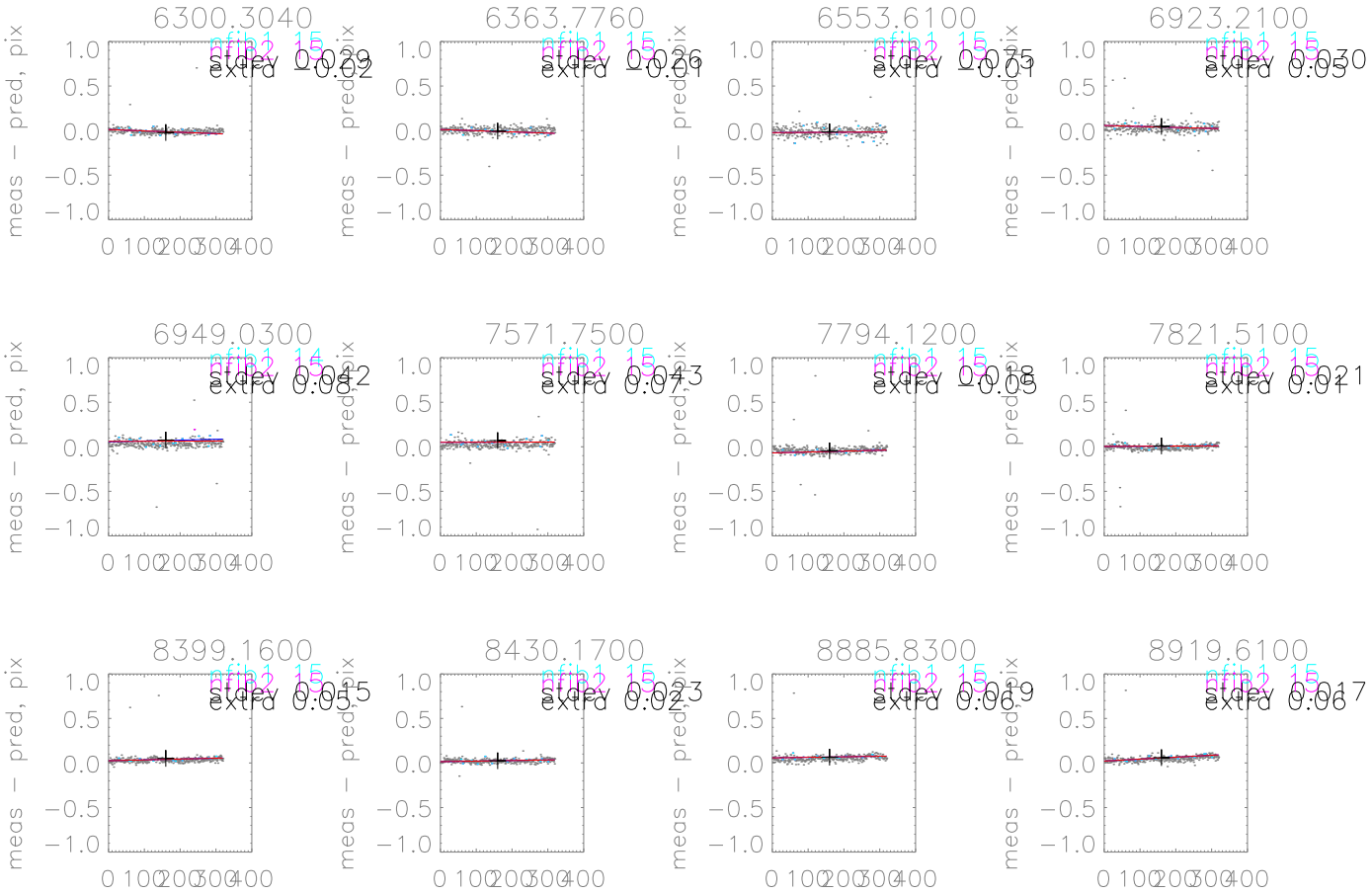

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

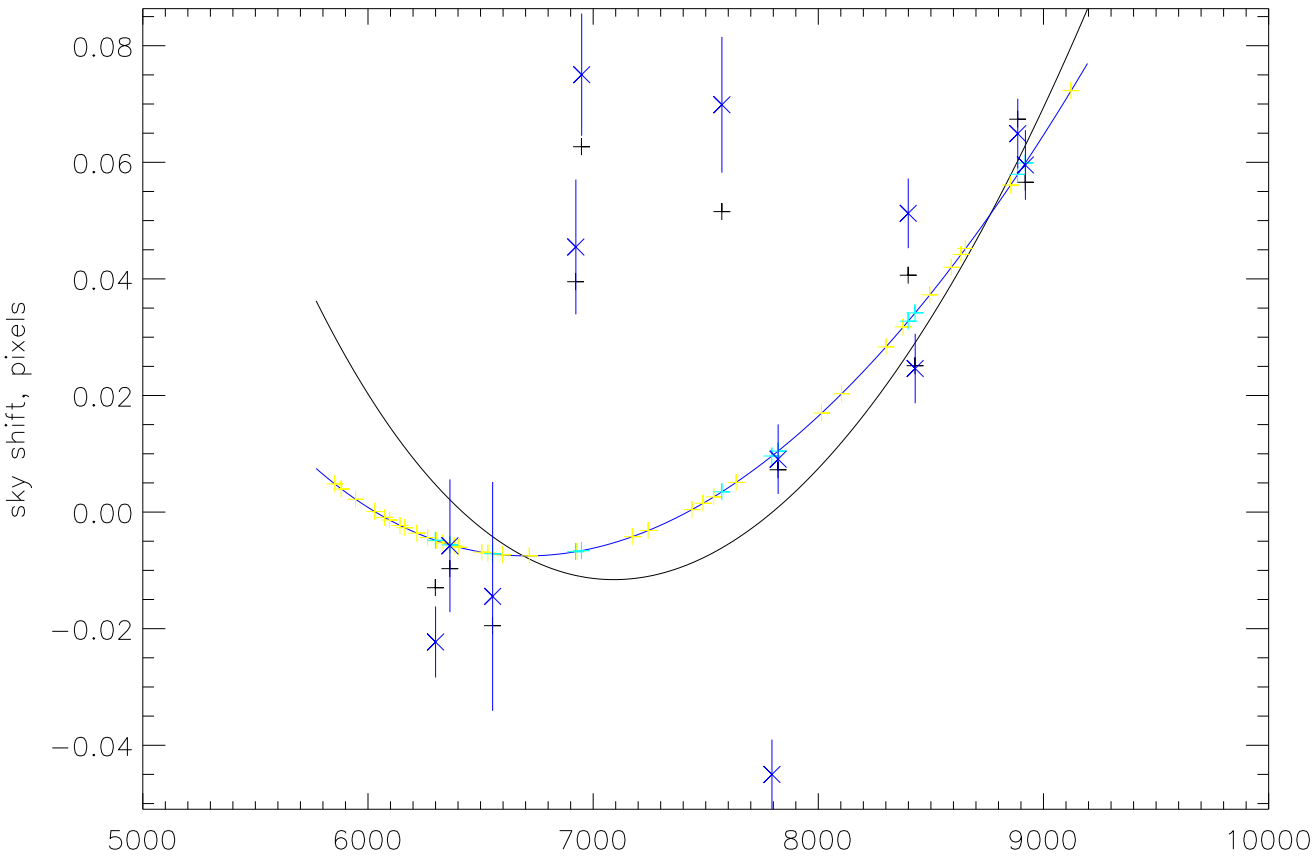

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

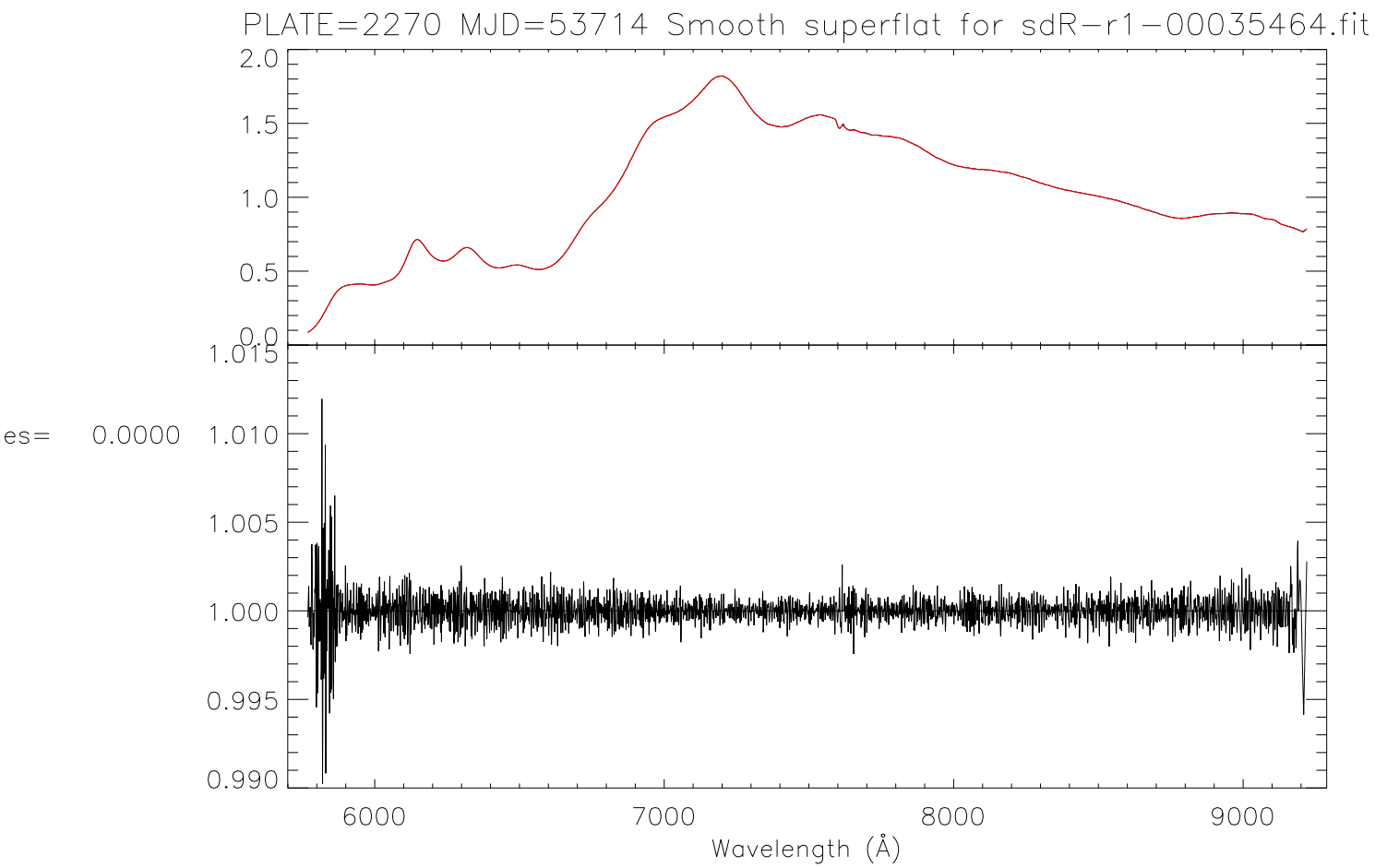

8430.1700
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

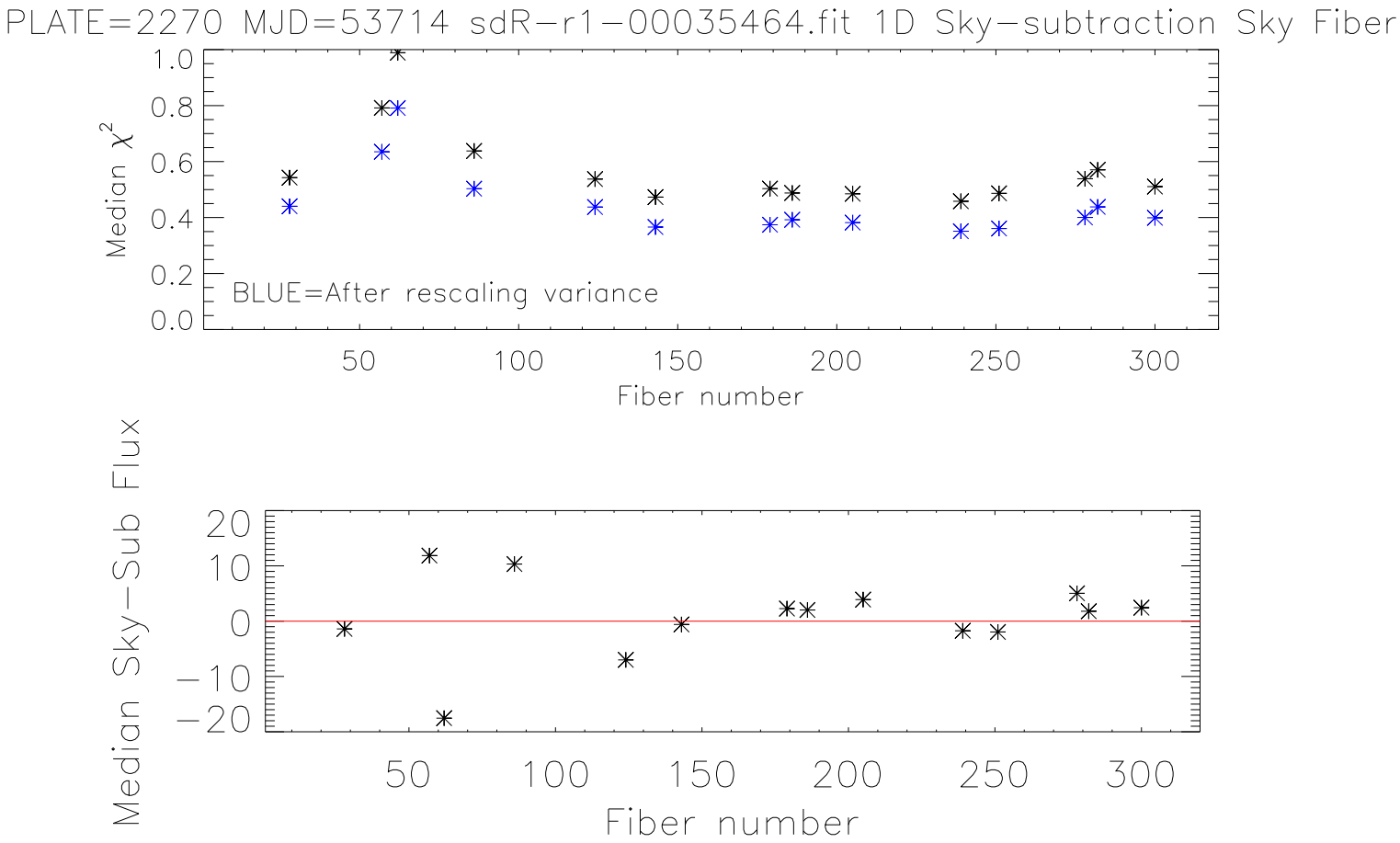

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

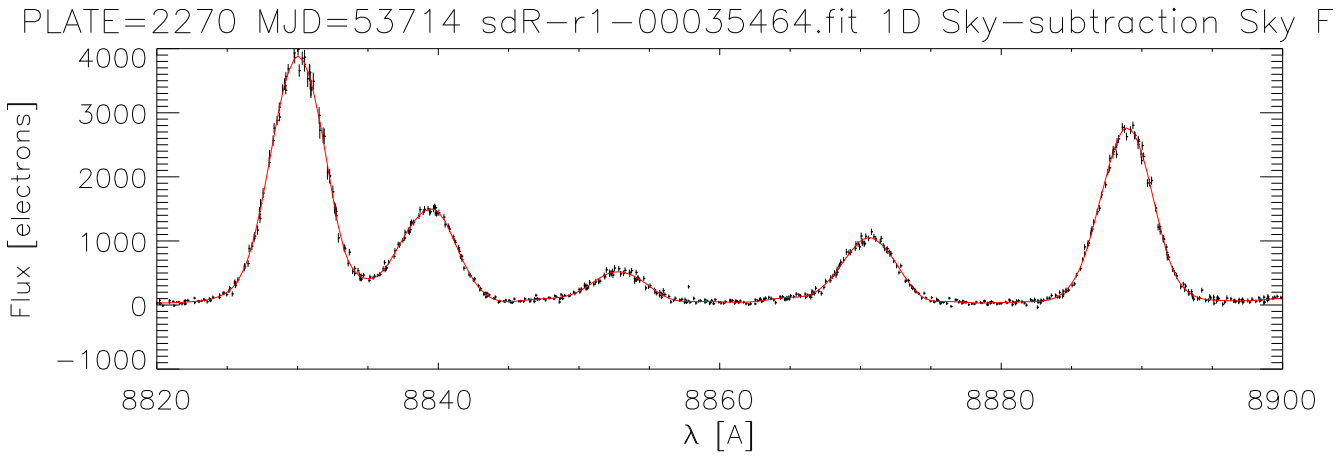

6300.3040
mfhi1 15
mflo1 15
stdev 0.029
extra −0.02
6363.7760
mfhi1 15
mflo1 15
stdev 0.026
extra −0.01
6553.6100
mfhi1 15
mflo1 15
stdev 0.025
extra −0.01
6923.2100
mfhi1 15
mflo1 15
stdev 0.030
extra 0.05
6949.0300
mfhi1 14
mflo1 15
stdev 0.042
extra 0.08
7571.7500
mfhi1 15
mflo1 15
stdev 0.043
extra 0.07
7794.1200
mfhi1 15
mflo1 15
stdev 0.018
extra −0.05
7821.5100
mfhi1 15
mflo1 15
stdev 0.021
extra 0.01
8399.1600
mfhi1 15
mflo1 15
stdev 0.045
extra 0.05
8430.1700
mfhi1 15
mflo1 15
stdev 0.023
extra 0.02
8885.8300
mfhi1 15
mflo1 15
stdev 0.049
extra 0.06
8919.6100
mfhi1 15
mflo1 15
stdev 0.047
extra 0.06
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

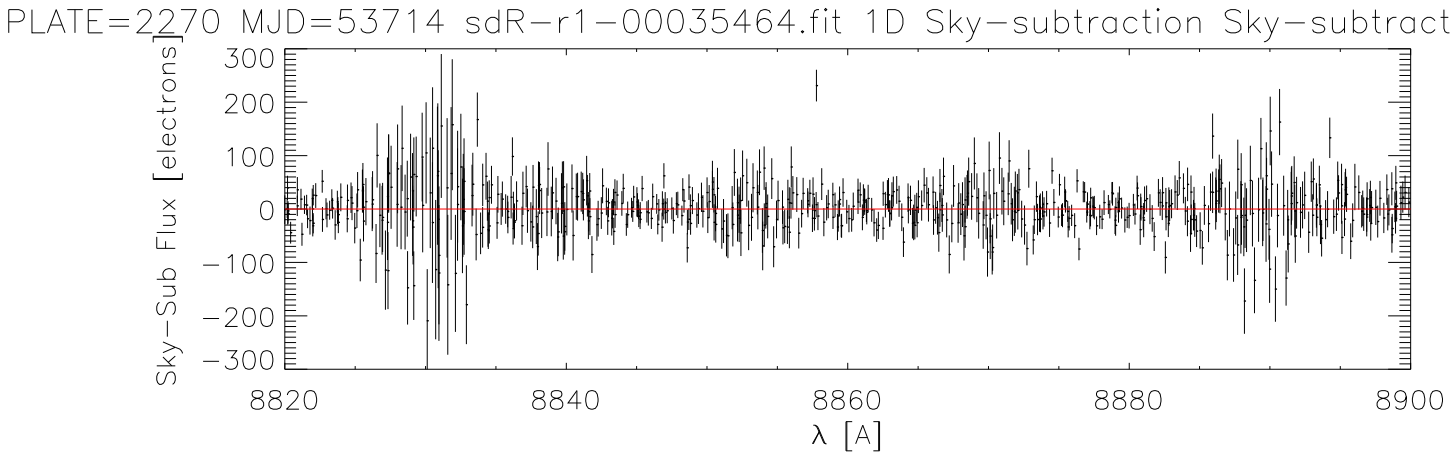

sky shift, pixels
0.08
0.06
0.04
0.02
0.00
−0.02
−0.04
5000
6000
7000
8000
9000
10000

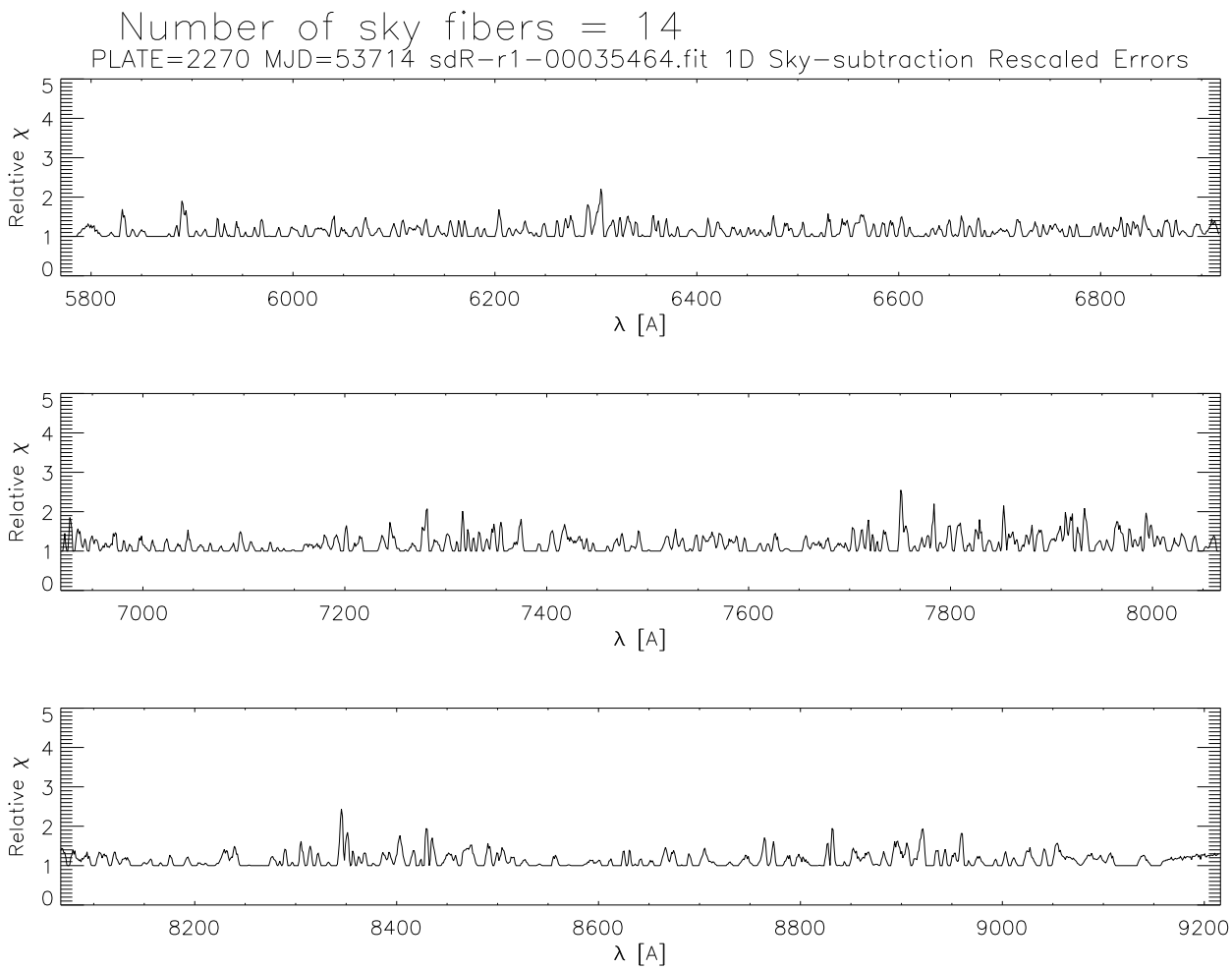

PLATE=2270 MJD=53714 Smooth superflat for sdR-r1-00035464.fit
2.0
1.5
1.0
0.5
0.0
1.015
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

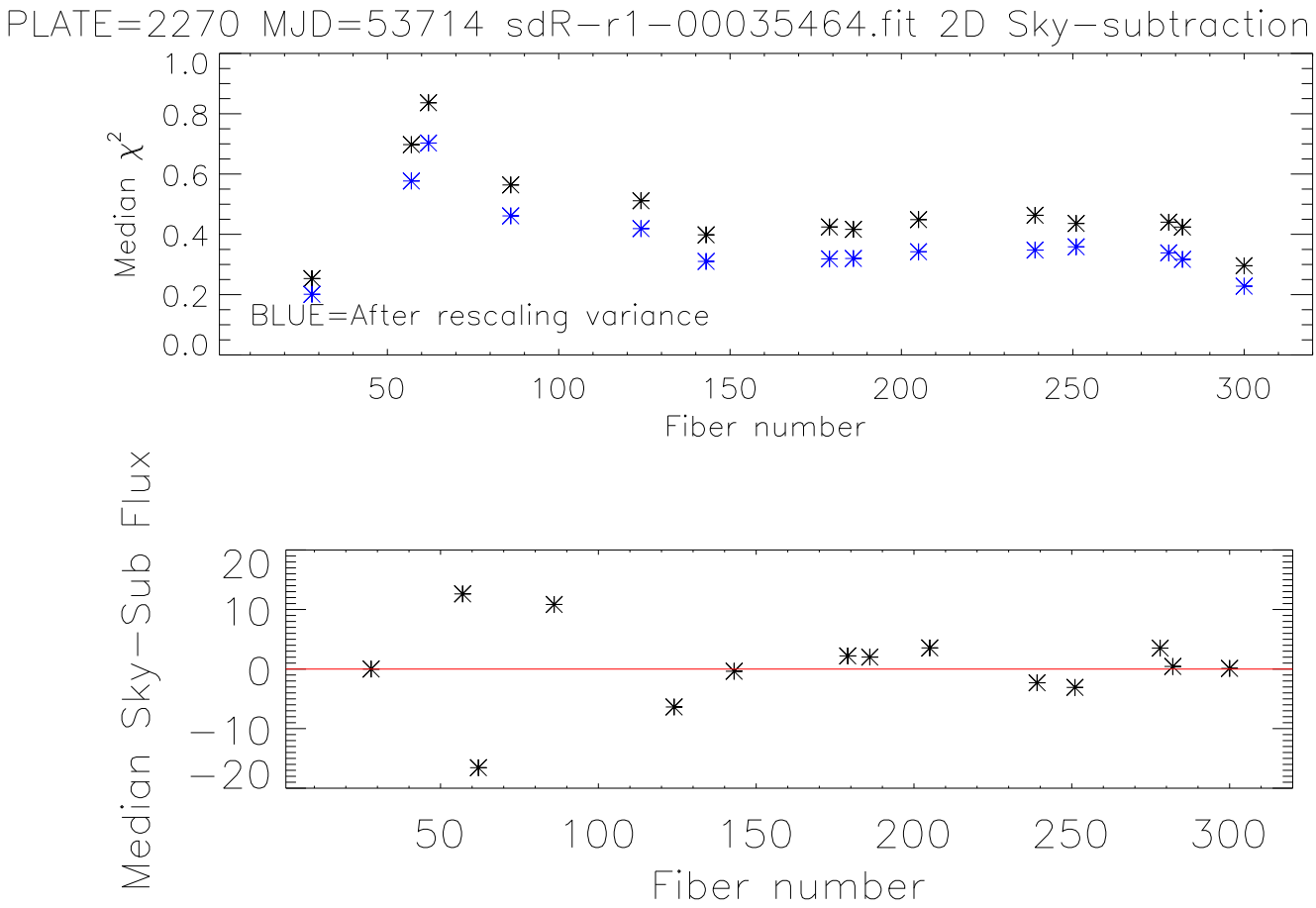
es= 0.0000

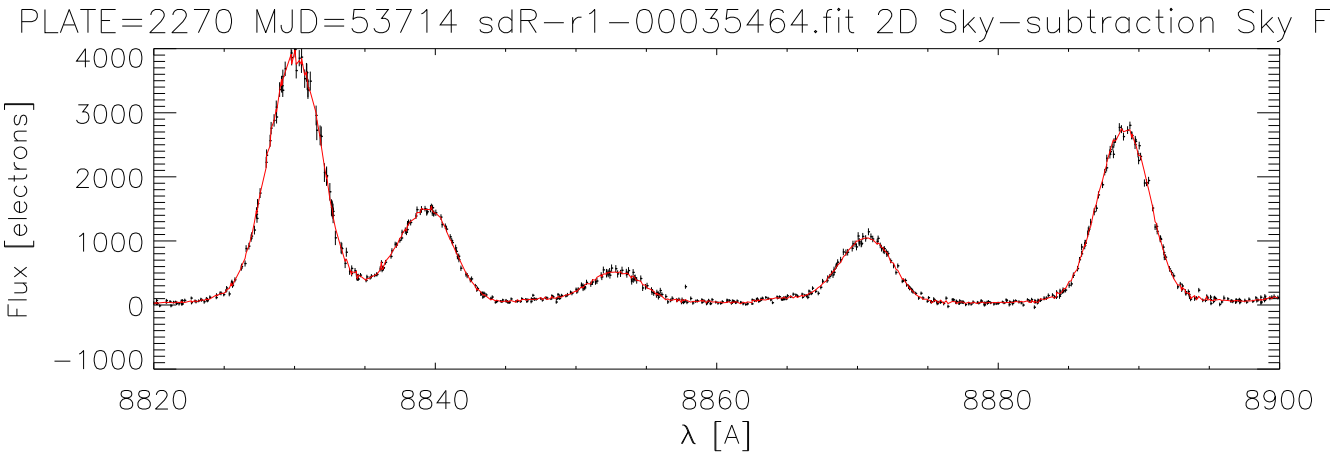

PLATE=2270 MJD=53714 sdR-r1-00035464.fit 1D Sky-subtraction Sky Fibers
Median χ^2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
10
0
-10
-20
50
100
150
200
250
300
Fiber number

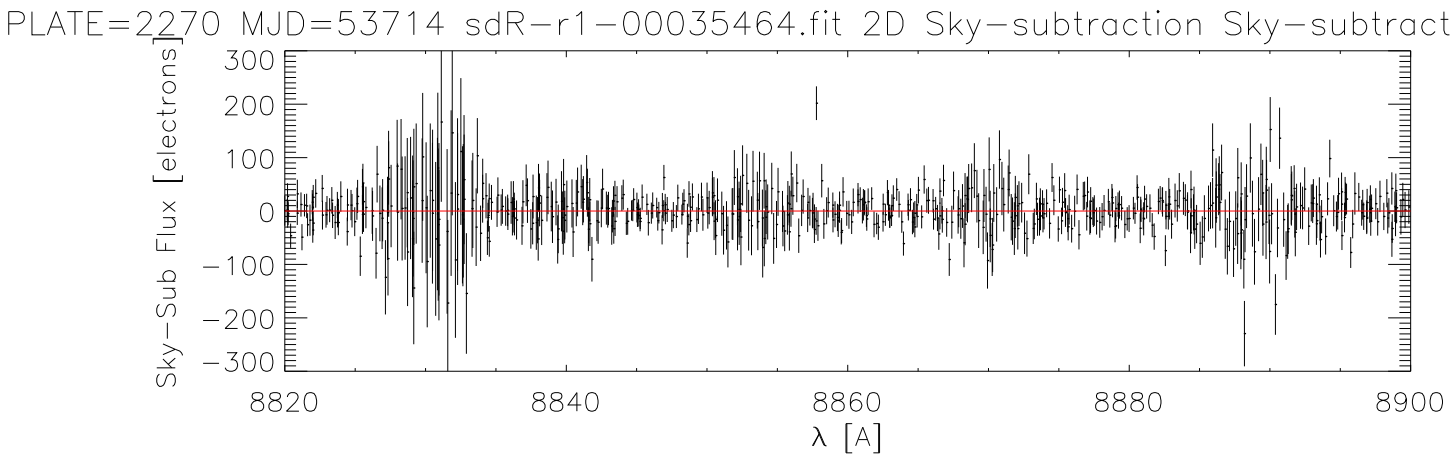

PLATE=2270 MJD=53714 sdR-r1-00035464.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

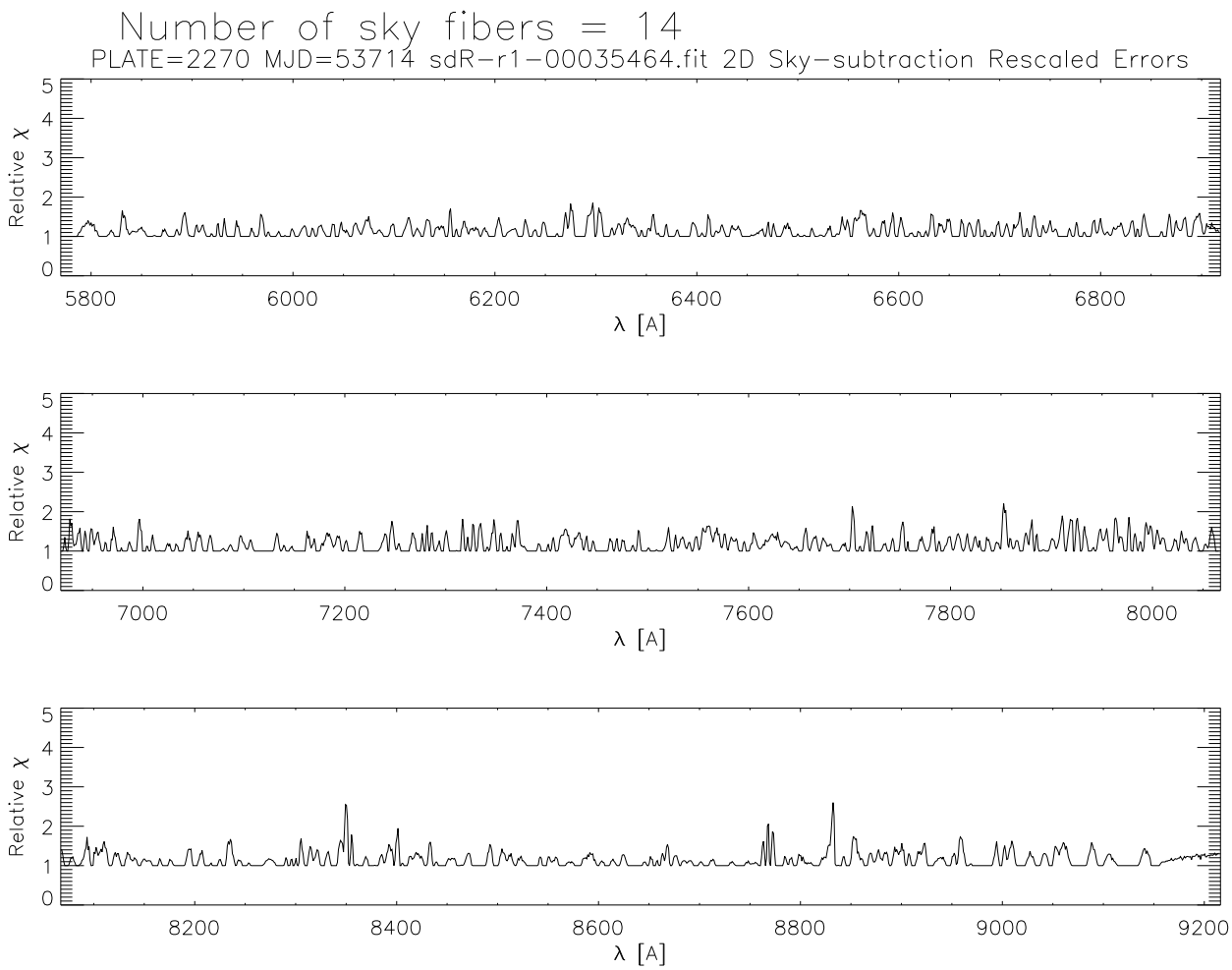

PLATE=2270 MJD=53714 sdR-r1-00035464.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

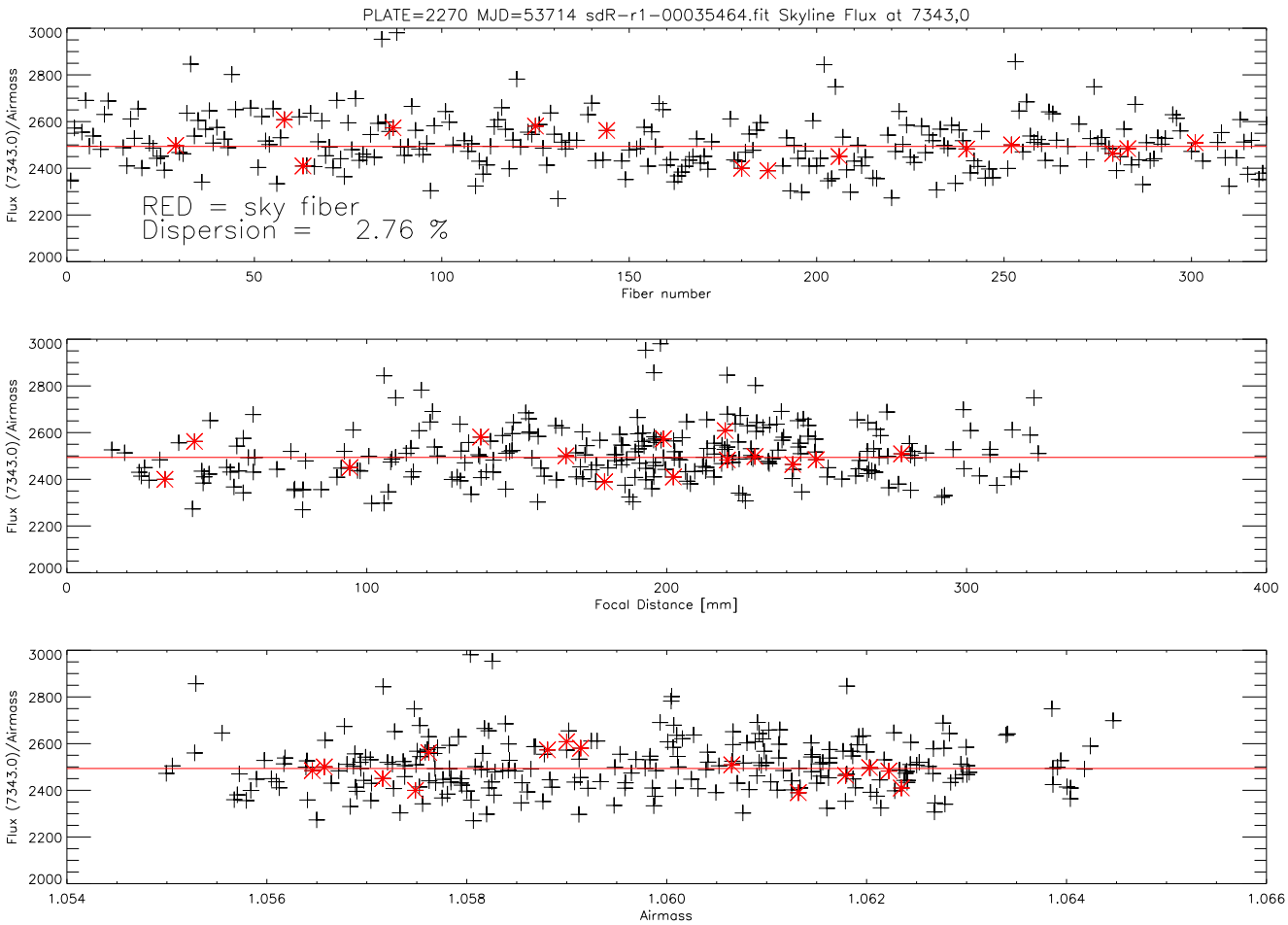

Number of sky fibers = 14
PLATE=2270 MJD=53714 sdR-r1-00035464.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

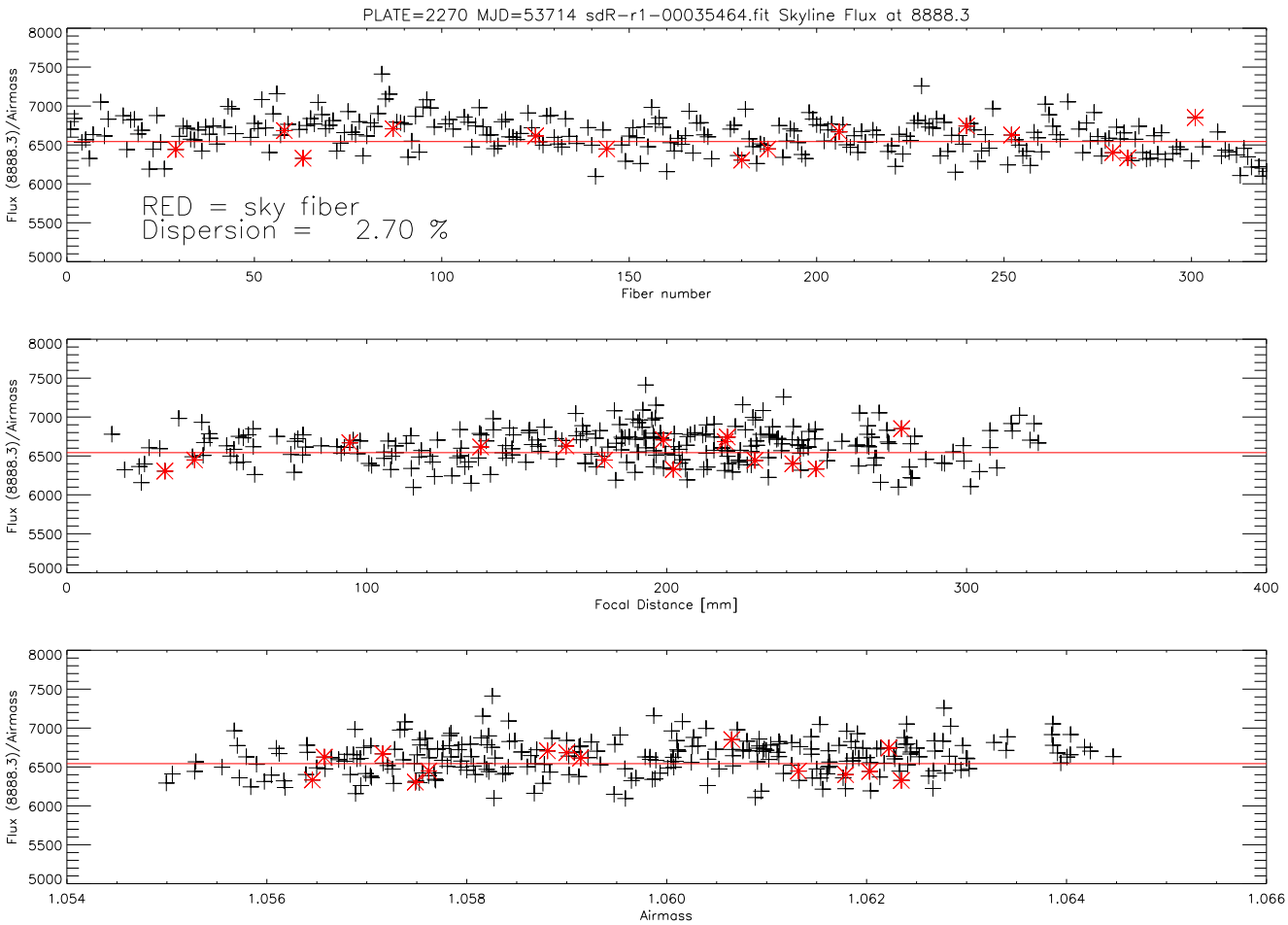

PLATE=2270 MJD=53714 sdR-r1-00035464.fit 2D Sky-subtraction Sky Fibers
Median χ^2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
10
0
-10
-20
50
100
150
200
250
300
Fiber number

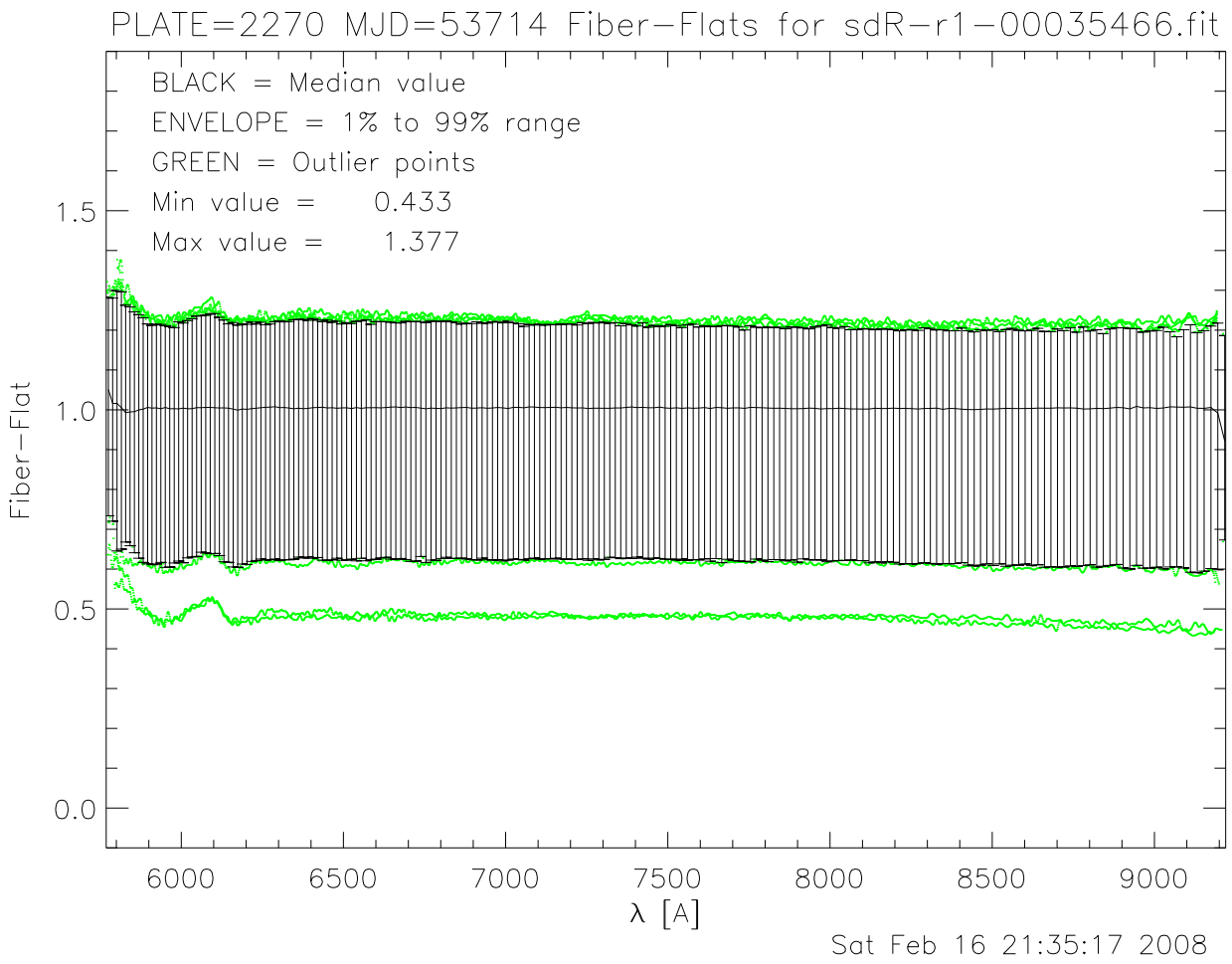

PLATE=2270 MJD=53714 sdR-r1-00035464.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

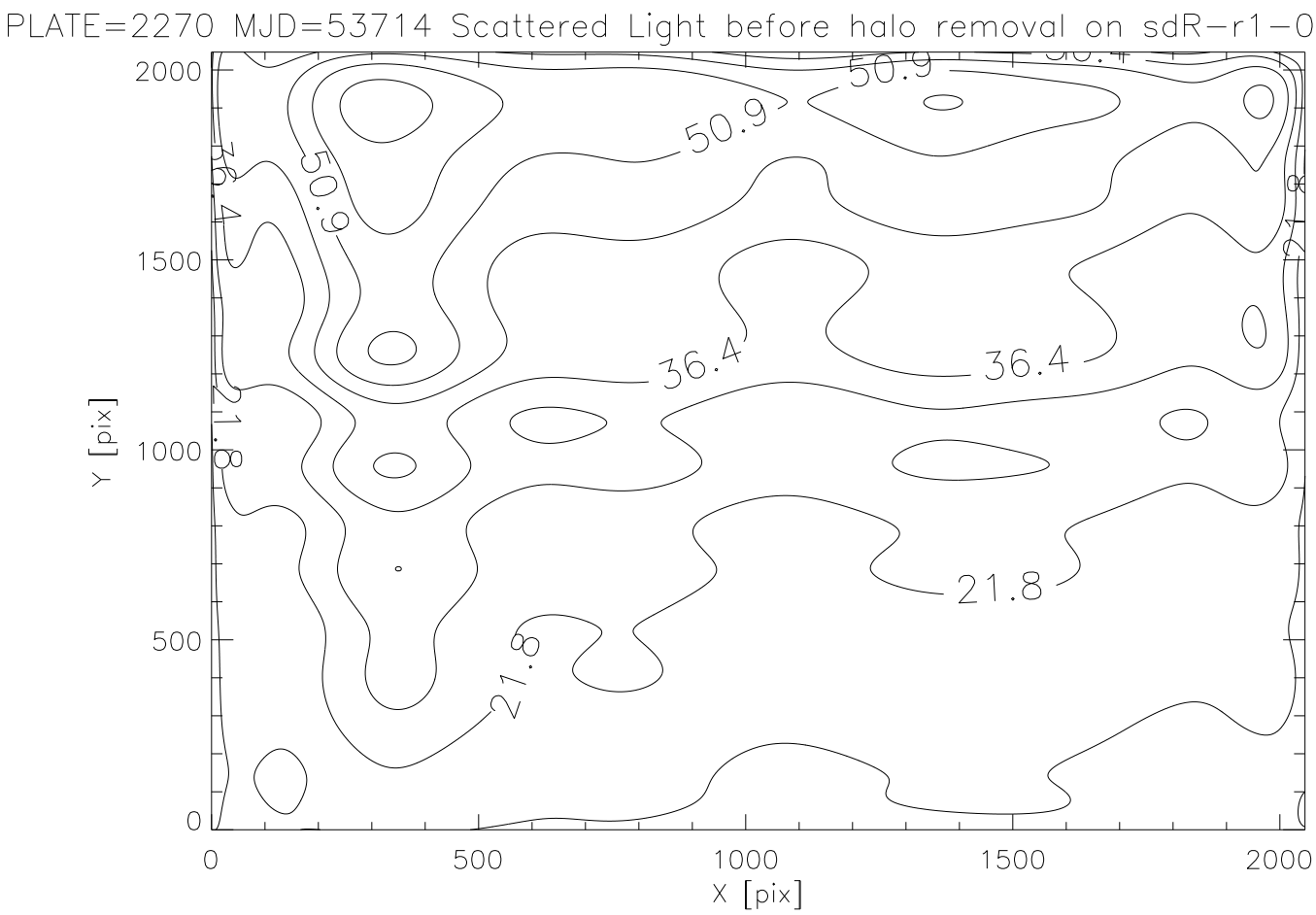

PLATE=2270 MJD=53714 sdR-r1-00035464.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

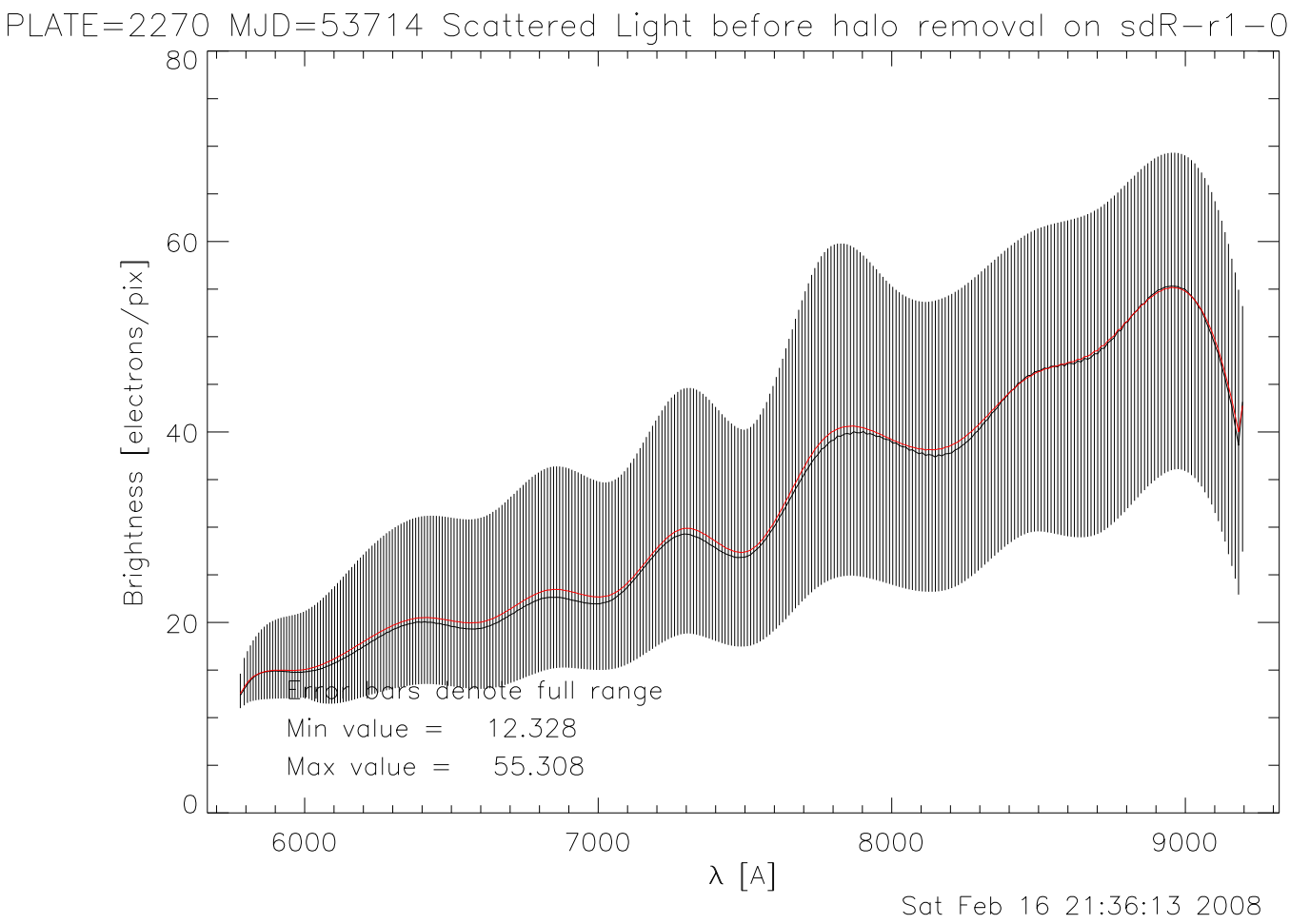

Number of sky fibers = 14
PLATE=2270 MJD=53714 sdR-r1-00035464.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

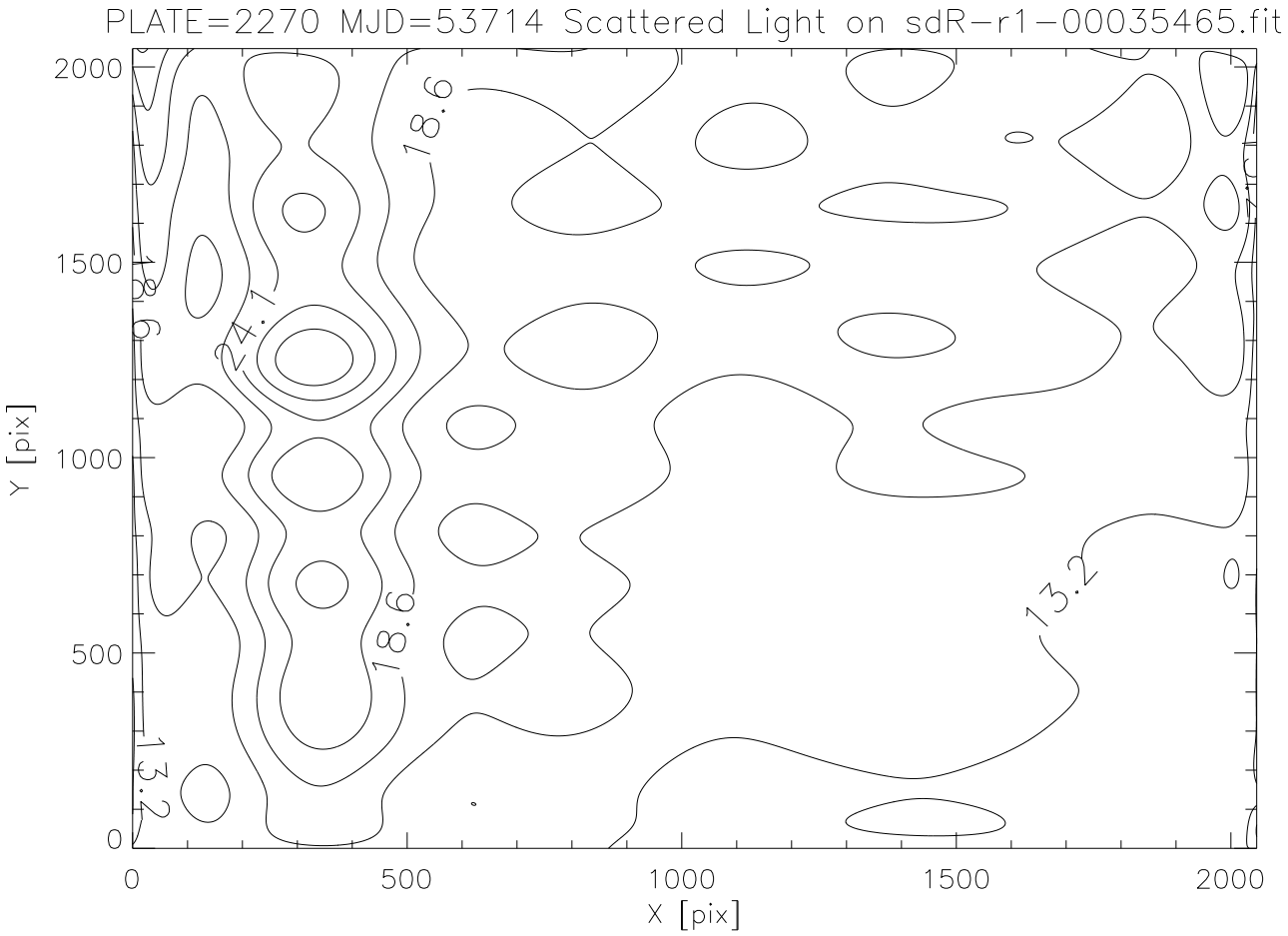

PLATE=2270 MJD=53714 sdR-r1-00035464.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.76 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

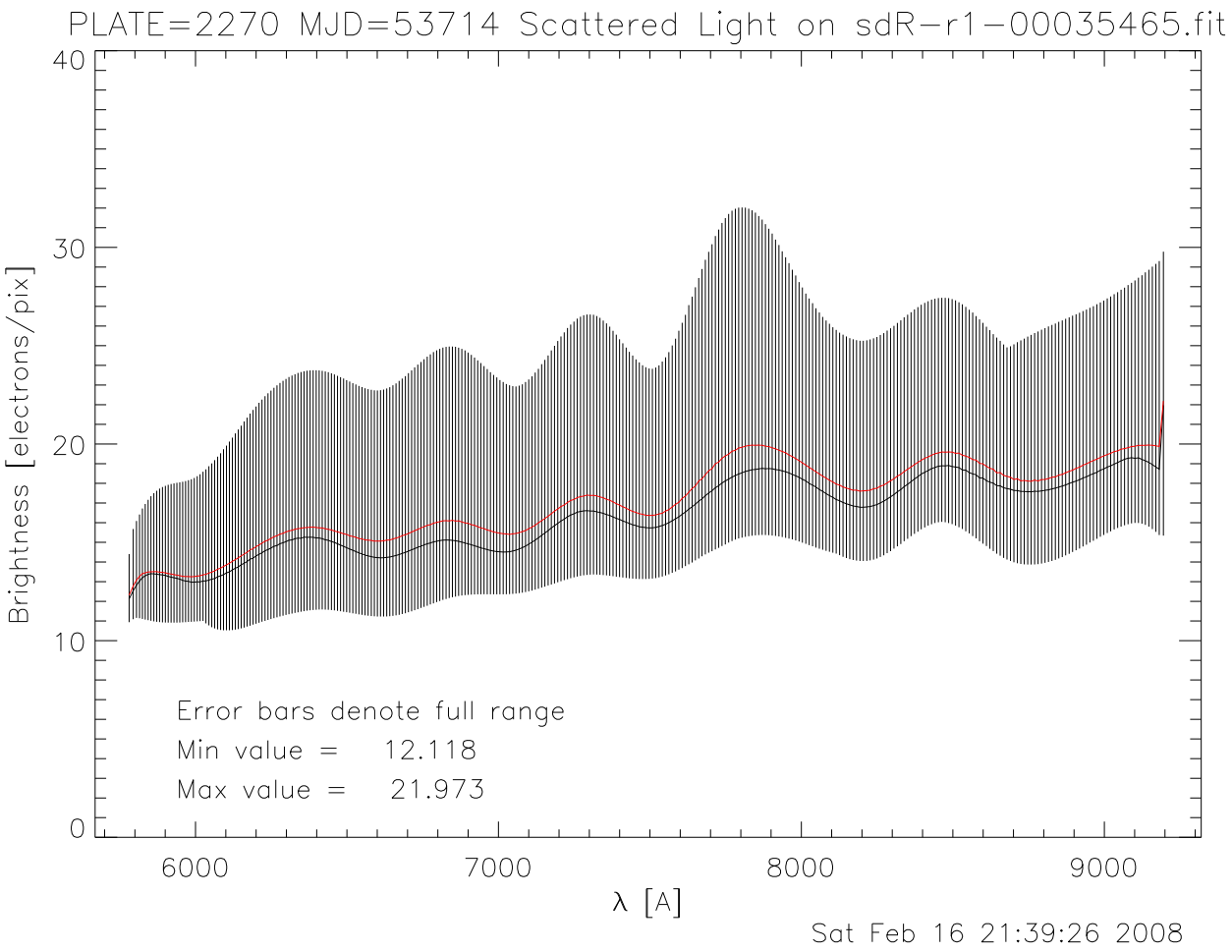

PLATE=2270 MJD=53714 sdR-r1-00035464.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.70 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

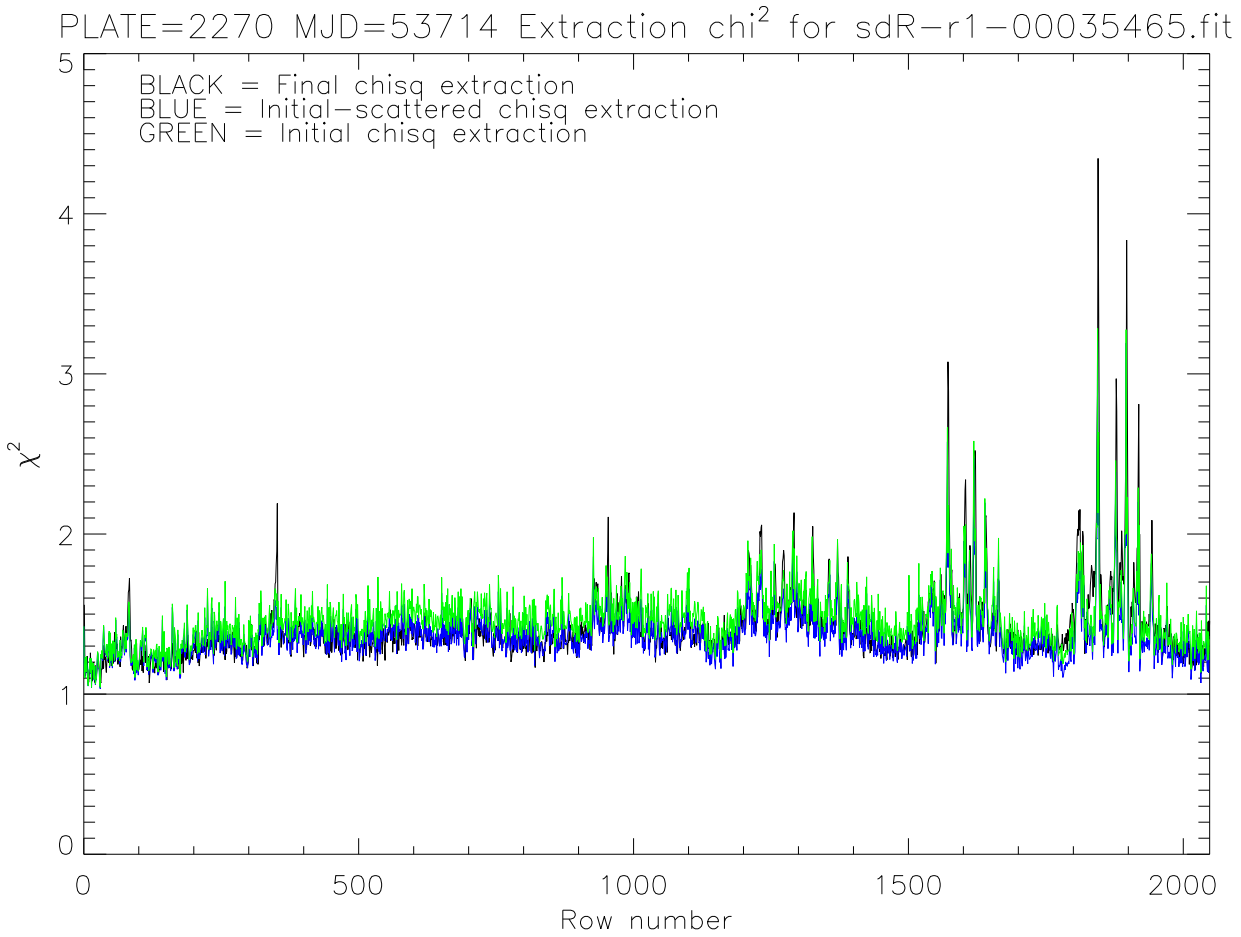

PLATE=2270 MJD=53714 Fiber−Flats for sdR−r1−00035466.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.433
Max value = 1.377
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sat Feb 16 21:35:17 2008

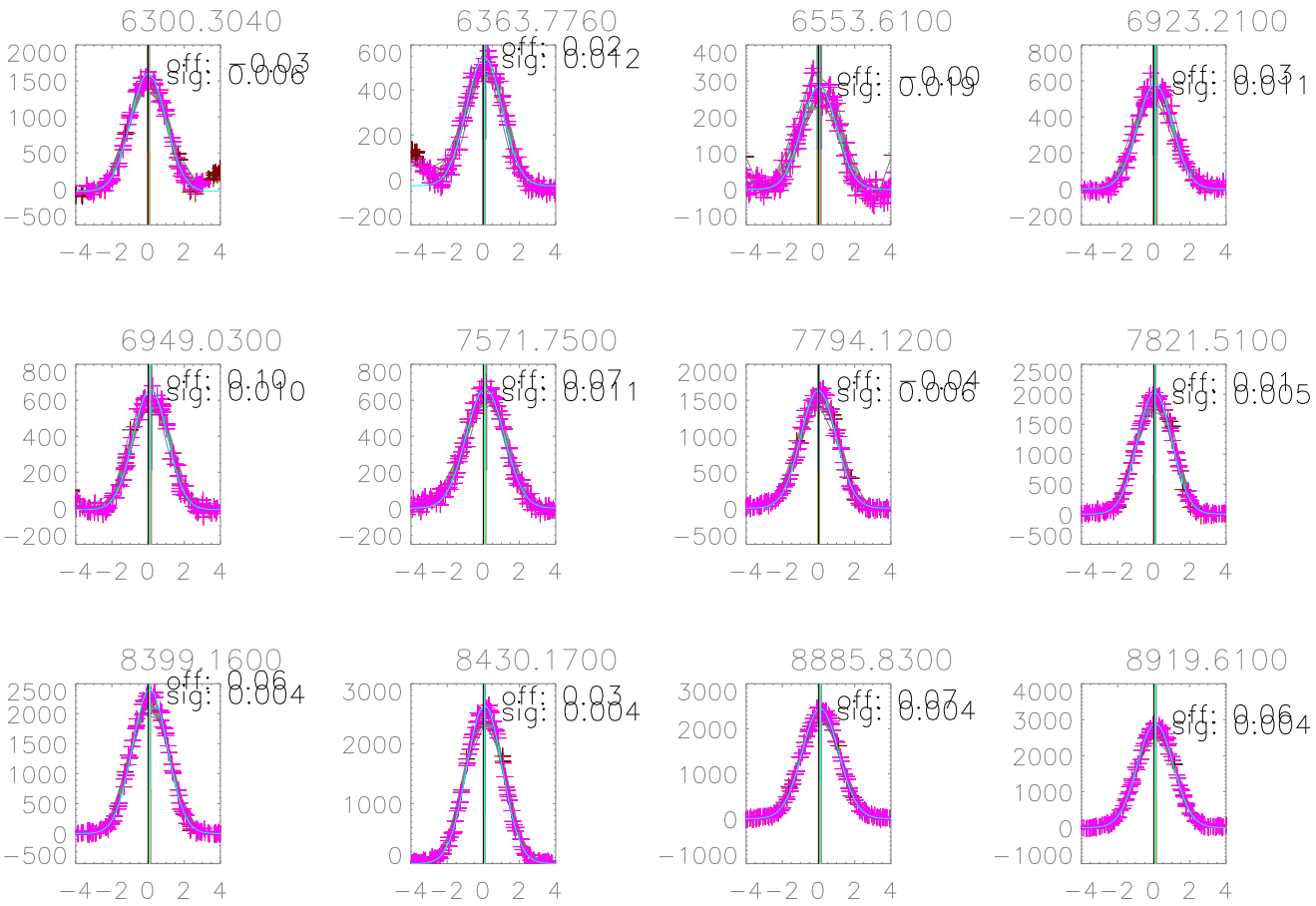

PLATE=2270 MJD=53714 Scattered Light before halo removal on sdR-r1-00035465.fi
50.9
50.9
50.9
36.4
36.4
36.4
21.8
21.8
21.8
Y [pix]
X [pix]
0
500
1000
1500
2000

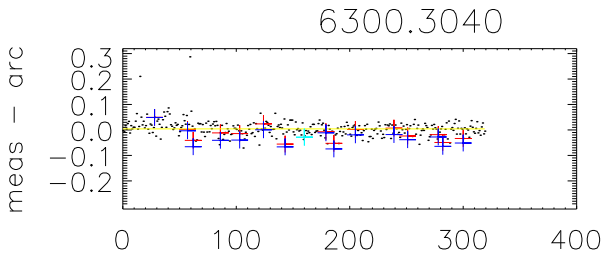

PLATE=2270 MJD=53714 Scattered Light before halo removal on sdR-r1-00035465.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 12.328
Max value = 55.308
Sat Feb 16 21:36:13 2008

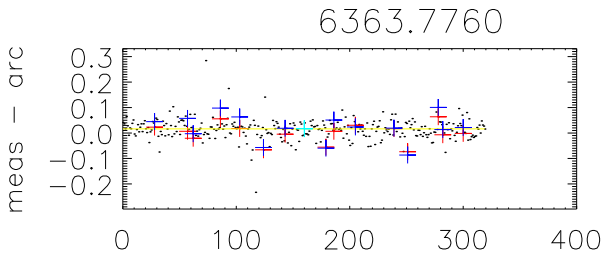

PLATE=2270 MJD=53714 Scattered Light on sdR-r1-00035465.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
18.6
24.1
13.2
0

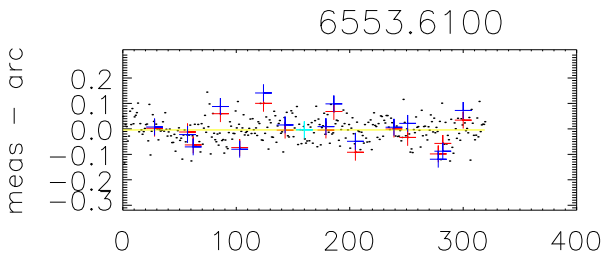

PLATE=2270 MJD=53714 Scattered Light on sdR-r1-00035465.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 12.118
Max value = 21.973
Sat Feb 16 21:39:26 2008

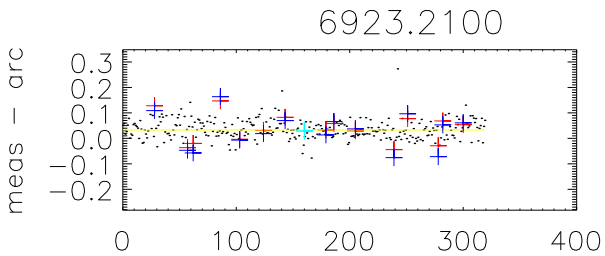

PLATE=2270 MJD=53714 Extraction chi^2 for sdR−r1−00035465.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

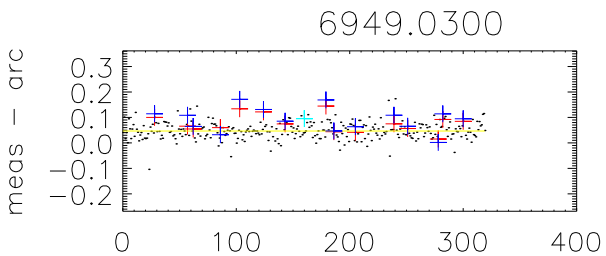

6300.3040
off: −0.03
sig: 0.006
6363.7760
off: 0.02
sig: 0.012
6553.6100
off: −0.00
sig: 0.019
6923.2100
off: 0.03
sig: 0.011
6949.0300
off: 0.10
sig: 0.010
7571.7500
off: 0.07
sig: 0.011
7794.1200
off: −0.04
sig: 0.006
7821.5100
off: 0.01
sig: 0.005
8399.1600
off: 0.06
sig: 0.004
8430.1700
off: 0.03
sig: 0.004
8885.8300
off: 0.07
sig: 0.004
8919.6100
off: 0.06
sig: 0.004

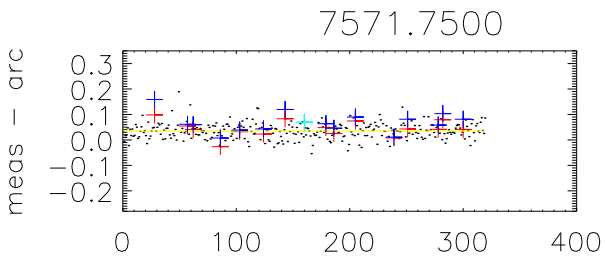

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

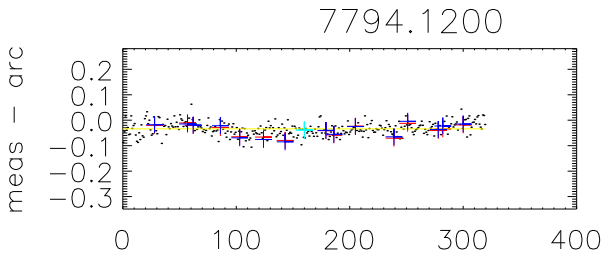

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

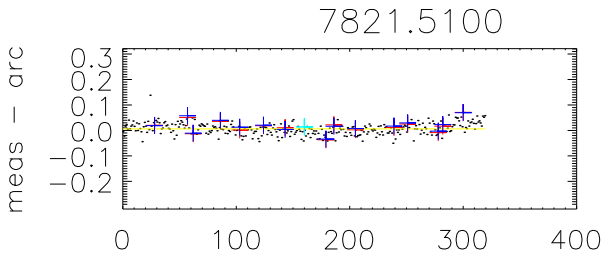

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

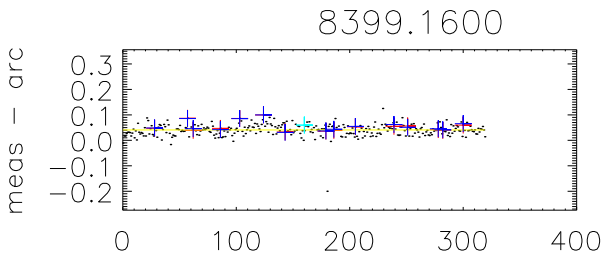

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

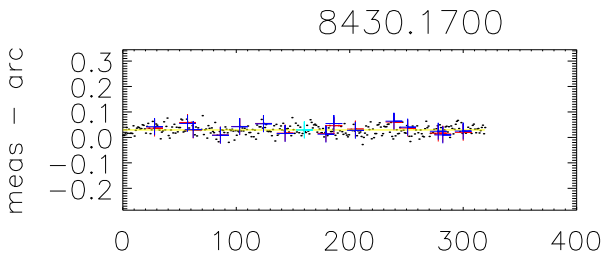

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

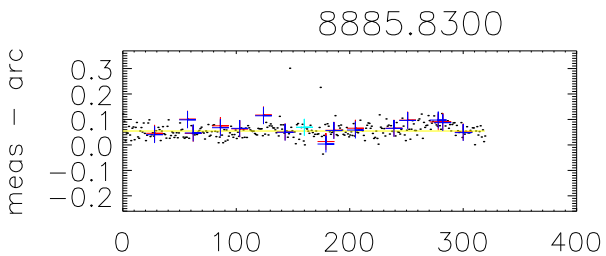

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

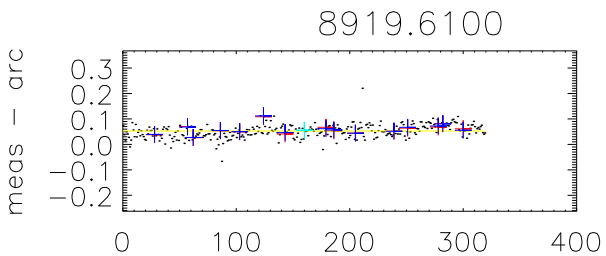

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

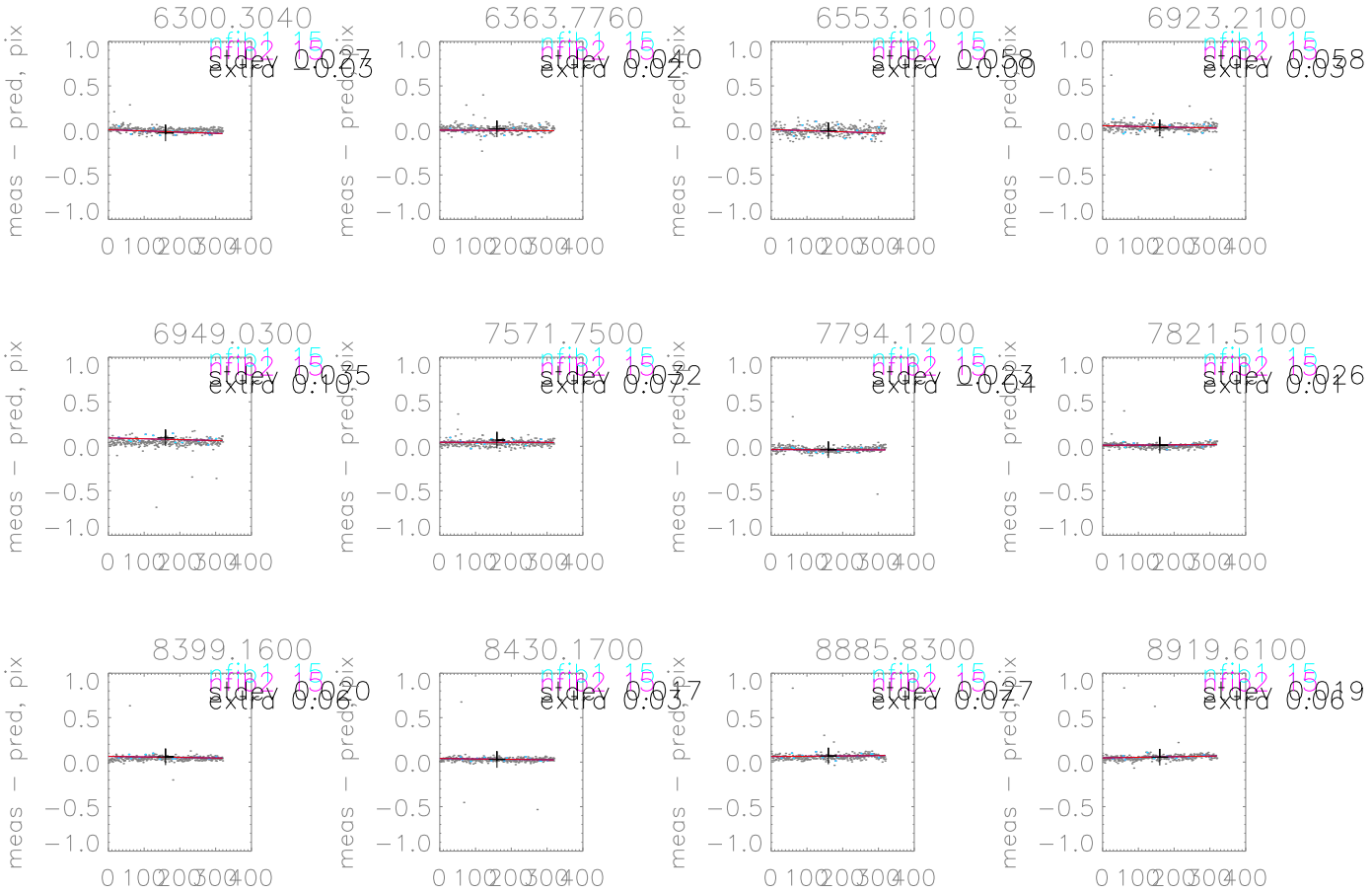

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

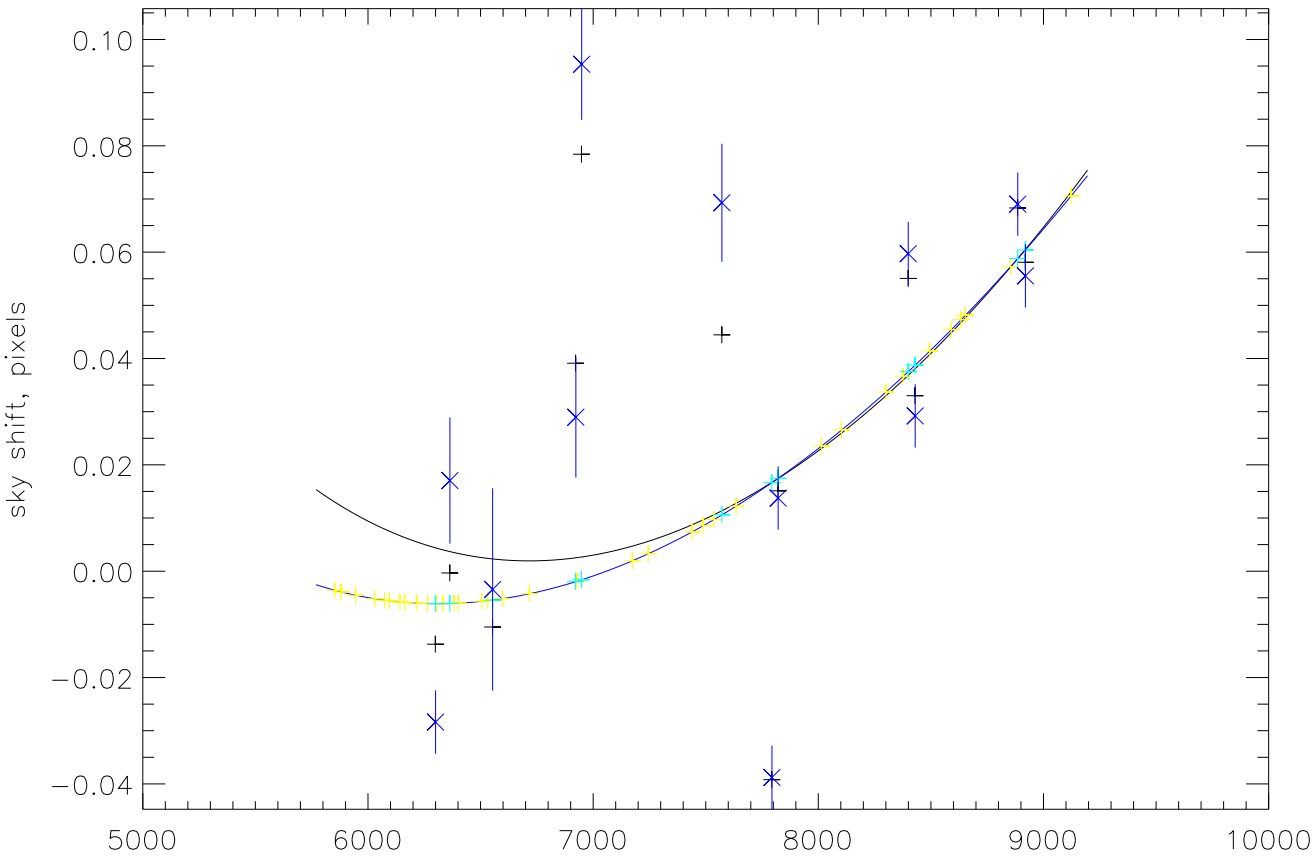

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

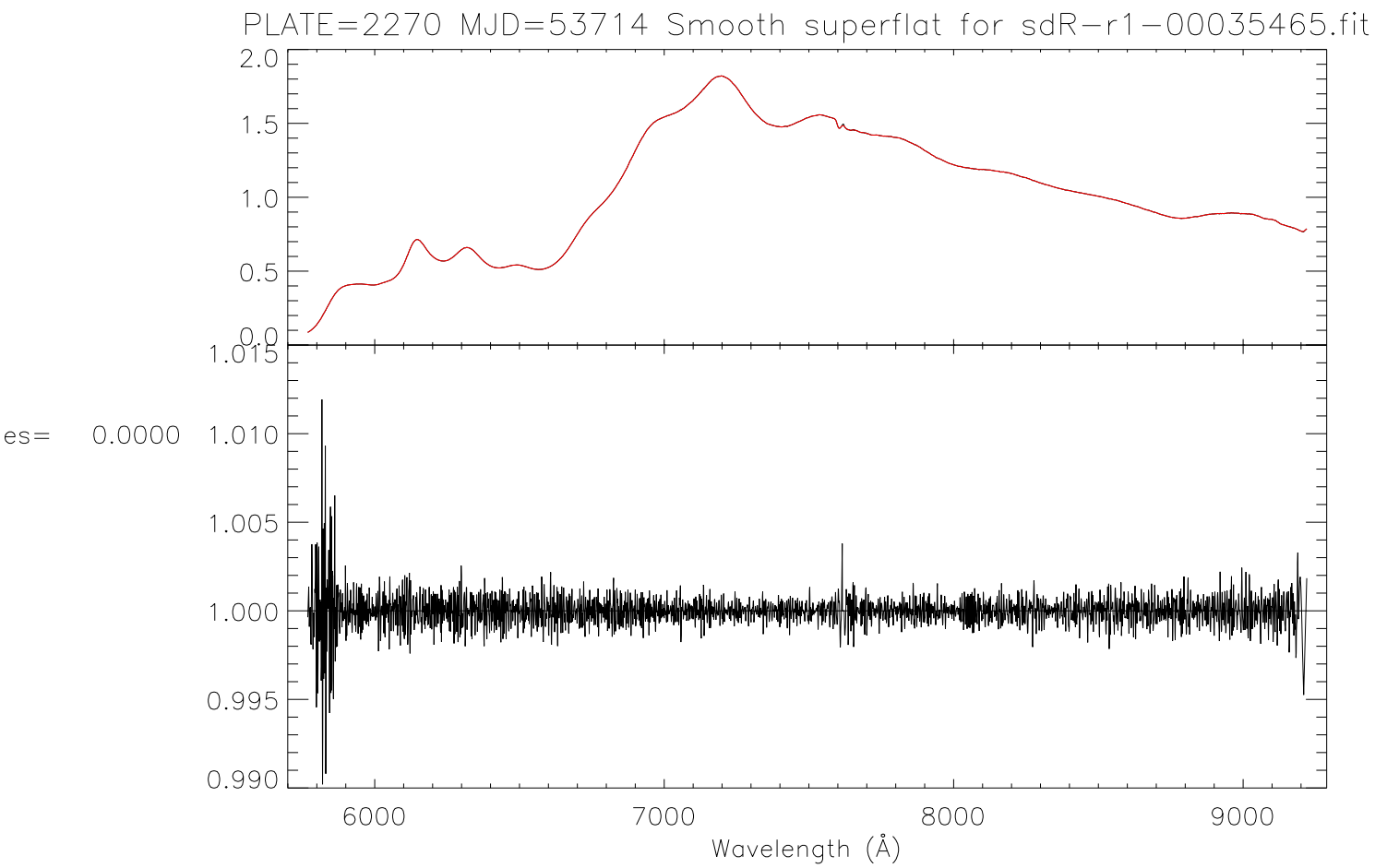

8430.1700
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

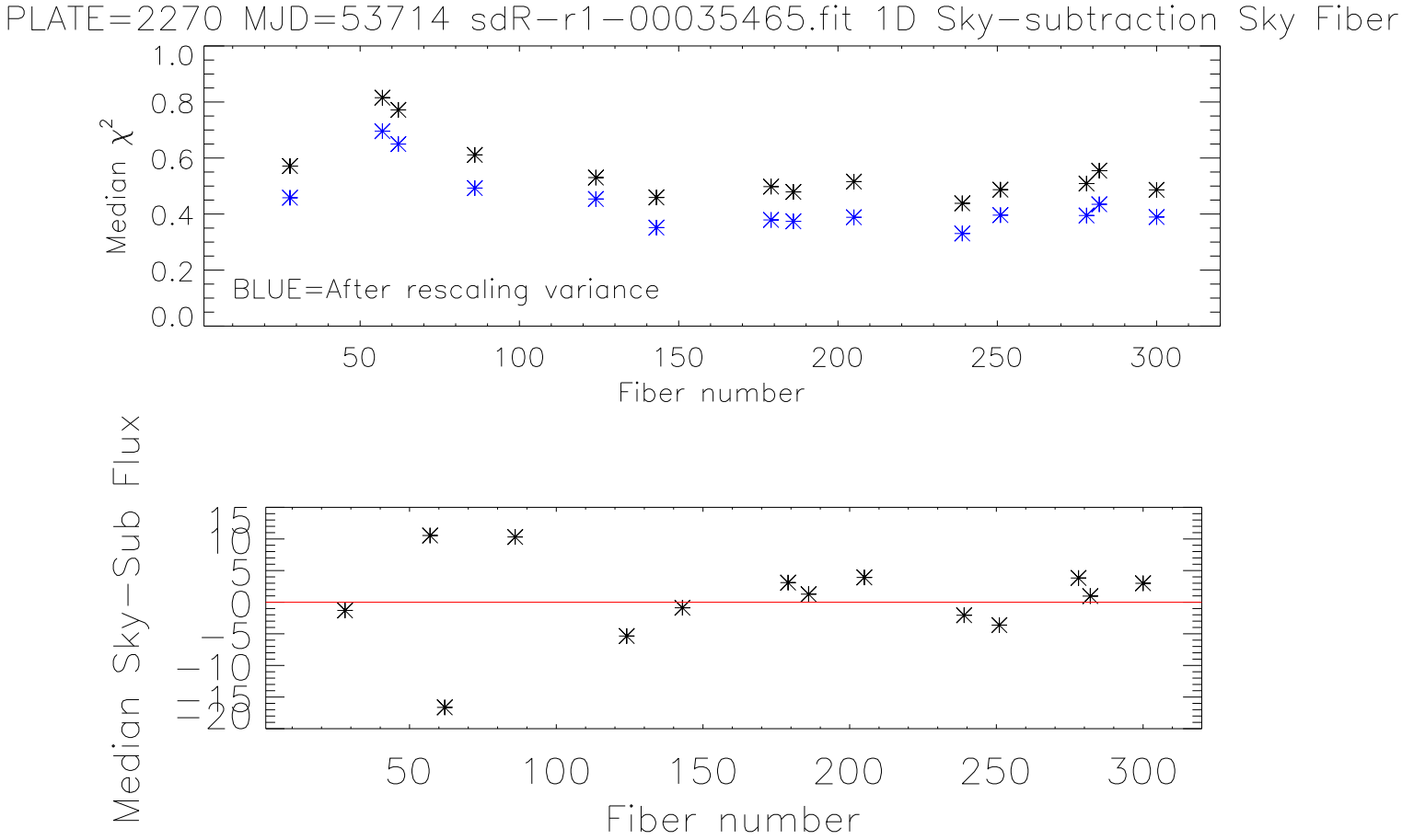

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

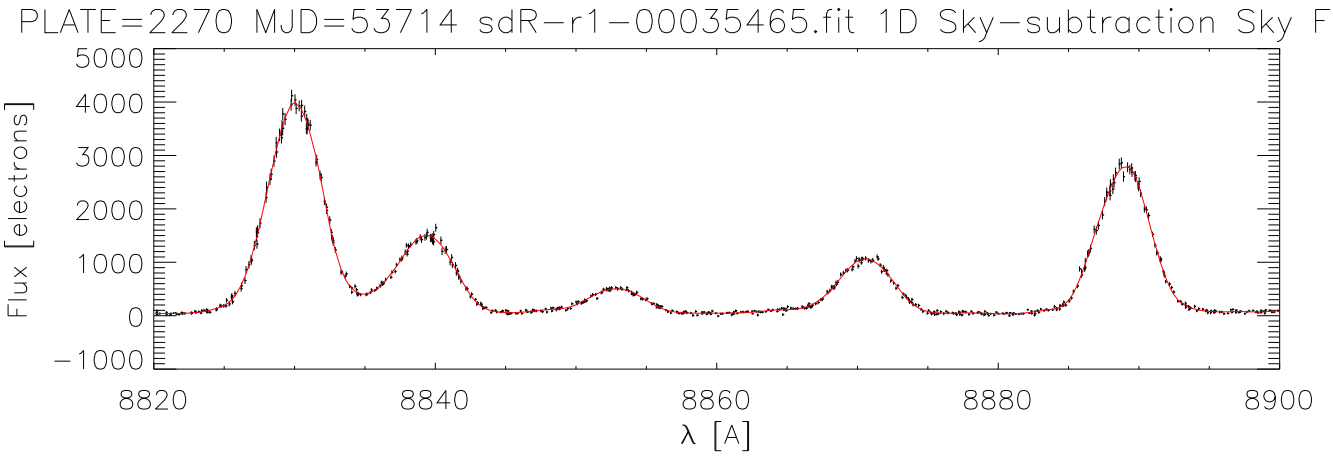

6300.3040
stdev 0.027
extra −0.03
6363.7760
stdev 0.040
extra 0.02
6553.6100
stdev 0.058
extra −0.00
6923.2100
stdev 0.058
extra 0.03
6949.0300
stdev 0.035
extra 0.10
7571.7500
stdev 0.032
extra 0.07
7794.1200
stdev 0.023
extra −0.04
7821.5100
stdev 0.026
extra 0.01
8399.1600
stdev 0.020
extra 0.06
8430.1700
stdev 0.017
extra 0.03
8885.8300
stdev 0.027
extra 0.07
8919.6100
stdev 0.019
extra 0.06
meas − pred, pix
mfb2 15

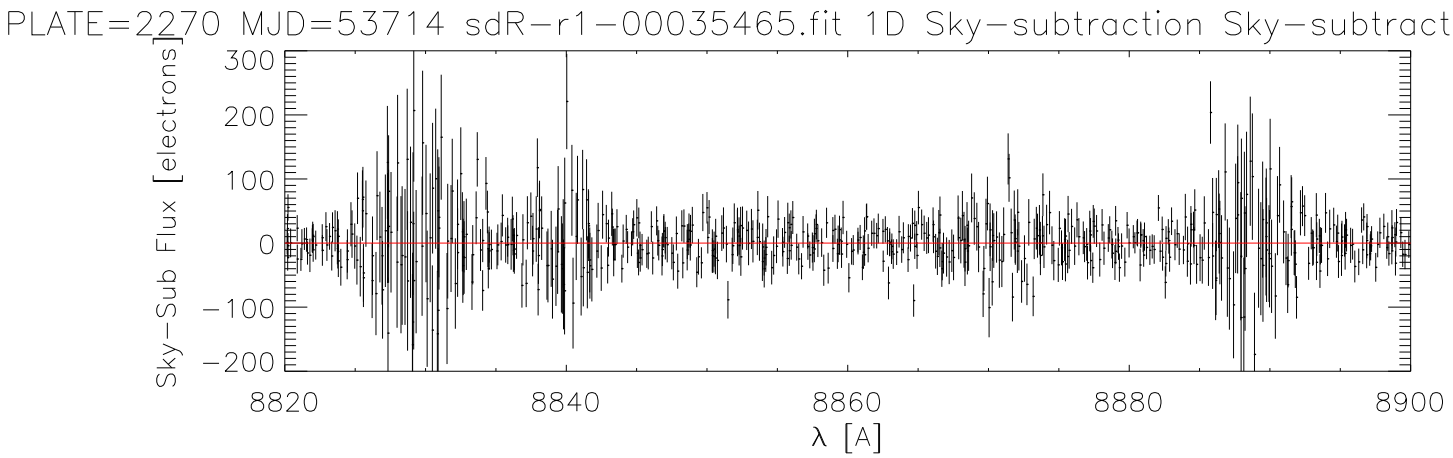

0.10
0.08
0.06
0.04
0.02
0.00
−0.02
−0.04
sky shift, pixels
5000
6000
7000
8000
9000
10000

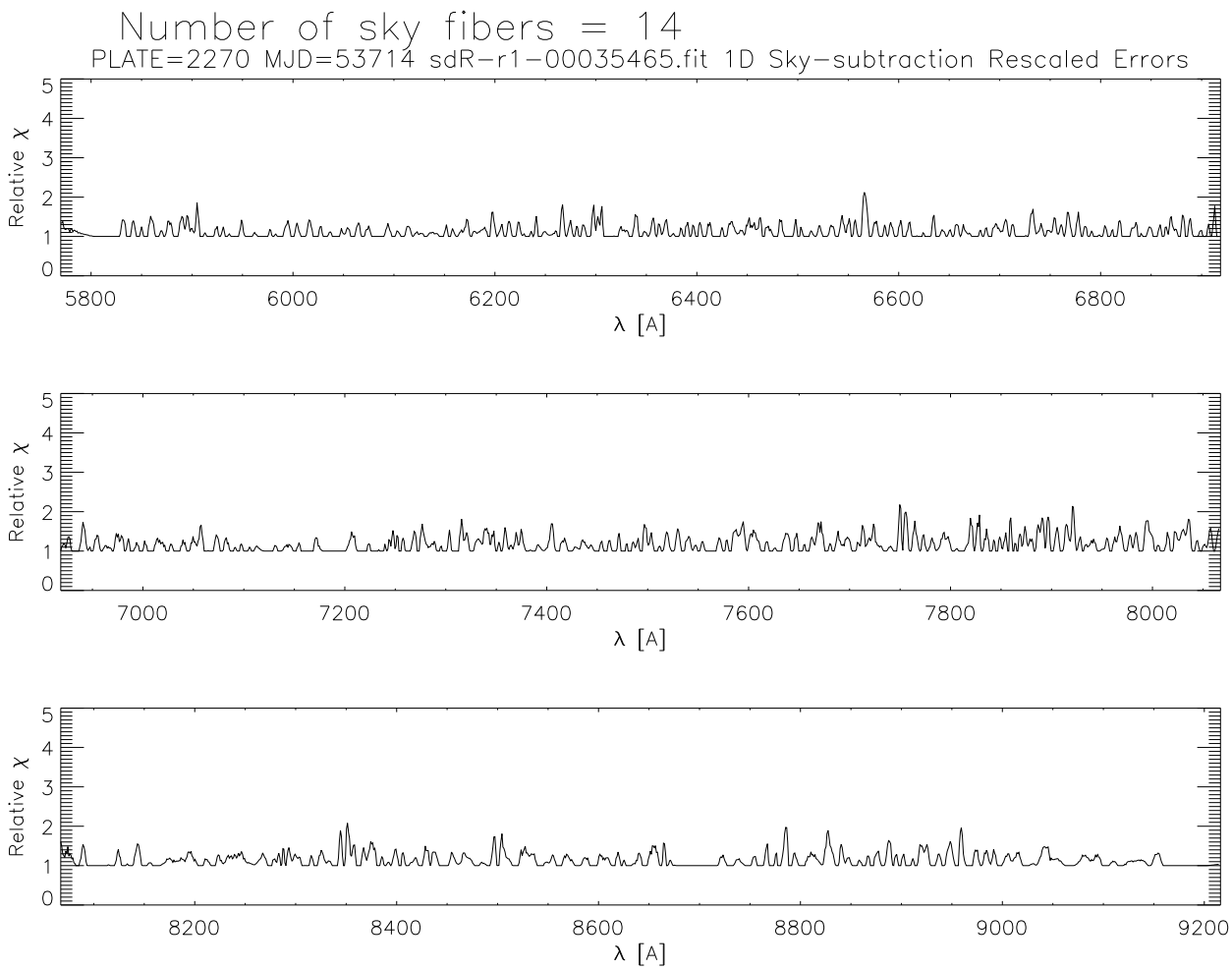

PLATE=2270 MJD=53714 Smooth superflat for sdR-r1-00035465.fit
2.0
1.5
1.0
0.5
0.0
1.015
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

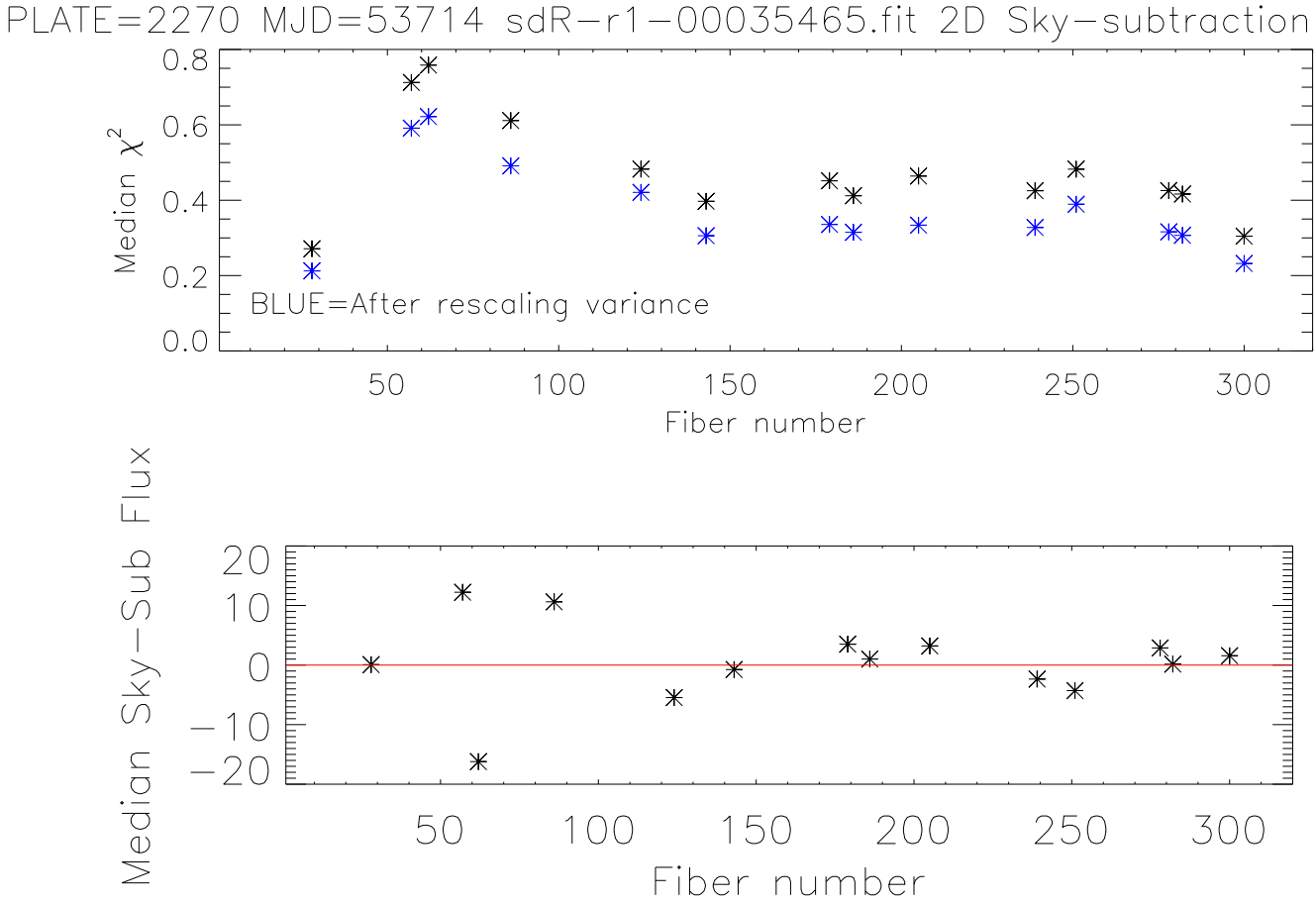
es= 0.0000

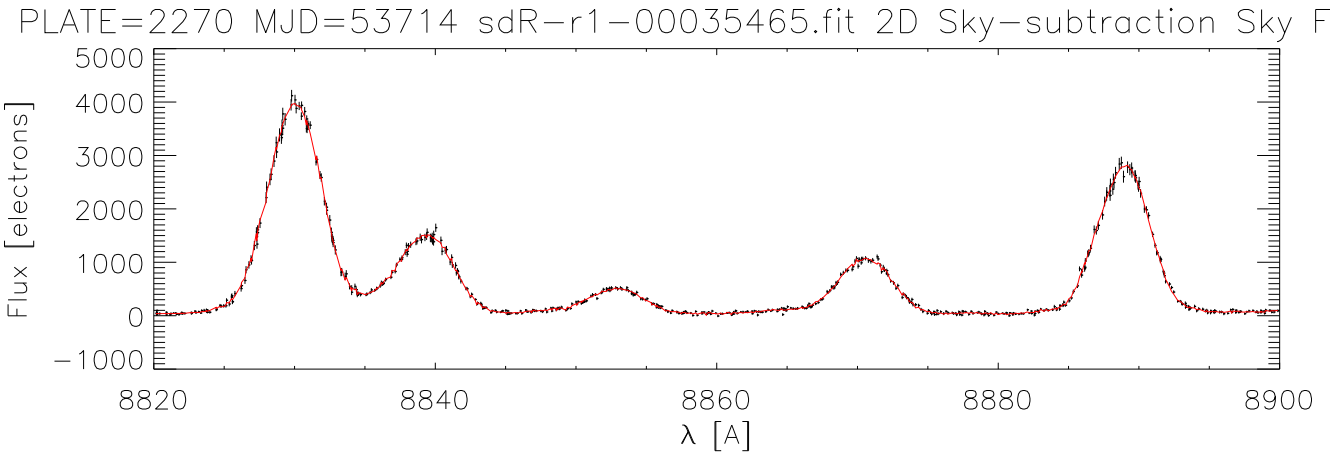

PLATE=2270 MJD=53714 sdR-r1-00035465.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

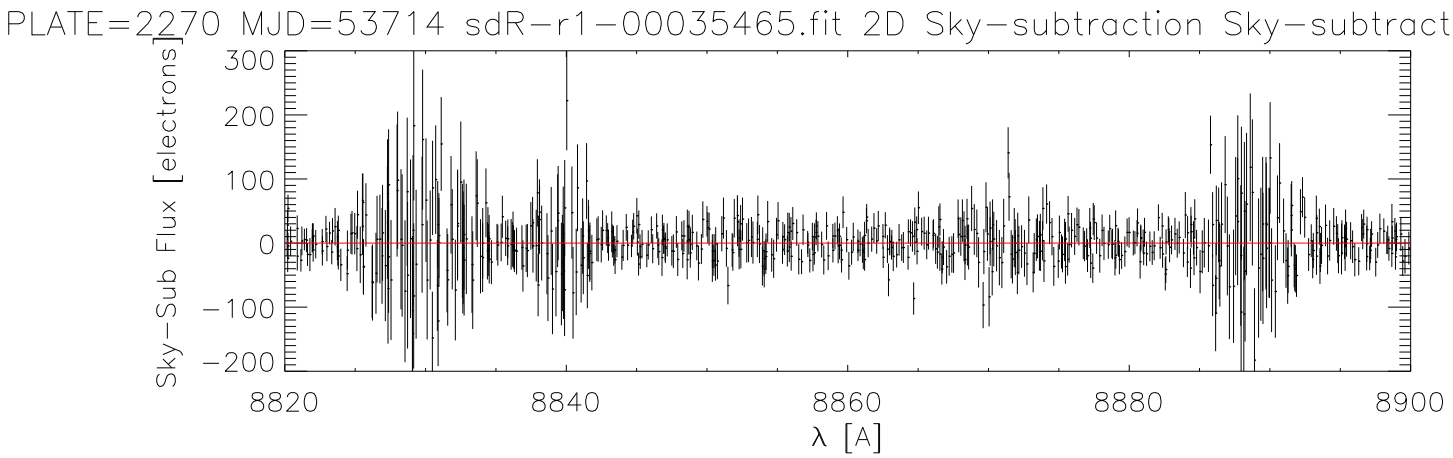

PLATE=2270 MJD=53714 sdR-r1-00035465.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

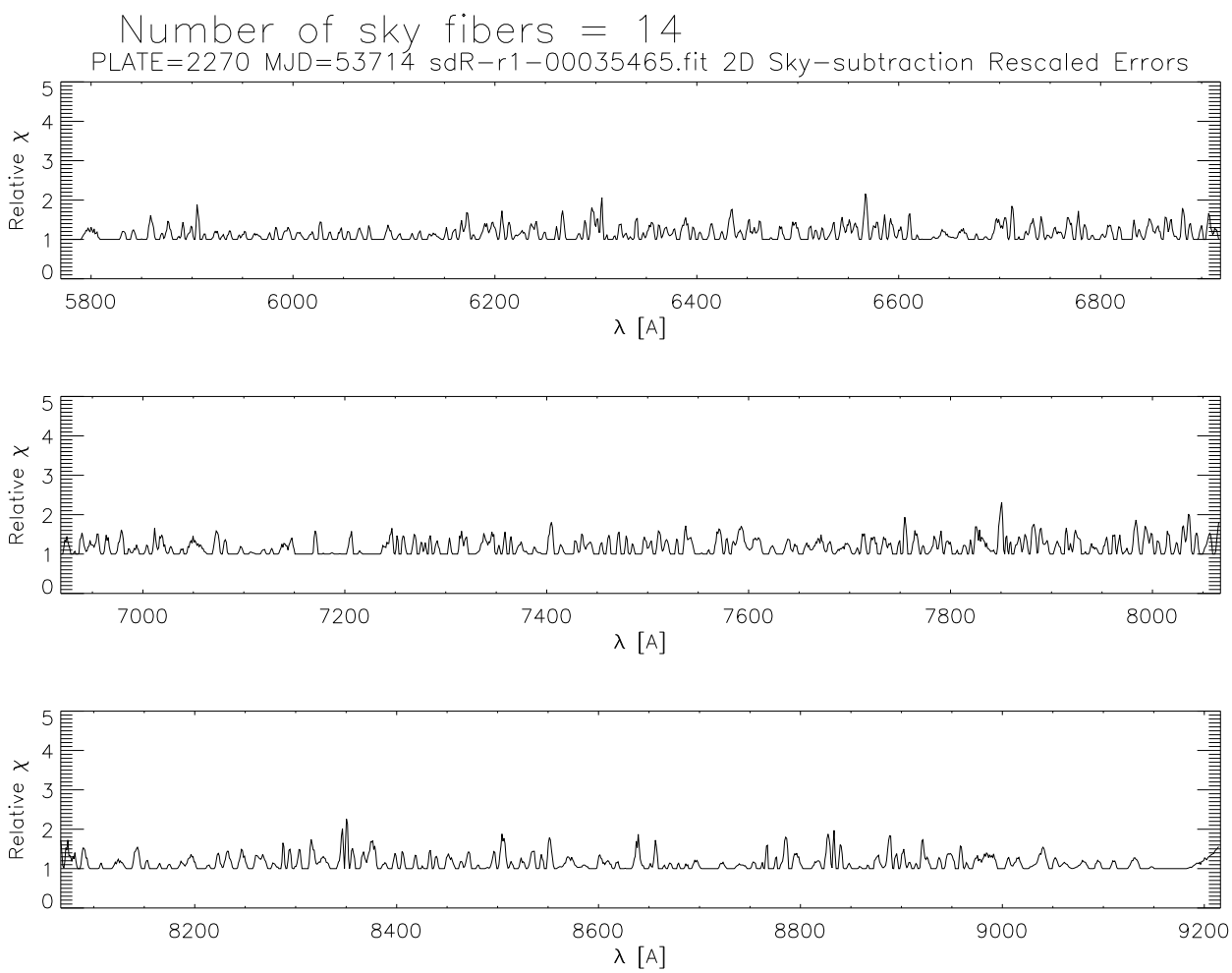

PLATE=2270 MJD=53714 sdR-r1-00035465.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

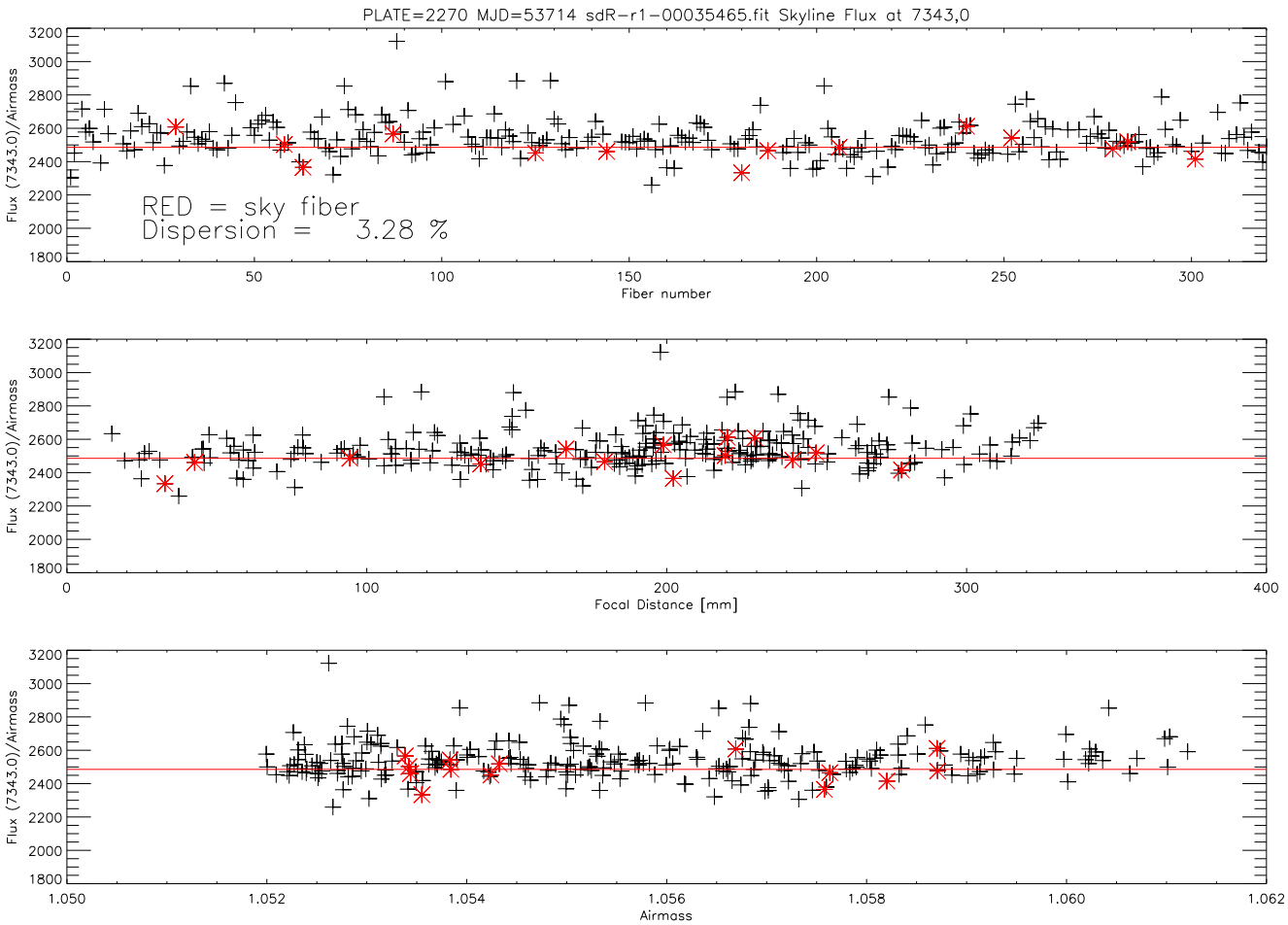

Number of sky fibers = 14
PLATE=2270 MJD=53714 sdR-r1-00035465.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

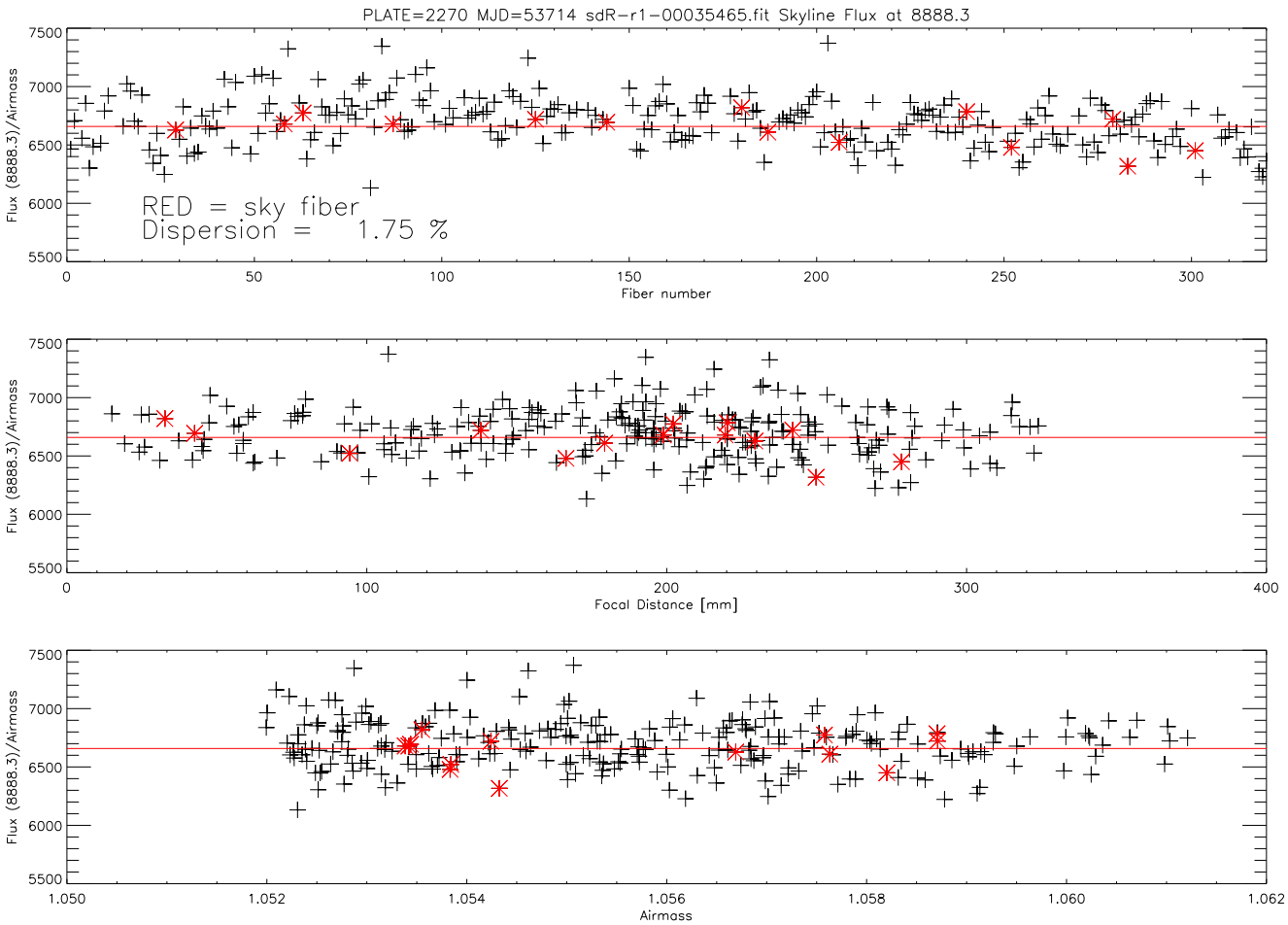

PLATE=2270 MJD=53714 sdR-r1-00035465.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
10
0
-10
-20
50
100
150
200
250
300
Fiber number

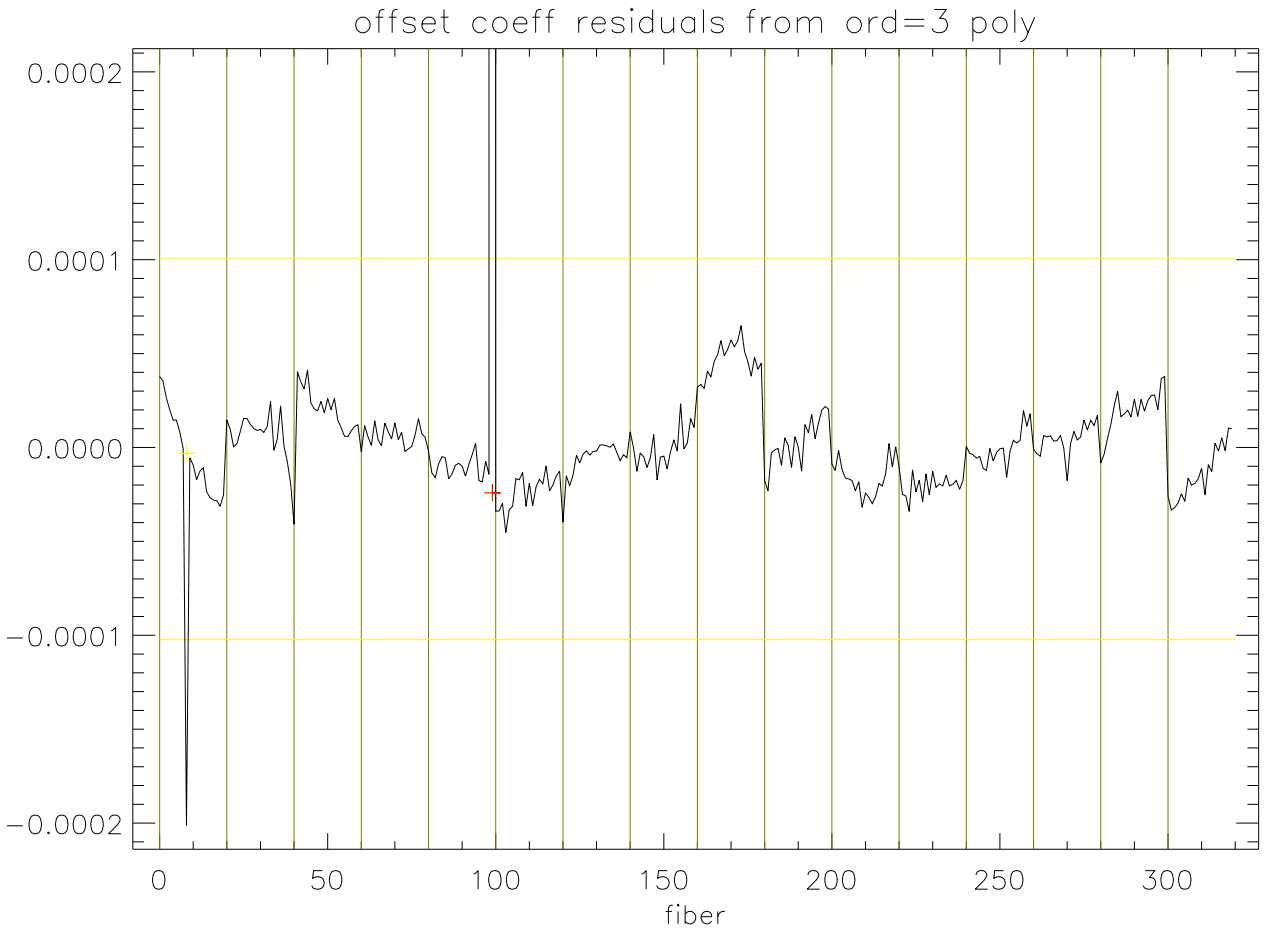

PLATE=2270 MJD=53714 sdR-r1-00035465.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

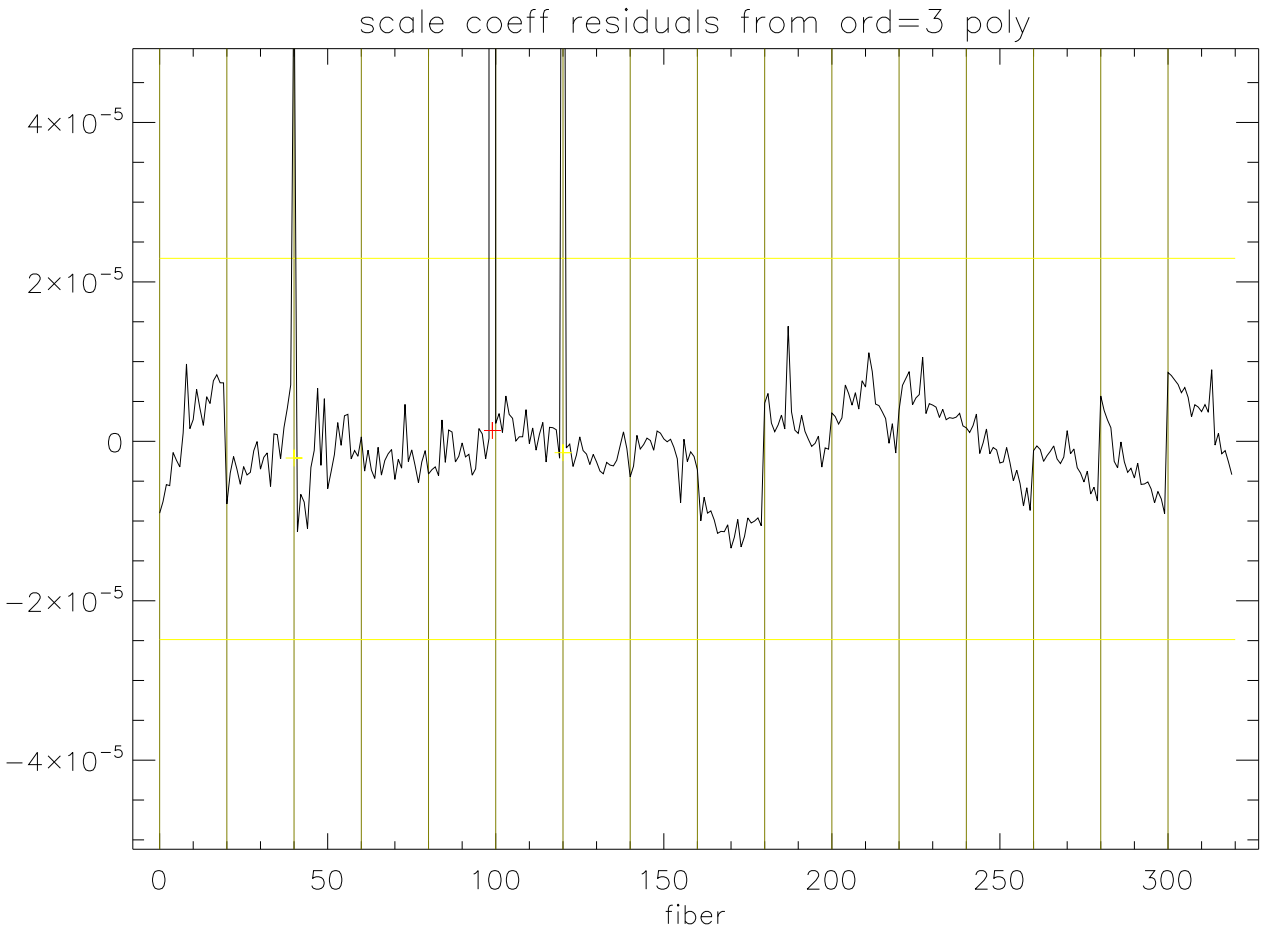

PLATE=2270 MJD=53714 sdR-r1-00035465.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

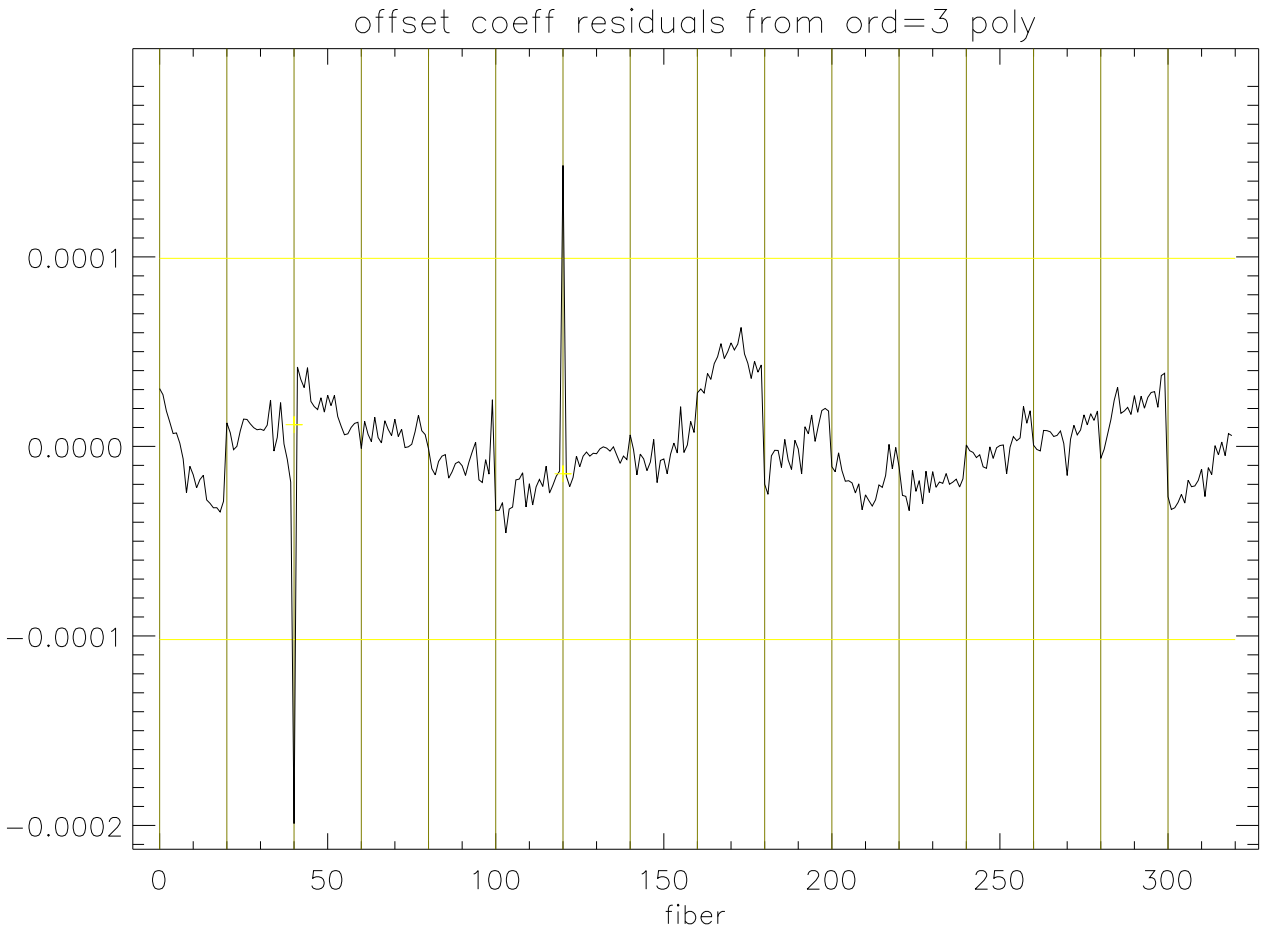

Number of sky fibers = 14
PLATE=2270 MJD=53714 sdR-r1-00035465.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

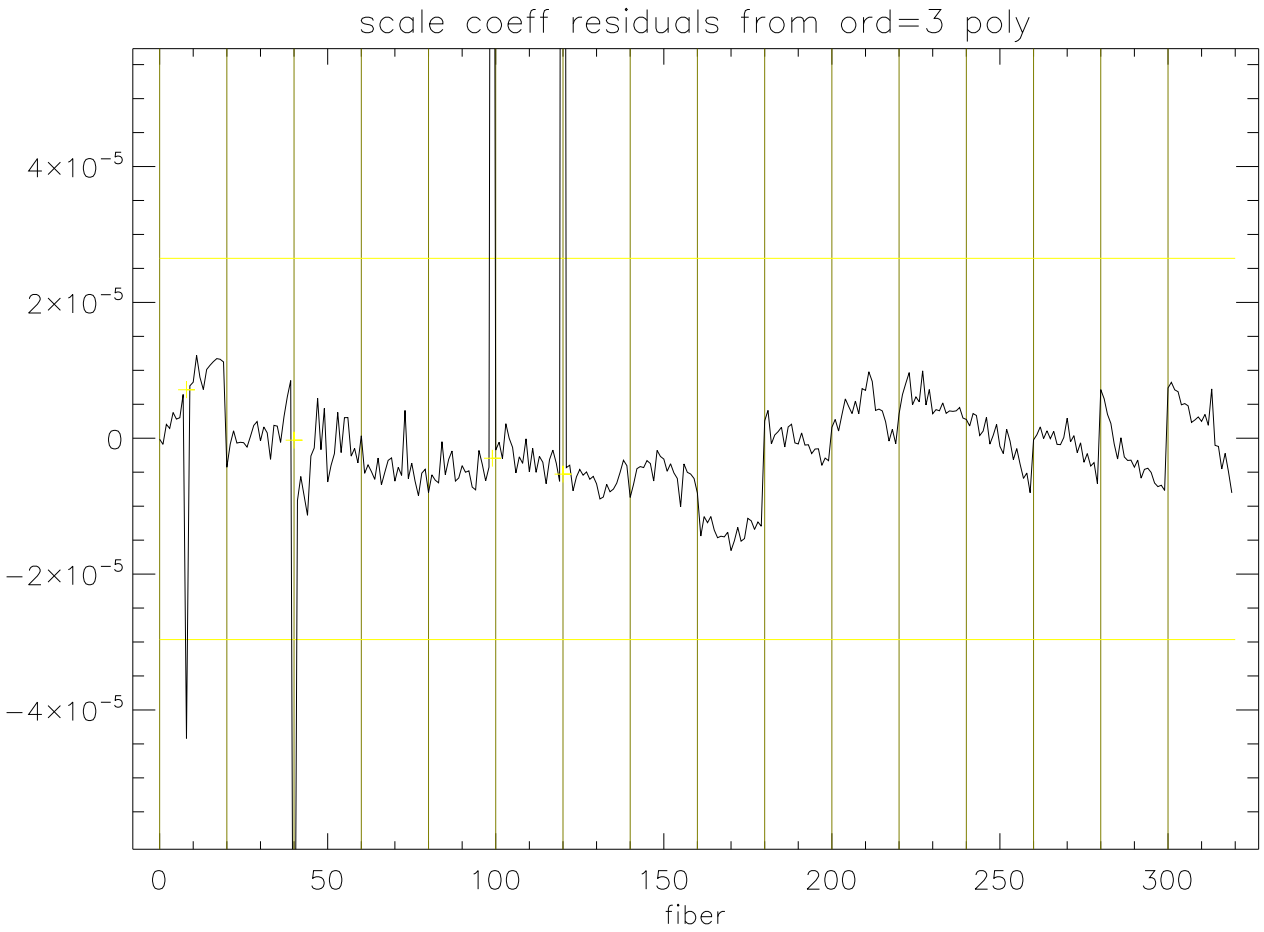

PLATE=2270 MJD=53714 sdR-r1-00035465.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.28 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

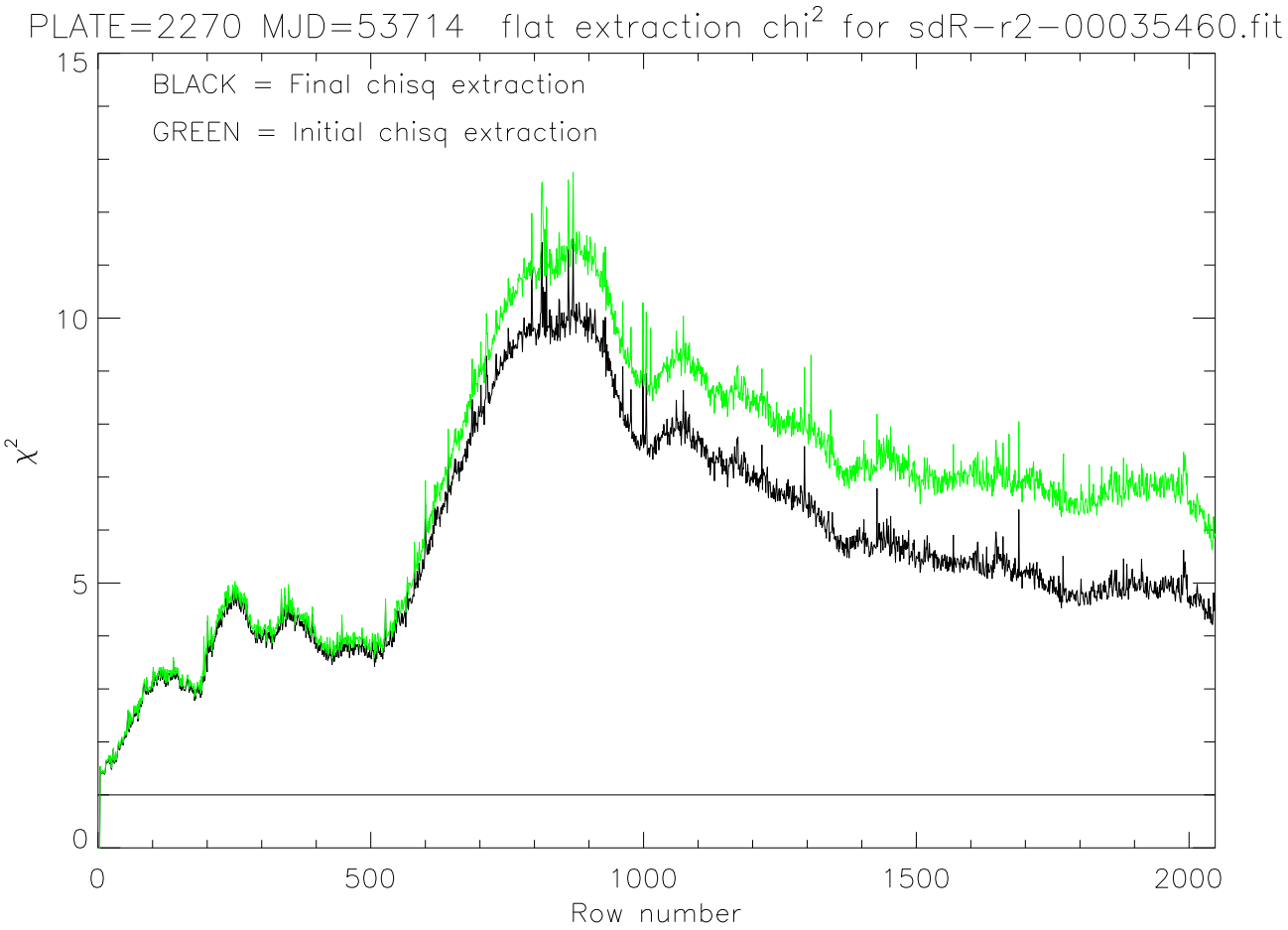

PLATE=2270 MJD=53714 sdR-r1-00035465.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.75 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

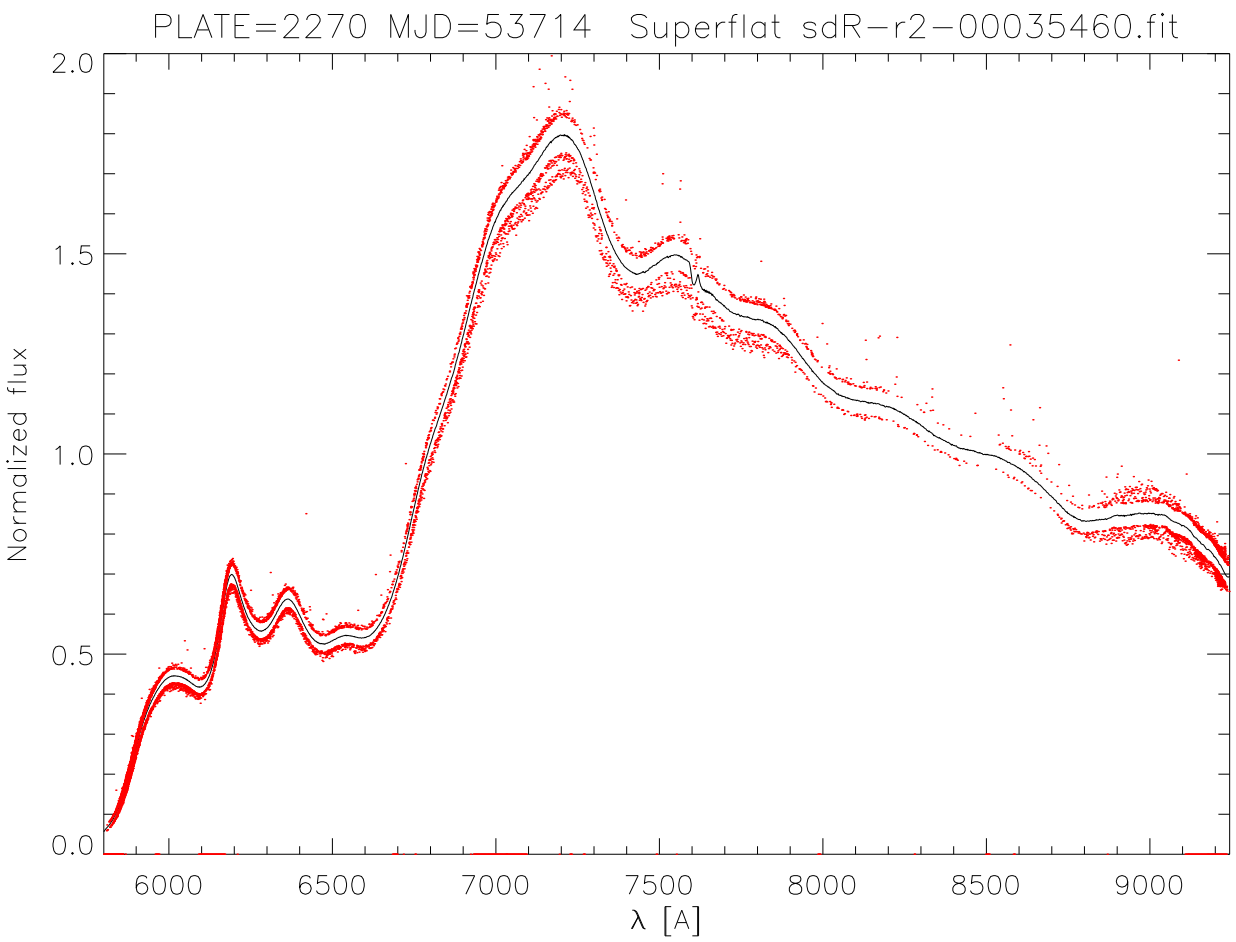

offset coeff residuals from ord=3 poly
0.0002
0.0001
0.0000
−0.0001
−0.0002
0
50
100
150
200
250
300
fiber

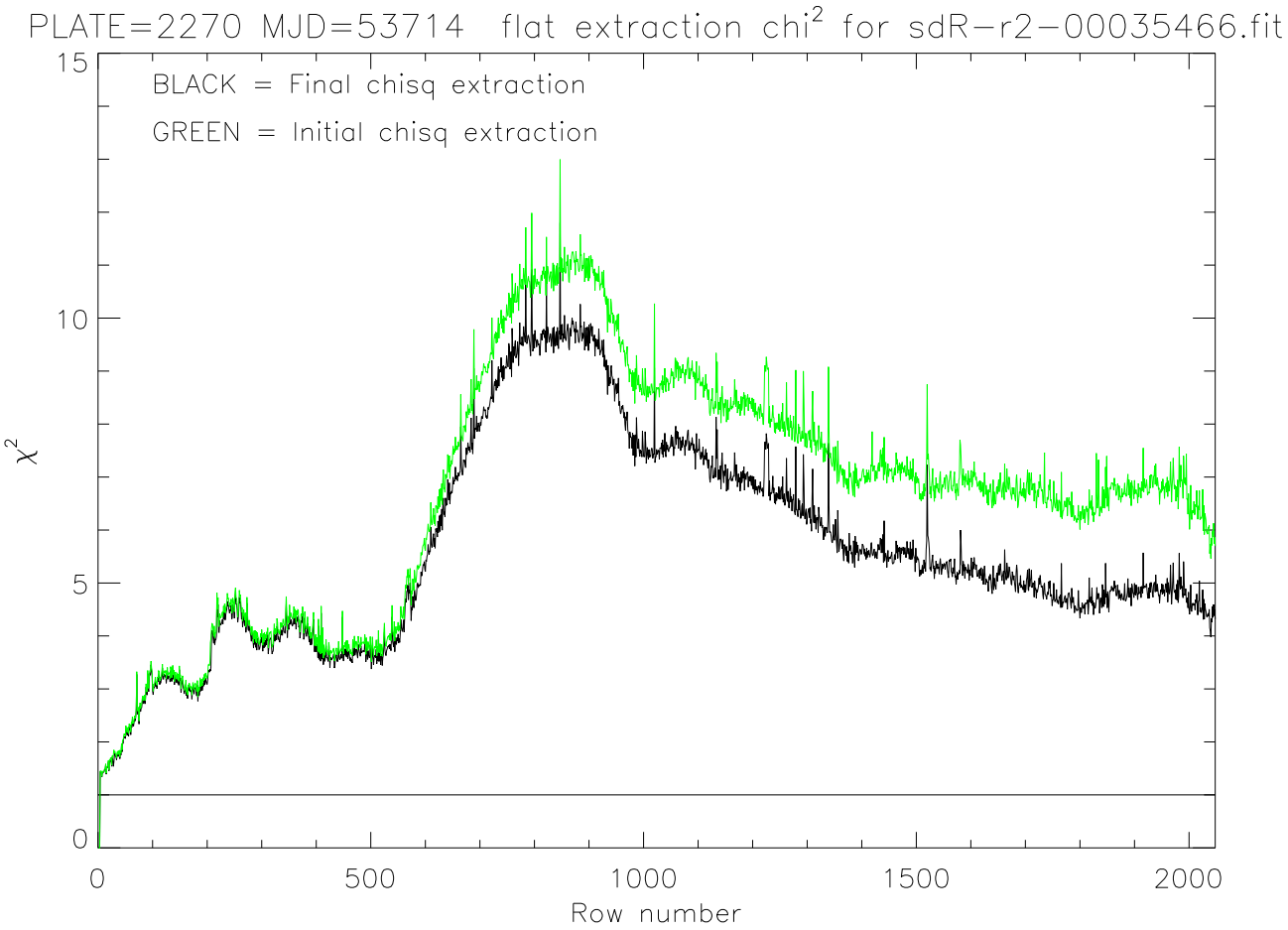

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

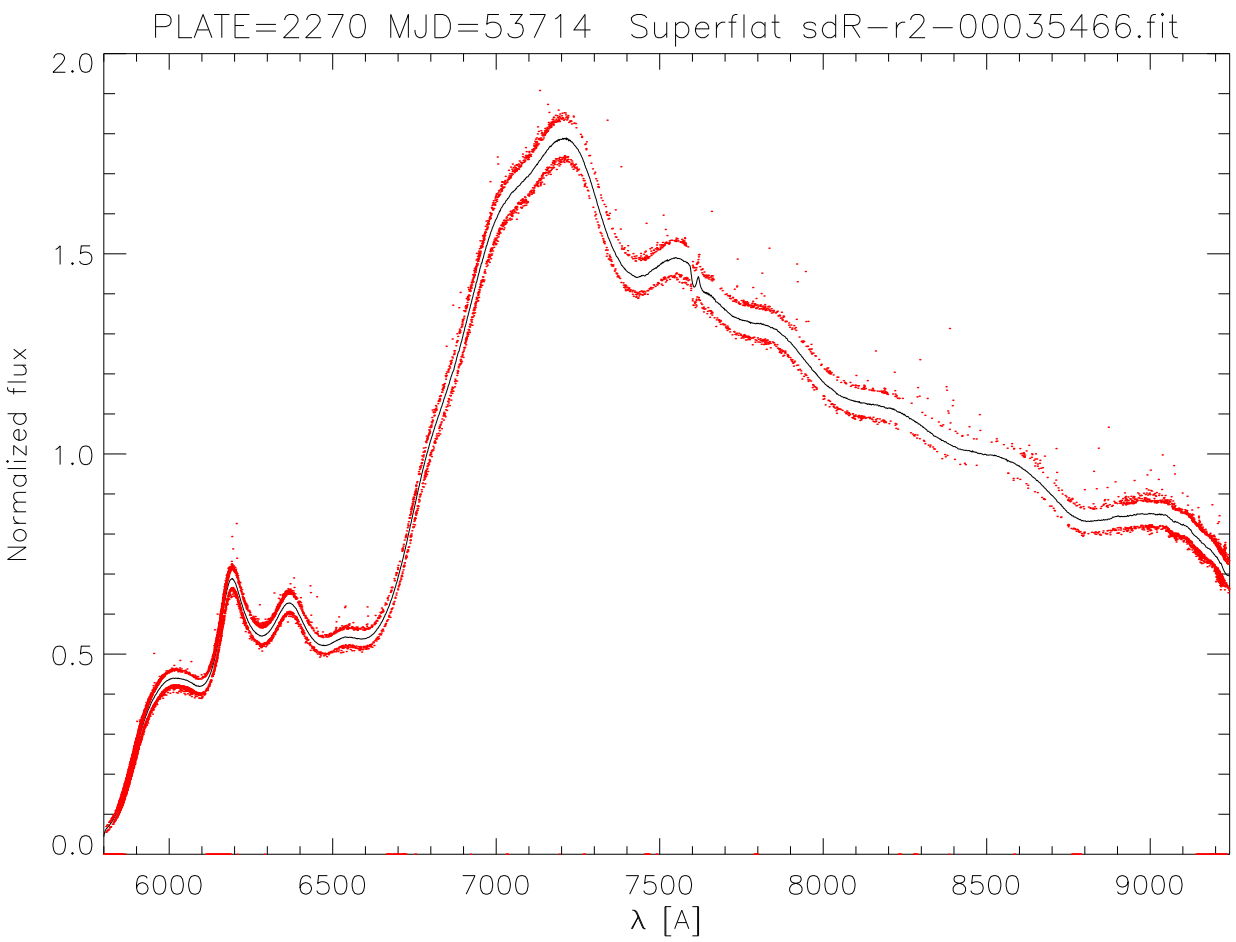

offset coeff residuals from ord=3 poly
0.0001
0.0000
−0.0001
−0.0002
0
50
100
150
200
250
300
fiber

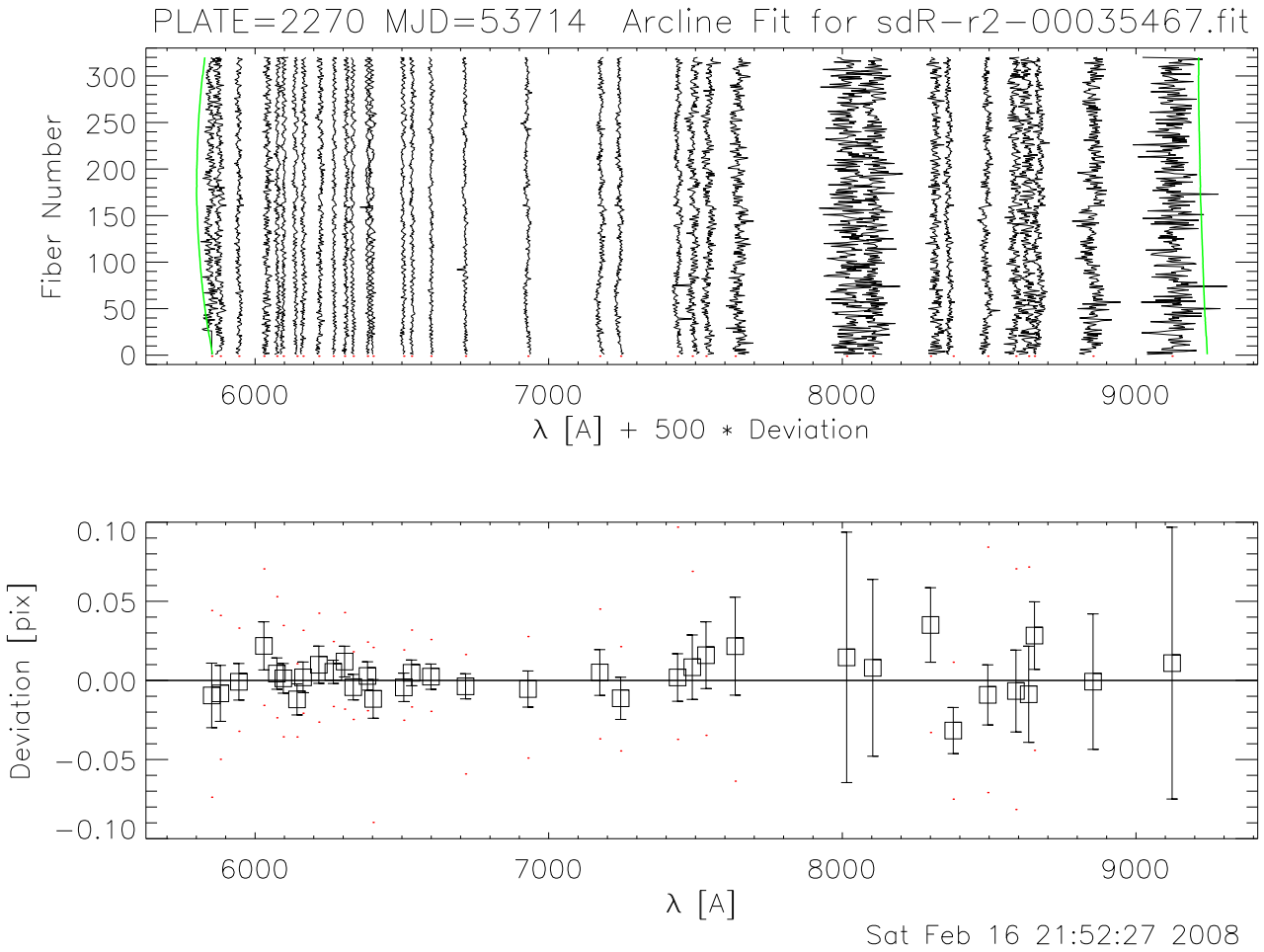

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

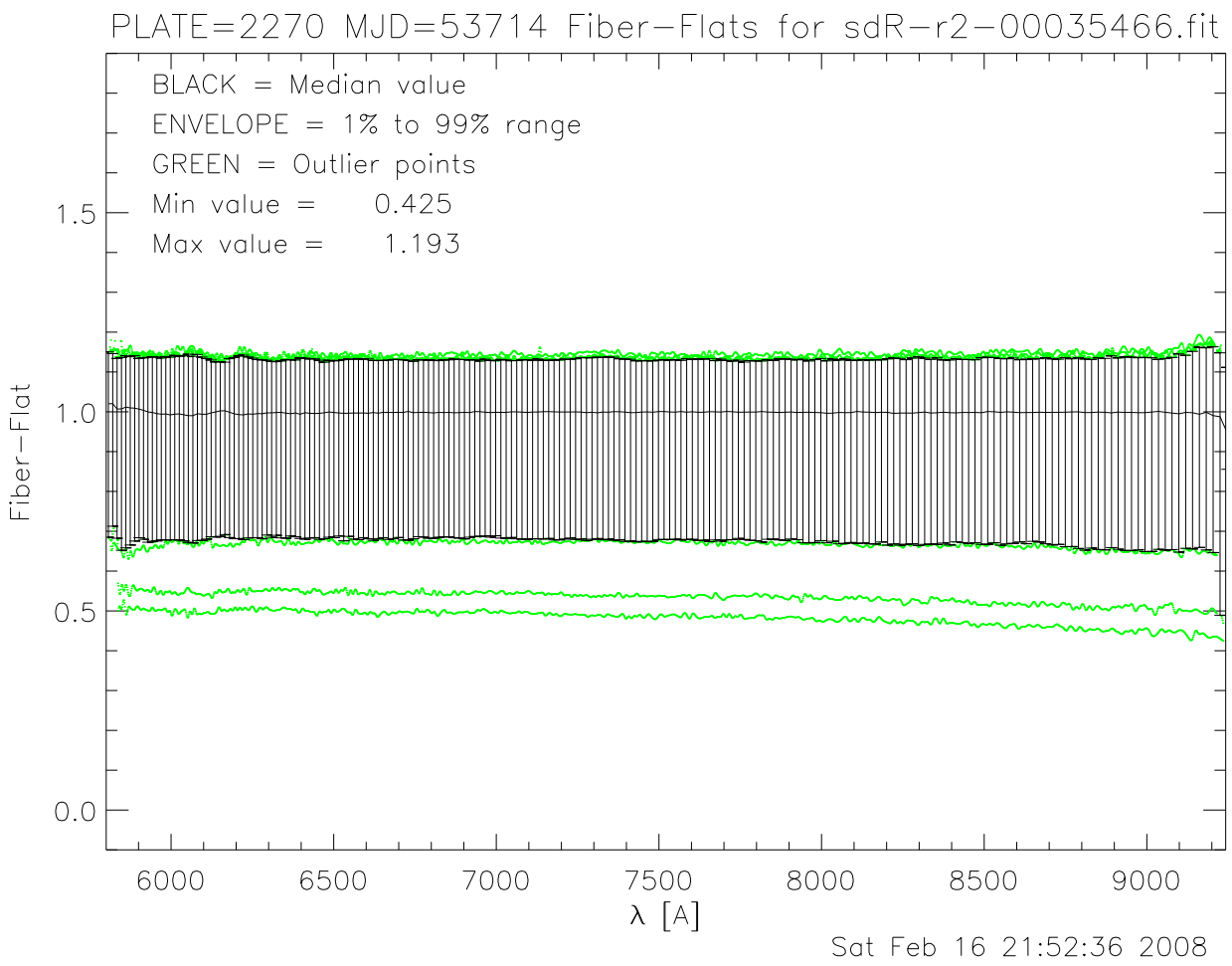

PLATE=2270 MJD=53714 flat extraction chi^2 for sdR−r2−00035460.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
5
10
15
0
500
1000
1500
2000
Row number

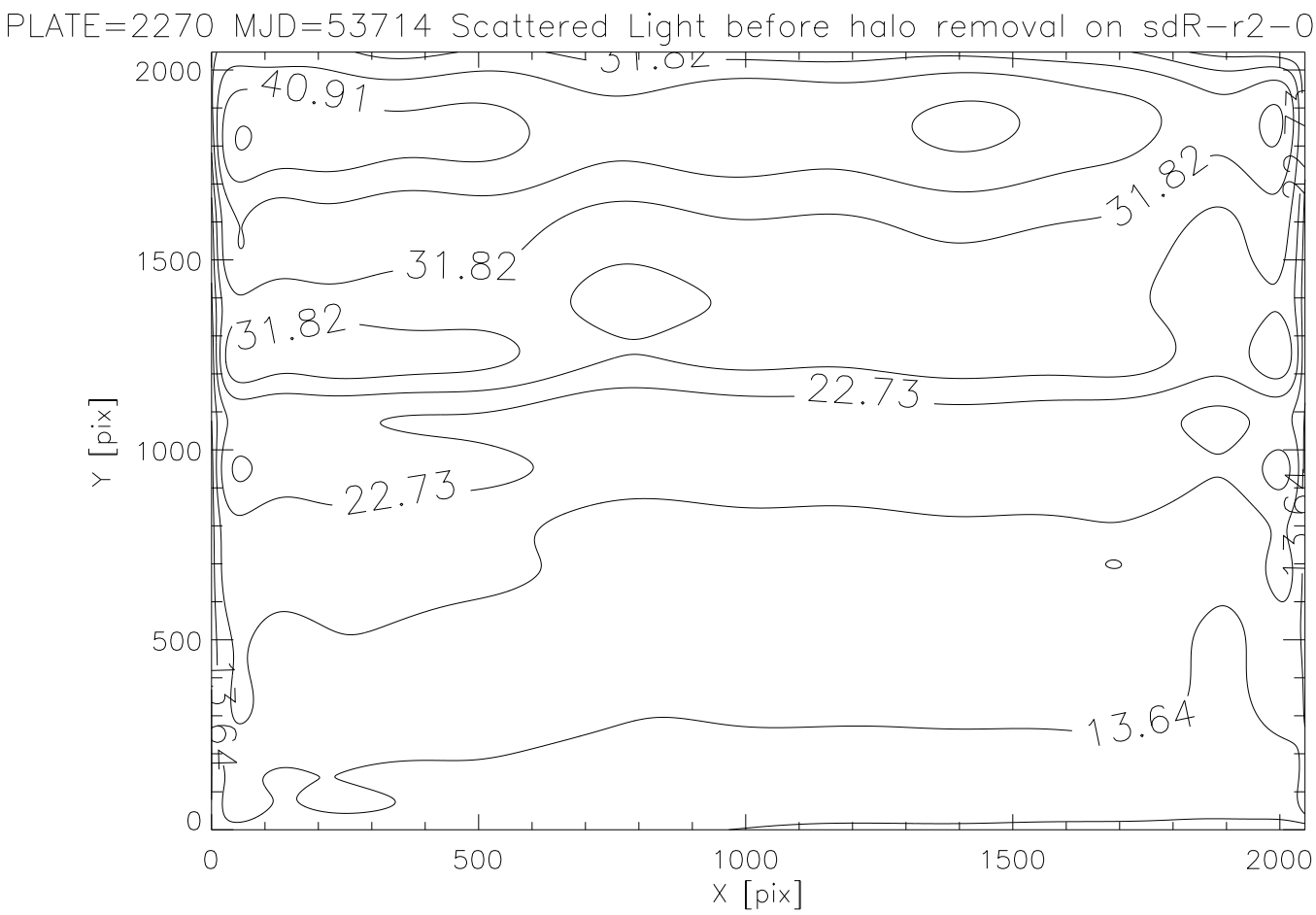

PLATE=2270 MJD=53714 Superflat sdR-r2-00035460.fit
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
6000
6500
7000
7500
8000
8500
9000

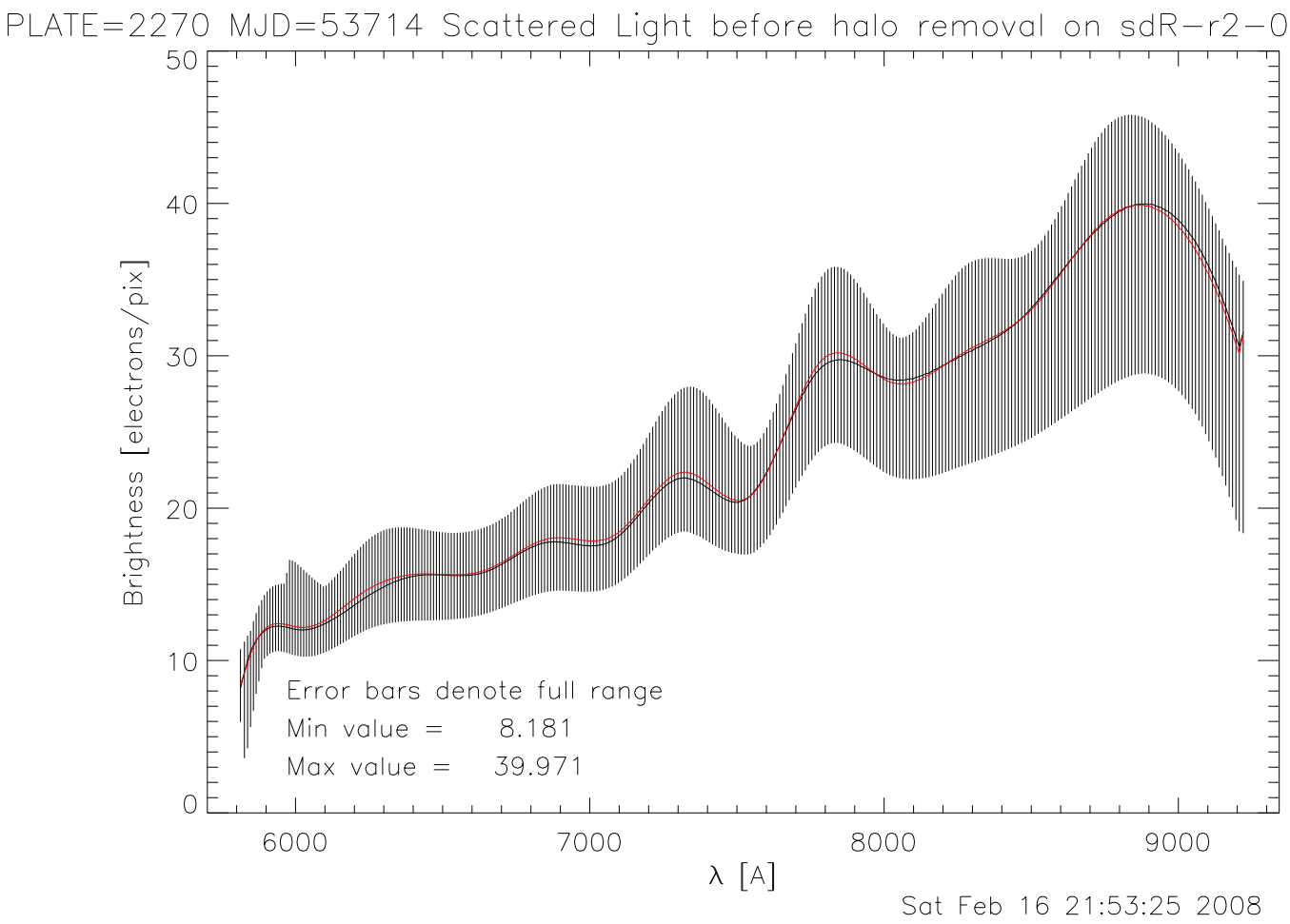

PLATE=2270 MJD=53714 flat extraction chi^2 for sdR−r2−00035466.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
5
10
15
0
500
1000
1500
2000
Row number

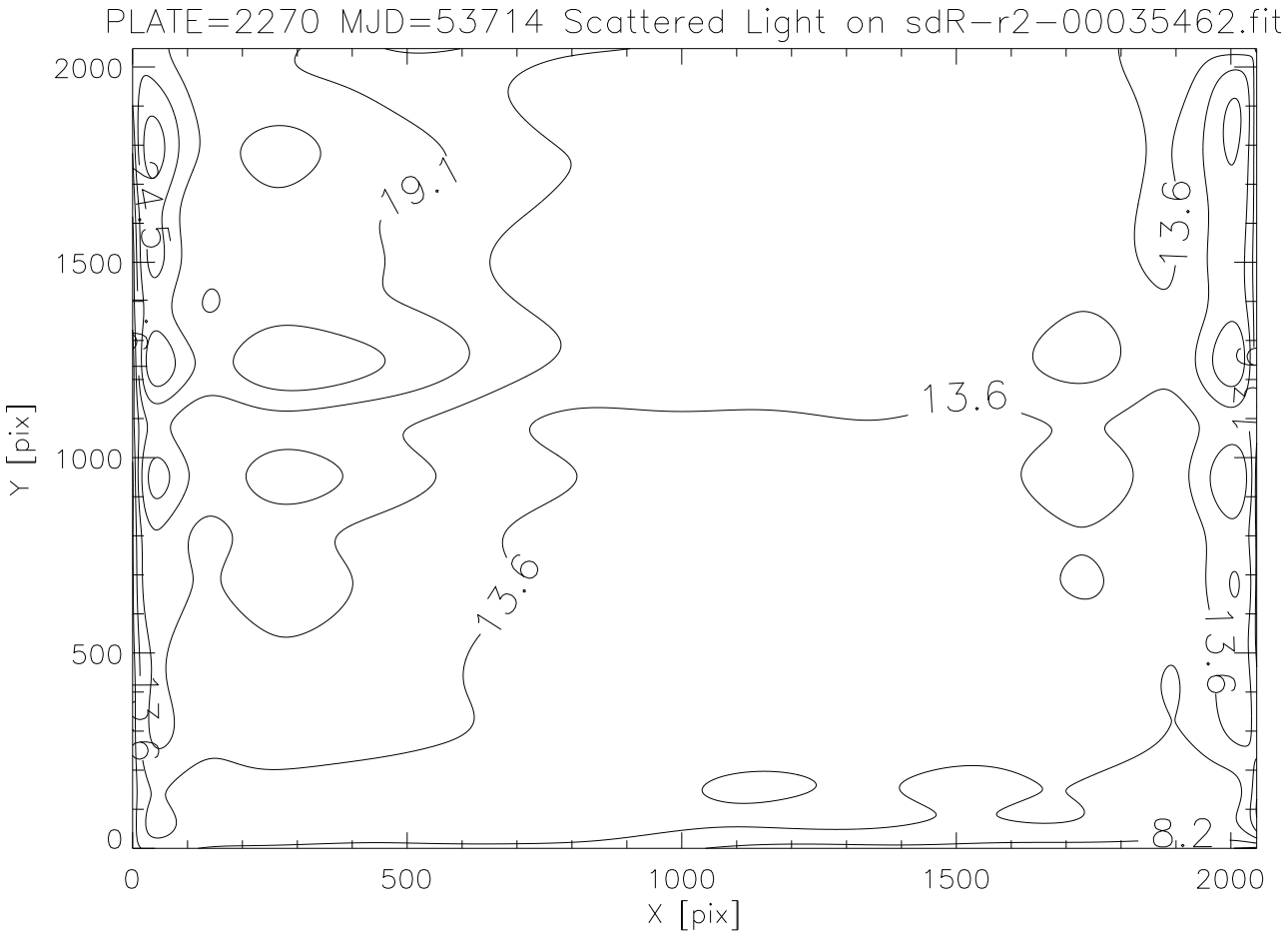

PLATE=2270 MJD=53714 Superflat sdR-r2-00035466.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

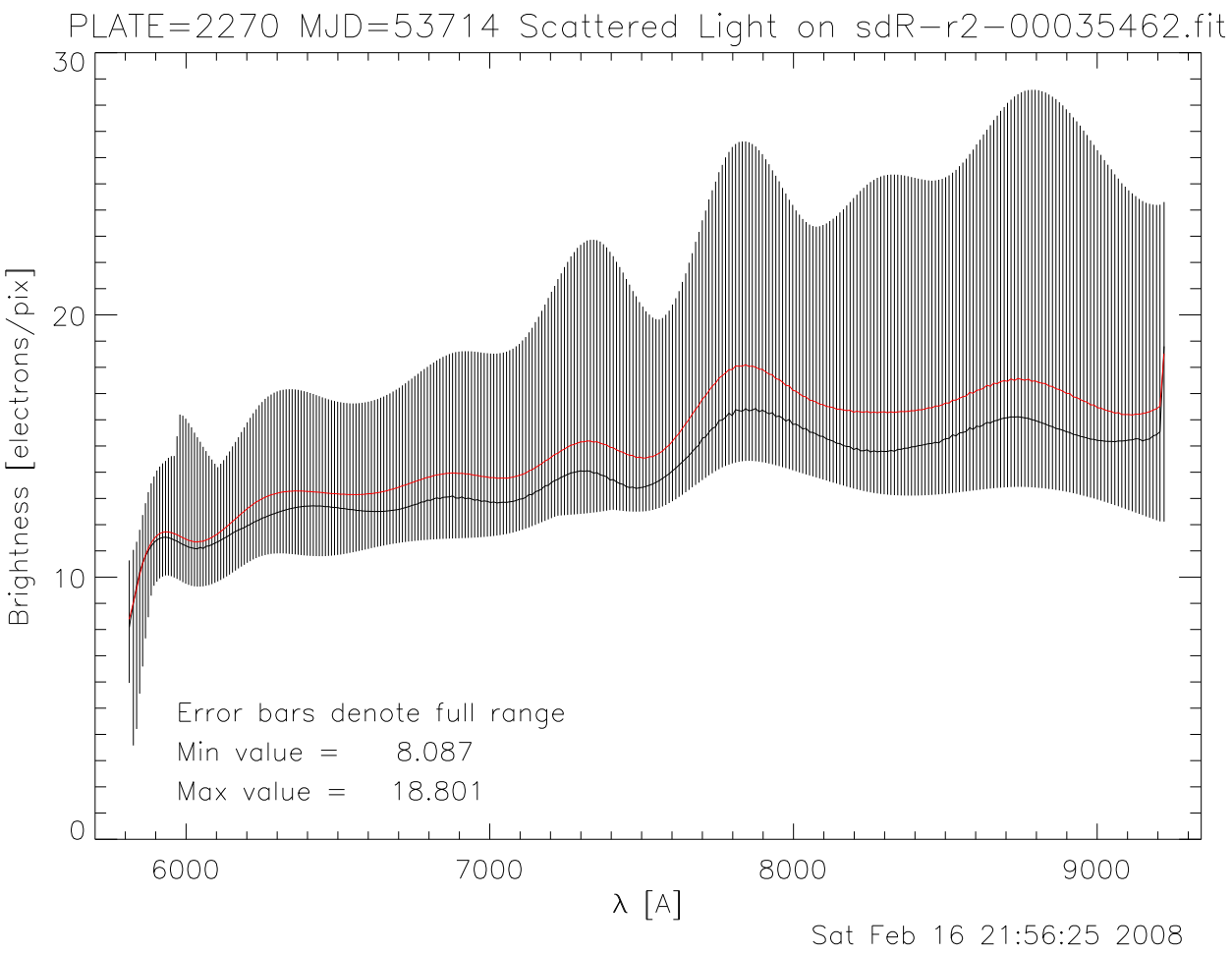

PLATE=2270 MJD=53714 Arcline Fit for sdR-r2-00035467.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Sat Feb 16 21:52:27 2008

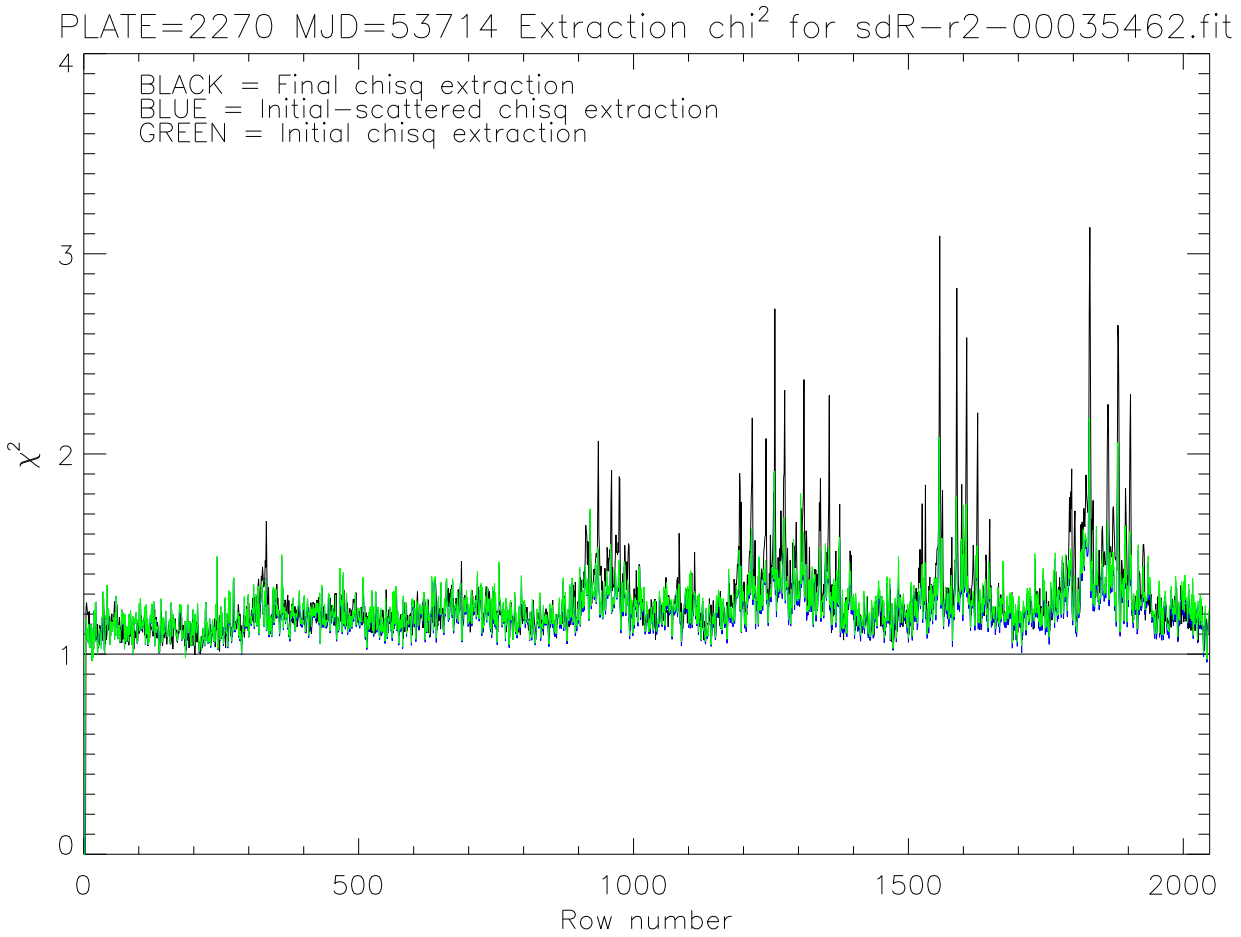

PLATE=2270 MJD=53714 Fiber−Flats for sdR−r2−00035466.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.425
Max value = 1.193
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sat Feb 16 21:52:36 2008

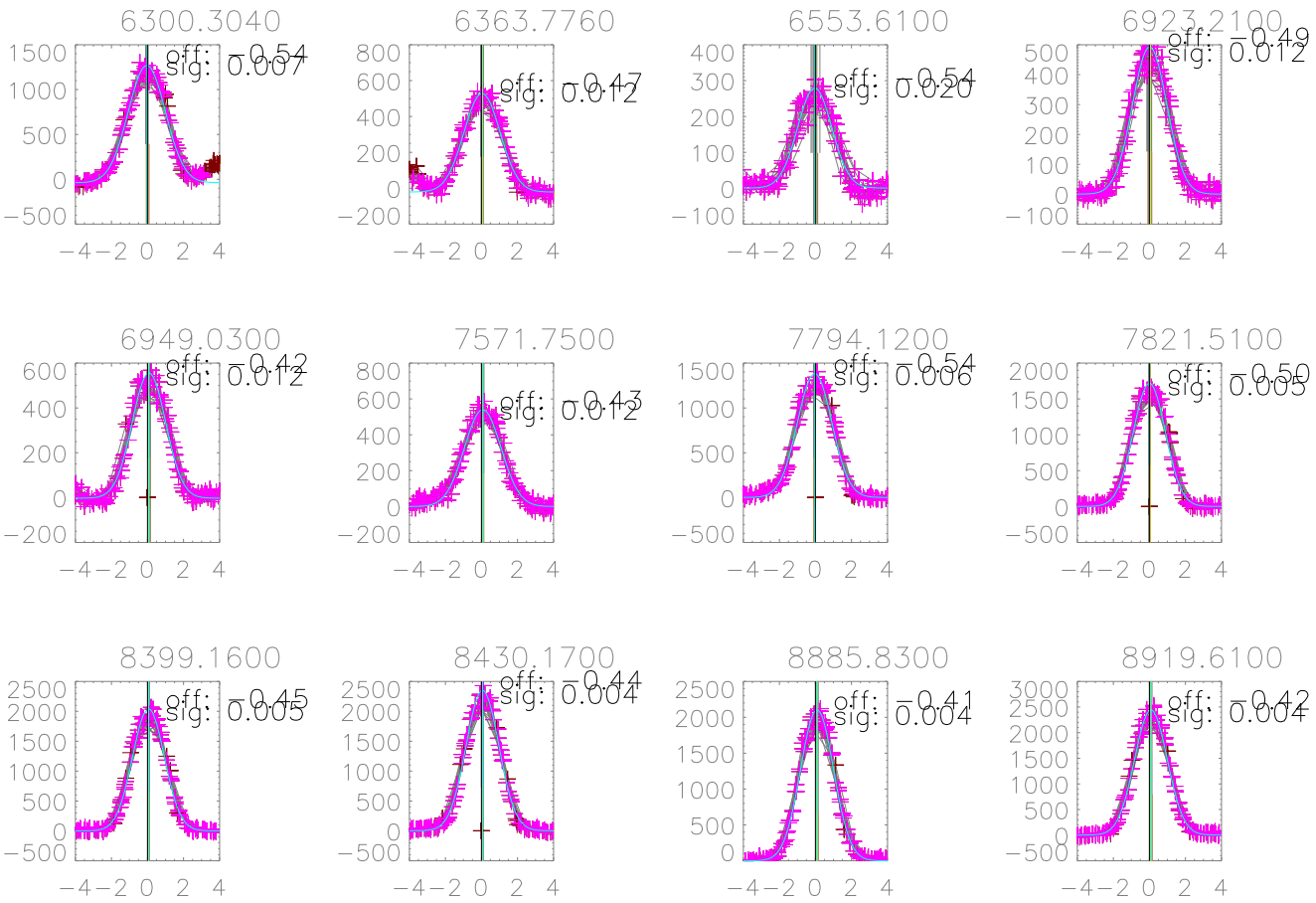

PLATE=2270 MJD=53714 Scattered Light before halo removal on sdR-r2-00035462.fi
40.91
0
31.82
31.82
31.82
22.73
0
22.73
13.64
13.64
13.64
0
Y [pix]
X [pix]
0
500
1000
1500
2000

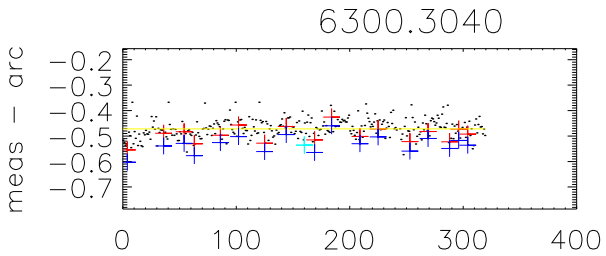

PLATE=2270 MJD=53714 Scattered Light before halo removal on sdR-r2-00035462.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 8.181
Max value = 39.971
Sat Feb 16 21:53:25 2008

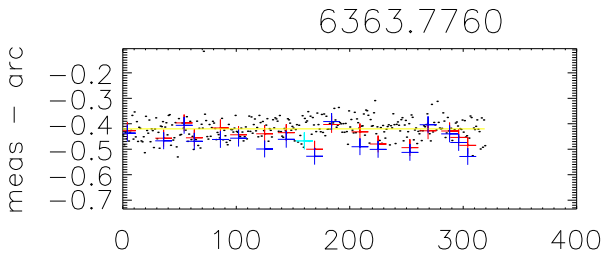

PLATE=2270 MJD=53714 Scattered Light on sdR-r2-00035462.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
19.1
13.6
0
-24.5
-13.6
8.2

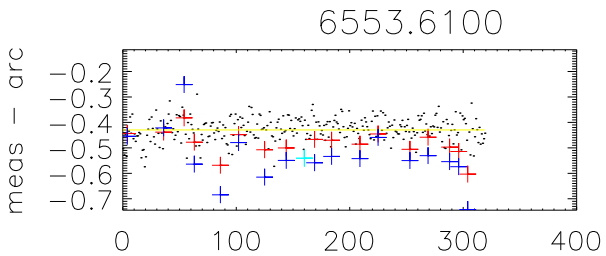

PLATE=2270 MJD=53714 Scattered Light on sdR-r2-00035462.fit
Brightness [electrons/pix]
30
20
10
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 8.087
Max value = 18.801
Sat Feb 16 21:56:25 2008

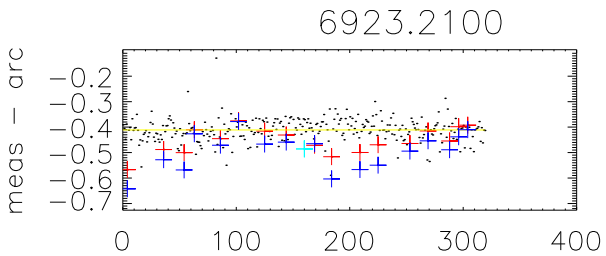

PLATE=2270 MJD=53714 Extraction chi^2 for sdR−r2−00035462.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

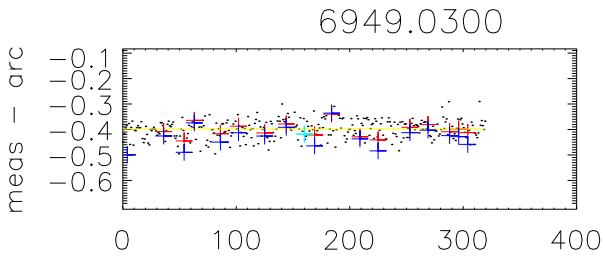

6300.3040
off: −0.54
sig: 0.007
6363.7760
off: −0.47
sig: 0.012
6553.6100
off: −0.54
sig: 0.020
6923.2100
off: −0.49
sig: 0.012
6949.0300
off: −0.42
sig: 0.012
7571.7500
off: −0.43
sig: 0.012
7794.1200
off: −0.54
sig: 0.006
7821.5100
off: −0.50
sig: 0.005
8399.1600
off: −0.45
sig: 0.005
8430.1700
off: −0.44
sig: 0.004
8885.8300
off: −0.41
sig: 0.004
8919.6100
off: −0.42
sig: 0.004

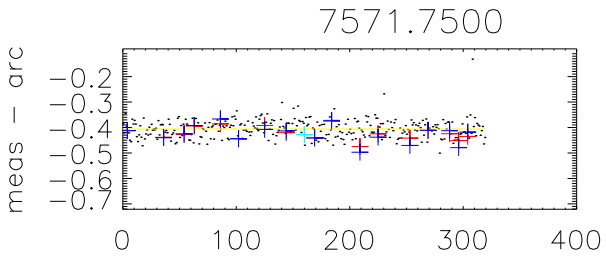

6300.3040
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

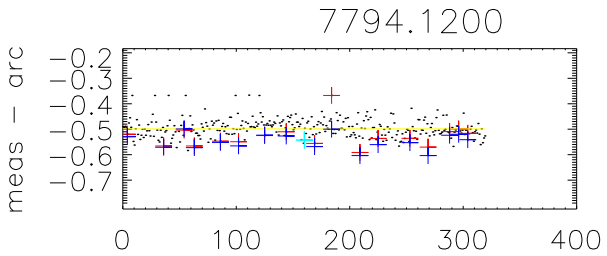

6363.7760
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

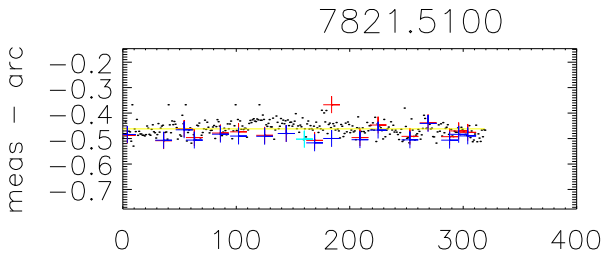

6553.6100
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

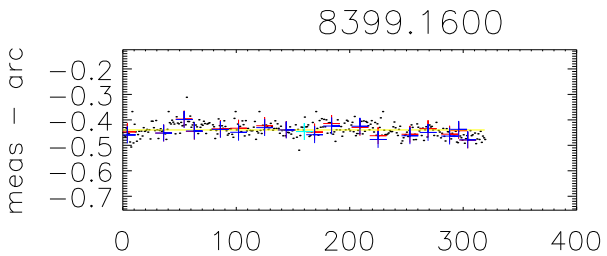

6923.2100
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

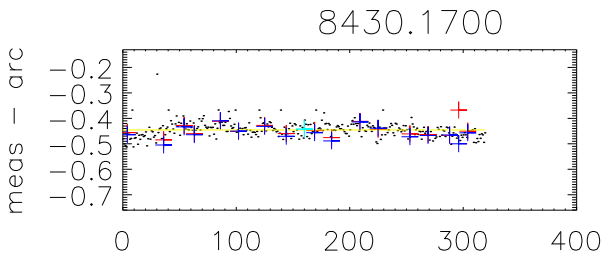

6949.0300
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

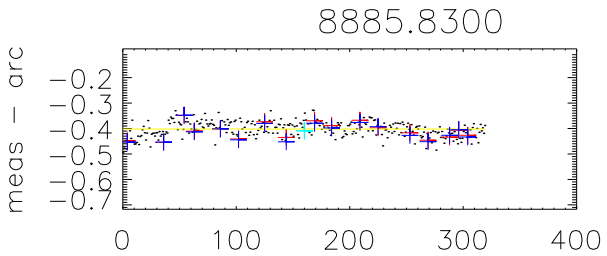

7571.7500
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

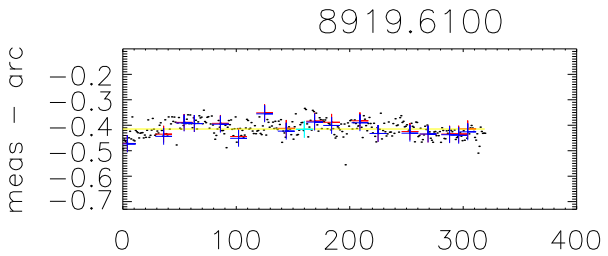

7794.1200
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

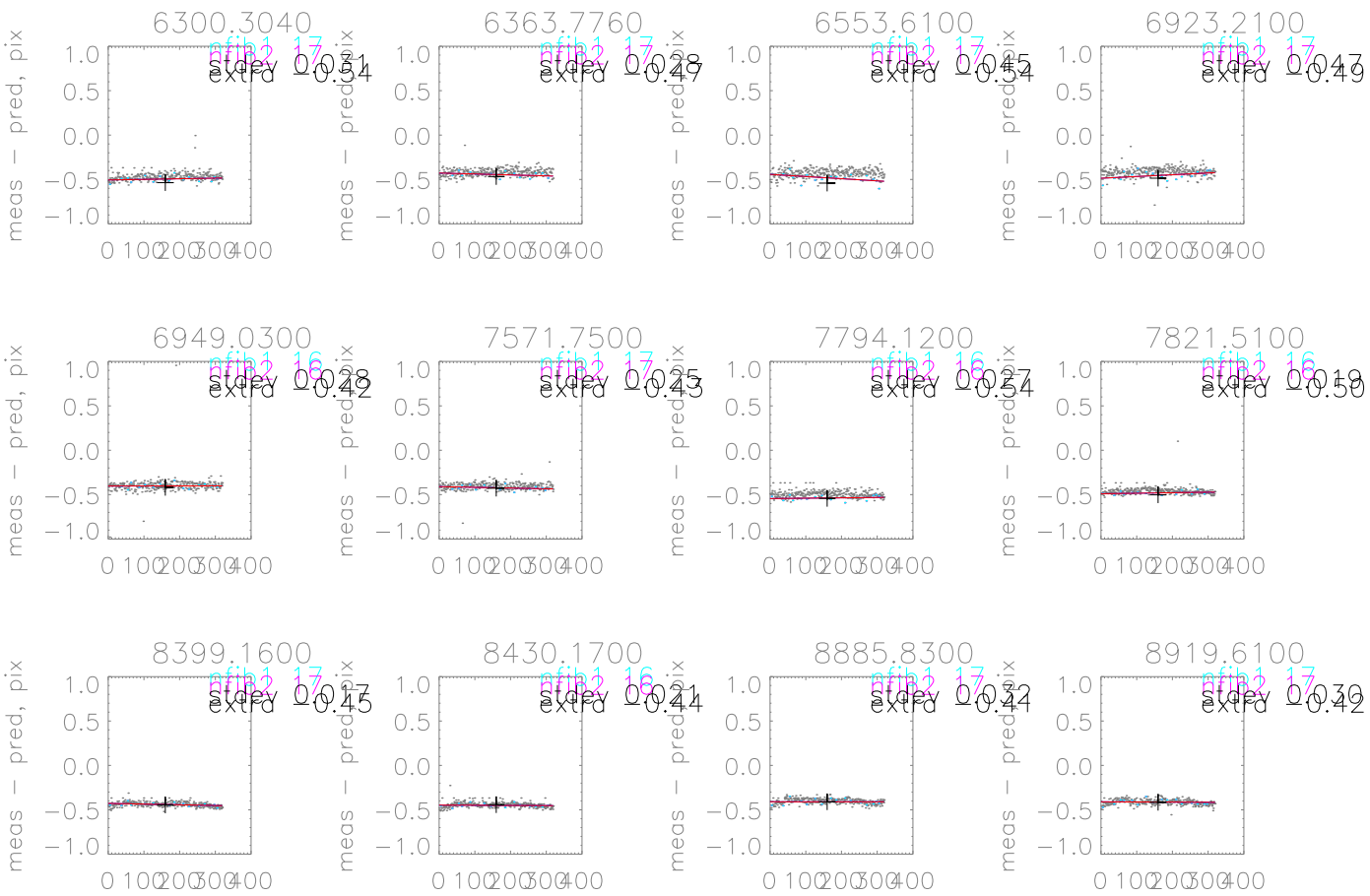

7821.5100
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

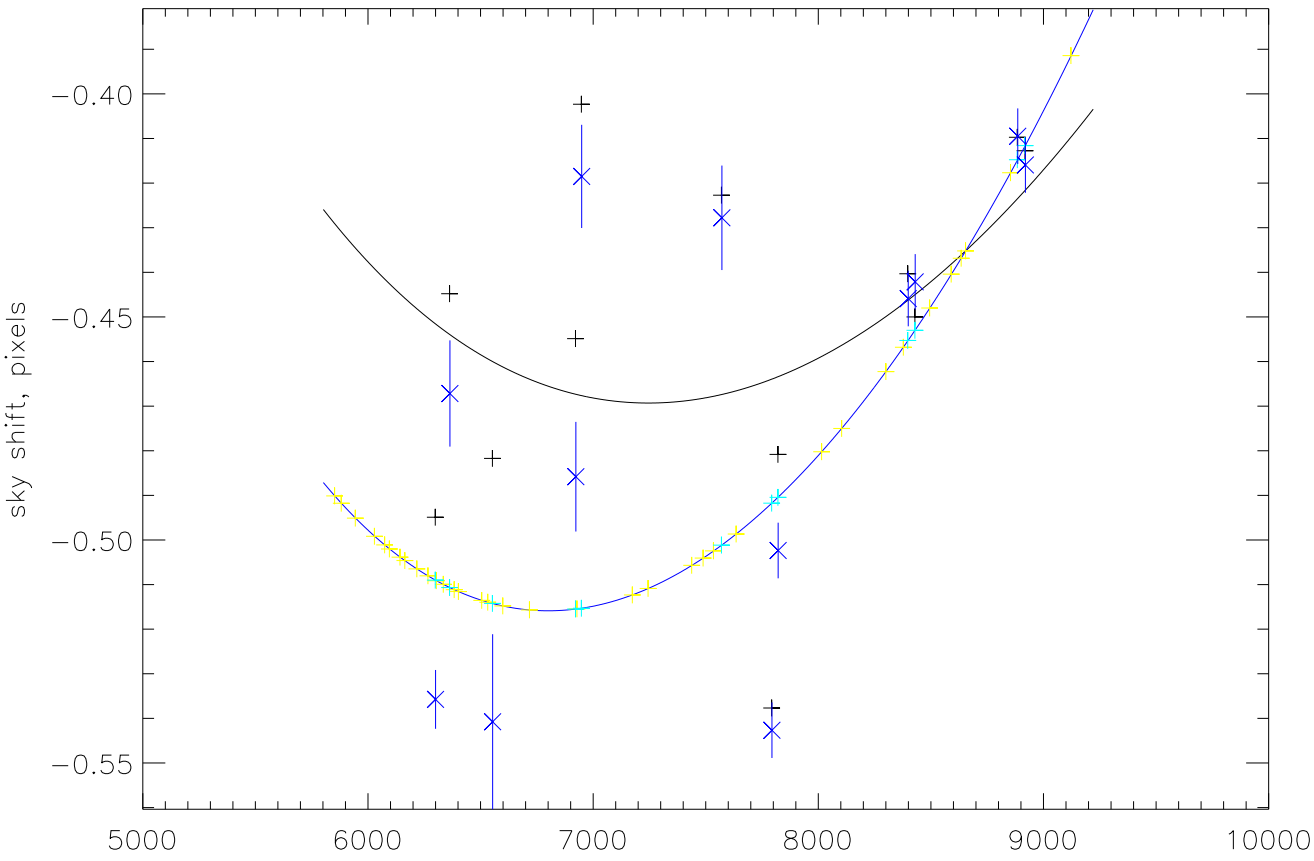

8399.1600
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

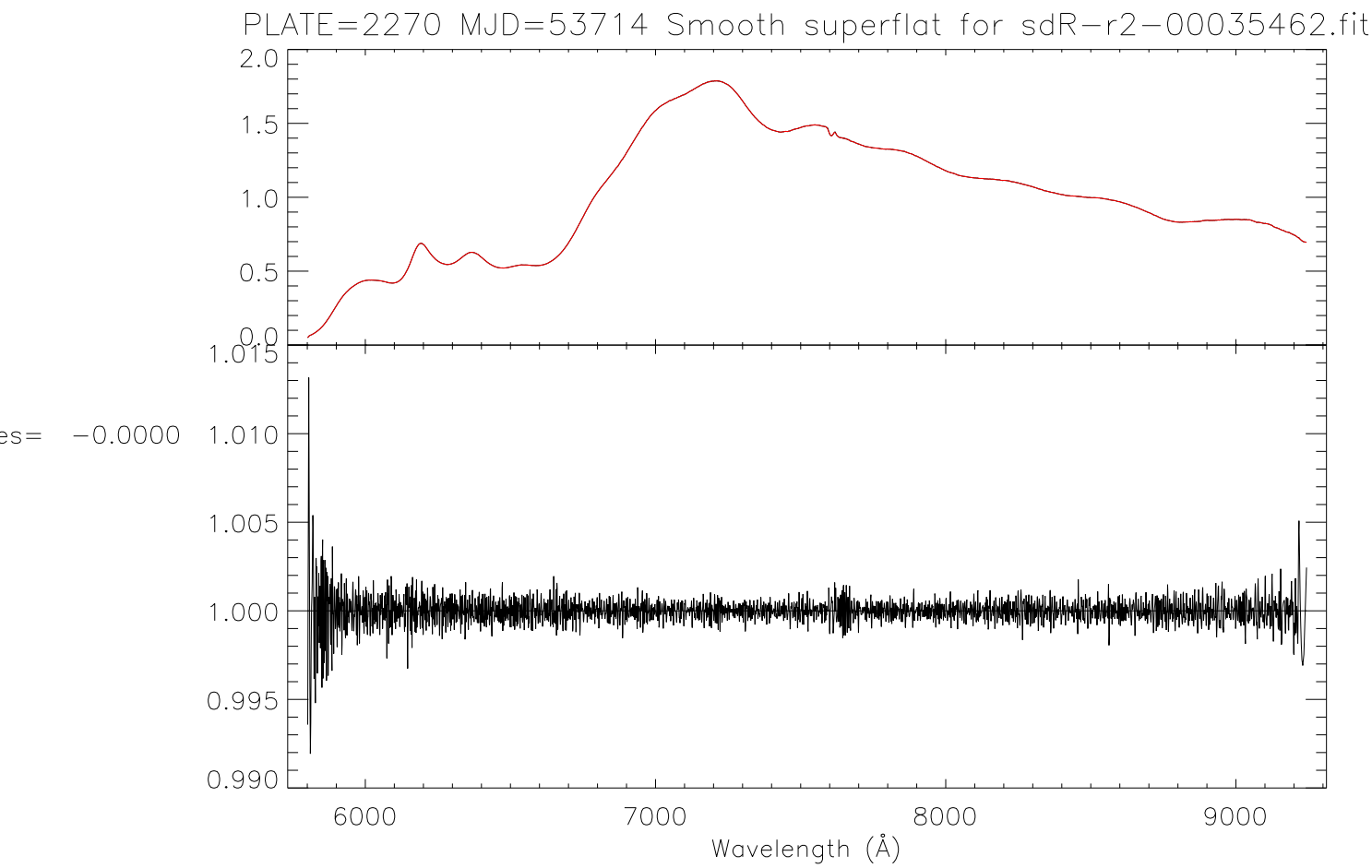

8430.1700
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

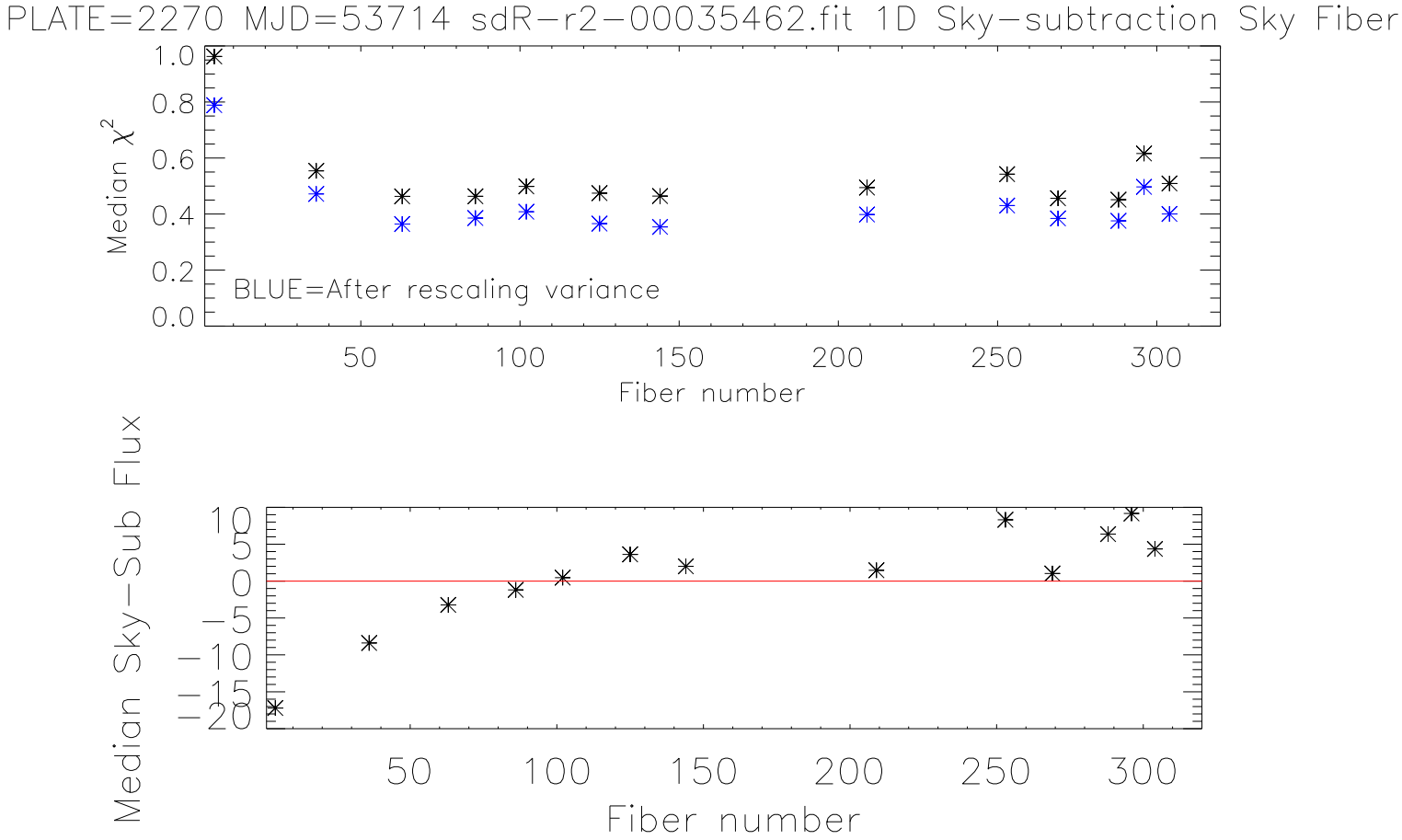

8885.8300
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

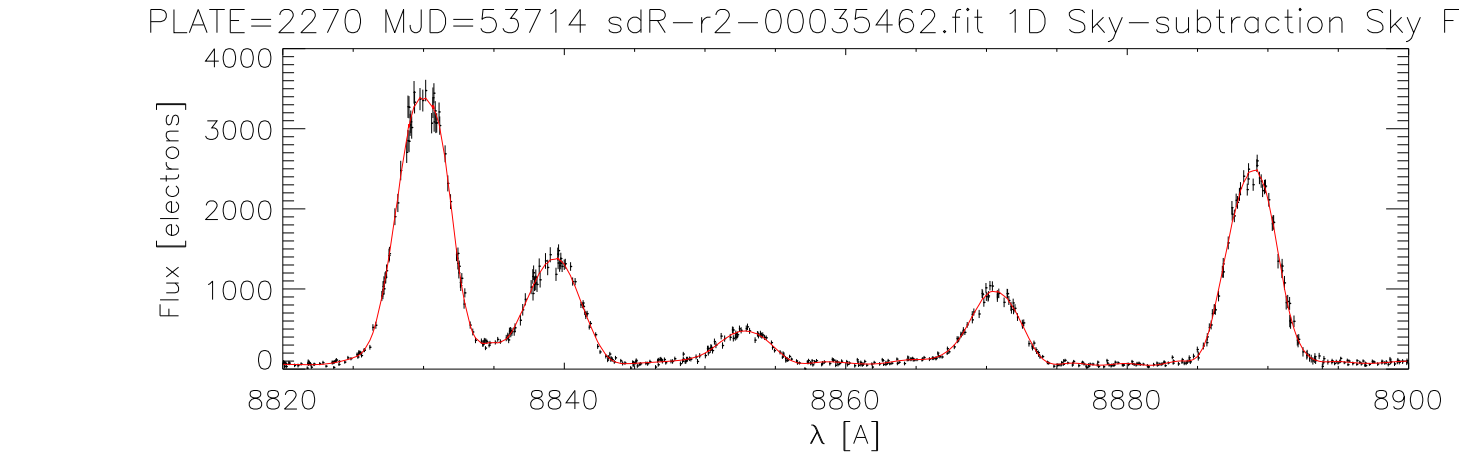

8919.6100
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

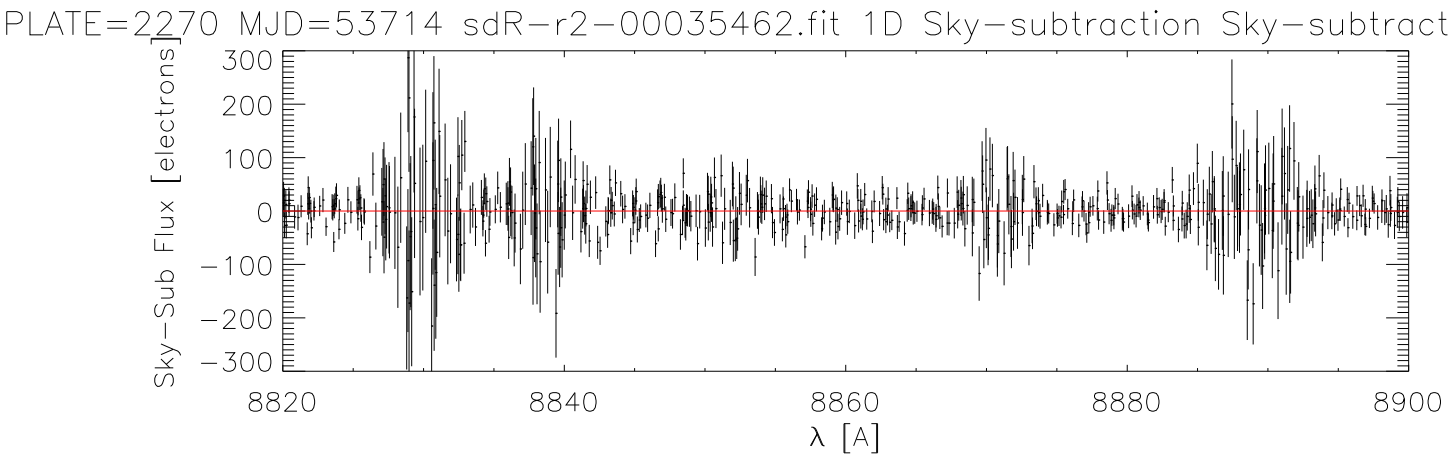

6300.3040
6363.7760
6553.6100
6923.2100
6949.0300
7571.7500
7794.1200
7821.5100
8399.1600
8430.1700
8885.8300
8919.6100
meas − pred, pix
mfb2 17
mfb2 16
stdev 0.031
extra 0.54
stdev 0.028
extra 0.47
stdev 0.045
extra 0.54
stdev 0.047
extra 0.49
stdev 0.028
extra 0.42
stdev 0.025
extra 0.43
stdev 0.027
extra 0.54
stdev 0.019
extra 0.50
stdev 0.017
extra 0.45
stdev 0.021
extra 0.44
stdev 0.032
extra 0.44
stdev 0.030
extra 0.42

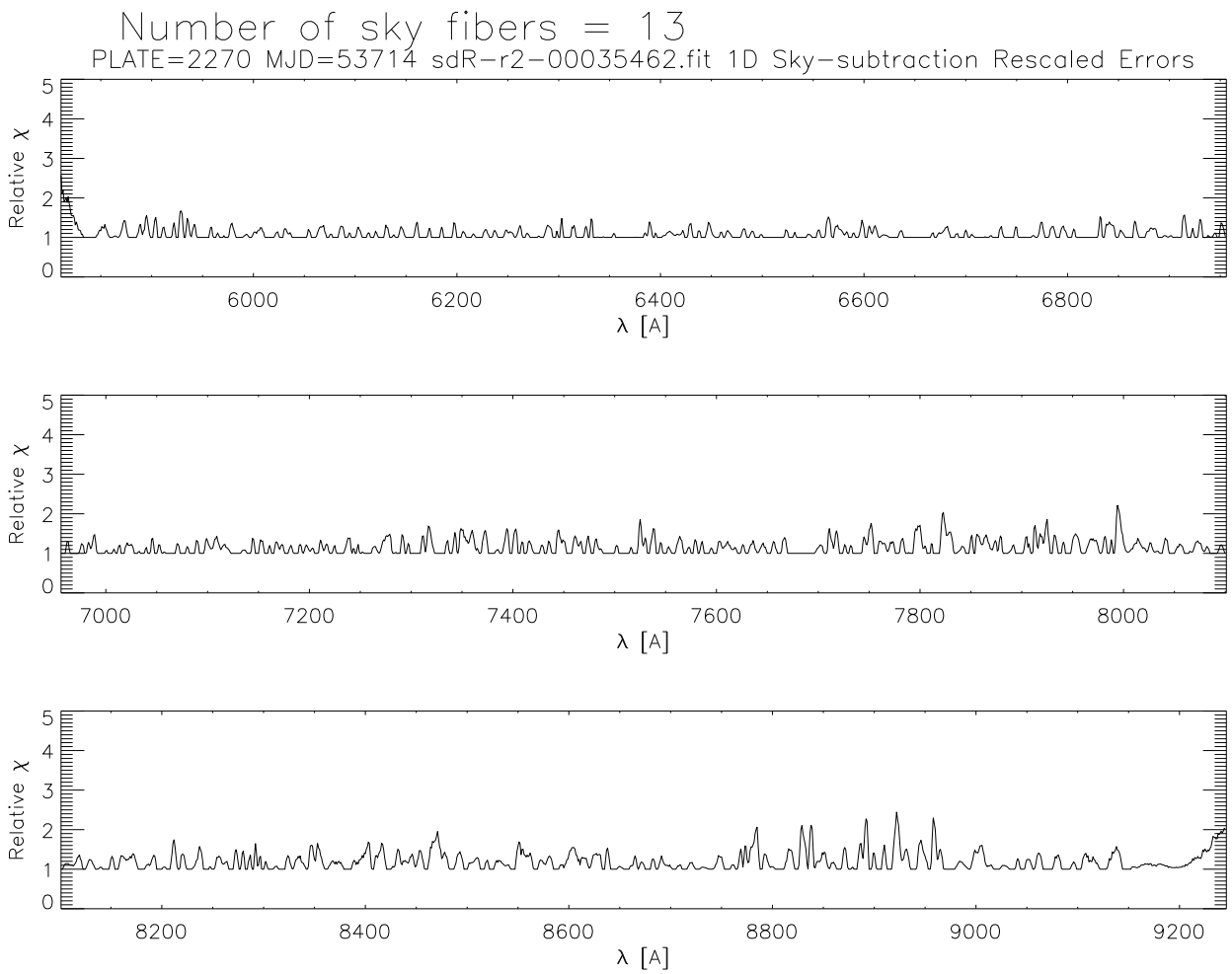

−0.40
−0.45
−0.50
−0.55
sky shift, pixels
5000
6000
7000
8000
9000
10000

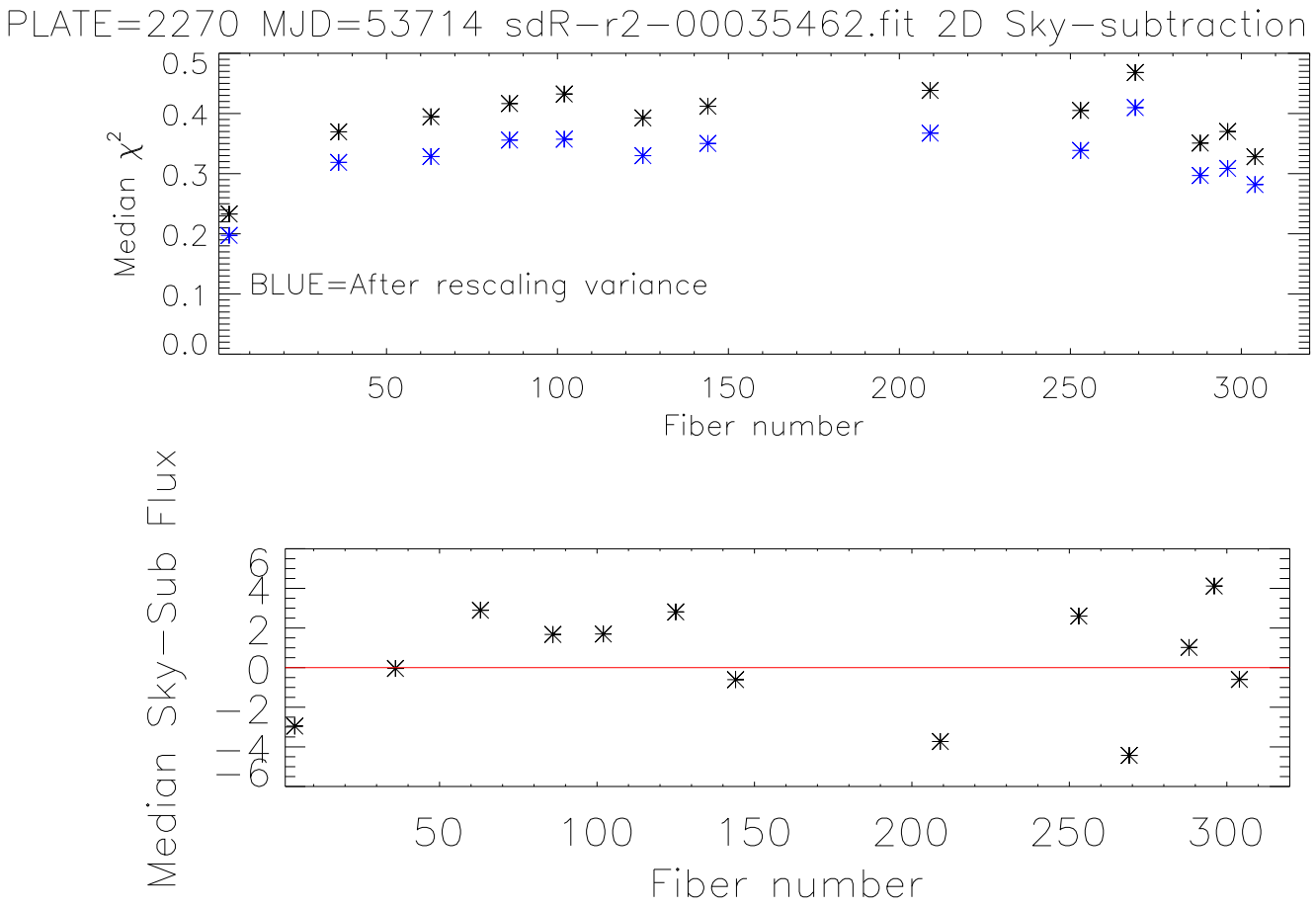

PLATE=2270 MJD=53714 Smooth superflat for sdR-r2-00035462.fit
2.0
1.5
1.0
0.5
0.0
1.015
1.010
1.005
1.000
0.995
0.990
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

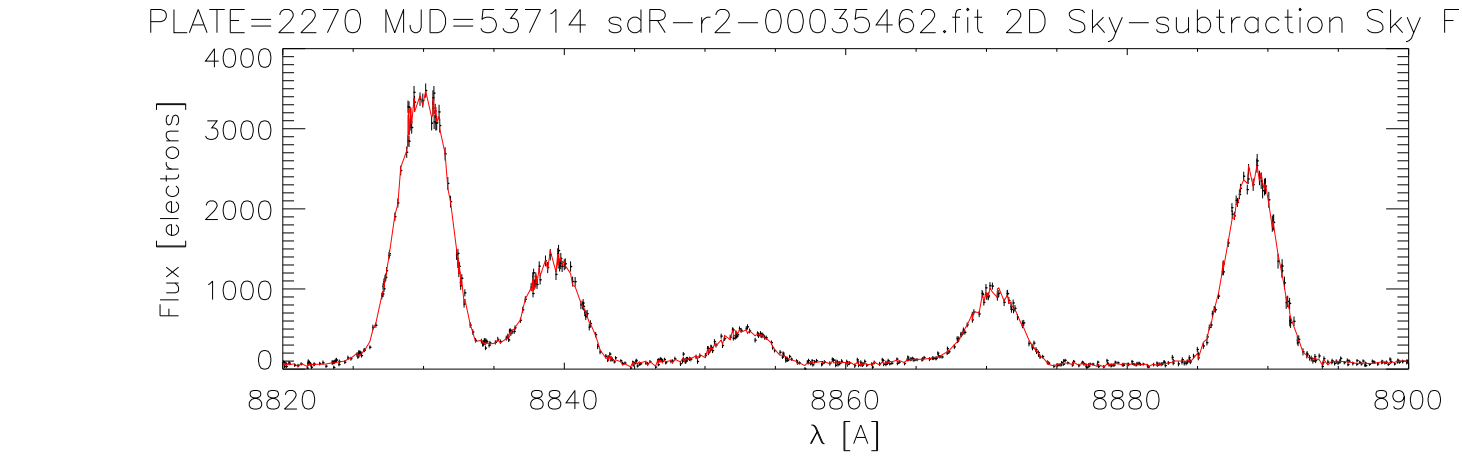

PLATE=2270 MJD=53714 sdR-r2-00035462.fit 1D Sky-subtraction Sky Fibers
Median χ^2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
-20
50
100
150
200
250
300
Fiber number

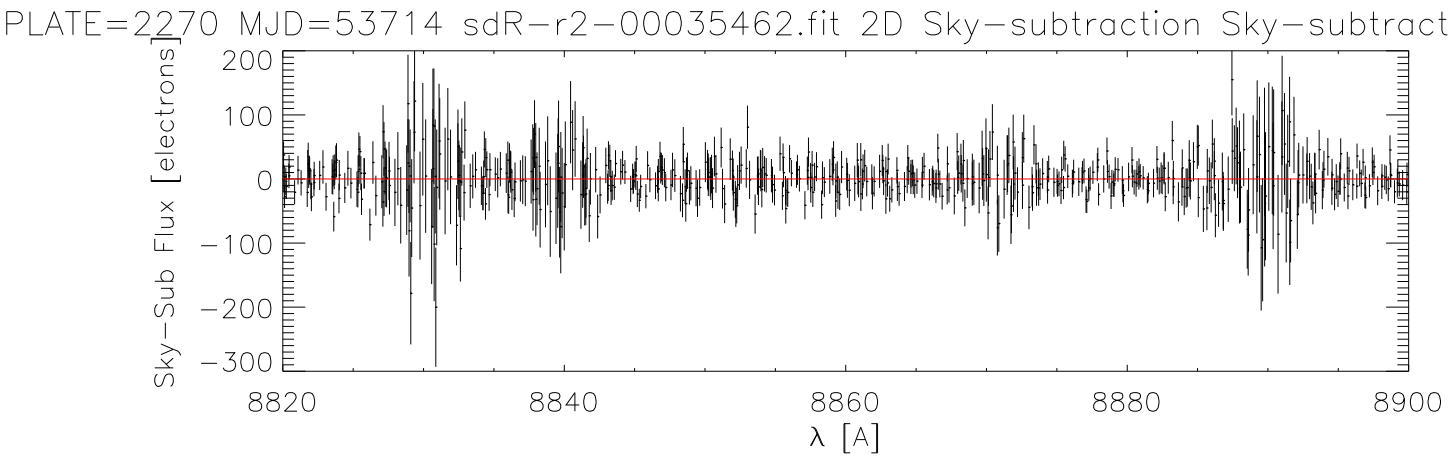

PLATE=2270 MJD=53714 sdR-r2-00035462.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

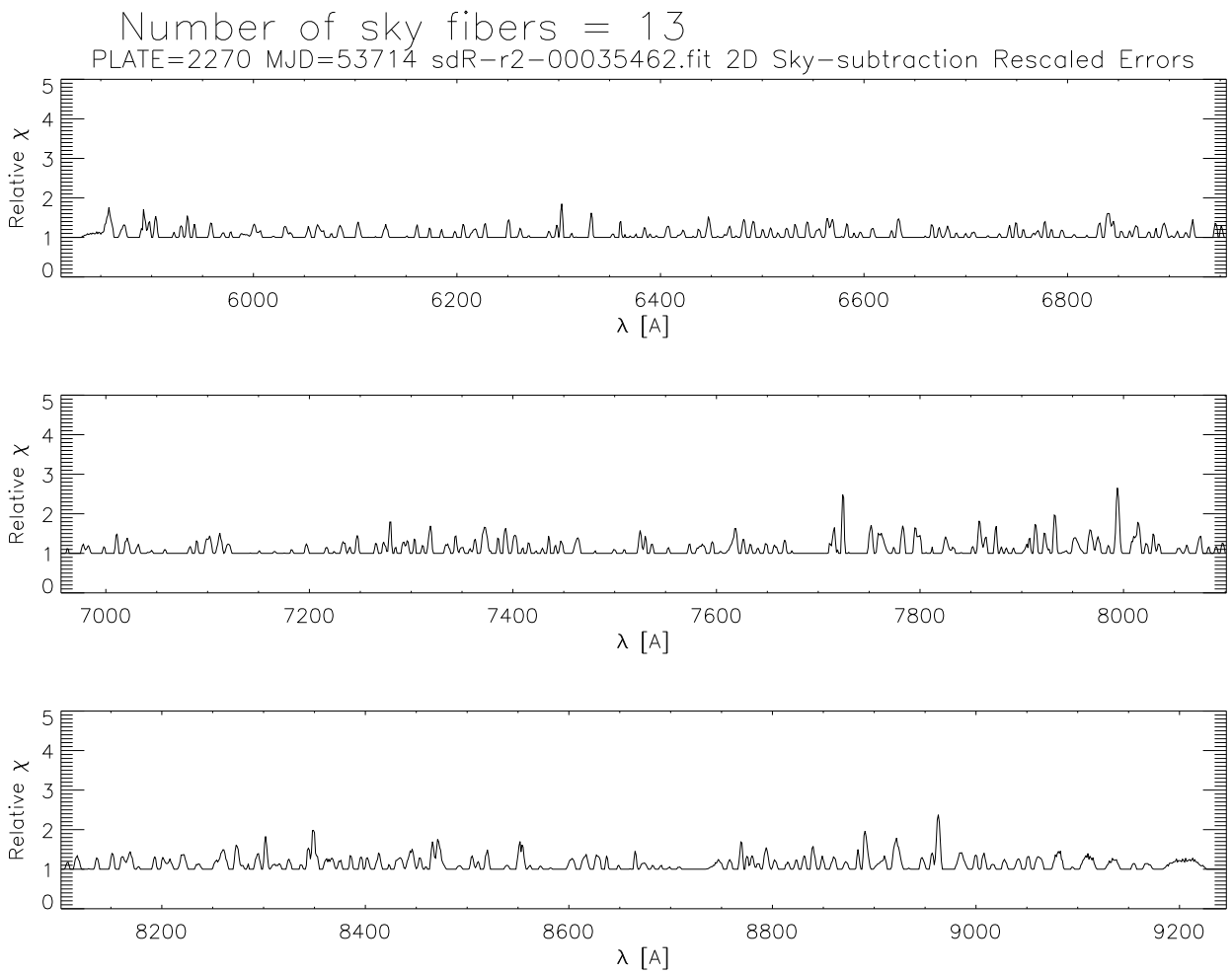

PLATE=2270 MJD=53714 sdR-r2-00035462.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

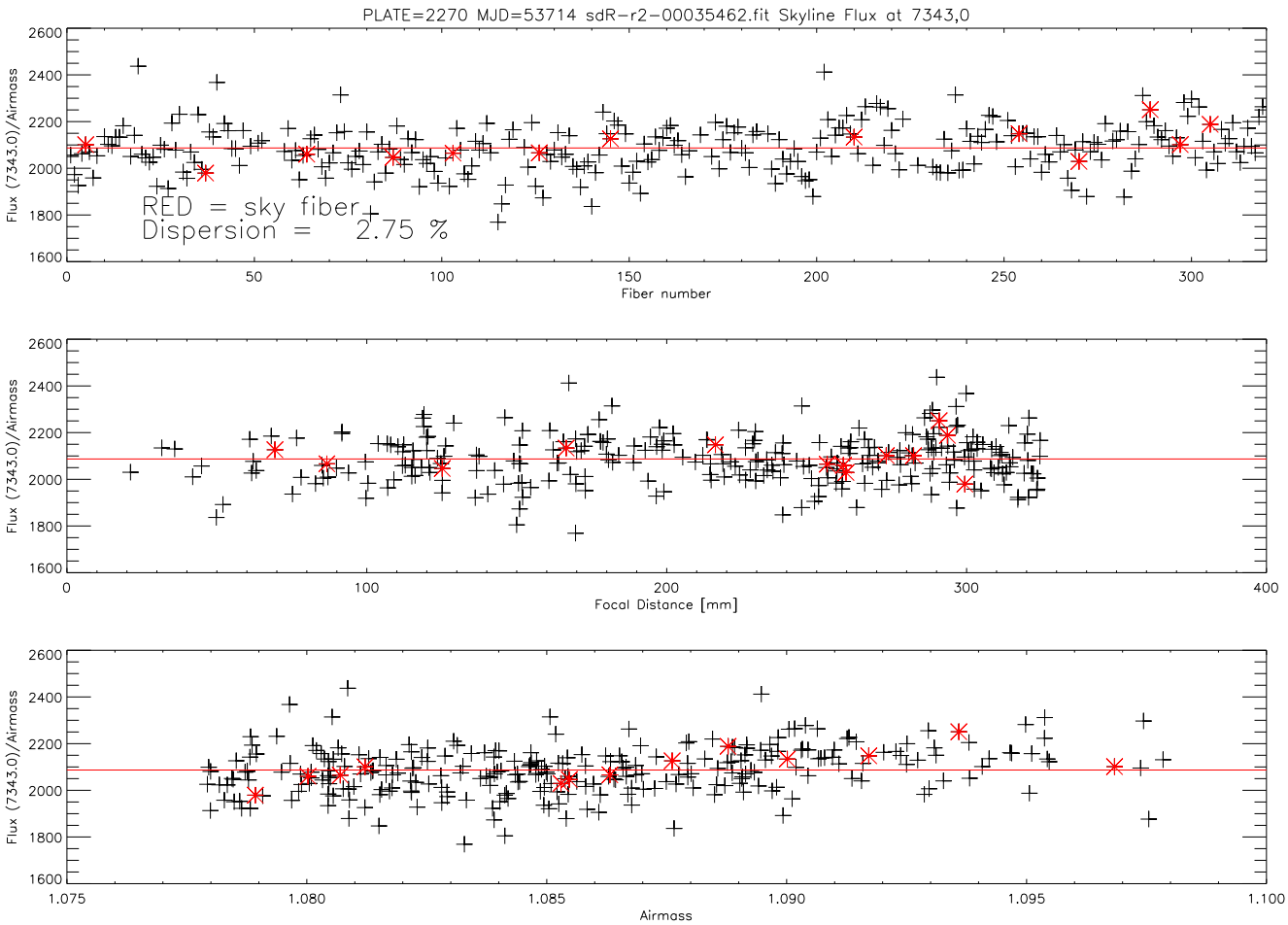

Number of sky fibers = 13
PLATE=2270 MJD=53714 sdR-r2-00035462.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

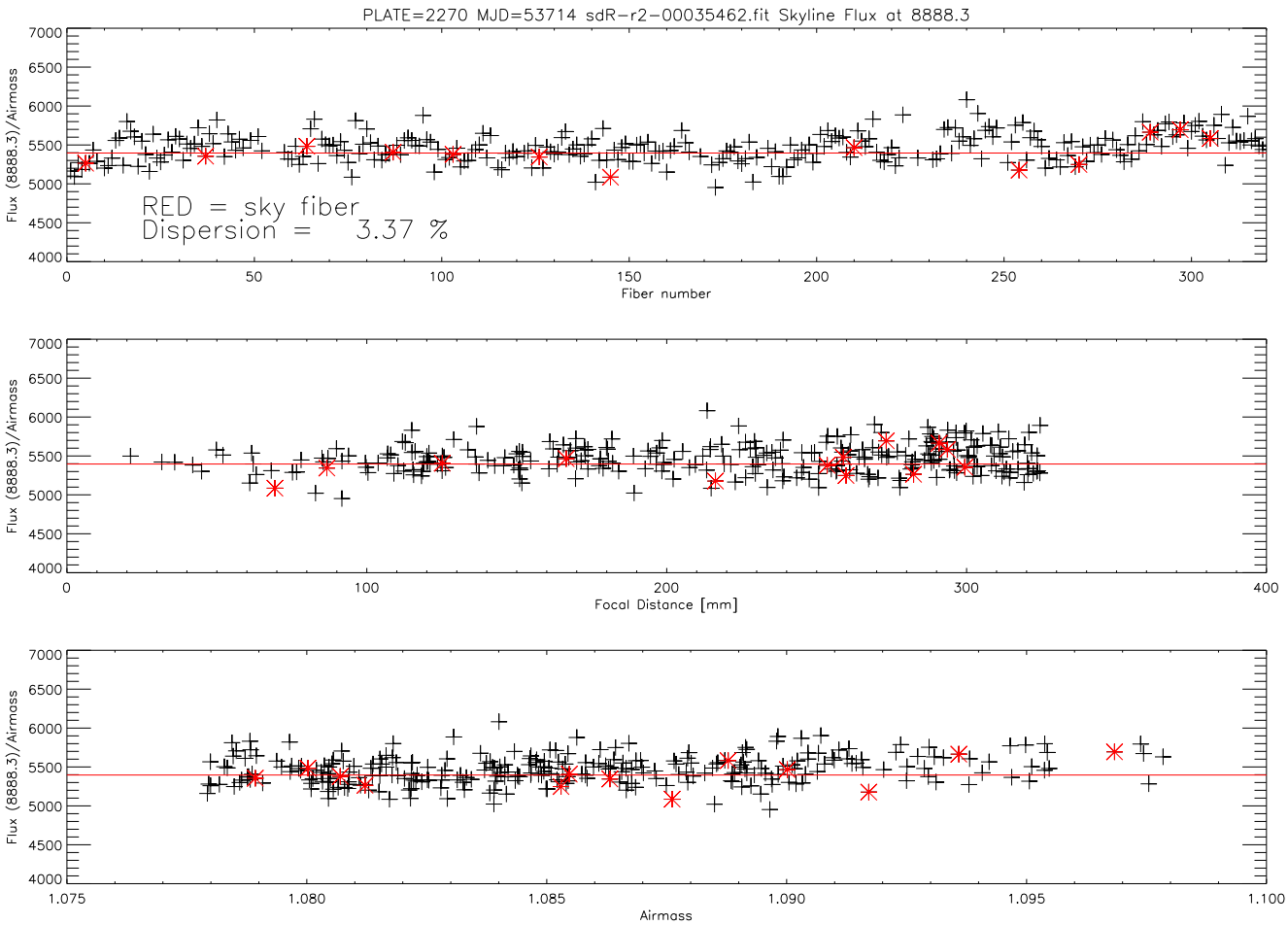

PLATE=2270 MJD=53714 sdR-r2-00035462.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

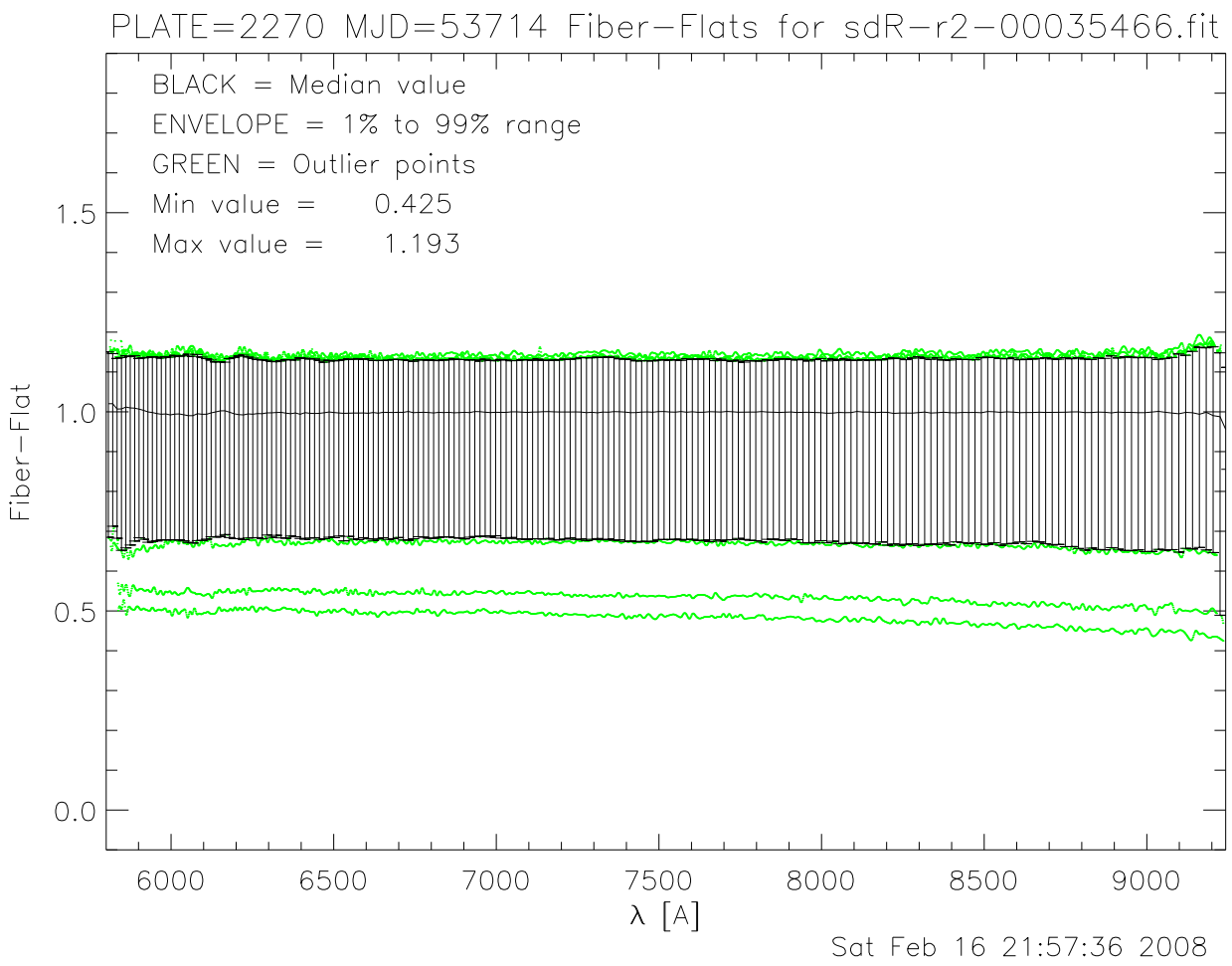

PLATE=2270 MJD=53714 sdR-r2-00035462.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

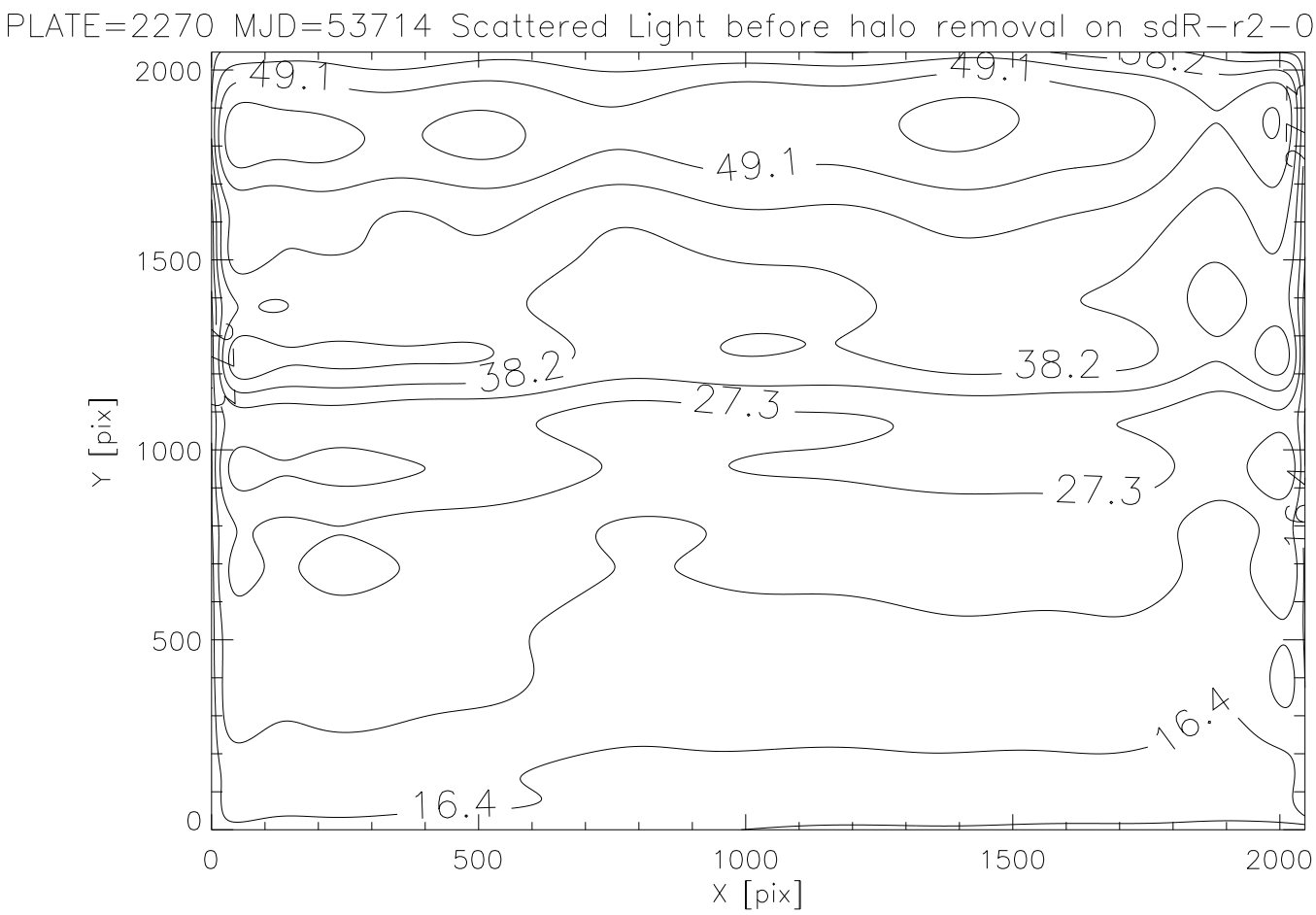

PLATE=2270 MJD=53714 sdR-r2-00035462.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

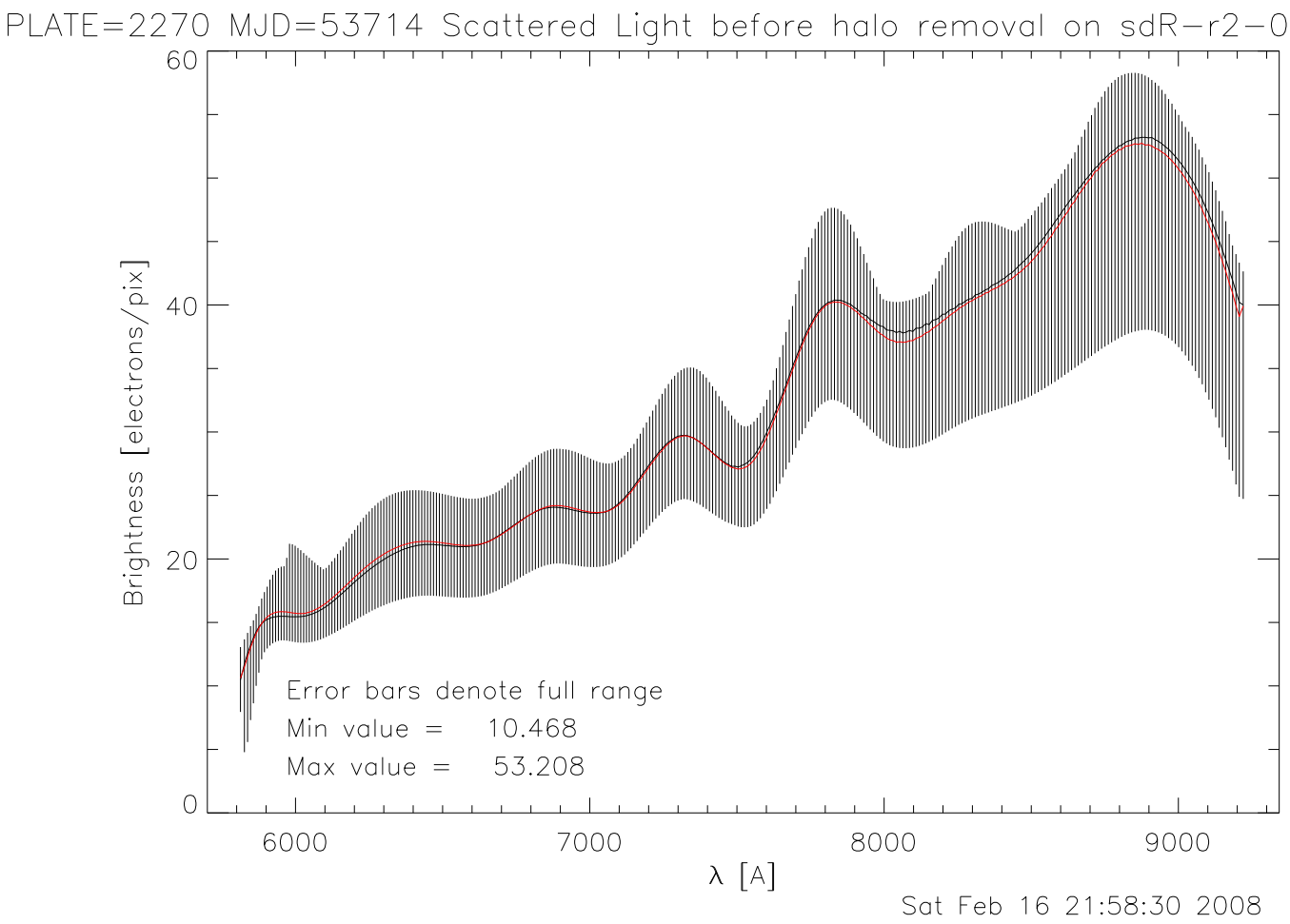

Number of sky fibers = 13
PLATE=2270 MJD=53714 sdR-r2-00035462.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

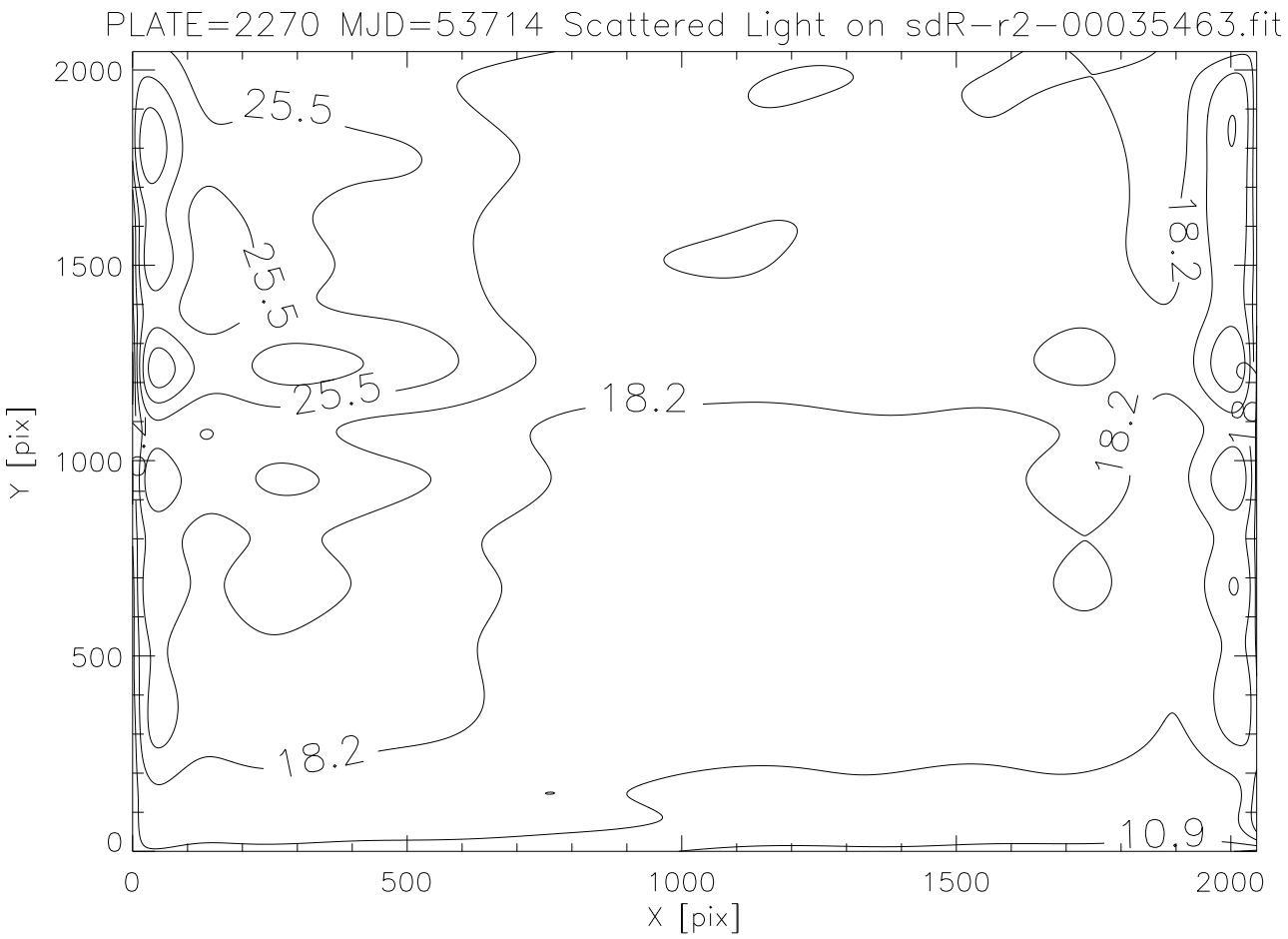

PLATE=2270 MJD=53714 sdR-r2-00035462.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.75 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

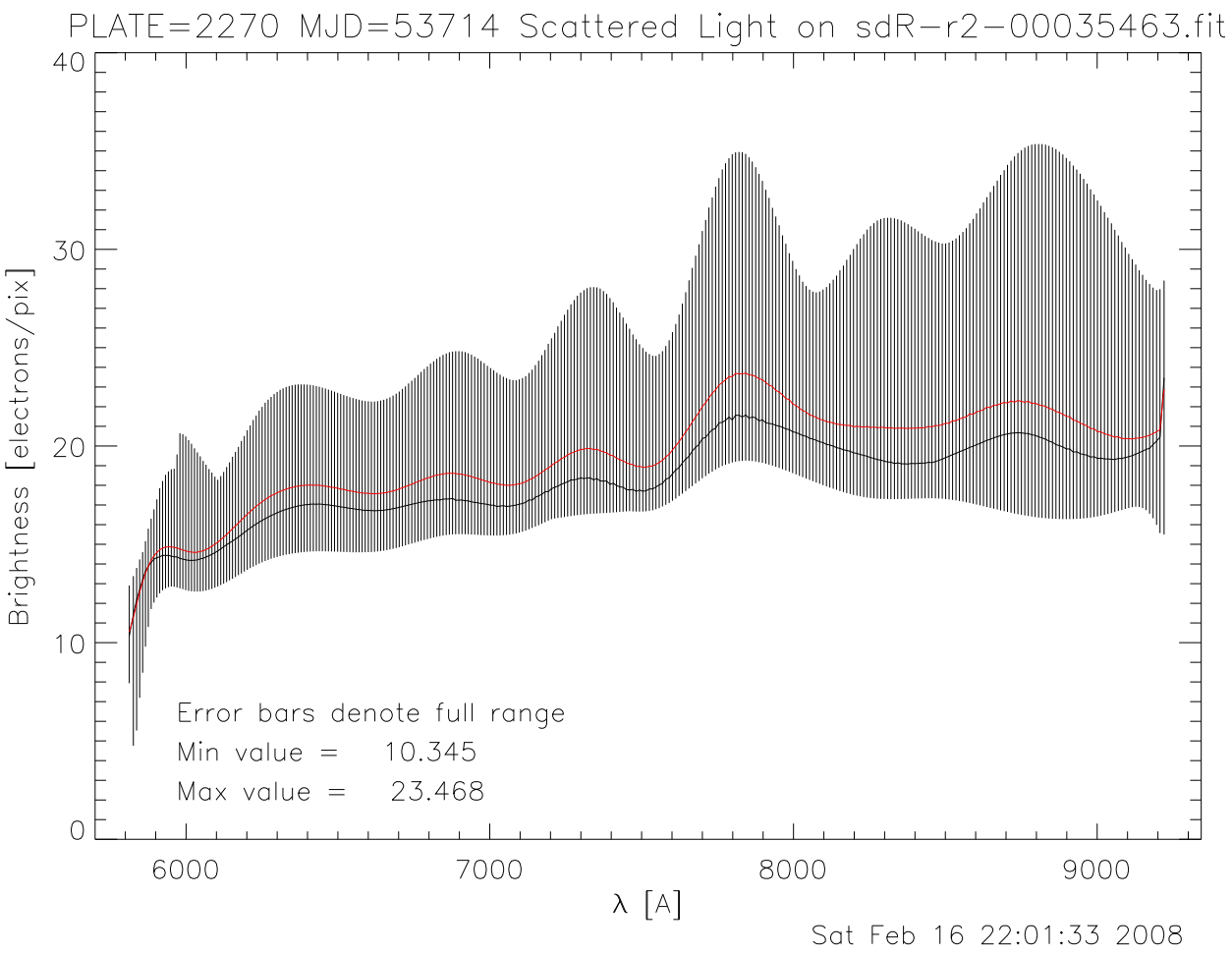

PLATE=2270 MJD=53714 sdR-r2-00035462.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.37 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

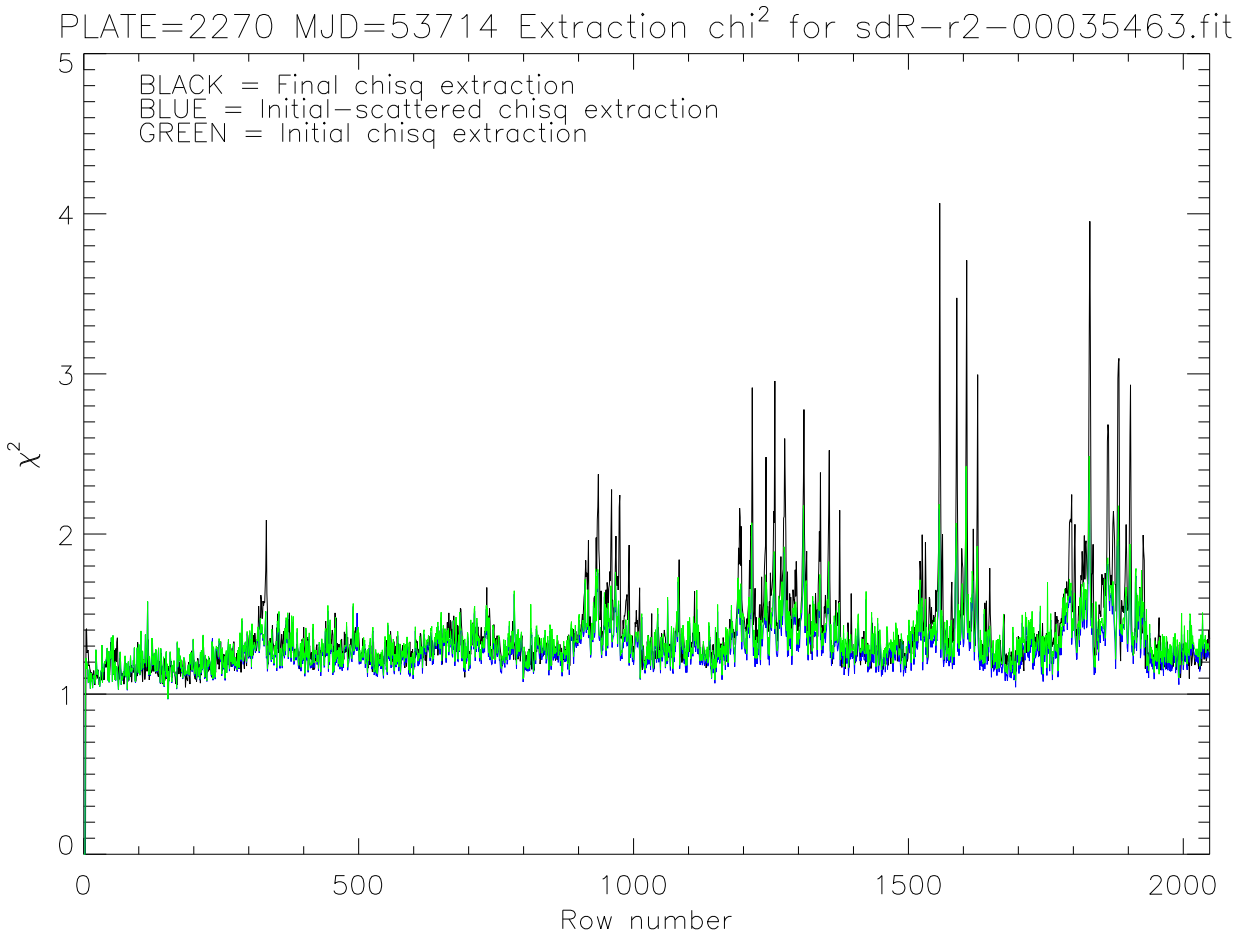

PLATE=2270 MJD=53714 Fiber-Flats for sdR-r2-00035466.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.425
Max value = 1.193
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sat Feb 16 21:57:36 2008

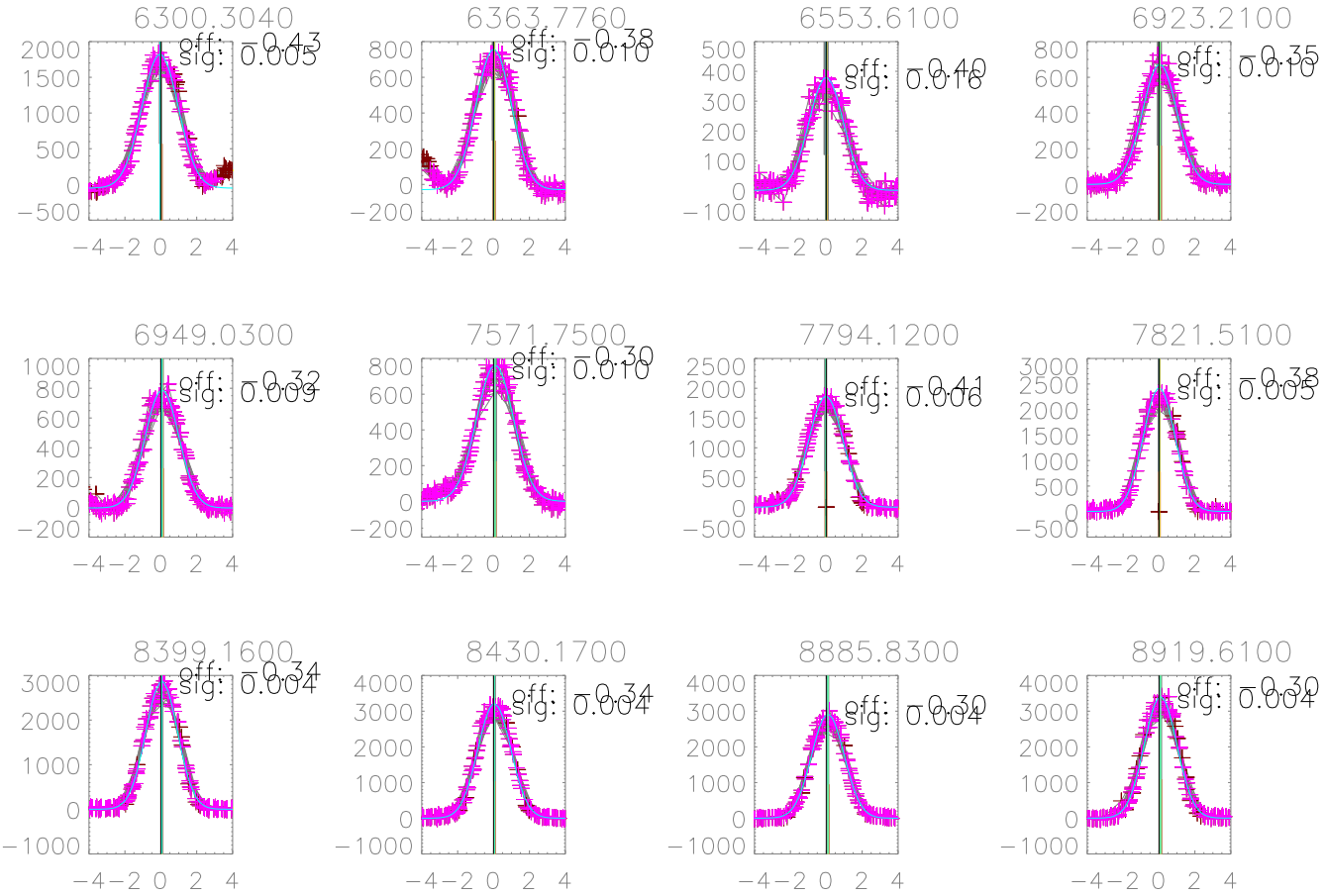

PLATE=2270 MJD=53714 Scattered Light before halo removal on sdR-r2-00035463.fi
49.1
49.1
49.1
38.2
38.2
27.3
27.3
16.4
16.4
Y [pix]
X [pix]
0
500
1000
1500
2000

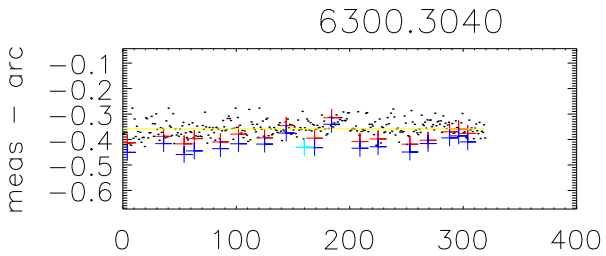

PLATE=2270 MJD=53714 Scattered Light before halo removal on sdR-r2-00035463.fi
Brightness [electrons/pix]
60
40
20
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 10.468
Max value = 53.208
Sat Feb 16 21:58:30 2008

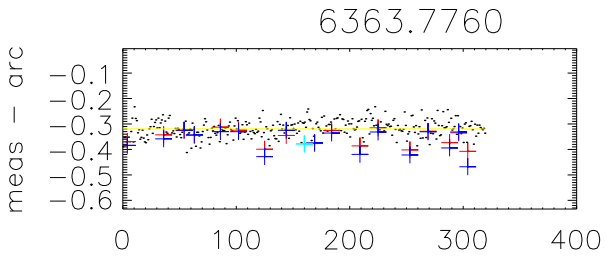

PLATE=2270 MJD=53714 Scattered Light on sdR-r2-00035463.fit
25.5
25.5
25.5
18.2
18.2
18.2
18.2
10.9
0
0
0
Y [pix]
X [pix]
0
500
1000
1500
2000

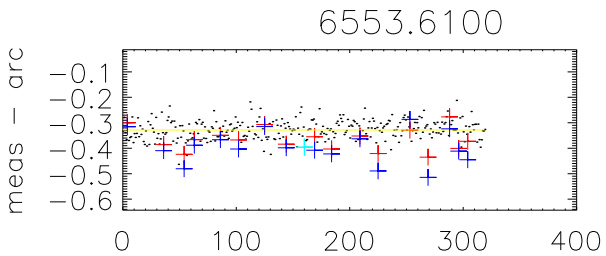

PLATE=2270 MJD=53714 Scattered Light on sdR-r2-00035463.fit
Brightness [electrons/pix]
40
30
20
10
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 10.345
Max value = 23.468
Sat Feb 16 22:01:33 2008

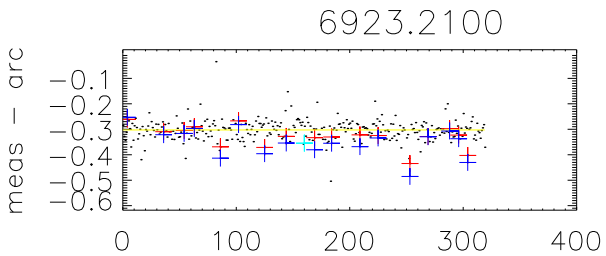

PLATE=2270 MJD=53714 Extraction chi^2 for sdR−r2−00035463.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

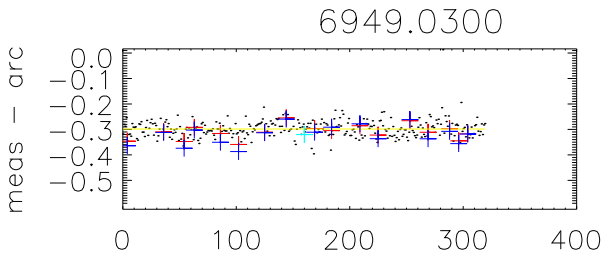

6300.3040
off: −0.43
sig: 0.005
6363.7760
off: −0.38
sig: 0.010
6553.6100
off: −0.40
sig: 0.016
6923.2100
off: −0.35
sig: 0.010
6949.0300
off: −0.32
sig: 0.009
7571.7500
off: −0.30
sig: 0.010
7794.1200
off: −0.41
sig: 0.006
7821.5100
off: −0.38
sig: 0.005
8399.1600
off: −0.34
sig: 0.004
8430.1700
off: −0.34
sig: 0.004
8885.8300
off: −0.30
sig: 0.004
8919.6100
off: −0.30
sig: 0.004

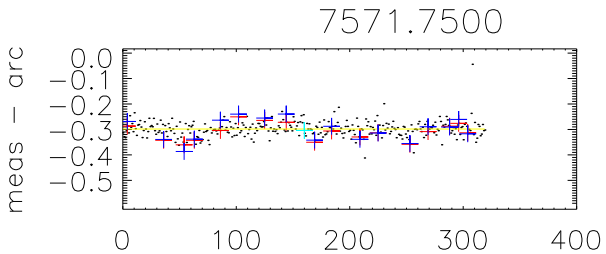

6300.3040
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

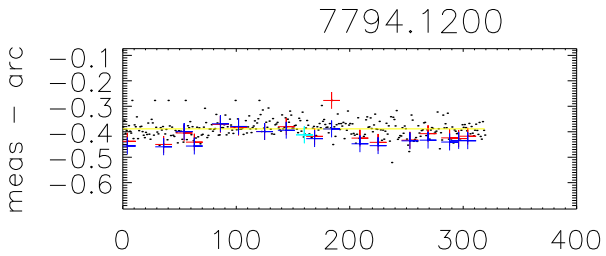

6363.7760
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

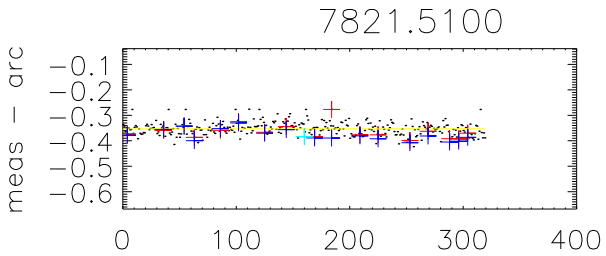

6553.6100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

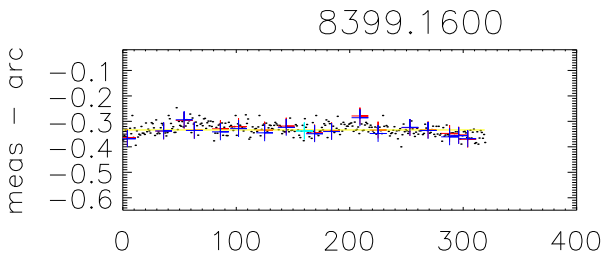

6923.2100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

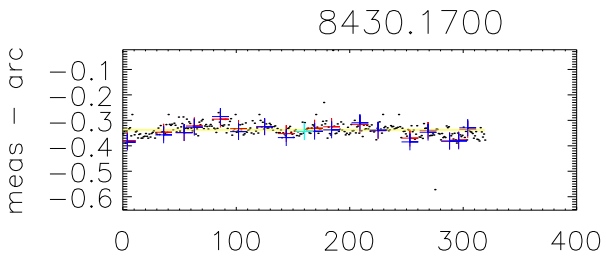

6949.0300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

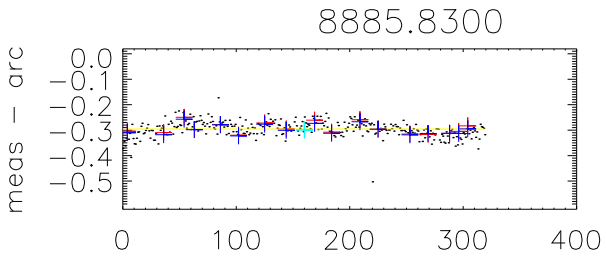

7571.7500
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

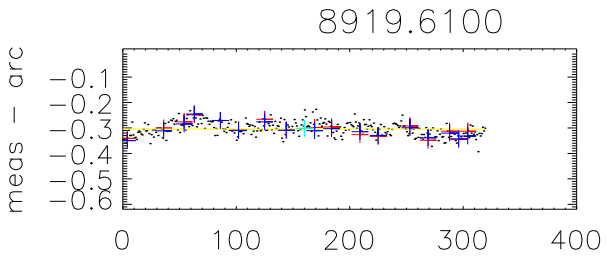

7794.1200
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

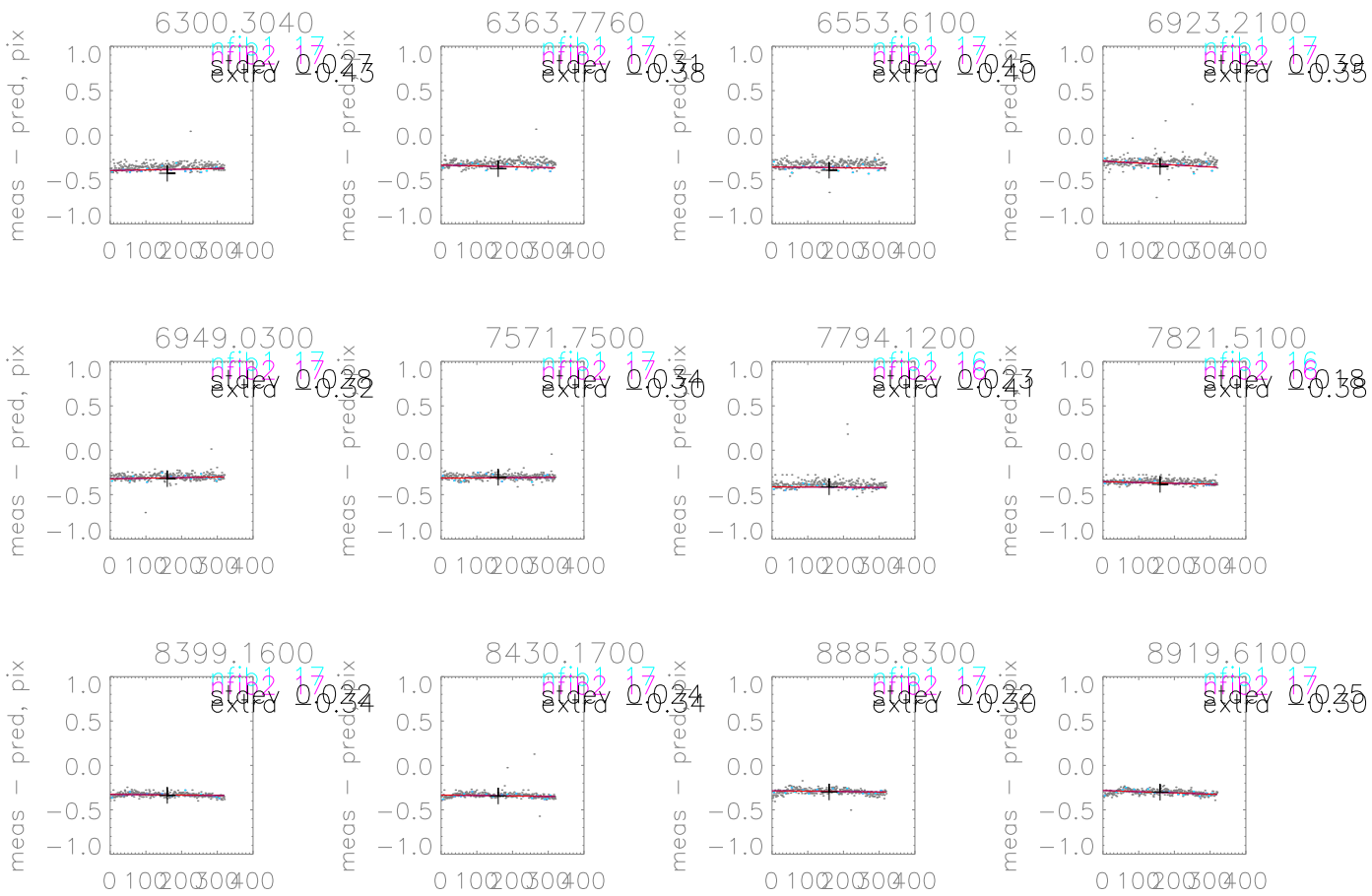

7821.5100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

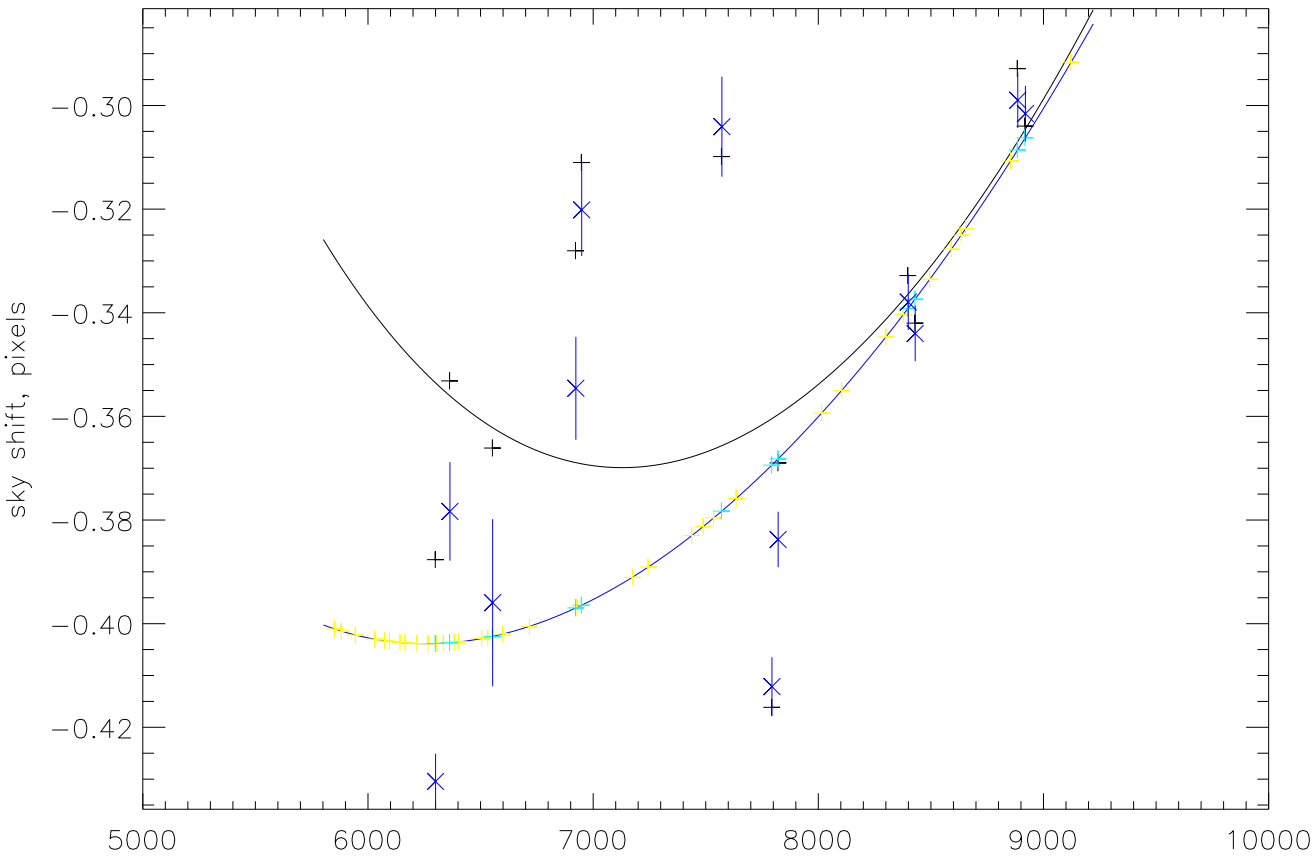

8399.1600
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

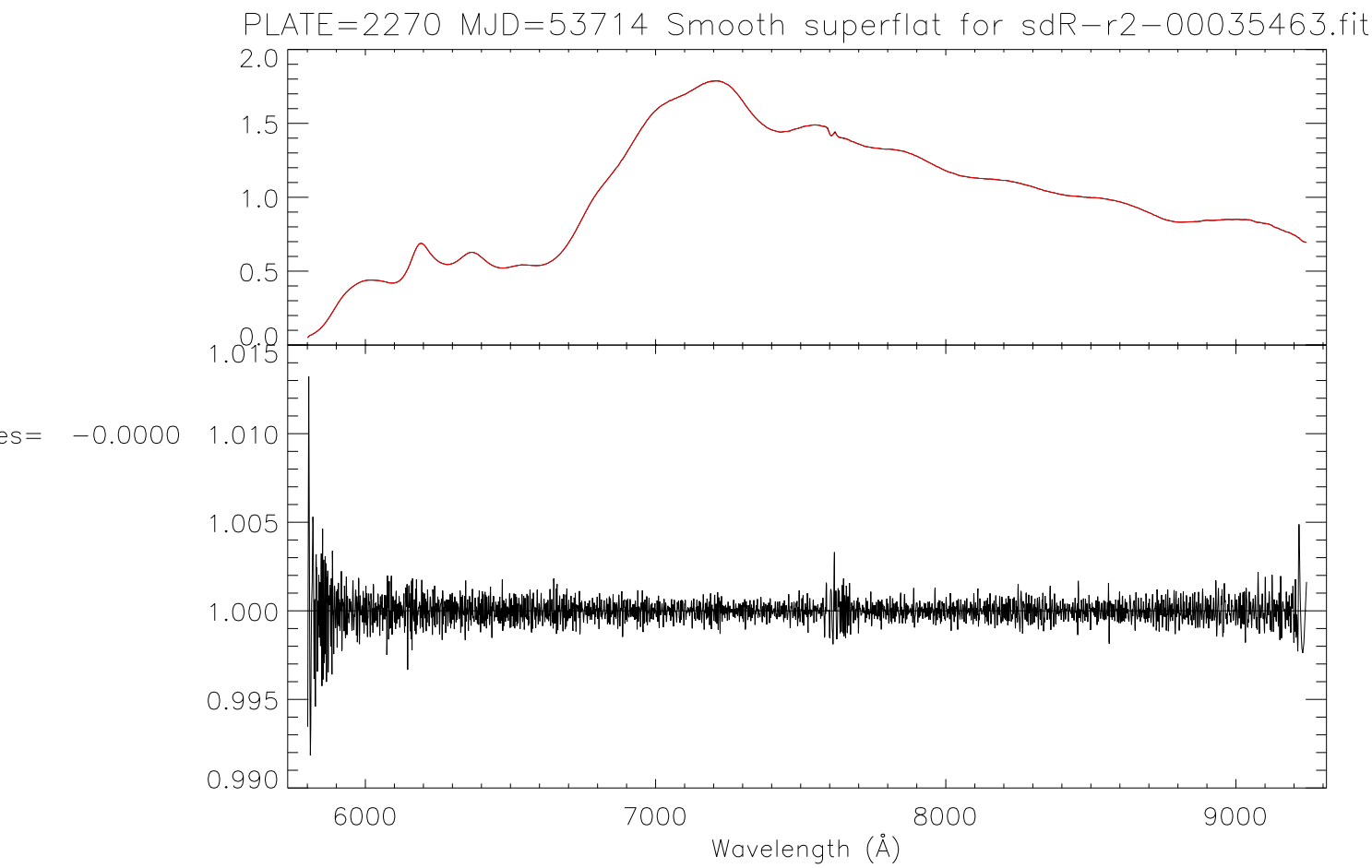

8430.1700
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

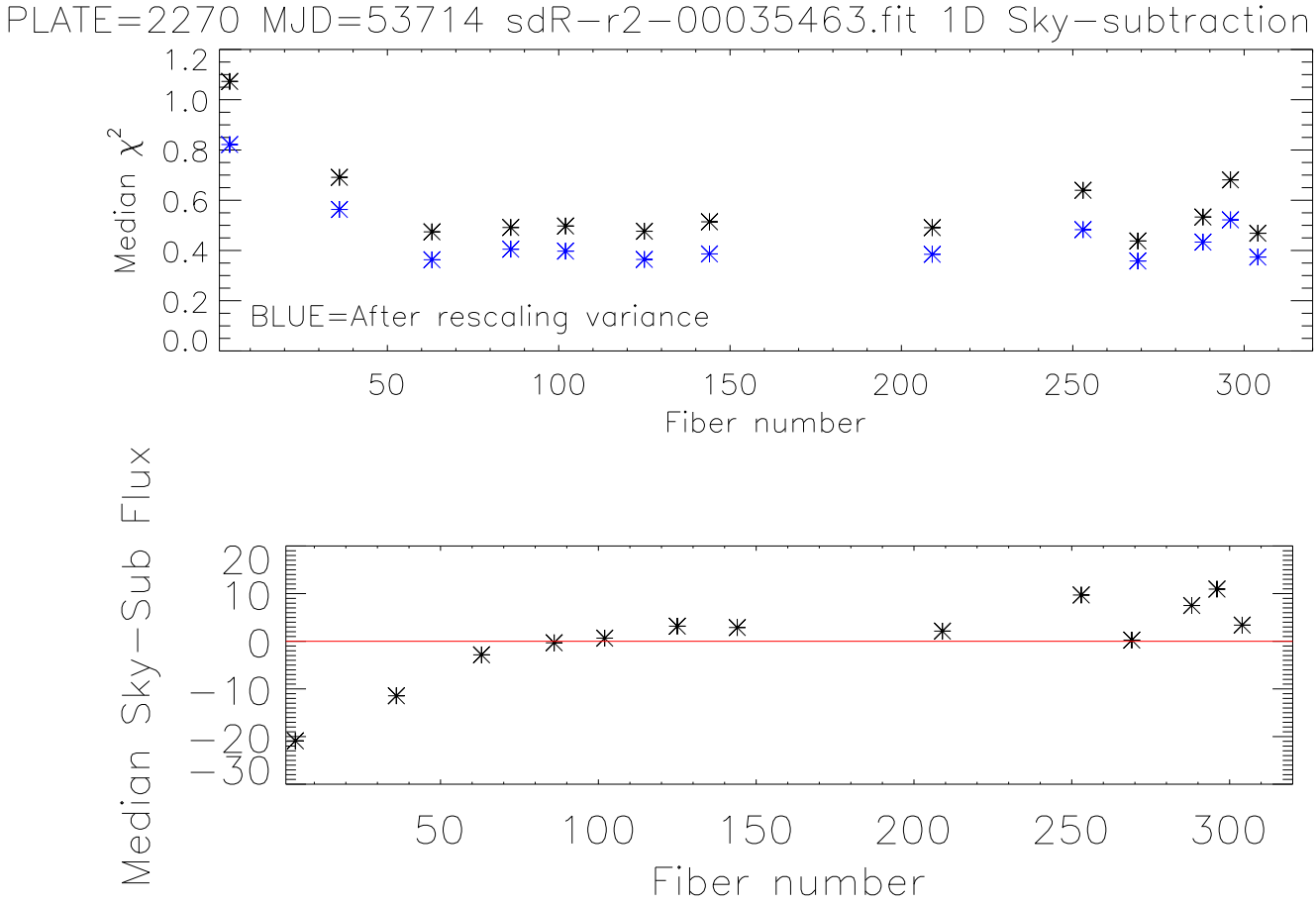

8885.8300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

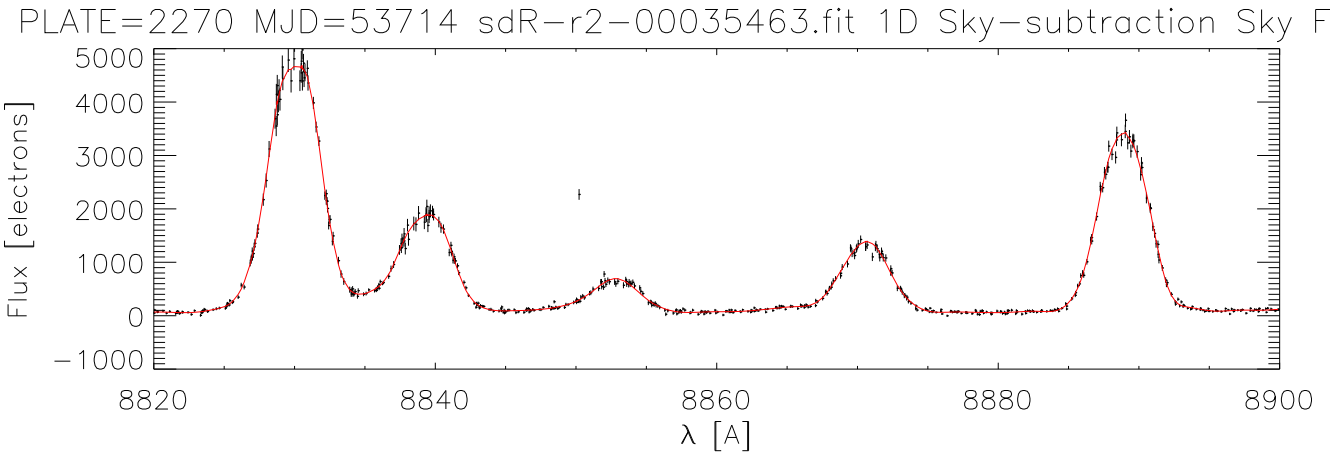

8919.6100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

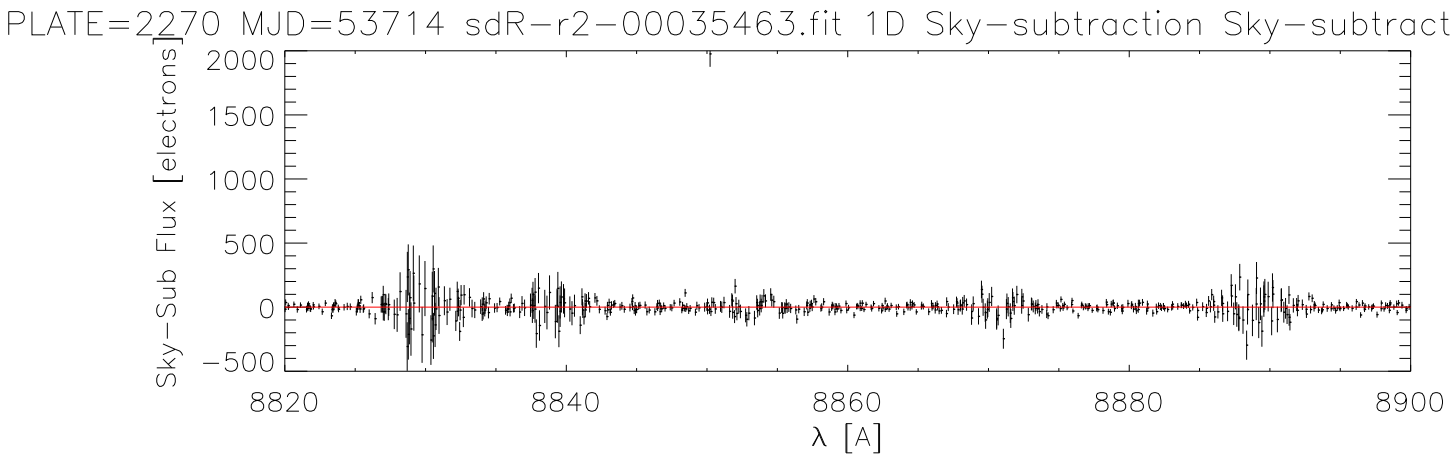

6300.3040
6363.7760
6553.6100
6923.2100
6949.0300
7571.7500
7794.1200
7821.5100
8399.1600
8430.1700
8885.8300
8919.6100
meas − pred, pix
mfib1 17
mfib2 17
mfib1 16
mfib2 16
stdev 0.27
extrd 0.43
stdev 0.31
extrd 0.38
stdev 0.45
extrd 0.40
stdev 0.39
extrd 0.35
stdev 0.28
extrd 0.32
stdev 0.34
extrd 0.30
stdev 0.23
extrd 0.41
stdev 0.18
extrd 0.38
stdev 0.22
extrd 0.34
stdev 0.24
extrd 0.34
stdev 0.22
extrd 0.30
stdev 0.25
extrd 0.30

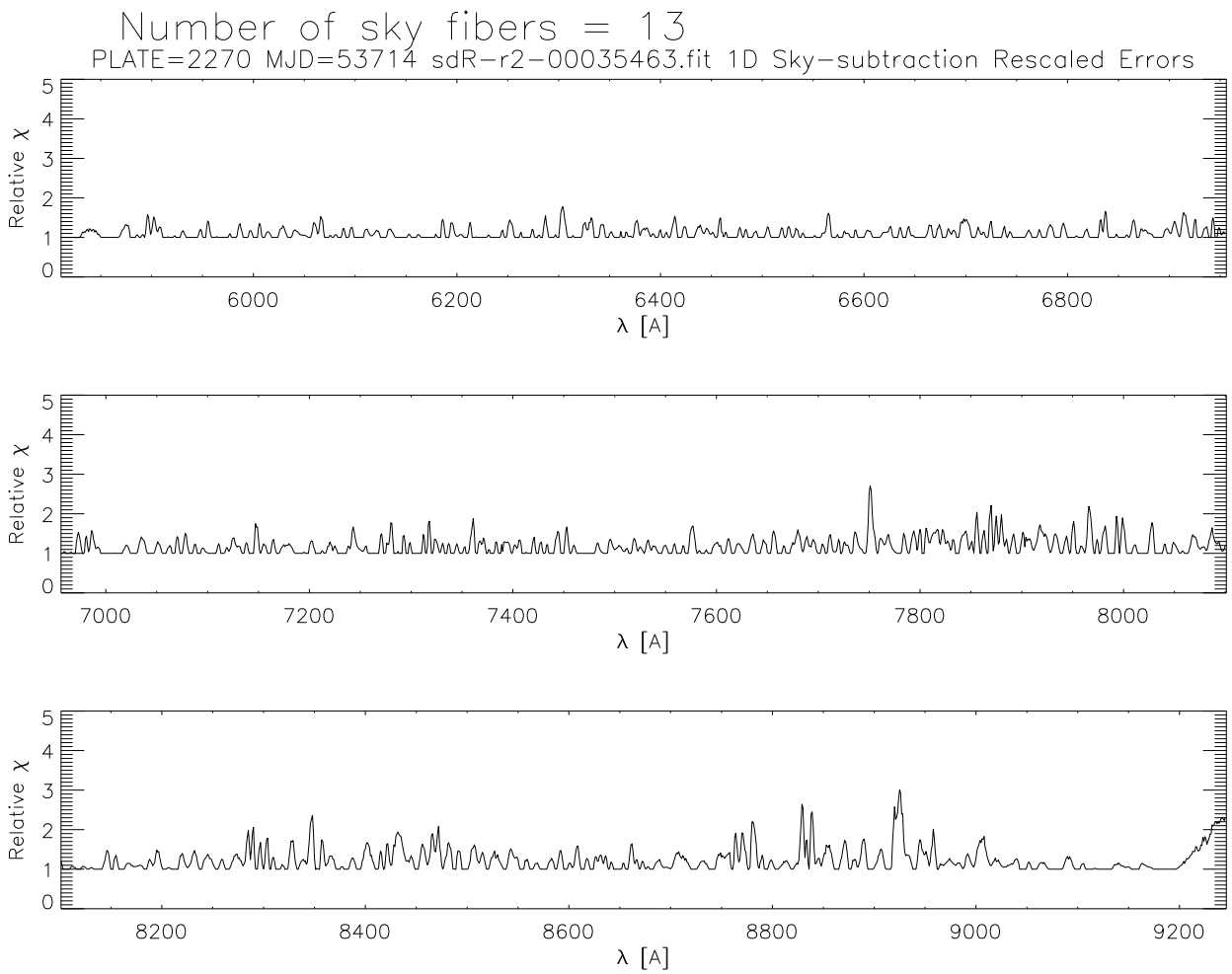

sky shift, pixels
−0.30
−0.32
−0.34
−0.36
−0.38
−0.40
−0.42
5000
6000
7000
8000
9000
10000

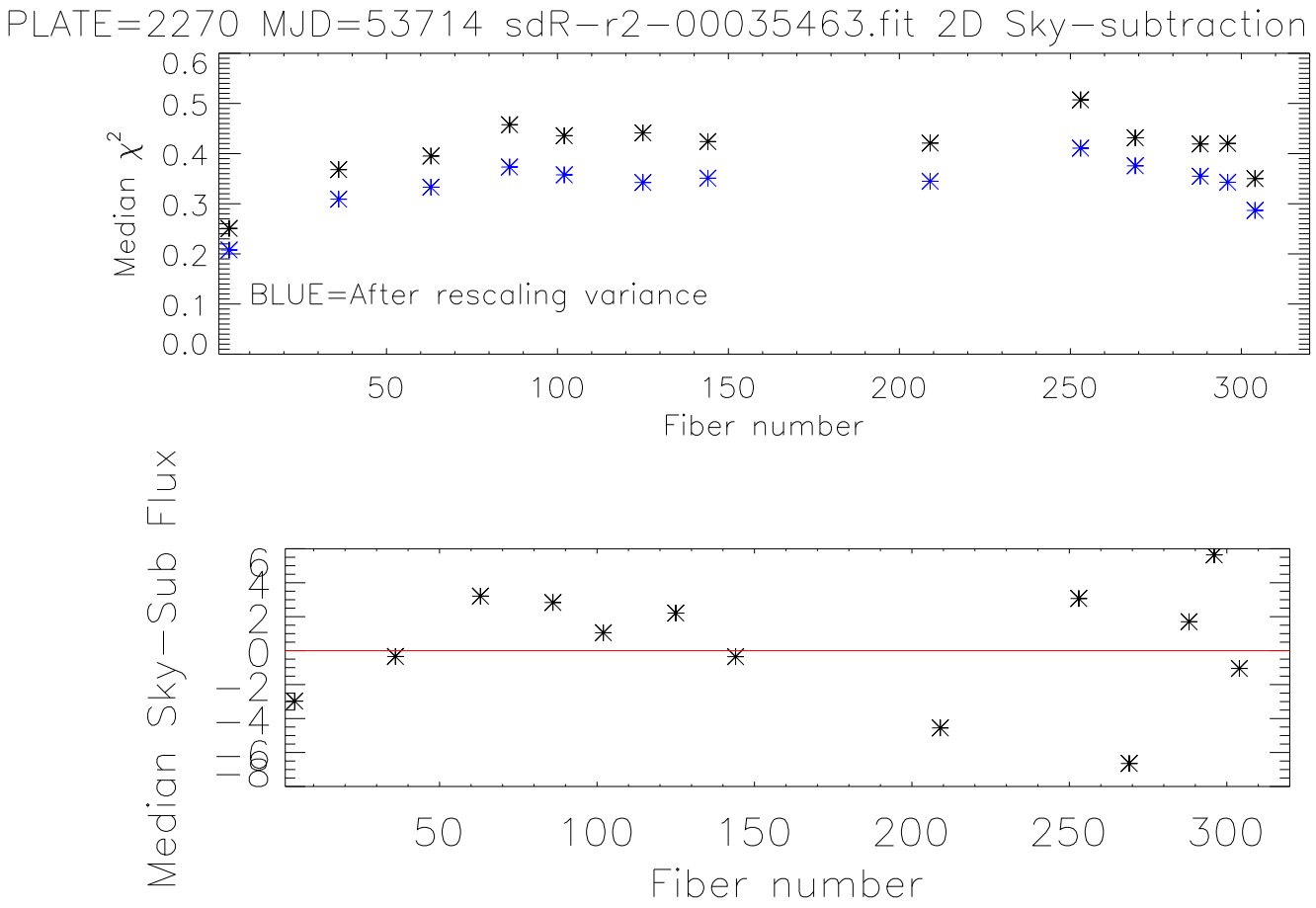

PLATE=2270 MJD=53714 Smooth superflat for sdR-r2-00035463.fit
2.0
1.5
1.0
0.5
0.0
1.015
1.010
1.005
1.000
0.995
0.990
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

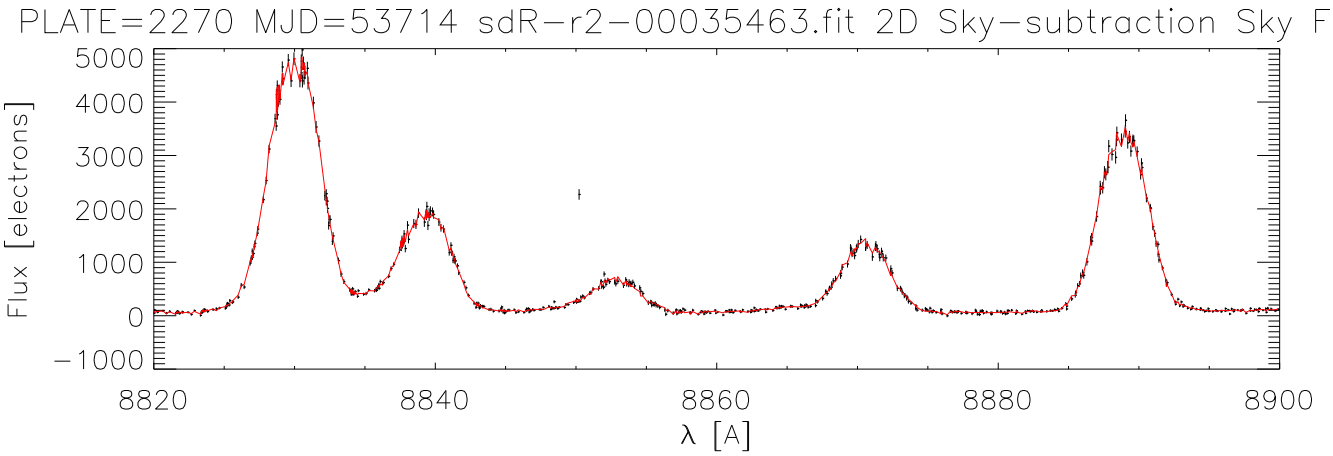

PLATE=2270 MJD=53714 sdR-r2-00035463.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

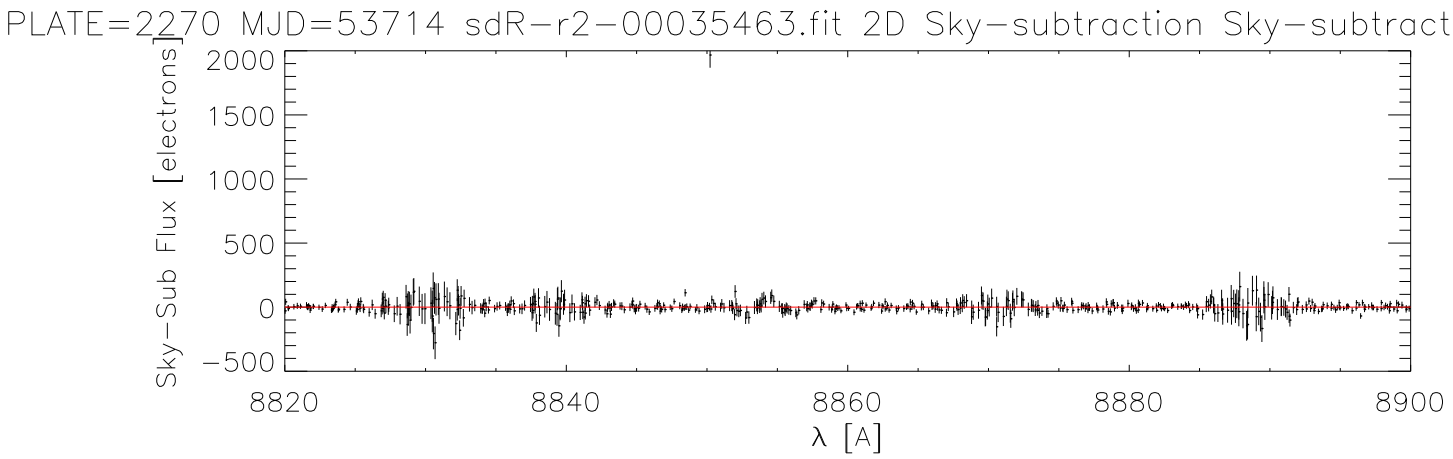

PLATE=2270 MJD=53714 sdR-r2-00035463.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

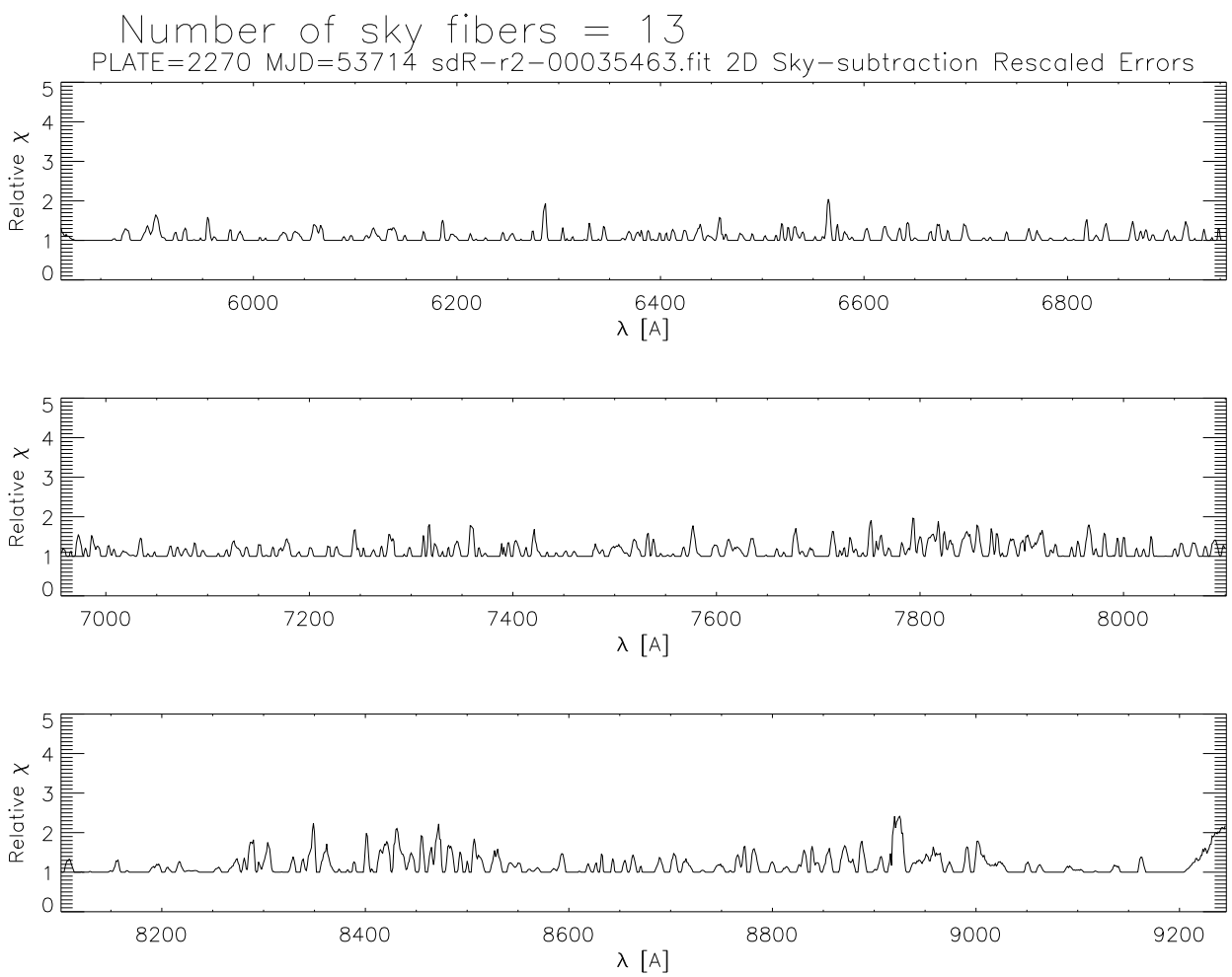

PLATE=2270 MJD=53714 sdR-r2-00035463.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

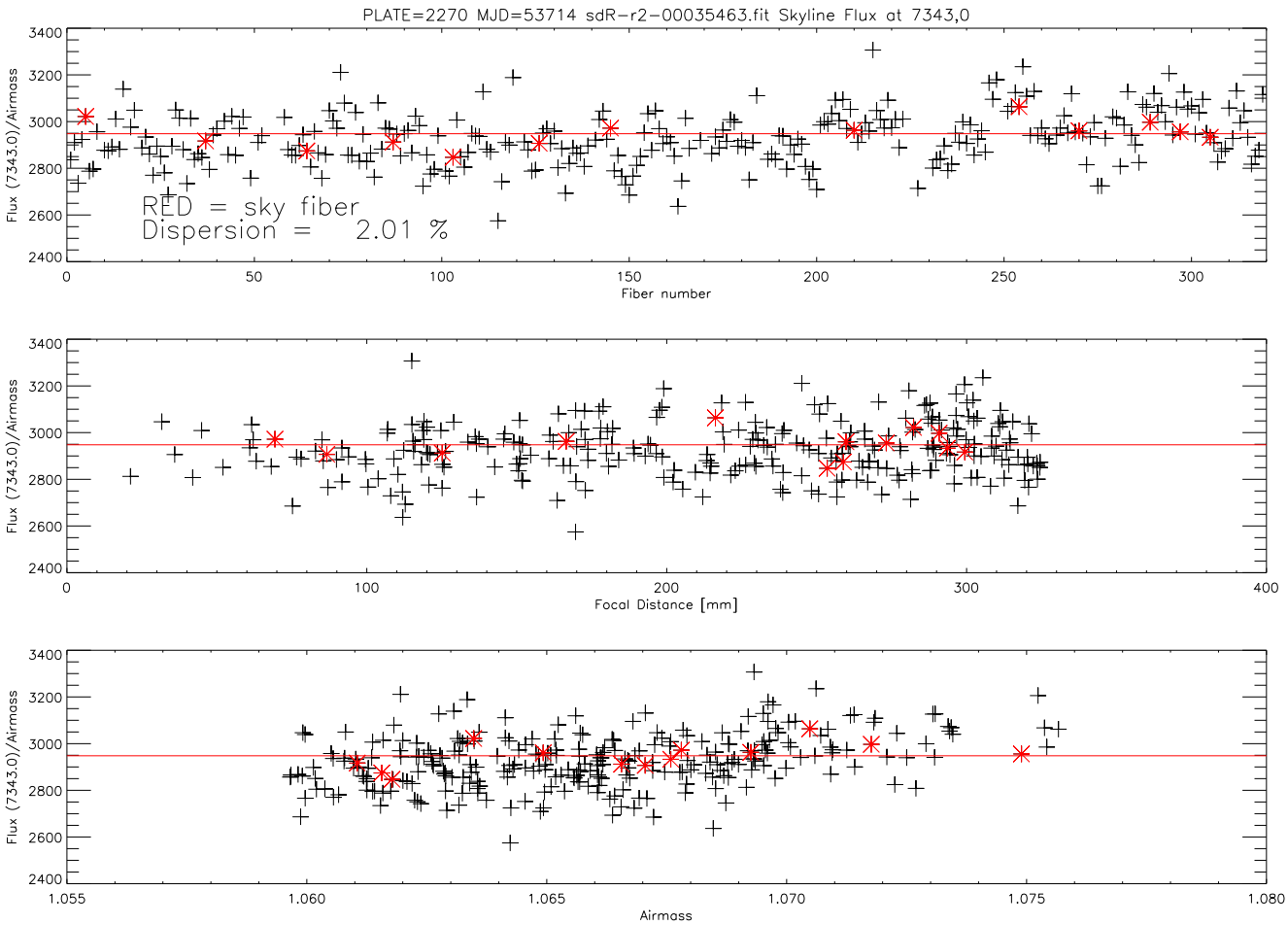

Number of sky fibers = 13
PLATE=2270 MJD=53714 sdR-r2-00035463.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

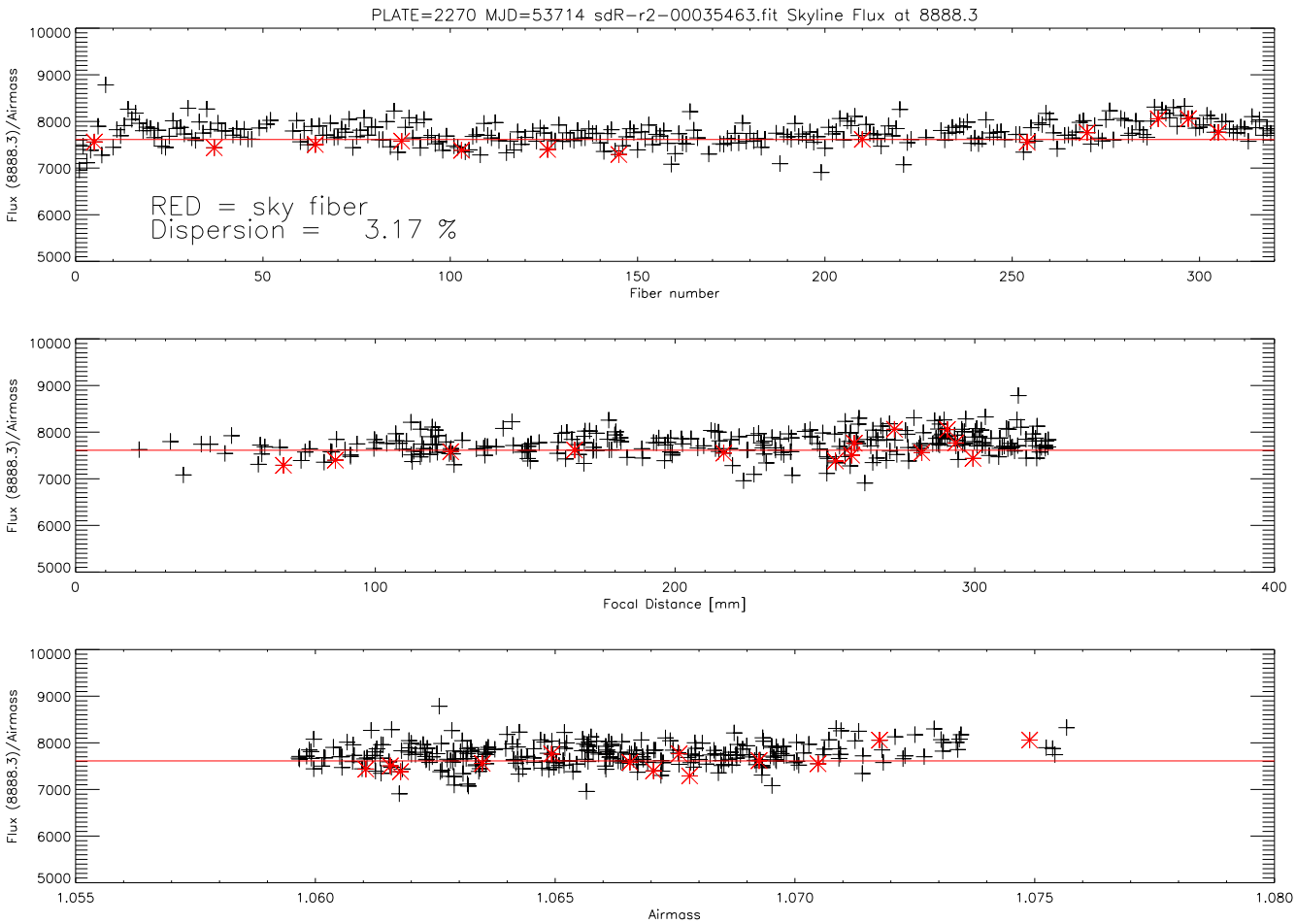

PLATE=2270 MJD=53714 sdR-r2-00035463.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-1.1
-1.0
-0.9
-0.8
-0.7
-0.6
50
100
150
200
250
300
Fiber number

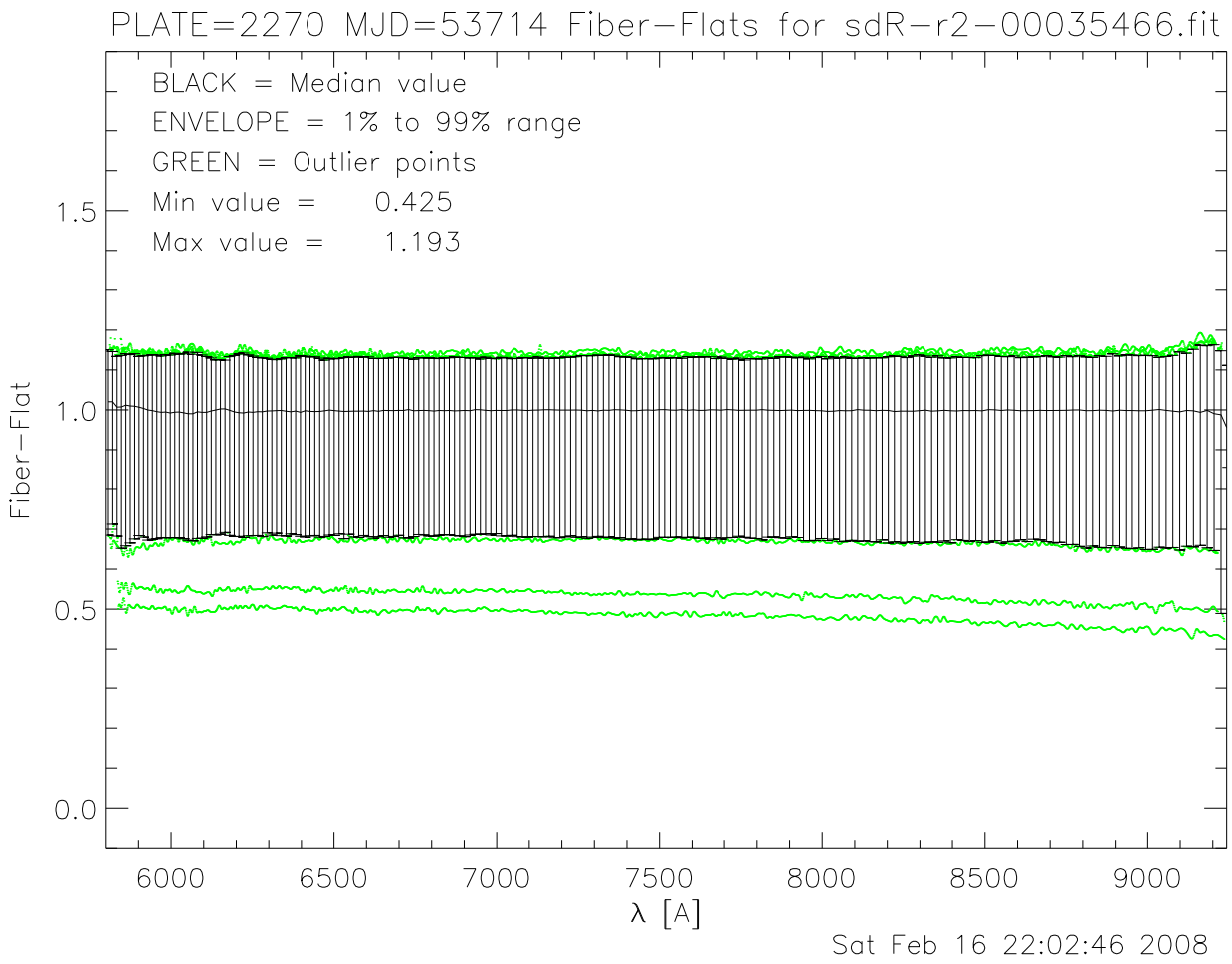

PLATE=2270 MJD=53714 sdR-r2-00035463.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

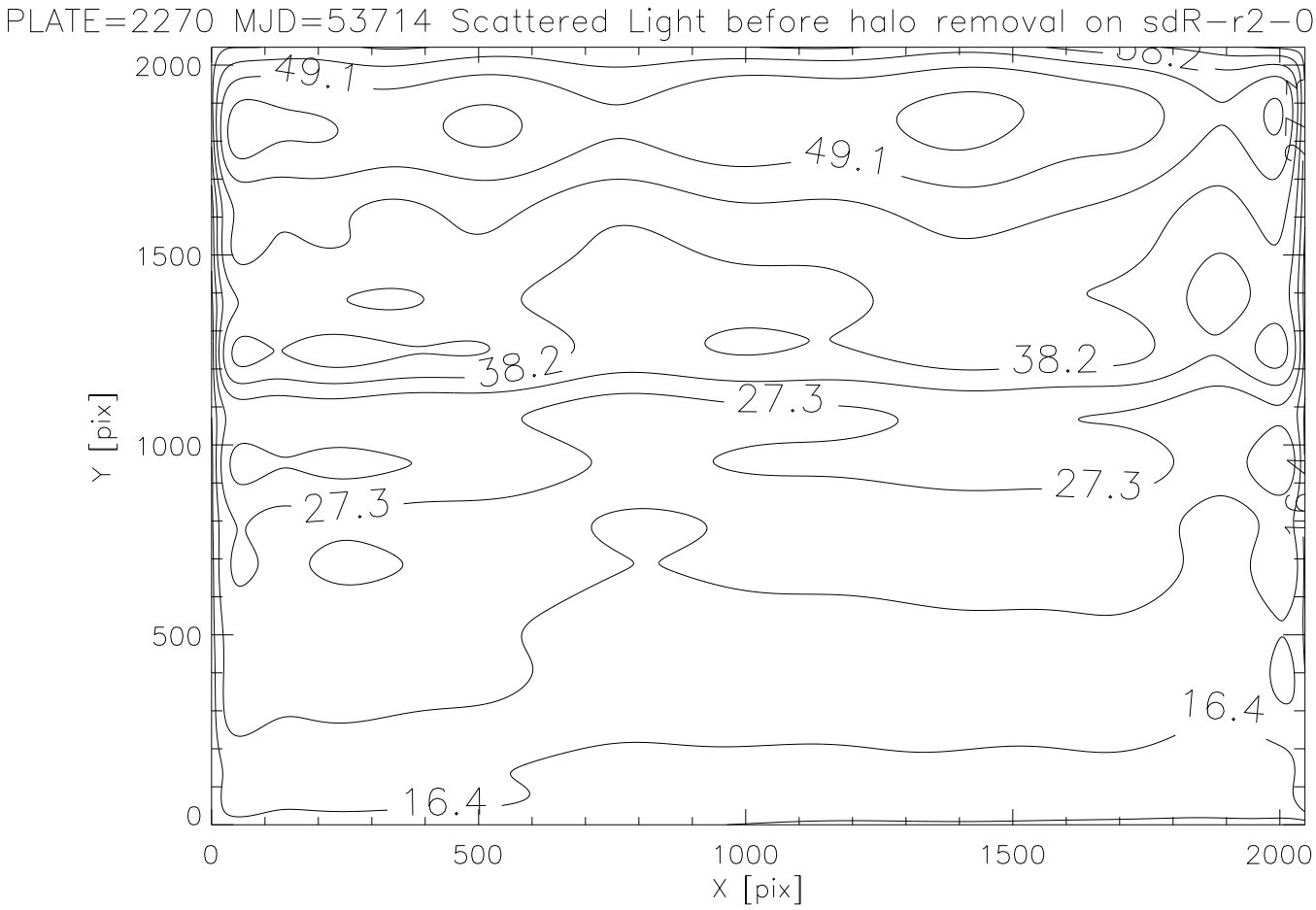

PLATE=2270 MJD=53714 sdR-r2-00035463.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

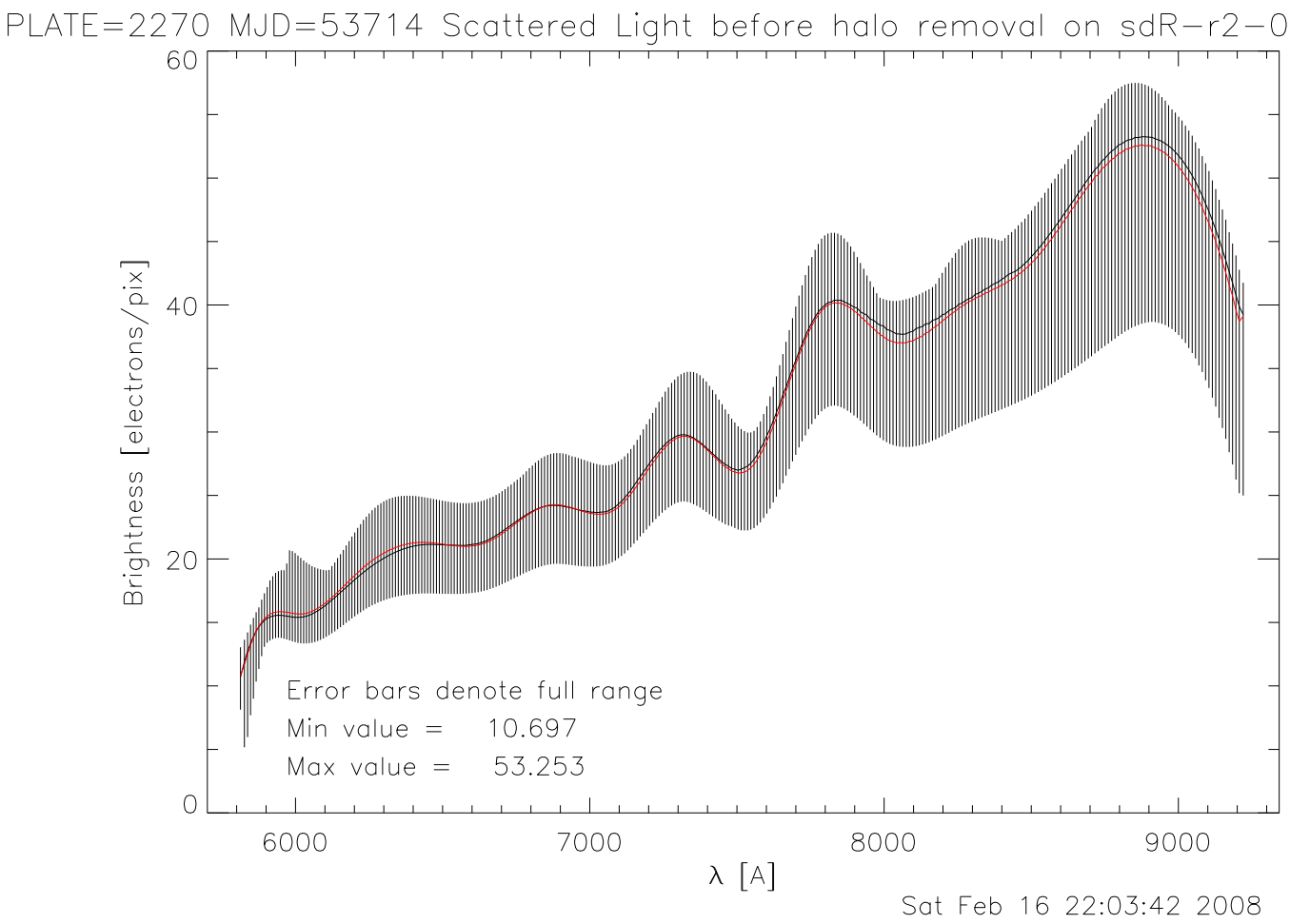

Number of sky fibers = 13
PLATE=2270 MJD=53714 sdR-r2-00035463.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

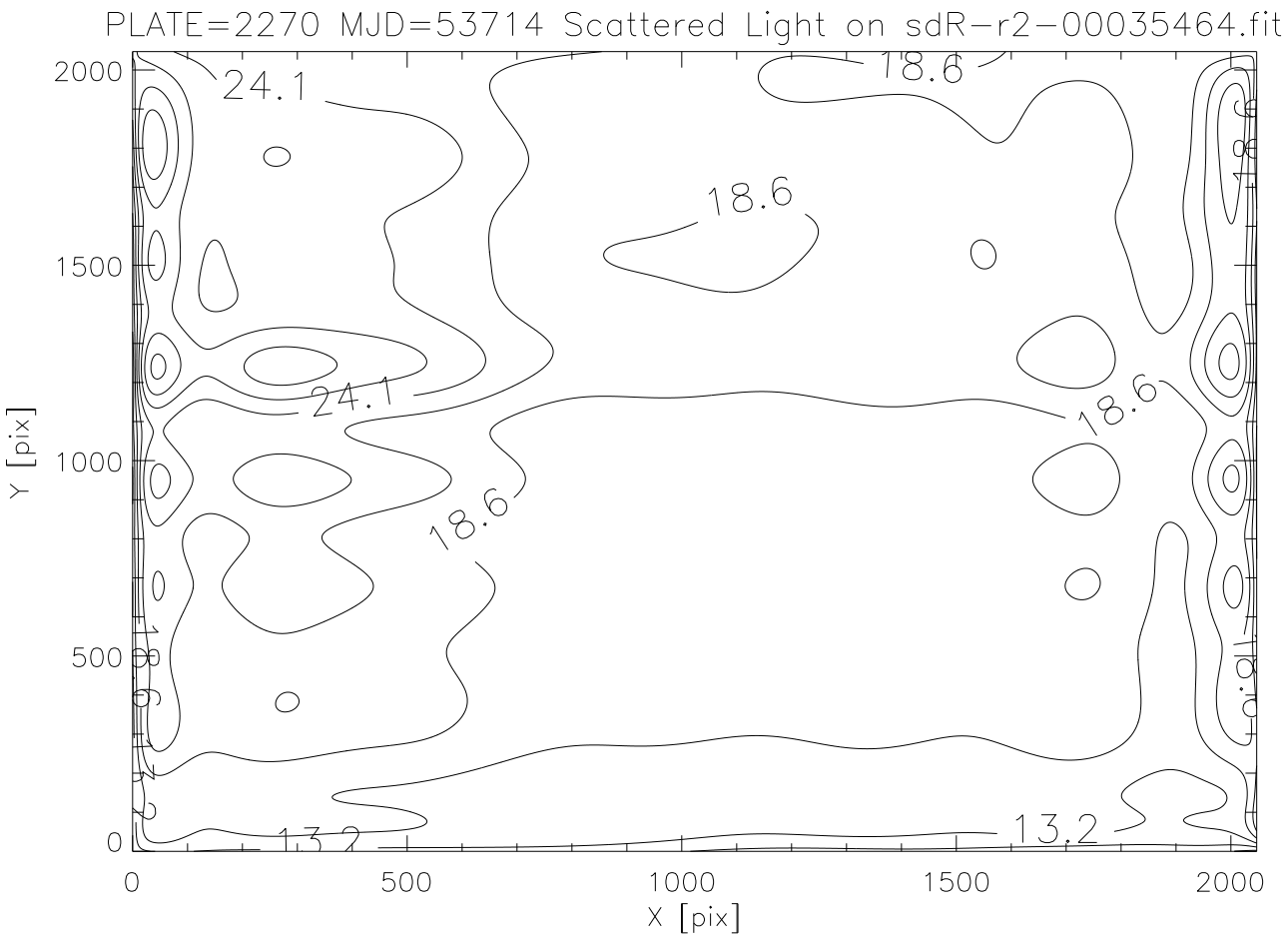

PLATE=2270 MJD=53714 sdR-r2-00035463.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.01 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

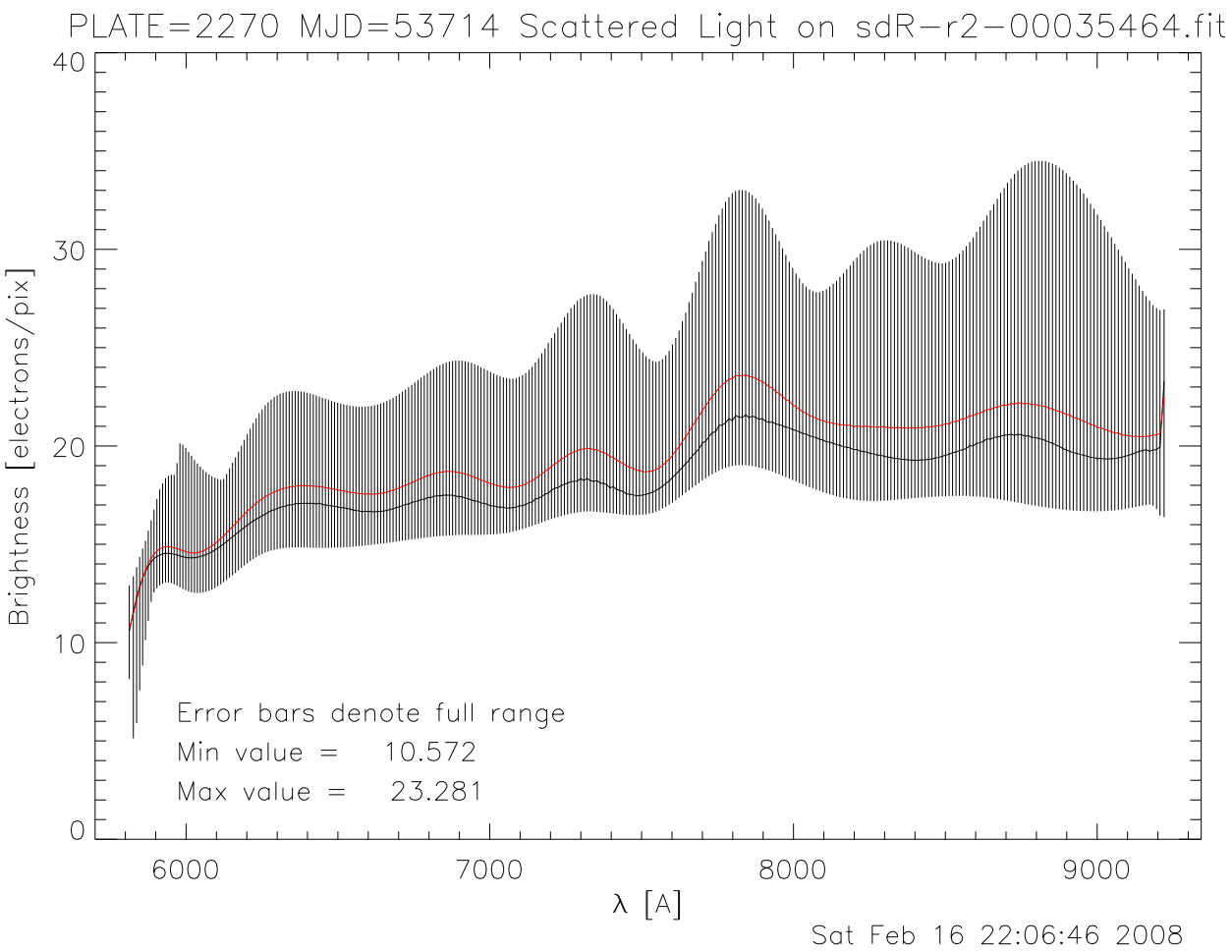

PLATE=2270 MJD=53714 sdR-r2-00035463.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.17 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

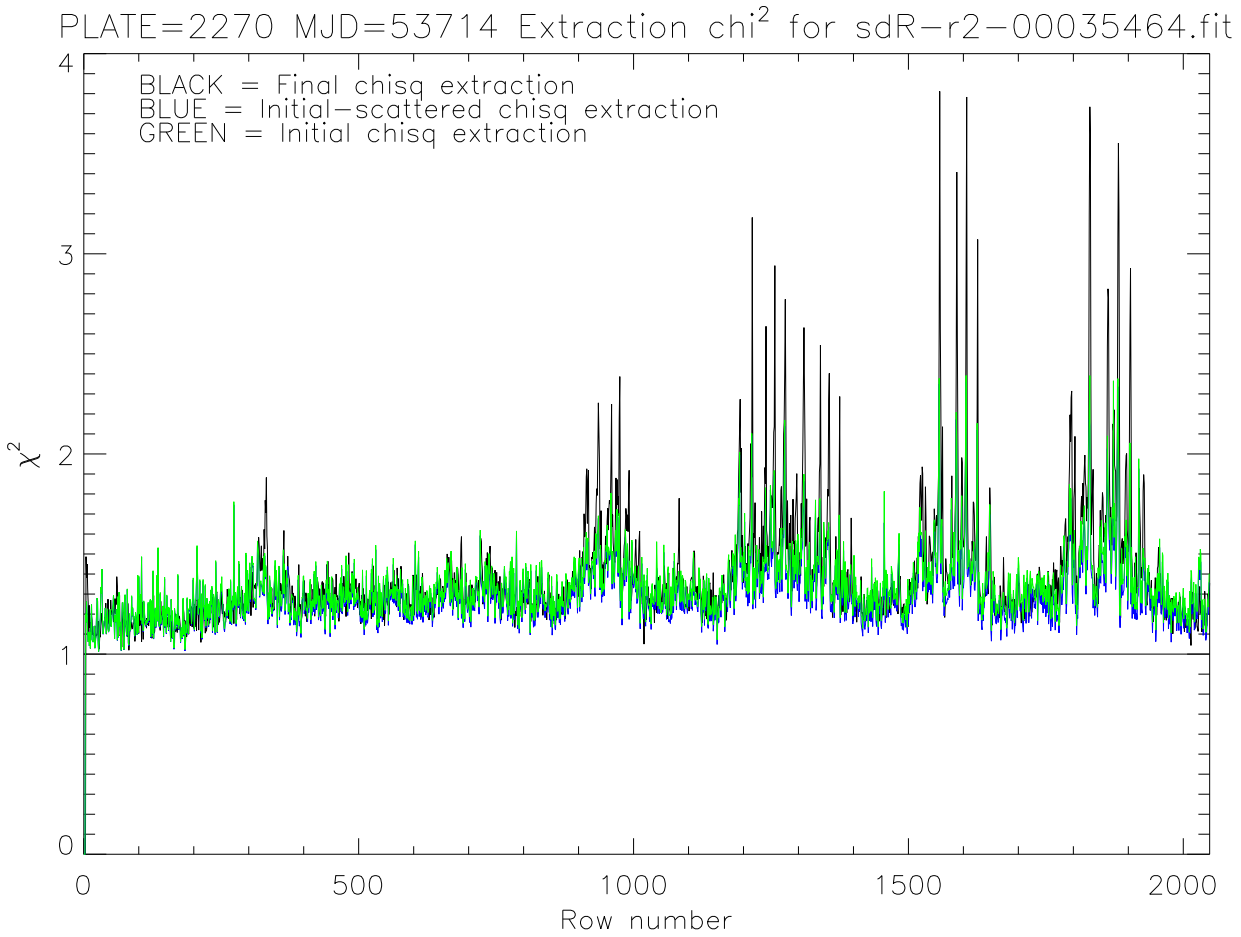

PLATE=2270 MJD=53714 Fiber-Flats for sdR-r2-00035466.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.425
Max value = 1.193
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sat Feb 16 22:02:46 2008

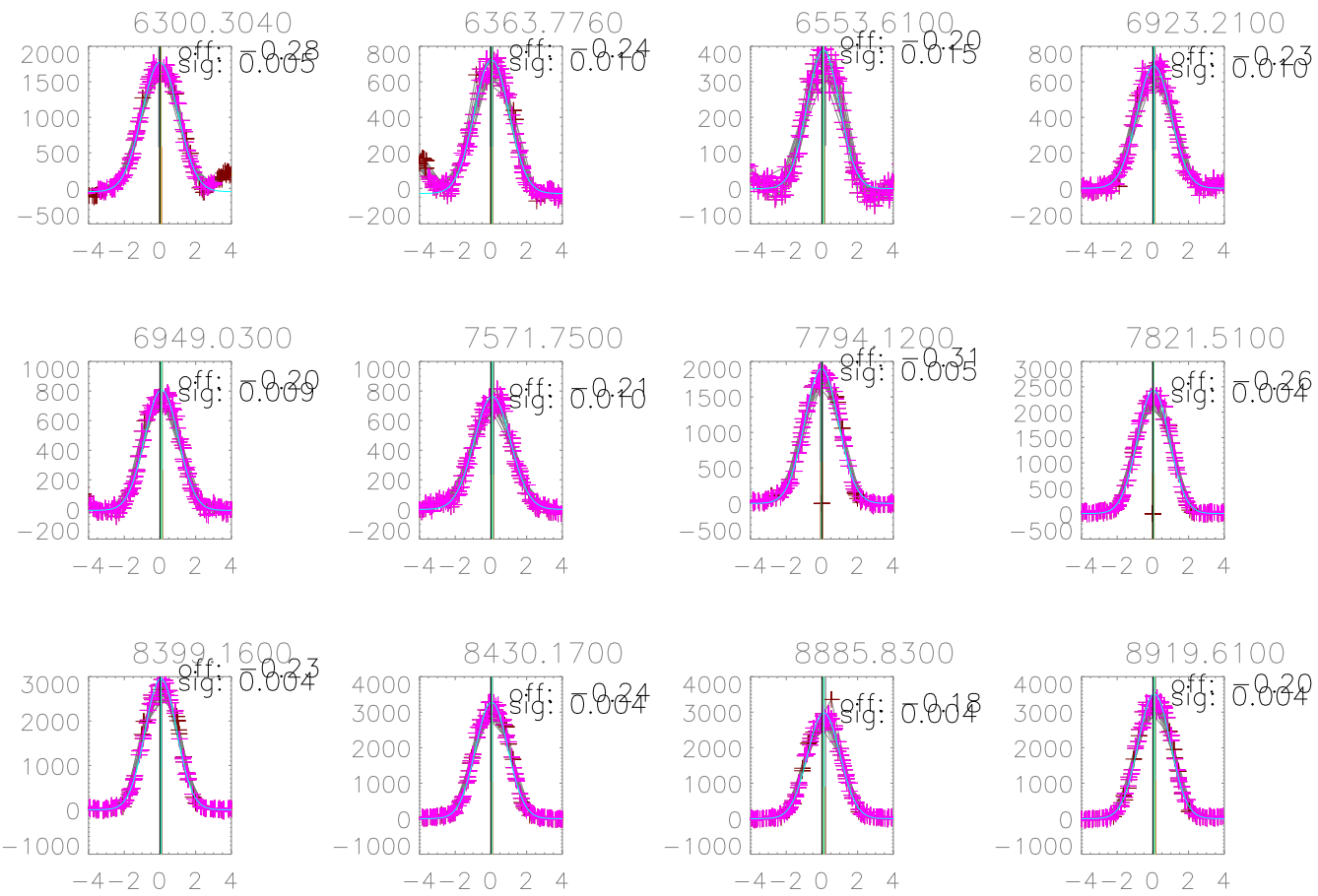

PLATE=2270 MJD=53714 Scattered Light before halo removal on sdR-r2-00035464.fi
49.1
49.1
38.2
38.2
27.3
27.3
27.3
16.4
16.4
Y [pix]
X [pix]
0
500
1000
1500
2000

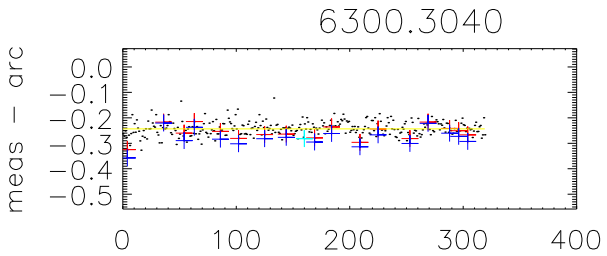

PLATE=2270 MJD=53714 Scattered Light before halo removal on sdR-r2-00035464.fi
Brightness [electrons/pix]
60
40
20
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 10.697
Max value = 53.253
Sat Feb 16 22:03:42 2008

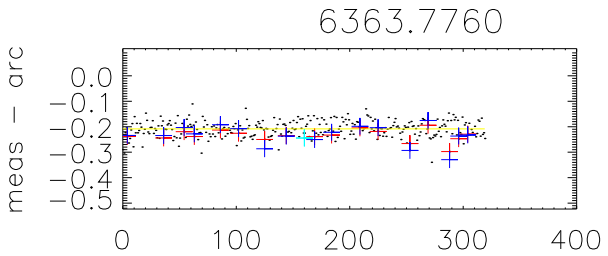

PLATE=2270 MJD=53714 Scattered Light on sdR-r2-00035464.fit
24.1
18.6
18.6
24.1
18.6
18.6
13.2
13.2
Y [pix]
X [pix]
0
500
1000
1500
2000

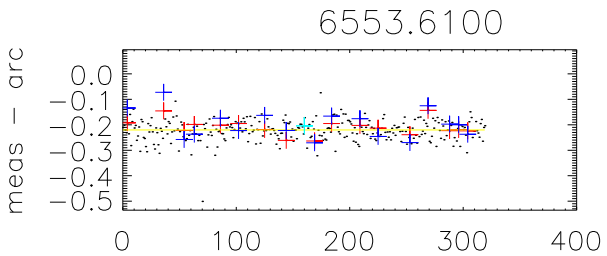

PLATE=2270 MJD=53714 Scattered Light on sdR-r2-00035464.fit
Brightness [electrons/pix]
40
30
20
10
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 10.572
Max value = 23.281
Sat Feb 16 22:06:46 2008

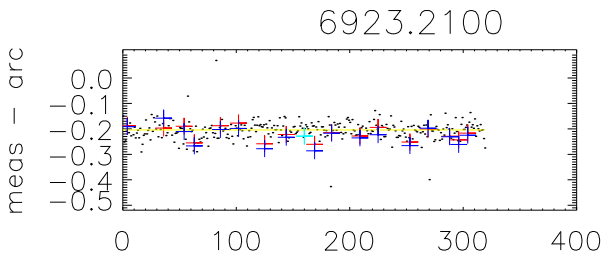

PLATE=2270 MJD=53714 Extraction chi^2 for sdR-r2-00035464.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

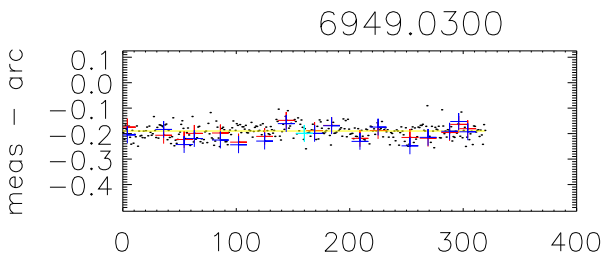

6300.3040
off: −0.28
sig: 0.005
6363.7760
off: −0.24
sig: 0.010
6553.6100
off: −0.20
sig: 0.015
6923.2100
off: −0.23
sig: 0.010
6949.0300
off: −0.20
sig: 0.009
7571.7500
off: −0.21
sig: 0.010
7794.1200
off: −0.31
sig: 0.005
7821.5100
off: −0.26
sig: 0.004
8399.1600
off: −0.23
sig: 0.004
8430.1700
off: −0.24
sig: 0.004
8885.8300
off: −0.18
sig: 0.004
8919.6100
off: −0.20
sig: 0.004

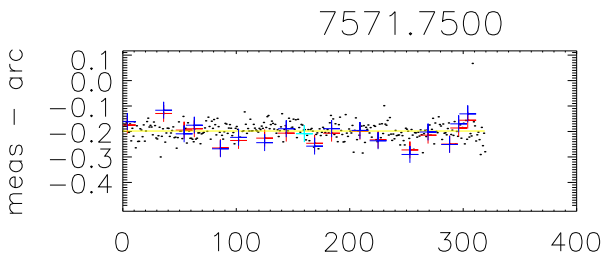

6300.3040
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

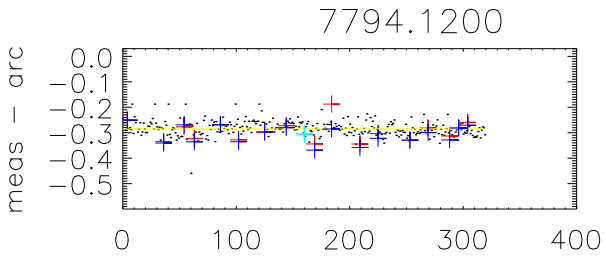

6363.7760
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

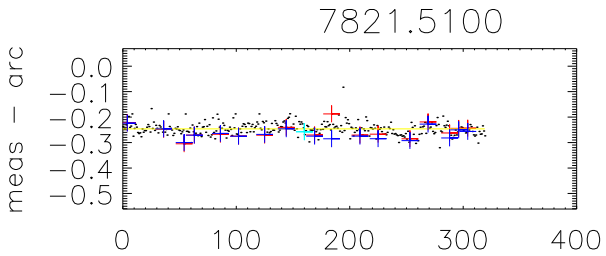

6553.6100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

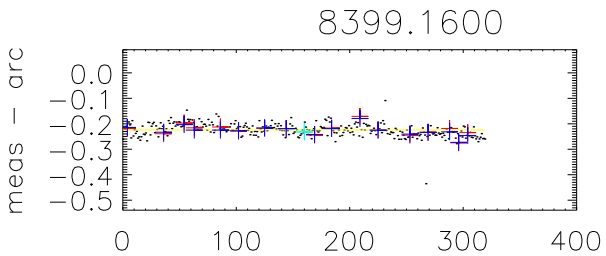

6923.2100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

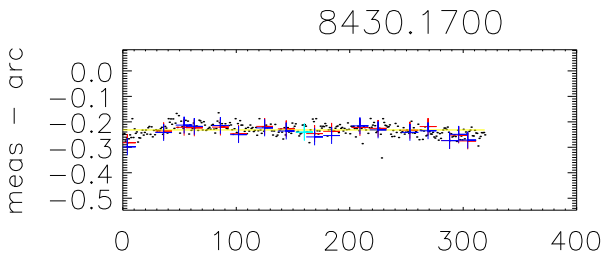

6949.0300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

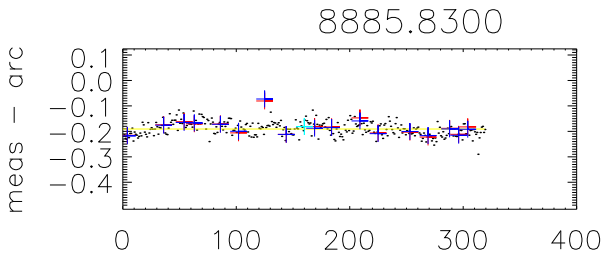

7571.7500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

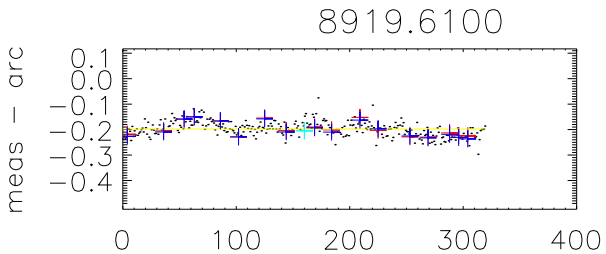

7794.1200
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

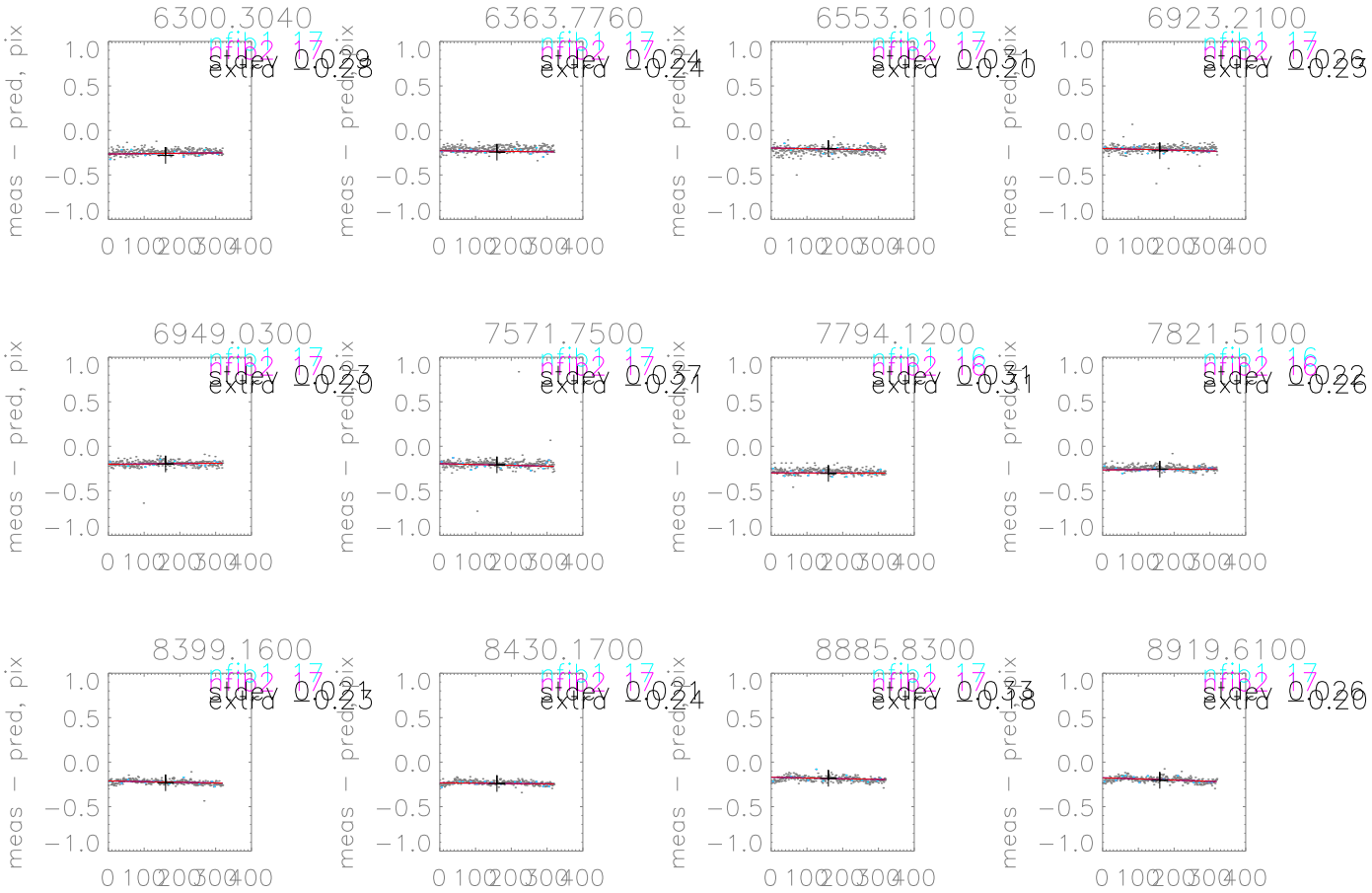

7821.5100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

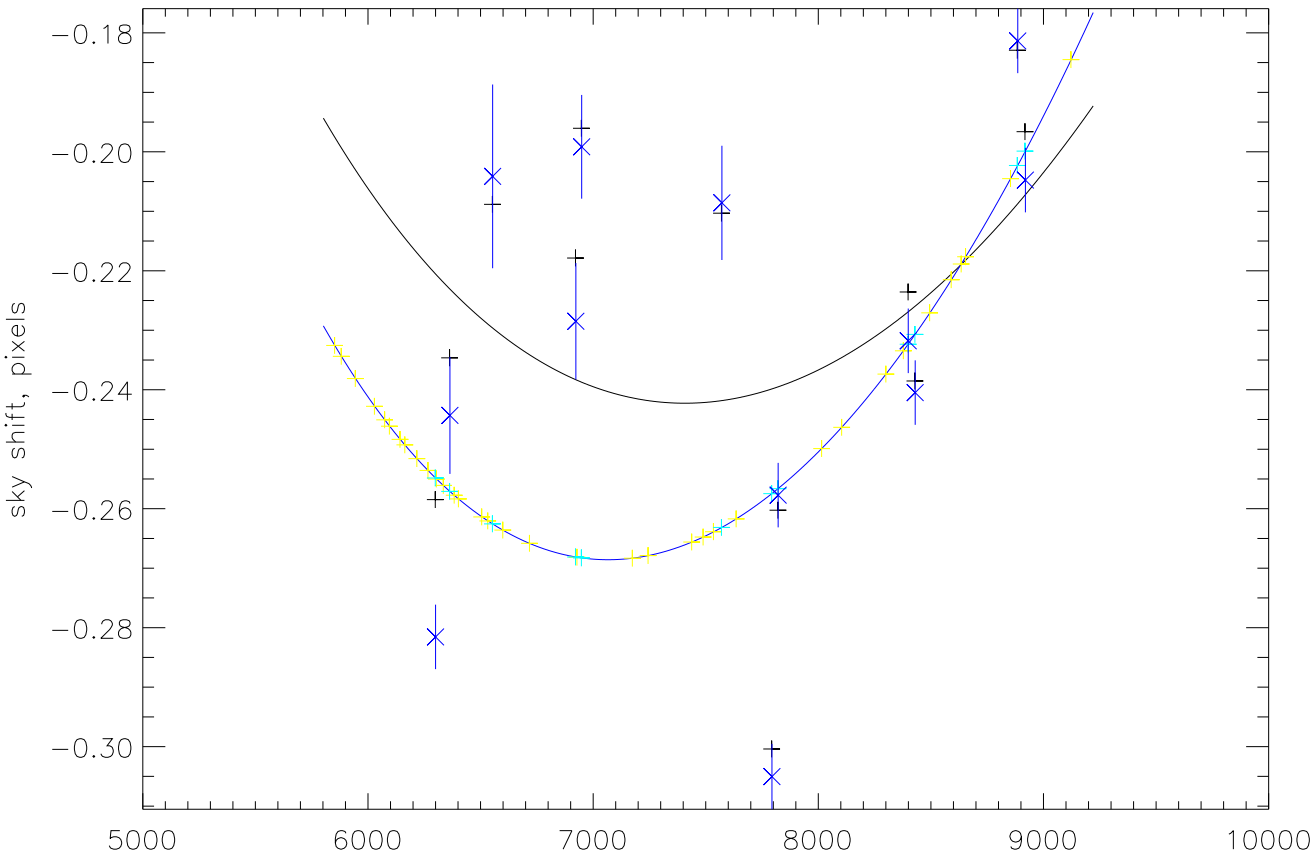

8399.1600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

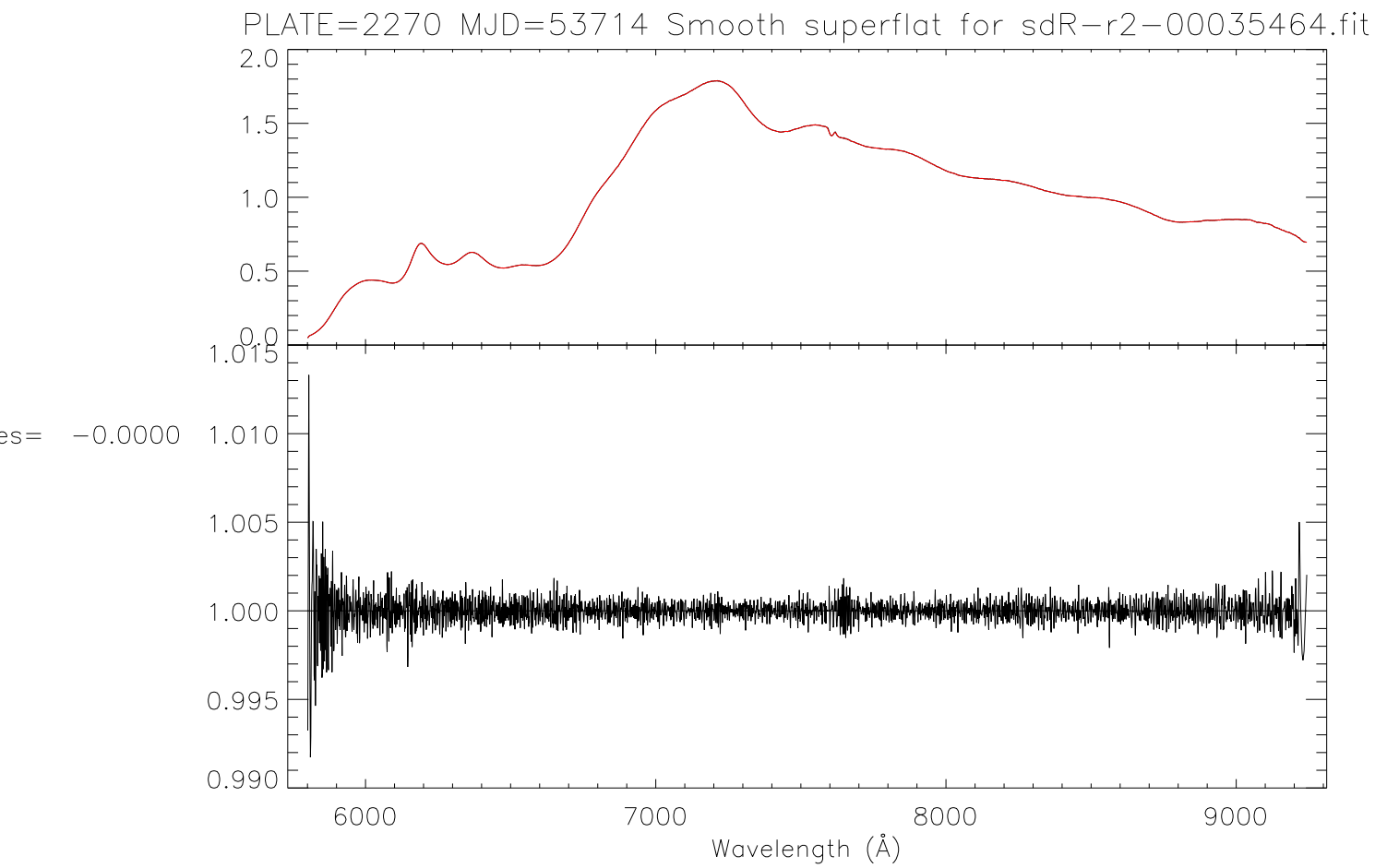

8430.1700
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400


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

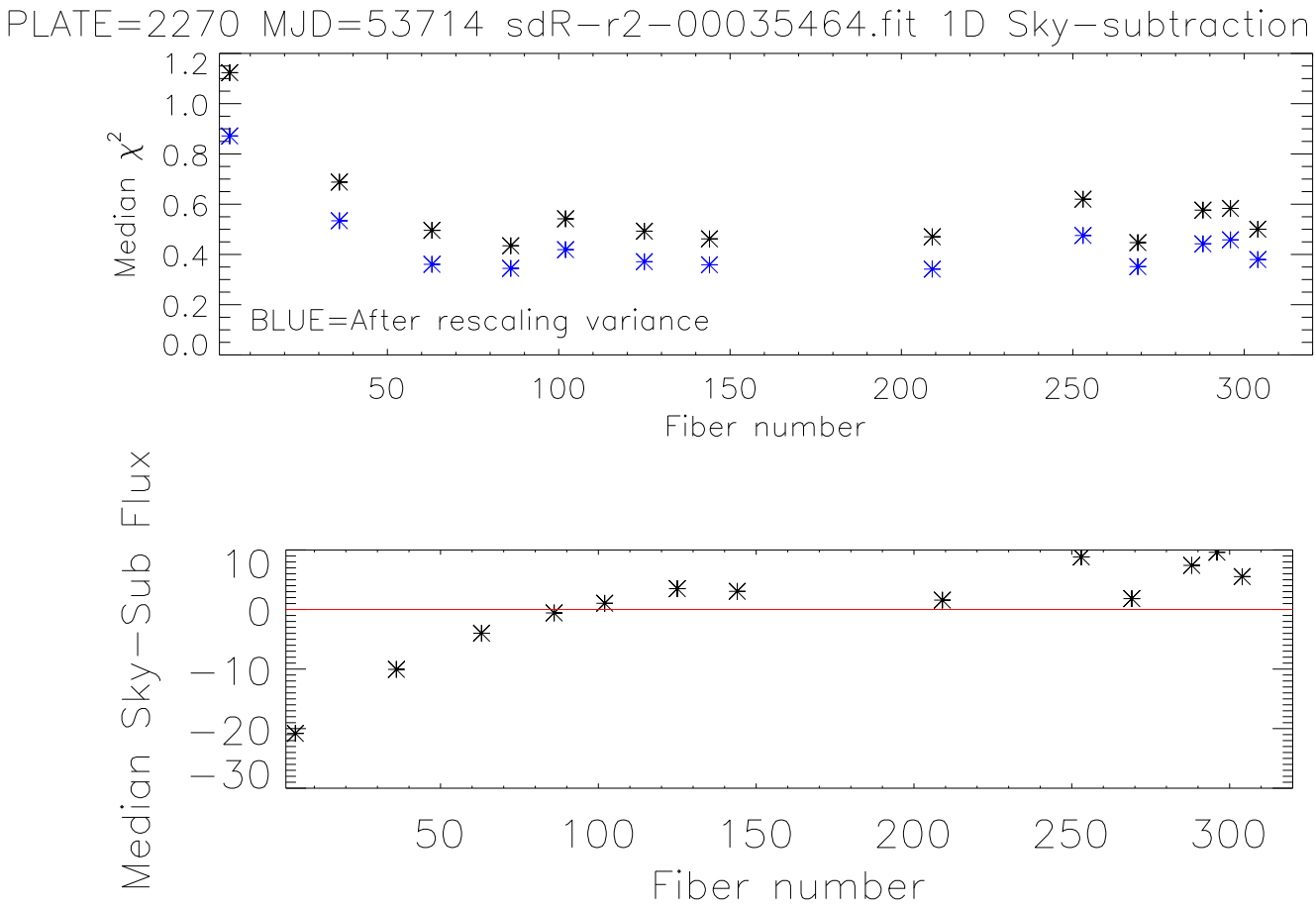

8919.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

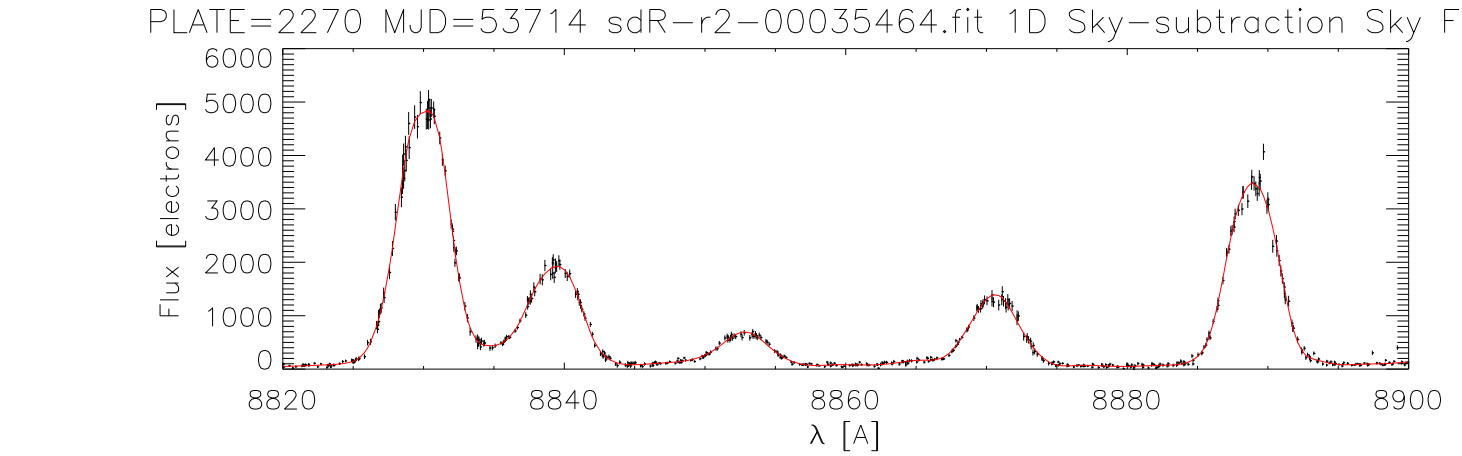

6300.3040
mfib1 17
mfib2 17
stdev 0.029
extra 0.28
6363.7760
mfib1 17
mfib2 17
stdev 0.024
extra 0.24
6553.6100
mfib1 17
mfib2 17
stdev 0.031
extra 0.20
6923.2100
mfib1 17
mfib2 17
stdev 0.026
extra 0.23
6949.0300
mfib1 17
mfib2 17
stdev 0.023
extra 0.20
7571.7500
mfib1 17
mfib2 17
stdev 0.037
extra 0.21
7794.1200
mfib1 16
mfib2 16
stdev 0.031
extra 0.31
7821.5100
mfib1 16
mfib2 16
stdev 0.022
extra 0.26
8399.1600
mfib1 17
mfib2 17
stdev 0.021
extra 0.23
8430.1700
mfib1 17
mfib2 17
stdev 0.021
extra 0.24
8885.8300
mfib1 17
mfib2 17
stdev 0.033
extra 0.18
8919.6100
mfib1 17
mfib2 17
stdev 0.026
extra 0.20
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

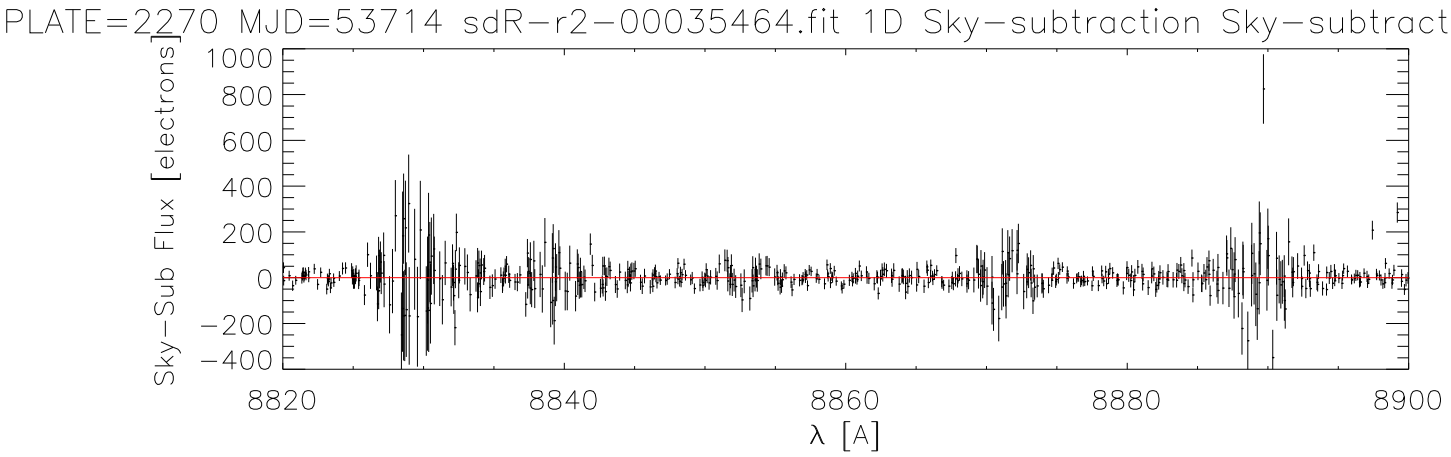

−0.18
−0.20
−0.22
−0.24
−0.26
−0.28
−0.30
sky shift, pixels
5000
6000
7000
8000
9000
10000

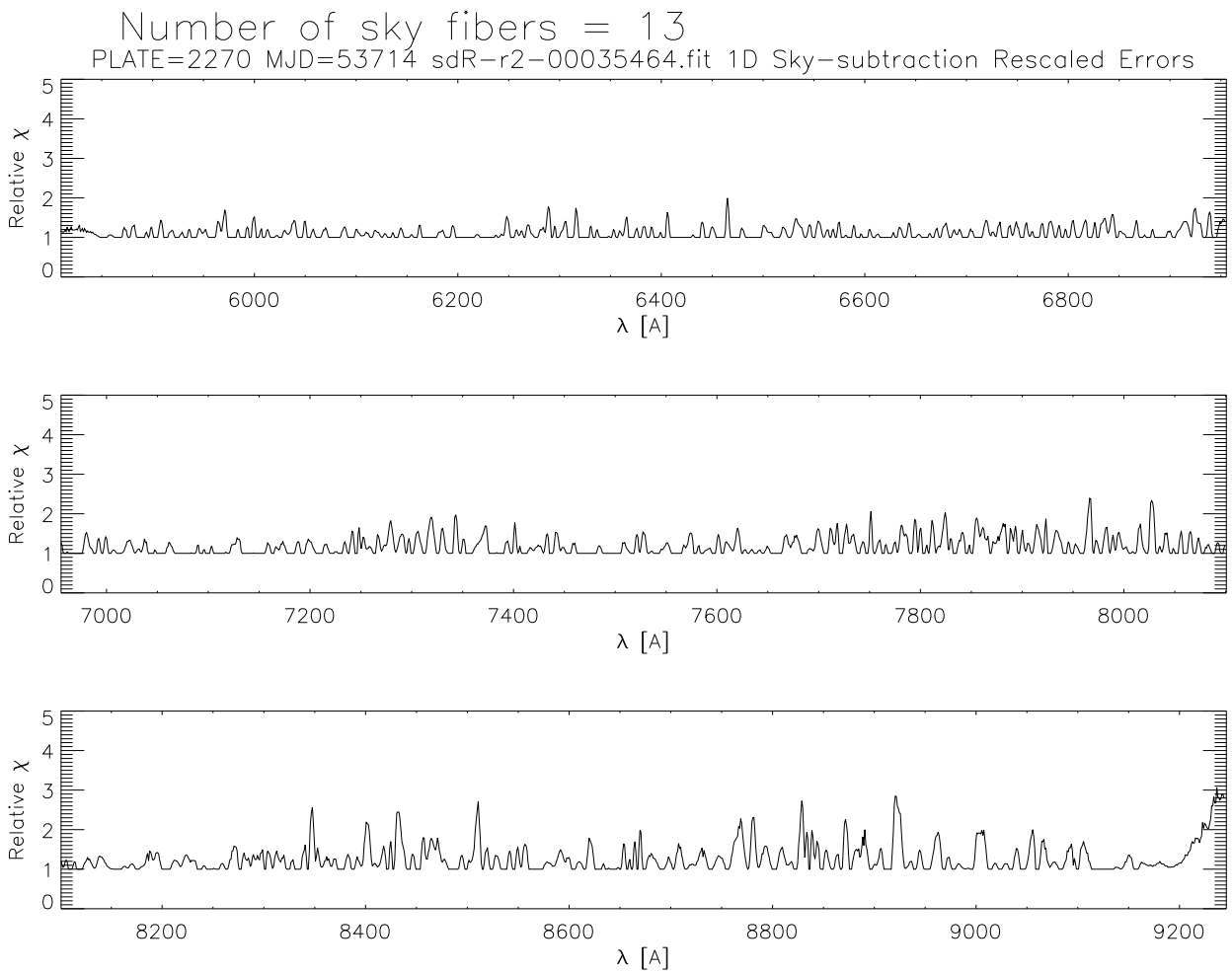

PLATE=2270 MJD=53714 Smooth superflat for sdR-r2-00035464.fit
2.0
1.5
1.0
0.5
0.0
1.015
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

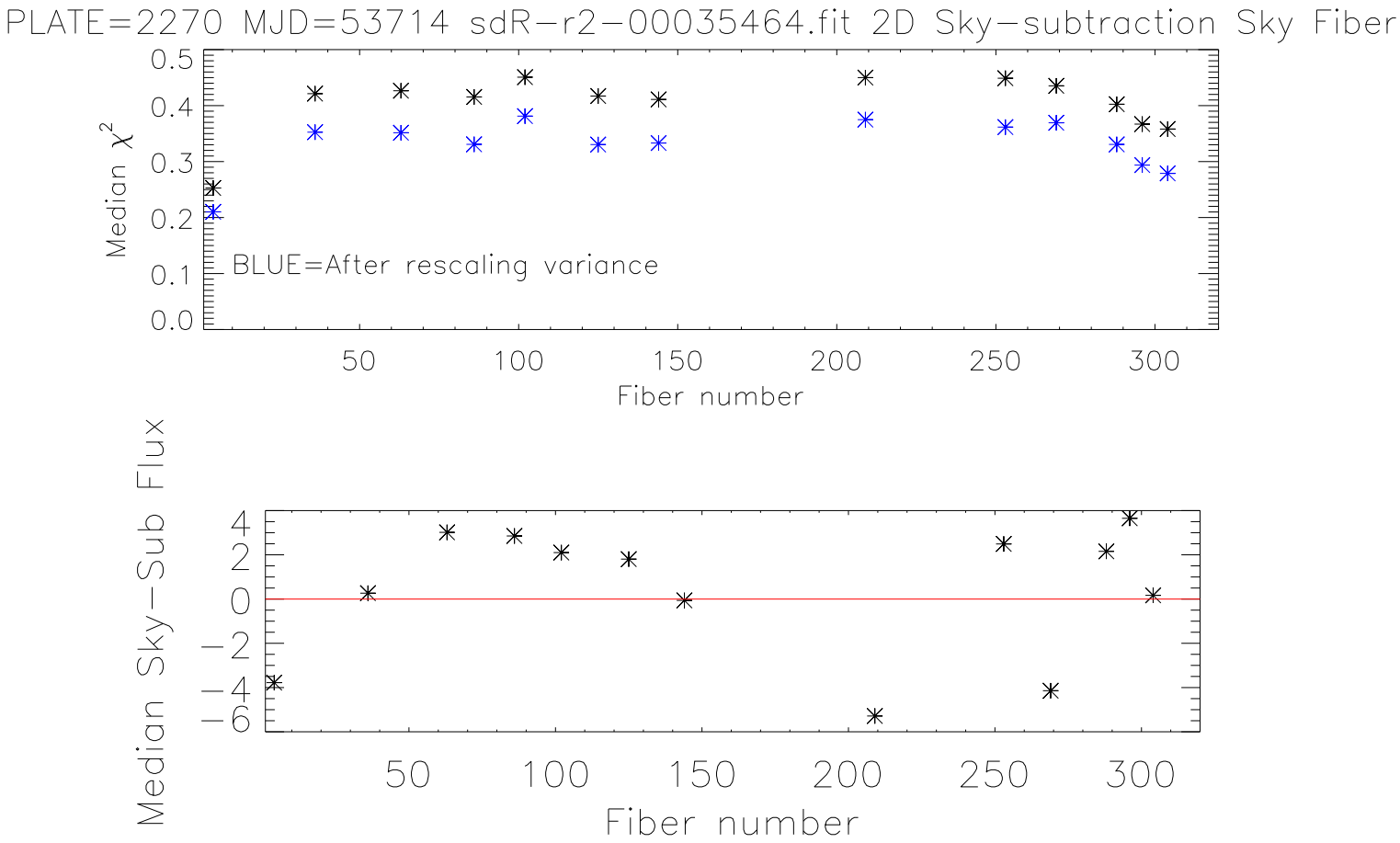
es= −0.0000

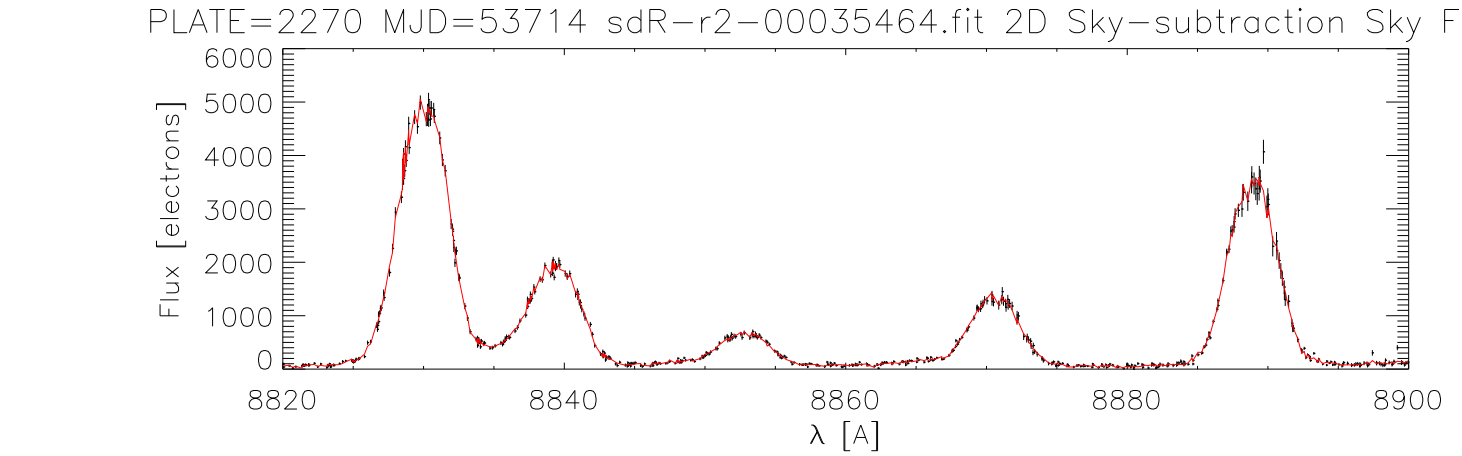

PLATE=2270 MJD=53714 sdR-r2-00035464.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

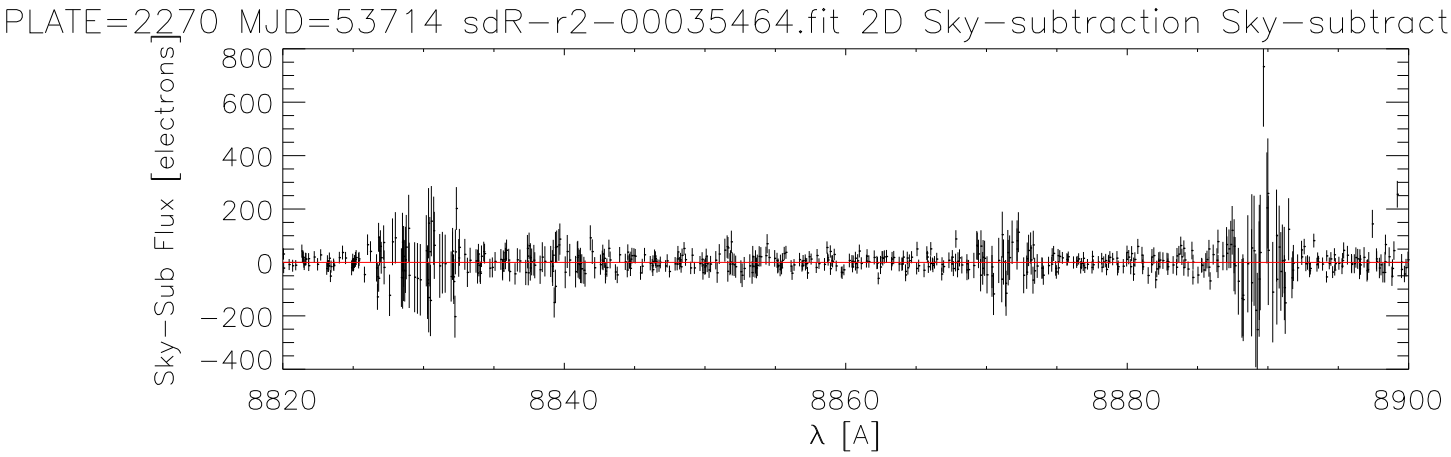

PLATE=2270 MJD=53714 sdR-r2-00035464.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

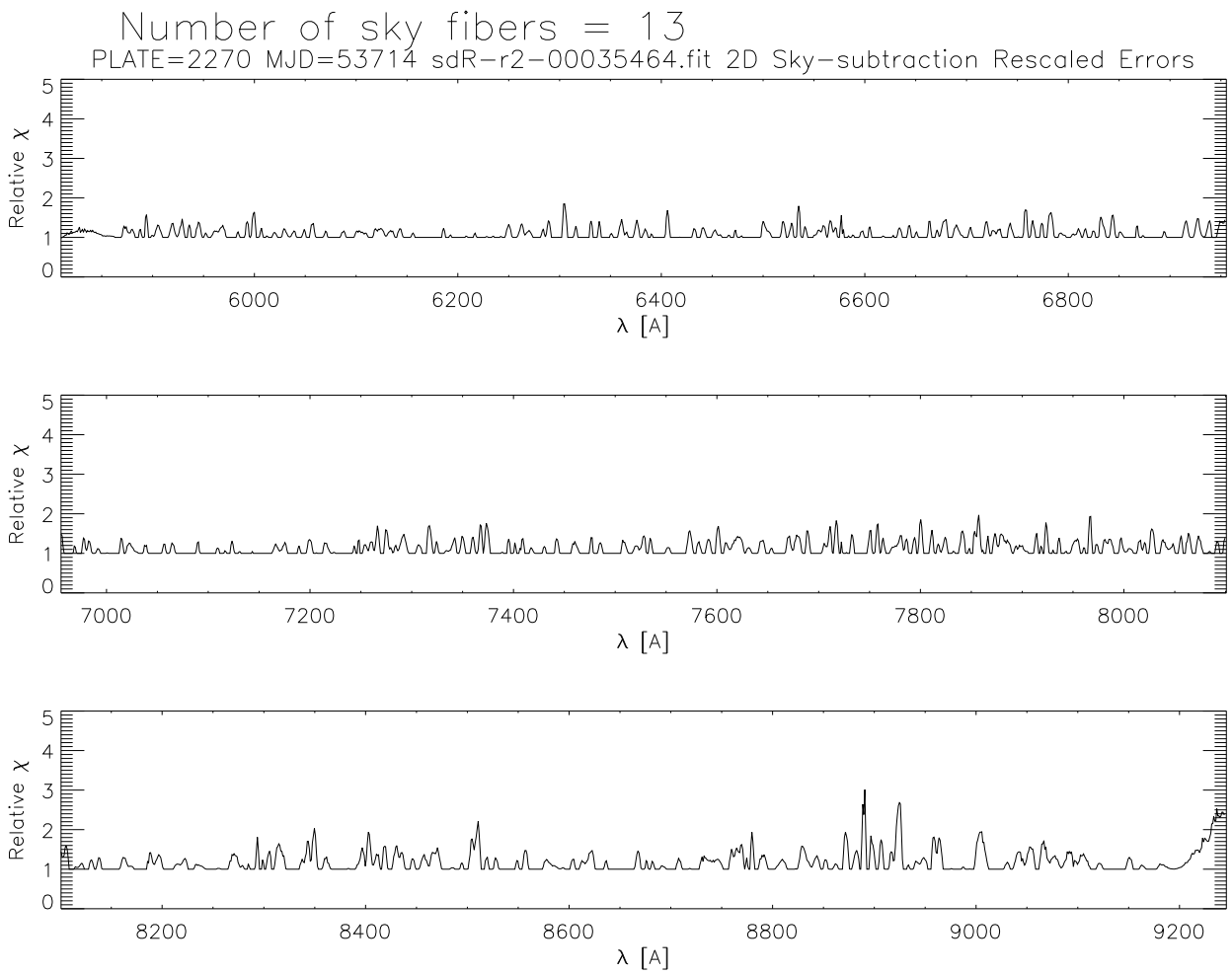

PLATE=2270 MJD=53714 sdR-r2-00035464.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
800
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

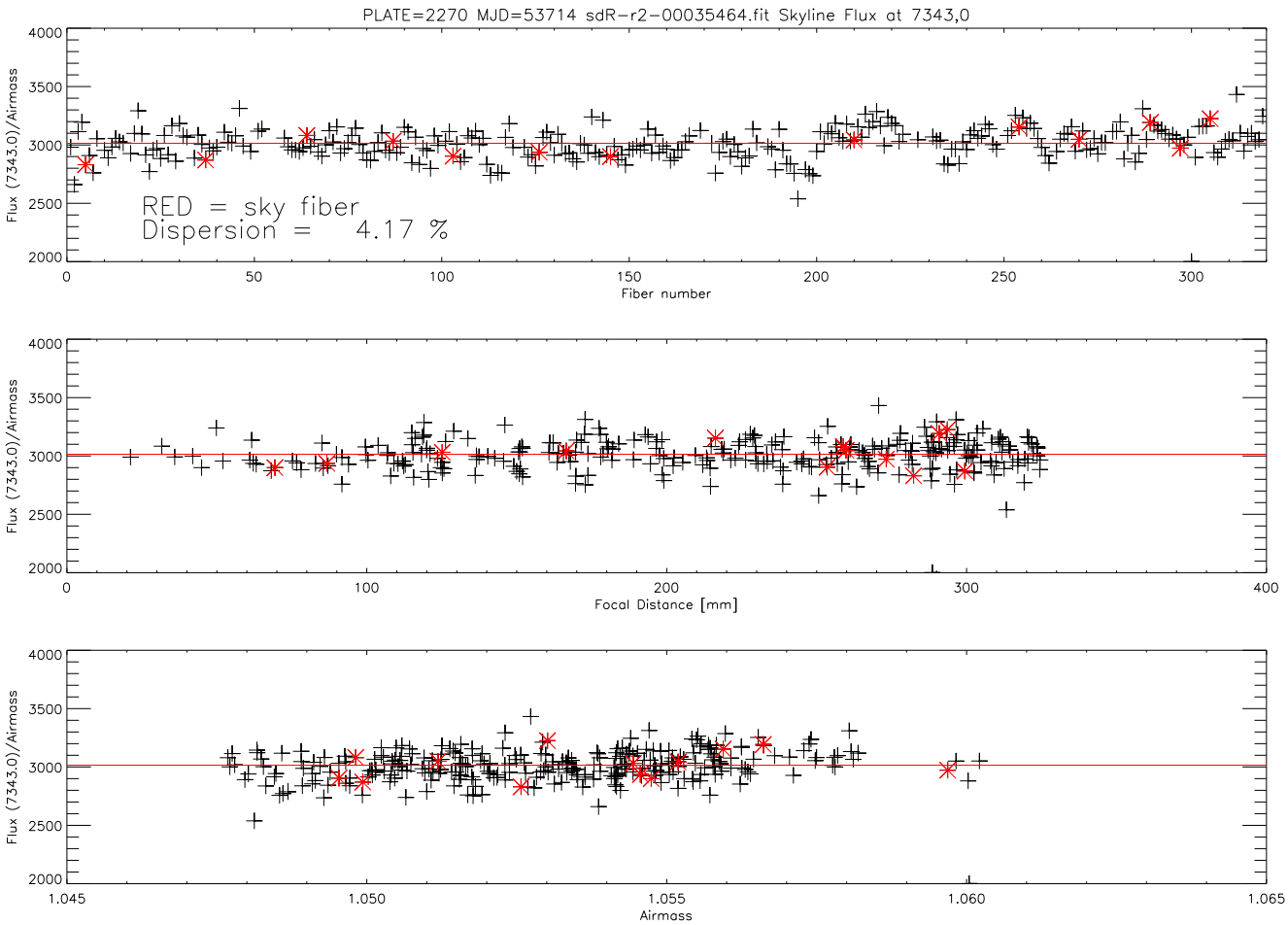

Number of sky fibers = 13
PLATE=2270 MJD=53714 sdR-r2-00035464.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

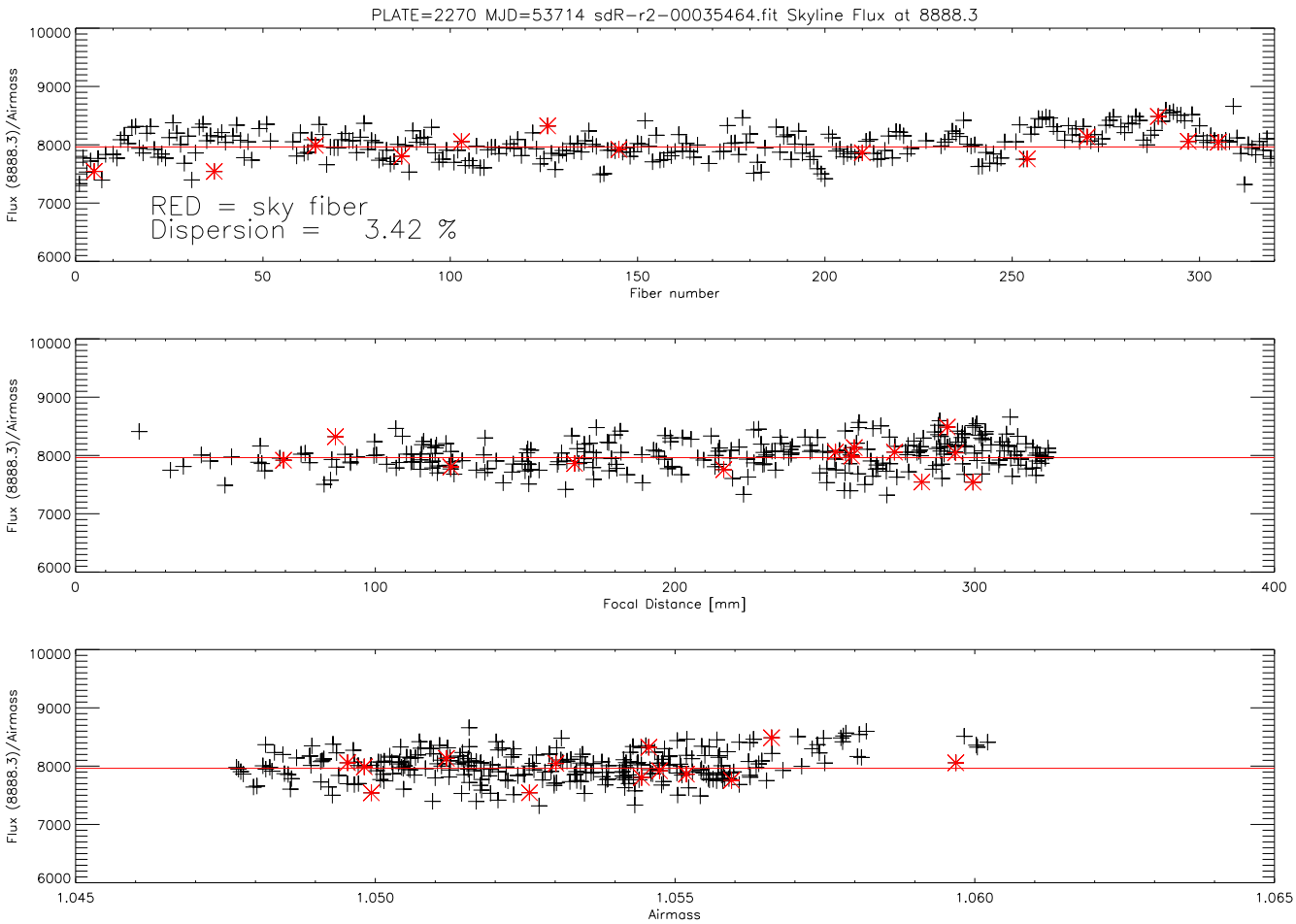

PLATE=2270 MJD=53714 sdR-r2-00035464.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
50
100
150
200
250
300
Fiber number

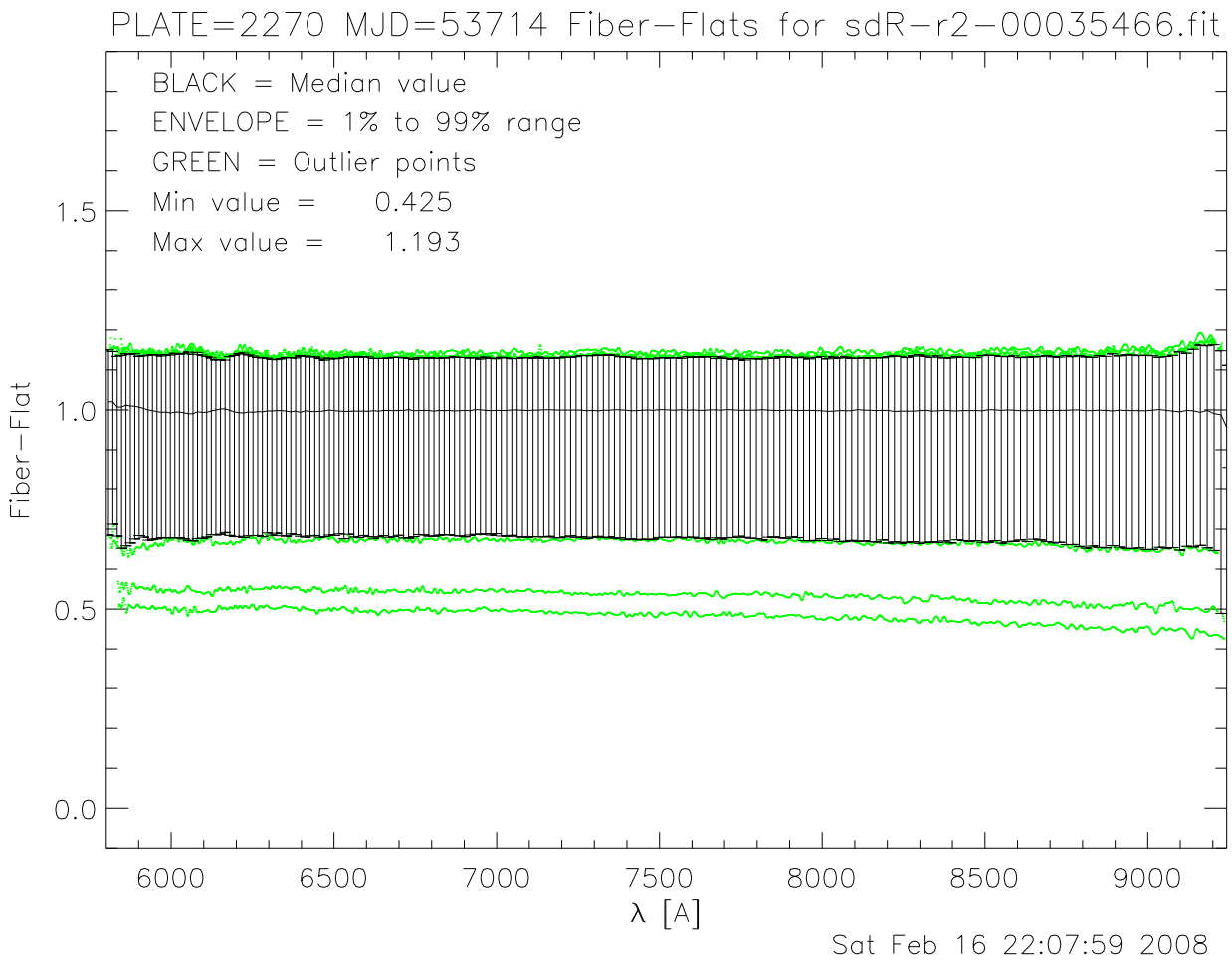

PLATE=2270 MJD=53714 sdR-r2-00035464.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

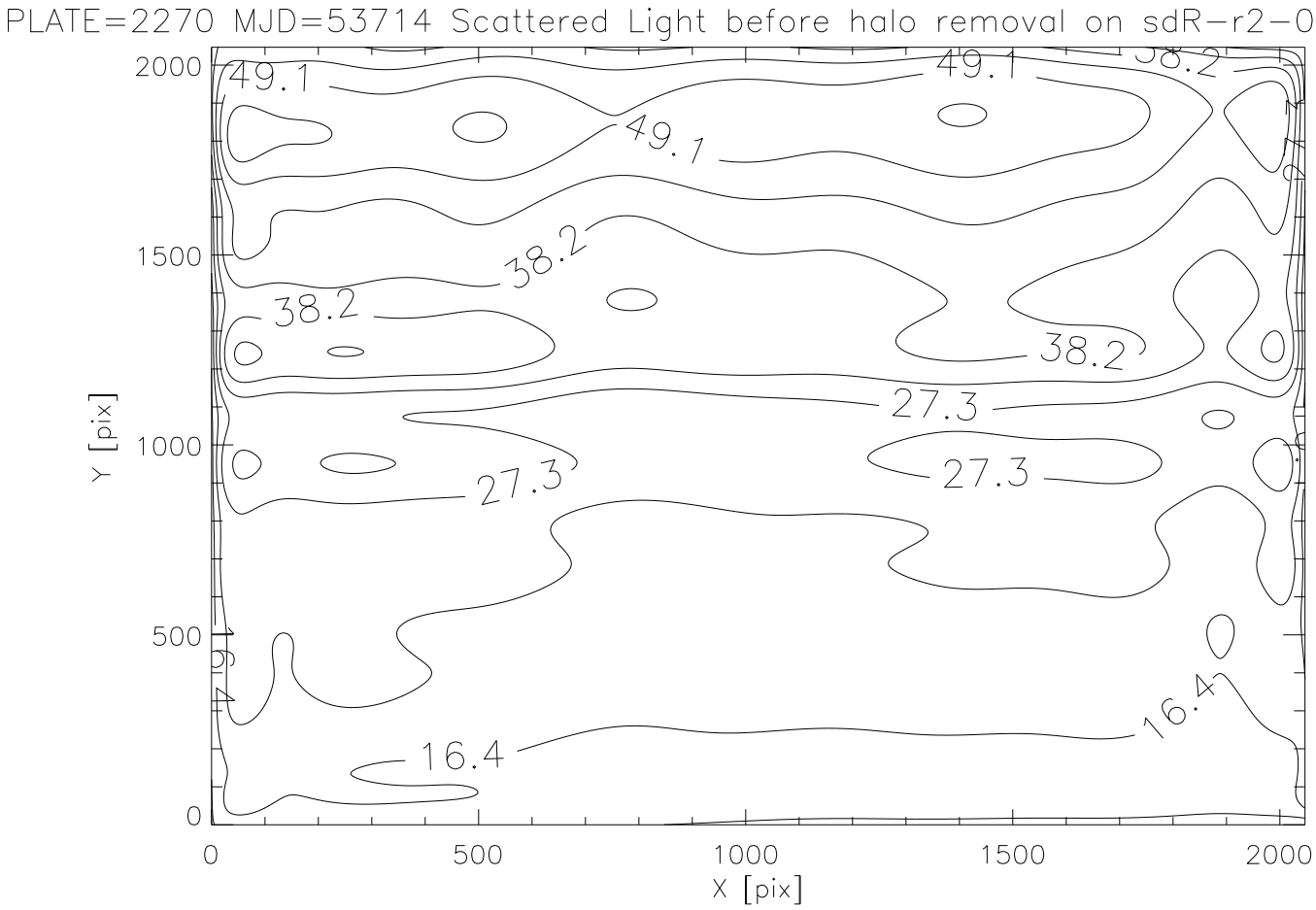

PLATE=2270 MJD=53714 sdR-r2-00035464.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

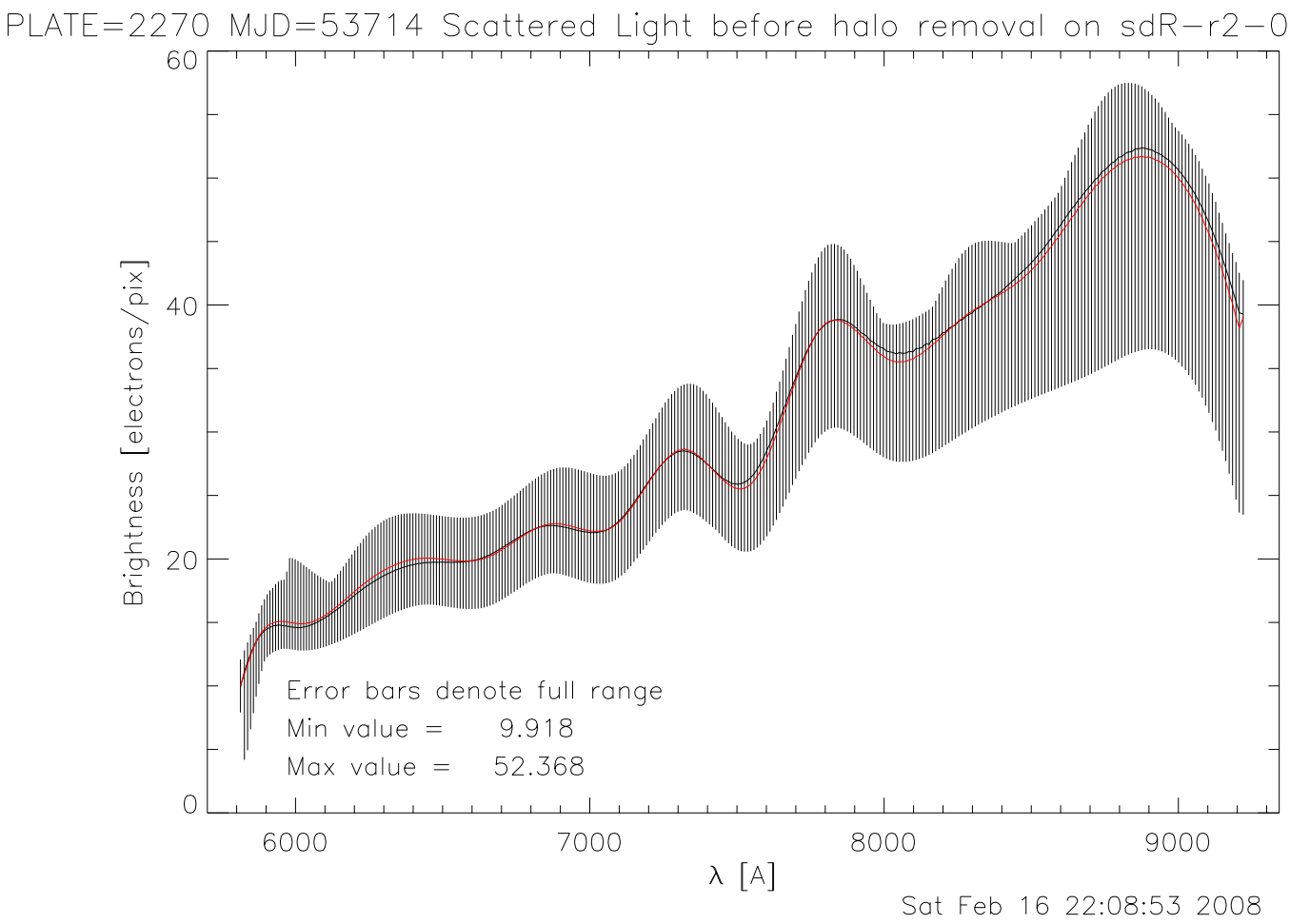

Number of sky fibers = 13
PLATE=2270 MJD=53714 sdR-r2-00035464.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

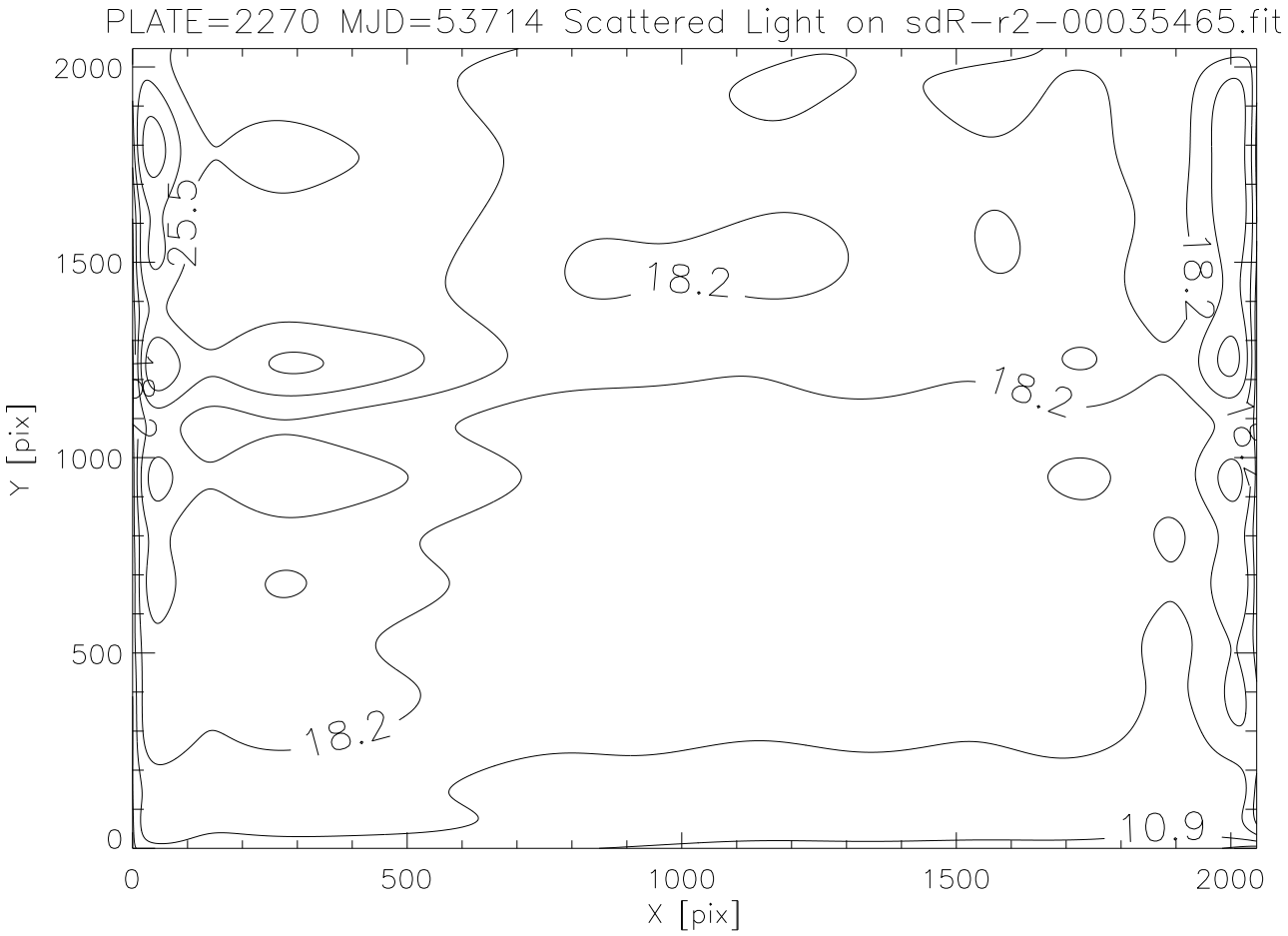

PLATE=2270 MJD=53714 sdR-r2-00035464.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 4.17 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

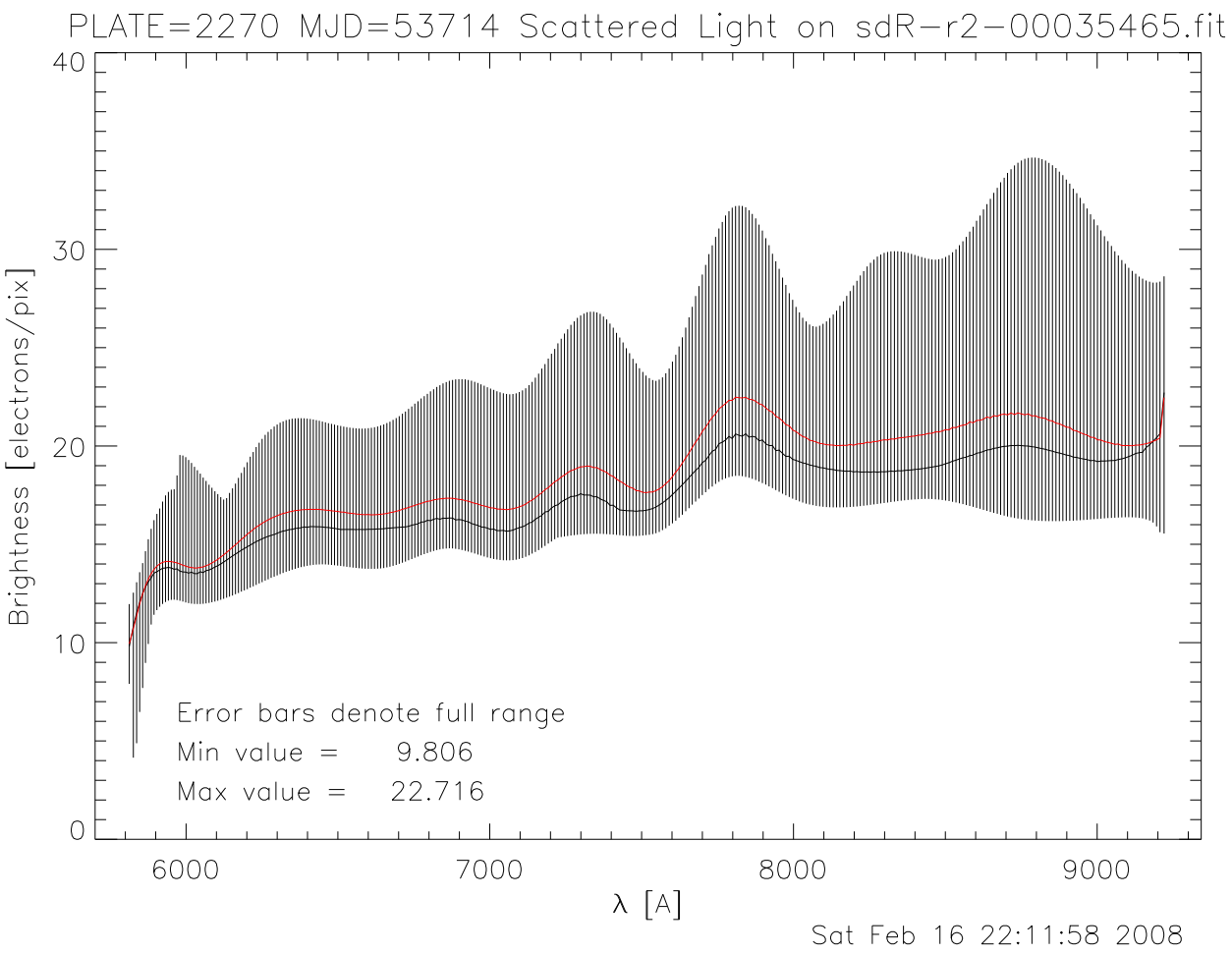

PLATE=2270 MJD=53714 sdR-r2-00035464.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.42 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

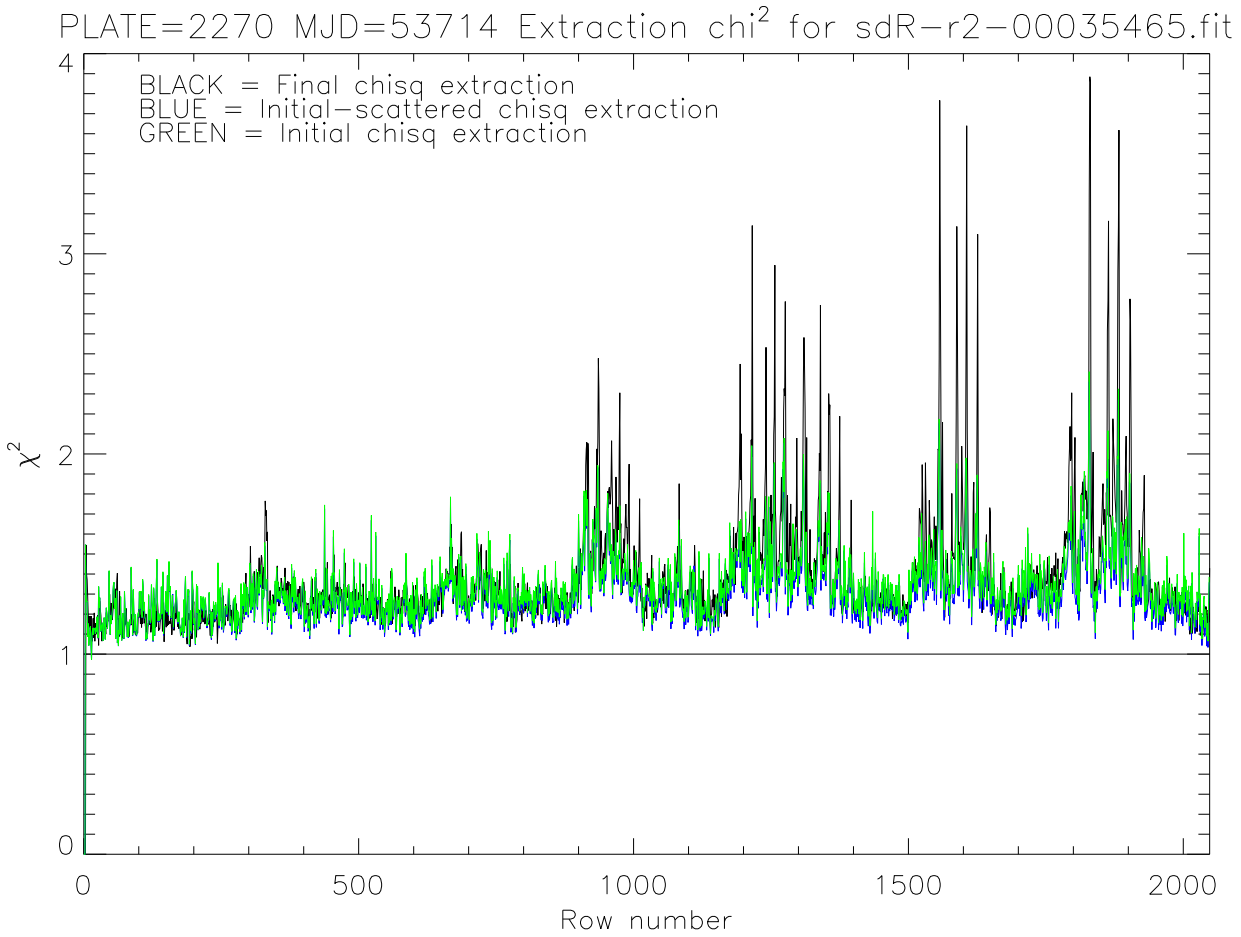

PLATE=2270 MJD=53714 Fiber-Flats for sdR-r2-00035466.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.425
Max value = 1.193
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sat Feb 16 22:07:59 2008

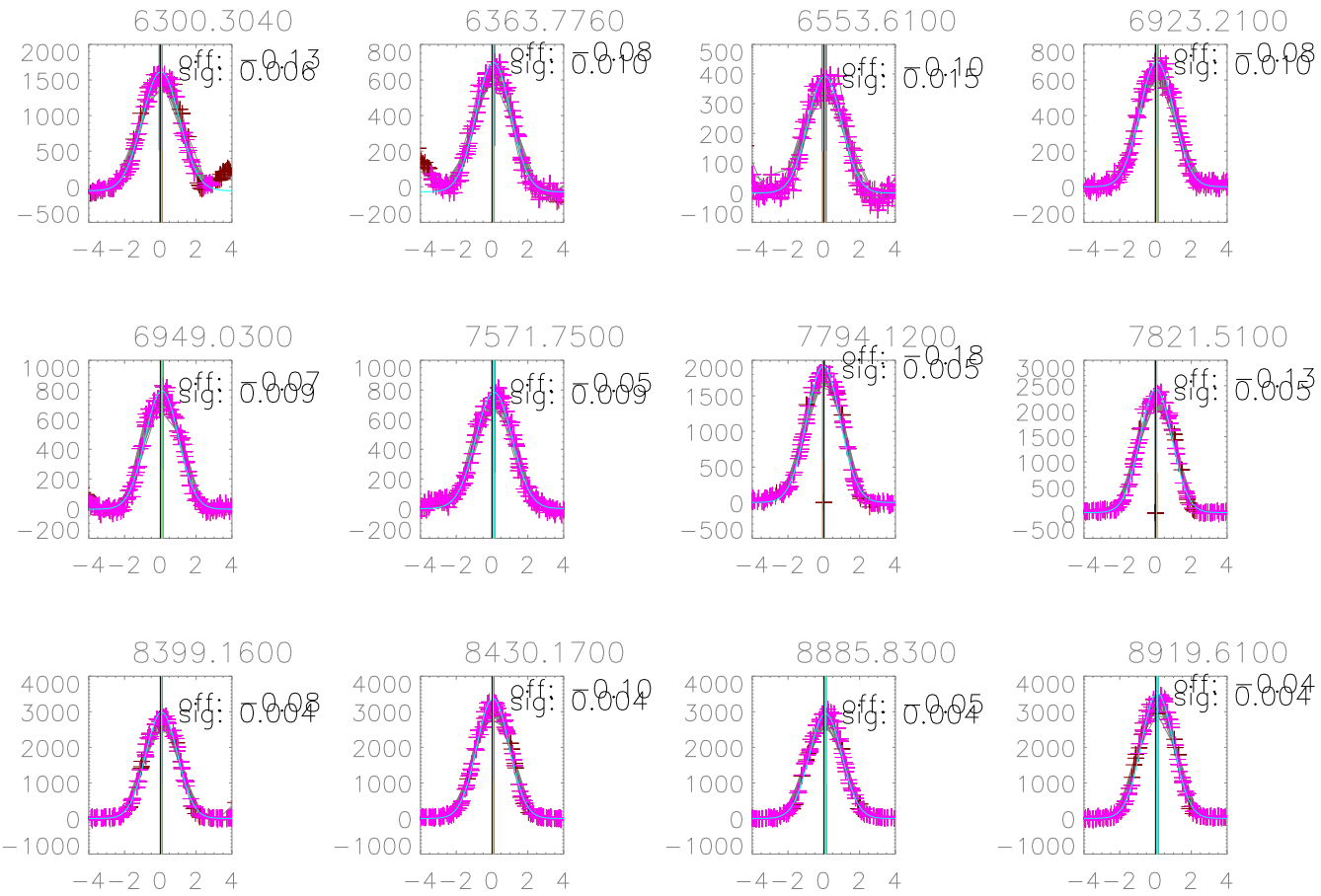

PLATE=2270 MJD=53714 Scattered Light before halo removal on sdR−r2−00035465.fi
49.1
49.1
49.1
38.2
38.2
38.2
38.2
27.3
27.3
27.3
16.4
16.4
16.4
Y [pix]
X [pix]
0
500
1000
1500
2000

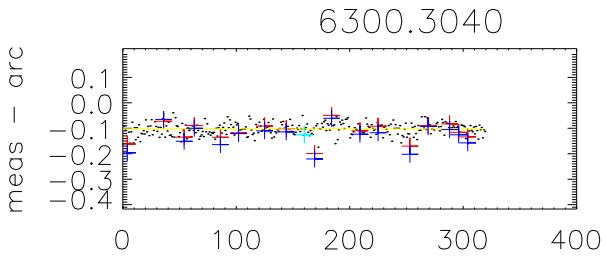

PLATE=2270 MJD=53714 Scattered Light before halo removal on sdR-r2-00035465.fi
Brightness [electrons/pix]
60
40
20
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 9.918
Max value = 52.368
Sat Feb 16 22:08:53 2008

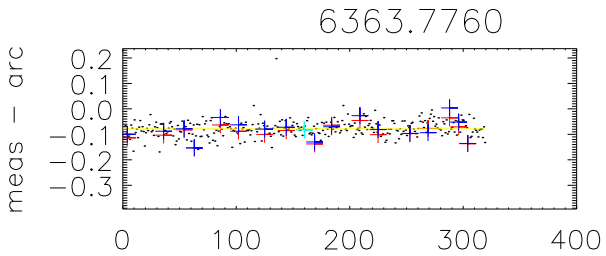

PLATE=2270 MJD=53714 Scattered Light on sdR-r2-00035465.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
25.5
18.2
18.2
18.2
18.2
18.2
10.9

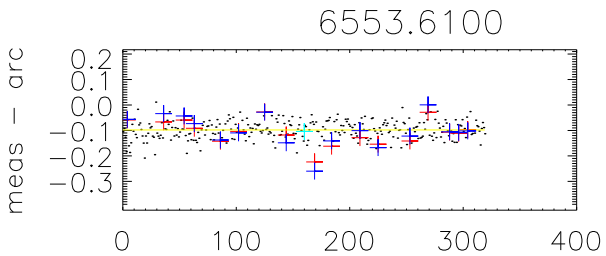

PLATE=2270 MJD=53714 Scattered Light on sdR-r2-00035465.fit
Brightness [electrons/pix]
40
30
20
10
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 9.806
Max value = 22.716
Sat Feb 16 22:11:58 2008

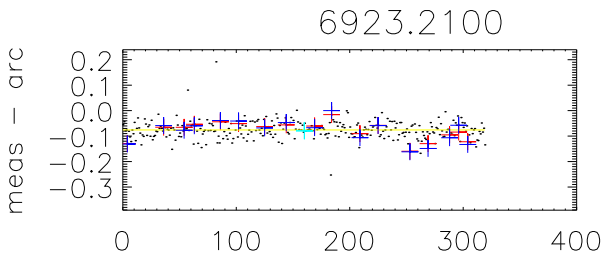

PLATE=2270 MJD=53714 Extraction chi^2 for sdR−r2−00035465.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

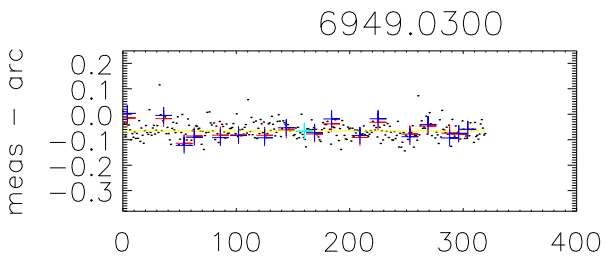

6300.3040
off: −0.13
sig: 0.006
6363.7760
off: −0.08
sig: 0.010
6553.6100
off: −0.10
sig: 0.015
6923.2100
off: −0.08
sig: 0.010
6949.0300
off: −0.07
sig: 0.009
7571.7500
off: −0.05
sig: 0.009
7794.1200
off: −0.18
sig: 0.005
7821.5100
off: −0.13
sig: 0.005
8399.1600
off: −0.08
sig: 0.004
8430.1700
off: −0.10
sig: 0.004
8885.8300
off: −0.05
sig: 0.004
8919.6100
off: −0.04
sig: 0.004

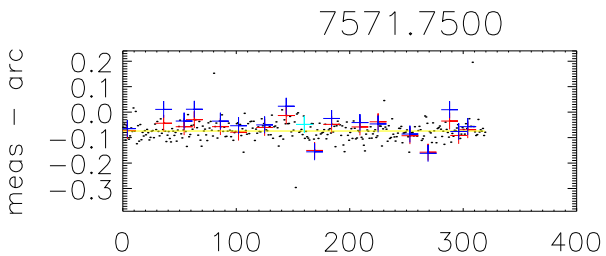

6300.3040
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

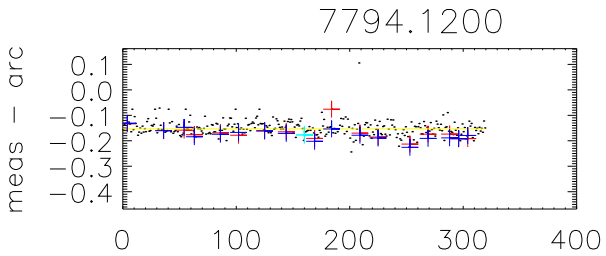

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

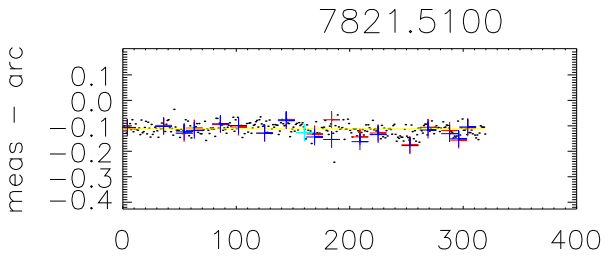

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

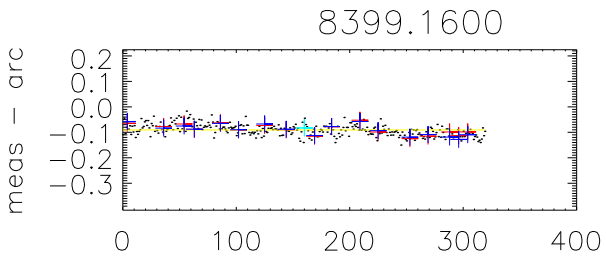

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

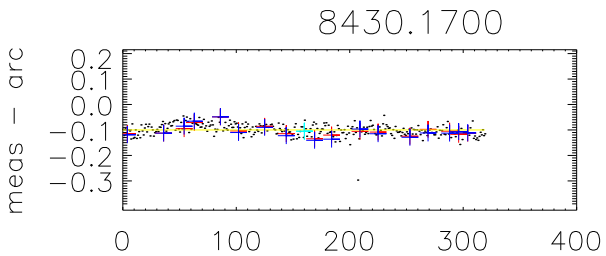

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

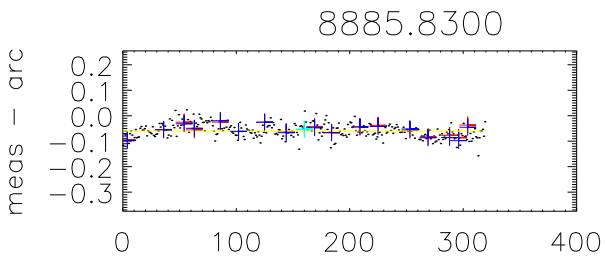

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

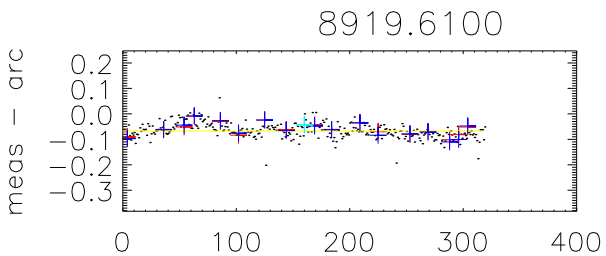

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

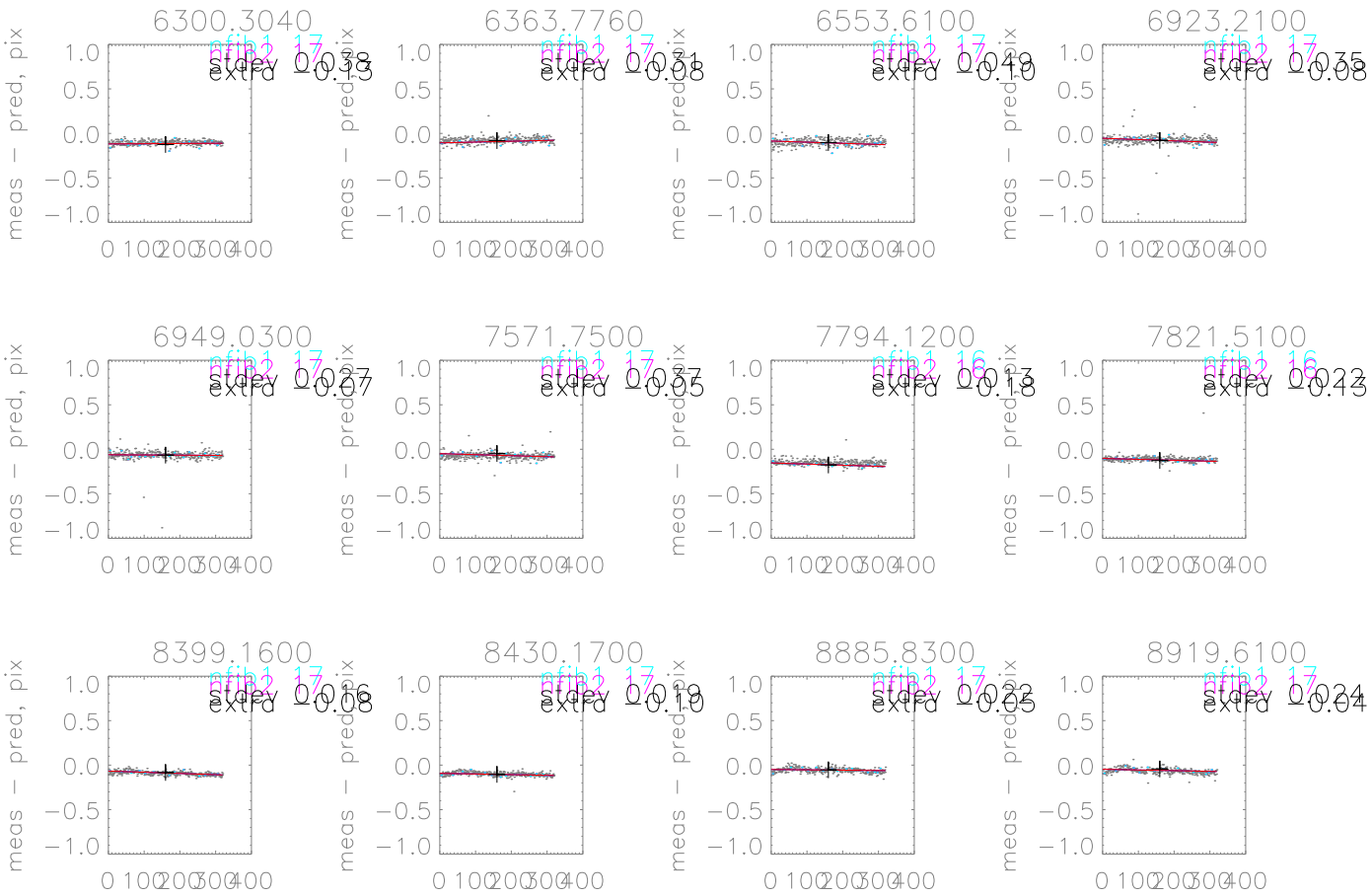

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

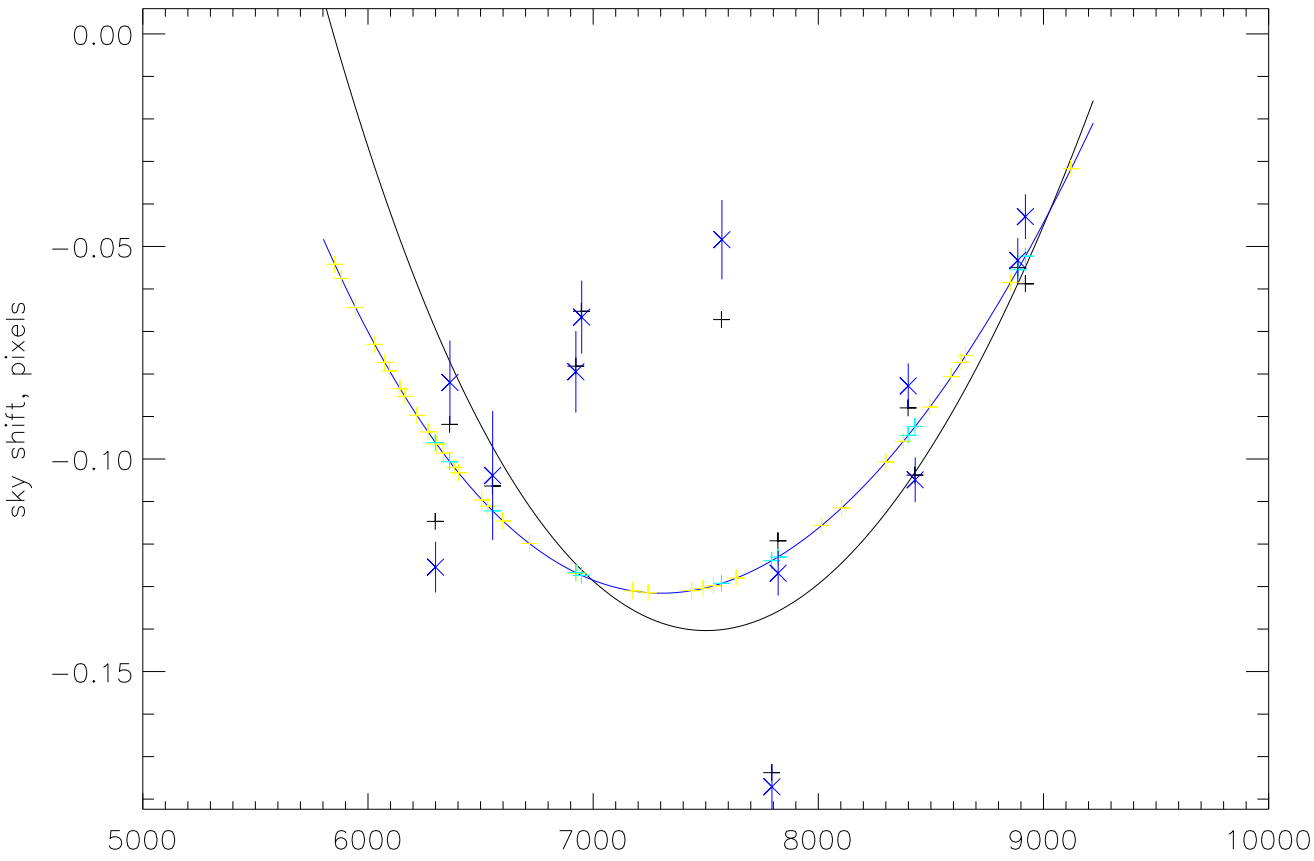

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

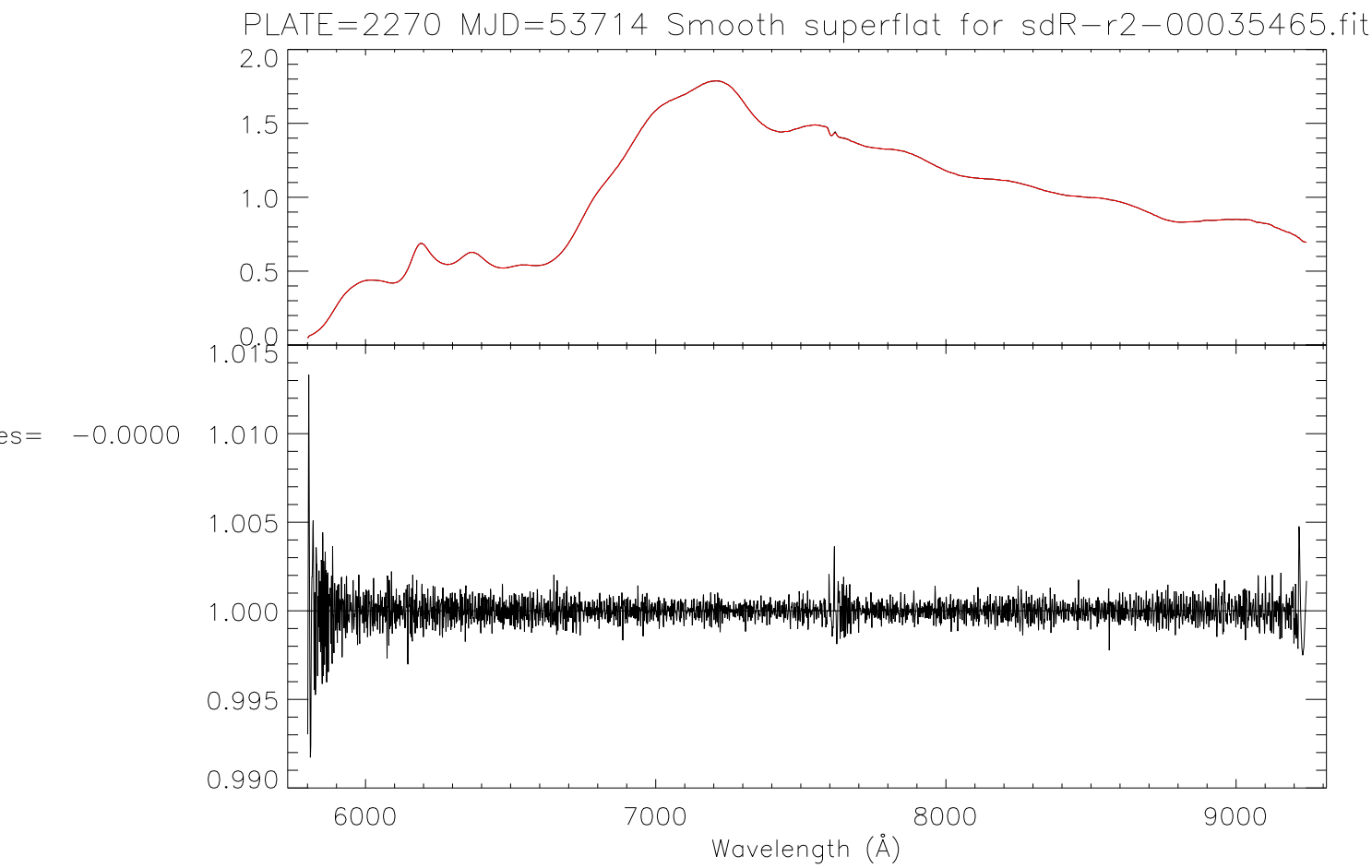

8430.1700
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

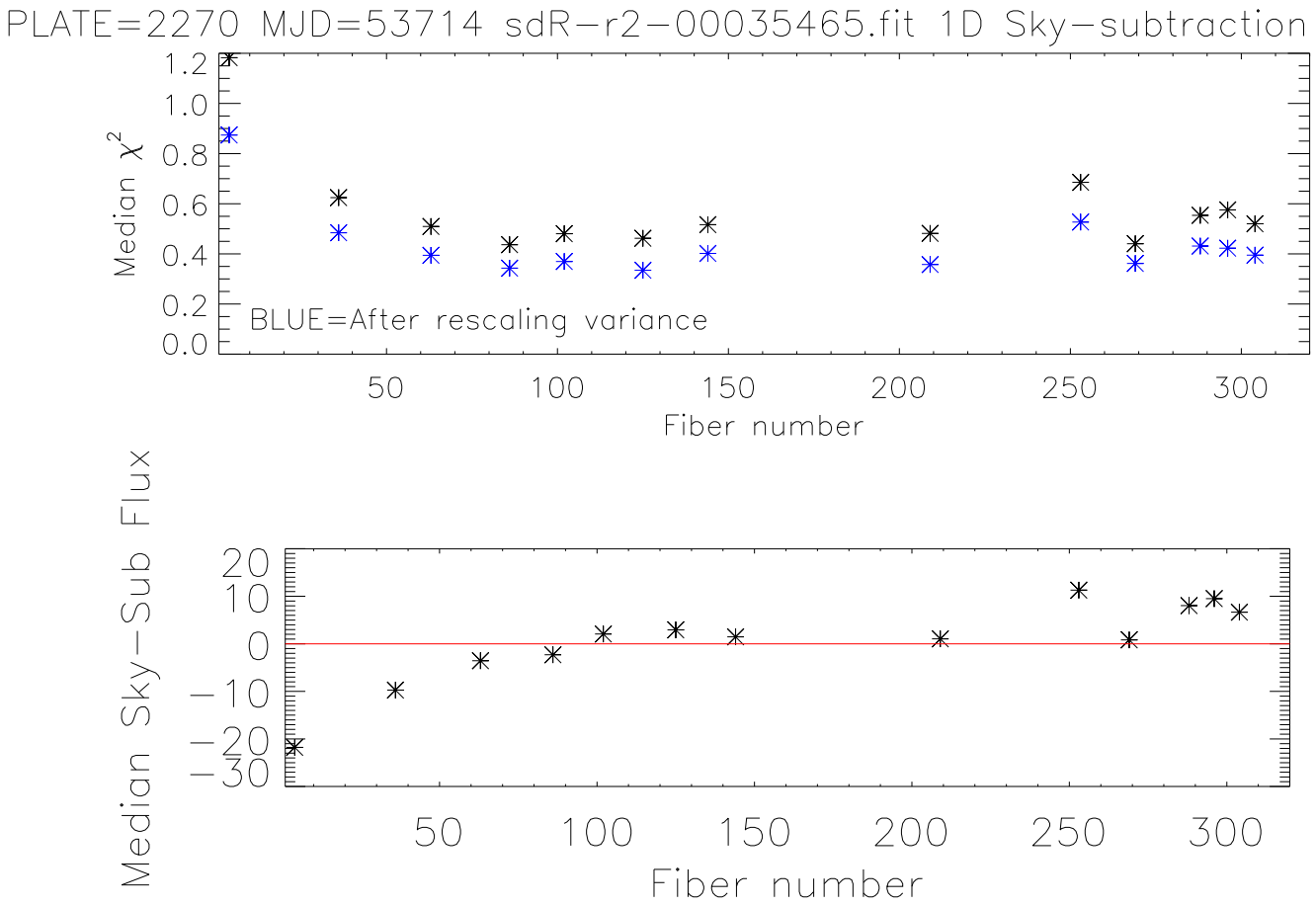

8885.8300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

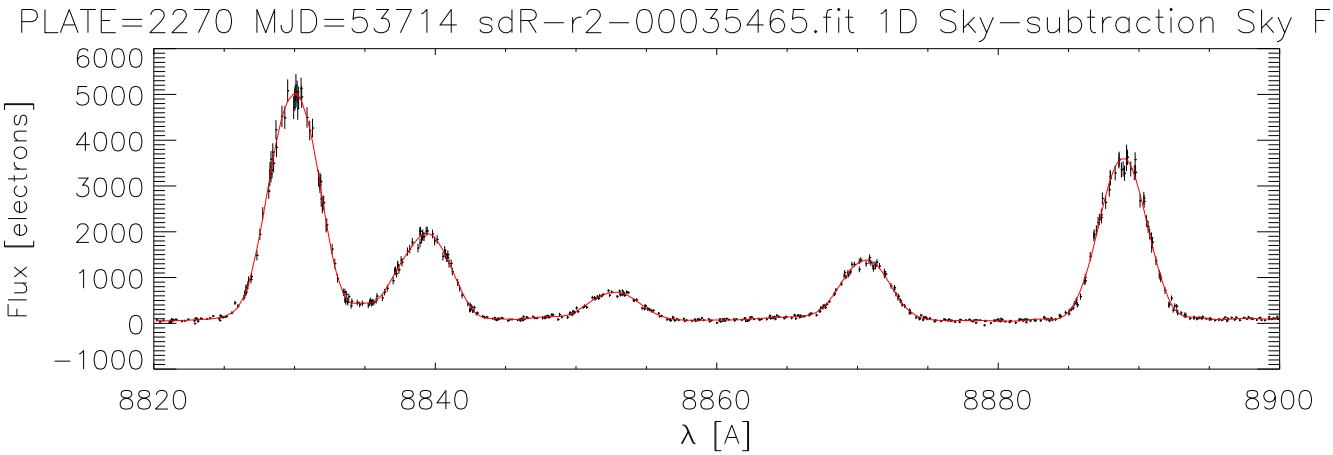

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

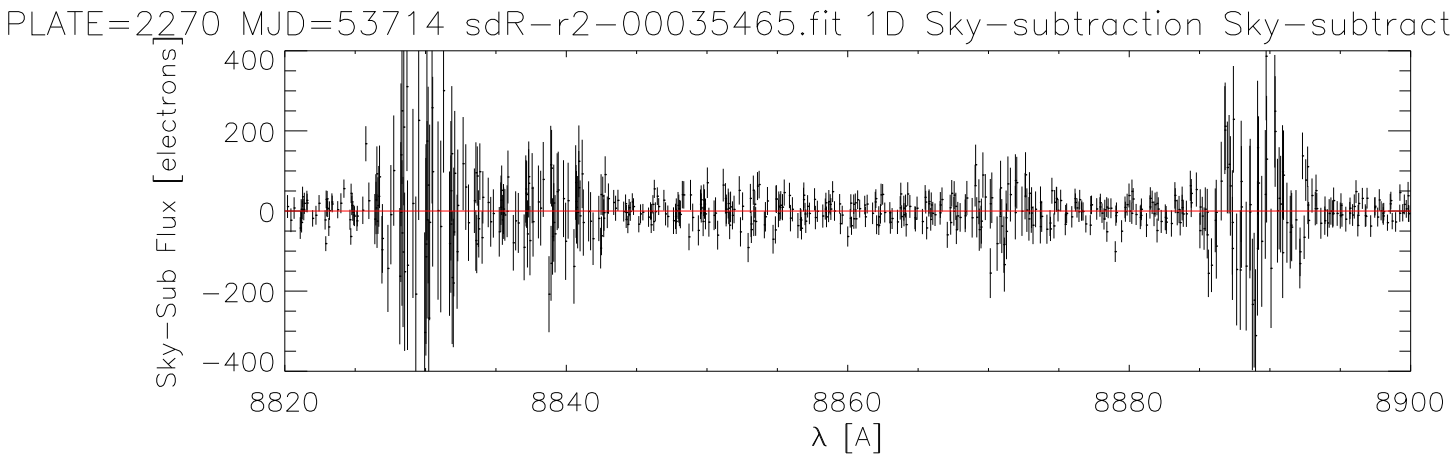

6300.3040
mfib1 17
mfib2 17
stdev 0.038
extra 0.03
6363.7760
mfib1 17
mfib2 17
stdev 0.031
extra 0.08
6553.6100
mfib1 17
mfib2 17
stdev 0.049
extra 0.10
6923.2100
mfib1 17
mfib2 17
stdev 0.035
extra 0.08
6949.0300
mfib1 17
mfib2 17
stdev 0.027
extra 0.07
7571.7500
mfib1 17
mfib2 17
stdev 0.037
extra 0.05
7794.1200
mfib1 16
mfib2 16
stdev 0.013
extra 0.18
7821.5100
mfib1 16
mfib2 16
stdev 0.022
extra 0.43
8399.1600
mfib1 17
mfib2 17
stdev 0.016
extra 0.08
8430.1700
mfib1 17
mfib2 17
stdev 0.019
extra 0.10
8885.8300
mfib1 17
mfib2 17
stdev 0.022
extra 0.05
8919.6100
mfib1 17
mfib2 17
stdev 0.024
extra 0.04
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

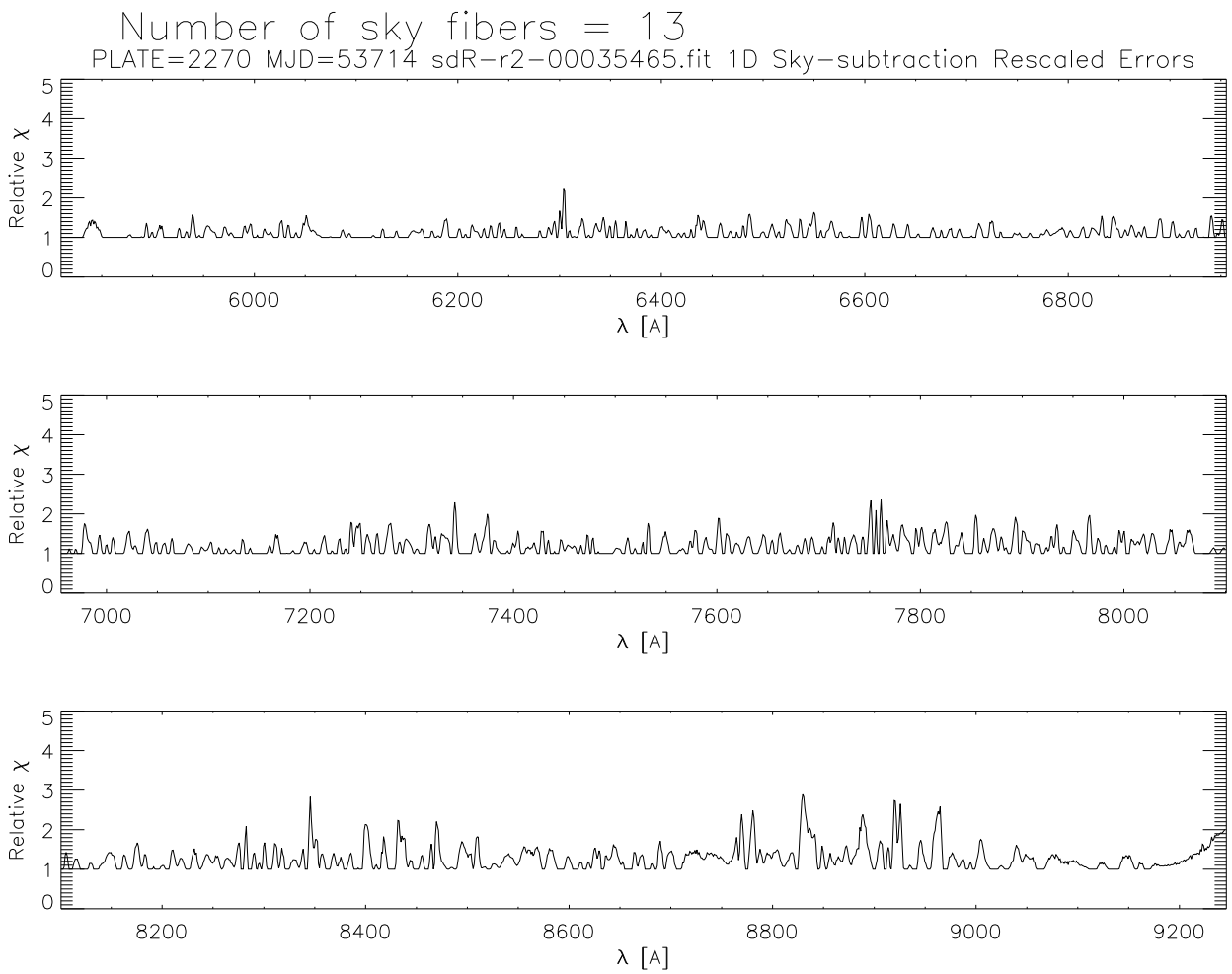

0.00
−0.05
−0.10
−0.15
sky shift, pixels
5000
6000
7000
8000
9000
10000

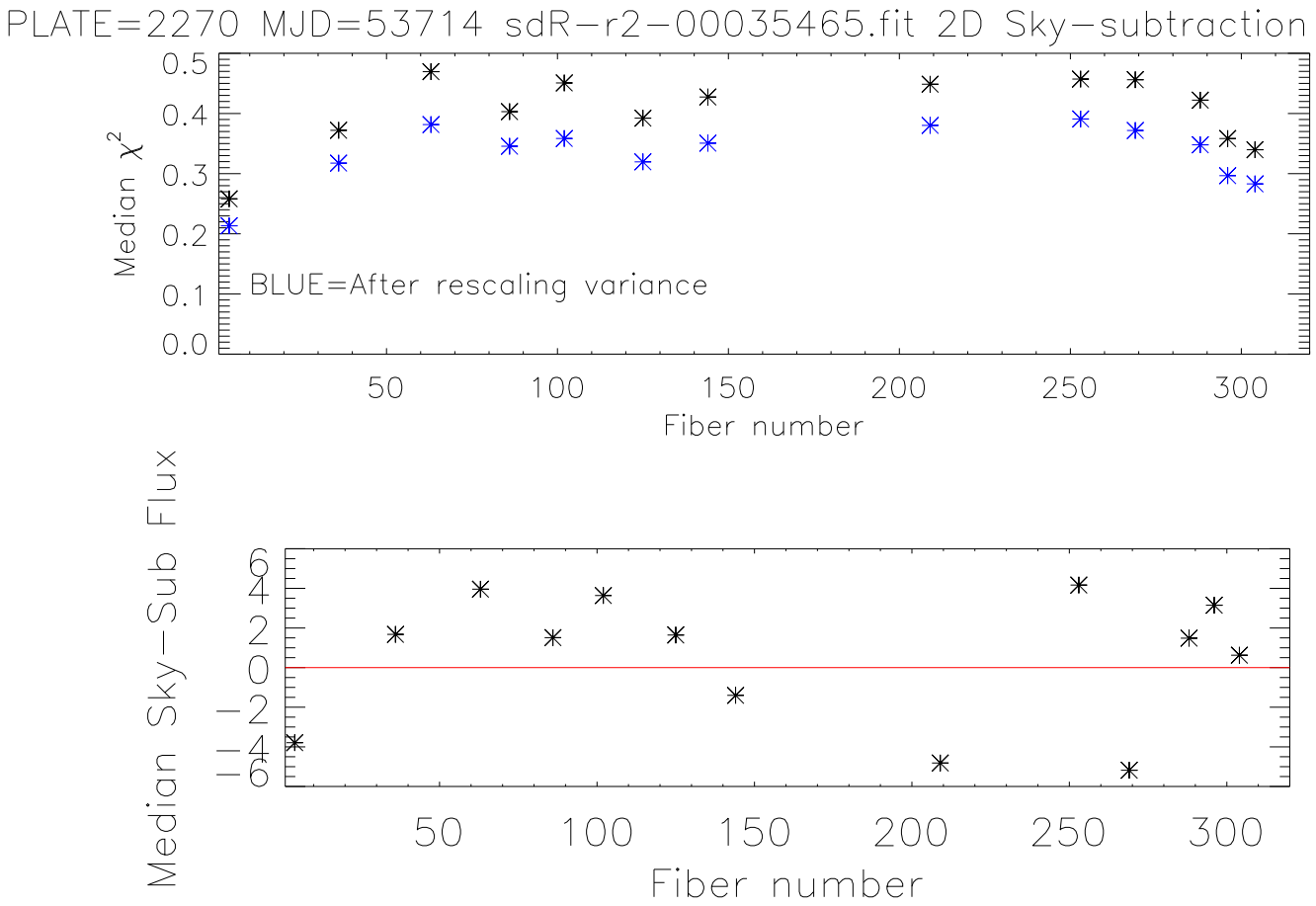

PLATE=2270 MJD=53714 Smooth superflat for sdR-r2-00035465.fit
2.0
1.5
1.0
0.5
0.0
1.015
1.010
1.005
1.000
0.995
0.990
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

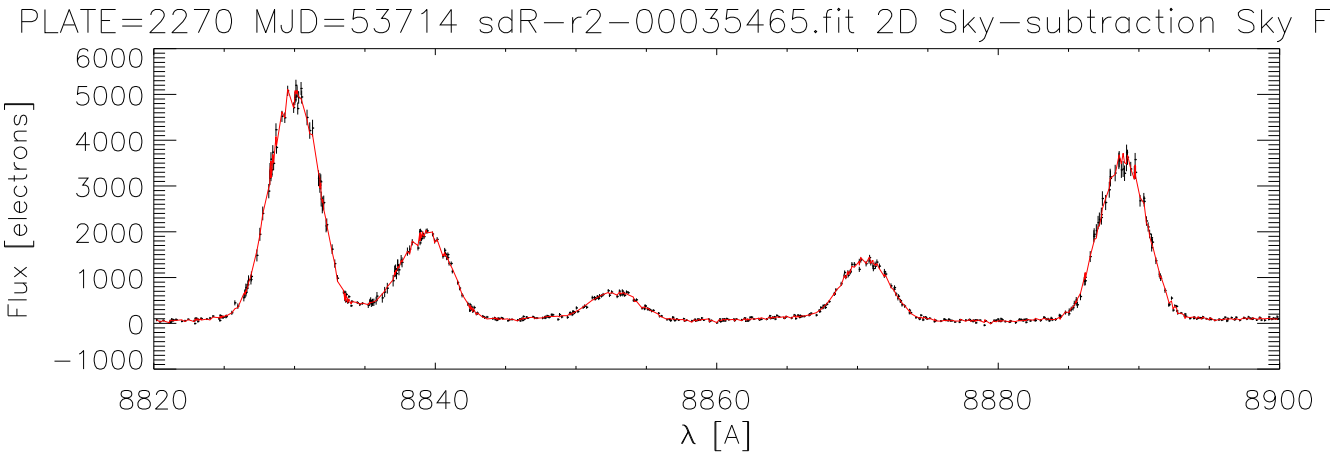

PLATE=2270 MJD=53714 sdR-r2-00035465.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

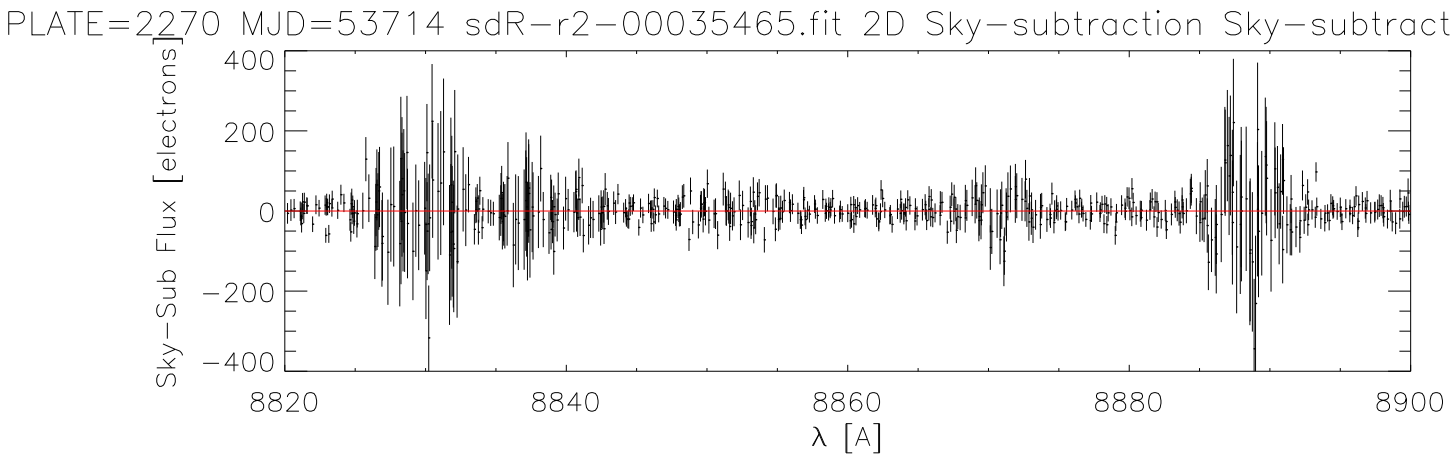

PLATE=2270 MJD=53714 sdR-r2-00035465.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
−1000
8820
8840
8860
8880
8900
λ [A]

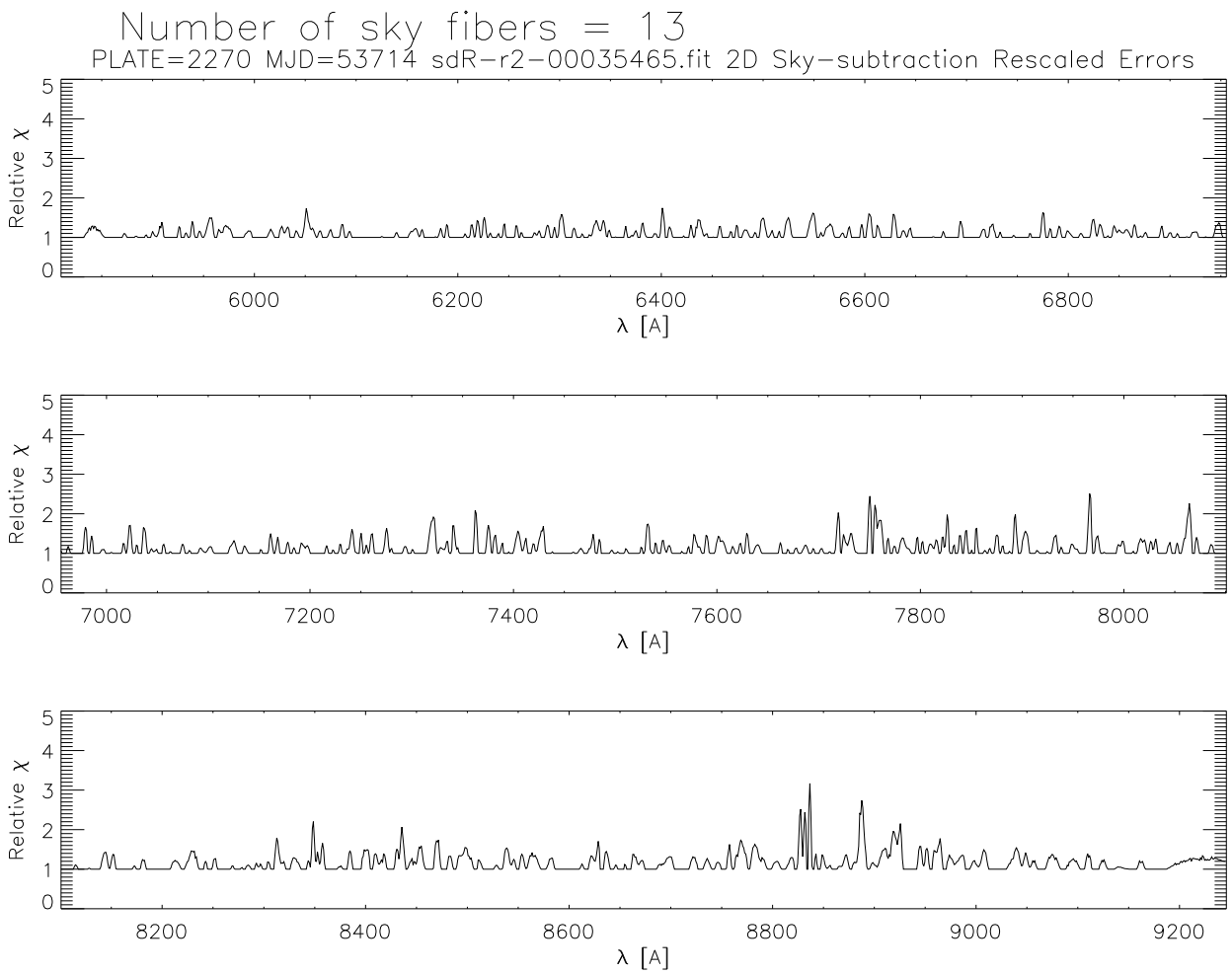

PLATE=2270 MJD=53714 sdR-r2-00035465.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
−200
−400
8820
8840
8860
8880
8900
λ [A]

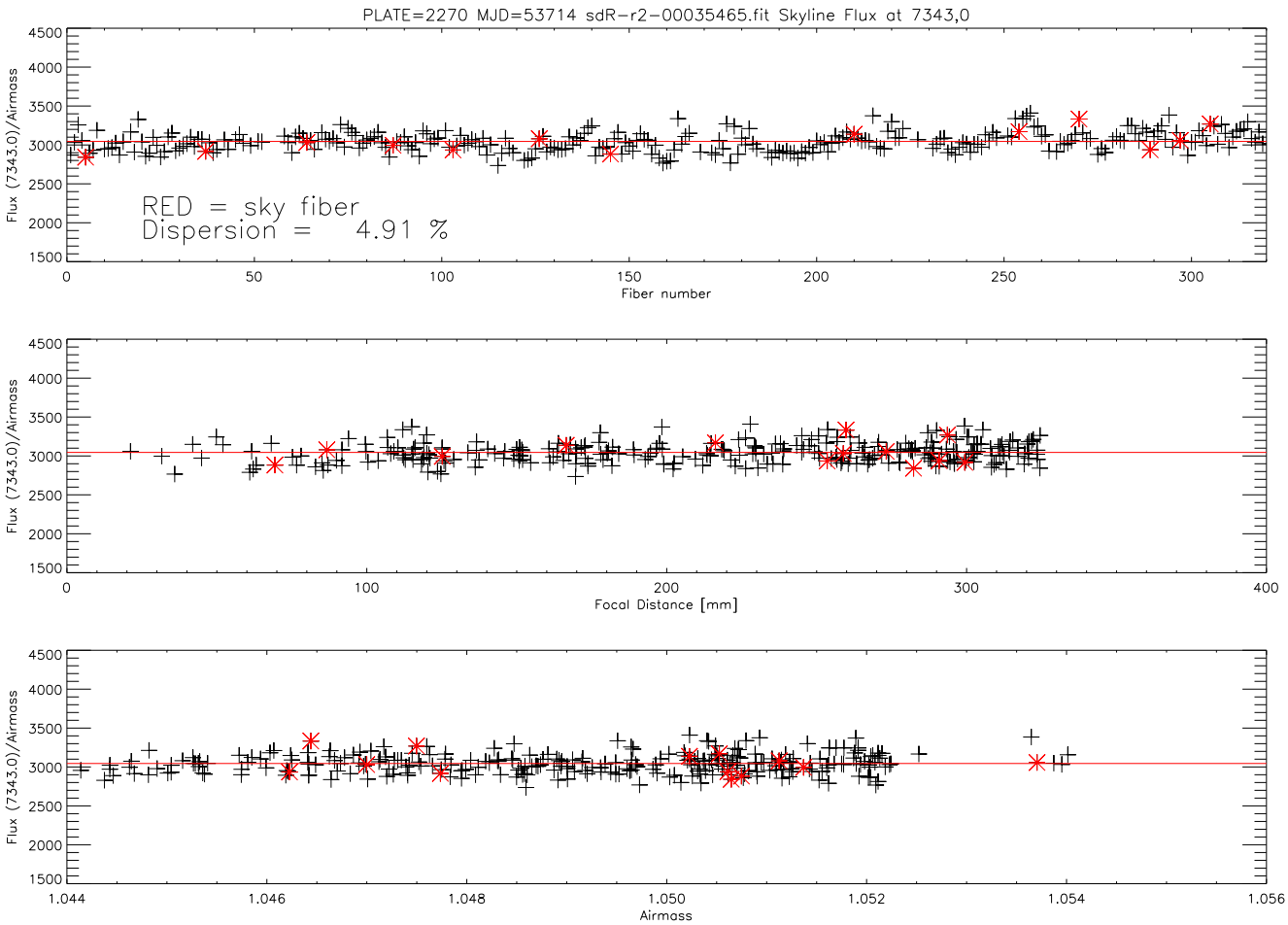

Number of sky fibers = 13
PLATE=2270 MJD=53714 sdR-r2-00035465.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

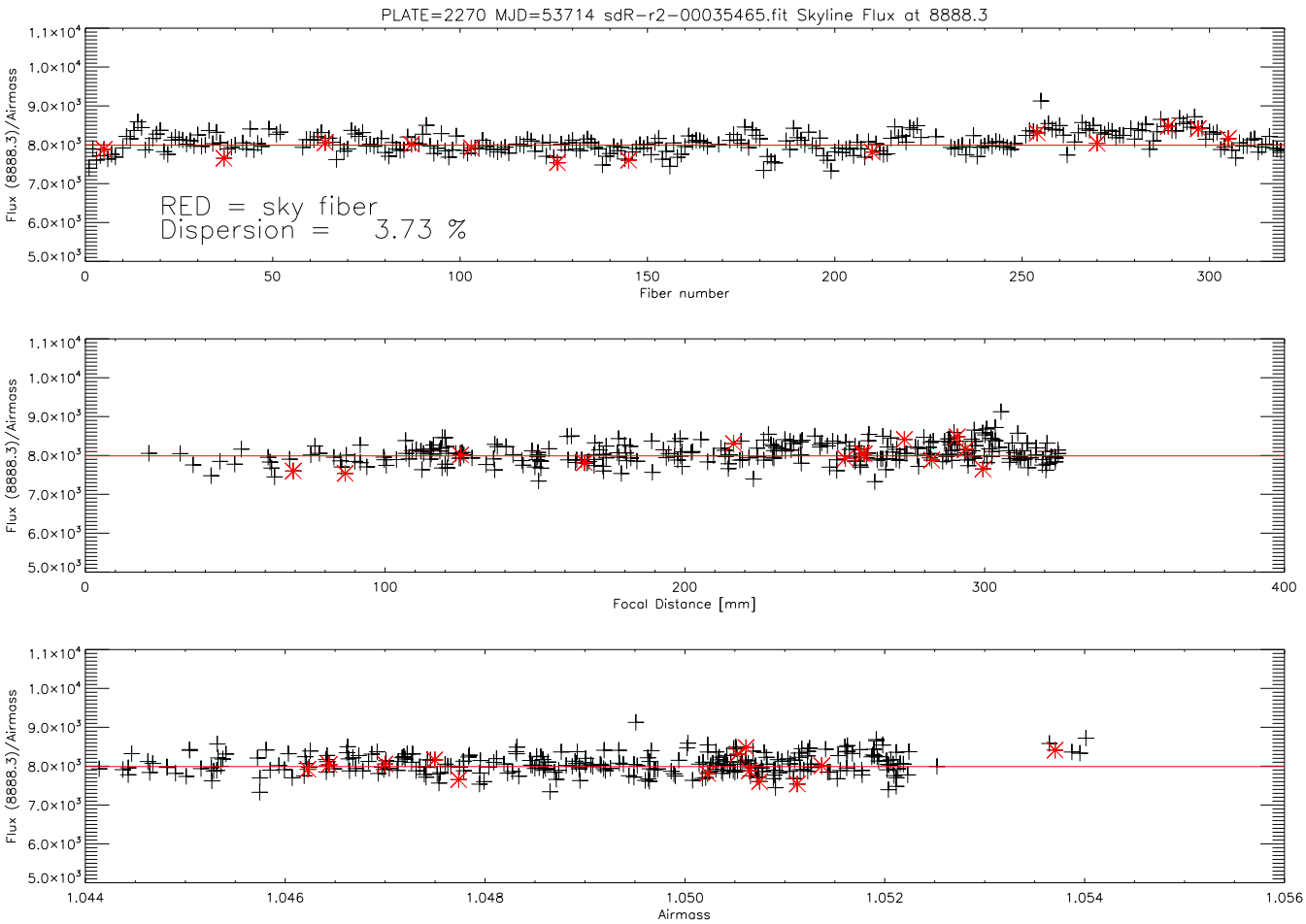

PLATE=2270 MJD=53714 sdR-r2-00035465.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number


PLATE=2270 MJD=53714 sdR-r2-00035465.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]


PLATE=2270 MJD=53714 sdR-r2-00035465.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]


Number of sky fibers = 13
PLATE=2270 MJD=53714 sdR-r2-00035465.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=2270 MJD=53714 sdR-r2-00035465.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 4.91 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass


PLATE=2270 MJD=53714 sdR-r2-00035465.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.73 %
Fiber number
Focal Distance [mm]
Airmass