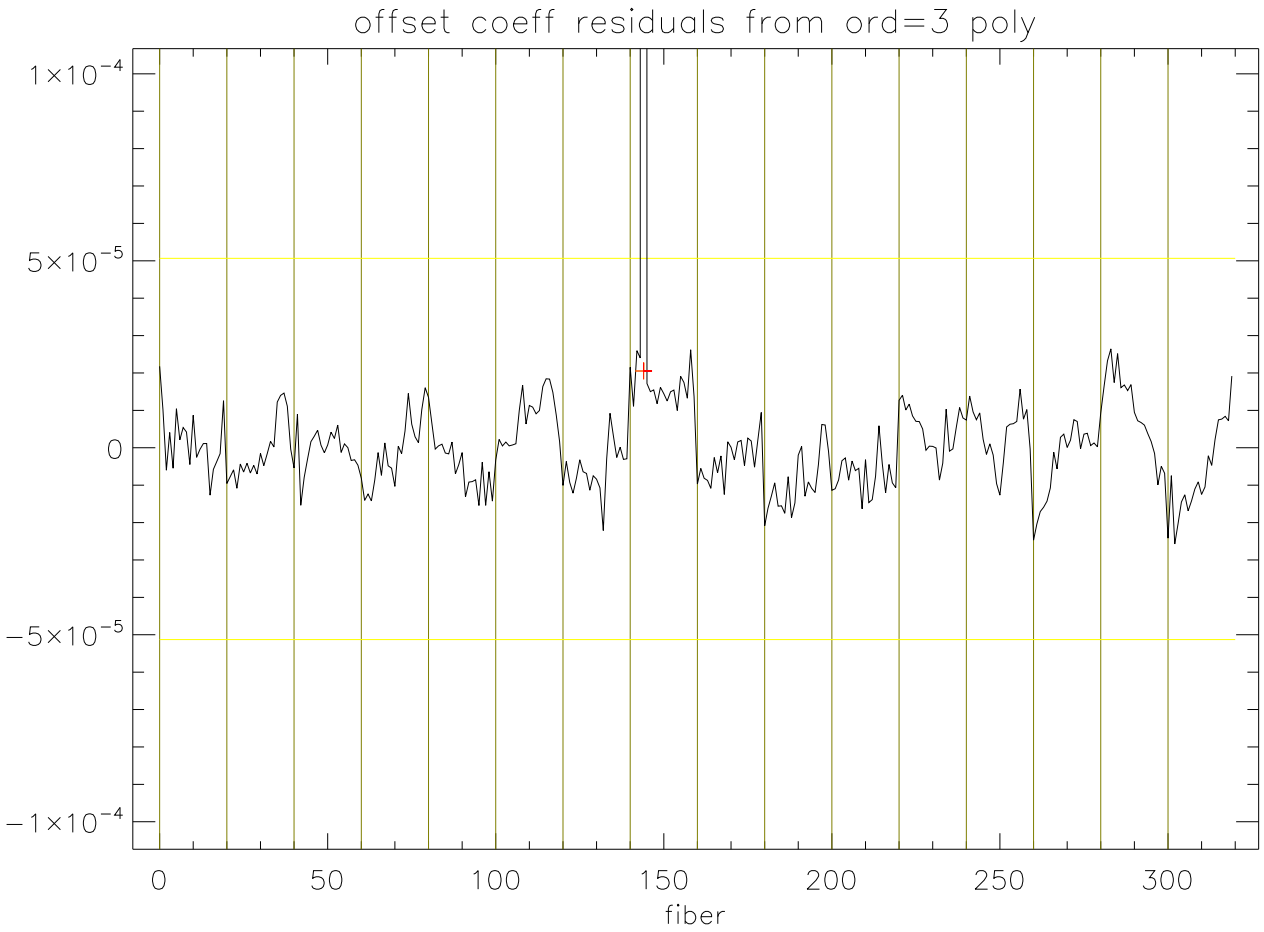
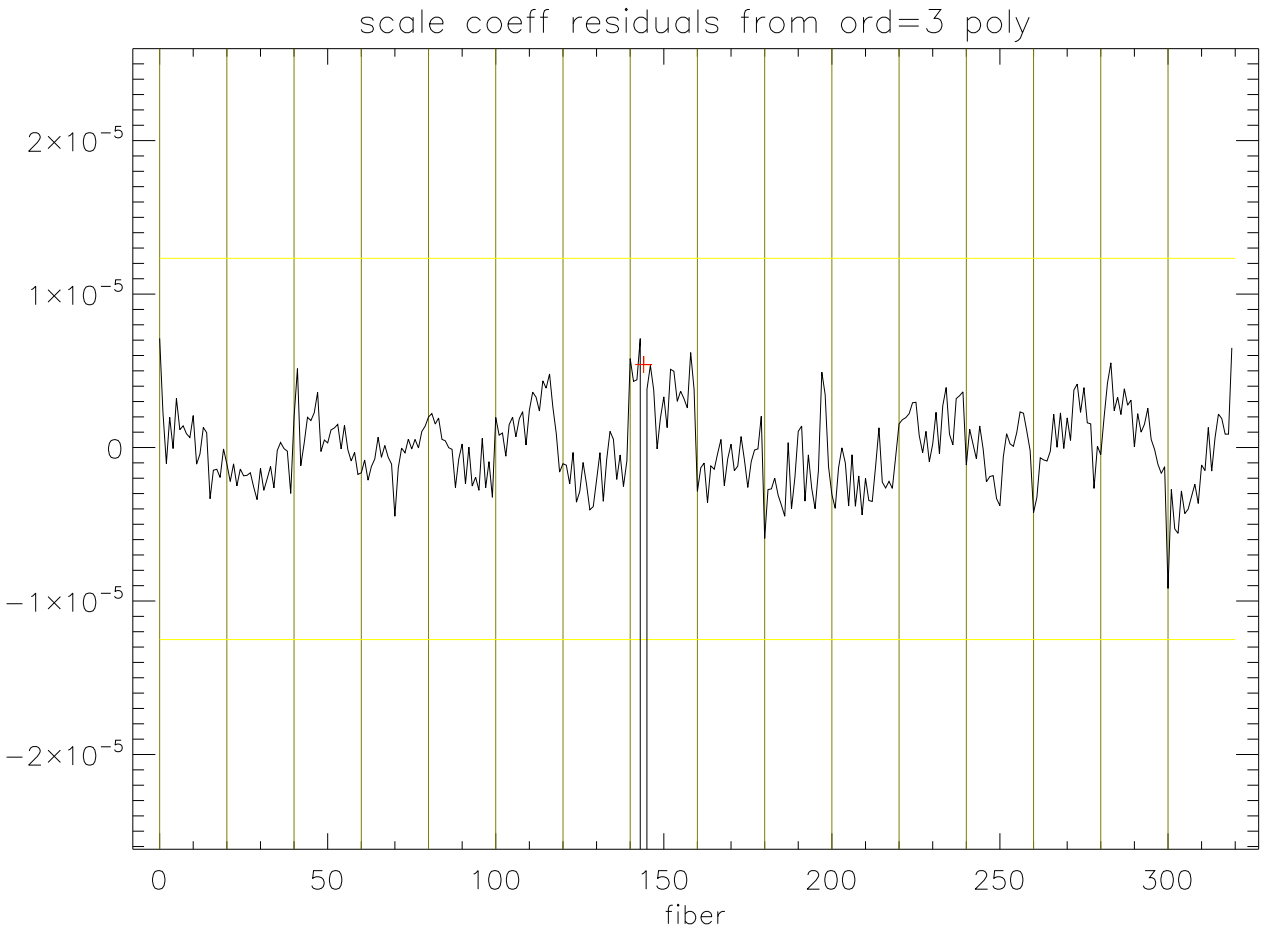
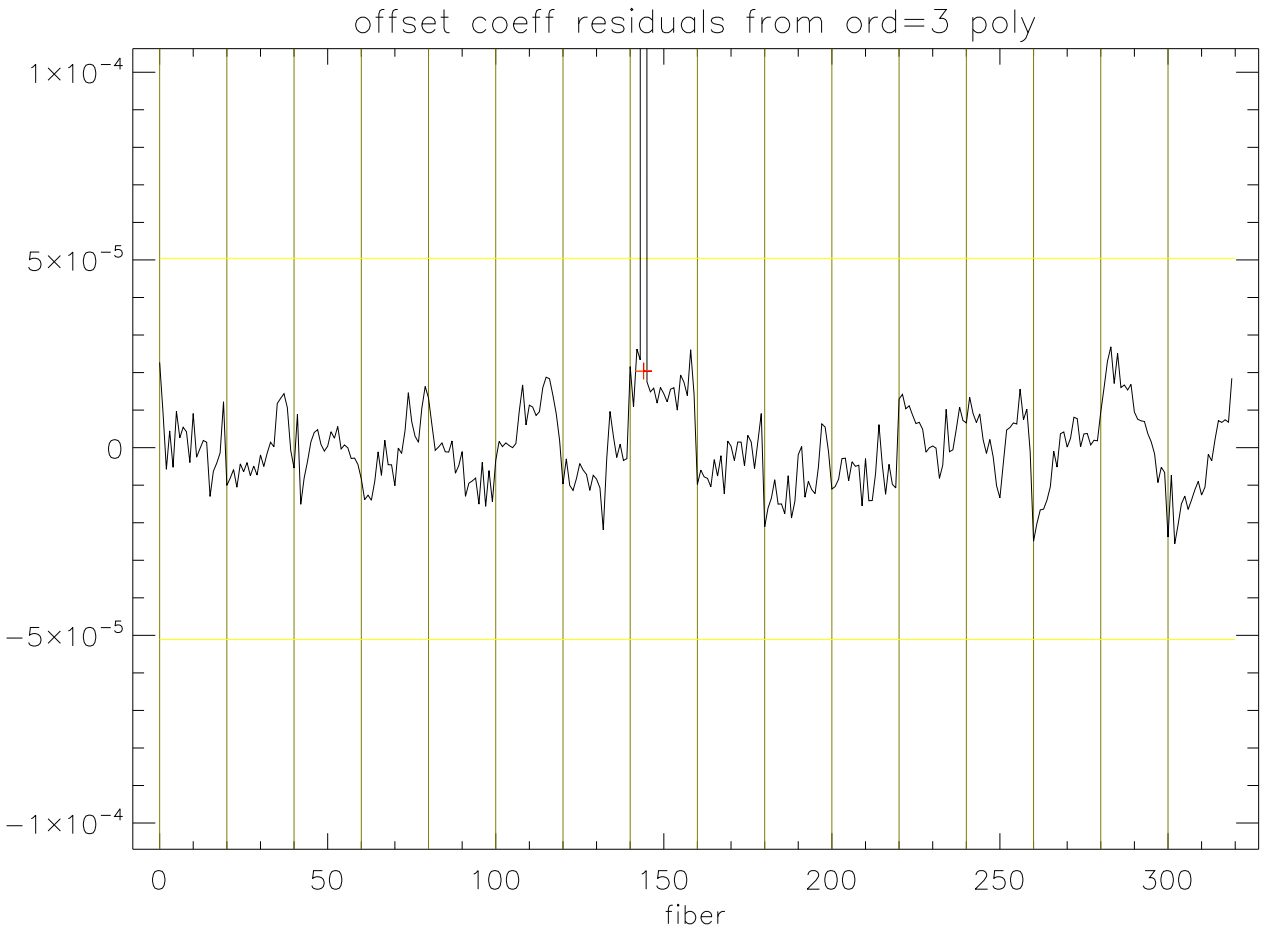
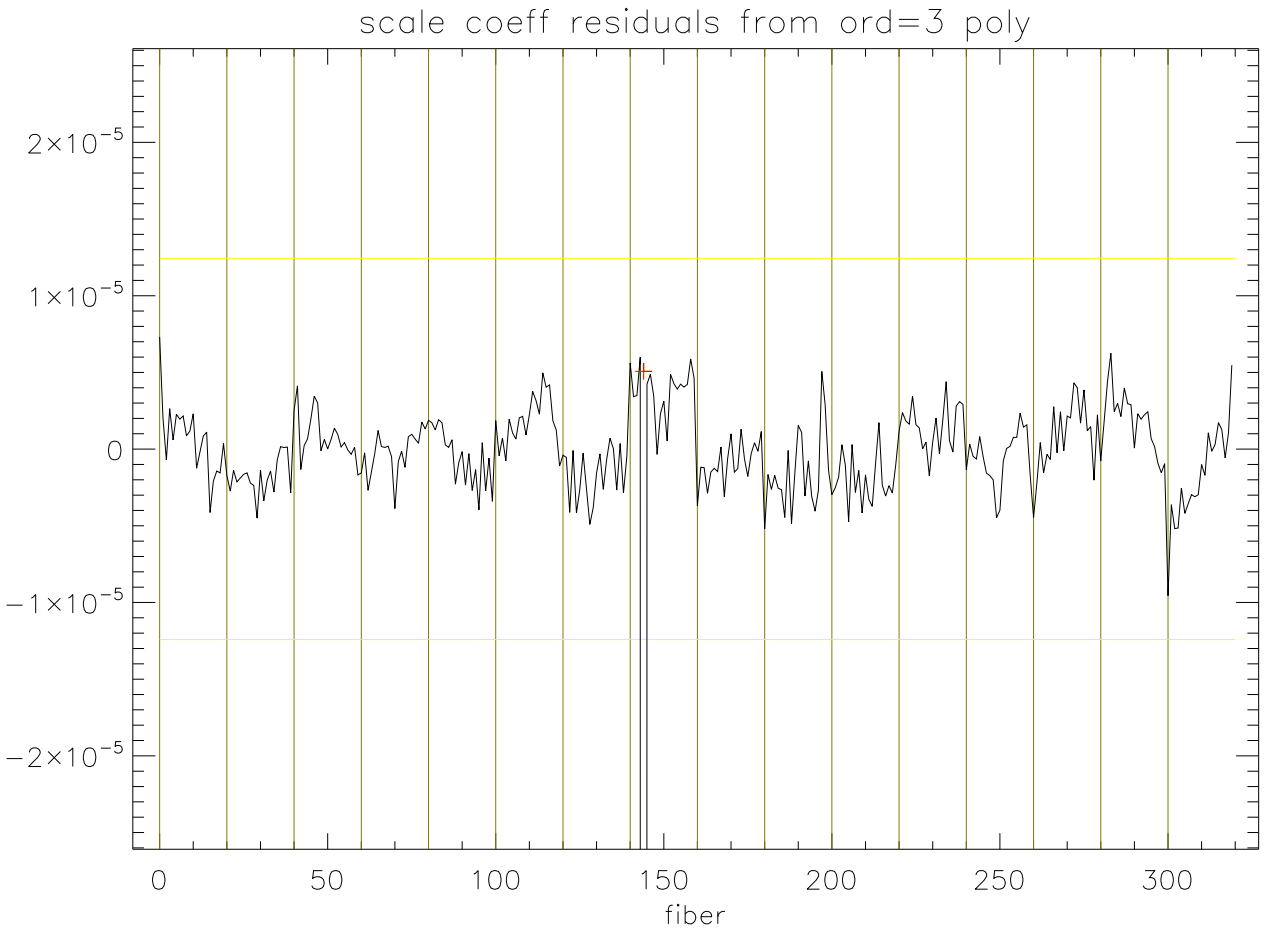
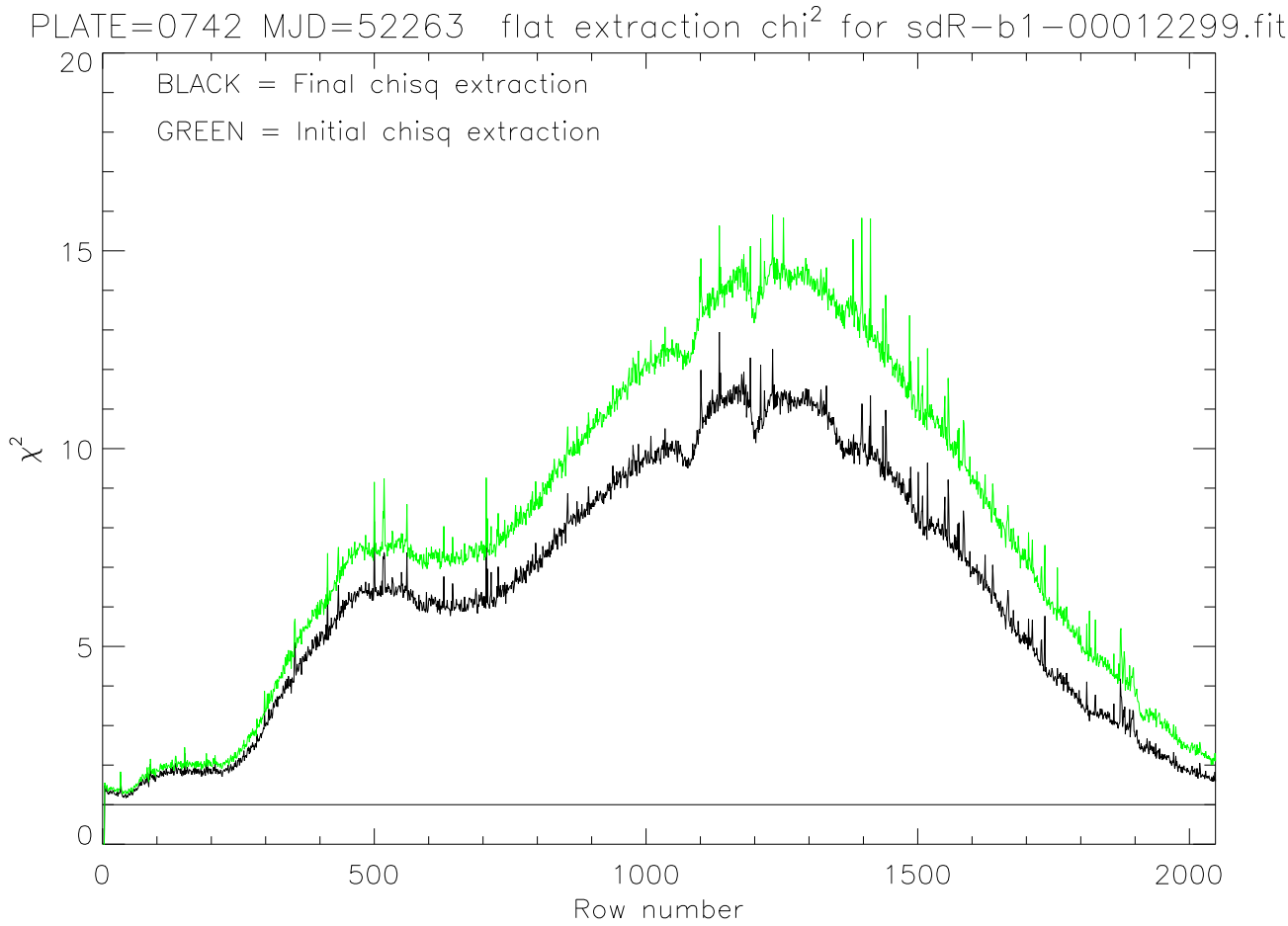
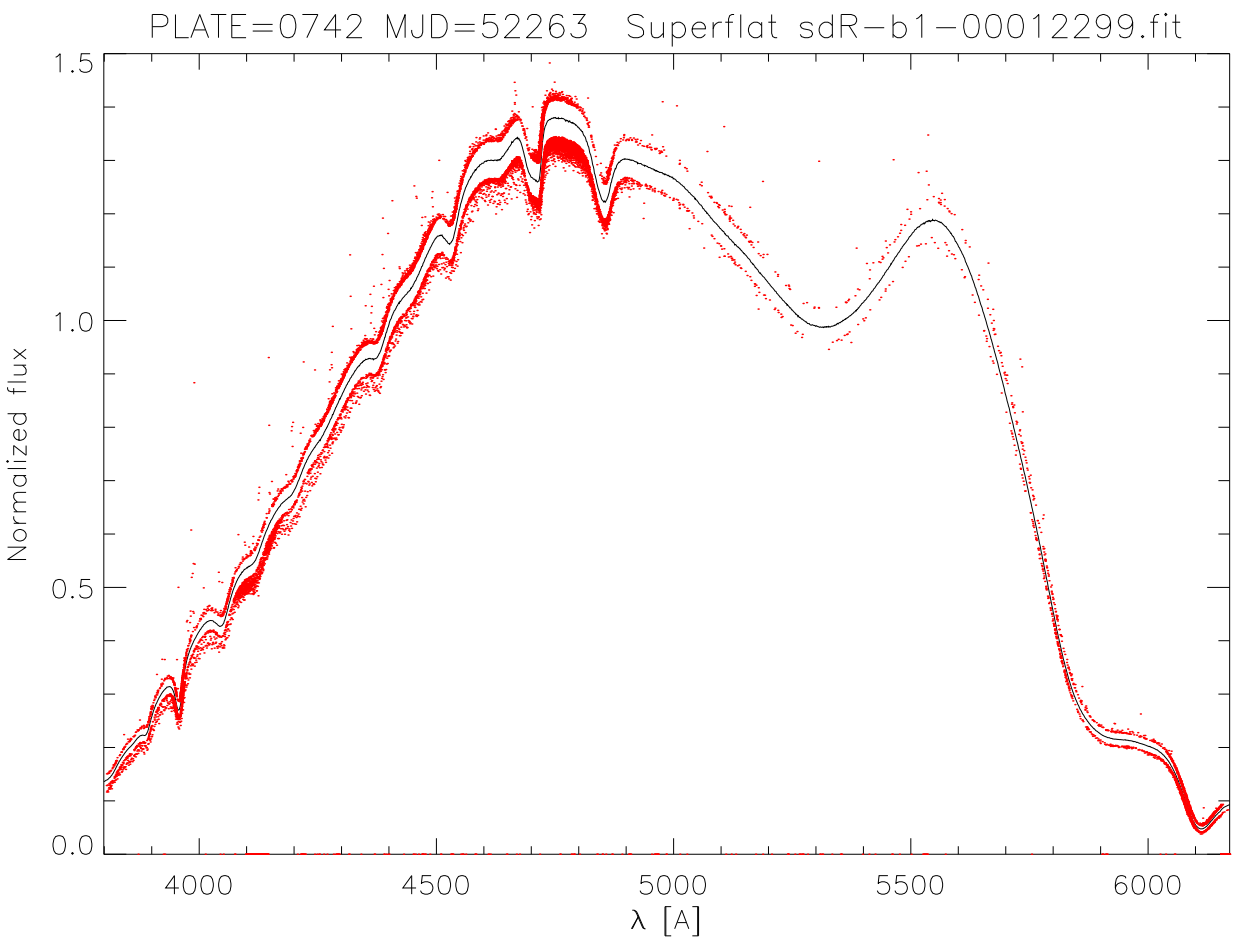

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

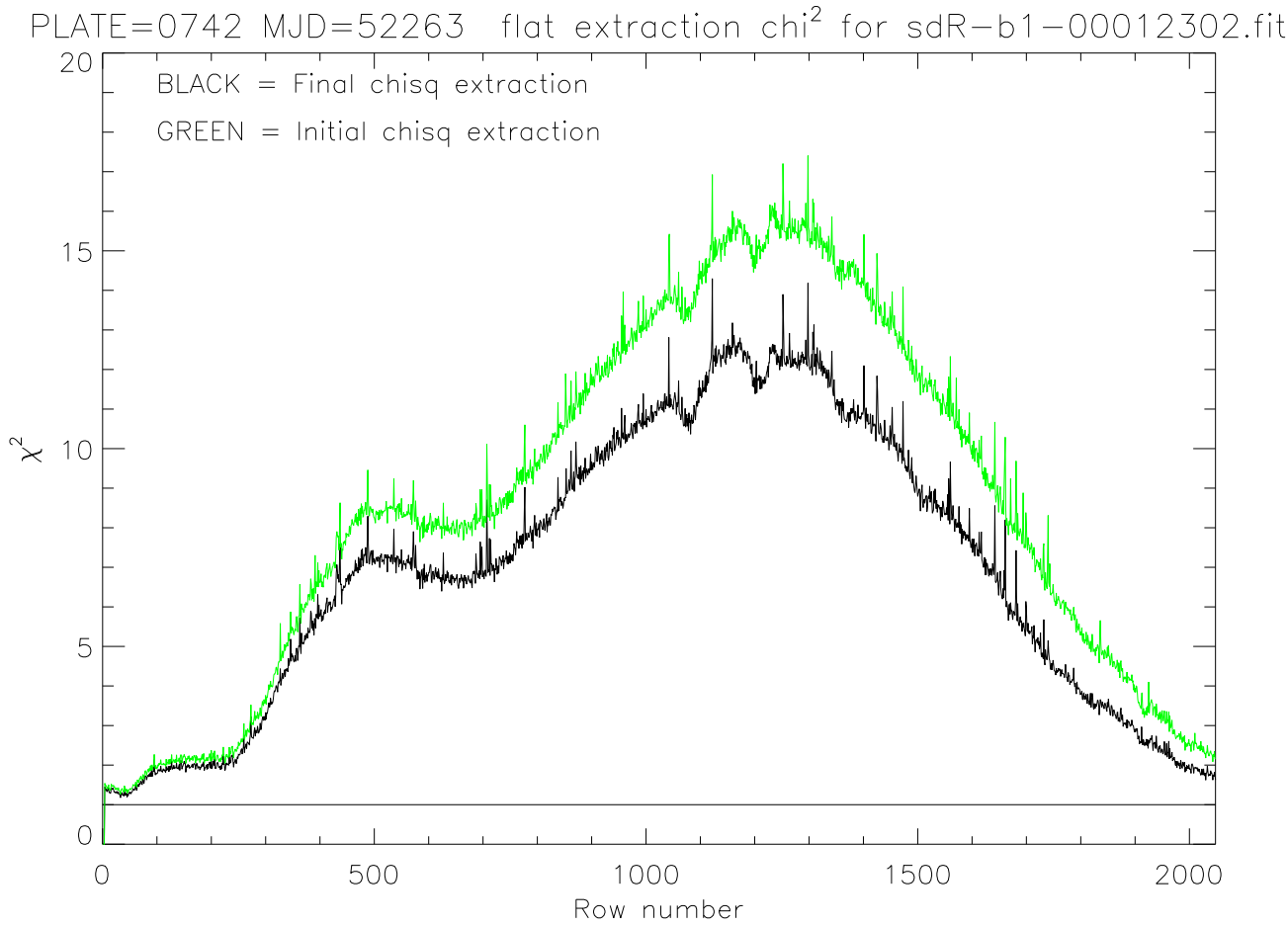

scale coeff residuals from ord=3 poly
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

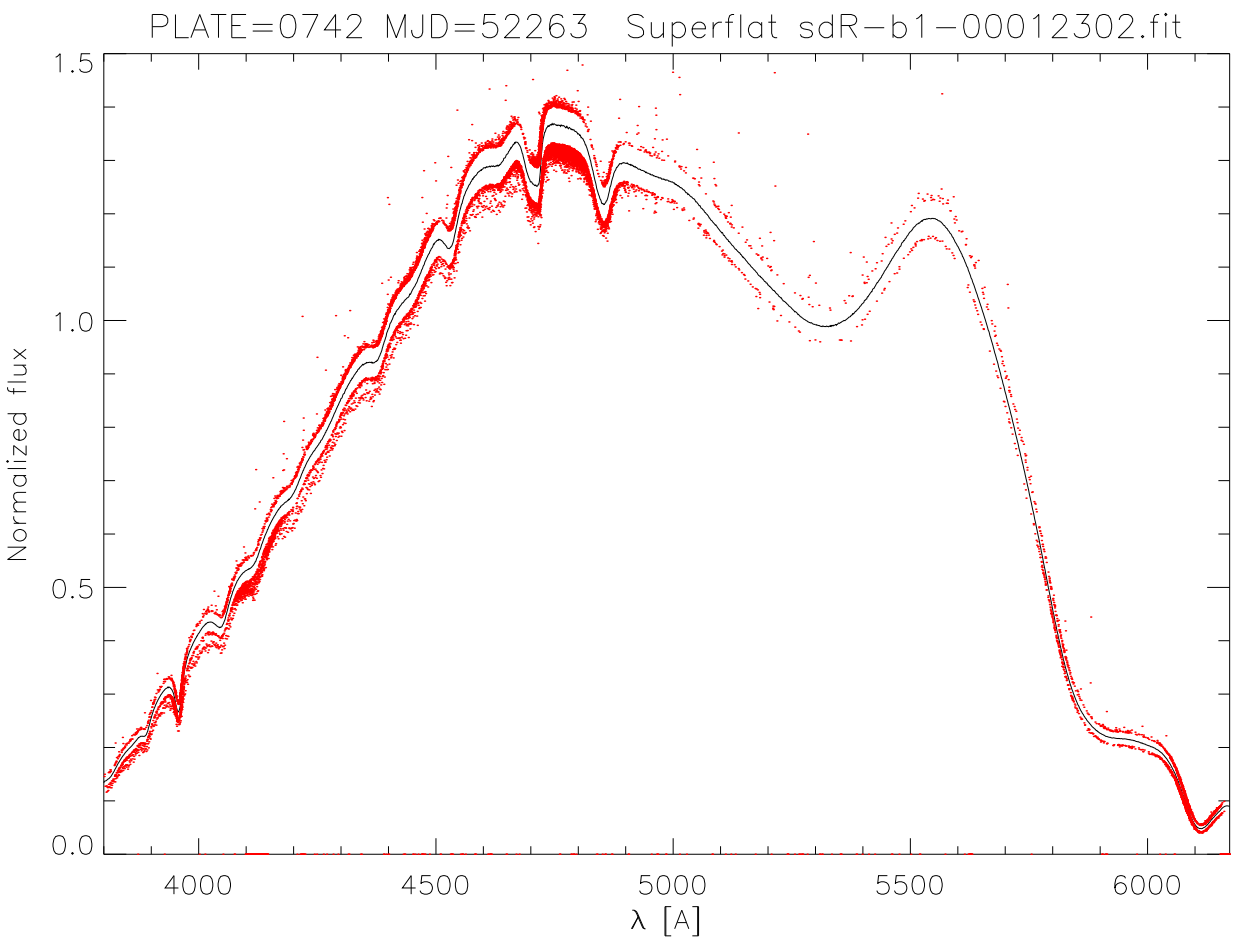

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

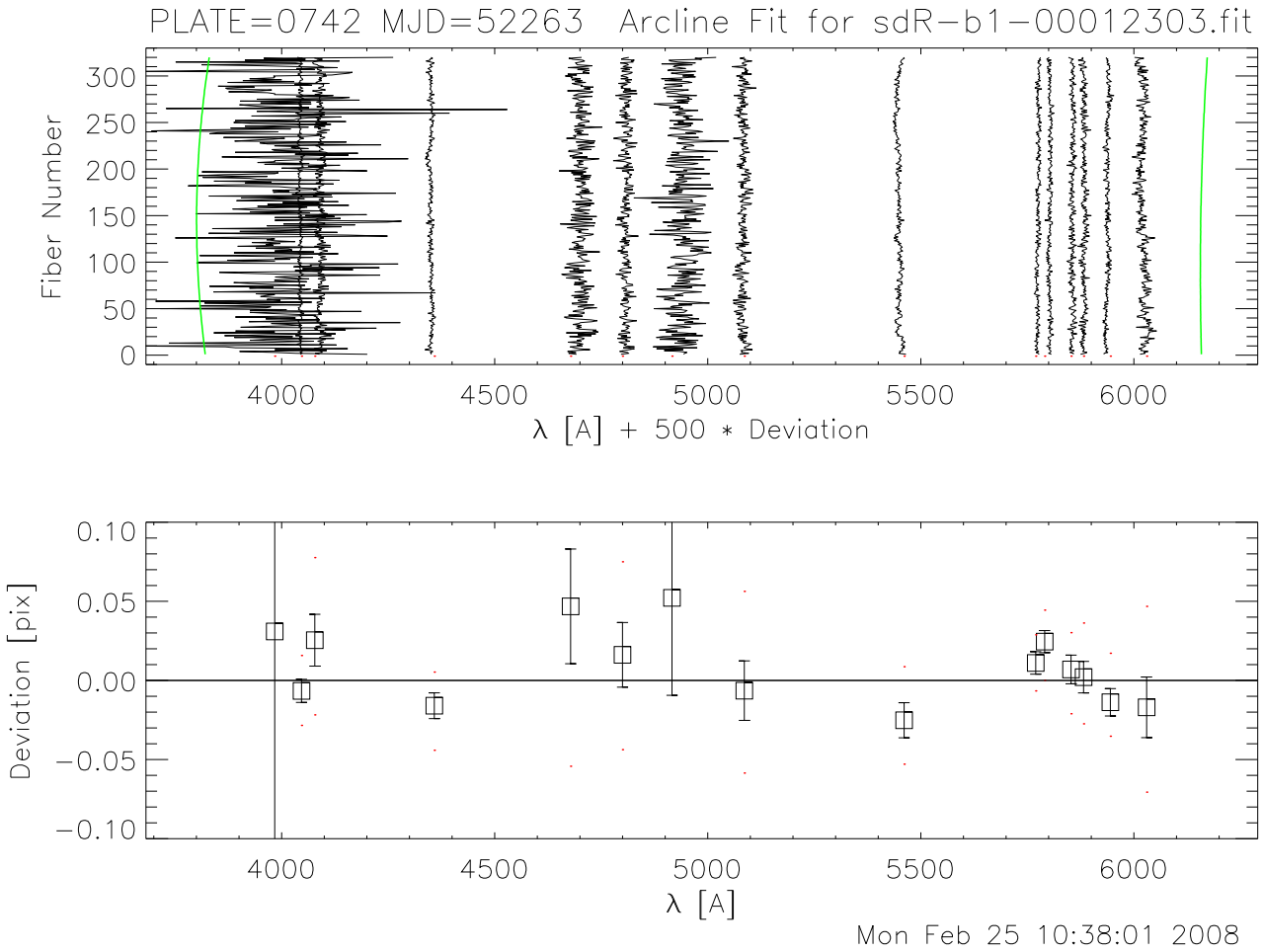

scale coeff residuals from ord=3 poly
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

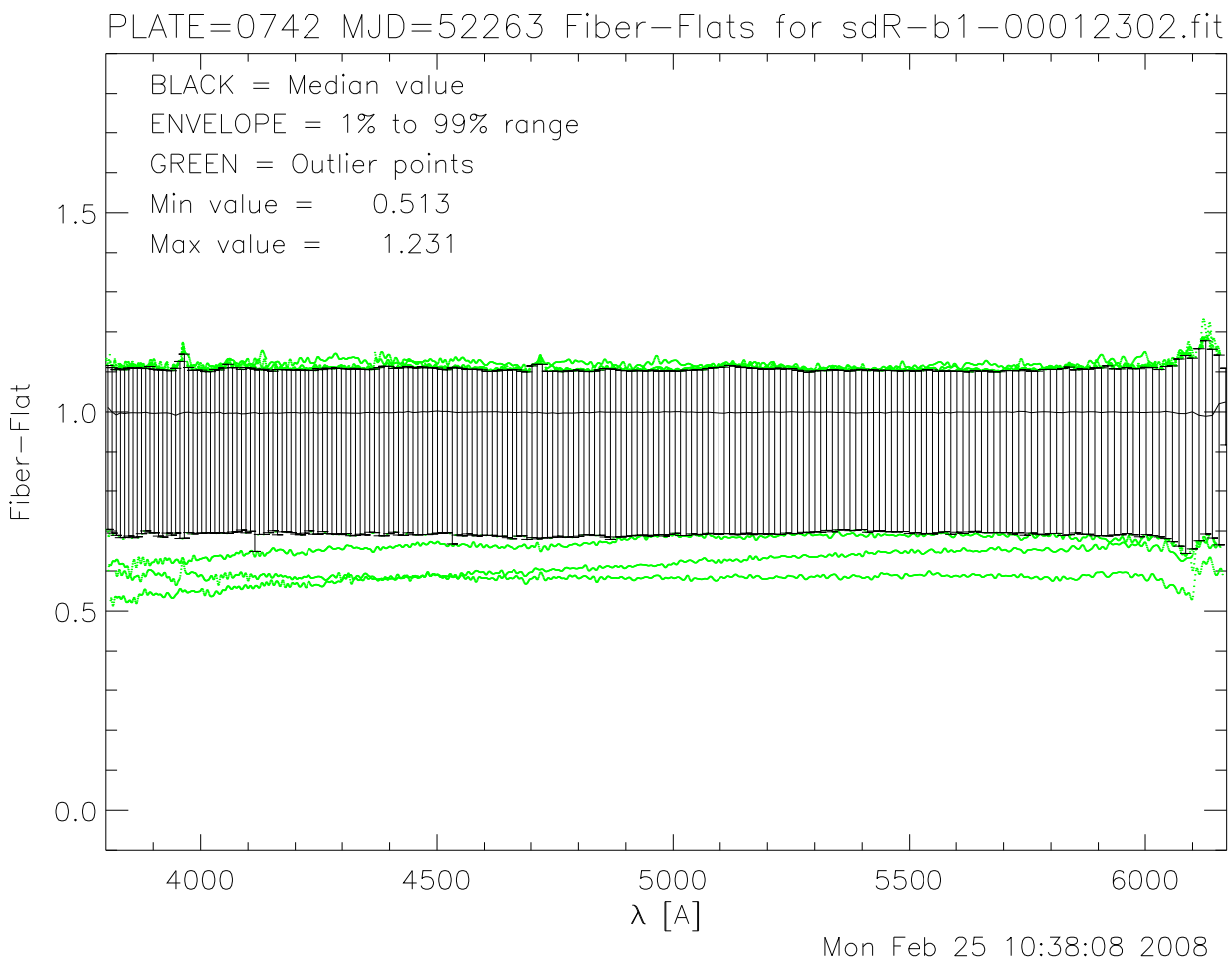

PLATE=0742 MJD=52263 flat extraction chi^2 for sdR−b1−00012299.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
5
10
15
20
0
500
1000
1500
2000

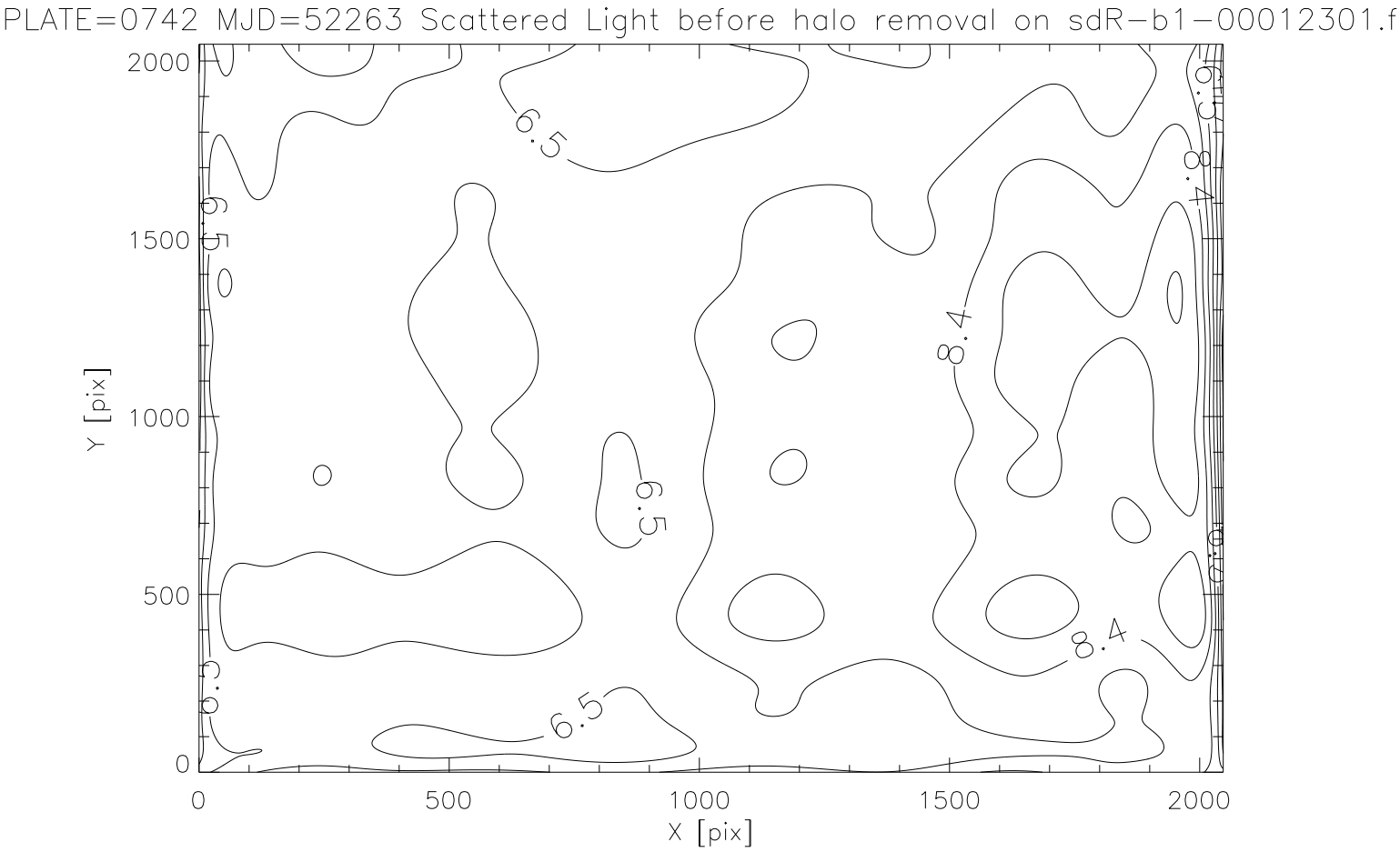

PLATE=0742 MJD=52263 Superflat sdR-b1-00012299.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

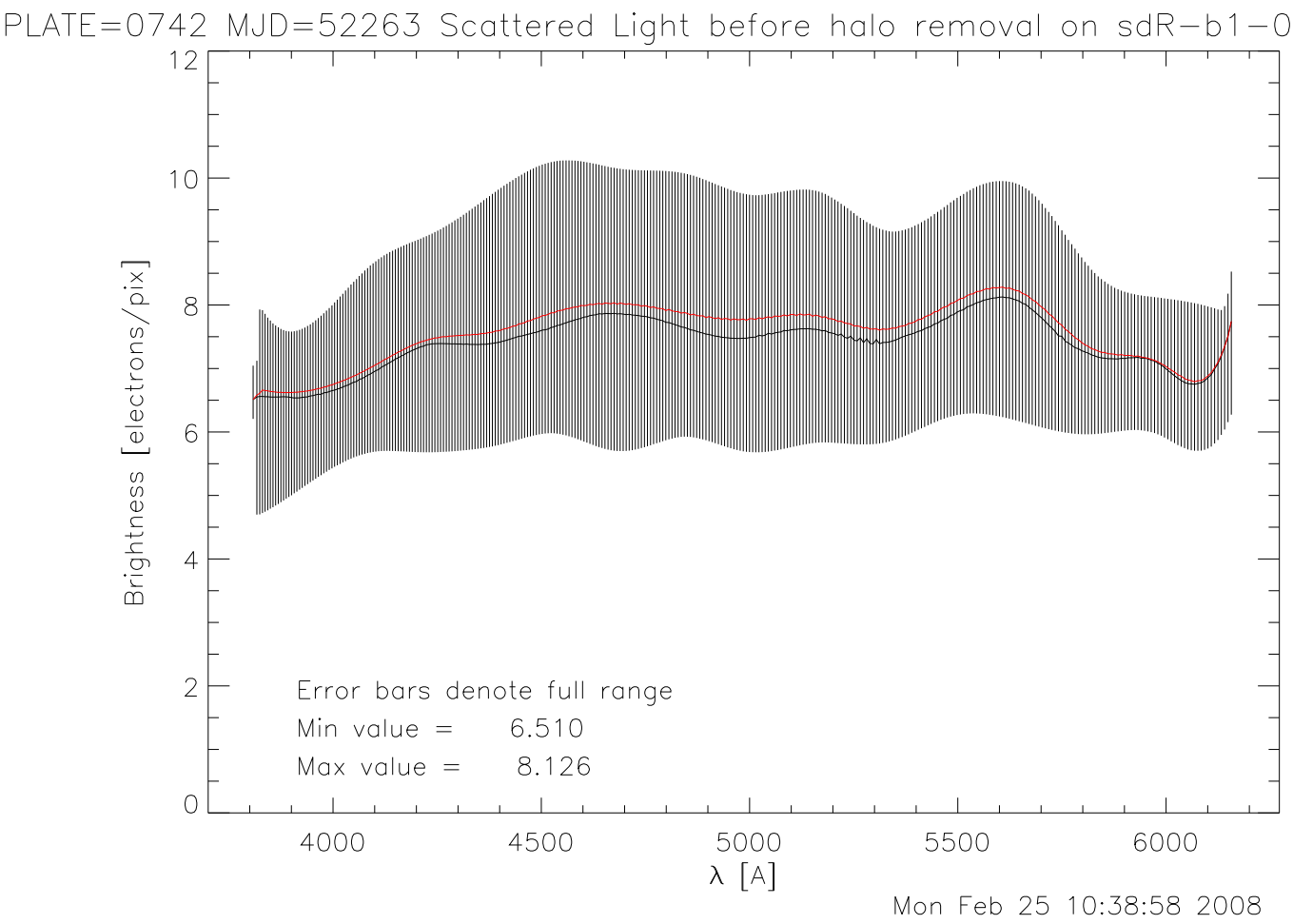

PLATE=0742 MJD=52263 flat extraction chi^2 for sdR−b1−00012302.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
5
10
15
20
0
500
1000
1500
2000
Row number

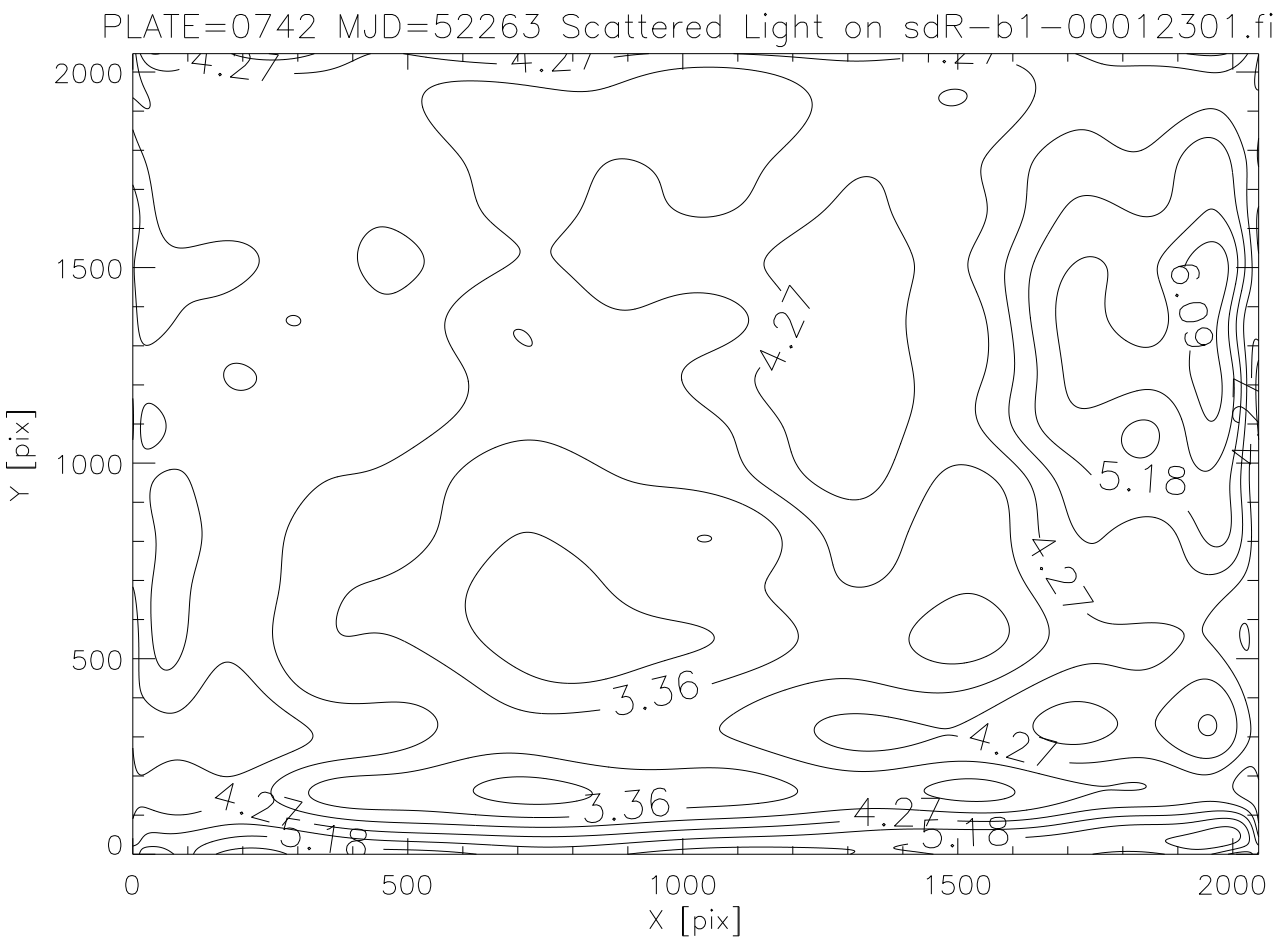

PLATE=0742 MJD=52263 Superflat sdR-b1-00012302.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

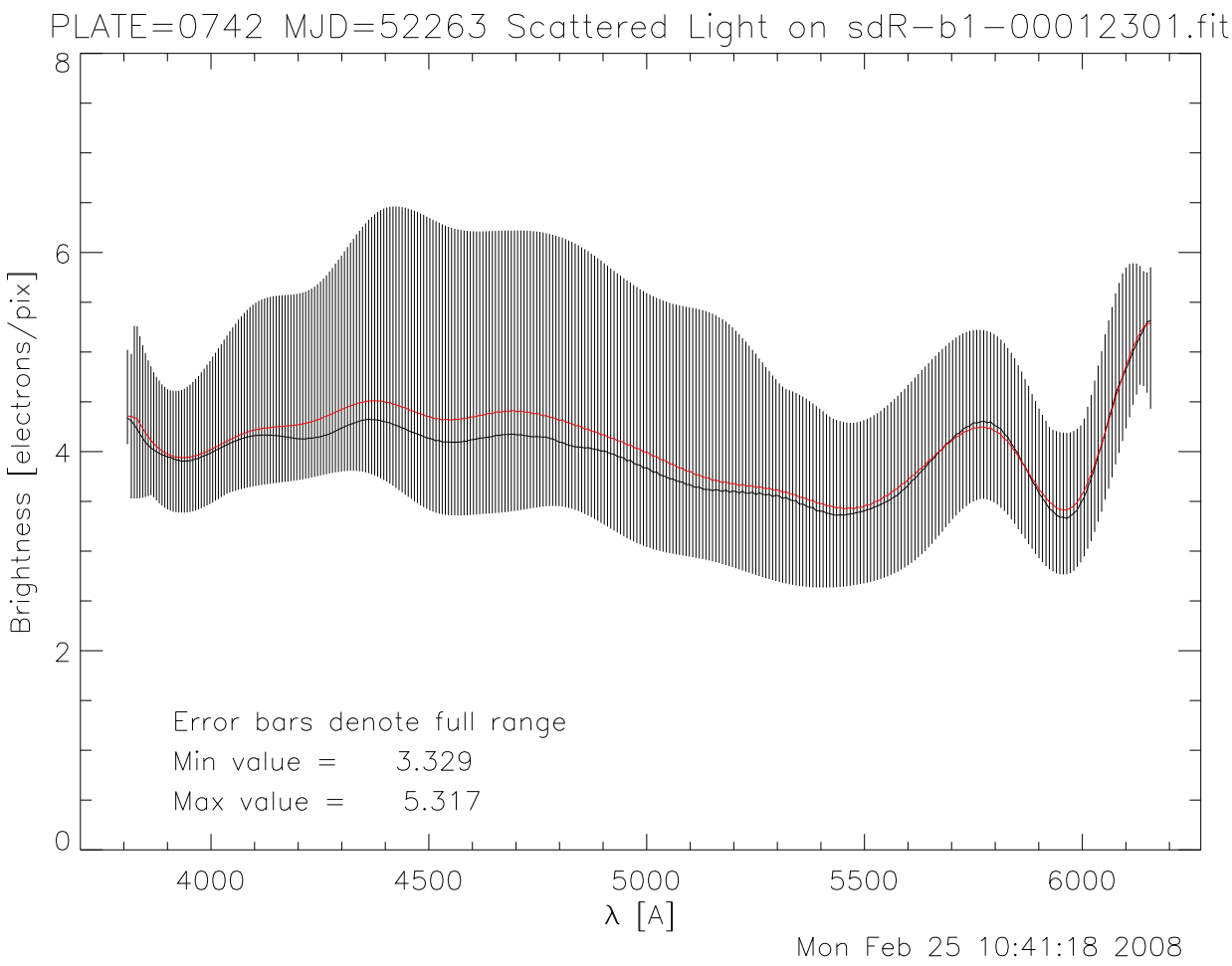

PLATE=0742 MJD=52263 Arcline Fit for sdR-b1-00012303.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 10:38:01 2008

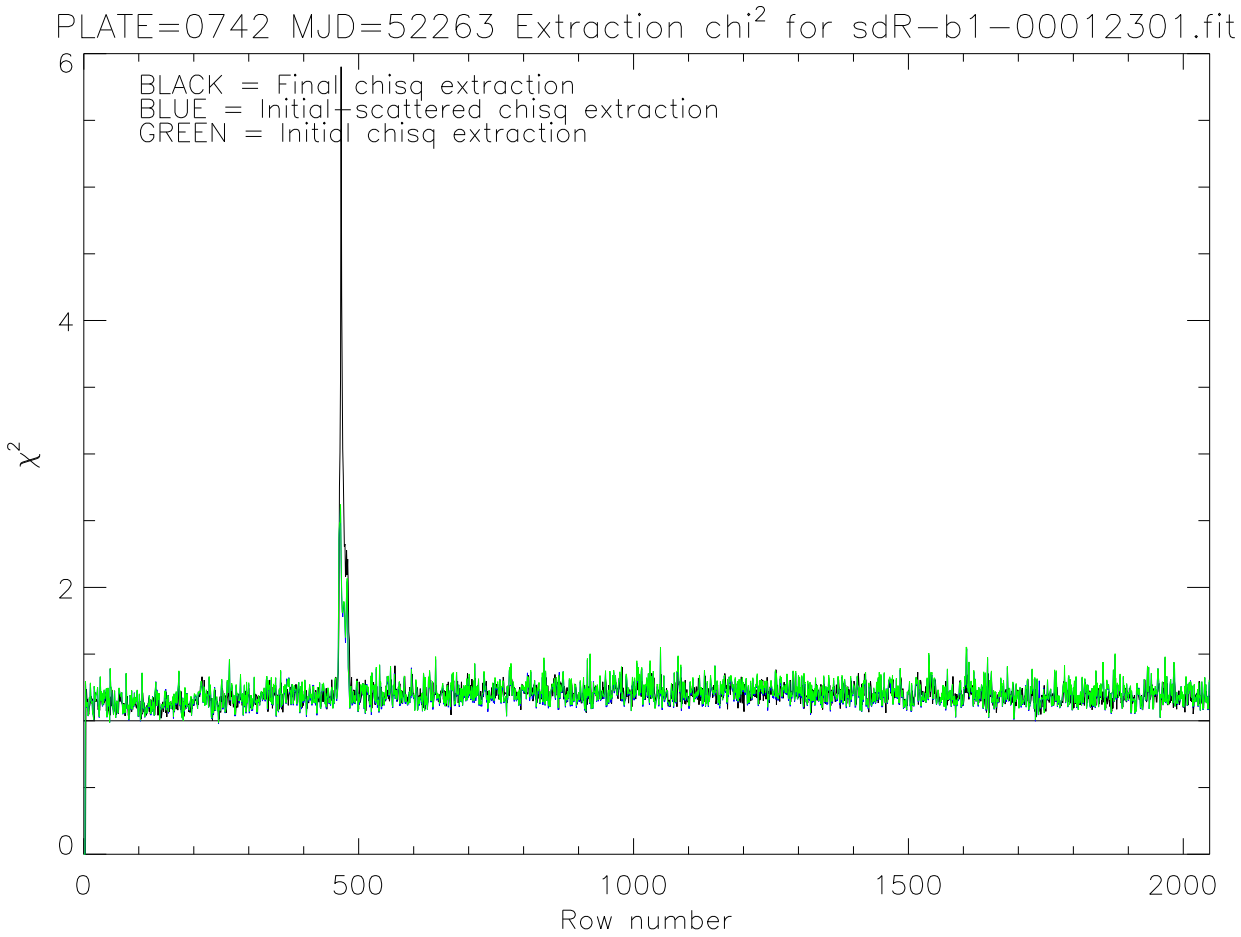

PLATE=0742 MJD=52263 Fiber−Flats for sdR−b1−00012302.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.513
Max value = 1.231
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 10:38:08 2008

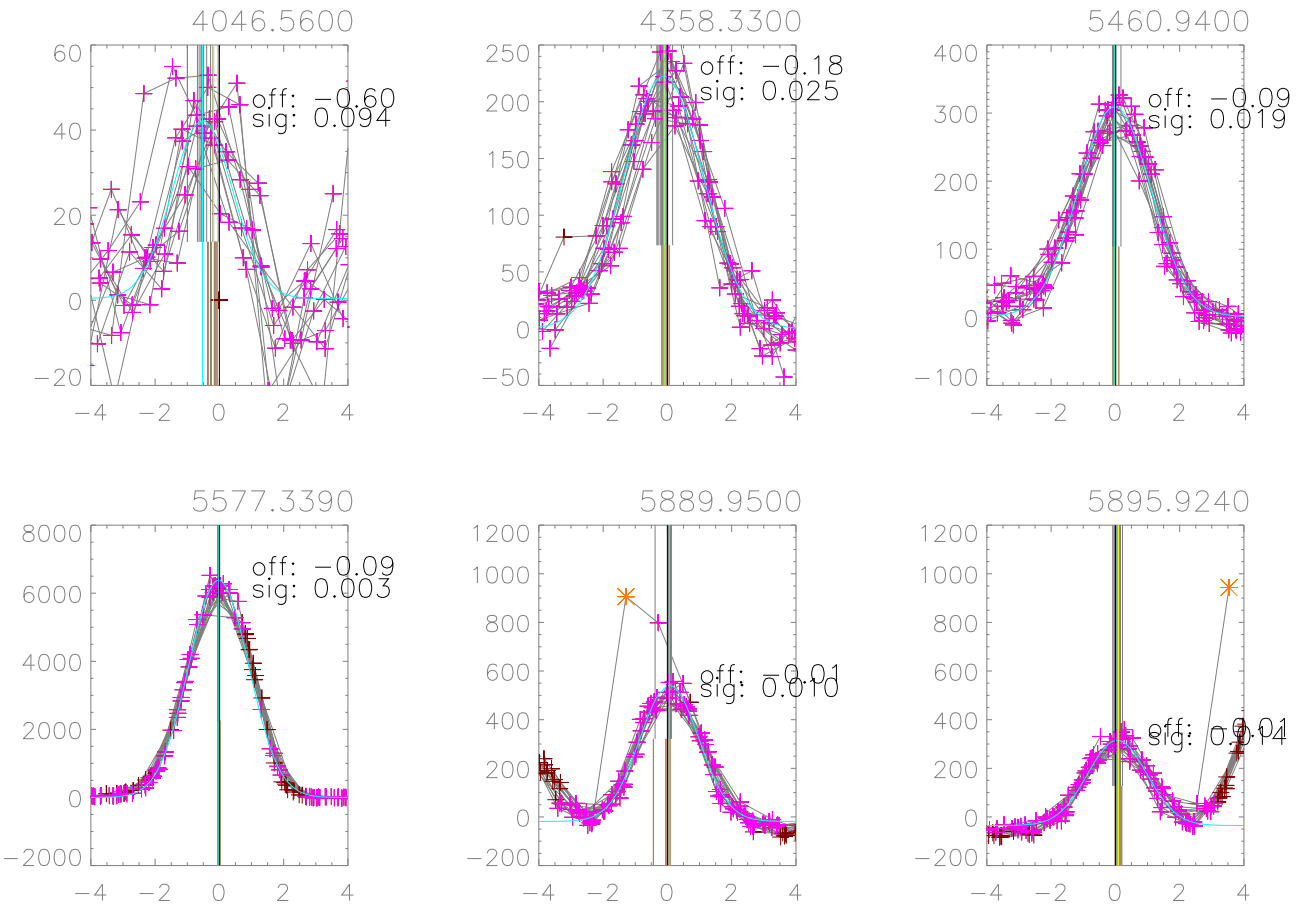

PLATE=0742 MJD=52263 Scattered Light before halo removal on sdR-b1-00012301.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
6.5
8.4
6.5
8.4
6.5
6.5
6.5
6.5
8.4
6.5
6.5
6.5
6.5

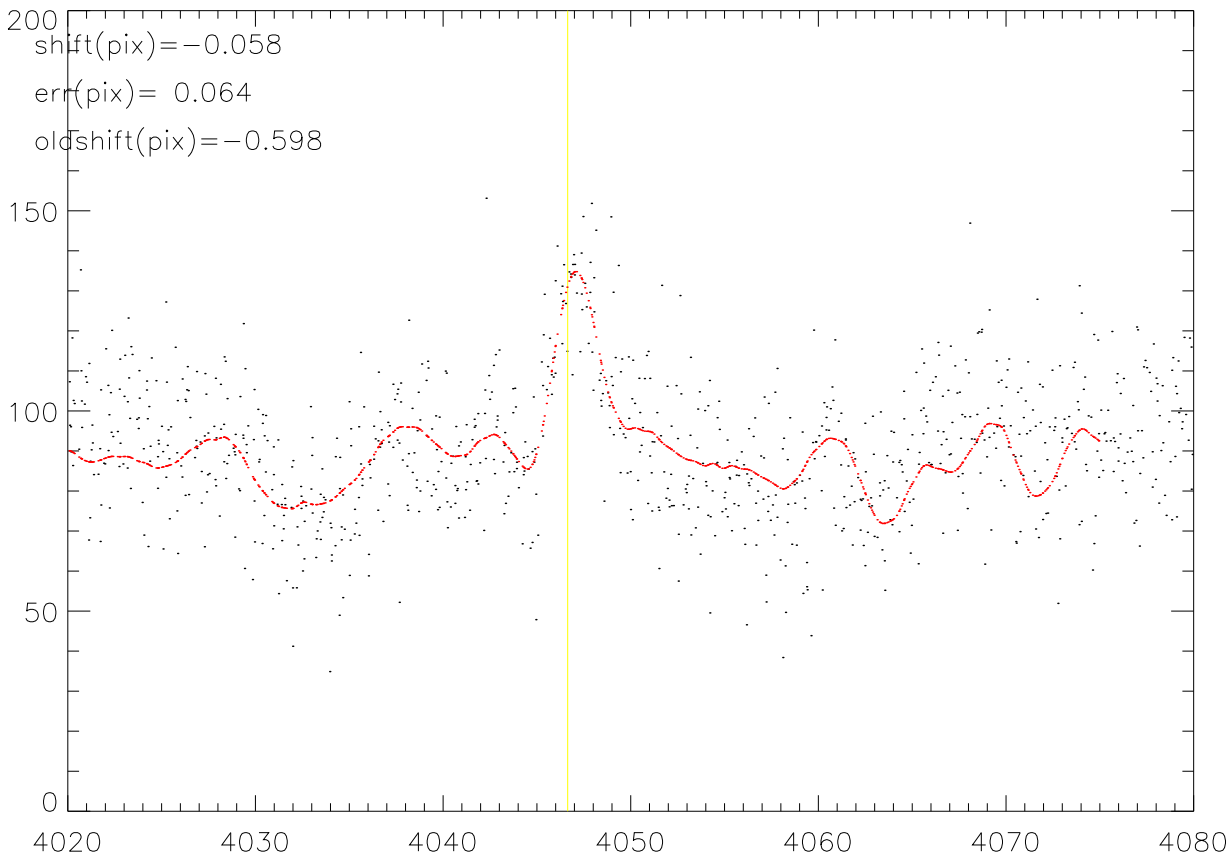

PLATE=0742 MJD=52263 Scattered Light before halo removal on sdR-b1-00012301.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.510
Max value = 8.126
Mon Feb 25 10:38:58 2008

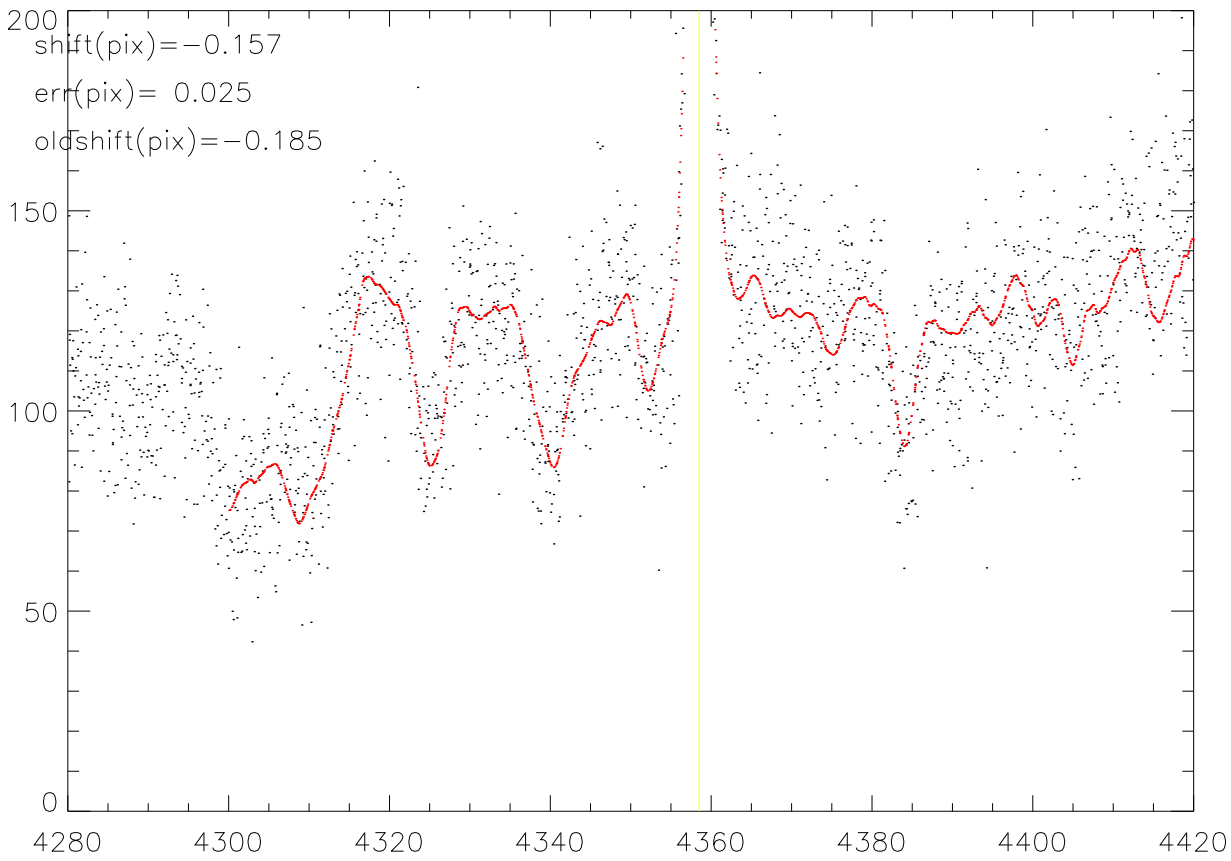

PLATE=0742 MJD=52263 Scattered Light on sdR-b1-00012301.fit
4.27
4.27
6.09
5.18
4.27
3.36
4.27
3.36
4.27
5.18
5.18
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

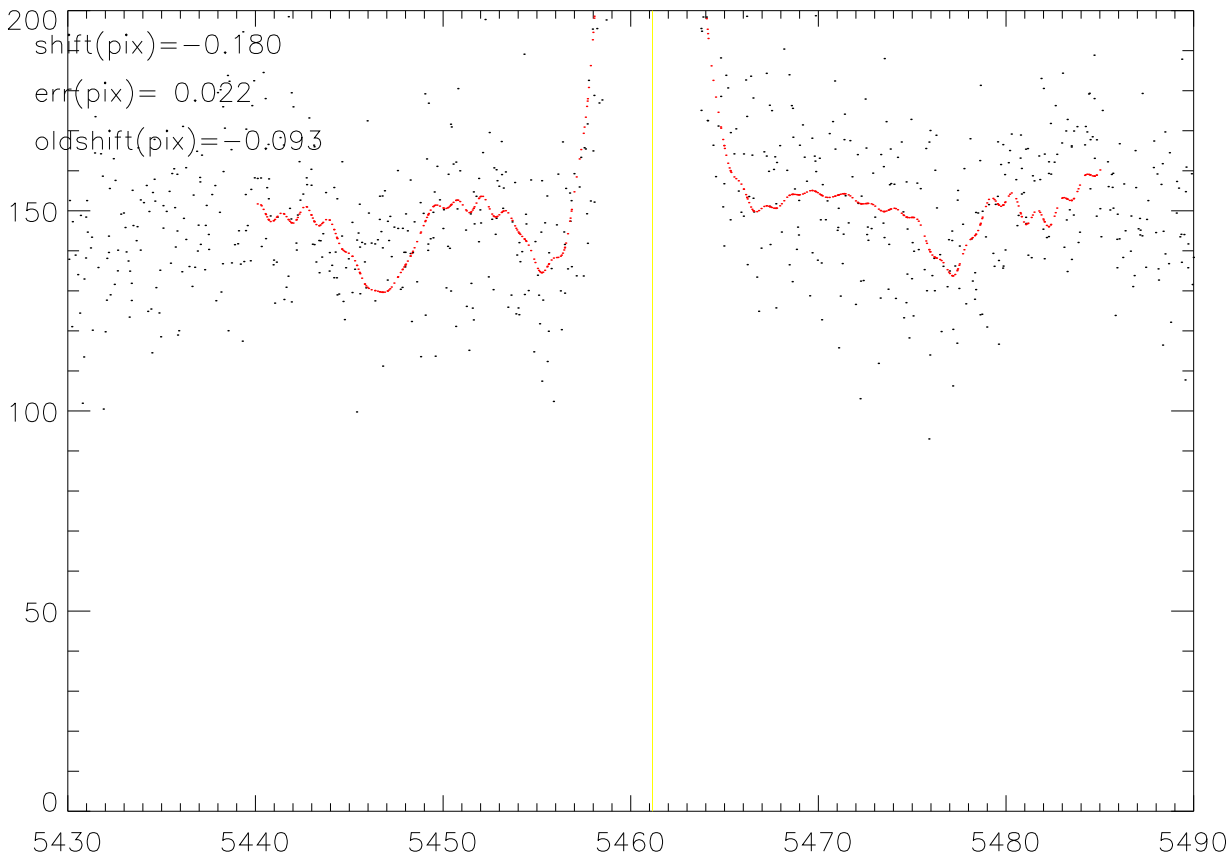

PLATE=0742 MJD=52263 Scattered Light on sdR-b1-00012301.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.329
Max value = 5.317
Mon Feb 25 10:41:18 2008

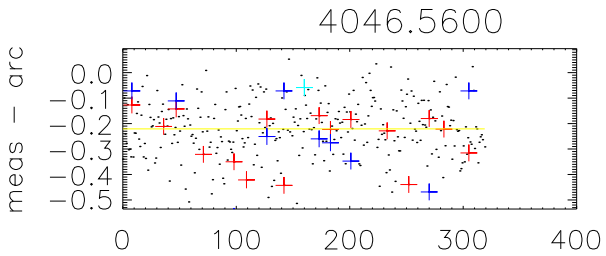

PLATE=0742 MJD=52263 Extraction chi^2 for sdR-b1-00012301.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
0
500
1000
1500
2000
Row number

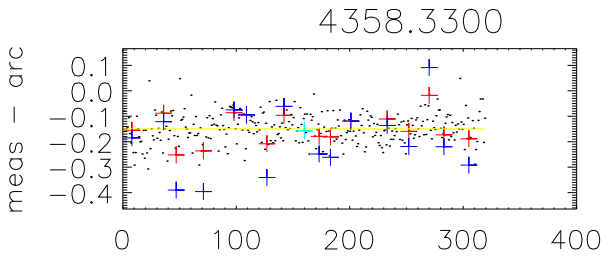

4046.5600
off: −0.60
sig: 0.094
4358.3300
off: −0.18
sig: 0.025
5460.9400
off: −0.09
sig: 0.019
5577.3390
off: −0.09
sig: 0.003
5889.9500
off: −0.01
sig: 0.010
5895.9240
off: −0.01
sig: 0.014

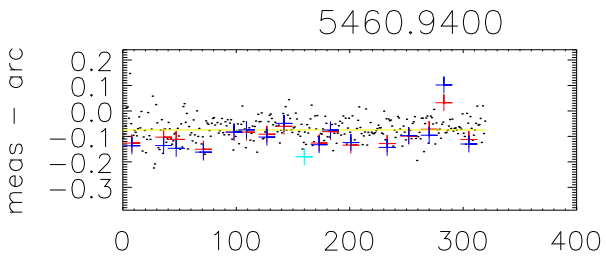

shift(pix)=−0.058
err(pix)= 0.064
oldshift(pix)=−0.598
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

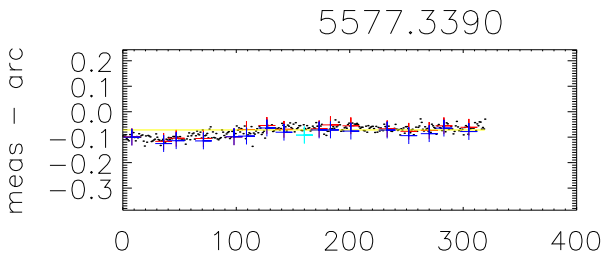

shift(pix)=−0.157
err(pix)= 0.025
oldshift(pix)=−0.185
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

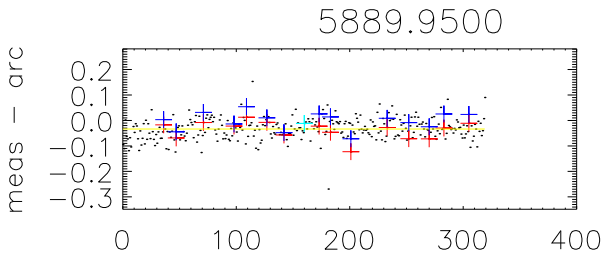

shift(pix)=−0.180
err(pix)= 0.022
oldshift(pix)=−0.093
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

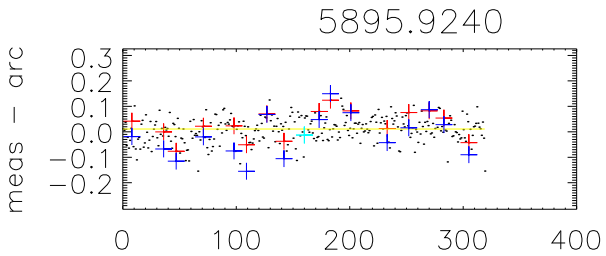

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

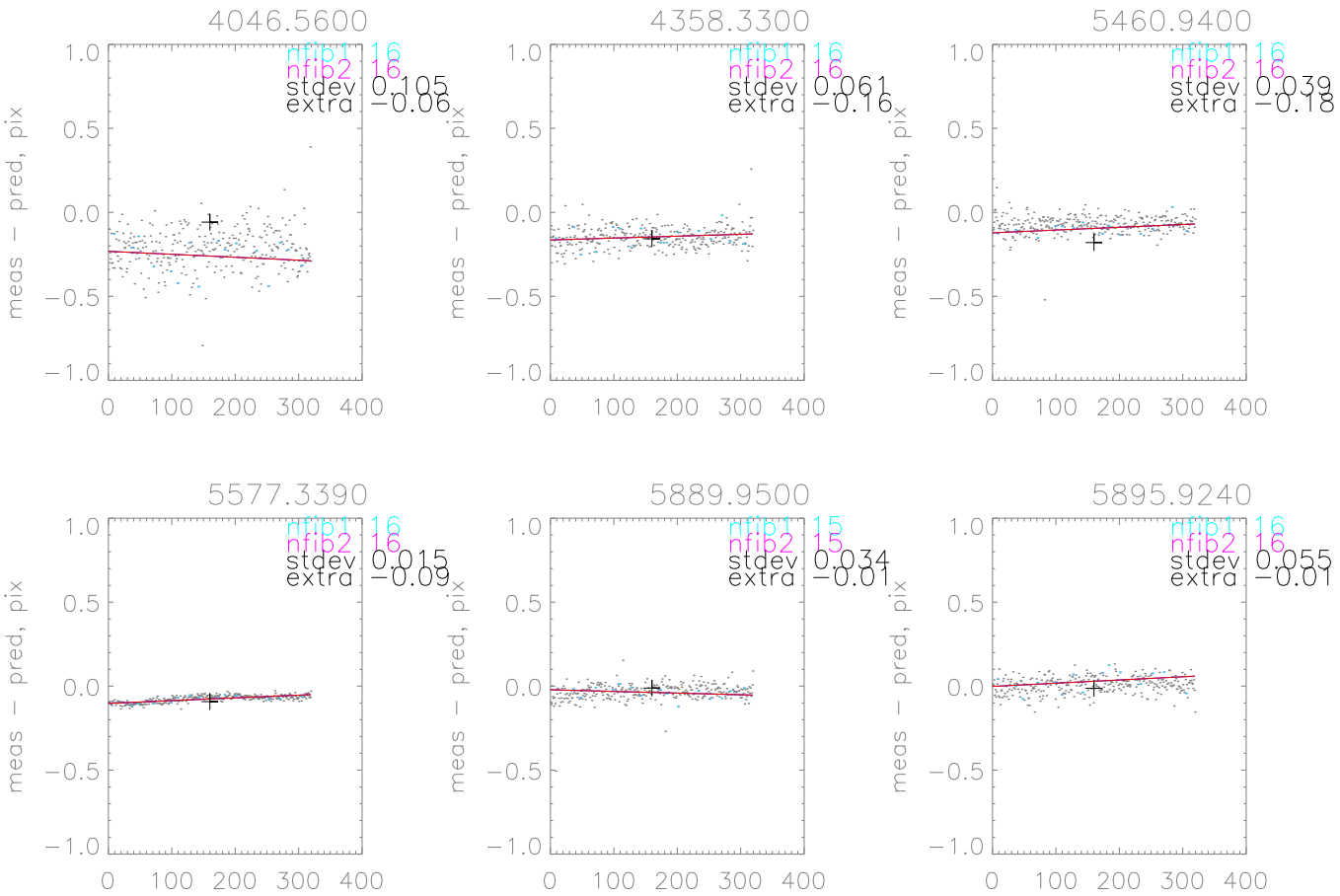

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

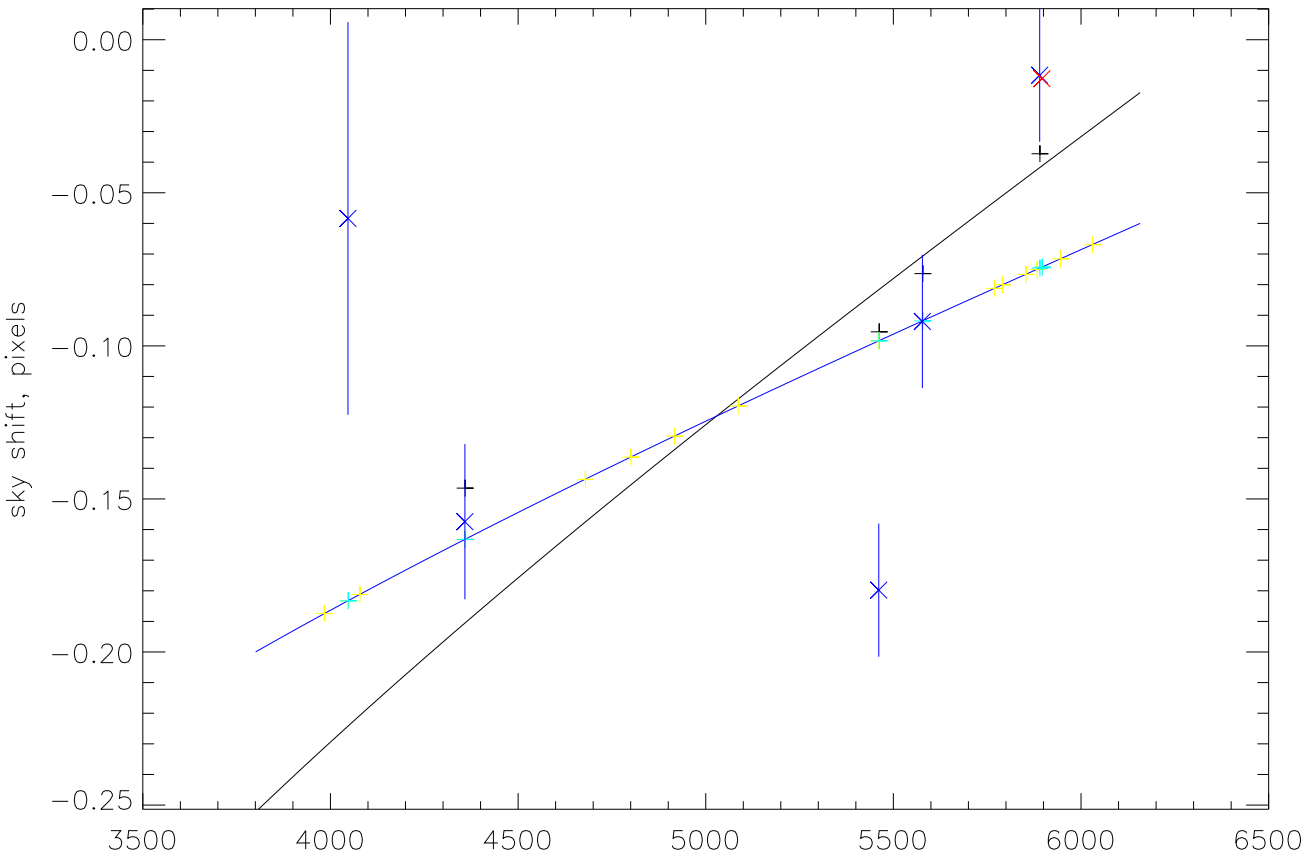

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

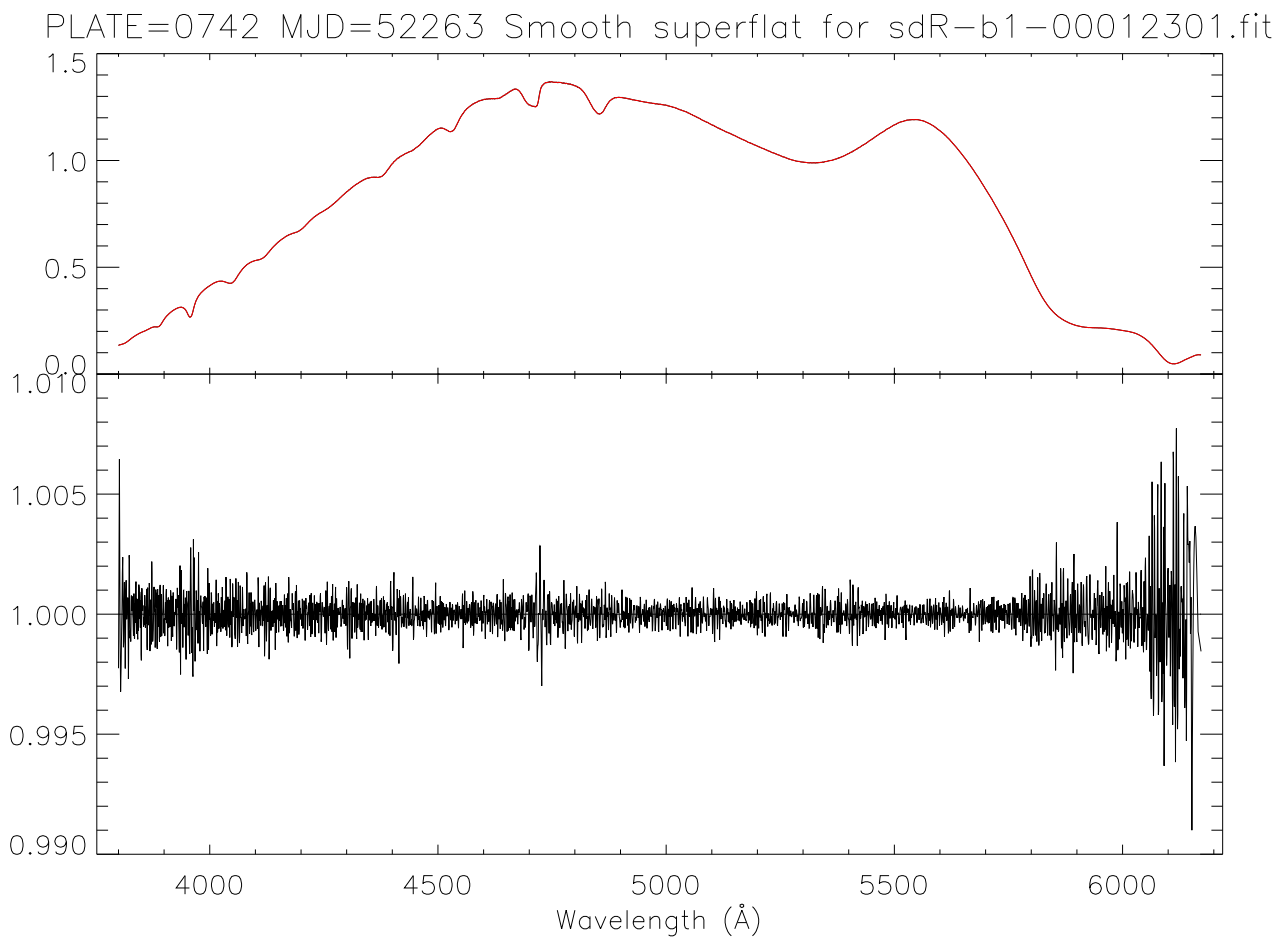

5889.9500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

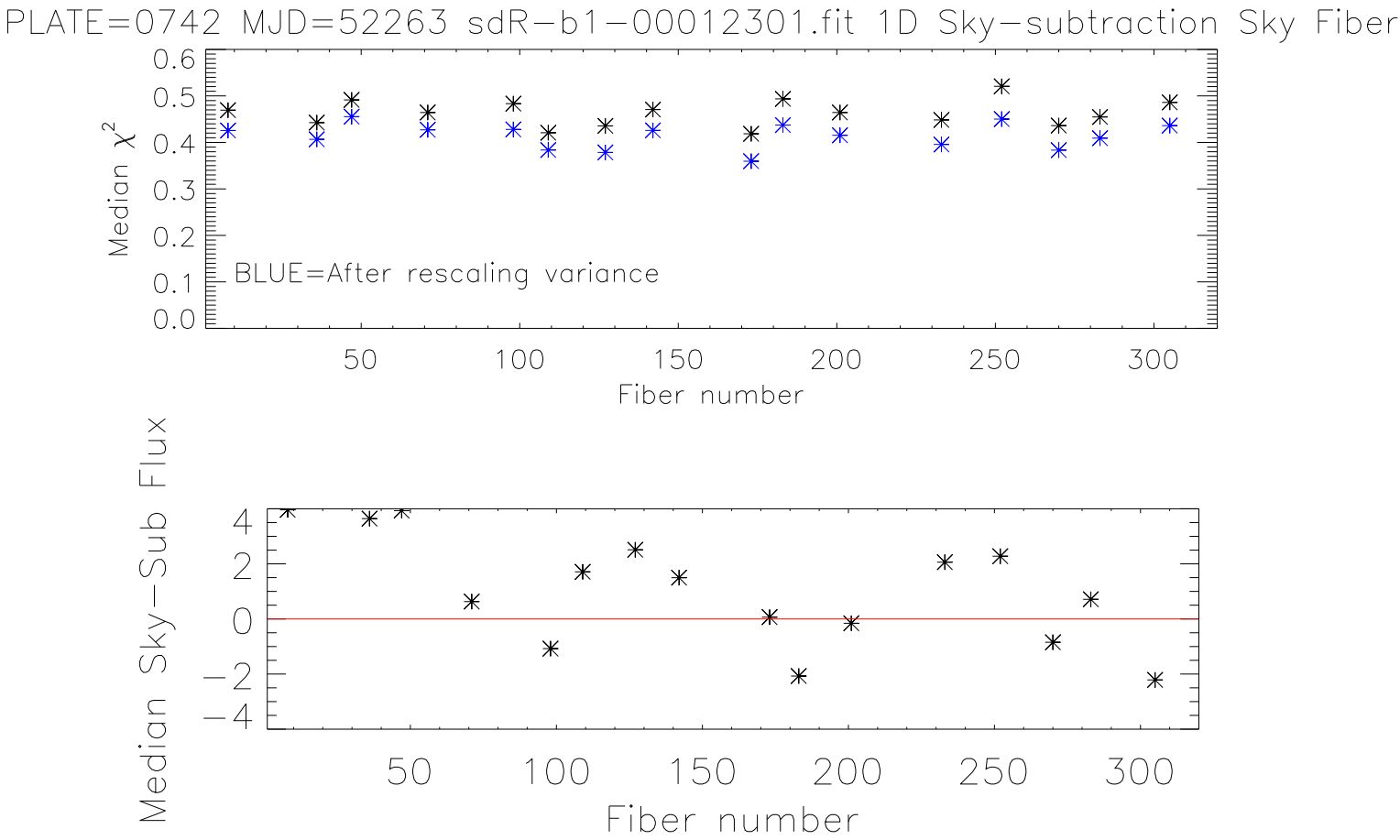

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

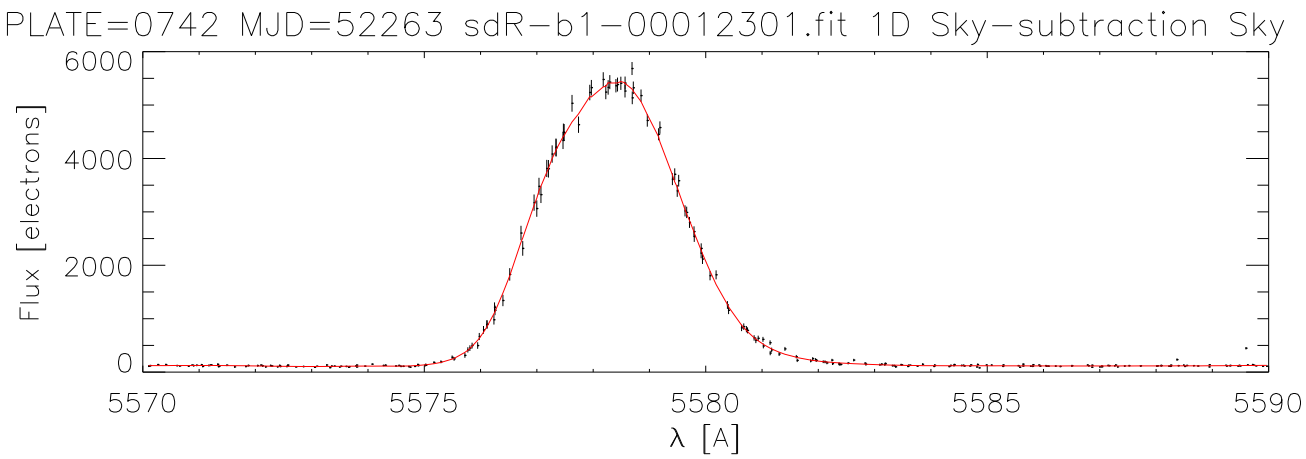

4046.5600
nfib1 16
nfib2 16
stdev 0.105
extra −0.06
4358.3300
nfib1 16
nfib2 16
stdev 0.061
extra −0.16
5460.9400
nfib1 16
nfib2 16
stdev 0.039
extra −0.18
5577.3390
nfib1 16
nfib2 16
stdev 0.015
extra −0.09
5889.9500
nfib1 15
nfib2 15
stdev 0.034
extra −0.01
5895.9240
nfib1 16
nfib2 16
stdev 0.055
extra −0.01
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

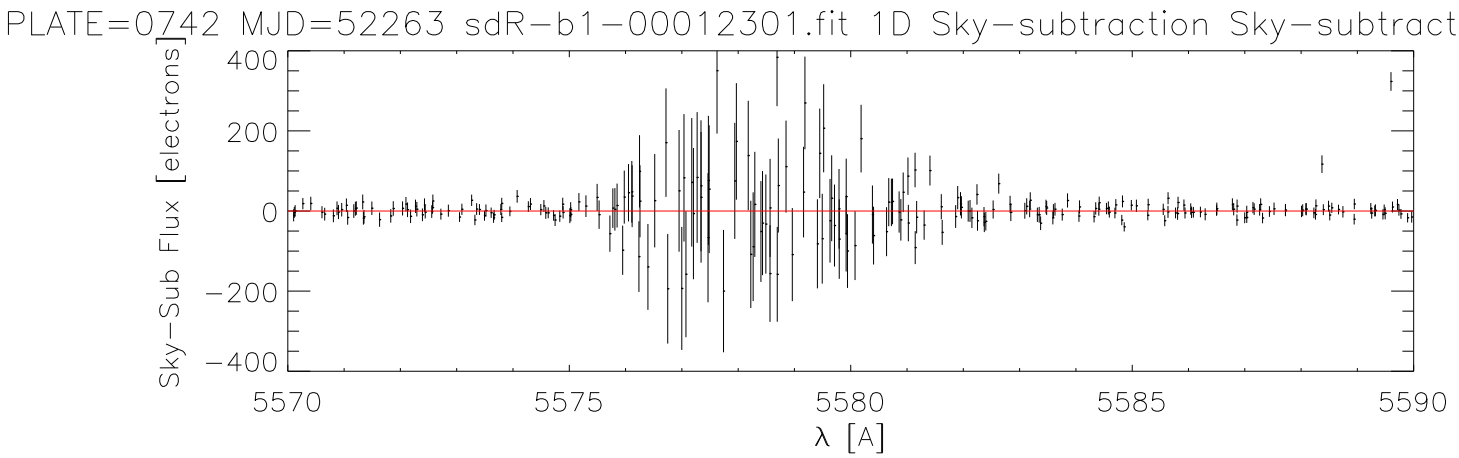

0.00
−0.05
−0.10
−0.15
−0.20
−0.25
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

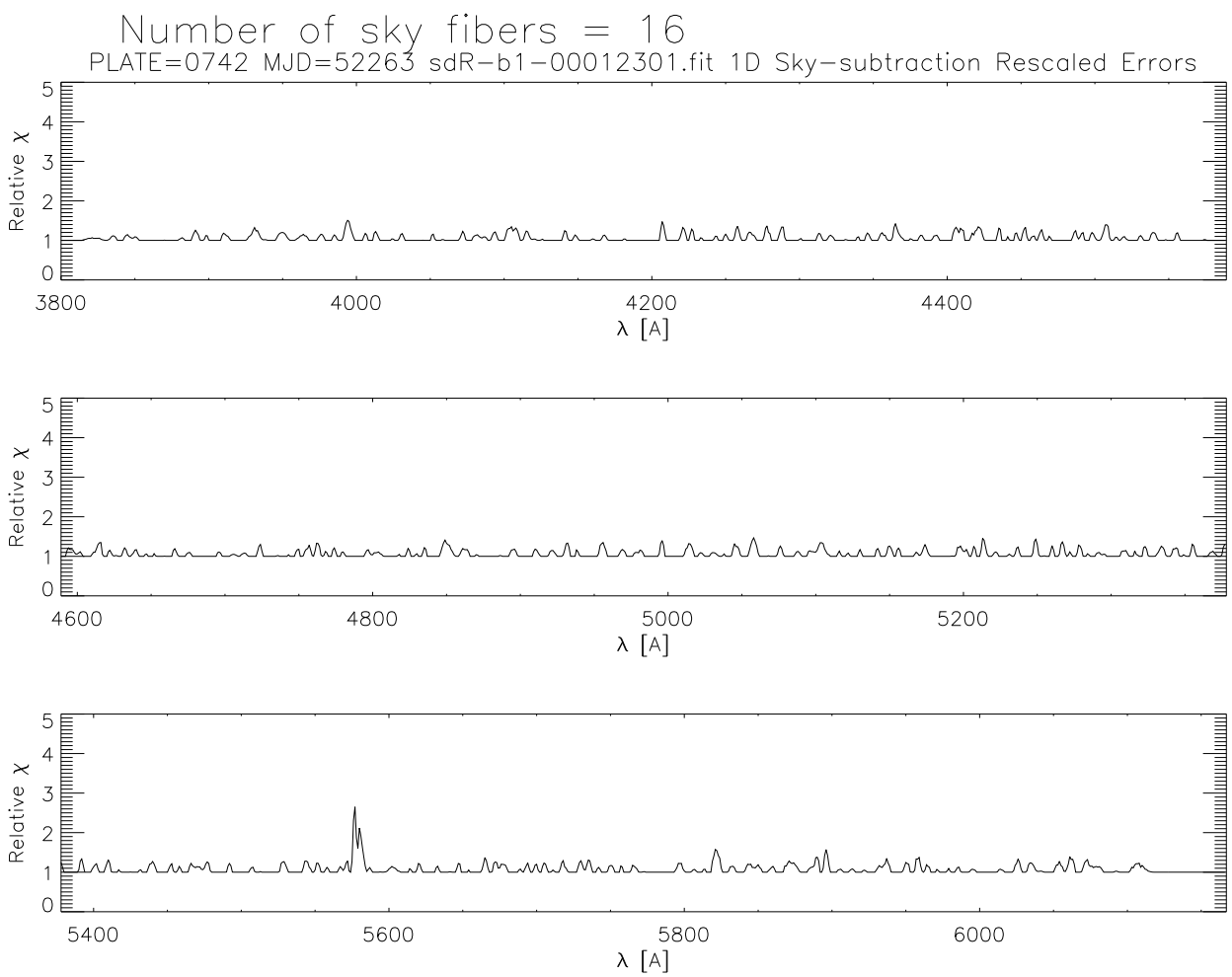
es= 0.0000

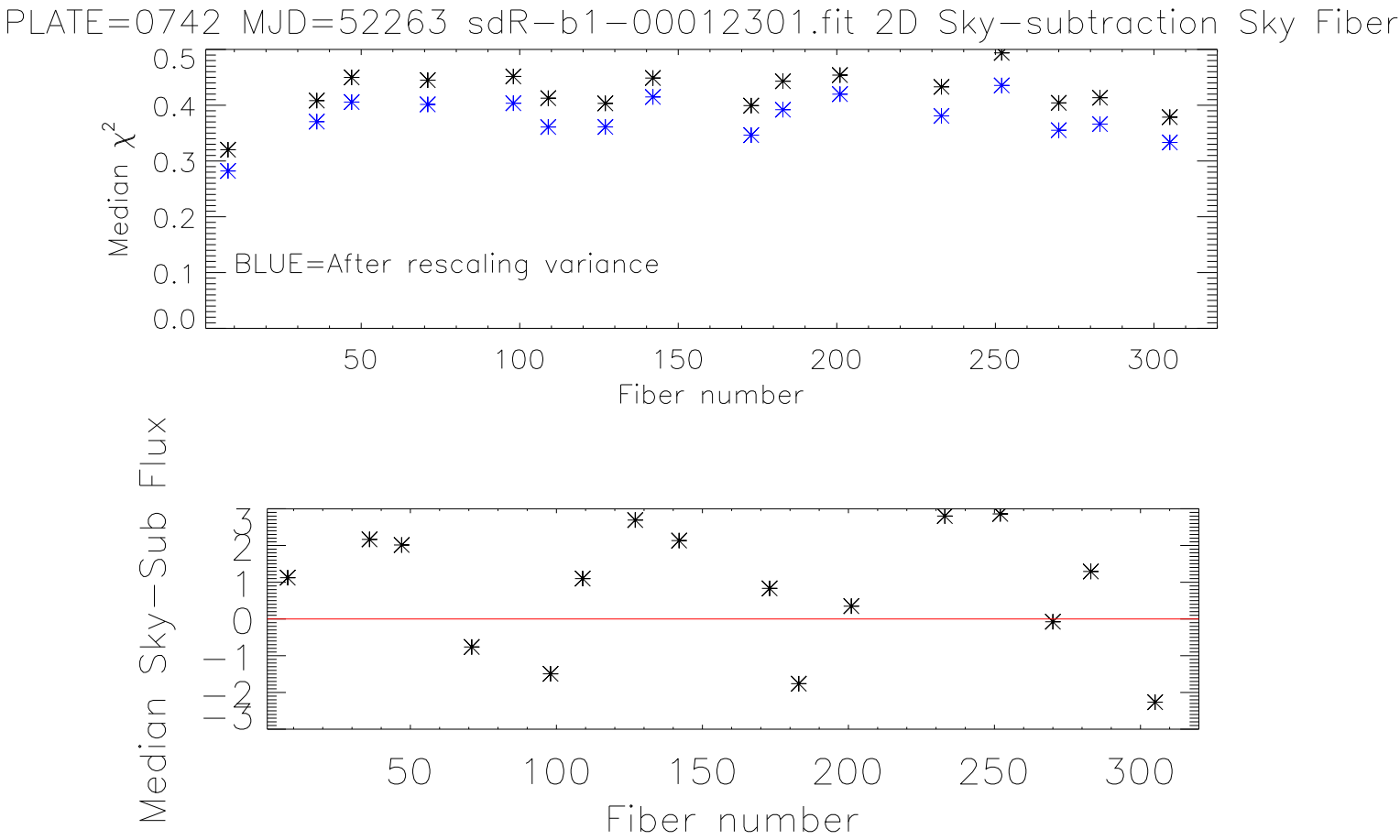

PLATE=0742 MJD=52263 Smooth superflat for sdR-b1-00012301.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

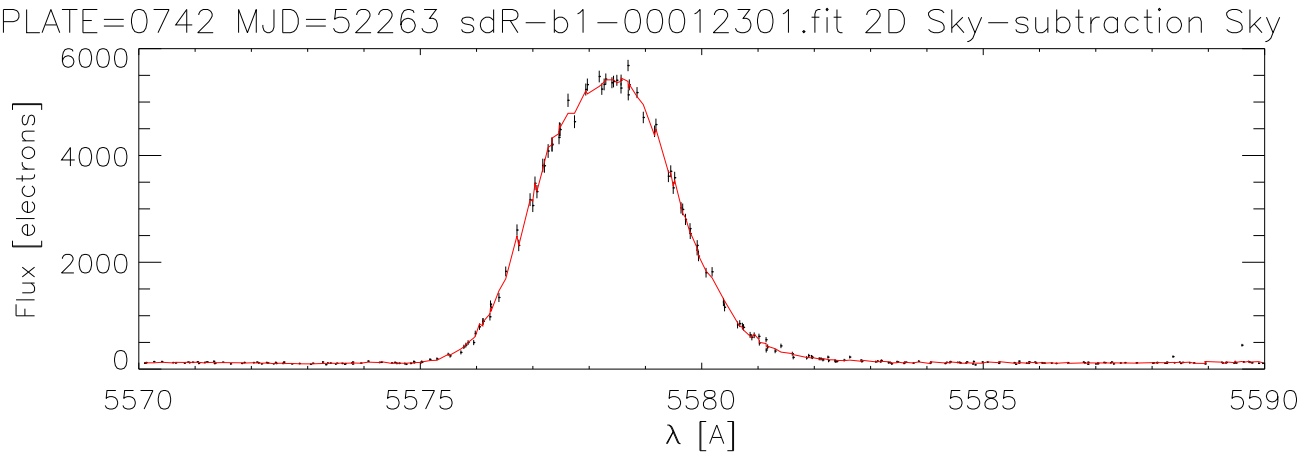

PLATE=0742 MJD=52263 sdR-b1-00012301.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

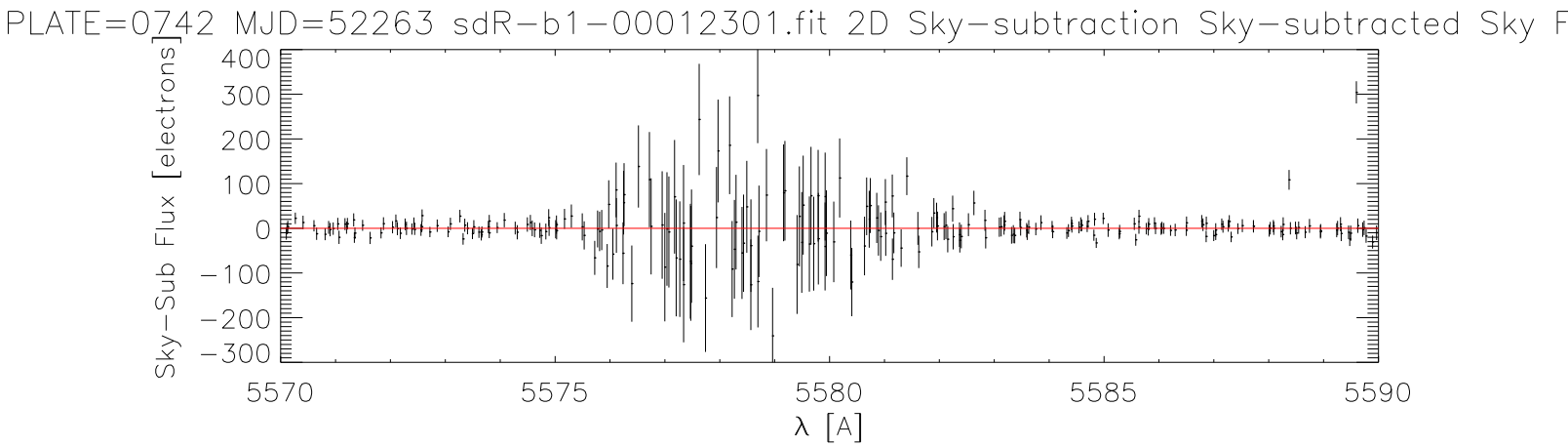

PLATE=0742 MJD=52263 sdR-b1-00012301.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

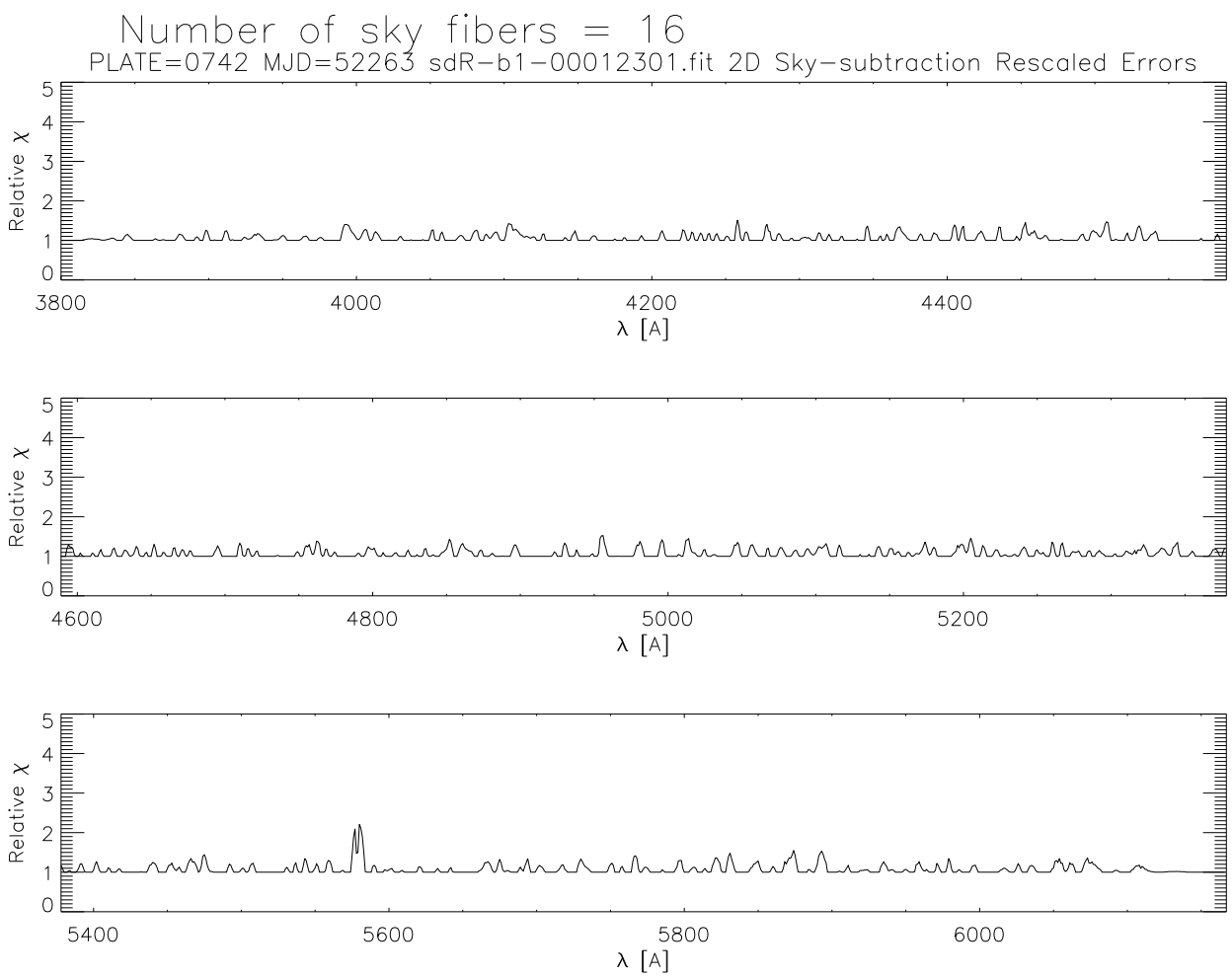

PLATE=0742 MJD=52263 sdR-b1-00012301.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

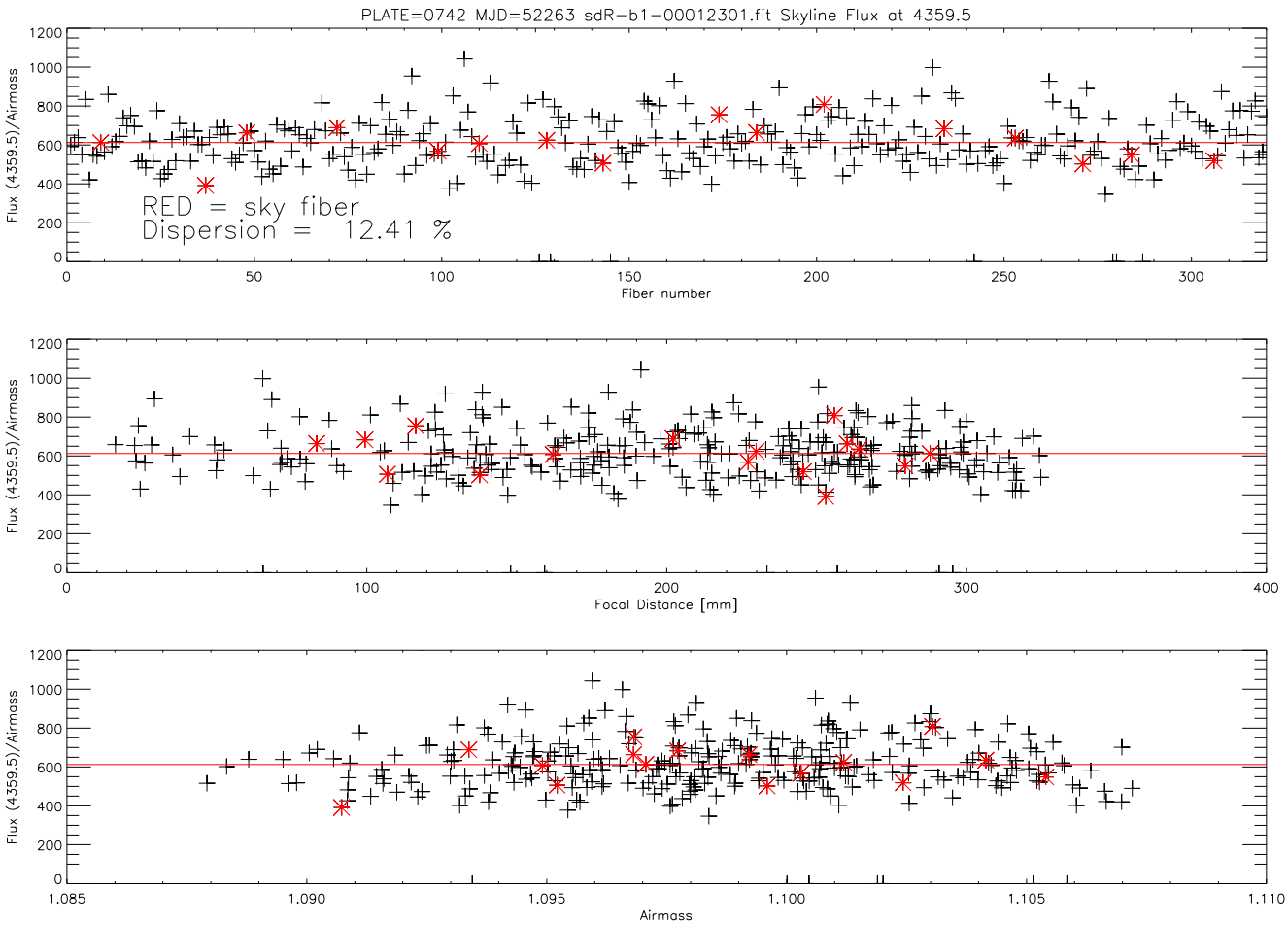

Number of sky fibers = 16
PLATE=0742 MJD=52263 sdR-b1-00012301.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

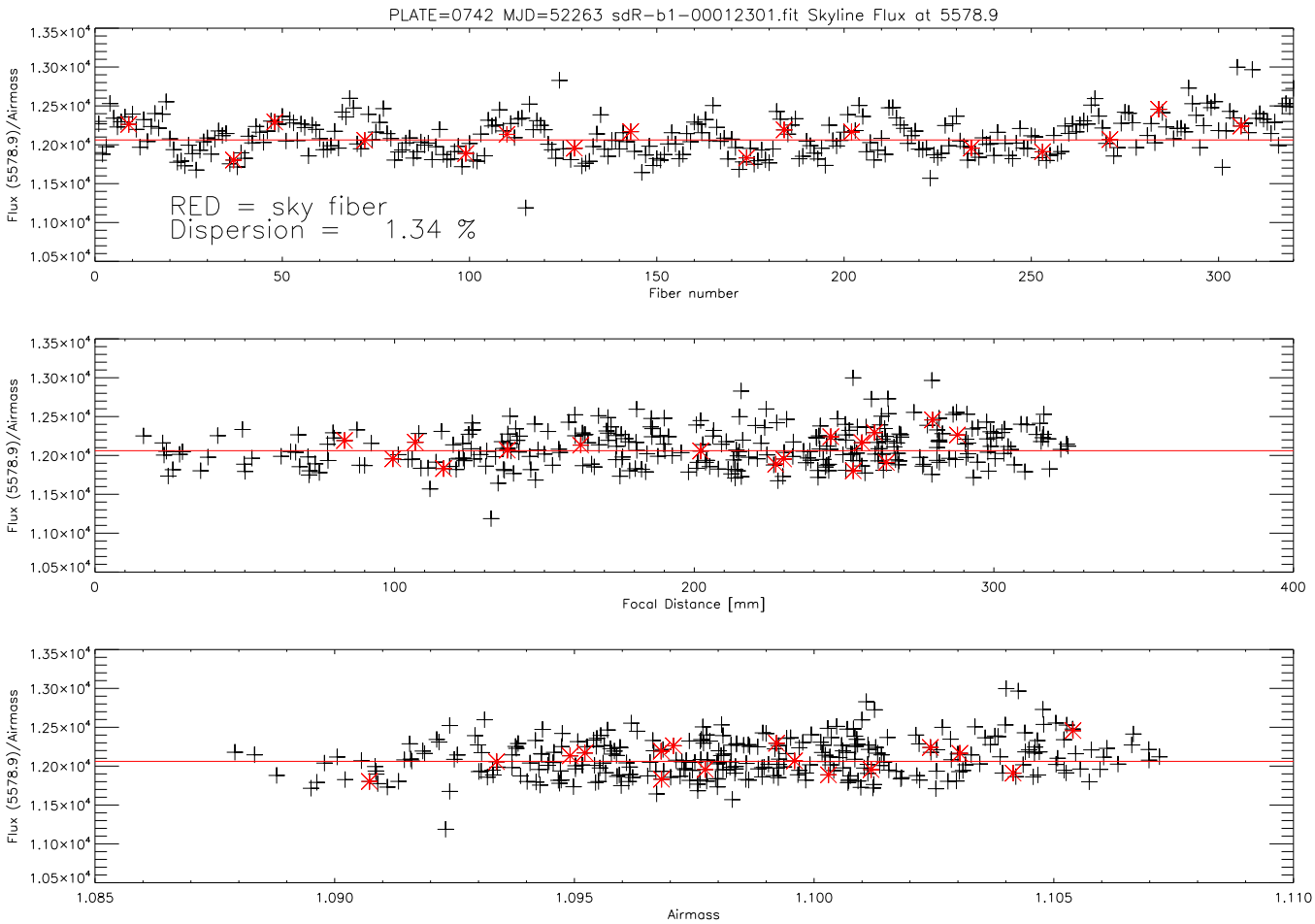

PLATE=0742 MJD=52263 sdR-b1-00012301.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-3
-2
-1
0
1
2
3
50
100
150
200
250
300
Fiber number

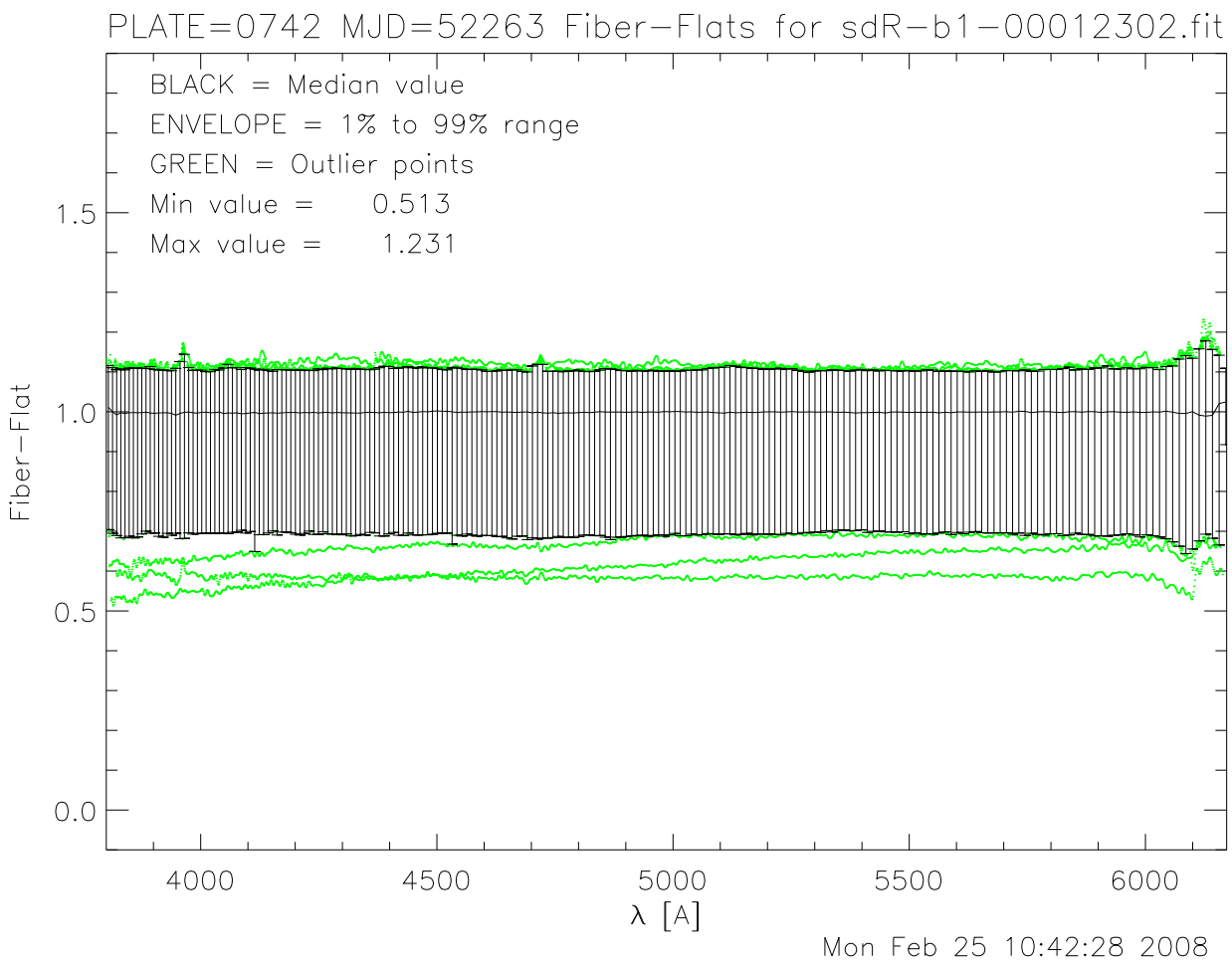

PLATE=0742 MJD=52263 sdR-b1-00012301.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

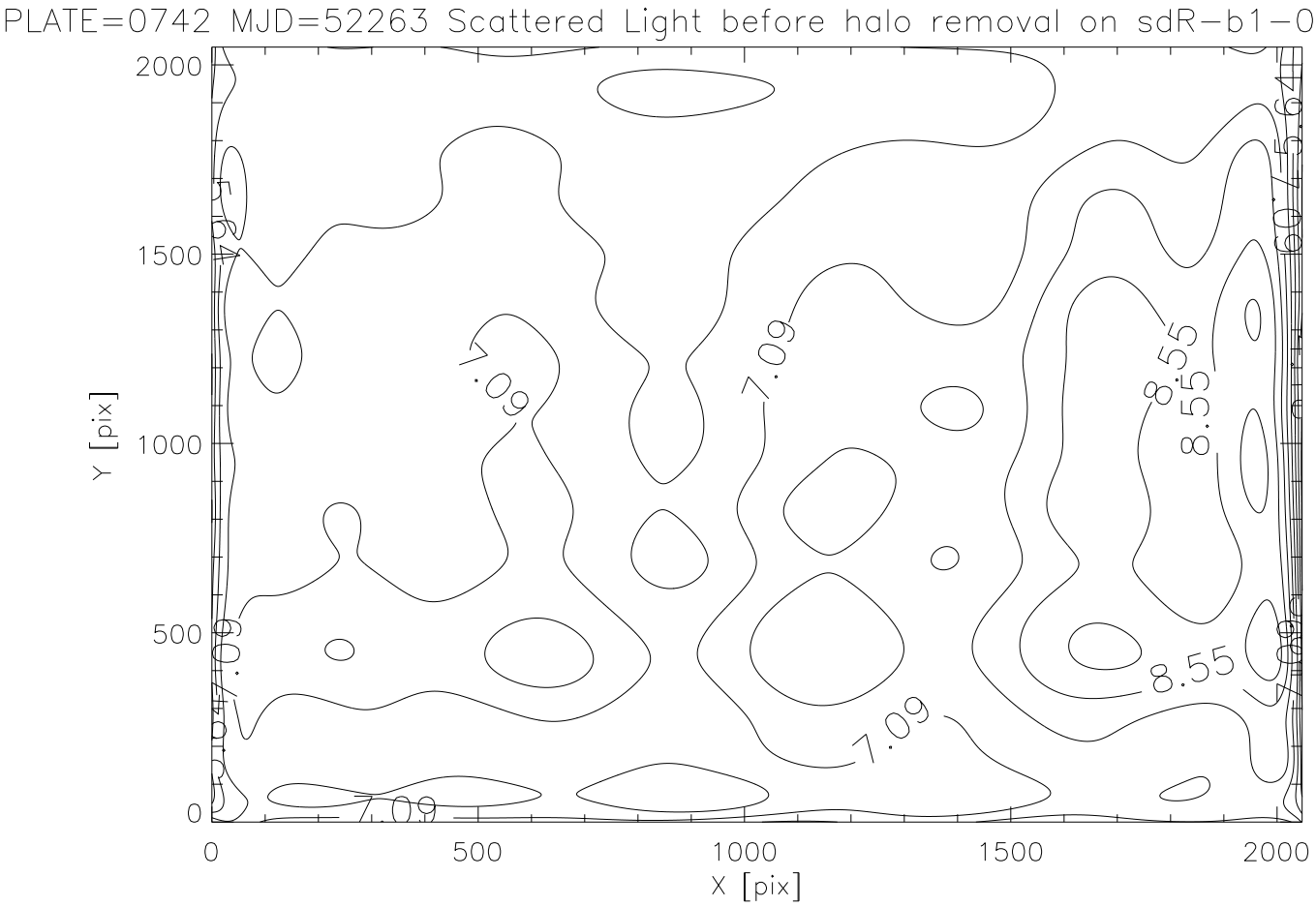

PLATE=0742 MJD=52263 sdR-b1-00012301.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

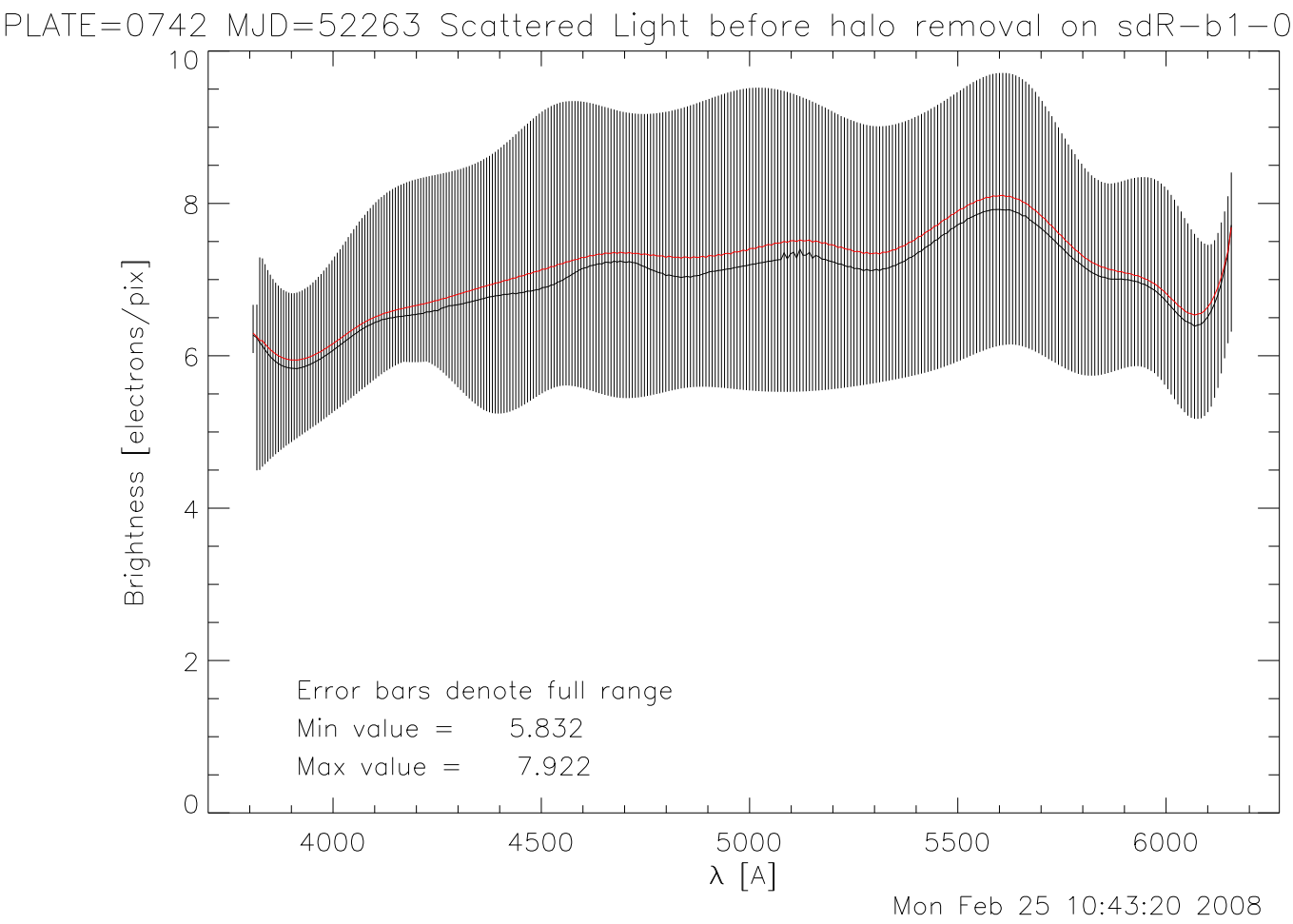

Number of sky fibers = 16
PLATE=0742 MJD=52263 sdR-b1-00012301.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

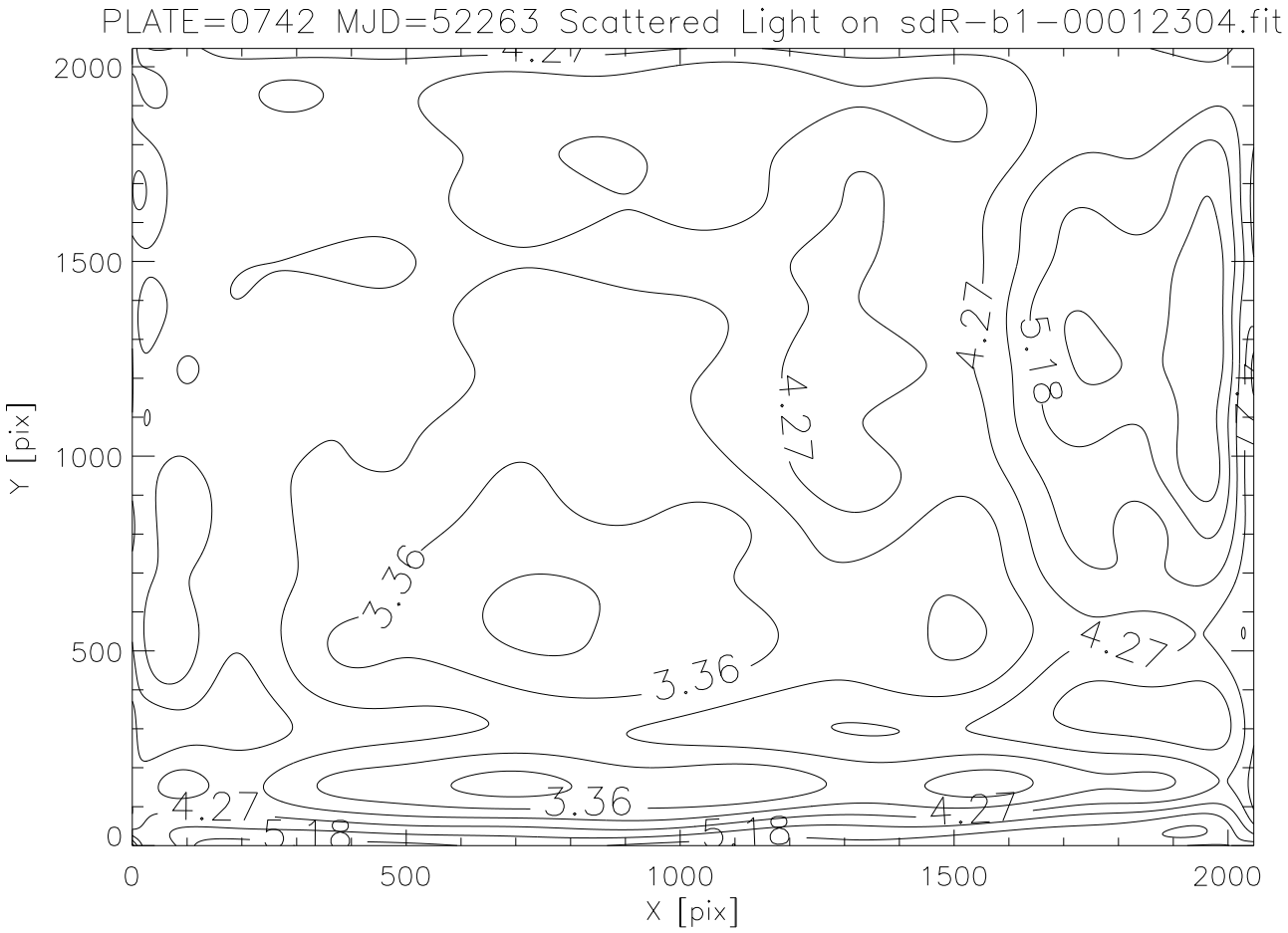

PLATE=0742 MJD=52263 sdR-b1-00012301.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 12.41 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

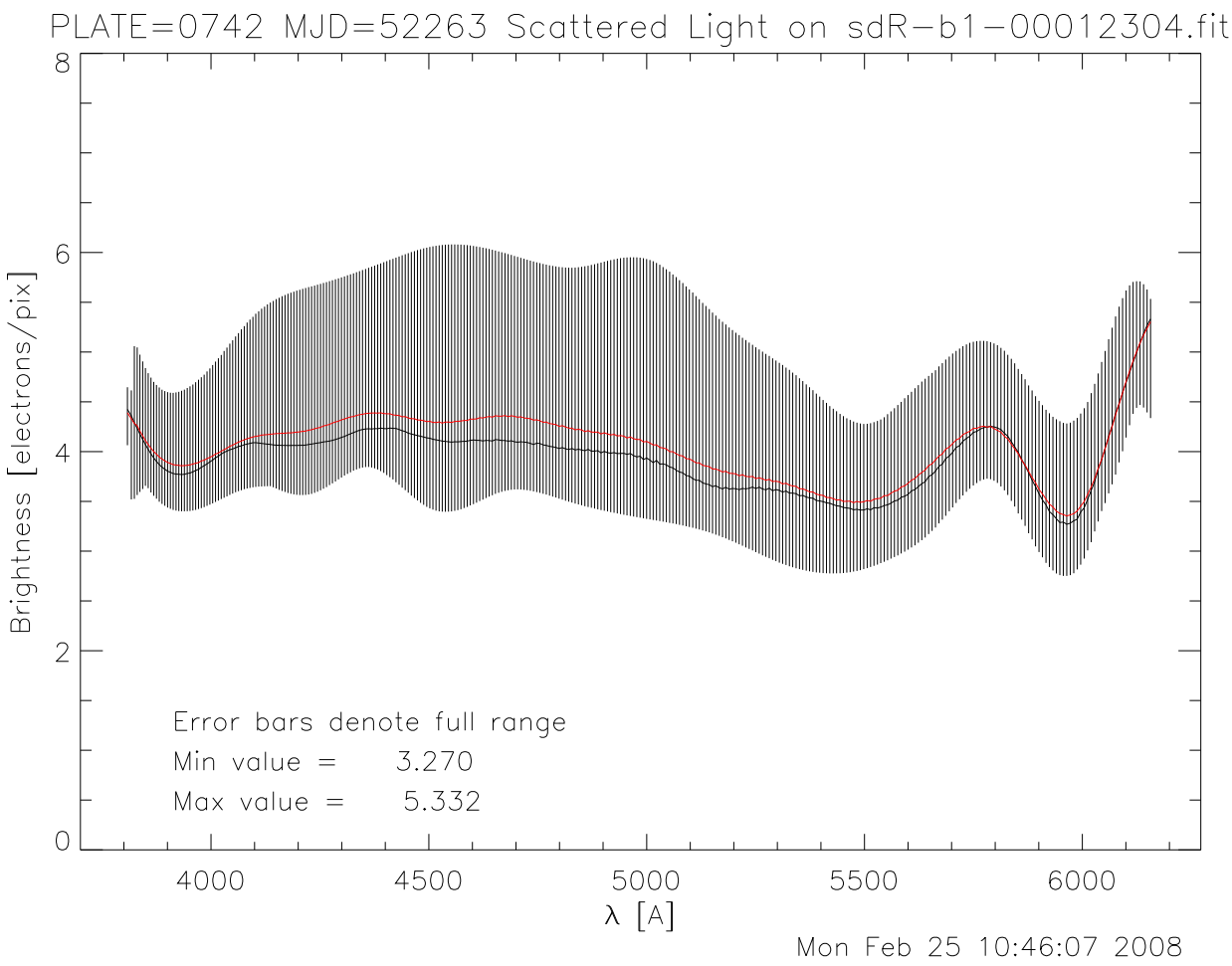

PLATE=0742 MJD=52263 sdR-b1-00012301.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.34 %
Fiber number
Focal Distance [mm]
Airmass

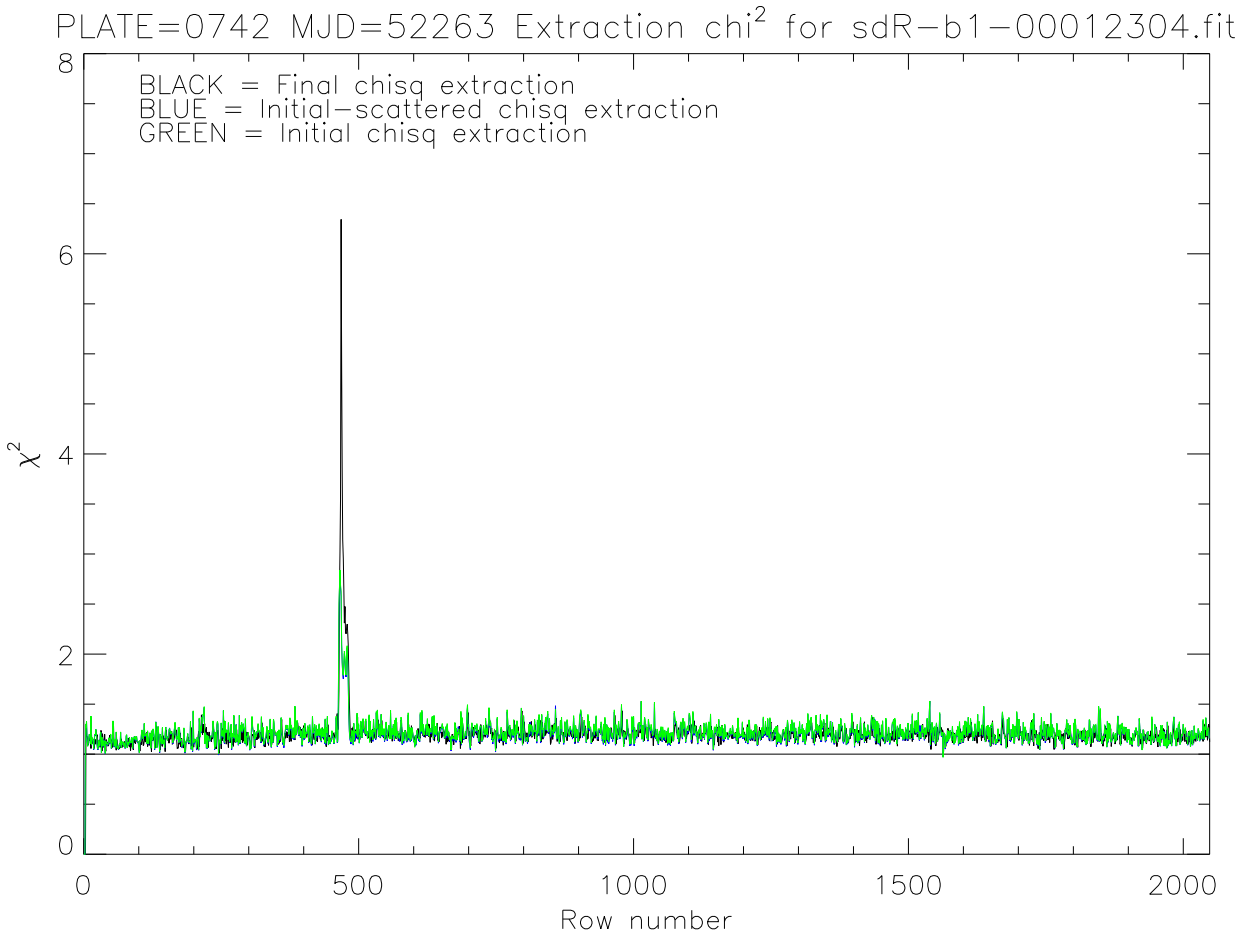

PLATE=0742 MJD=52263 Fiber-Flats for sdR-b1-00012302.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.513
Max value = 1.231
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 10:42:28 2008

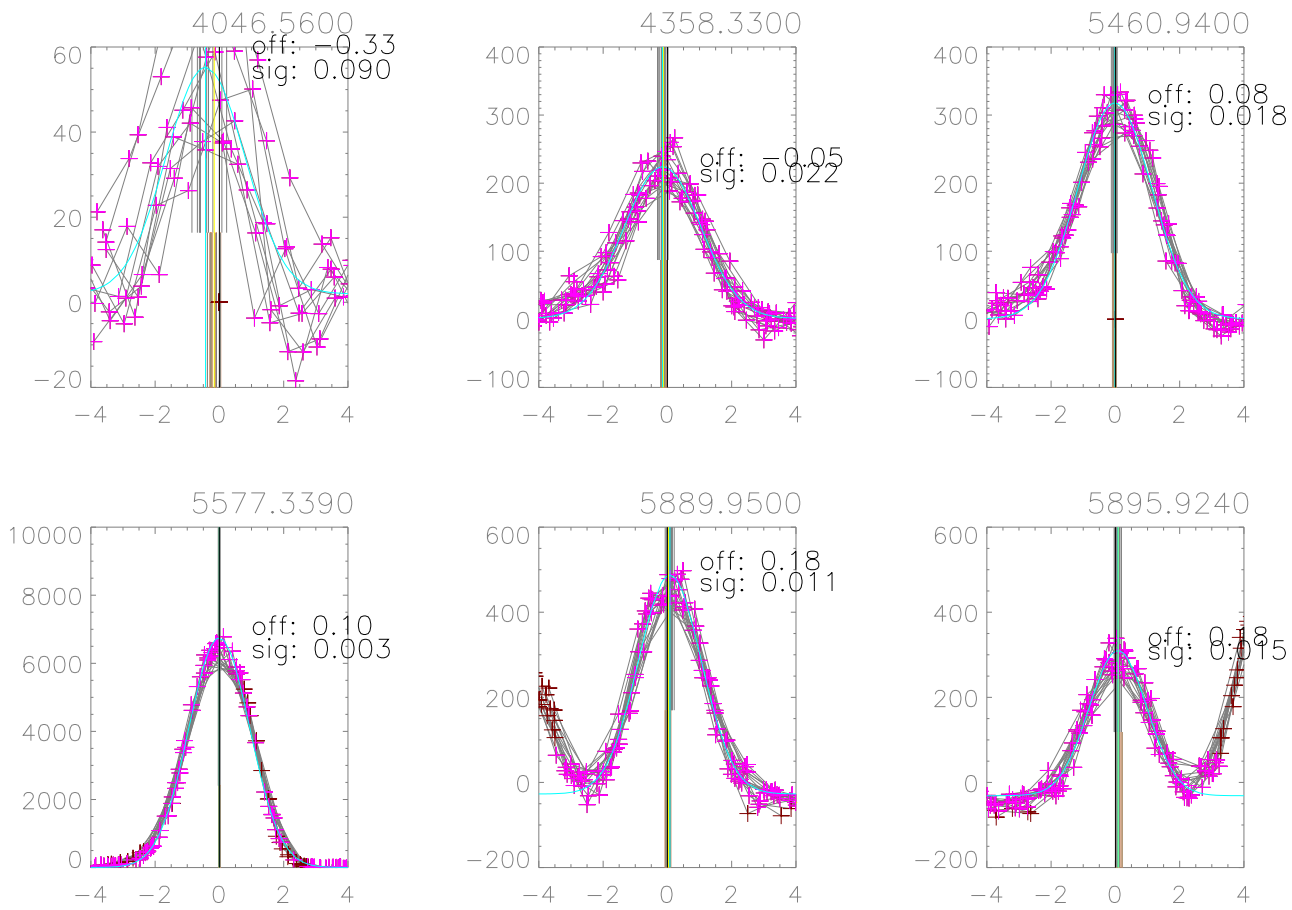

PLATE=0742 MJD=52263 Scattered Light before halo removal on sdR−b1−00012304.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
7.09
8.55
5.64

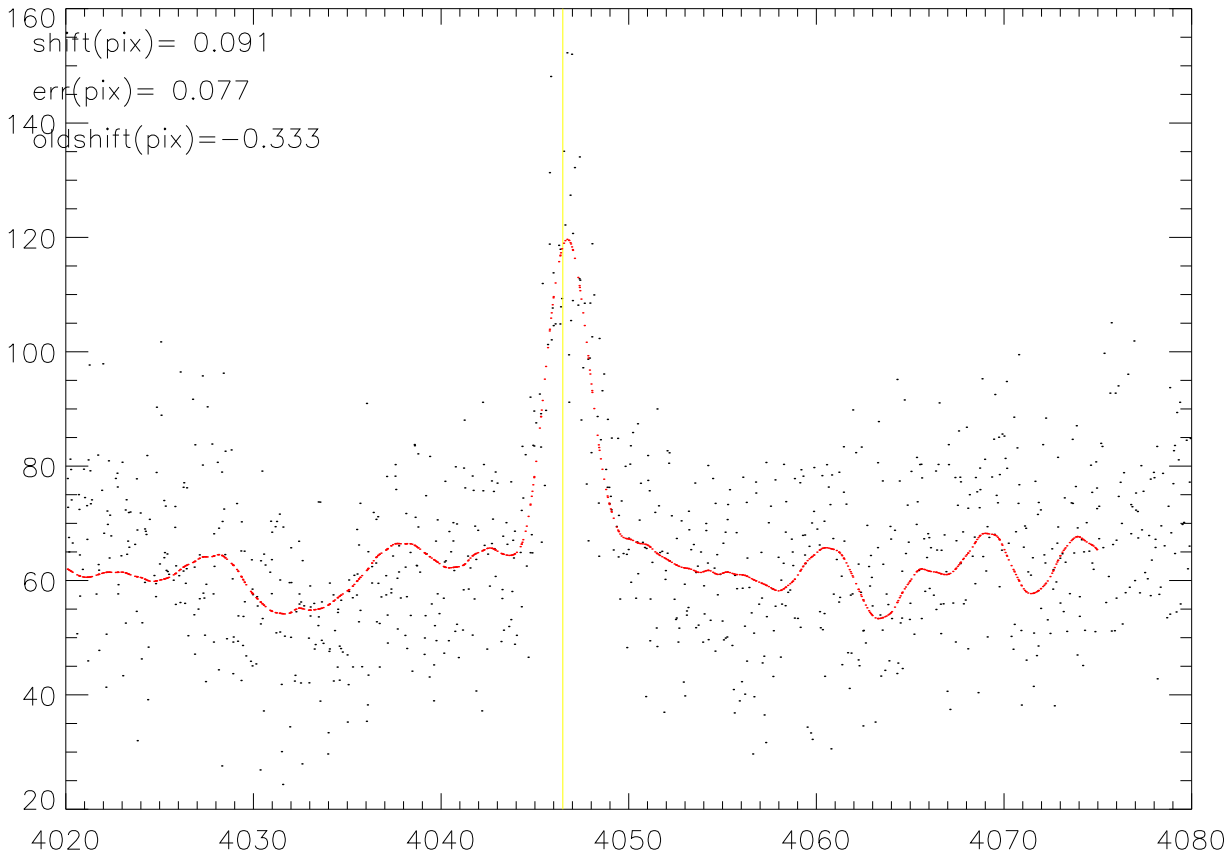

PLATE=0742 MJD=52263 Scattered Light before halo removal on sdR-b1-00012304.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.832
Max value = 7.922
Mon Feb 25 10:43:20 2008

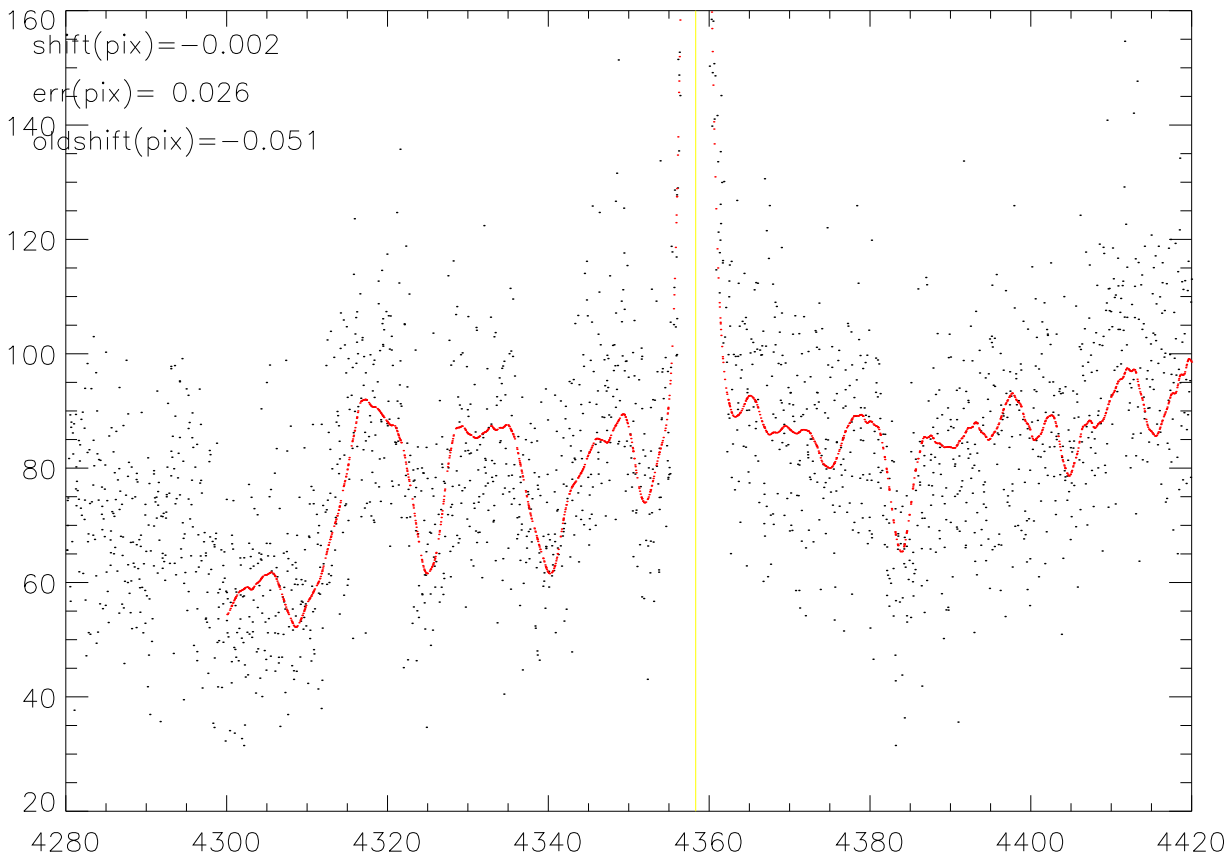

PLATE=0742 MJD=52263 Scattered Light on sdR-b1-00012304.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
4.27
3.36
5.18

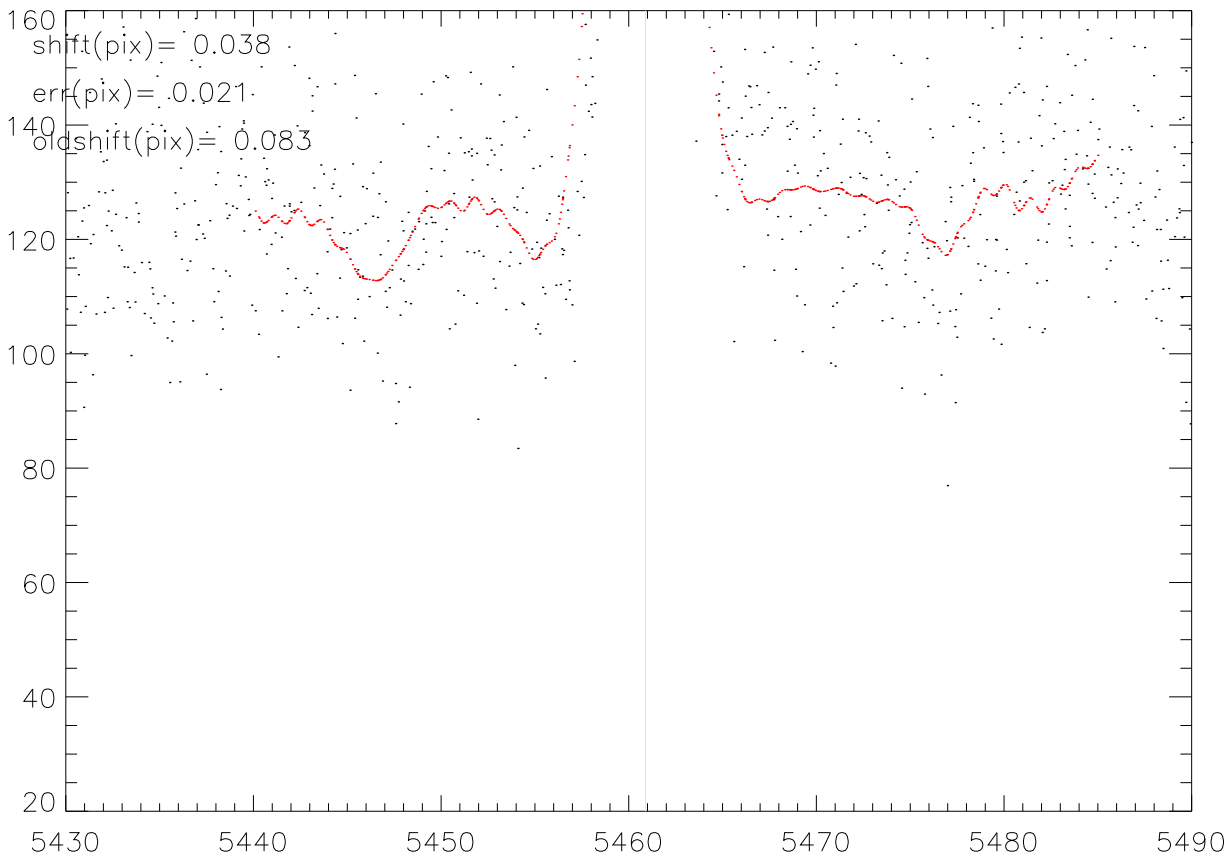

PLATE=0742 MJD=52263 Scattered Light on sdR-b1-00012304.fit
Brightness [electrons/pix]
0
2
4
6
8
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 3.270
Max value = 5.332
Mon Feb 25 10:46:07 2008

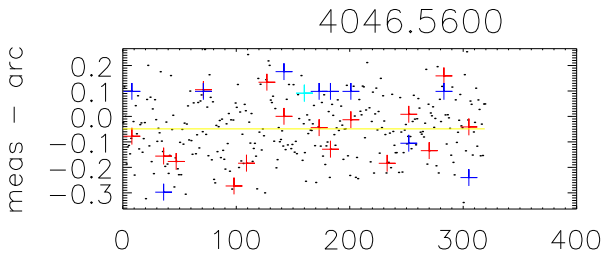

PLATE=0742 MJD=52263 Extraction chi^2 for sdR-b1-00012304.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

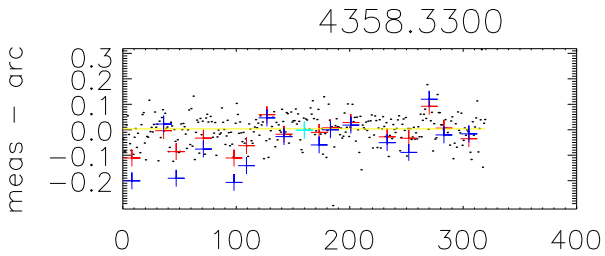

4046.5600
off: −0.33
sig: 0.090
4358.3300
off: −0.05
sig: 0.022
5460.9400
off: 0.08
sig: 0.018
5577.3390
off: 0.10
sig: 0.003
5889.9500
off: 0.18
sig: 0.011
5895.9240
off: 0.18
sig: 0.015

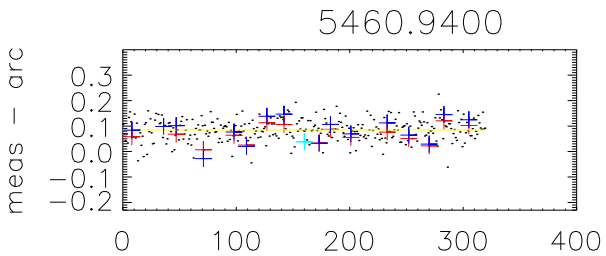

shift(pix)= 0.091
err(pix)= 0.077
oldshift(pix)=-0.333
160
140
120
100
80
60
40
20
4020
4030
4040
4050
4060
4070
4080

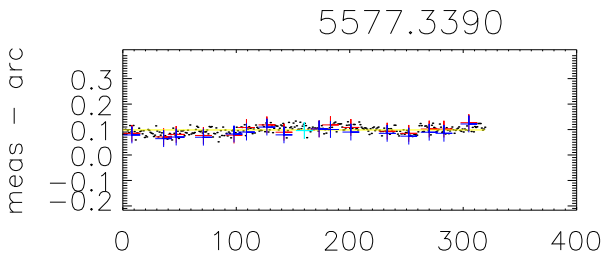

shift(pix)=−0.002
err(pix)= 0.026
oldshift(pix)=−0.051
160
140
120
100
80
60
40
20
4280
4300
4320
4340
4360
4380
4400
4420

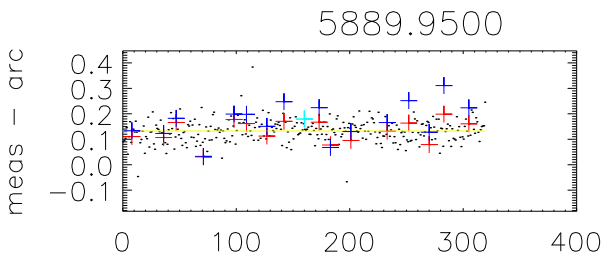

shift(pix)= 0.038
err(pix)= 0.021
oldshift(pix)= 0.083
160
140
120
100
80
60
40
20
5430
5440
5450
5460
5470
5480
5490

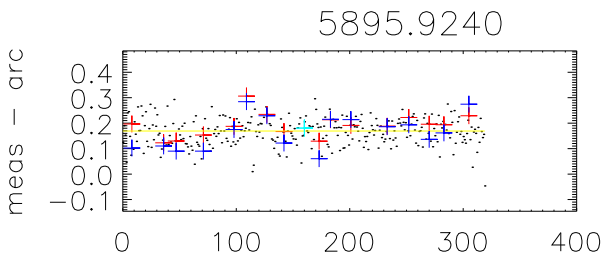

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

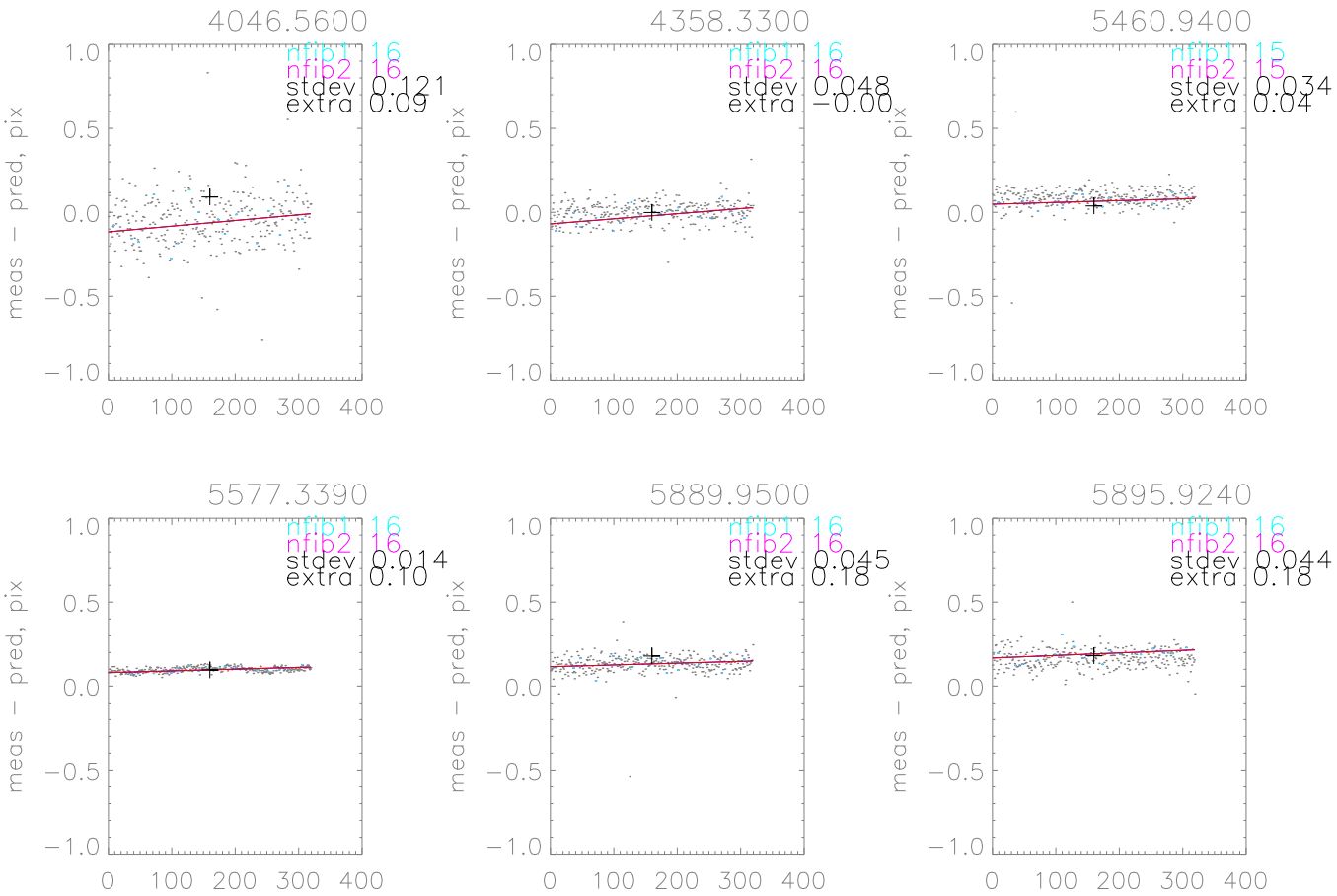

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

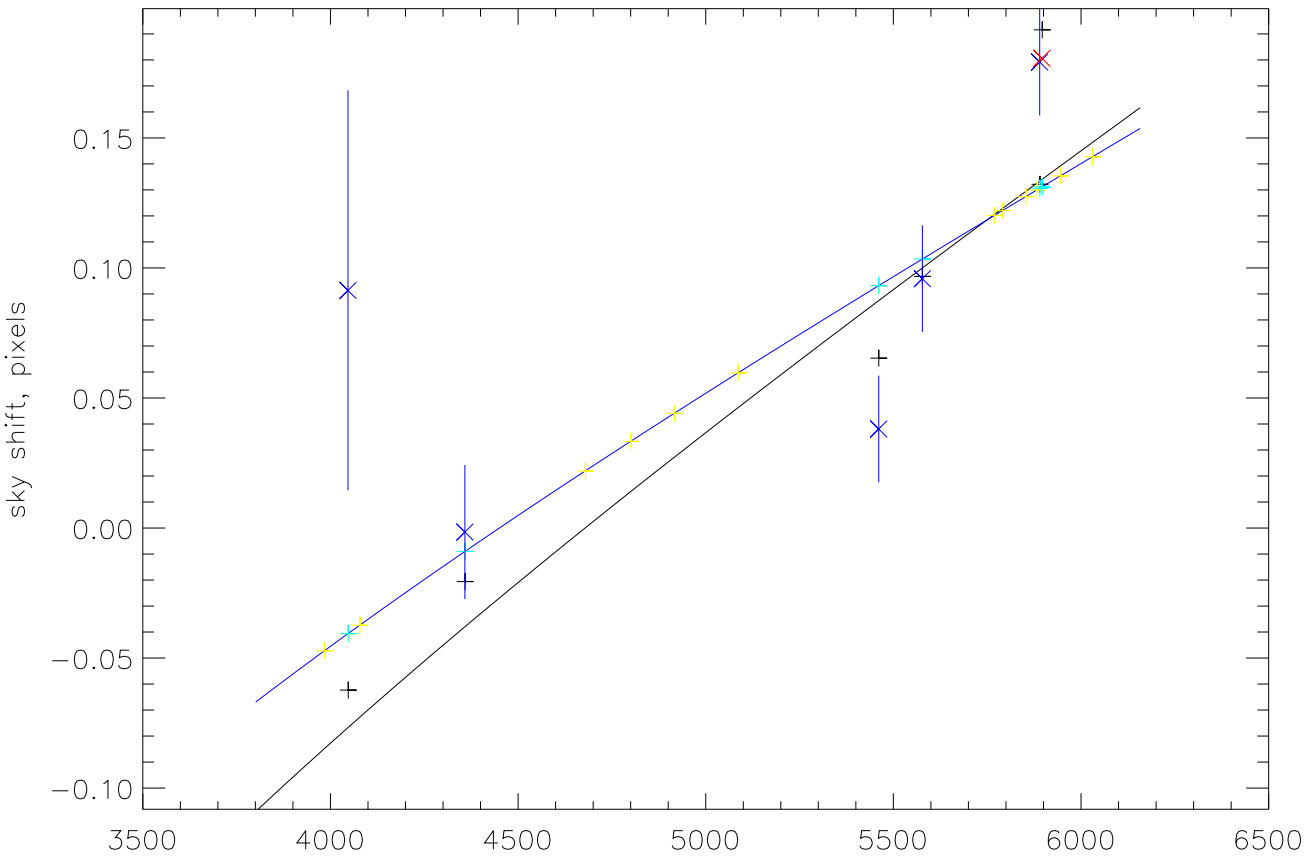

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

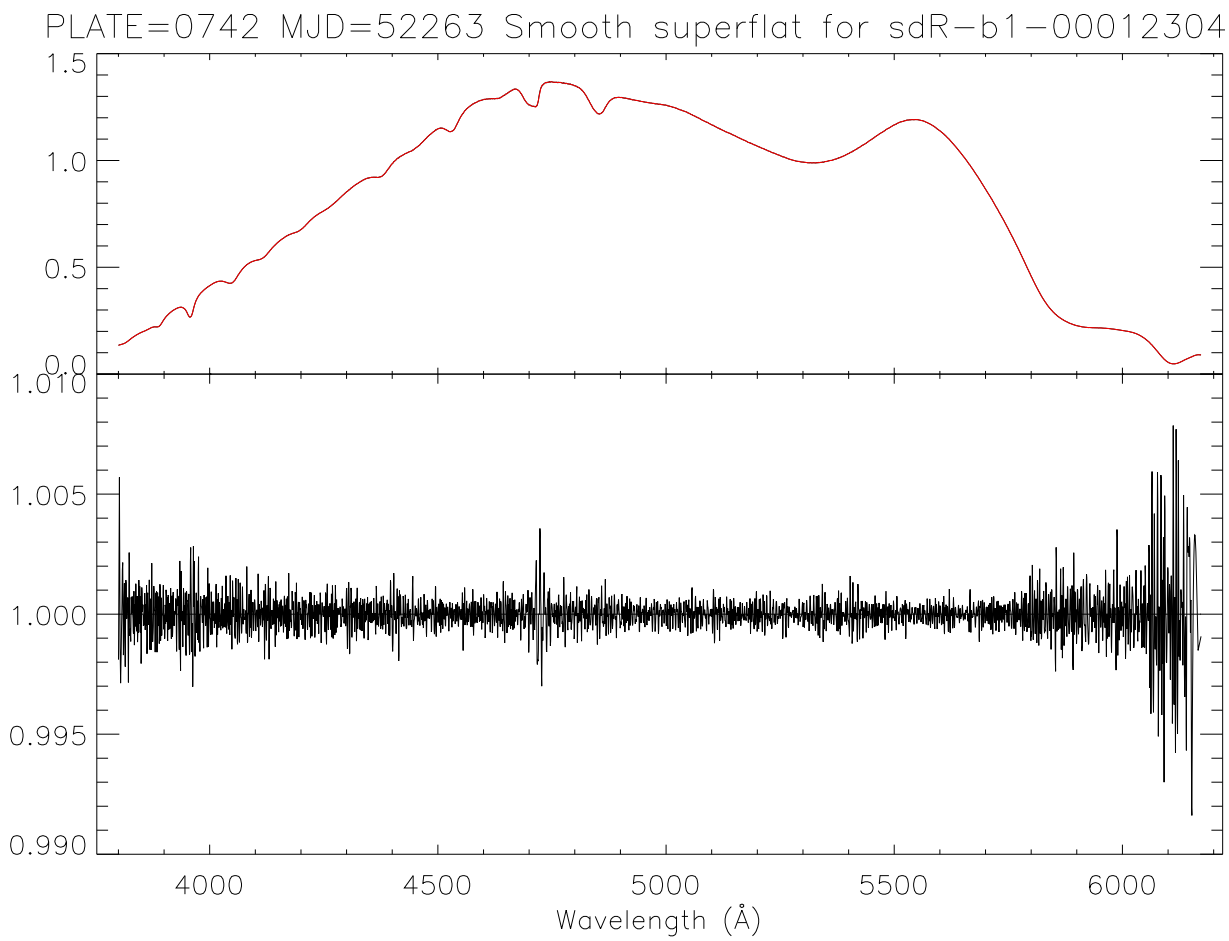

5889.9500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

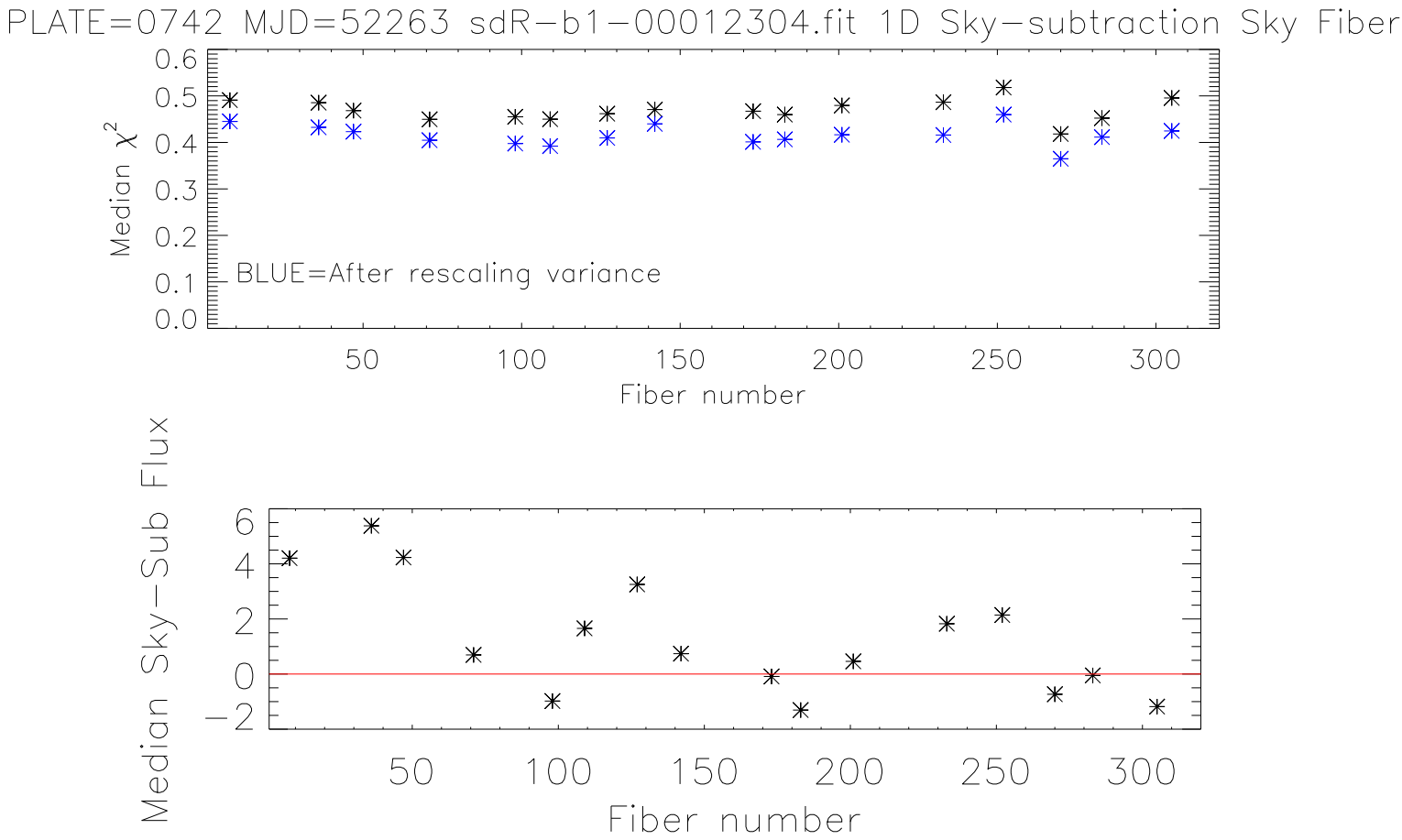

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

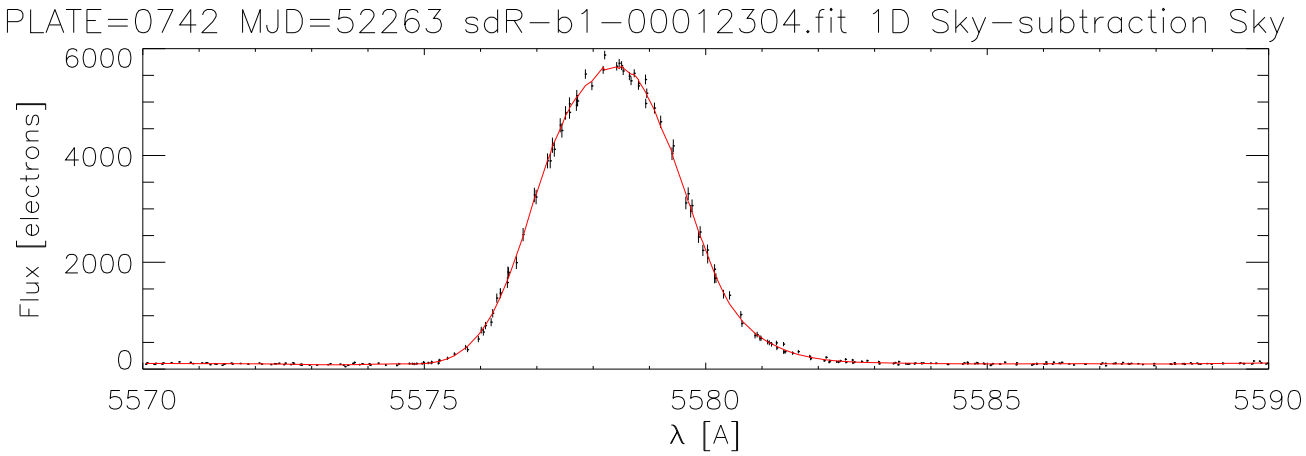

4046.5600
nfib1 16
nfib2 16
stdev 0.121
extra 0.09
4358.3300
nfib1 16
nfib2 16
stdev 0.048
extra −0.00
5460.9400
nfib1 15
nfib2 15
stdev 0.034
extra 0.04
5577.3390
nfib1 16
nfib2 16
stdev 0.014
extra 0.10
5889.9500
nfib1 16
nfib2 16
stdev 0.045
extra 0.18
5895.9240
nfib1 16
nfib2 16
stdev 0.044
extra 0.18
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

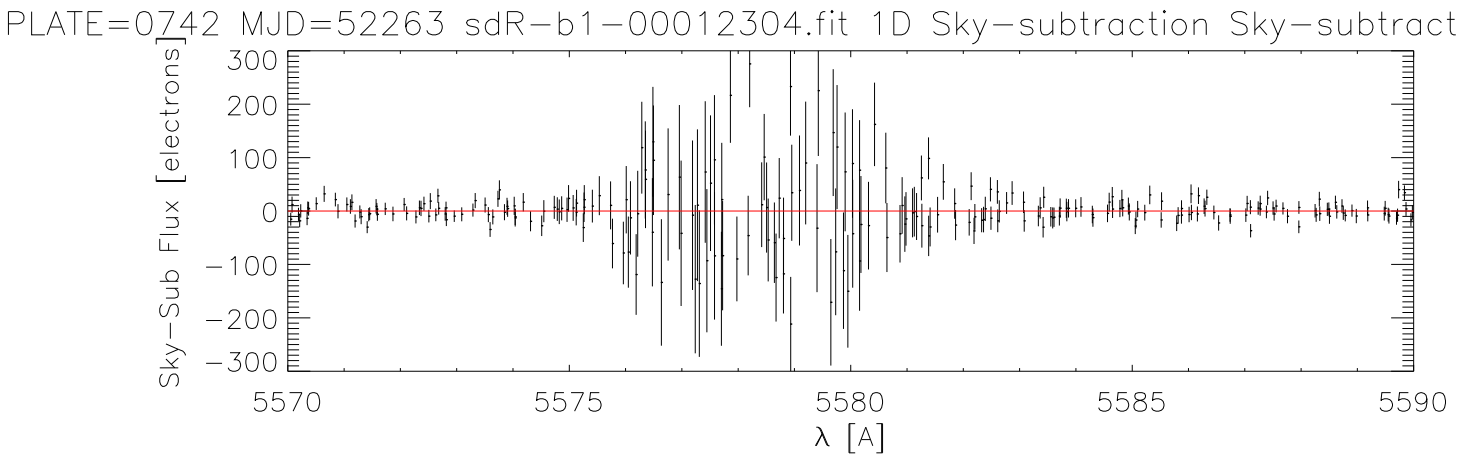

sky shift, pixels
0.15
0.10
0.05
0.00
−0.05
−0.10
3500
4000
4500
5000
5500
6000
6500

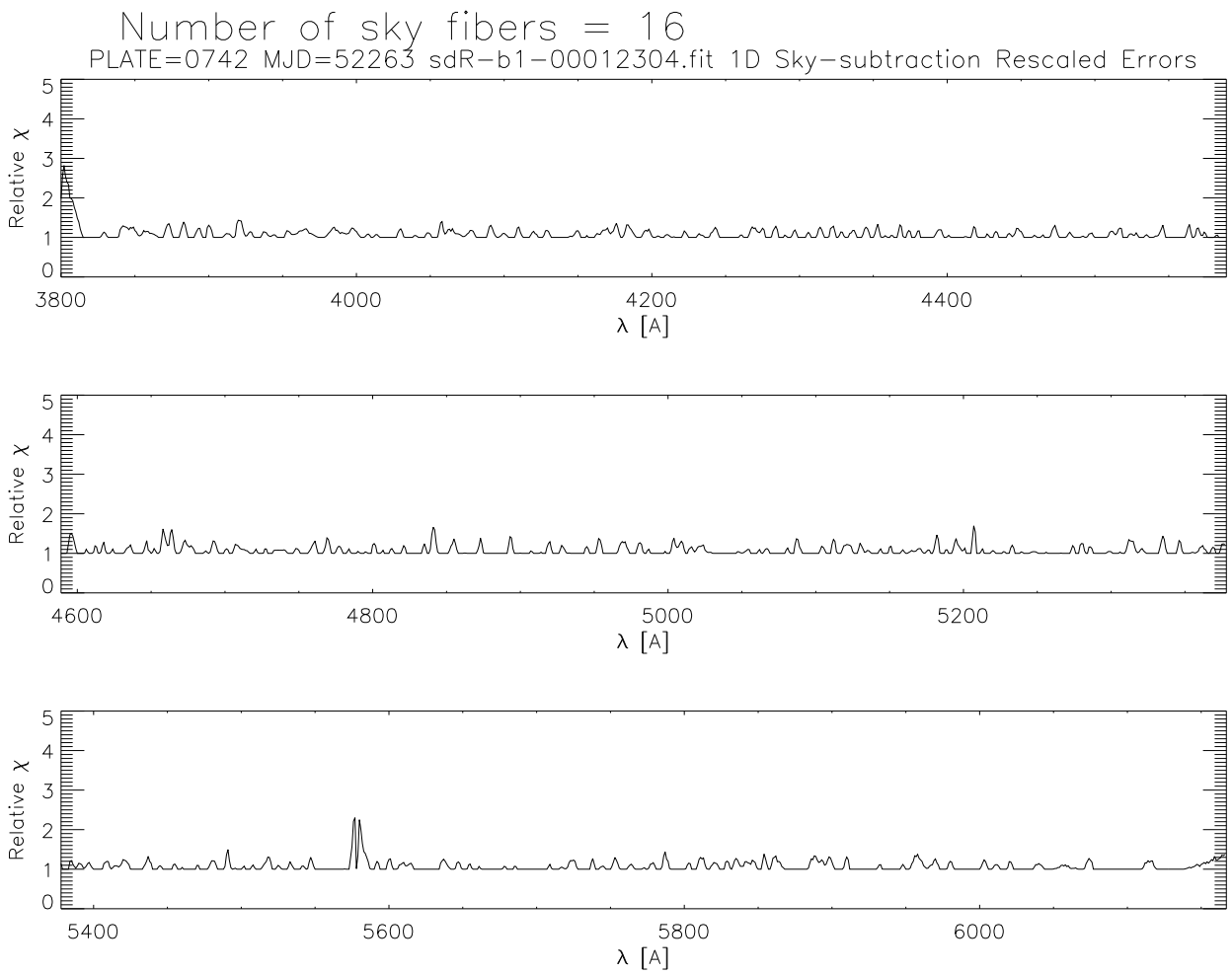
es= 0.0000

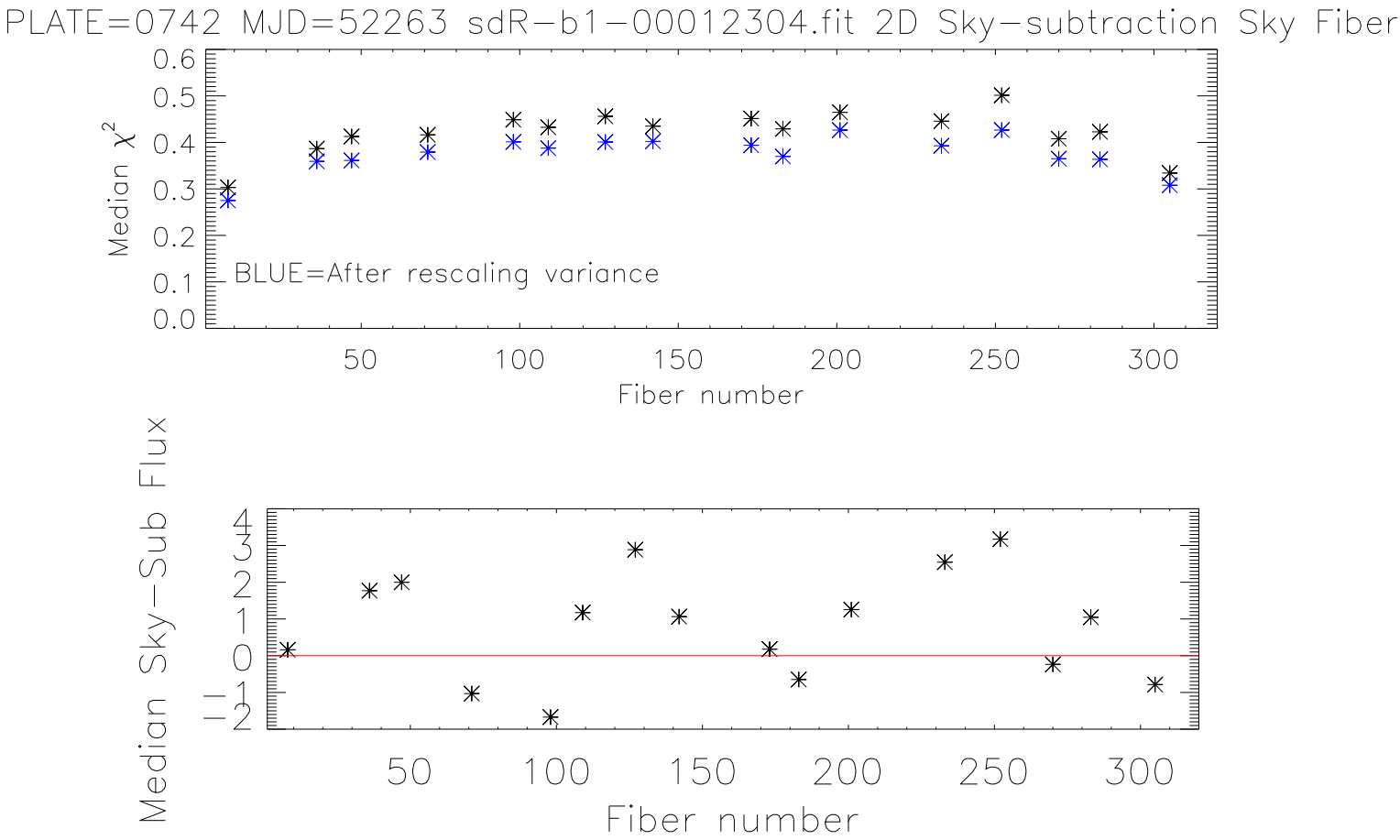

PLATE=0742 MJD=52263 Smooth superflat for sdR-b1-00012304.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

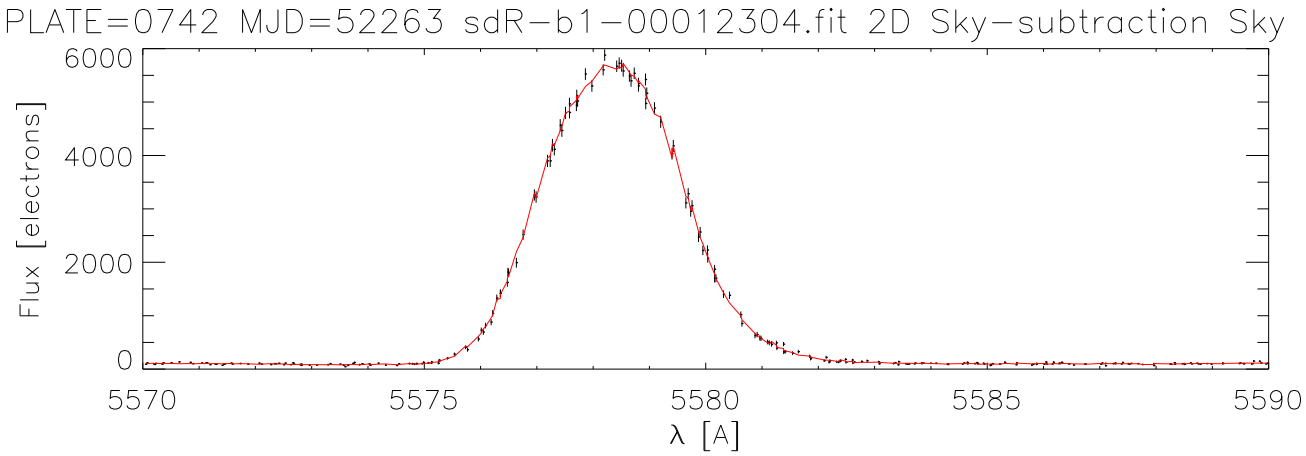

PLATE=0742 MJD=52263 sdR-b1-00012304.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

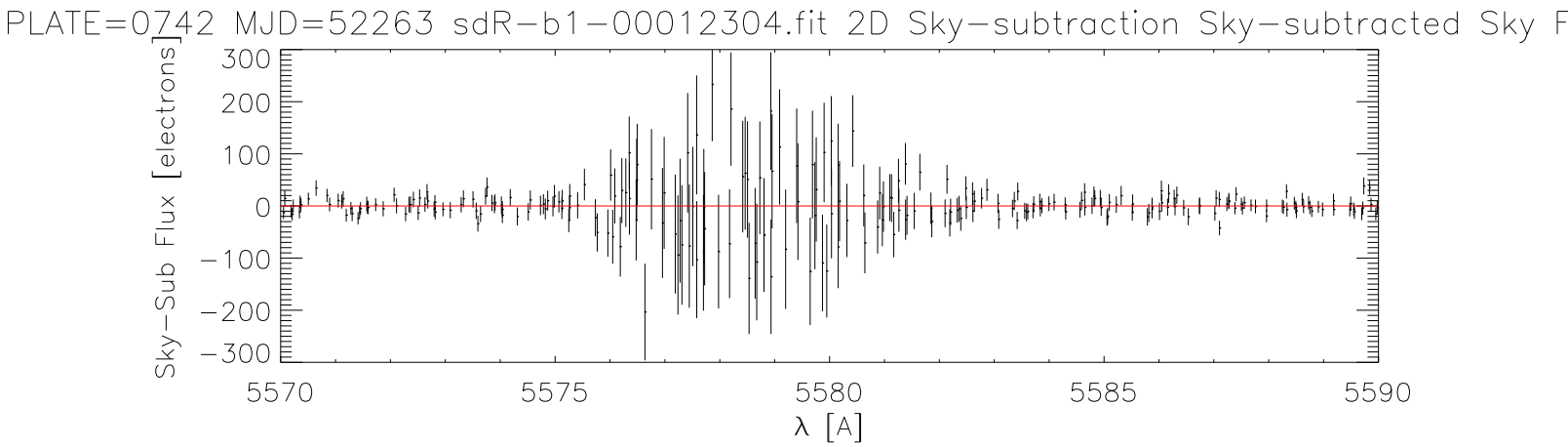

PLATE=0742 MJD=52263 sdR-b1-00012304.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

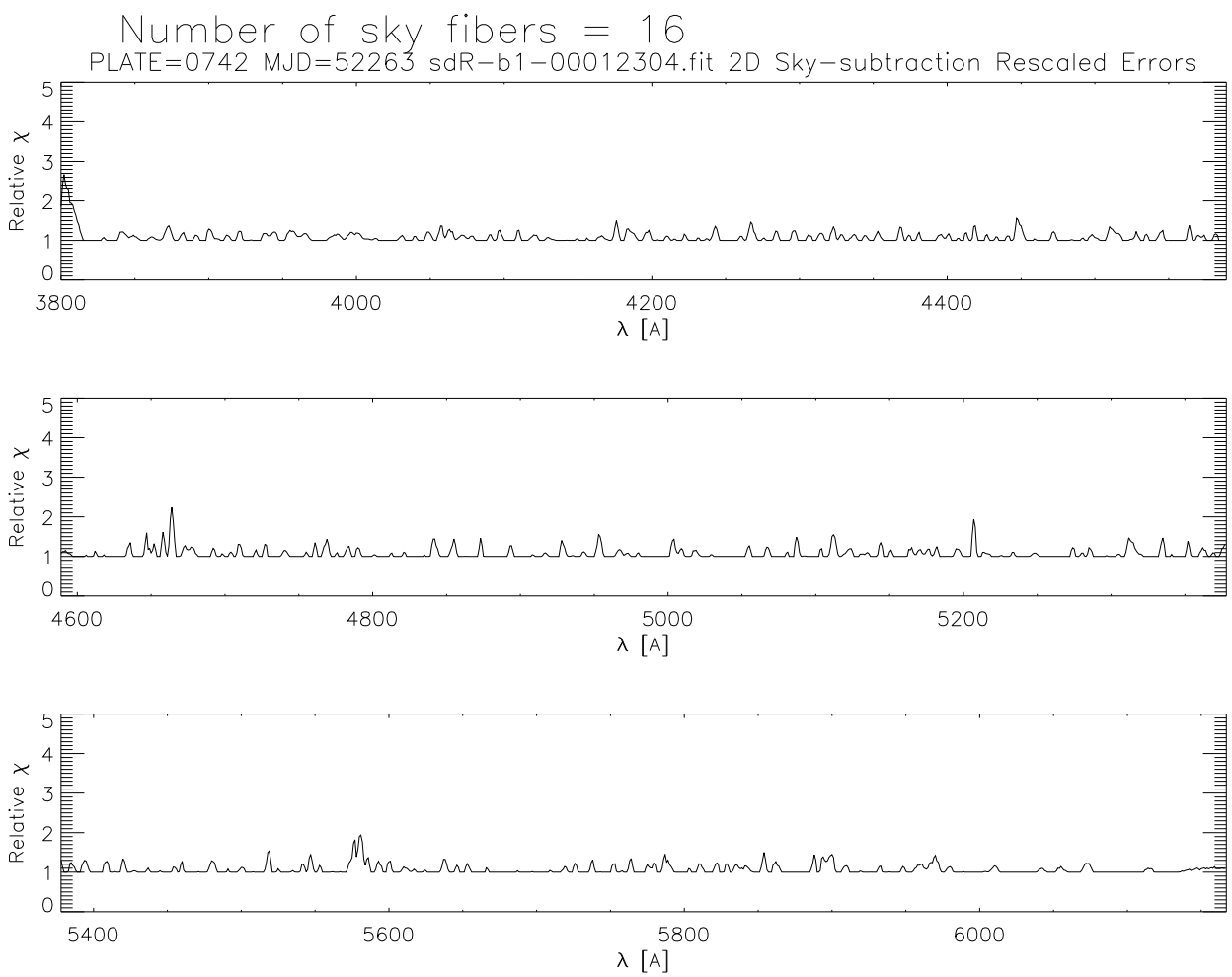

PLATE=0742 MJD=52263 sdR-b1-00012304.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

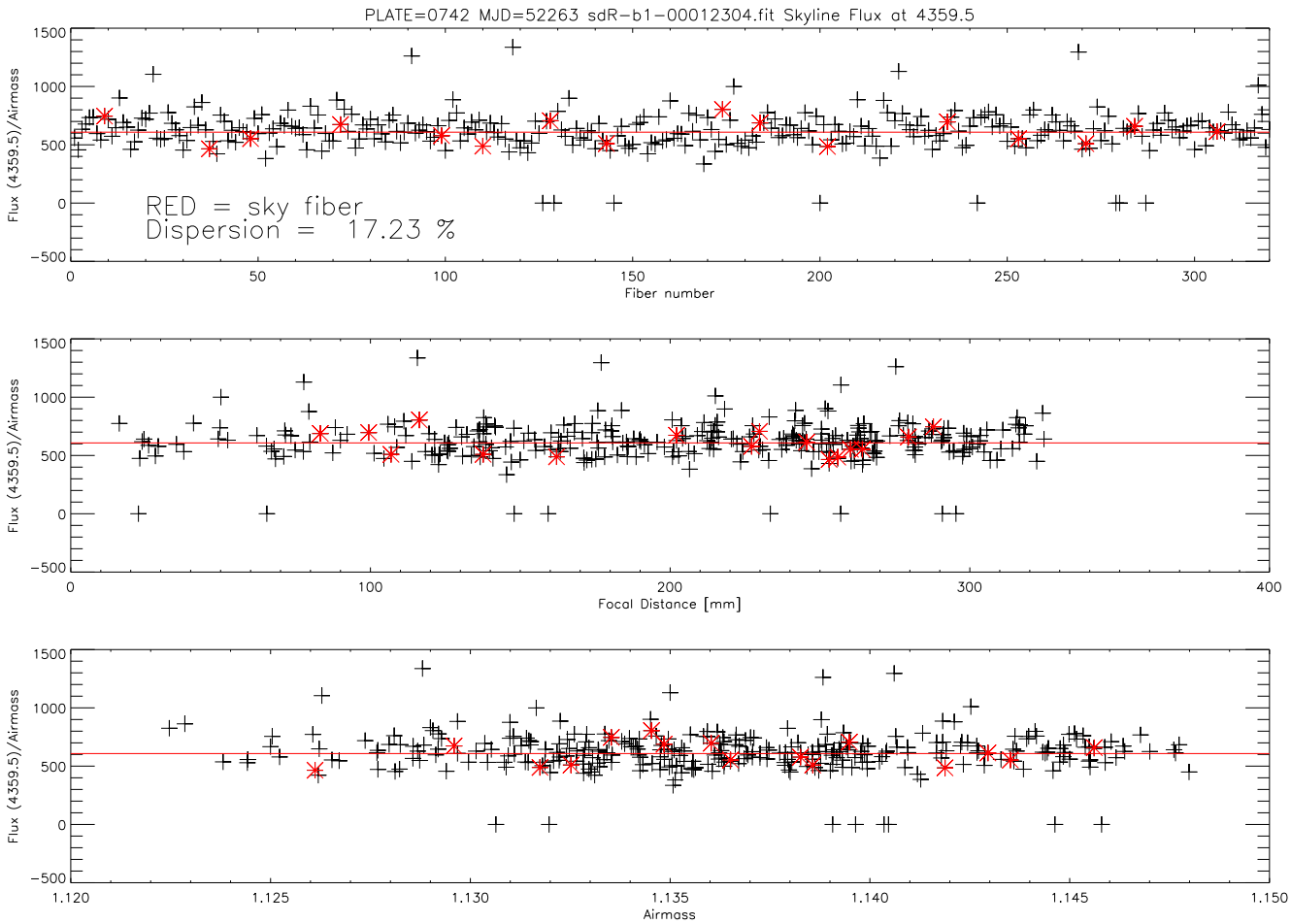

Number of sky fibers = 16
PLATE=0742 MJD=52263 sdR-b1-00012304.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

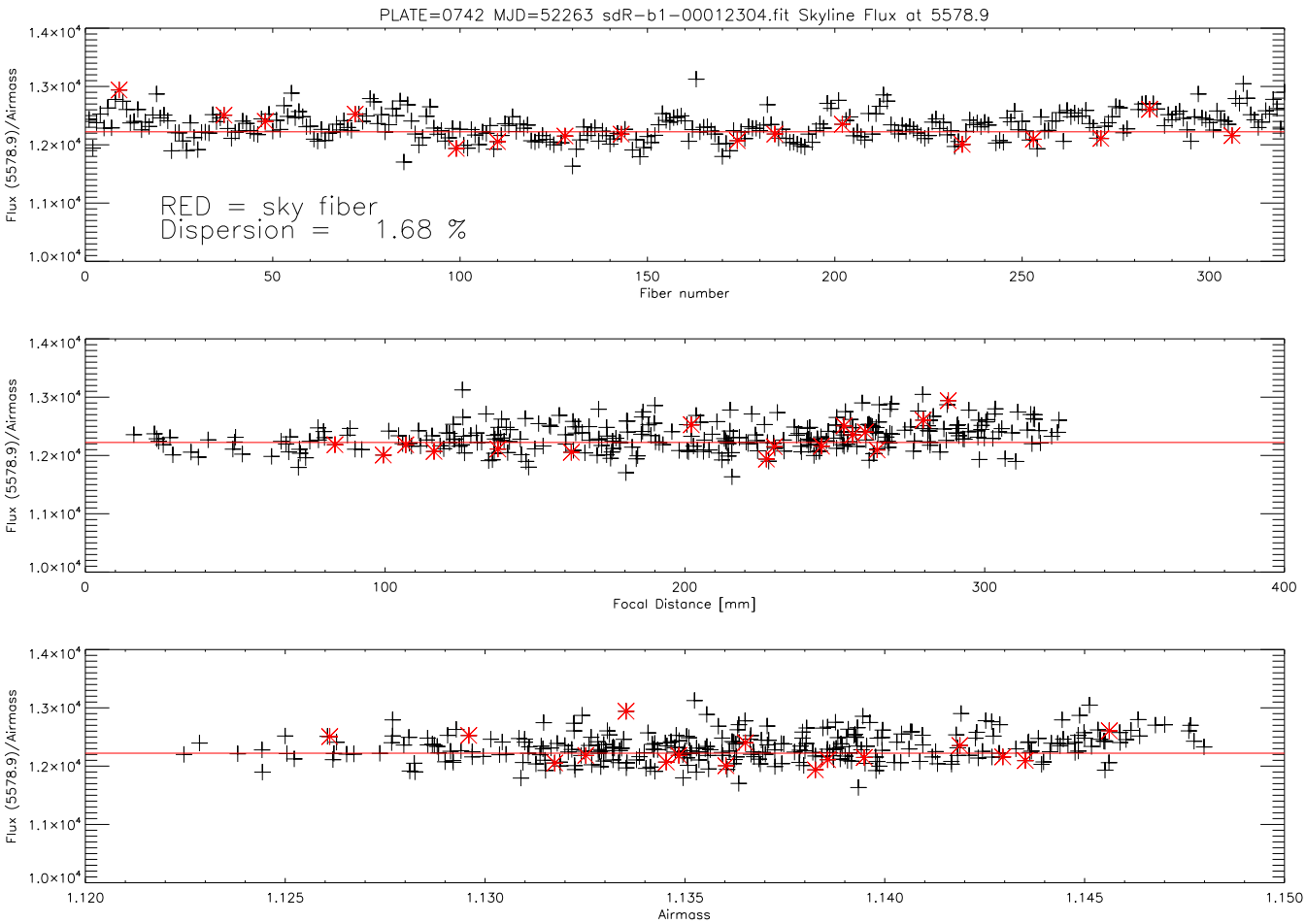

PLATE=0742 MJD=52263 sdR-b1-00012304.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

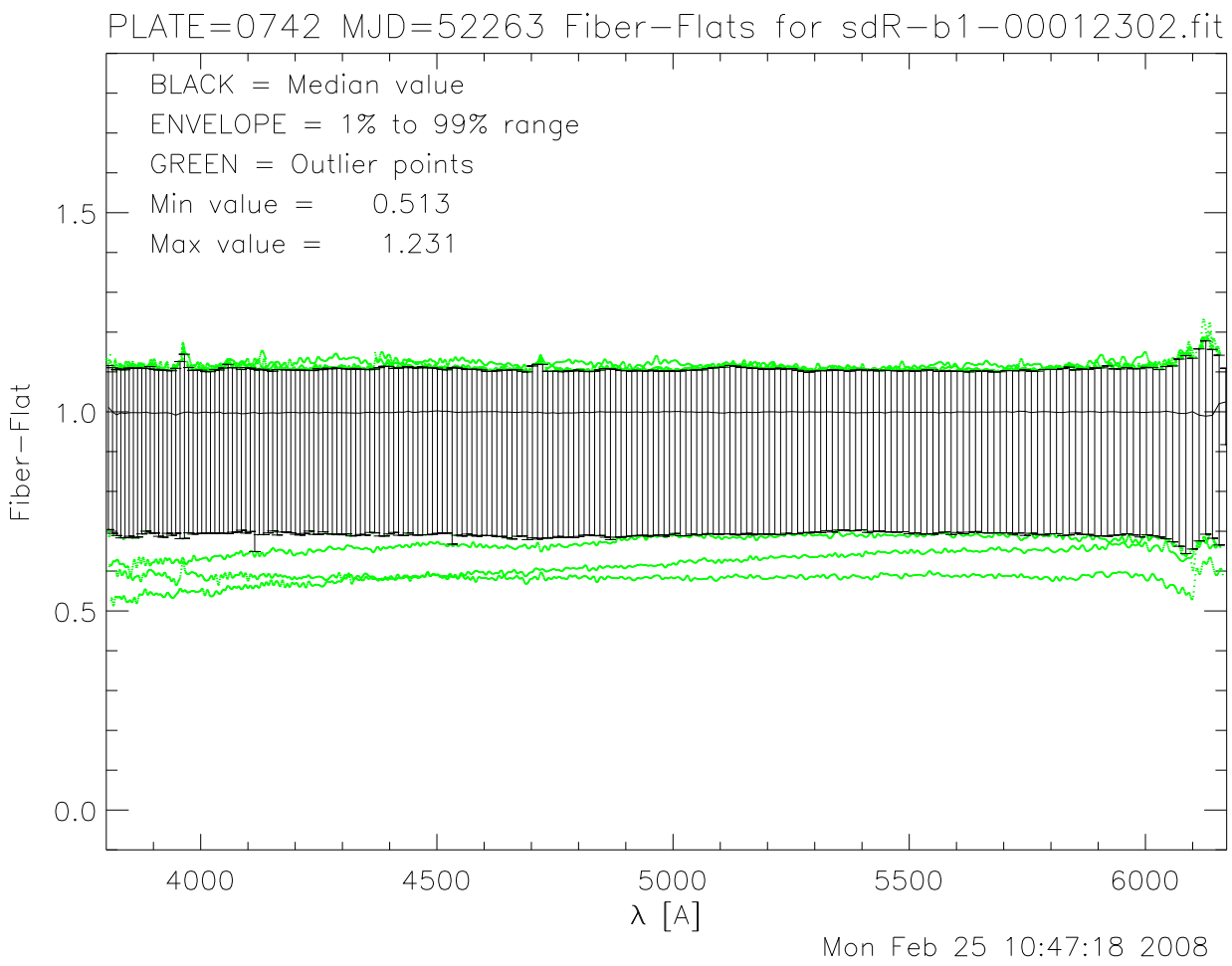

PLATE=0742 MJD=52263 sdR-b1-00012304.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

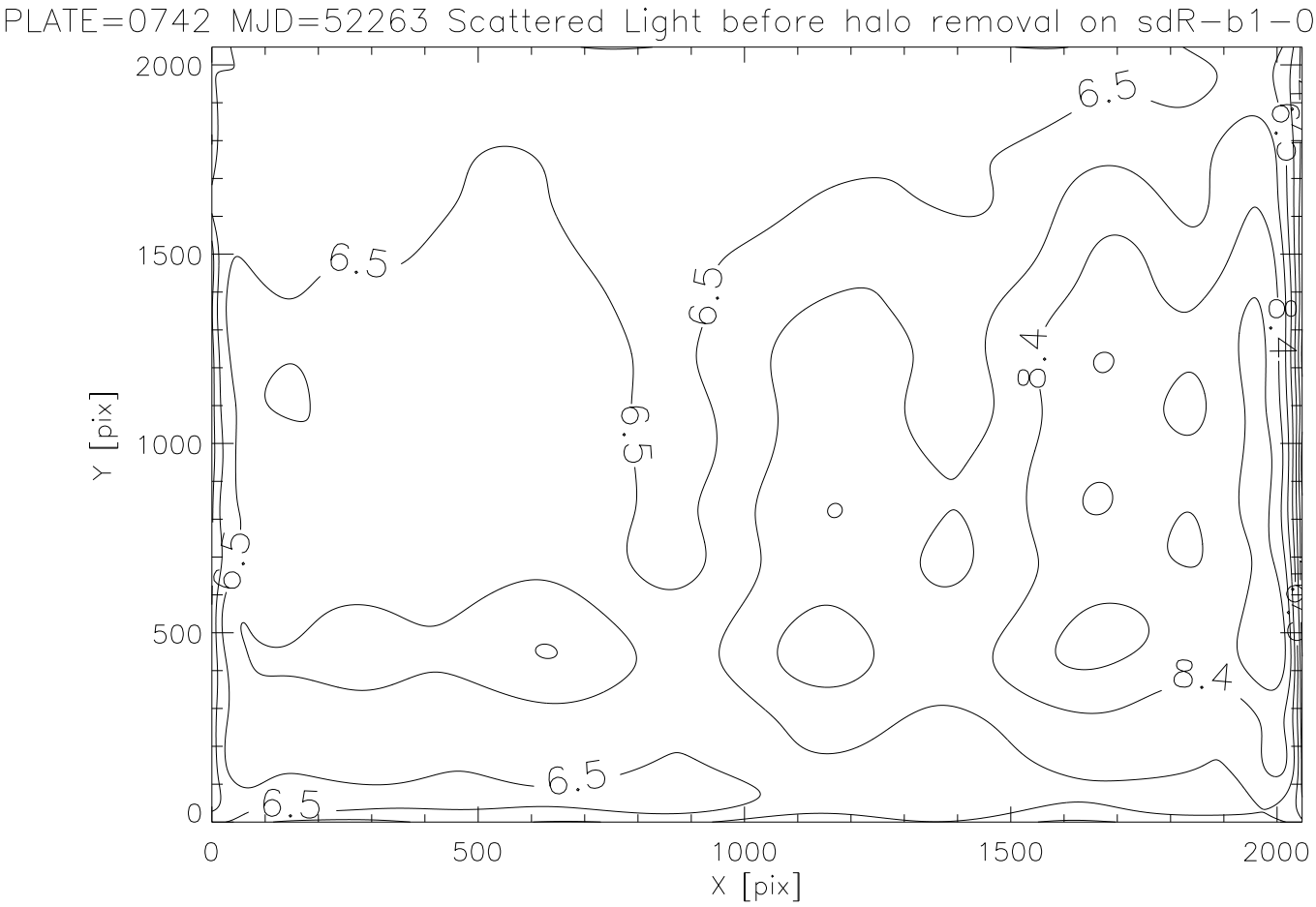

PLATE=0742 MJD=52263 sdR-b1-00012304.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

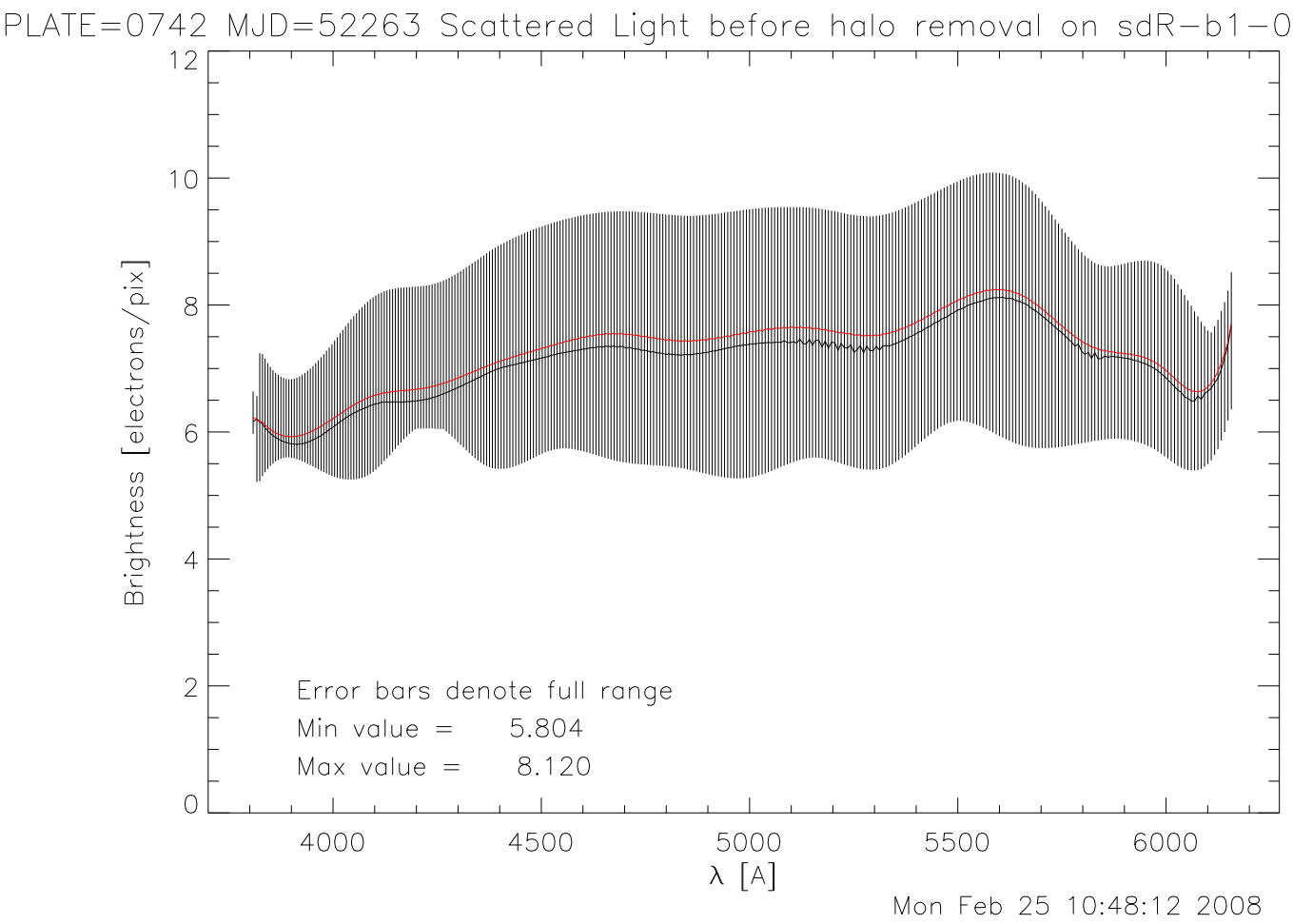

Number of sky fibers = 16
PLATE=0742 MJD=52263 sdR-b1-00012304.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

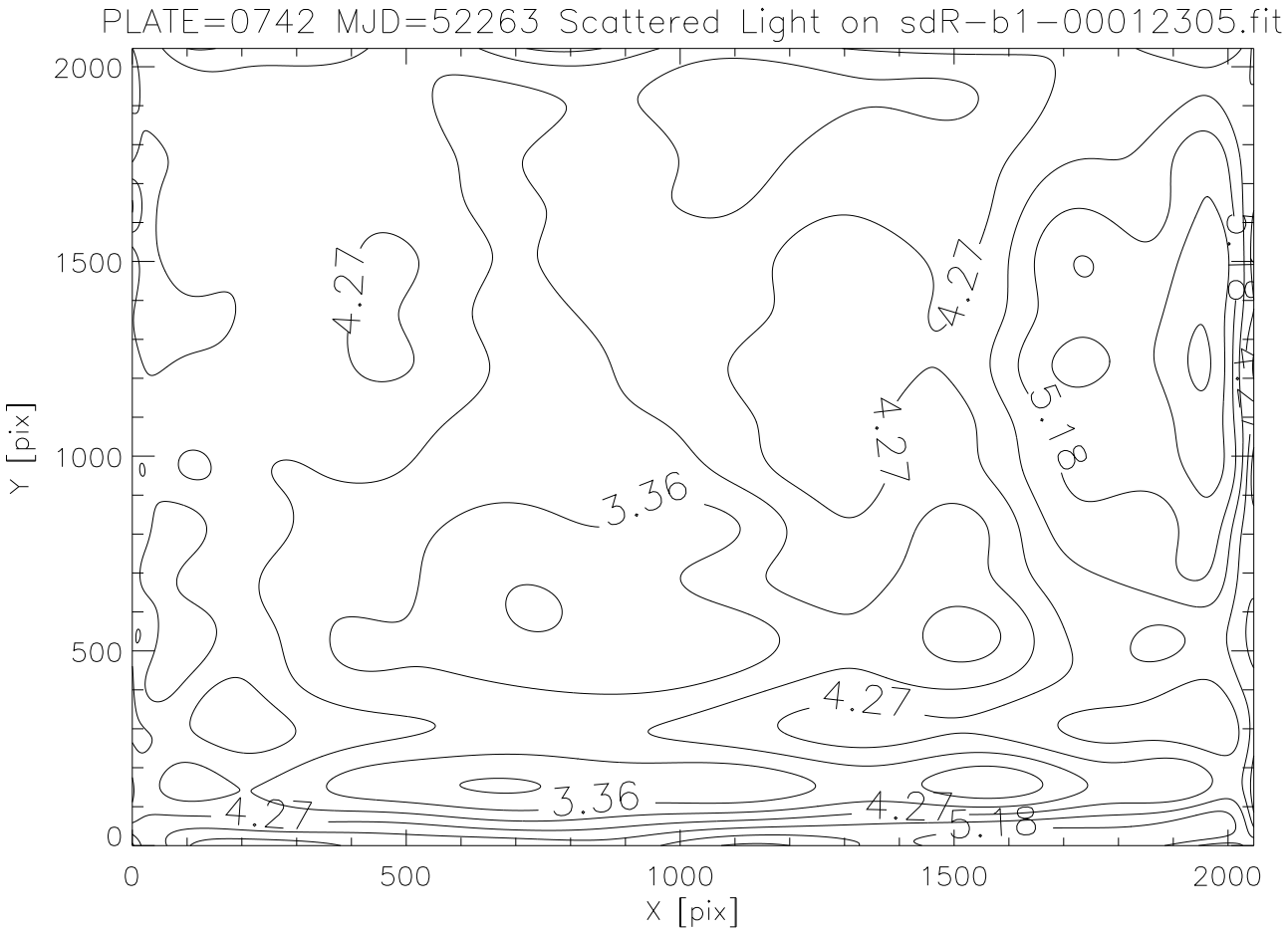

PLATE=0742 MJD=52263 sdR-b1-00012304.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 17.23 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

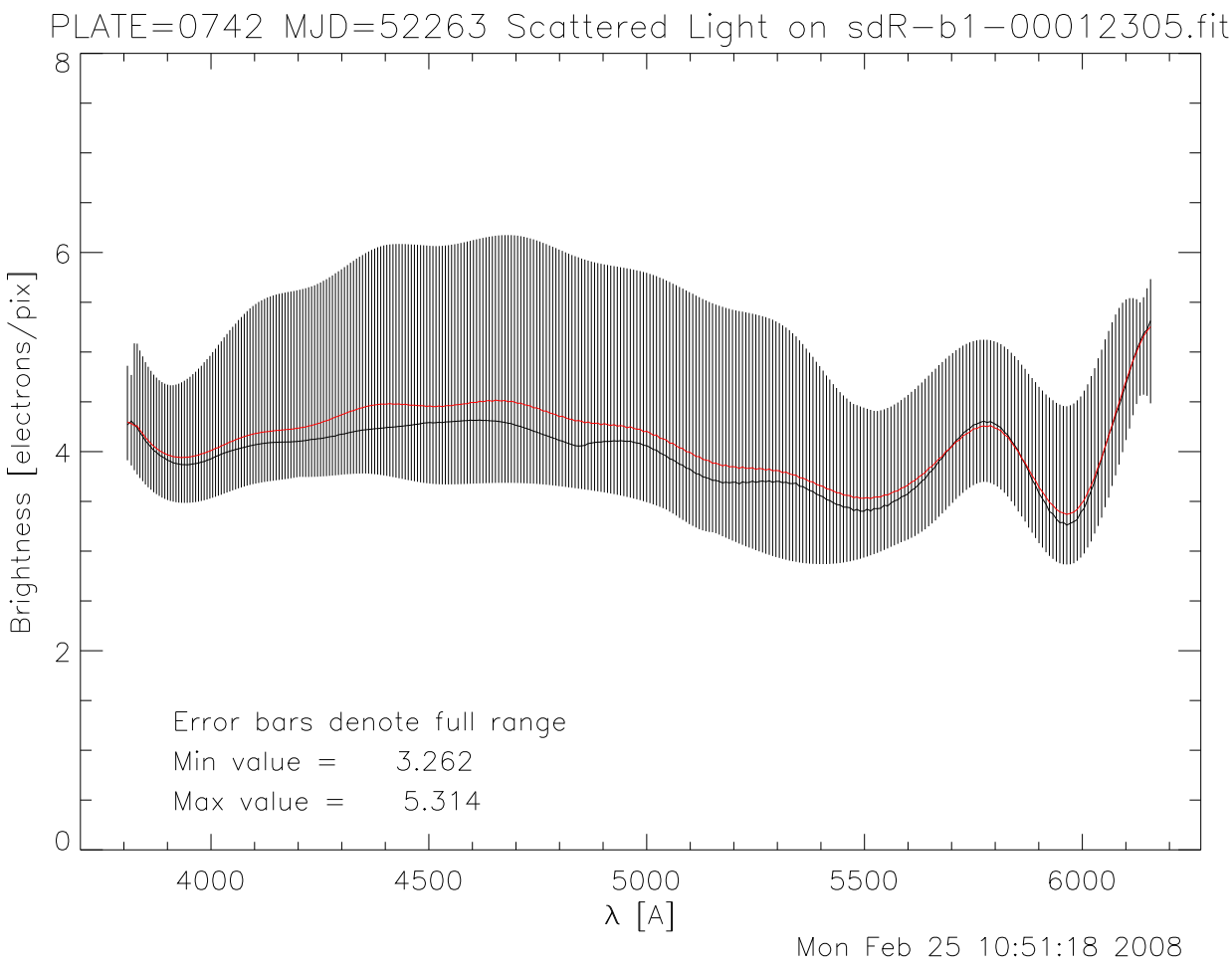

PLATE=0742 MJD=52263 sdR-b1-00012304.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.68 %
Fiber number
Focal Distance [mm]
Airmass

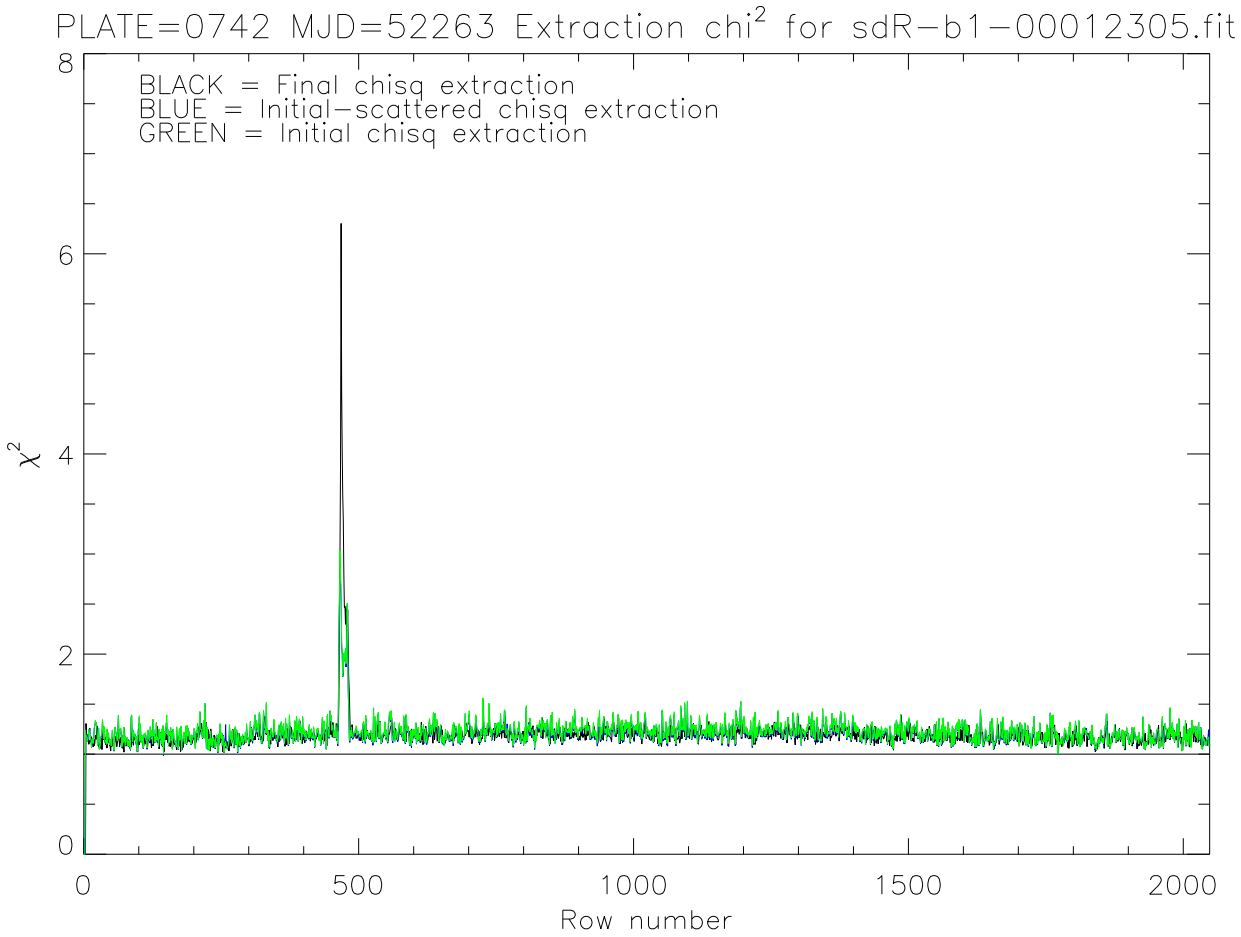

PLATE=0742 MJD=52263 Fiber-Flats for sdR-b1-00012302.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.513
Max value = 1.231
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 10:47:18 2008

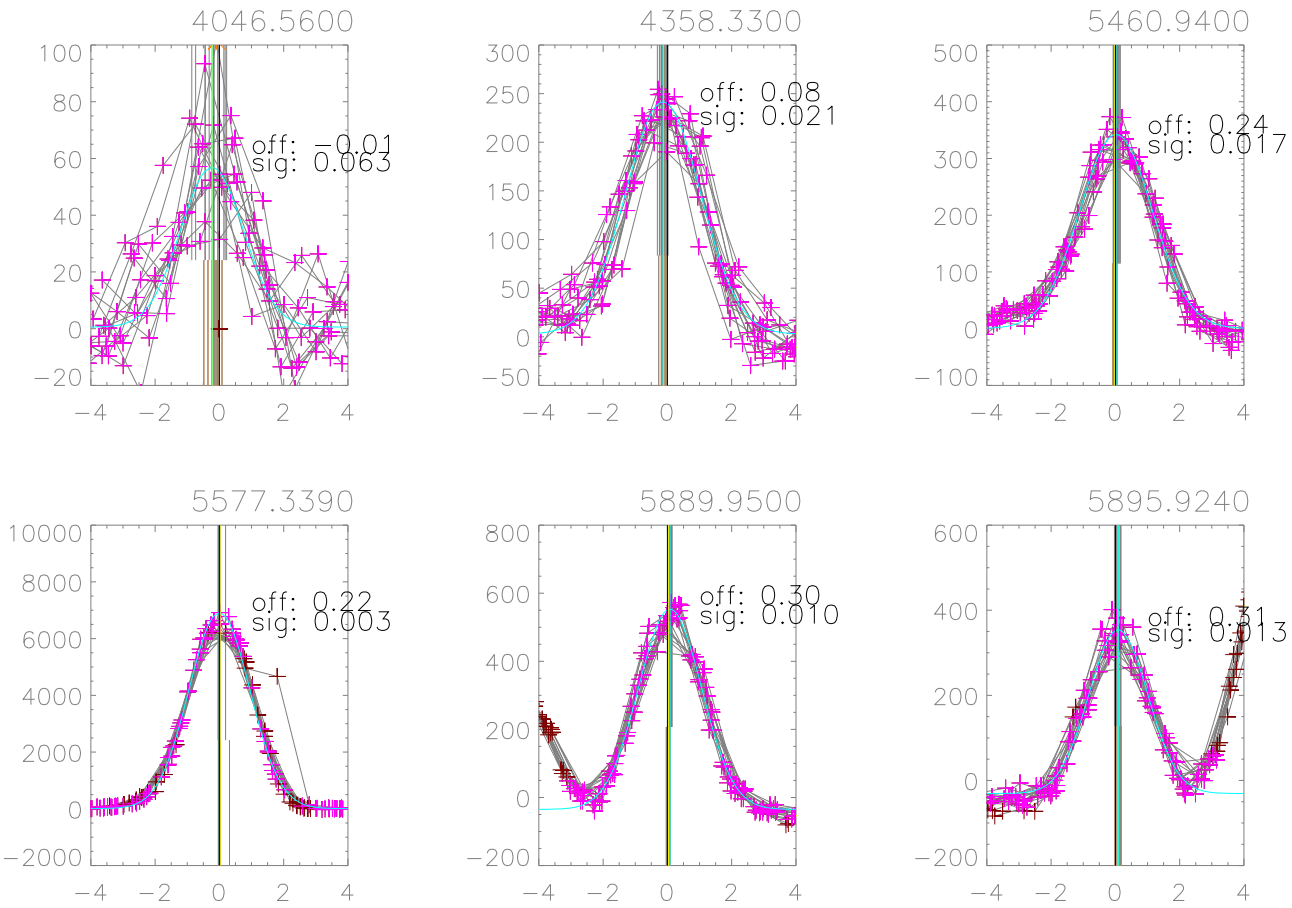

PLATE=0742 MJD=52263 Scattered Light before halo removal on sdR-b1-00012305.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
6.5
6.5
6.5
6.5
6.5
6.5
8.4
8.4
8.4

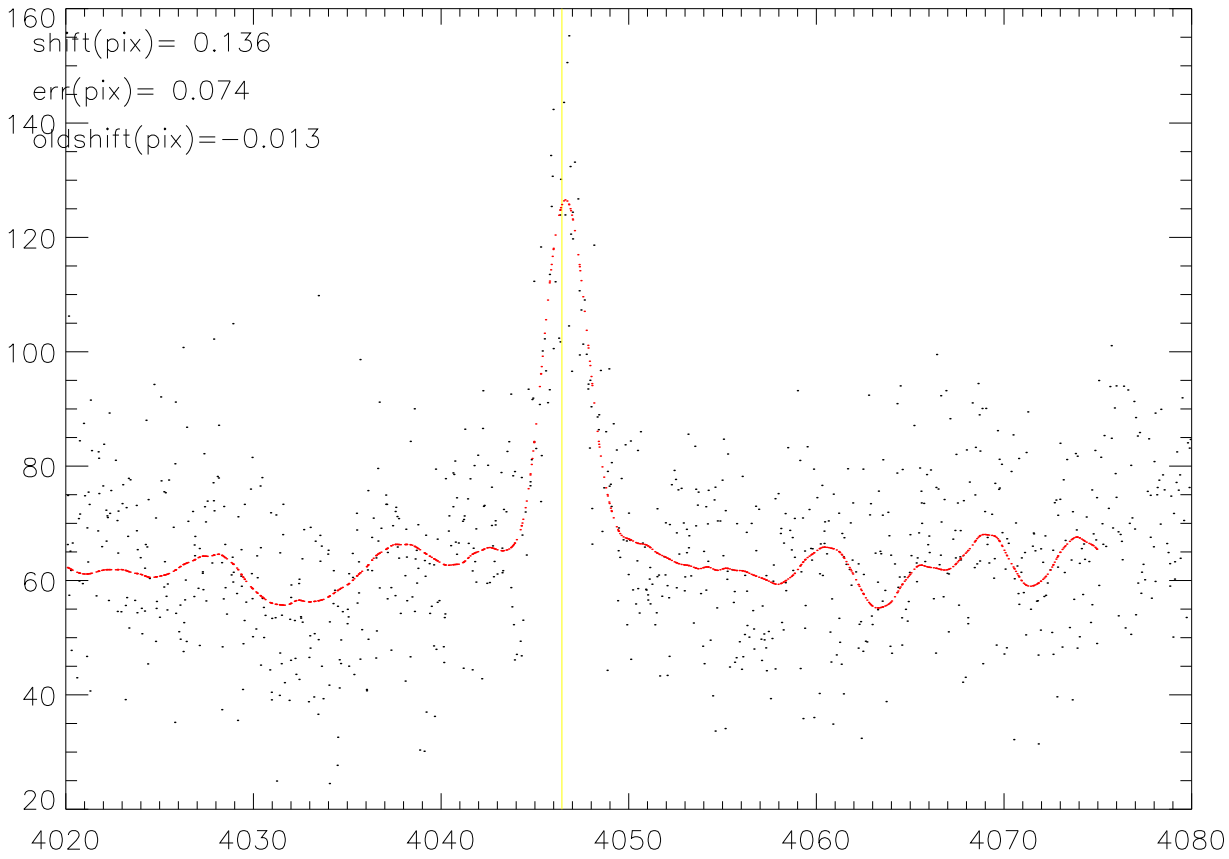

PLATE=0742 MJD=52263 Scattered Light before halo removal on sdR-b1-00012305.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.804
Max value = 8.120
Mon Feb 25 10:48:12 2008

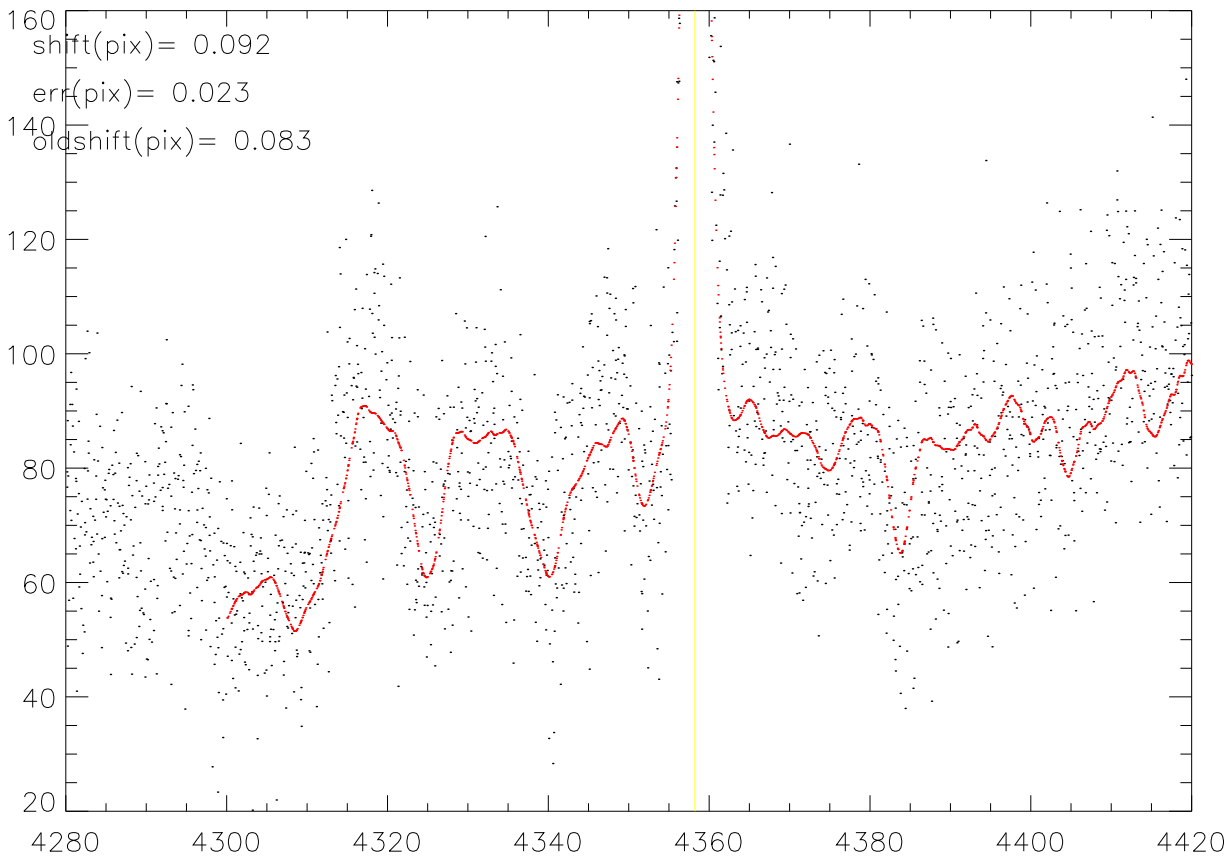

PLATE=0742 MJD=52263 Scattered Light on sdR-b1-00012305.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
4.27
3.36
5.18

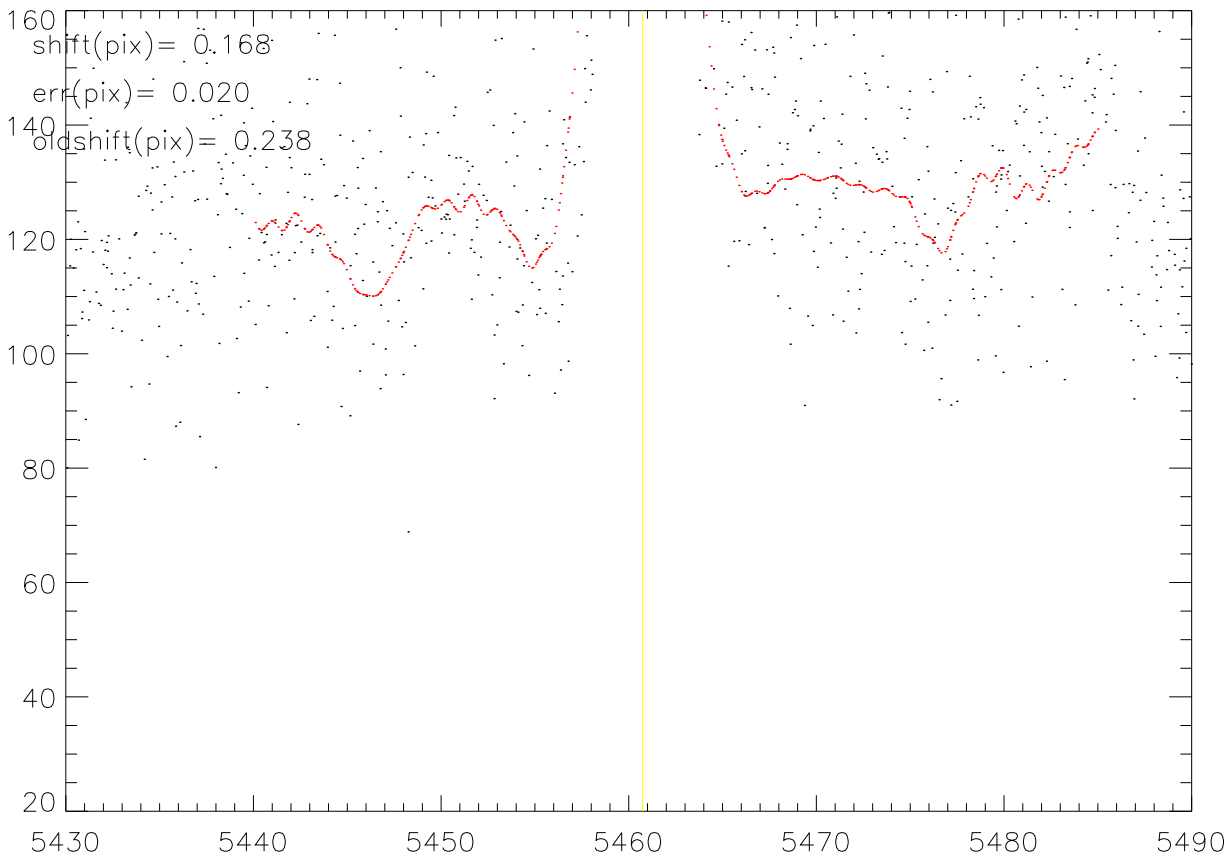

PLATE=0742 MJD=52263 Scattered Light on sdR-b1-00012305.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.262
Max value = 5.314
Mon Feb 25 10:51:18 2008

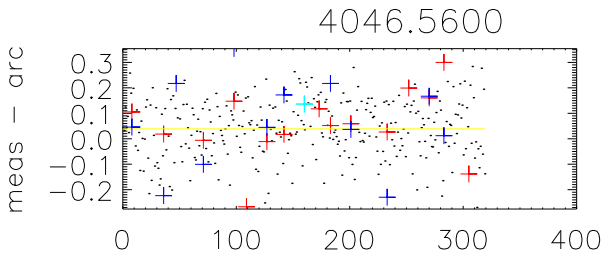

PLATE=0742 MJD=52263 Extraction chi^2 for sdR-b1-00012305.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

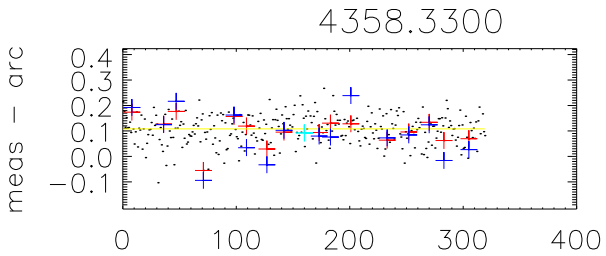

4046.5600
off: −0.01
sig: 0.063
4358.3300
off: 0.08
sig: 0.021
5460.9400
off: 0.24
sig: 0.017
5577.3390
off: 0.22
sig: 0.003
5889.9500
off: 0.30
sig: 0.010
5895.9240
off: 0.31
sig: 0.013

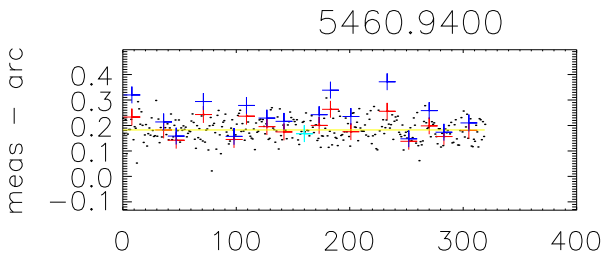

shift(pix)= 0.136
err(pix)= 0.074
oldshift(pix)=−0.013
160
140
120
100
80
60
40
20
4020
4030
4040
4050
4060
4070
4080

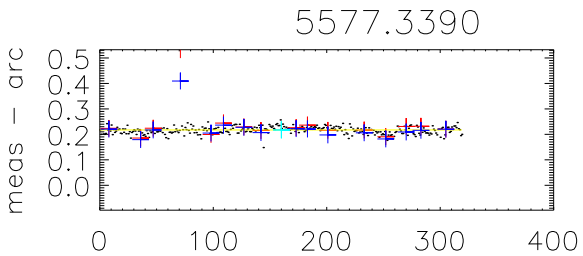

shift(pix)= 0.092
err(pix)= 0.023
oldshift(pix)= 0.083
160
140
120
100
80
60
40
20
4280
4300
4320
4340
4360
4380
4400
4420

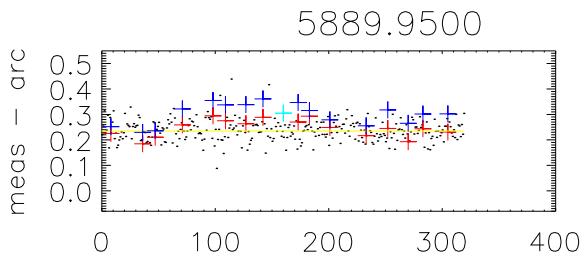

shift(pix)= 0.168
err(pix)= 0.020
oldshift(pix)= 0.238
160
140
120
100
80
60
40
20
5430
5440
5450
5460
5470
5480
5490

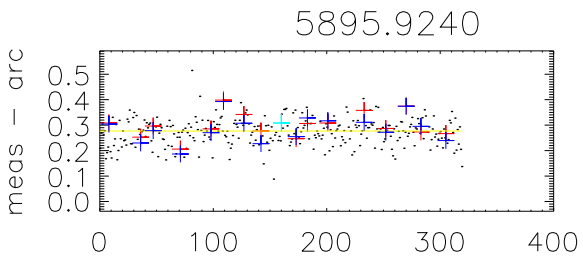

4046.5600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

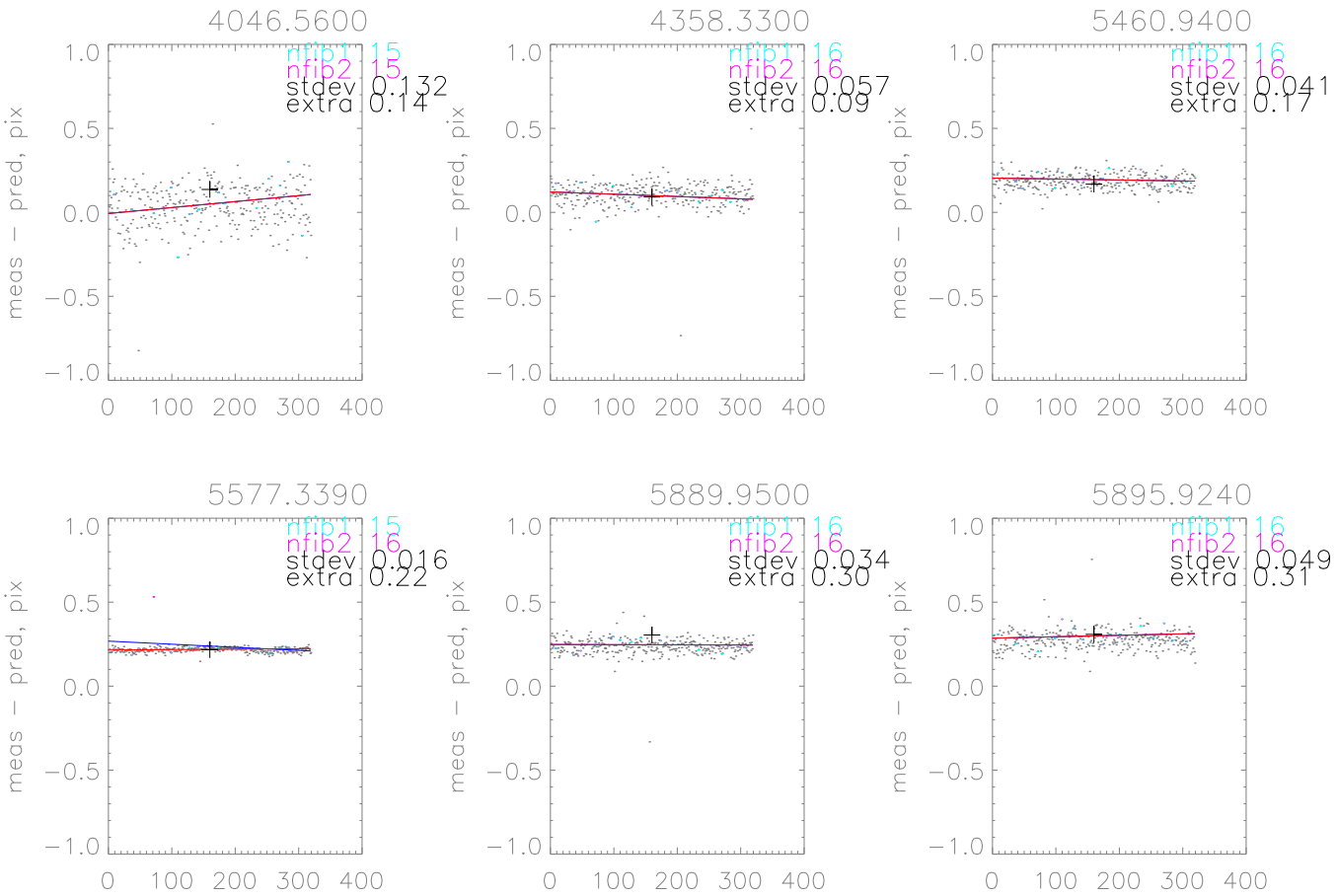

4358.3300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

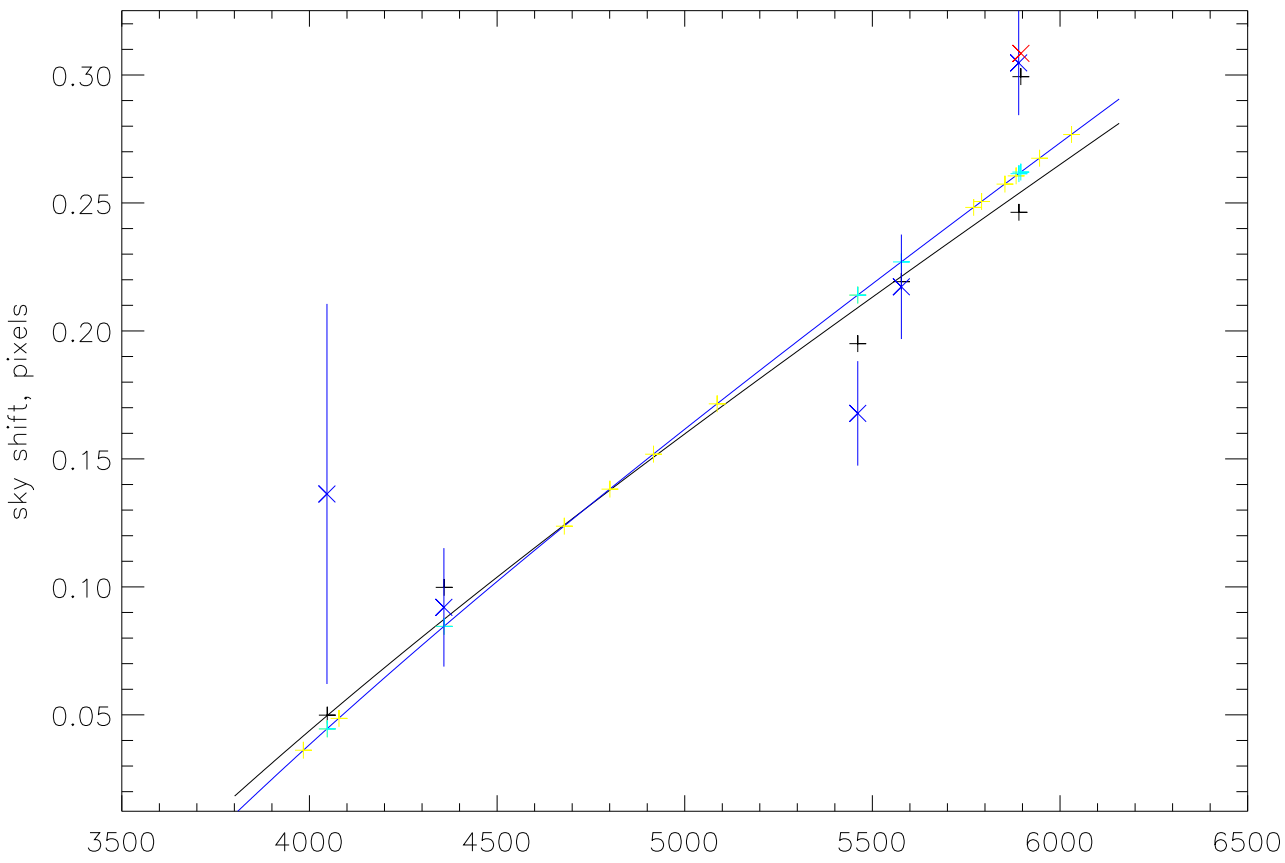

5460.9400
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

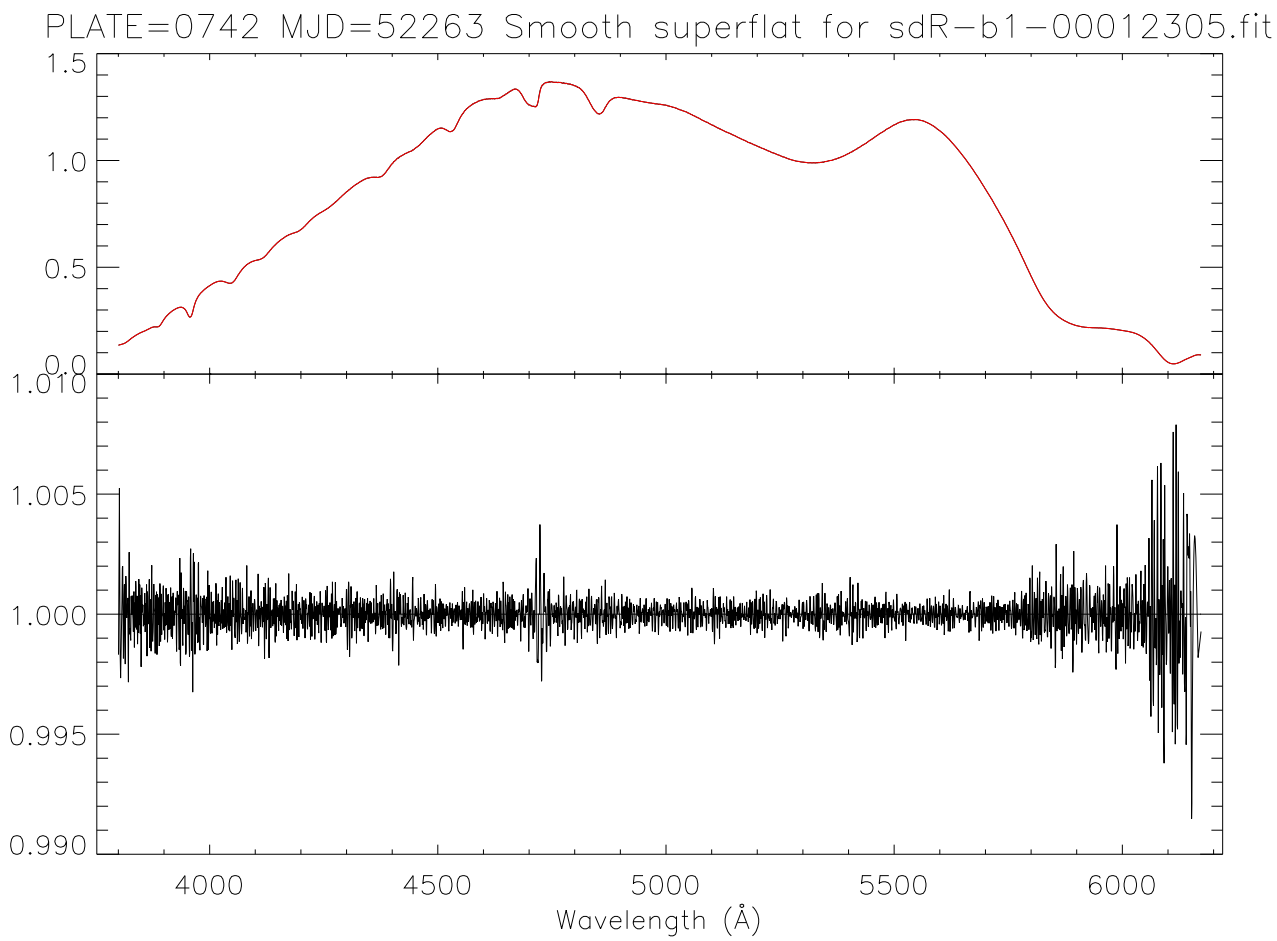

5889.9500
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

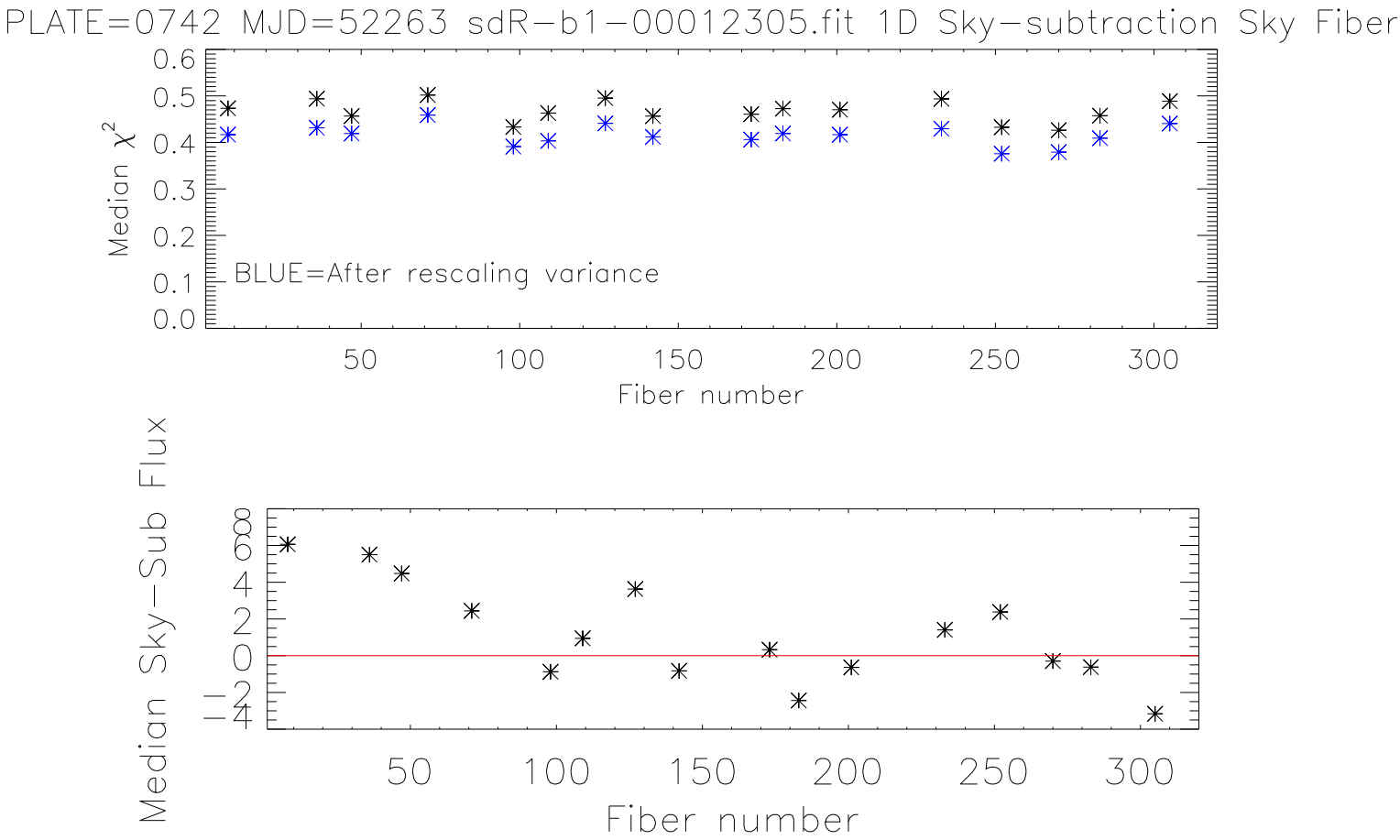

5895.9240
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

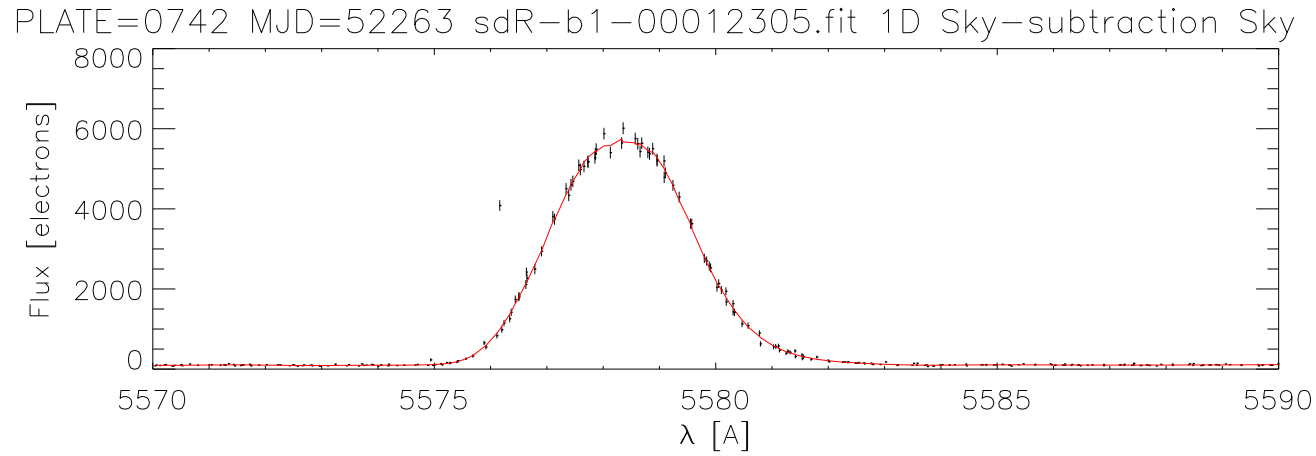

4046.5600
nfib1 15
nfib2 15
stdev 0.132
extra 0.14
4358.3300
nfib1 16
nfib2 16
stdev 0.057
extra 0.09
5460.9400
nfib1 16
nfib2 16
stdev 0.041
extra 0.17
5577.3390
nfib1 15
nfib2 16
stdev 0.016
extra 0.22
5889.9500
nfib1 16
nfib2 16
stdev 0.034
extra 0.30
5895.9240
nfib1 16
nfib2 16
stdev 0.049
extra 0.31
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

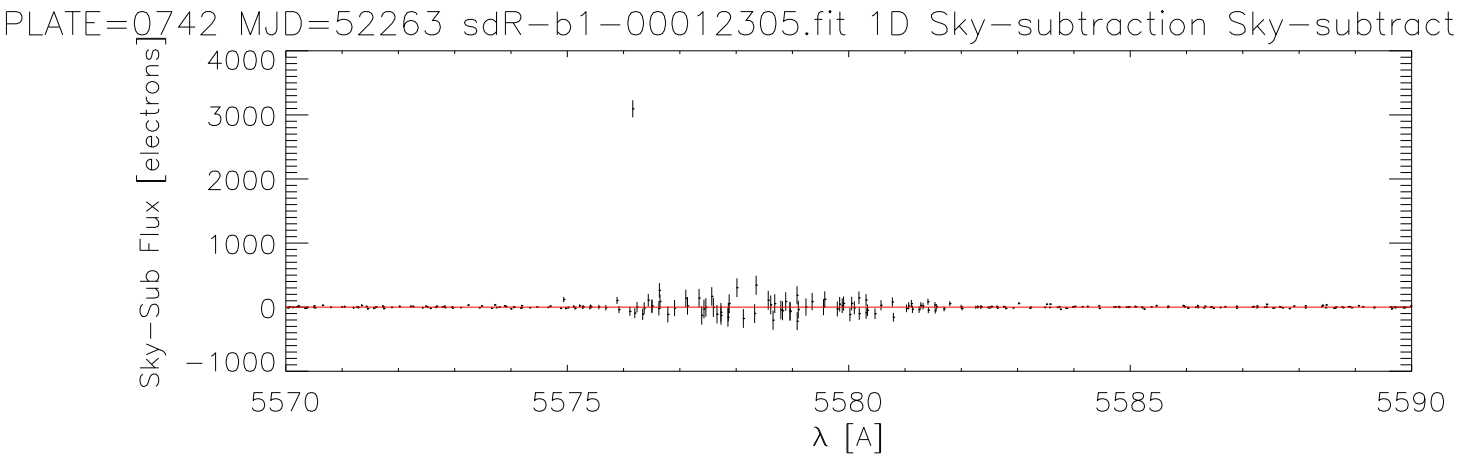

sky shift, pixels
0.30
0.25
0.20
0.15
0.10
0.05
3500
4000
4500
5000
5500
6000
6500

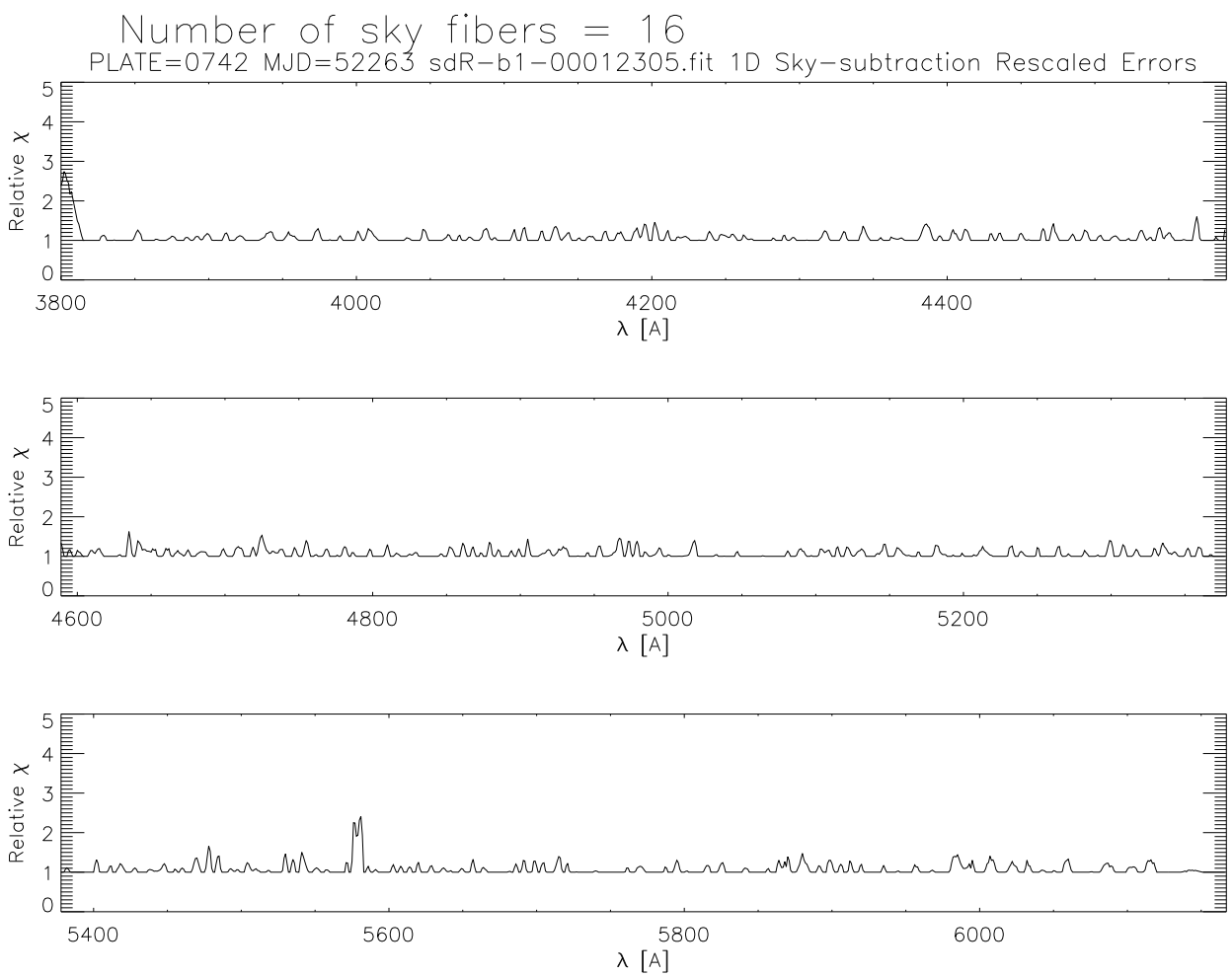
es= 0.0000

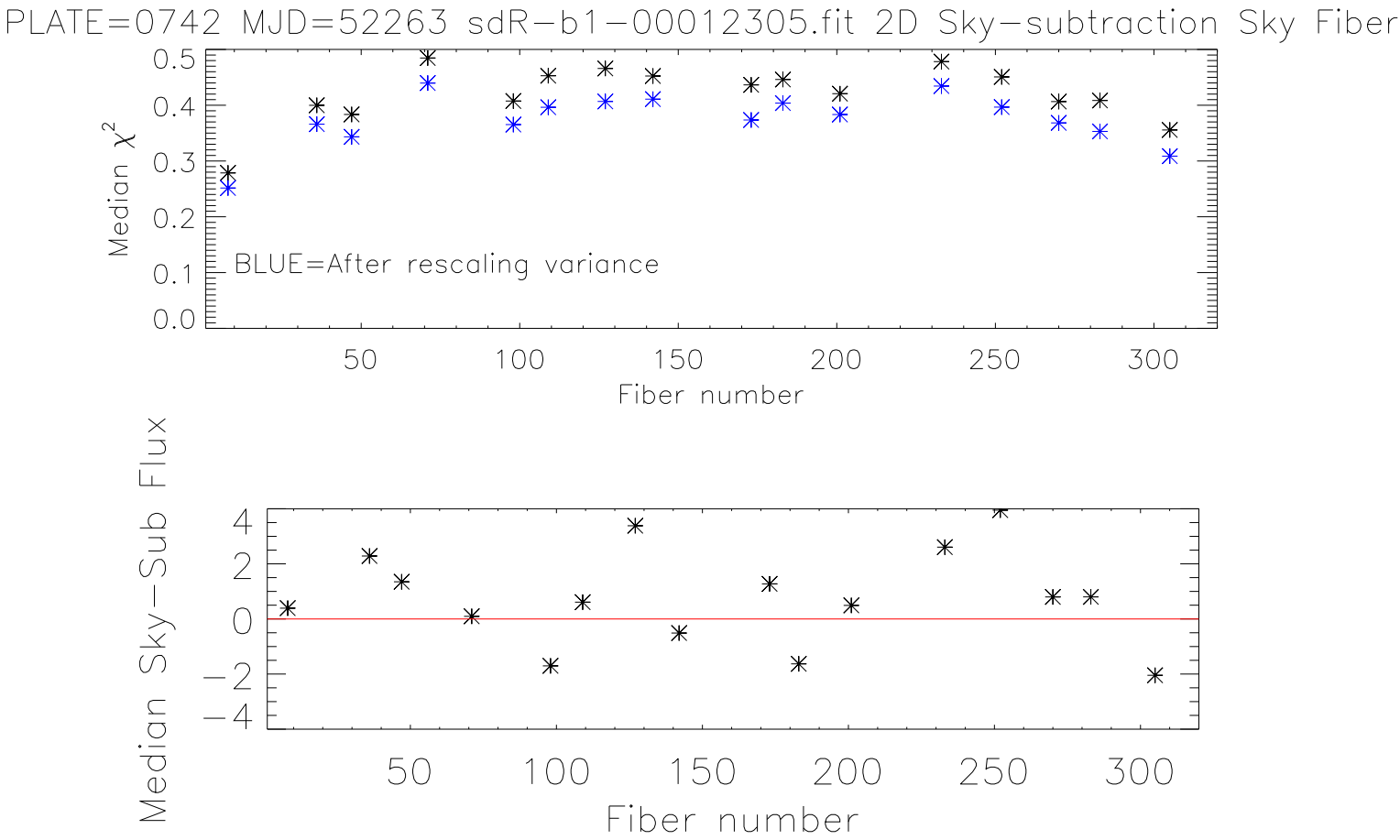

PLATE=0742 MJD=52263 Smooth superflat for sdR-b1-00012305.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

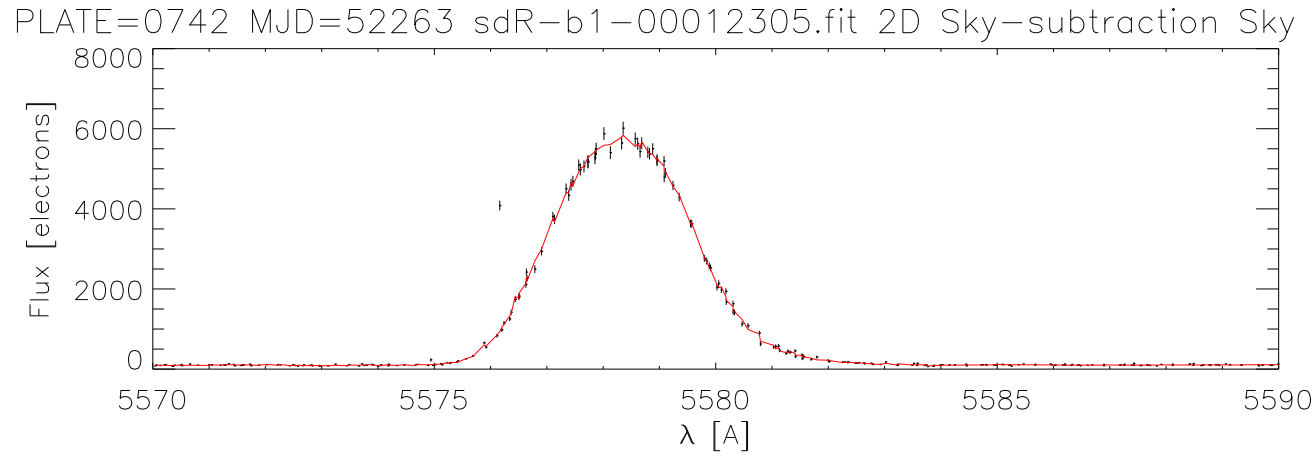

PLATE=0742 MJD=52263 sdR-b1-00012305.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

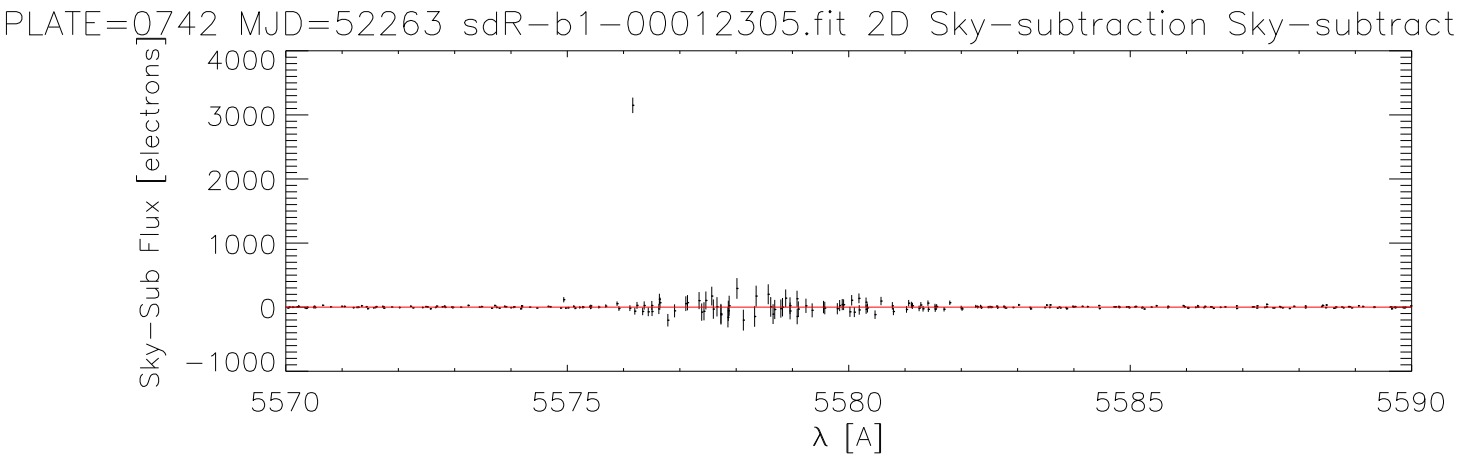

PLATE=0742 MJD=52263 sdR-b1-00012305.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

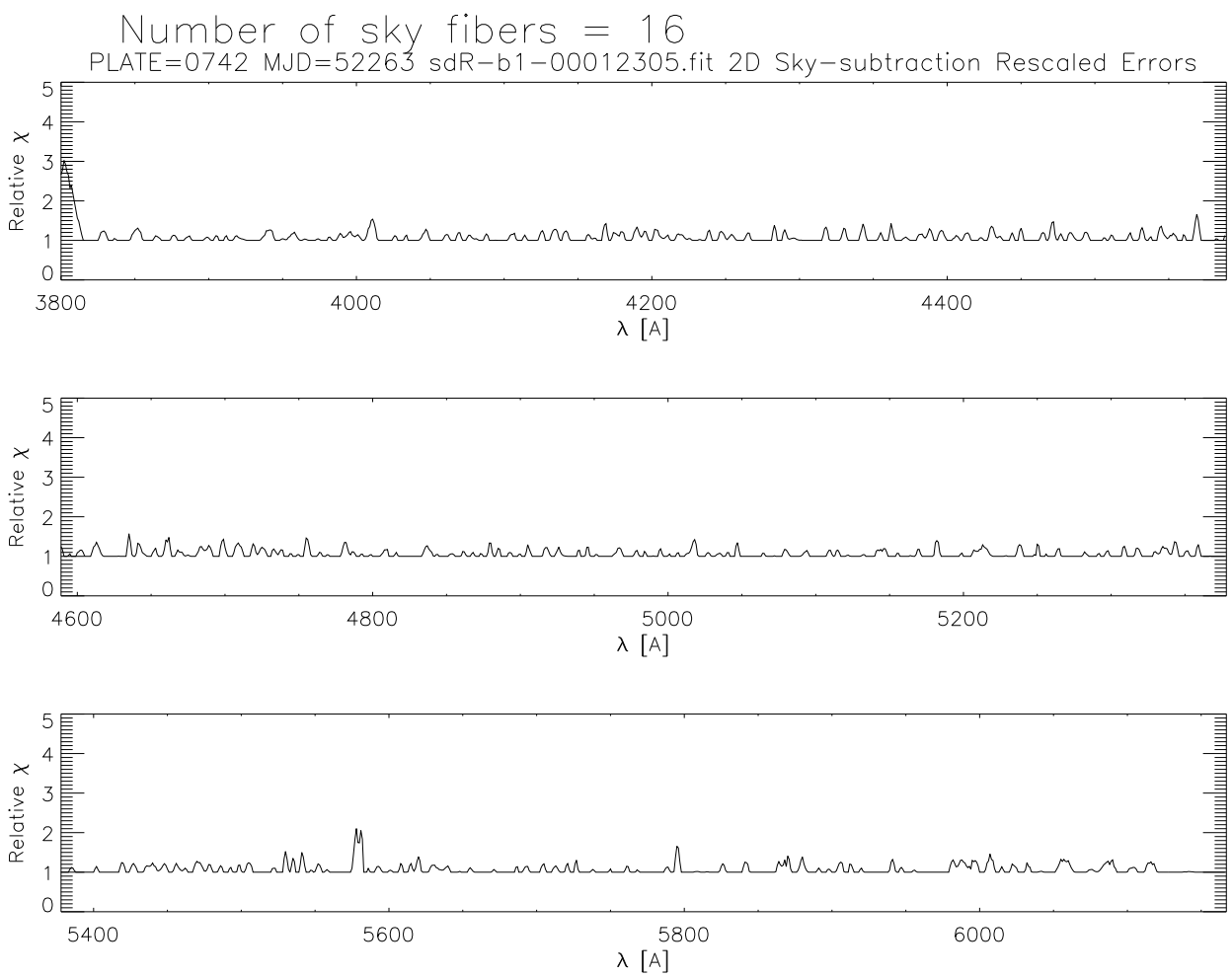

PLATE=0742 MJD=52263 sdR-b1-00012305.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
4000
3000
2000
1000
0
-1000
5570
5575
5580
5585
5590
λ [A]

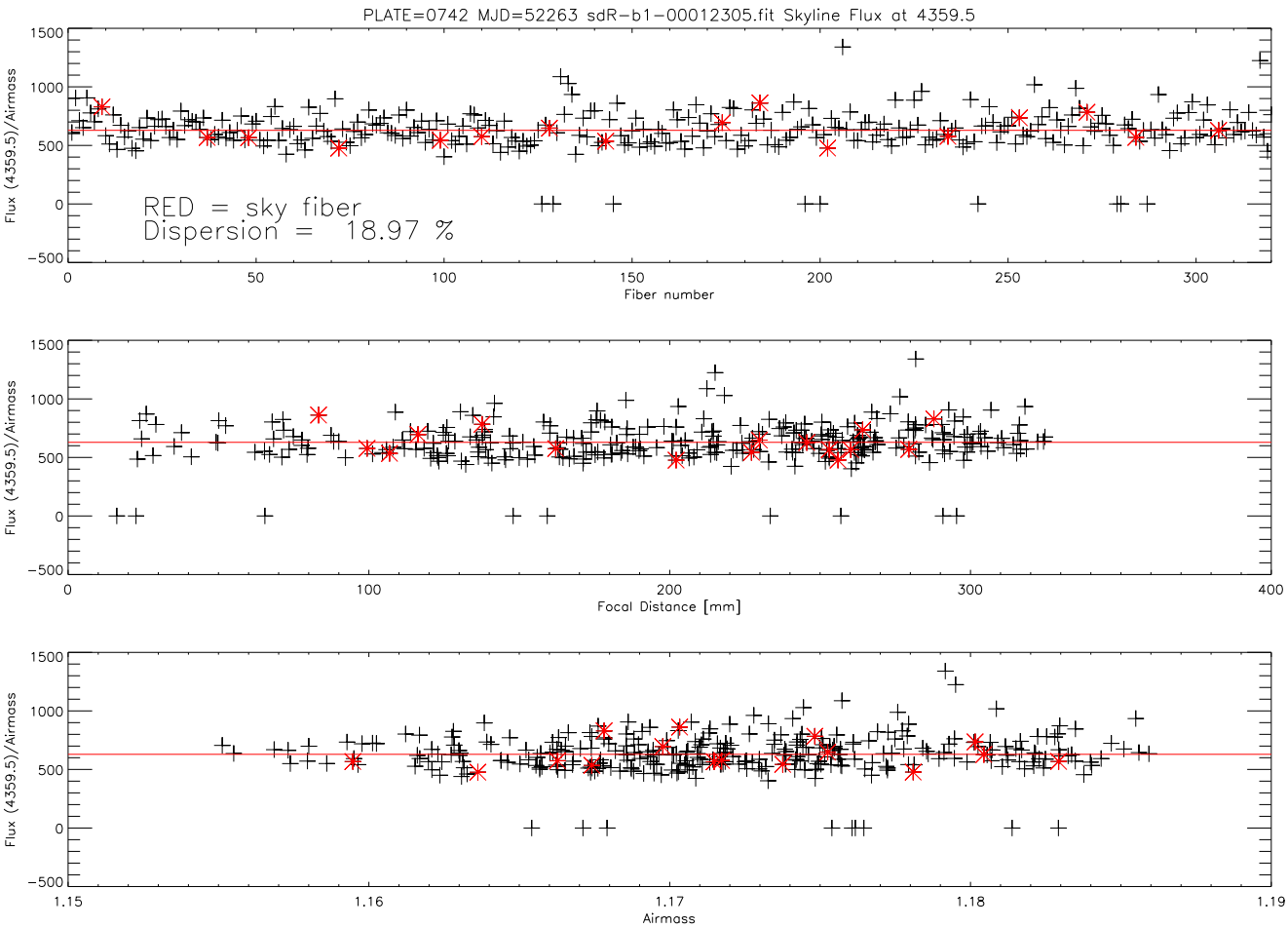

Number of sky fibers = 16
PLATE=0742 MJD=52263 sdR-b1-00012305.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

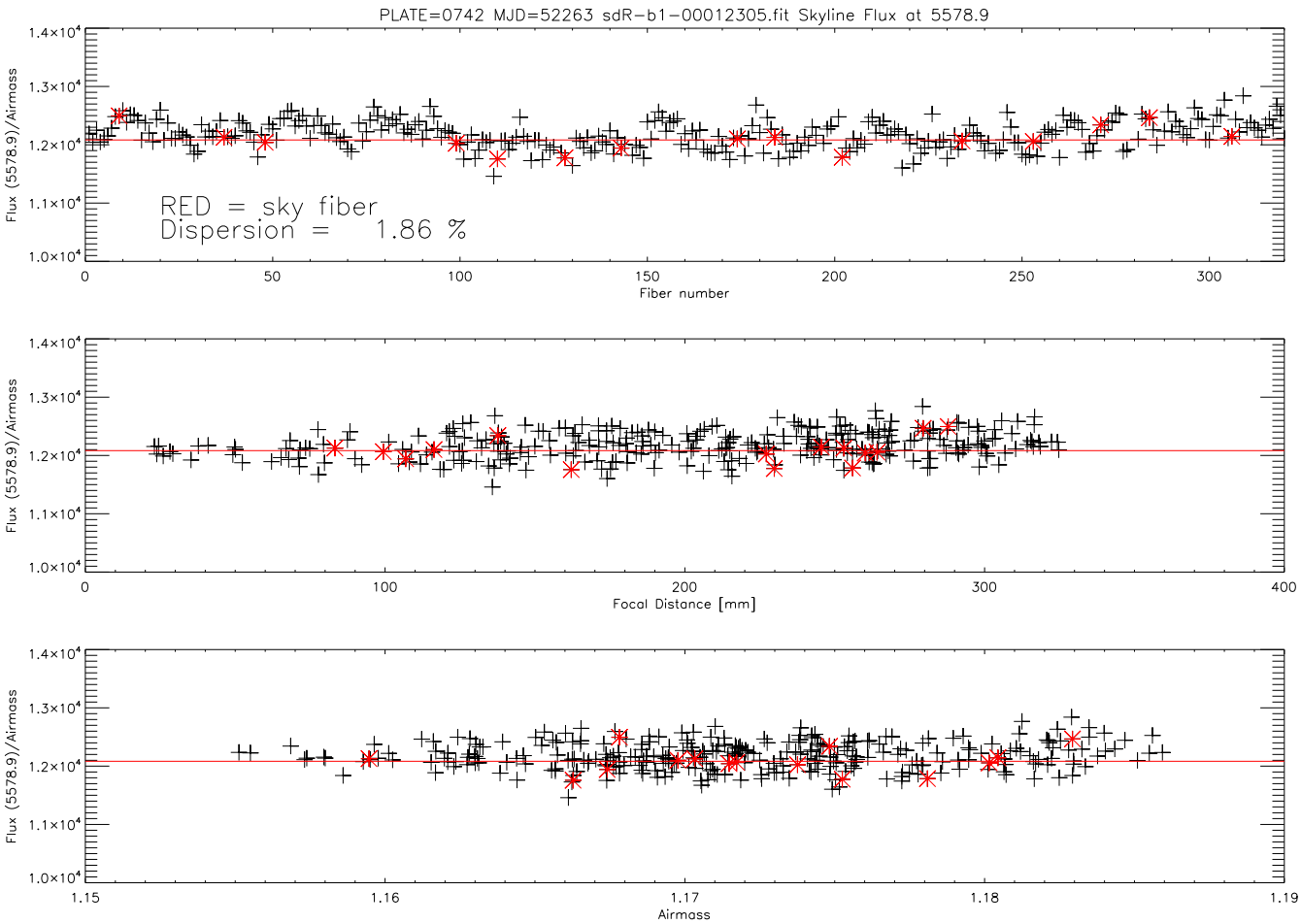

PLATE=0742 MJD=52263 sdR-b1-00012305.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

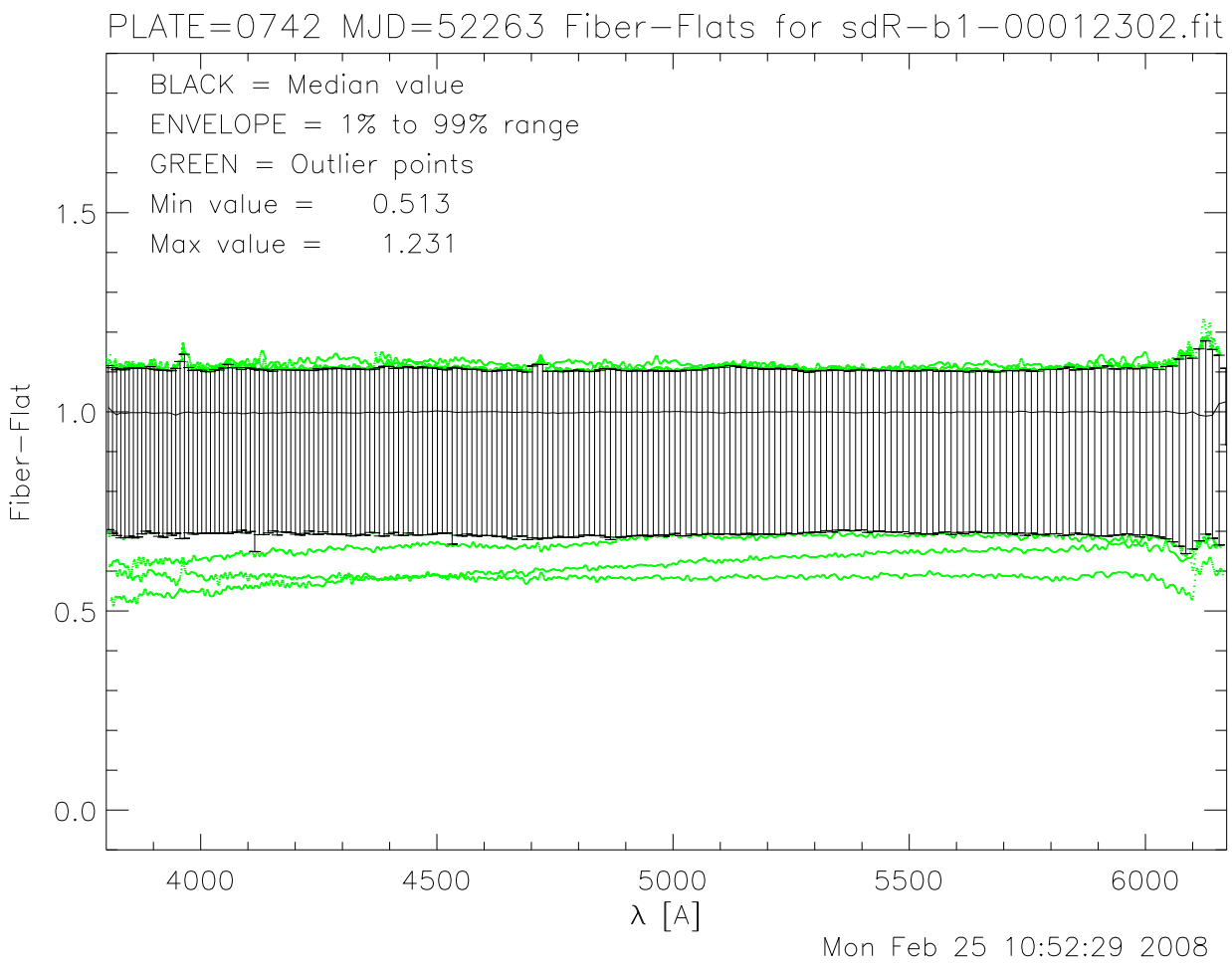

PLATE=0742 MJD=52263 sdR-b1-00012305.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

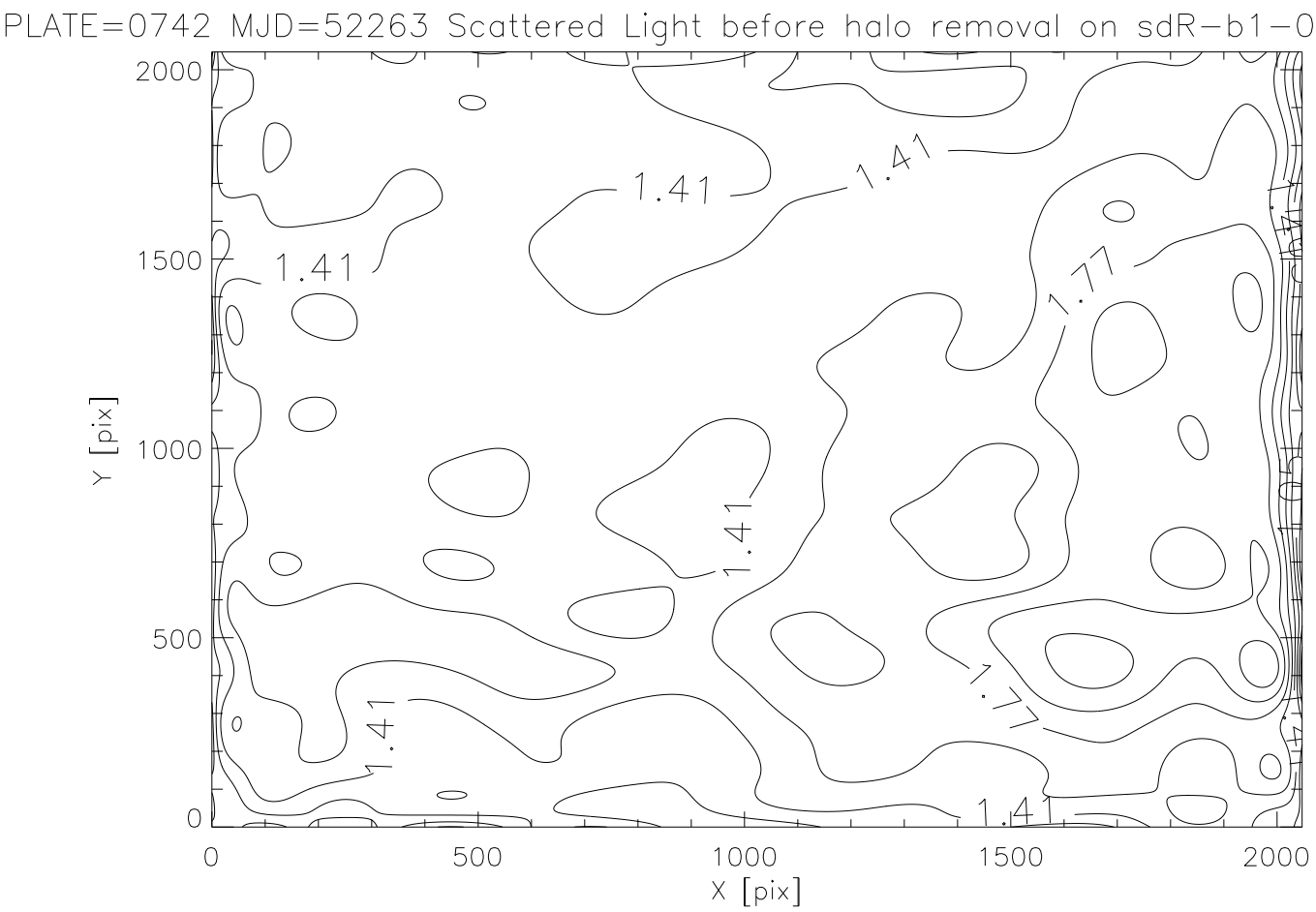

PLATE=0742 MJD=52263 sdR-b1-00012305.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
4000
3000
2000
1000
0
-1000
5570
5575
5580
5585
5590
λ [A]

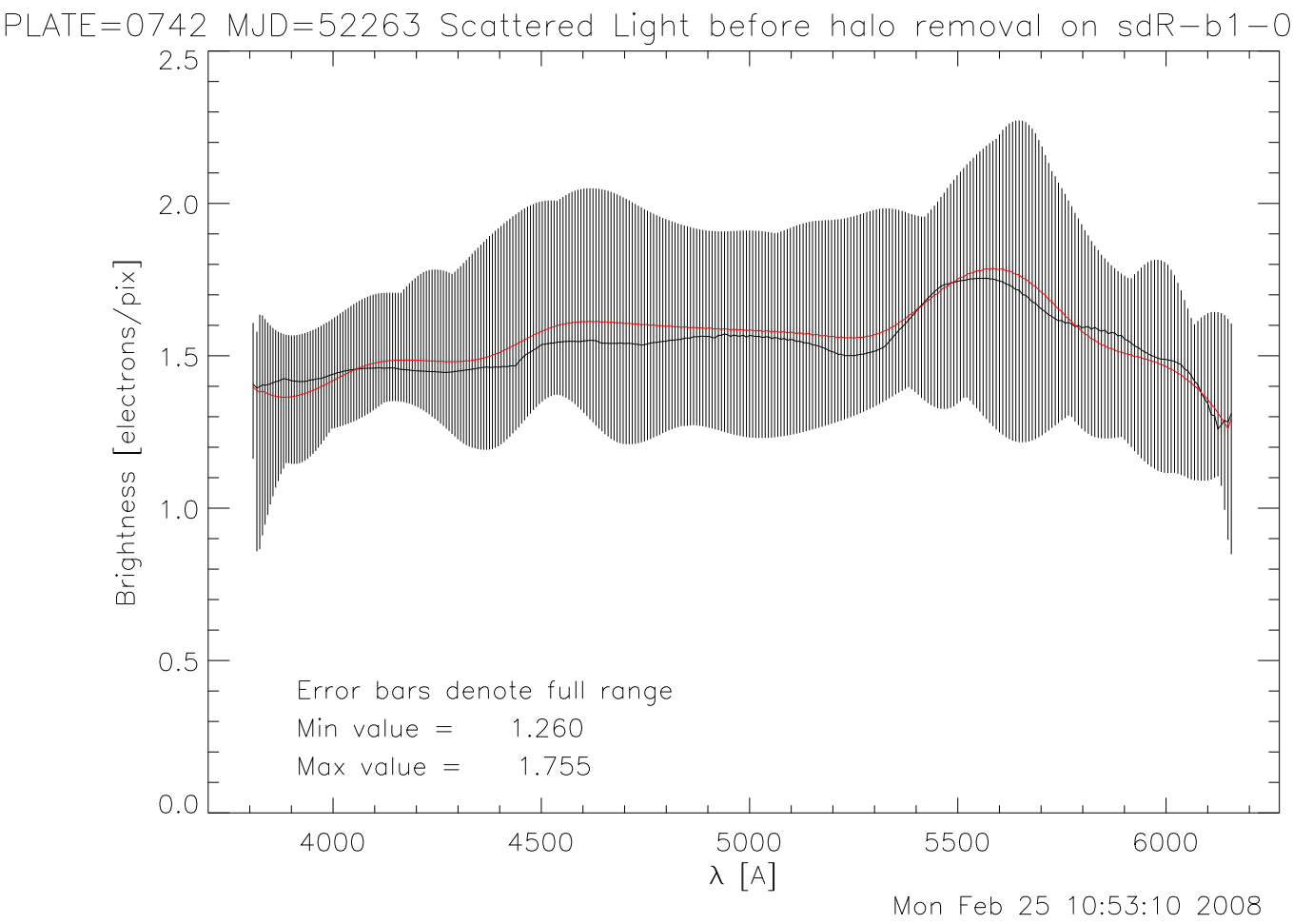

Number of sky fibers = 16
PLATE=0742 MJD=52263 sdR-b1-00012305.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

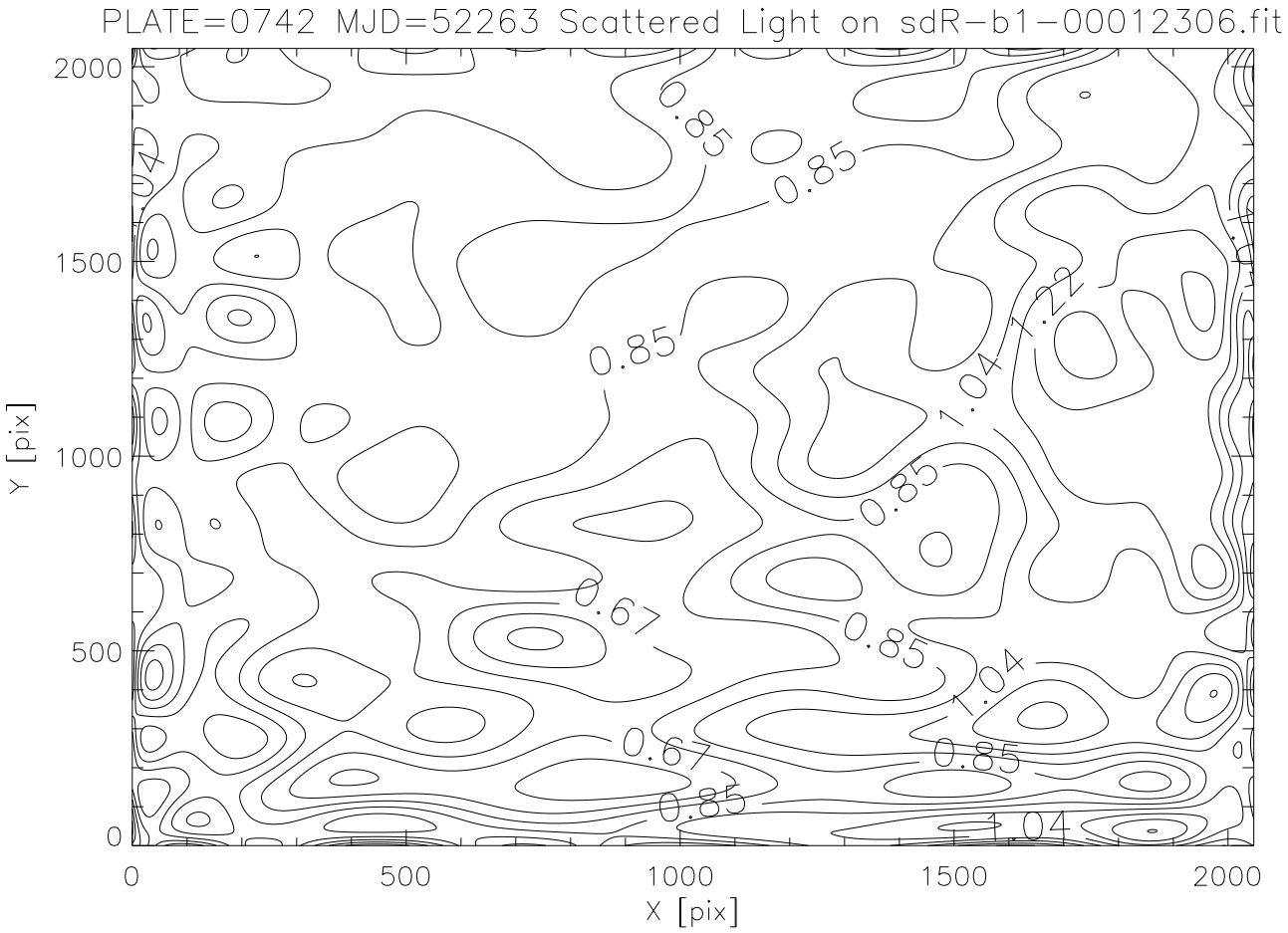

PLATE=0742 MJD=52263 sdR-b1-00012305.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 18.97 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

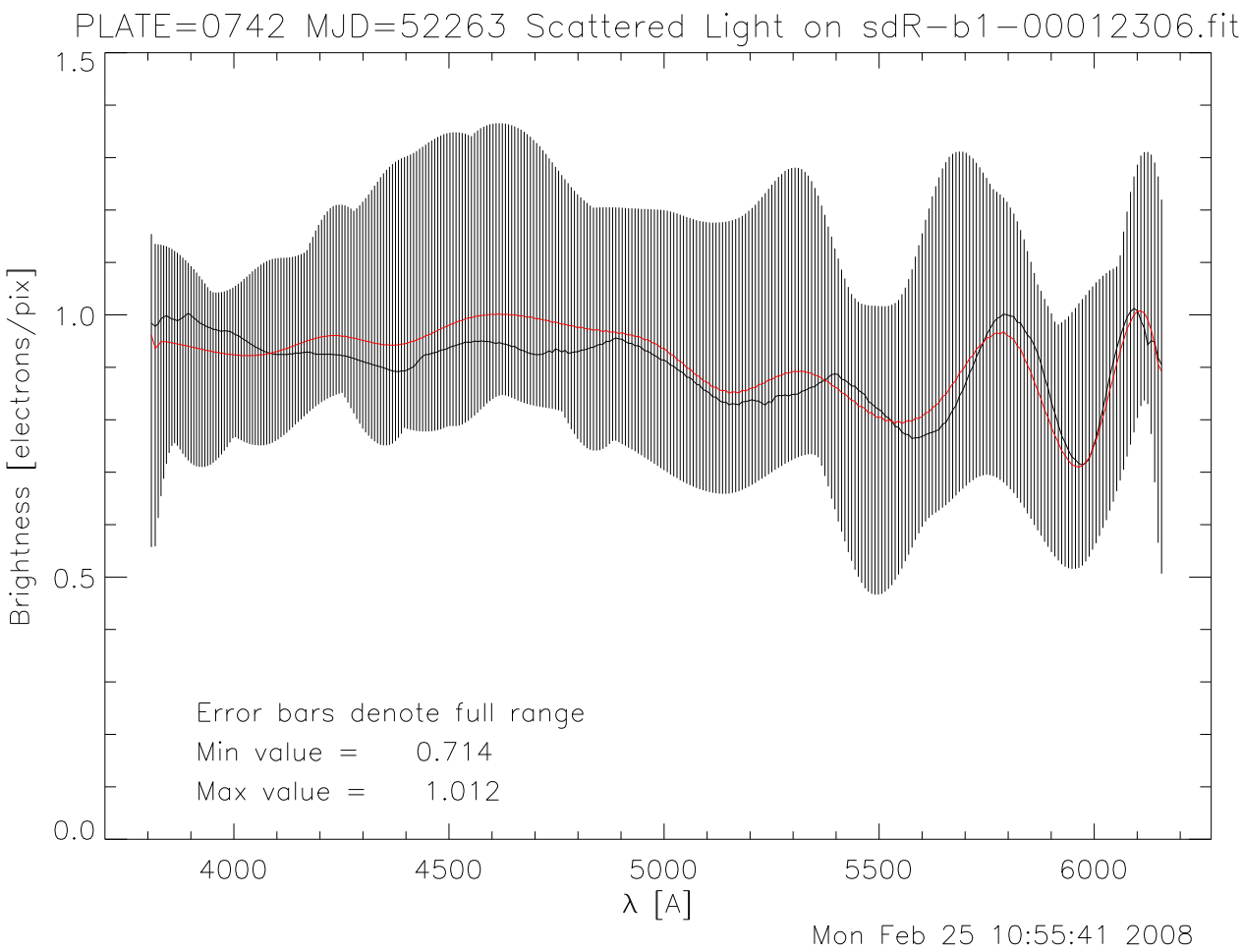

PLATE=0742 MJD=52263 sdR-b1-00012305.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
1.4×10^4
1.3×10^4
1.2×10^4
1.1×10^4
1.0×10^4
RED = sky fiber
Dispersion = 1.86 %
0
50
100
150
200
250
300
Fiber number
Flux (5578.9)/Airmass
1.4×10^4
1.3×10^4
1.2×10^4
1.1×10^4
1.0×10^4
0
100
200
300
400
Focal Distance [mm]
Flux (5578.9)/Airmass
1.4×10^4
1.3×10^4
1.2×10^4
1.1×10^4
1.0×10^4
1.15
1.16
1.17
1.18
1.19
Airmass

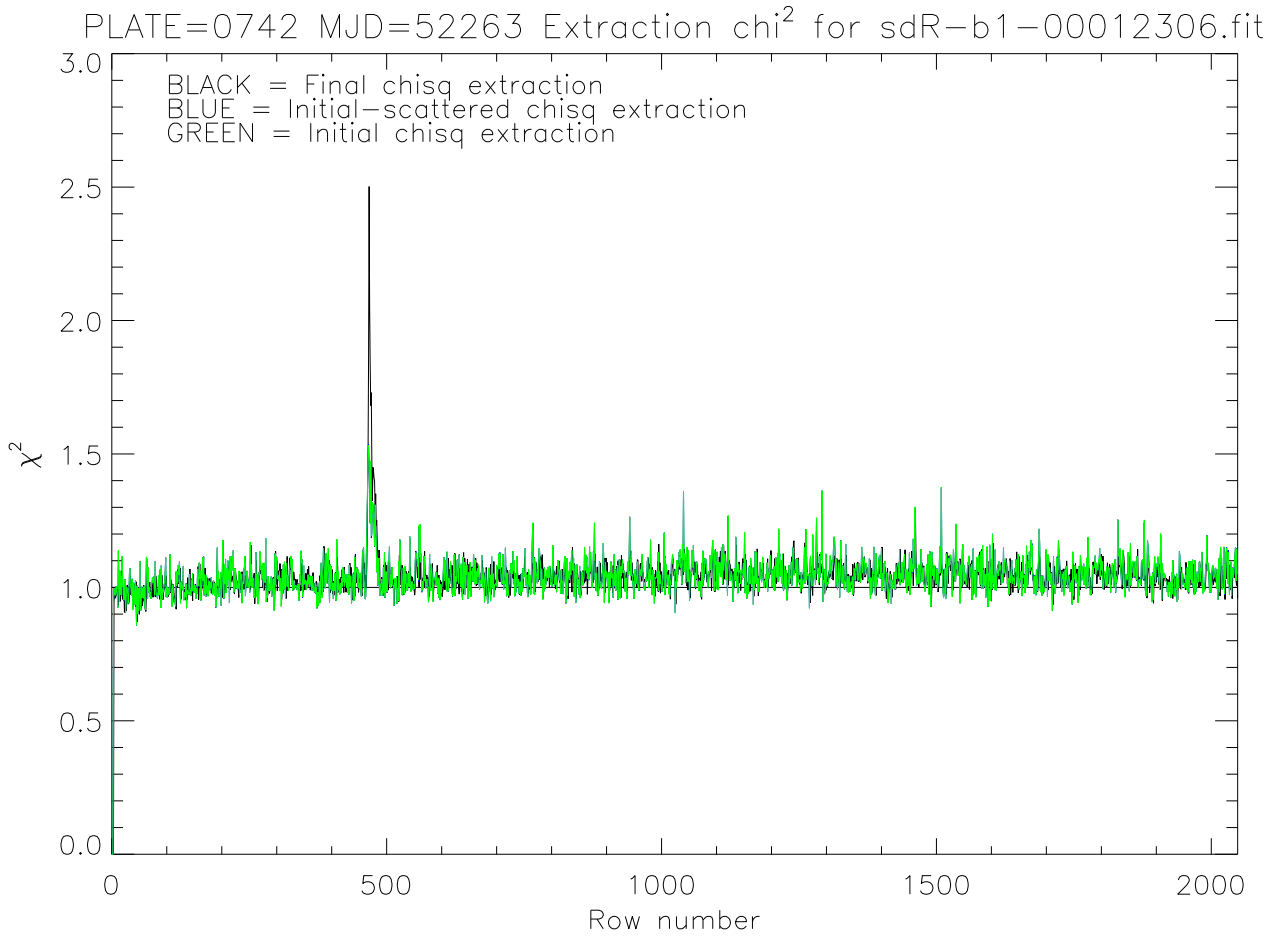

PLATE=0742 MJD=52263 Fiber-Flats for sdR-b1-00012302.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.513
Max value = 1.231
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 10:52:29 2008

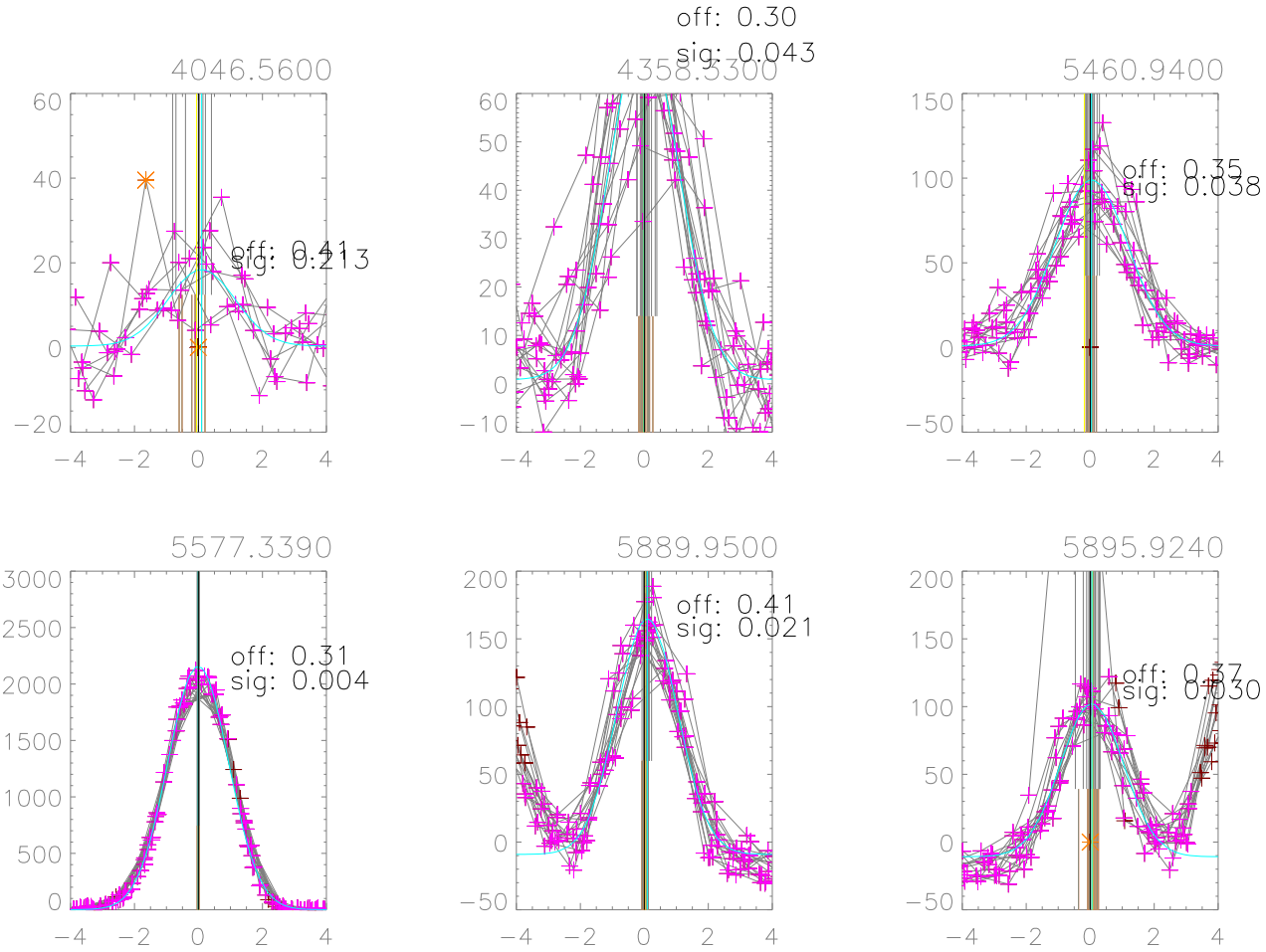

PLATE=0742 MJD=52263 Scattered Light before halo removal on sdR−b1−00012306.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
1.41
1.41
1.41
1.77
1.41
1.77
1.41
0

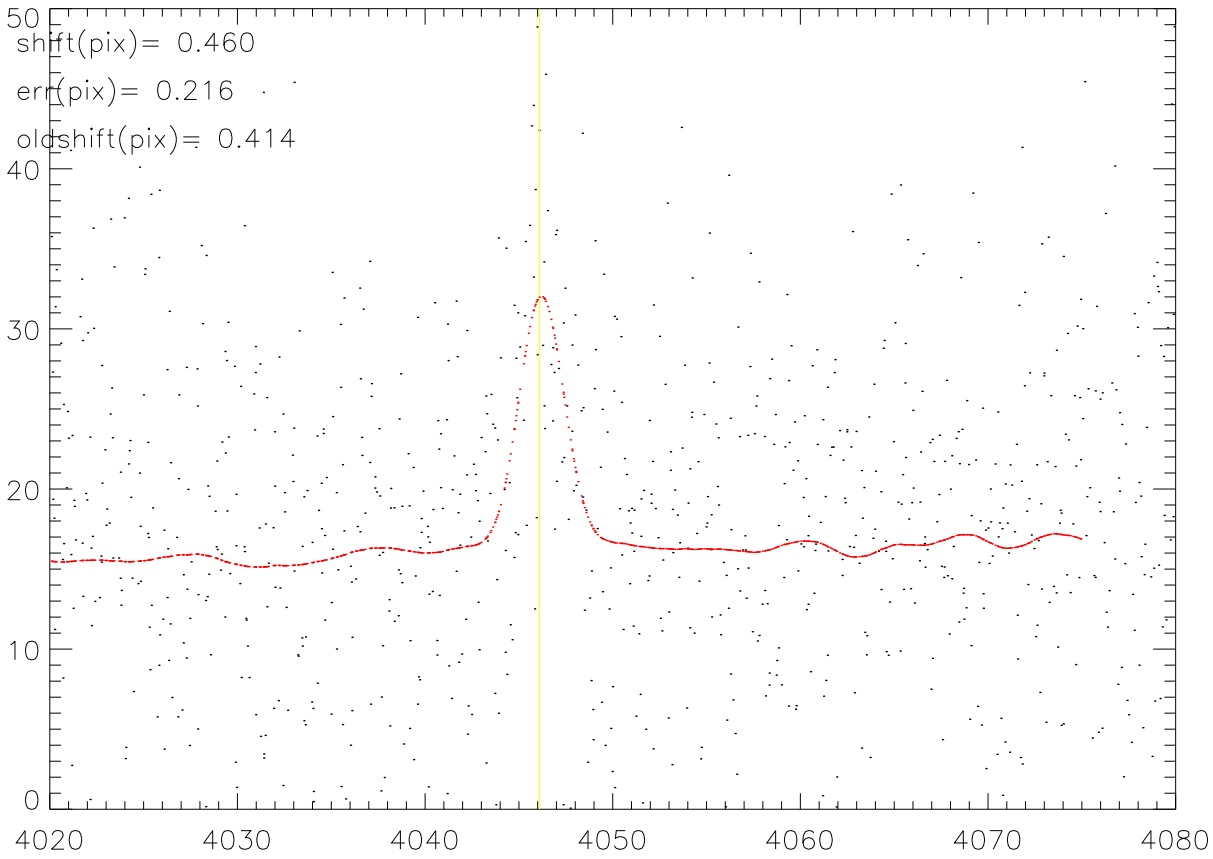

PLATE=0742 MJD=52263 Scattered Light before halo removal on sdR-b1-00012306.f
Brightness [electrons/pix]
2.5
2.0
1.5
1.0
0.5
0.0
Error bars denote full range
Min value = 1.260
Max value = 1.755
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 10:53:10 2008

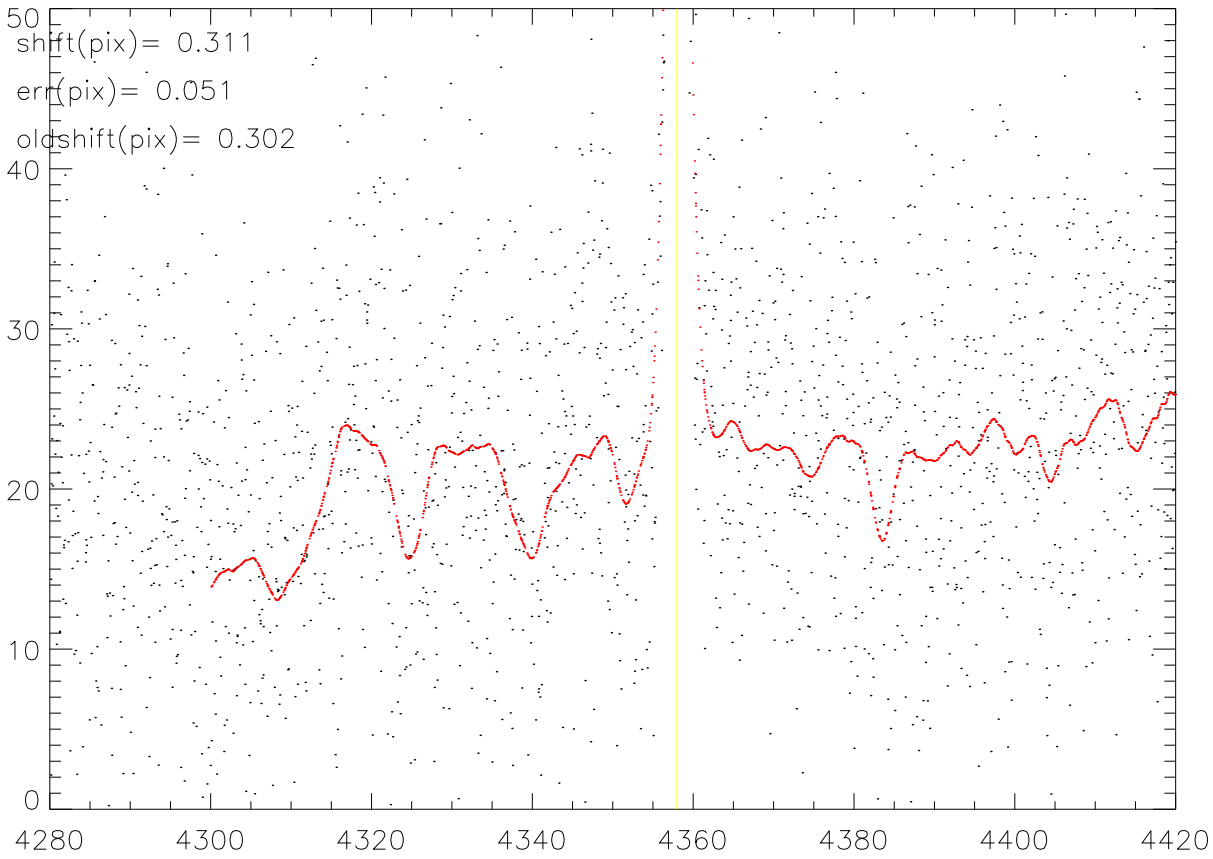

PLATE=0742 MJD=52263 Scattered Light on sdR-b1-00012306.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
0.85
0.67
1.04
1.22

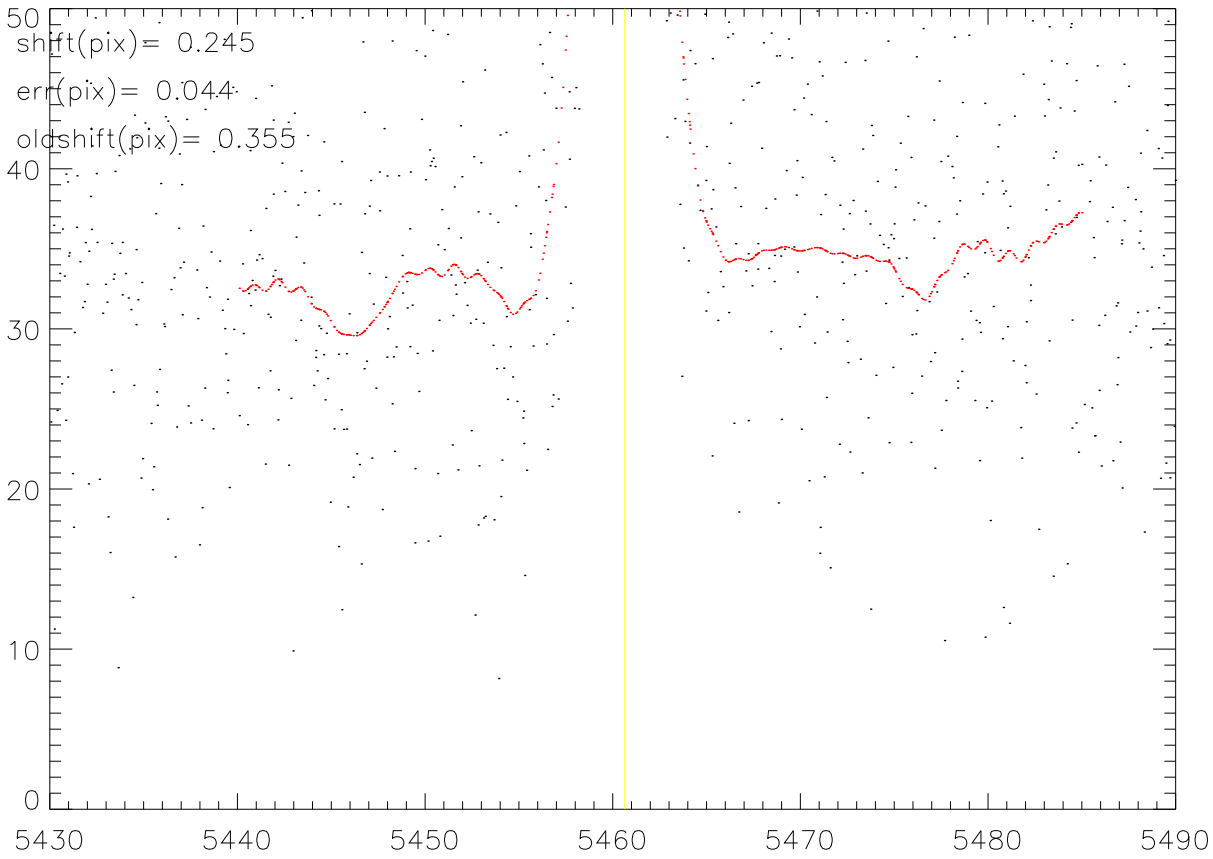

PLATE=0742 MJD=52263 Scattered Light on sdR-b1-00012306.fit
Brightness [electrons/pix]
1.5
1.0
0.5
0.0
Error bars denote full range
Min value = 0.714
Max value = 1.012
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 10:55:41 2008

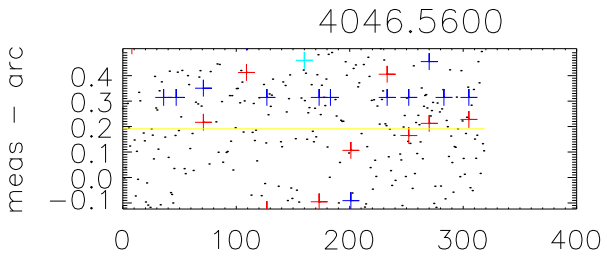

PLATE=0742 MJD=52263 Extraction chi^2 for sdR−b1−00012306.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

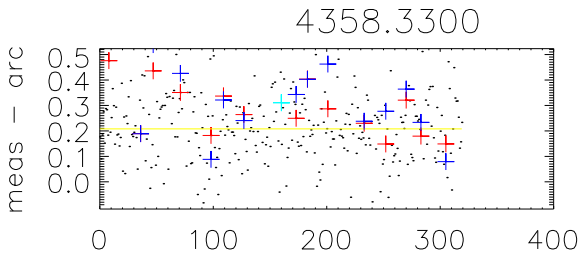

4046.5600
off: 0.41
sig: 0.213
4358.3300
off: 0.30
sig: 0.043
5460.9400
off: 0.35
sig: 0.038
5577.3390
off: 0.31
sig: 0.004
5889.9500
off: 0.41
sig: 0.021
5895.9240
off: 0.37
sig: 0.030

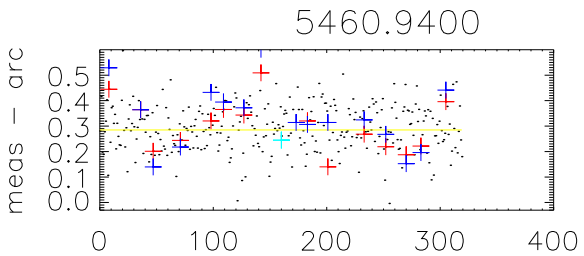

shift(pix)= 0.460
err(pix)= 0.216
oldshift(pix)= 0.414
50
40
30
20
10
0
4020
4030
4040
4050
4060
4070
4080

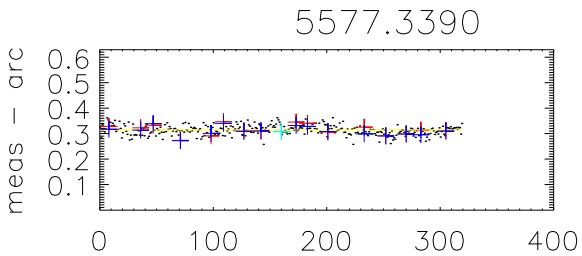

shift(pix)= 0.311
err(pix)= 0.051
oldshift(pix)= 0.302
50
40
30
20
10
0
4280
4300
4320
4340
4360
4380
4400
4420

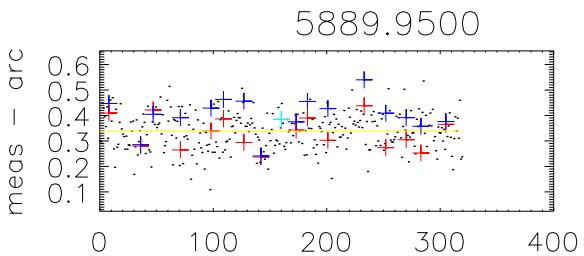

shift(pix)= 0.245
err(pix)= 0.044
oldshift(pix)= 0.355
50
40
30
20
10
0
5430
5440
5450
5460
5470
5480
5490

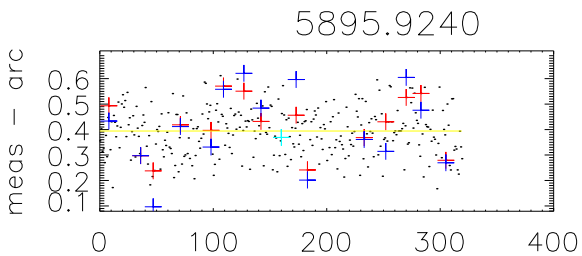

4046.5600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

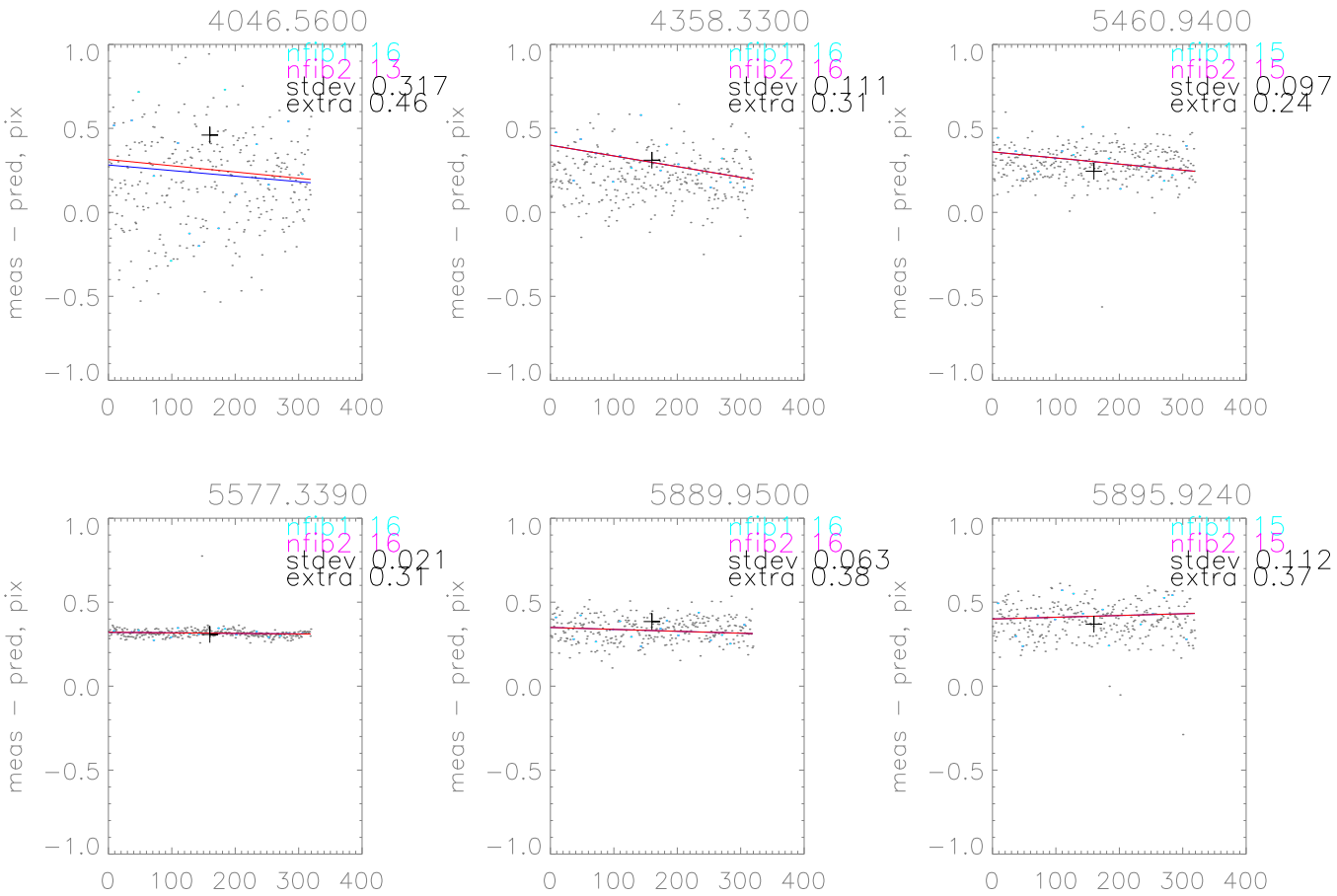

4358.3300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

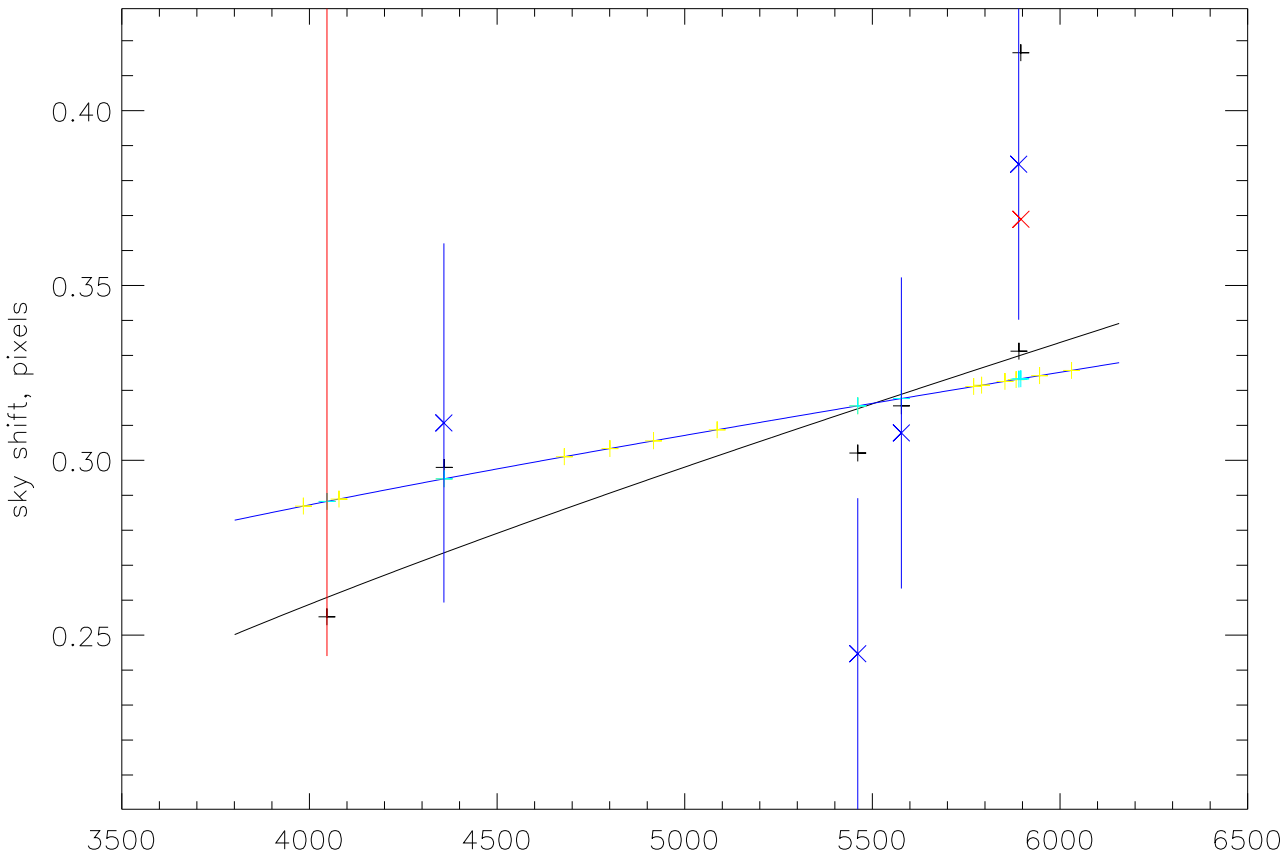

5460.9400
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400


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

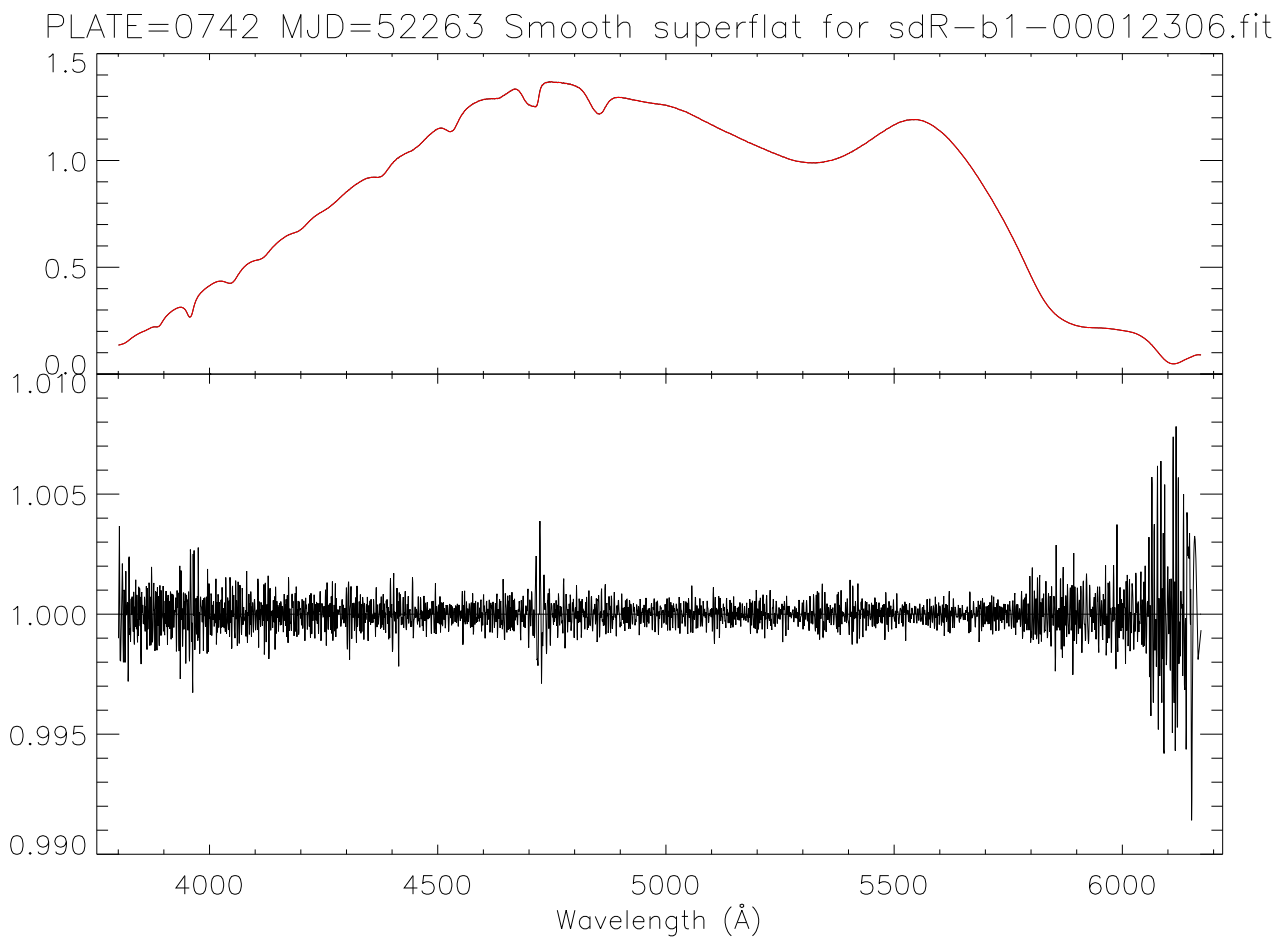

5889.9500
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

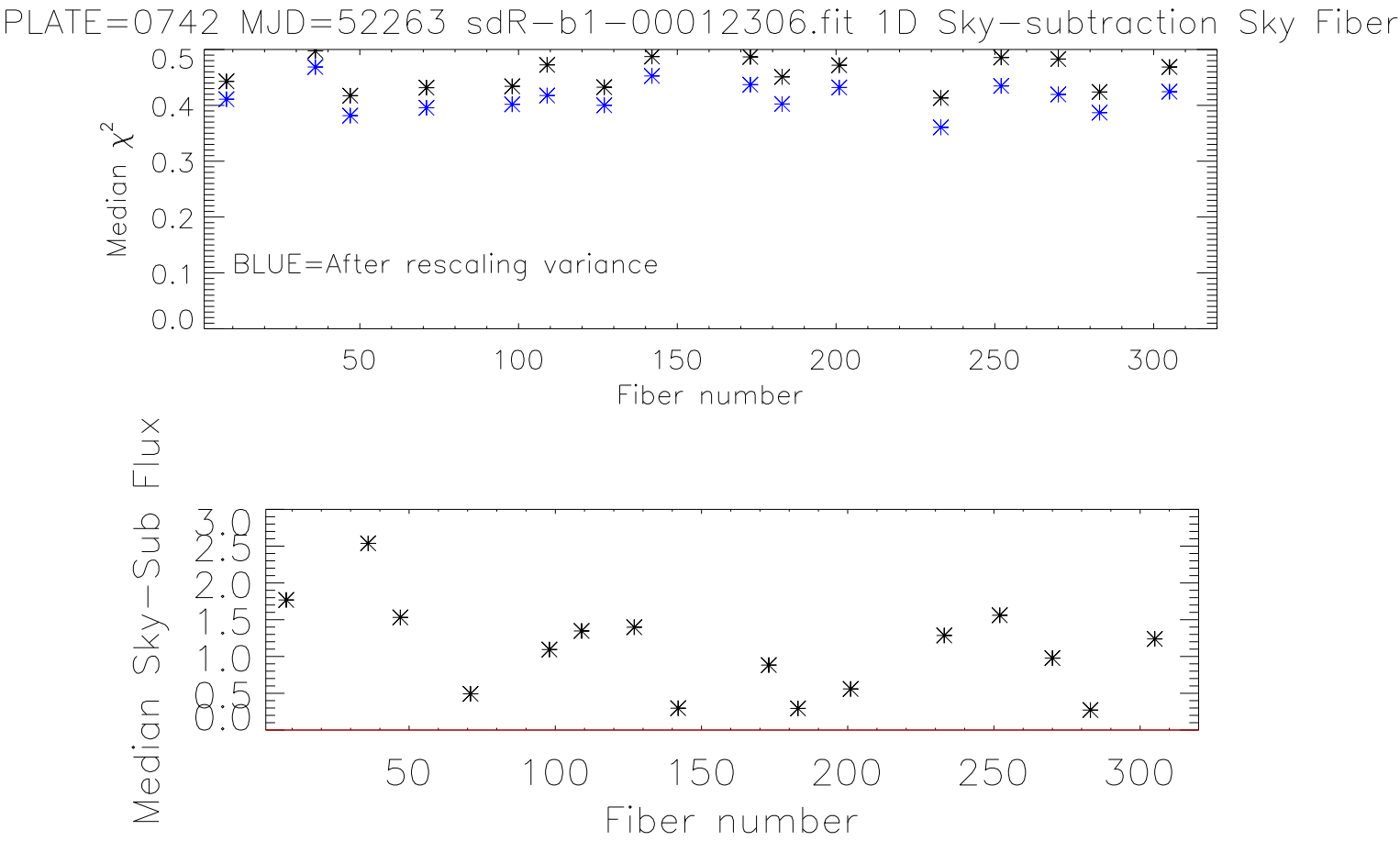

5895.9240
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

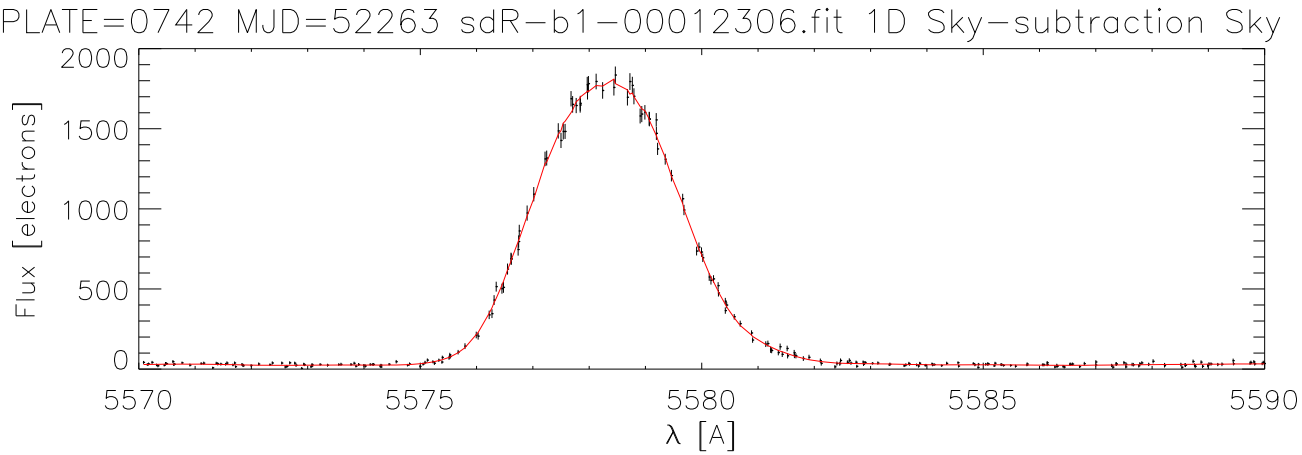

4046.5600
nfib1 16
nfib2 13
stdev 0.317
extra 0.46
4358.3300
nfib1 16
nfib2 16
stdev 0.111
extra 0.31
5460.9400
nfib1 15
nfib2 15
stdev 0.097
extra 0.24
5577.3390
nfib1 16
nfib2 16
stdev 0.021
extra 0.31
5889.9500
nfib1 16
nfib2 16
stdev 0.063
extra 0.38
5895.9240
nfib1 15
nfib2 15
stdev 0.112
extra 0.37
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

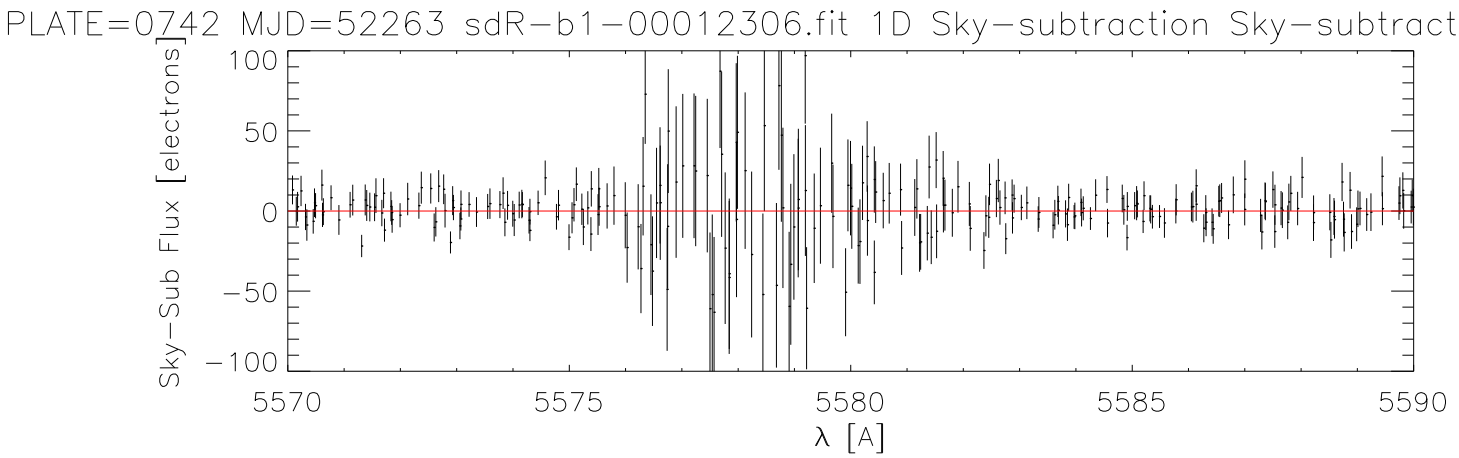

sky shift, pixels
0.40
0.35
0.30
0.25
3500
4000
4500
5000
5500
6000
6500

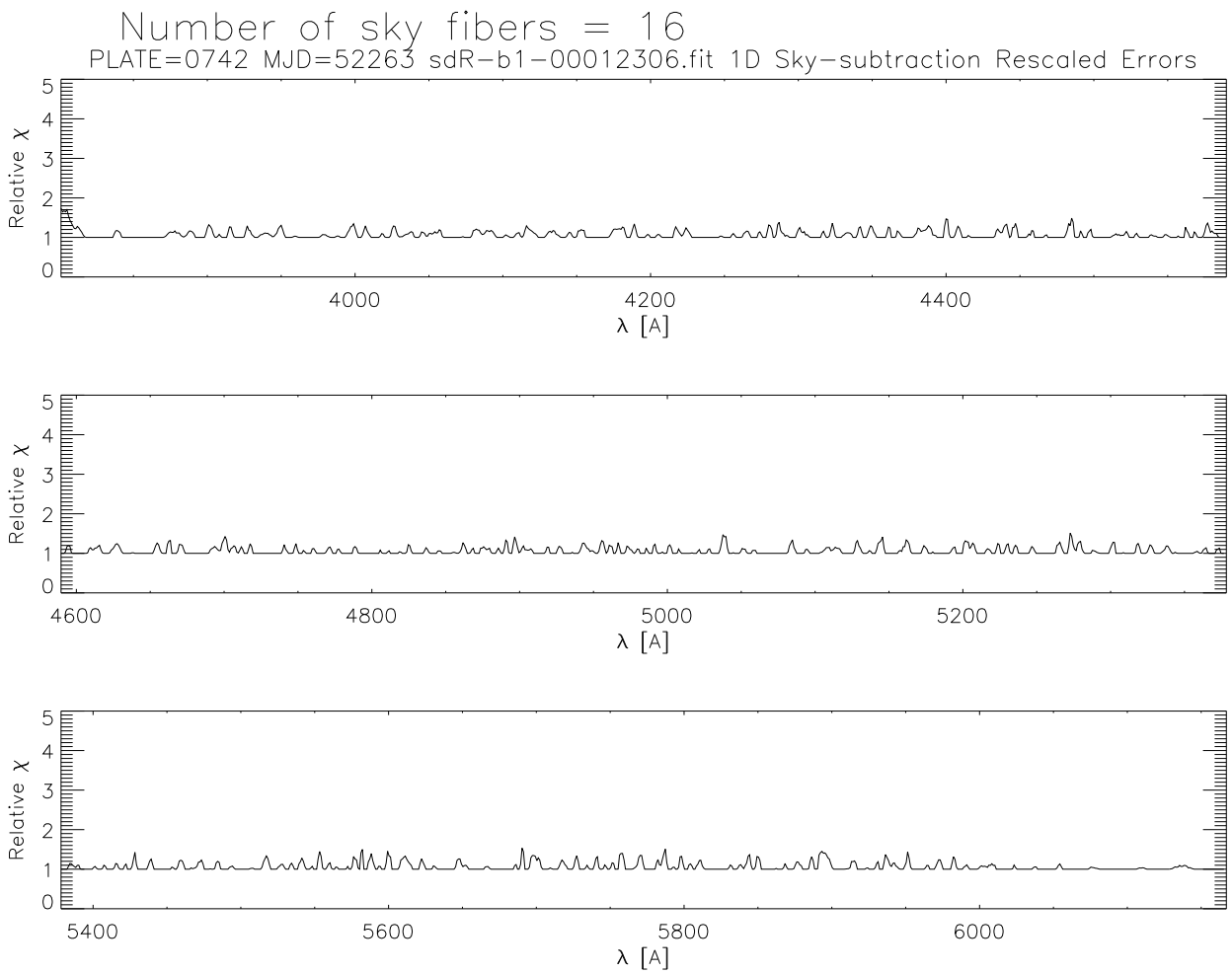
es= 0.0000

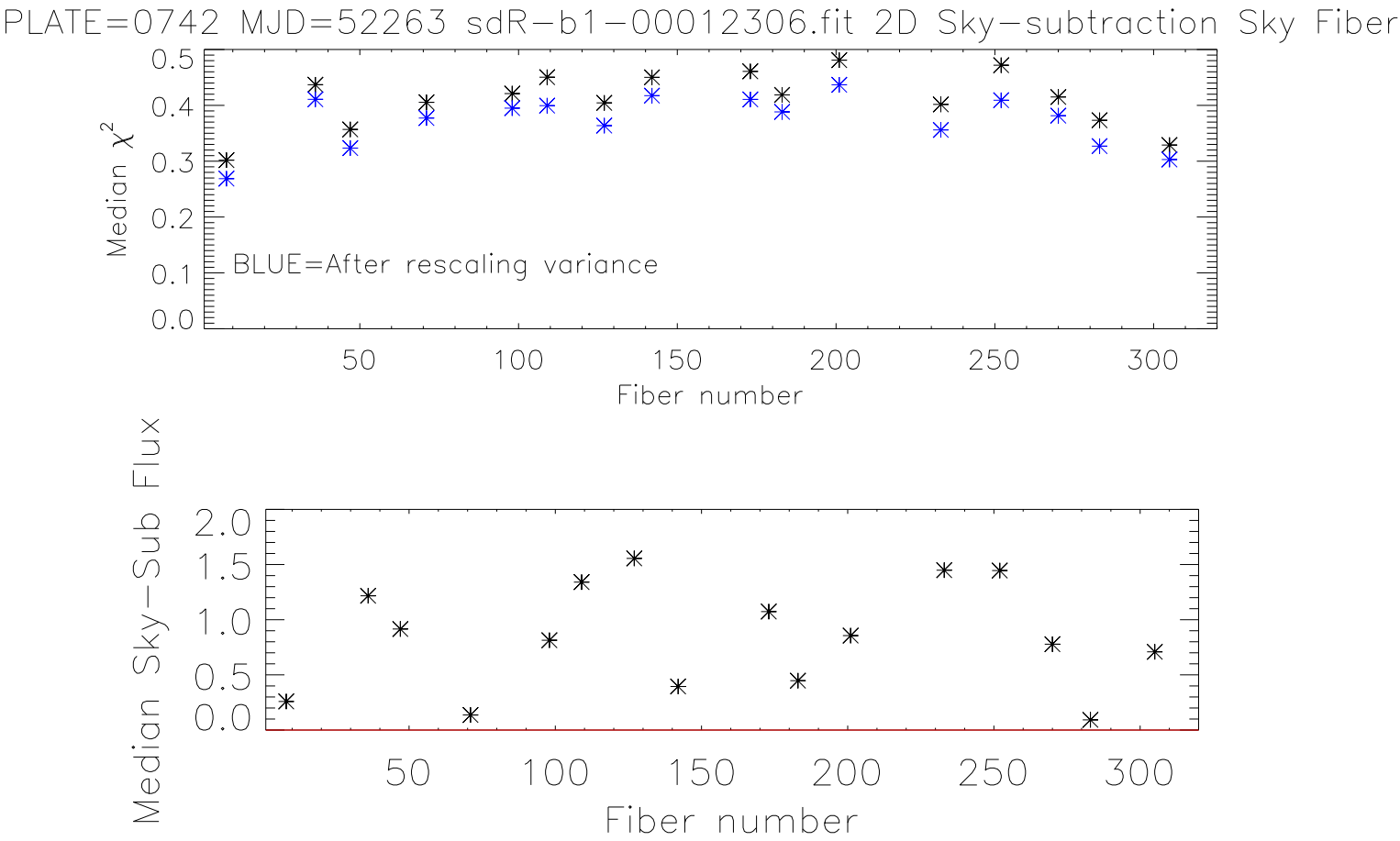

PLATE=0742 MJD=52263 Smooth superflat for sdR-b1-00012306.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

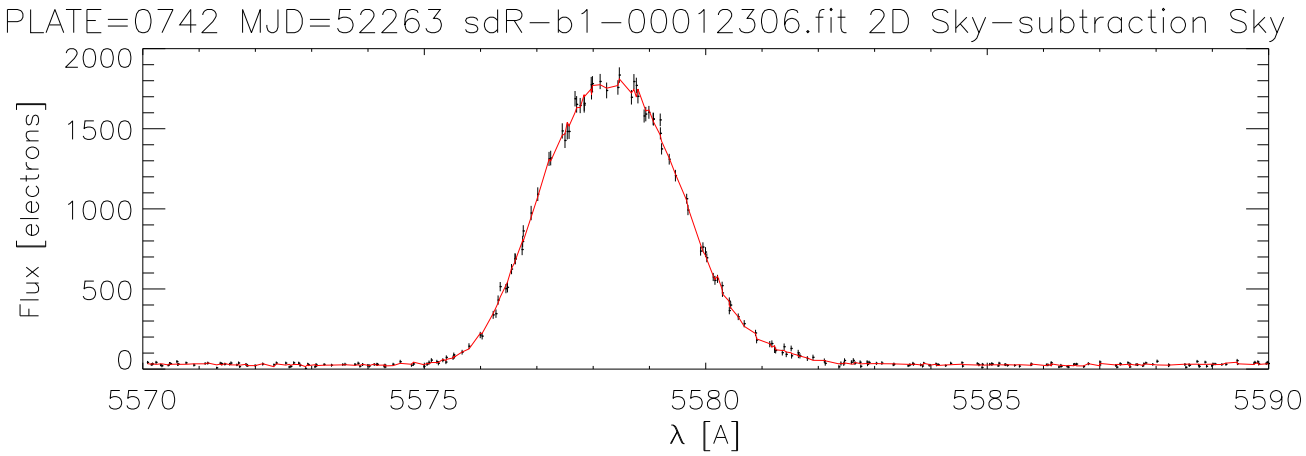

PLATE=0742 MJD=52263 sdR-b1-00012306.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

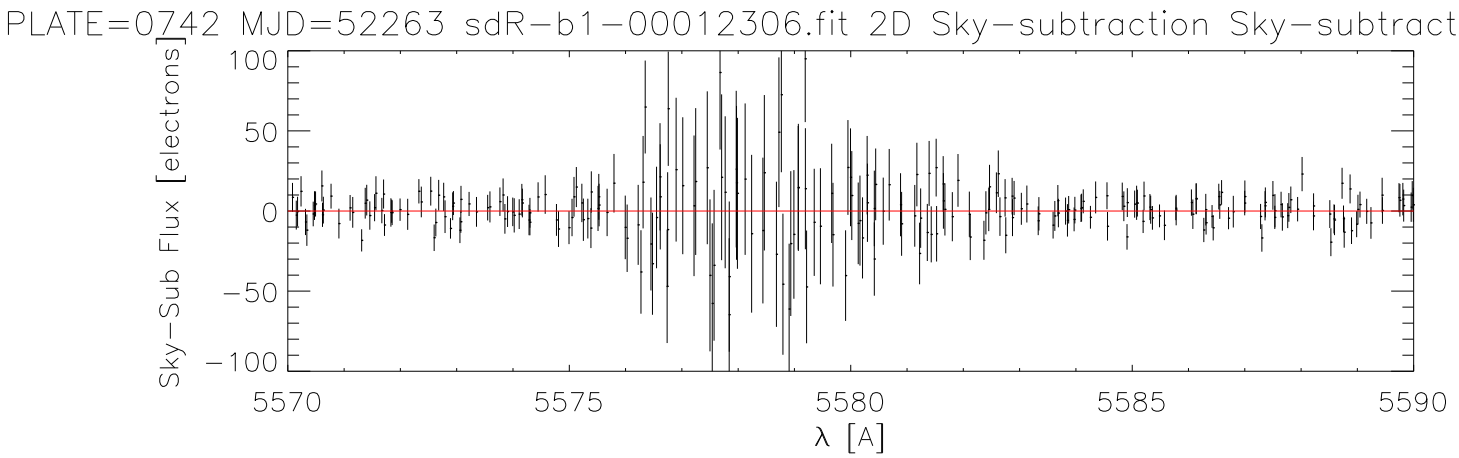

PLATE=0742 MJD=52263 sdR-b1-00012306.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

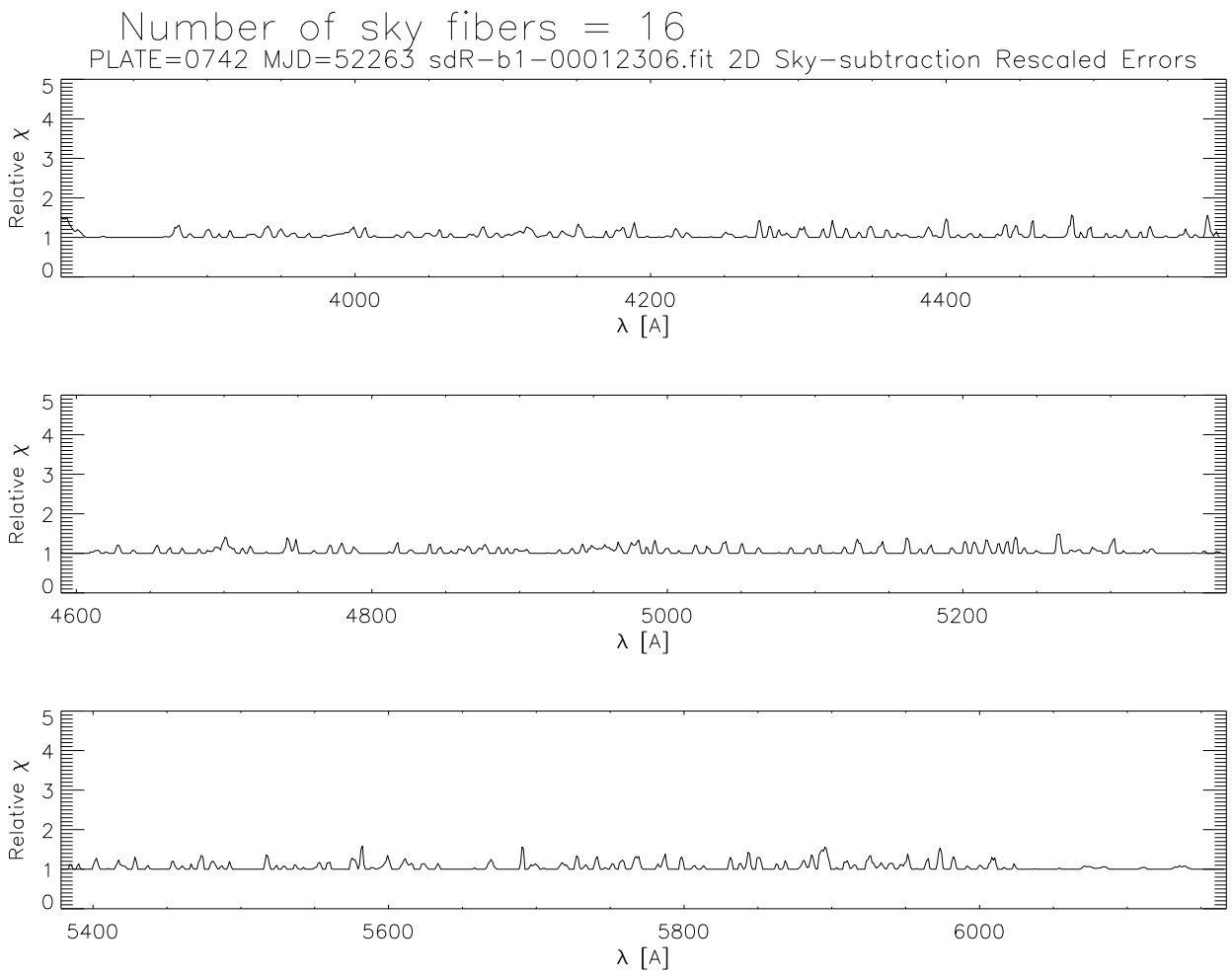

PLATE=0742 MJD=52263 sdR-b1-00012306.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
5570
5575
5580
5585
5590
λ [A]

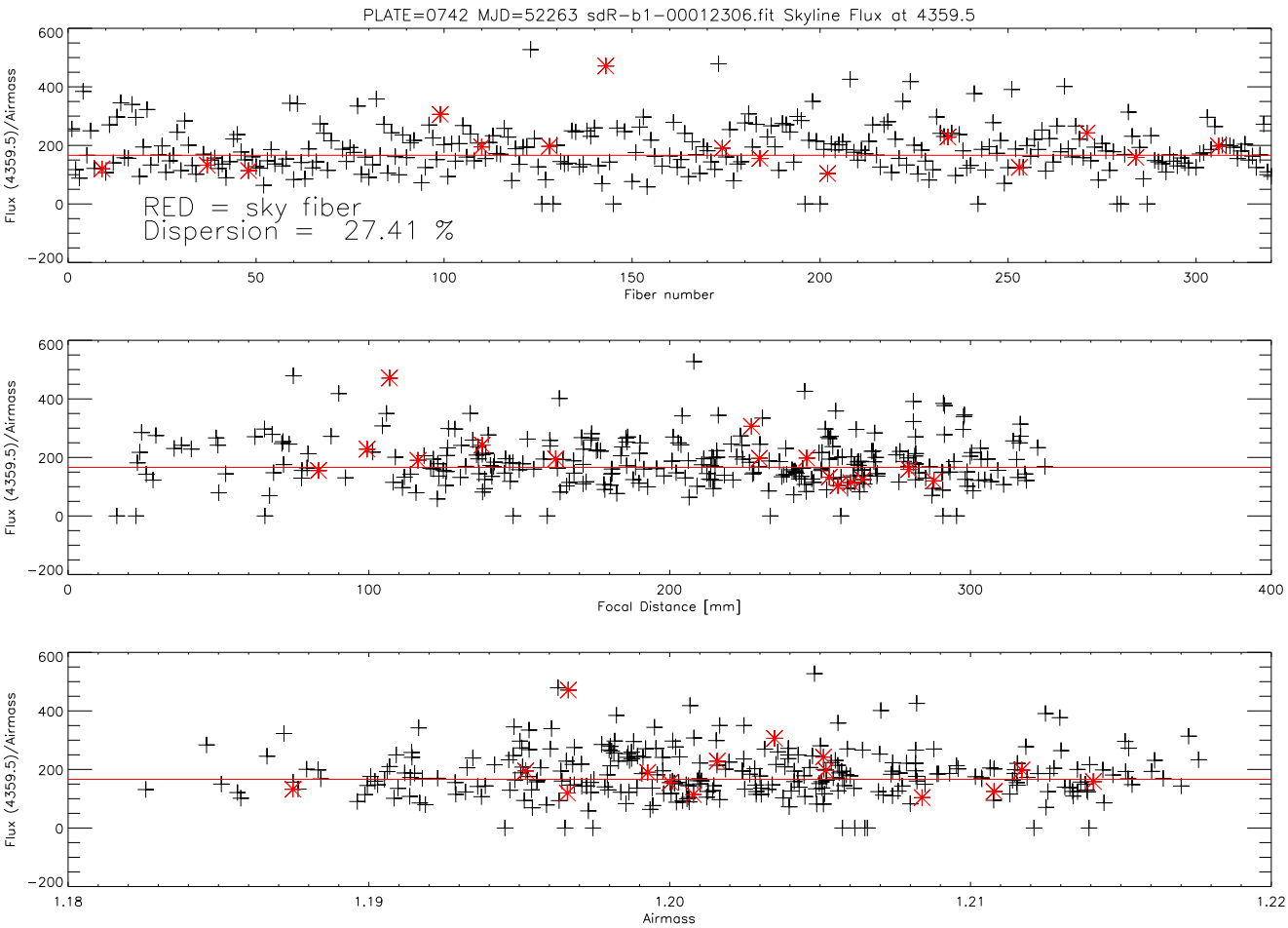

Number of sky fibers = 16
PLATE=0742 MJD=52263 sdR-b1-00012306.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

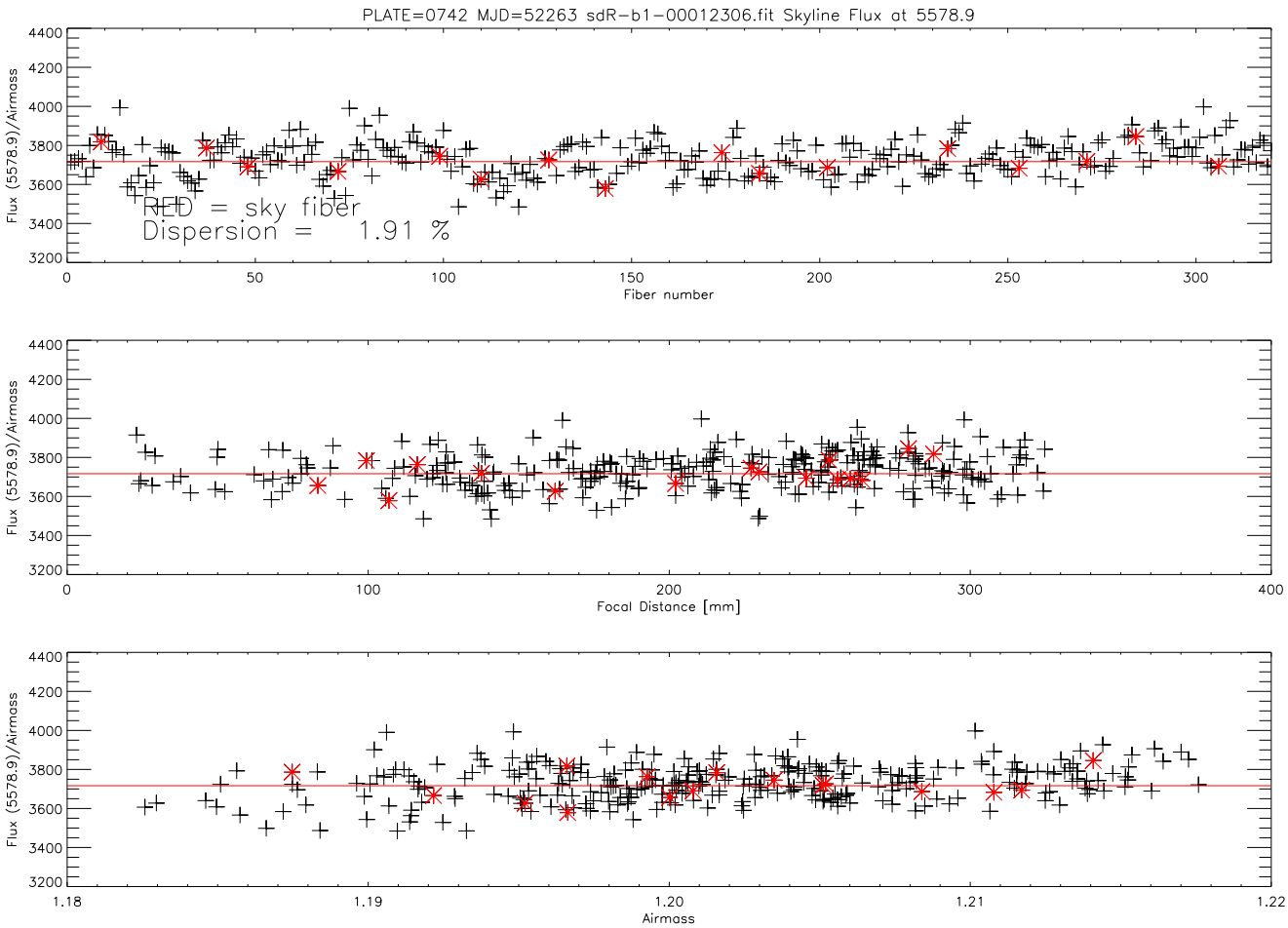

PLATE=0742 MJD=52263 sdR-b1-00012306.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
0.0
0.5
1.0
1.5
2.0
50
100
150
200
250
300
Fiber number

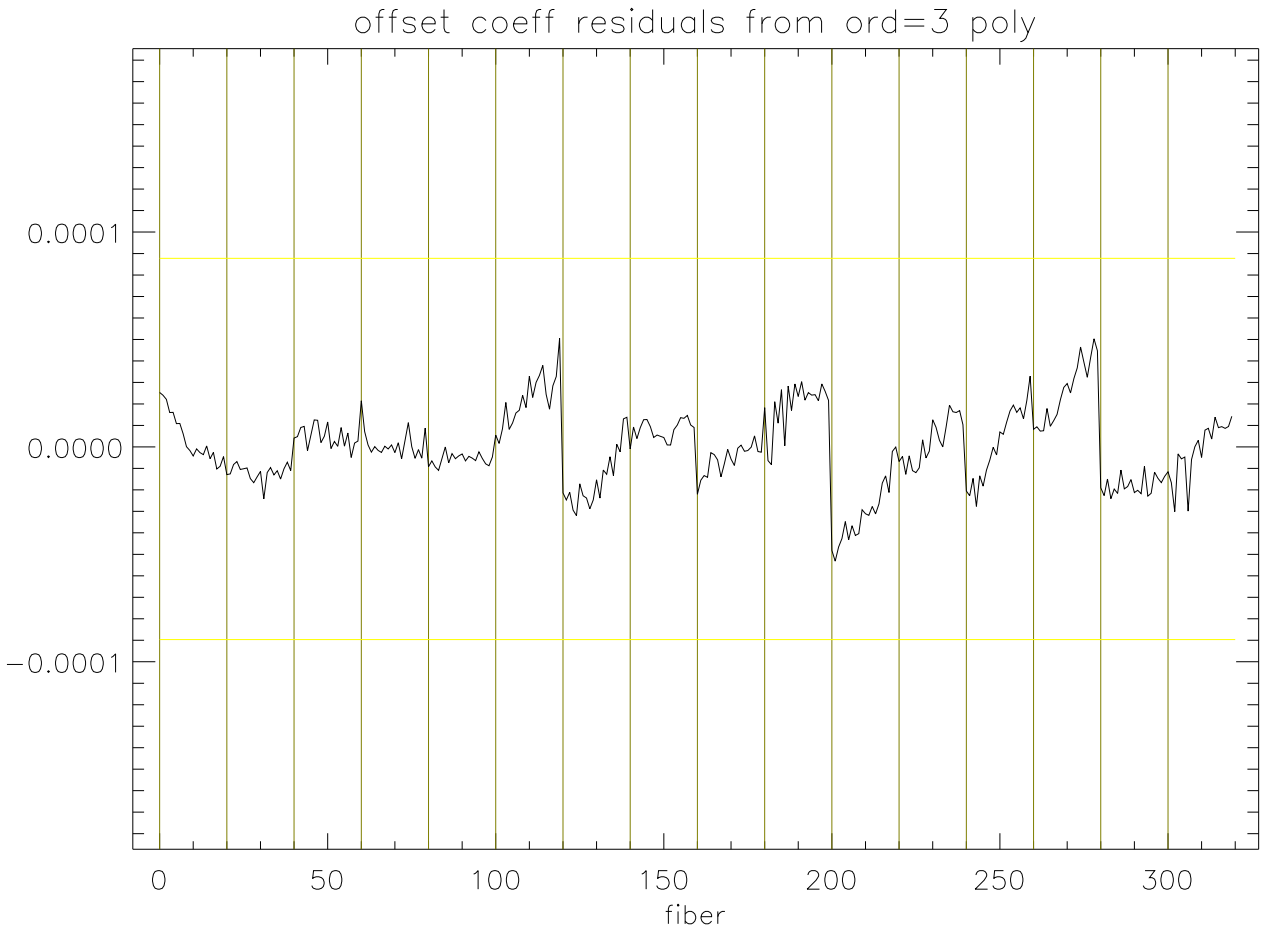

PLATE=0742 MJD=52263 sdR-b1-00012306.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

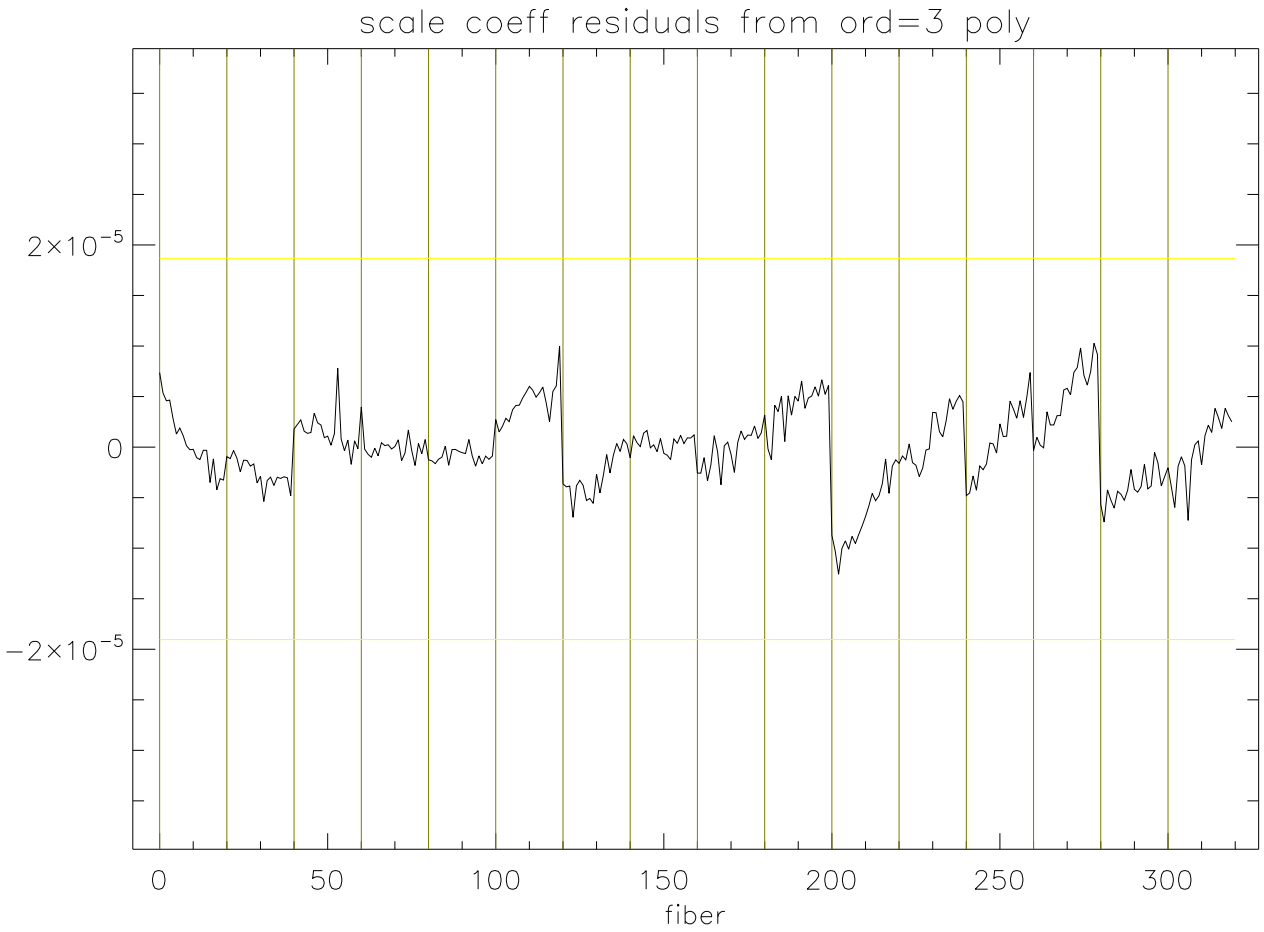

PLATE=0742 MJD=52263 sdR-b1-00012306.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
5570
5575
5580
5585
5590
λ [A]

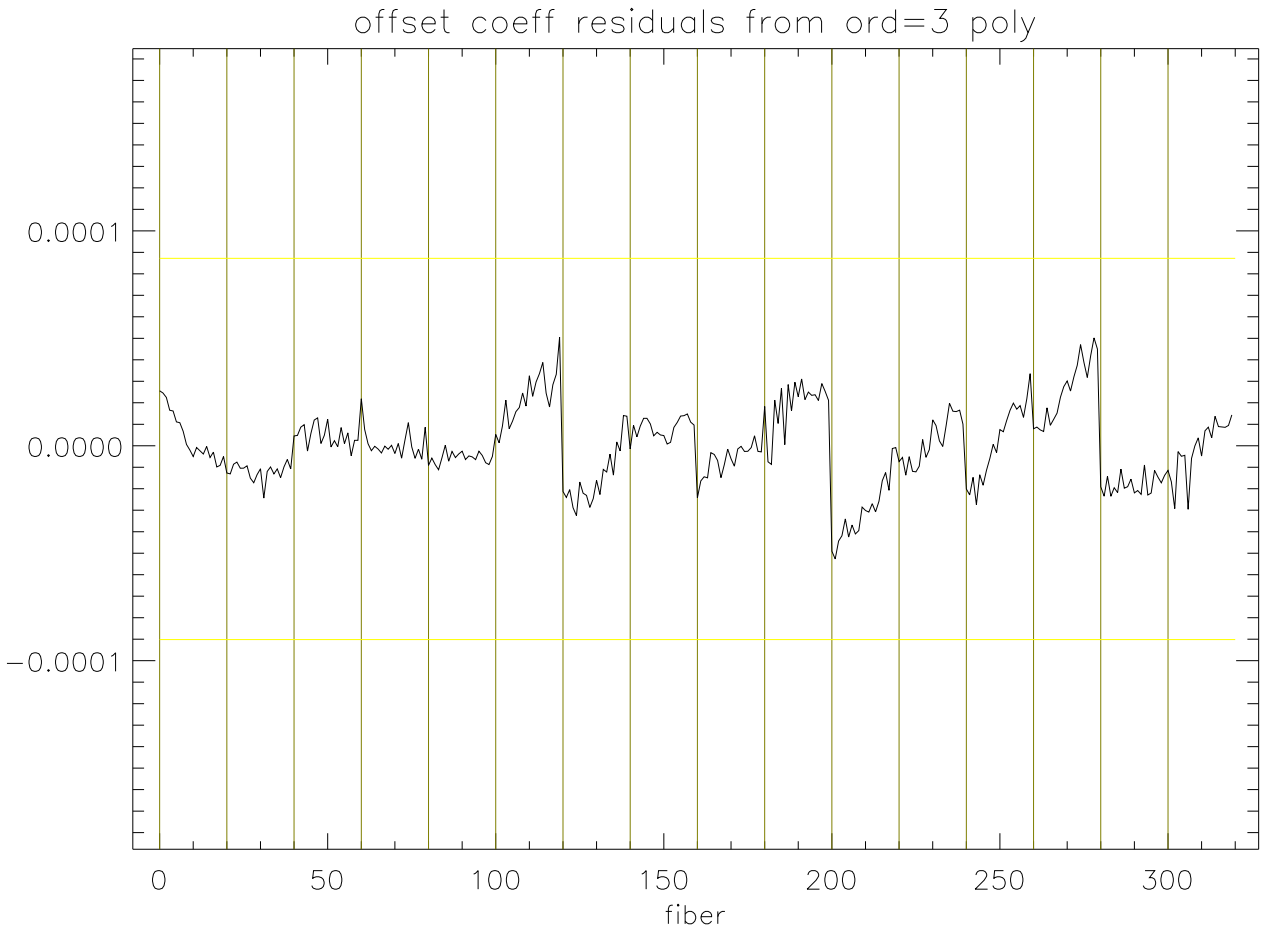

Number of sky fibers = 16
PLATE=0742 MJD=52263 sdR-b1-00012306.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

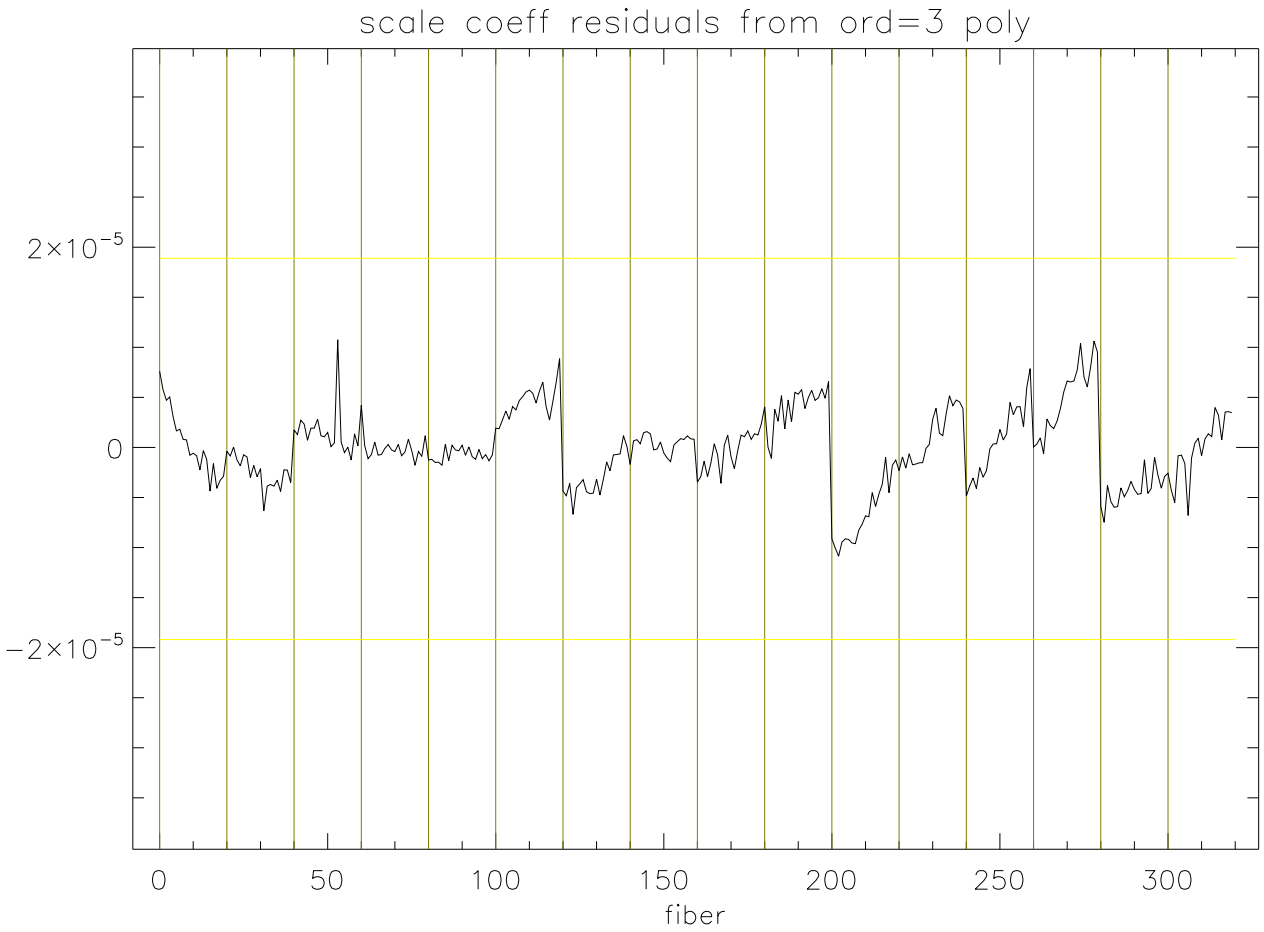

PLATE=0742 MJD=52263 sdR-b1-00012306.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 27.41 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

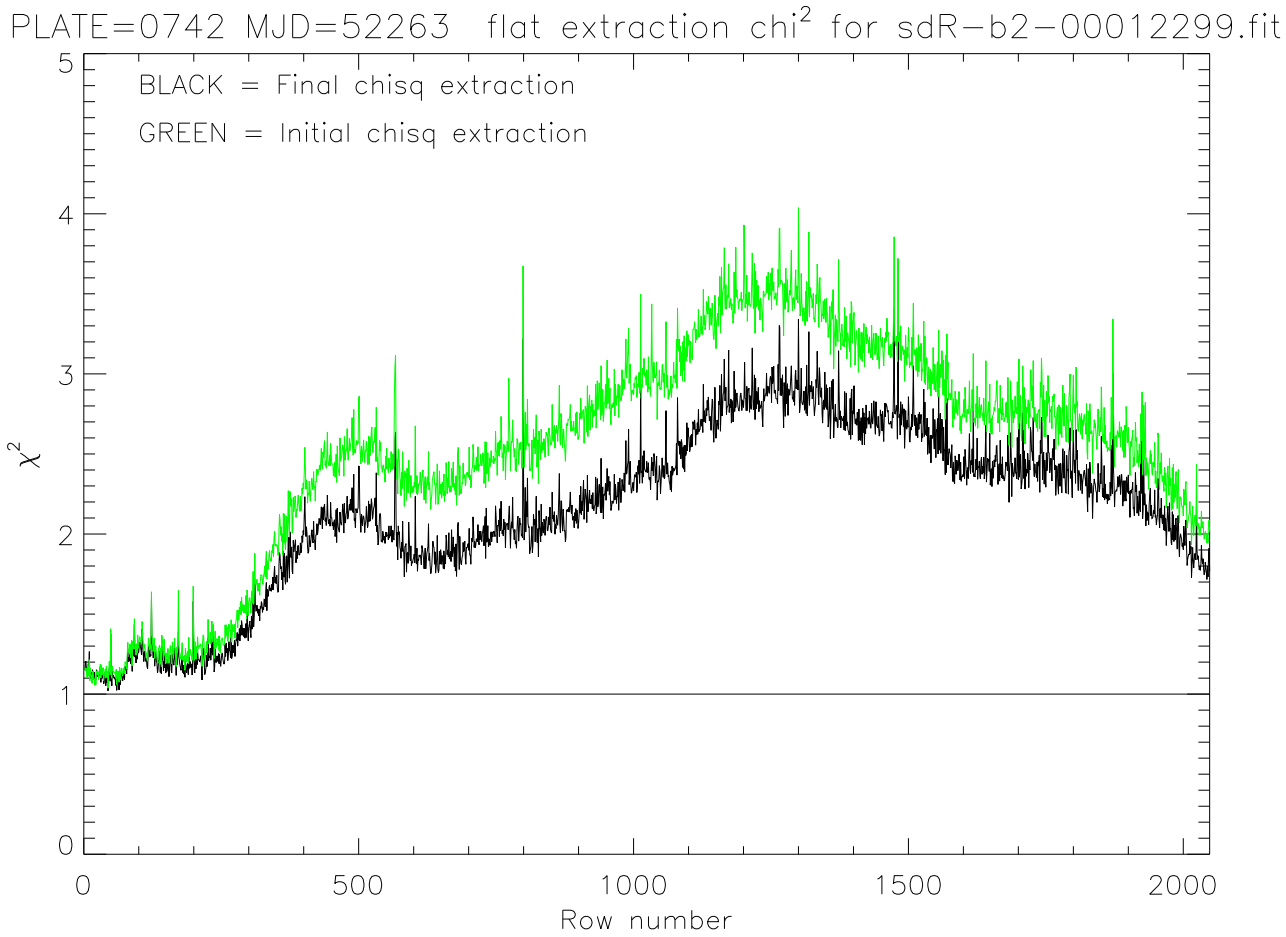

PLATE=0742 MJD=52263 sdR-b1-00012306.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.91 %
Fiber number
Focal Distance [mm]
Airmass

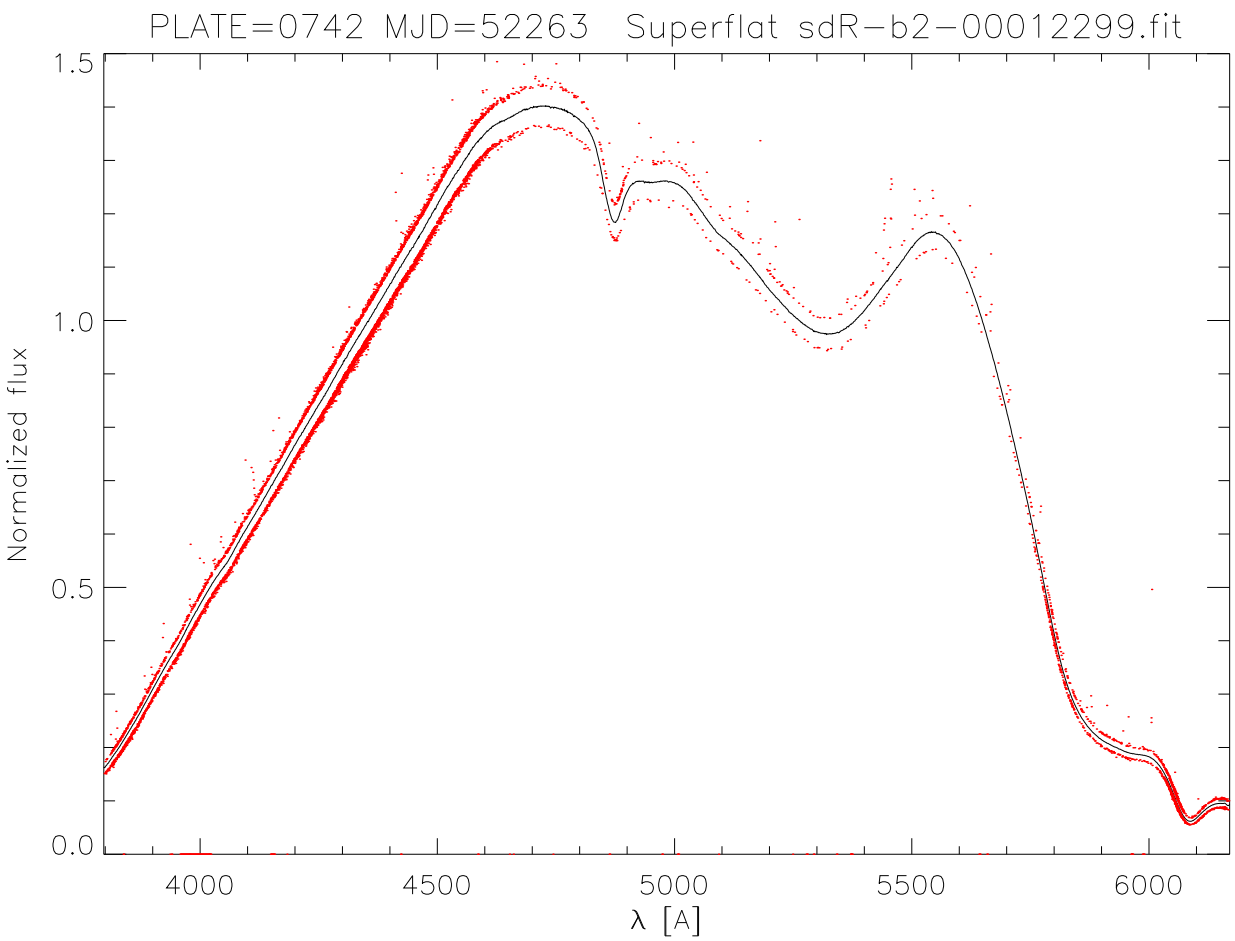

offset coeff residuals from ord=3 poly
0.0001
0.0000
−0.0001
0
50
100
150
200
250
300
fiber

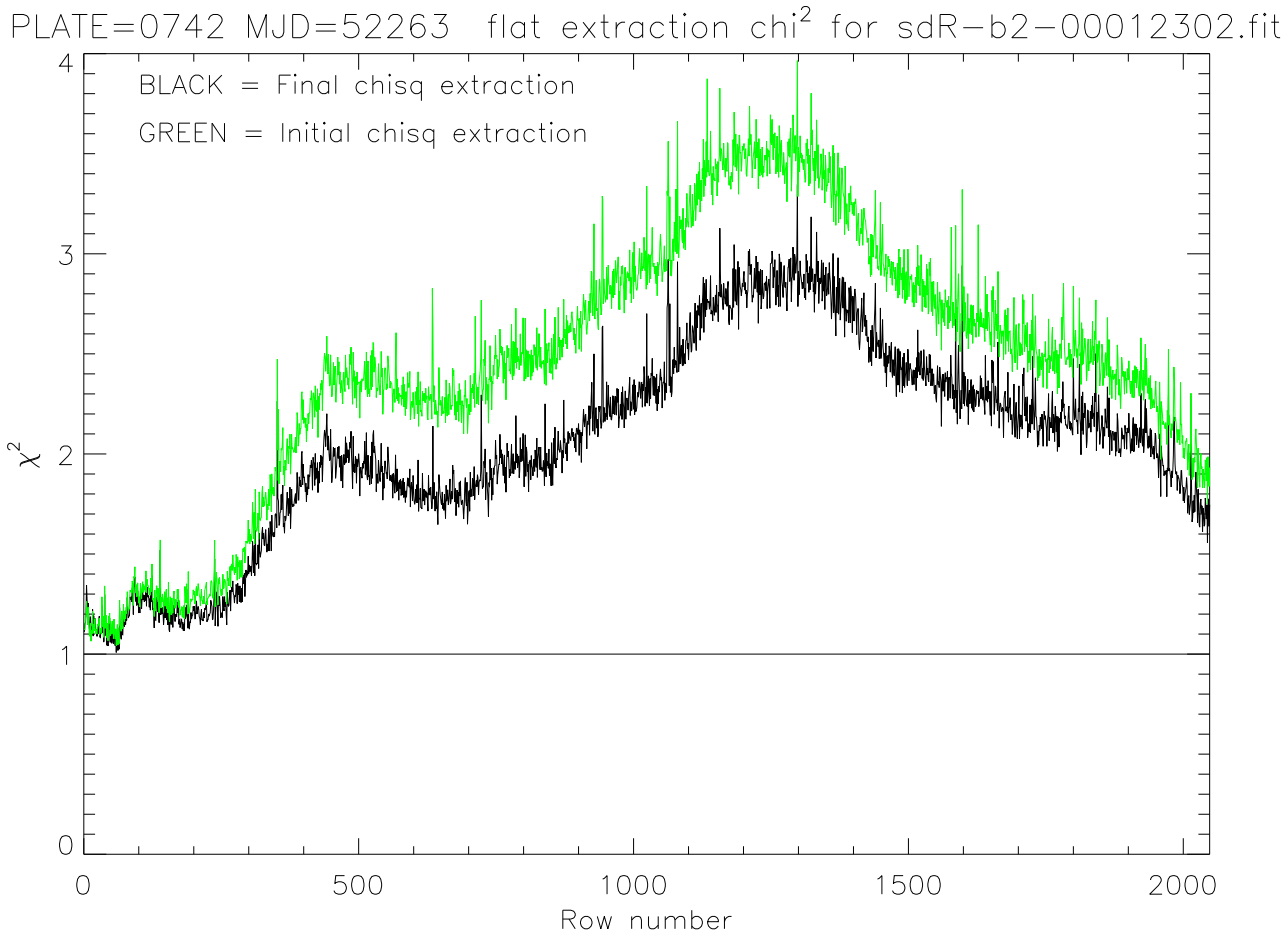

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

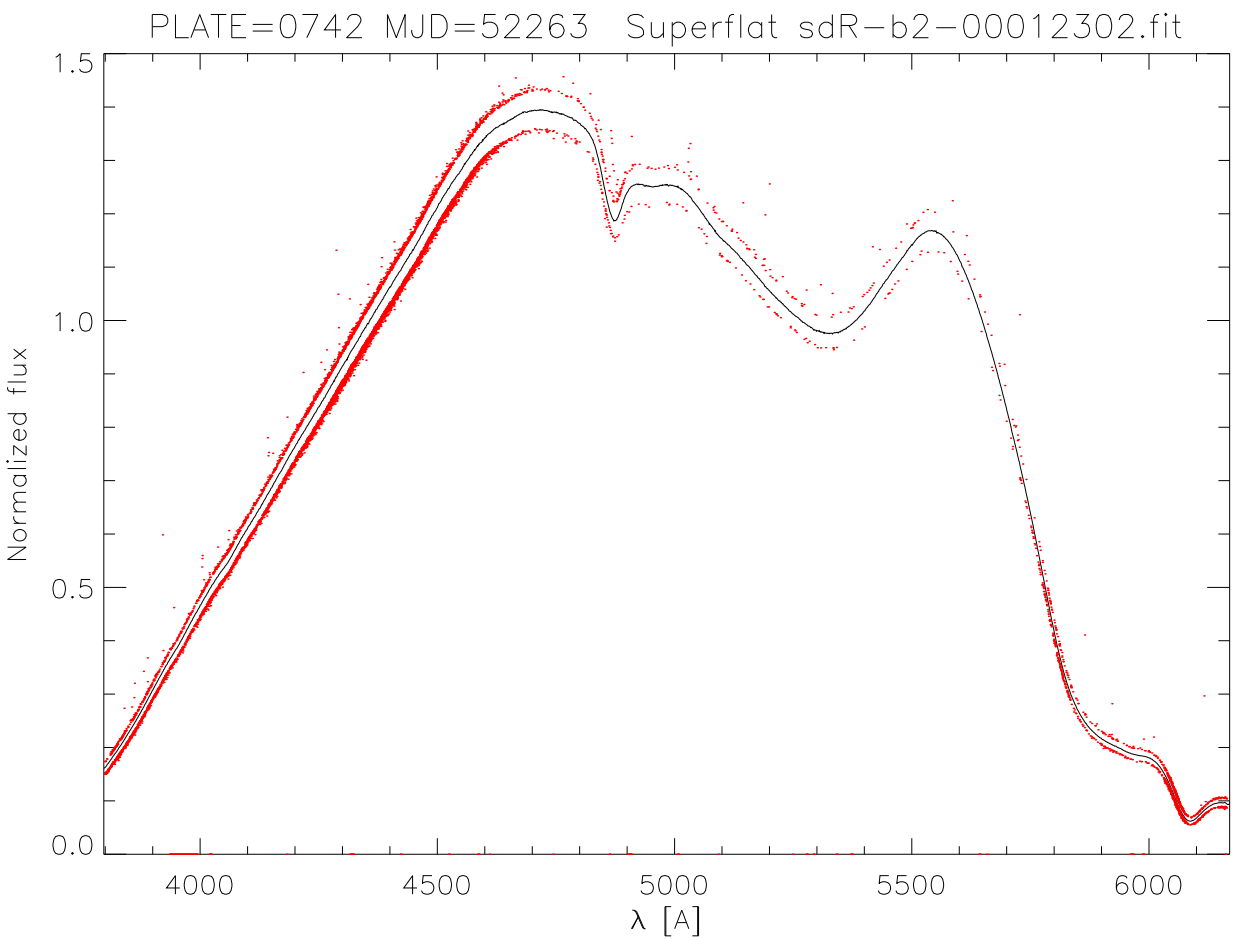

offset coeff residuals from ord=3 poly
0.0001
0.0000
−0.0001
0
50
100
150
200
250
300
fiber

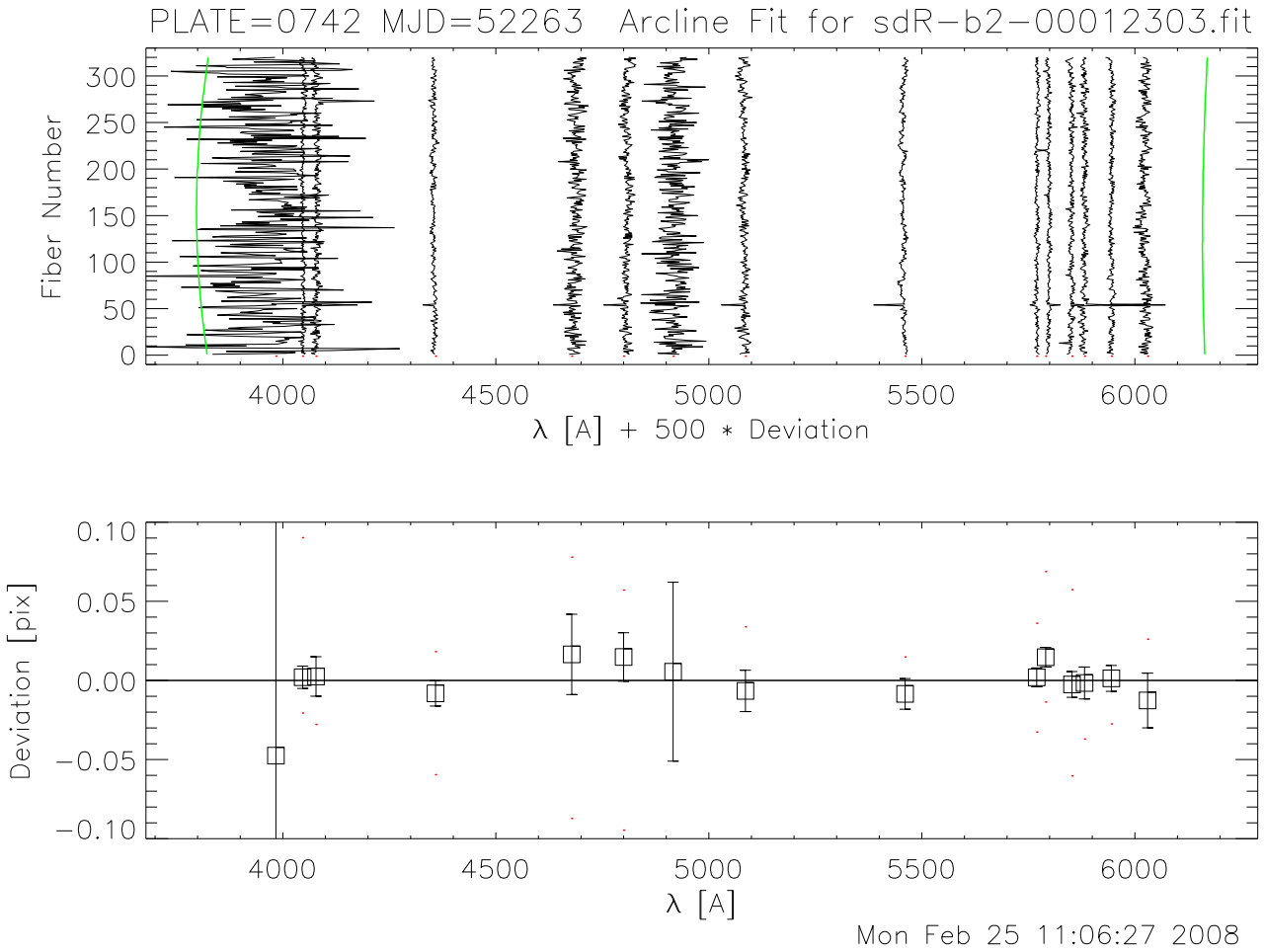

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

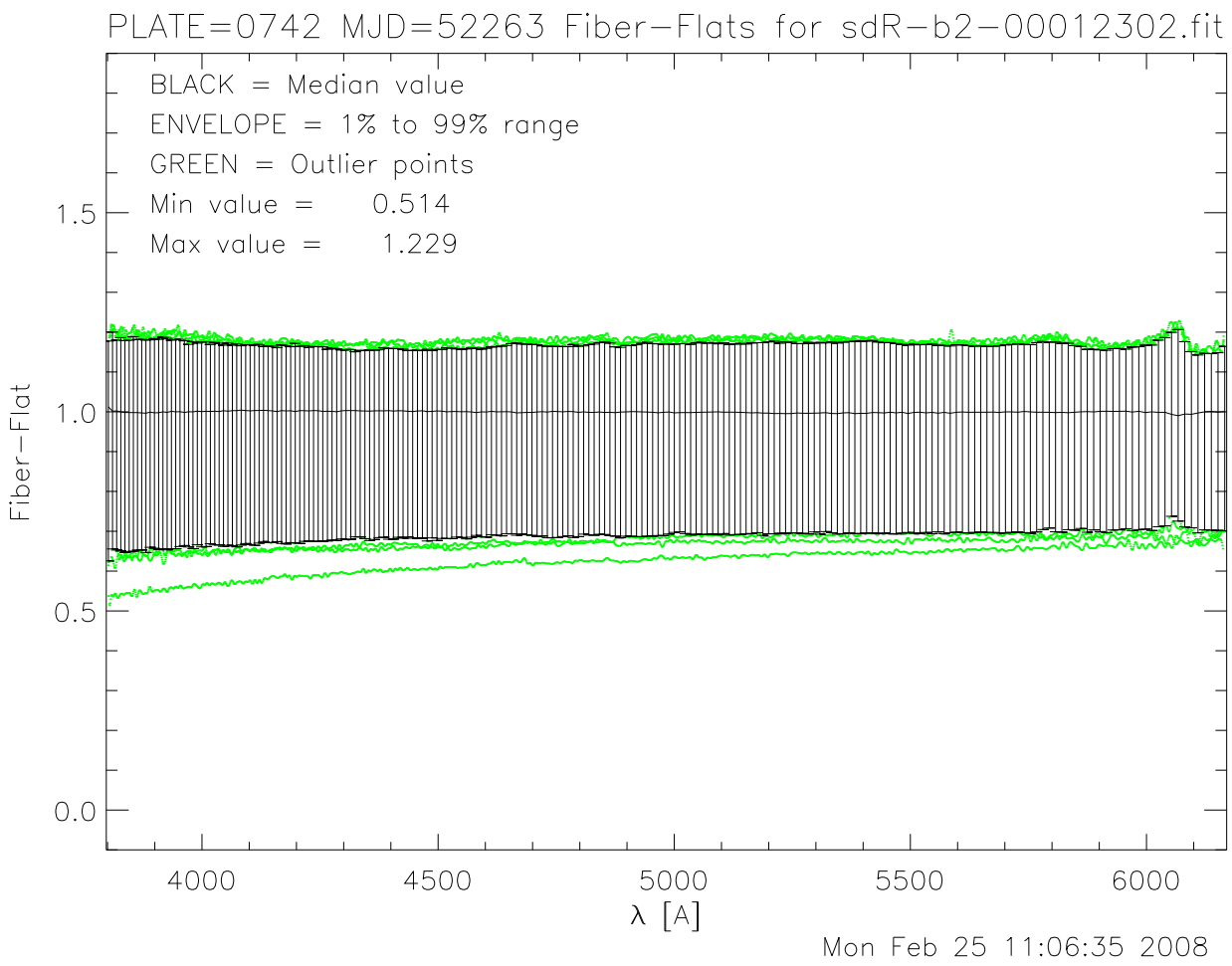

PLATE=0742 MJD=52263 flat extraction chi^2 for sdR−b2−00012299.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
0
500
1000
1500
2000

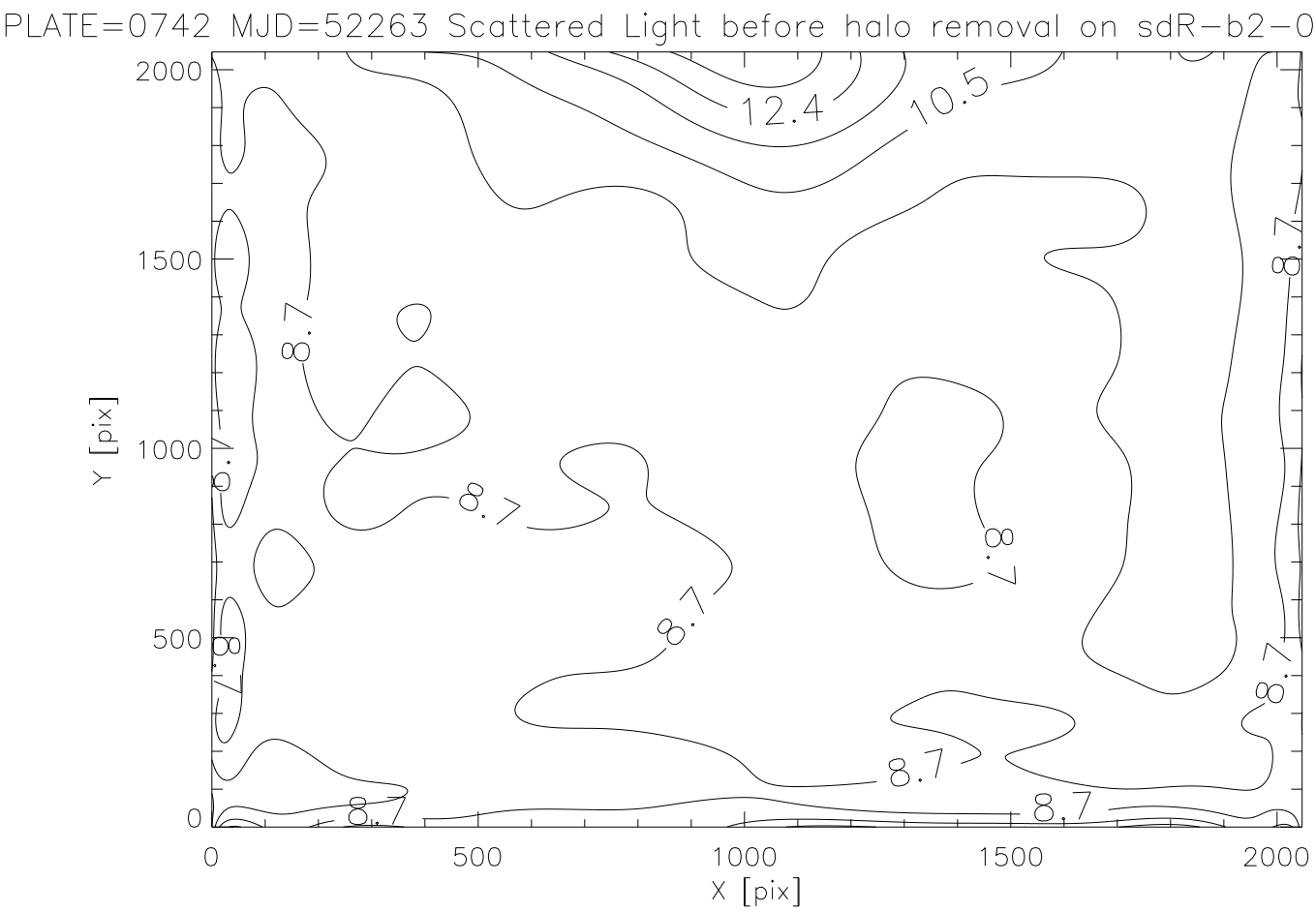

PLATE=0742 MJD=52263 Superflat sdR-b2-00012299.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

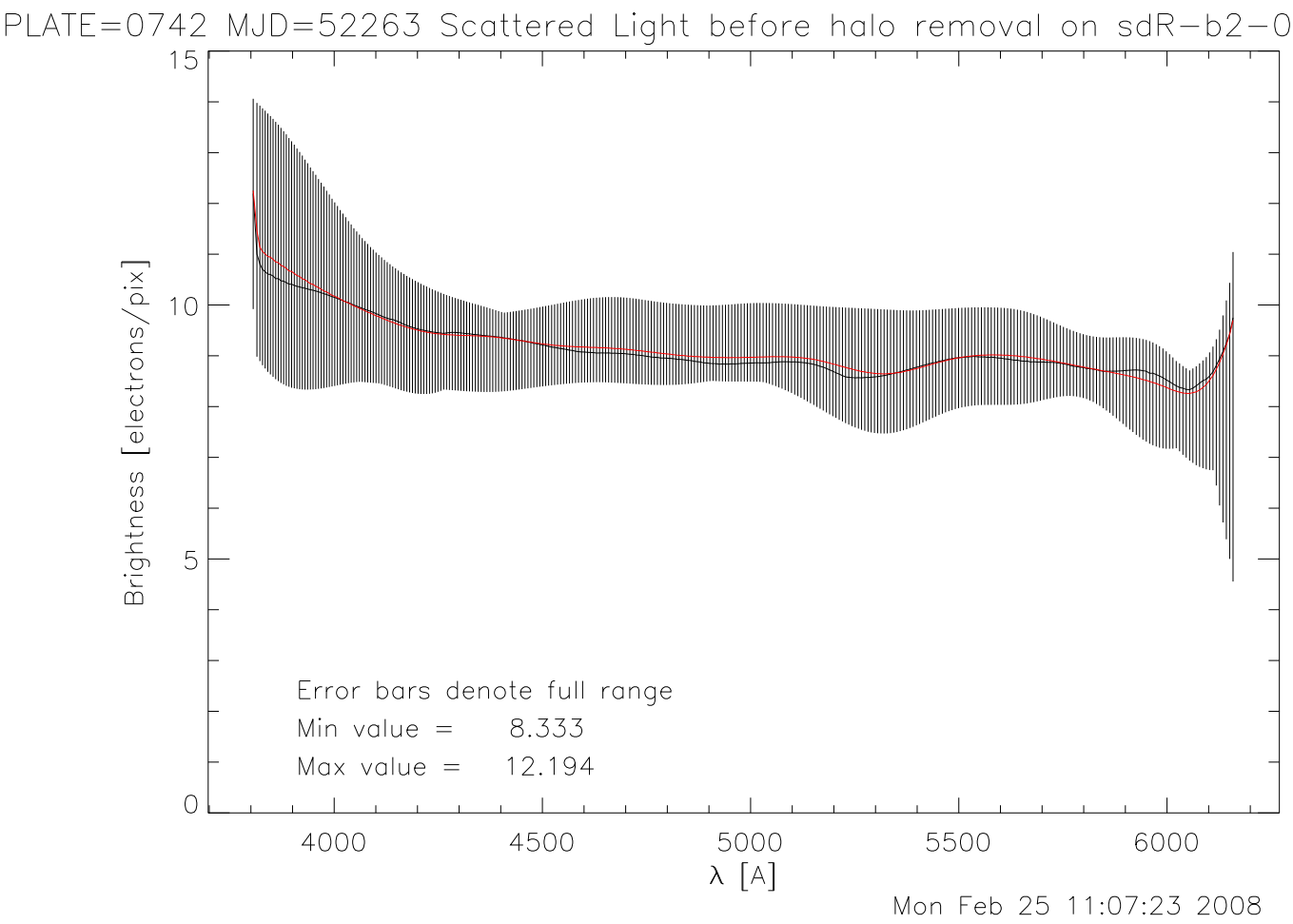

PLATE=0742 MJD=52263 flat extraction chi^2 for sdR−b2−00012302.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
0
500
1000
1500
2000

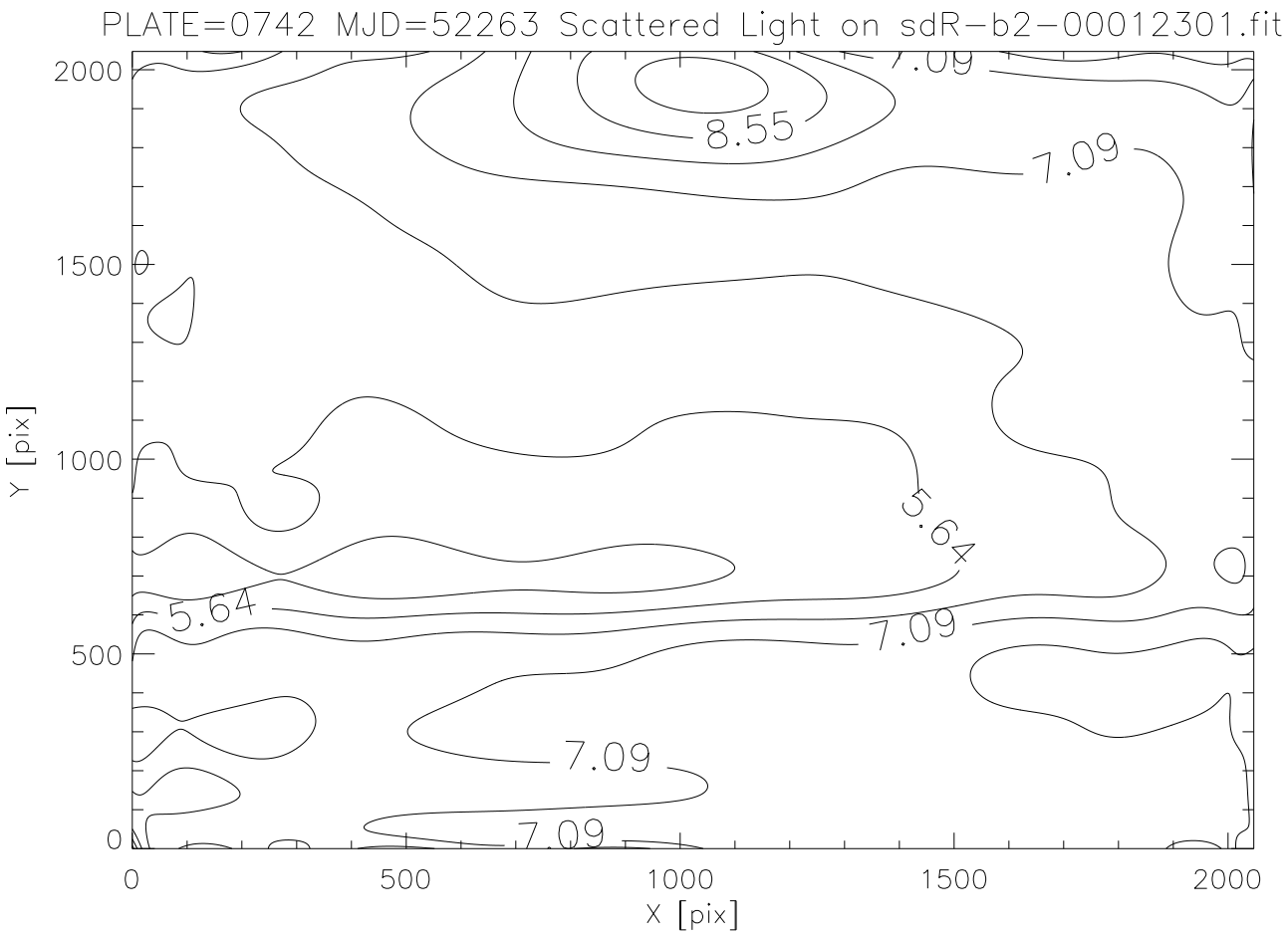

PLATE=0742 MJD=52263 Superflat sdR-b2-00012302.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

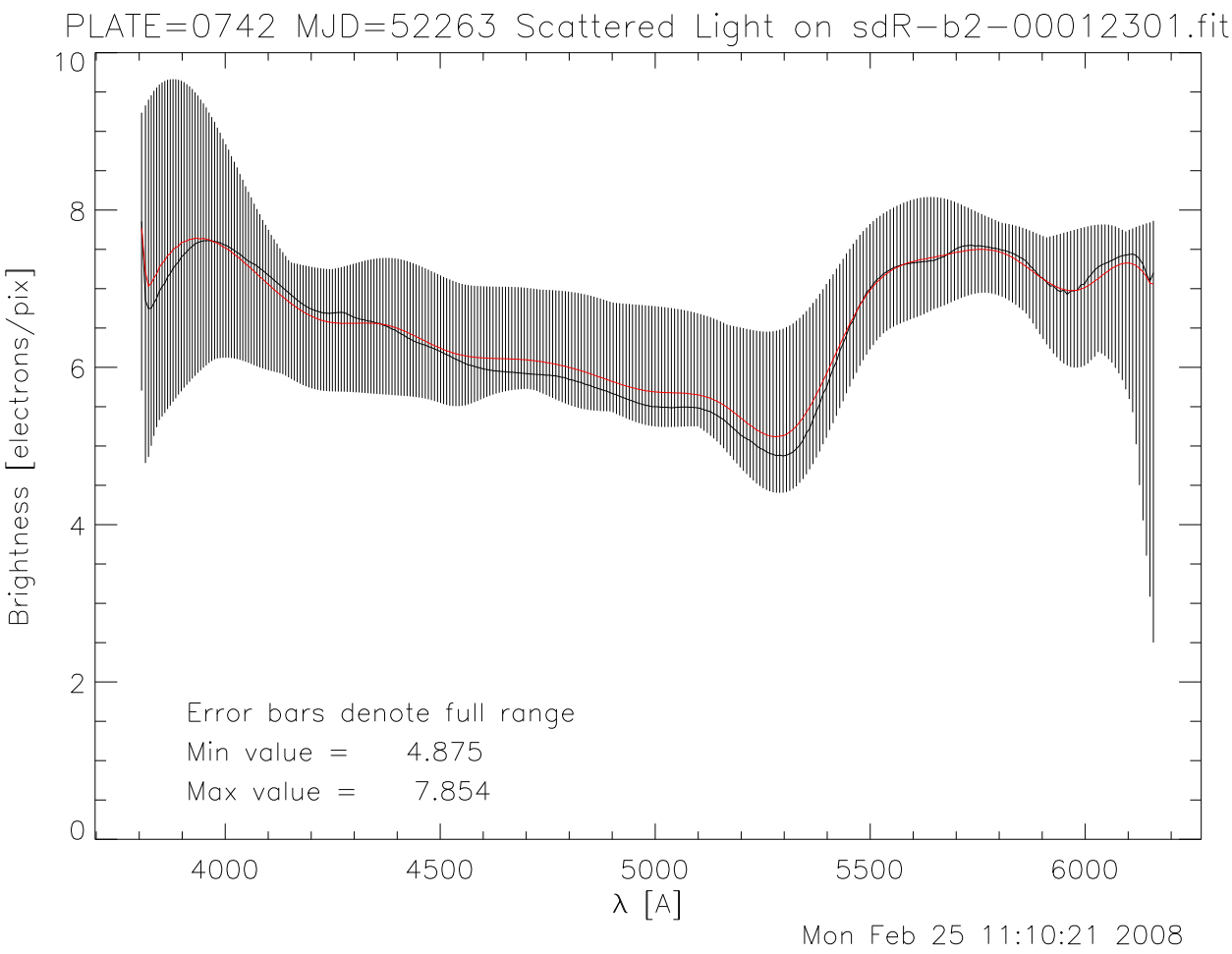

PLATE=0742 MJD=52263 Arcline Fit for sdR-b2-00012303.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 11:06:27 2008

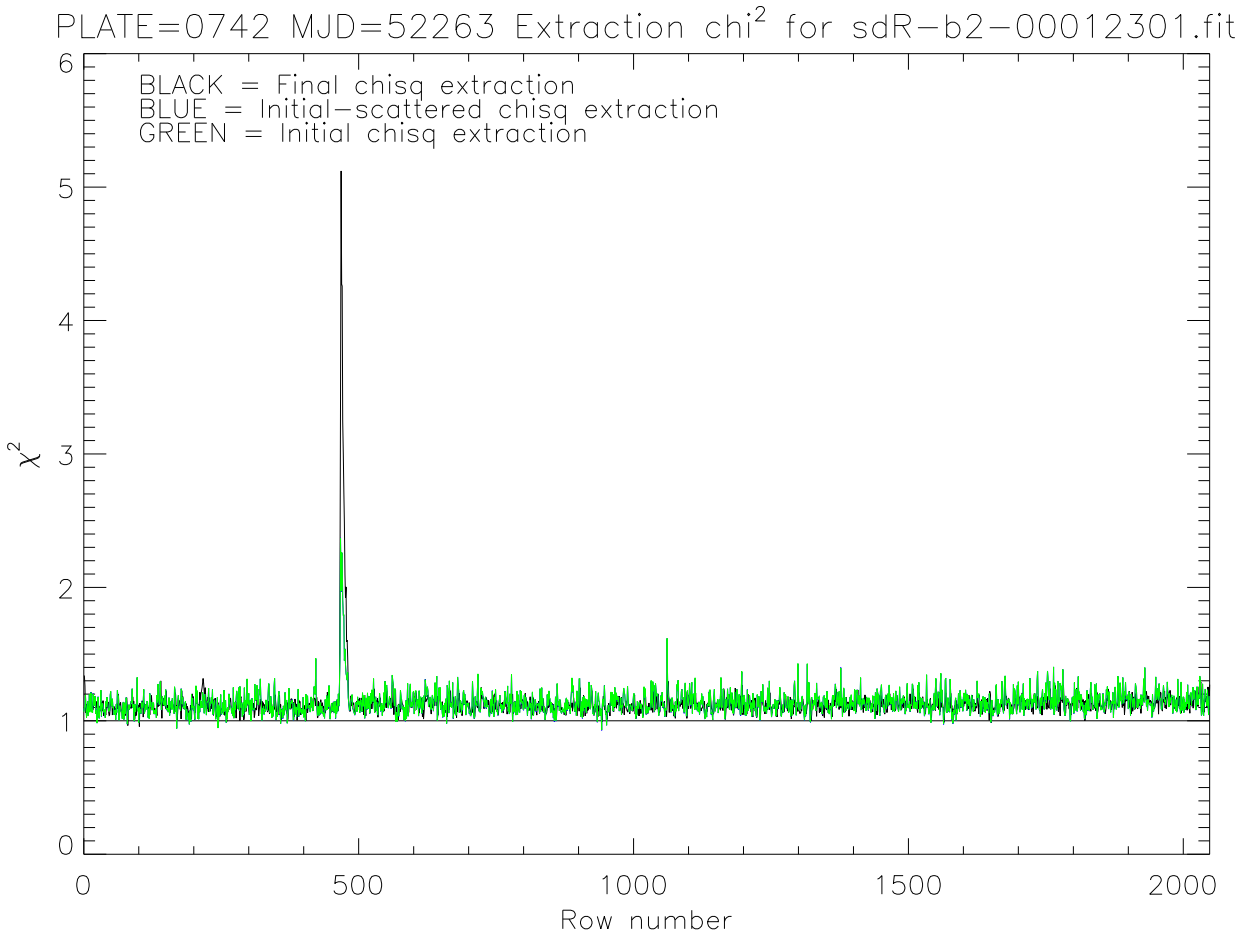

PLATE=0742 MJD=52263 Fiber-Flats for sdR-b2-00012302.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.514
Max value = 1.229
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 11:06:35 2008

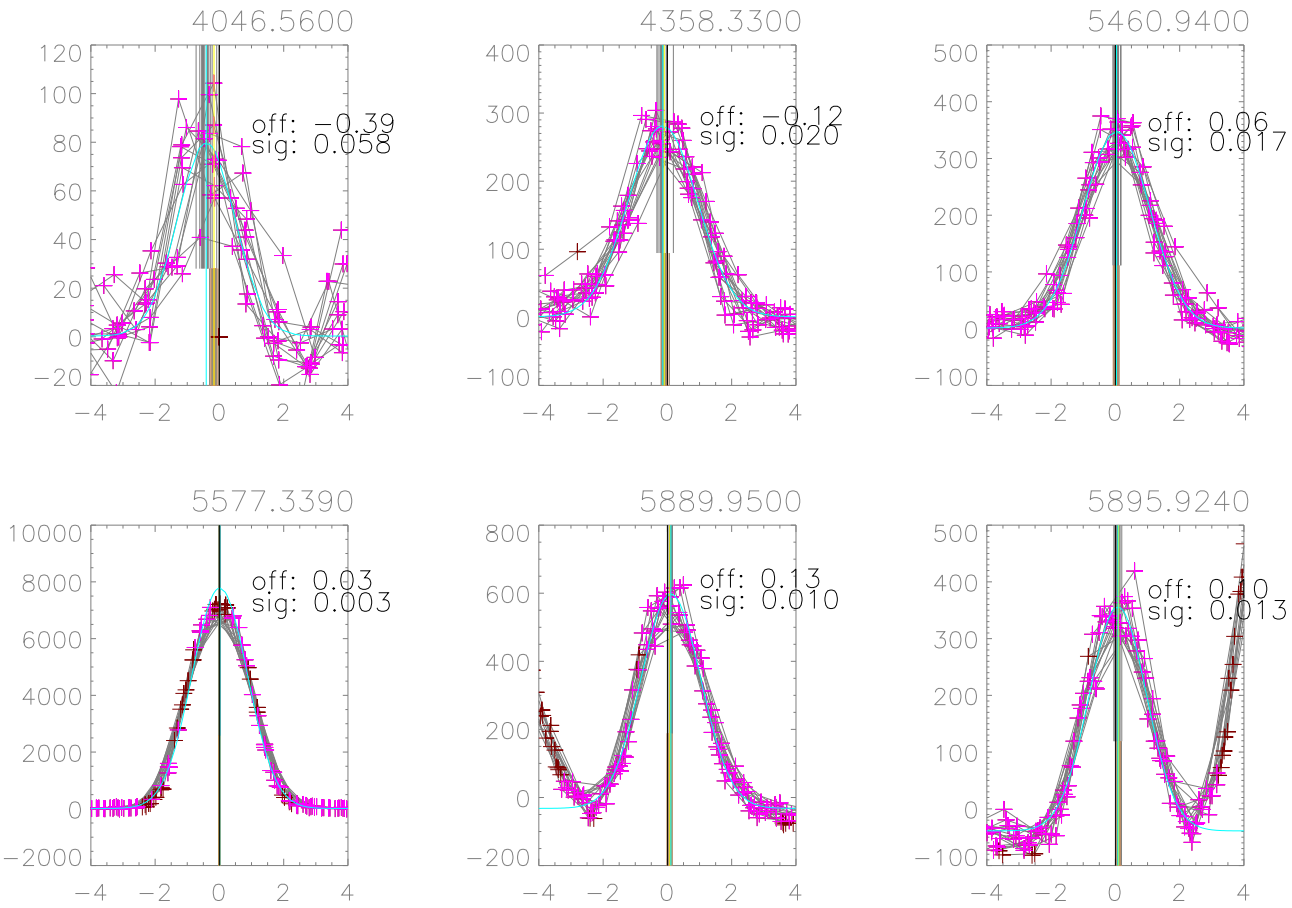

PLATE=0742 MJD=52263 Scattered Light before halo removal on sdR−b2−00012301.f
12.4
10.5
8.7
Y [pix]
X [pix]
0
500
1000
1500
2000

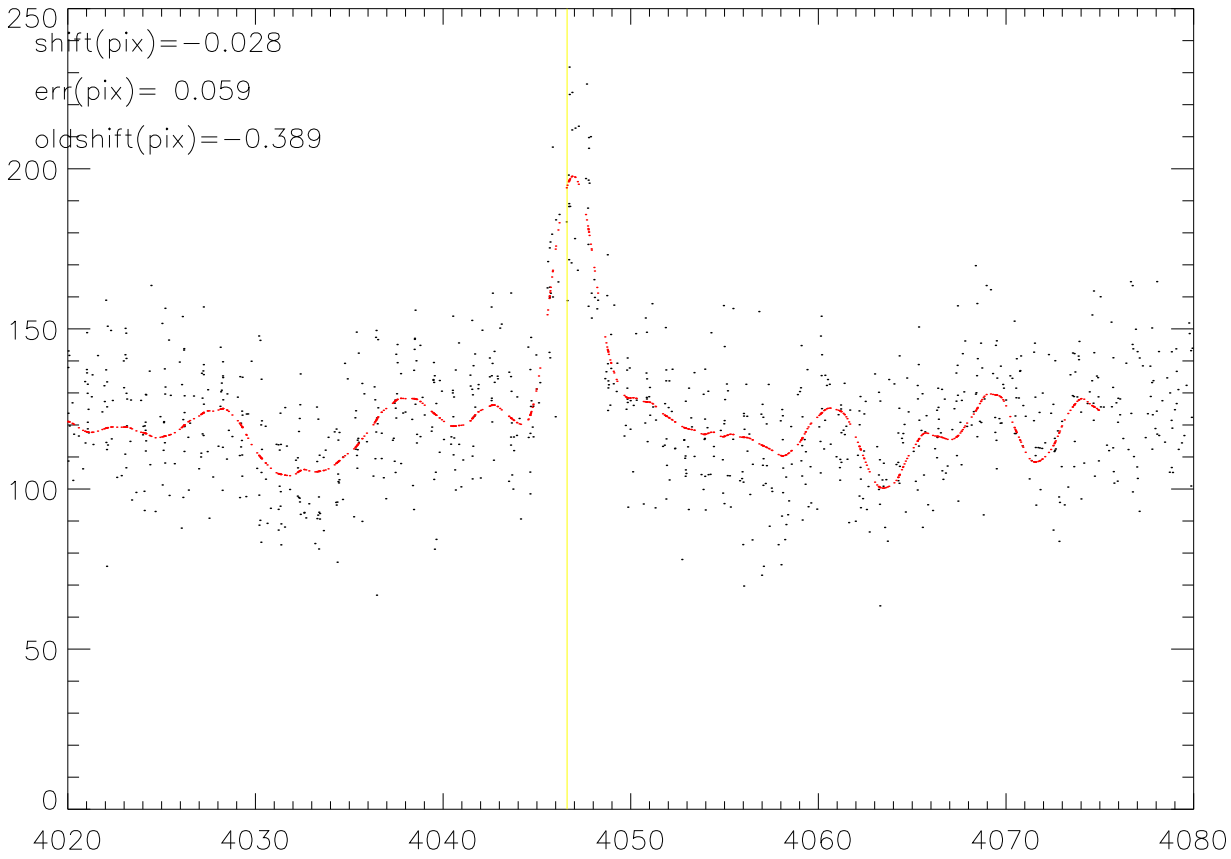

PLATE=0742 MJD=52263 Scattered Light before halo removal on sdR-b2-00012301.f
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 8.333
Max value = 12.194
Mon Feb 25 11:07:23 2008

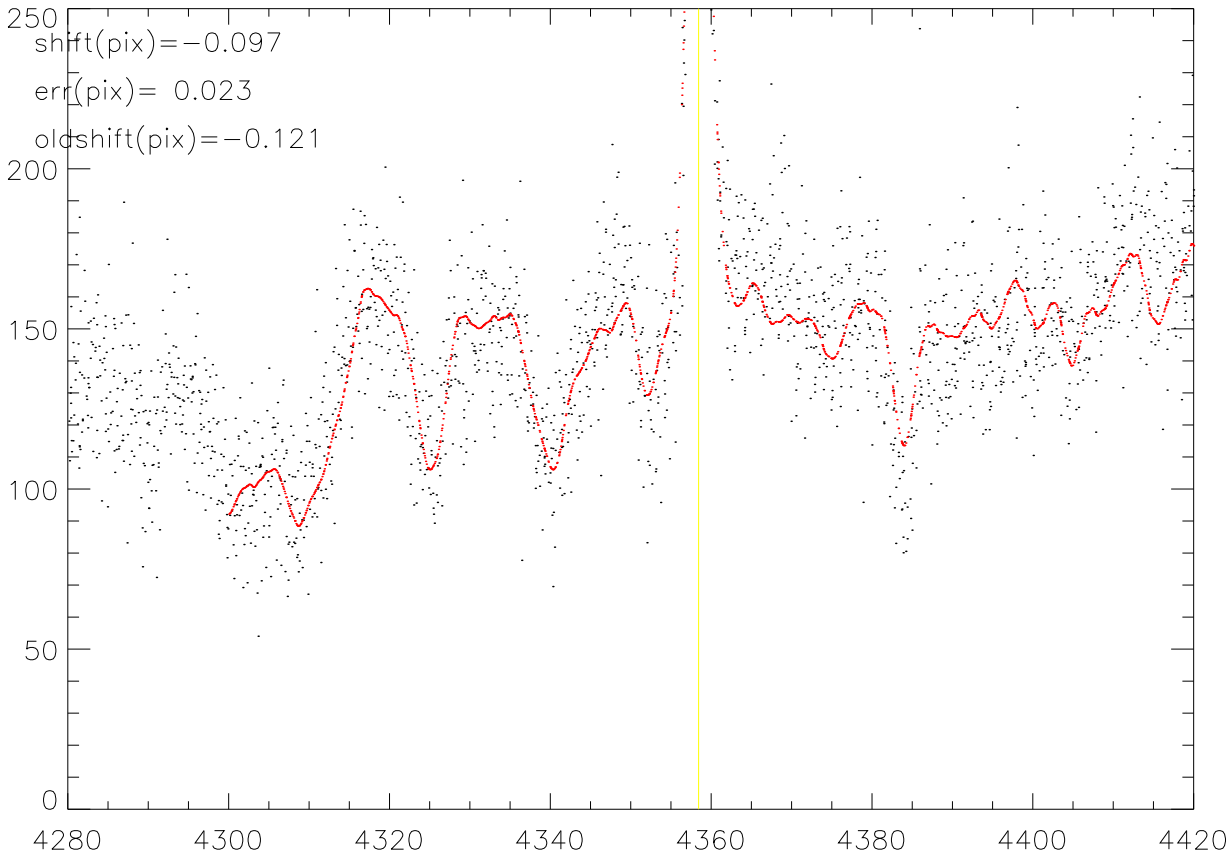

PLATE=0742 MJD=52263 Scattered Light on sdR-b2-00012301.fit
8.55
7.09
5.64
7.09
5.64
7.09
7.09
0
0
0
Y [pix]
X [pix]
2000
1500
1000
500
0
0
500
1000
1500
2000

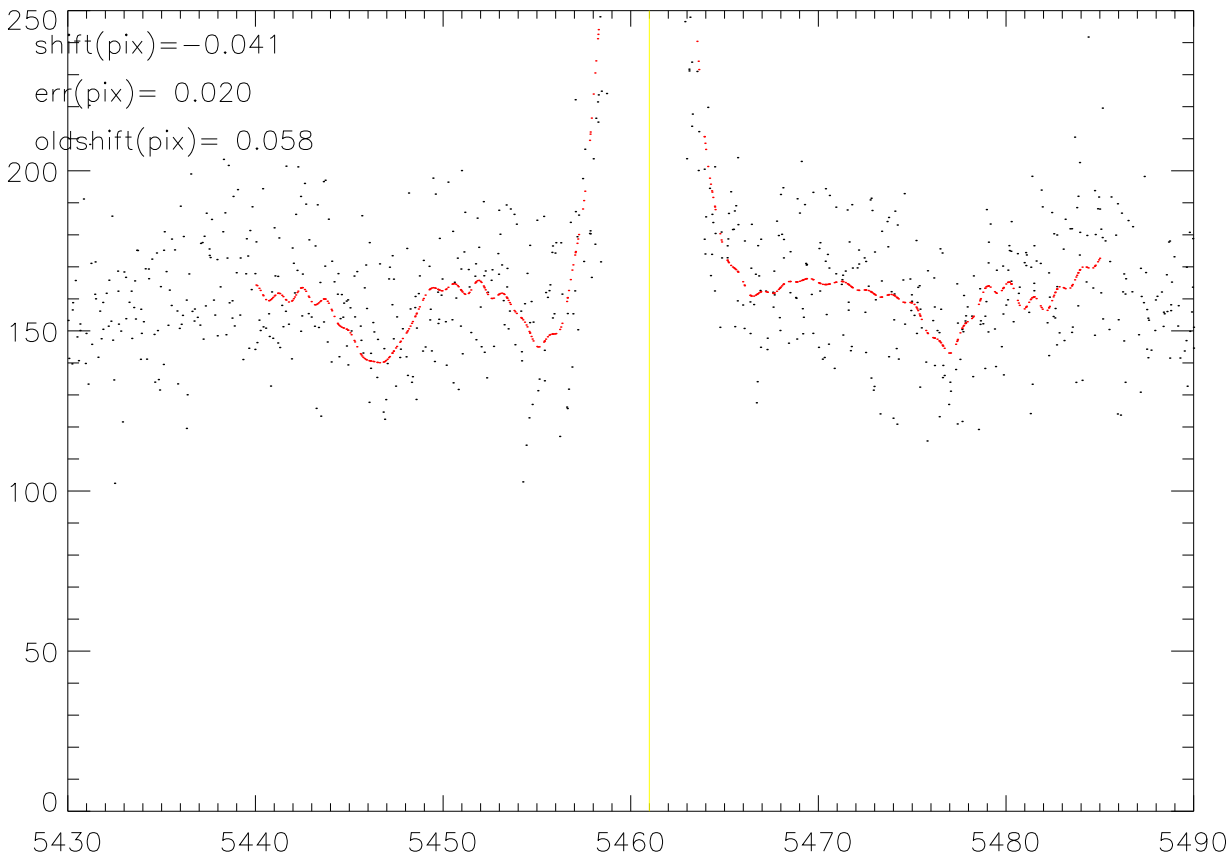

PLATE=0742 MJD=52263 Scattered Light on sdR-b2-00012301.fit
Brightness [electrons/pix]
10
8
6
4
2
0
Error bars denote full range
Min value = 4.875
Max value = 7.854
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 11:10:21 2008

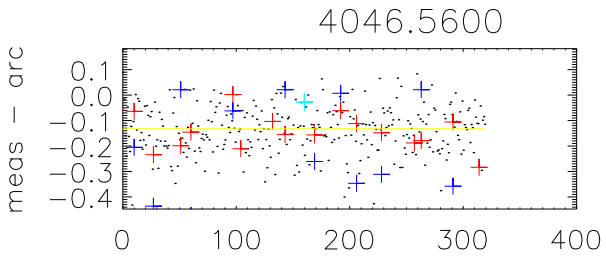

PLATE=0742 MJD=52263 Extraction chi^2 for sdR-b2-00012301.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

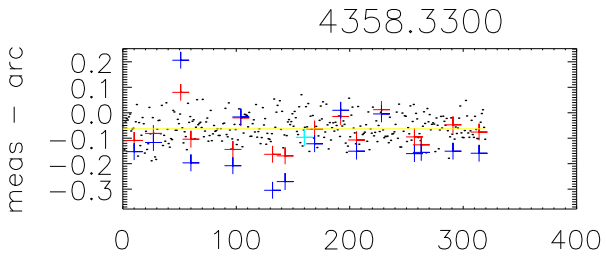

4046.5600
off: −0.39
sig: 0.058
4358.3300
off: −0.12
sig: 0.020
5460.9400
off: 0.06
sig: 0.017
5577.3390
off: 0.03
sig: 0.003
5889.9500
off: 0.13
sig: 0.010
5895.9240
off: 0.10
sig: 0.013

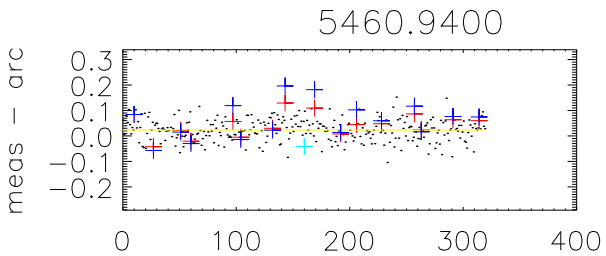

shift(pix)=−0.028
err(pix)= 0.059
oldshift(pix)=−0.389
250
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

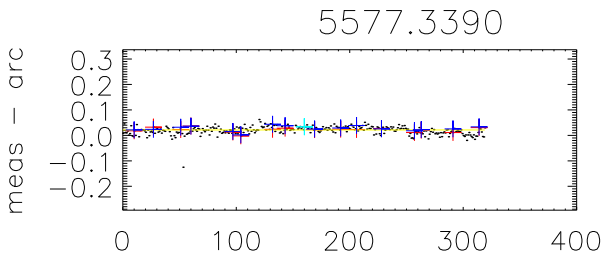

shift(pix)=−0.097
err(pix)= 0.023
oldshift(pix)=−0.121
250
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

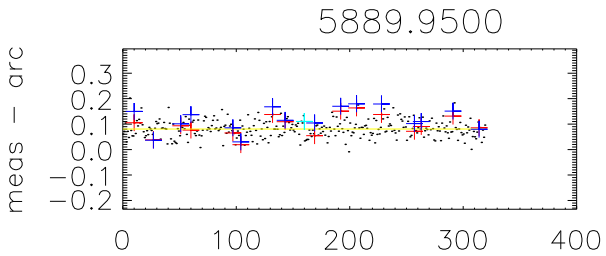

shift(pix)=−0.041
err(pix)= 0.020
oldshift(pix)= 0.058
250
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

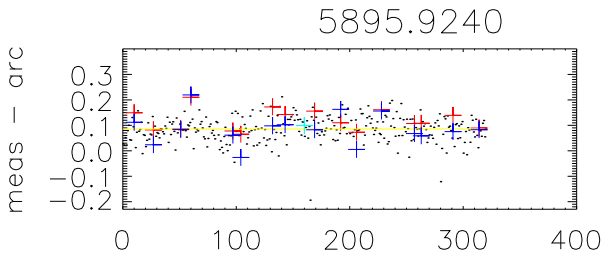

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

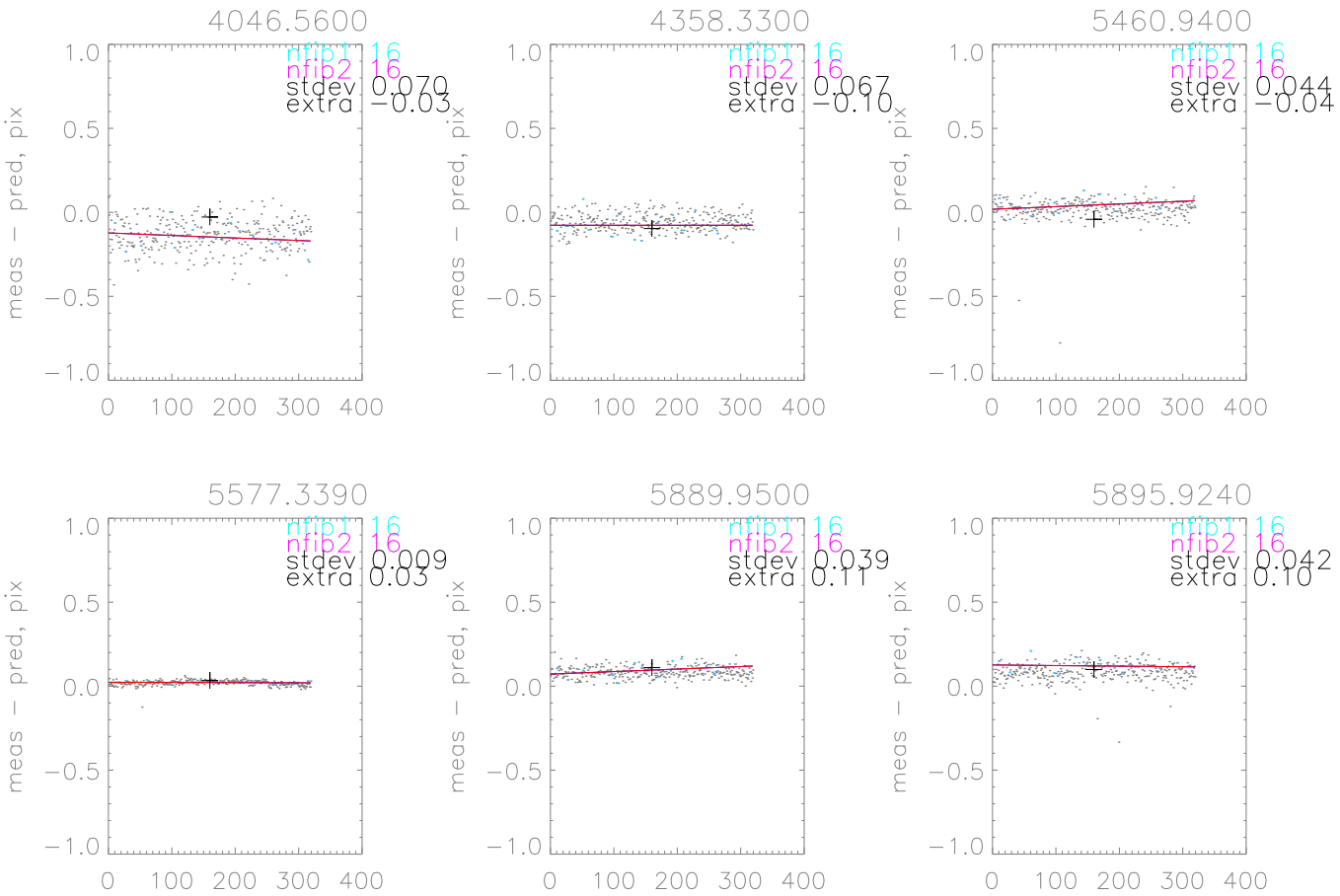

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

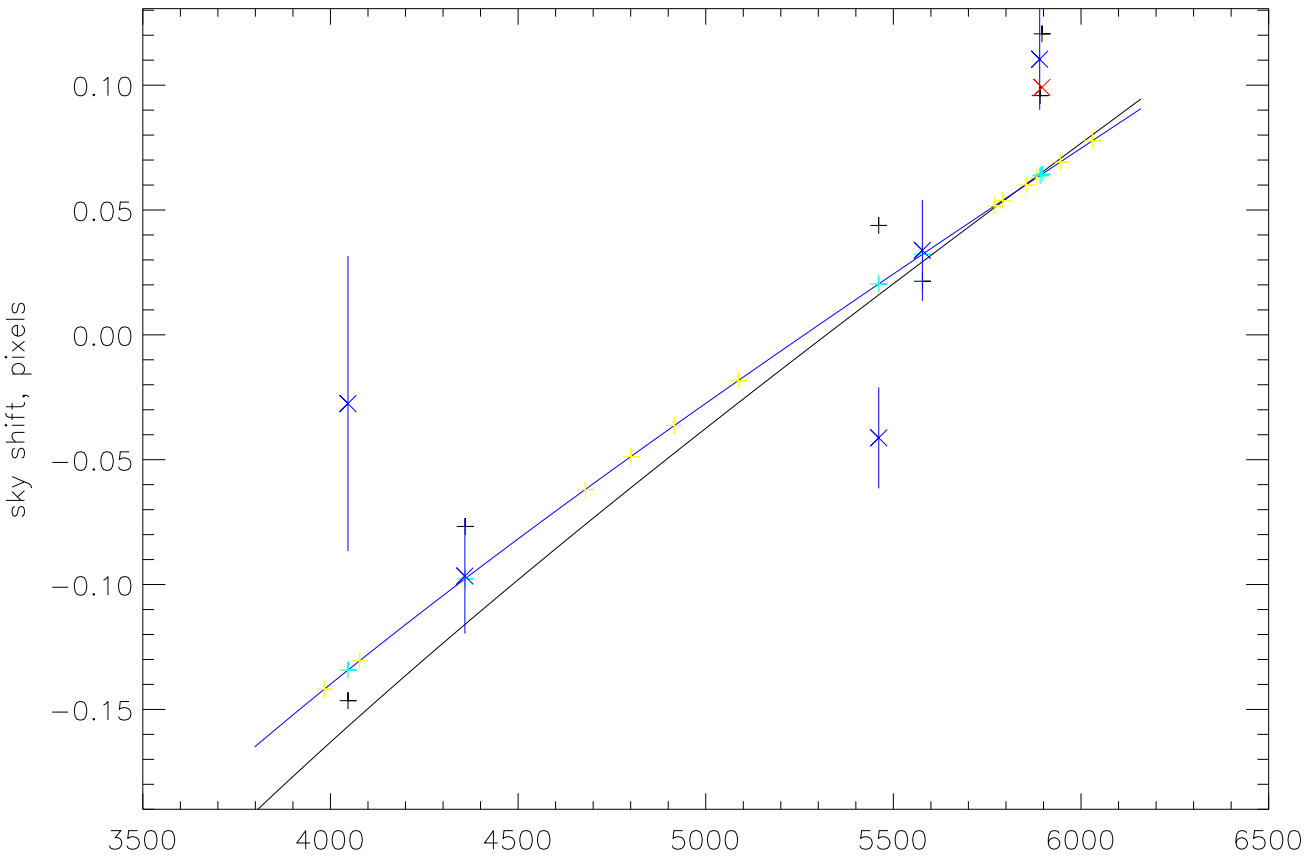

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

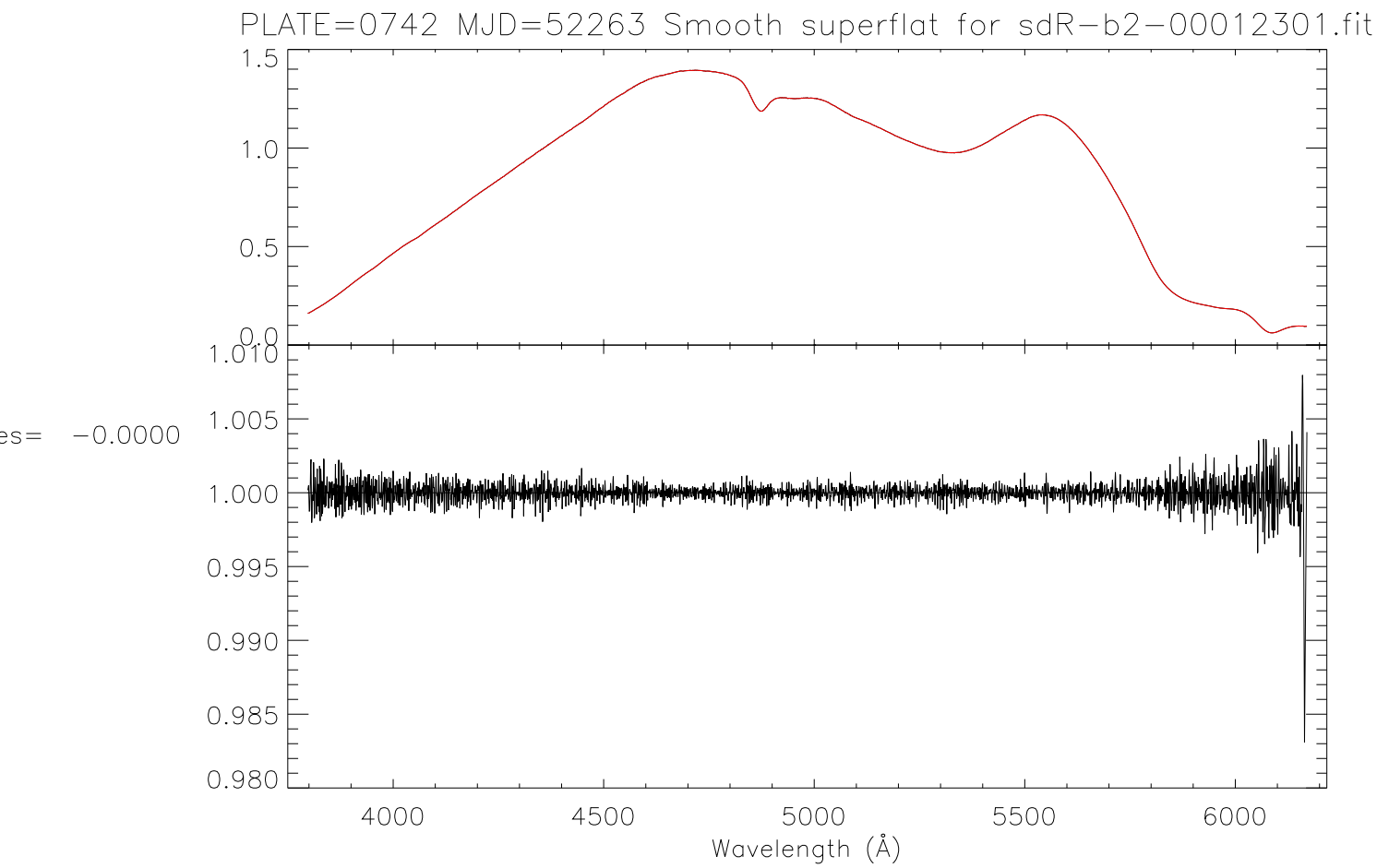

5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

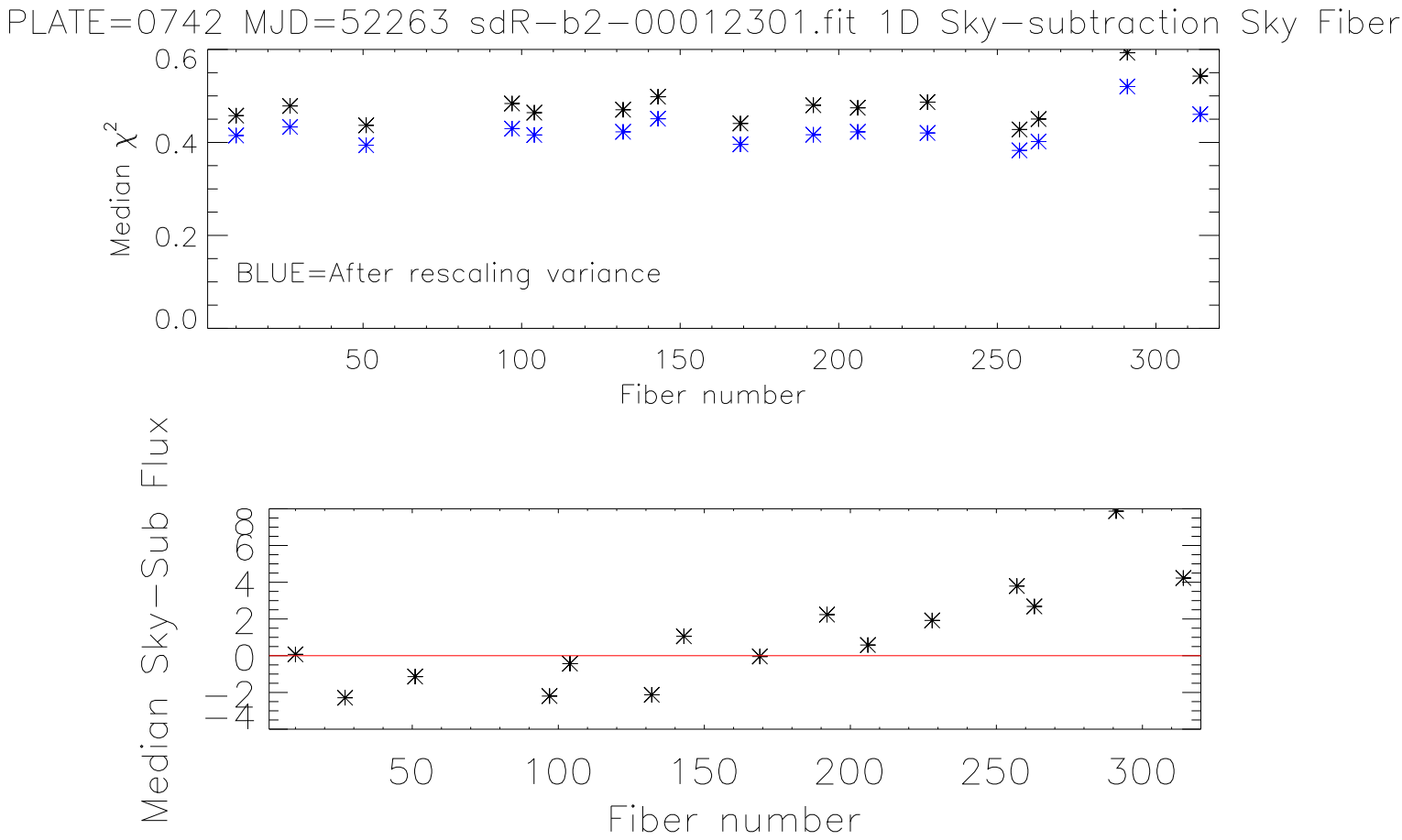

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

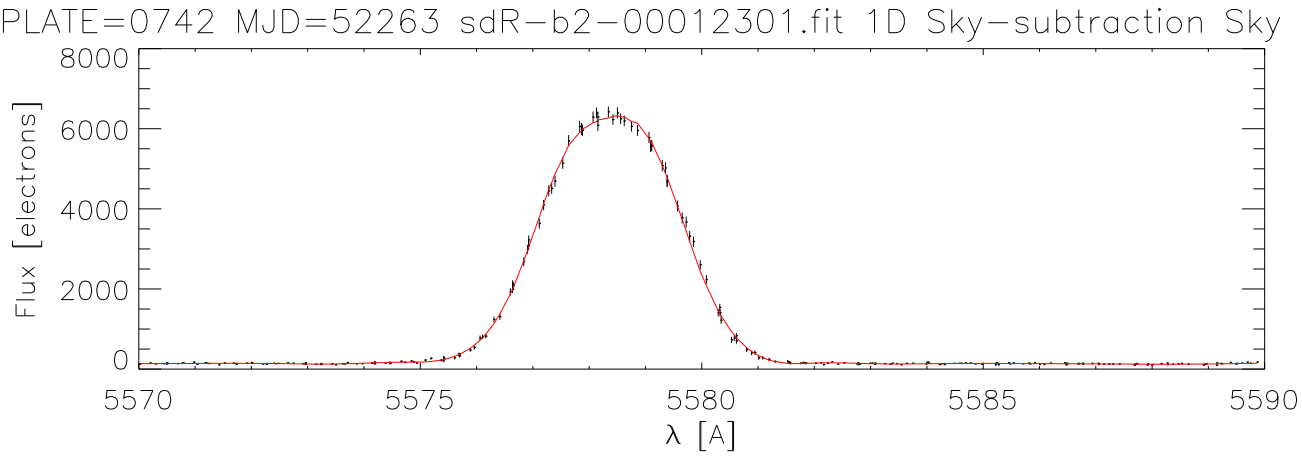

4046.5600
nfib1 16
nfib2 16
stdev 0.070
extra −0.03
4358.3300
nfib1 16
nfib2 16
stdev 0.067
extra −0.10
5460.9400
nfib1 16
nfib2 16
stdev 0.044
extra −0.04
5577.3390
nfib1 16
nfib2 16
stdev 0.009
extra 0.03
5889.9500
nfib1 16
nfib2 16
stdev 0.039
extra 0.11
5895.9240
nfib1 16
nfib2 16
stdev 0.042
extra 0.10
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

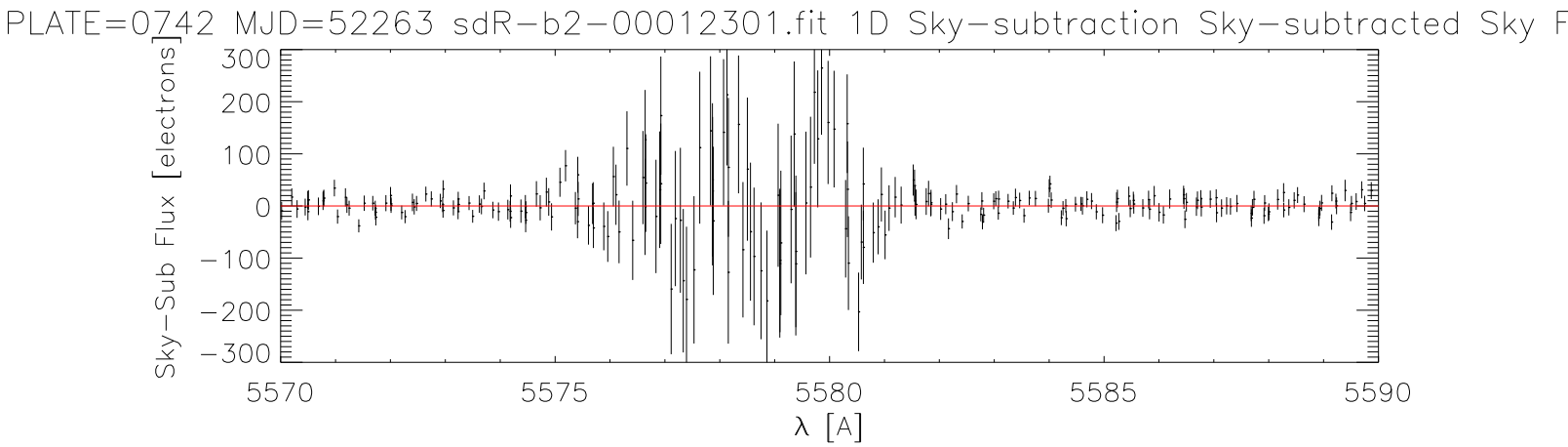

sky shift, pixels
0.10
0.05
0.00
−0.05
−0.10
−0.15
3500
4000
4500
5000
5500
6000
6500

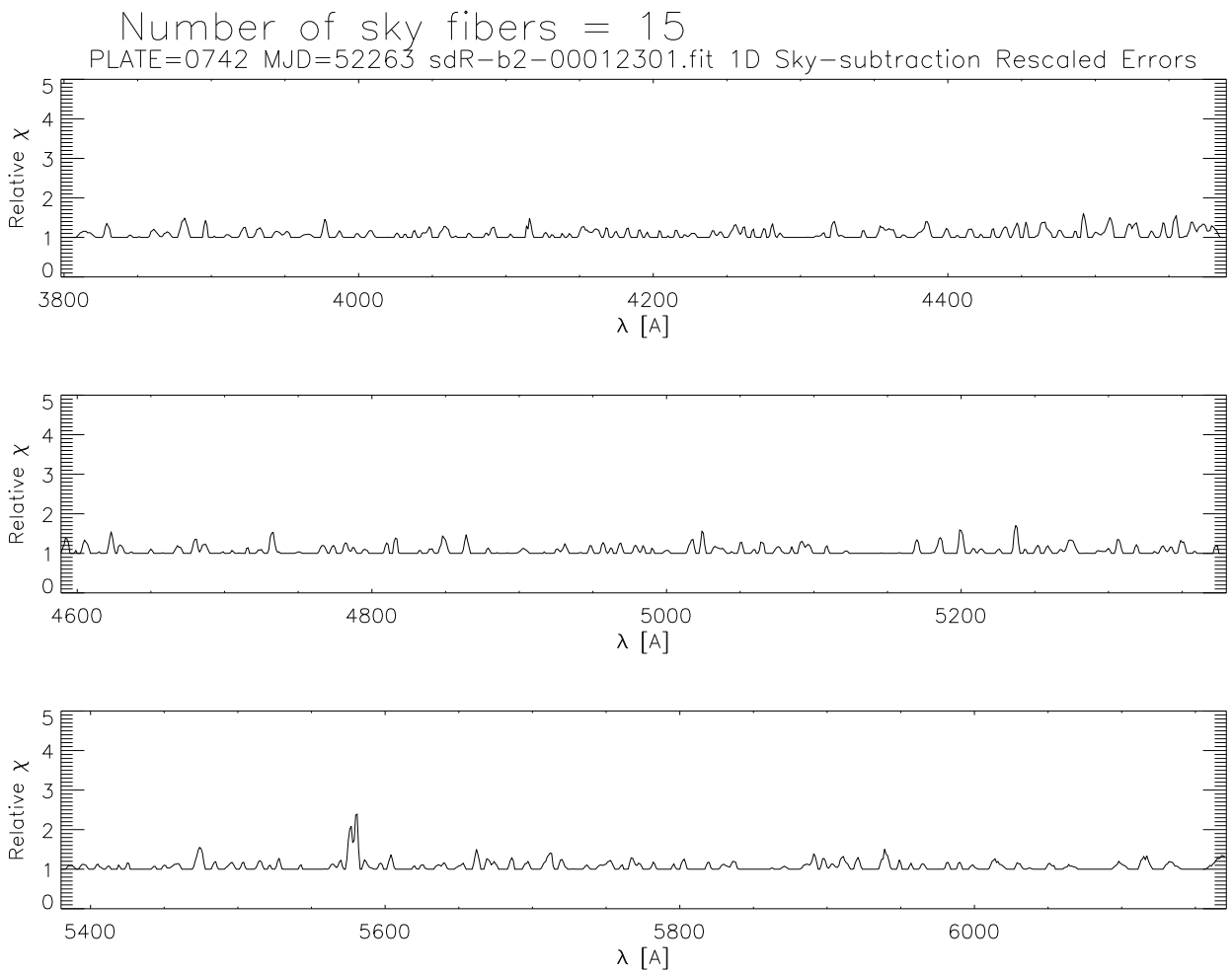

PLATE=0742 MJD=52263 Smooth superflat for sdR-b2-00012301.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
0.980
4000
4500
5000
5500
6000
Wavelength (Å)

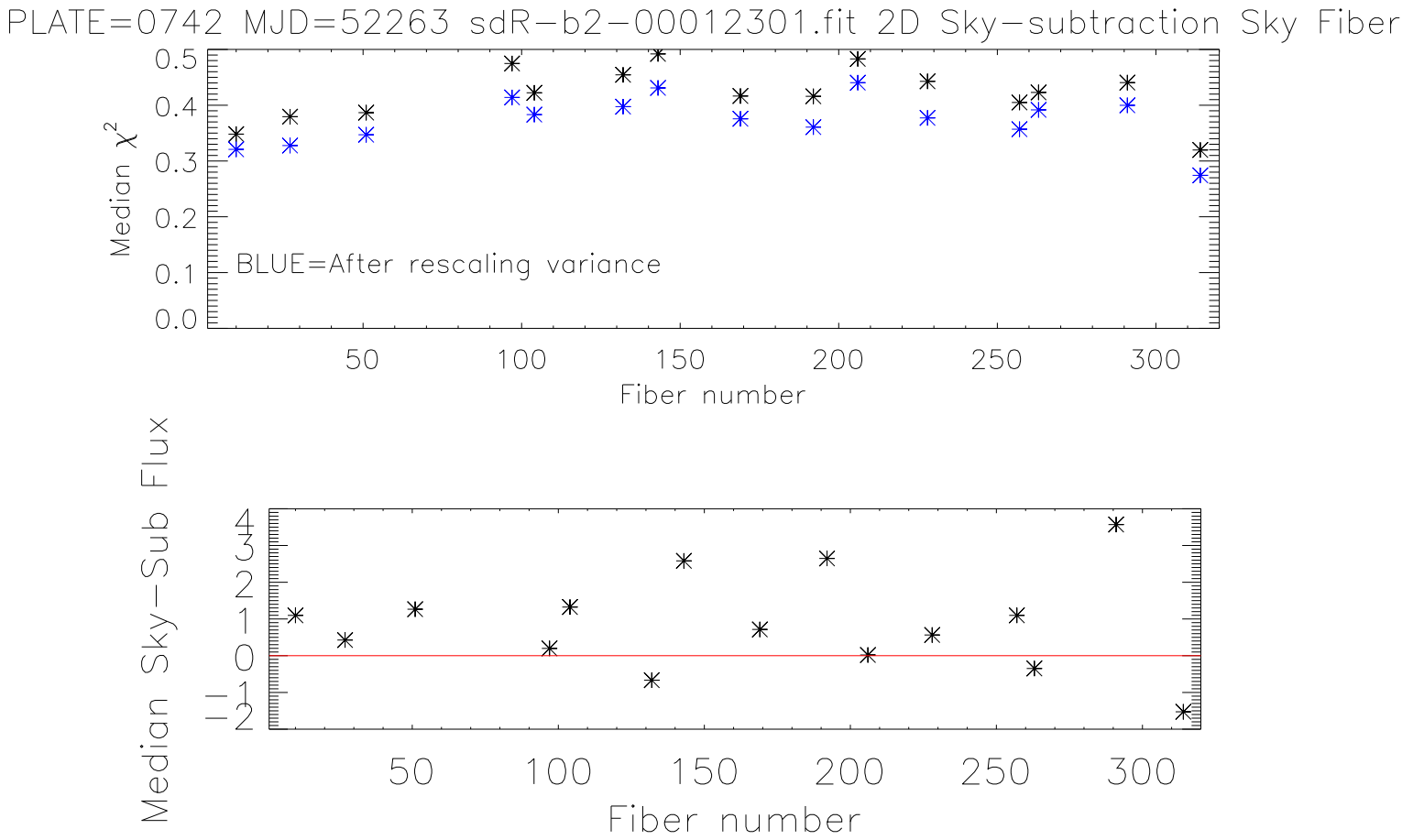
es= −0.0000

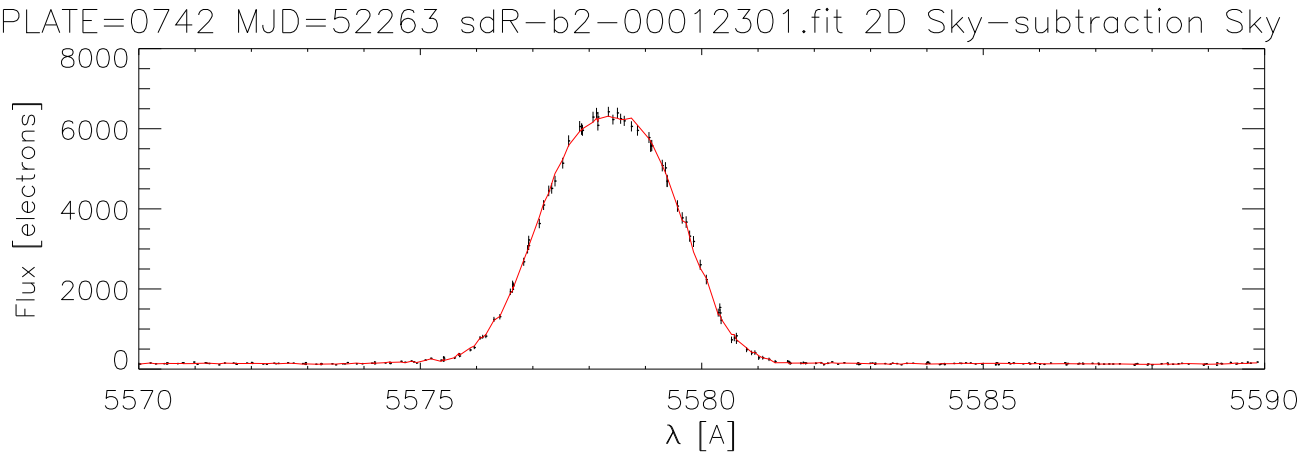

PLATE=0742 MJD=52263 sdR-b2-00012301.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

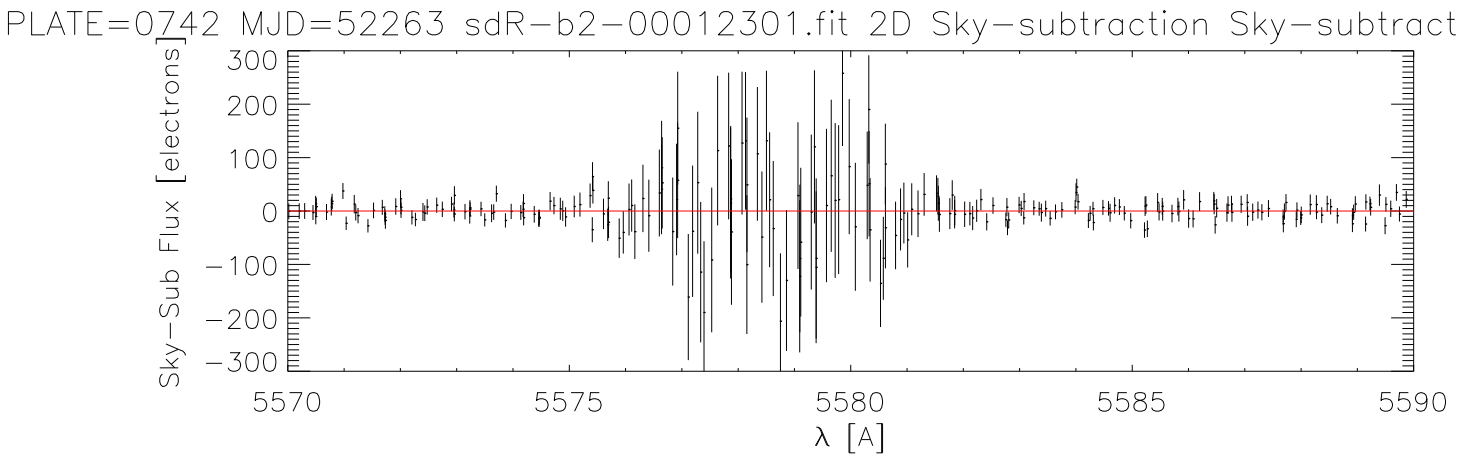

PLATE=0742 MJD=52263 sdR-b2-00012301.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

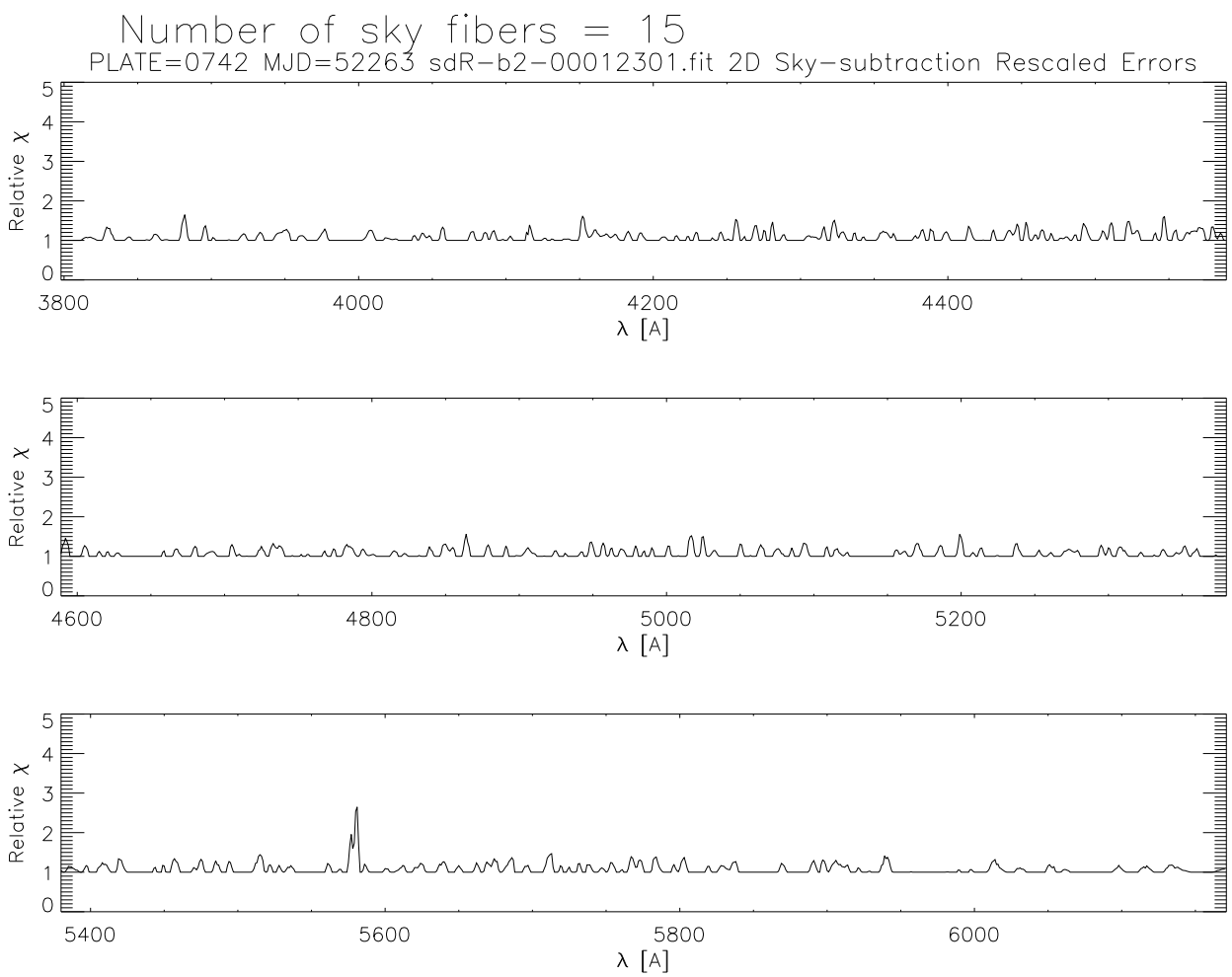

PLATE=0742 MJD=52263 sdR-b2-00012301.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

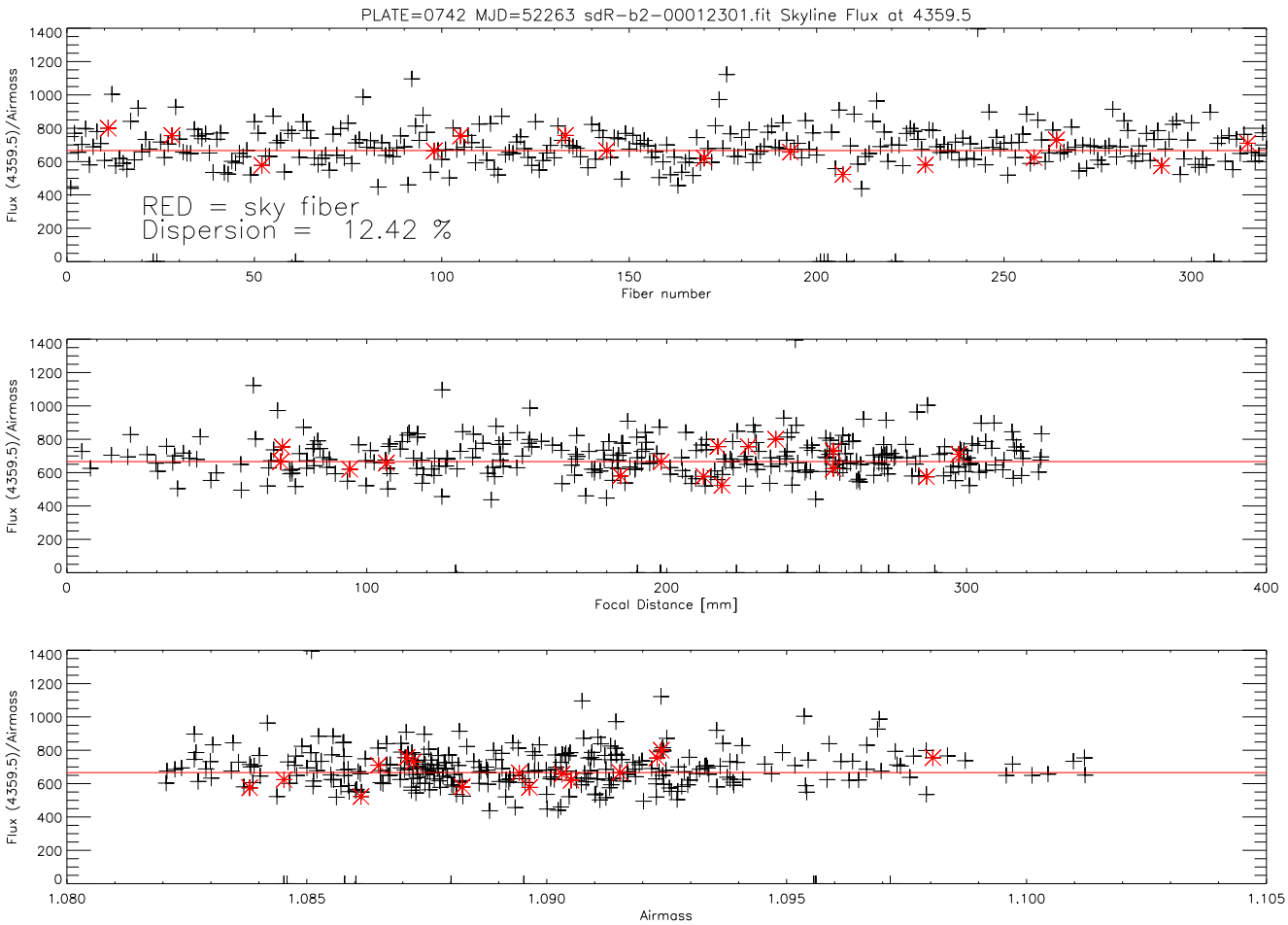

Number of sky fibers = 15
PLATE=0742 MJD=52263 sdR-b2-00012301.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

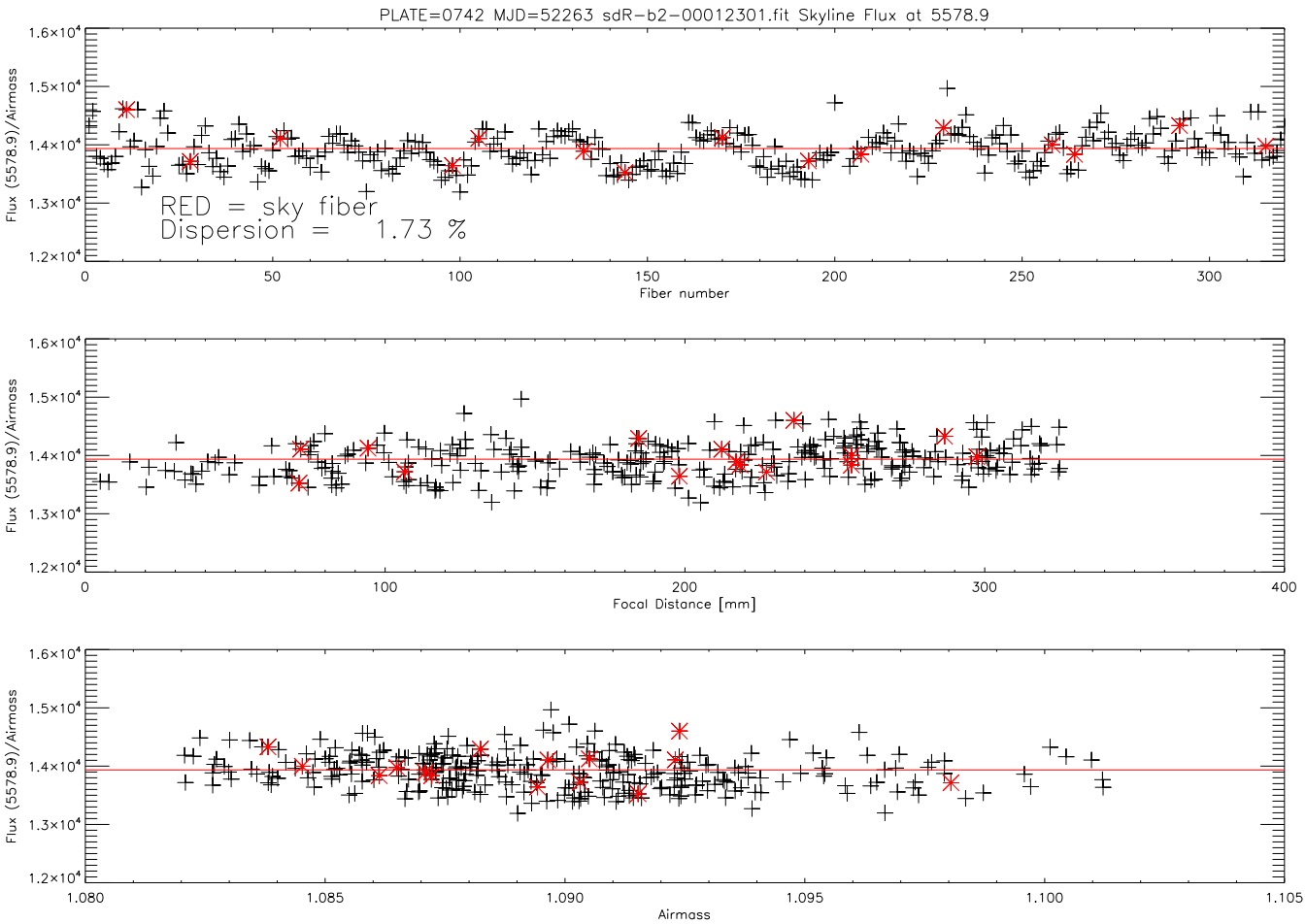

PLATE=0742 MJD=52263 sdR-b2-00012301.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
4
50
100
150
200
250
300
Fiber number

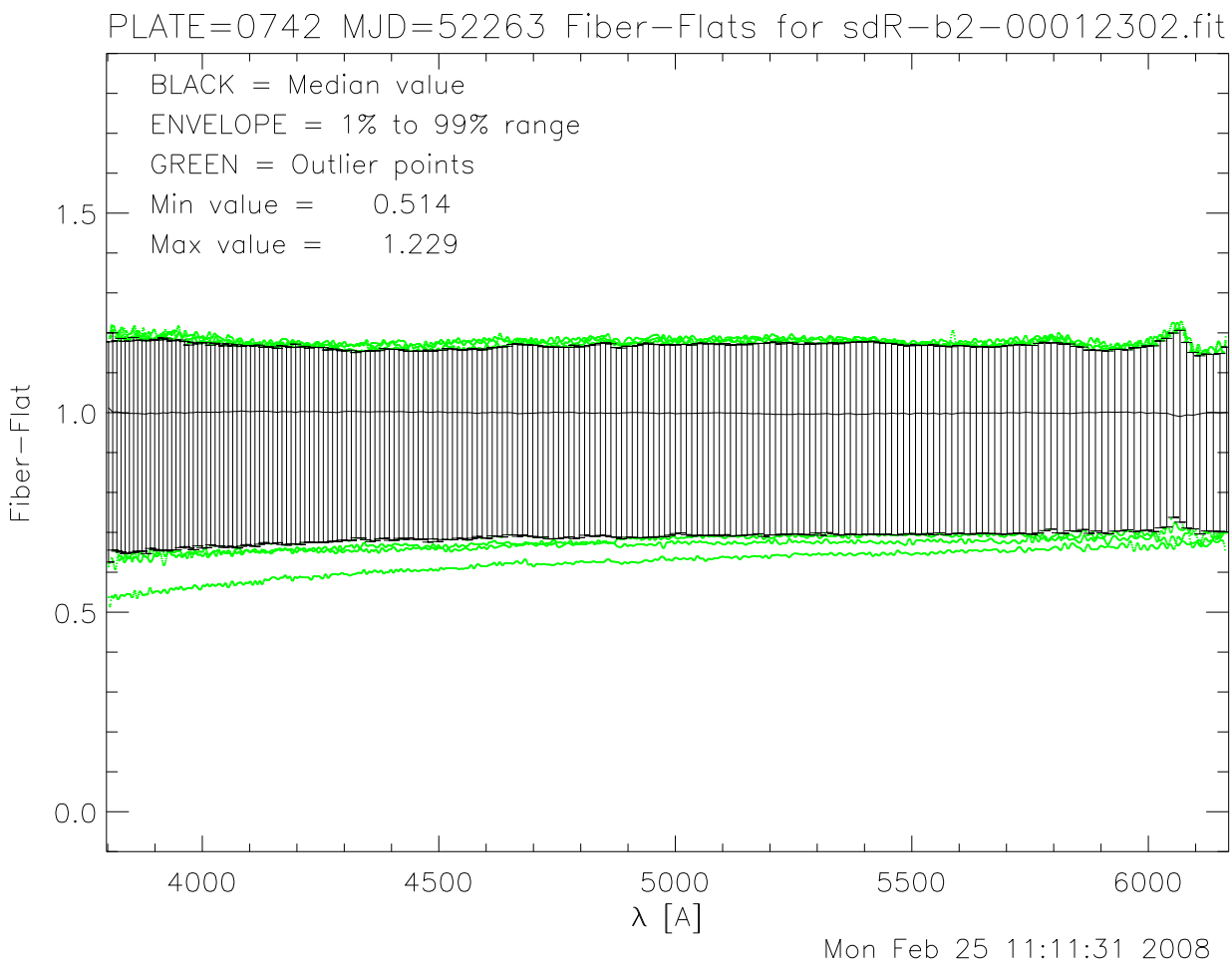

PLATE=0742 MJD=52263 sdR-b2-00012301.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

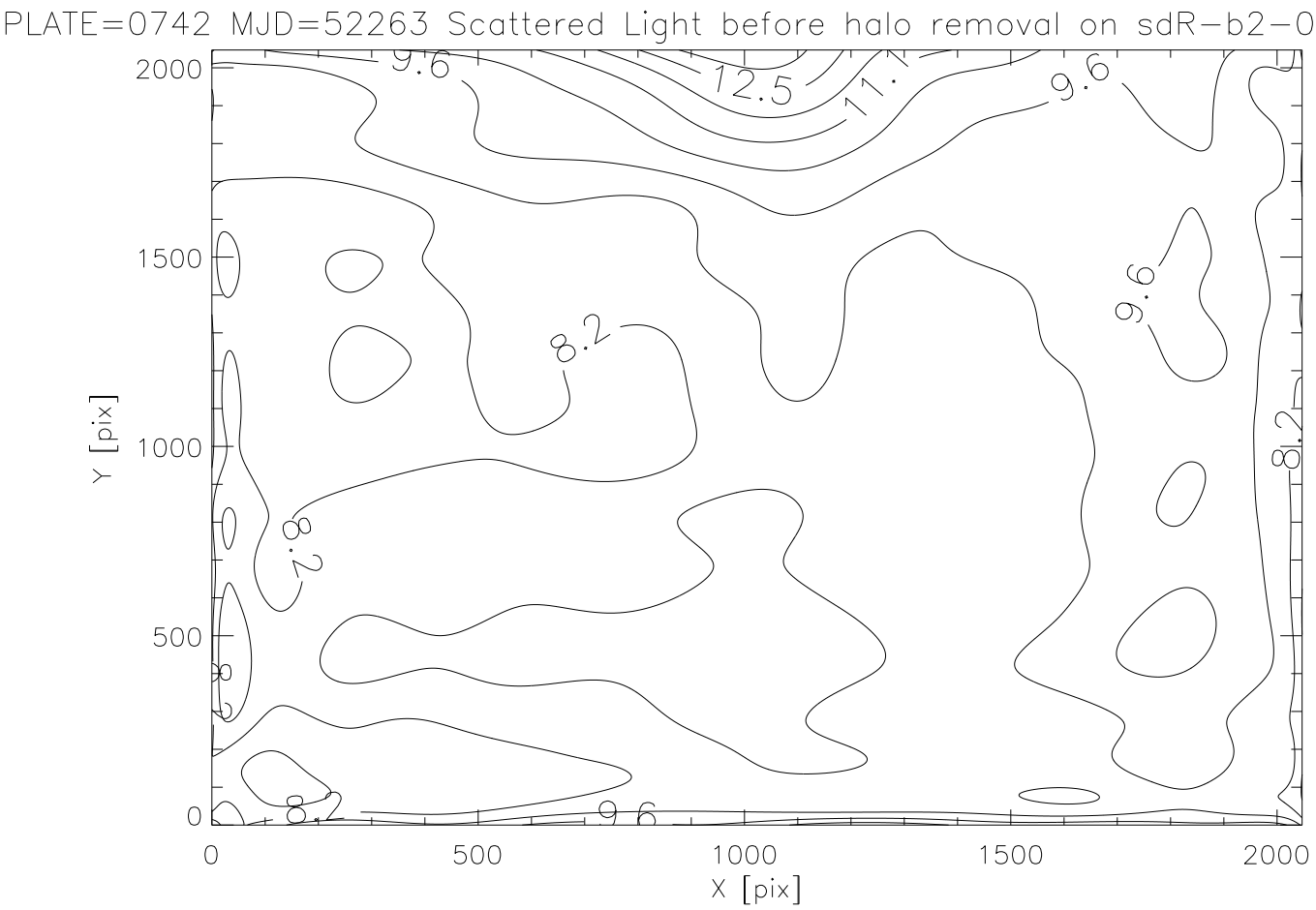

PLATE=0742 MJD=52263 sdR-b2-00012301.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

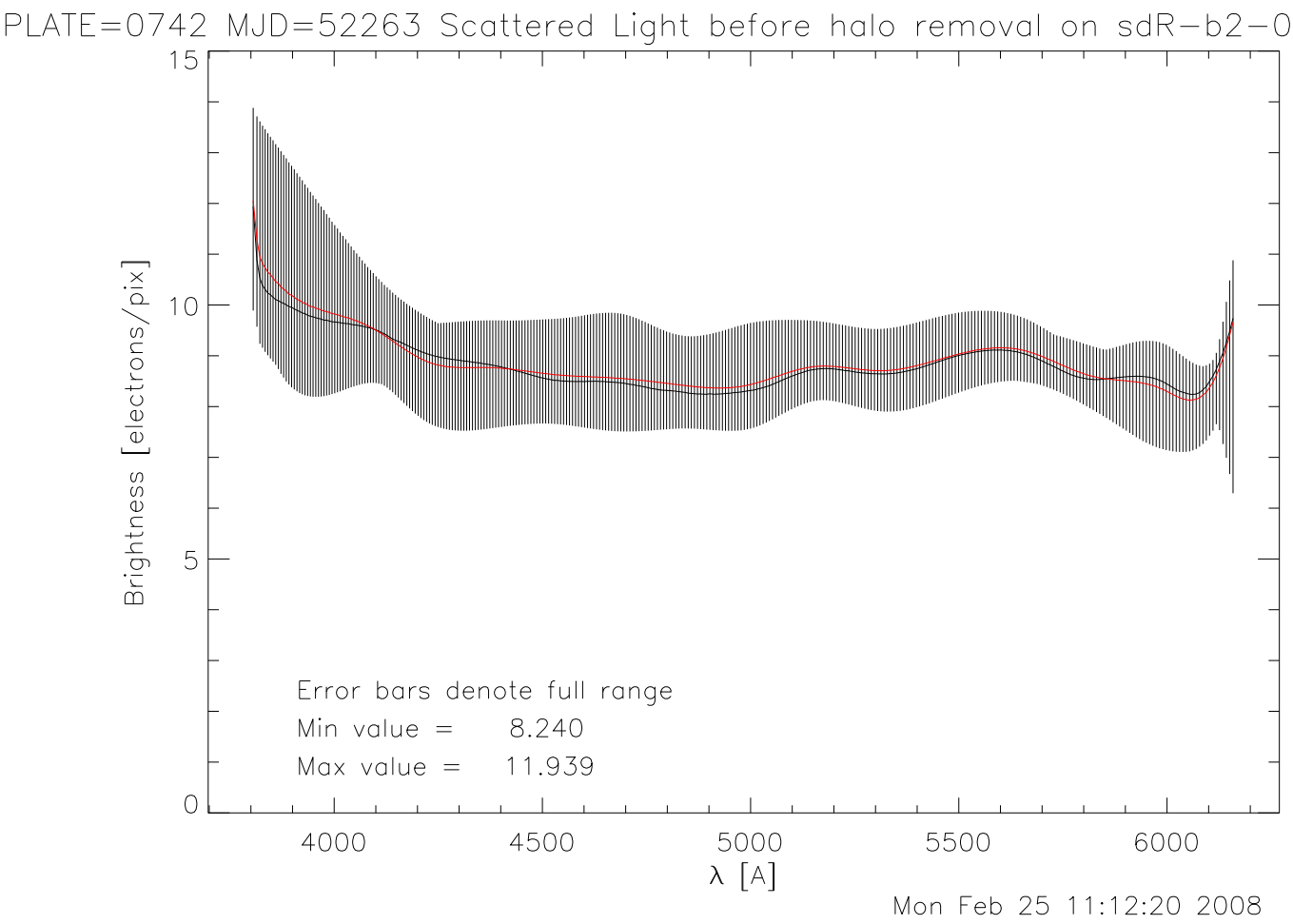

Number of sky fibers = 15
PLATE=0742 MJD=52263 sdR-b2-00012301.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

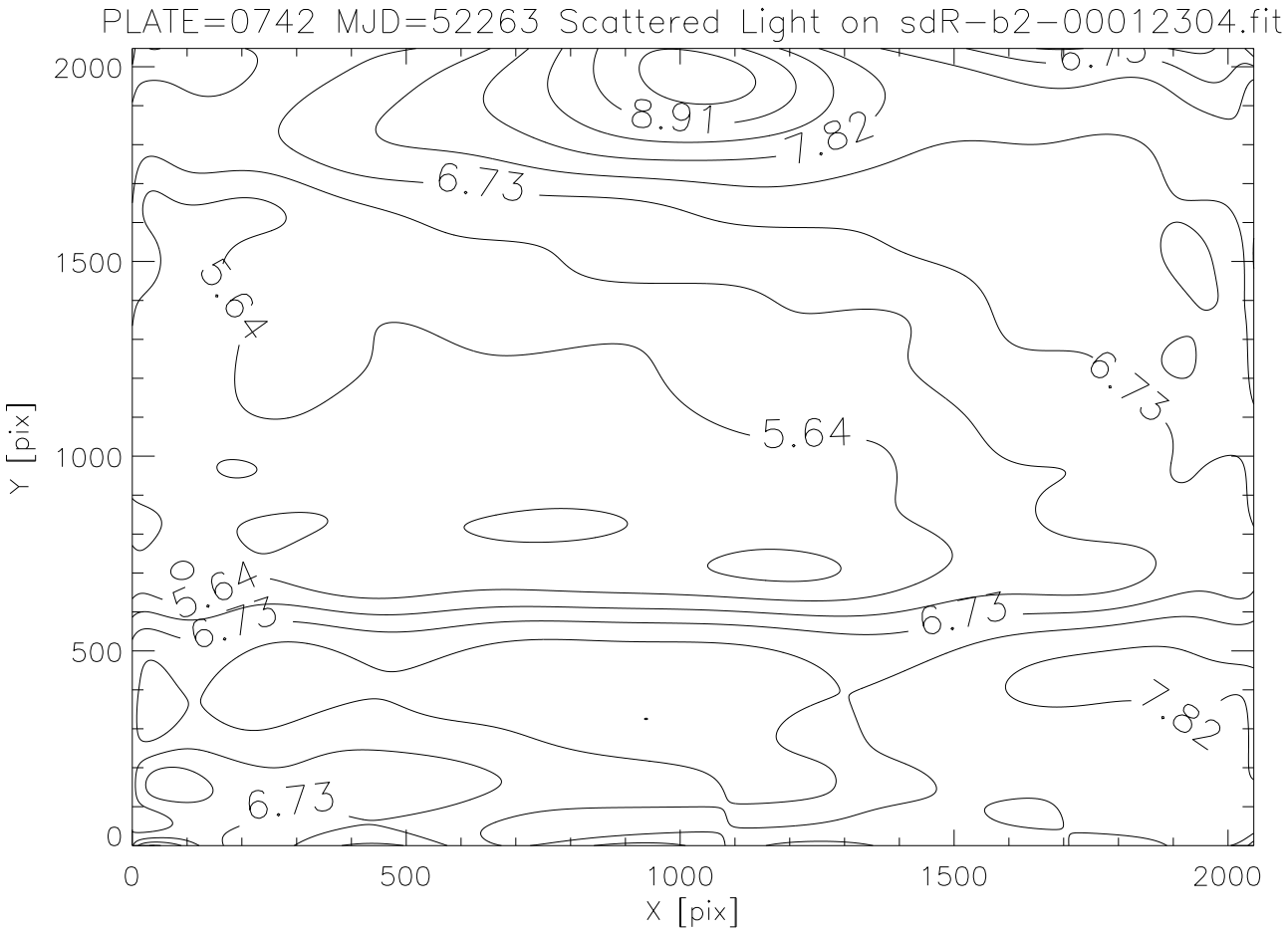

PLATE=0742 MJD=52263 sdR-b2-00012301.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 12.42 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

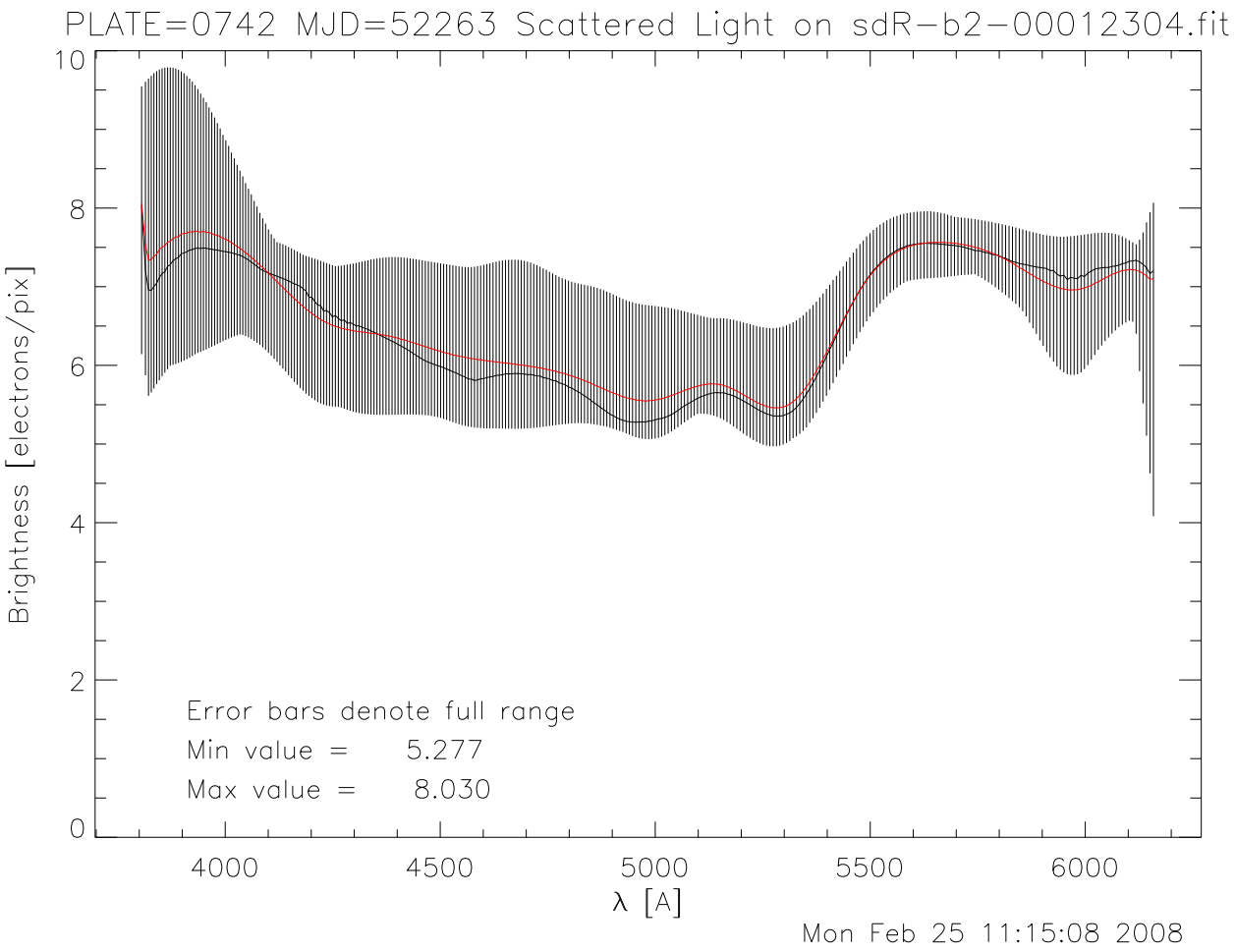

PLATE=0742 MJD=52263 sdR-b2-00012301.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
1.6×10^4
1.5×10^4
1.4×10^4
1.3×10^4
1.2×10^4
RED = sky fiber
Dispersion = 1.73 %
0
50
100
150
200
250
300
Fiber number
Flux (5578.9)/Airmass
1.6×10^4
1.5×10^4
1.4×10^4
1.3×10^4
1.2×10^4
0
100
200
300
400
Focal Distance [mm]
Flux (5578.9)/Airmass
1.6×10^4
1.5×10^4
1.4×10^4
1.3×10^4
1.2×10^4
1.080
1.085
1.090
1.095
1.100
1.105
Airmass

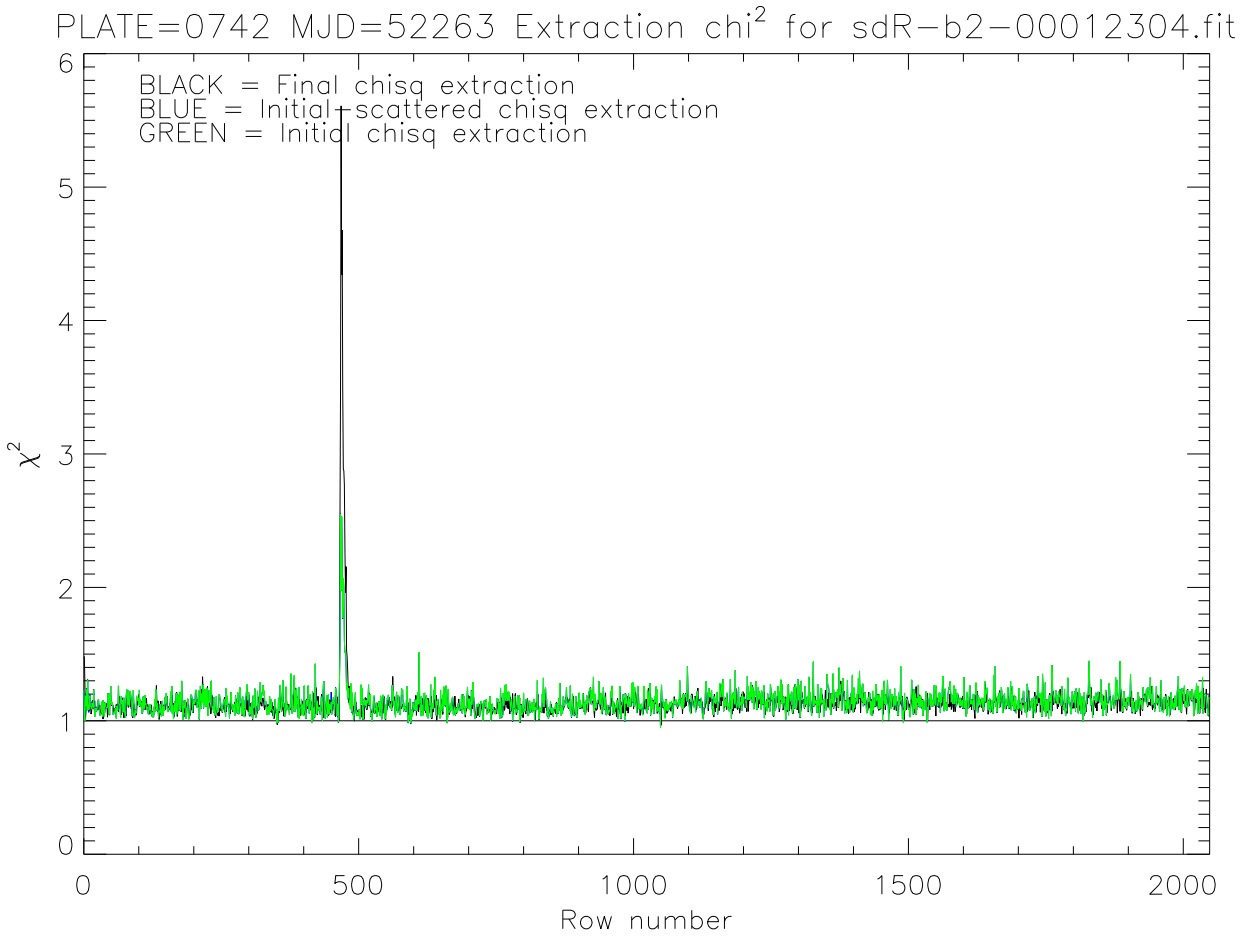

PLATE=0742 MJD=52263 Fiber-Flats for sdR-b2-00012302.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.514
Max value = 1.229
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 11:11:31 2008

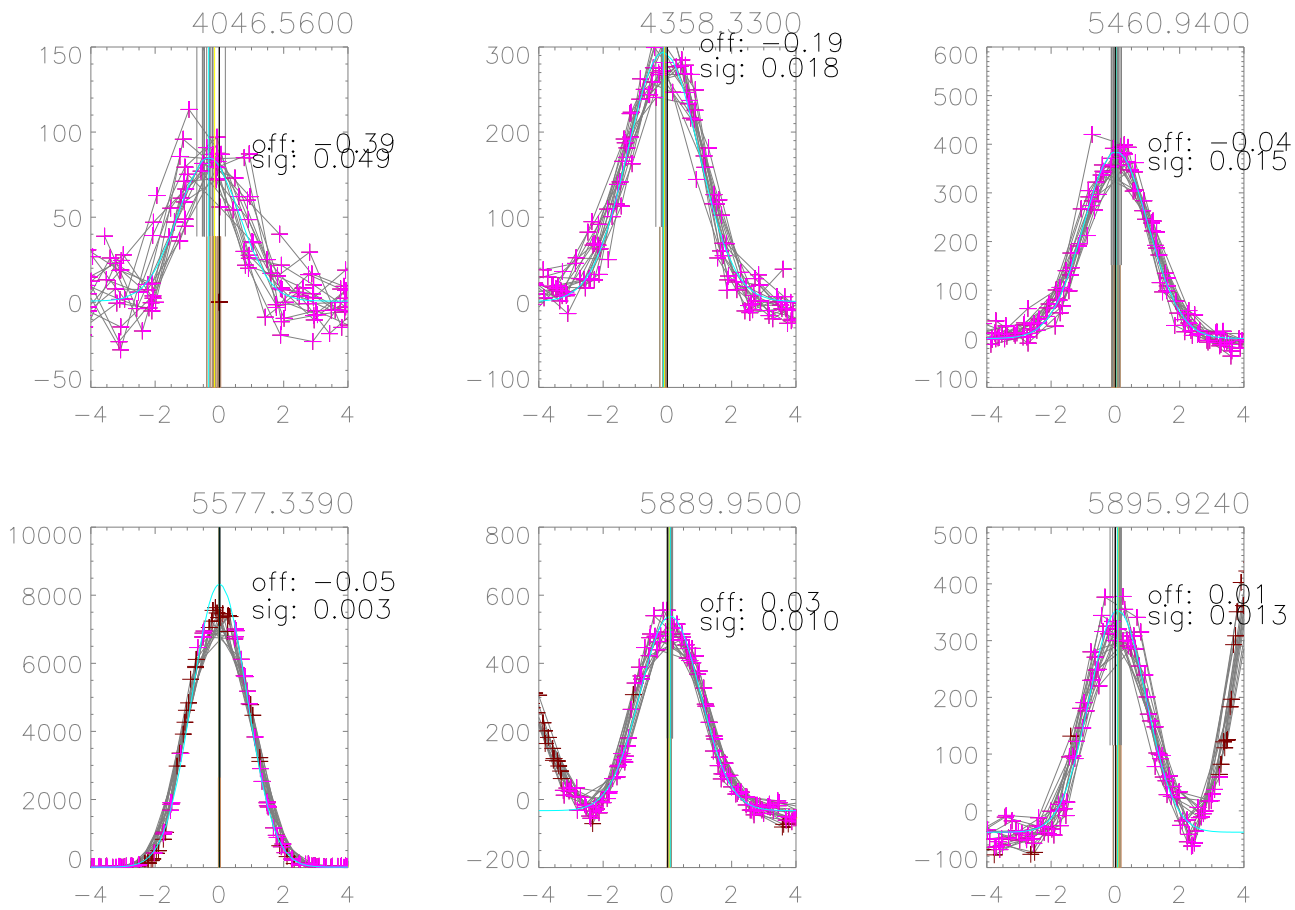

PLATE=0742 MJD=52263 Scattered Light before halo removal on sdR−b2−00012304.f
9.6
12.5
11.
9.6
9.6
8.2
8.2
8.2
8.2
9.6
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

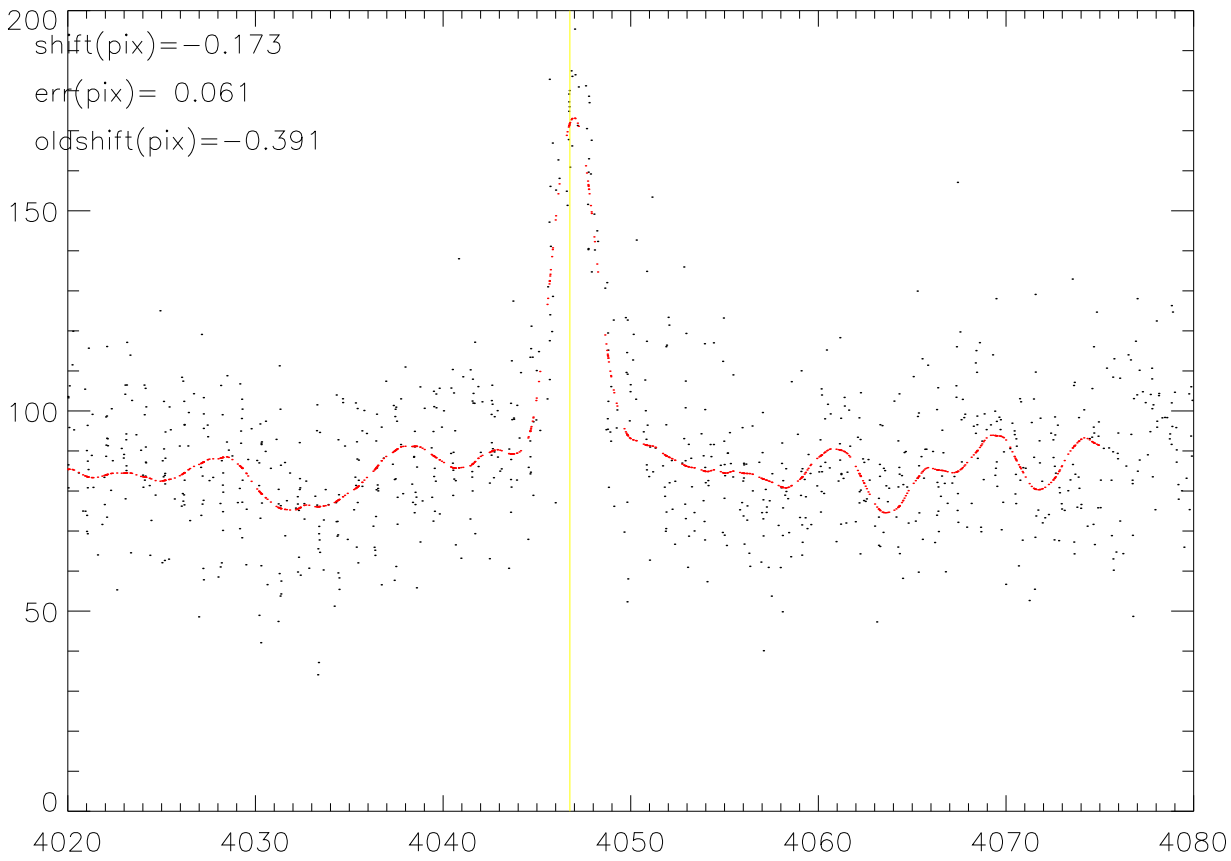

PLATE=0742 MJD=52263 Scattered Light before halo removal on sdR-b2-00012304.f
Brightness [electrons/pix]
15
10
5
0
Error bars denote full range
Min value = 8.240
Max value = 11.939
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 11:12:20 2008

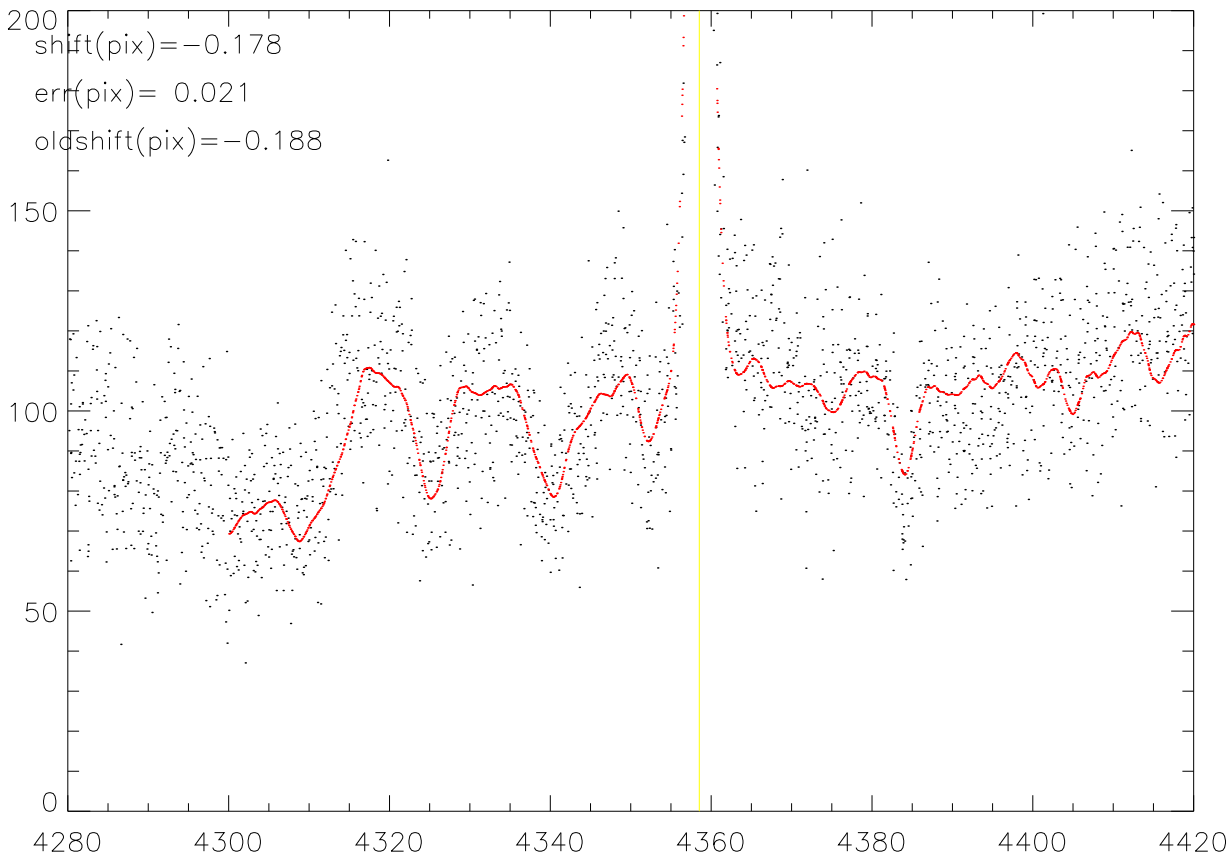

PLATE=0742 MJD=52263 Scattered Light on sdR-b2-00012304.fit
8.91
1.82
6.73
5.64
5.64
6.73
5.64
6.73
6.73
7.82
6.73
Y [pix]
X [pix]
0
500
1000
1500
2000

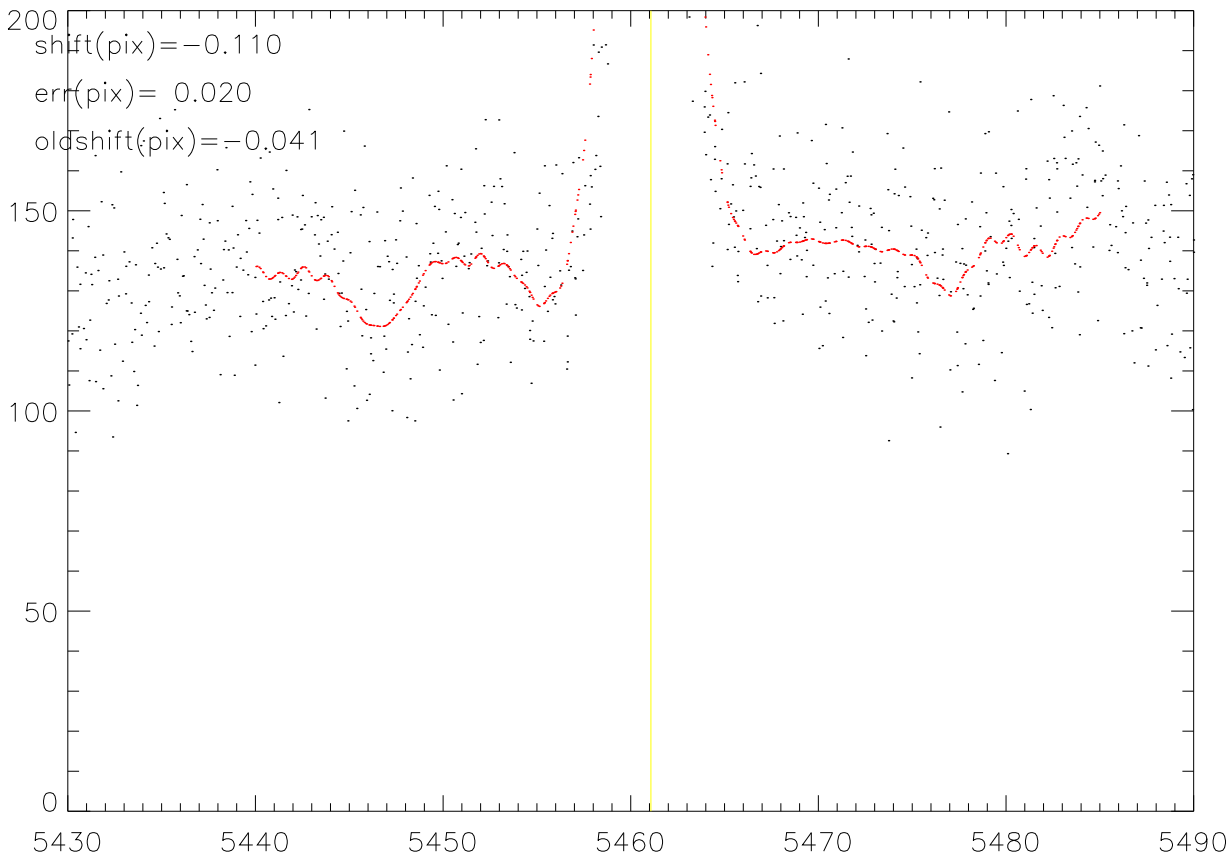

PLATE=0742 MJD=52263 Scattered Light on sdR-b2-00012304.fit
Brightness [electrons/pix]
10
8
6
4
2
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 5.277
Max value = 8.030
Mon Feb 25 11:15:08 2008

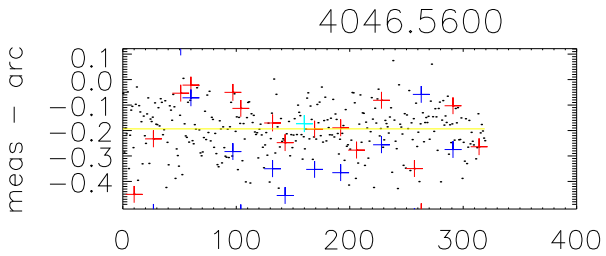

PLATE=0742 MJD=52263 Extraction chi^2 for sdR-b2-00012304.fit
BLACK = Final chisq extraction
BLUE = Initial+scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

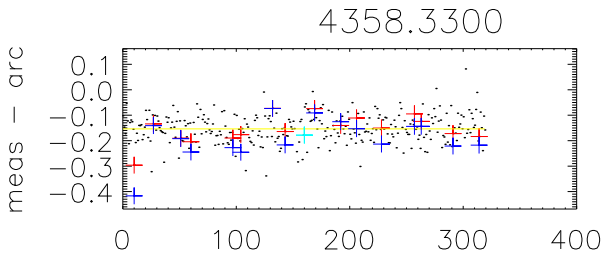

4046.5600
off: −0.39
sig: 0.049
4358.3300
off: −0.19
sig: 0.018
5460.9400
off: −0.04
sig: 0.015
5577.3390
off: −0.05
sig: 0.003
5889.9500
off: 0.03
sig: 0.010
5895.9240
off: 0.01
sig: 0.013

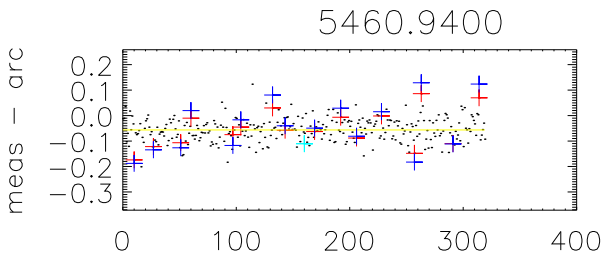

shift(pix)=−0.173
err(pix)= 0.061
oldshift(pix)=−0.391
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

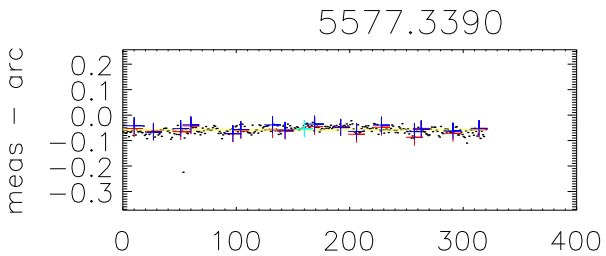

shift(pix)=−0.178
err(pix)= 0.021
oldshift(pix)=−0.188
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

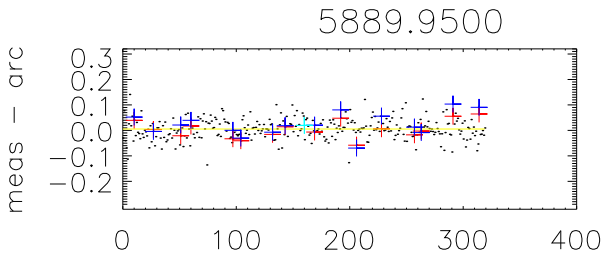

shift(pix)=−0.110
err(pix)= 0.020
oldshift(pix)=−0.041
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

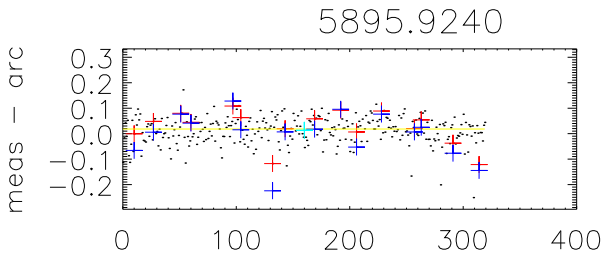

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

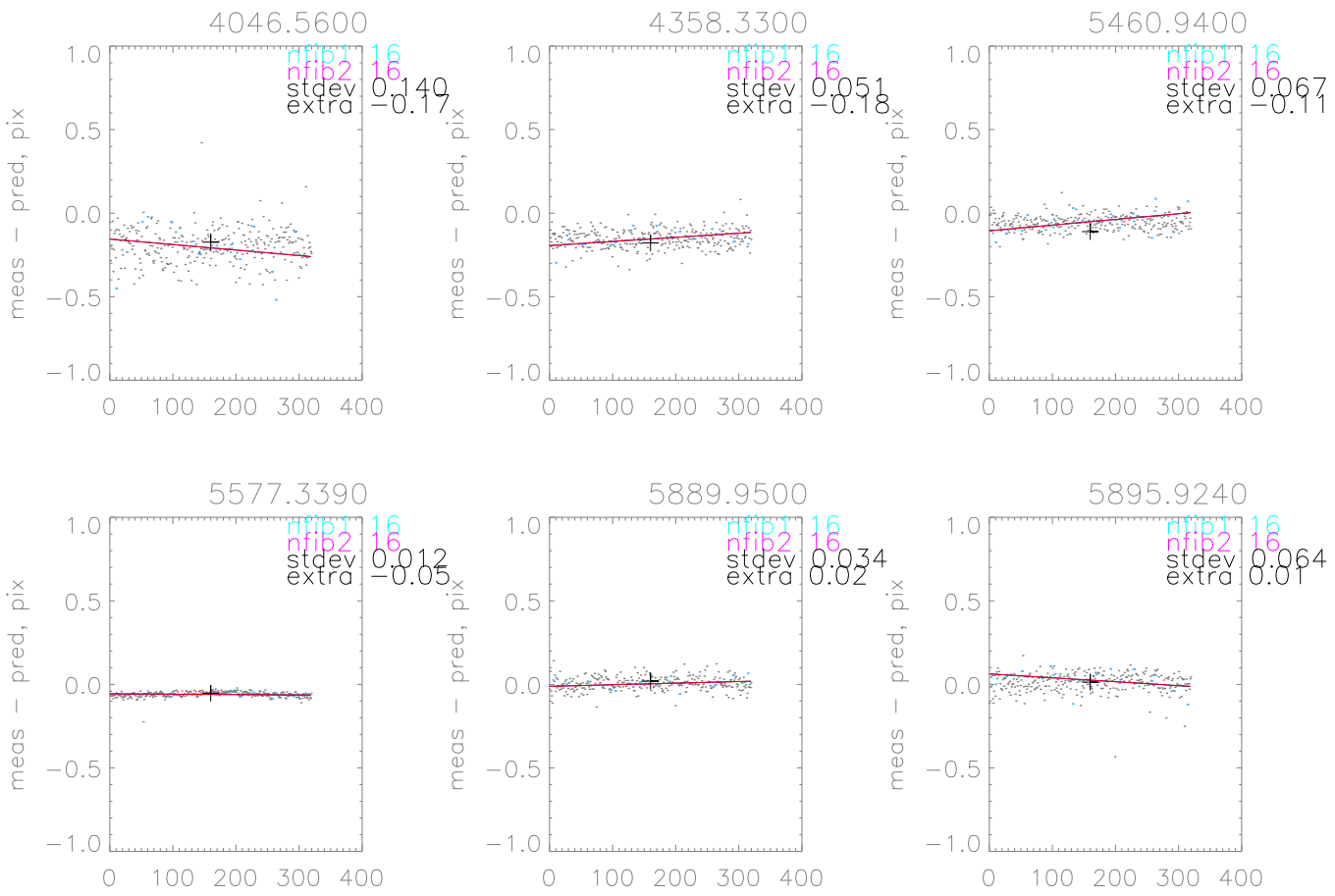

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

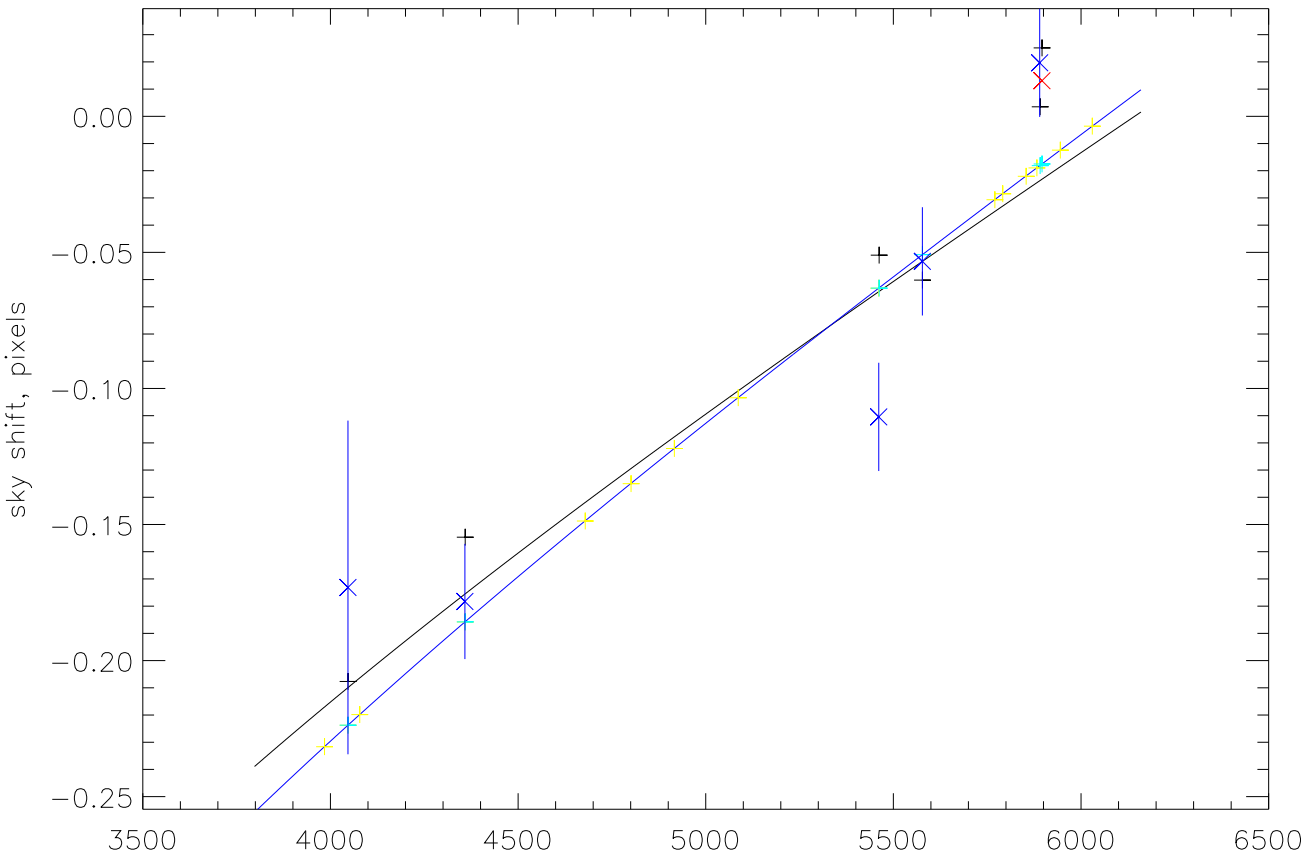

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

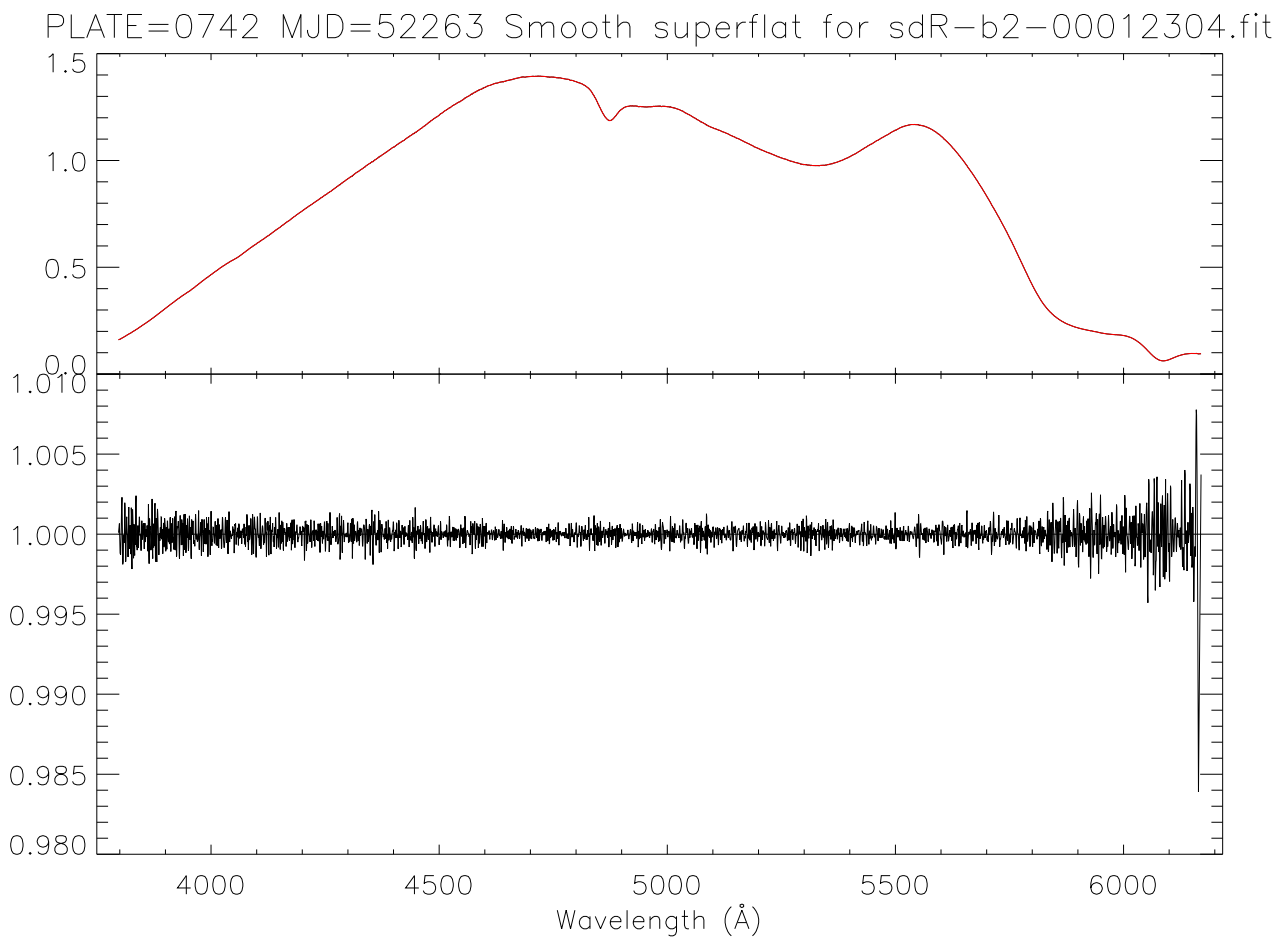

5889.9500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

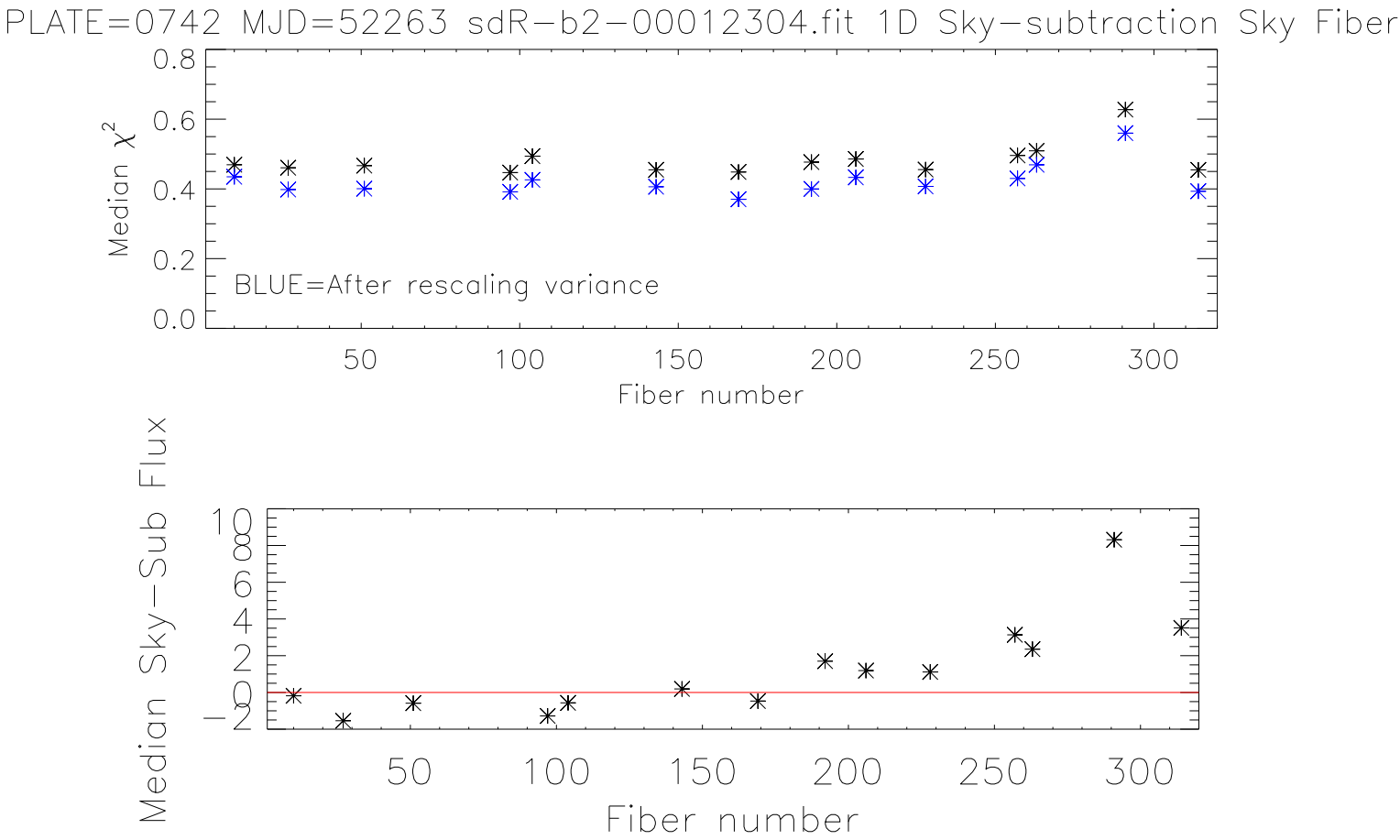

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

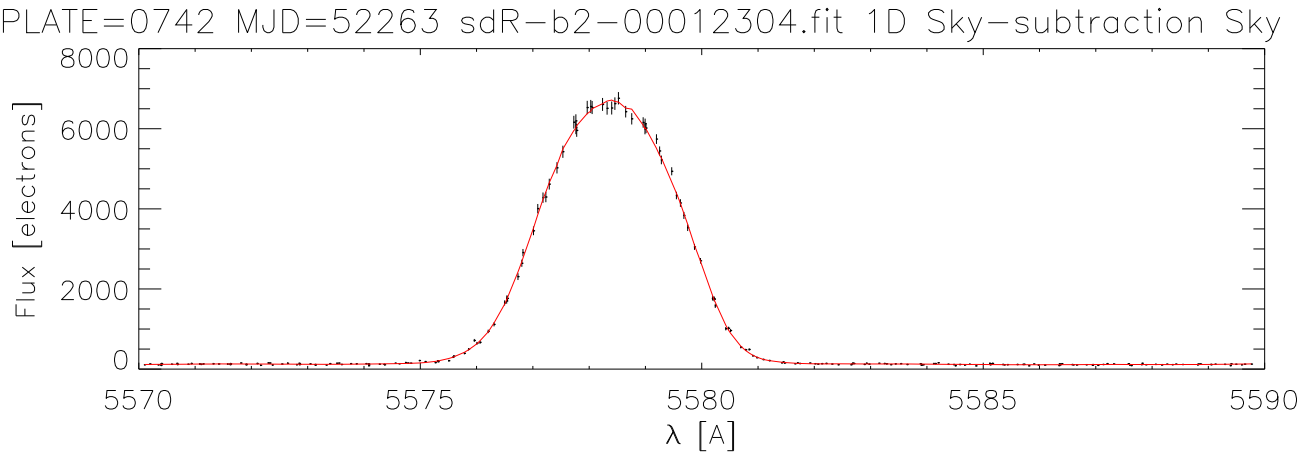

4046.5600
nfib1 16
nfib2 16
stdev 0.140
extra −0.17
4358.3300
nfib1 16
nfib2 16
stdev 0.051
extra −0.18
5460.9400
nfib1 16
nfib2 16
stdev 0.067
extra −0.11
5577.3390
nfib1 16
nfib2 16
stdev 0.012
extra −0.05
5889.9500
nfib1 16
nfib2 16
stdev 0.034
extra 0.02
5895.9240
nfib1 16
nfib2 16
stdev 0.064
extra 0.01
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

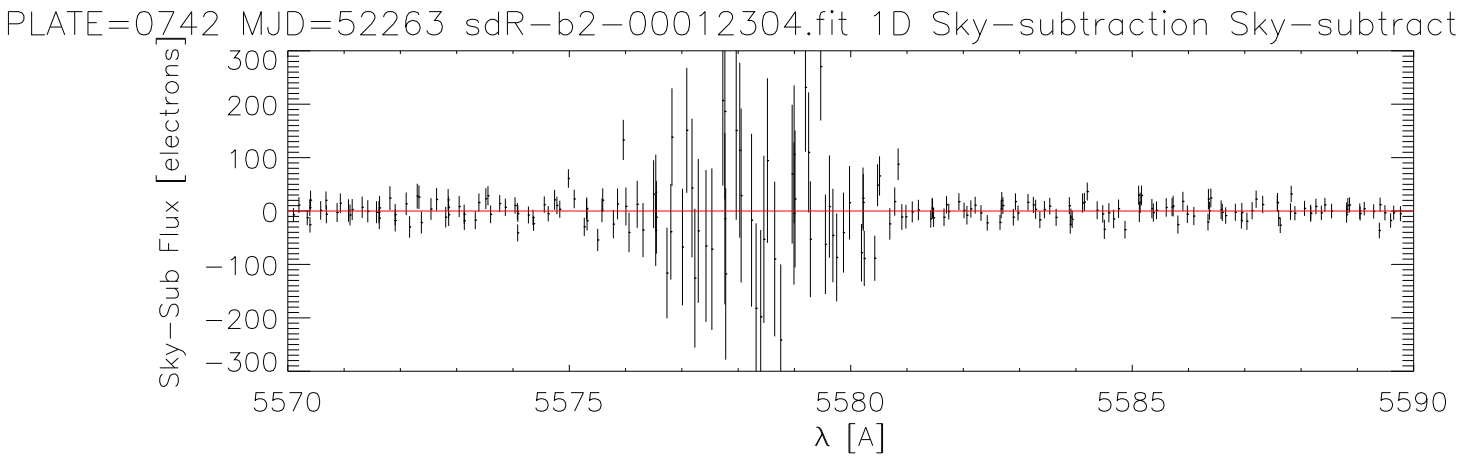

0.00
−0.05
−0.10
−0.15
−0.20
−0.25
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

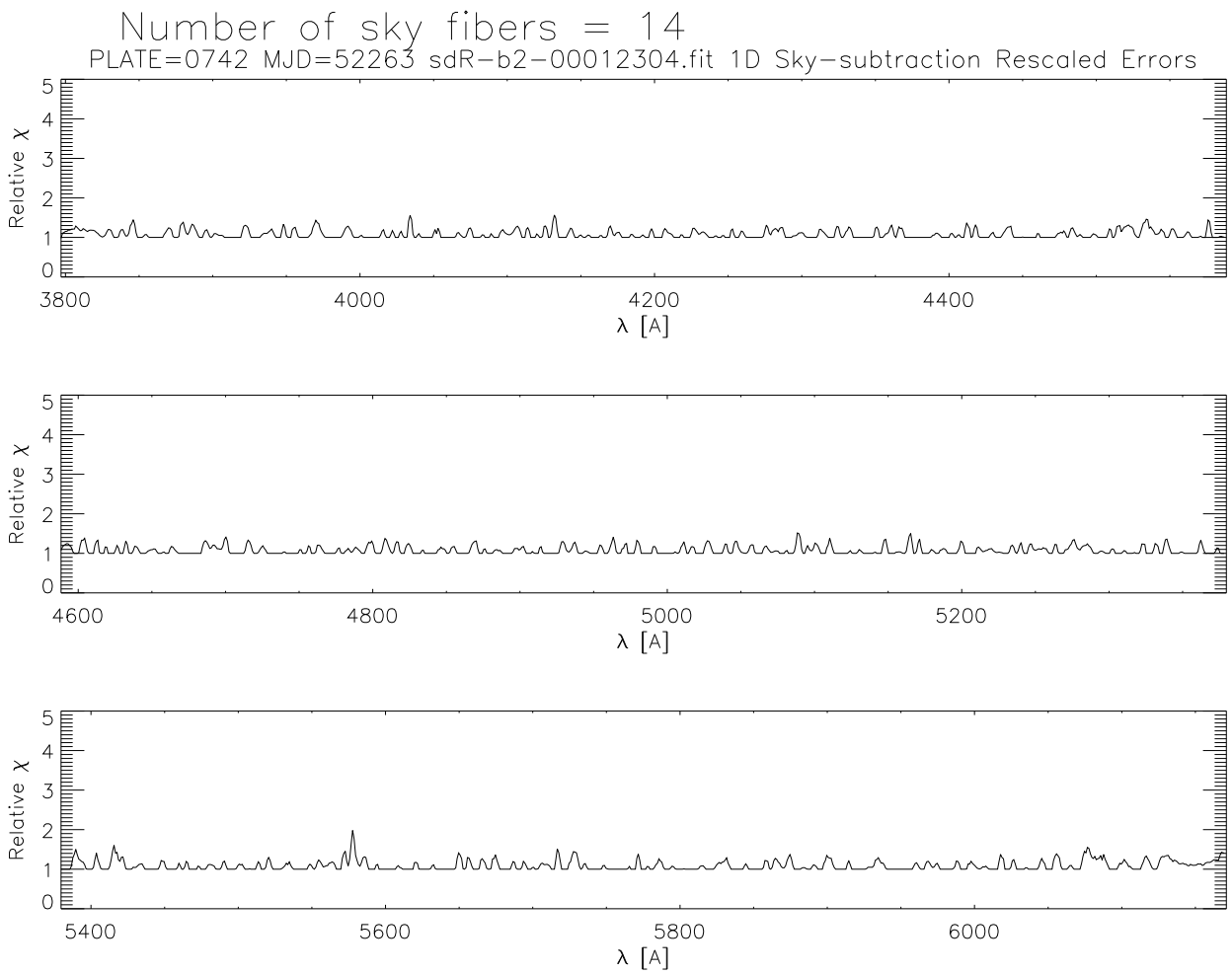
es= −0.0000

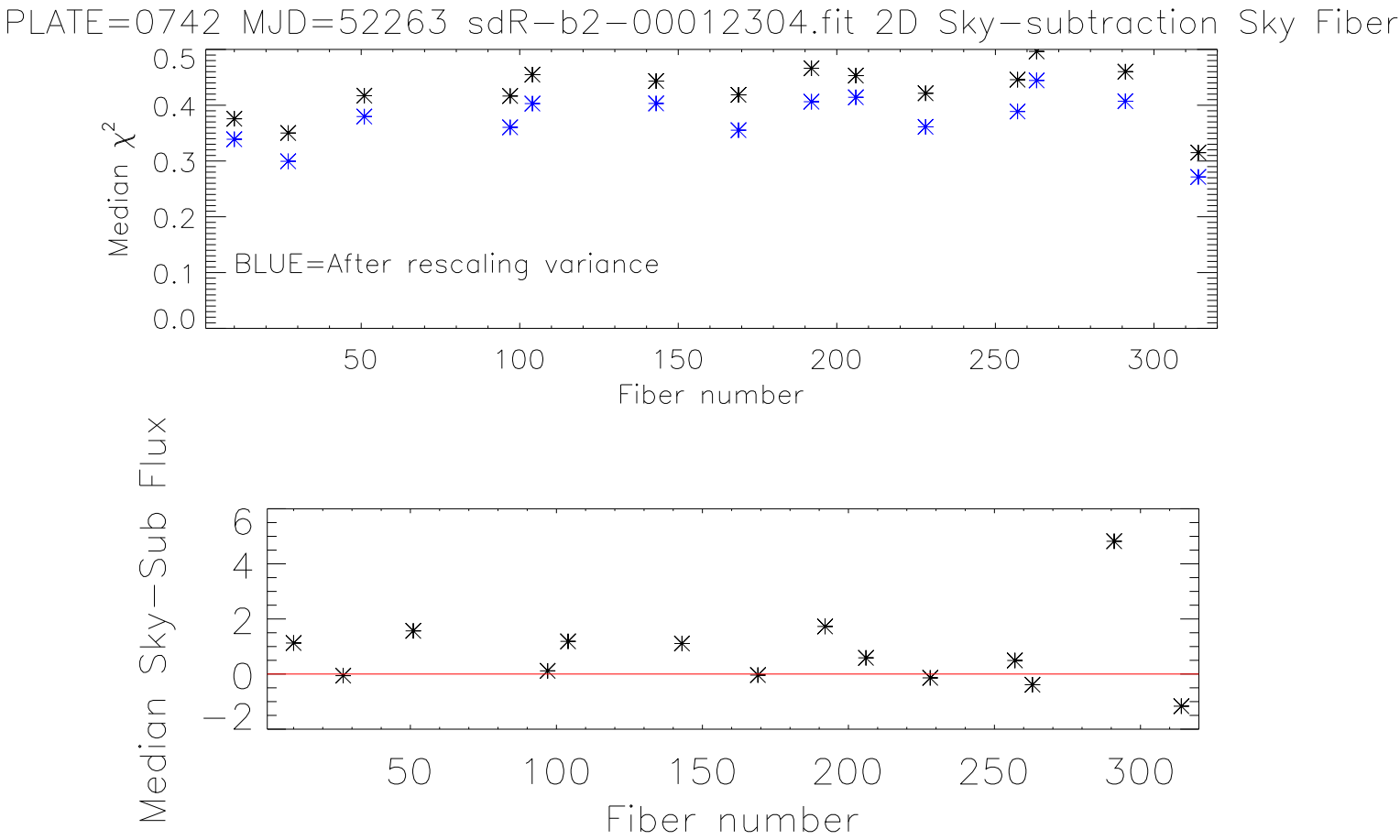

PLATE=0742 MJD=52263 Smooth superflat for sdR−b2−00012304.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
0.980
4000
4500
5000
5500
6000
Wavelength (Å)

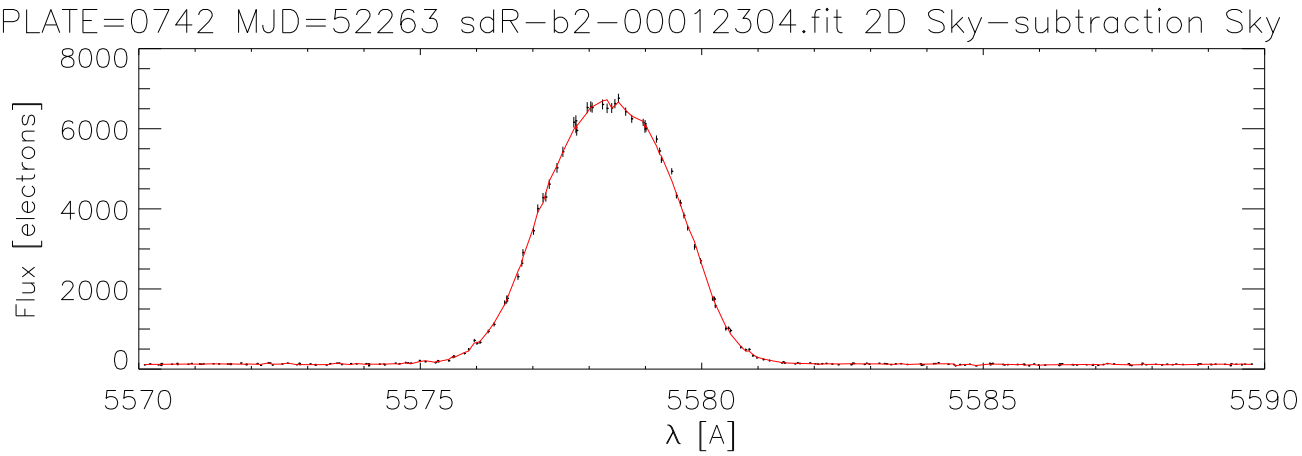

PLATE=0742 MJD=52263 sdR-b2-00012304.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
0
2
4
6
8
10
50
100
150
200
250
300
Fiber number

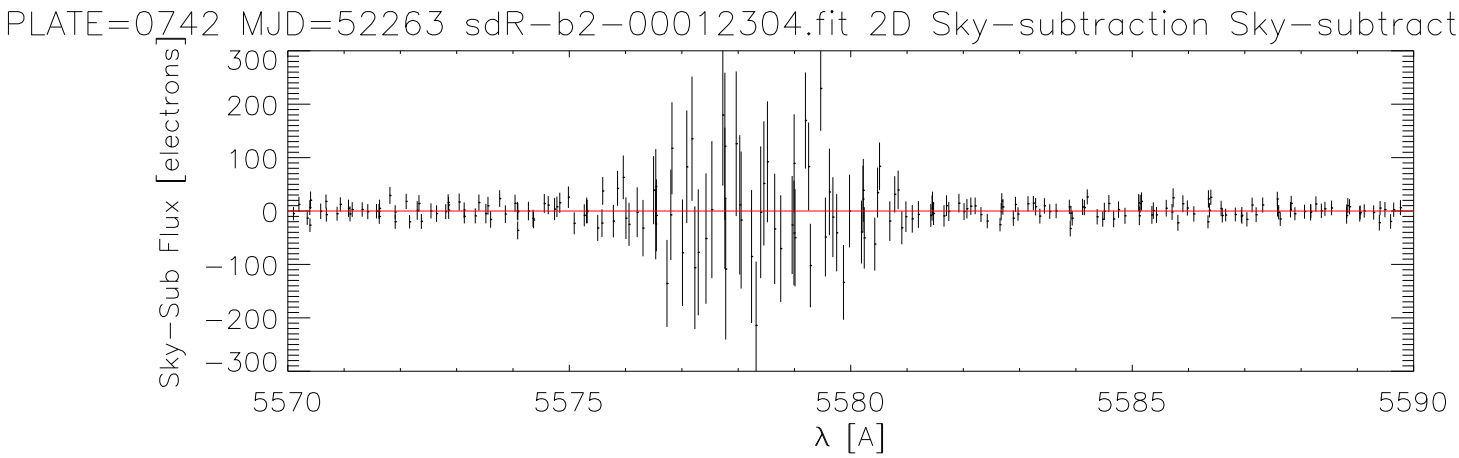

PLATE=0742 MJD=52263 sdR-b2-00012304.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

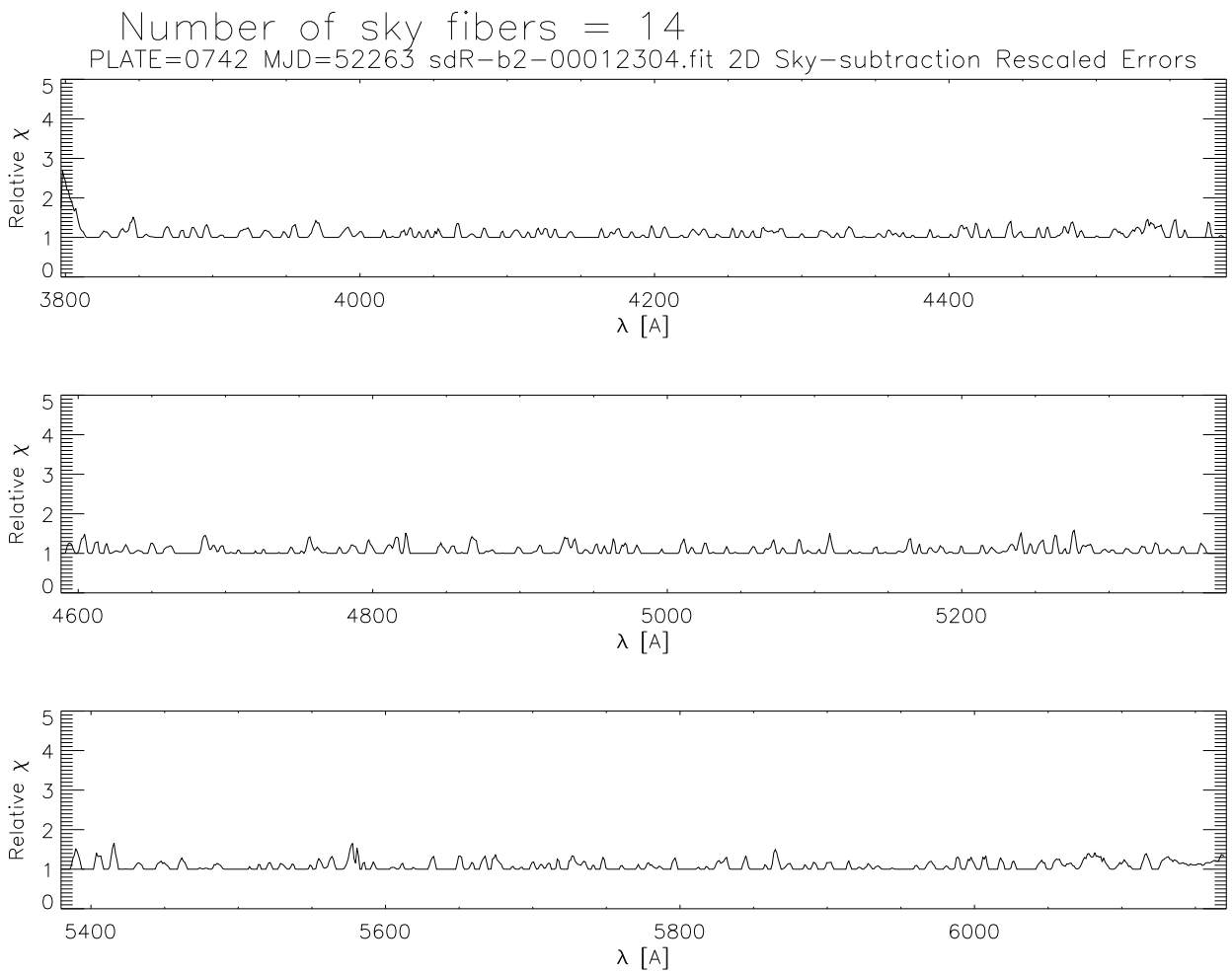

PLATE=0742 MJD=52263 sdR-b2-00012304.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

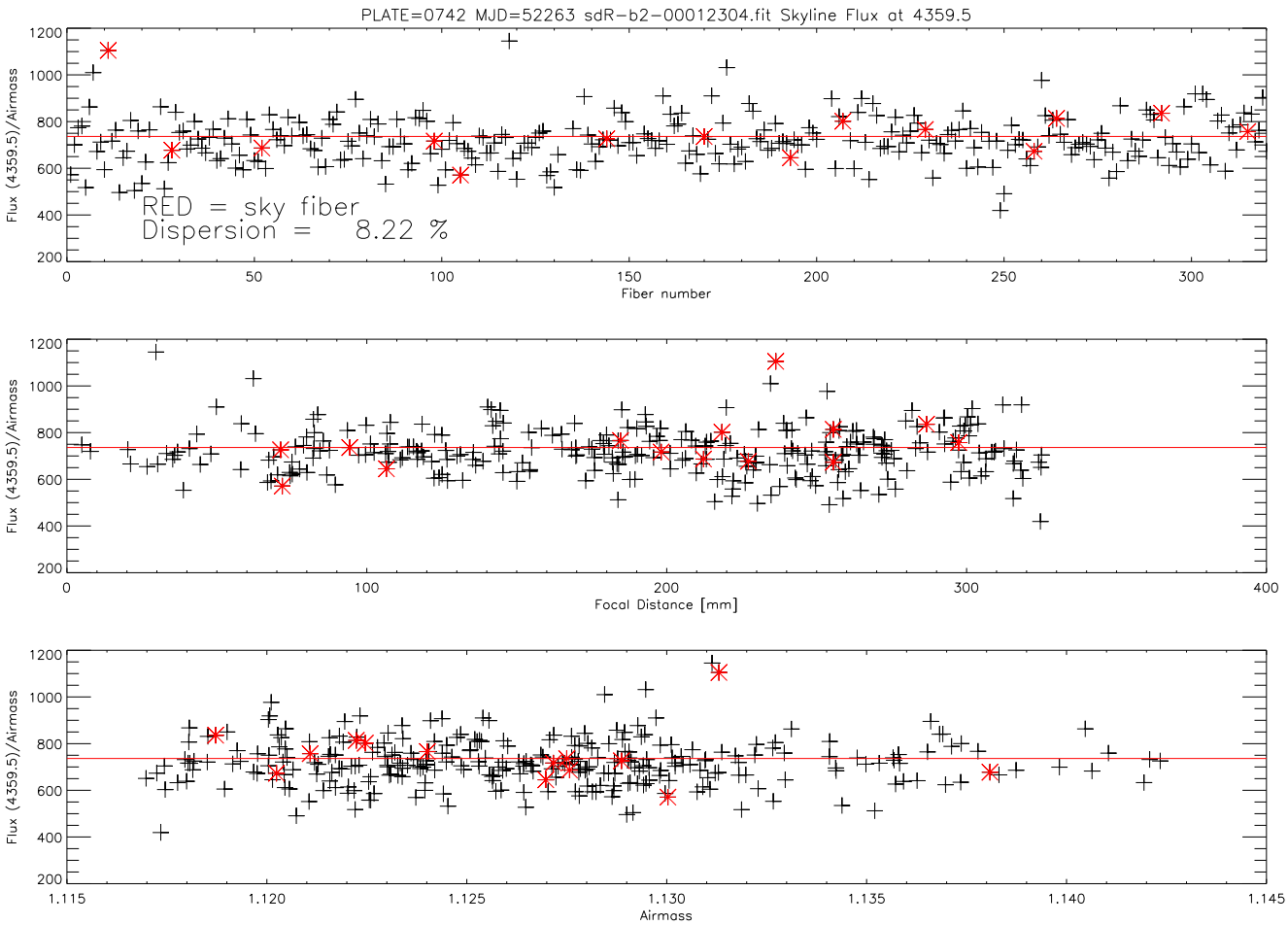

Number of sky fibers = 14
PLATE=0742 MJD=52263 sdR-b2-00012304.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

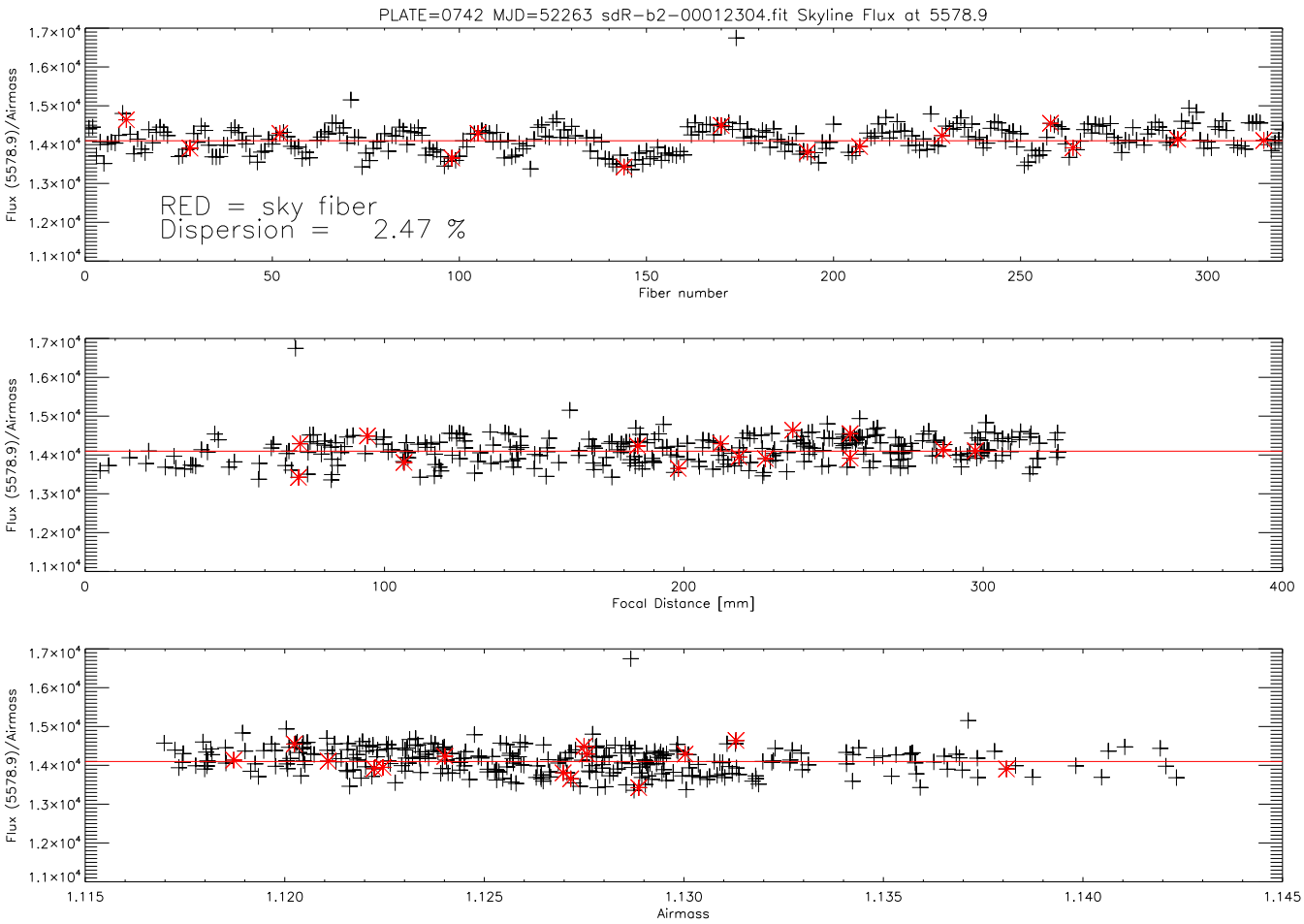

PLATE=0742 MJD=52263 sdR-b2-00012304.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

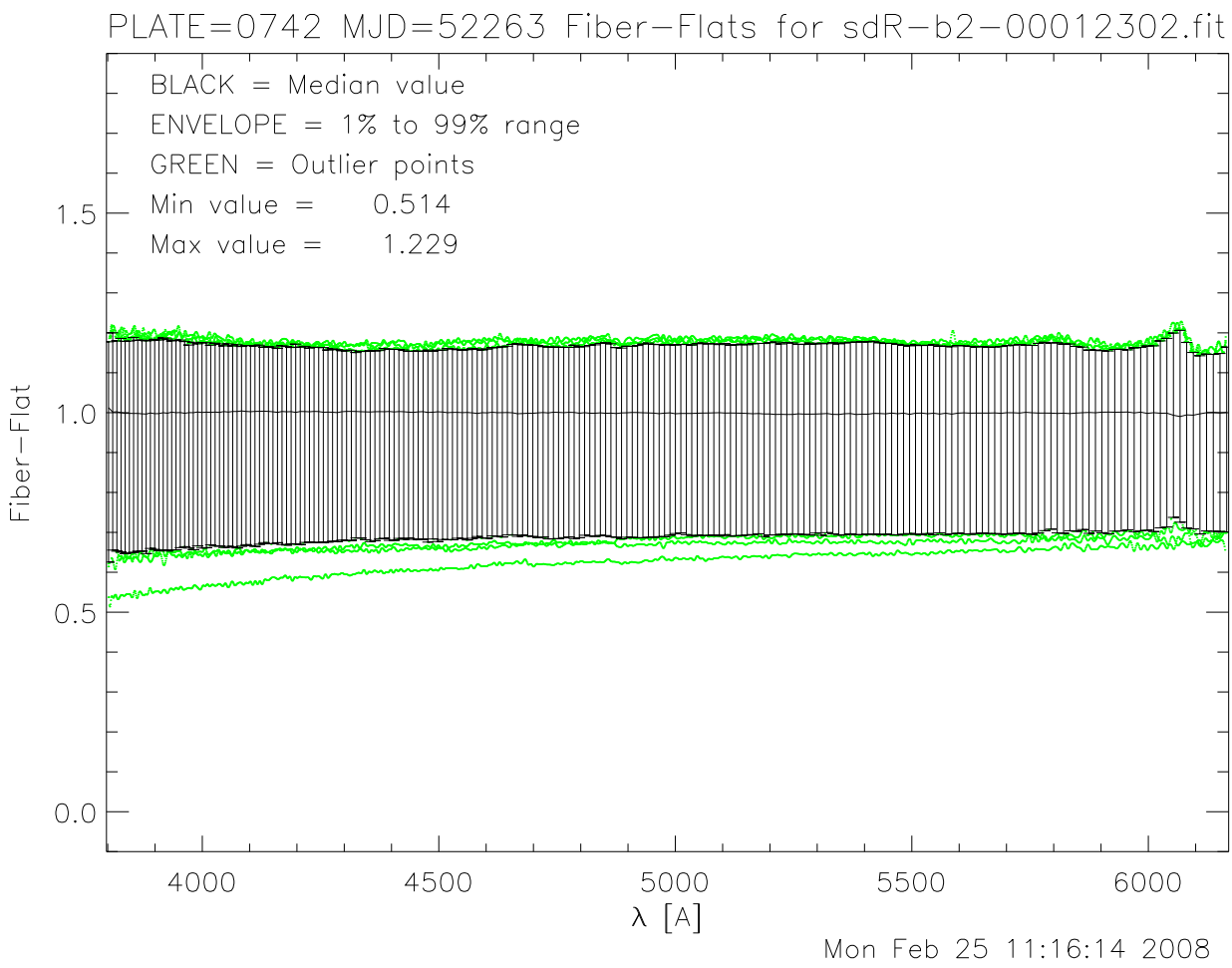

PLATE=0742 MJD=52263 sdR-b2-00012304.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

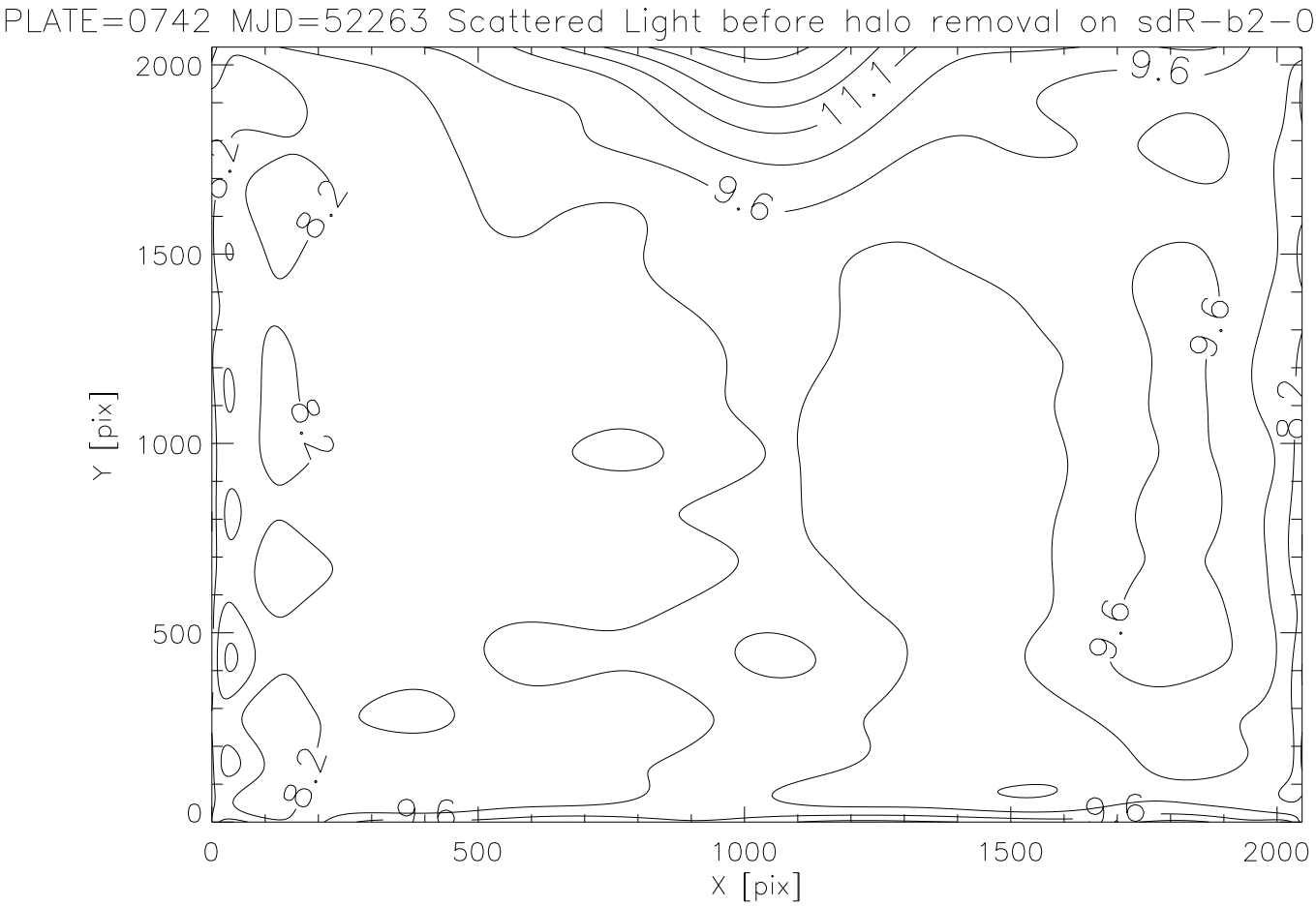

PLATE=0742 MJD=52263 sdR-b2-00012304.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

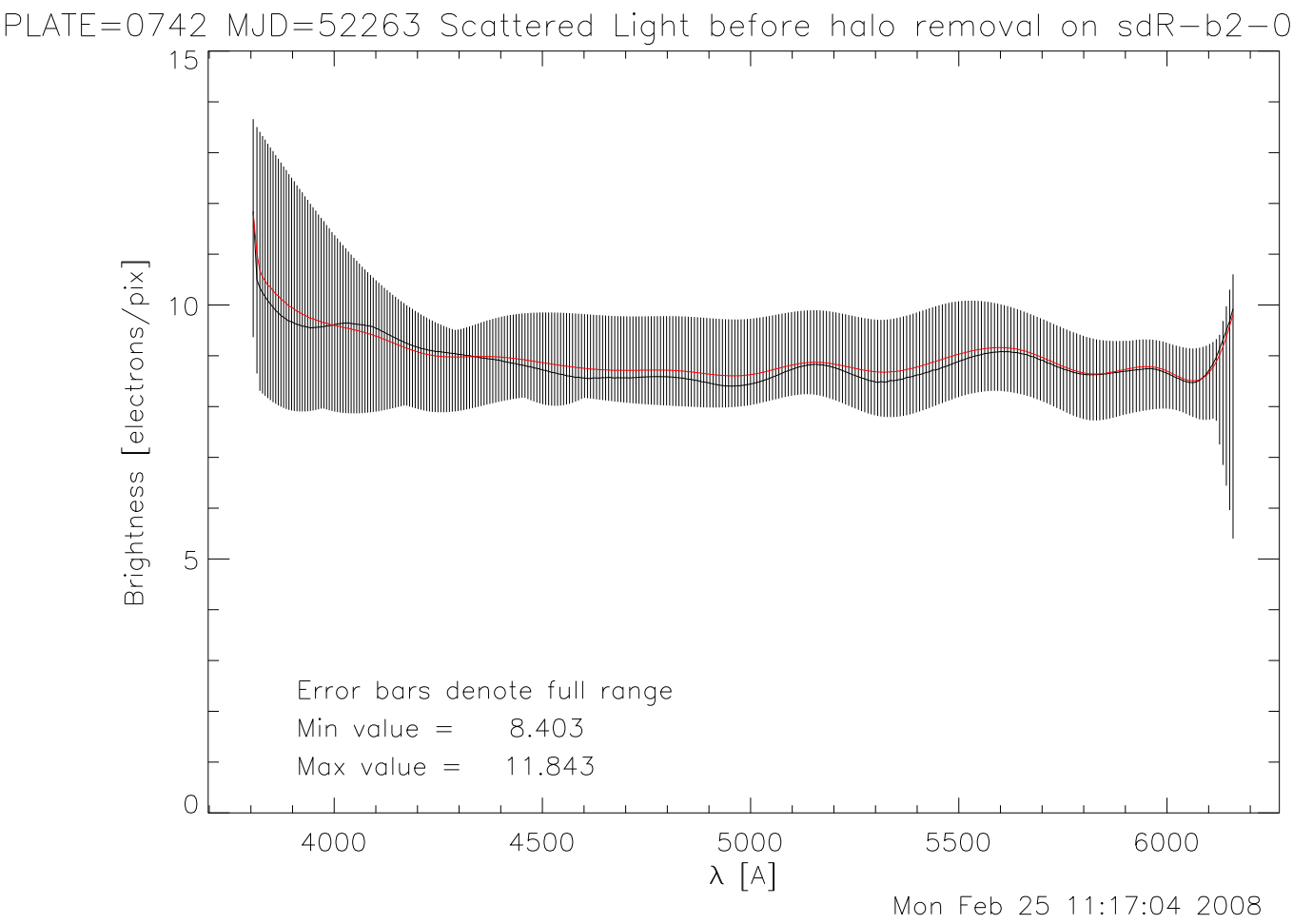

Number of sky fibers = 14
PLATE=0742 MJD=52263 sdR-b2-00012304.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

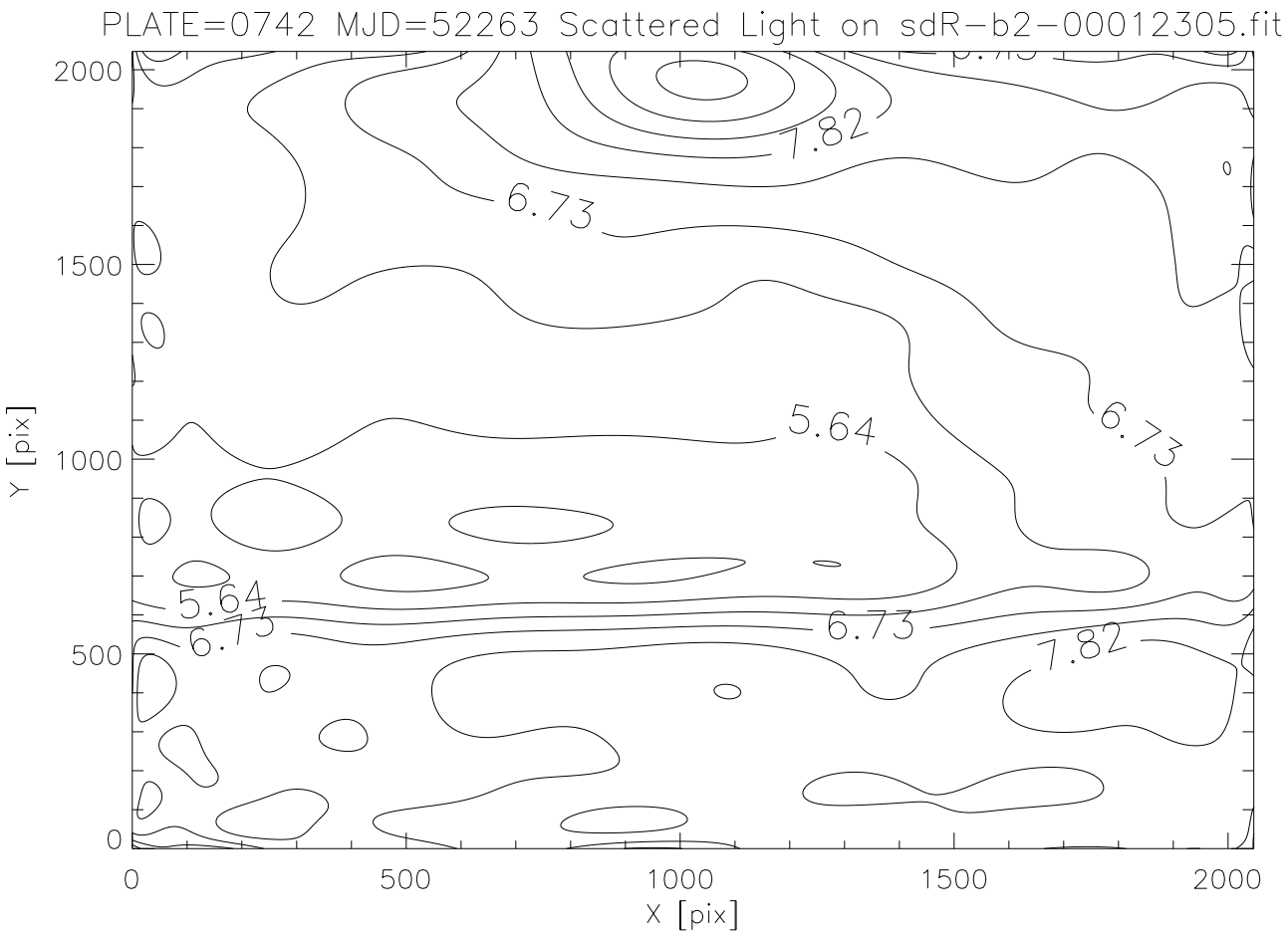

PLATE=0742 MJD=52263 sdR-b2-00012304.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 8.22 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

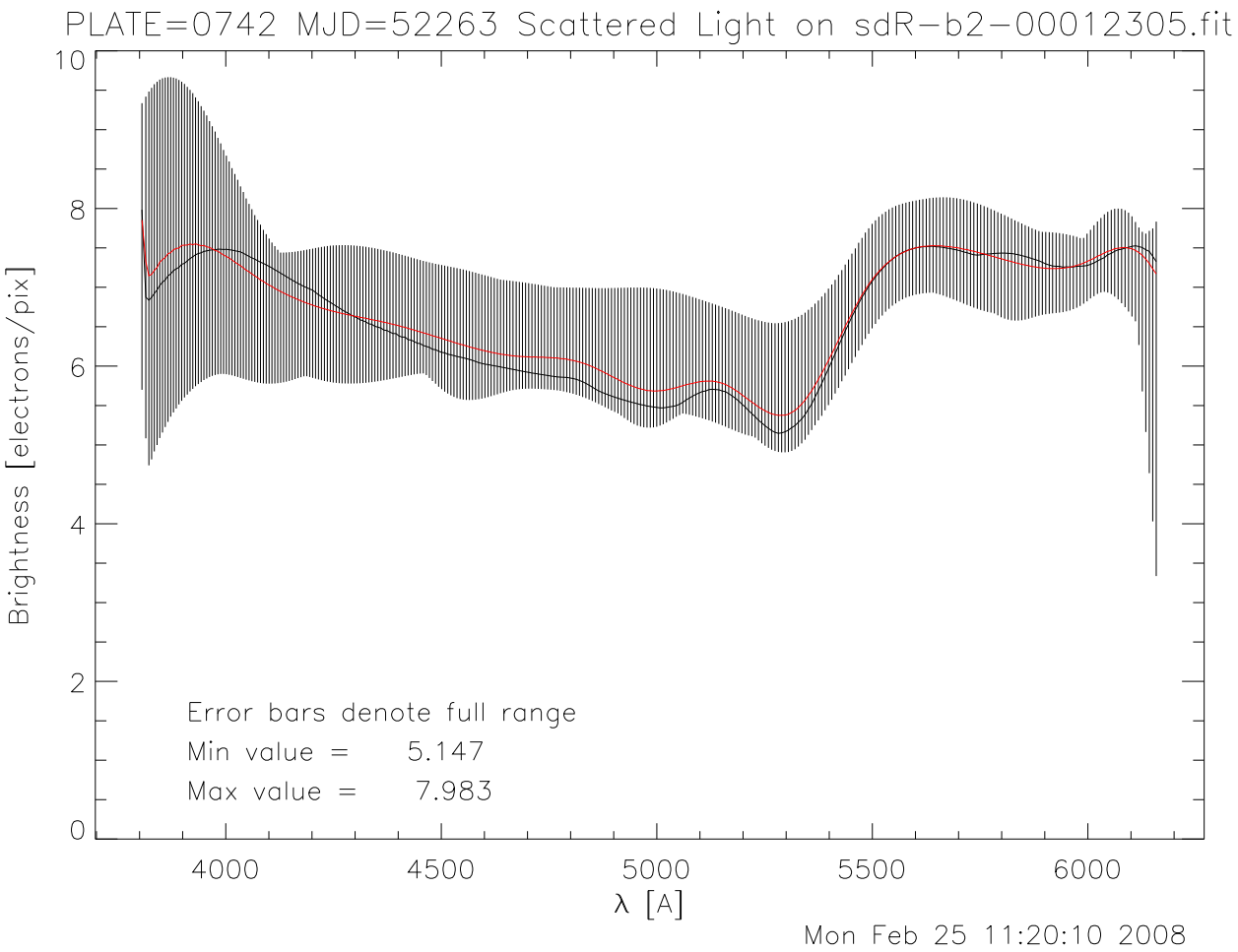

PLATE=0742 MJD=52263 sdR-b2-00012304.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.47 %
Fiber number
Focal Distance [mm]
Airmass

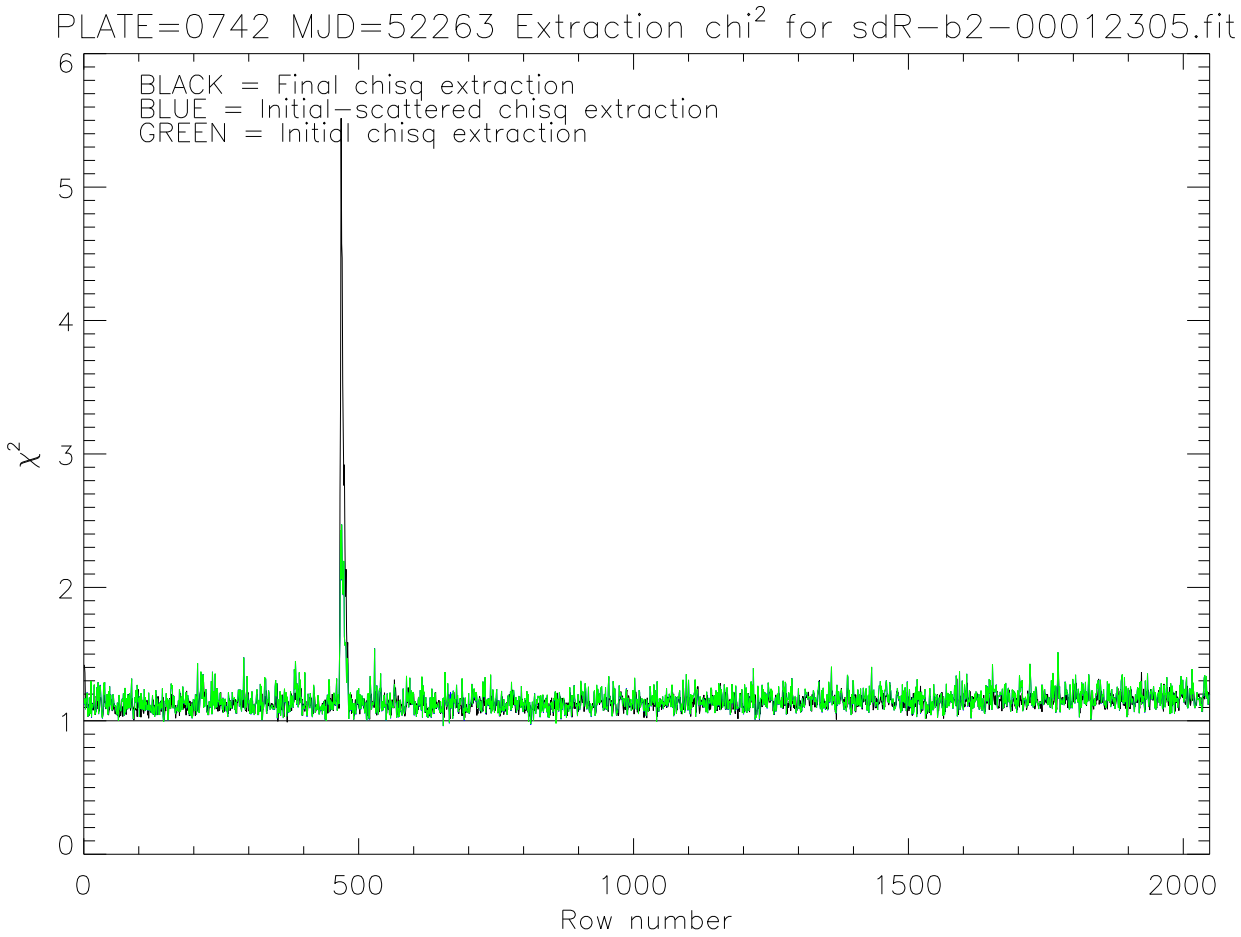

PLATE=0742 MJD=52263 Fiber-Flats for sdR-b2-00012302.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.514
Max value = 1.229
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 11:16:14 2008

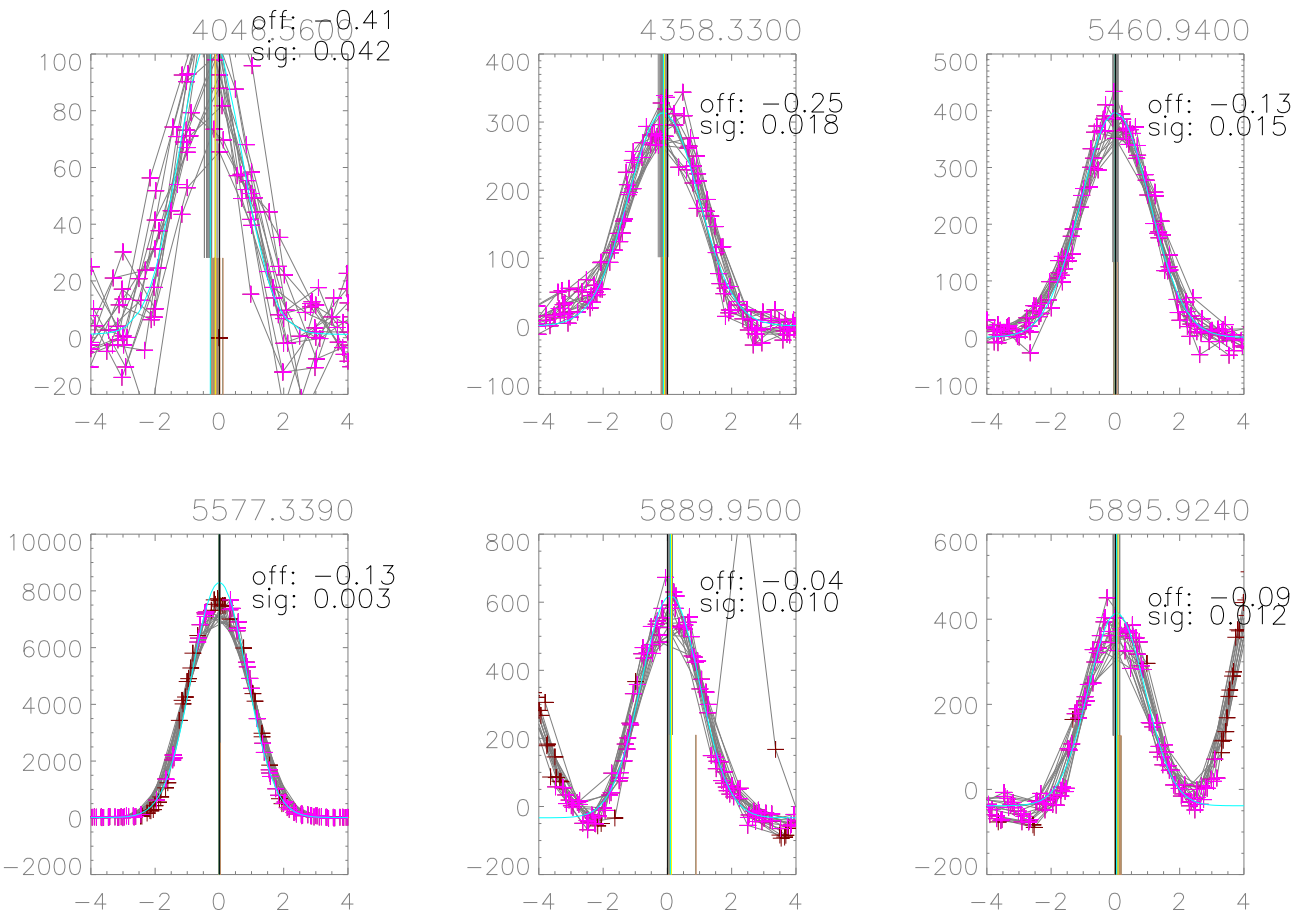

PLATE=0742 MJD=52263 Scattered Light before halo removal on sdR-b2-00012305.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
11.1
9.6
8.2

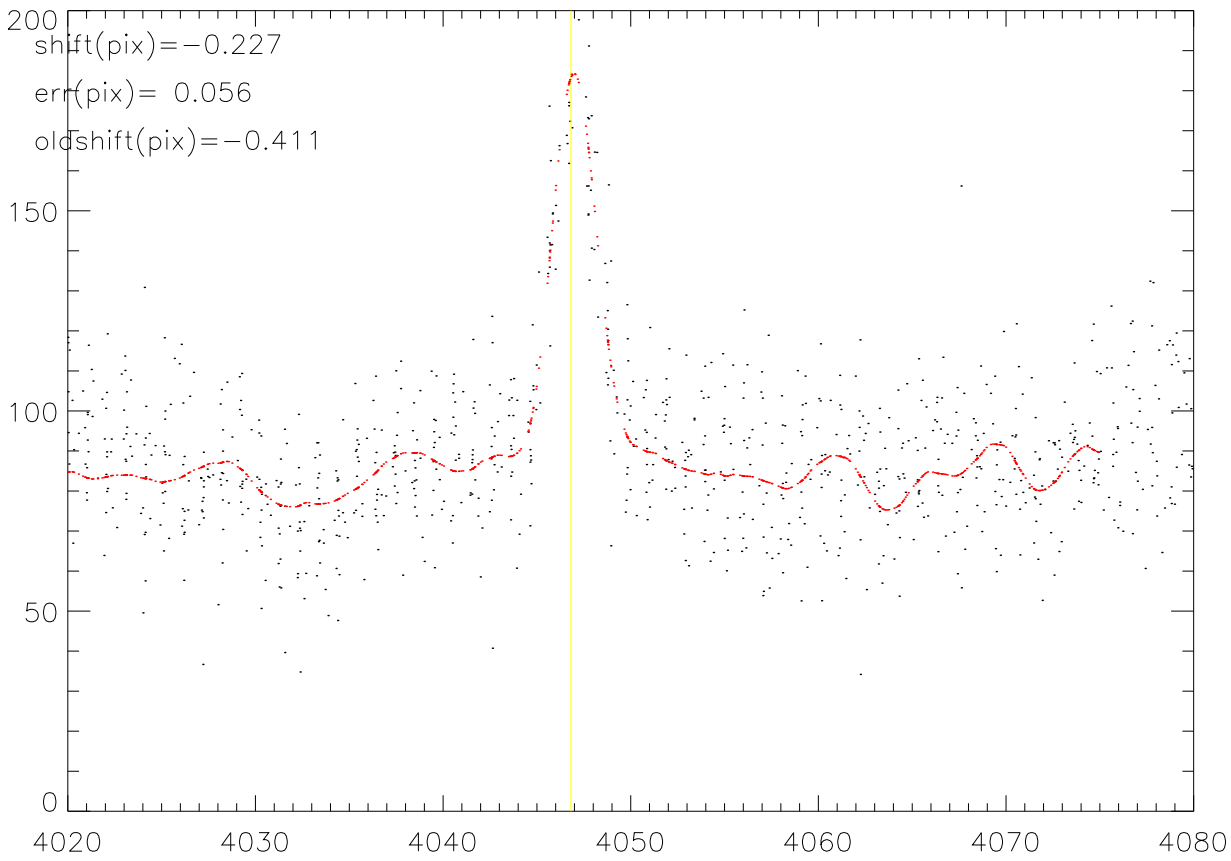

PLATE=0742 MJD=52263 Scattered Light before halo removal on sdR-b2-00012305.f
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 8.403
Max value = 11.843
Mon Feb 25 11:17:04 2008

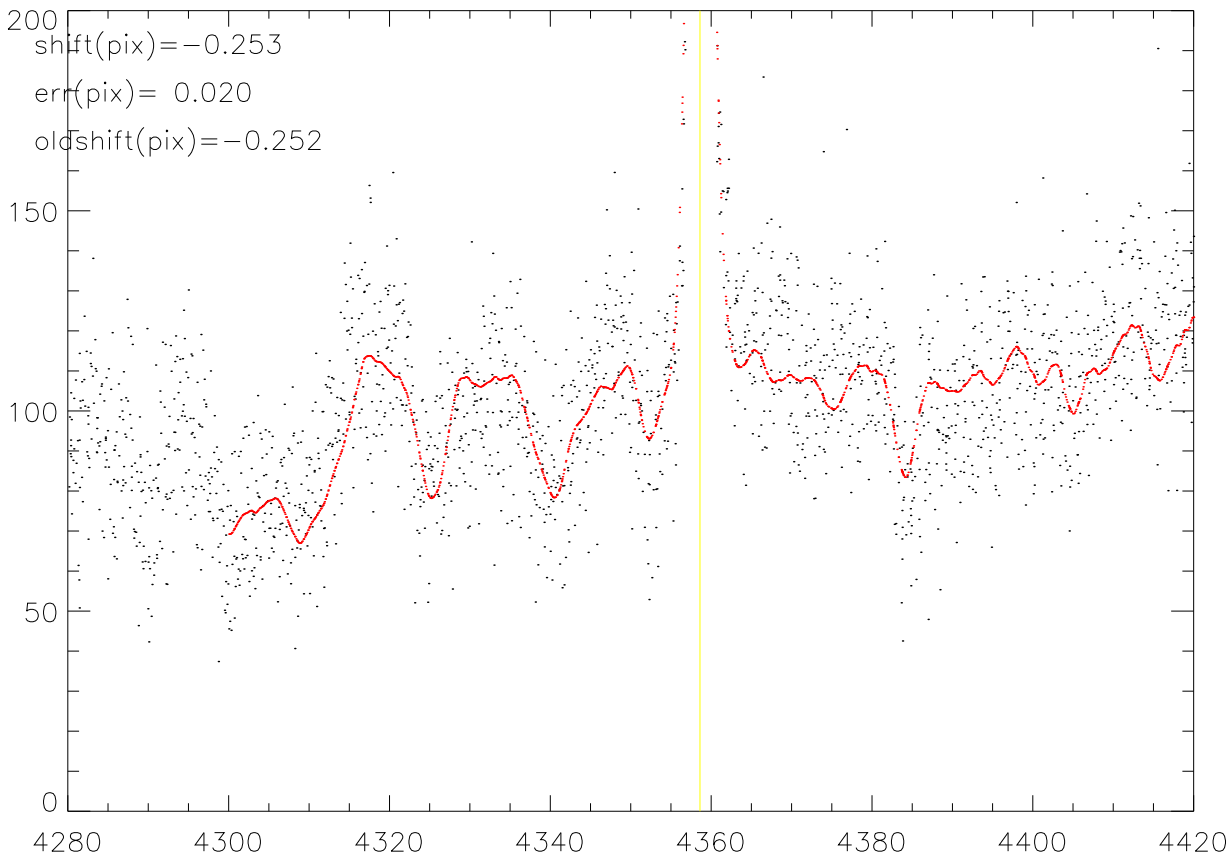

PLATE=0742 MJD=52263 Scattered Light on sdR-b2-00012305.fit
7.82
6.73
5.64
6.73
5.64
6.73
6.73
7.82
Y [pix]
X [pix]
0
500
1000
1500
2000

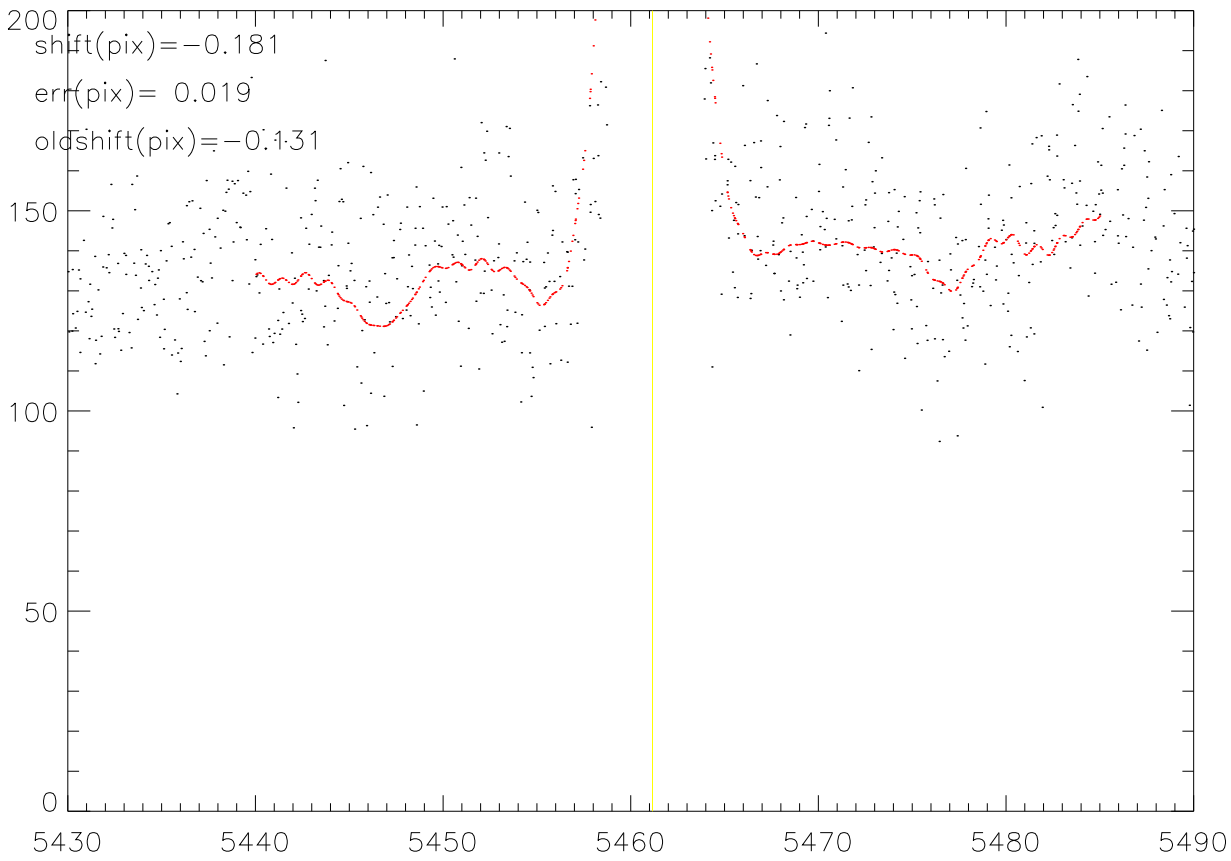

PLATE=0742 MJD=52263 Scattered Light on sdR-b2-00012305.fit
Brightness [electrons/pix]
10
8
6
4
2
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 5.147
Max value = 7.983
Mon Feb 25 11:20:10 2008

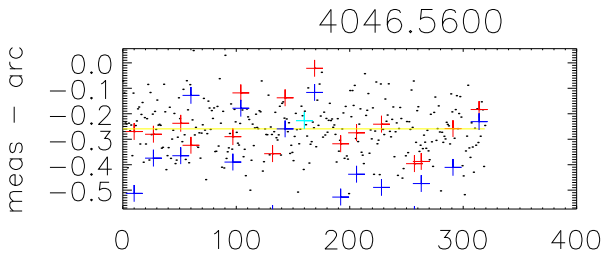

PLATE=0742 MJD=52263 Extraction chi^2 for sdR-b2-00012305.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

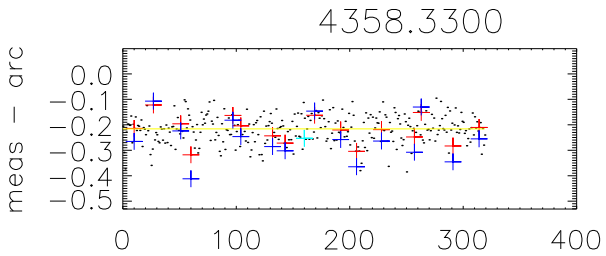

4046.5600
off: −0.41
sig: 0.042
4358.3300
off: −0.25
sig: 0.018
5460.9400
off: −0.13
sig: 0.015
5577.3390
off: −0.13
sig: 0.003
5889.9500
off: −0.04
sig: 0.010
5895.9240
off: −0.09
sig: 0.012

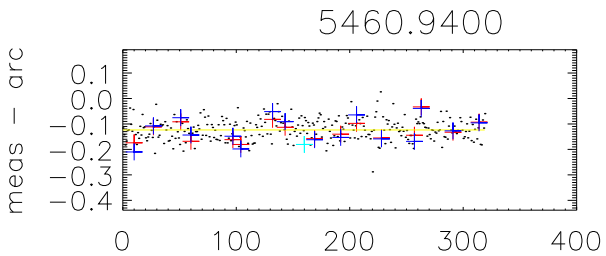

shift(pix)=−0.227
err(pix)= 0.056
oldshift(pix)=−0.411
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

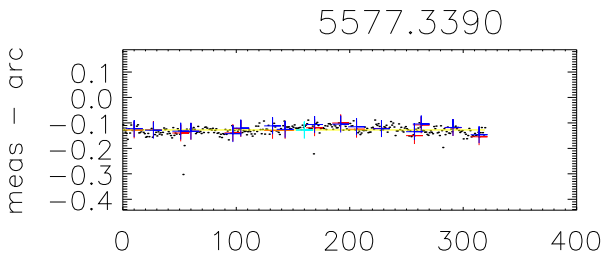

shift(pix)=−0.253
err(pix)= 0.020
oldshift(pix)=−0.252
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

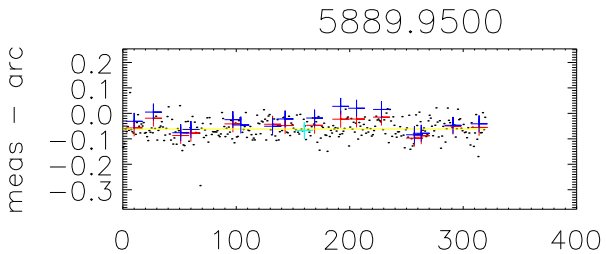

shift(pix)=−0.181
err(pix)= 0.019
oldshift(pix)=−0.131
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

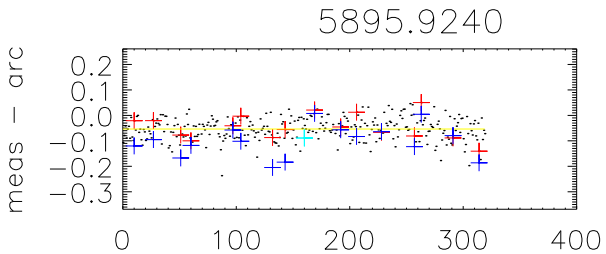

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

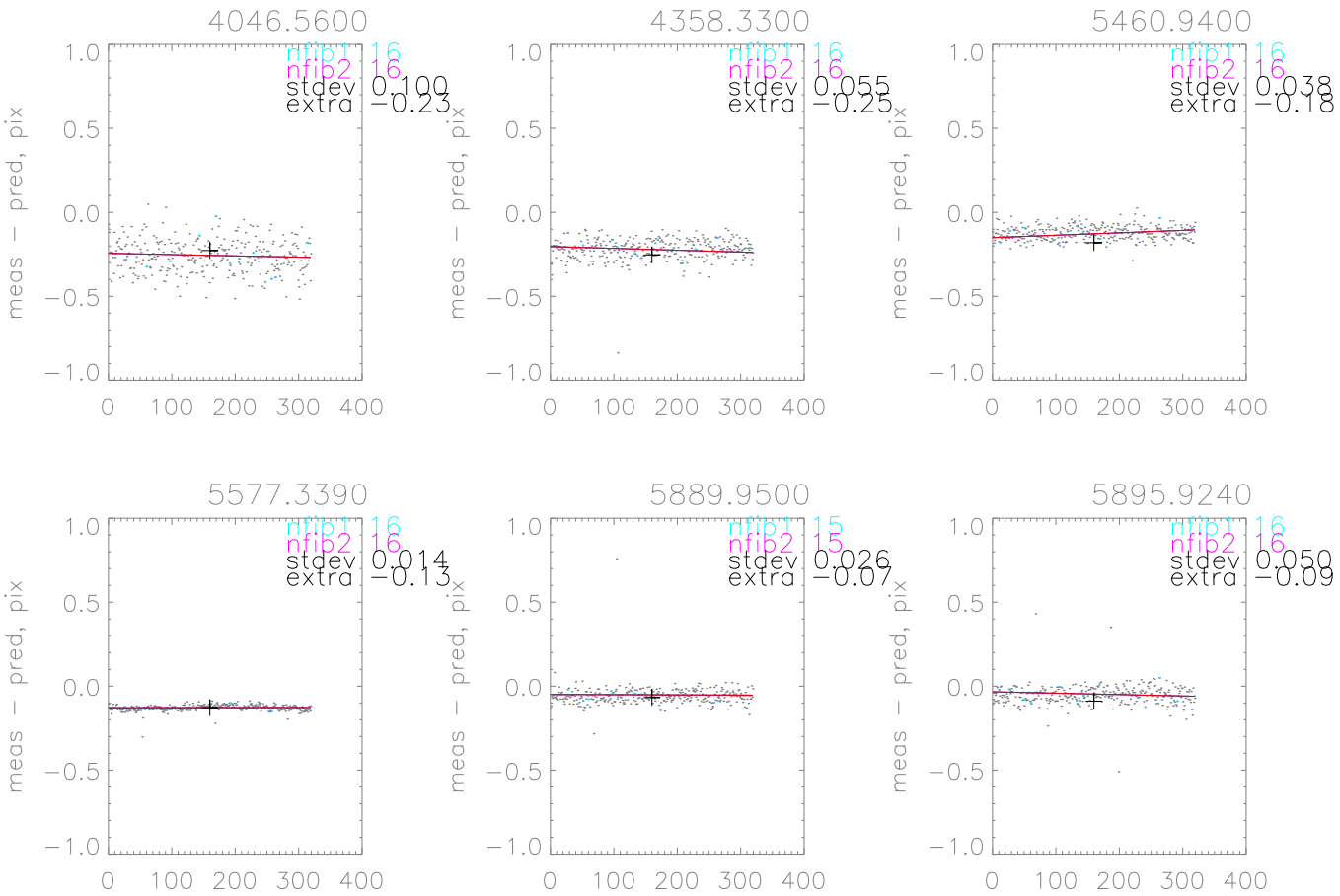

4358.3300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

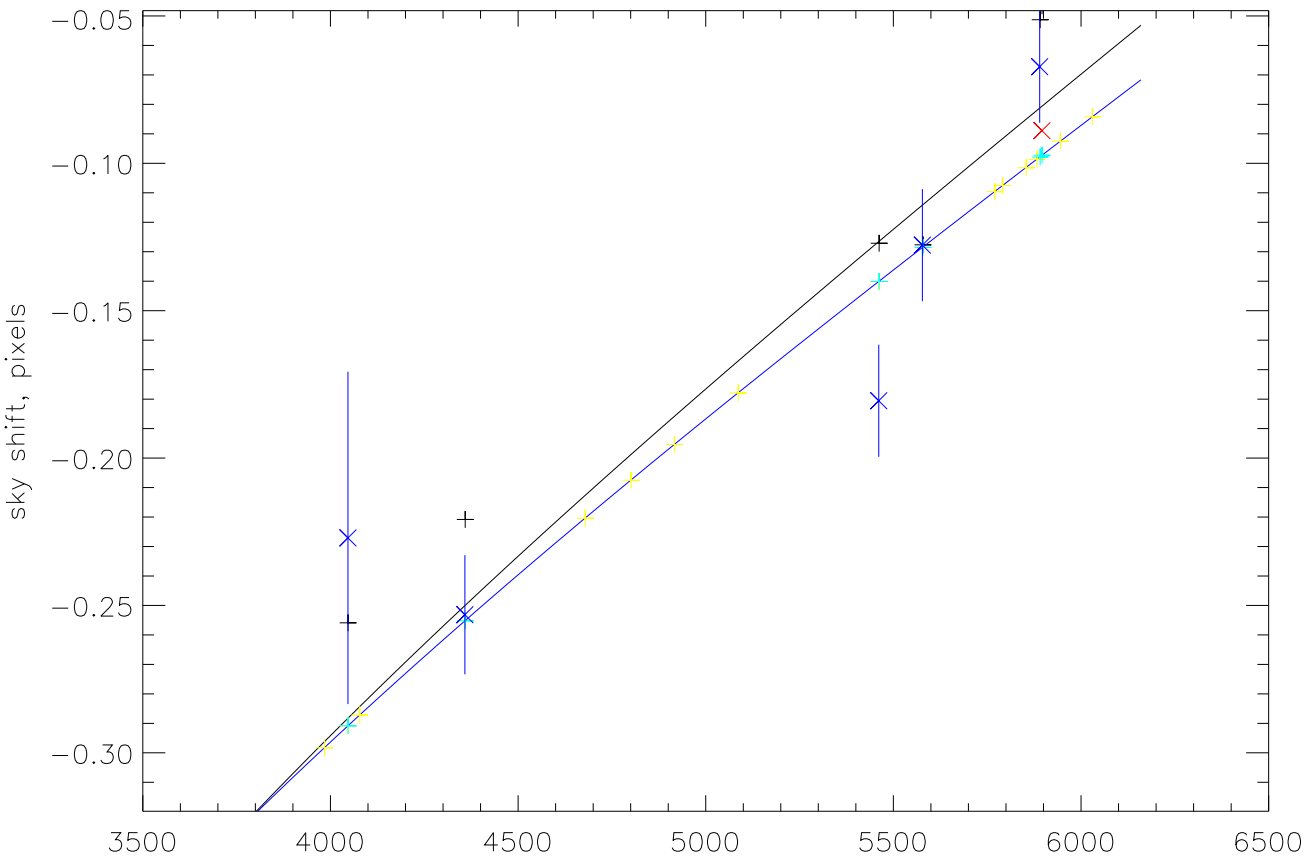

5460.9400
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

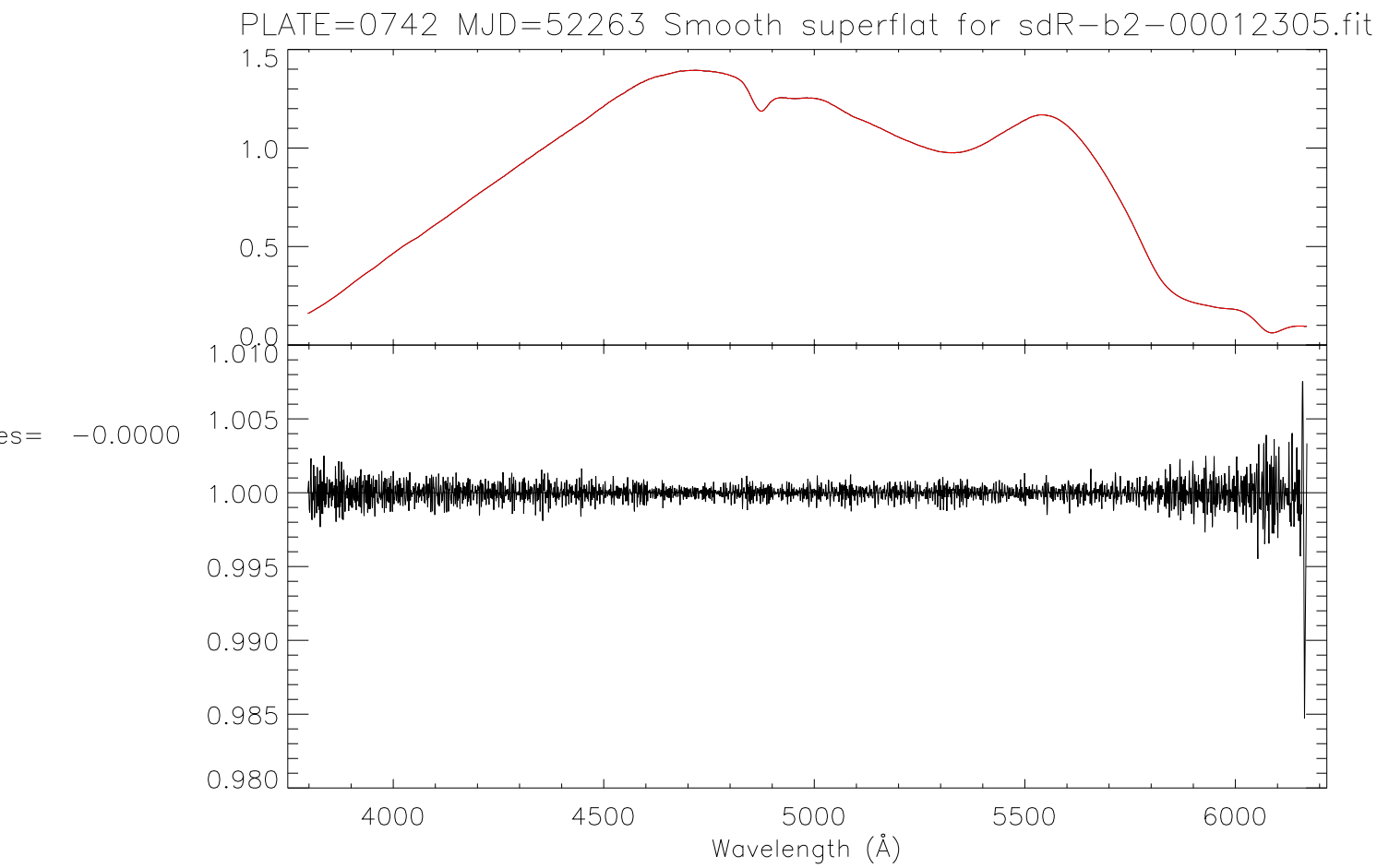

5577.3390
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

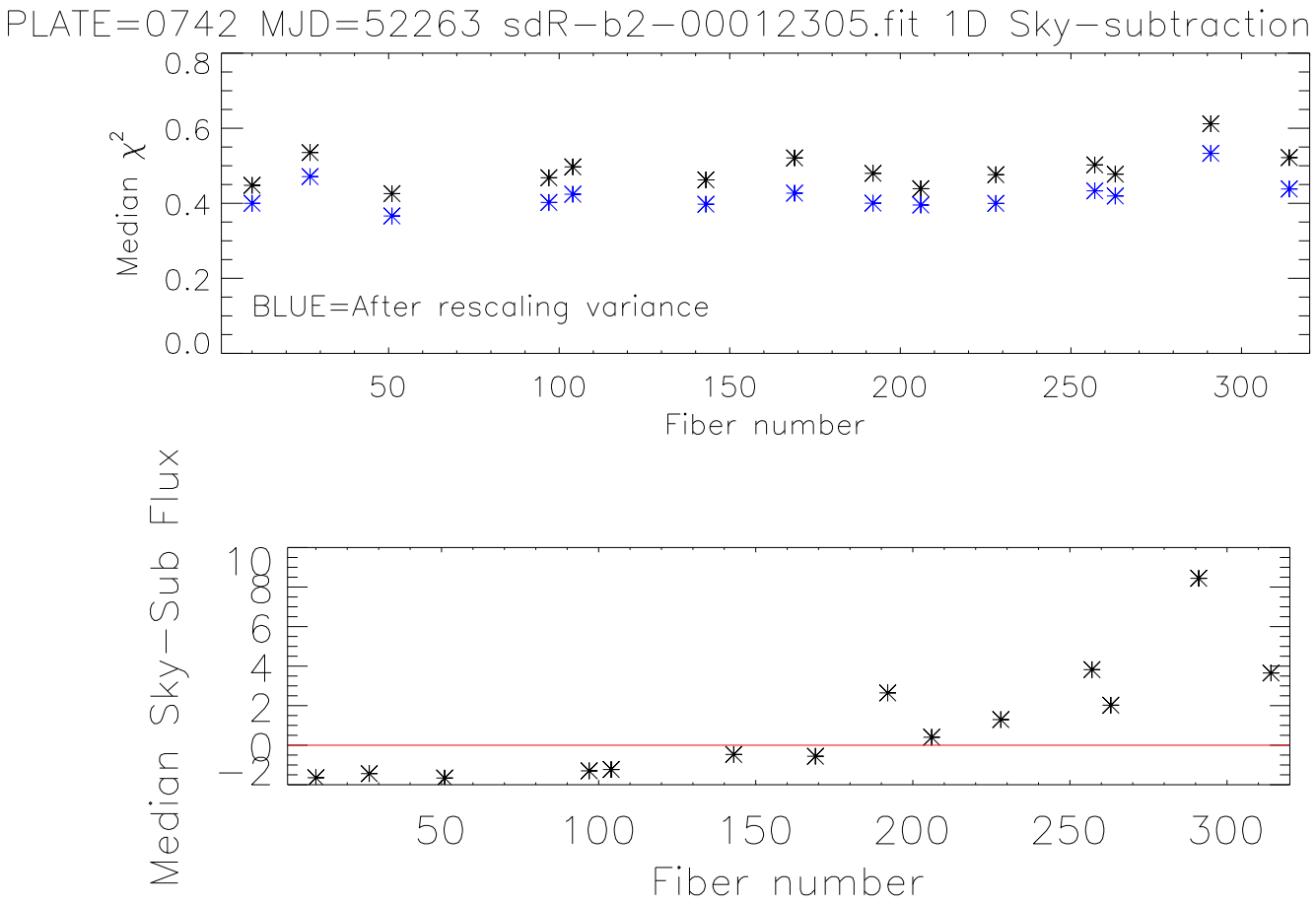

5889.9500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

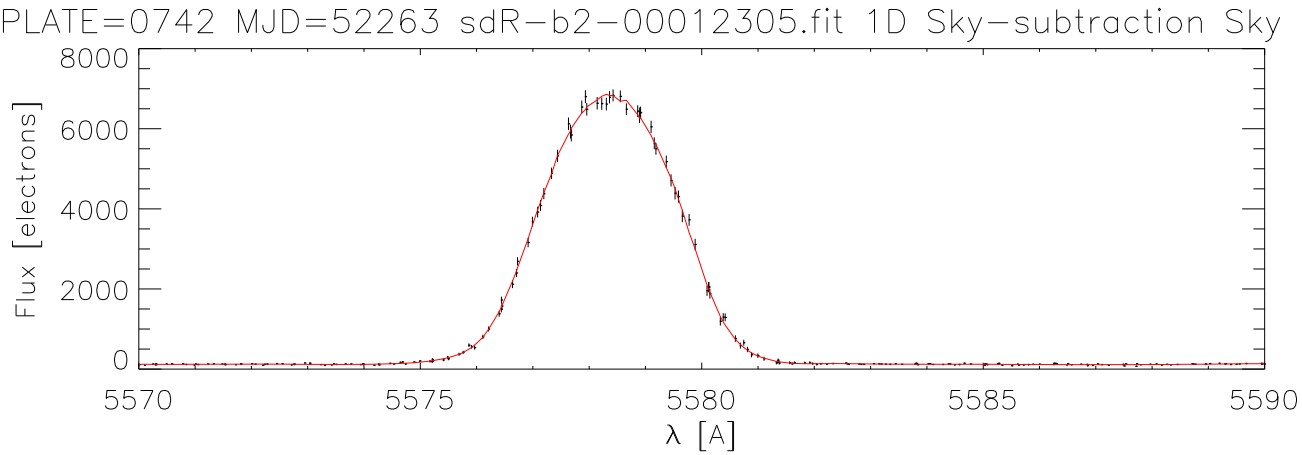

5895.9240
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

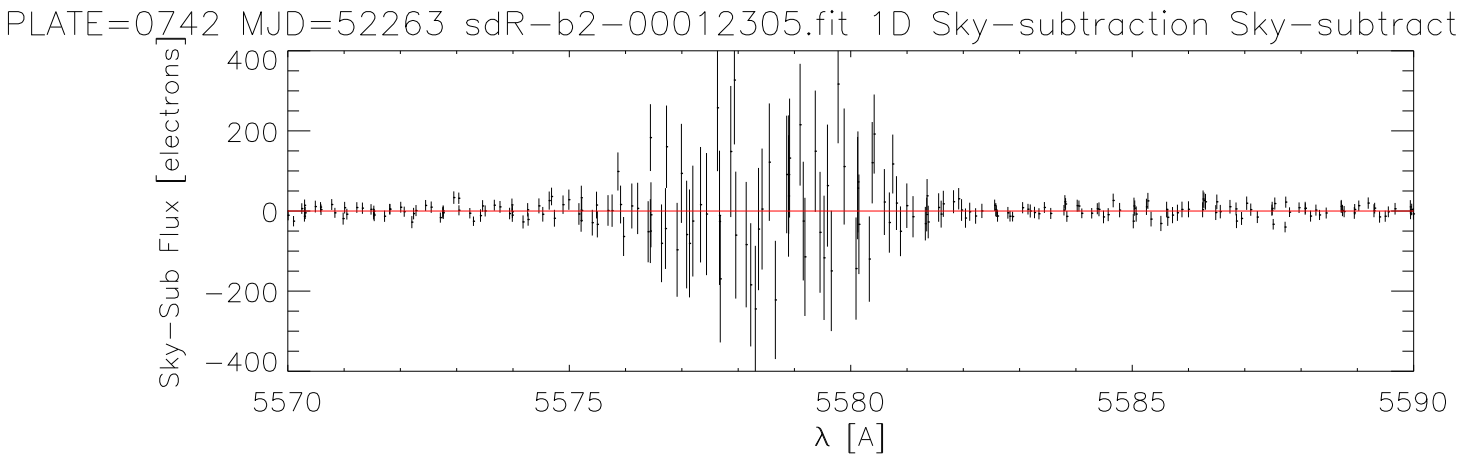

4046.5600
nfib1 16
nfib2 16
stdev 0.100
extra −0.23
4358.3300
nfib1 16
nfib2 16
stdev 0.055
extra −0.25
5460.9400
nfib1 16
nfib2 16
stdev 0.038
extra −0.18
5577.3390
nfib1 16
nfib2 16
stdev 0.014
extra −0.13
5889.9500
nfib1 15
nfib2 15
stdev 0.026
extra −0.07
5895.9240
nfib1 16
nfib2 16
stdev 0.050
extra −0.09
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

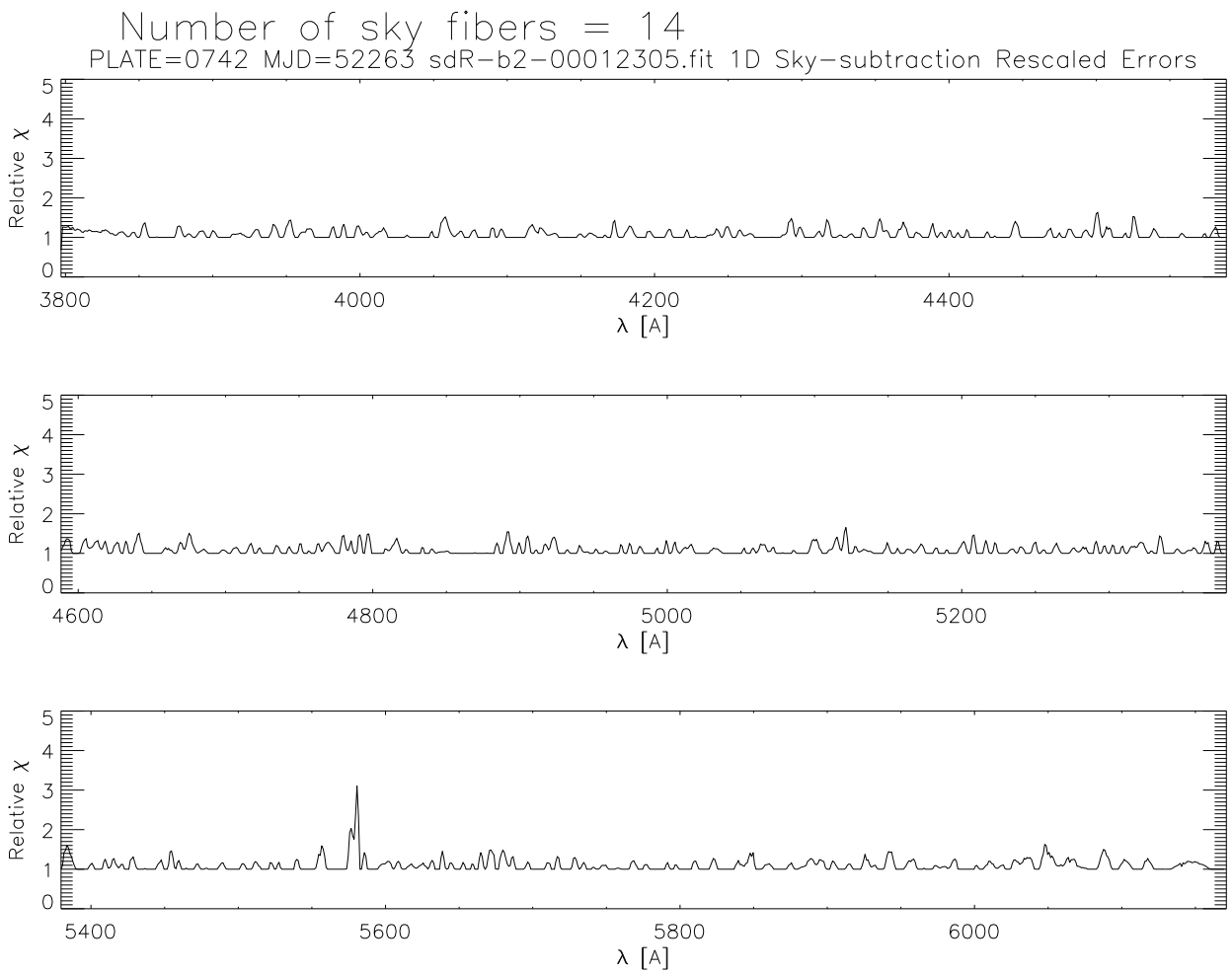

−0.05
−0.10
−0.15
−0.20
−0.25
−0.30
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

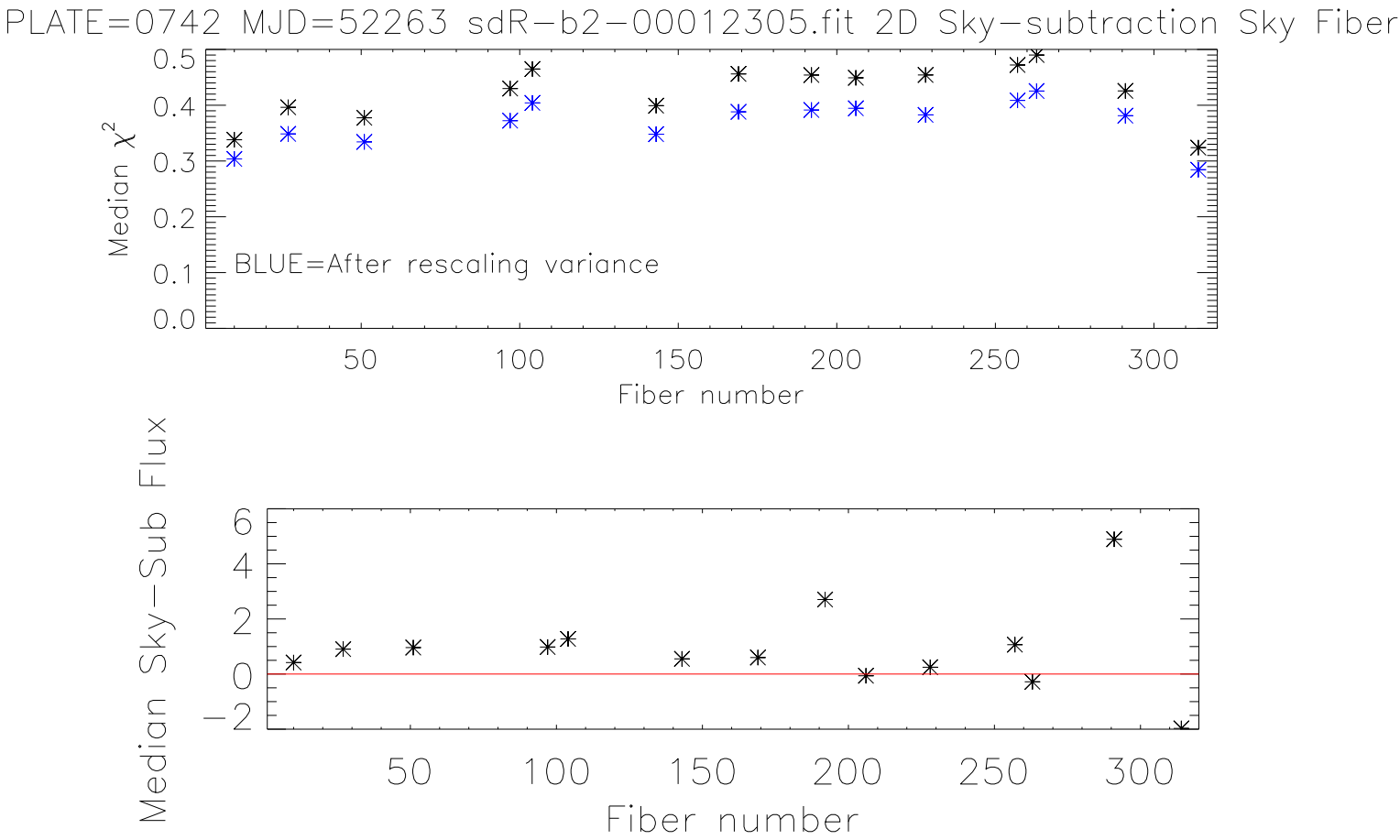

PLATE=0742 MJD=52263 Smooth superflat for sdR-b2-00012305.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
0.980
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

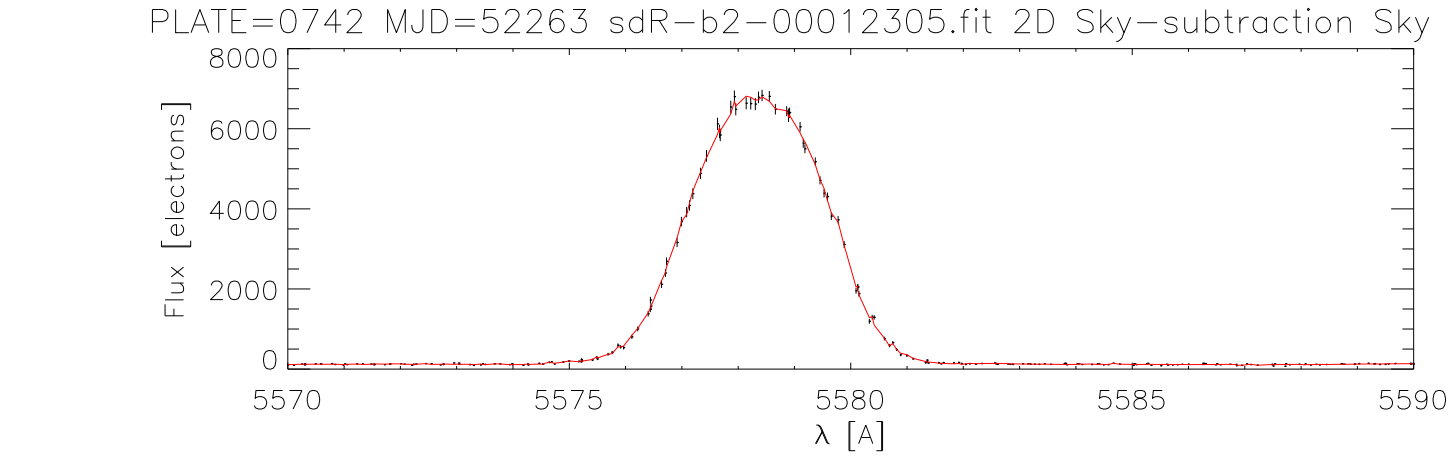

PLATE=0742 MJD=52263 sdR-b2-00012305.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
0
2
4
6
8
10
50
100
150
200
250
300
Fiber number

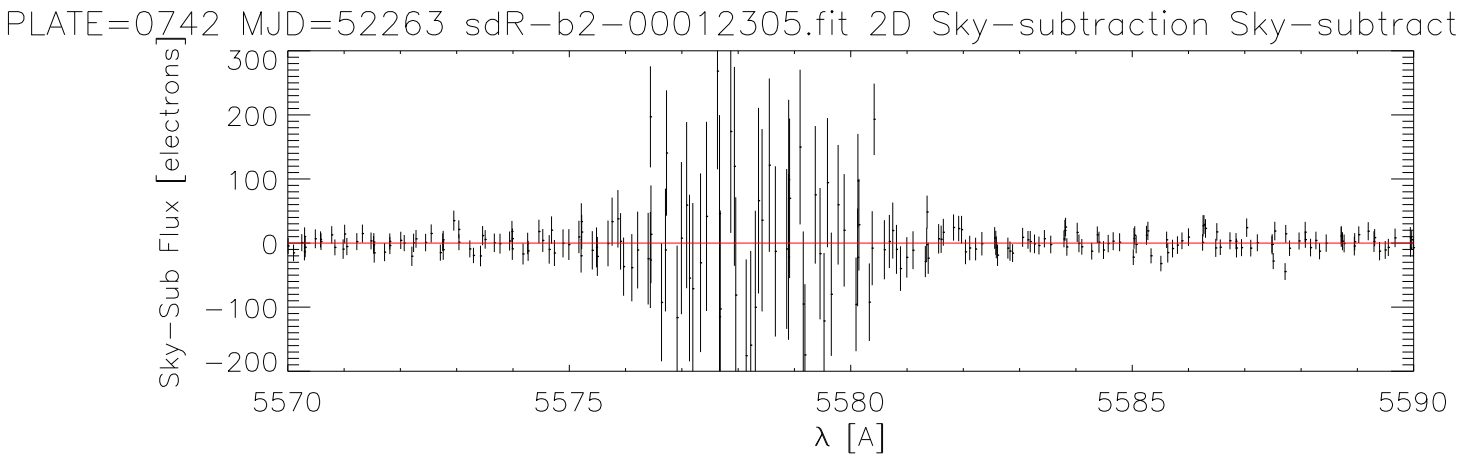

PLATE=0742 MJD=52263 sdR-b2-00012305.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

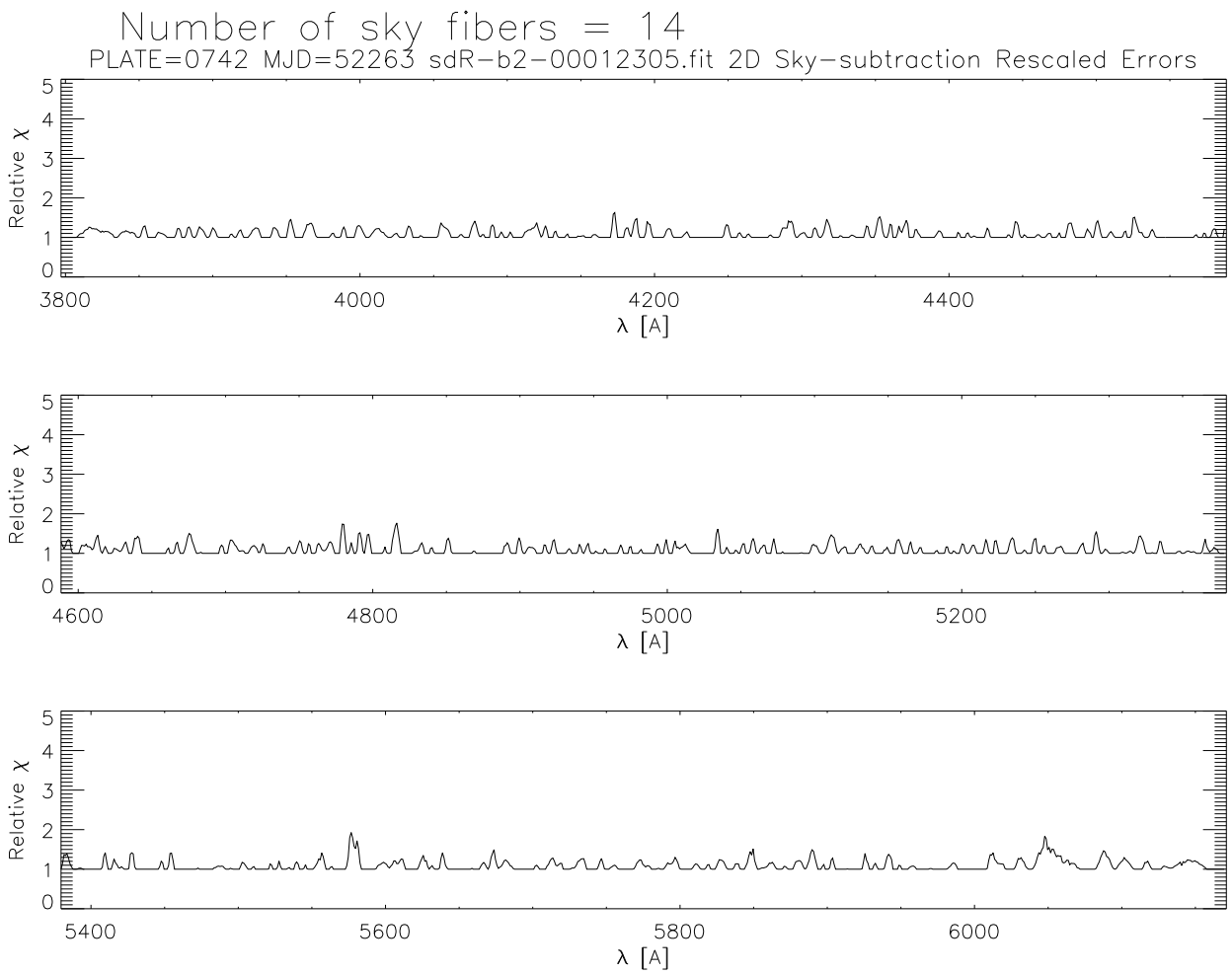

PLATE=0742 MJD=52263 sdR-b2-00012305.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

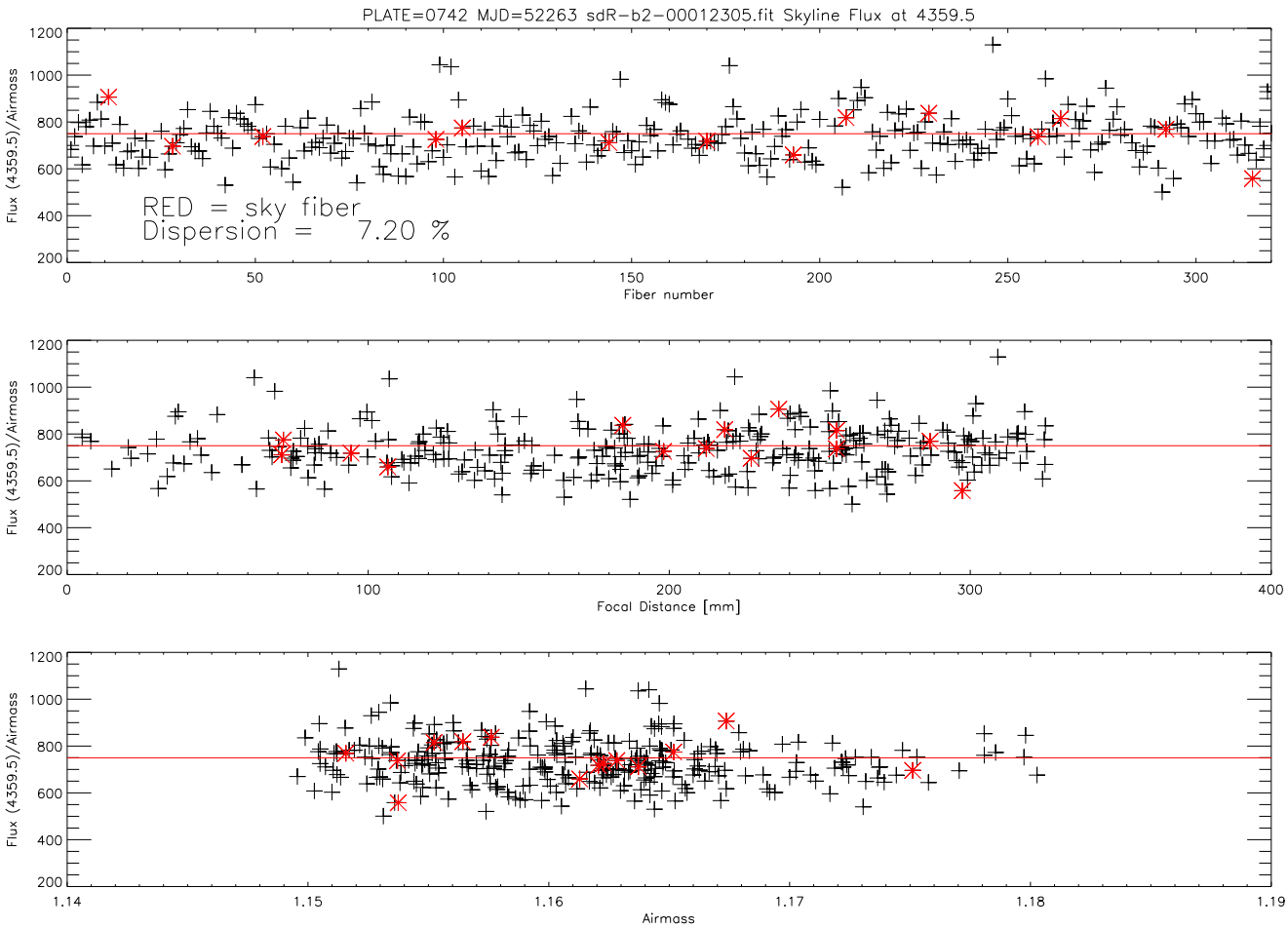

Number of sky fibers = 14
PLATE=0742 MJD=52263 sdR-b2-00012305.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

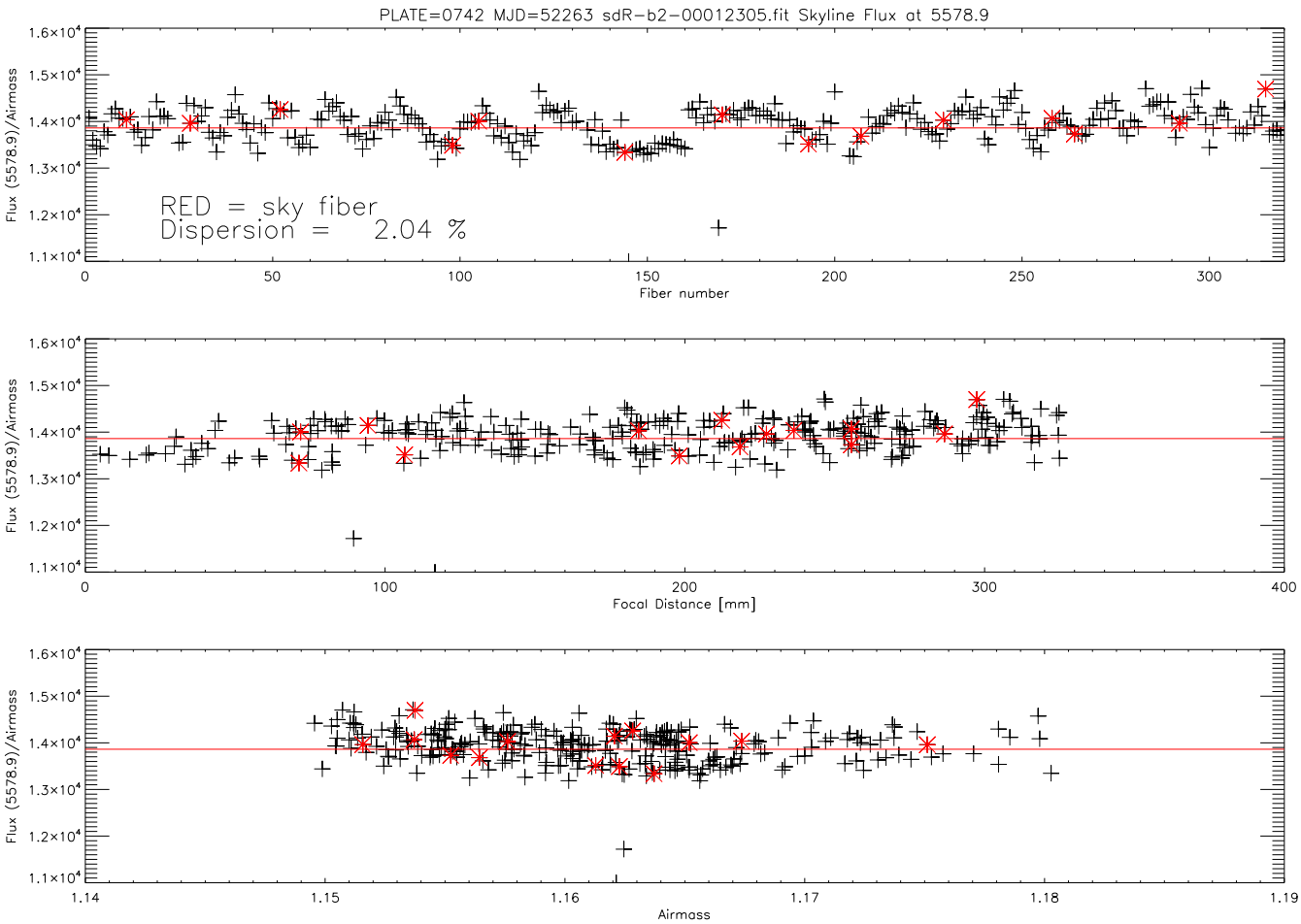

PLATE=0742 MJD=52263 sdR-b2-00012305.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

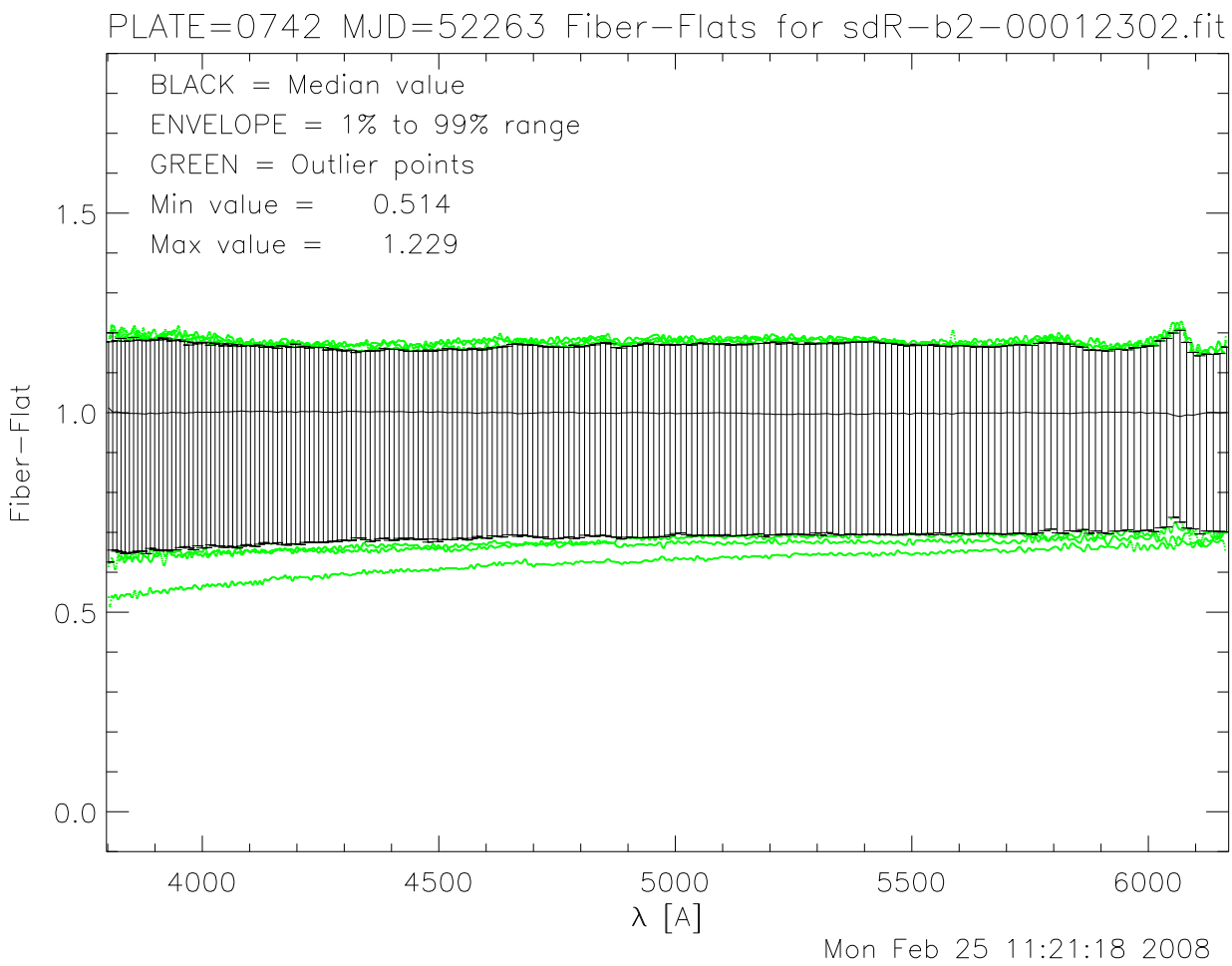

PLATE=0742 MJD=52263 sdR-b2-00012305.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

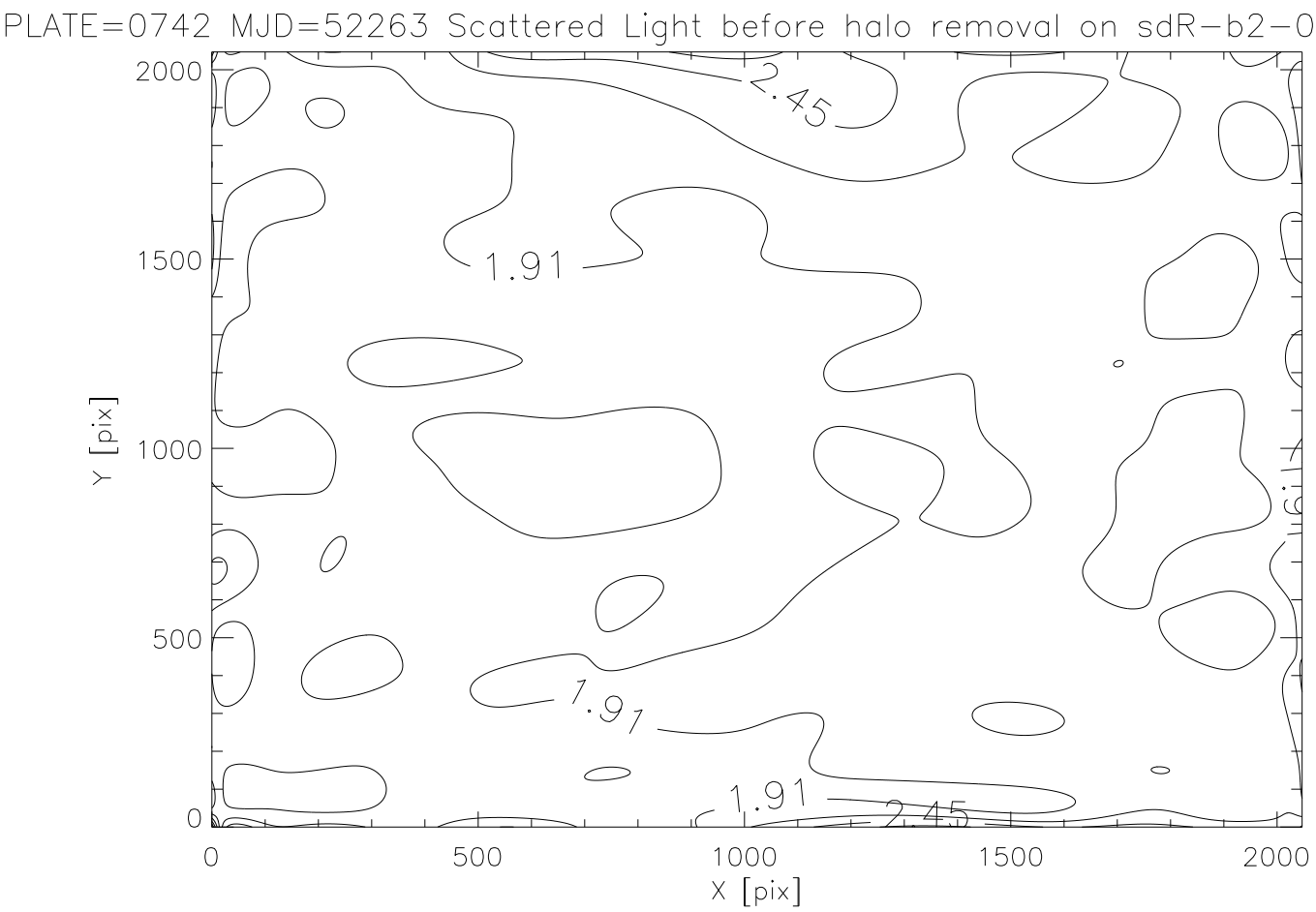

PLATE=0742 MJD=52263 sdR-b2-00012305.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

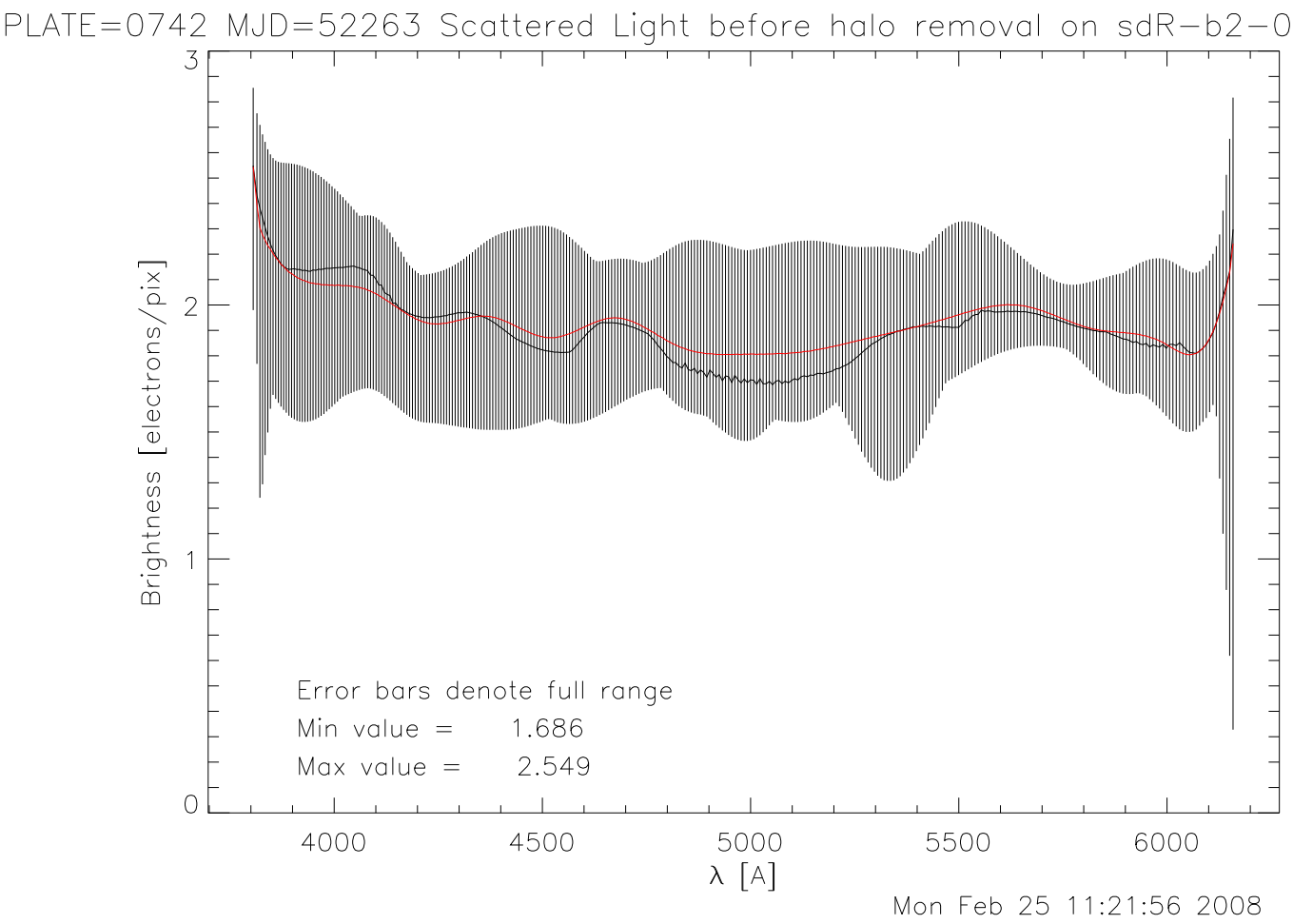

Number of sky fibers = 14
PLATE=0742 MJD=52263 sdR-b2-00012305.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

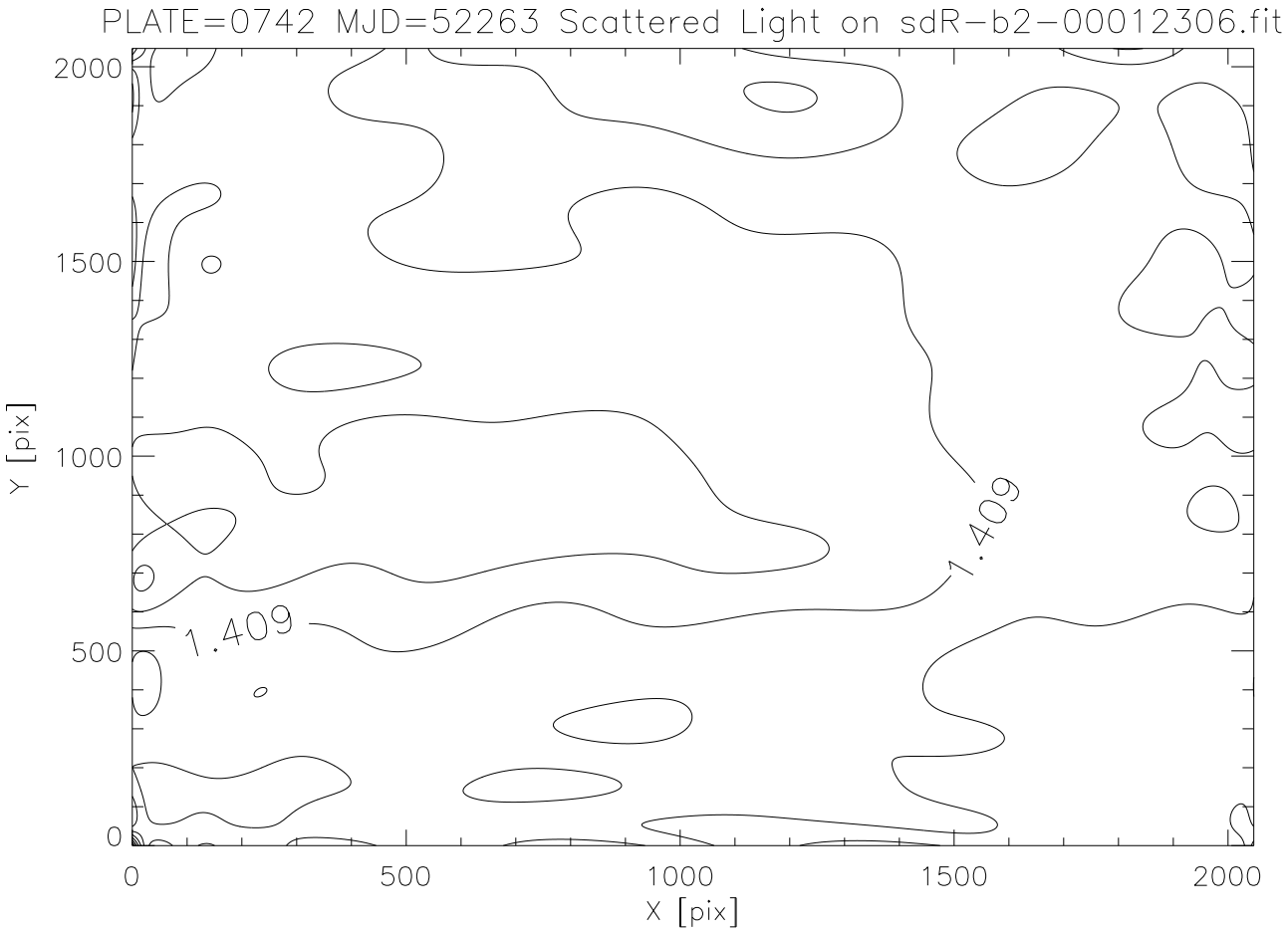

PLATE=0742 MJD=52263 sdR-b2-00012305.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 7.20 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

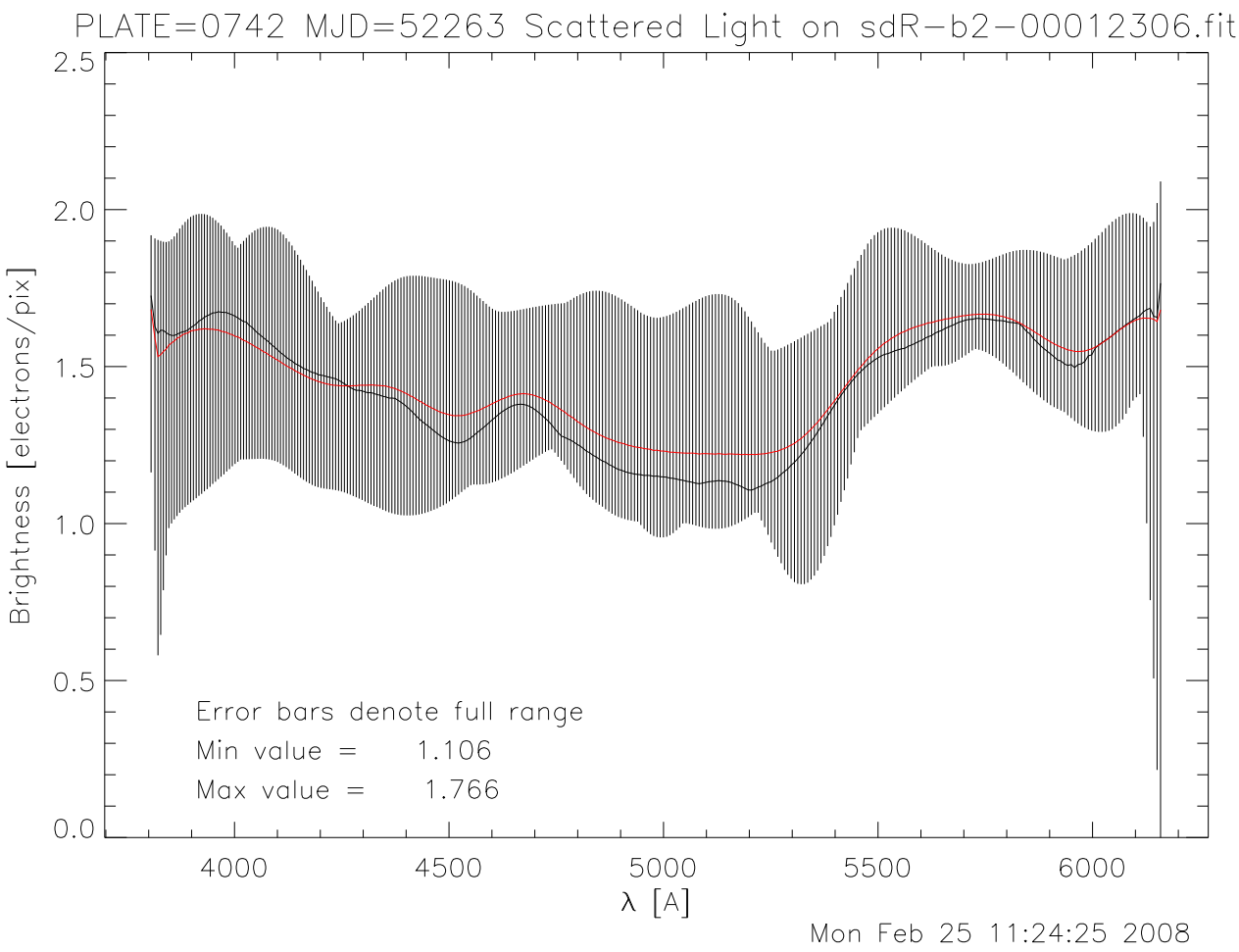

PLATE=0742 MJD=52263 sdR-b2-00012305.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.04 %
Fiber number
Focal Distance [mm]
Airmass

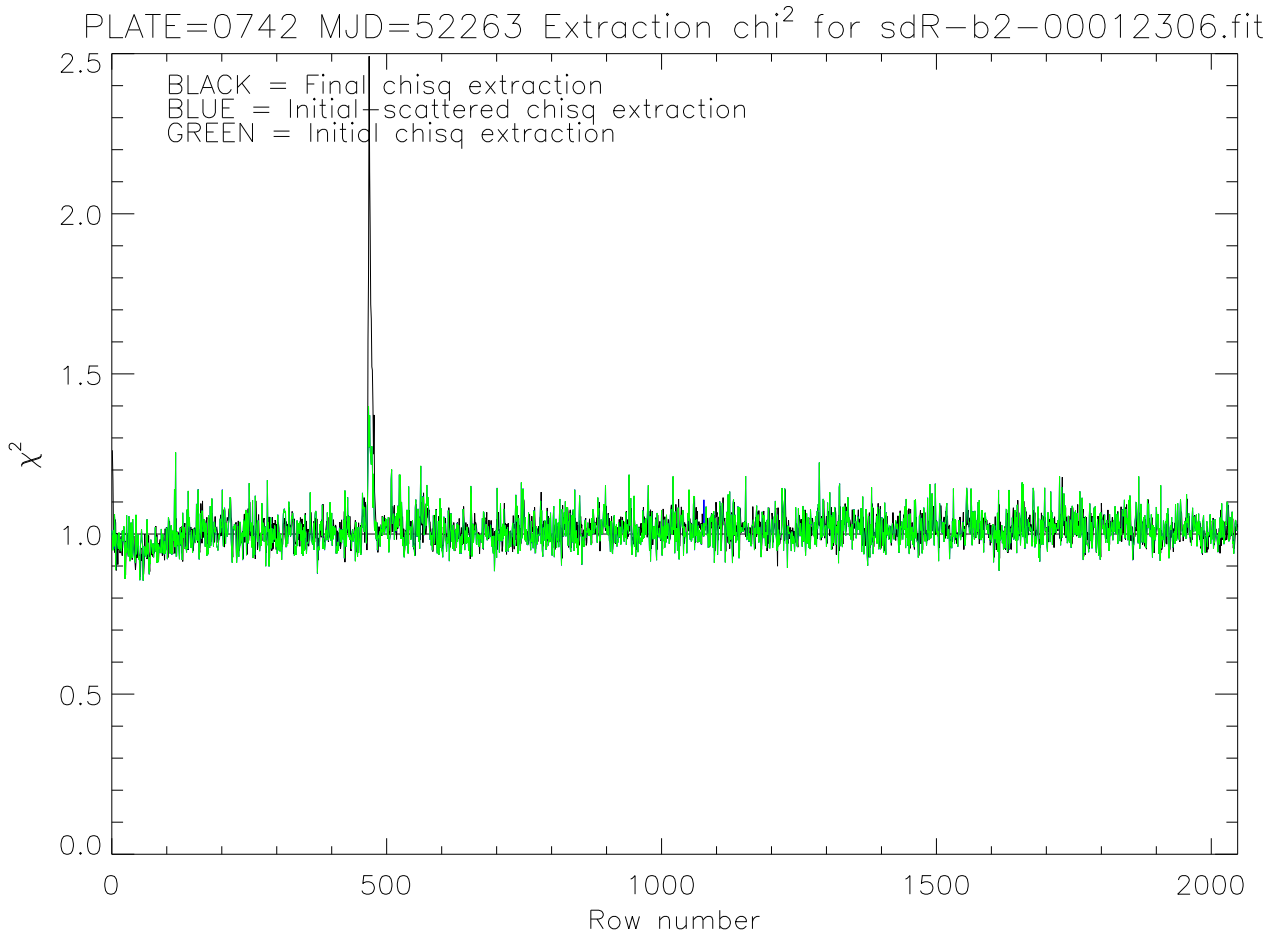

PLATE=0742 MJD=52263 Fiber-Flats for sdR-b2-00012302.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.514
Max value = 1.229
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 11:21:18 2008

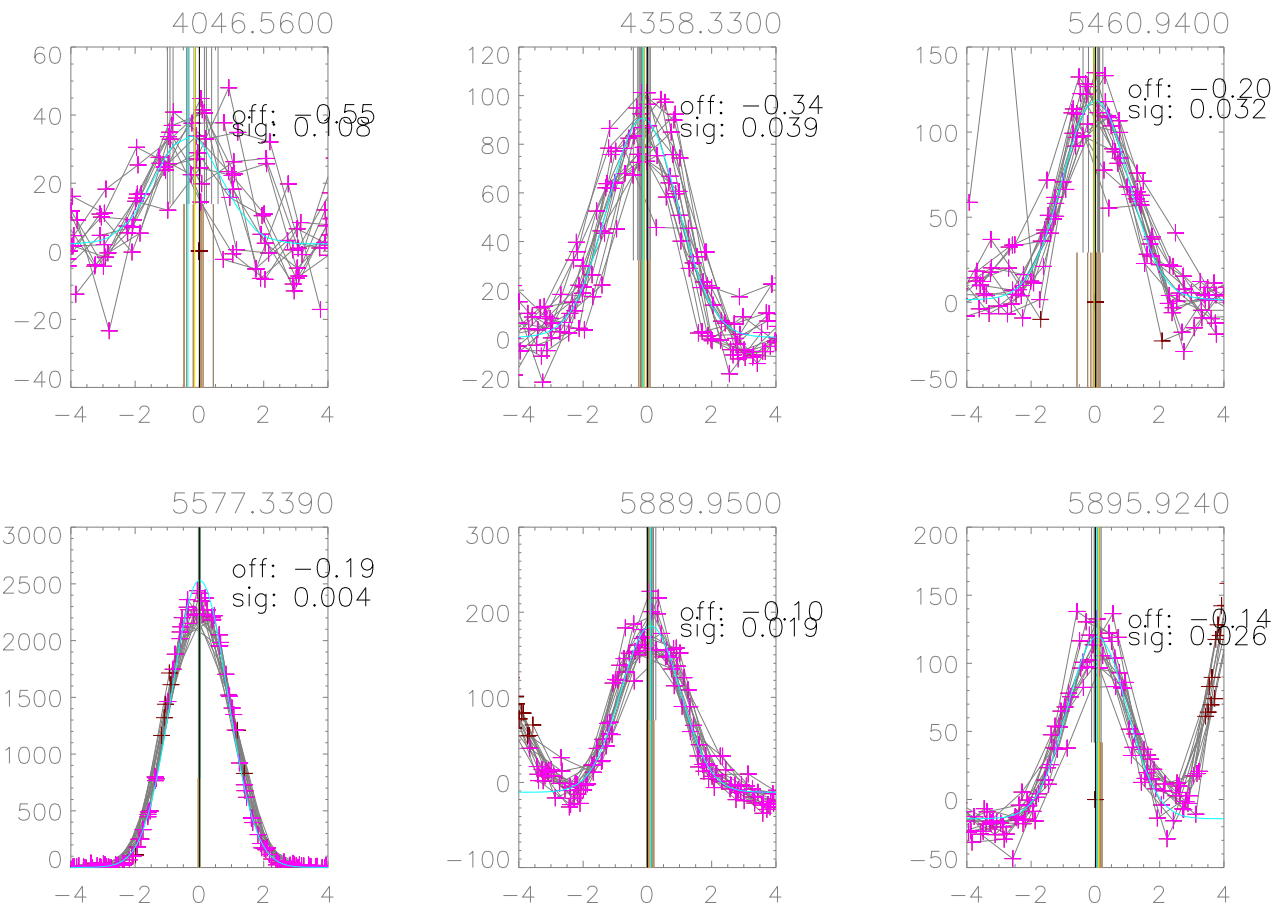

PLATE=0742 MJD=52263 Scattered Light before halo removal on sdR-b2-00012306.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
2.45
1.91
1.91
1.91
2.45

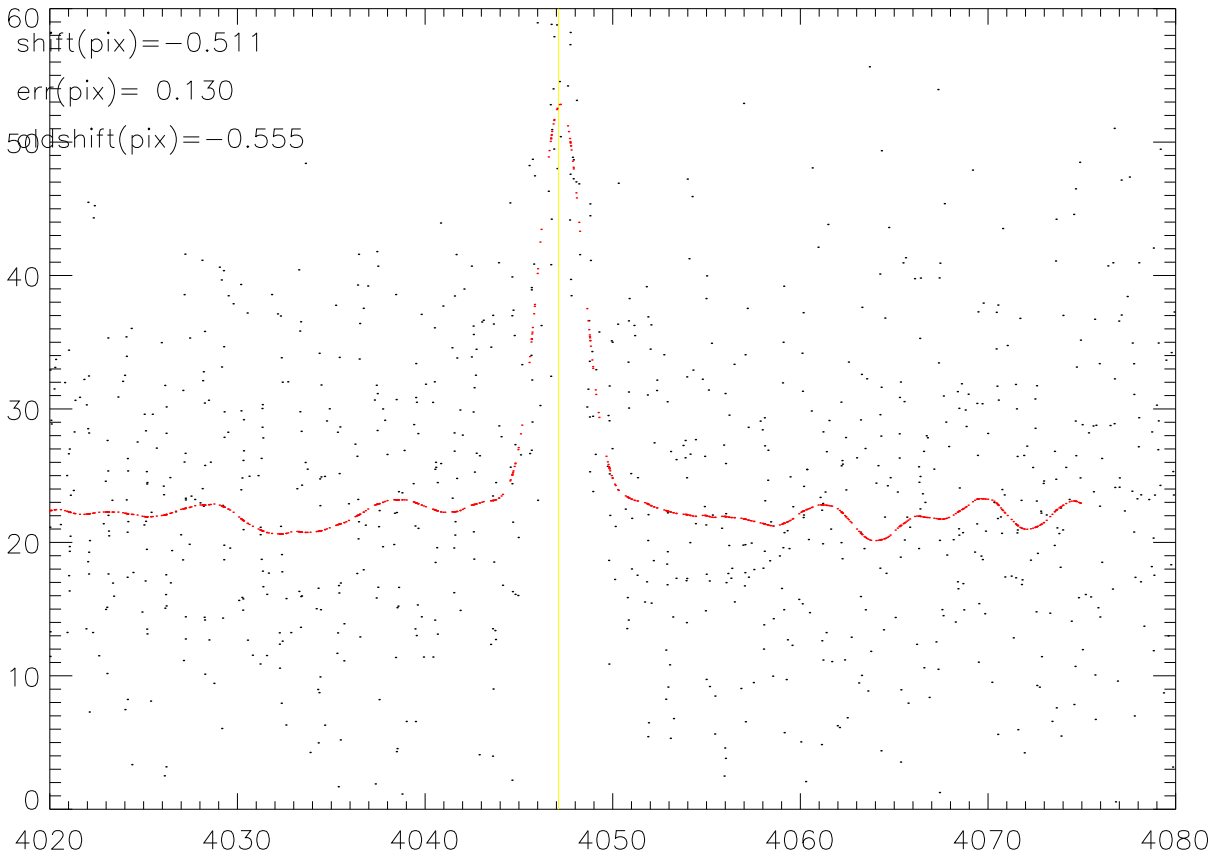

PLATE=0742 MJD=52263 Scattered Light before halo removal on sdR-b2-00012306.f
Brightness [electrons/pix]
3
2
1
0
Error bars denote full range
Min value = 1.686
Max value = 2.549
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 11:21:56 2008

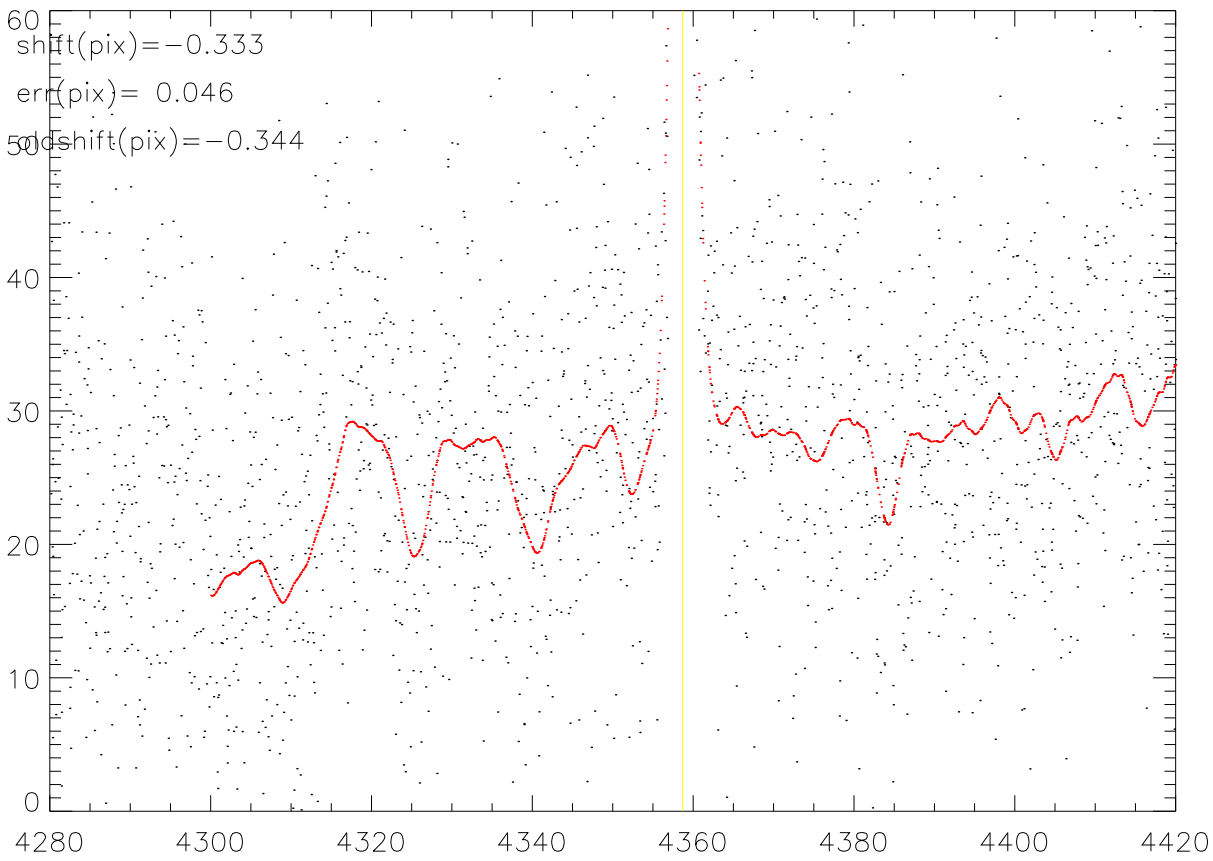

PLATE=0742 MJD=52263 Scattered Light on sdR-b2-00012306.fit
2000
1500
1000
500
0
Y [pix]
1.409
1.409
0
500
1000
1500
2000
X [pix]

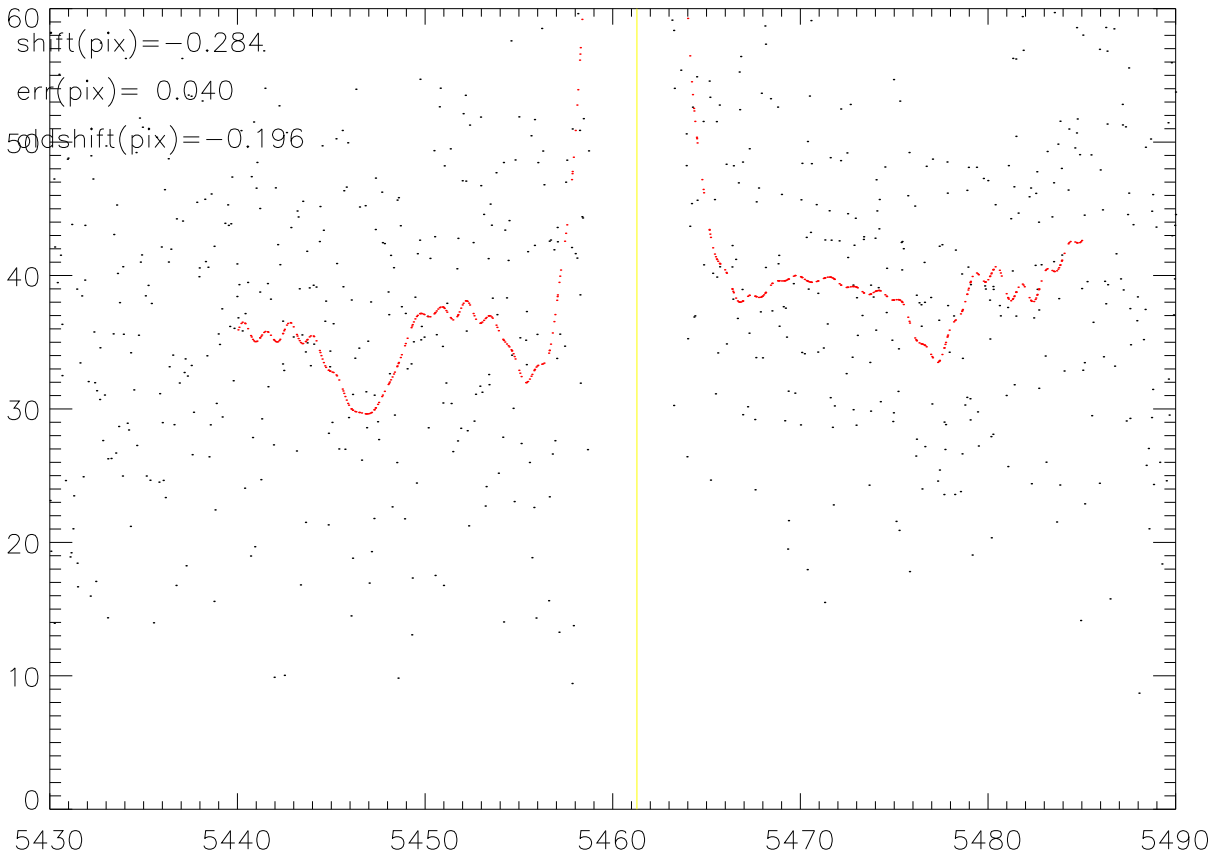

PLATE=0742 MJD=52263 Scattered Light on sdR-b2-00012306.fit
Brightness [electrons/pix]
2.5
2.0
1.5
1.0
0.5
0.0
Error bars denote full range
Min value = 1.106
Max value = 1.766
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 11:24:25 2008

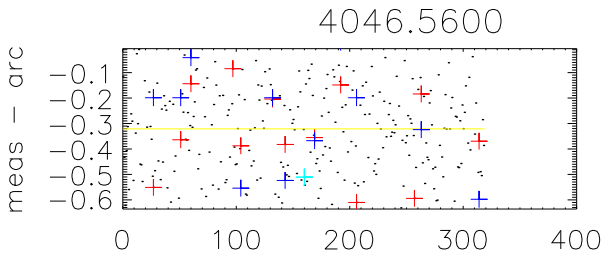

PLATE=0742 MJD=52263 Extraction chi^2 for sdR-b2-00012306.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

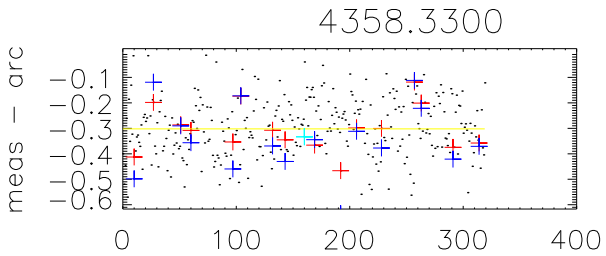

4046.5600
off: −0.55
sig: 0.108
4358.3300
off: −0.34
sig: 0.039
5460.9400
off: −0.20
sig: 0.032
5577.3390
off: −0.19
sig: 0.004
5889.9500
off: −0.10
sig: 0.019
5895.9240
off: −0.14
sig: 0.026

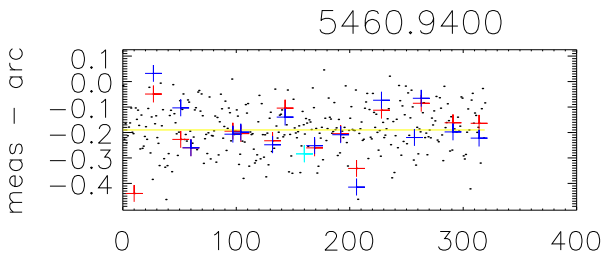

shift(pix)=−0.511
err(pix)= 0.130
oldshift(pix)=−0.555
60
50
40
30
20
10
0
4020
4030
4040
4050
4060
4070
4080

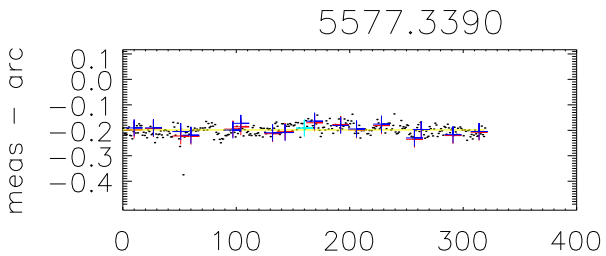

shift(pix)=−0.333
err(pix)= 0.046
oldshift(pix)=−0.344
60
50
40
30
20
10
0
4280
4300
4320
4340
4360
4380
4400
4420

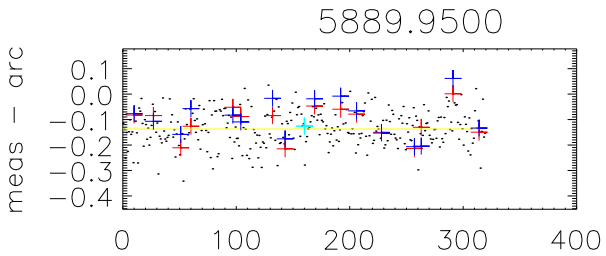

shift(pix)=−0.284
err(pix)= 0.040
oldshift(pix)=−0.196
60
50
40
30
20
10
0
5430
5440
5450
5460
5470
5480
5490

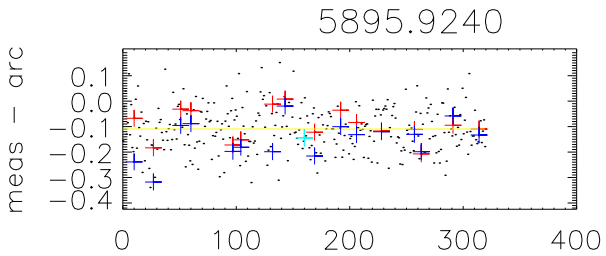

4046.5600
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

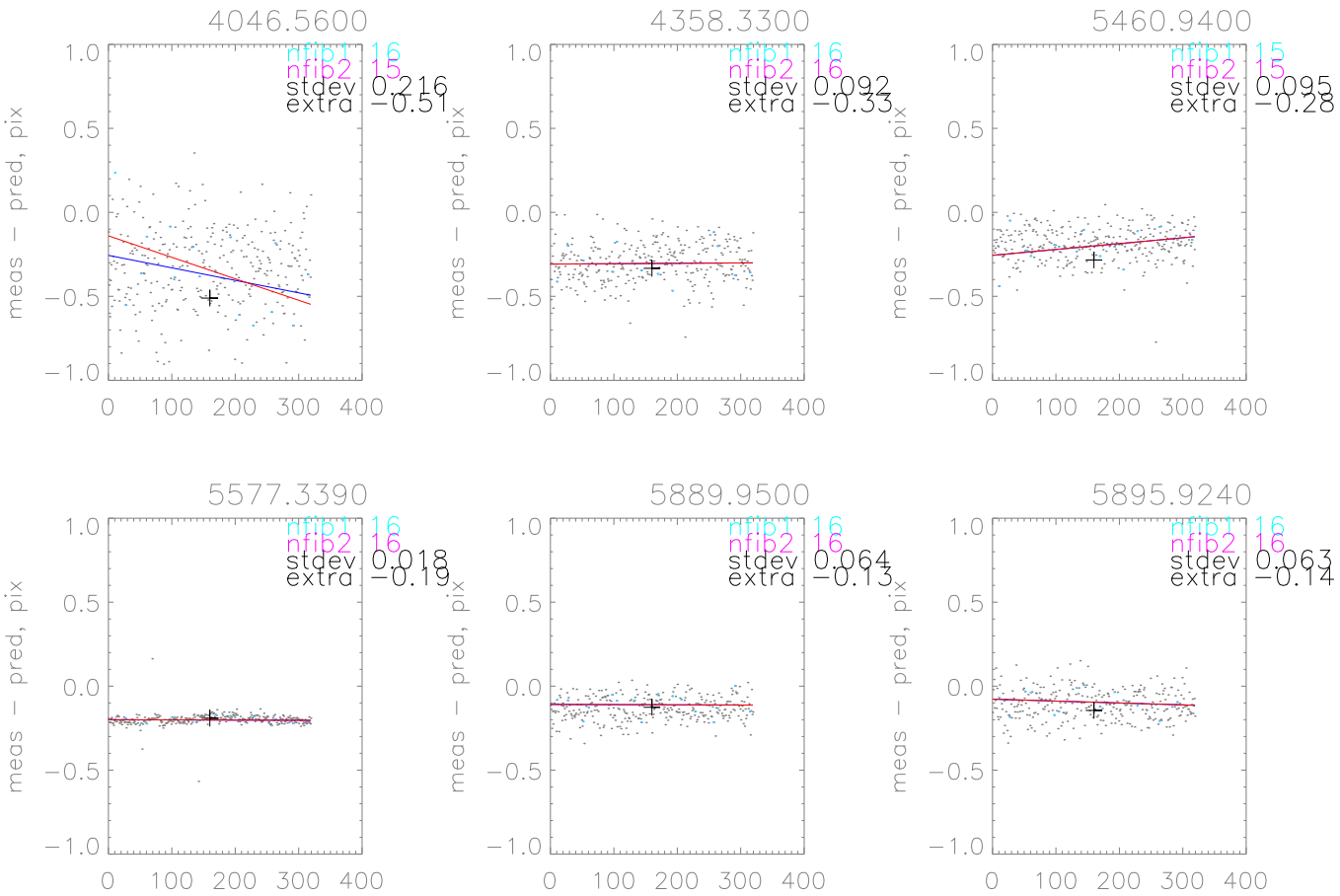

4358.3300
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

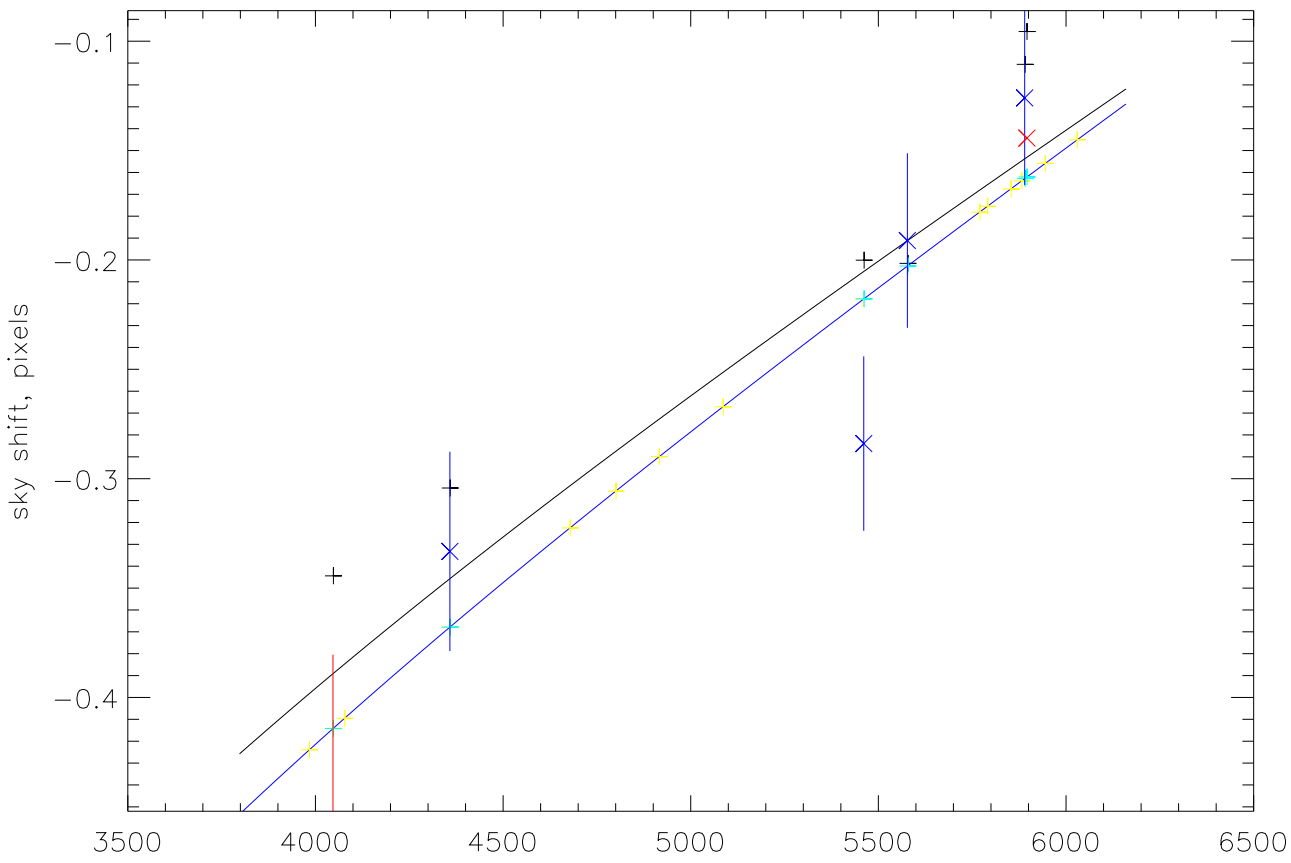

5460.9400
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

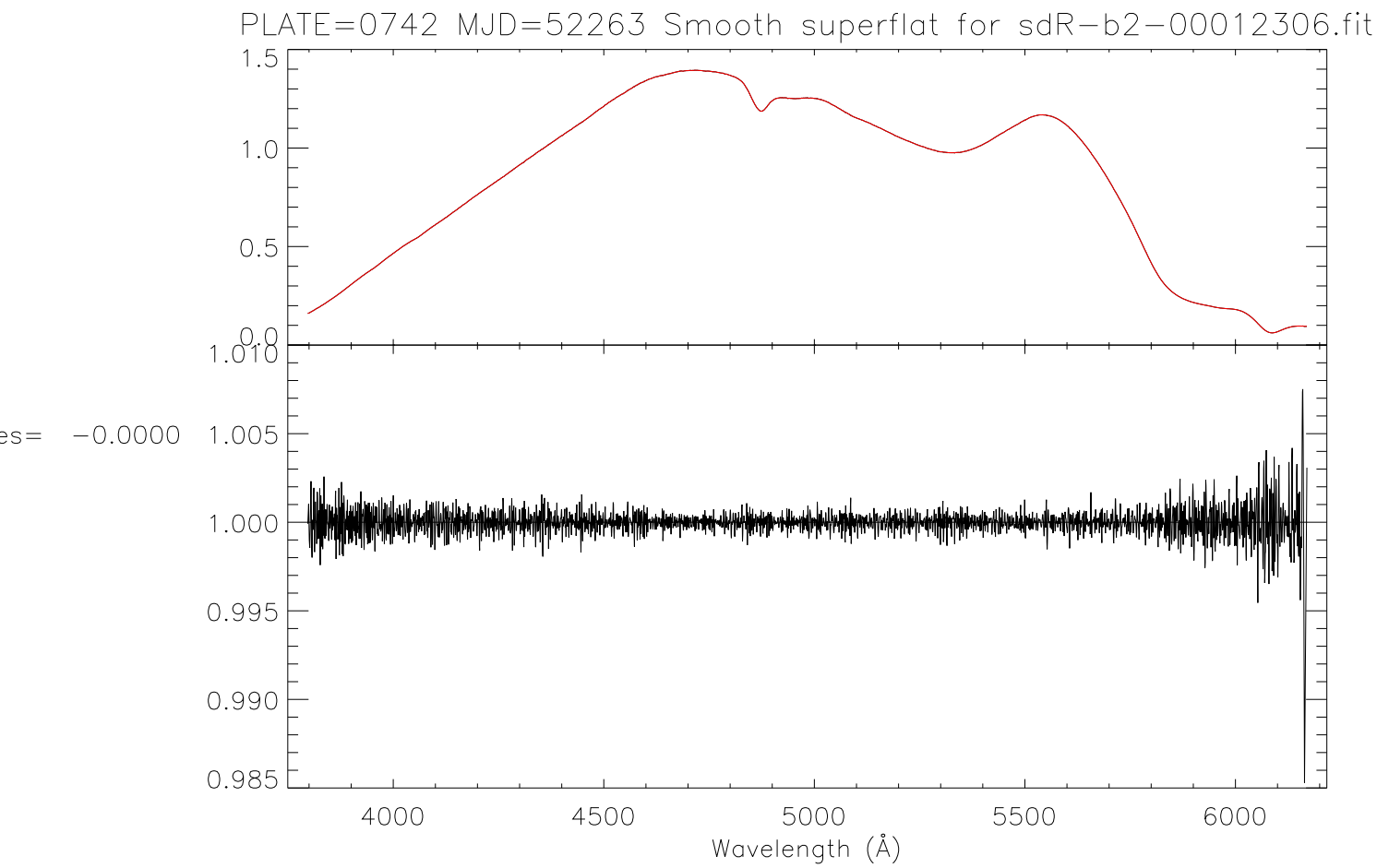

5577.3390
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

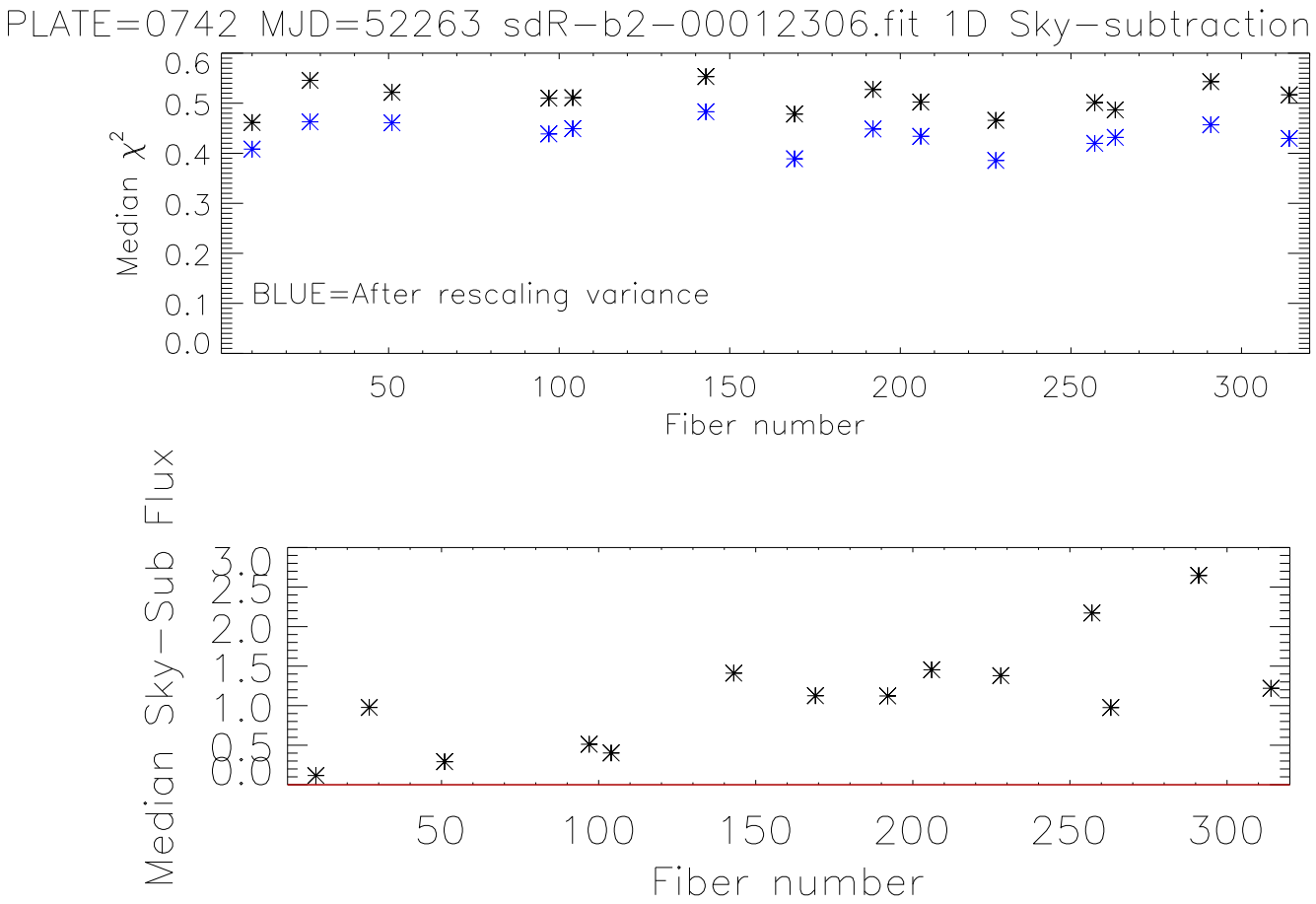

5889.9500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

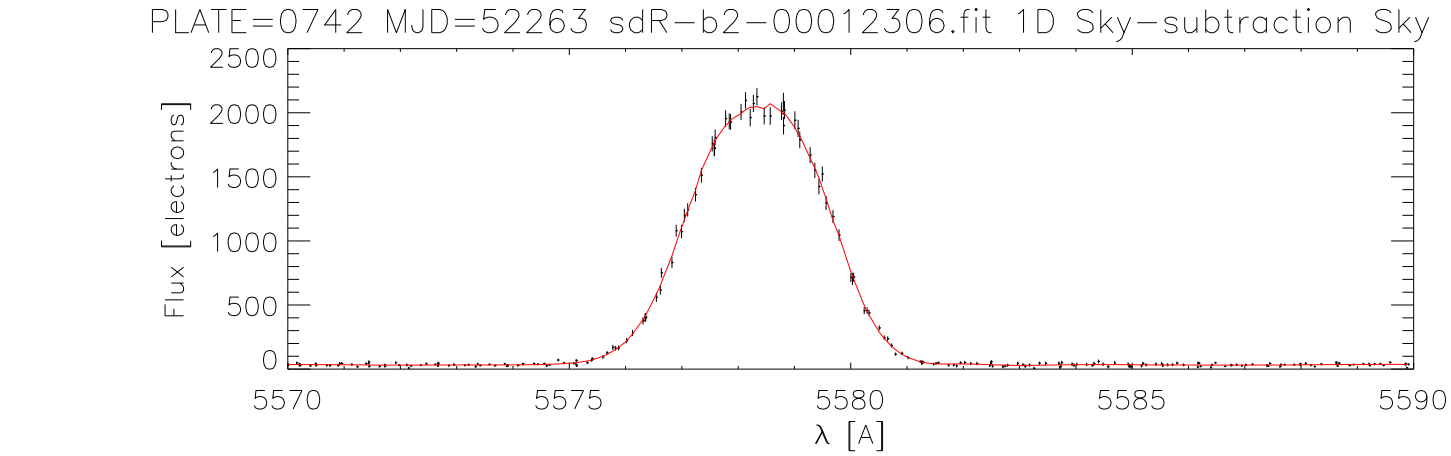

5895.9240
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

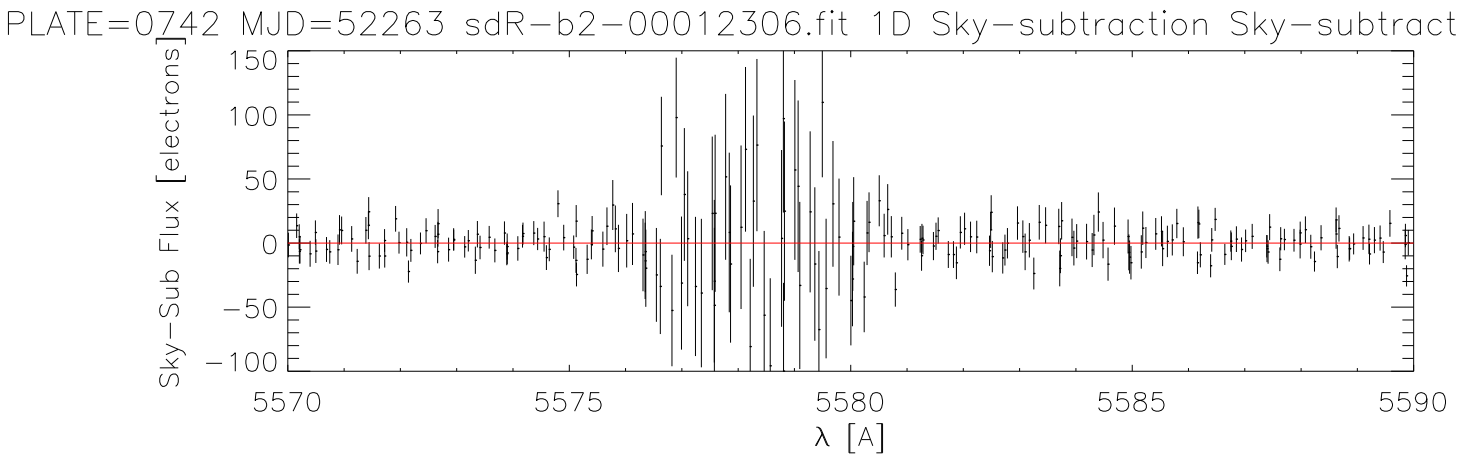

4046.5600
nfib1 16
nfib2 15
stdev 0.216
extra −0.51
4358.3300
nfib1 16
nfib2 16
stdev 0.092
extra −0.33
5460.9400
nfib1 15
nfib2 15
stdev 0.095
extra −0.28
5577.3390
nfib1 16
nfib2 16
stdev 0.018
extra −0.19
5889.9500
nfib1 16
nfib2 16
stdev 0.064
extra −0.13
5895.9240
nfib1 16
nfib2 16
stdev 0.063
extra −0.14
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

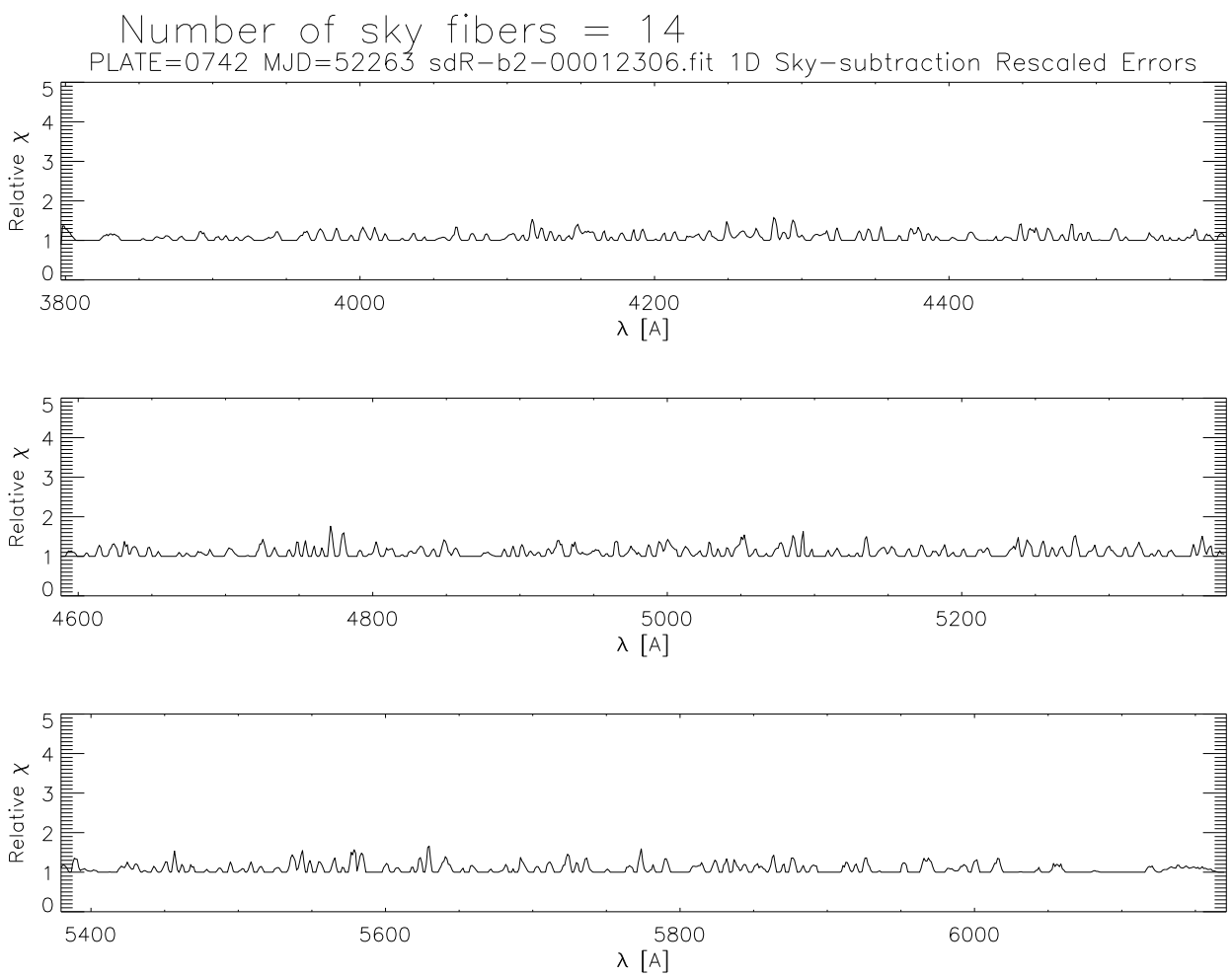

−0.1
−0.2
−0.3
−0.4
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

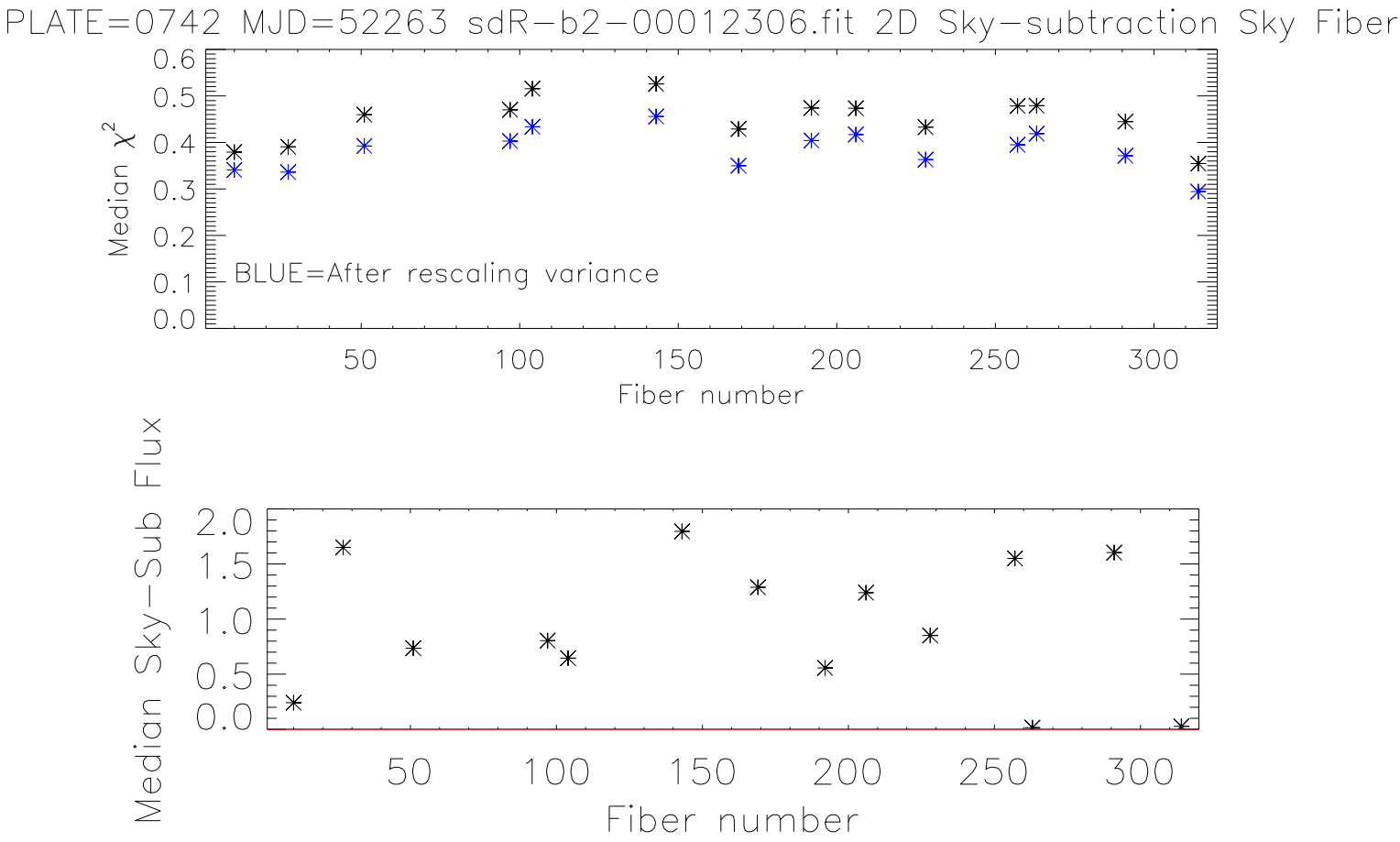

PLATE=0742 MJD=52263 Smooth superflat for sdR-b2-00012306.fit
1.5
1.0
0.5
0.0
es= -0.0000
1.010
1.005
1.000
0.995
0.990
0.985
4000
4500
5000
5500
6000
Wavelength (Å)

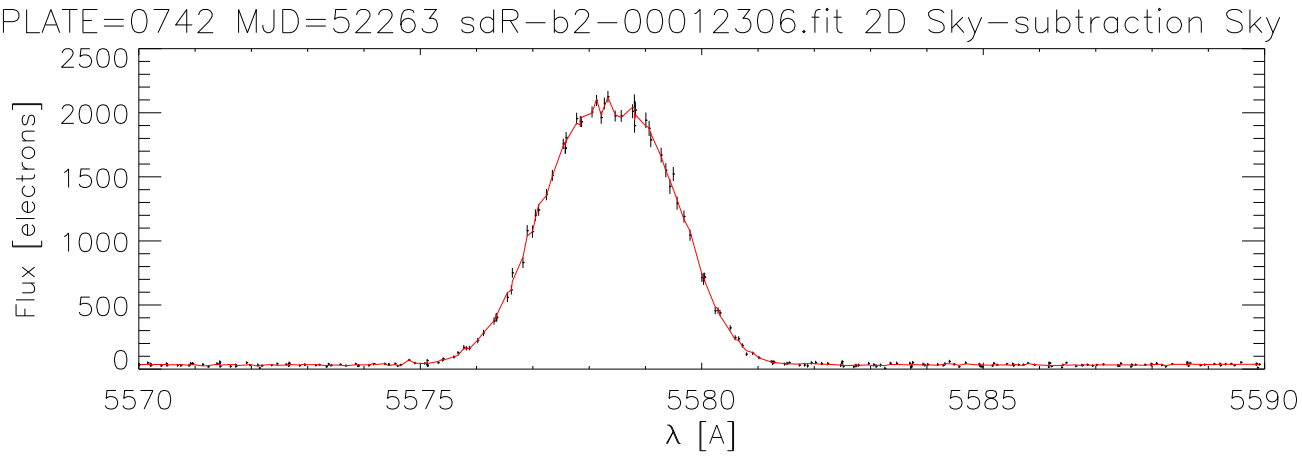

PLATE=0742 MJD=52263 sdR-b2-00012306.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

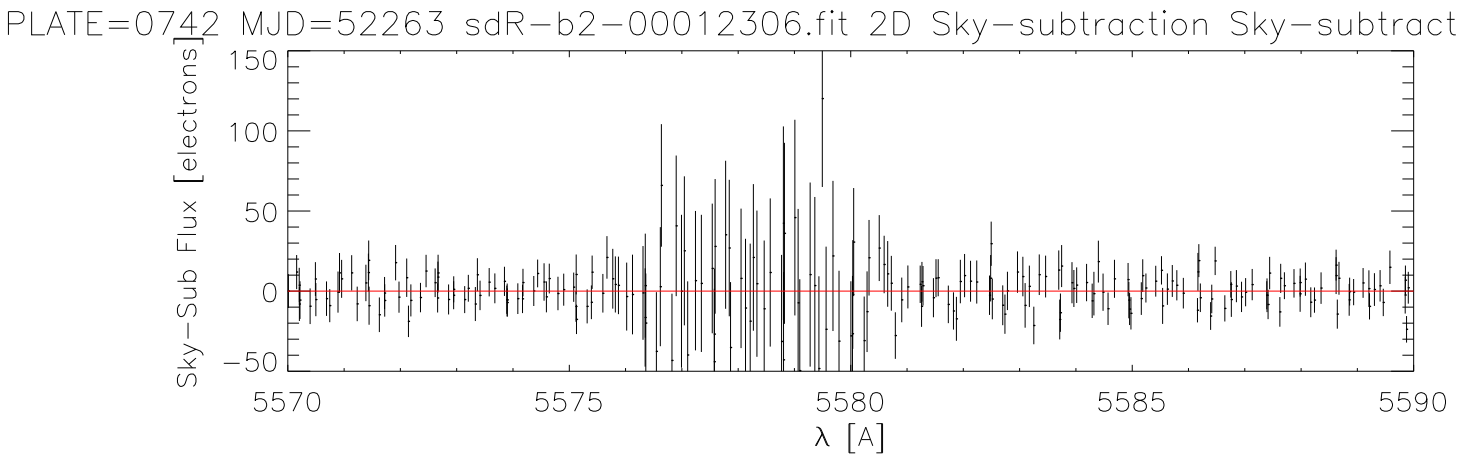

PLATE=0742 MJD=52263 sdR-b2-00012306.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

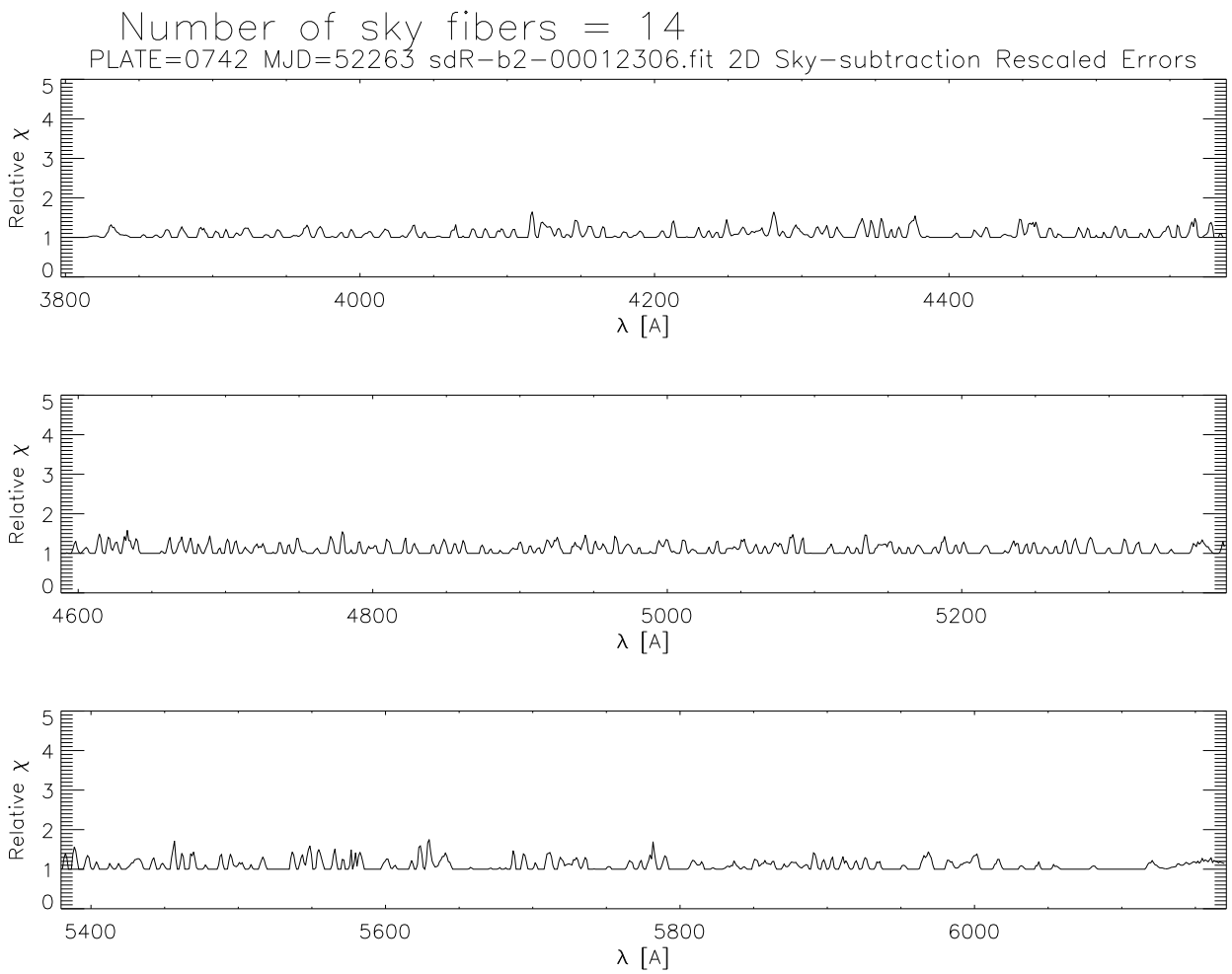

PLATE=0742 MJD=52263 sdR-b2-00012306.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
5570
5575
5580
5585
5590
λ [A]

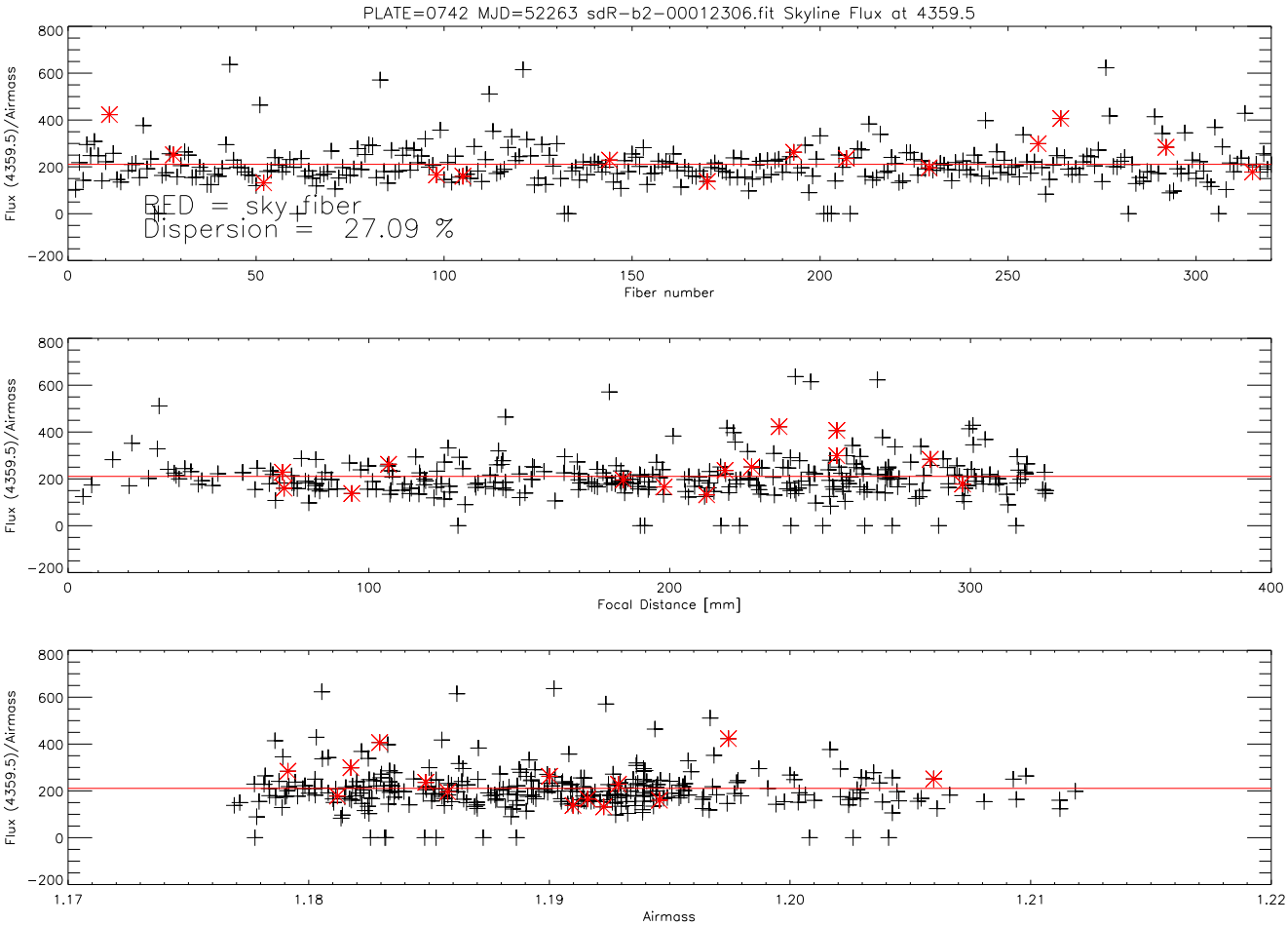

Number of sky fibers = 14
PLATE=0742 MJD=52263 sdR-b2-00012306.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

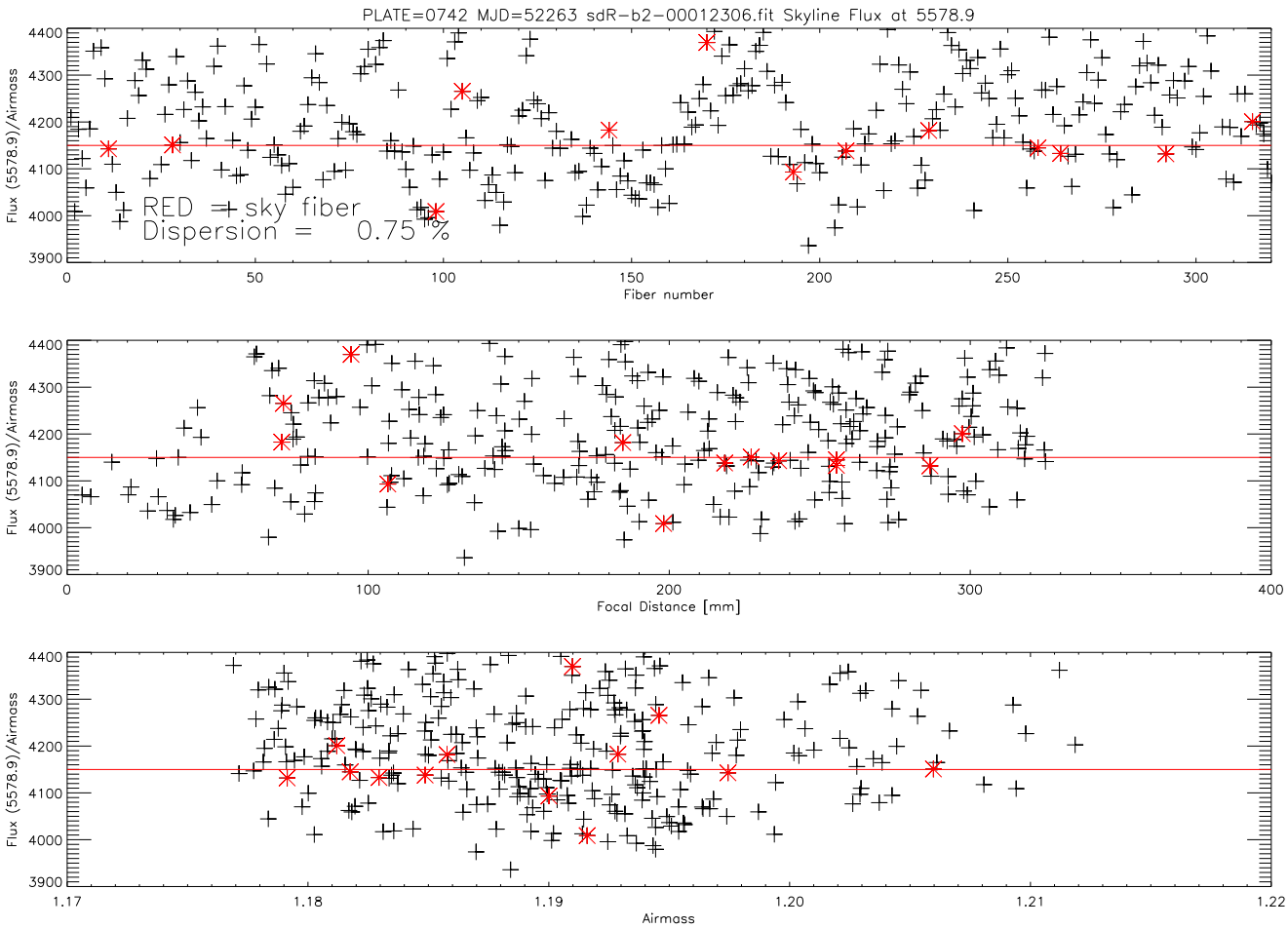

PLATE=0742 MJD=52263 sdR-b2-00012306.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
0.0
0.5
1.0
1.5
2.0
50
100
150
200
250
300
Fiber number

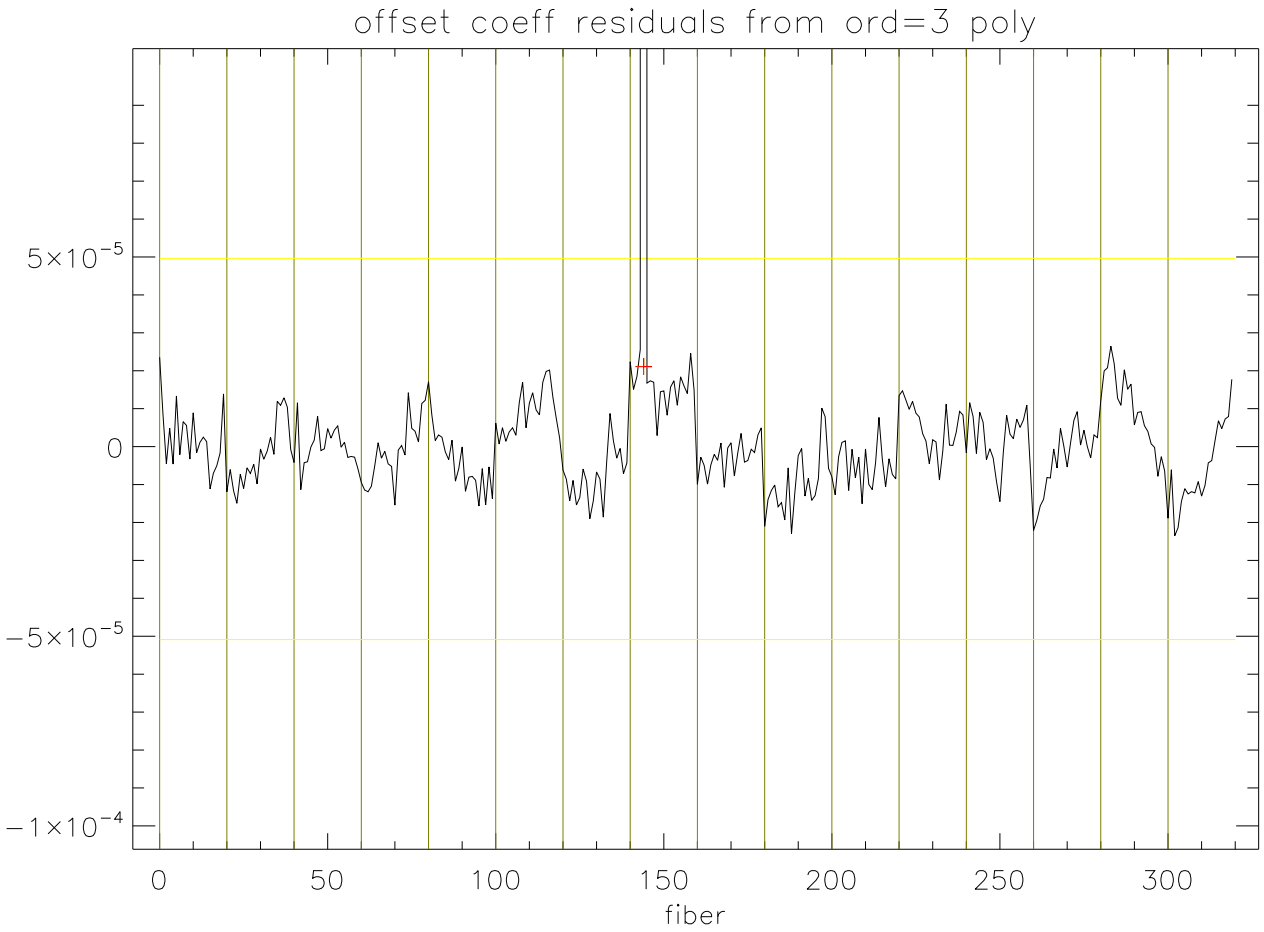

PLATE=0742 MJD=52263 sdR-b2-00012306.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

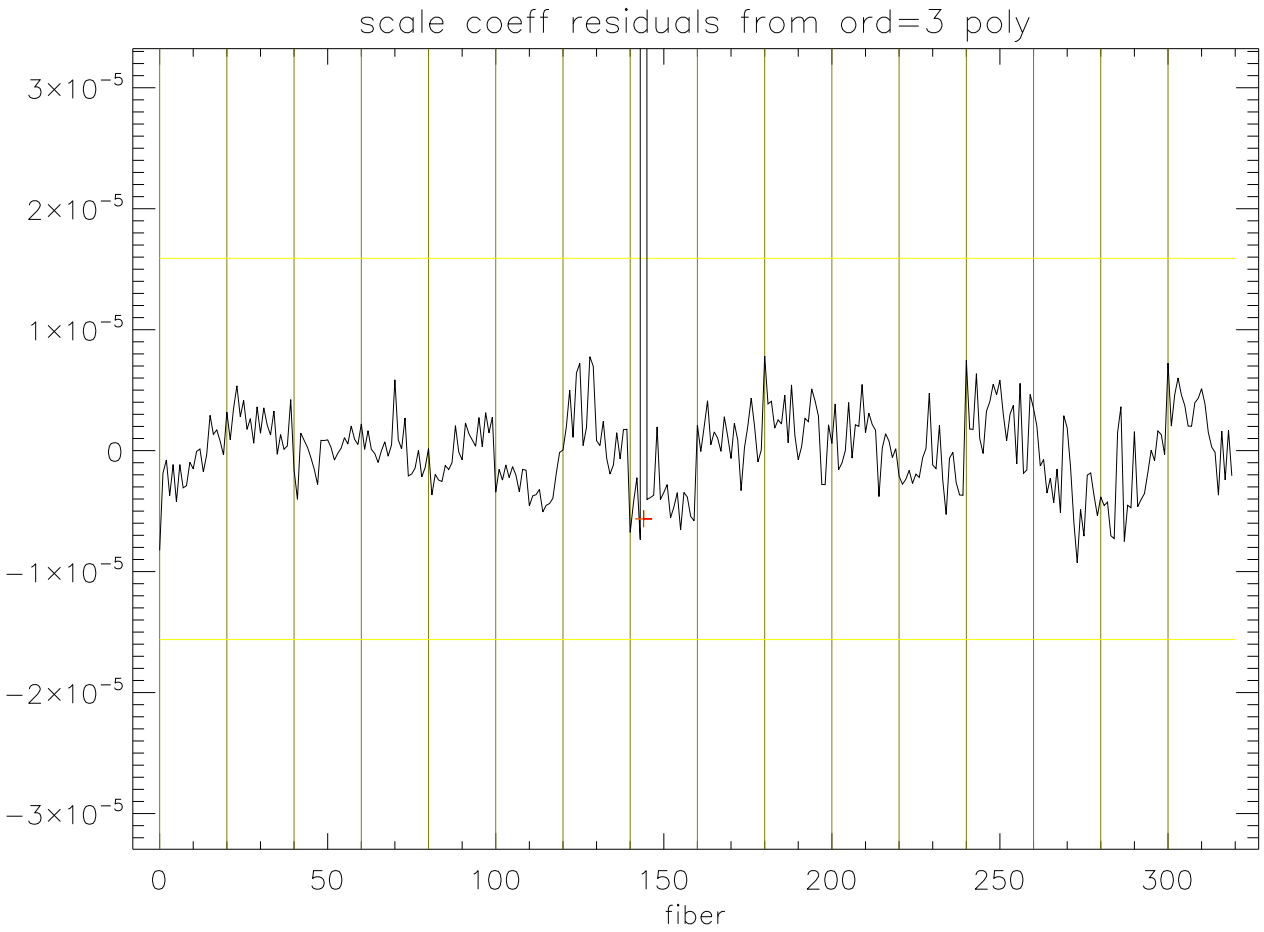

PLATE=0742 MJD=52263 sdR-b2-00012306.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
5570
5575
5580
5585
5590
λ [A]

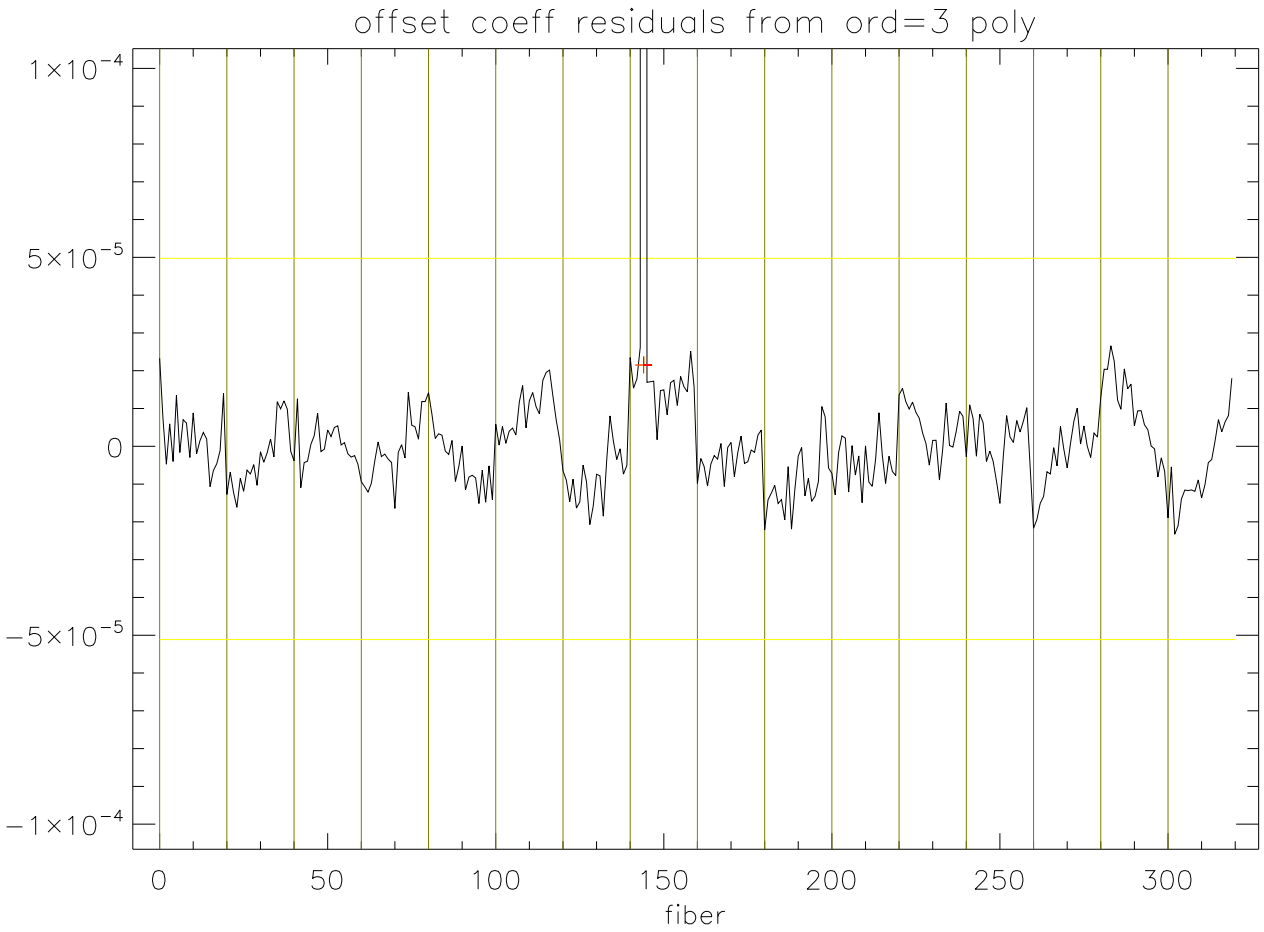

Number of sky fibers = 14
PLATE=0742 MJD=52263 sdR-b2-00012306.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

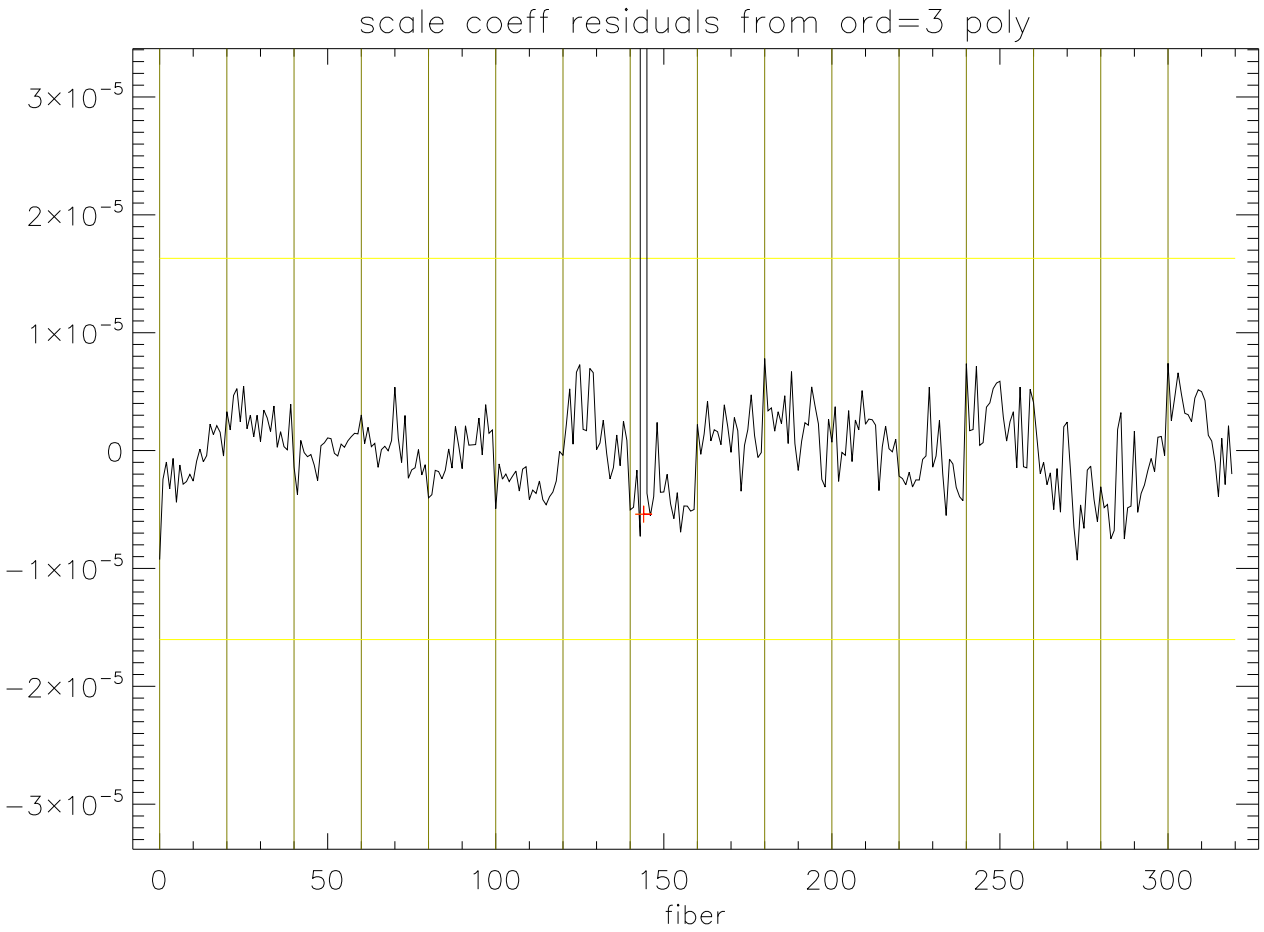

PLATE=0742 MJD=52263 sdR-b2-00012306.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 27.09 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

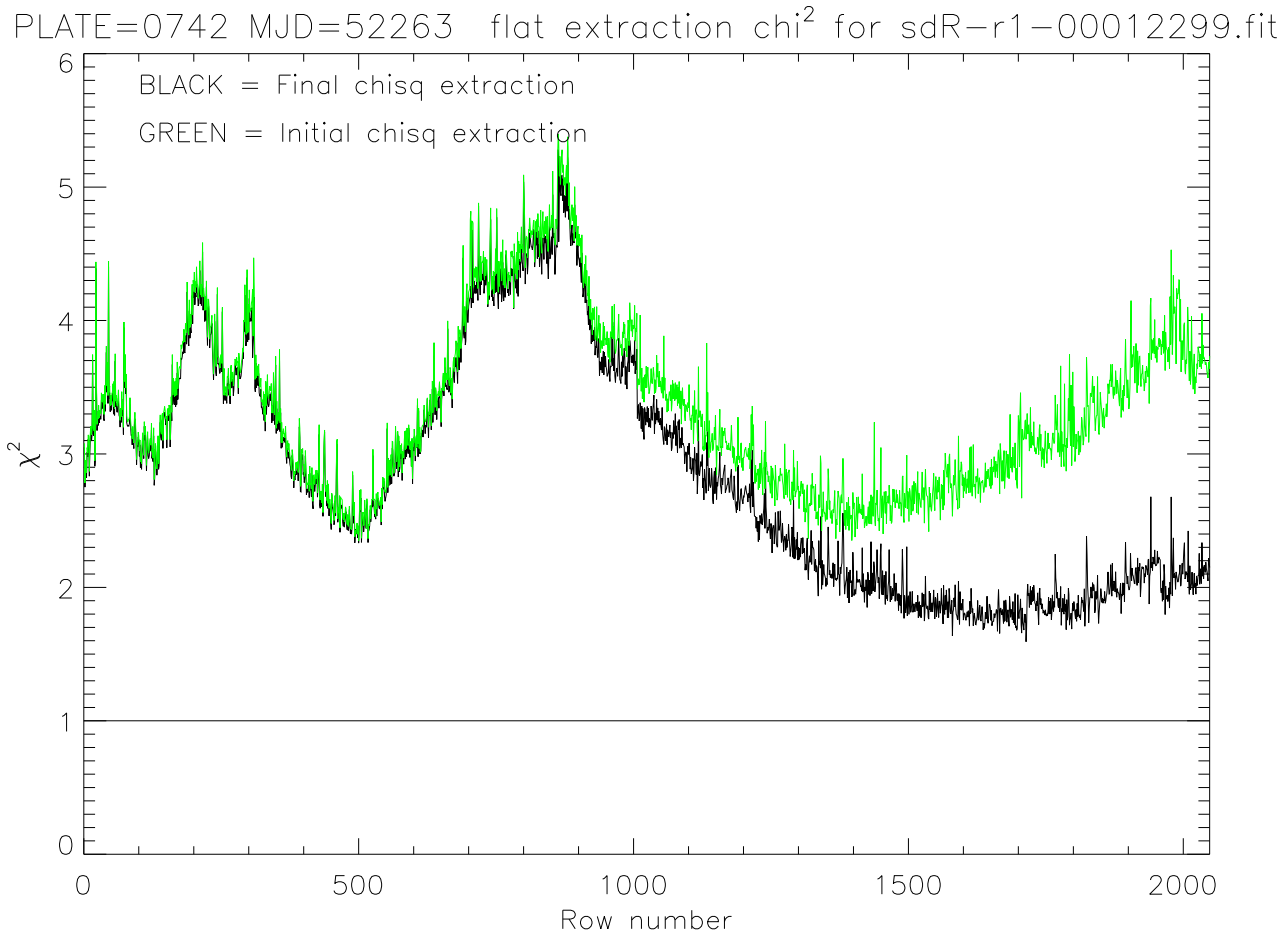

PLATE=0742 MJD=52263 sdR-b2-00012306.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 0.75 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

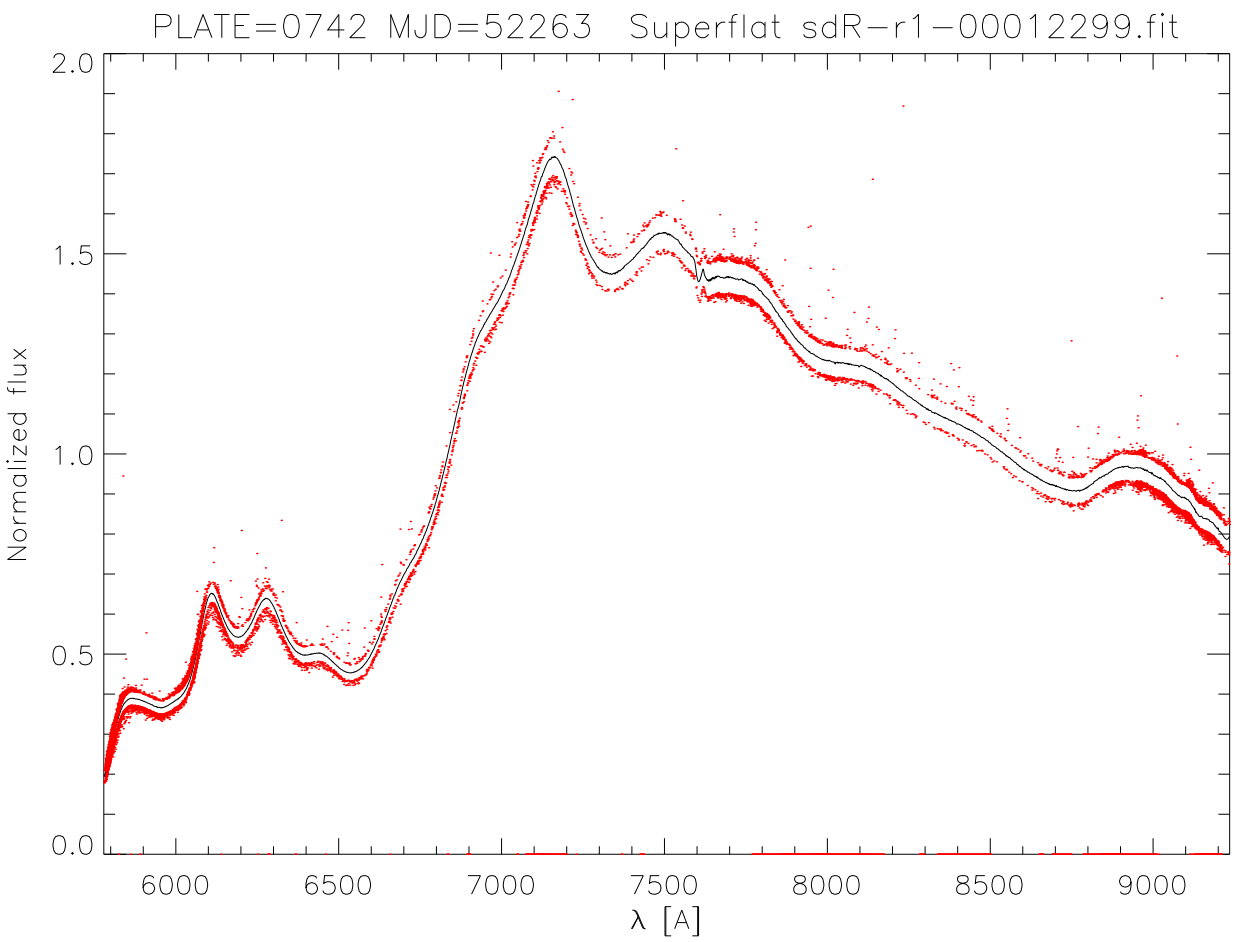

offset coeff residuals from ord=3 poly
5×10⁻⁵
0
−5×10⁻⁵
−1×10⁻⁴
0
50
100
150
200
250
300
fiber

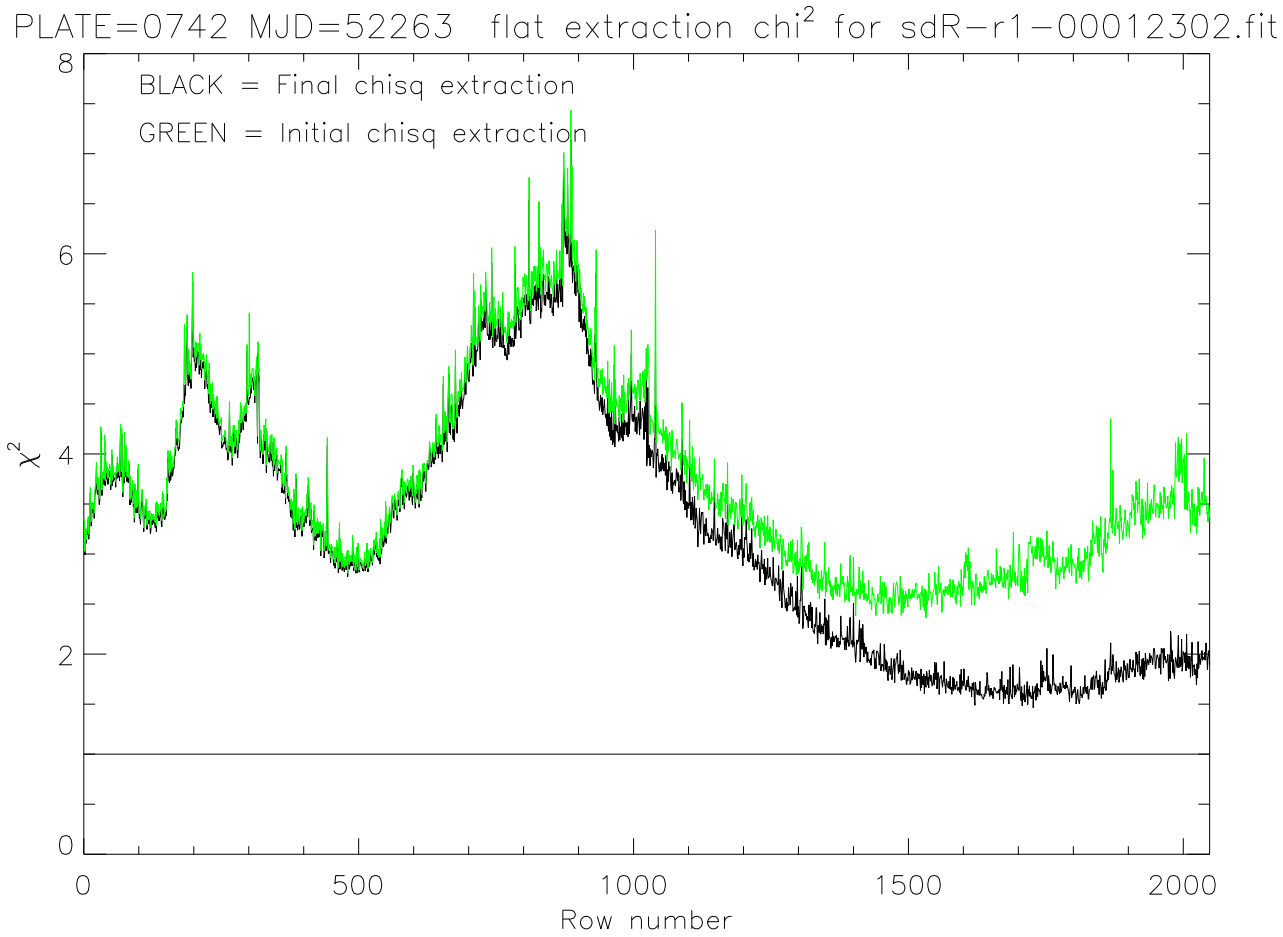

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

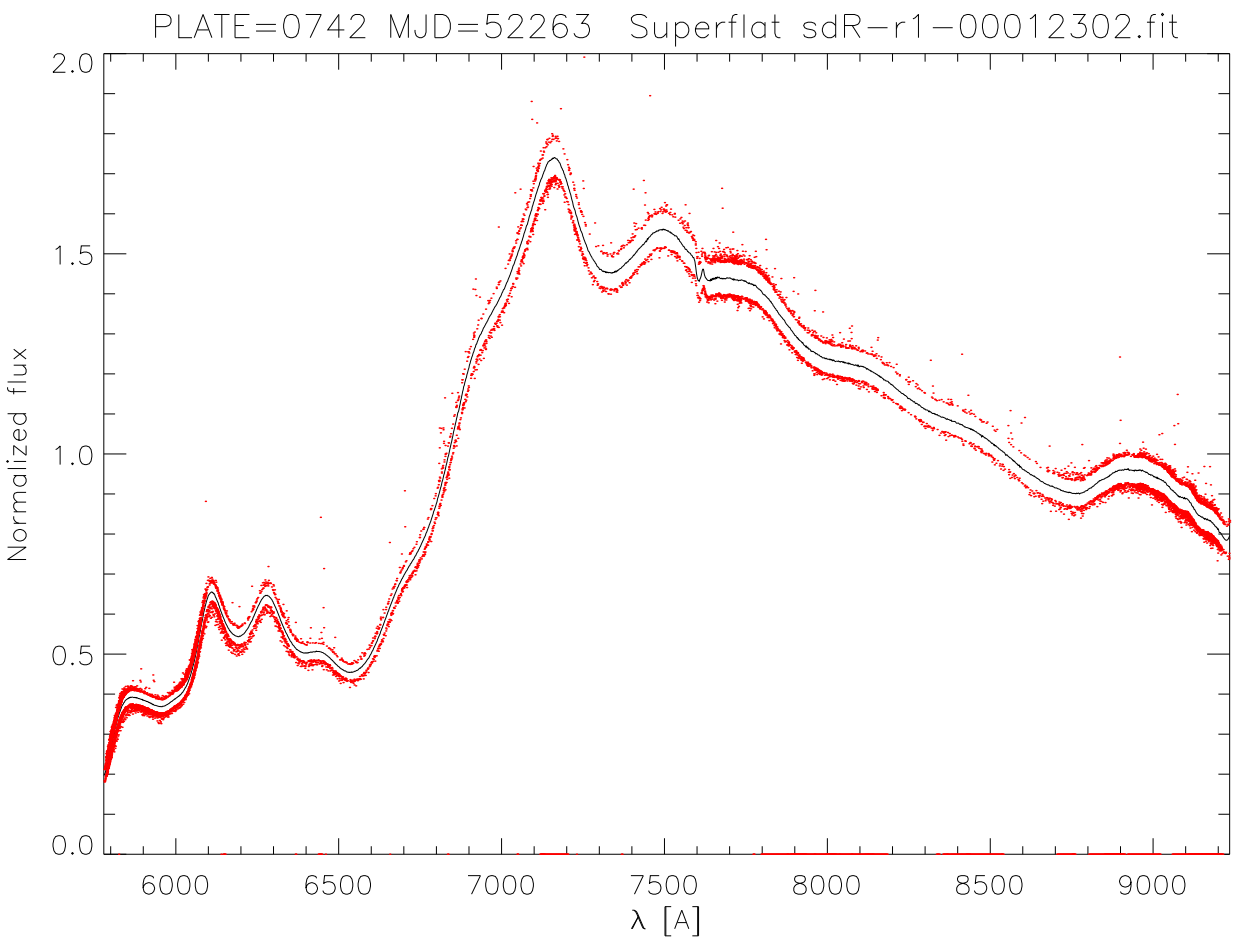

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

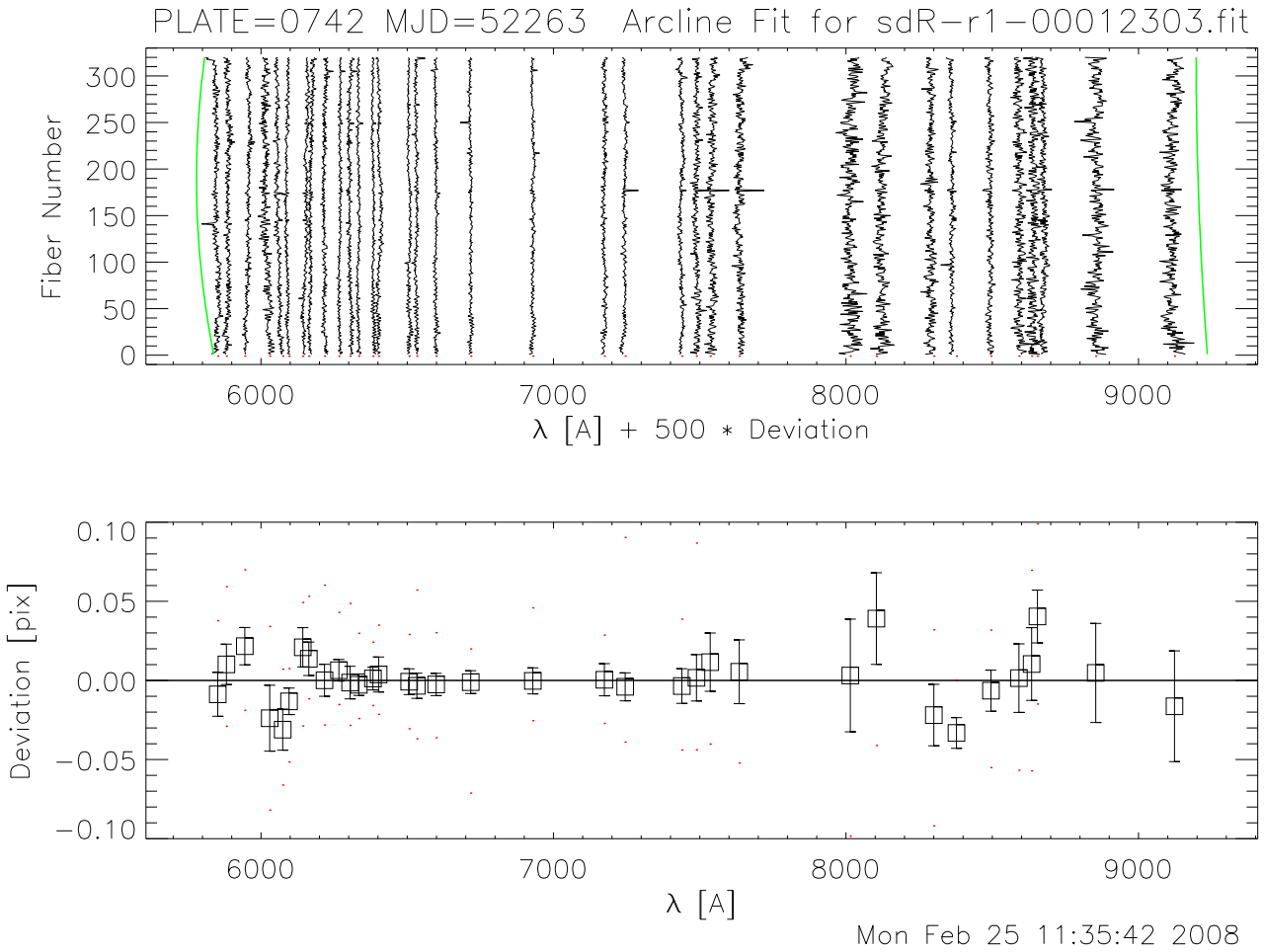

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

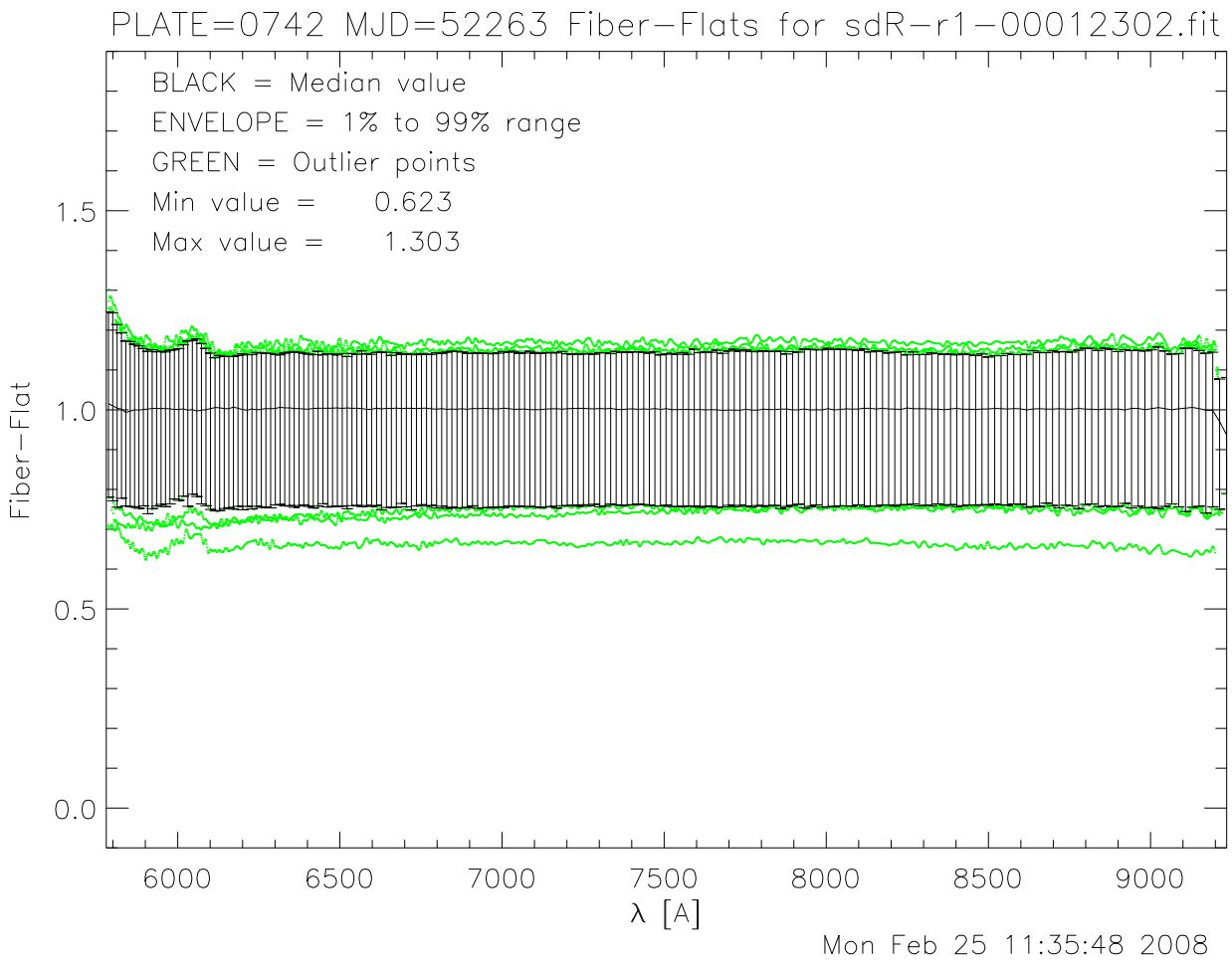

PLATE=0742 MJD=52263 flat extraction chi^2 for sdR−r1−00012299.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
6
0
500
1000
1500
2000

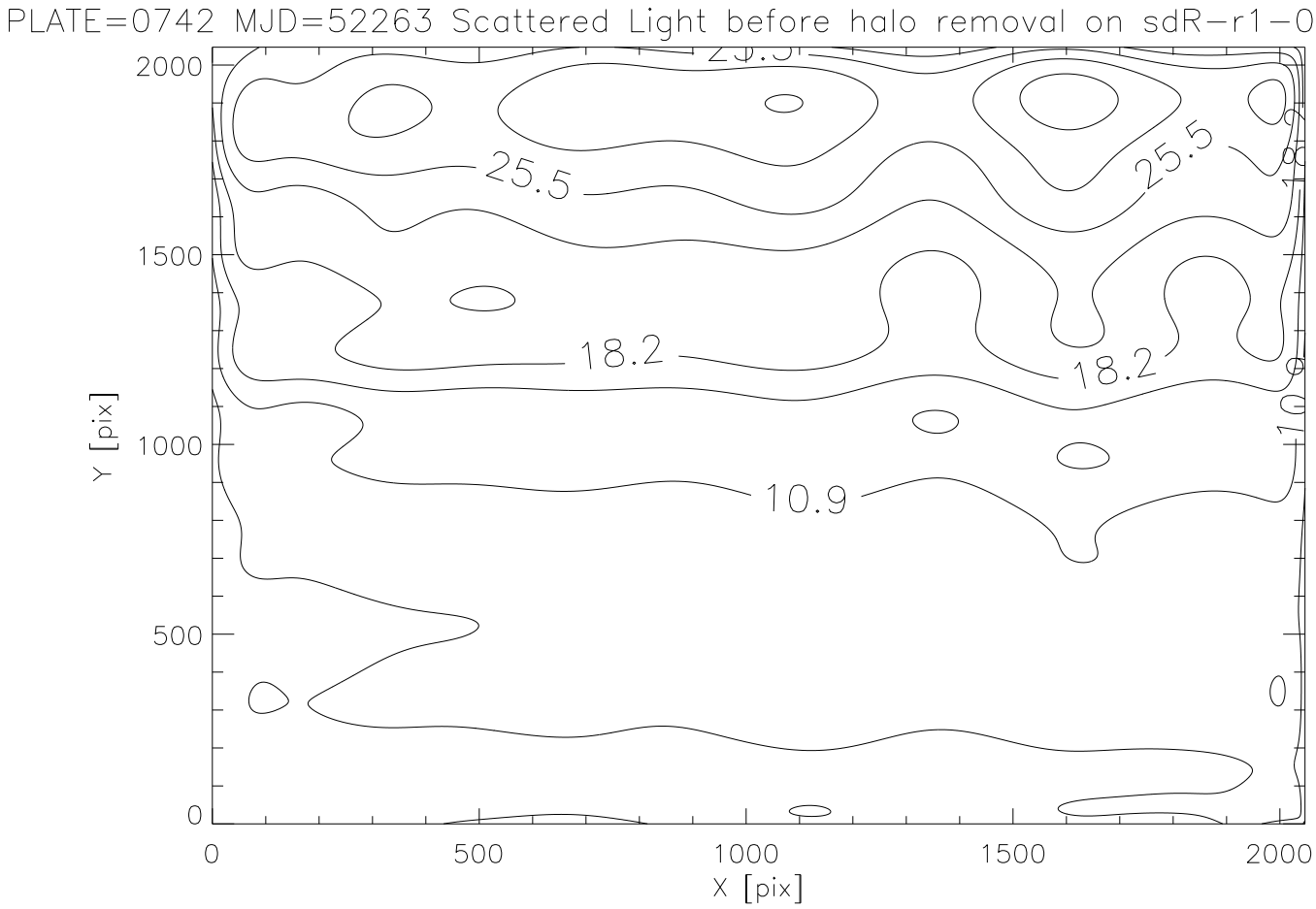

PLATE=0742 MJD=52263 Superflat sdR-r1-00012299.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

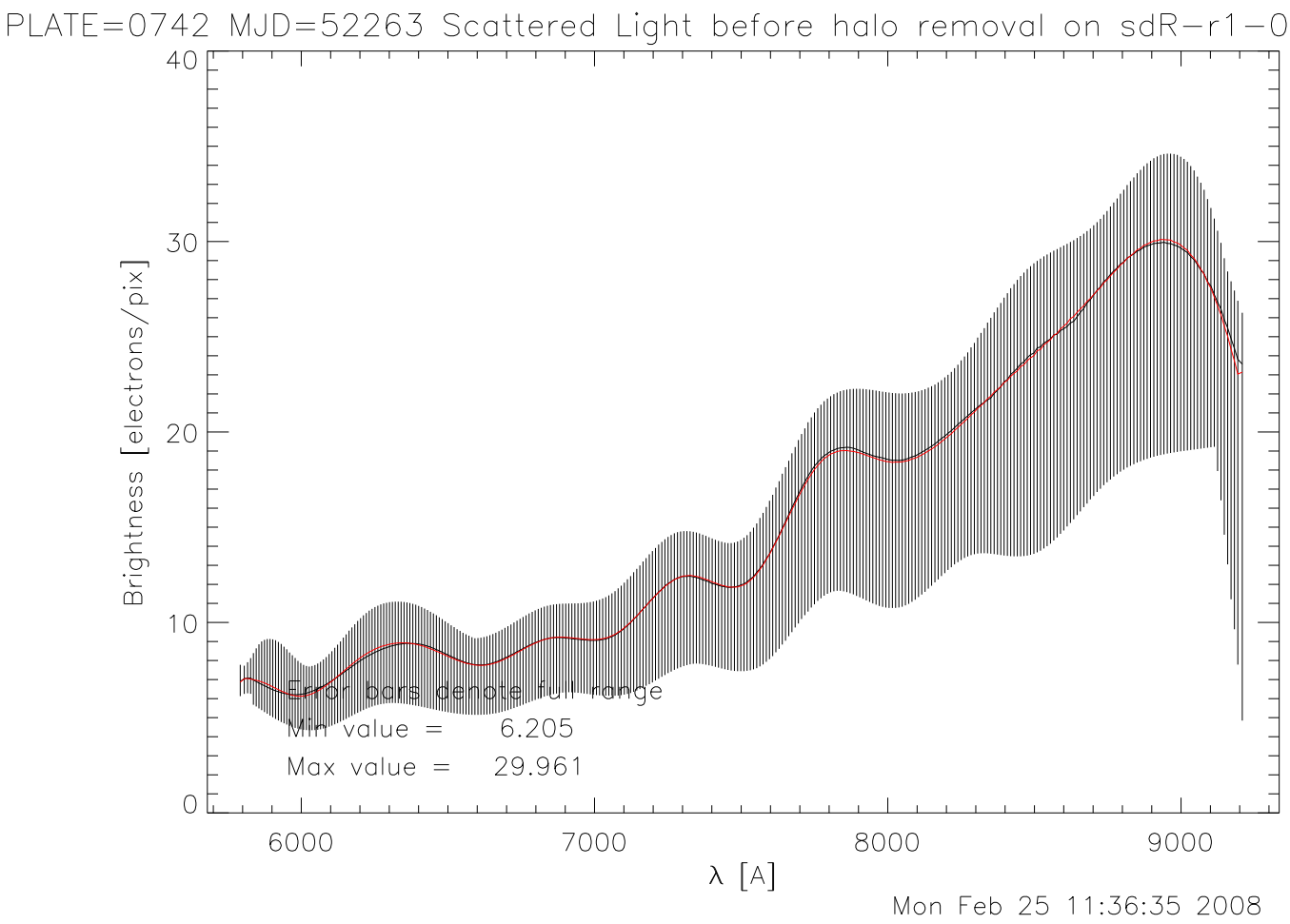

PLATE=0742 MJD=52263 flat extraction chi^2 for sdR−r1−00012302.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
0
500
1000
1500
2000

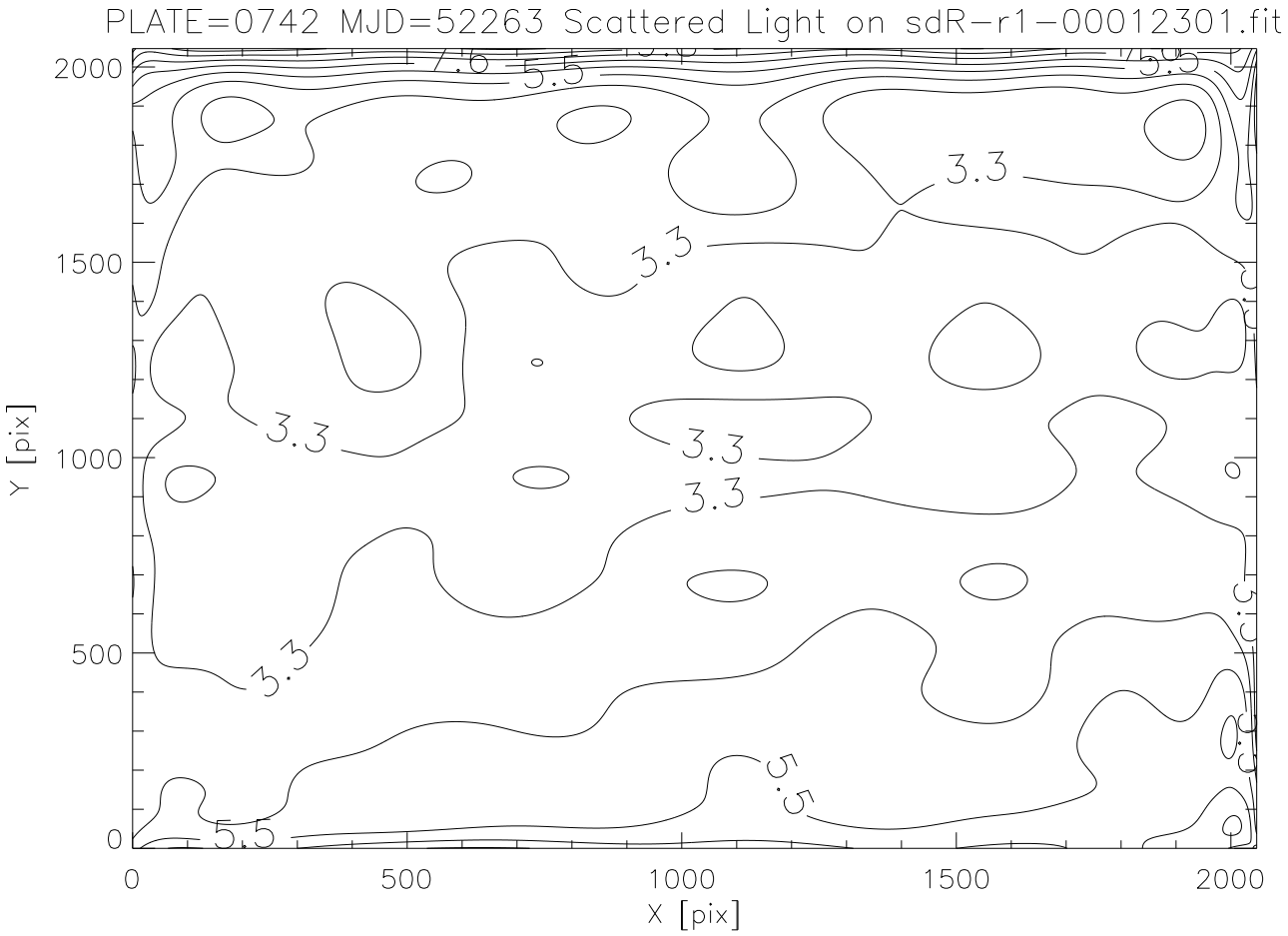

PLATE=0742 MJD=52263 Superflat sdR-r1-00012302.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

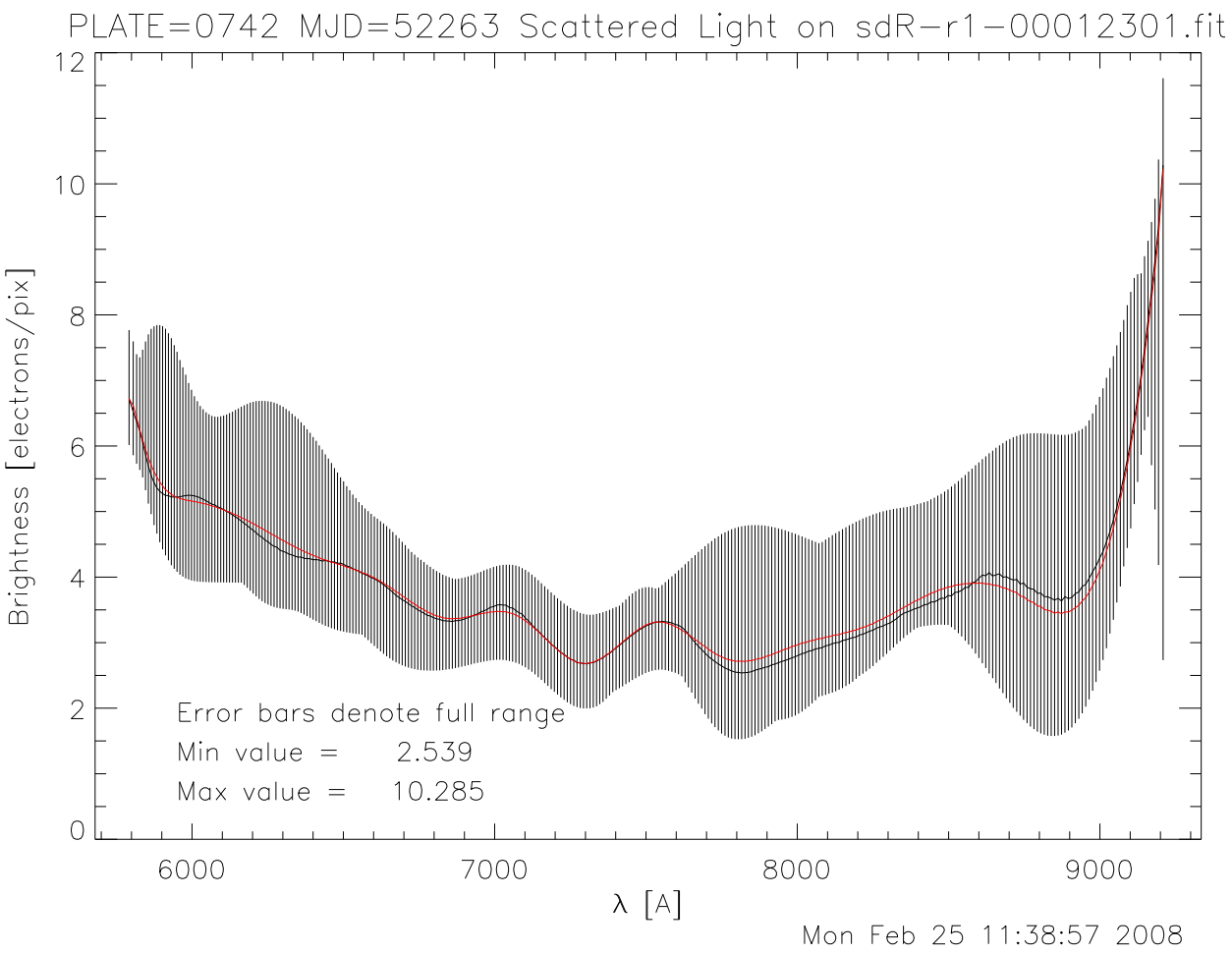

PLATE=0742 MJD=52263 Arcline Fit for sdR-r1-00012303.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Mon Feb 25 11:35:42 2008

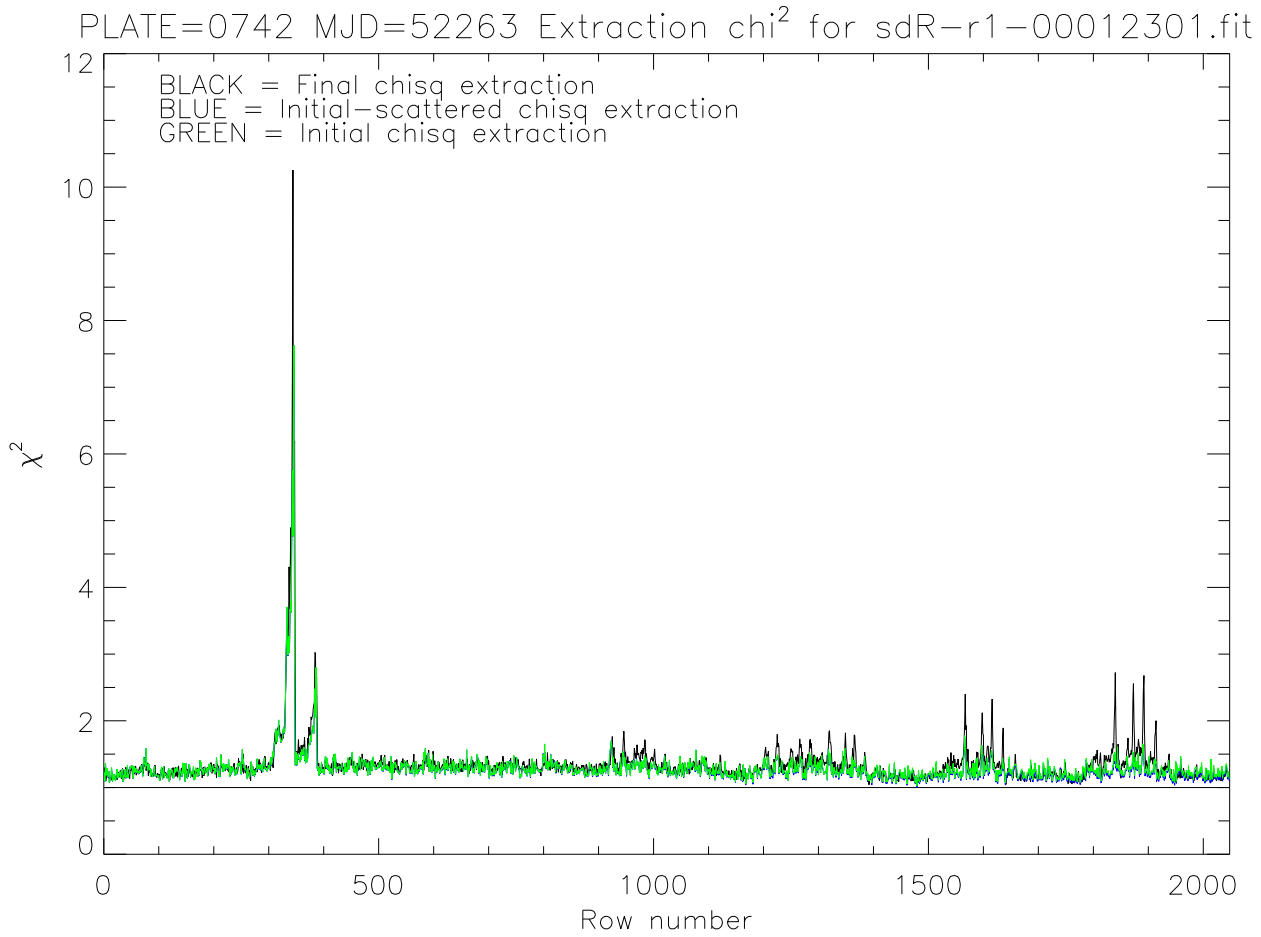

PLATE=0742 MJD=52263 Fiber−Flats for sdR−r1−00012302.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.623
Max value = 1.303
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 25 11:35:48 2008

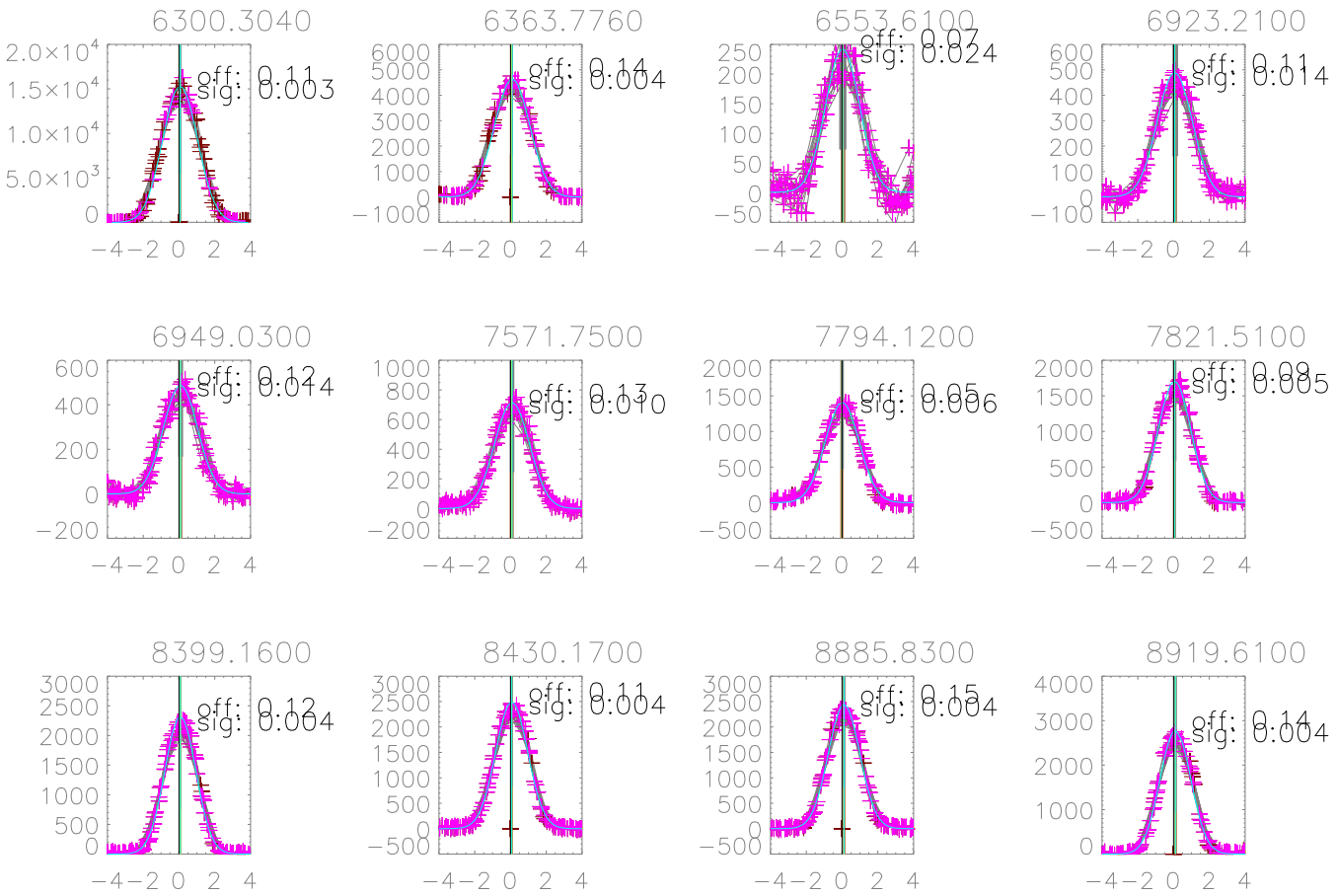

PLATE=0742 MJD=52263 Scattered Light before halo removal on sdR-r1-00012301.fi
25.5
25.5
18.2
18.2
10.9
0
Y [pix]
X [pix]
0
500
1000
1500
2000

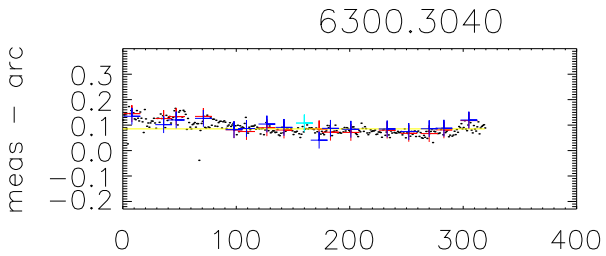

PLATE=0742 MJD=52263 Scattered Light before halo removal on sdR-r1-00012301.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.205
Max value = 29.961
Mon Feb 25 11:36:35 2008

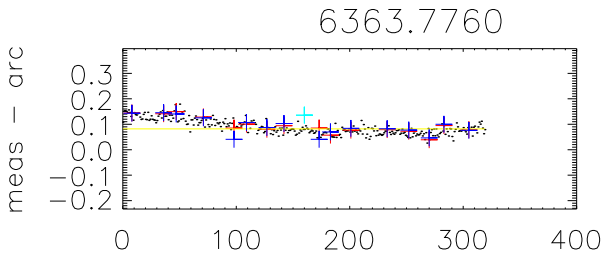

PLATE=0742 MJD=52263 Scattered Light on sdR-r1-00012301.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
5.5
3.3

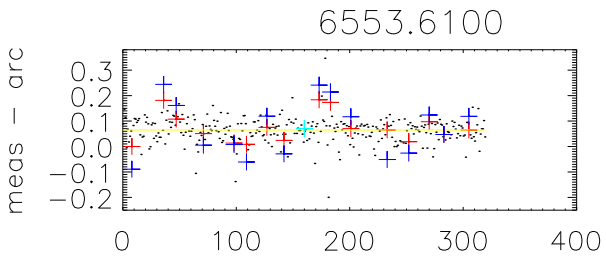

PLATE=0742 MJD=52263 Scattered Light on sdR-r1-00012301.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 2.539
Max value = 10.285
Mon Feb 25 11:38:57 2008

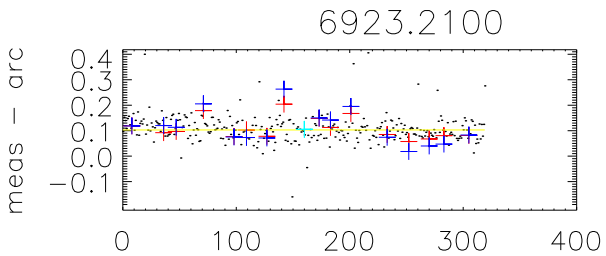

PLATE=0742 MJD=52263 Extraction chi^2 for sdR−r1−00012301.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
10
12
0
500
1000
1500
2000
Row number

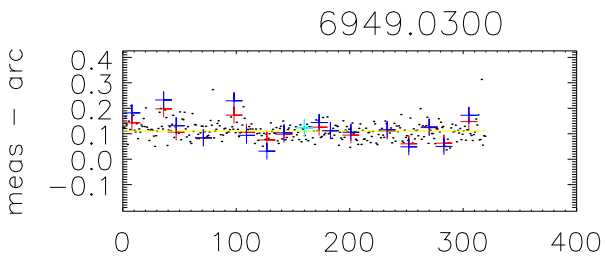

6300.3040
off: 0.11
sig: 0.003
6363.7760
off: 0.14
sig: 0.004
6553.6100
off: 0.07
sig: 0.024
6923.2100
off: 0.11
sig: 0.014
6949.0300
off: 0.12
sig: 0.044
7571.7500
off: 0.13
sig: 0.010
7794.1200
off: 0.05
sig: 0.006
7821.5100
off: 0.08
sig: 0.005
8399.1600
off: 0.12
sig: 0.004
8430.1700
off: 0.11
sig: 0.004
8885.8300
off: 0.15
sig: 0.004
8919.6100
off: 0.14
sig: 0.004

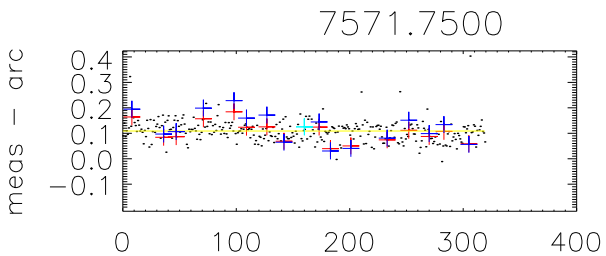

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

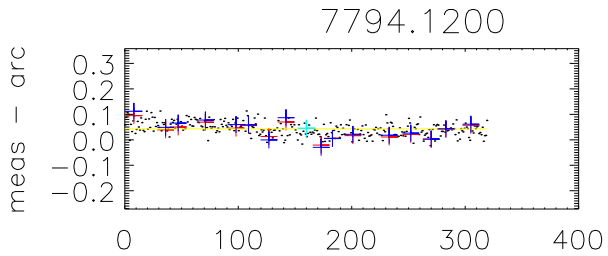

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

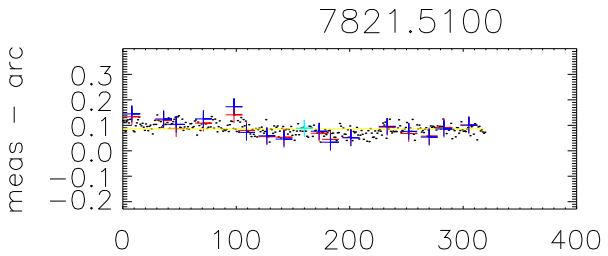

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

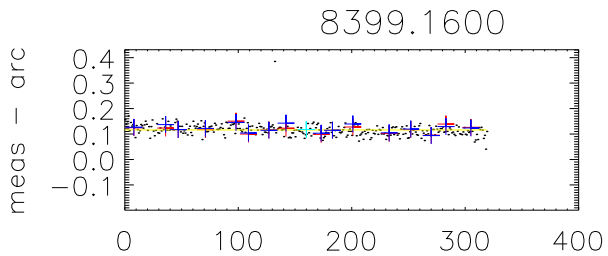

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

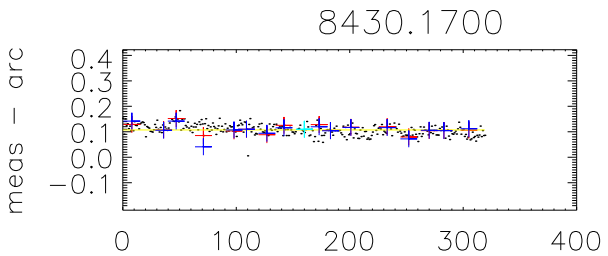

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

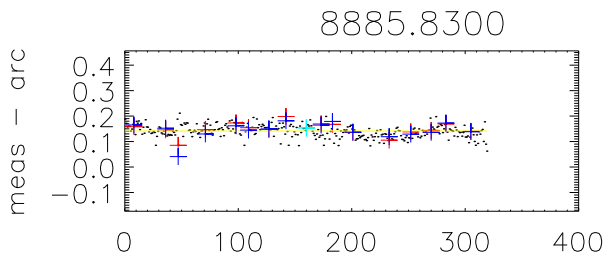

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

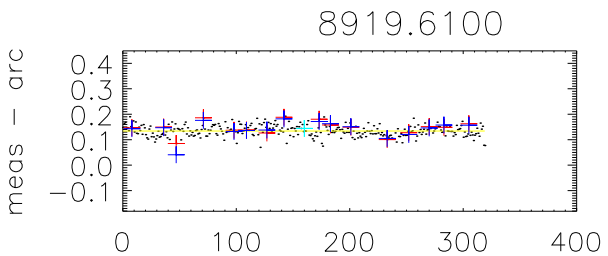

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

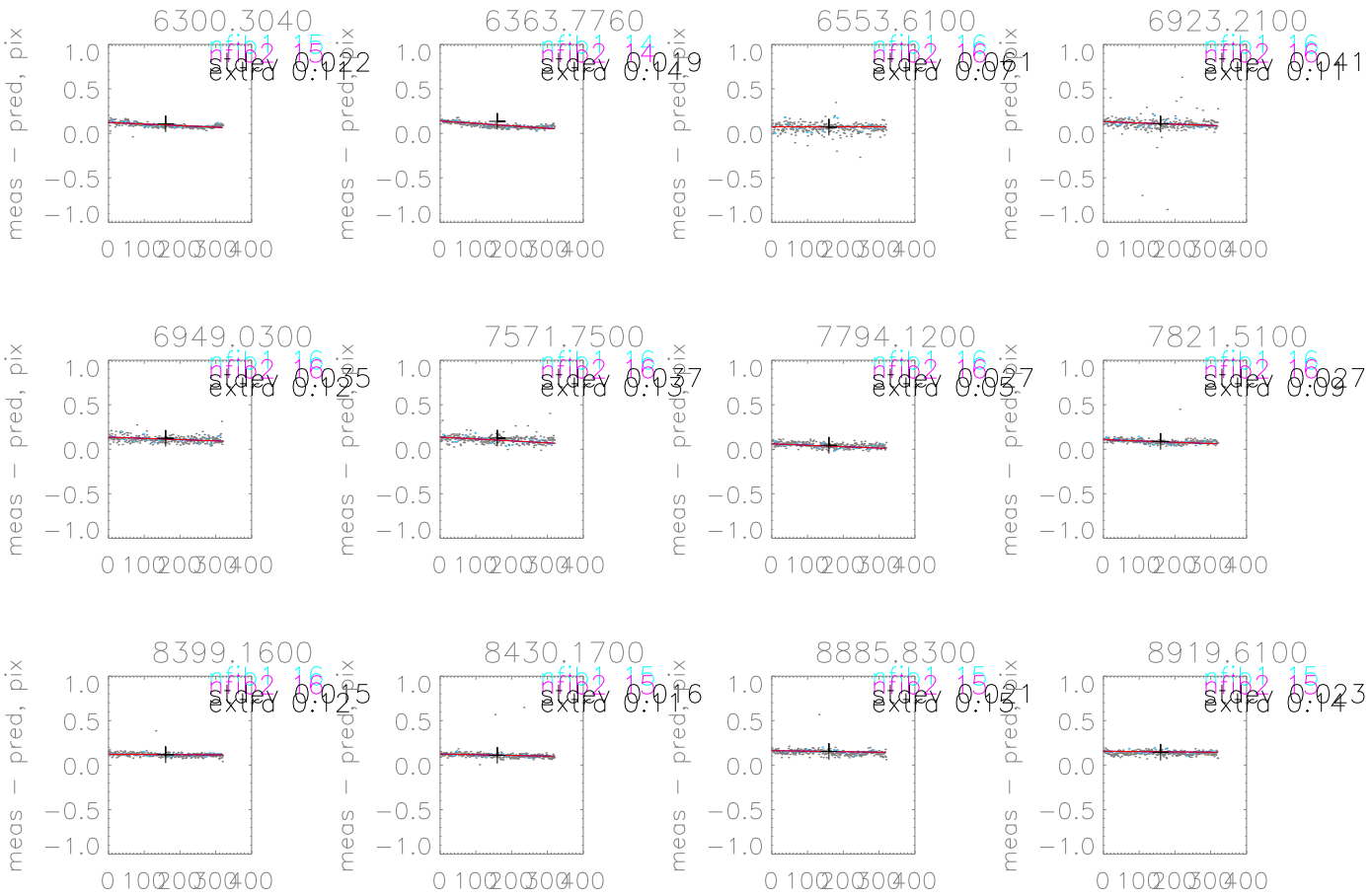

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

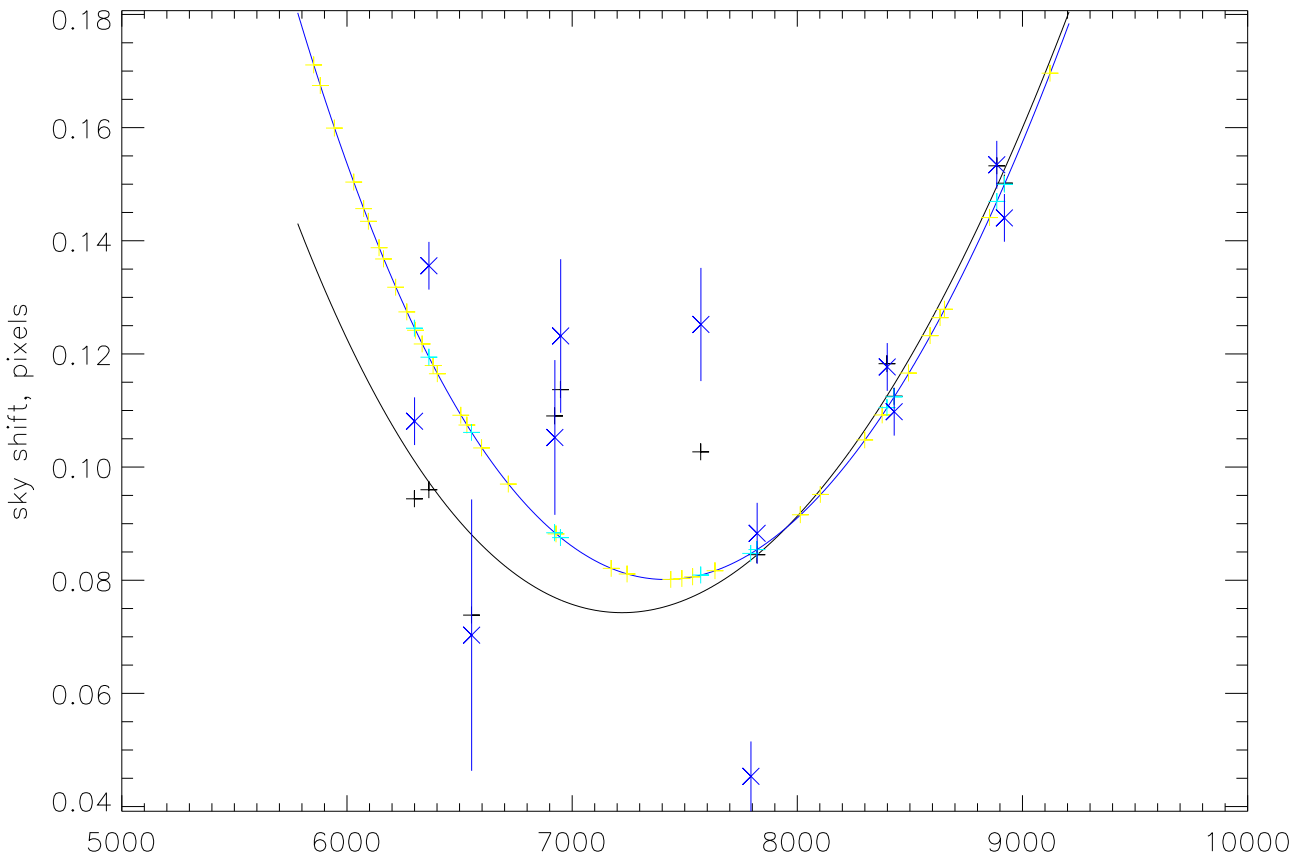

8399.1600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

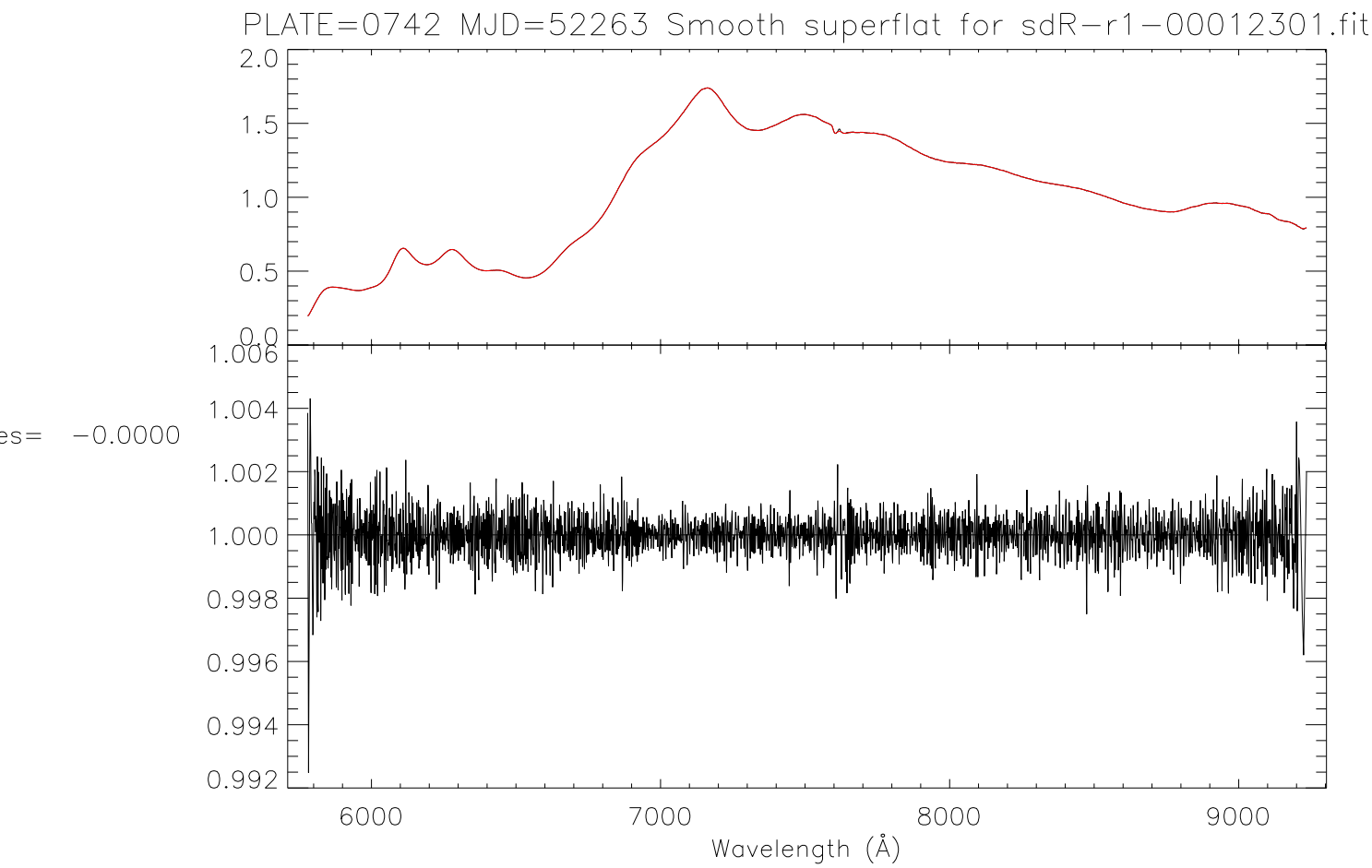

8430.1700
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

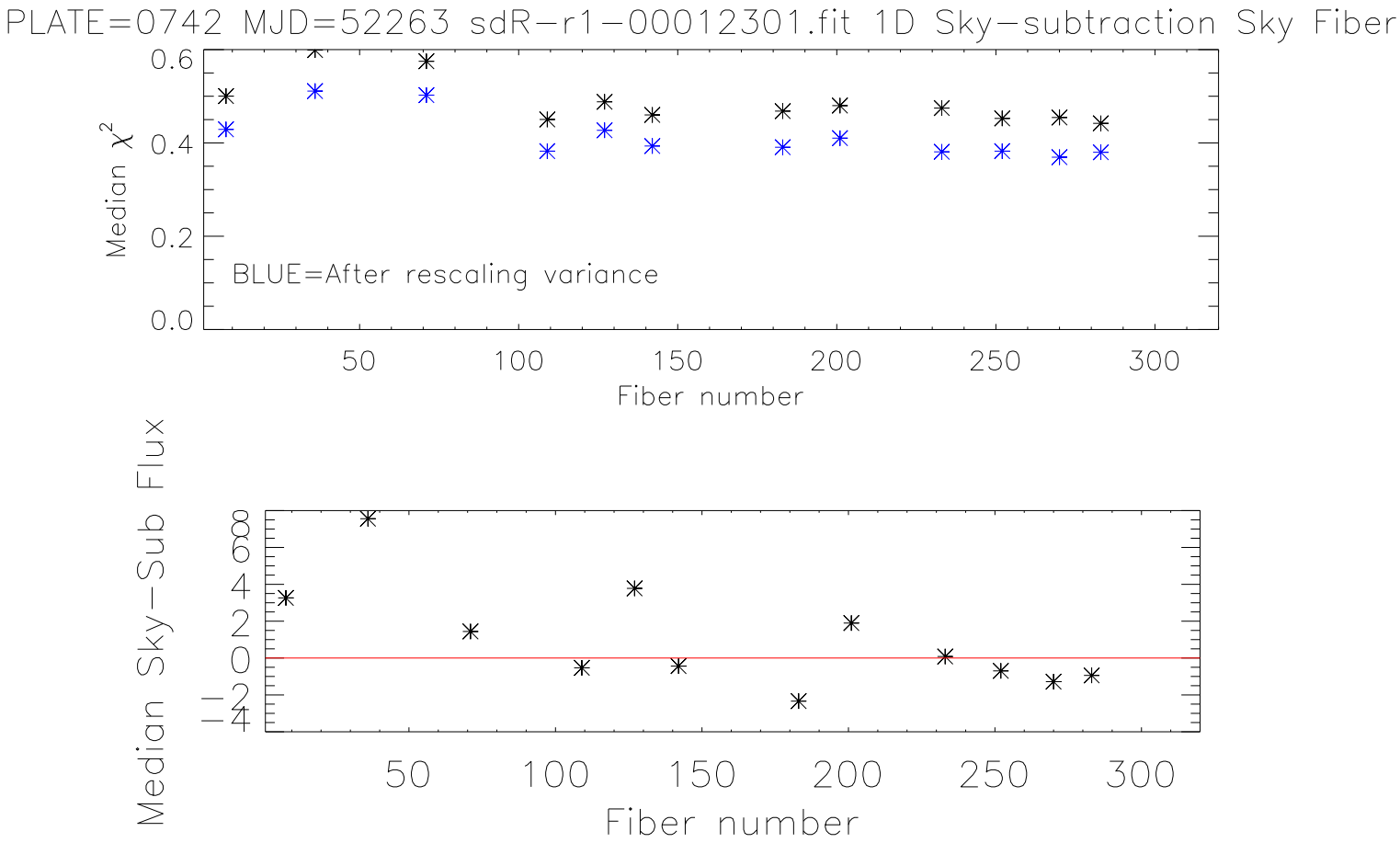

8919.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

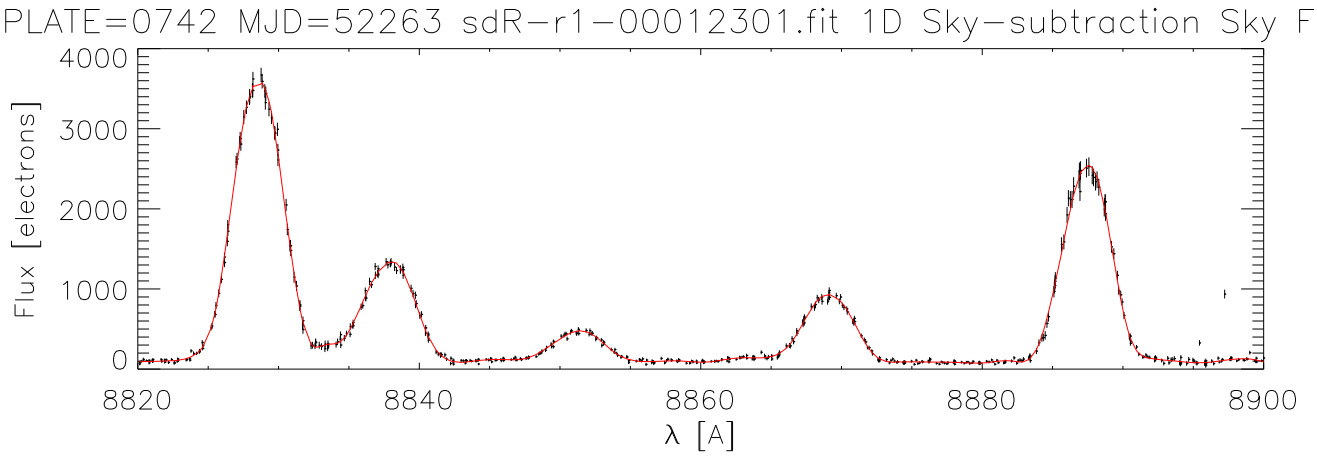

6300.3040
mfib1 15
mfib2 15
stdev 0.022
extra 0.12
6363.7760
mfib1 14
mfib2 14
stdev 0.019
extra 0.14
6553.6100
mfib1 16
mfib2 16
stdev 0.021
extra 0.07
6923.2100
mfib1 16
mfib2 16
stdev 0.041
extra 0.11
6949.0300
mfib1 16
mfib2 16
stdev 0.035
extra 0.12
7571.7500
mfib1 16
mfib2 16
stdev 0.037
extra 0.13
7794.1200
mfib1 16
mfib2 16
stdev 0.027
extra 0.05
7821.5100
mfib1 16
mfib2 16
stdev 0.027
extra 0.09
8399.1600
mfib1 16
mfib2 16
stdev 0.015
extra 0.12
8430.1700
mfib1 15
mfib2 15
stdev 0.016
extra 0.11
8885.8300
mfib1 15
mfib2 15
stdev 0.021
extra 0.13
8919.6100
mfib1 15
mfib2 15
stdev 0.023
extra 0.14
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

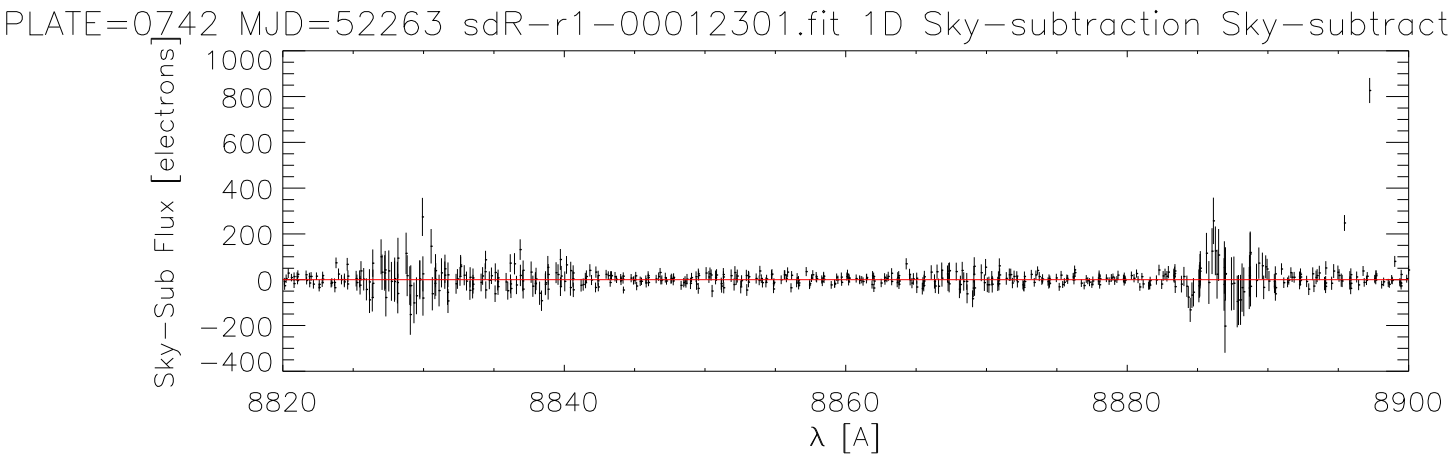

0.18
0.16
0.14
0.12
0.10
0.08
0.06
0.04
sky shift, pixels
5000
6000
7000
8000
9000
10000

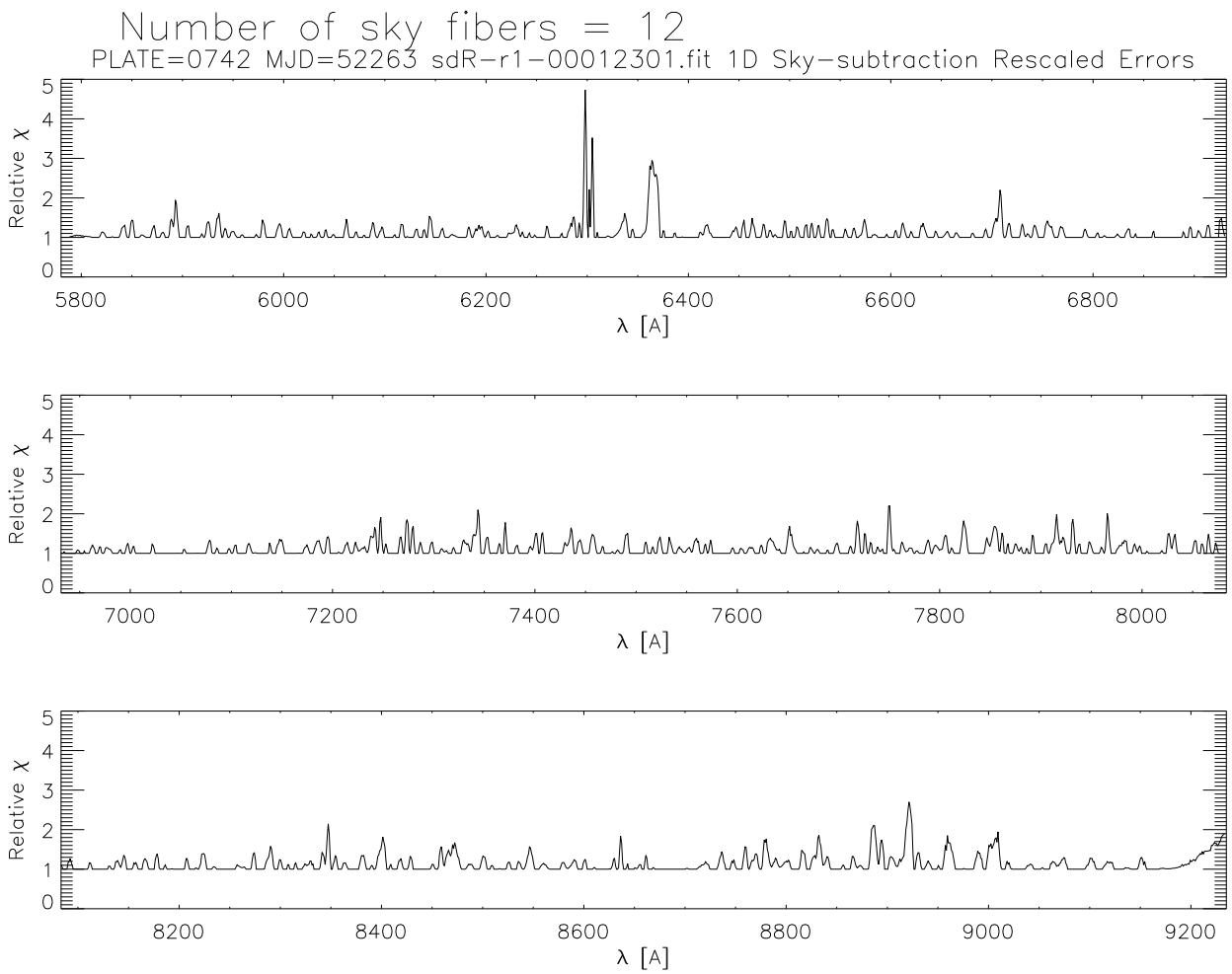

PLATE=0742 MJD=52263 Smooth superflat for sdR-r1-00012301.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
6000
7000
8000
9000
Wavelength (Å)

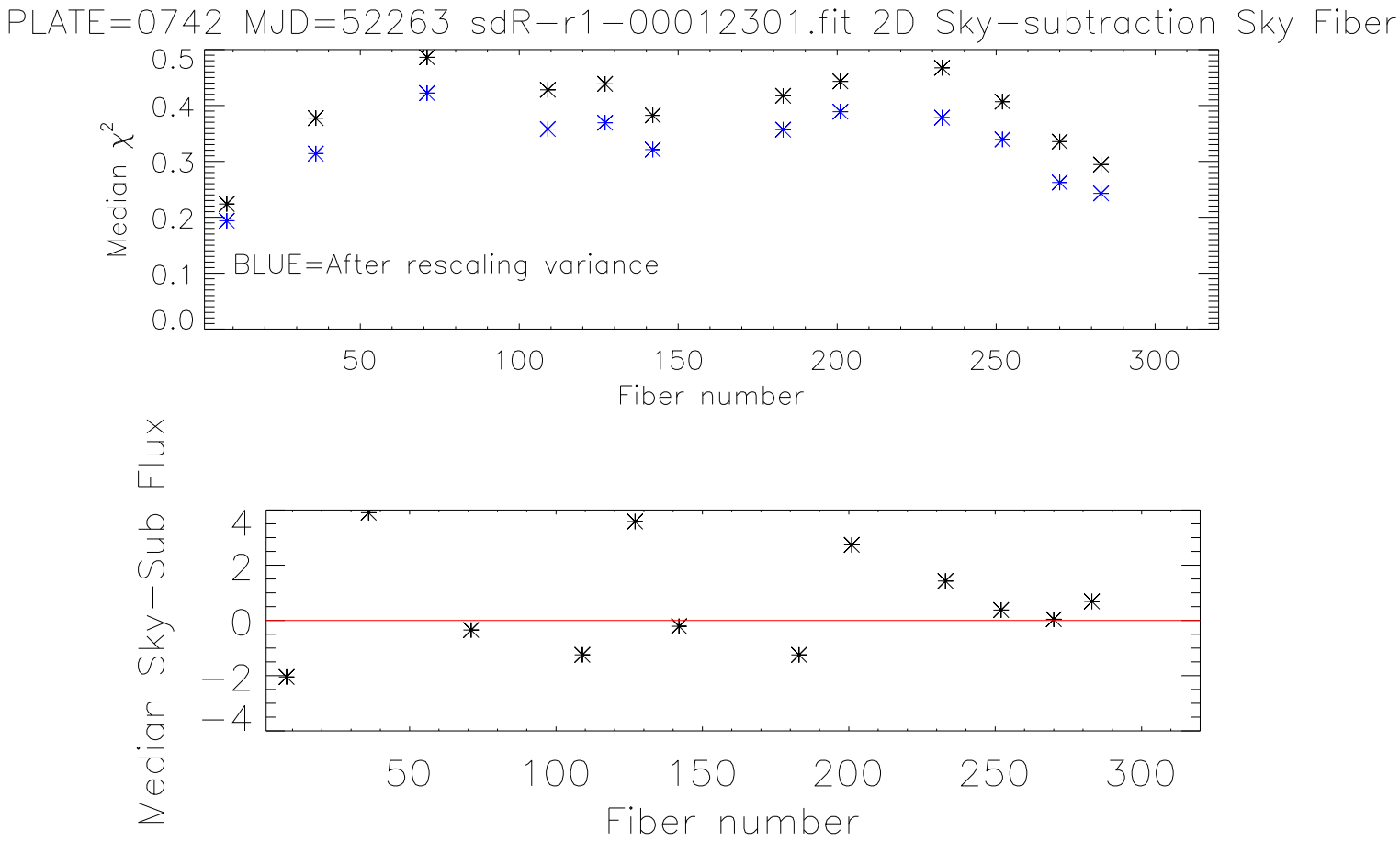
es= −0.0000

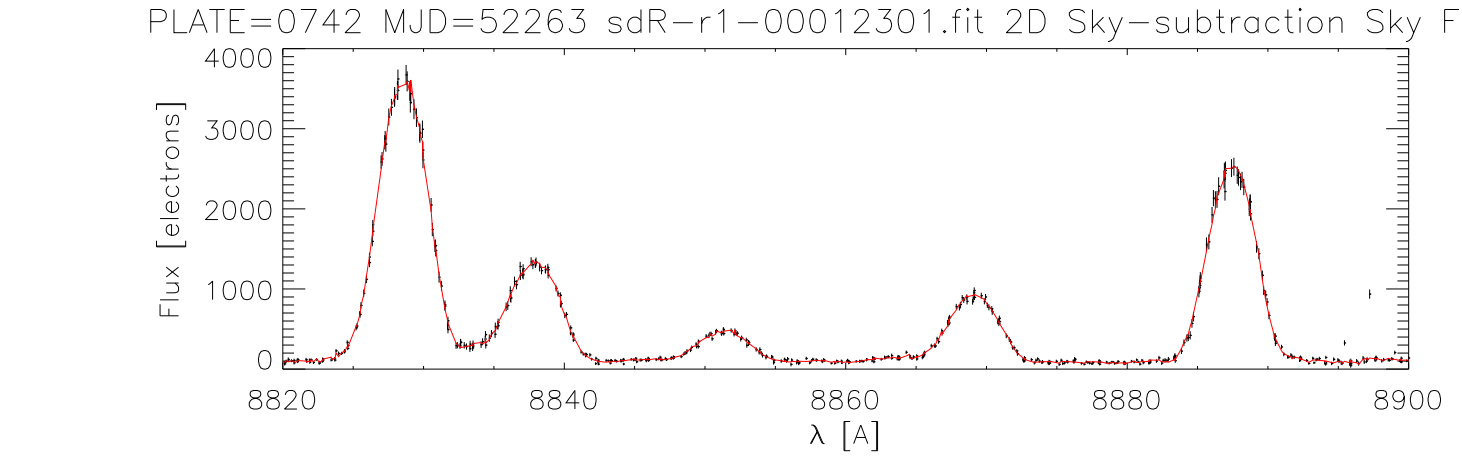

PLATE=0742 MJD=52263 sdR-r1-00012301.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

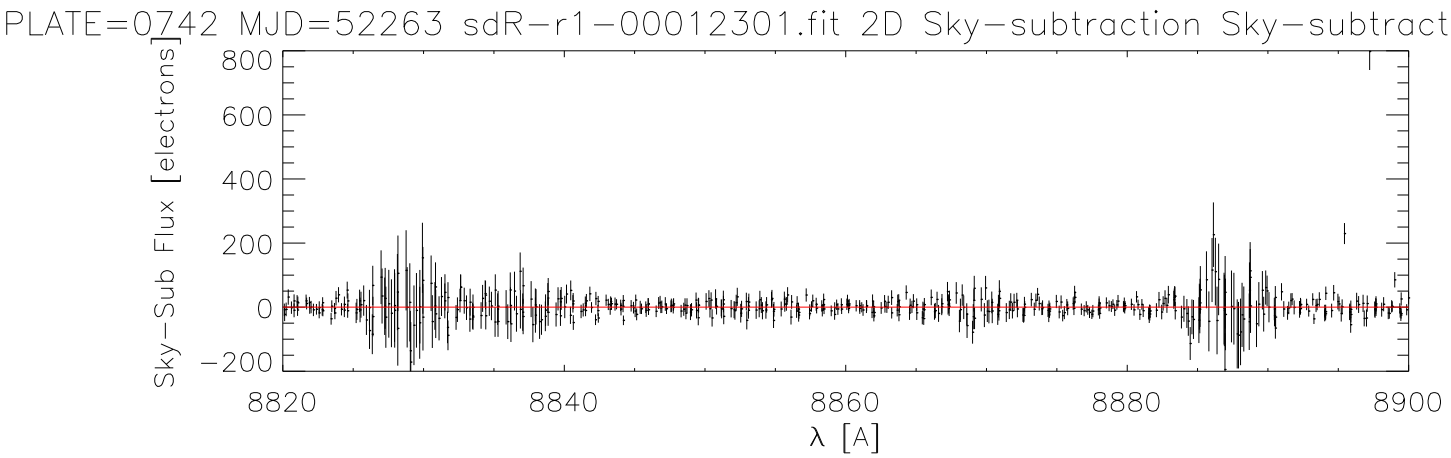

PLATE=0742 MJD=52263 sdR-r1-00012301.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

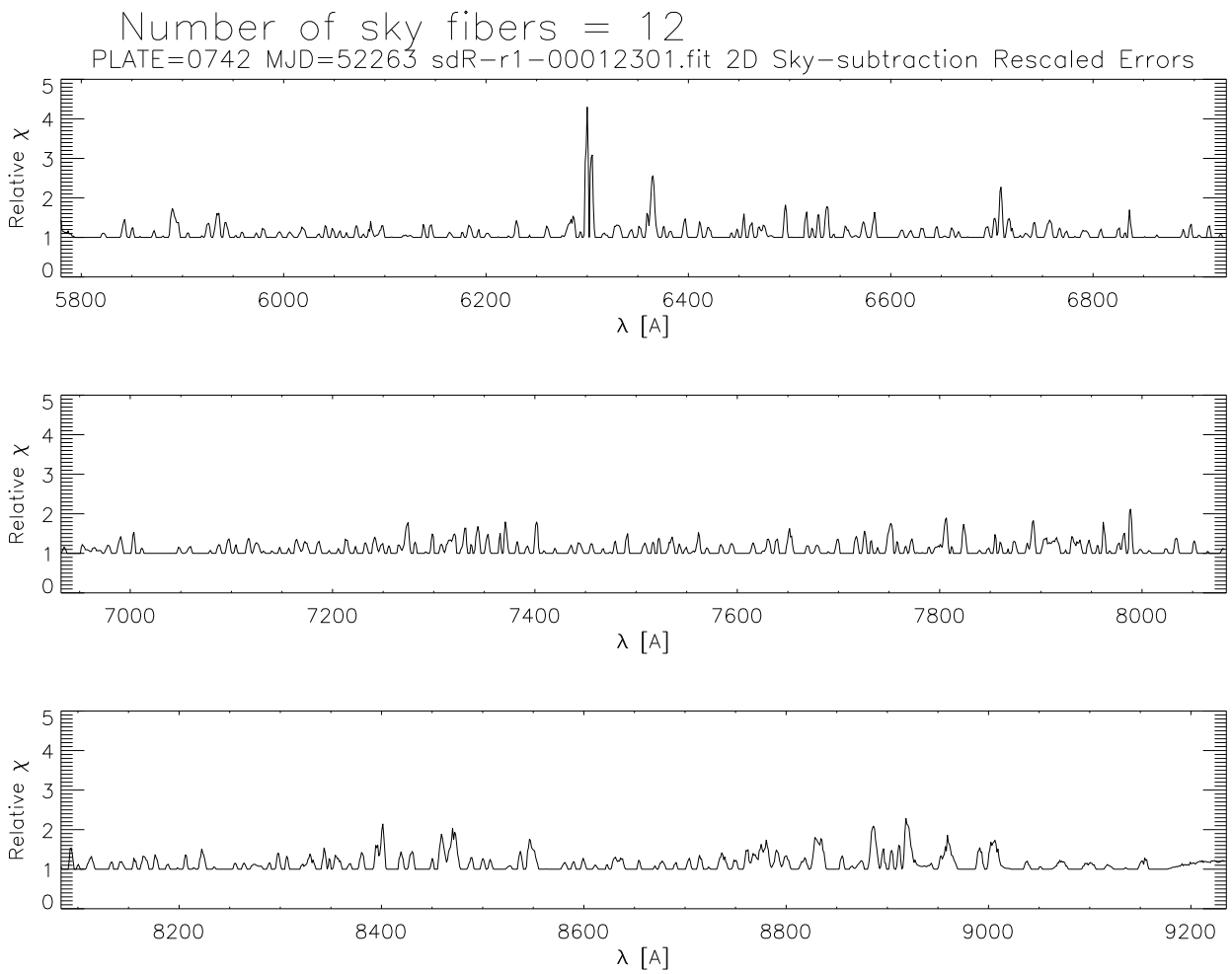

PLATE=0742 MJD=52263 sdR-r1-00012301.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
800
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

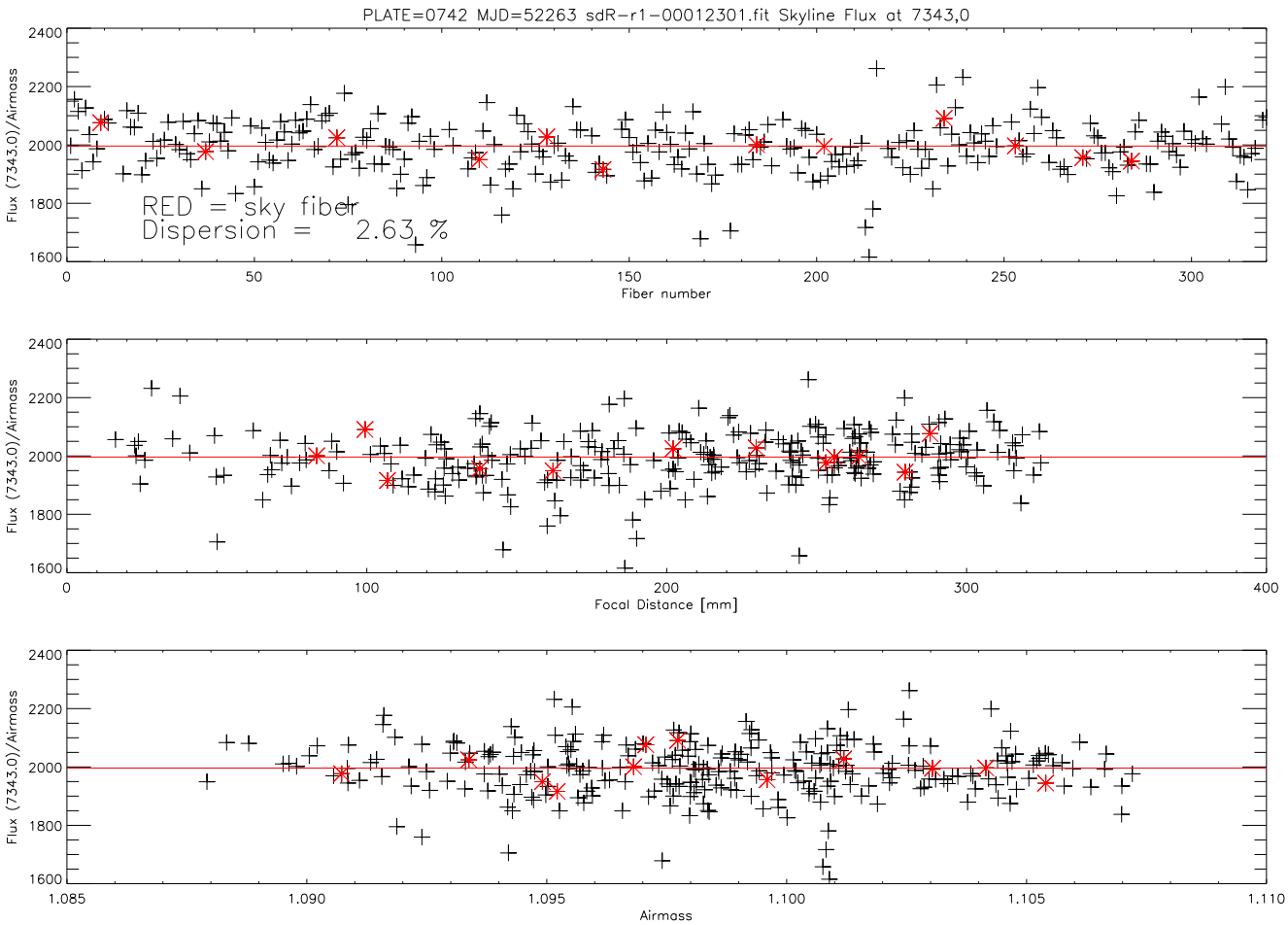

Number of sky fibers = 12
PLATE=0742 MJD=52263 sdR-r1-00012301.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

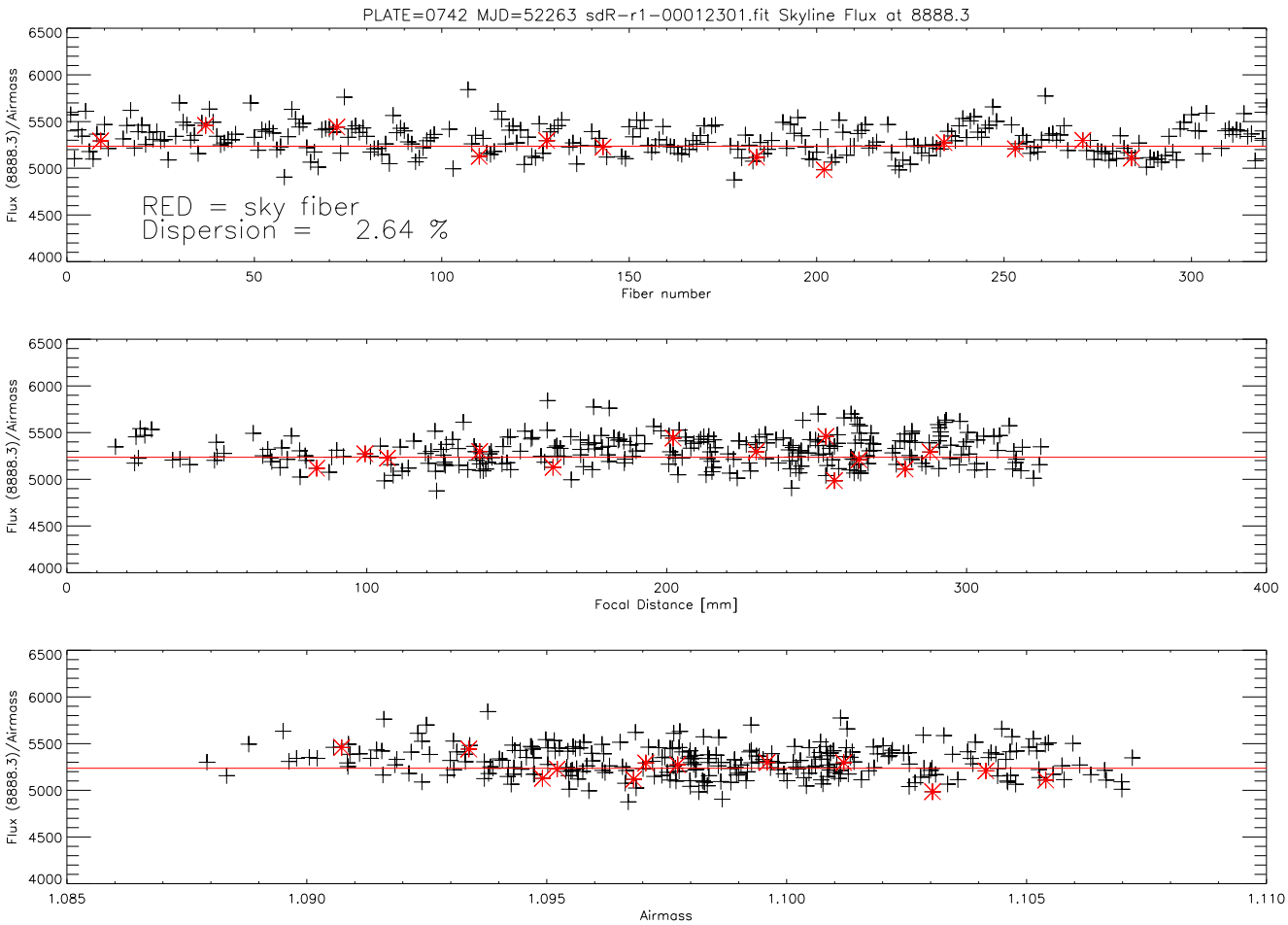

PLATE=0742 MJD=52263 sdR-r1-00012301.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
50
100
150
200
250
300
Fiber number

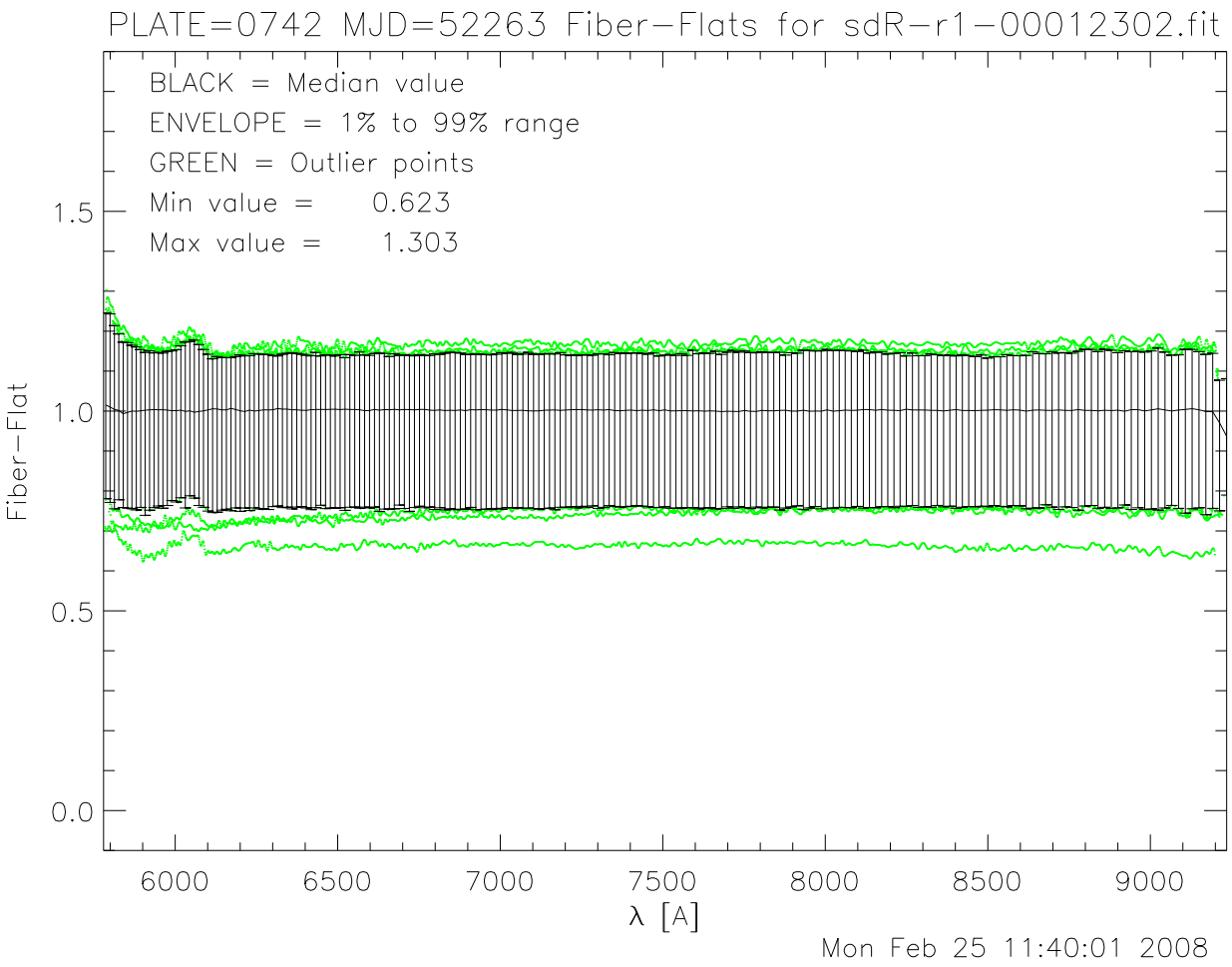

PLATE=0742 MJD=52263 sdR-r1-00012301.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

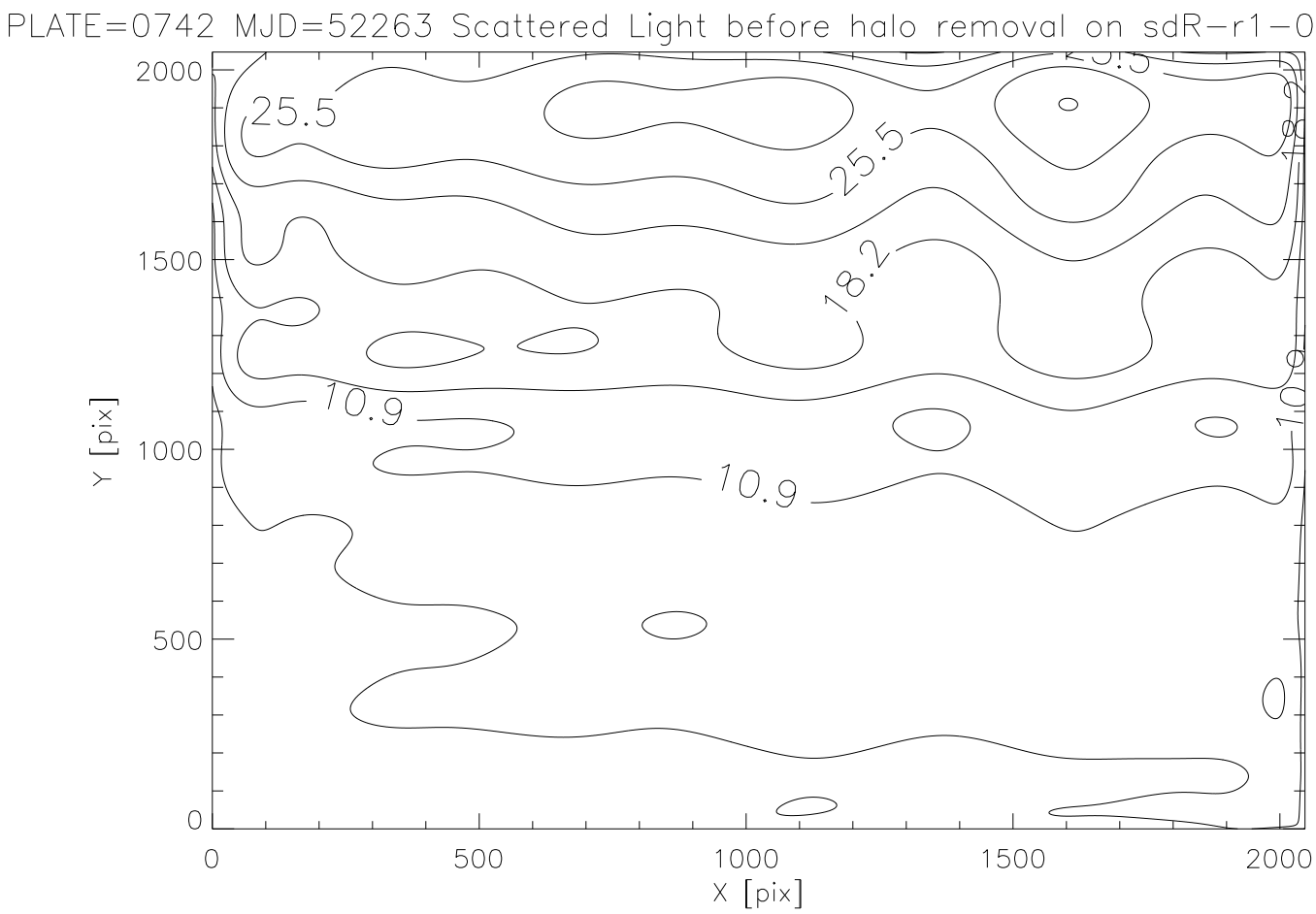

PLATE=0742 MJD=52263 sdR-r1-00012301.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

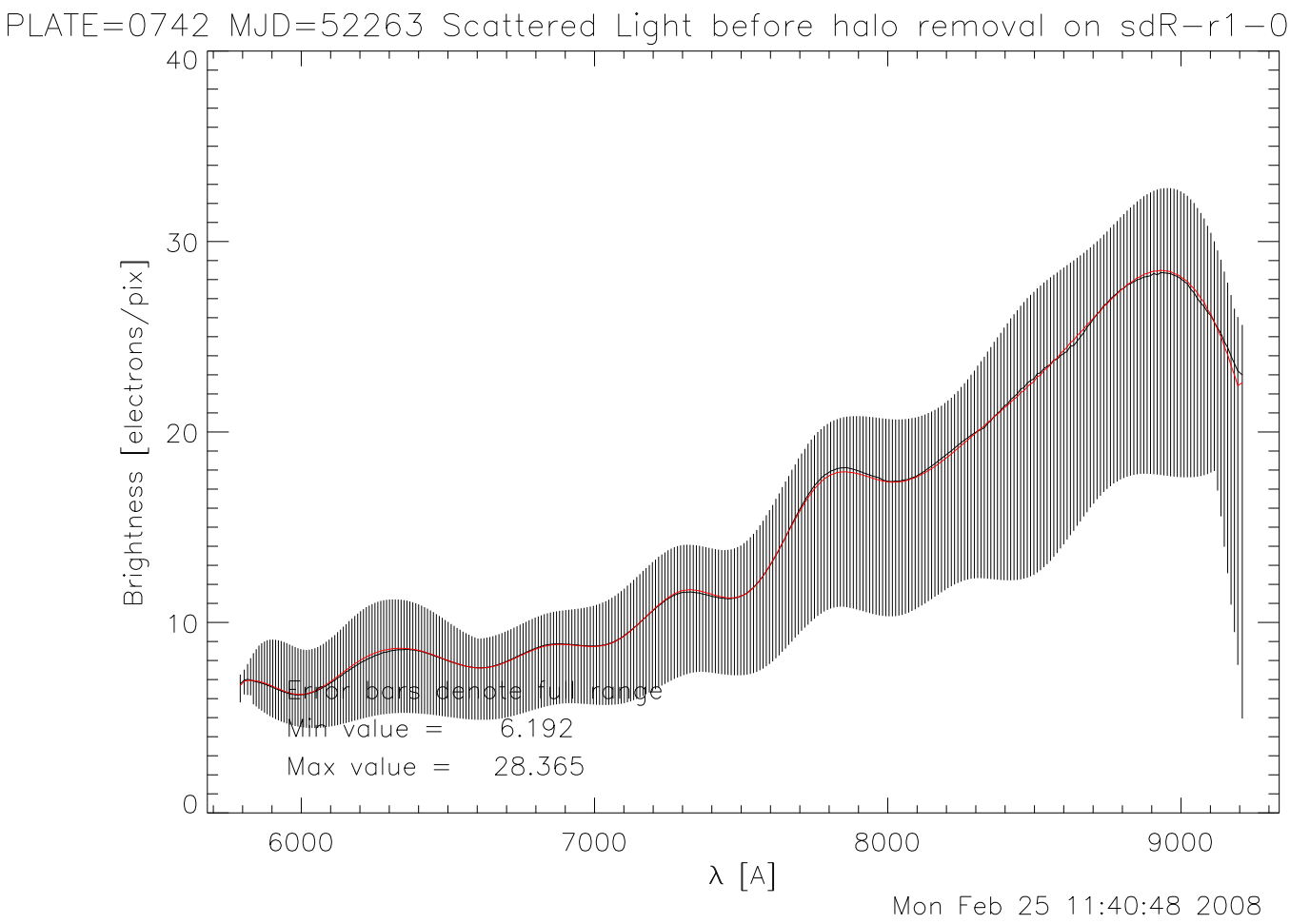

Number of sky fibers = 12
PLATE=0742 MJD=52263 sdR-r1-00012301.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

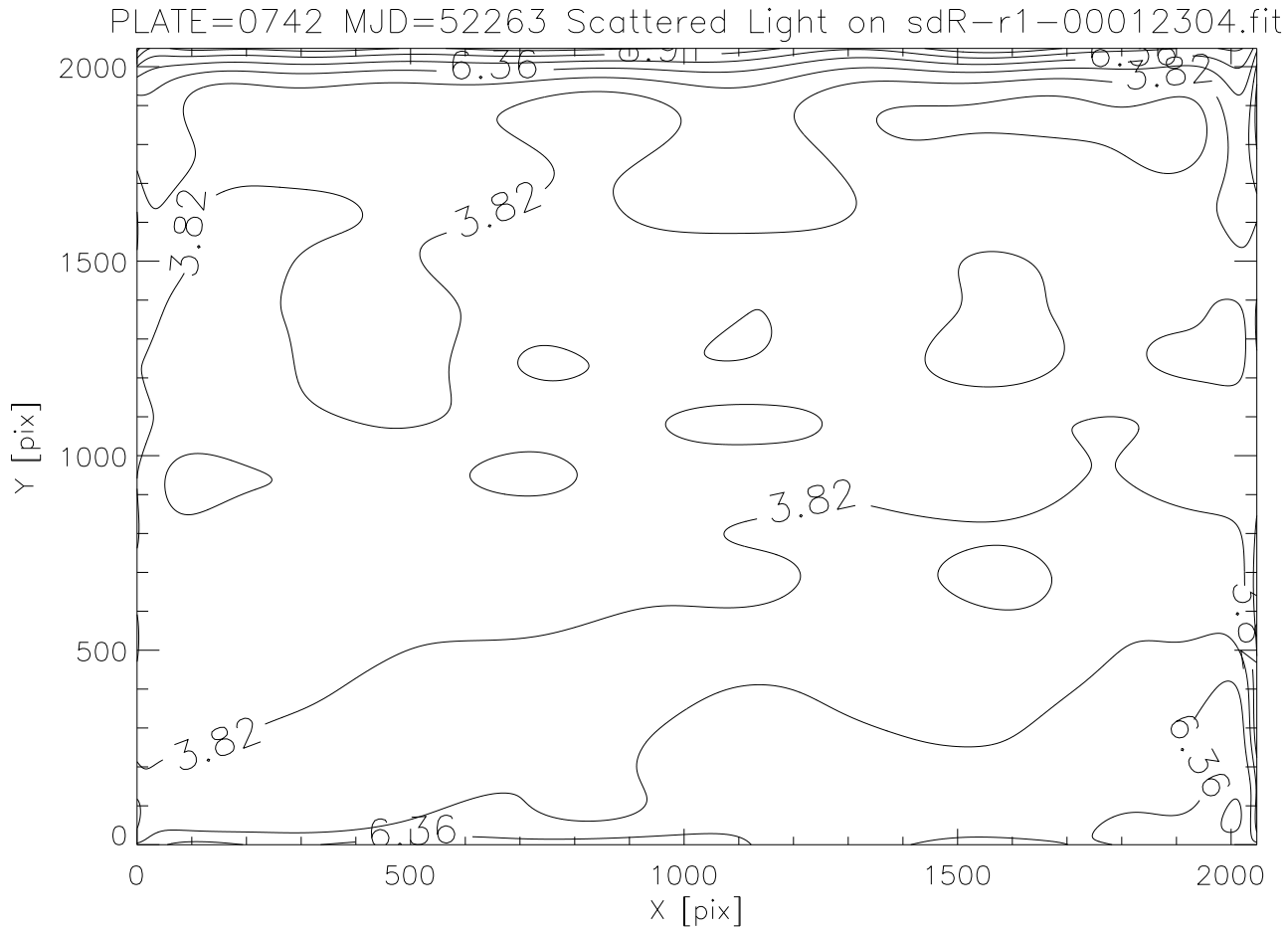

PLATE=0742 MJD=52263 sdR-r1-00012301.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.63 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

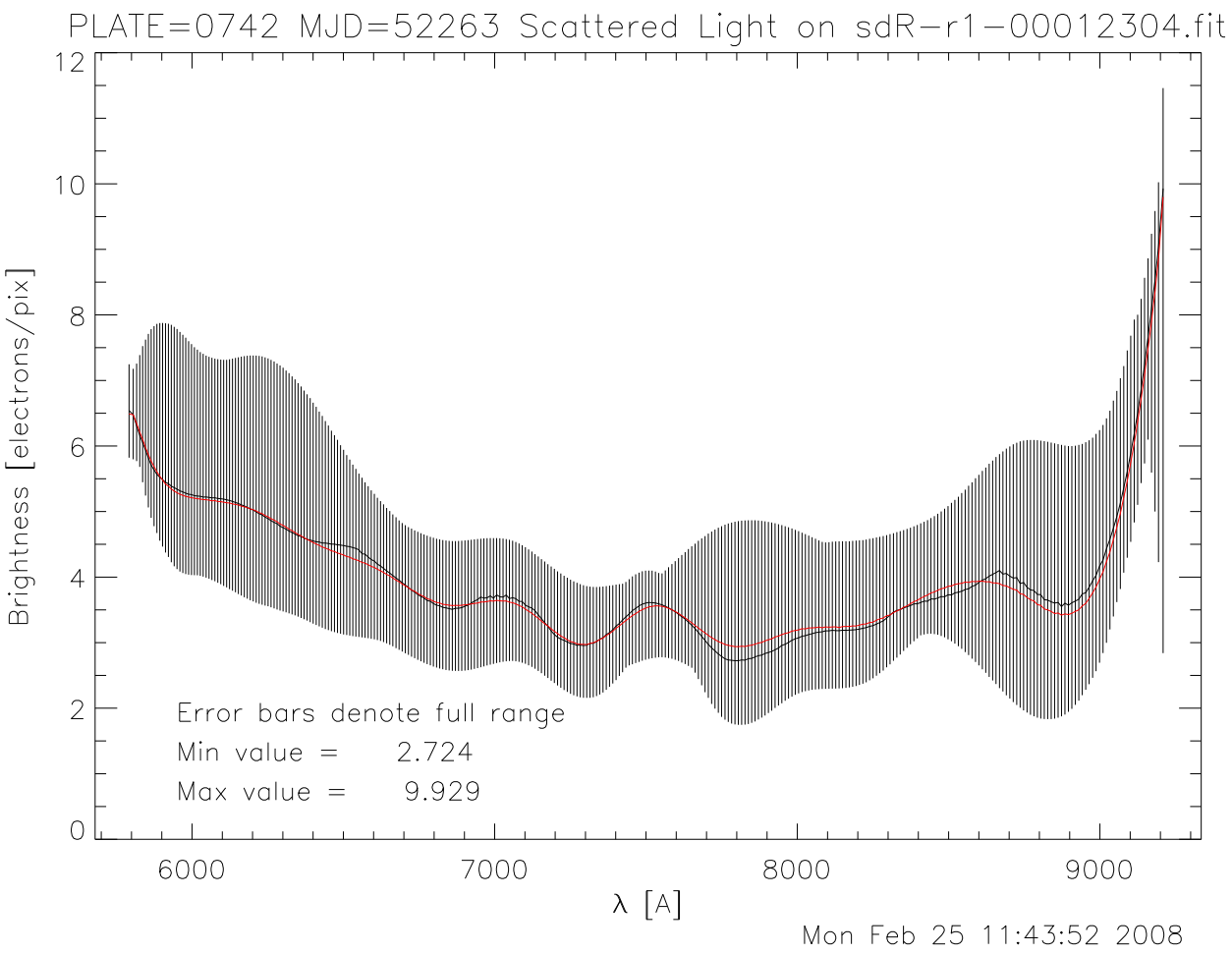

PLATE=0742 MJD=52263 sdR-r1-00012301.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.64 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

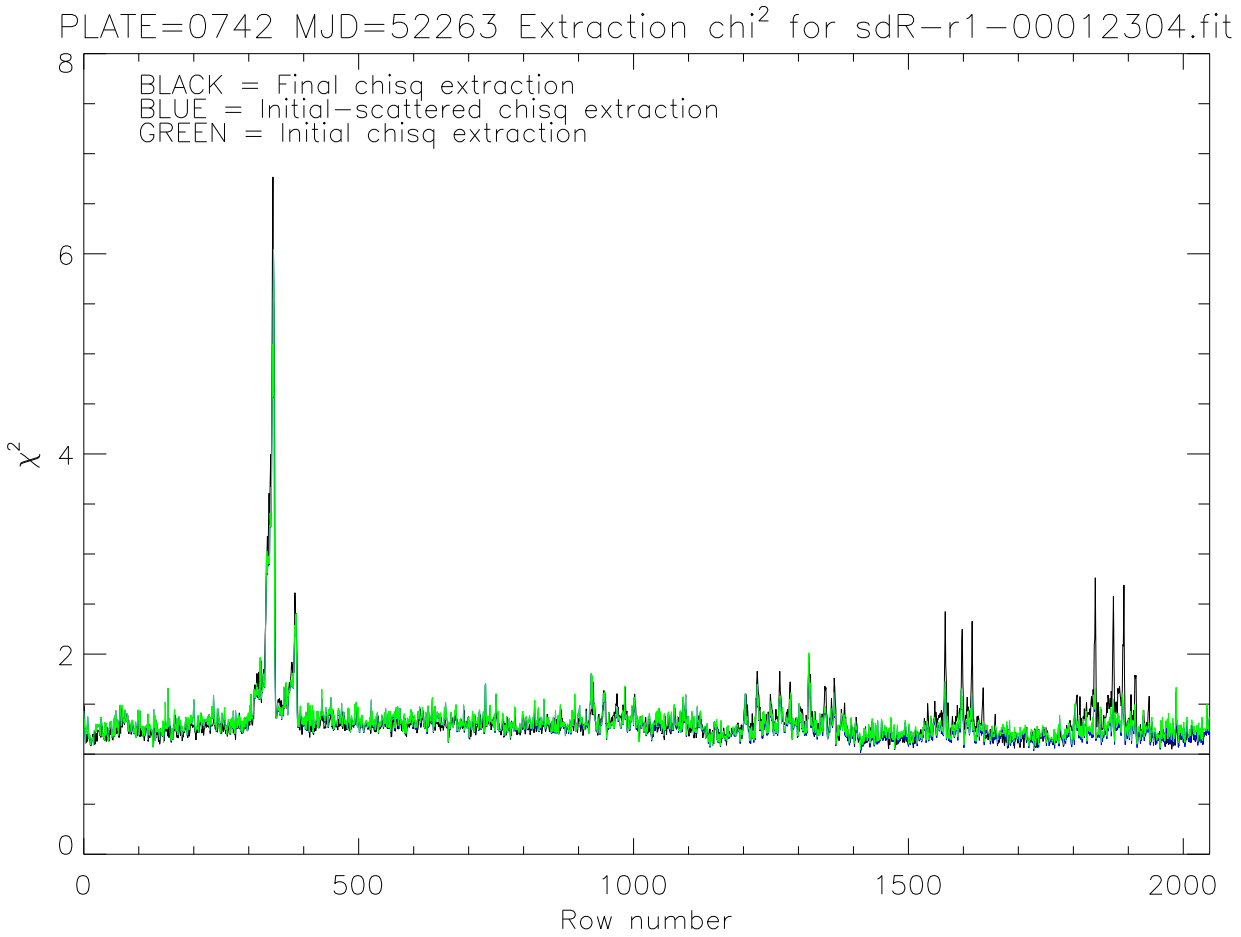

PLATE=0742 MJD=52263 Fiber−Flats for sdR−r1−00012302.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.623
Max value = 1.303
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 25 11:40:01 2008

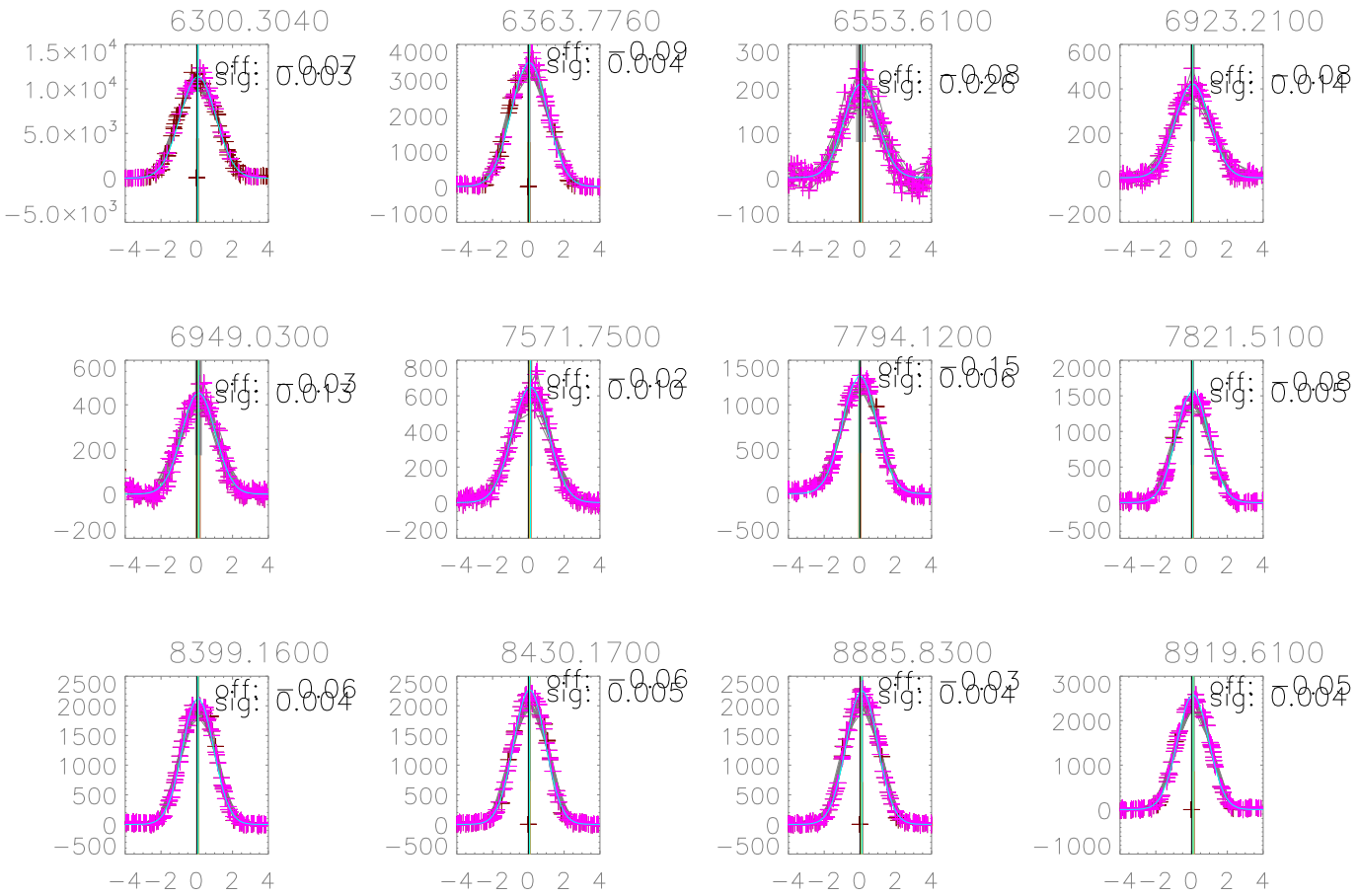

PLATE=0742 MJD=52263 Scattered Light before halo removal on sdR-r1-00012304.fi
25.5
25.5
18.2
10.9
10.9
0
Y [pix]
X [pix]
0
500
1000
1500
2000

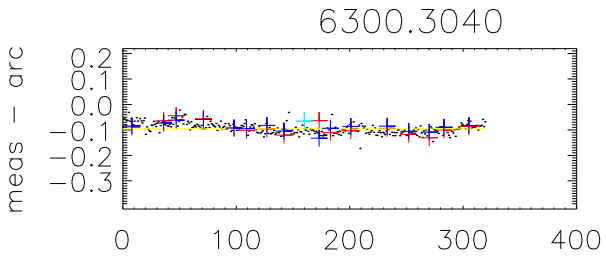

PLATE=0742 MJD=52263 Scattered Light before halo removal on sdR-r1-00012304.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.192
Max value = 28.365
Mon Feb 25 11:40:48 2008

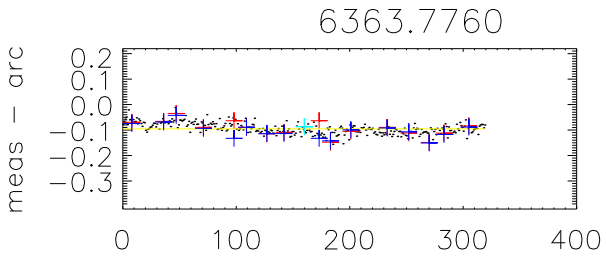

PLATE=0742 MJD=52263 Scattered Light on sdR−r1−00012304.fit
6.36
3.82
3.82
3.82
3.82
6.36
6.36
Y [pix]
X [pix]
0
500
1000
1500
2000

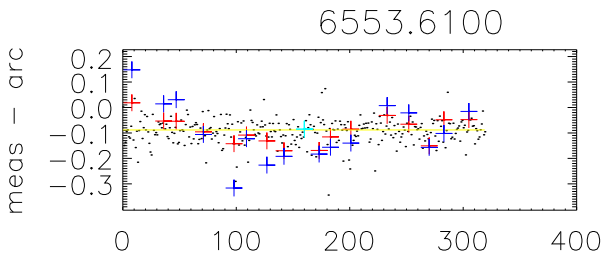

PLATE=0742 MJD=52263 Scattered Light on sdR-r1-00012304.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 2.724
Max value = 9.929
Mon Feb 25 11:43:52 2008

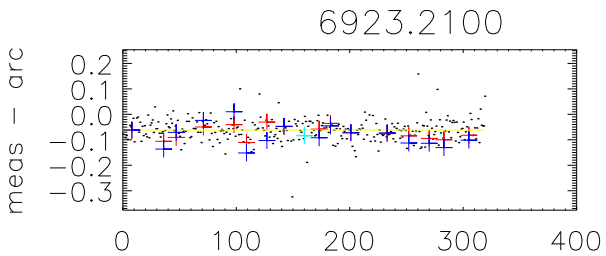

PLATE=0742 MJD=52263 Extraction chi^2 for sdR−r1−00012304.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

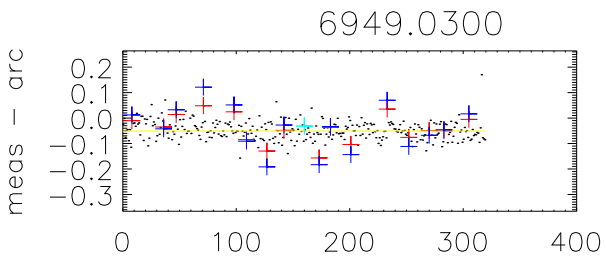

6300.3040
off: −0.07
sig: 0.003
6363.7760
off: −0.09
sig: 0.004
6553.6100
off: −0.08
sig: 0.028
6923.2100
off: −0.08
sig: 0.014
6949.0300
off: −0.03
sig: 0.013
7571.7500
off: −0.02
sig: 0.010
7794.1200
off: −0.15
sig: 0.006
7821.5100
off: −0.08
sig: 0.005
8399.1600
off: −0.06
sig: 0.004
8430.1700
off: −0.06
sig: 0.005
8885.8300
off: −0.03
sig: 0.004
8919.6100
off: −0.05
sig: 0.004

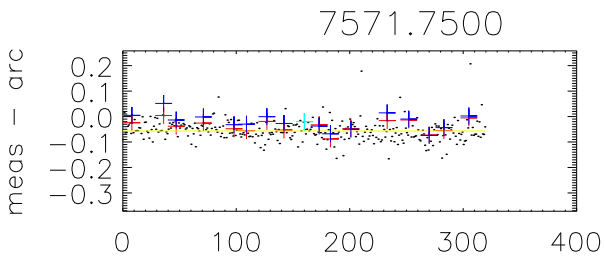

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

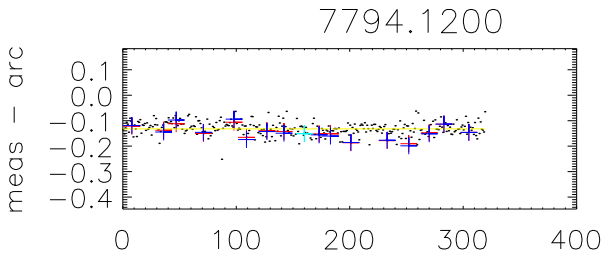

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

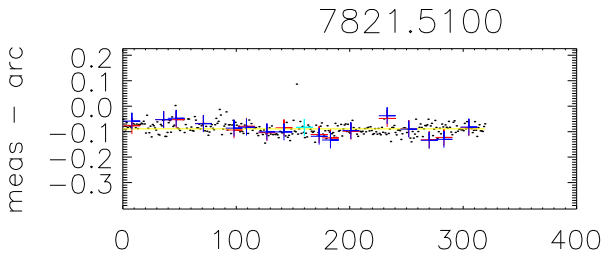

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

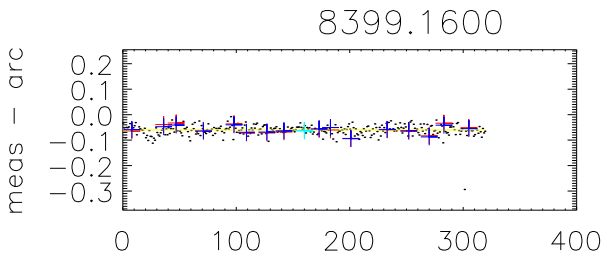

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

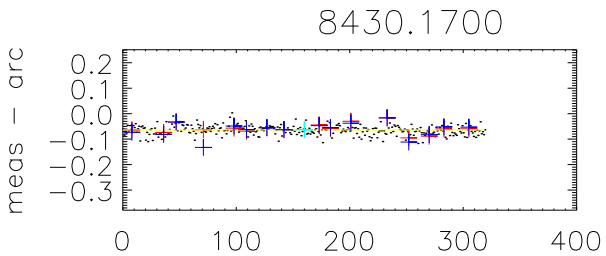

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

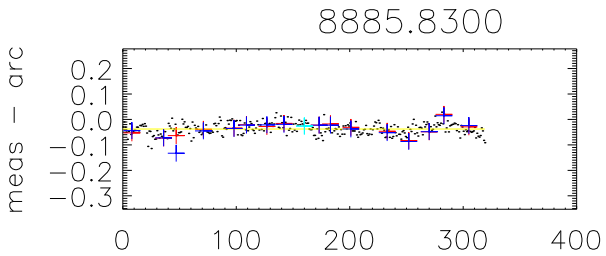

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

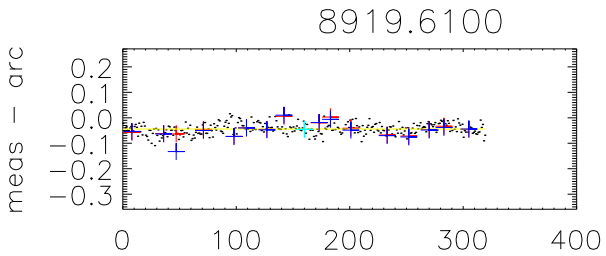

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

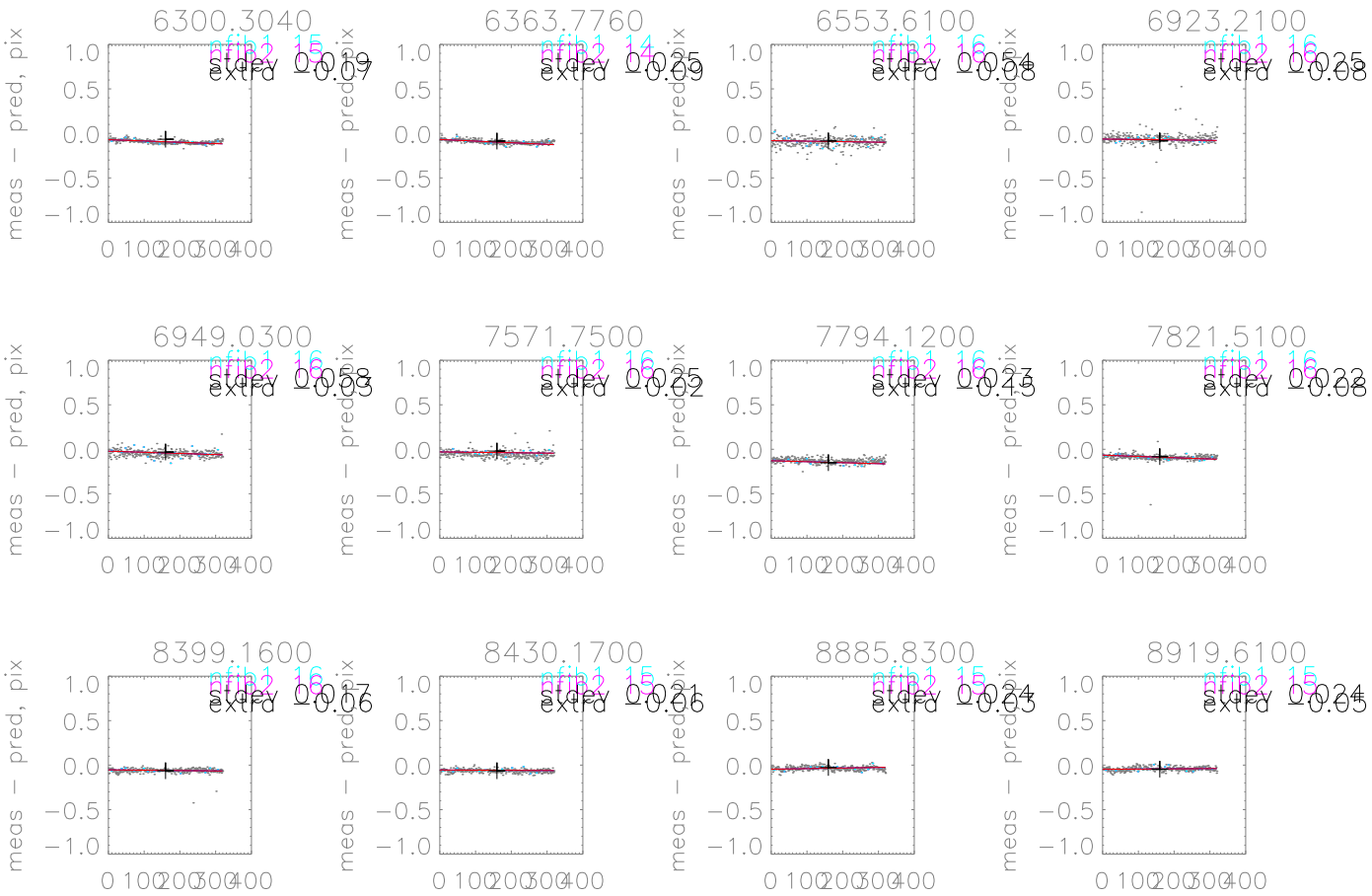

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

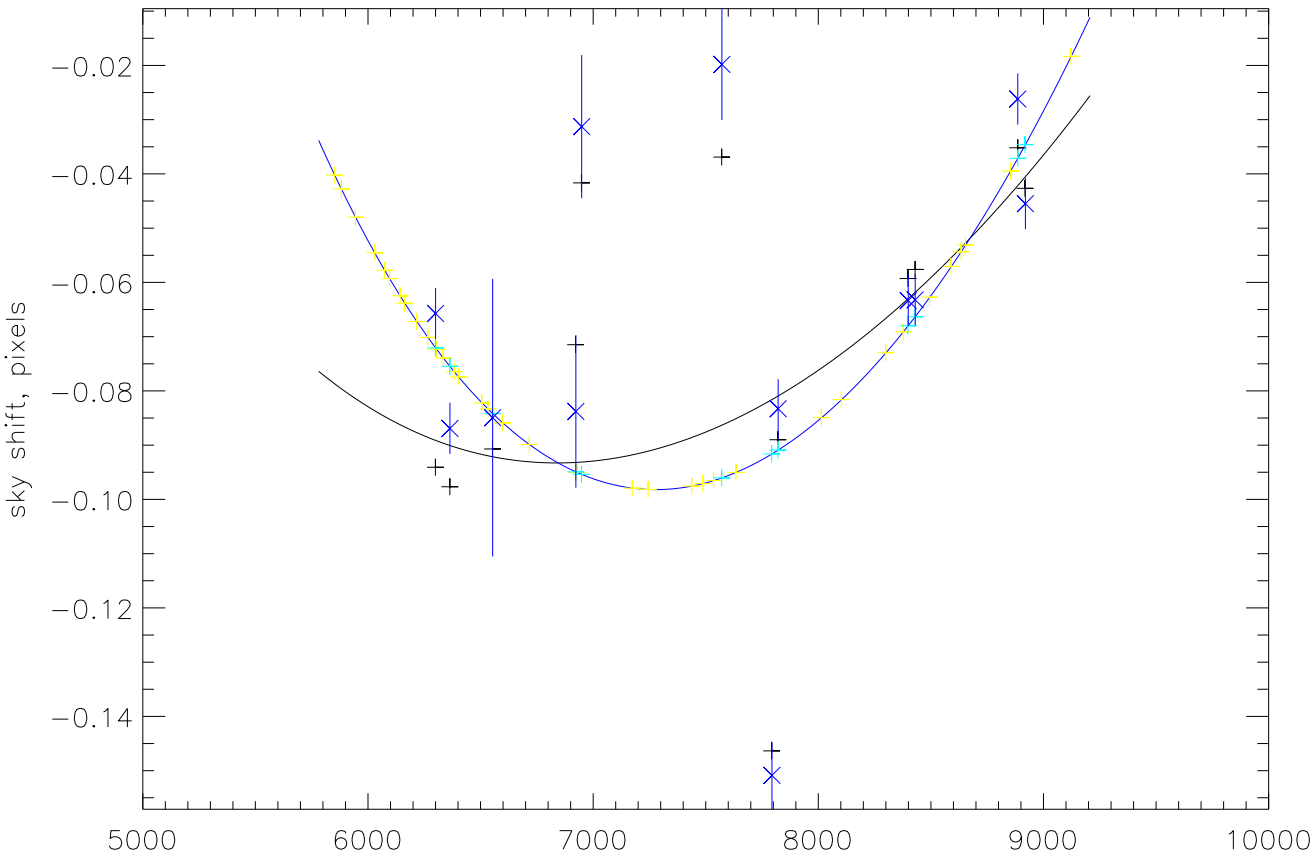

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

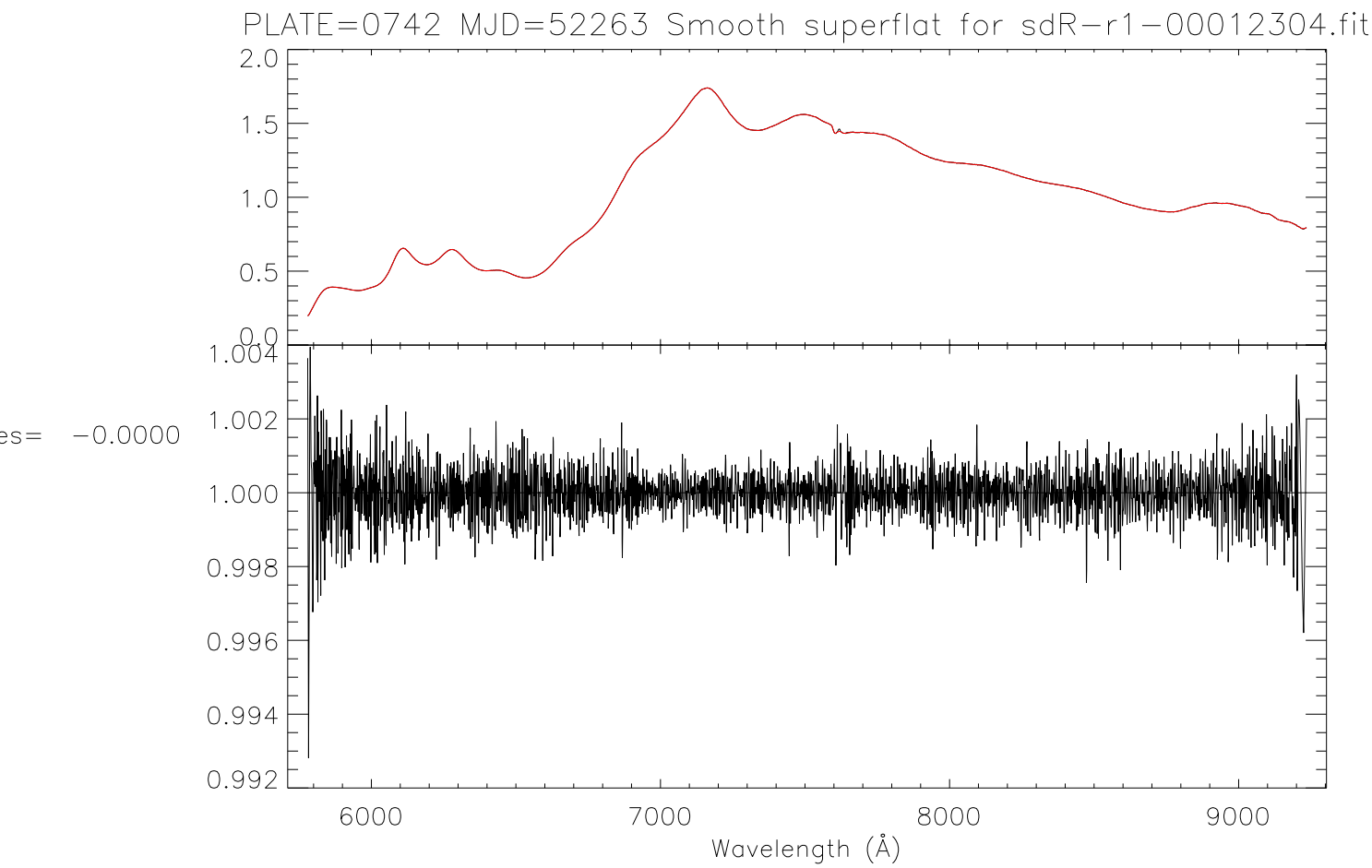

8430.1700
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

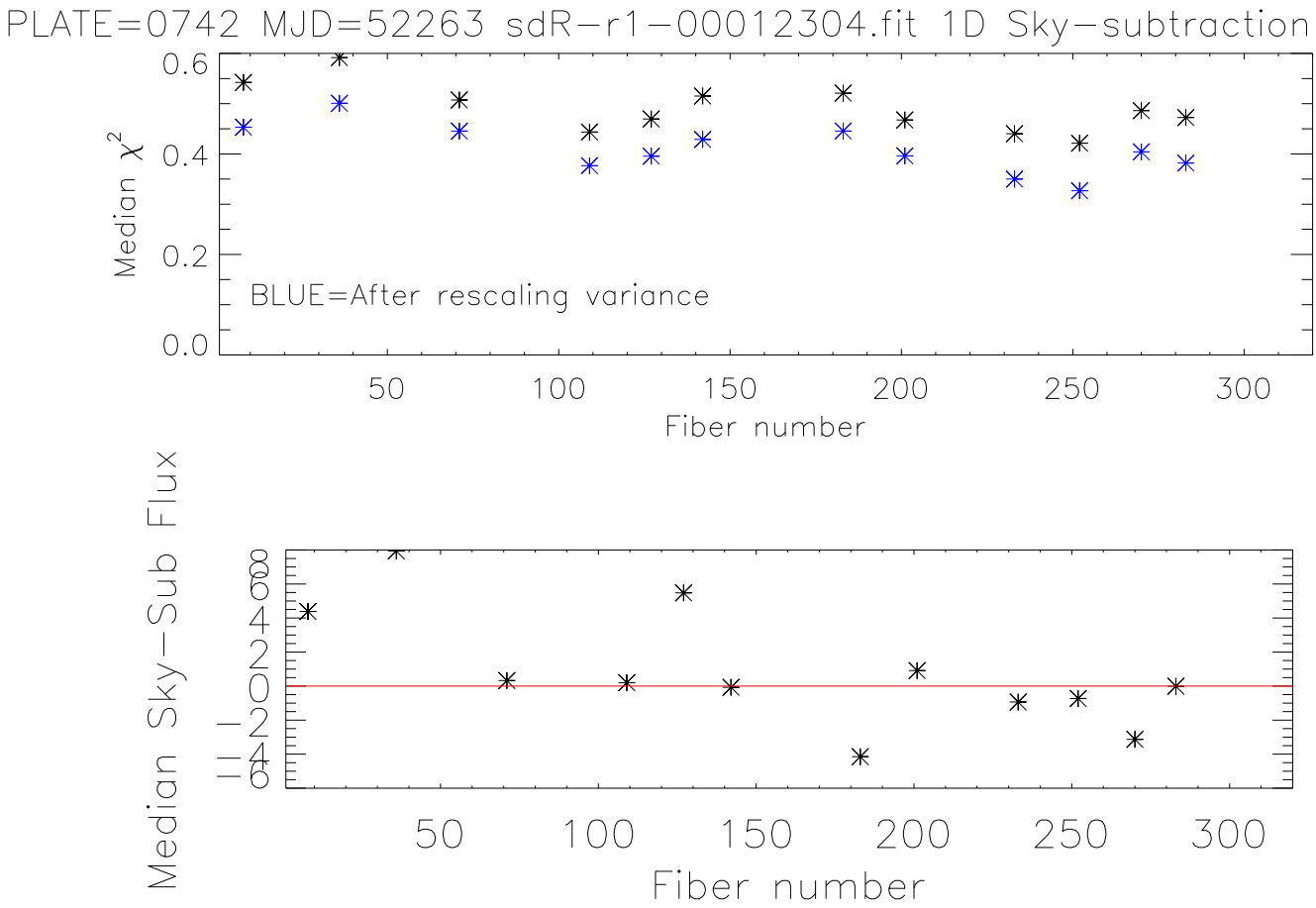

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

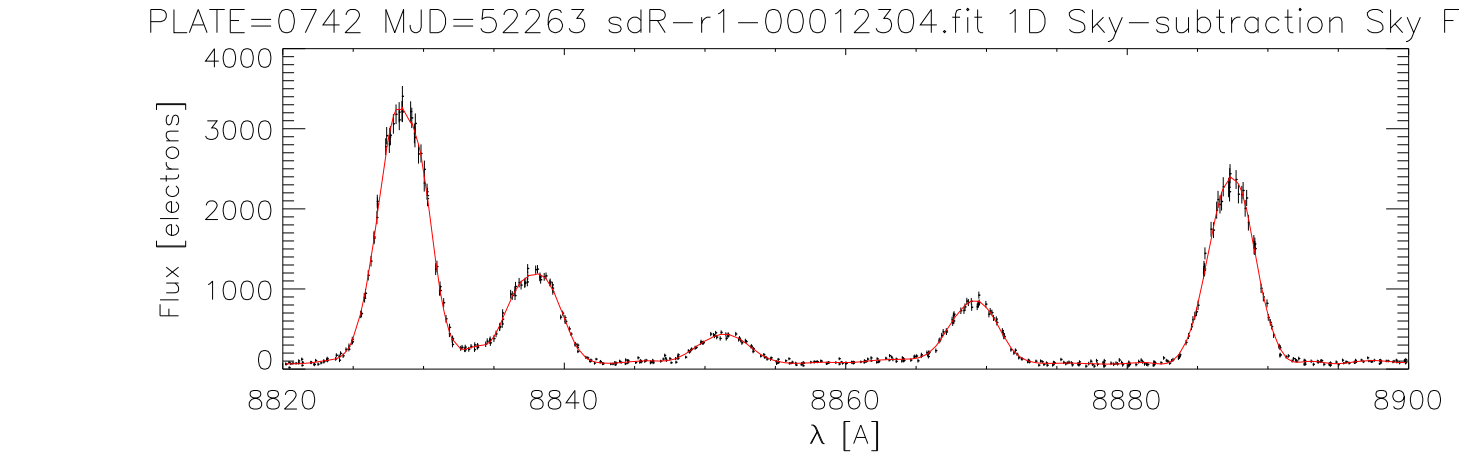

6300.3040
mfib1 15
mfib2 15
stdev 0.019
extra 0.07
6363.7760
mfib1 16
mfib2 14
stdev 0.025
extra 0.09
6553.6100
mfib1 16
mfib2 16
stdev 0.054
extra 0.08
6923.2100
mfib1 16
mfib2 16
stdev 0.025
extra 0.08
6949.0300
mfib1 16
mfib2 16
stdev 0.058
extra 0.03
7571.7500
mfib1 16
mfib2 16
stdev 0.025
extra 0.02
7794.1200
mfib1 16
mfib2 16
stdev 0.023
extra 0.03
7821.5100
mfib1 16
mfib2 16
stdev 0.022
extra 0.08
8399.1600
mfib1 16
mfib2 16
stdev 0.017
extra 0.06
8430.1700
mfib1 16
mfib2 15
stdev 0.021
extra 0.06
8885.8300
mfib1 15
mfib2 15
stdev 0.024
extra 0.03
8919.6100
mfib1 15
mfib2 15
stdev 0.024
extra 0.05
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

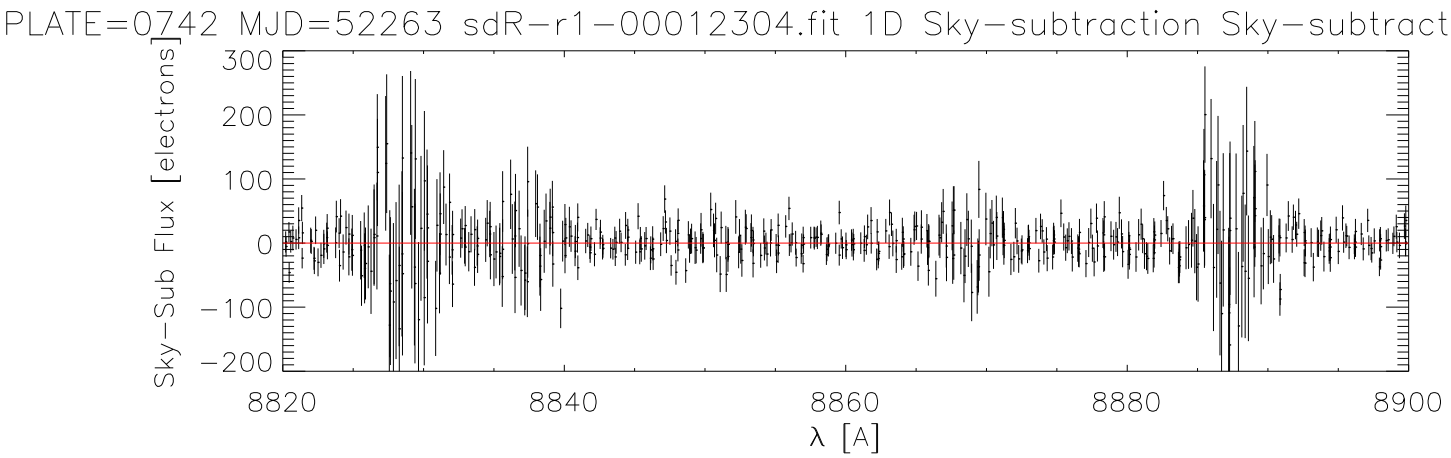

sky shift, pixels
−0.02
−0.04
−0.06
−0.08
−0.10
−0.12
−0.14
5000
6000
7000
8000
9000
10000

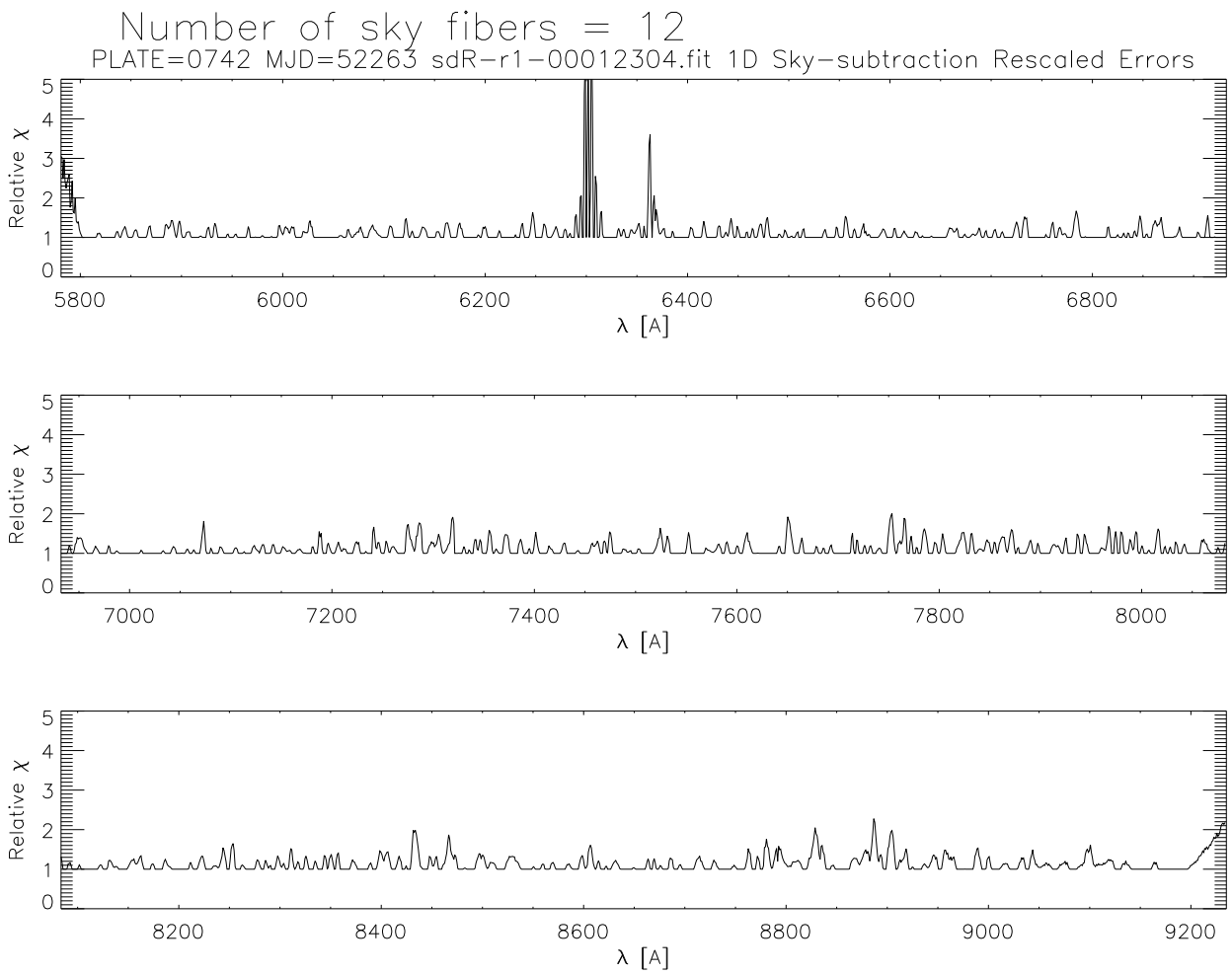

PLATE=0742 MJD=52263 Smooth superflat for sdR-r1-00012304.fit
2.0
1.5
1.0
0.5
0.0
1.004
1.002
1.000
0.998
0.996
0.994
0.992
6000
7000
8000
9000
Wavelength (Å)

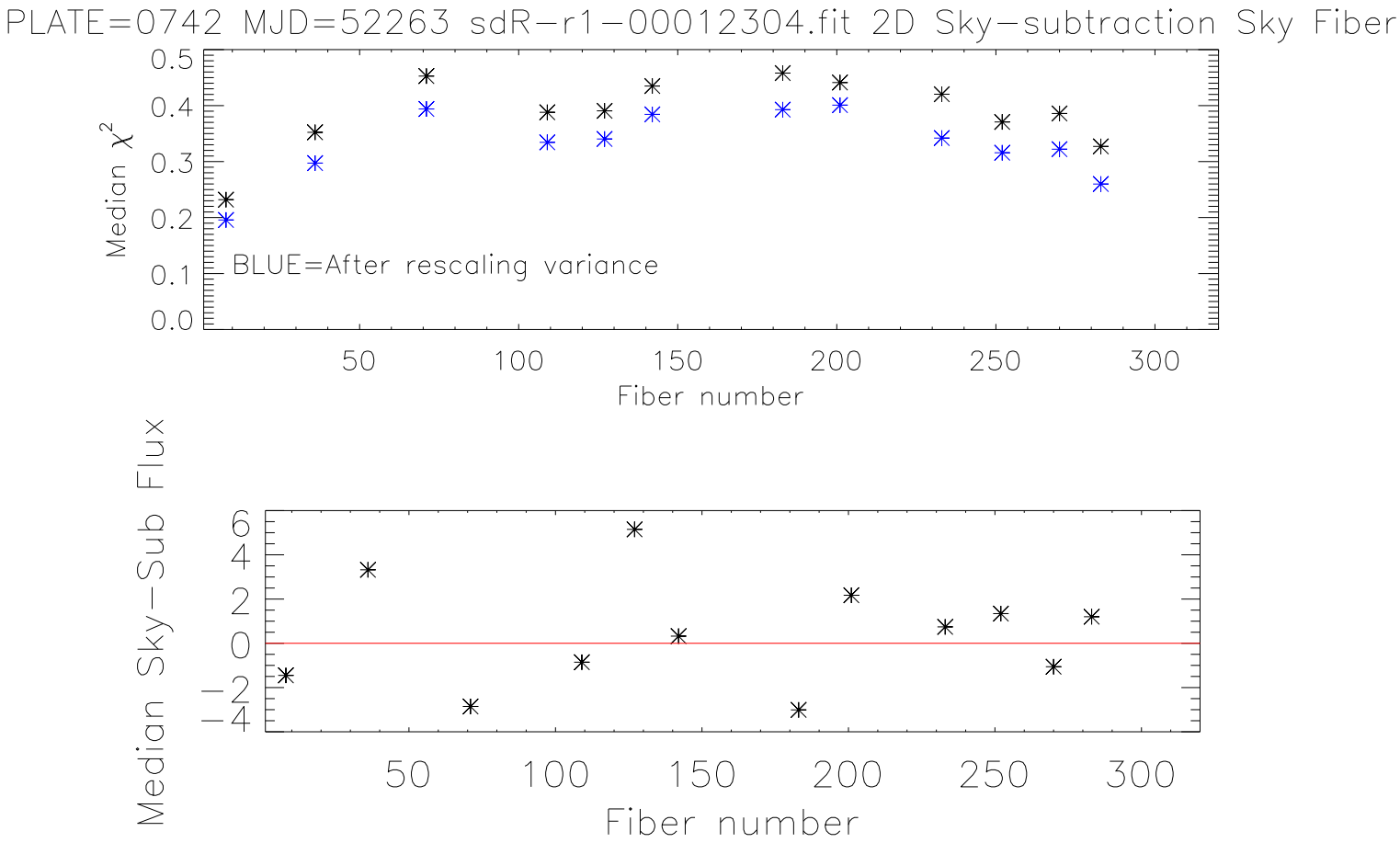
es= −0.0000

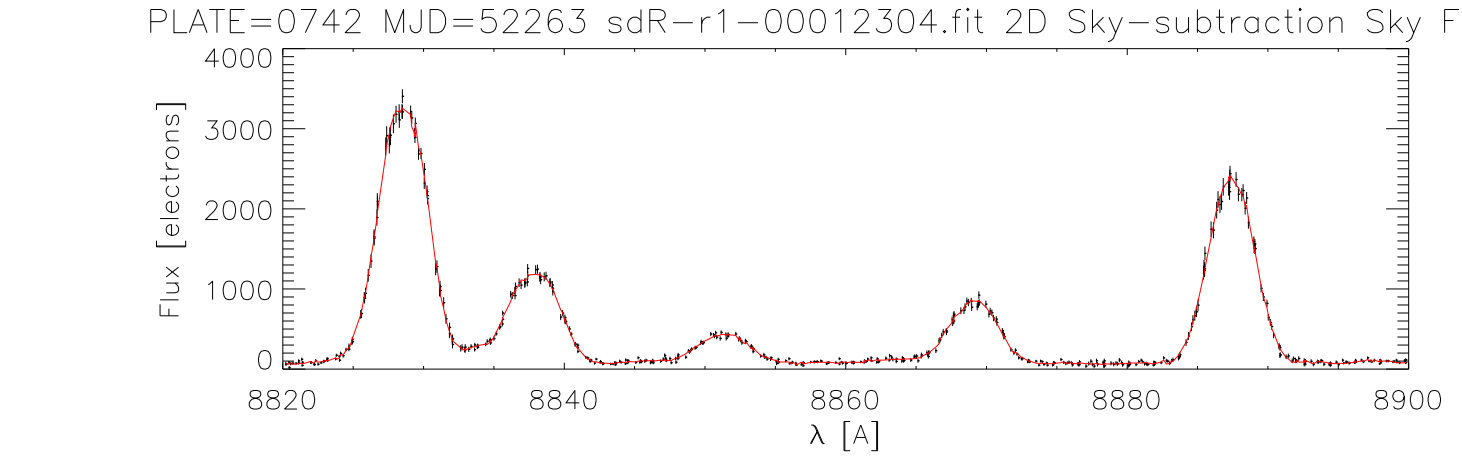

PLATE=0742 MJD=52263 sdR-r1-00012304.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-11
-4
2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

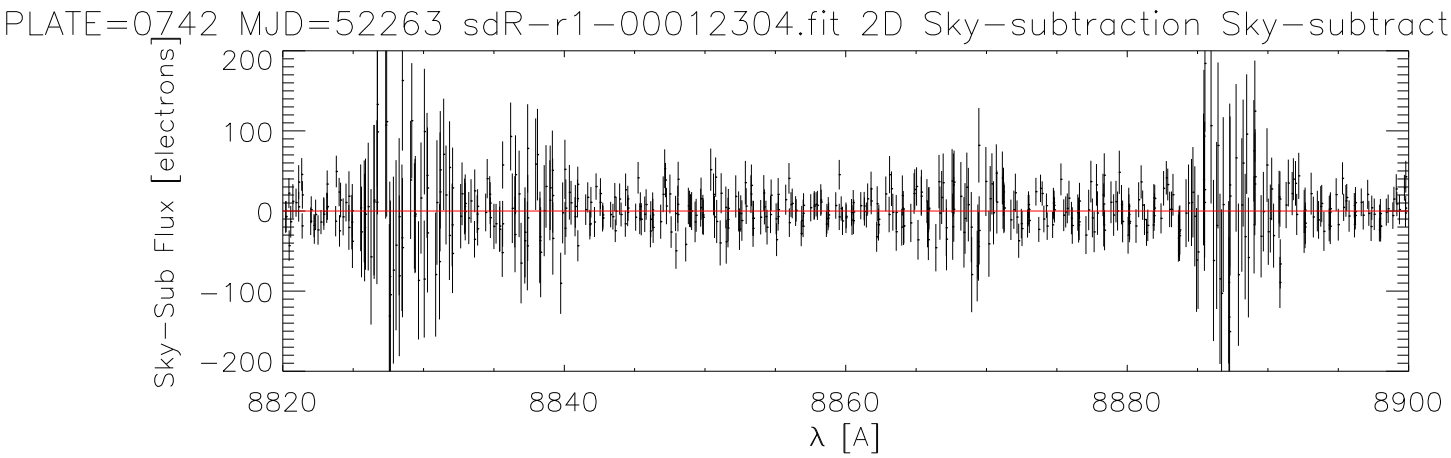

PLATE=0742 MJD=52263 sdR-r1-00012304.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

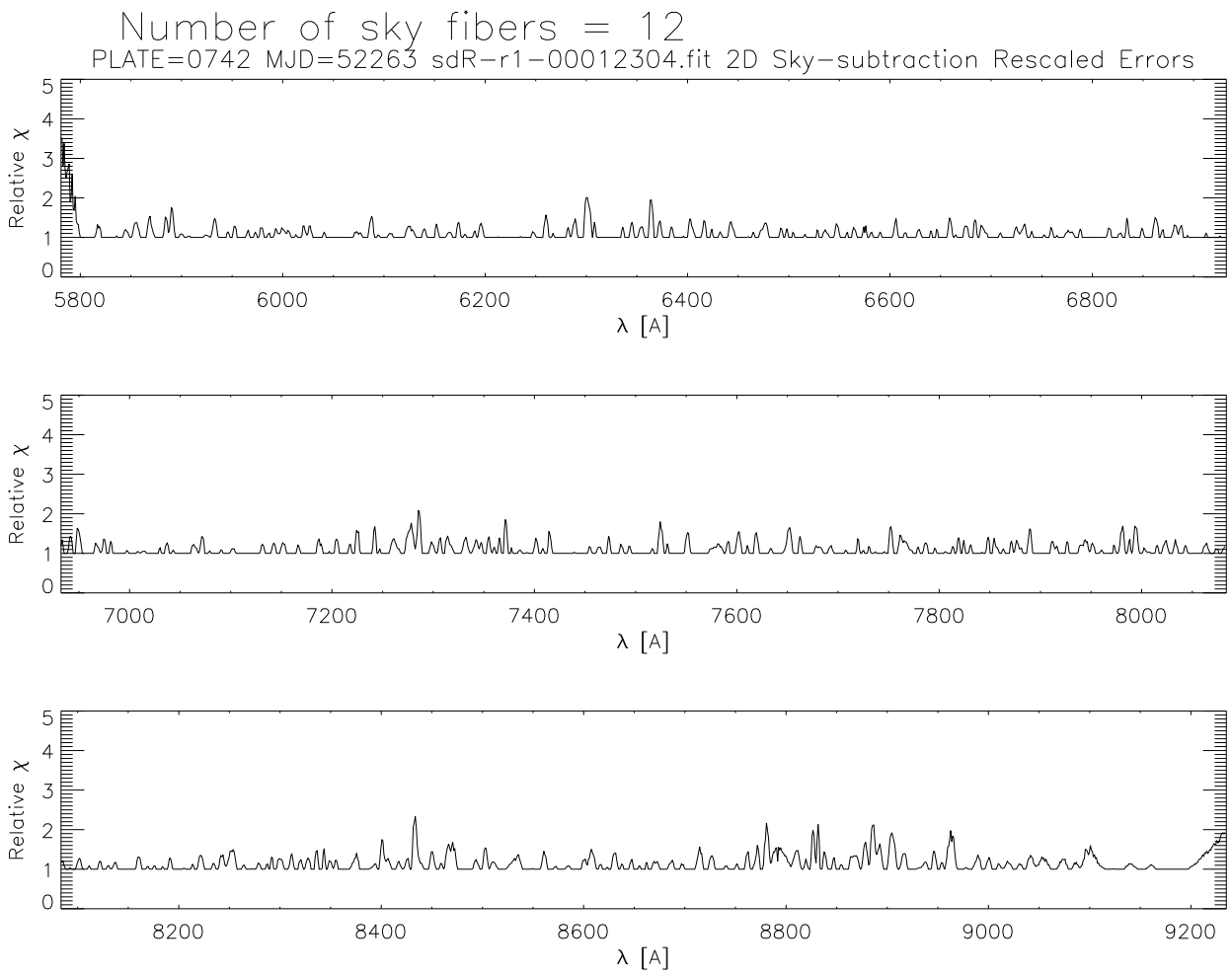

PLATE=0742 MJD=52263 sdR-r1-00012304.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

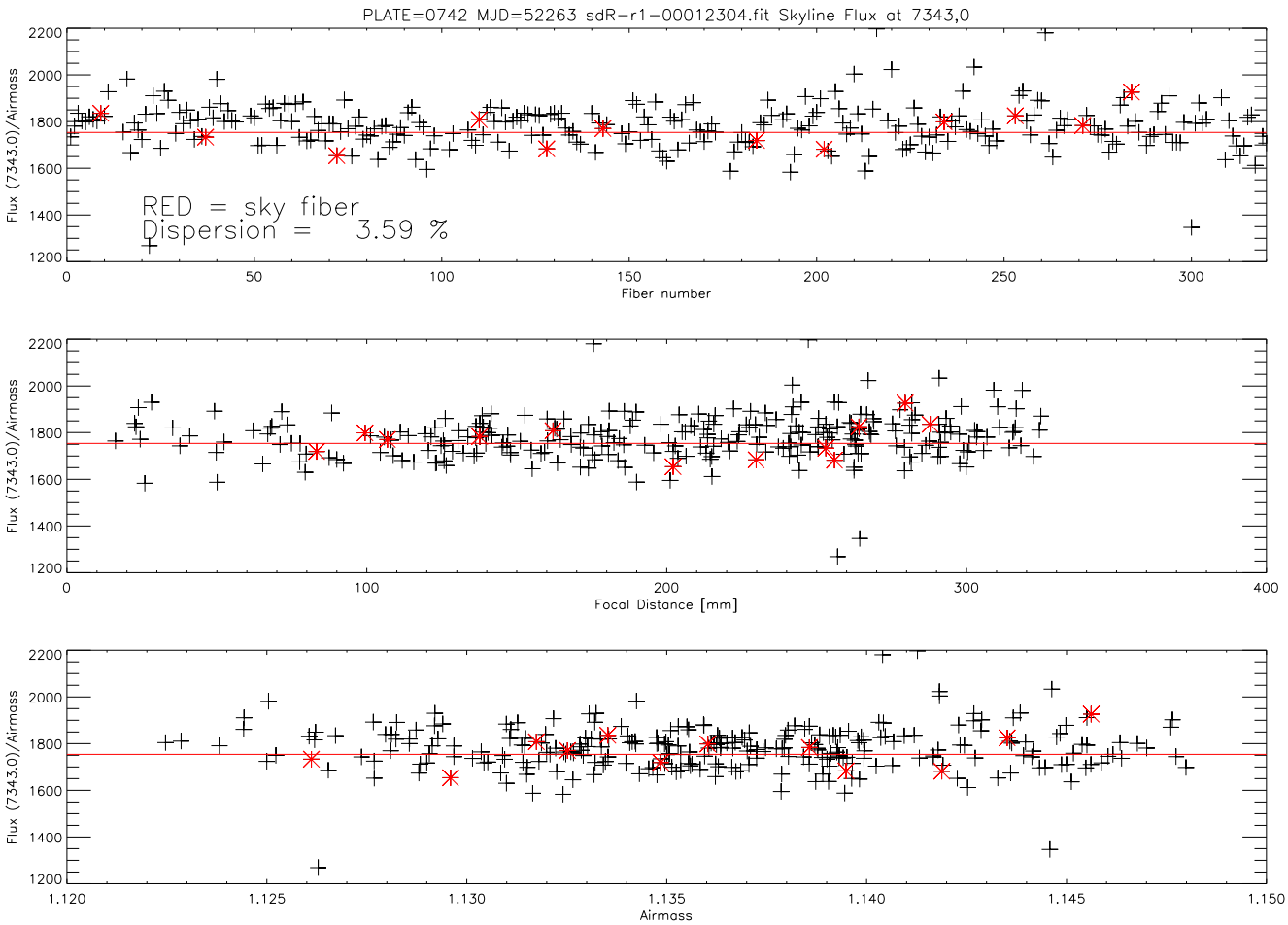

Number of sky fibers = 12
PLATE=0742 MJD=52263 sdR-r1-00012304.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

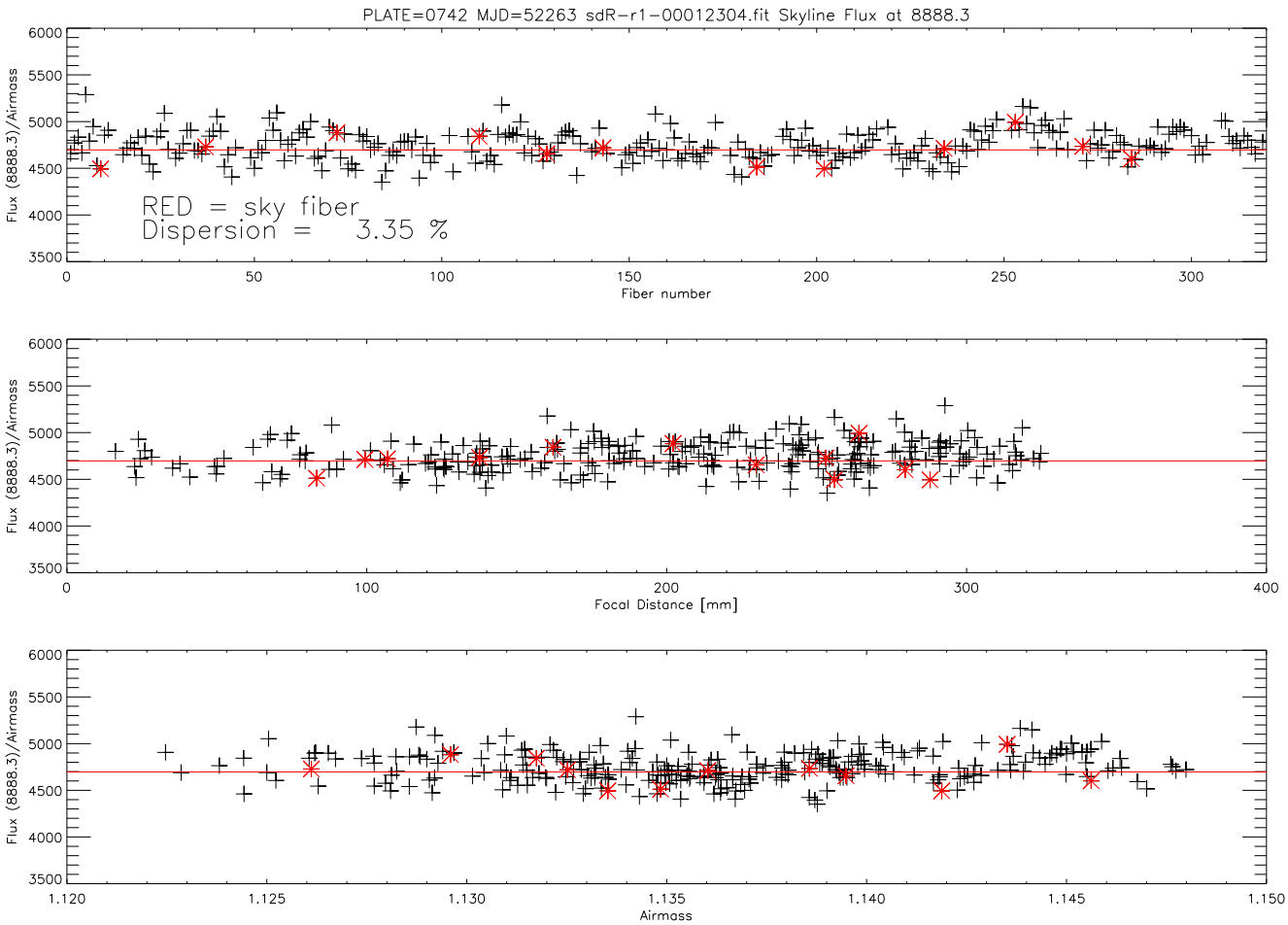

PLATE=0742 MJD=52263 sdR-r1-00012304.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

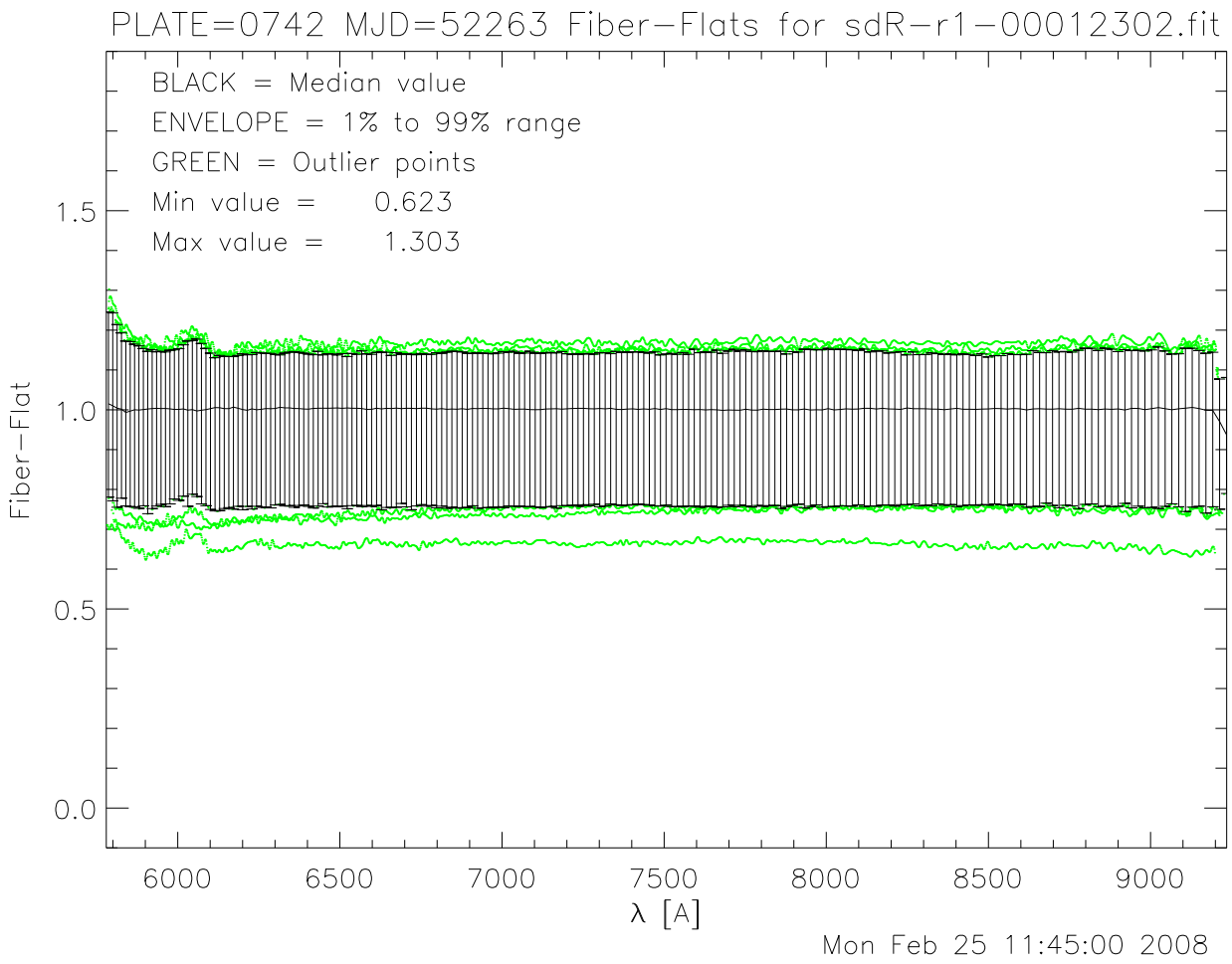

PLATE=0742 MJD=52263 sdR-r1-00012304.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

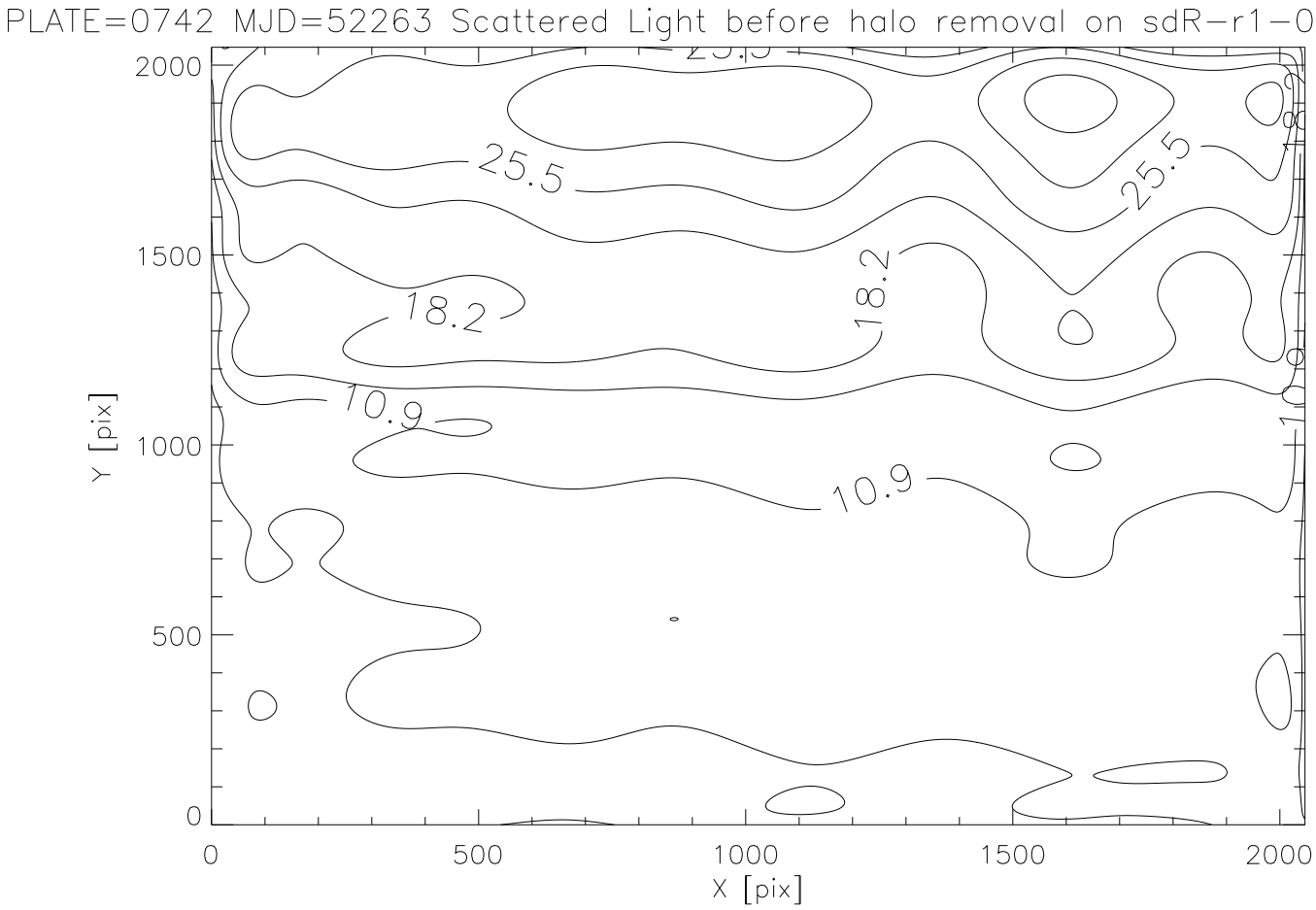

PLATE=0742 MJD=52263 sdR-r1-00012304.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

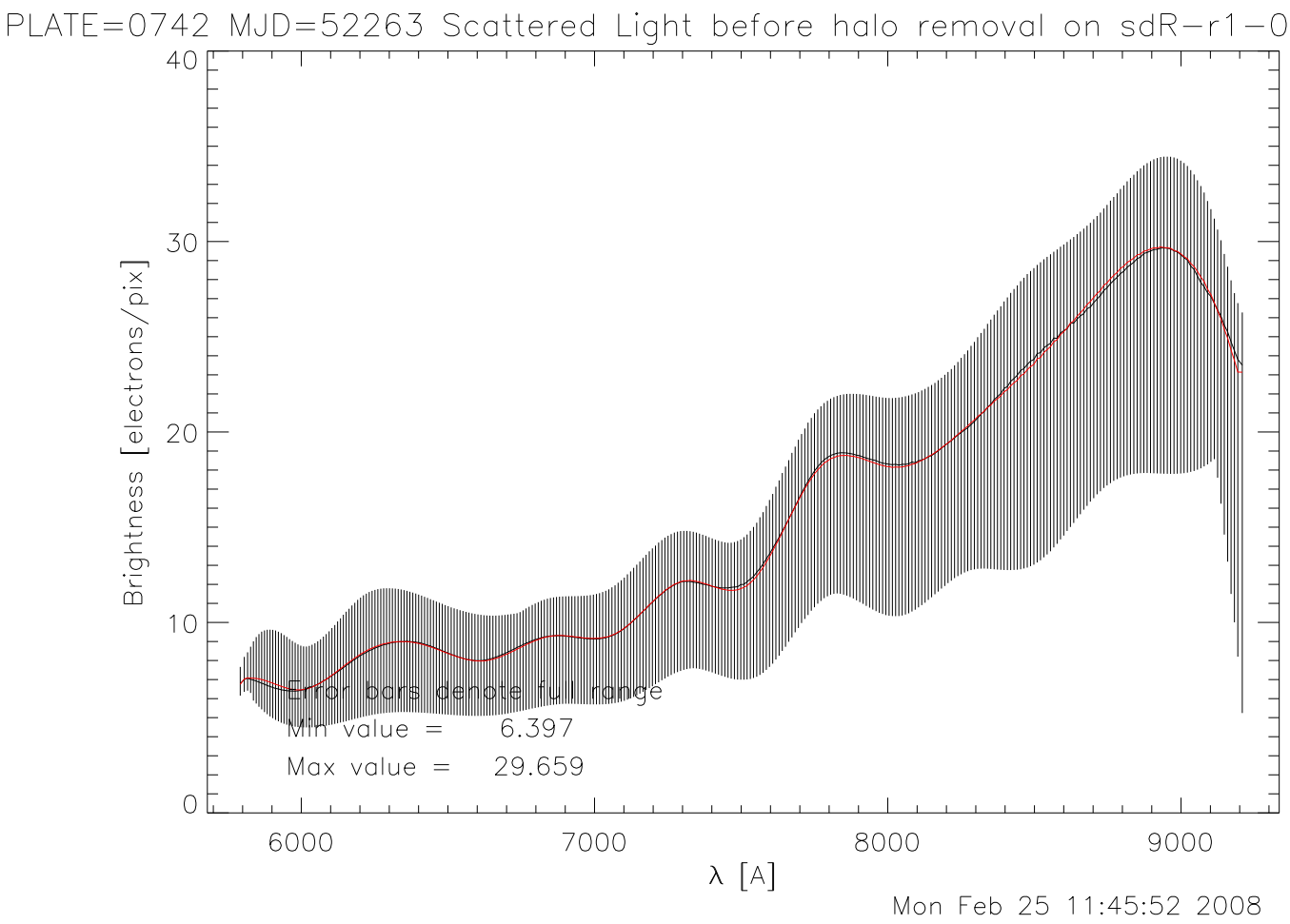

Number of sky fibers = 12
PLATE=0742 MJD=52263 sdR-r1-00012304.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

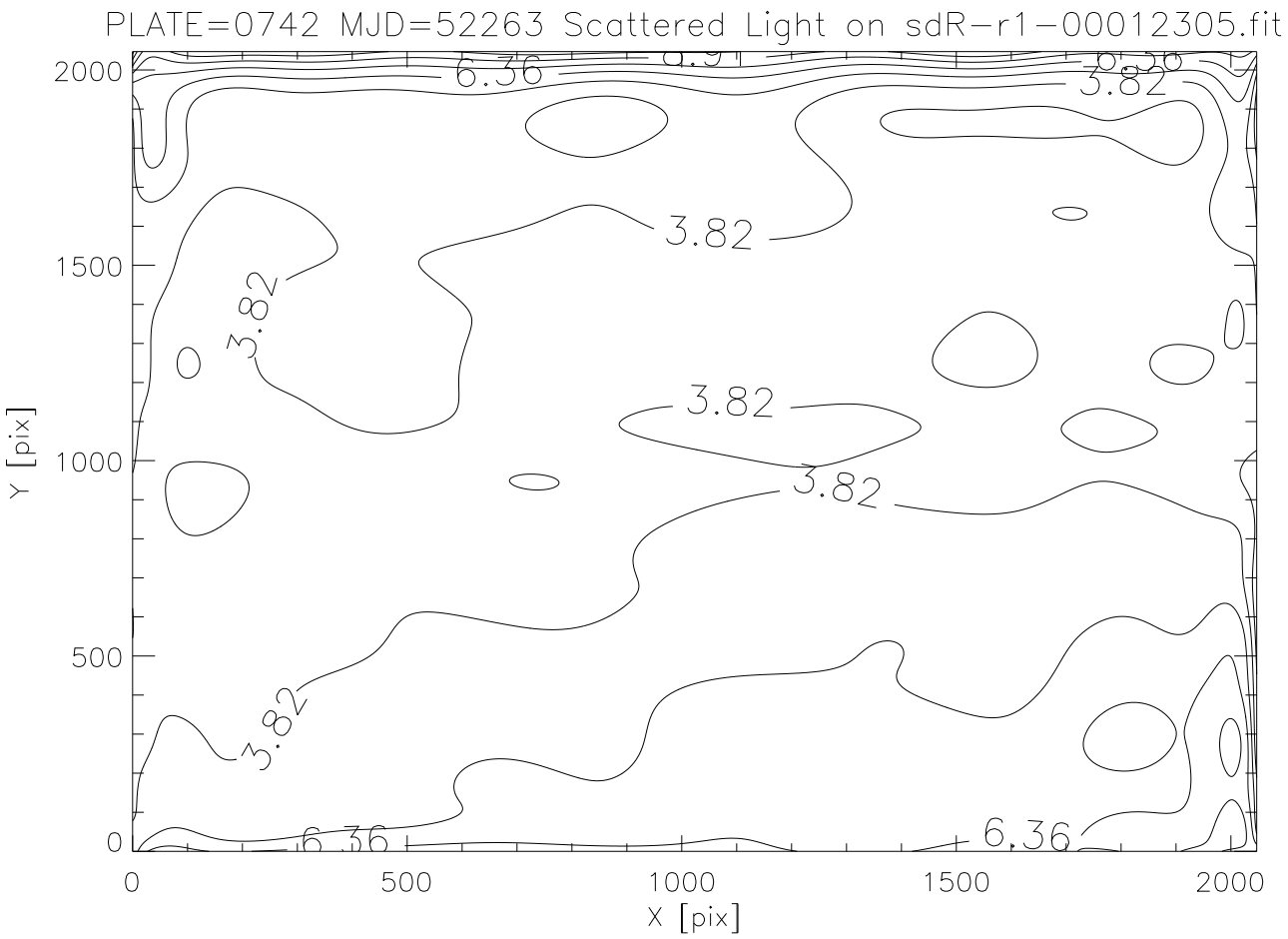

PLATE=0742 MJD=52263 sdR-r1-00012304.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.59 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

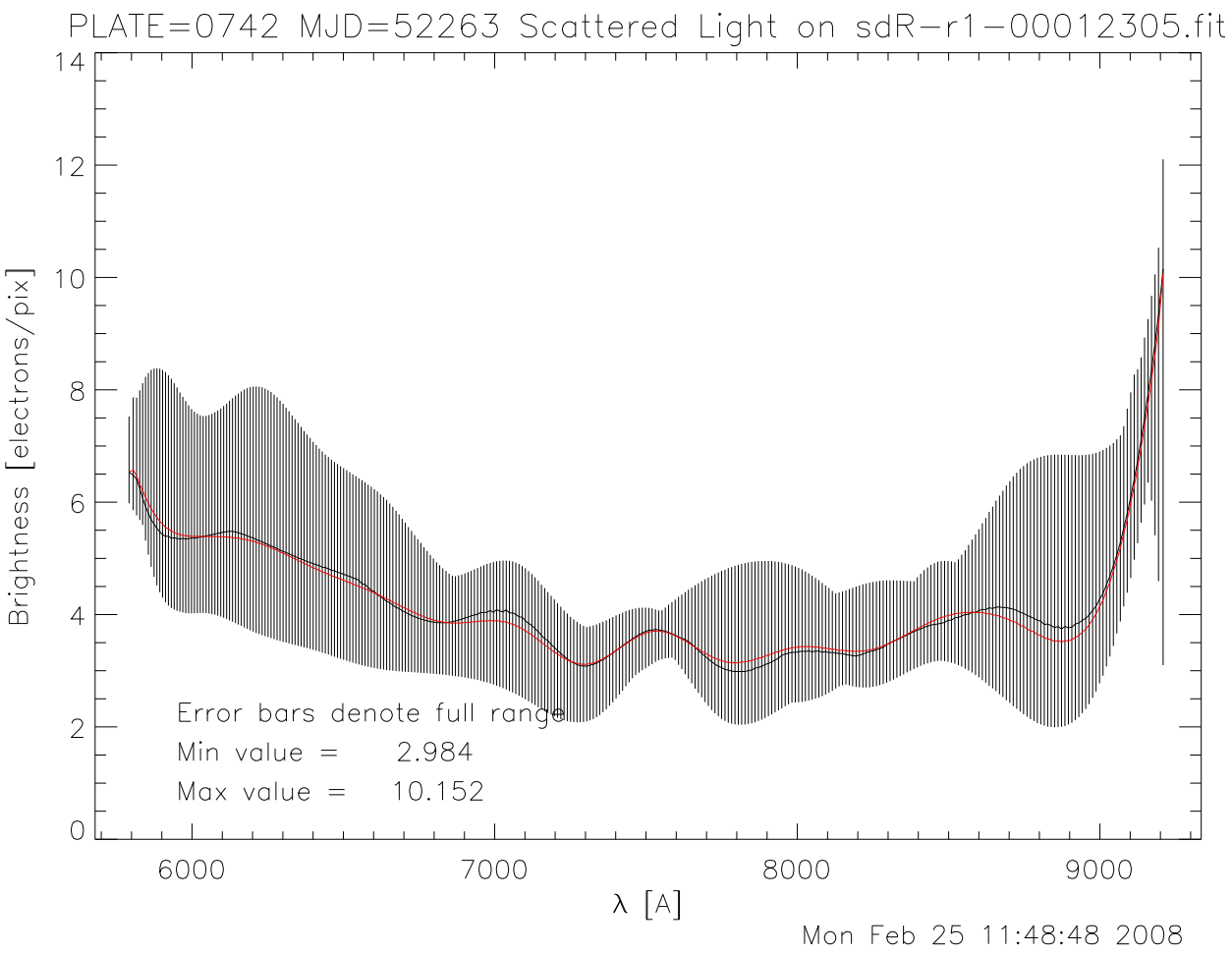

PLATE=0742 MJD=52263 sdR-r1-00012304.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.35 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

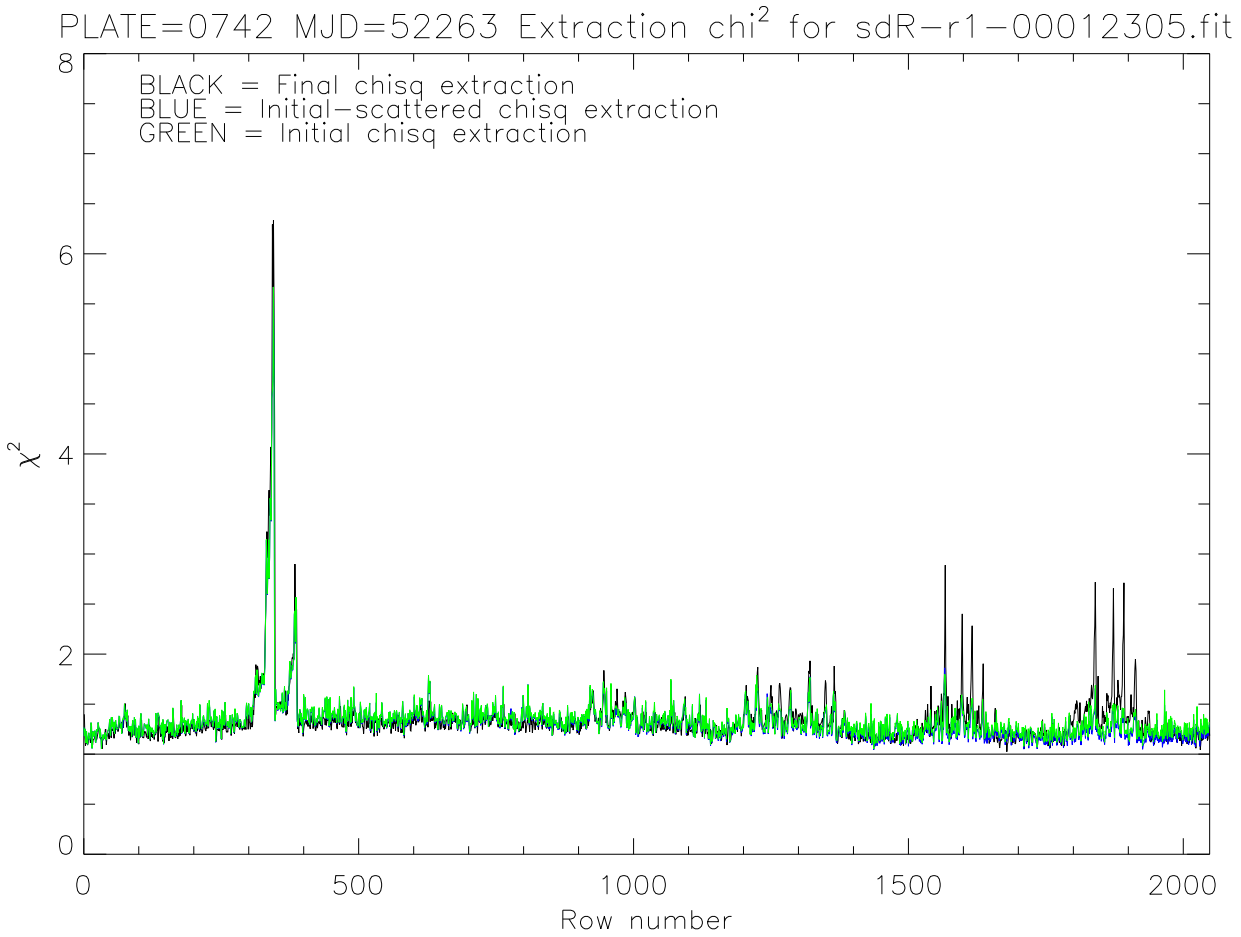

PLATE=0742 MJD=52263 Fiber−Flats for sdR−r1−00012302.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.623
Max value = 1.303
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 25 11:45:00 2008

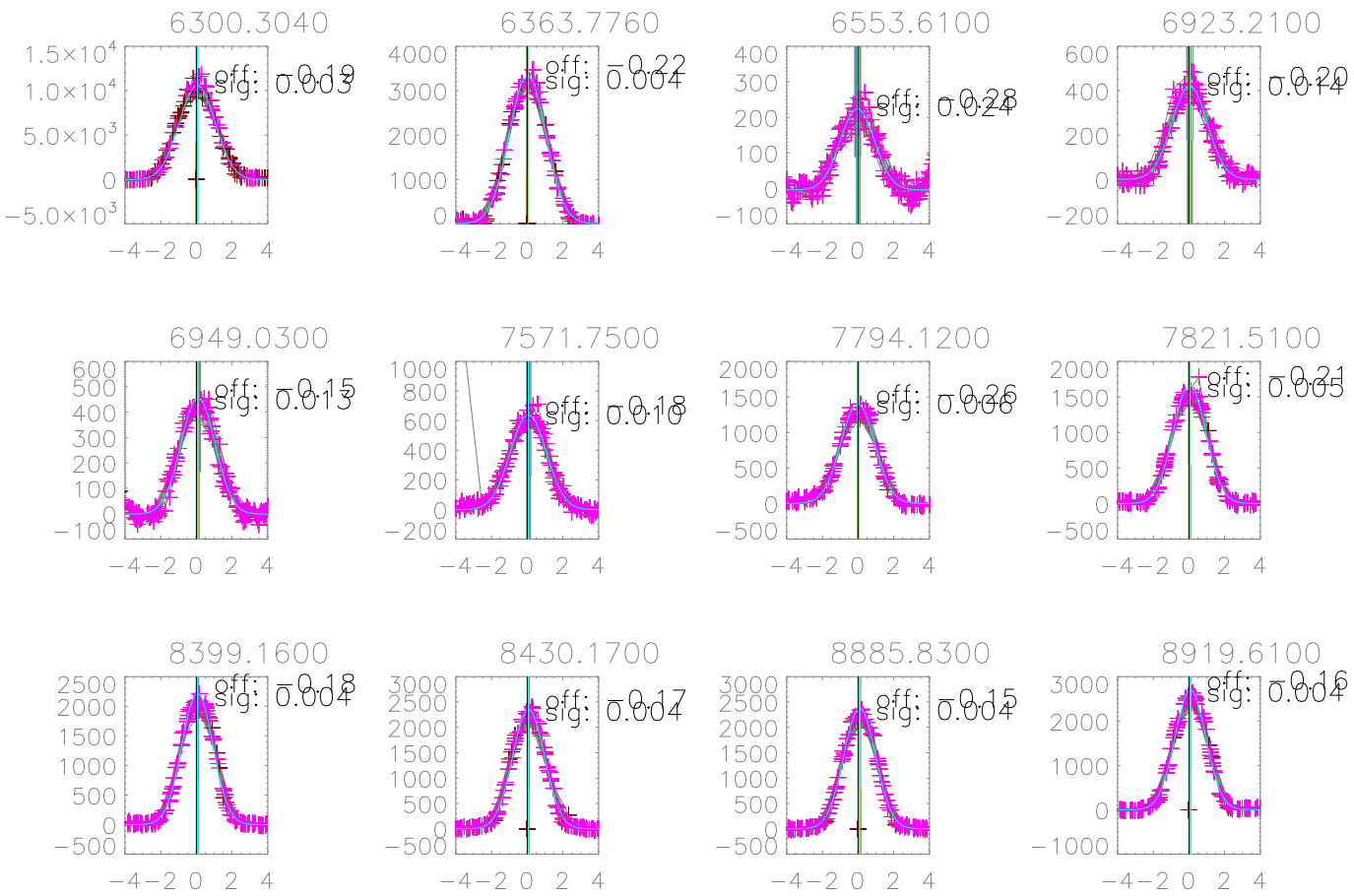

PLATE=0742 MJD=52263 Scattered Light before halo removal on sdR-r1-00012305.fi
25.5
25.5
18.2
18.2
10.9
10.9
Y [pix]
X [pix]
0
500
1000
1500
2000

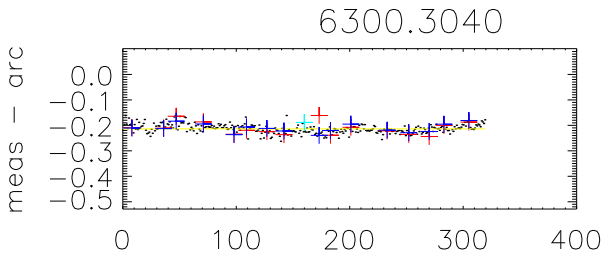

PLATE=0742 MJD=52263 Scattered Light before halo removal on sdR-r1-00012305.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.397
Max value = 29.659
Mon Feb 25 11:45:52 2008

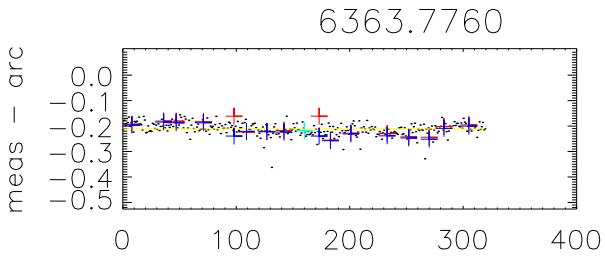

PLATE=0742 MJD=52263 Scattered Light on sdR−r1−00012305.fit
6.36
3.82
3.82
0
3.82
3.82
3.82
0
6.36
6.36
2000
1500
1000
500
0
0
500
1000
1500
2000
Y [pix]
X [pix]

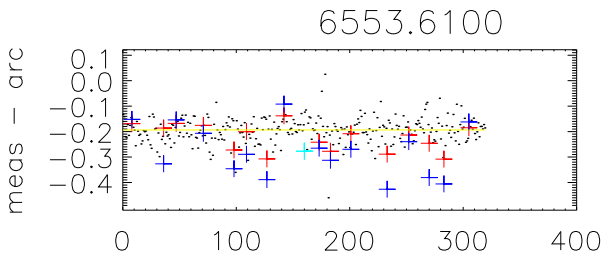

PLATE=0742 MJD=52263 Scattered Light on sdR-r1-00012305.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 2.984
Max value = 10.152
Mon Feb 25 11:48:48 2008

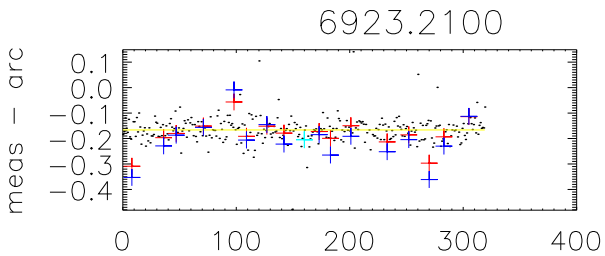

PLATE=0742 MJD=52263 Extraction chi^2 for sdR−r1−00012305.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

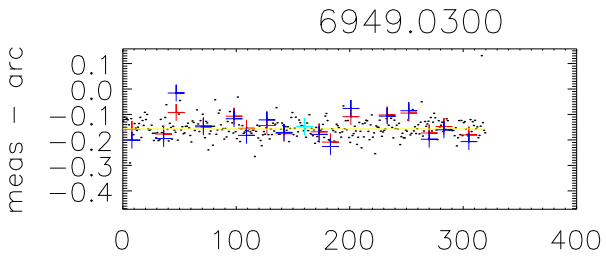

6300.3040
off: −0.19
sig: 0.003
6363.7760
off: −0.22
sig: 0.004
6553.6100
off: −0.28
sig: 0.024
6923.2100
off: −0.20
sig: 0.014
6949.0300
off: −0.15
sig: 0.013
7571.7500
off: −0.18
sig: 0.010
7794.1200
off: −0.26
sig: 0.008
7821.5100
off: −0.21
sig: 0.005
8399.1600
off: −0.18
sig: 0.004
8430.1700
off: −0.17
sig: 0.004
8885.8300
off: −0.15
sig: 0.004
8919.6100
off: −0.16
sig: 0.004

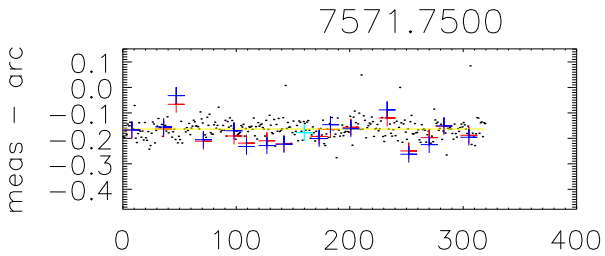

6300.3040
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

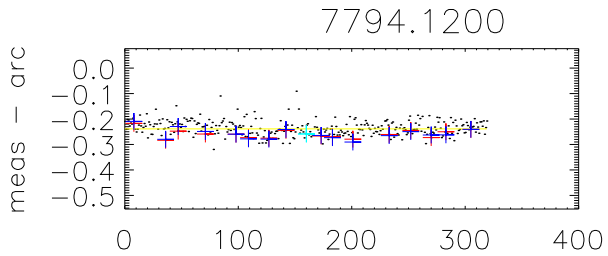

6363.7760
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

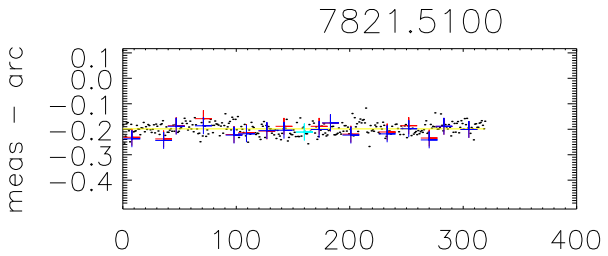

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

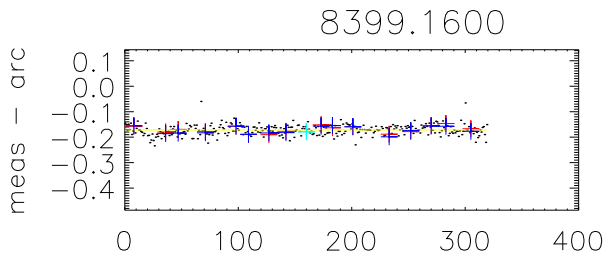

6923.2100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

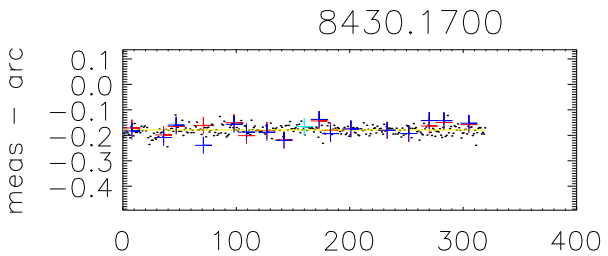

6949.0300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

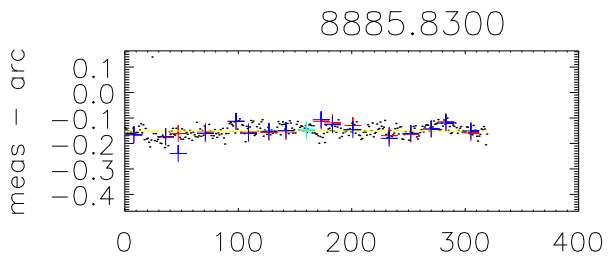

7571.7500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

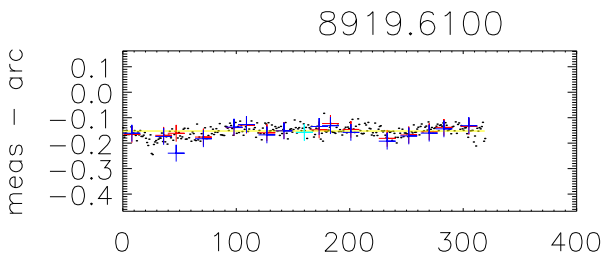

7794.1200
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

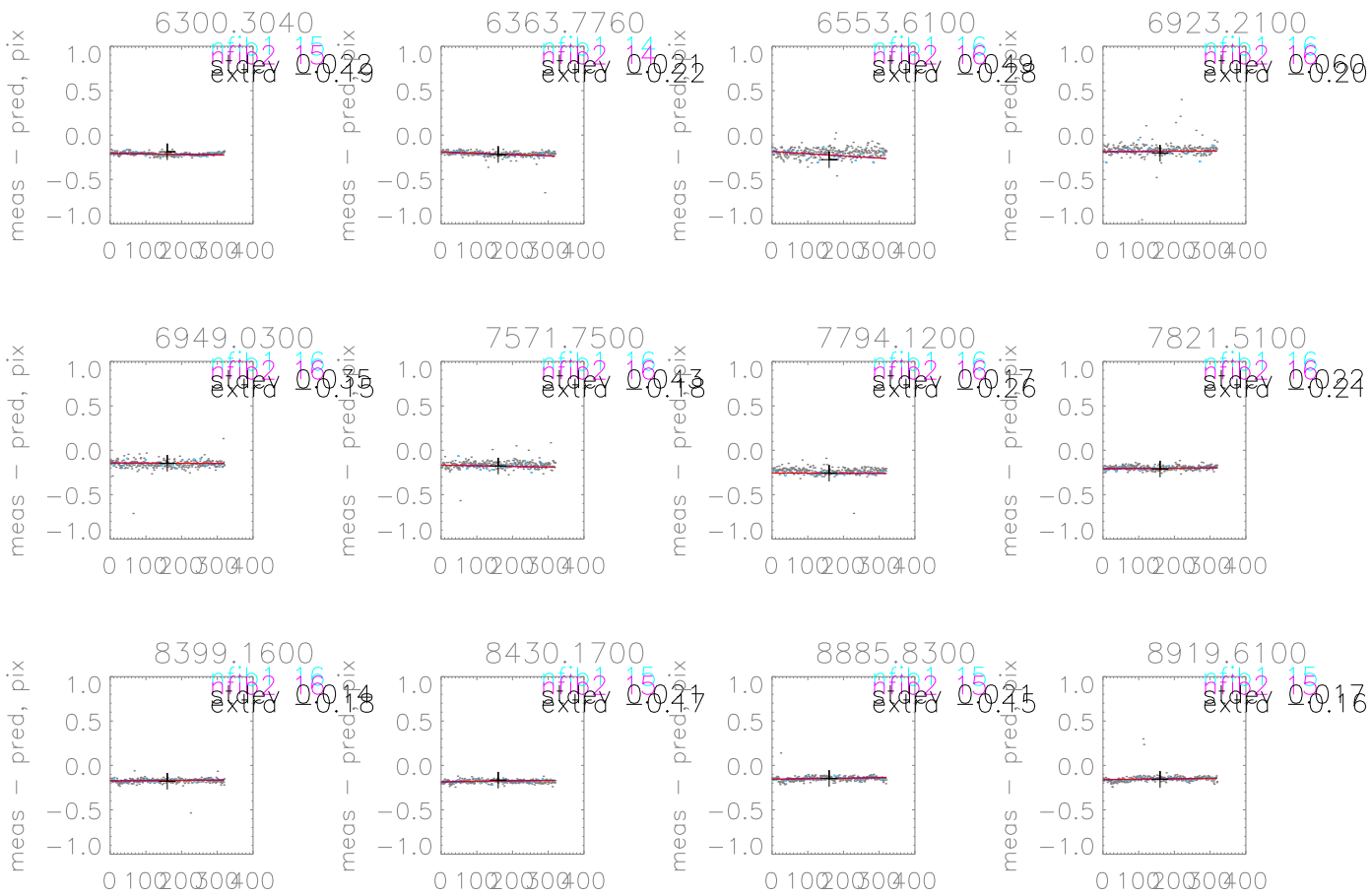

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

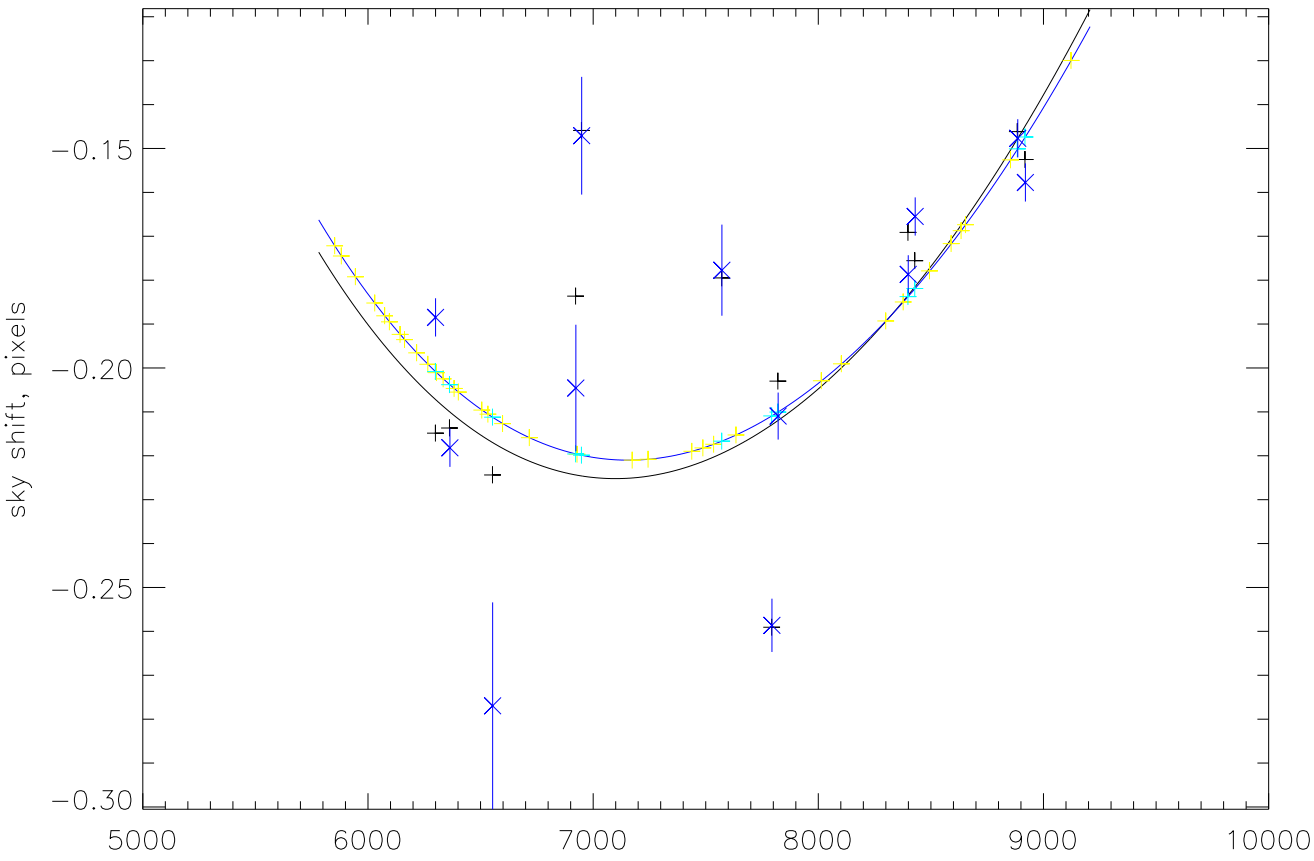

8399.1600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

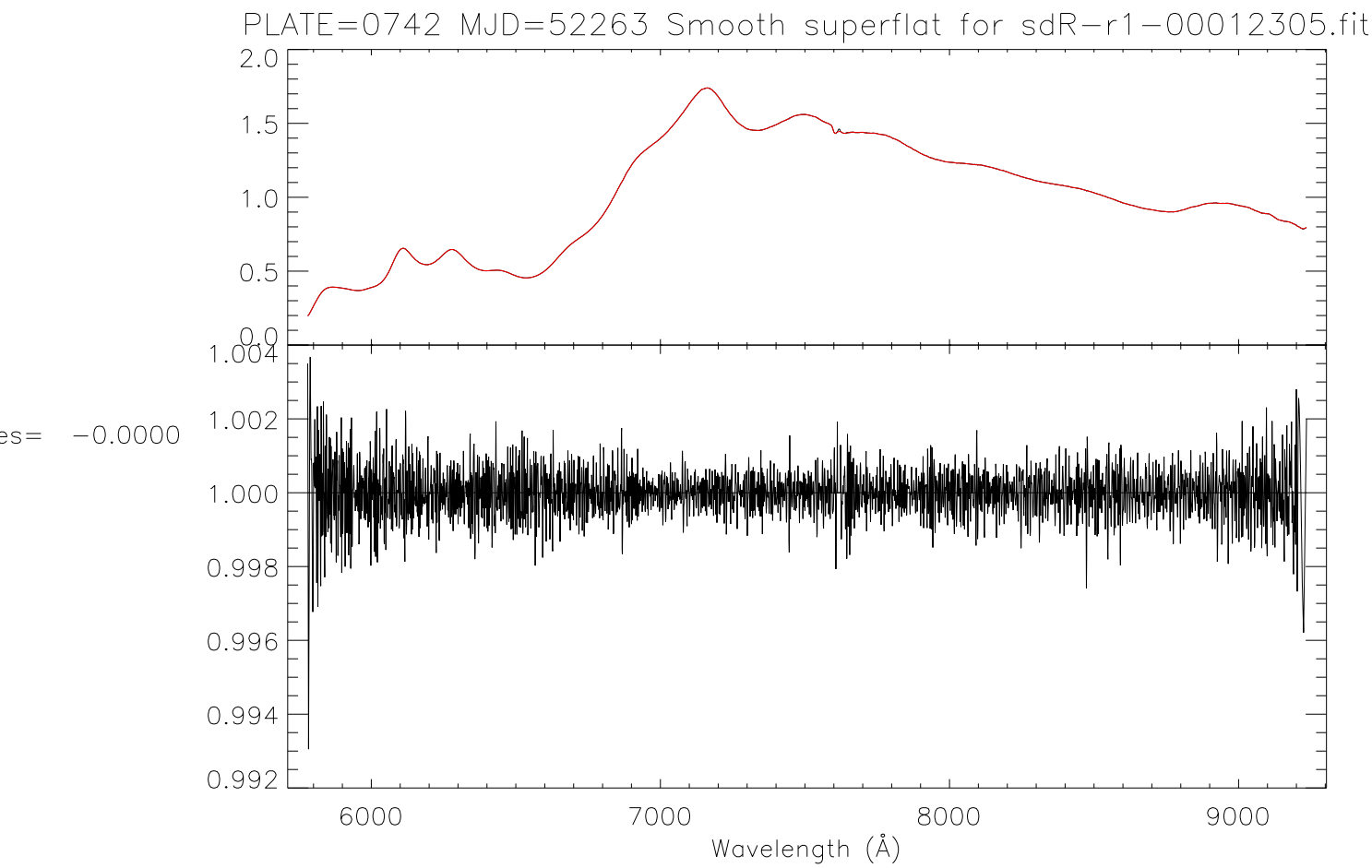

8430.1700
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


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

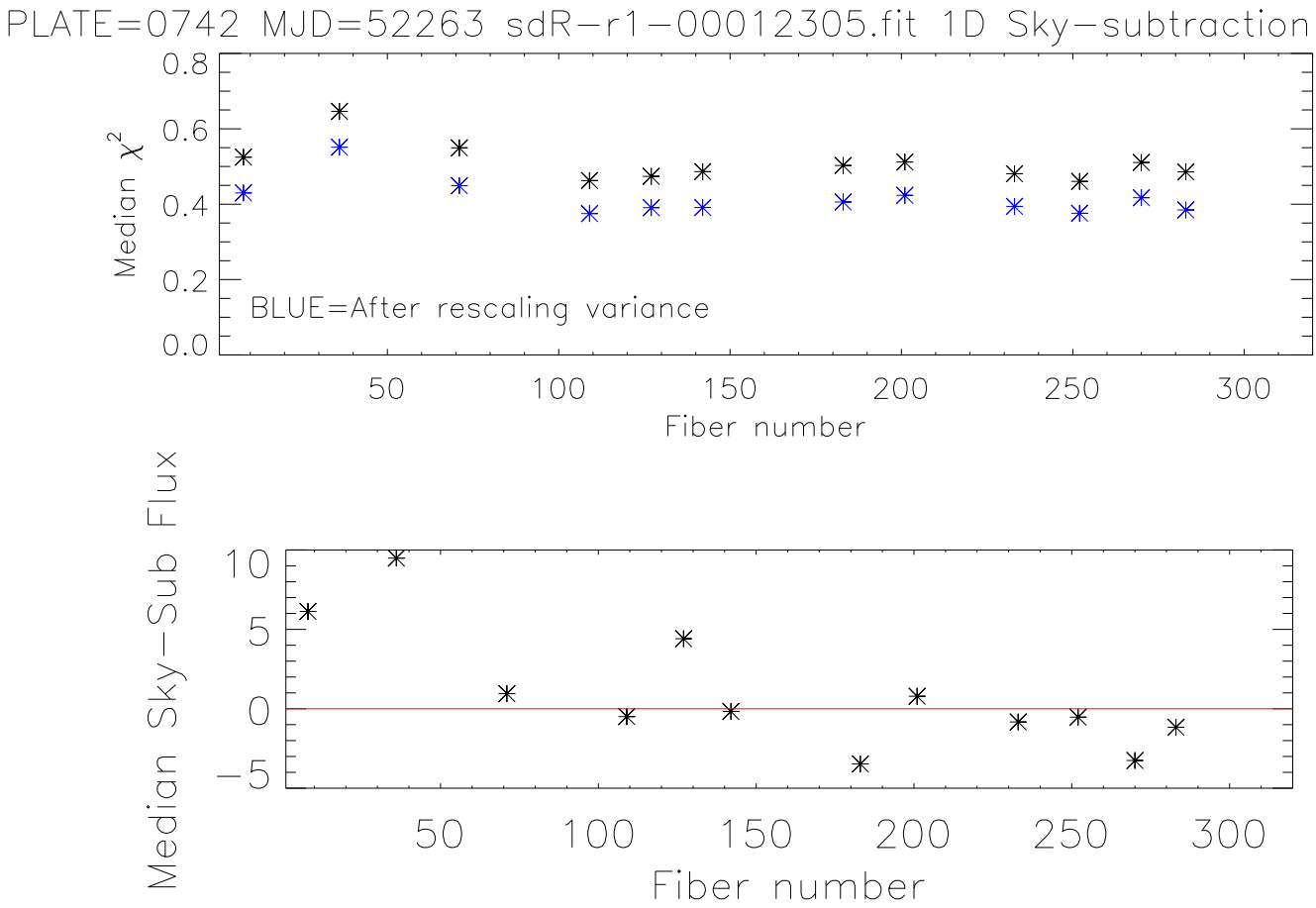

8919.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

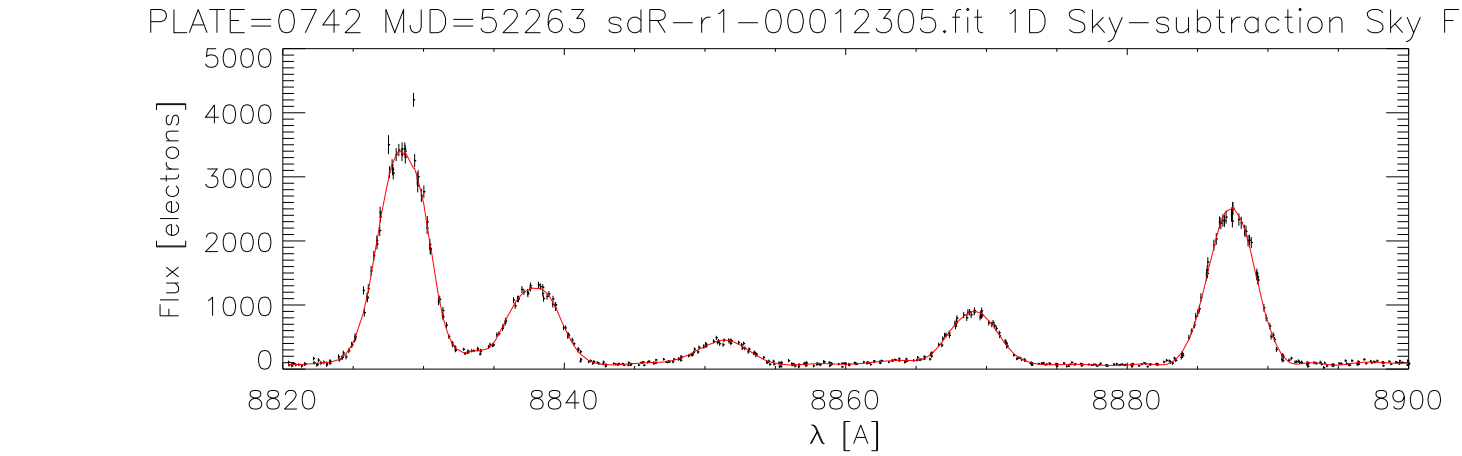

6300.3040
mfhi1 15
mfhi2 15
stdev 0.022
extra 0.49
6363.7760
mfhi1 14
mfhi2 16
stdev 0.021
extra 0.22
6553.6100
mfhi1 16
mfhi2 15
stdev 0.049
extra 0.28
6923.2100
mfhi1 16
mfhi2 16
stdev 0.060
extra 0.20
6949.0300
mfhi1 16
mfhi2 16
stdev 0.035
extra 0.15
7571.7500
mfhi1 16
mfhi2 16
stdev 0.043
extra 0.18
7794.1200
mfhi1 16
mfhi2 16
stdev 0.017
extra 0.26
7821.5100
mfhi1 16
mfhi2 16
stdev 0.022
extra 0.24
8399.1600
mfhi1 16
mfhi2 16
stdev 0.014
extra 0.18
8430.1700
mfhi1 15
mfhi2 15
stdev 0.021
extra 0.47
8885.8300
mfhi1 15
mfhi2 15
stdev 0.021
extra 0.45
8919.6100
mfhi1 15
mfhi2 15
stdev 0.017
extra 0.16
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

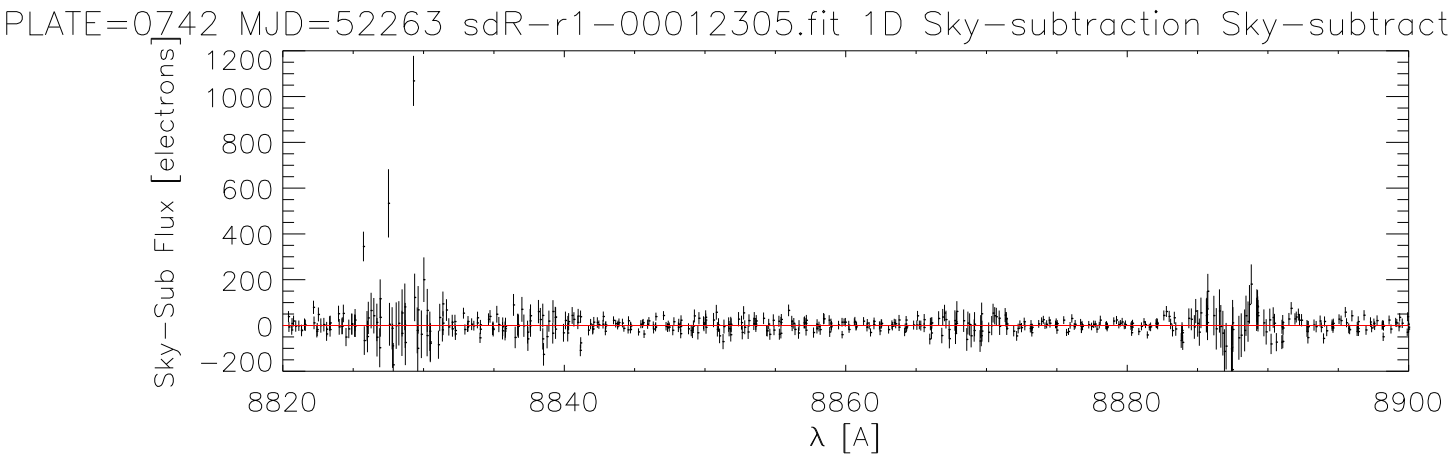

sky shift, pixels
−0.15
−0.20
−0.25
−0.30
5000
6000
7000
8000
9000
10000

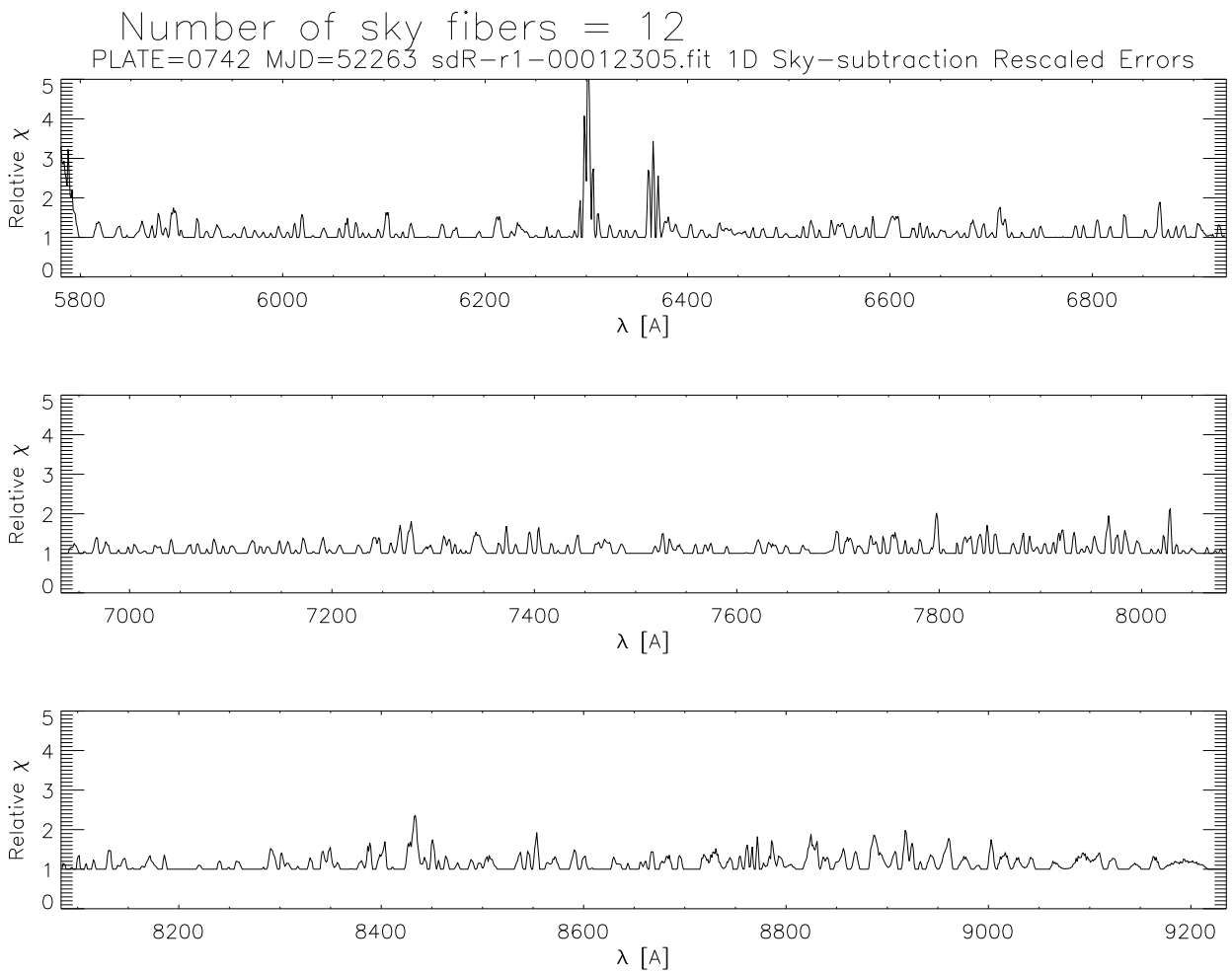

PLATE=0742 MJD=52263 Smooth superflat for sdR-r1-00012305.fit
2.0
1.5
1.0
0.5
0.0
1.004
1.002
1.000
0.998
0.996
0.994
0.992
6000
7000
8000
9000
Wavelength (Å)

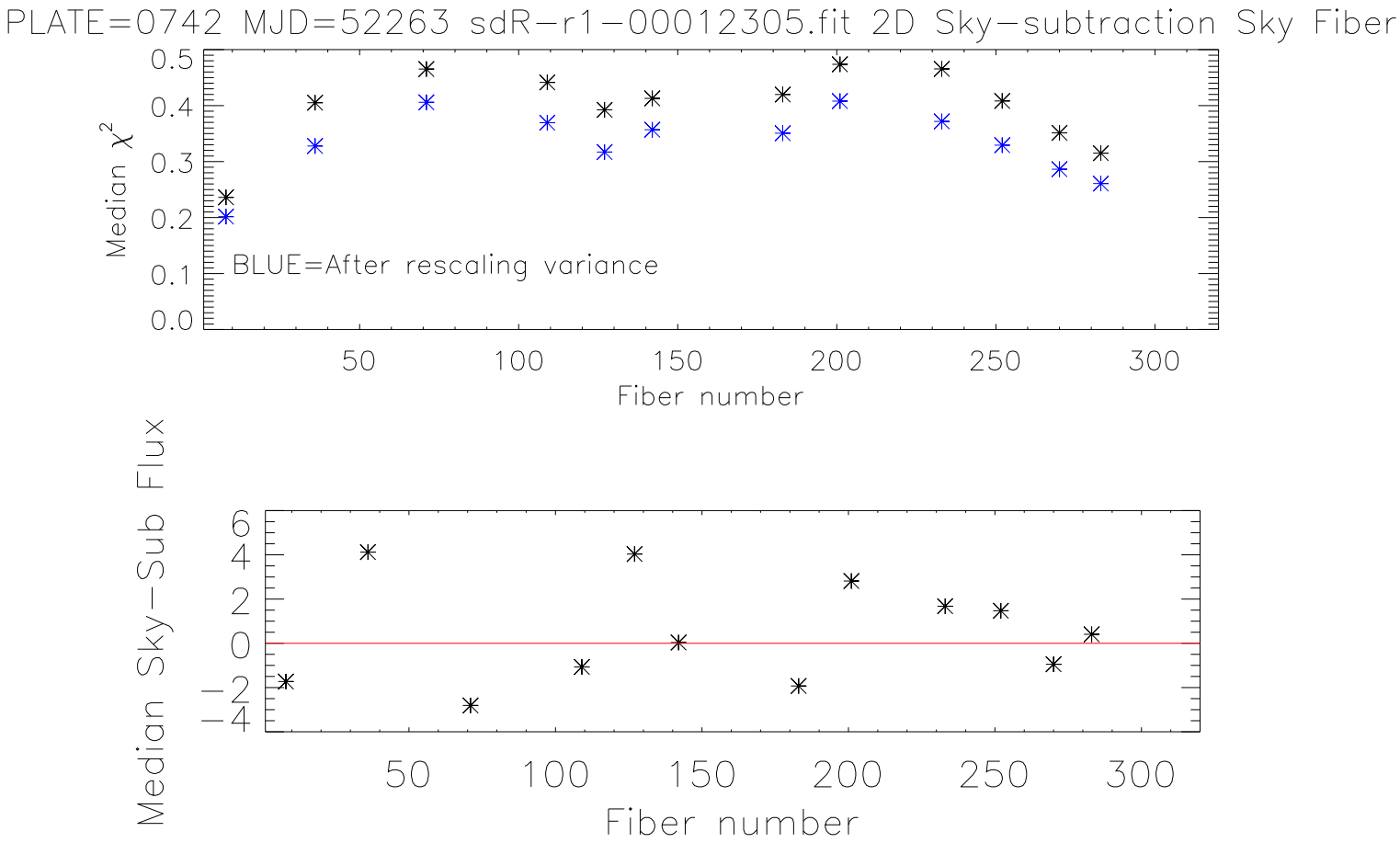
es= −0.0000

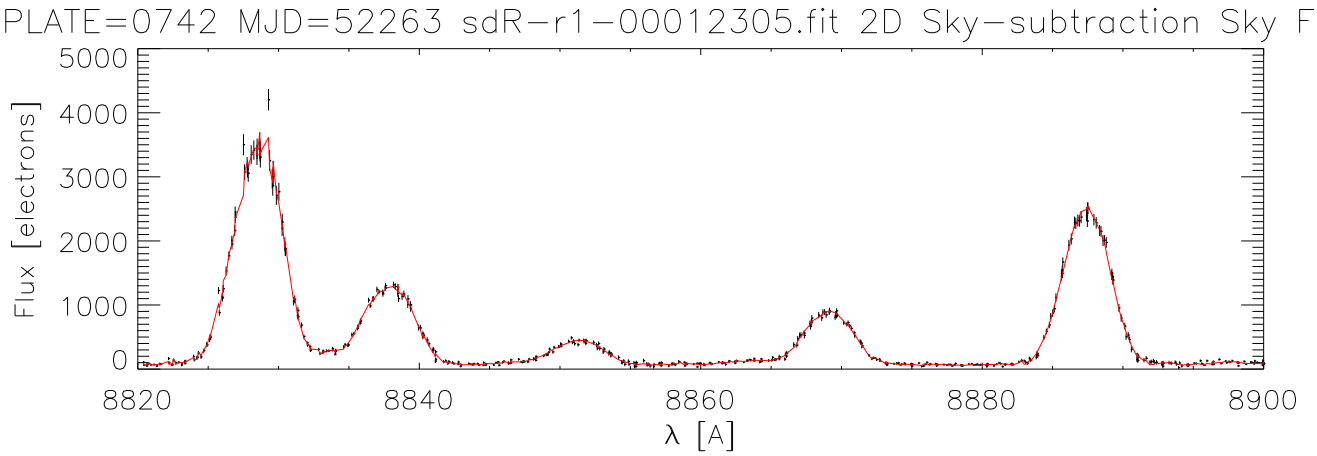

PLATE=0742 MJD=52263 sdR-r1-00012305.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
50
100
150
200
250
300
Fiber number

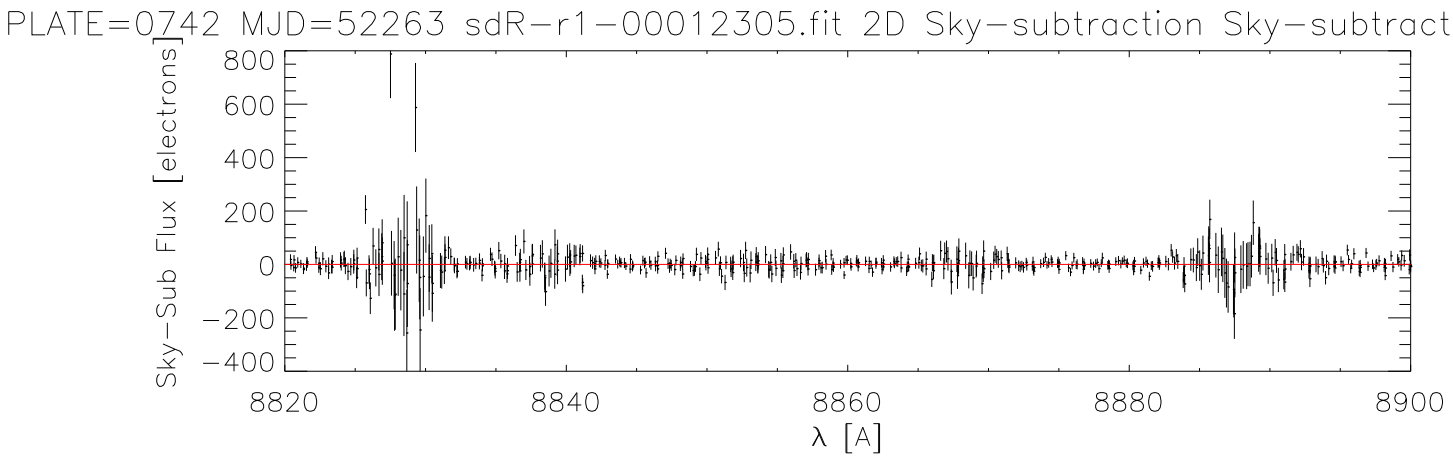

PLATE=0742 MJD=52263 sdR-r1-00012305.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

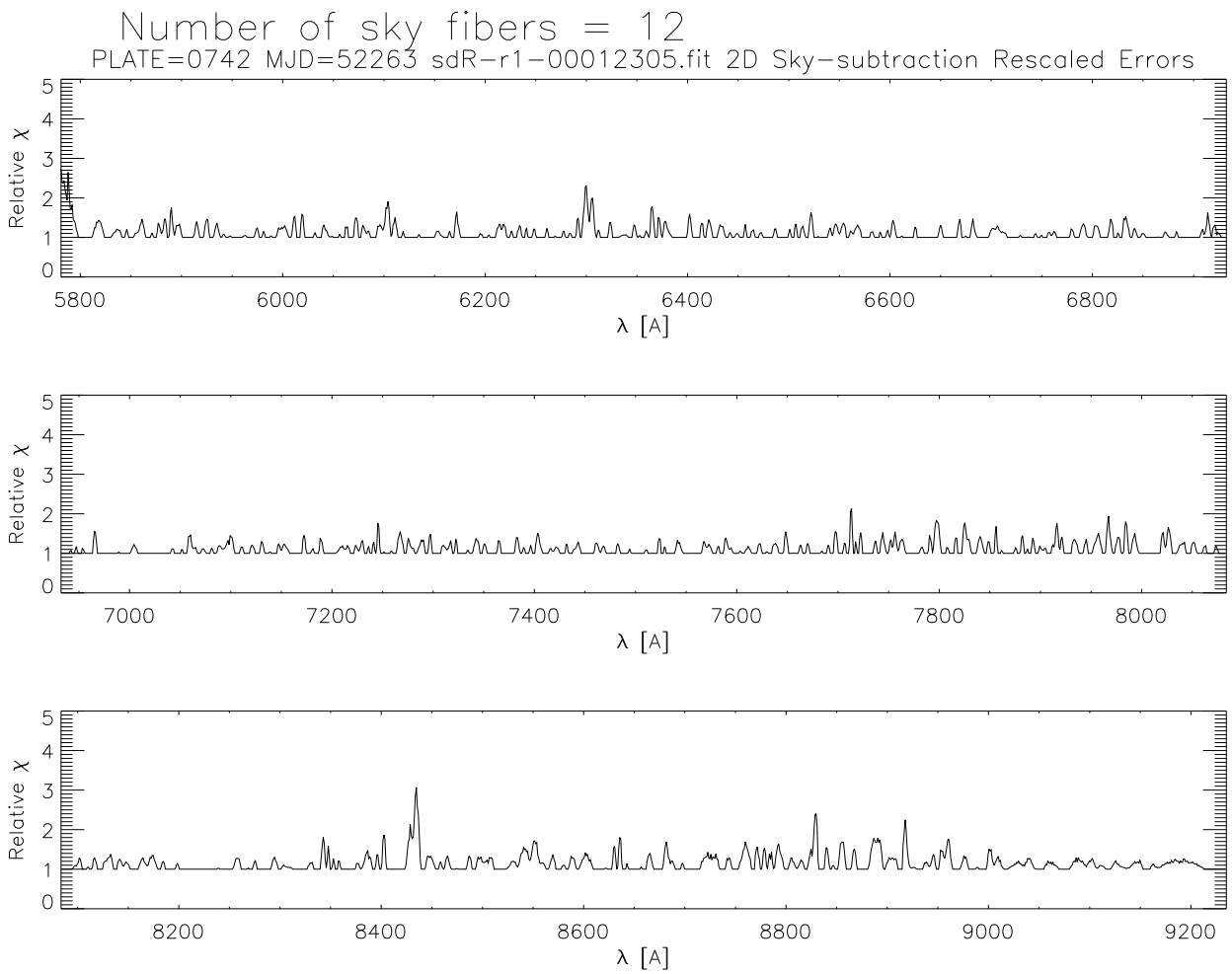

PLATE=0742 MJD=52263 sdR-r1-00012305.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1200
1000
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

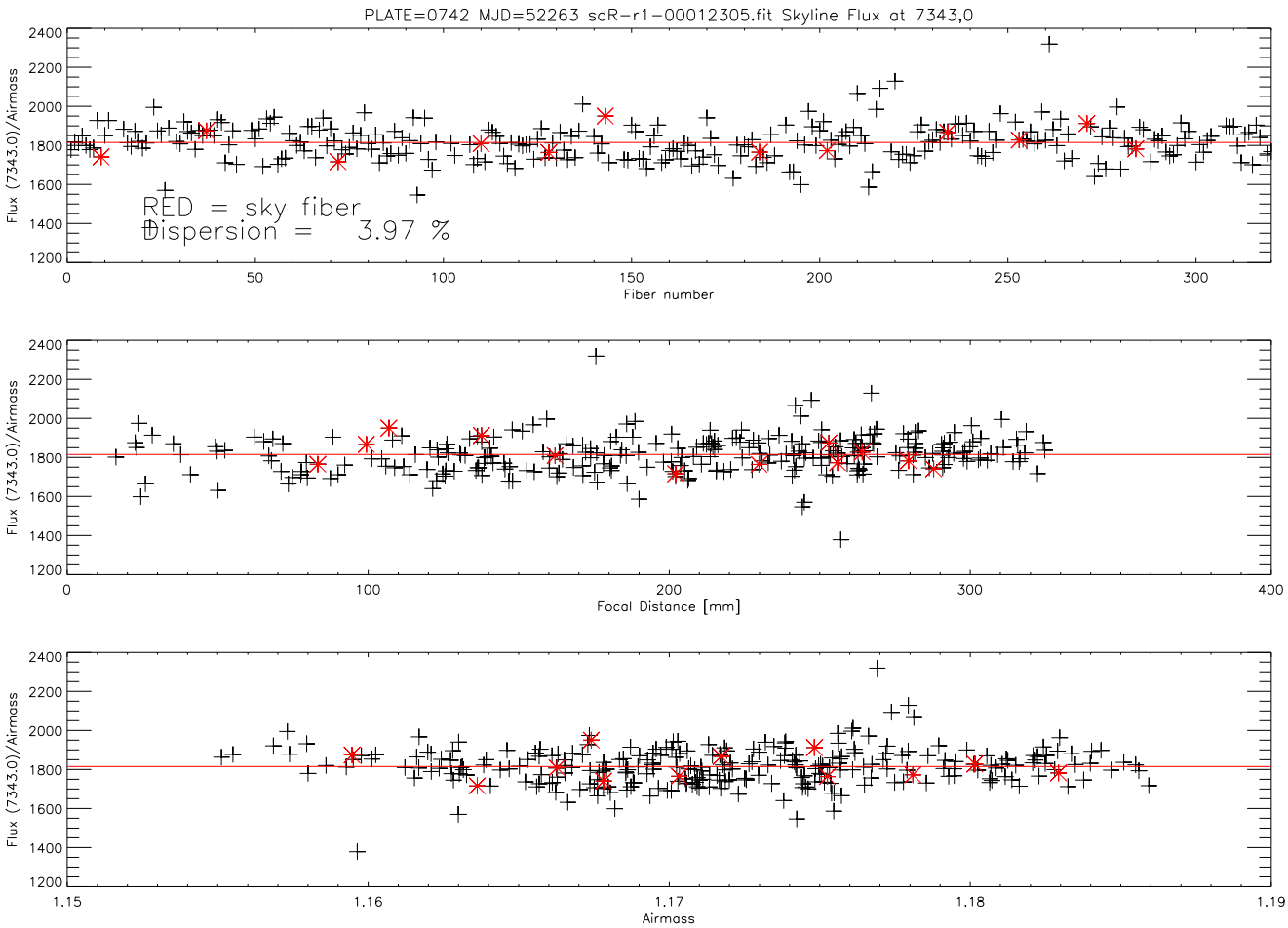

Number of sky fibers = 12
PLATE=0742 MJD=52263 sdR-r1-00012305.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

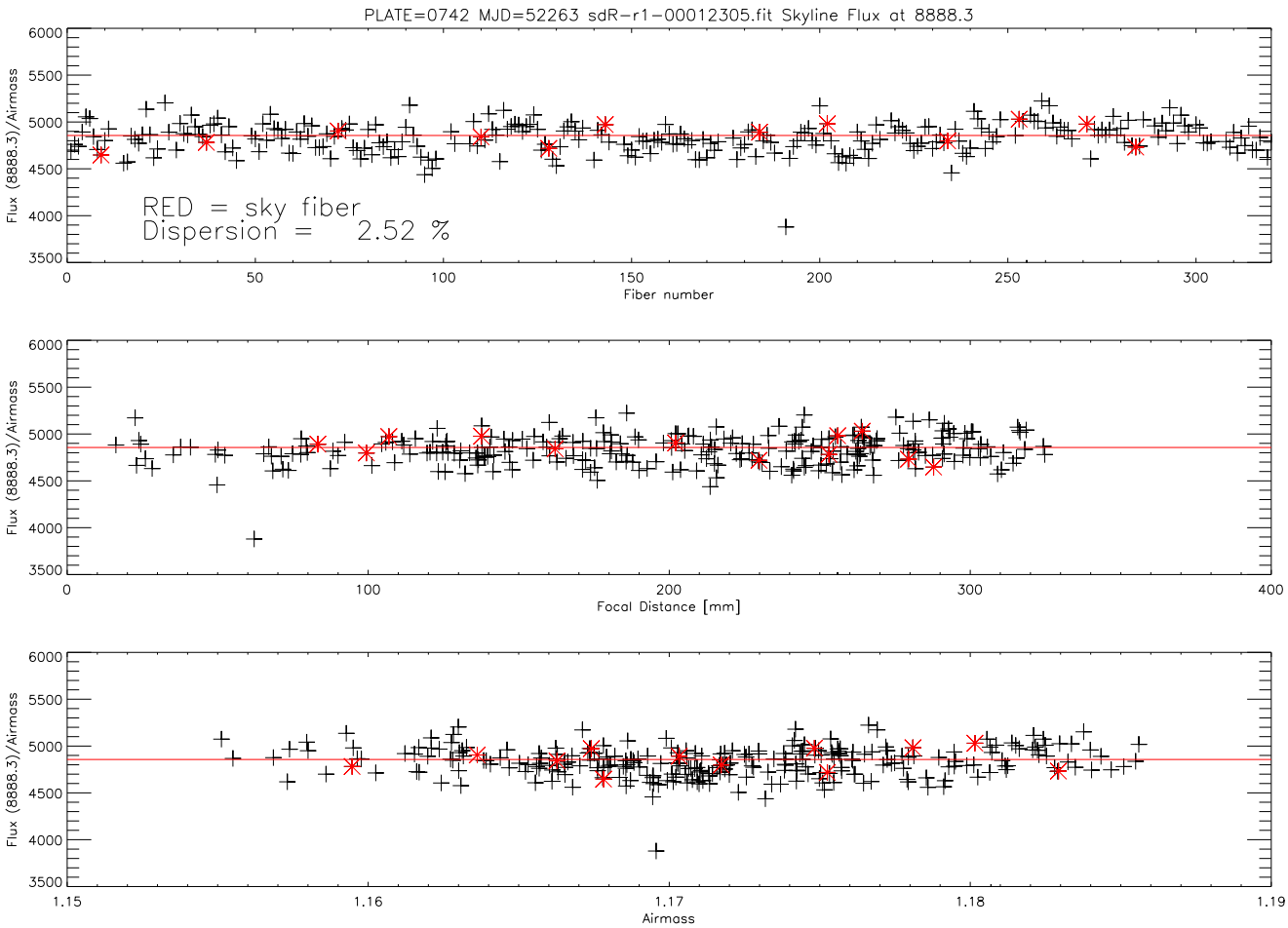

PLATE=0742 MJD=52263 sdR-r1-00012305.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

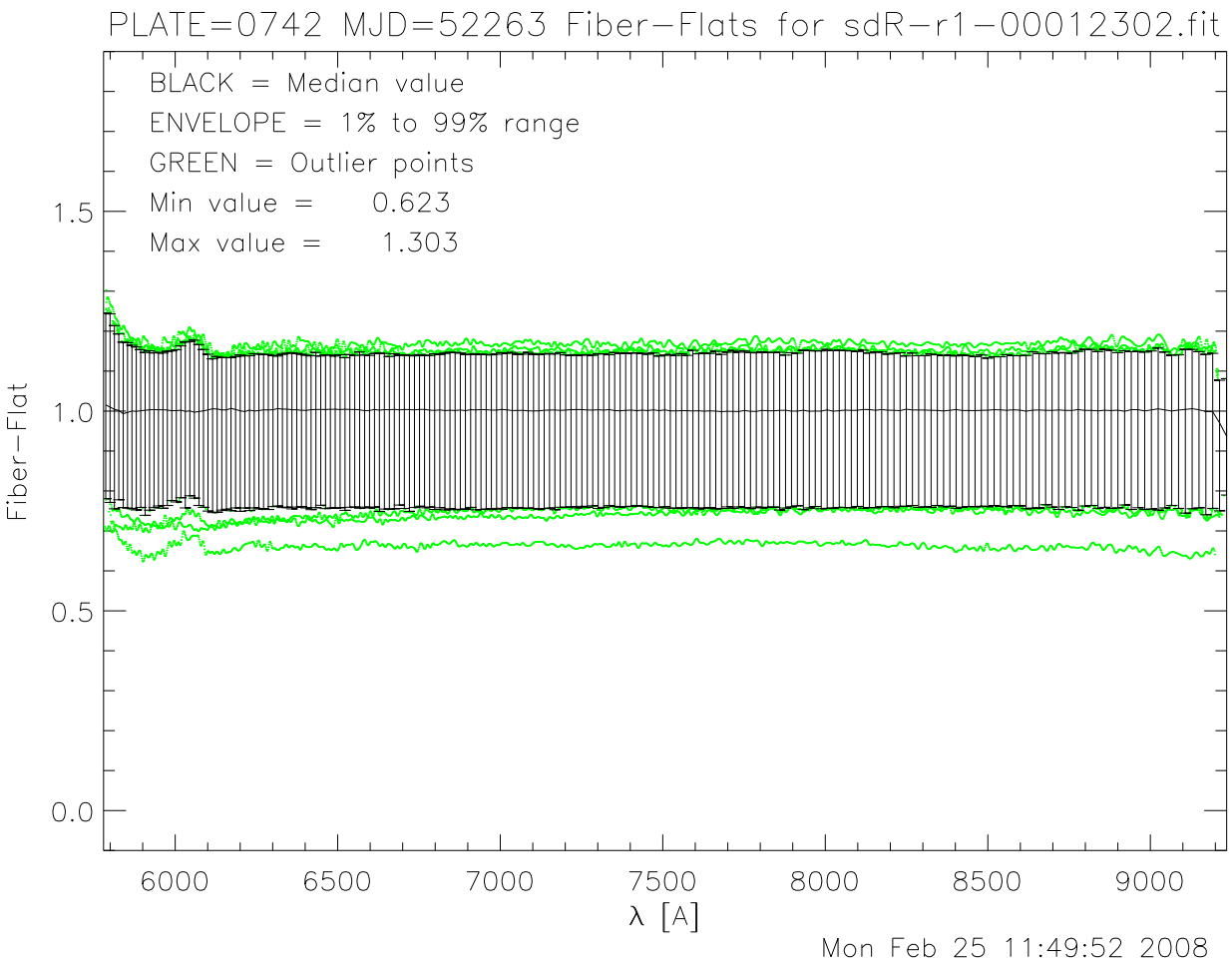

PLATE=0742 MJD=52263 sdR-r1-00012305.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

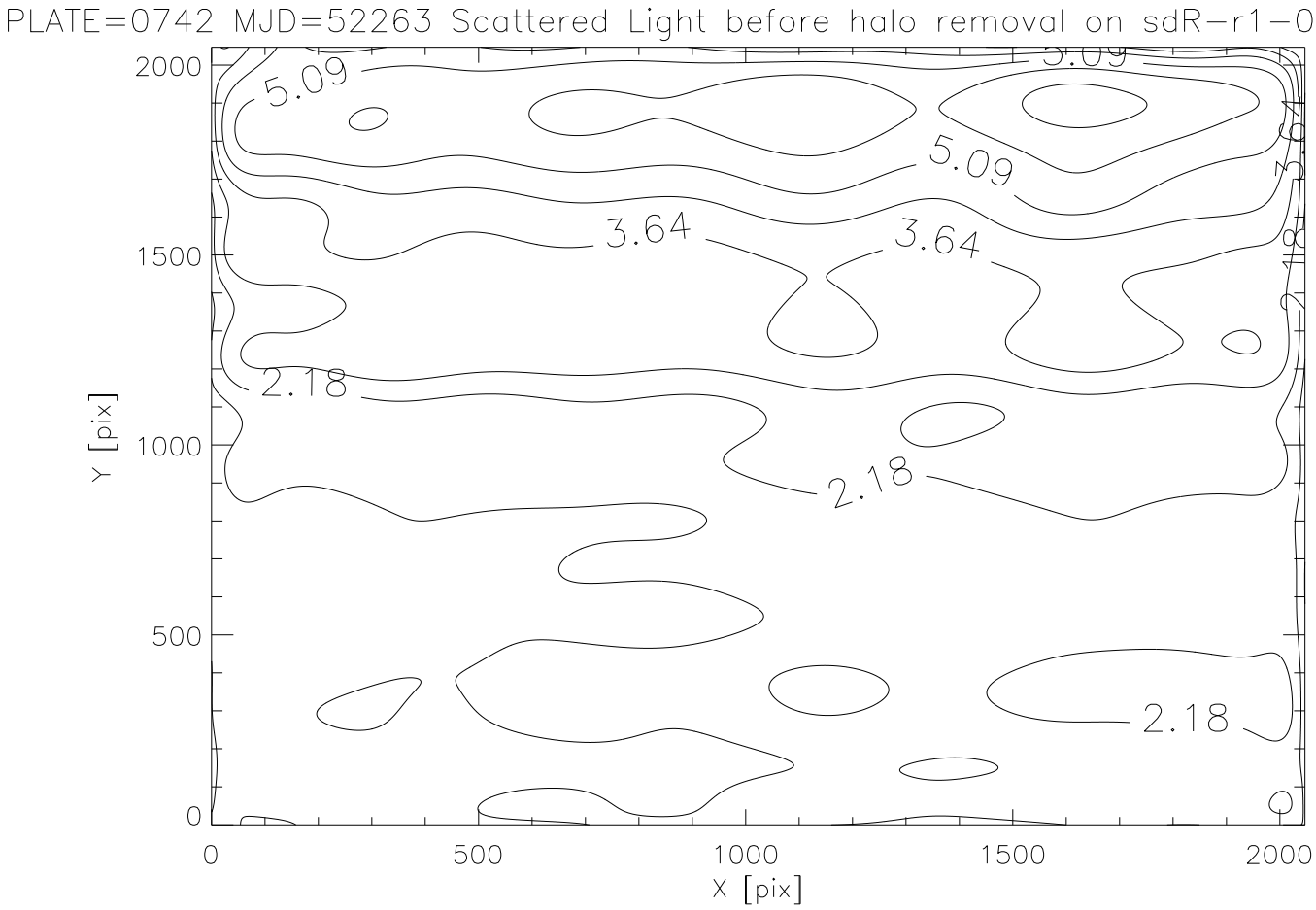

PLATE=0742 MJD=52263 sdR-r1-00012305.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

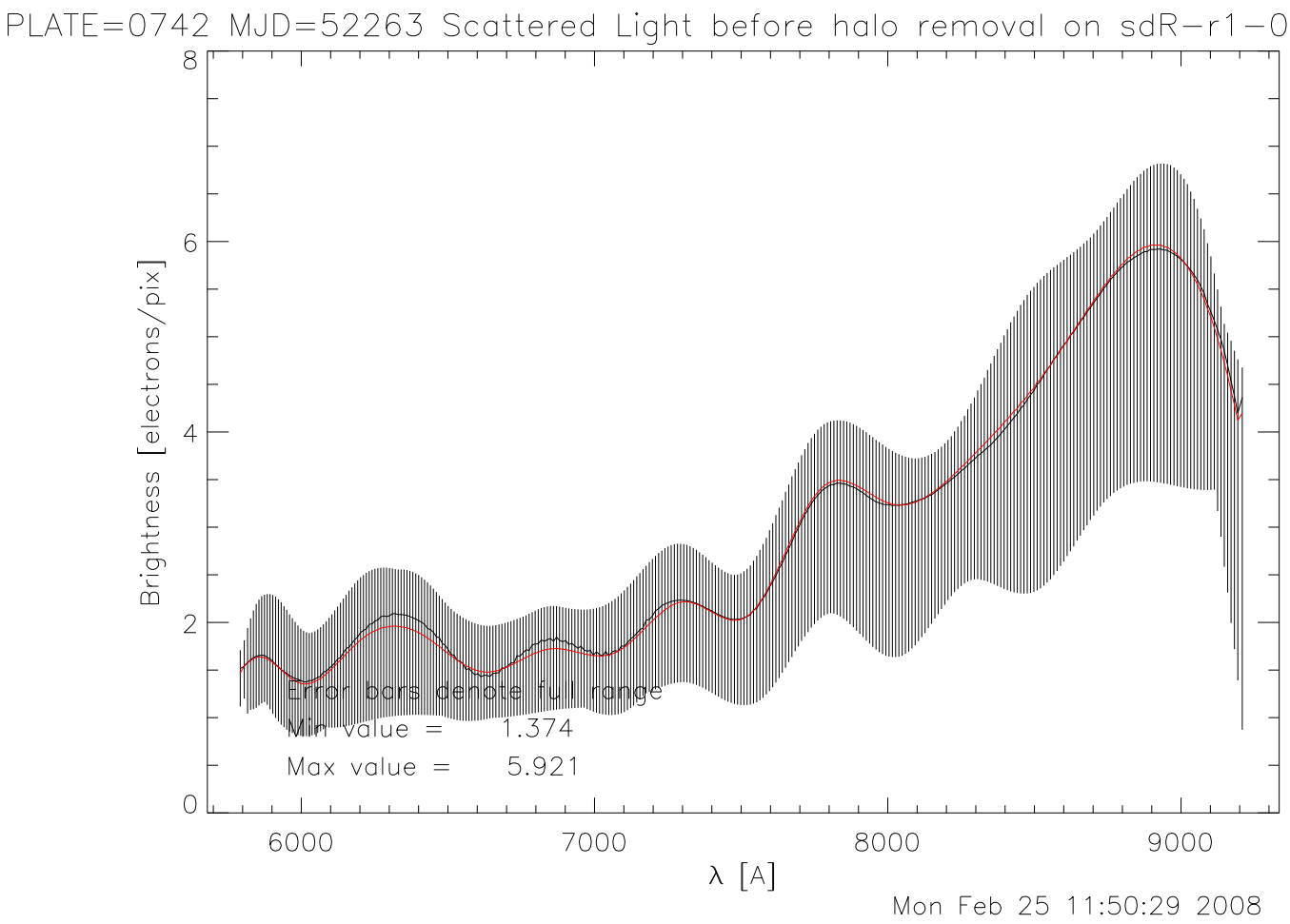

Number of sky fibers = 12
PLATE=0742 MJD=52263 sdR-r1-00012305.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

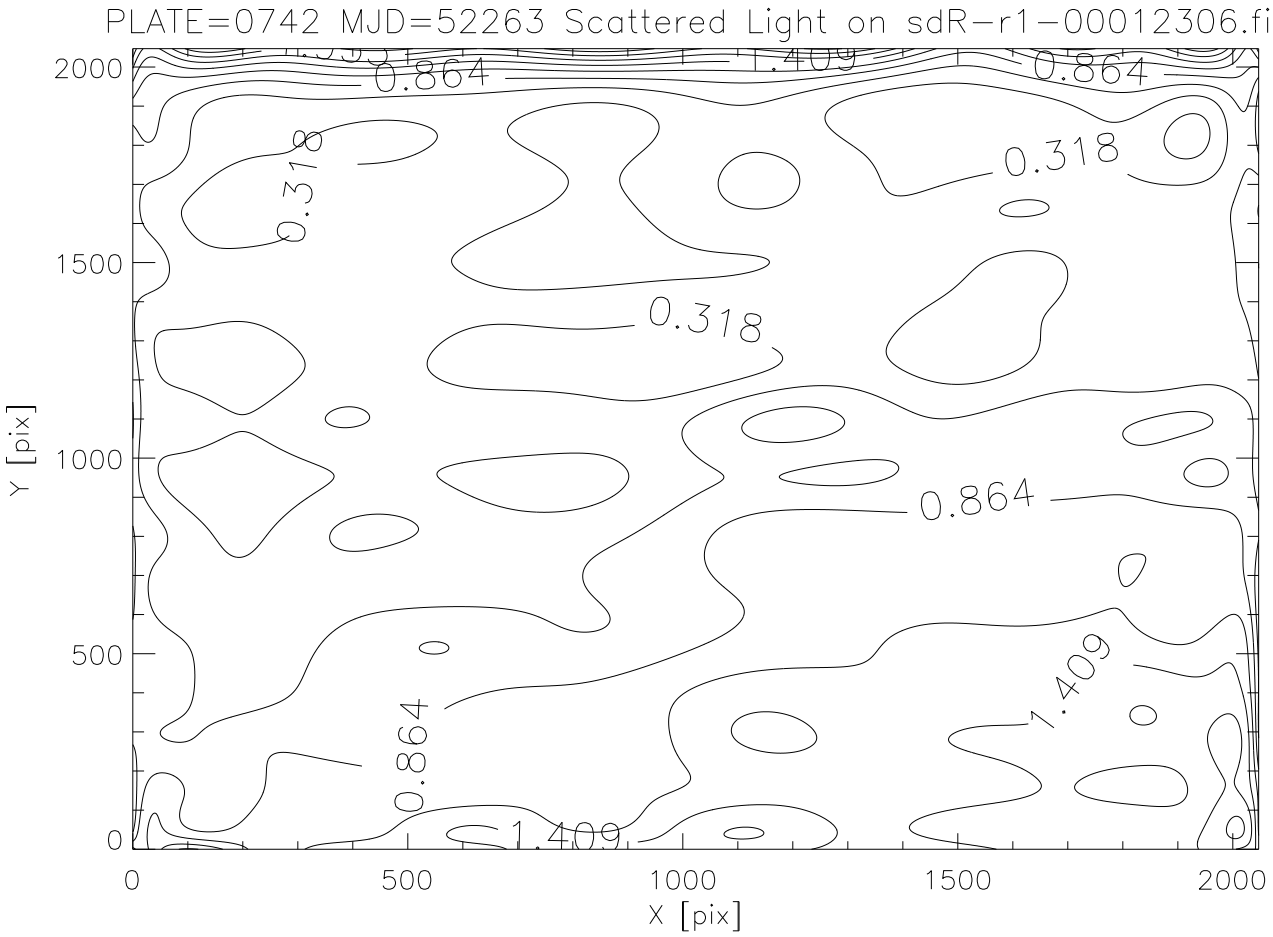

PLATE=0742 MJD=52263 sdR-r1-00012305.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.97 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

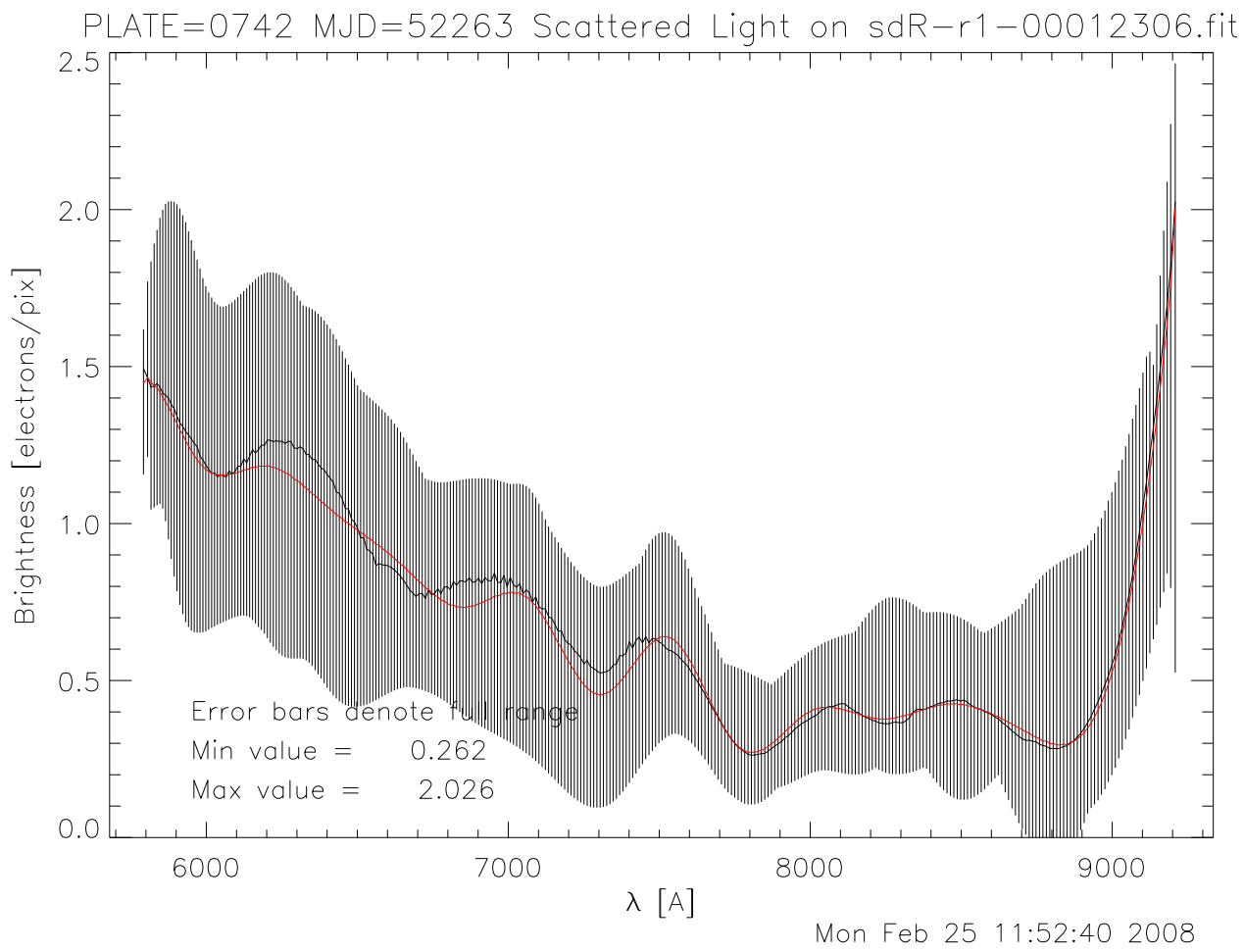

PLATE=0742 MJD=52263 sdR-r1-00012305.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.52 %
Fiber number
Focal Distance [mm]
Airmass

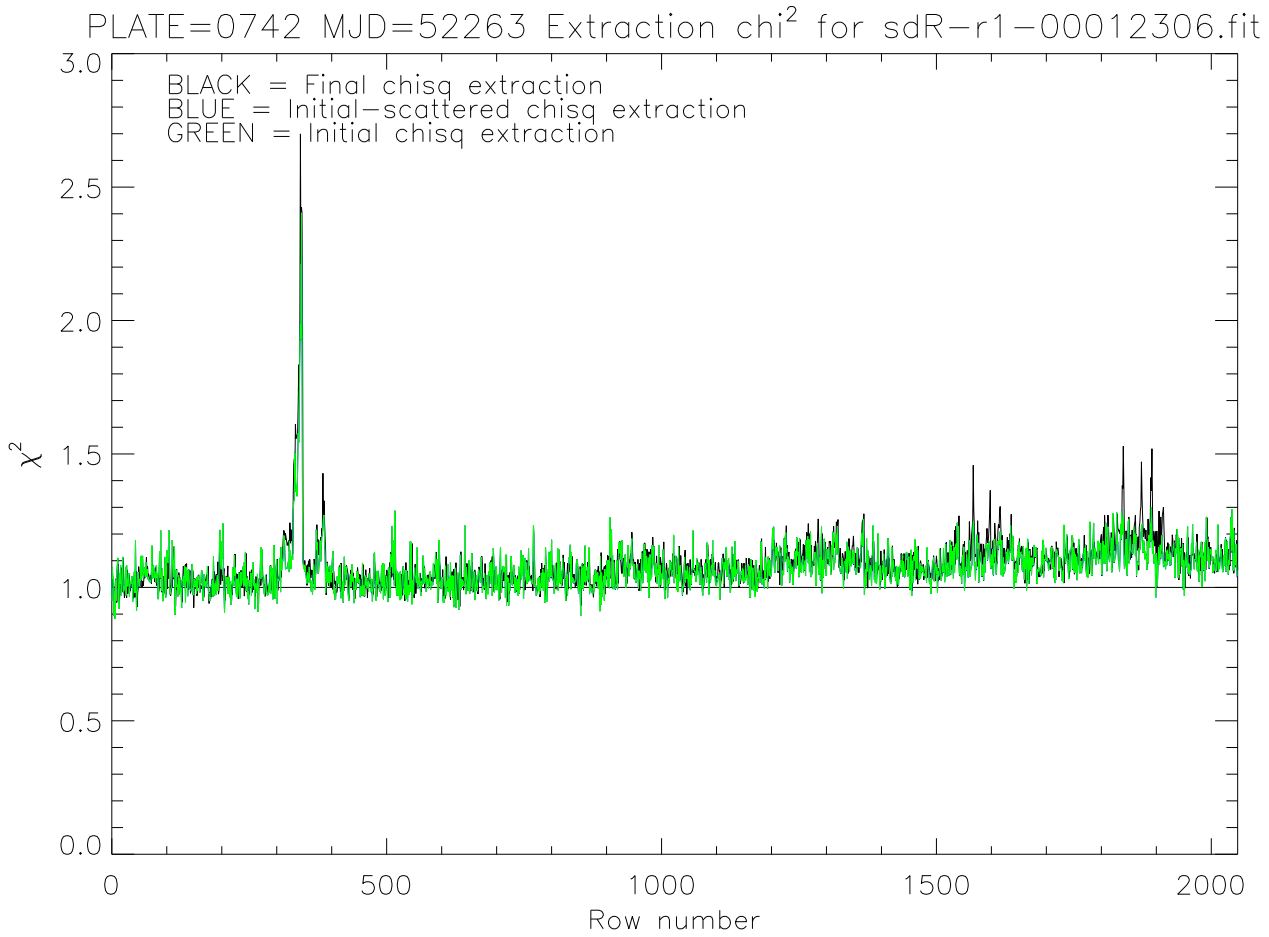

PLATE=0742 MJD=52263 Fiber−Flats for sdR−r1−00012302.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.623
Max value = 1.303
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 25 11:49:52 2008

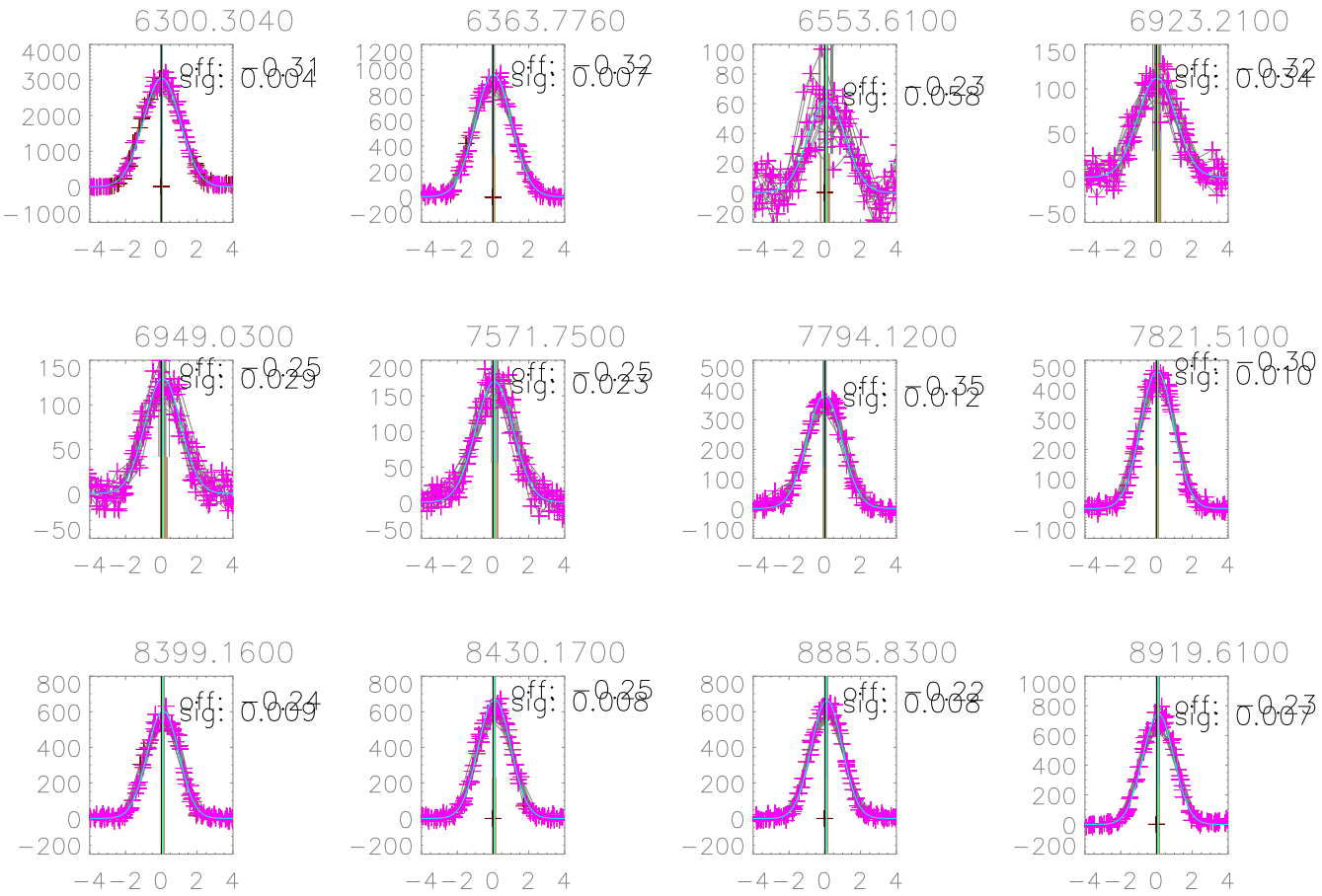

PLATE=0742 MJD=52263 Scattered Light before halo removal on sdR−r1−00012306.fi
5.09
5.09
5.09
3.64
3.64
2.18
2.18
2.18
Y [pix]
X [pix]
0
500
1000
1500
2000

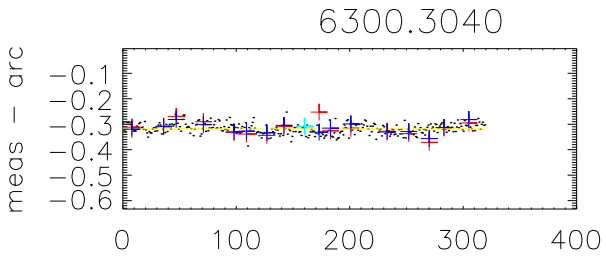

PLATE=0742 MJD=52263 Scattered Light before halo removal on sdR-r1-00012306.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 1.374
Max value = 5.921
Mon Feb 25 11:50:29 2008

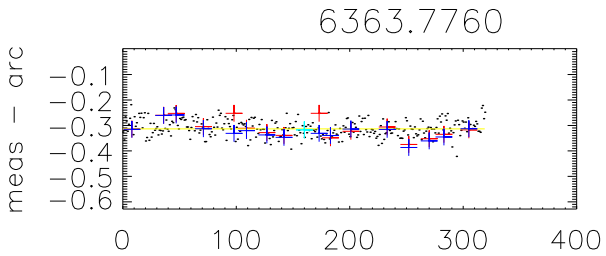

PLATE=0742 MJD=52263 Scattered Light on sdR-r1-00012306.fit
0.864
0.318
0.318
0.318
0.864
0.864
1.409
1.409
0
0
0
0
0
2000
1500
1000
500
0
0
500
1000
1500
2000
Y [pix]
X [pix]

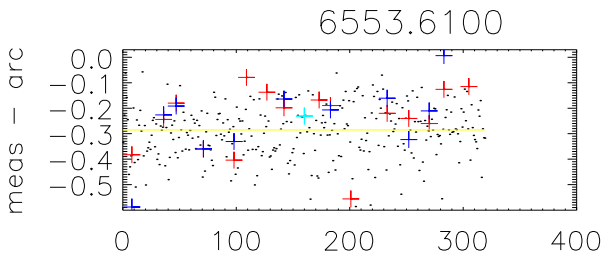

PLATE=0742 MJD=52263 Scattered Light on sdR-r1-00012306.fit
Brightness [electrons/pix]
2.5
2.0
1.5
1.0
0.5
0.0
Error bars denote full range
Min value = 0.262
Max value = 2.026
6000
7000
8000
9000
λ [A]
Mon Feb 25 11:52:40 2008

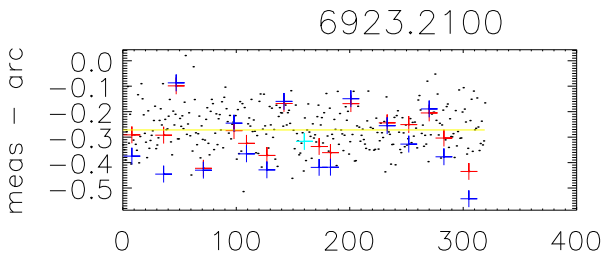

PLATE=0742 MJD=52263 Extraction chi^2 for sdR−r1−00012306.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

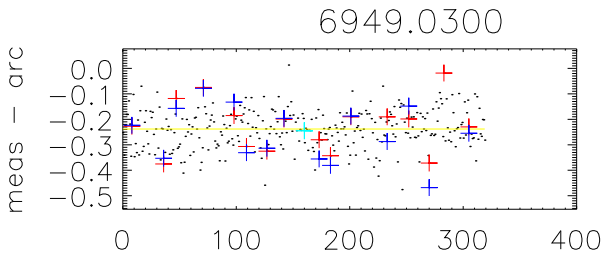

6300.3040
off: −0.31
sig: 0.004
6363.7760
off: −0.32
sig: 0.007
6553.6100
off: −0.23
sig: 0.038
6923.2100
off: −0.32
sig: 0.034
6949.0300
off: −0.25
sig: 0.029
7571.7500
off: −0.25
sig: 0.023
7794.1200
off: −0.35
sig: 0.012
7821.5100
off: −0.30
sig: 0.010
8399.1600
off: −0.24
sig: 0.009
8430.1700
off: −0.25
sig: 0.008
8885.8300
off: −0.22
sig: 0.008
8919.6100
off: −0.23
sig: 0.007

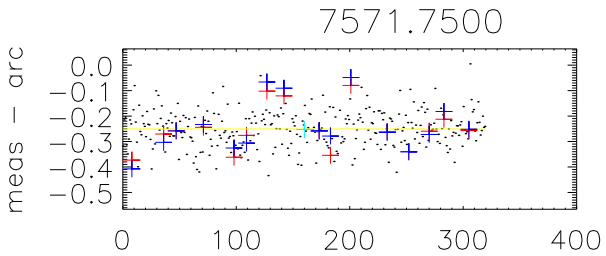

6300.3040
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

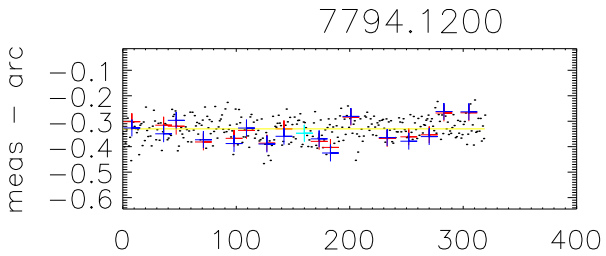

6363.7760
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

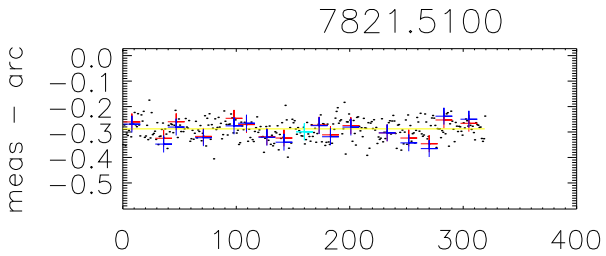

6553.6100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

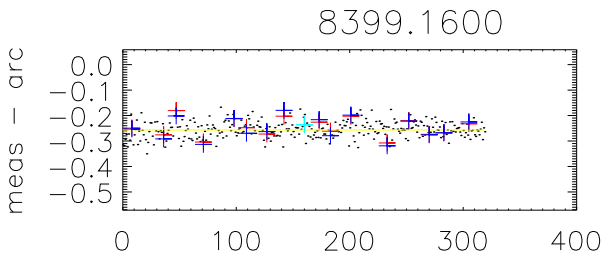

6923.2100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

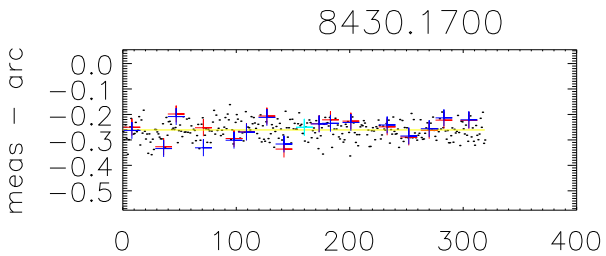

6949.0300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

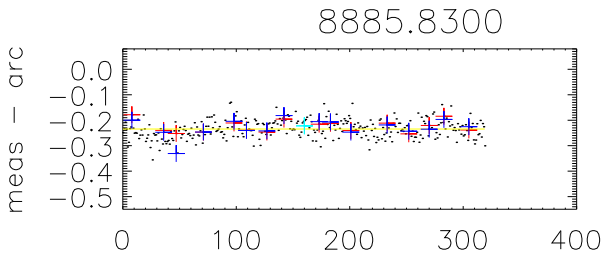

7571.7500
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

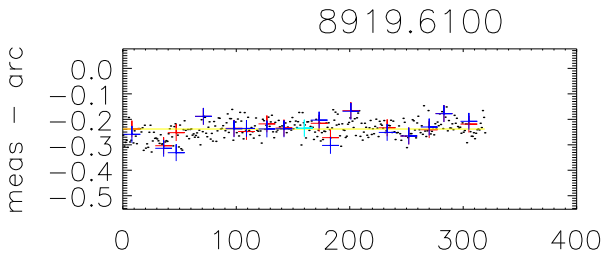

7794.1200
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

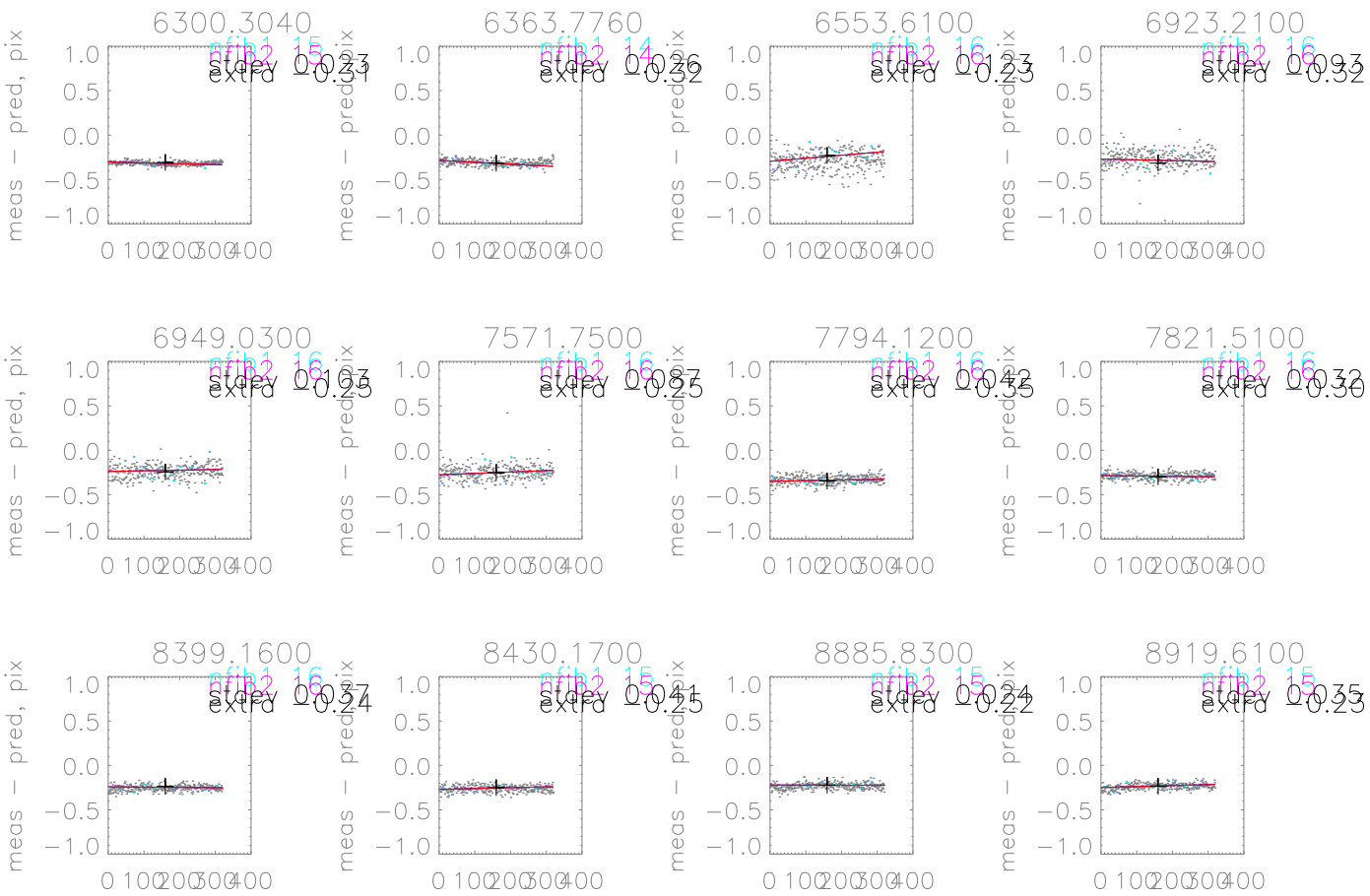

7821.5100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

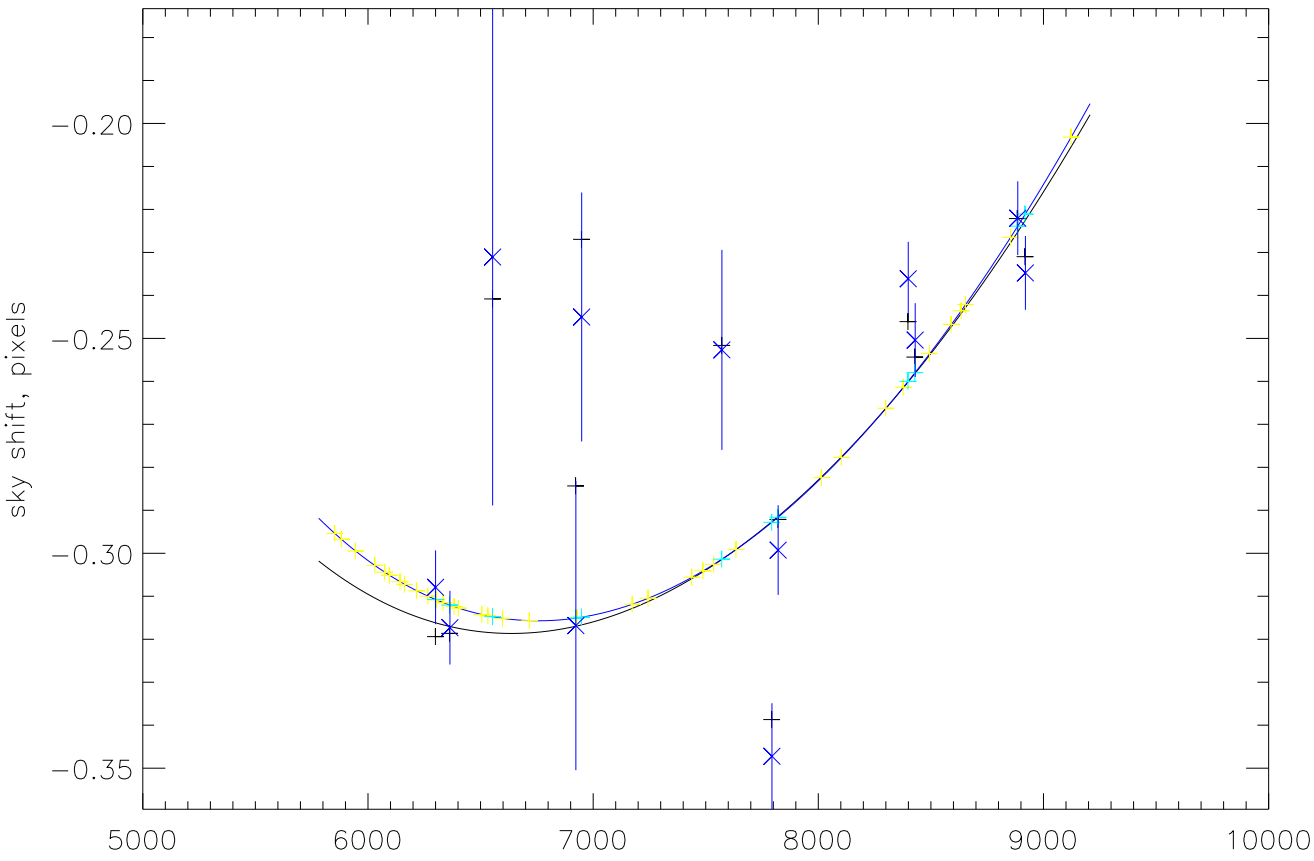

8399.1600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

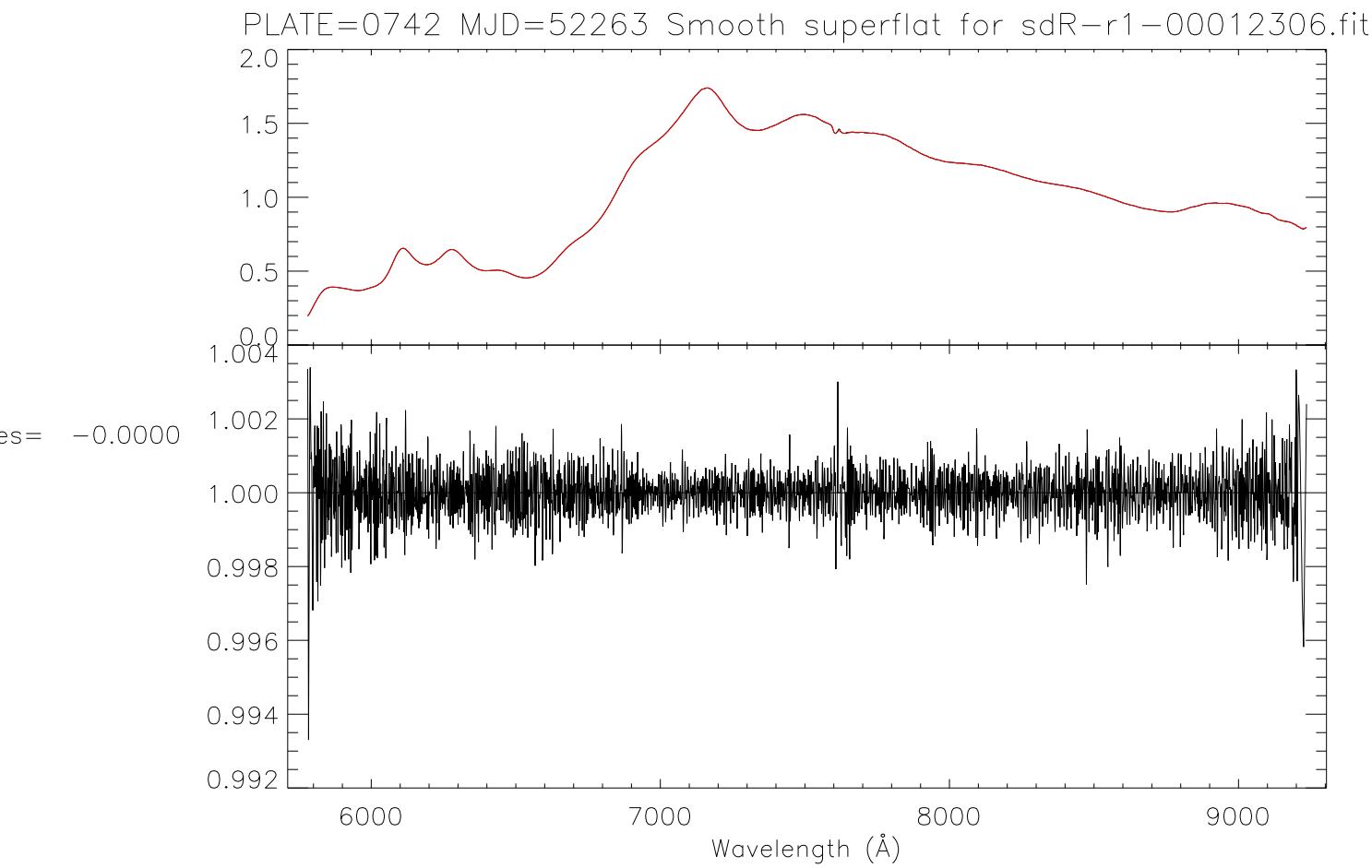

8430.1700
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

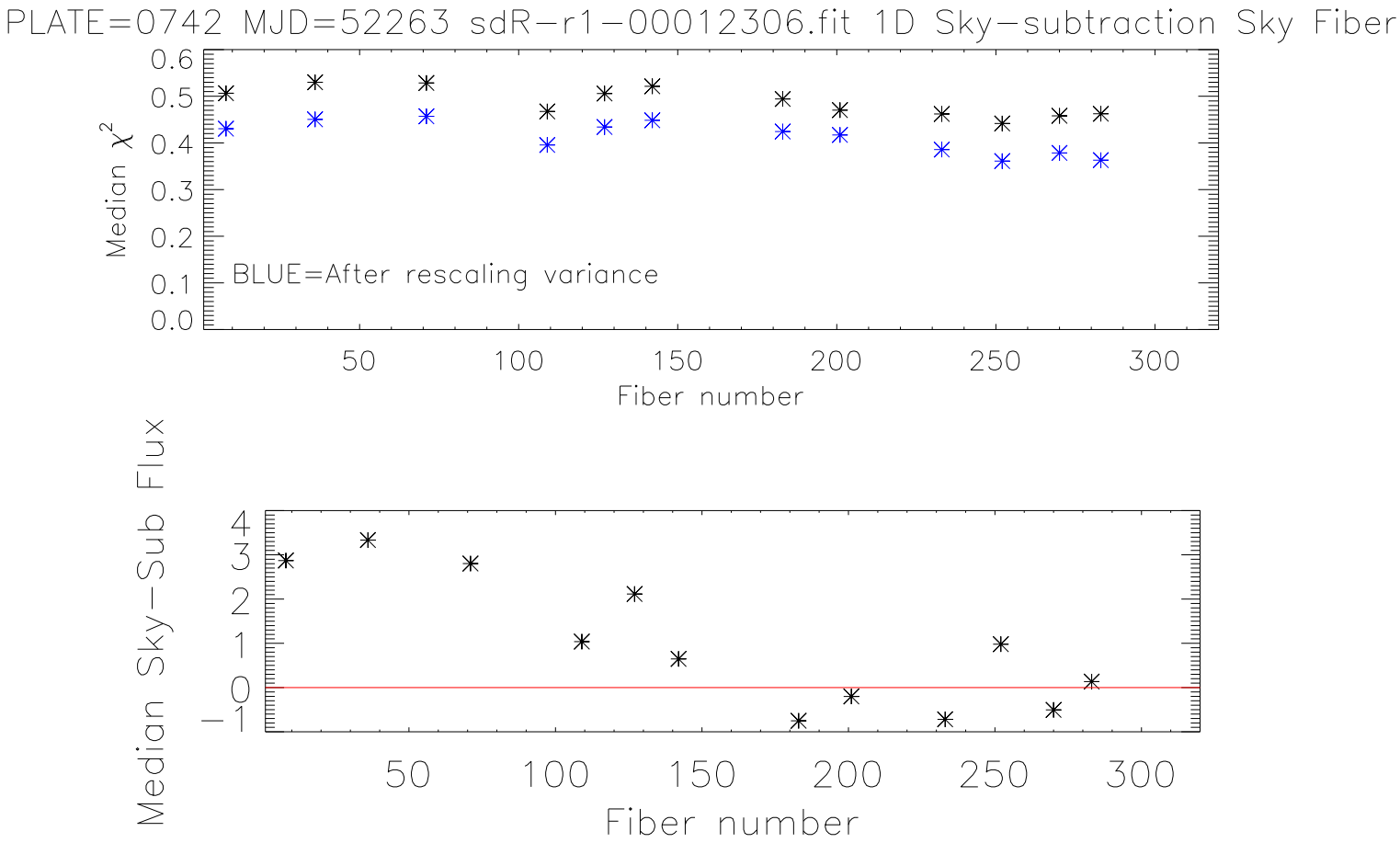

8885.8300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

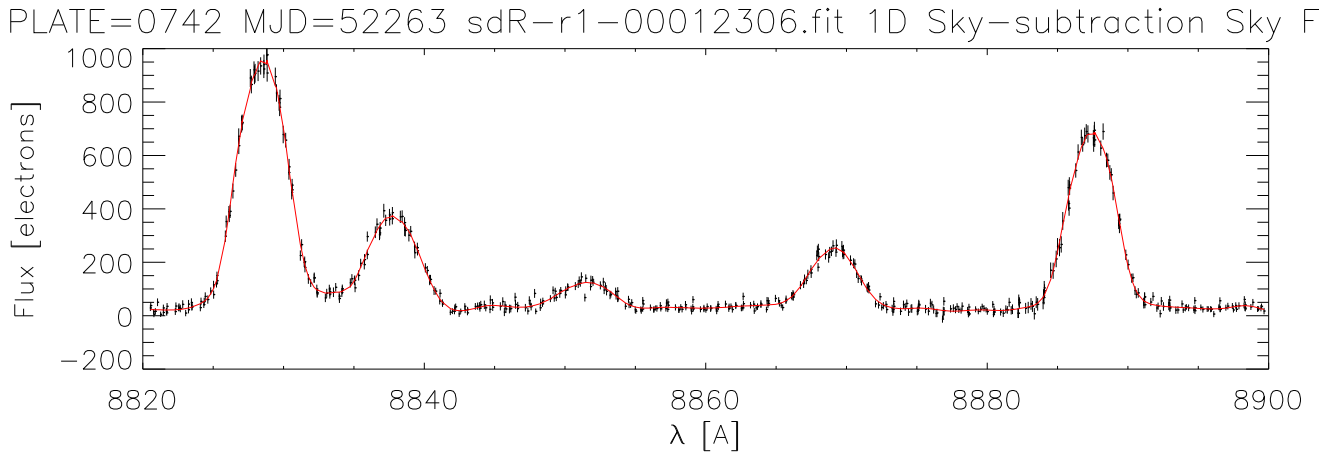

8919.6100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

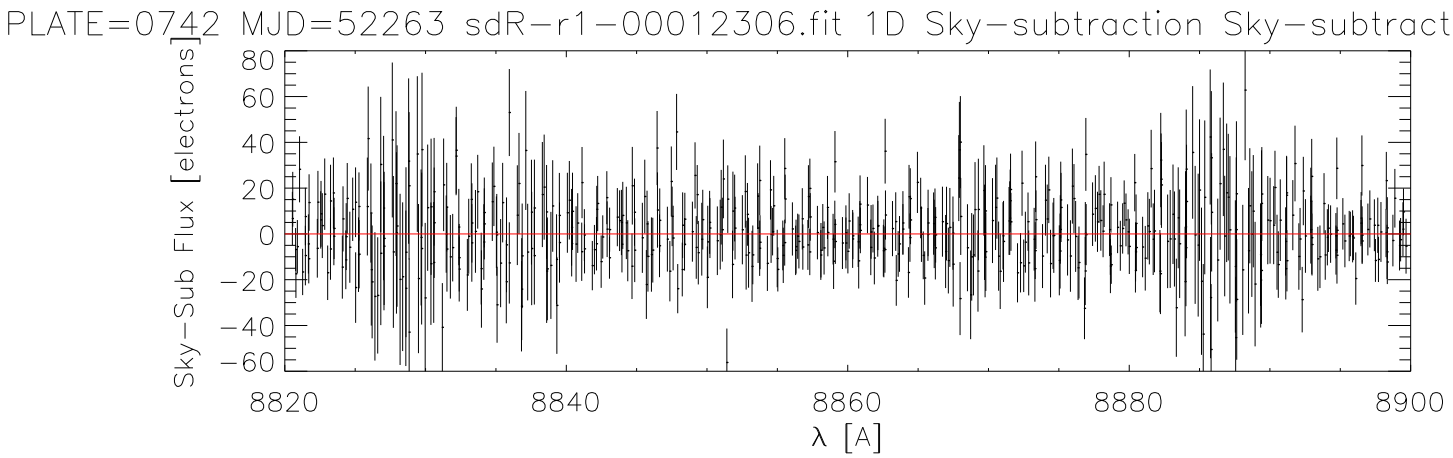

6300.3040
mfib1 15
mfib2 15
stdev 0.23
extrd 0.31
6363.7760
mfib1 14
mfib2 16
stdev 0.26
extrd 0.32
6553.6100
mfib1 16
mfib2 16
stdev 0.23
extrd 0.23
6923.2100
mfib1 16
mfib2 16
stdev 0.33
extrd 0.32
6949.0300
mfib1 16
mfib2 16
stdev 0.23
extrd 0.25
7571.7500
mfib1 16
mfib2 16
stdev 0.27
extrd 0.25
7794.1200
mfib1 16
mfib2 16
stdev 0.42
extrd 0.35
7821.5100
mfib1 16
mfib2 16
stdev 0.32
extrd 0.30
8399.1600
mfib1 16
mfib2 16
stdev 0.37
extrd 0.24
8430.1700
mfib1 15
mfib2 15
stdev 0.41
extrd 0.25
8885.8300
mfib1 15
mfib2 15
stdev 0.24
extrd 0.22
8919.6100
mfib1 15
mfib2 15
stdev 0.35
extrd 0.23
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

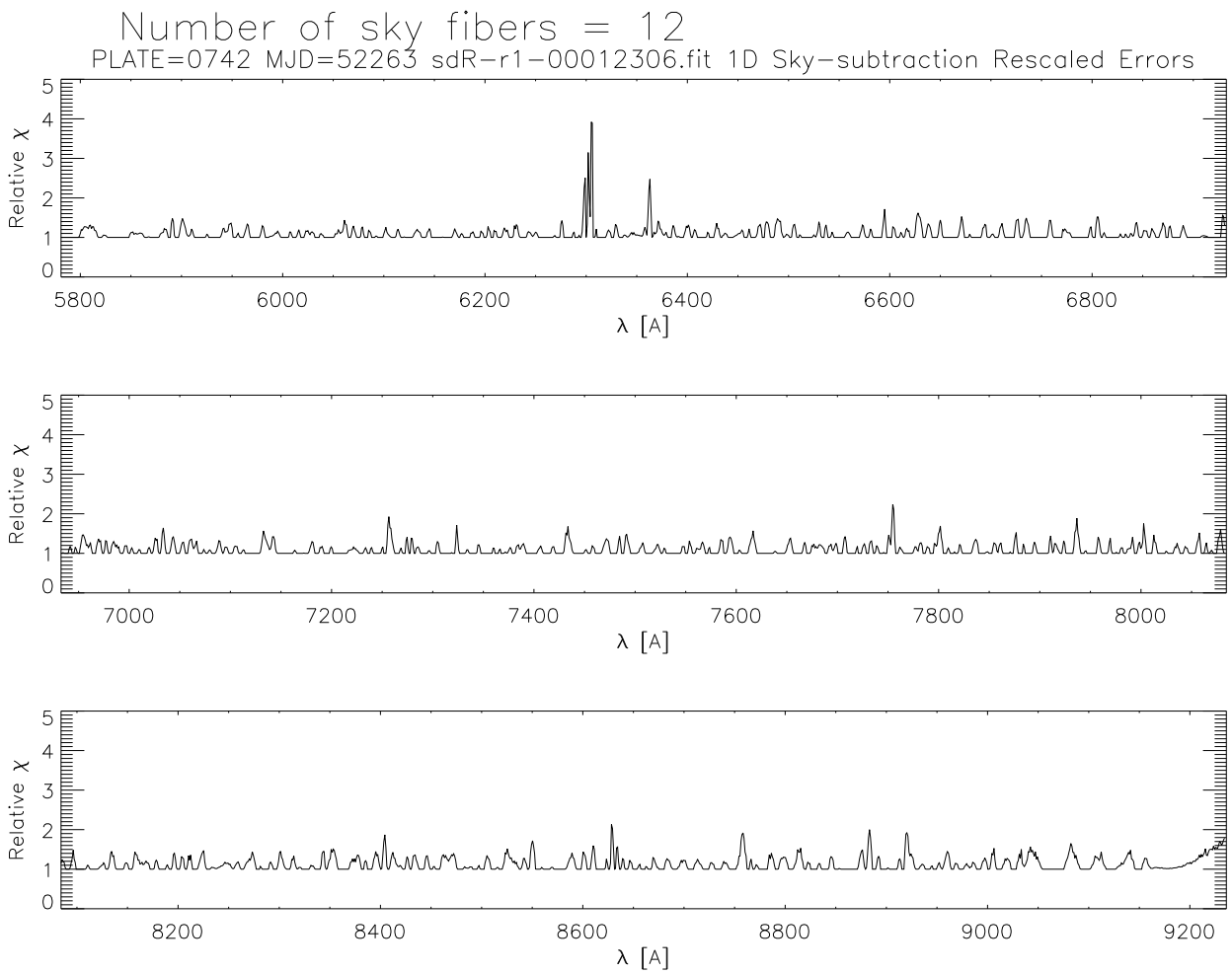

sky shift, pixels
−0.20
−0.25
−0.30
−0.35
5000
6000
7000
8000
9000
10000

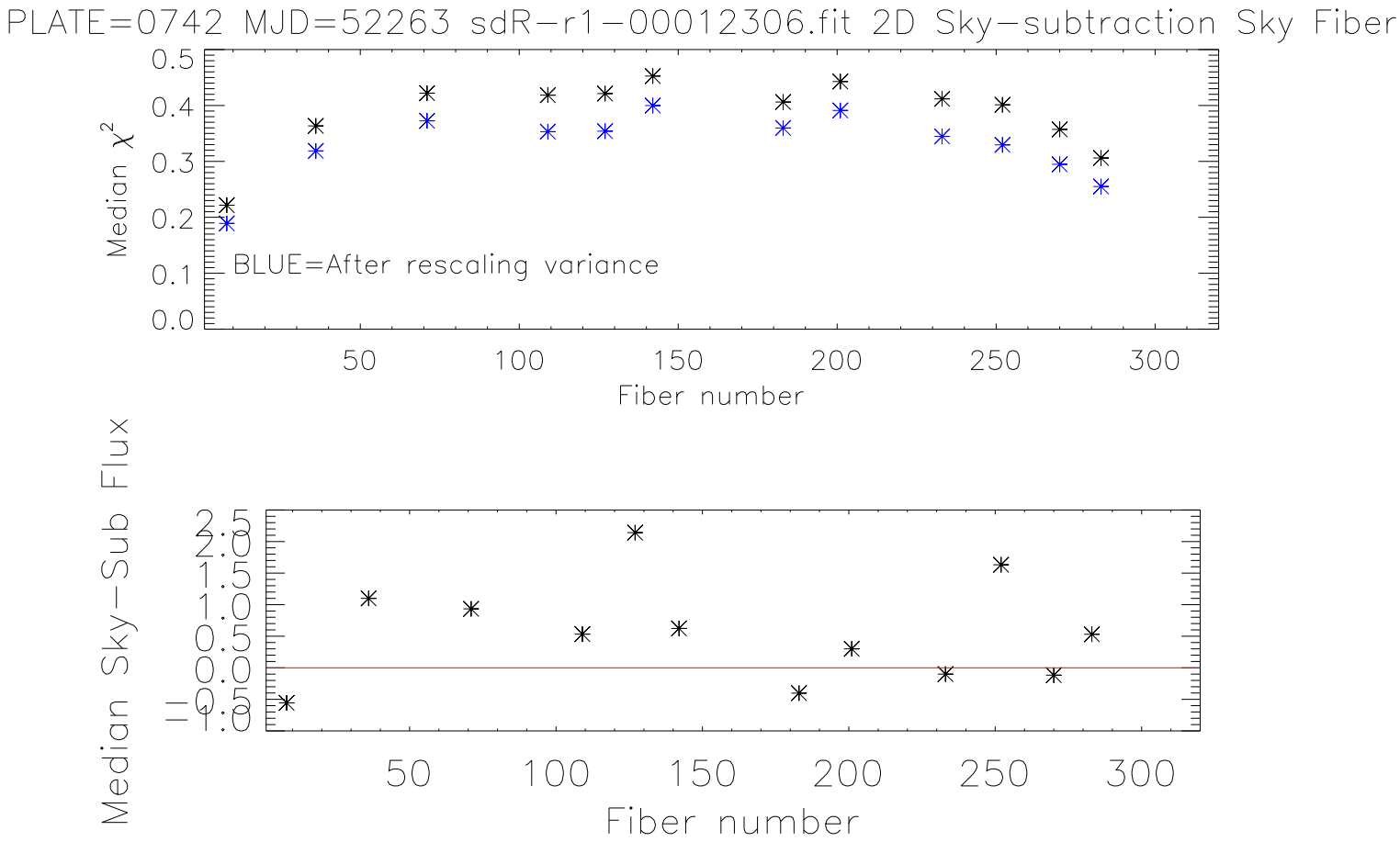

PLATE=0742 MJD=52263 Smooth superflat for sdR-r1-00012306.fit
2.0
1.5
1.0
0.5
0.0
1.004
1.002
1.000
0.998
0.996
0.994
0.992
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

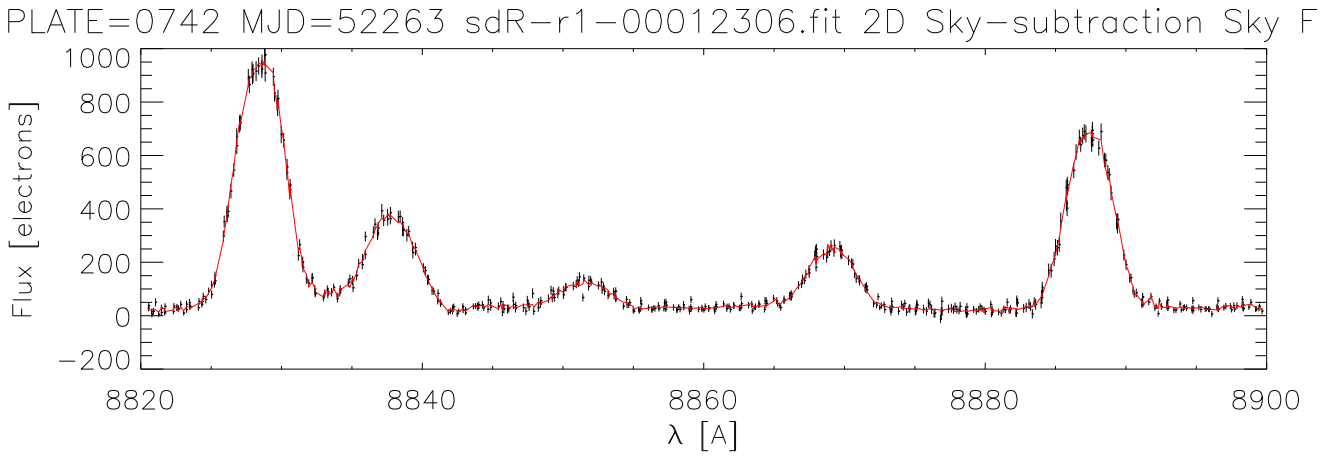

PLATE=0742 MJD=52263 sdR-r1-00012306.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
−1
0
1
2
3
4
50
100
150
200
250
300
Fiber number

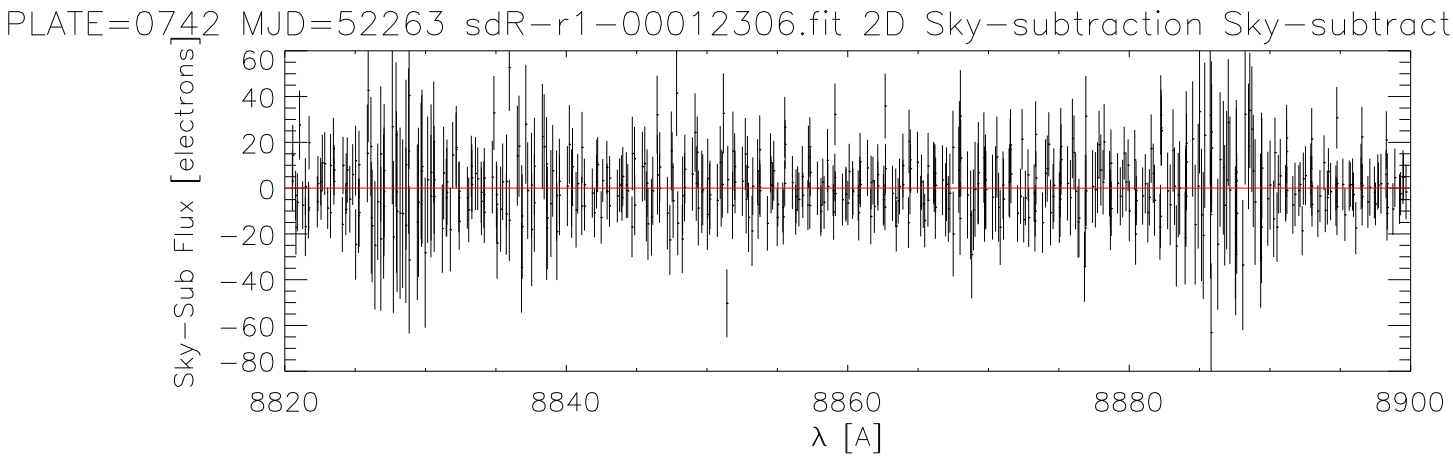

PLATE=0742 MJD=52263 sdR-r1-00012306.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1000
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

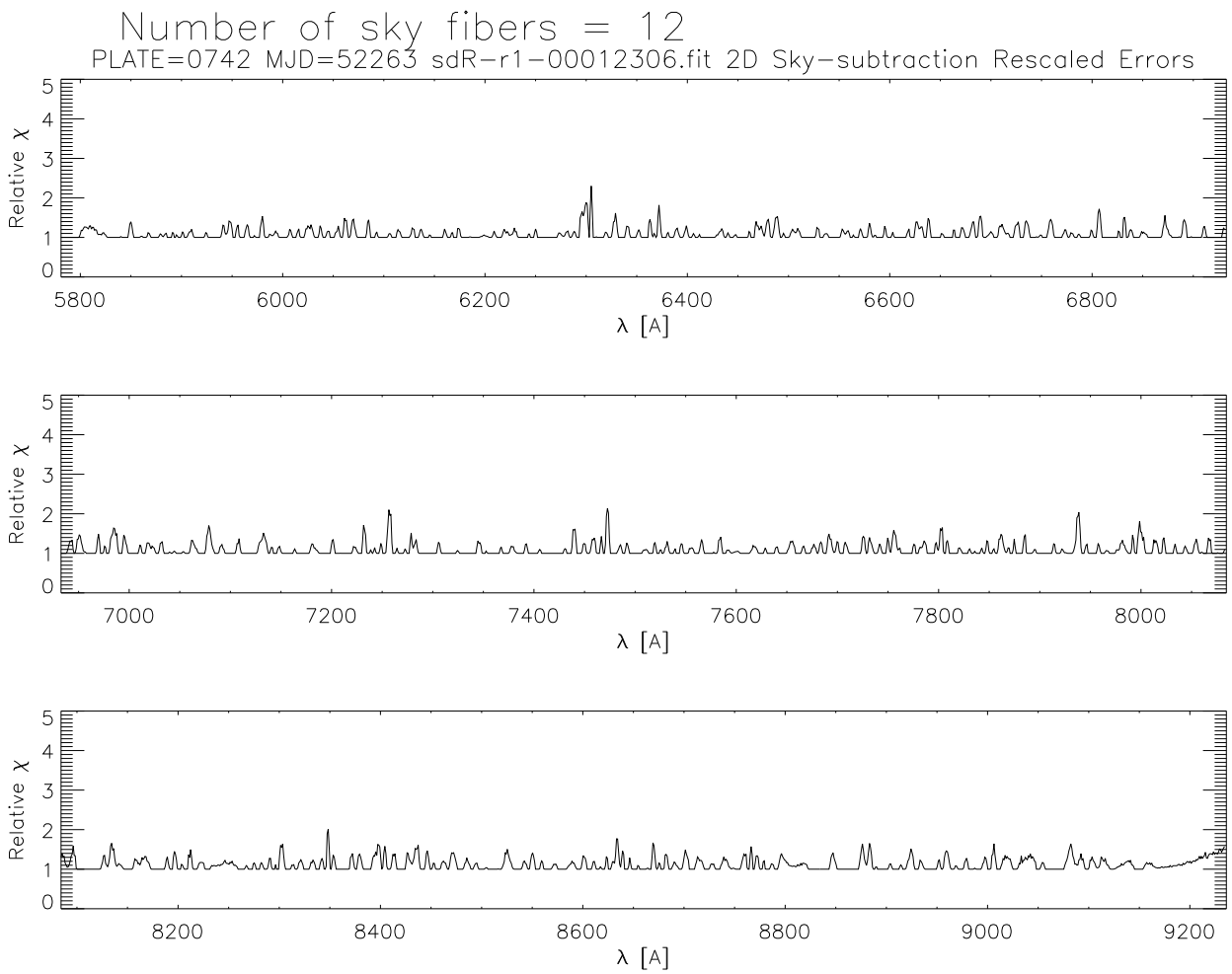

PLATE=0742 MJD=52263 sdR-r1-00012306.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
80
60
40
20
0
-20
-40
-60
8820
8840
8860
8880
8900
λ [A]

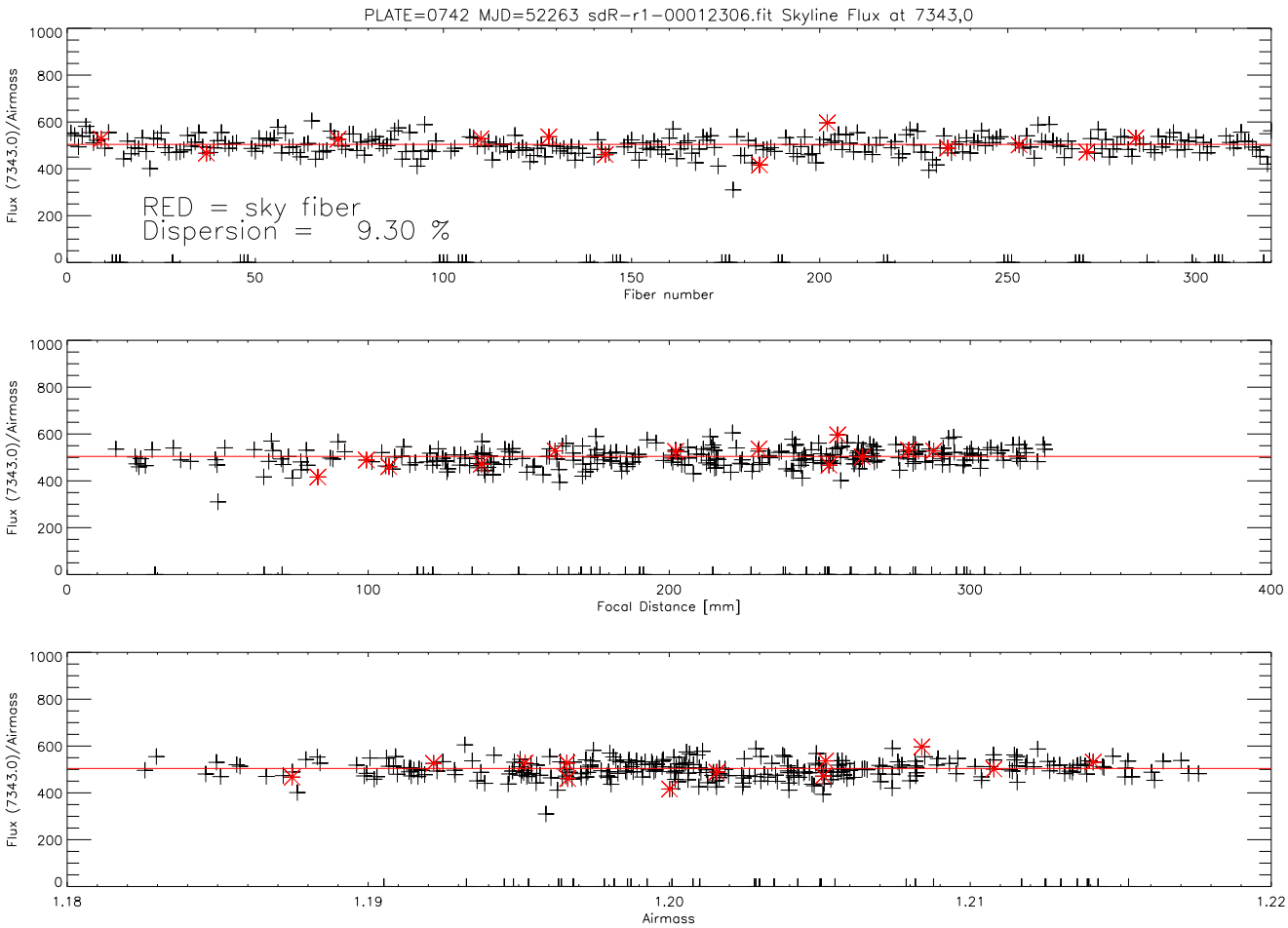

Number of sky fibers = 12
PLATE=0742 MJD=52263 sdR-r1-00012306.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

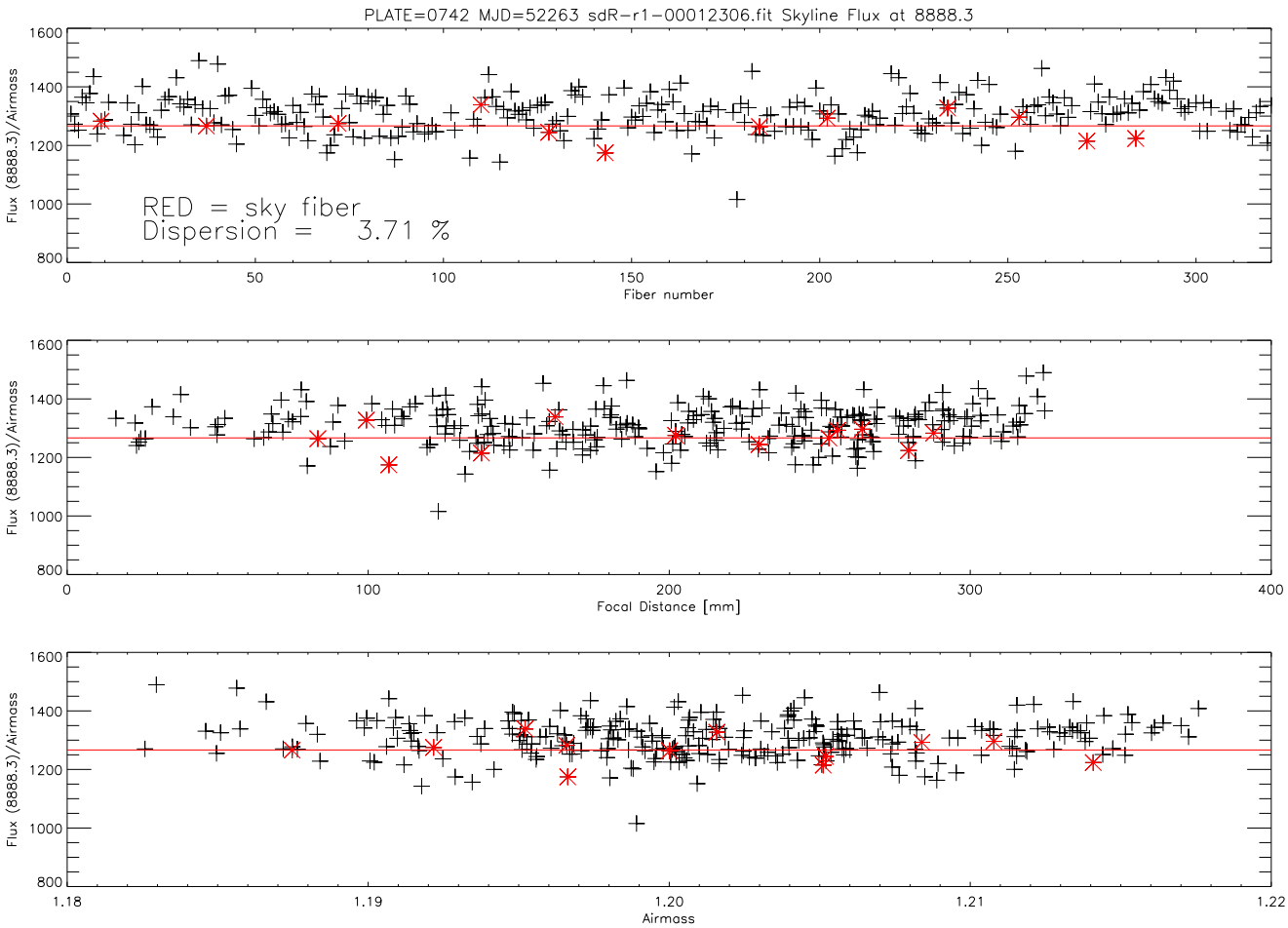

PLATE=0742 MJD=52263 sdR-r1-00012306.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

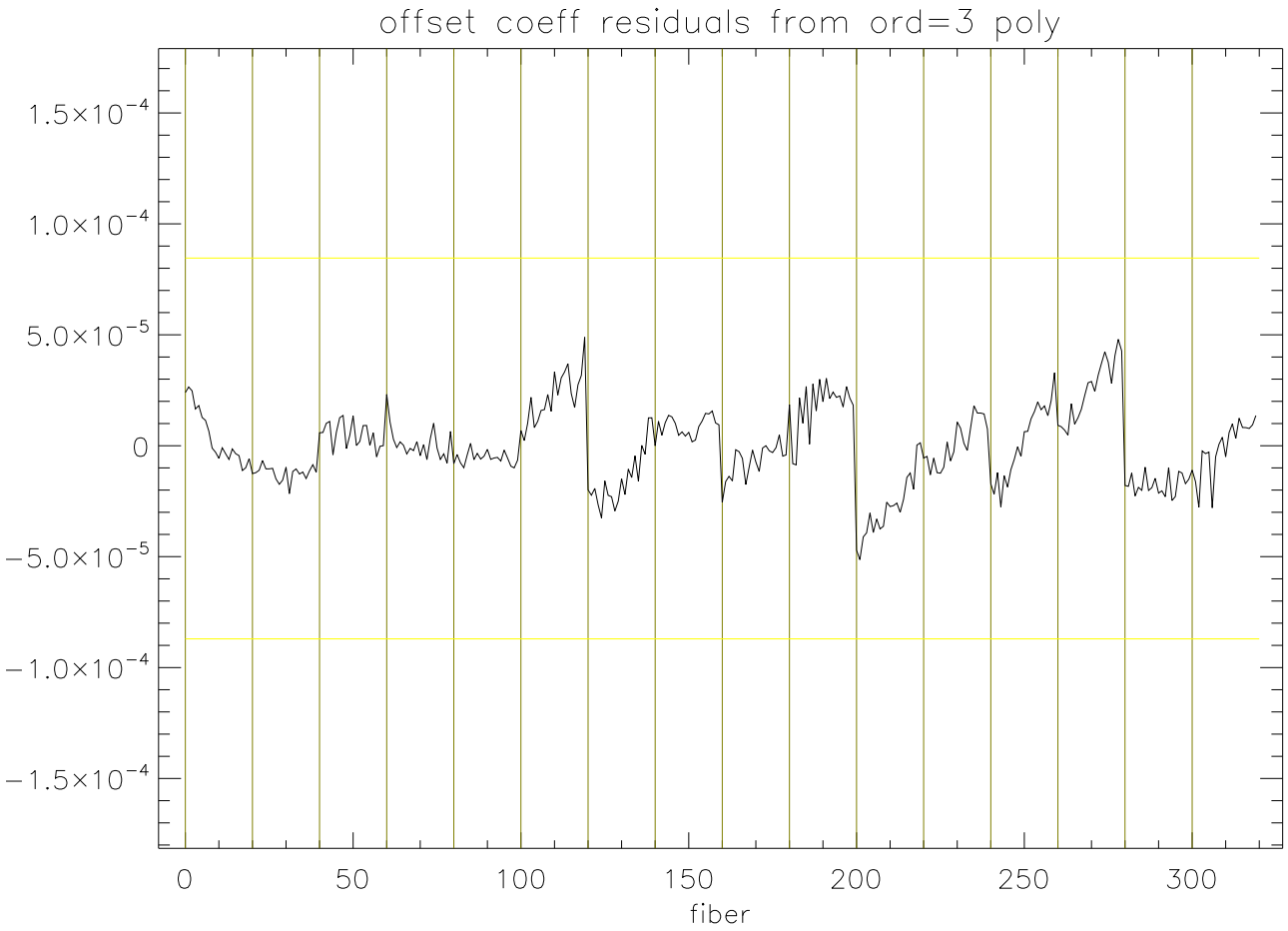

PLATE=0742 MJD=52263 sdR-r1-00012306.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1000
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

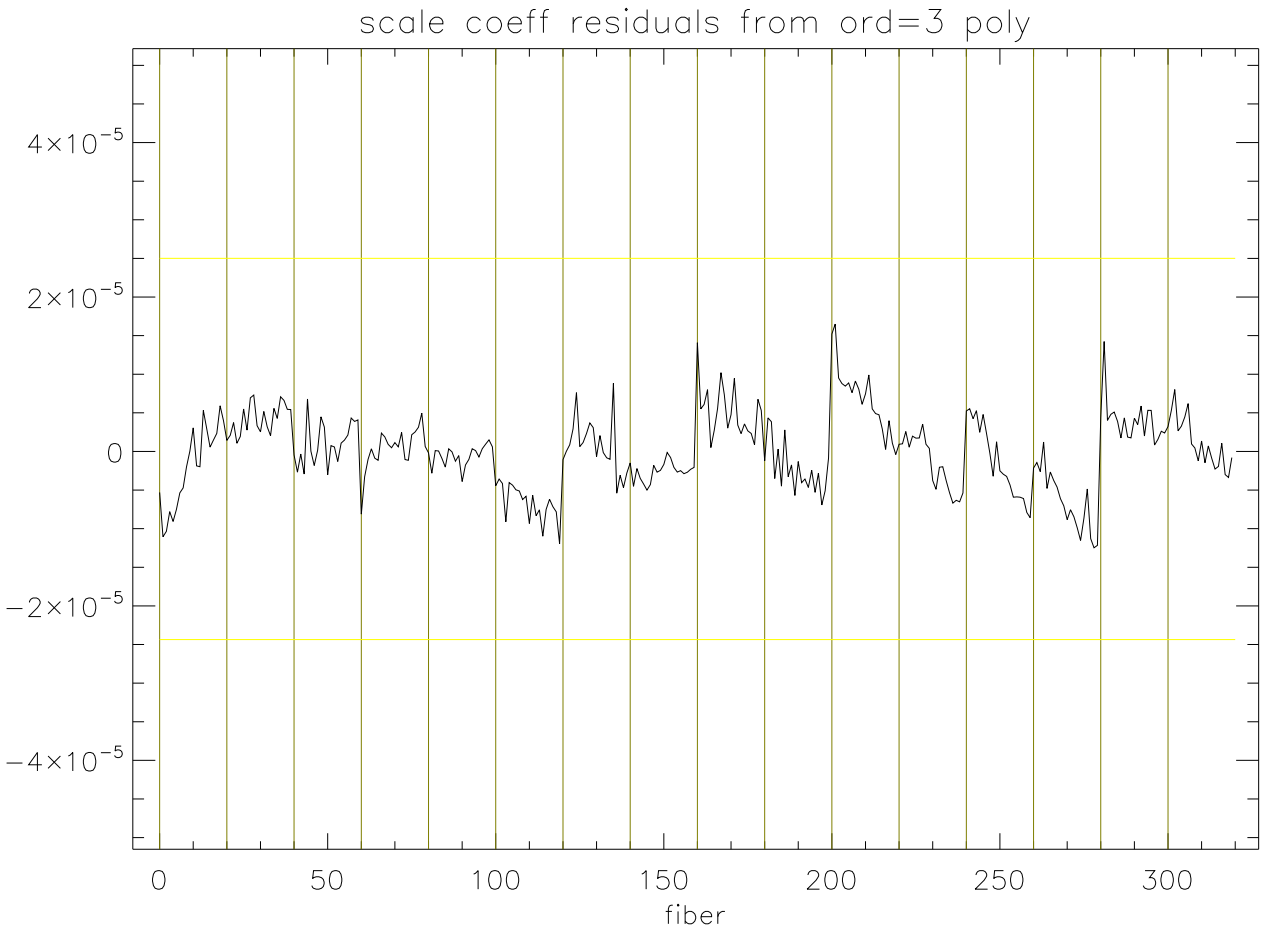

PLATE=0742 MJD=52263 sdR-r1-00012306.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
60
40
20
0
-20
-40
-60
-80
8820
8840
8860
8880
8900
λ [A]

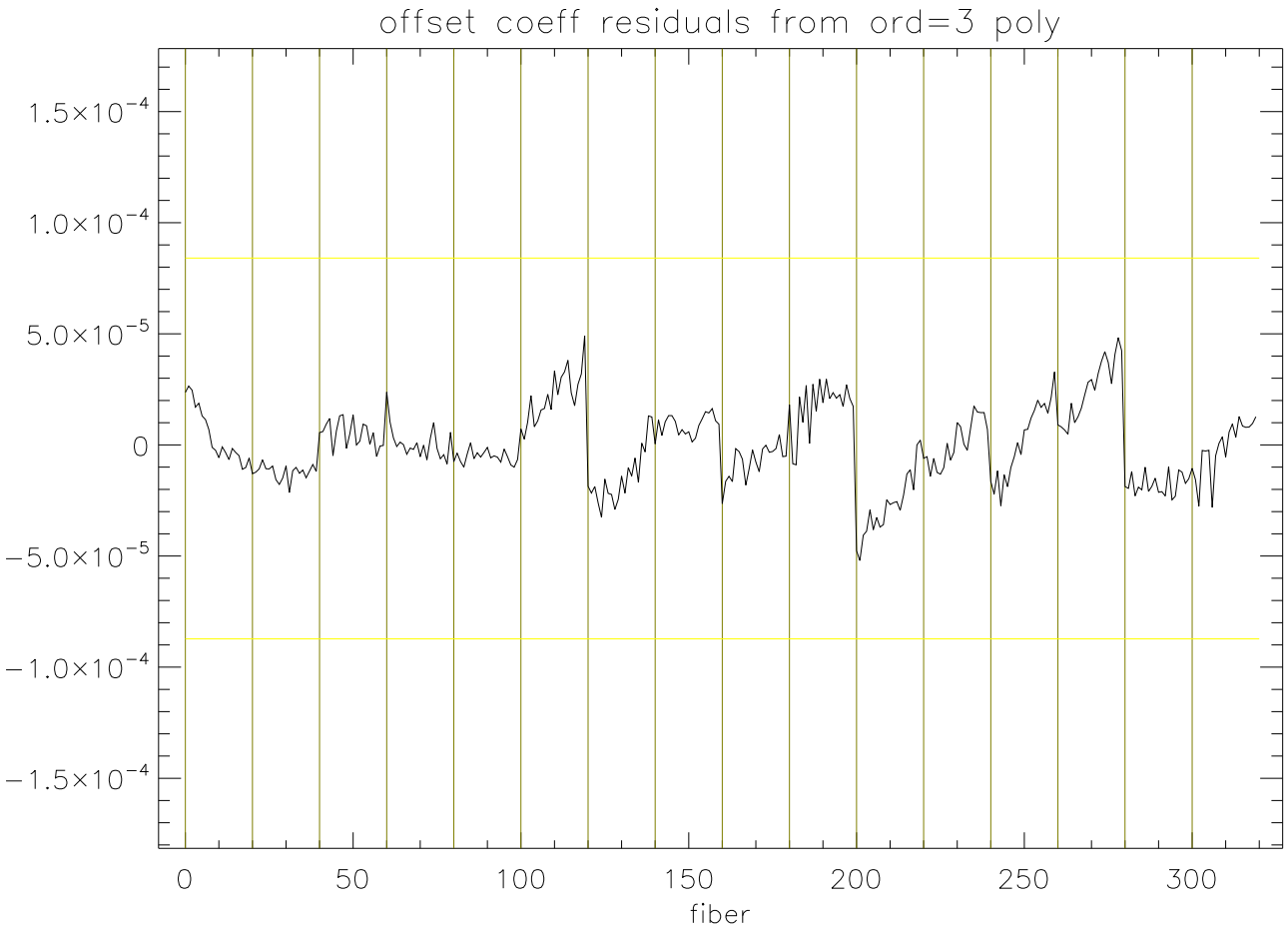

Number of sky fibers = 12
PLATE=0742 MJD=52263 sdR-r1-00012306.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

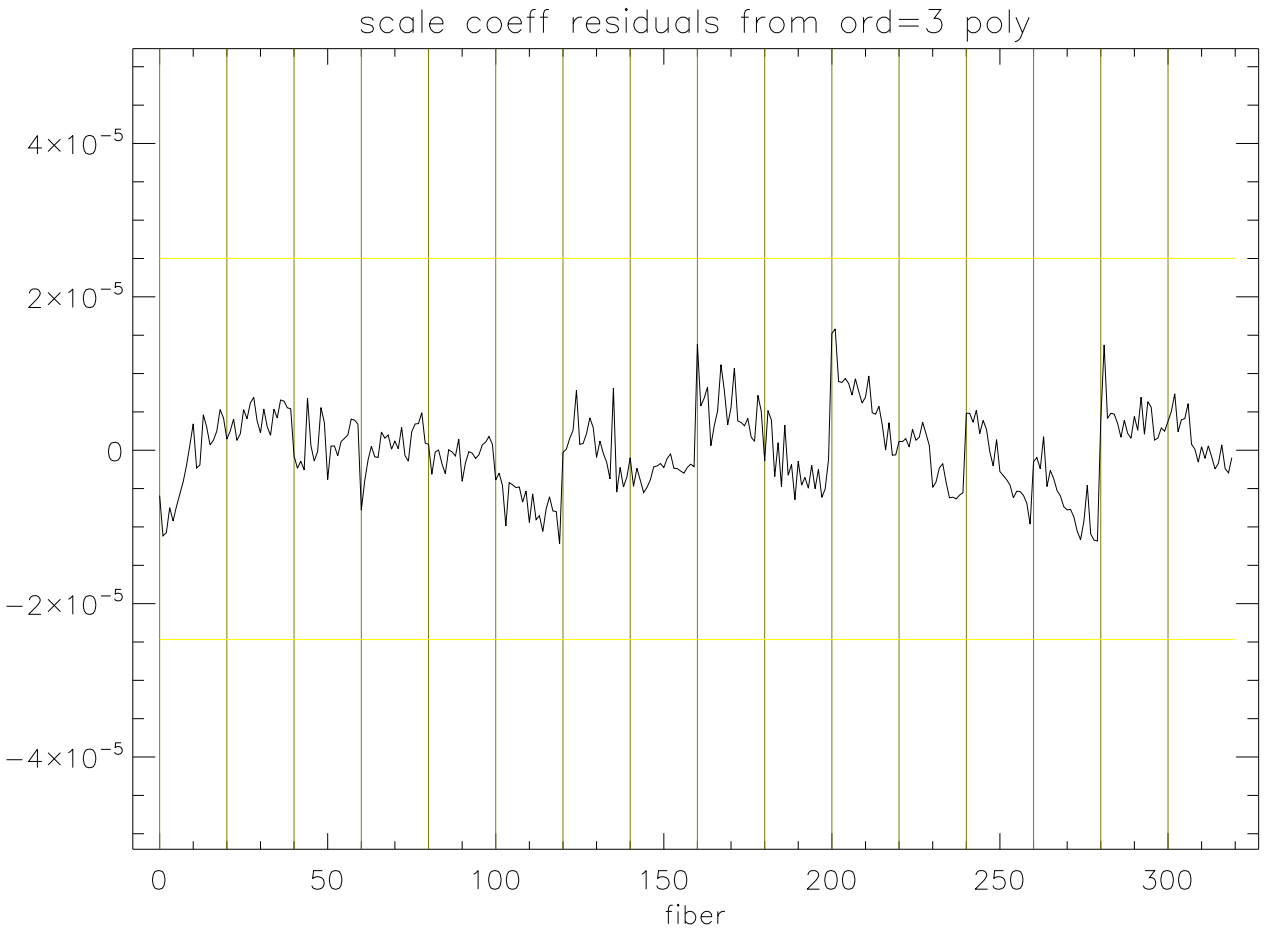

PLATE=0742 MJD=52263 sdR-r1-00012306.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 9.30 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

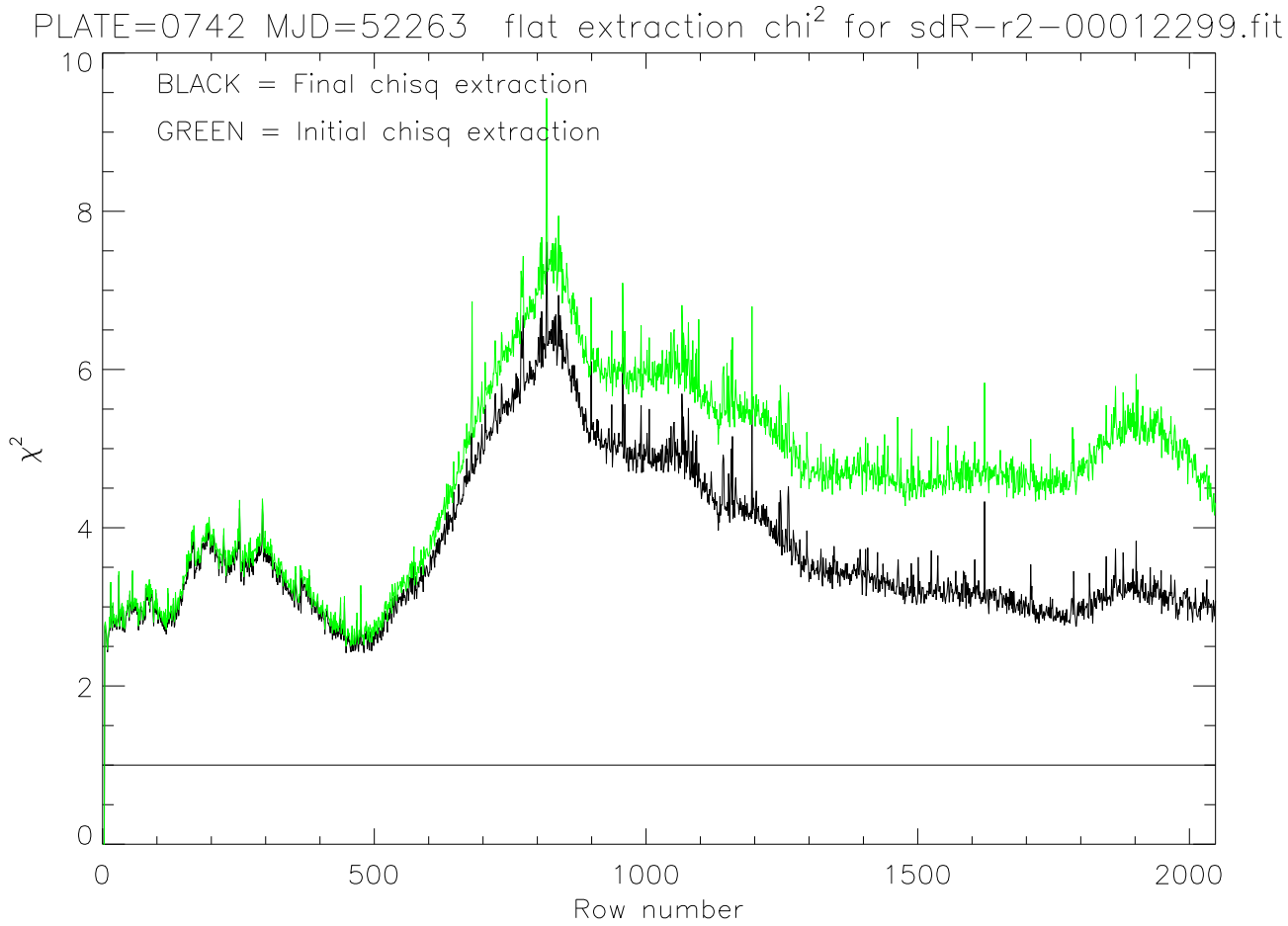

PLATE=0742 MJD=52263 sdR-r1-00012306.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.71 %
Fiber number
Focal Distance [mm]
Airmass

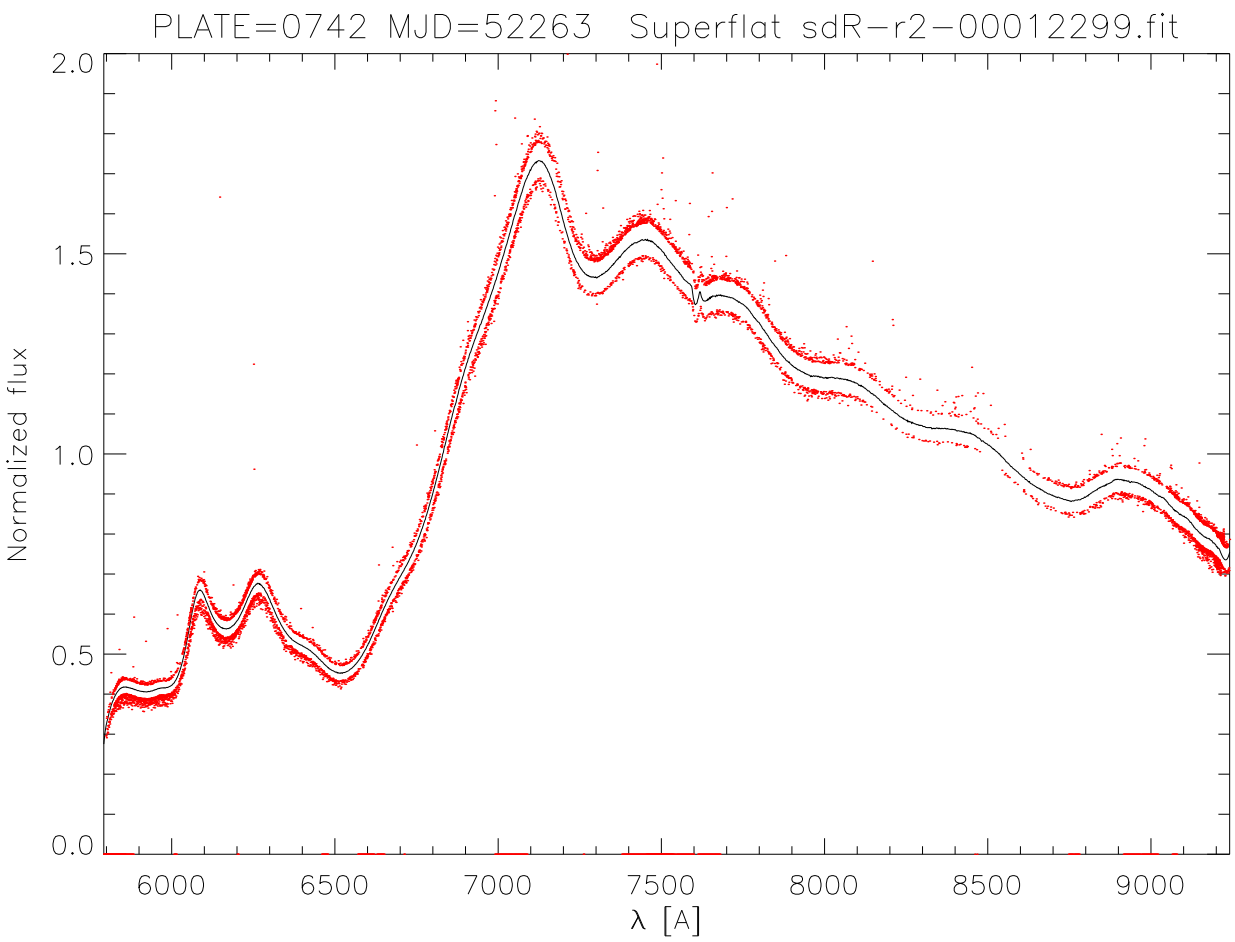

offset coeff residuals from ord=3 poly
1.5×10^-4
1.0×10^-4
5.0×10^-5
0
−5.0×10^-5
−1.0×10^-4
−1.5×10^-4
0
50
100
150
200
250
300
fiber

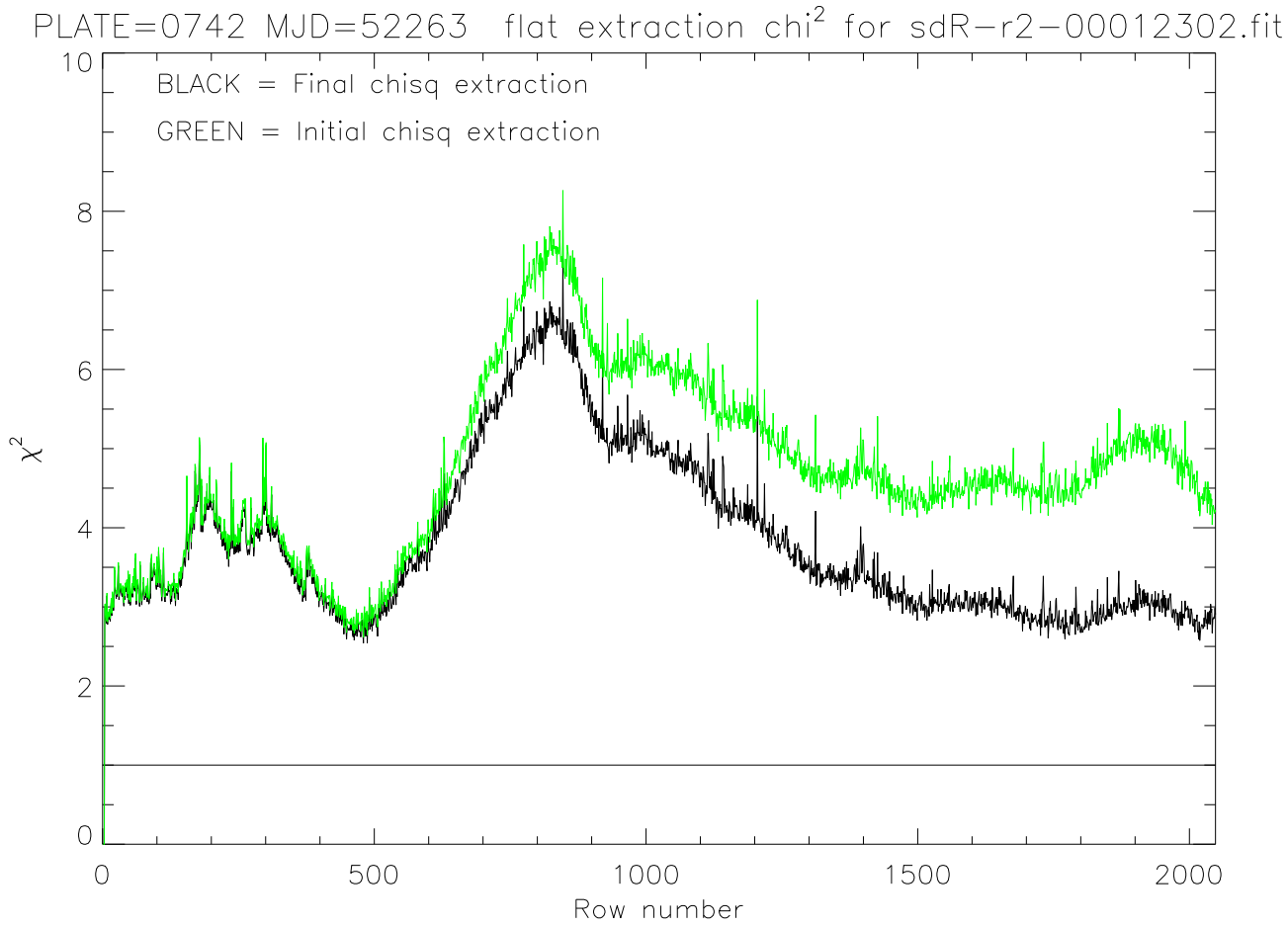

scale coeff residuals from ord=3 poly
4×10^-5
2×10^-5
0
−2×10^-5
−4×10^-5
0
50
100
150
200
250
300
fiber

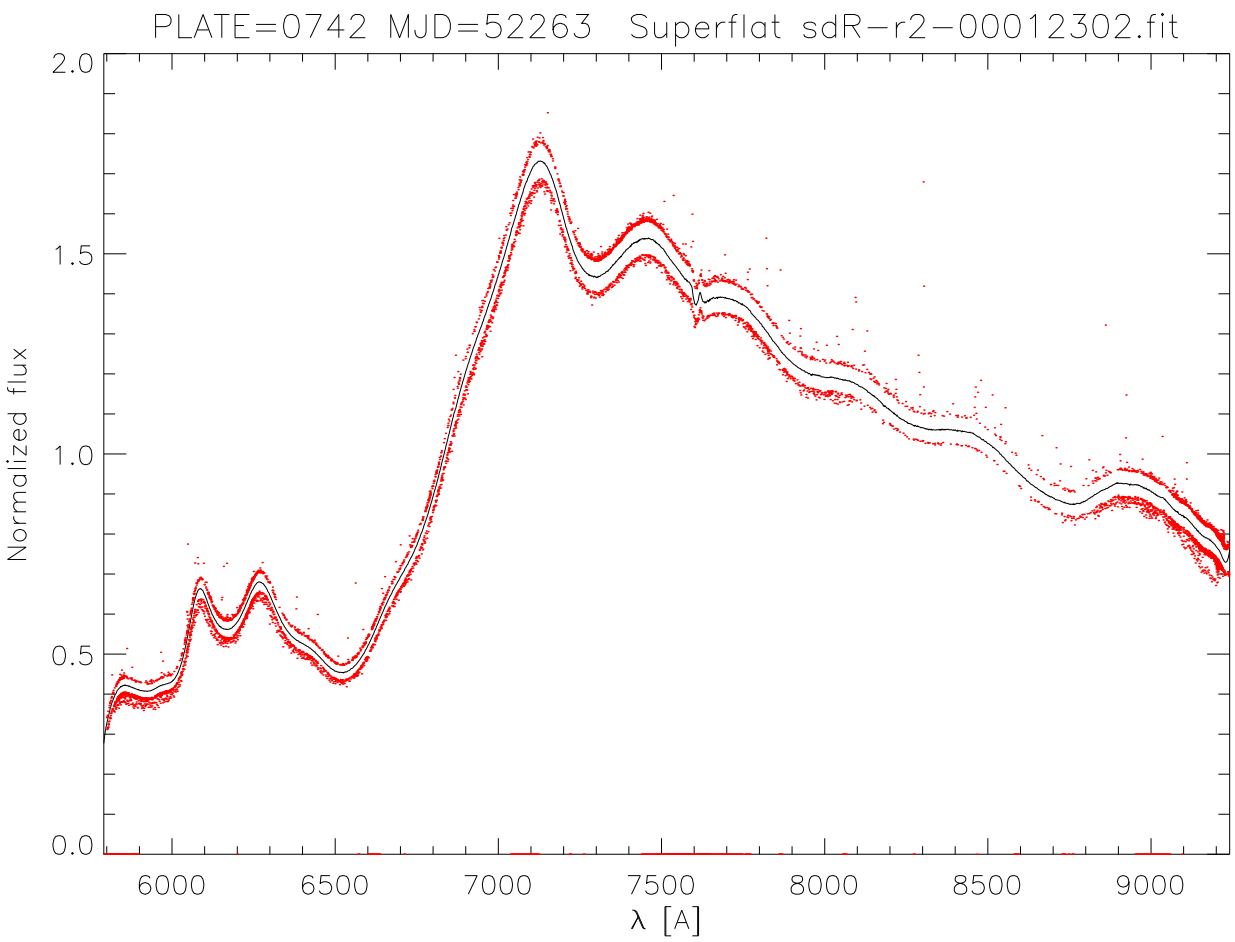

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

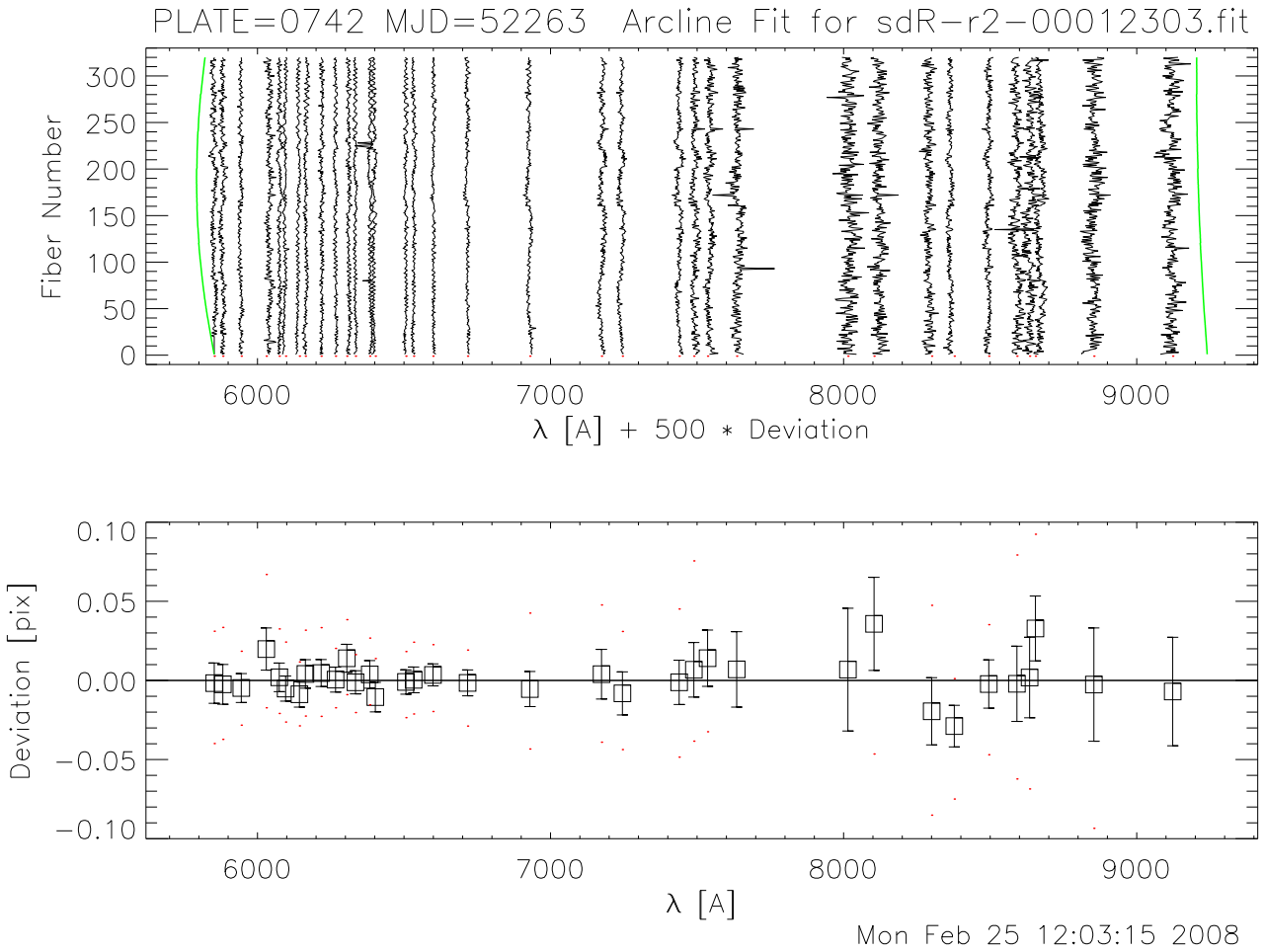

scale coeff residuals from ord=3 poly
4×10^-5
2×10^-5
0
−2×10^-5
−4×10^-5
0
50
100
150
200
250
300
fiber

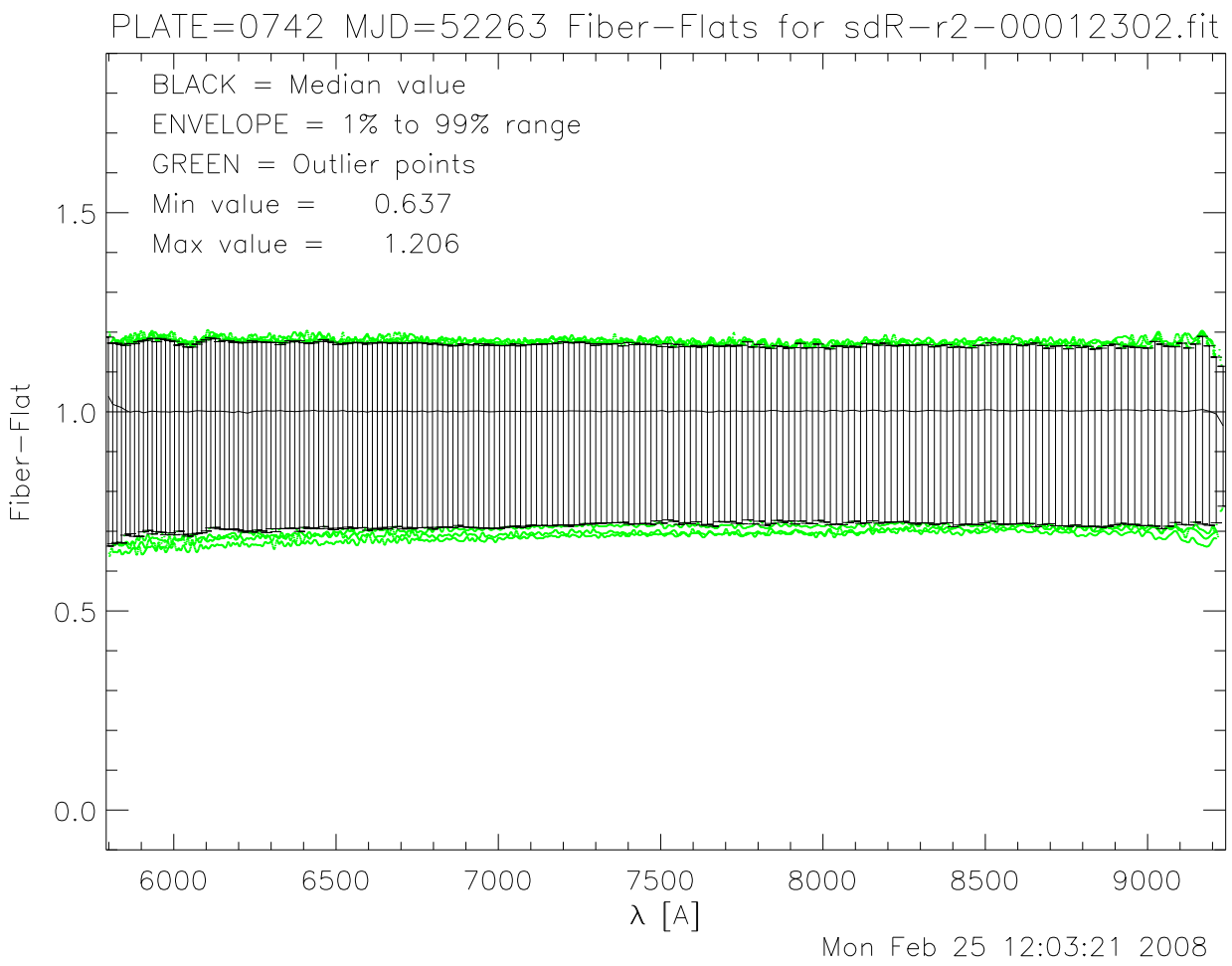

PLATE=0742 MJD=52263 flat extraction chi^2 for sdR−r2−00012299.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

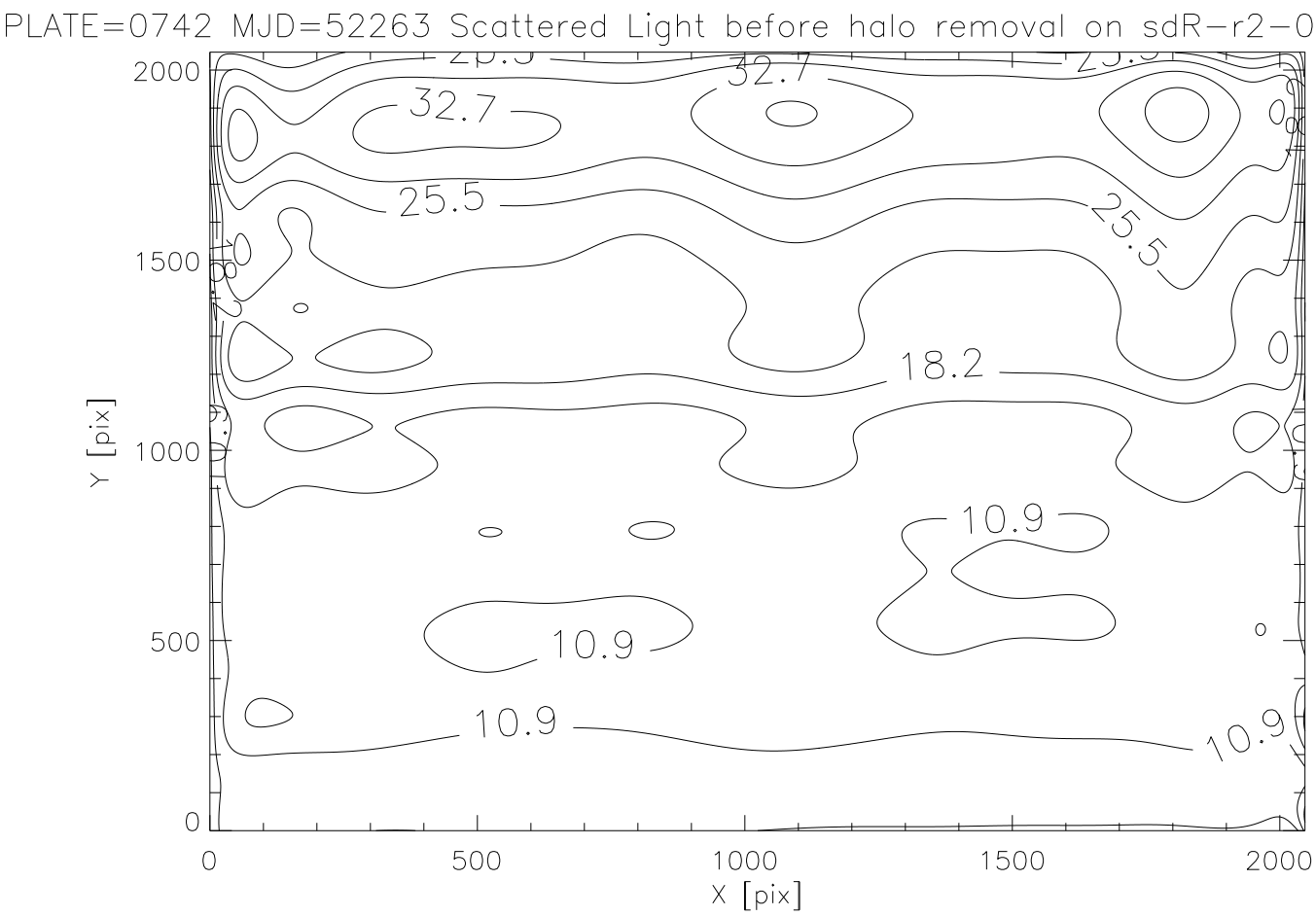

PLATE=0742 MJD=52263 Superflat sdR-r2-00012299.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

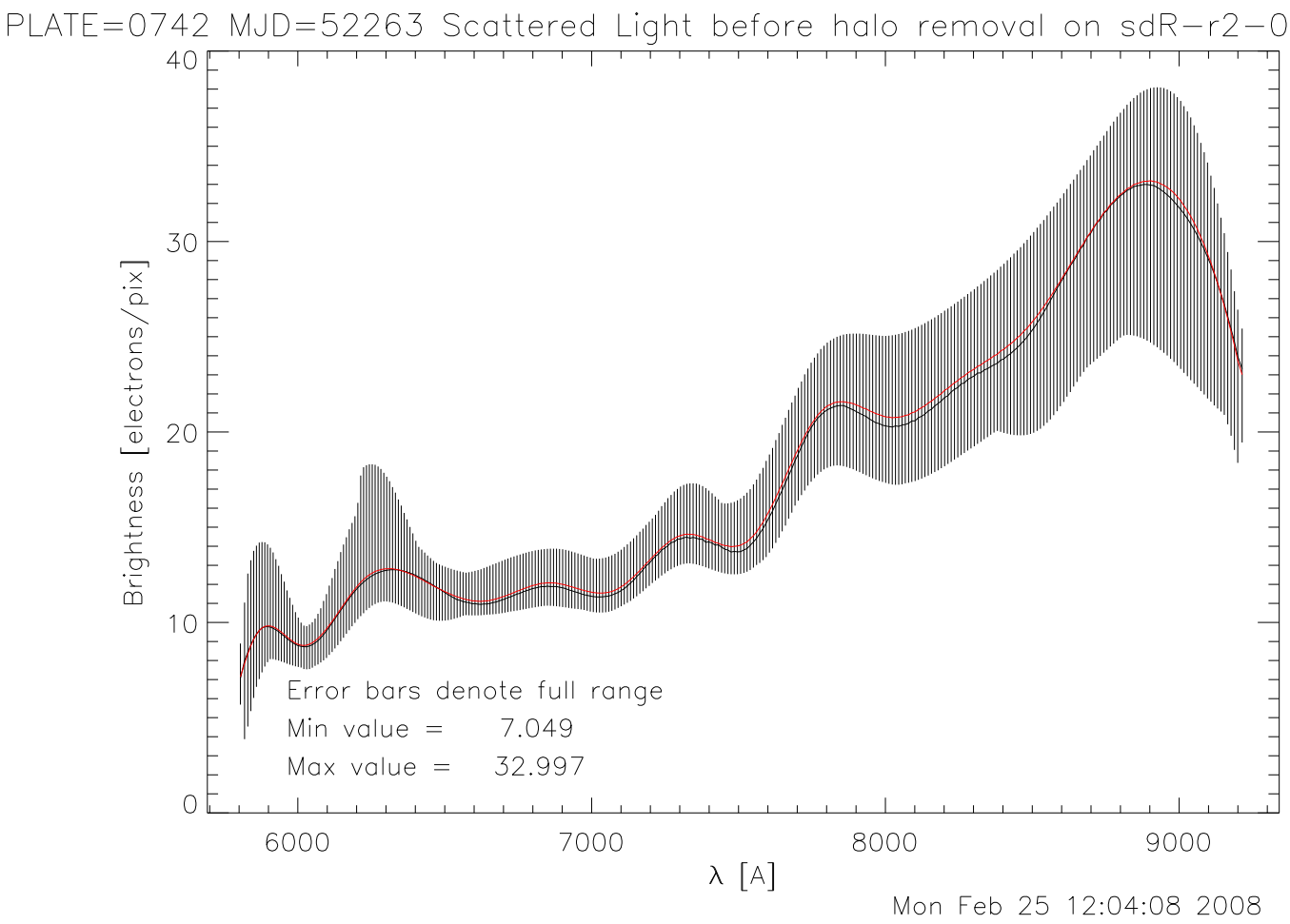

PLATE=0742 MJD=52263 flat extraction chi^2 for sdR−r2−00012302.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

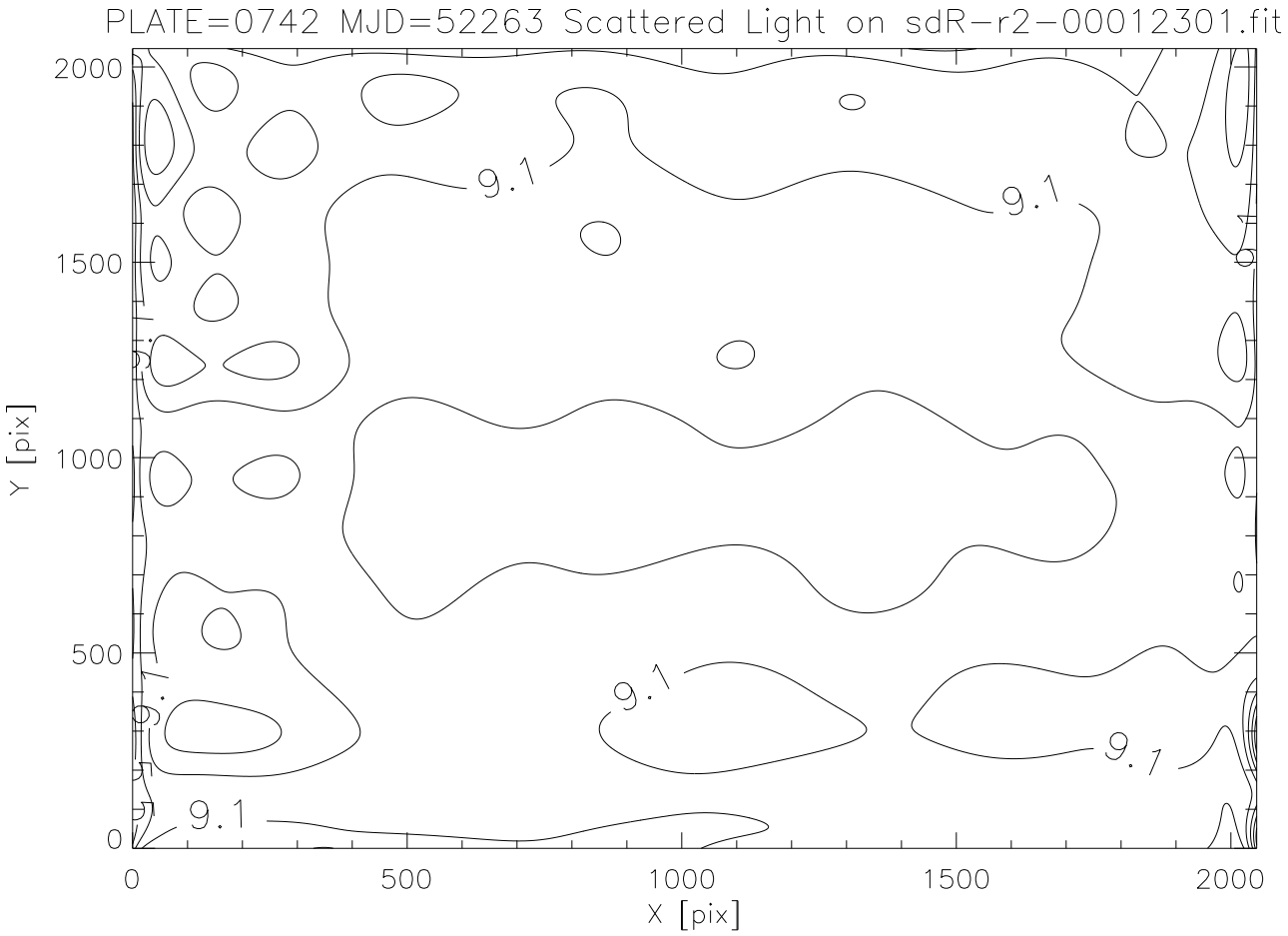

PLATE=0742 MJD=52263 Superflat sdR-r2-00012302.fit
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
6000
6500
7000
7500
8000
8500
9000

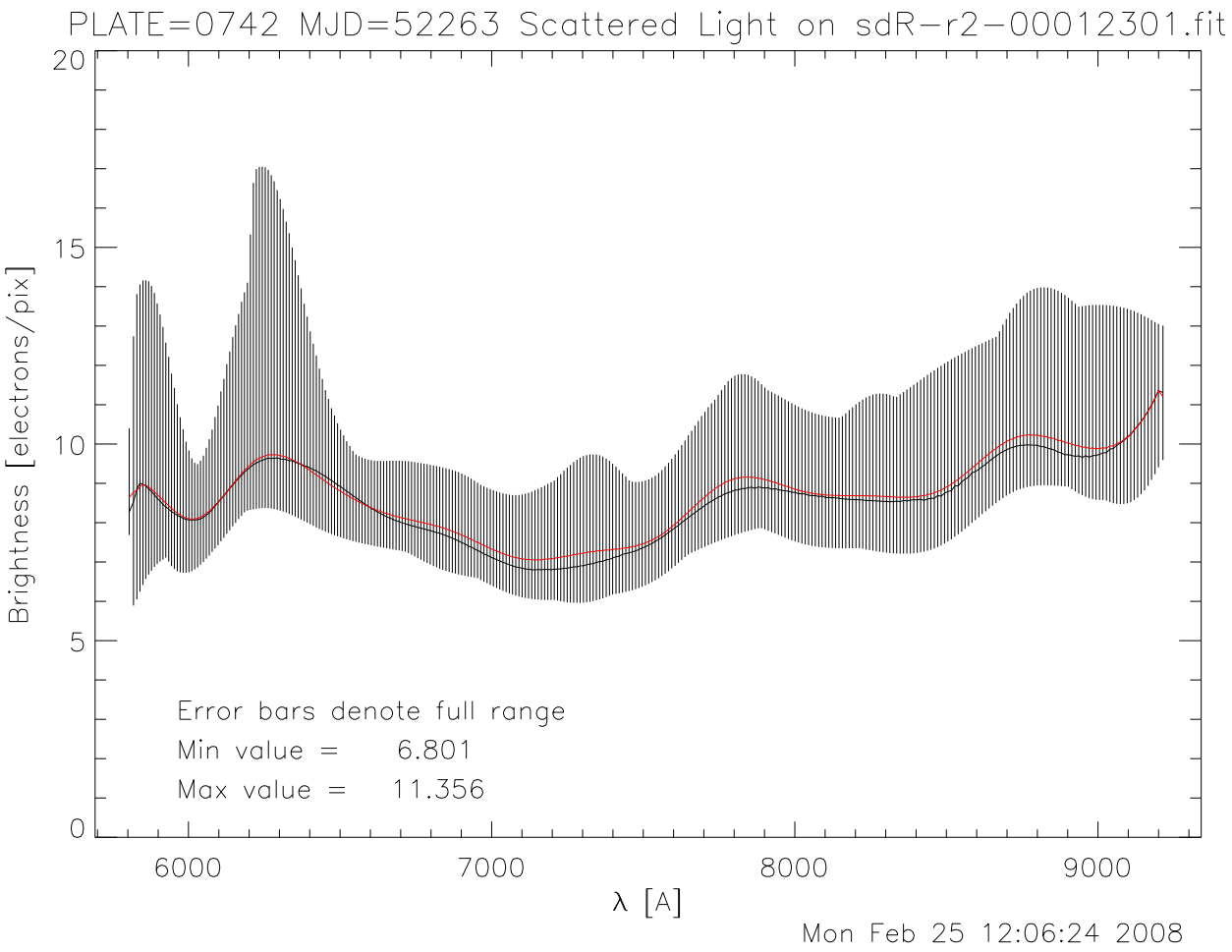

PLATE=0742 MJD=52263 Arcline Fit for sdR-r2-00012303.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Mon Feb 25 12:03:15 2008

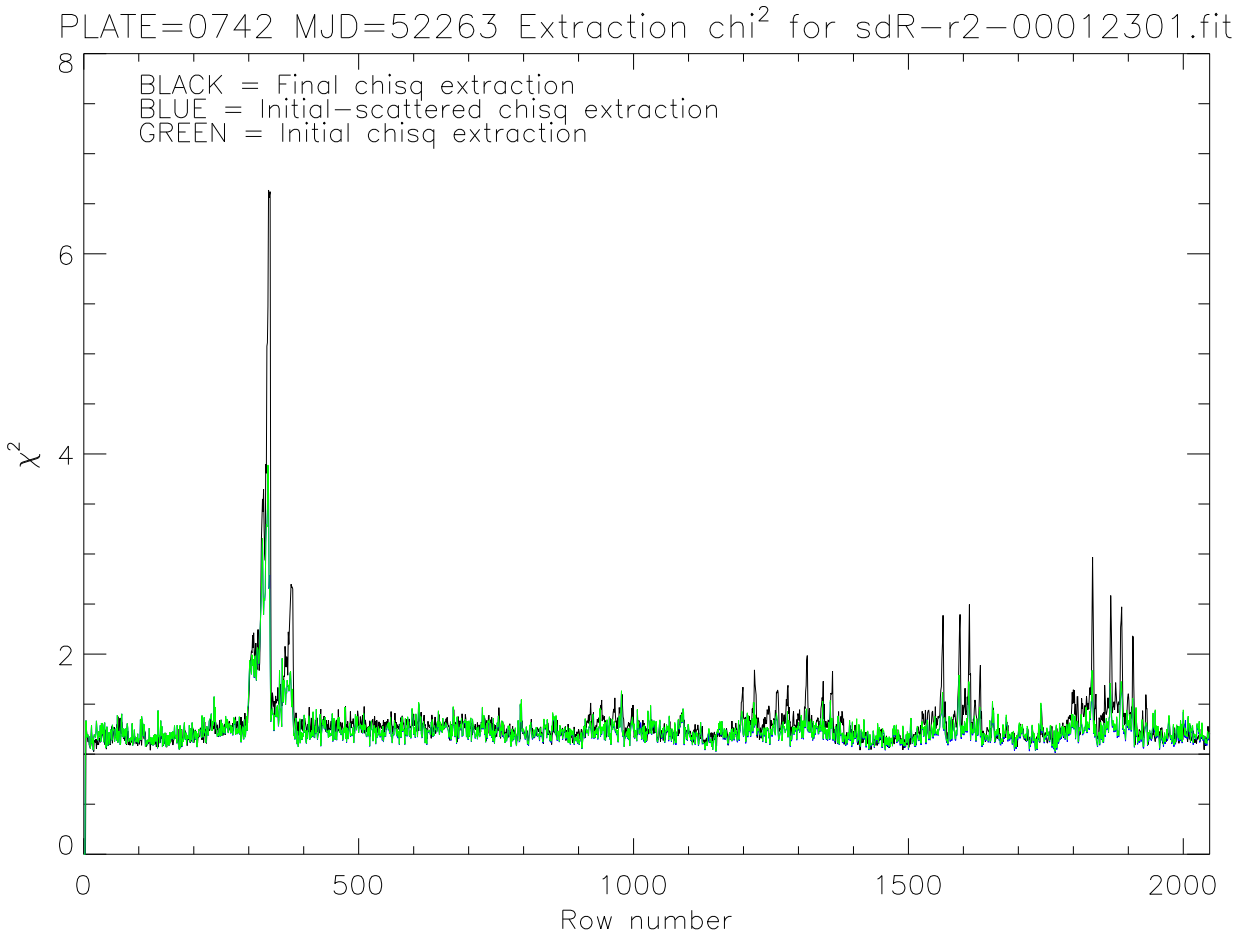

PLATE=0742 MJD=52263 Fiber-Flats for sdR-r2-00012302.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.637
Max value = 1.206
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 25 12:03:21 2008

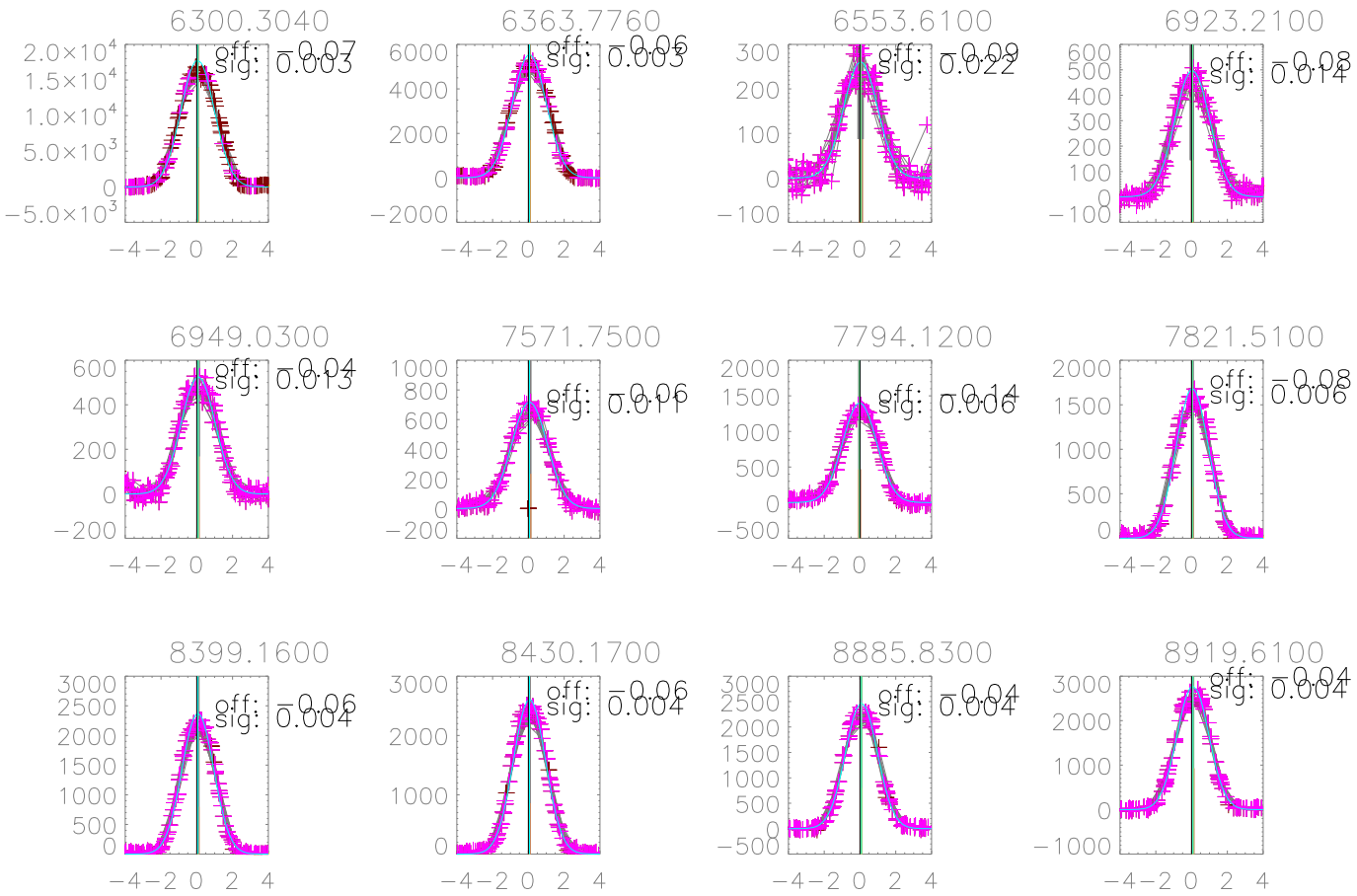

PLATE=0742 MJD=52263 Scattered Light before halo removal on sdR−r2−00012301.fi
32.7
32.7
25.5
25.5
18.2
10.9
10.9
10.9
10.9
Y [pix]
X [pix]
0
500
1000
1500
2000

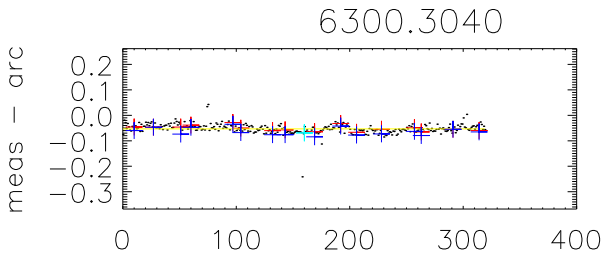

PLATE=0742 MJD=52263 Scattered Light before halo removal on sdR-r2-00012301.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.049
Max value = 32.997
Mon Feb 25 12:04:08 2008

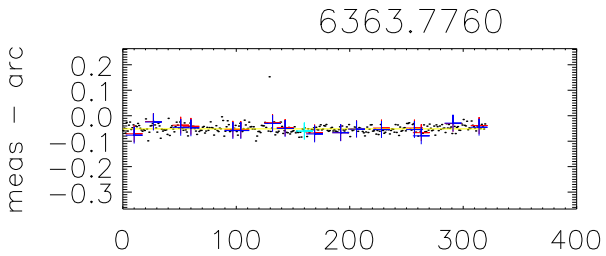

PLATE=0742 MJD=52263 Scattered Light on sdR-r2-00012301.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
9.1
9.1
9.1
9.1
9.1

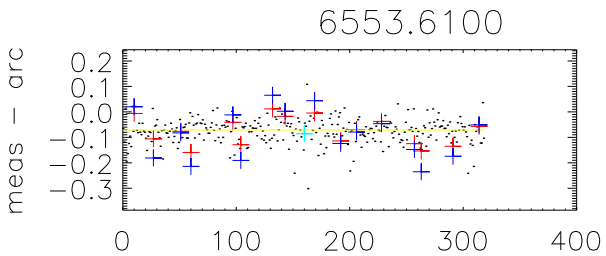

PLATE=0742 MJD=52263 Scattered Light on sdR-r2-00012301.fit
Brightness [electrons/pix]
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 6.801
Max value = 11.356
Mon Feb 25 12:06:24 2008

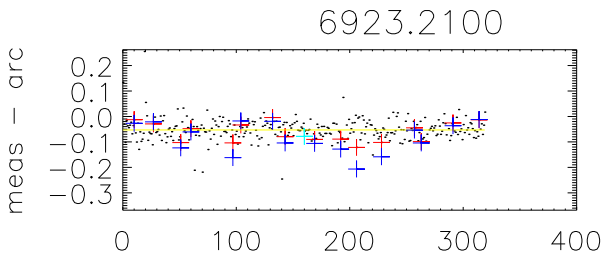

PLATE=0742 MJD=52263 Extraction chi^2 for sdR−r2−00012301.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

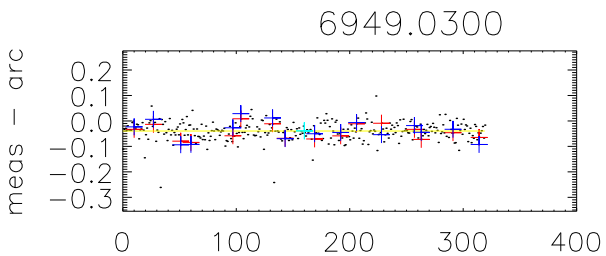

6300.3040
off: −0.07
sig: 0.003
6363.7760
off: −0.06
sig: 0.003
6553.6100
off: −0.09
sig: 0.022
6923.2100
off: −0.08
sig: 0.014
6949.0300
off: −0.04
sig: 0.013
7571.7500
off: −0.06
sig: 0.011
7794.1200
off: −0.14
sig: 0.006
7821.5100
off: −0.08
sig: 0.006
8399.1600
off: −0.06
sig: 0.004
8430.1700
off: −0.06
sig: 0.004
8885.8300
off: −0.04
sig: 0.004
8919.6100
off: −0.04
sig: 0.004

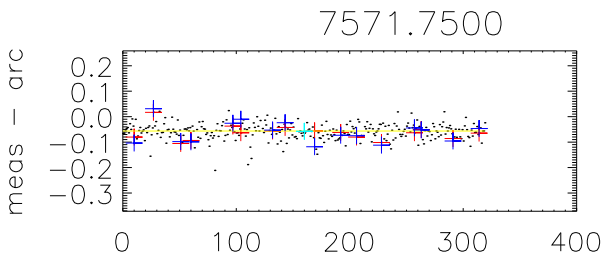

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

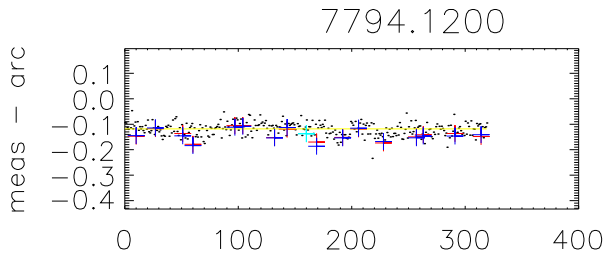

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

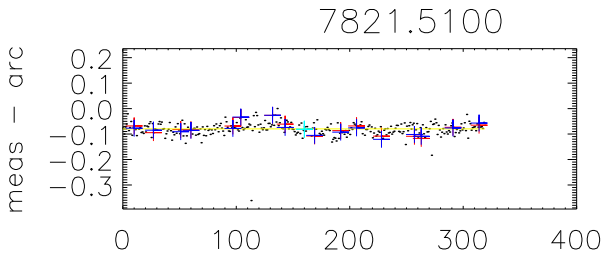

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

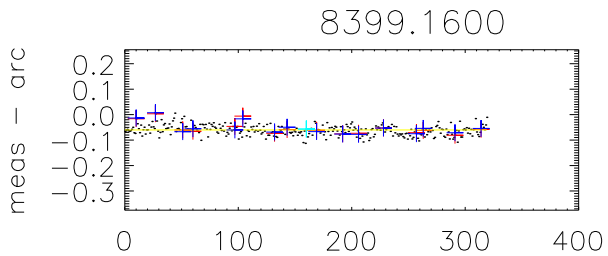

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

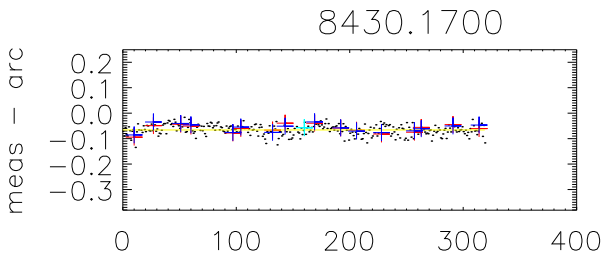

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

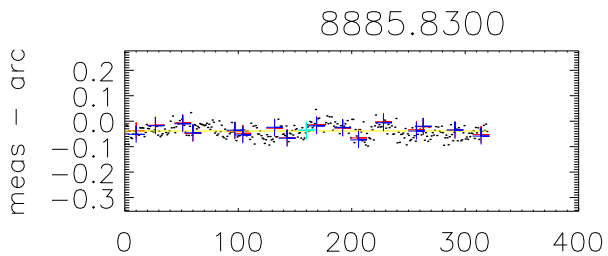

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

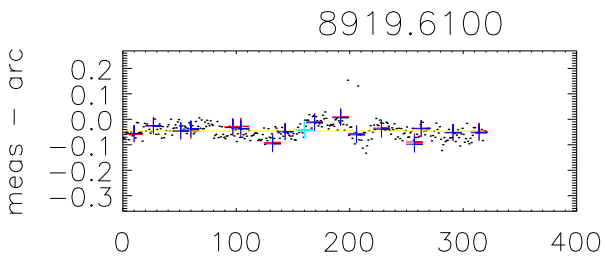

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

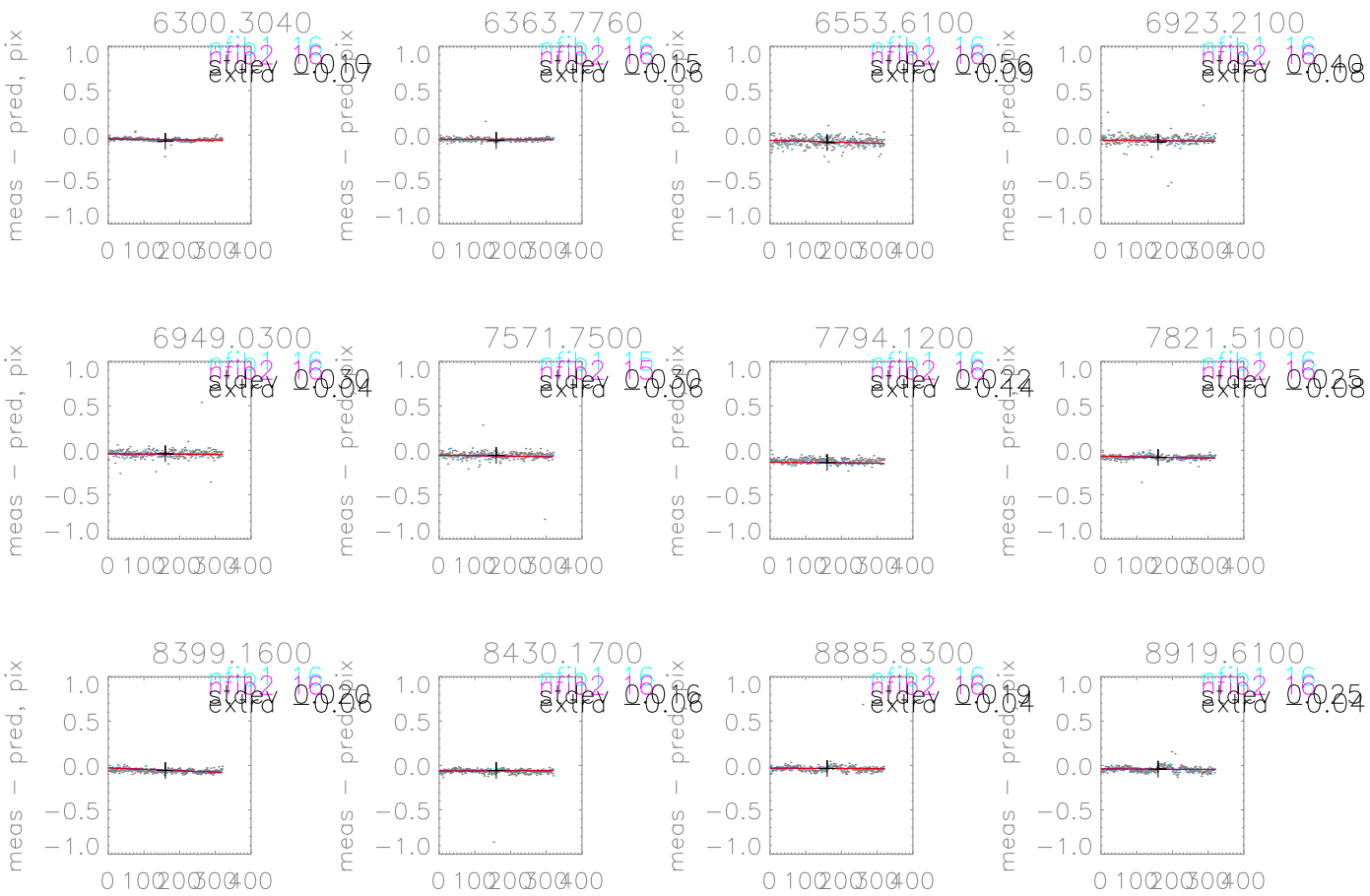

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

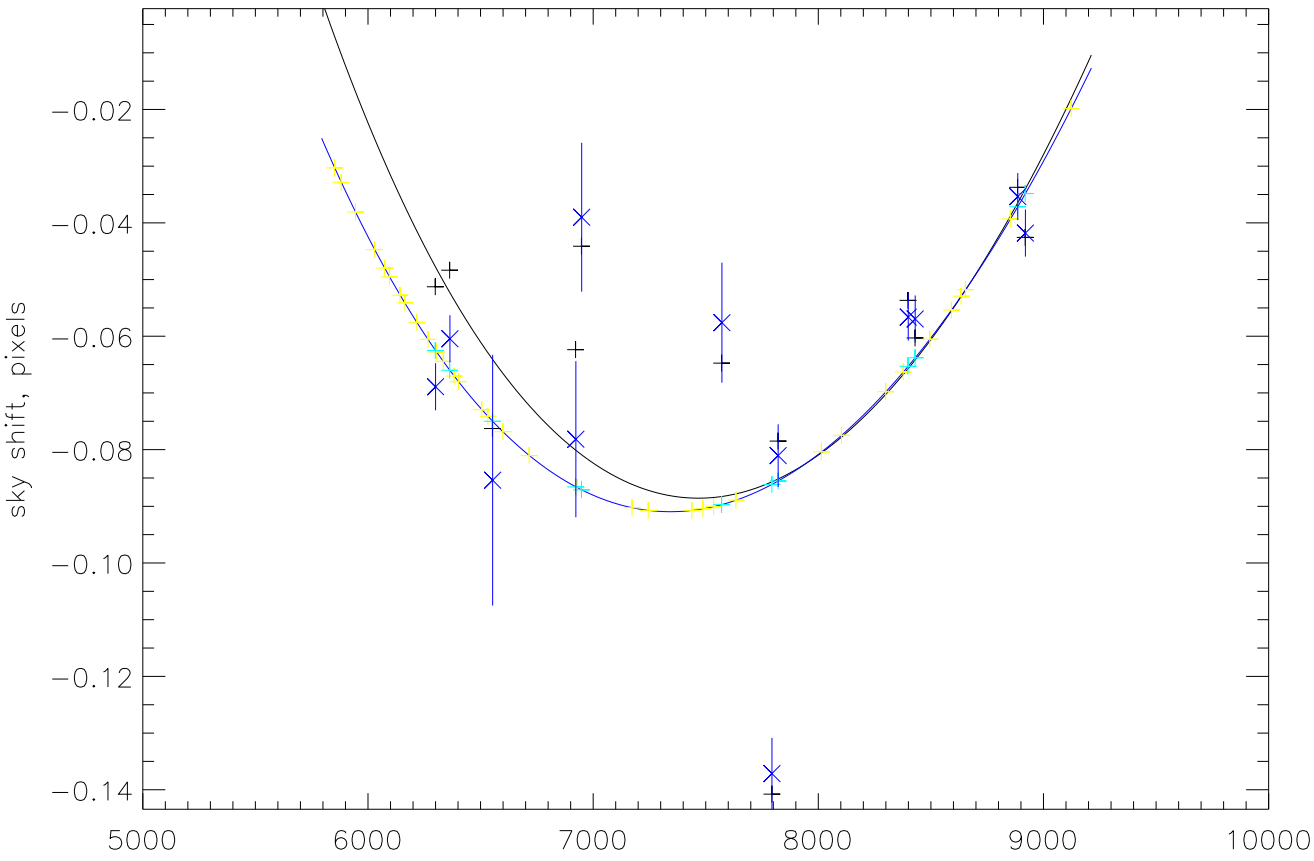

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

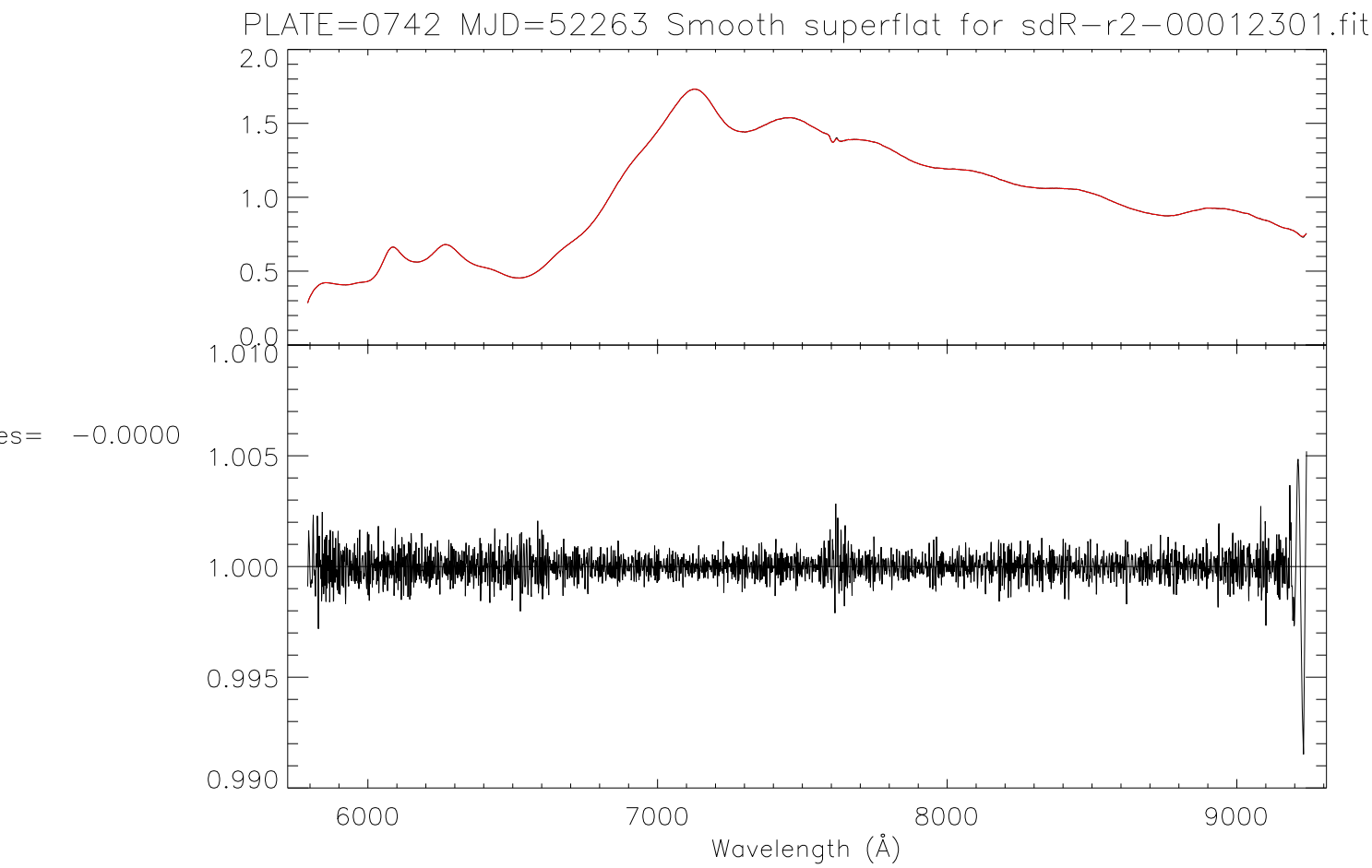

8430.1700
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

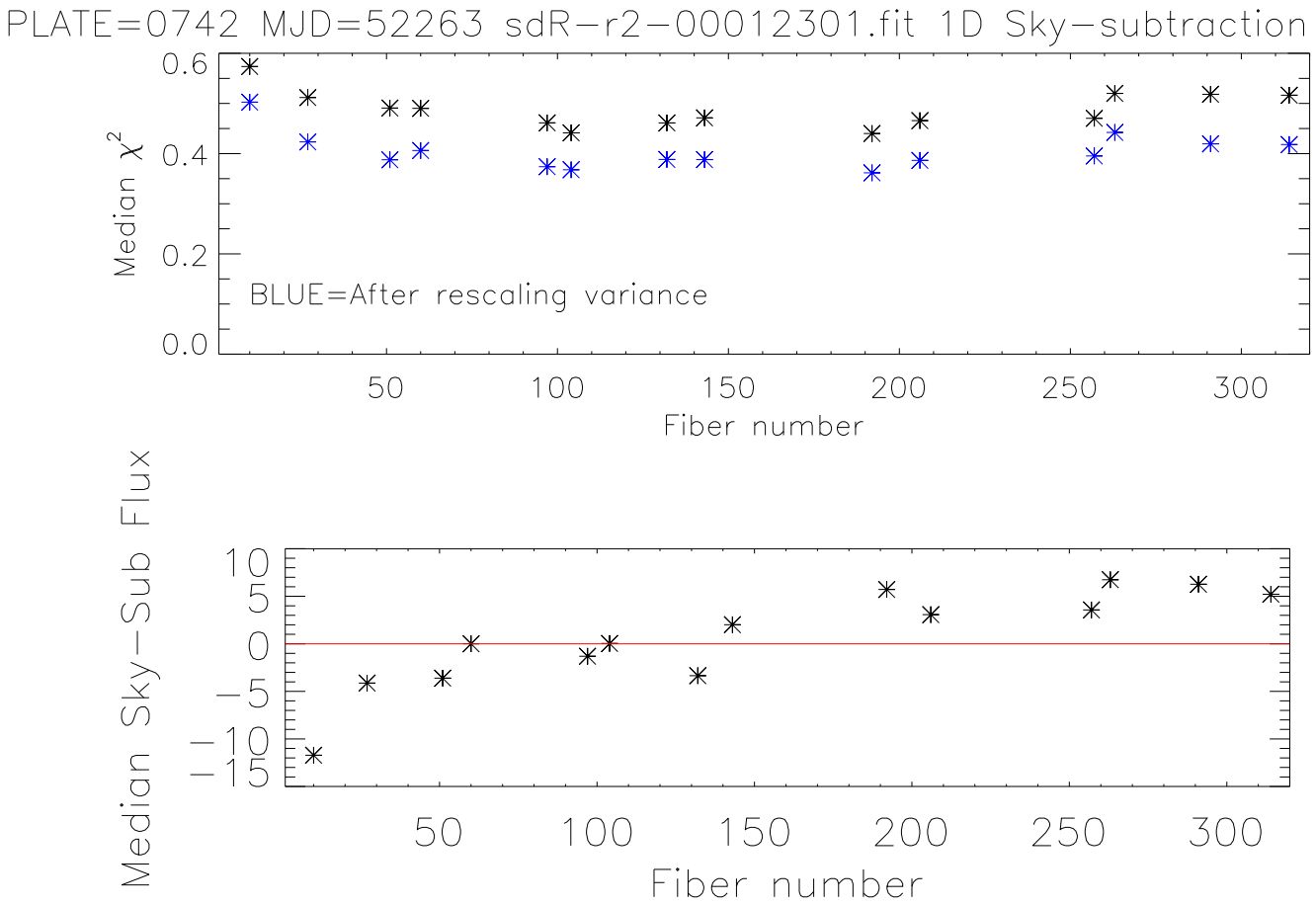

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

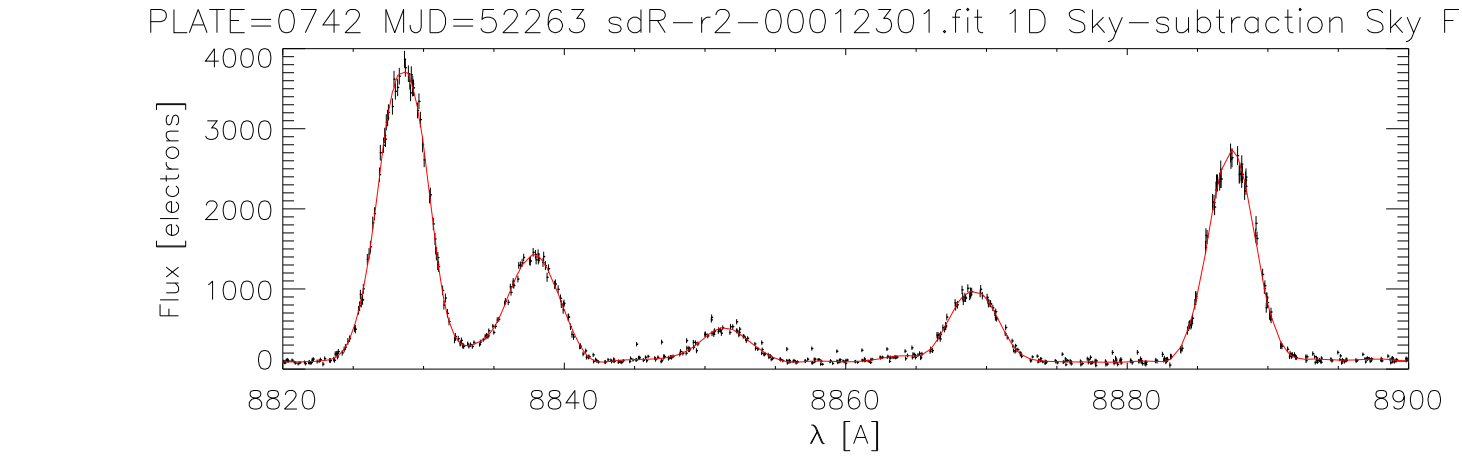

6300.3040
stdev 0.07
extra 0.00
6363.7760
stdev 0.08
extra 0.05
6553.6100
stdev 0.09
extra 0.06
6923.2100
stdev 0.08
extra 0.00
6949.0300
stdev 0.04
extra 0.00
7571.7500
stdev 0.06
extra 0.00
7794.1200
stdev 0.44
extra 0.02
7821.5100
stdev 0.08
extra 0.05
8399.1600
stdev 0.06
extra 0.00
8430.1700
stdev 0.06
extra 0.06
8885.8300
stdev 0.04
extra 0.09
8919.6100
stdev 0.04
extra 0.05
meas − pred, pix

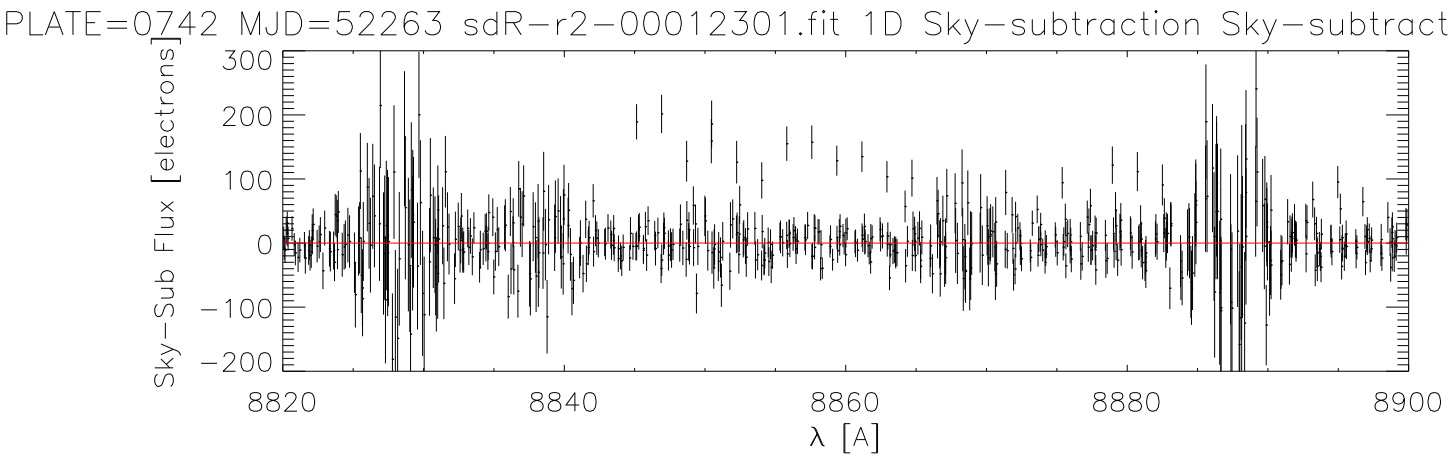

sky shift, pixels
−0.02
−0.04
−0.06
−0.08
−0.10
−0.12
−0.14
5000
6000
7000
8000
9000
10000

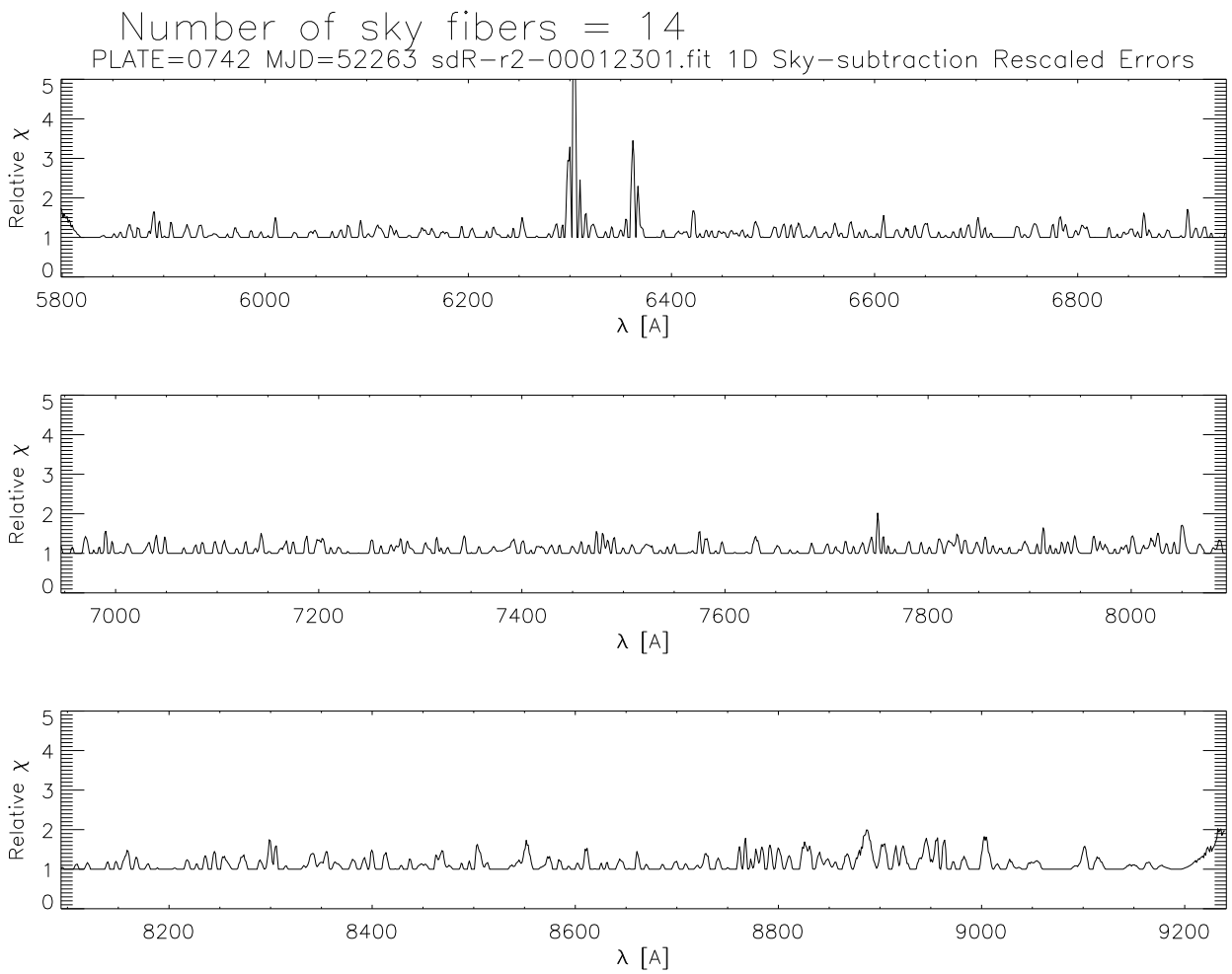

PLATE=0742 MJD=52263 Smooth superflat for sdR-r2-00012301.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

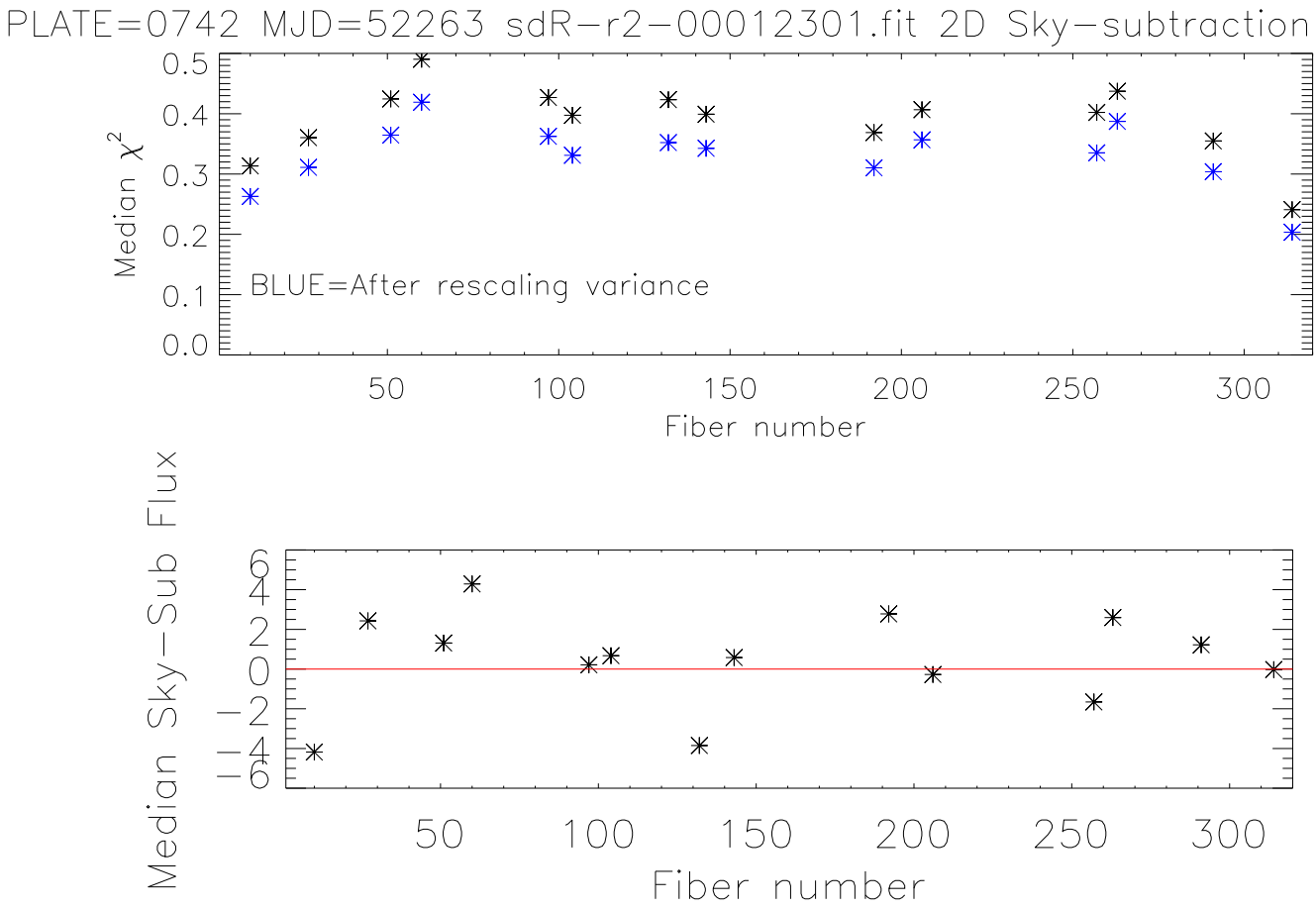
es= −0.0000

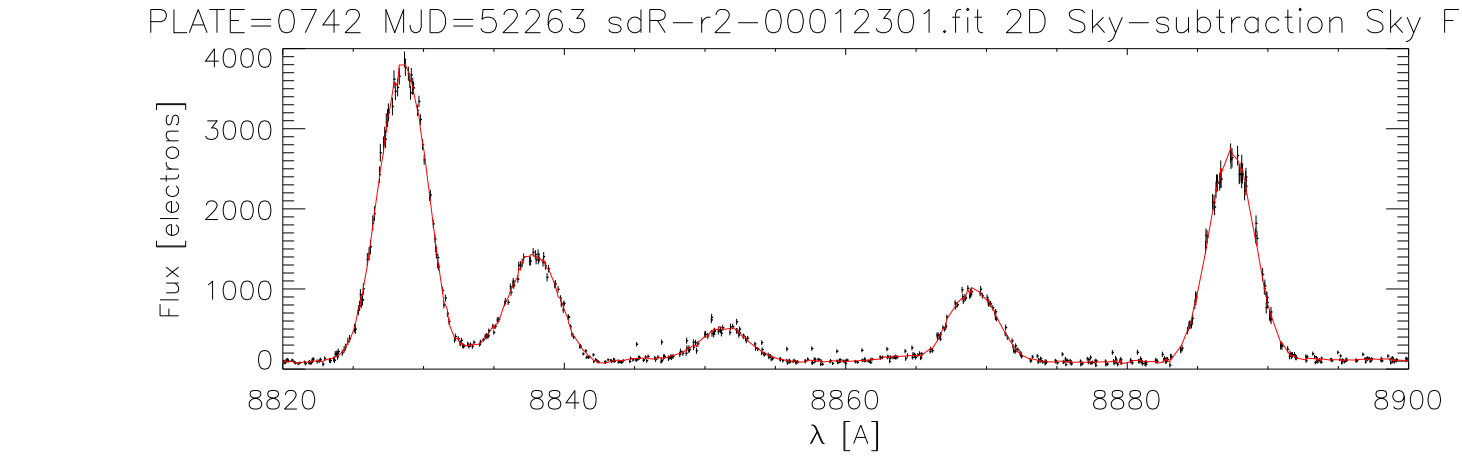

PLATE=0742 MJD=52263 sdR-r2-00012301.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

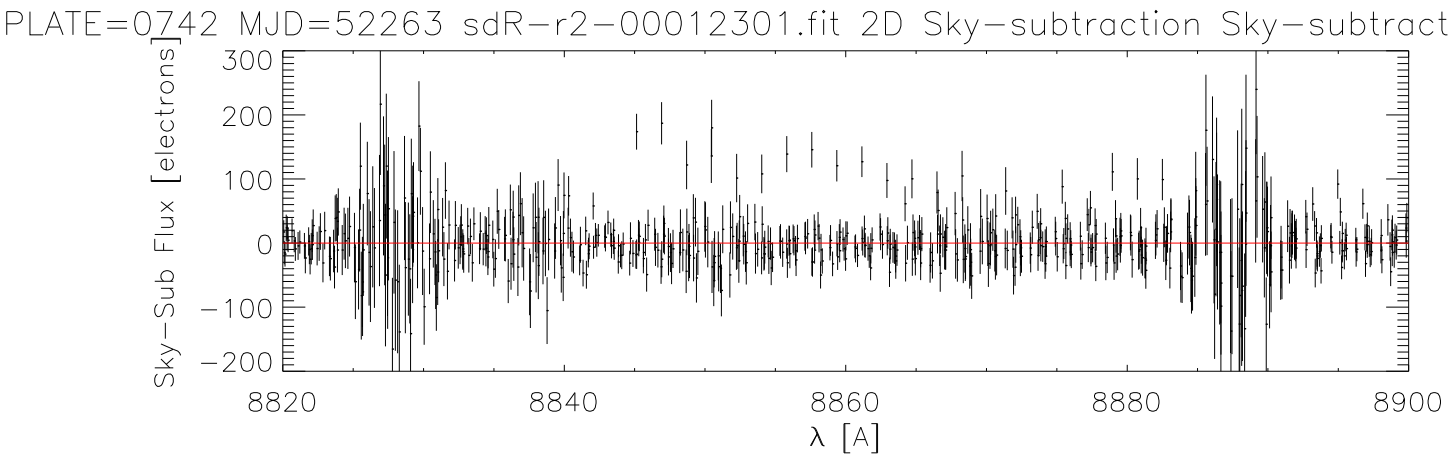

PLATE=0742 MJD=52263 sdR-r2-00012301.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

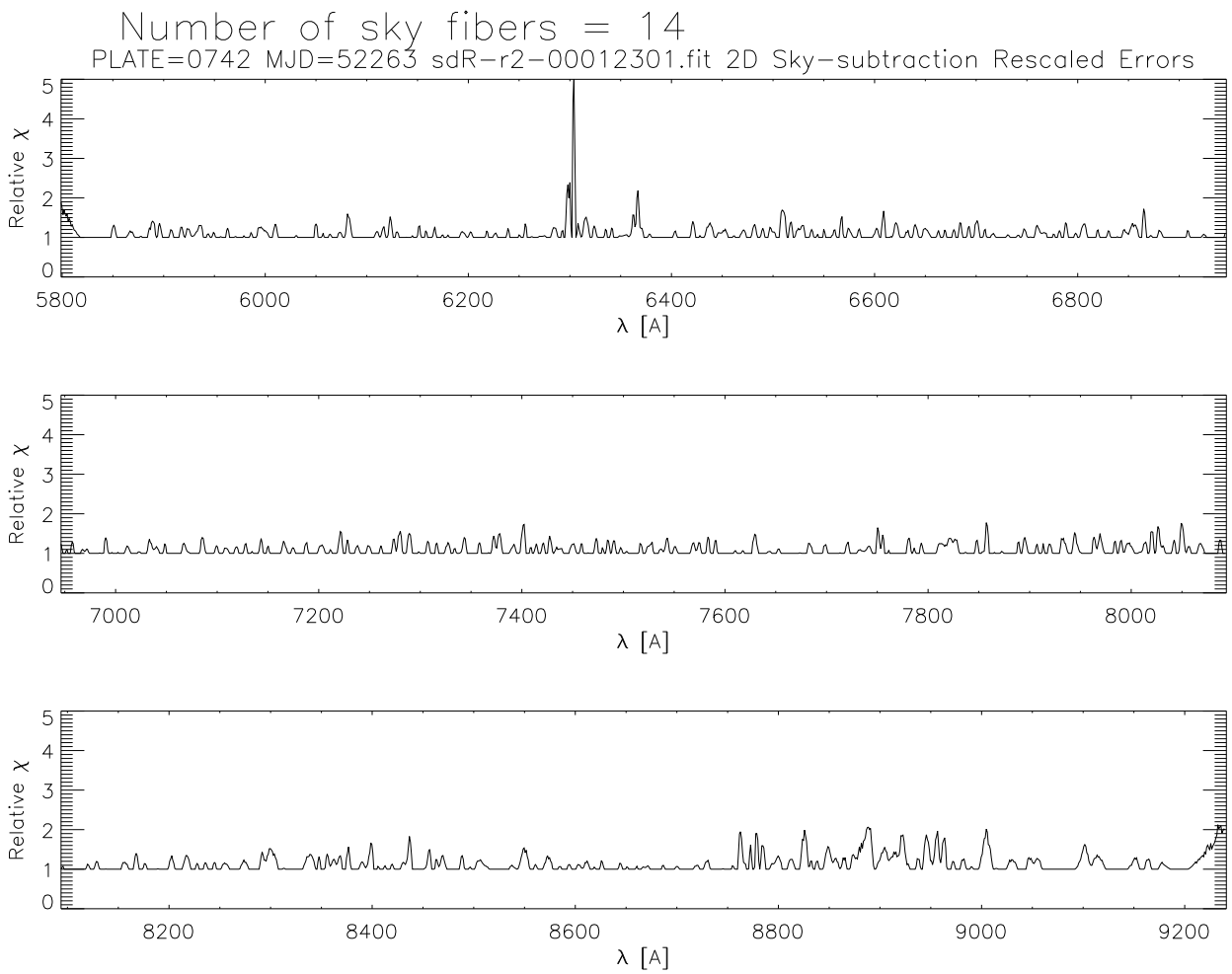

PLATE=0742 MJD=52263 sdR-r2-00012301.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

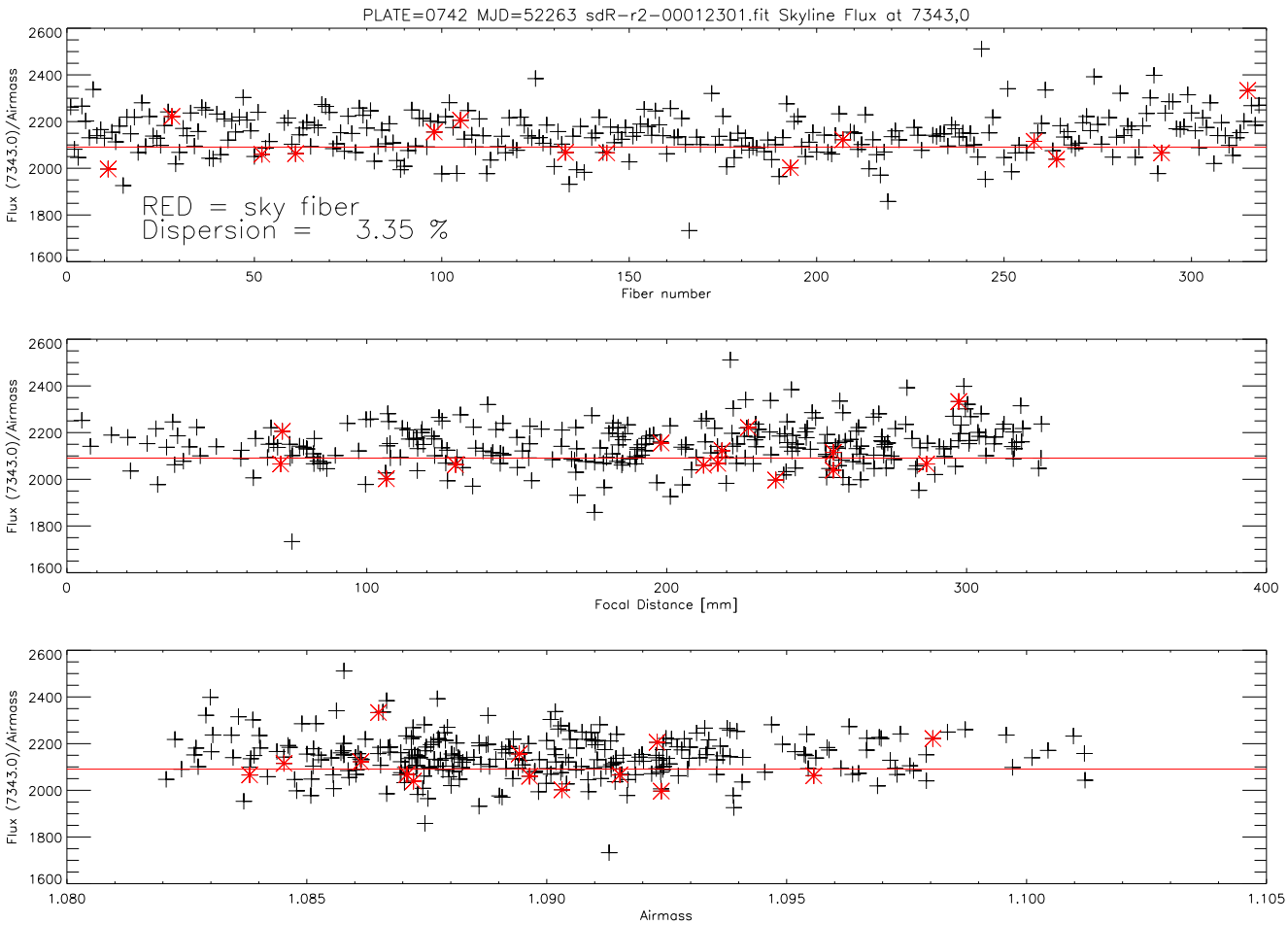

Number of sky fibers = 14
PLATE=0742 MJD=52263 sdR-r2-00012301.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

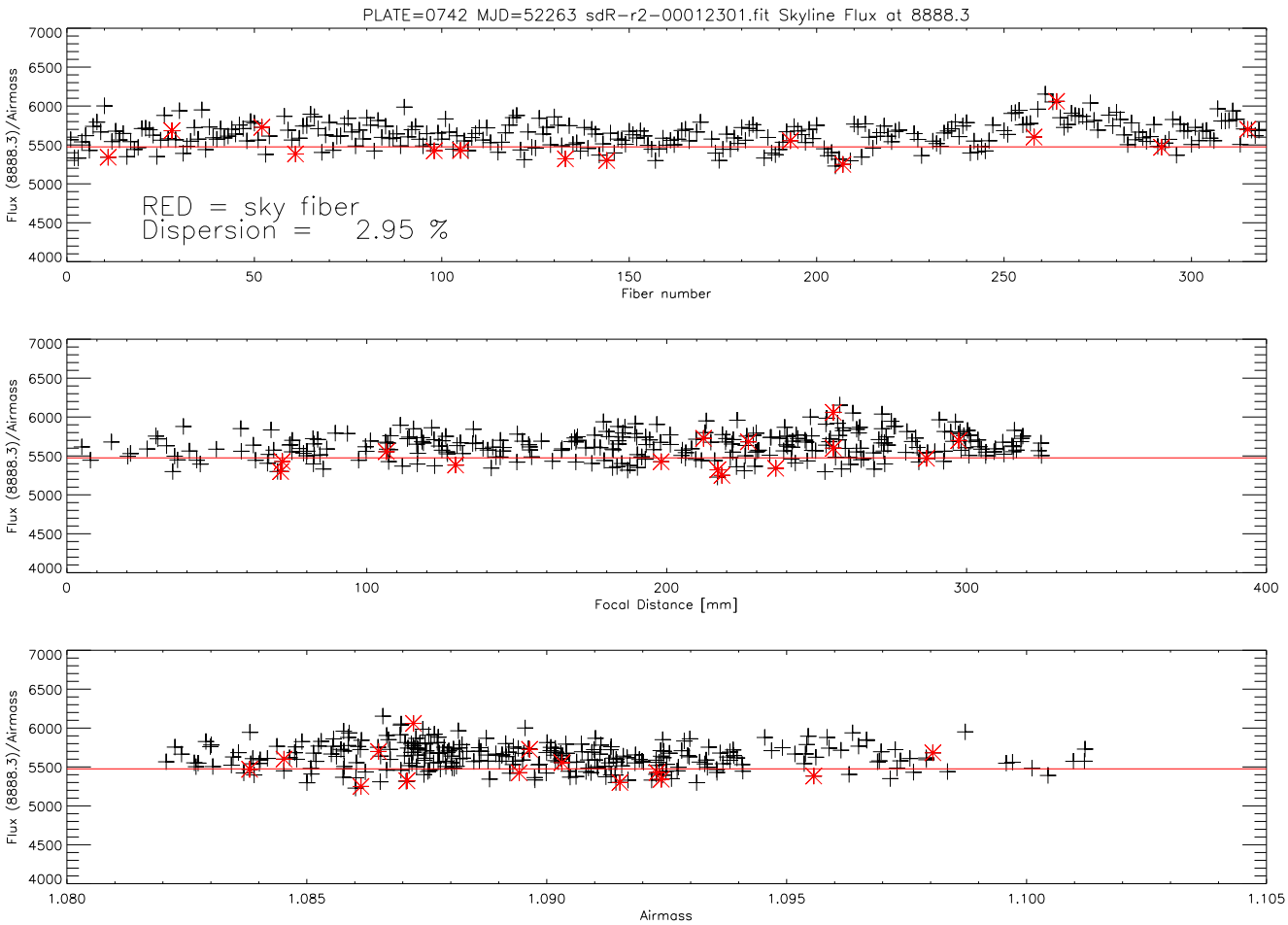

PLATE=0742 MJD=52263 sdR-r2-00012301.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

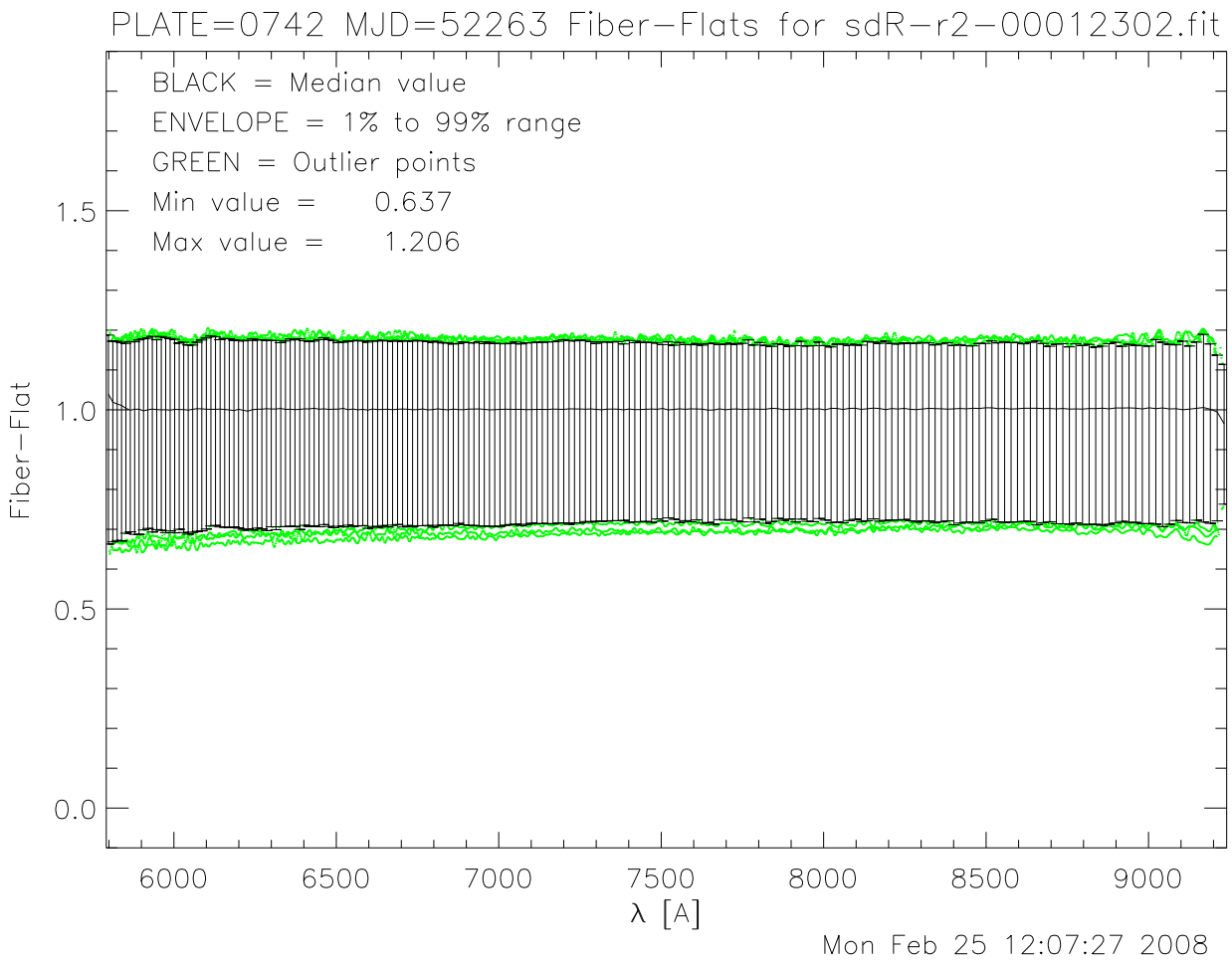

PLATE=0742 MJD=52263 sdR-r2-00012301.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

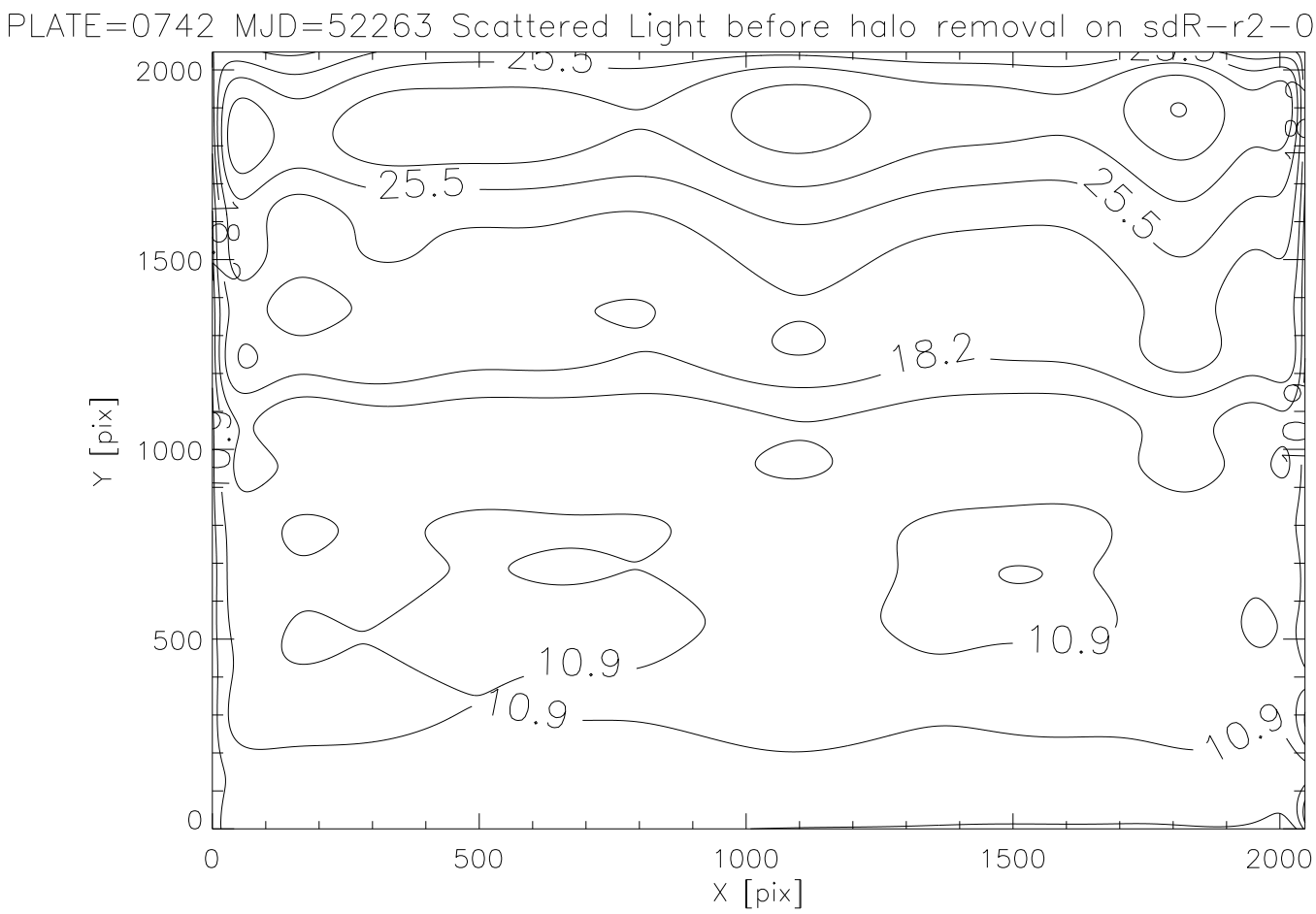

PLATE=0742 MJD=52263 sdR-r2-00012301.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

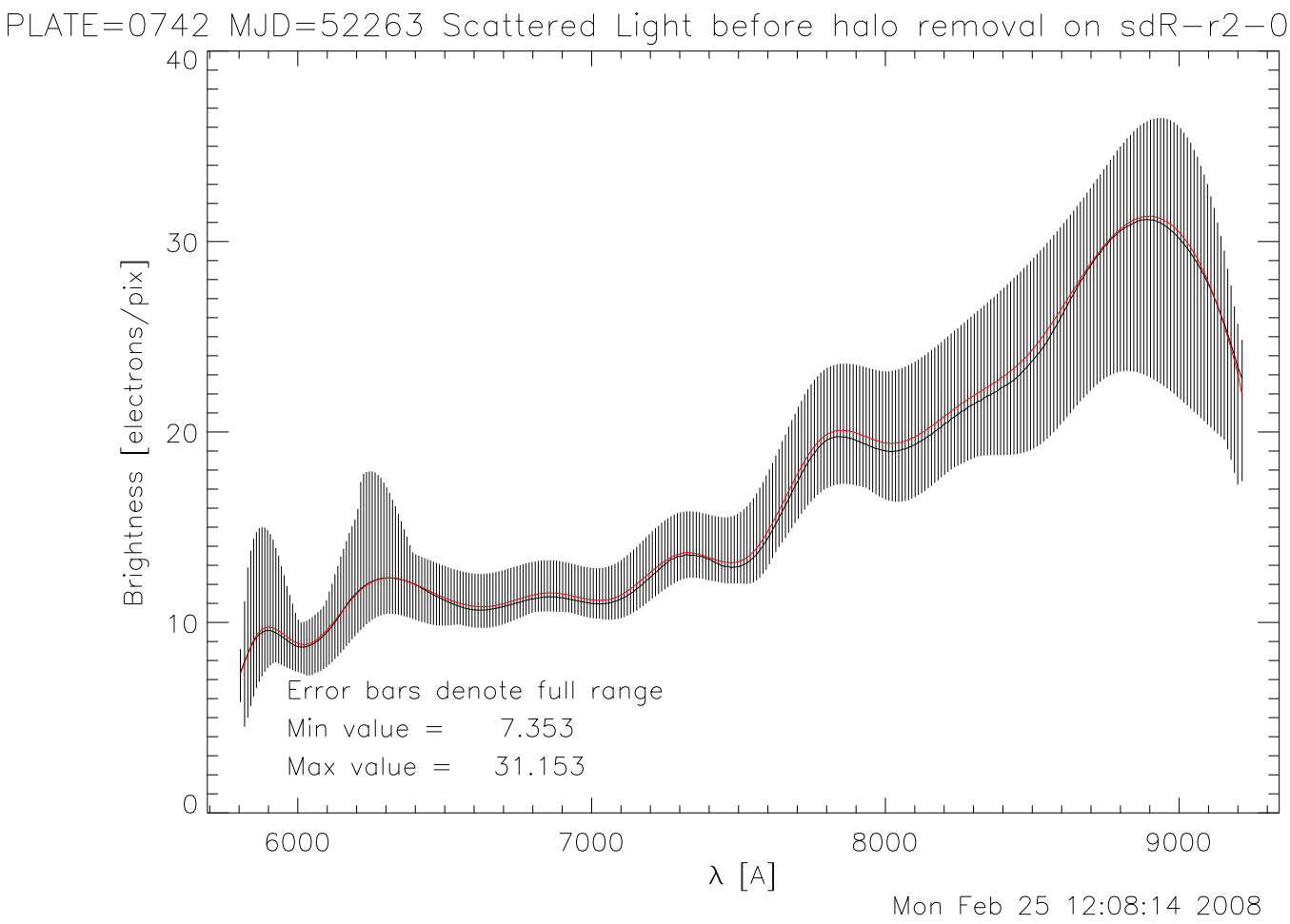

Number of sky fibers = 14
PLATE=0742 MJD=52263 sdR-r2-00012301.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

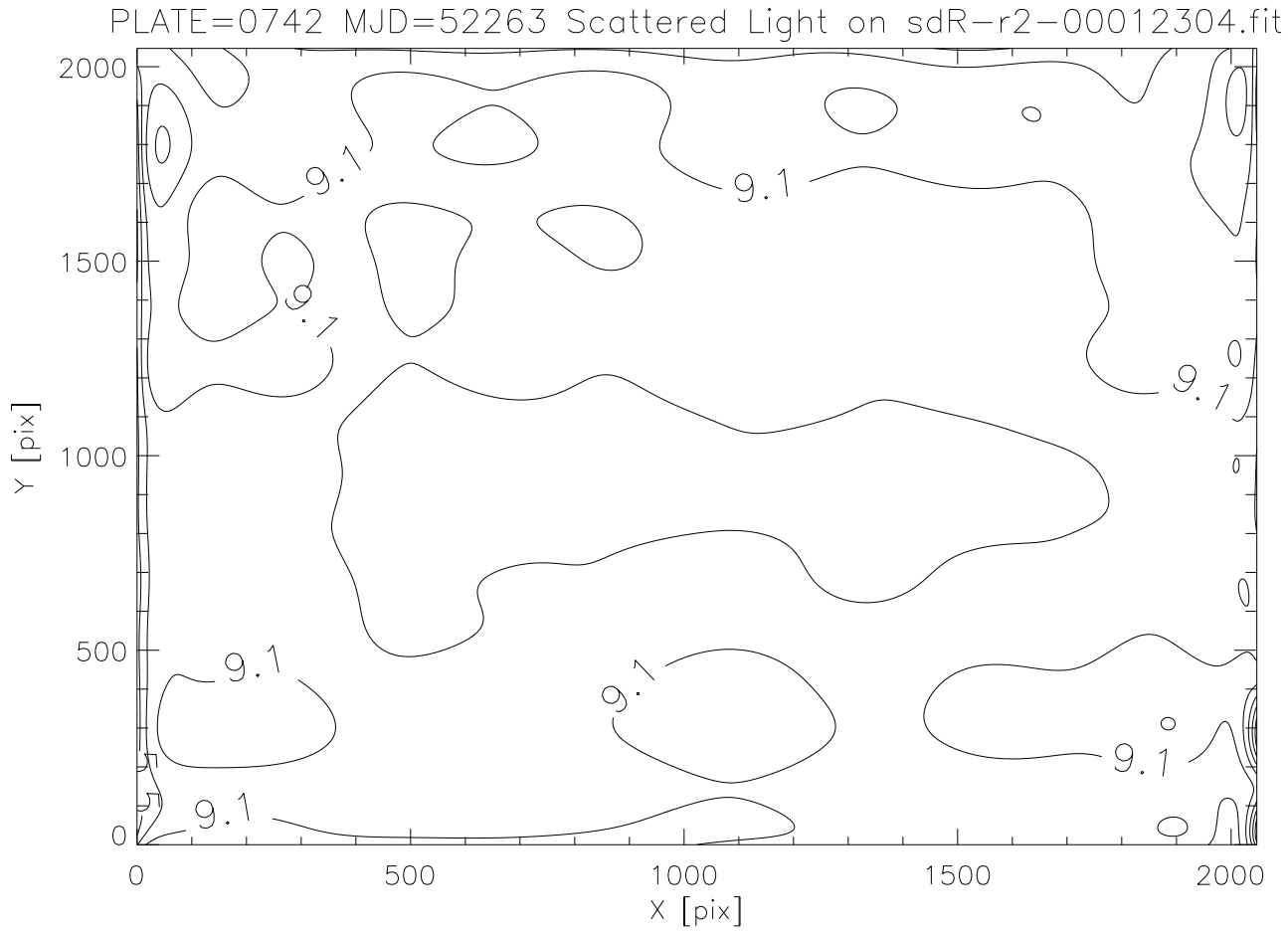

PLATE=0742 MJD=52263 sdR-r2-00012301.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.35 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

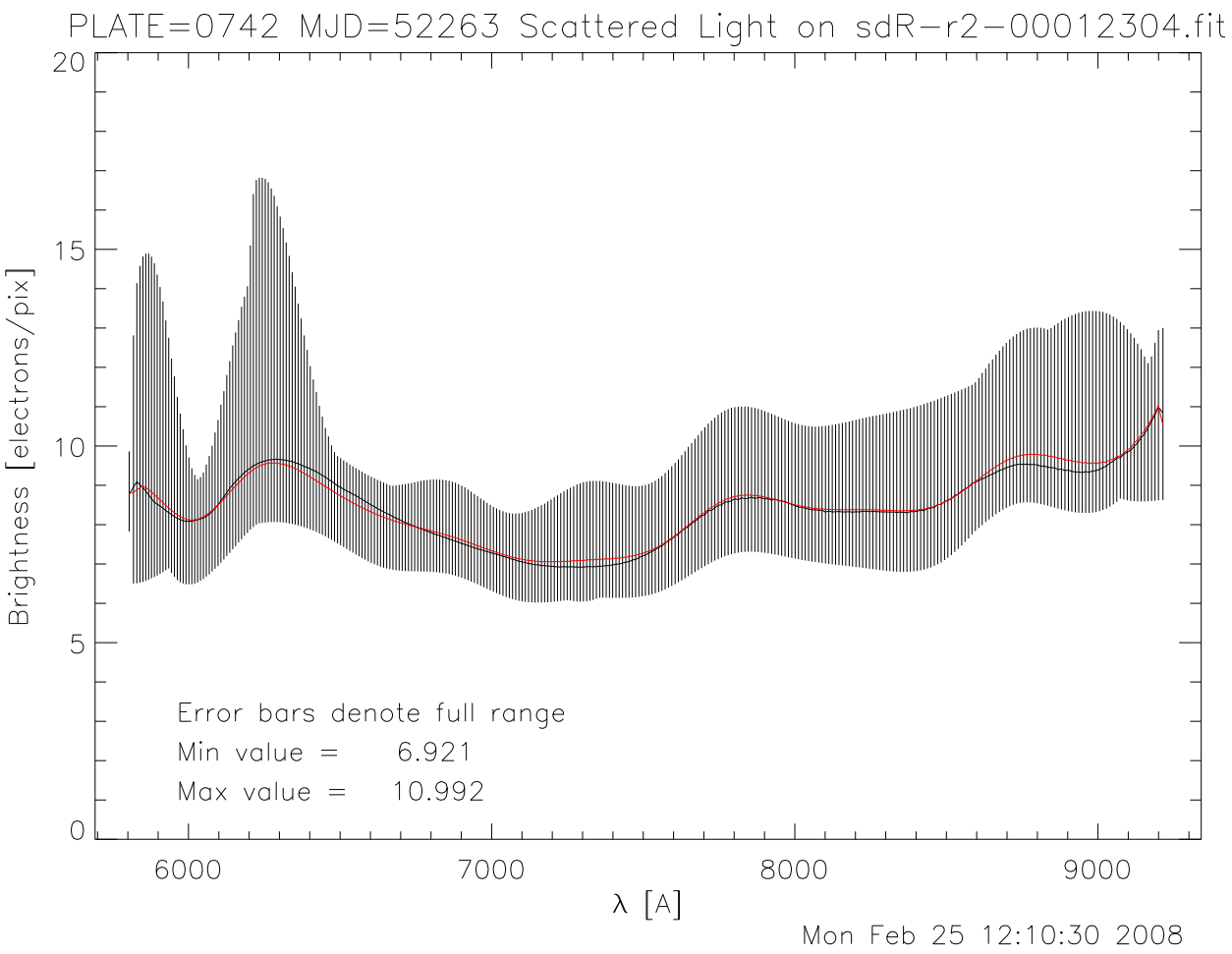

PLATE=0742 MJD=52263 sdR-r2-00012301.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.95 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

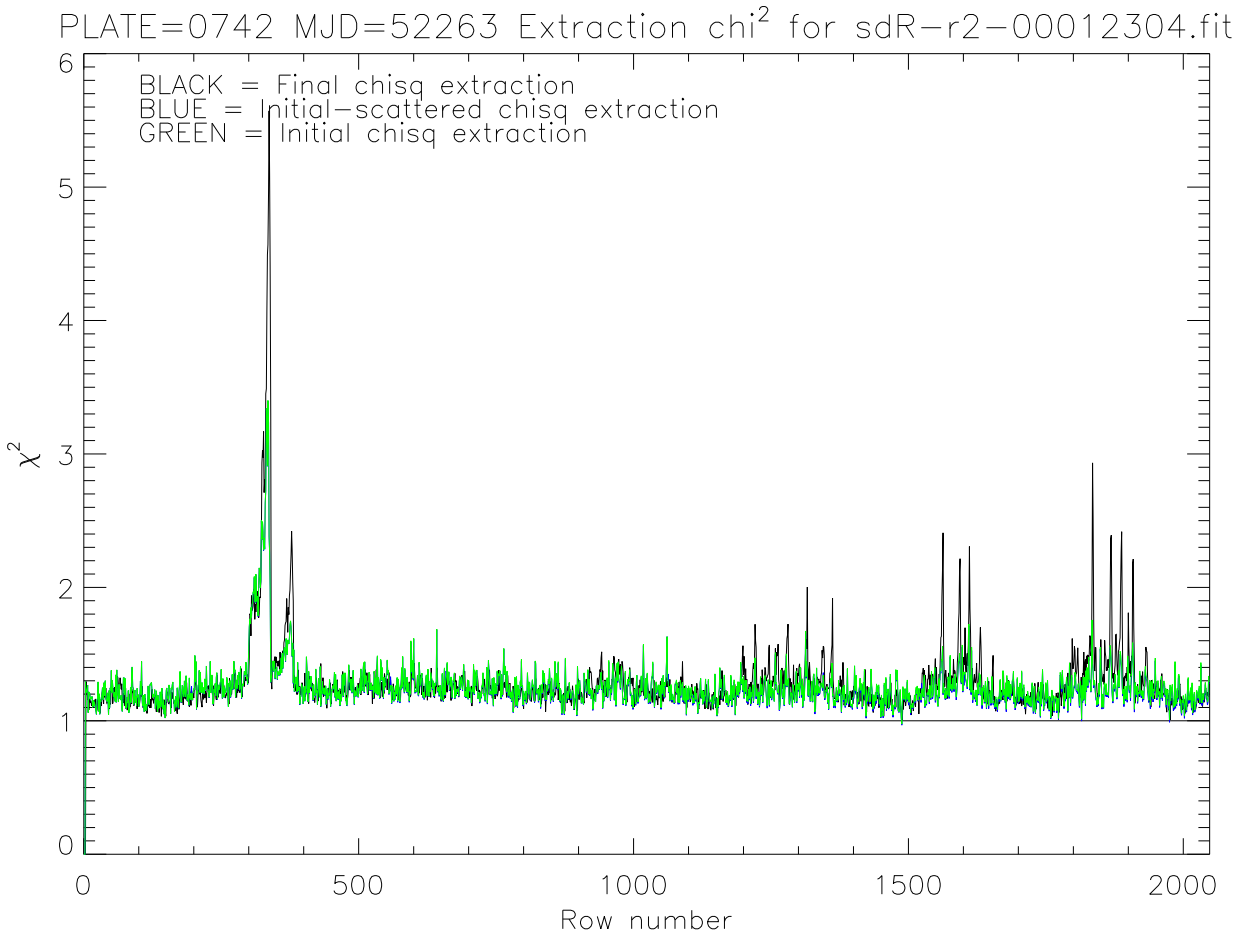

PLATE=0742 MJD=52263 Fiber-Flats for sdR-r2-00012302.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.637
Max value = 1.206
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 25 12:07:27 2008

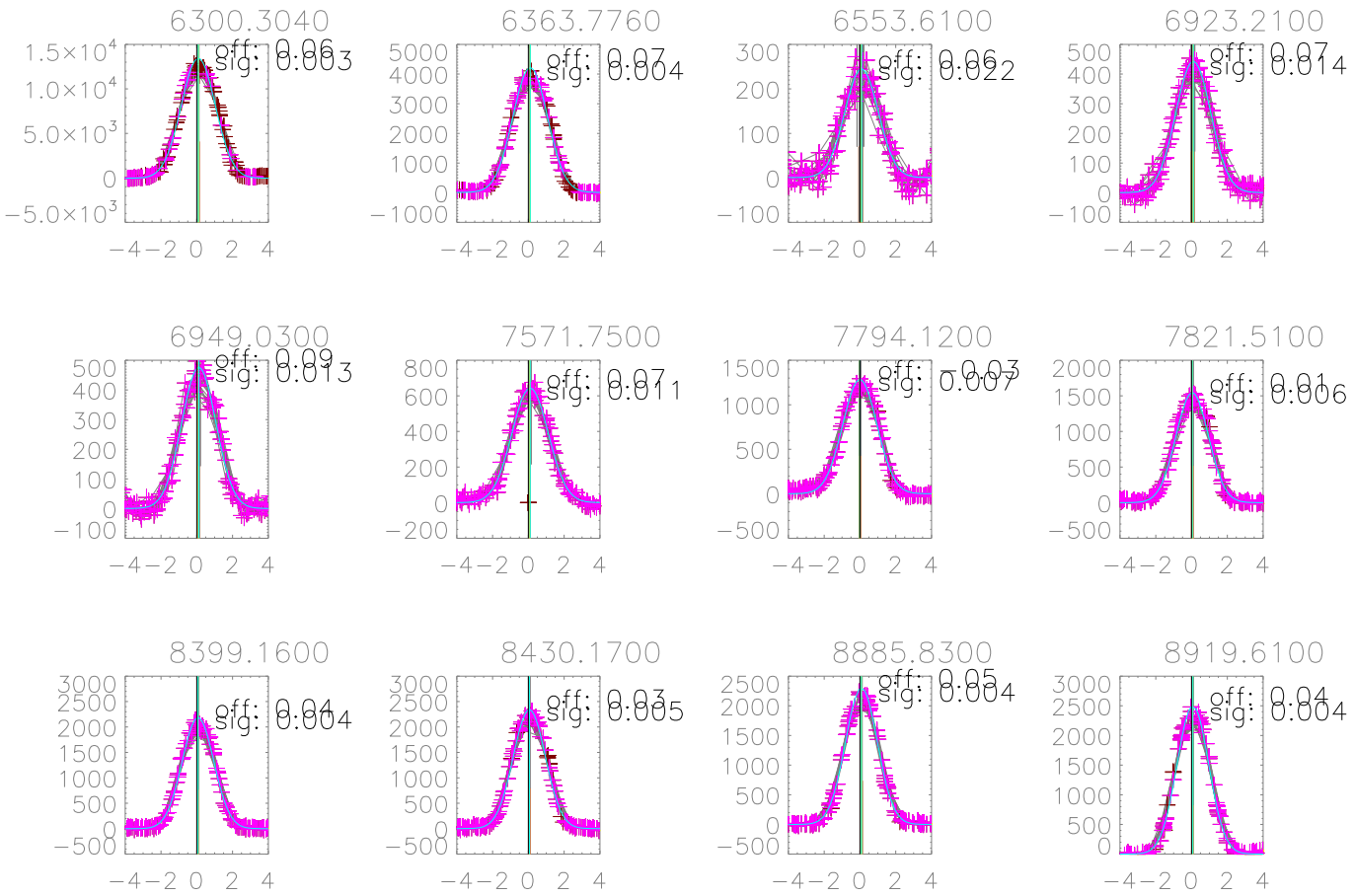

PLATE=0742 MJD=52263 Scattered Light before halo removal on sdR-r2-00012304.fi
25.5
25.5
25.5
18.2
18.2
10.9
10.9
10.9
10.9
0
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

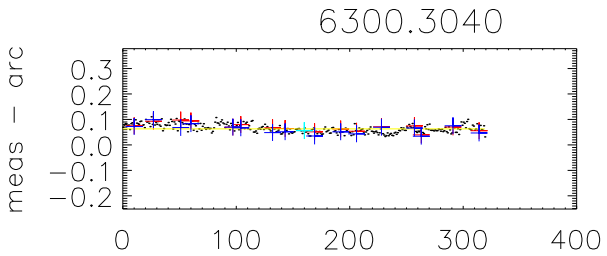

PLATE=0742 MJD=52263 Scattered Light before halo removal on sdR-r2-00012304.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.353
Max value = 31.153
Mon Feb 25 12:08:14 2008

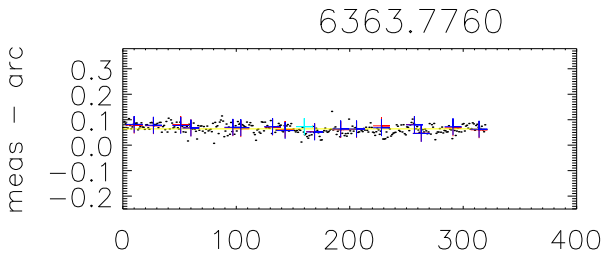

PLATE=0742 MJD=52263 Scattered Light on sdR-r2-00012304.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
9.1
9.1
9.1
9.1
9.1
9.1
0
0
0
0
0

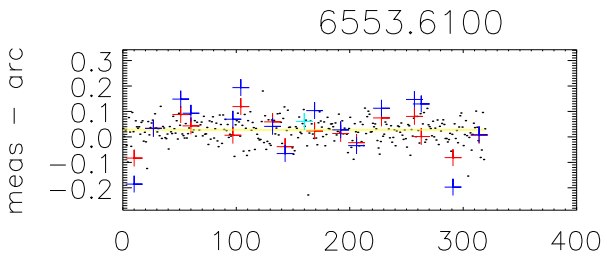

PLATE=0742 MJD=52263 Scattered Light on sdR-r2-00012304.fit
Brightness [electrons/pix]
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 6.921
Max value = 10.992
Mon Feb 25 12:10:30 2008

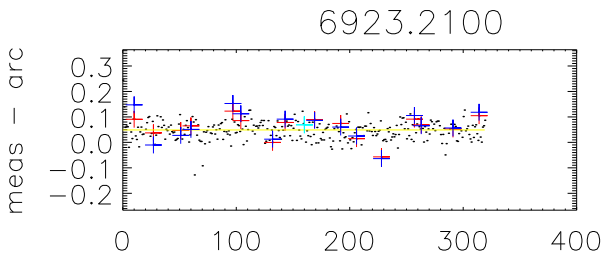

PLATE=0742 MJD=52263 Extraction chi^2 for sdR-r2-00012304.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

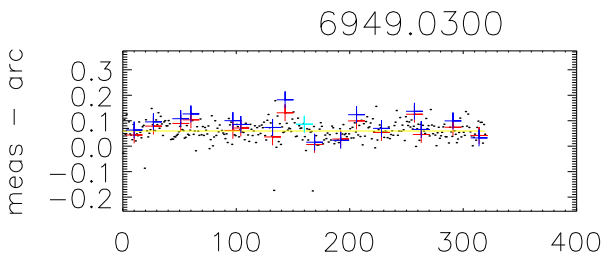

6300.3040
off: 0.06
sig: 0.003
6363.7760
off: 0.07
sig: 0.004
6553.6100
off: 0.06
sig: 0.022
6923.2100
off: 0.07
sig: 0.014
6949.0300
off: 0.09
sig: 0.013
7571.7500
off: 0.07
sig: 0.011
7794.1200
off: -0.03
sig: 0.007
7821.5100
off: 0.01
sig: 0.006
8399.1600
off: 0.04
sig: 0.004
8430.1700
off: 0.03
sig: 0.005
8885.8300
off: 0.05
sig: 0.004
8919.6100
off: 0.04
sig: 0.004

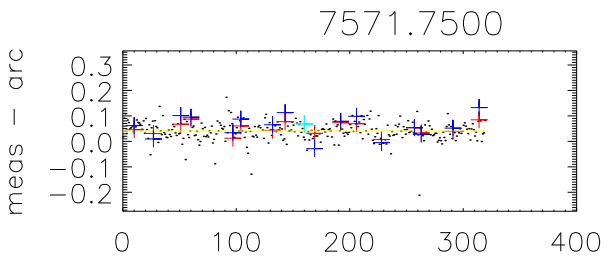

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

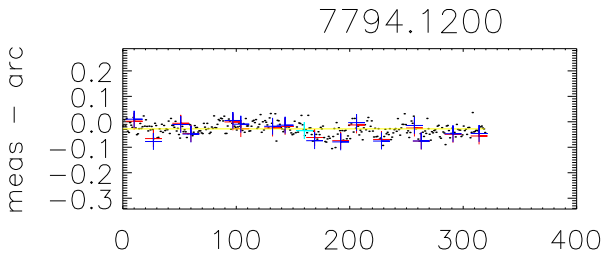

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

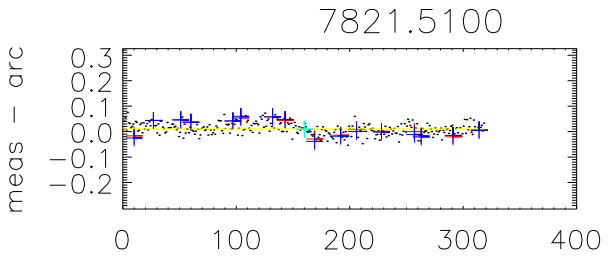

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

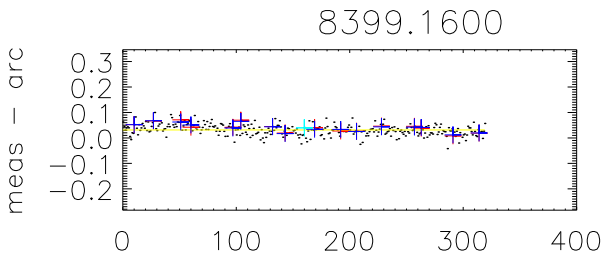

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

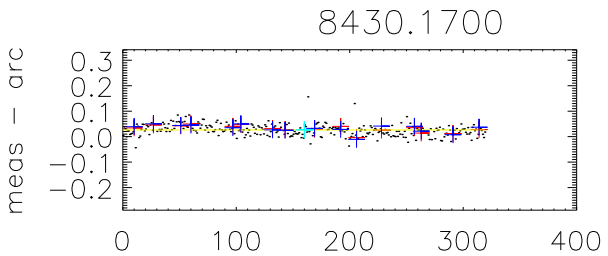

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

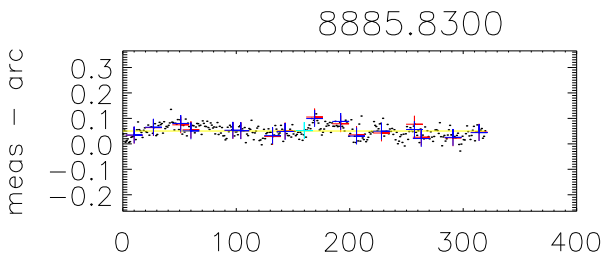

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

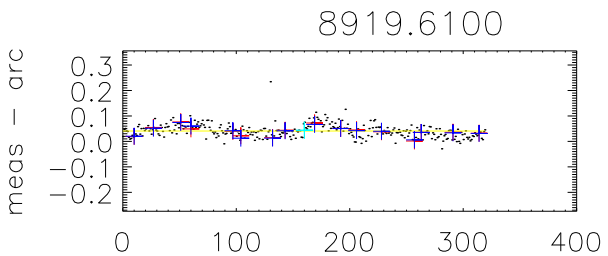

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

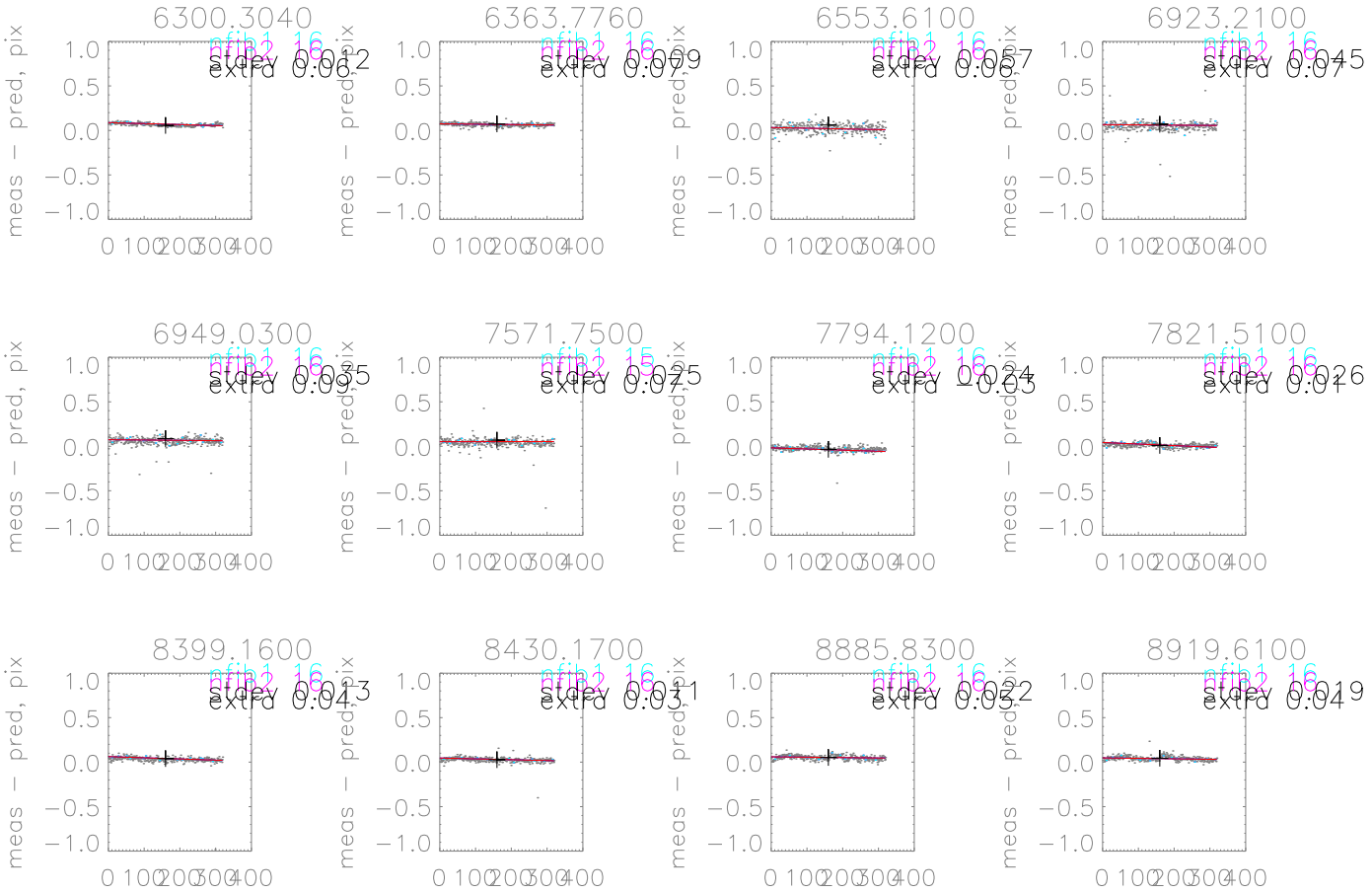

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

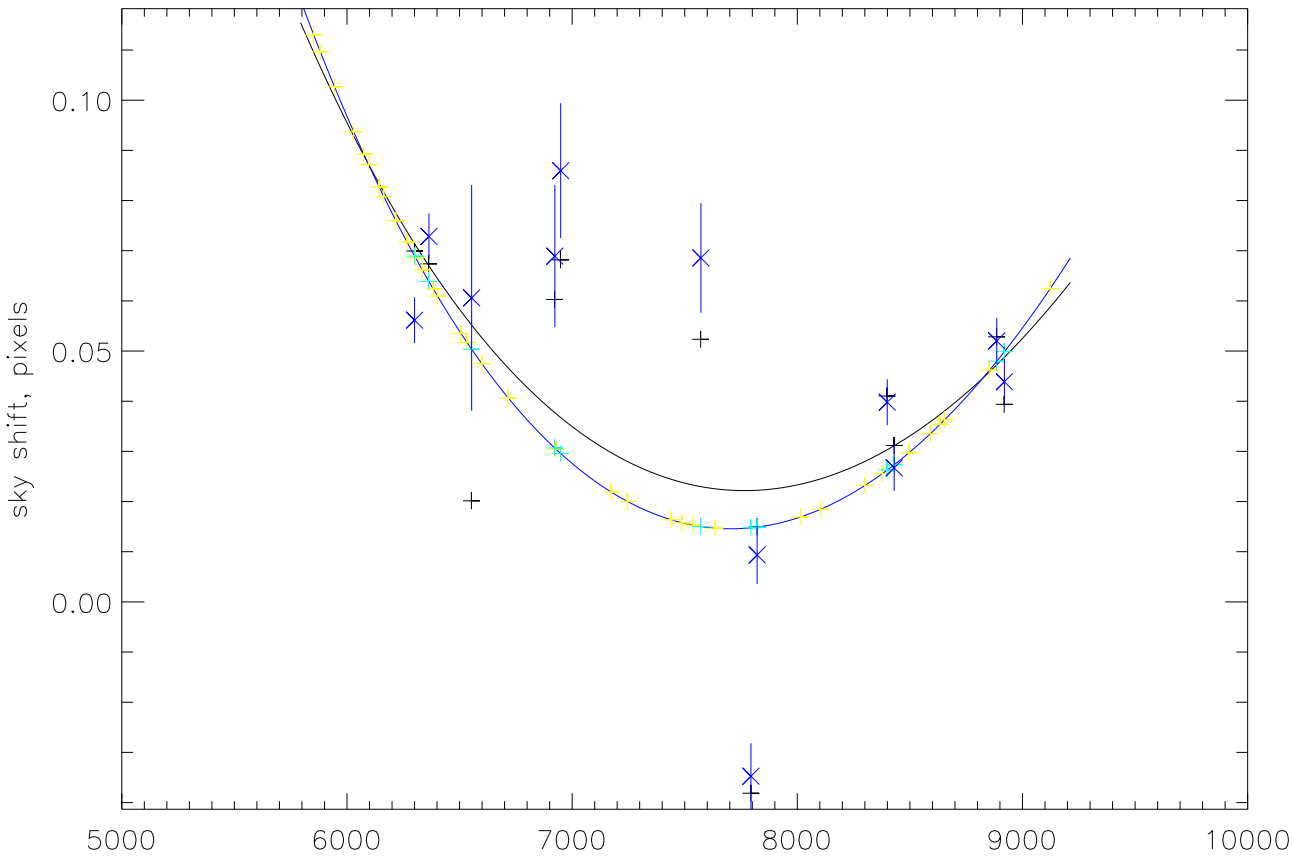

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

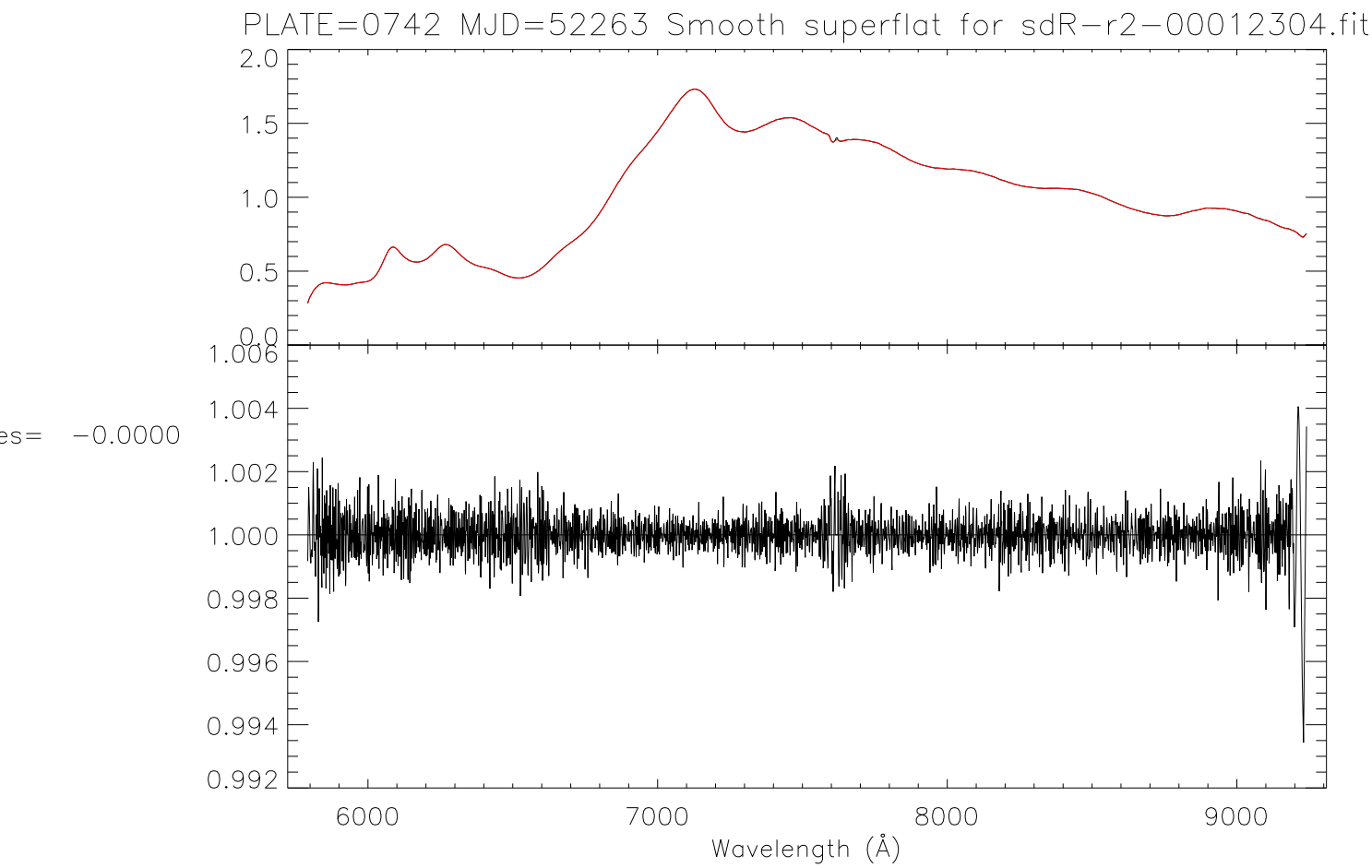

8430.1700
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

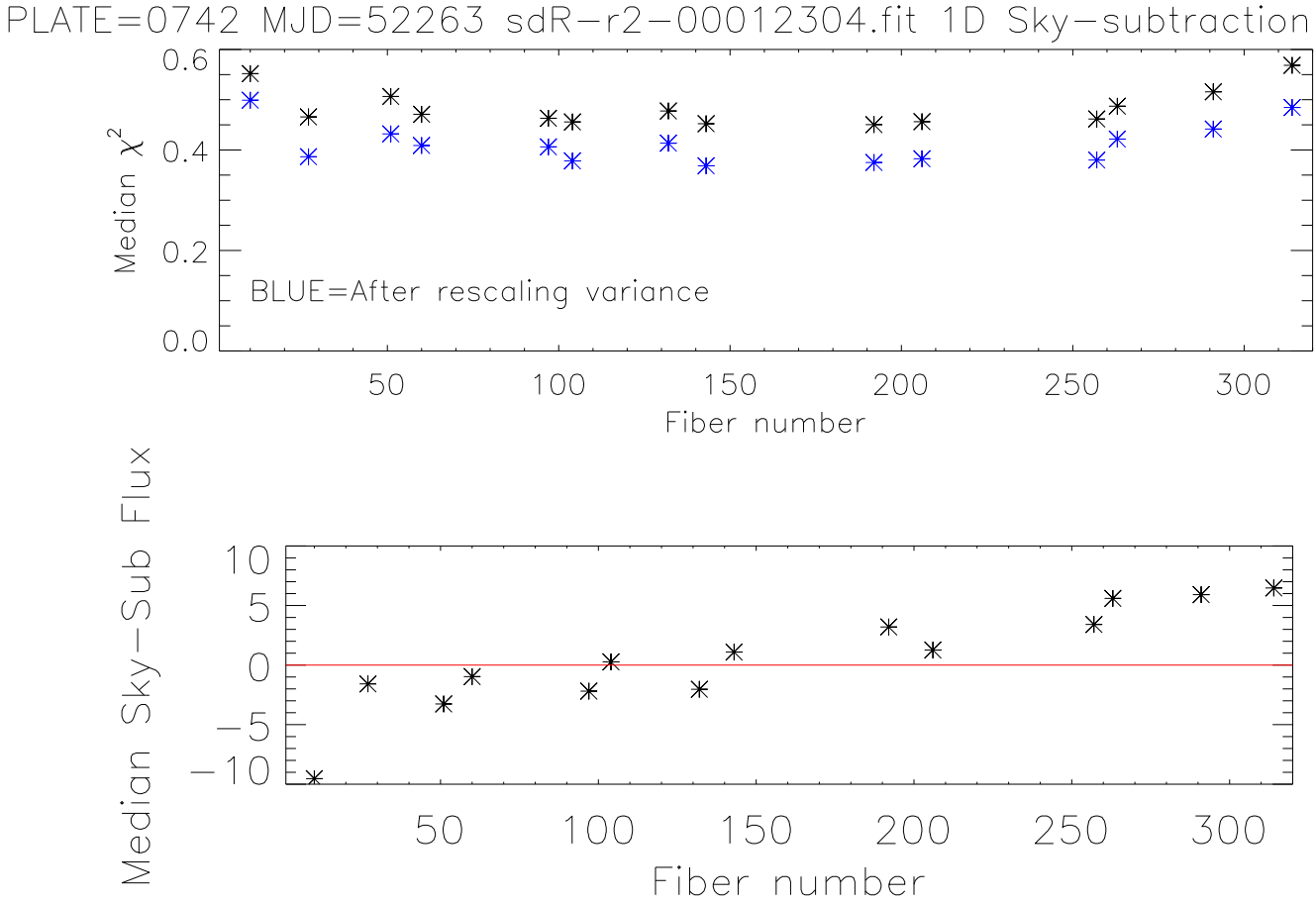

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

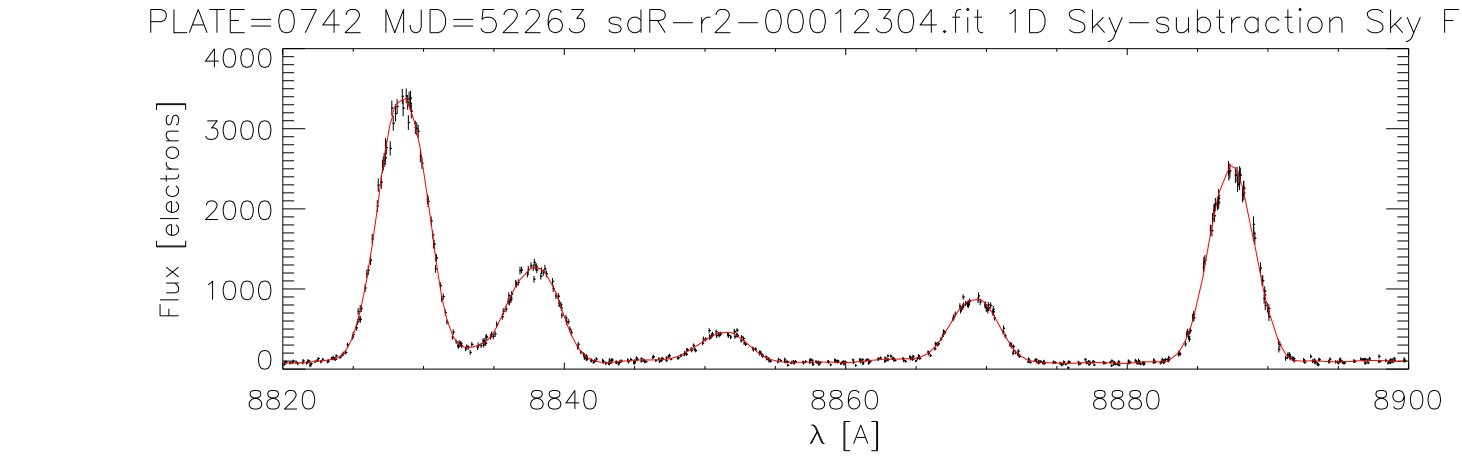

6300.3040
stdev 0.012
extra 0.06
6363.7760
stdev 0.009
extra 0.07
6553.6100
stdev 0.007
extra 0.06
6923.2100
stdev 0.015
extra 0.07
6949.0300
stdev 0.035
extra 0.09
7571.7500
stdev 0.025
extra 0.07
7794.1200
stdev 0.024
extra −0.03
7821.5100
stdev 0.026
extra 0.01
8399.1600
stdev 0.013
extra 0.04
8430.1700
stdev 0.011
extra 0.03
8885.8300
stdev 0.022
extra 0.03
8919.6100
stdev 0.019
extra 0.04
meas − pred, pix
mfb2 16
mfb1 16
mfb2 15

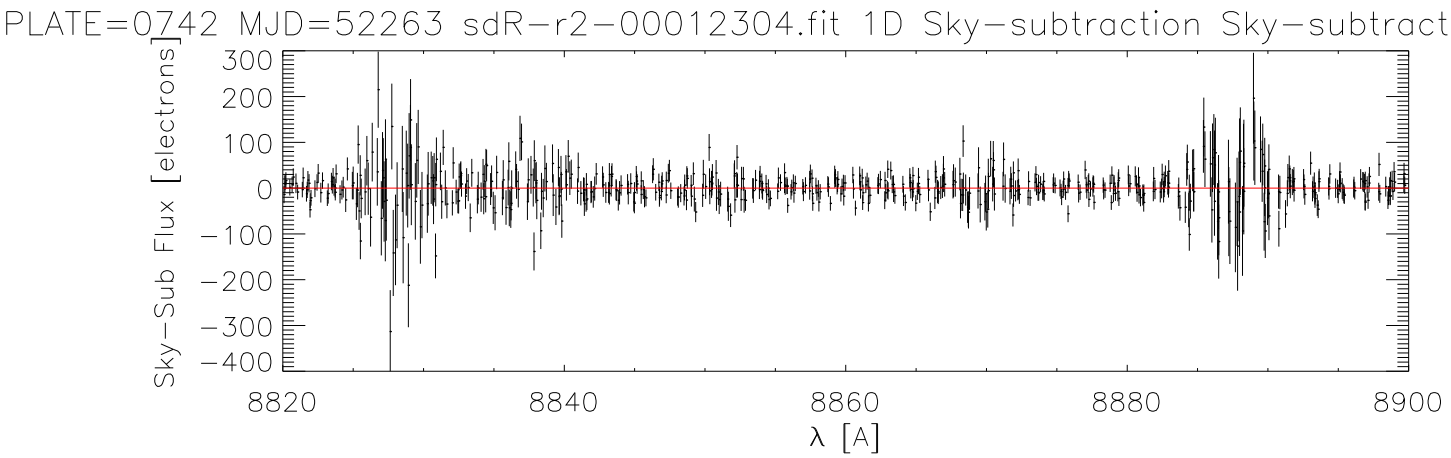

0.10
0.05
0.00
sky shift, pixels
5000
6000
7000
8000
9000
10000

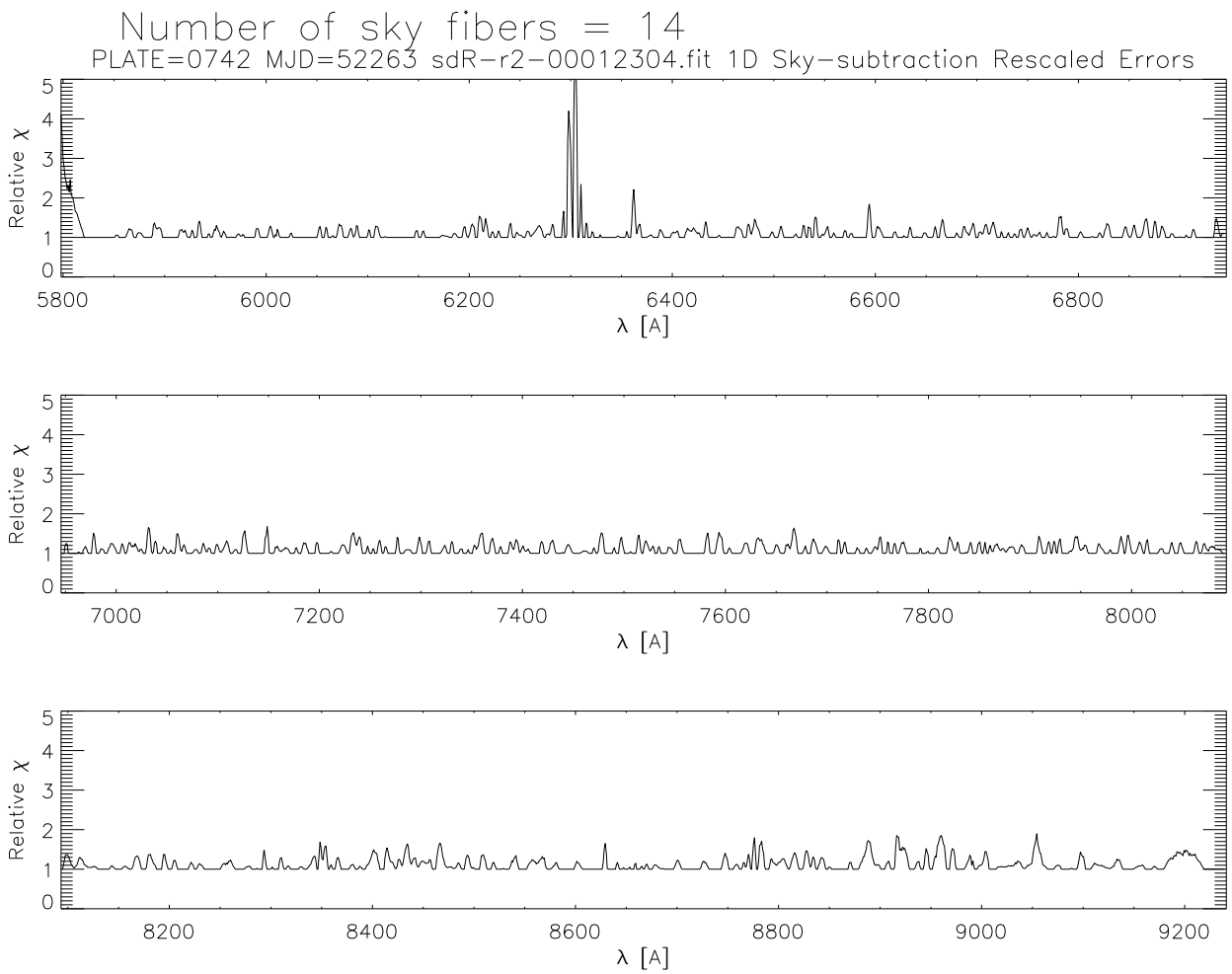

PLATE=0742 MJD=52263 Smooth superflat for sdR-r2-00012304.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
6000
7000
8000
9000
Wavelength (Å)

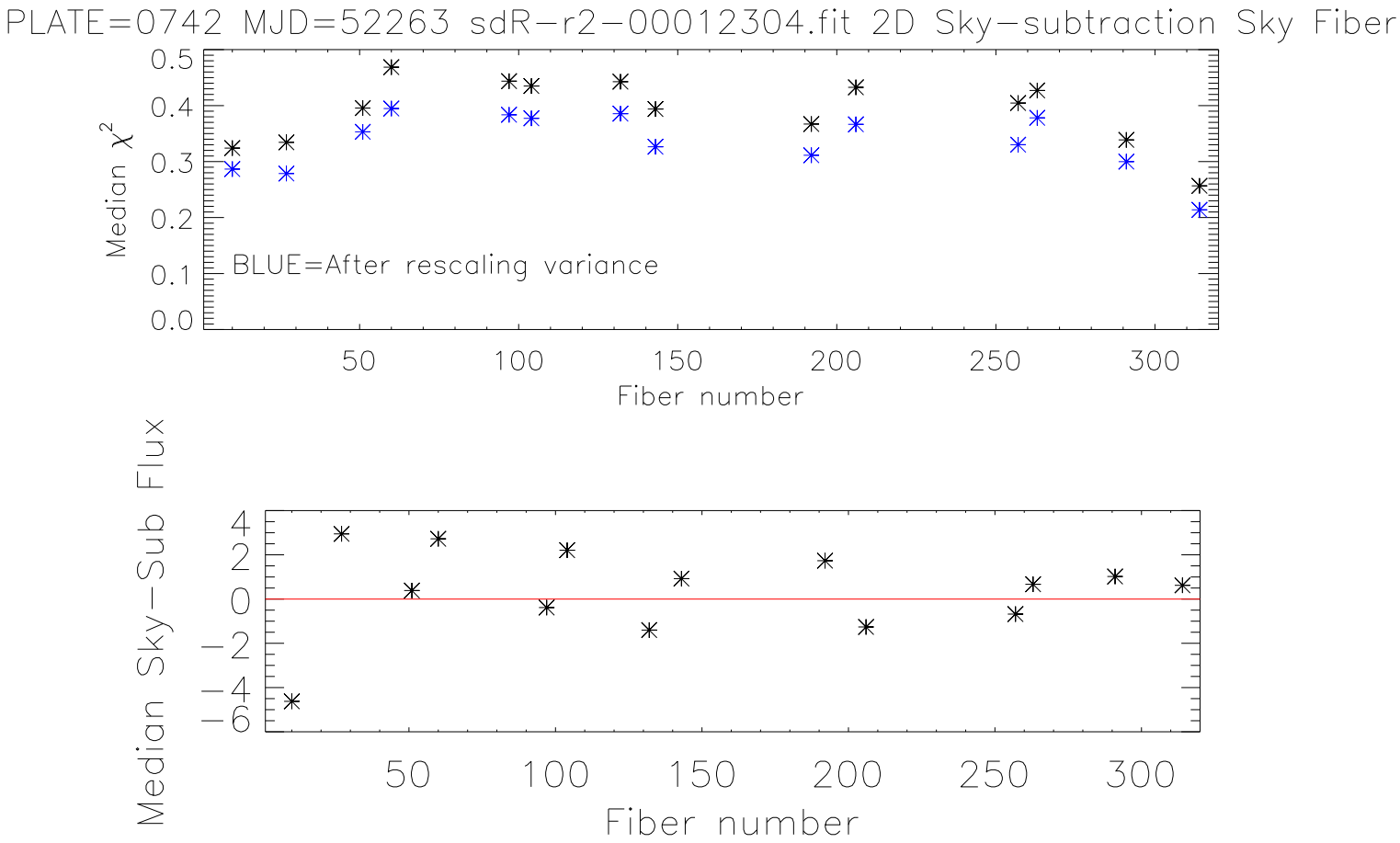
es= −0.0000

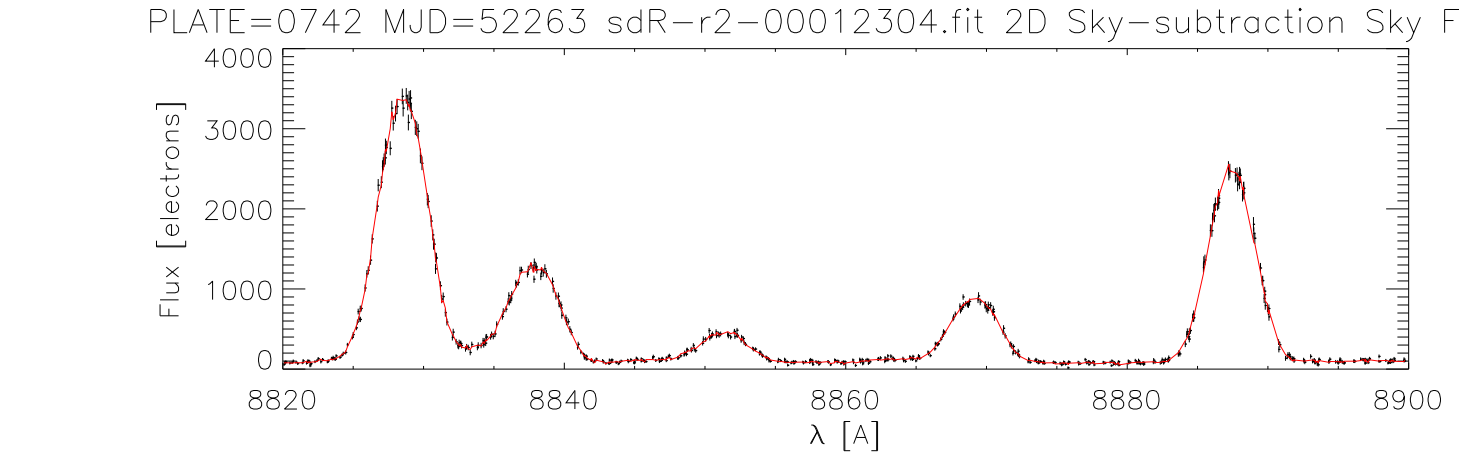

PLATE=0742 MJD=52263 sdR-r2-00012304.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
50
100
150
200
250
300
Fiber number

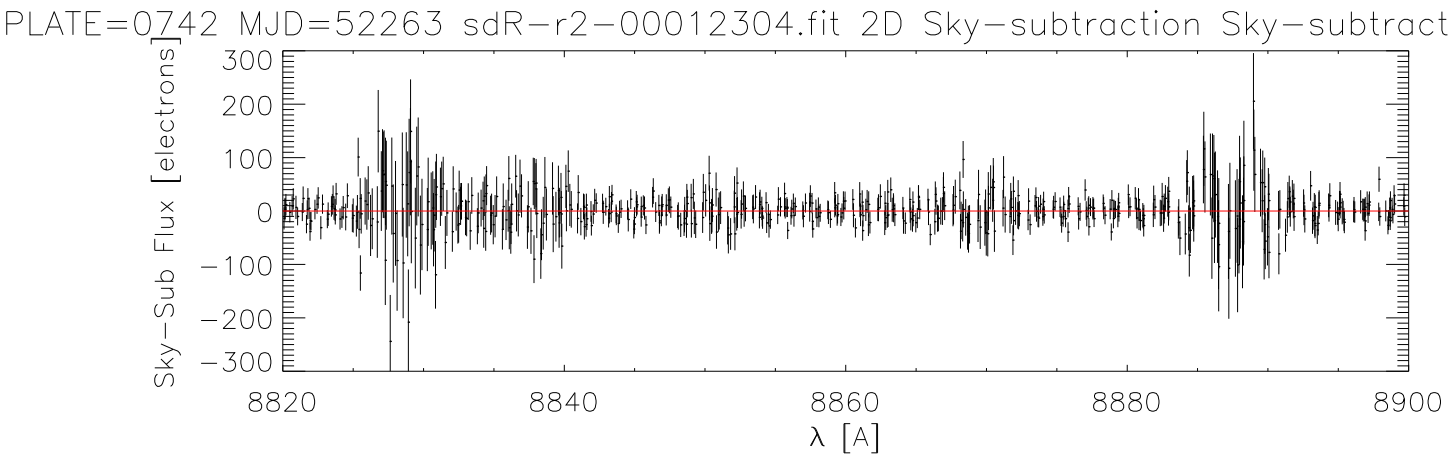

PLATE=0742 MJD=52263 sdR-r2-00012304.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

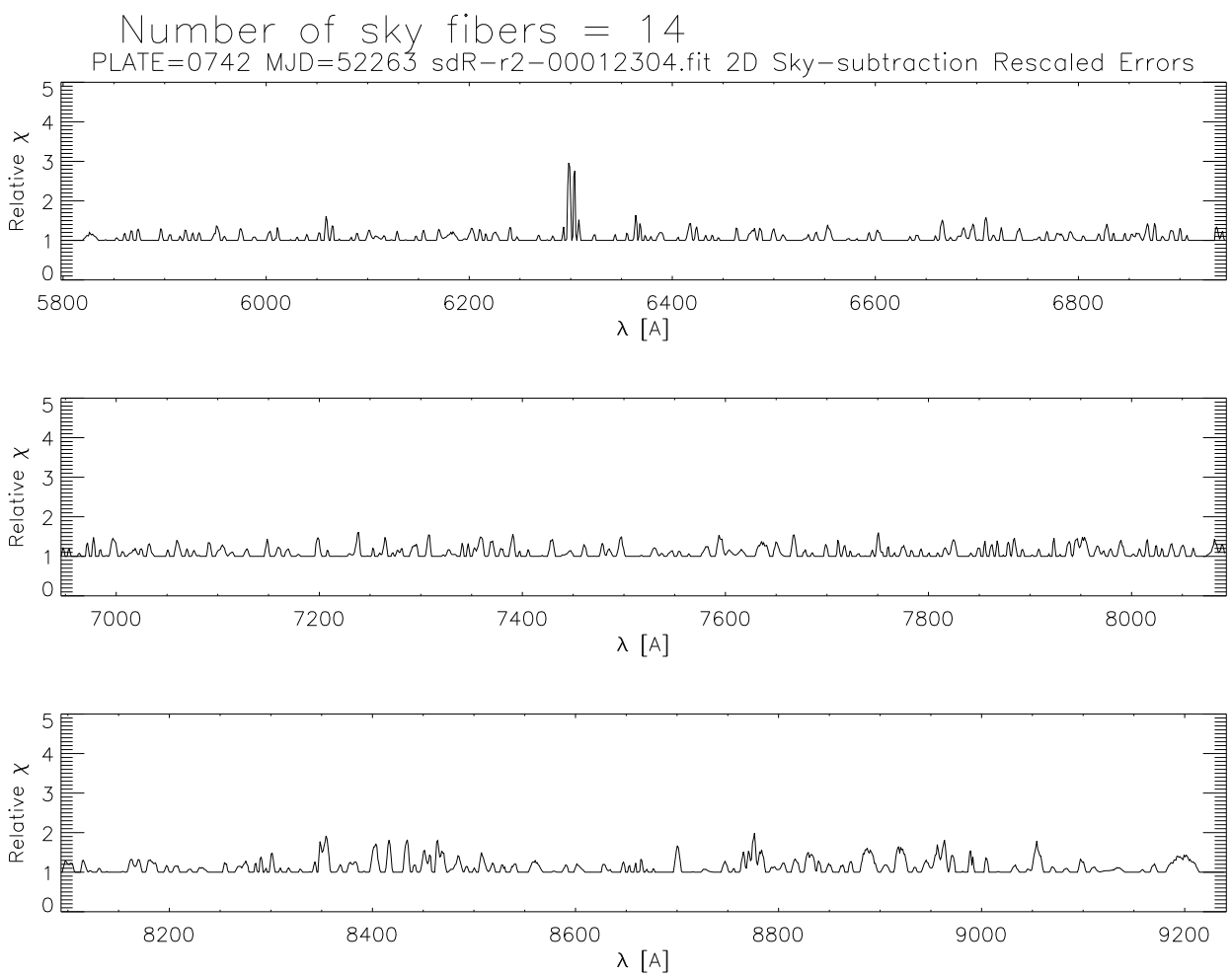

PLATE=0742 MJD=52263 sdR-r2-00012304.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
-400
8820
8840
8860
8880
8900
λ [A]

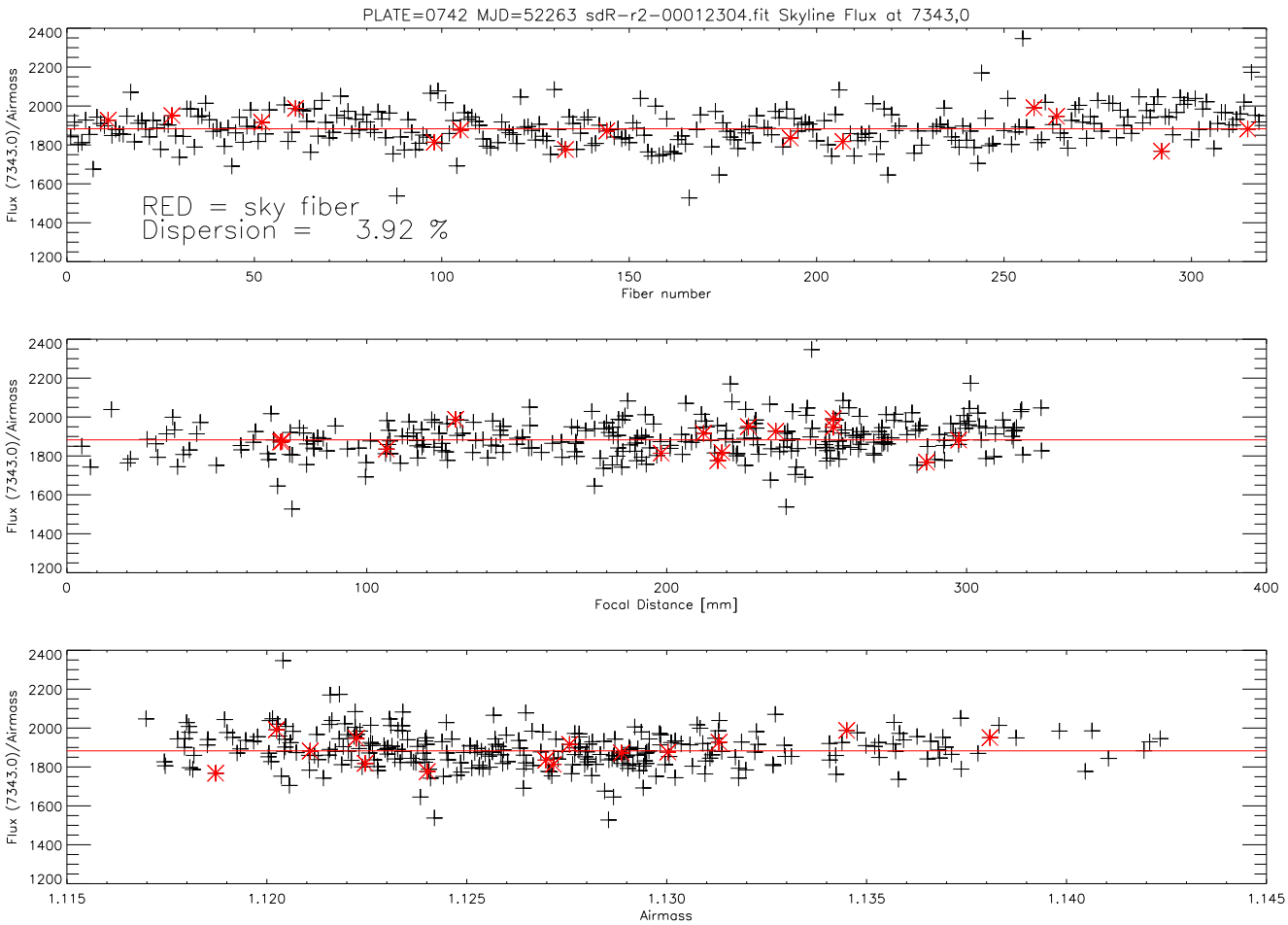

Number of sky fibers = 14
PLATE=0742 MJD=52263 sdR-r2-00012304.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

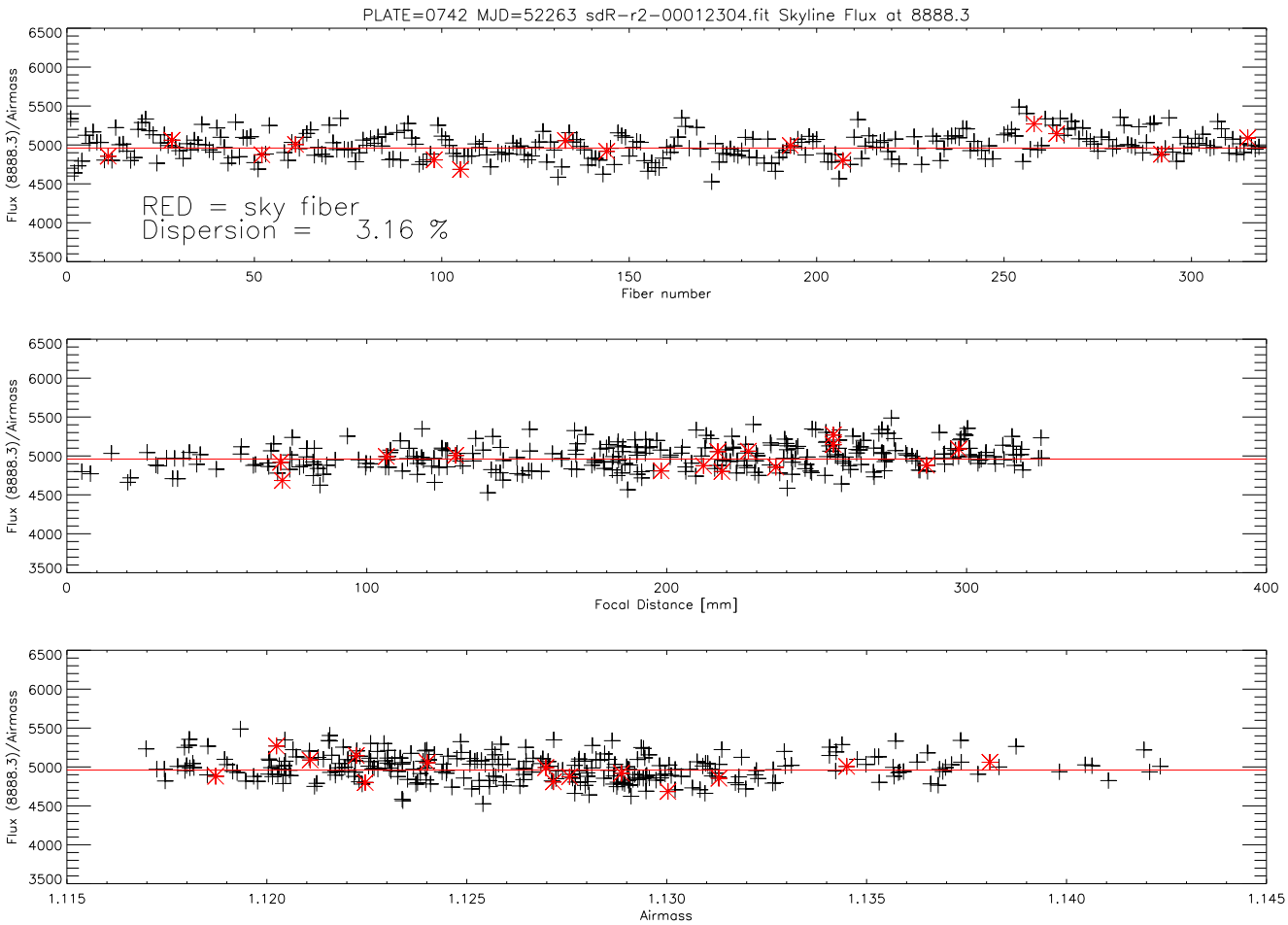

PLATE=0742 MJD=52263 sdR-r2-00012304.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
50
100
150
200
250
300
Fiber number

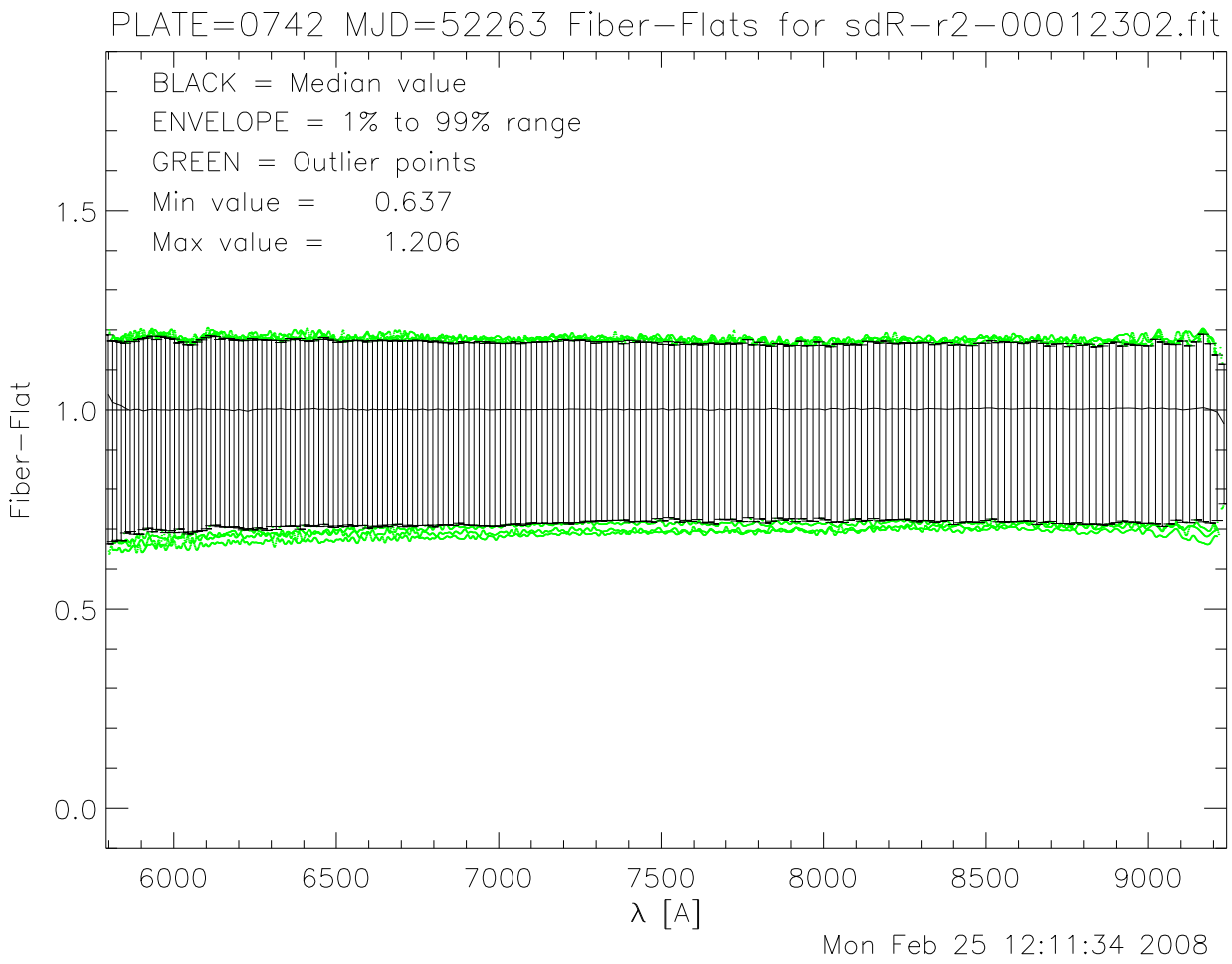

PLATE=0742 MJD=52263 sdR-r2-00012304.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

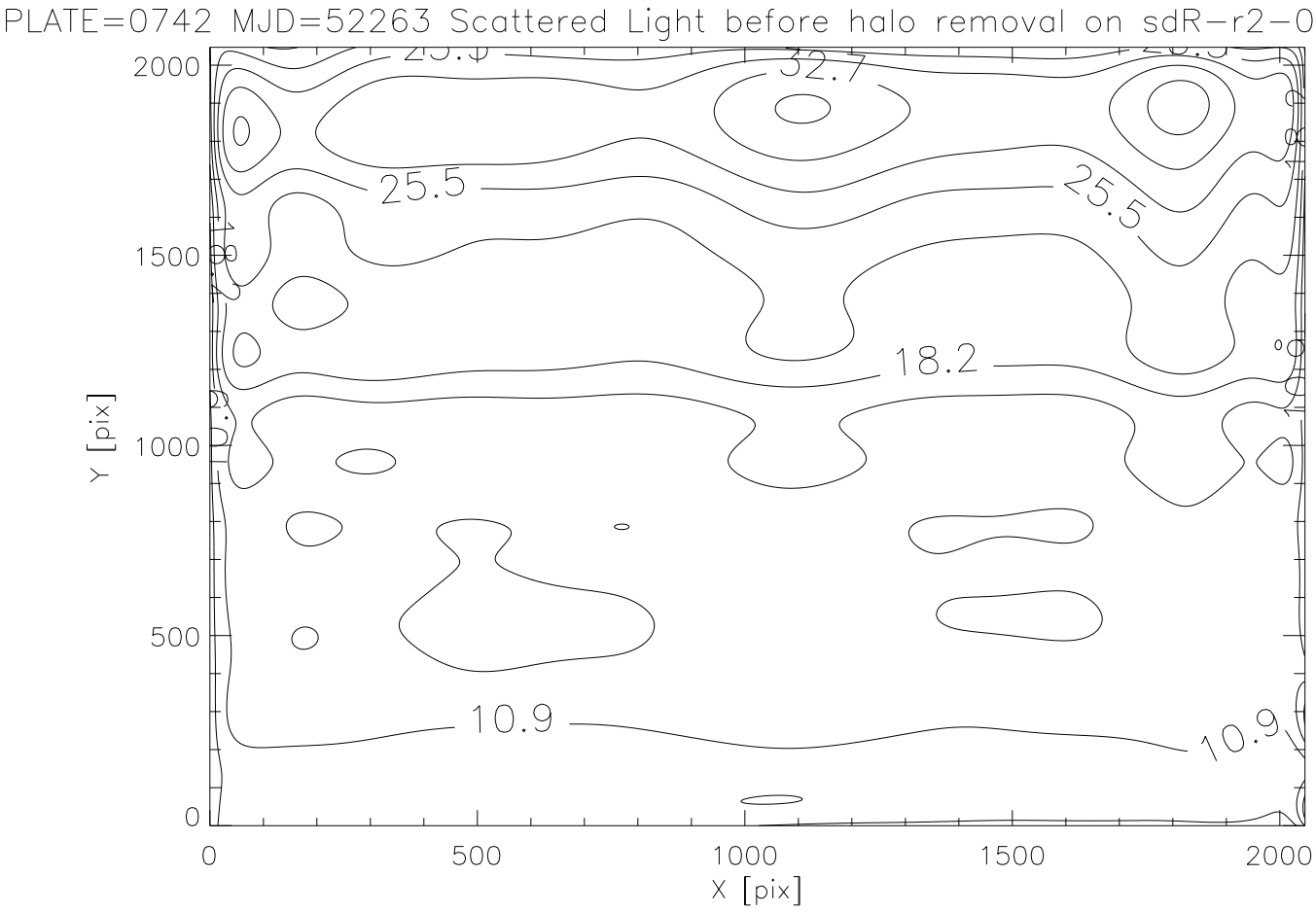

PLATE=0742 MJD=52263 sdR-r2-00012304.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

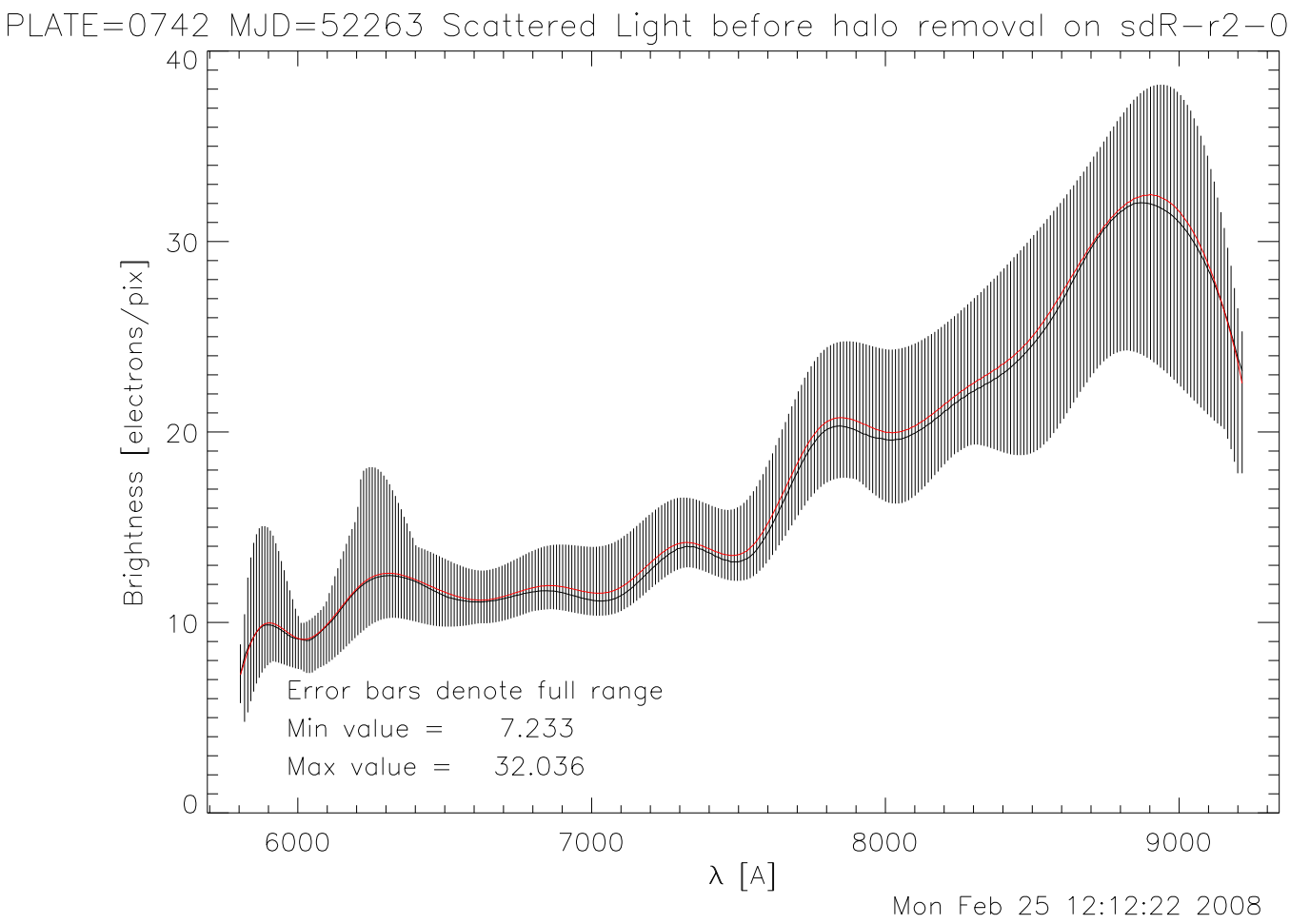

Number of sky fibers = 14
PLATE=0742 MJD=52263 sdR-r2-00012304.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

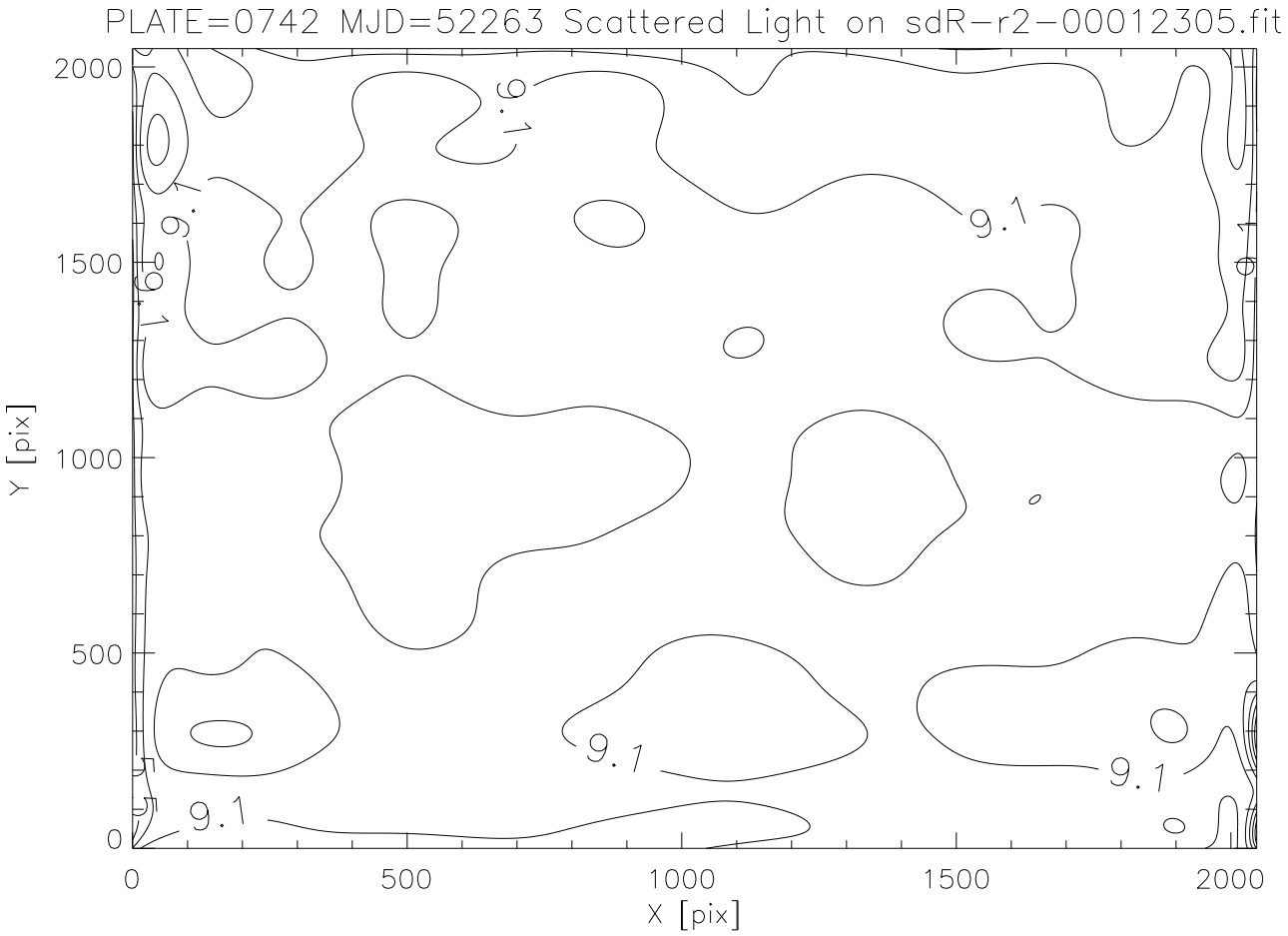

PLATE=0742 MJD=52263 sdR-r2-00012304.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.92 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

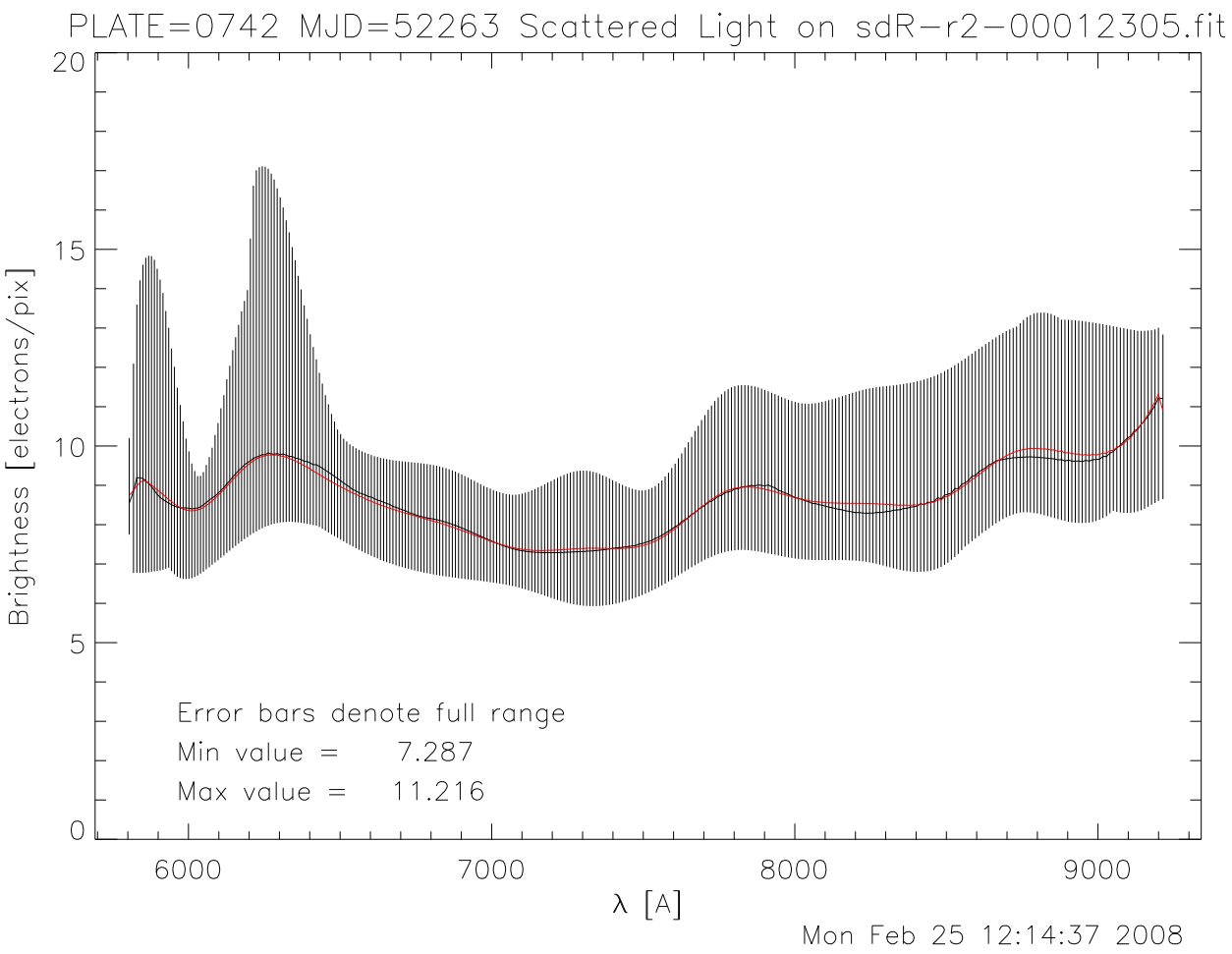

PLATE=0742 MJD=52263 sdR-r2-00012304.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.16 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

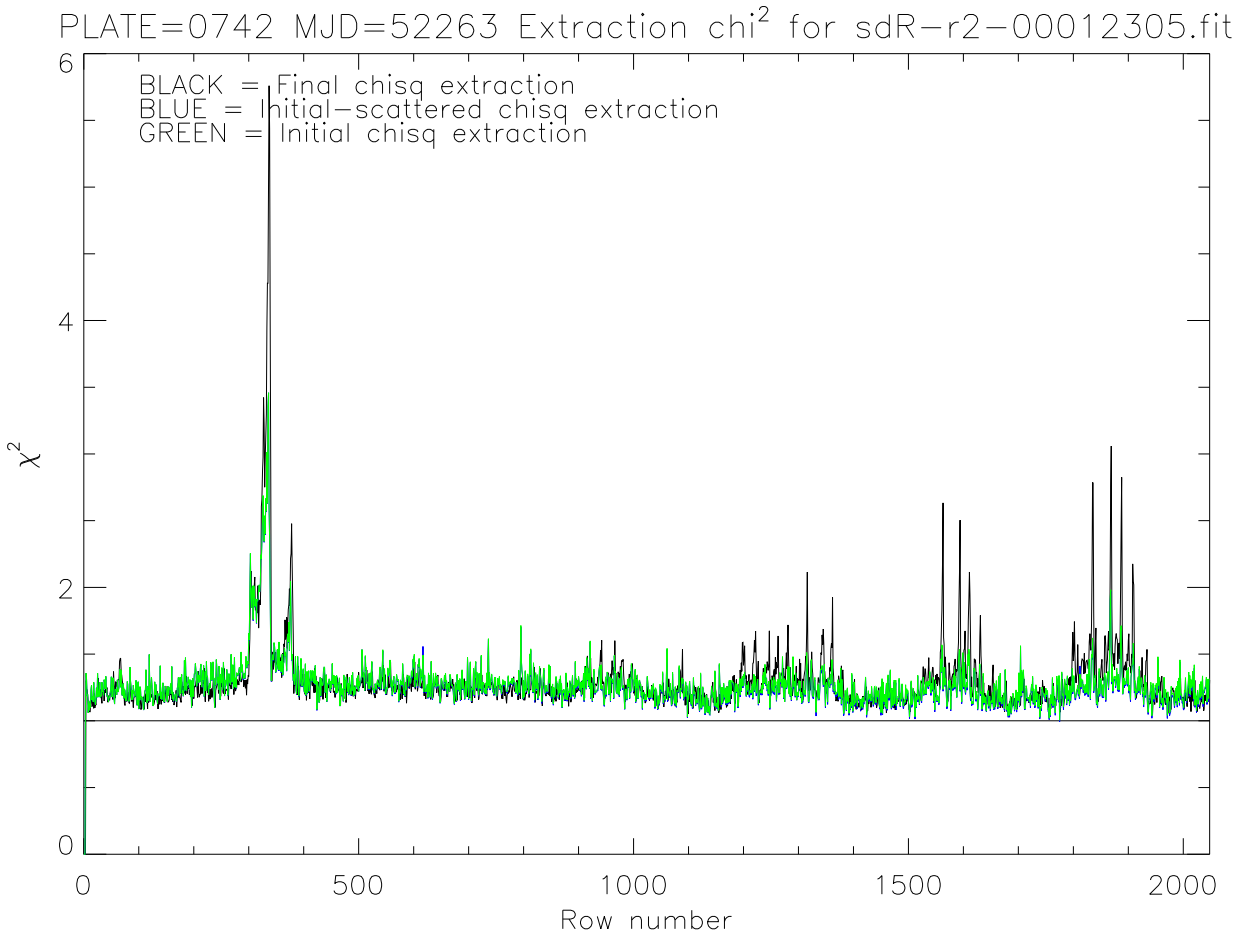

PLATE=0742 MJD=52263 Fiber-Flats for sdR-r2-00012302.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.637
Max value = 1.206
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 25 12:11:34 2008

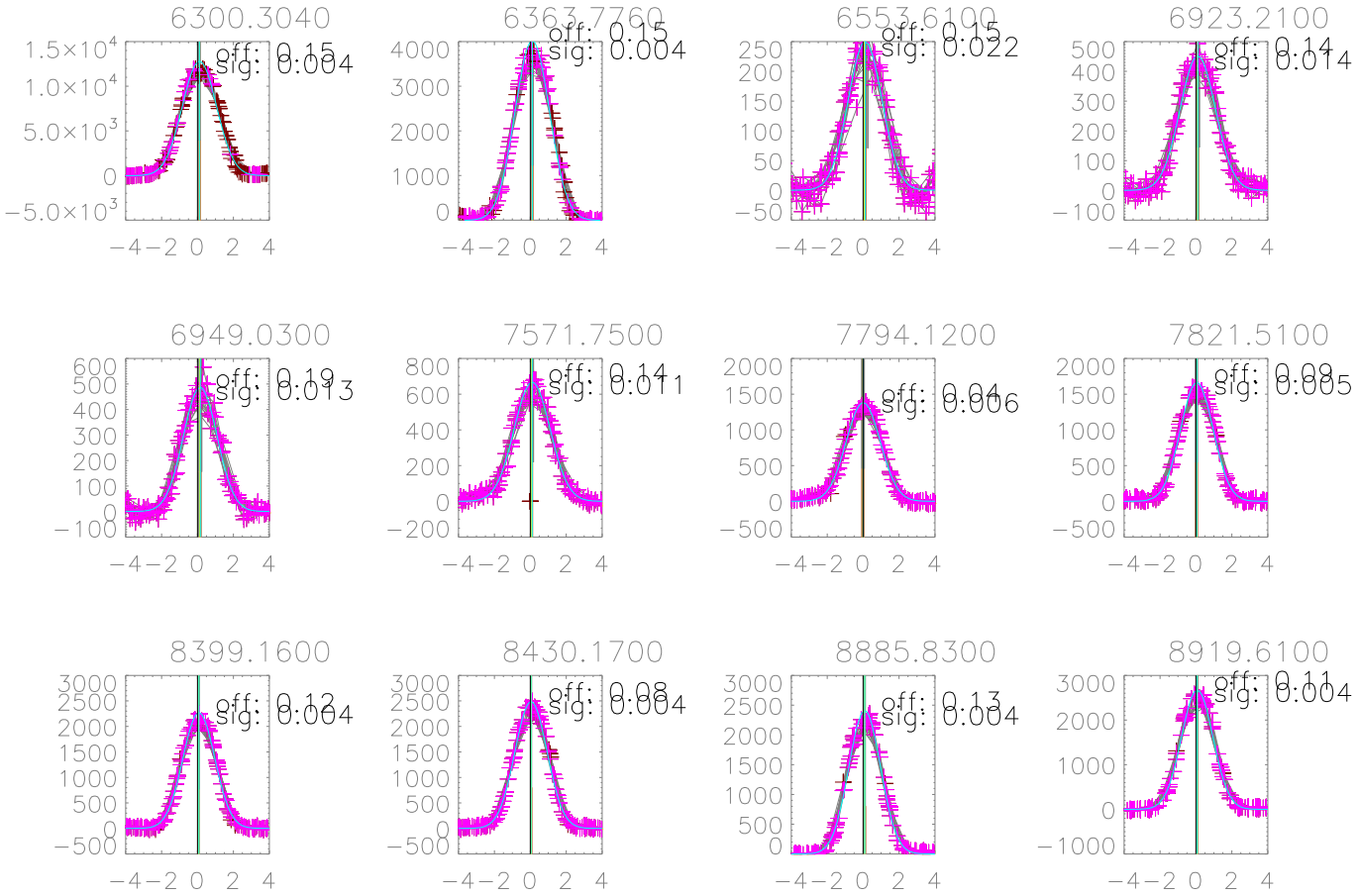

PLATE=0742 MJD=52263 Scattered Light before halo removal on sdR−r2−00012305.fi
32.7
25.5
25.5
18.2
10.9
10.9
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

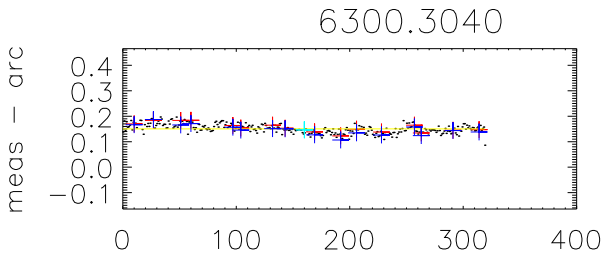

PLATE=0742 MJD=52263 Scattered Light before halo removal on sdR-r2-00012305.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.233
Max value = 32.036
Mon Feb 25 12:12:22 2008

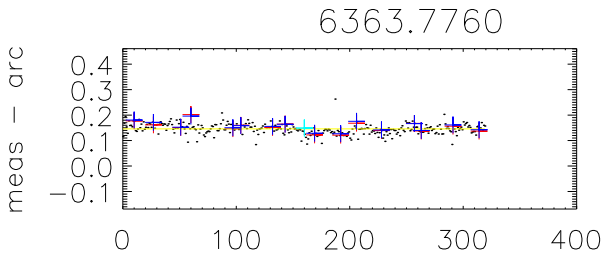

PLATE=0742 MJD=52263 Scattered Light on sdR-r2-00012305.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
9.1
9.1
9.1
9.1
9.1
9.1

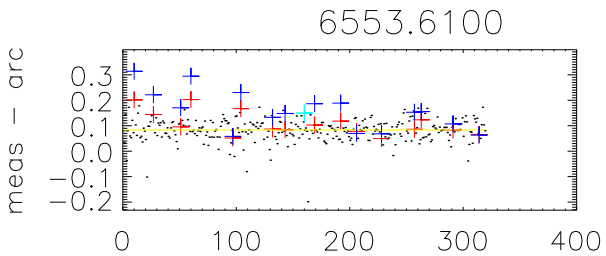

PLATE=0742 MJD=52263 Scattered Light on sdR-r2-00012305.fit
Brightness [electrons/pix]
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 7.287
Max value = 11.216
Mon Feb 25 12:14:37 2008

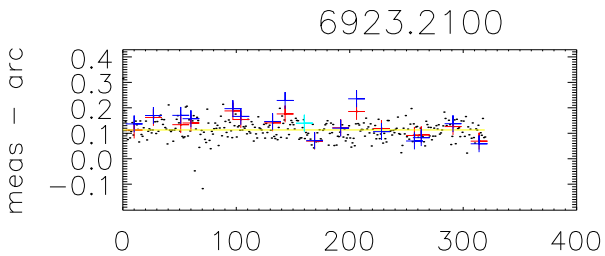

PLATE=0742 MJD=52263 Extraction chi^2 for sdR−r2−00012305.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
0
500
1000
1500
2000
Row number

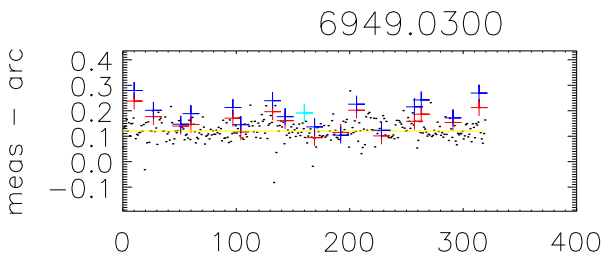

6300.3040
off: 0.15
sig: 0.004
6363.7760
off: 0.15
sig: 0.004
6553.6100
off: 0.15
sig: 0.022
6923.2100
off: 0.14
sig: 0.014
6949.0300
off: 0.19
sig: 0.013
7571.7500
off: 0.14
sig: 0.011
7794.1200
off: 0.04
sig: 0.006
7821.5100
off: 0.08
sig: 0.005
8399.1600
off: 0.12
sig: 0.004
8430.1700
off: 0.08
sig: 0.004
8885.8300
off: 0.13
sig: 0.004
8919.6100
off: 0.11
sig: 0.004

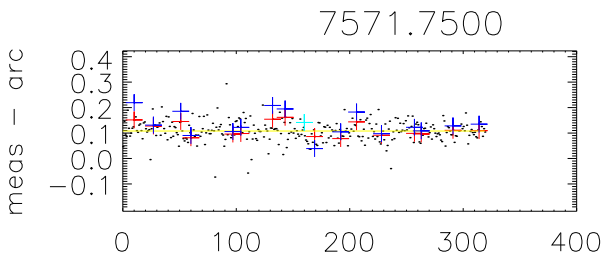

6300.3040
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

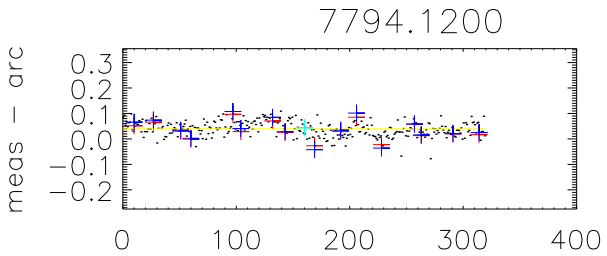

6363.7760
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

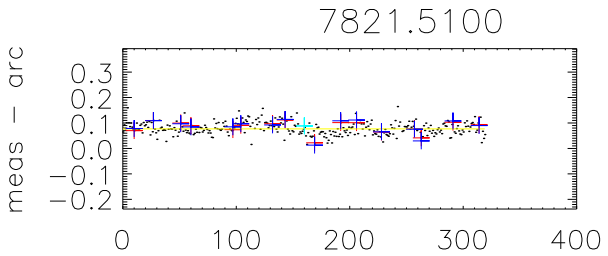

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

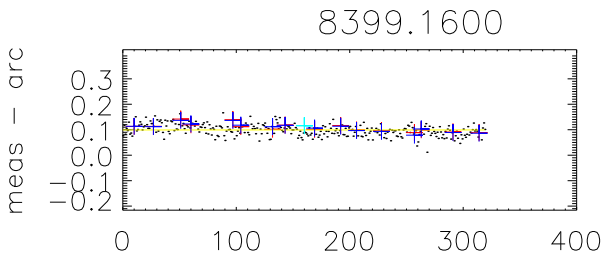

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

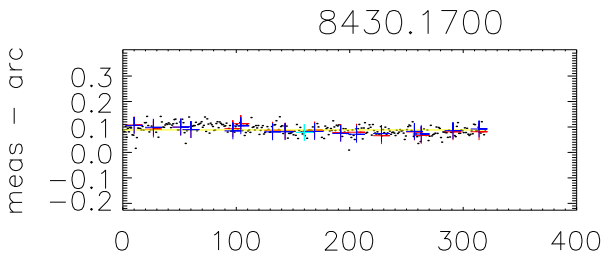

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

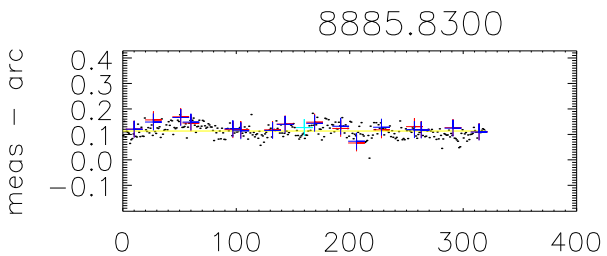

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

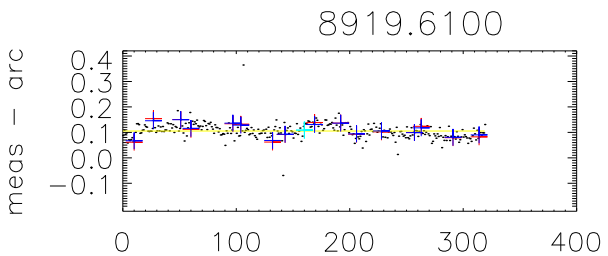

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

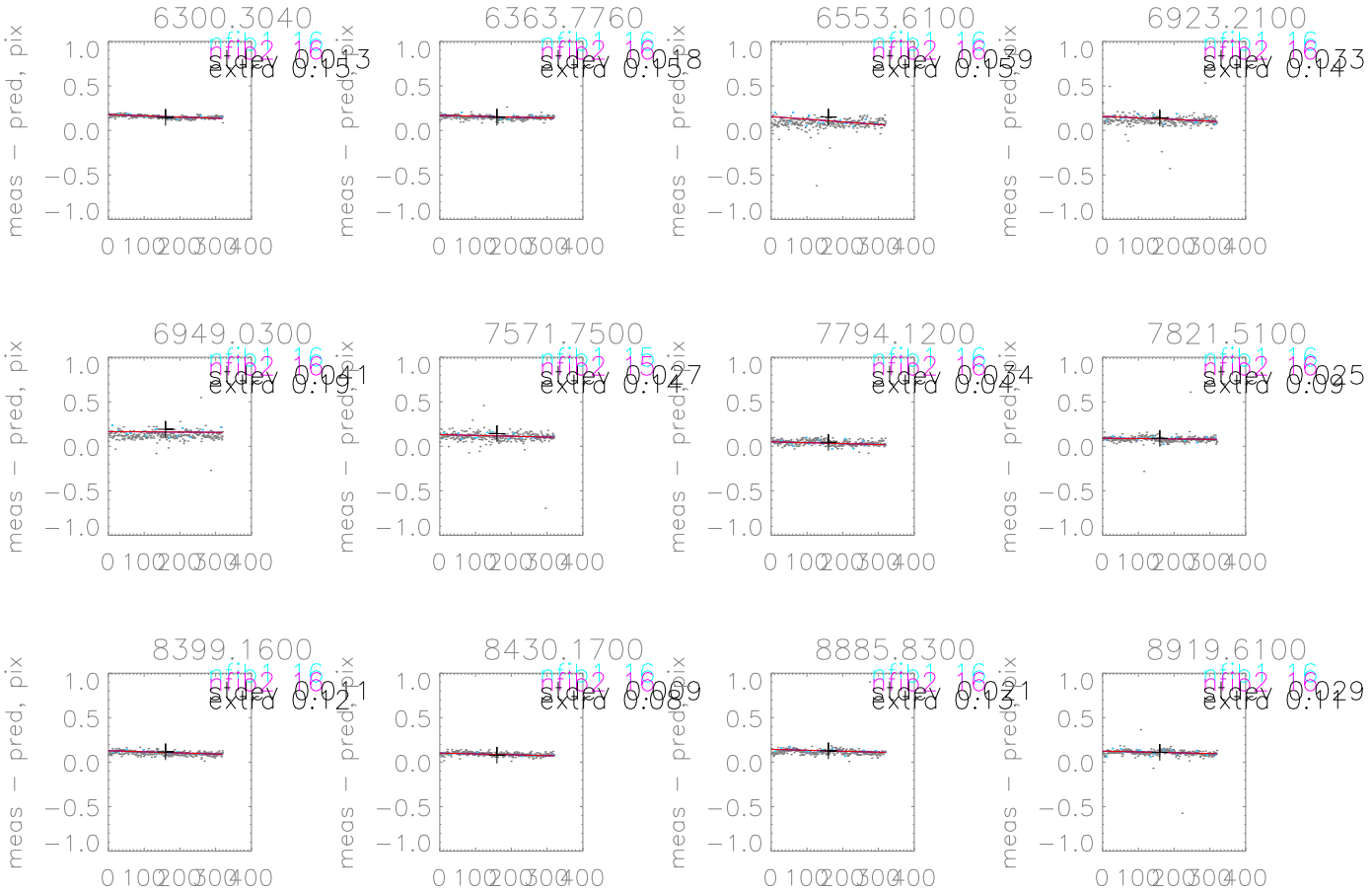

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

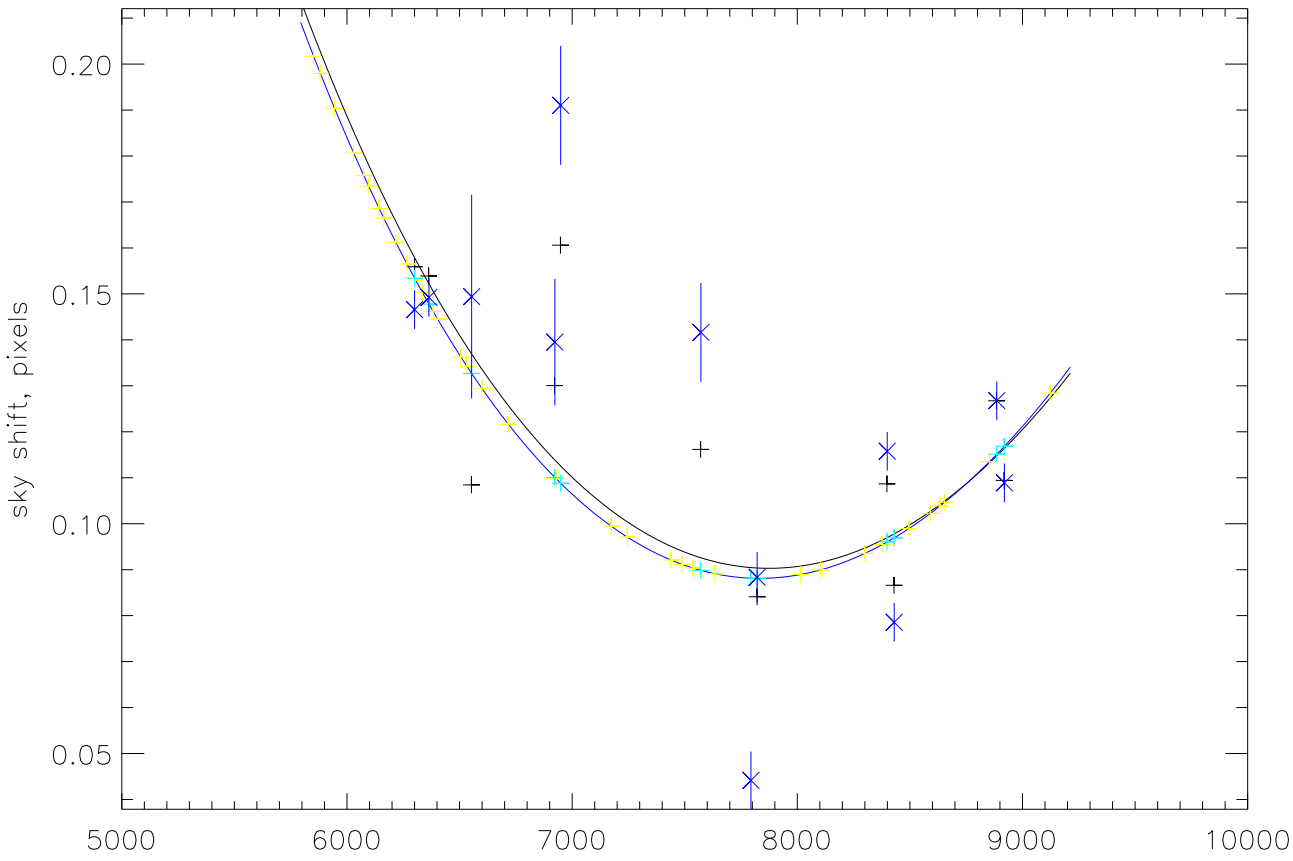

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

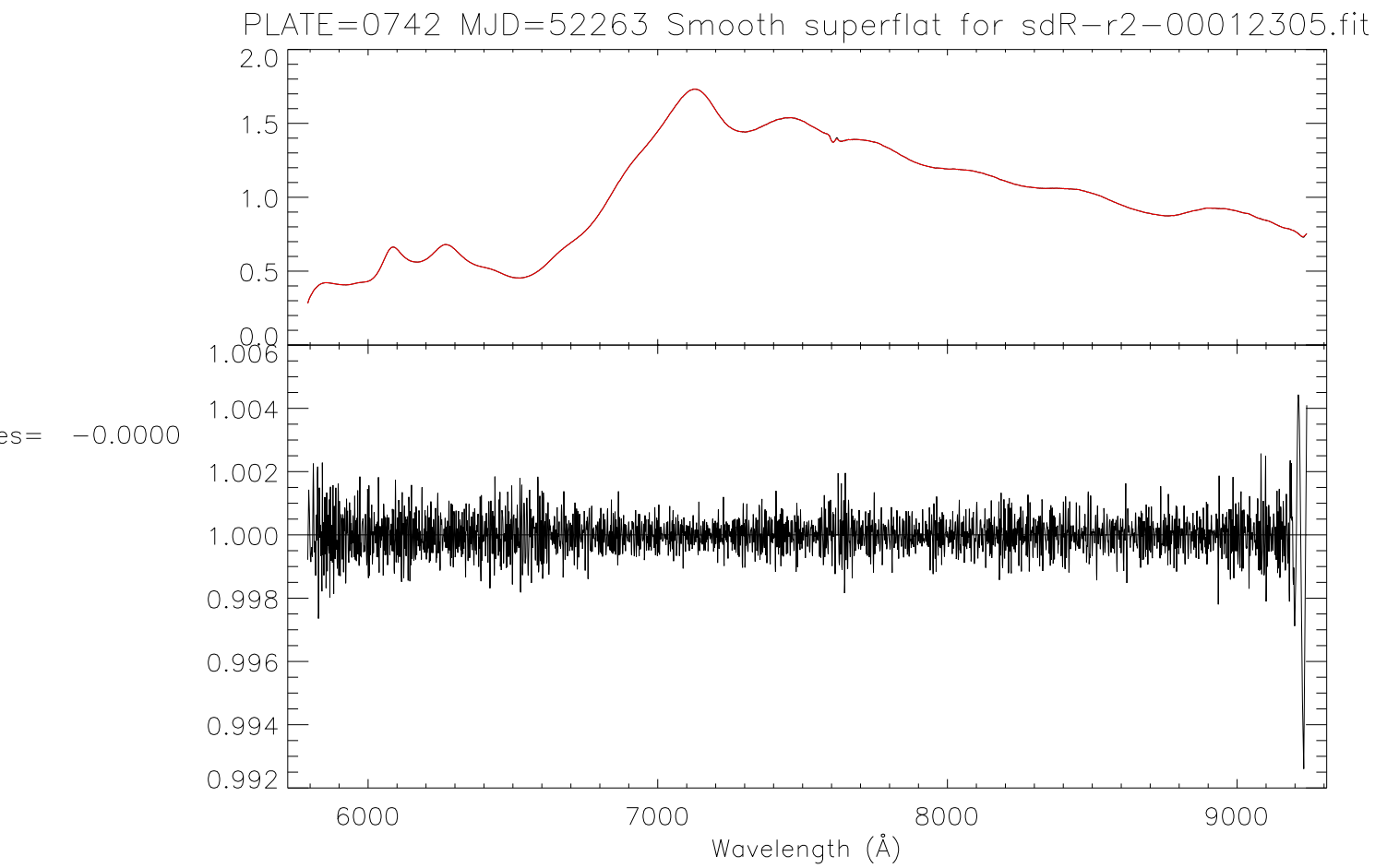

8430.1700
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

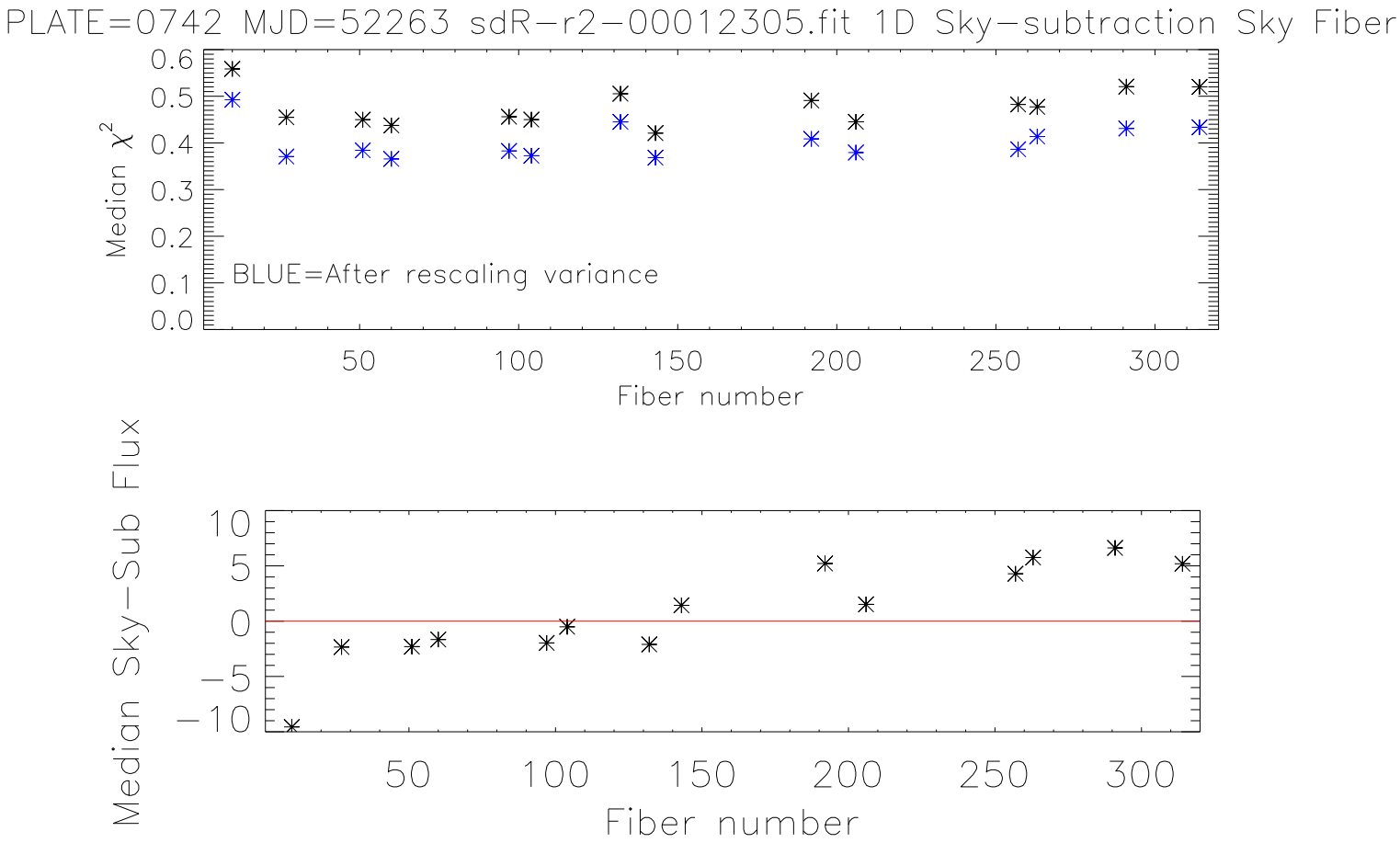

8885.8300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

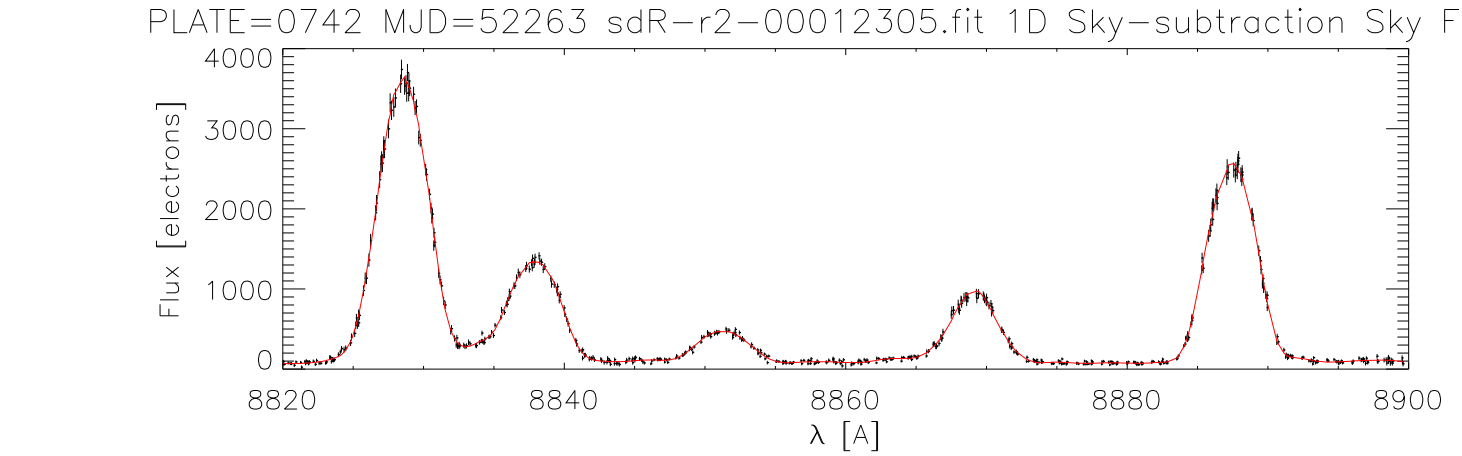

8919.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

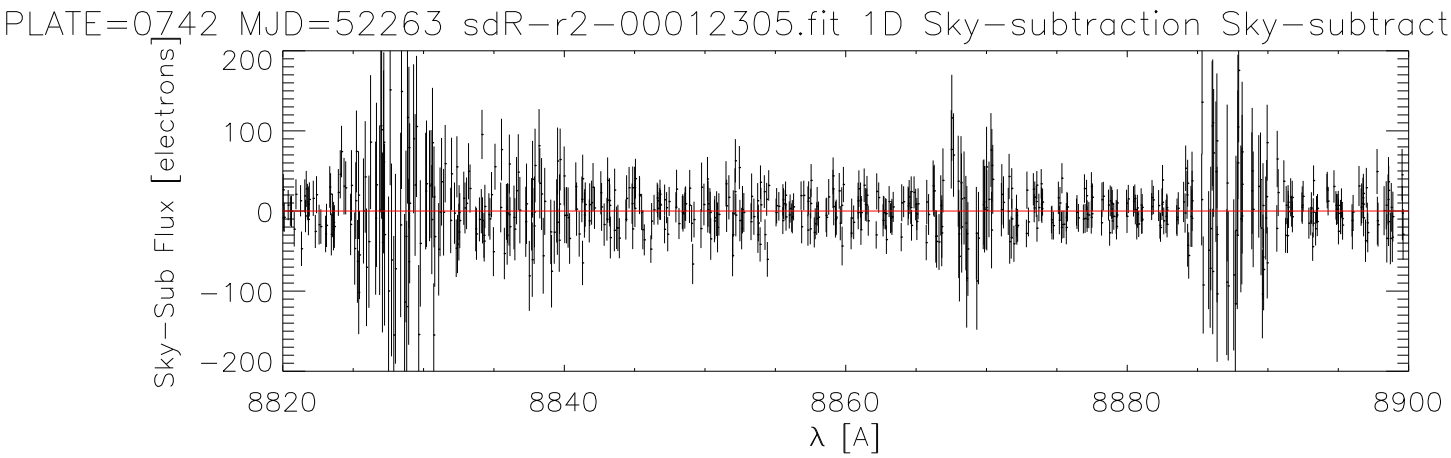

6300.3040
stdev 0.053
extra 0.15
6363.7760
stdev 0.058
extra 0.15
6553.6100
stdev 0.039
extra 0.15
6923.2100
stdev 0.033
extra 0.14
6949.0300
stdev 0.041
extra 0.19
7571.7500
stdev 0.027
extra 0.14
7794.1200
stdev 0.034
extra 0.04
7821.5100
stdev 0.025
extra 0.09
8399.1600
stdev 0.021
extra 0.12
8430.1700
stdev 0.009
extra 0.08
8885.8300
stdev 0.021
extra 0.13
8919.6100
stdev 0.029
extra 0.11
meas − pred, pix
mfib1 16
mfib2 16

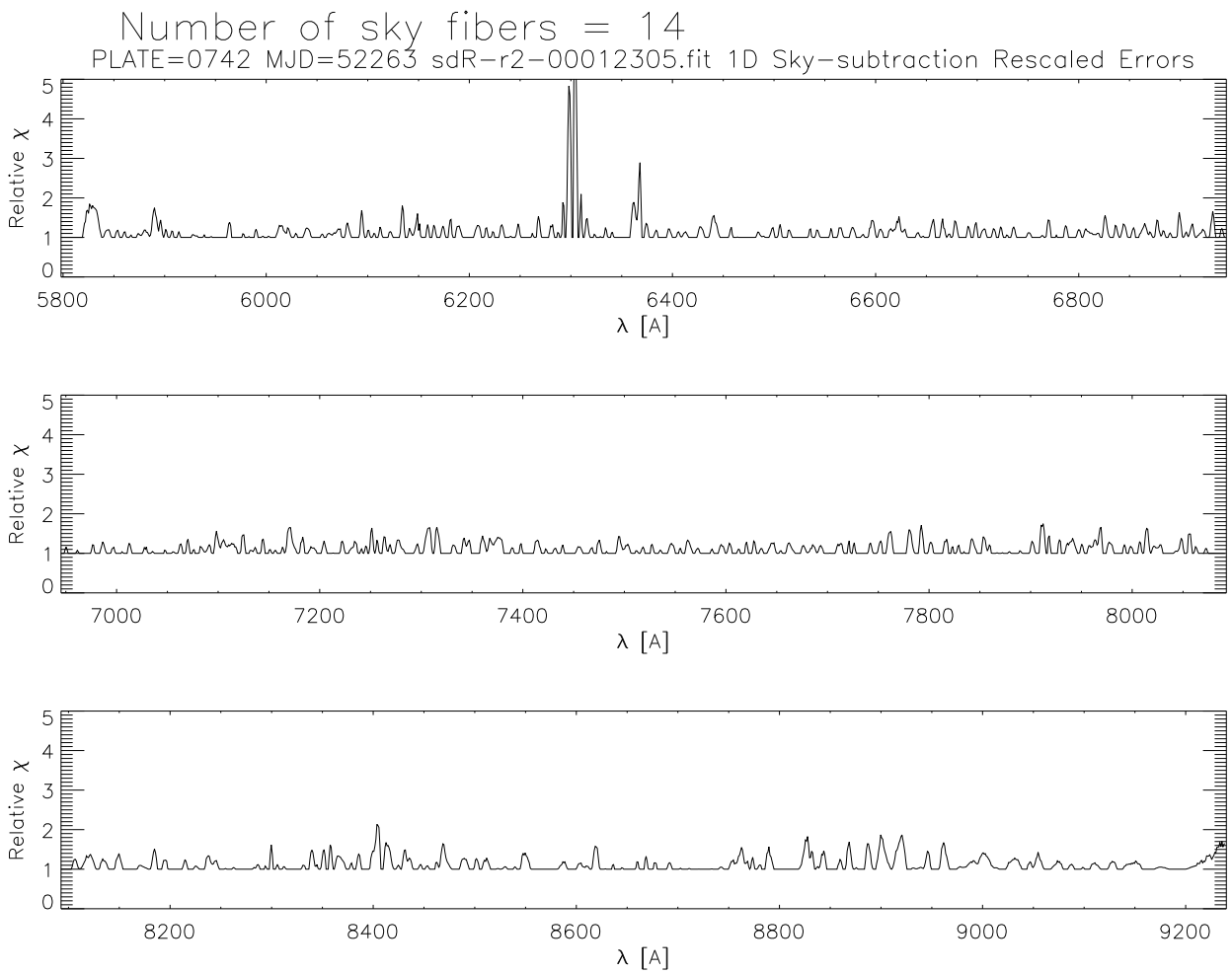

0.20
0.15
0.10
0.05
sky shift, pixels
5000
6000
7000
8000
9000
10000

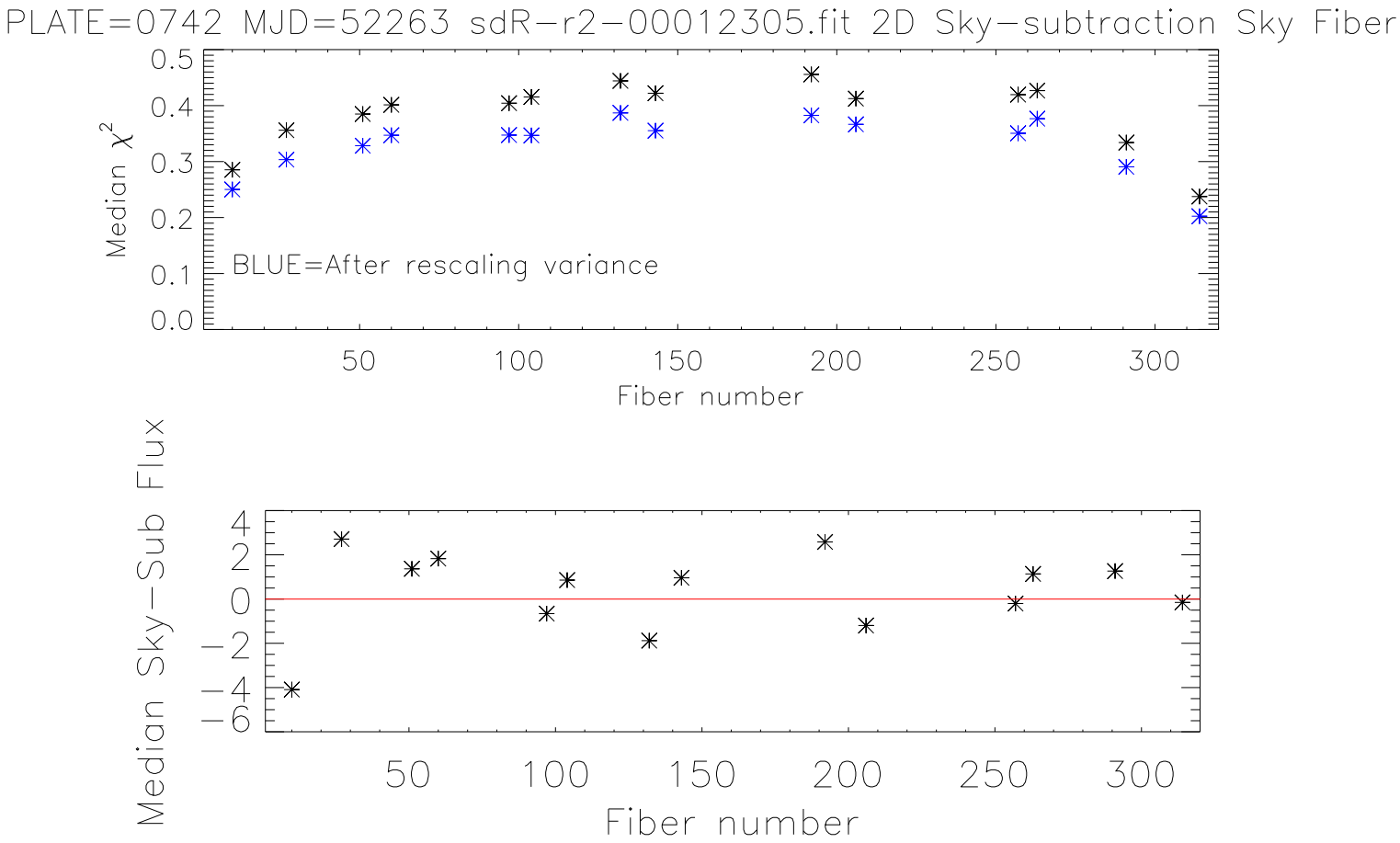

PLATE=0742 MJD=52263 Smooth superflat for sdR-r2-00012305.fit
es= -0.0000
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
6000
7000
8000
9000
Wavelength (Å)

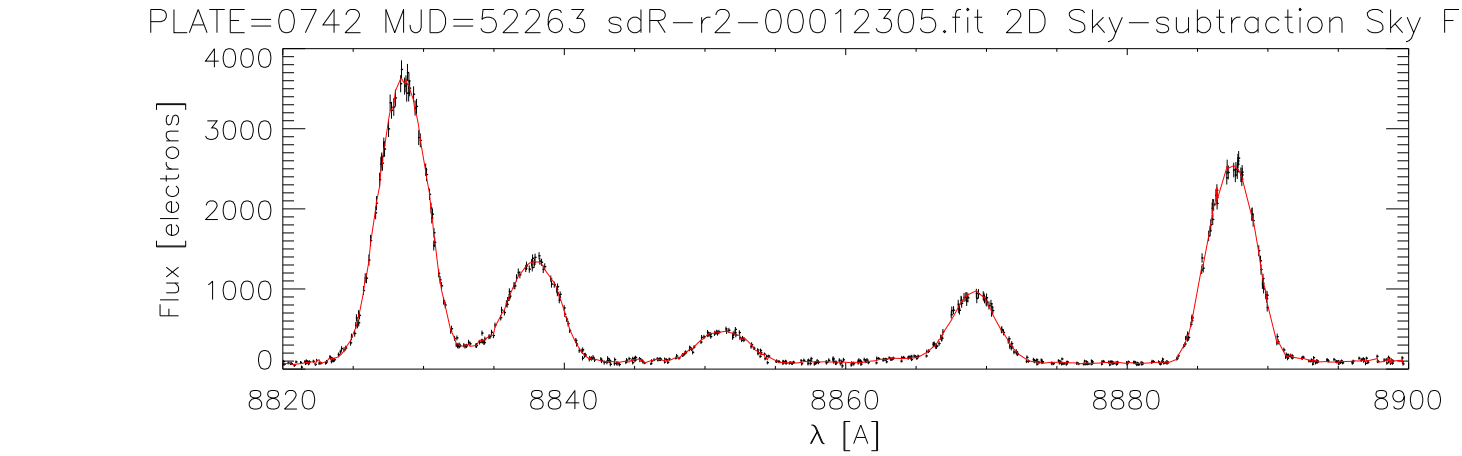

PLATE=0742 MJD=52263 sdR-r2-00012305.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

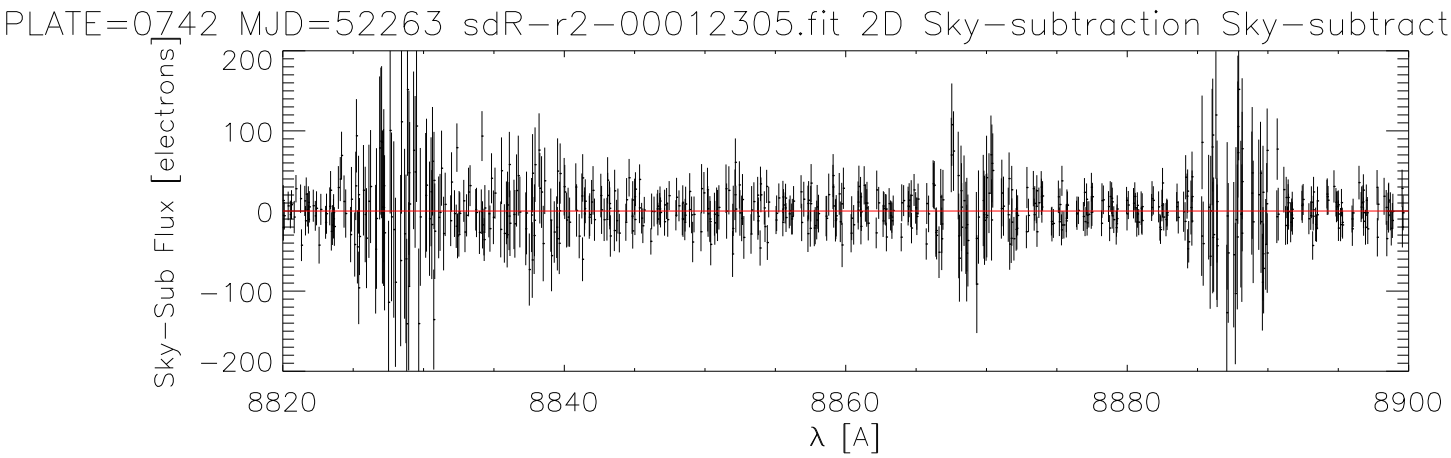

PLATE=0742 MJD=52263 sdR-r2-00012305.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

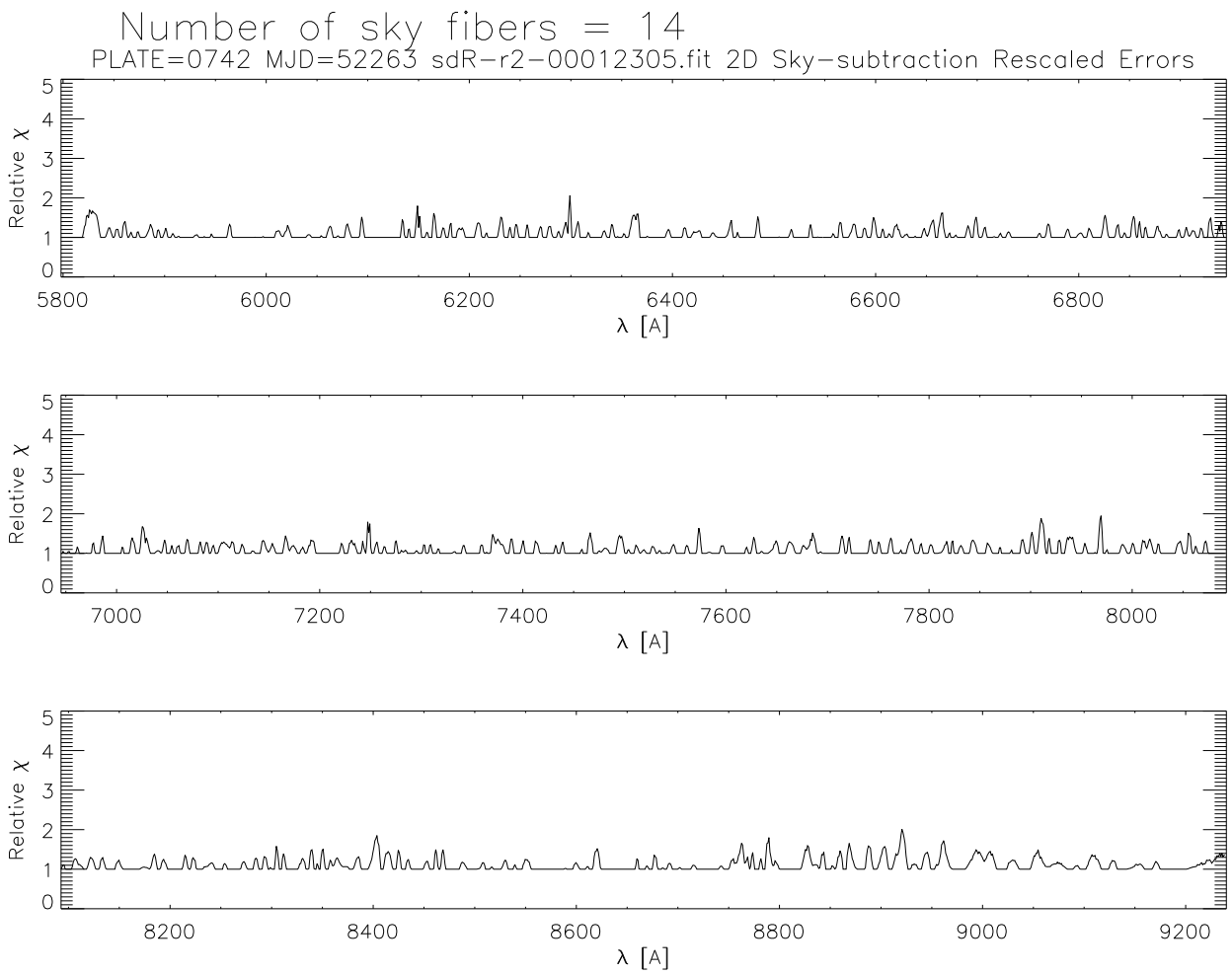

PLATE=0742 MJD=52263 sdR-r2-00012305.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

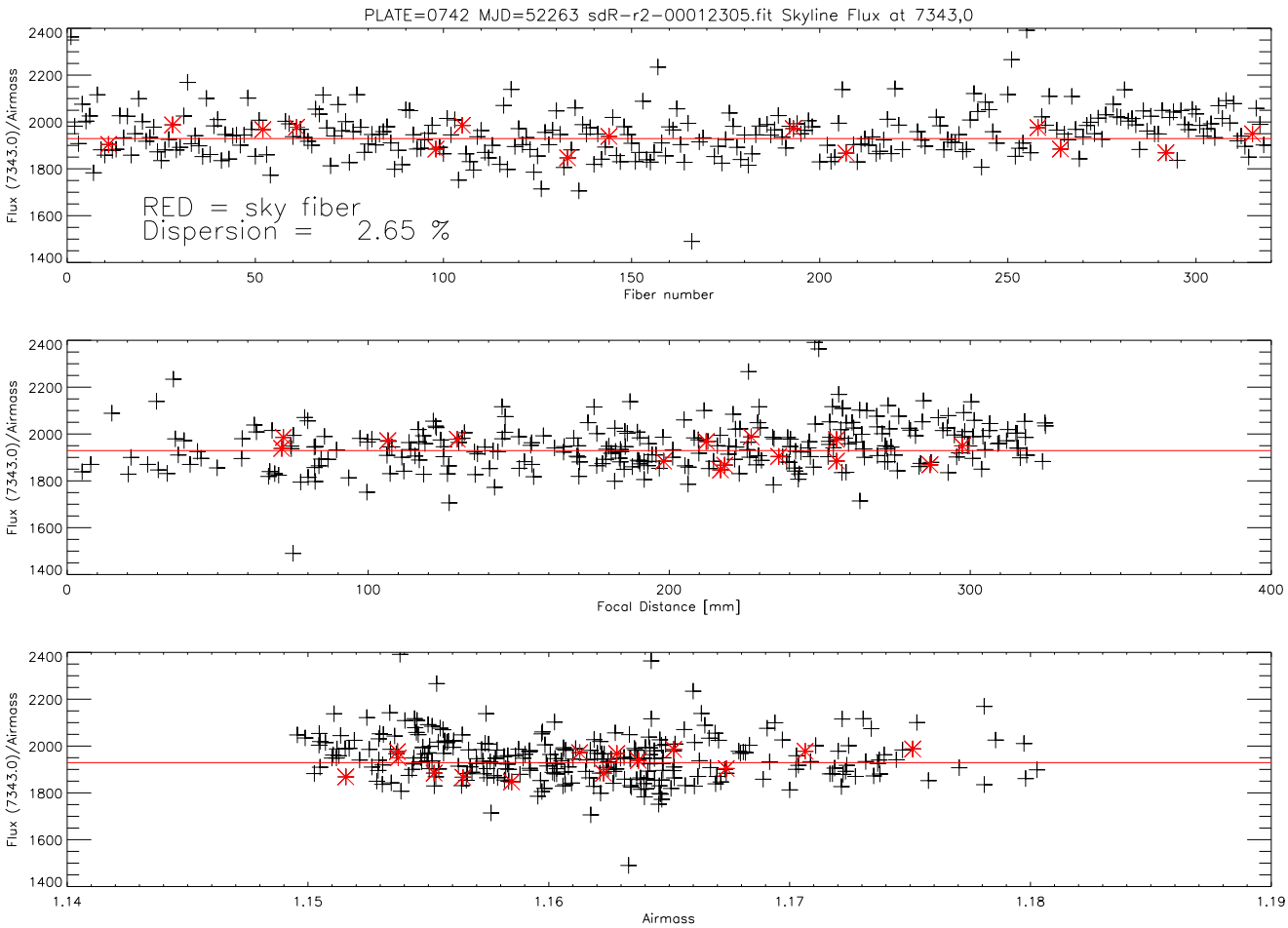

Number of sky fibers = 14
PLATE=0742 MJD=52263 sdR-r2-00012305.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

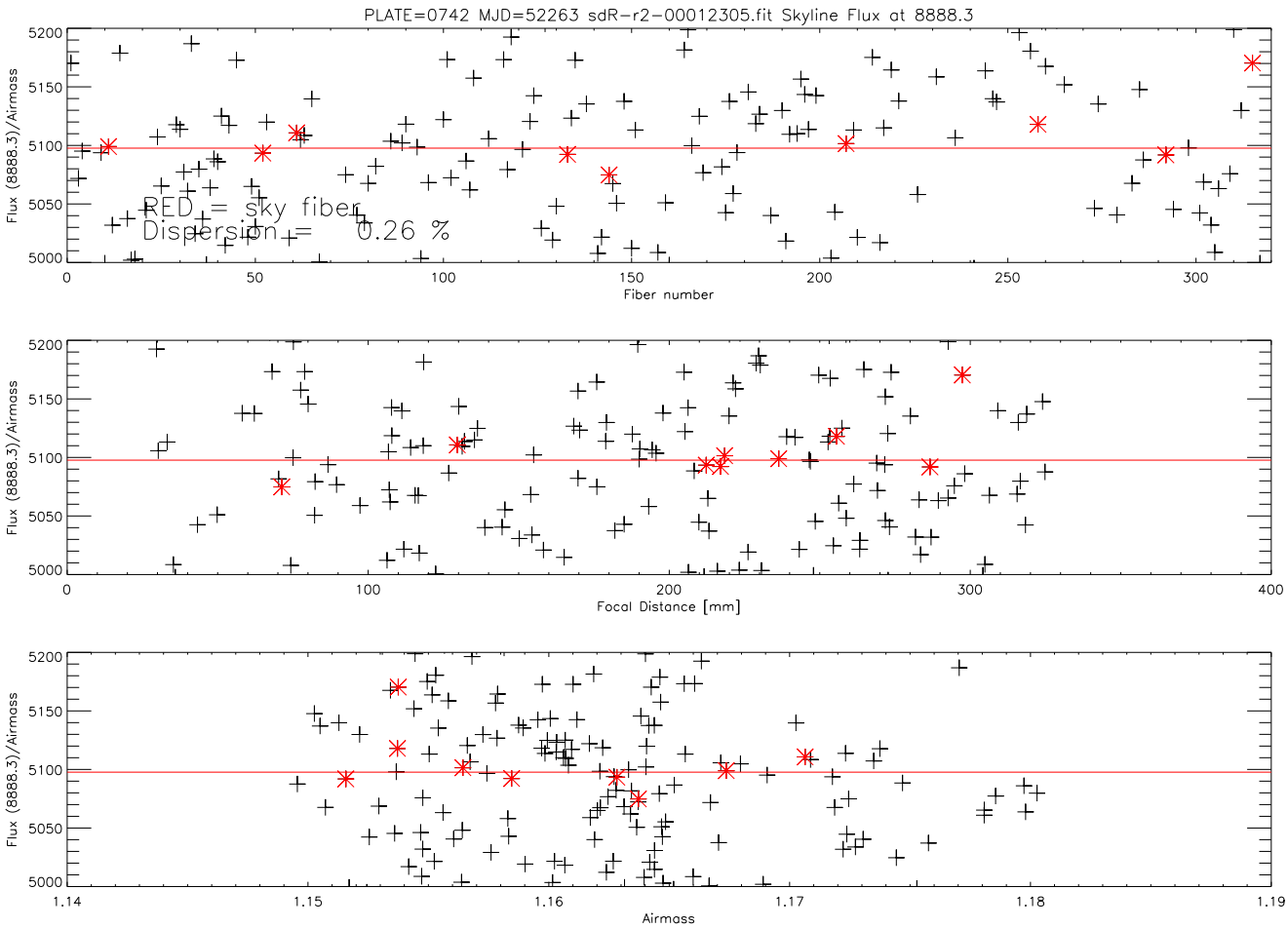

PLATE=0742 MJD=52263 sdR-r2-00012305.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

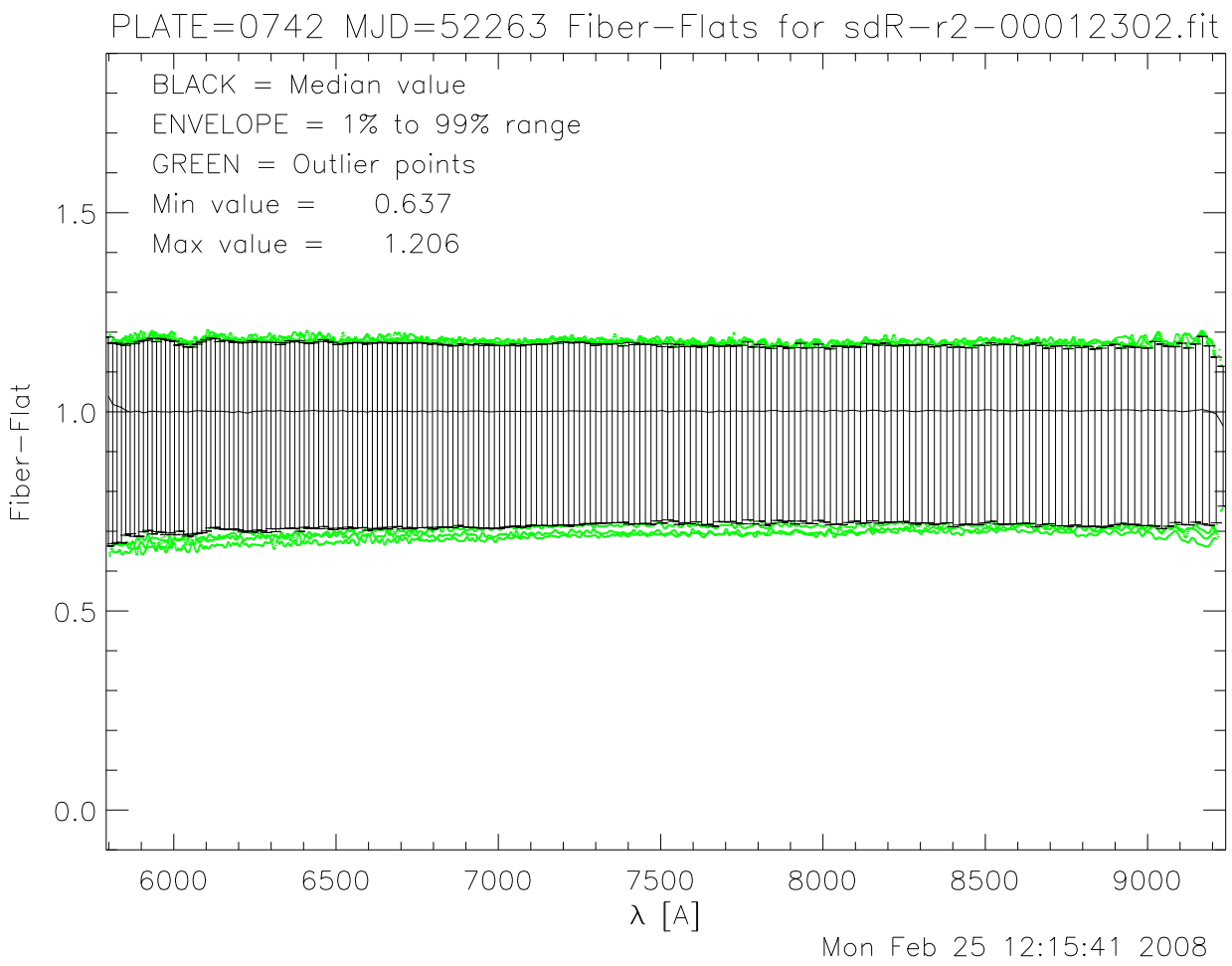

PLATE=0742 MJD=52263 sdR-r2-00012305.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

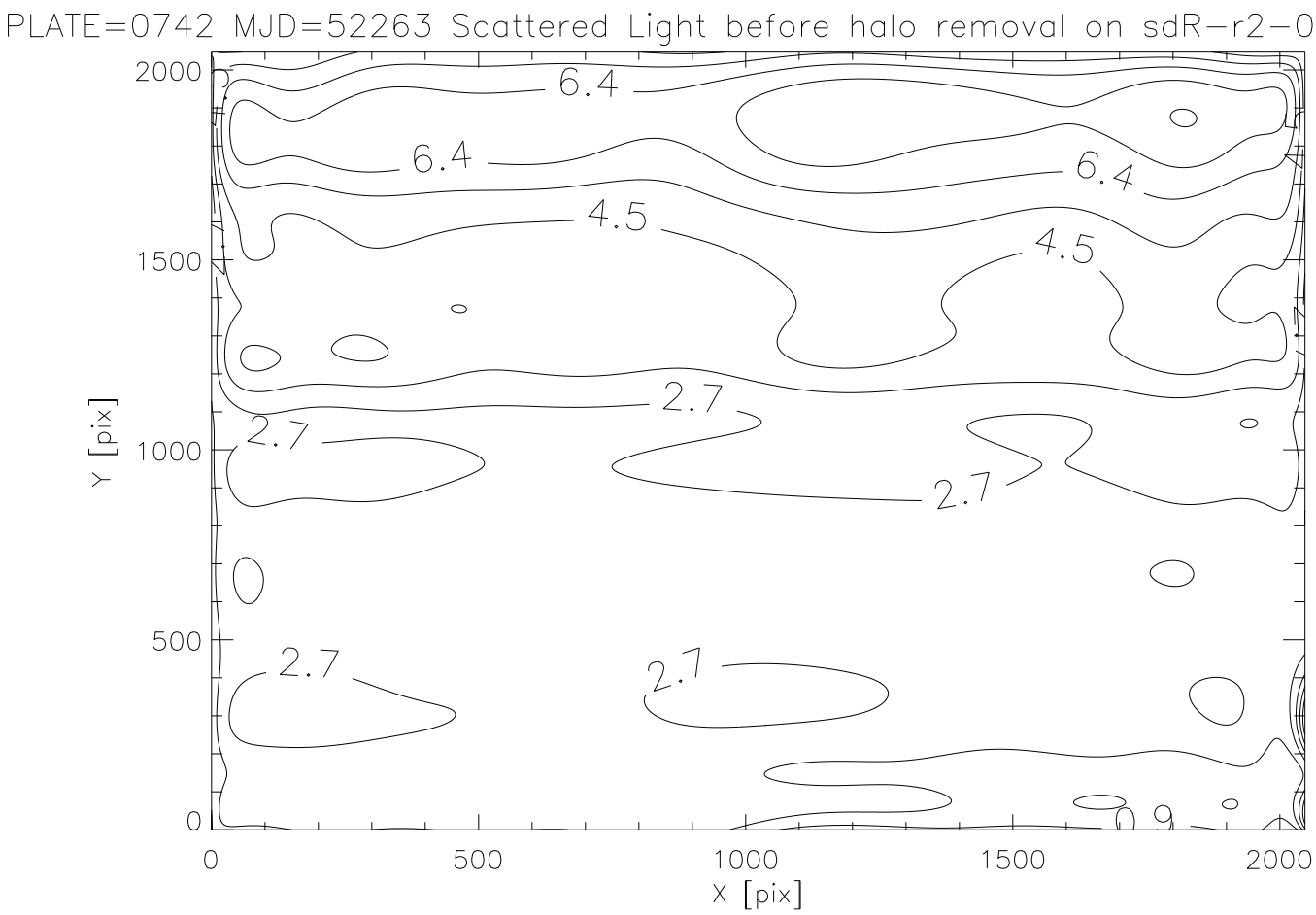

PLATE=0742 MJD=52263 sdR-r2-00012305.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

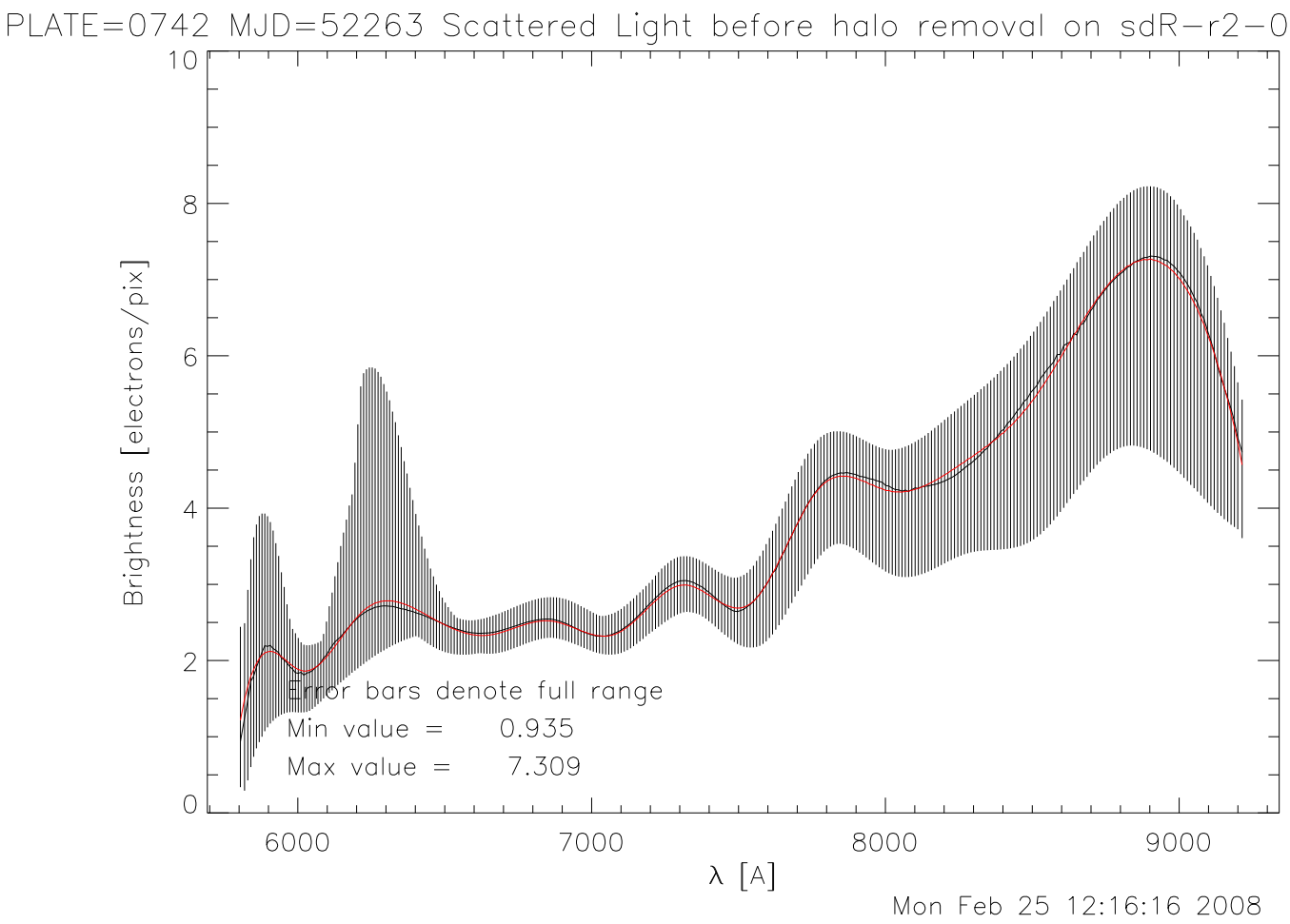

Number of sky fibers = 14
PLATE=0742 MJD=52263 sdR-r2-00012305.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

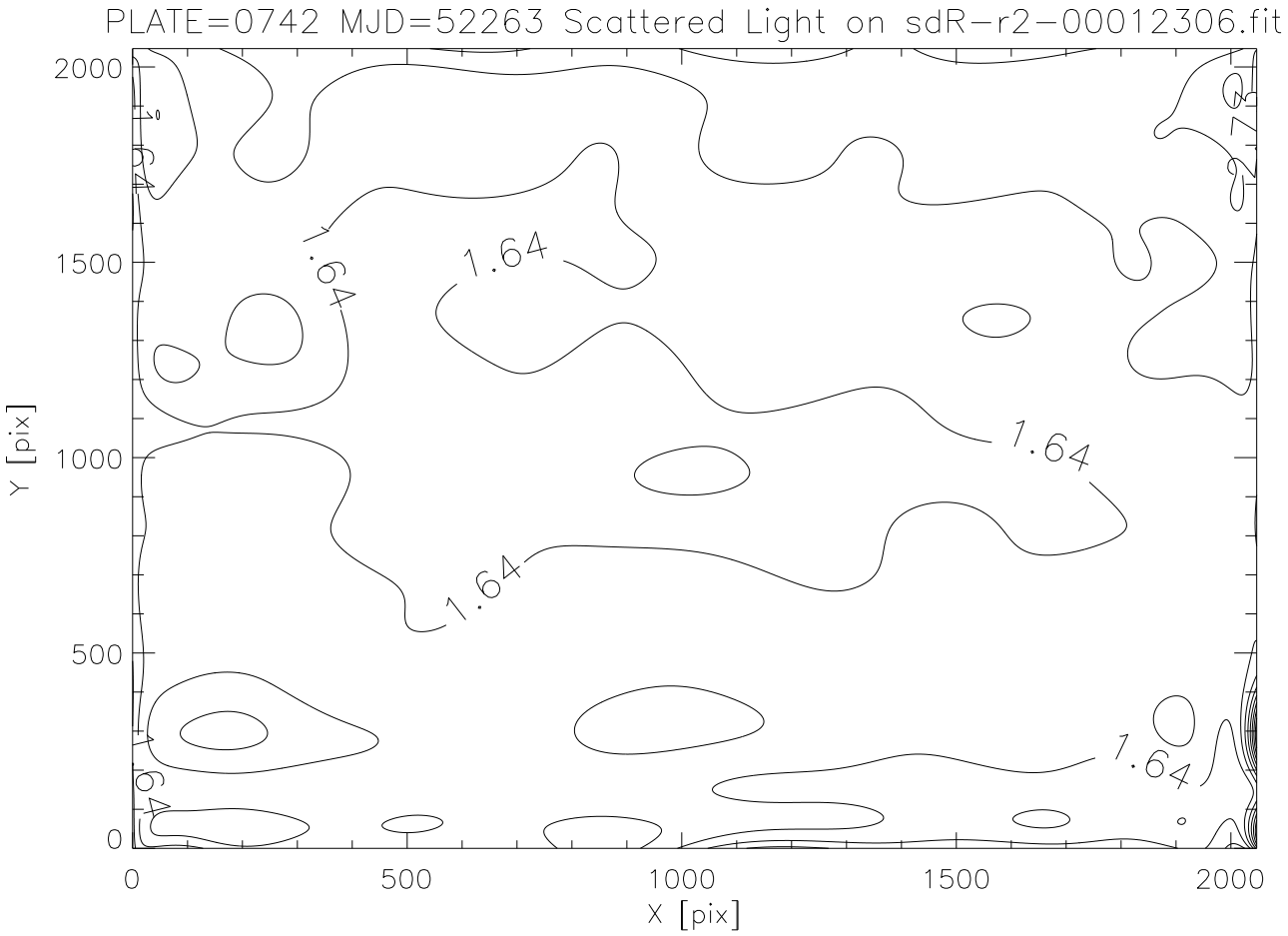

PLATE=0742 MJD=52263 sdR-r2-00012305.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.65 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

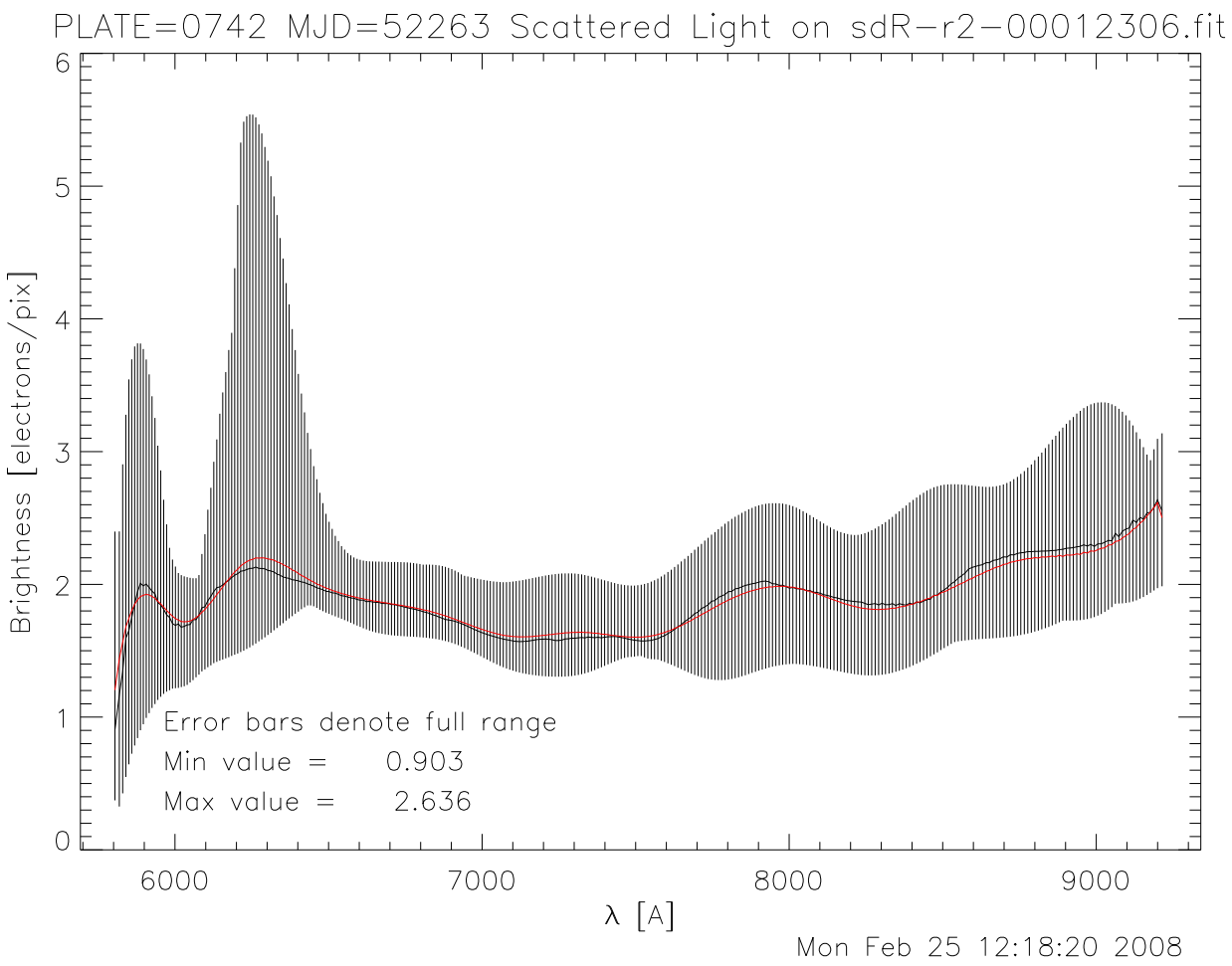

PLATE=0742 MJD=52263 sdR-r2-00012305.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 0.26 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

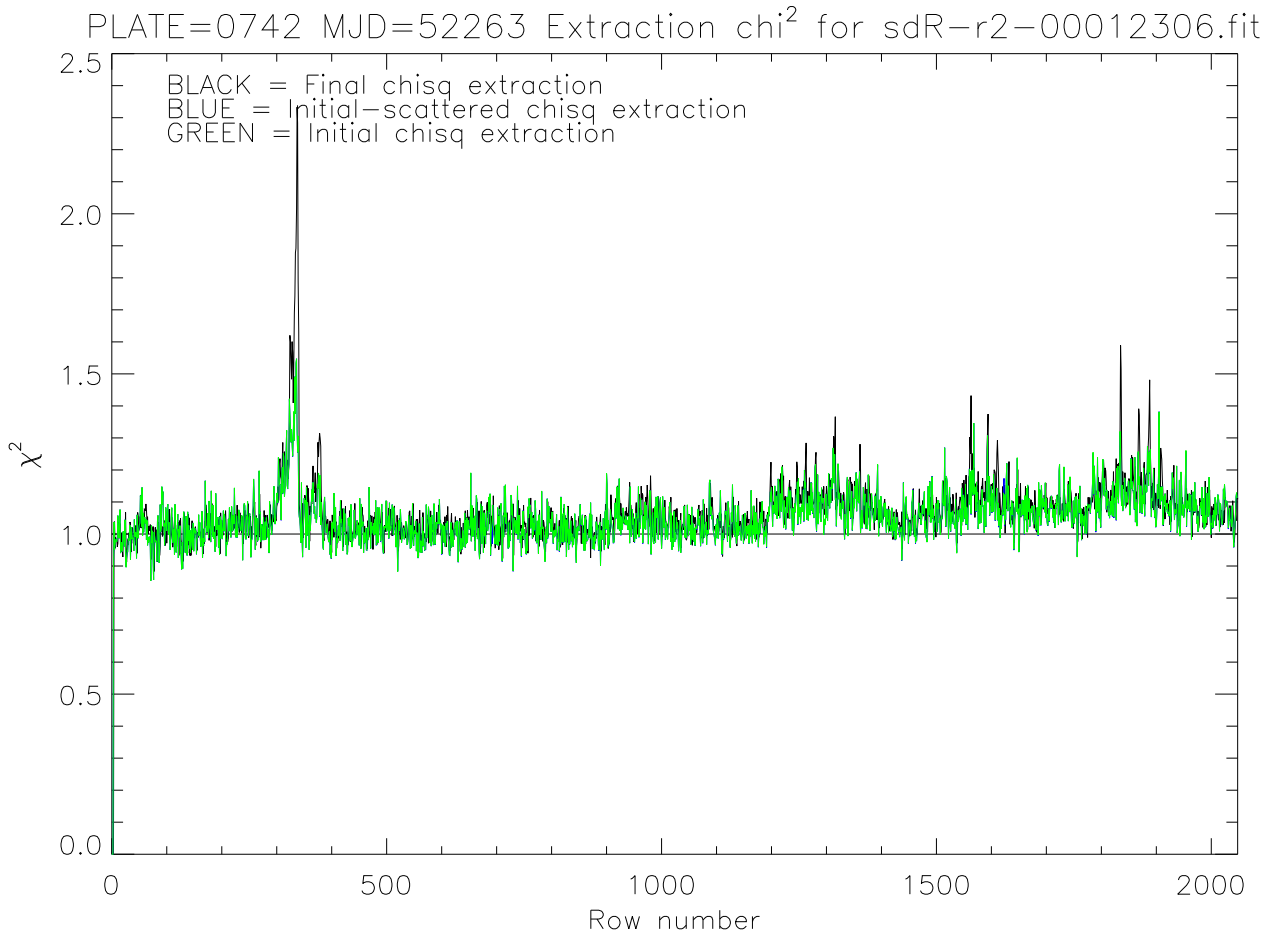

PLATE=0742 MJD=52263 Fiber-Flats for sdR-r2-00012302.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.637
Max value = 1.206
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 25 12:15:41 2008

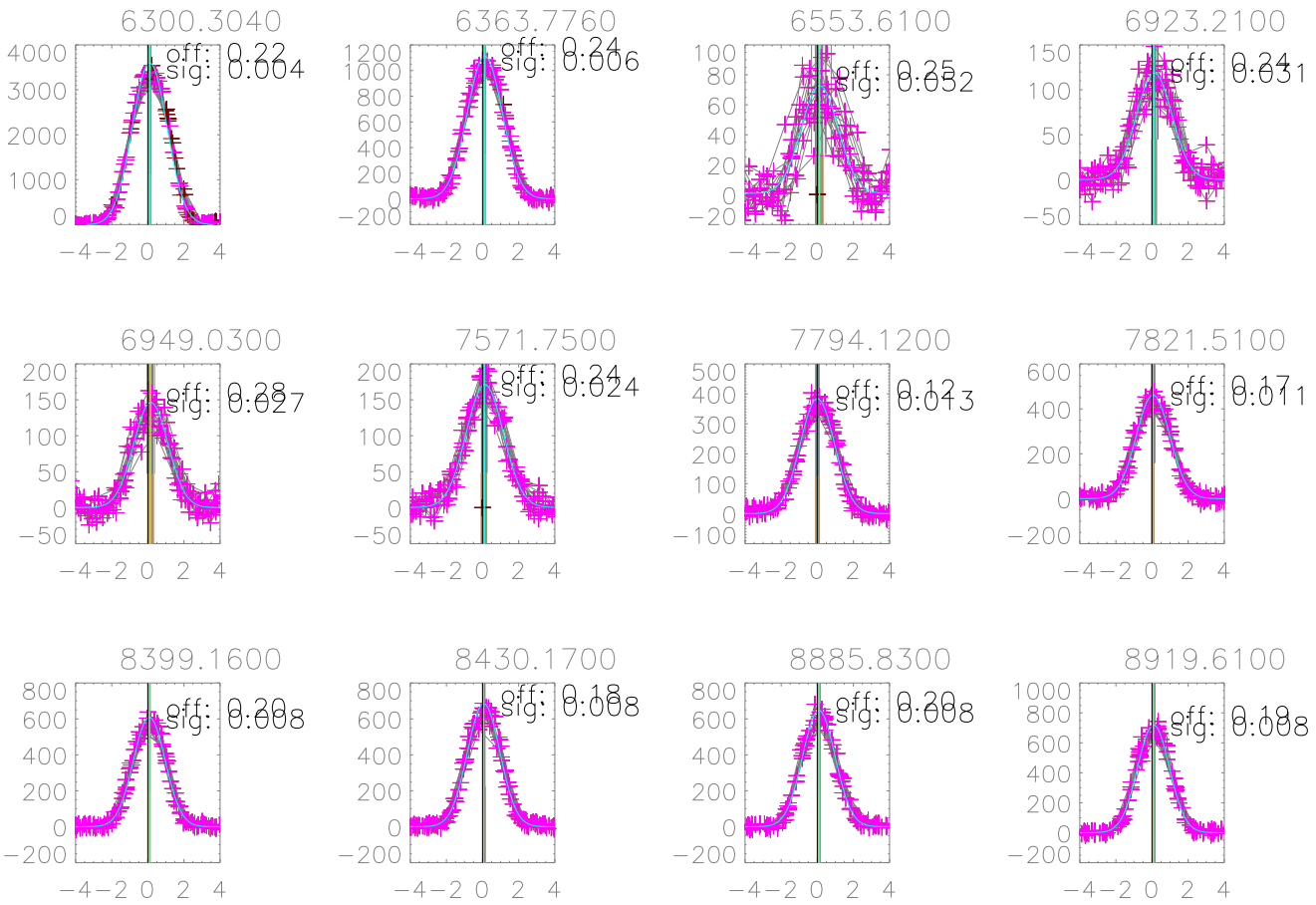

PLATE=0742 MJD=52263 Scattered Light before halo removal on sdR-r2-00012306.fi
6.4
6.4
6.4
4.5
4.5
2.7
2.7
2.7
2.7
2.7
0.9
Y [pix]
X [pix]
0
500
1000
1500
2000

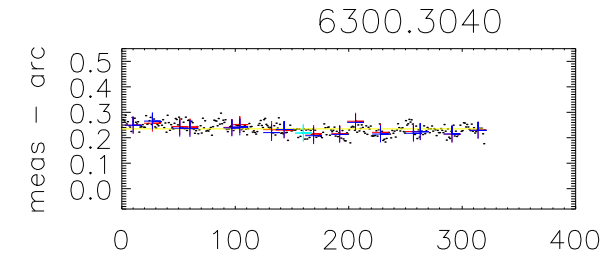

PLATE=0742 MJD=52263 Scattered Light before halo removal on sdR-r2-00012306.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 0.935
Max value = 7.309
Mon Feb 25 12:16:16 2008

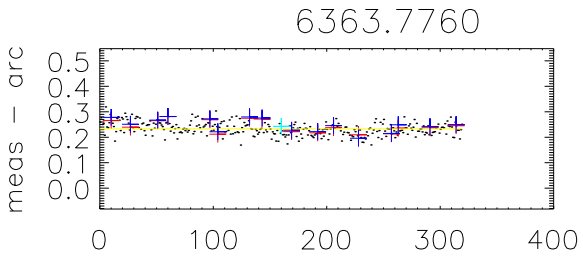

PLATE=0742 MJD=52263 Scattered Light on sdR-r2-00012306.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
1.64

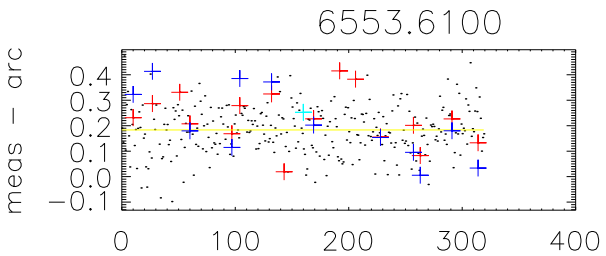

PLATE=0742 MJD=52263 Scattered Light on sdR-r2-00012306.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 0.903
Max value = 2.636
Mon Feb 25 12:18:20 2008

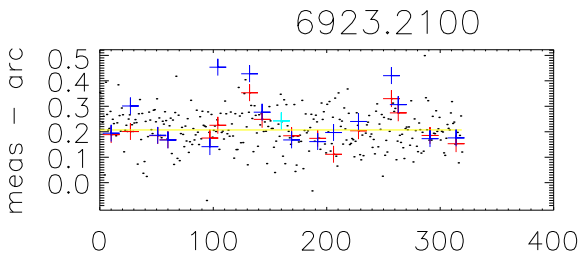

PLATE=0742 MJD=52263 Extraction chi^2 for sdR−r2−00012306.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

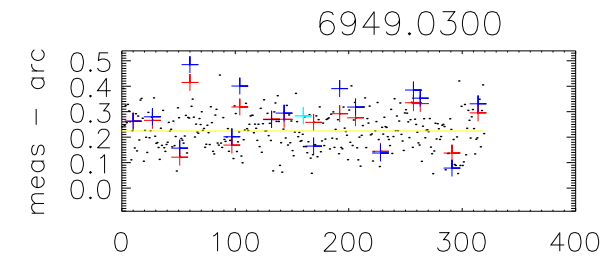

6300.3040
off: 0.22
sig: 0.004
6363.7760
off: 0.24
sig: 0.006
6553.6100
off: 0.25
sig: 0.052
6923.2100
off: 0.24
sig: 0.031
6949.0300
off: 0.28
sig: 0.027
7571.7500
off: 0.24
sig: 0.024
7794.1200
off: 0.12
sig: 0.043
7821.5100
off: 0.17
sig: 0.011
8399.1600
off: 0.20
sig: 0.008
8430.1700
off: 0.18
sig: 0.008
8885.8300
off: 0.20
sig: 0.008
8919.6100
off: 0.18
sig: 0.008

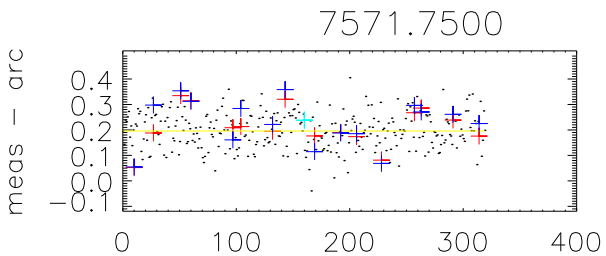

6300.3040
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

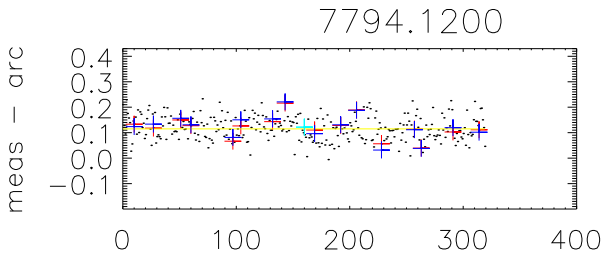

6363.7760
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

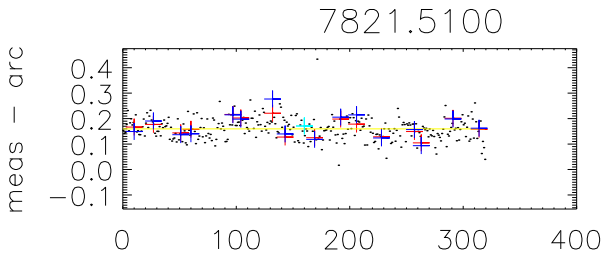

6553.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

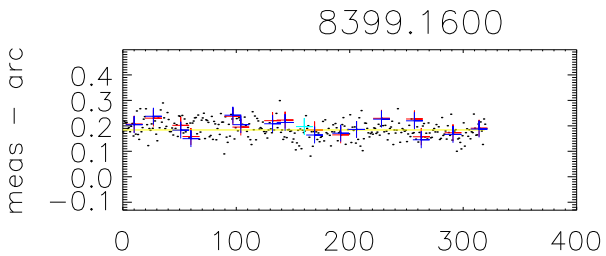

6923.2100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

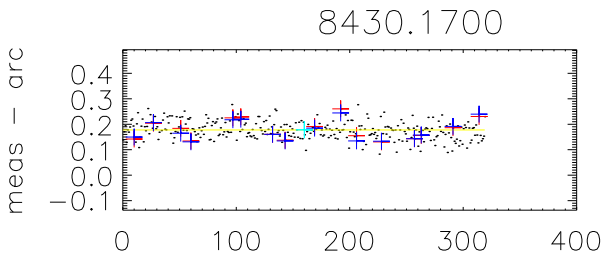

6949.0300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

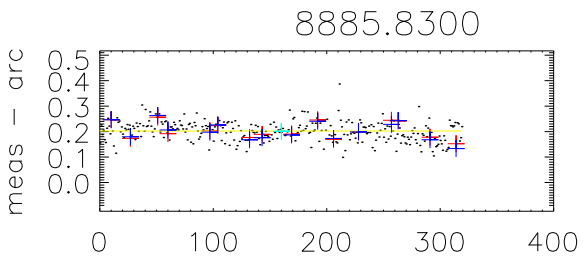

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

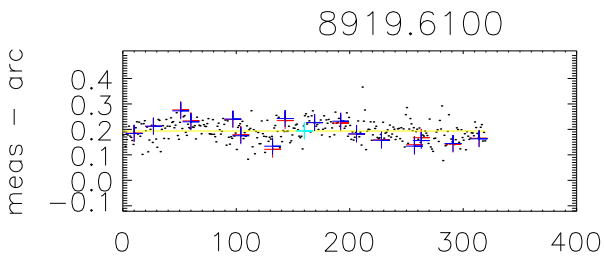

7794.1200
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

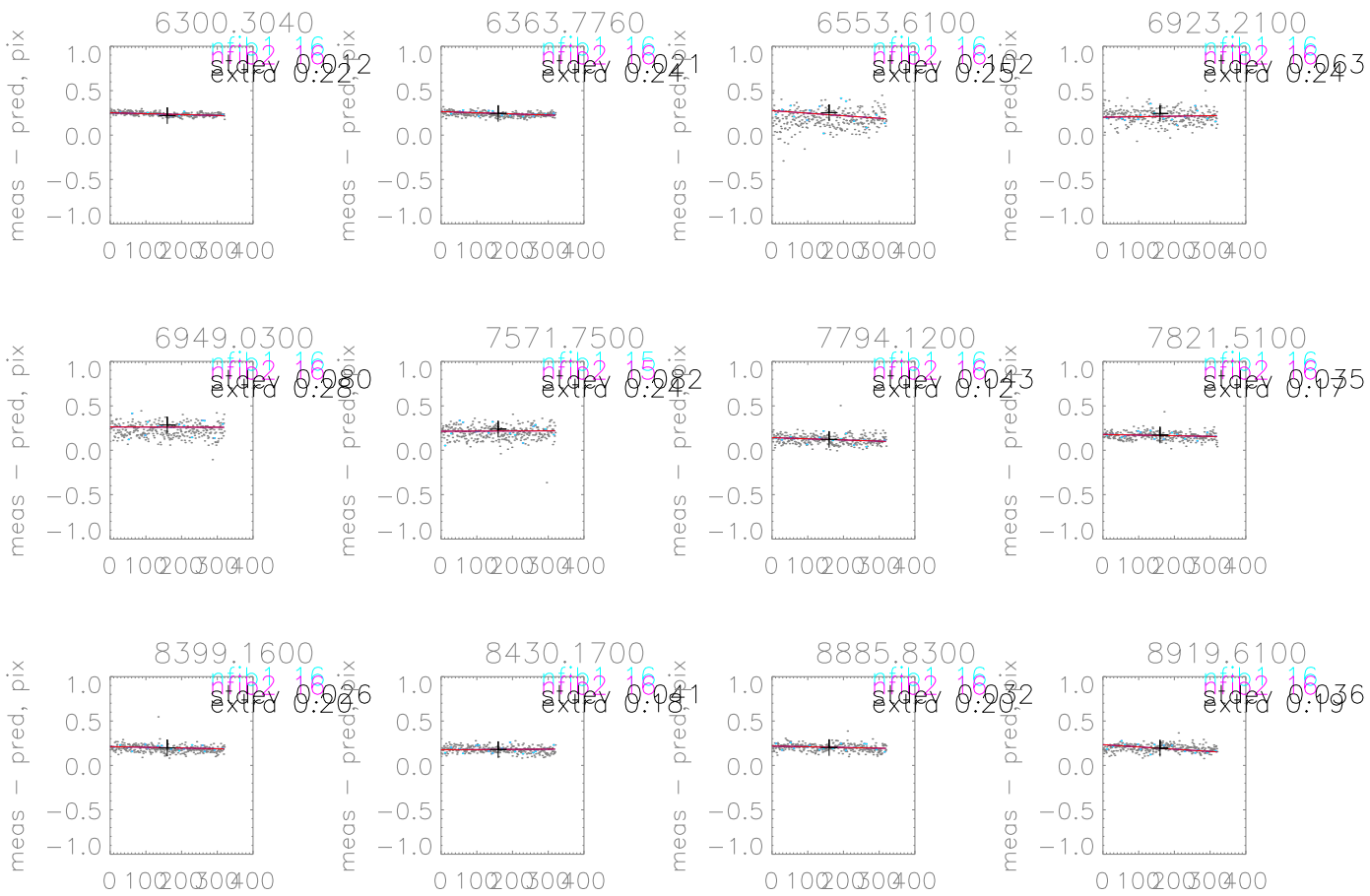

7821.5100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

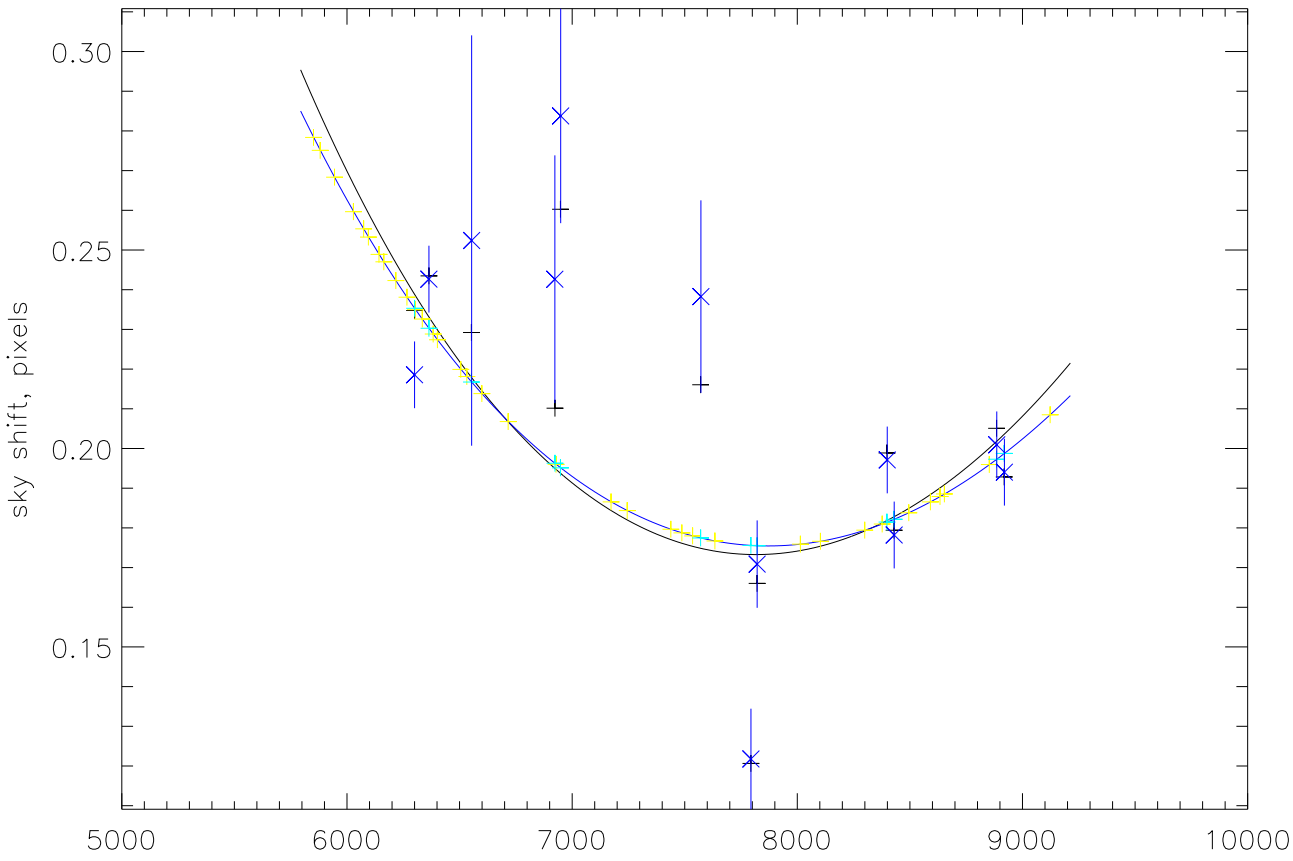

8399.1600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

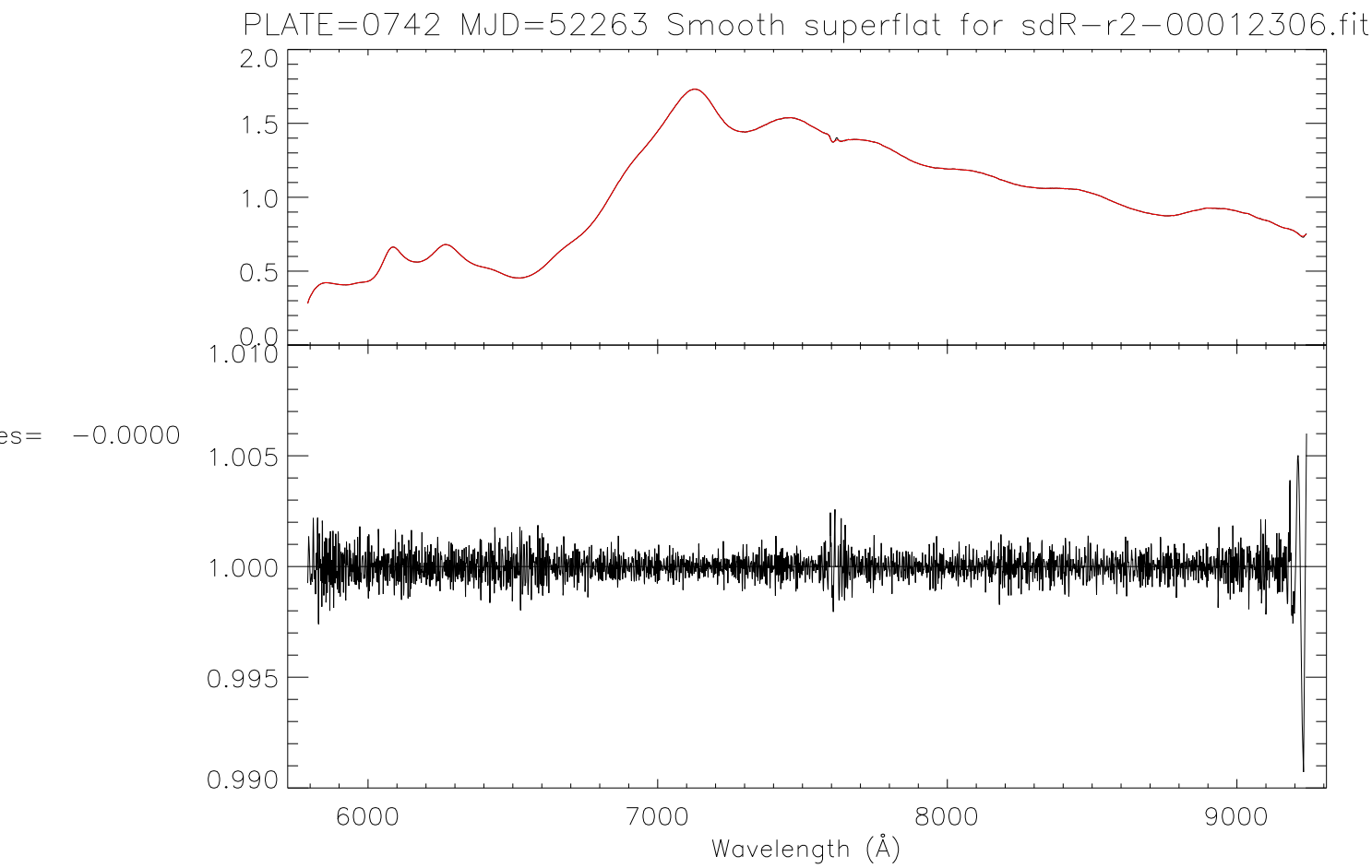

8430.1700
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

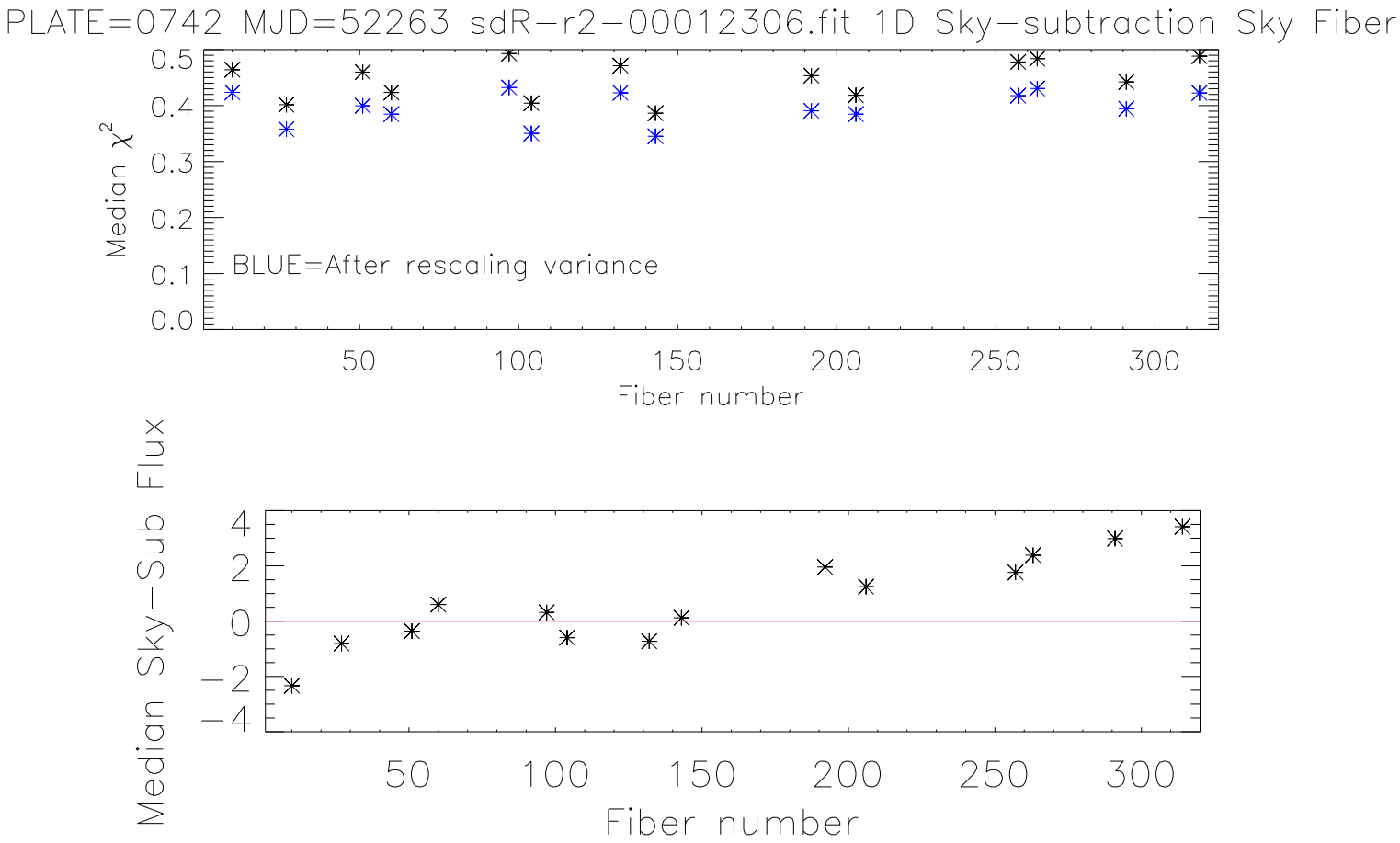

8919.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

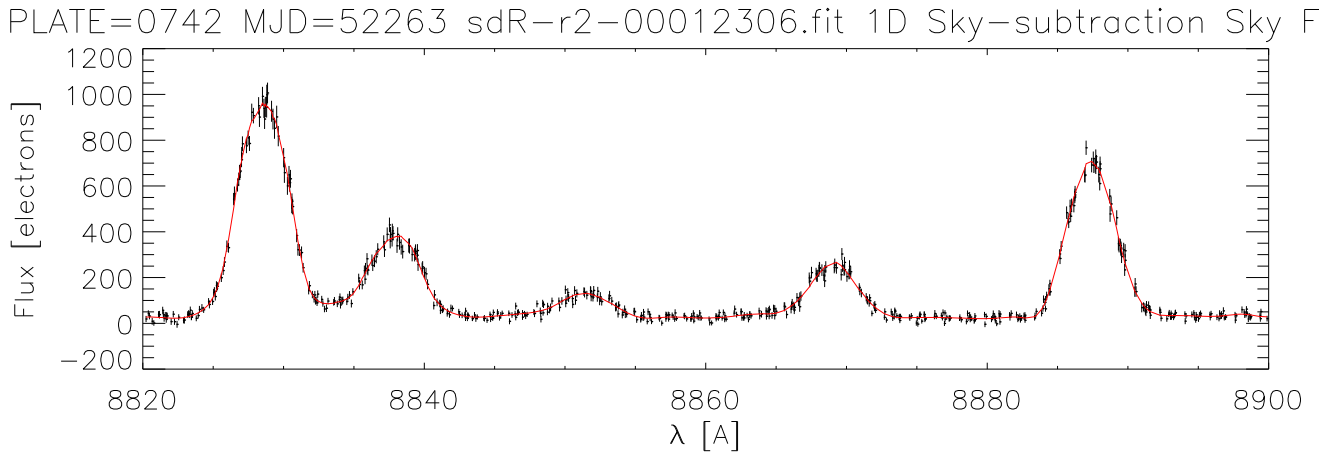

6300.3040
stdev 0.012
extra 0.22
6363.7760
stdev 0.021
extra 0.24
6553.6100
stdev 0.102
extra 0.25
6923.2100
stdev 0.063
extra 0.24
6949.0300
stdev 0.080
extra 0.28
7571.7500
stdev 0.082
extra 0.24
7794.1200
stdev 0.043
extra 0.12
7821.5100
stdev 0.035
extra 0.17
8399.1600
stdev 0.026
extra 0.24
8430.1700
stdev 0.041
extra 0.18
8885.8300
stdev 0.032
extra 0.20
8919.6100
stdev 0.036
extra 0.19
meas − pred, pix

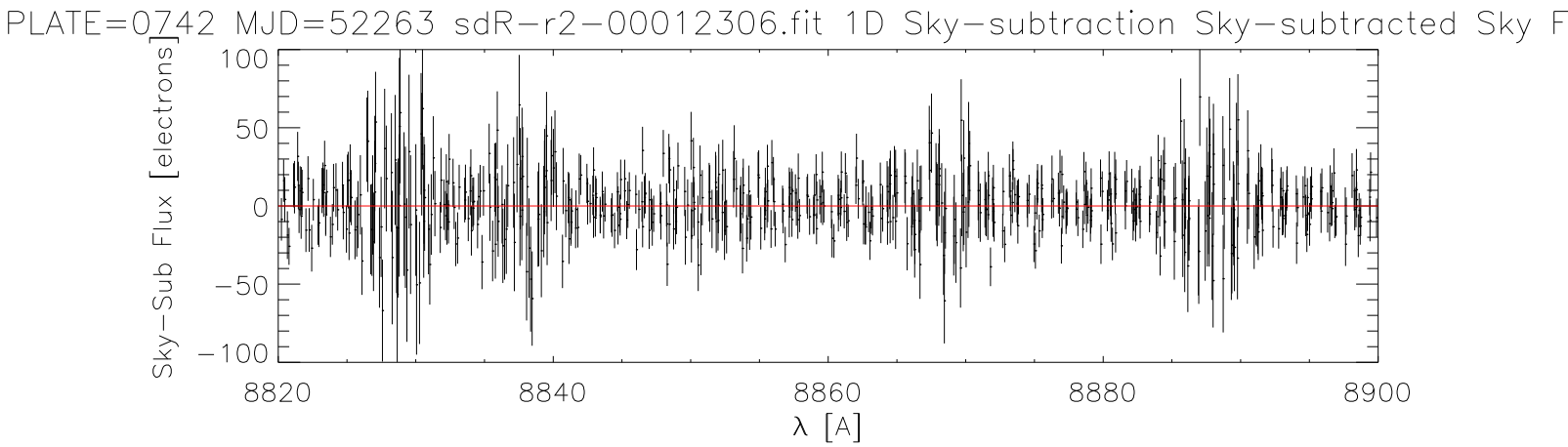

0.30
0.25
0.20
0.15
sky shift, pixels
5000
6000
7000
8000
9000
10000

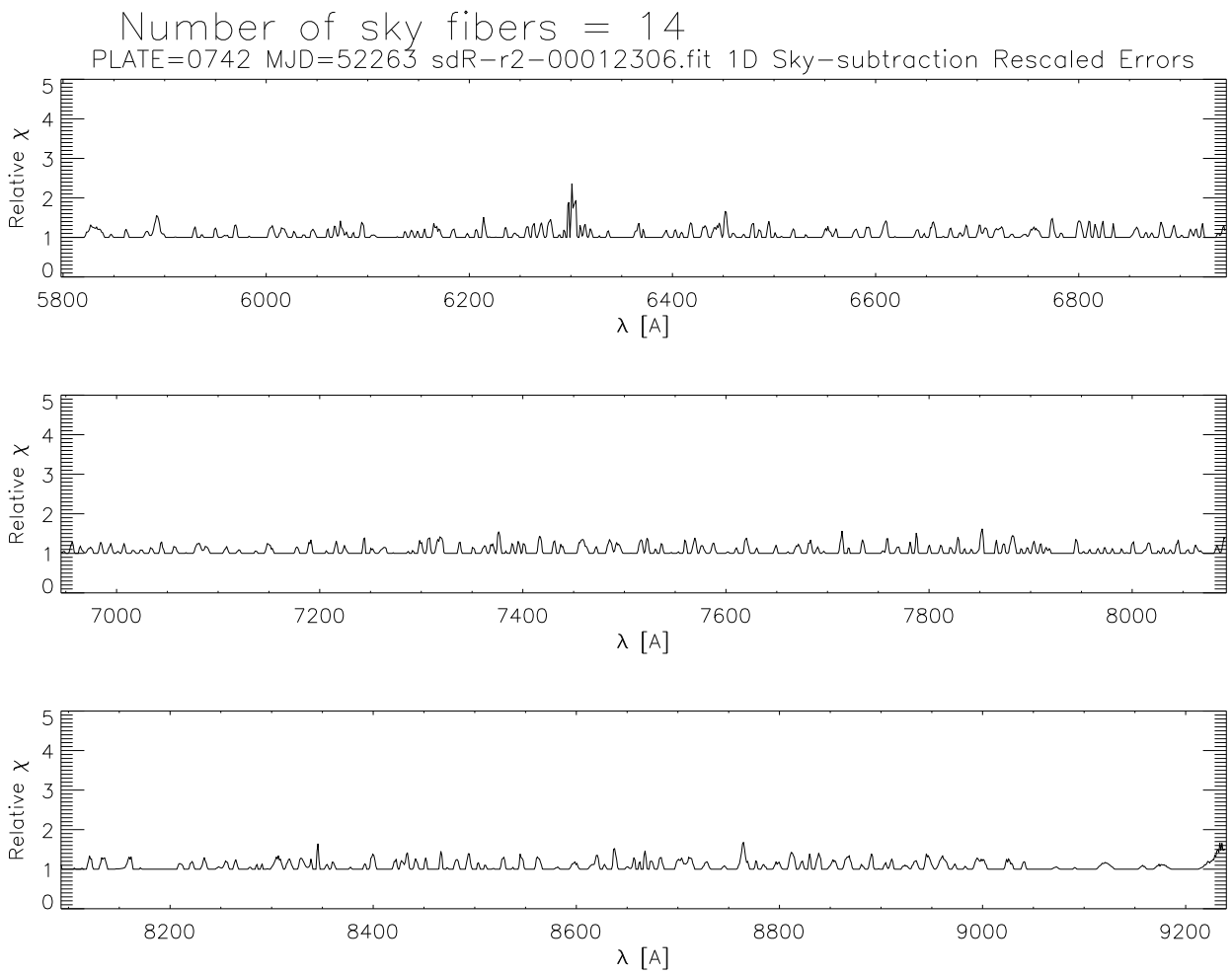

PLATE=0742 MJD=52263 Smooth superflat for sdR-r2-00012306.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

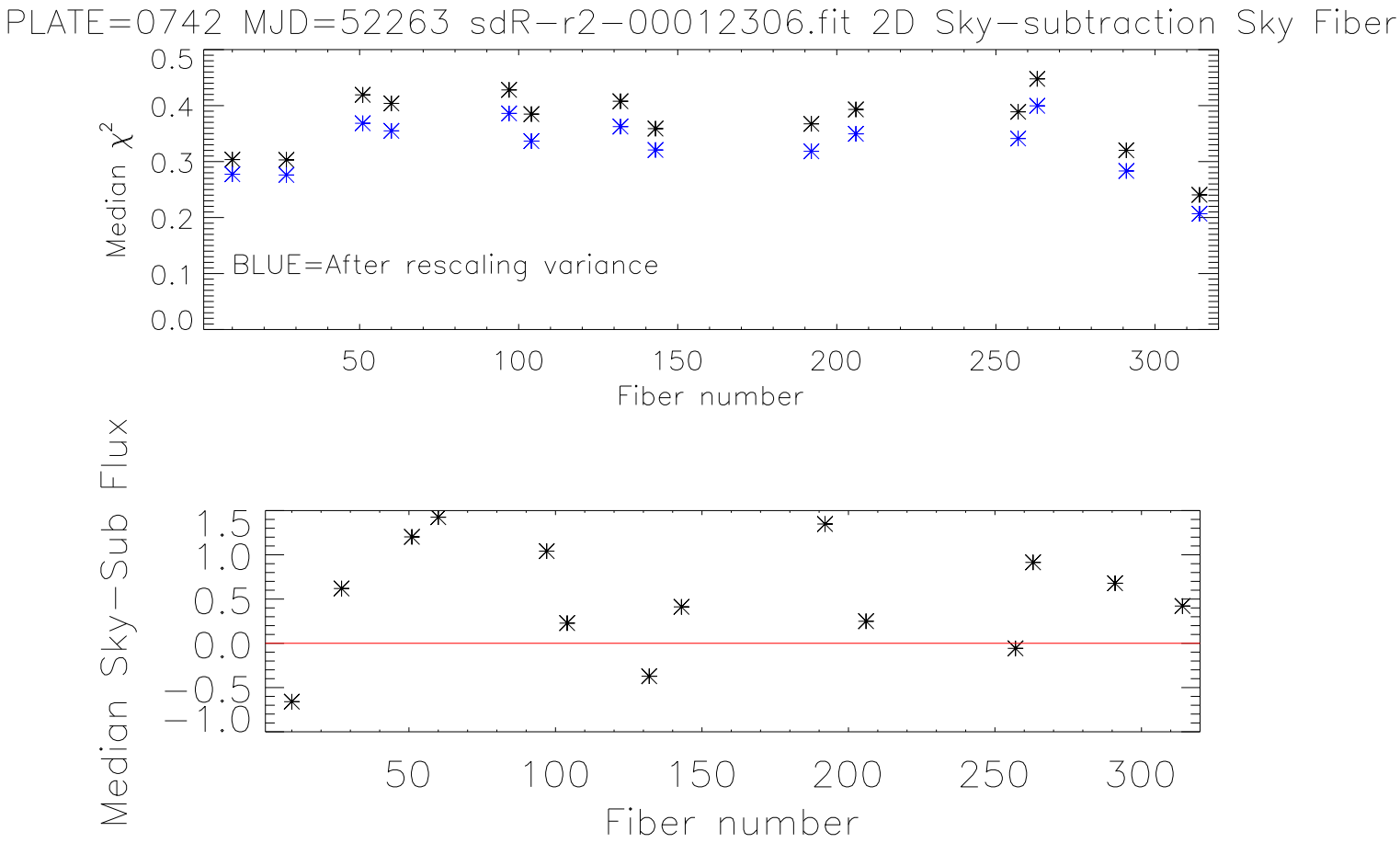
es= −0.0000

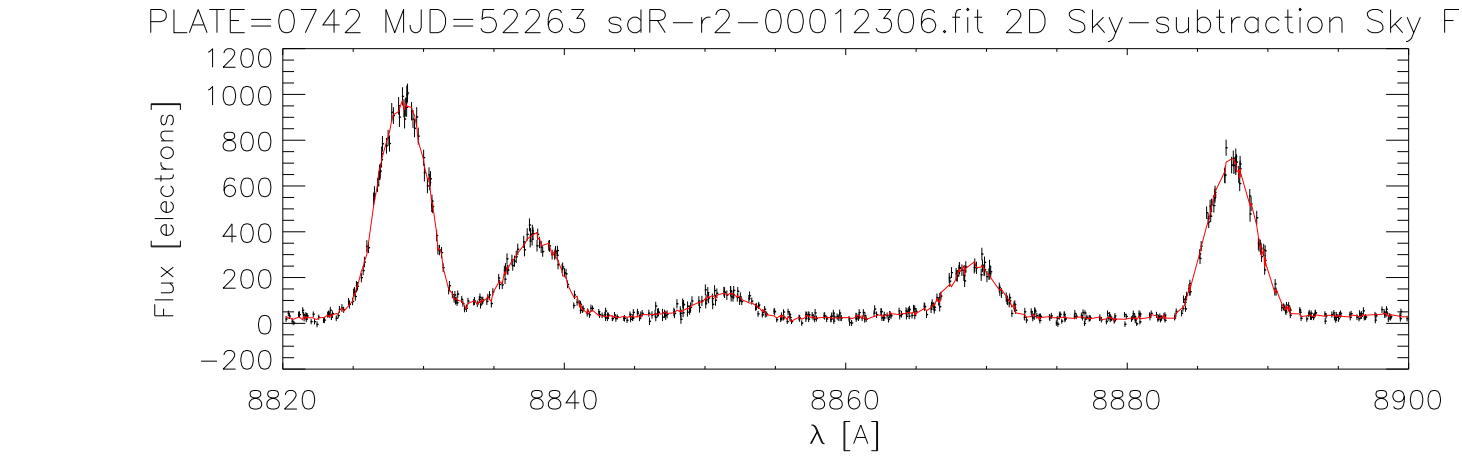

PLATE=0742 MJD=52263 sdR-r2-00012306.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
50
100
150
200
250
300
Fiber number

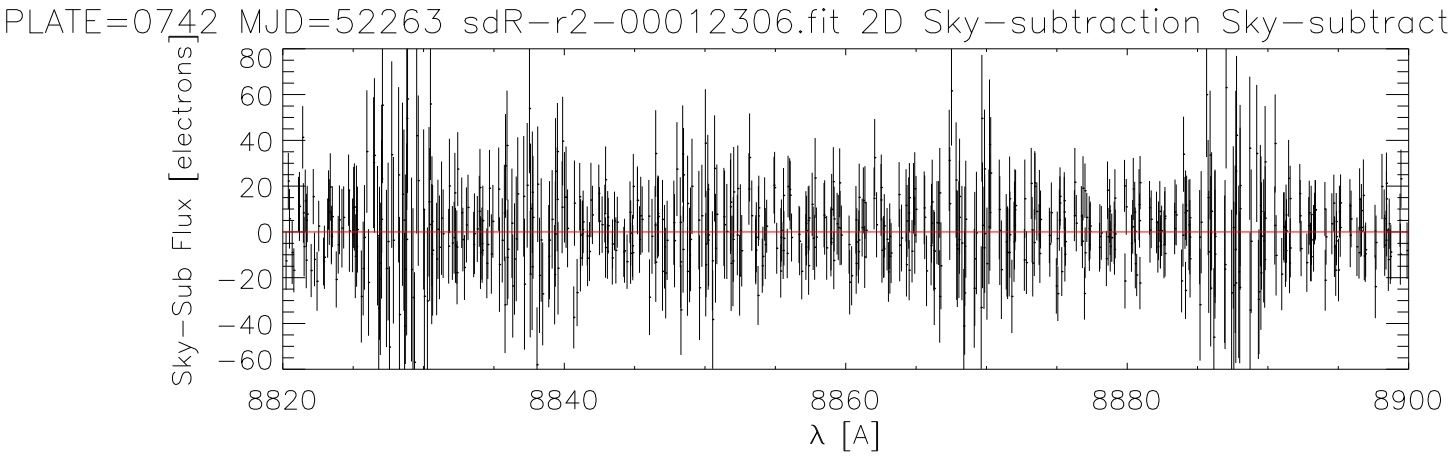

PLATE=0742 MJD=52263 sdR-r2-00012306.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1200
1000
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

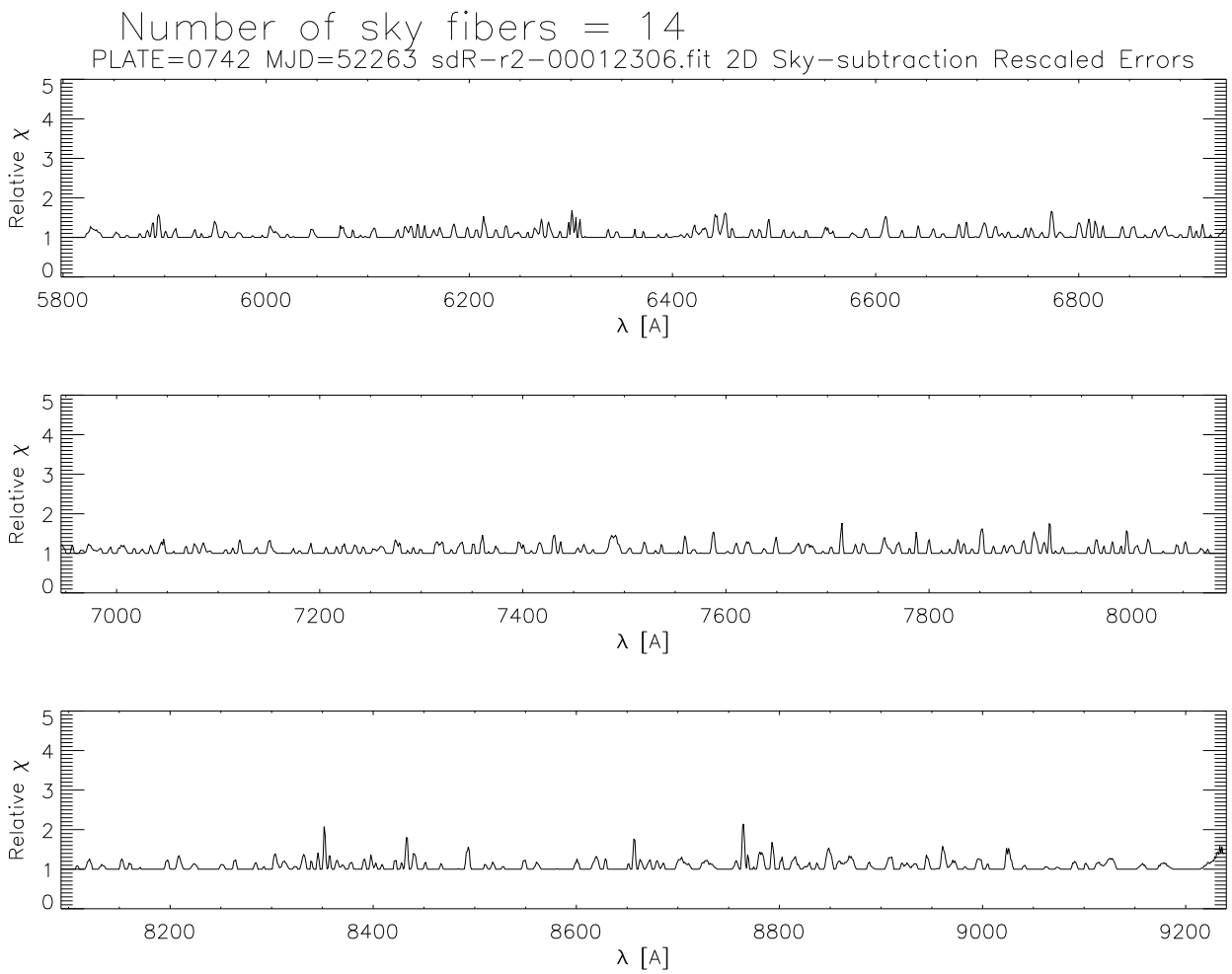

PLATE=0742 MJD=52263 sdR-r2-00012306.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
8820
8840
8860
8880
8900
λ [A]

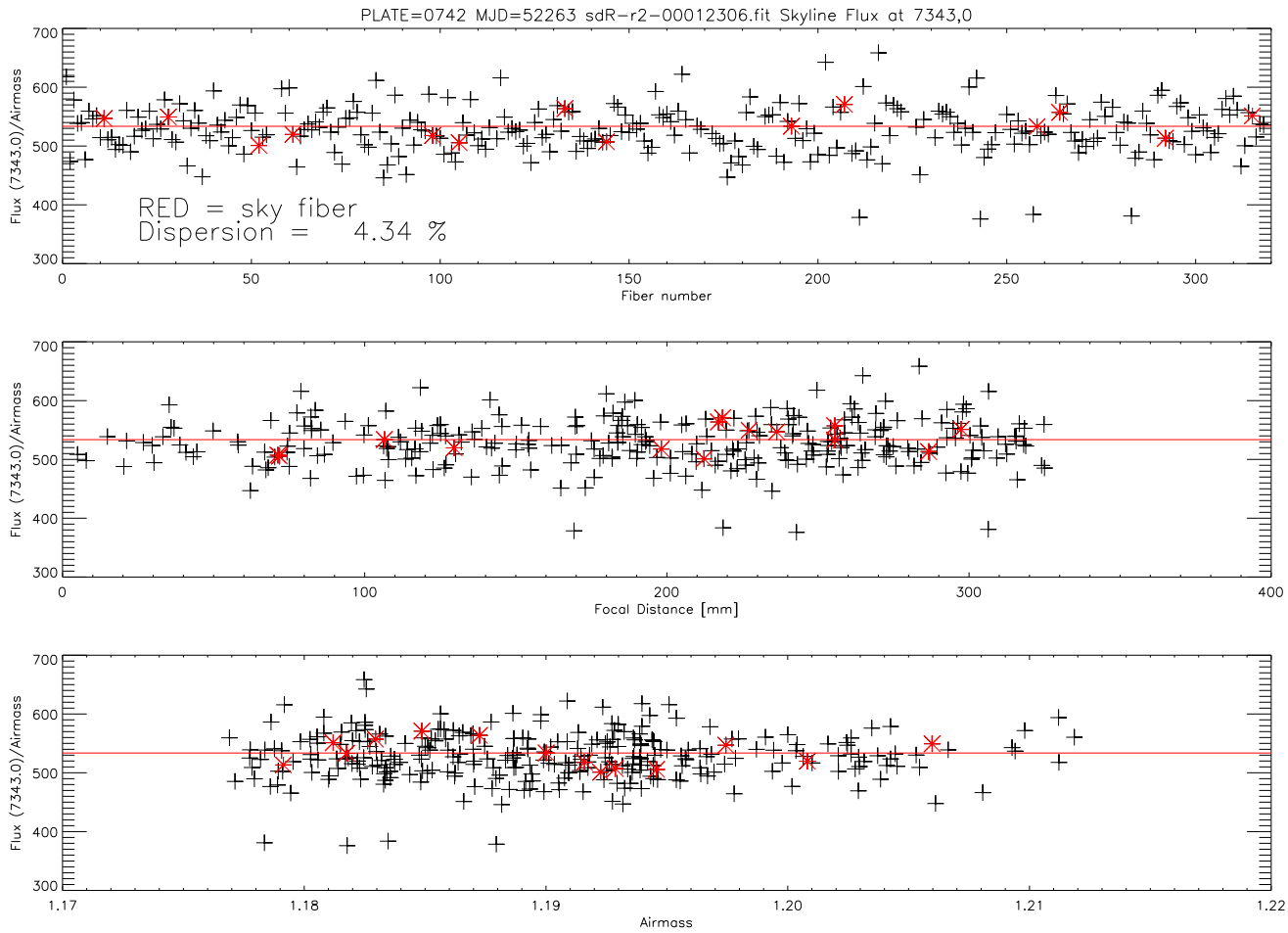

Number of sky fibers = 14
PLATE=0742 MJD=52263 sdR-r2-00012306.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

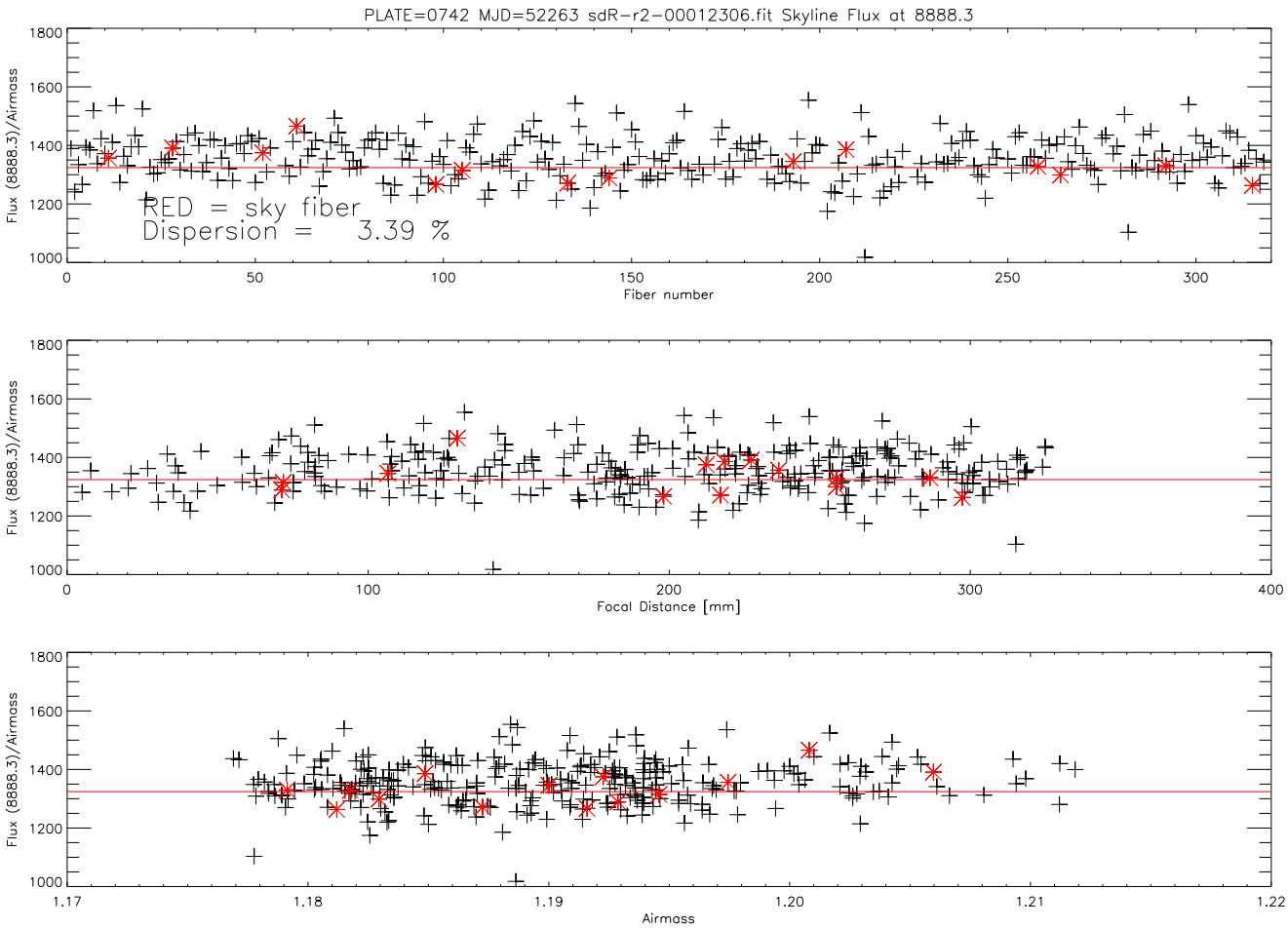

PLATE=0742 MJD=52263 sdR-r2-00012306.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number


PLATE=0742 MJD=52263 sdR-r2-00012306.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1200
1000
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]


PLATE=0742 MJD=52263 sdR-r2-00012306.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
80
60
40
20
0
-20
-40
-60
8820
8840
8860
8880
8900
λ [A]


Number of sky fibers = 14
PLATE=0742 MJD=52263 sdR-r2-00012306.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=0742 MJD=52263 sdR-r2-00012306.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 4.34 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass


PLATE=0742 MJD=52263 sdR-r2-00012306.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 3.39 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass