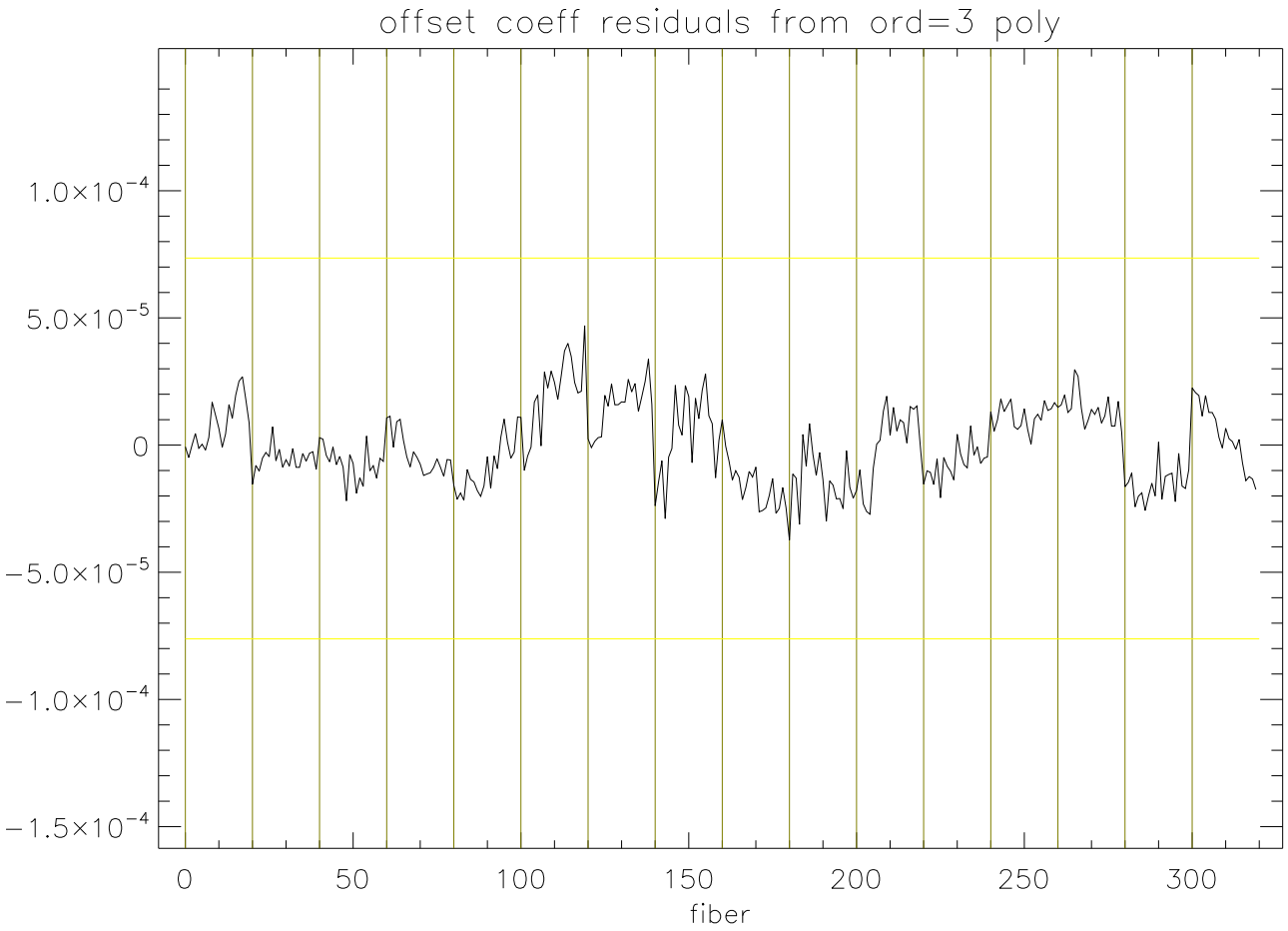
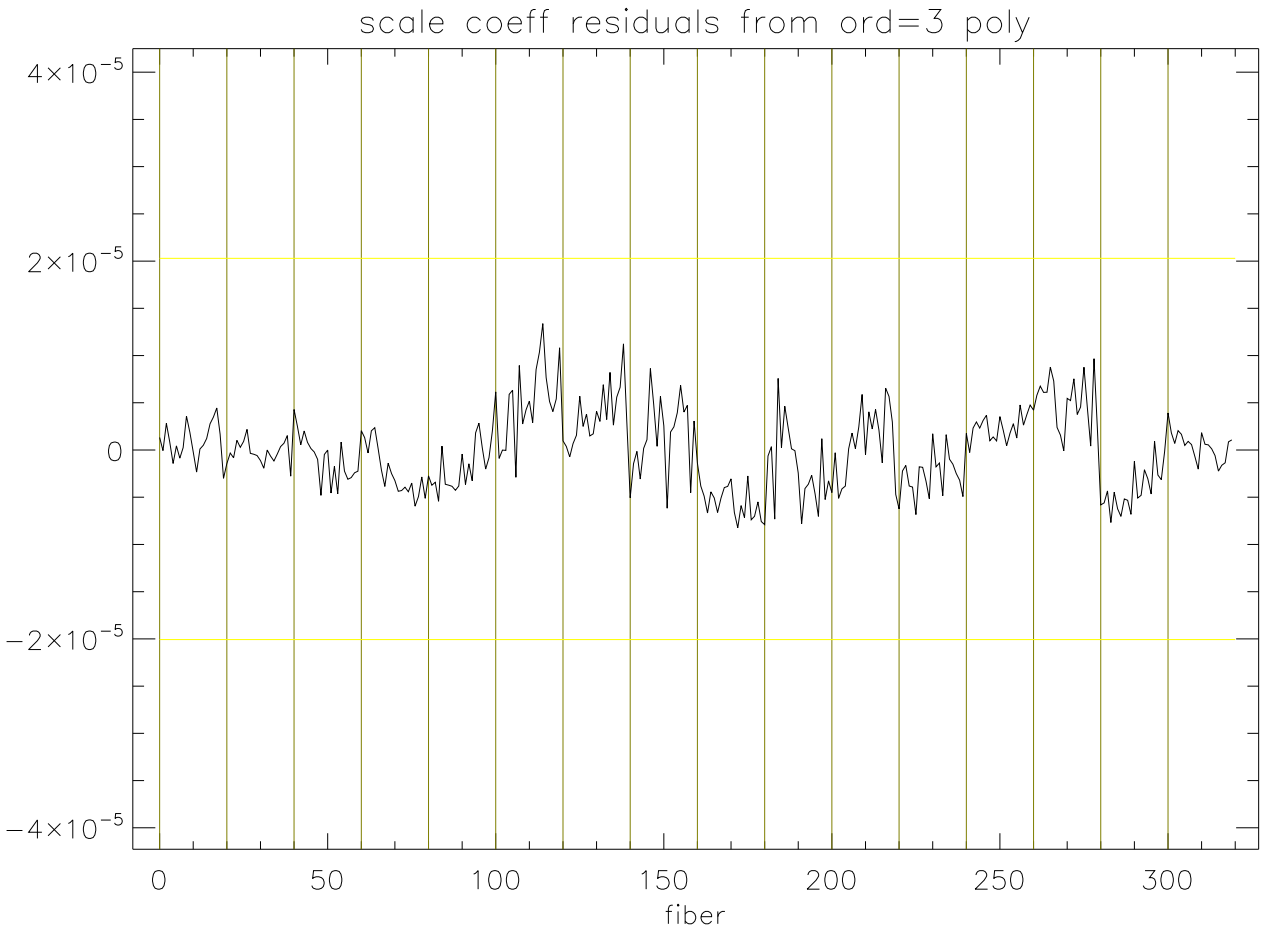
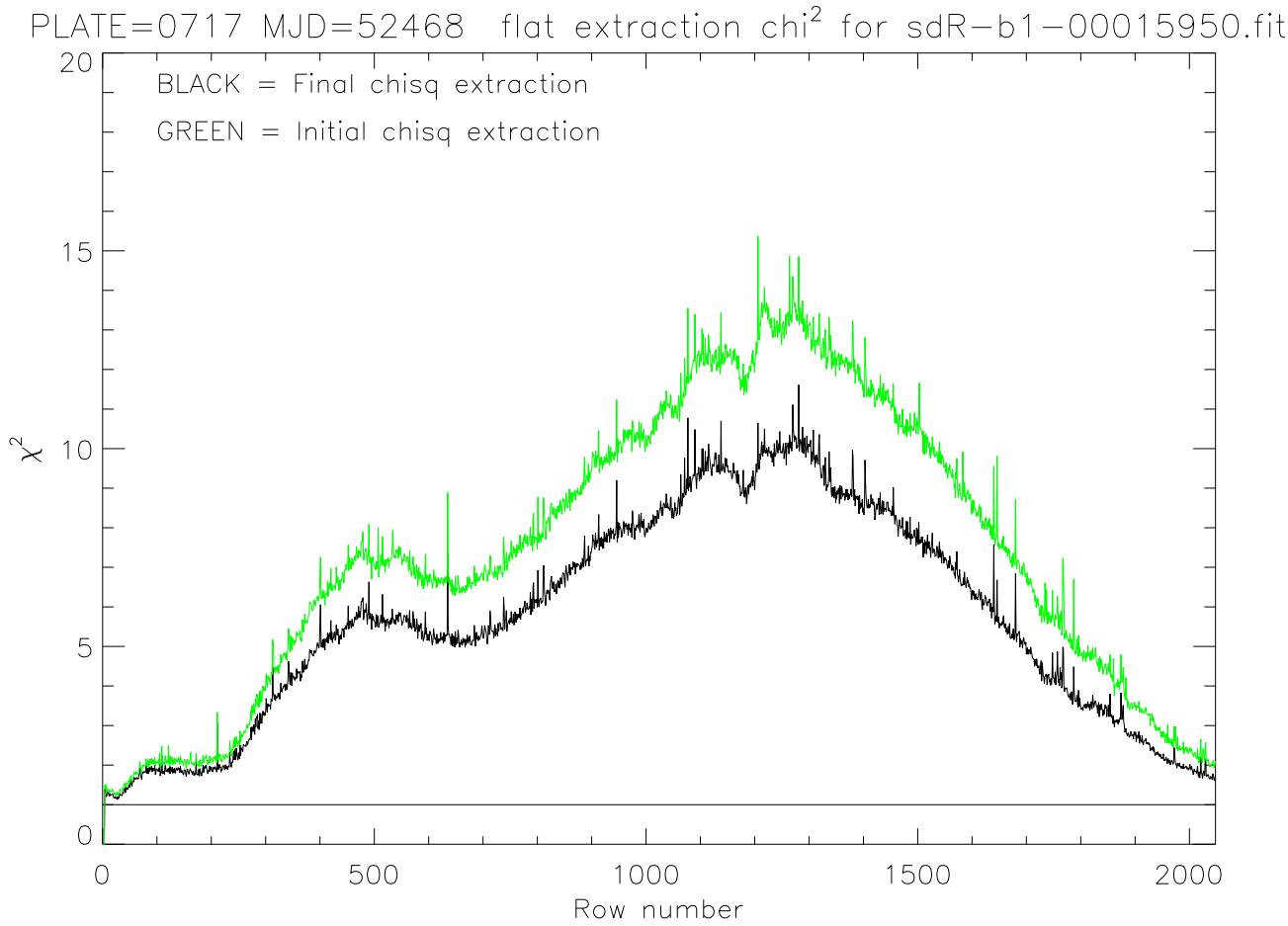
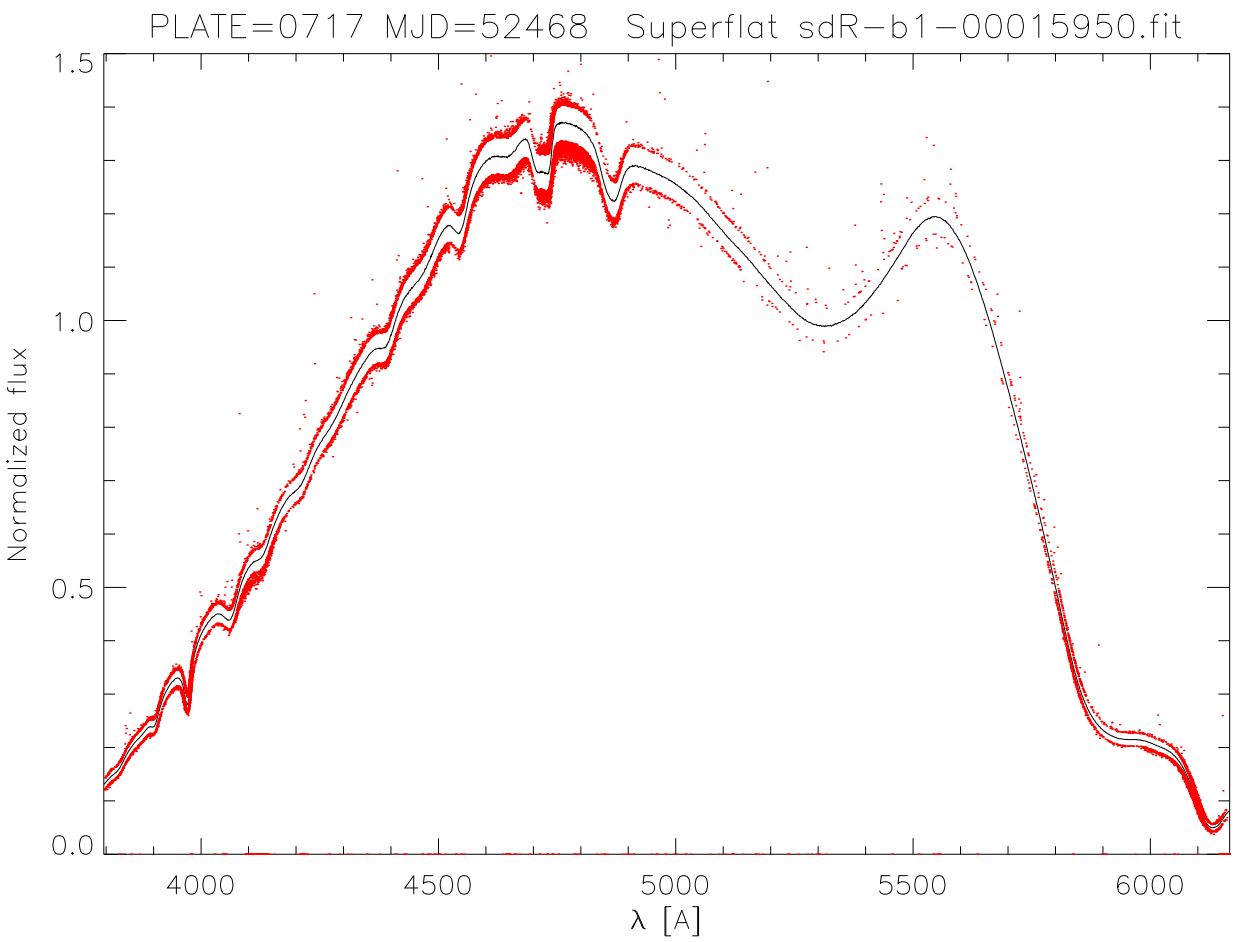
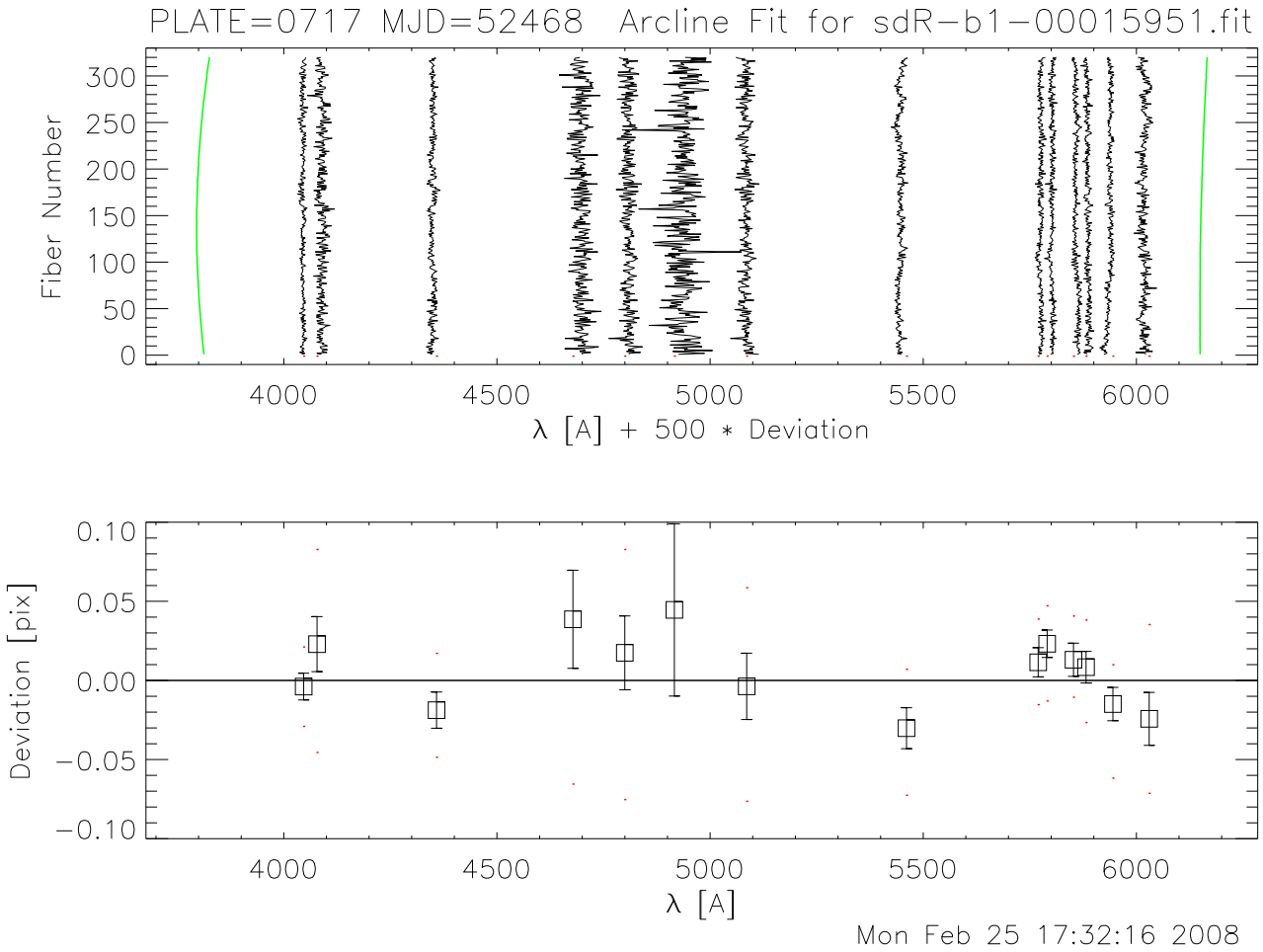

offset coeff residuals from ord=3 poly
1.0×10^-4
5.0×10^-5
0
−5.0×10^-5
−1.0×10^-4
−1.5×10^-4
0
50
100
150
200
250
300
fiber


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


PLATE=0717 MJD=52468 flat extraction chi^2 for sdR−b1−00015950.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
5
10
15
20
0
500
1000
1500
2000


PLATE=0717 MJD=52468 Superflat sdR-b1-00015950.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]


PLATE=0717 MJD=52468 Arcline Fit for sdR-b1-00015951.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]
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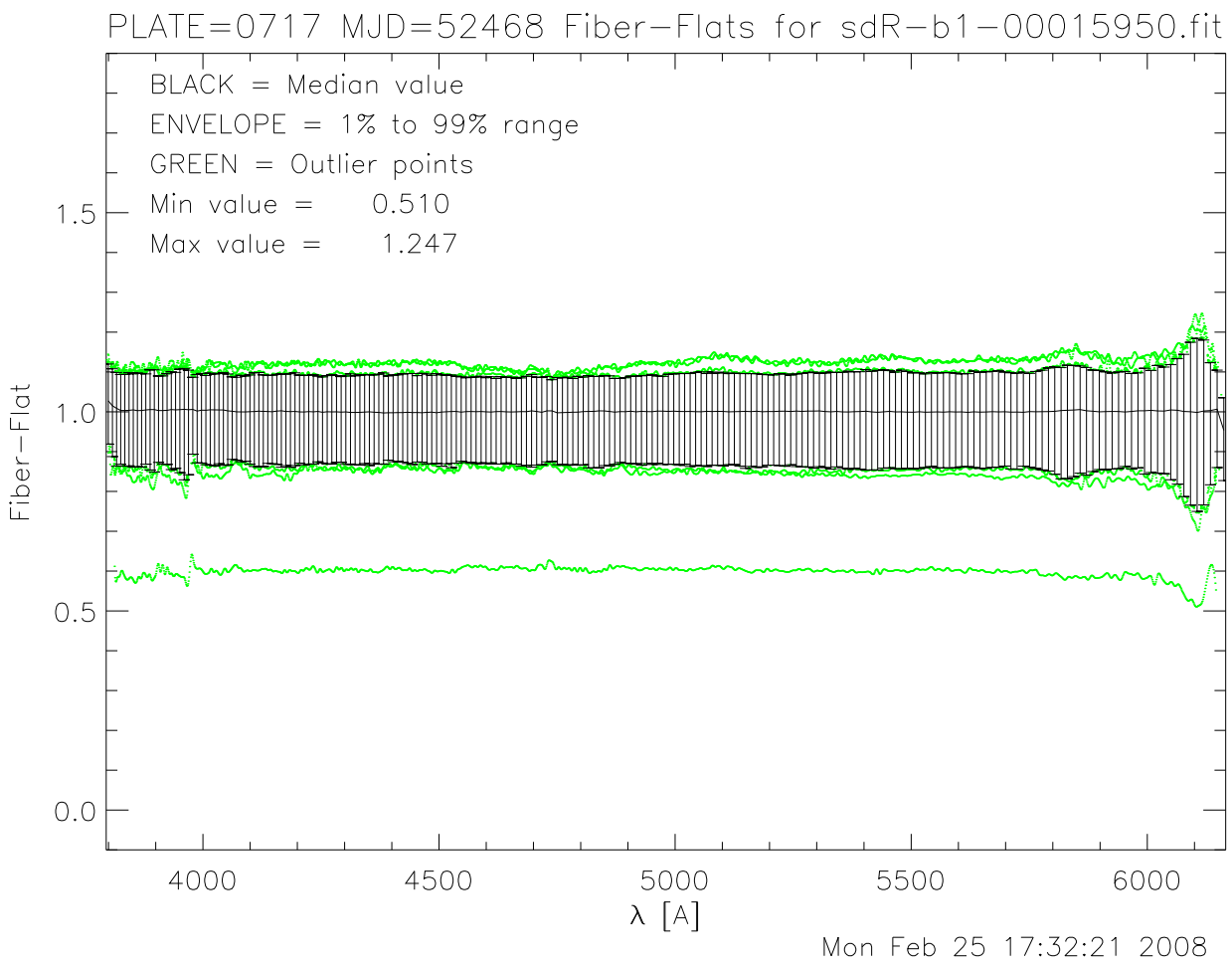
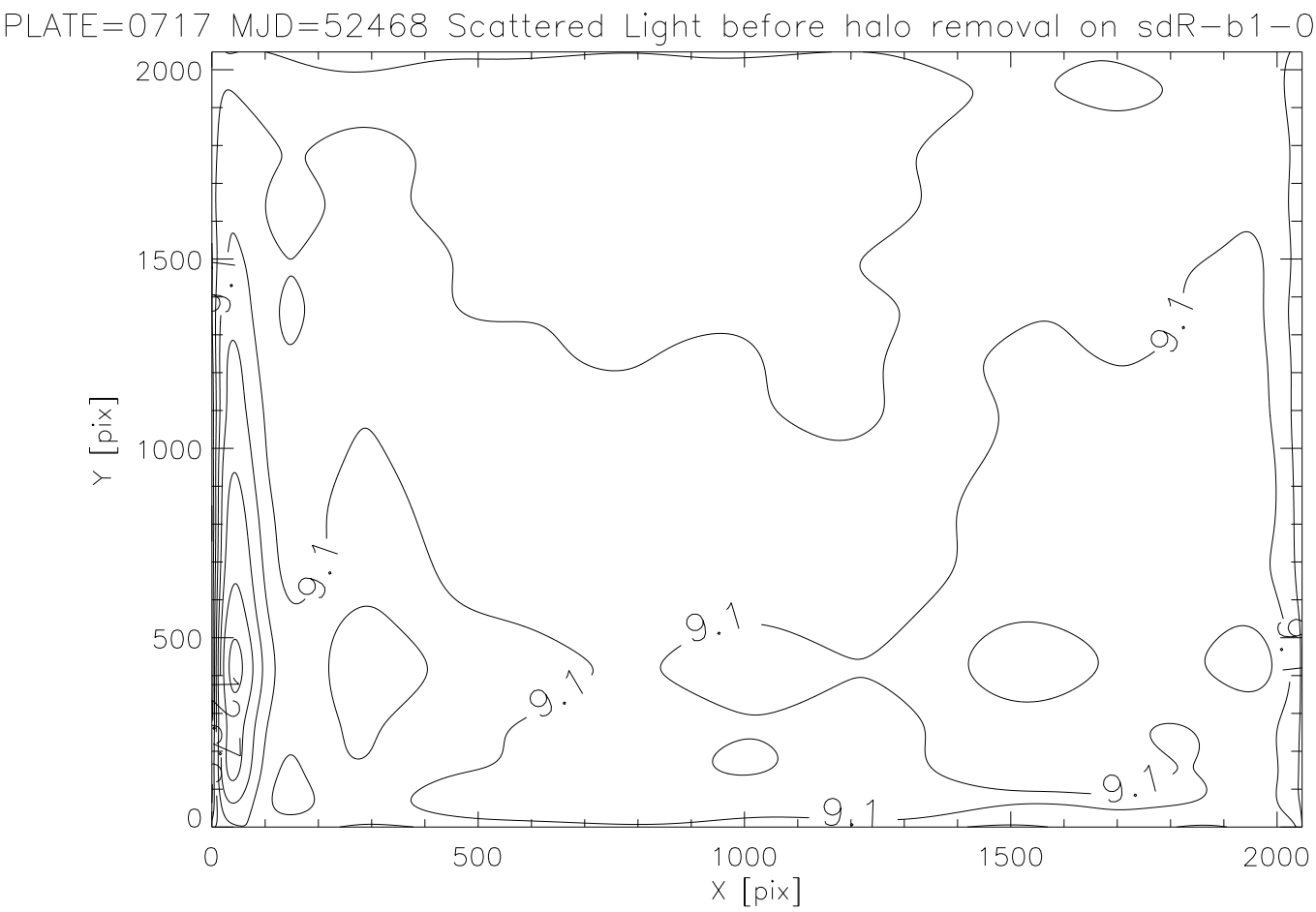
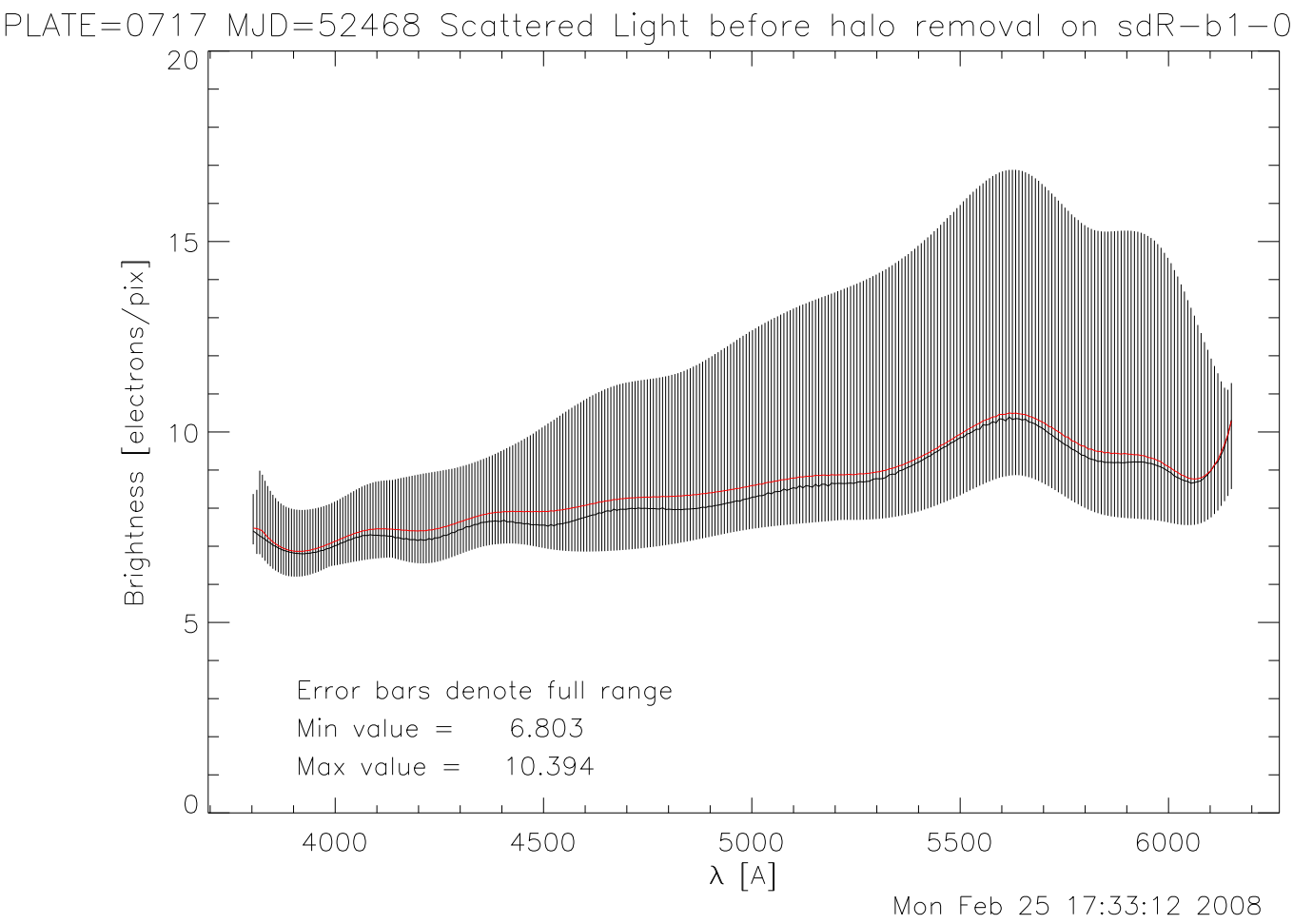

PLATE=0717 MJD=52468 Fiber-Flats for sdR-b1-00015950.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.510
Max value = 1.247
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 17:32:21 2008


PLATE=0717 MJD=52468 Scattered Light before halo removal on sdR−b1−00015952.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
9.1
9.1
9.1
9.1
9.1
9.1
9.1


PLATE=0717 MJD=52468 Scattered Light before halo removal on sdR-b1-00015952.f
Brightness [electrons/pix]
20
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 6.803
Max value = 10.394
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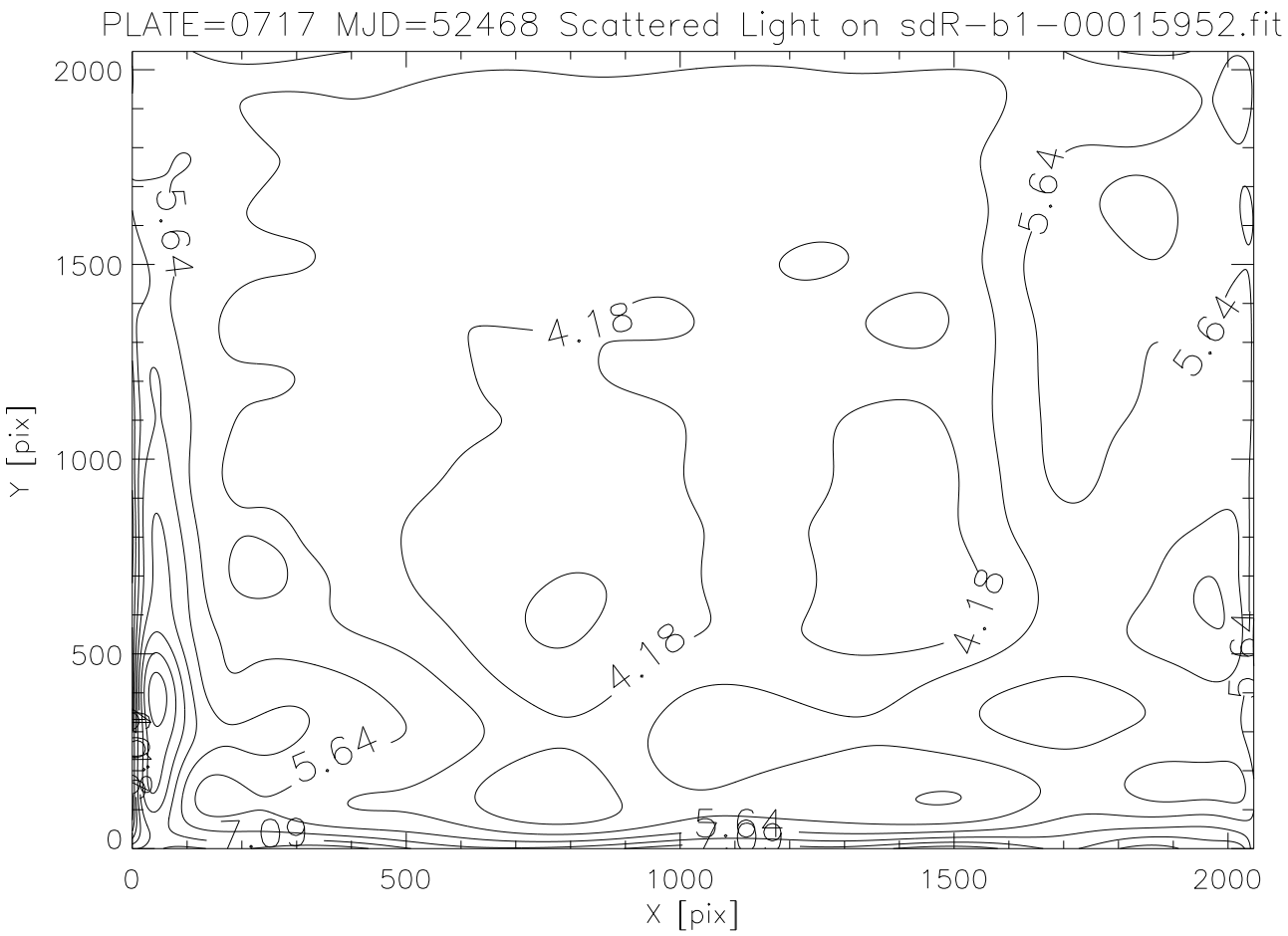
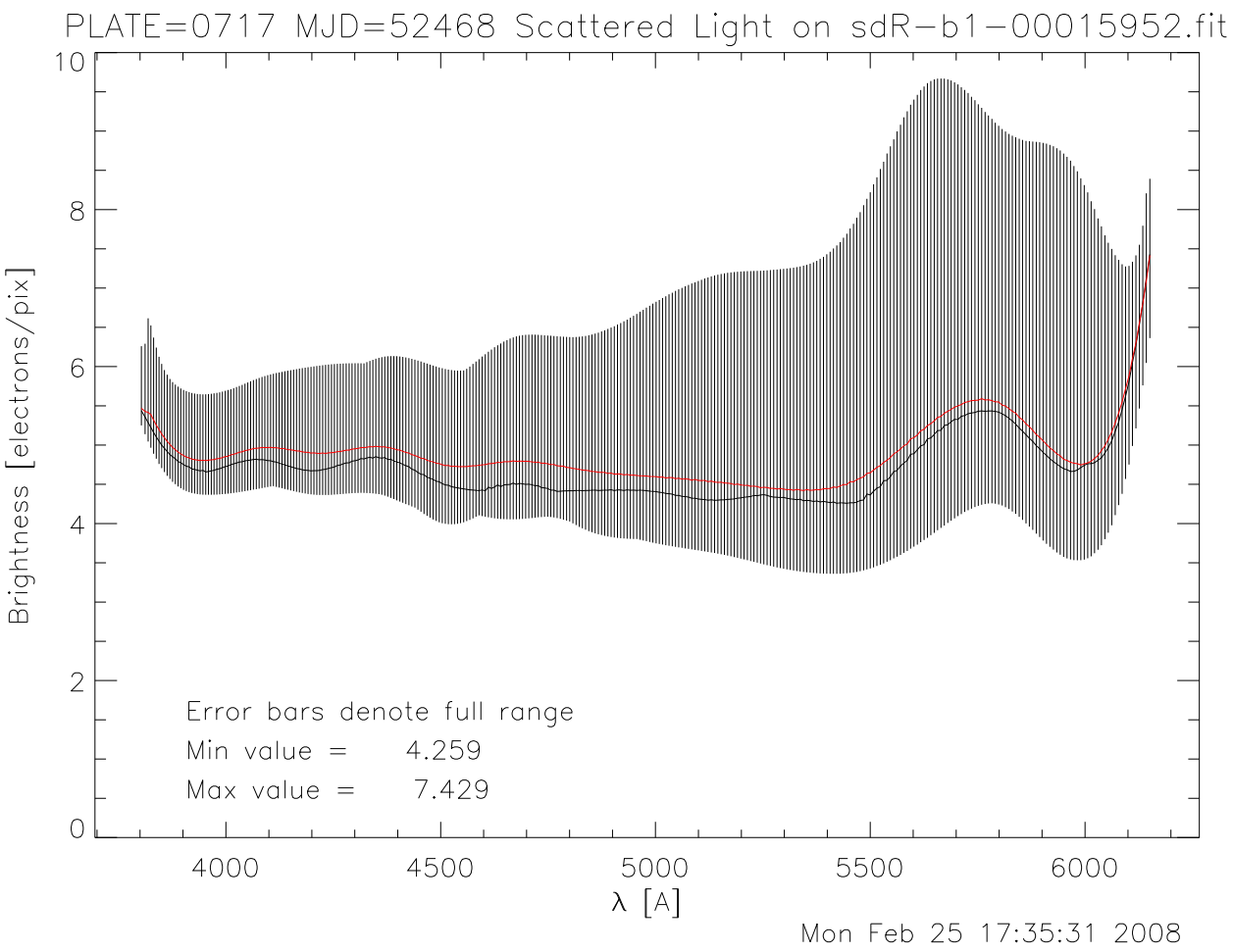
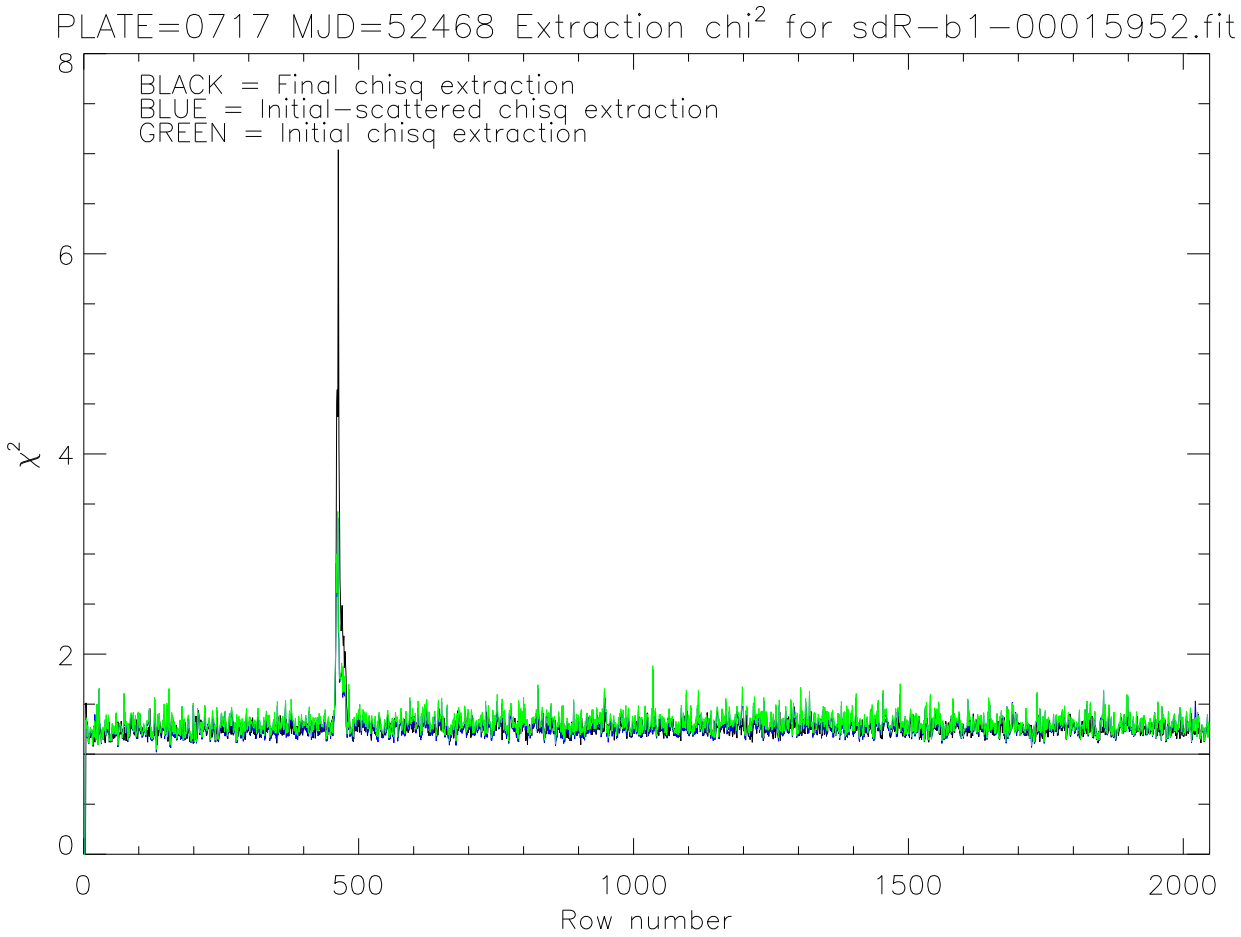
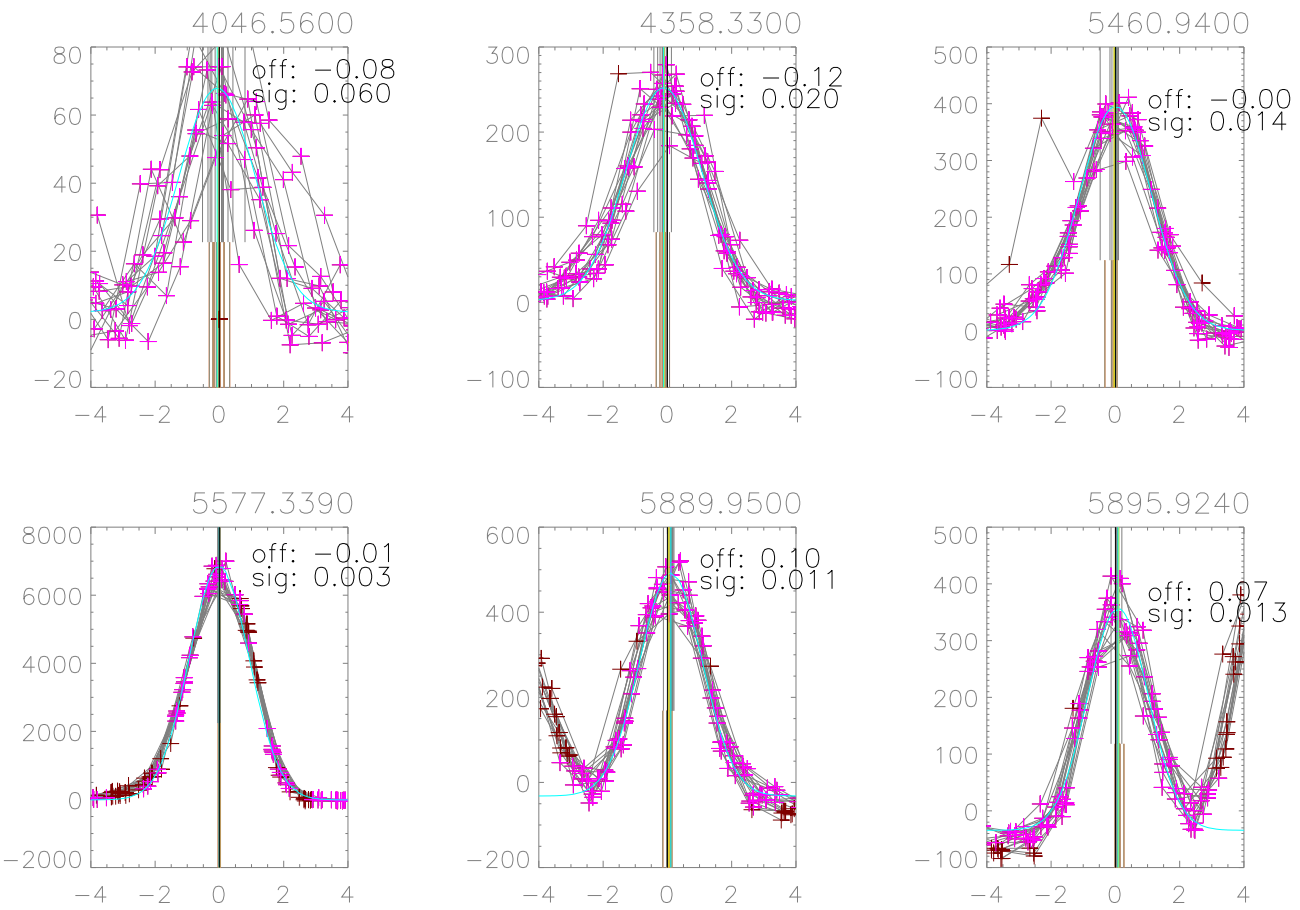
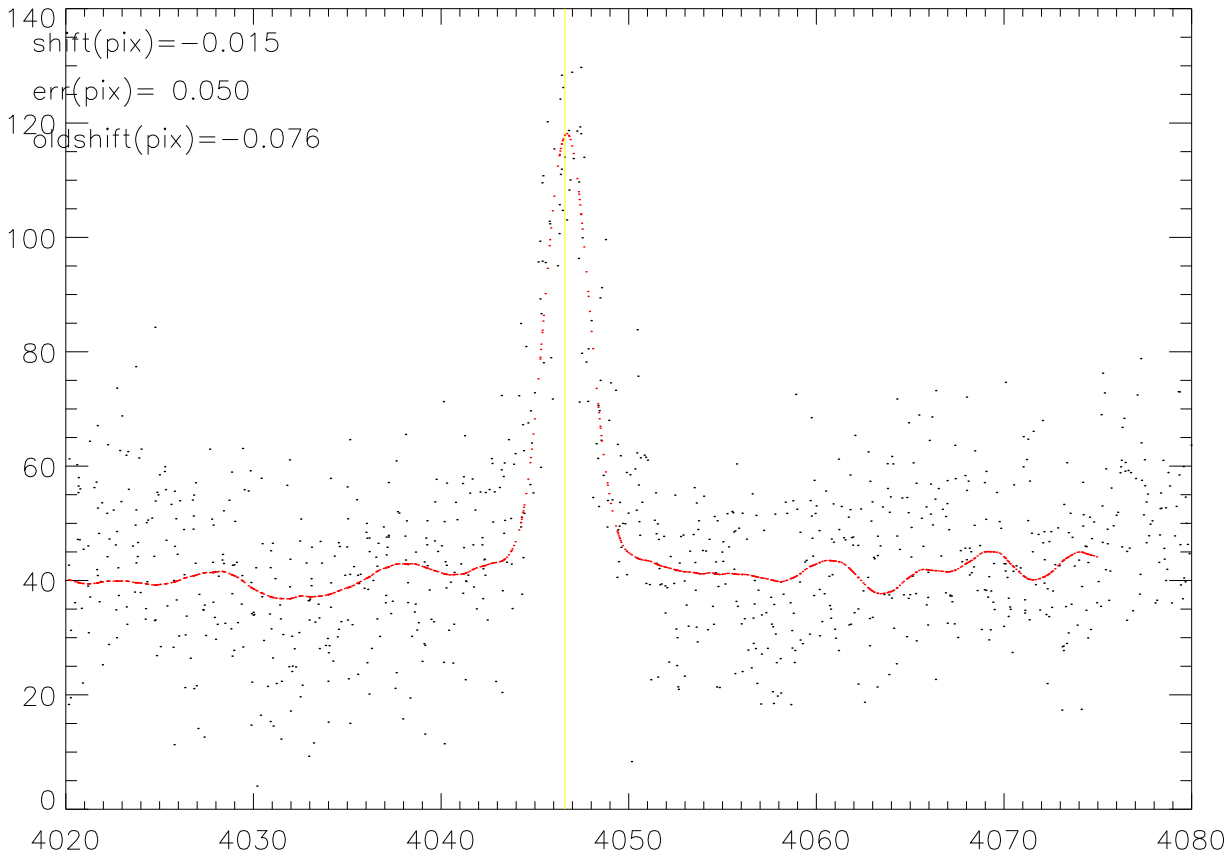
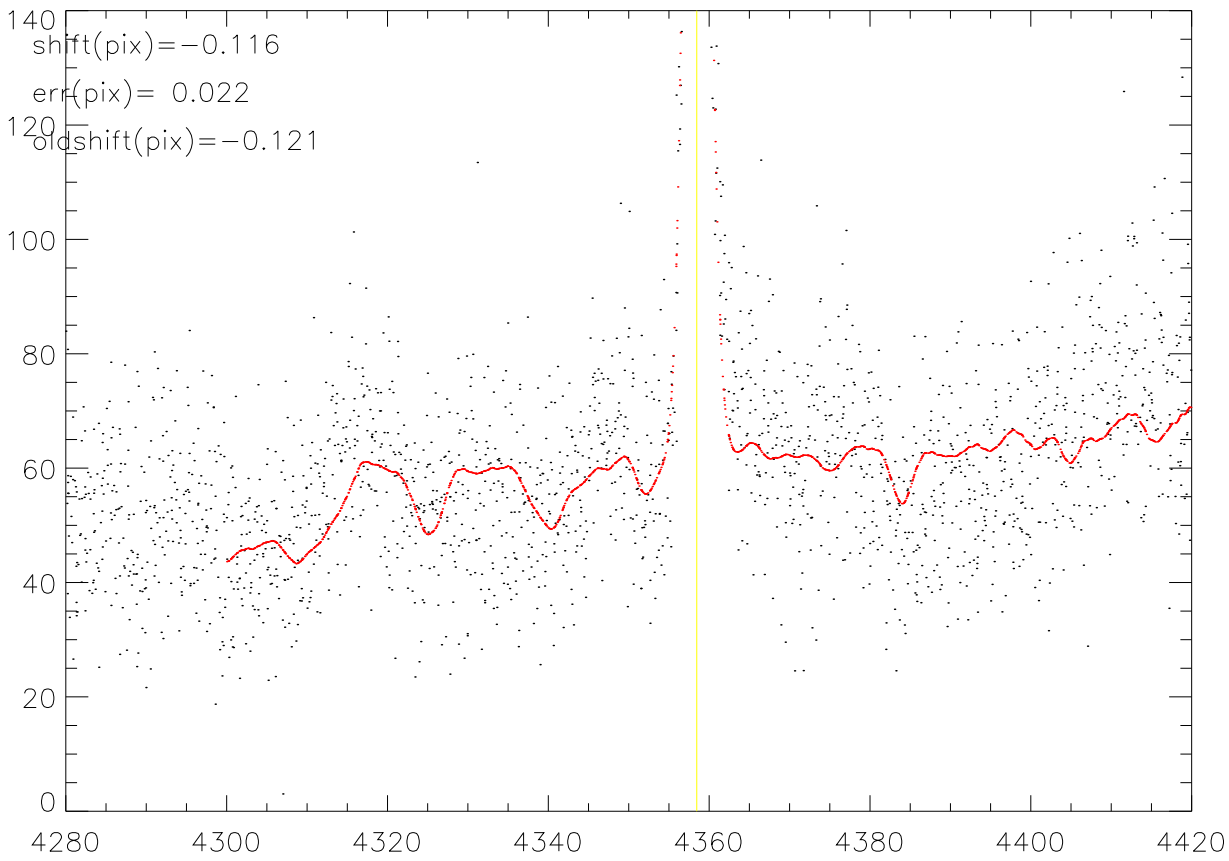

PLATE=0717 MJD=52468 Scattered Light on sdR-b1-00015952.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
5.64
4.18
7.09

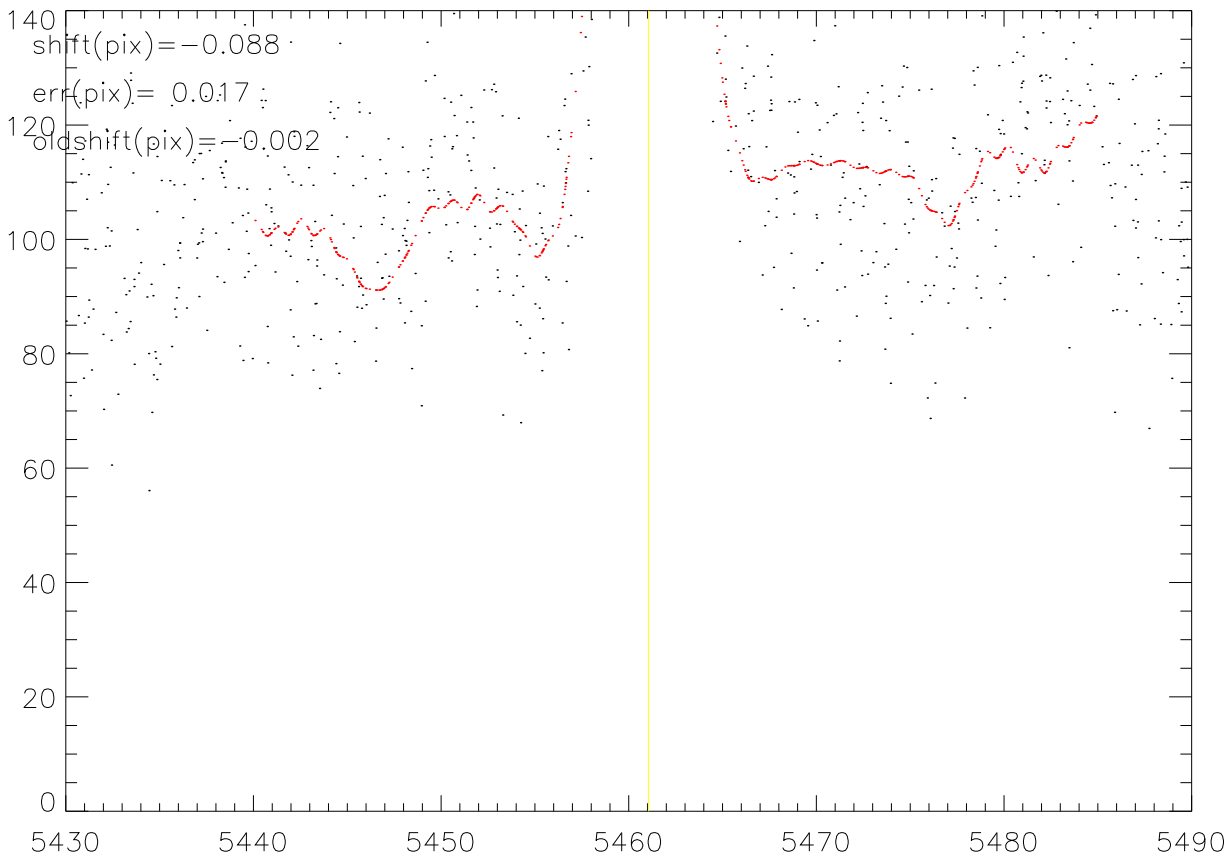

PLATE=0717 MJD=52468 Scattered Light on sdR-b1-00015952.fit
Brightness [electrons/pix]
10
8
6
4
2
0
Error bars denote full range
Min value = 4.259
Max value = 7.429
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 17:35:31 2008

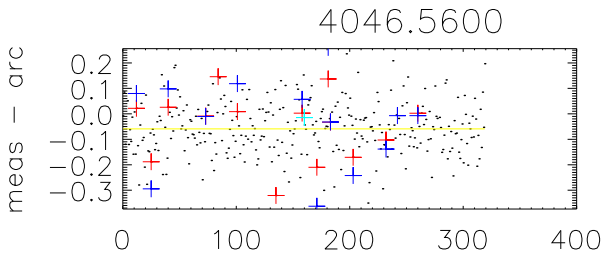

PLATE=0717 MJD=52468 Extraction chi^2 for sdR-b1-00015952.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

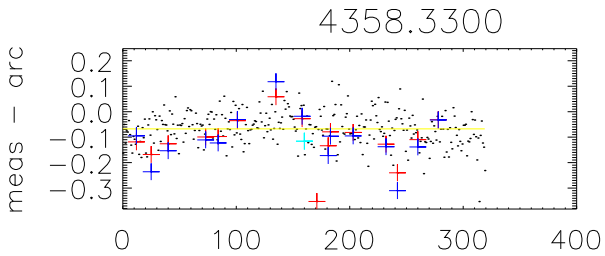

4046.5600
off: −0.08
sig: 0.060
4358.3300
off: −0.12
sig: 0.020
5460.9400
off: −0.00
sig: 0.014
5577.3390
off: −0.01
sig: 0.003
5889.9500
off: 0.10
sig: 0.011
5895.9240
off: 0.07
sig: 0.013

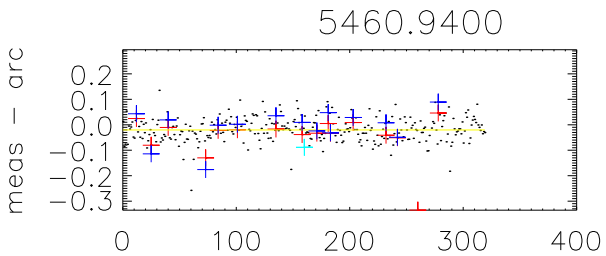

shift(pix)=−0.015
err(pix)= 0.050
oldshift(pix)=−0.076
140
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

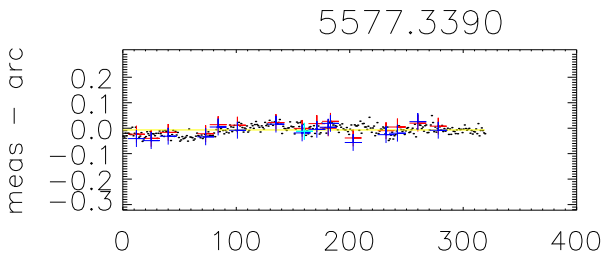

shift(pix)=−0.116
err(pix)= 0.022
oldshift(pix)=−0.121
140
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

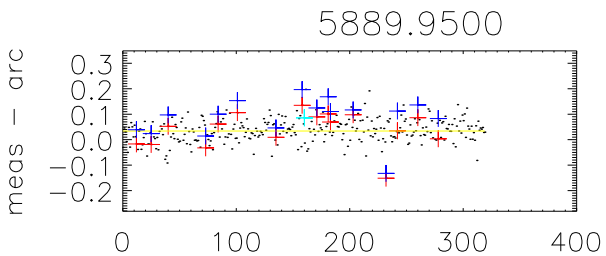

shift(pix)=−0.088
err(pix)= 0.017
oldshift(pix)=−0.002
140
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

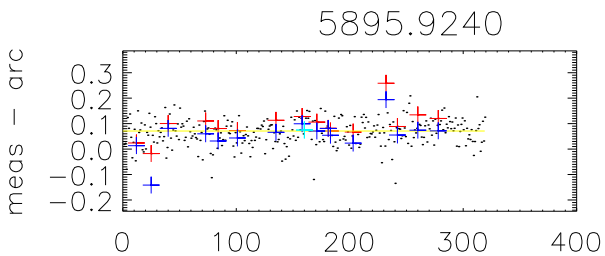

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

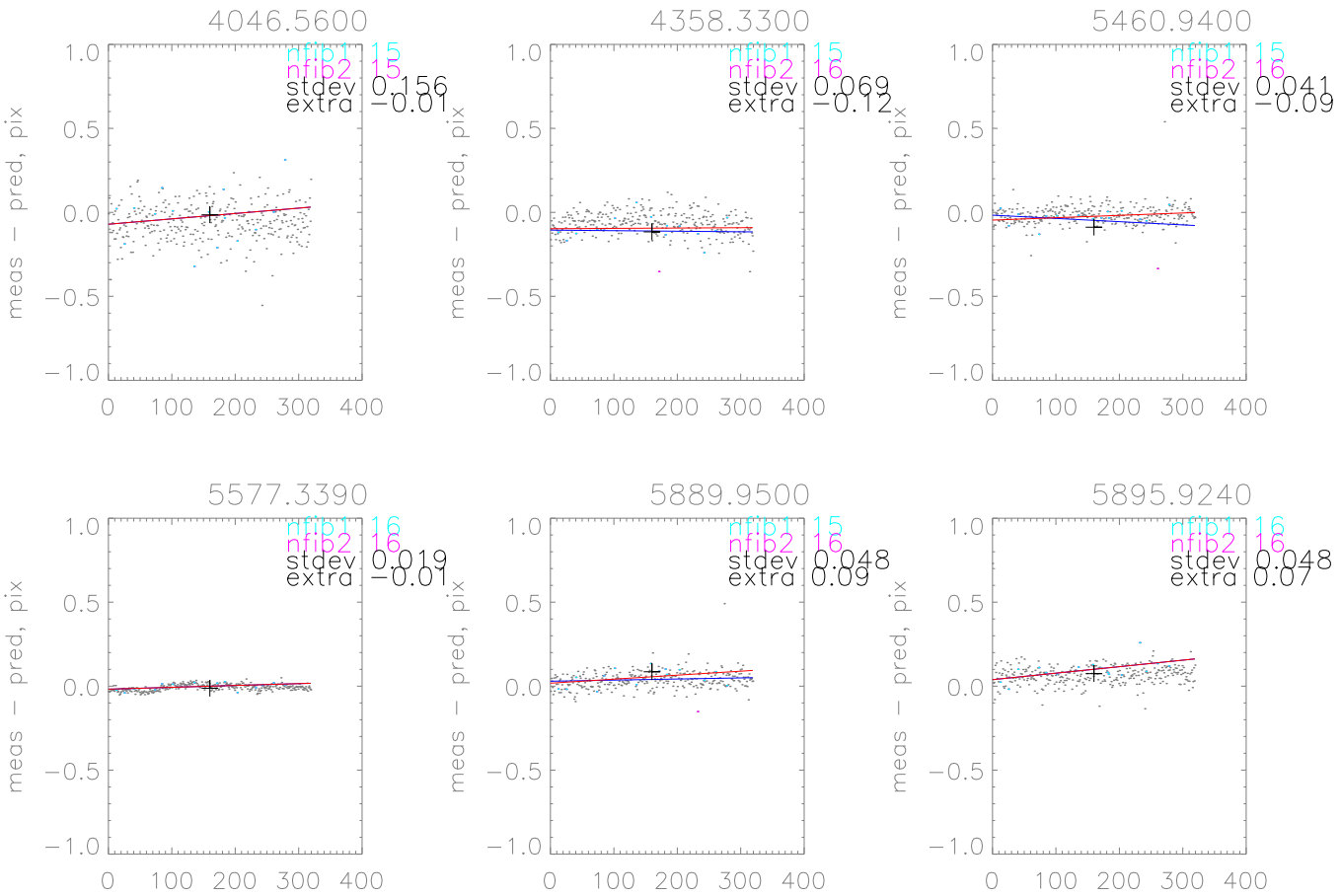

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

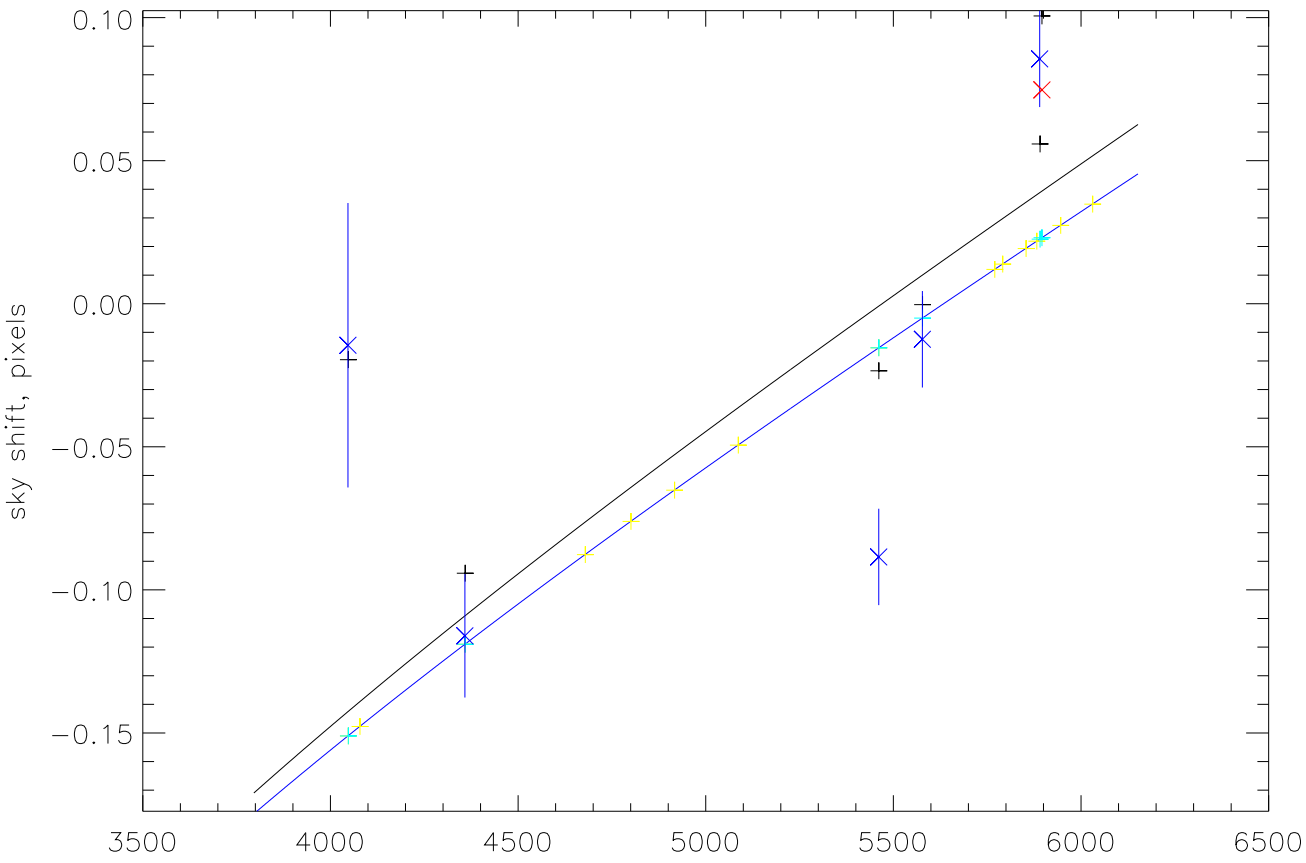

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

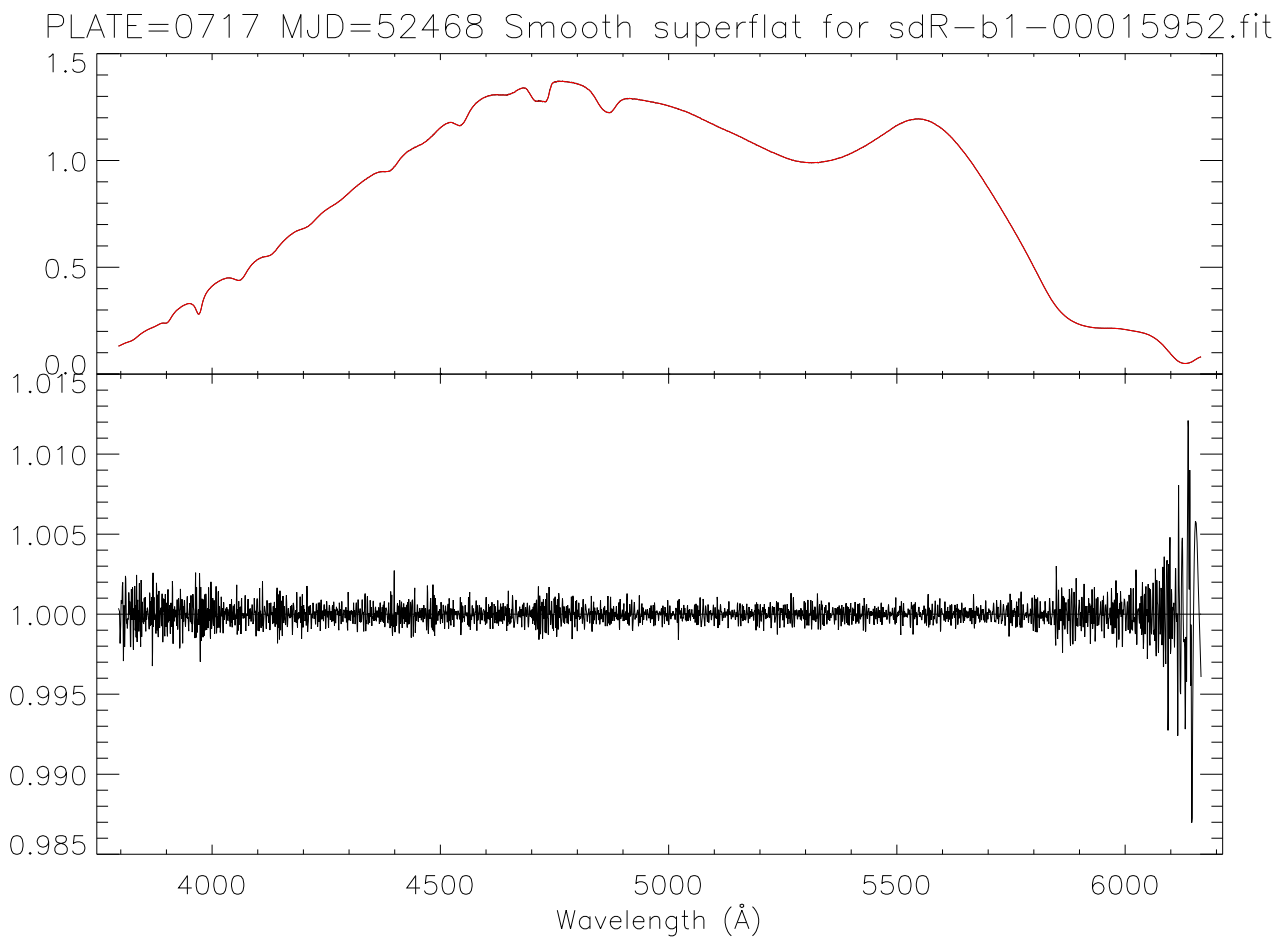

5889.9500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

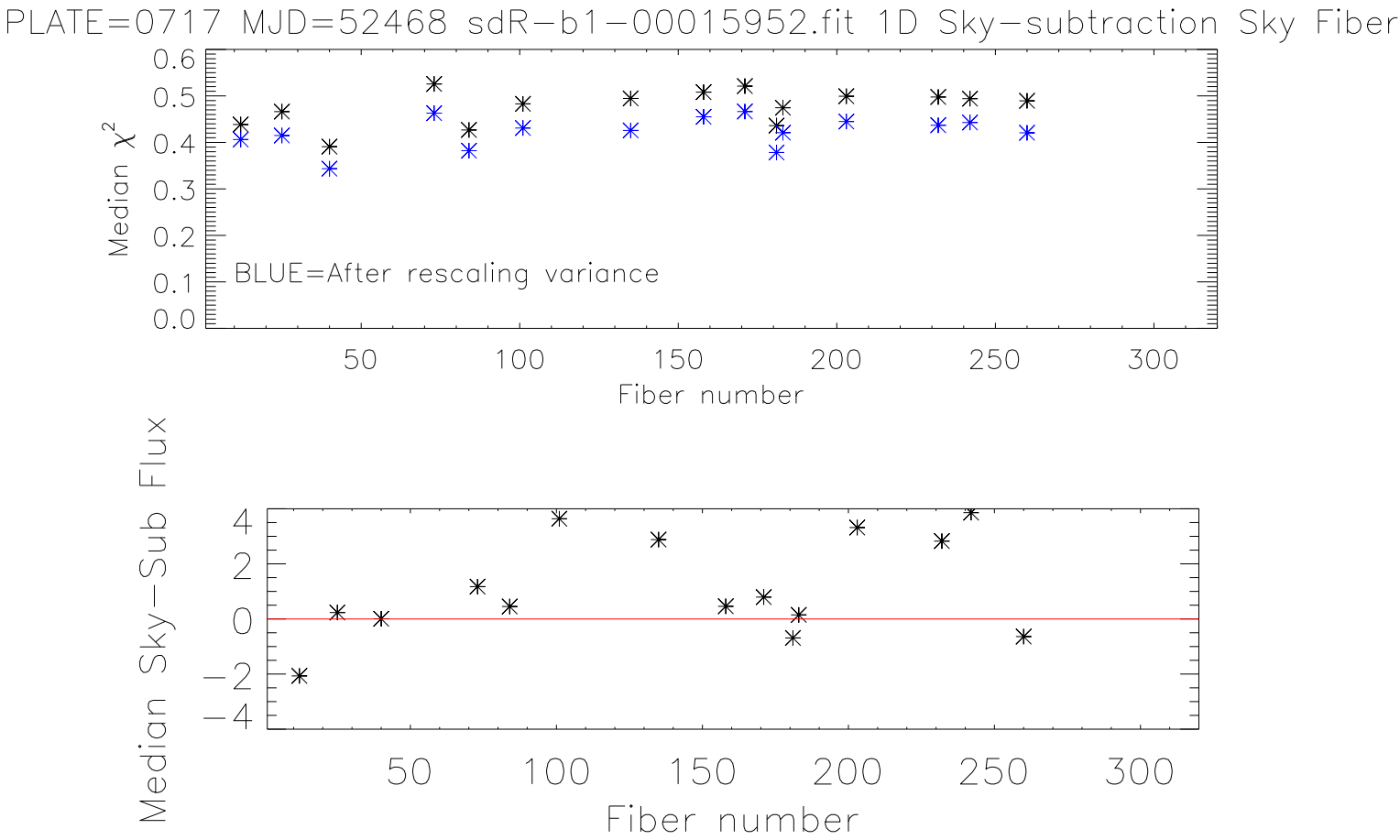

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

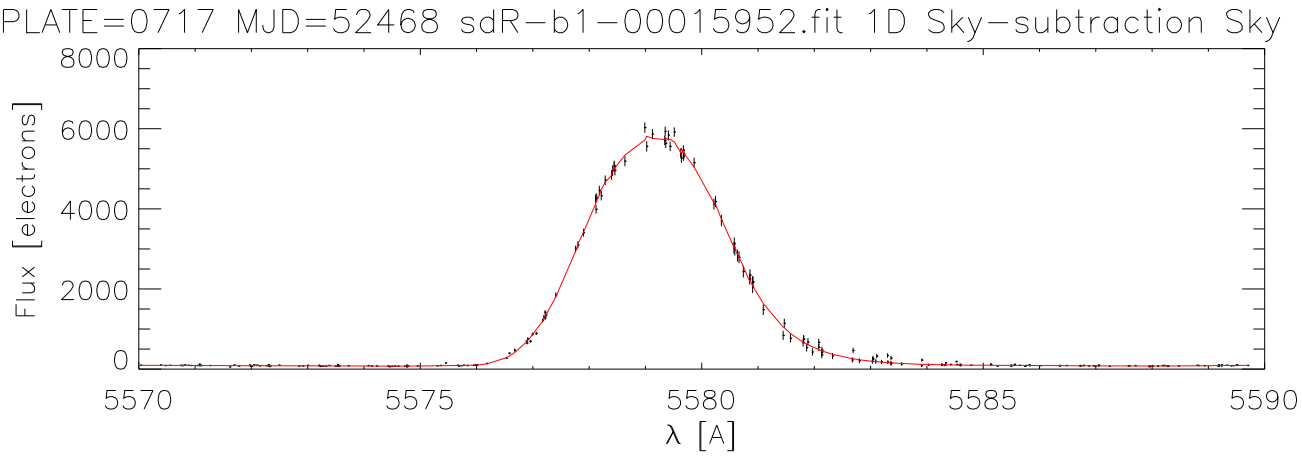

4046.5600
nfib1 15
nfib2 15
stdev 0.156
extra −0.01
4358.3300
nfib1 15
nfib2 16
stdev 0.069
extra −0.12
5460.9400
nfib1 15
nfib2 16
stdev 0.041
extra −0.09
5577.3390
nfib1 16
nfib2 16
stdev 0.019
extra −0.01
5889.9500
nfib1 15
nfib2 16
stdev 0.048
extra 0.09
5895.9240
nfib1 16
nfib2 16
stdev 0.048
extra 0.07
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

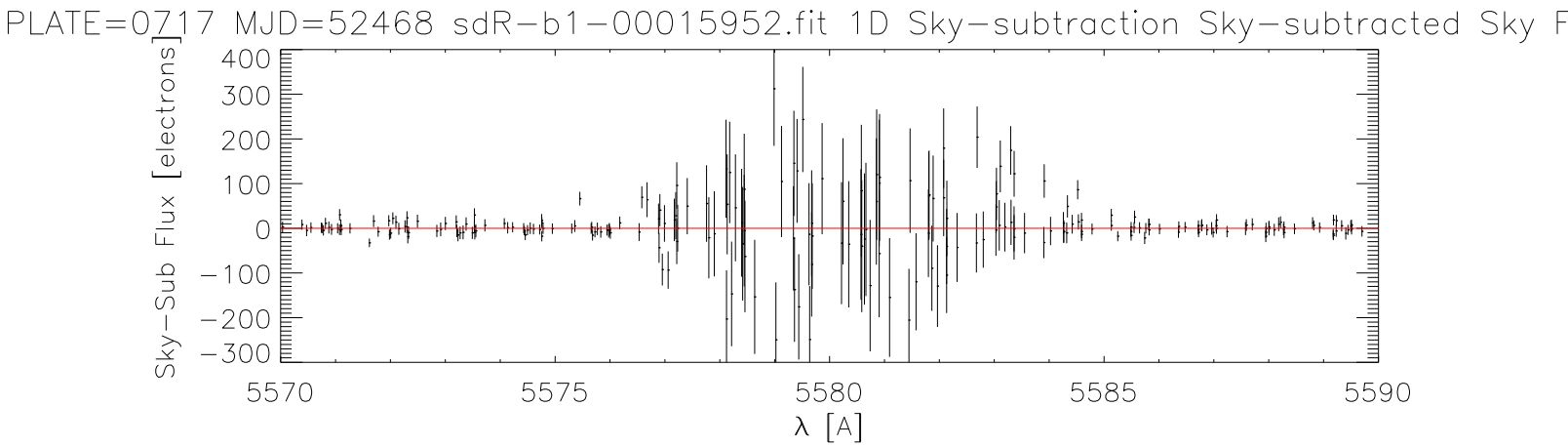

0.10
0.05
0.00
−0.05
−0.10
−0.15
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

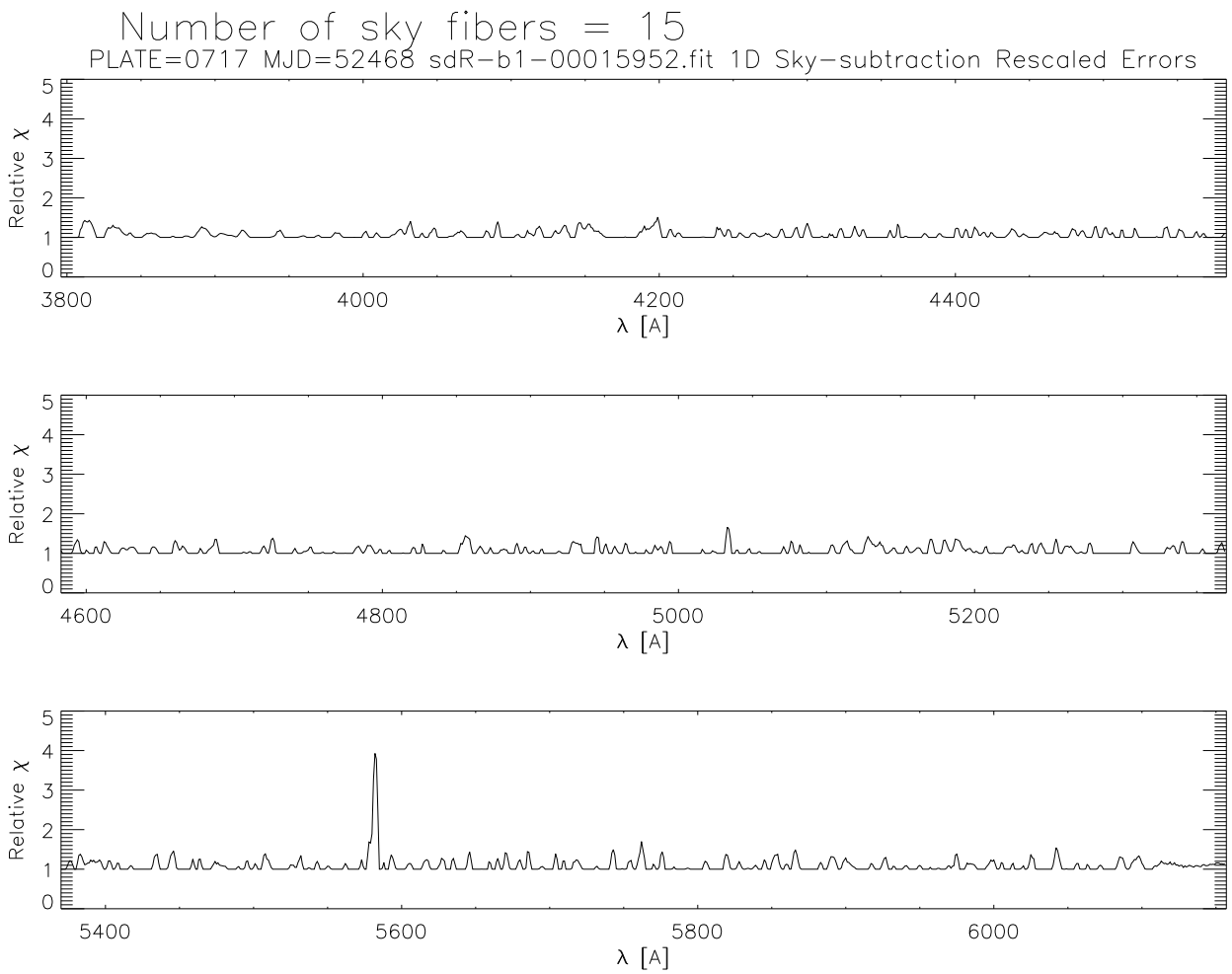
es= 0.0000

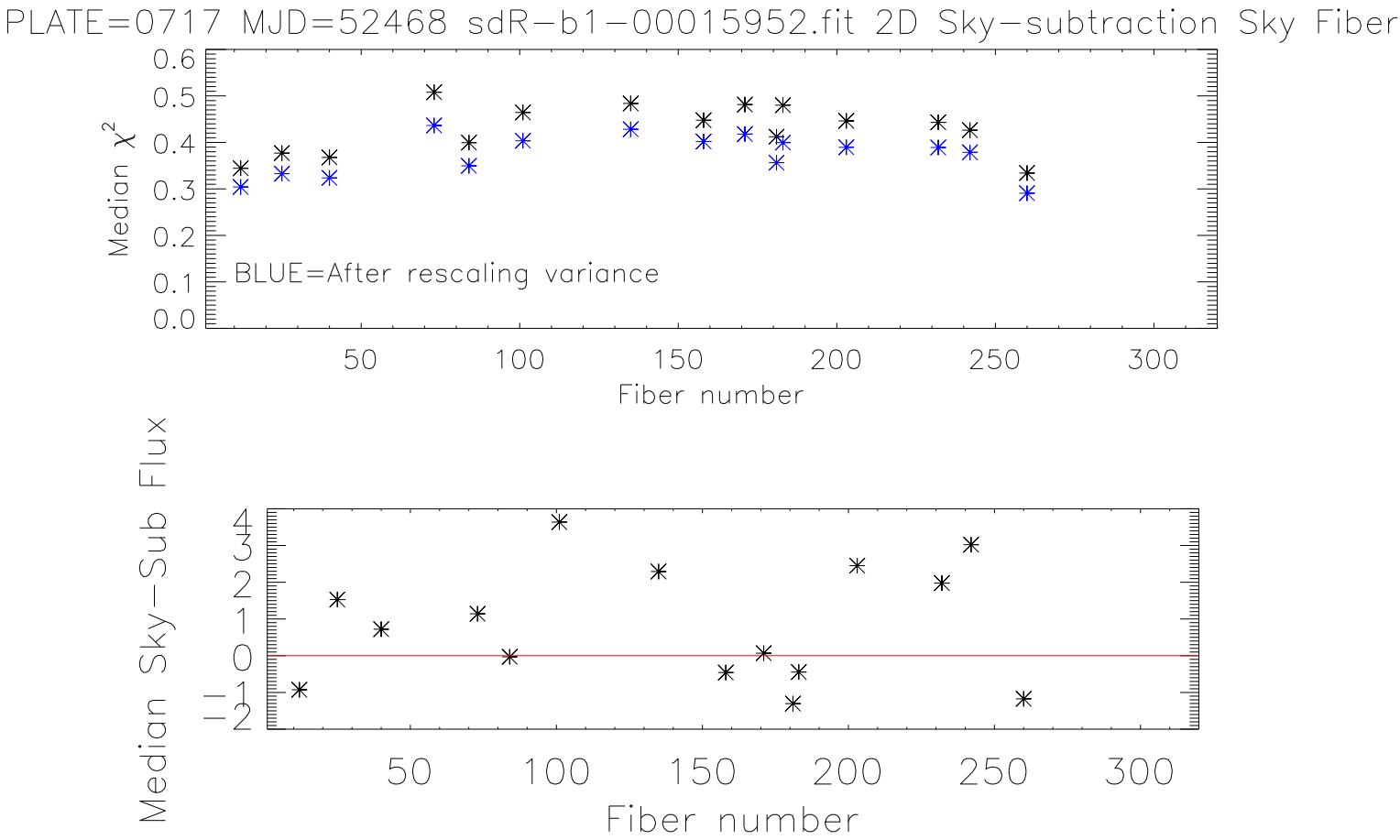

PLATE=0717 MJD=52468 Smooth superflat for sdR-b1-00015952.fit
1.5
1.0
0.5
0.0
1.015
1.010
1.005
1.000
0.995
0.990
0.985
4000
4500
5000
5500
6000
Wavelength (Å)

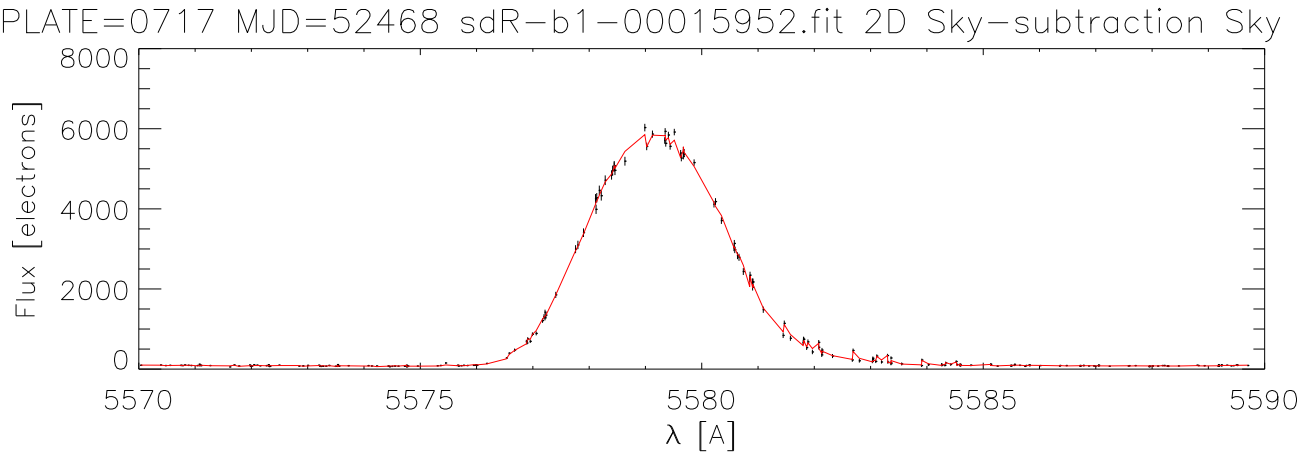

PLATE=0717 MJD=52468 sdR-b1-00015952.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
4
2
0
-2
-4
50
100
150
200
250
300
Fiber number

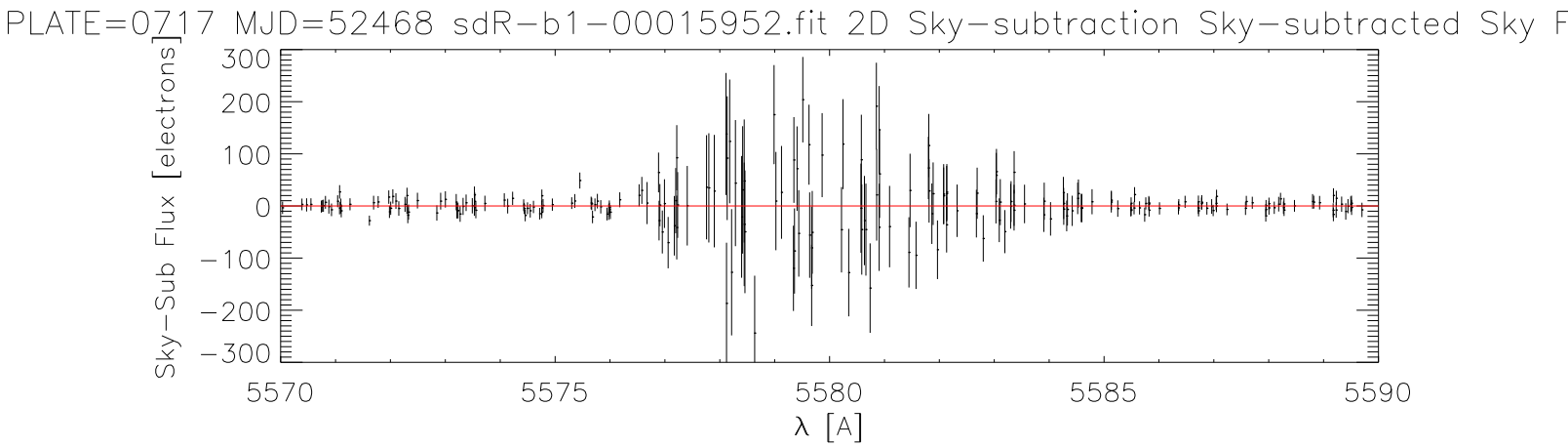

PLATE=0717 MJD=52468 sdR-b1-00015952.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

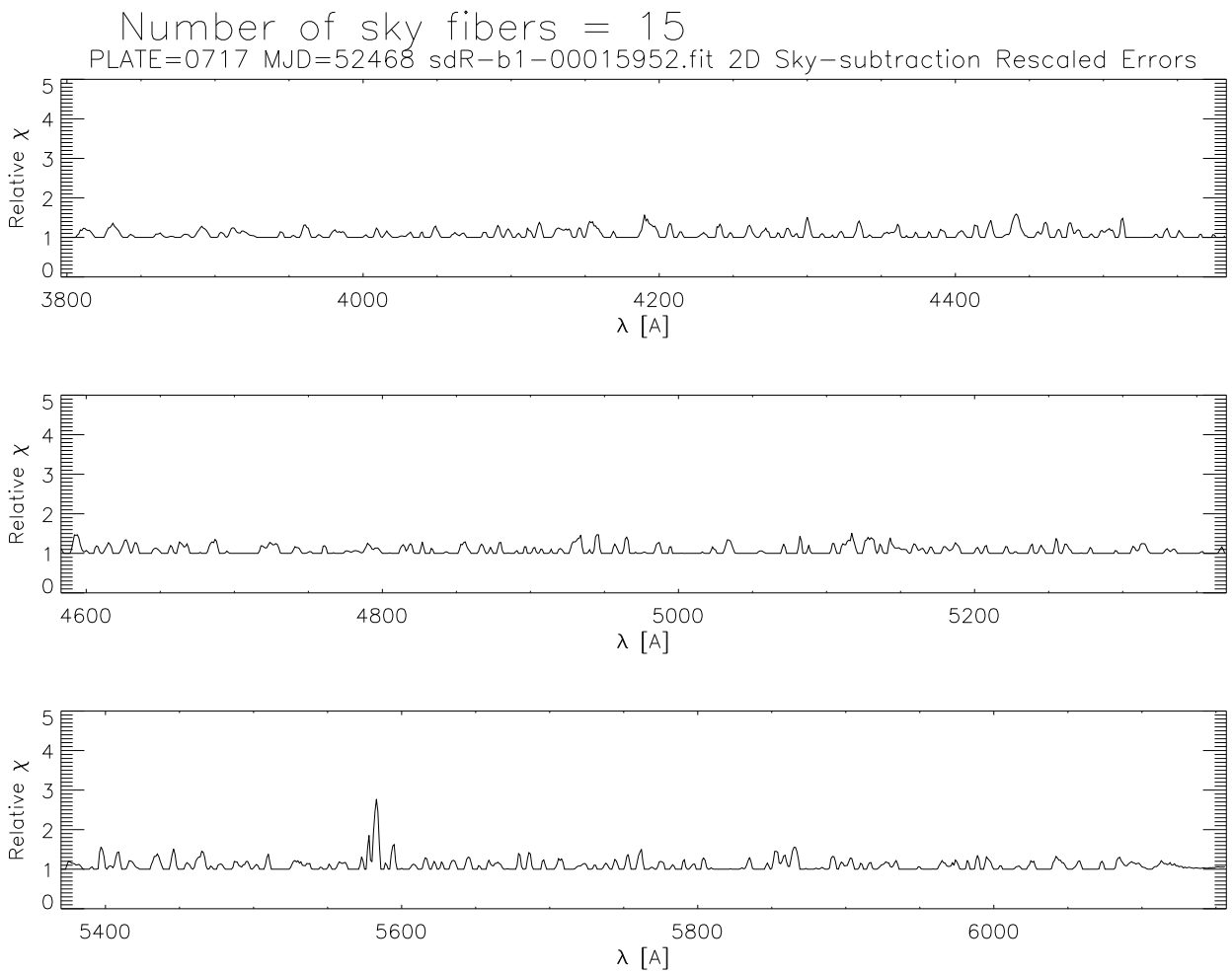

PLATE=0717 MJD=52468 sdR-b1-00015952.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

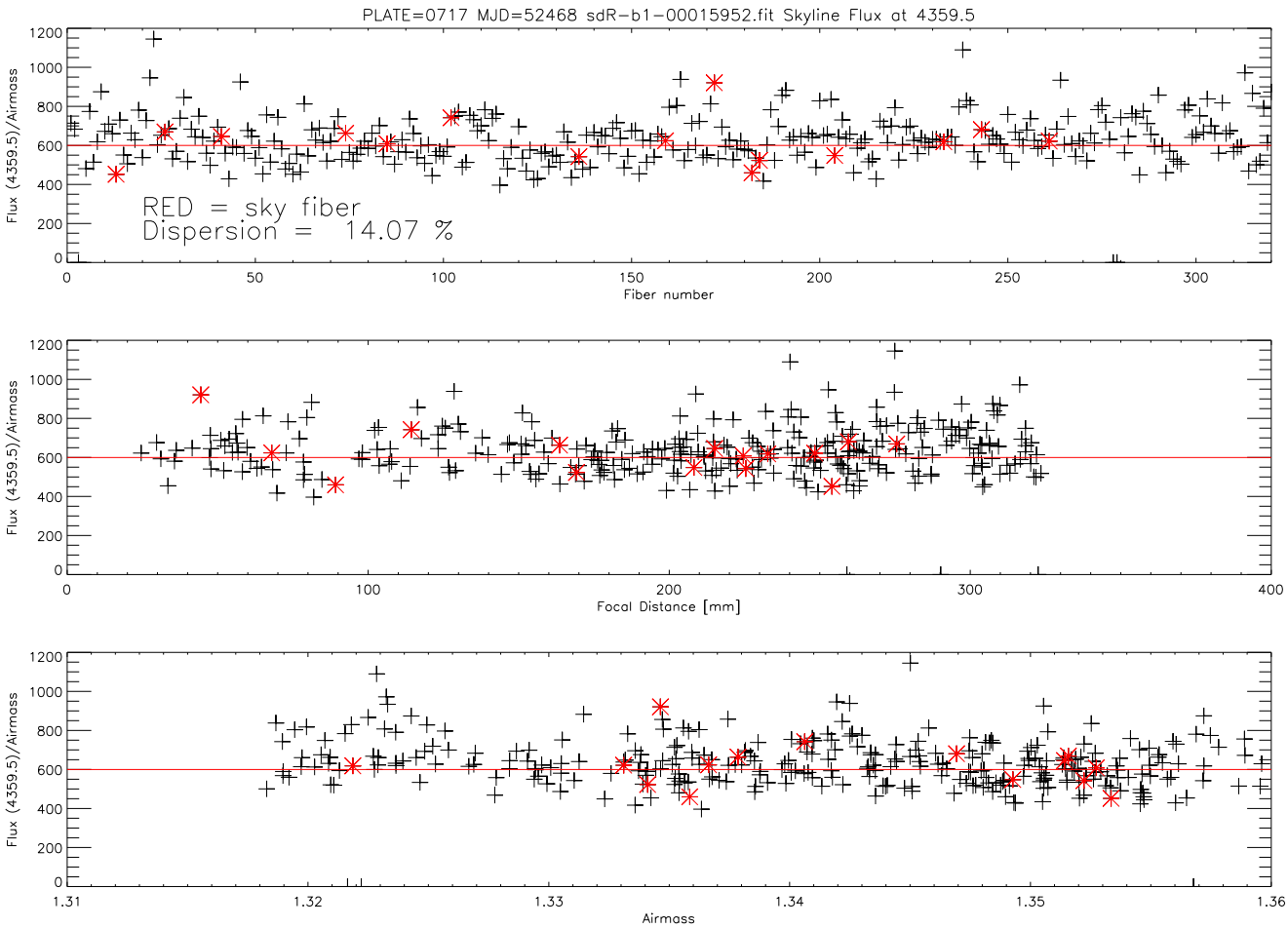

Number of sky fibers = 15
PLATE=0717 MJD=52468 sdR-b1-00015952.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

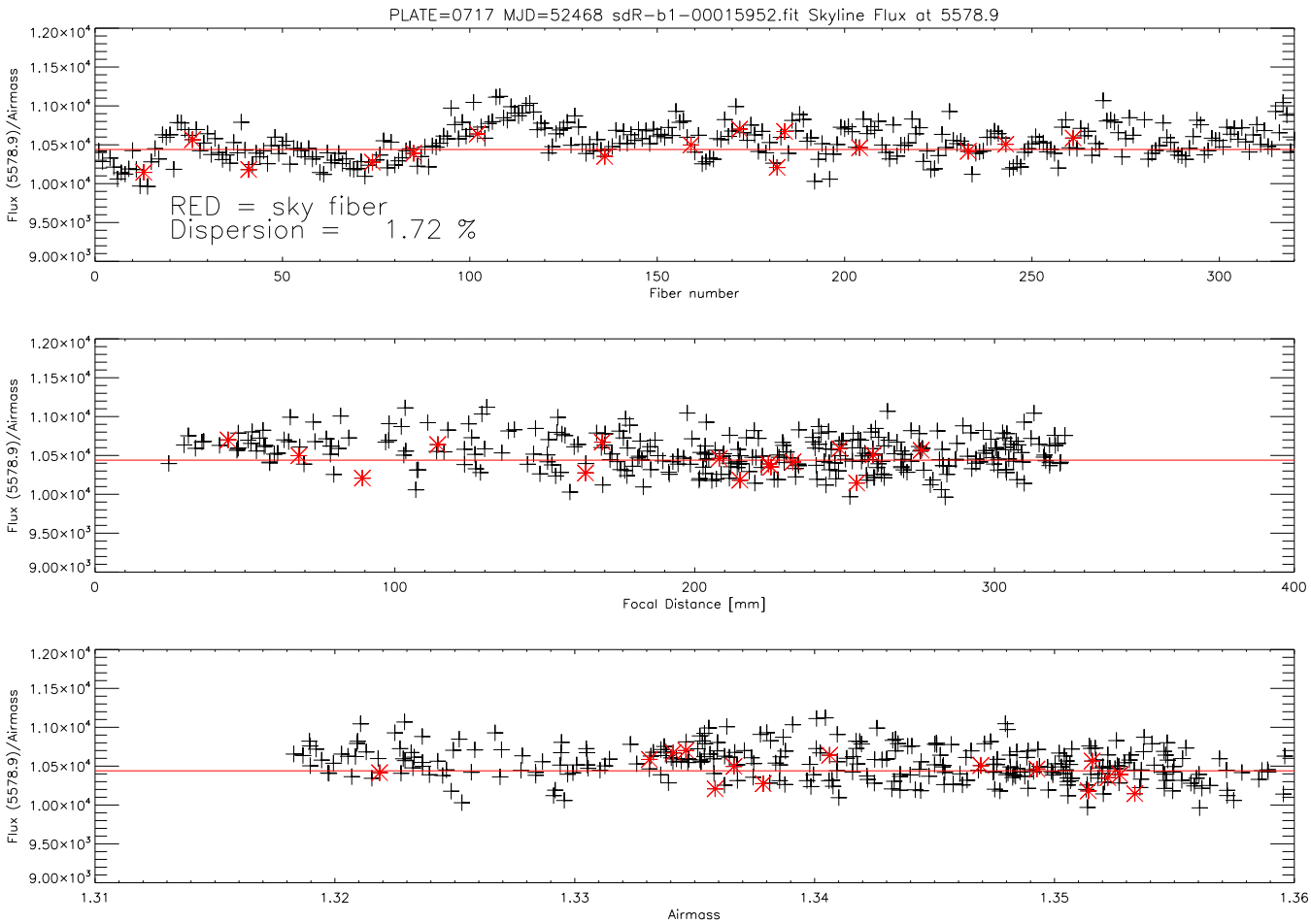

PLATE=0717 MJD=52468 sdR-b1-00015952.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

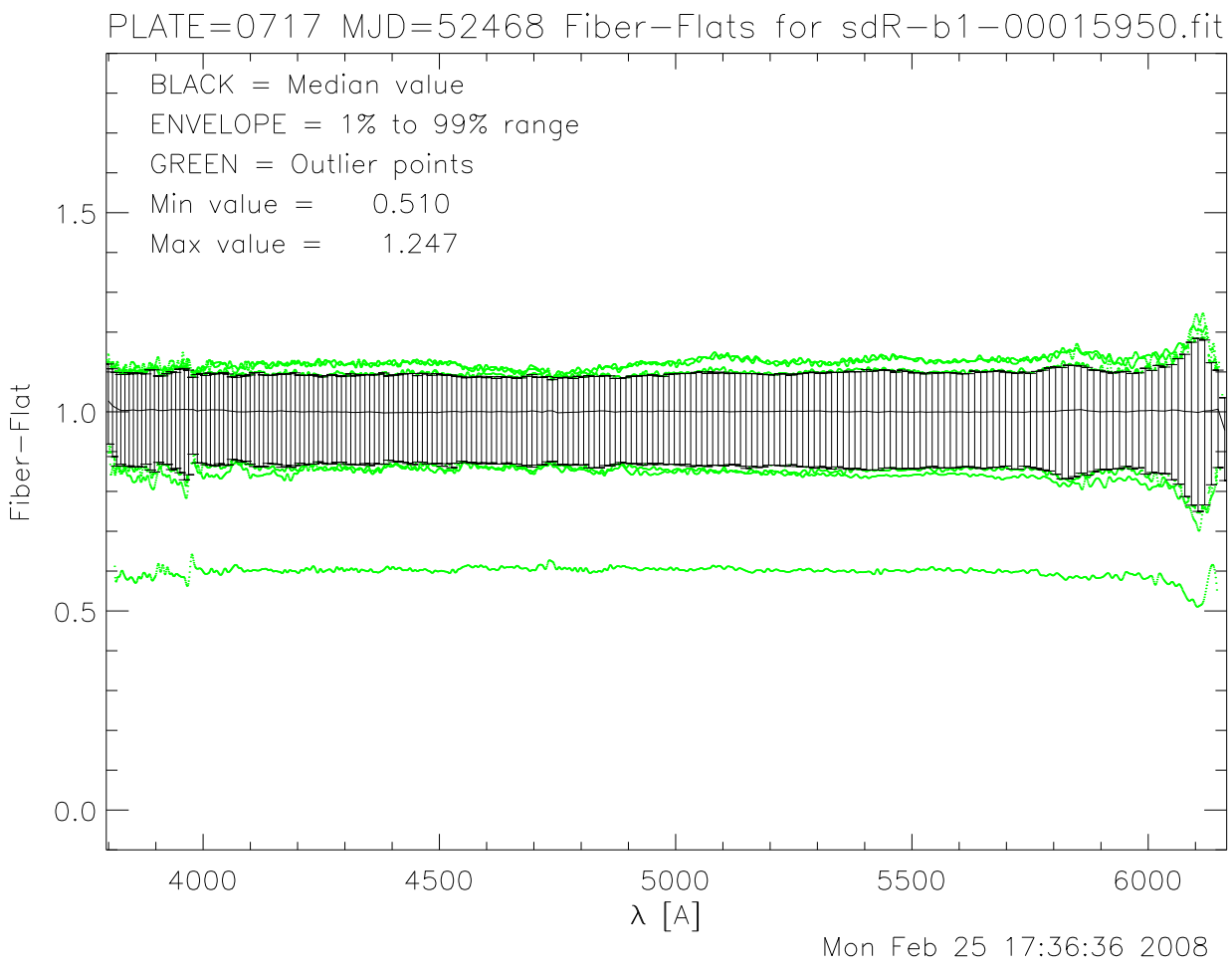

PLATE=0717 MJD=52468 sdR-b1-00015952.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

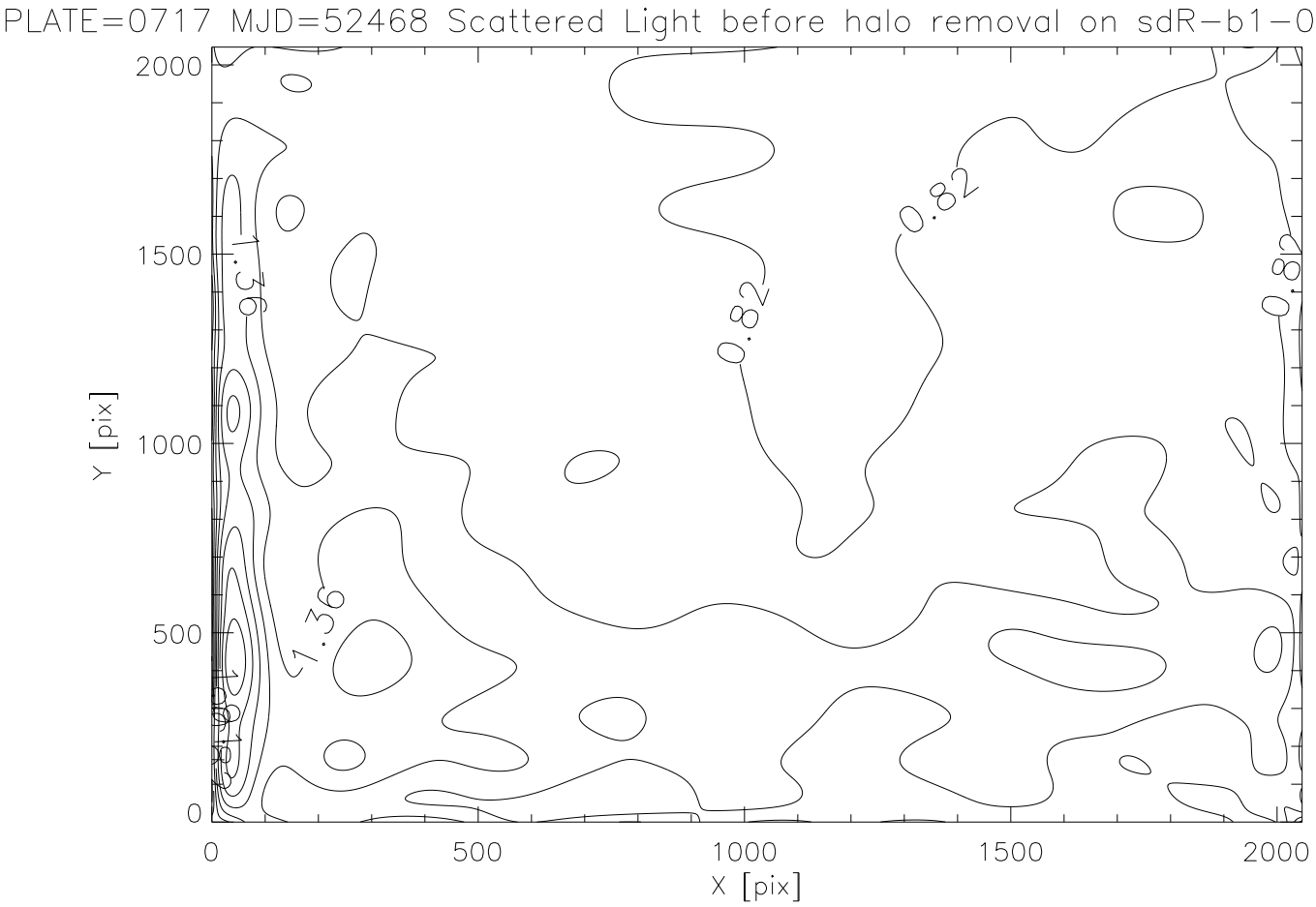

PLATE=0717 MJD=52468 sdR-b1-00015952.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

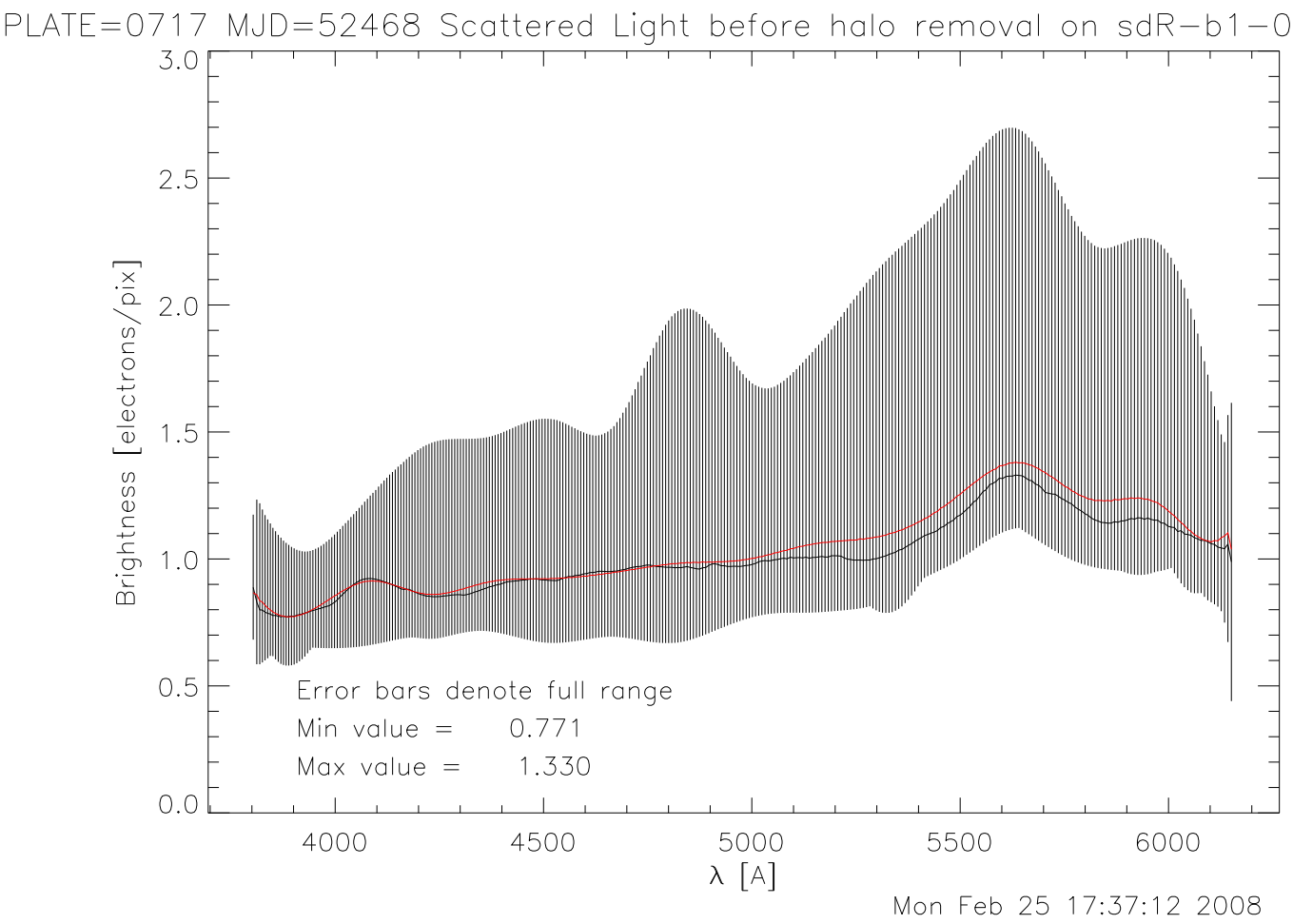

Number of sky fibers = 15
PLATE=0717 MJD=52468 sdR-b1-00015952.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

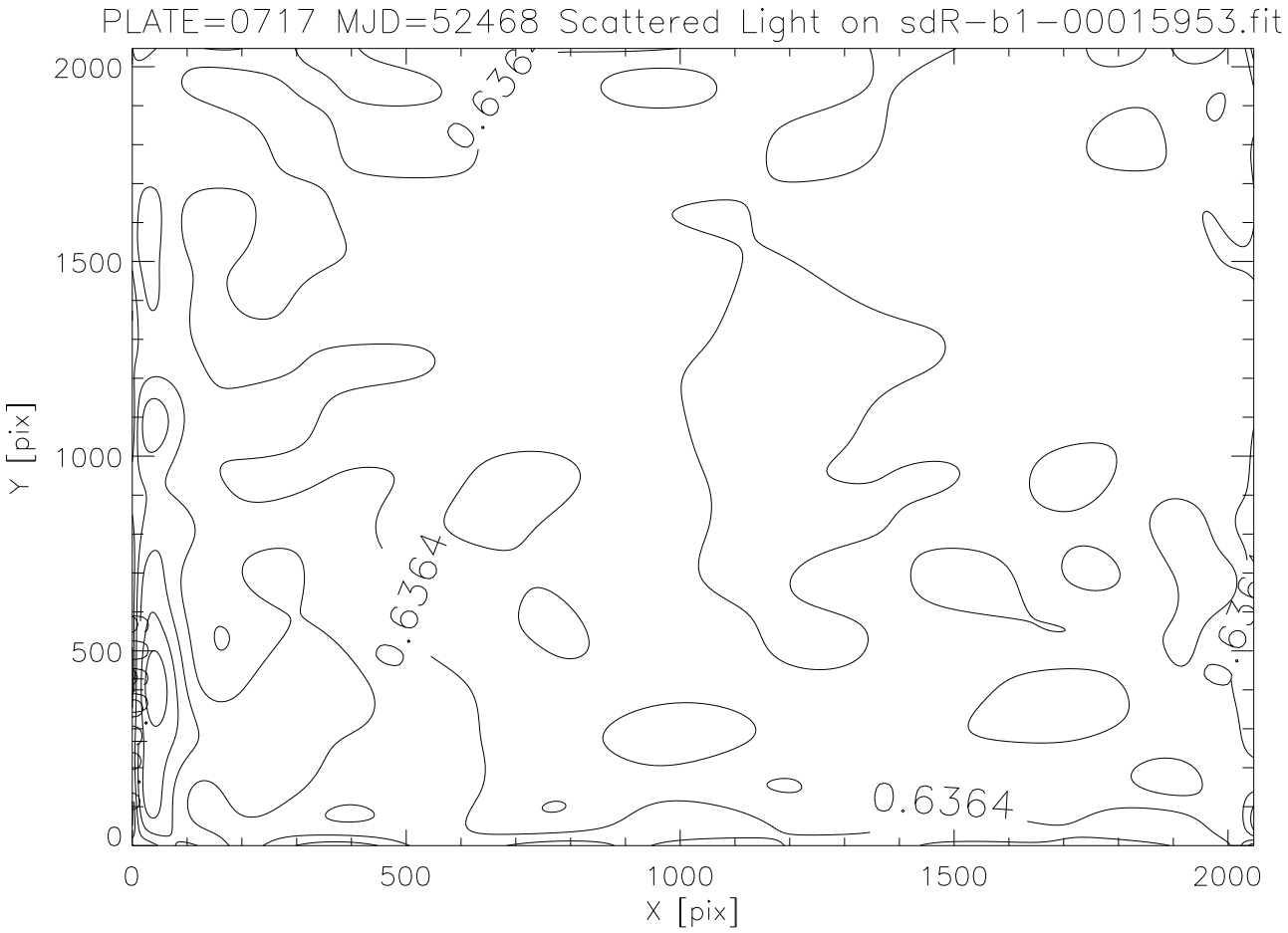

PLATE=0717 MJD=52468 sdR-b1-00015952.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 14.07 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

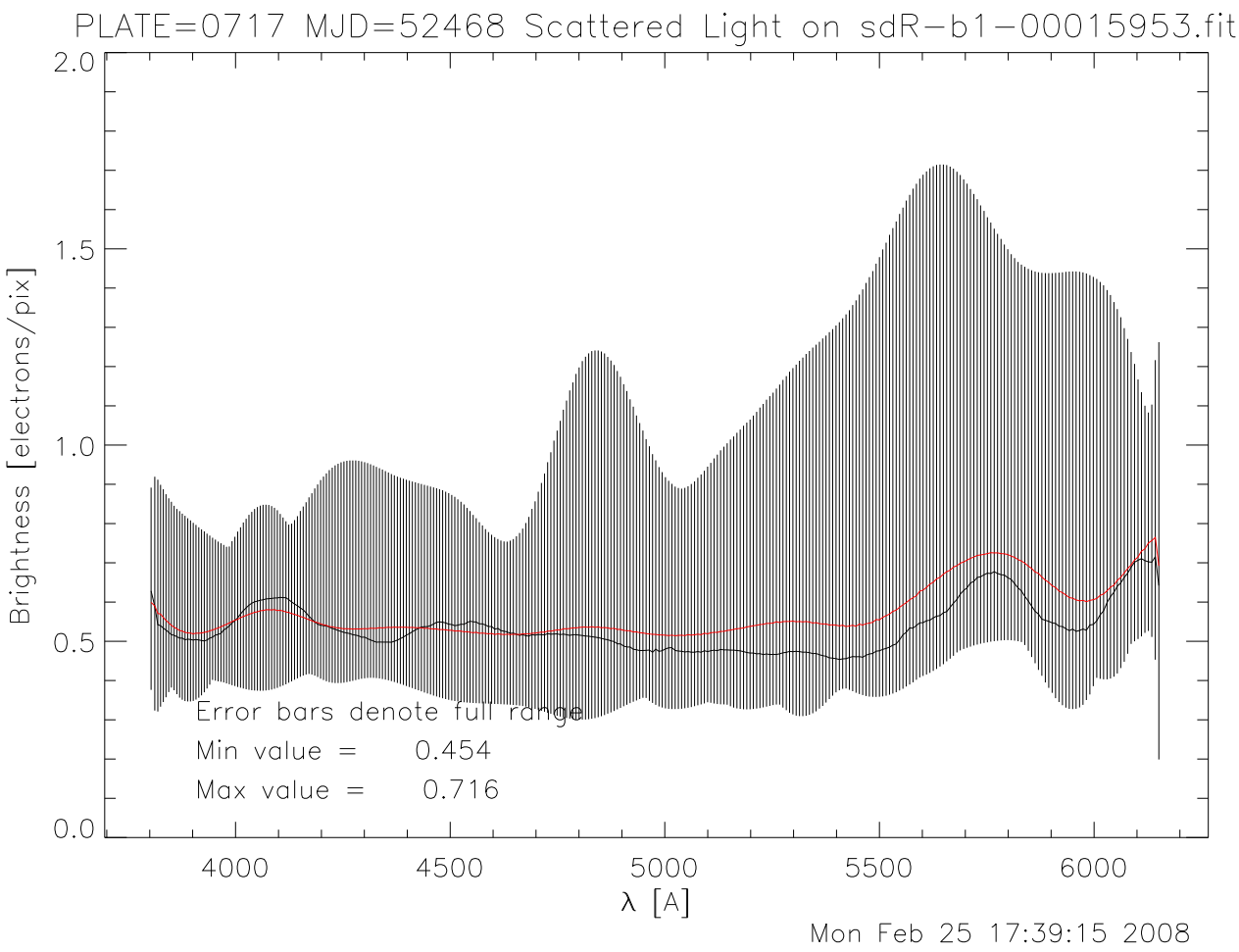

PLATE=0717 MJD=52468 sdR-b1-00015952.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.72 %
Fiber number
Focal Distance [mm]
Airmass

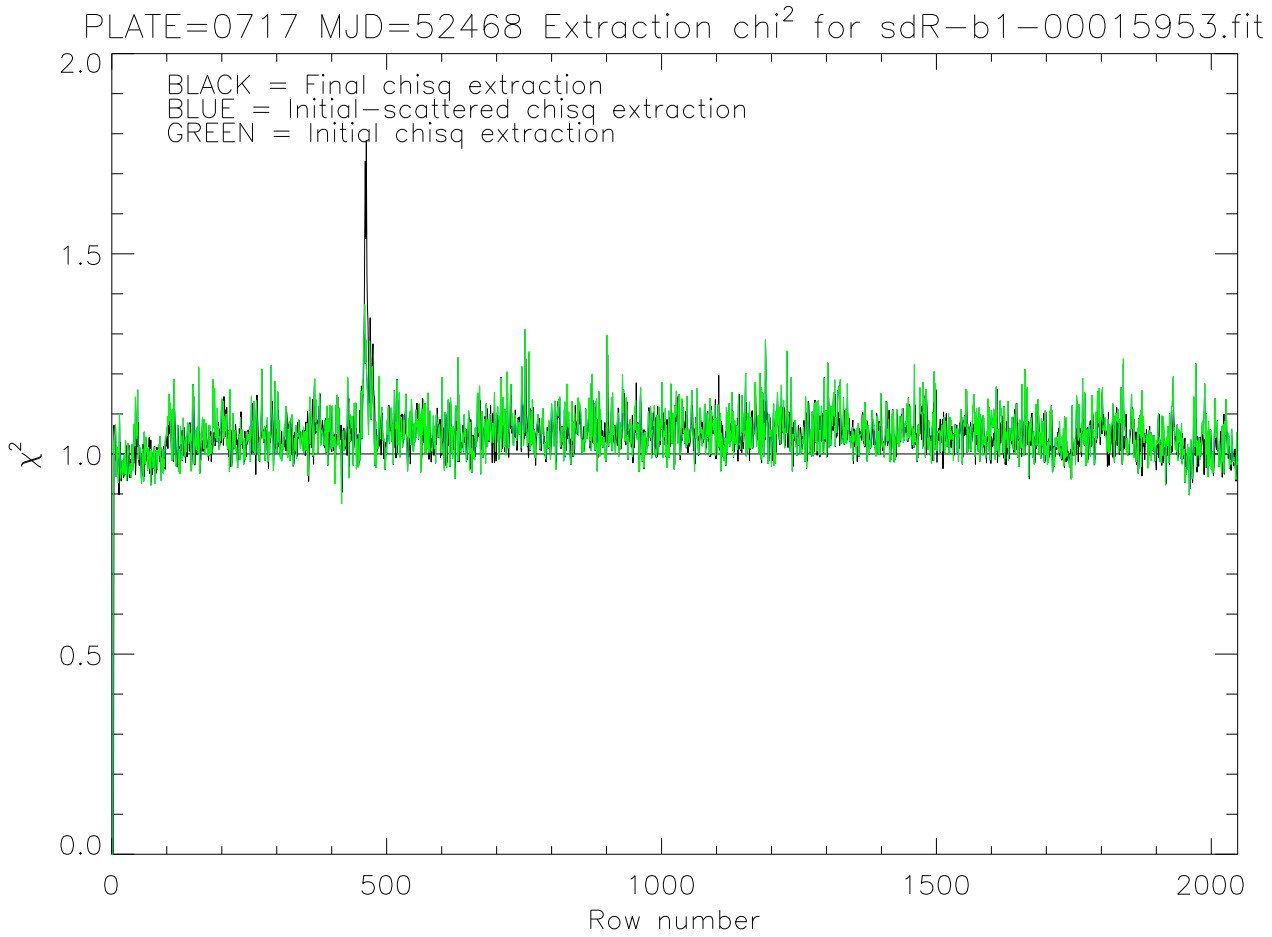

PLATE=0717 MJD=52468 Fiber-Flats for sdR-b1-00015950.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.510
Max value = 1.247
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 17:36:36 2008

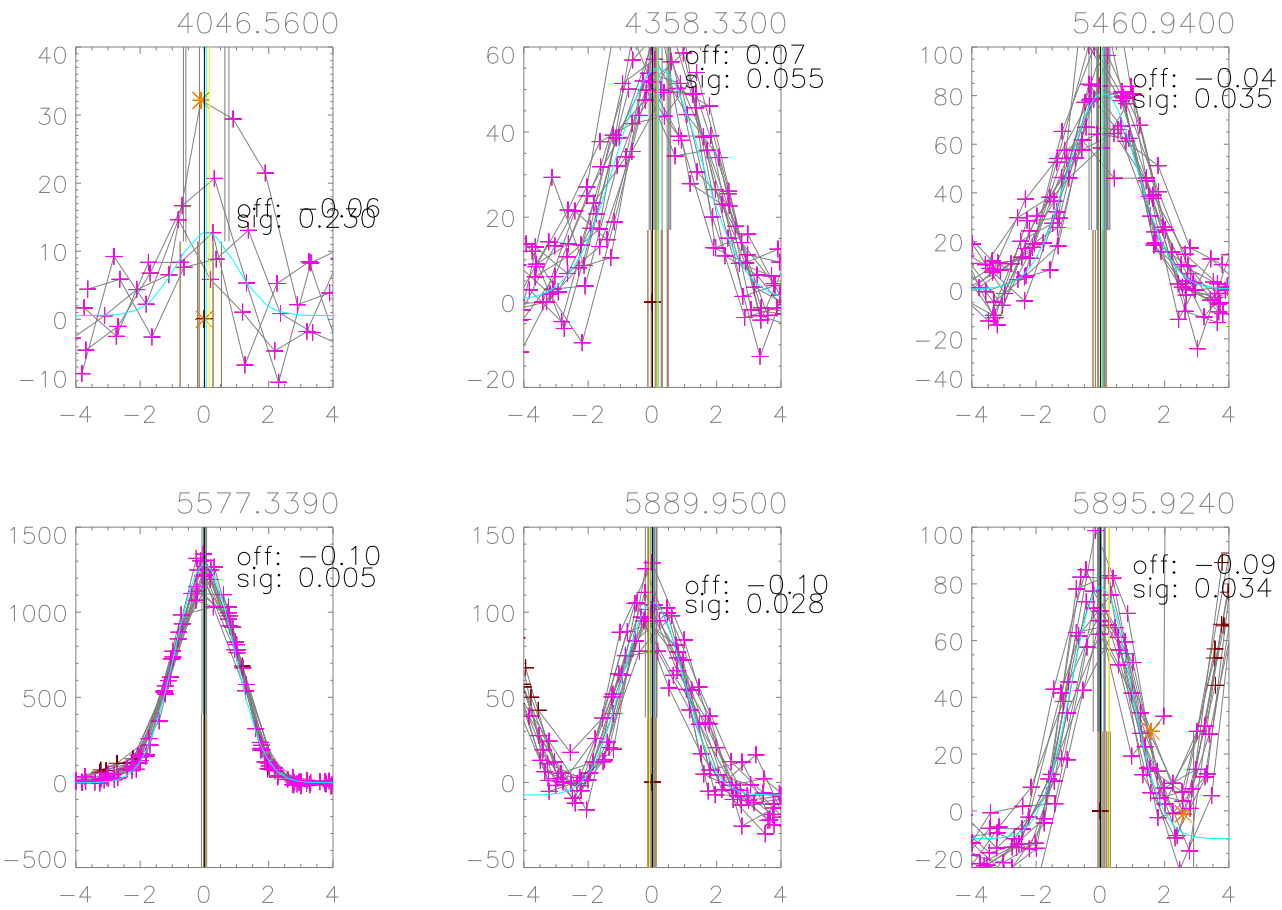

PLATE=0717 MJD=52468 Scattered Light before halo removal on sdR−b1−00015953.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
0
1.36
0.82
0.82
0.82
1.36
1.36

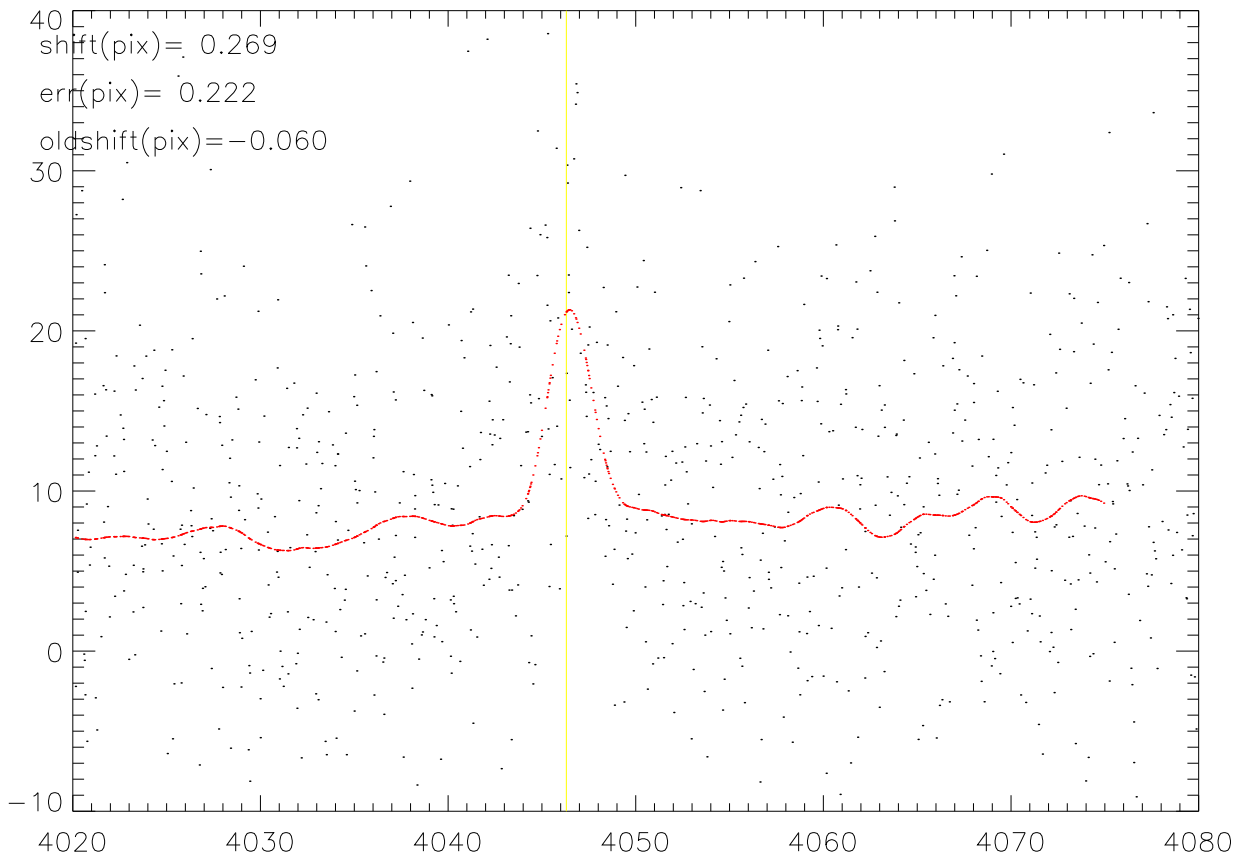

PLATE=0717 MJD=52468 Scattered Light before halo removal on sdR-b1-00015953.f
Brightness [electrons/pix]
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Error bars denote full range
Min value = 0.771
Max value = 1.330
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 17:37:12 2008

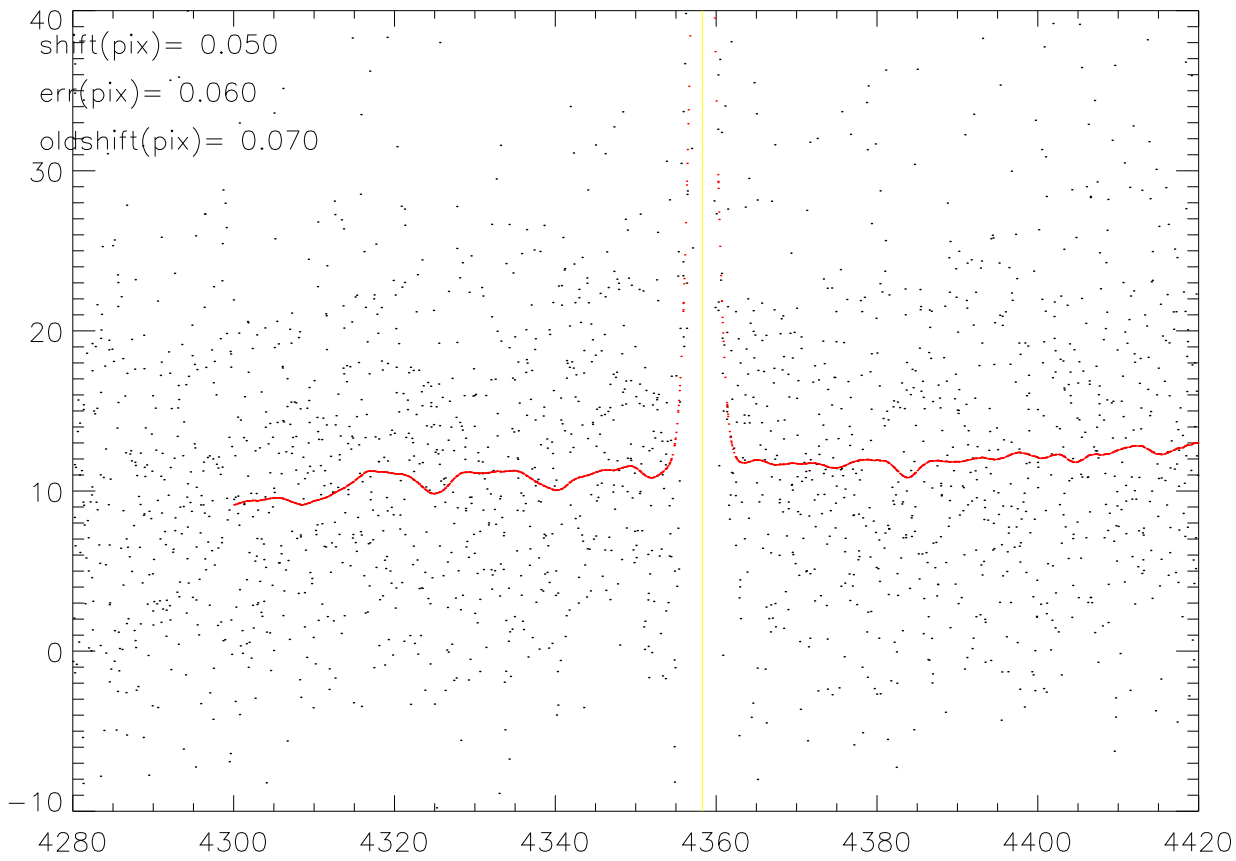

PLATE=0717 MJD=52468 Scattered Light on sdR-b1-00015953.fit
0.6364
0
0.6364
0.6364
0
2000
1500
1000
500
0
0
500
1000
1500
2000
Y [pix]
X [pix]

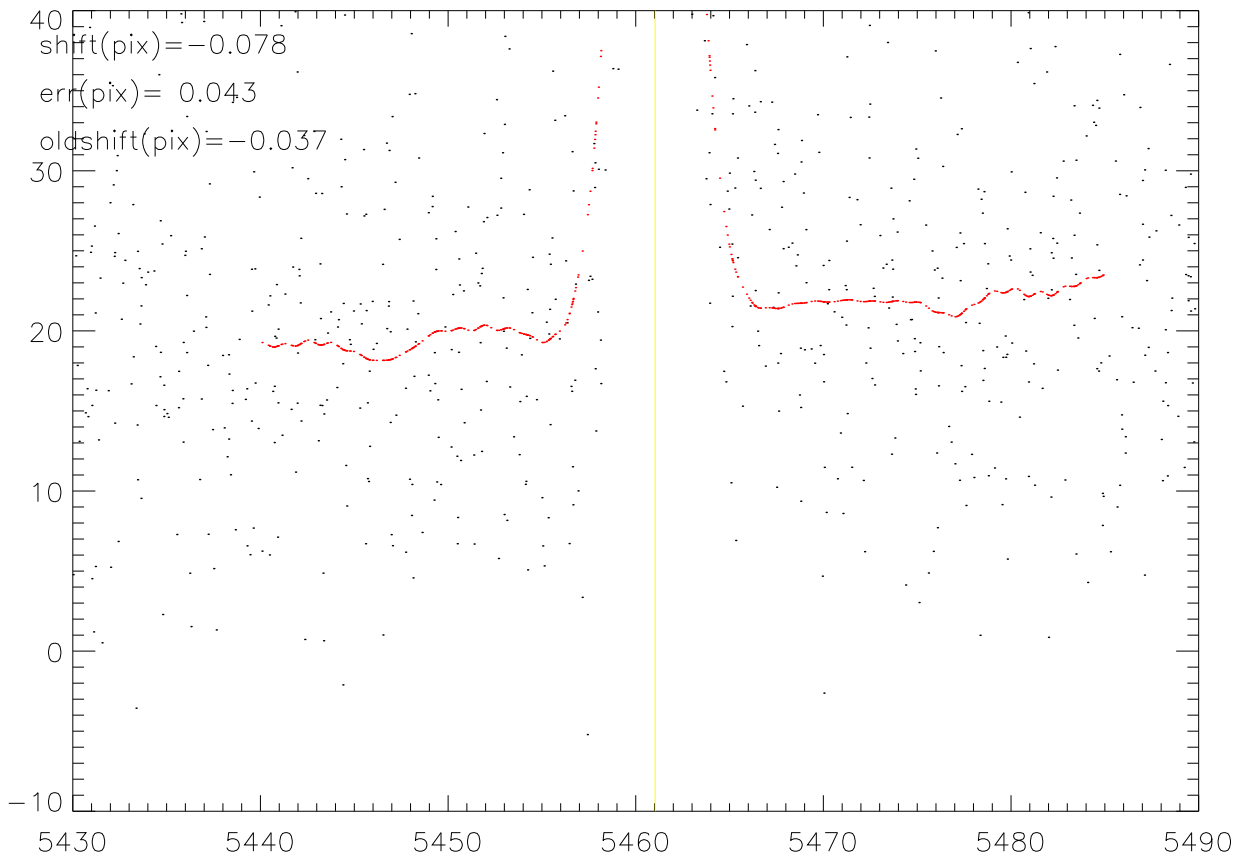

PLATE=0717 MJD=52468 Scattered Light on sdR-b1-00015953.fit
Brightness [electrons/pix]
2.0
1.5
1.0
0.5
0.0
Error bars denote full range
Min value = 0.454
Max value = 0.716
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 17:39:15 2008

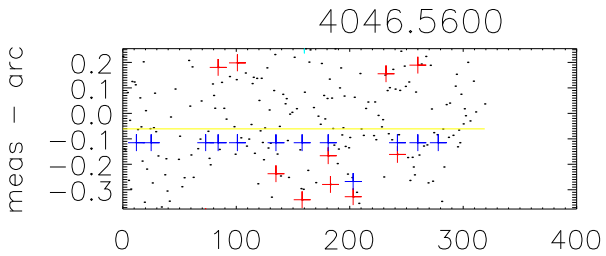

PLATE=0717 MJD=52468 Extraction chi^2 for sdR-b1-00015953.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

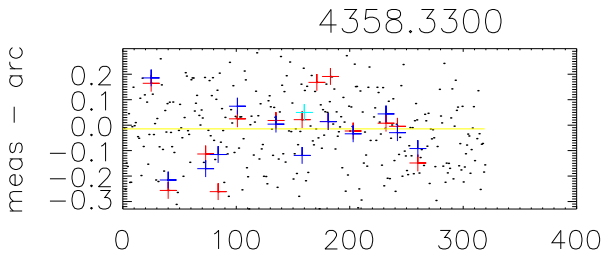

4046.5600
off: −0.06
sig: 0.230
4358.3300
off: 0.07
sig: 0.055
5460.9400
off: −0.04
sig: 0.035
5577.3390
off: −0.10
sig: 0.005
5889.9500
off: −0.10
sig: 0.028
5895.9240
off: −0.09
sig: 0.034

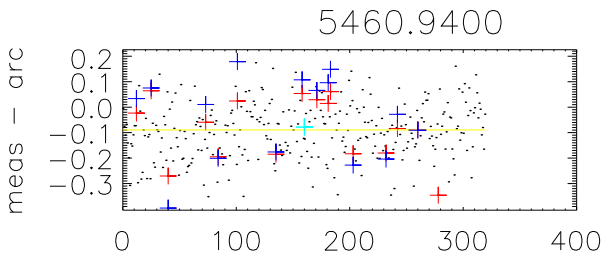

shift(pix)= 0.269
err(pix)= 0.222
oldshift(pix)=−0.060
40
30
20
10
0
−10
4020
4030
4040
4050
4060
4070
4080

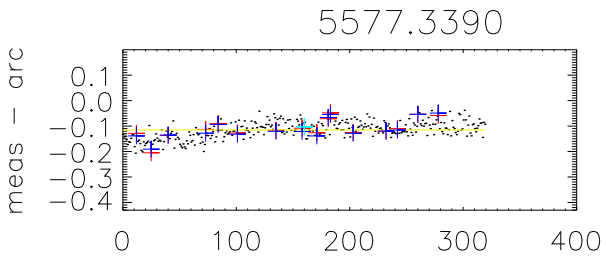

shift(pix)= 0.050
err(pix)= 0.060
oldshift(pix)= 0.070
40
30
20
10
0
−10
4280
4300
4320
4340
4360
4380
4400
4420

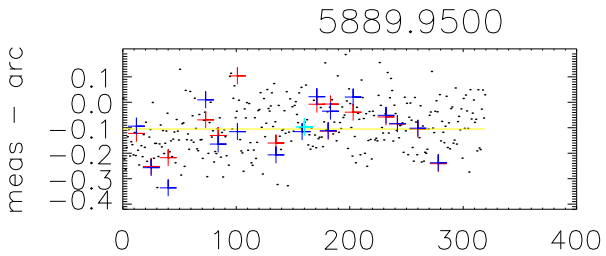

shift(pix)=−0.078
err(pix)= 0.043
oldshift(pix)=−0.037
40
30
20
10
0
−10
5430
5440
5450
5460
5470
5480
5490

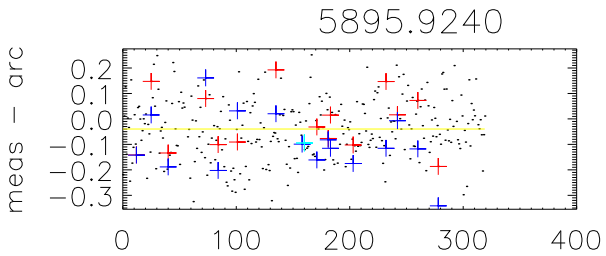

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

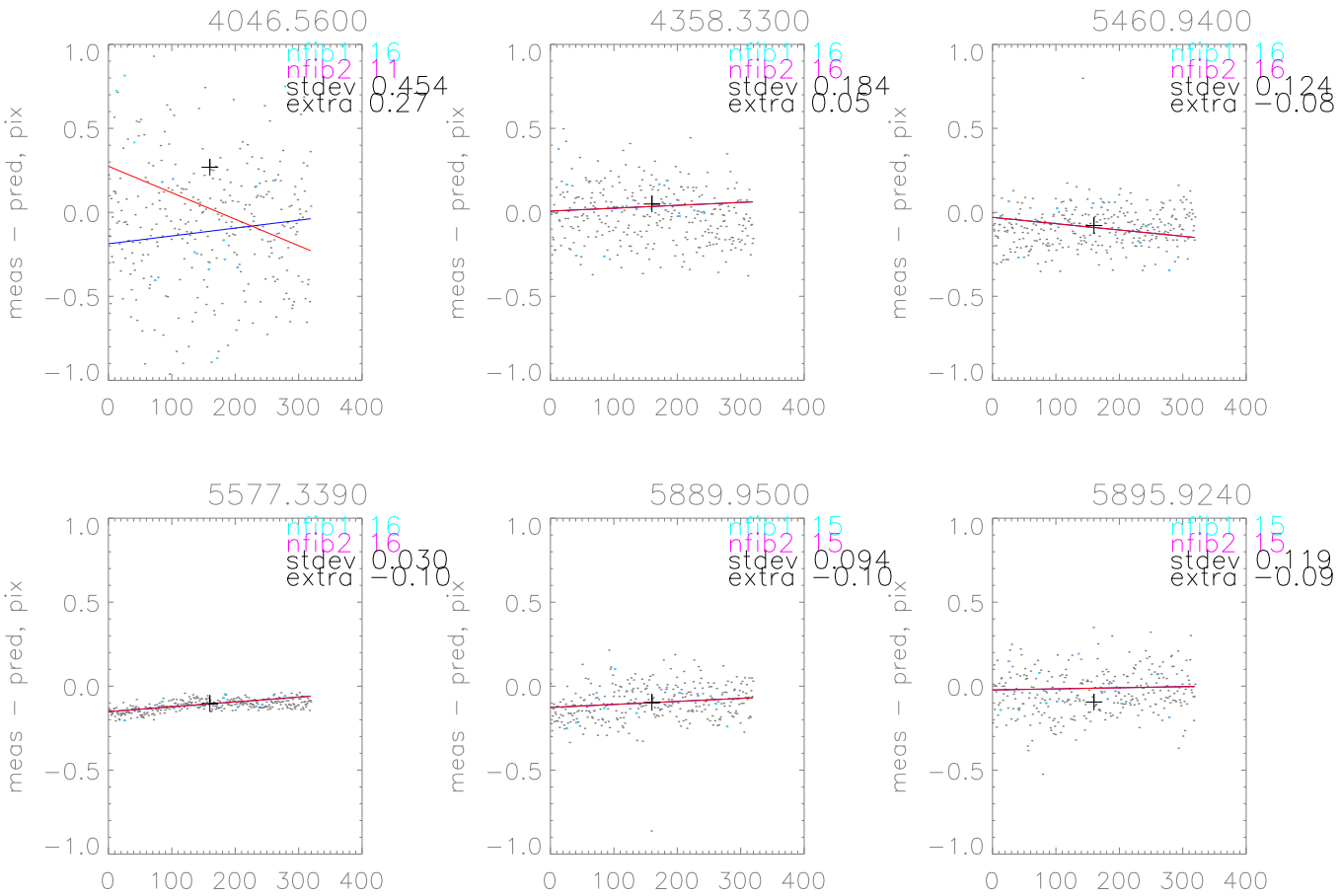

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

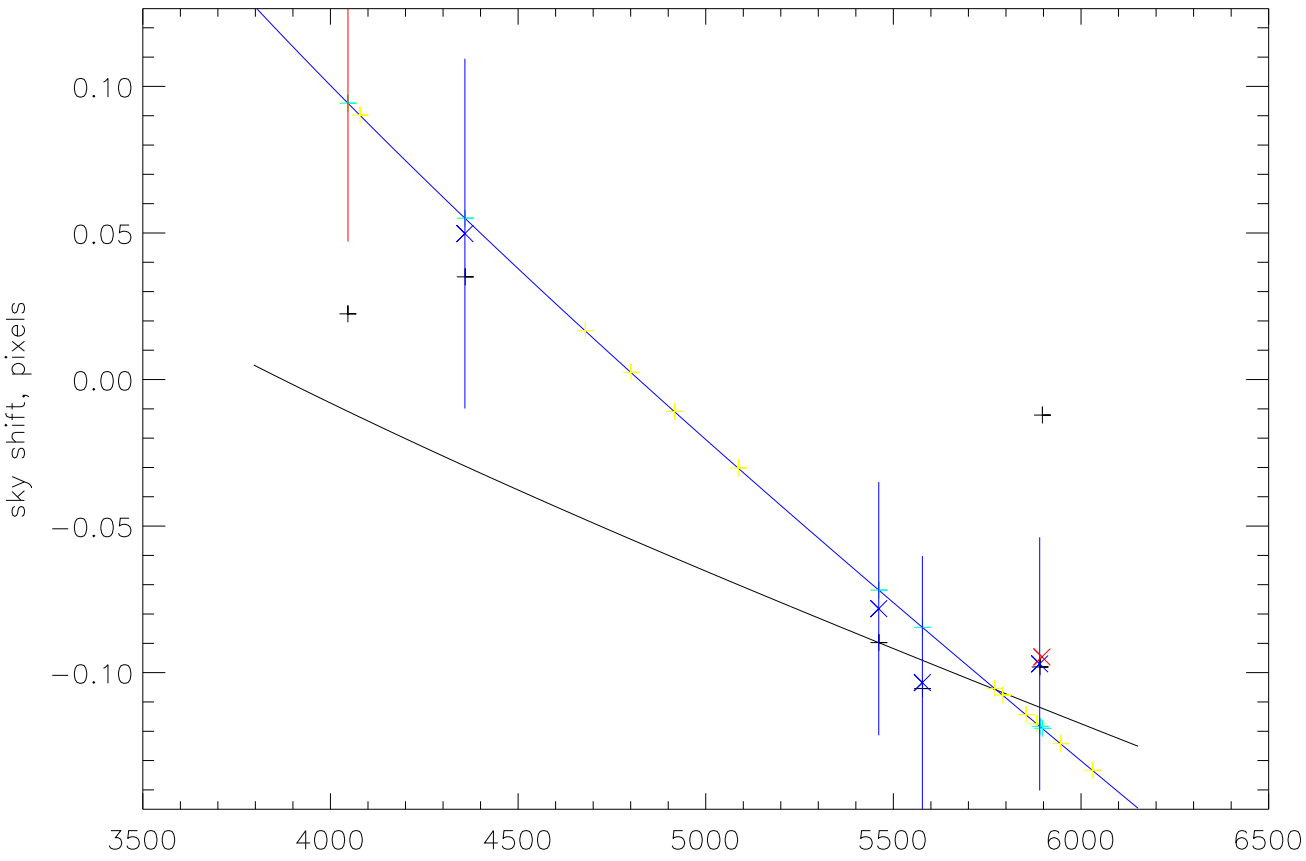

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

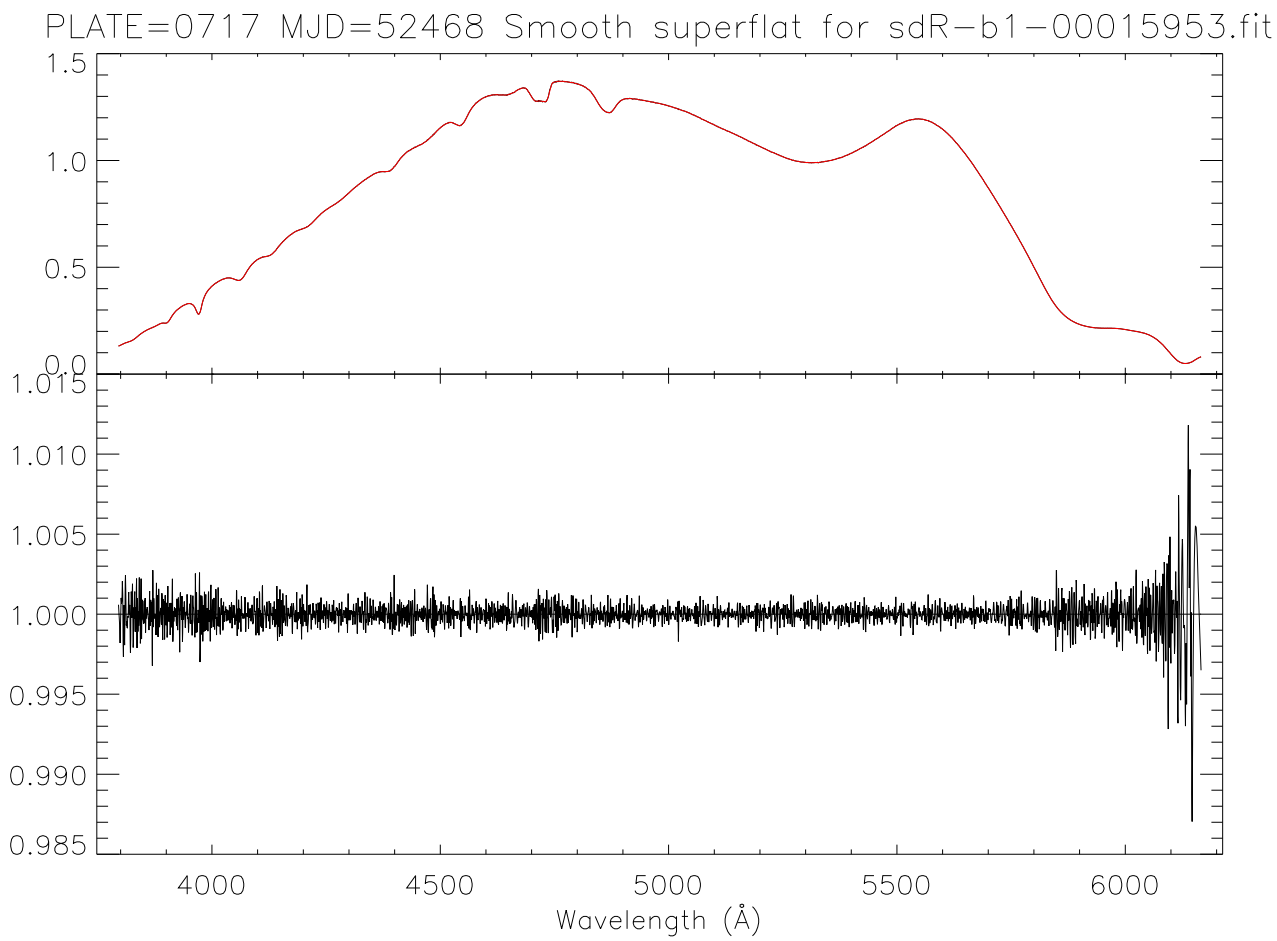

5889.9500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

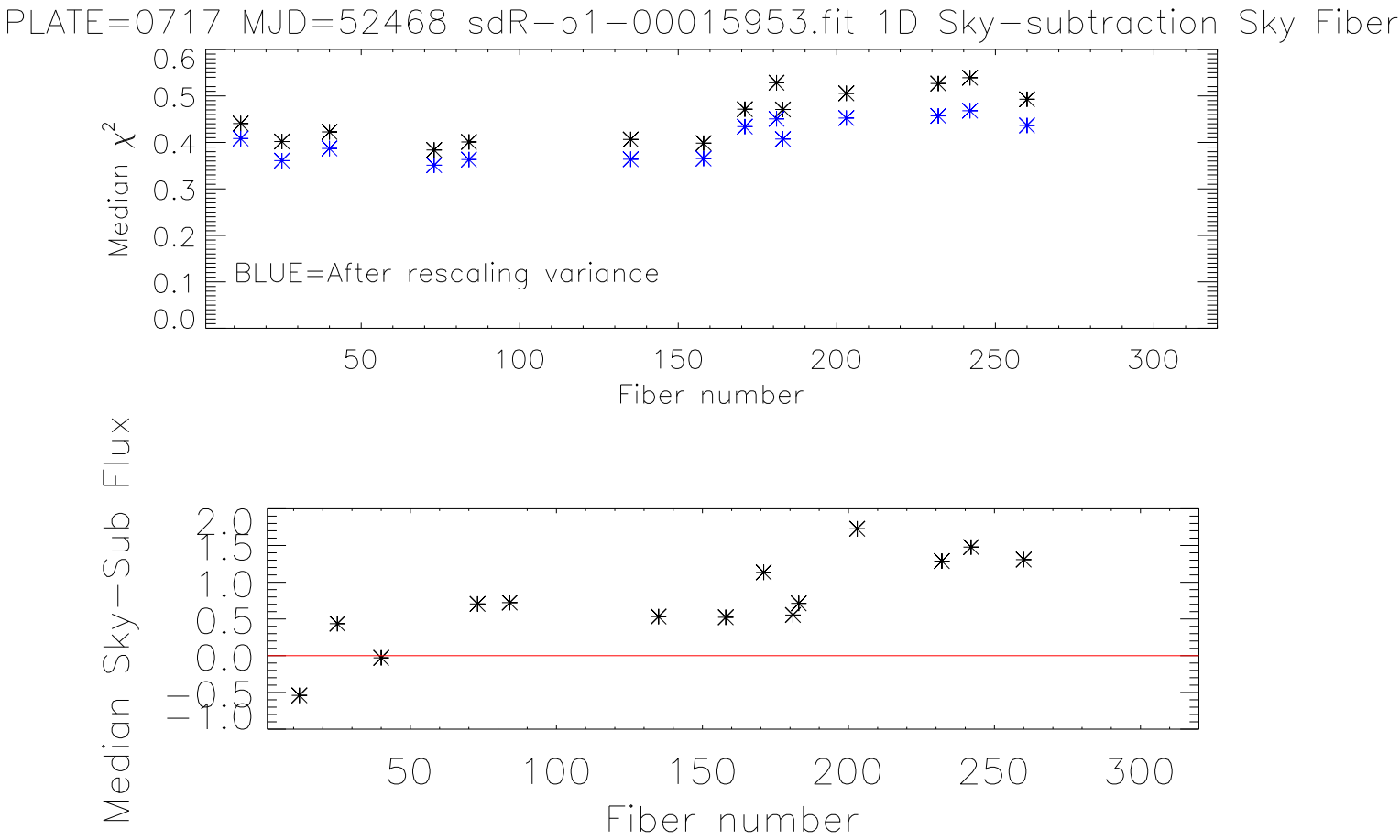

5895.9240
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

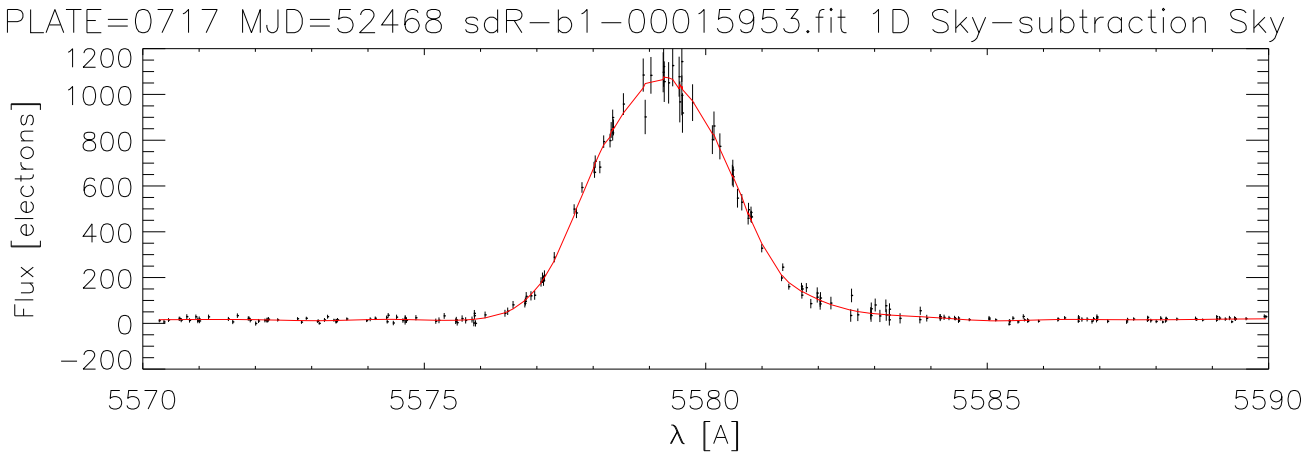

4046.5600
nfib1 16
nfib2 11
stdev 0.454
extra 0.27
4358.3300
nfib1 16
nfib2 16
stdev 0.184
extra 0.05
5460.9400
nfib1 16
nfib2 16
stdev 0.124
extra −0.08
5577.3390
nfib1 16
nfib2 16
stdev 0.030
extra −0.10
5889.9500
nfib1 15
nfib2 15
stdev 0.094
extra −0.10
5895.9240
nfib1 15
nfib2 15
stdev 0.119
extra −0.09
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

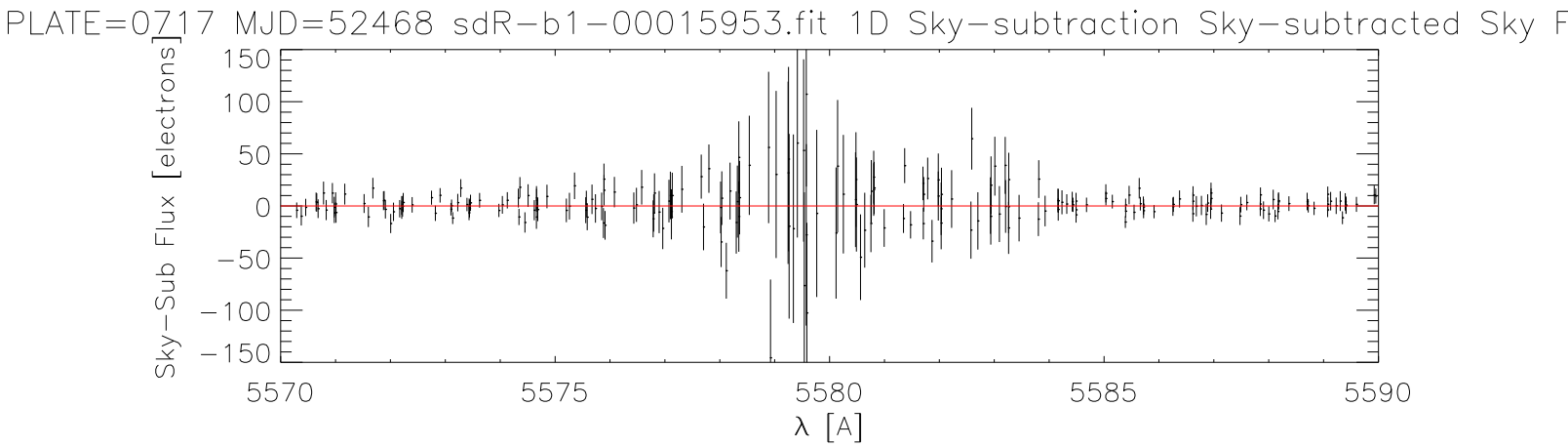

0.10
0.05
0.00
−0.05
−0.10
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

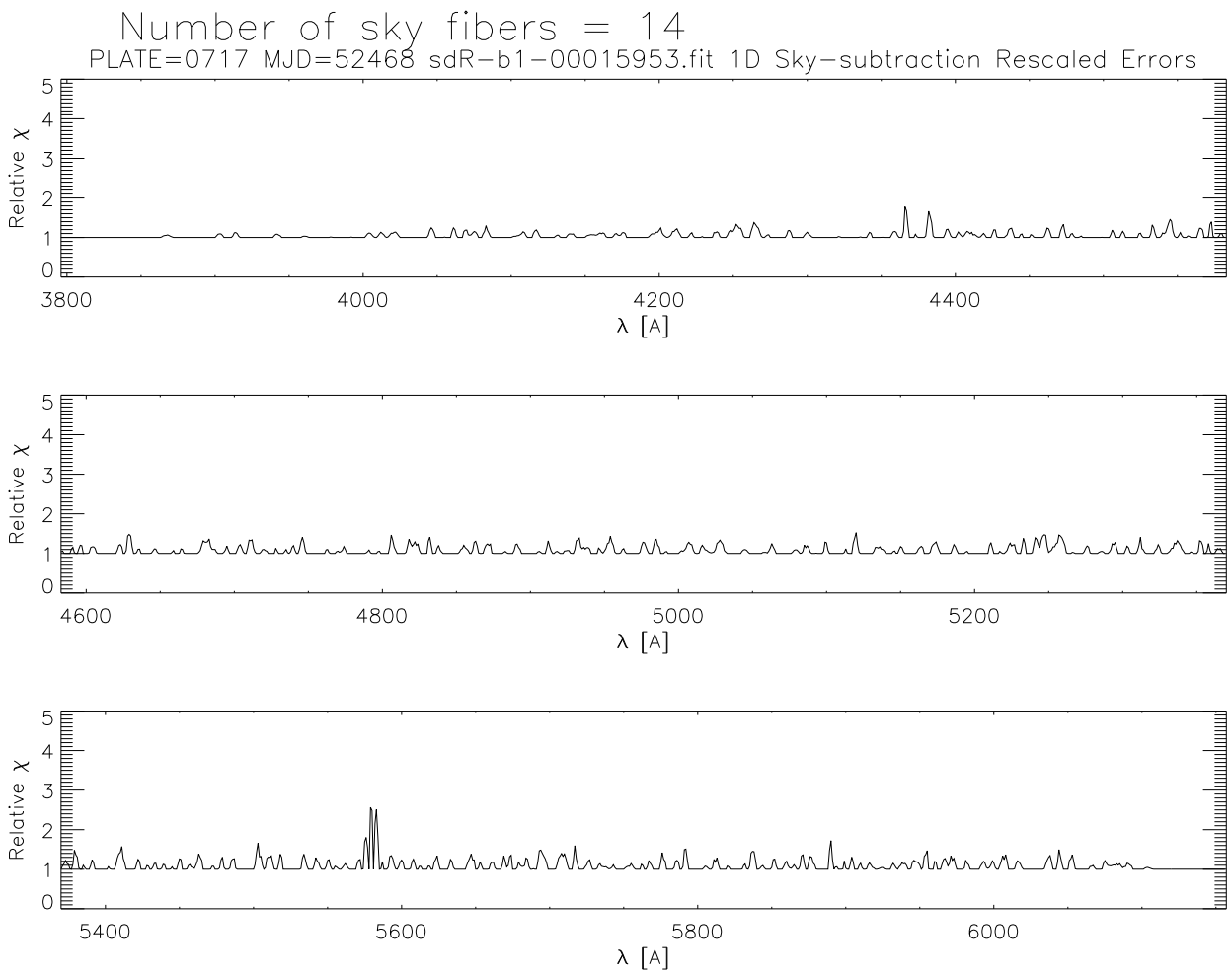
es= 0.0000

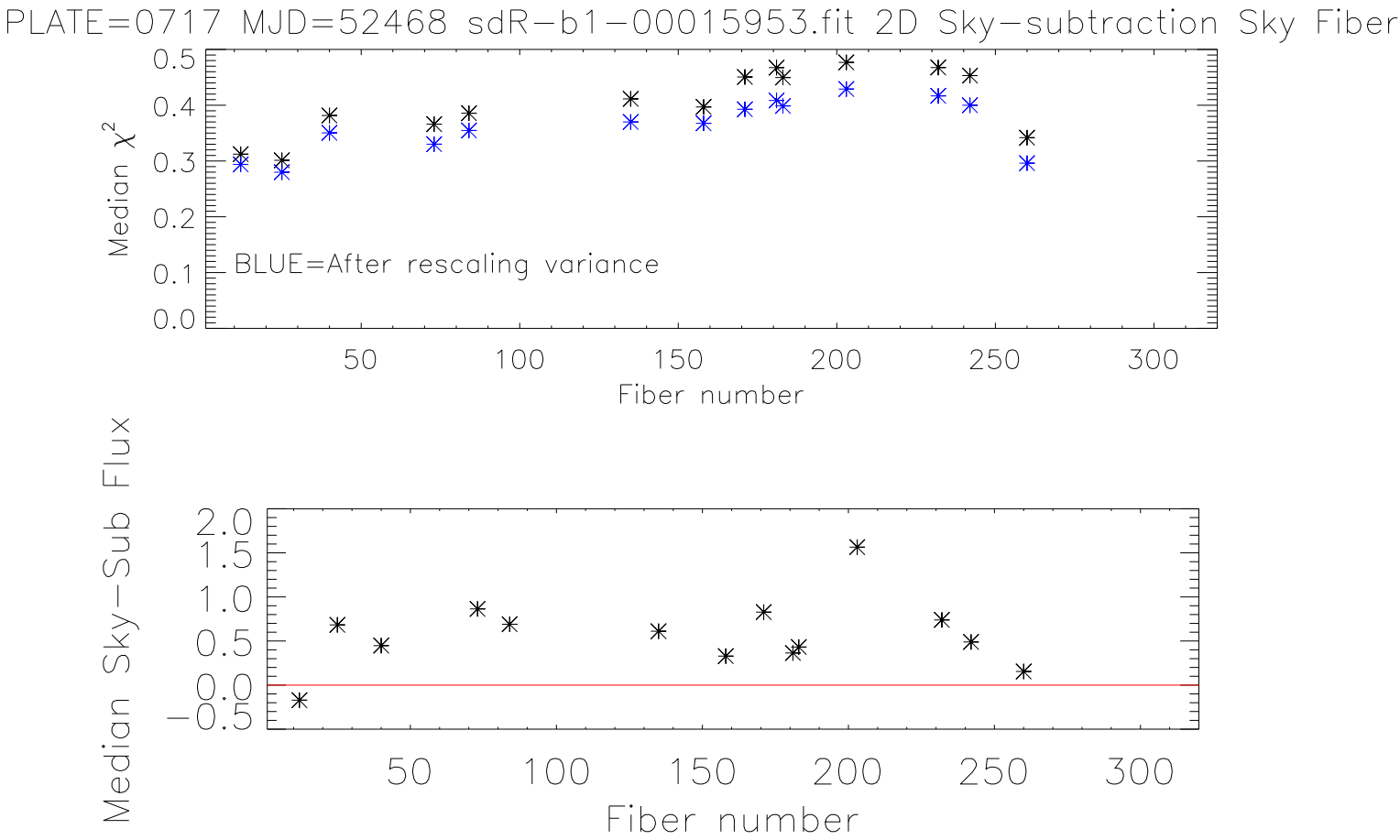

PLATE=0717 MJD=52468 Smooth superflat for sdR-b1-00015953.fit
1.5
1.0
0.5
0.0
1.015
1.010
1.005
1.000
0.995
0.990
0.985
4000
4500
5000
5500
6000
Wavelength (Å)

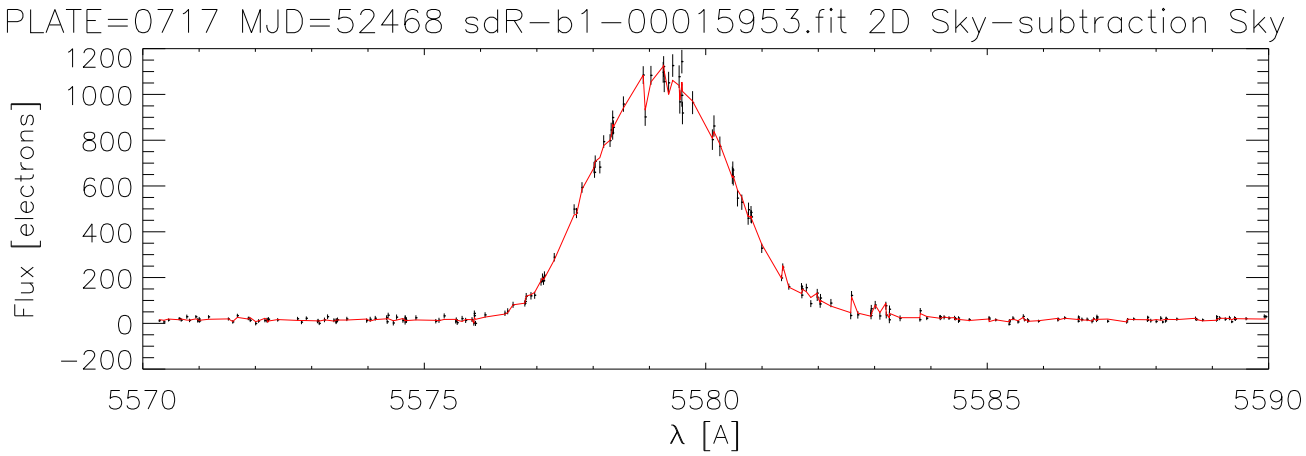

PLATE=0717 MJD=52468 sdR-b1-00015953.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

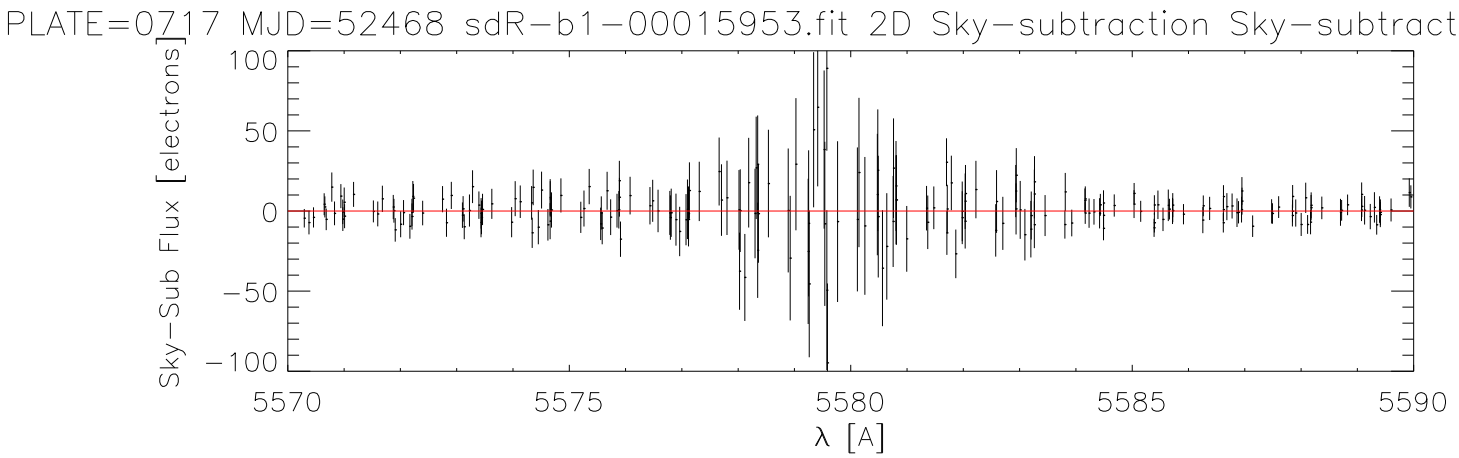

PLATE=0717 MJD=52468 sdR-b1-00015953.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1200
1000
800
600
400
200
0
-200
5570
5575
5580
5585
5590
λ [A]

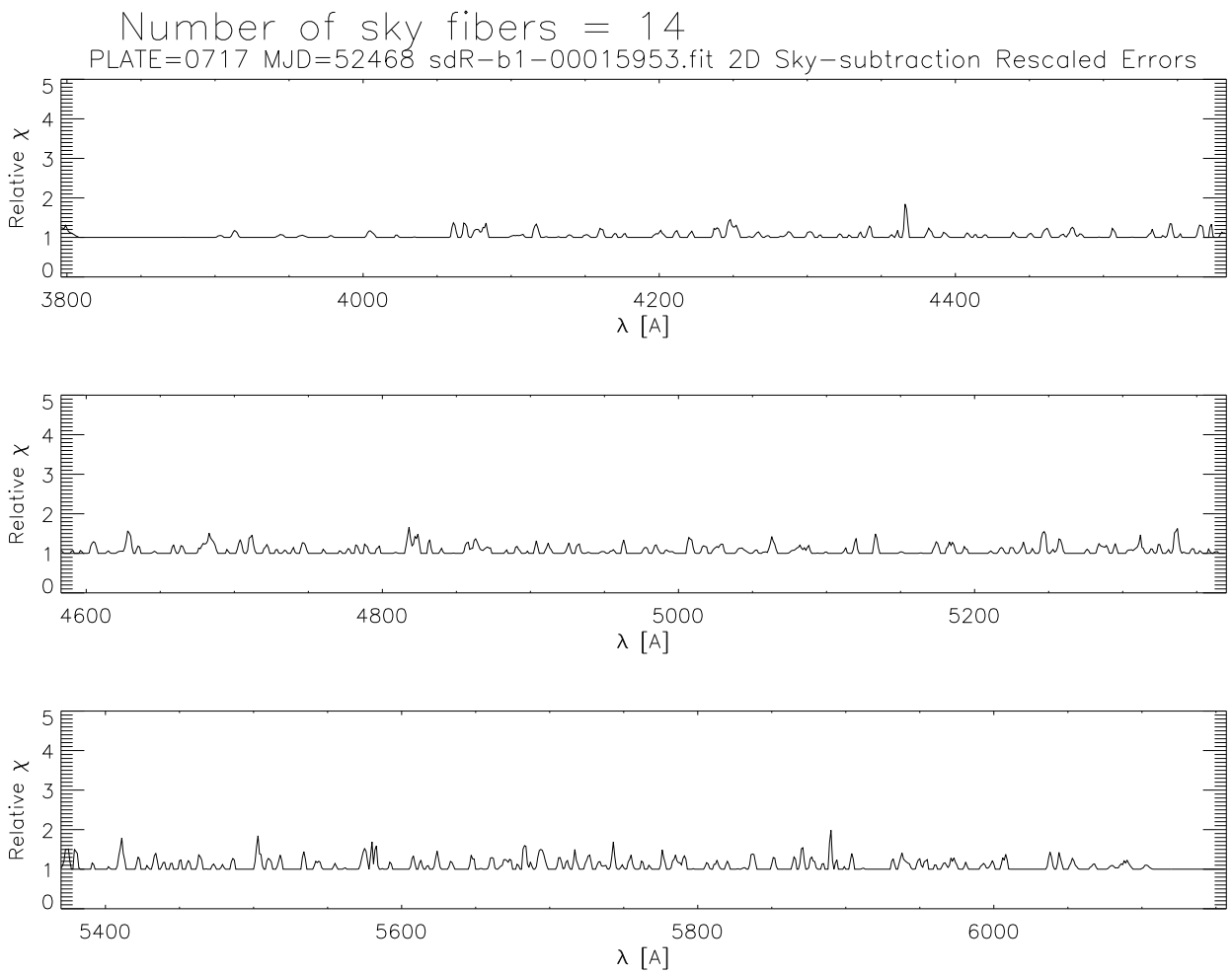

PLATE=0717 MJD=52468 sdR-b1-00015953.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
5570
5575
5580
5585
5590
λ [A]

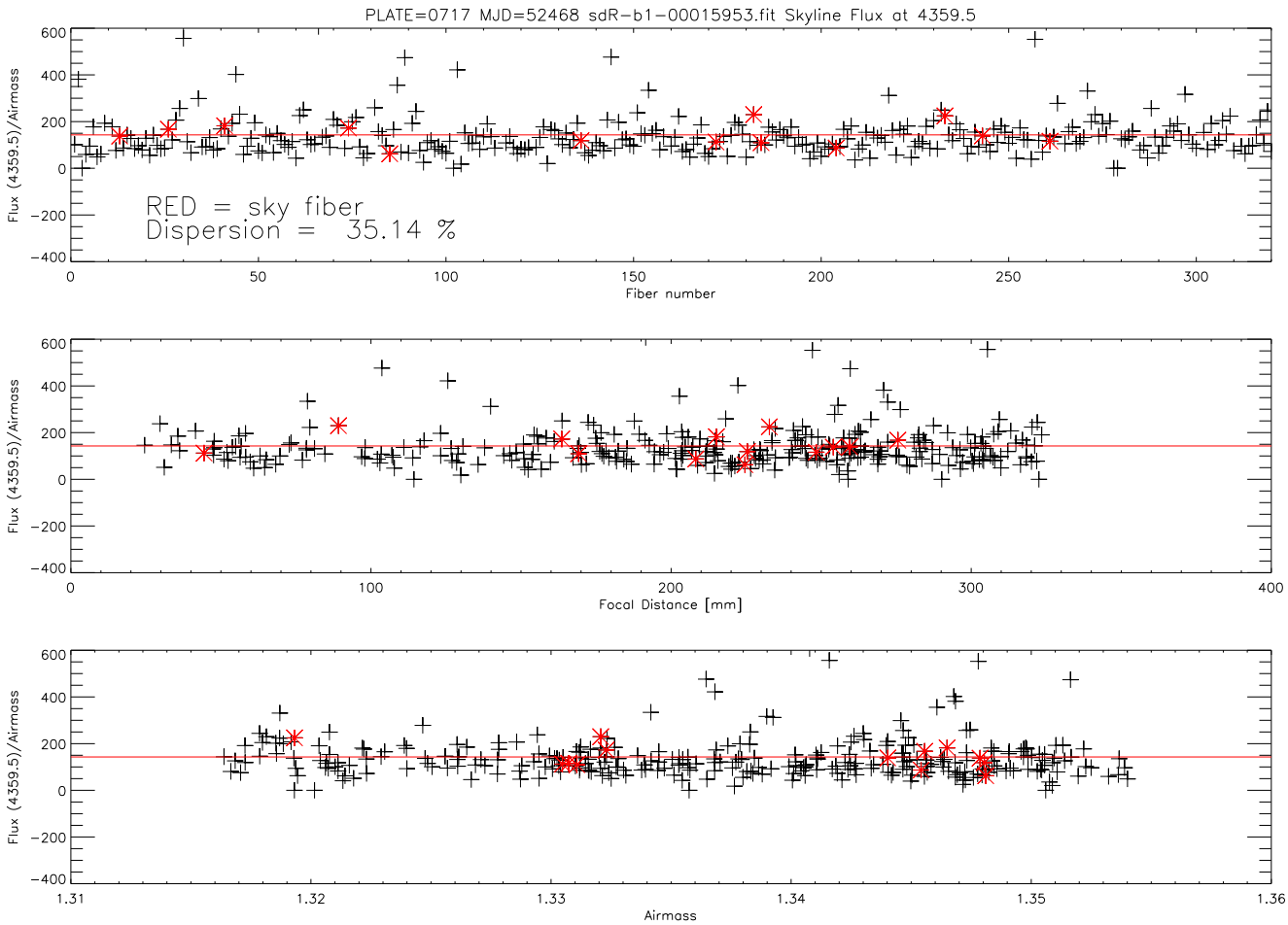

Number of sky fibers = 14
PLATE=0717 MJD=52468 sdR-b1-00015953.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

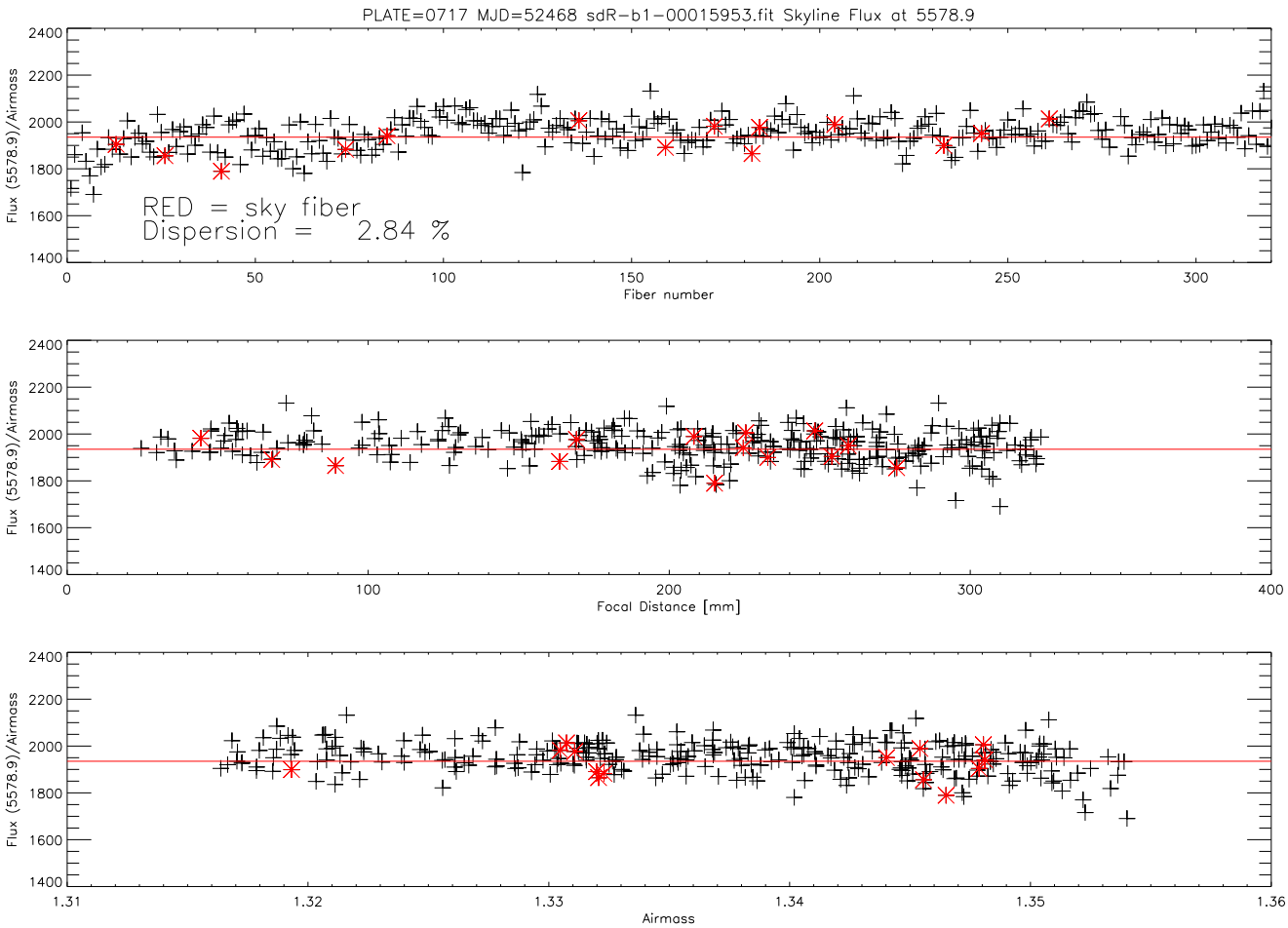

PLATE=0717 MJD=52468 sdR-b1-00015953.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

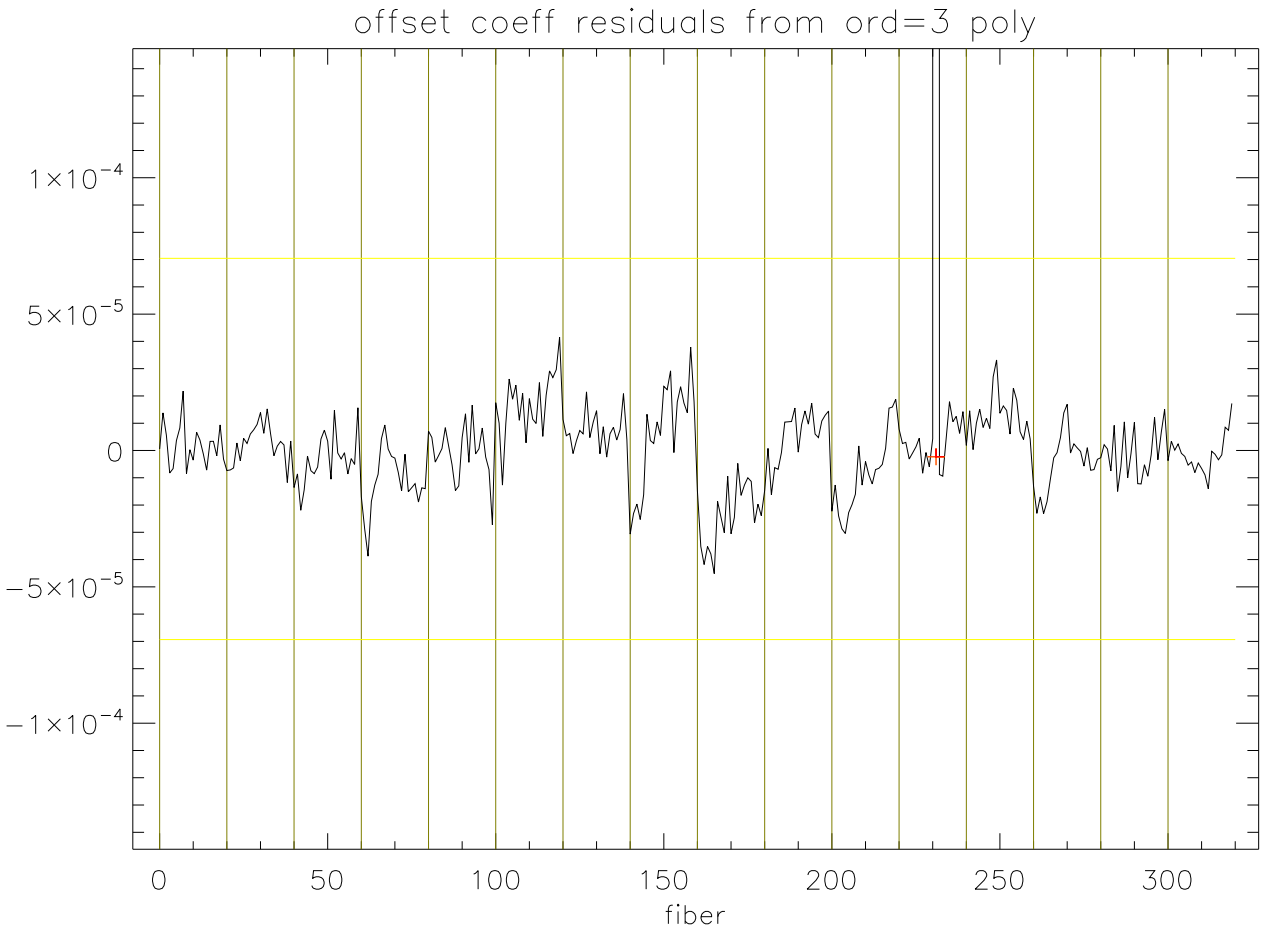

PLATE=0717 MJD=52468 sdR-b1-00015953.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1200
1000
800
600
400
200
0
-200
5570
5575
5580
5585
5590
λ [A]

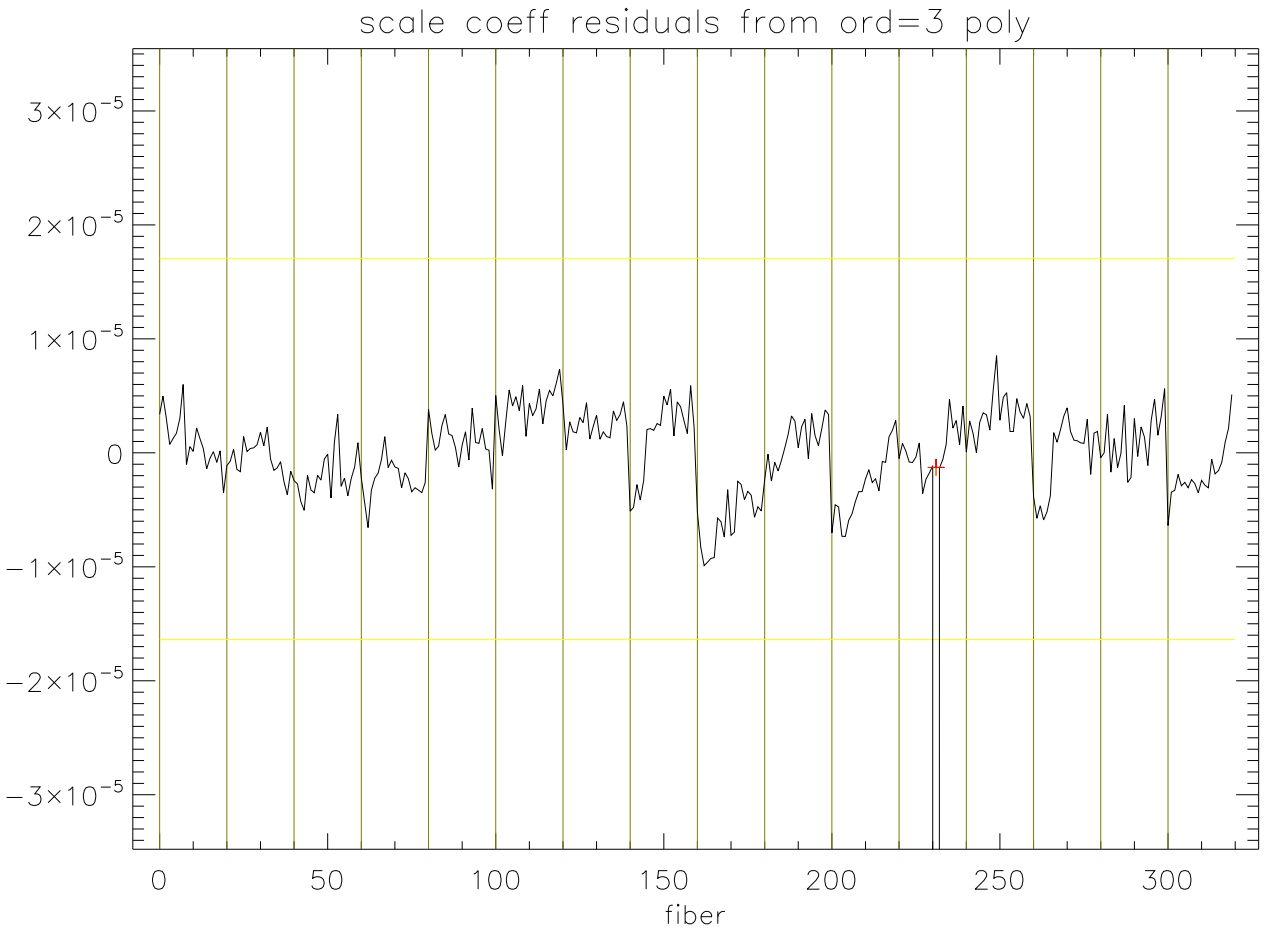

PLATE=0717 MJD=52468 sdR-b1-00015953.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
5570
5575
5580
5585
5590
λ [A]

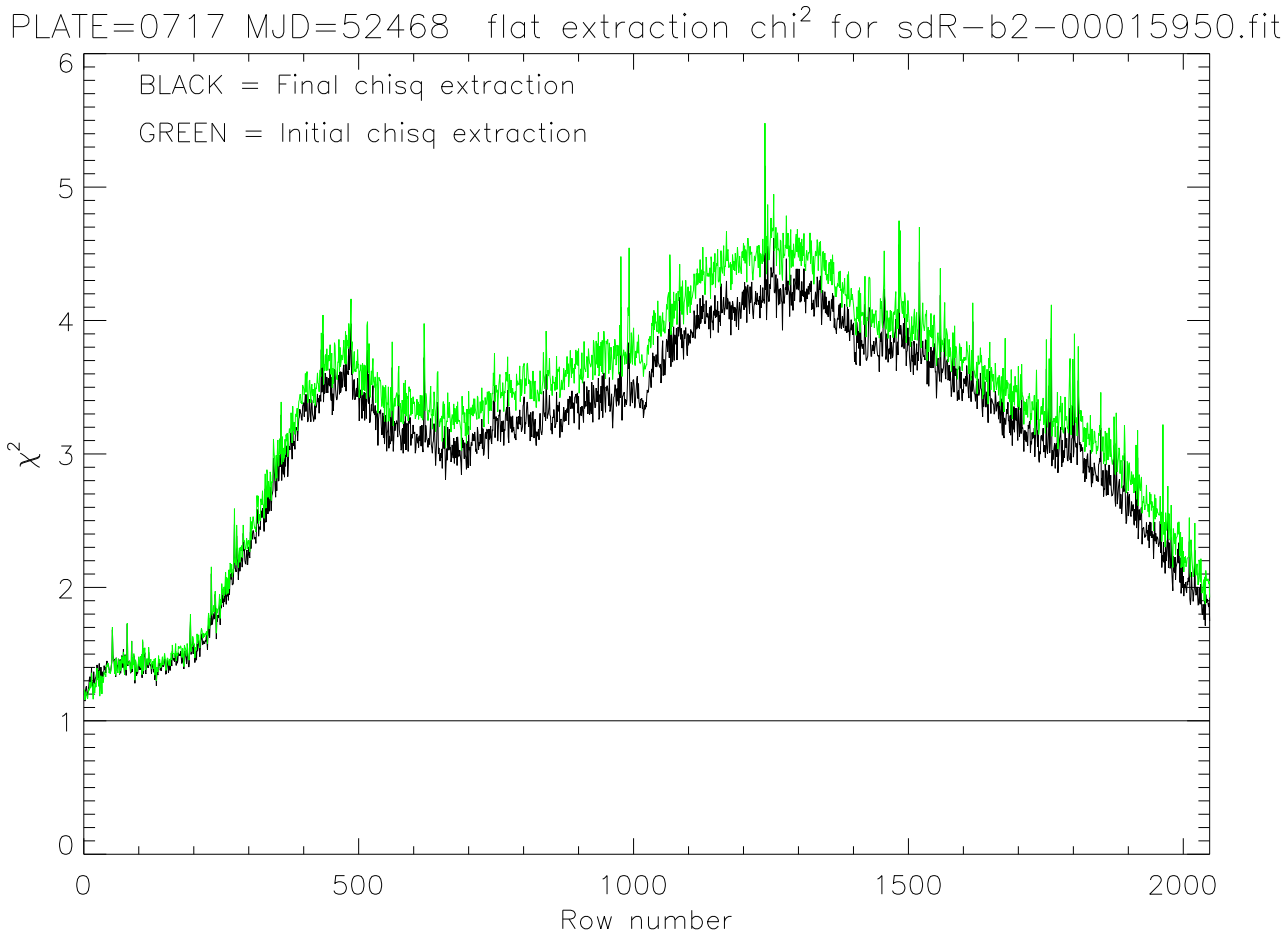

Number of sky fibers = 14
PLATE=0717 MJD=52468 sdR-b1-00015953.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

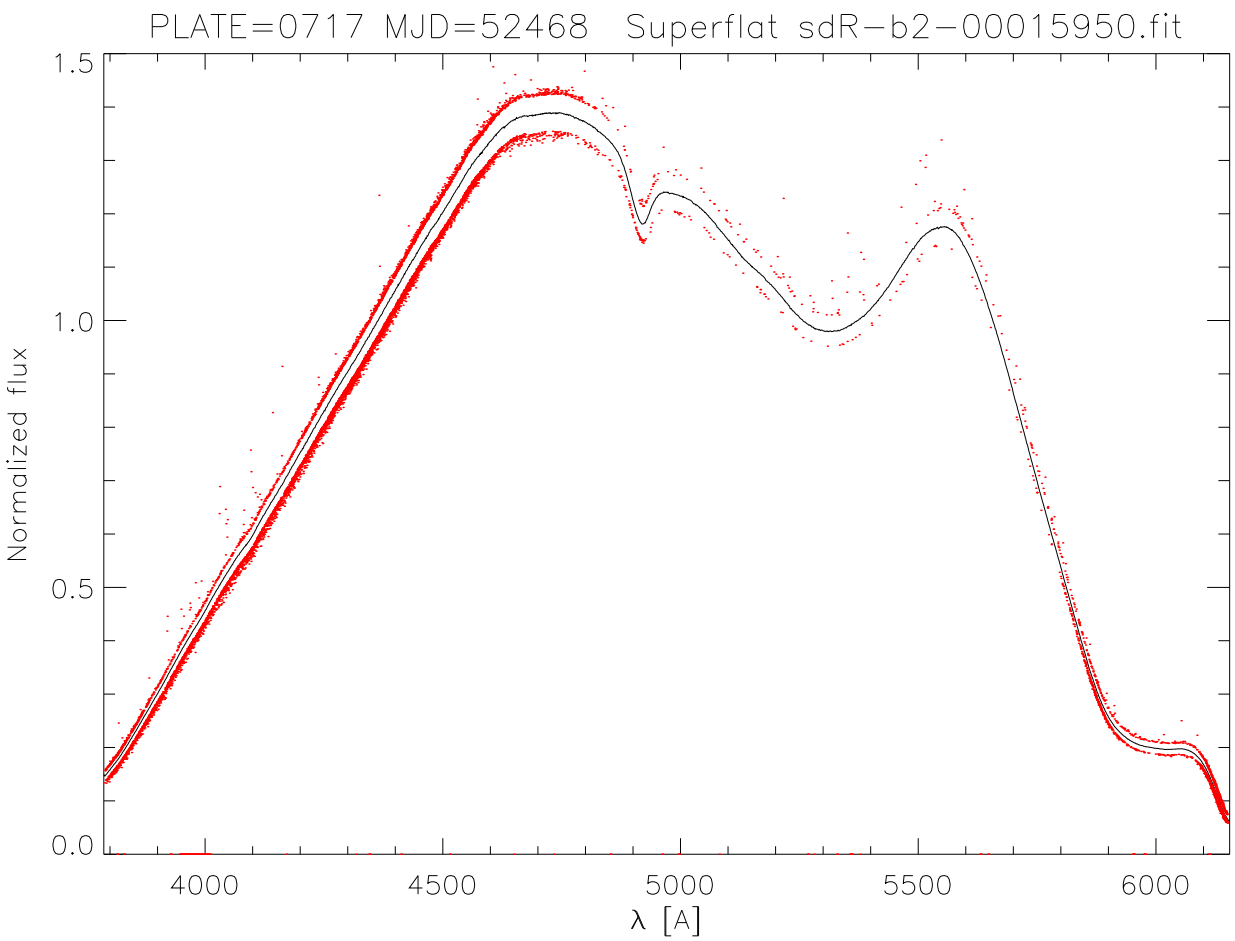

PLATE=0717 MJD=52468 sdR-b1-00015953.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 35.14 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

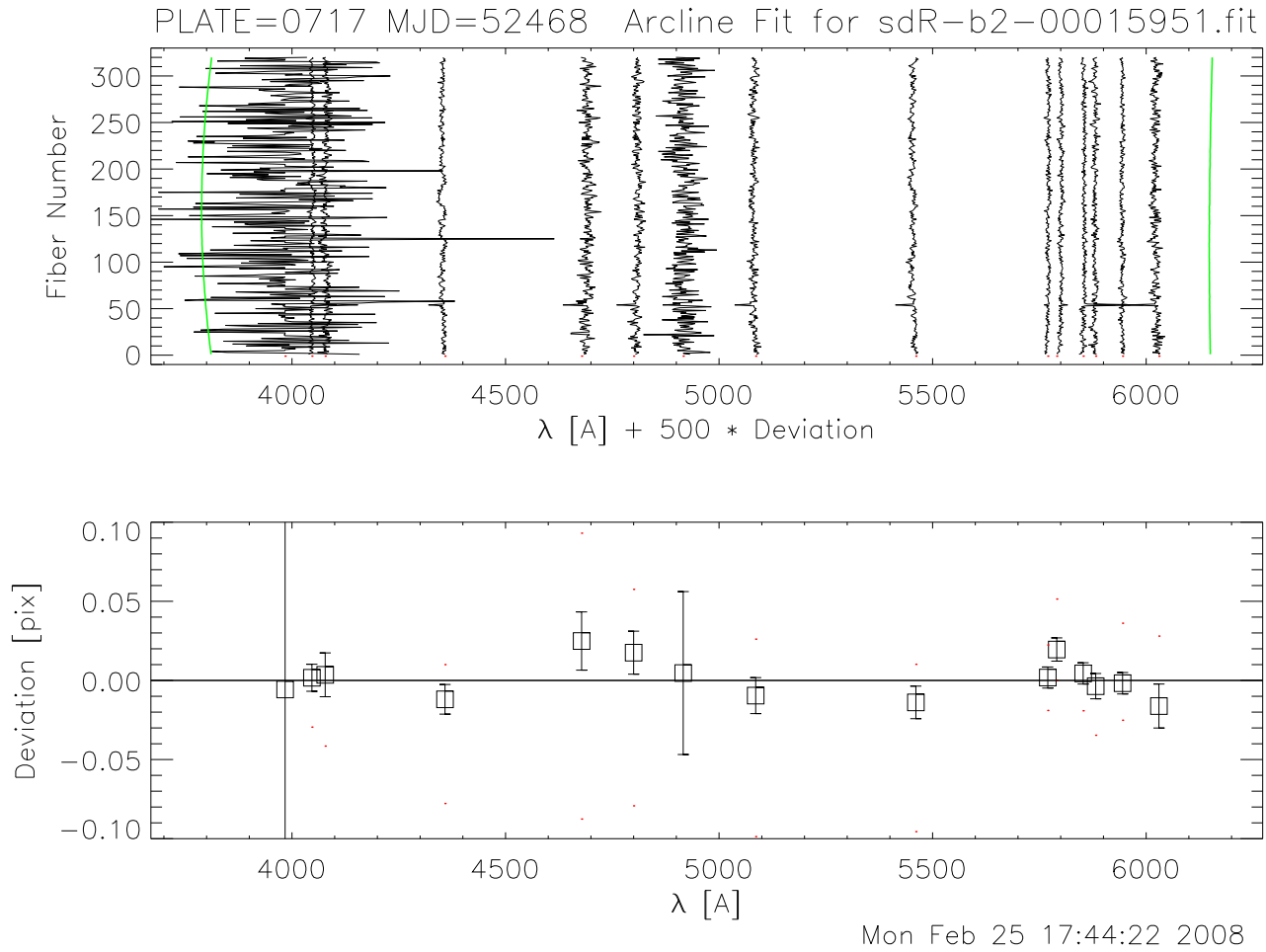

PLATE=0717 MJD=52468 sdR-b1-00015953.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.84 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

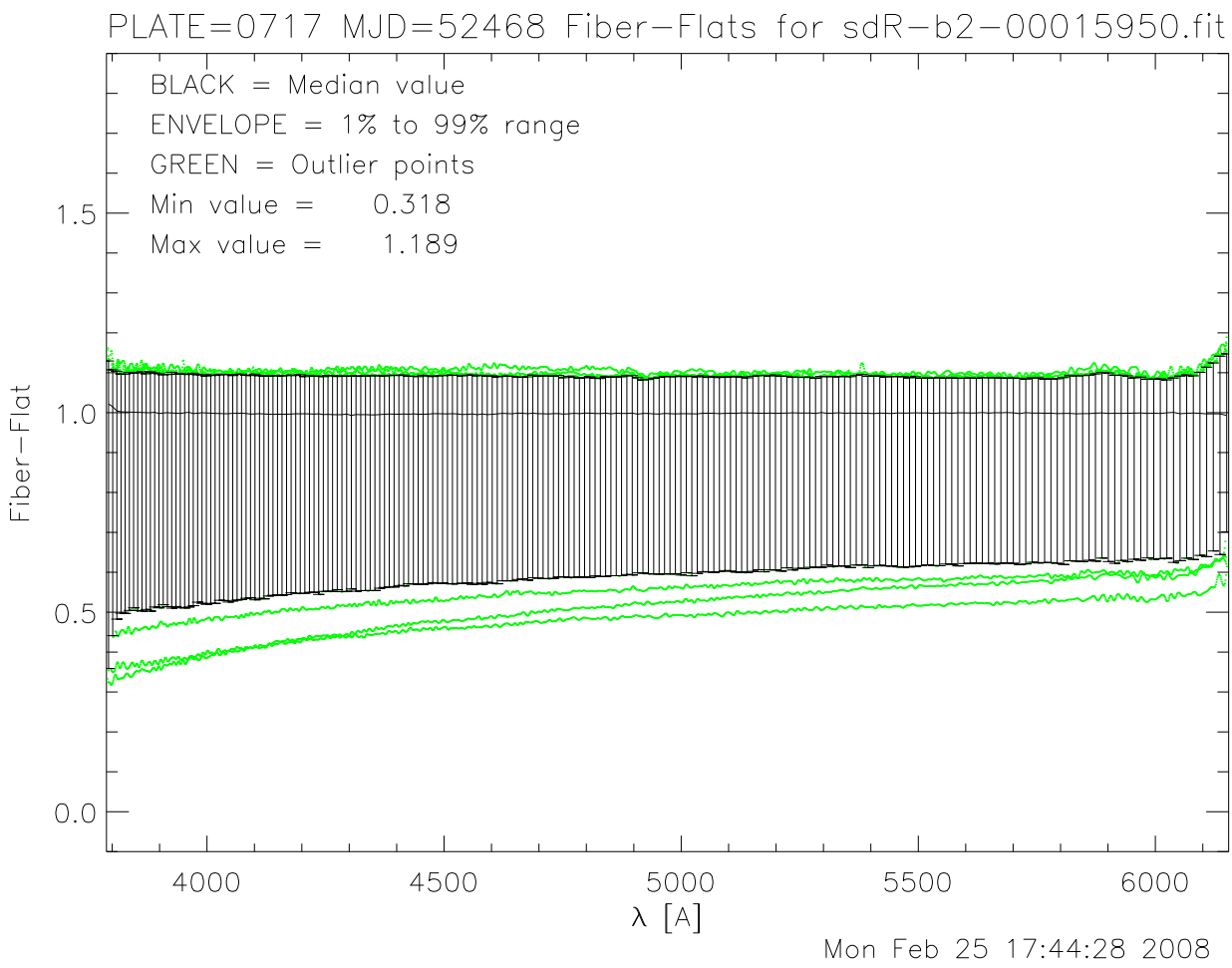

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

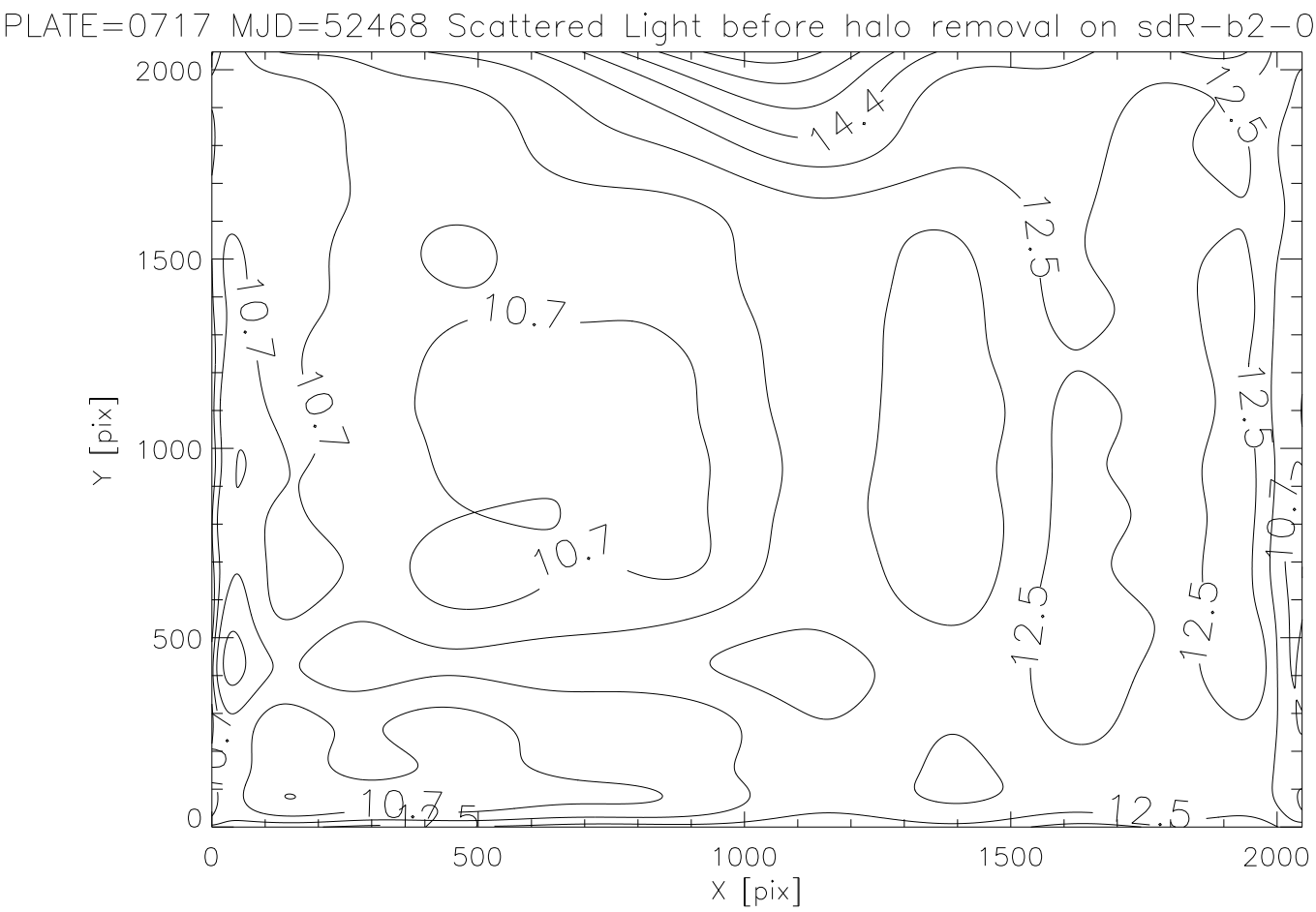

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

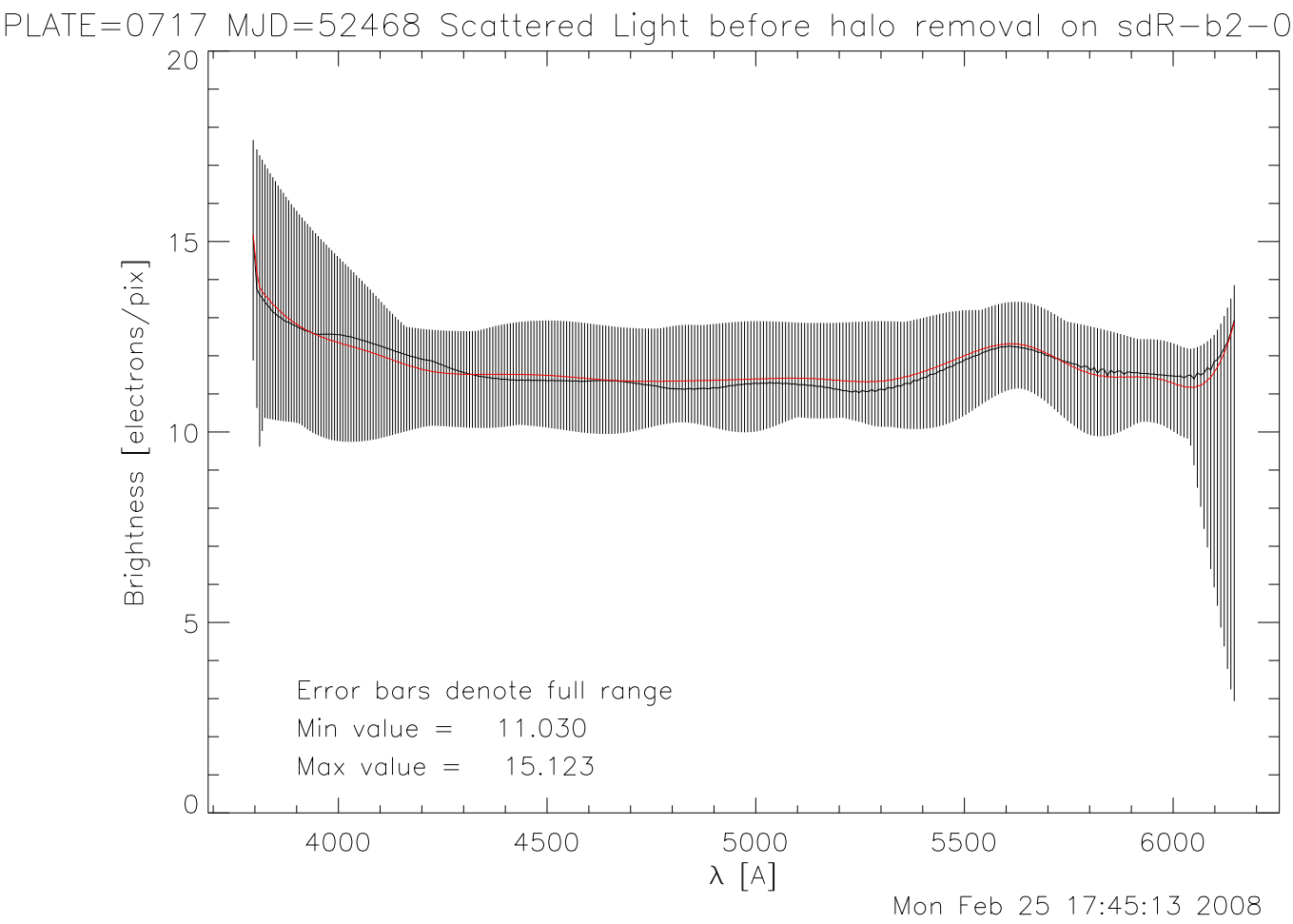

PLATE=0717 MJD=52468 flat extraction chi^2 for sdR−b2−00015950.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
6
0
500
1000
1500
2000

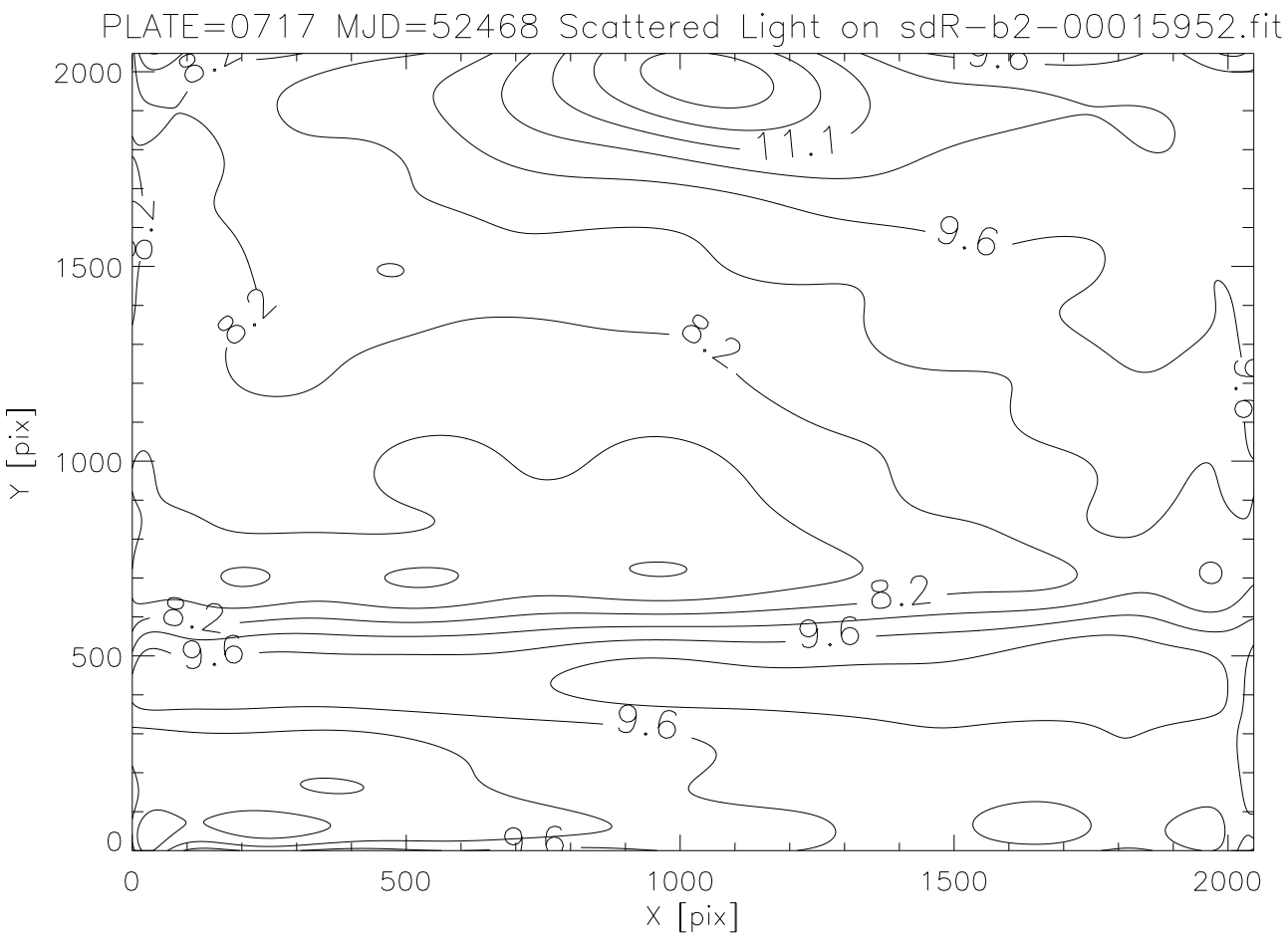

PLATE=0717 MJD=52468 Superflat sdR-b2-00015950.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

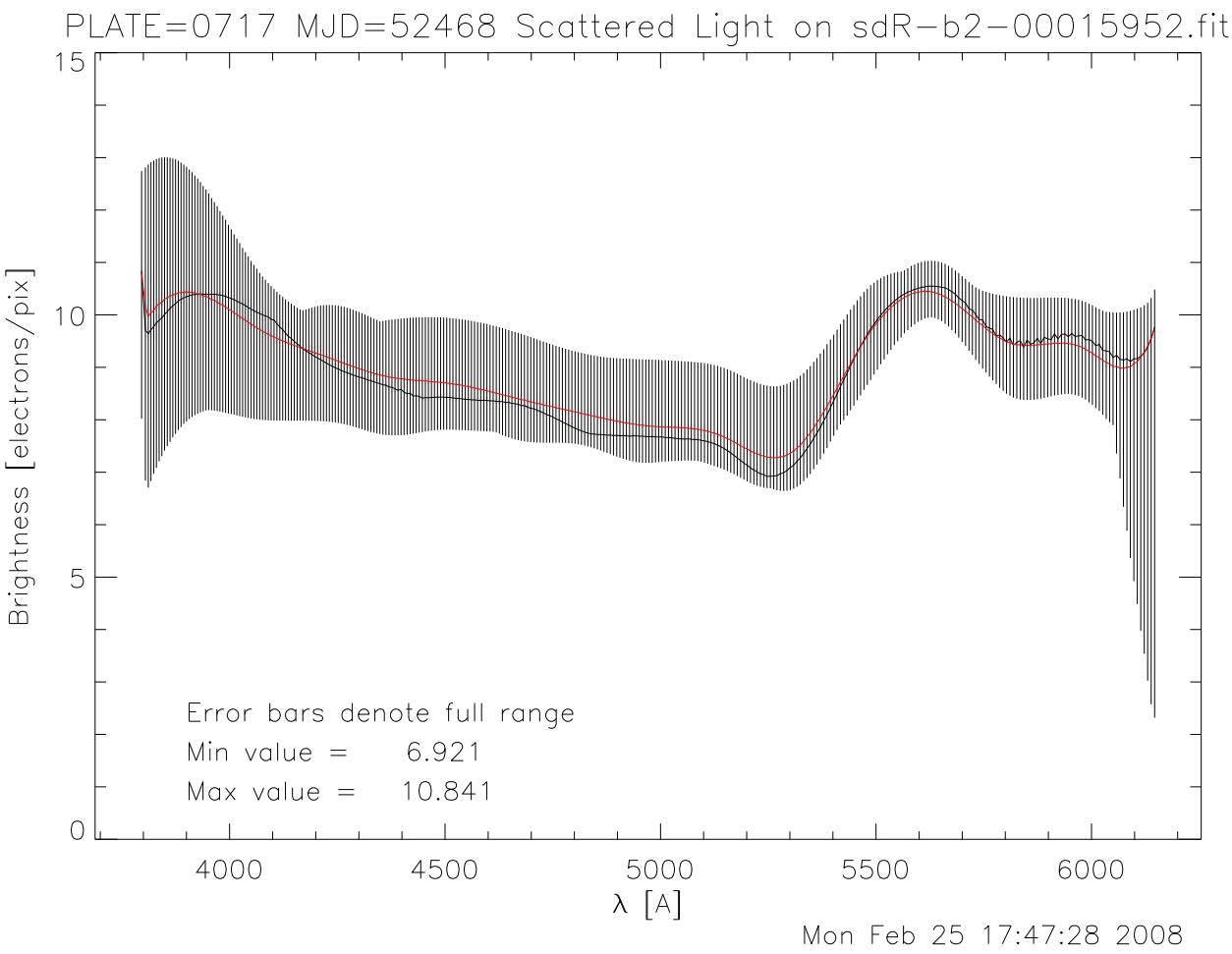

PLATE=0717 MJD=52468 Arcline Fit for sdR-b2-00015951.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 17:44:22 2008


PLATE=0717 MJD=52468 Fiber-Flats for sdR-b2-00015950.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.318
Max value = 1.189
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 17:44:28 2008


PLATE=0717 MJD=52468 Scattered Light before halo removal on sdR-b2-00015952.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
14.4
12.5
10.7


PLATE=0717 MJD=52468 Scattered Light before halo removal on sdR-b2-00015952.f
Brightness [electrons/pix]
20
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 11.030
Max value = 15.123
Mon Feb 25 17:45:13 2008


PLATE=0717 MJD=52468 Scattered Light on sdR-b2-00015952.fit
11.1
9.6
8.2
8.2
8.2
8.2
9.6
9.6
9.6
9.6
Y [pix]
X [pix]
0
500
1000
1500
2000


PLATE=0717 MJD=52468 Scattered Light on sdR-b2-00015952.fit
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 6.921
Max value = 10.841
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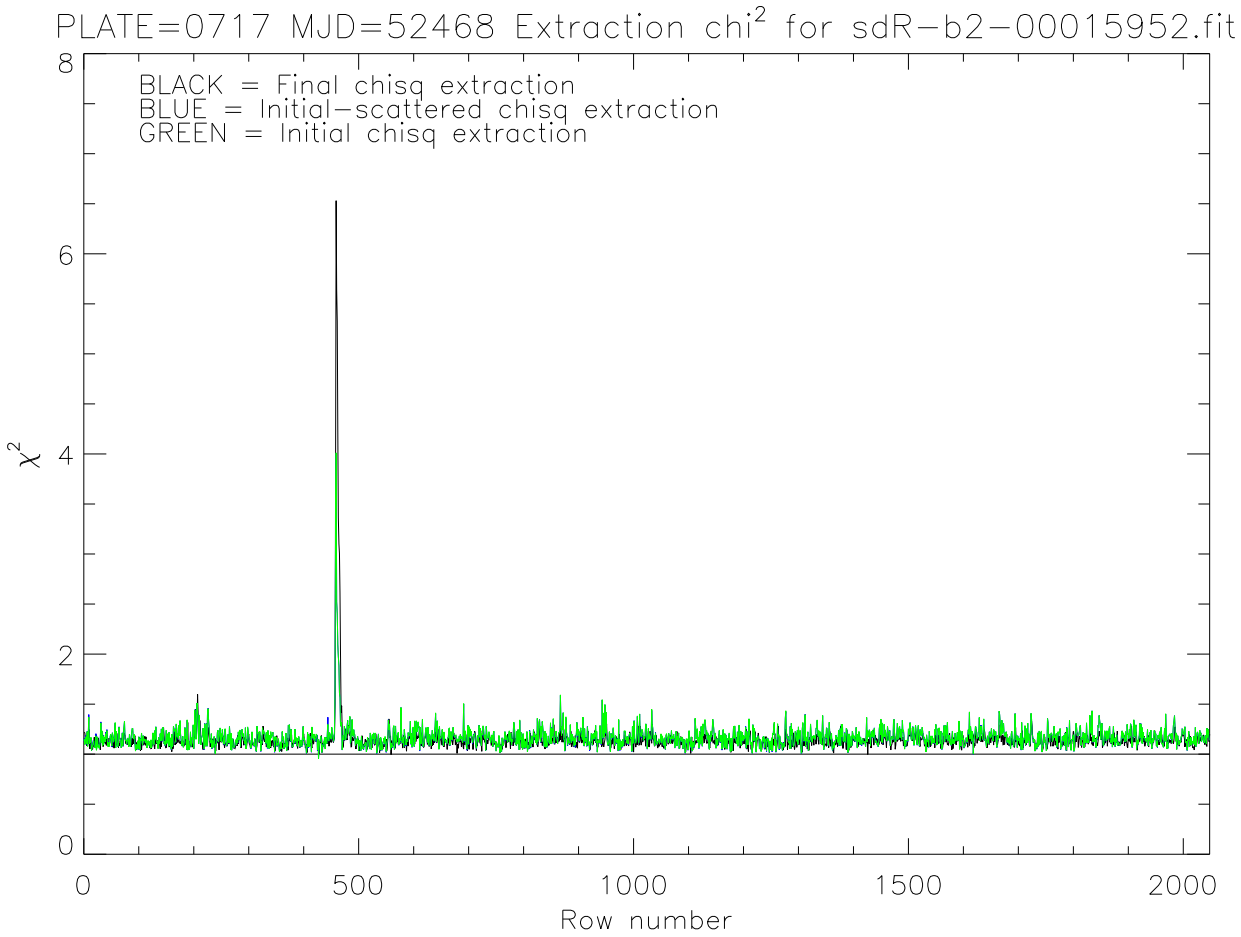
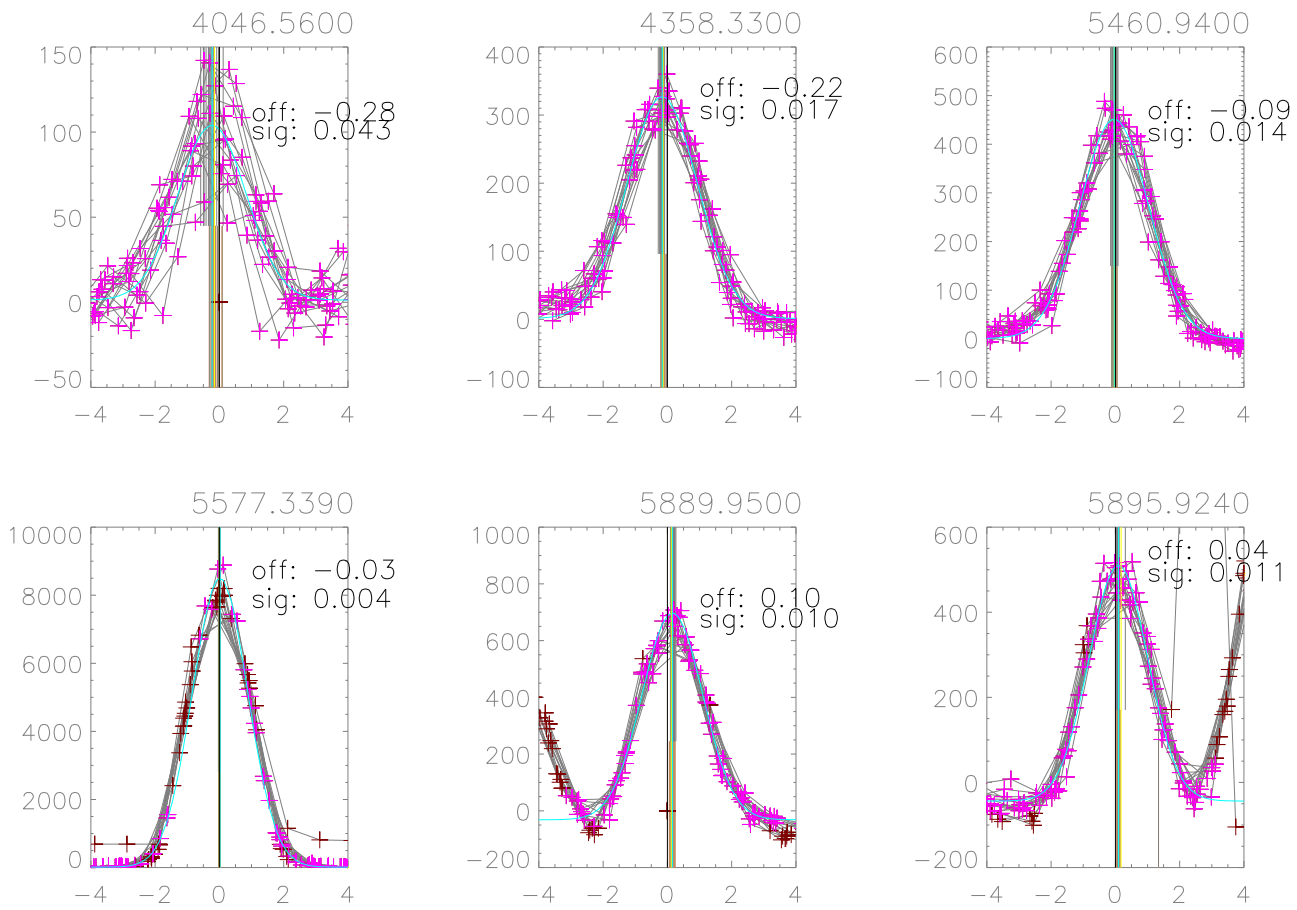
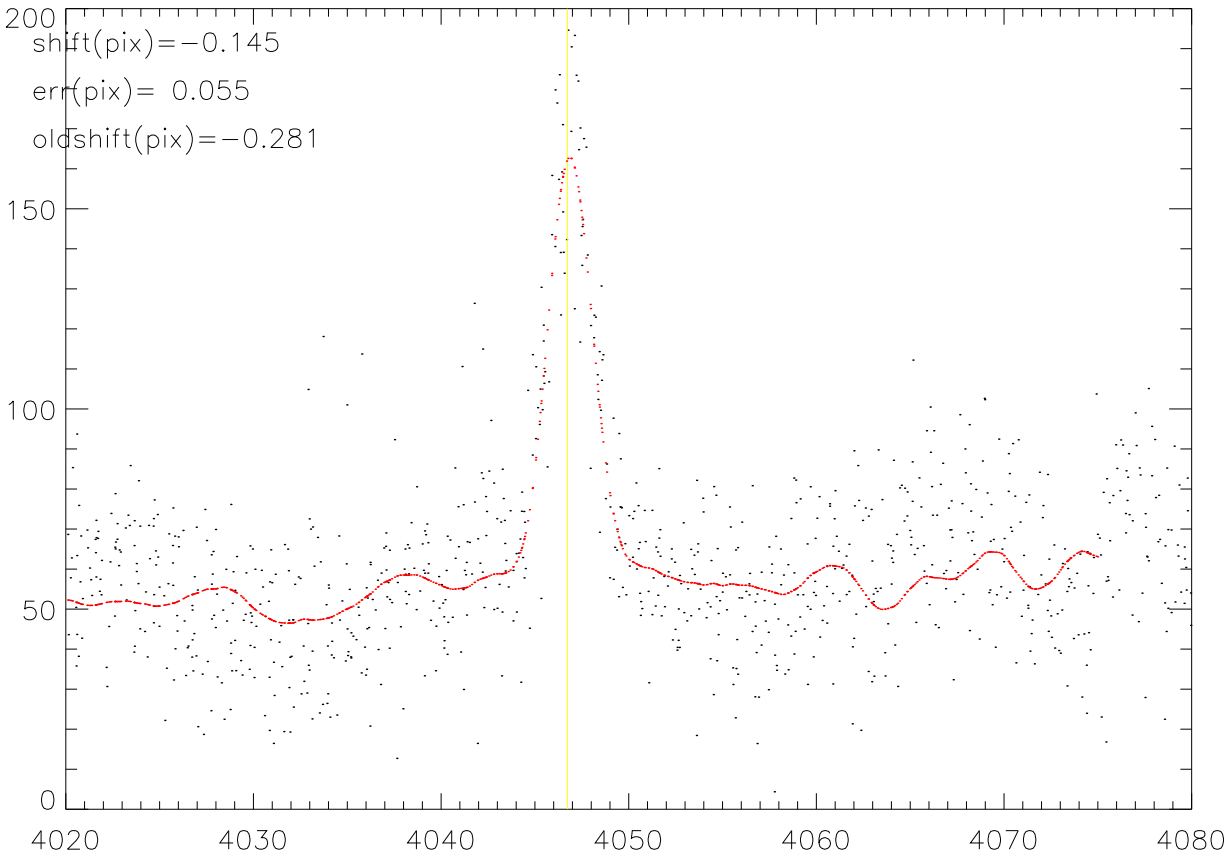
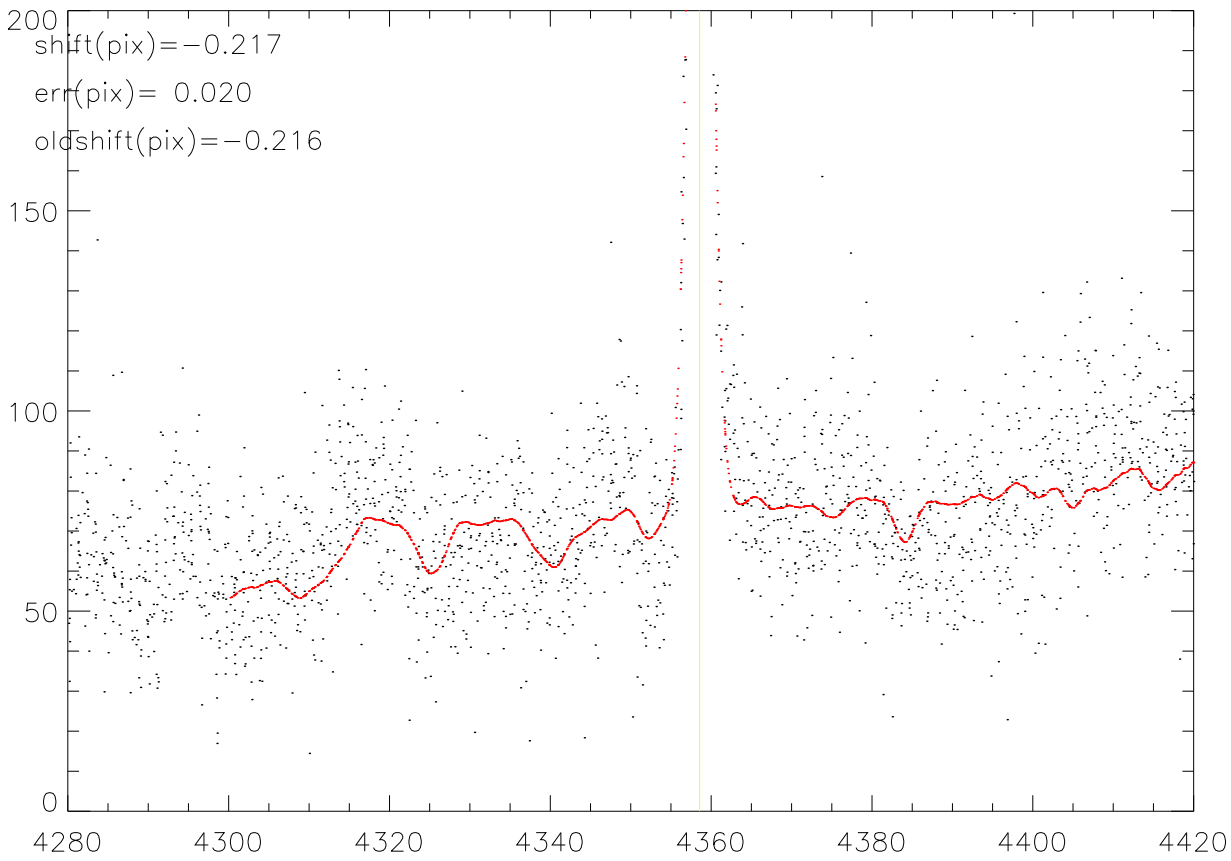
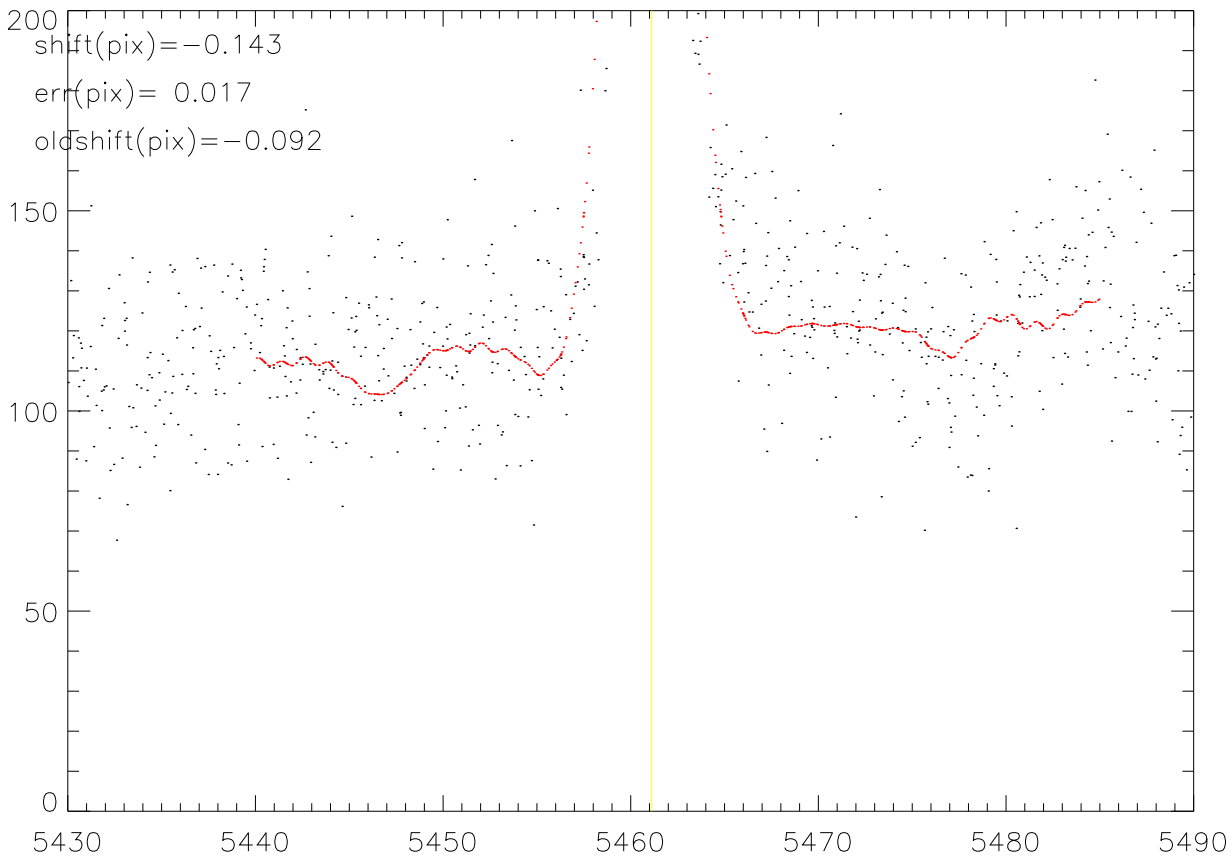
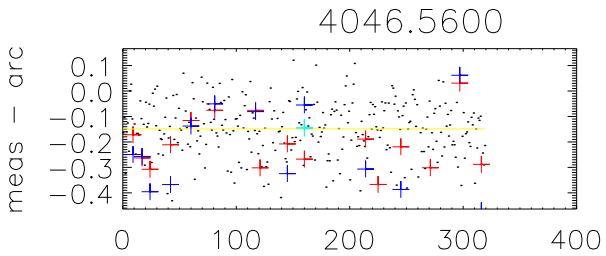

PLATE=0717 MJD=52468 Extraction chi^2 for sdR-b2-00015952.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

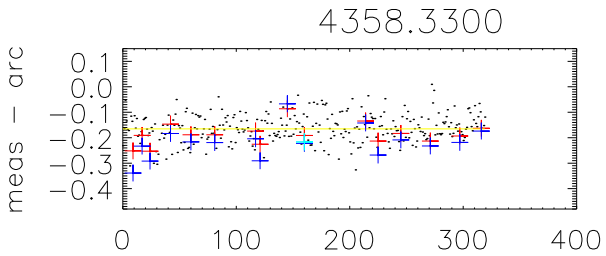

4046.5600
off: −0.28
sig: 0.043
4358.3300
off: −0.22
sig: 0.017
5460.9400
off: −0.09
sig: 0.014
5577.3390
off: −0.03
sig: 0.004
5889.9500
off: 0.10
sig: 0.010
5895.9240
off: 0.04
sig: 0.011

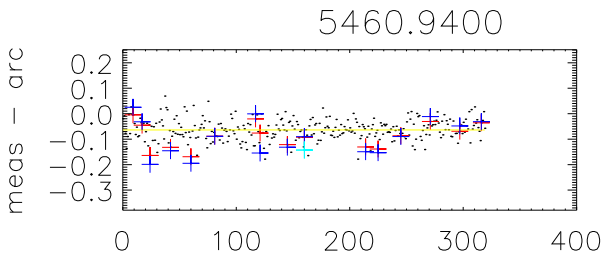

shift(pix)=−0.145
err(pix)= 0.055
oldshift(pix)=−0.281
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

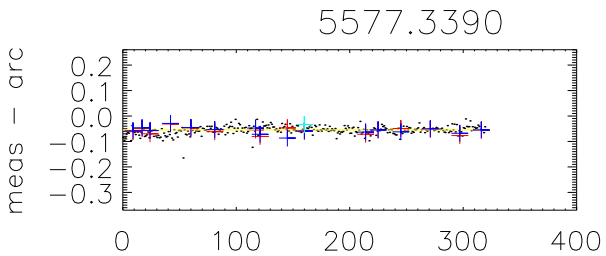

shift(pix)=−0.217
err(pix)= 0.020
oldshift(pix)=−0.216
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

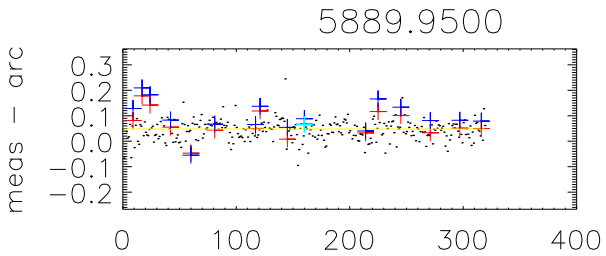

shift(pix)=−0.143
err(pix)= 0.017
oldshift(pix)=−0.092
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

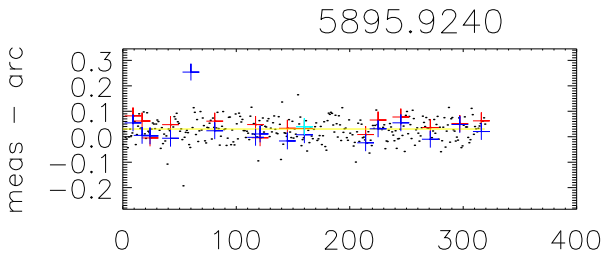

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

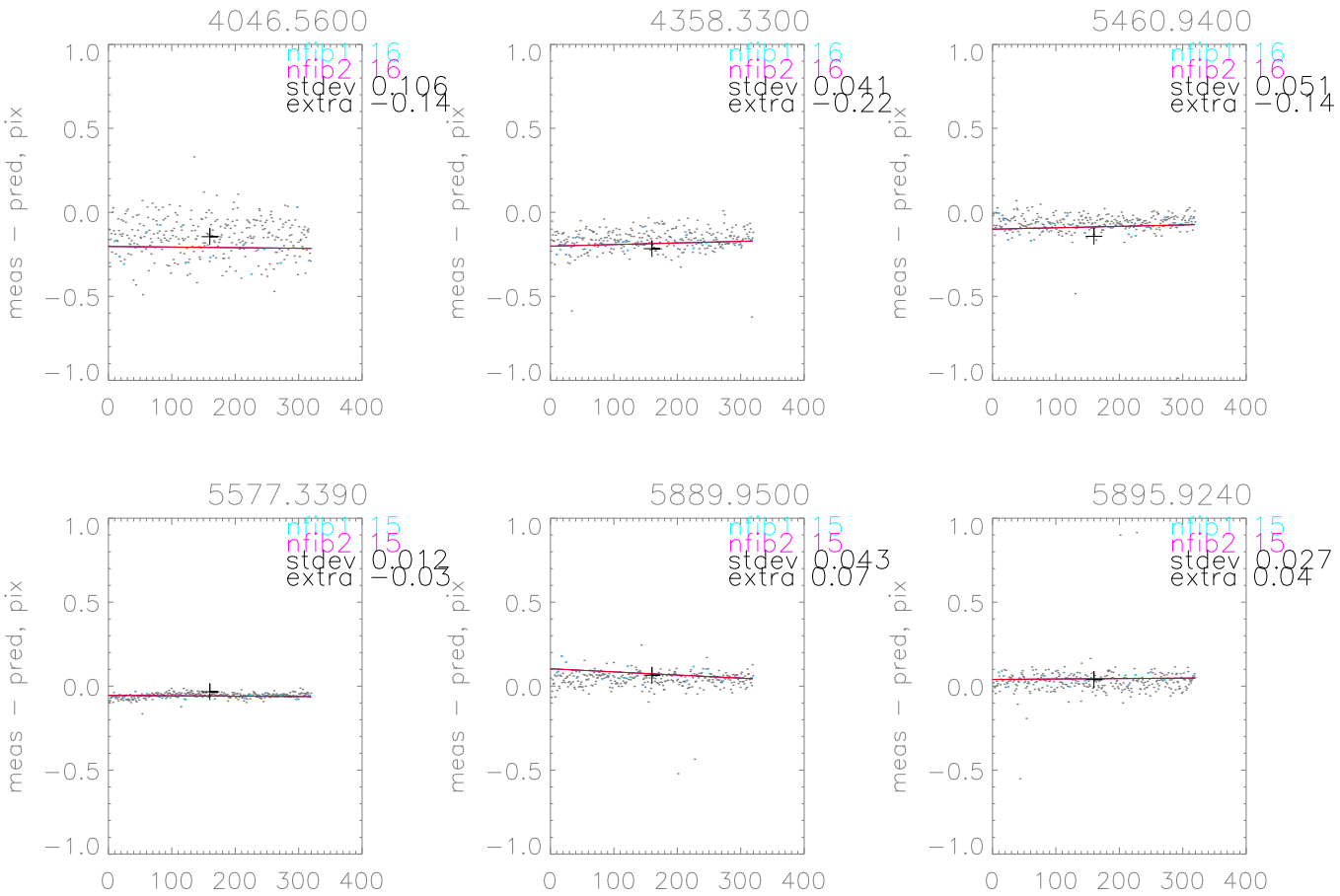

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

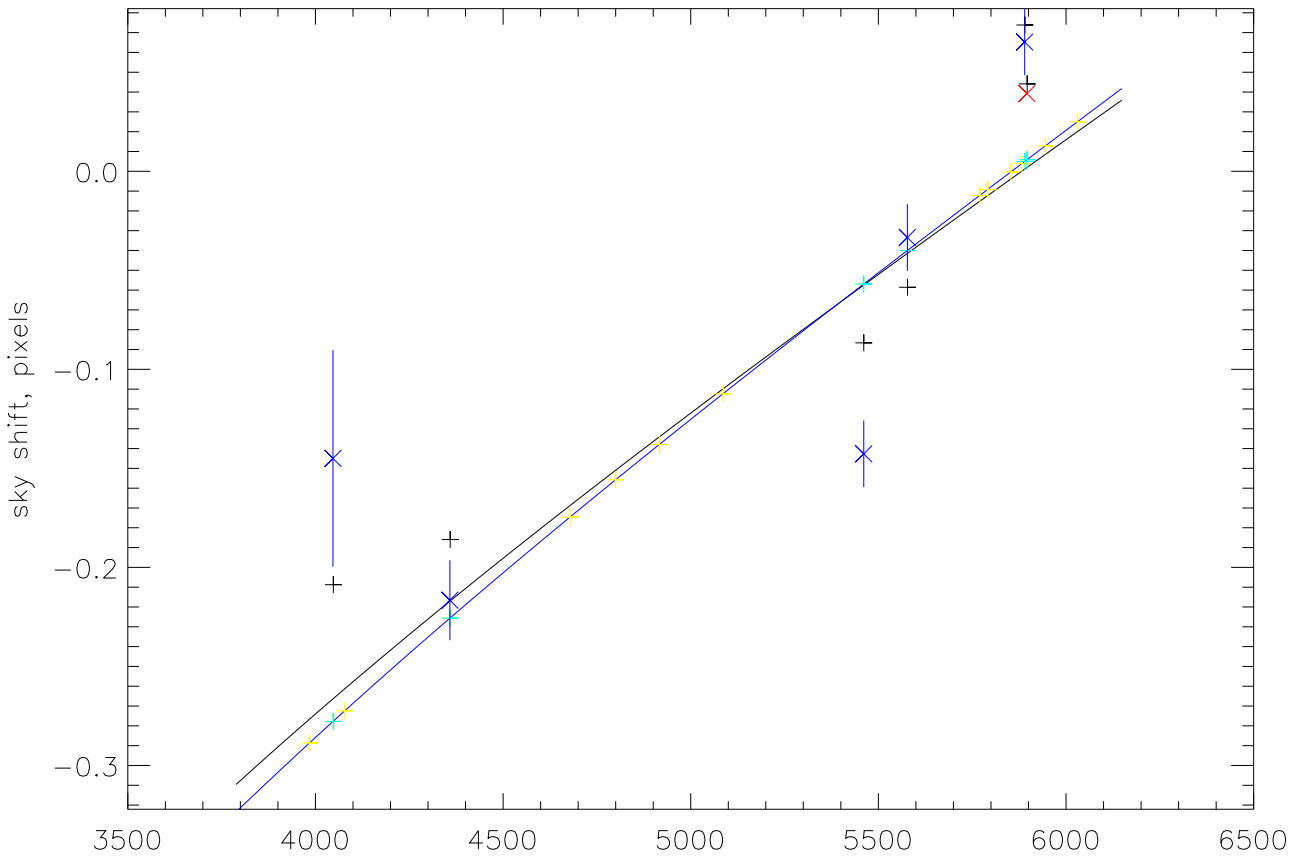

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

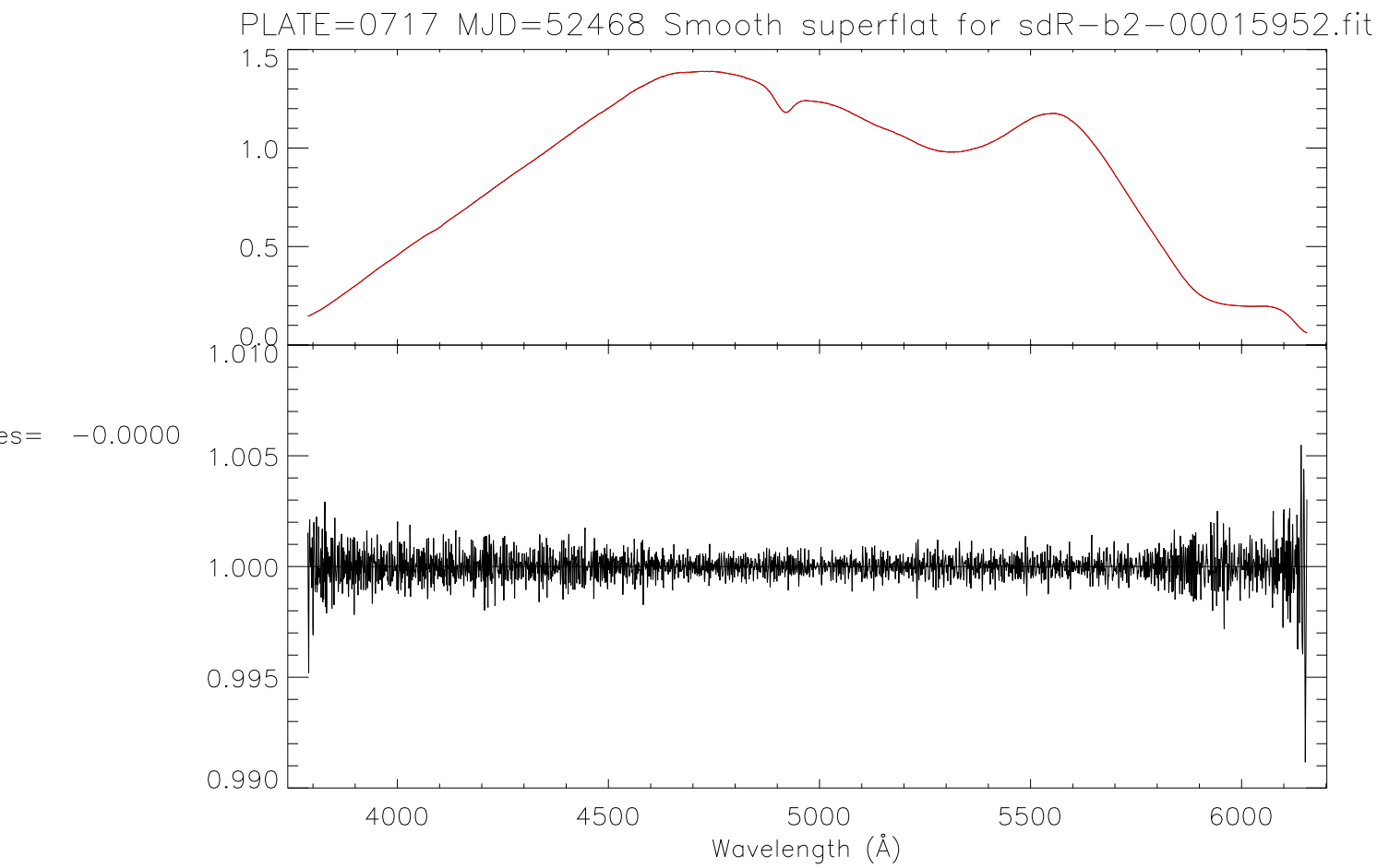

5577.3390
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

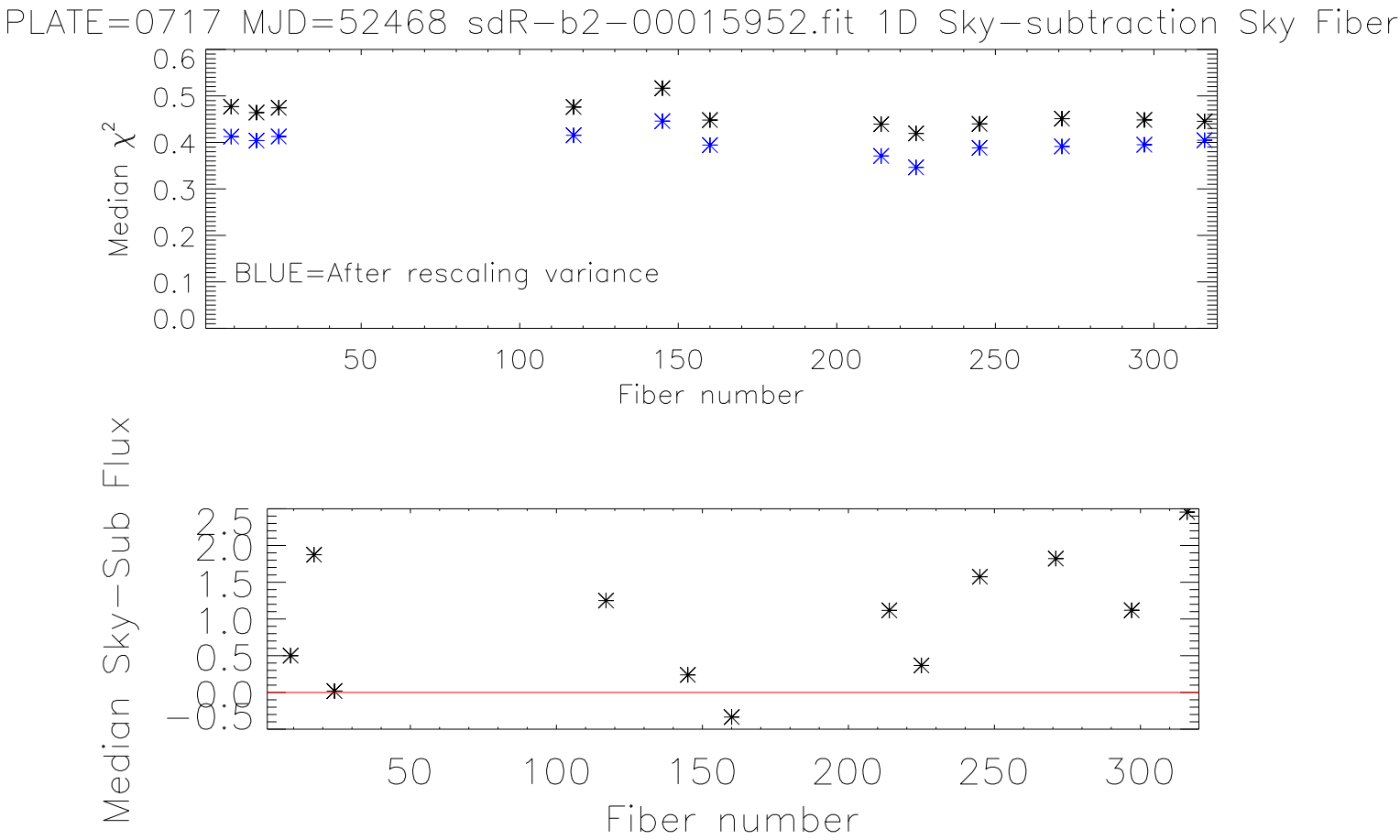

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

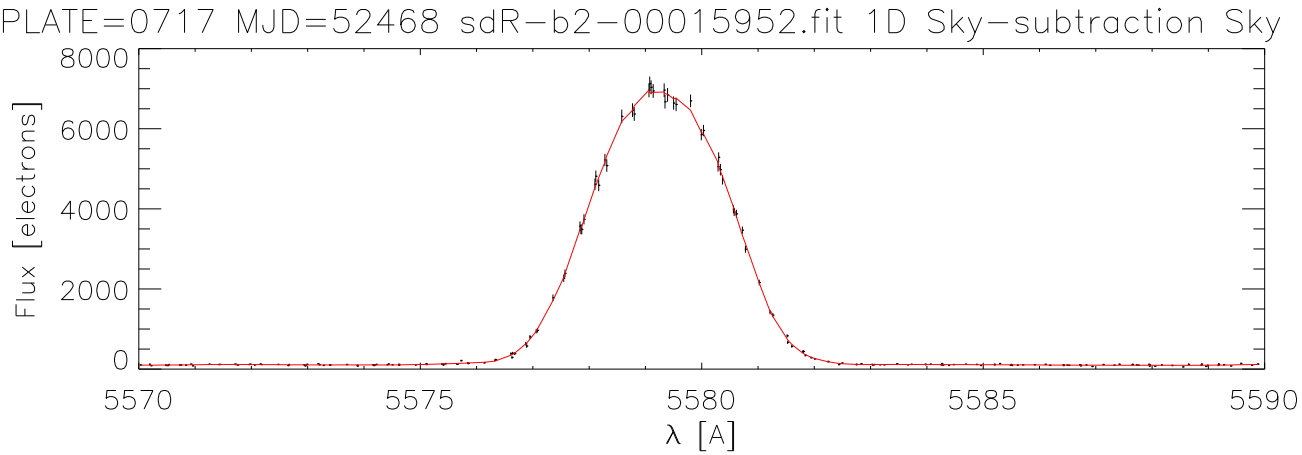

4046.5600
nfib1 16
nfib2 16
stdev 0.106
extra −0.14
4358.3300
nfib1 16
nfib2 16
stdev 0.041
extra −0.22
5460.9400
nfib1 16
nfib2 16
stdev 0.051
extra −0.14
5577.3390
nfib1 15
nfib2 15
stdev 0.012
extra −0.03
5889.9500
nfib1 15
nfib2 15
stdev 0.043
extra 0.07
5895.9240
nfib1 15
nfib2 15
stdev 0.027
extra 0.04
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

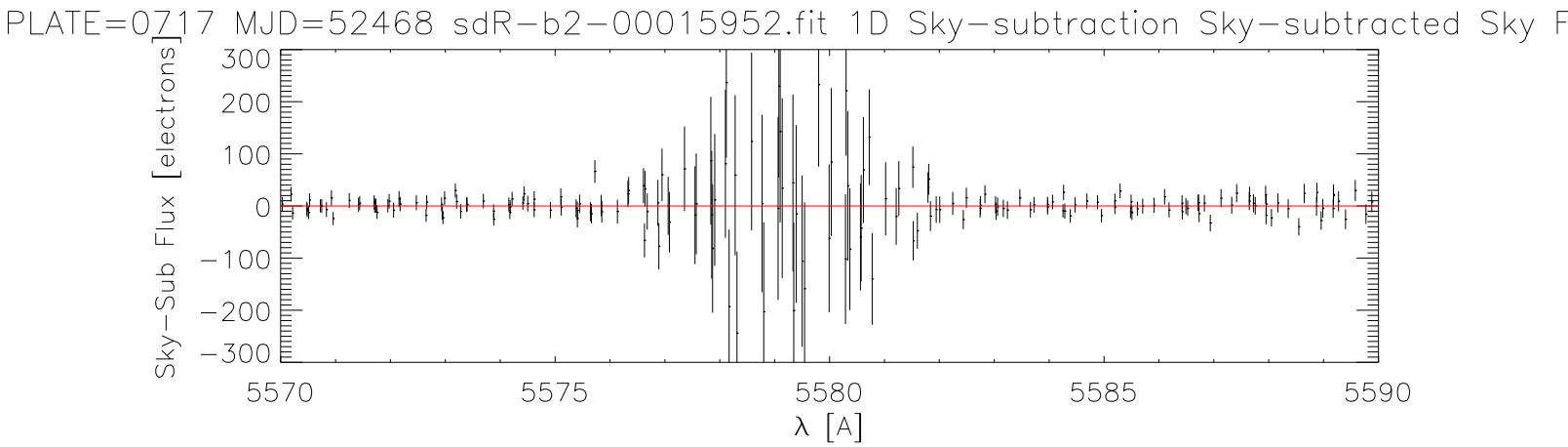

sky shift, pixels
0.0
−0.1
−0.2
−0.3
3500
4000
4500
5000
5500
6000
6500

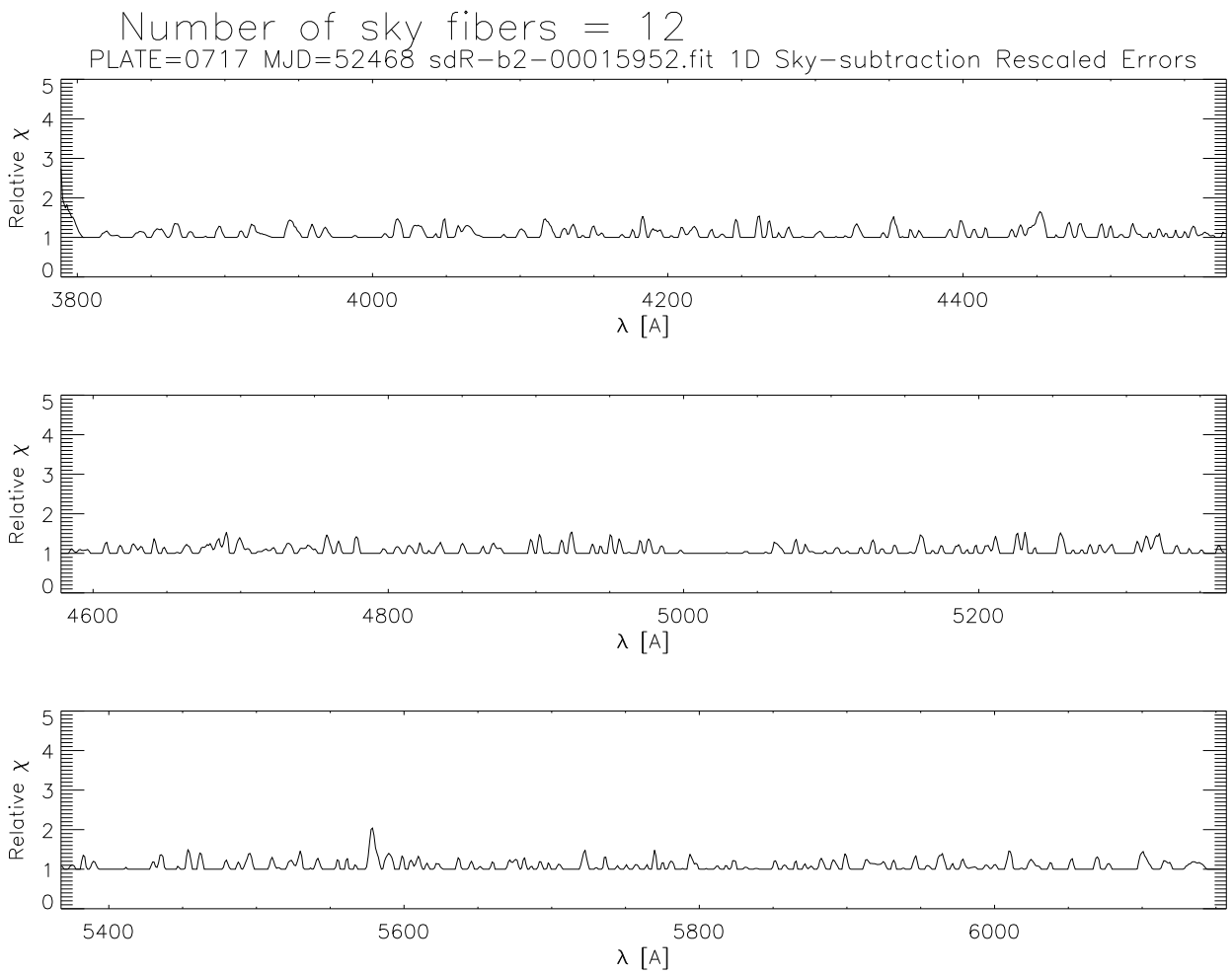

PLATE=0717 MJD=52468 Smooth superflat for sdR-b2-00015952.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

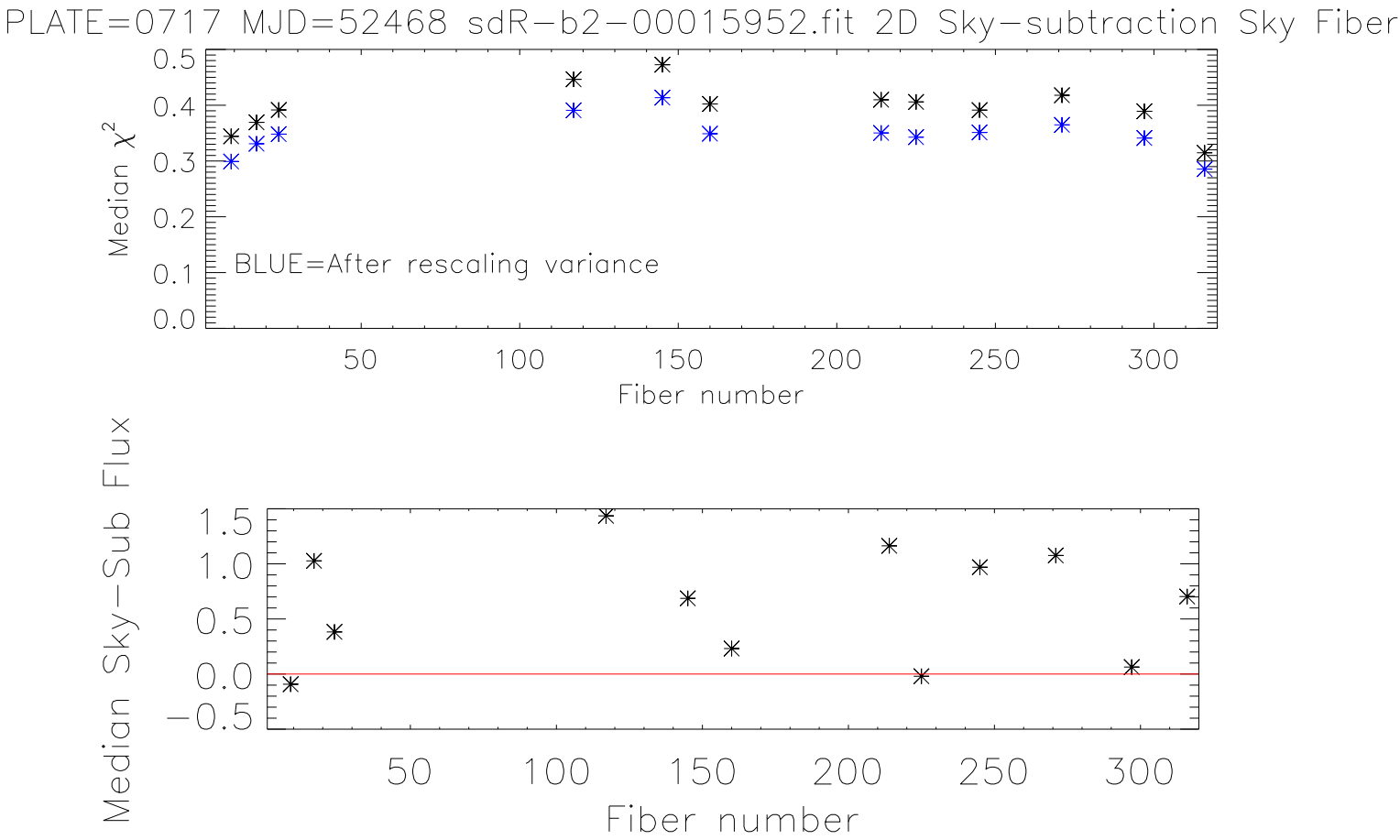
es= −0.0000

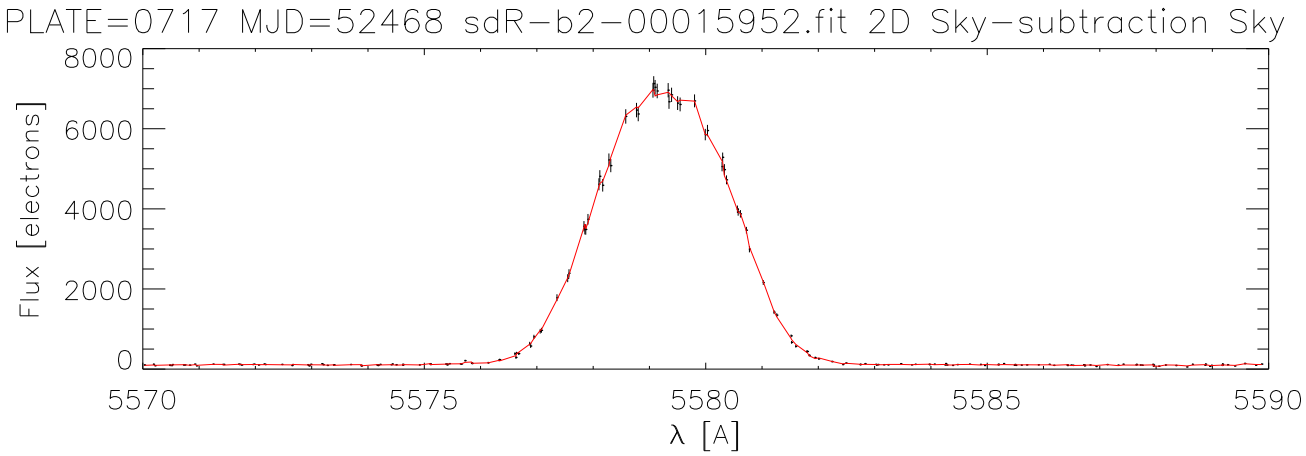

PLATE=0717 MJD=52468 sdR-b2-00015952.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

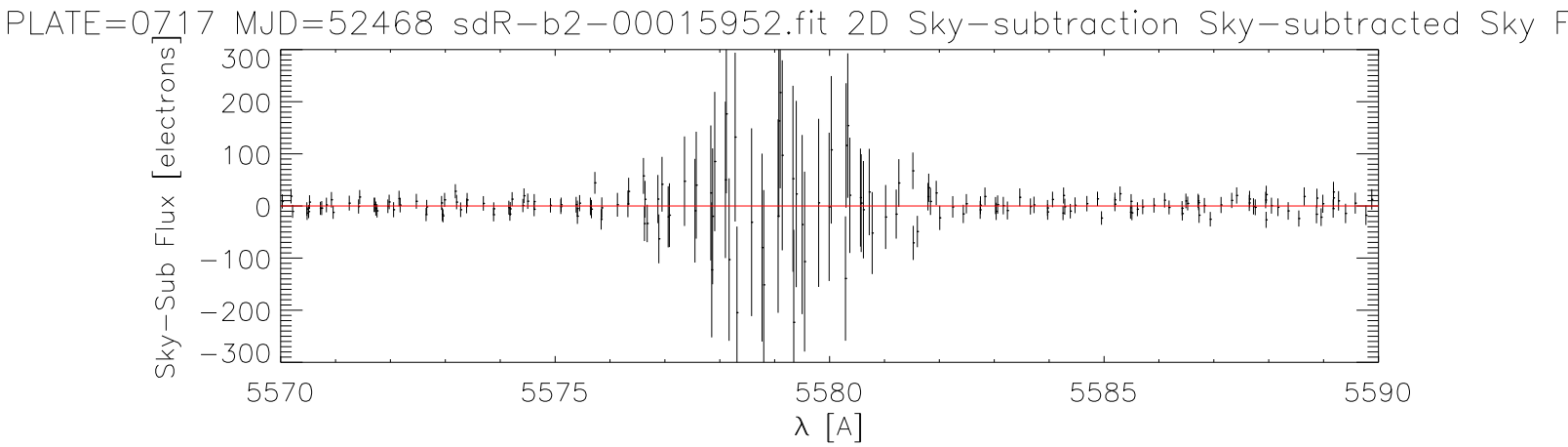

PLATE=0717 MJD=52468 sdR-b2-00015952.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

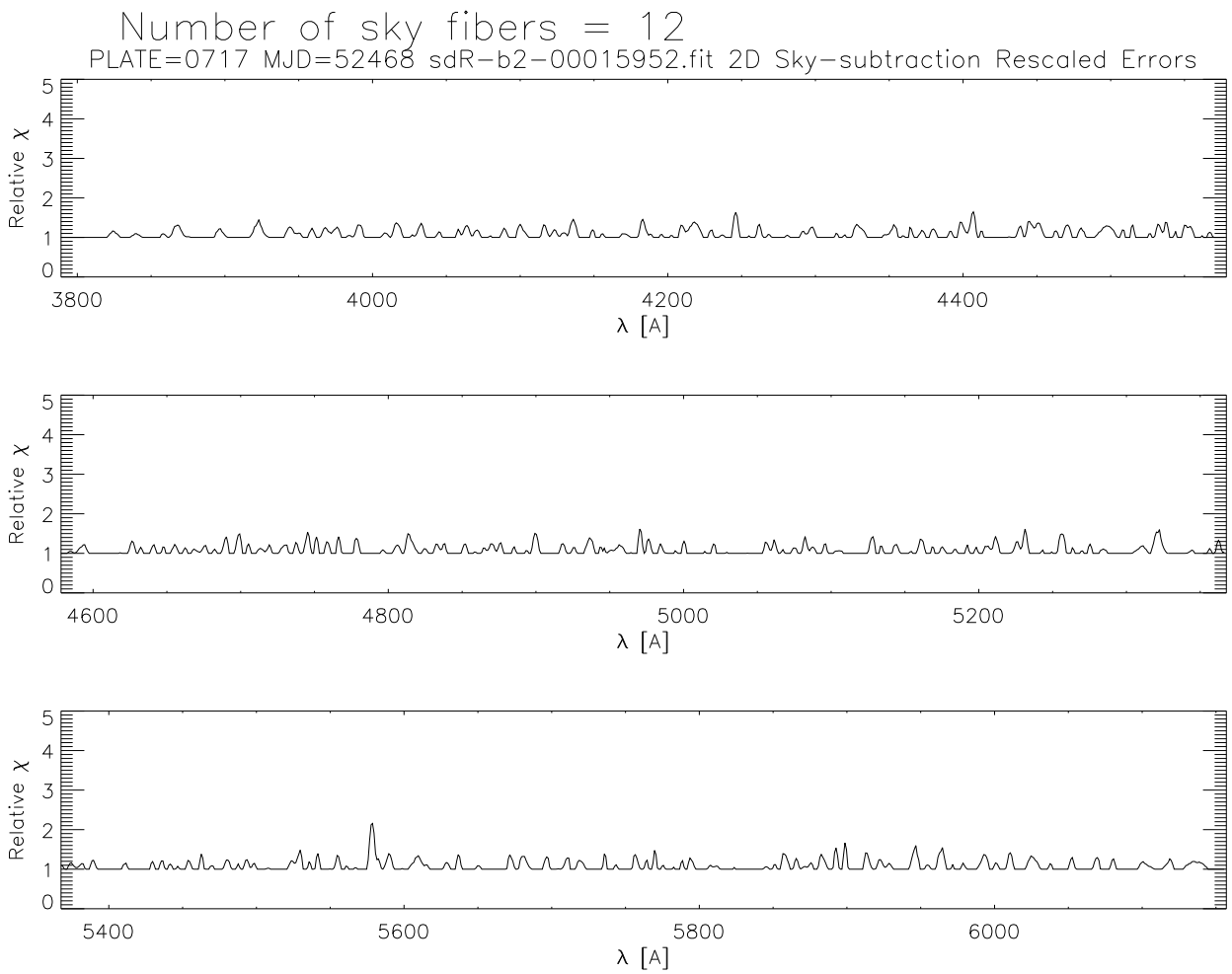

PLATE=0717 MJD=52468 sdR-b2-00015952.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

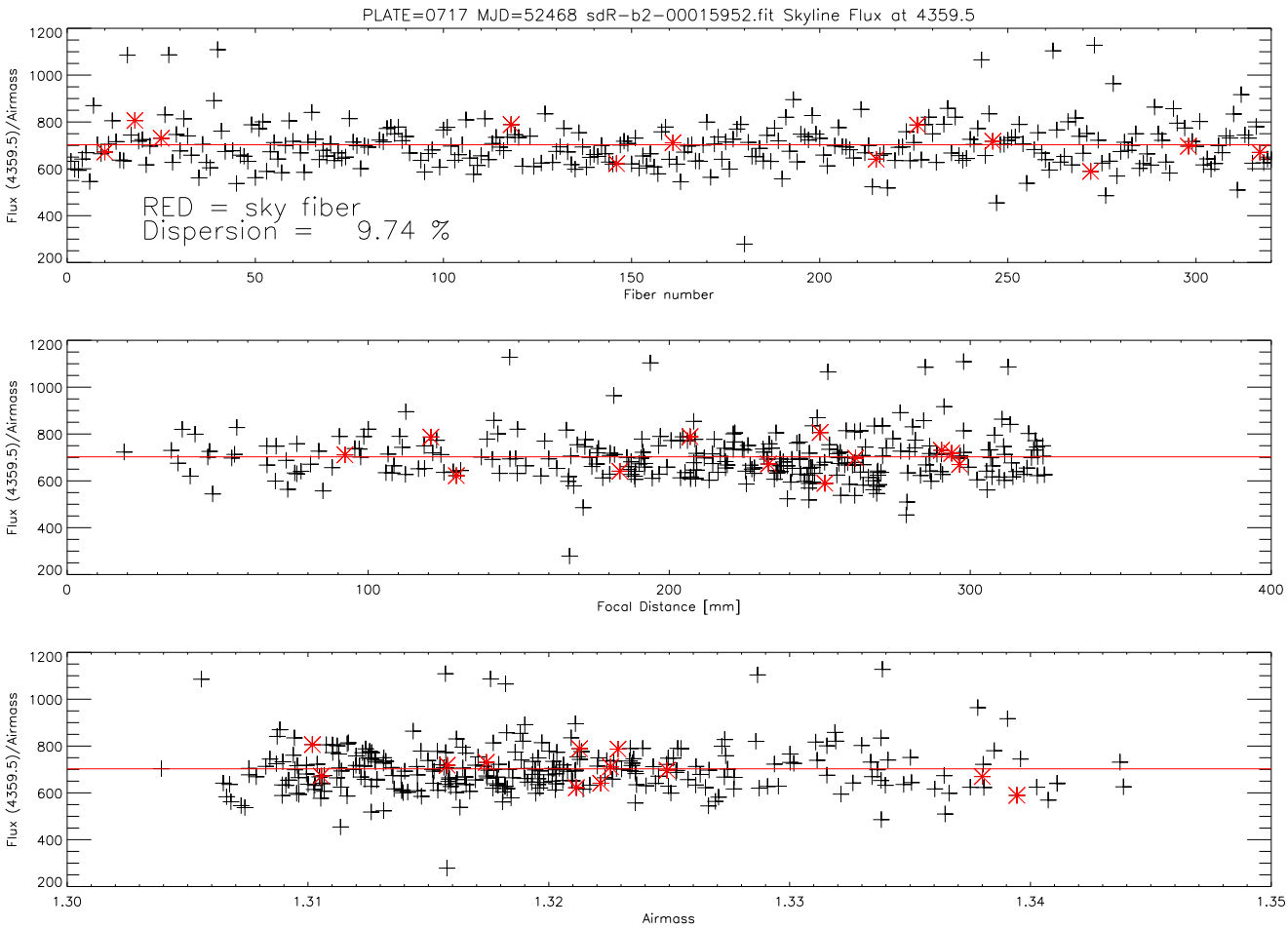

Number of sky fibers = 12
PLATE=0717 MJD=52468 sdR-b2-00015952.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

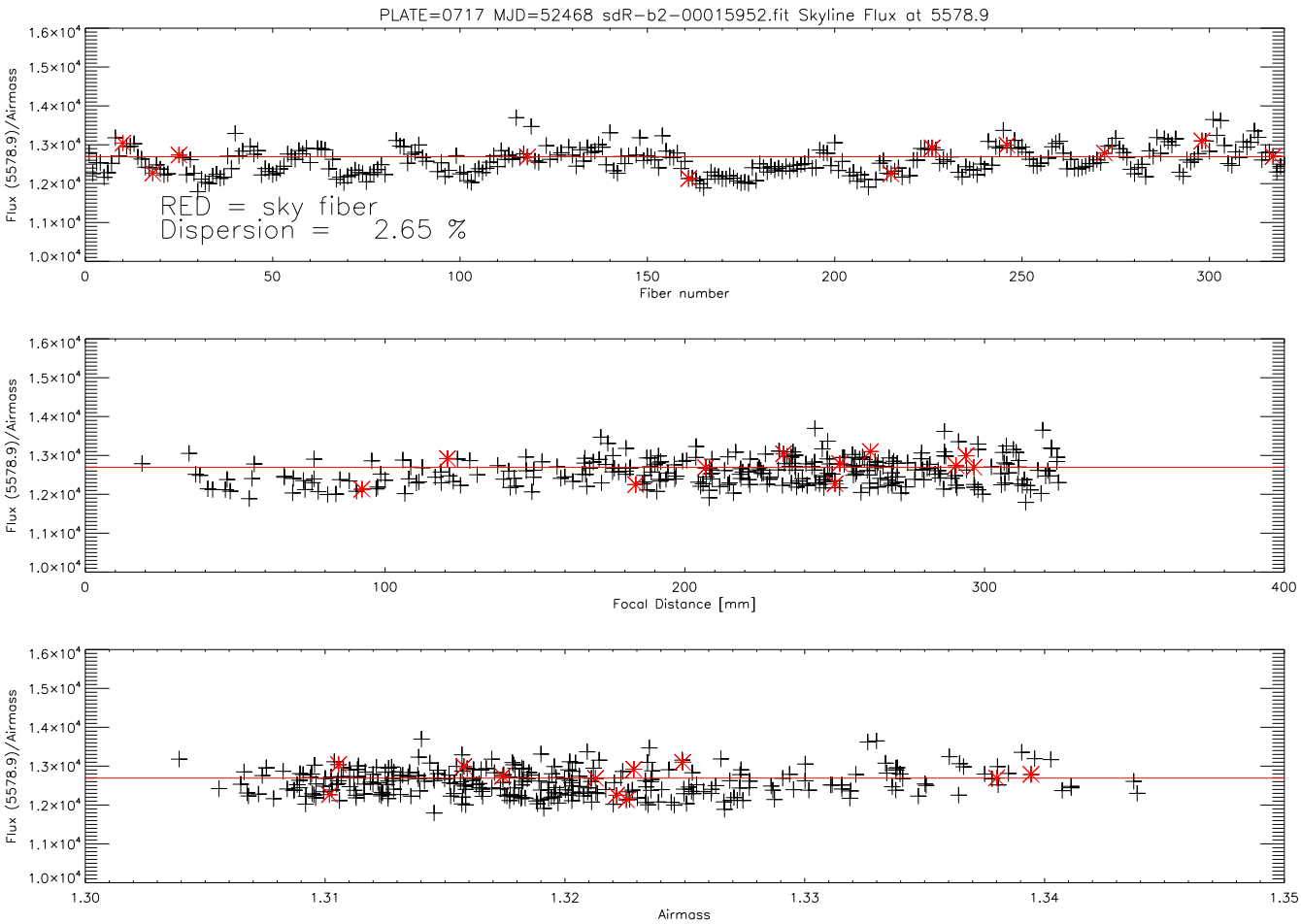

PLATE=0717 MJD=52468 sdR-b2-00015952.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

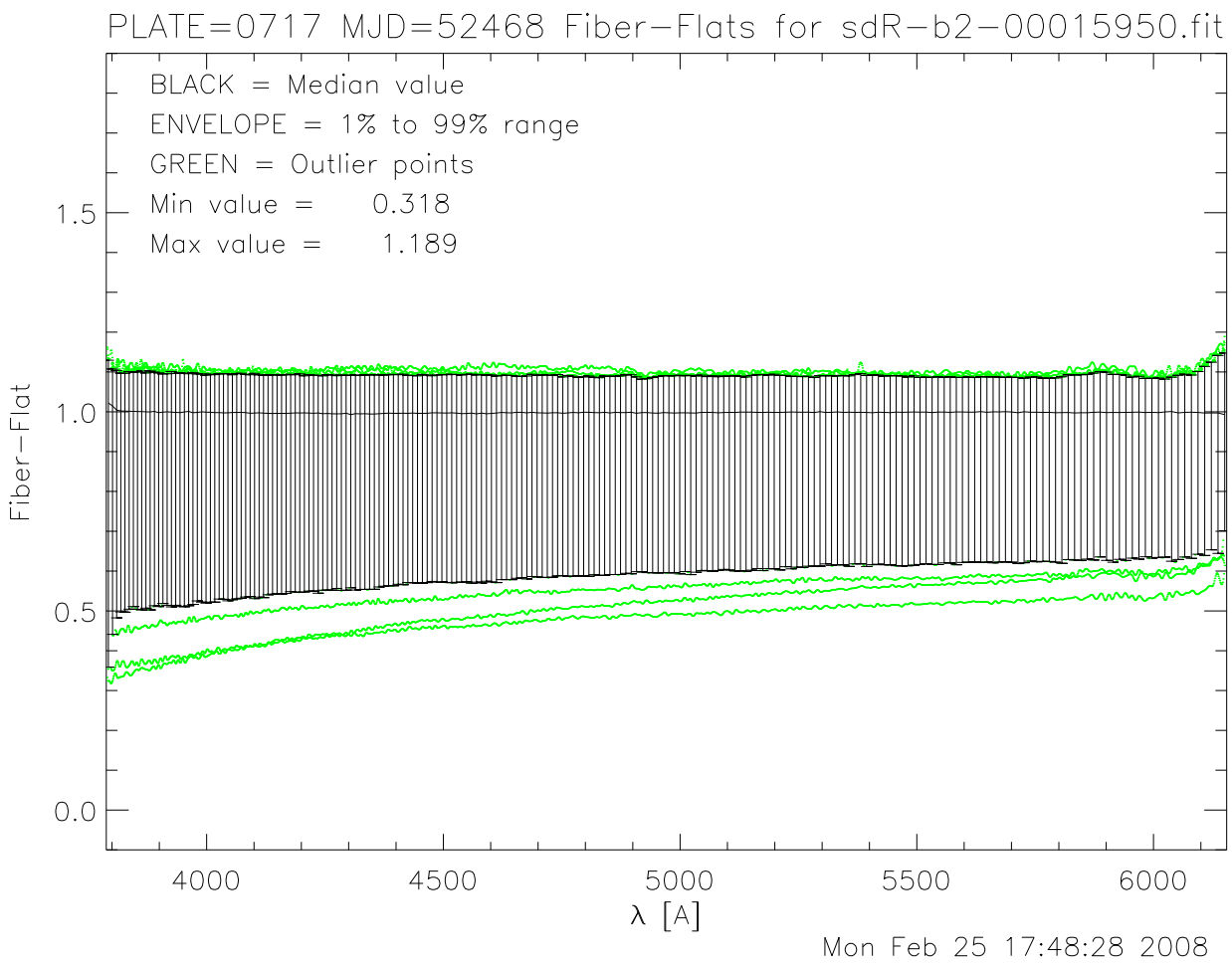

PLATE=0717 MJD=52468 sdR-b2-00015952.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]


PLATE=0717 MJD=52468 sdR-b2-00015952.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]


Number of sky fibers = 12
PLATE=0717 MJD=52468 sdR-b2-00015952.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5


PLATE=0717 MJD=52468 sdR-b2-00015952.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 9.74 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass


PLATE=0717 MJD=52468 sdR-b2-00015952.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.65 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass


PLATE=0717 MJD=52468 Fiber-Flats for sdR-b2-00015950.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.318
Max value = 1.189
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
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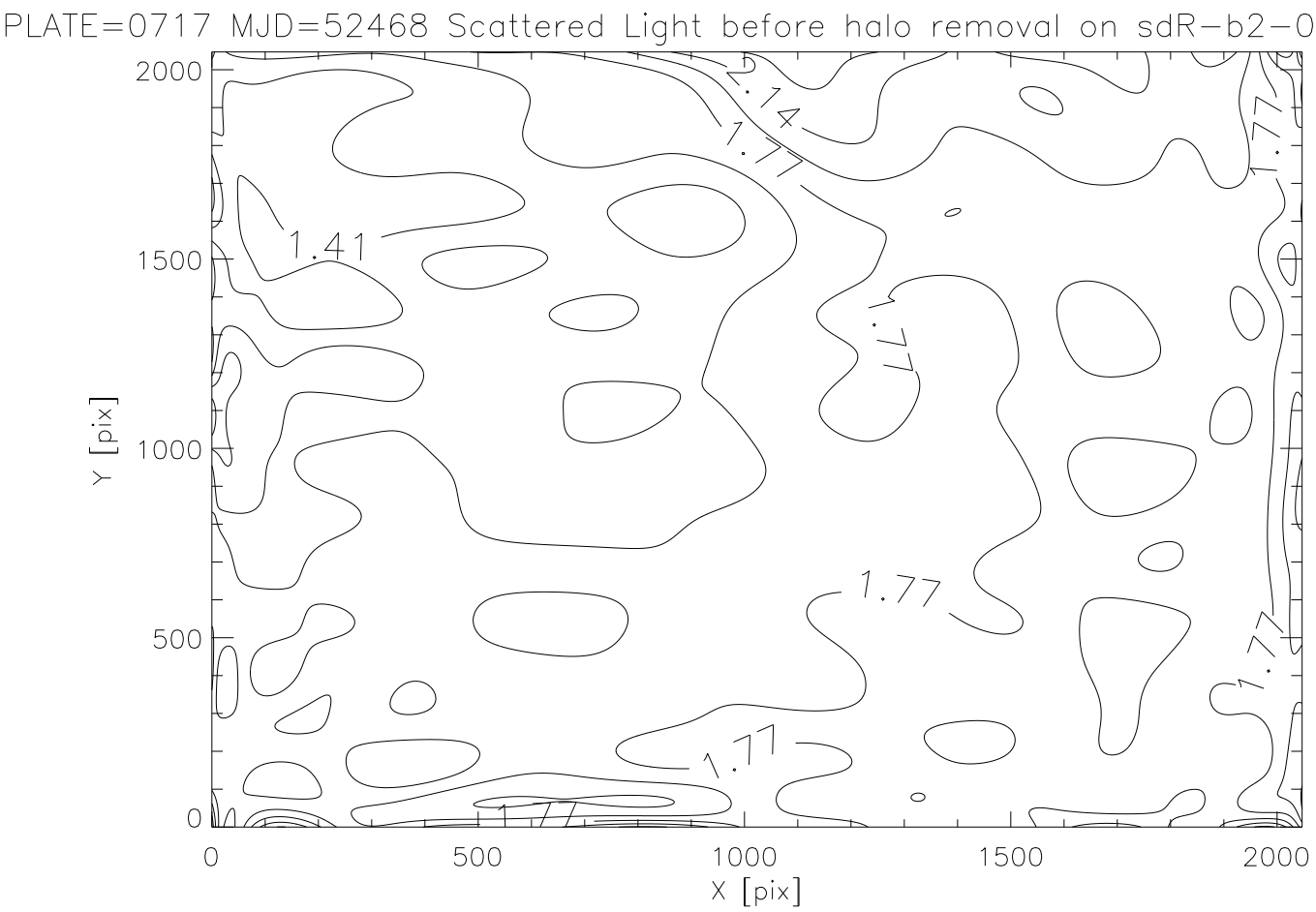
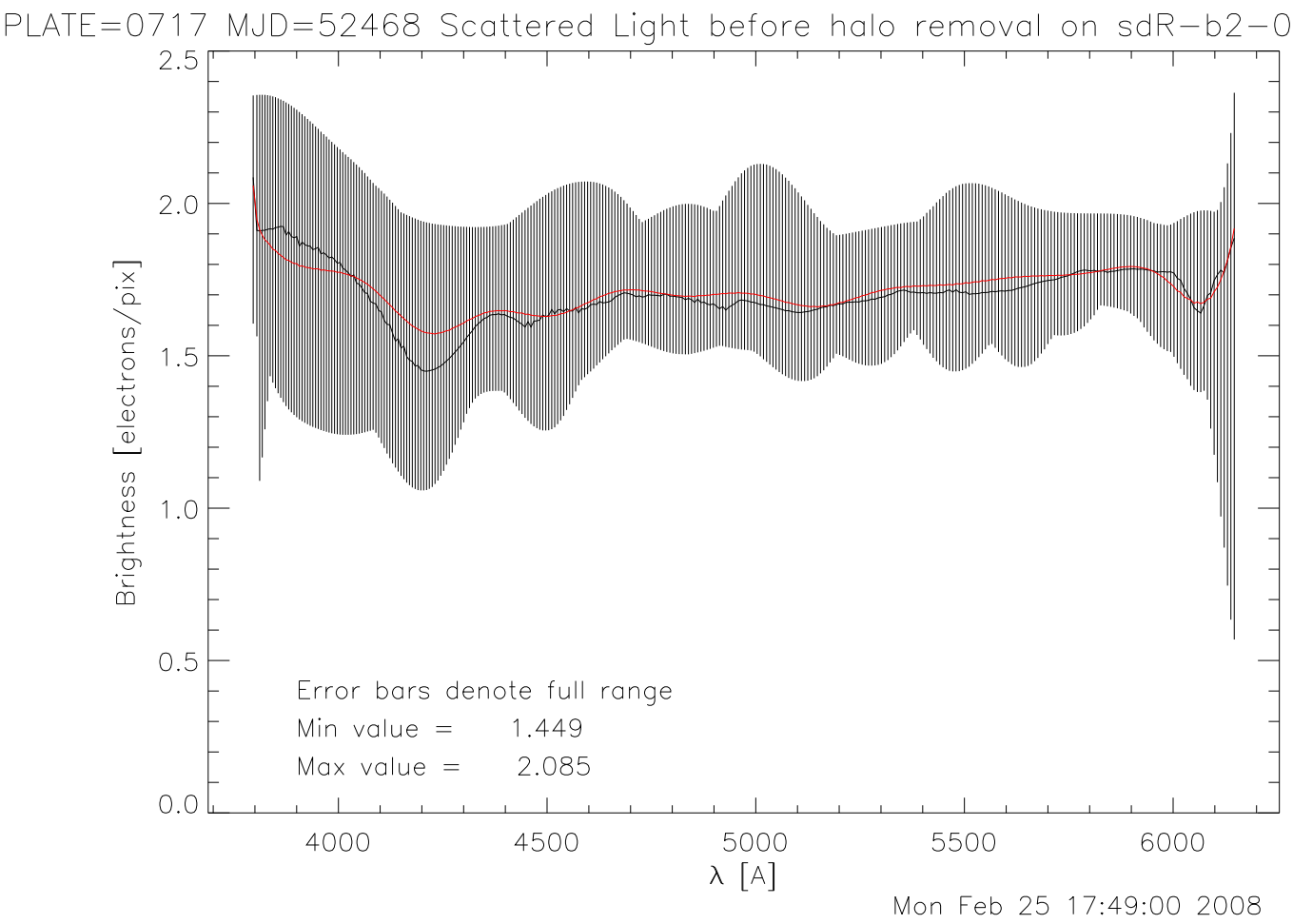
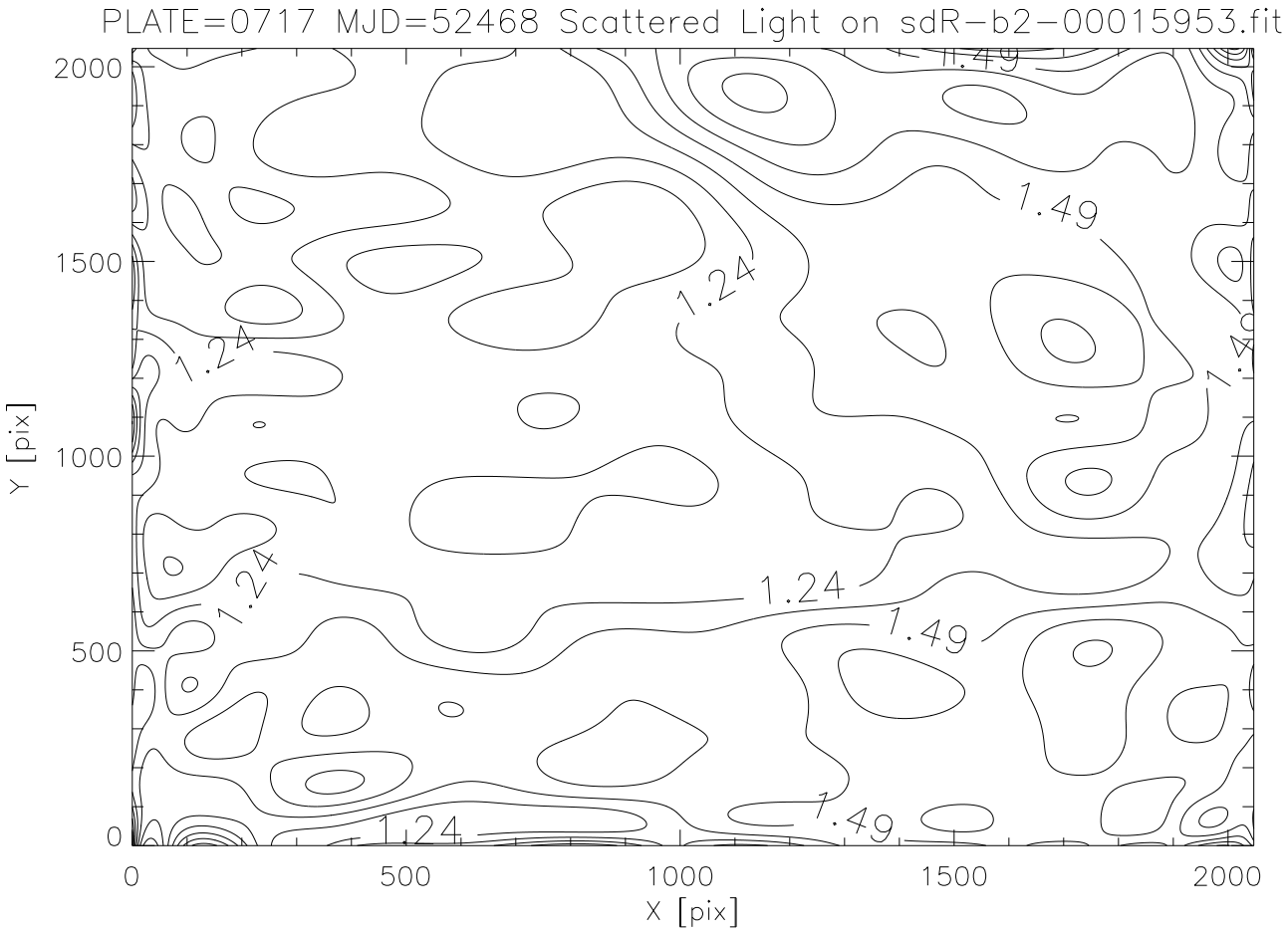
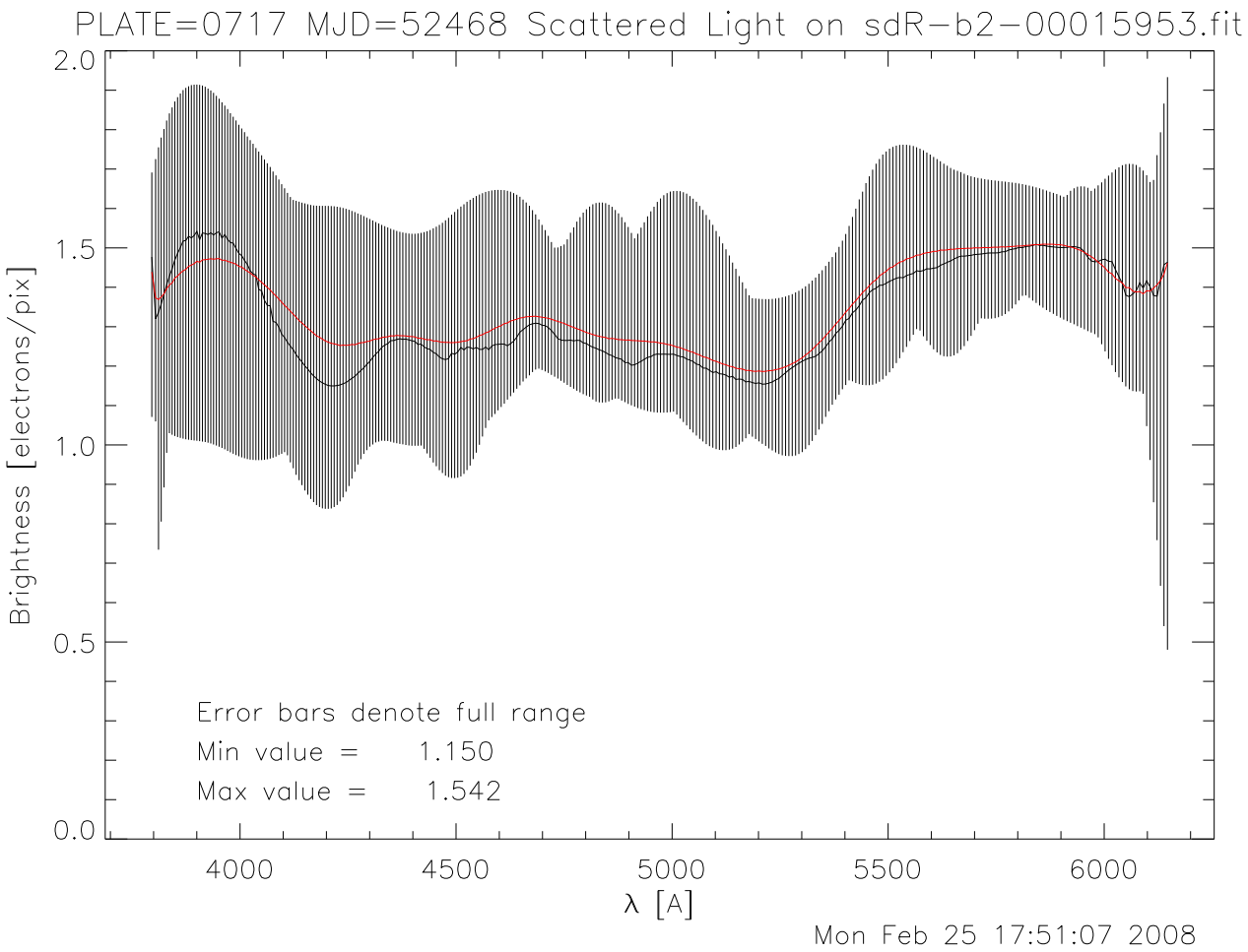

PLATE=0717 MJD=52468 Scattered Light before halo removal on sdR-b2-00015953.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
1.41
1.77
1.77
1.77
1.77
1.77
1.77
1.77
1.77


PLATE=0717 MJD=52468 Scattered Light before halo removal on sdR-b2-00015953.f
Brightness [electrons/pix]
2.5
2.0
1.5
1.0
0.5
0.0
Error bars denote full range
Min value = 1.449
Max value = 2.085
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 17:49:00 2008


PLATE=0717 MJD=52468 Scattered Light on sdR-b2-00015953.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
1.24
1.49


PLATE=0717 MJD=52468 Scattered Light on sdR-b2-00015953.fit
Brightness [electrons/pix]
2.0
1.5
1.0
0.5
0.0
Error bars denote full range
Min value = 1.150
Max value = 1.542
4000
4500
5000
5500
6000
λ [A]
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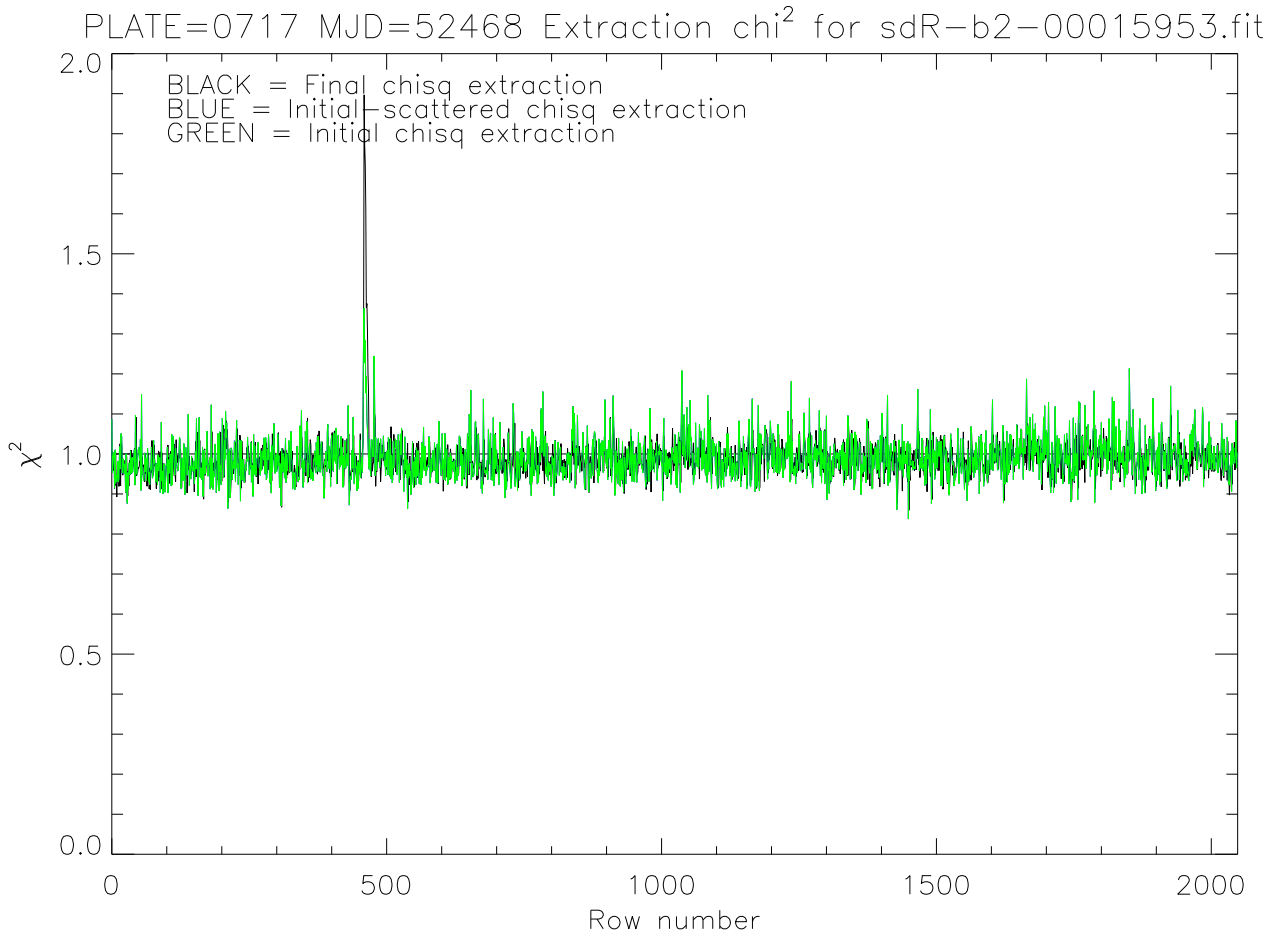
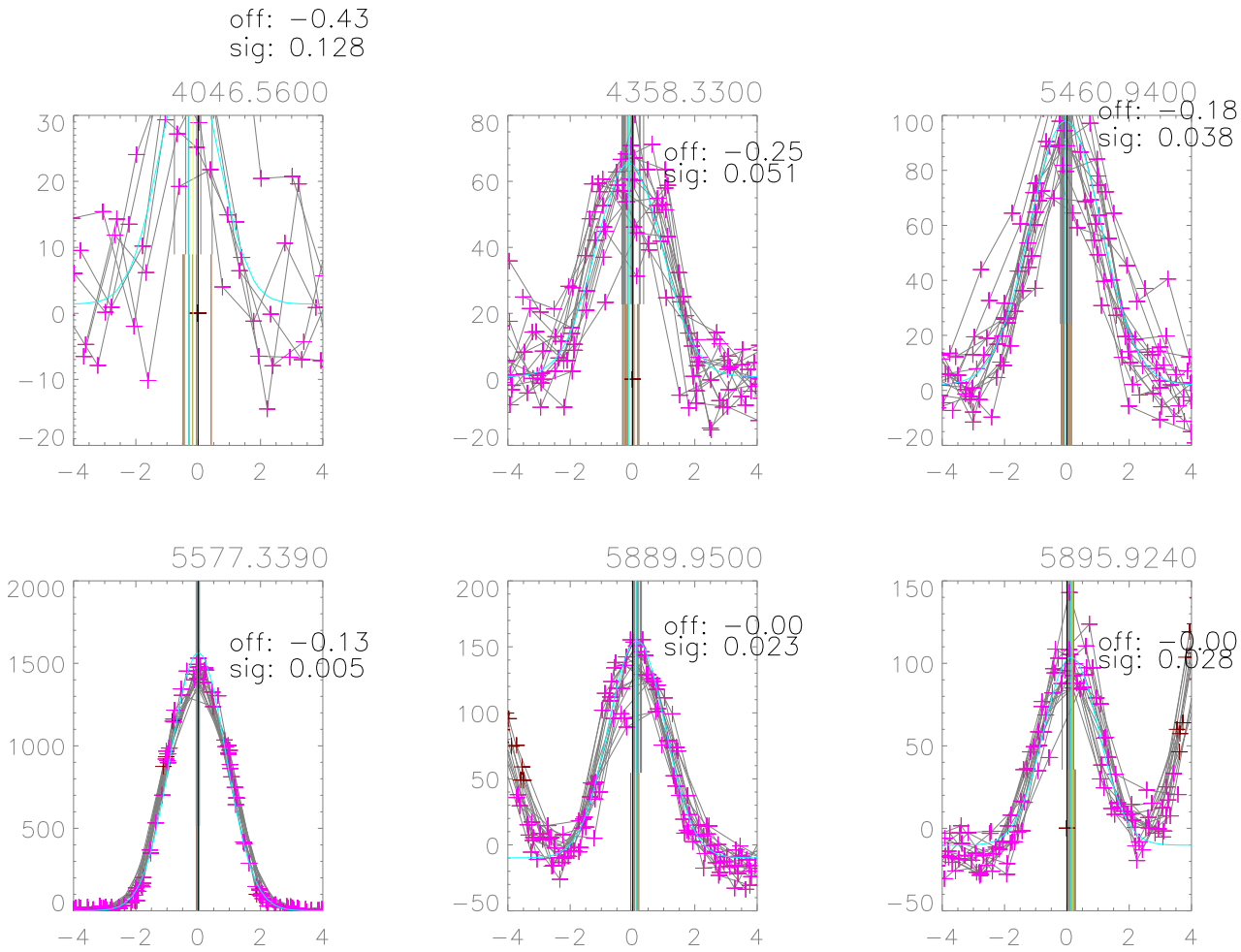
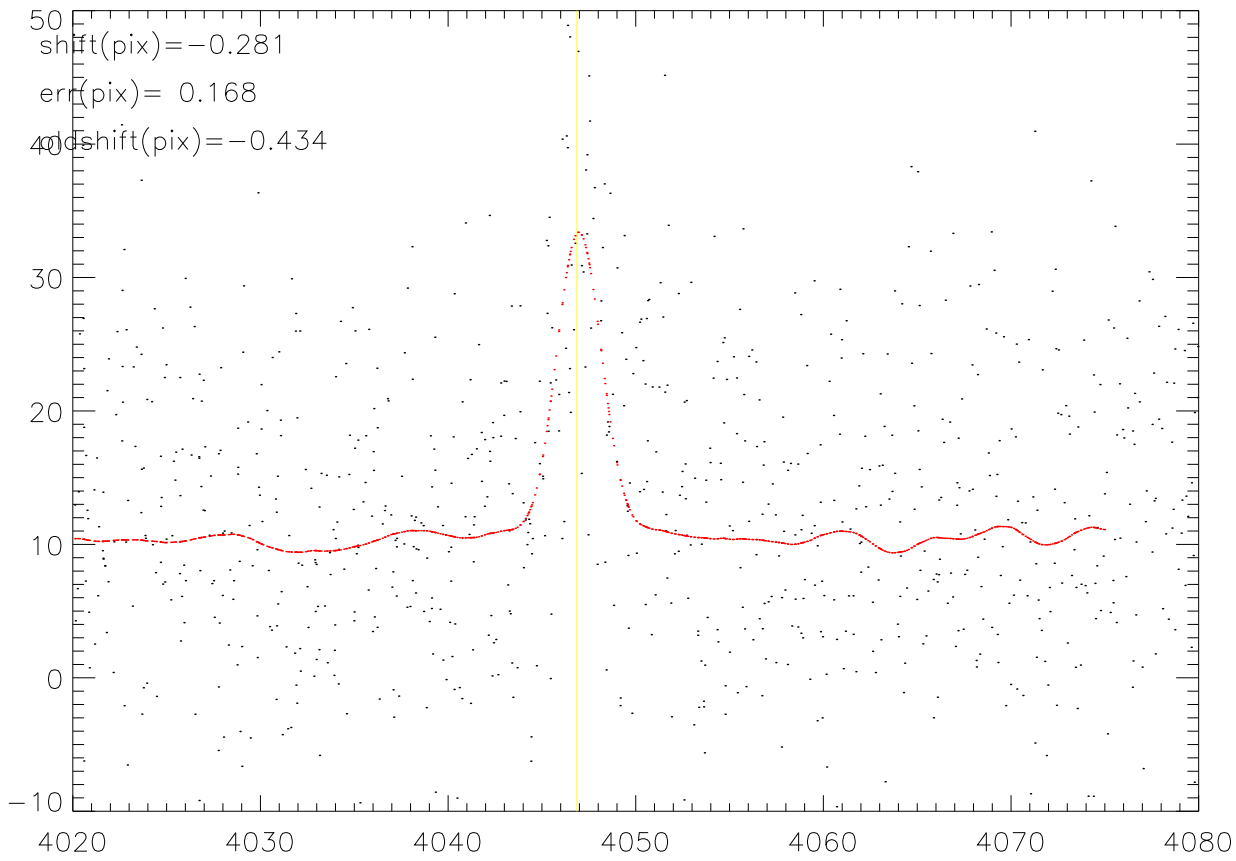
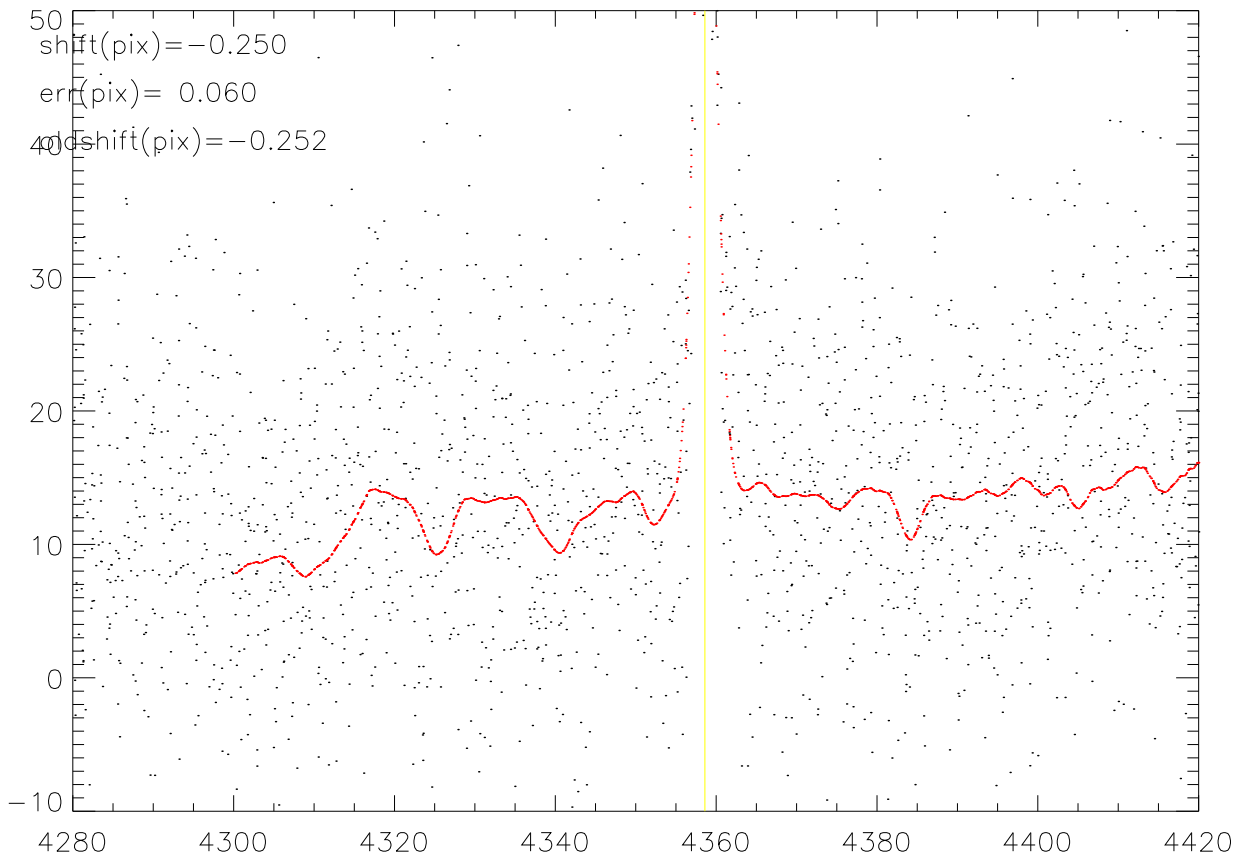
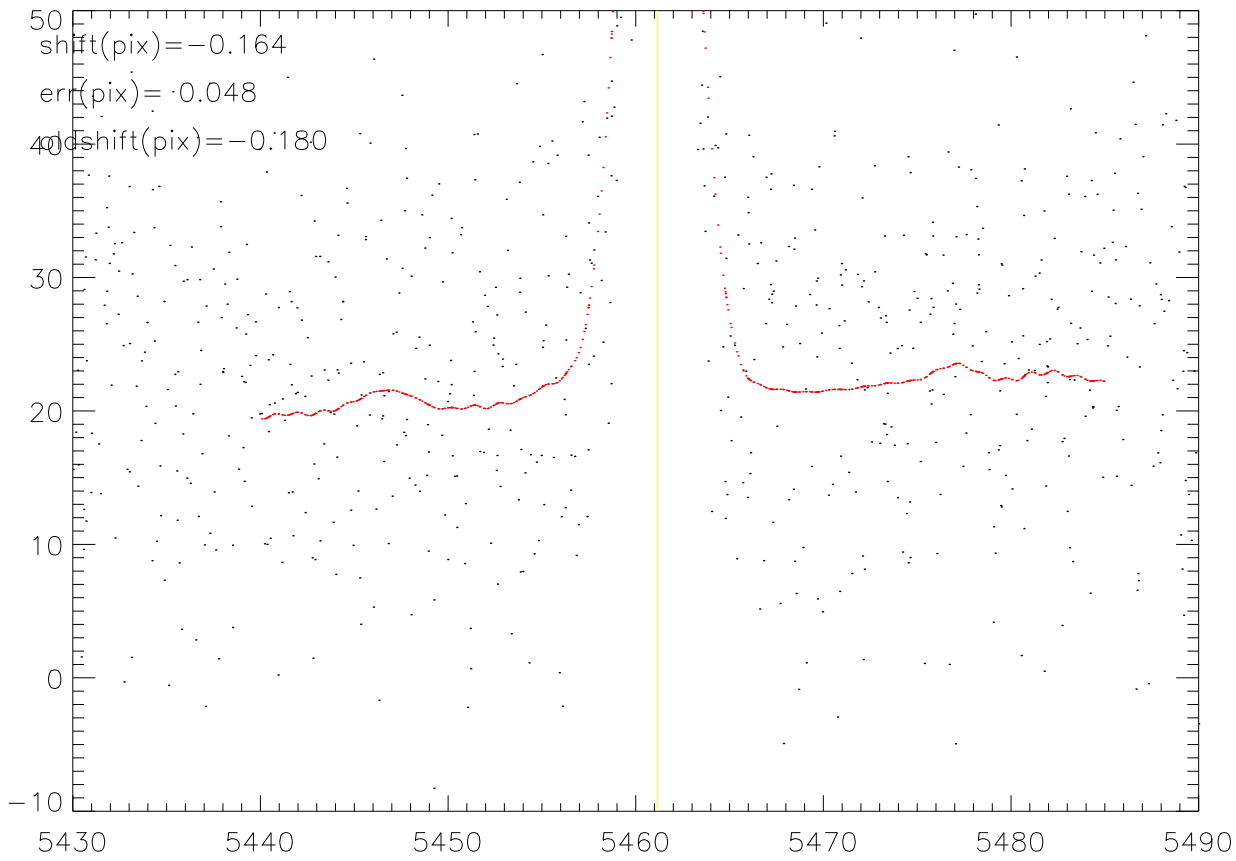
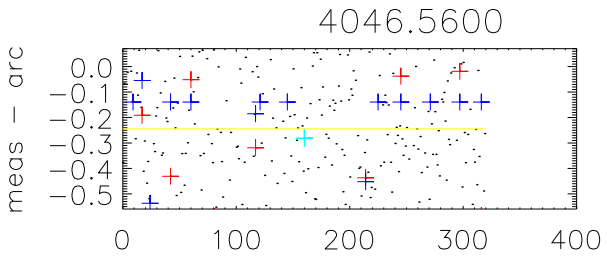

PLATE=0717 MJD=52468 Extraction chi^2 for sdR-b2-00015953.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

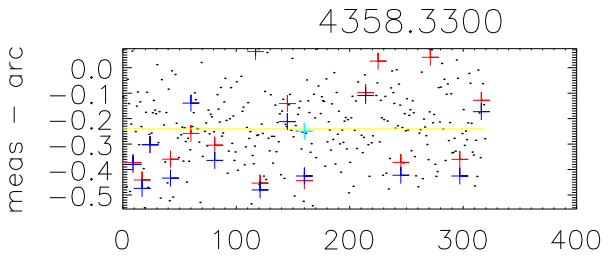

off: −0.43
sig: 0.128
4046.5600
4358.3300
off: −0.25
sig: 0.051
5460.9400
off: −0.18
sig: 0.038
5577.3390
off: −0.13
sig: 0.005
5889.9500
off: −0.00
sig: 0.023
5895.9240
off: −0.00
sig: 0.028

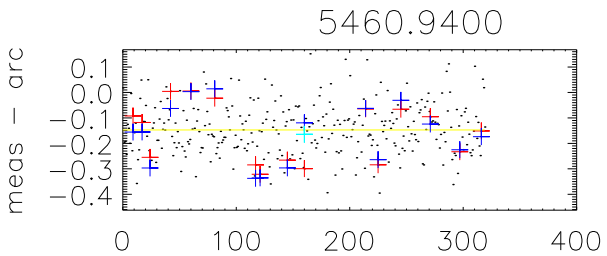

shift(pix)=−0.281
err(pix)= 0.168
addshift(pix)=−0.434
50
40
30
20
10
0
−10
4020
4030
4040
4050
4060
4070
4080

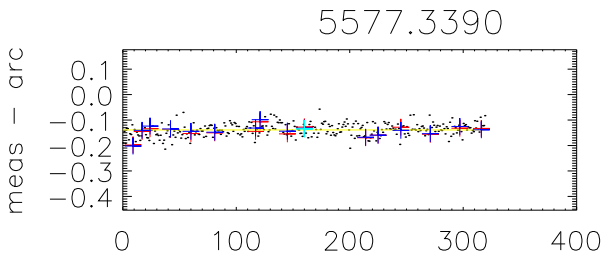

shift(pix)=−0.250
err(pix)= 0.060
oldshift(pix)=−0.252
50
40
30
20
10
0
−10
4280
4300
4320
4340
4360
4380
4400
4420

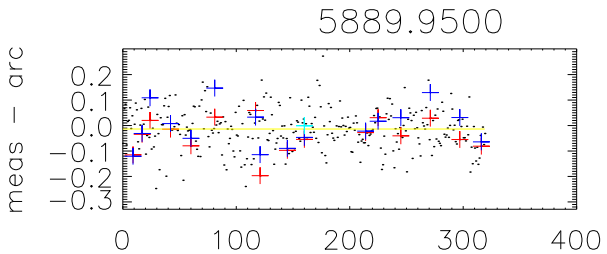

shift(pix)=−0.164
err(pix)= 0.048
oldshift(pix)=−0.180
50
40
30
20
10
0
−10
5430
5440
5450
5460
5470
5480
5490

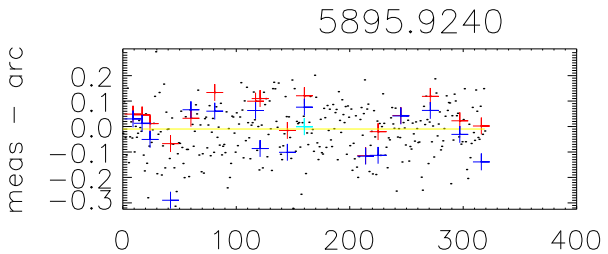

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

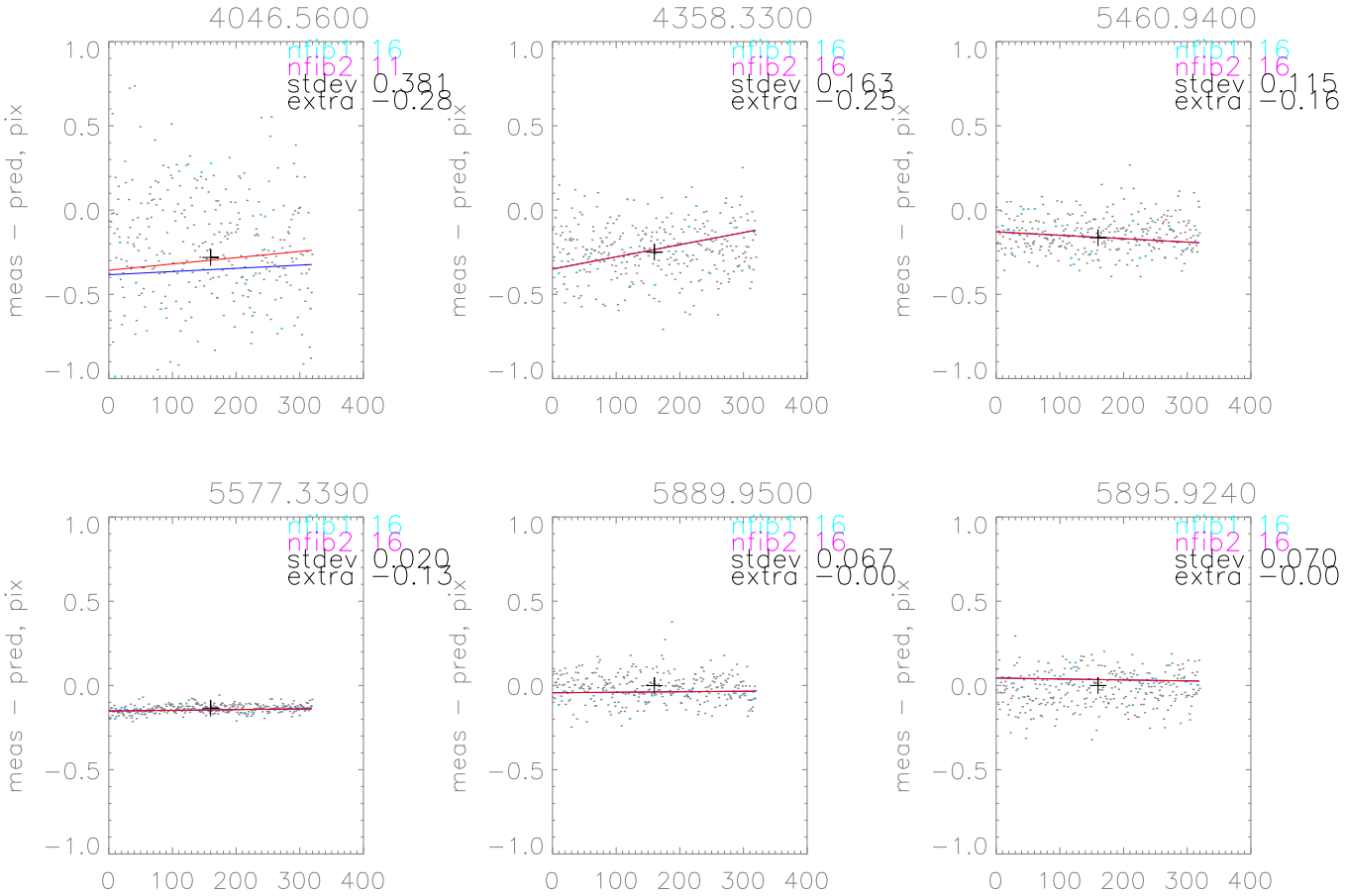

4358.3300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

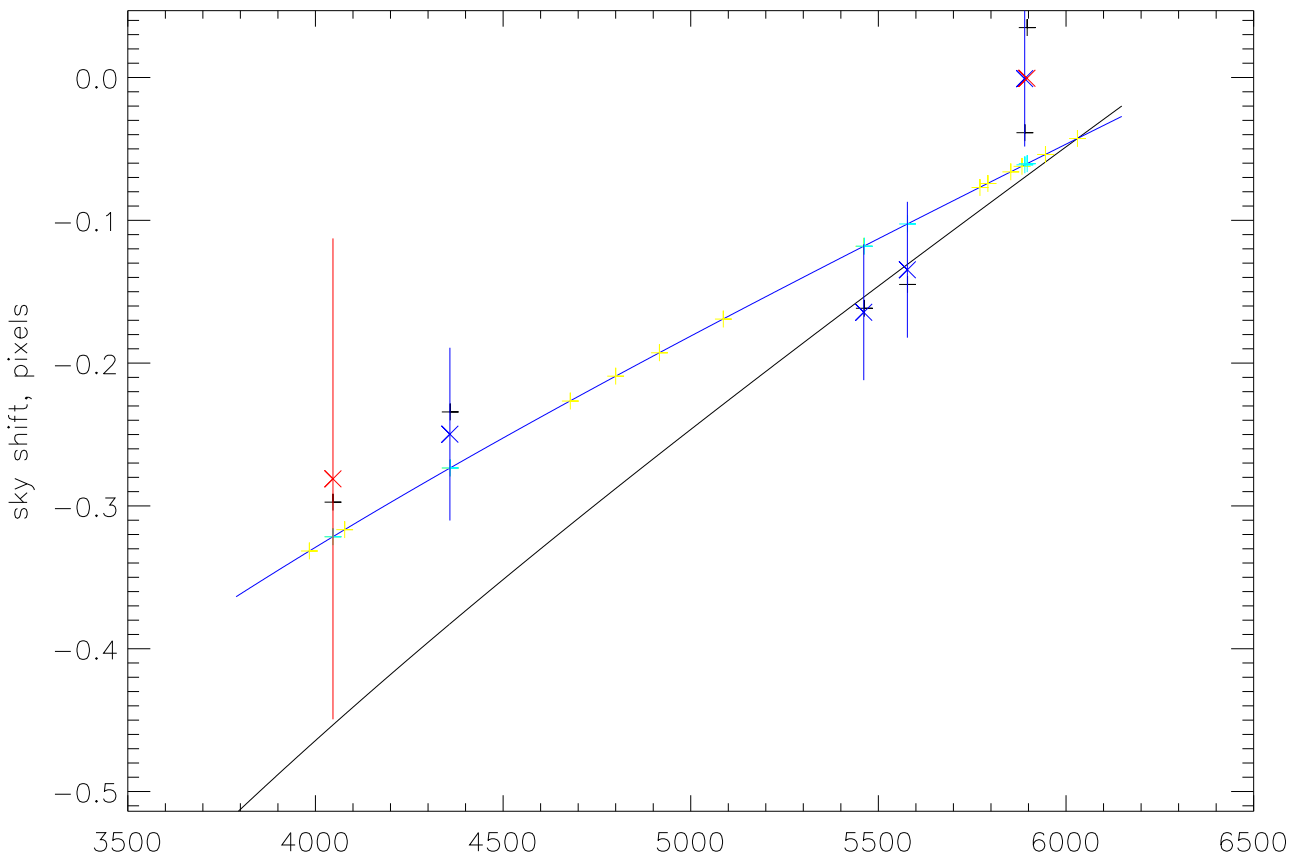

5460.9400
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

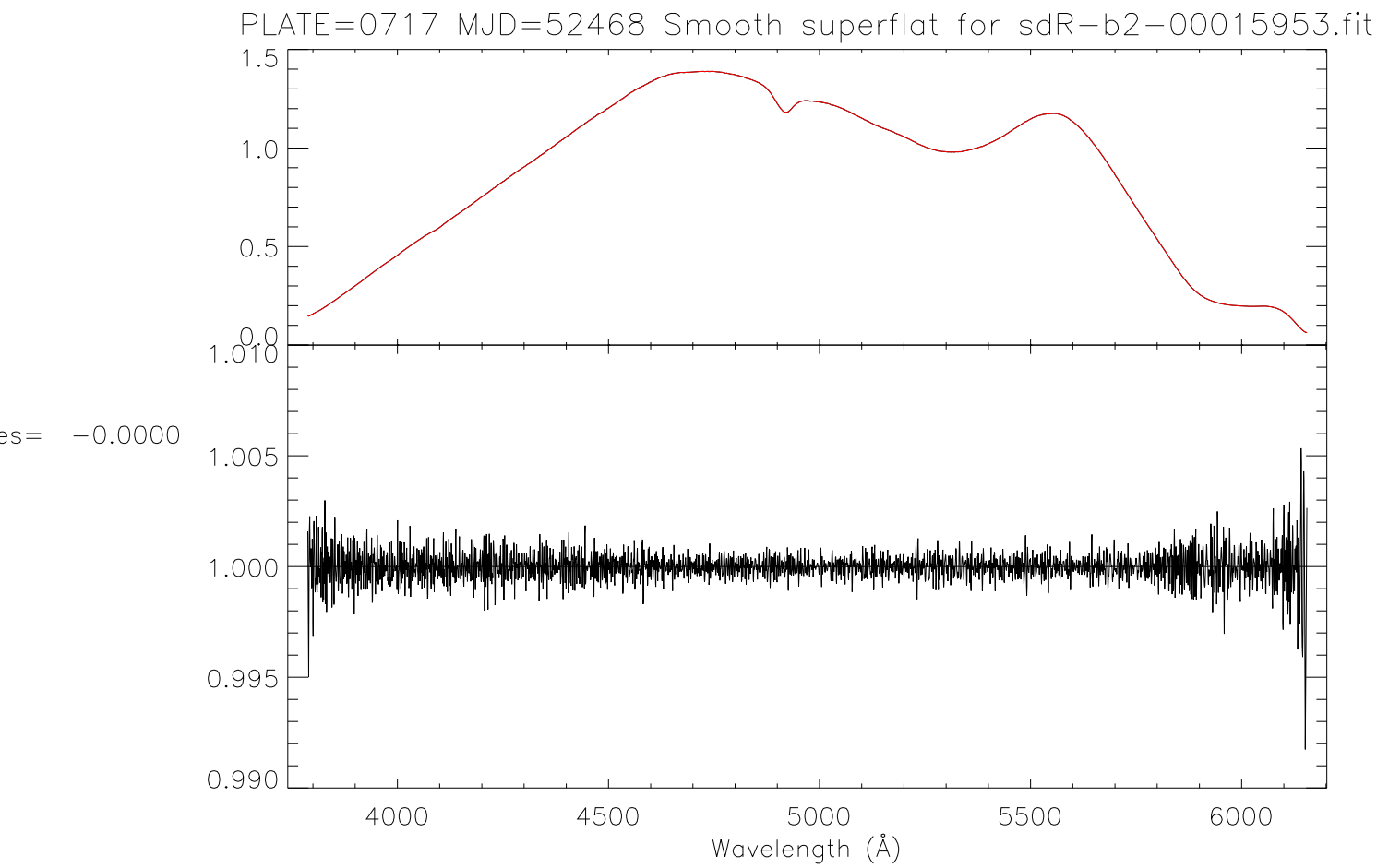

5577.3390
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


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

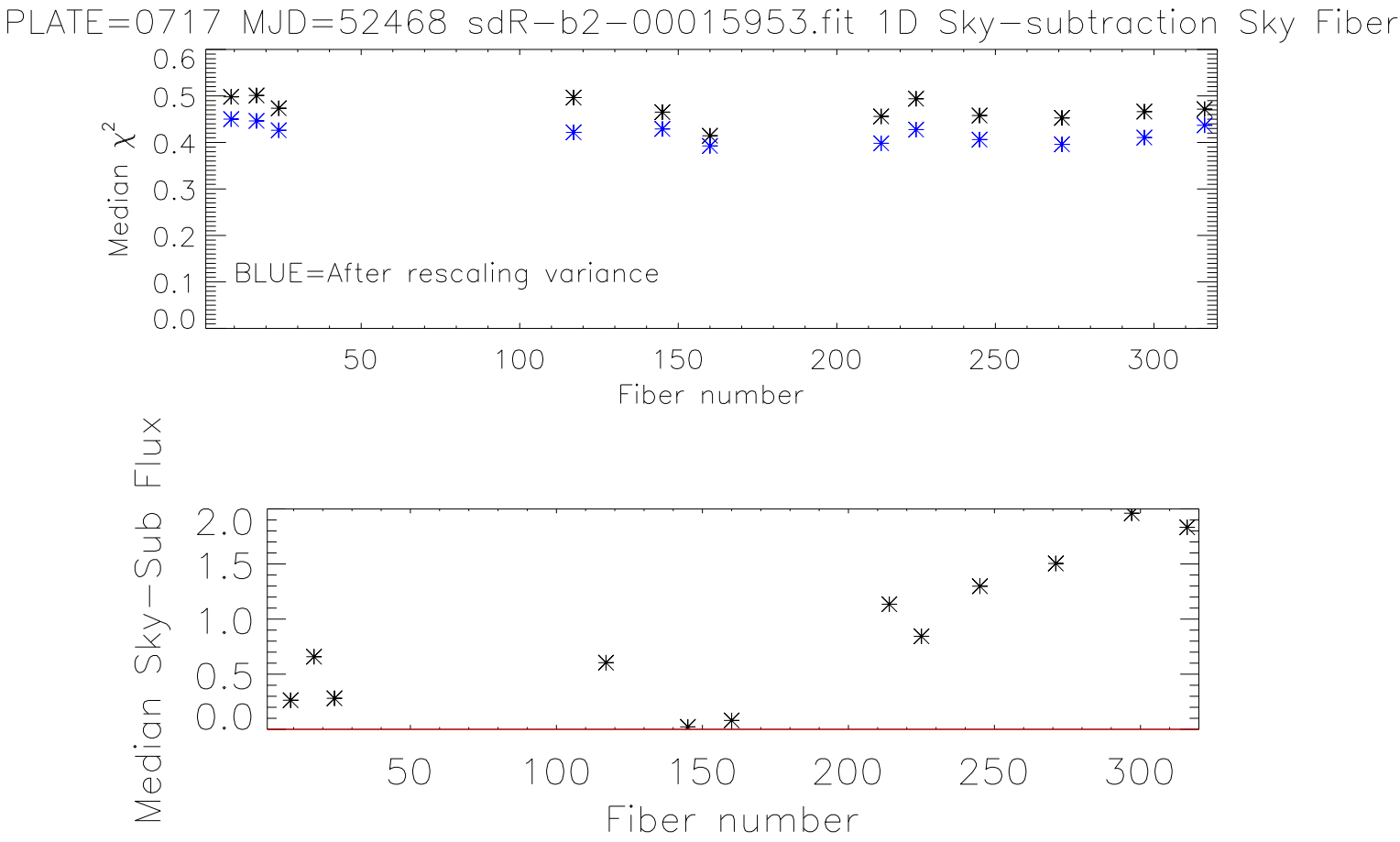

5895.9240
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

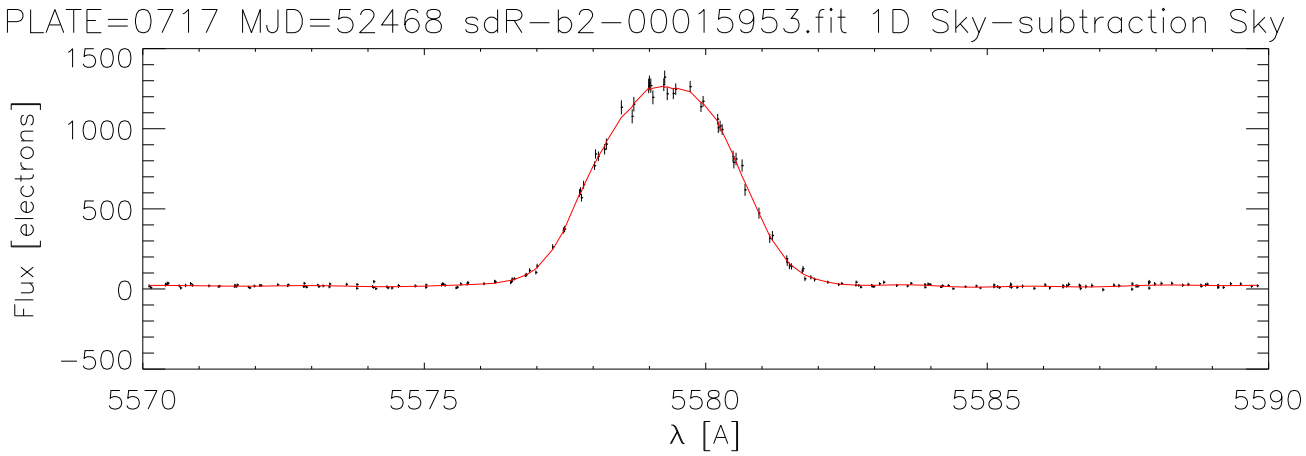

4046.5600
nfib1 16
nfib2 11
stdev 0.381
extra −0.28
4358.3300
nfib1 16
nfib2 16
stdev 0.163
extra −0.25
5460.9400
nfib1 16
nfib2 16
stdev 0.115
extra −0.16
5577.3390
nfib1 16
nfib2 16
stdev 0.020
extra −0.13
5889.9500
nfib1 16
nfib2 16
stdev 0.067
extra −0.00
5895.9240
nfib1 16
nfib2 16
stdev 0.070
extra −0.00
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

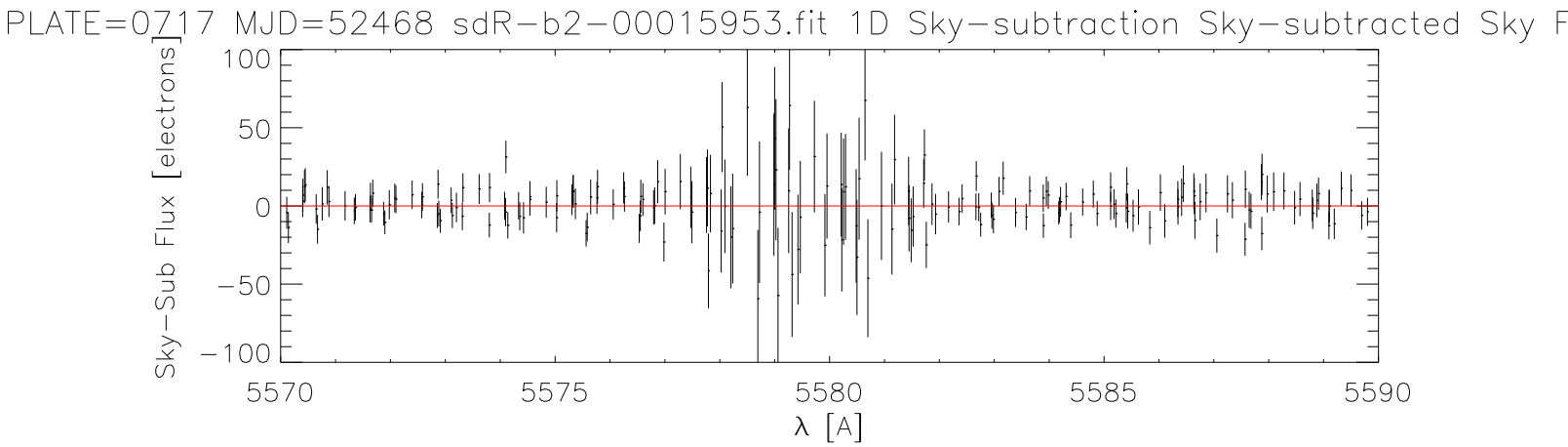

0.0
−0.1
−0.2
−0.3
−0.4
−0.5
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

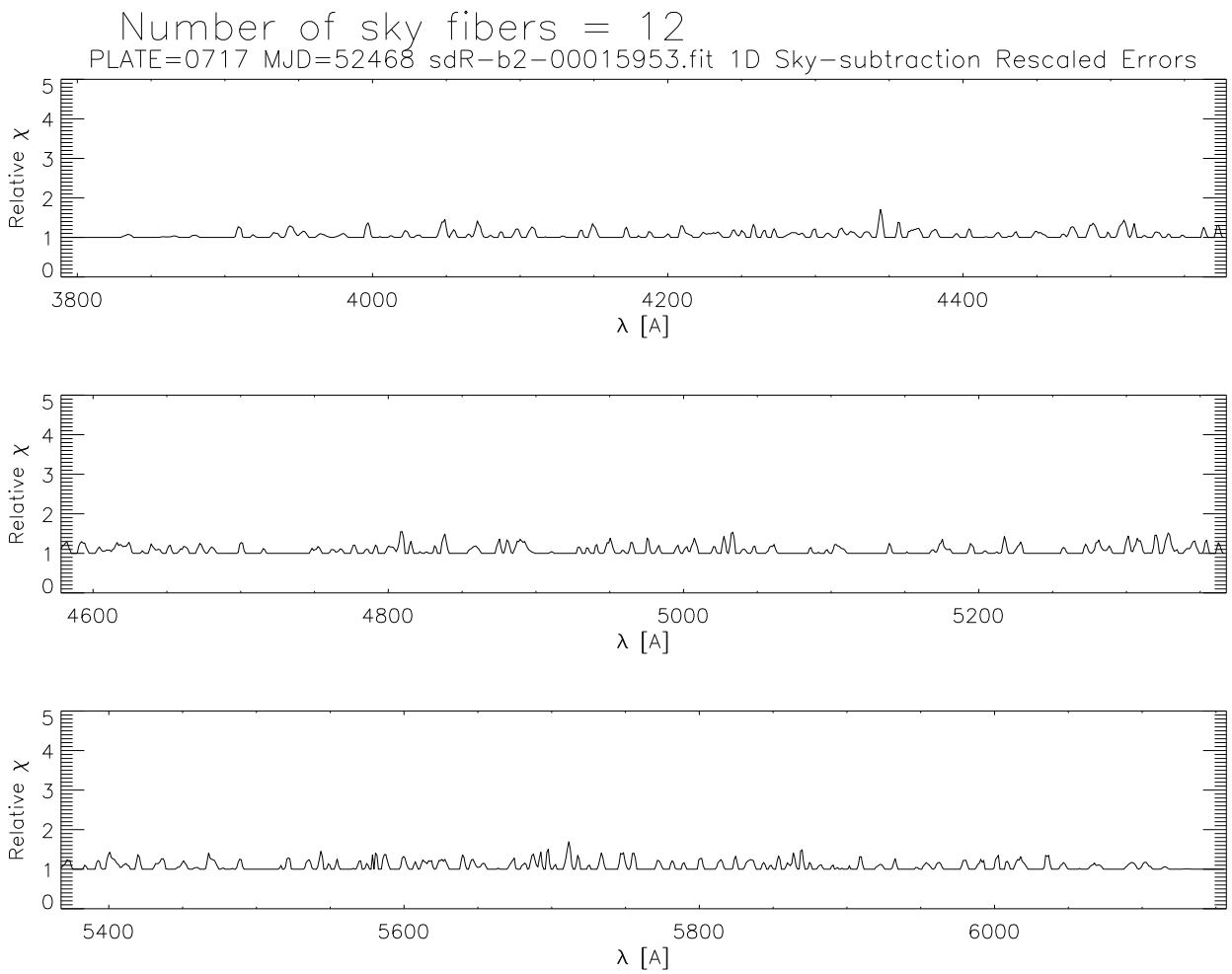

PLATE=0717 MJD=52468 Smooth superflat for sdR-b2-00015953.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

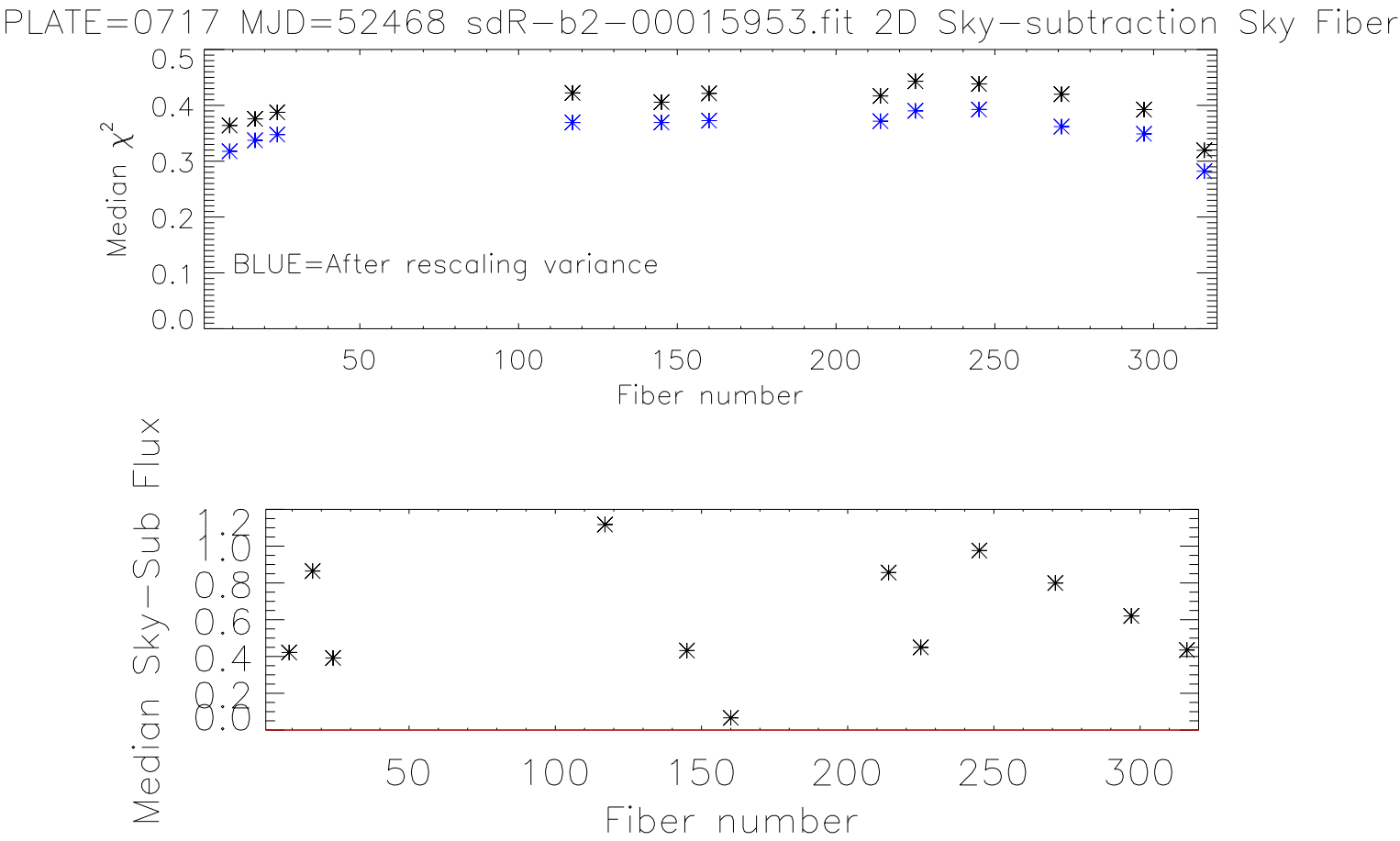
es= −0.0000

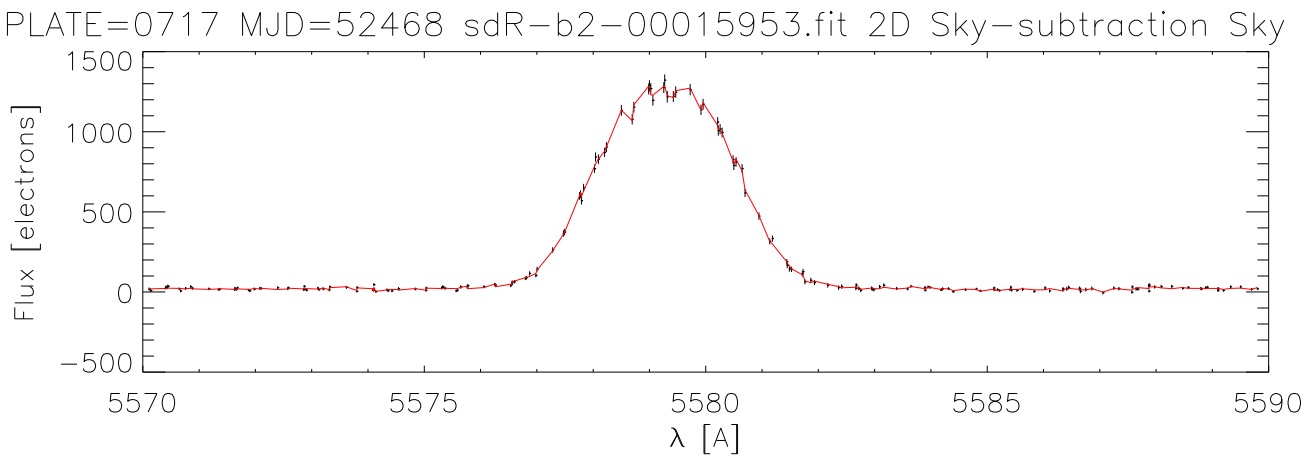

PLATE=0717 MJD=52468 sdR-b2-00015953.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
0.0
0.5
1.0
1.5
2.0
50
100
150
200
250
300
Fiber number

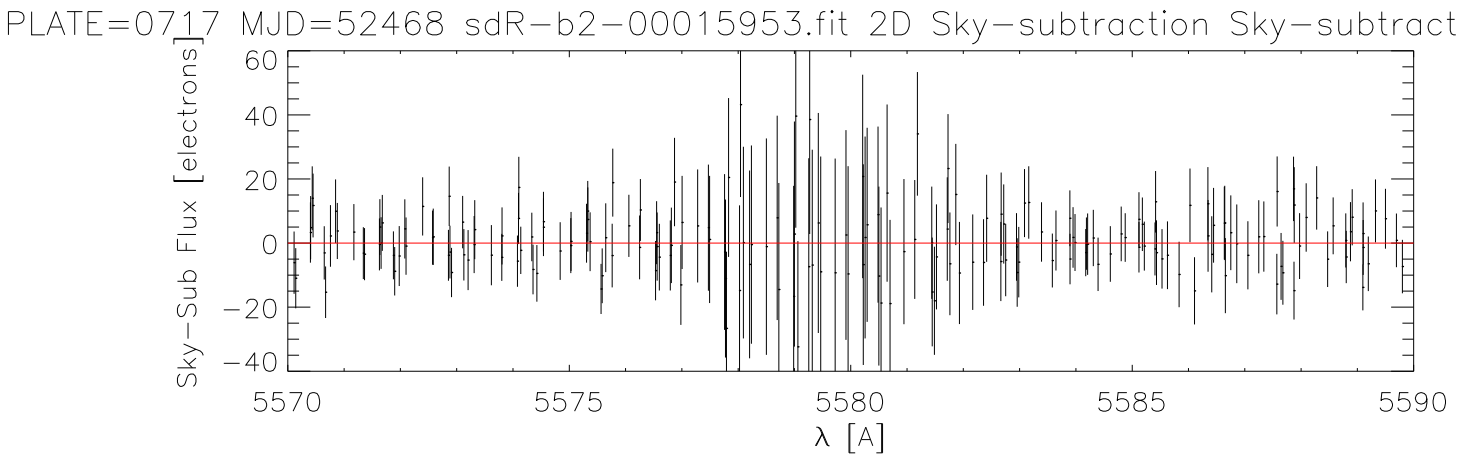

PLATE=0717 MJD=52468 sdR-b2-00015953.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1500
1000
500
0
-500
5570
5575
5580
5585
5590
λ [A]

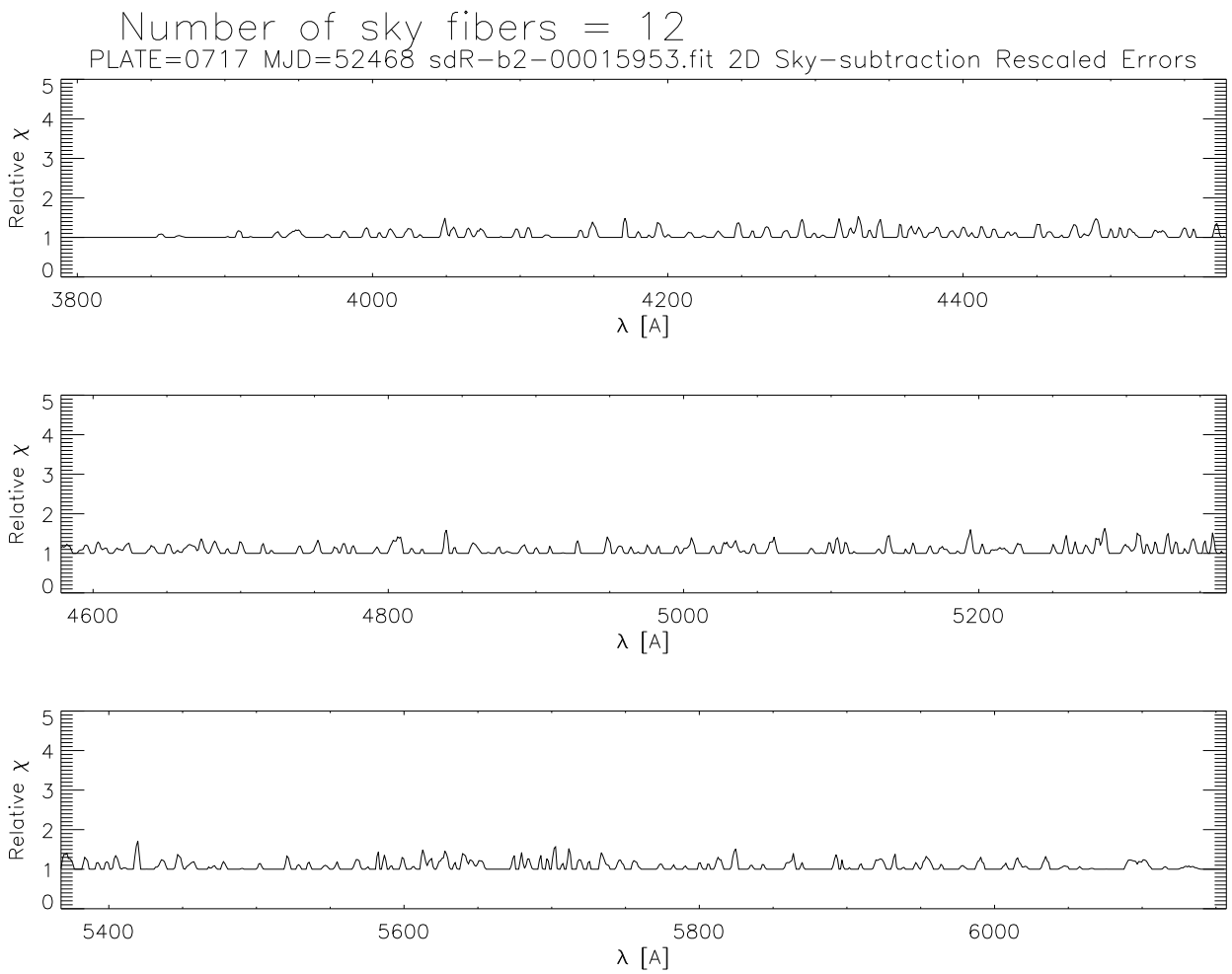

PLATE=0717 MJD=52468 sdR-b2-00015953.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
5570
5575
5580
5585
5590
λ [A]

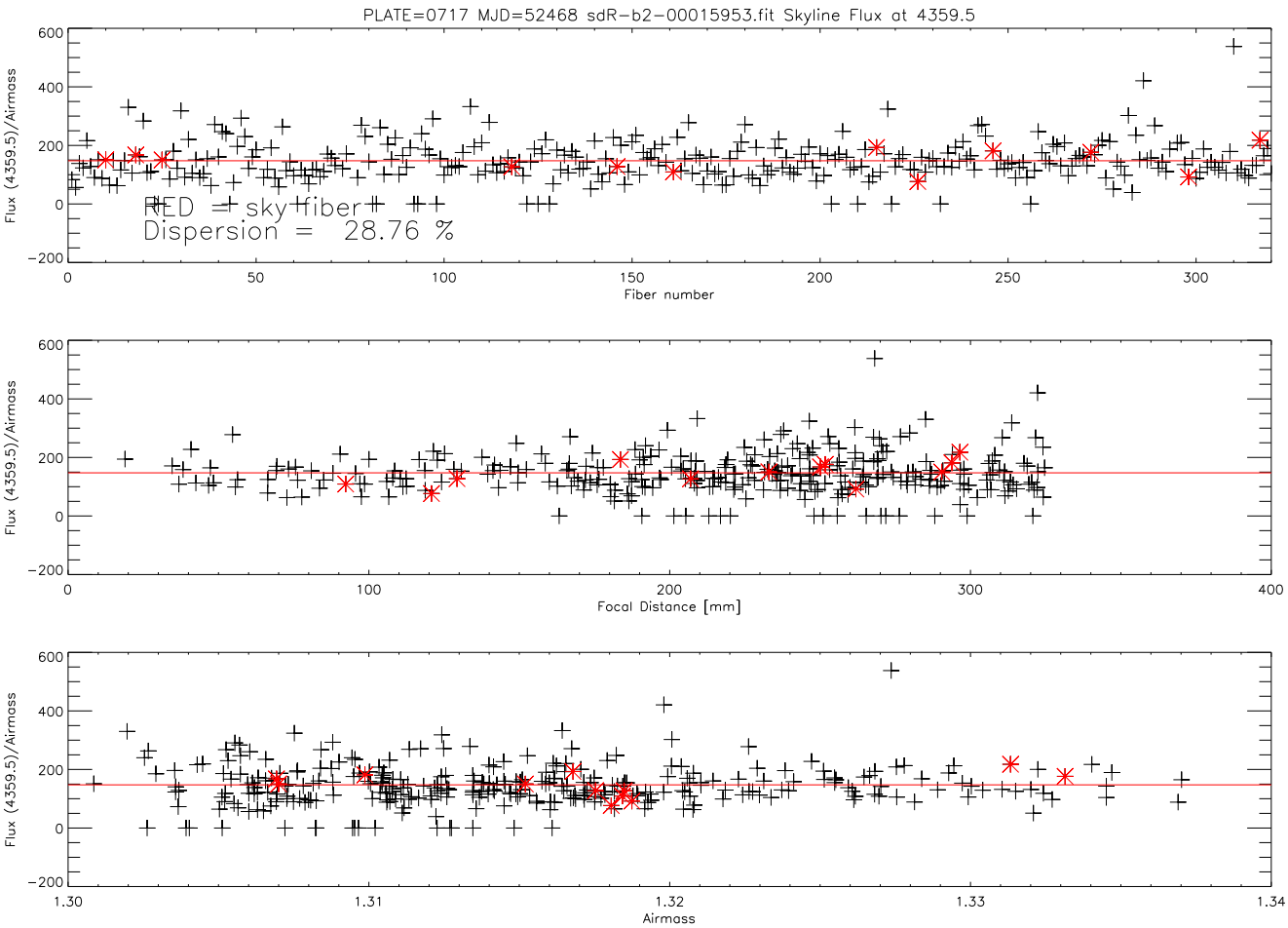

Number of sky fibers = 12
PLATE=0717 MJD=52468 sdR-b2-00015953.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

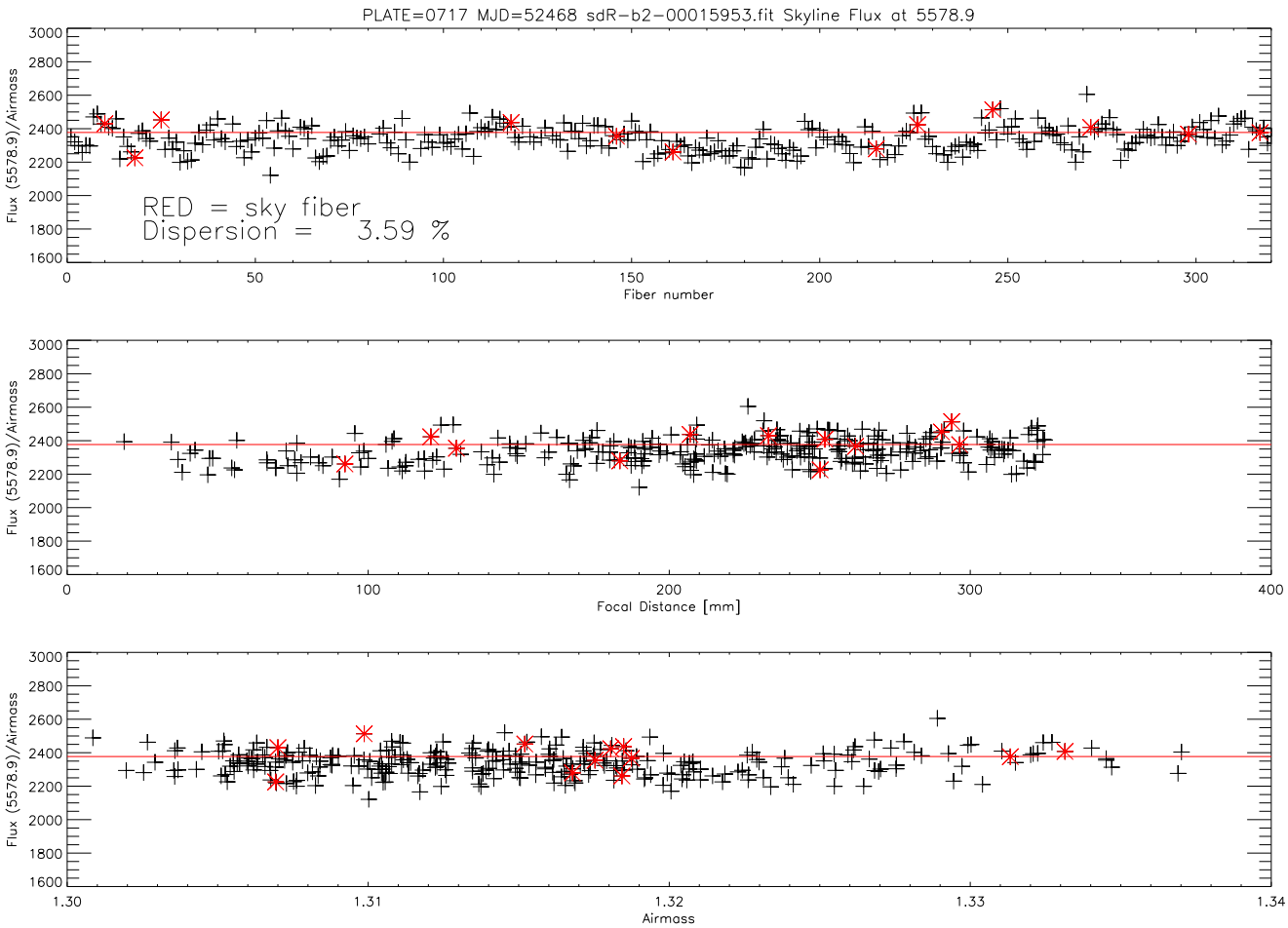

PLATE=0717 MJD=52468 sdR-b2-00015953.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

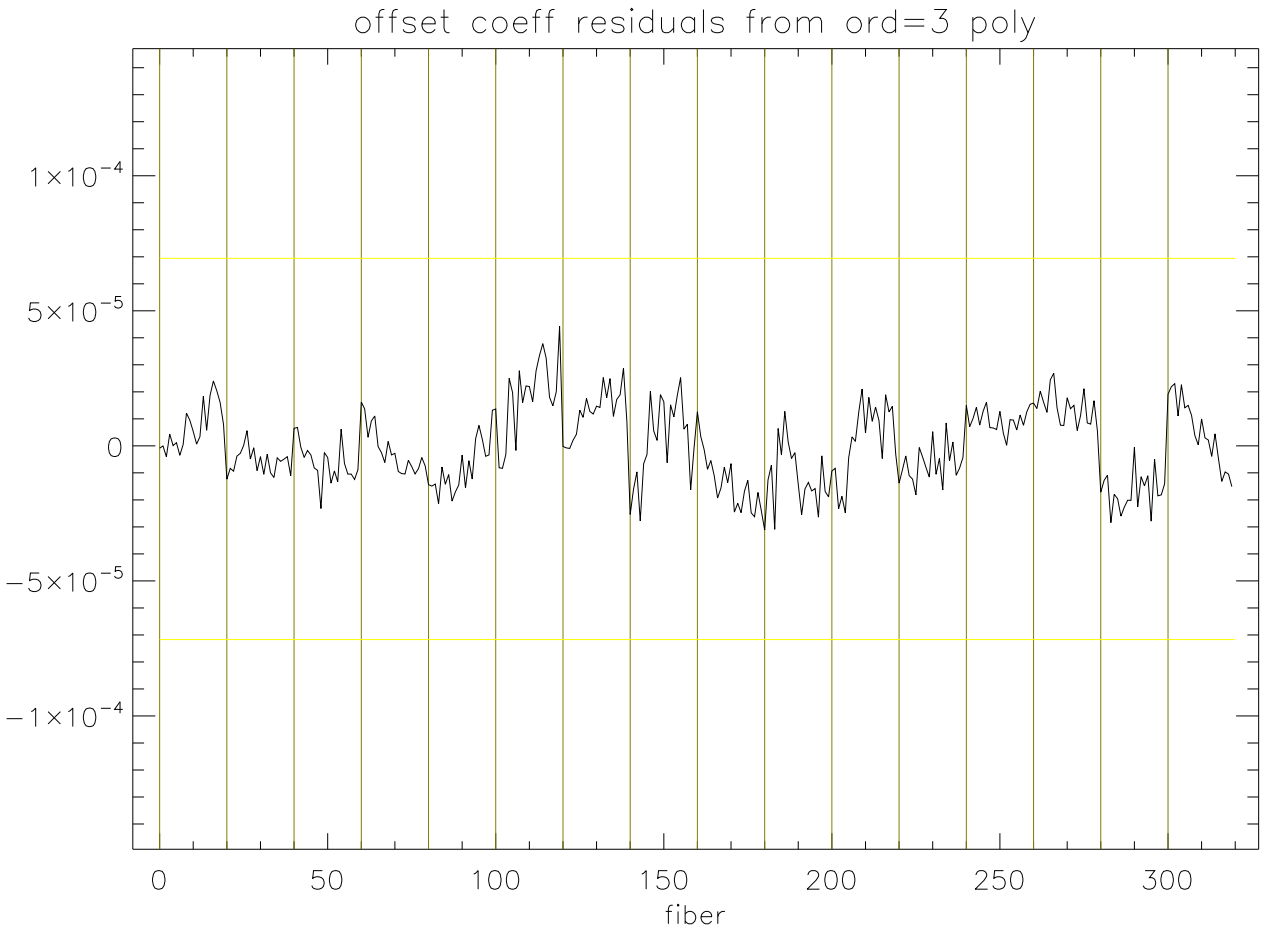

PLATE=0717 MJD=52468 sdR-b2-00015953.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1500
1000
500
0
-500
5570
5575
5580
5585
5590
λ [A]

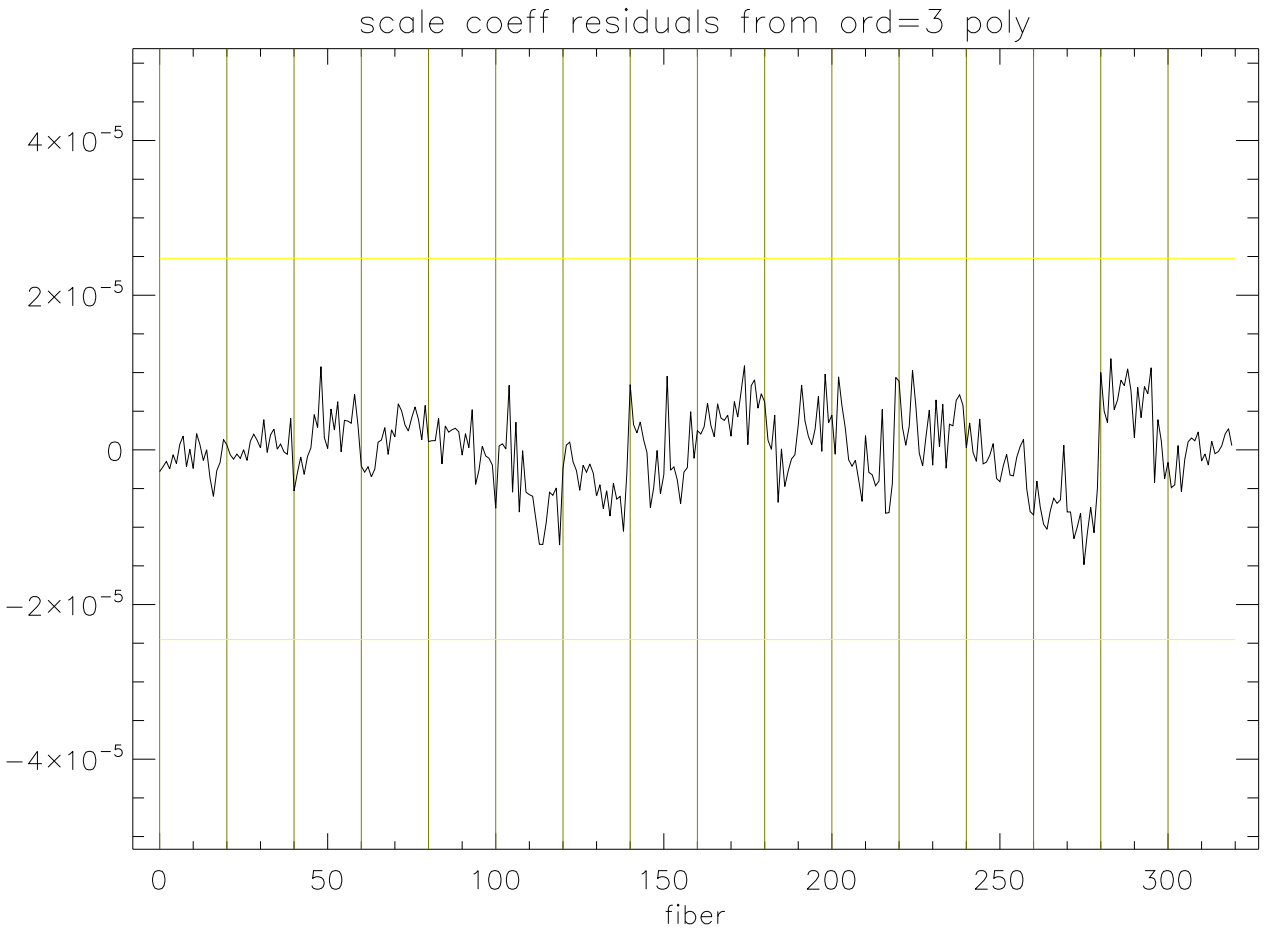

PLATE=0717 MJD=52468 sdR-b2-00015953.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
60
40
20
0
-20
-40
5570
5575
5580
5585
5590
λ [A]

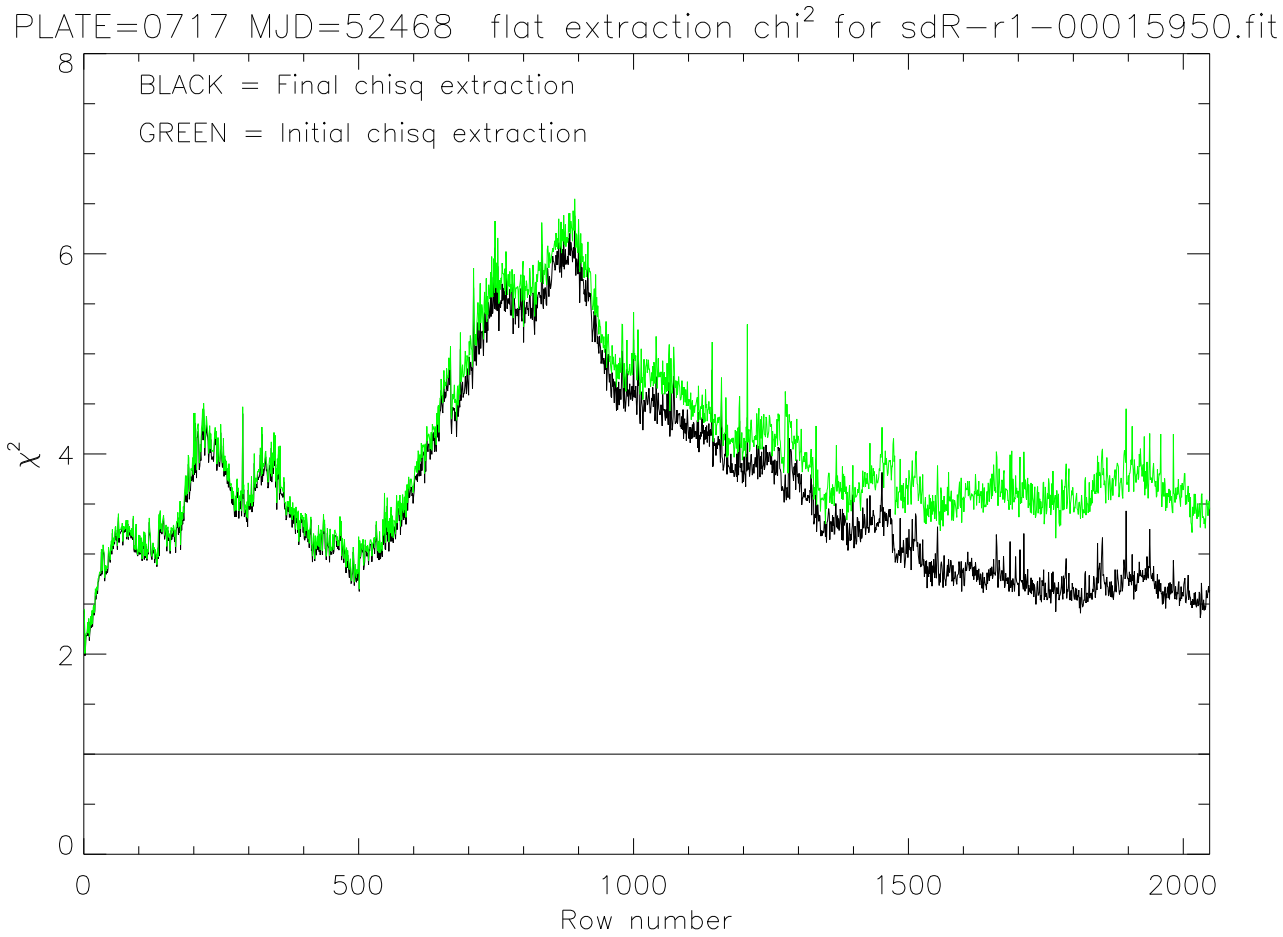

Number of sky fibers = 12
PLATE=0717 MJD=52468 sdR-b2-00015953.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

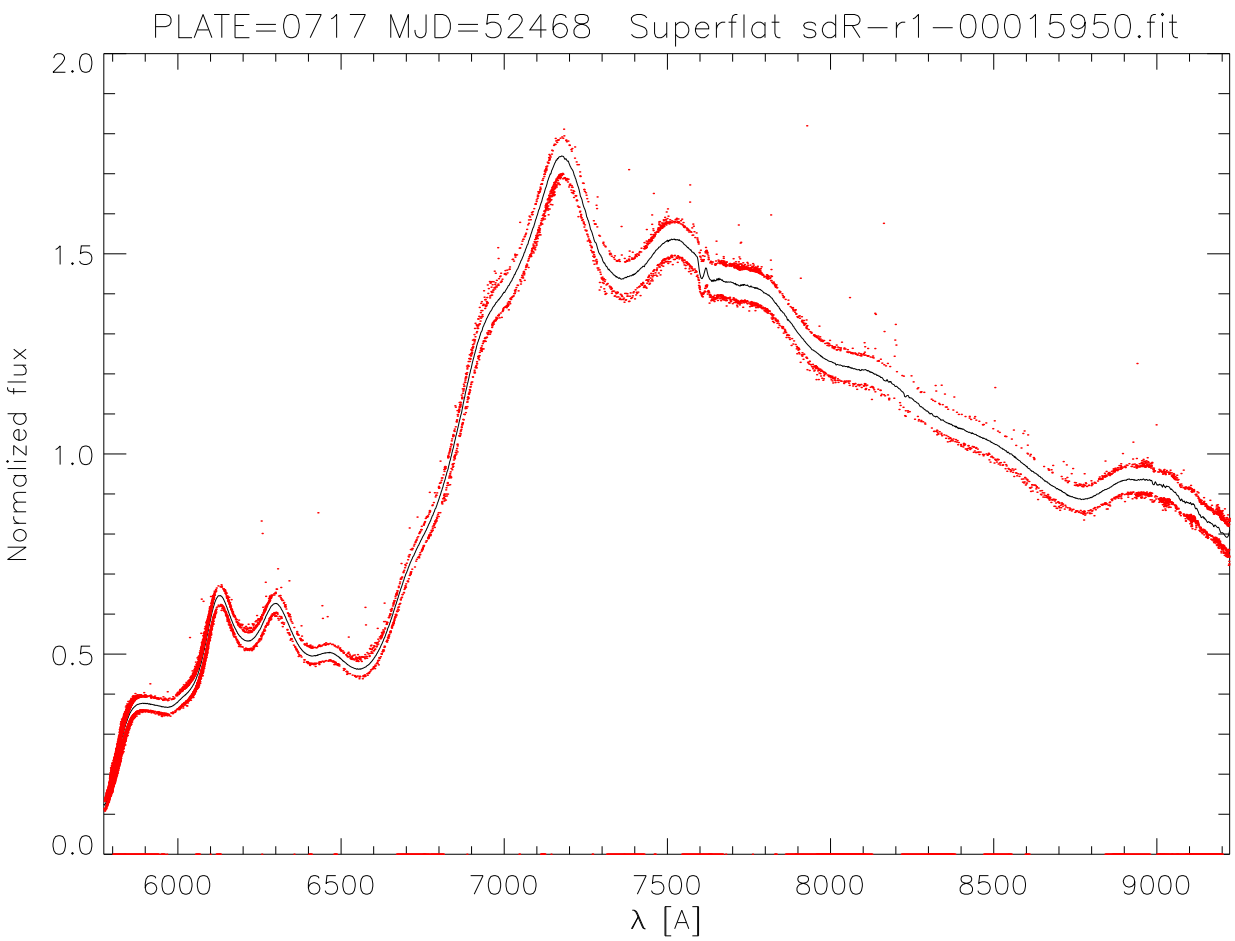

PLATE=0717 MJD=52468 sdR-b2-00015953.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 28.76 %
Fiber number
Focal Distance [mm]
Airmass

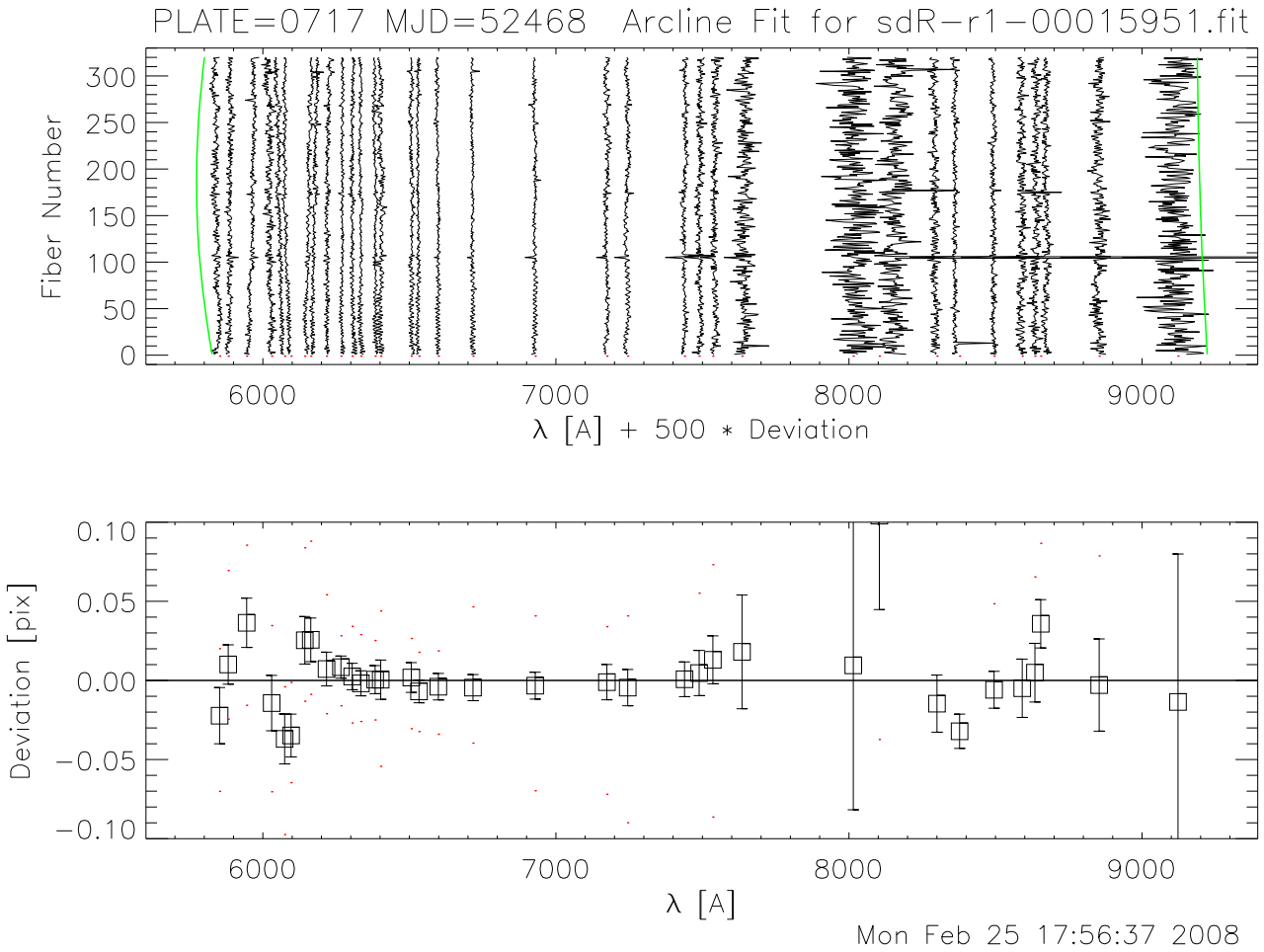

PLATE=0717 MJD=52468 sdR-b2-00015953.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 3.59 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

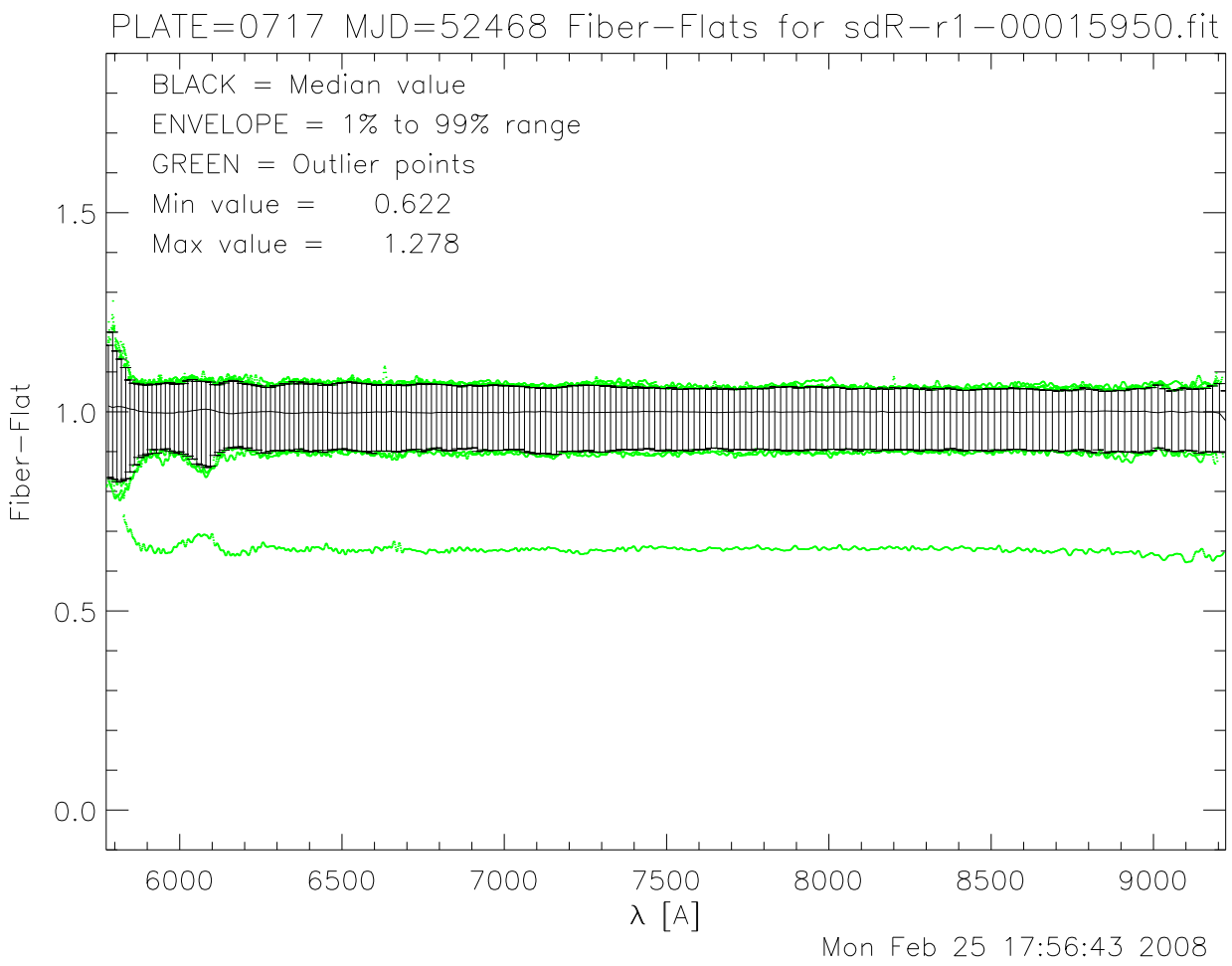

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

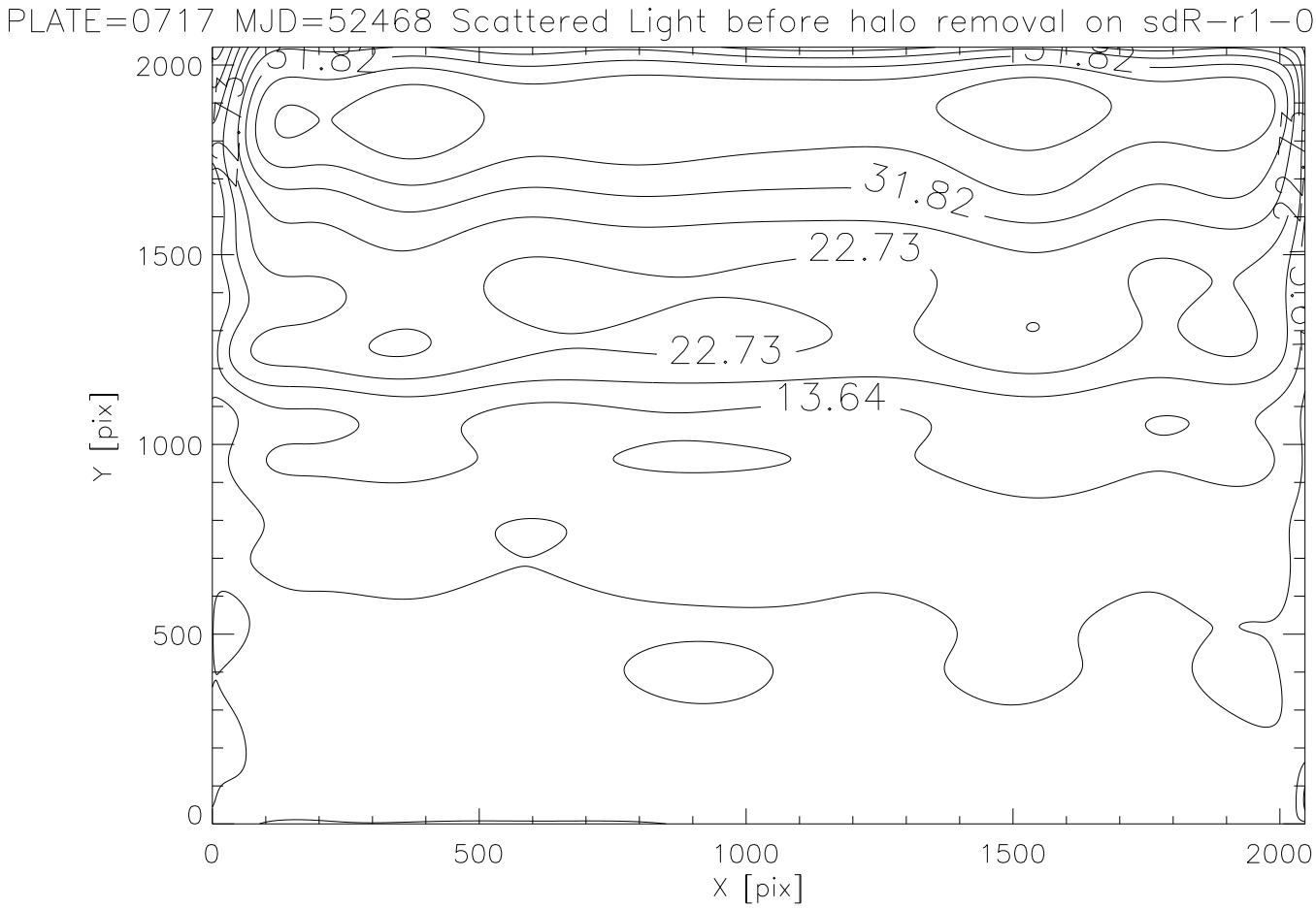

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

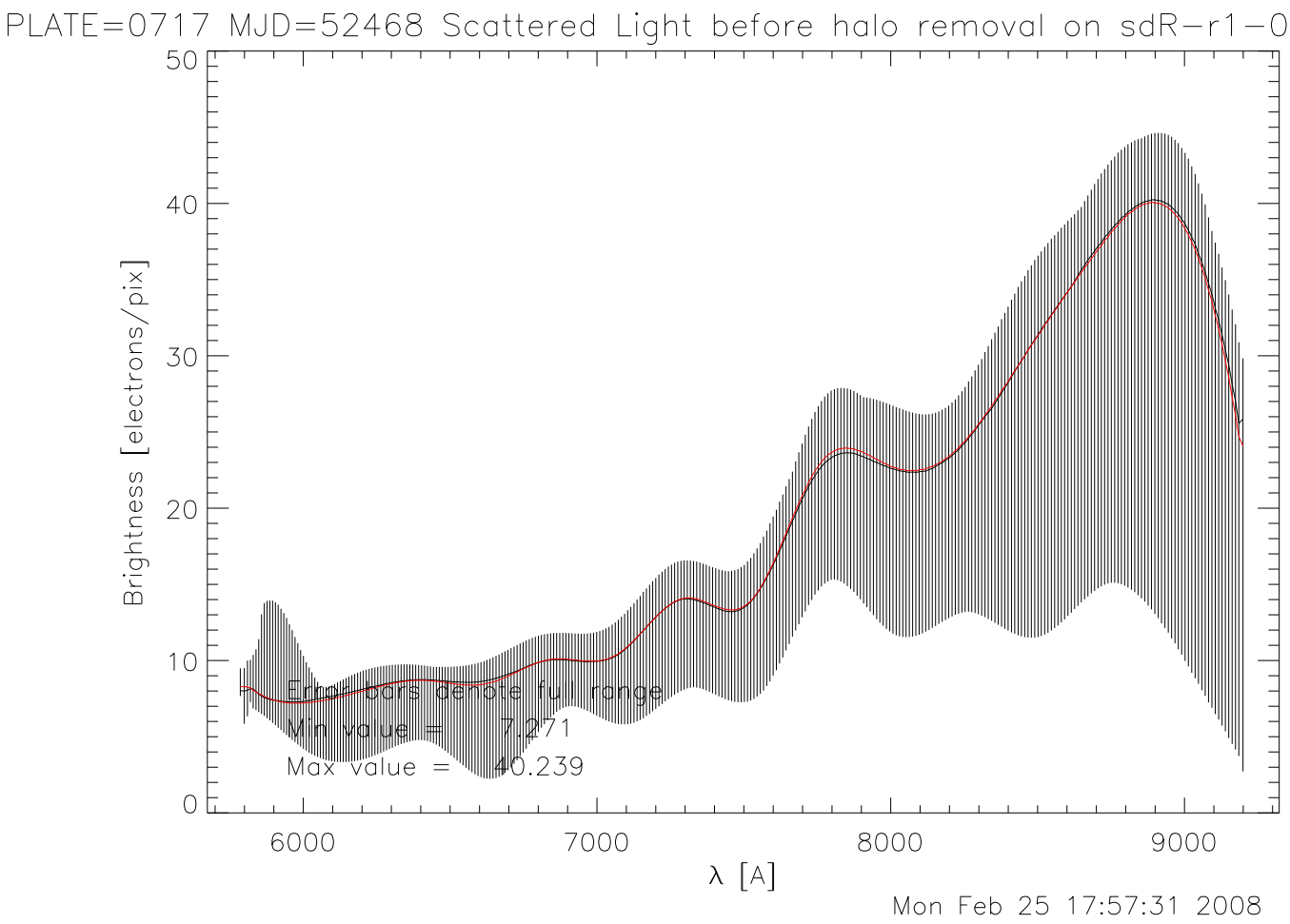

PLATE=0717 MJD=52468 flat extraction chi^2 for sdR−r1−00015950.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

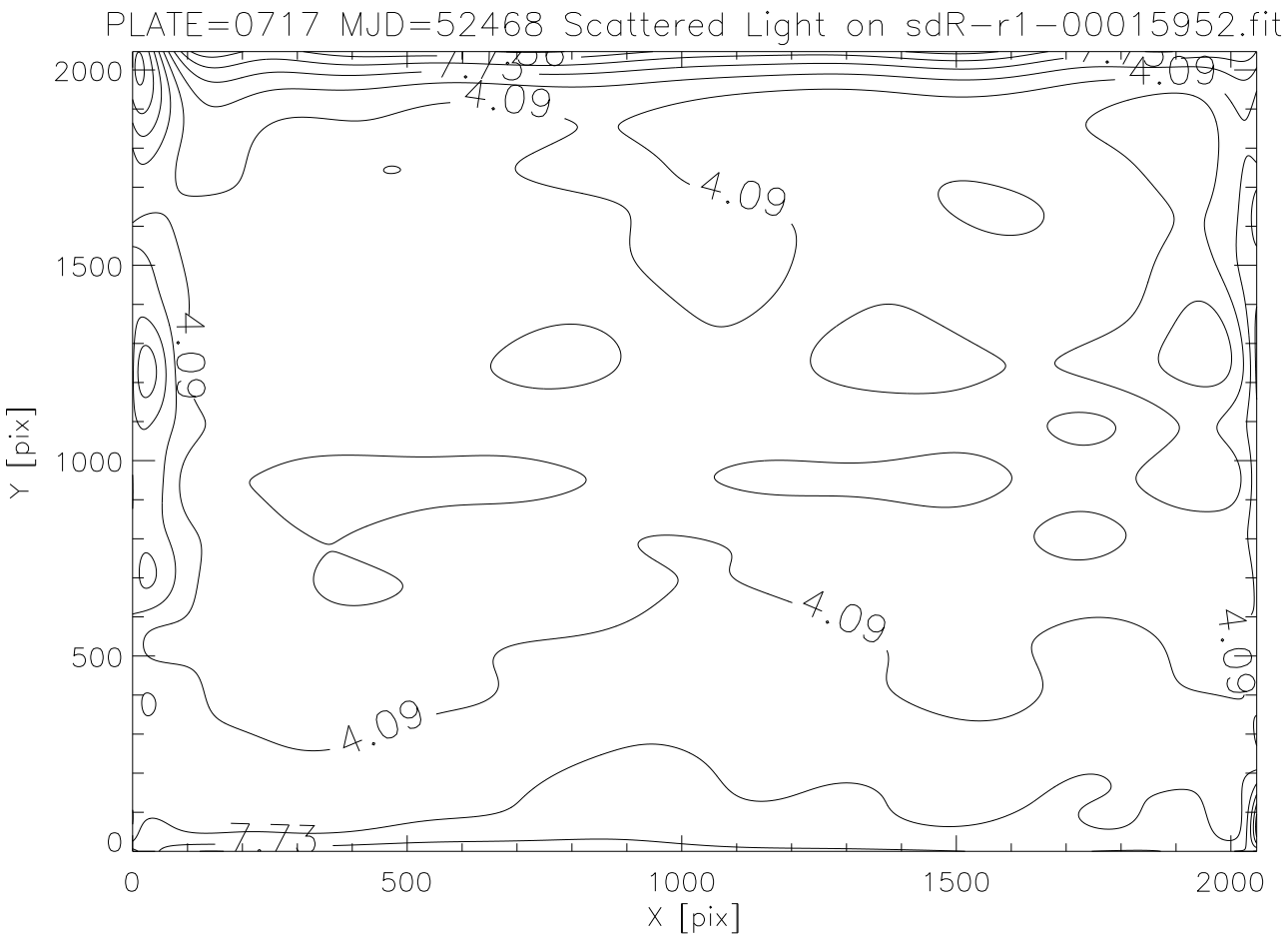

PLATE=0717 MJD=52468 Superflat sdR-r1-00015950.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

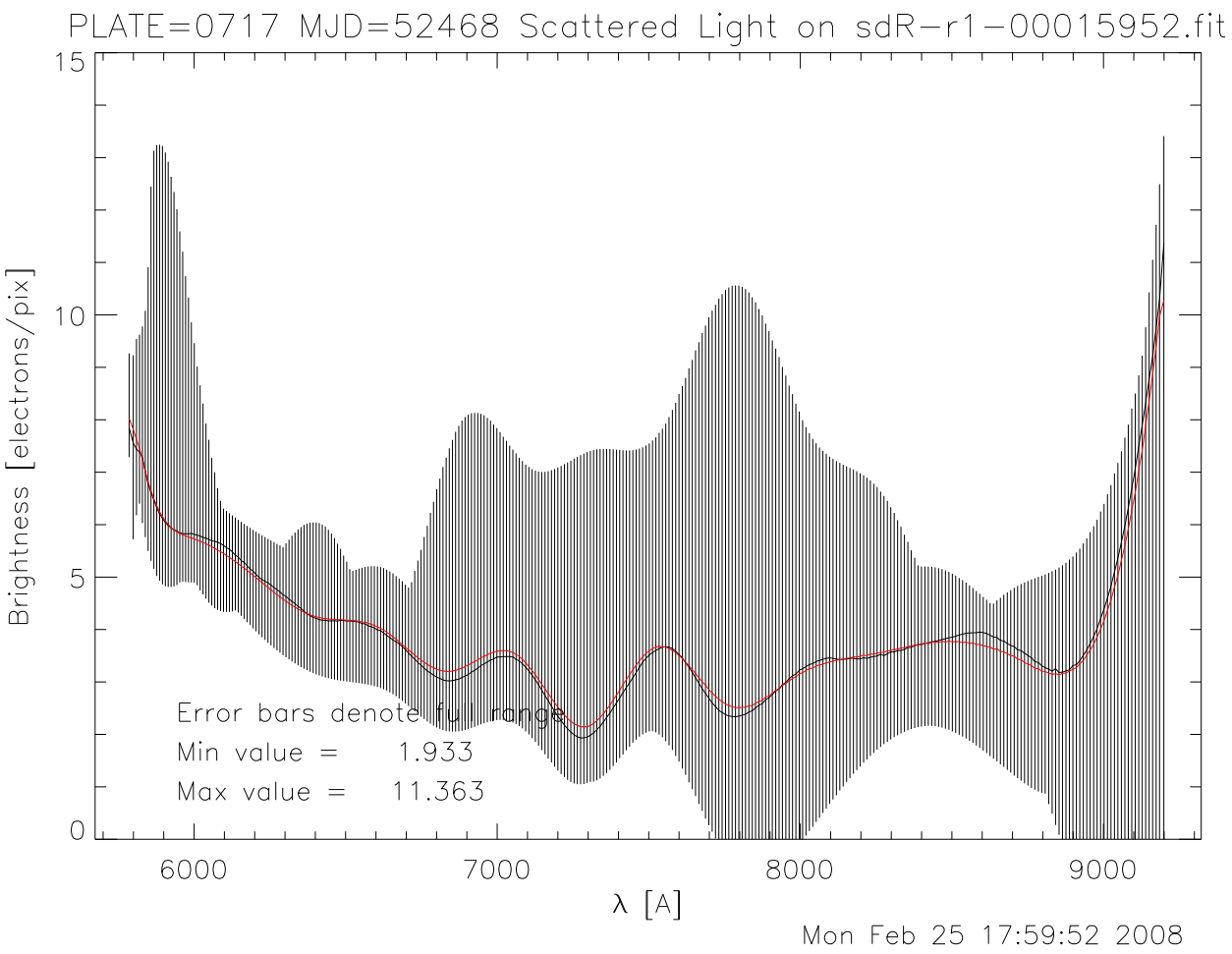

PLATE=0717 MJD=52468 Arcline Fit for sdR-r1-00015951.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Mon Feb 25 17:56:37 2008

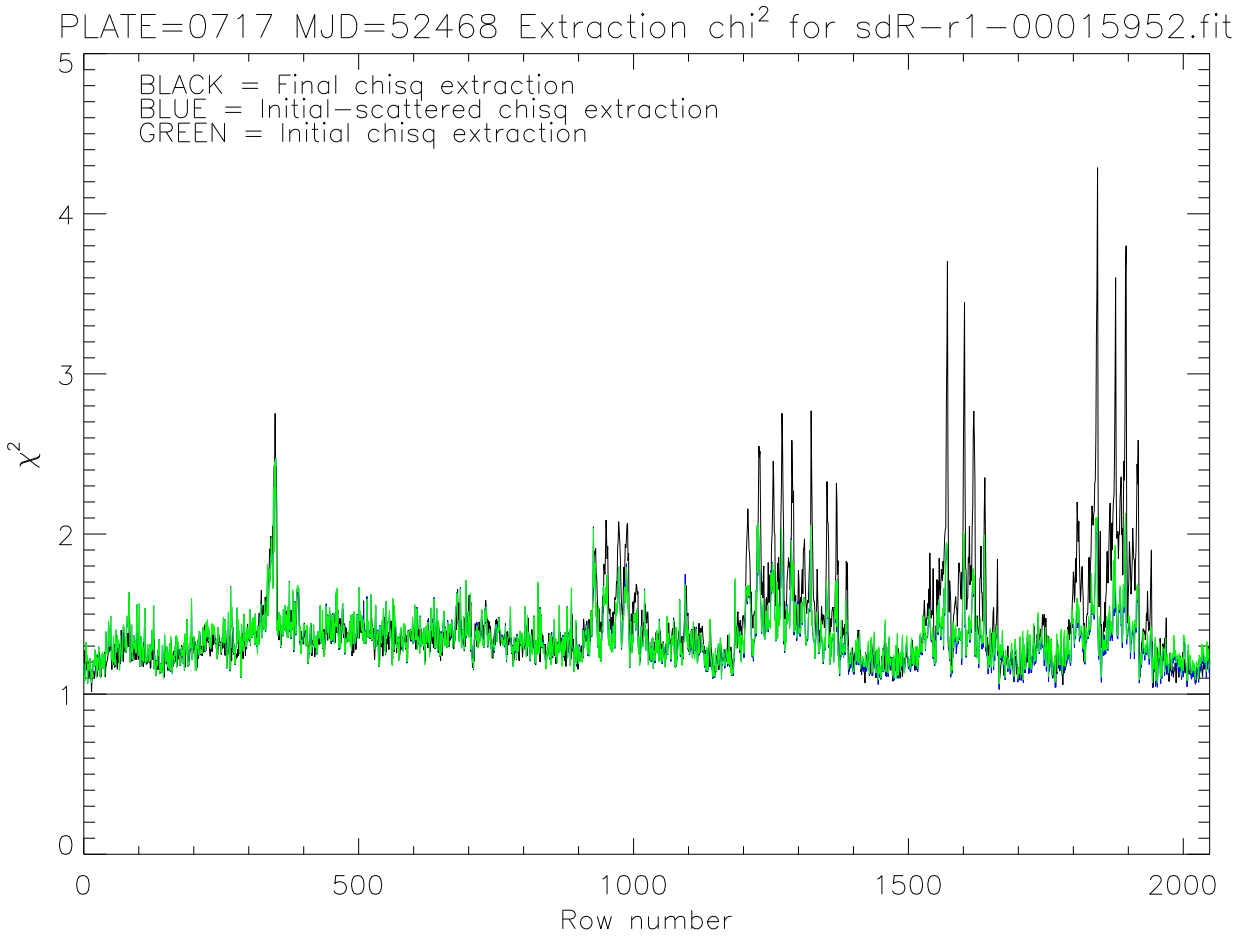

PLATE=0717 MJD=52468 Fiber−Flats for sdR−r1−00015950.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.622
Max value = 1.278
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 25 17:56:43 2008

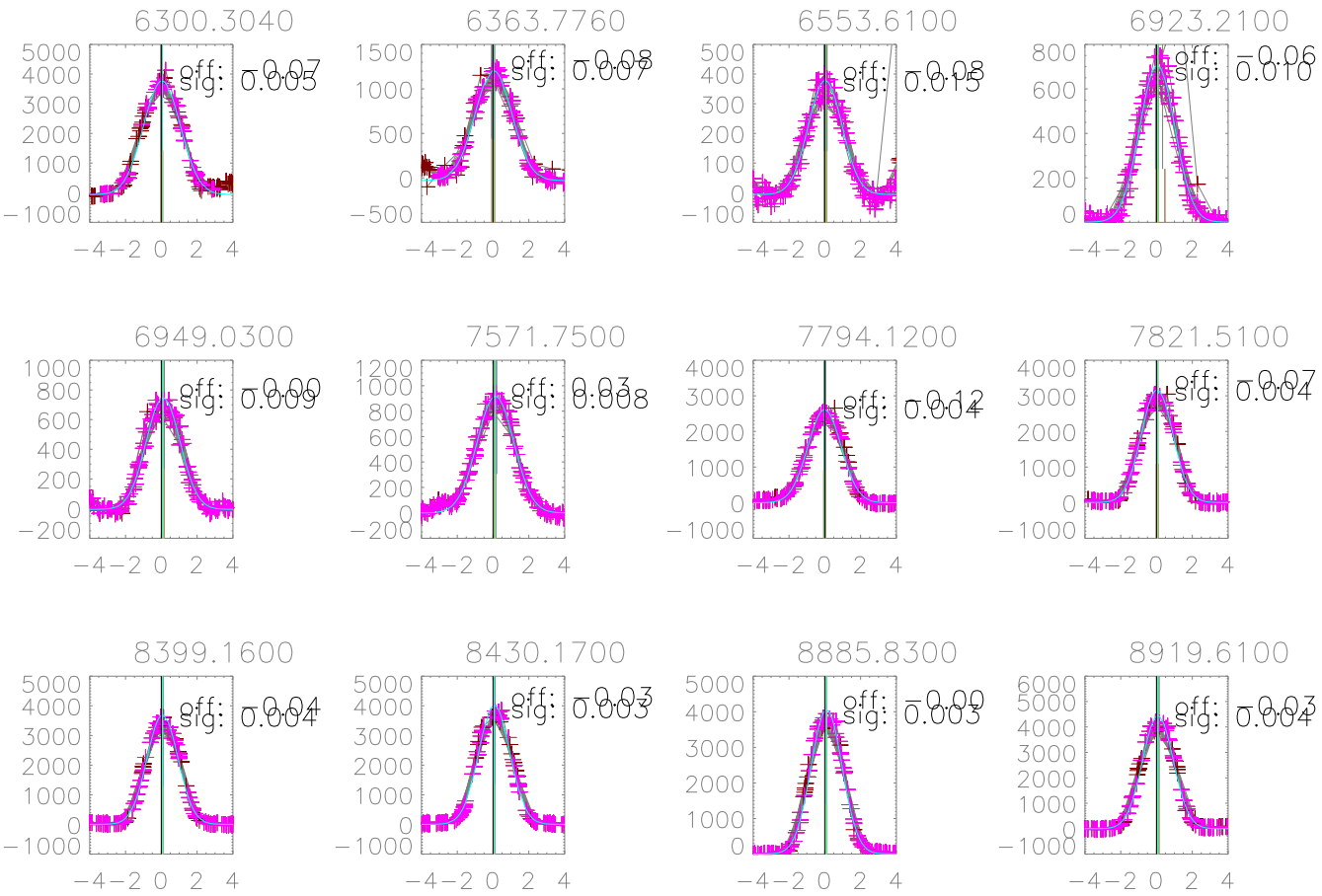

PLATE=0717 MJD=52468 Scattered Light before halo removal on sdR-r1-00015952.fi
31.82
31.82
31.82
22.73
22.73
13.64
Y [pix]
X [pix]
0
500
1000
1500
2000

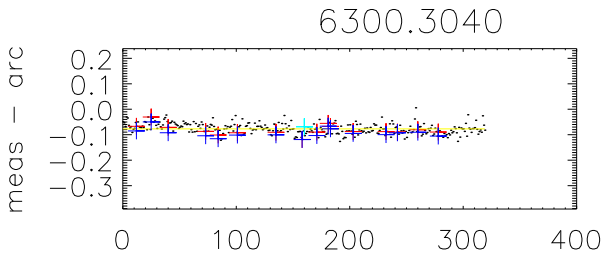

PLATE=0717 MJD=52468 Scattered Light before halo removal on sdR-r1-00015952.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.271
Max value = 40.239
Mon Feb 25 17:57:31 2008

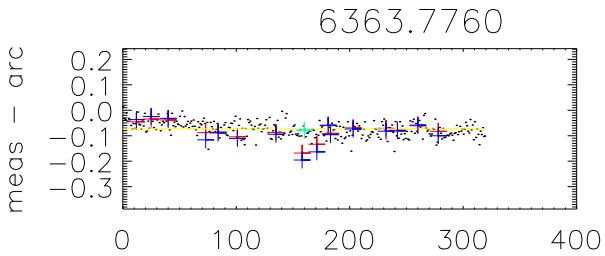

PLATE=0717 MJD=52468 Scattered Light on sdR-r1-00015952.fit
4.09
7.73
0
Y [pix]
X [pix]
2000
1500
1000
500
0

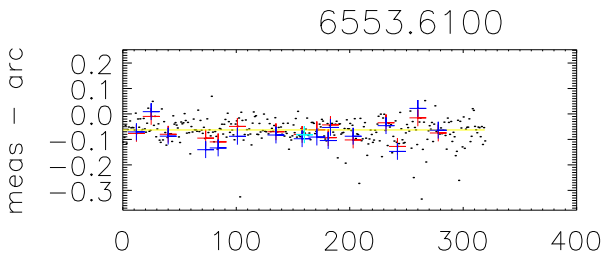

PLATE=0717 MJD=52468 Scattered Light on sdR-r1-00015952.fit
Brightness [electrons/pix]
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 1.933
Max value = 11.363
Mon Feb 25 17:59:52 2008

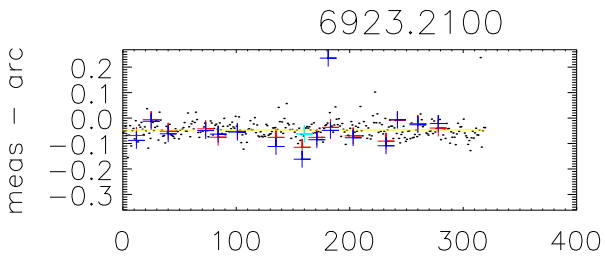

PLATE=0717 MJD=52468 Extraction chi^2 for sdR−r1−00015952.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

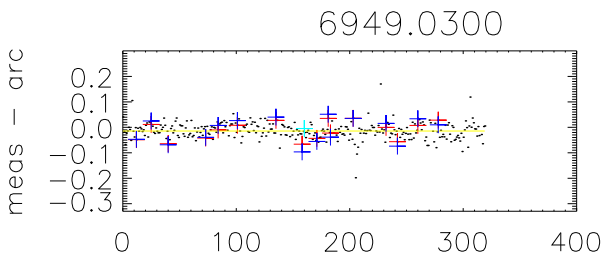

6300.3040
off: −0.07
sig: 0.005
6363.7760
off: −0.08
sig: 0.007
6553.6100
off: −0.08
sig: 0.015
6923.2100
off: −0.06
sig: 0.010
6949.0300
off: −0.00
sig: 0.009
7571.7500
off: 0.03
sig: 0.008
7794.1200
off: −0.12
sig: 0.004
7821.5100
off: −0.07
sig: 0.004
8399.1600
off: −0.04
sig: 0.004
8430.1700
off: −0.03
sig: 0.003
8885.8300
off: −0.00
sig: 0.003
8919.6100
off: −0.03
sig: 0.004

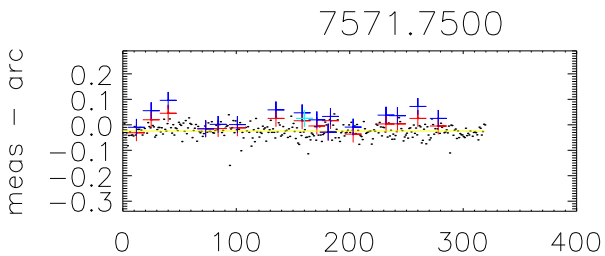

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

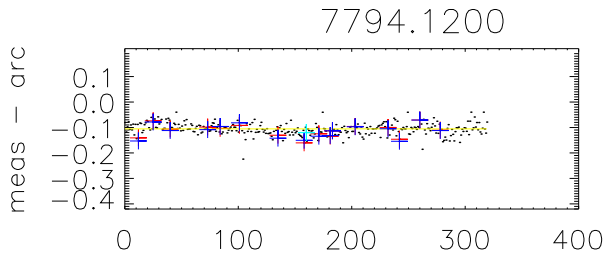

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

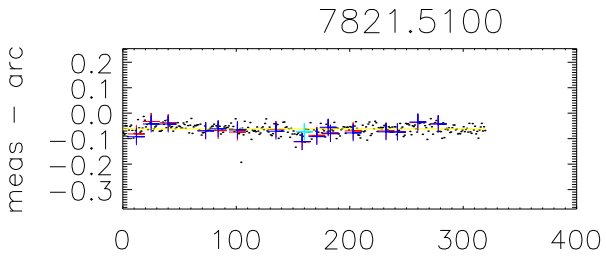

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

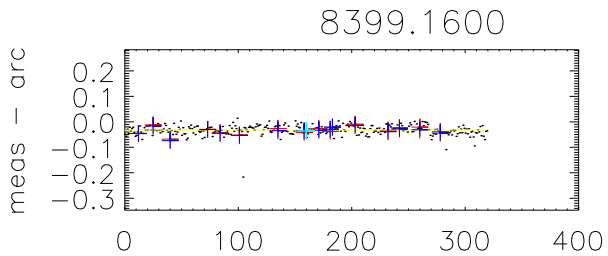

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

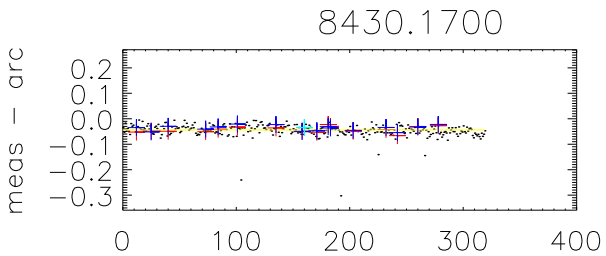

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

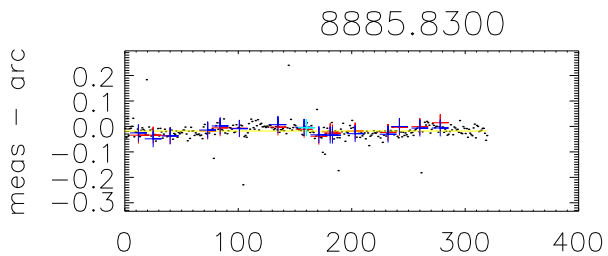

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

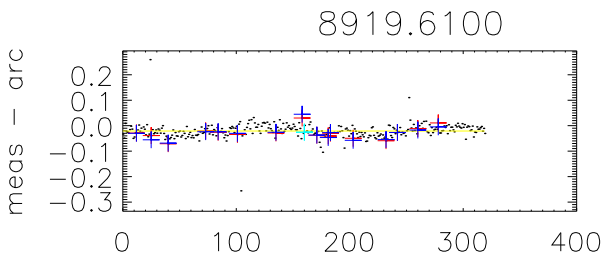

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

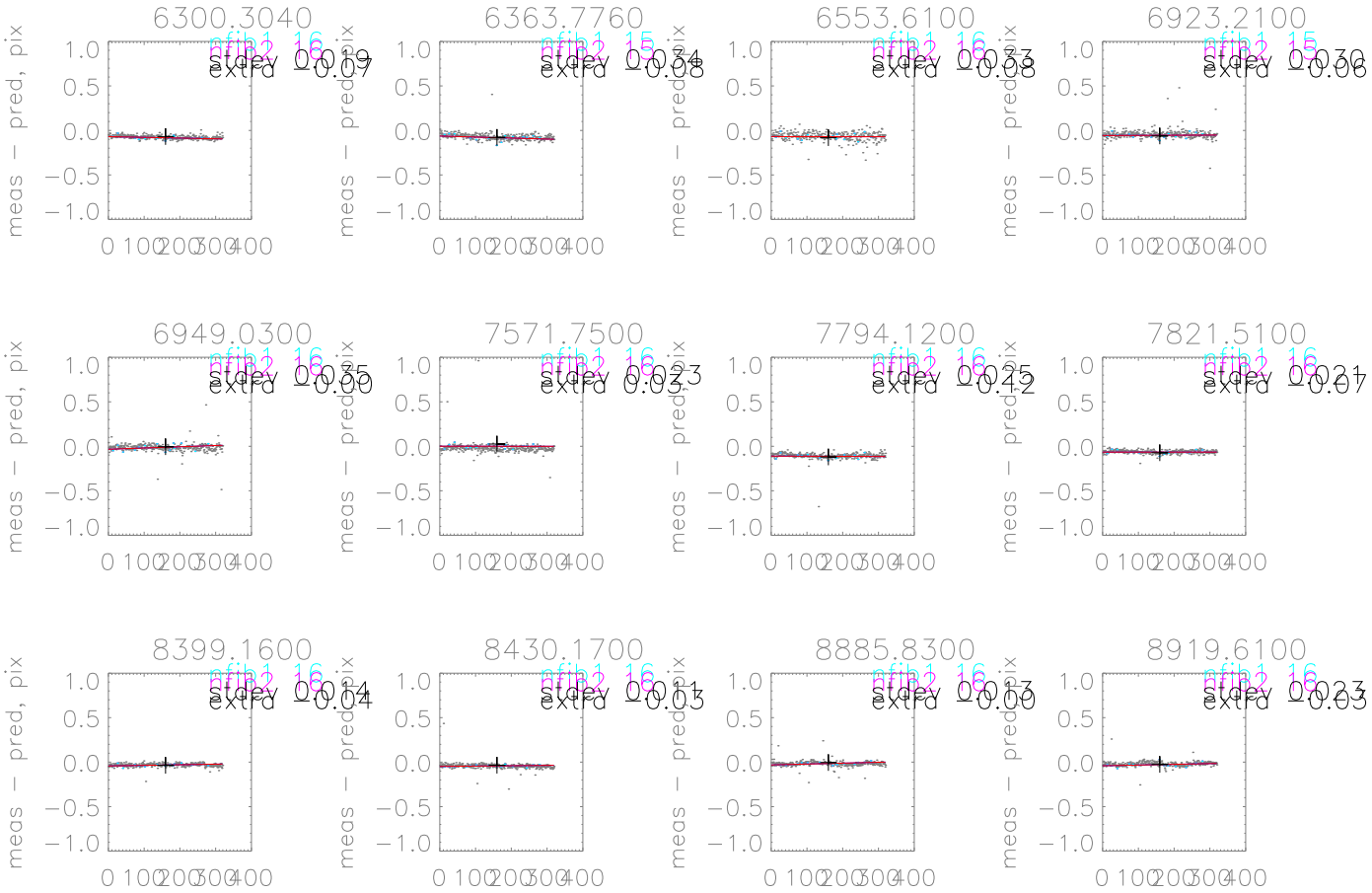

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

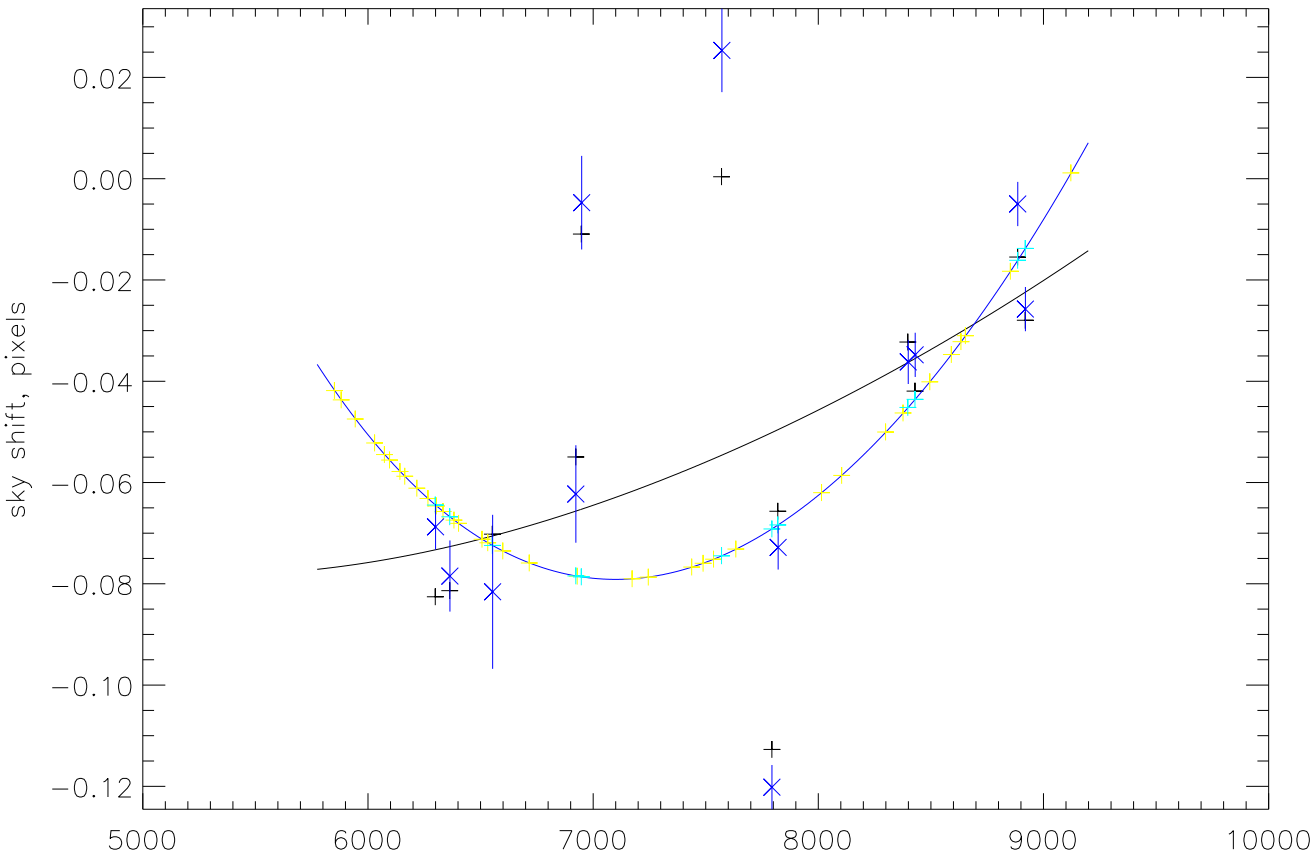

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

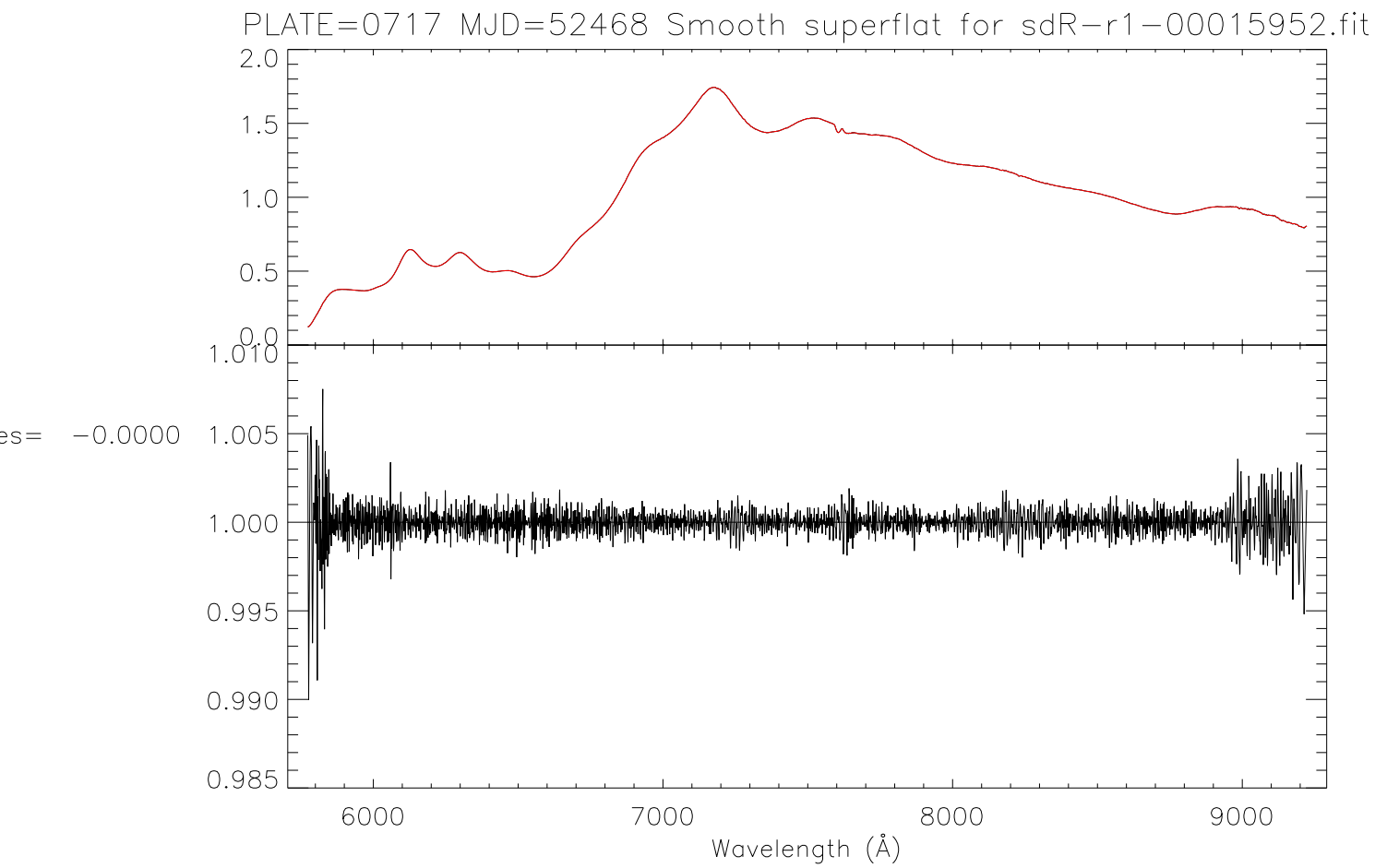

8430.1700
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

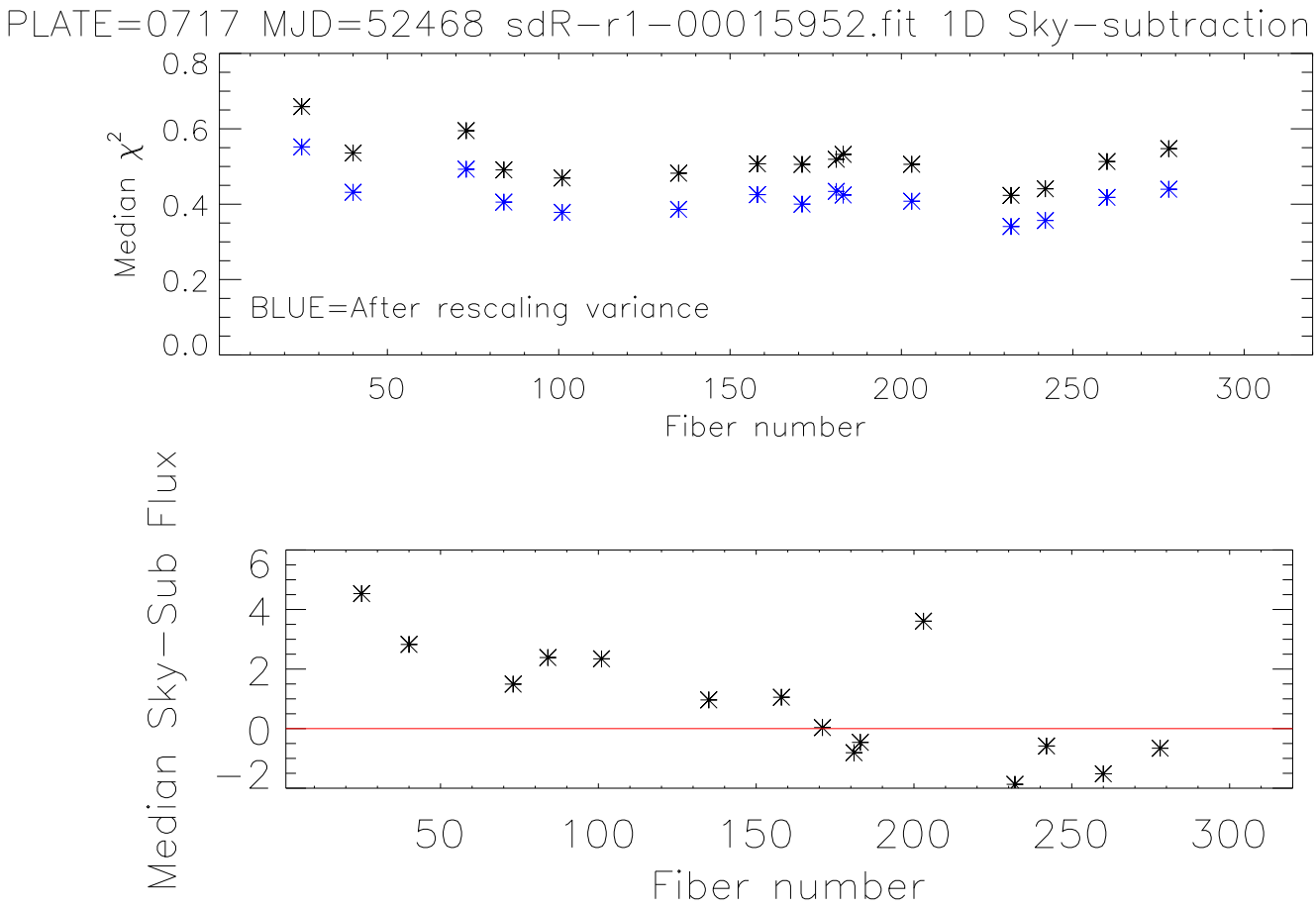

8885.8300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

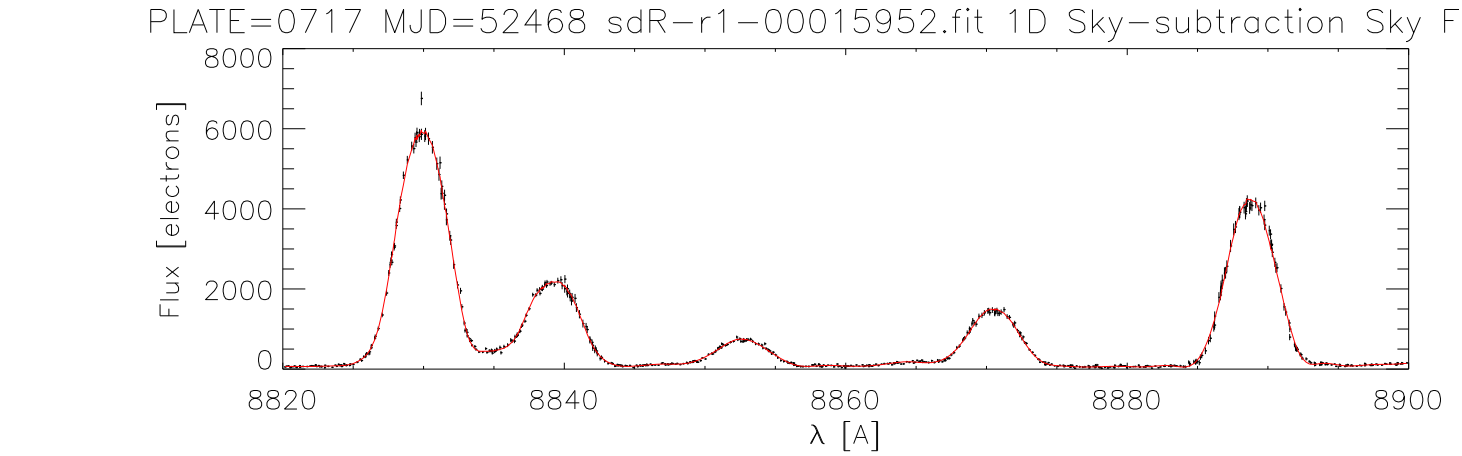

6300.3040
6363.7760
6553.6100
6923.2100
6949.0300
7571.7500
7794.1200
7821.5100
8399.1600
8430.1700
8885.8300
8919.6100
meas − pred, pix
mfhd2 16
mfhd2 15
stdev 0.09
extra −0.07
stdev 0.04
extra −0.08
stdev 0.03
extra −0.08
stdev 0.03
extra −0.06
stdev 0.05
extra −0.00
stdev 0.023
extra 0.03
stdev 0.025
extra −0.42
stdev 0.021
extra −0.07
stdev 0.04
extra −0.04
stdev 0.041
extra −0.03
stdev 0.013
extra −0.00
stdev 0.023
extra −0.03

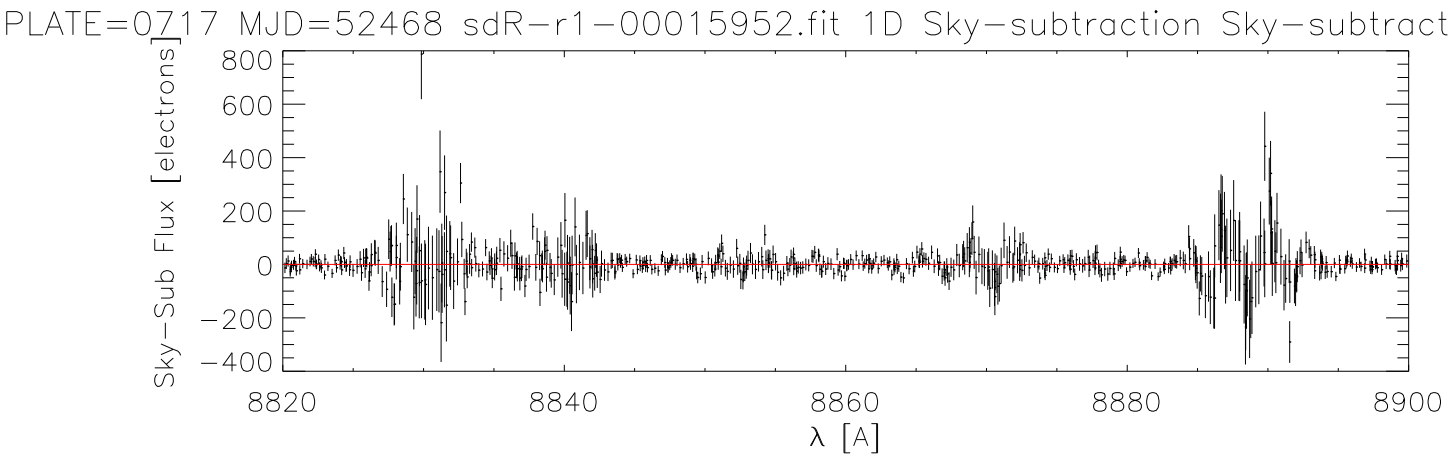

sky shift, pixels
0.02
0.00
−0.02
−0.04
−0.06
−0.08
−0.10
−0.12
5000
6000
7000
8000
9000
10000

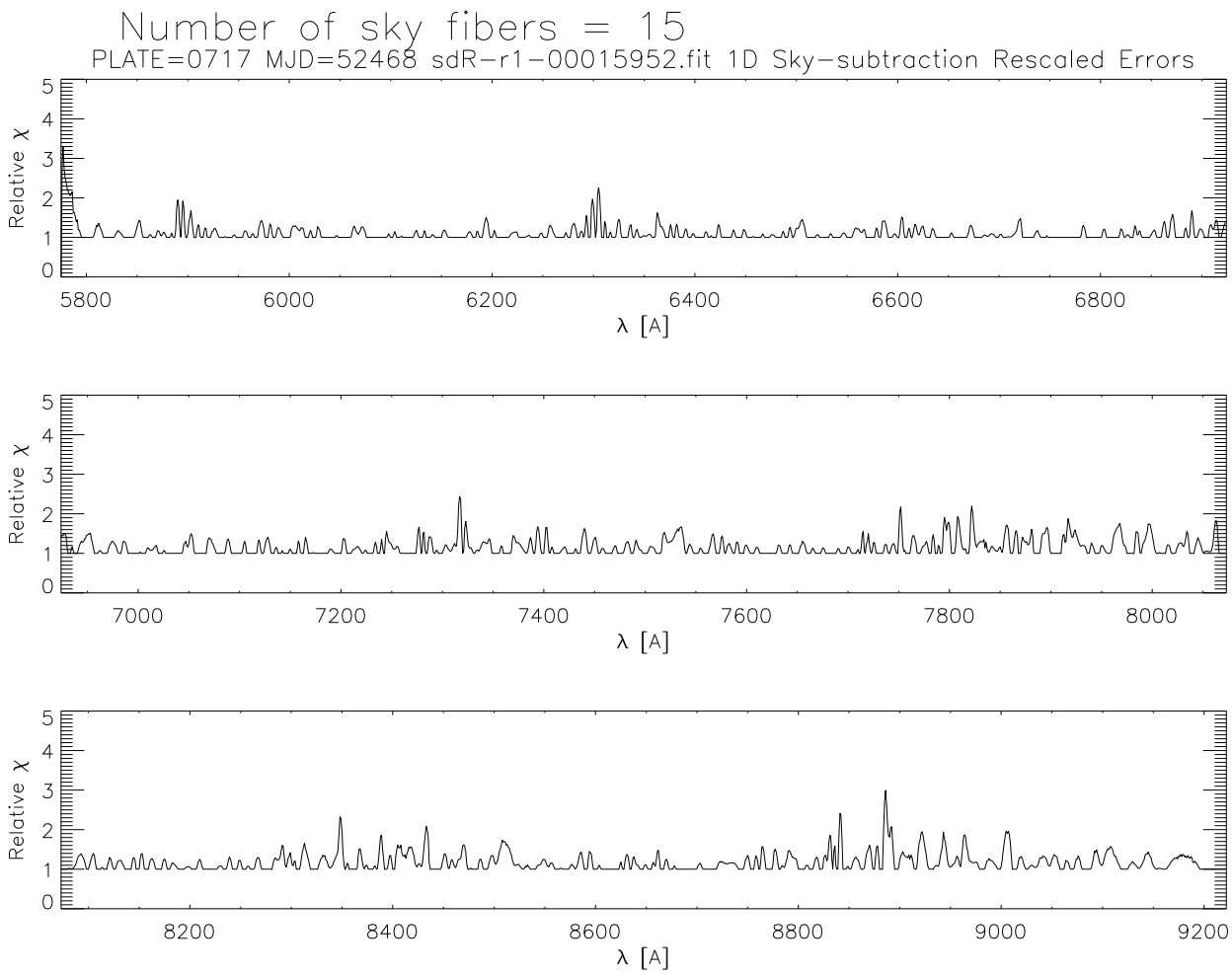

PLATE=0717 MJD=52468 Smooth superflat for sdR-r1-00015952.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

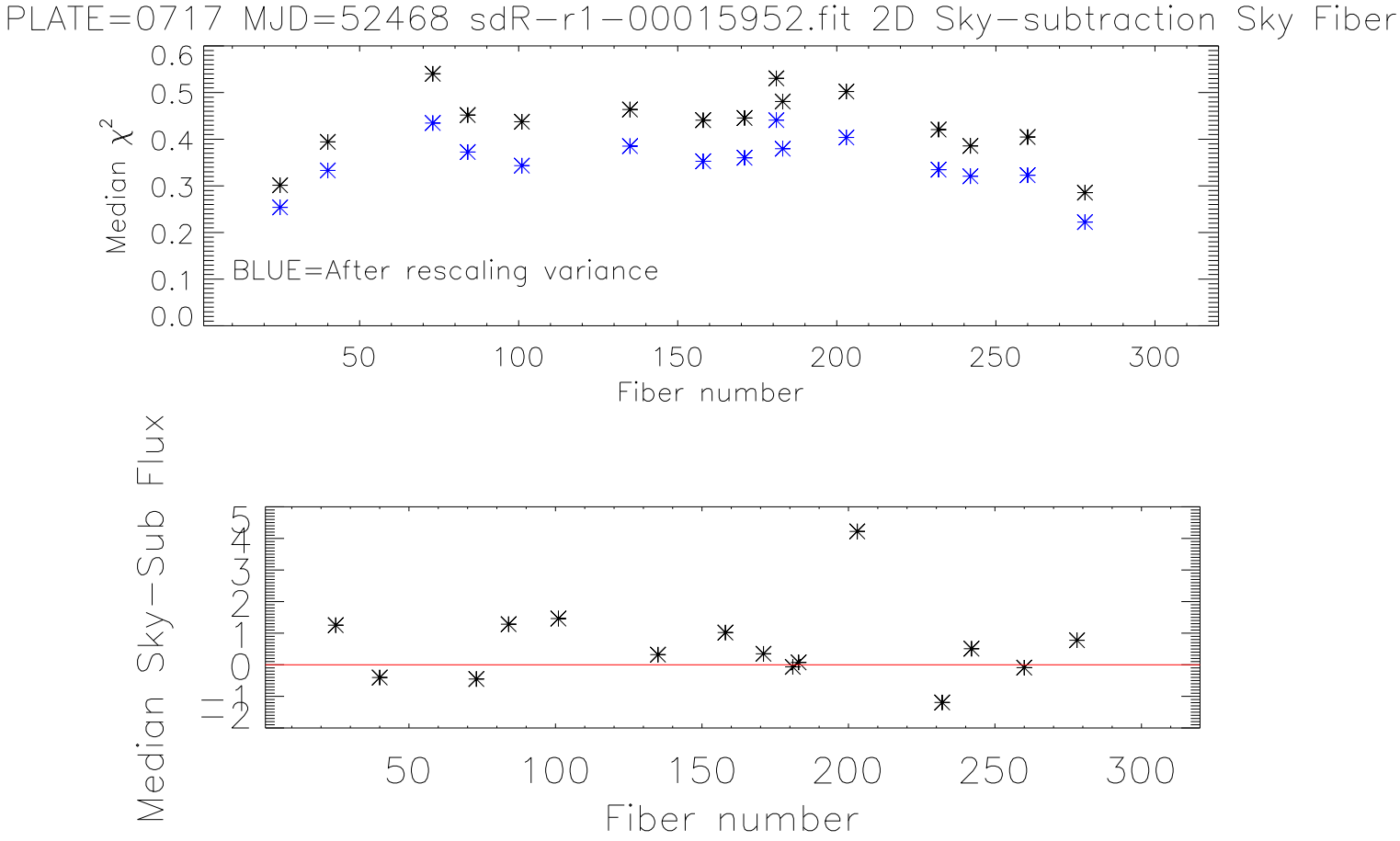

PLATE=0717 MJD=52468 sdR-r1-00015952.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

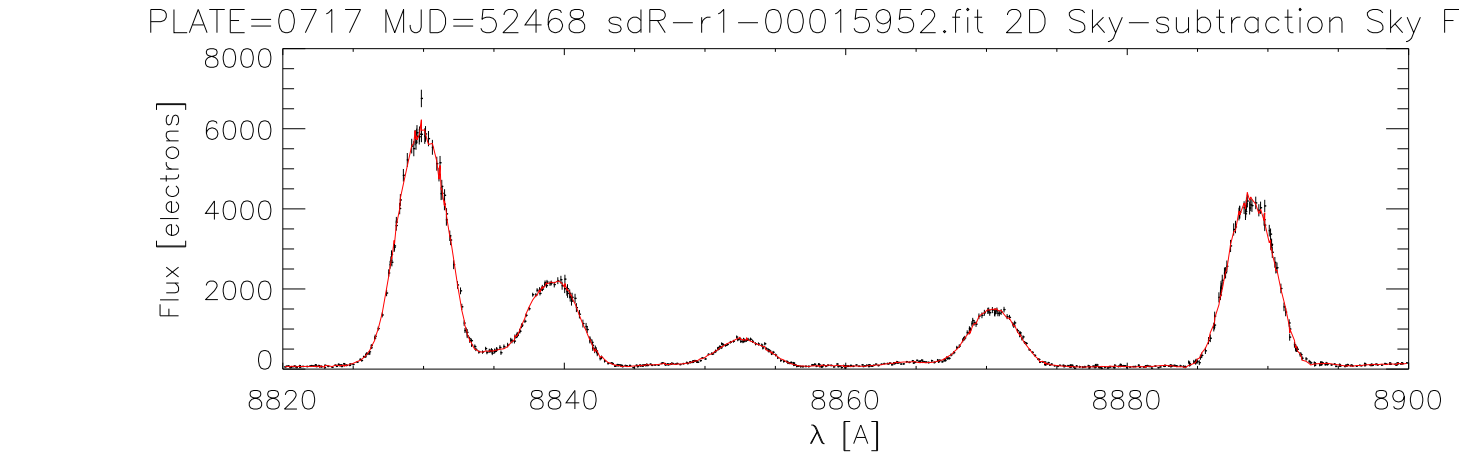
Median Sky-Sub Flux
−2
0
2
4
6
50
100
150
200
250
300
Fiber number

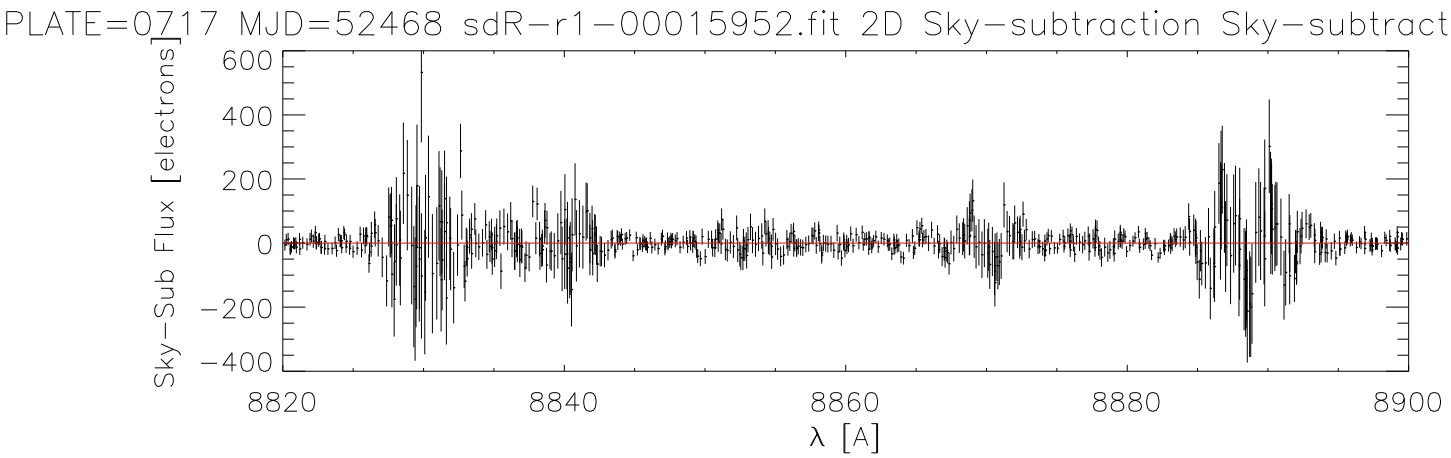

PLATE=0717 MJD=52468 sdR-r1-00015952.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

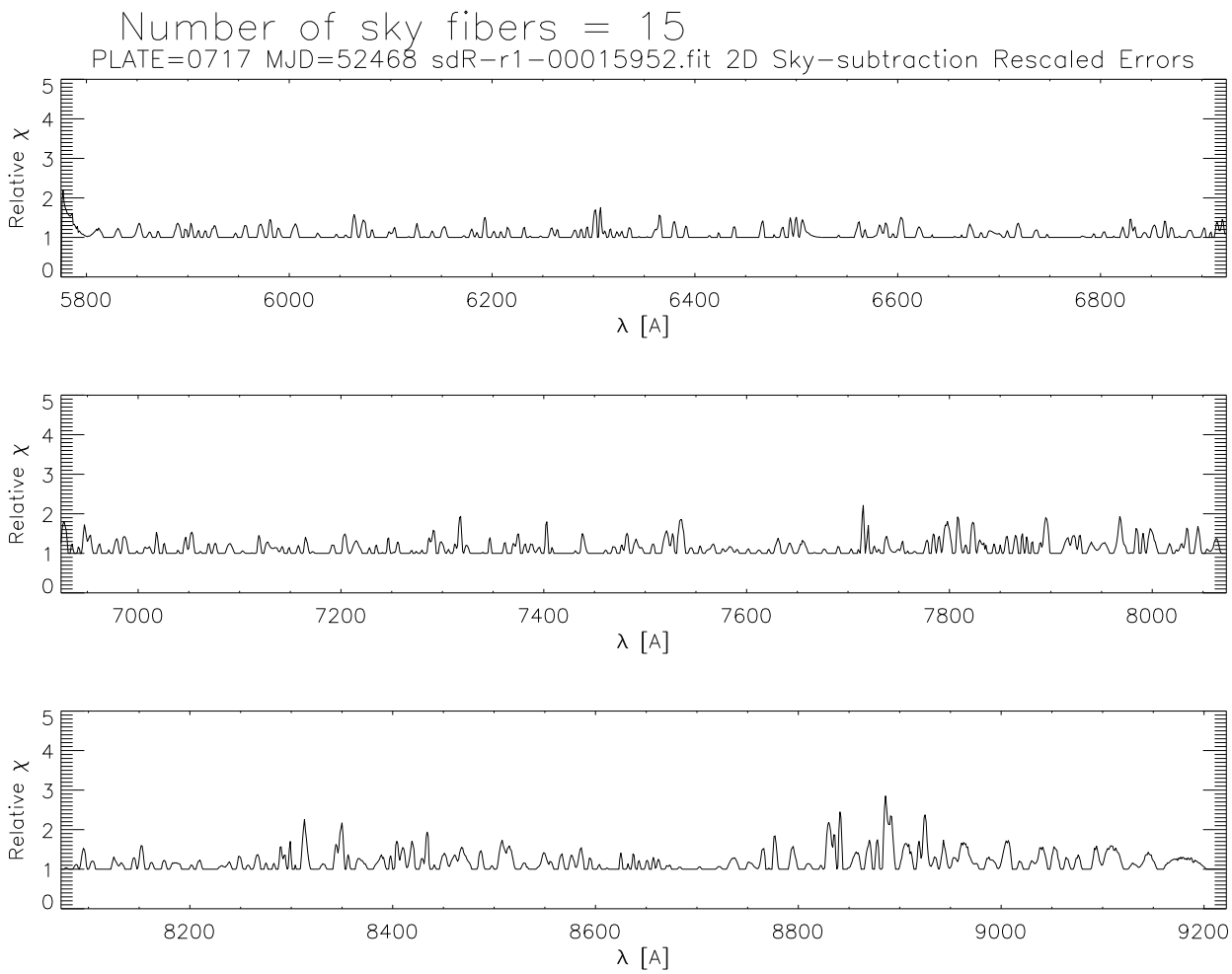

PLATE=0717 MJD=52468 sdR-r1-00015952.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

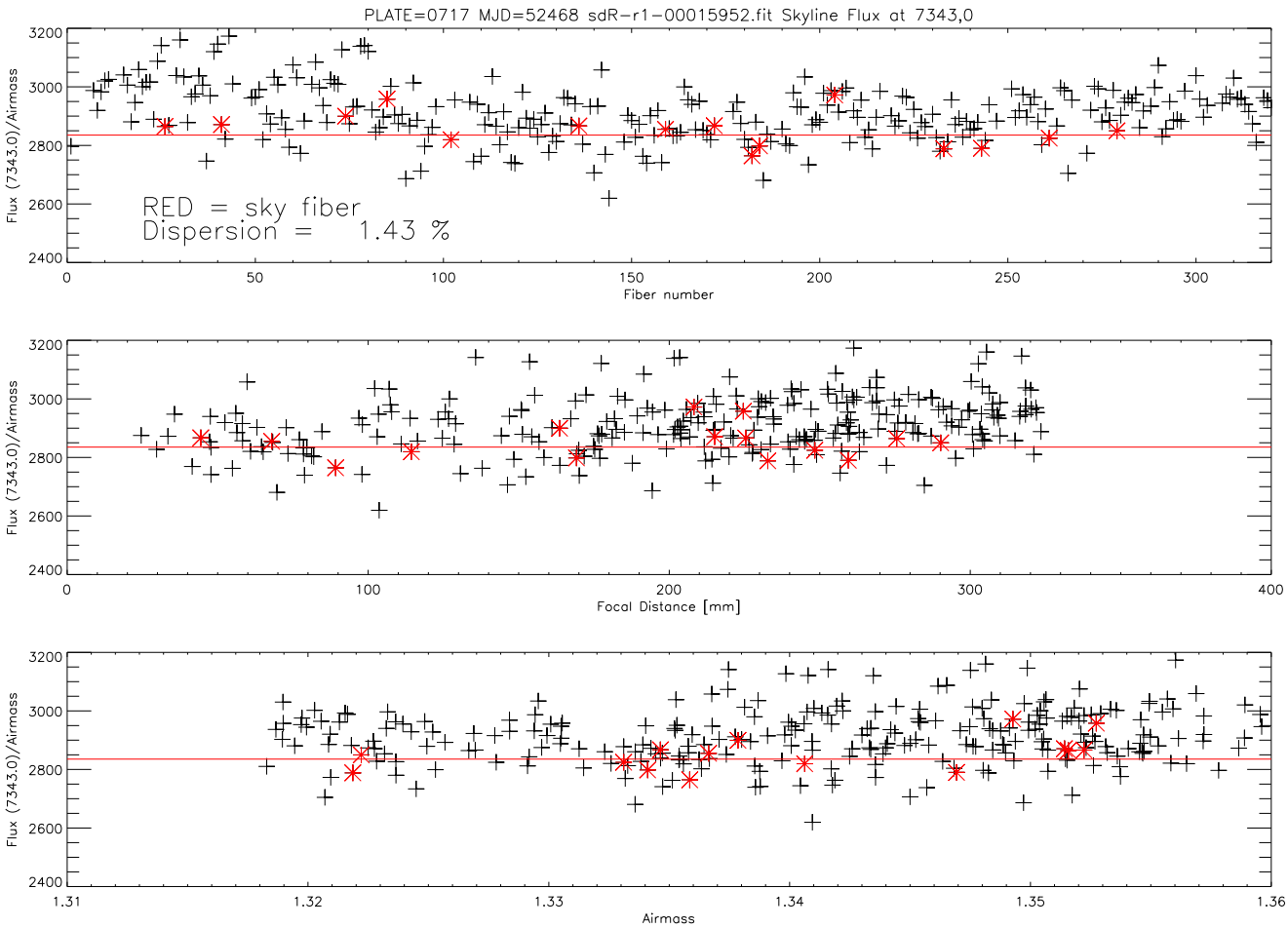

Number of sky fibers = 15
PLATE=0717 MJD=52468 sdR-r1-00015952.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

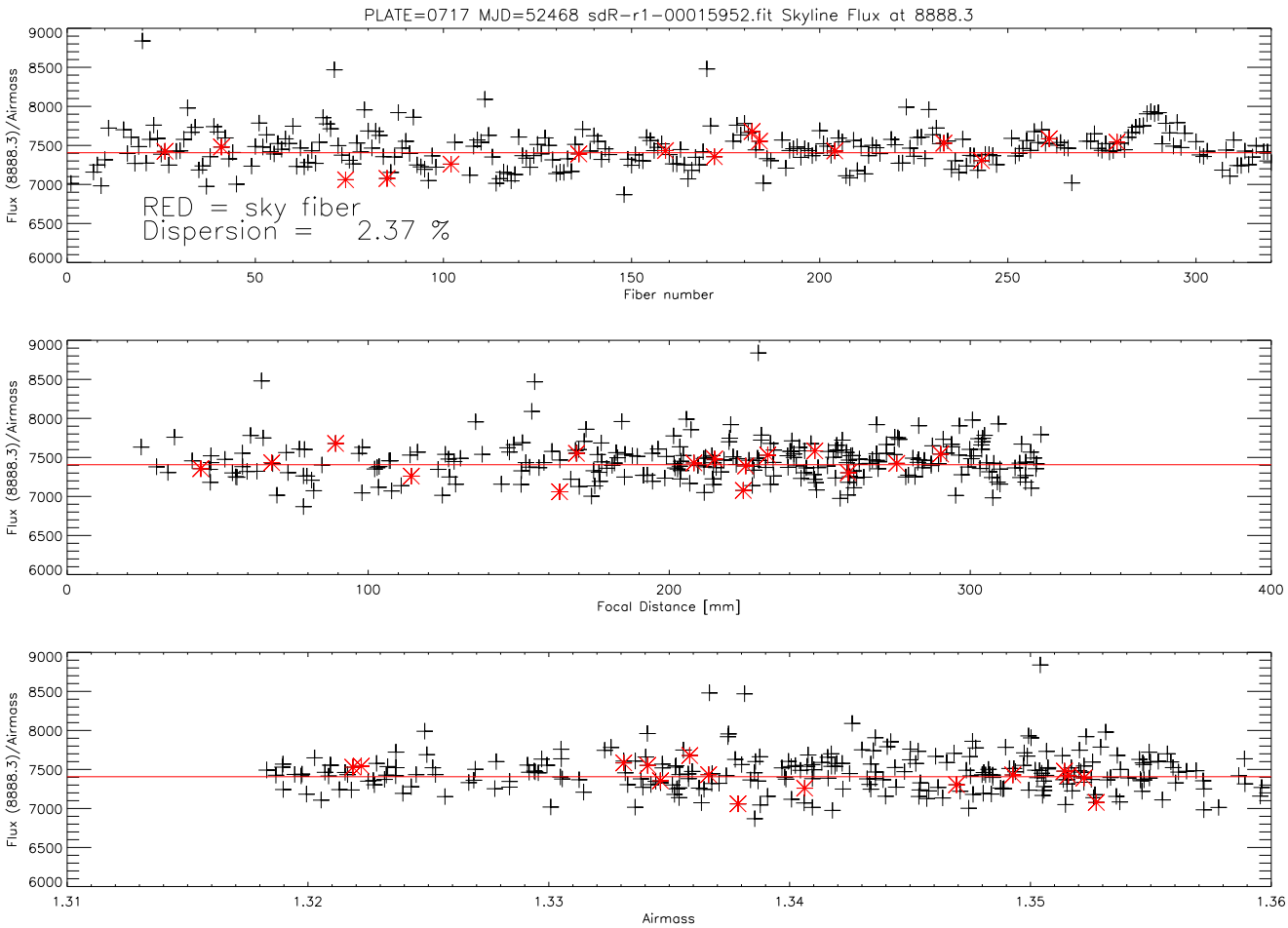

PLATE=0717 MJD=52468 sdR-r1-00015952.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

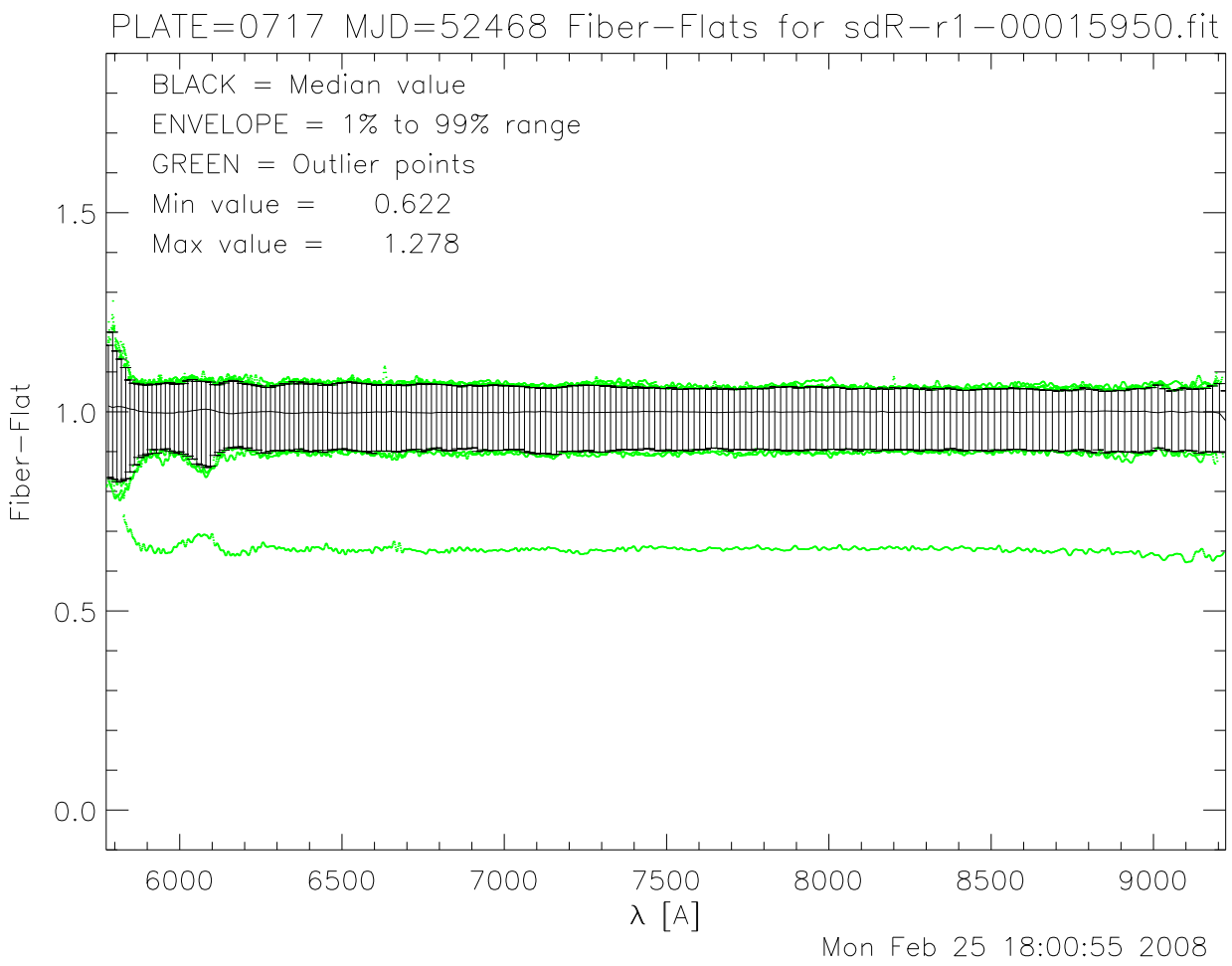

PLATE=0717 MJD=52468 sdR-r1-00015952.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

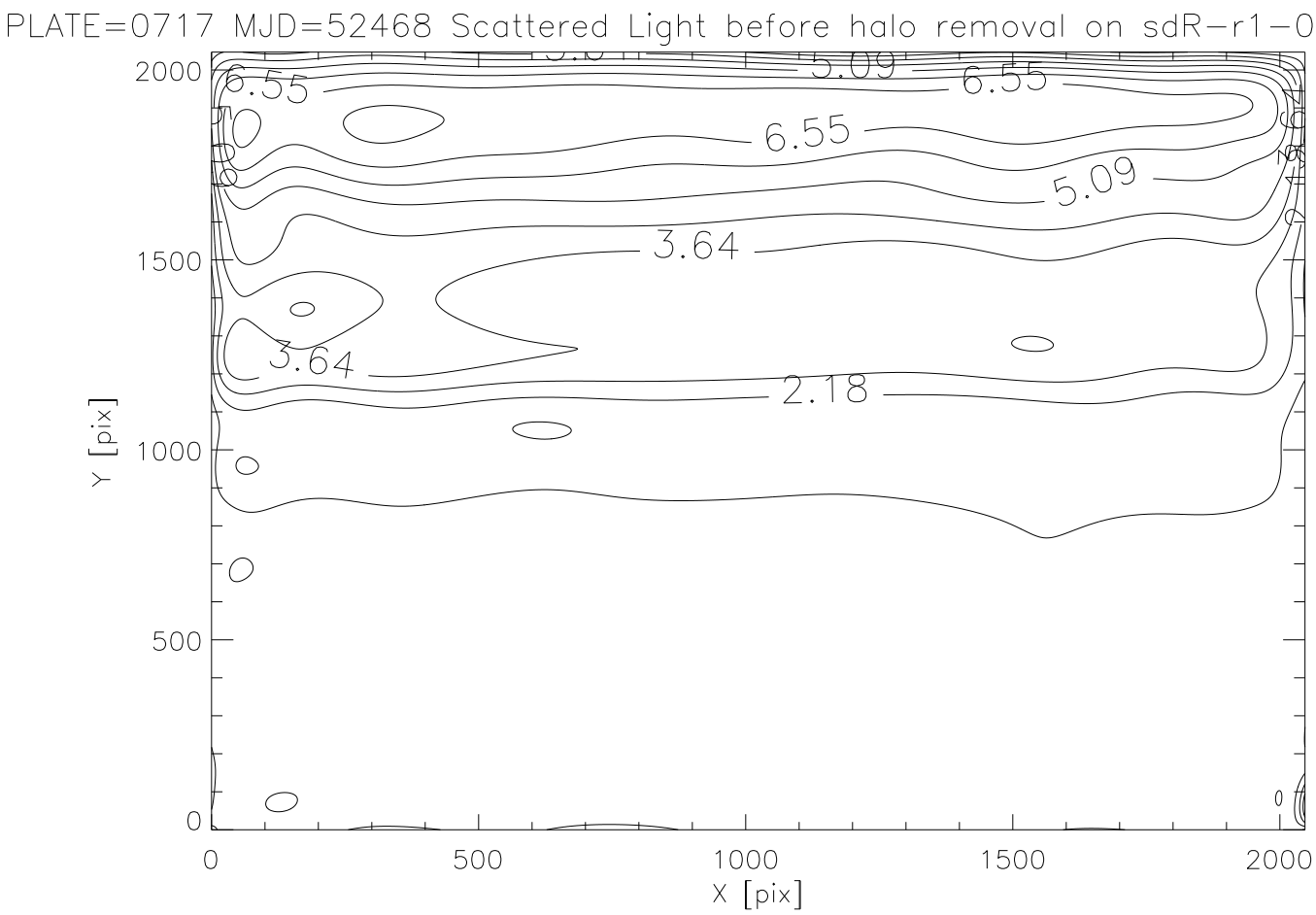

PLATE=0717 MJD=52468 sdR-r1-00015952.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

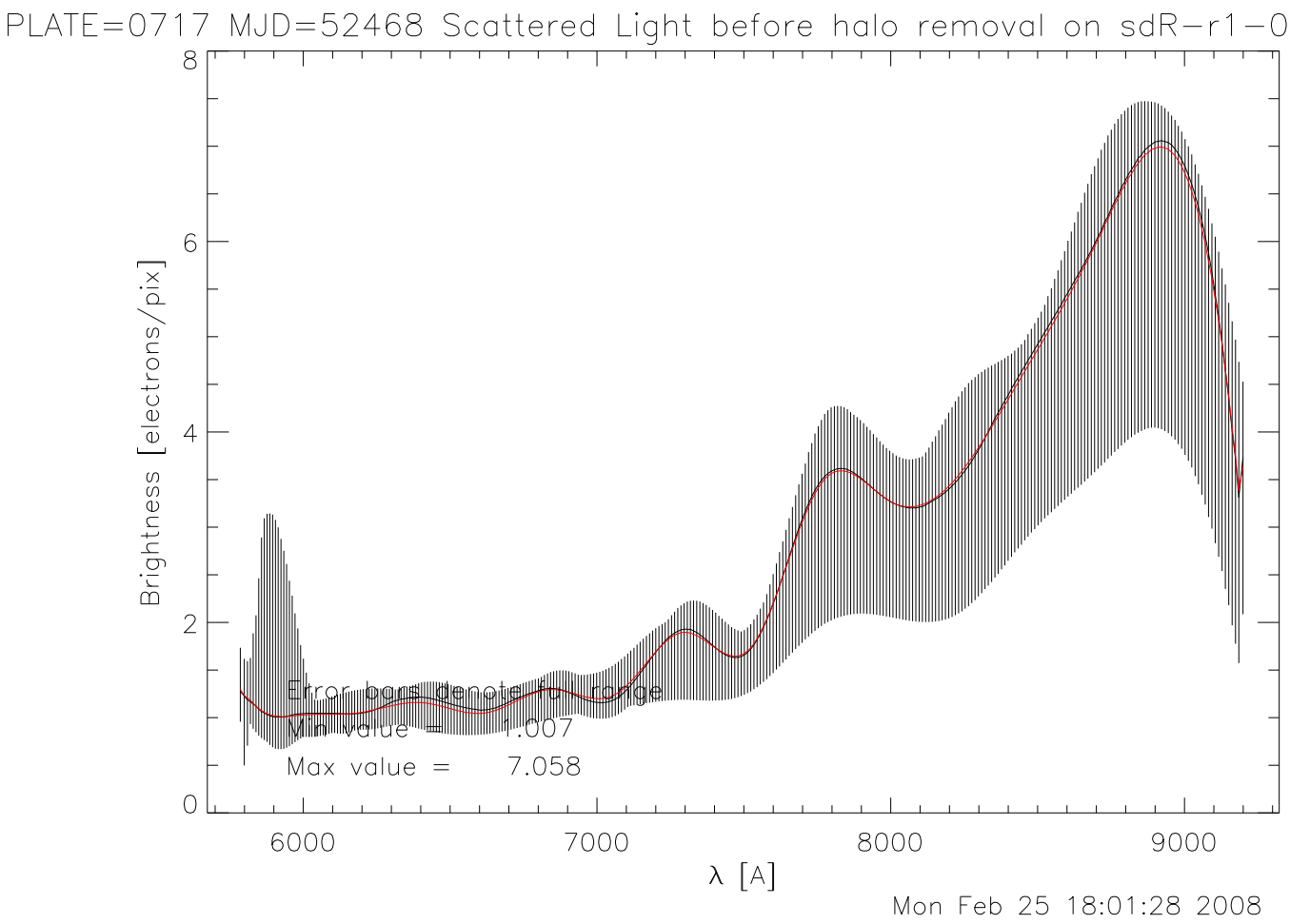

Number of sky fibers = 15
PLATE=0717 MJD=52468 sdR-r1-00015952.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

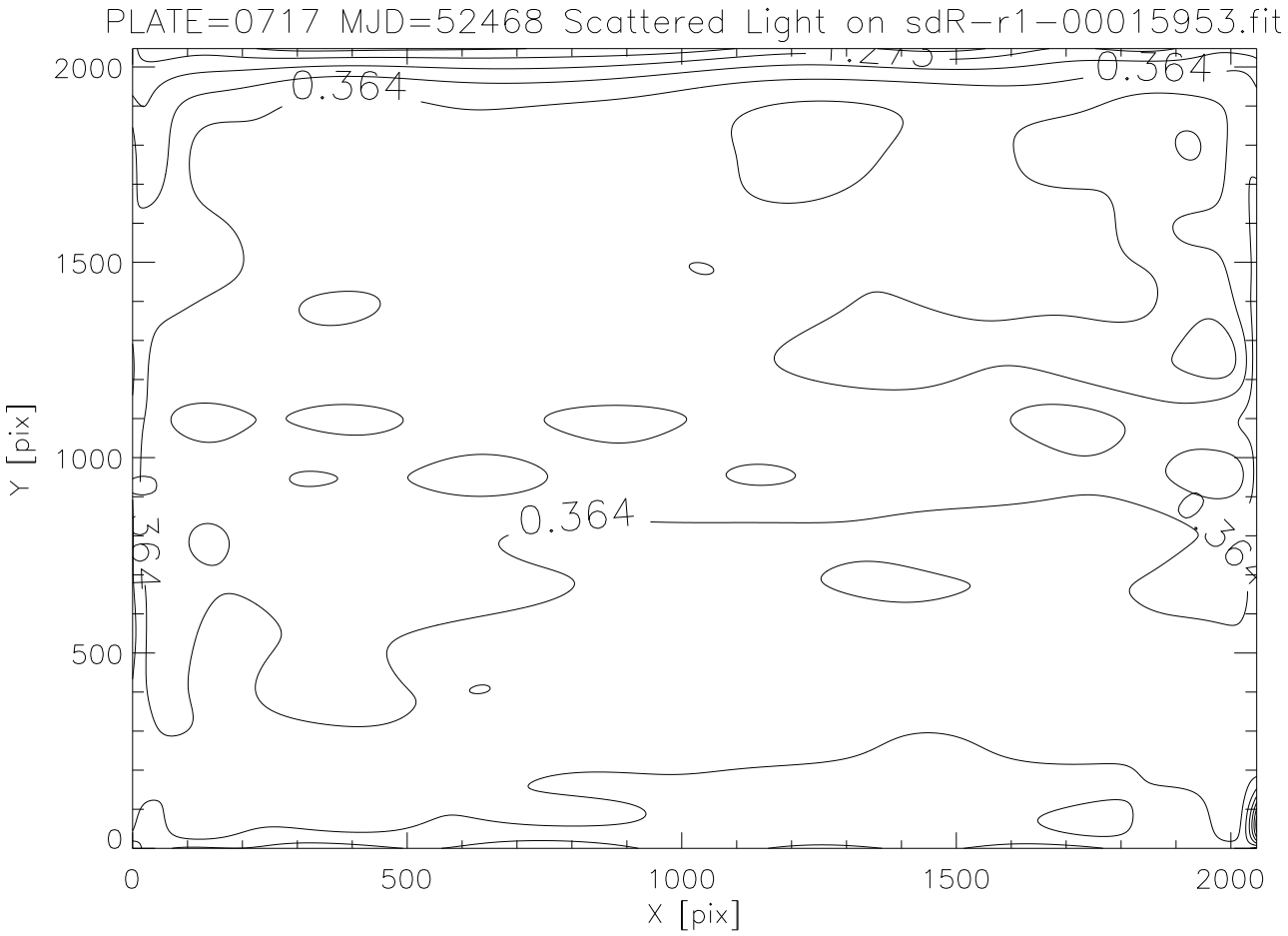

PLATE=0717 MJD=52468 sdR-r1-00015952.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.43 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

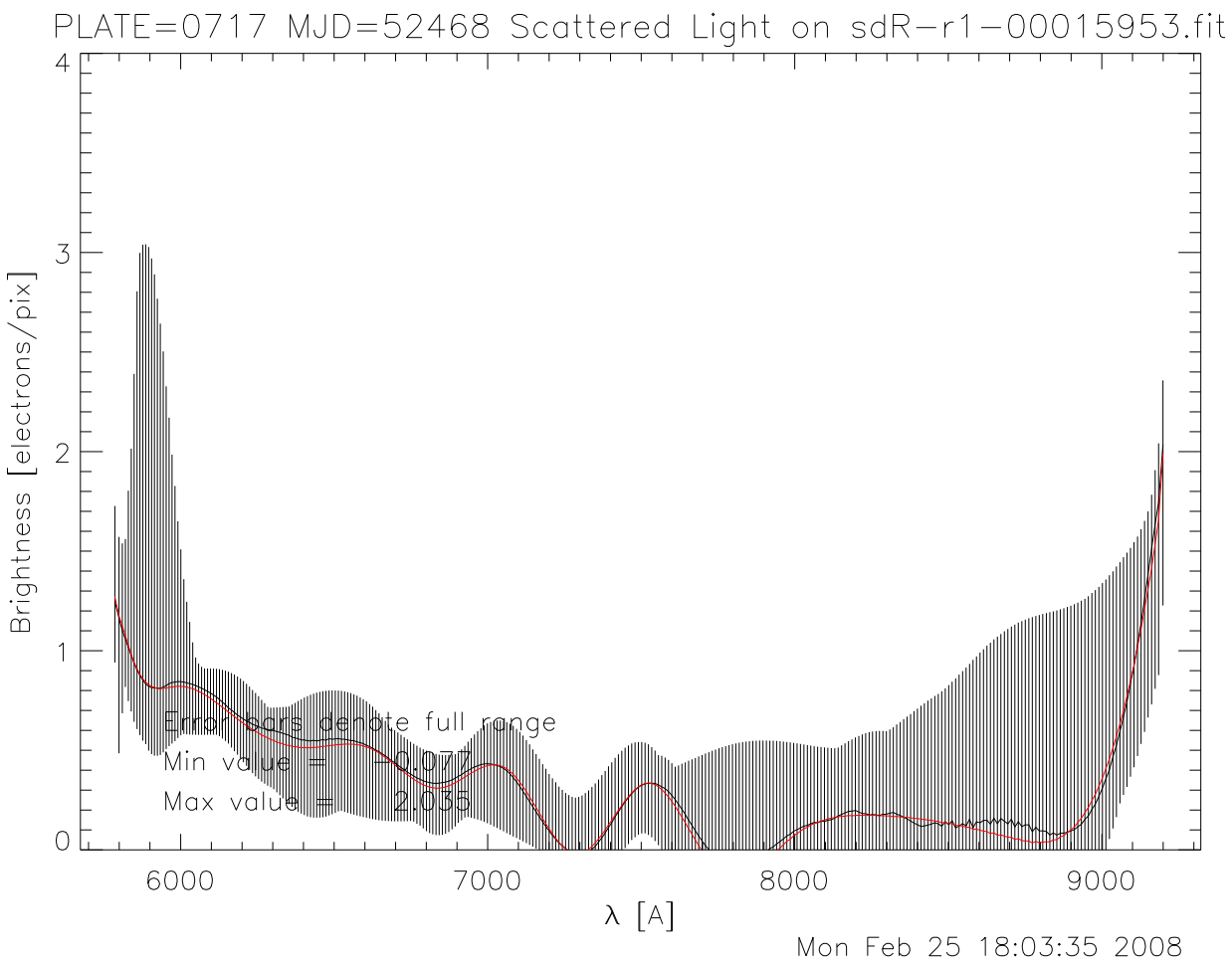

PLATE=0717 MJD=52468 sdR-r1-00015952.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.37 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

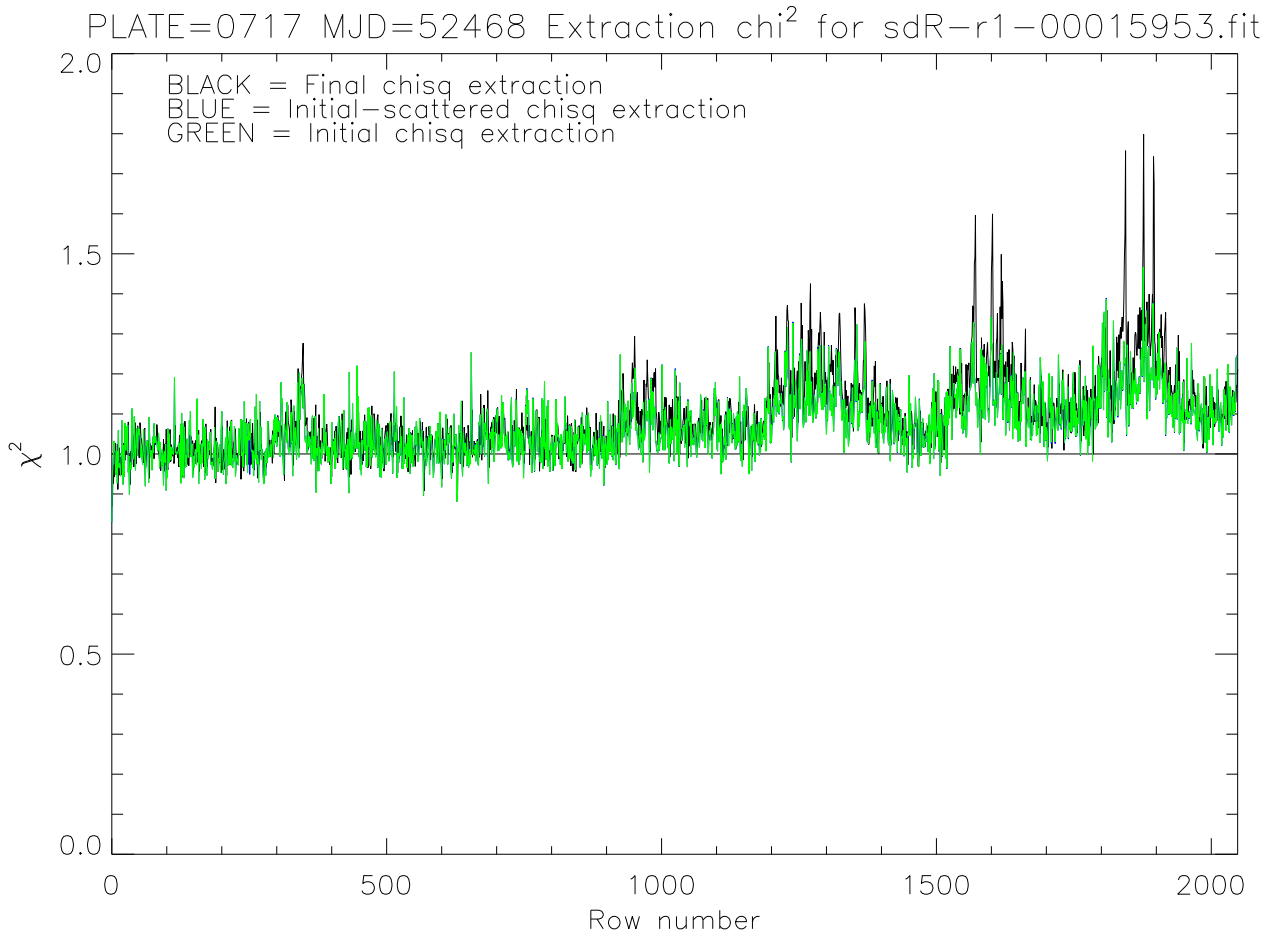

PLATE=0717 MJD=52468 Fiber−Flats for sdR−r1−00015950.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.622
Max value = 1.278
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 25 18:00:55 2008

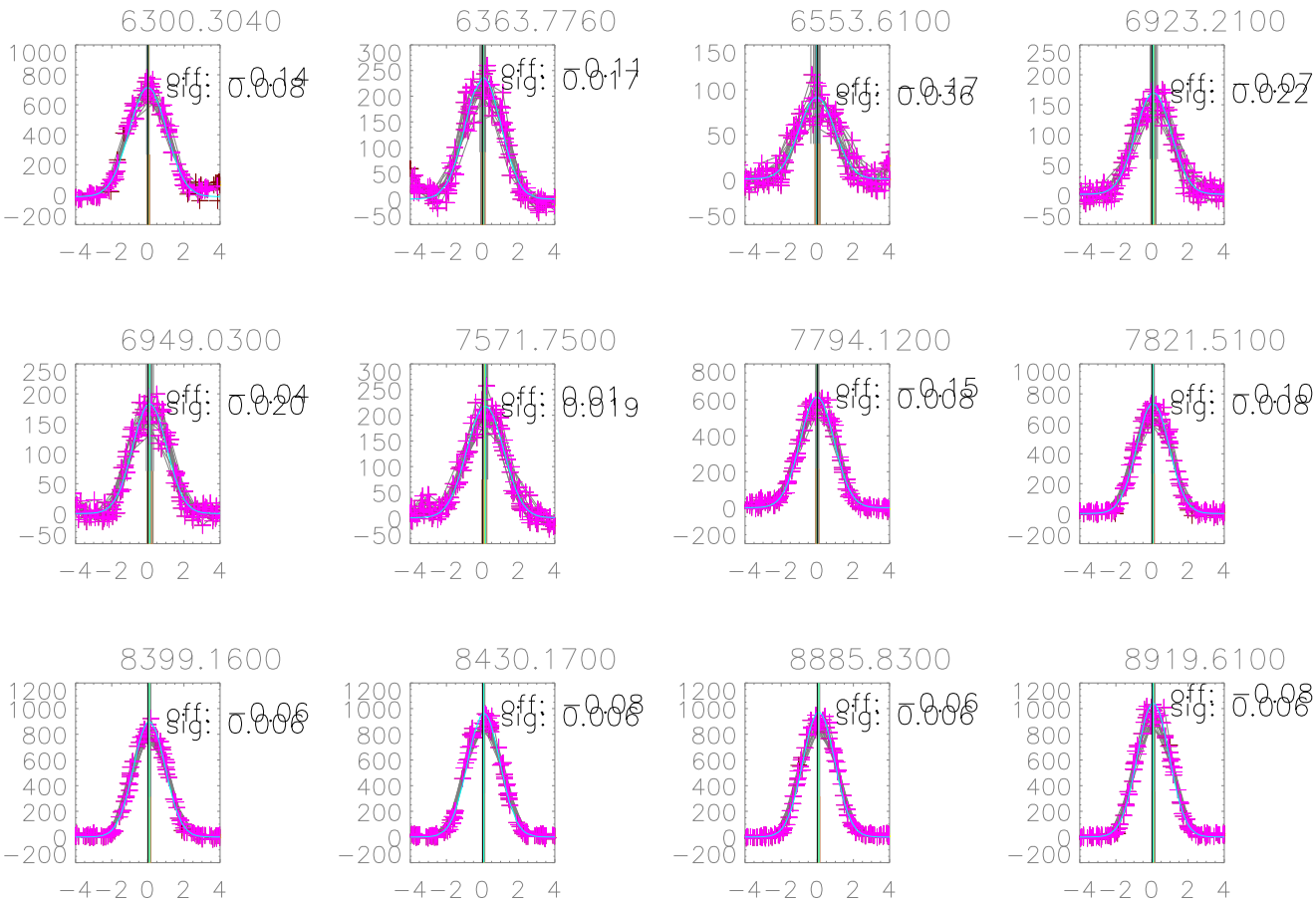

PLATE=0717 MJD=52468 Scattered Light before halo removal on sdR-r1-00015953.fi
6.55
5.09
6.55
6.55
5.09
3.64
3.64
2.18
0
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

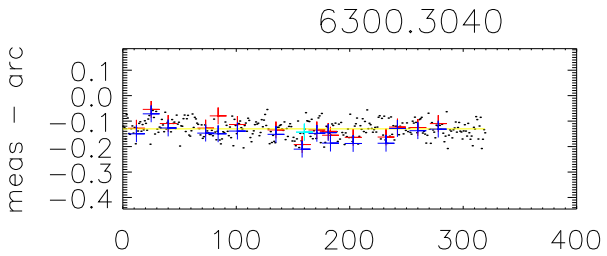

PLATE=0717 MJD=52468 Scattered Light before halo removal on sdR-r1-00015953.fi
Brightness [electrons/pix]
λ [A]
Error bars denote 5% range
Min value = -.007
Max value = 7.058
Mon Feb 25 18:01:28 2008

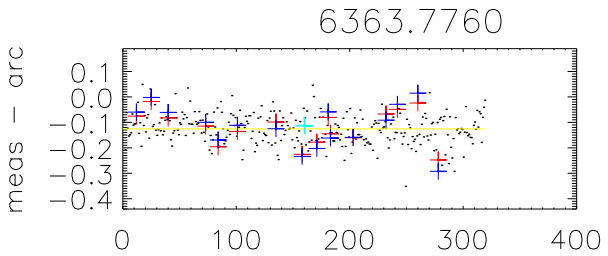

PLATE=0717 MJD=52468 Scattered Light on sdR−r1−00015953.fit
0.364
0.364
0.364
0.364
0.364
2000
1500
1000
500
0
0
500
1000
1500
2000
Y [pix]
X [pix]

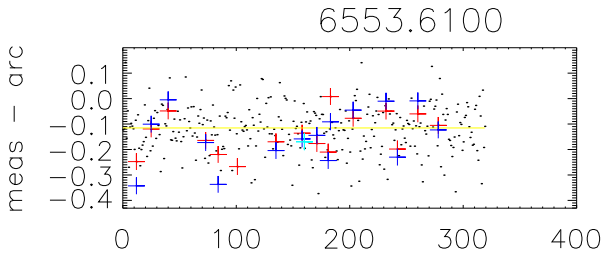

PLATE=0717 MJD=52468 Scattered Light on sdR-r1-00015953.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = -0.077
Max value = 2.035
Mon Feb 25 18:03:35 2008

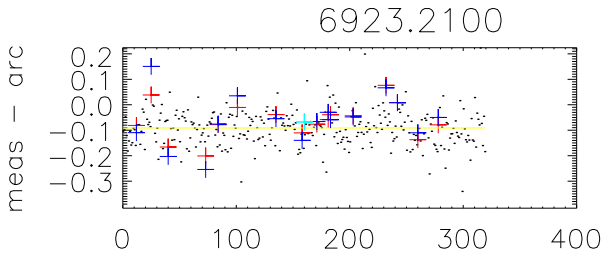

PLATE=0717 MJD=52468 Extraction chi^2 for sdR−r1−00015953.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

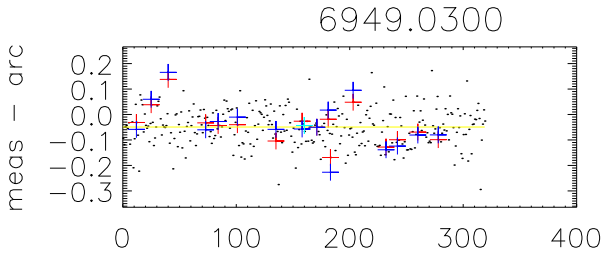

6300.3040
off: -0.14
sig: 0.008
6363.7760
off: -0.11
sig: 0.017
6553.6100
off: -0.17
sig: 0.036
6923.2100
off: -0.07
sig: 0.022
6949.0300
off: -0.04
sig: 0.020
7571.7500
off: 0.01
sig: 0.019
7794.1200
off: -0.15
sig: 0.008
7821.5100
off: -0.10
sig: 0.008
8399.1600
off: -0.06
sig: 0.006
8430.1700
off: -0.08
sig: 0.006
8885.8300
off: -0.06
sig: 0.006
8919.6100
off: -0.08
sig: 0.006

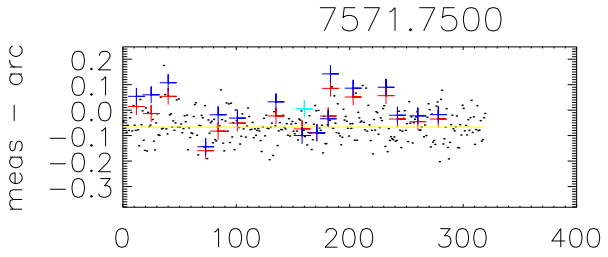

6300.3040
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

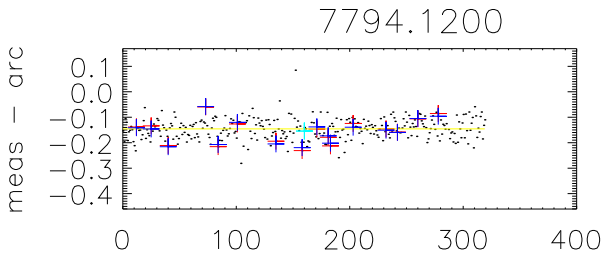

6363.7760
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

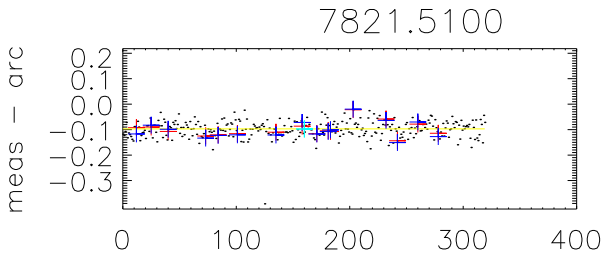

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

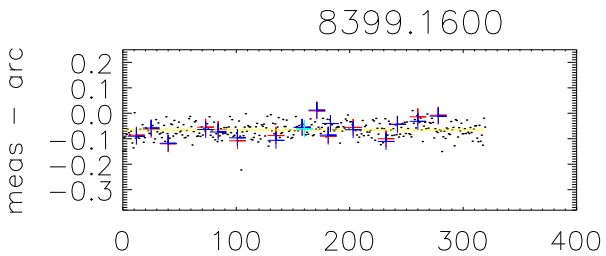

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

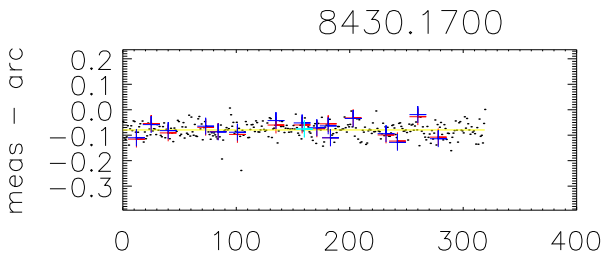

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

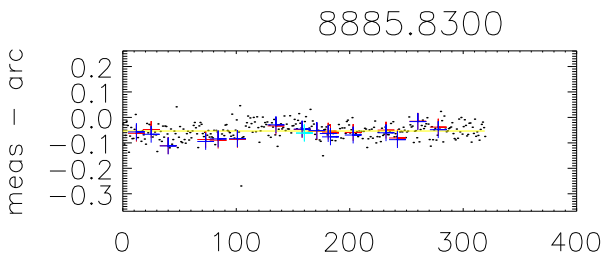

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

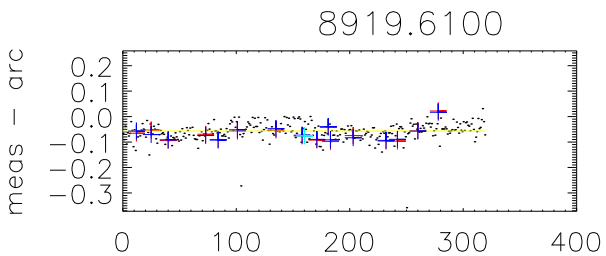

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

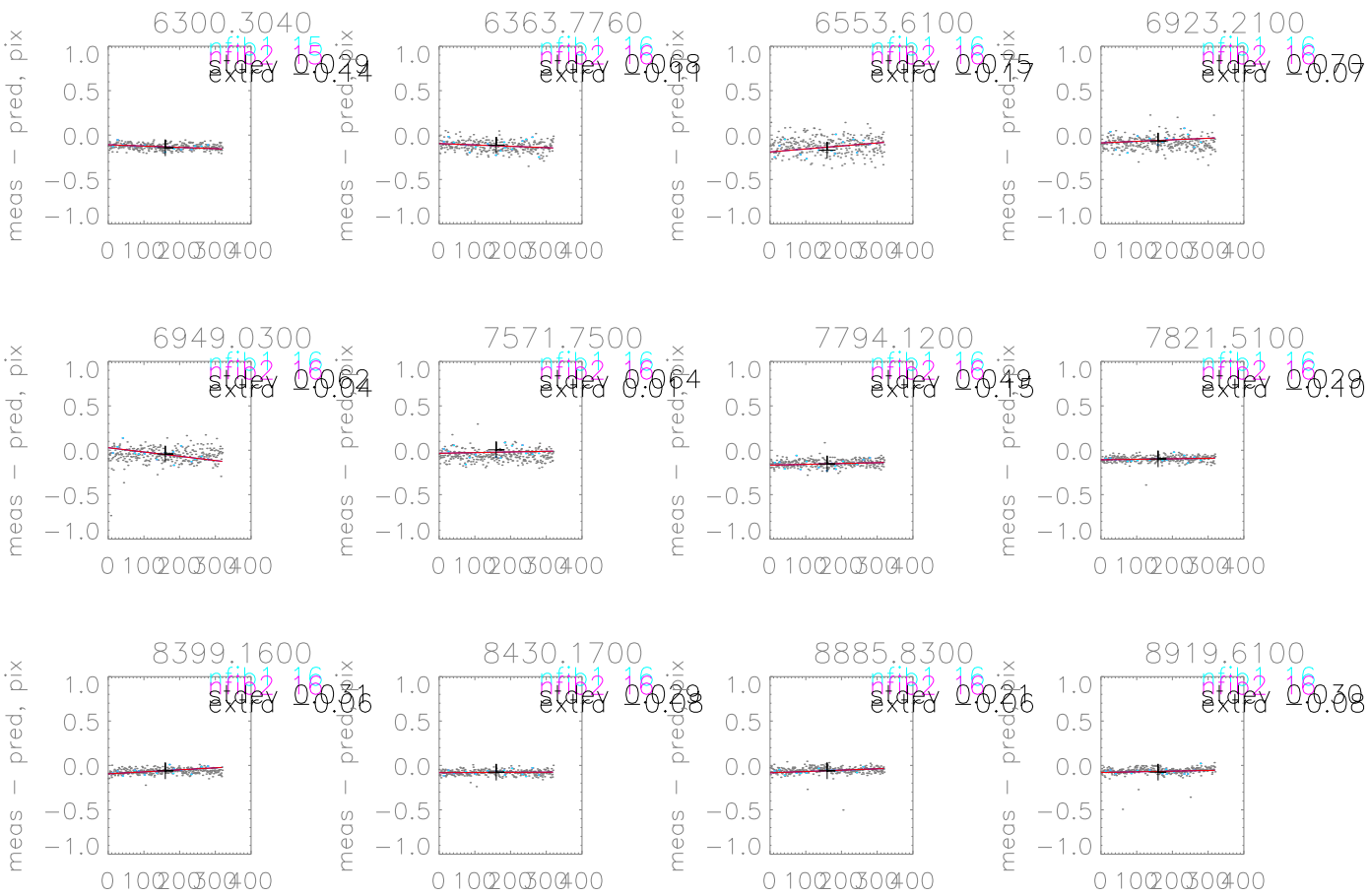

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

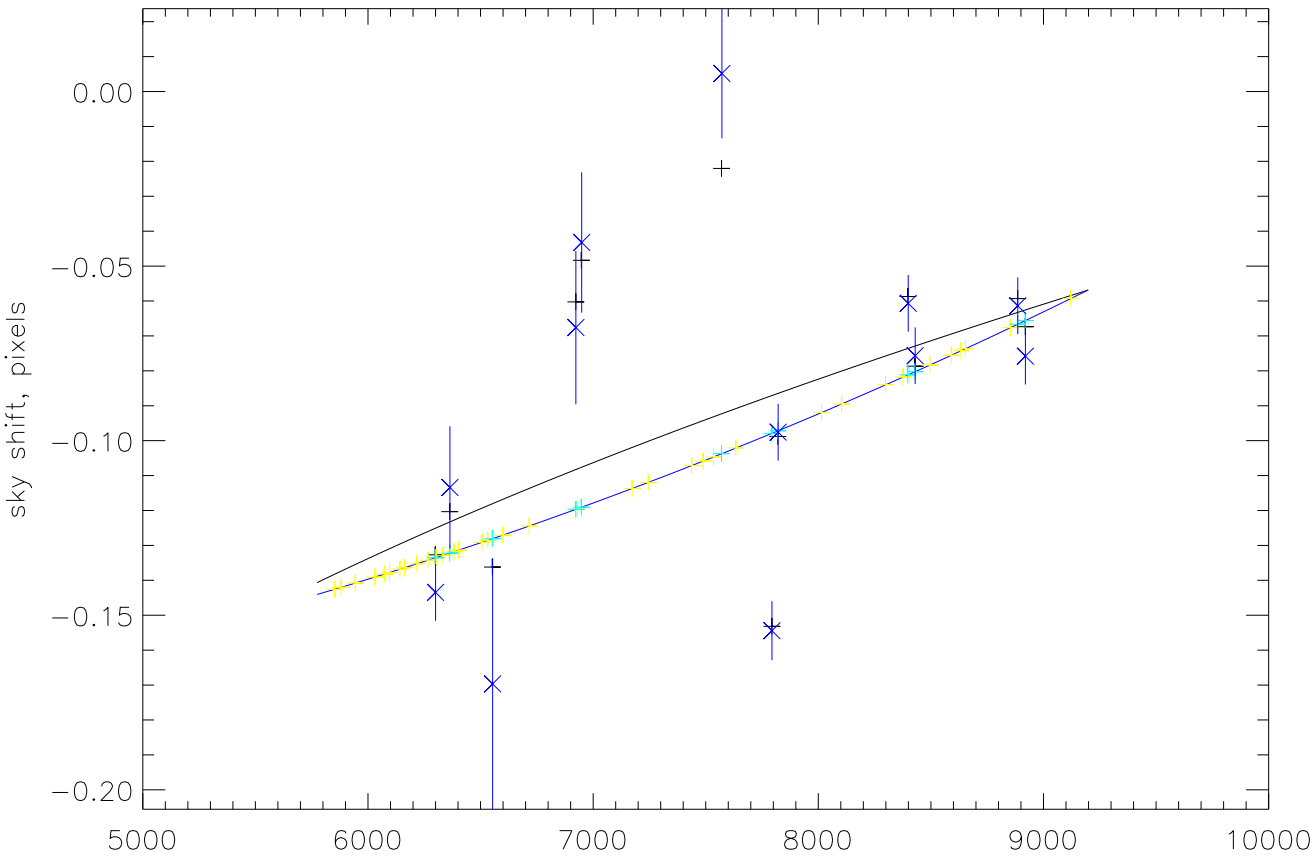

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

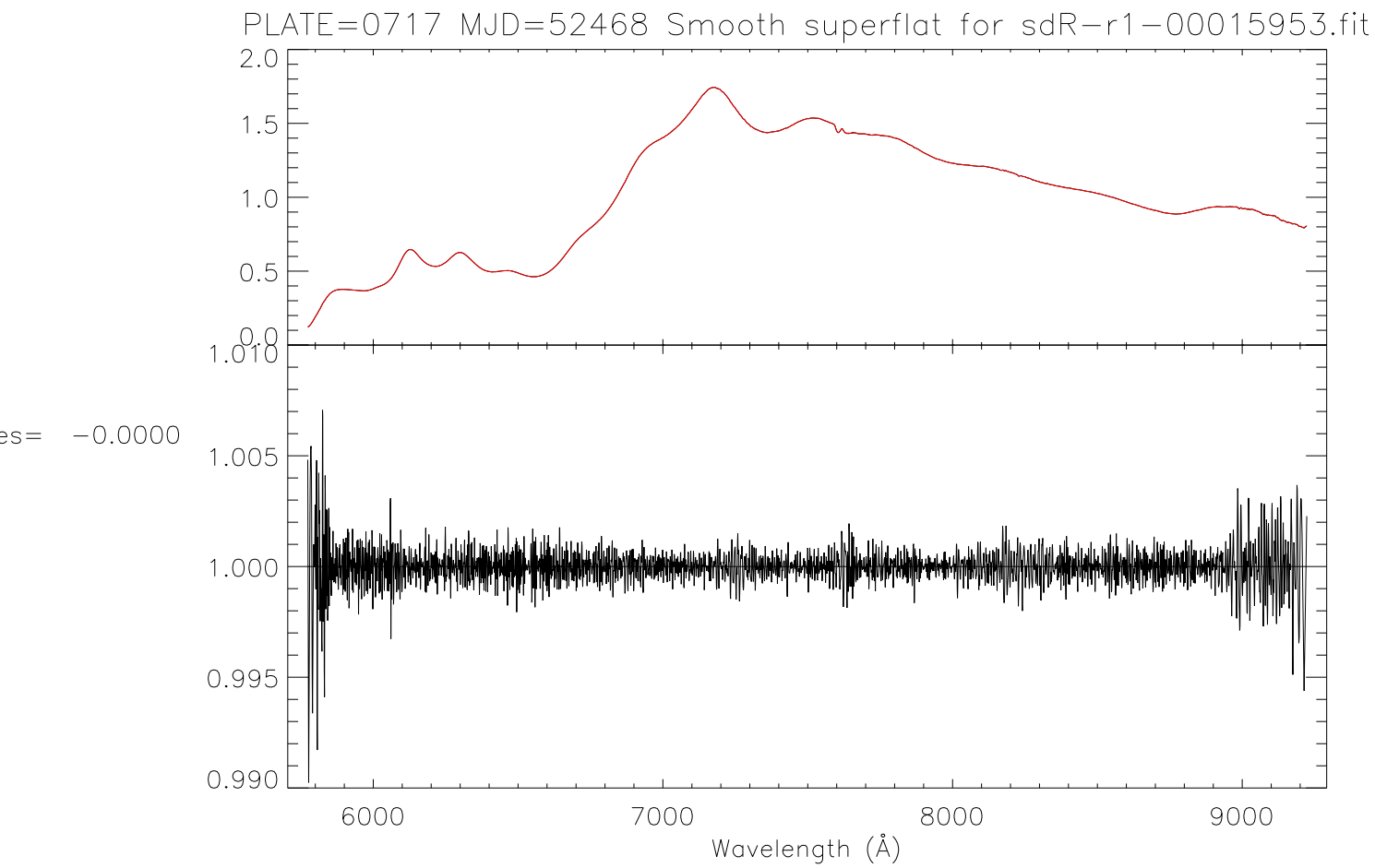

8430.1700
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

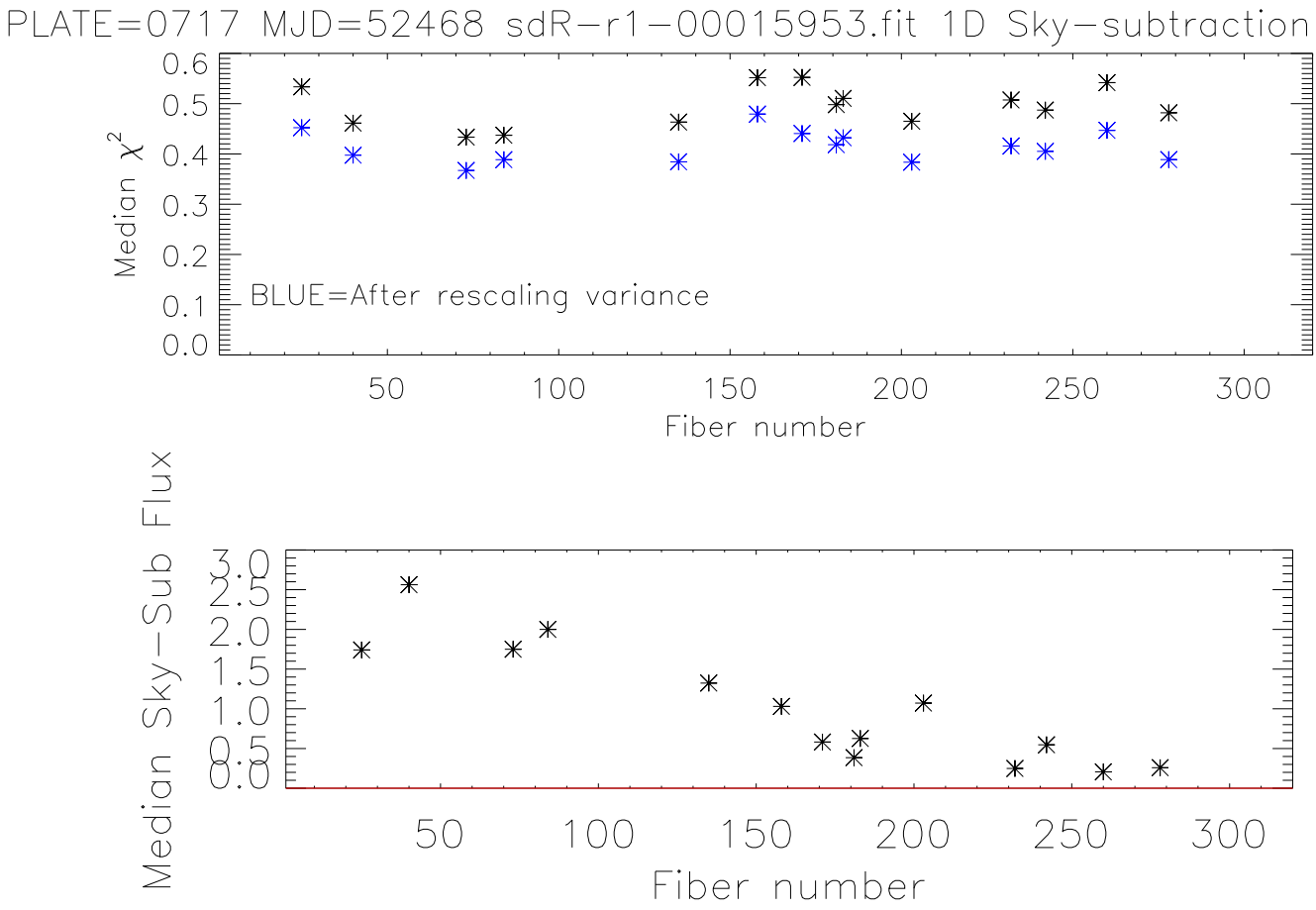

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

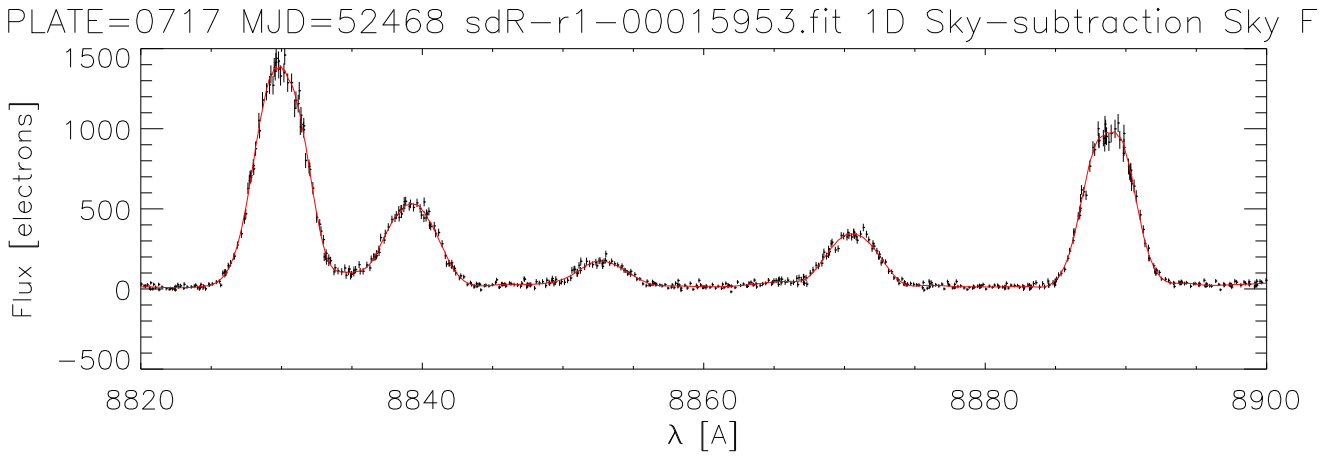

6300.3040
mfib1 15
mfib2 16
stdev 0.029
extrd 0.044
6363.7760
mfib1 16
mfib2 16
stdev 0.068
extrd 0.041
6553.6100
mfib1 16
mfib2 16
stdev 0.175
extrd 0.157
6923.2100
mfib1 16
mfib2 16
stdev 0.070
extrd 0.067
6949.0300
mfib1 16
mfib2 16
stdev 0.062
extrd 0.044
7571.7500
mfib1 16
mfib2 16
stdev 0.064
extrd 0.061
7794.1200
mfib1 16
mfib2 16
stdev 0.049
extrd 0.045
7821.5100
mfib1 16
mfib2 16
stdev 0.029
extrd 0.040
8399.1600
mfib1 16
mfib2 16
stdev 0.031
extrd 0.046
8430.1700
mfib1 16
mfib2 16
stdev 0.029
extrd 0.048
8885.8300
mfib1 16
mfib2 16
stdev 0.021
extrd 0.046
8919.6100
mfib1 16
mfib2 16
stdev 0.030
extrd 0.048
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

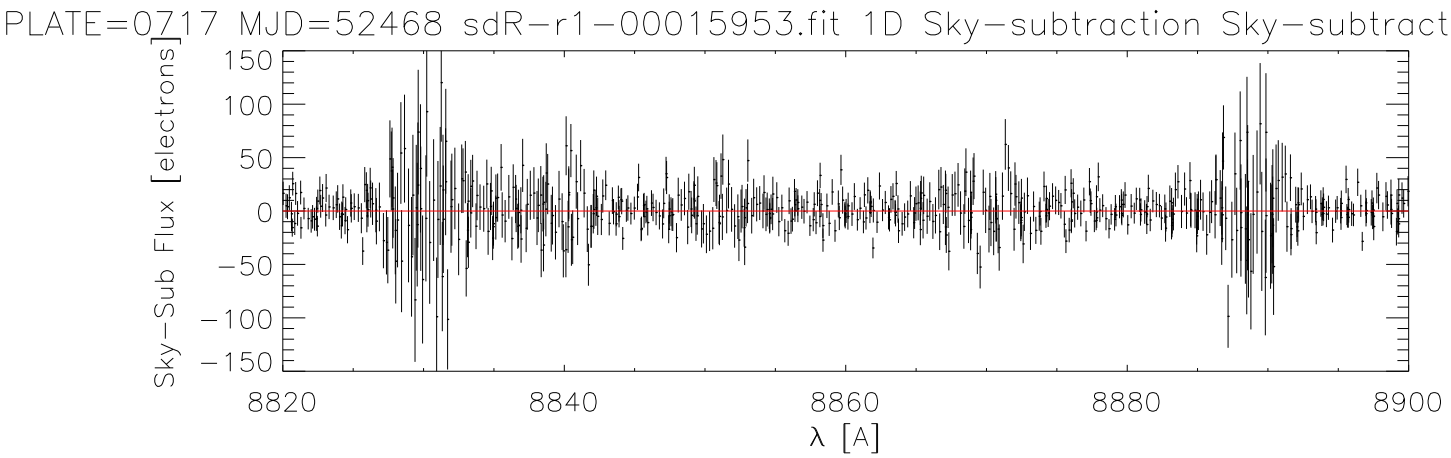

0.00
−0.05
−0.10
−0.15
−0.20
sky shift, pixels
5000
6000
7000
8000
9000
10000

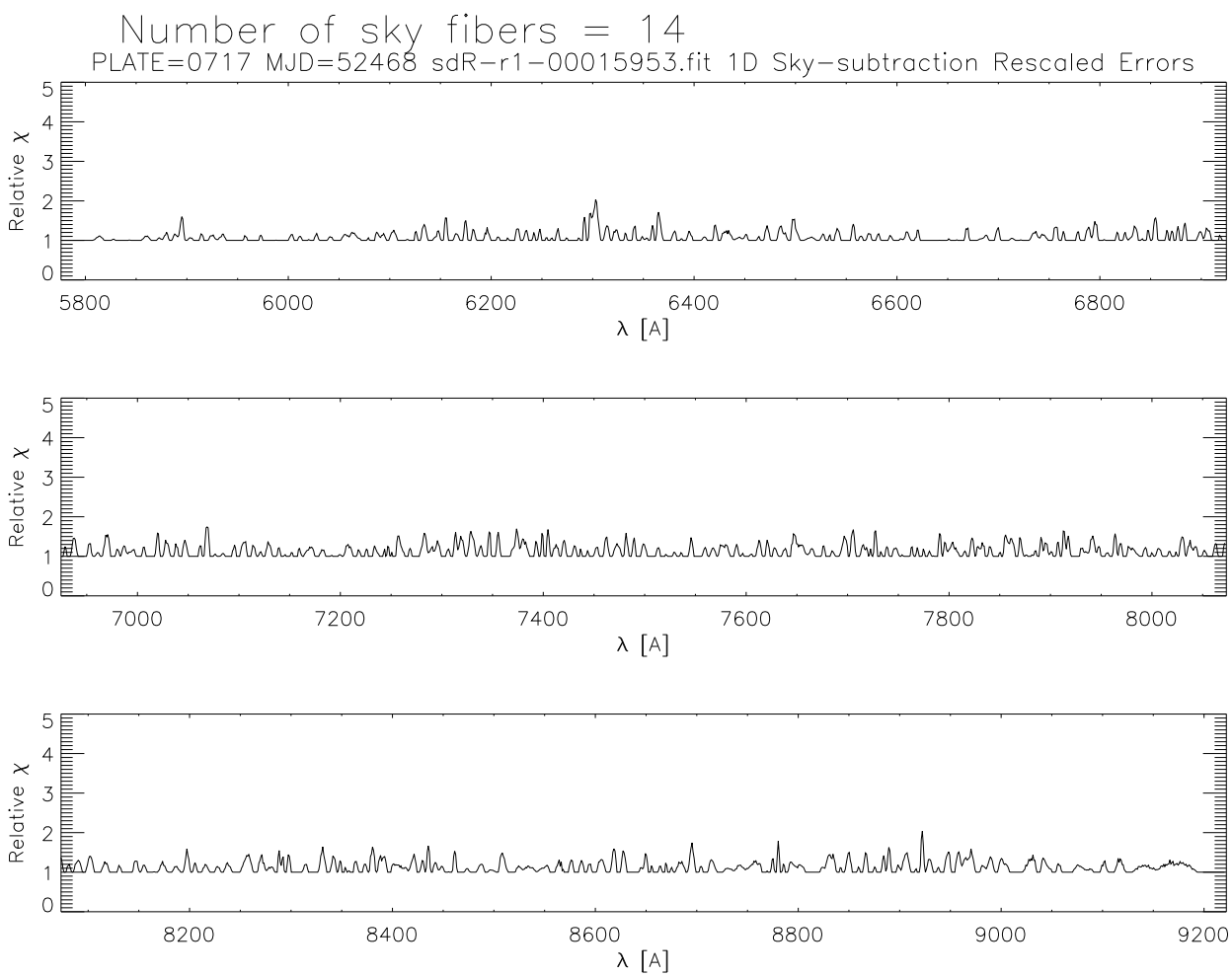

PLATE=0717 MJD=52468 Smooth superflat for sdR-r1-00015953.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

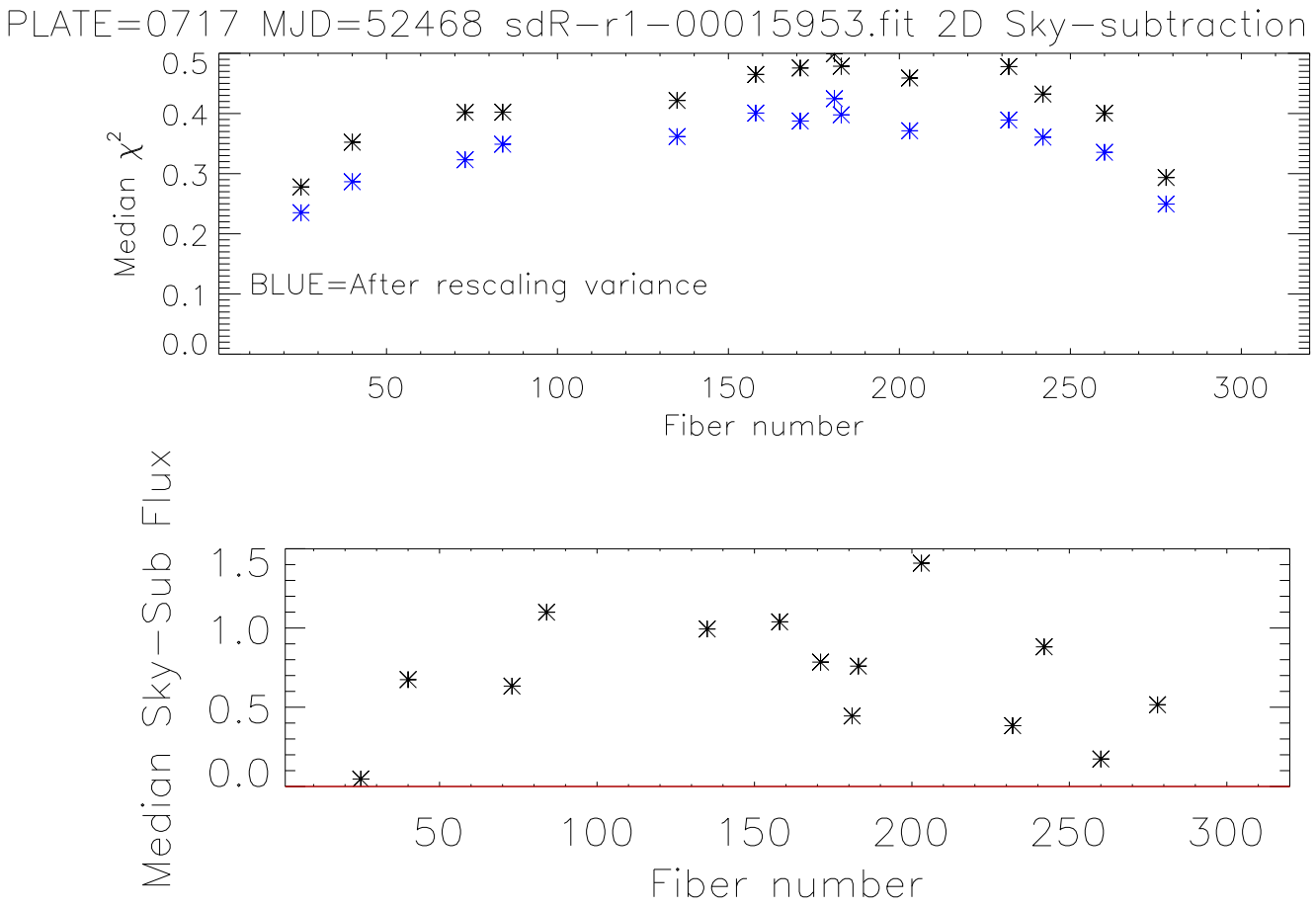
es= −0.0000

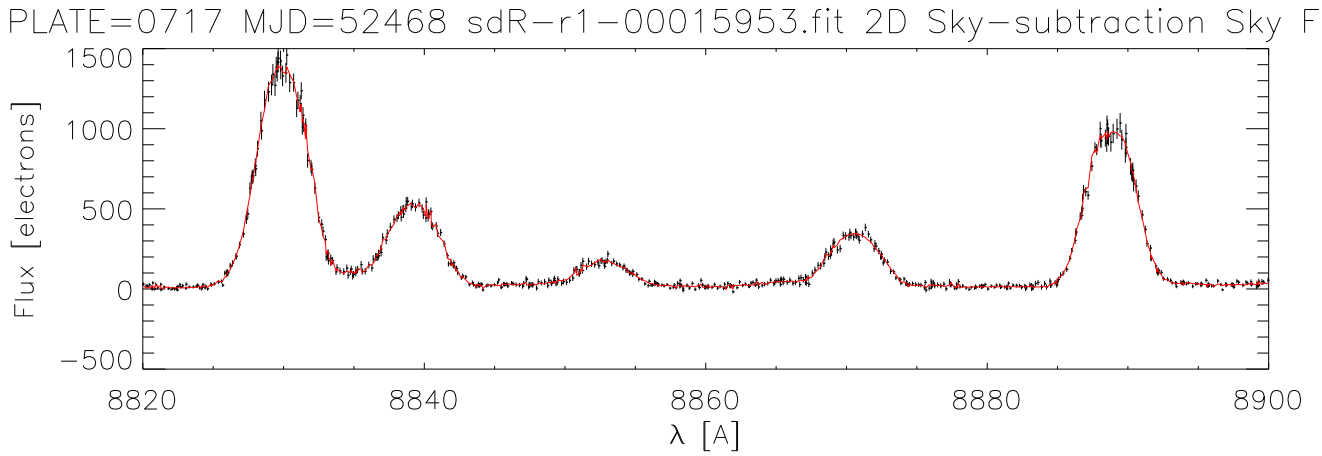

PLATE=0717 MJD=52468 sdR-r1-00015953.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

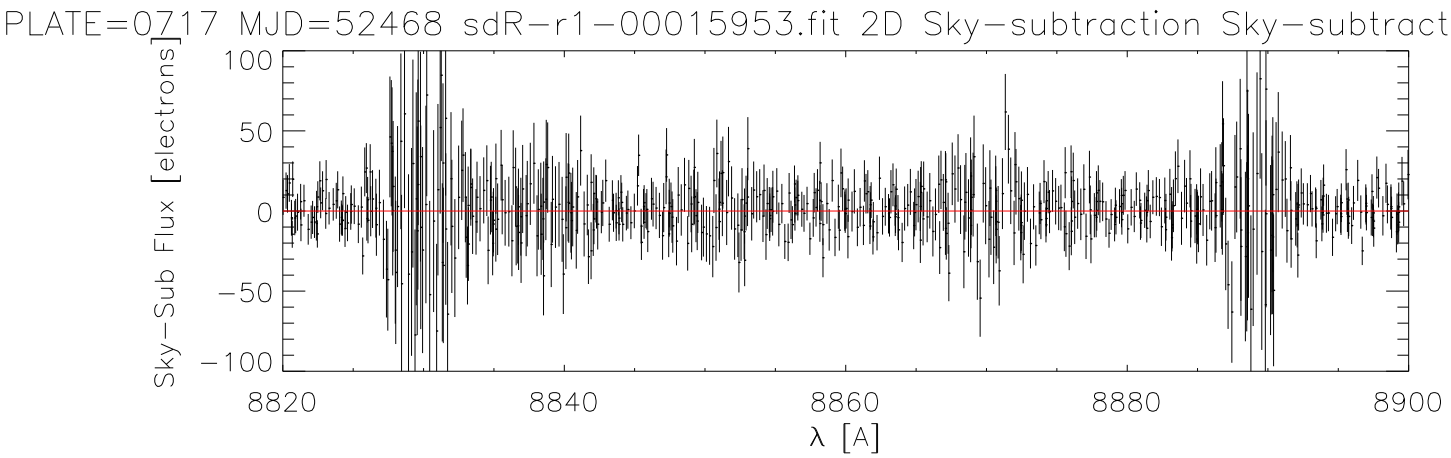

PLATE=0717 MJD=52468 sdR-r1-00015953.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

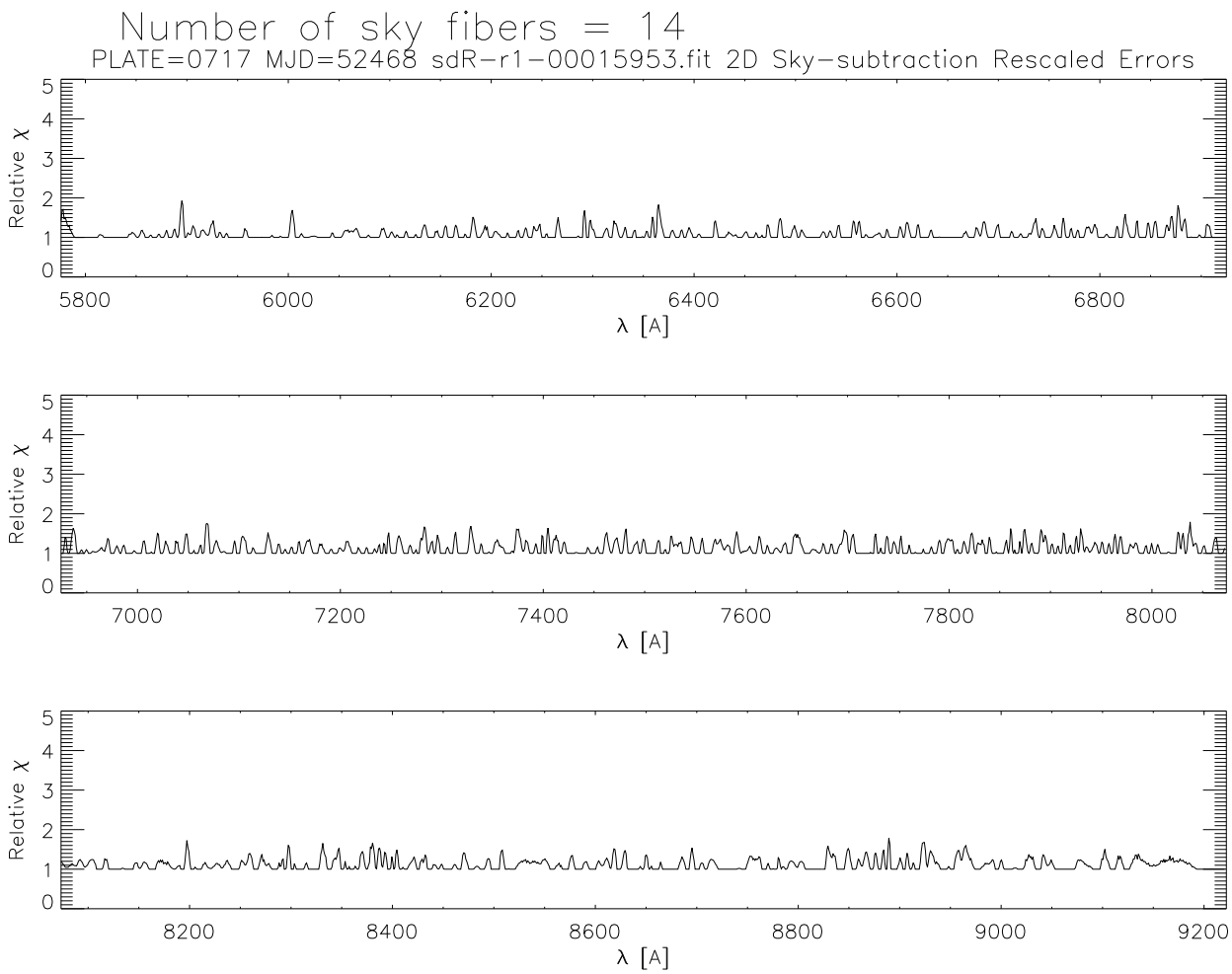

PLATE=0717 MJD=52468 sdR-r1-00015953.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
8820
8840
8860
8880
8900
λ [A]

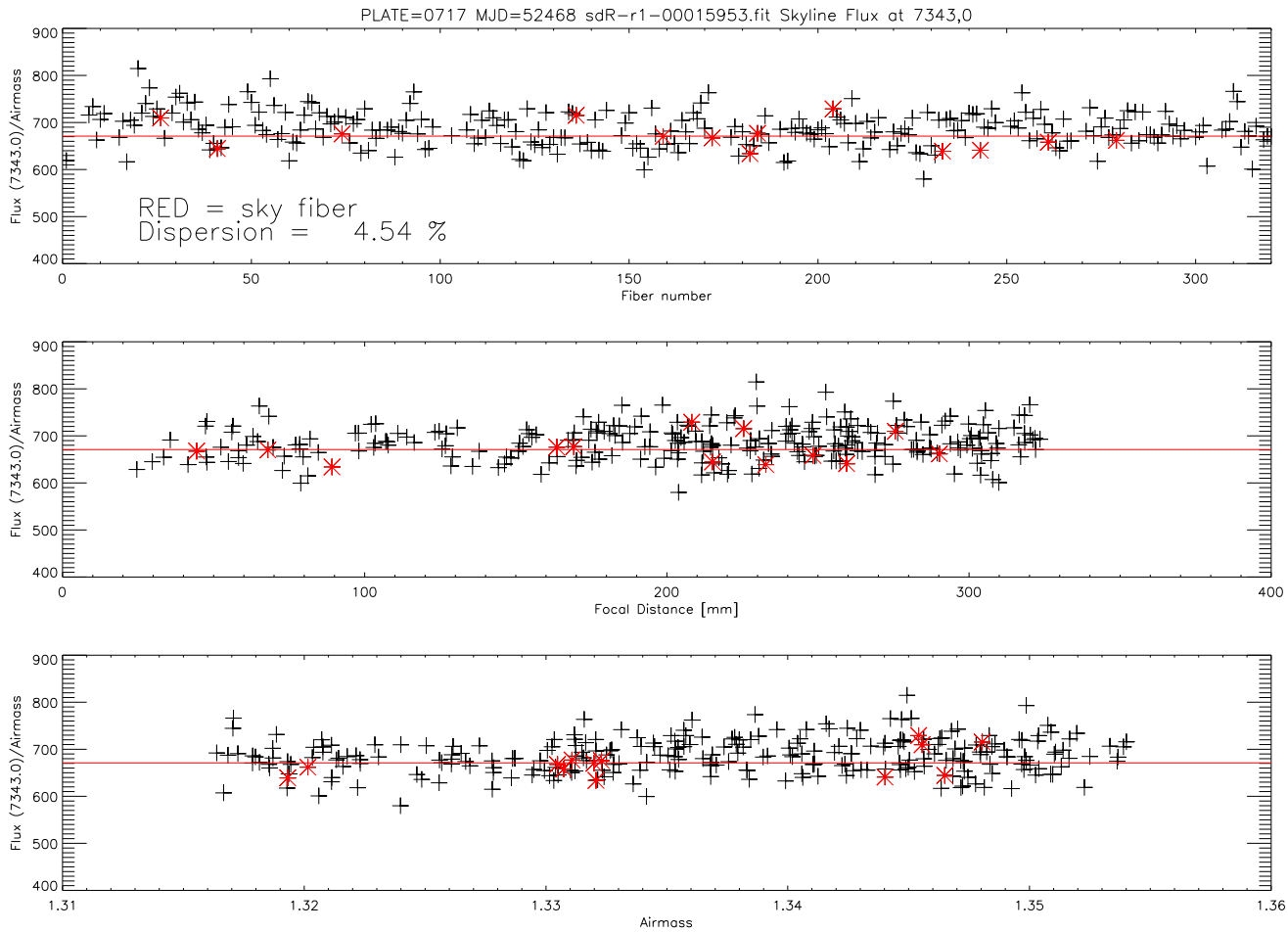

Number of sky fibers = 14
PLATE=0717 MJD=52468 sdR-r1-00015953.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

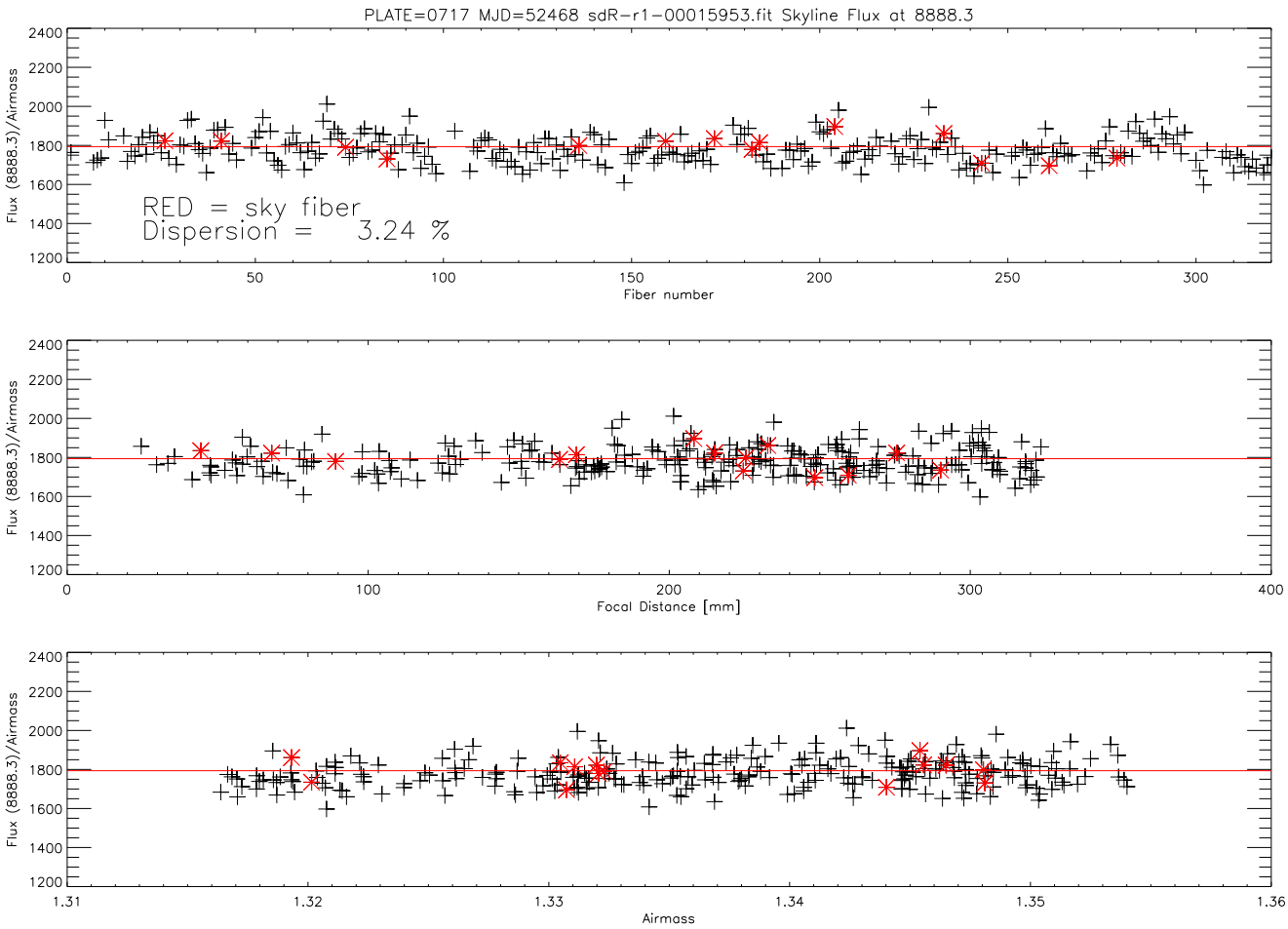

PLATE=0717 MJD=52468 sdR-r1-00015953.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

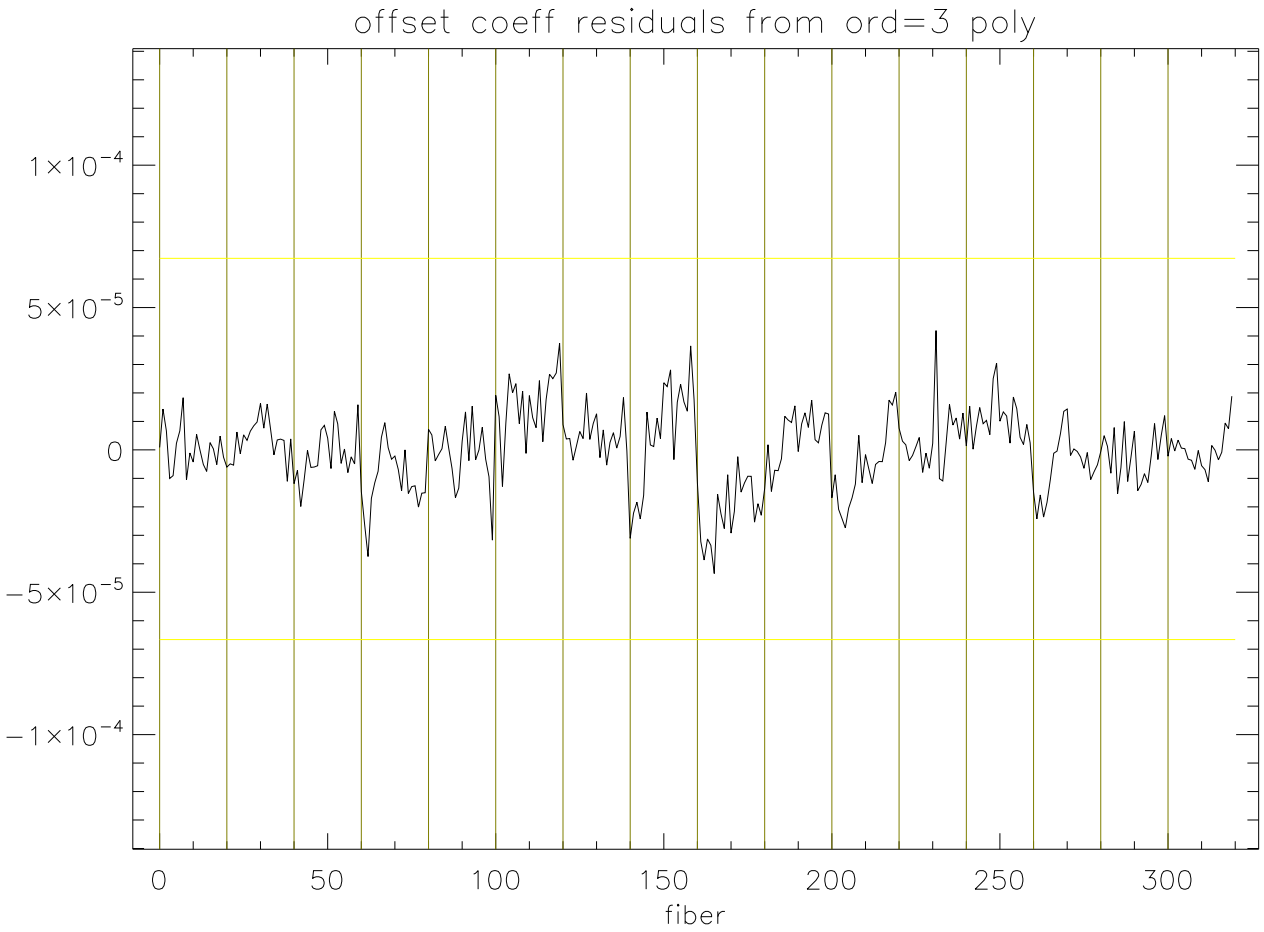

PLATE=0717 MJD=52468 sdR-r1-00015953.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

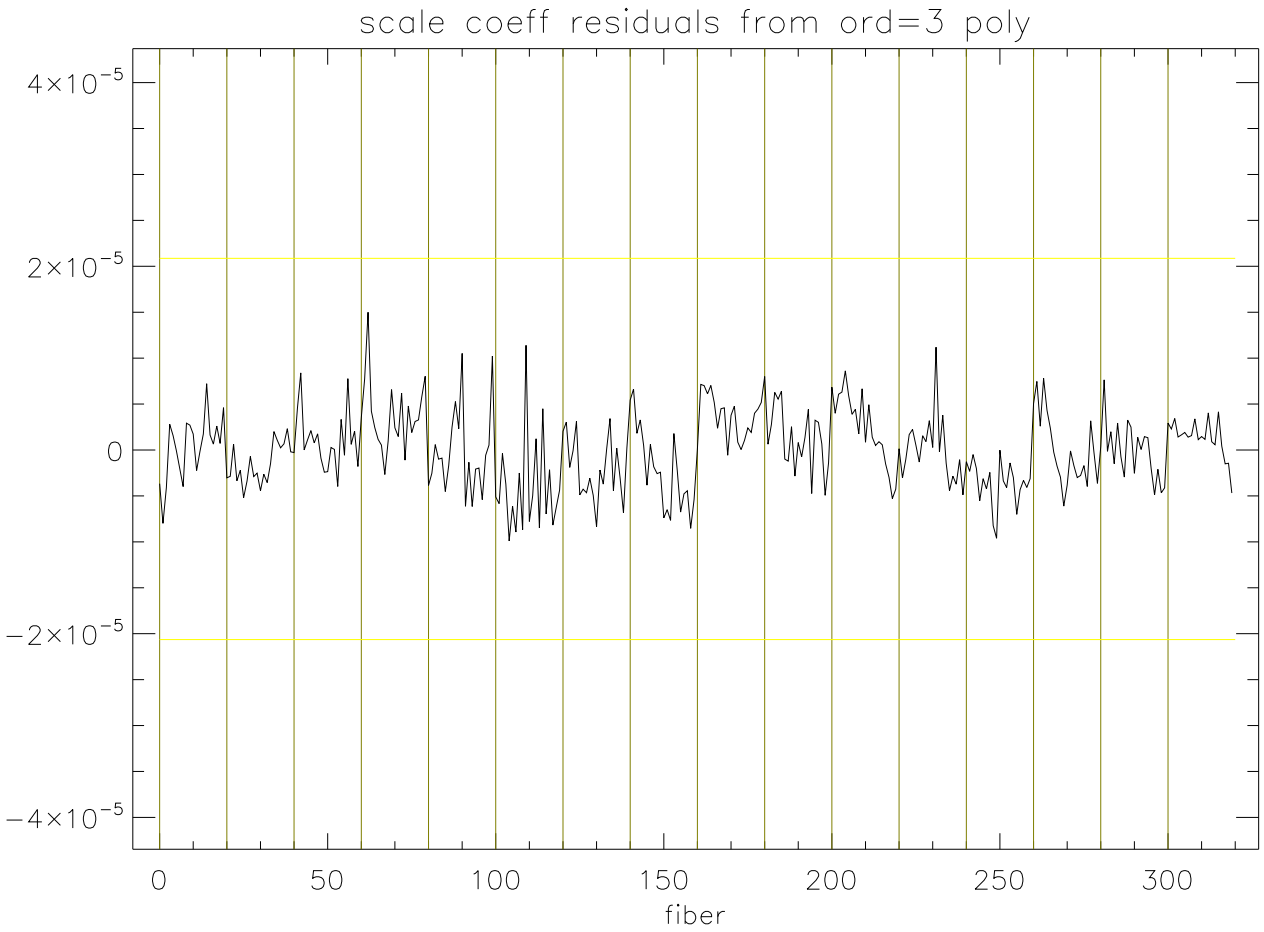

PLATE=0717 MJD=52468 sdR-r1-00015953.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
8820
8840
8860
8880
8900
λ [A]

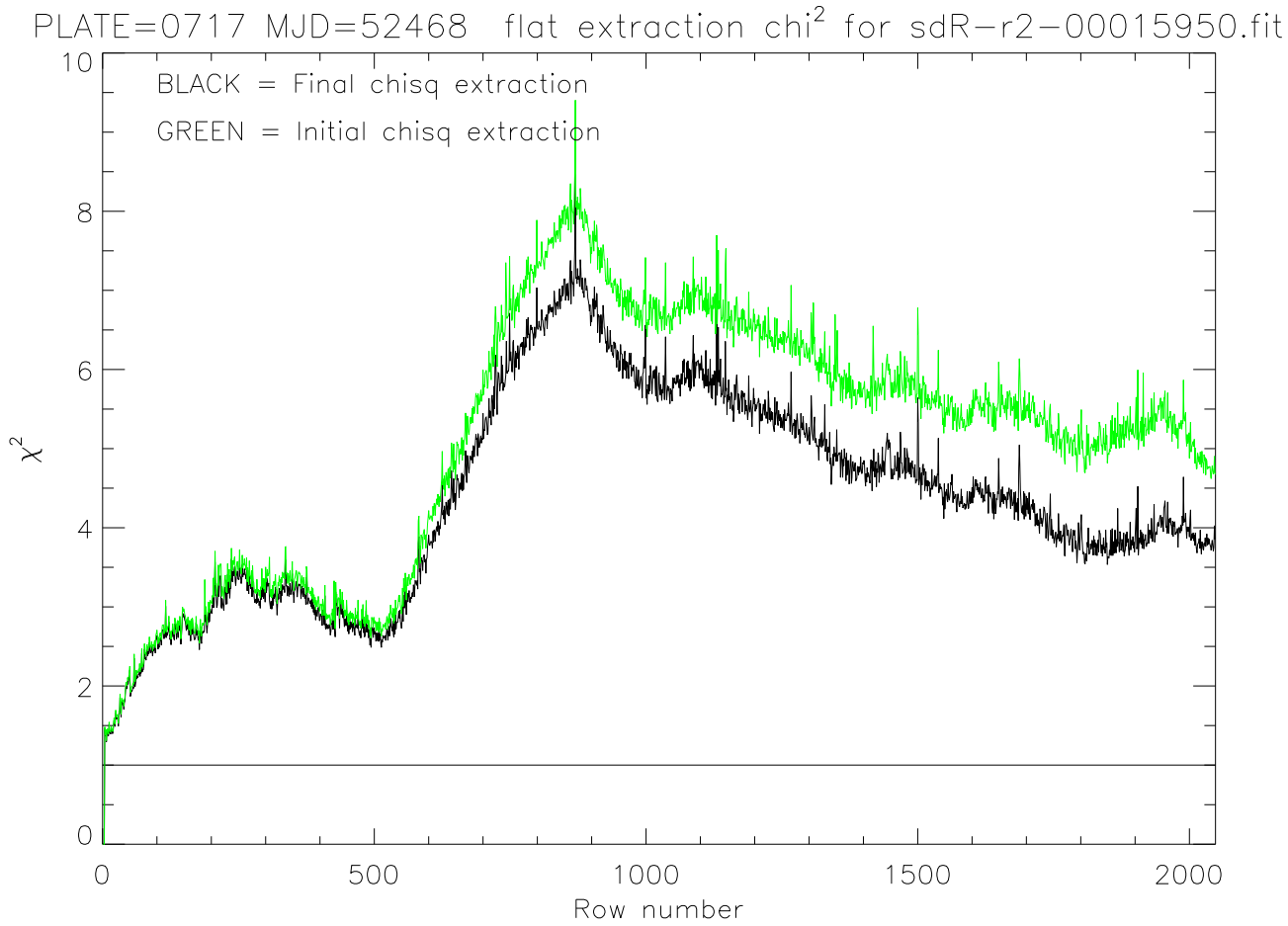

Number of sky fibers = 14
PLATE=0717 MJD=52468 sdR-r1-00015953.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

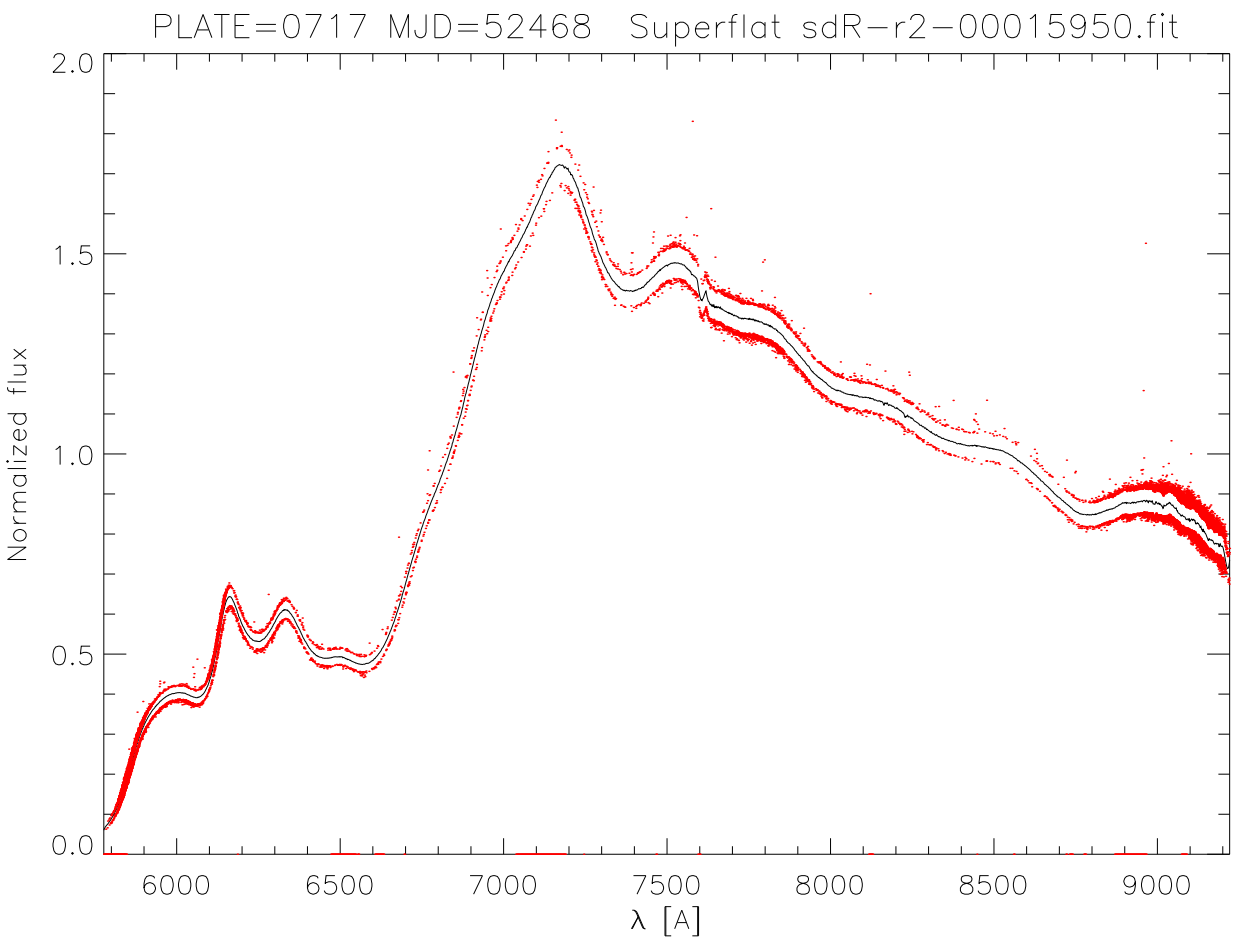

PLATE=0717 MJD=52468 sdR-r1-00015953.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 4.54 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

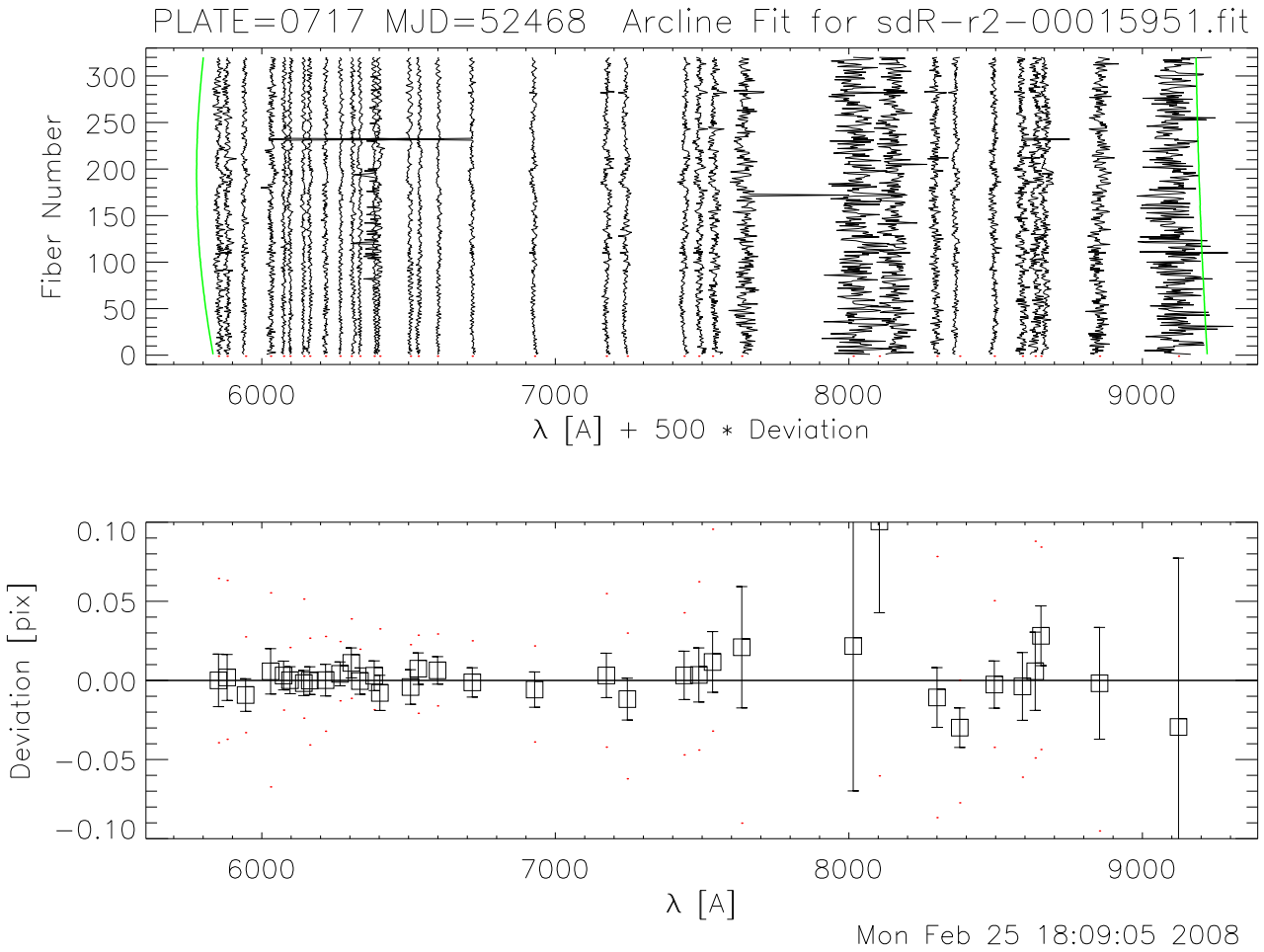

PLATE=0717 MJD=52468 sdR-r1-00015953.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.24 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

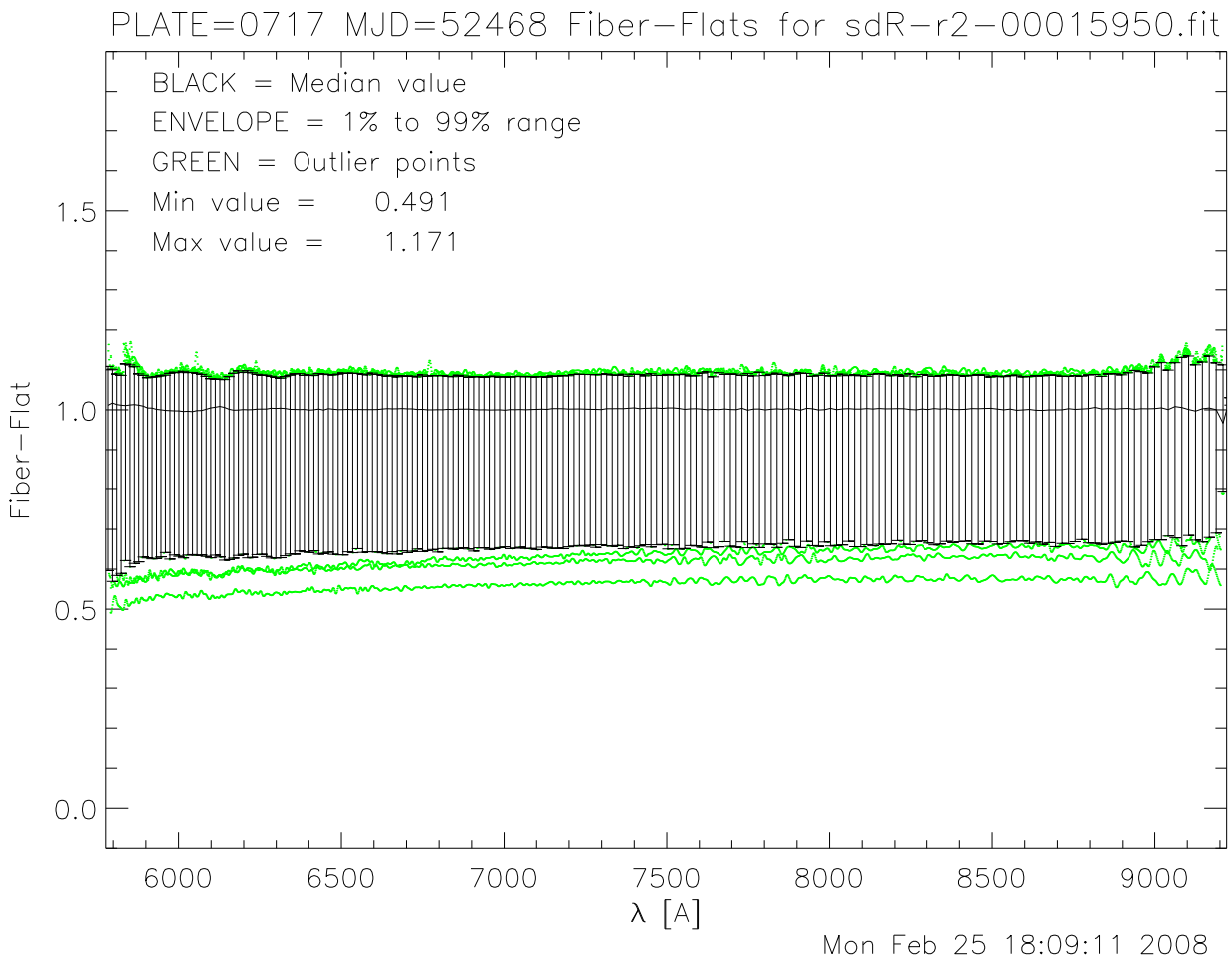

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

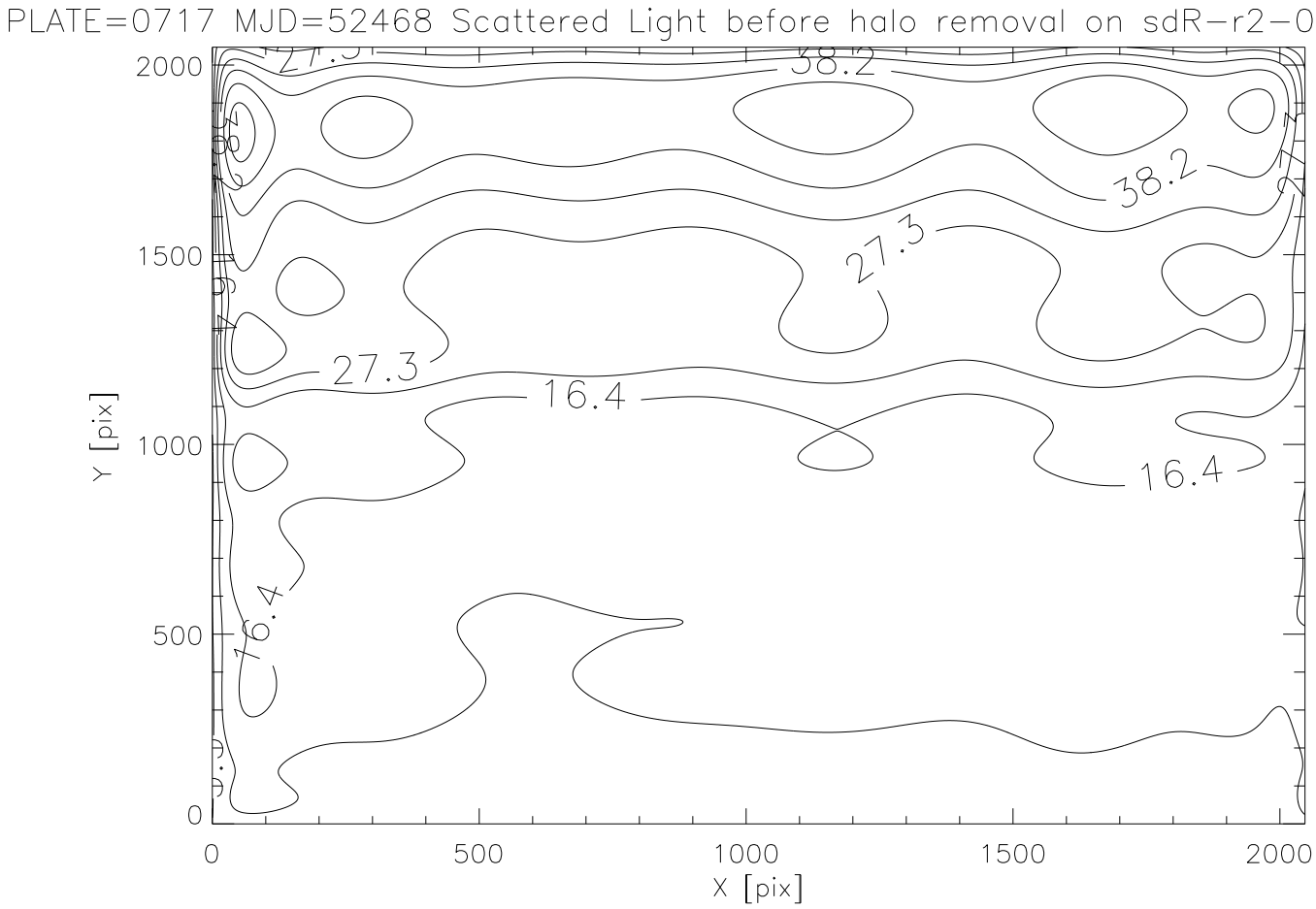

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

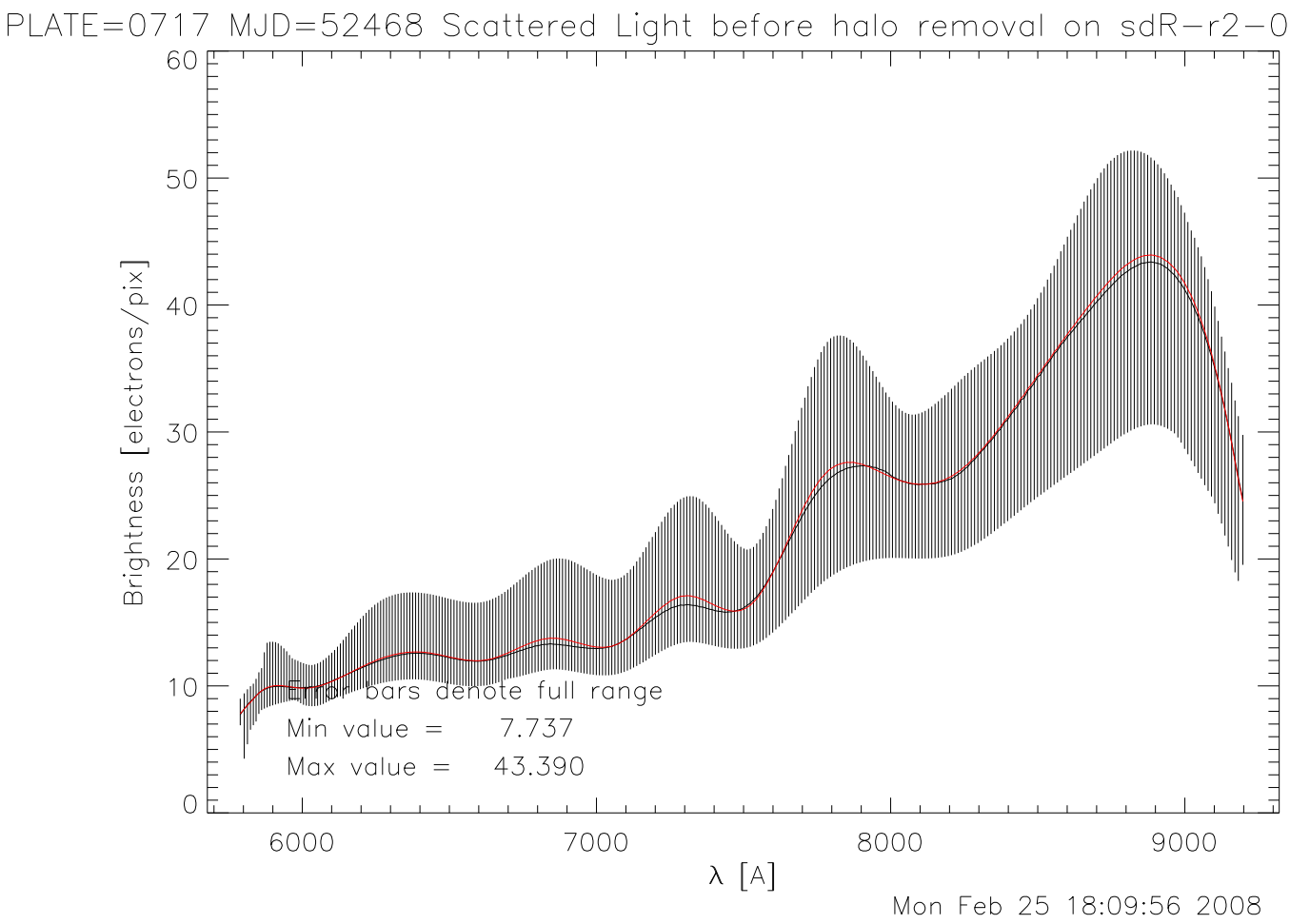

PLATE=0717 MJD=52468 flat extraction chi^2 for sdR−r2−00015950.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

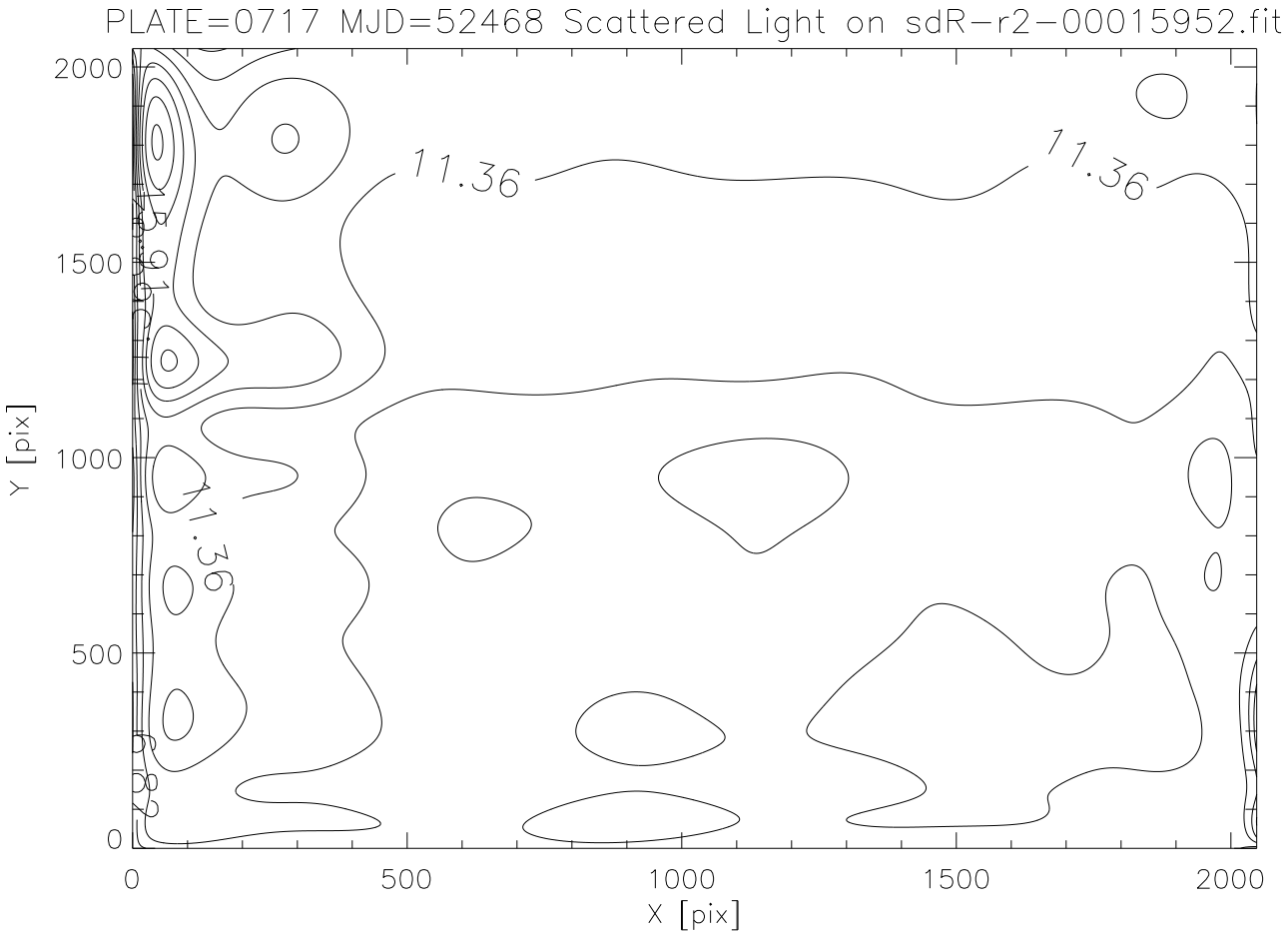

PLATE=0717 MJD=52468 Superflat sdR-r2-00015950.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

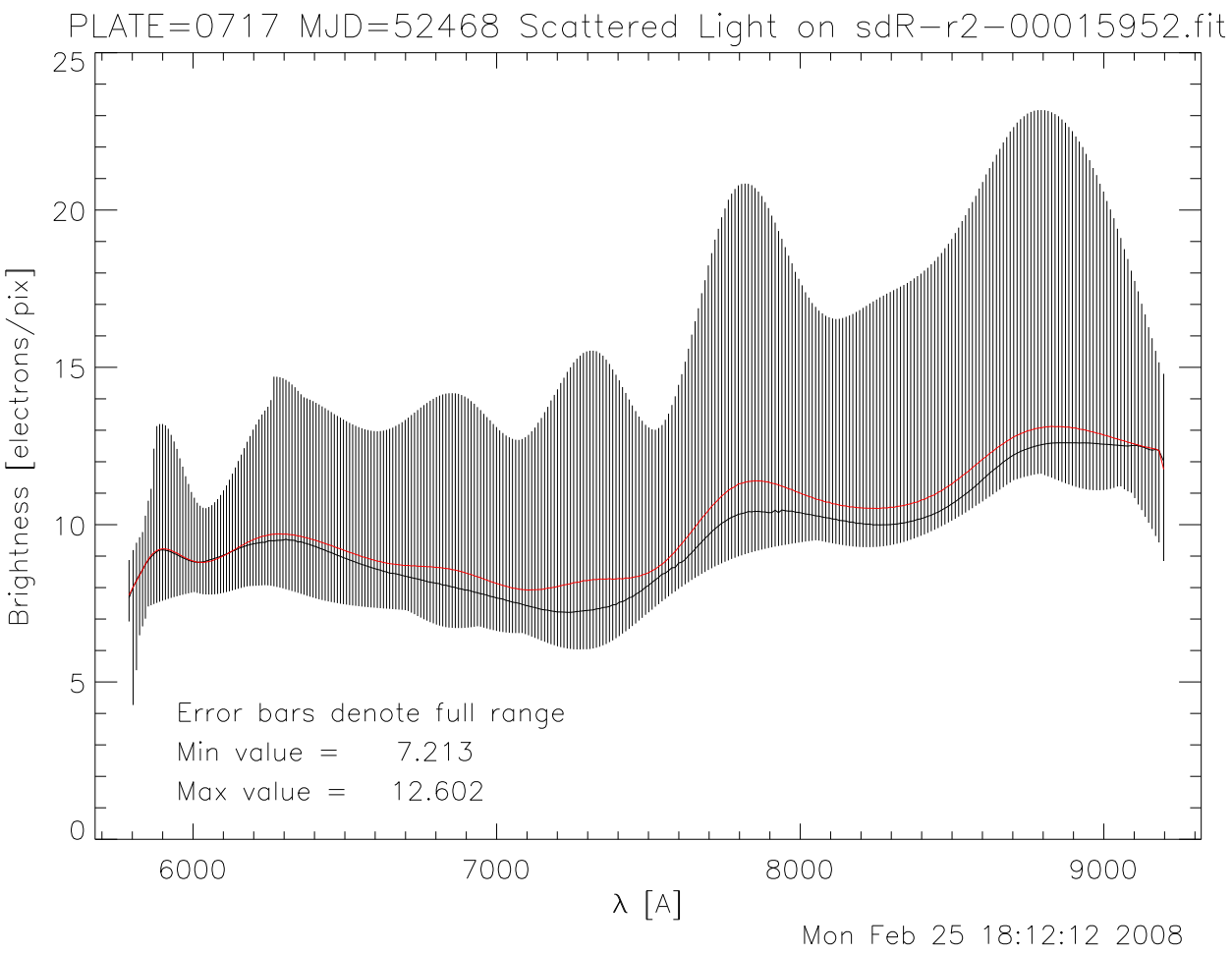

PLATE=0717 MJD=52468 Arcline Fit for sdR-r2-00015951.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Mon Feb 25 18:09:05 2008

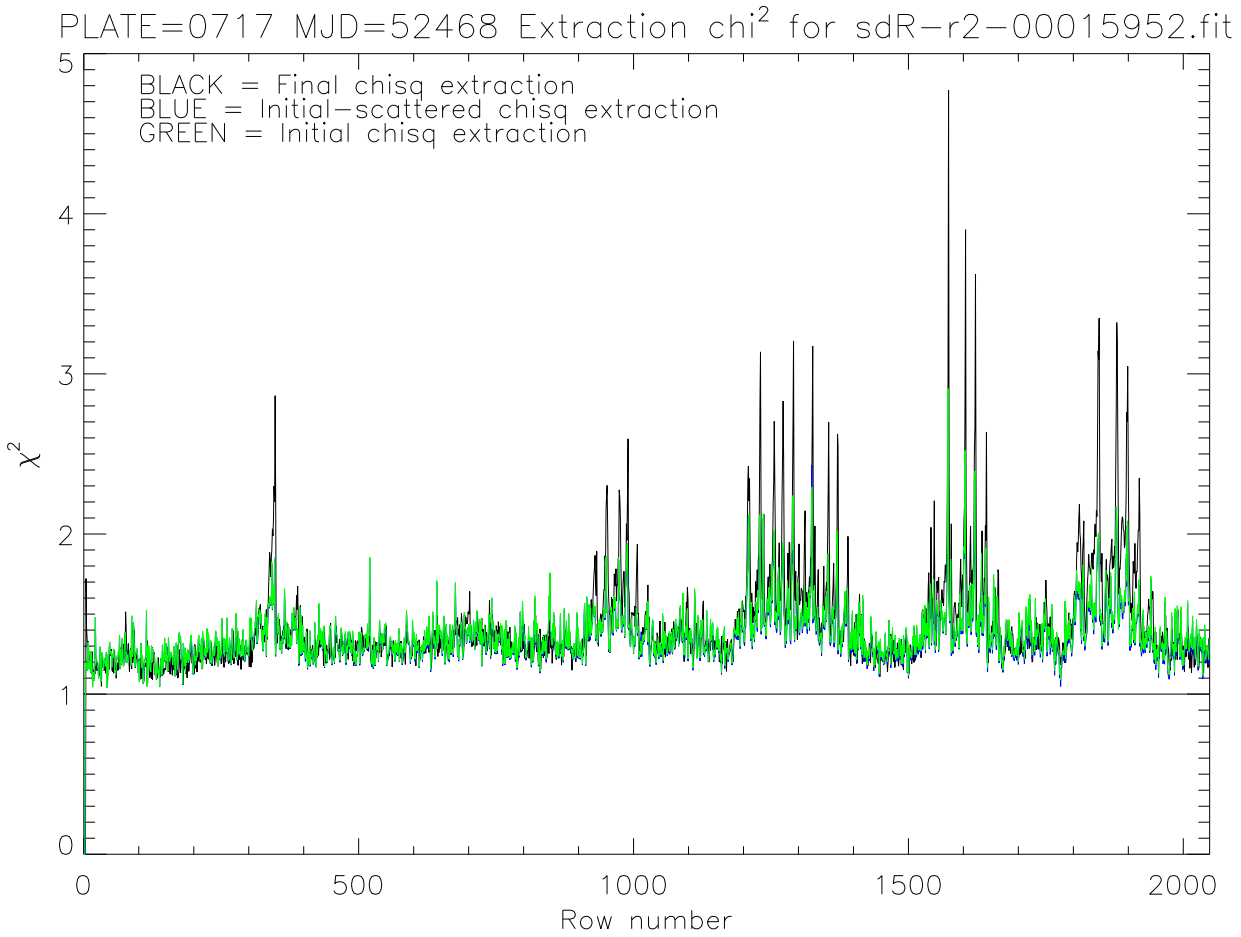

PLATE=0717 MJD=52468 Fiber−Flats for sdR−r2−00015950.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.491
Max value = 1.171
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 25 18:09:11 2008

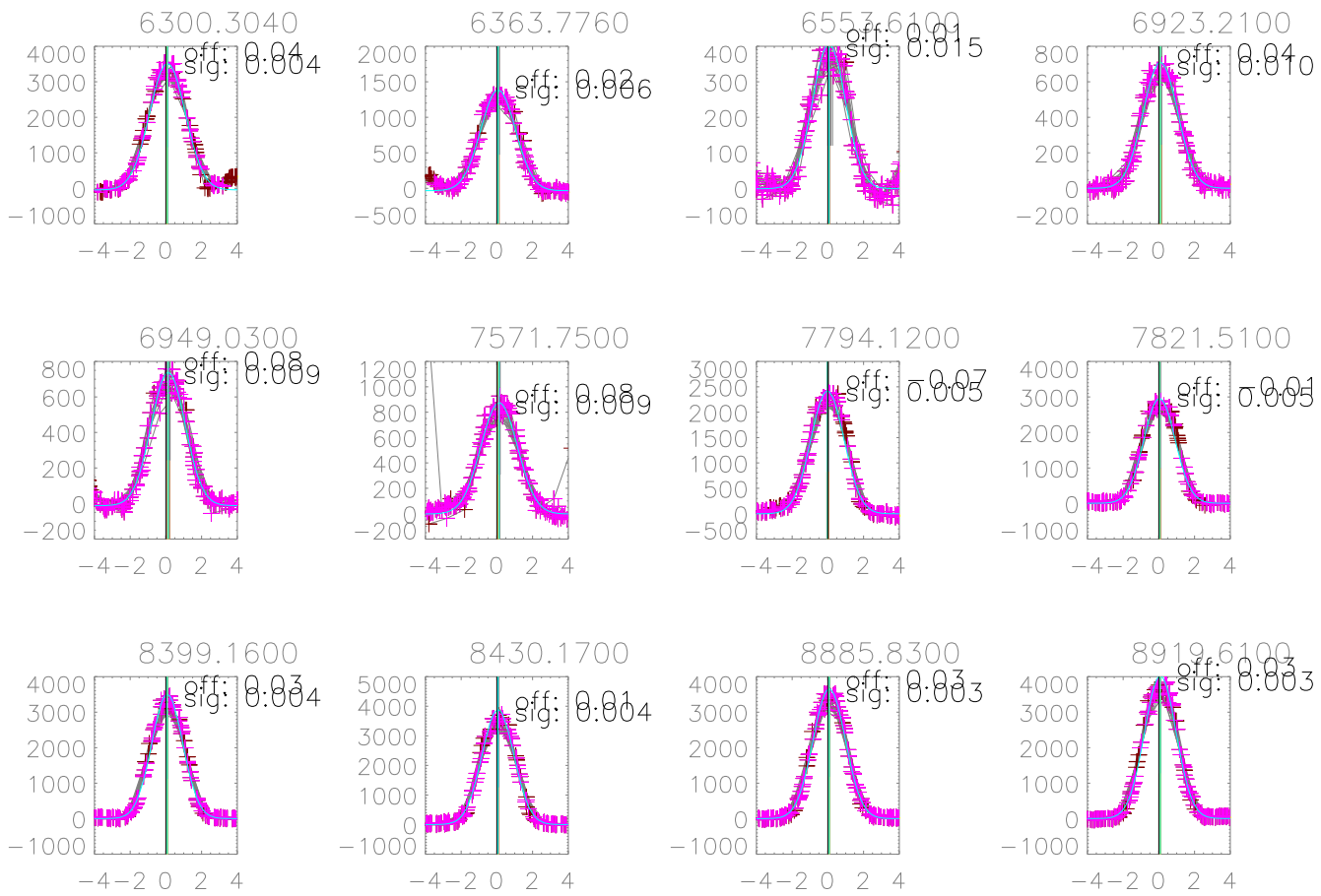

PLATE=0717 MJD=52468 Scattered Light before halo removal on sdR-r2-00015952.fi
38.2
38.2
27.3
27.3
16.4
16.4
16.4
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

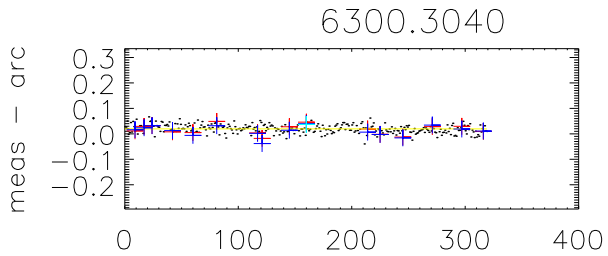

PLATE=0717 MJD=52468 Scattered Light before halo removal on sdR-r2-00015952.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.737
Max value = 43.390
Mon Feb 25 18:09:56 2008

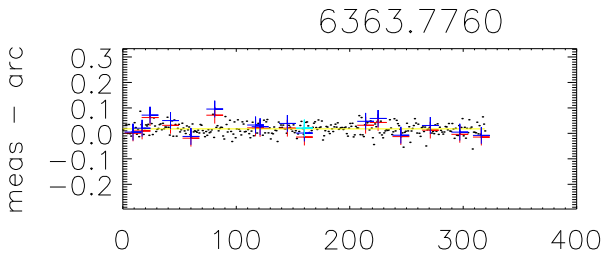

PLATE=0717 MJD=52468 Scattered Light on sdR-r2-00015952.fit
11.36
11.36
11.36
Y [pix]
X [pix]
0
500
1000
1500
2000

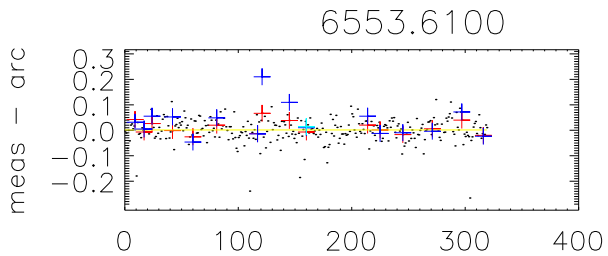

PLATE=0717 MJD=52468 Scattered Light on sdR-r2-00015952.fit
Brightness [electrons/pix]
25
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 7.213
Max value = 12.602
Mon Feb 25 18:12:12 2008

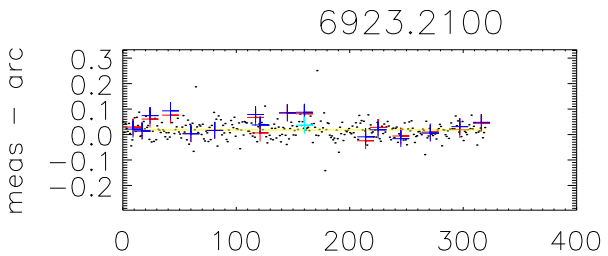

PLATE=0717 MJD=52468 Extraction chi^2 for sdR-r2-00015952.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

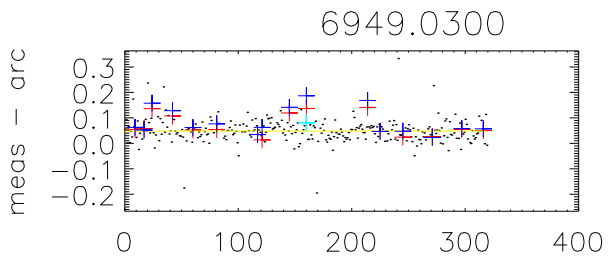

6300.3040
off: 0.04
sig: 0.004
6363.7760
off: 0.02
sig: 0.006
6553.6100
off: 0.01
sig: 0.015
6923.2100
off: 0.04
sig: 0.010
6949.0300
off: 0.08
sig: 0.009
7571.7500
off: 0.08
sig: 0.009
7794.1200
off: -0.07
sig: 0.005
7821.5100
off: -0.01
sig: 0.005
8399.1600
off: 0.03
sig: 0.004
8430.1700
off: 0.01
sig: 0.004
8885.8300
off: 0.03
sig: 0.003
8919.6100
off: 0.03
sig: 0.003

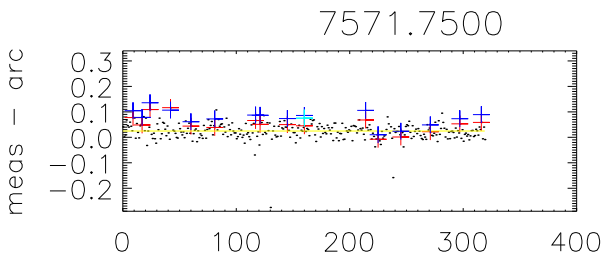

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

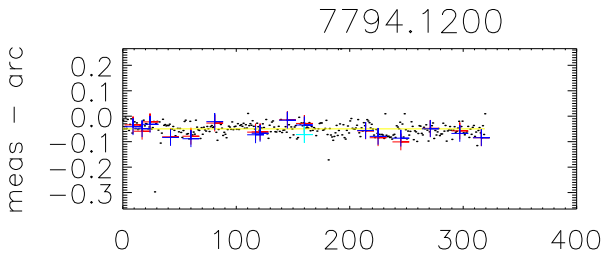

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

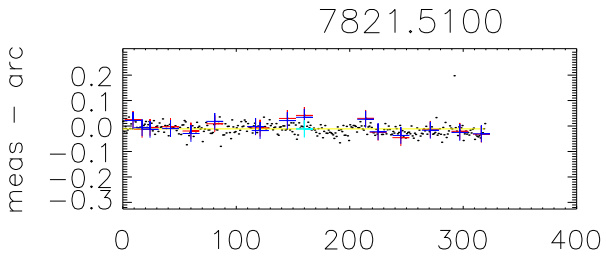

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

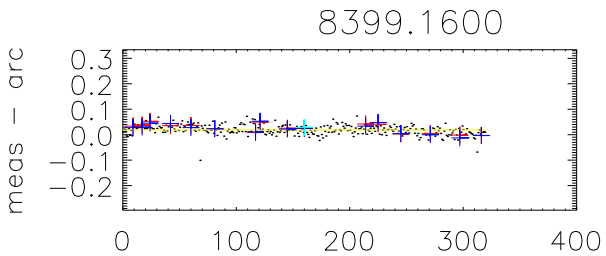

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

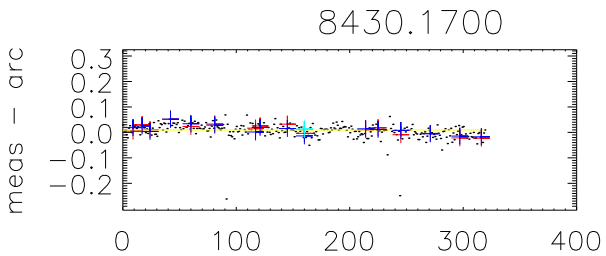

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

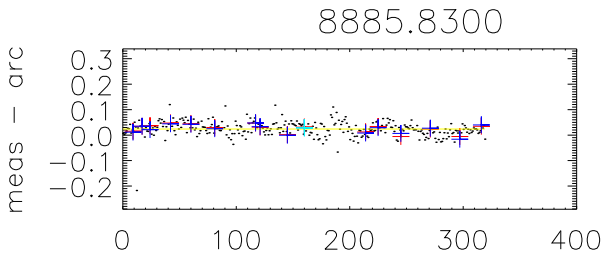

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

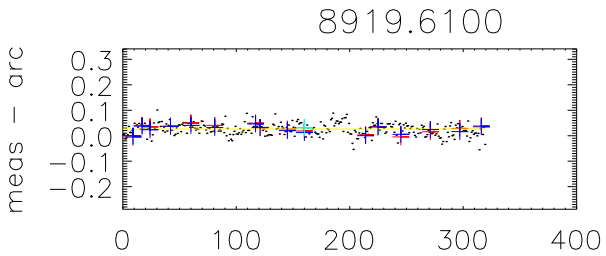

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

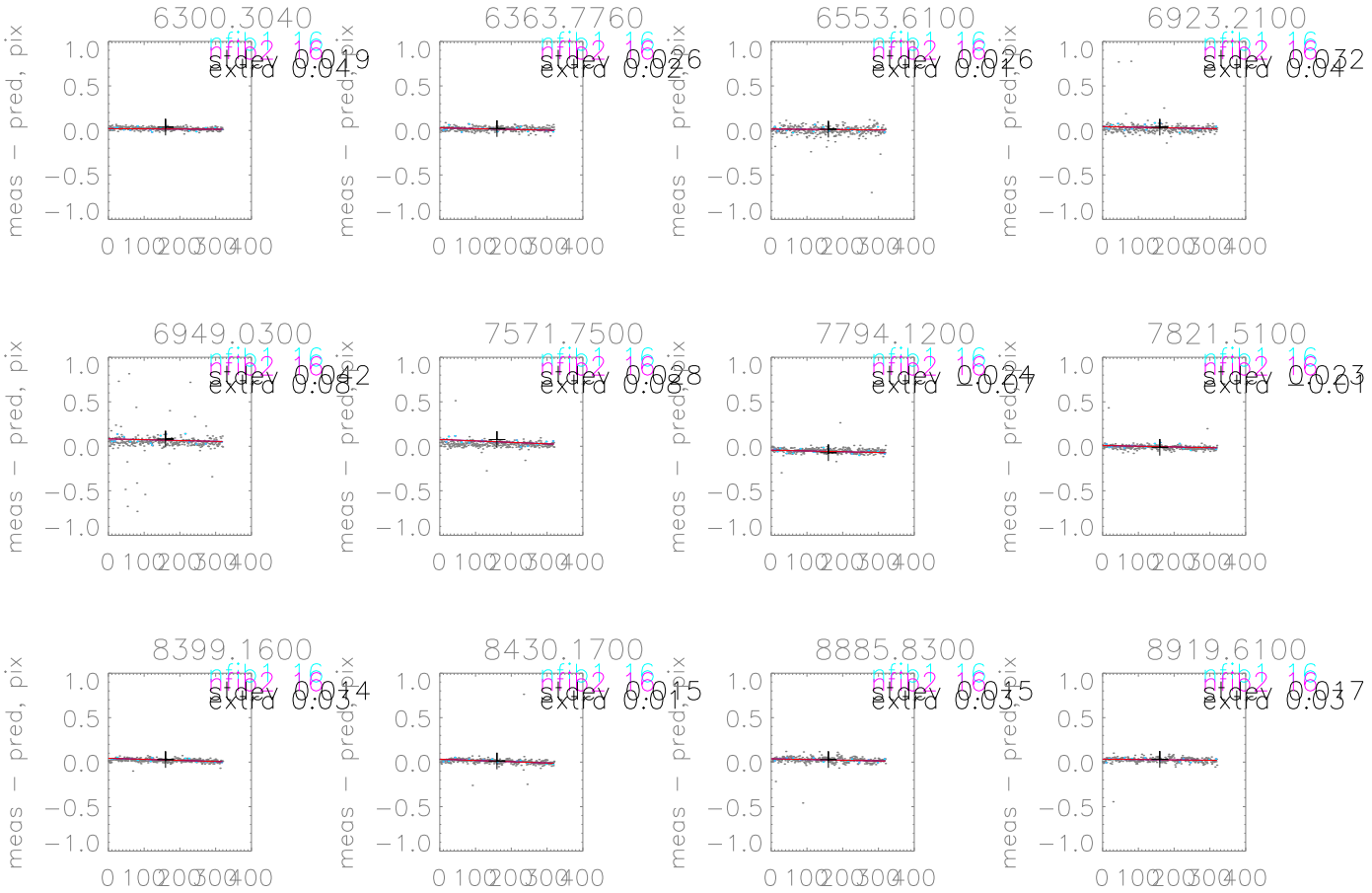

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

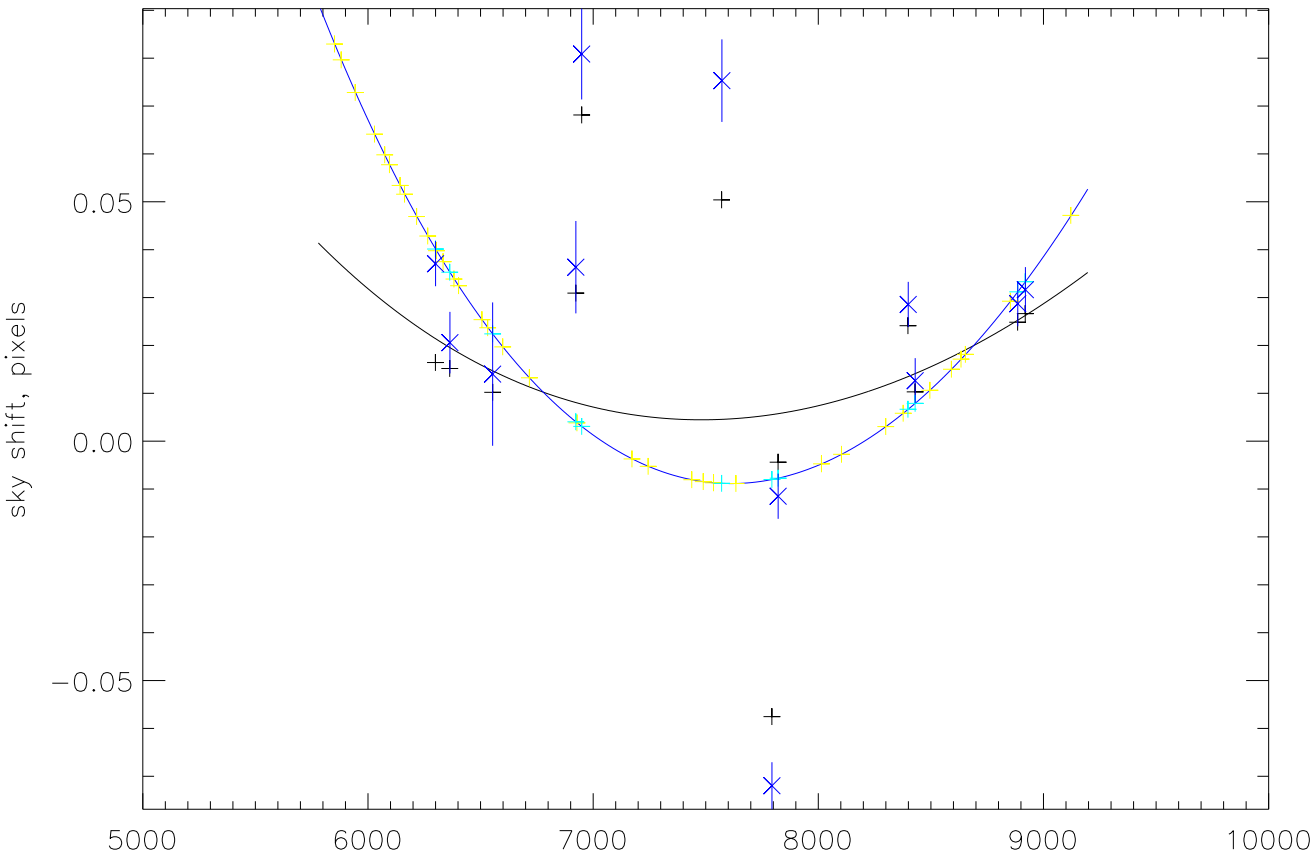

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

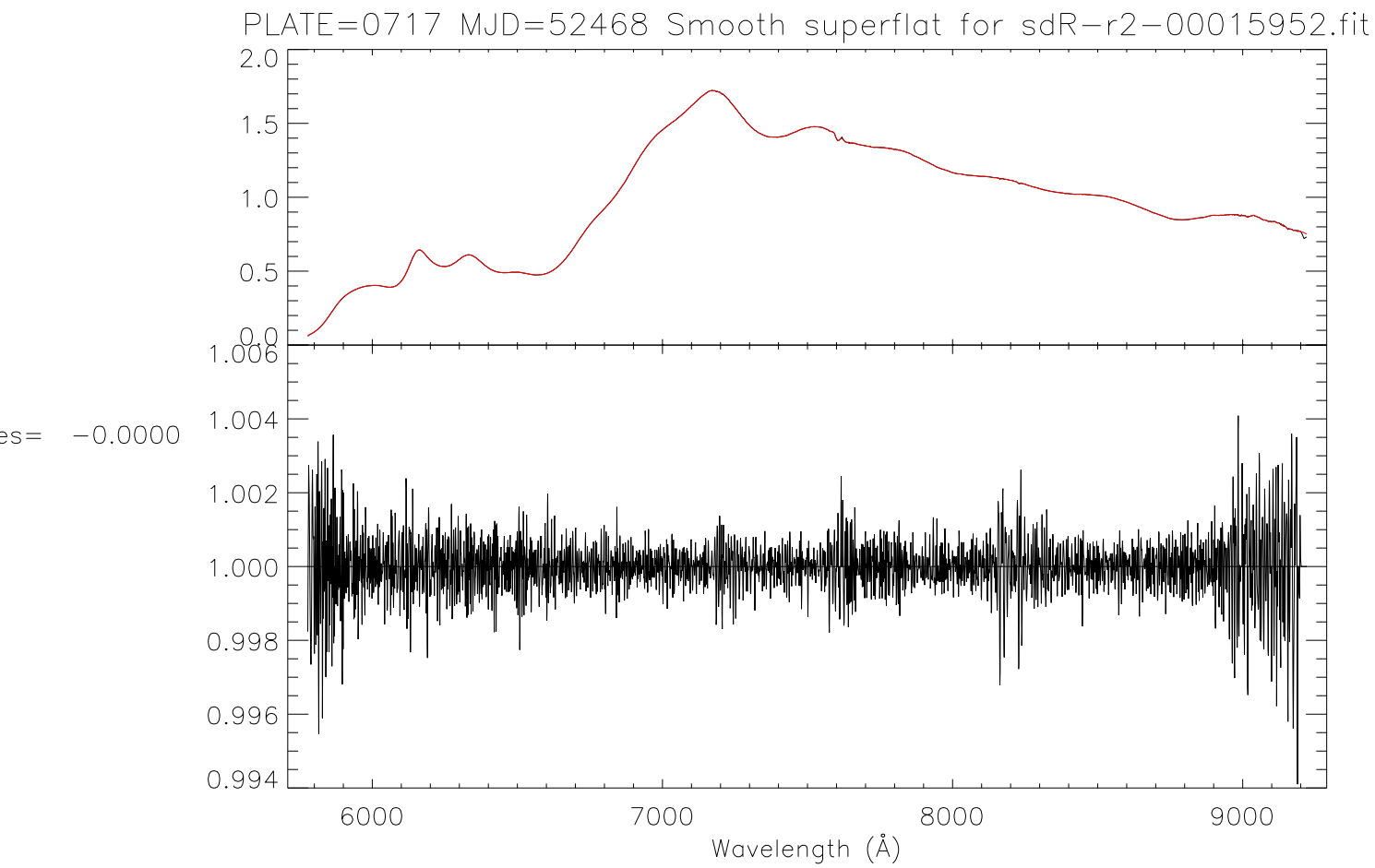

8430.1700
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

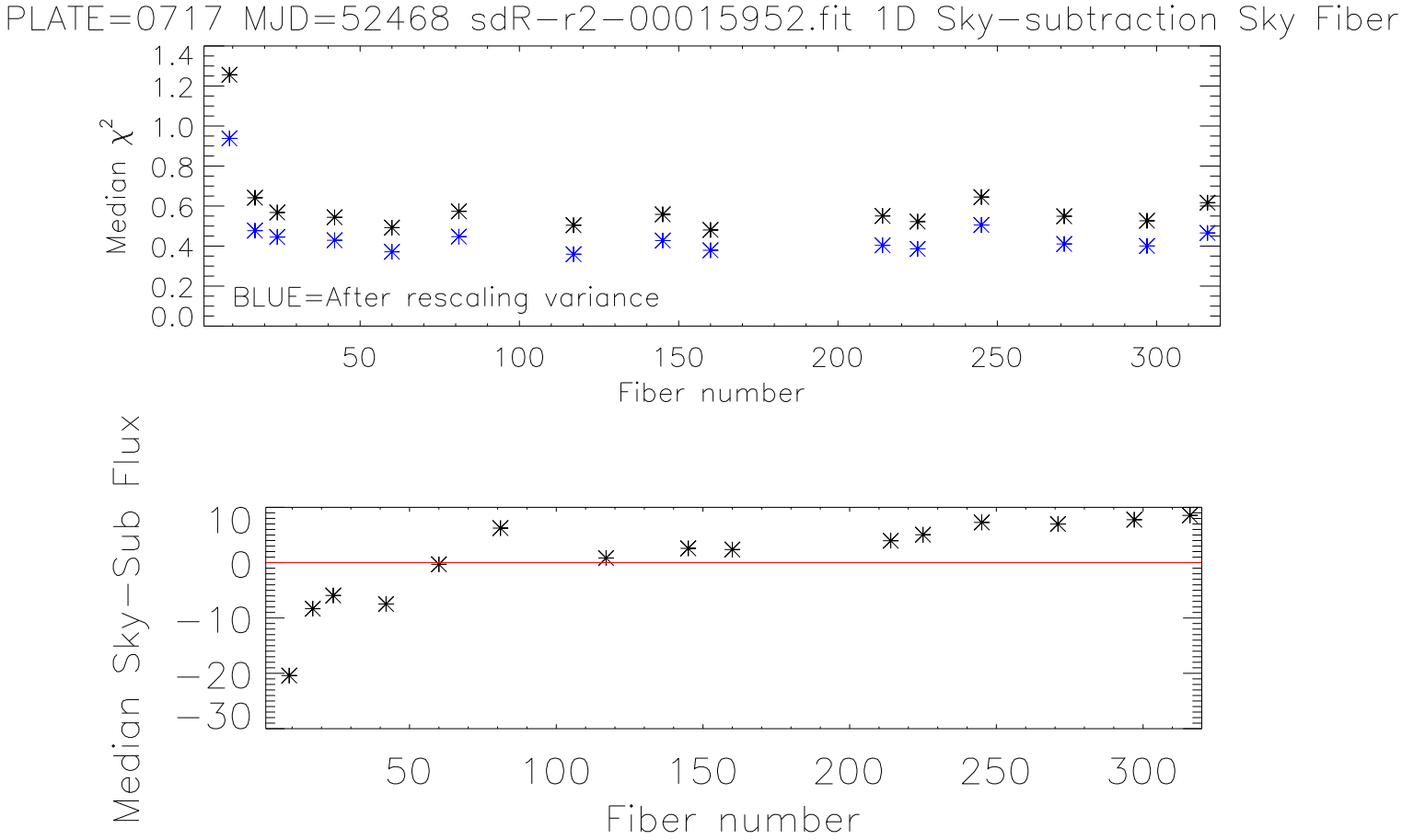

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

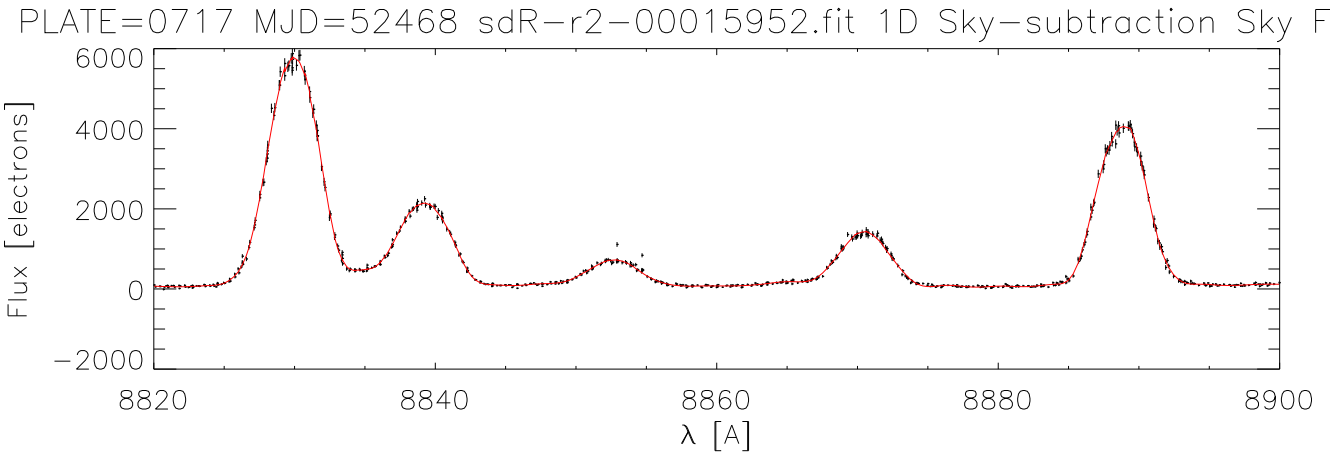

6300.3040
stdev 0.019
extra 0.04
6363.7760
stdev 0.026
extra 0.02
6553.6100
stdev 0.026
extra 0.01
6923.2100
stdev 0.032
extra 0.04
6949.0300
stdev 0.042
extra 0.08
7571.7500
stdev 0.028
extra 0.08
7794.1200
stdev 0.024
extra −0.07
7821.5100
stdev 0.023
extra −0.01
8399.1600
stdev 0.034
extra 0.03
8430.1700
stdev 0.015
extra 0.01
8885.8300
stdev 0.025
extra 0.03
8919.6100
stdev 0.017
extra 0.03
meas − pred, pix
mfb32 16

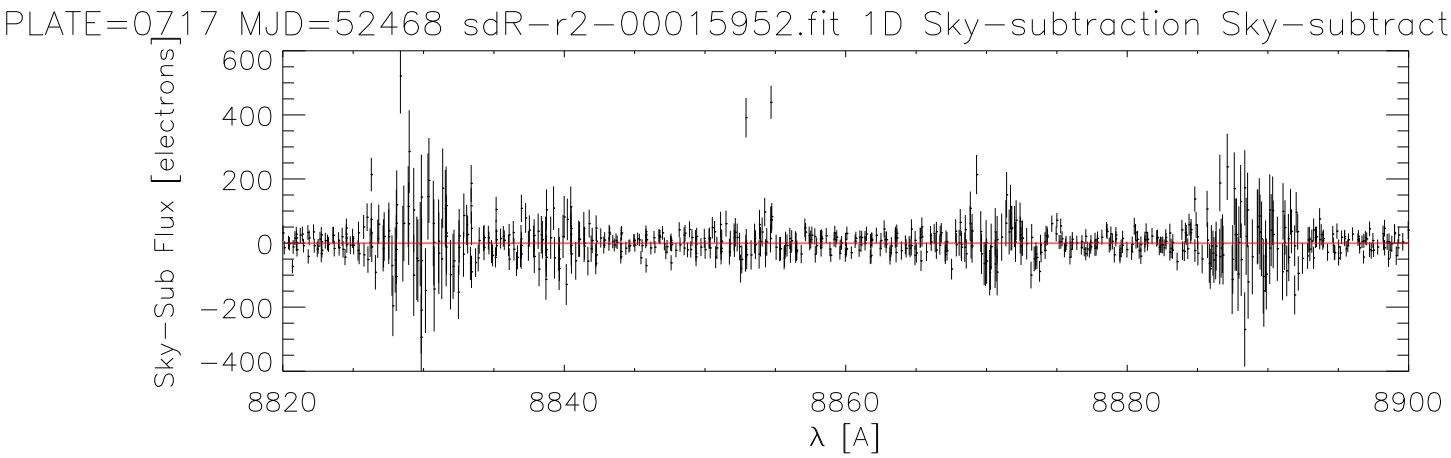

sky shift, pixels
0.05
0.00
−0.05
5000
6000
7000
8000
9000
10000

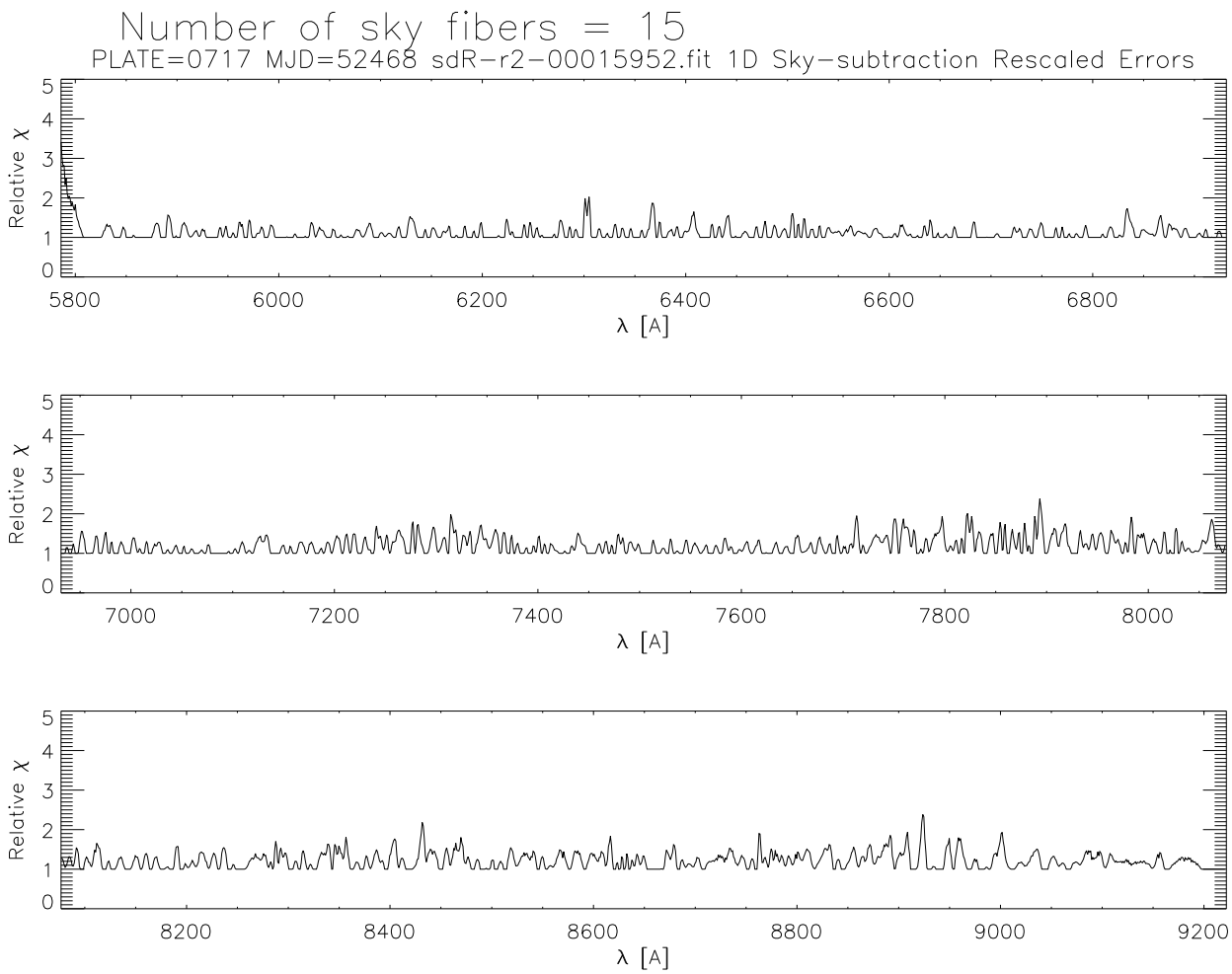

PLATE=0717 MJD=52468 Smooth superflat for sdR-r2-00015952.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
6000
7000
8000
9000
Wavelength (Å)

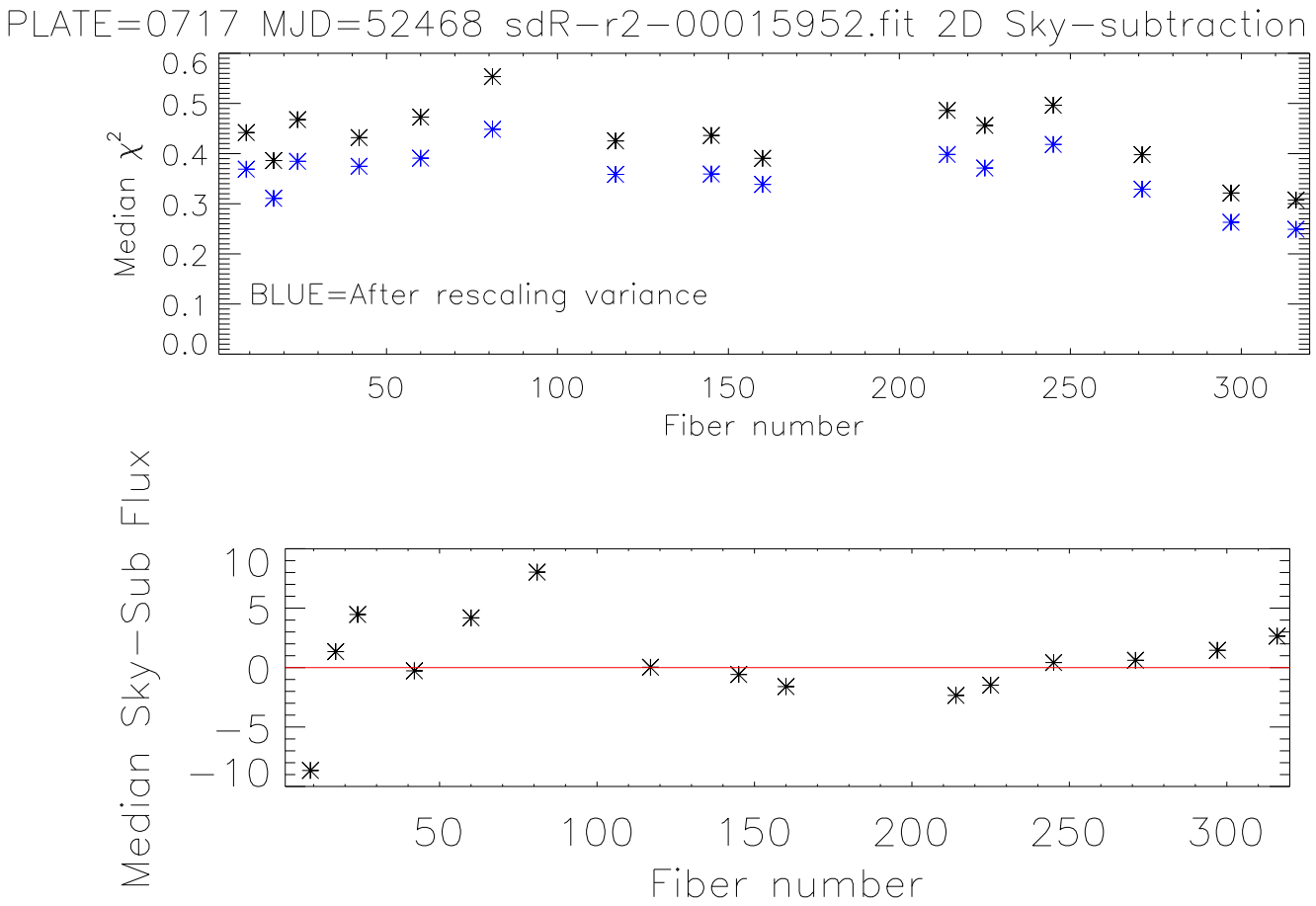
es= −0.0000

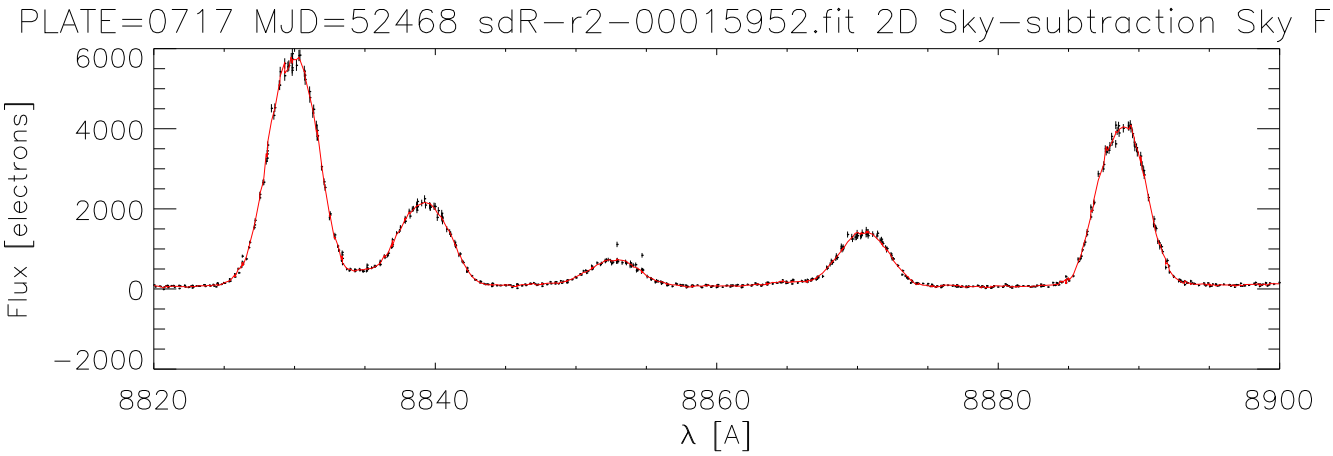

PLATE=0717 MJD=52468 sdR-r2-00015952.fit 1D Sky-subtraction Sky Fibers
Median χ^2
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
0
-10
-20
-30
50
100
150
200
250
300
Fiber number

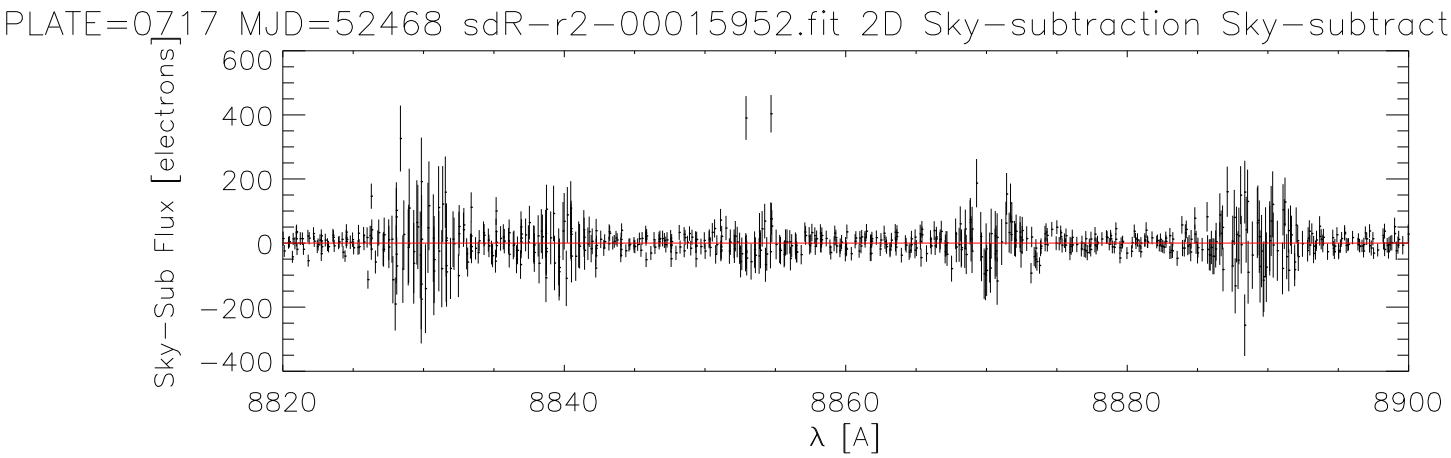

PLATE=0717 MJD=52468 sdR-r2-00015952.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
−2000
8820
8840
8860
8880
8900
λ [A]

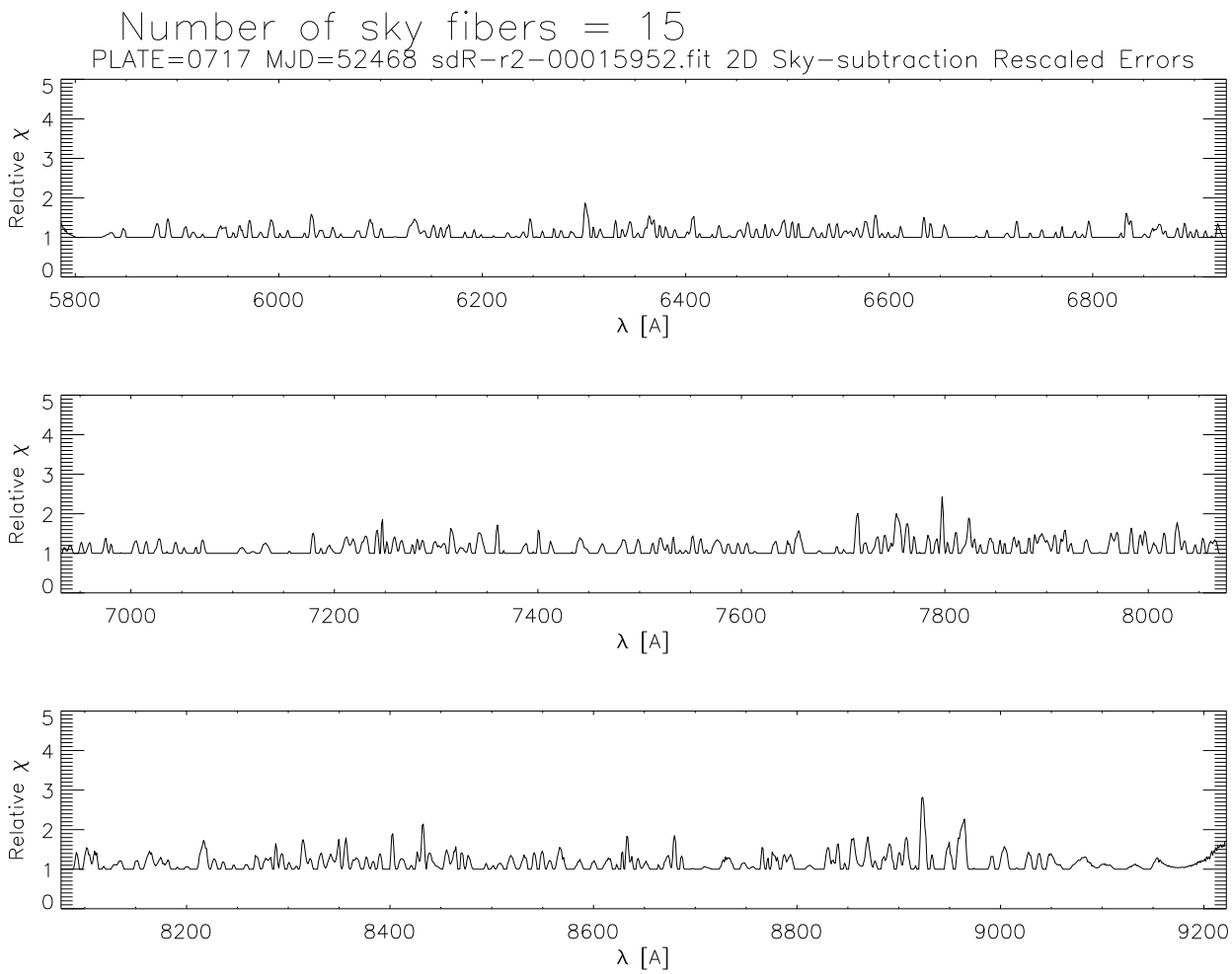

PLATE=0717 MJD=52468 sdR-r2-00015952.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
−200
−400
8820
8840
8860
8880
8900
λ [A]

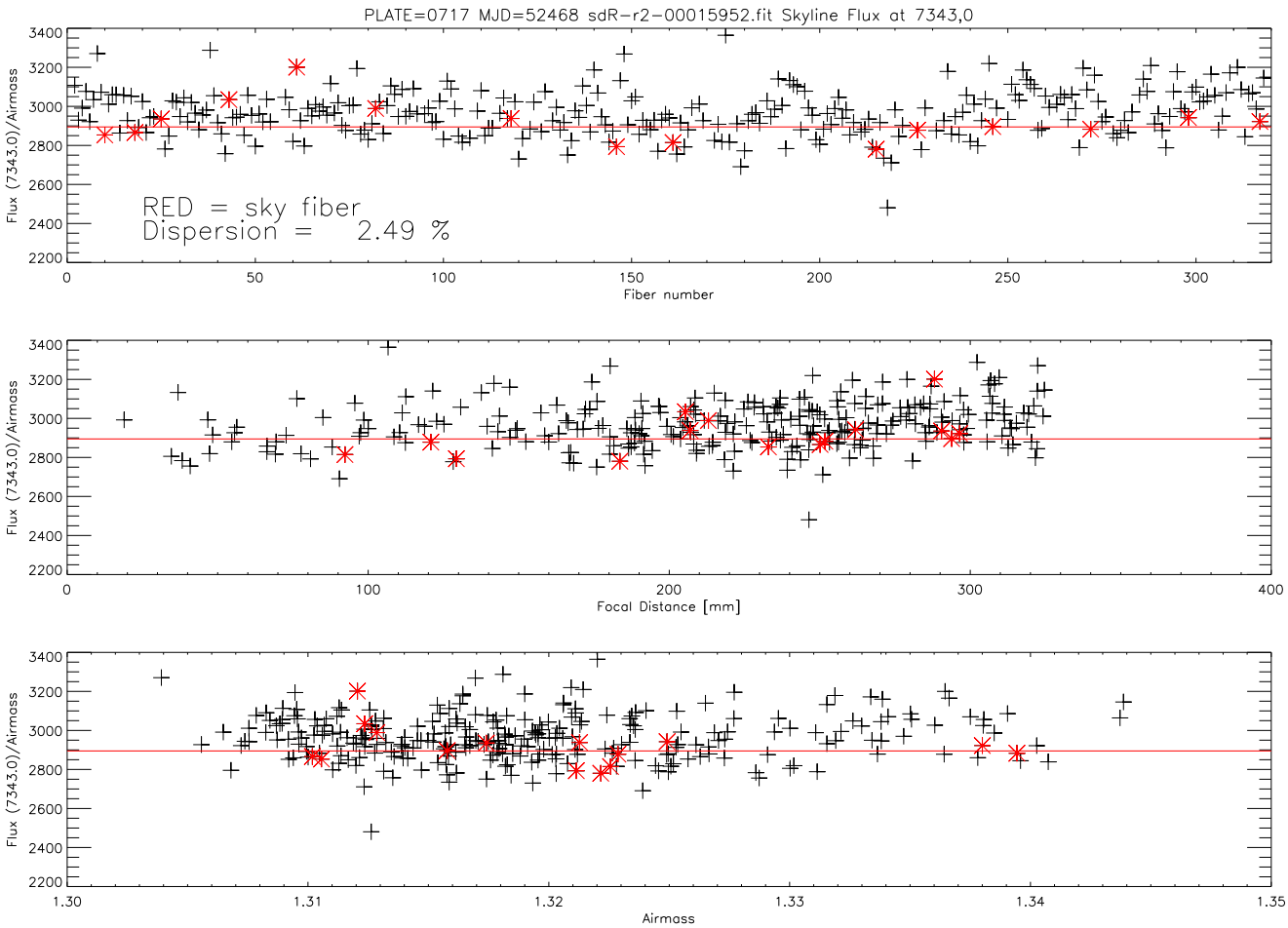

Number of sky fibers = 15
PLATE=0717 MJD=52468 sdR-r2-00015952.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

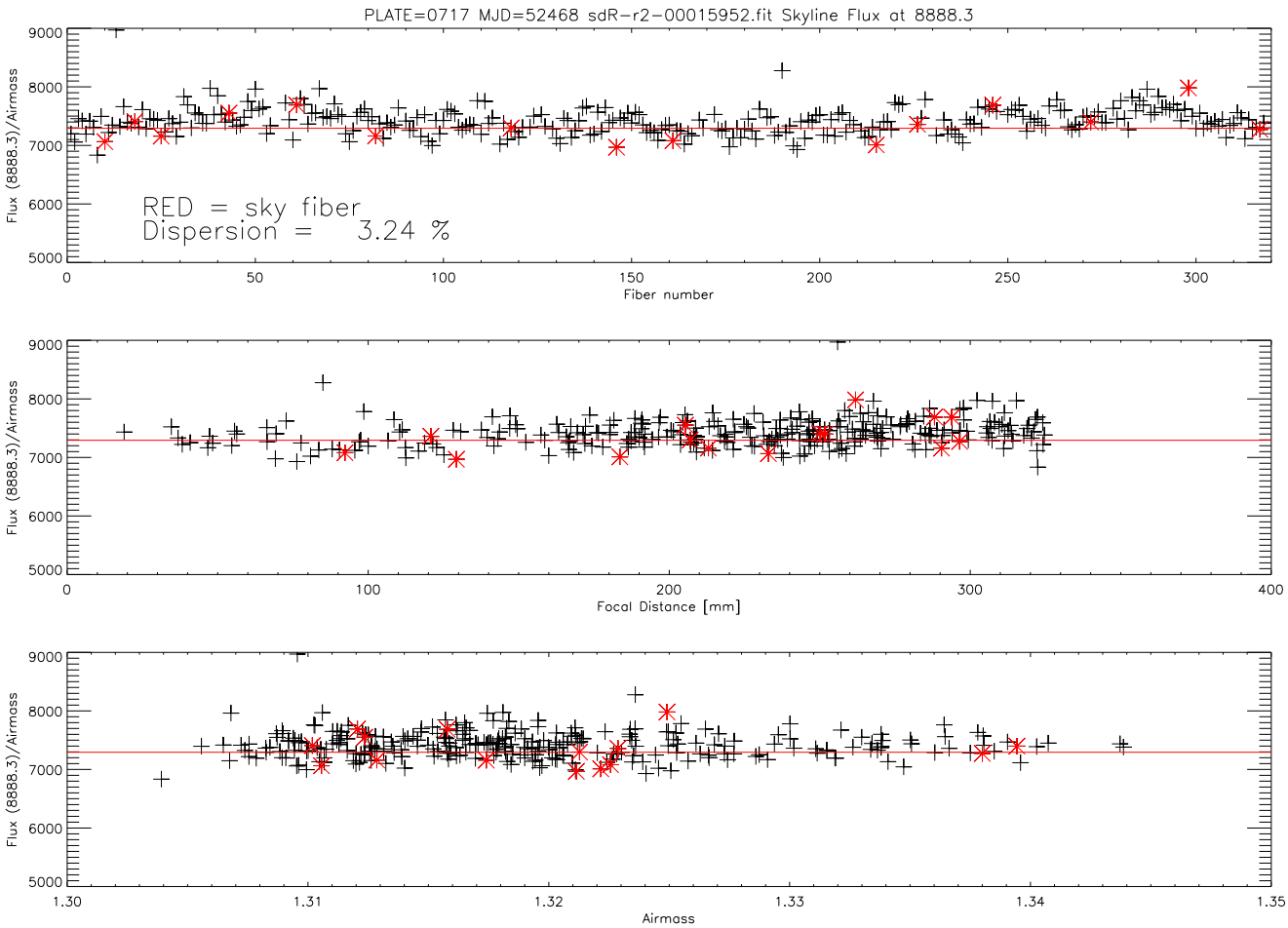

PLATE=0717 MJD=52468 sdR-r2-00015952.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

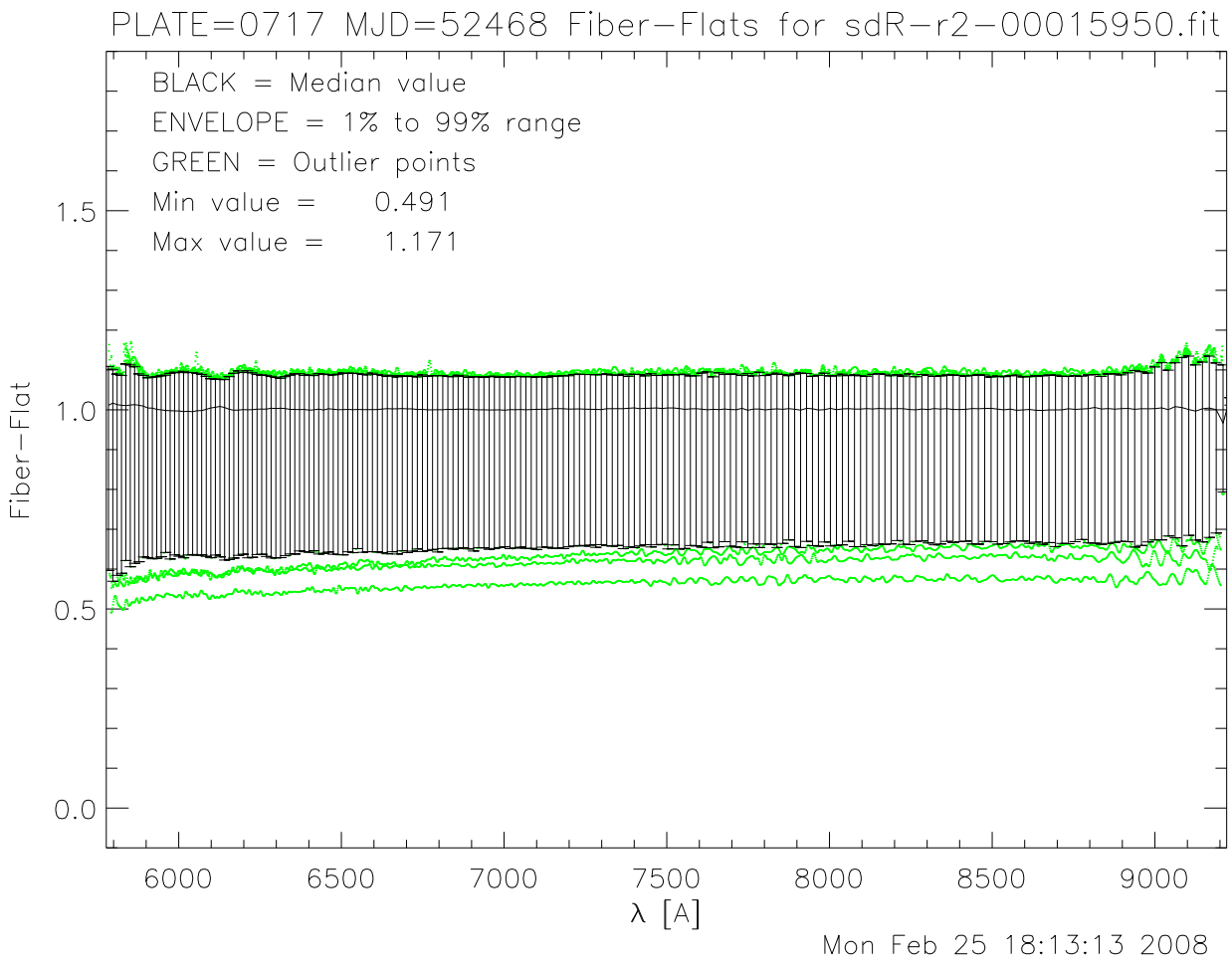

PLATE=0717 MJD=52468 sdR-r2-00015952.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
−2000
8820
8840
8860
8880
8900
λ [A]

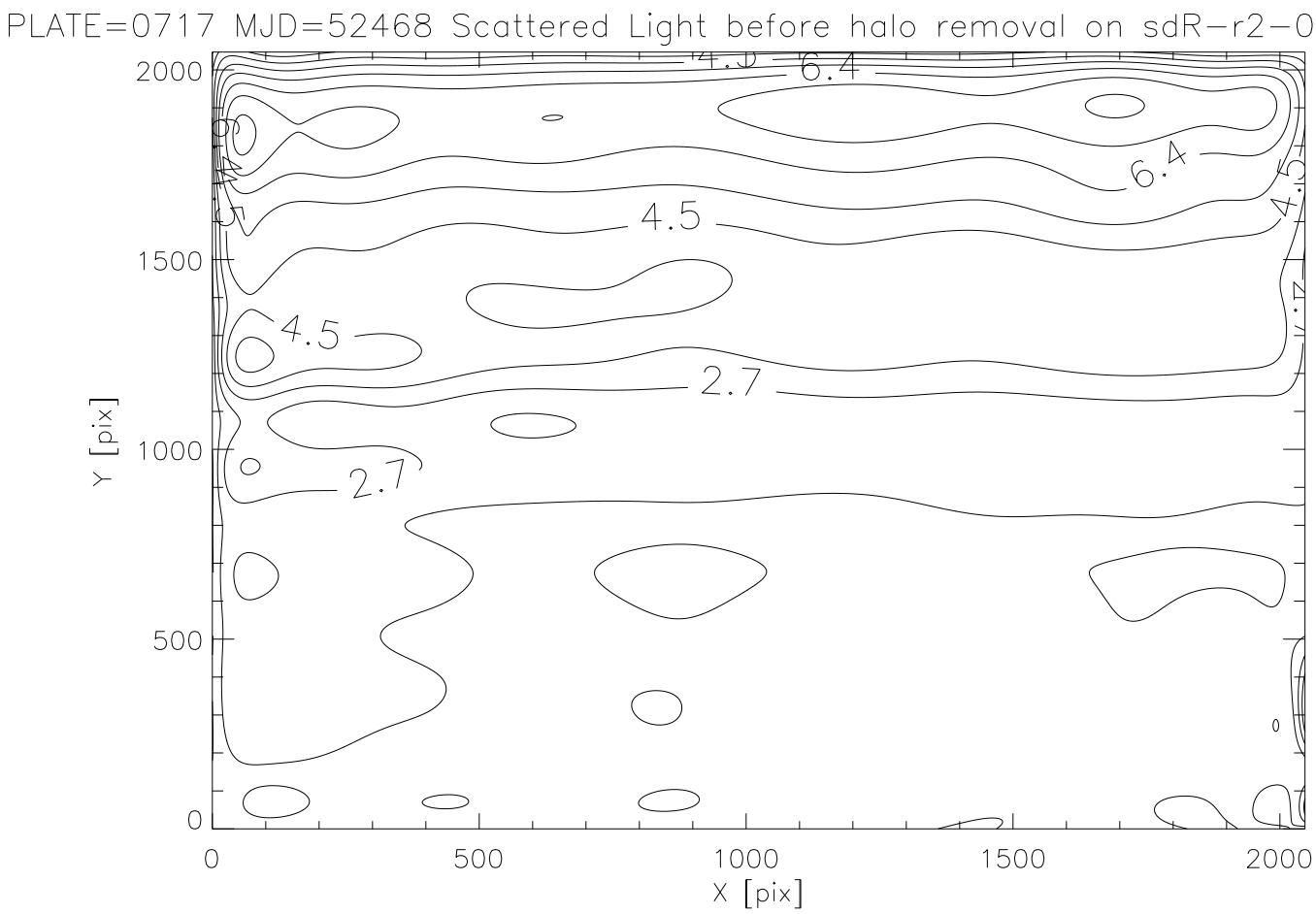

PLATE=0717 MJD=52468 sdR-r2-00015952.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
−200
−400
8820
8840
8860
8880
8900
λ [A]

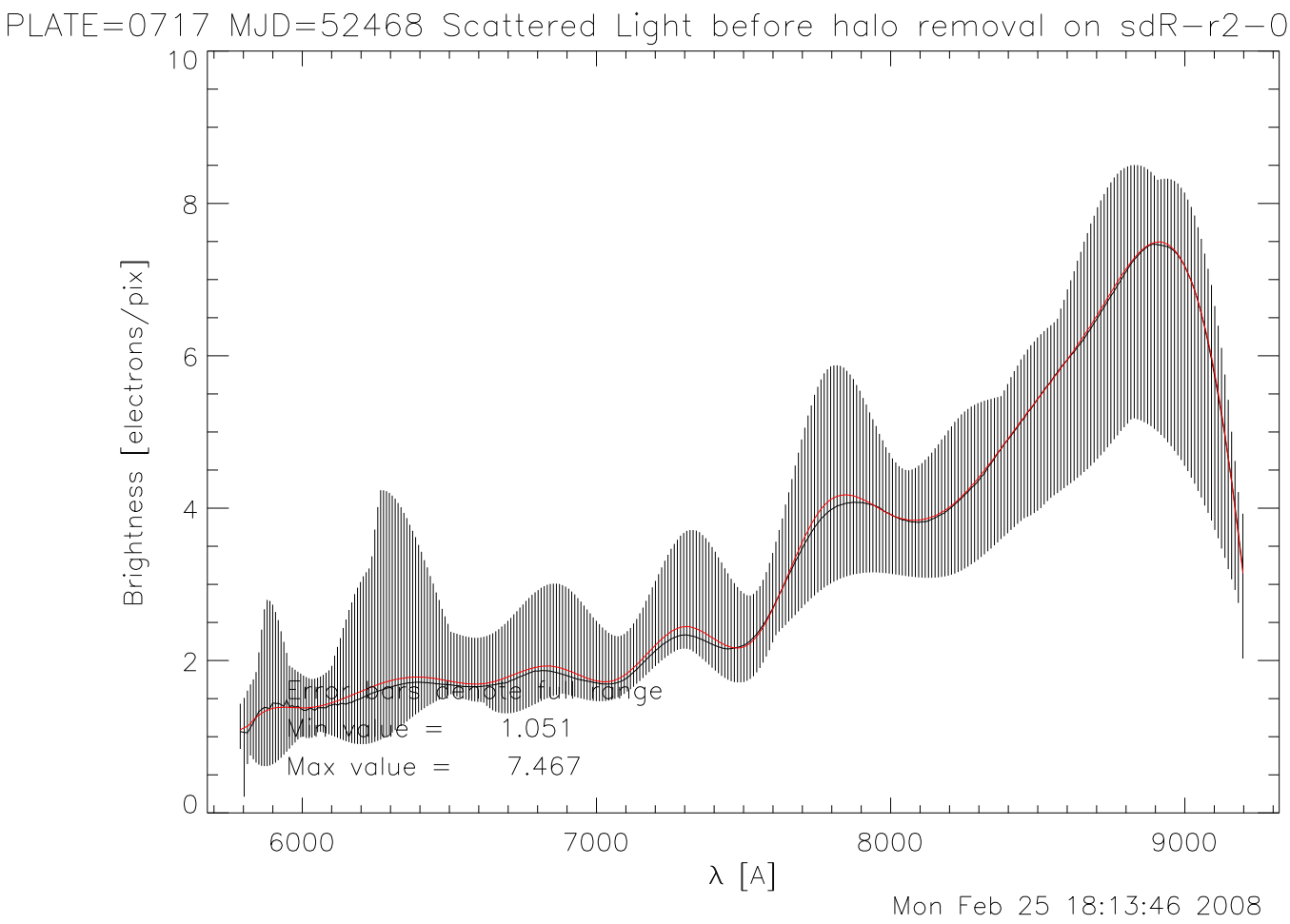

Number of sky fibers = 15
PLATE=0717 MJD=52468 sdR-r2-00015952.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

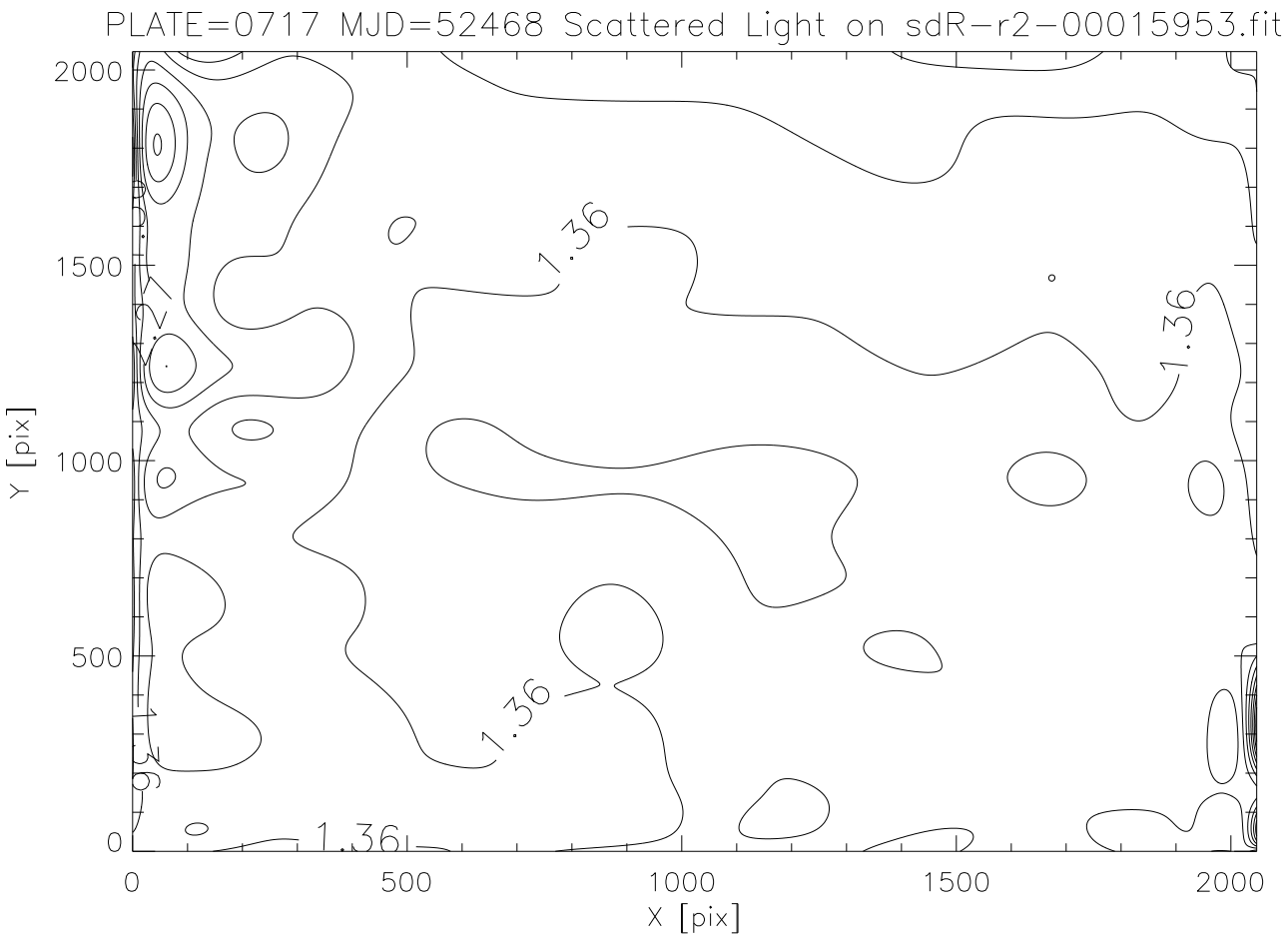

PLATE=0717 MJD=52468 sdR-r2-00015952.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.49 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

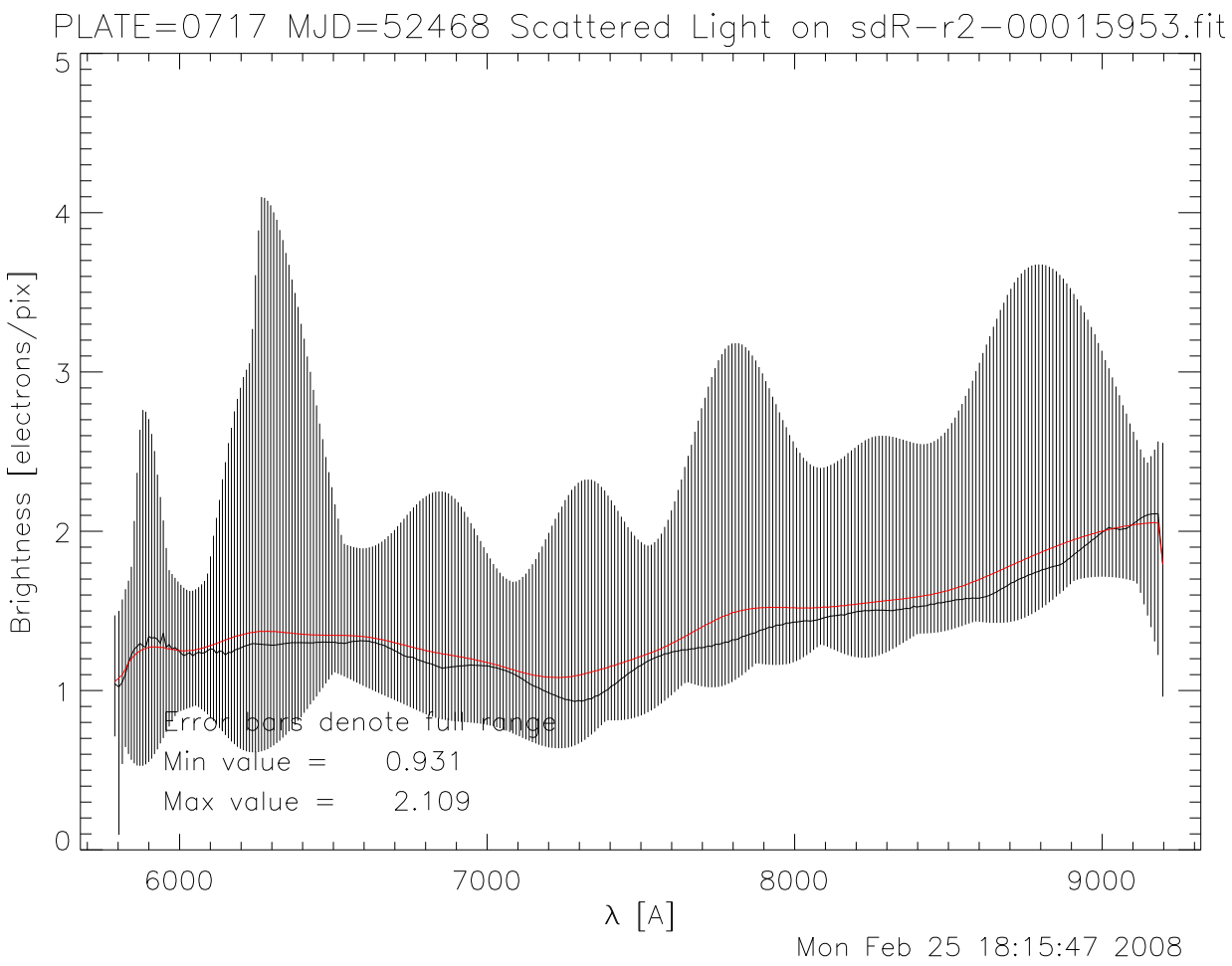

PLATE=0717 MJD=52468 sdR-r2-00015952.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.24 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

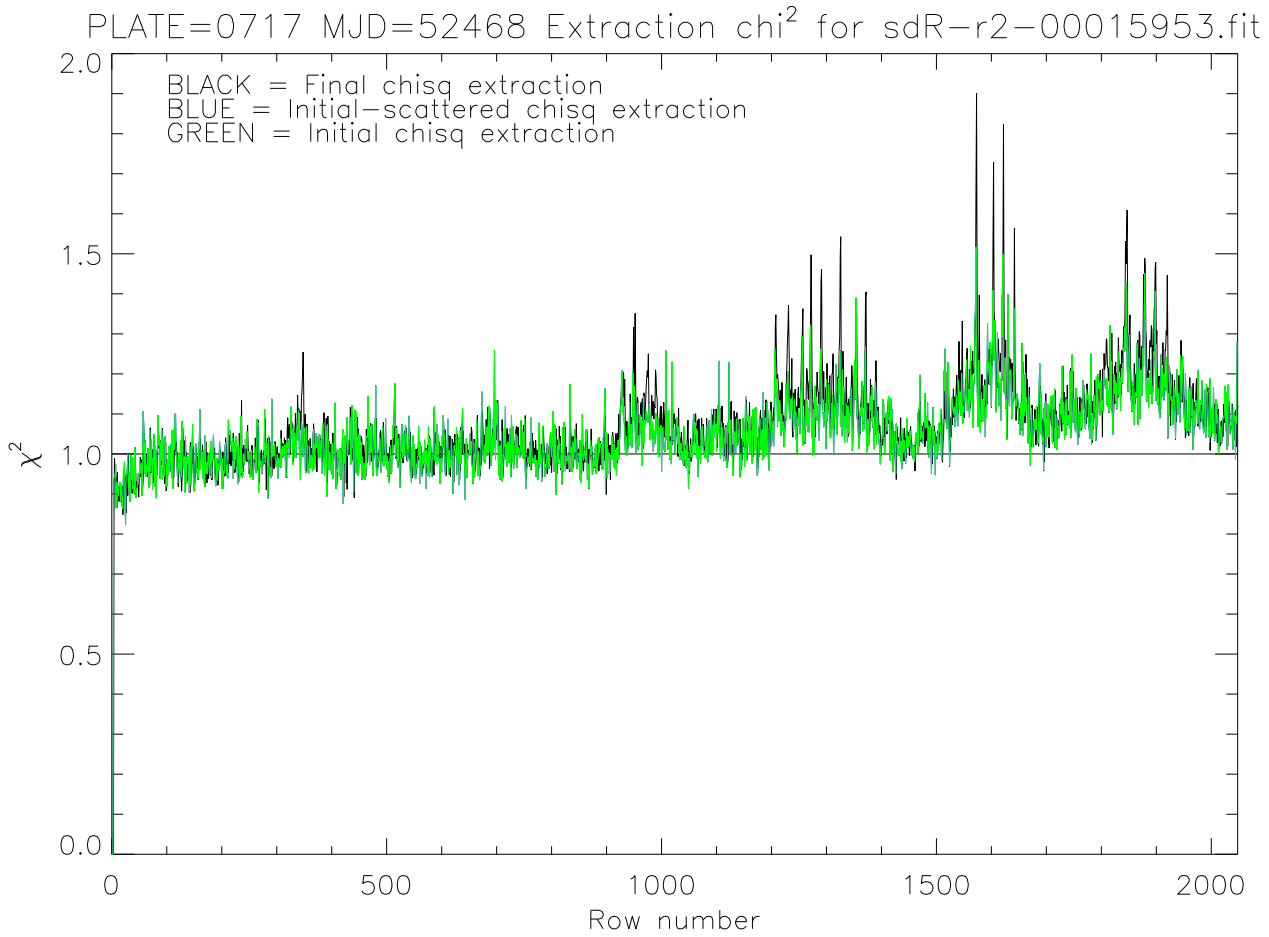

PLATE=0717 MJD=52468 Fiber−Flats for sdR−r2−00015950.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.491
Max value = 1.171
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 25 18:13:13 2008

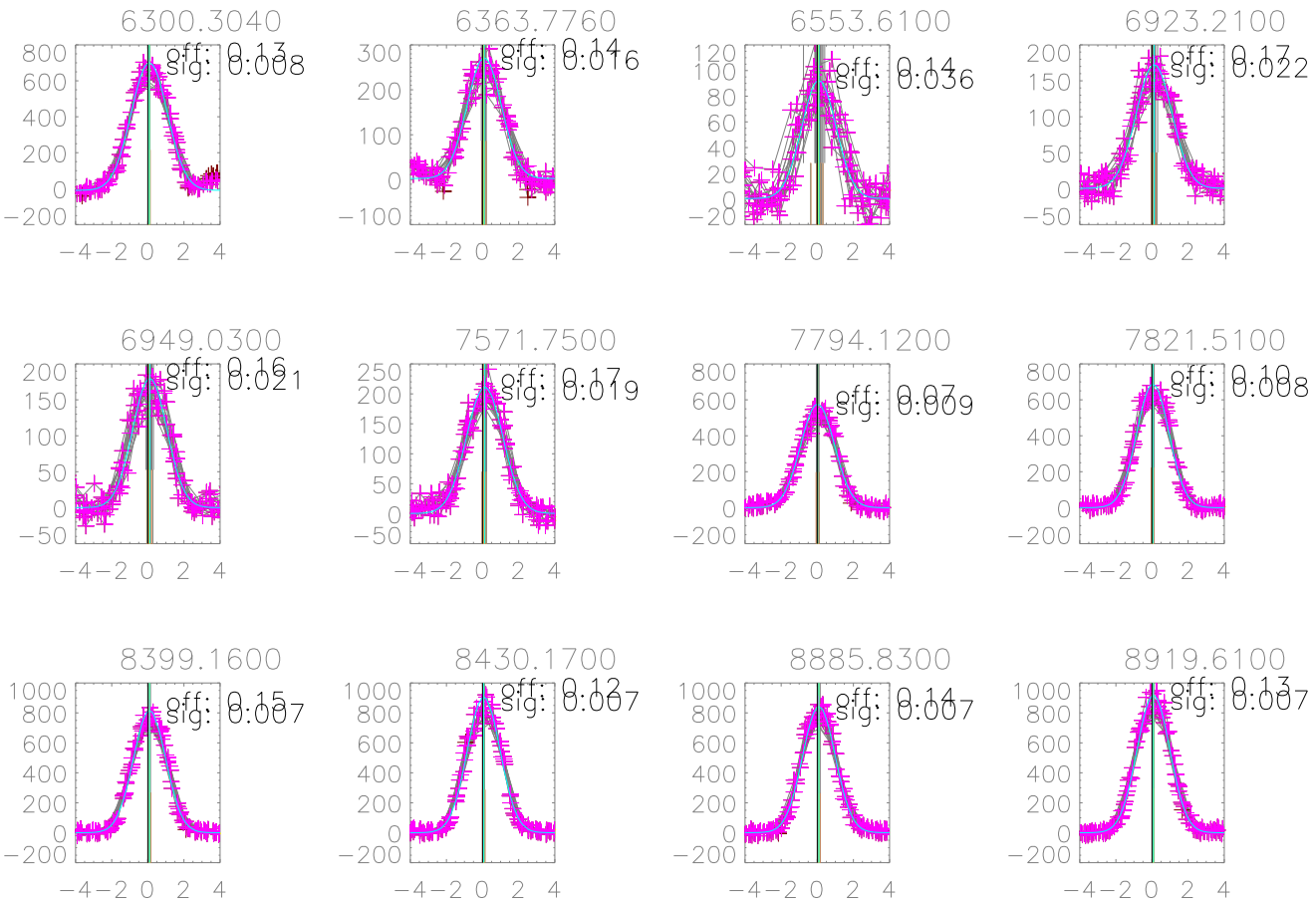

PLATE=0717 MJD=52468 Scattered Light before halo removal on sdR-r2-00015953.fi
6.4
6.4
4.5
4.5
4.5
2.7
2.7
0
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

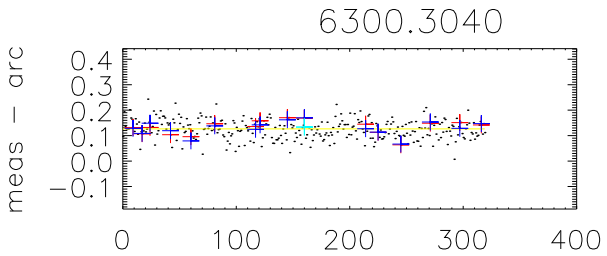

PLATE=0717 MJD=52468 Scattered Light before halo removal on sdR-r2-00015953.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 1.051
Max value = 7.467
Mon Feb 25 18:13:46 2008

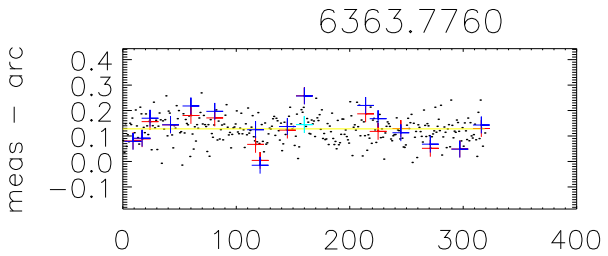

PLATE=0717 MJD=52468 Scattered Light on sdR-r2-00015953.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
1.36

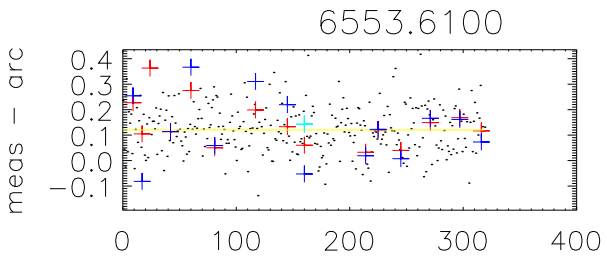

PLATE=0717 MJD=52468 Scattered Light on sdR-r2-00015953.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 0.931
Max value = 2.109
Mon Feb 25 18:15:47 2008

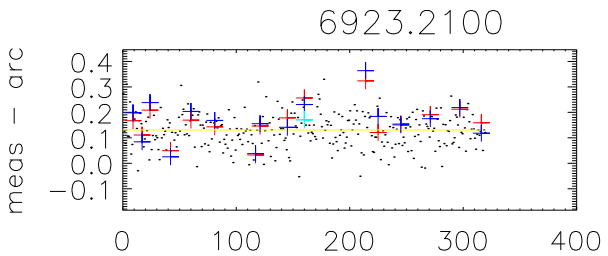

PLATE=0717 MJD=52468 Extraction chi^2 for sdR−r2−00015953.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

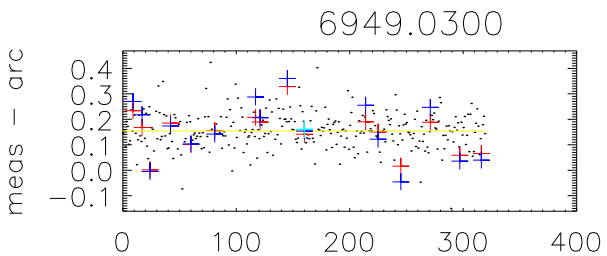

6300.3040
off: 0.13
sig: 0.008
6363.7760
off: 0.14
sig: 0.016
6553.6100
off: 0.14
sig: 0.036
6923.2100
off: 0.17
sig: 0.022
6949.0300
off: 0.16
sig: 0.021
7571.7500
off: 0.17
sig: 0.019
7794.1200
off: 0.07
sig: 0.009
7821.5100
off: 0.10
sig: 0.008
8399.1600
off: 0.15
sig: 0.007
8430.1700
off: 0.12
sig: 0.007
8885.8300
off: 0.14
sig: 0.007
8919.6100
off: 0.13
sig: 0.007

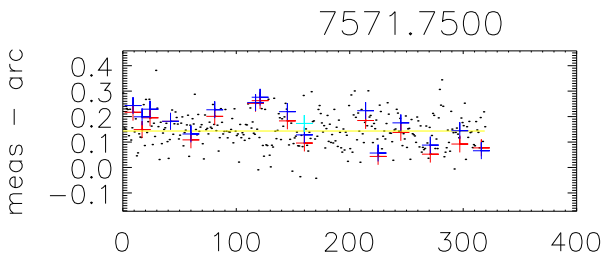

6300.3040
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

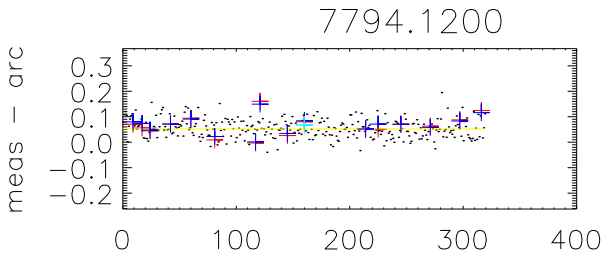

6363.7760
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

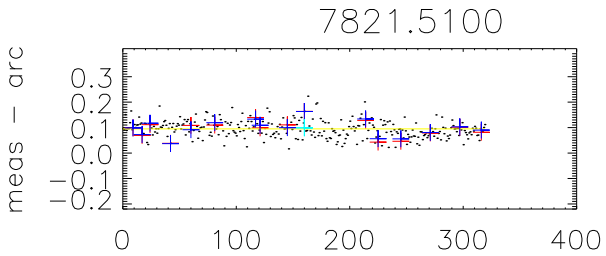

6553.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

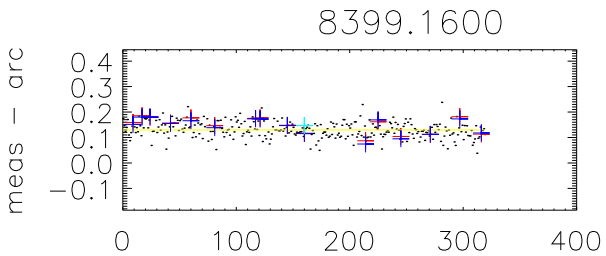

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

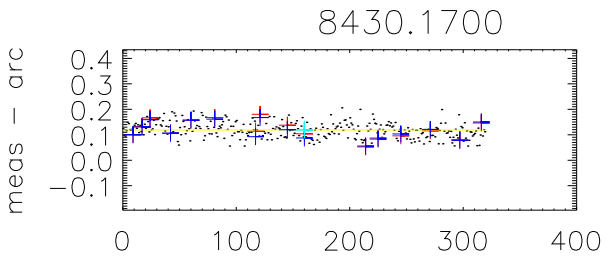

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

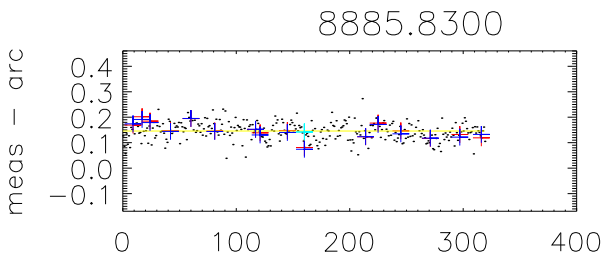

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

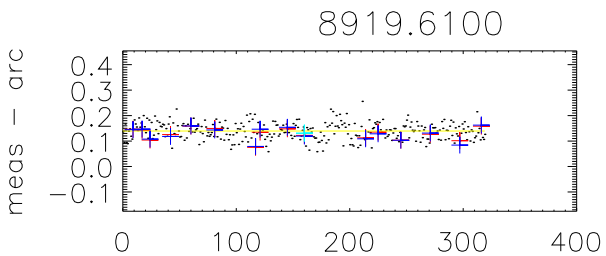

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

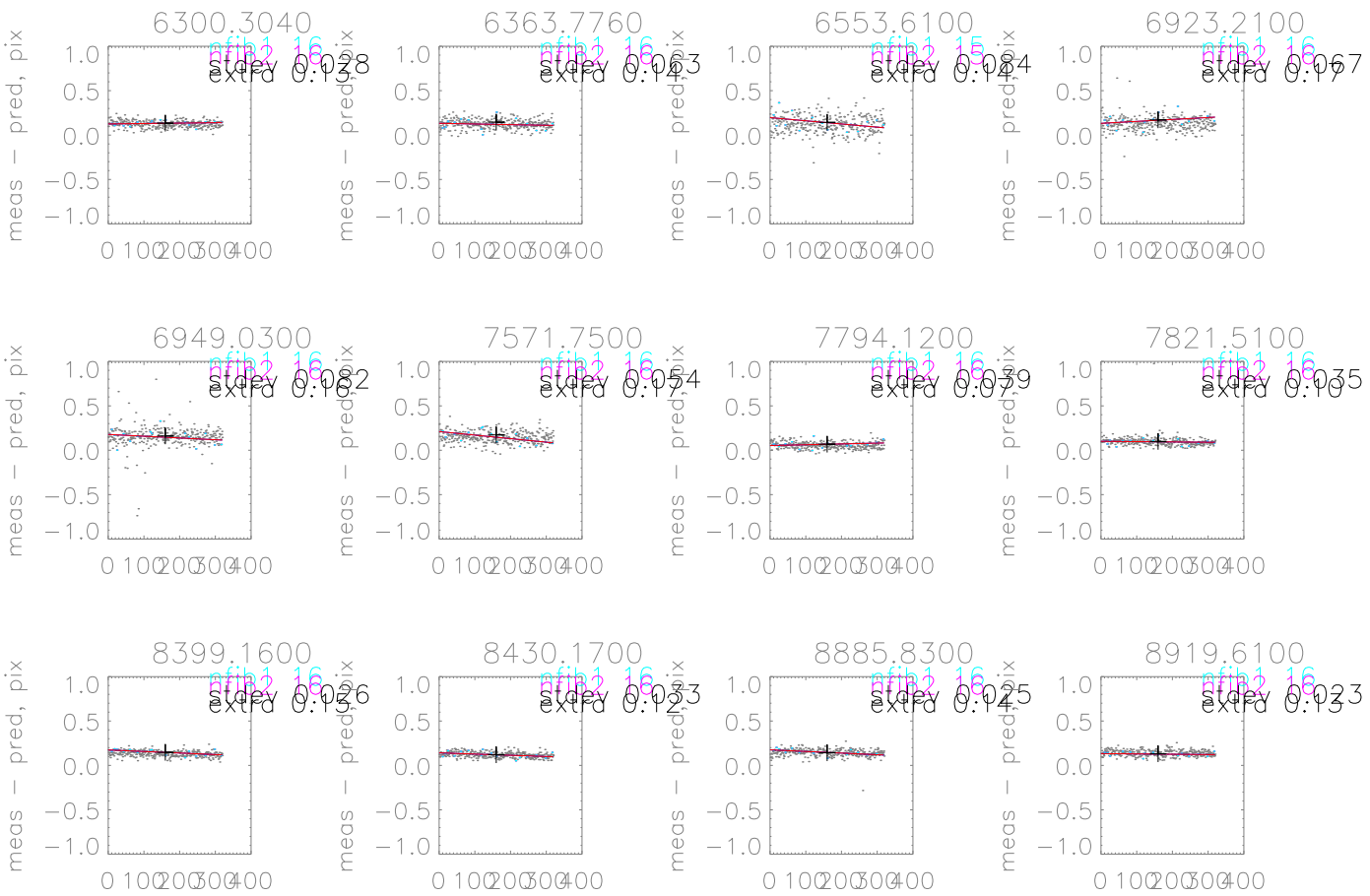

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

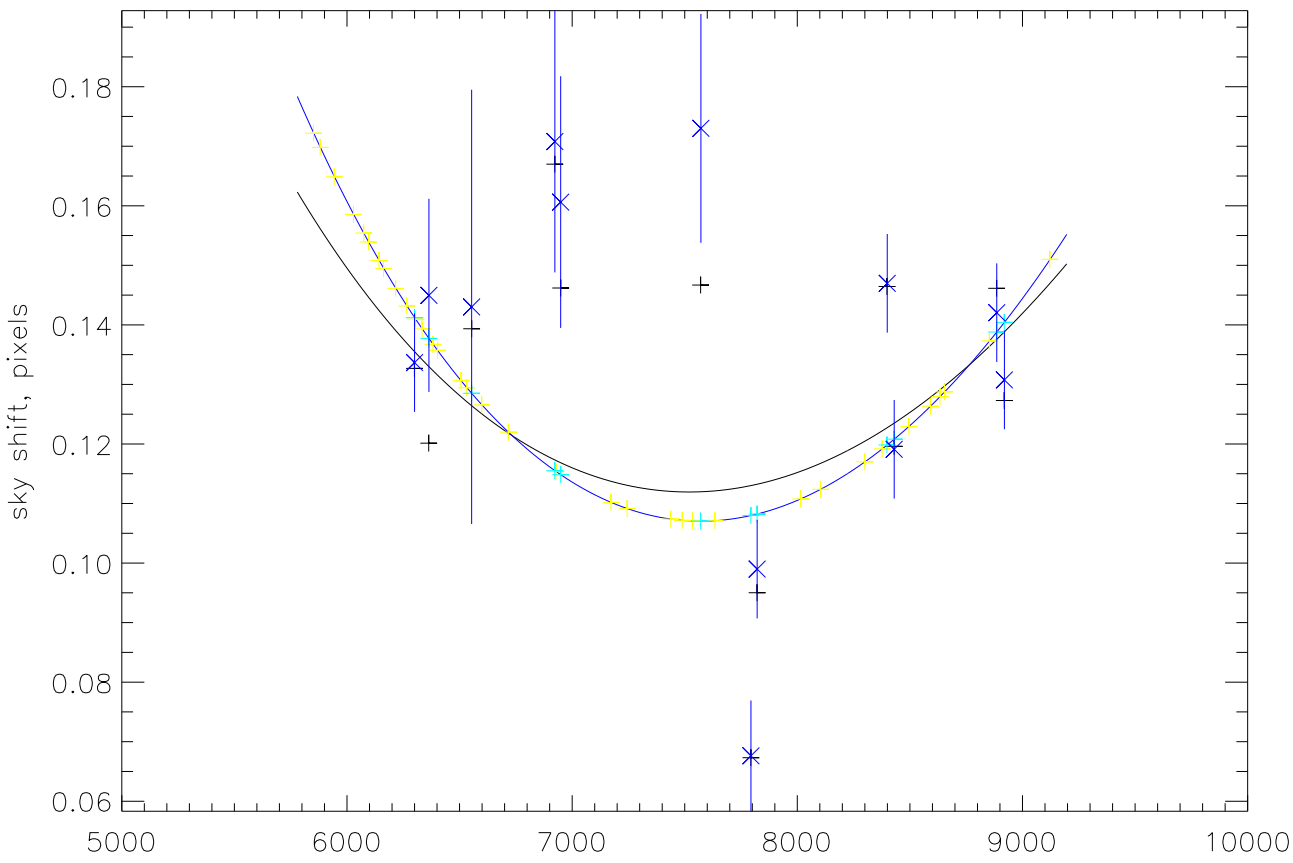

8399.1600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

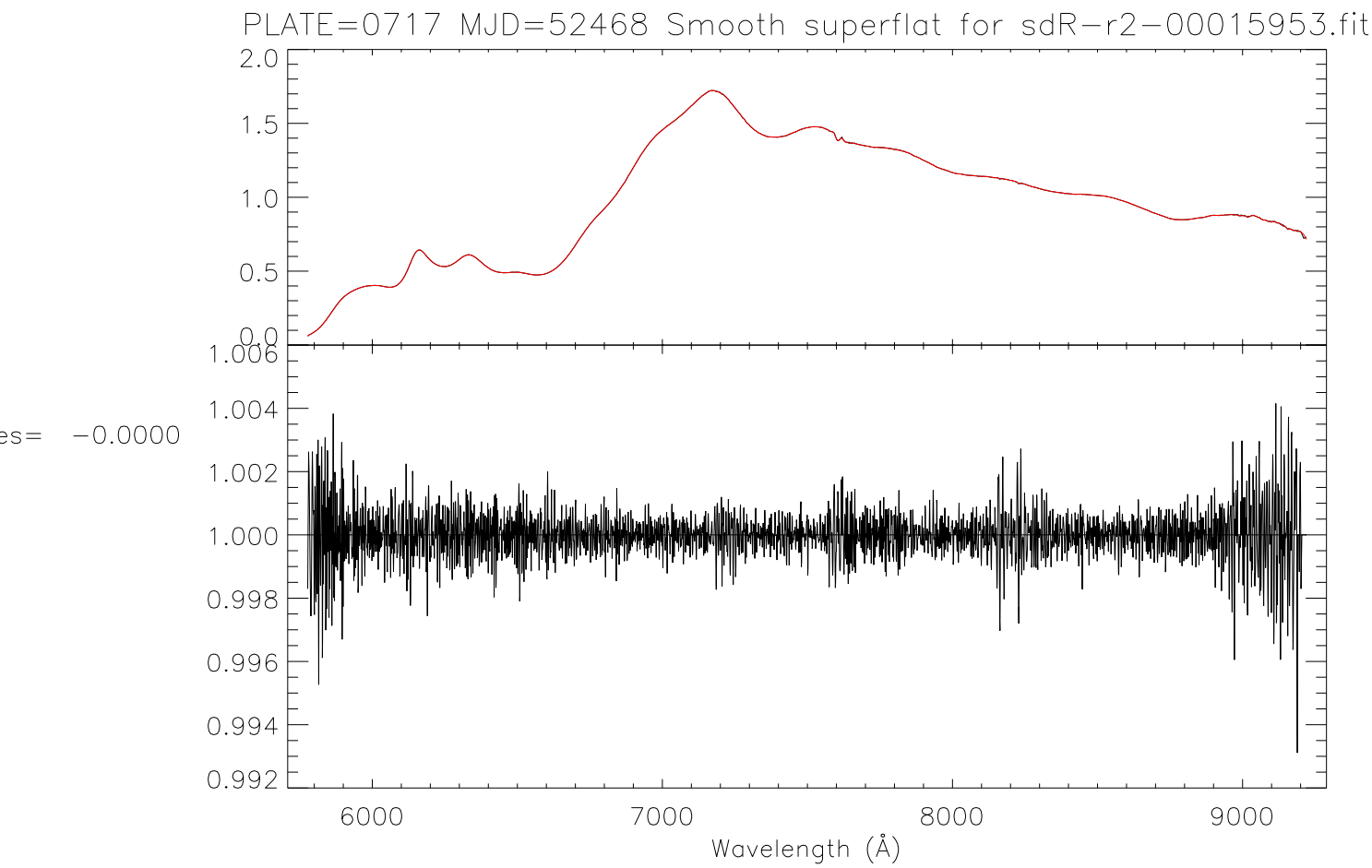

8430.1700
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

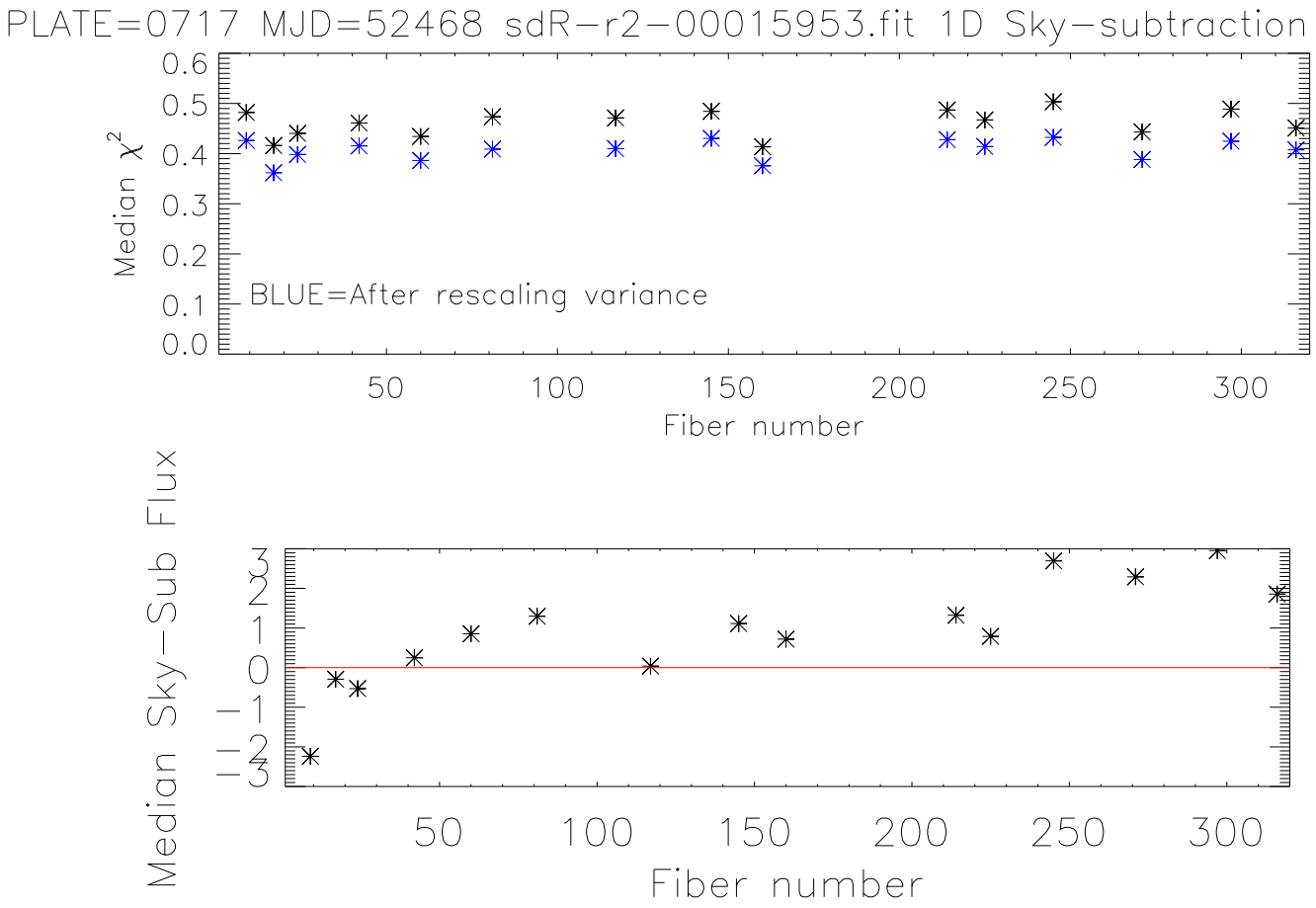

8919.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

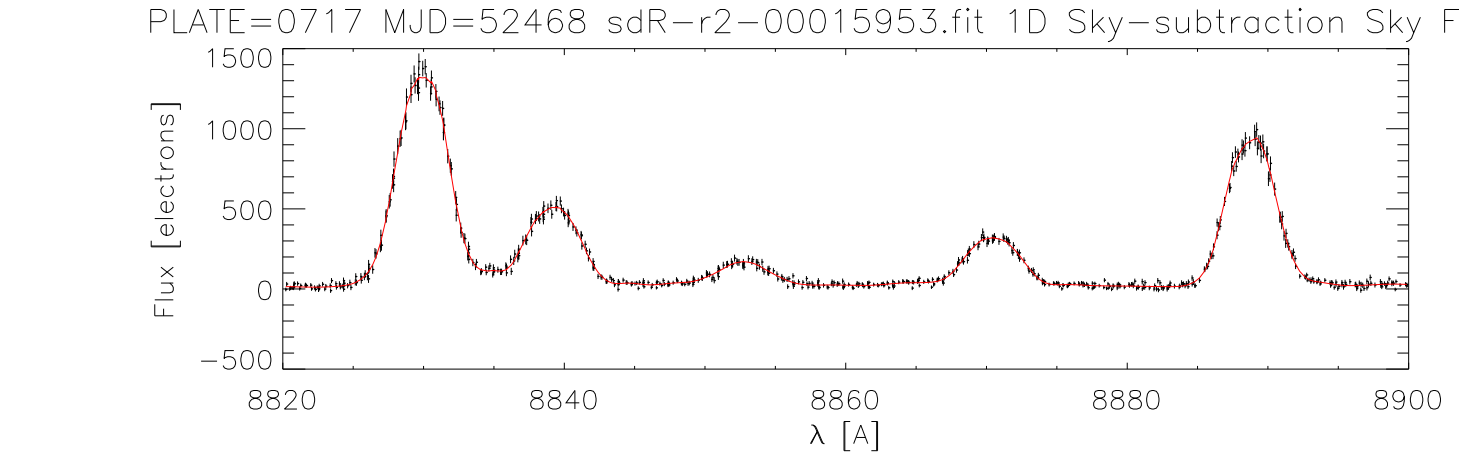

6300.3040
stdev 0.028
extra 0.13
6363.7760
stdev 0.063
extra 0.14
6553.6100
stdev 0.084
extra 0.14
6923.2100
stdev 0.067
extra 0.17
6949.0300
stdev 0.082
extra 0.16
7571.7500
stdev 0.054
extra 0.17
7794.1200
stdev 0.079
extra 0.07
7821.5100
stdev 0.035
extra 0.10
8399.1600
stdev 0.026
extra 0.13
8430.1700
stdev 0.033
extra 0.12
8885.8300
stdev 0.025
extra 0.14
8919.6100
stdev 0.023
extra 0.13
meas − pred, pix

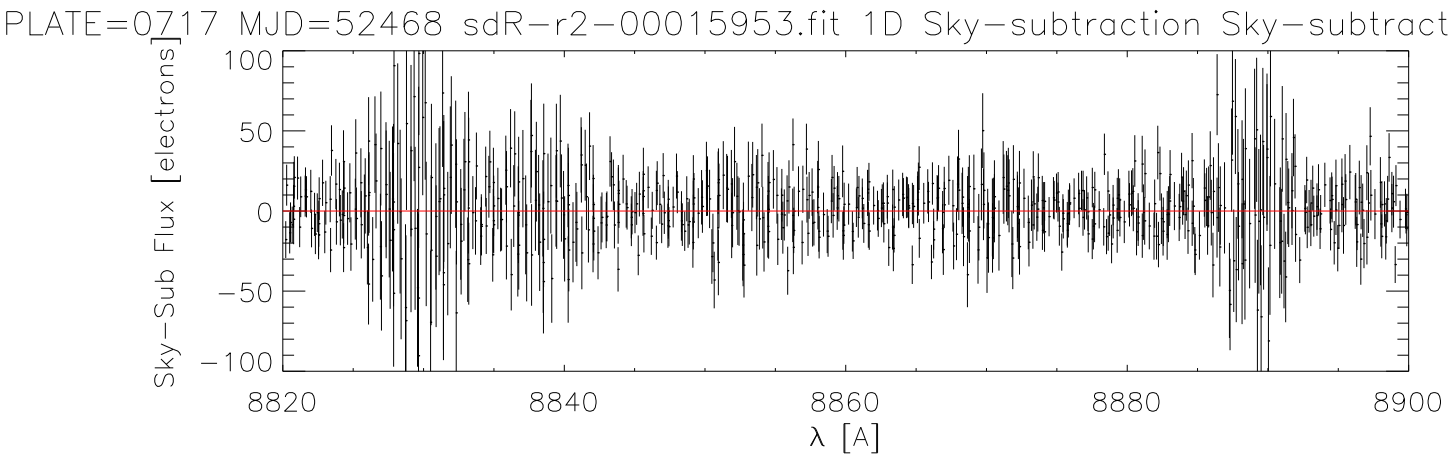

sky shift, pixels
0.18
0.16
0.14
0.12
0.10
0.08
0.06
5000
6000
7000
8000
9000
10000

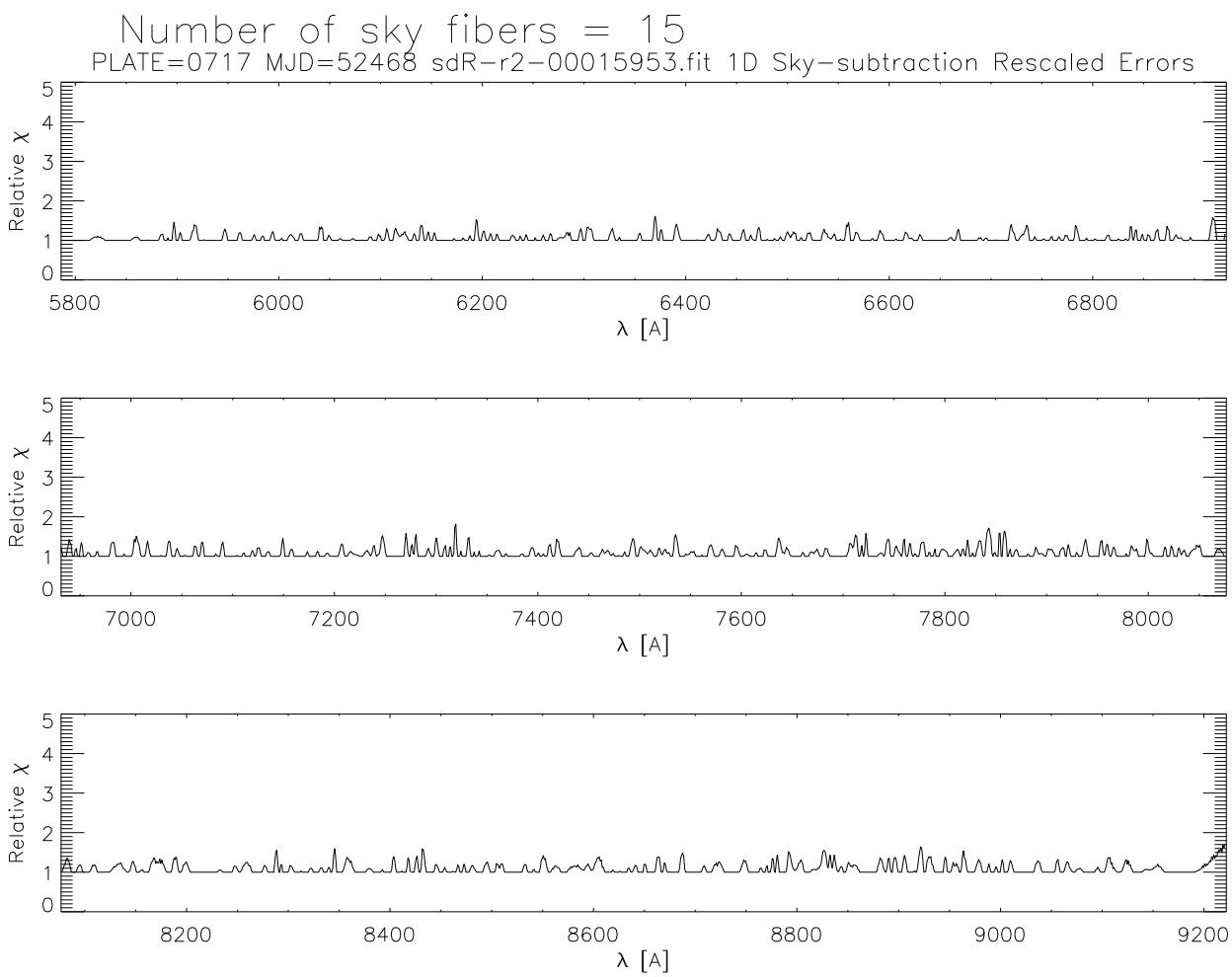

PLATE=0717 MJD=52468 Smooth superflat for sdR-r2-00015953.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
6000
7000
8000
9000
Wavelength (Å)

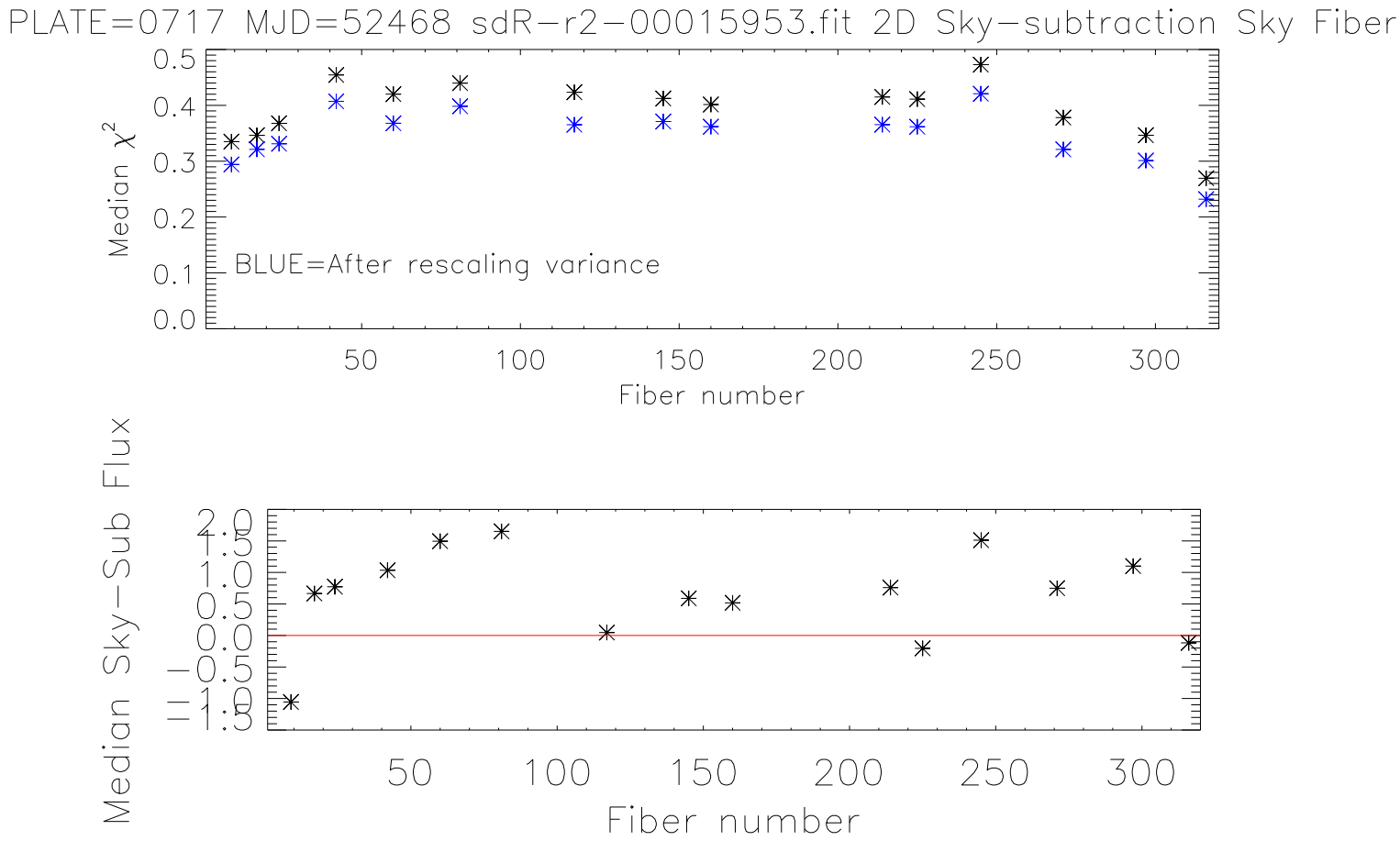
es= −0.0000

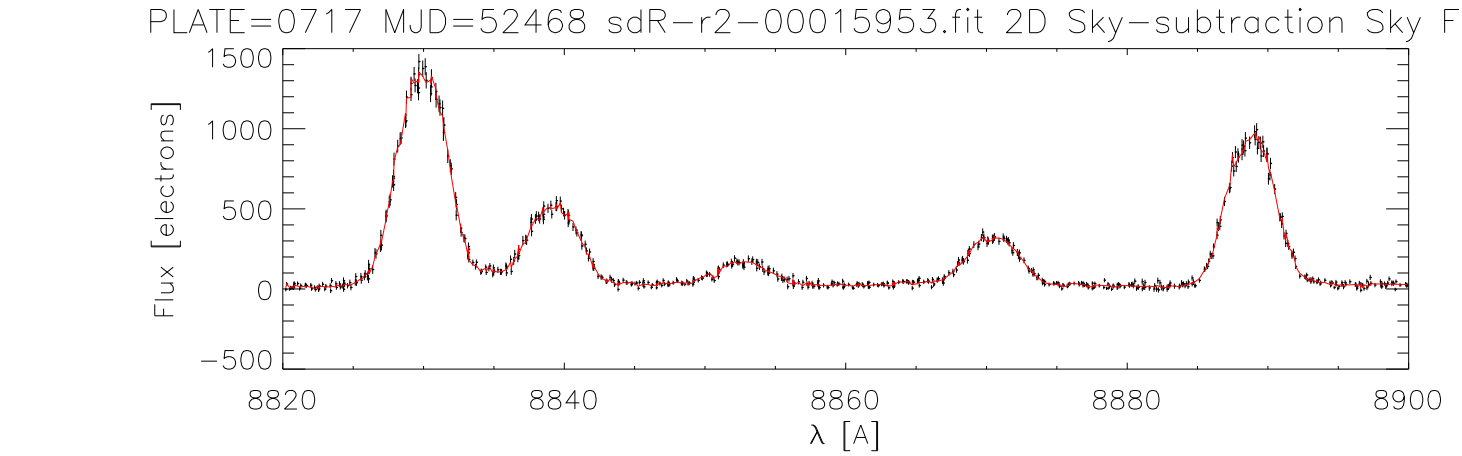

PLATE=0717 MJD=52468 sdR-r2-00015953.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

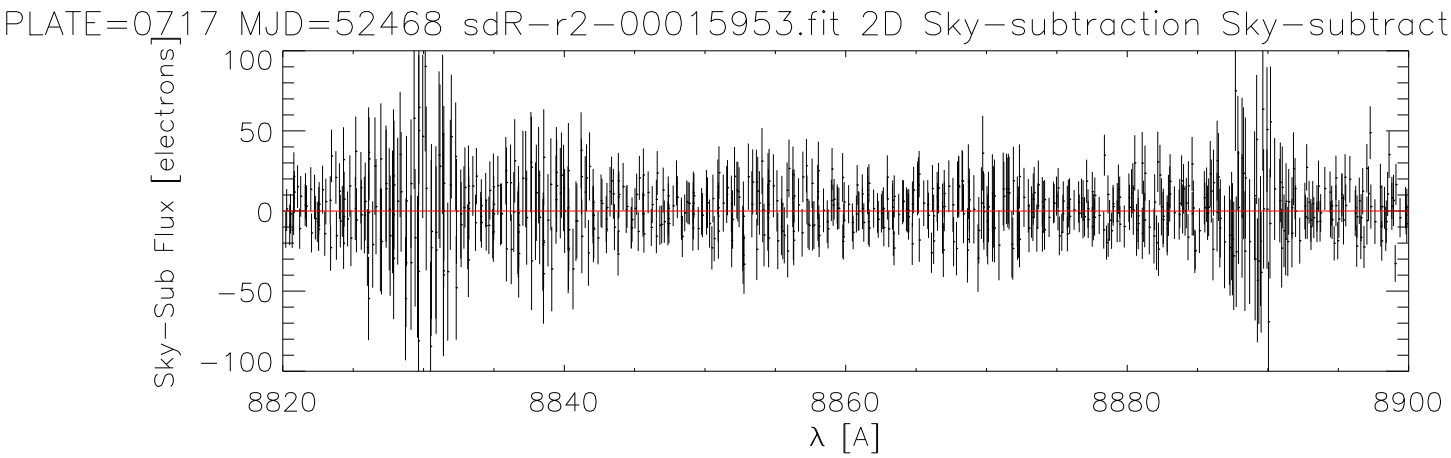

PLATE=0717 MJD=52468 sdR-r2-00015953.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

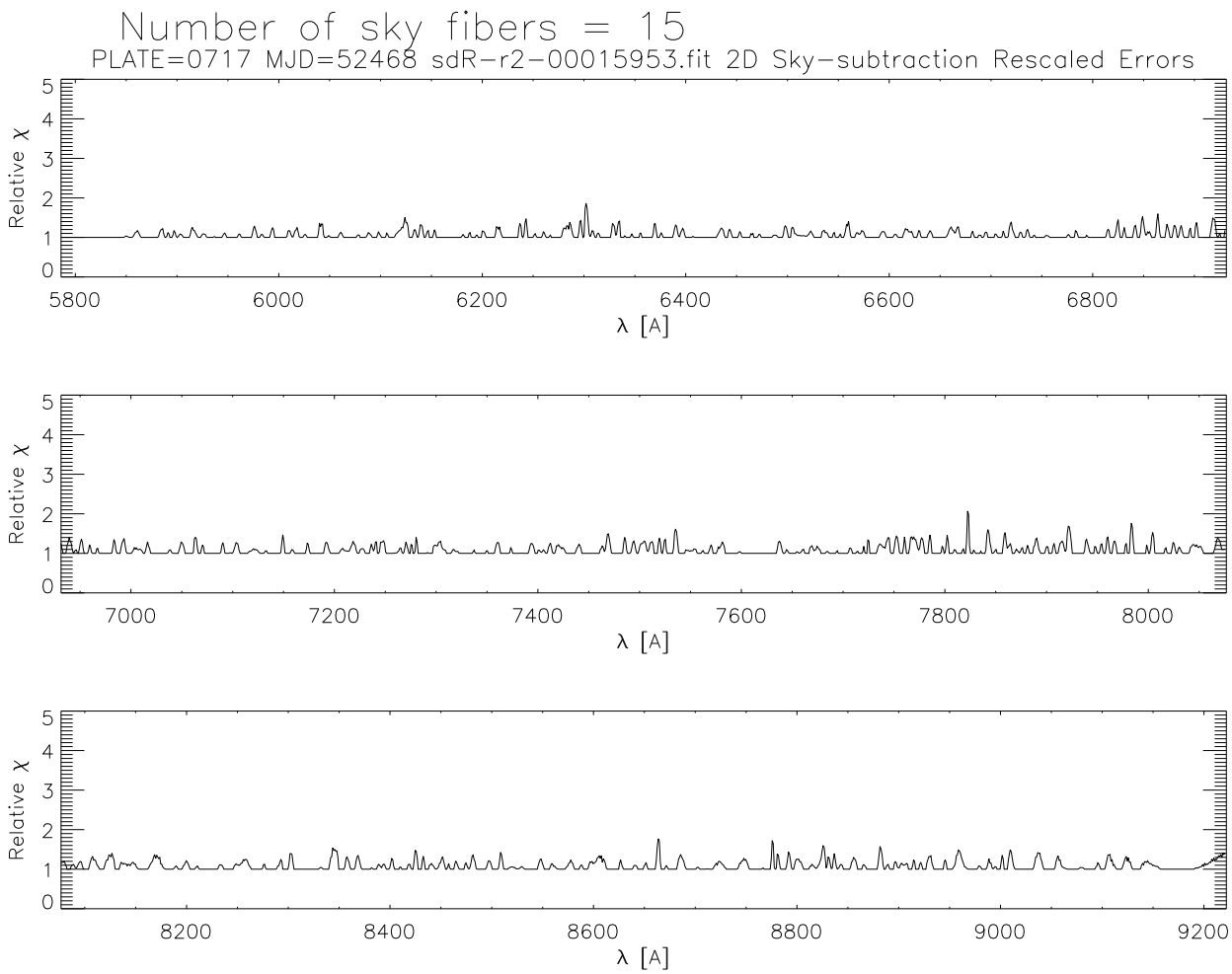

PLATE=0717 MJD=52468 sdR-r2-00015953.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
8820
8840
8860
8880
8900
λ [A]

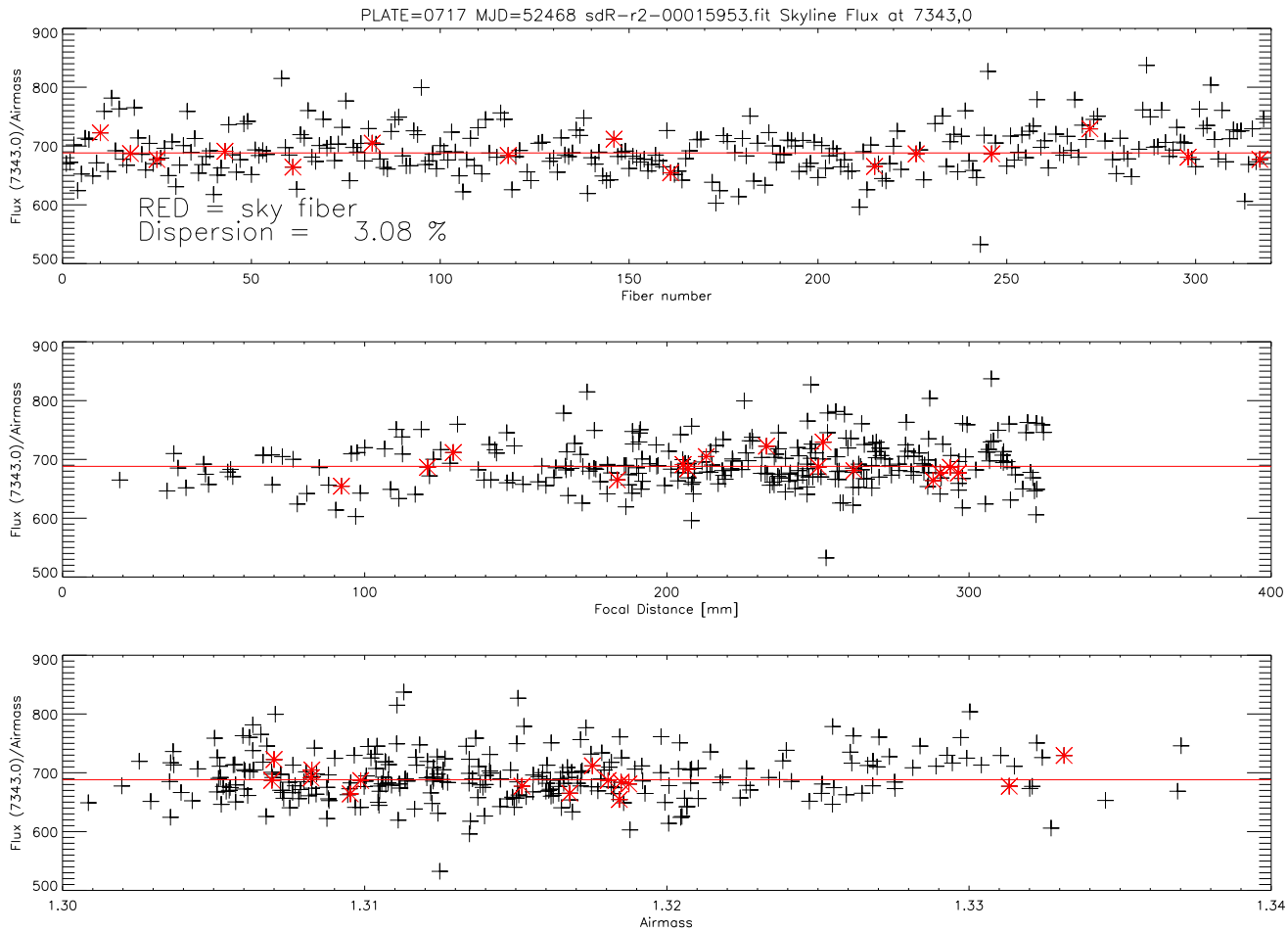

Number of sky fibers = 15
PLATE=0717 MJD=52468 sdR-r2-00015953.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

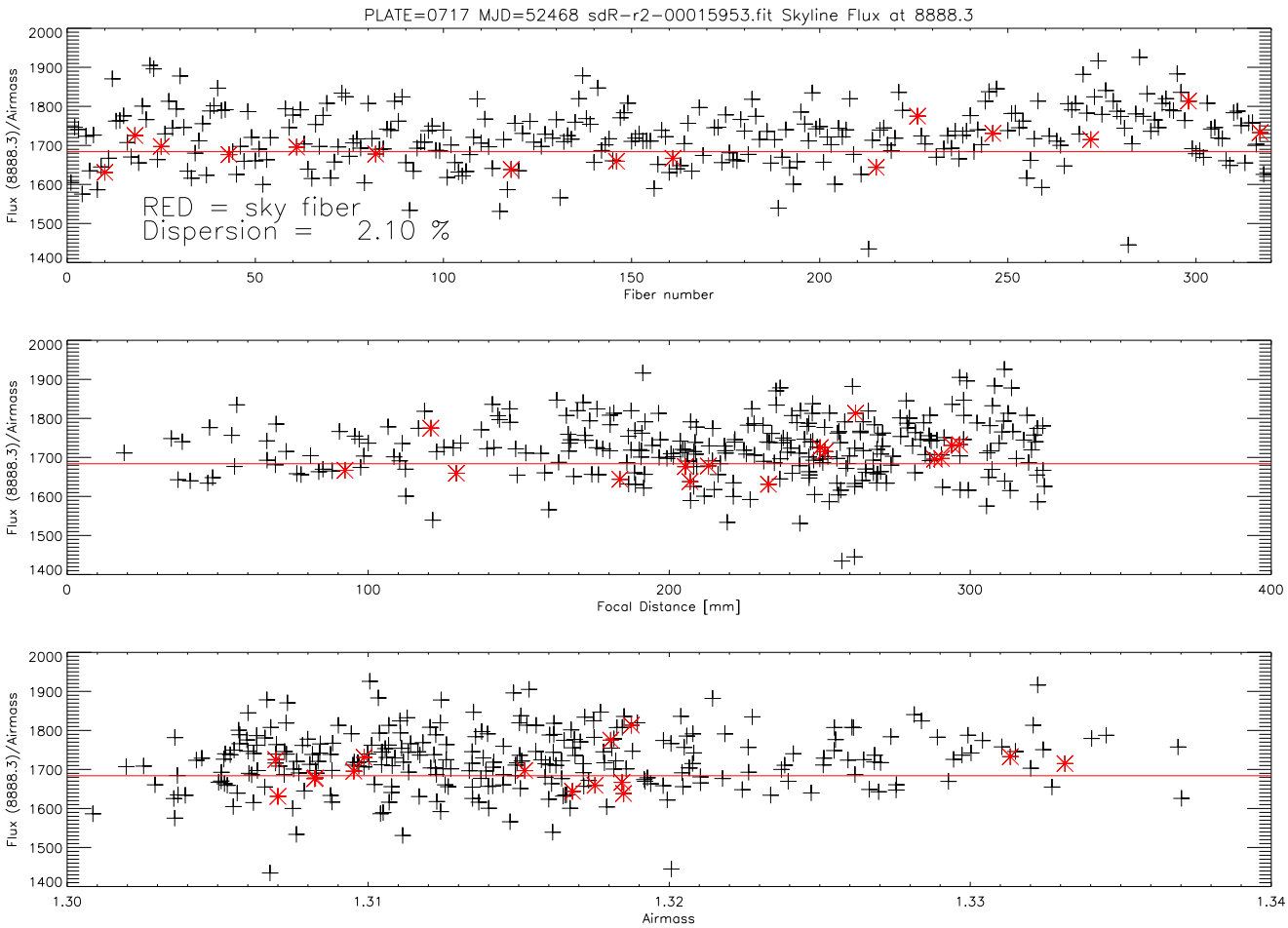

PLATE=0717 MJD=52468 sdR-r2-00015953.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number


PLATE=0717 MJD=52468 sdR-r2-00015953.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]


PLATE=0717 MJD=52468 sdR-r2-00015953.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
8820
8840
8860
8880
8900
λ [A]


Number of sky fibers = 15
PLATE=0717 MJD=52468 sdR-r2-00015953.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=0717 MJD=52468 sdR-r2-00015953.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.08 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass


PLATE=0717 MJD=52468 sdR-r2-00015953.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.10 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass