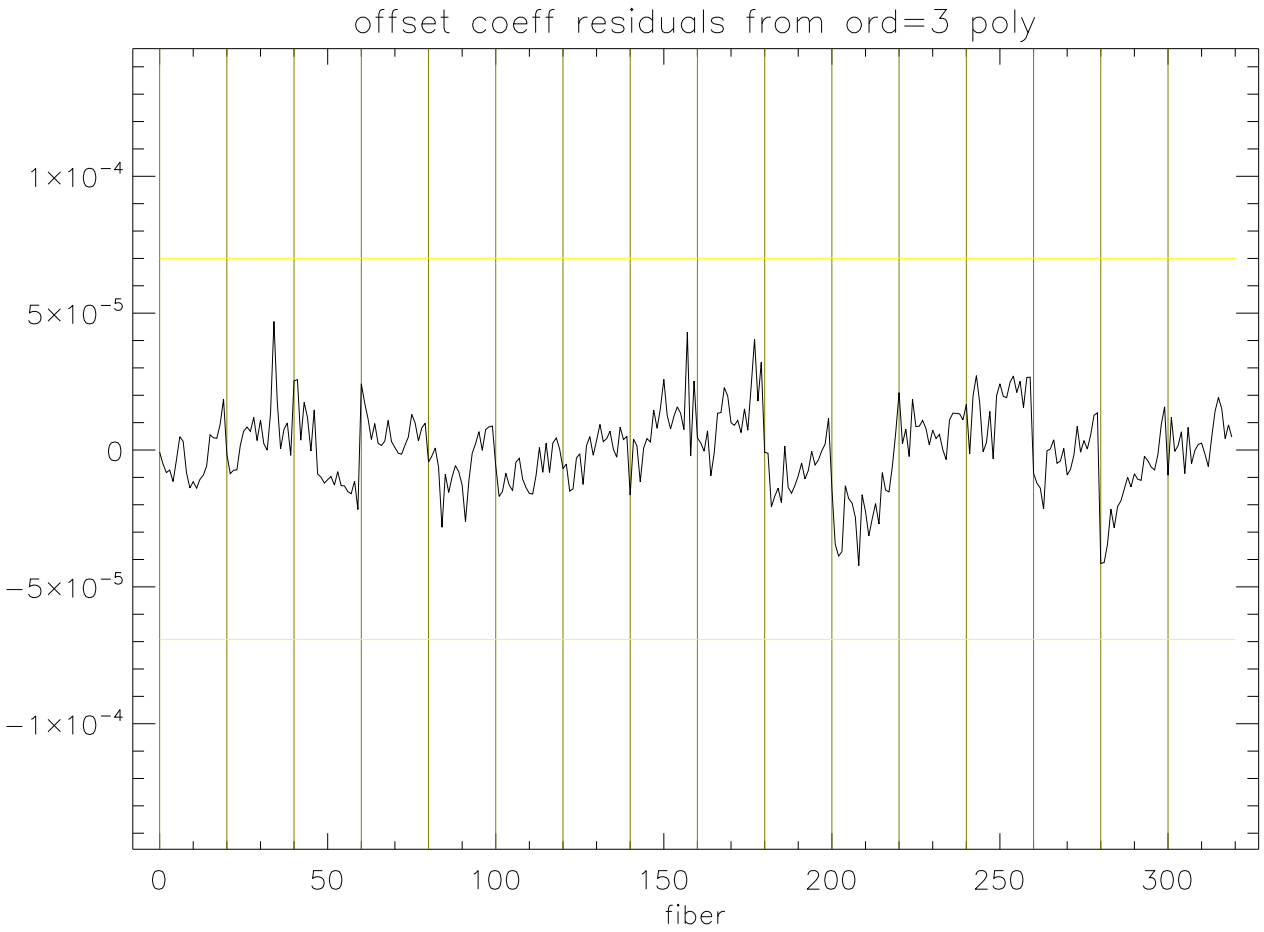
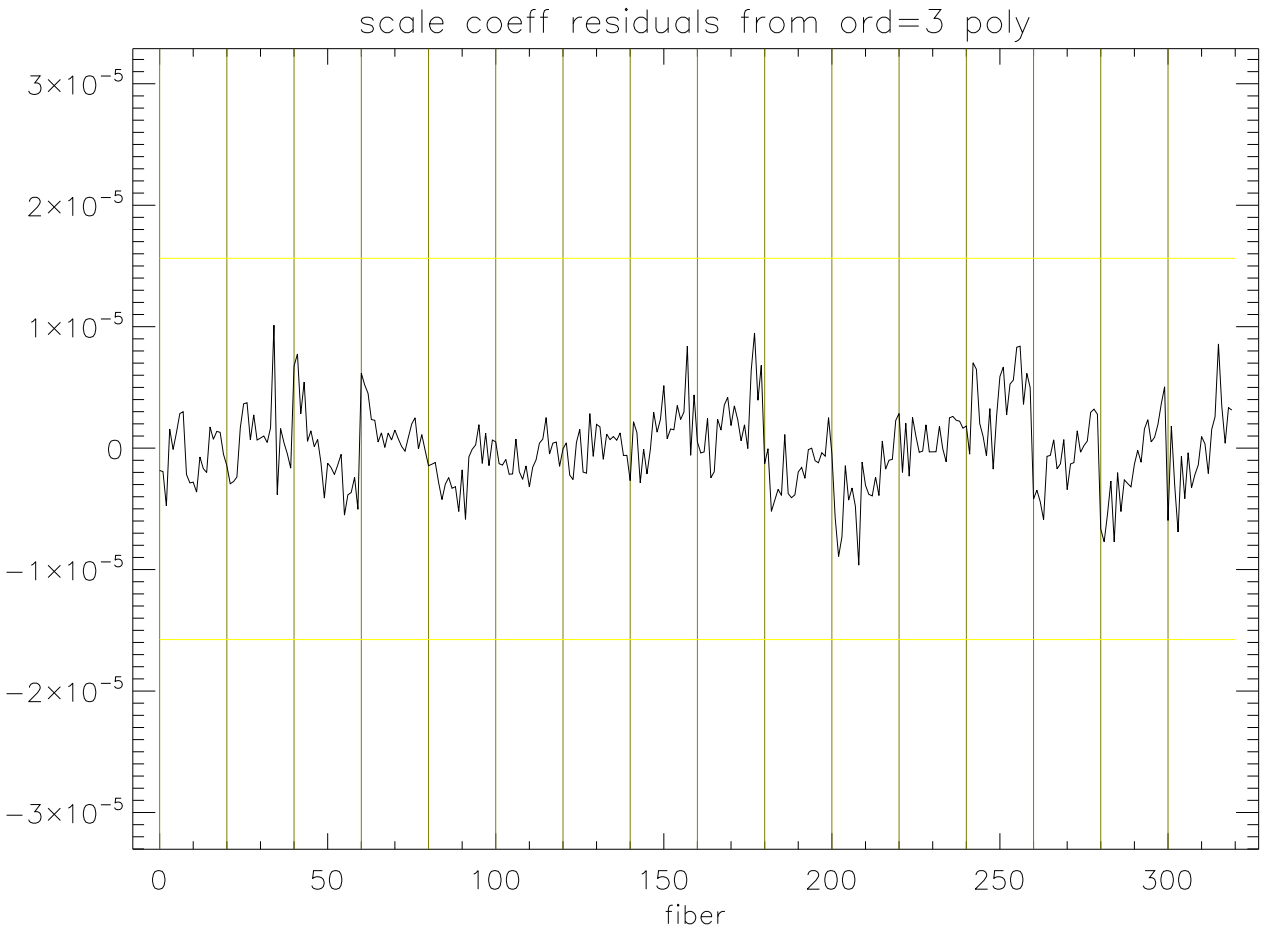
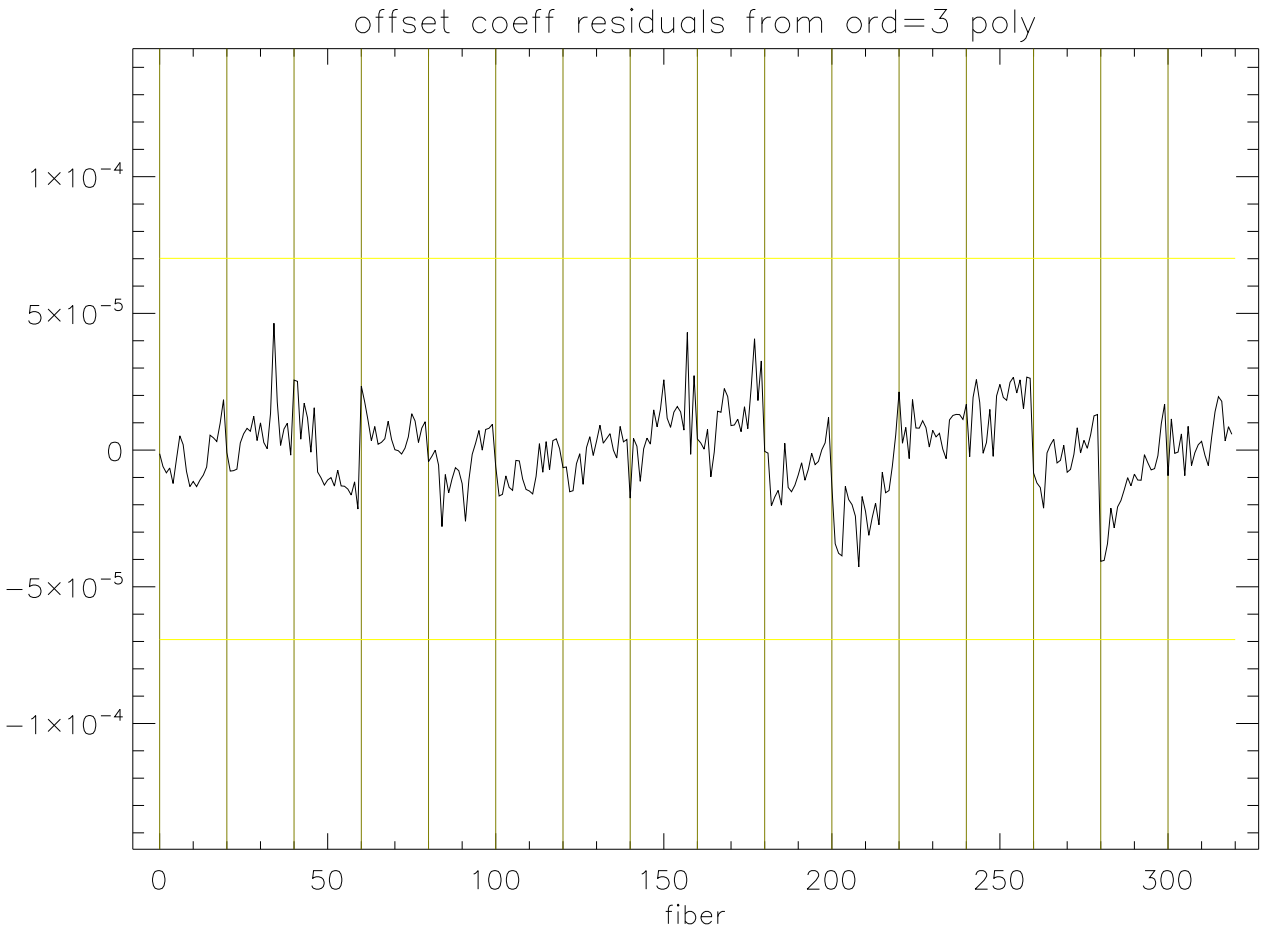
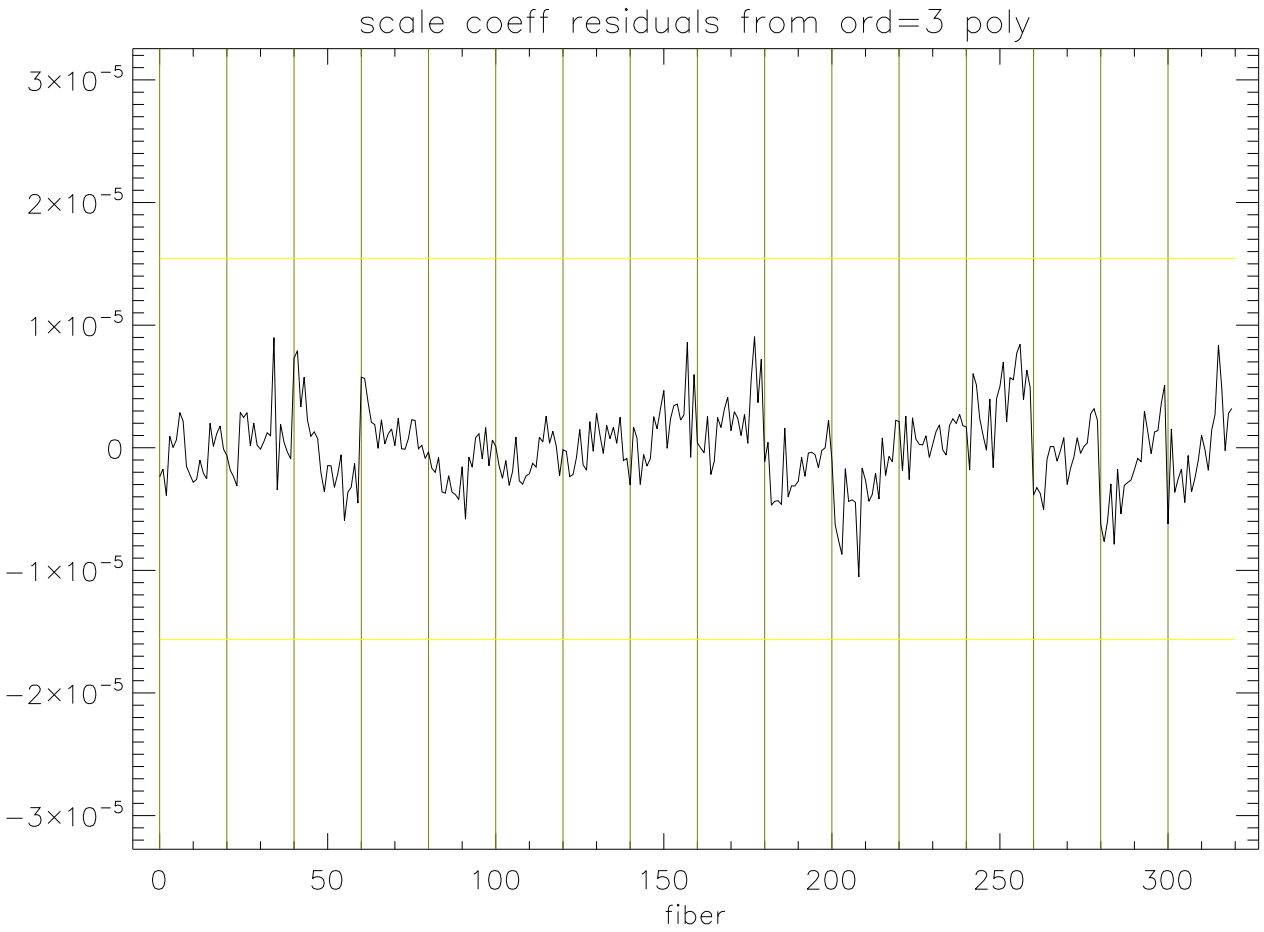
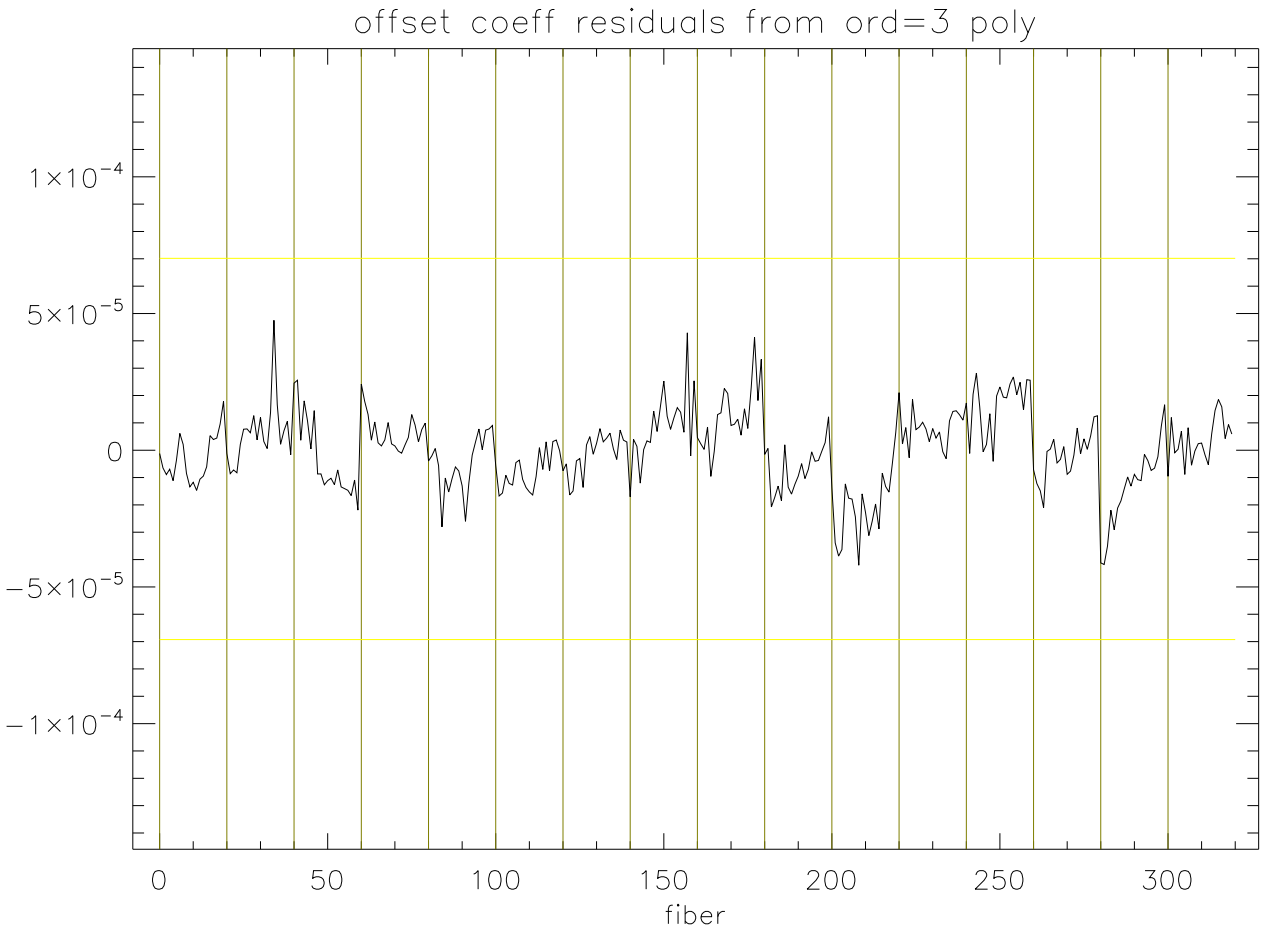
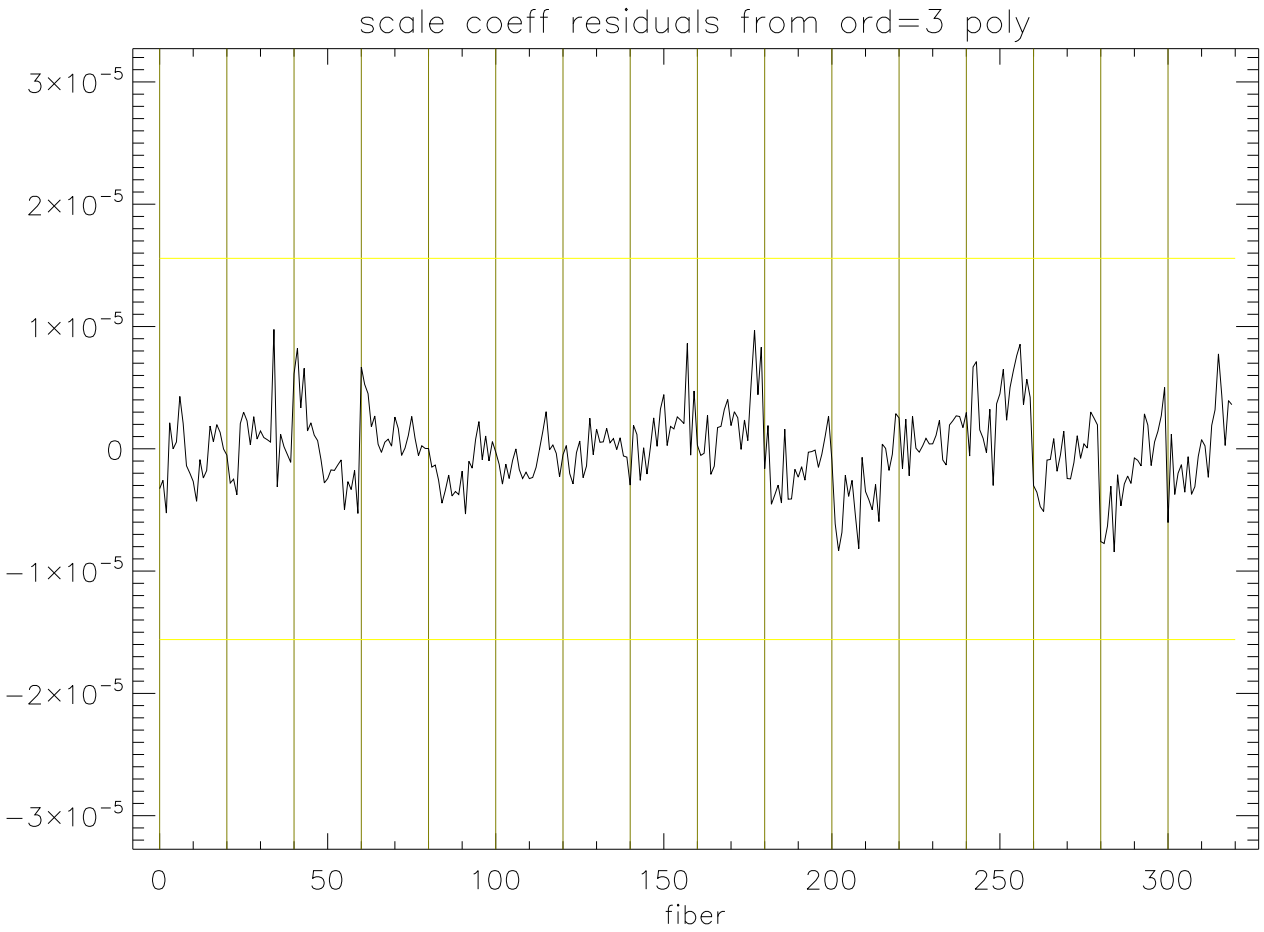

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

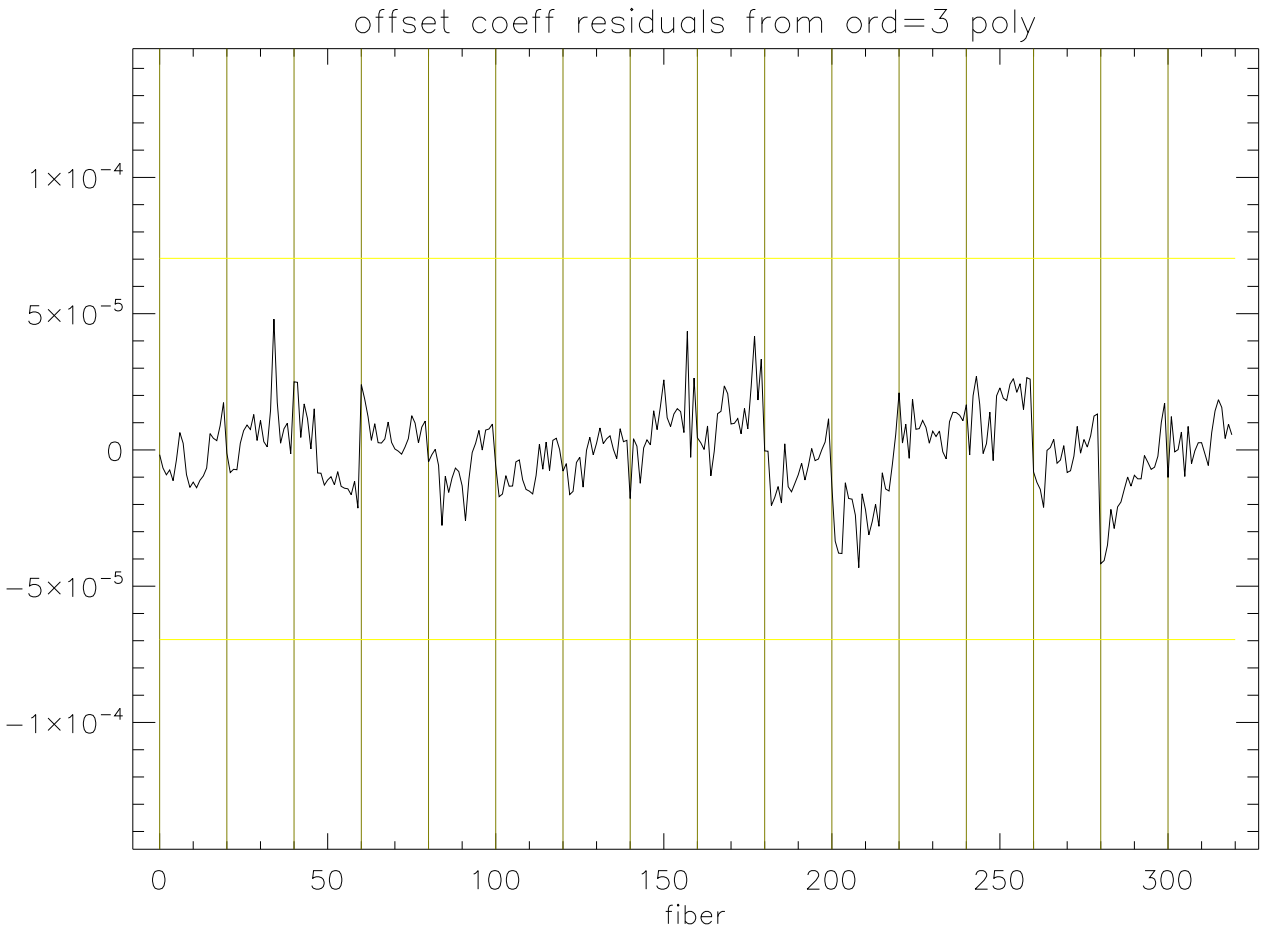

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

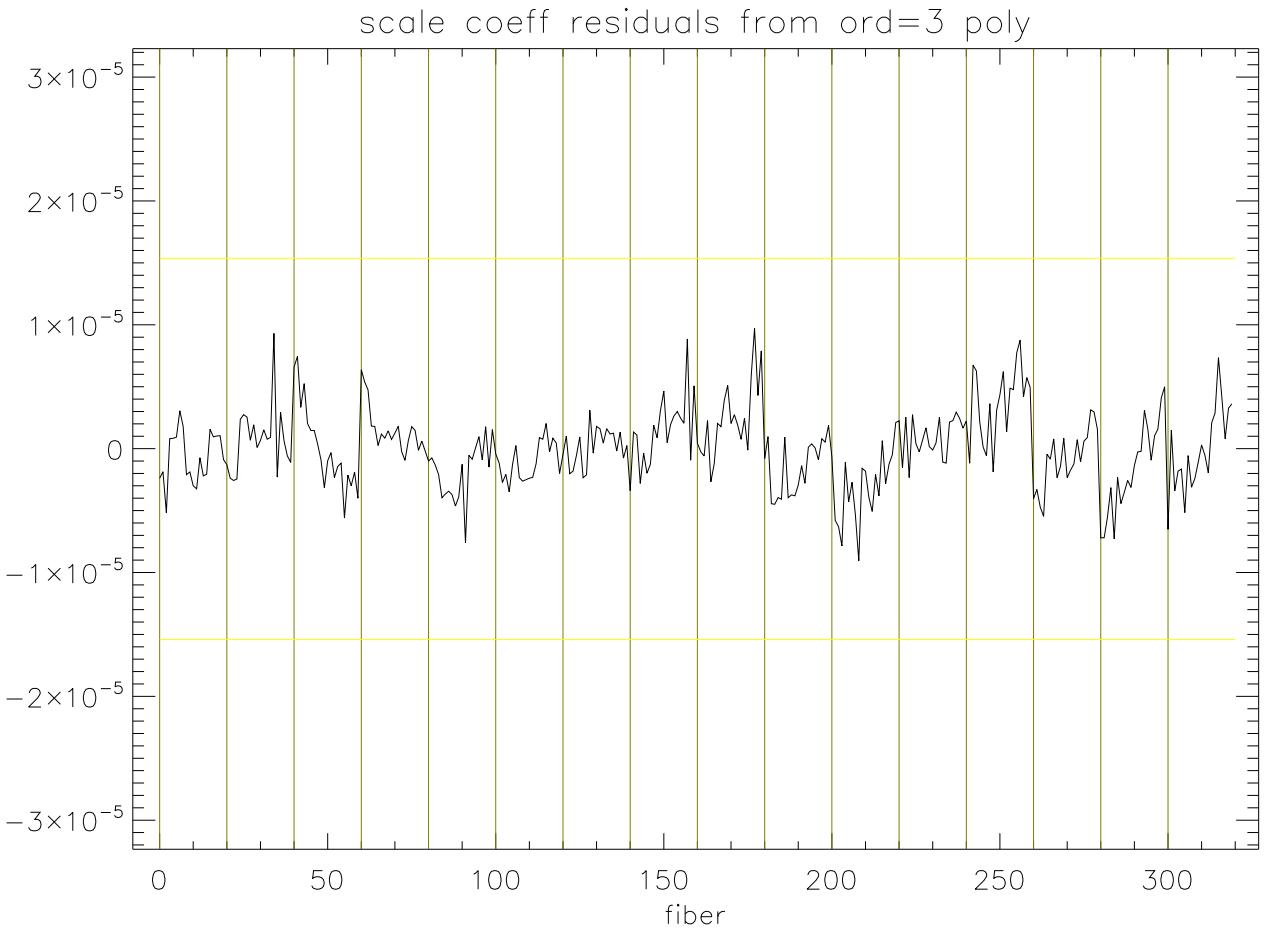

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

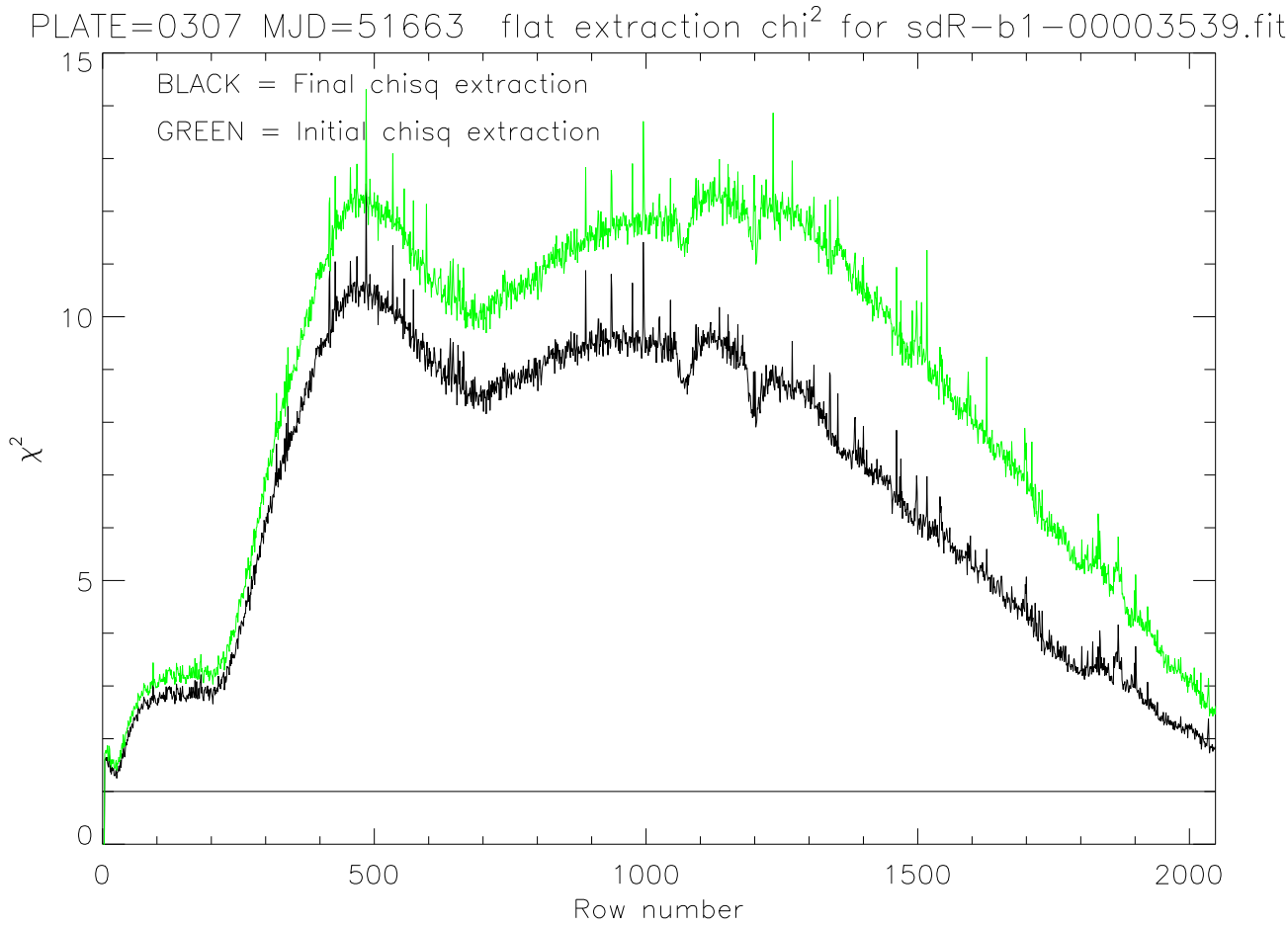

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

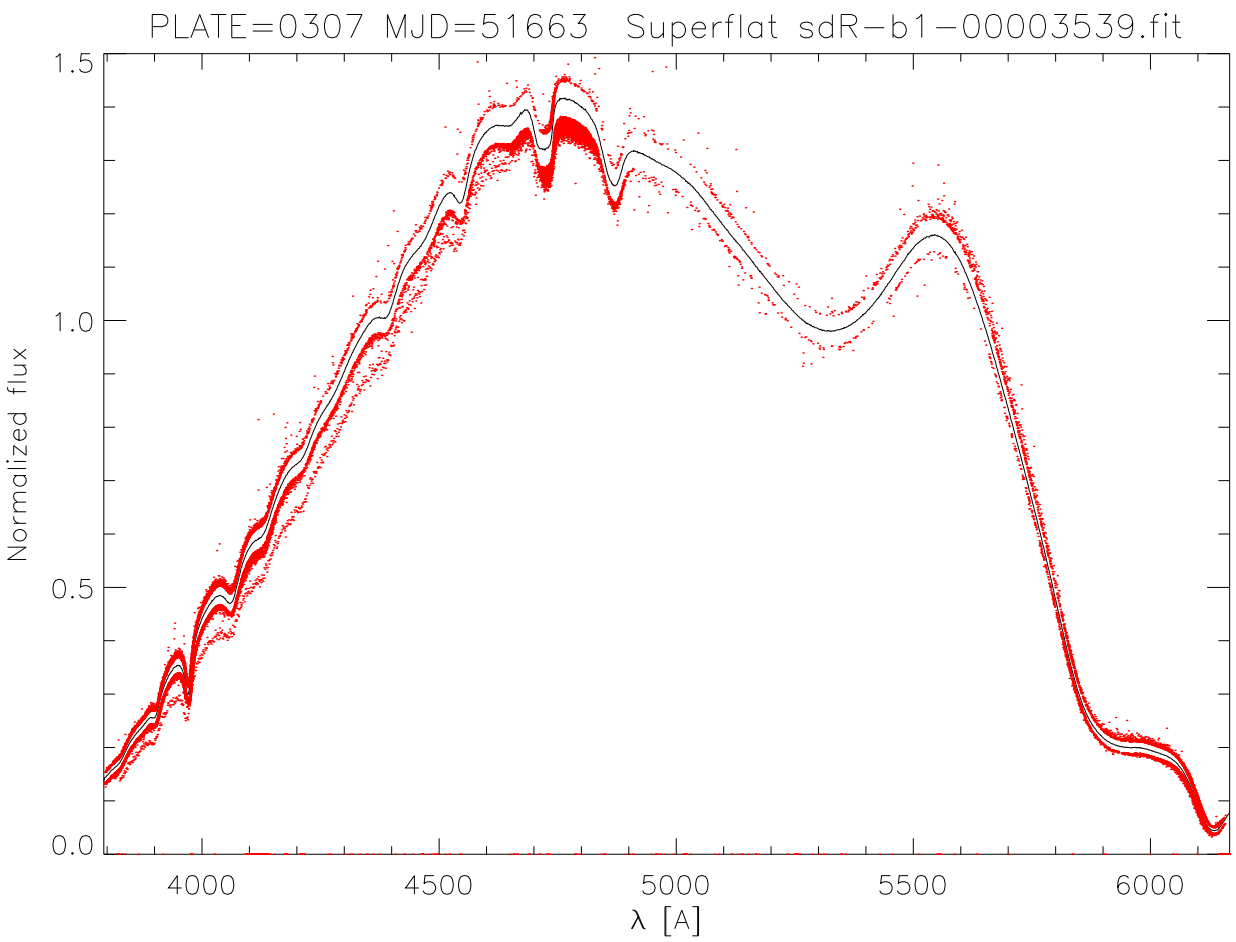

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

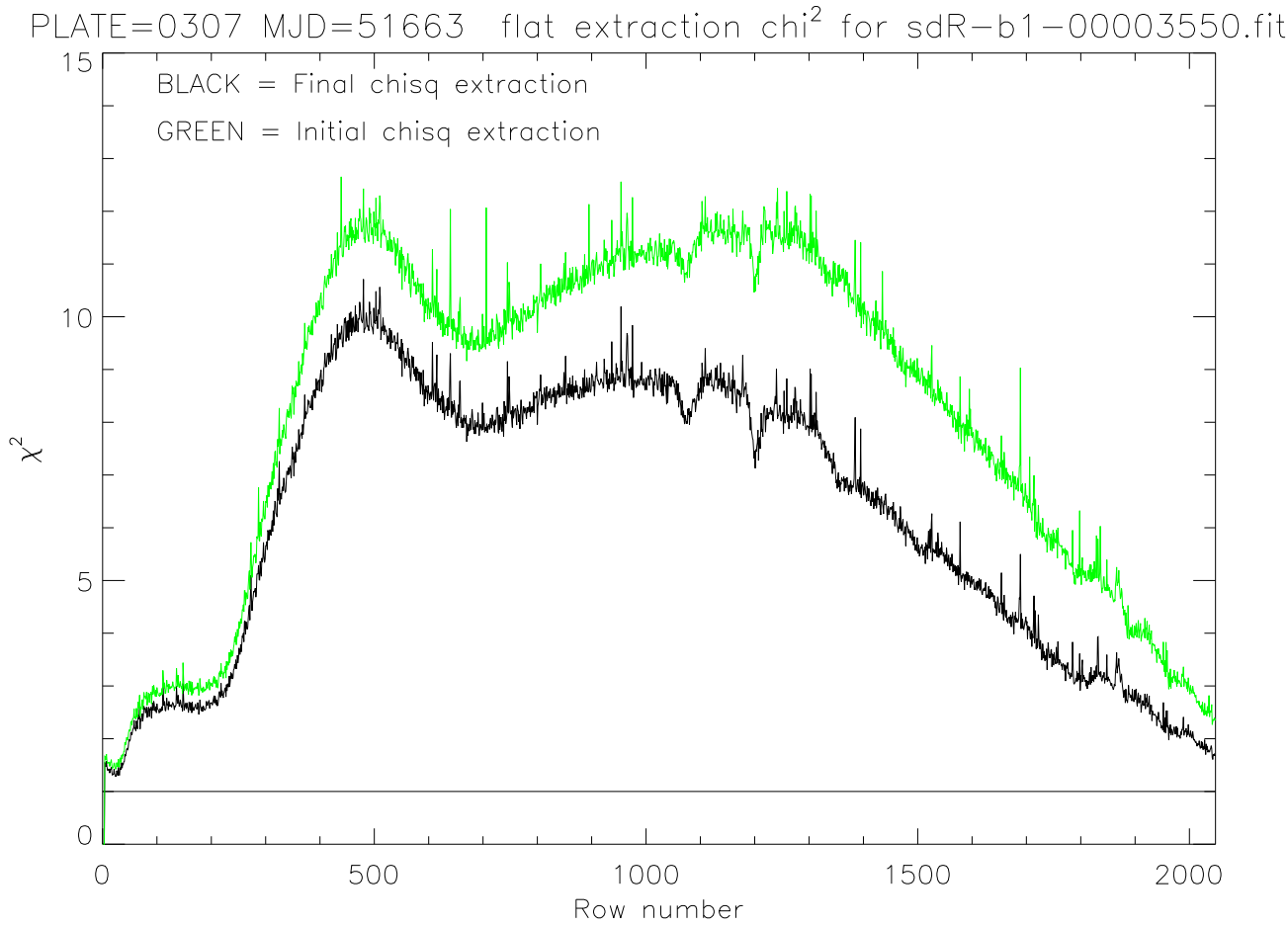

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

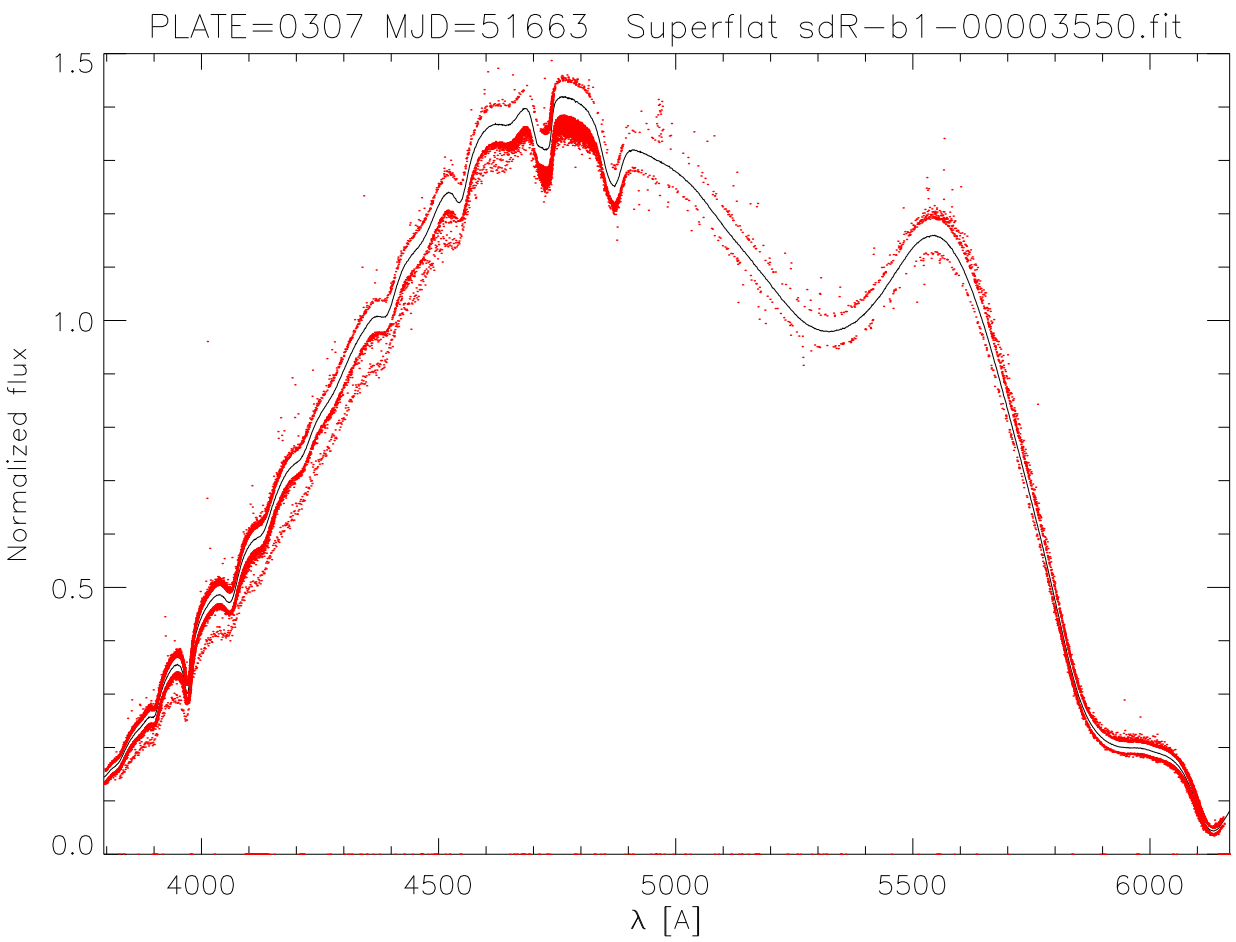

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

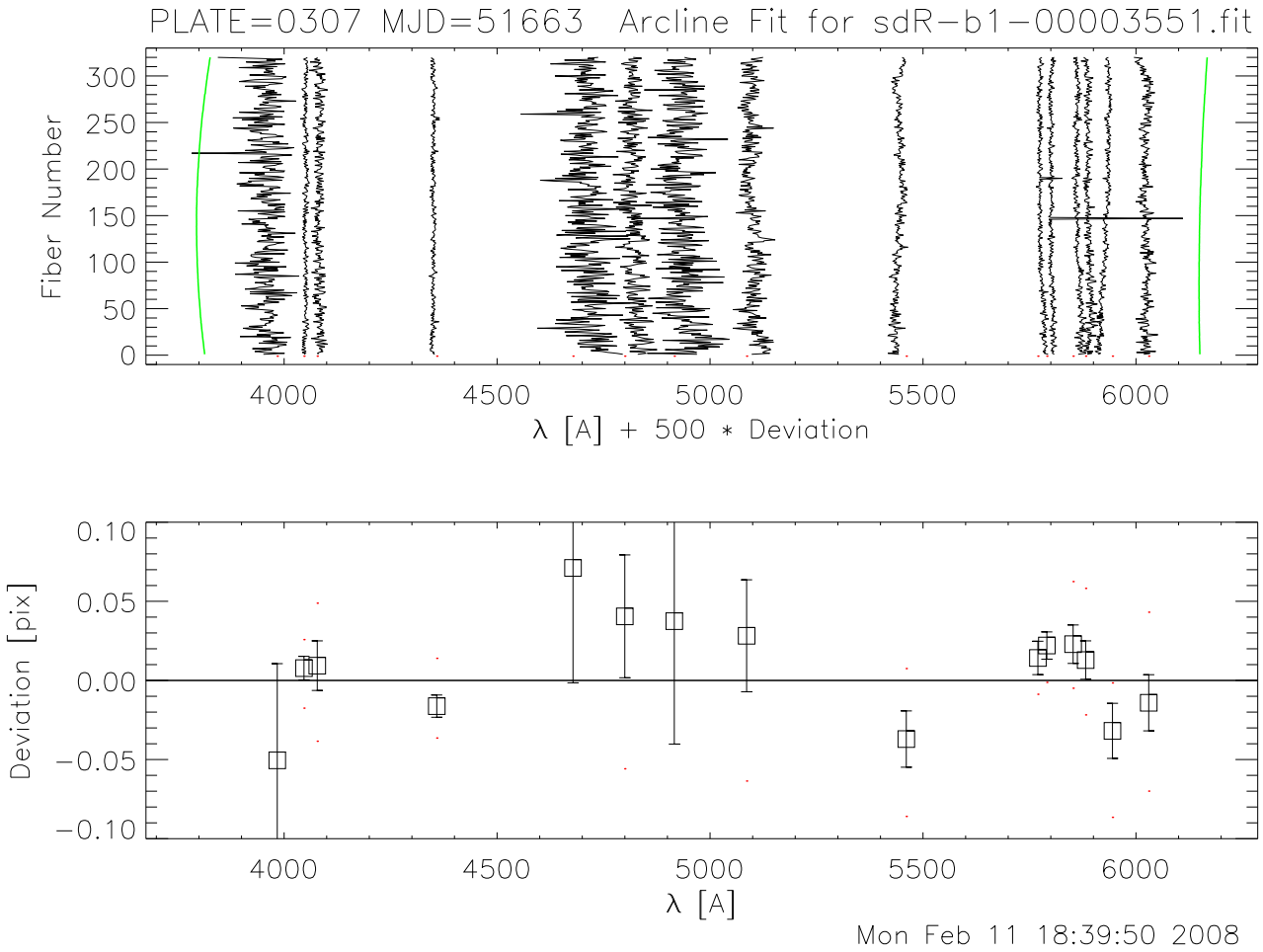

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

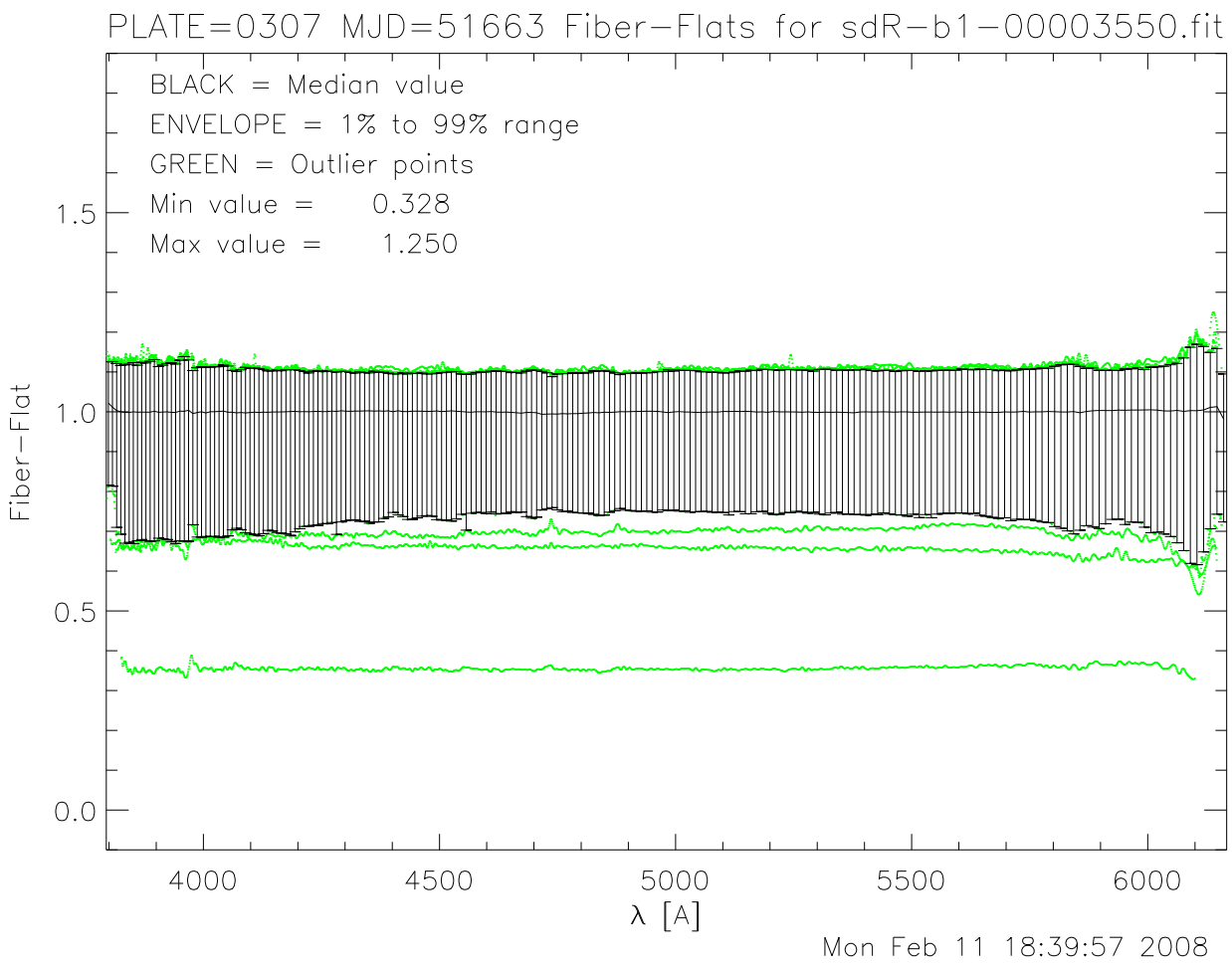

PLATE=0307 MJD=51663 flat extraction chi^2 for sdR-b1-00003539.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
5
10
15
0
500
1000
1500
2000

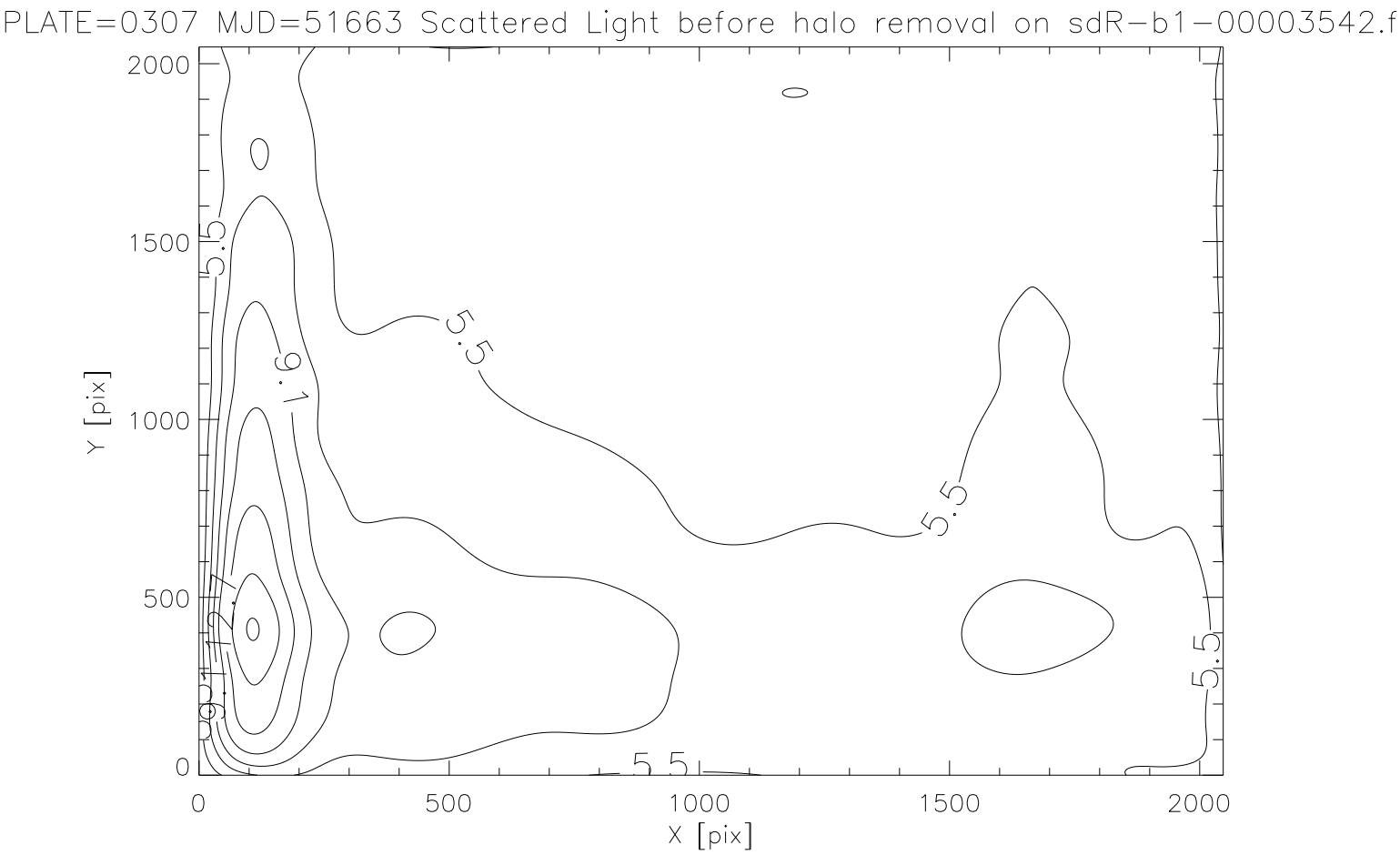

PLATE=0307 MJD=51663 Superflat sdR-b1-00003539.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

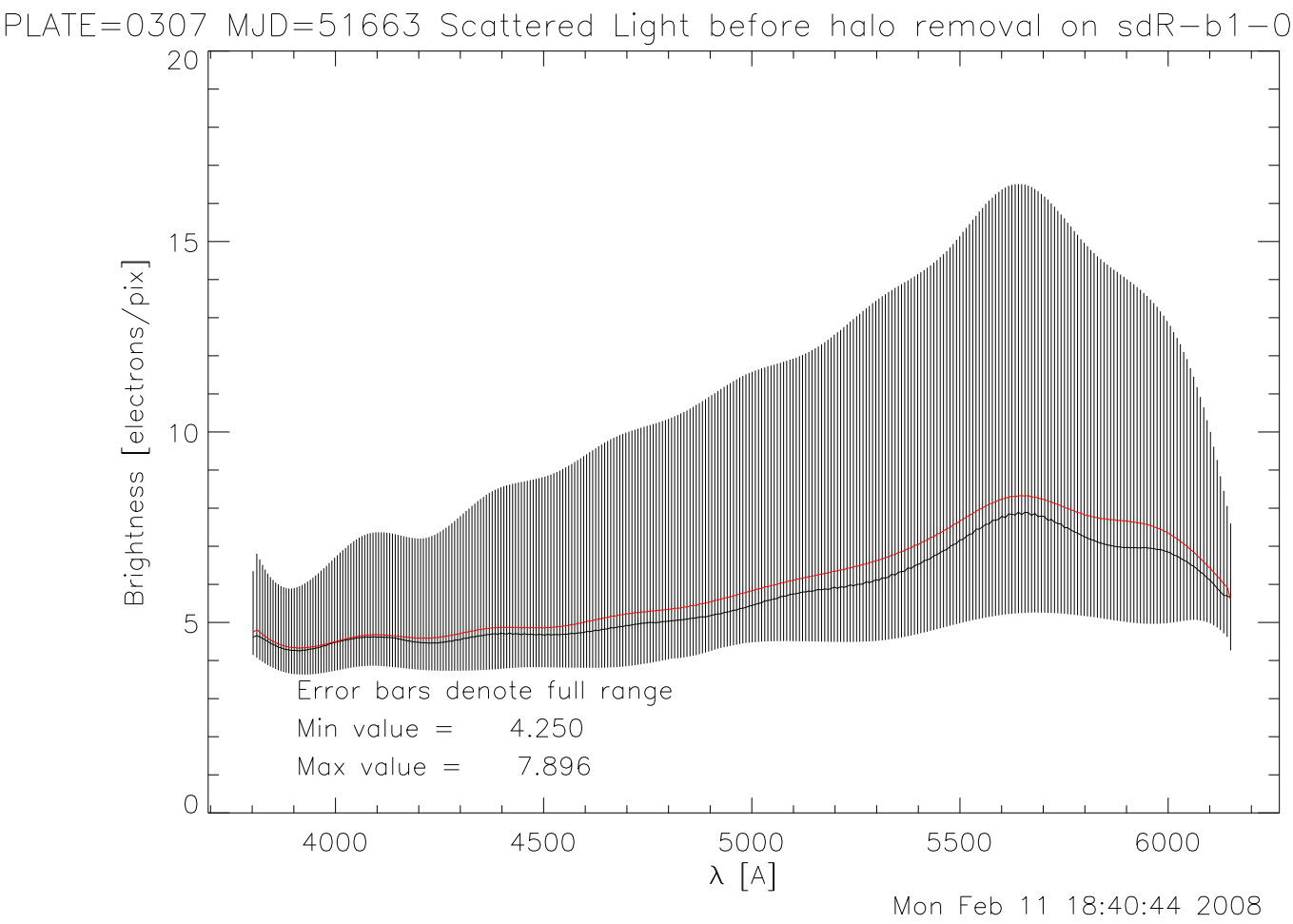

PLATE=0307 MJD=51663 flat extraction chi^2 for sdR−b1−00003550.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
5
10
15
0
500
1000
1500
2000

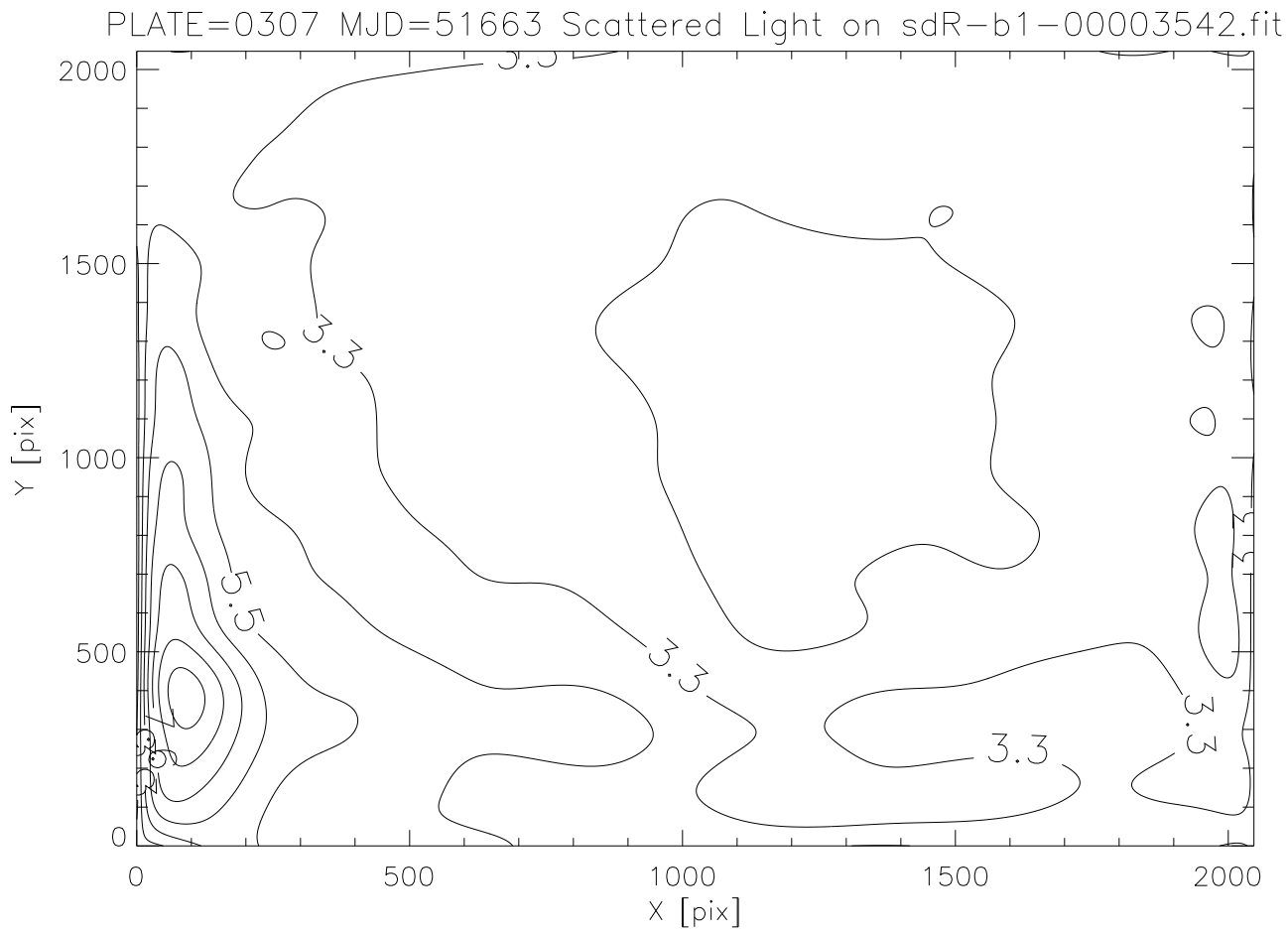

PLATE=0307 MJD=51663 Superflat sdR-b1-00003550.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

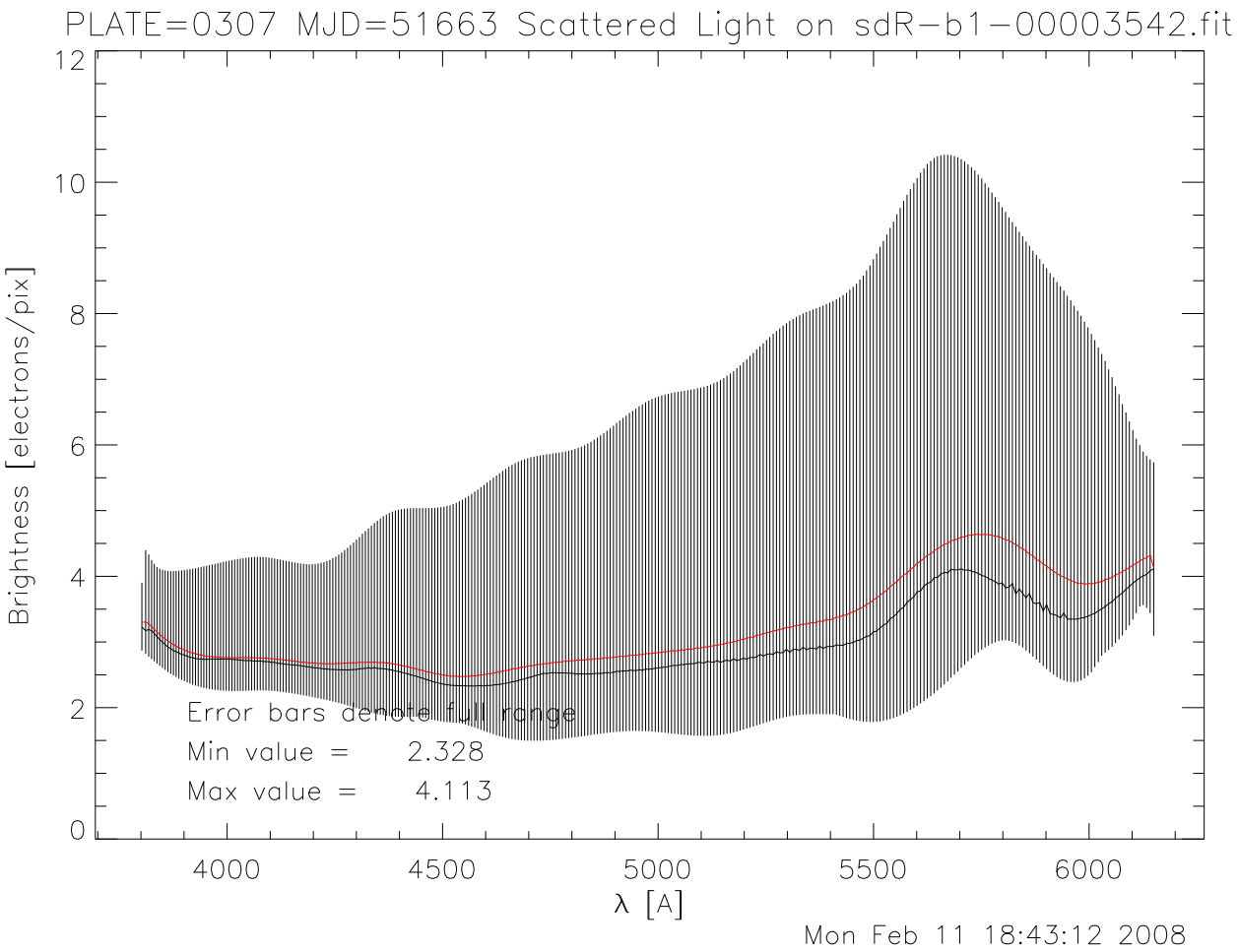

PLATE=0307 MJD=51663 Arcline Fit for sdR-b1-00003551.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 18:39:50 2008

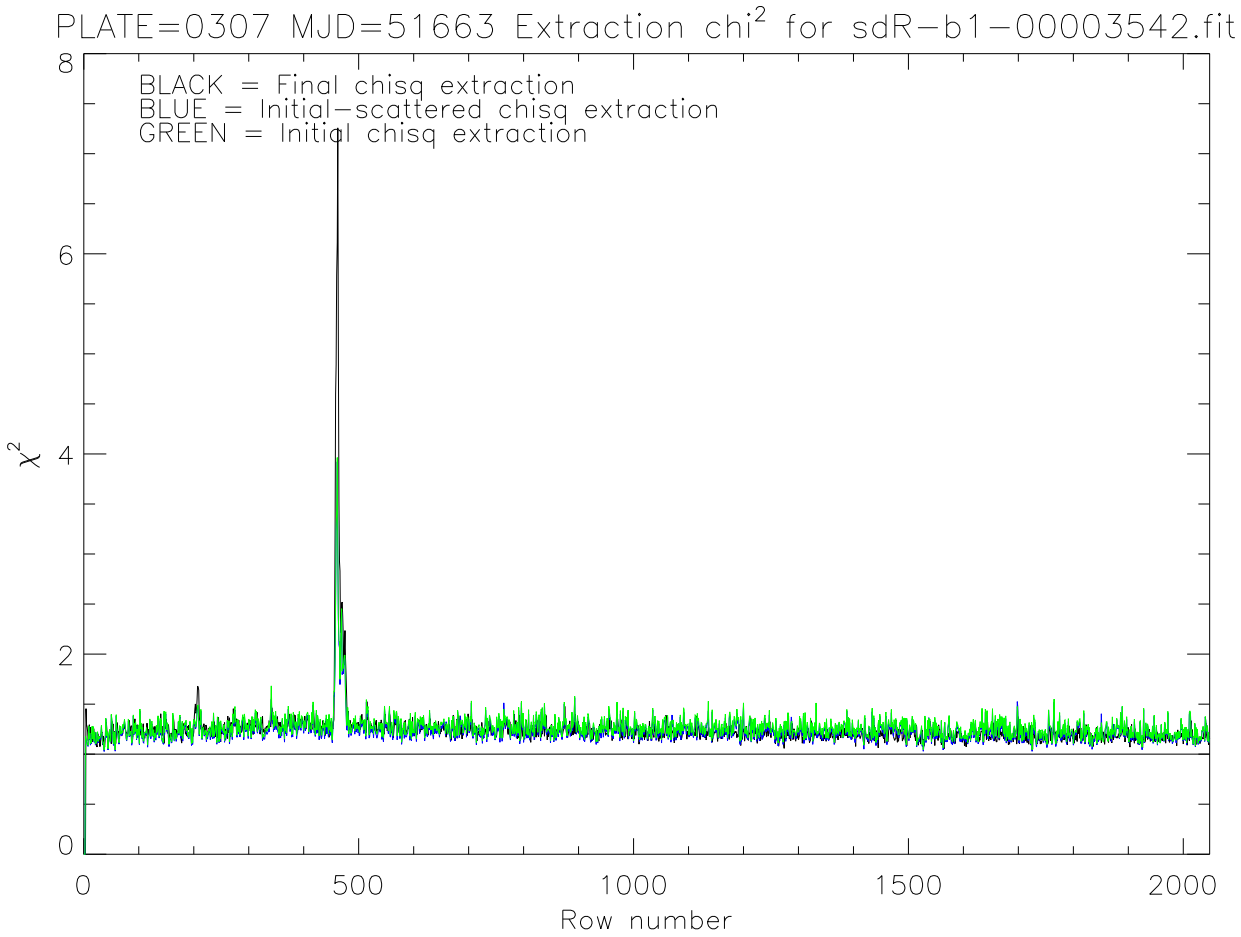

PLATE=0307 MJD=51663 Fiber-Flats for sdR-b1-00003550.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.328
Max value = 1.250
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 18:39:57 2008

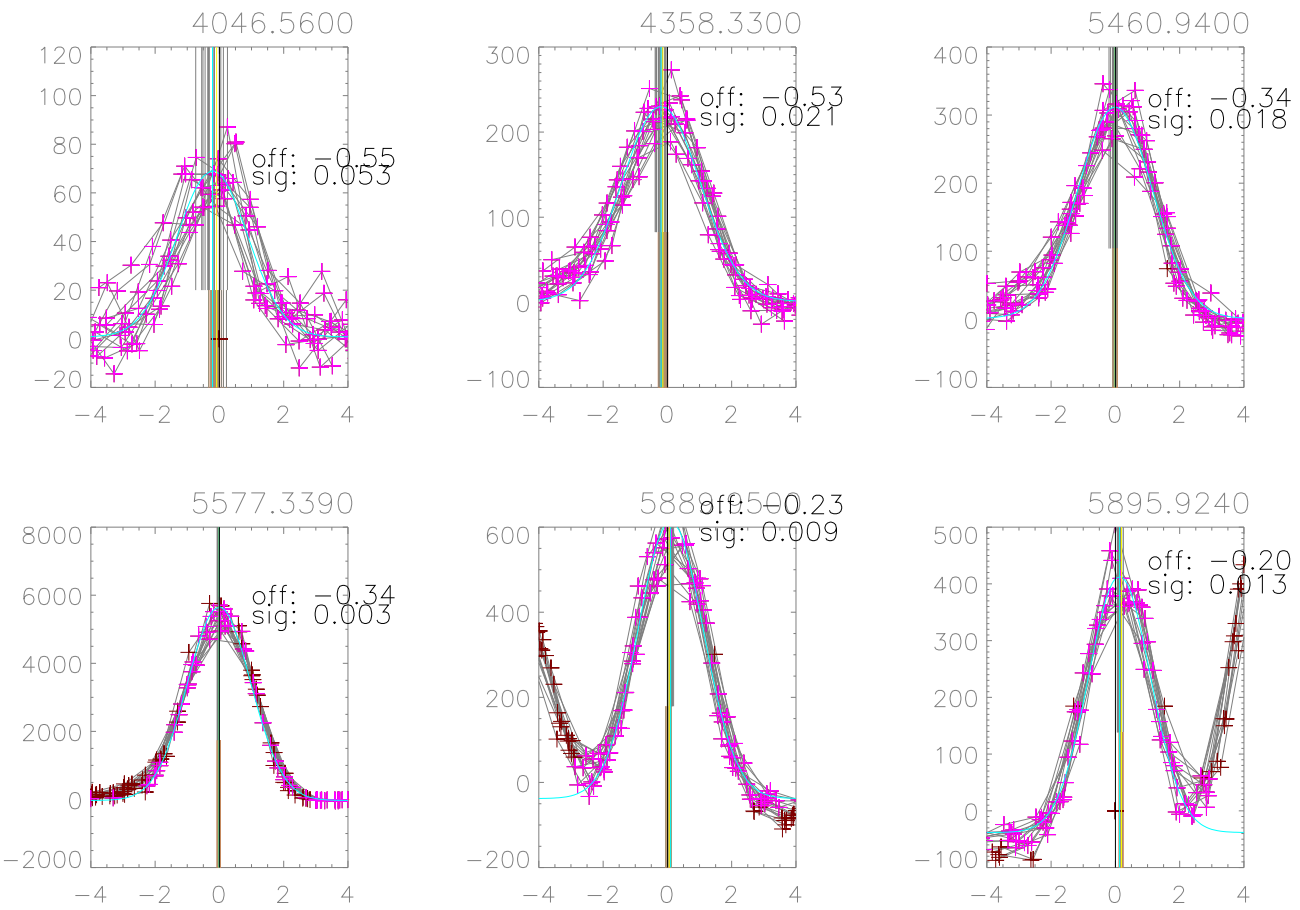

PLATE=0307 MJD=51663 Scattered Light before halo removal on sdR−b1−00003542.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
5.5
5.5
5.5
5.5
5.5
5.5
5.5
5.5
5.5

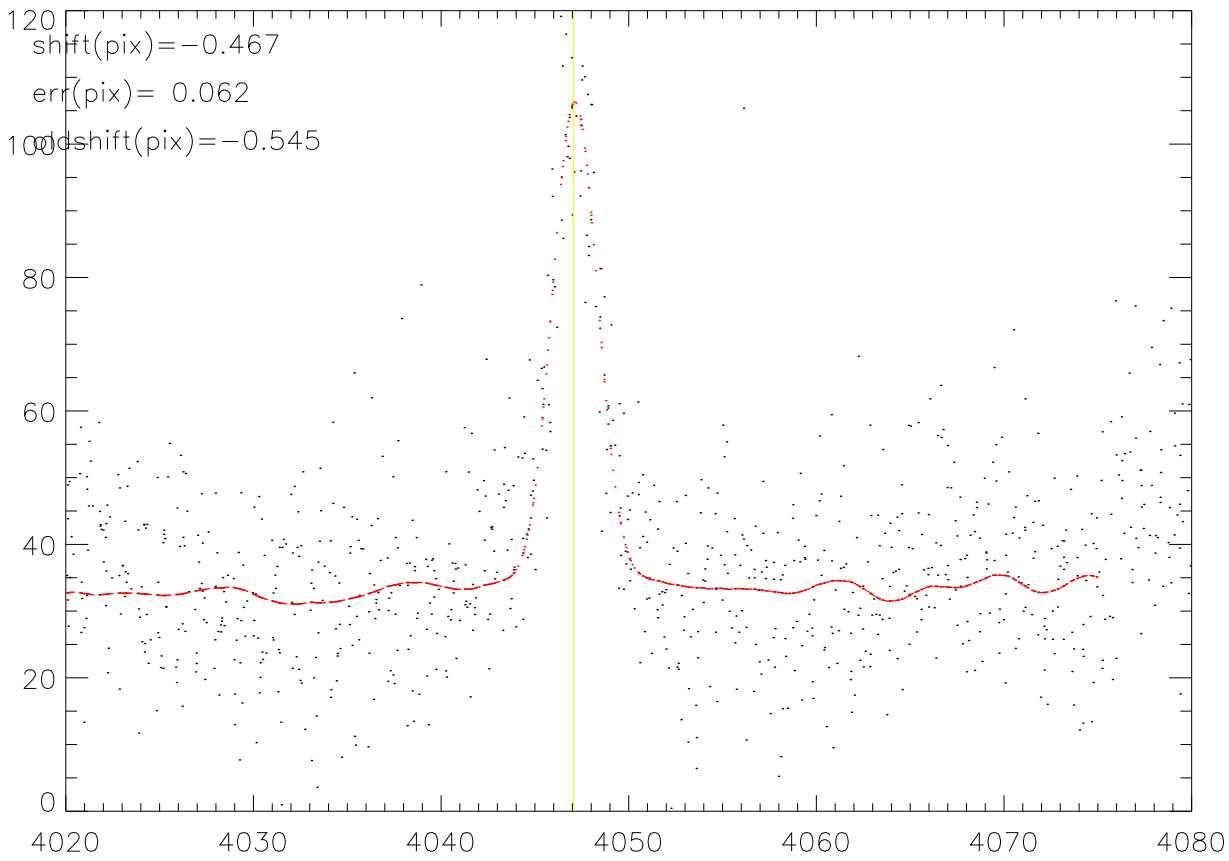

PLATE=0307 MJD=51663 Scattered Light before halo removal on sdR-b1-00003542.f
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 4.250
Max value = 7.896
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 18:40:44 2008

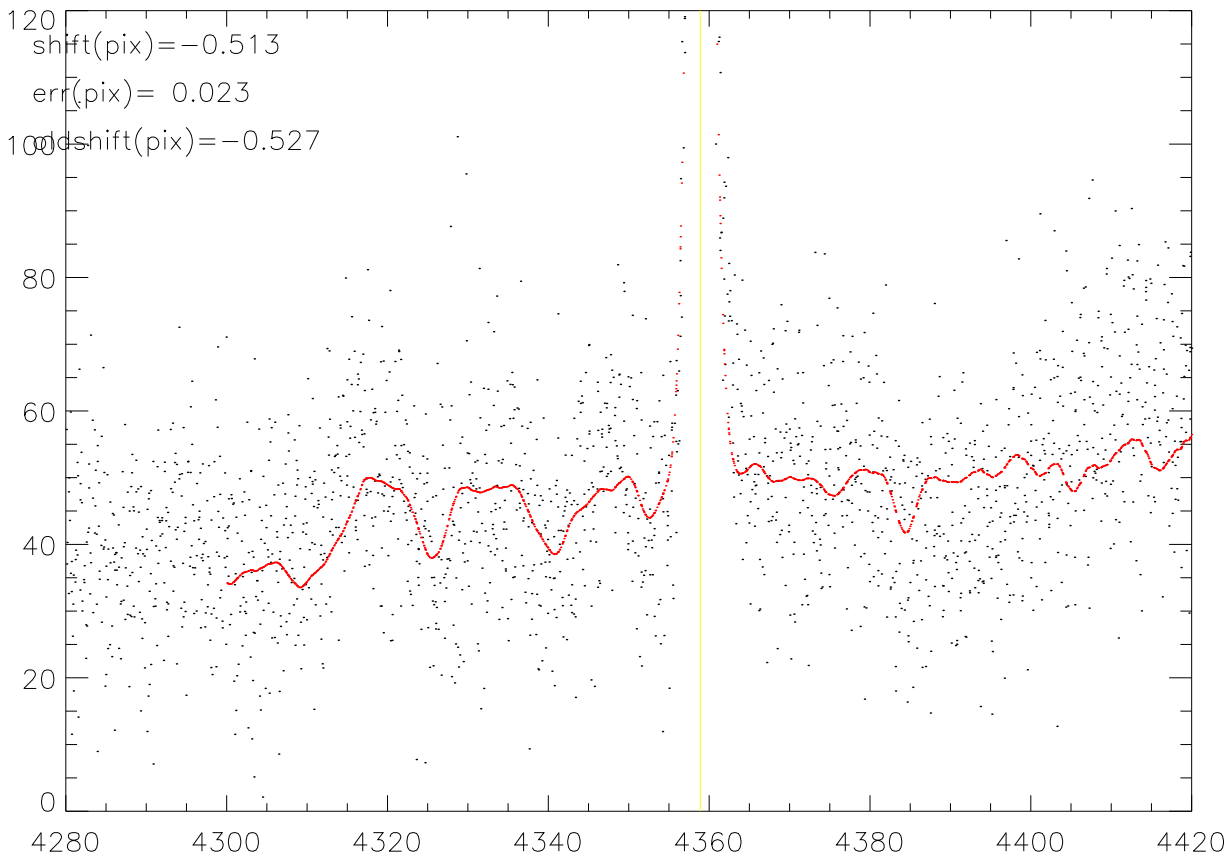

PLATE=0307 MJD=51663 Scattered Light on sdR-b1-00003542.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
3.3
5.5
0

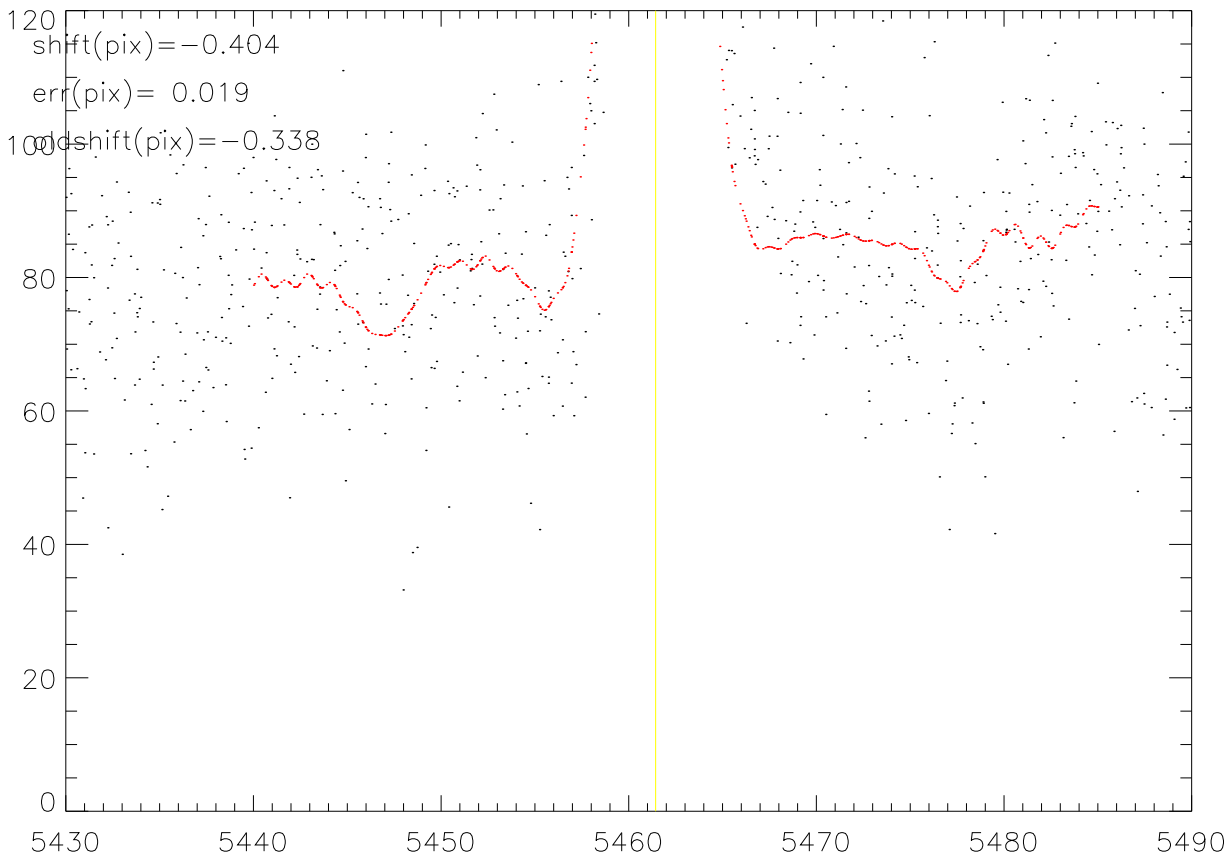

PLATE=0307 MJD=51663 Scattered Light on sdR-b1-00003542.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 2.328
Max value = 4.113
Mon Feb 11 18:43:12 2008

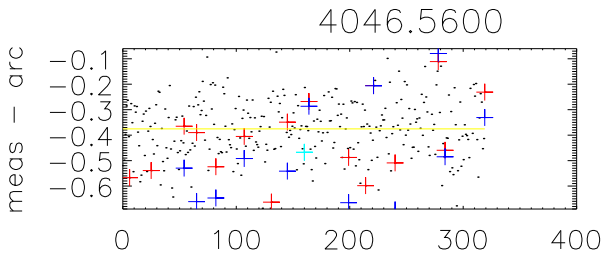

PLATE=0307 MJD=51663 Extraction chi^2 for sdR-b1-00003542.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

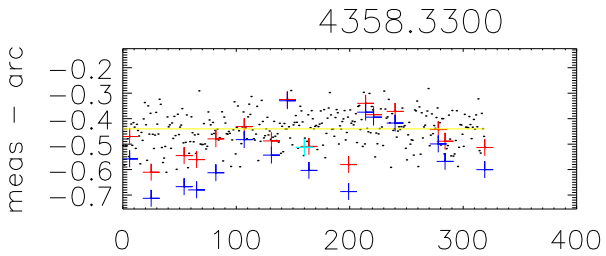

4046.5600
off: −0.55
sig: 0.053
4358.3300
off: −0.53
sig: 0.021
5460.9400
off: −0.34
sig: 0.018
5577.3390
off: −0.34
sig: 0.003
5889.9500
off: −0.23
sig: 0.009
5895.9240
off: −0.20
sig: 0.013

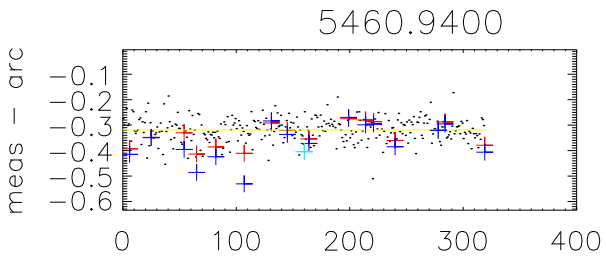

shift(pix)=−0.467
err(pix)= 0.062
oldshift(pix)=−0.545
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

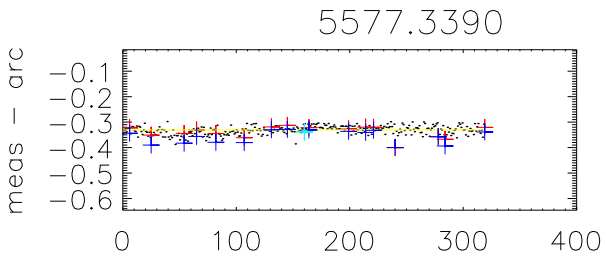

shift(pix)=−0.513
err(pix)= 0.023
oldshift(pix)=−0.527
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

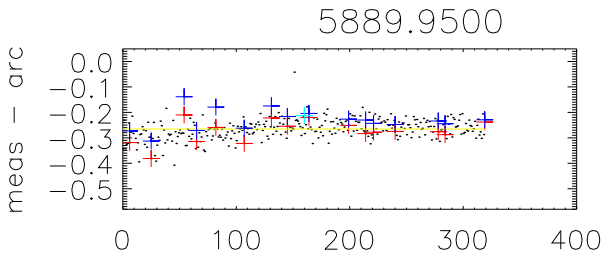

shift(pix)=−0.404
err(pix)= 0.019
oldshift(pix)=−0.338
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

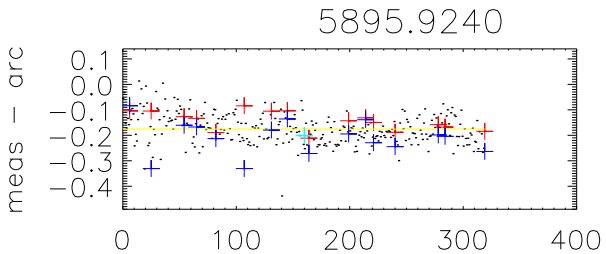

4046.5600
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

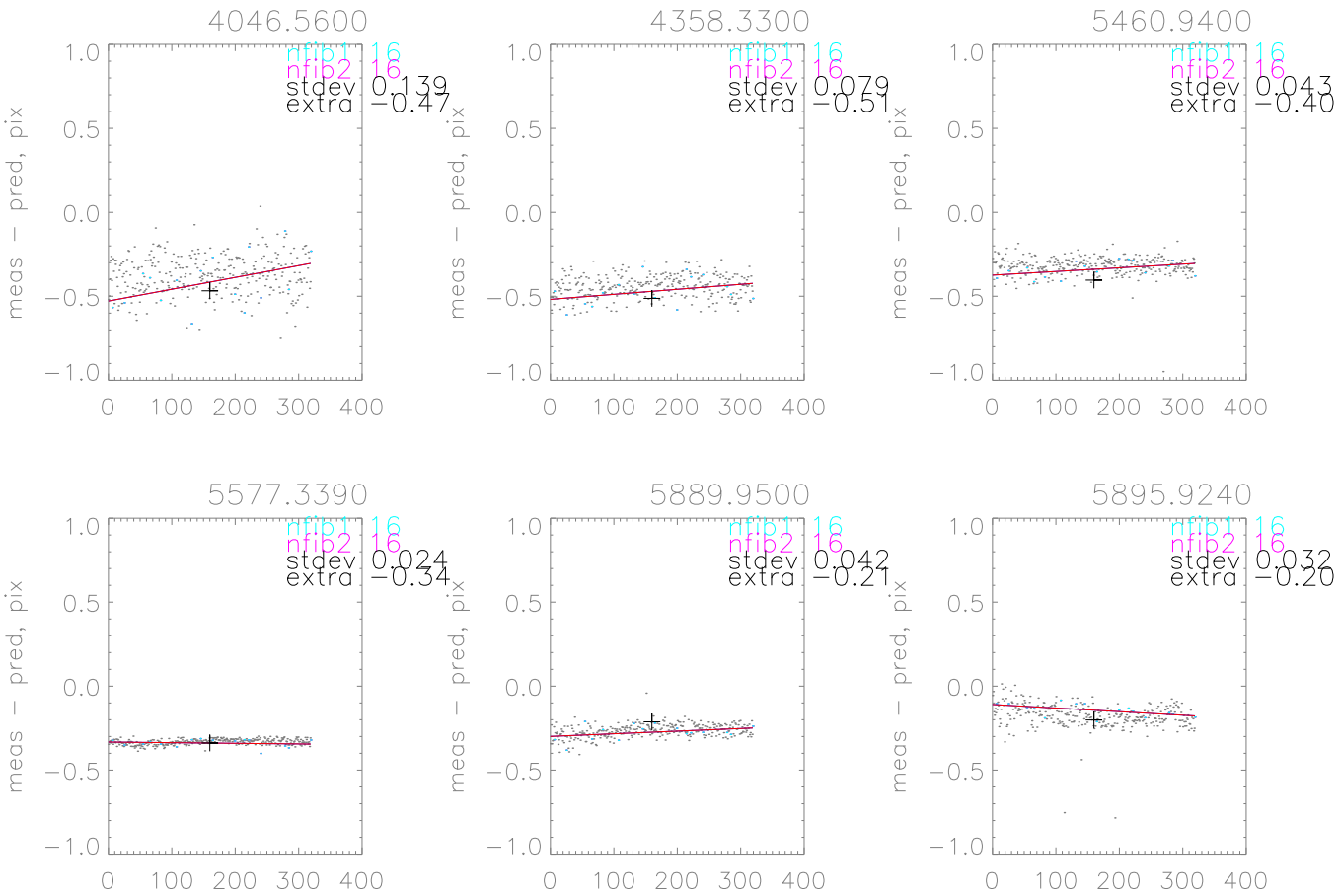

4358.3300
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

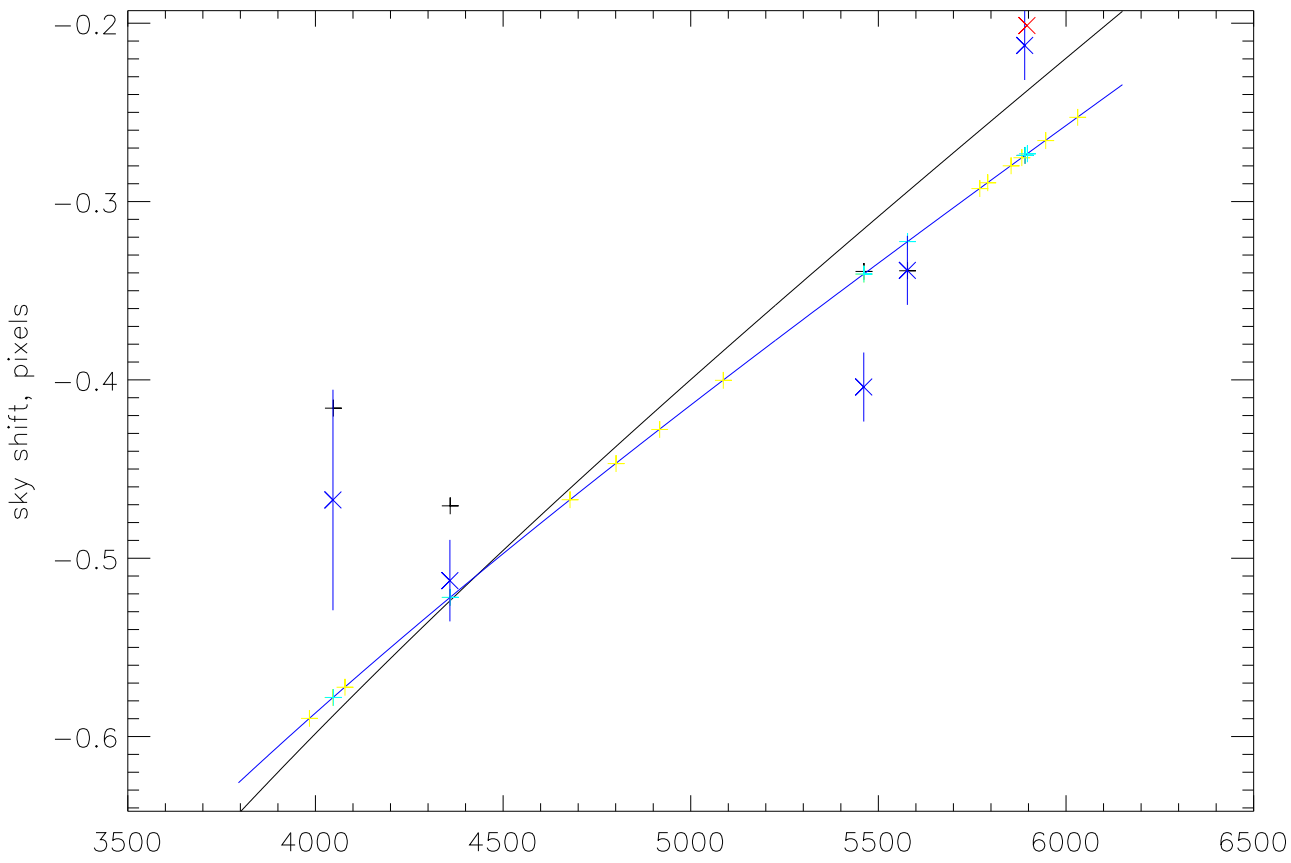

5460.9400
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

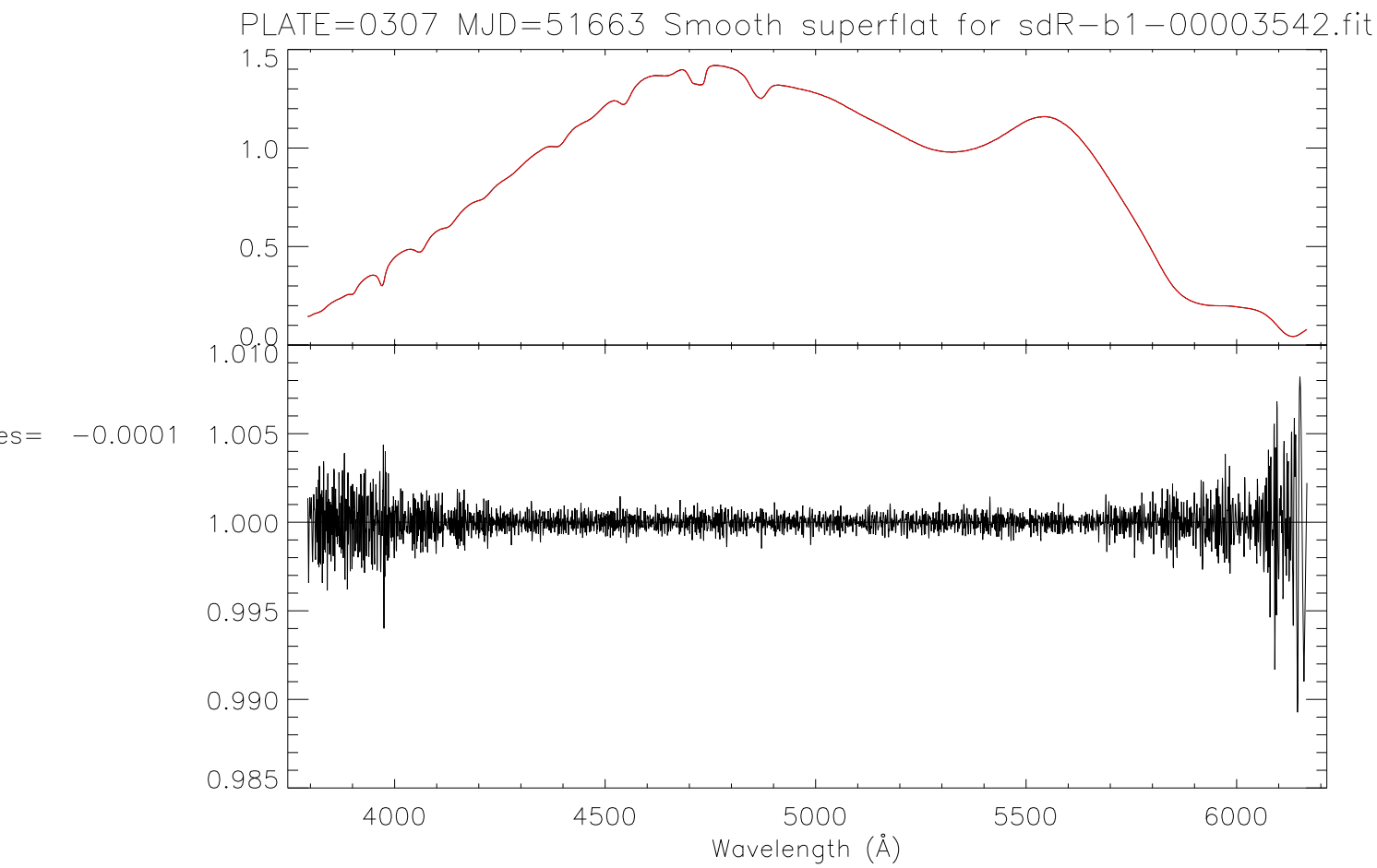

5577.3390
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

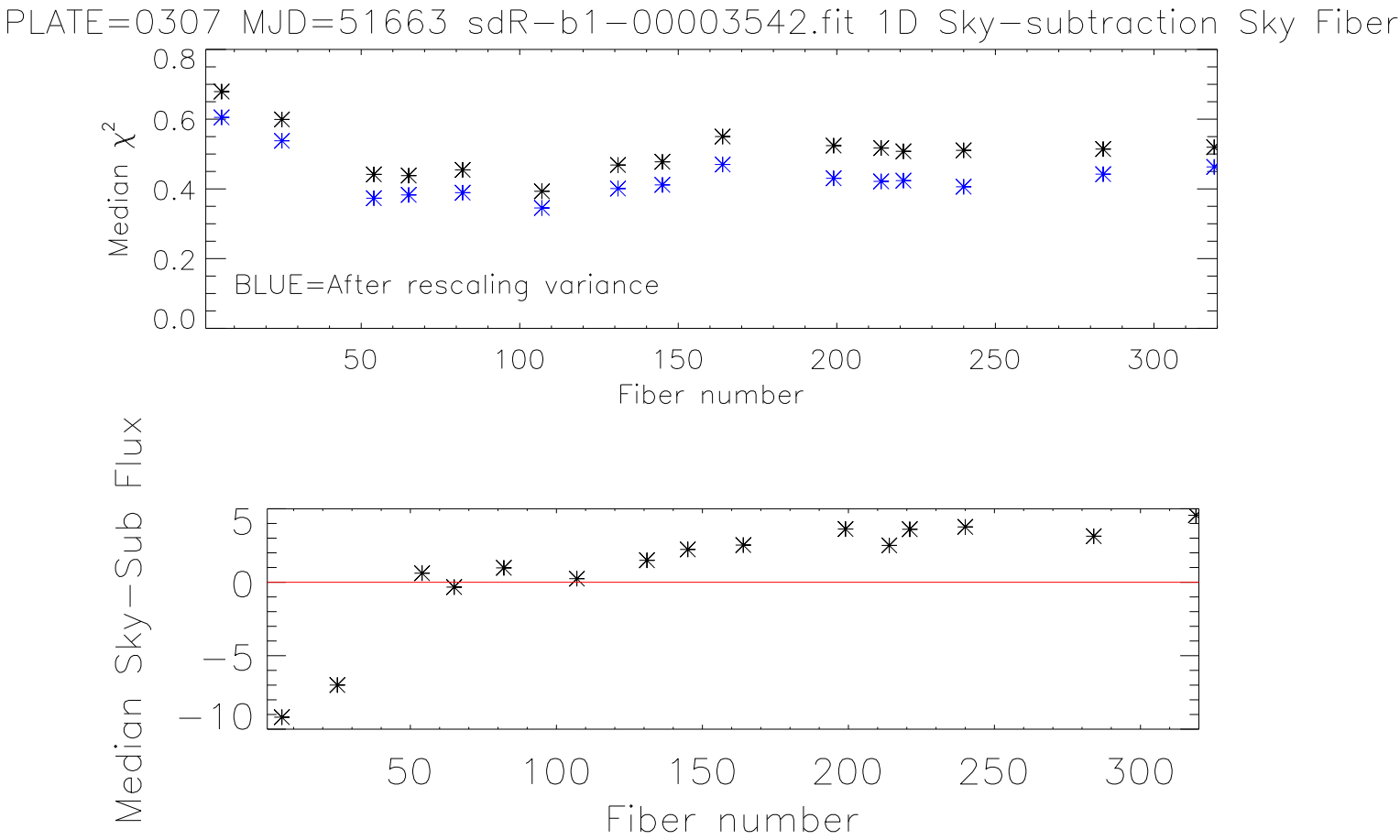

5889.9500
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

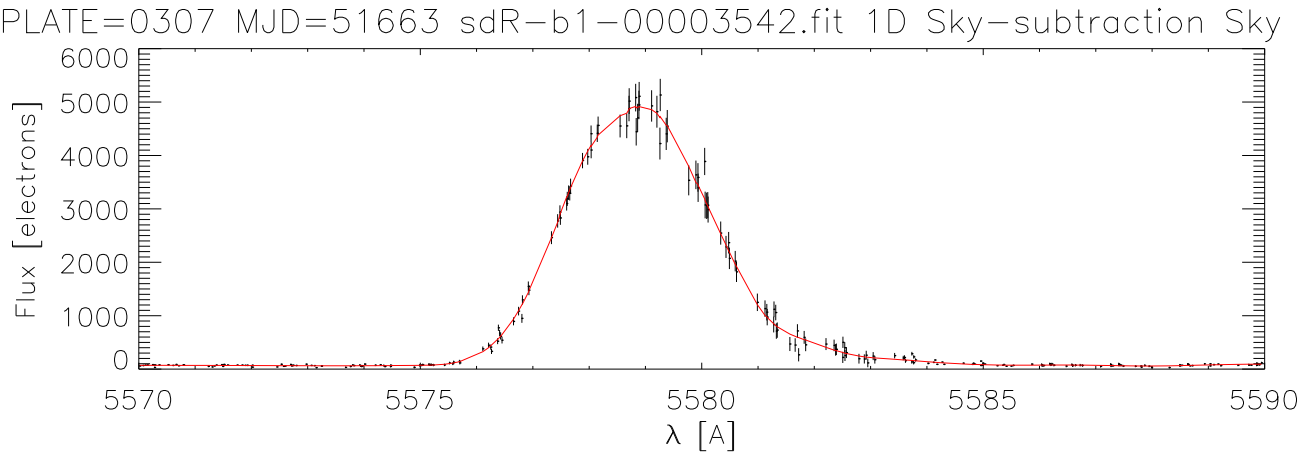

5895.9240
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

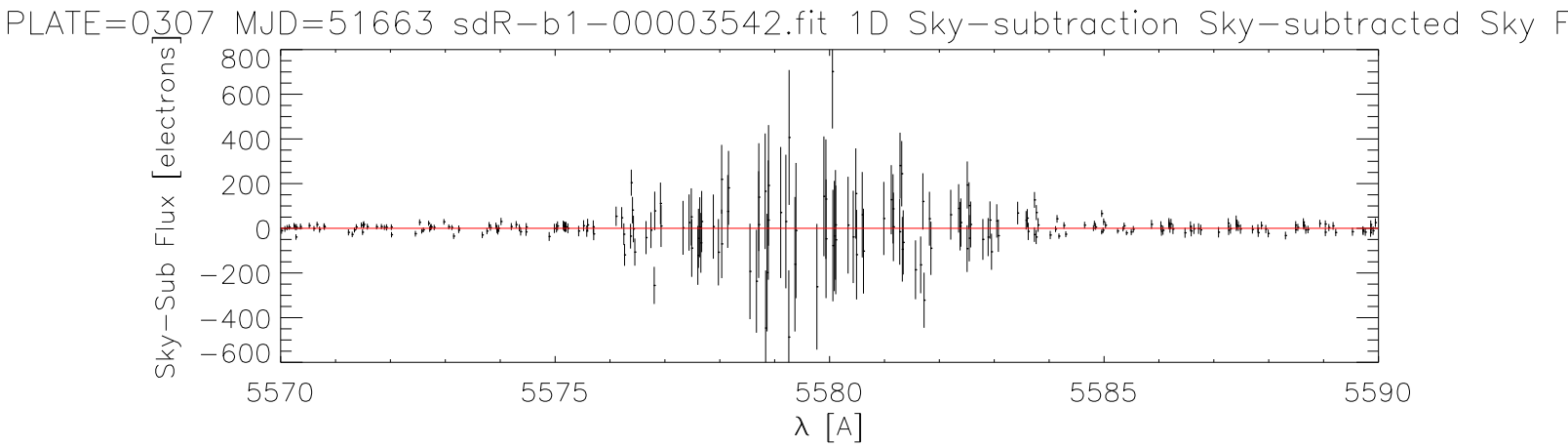

4046.5600
nfib1 16
nfib2 16
stdev 0.139
extra −0.47
4358.3300
nfib1 16
nfib2 16
stdev 0.079
extra −0.51
5460.9400
nfib1 16
nfib2 16
stdev 0.043
extra −0.40
5577.3390
nfib1 16
nfib2 16
stdev 0.024
extra −0.34
5889.9500
nfib1 16
nfib2 16
stdev 0.042
extra −0.21
5895.9240
nfib1 16
nfib2 16
stdev 0.032
extra −0.20
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

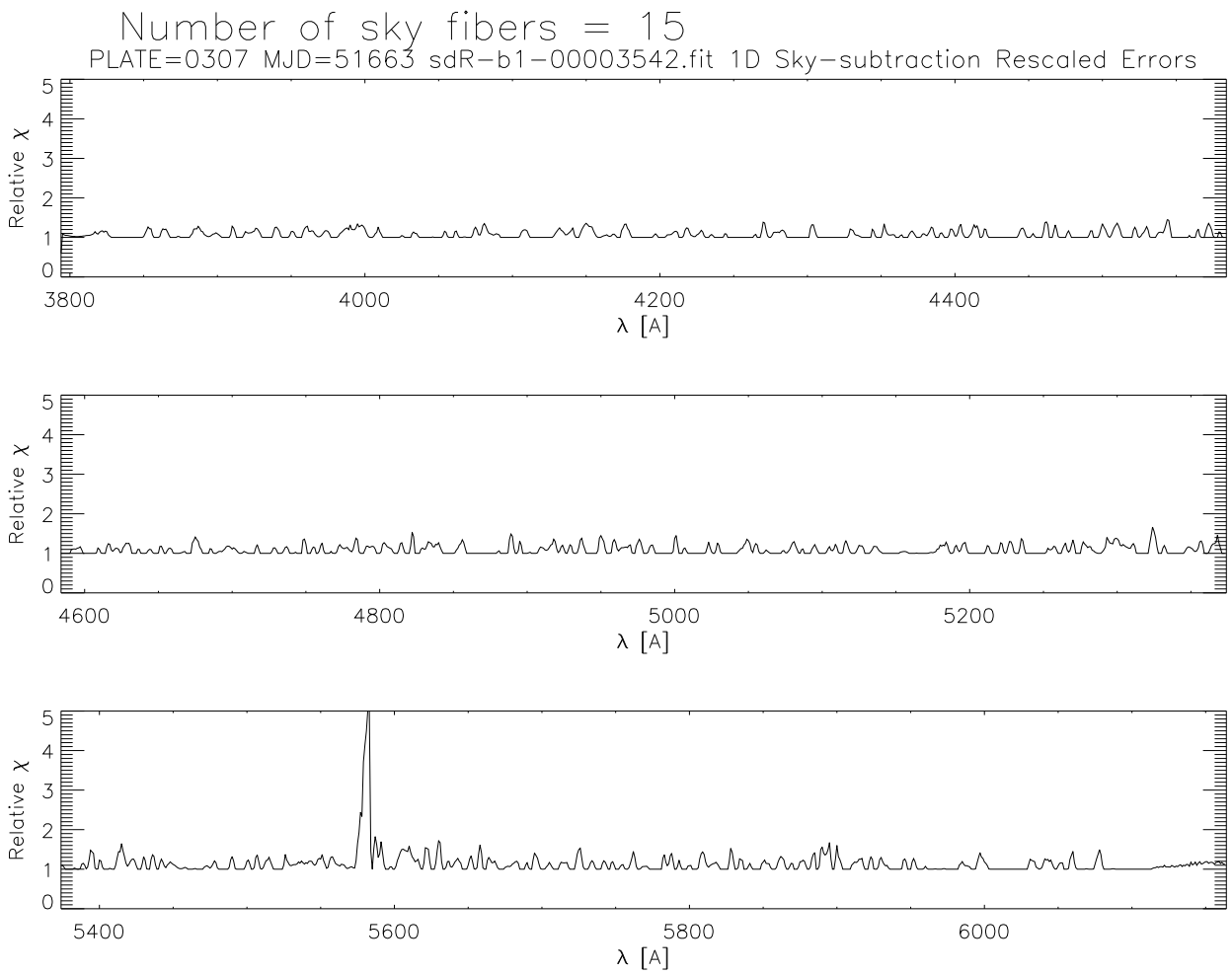

−0.2
−0.3
−0.4
−0.5
−0.6
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

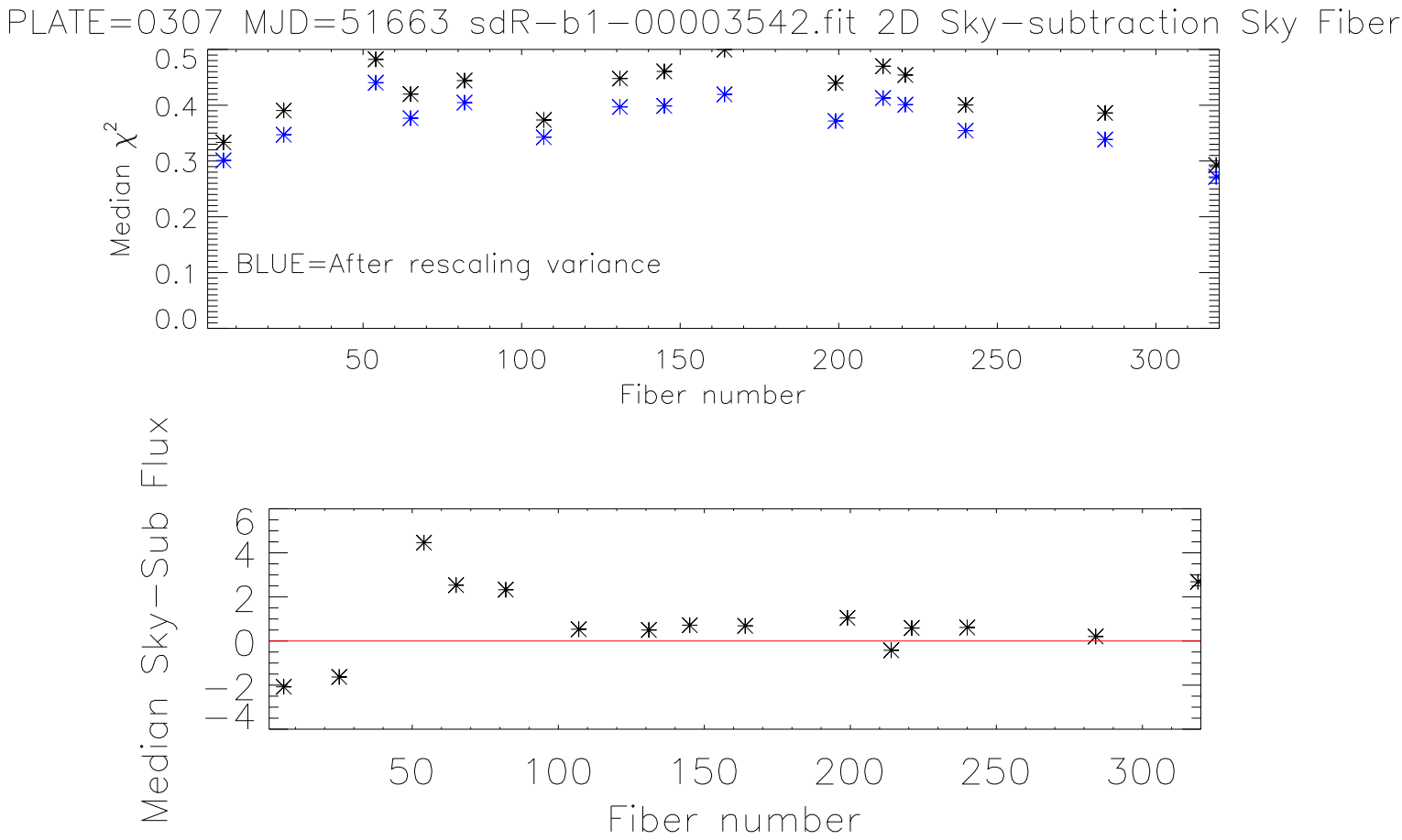

PLATE=0307 MJD=51663 Smooth superflat for sdR-b1-00003542.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
es= −0.0001
4000
4500
5000
5500
6000
Wavelength (Å)

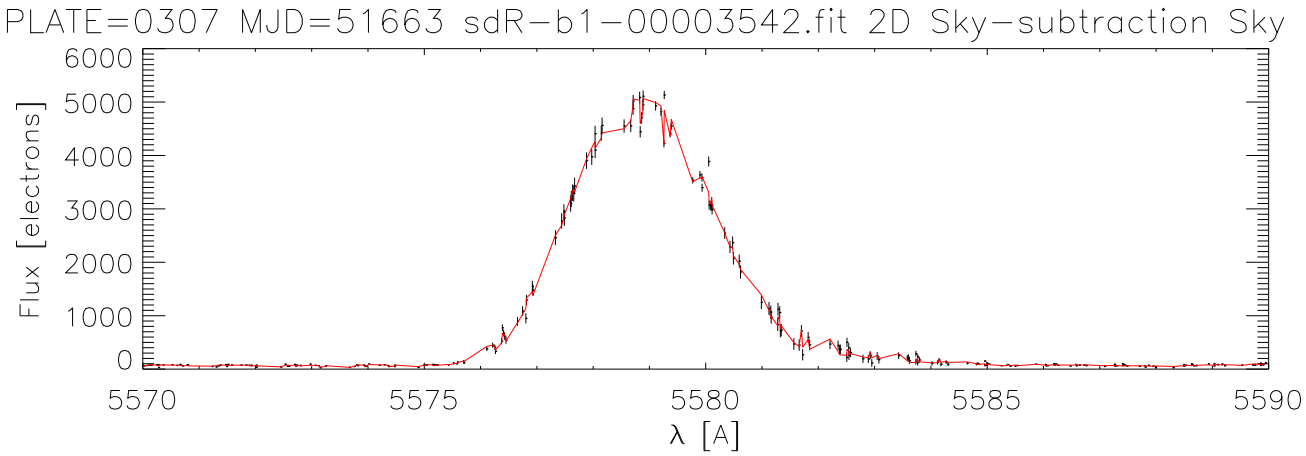

PLATE=0307 MJD=51663 sdR-b1-00003542.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
5
0
-5
-10
50
100
150
200
250
300
Fiber number

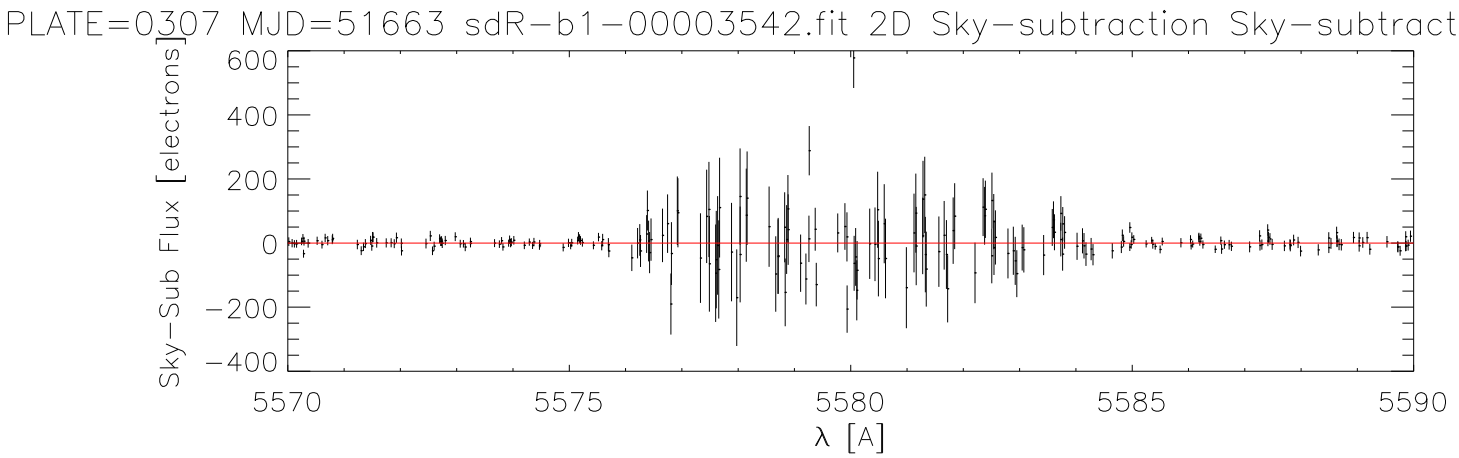

PLATE=0307 MJD=51663 sdR-b1-00003542.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

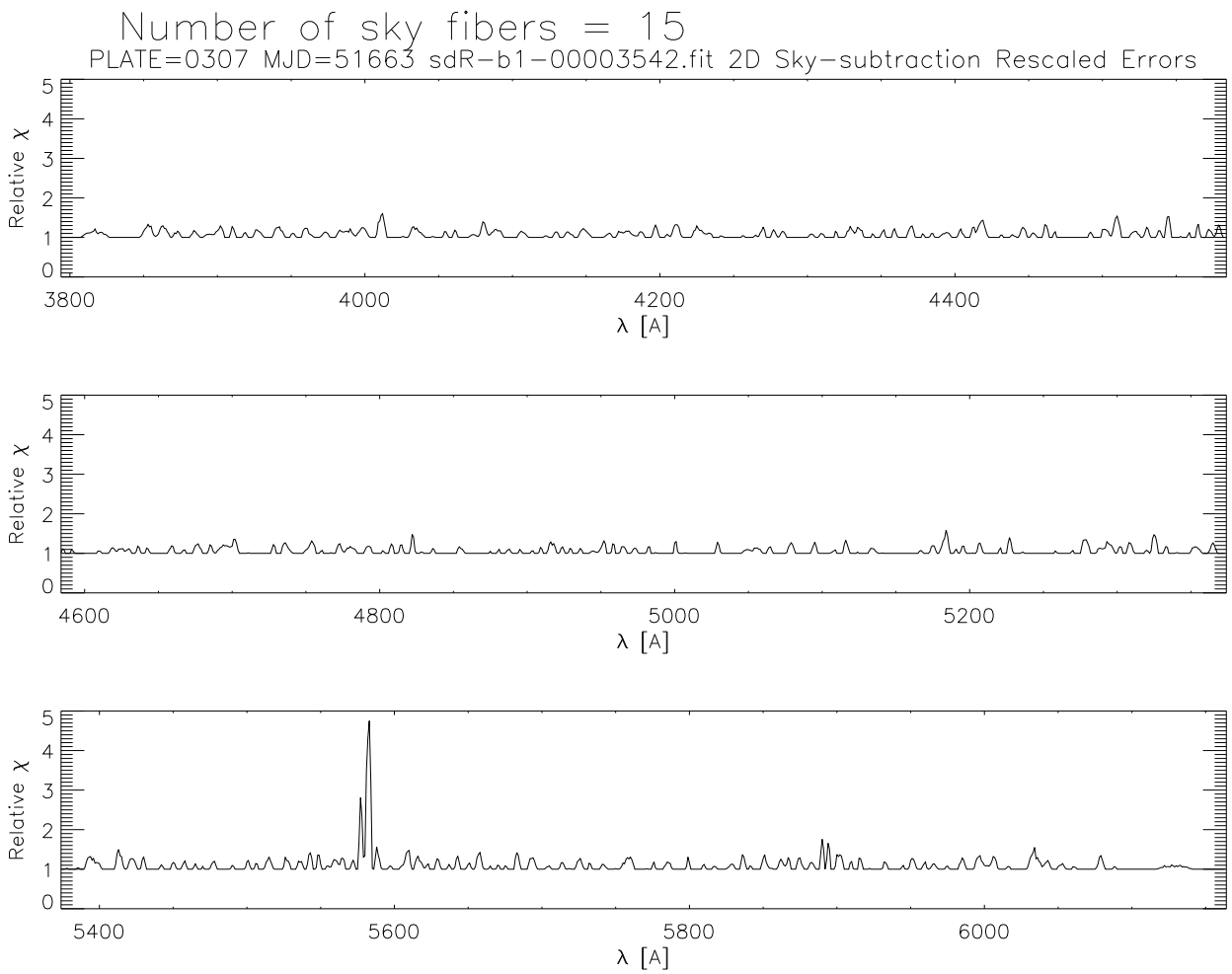

PLATE=0307 MJD=51663 sdR-b1-00003542.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

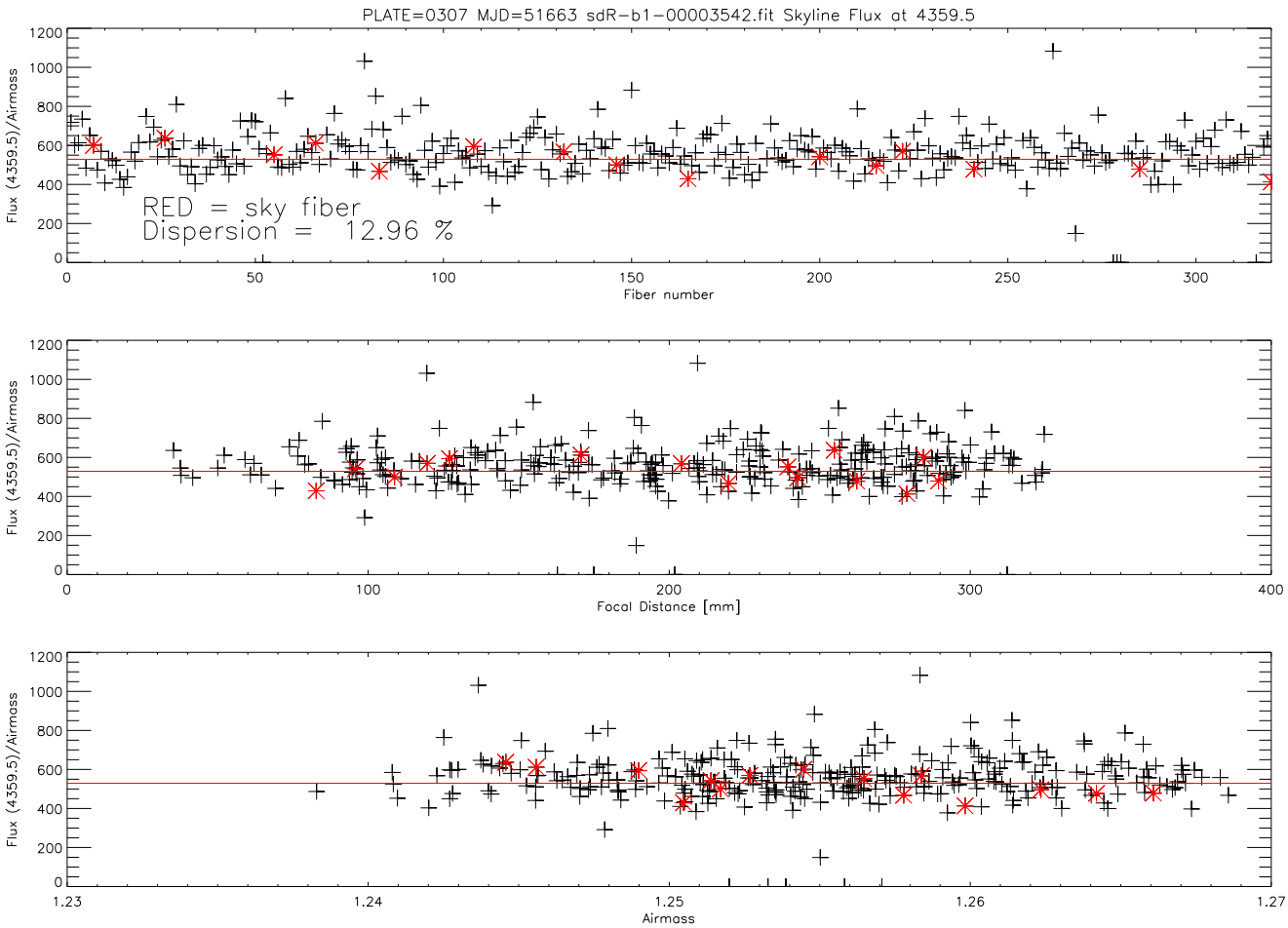

Number of sky fibers = 15
PLATE=0307 MJD=51663 sdR-b1-00003542.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

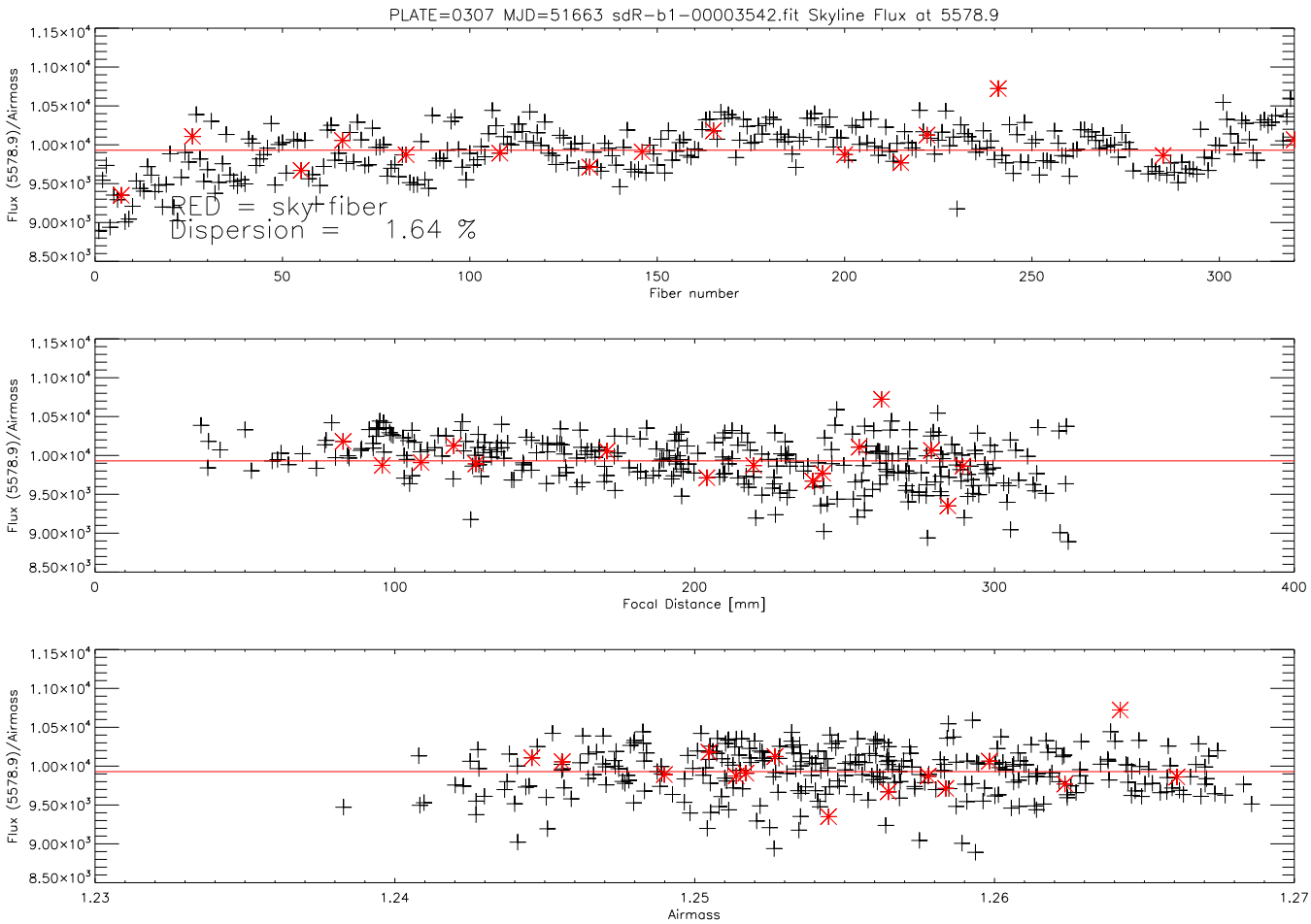

PLATE=0307 MJD=51663 sdR-b1-00003542.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

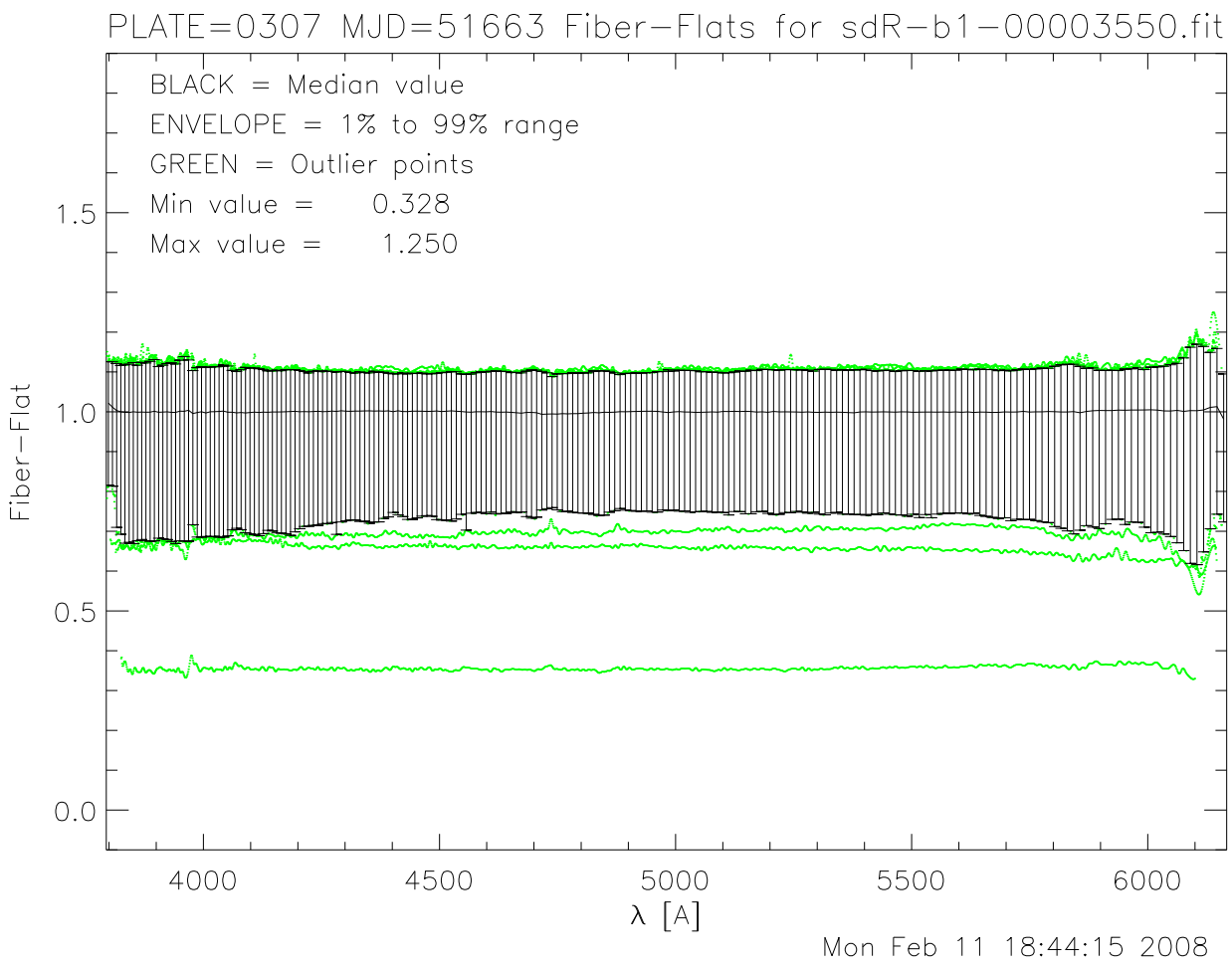

PLATE=0307 MJD=51663 sdR-b1-00003542.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

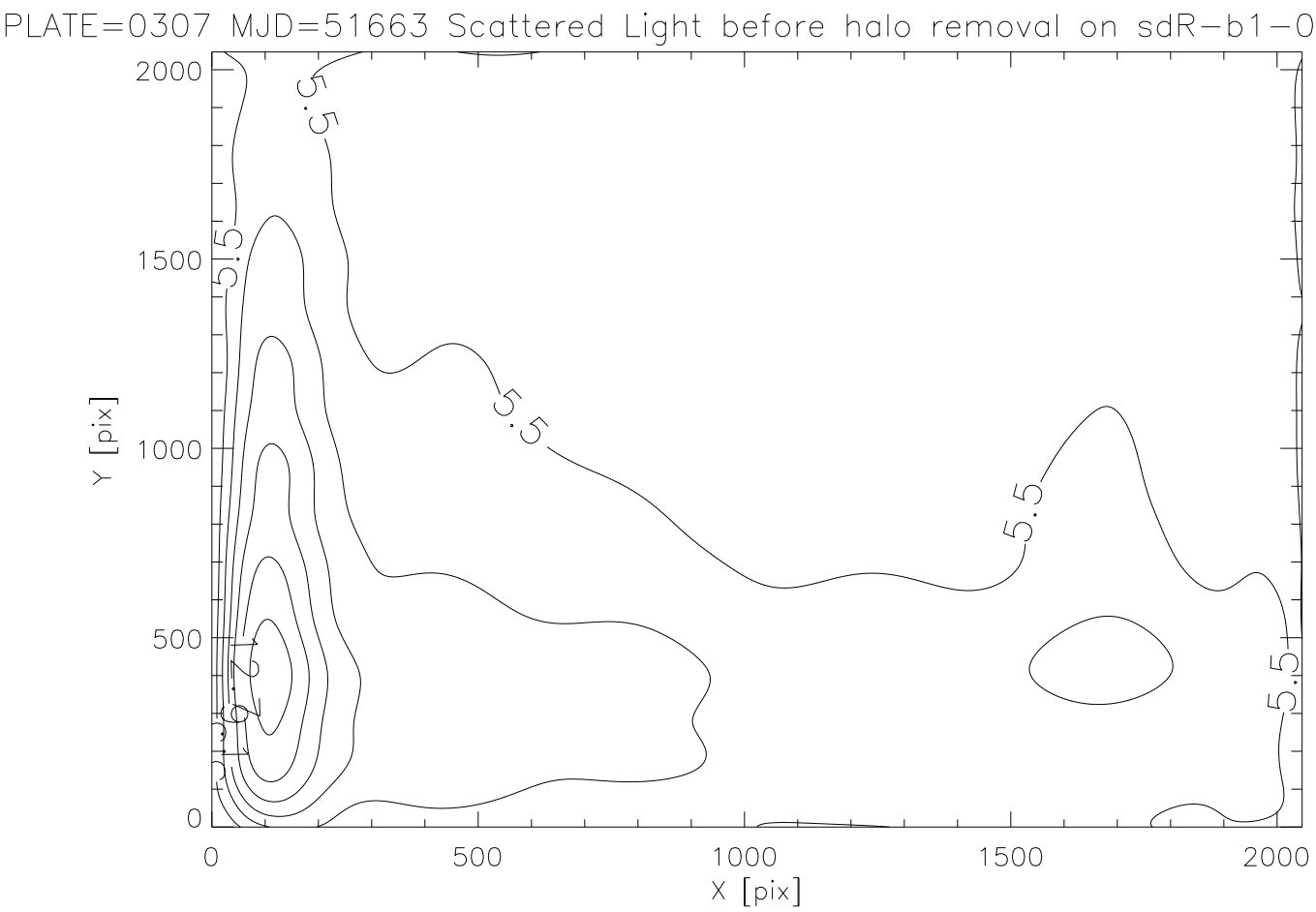

PLATE=0307 MJD=51663 sdR-b1-00003542.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

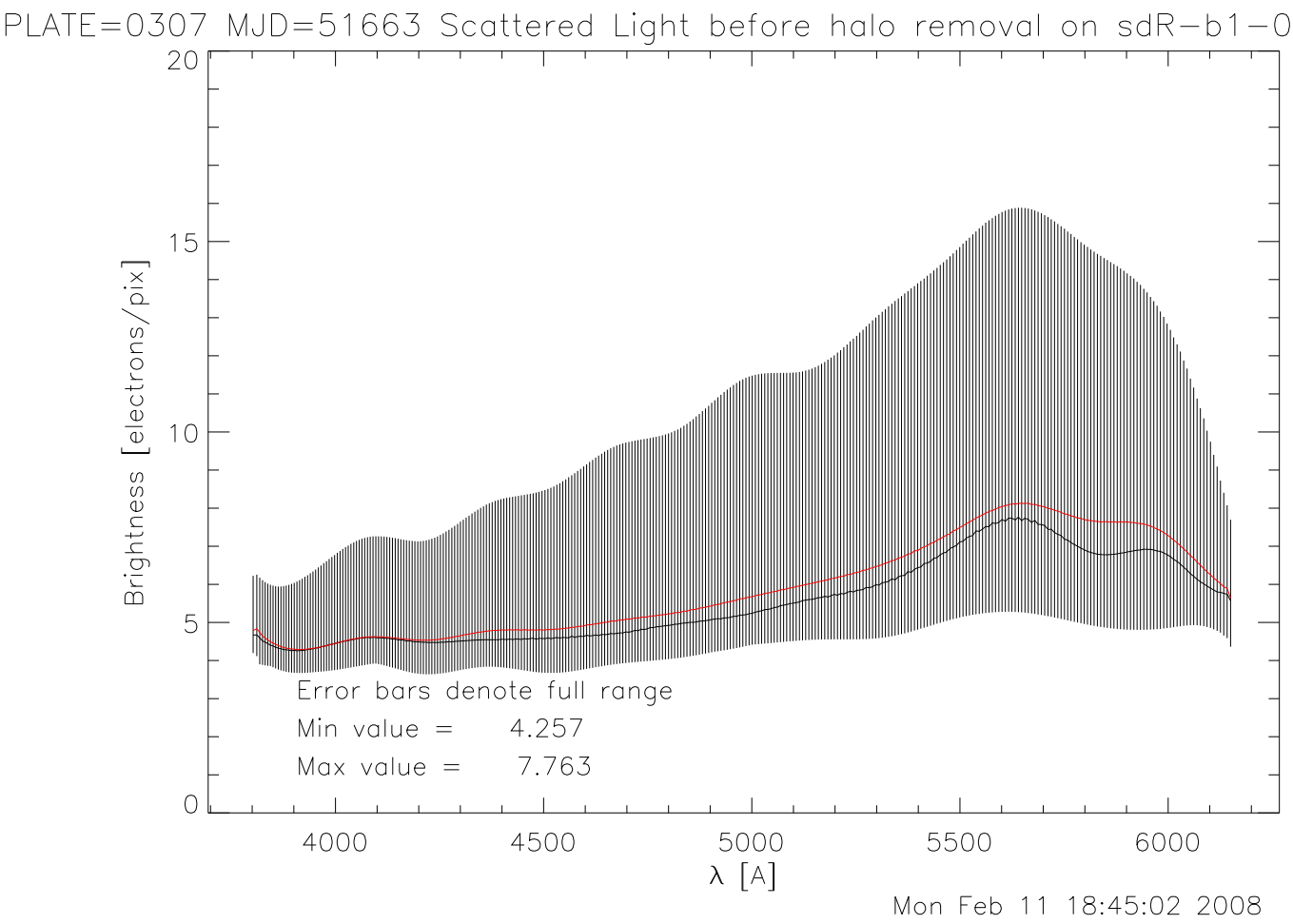

Number of sky fibers = 15
PLATE=0307 MJD=51663 sdR-b1-00003542.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

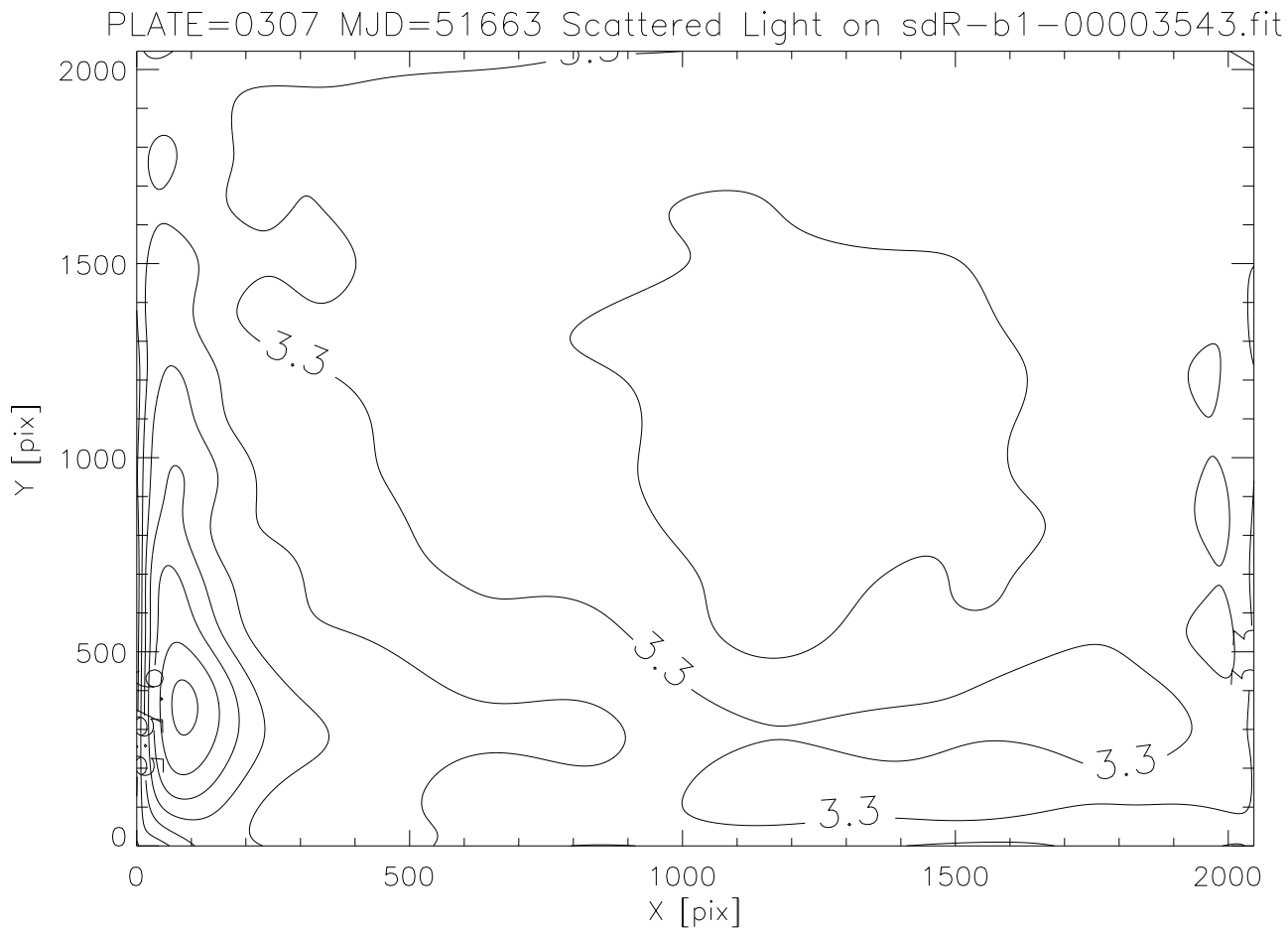

PLATE=0307 MJD=51663 sdR-b1-00003542.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 12.96 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

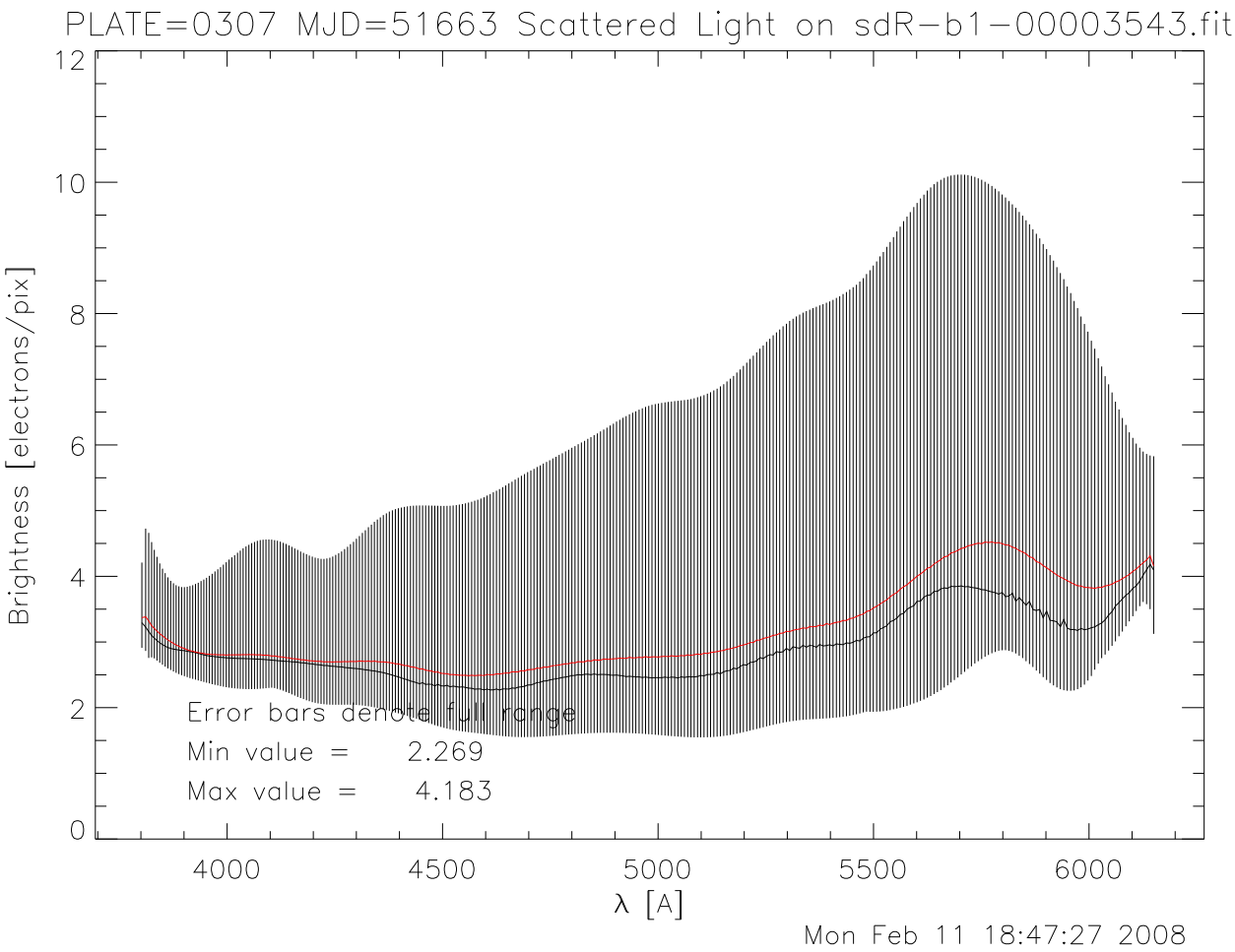

PLATE=0307 MJD=51663 sdR-b1-00003542.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.64 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

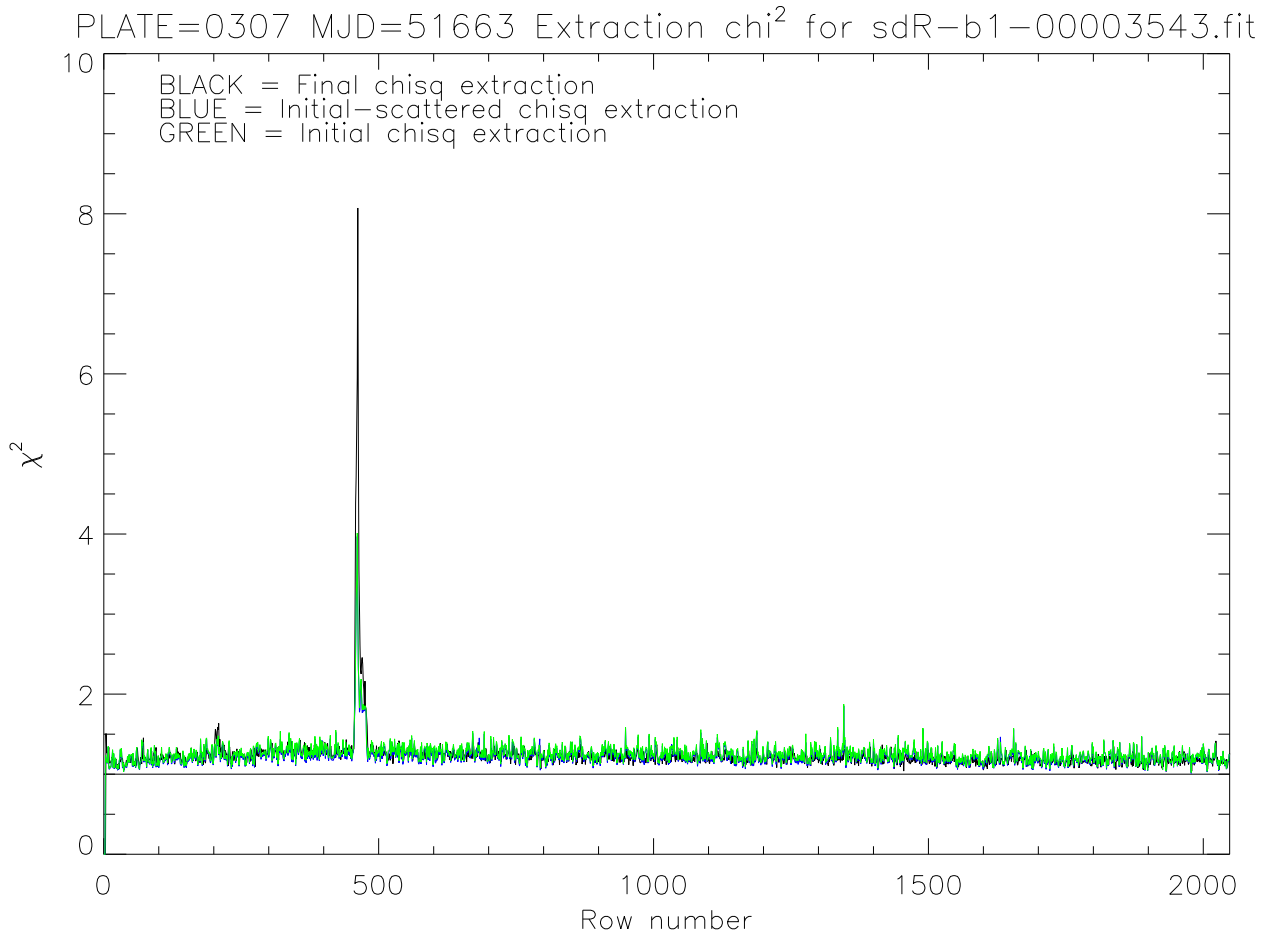

PLATE=0307 MJD=51663 Fiber-Flats for sdR-b1-00003550.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.328
Max value = 1.250
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 18:44:15 2008

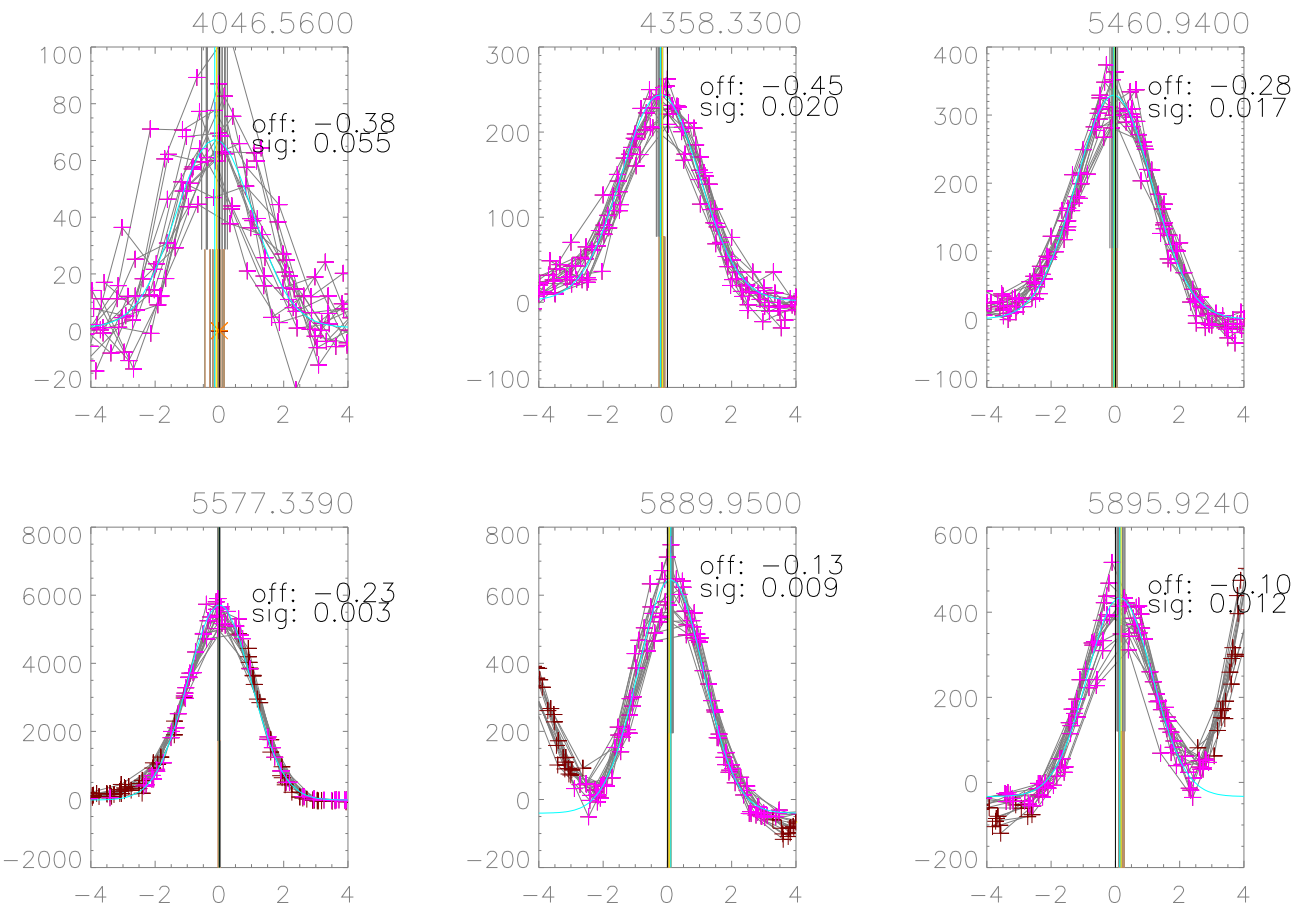

PLATE=0307 MJD=51663 Scattered Light before halo removal on sdR−b1−00003543.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
5.5
5.5
5.5
5.5
5.5
5.2
5.2

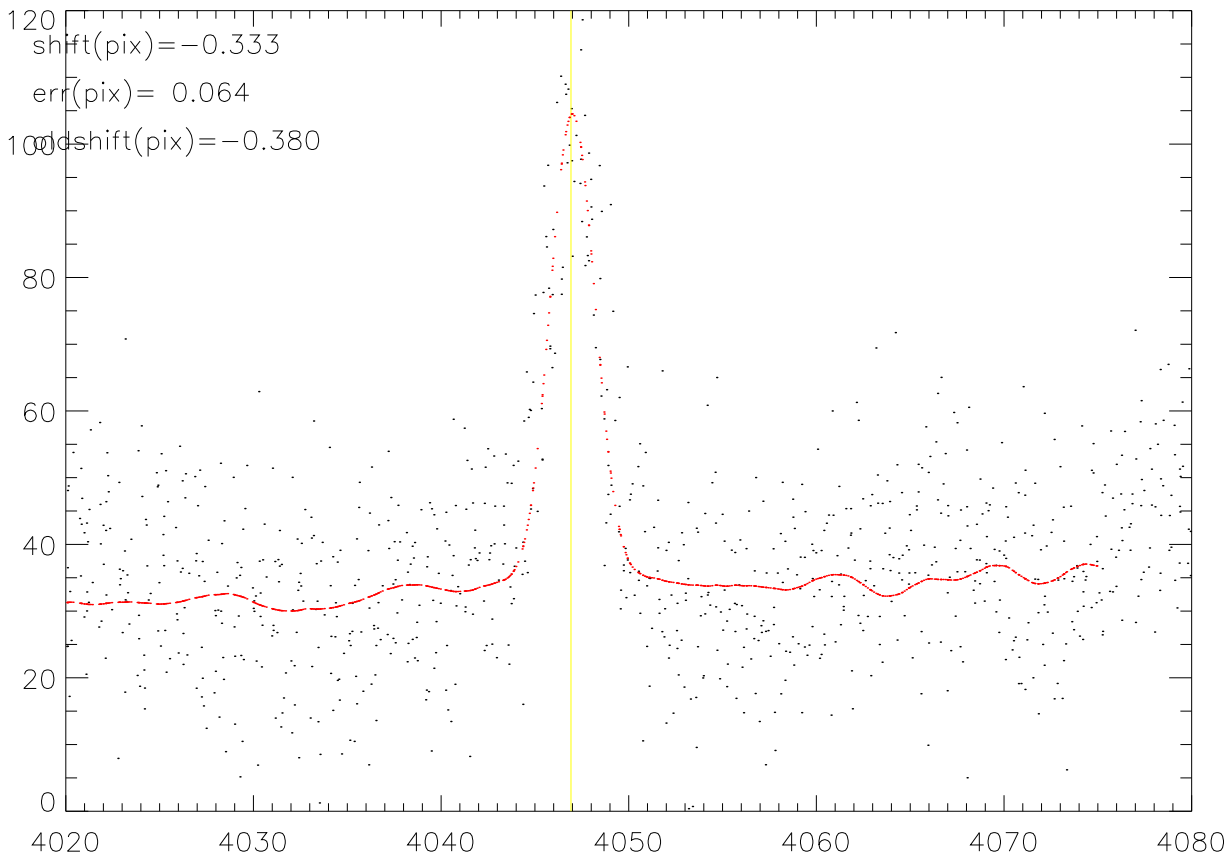

PLATE=0307 MJD=51663 Scattered Light before halo removal on sdR-b1-00003543.f
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 4.257
Max value = 7.763
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 18:45:02 2008

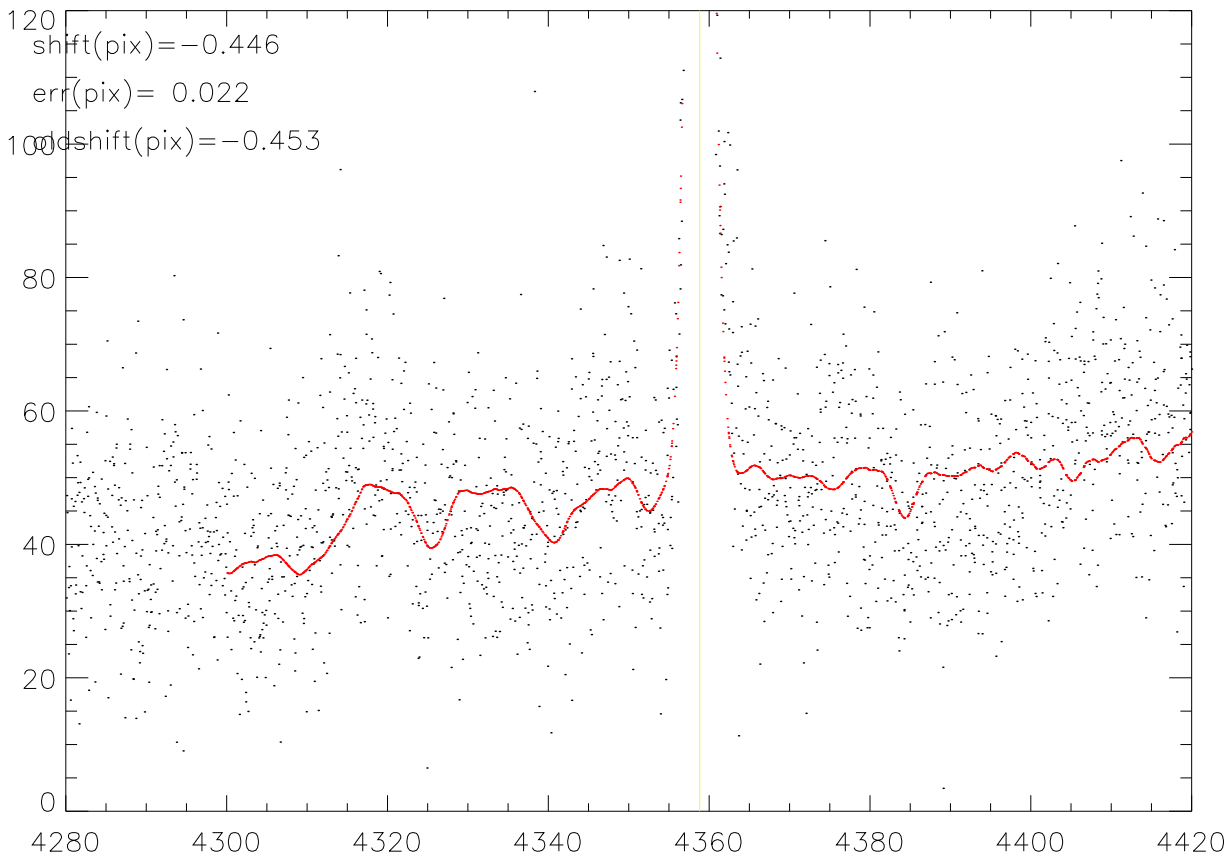

PLATE=0307 MJD=51663 Scattered Light on sdR−b1−00003543.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
3.3
3.3
3.3
3.3

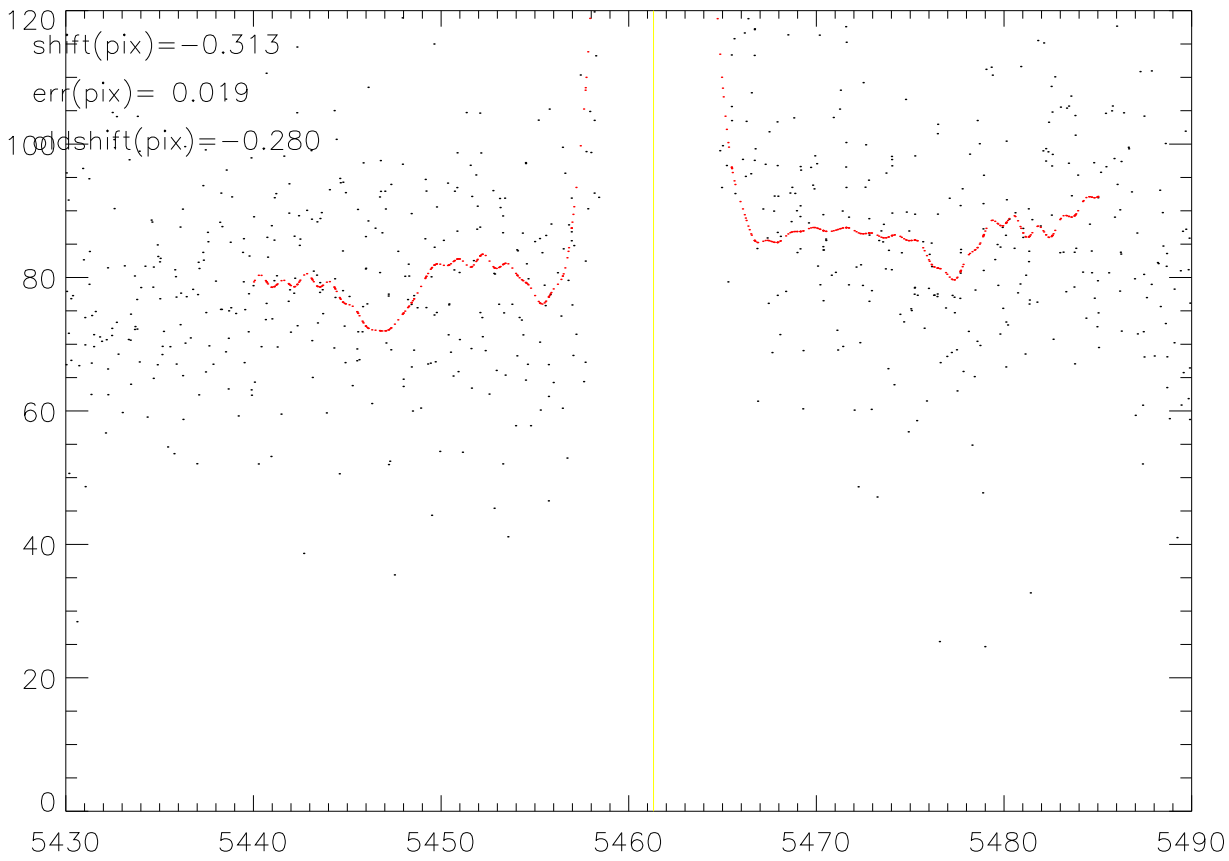

PLATE=0307 MJD=51663 Scattered Light on sdR-b1-00003543.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 2.269
Max value = 4.183
Mon Feb 11 18:47:27 2008

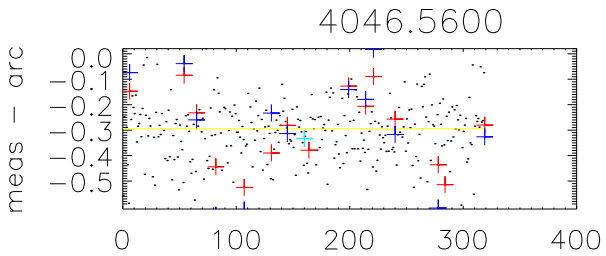

PLATE=0307 MJD=51663 Extraction chi^2 for sdR-b1-00003543.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

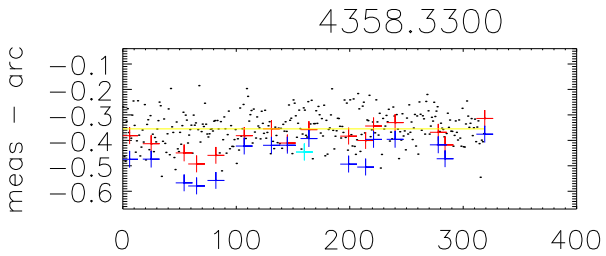

4046.5600
off: −0.38
sig: 0.055
4358.3300
off: −0.45
sig: 0.020
5460.9400
off: −0.28
sig: 0.017
5577.3390
off: −0.23
sig: 0.003
5889.9500
off: −0.13
sig: 0.009
5895.9240
off: −0.10
sig: 0.012

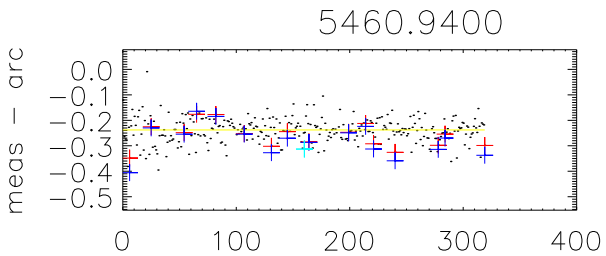

shift(pix)=−0.333
err(pix)= 0.064
oldshift(pix)=−0.380
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

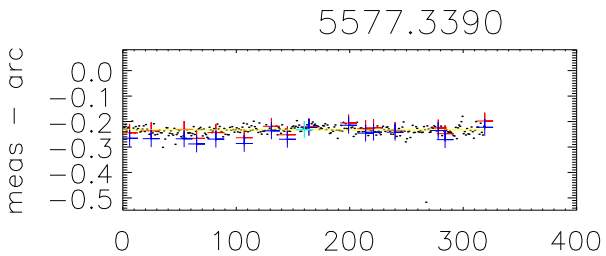

shift(pix)=−0.446
err(pix)= 0.022
oldshift(pix)=−0.453
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

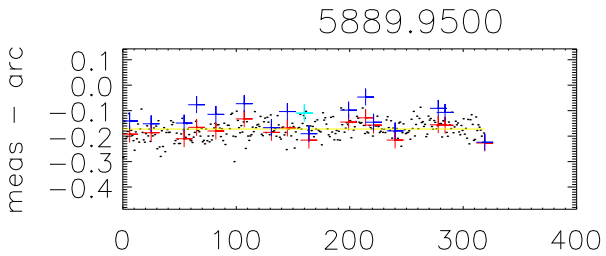

shift(pix)=−0.313
err(pix)= 0.019
oldshift(pix)=−0.280
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

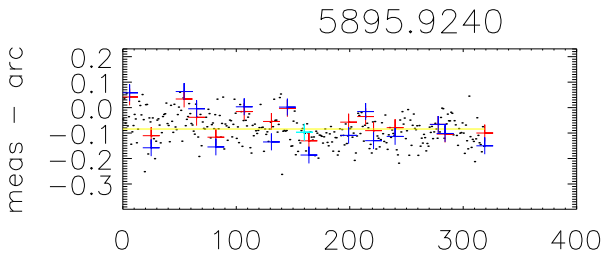

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

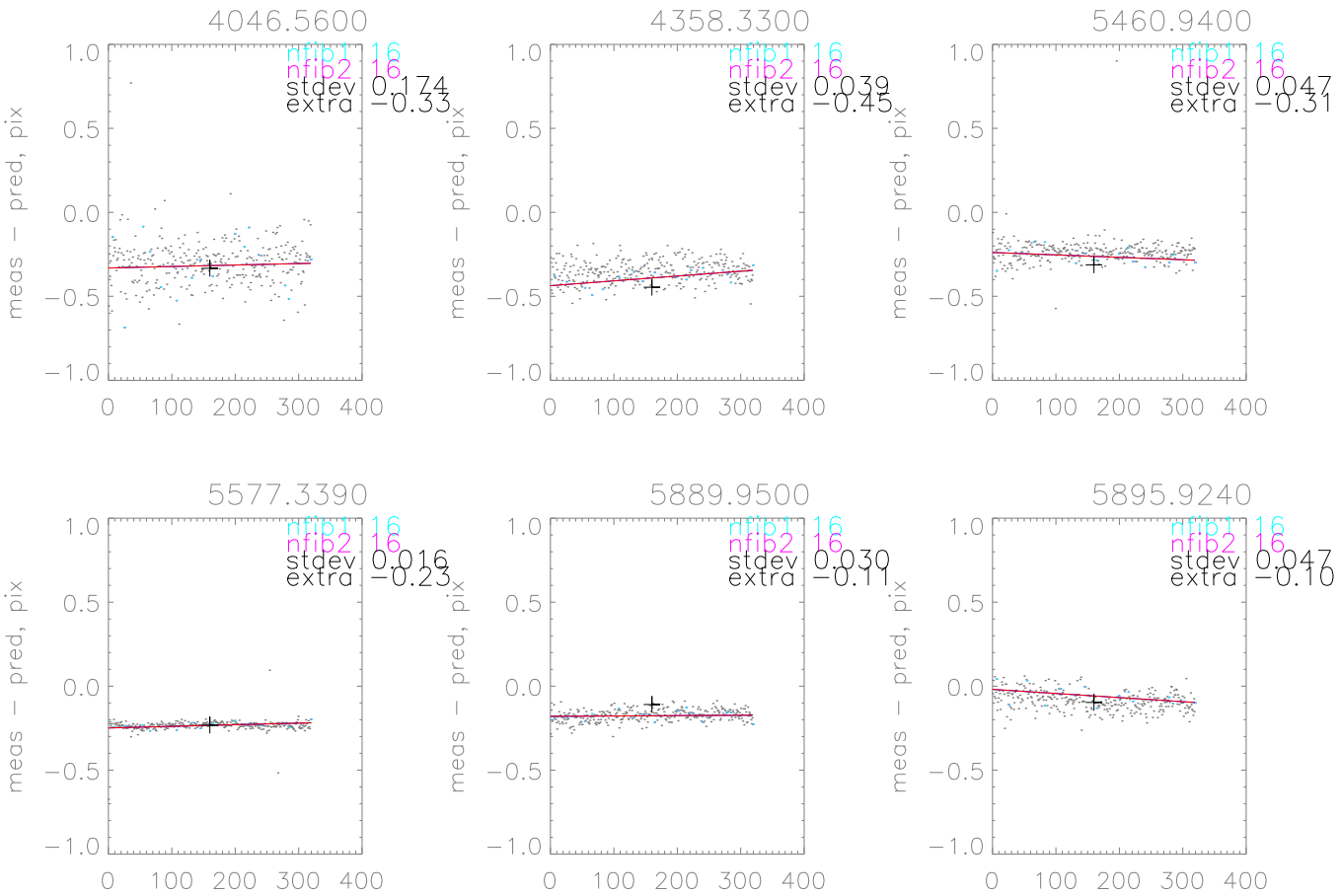

4358.3300
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

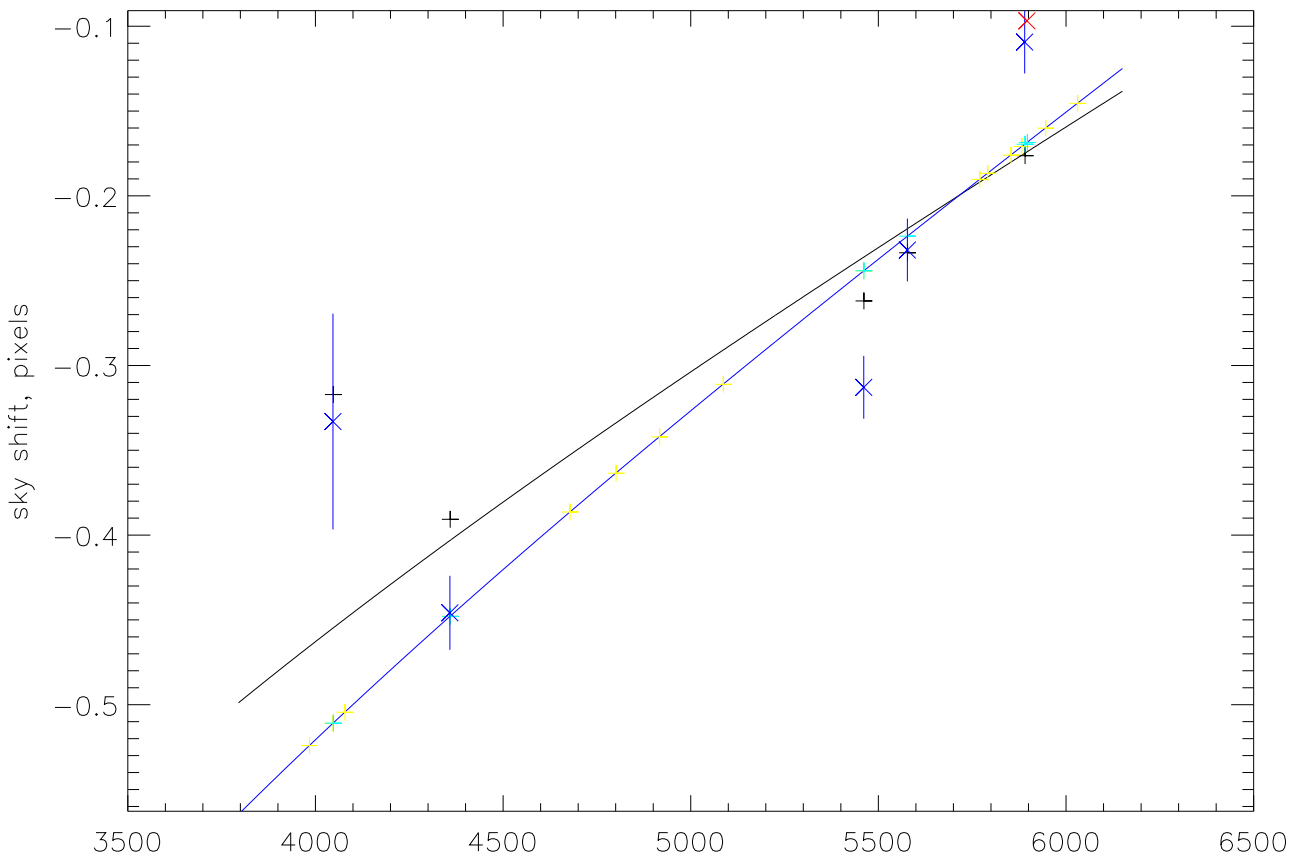

5460.9400
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

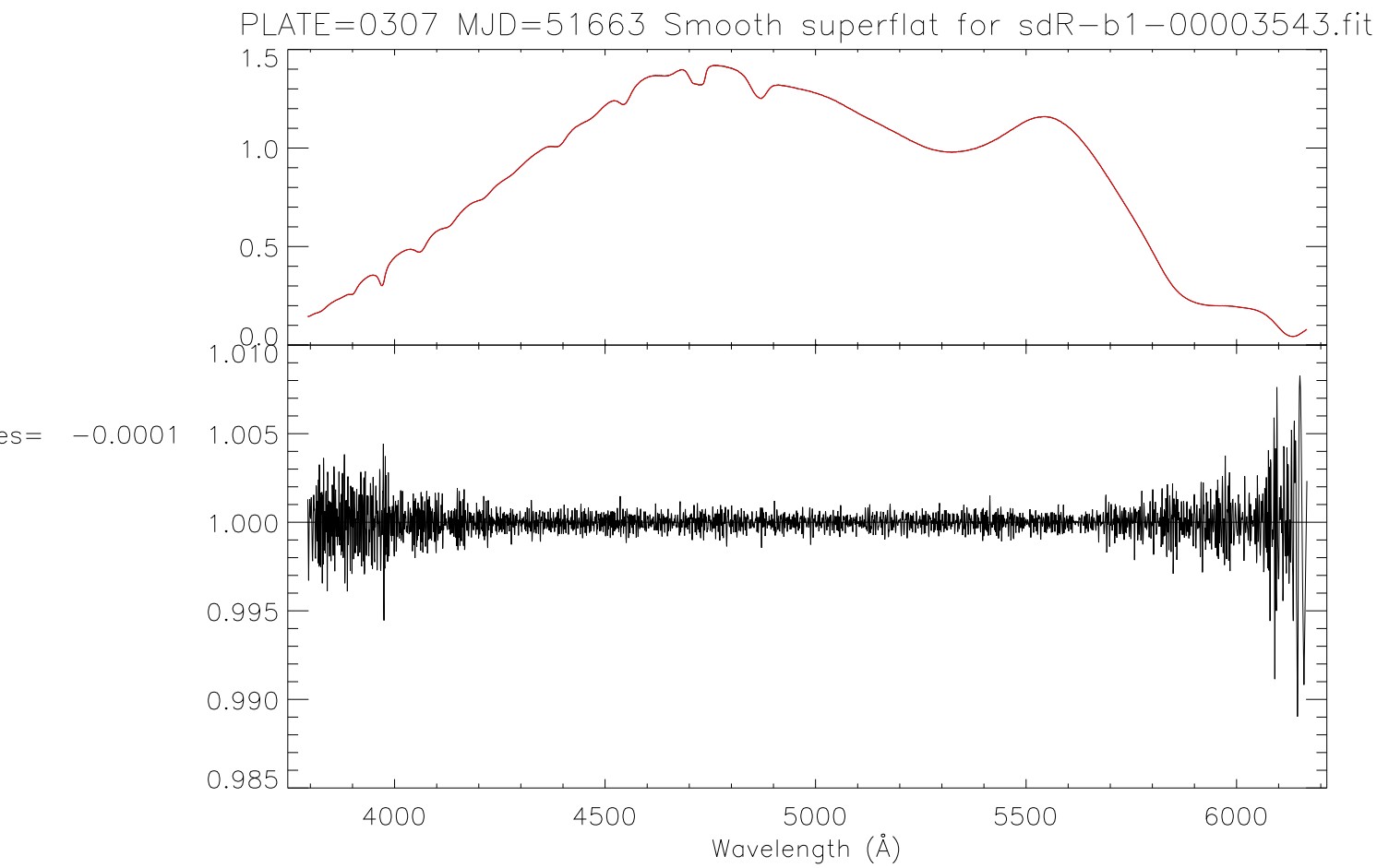

5577.3390
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

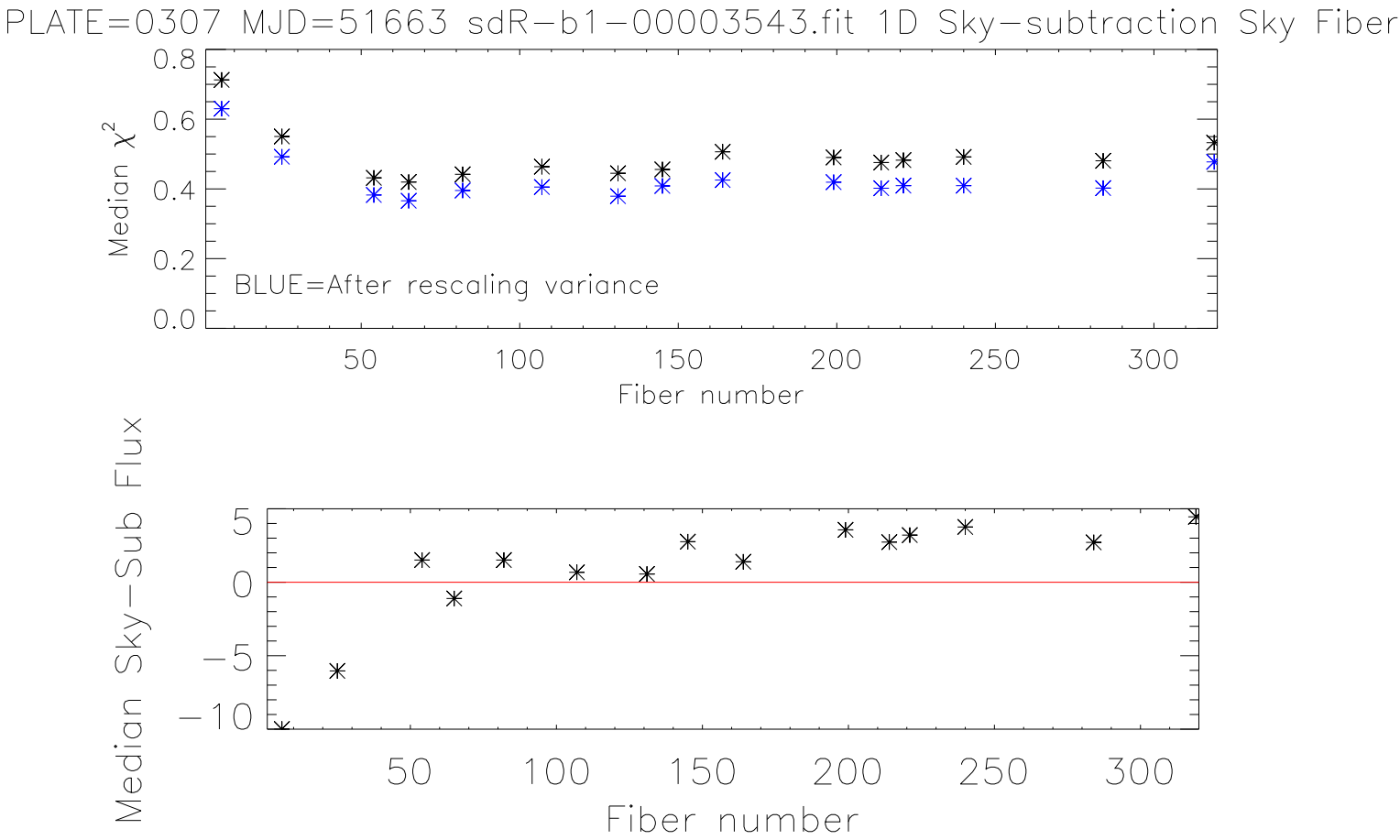

5889.9500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

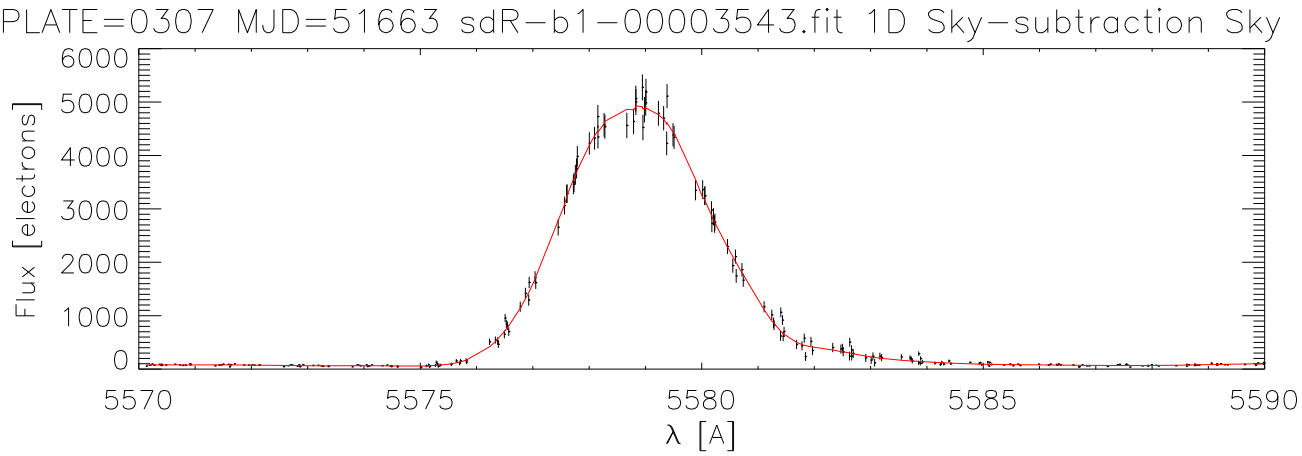

5895.9240
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

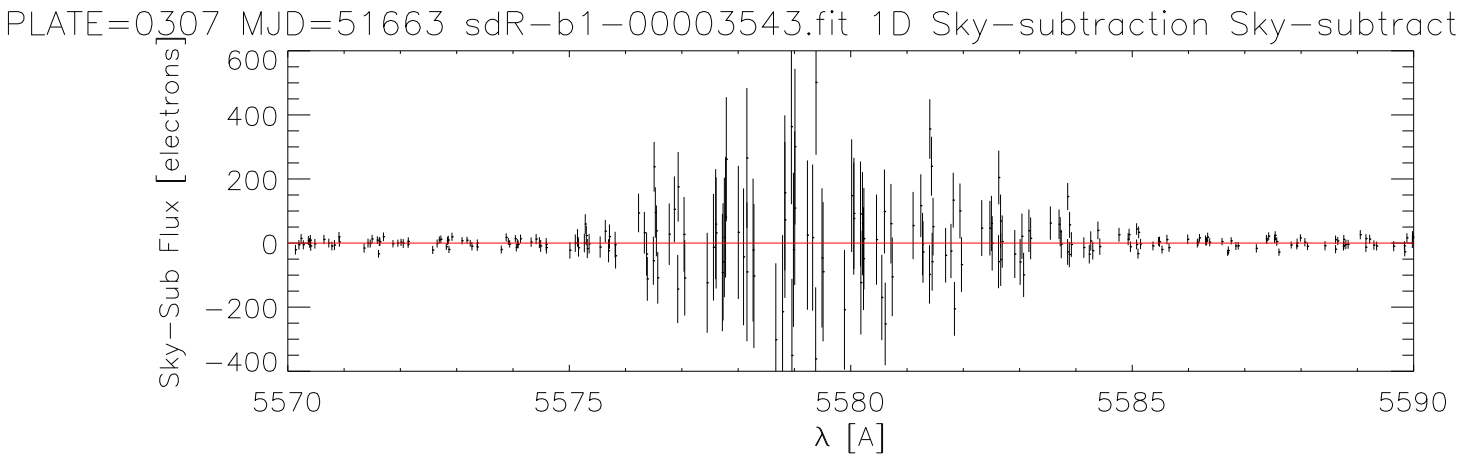

4046.5600
nfib1 16
nfib2 16
stdev 0.174
extra −0.33
4358.3300
nfib1 16
nfib2 16
stdev 0.039
extra −0.45
5460.9400
nfib1 16
nfib2 16
stdev 0.047
extra −0.31
5577.3390
nfib1 16
nfib2 16
stdev 0.016
extra −0.23
5889.9500
nfib1 16
nfib2 16
stdev 0.030
extra −0.11
5895.9240
nfib1 16
nfib2 16
stdev 0.047
extra −0.10
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

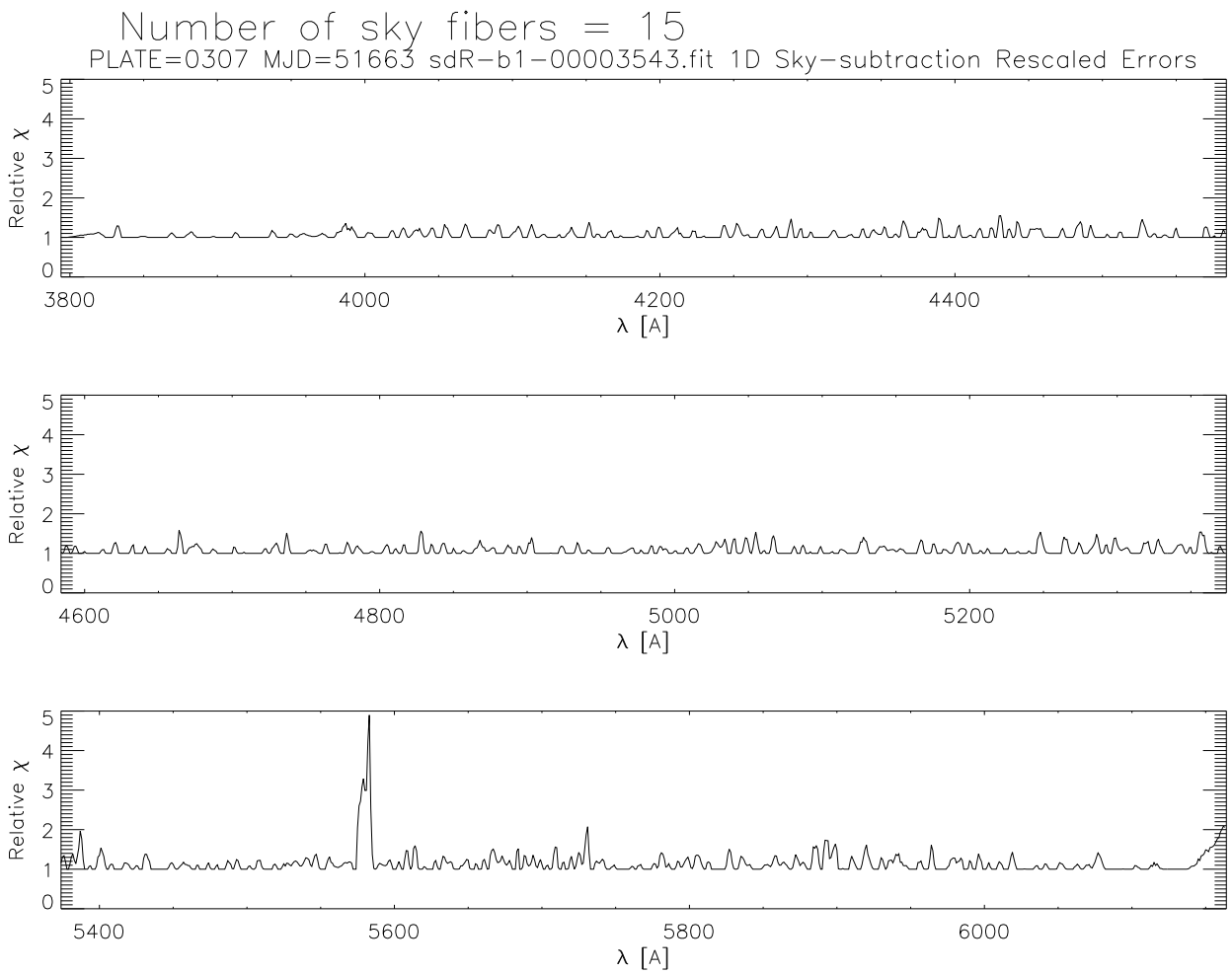

−0.1
−0.2
−0.3
−0.4
−0.5
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

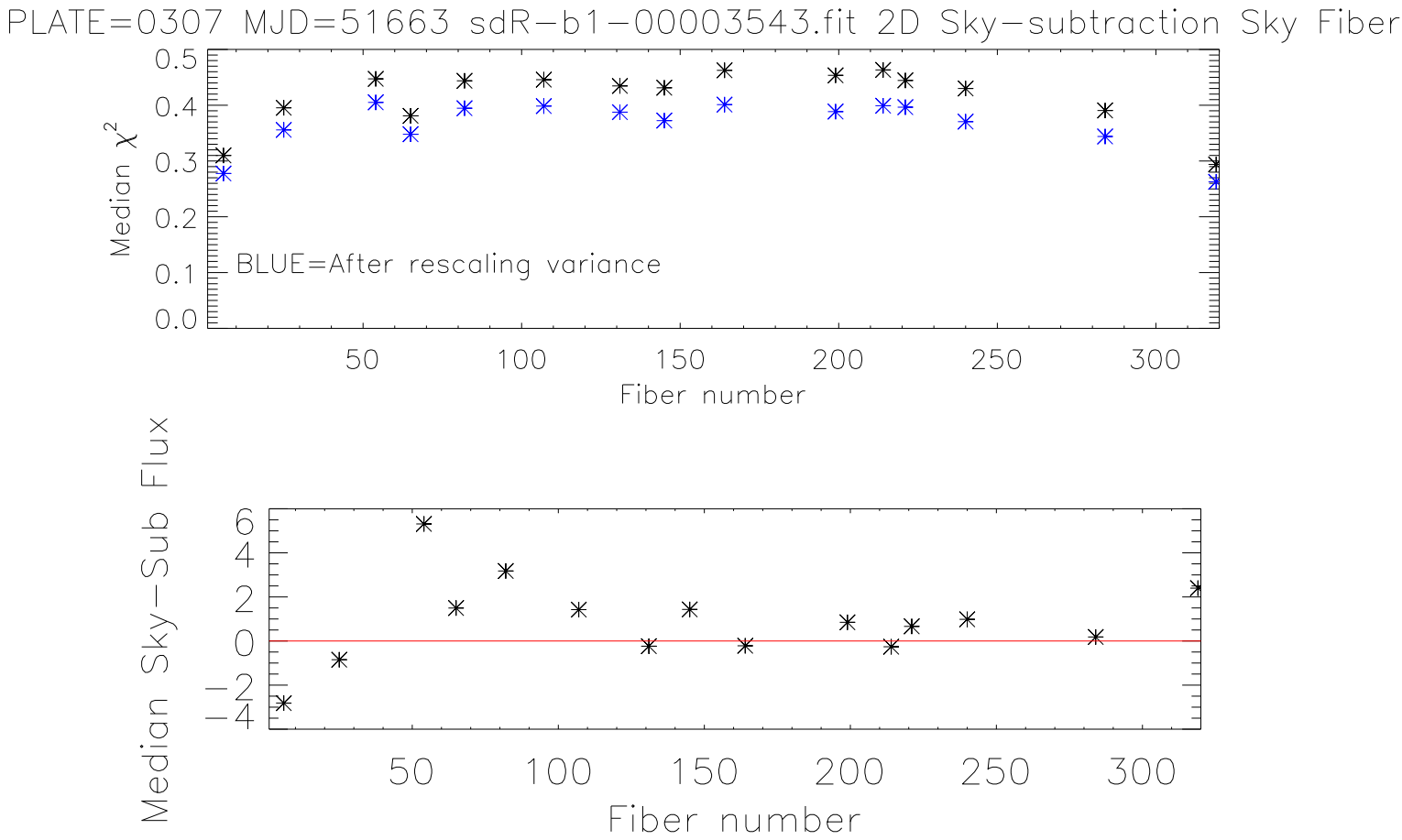

PLATE=0307 MJD=51663 Smooth superflat for sdR-b1-00003543.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
es= −0.0001
4000
4500
5000
5500
6000
Wavelength (Å)

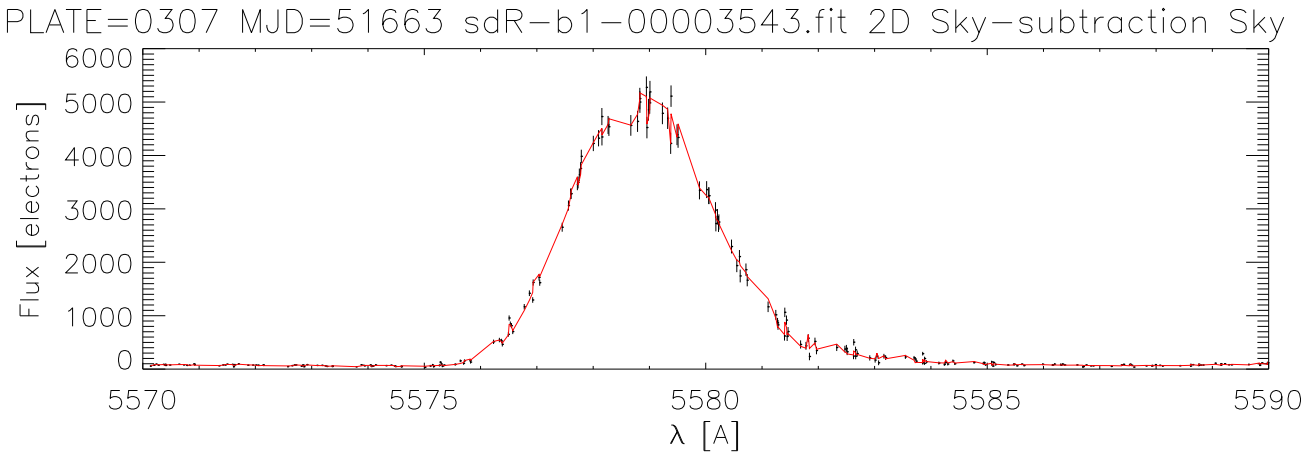

PLATE=0307 MJD=51663 sdR-b1-00003543.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
5
0
-5
-10
50
100
150
200
250
300
Fiber number

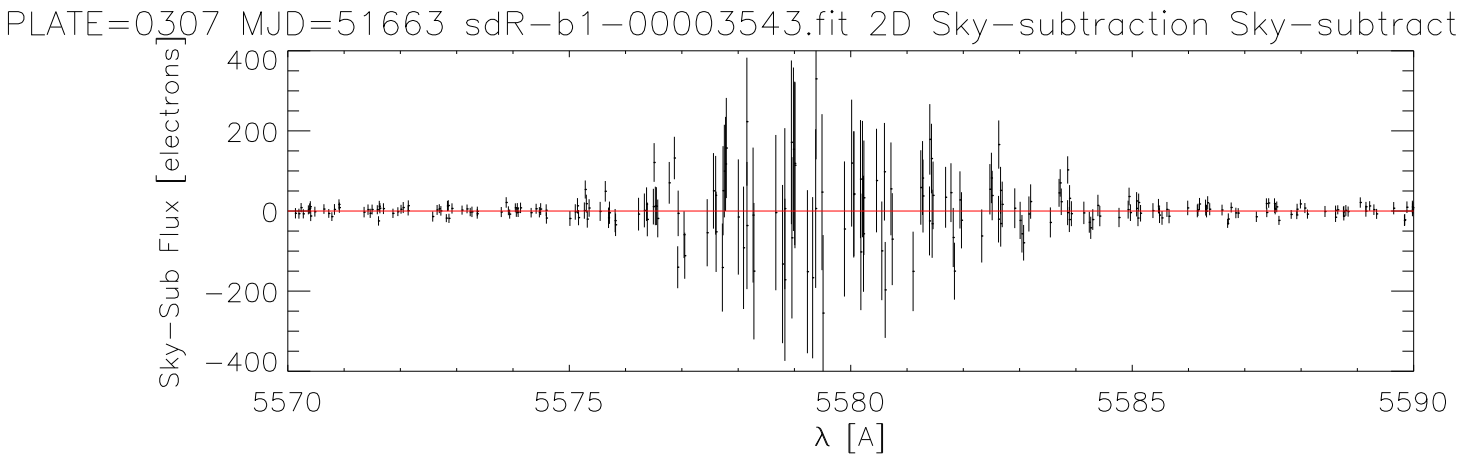

PLATE=0307 MJD=51663 sdR-b1-00003543.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

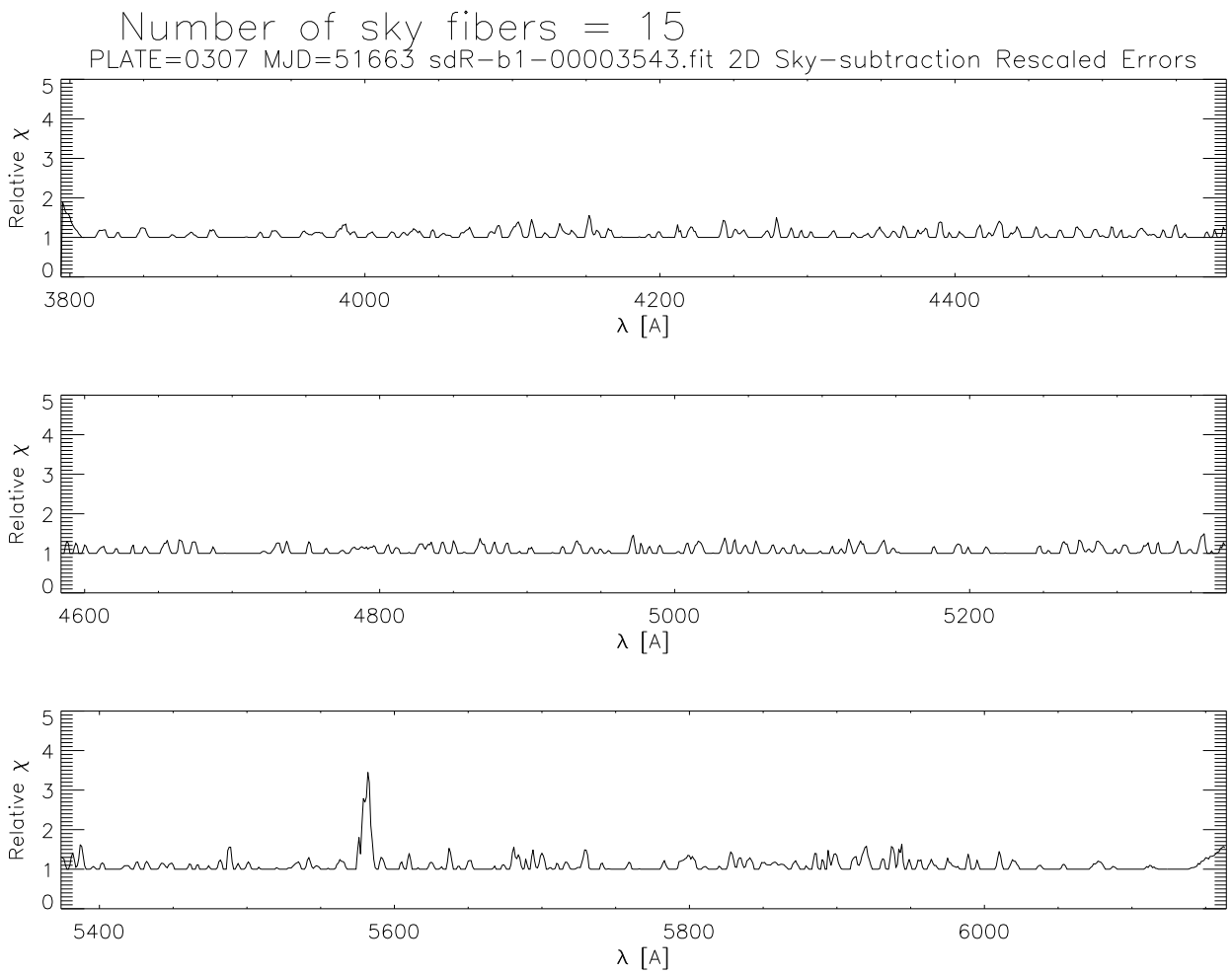

PLATE=0307 MJD=51663 sdR-b1-00003543.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

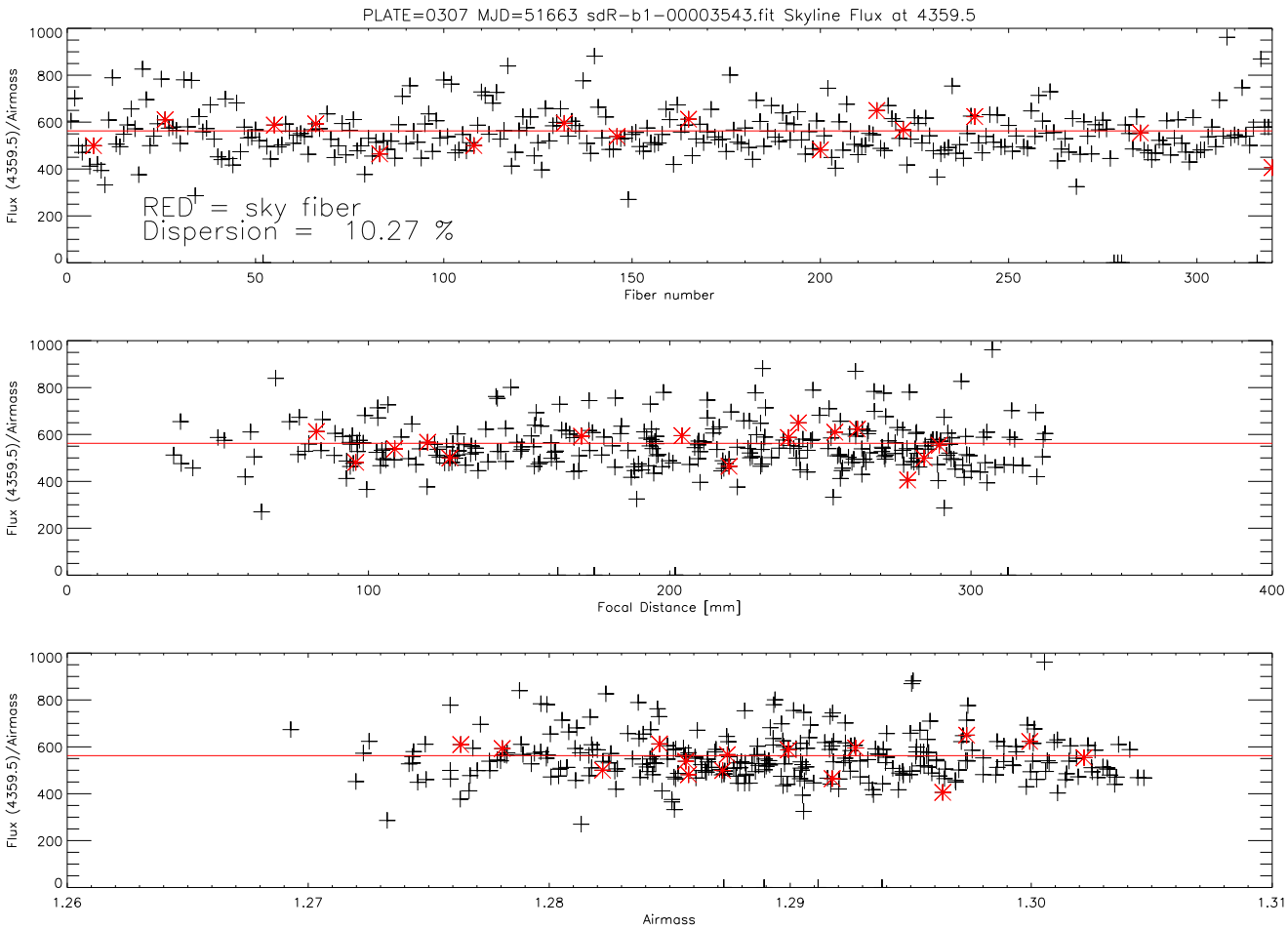

Number of sky fibers = 15
PLATE=0307 MJD=51663 sdR-b1-00003543.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

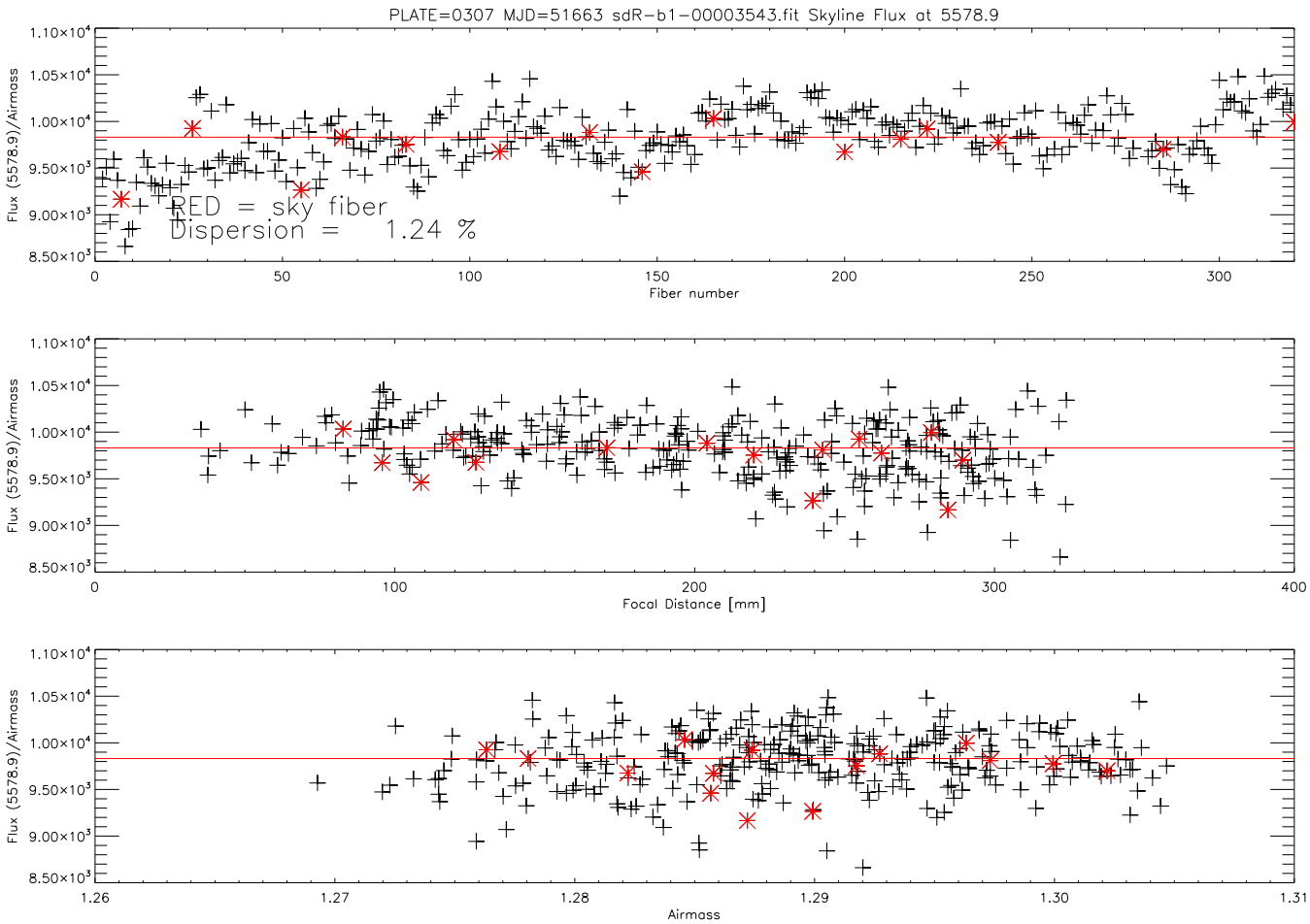

PLATE=0307 MJD=51663 sdR-b1-00003543.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

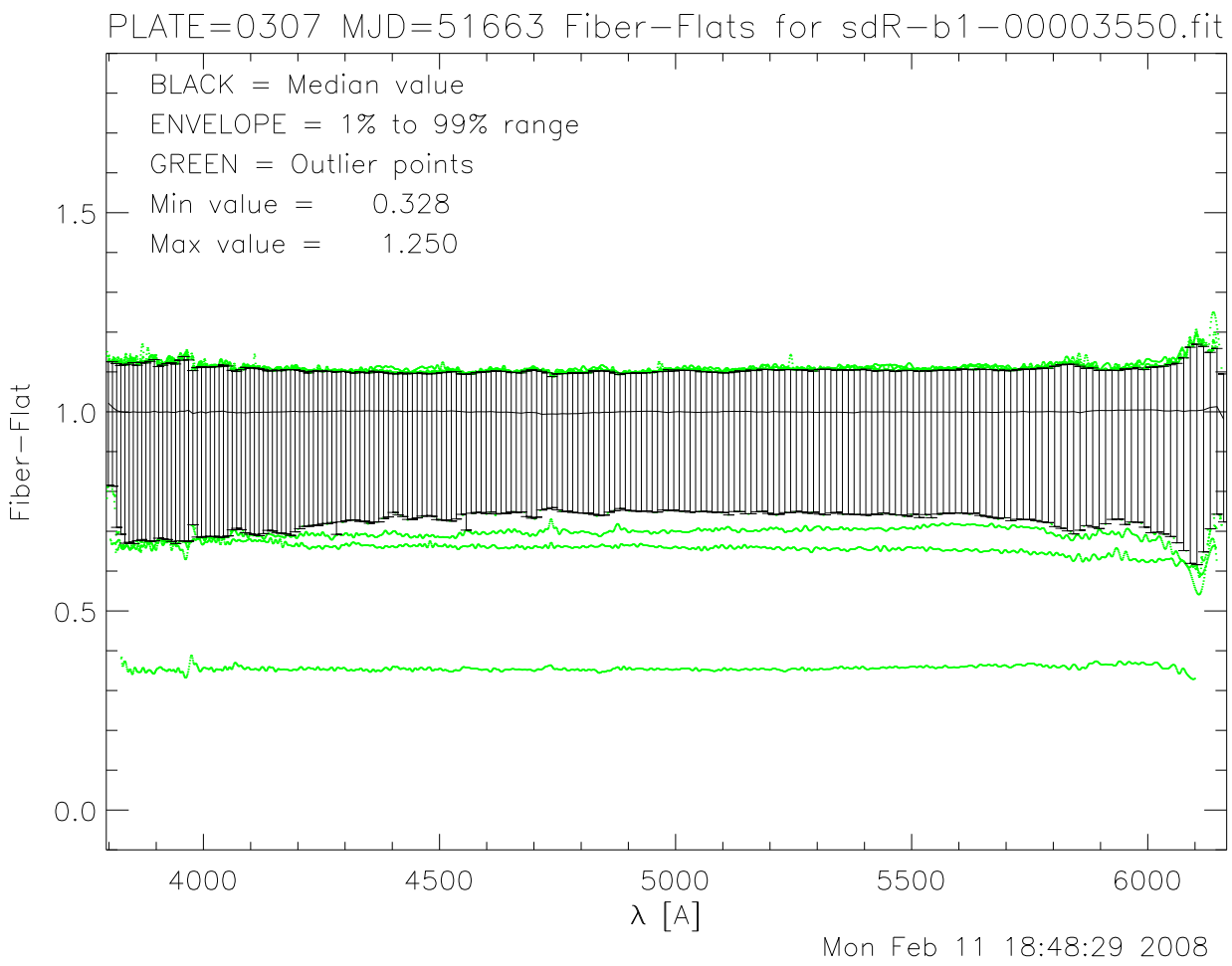

PLATE=0307 MJD=51663 sdR-b1-00003543.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

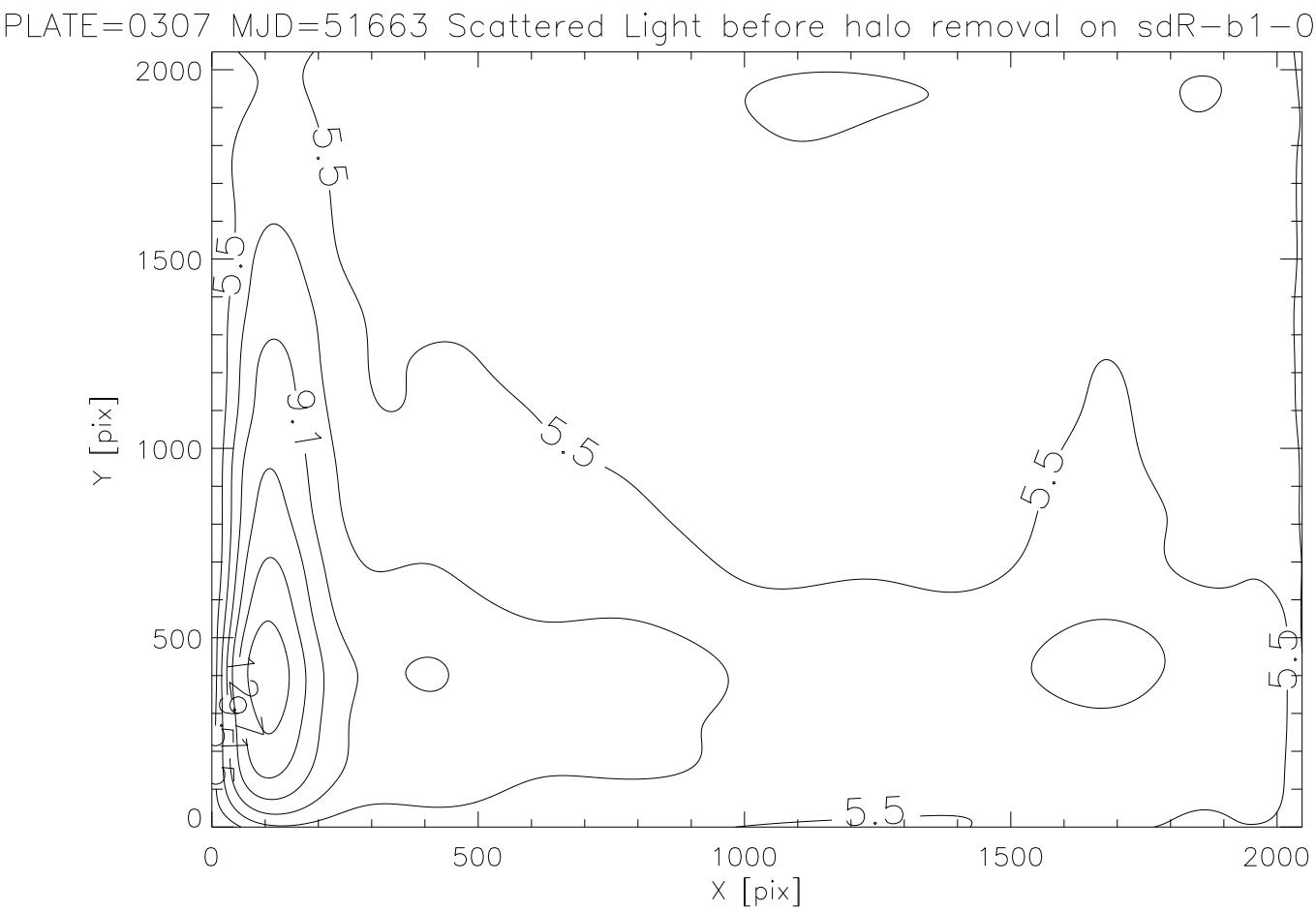

PLATE=0307 MJD=51663 sdR-b1-00003543.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

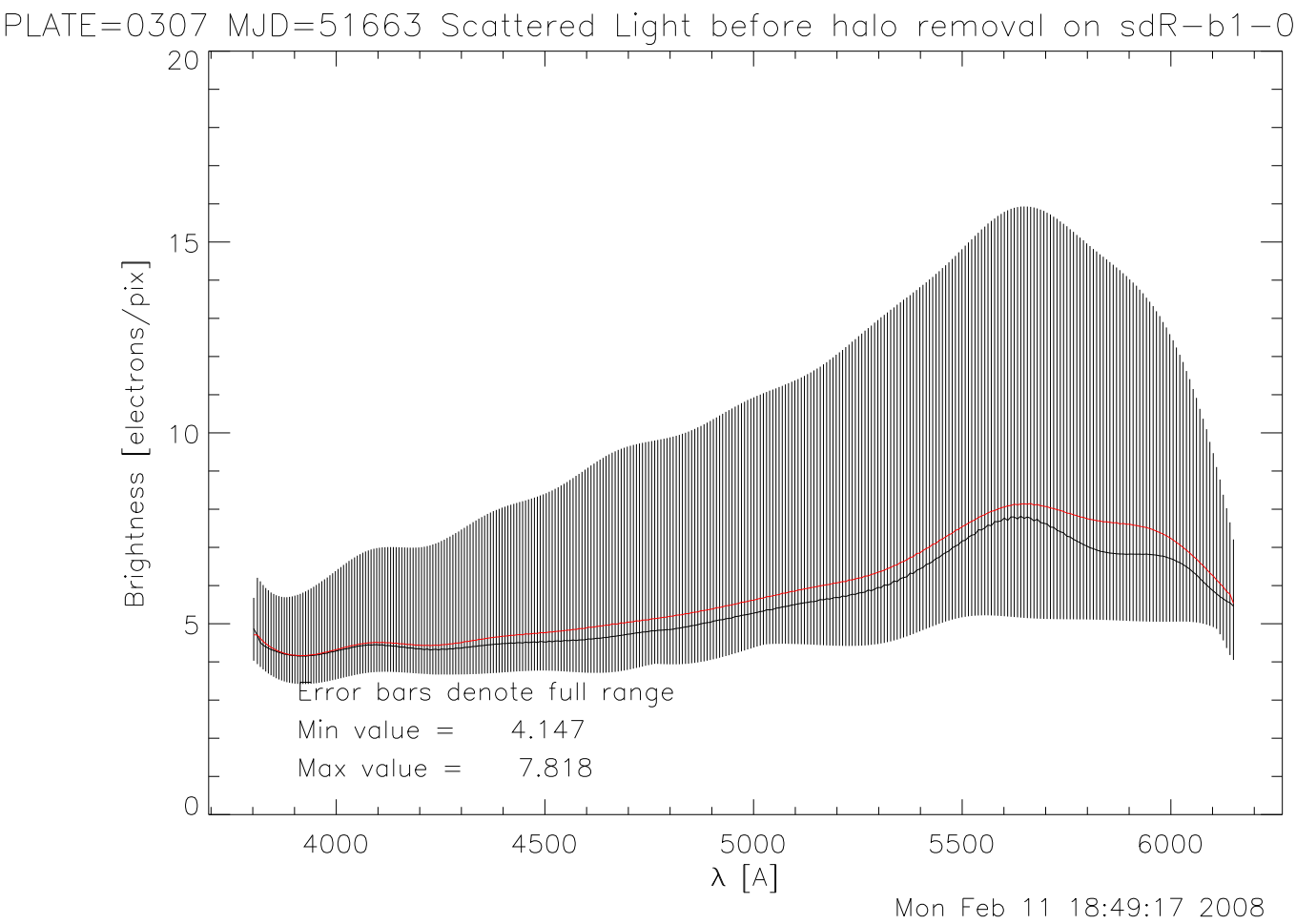

Number of sky fibers = 15
PLATE=0307 MJD=51663 sdR-b1-00003543.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

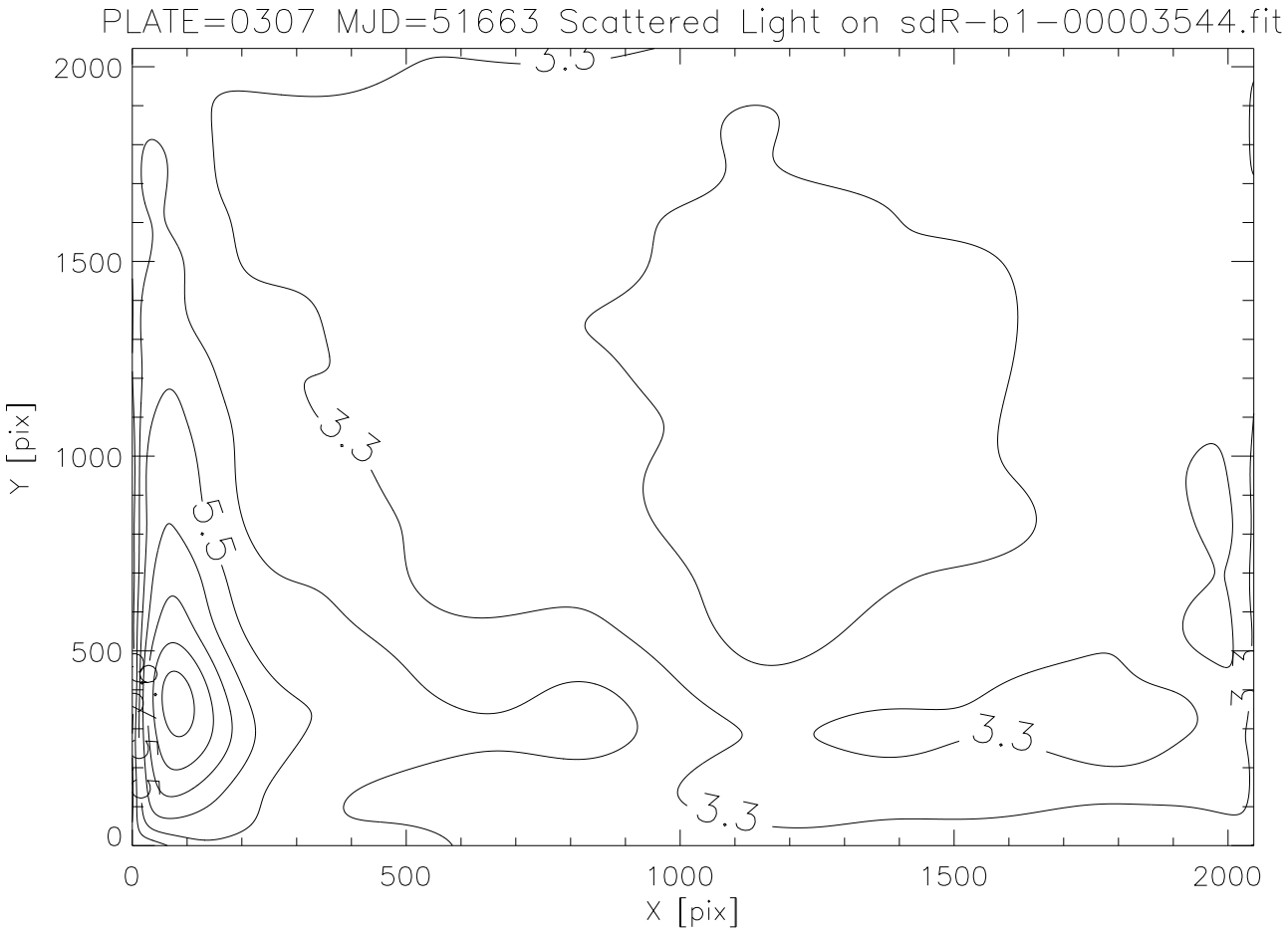

PLATE=0307 MJD=51663 sdR-b1-00003543.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 10.27 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

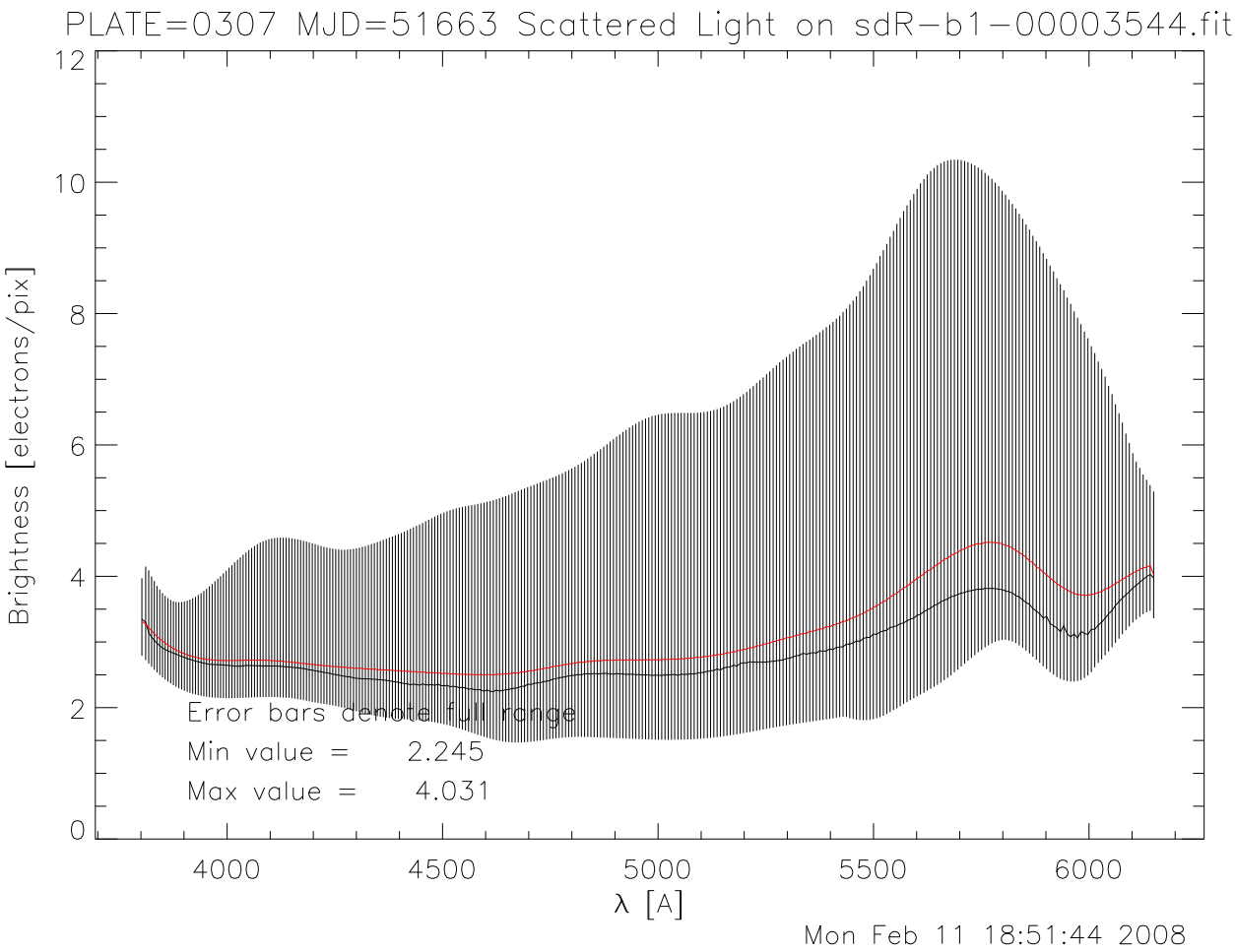

PLATE=0307 MJD=51663 sdR-b1-00003543.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.24 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

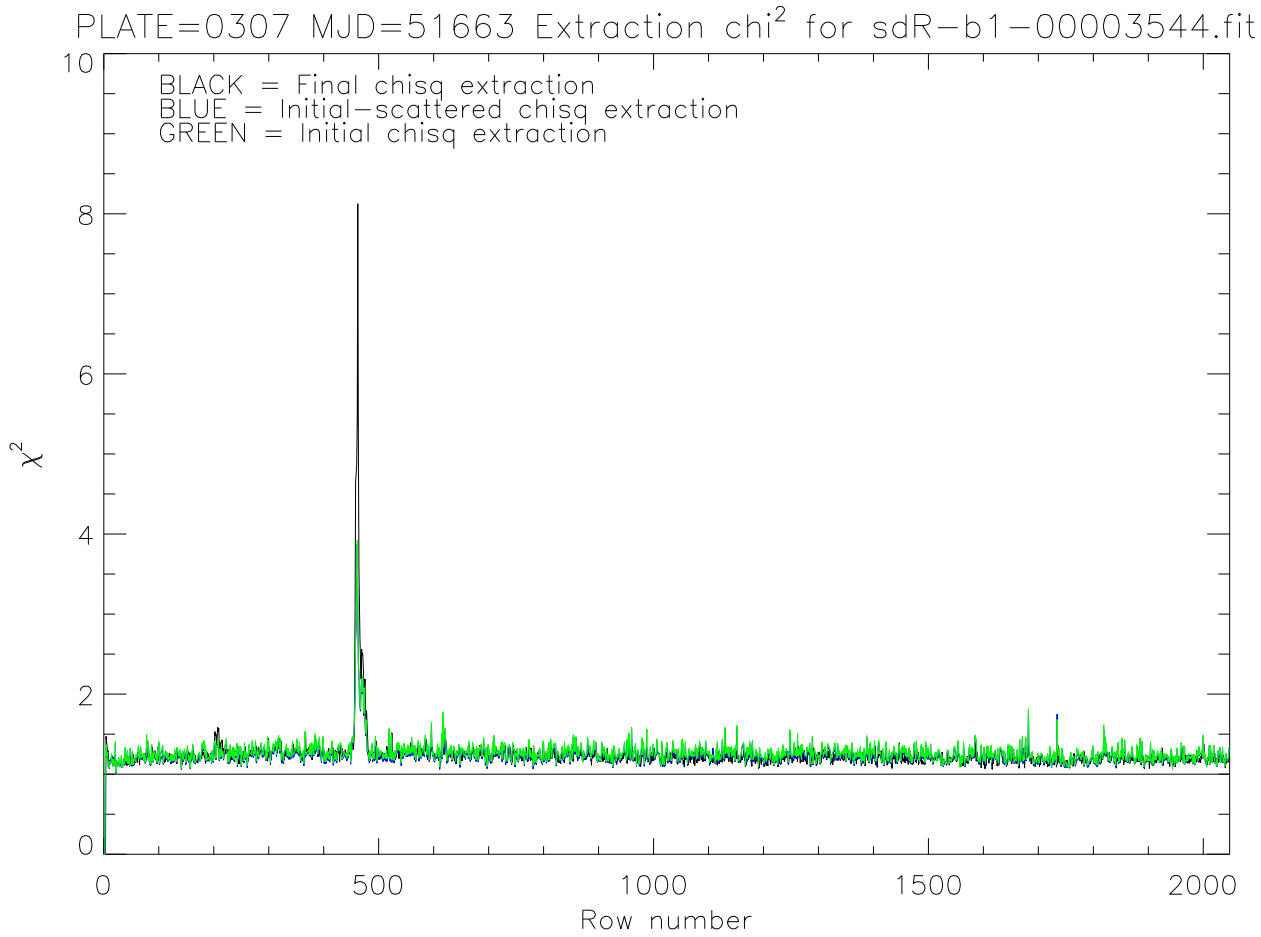

PLATE=0307 MJD=51663 Fiber-Flats for sdR-b1-00003550.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.328
Max value = 1.250
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 18:48:29 2008

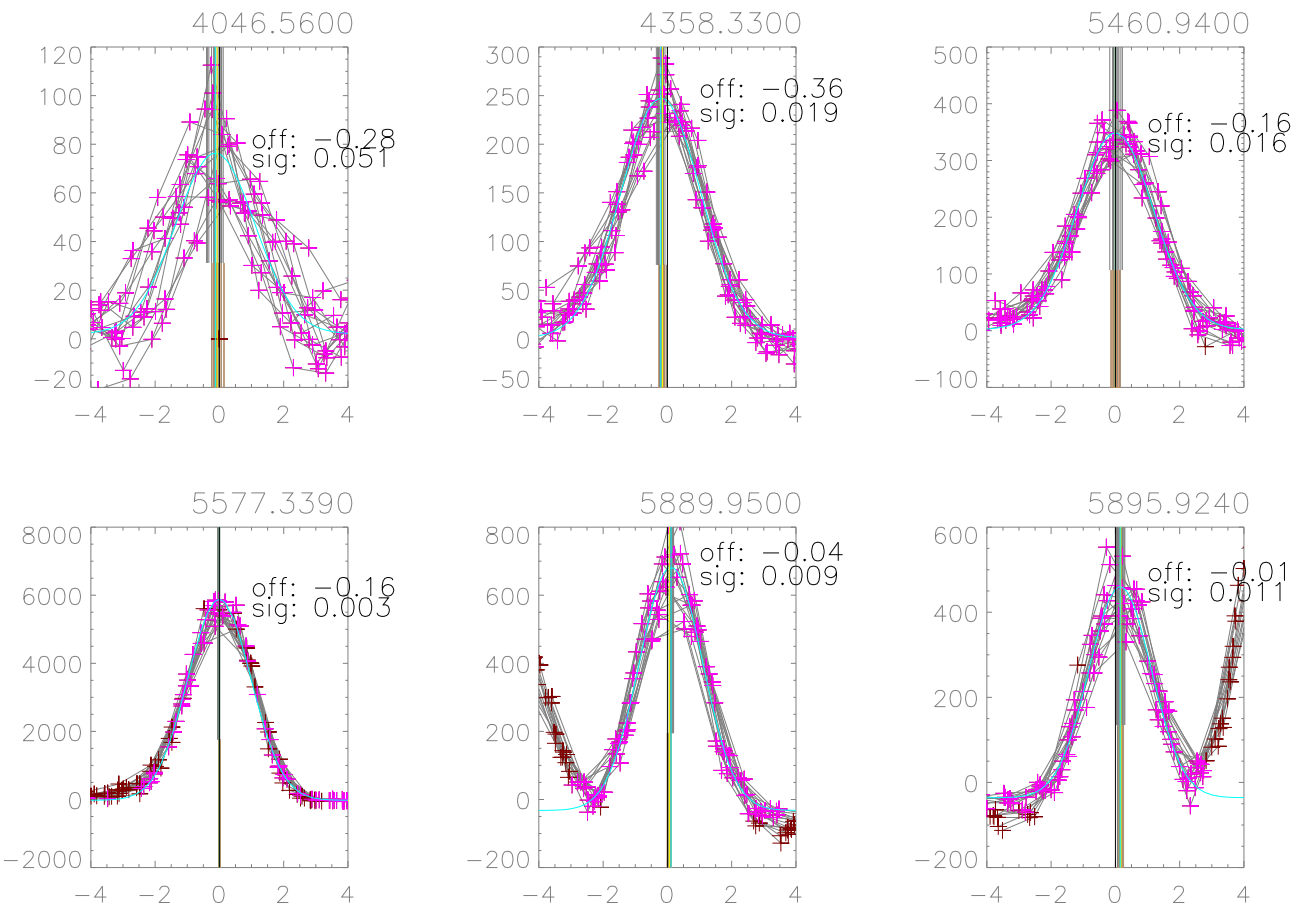

PLATE=0307 MJD=51663 Scattered Light before halo removal on sdR−b1−00003544.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
5.5
5.5
5.5
5.5
5.5
5.5
9.1
5.5
5.5
5.5
5.5
5.5

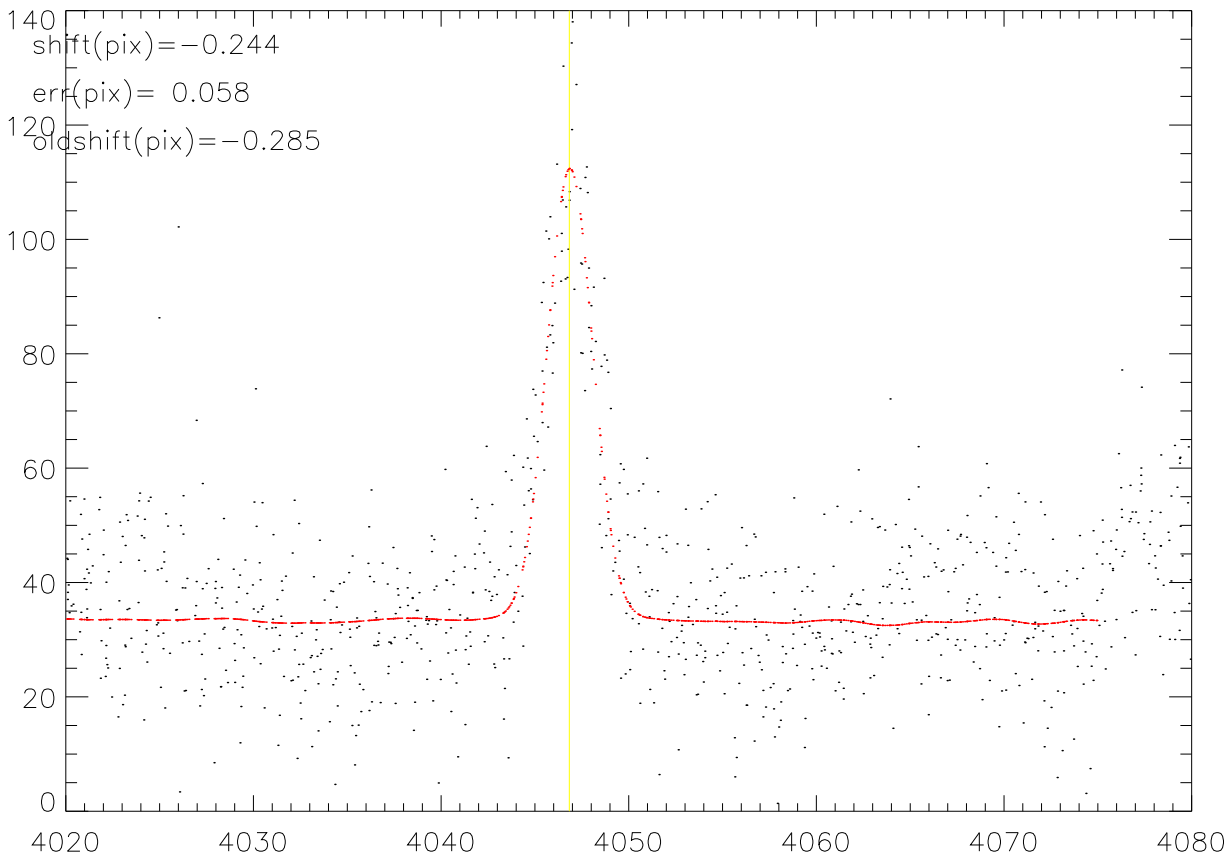

PLATE=0307 MJD=51663 Scattered Light before halo removal on sdR-b1-00003544.f
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 4.147
Max value = 7.818
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 18:49:17 2008

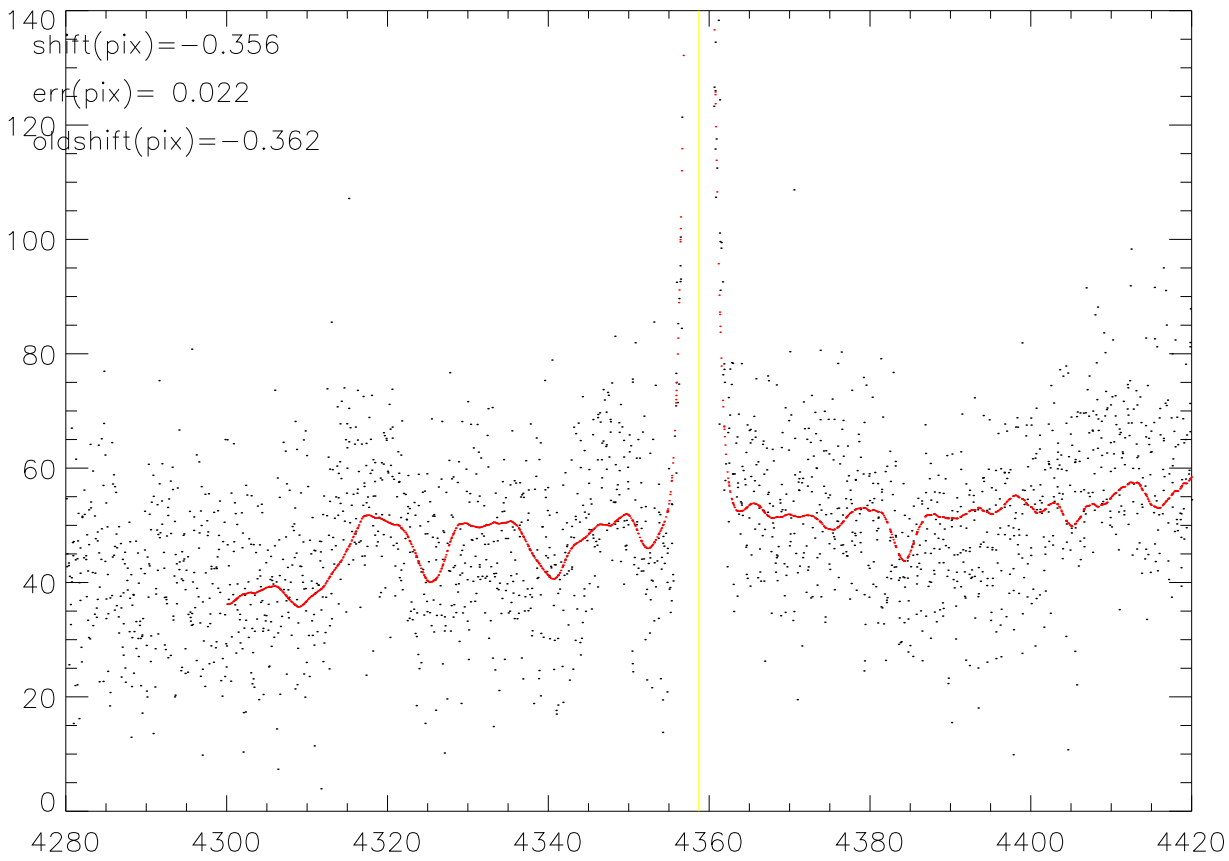

PLATE=0307 MJD=51663 Scattered Light on sdR-b1-00003544.fit
3.3
3.3
5.5
3.3
3.3
Y [pix]
X [pix]
0
500
1000
1500
2000

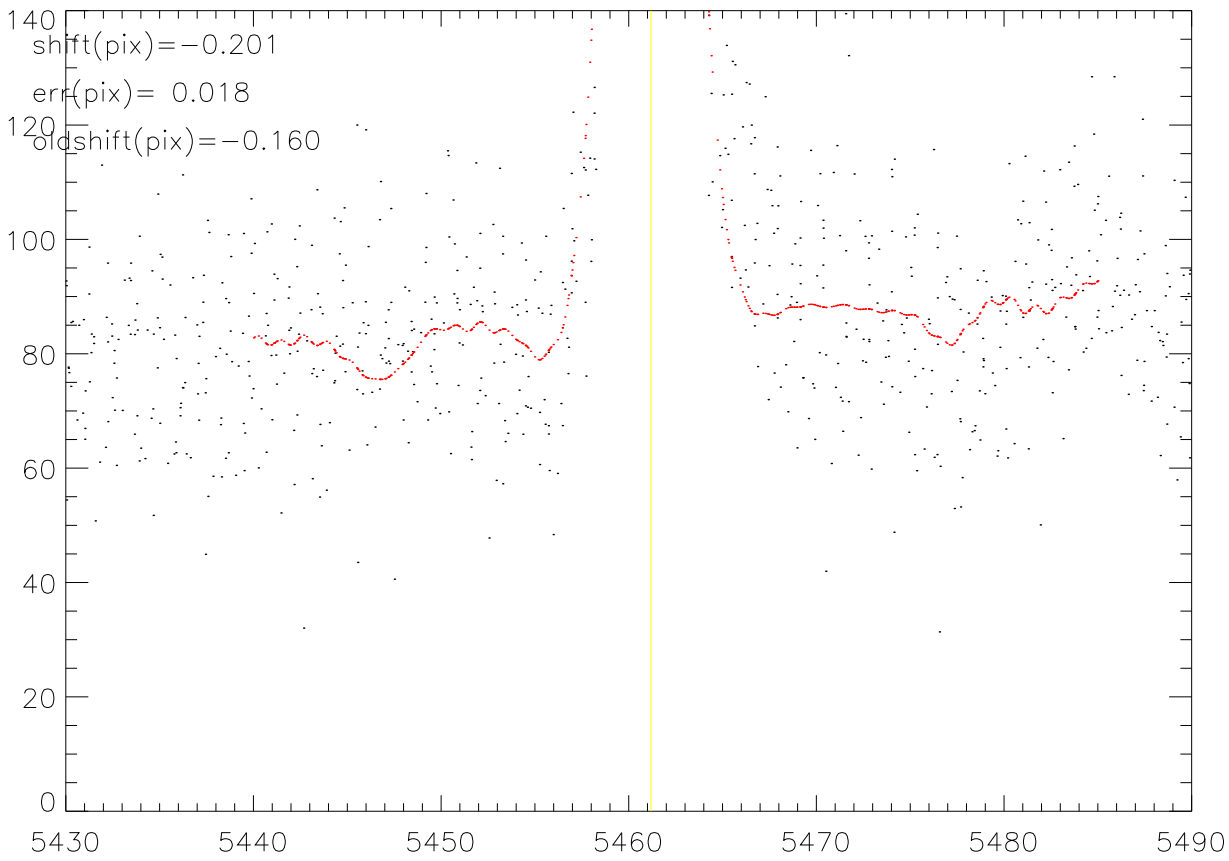

PLATE=0307 MJD=51663 Scattered Light on sdR-b1-00003544.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 2.245
Max value = 4.031
Mon Feb 11 18:51:44 2008

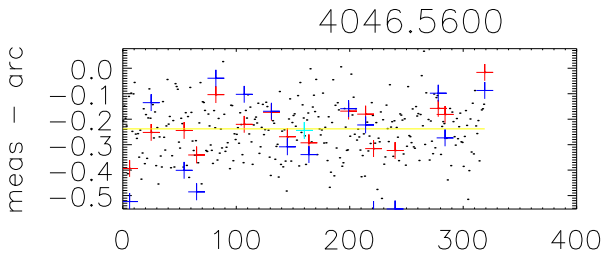

PLATE=0307 MJD=51663 Extraction chi^2 for sdR-b1-00003544.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

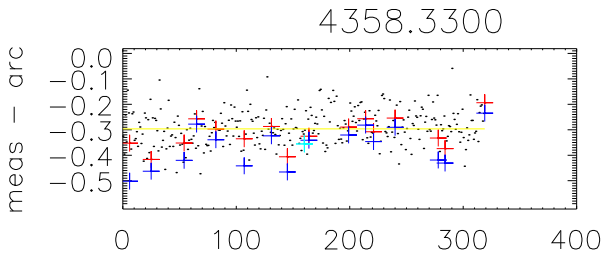

4046.5600
off: −0.28
sig: 0.051
4358.3300
off: −0.36
sig: 0.019
5460.9400
off: −0.16
sig: 0.016
5577.3390
off: −0.16
sig: 0.003
5889.9500
off: −0.04
sig: 0.009
5895.9240
off: −0.01
sig: 0.011

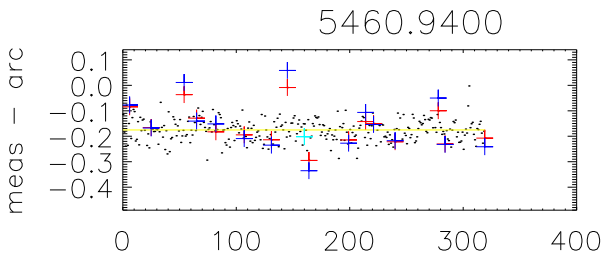

shift(pix)=−0.244
err(pix)= 0.058
oldshift(pix)=−0.285
140
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

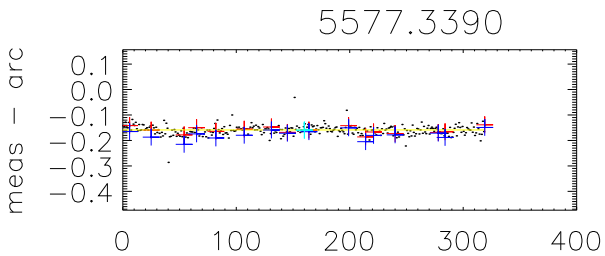

shift(pix)=−0.356
err(pix)= 0.022
oldshift(pix)=−0.362
140
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

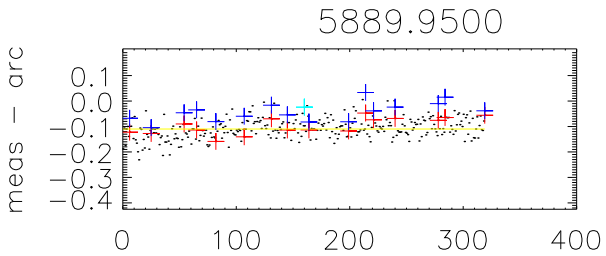

shift(pix)=−0.201
err(pix)= 0.018
oldshift(pix)=−0.160
140
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

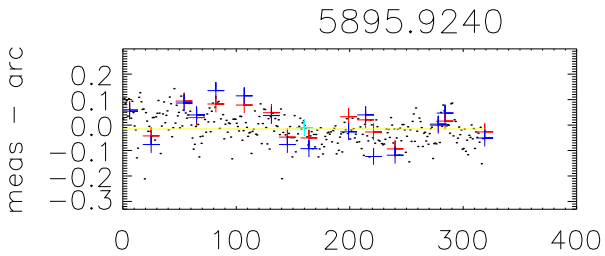

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

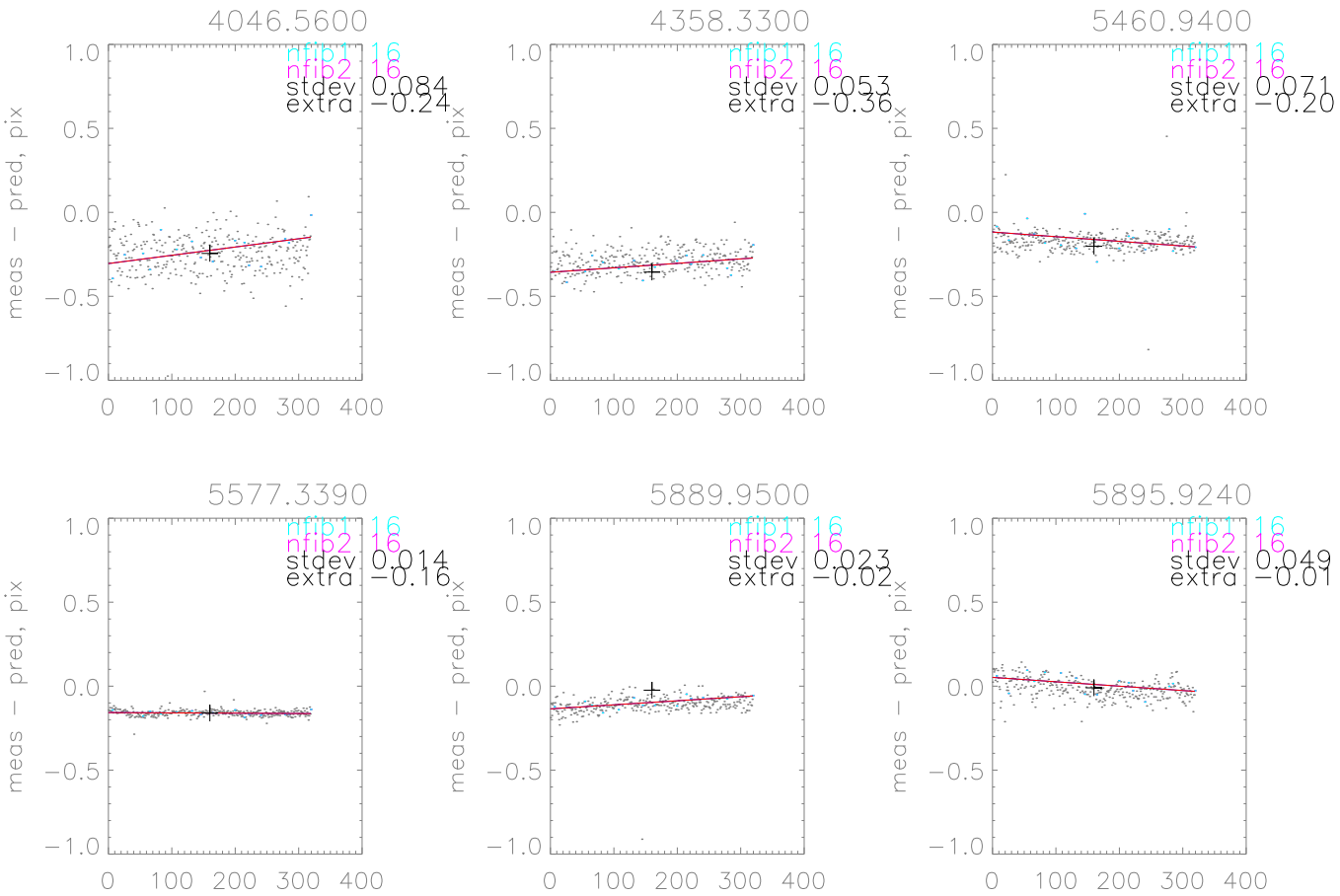

4358.3300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

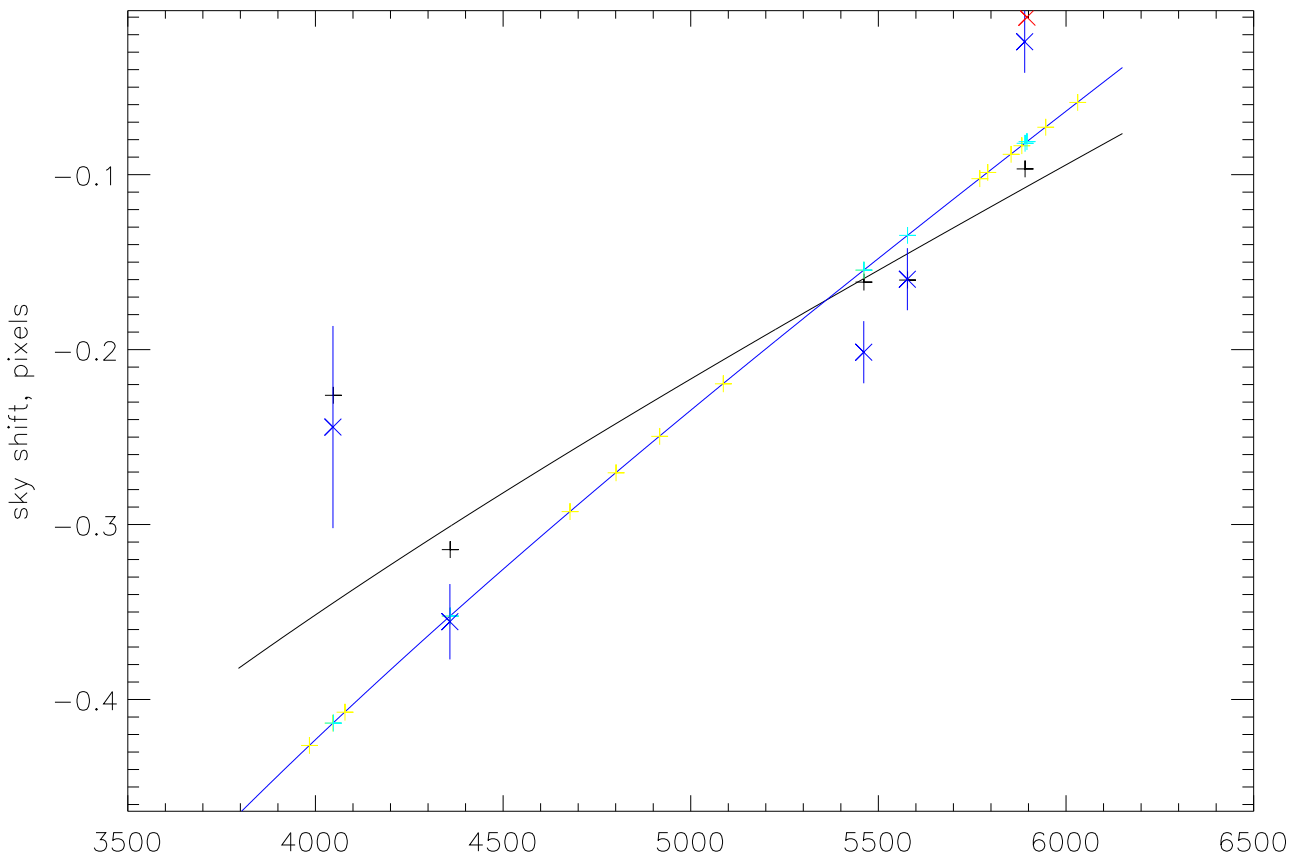

5460.9400
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

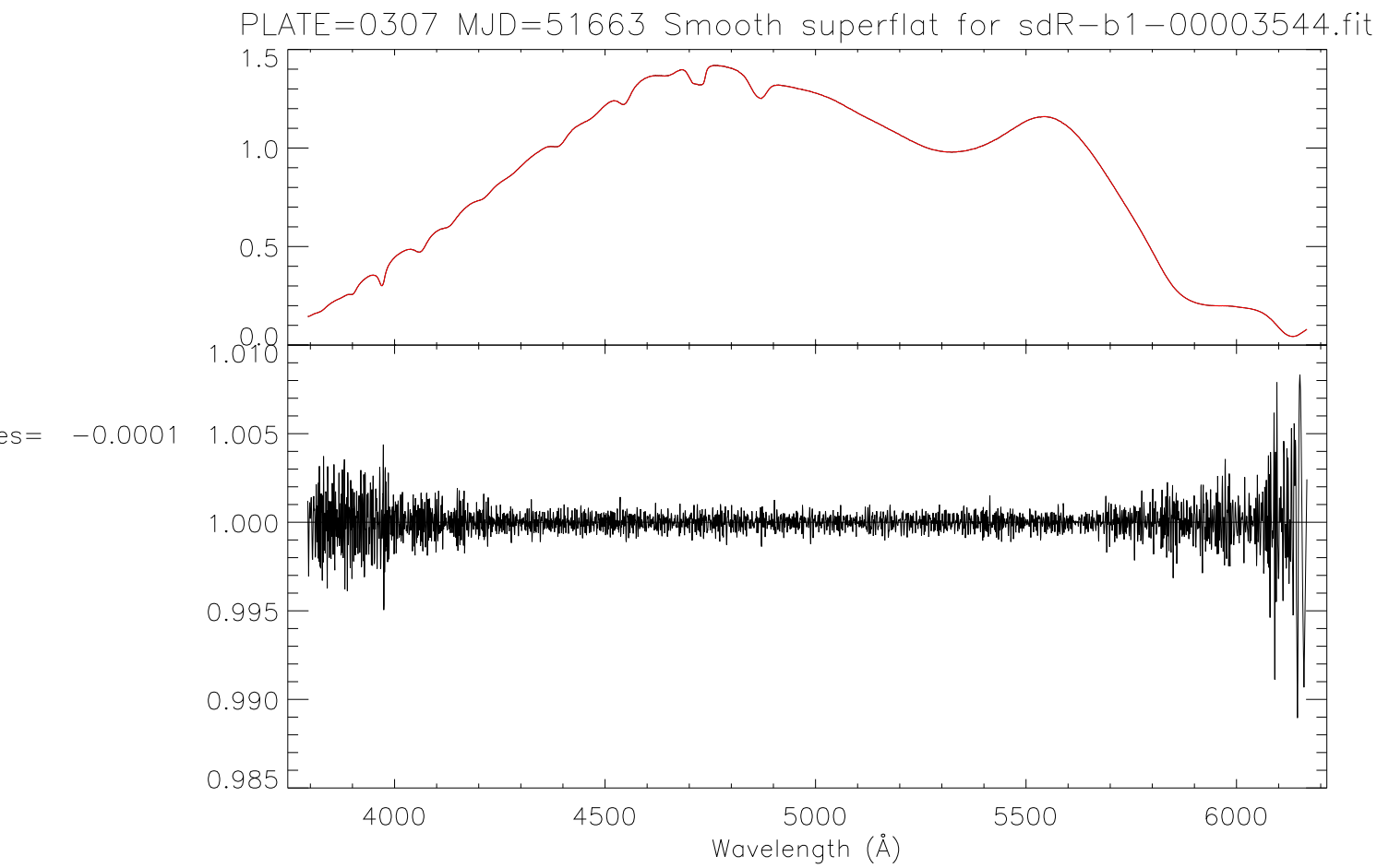

5577.3390
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


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

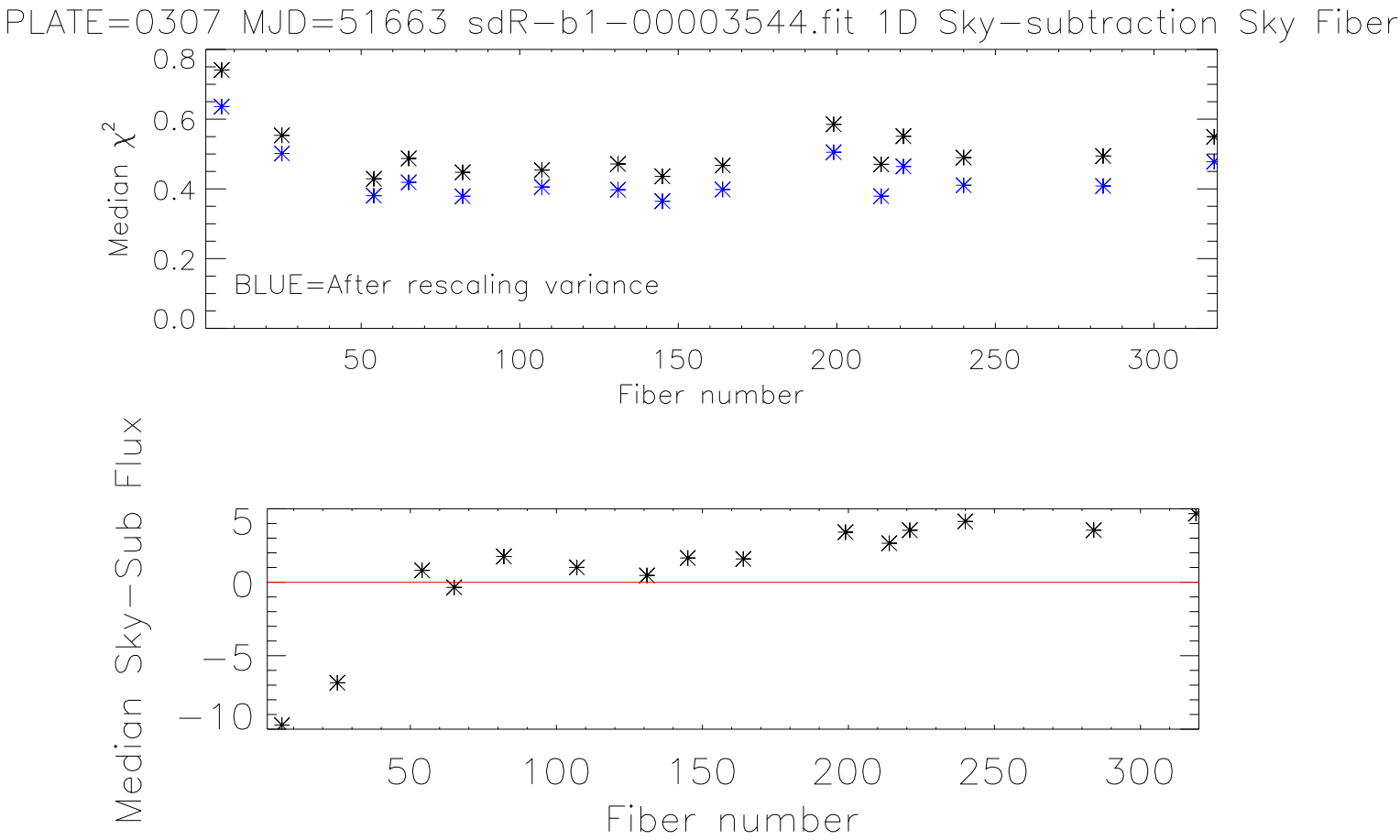

5895.9240
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

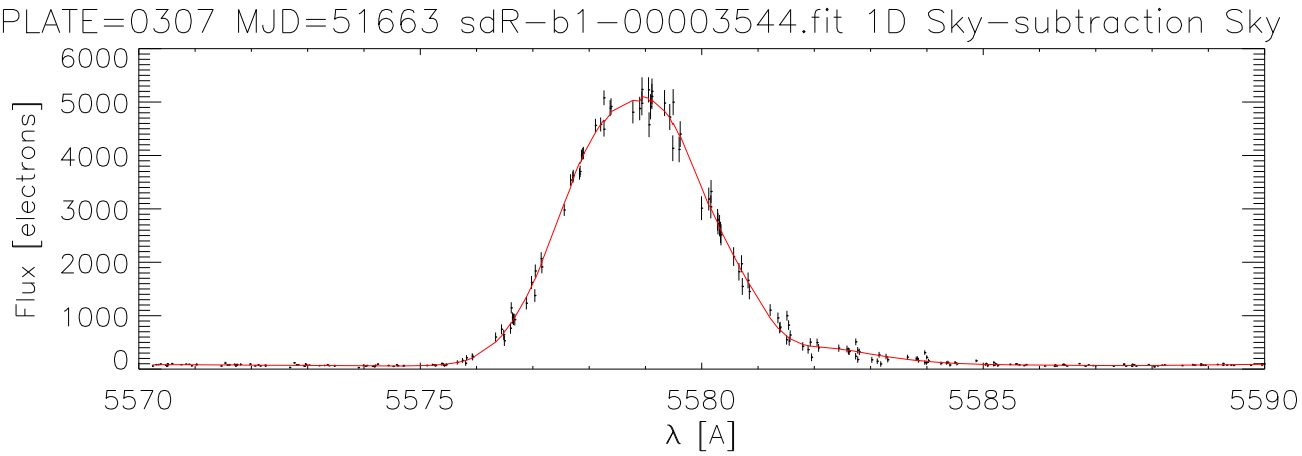

4046.5600
nfib1 16
nfib2 16
stdev 0.084
extra −0.24
4358.3300
nfib1 16
nfib2 16
stdev 0.053
extra −0.36
5460.9400
nfib1 16
nfib2 16
stdev 0.071
extra −0.20
5577.3390
nfib1 16
nfib2 16
stdev 0.014
extra −0.16
5889.9500
nfib1 16
nfib2 16
stdev 0.023
extra −0.02
5895.9240
nfib1 16
nfib2 16
stdev 0.049
extra −0.01
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

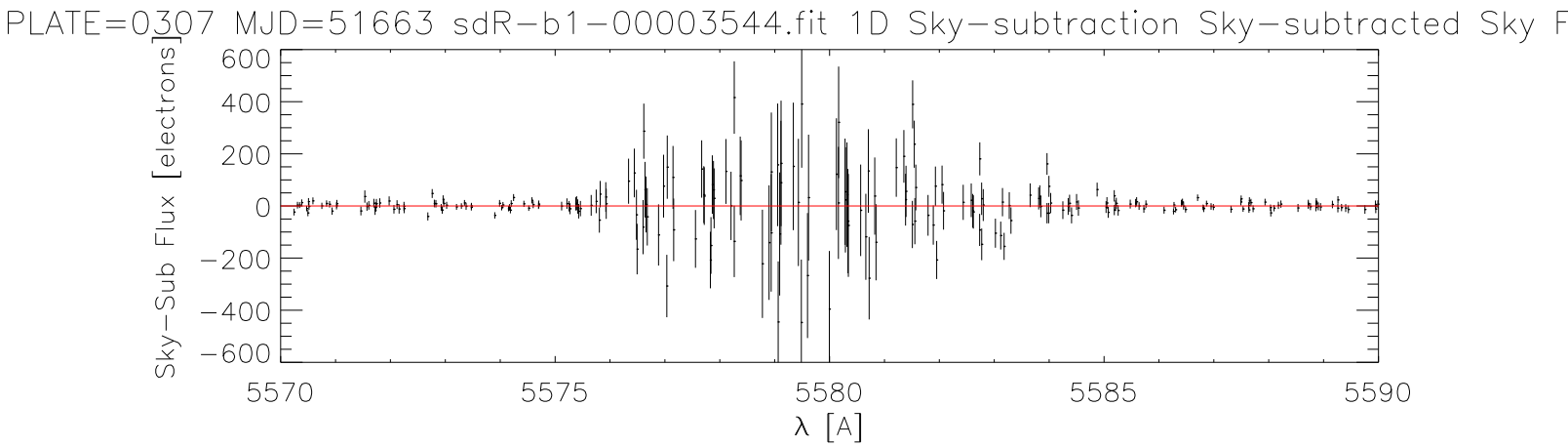

sky shift, pixels
−0.1
−0.2
−0.3
−0.4
3500
4000
4500
5000
5500
6000
6500

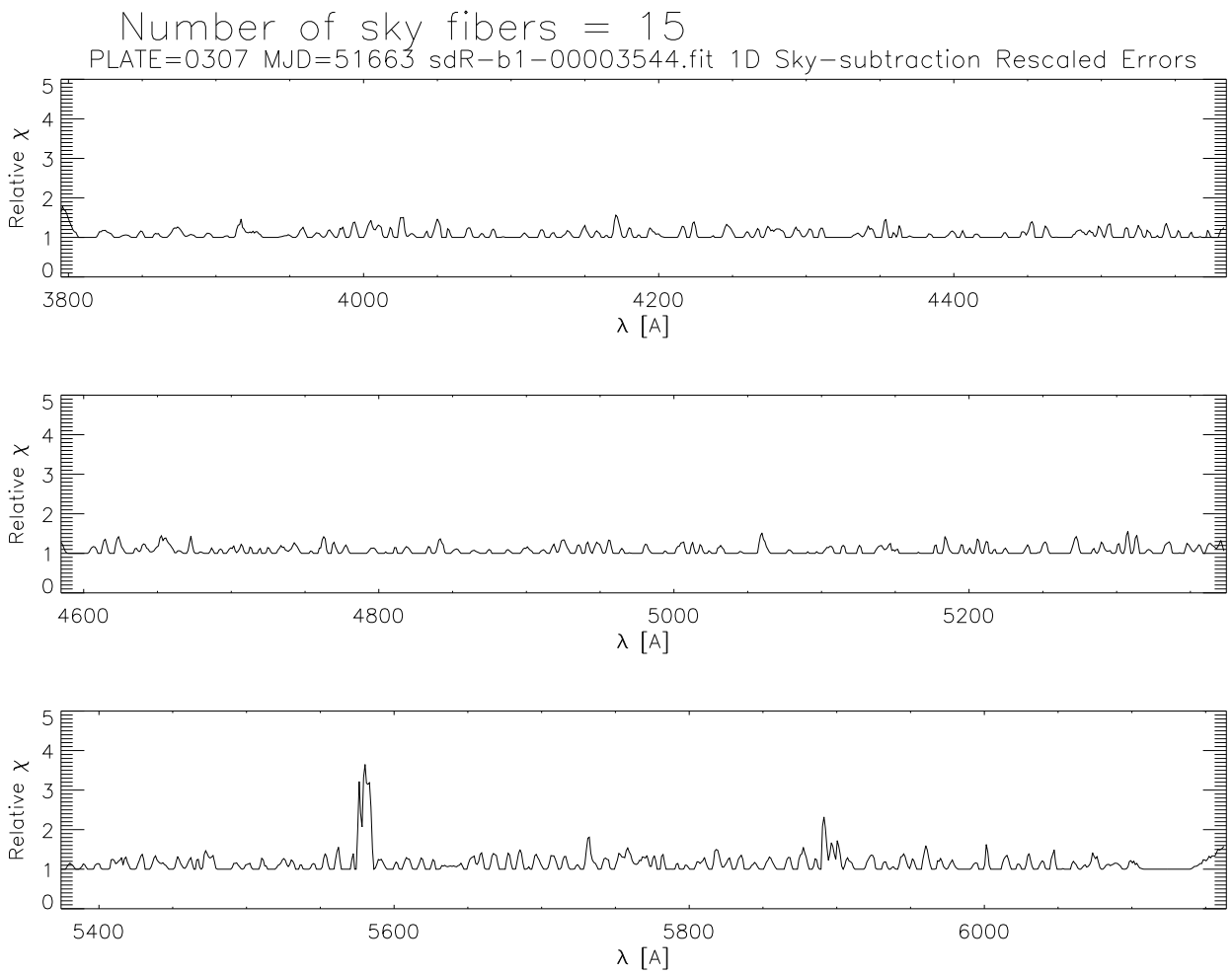

PLATE=0307 MJD=51663 Smooth superflat for sdR-b1-00003544.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
4000
4500
5000
5500
6000
Wavelength (Å)

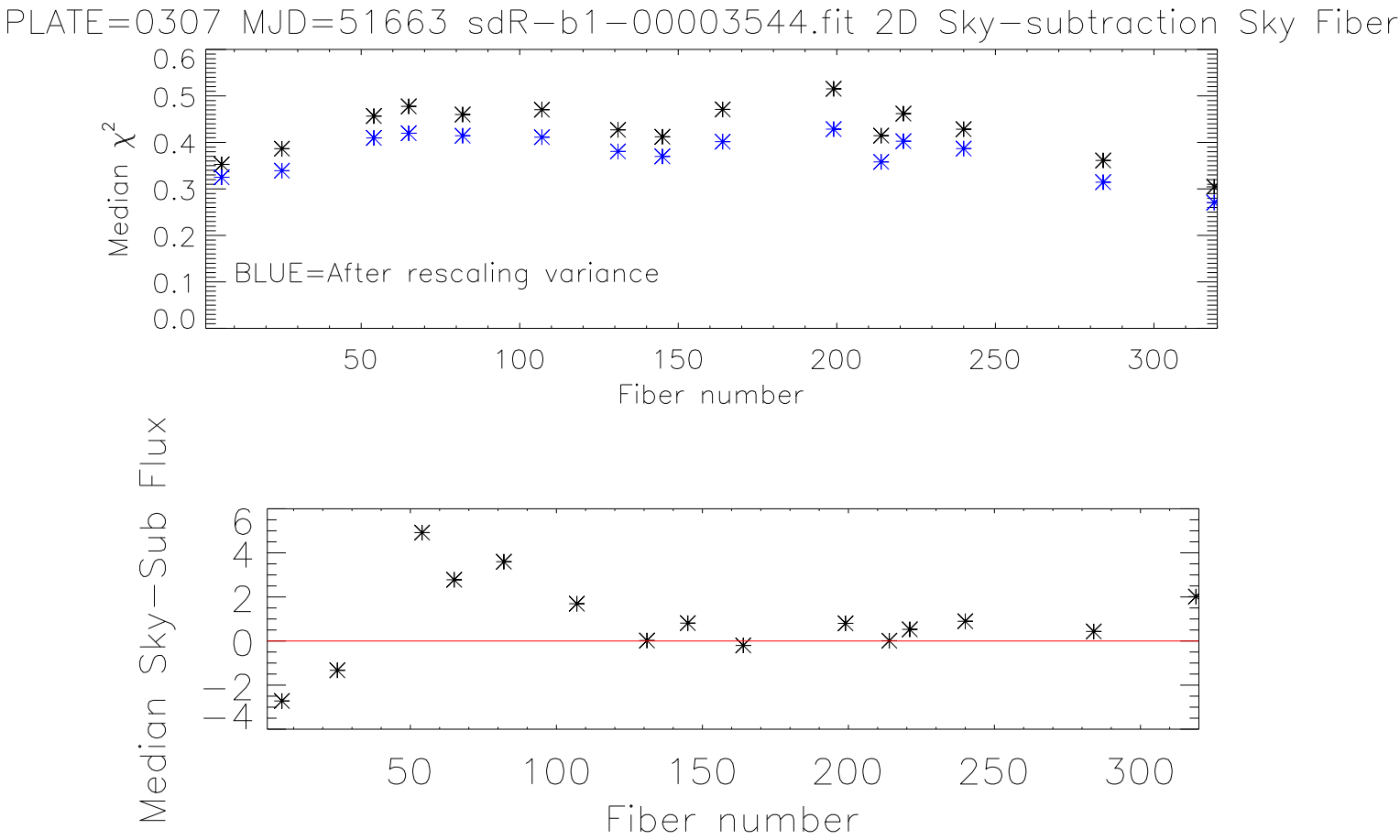
es= −0.0001

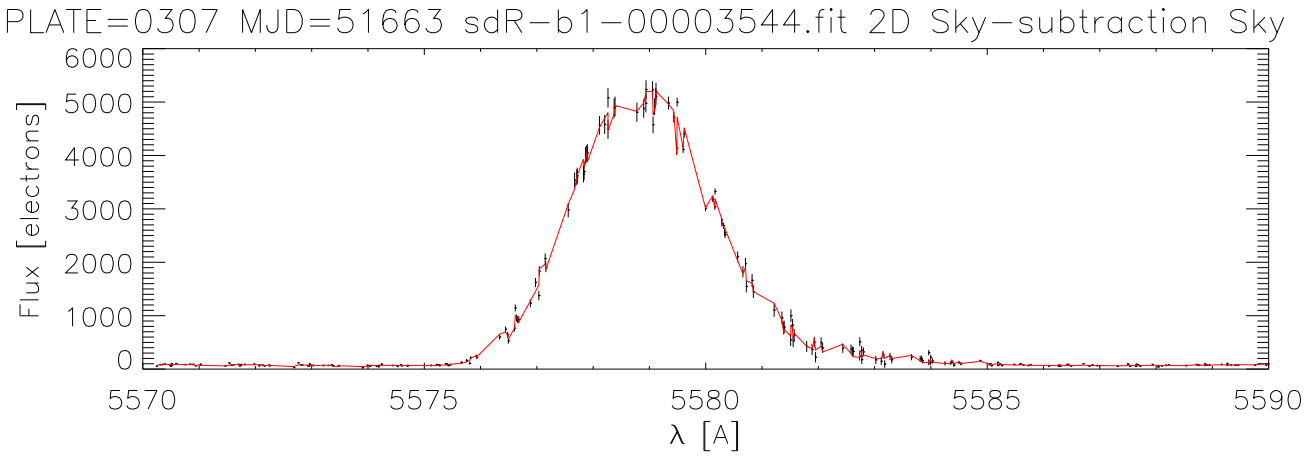

PLATE=0307 MJD=51663 sdR-b1-00003544.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
−10
−5
0
5
50
100
150
200
250
300
Fiber number

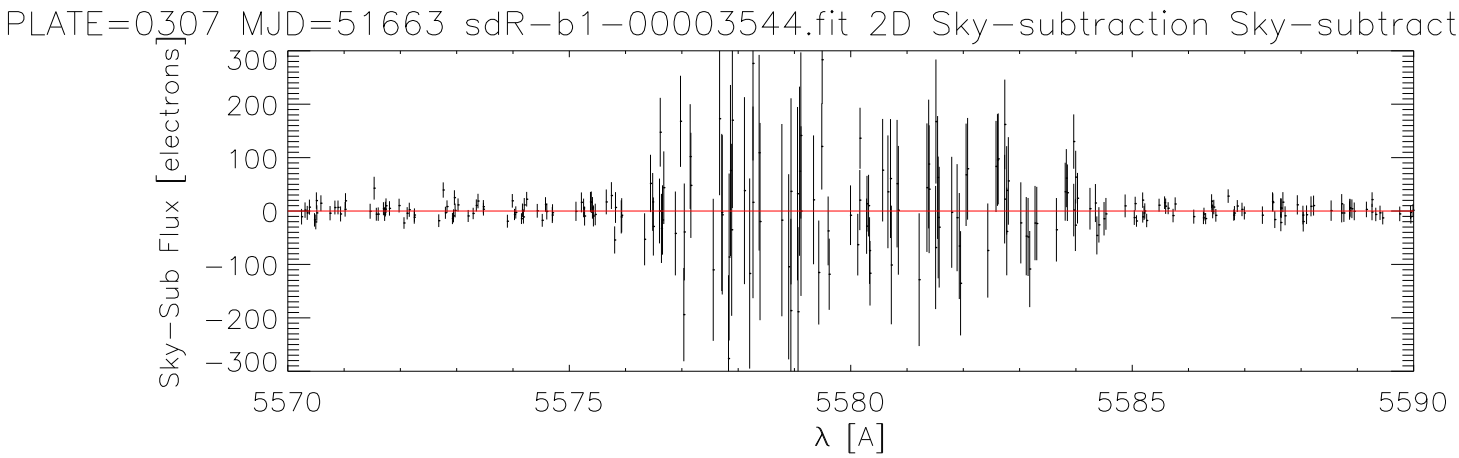

PLATE=0307 MJD=51663 sdR-b1-00003544.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

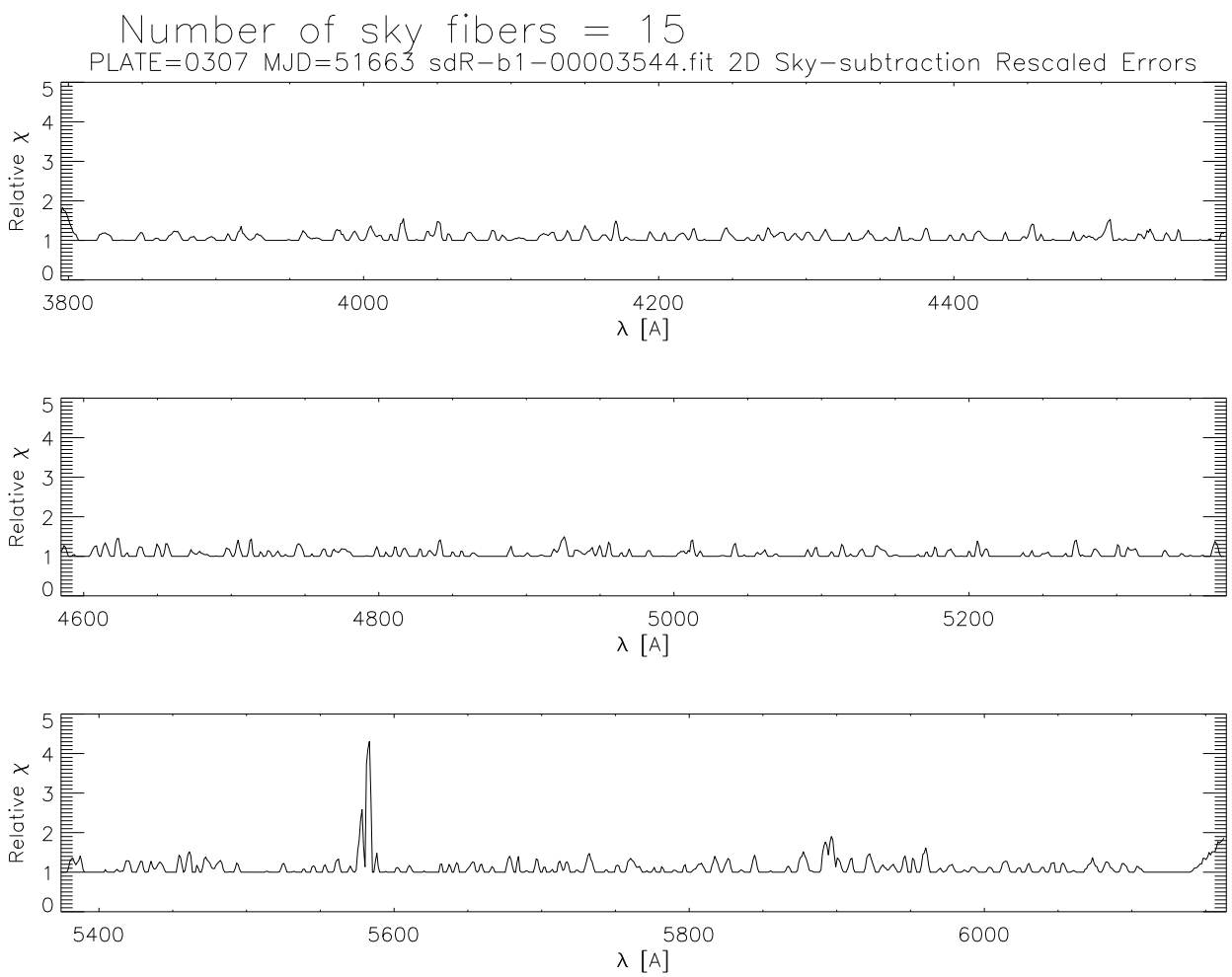

PLATE=0307 MJD=51663 sdR-b1-00003544.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

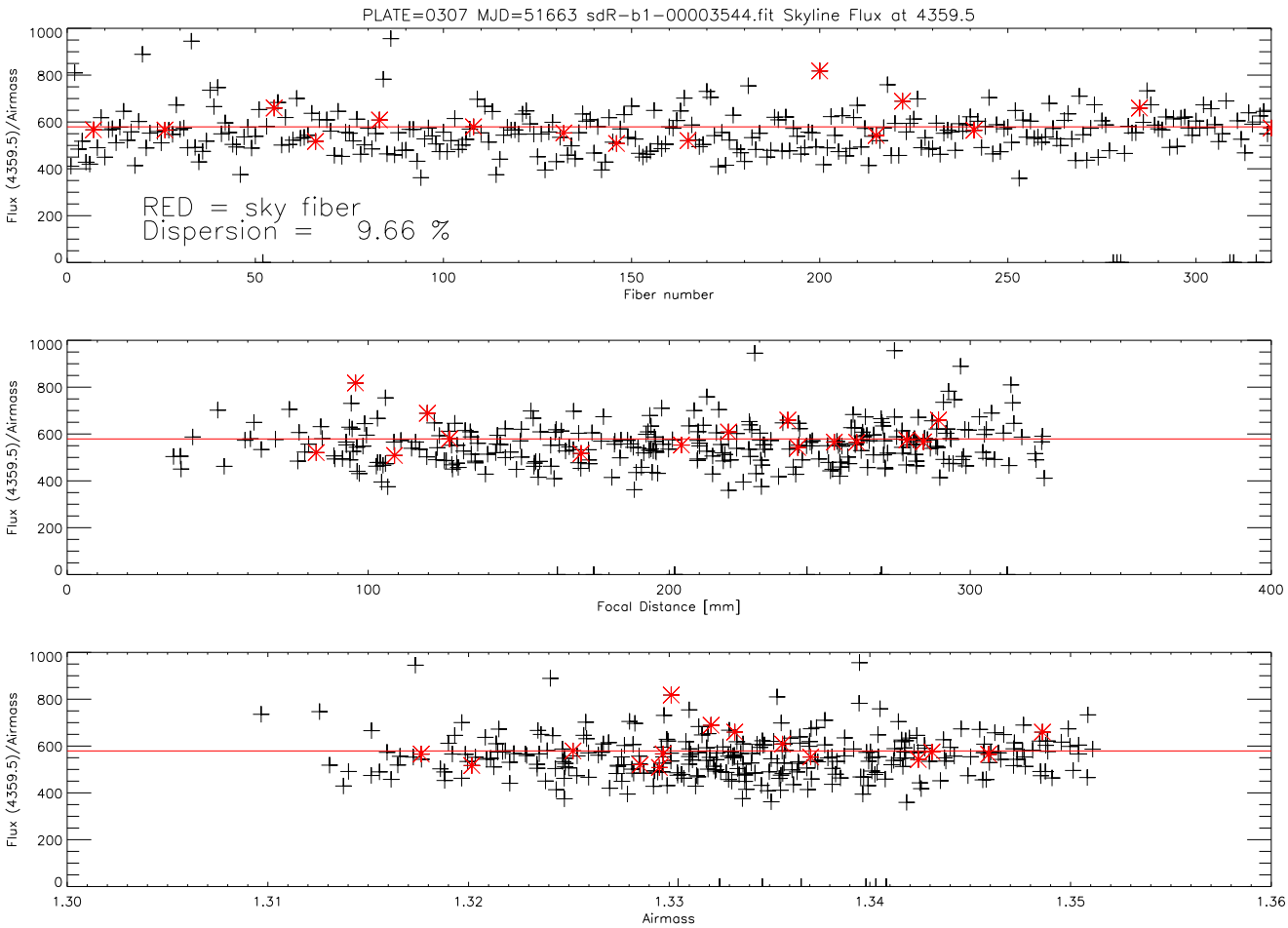

Number of sky fibers = 15
PLATE=0307 MJD=51663 sdR-b1-00003544.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

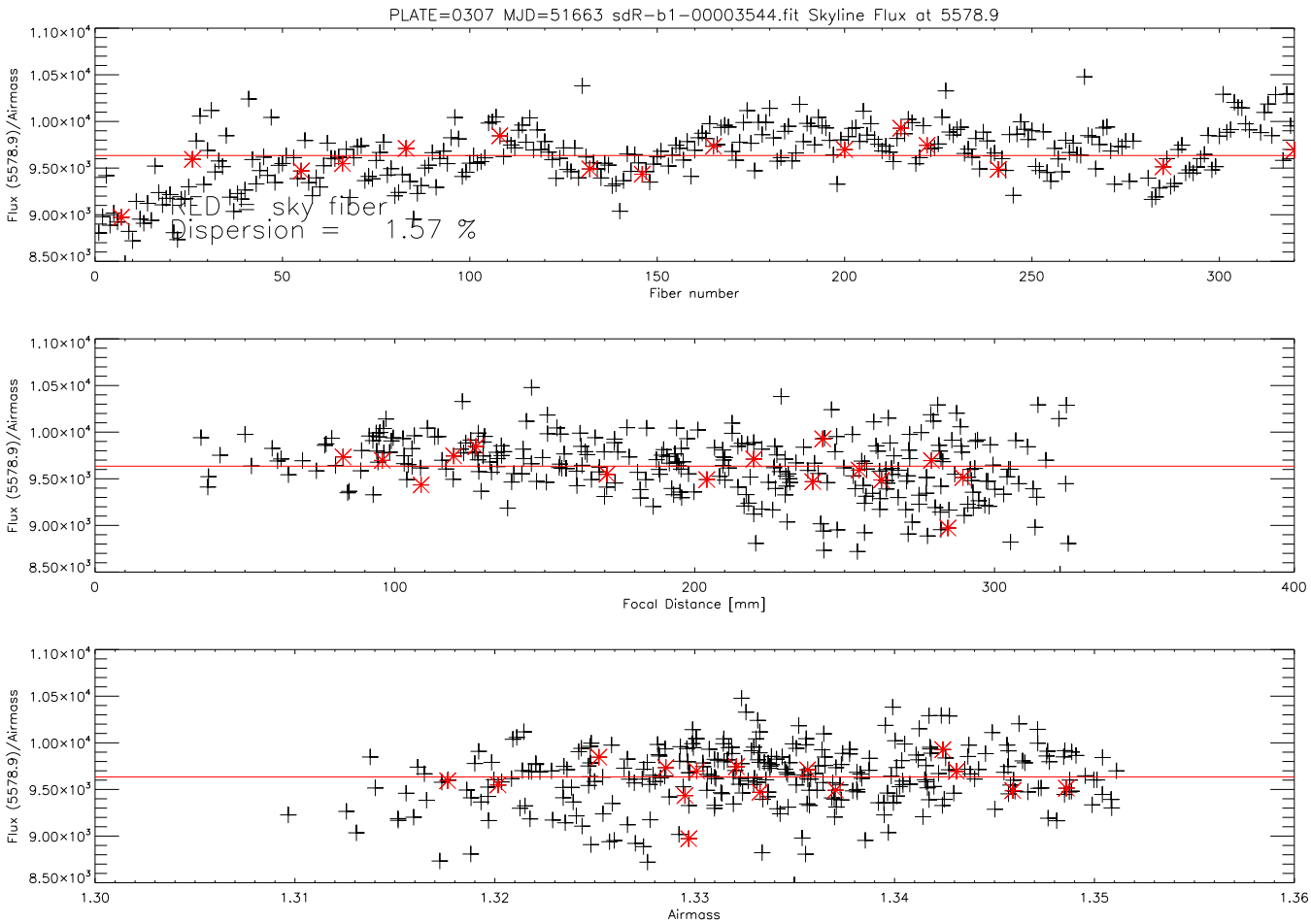

PLATE=0307 MJD=51663 sdR-b1-00003544.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

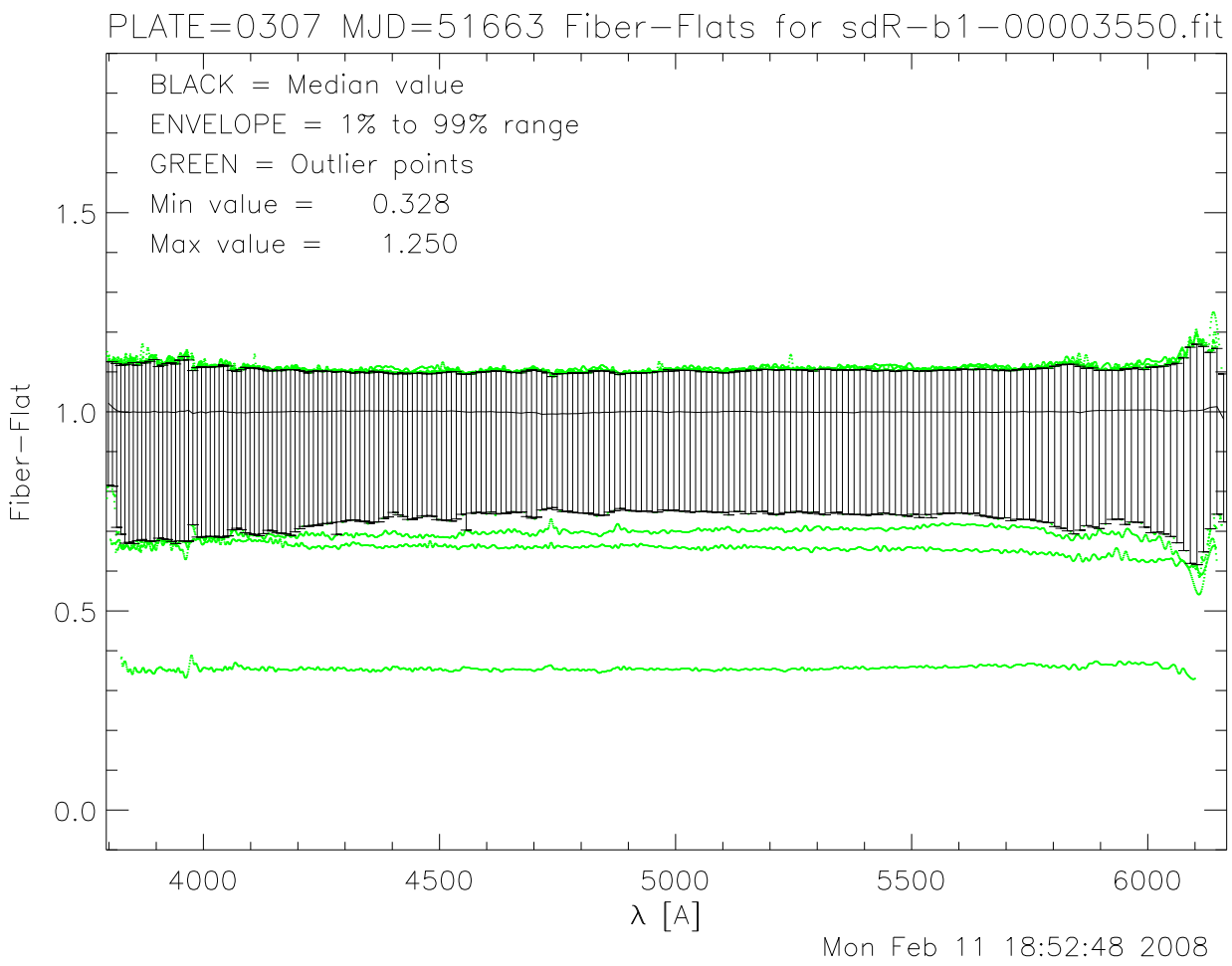

PLATE=0307 MJD=51663 sdR-b1-00003544.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

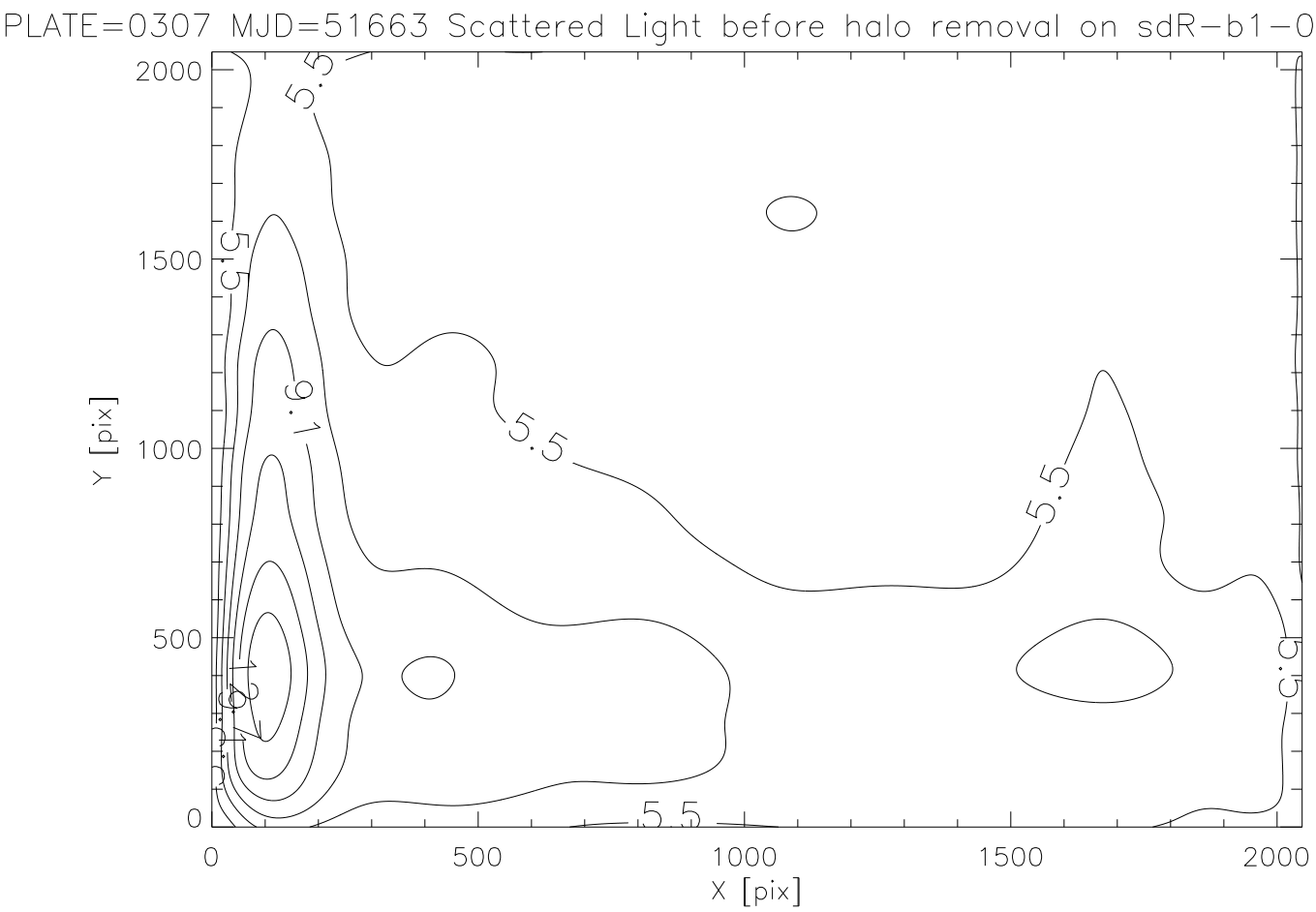

PLATE=0307 MJD=51663 sdR-b1-00003544.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

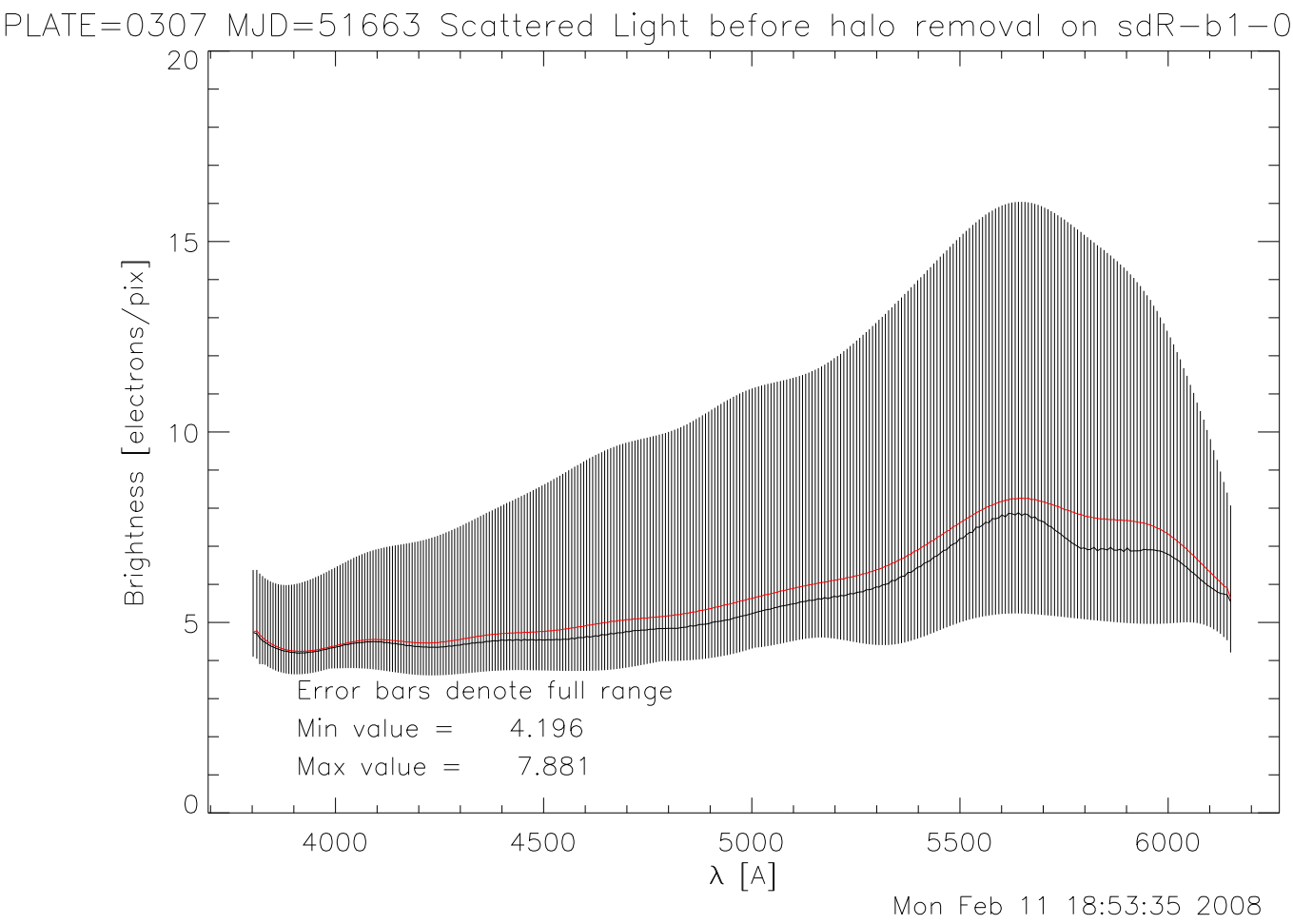

Number of sky fibers = 15
PLATE=0307 MJD=51663 sdR-b1-00003544.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

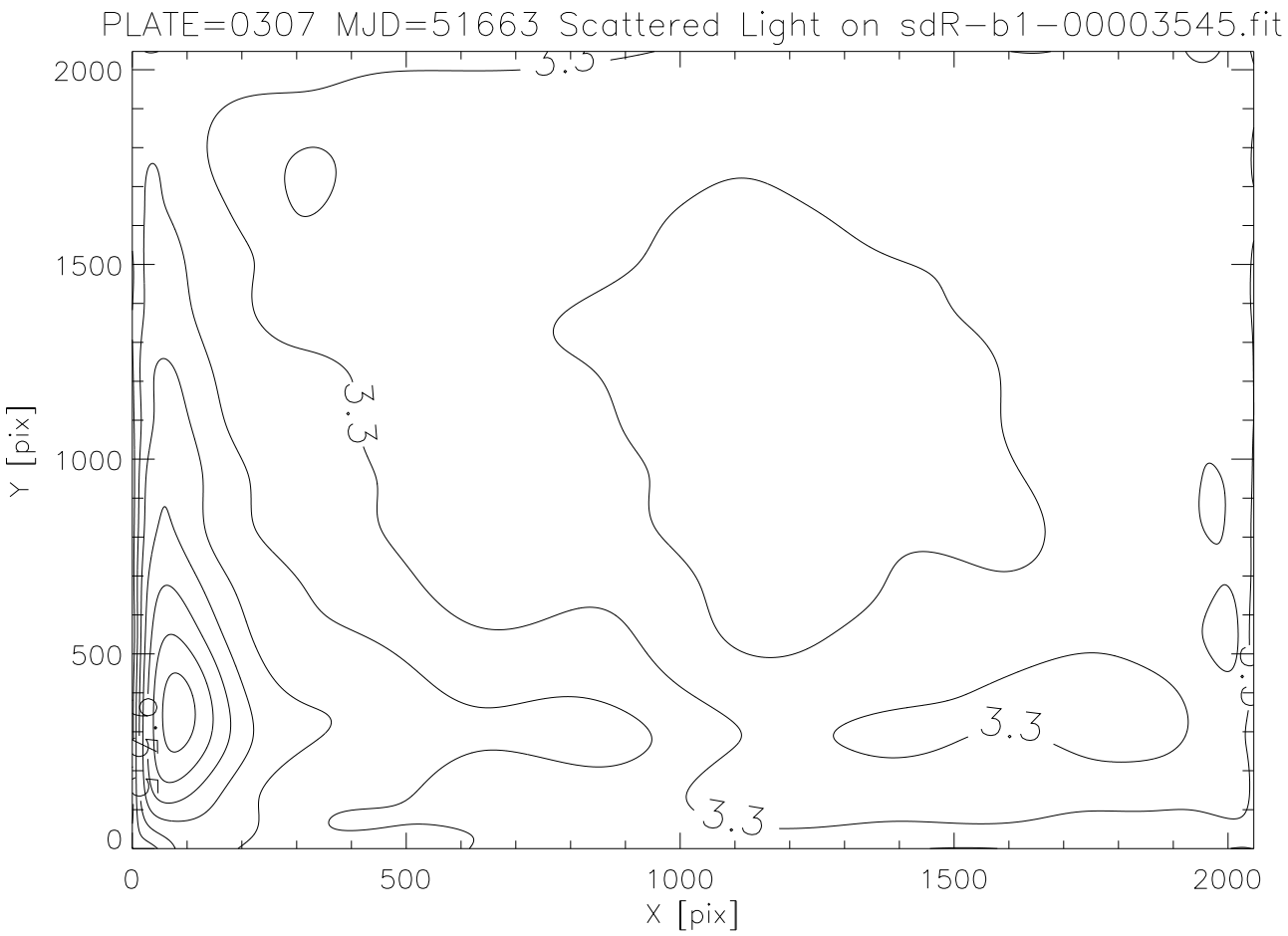

PLATE=0307 MJD=51663 sdR-b1-00003544.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 9.66 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

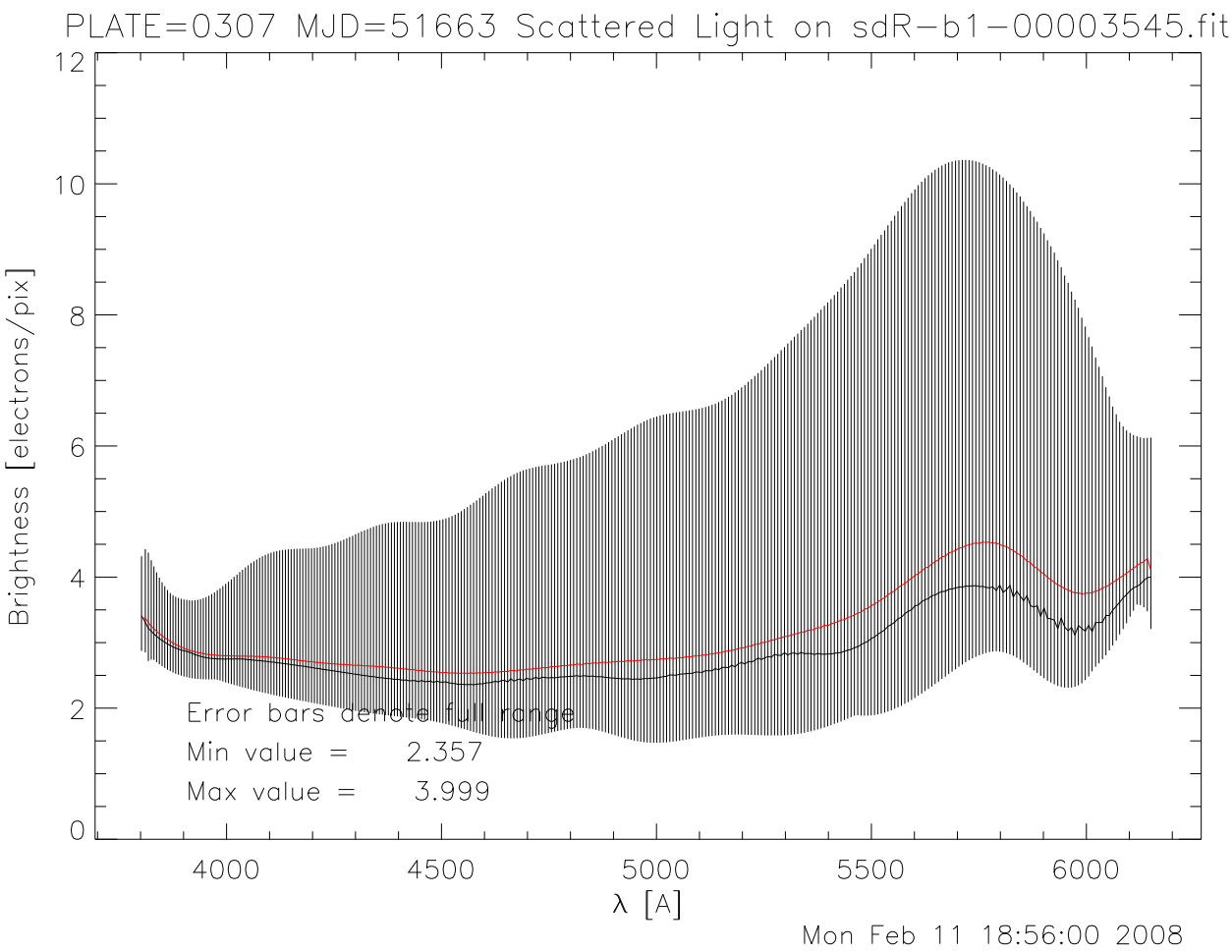

PLATE=0307 MJD=51663 sdR-b1-00003544.fit Skyline Flux at 5578.9
RED= sky fiber
Dispersion = 1.57 %
Flux (5578.9)/Airmass
Fiber number
Focal Distance [mm]
Airmass

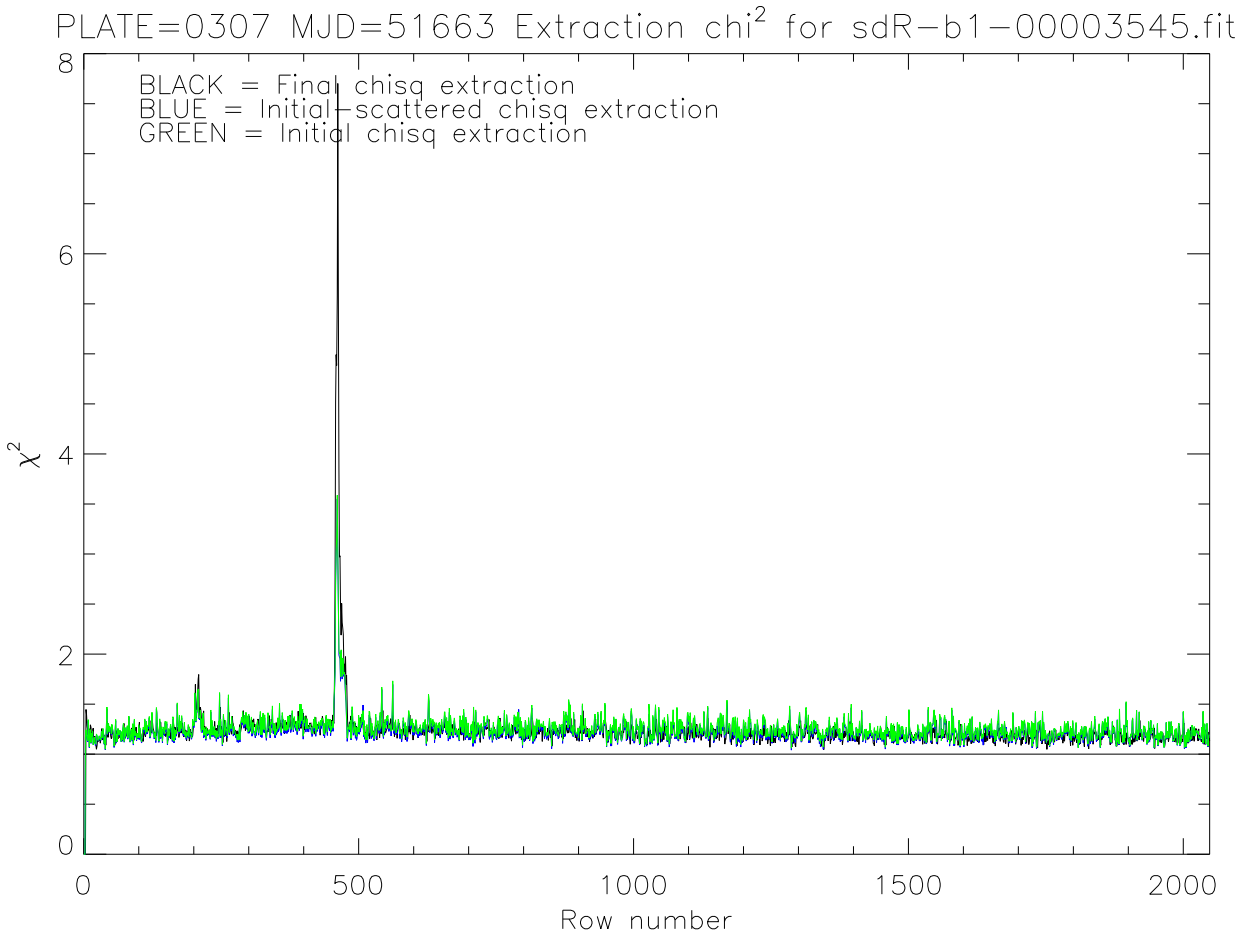

PLATE=0307 MJD=51663 Fiber-Flats for sdR-b1-00003550.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.328
Max value = 1.250
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 18:52:48 2008

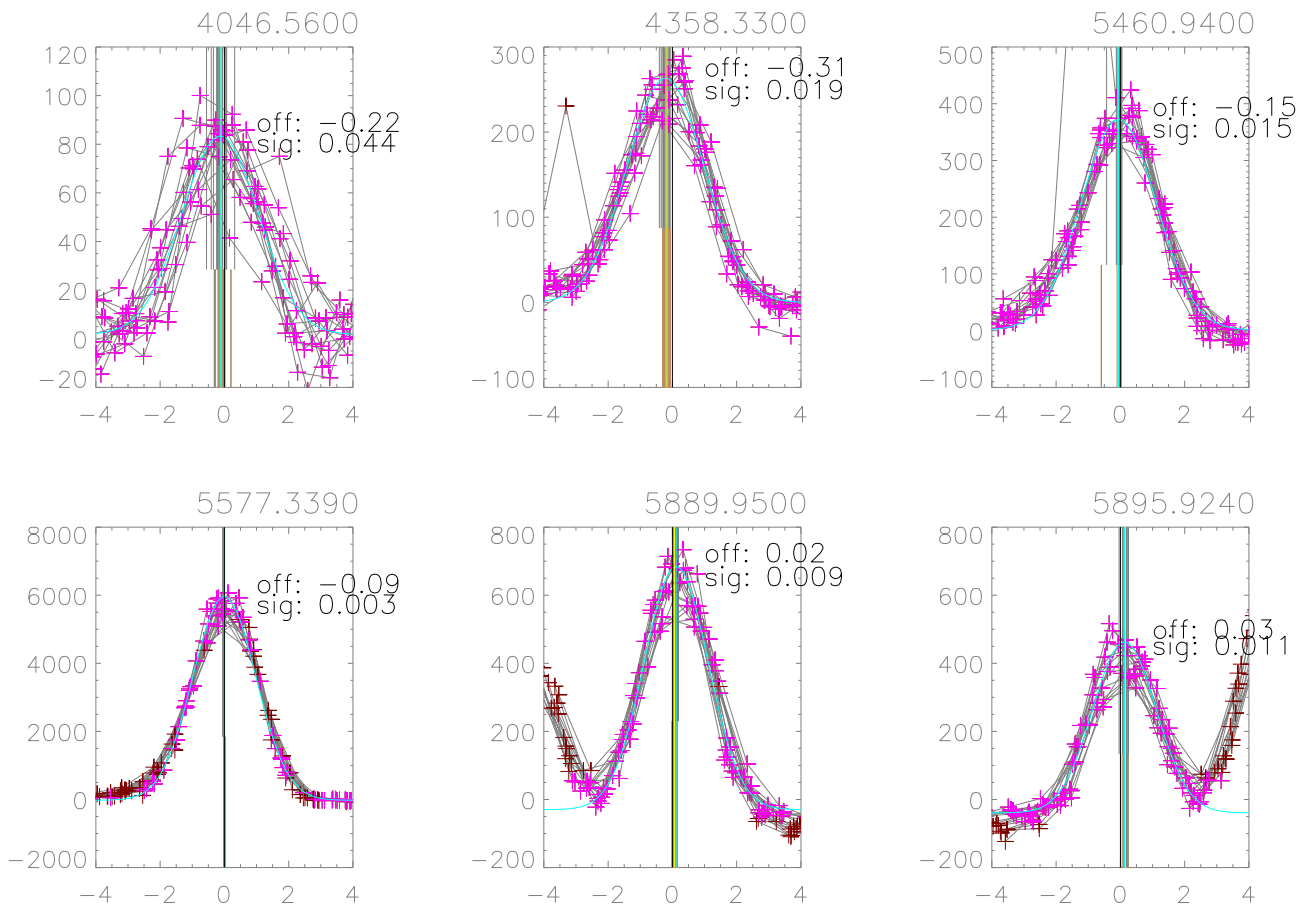

PLATE=0307 MJD=51663 Scattered Light before halo removal on sdR−b1−00003545.f
5.5
5.5
5.5

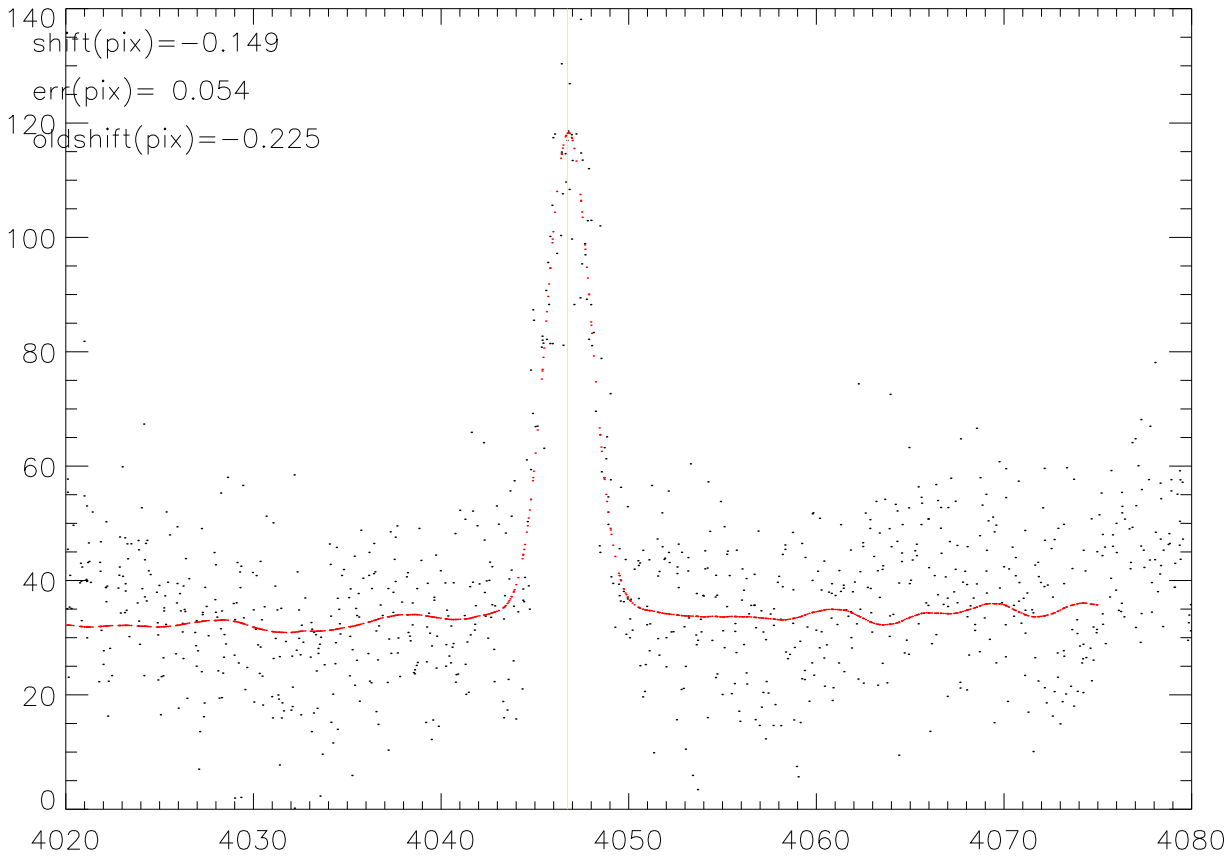

PLATE=0307 MJD=51663 Scattered Light before halo removal on sdR-b1-00003545.f
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 4.196
Max value = 7.881
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 18:53:35 2008

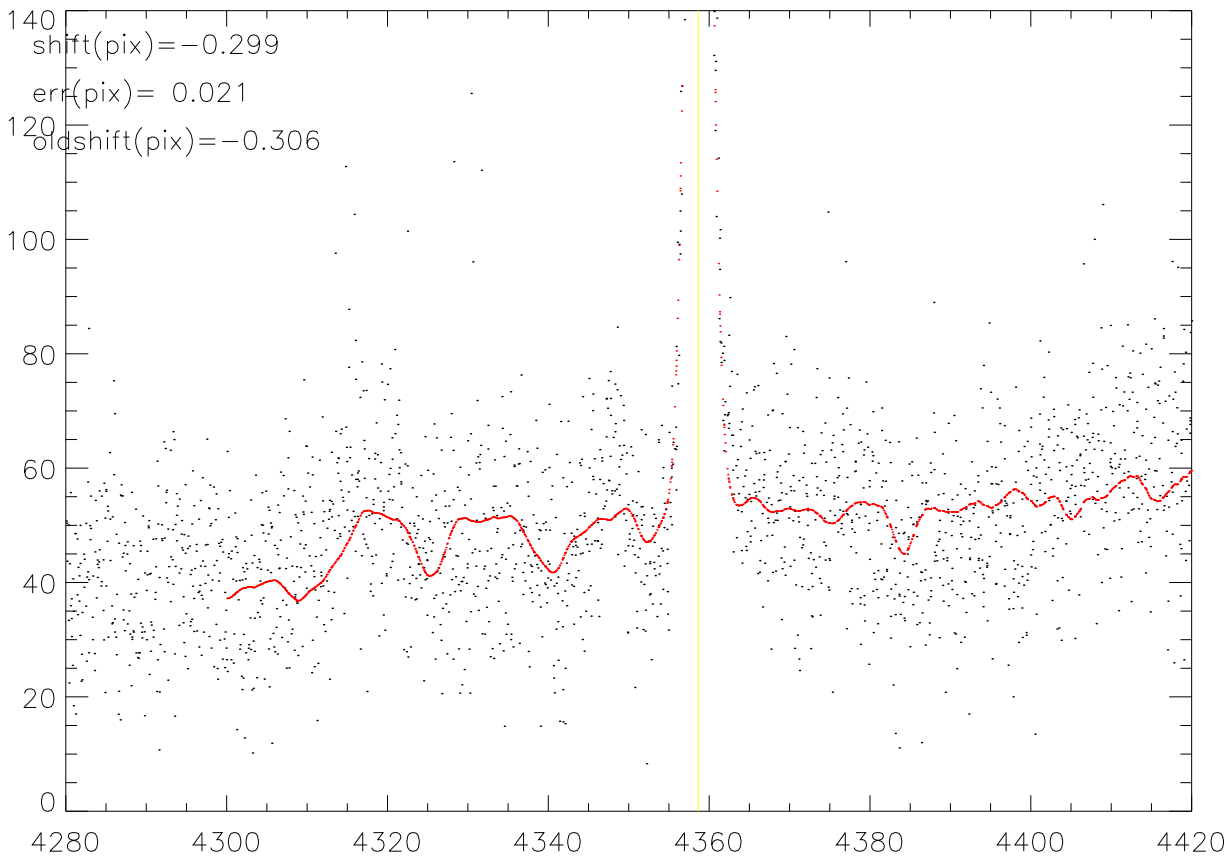

PLATE=0307 MJD=51663 Scattered Light on sdR-b1-00003545.fit
3.5
3.3
3.3
3.3
3.3
2000
1500
1000
500
0
0
500
1000
1500
2000
Y [pix]
X [pix]

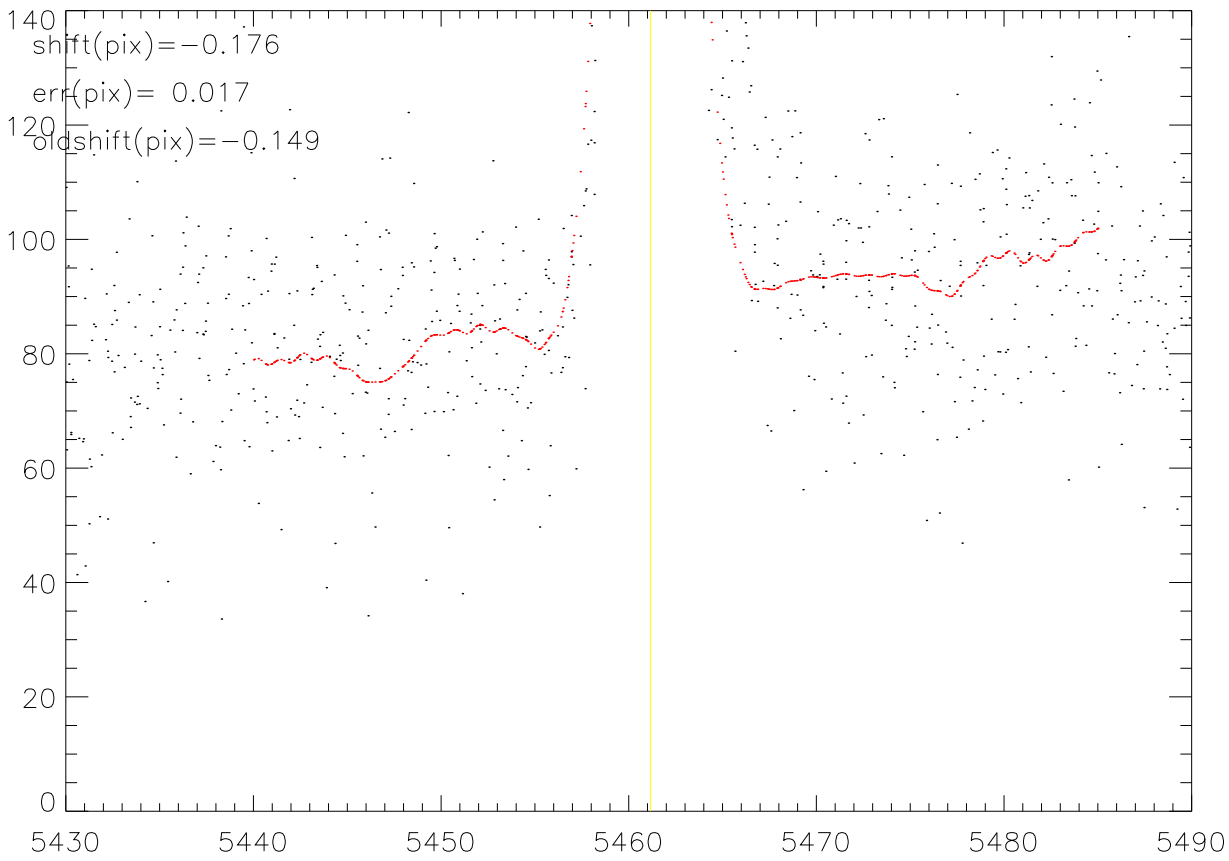

PLATE=0307 MJD=51663 Scattered Light on sdR-b1-00003545.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 2.357
Max value = 3.999
Mon Feb 11 18:56:00 2008

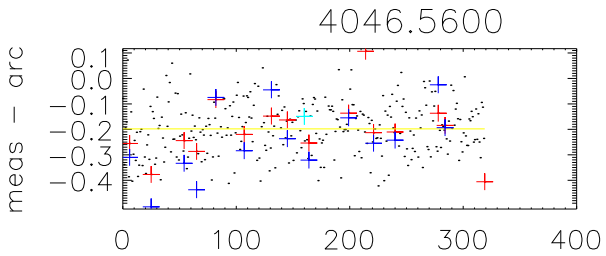

PLATE=0307 MJD=51663 Extraction chi^2 for sdR-b1-00003545.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

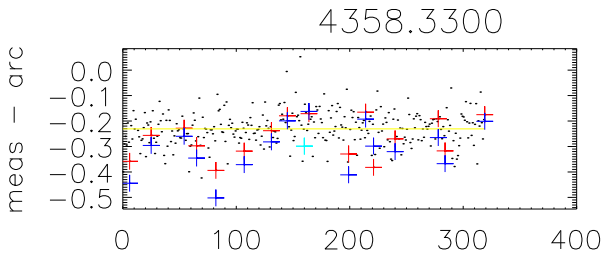

4046.5600
off: −0.22
sig: 0.044
4358.3300
off: −0.31
sig: 0.019
5460.9400
off: −0.15
sig: 0.015
5577.3390
off: −0.09
sig: 0.003
5889.9500
off: 0.02
sig: 0.009
5895.9240
off: 0.03
sig: 0.011

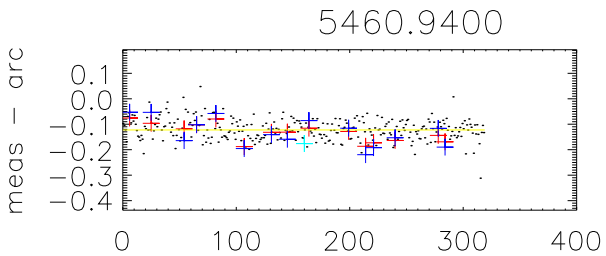

shift(pix)=−0.149
err(pix)= 0.054
oldshift(pix)=−0.225
140
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

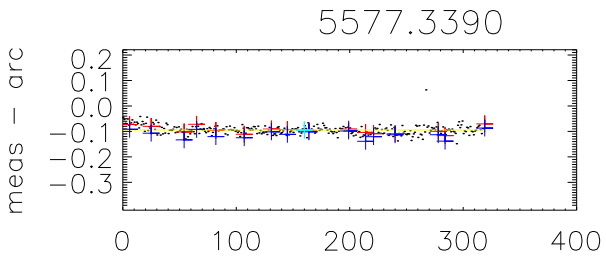

shift(pix)=−0.299
err(pix)= 0.021
oldshift(pix)=−0.306
140
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

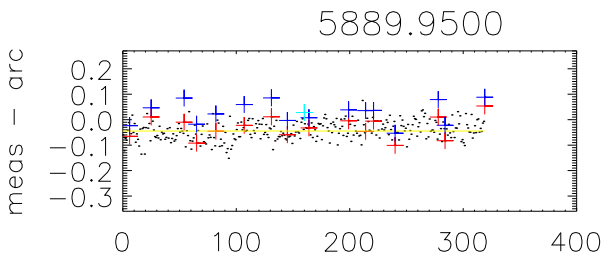

shift(pix)=−0.176
err(pix)= 0.017
oldshift(pix)=−0.149
140
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

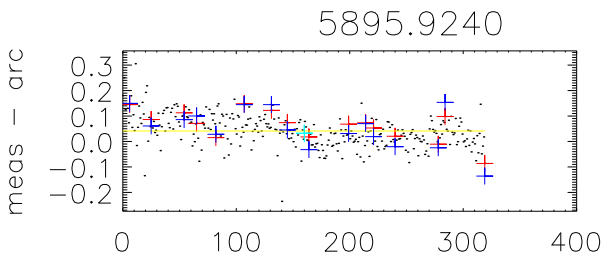

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

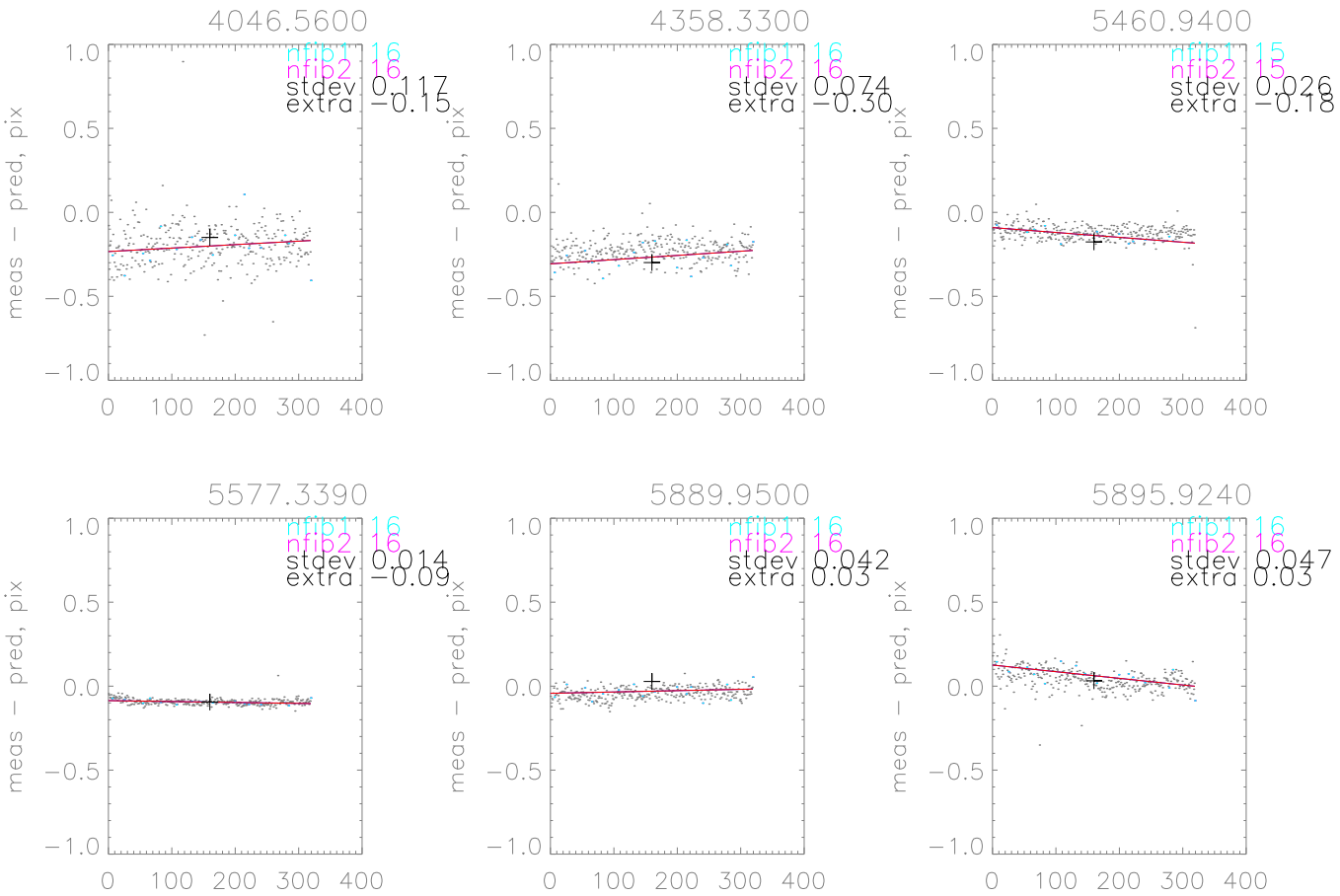

4358.3300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

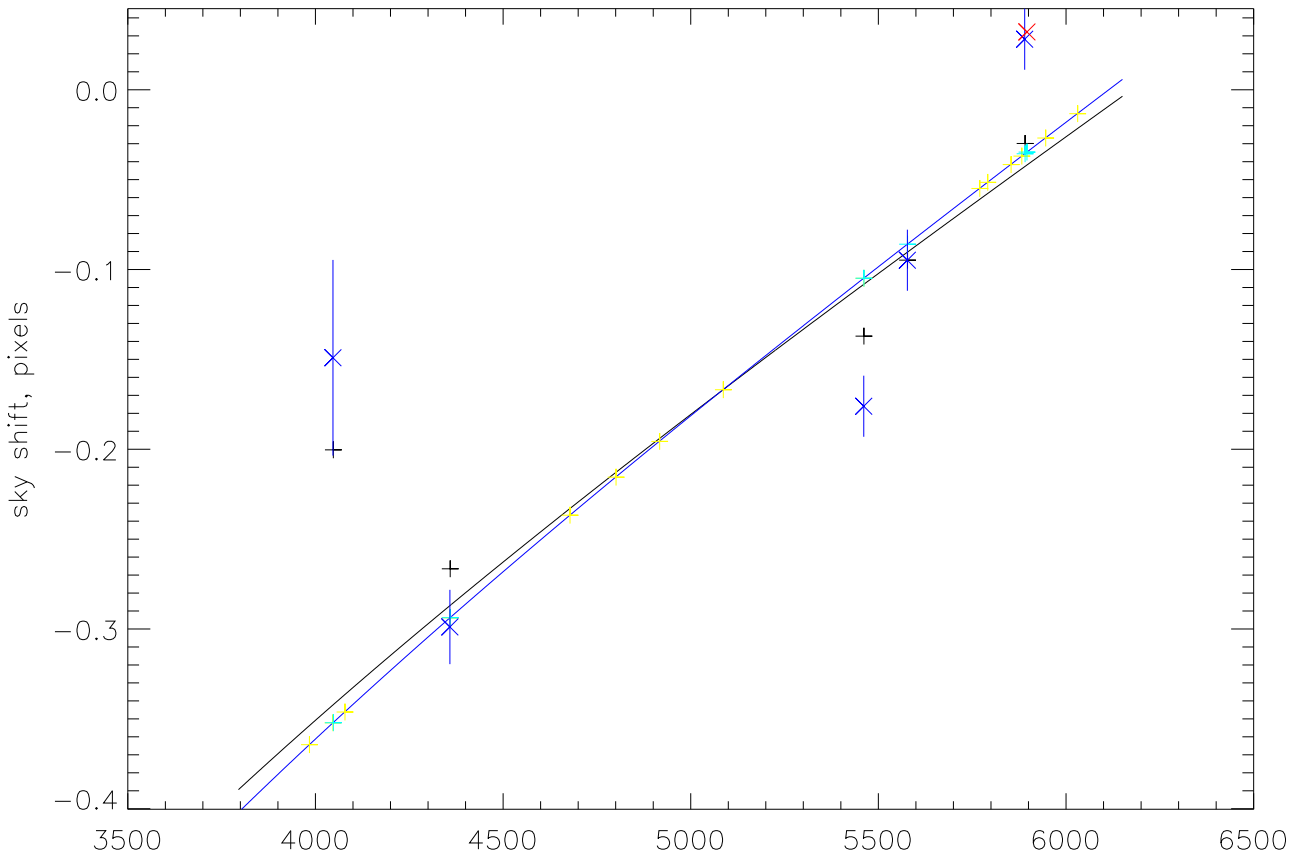

5460.9400
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

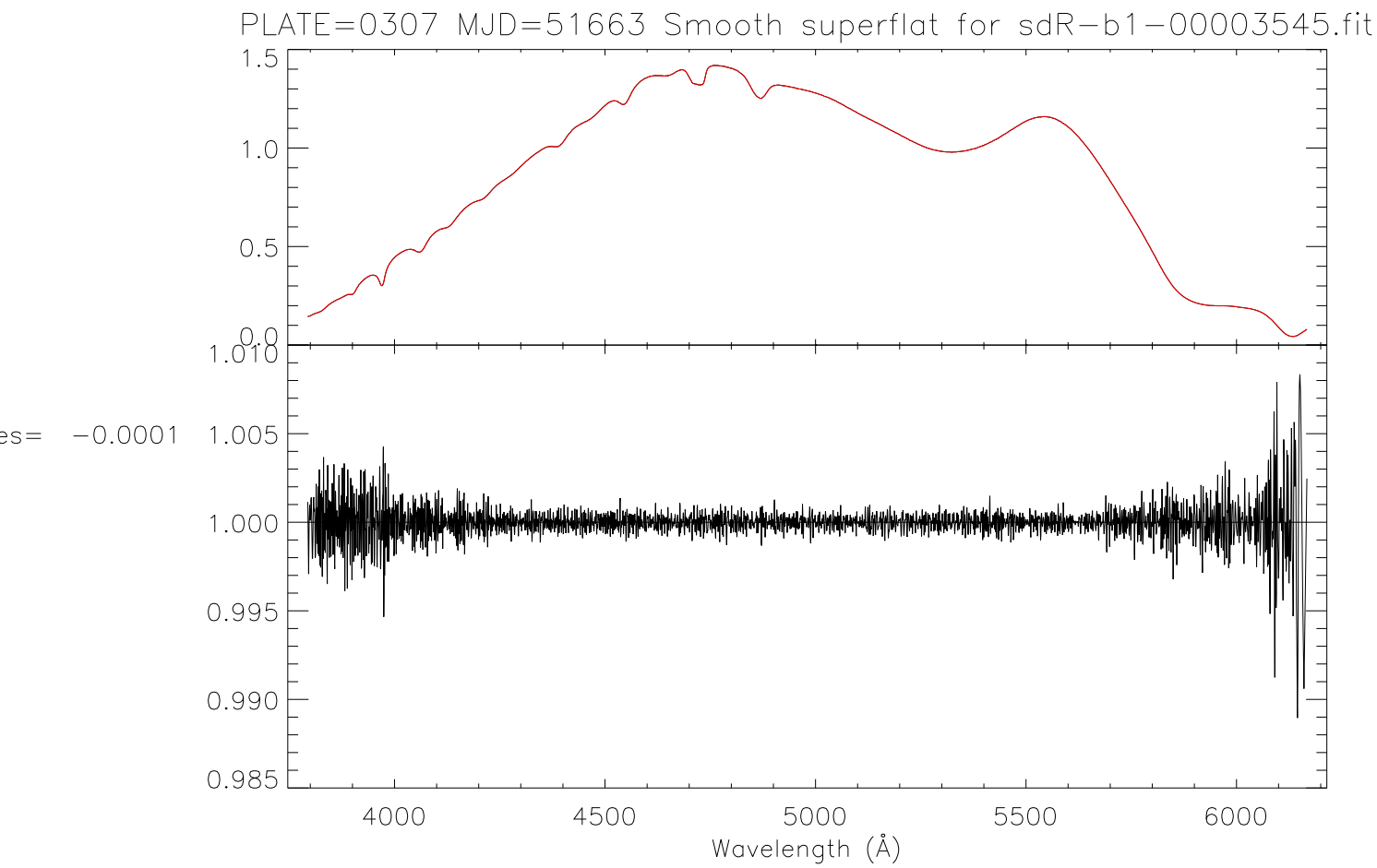

5577.3390
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

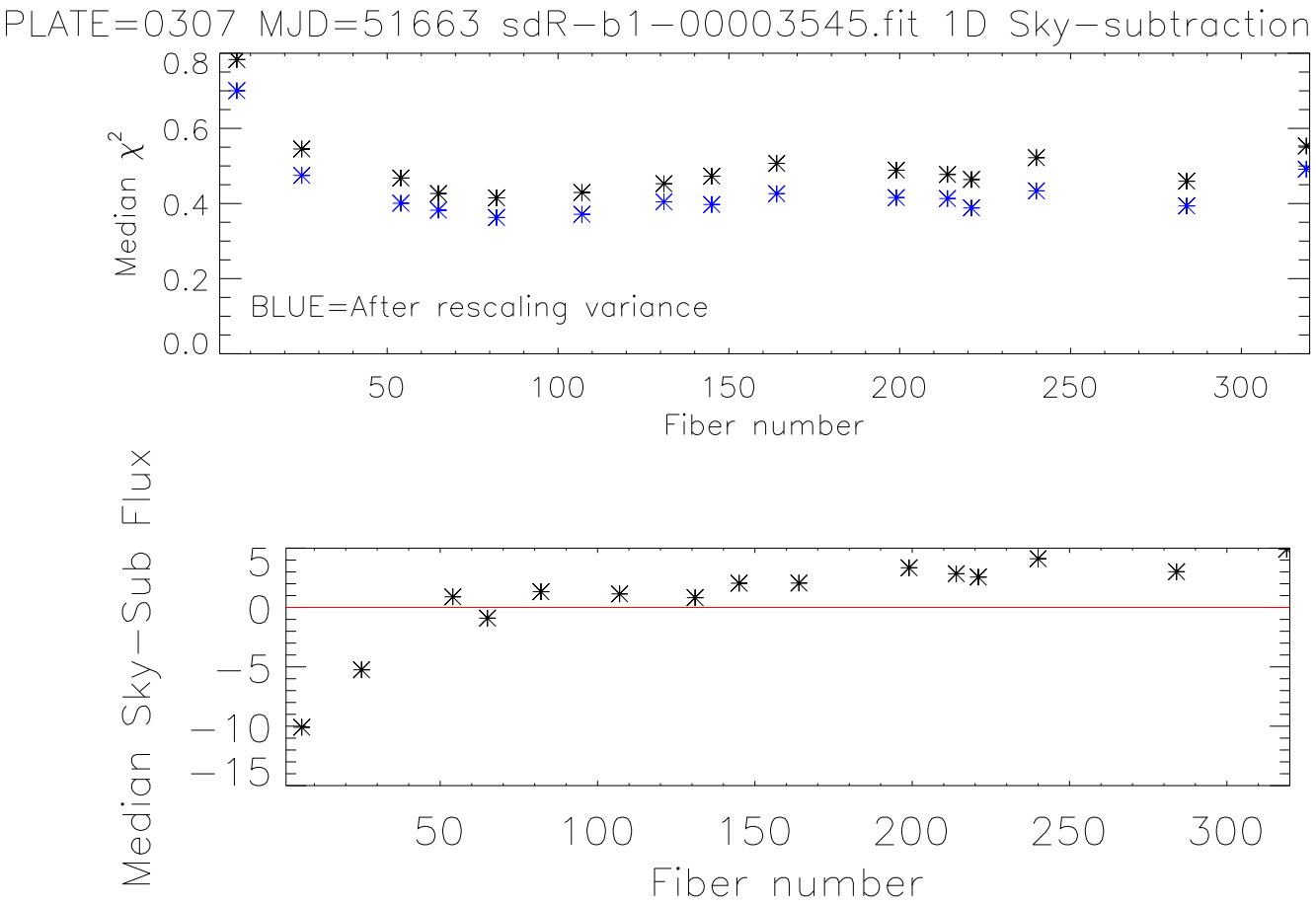

5889.9500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

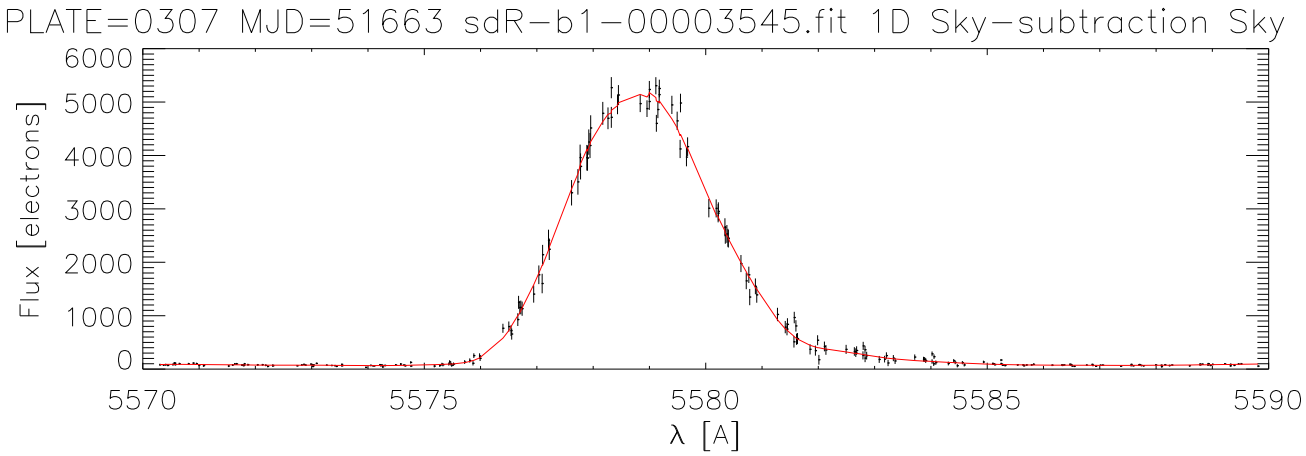

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

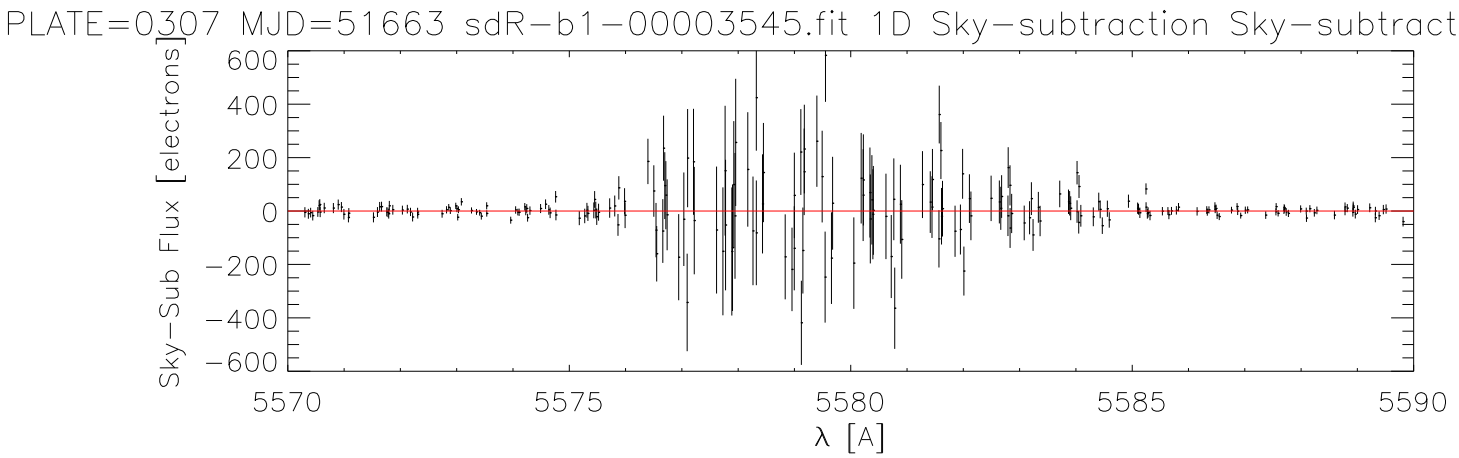

4046.5600
nfib1 16
nfib2 16
stdev 0.117
extra −0.15
4358.3300
nfib1 16
nfib2 16
stdev 0.074
extra −0.30
5460.9400
nfib1 15
nfib2 15
stdev 0.026
extra −0.18
5577.3390
nfib1 16
nfib2 16
stdev 0.014
extra −0.09
5889.9500
nfib1 16
nfib2 16
stdev 0.042
extra 0.03
5895.9240
nfib1 16
nfib2 16
stdev 0.047
extra 0.03
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

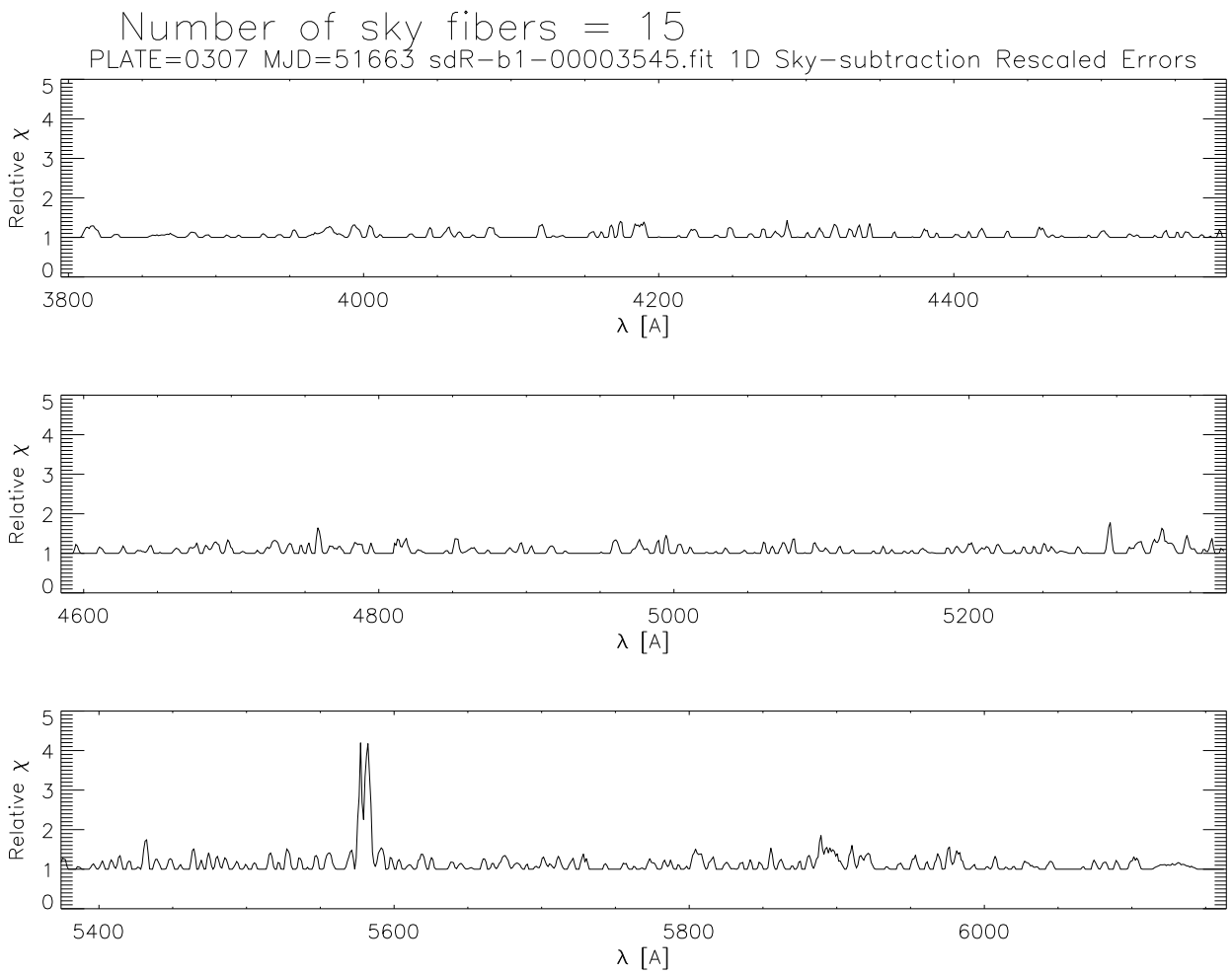

sky shift, pixels
0.0
−0.1
−0.2
−0.3
−0.4
3500
4000
4500
5000
5500
6000
6500

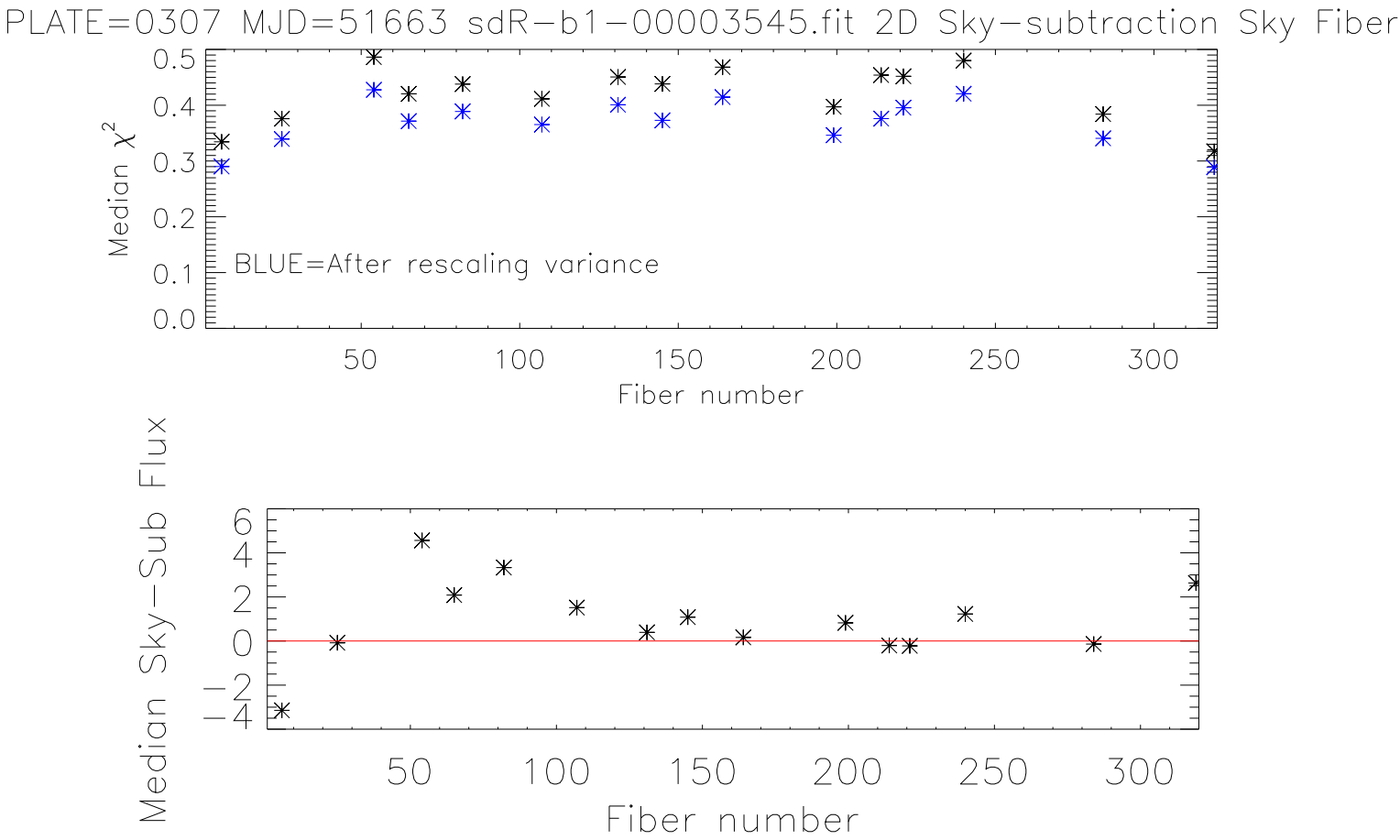

PLATE=0307 MJD=51663 Smooth superflat for sdR-b1-00003545.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
es= −0.0001
4000
4500
5000
5500
6000
Wavelength (Å)

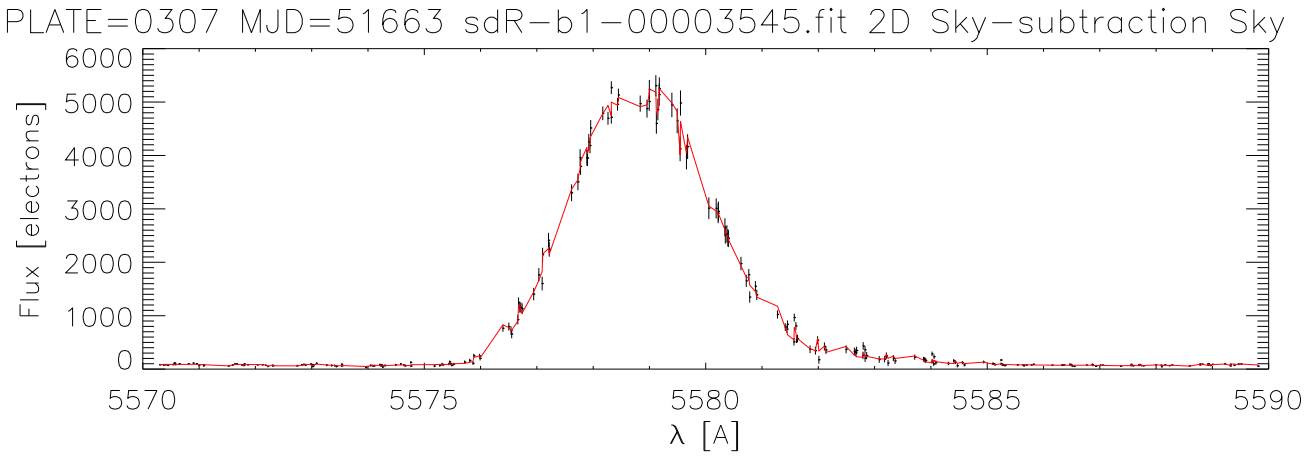

PLATE=0307 MJD=51663 sdR-b1-00003545.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

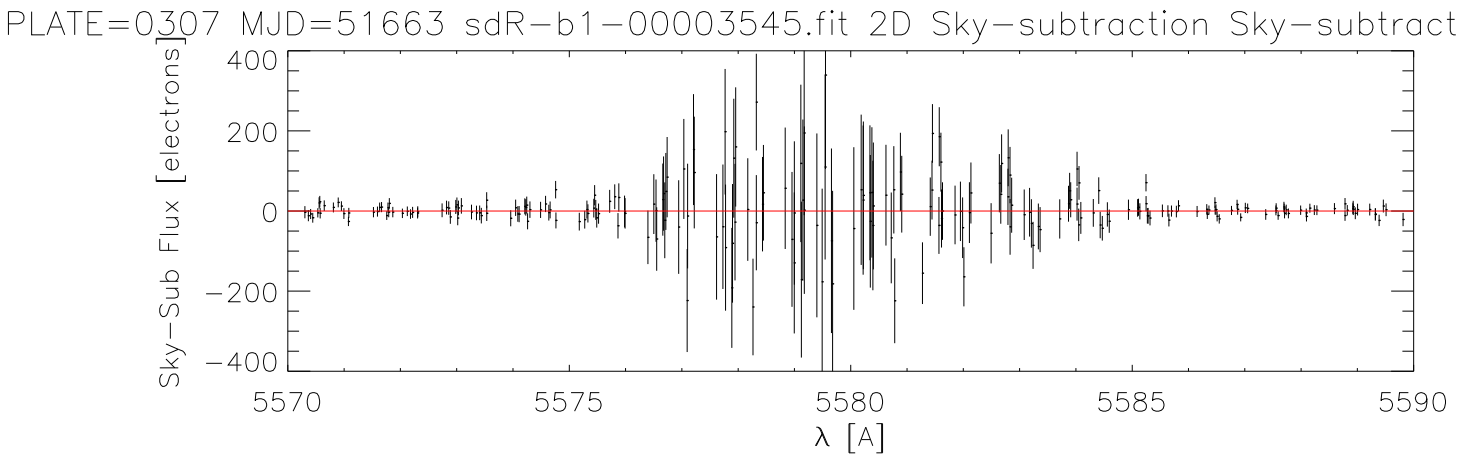

PLATE=0307 MJD=51663 sdR-b1-00003545.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

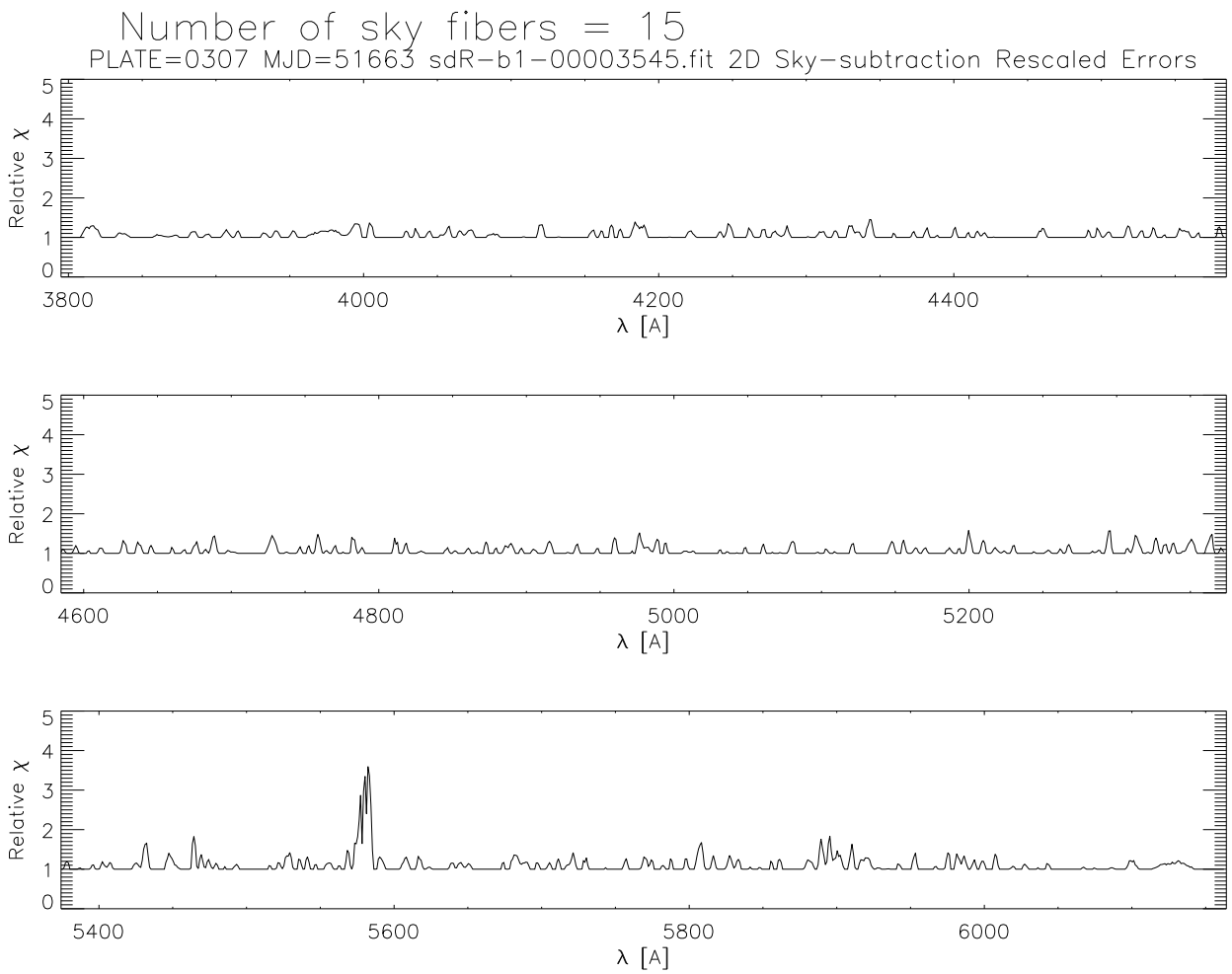

PLATE=0307 MJD=51663 sdR-b1-00003545.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

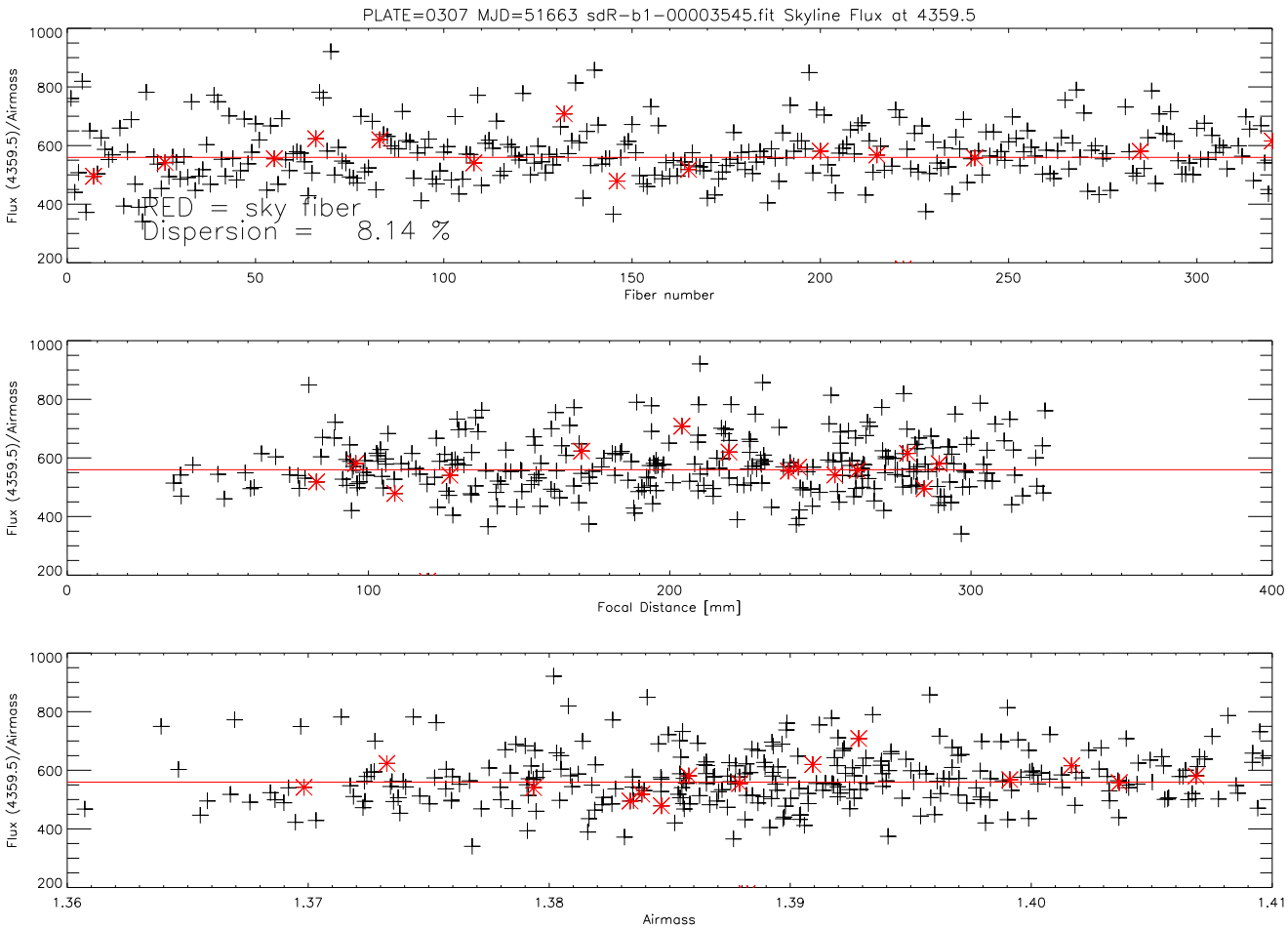

Number of sky fibers = 15
PLATE=0307 MJD=51663 sdR-b1-00003545.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

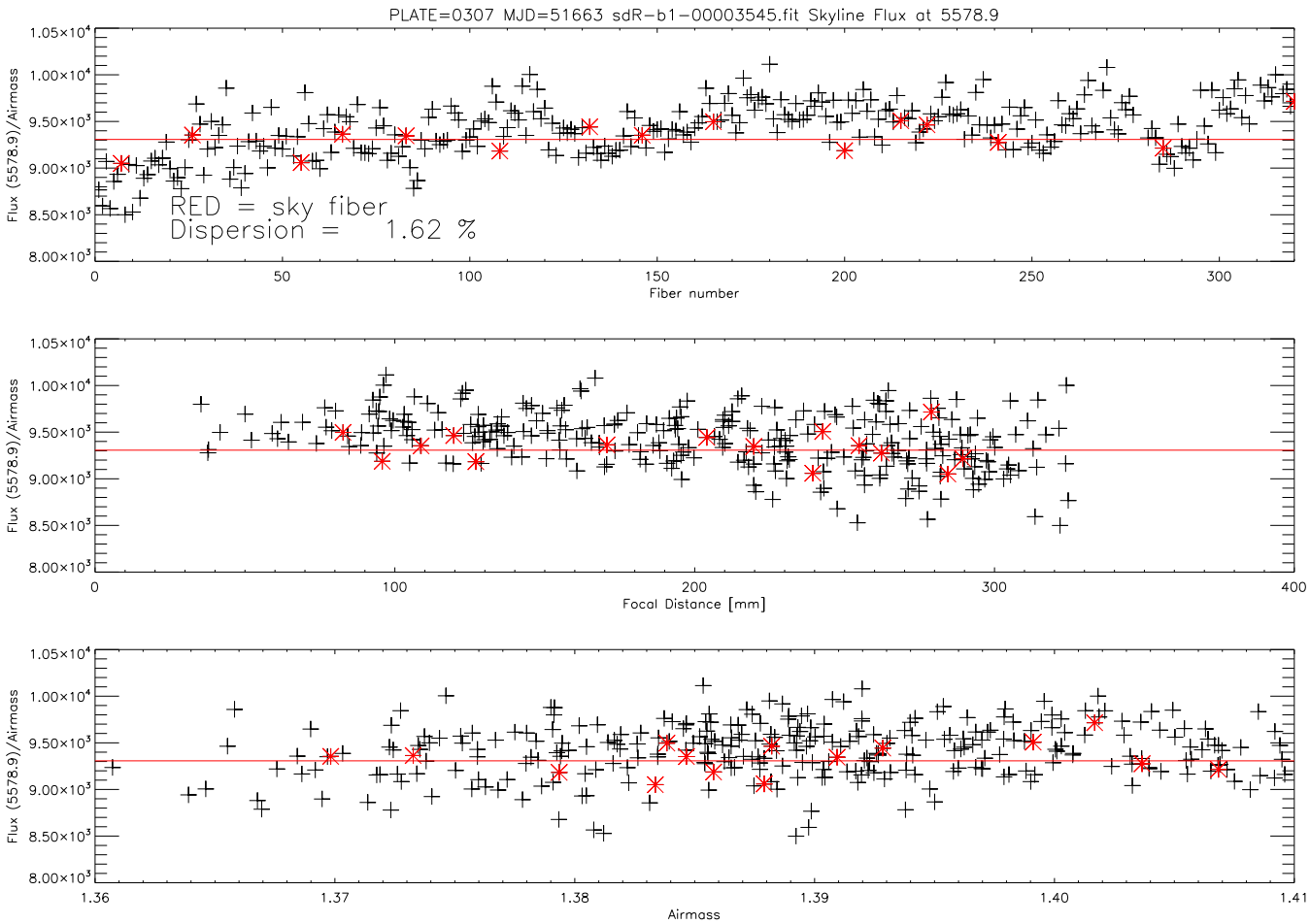

PLATE=0307 MJD=51663 sdR-b1-00003545.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

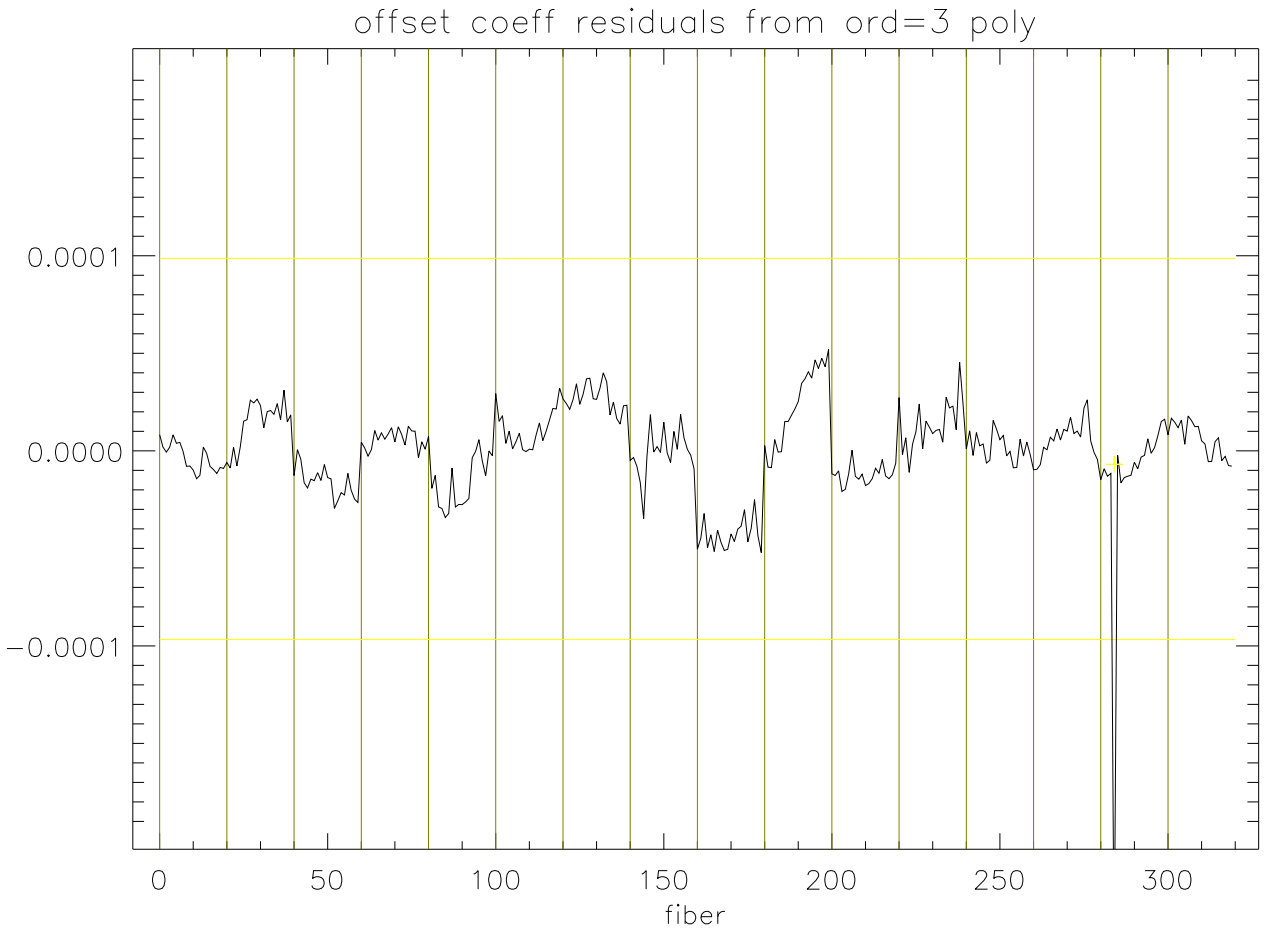

PLATE=0307 MJD=51663 sdR-b1-00003545.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

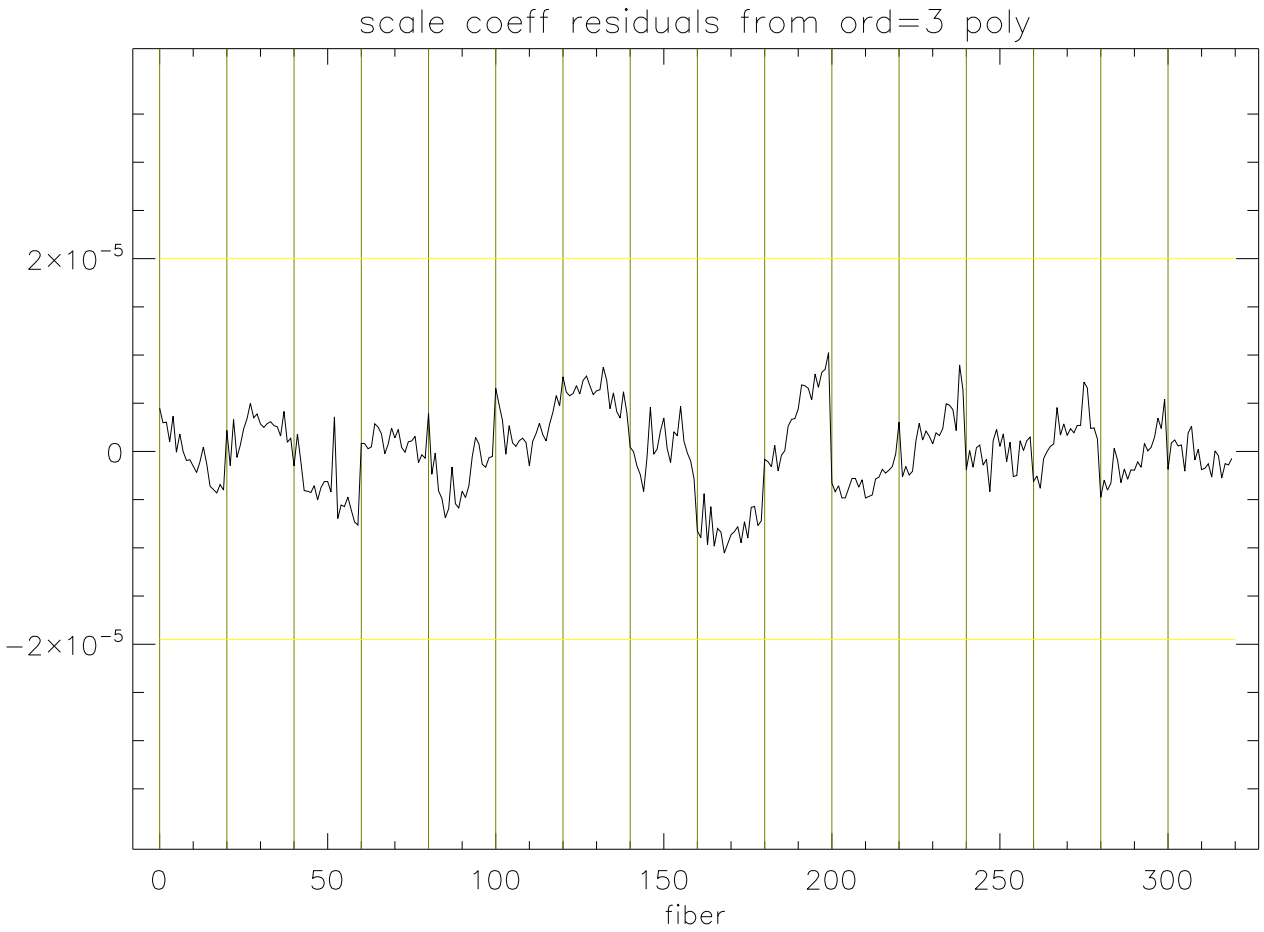

PLATE=0307 MJD=51663 sdR-b1-00003545.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

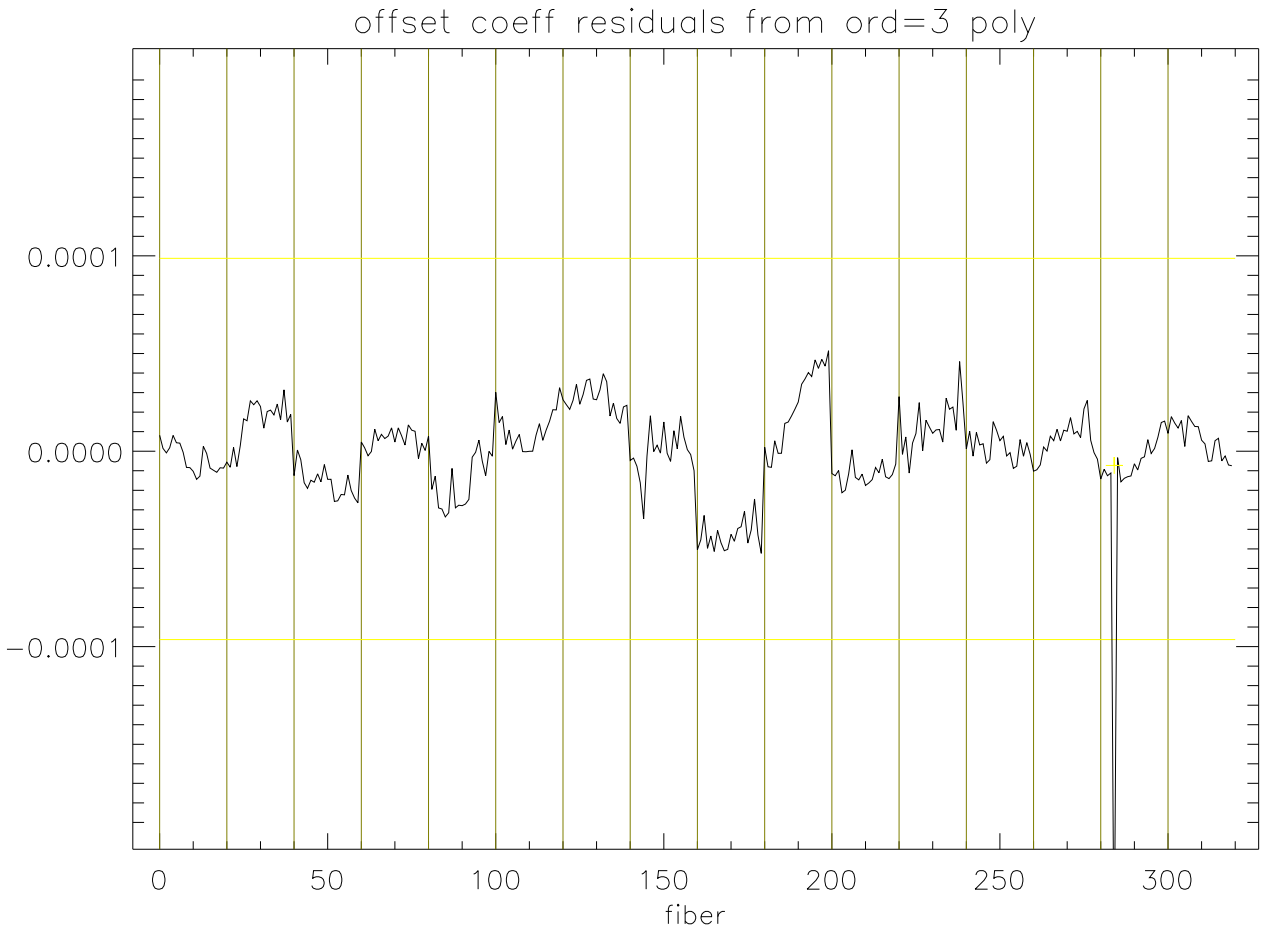

Number of sky fibers = 15
PLATE=0307 MJD=51663 sdR-b1-00003545.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

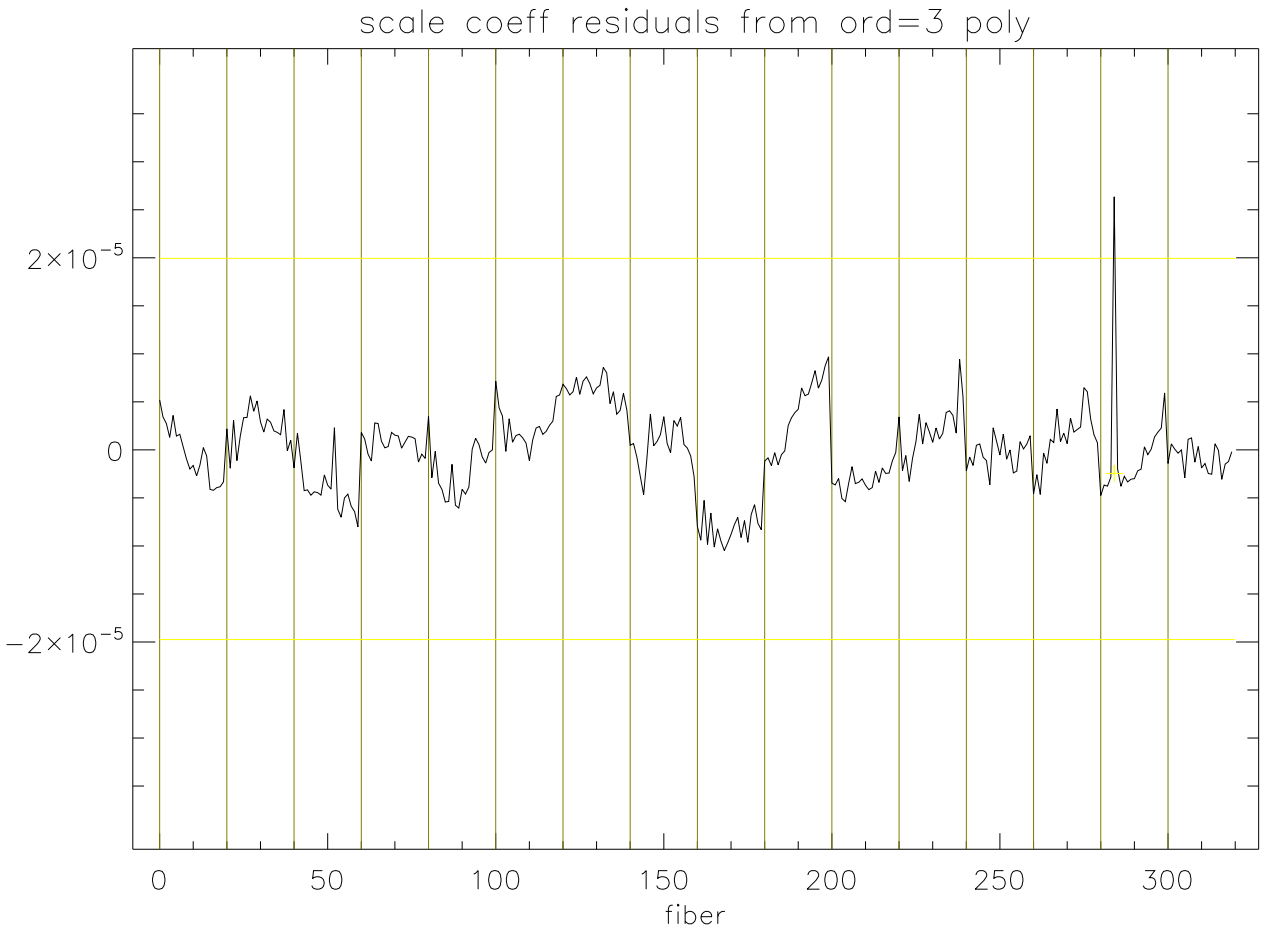

PLATE=0307 MJD=51663 sdR-b1-00003545.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 8.14 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

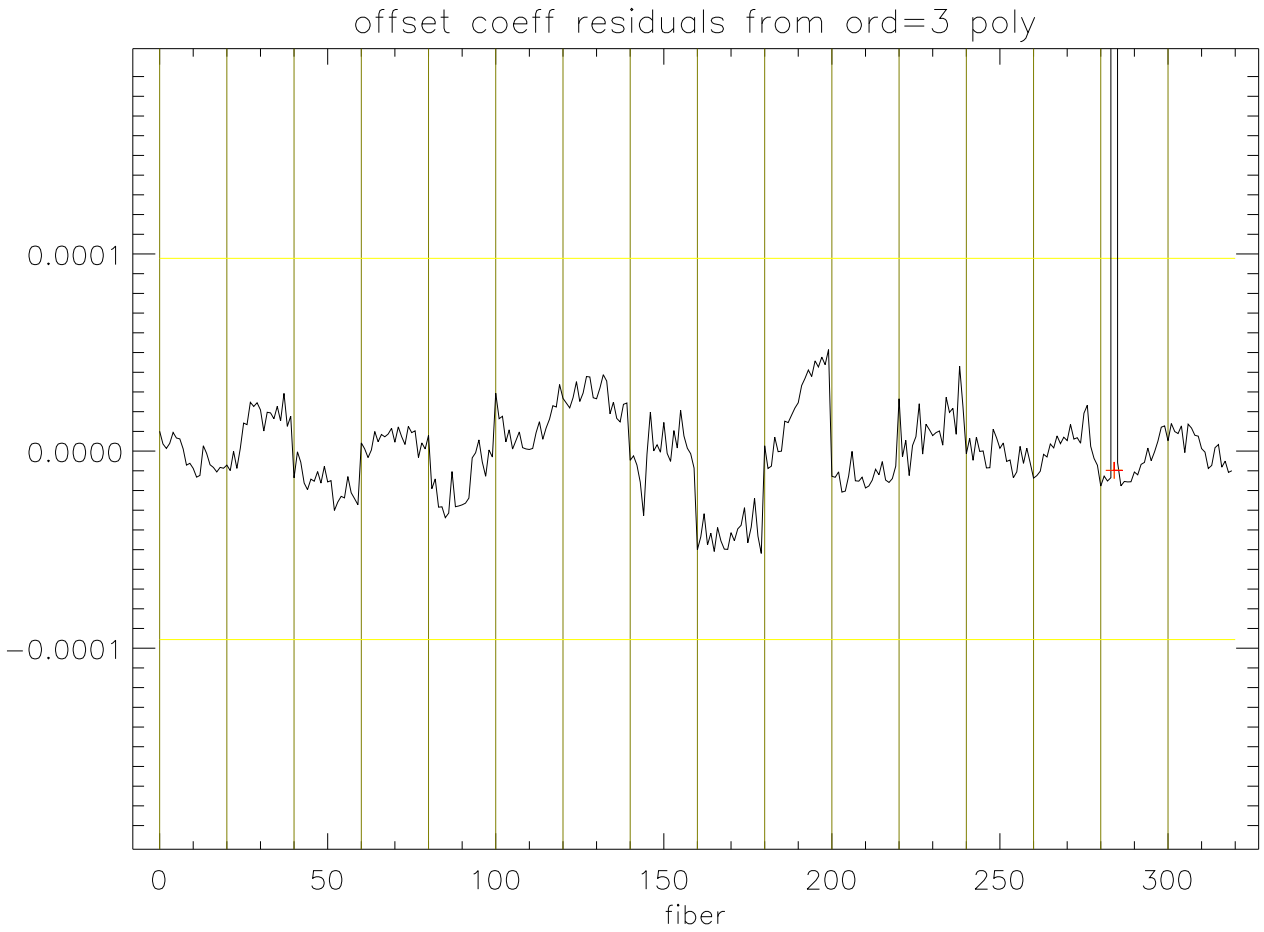

PLATE=0307 MJD=51663 sdR-b1-00003545.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.62 %
Fiber number
Focal Distance [mm]
Airmass

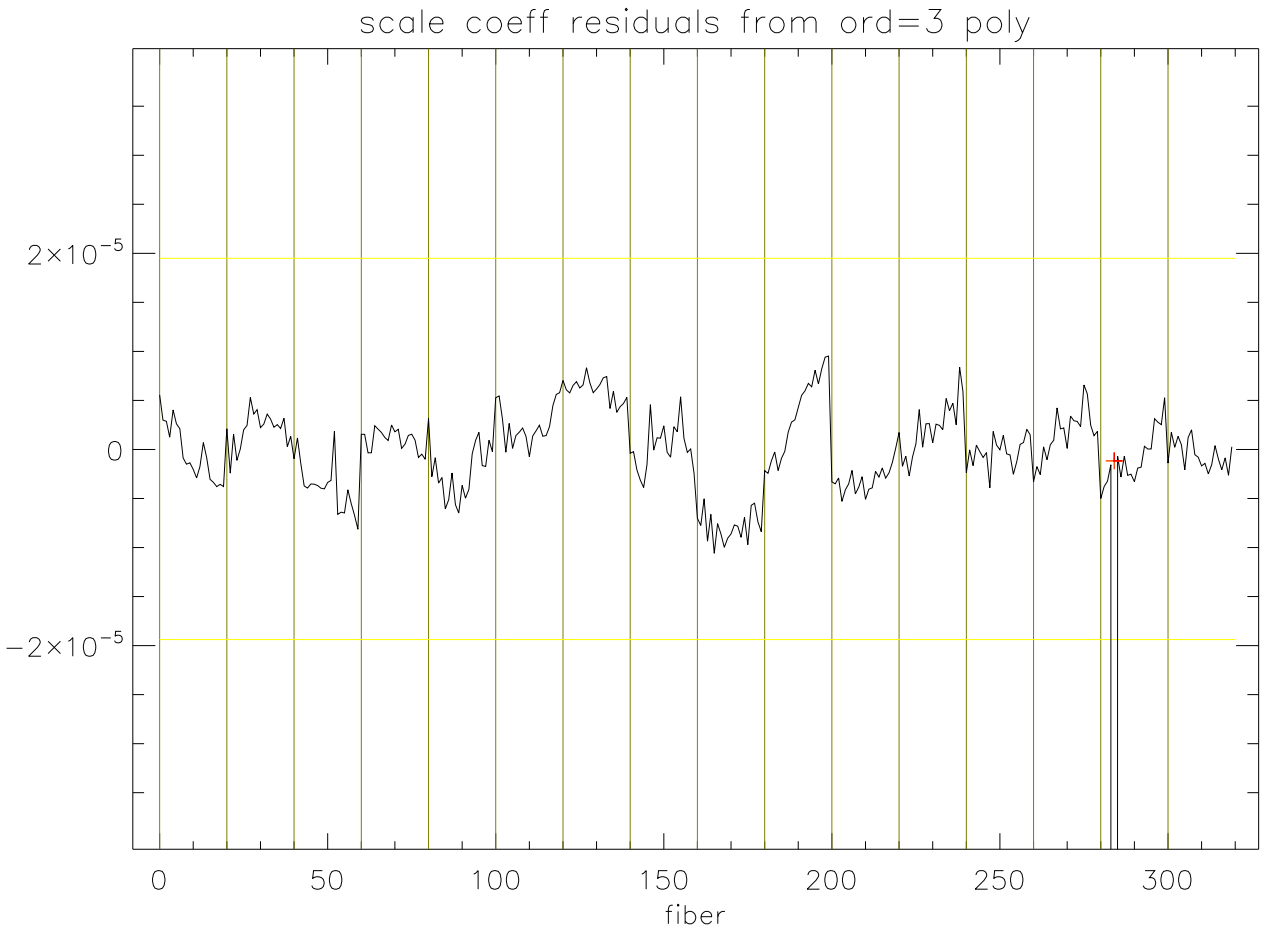

offset coeff residuals from ord=3 poly
0.0001
0.0000
−0.0001
0
50
100
150
200
250
300
fiber

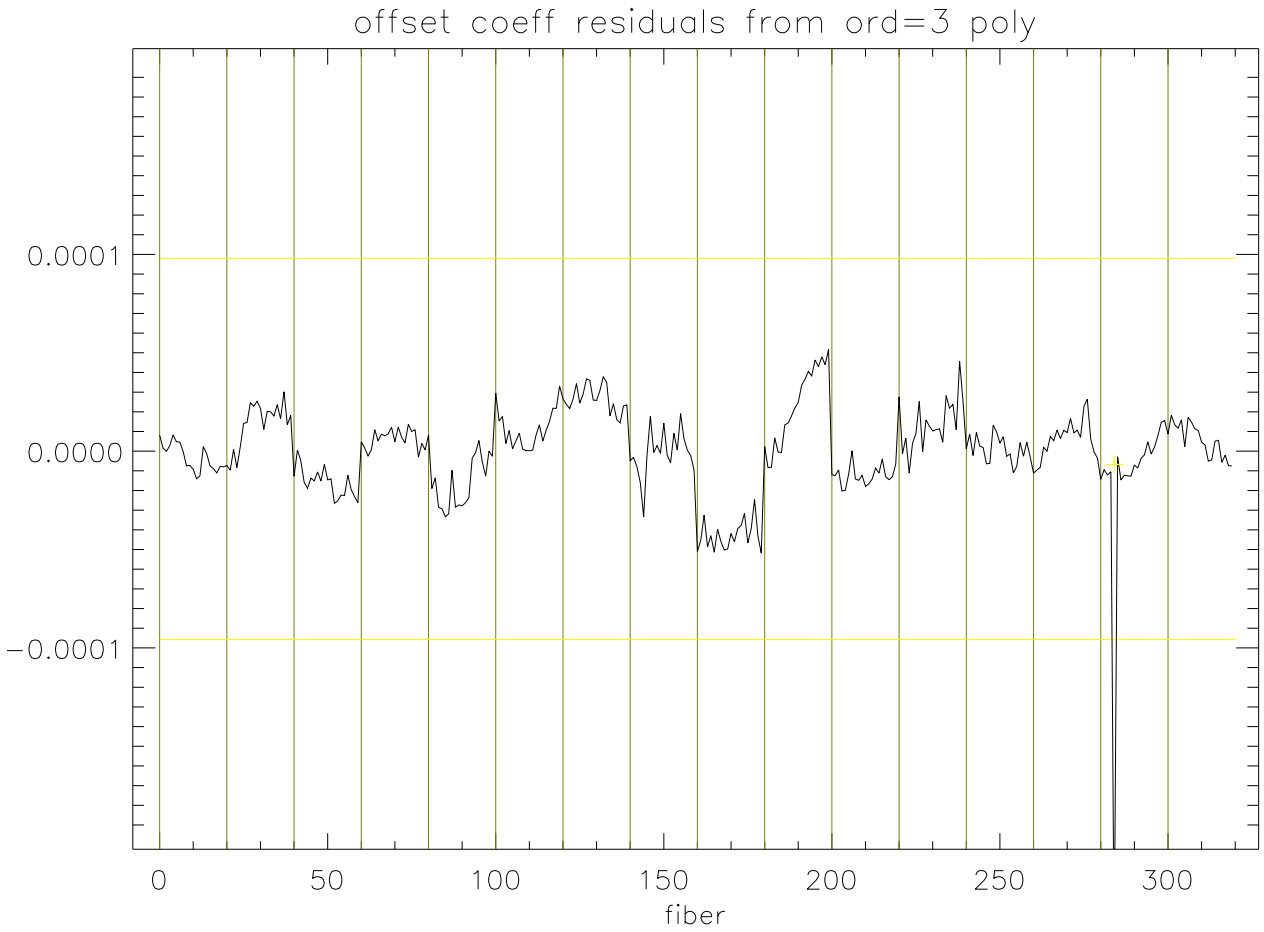

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

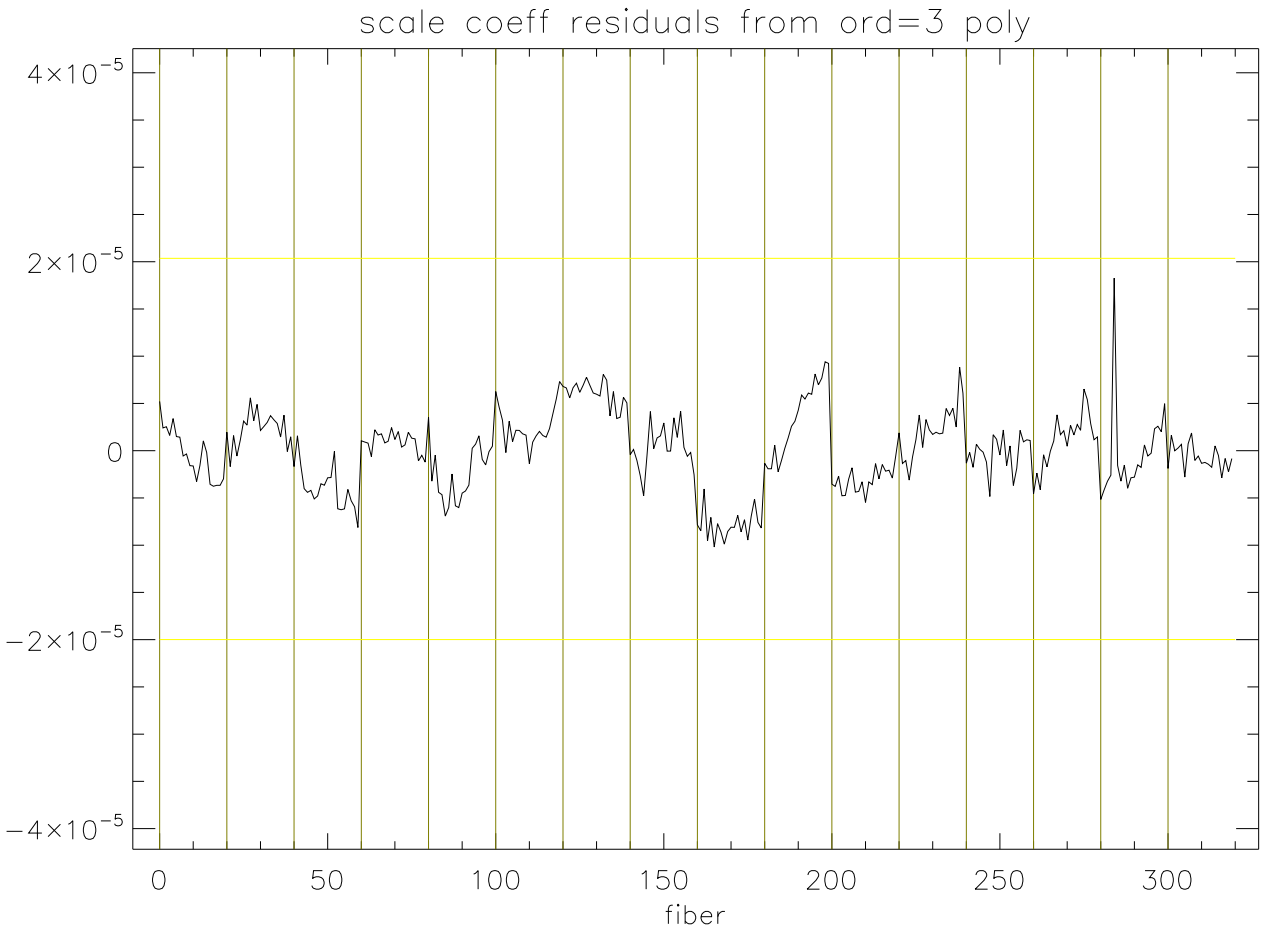

offset coeff residuals from ord=3 poly
0.0001
0.0000
−0.0001
0
50
100
150
200
250
300
fiber

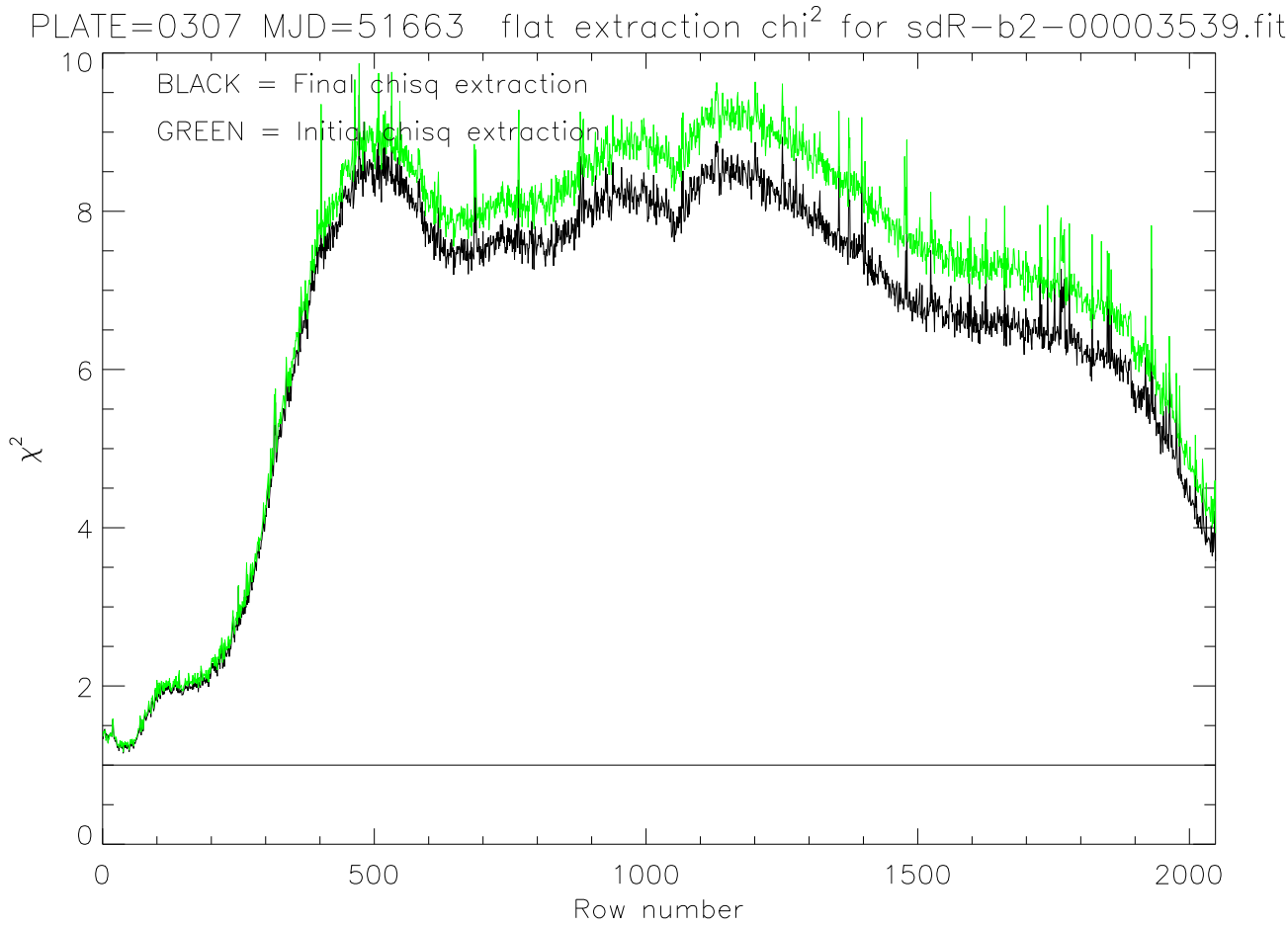

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

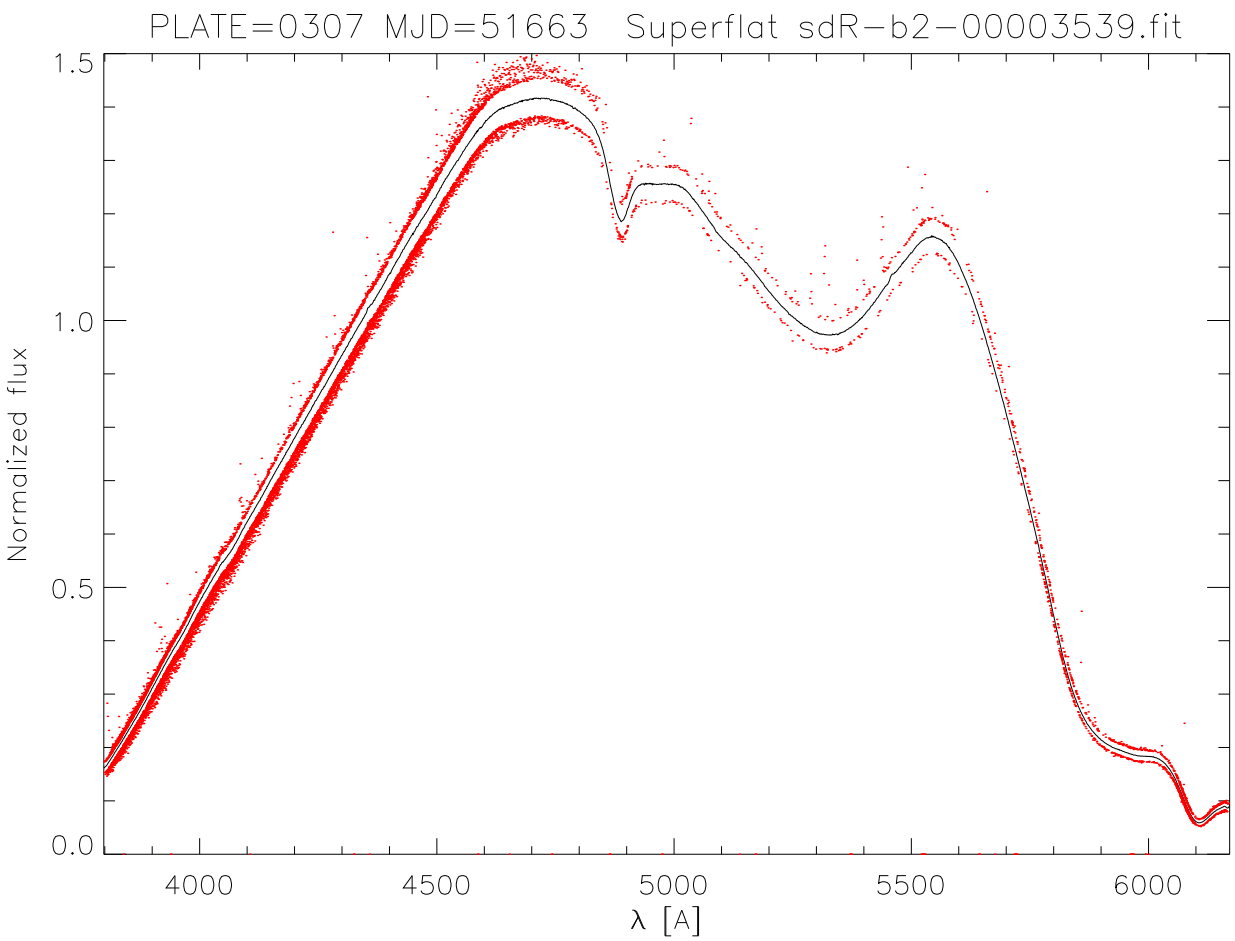

offset coeff residuals from ord=3 poly
0.0001
0.0000
−0.0001
0
50
100
150
200
250
300
fiber

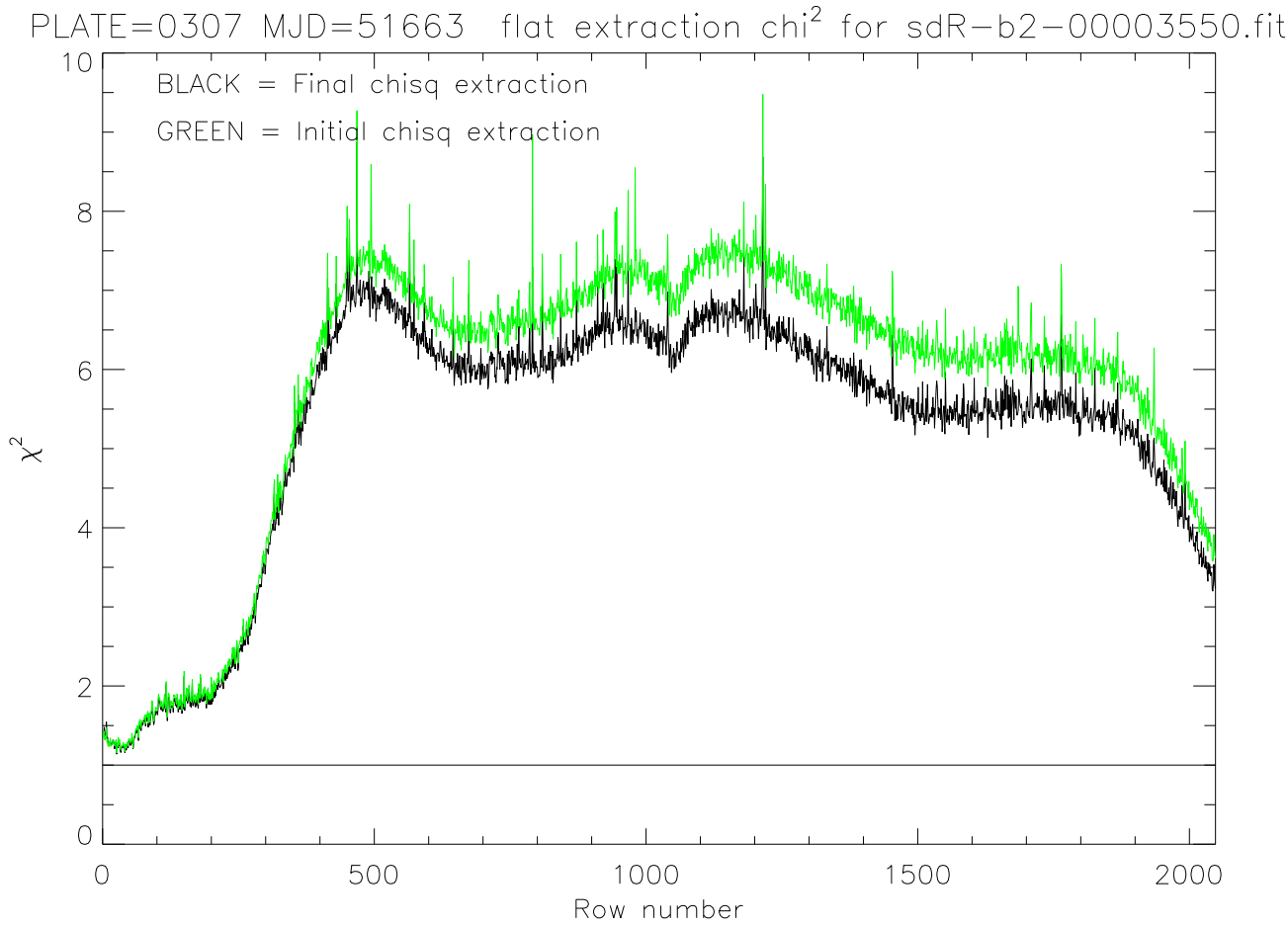

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

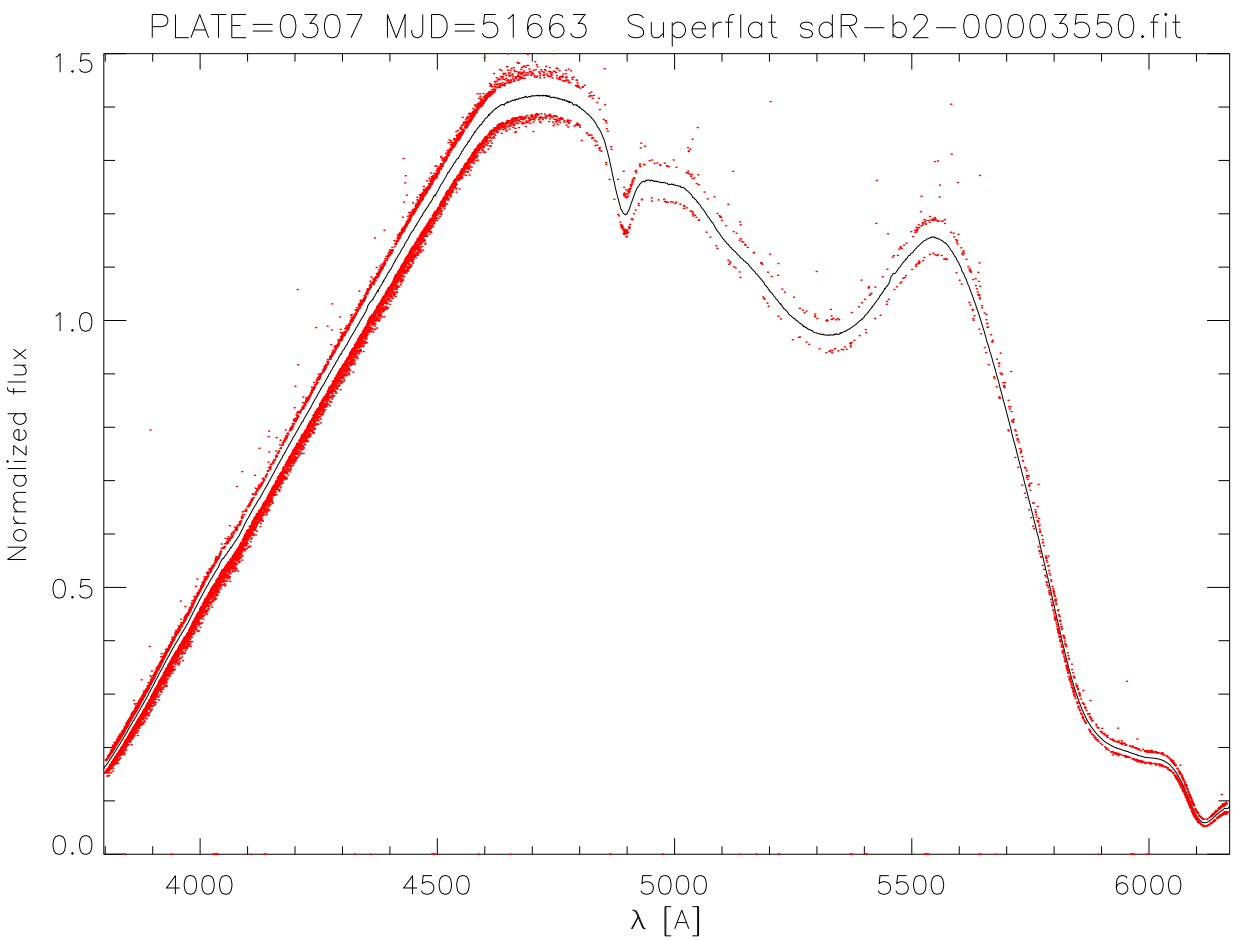

offset coeff residuals from ord=3 poly
0.0001
0.0000
−0.0001
0
50
100
150
200
250
300
fiber

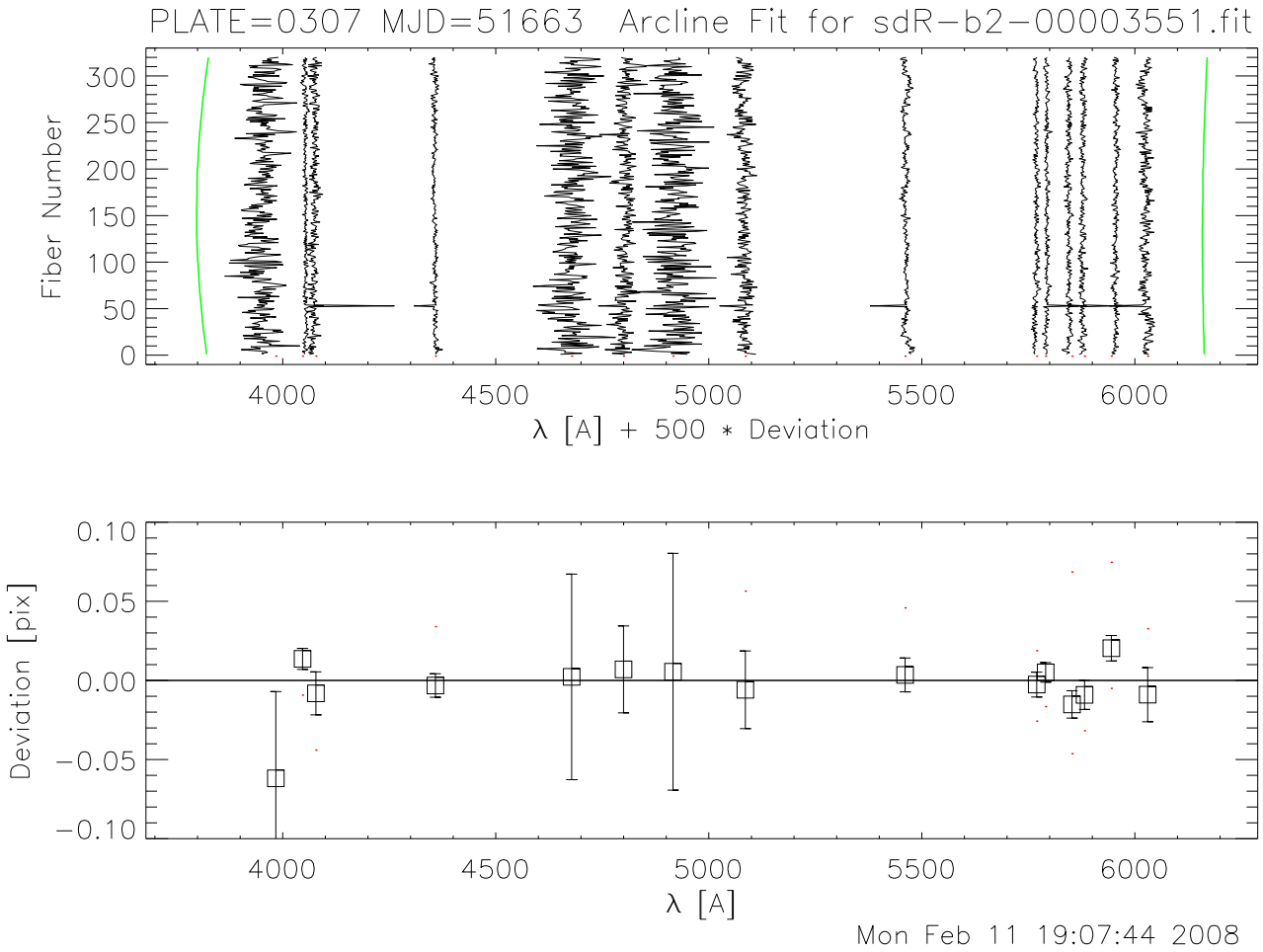

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

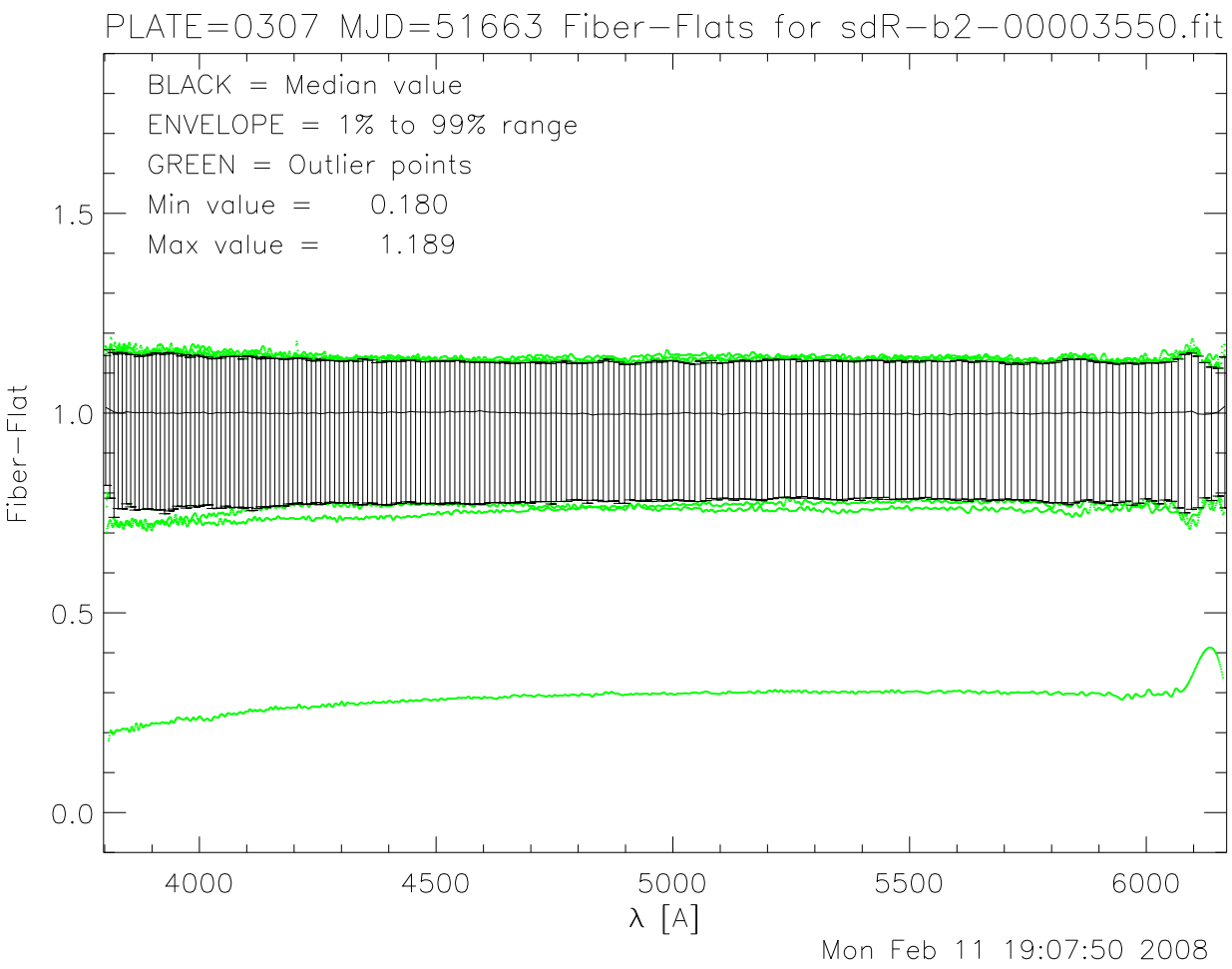

PLATE=0307 MJD=51663 flat extraction chi^2 for sdR−b2−00003539.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

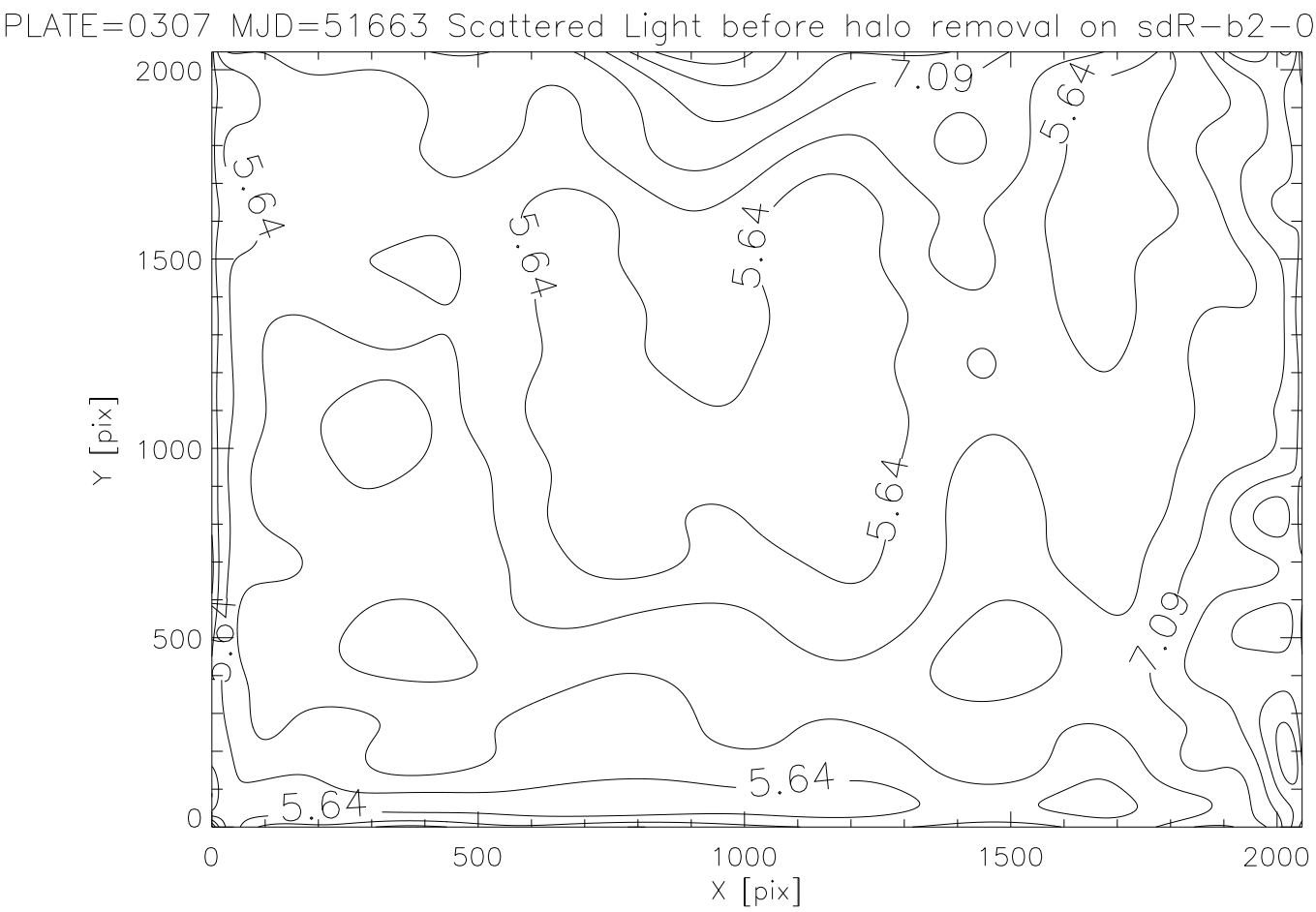

PLATE=0307 MJD=51663 Superflat sdR-b2-00003539.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

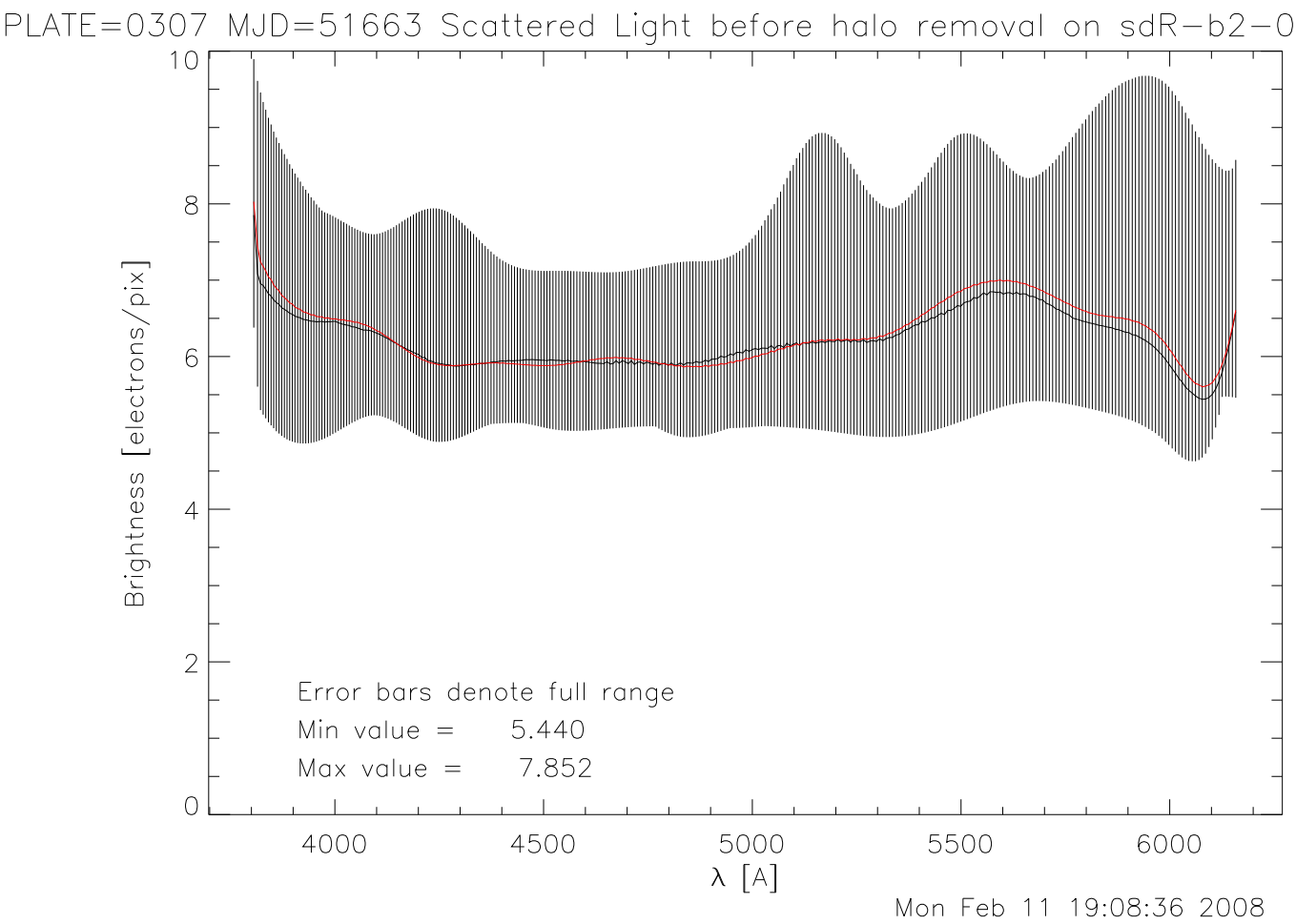

PLATE=0307 MJD=51663 flat extraction chi^2 for sdR-b2-00003550.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

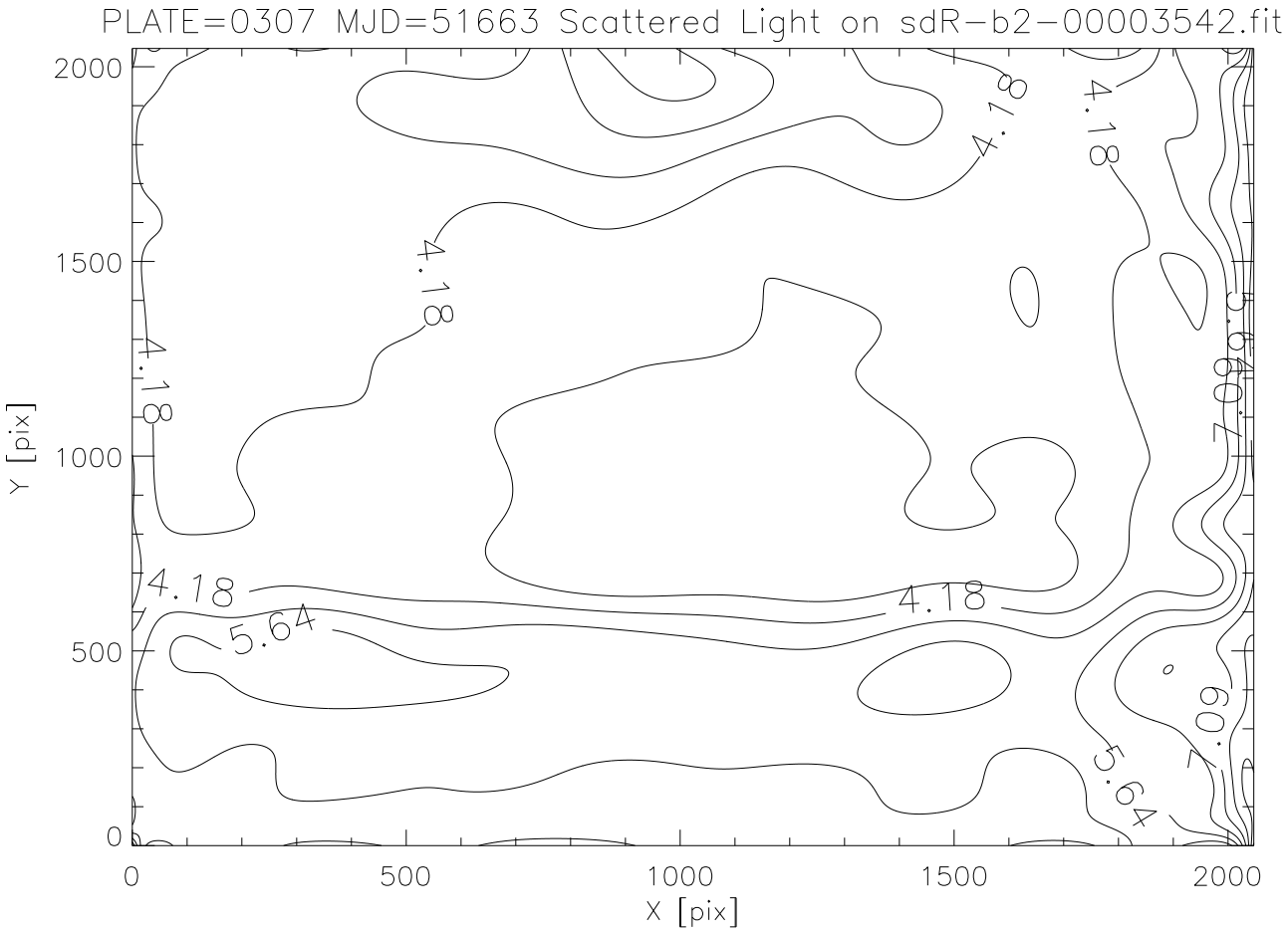

PLATE=0307 MJD=51663 Superflat sdR-b2-00003550.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

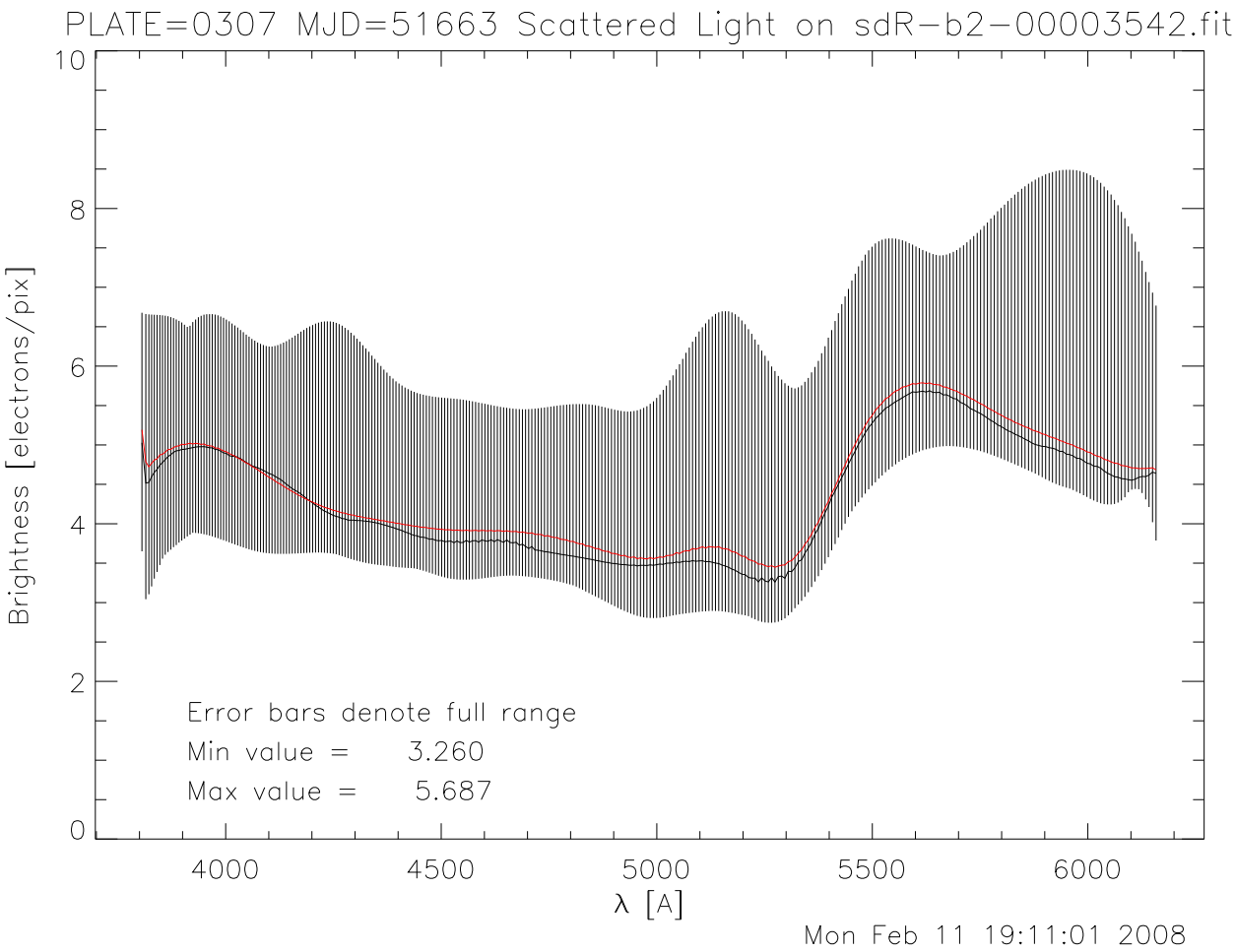

PLATE=0307 MJD=51663 Arcline Fit for sdR-b2-00003551.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 19:07:44 2008

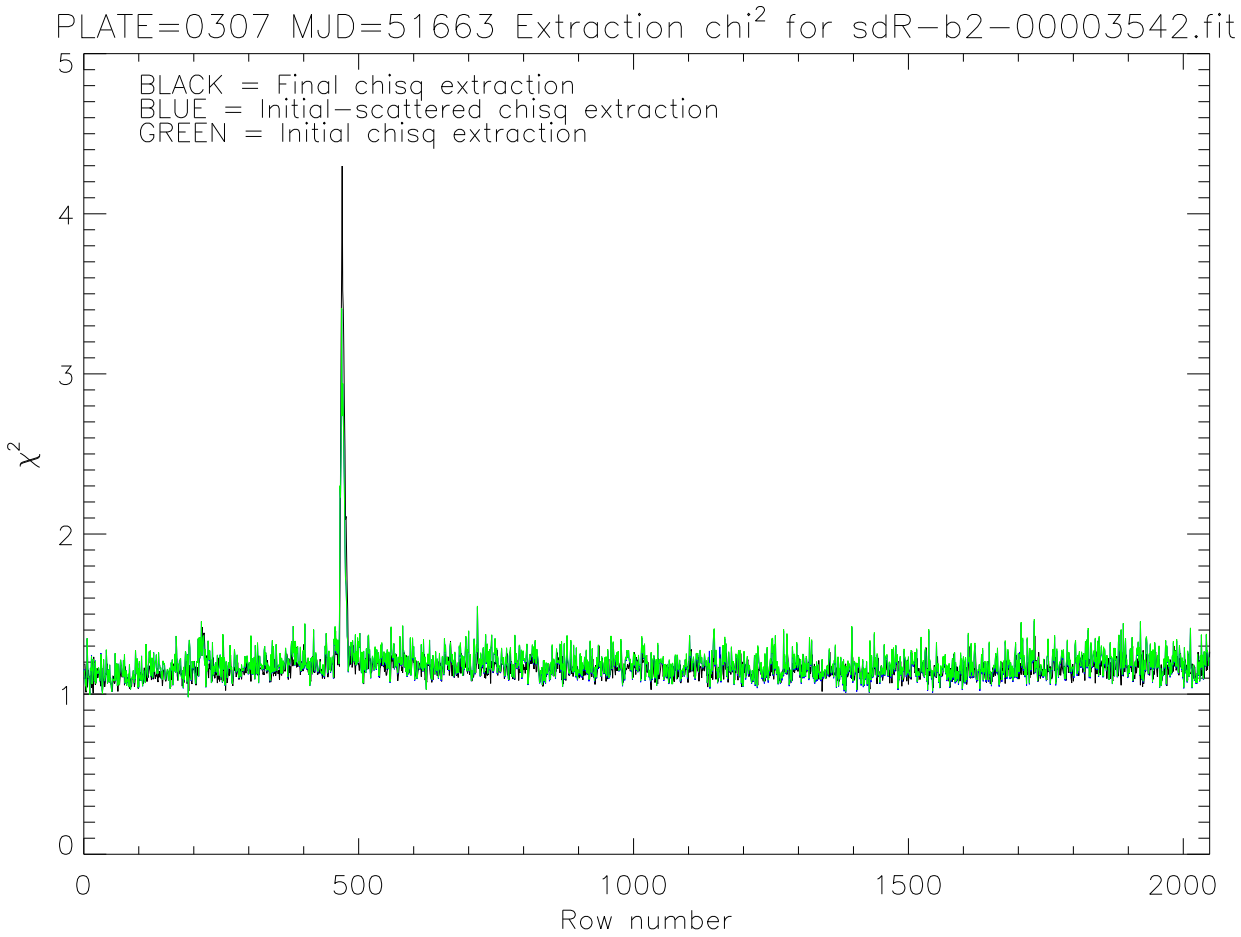

PLATE=0307 MJD=51663 Fiber-Flats for sdR-b2-00003550.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.180
Max value = 1.189
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 19:07:50 2008

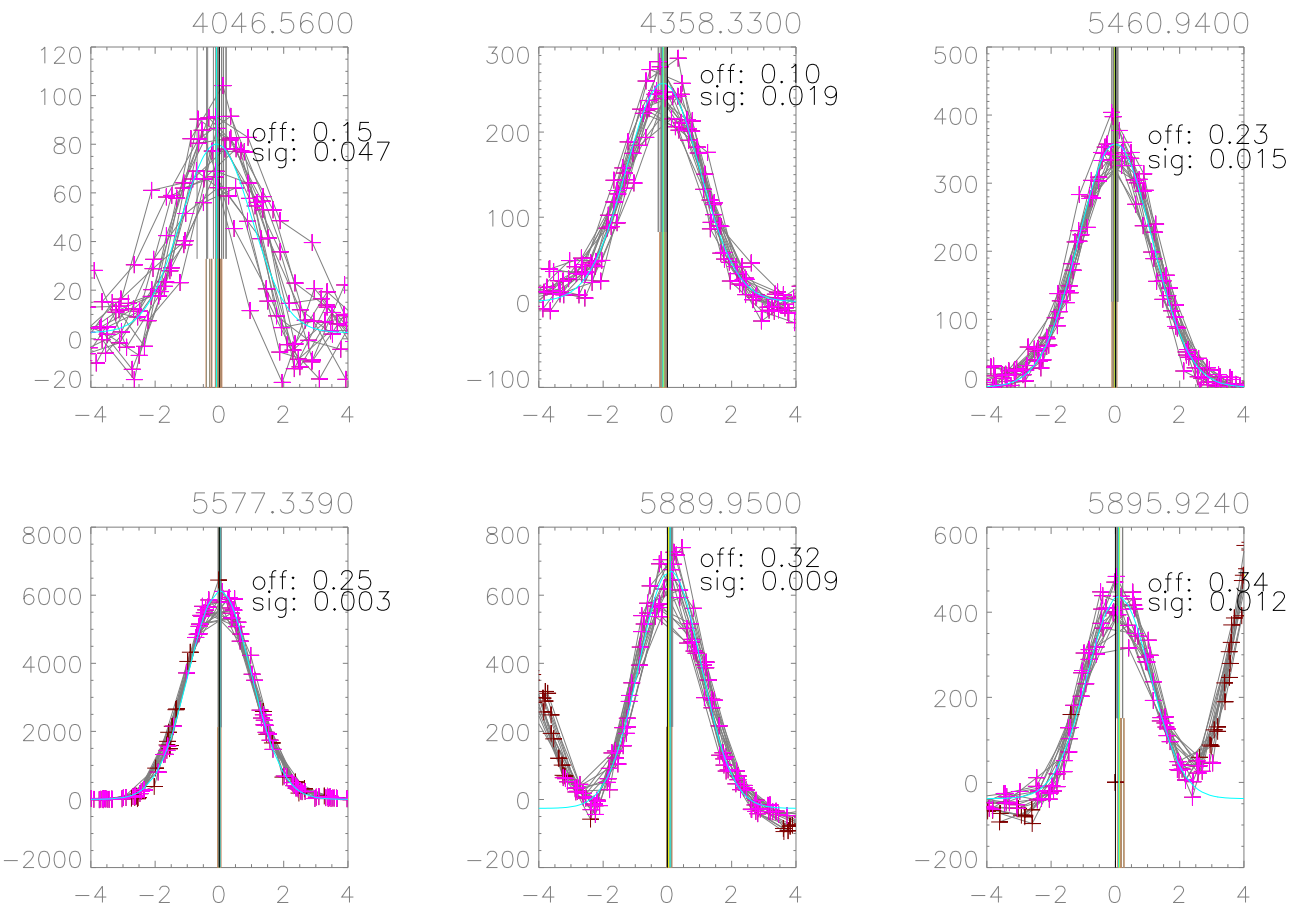

PLATE=0307 MJD=51663 Scattered Light before halo removal on sdR−b2−00003542.f
7.09
5.64
5.64
5.64
5.64
5.64
5.64
5.64
5.64
7.09
5.64
5.64
Y [pix]
X [pix]
0
500
1000
1500
2000

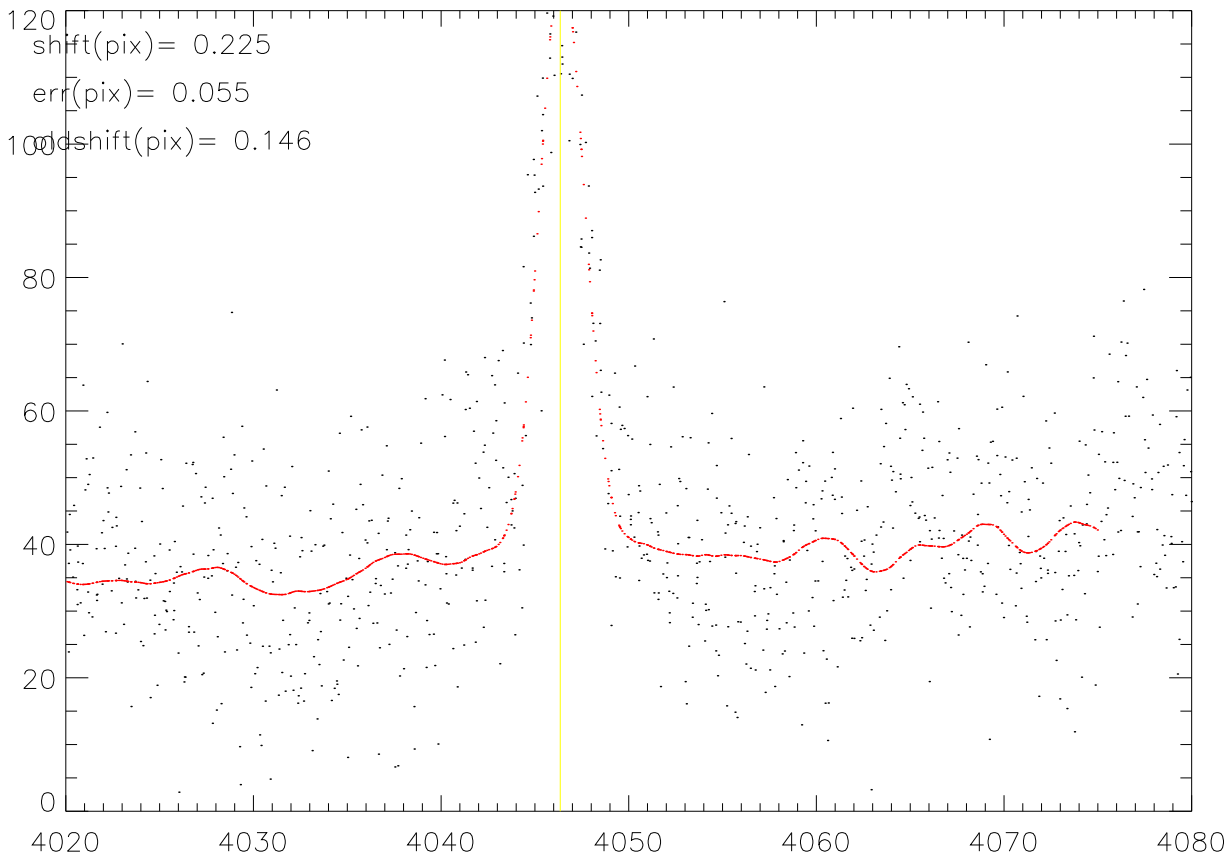

PLATE=0307 MJD=51663 Scattered Light before halo removal on sdR-b2-00003542.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.440
Max value = 7.852
Mon Feb 11 19:08:36 2008

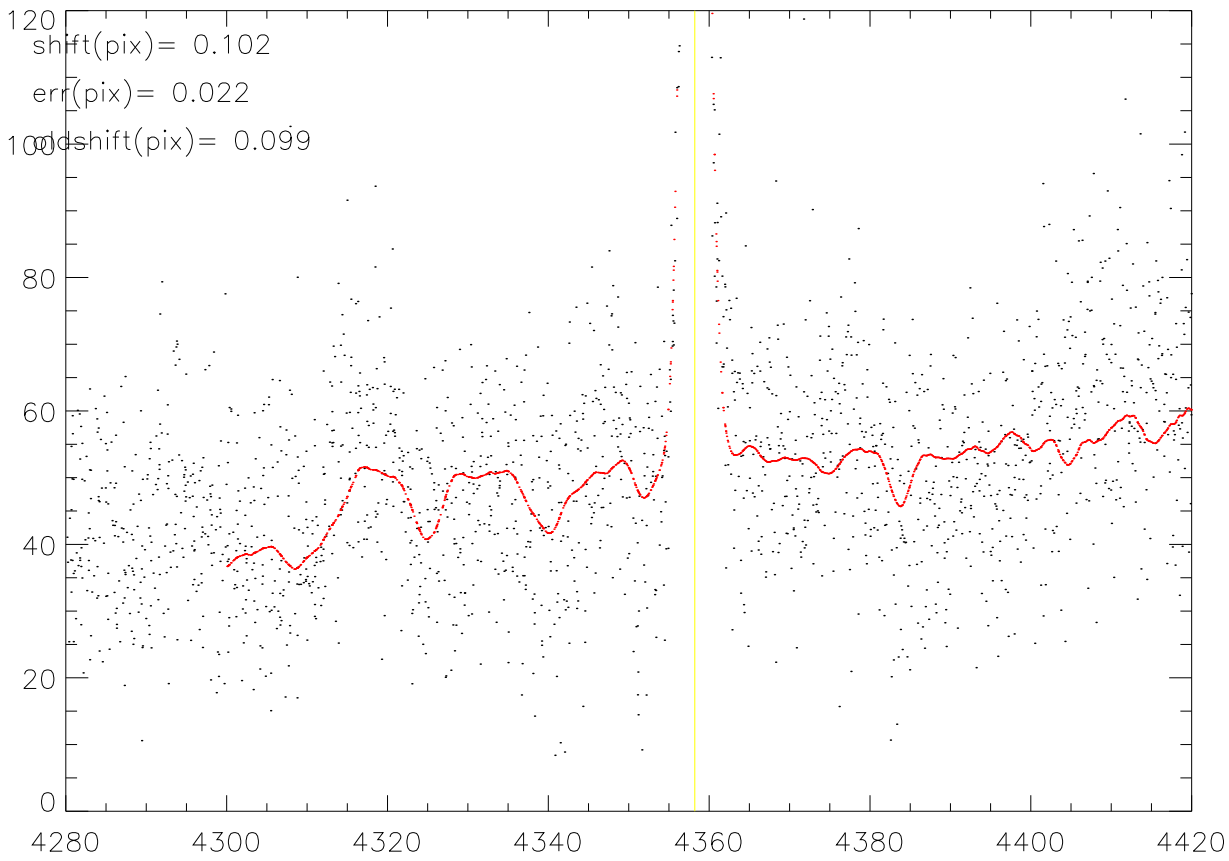

PLATE=0307 MJD=51663 Scattered Light on sdR-b2-00003542.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
4.18
5.64
60.7

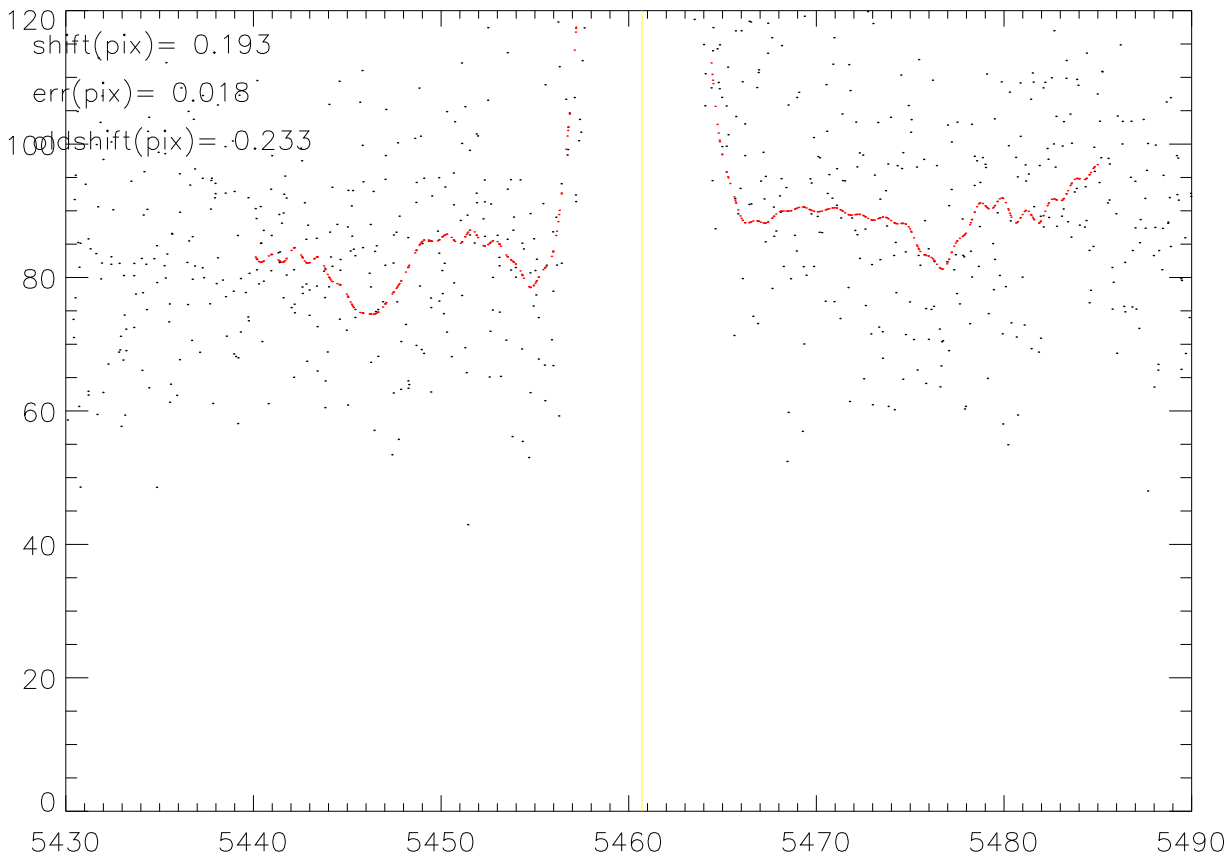

PLATE=0307 MJD=51663 Scattered Light on sdR-b2-00003542.fit
Brightness [electrons/pix]
10
8
6
4
2
0
Error bars denote full range
Min value = 3.260
Max value = 5.687
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 19:11:01 2008

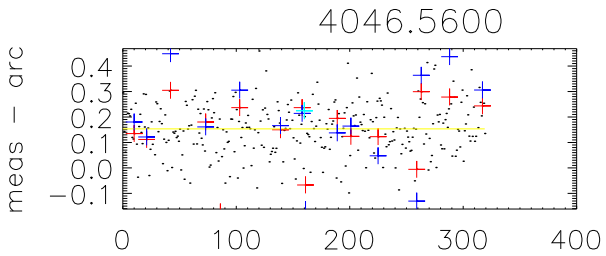

PLATE=0307 MJD=51663 Extraction chi^2 for sdR−b2−00003542.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

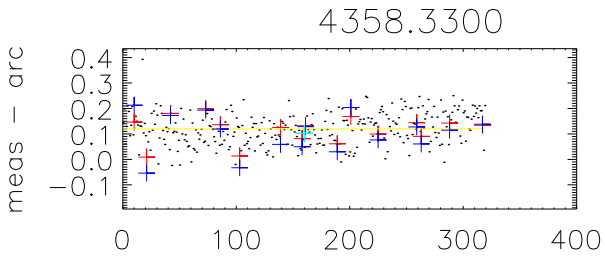

4046.5600
off: 0.15
sig: 0.047
4358.3300
off: 0.10
sig: 0.019
5460.9400
off: 0.23
sig: 0.015
5577.3390
off: 0.25
sig: 0.003
5889.9500
off: 0.32
sig: 0.009
5895.9240
off: 0.34
sig: 0.012

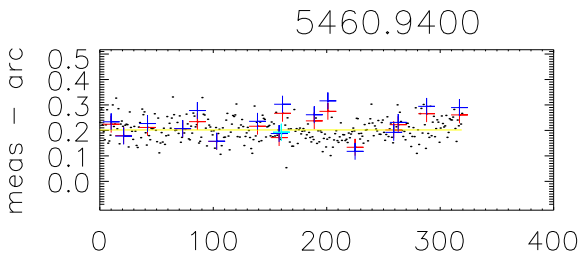

shift(pix)= 0.225
err(pix)= 0.055
oldshift(pix)= 0.146
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

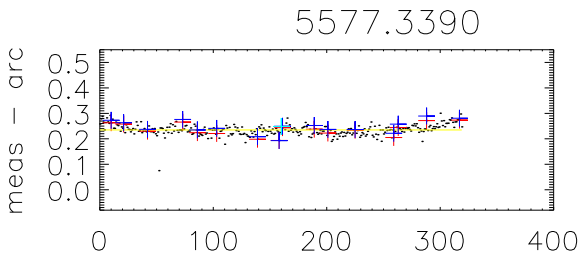

shift(pix)= 0.102
err(pix)= 0.022
oldshift(pix)= 0.099
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

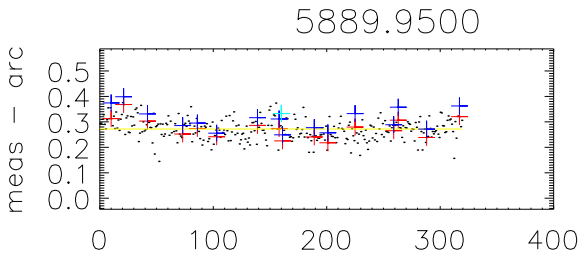

shift(pix)= 0.193
err(pix)= 0.018
oldshift(pix)= 0.233
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

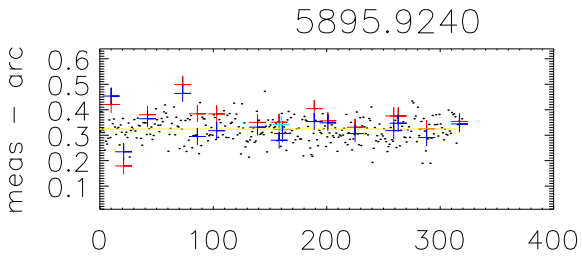

4046.5600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

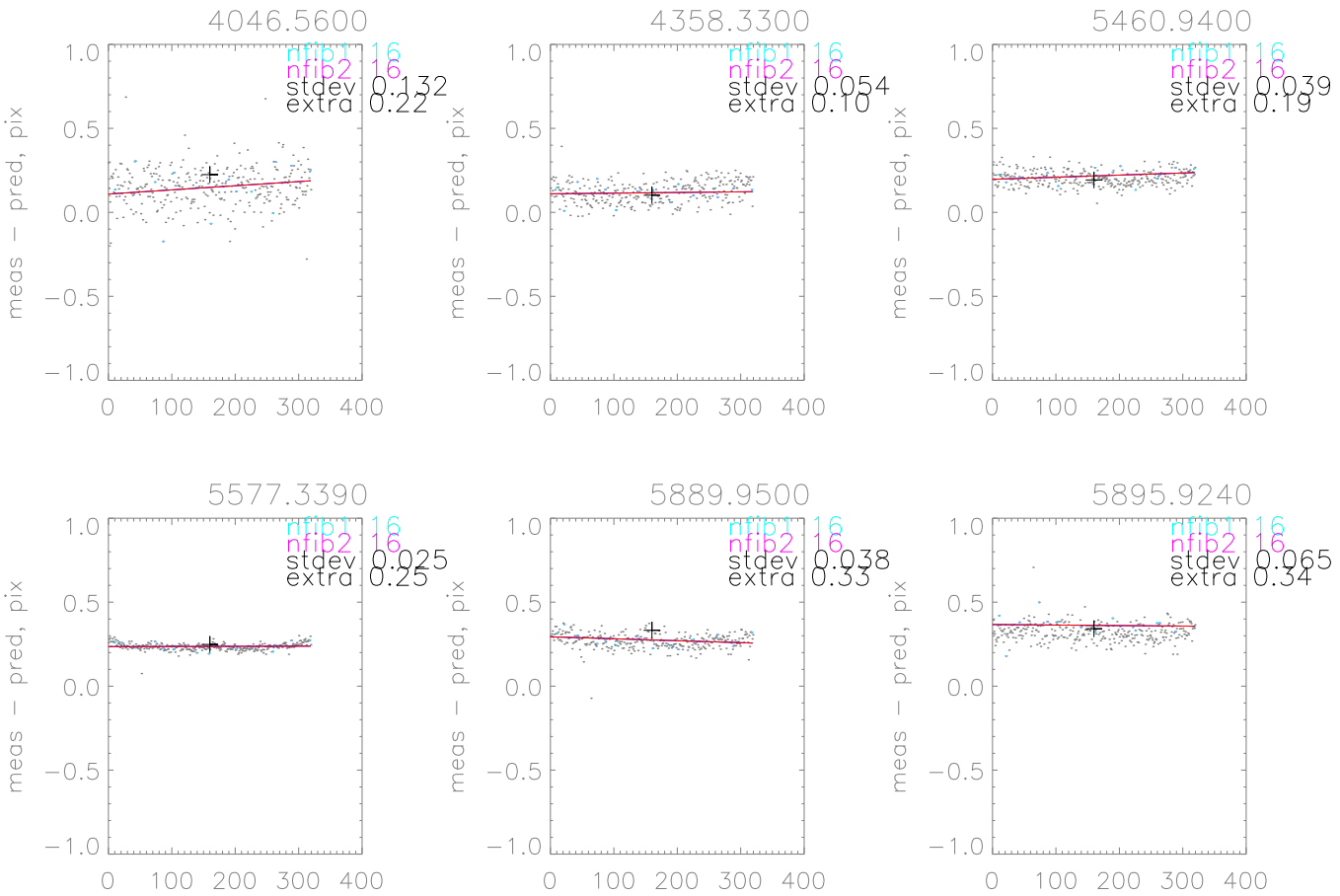

4358.3300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

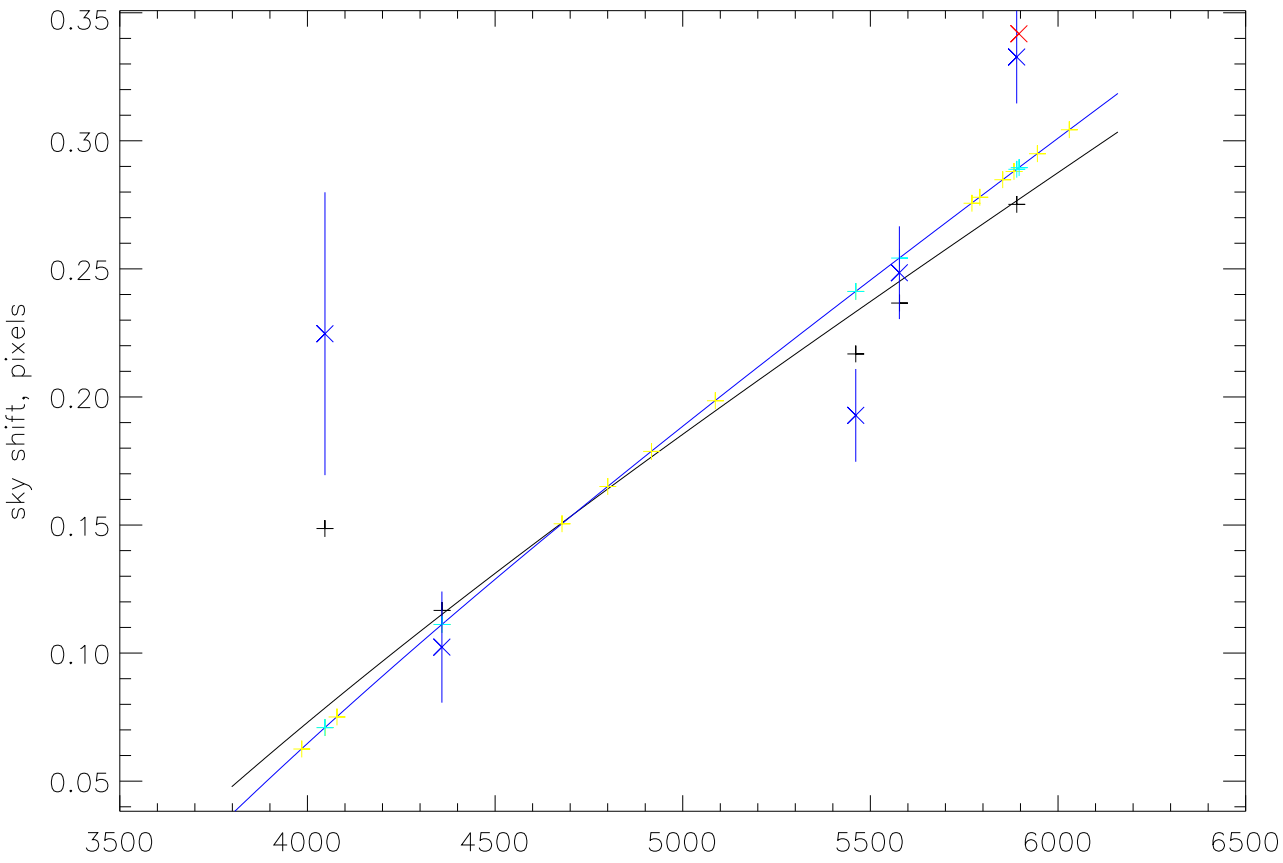

5460.9400
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

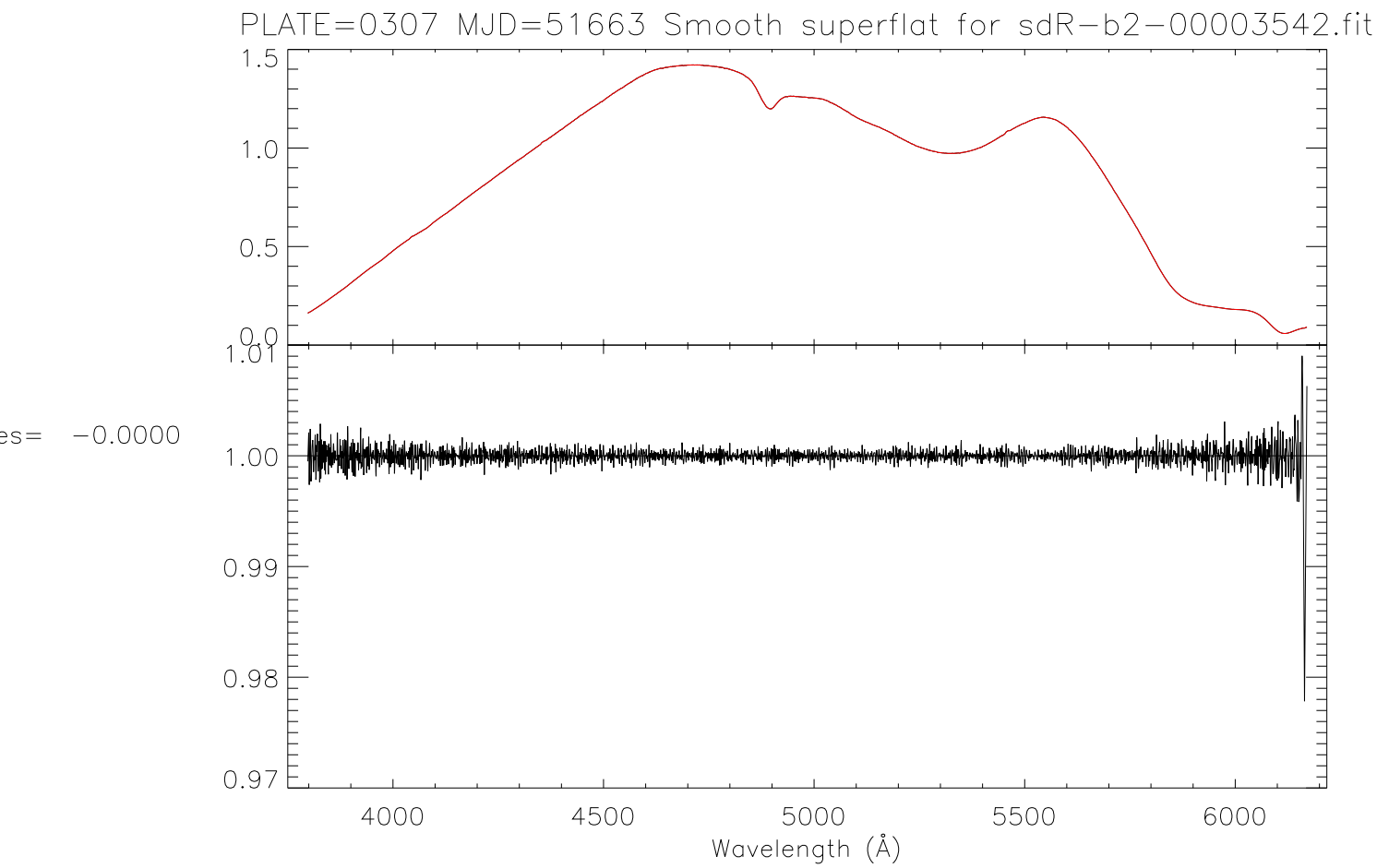

5577.3390
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400


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

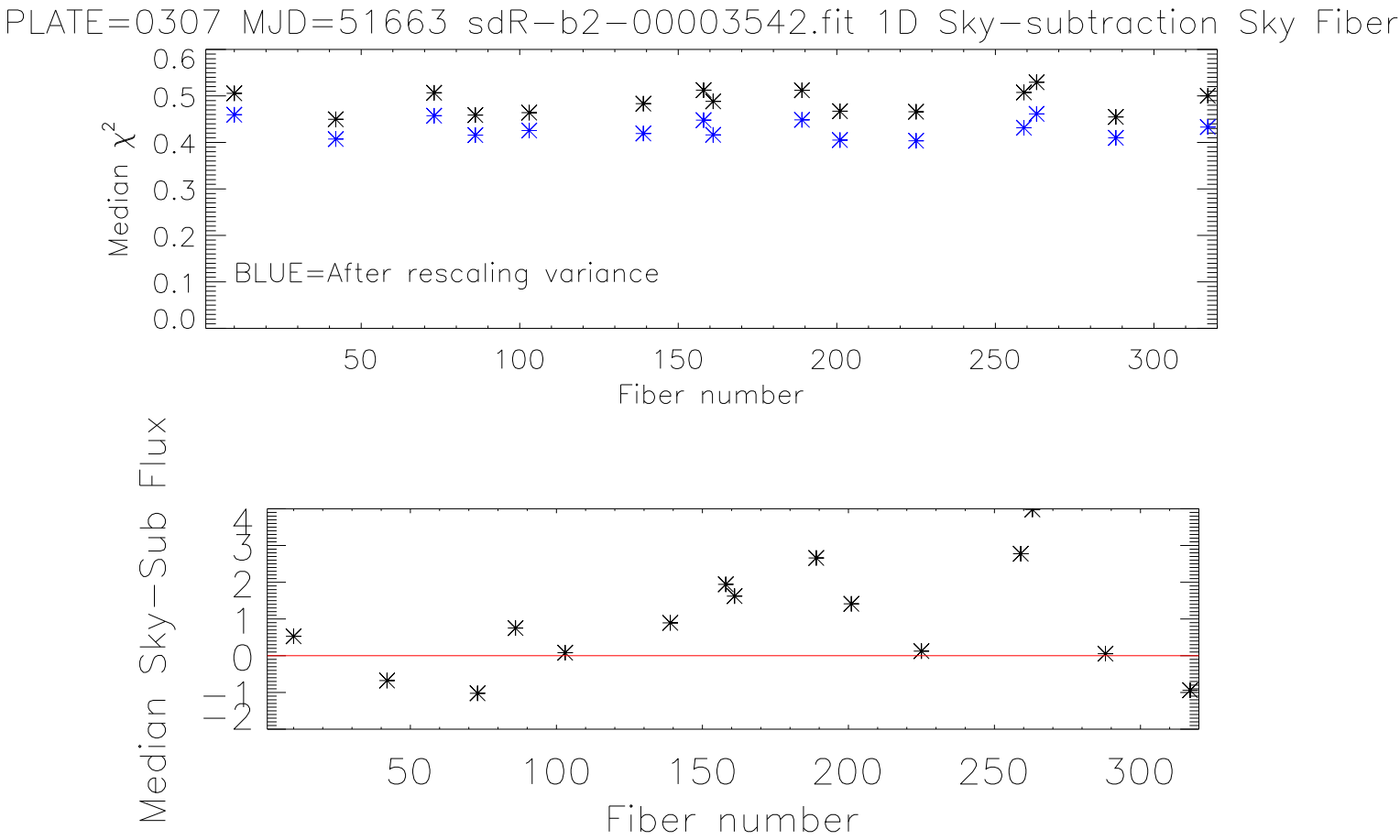

5895.9240
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

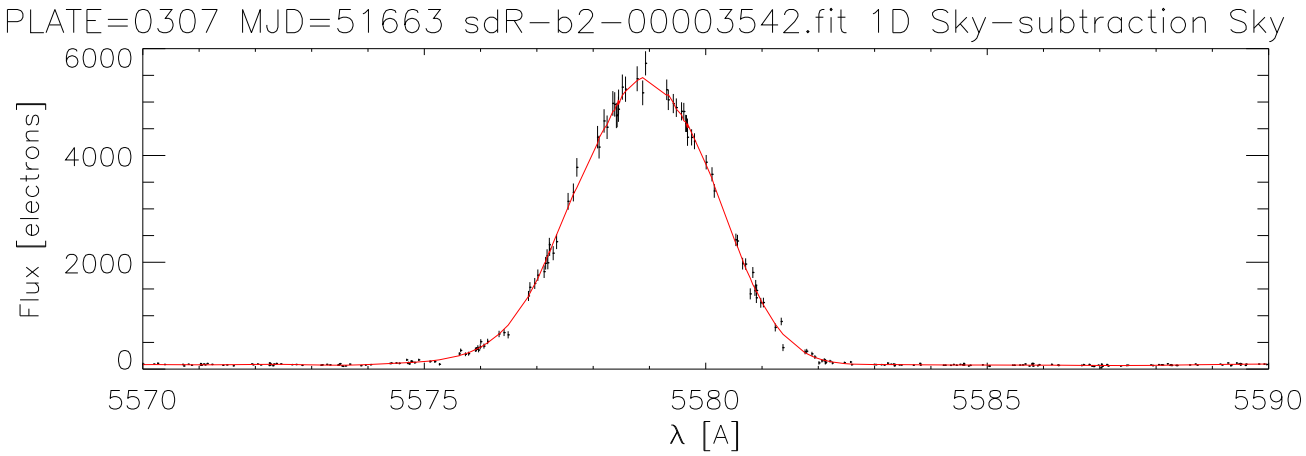

4046.5600
nfib1 16
nfib2 16
stdev 0.132
extra 0.22
4358.3300
nfib1 16
nfib2 16
stdev 0.054
extra 0.10
5460.9400
nfib1 16
nfib2 16
stdev 0.039
extra 0.19
5577.3390
nfib1 16
nfib2 16
stdev 0.025
extra 0.25
5889.9500
nfib1 16
nfib2 16
stdev 0.038
extra 0.33
5895.9240
nfib1 16
nfib2 16
stdev 0.065
extra 0.34
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

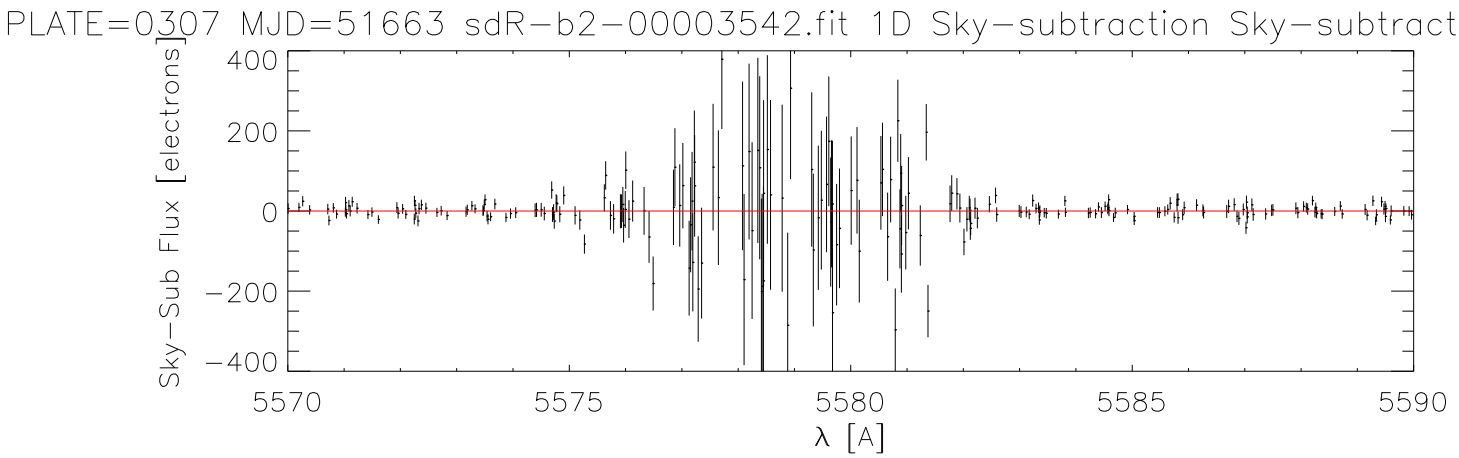

0.35
0.30
0.25
0.20
0.15
0.10
0.05
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

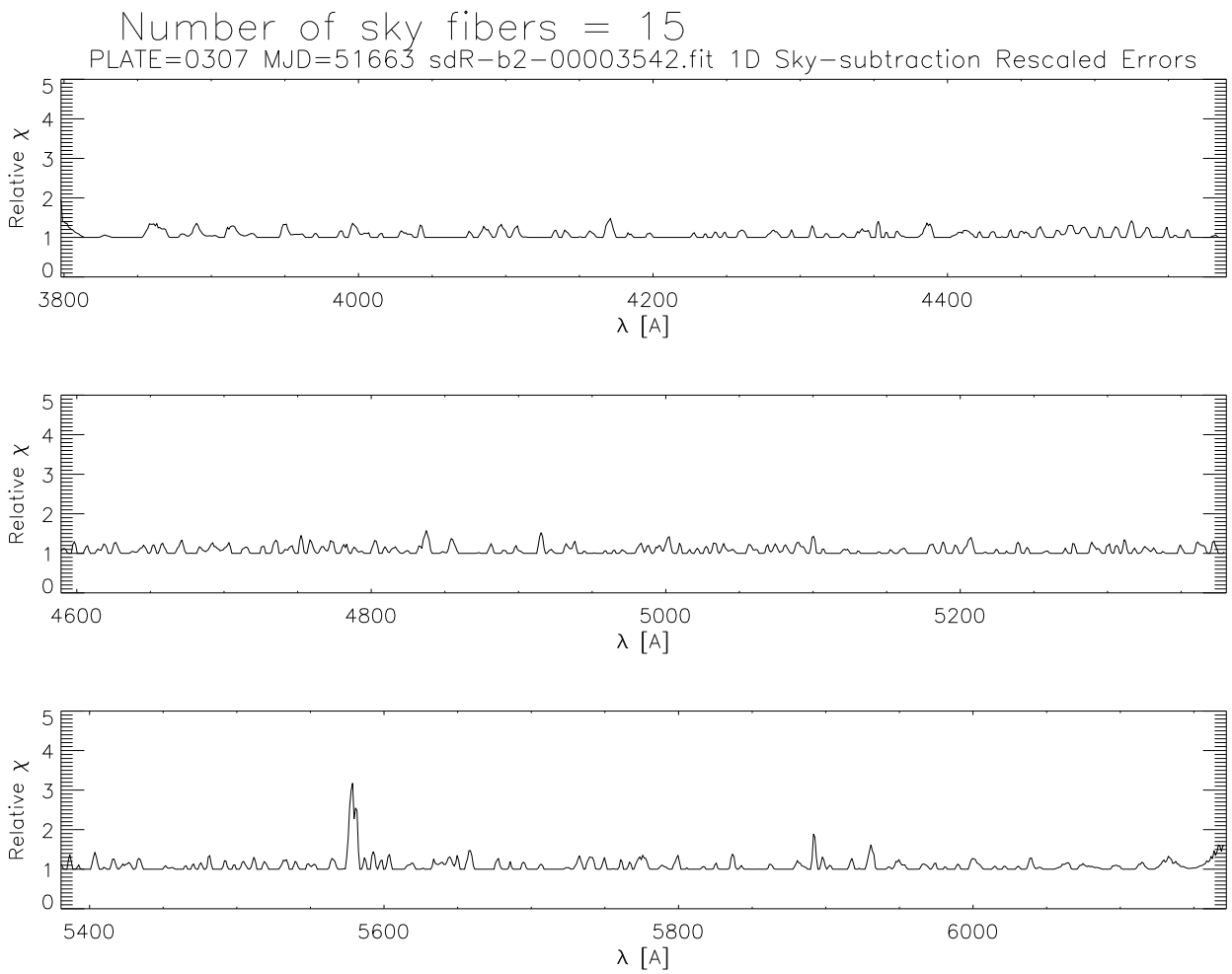

PLATE=0307 MJD=51663 Smooth superflat for sdR-b2-00003542.fit
1.5
1.0
0.5
0.0
1.01
1.00
0.99
0.98
0.97
4000
4500
5000
5500
6000
Wavelength (Å)

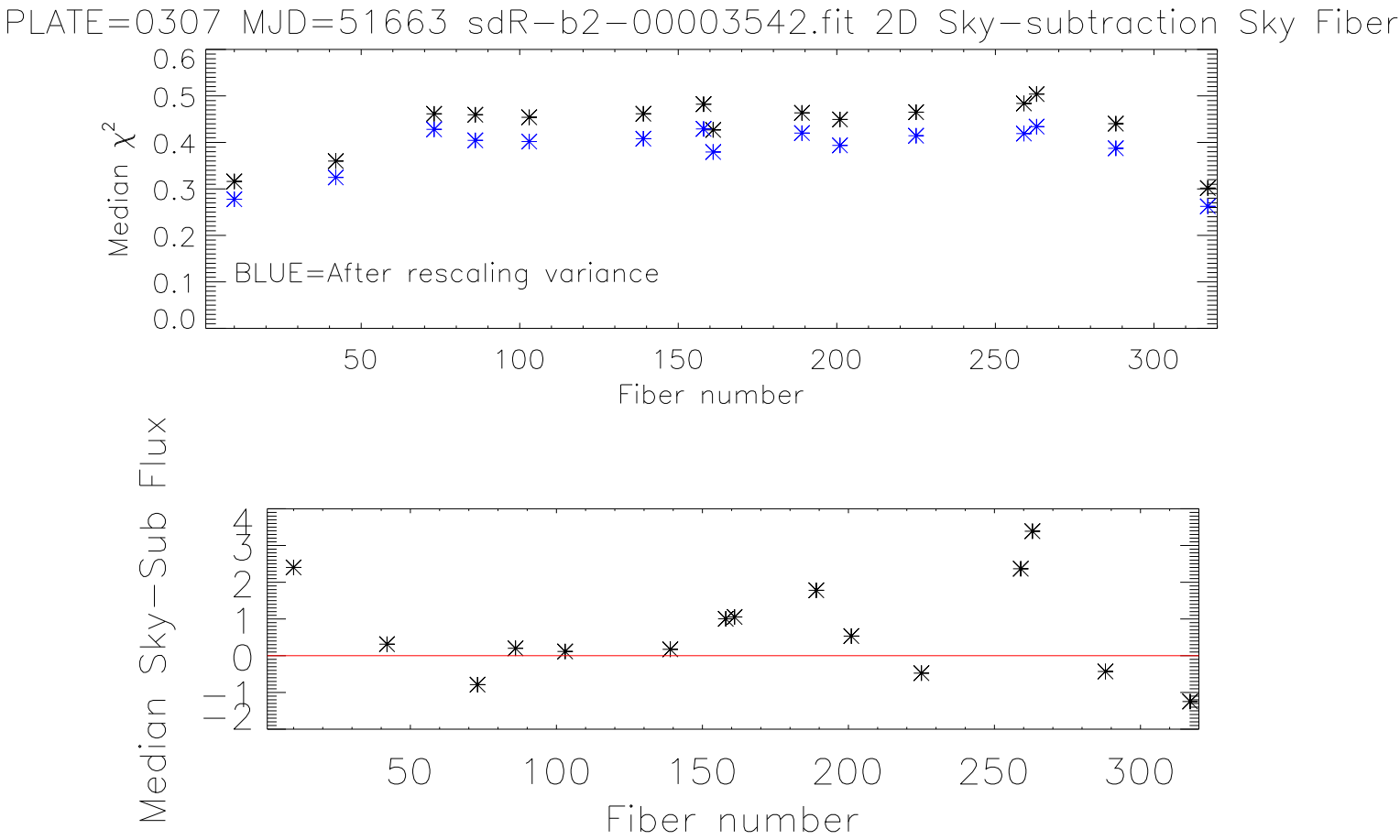
es= −0.0000

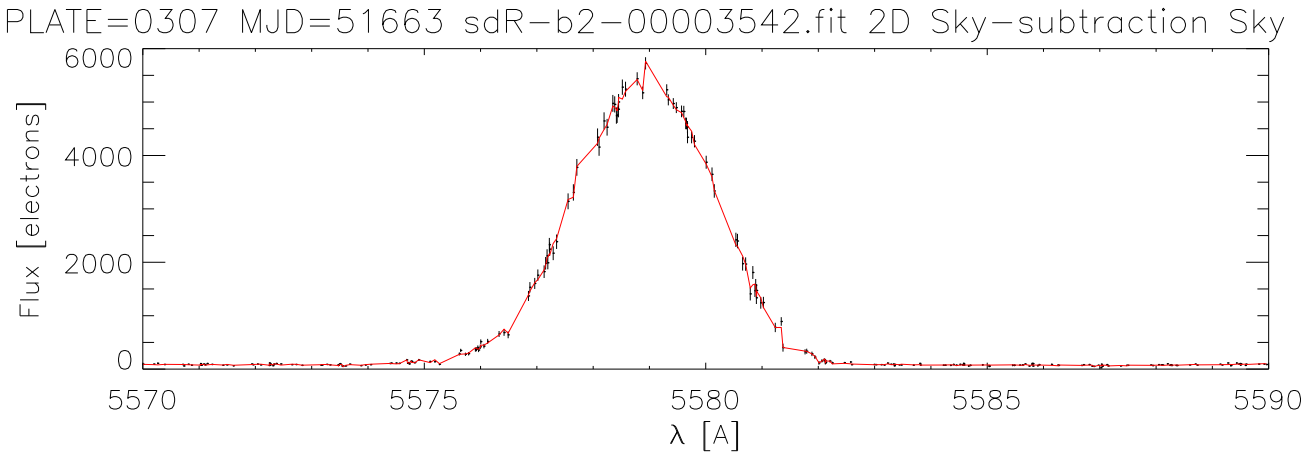

PLATE=0307 MJD=51663 sdR-b2-00003542.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

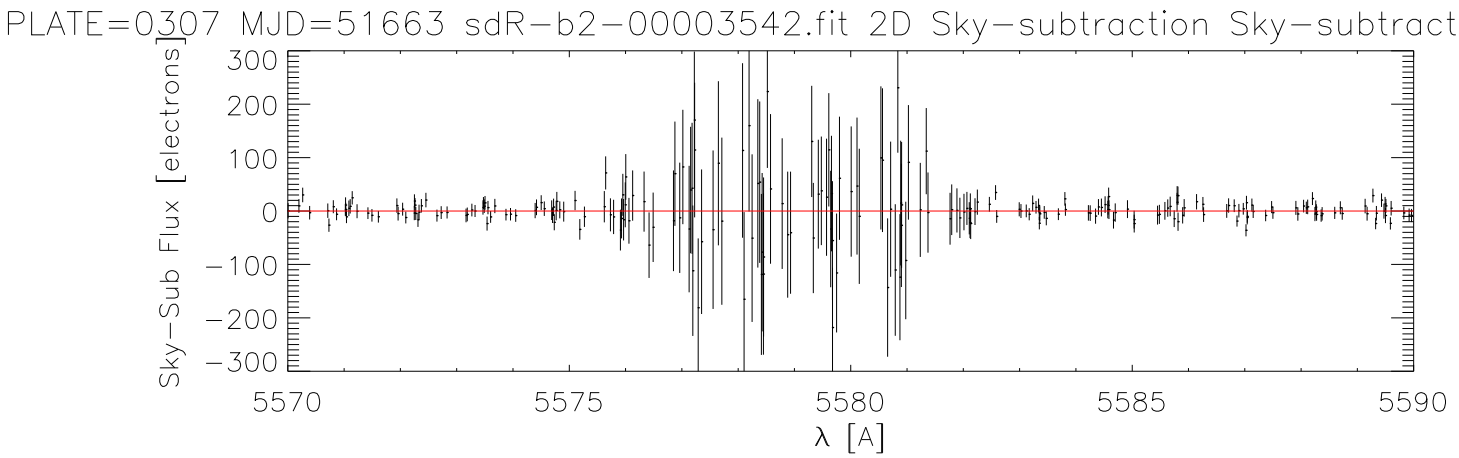

PLATE=0307 MJD=51663 sdR-b2-00003542.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

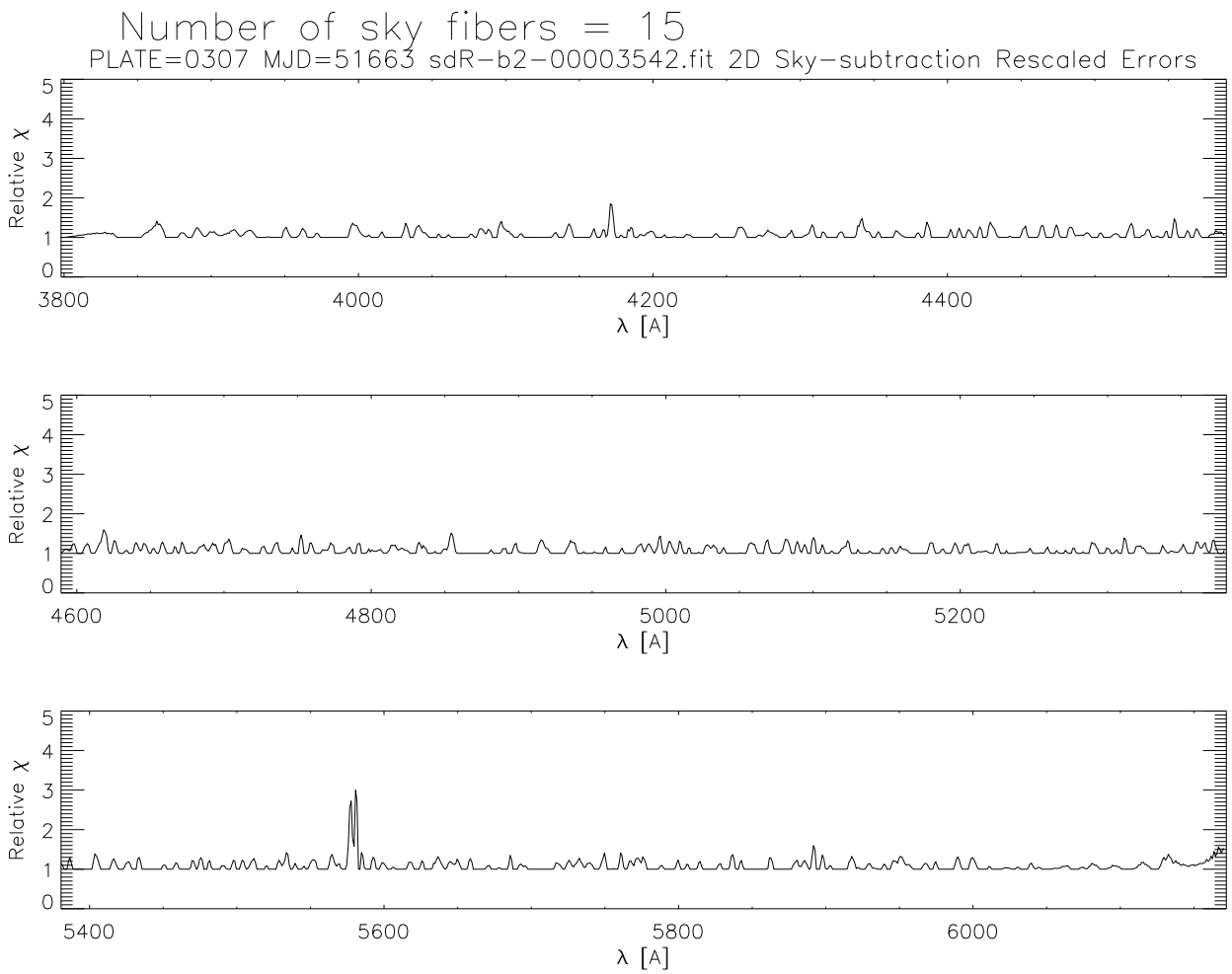

PLATE=0307 MJD=51663 sdR-b2-00003542.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

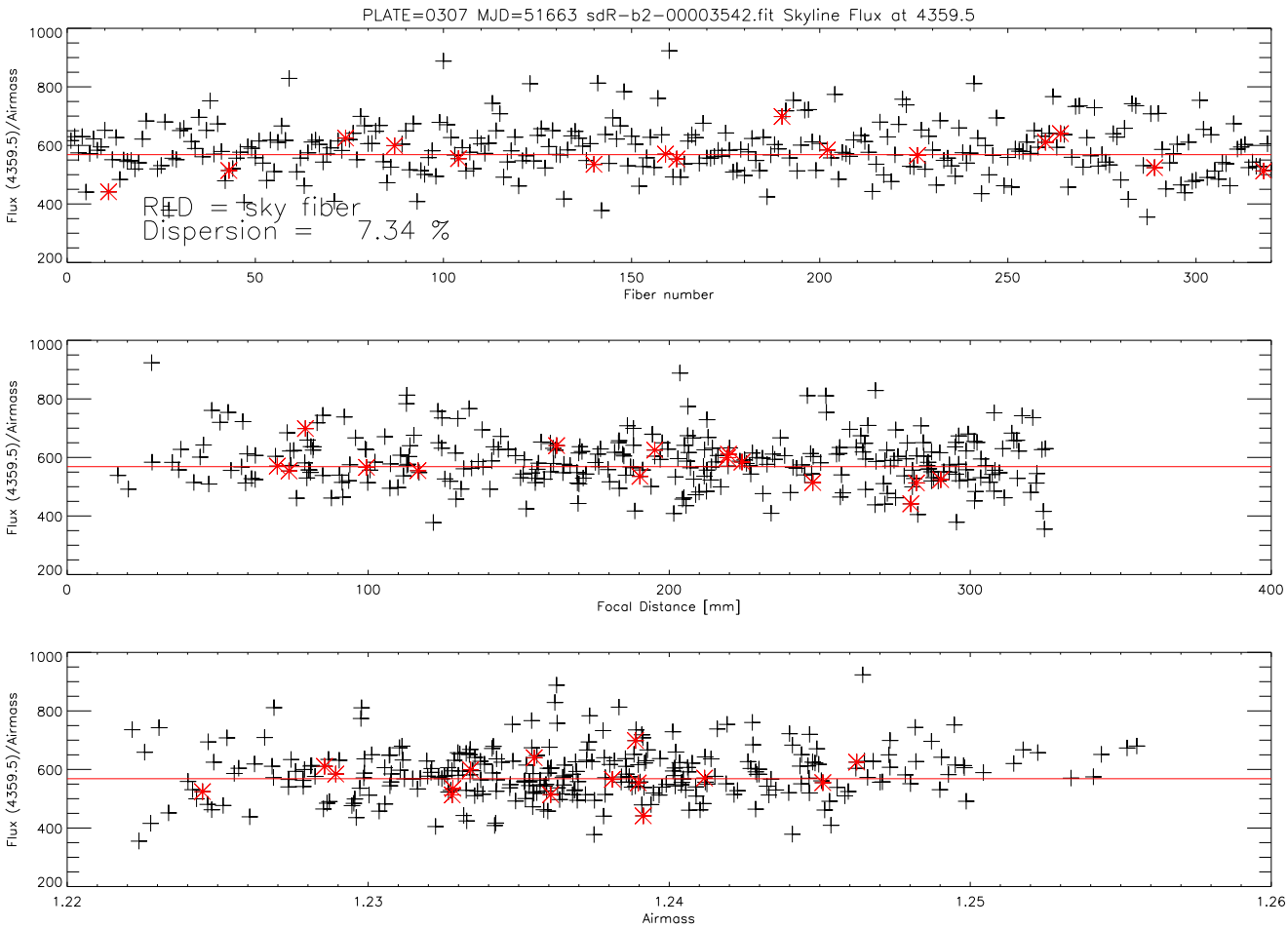

Number of sky fibers = 15
PLATE=0307 MJD=51663 sdR-b2-00003542.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

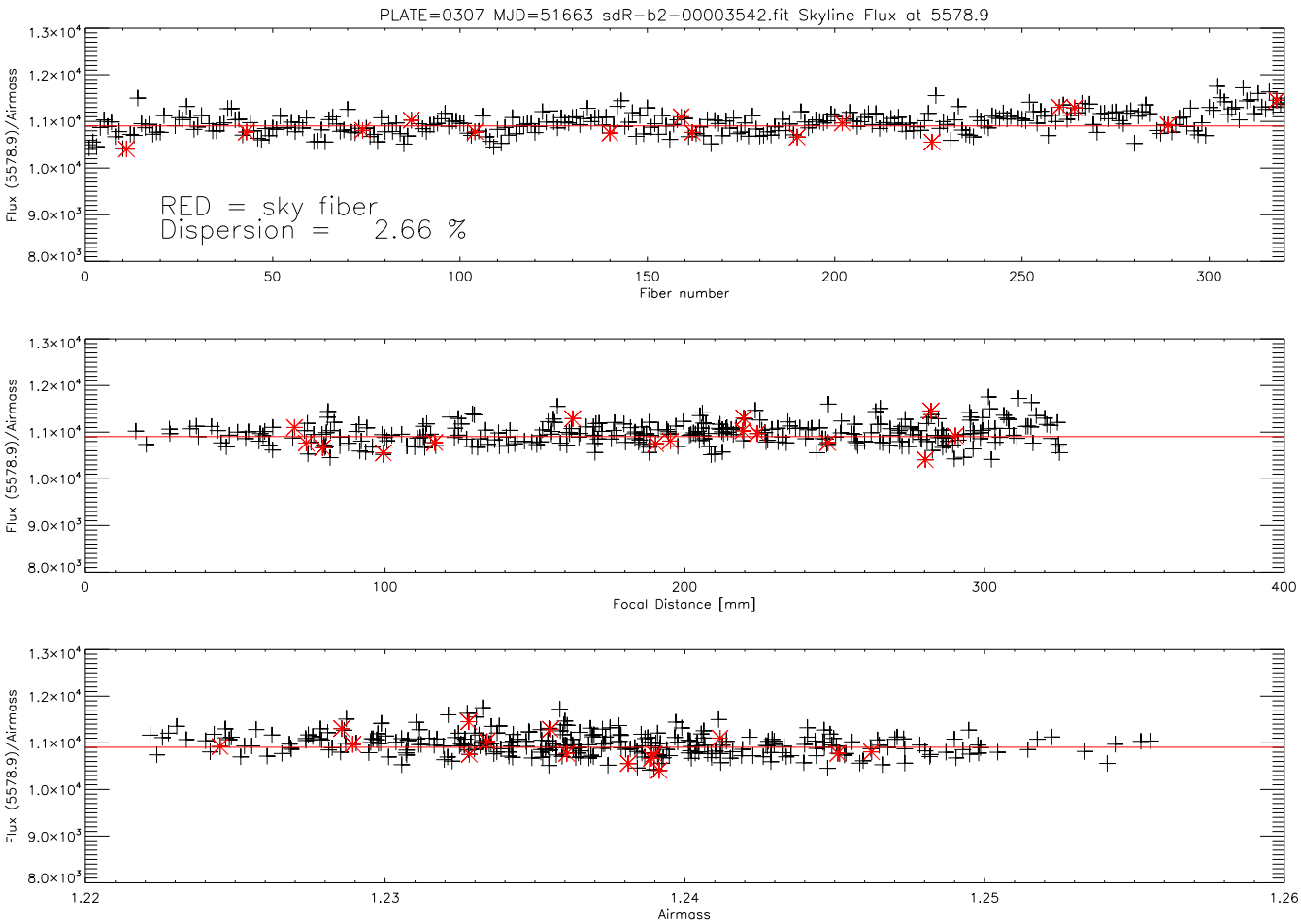

PLATE=0307 MJD=51663 sdR-b2-00003542.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

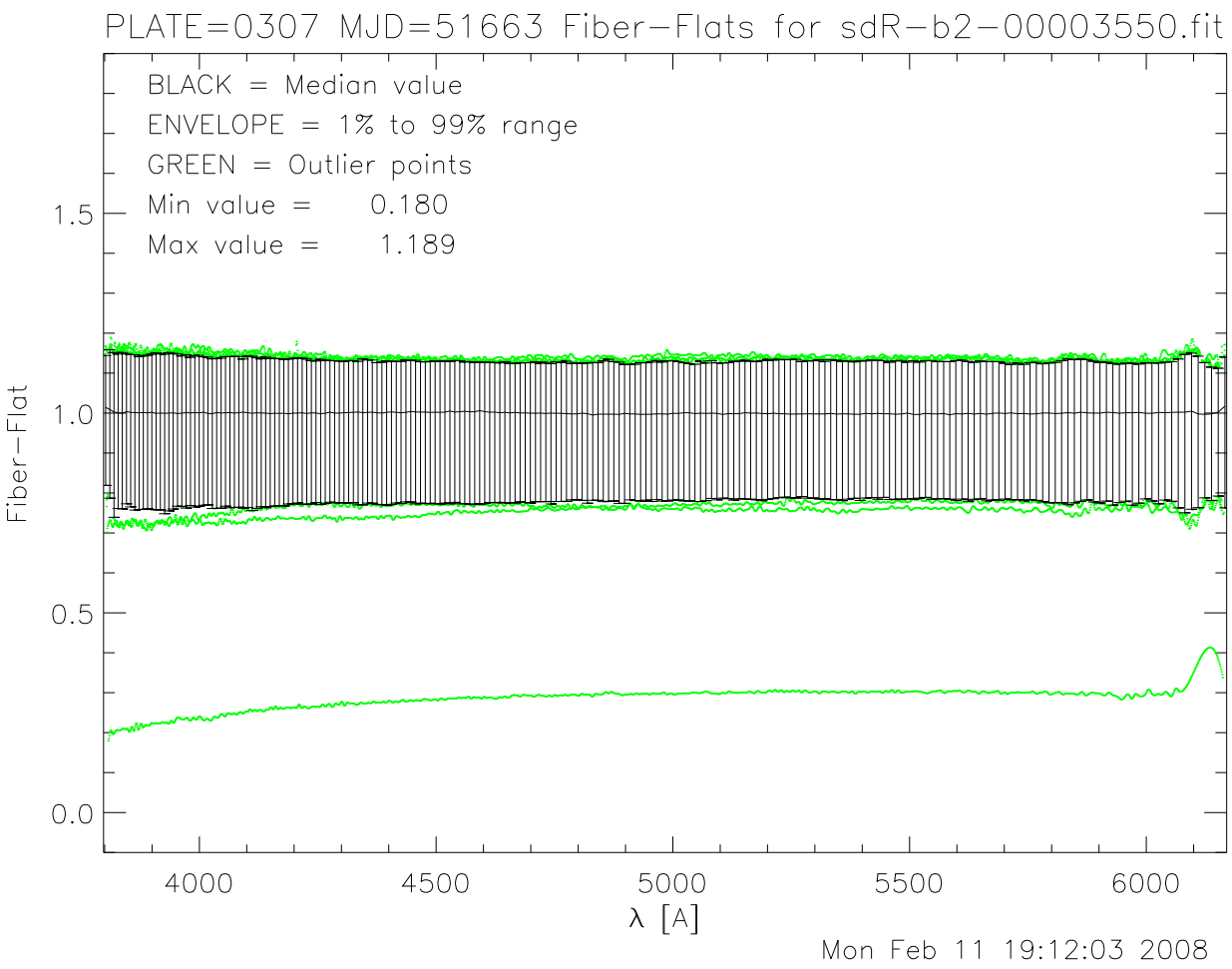

PLATE=0307 MJD=51663 sdR-b2-00003542.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]


PLATE=0307 MJD=51663 sdR-b2-00003542.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=0307 MJD=51663 sdR-b2-00003542.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000


PLATE=0307 MJD=51663 sdR-b2-00003542.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 7.34 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass


PLATE=0307 MJD=51663 sdR-b2-00003542.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.66 %
Fiber number
Focal Distance [mm]
Airmass


PLATE=0307 MJD=51663 Fiber-Flats for sdR-b2-00003550.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.180
Max value = 1.189
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
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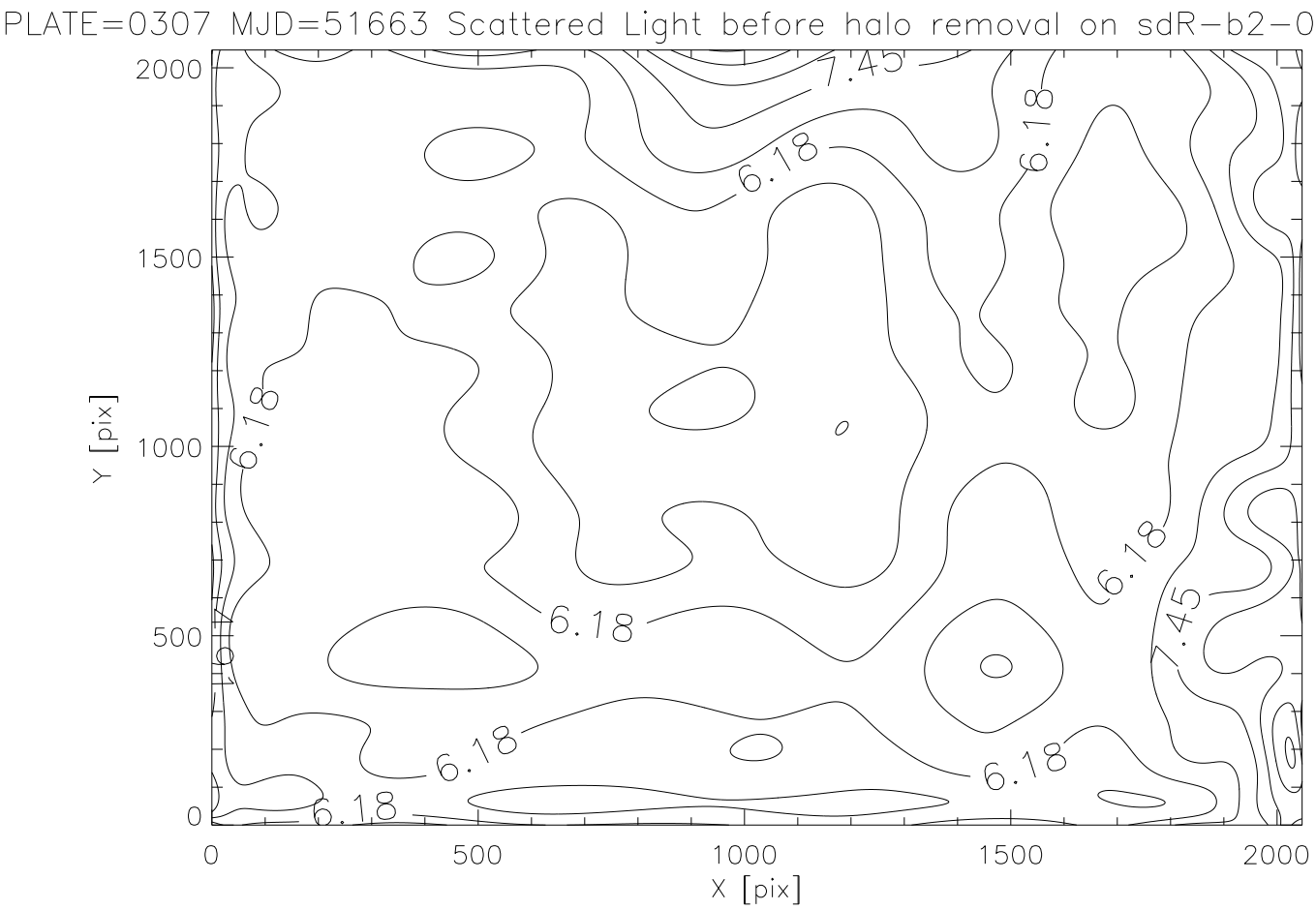
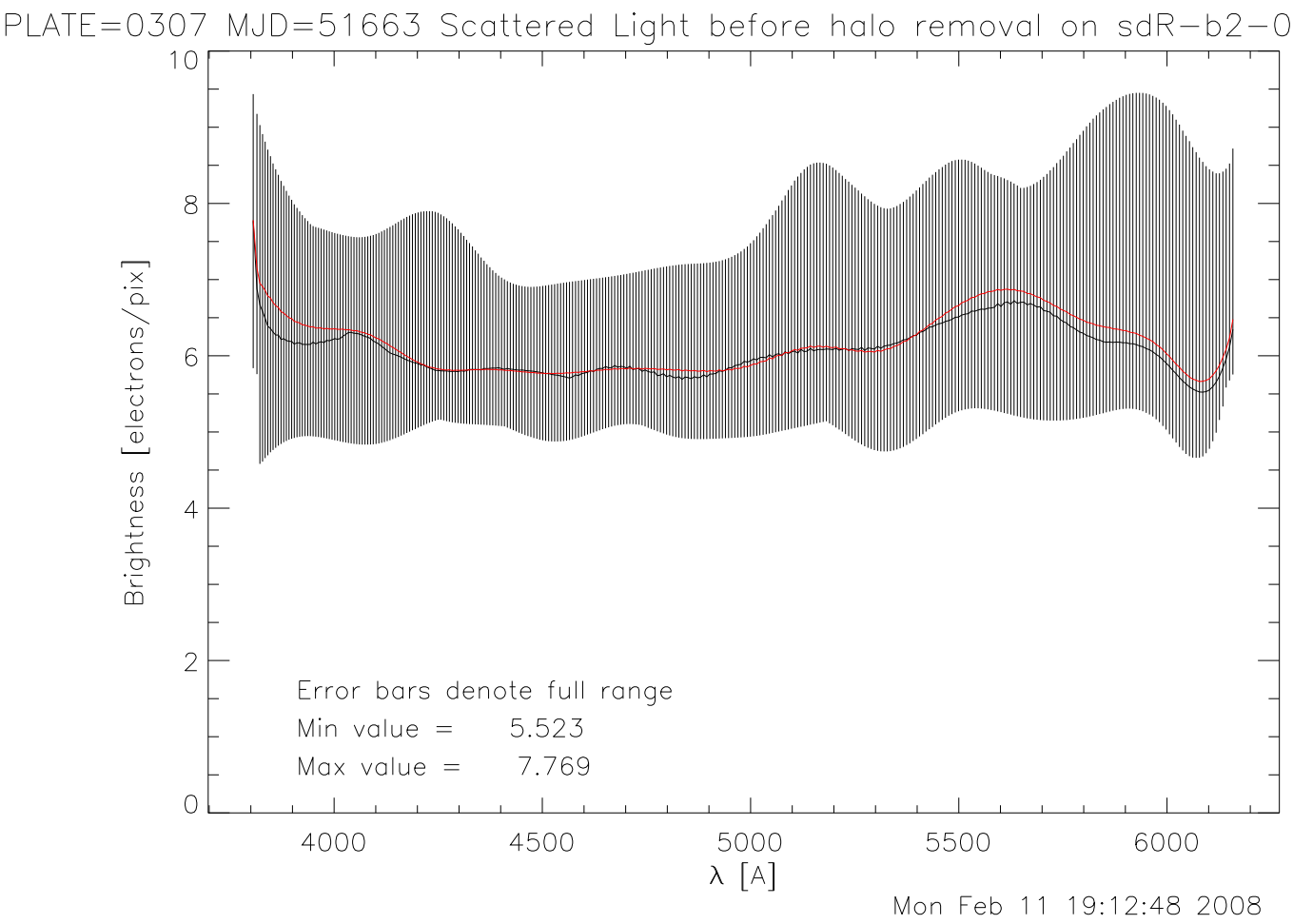
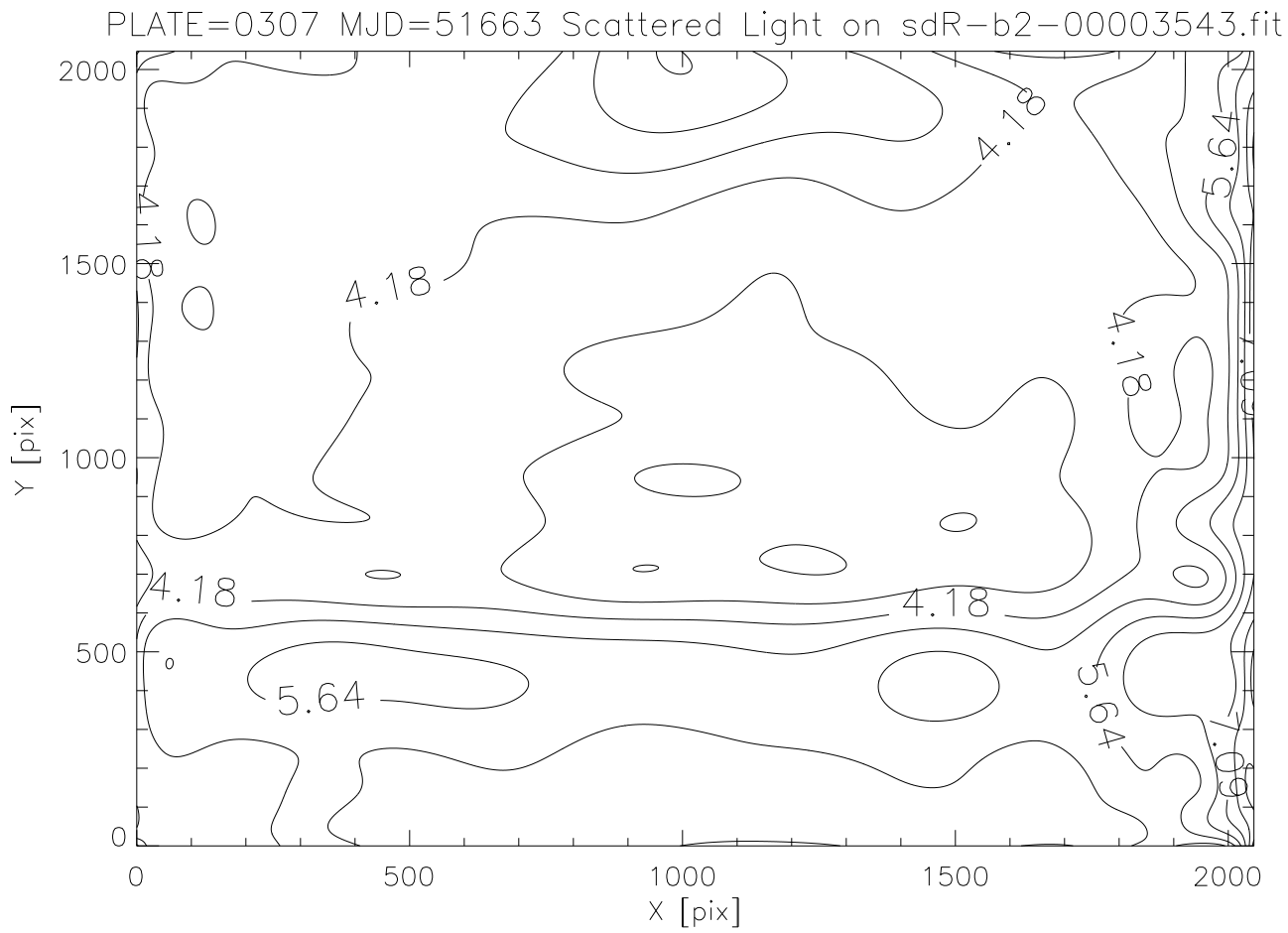
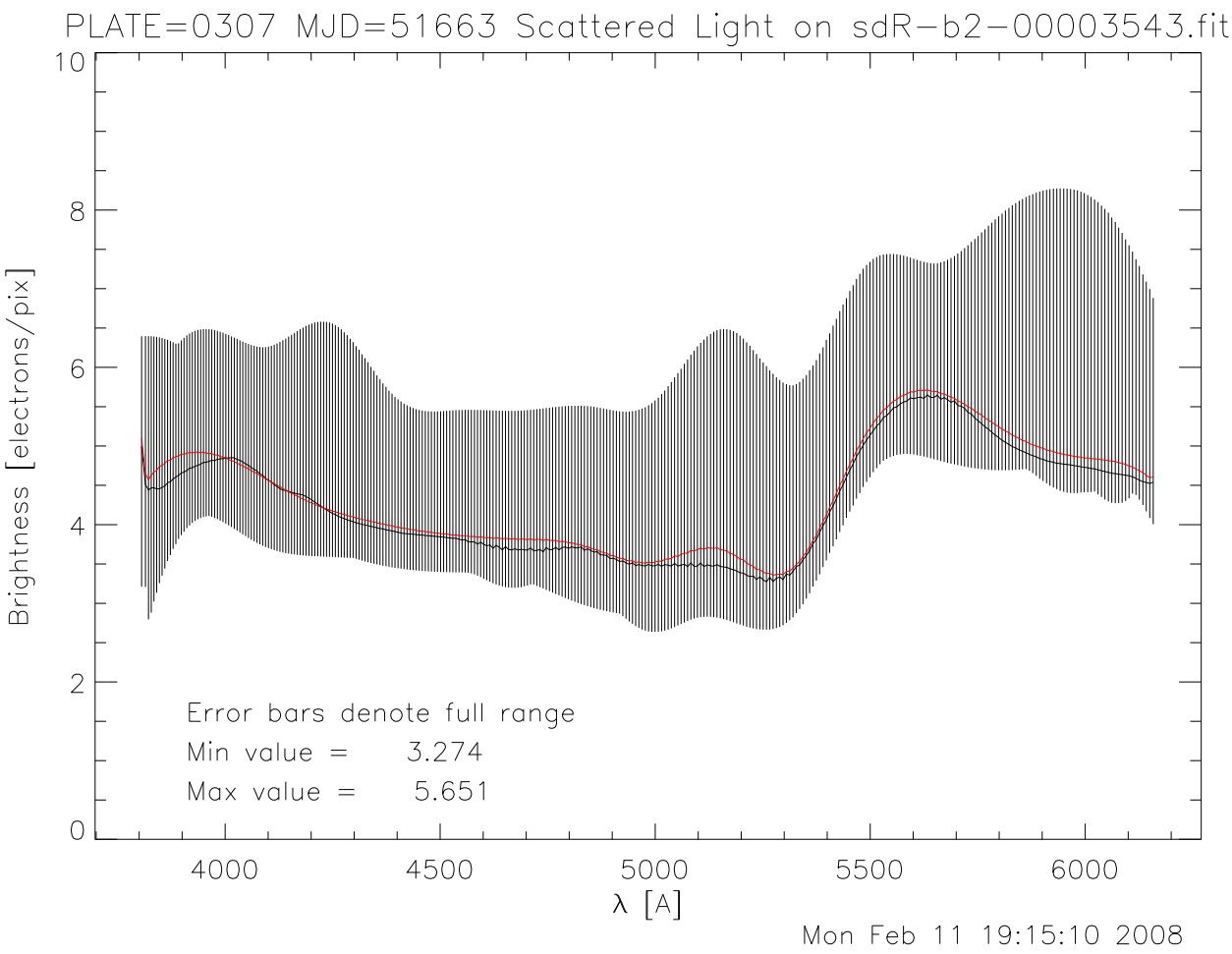
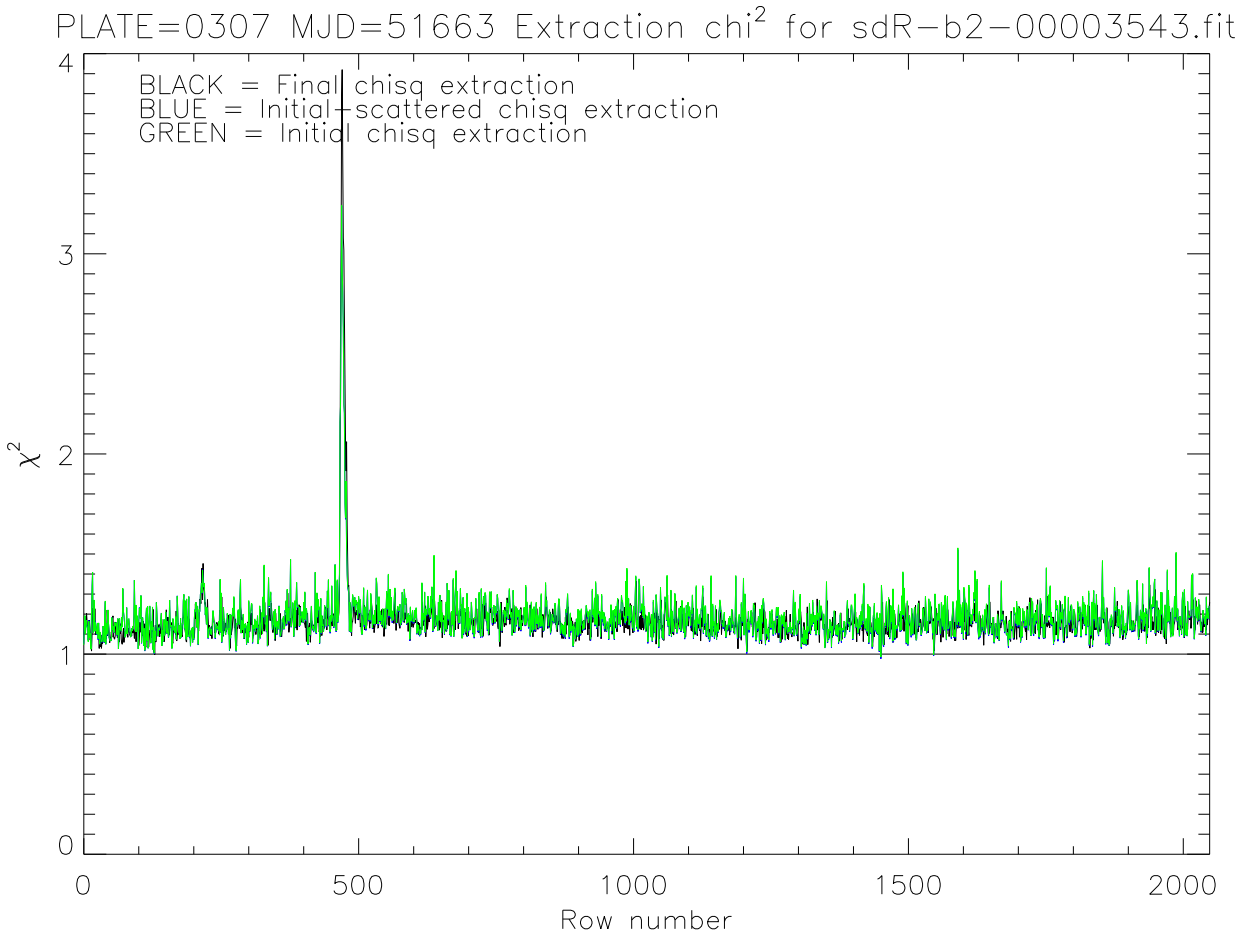
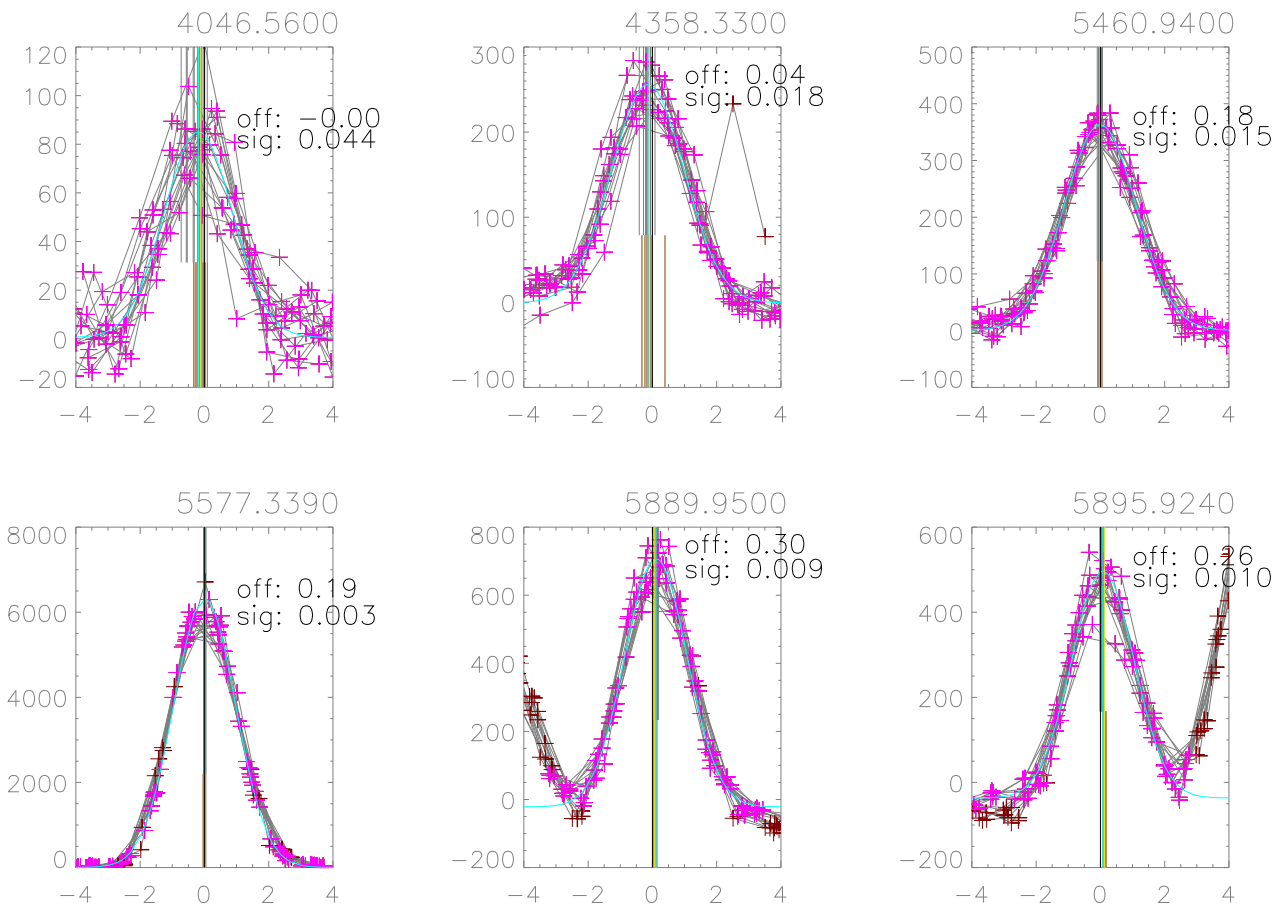

PLATE=0307 MJD=51663 Scattered Light before halo removal on sdR-b2-00003543.f
7.45
6.18
6.18
6.18
6.18
6.18
6.18
6.18
6.18
7.45
6.18
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

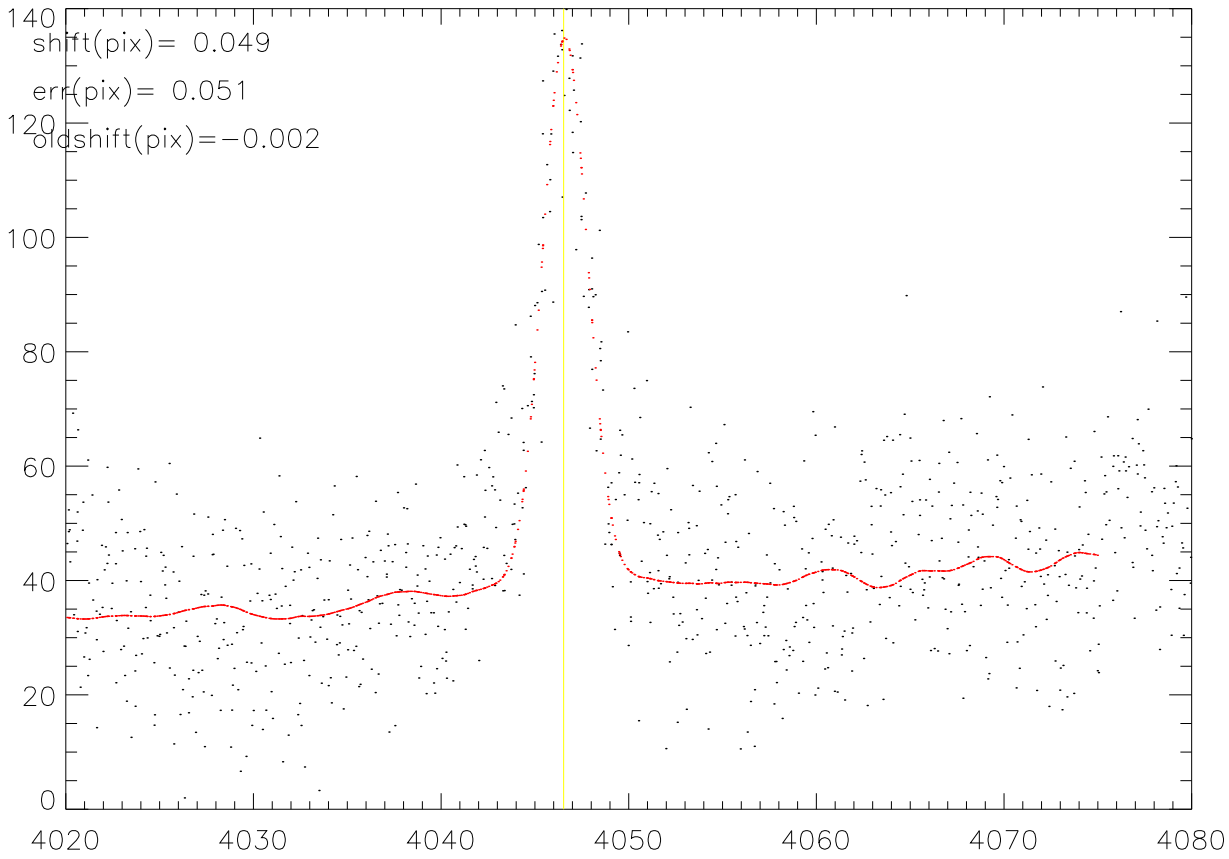

PLATE=0307 MJD=51663 Scattered Light before halo removal on sdR-b2-00003543.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.523
Max value = 7.769
Mon Feb 11 19:12:48 2008

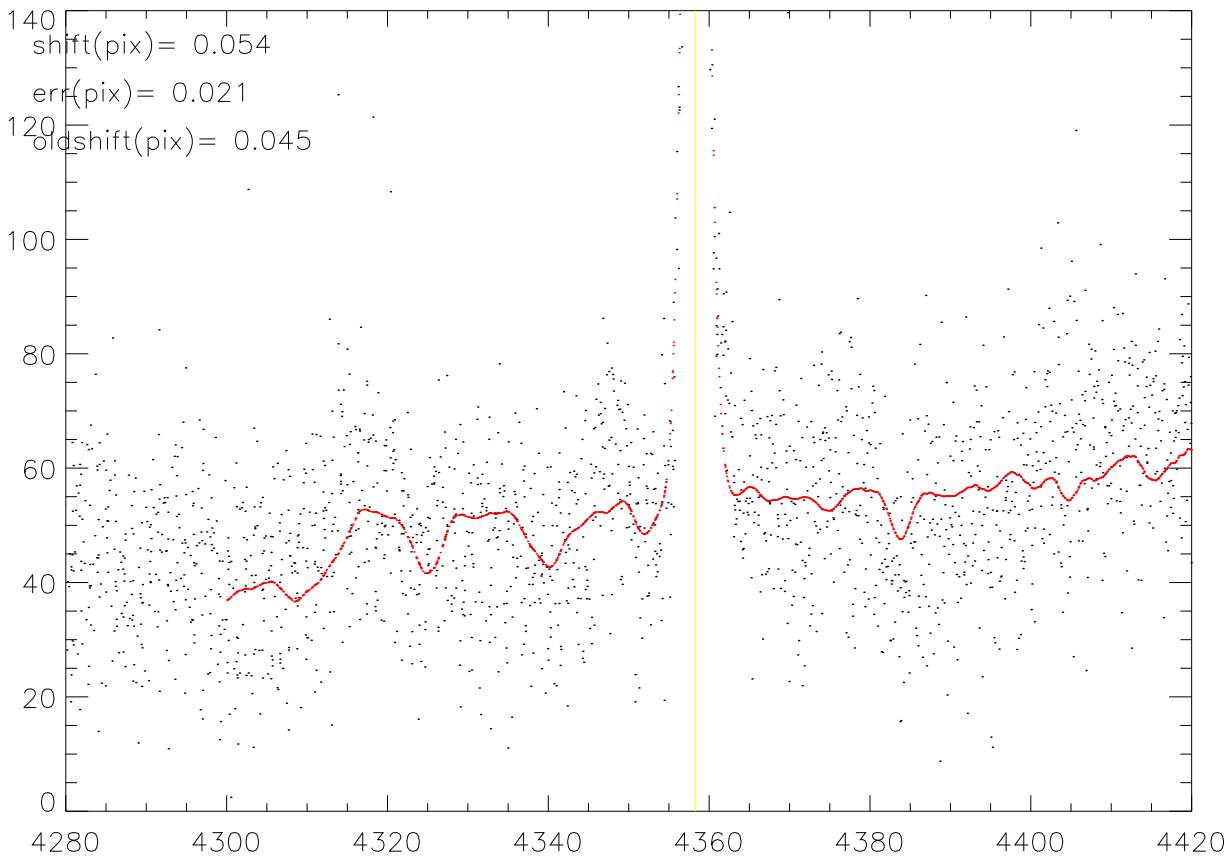

PLATE=0307 MJD=51663 Scattered Light on sdR-b2-00003543.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
4.18
5.64

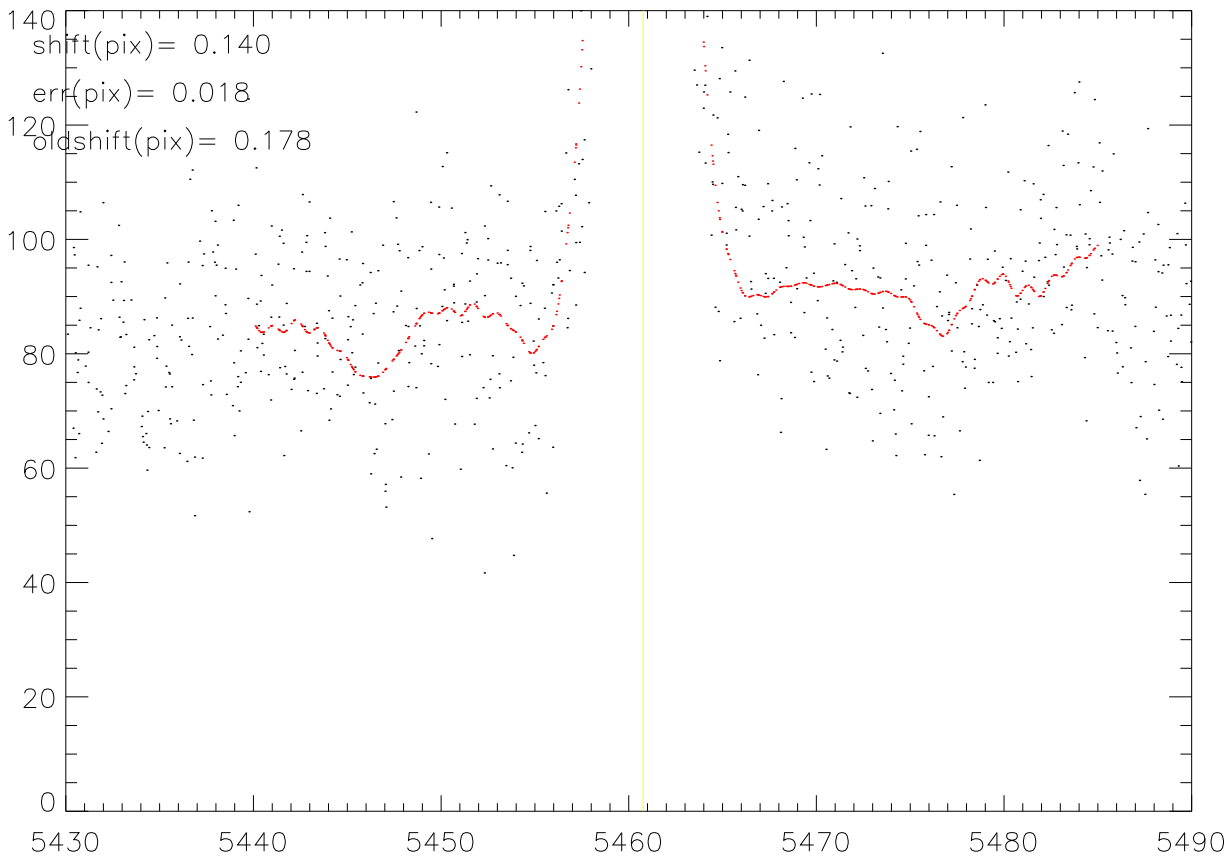

PLATE=0307 MJD=51663 Scattered Light on sdR-b2-00003543.fit
Brightness [electrons/pix]
10
8
6
4
2
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 3.274
Max value = 5.651
Mon Feb 11 19:15:10 2008

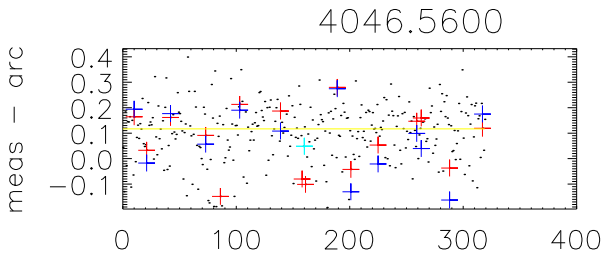

PLATE=0307 MJD=51663 Extraction chi^2 for sdR-b2-00003543.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

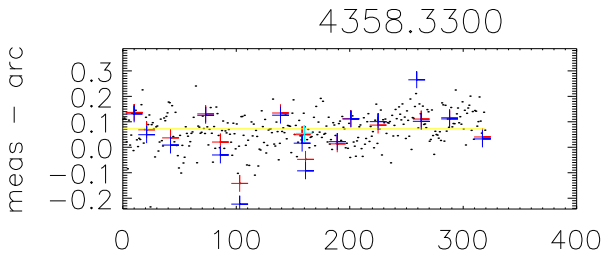

4046.5600
off: −0.00
sig: 0.044
4358.3300
off: 0.04
sig: 0.018
5460.9400
off: 0.18
sig: 0.015
5577.3390
off: 0.19
sig: 0.003
5889.9500
off: 0.30
sig: 0.009
5895.9240
off: 0.26
sig: 0.010

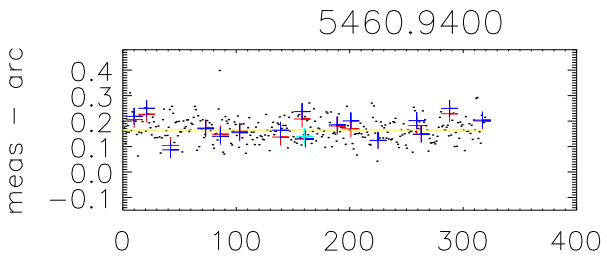

shift(pix)= 0.049
err(pix)= 0.051
oldshift(pix)=-0.002
140
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

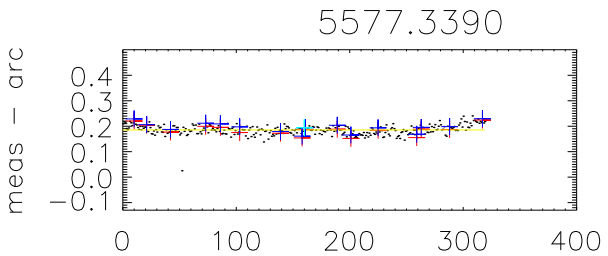

shift(pix)= 0.054
err(pix)= 0.021
oldshift(pix)= 0.045
140
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

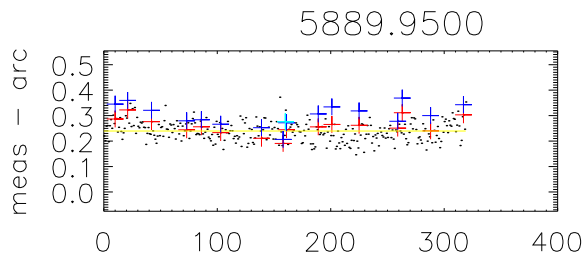

shift(pix)= 0.140
err(pix)= 0.018
oldshift(pix)= 0.178
140
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

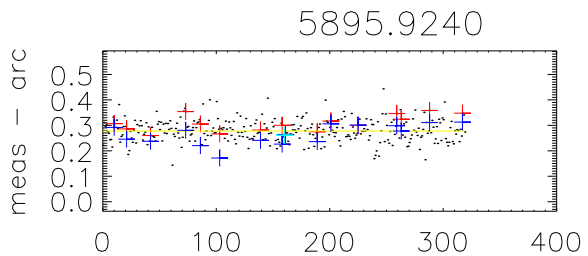

4046.5600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

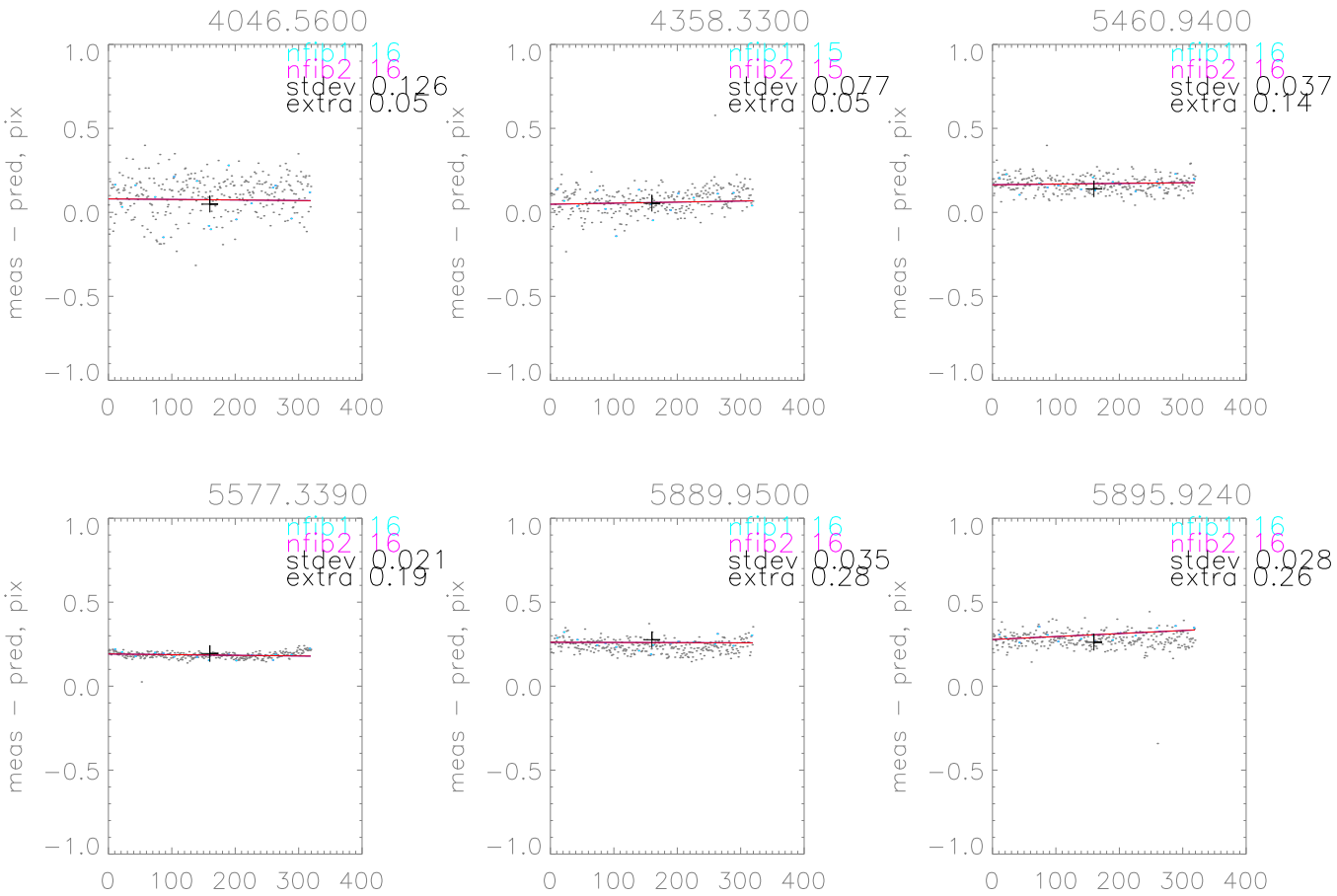

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

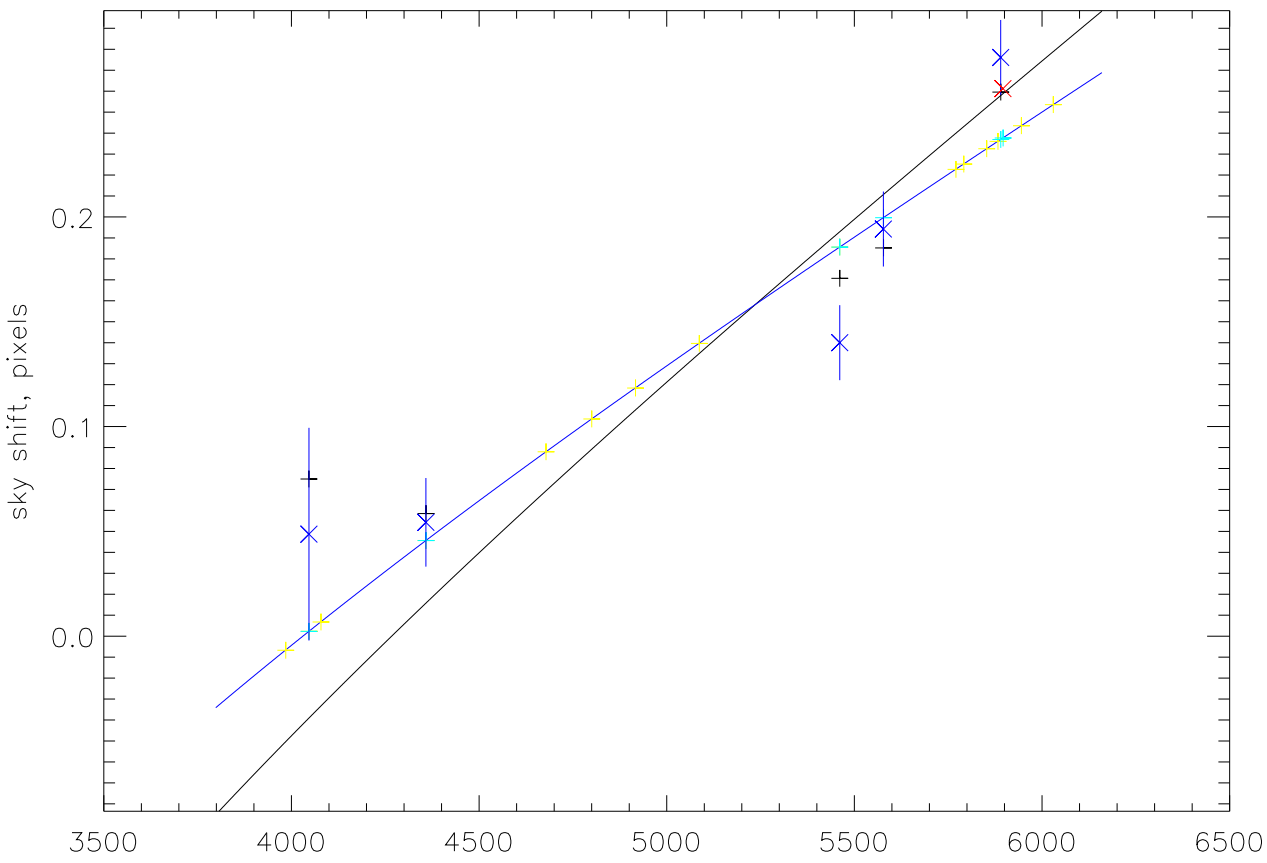

5460.9400
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

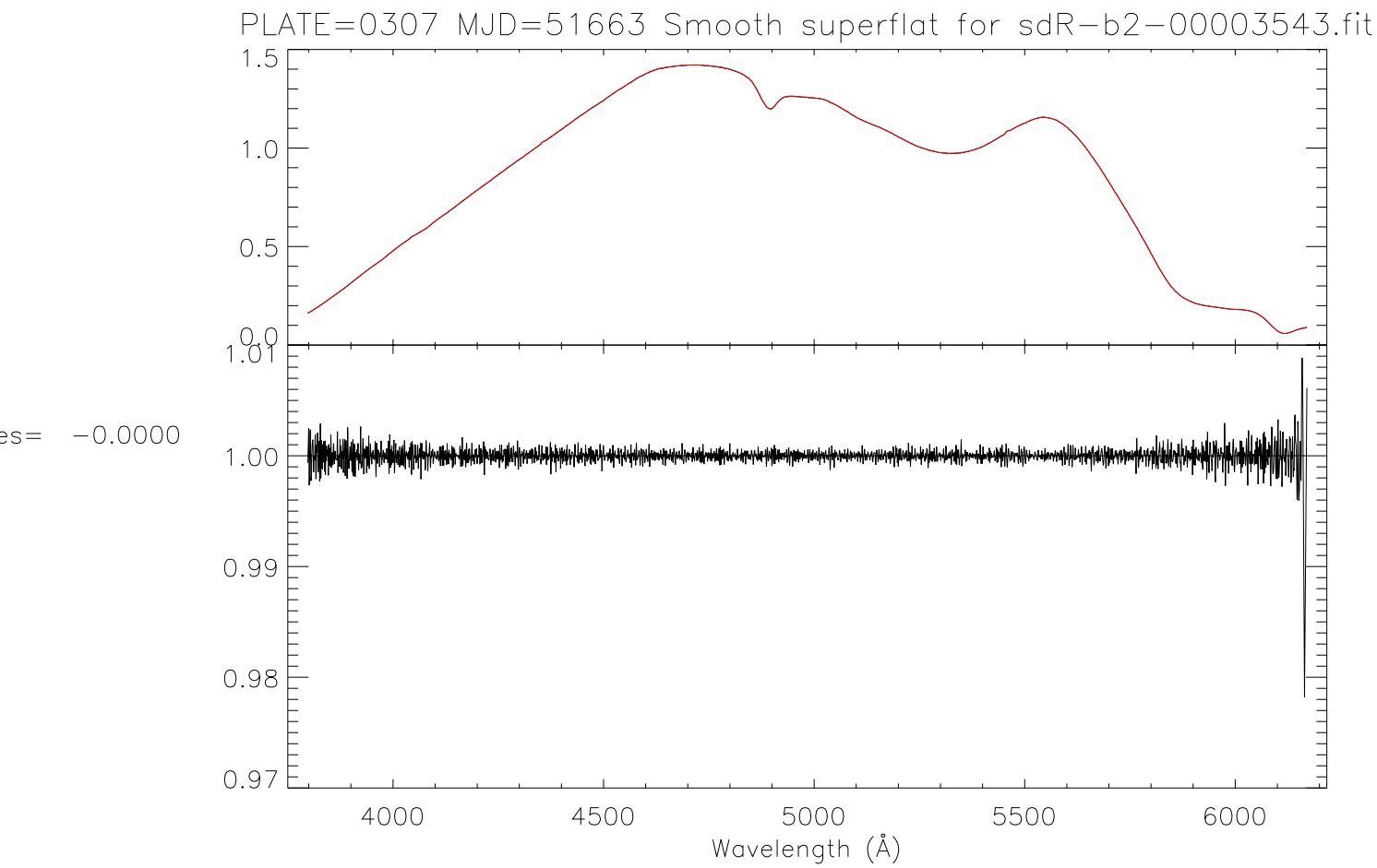

5577.3390
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

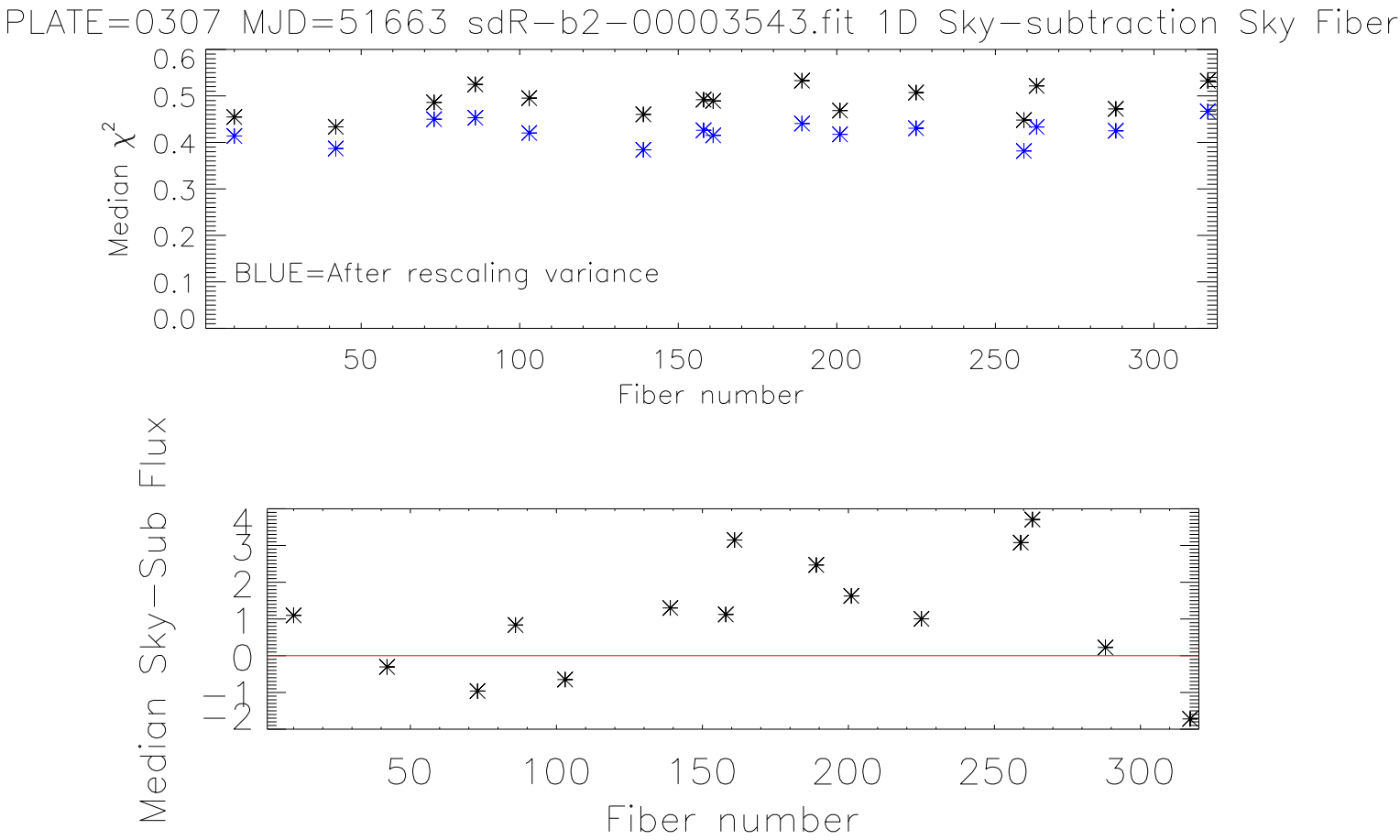

5895.9240
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

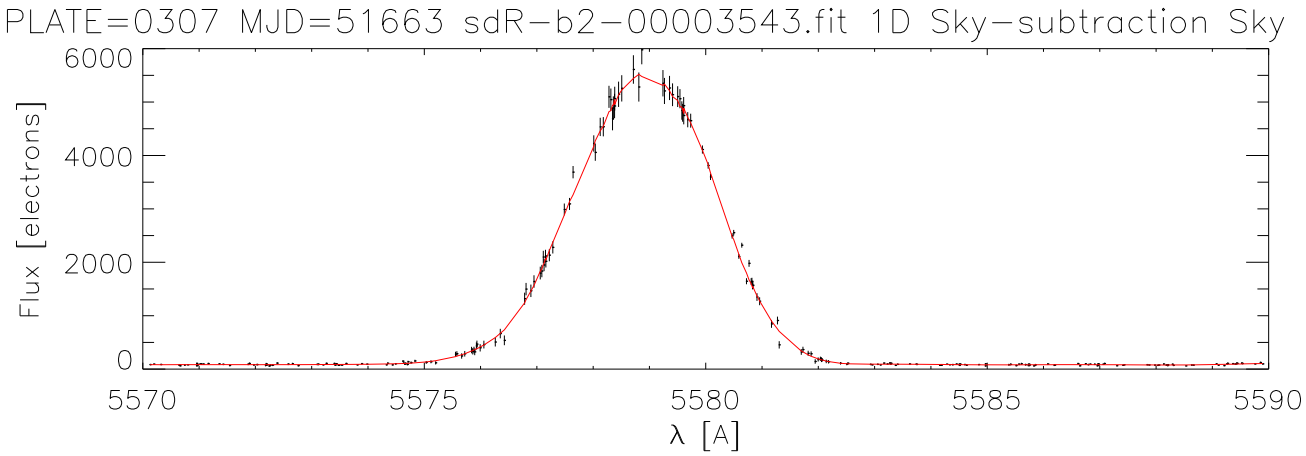

4046.5600
nfib1 16
nfib2 16
stdev 0.126
extra 0.05
4358.3300
nfib1 15
nfib2 15
stdev 0.077
extra 0.05
5460.9400
nfib1 16
nfib2 16
stdev 0.037
extra 0.14
5577.3390
nfib1 16
nfib2 16
stdev 0.021
extra 0.19
5889.9500
nfib1 16
nfib2 16
stdev 0.035
extra 0.28
5895.9240
nfib1 16
nfib2 16
stdev 0.028
extra 0.26
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

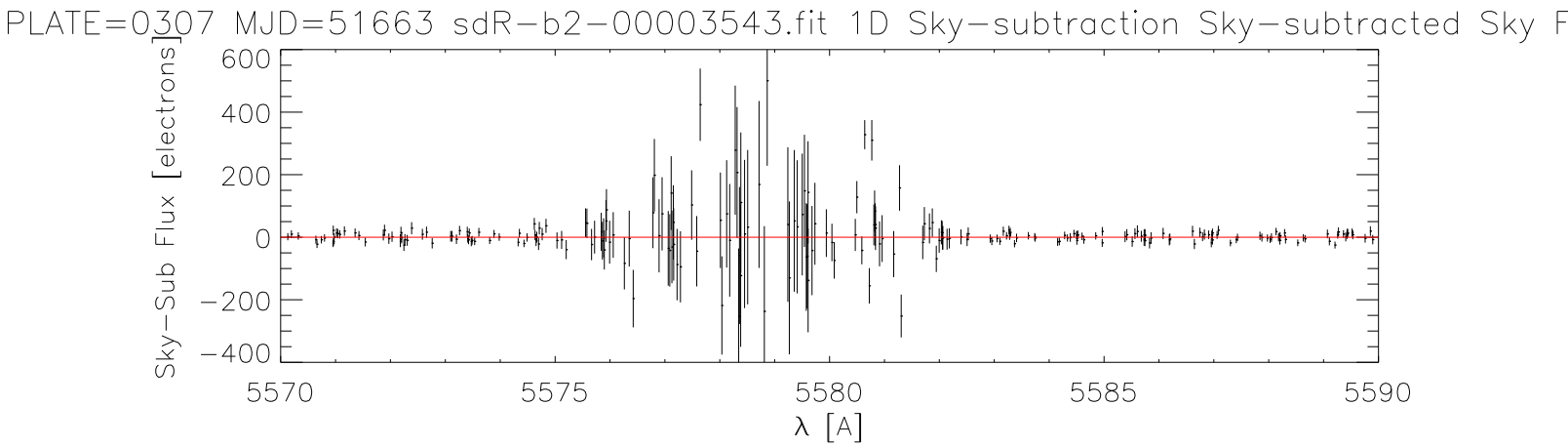

sky shift, pixels
0.2
0.1
0.0
3500
4000
4500
5000
5500
6000
6500

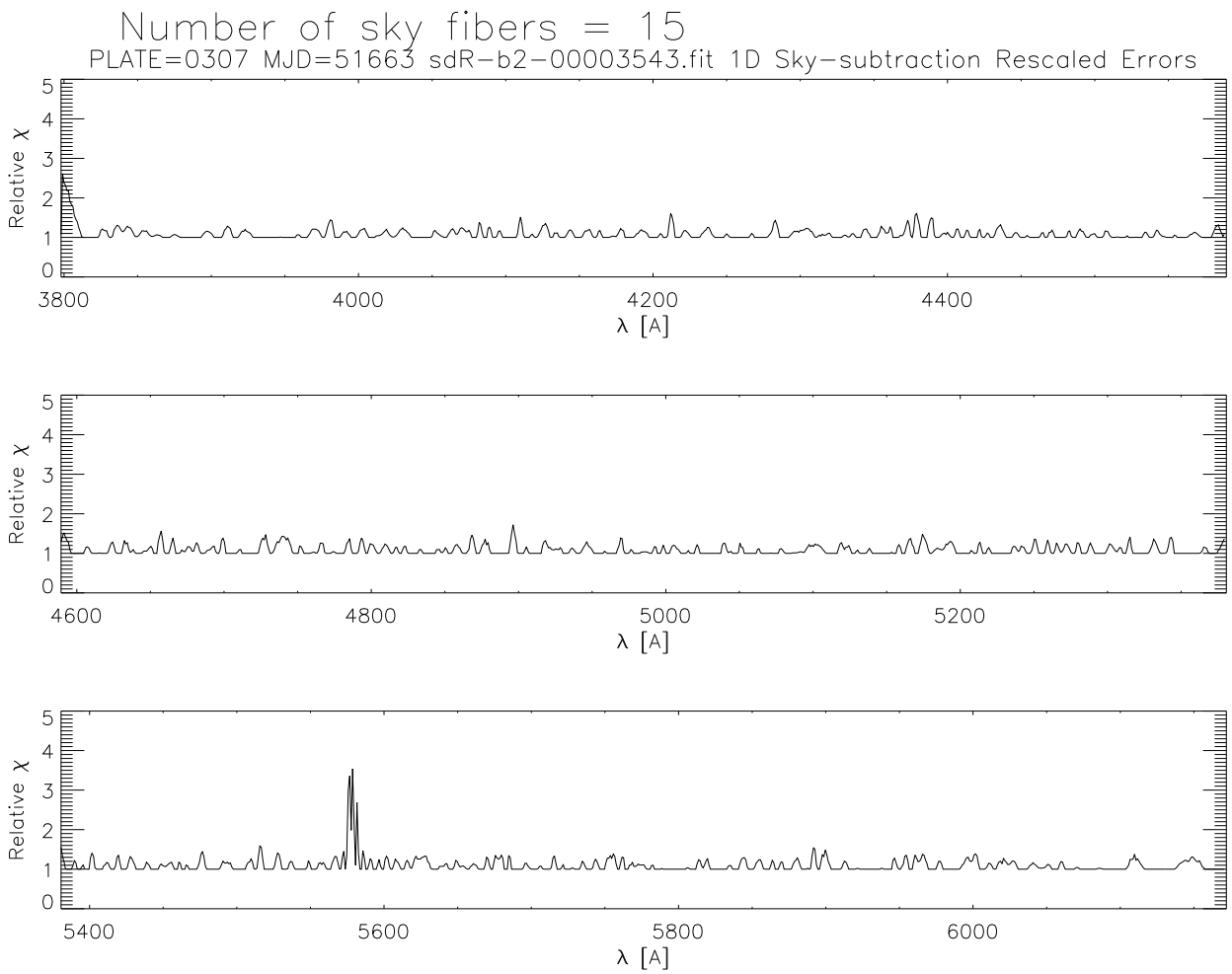

PLATE=0307 MJD=51663 Smooth superflat for sdR-b2-00003543.fit
1.5
1.0
0.5
0.0
1.01
1.00
0.99
0.98
0.97
4000
4500
5000
5500
6000
Wavelength (Å)

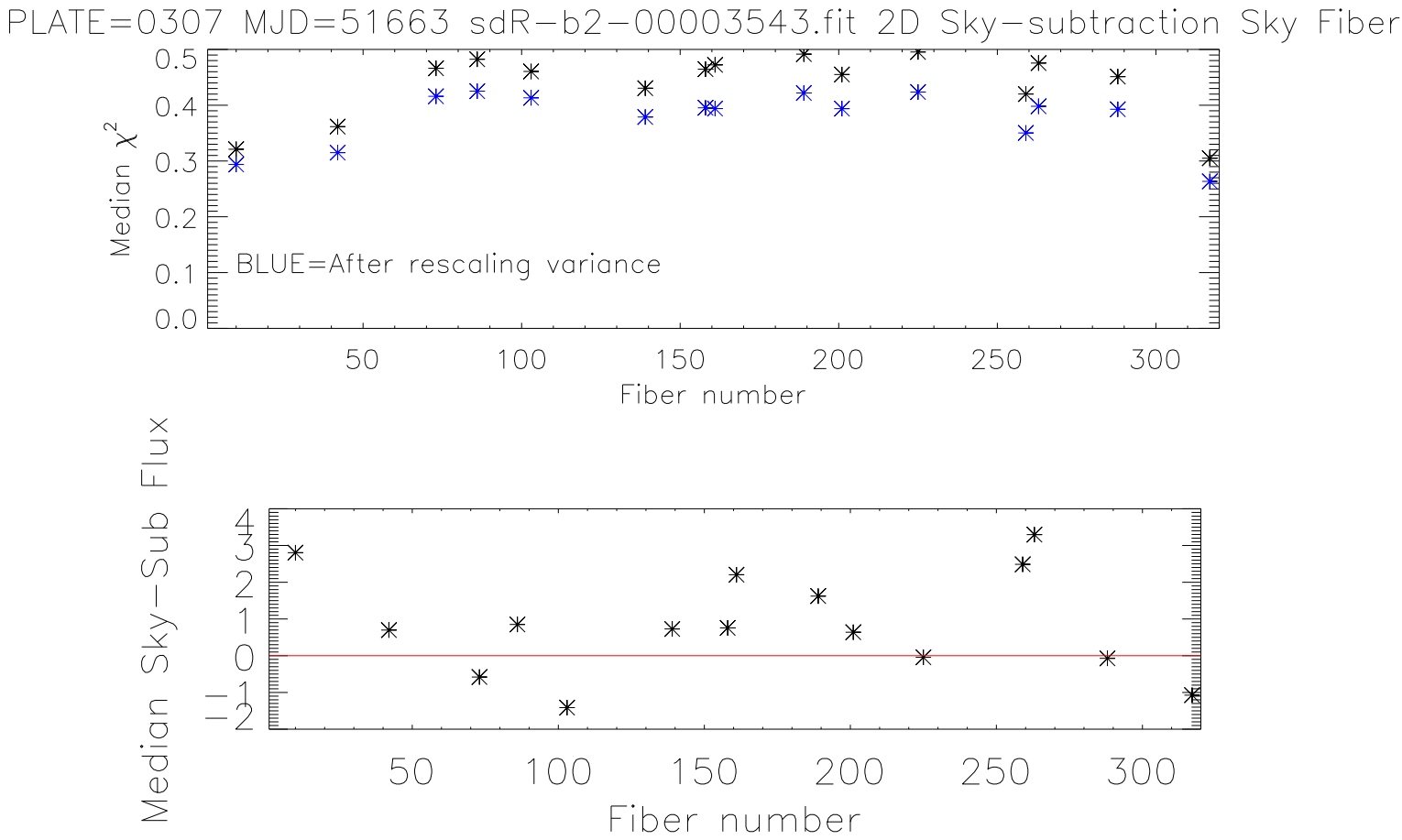
es= −0.0000

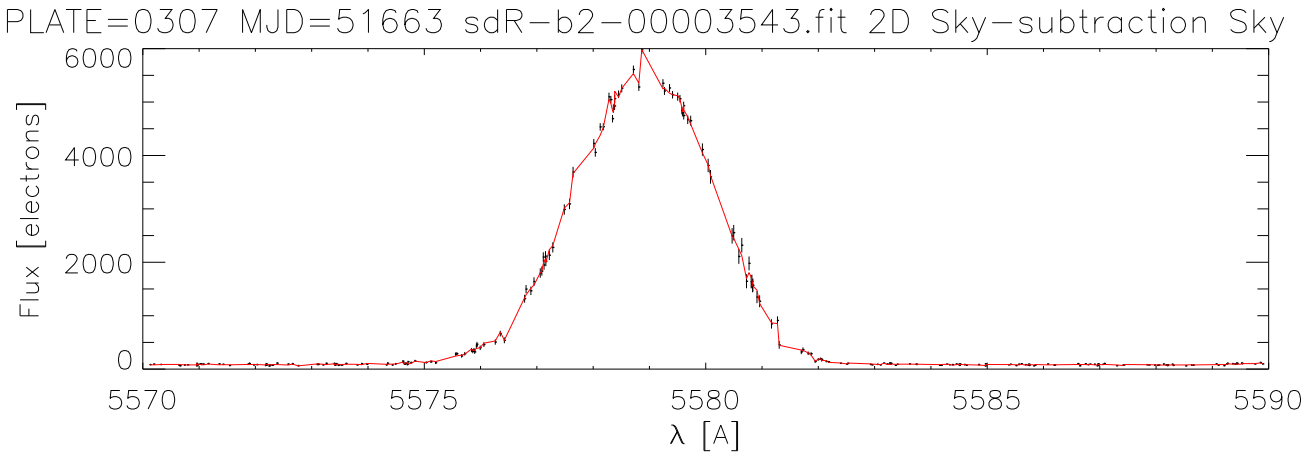

PLATE=0307 MJD=51663 sdR-b2-00003543.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

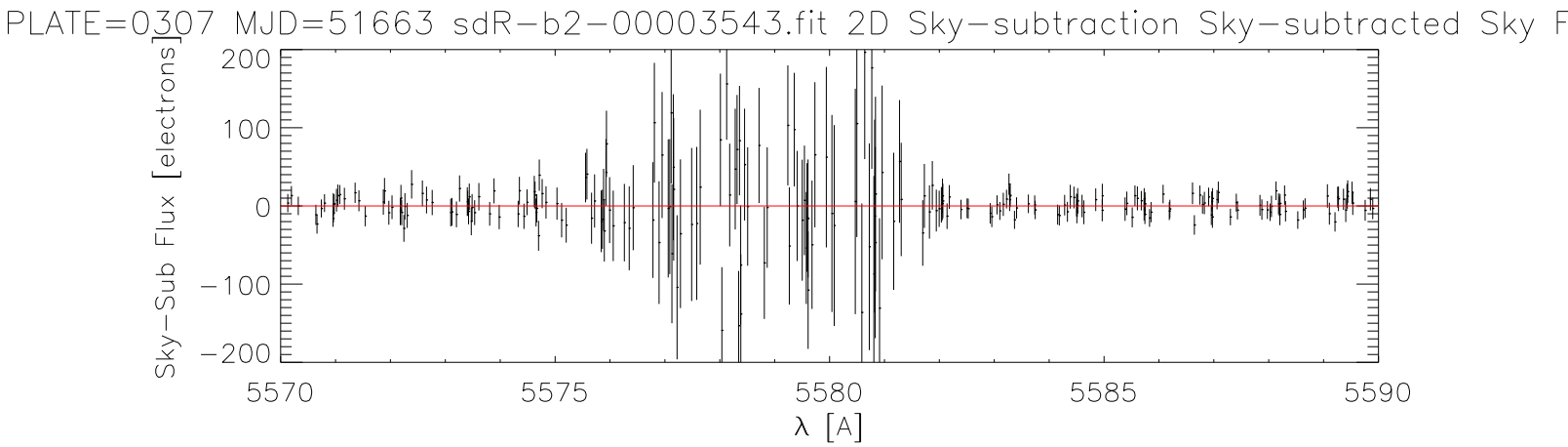

PLATE=0307 MJD=51663 sdR-b2-00003543.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

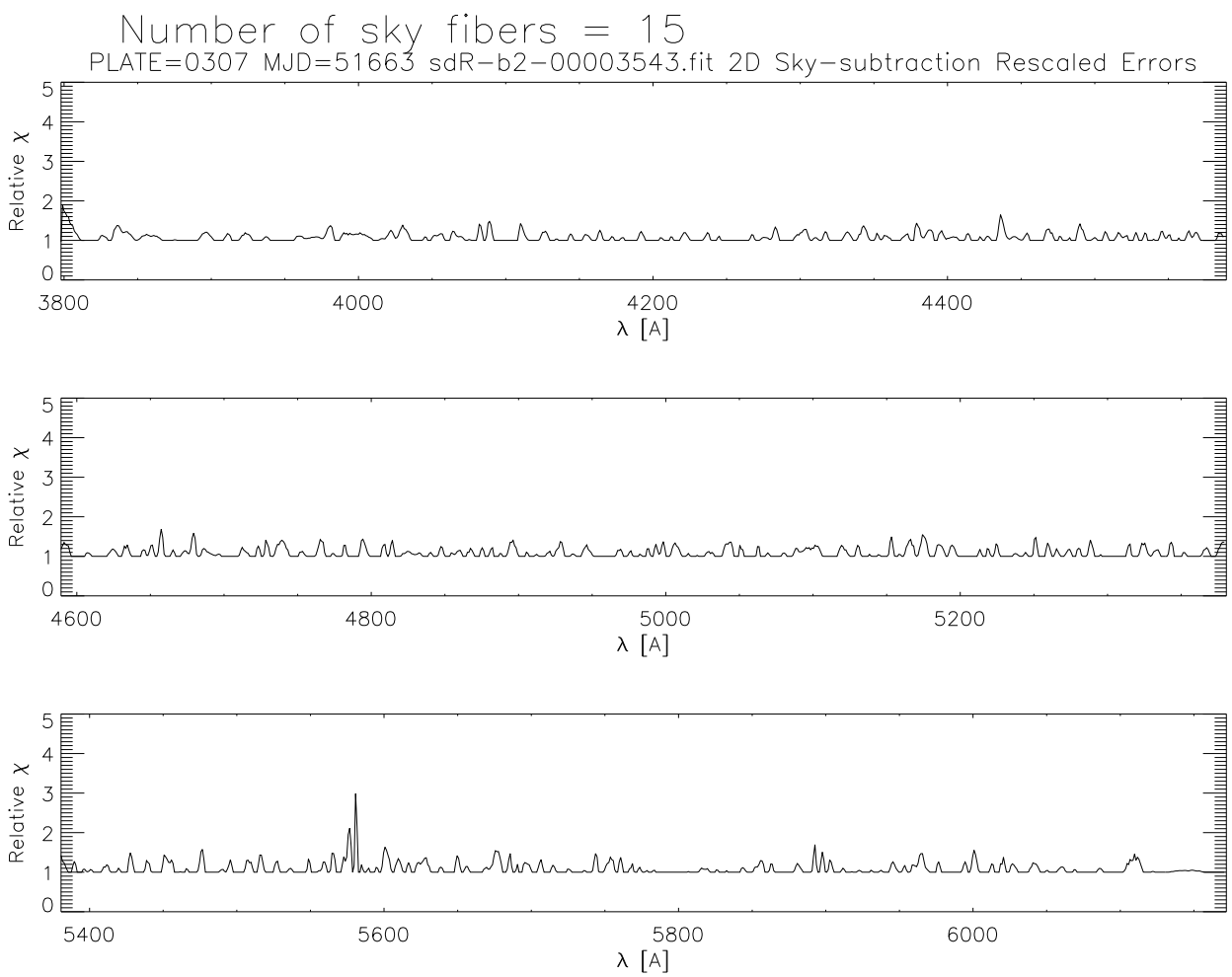

PLATE=0307 MJD=51663 sdR-b2-00003543.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
−200
−400
5570
5575
5580
5585
5590
λ [A]

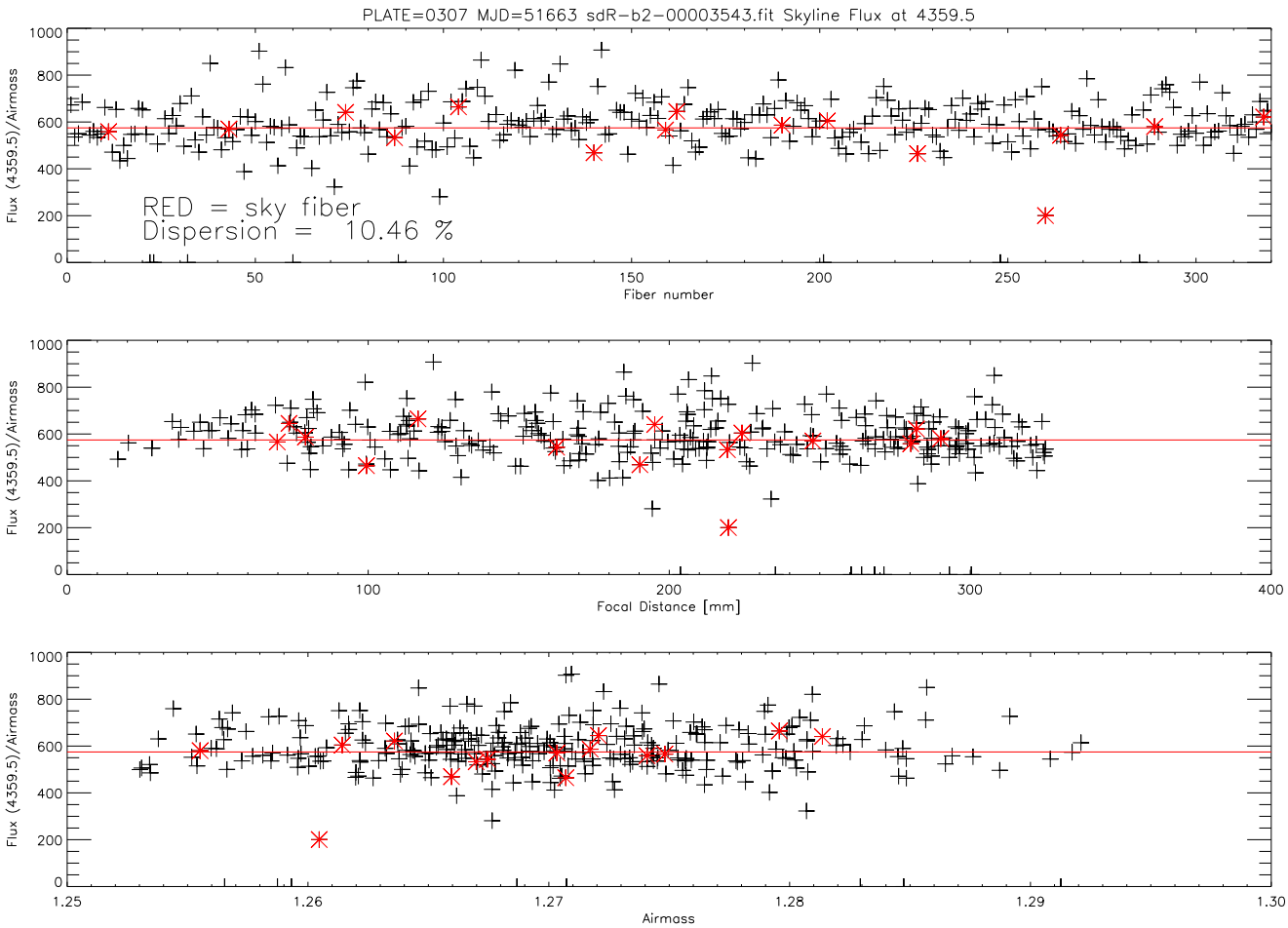

Number of sky fibers = 15
PLATE=0307 MJD=51663 sdR-b2-00003543.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

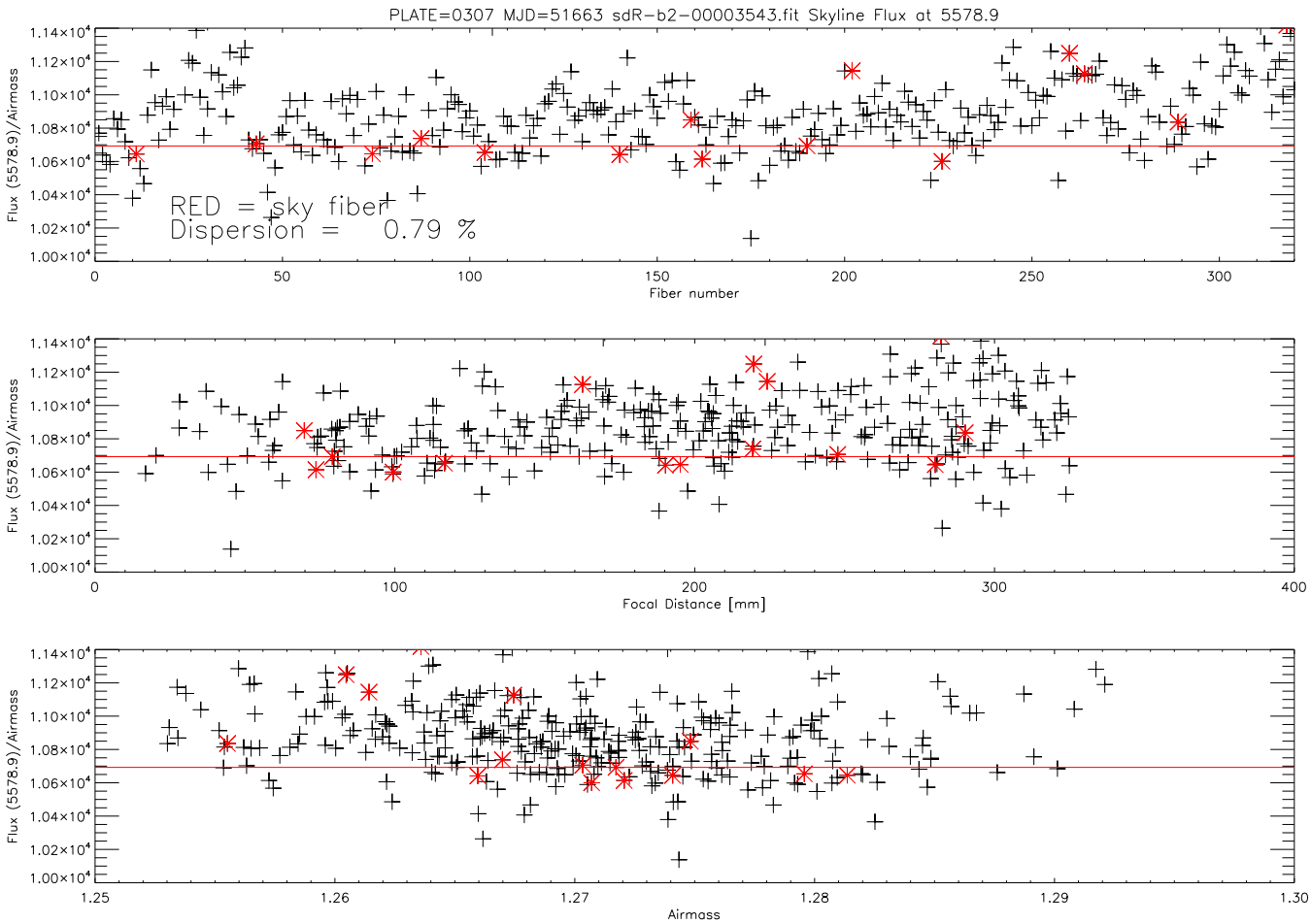

PLATE=0307 MJD=51663 sdR-b2-00003543.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

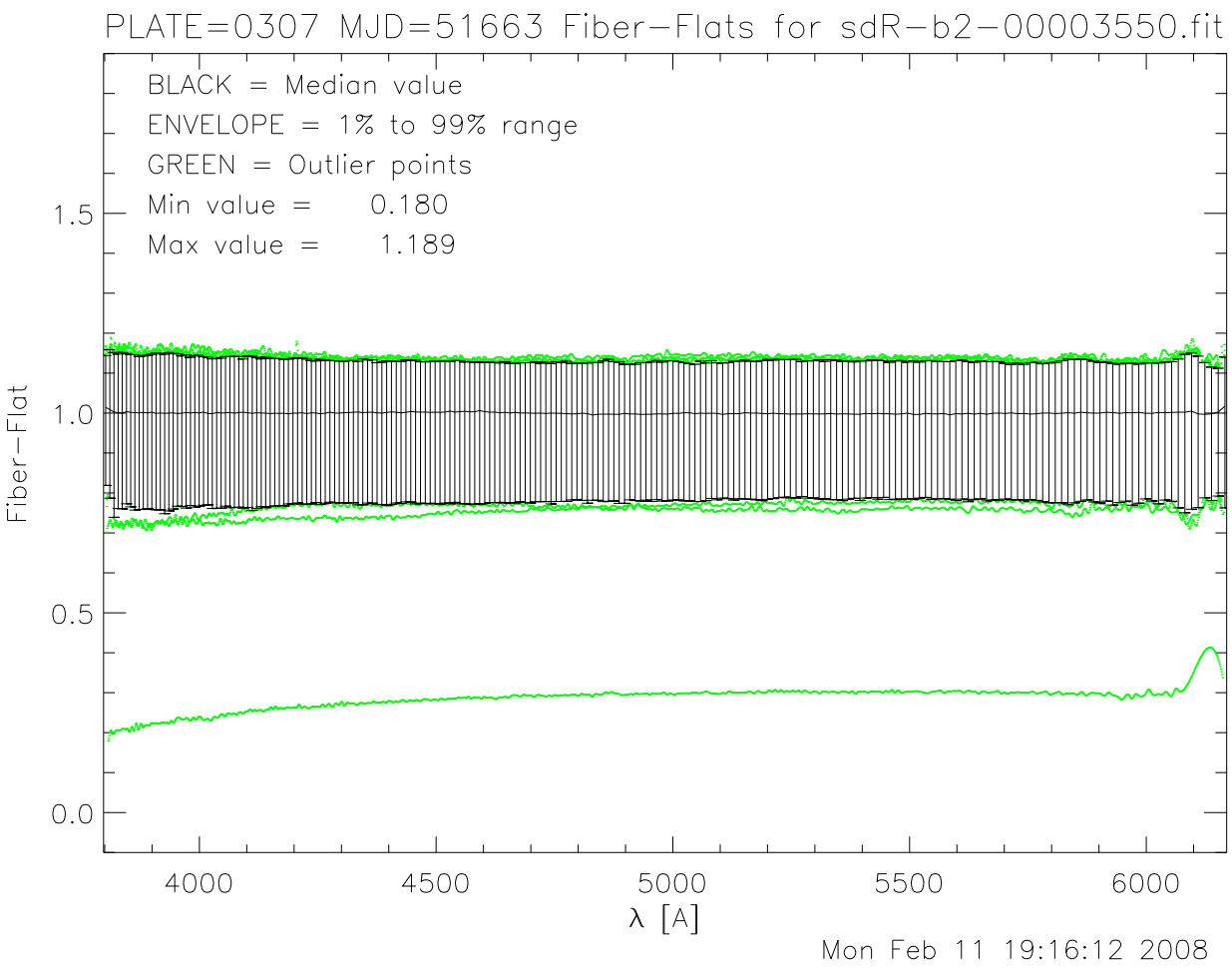

PLATE=0307 MJD=51663 sdR-b2-00003543.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

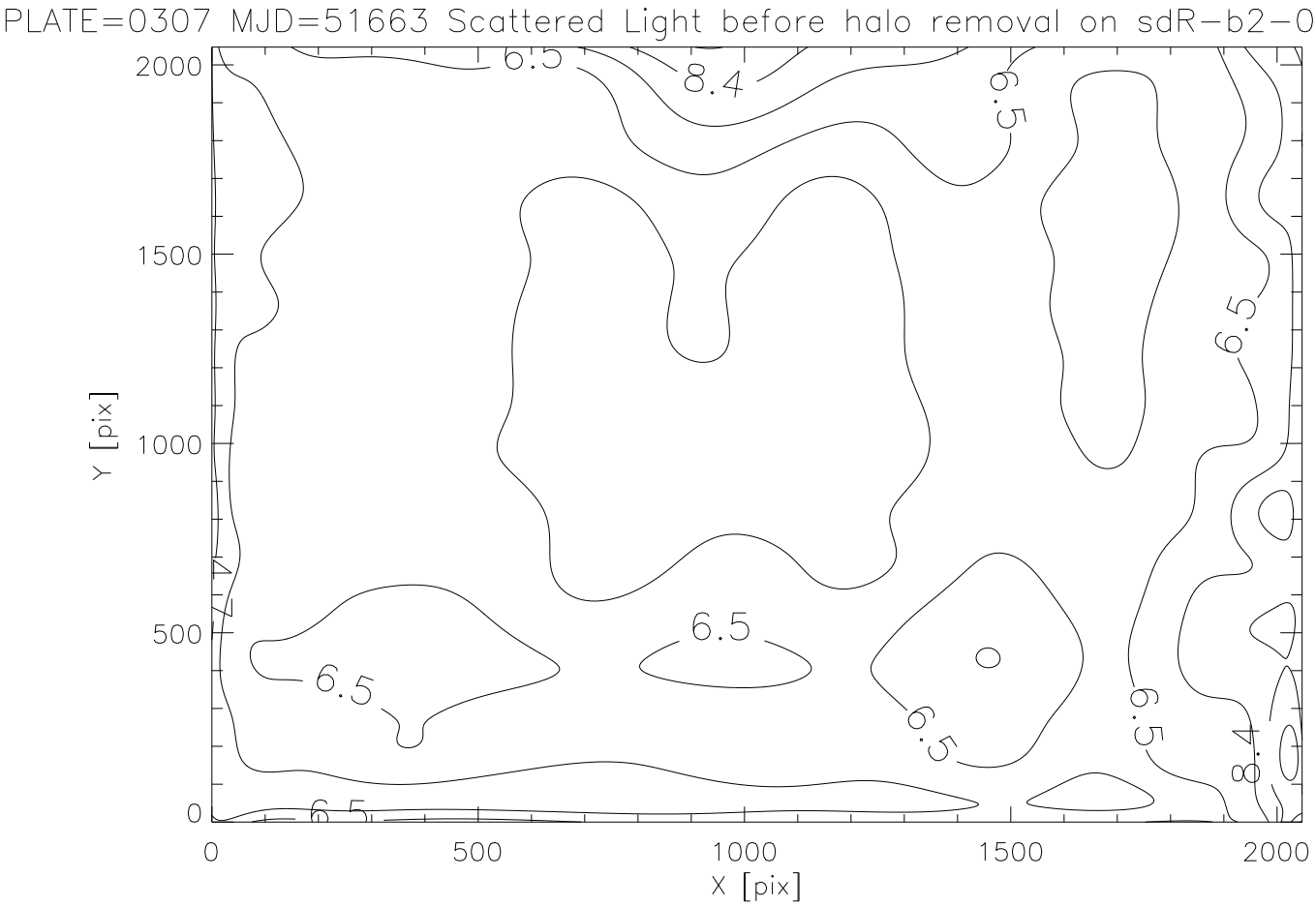

PLATE=0307 MJD=51663 sdR-b2-00003543.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

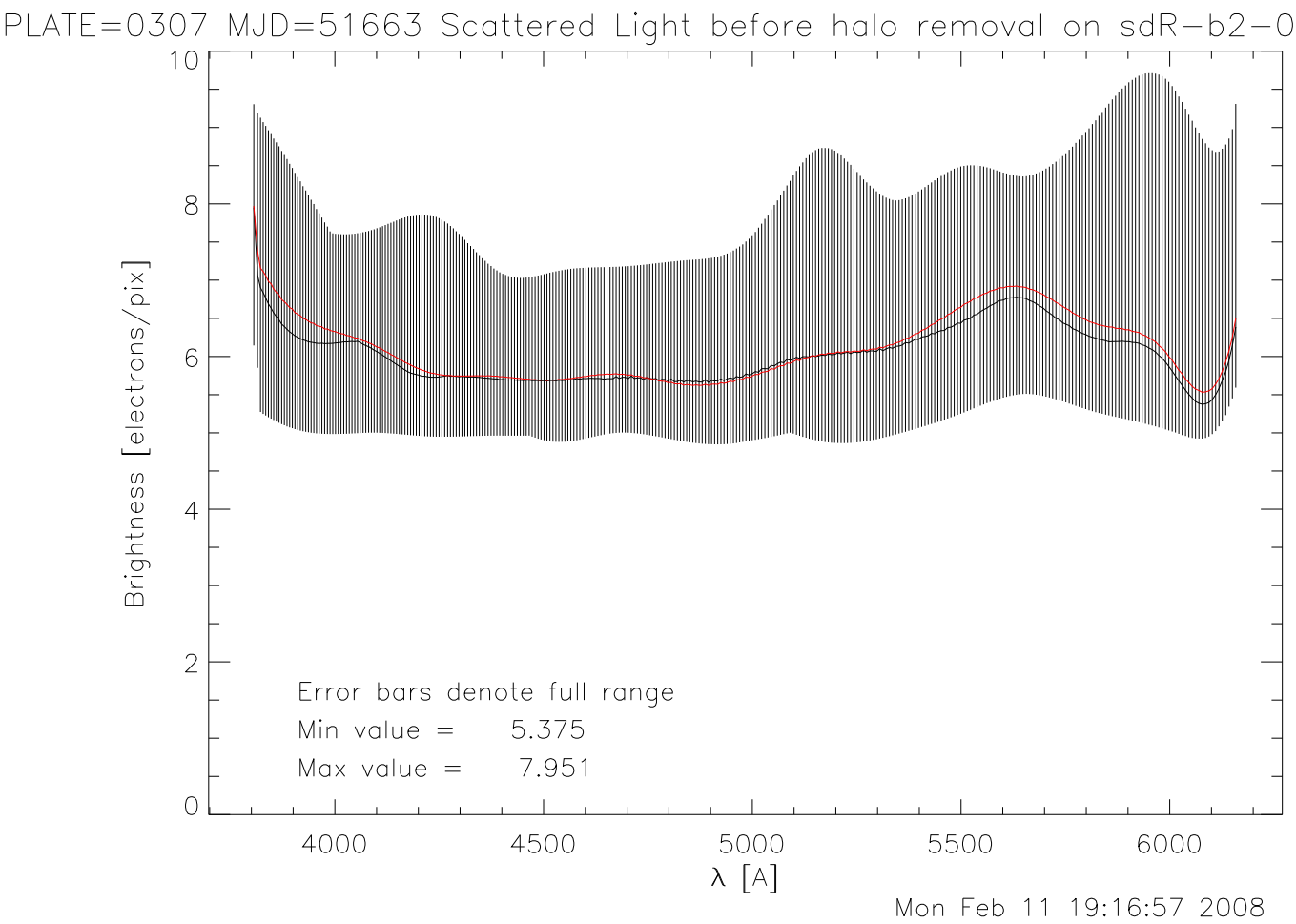

Number of sky fibers = 15
PLATE=0307 MJD=51663 sdR-b2-00003543.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

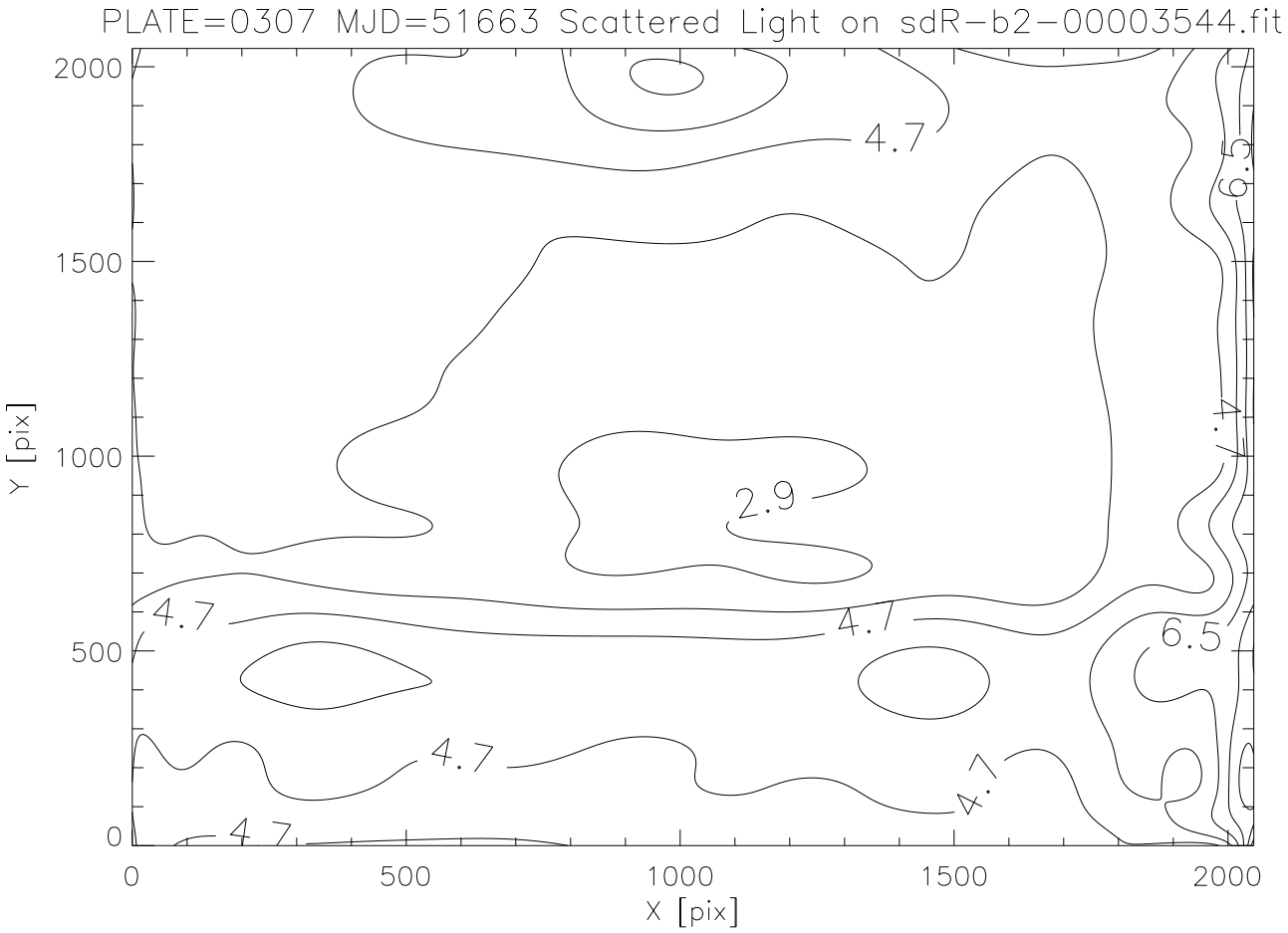

PLATE=0307 MJD=51663 sdR-b2-00003543.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 10.46 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

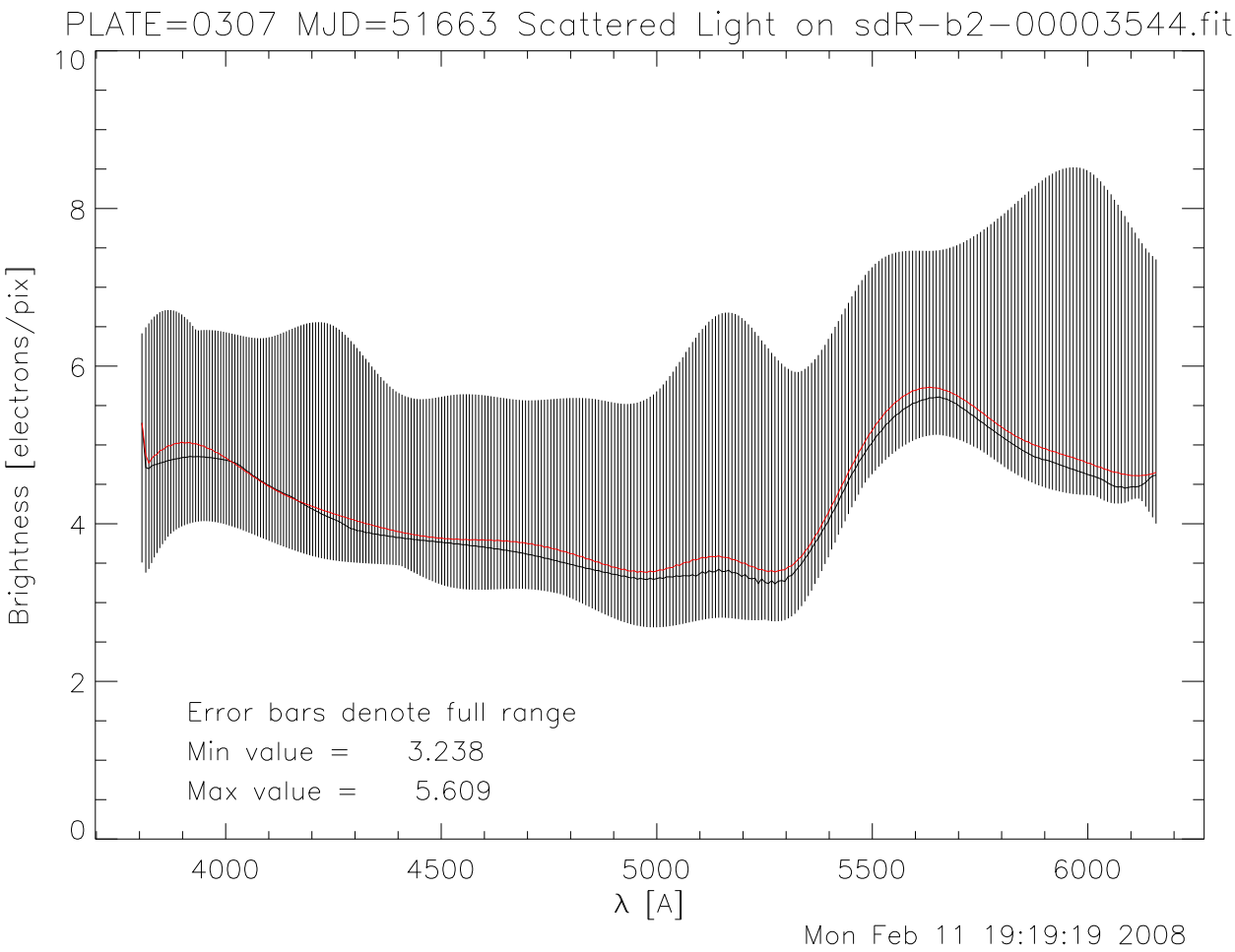

PLATE=0307 MJD=51663 sdR-b2-00003543.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 0.79 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

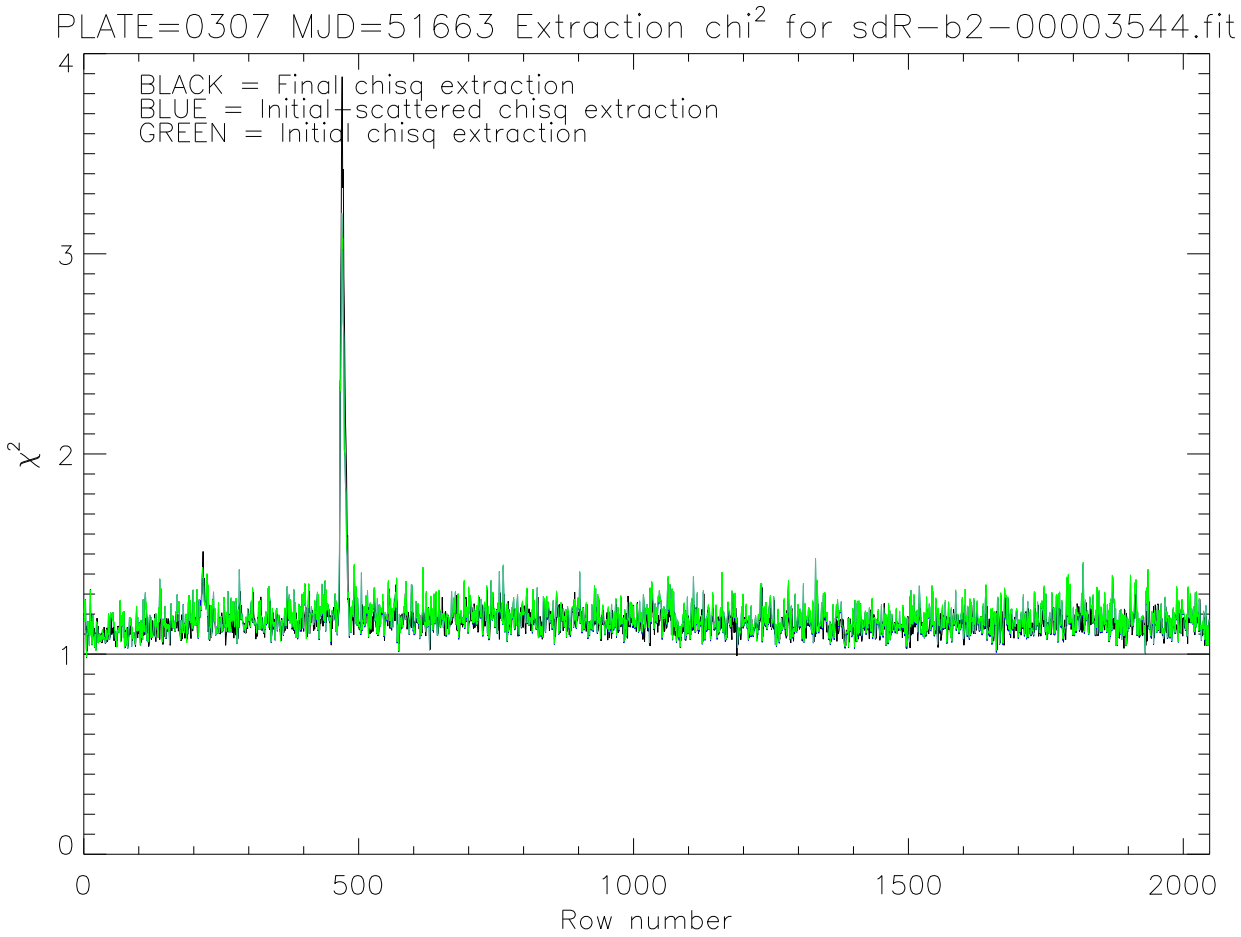

PLATE=0307 MJD=51663 Fiber-Flats for sdR-b2-00003550.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.180
Max value = 1.189
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 19:16:12 2008

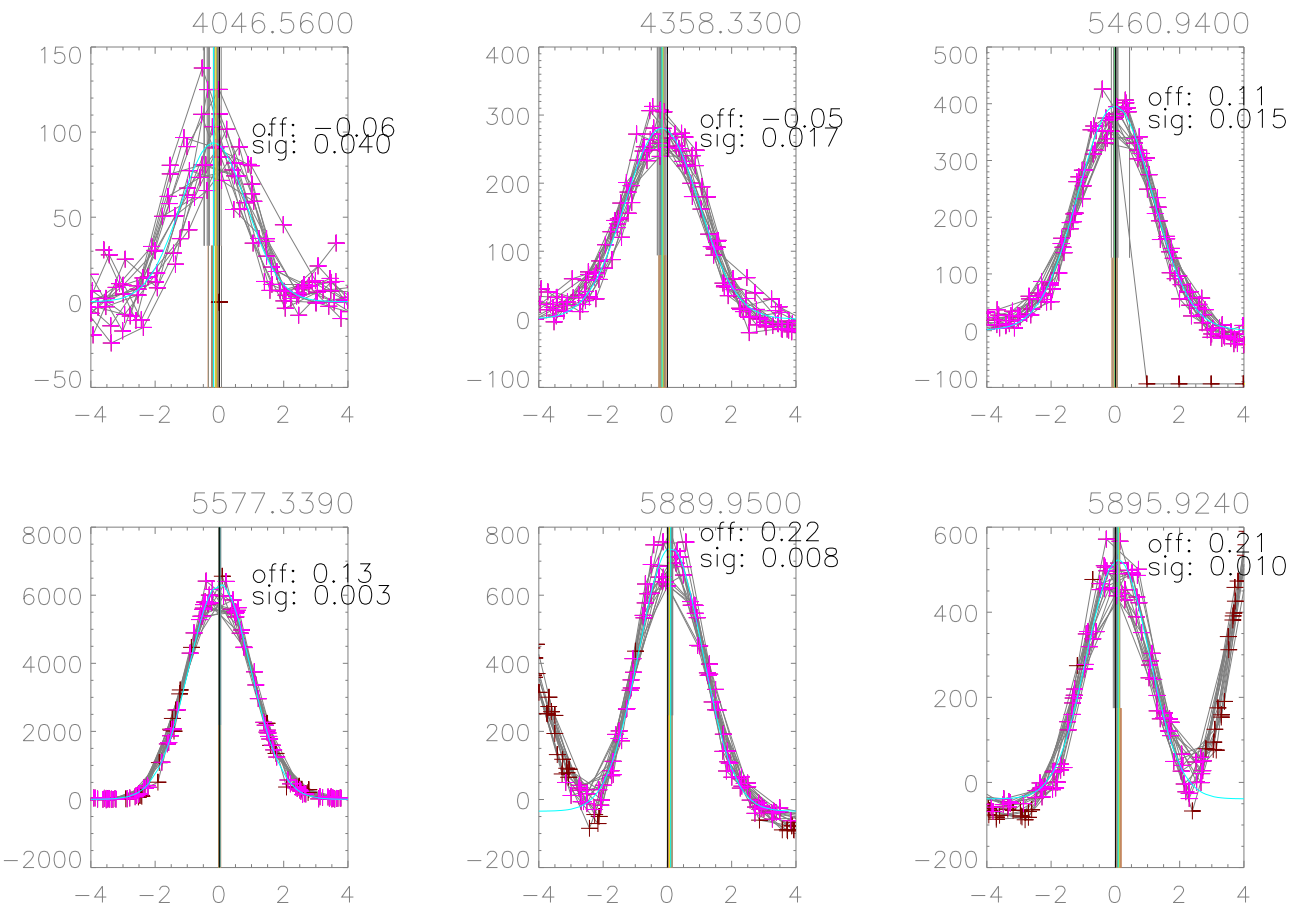

PLATE=0307 MJD=51663 Scattered Light before halo removal on sdR-b2-00003544.f
6.5
8.4
6.5
6.5
6.5
6.5
6.5
6.5
6.5
8.4
8.4
0
0
500
1000
1500
2000
Y [pix]
X [pix]

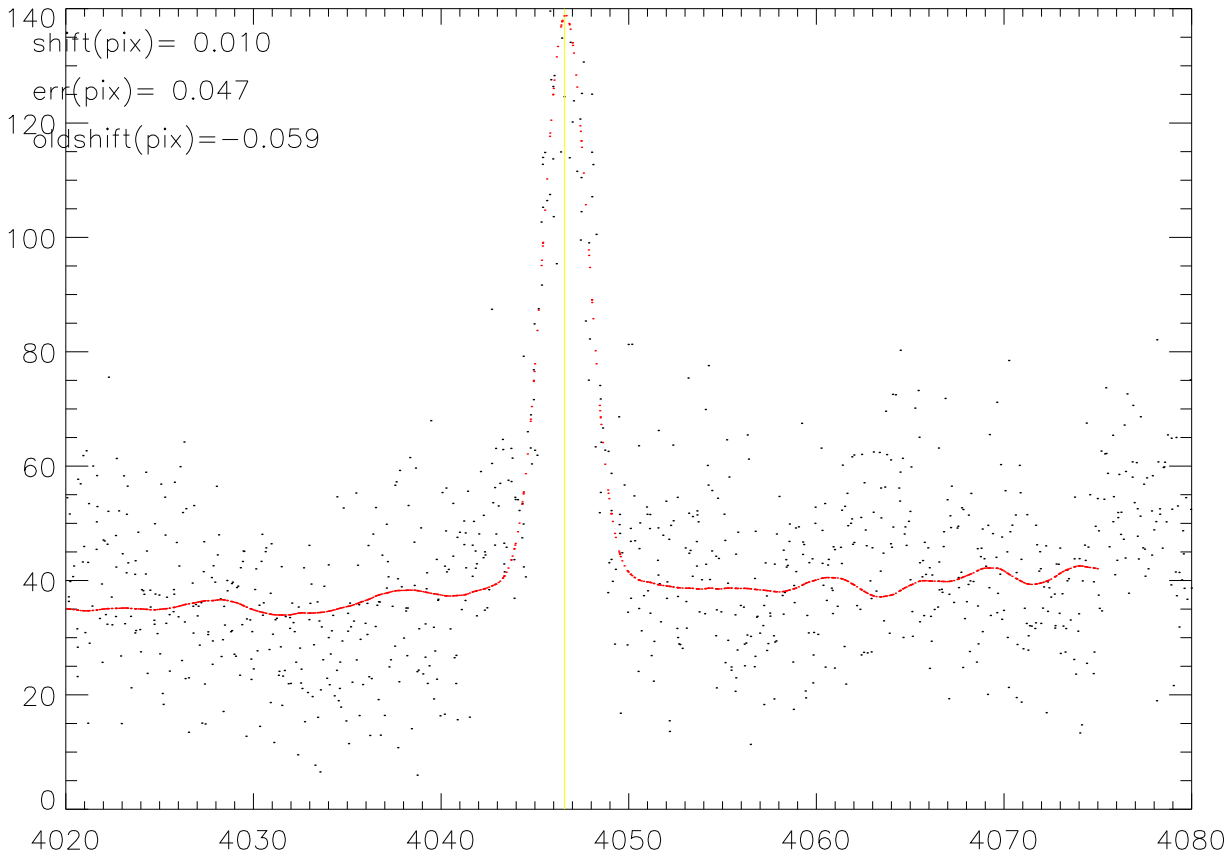

PLATE=0307 MJD=51663 Scattered Light before halo removal on sdR-b2-00003544.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.375
Max value = 7.951
Mon Feb 11 19:16:57 2008

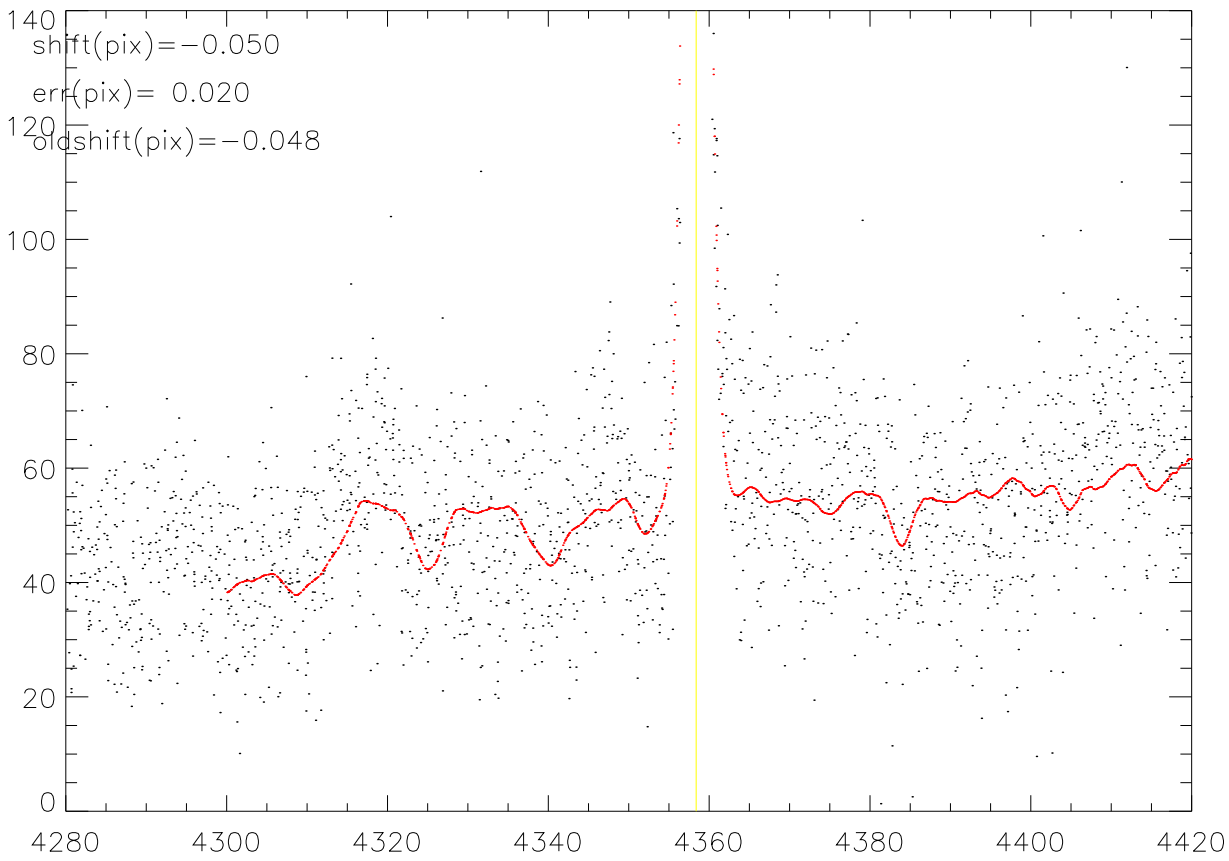

PLATE=0307 MJD=51663 Scattered Light on sdR-b2-00003544.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
4.7
2.9
6.5

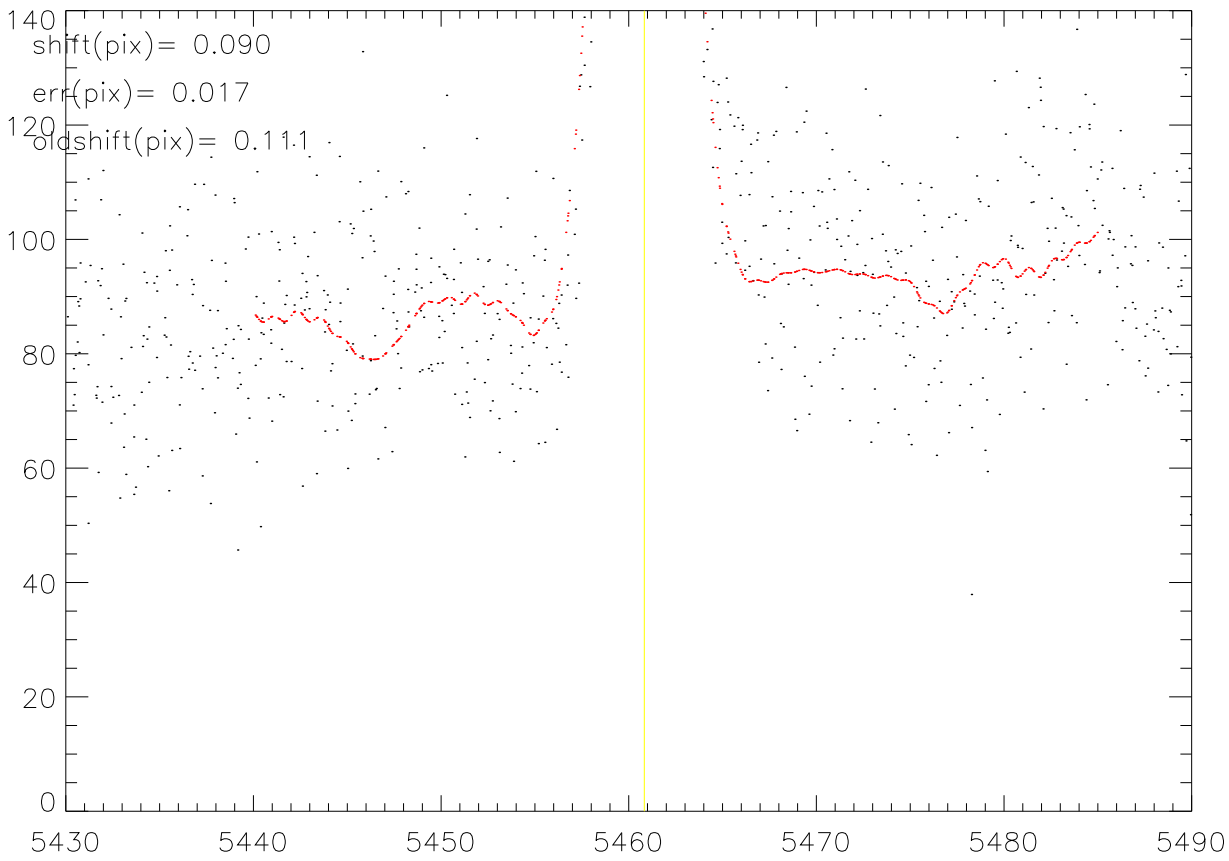

PLATE=0307 MJD=51663 Scattered Light on sdR-b2-00003544.fit
Brightness [electrons/pix]
10
8
6
4
2
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 3.238
Max value = 5.609
Mon Feb 11 19:19:19 2008

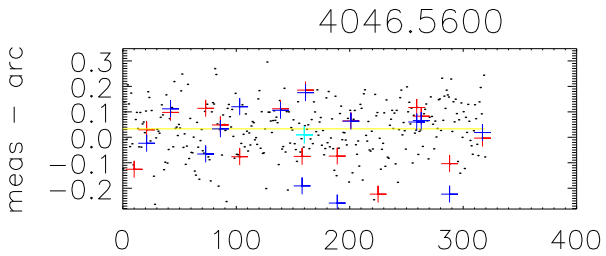

PLATE=0307 MJD=51663 Extraction chi^2 for sdR-b2-00003544.fit
BLACK = Final chisq extraction
BLUE = Initial+scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

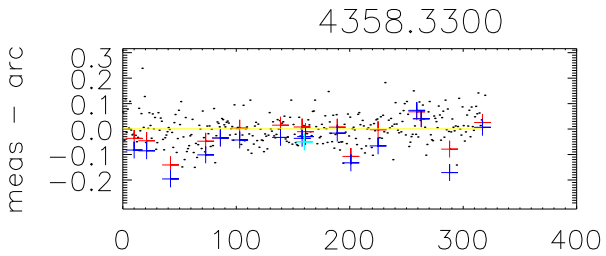

4046.5600
off: −0.06
sig: 0.040
4358.3300
off: −0.05
sig: 0.017
5460.9400
off: 0.11
sig: 0.015
5577.3390
off: 0.13
sig: 0.003
5889.9500
off: 0.22
sig: 0.008
5895.9240
off: 0.21
sig: 0.010

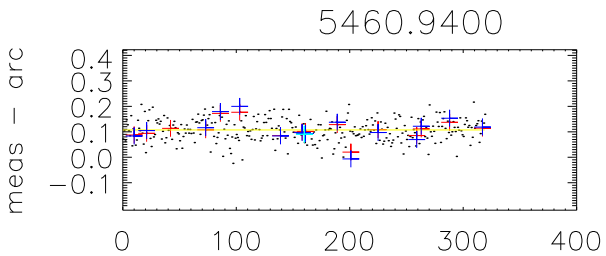

shift(pix)= 0.010
err(pix)= 0.047
oldshift(pix)=-0.059
140
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

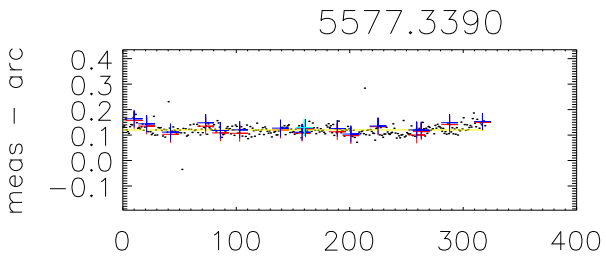

shift(pix)=−0.050
err(pix)= 0.020
oldshift(pix)=−0.048
140
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

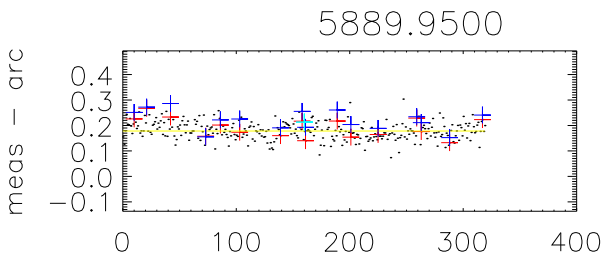

shift(pix)= 0.090
err(pix)= 0.017
oldshift(pix)= 0.111
140
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

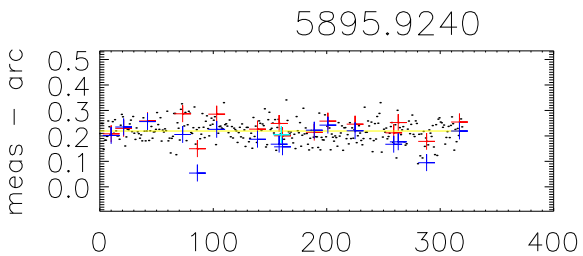

4046.5600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

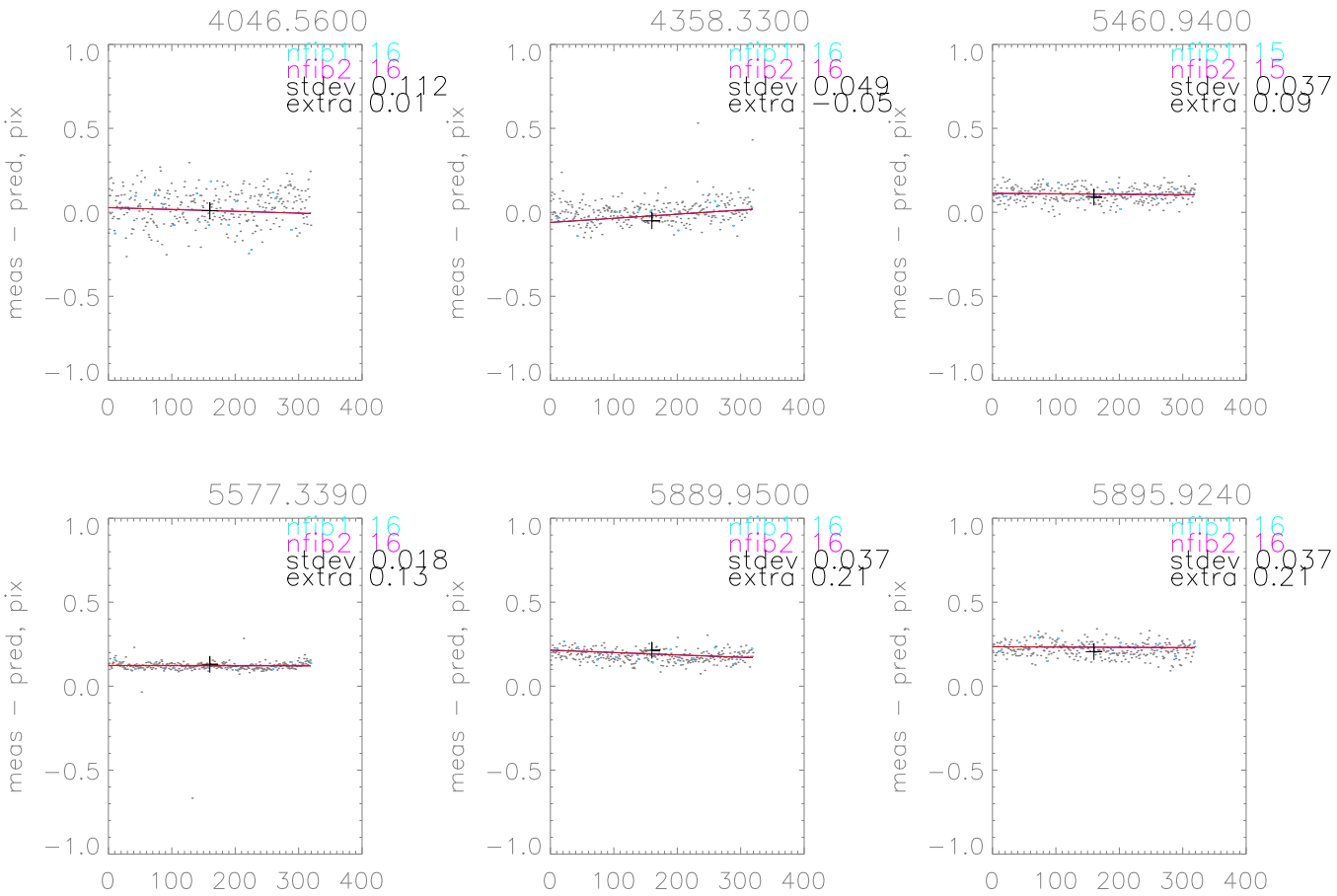

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

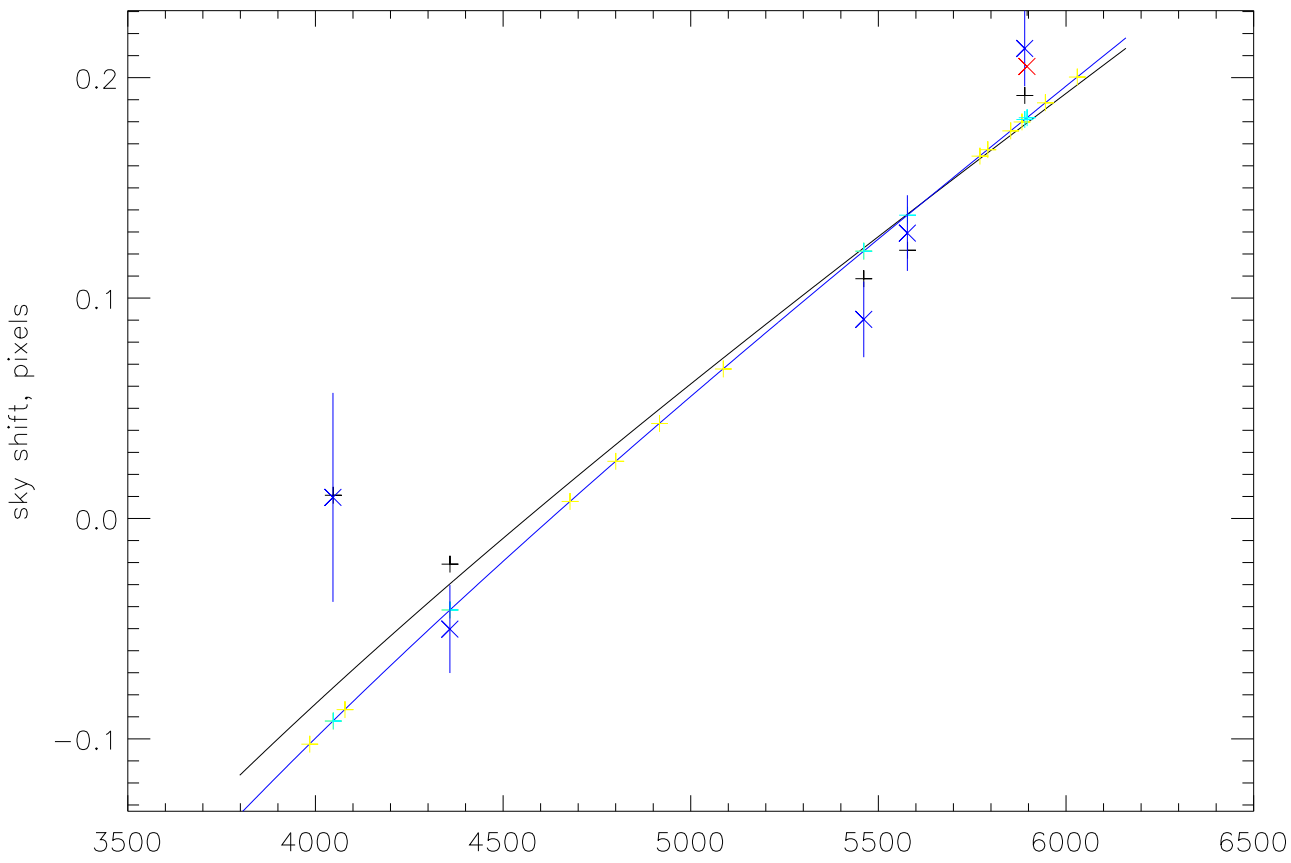

5460.9400
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

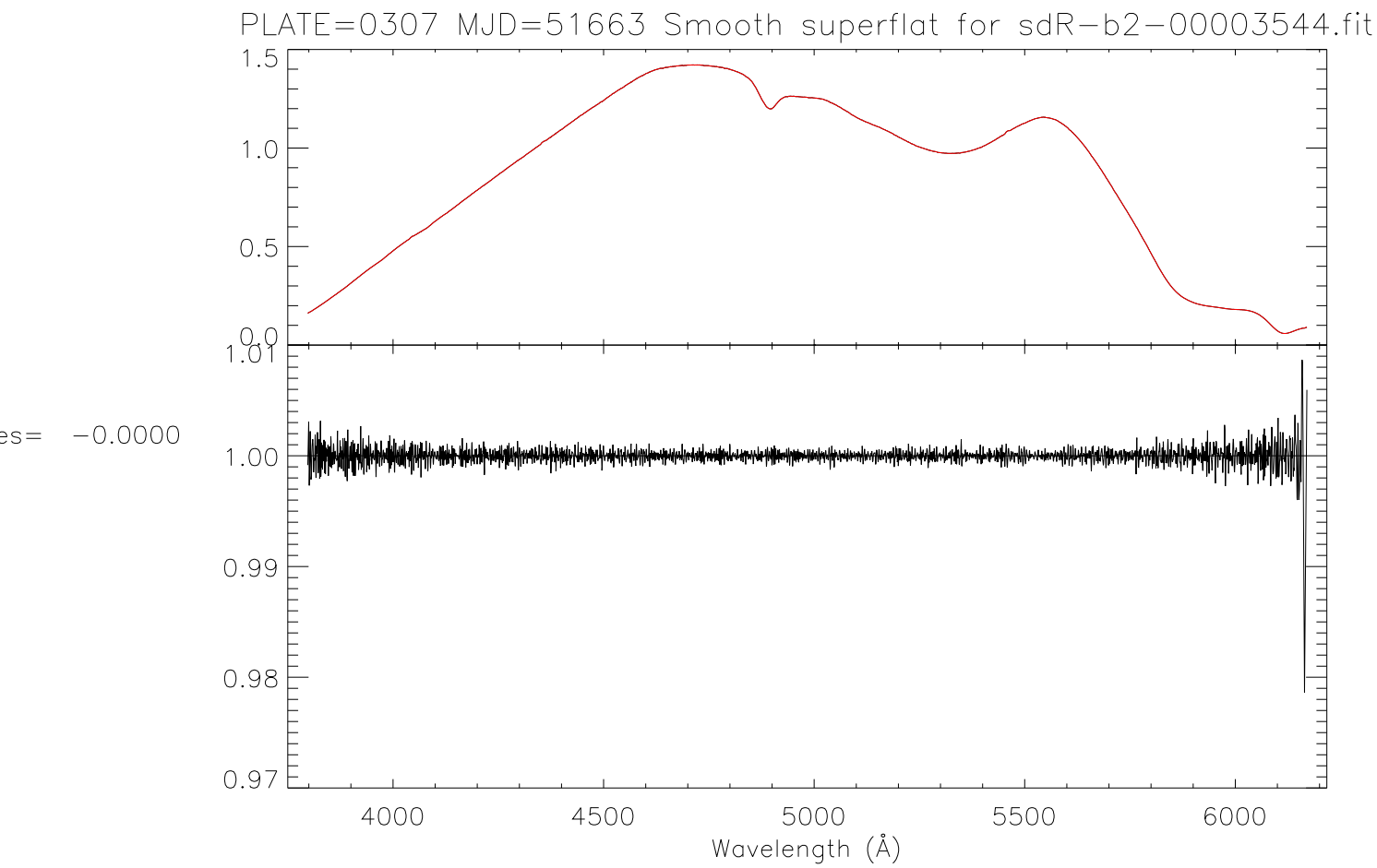

5577.3390
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

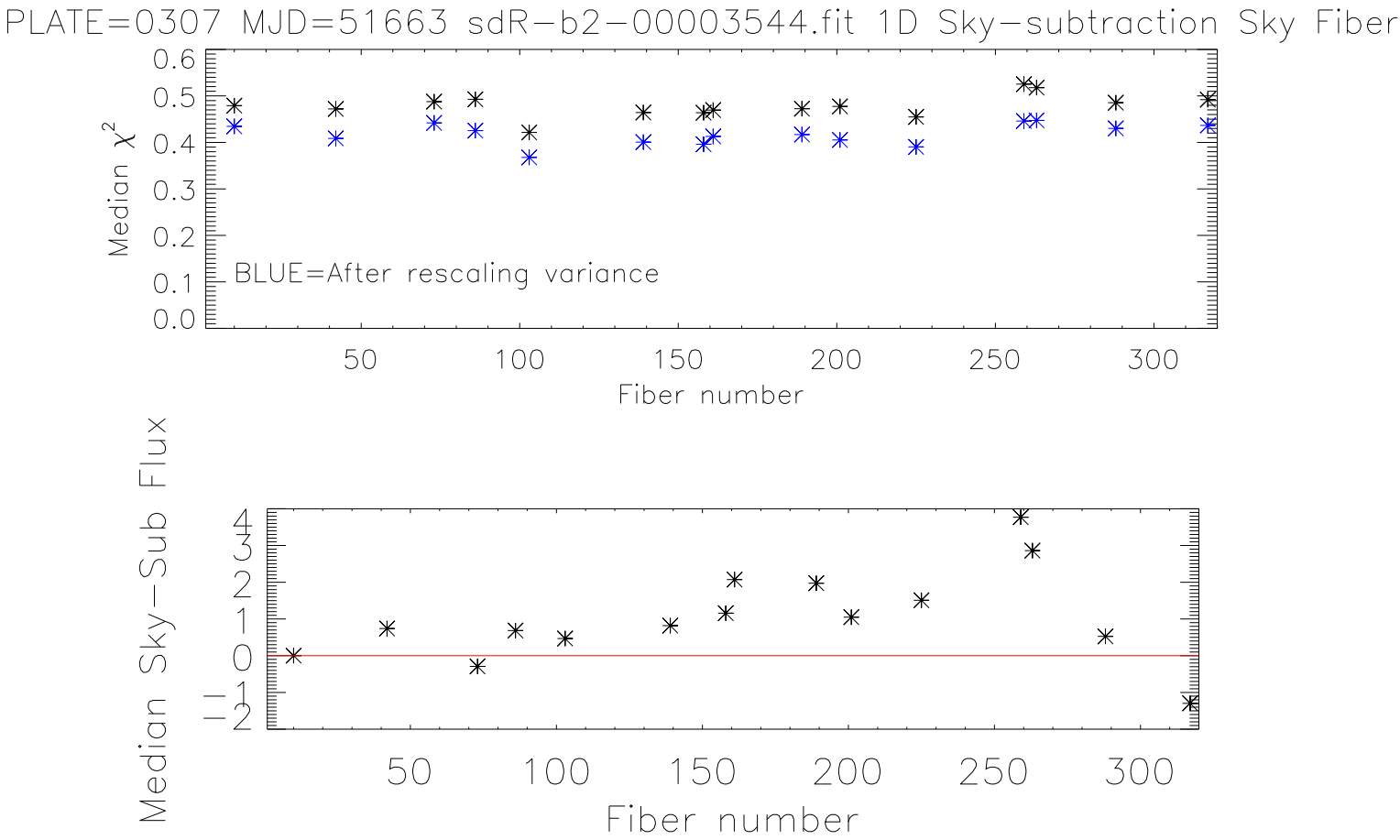

5889.9500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

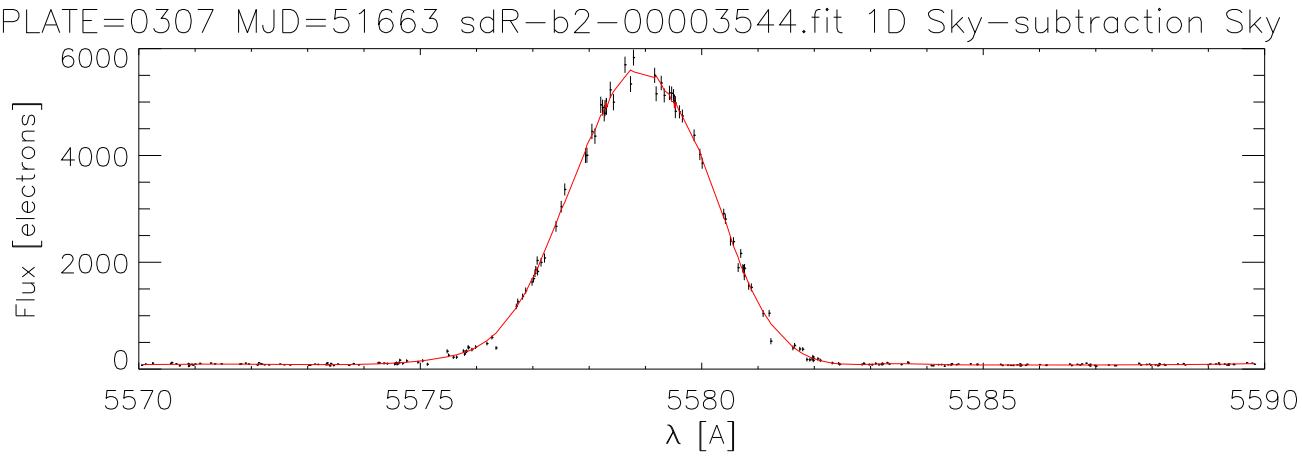

5895.9240
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

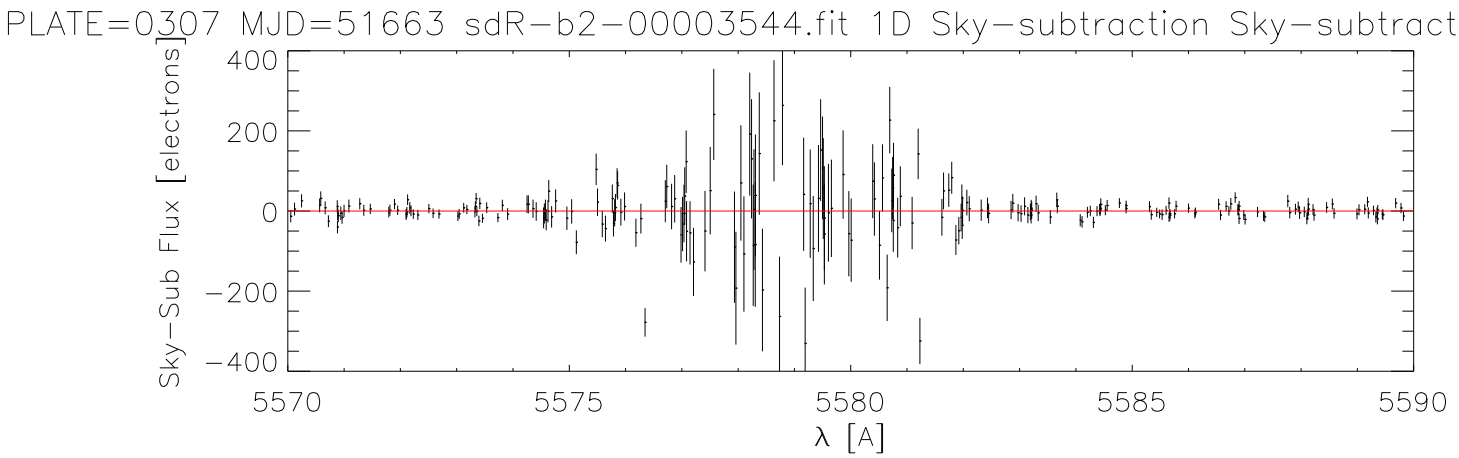

4046.5600
nfib1 16
nfib2 16
stdev 0.112
extra 0.01
4358.3300
nfib1 16
nfib2 16
stdev 0.049
extra −0.05
5460.9400
nfib1 15
nfib2 15
stdev 0.037
extra 0.09
5577.3390
nfib1 16
nfib2 16
stdev 0.018
extra 0.13
5889.9500
nfib1 16
nfib2 16
stdev 0.037
extra 0.21
5895.9240
nfib1 16
nfib2 16
stdev 0.037
extra 0.21
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

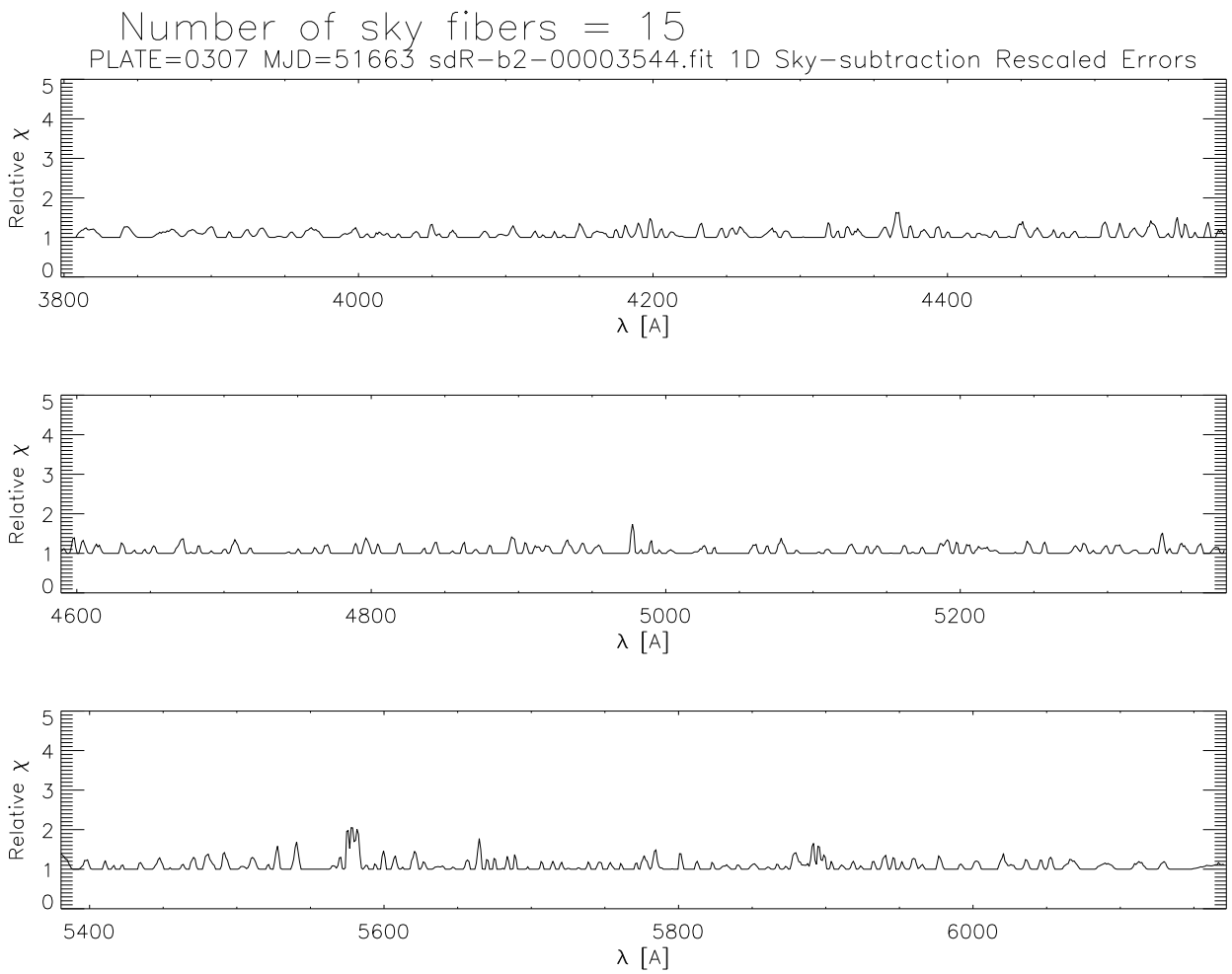

sky shift, pixels
0.2
0.1
0.0
−0.1
3500
4000
4500
5000
5500
6000
6500

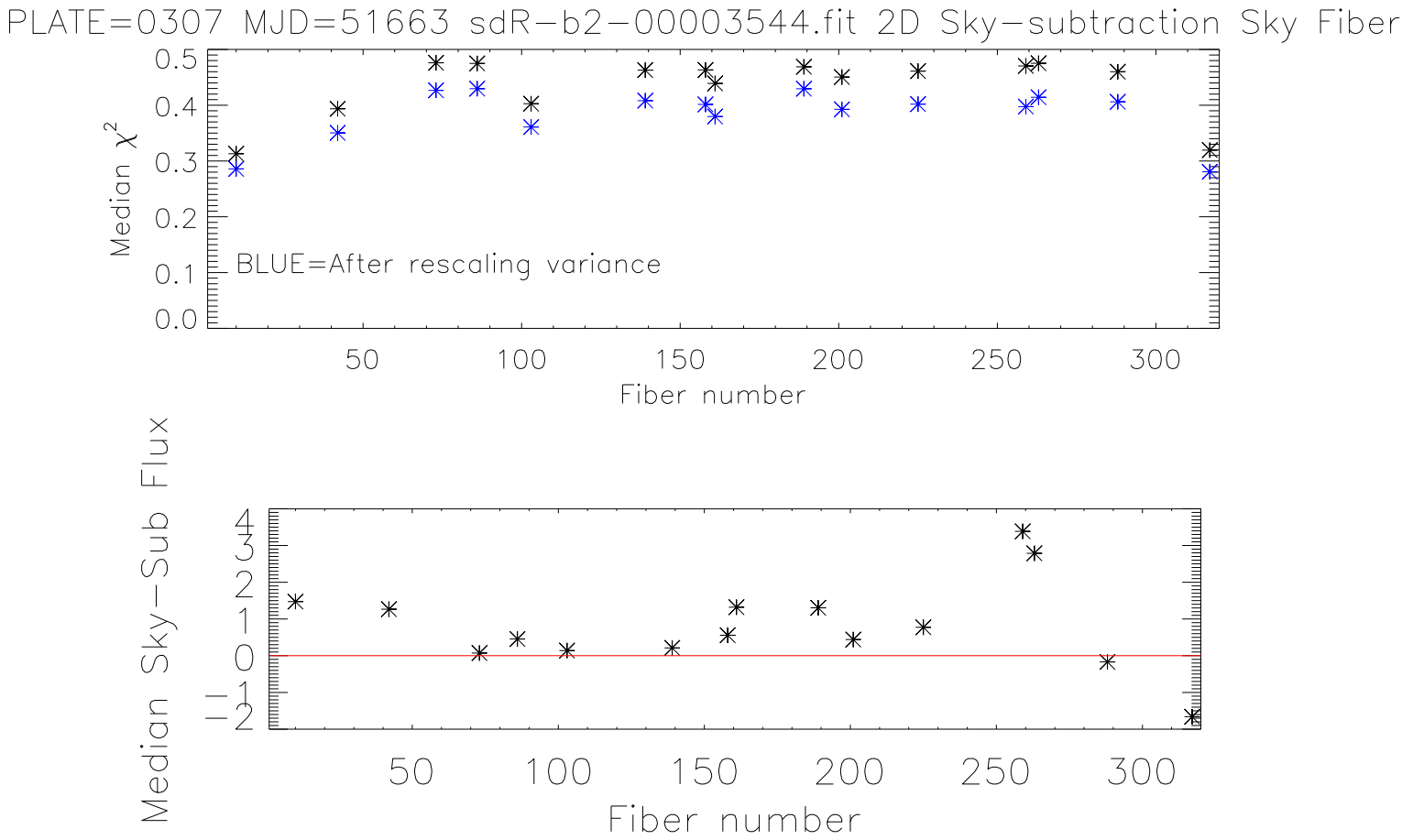

PLATE=0307 MJD=51663 Smooth superflat for sdR-b2-00003544.fit
1.5
1.0
0.5
0.0
1.01
1.00
0.99
0.98
0.97
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

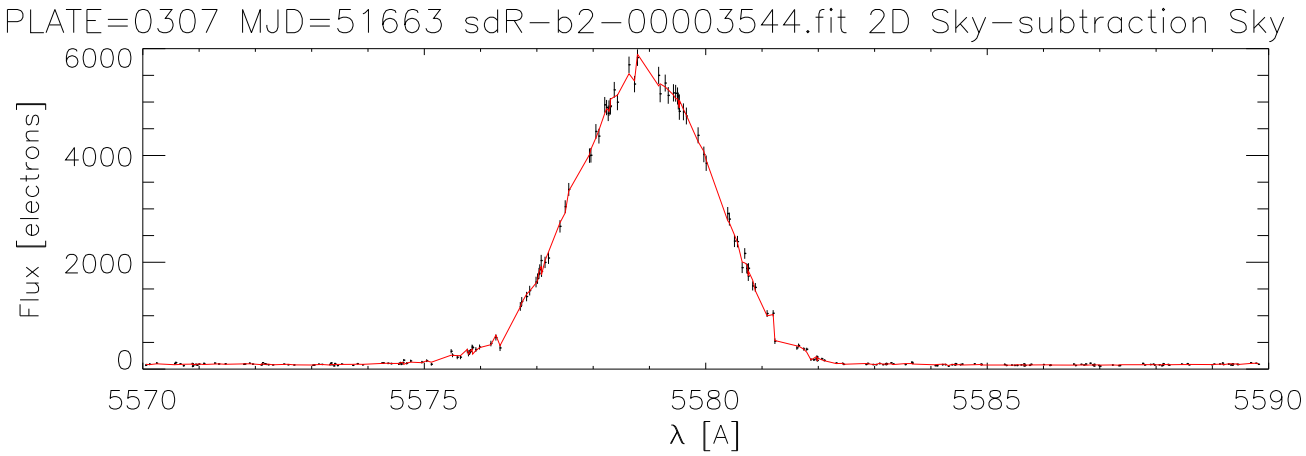

PLATE=0307 MJD=51663 sdR-b2-00003544.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

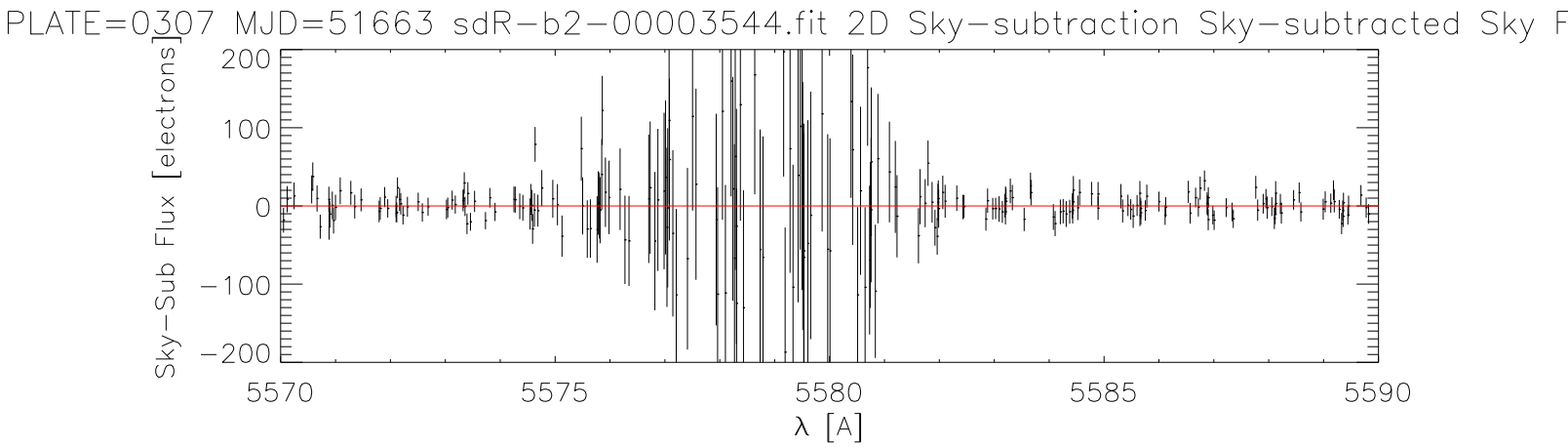

PLATE=0307 MJD=51663 sdR-b2-00003544.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

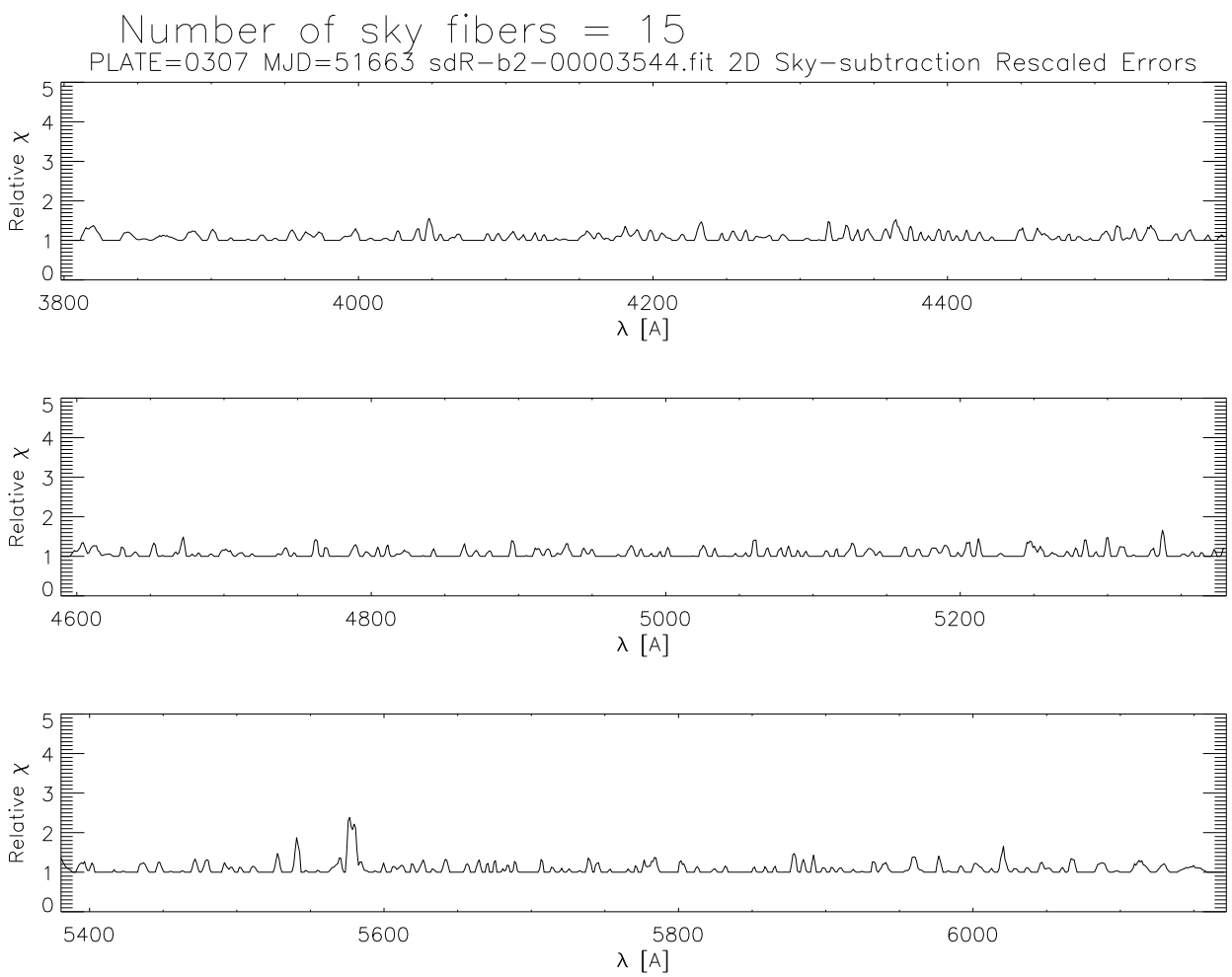

PLATE=0307 MJD=51663 sdR-b2-00003544.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

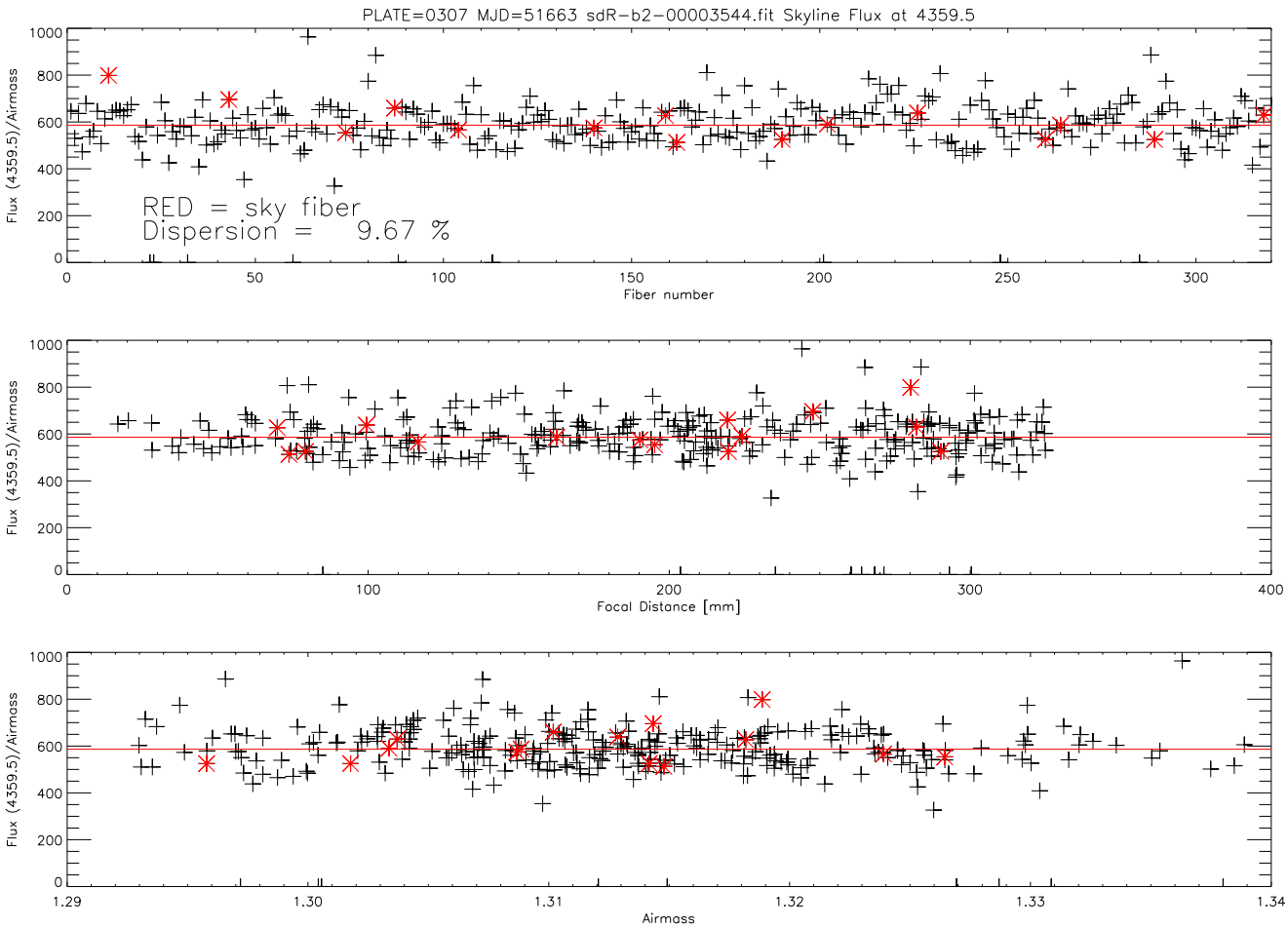

Number of sky fibers = 15
PLATE=0307 MJD=51663 sdR-b2-00003544.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

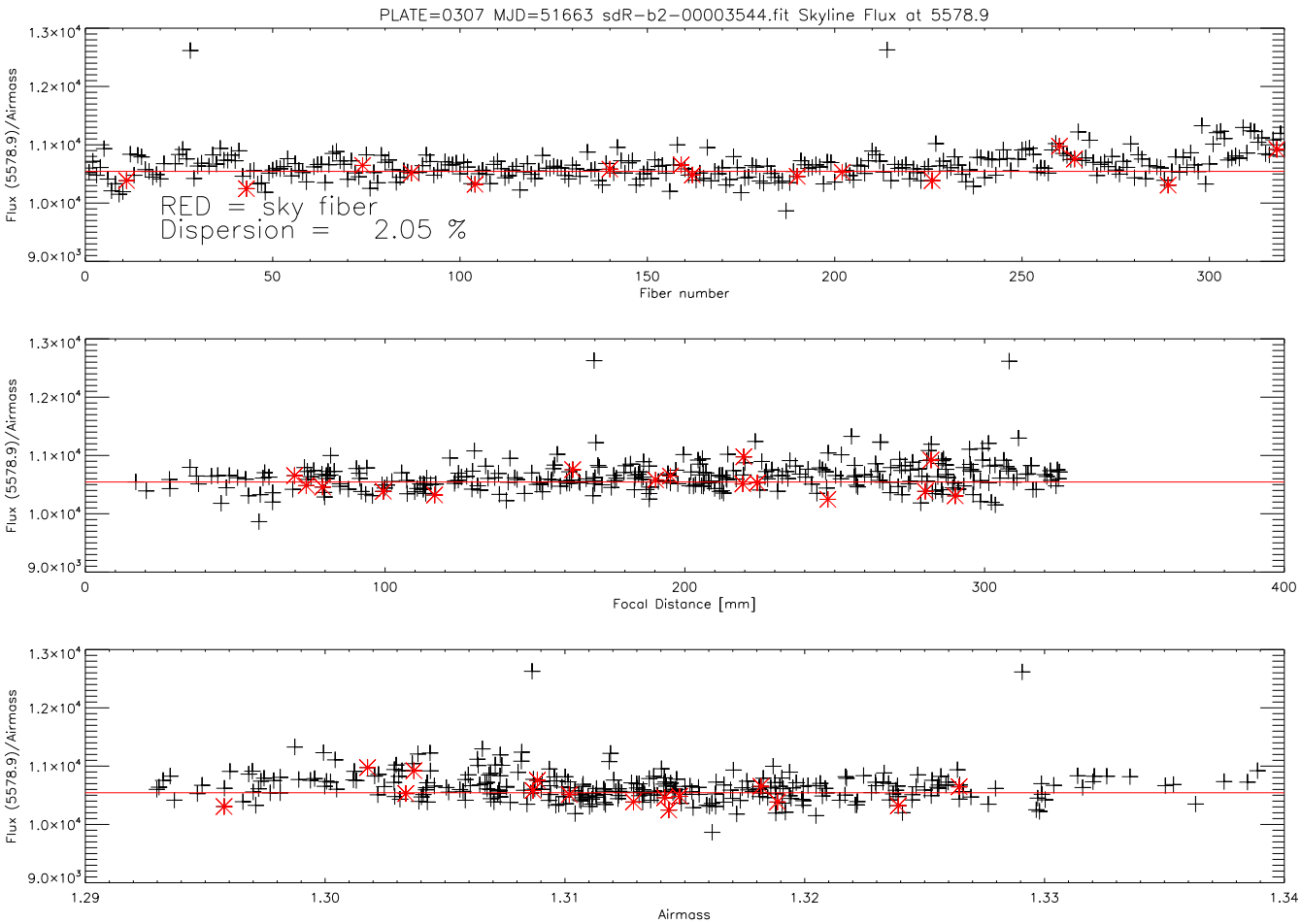

PLATE=0307 MJD=51663 sdR-b2-00003544.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

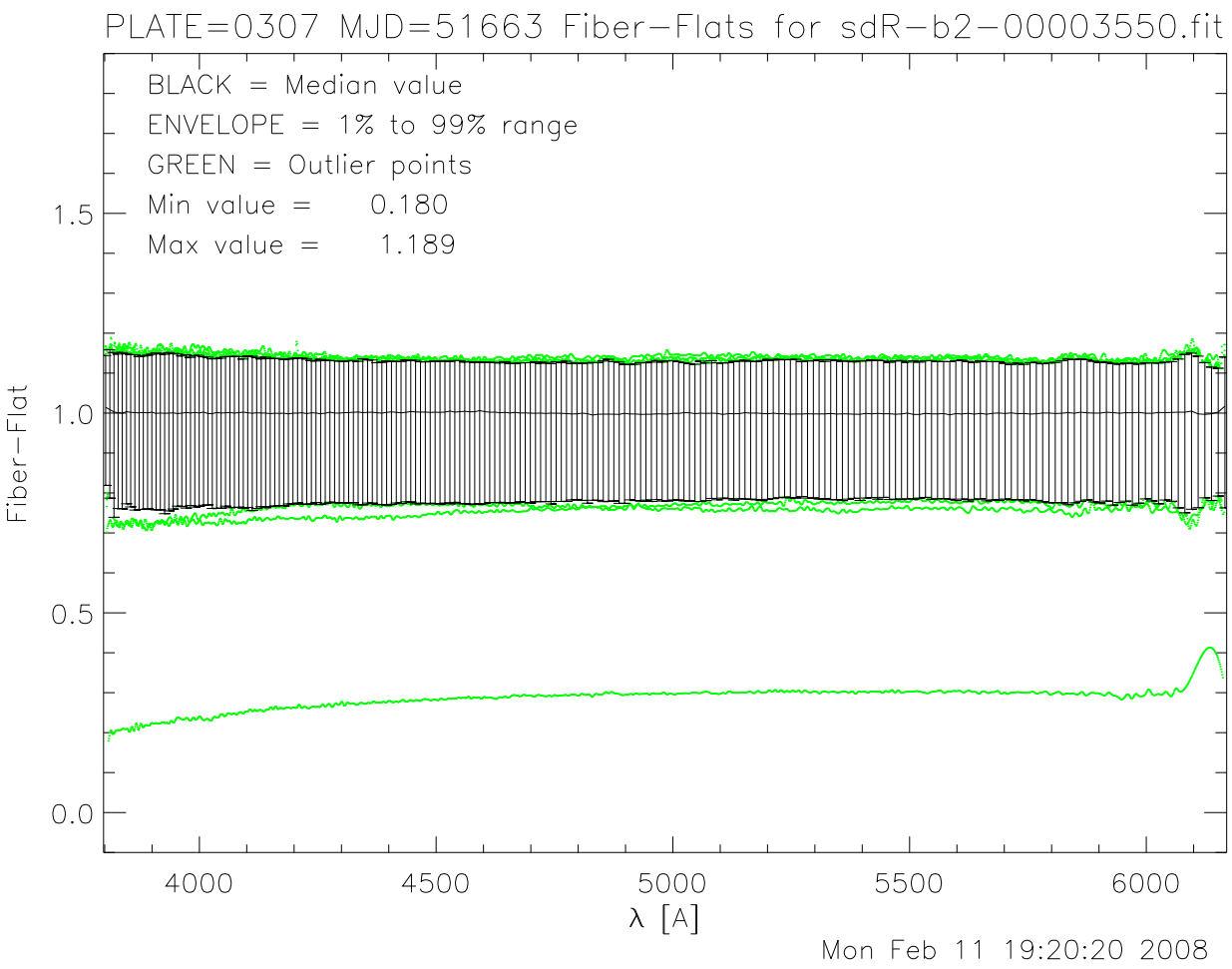

PLATE=0307 MJD=51663 sdR-b2-00003544.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

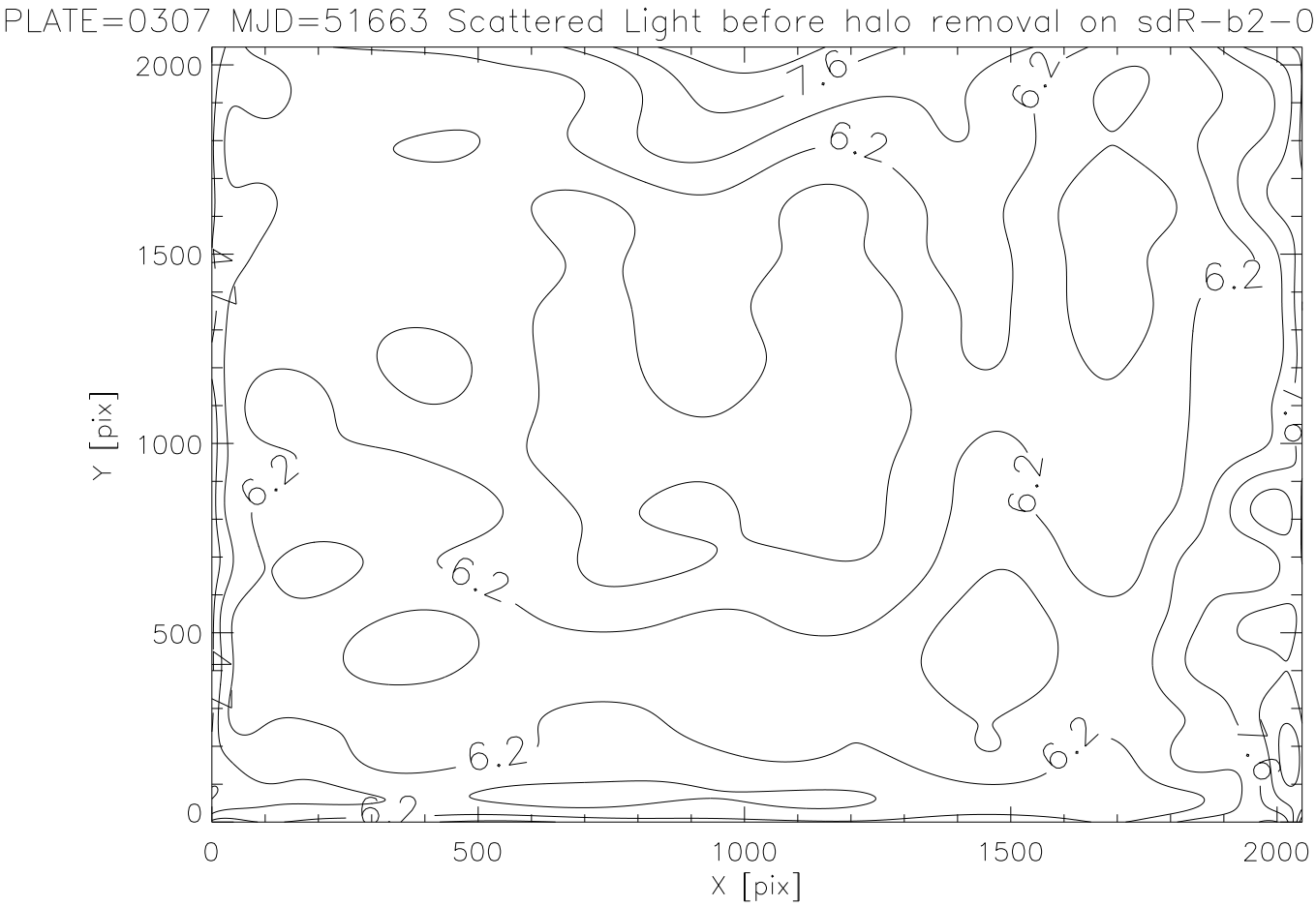

PLATE=0307 MJD=51663 sdR-b2-00003544.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

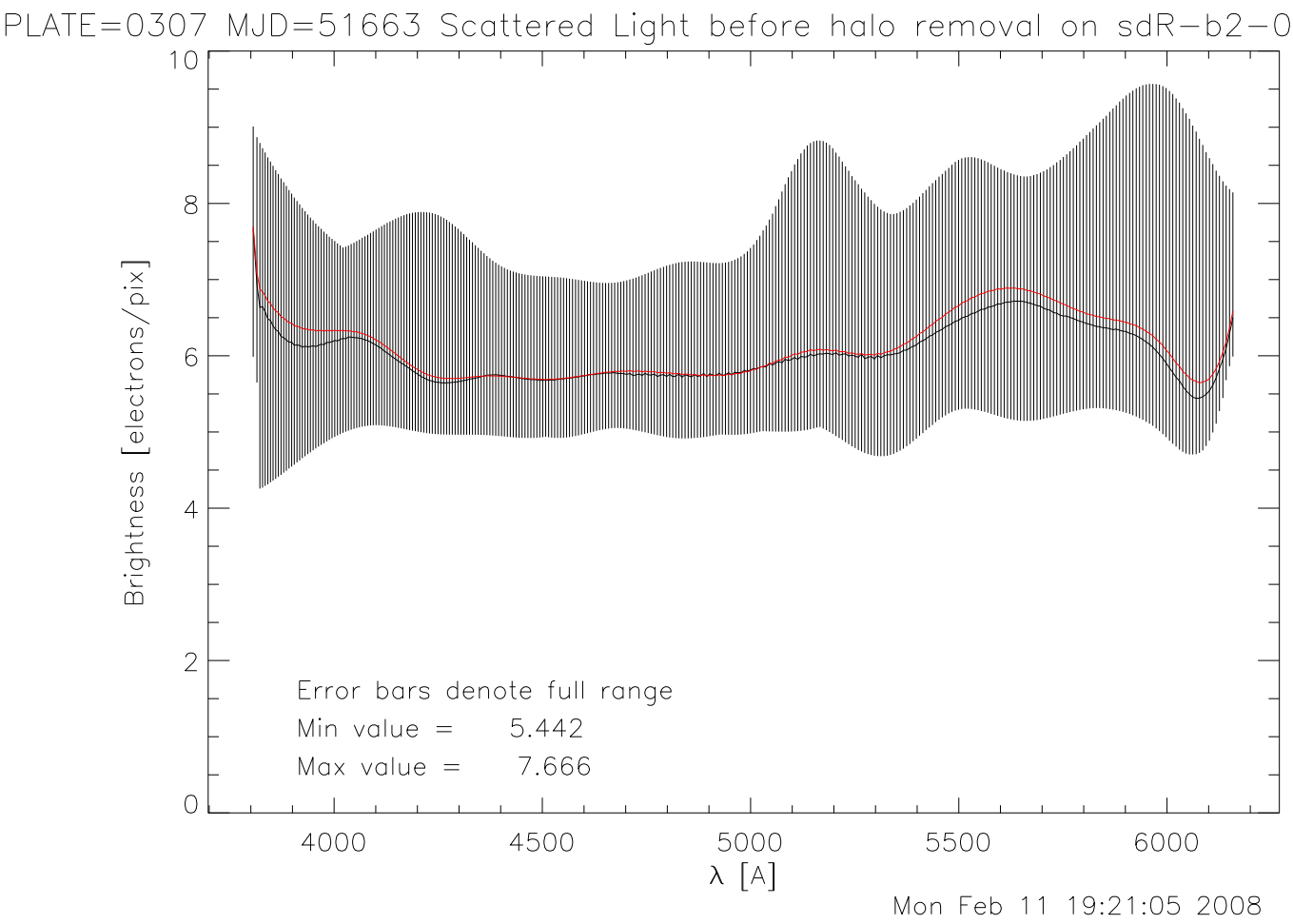

Number of sky fibers = 15
PLATE=0307 MJD=51663 sdR-b2-00003544.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

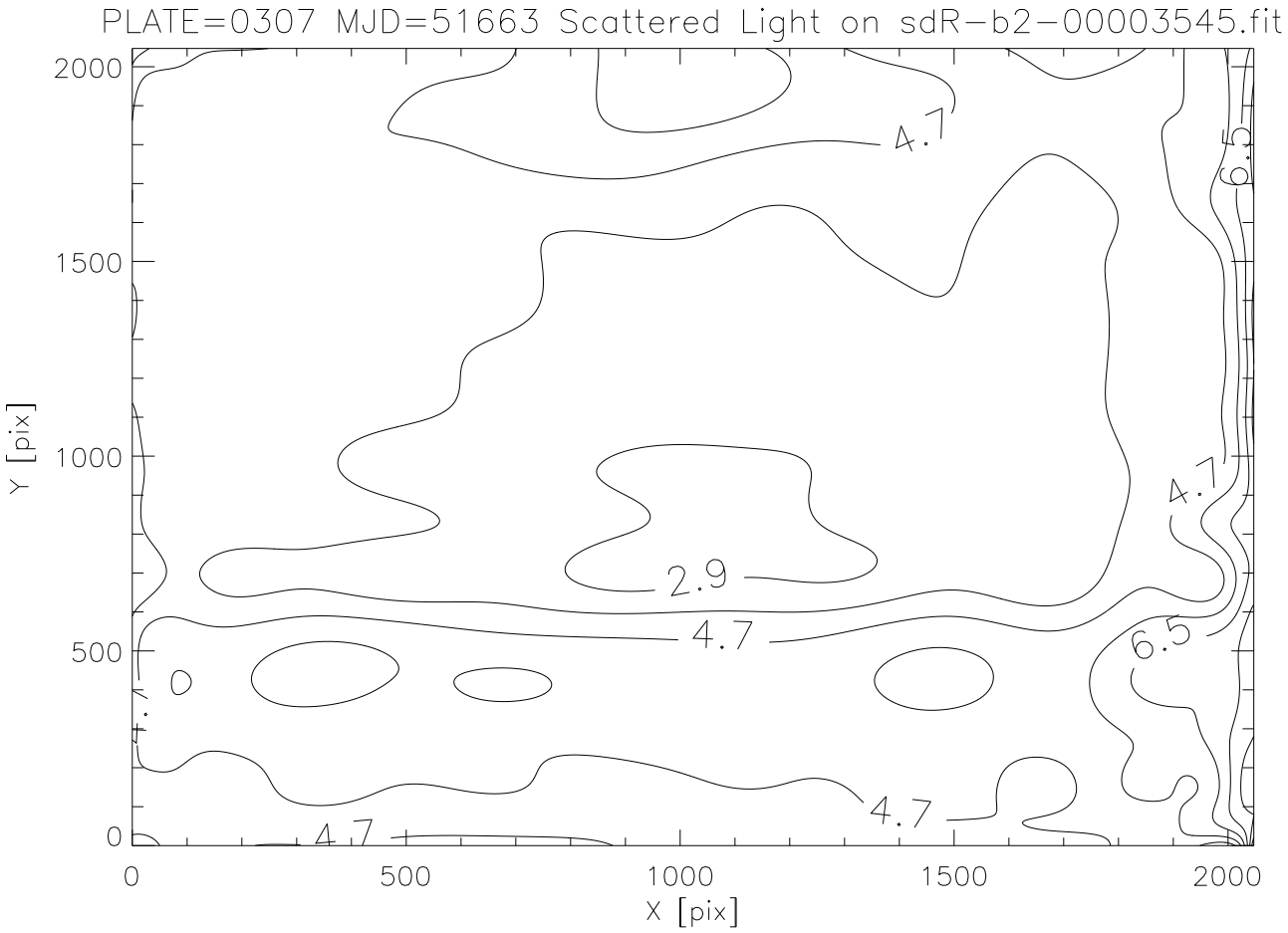

PLATE=0307 MJD=51663 sdR-b2-00003544.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 9.67 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

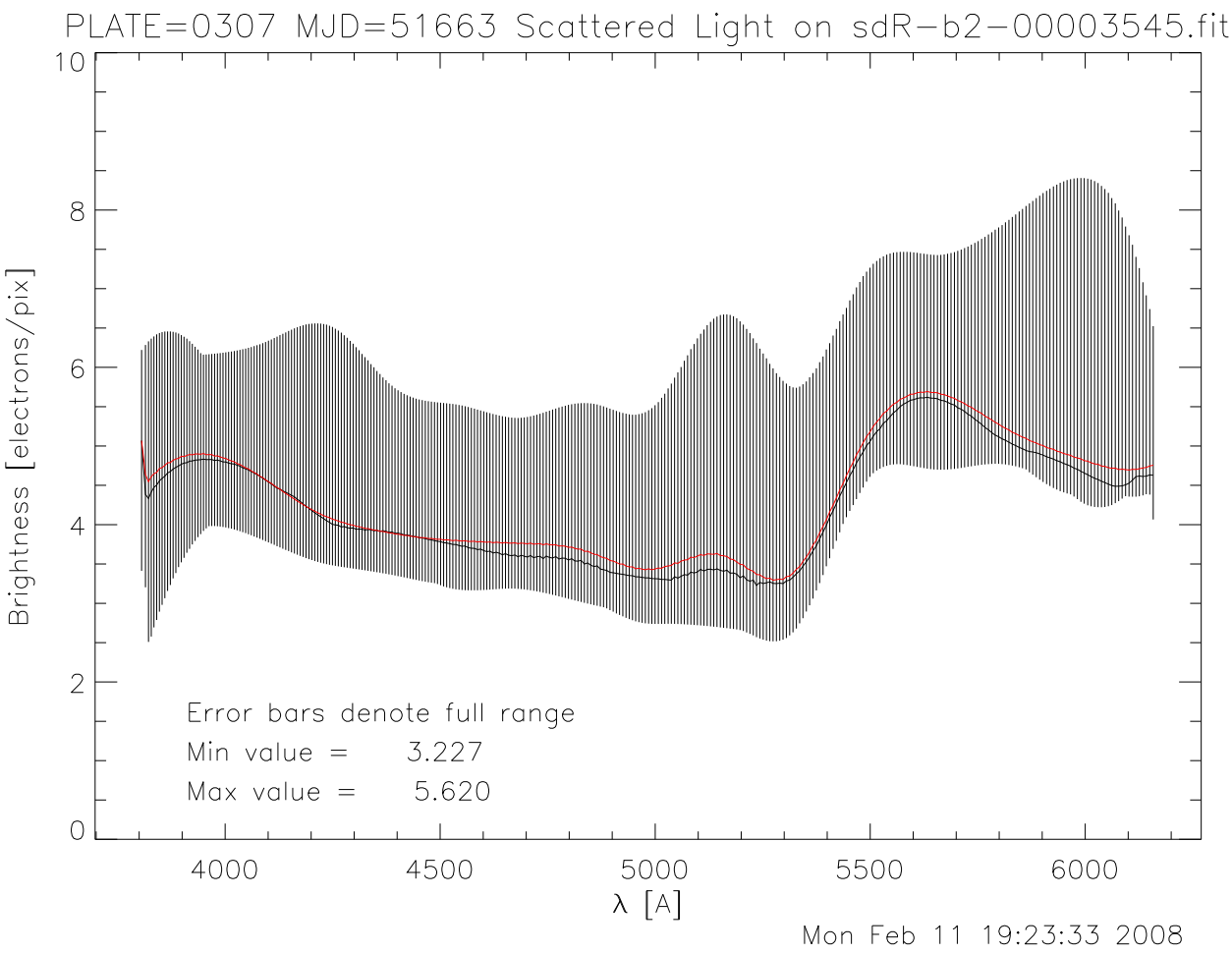

PLATE=0307 MJD=51663 sdR-b2-00003544.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
1.3×10^4
1.2×10^4
1.1×10^4
1.0×10^4
9.0×10^3
RED = sky fiber
Dispersion = 2.05 %
0
50
100
150
200
250
300
Fiber number
Flux (5578.9)/Airmass
1.3×10^4
1.2×10^4
1.1×10^4
1.0×10^4
9.0×10^3
0
100
200
300
400
Focal Distance [mm]
Flux (5578.9)/Airmass
1.3×10^4
1.2×10^4
1.1×10^4
1.0×10^4
9.0×10^3
1.29
1.30
1.31
1.32
1.33
1.34
Airmass

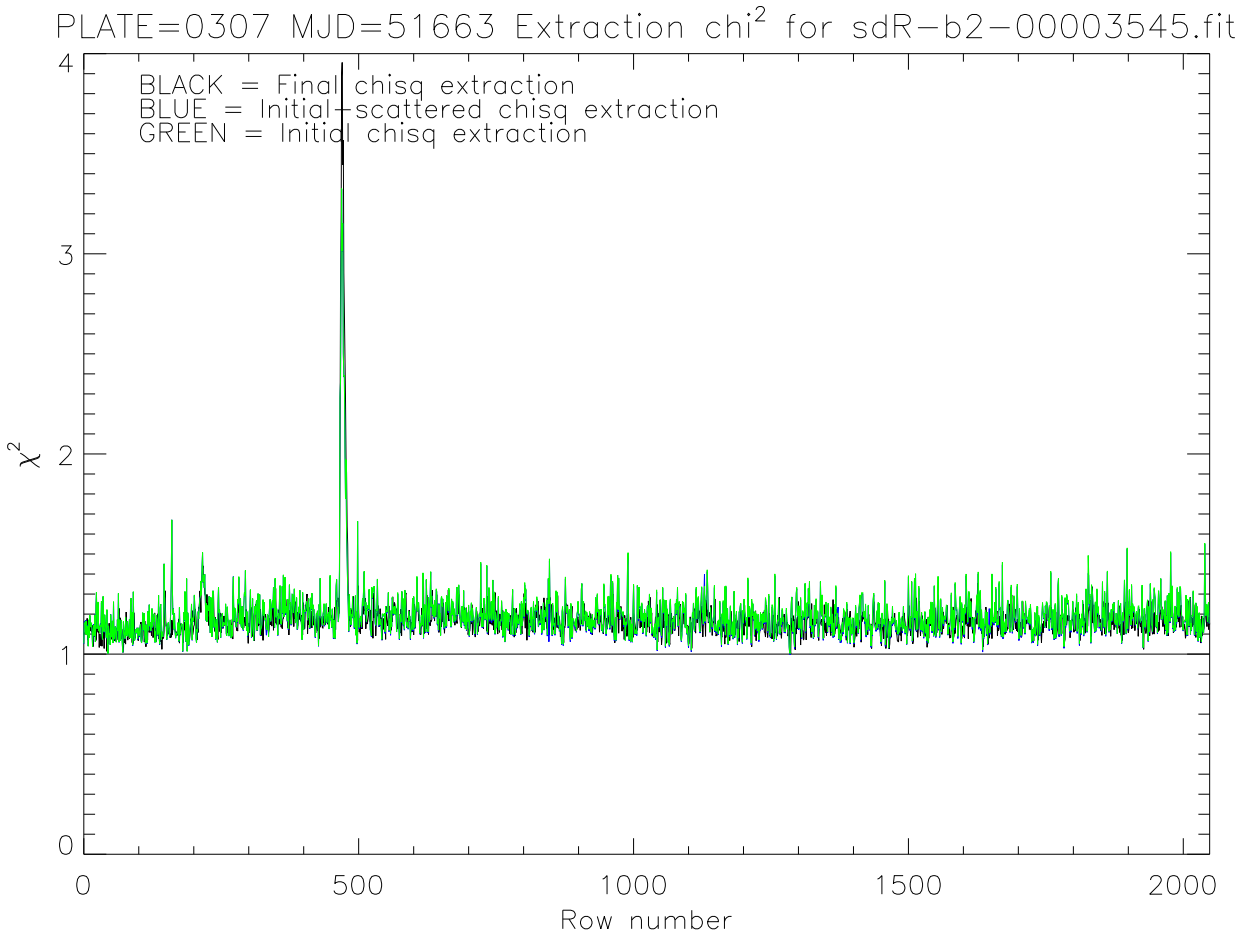

PLATE=0307 MJD=51663 Fiber-Flats for sdR-b2-00003550.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.180
Max value = 1.189
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 19:20:20 2008

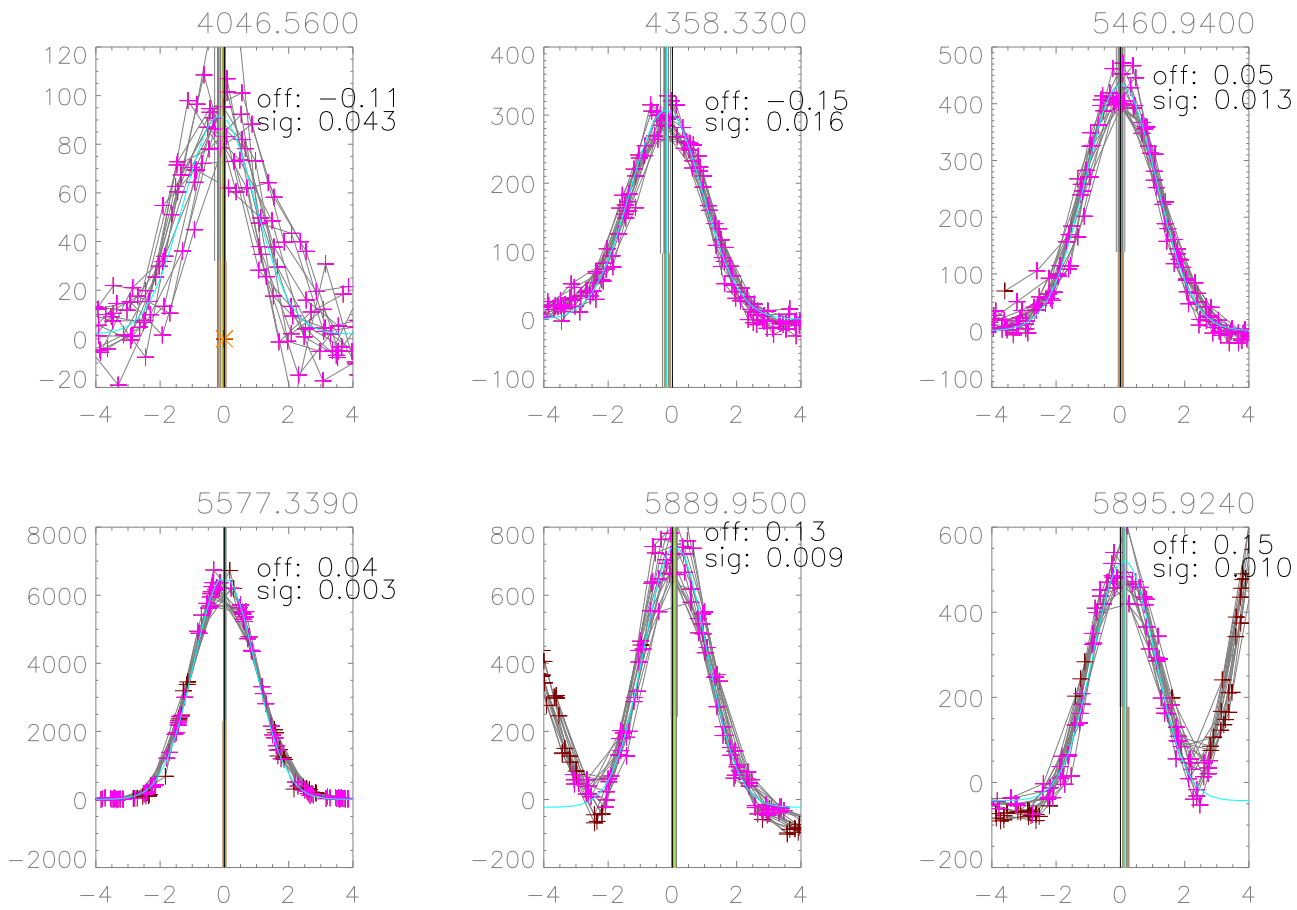

PLATE=0307 MJD=51663 Scattered Light before halo removal on sdR-b2-00003545.f
7.6
6.2
6.2
6.2
6.2
6.2
6.2
6.2
6.2
Y [pix]
X [pix]
0
500
1000
1500
2000

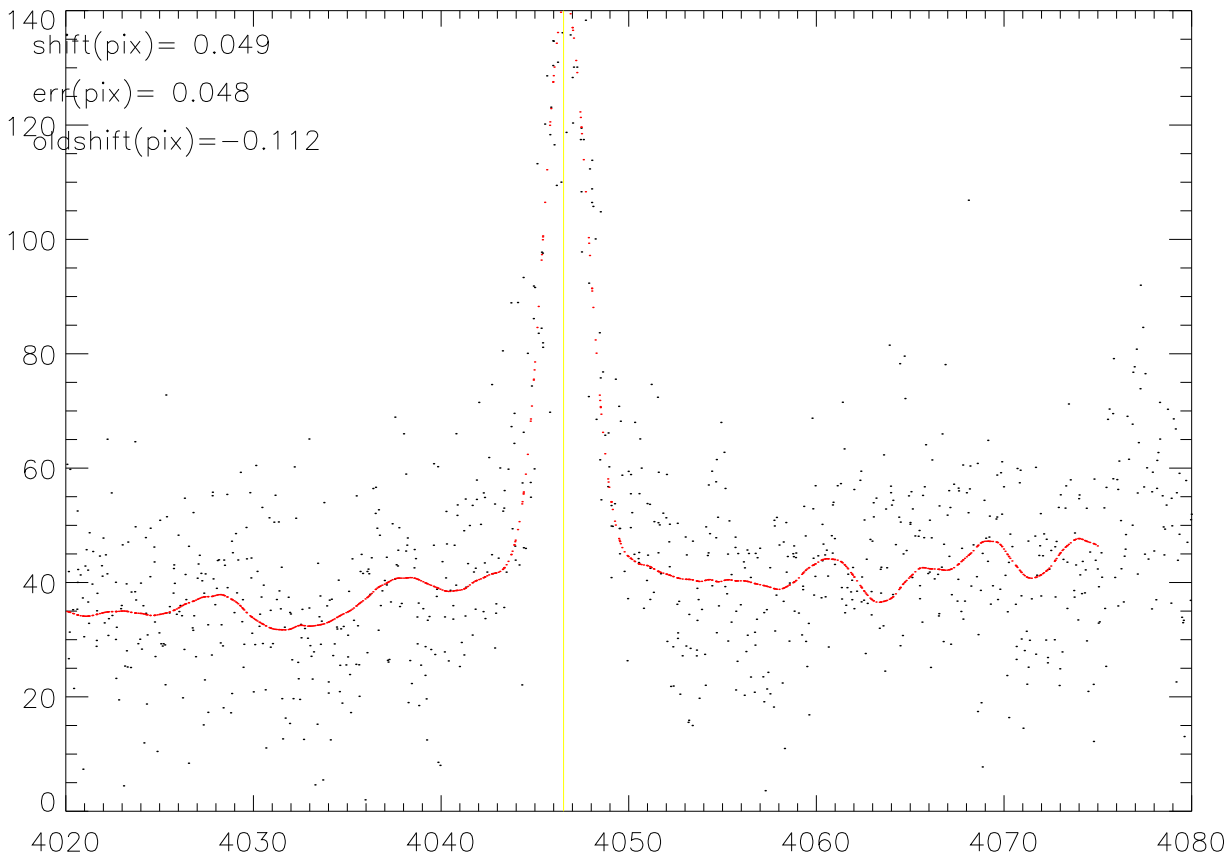

PLATE=0307 MJD=51663 Scattered Light before halo removal on sdR-b2-00003545.f
Brightness [electrons/pix]
10
8
6
4
2
0
Error bars denote full range
Min value = 5.442
Max value = 7.666
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 19:21:05 2008

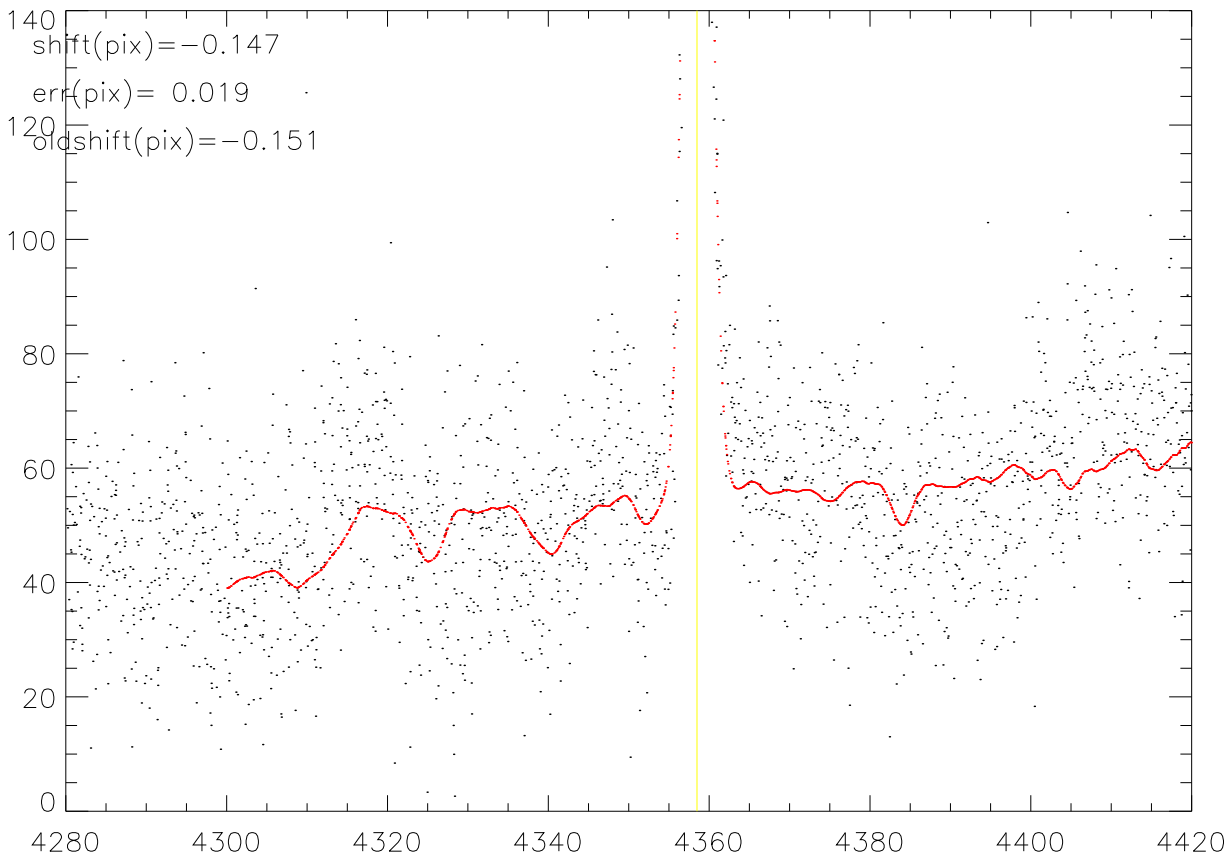

PLATE=0307 MJD=51663 Scattered Light on sdR-b2-00003545.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
4.7
6.5
2.9
0

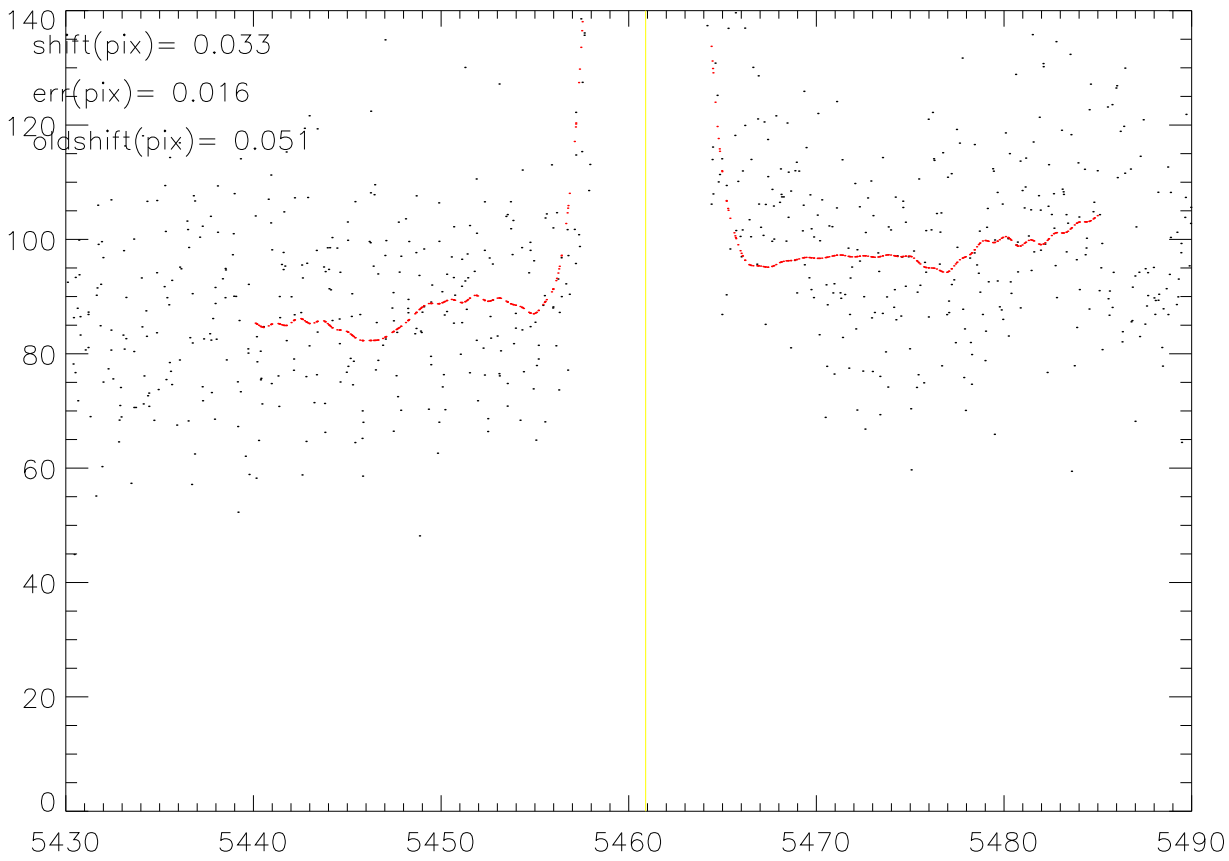

PLATE=0307 MJD=51663 Scattered Light on sdR-b2-00003545.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.227
Max value = 5.620
Mon Feb 11 19:23:33 2008

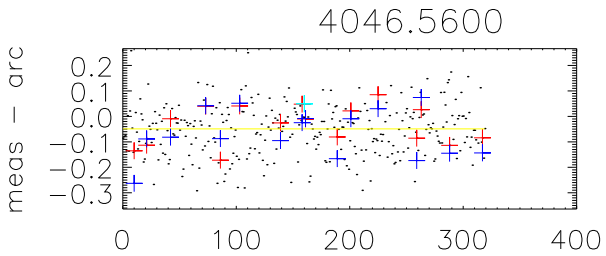

PLATE=0307 MJD=51663 Extraction chi^2 for sdR-b2-00003545.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

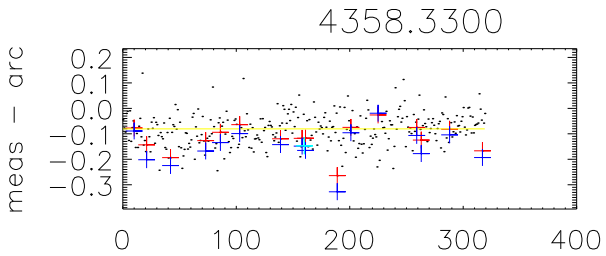

4046.5600
off: −0.11
sig: 0.043
4358.3300
off: −0.15
sig: 0.016
5460.9400
off: 0.05
sig: 0.013
5577.3390
off: 0.04
sig: 0.003
5889.9500
off: 0.13
sig: 0.009
5895.9240
off: 0.15
sig: 0.010

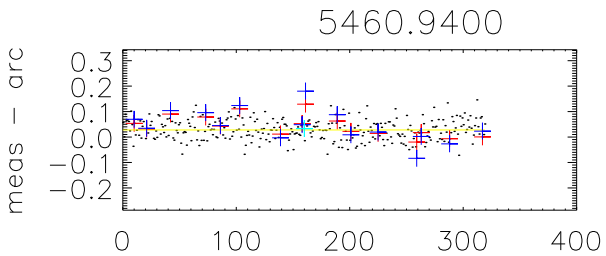

shift(pix)= 0.049
err(pix)= 0.048
oldshift(pix)=-0.112
140
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

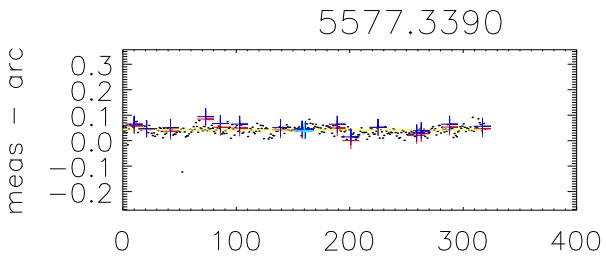

shift(pix)=−0.147
err(pix)= 0.019
oldshift(pix)=−0.151
140
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

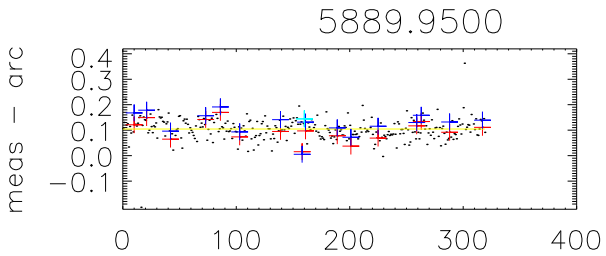

shift(pix)= 0.033
err(pix)= 0.016
oldshift(pix)= 0.051
140
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

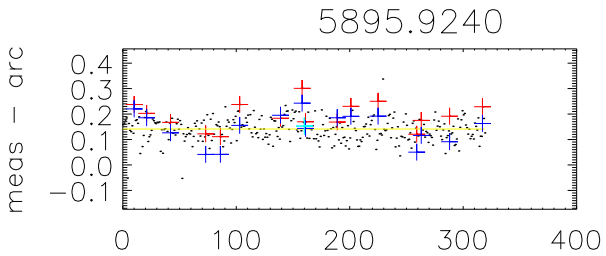

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

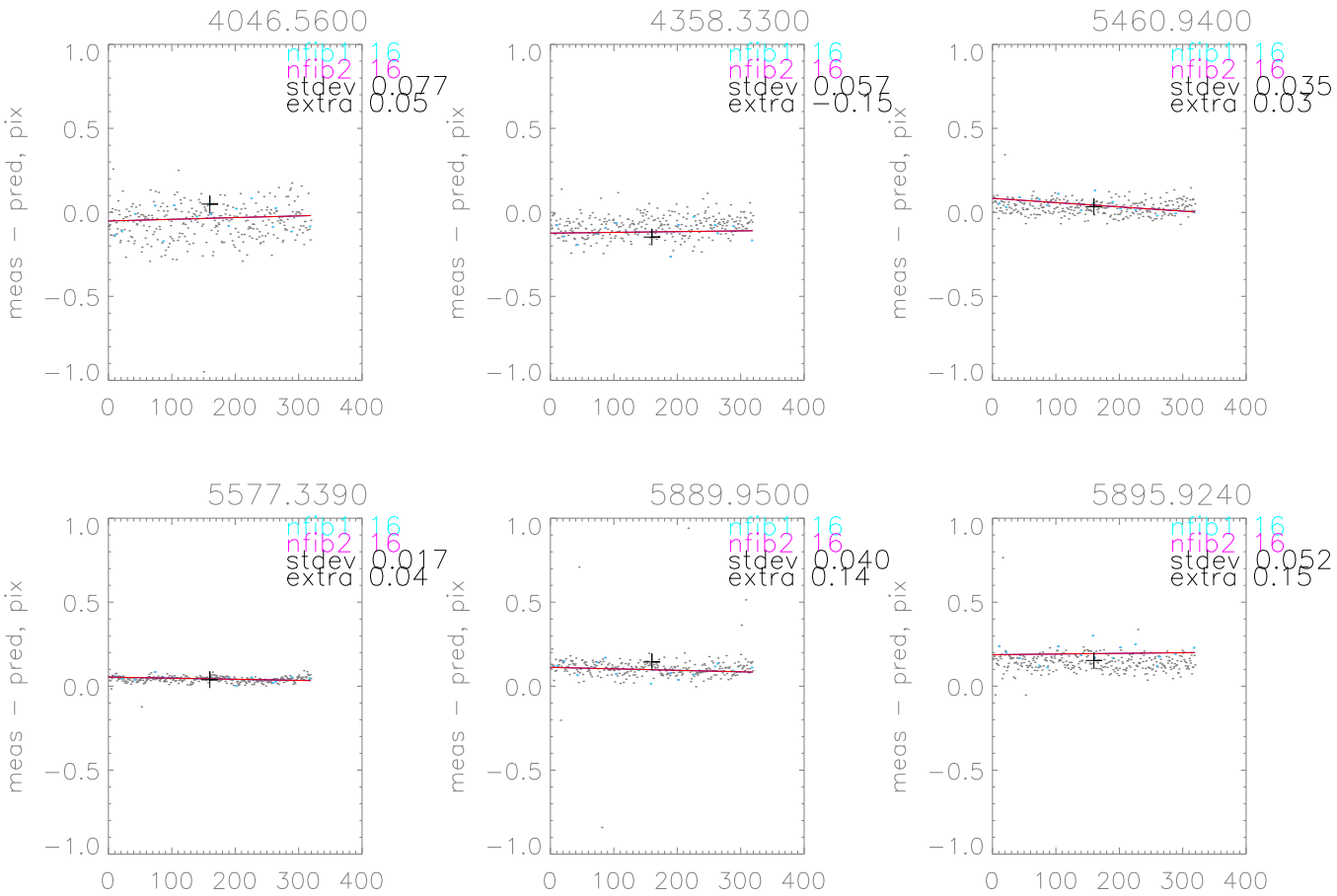

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

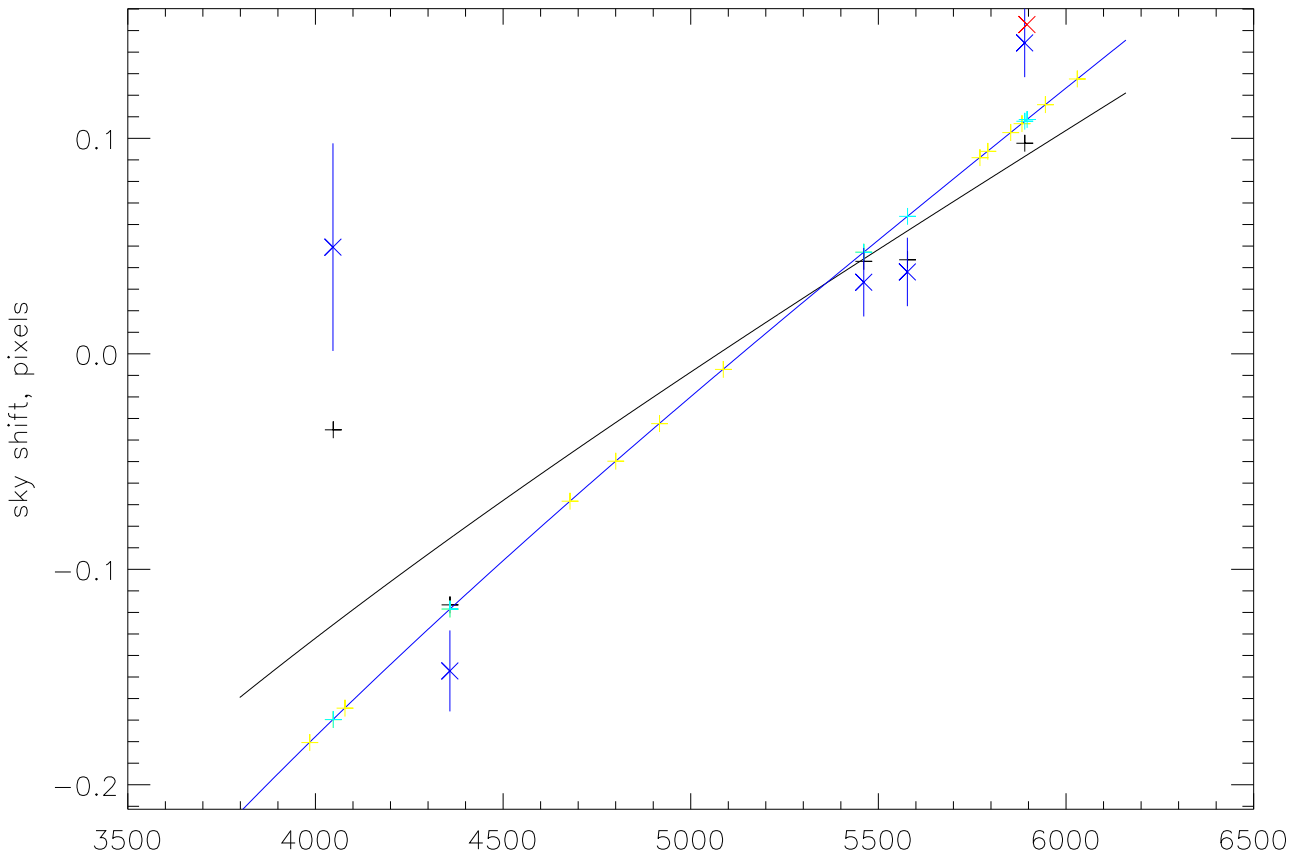

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

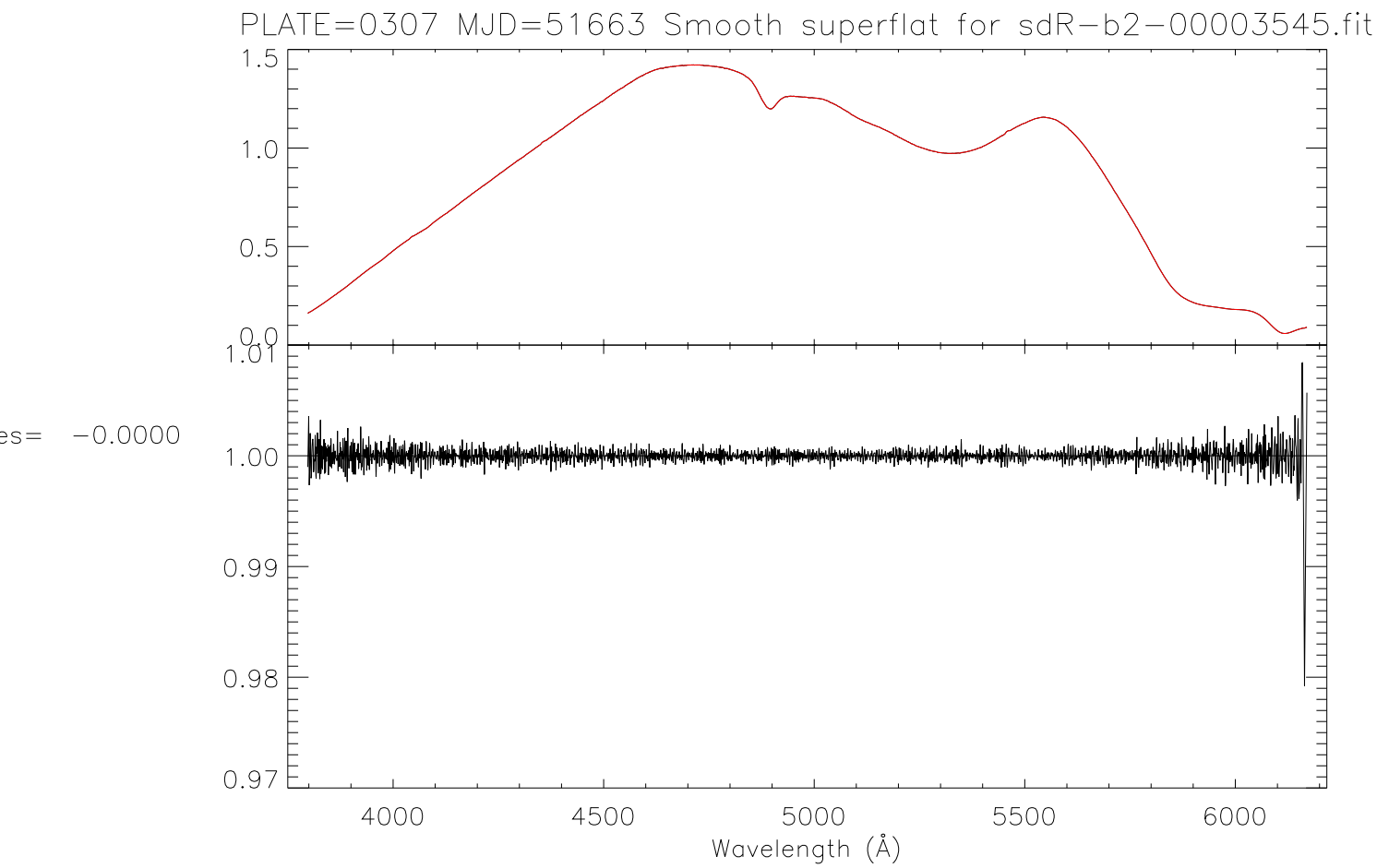

5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

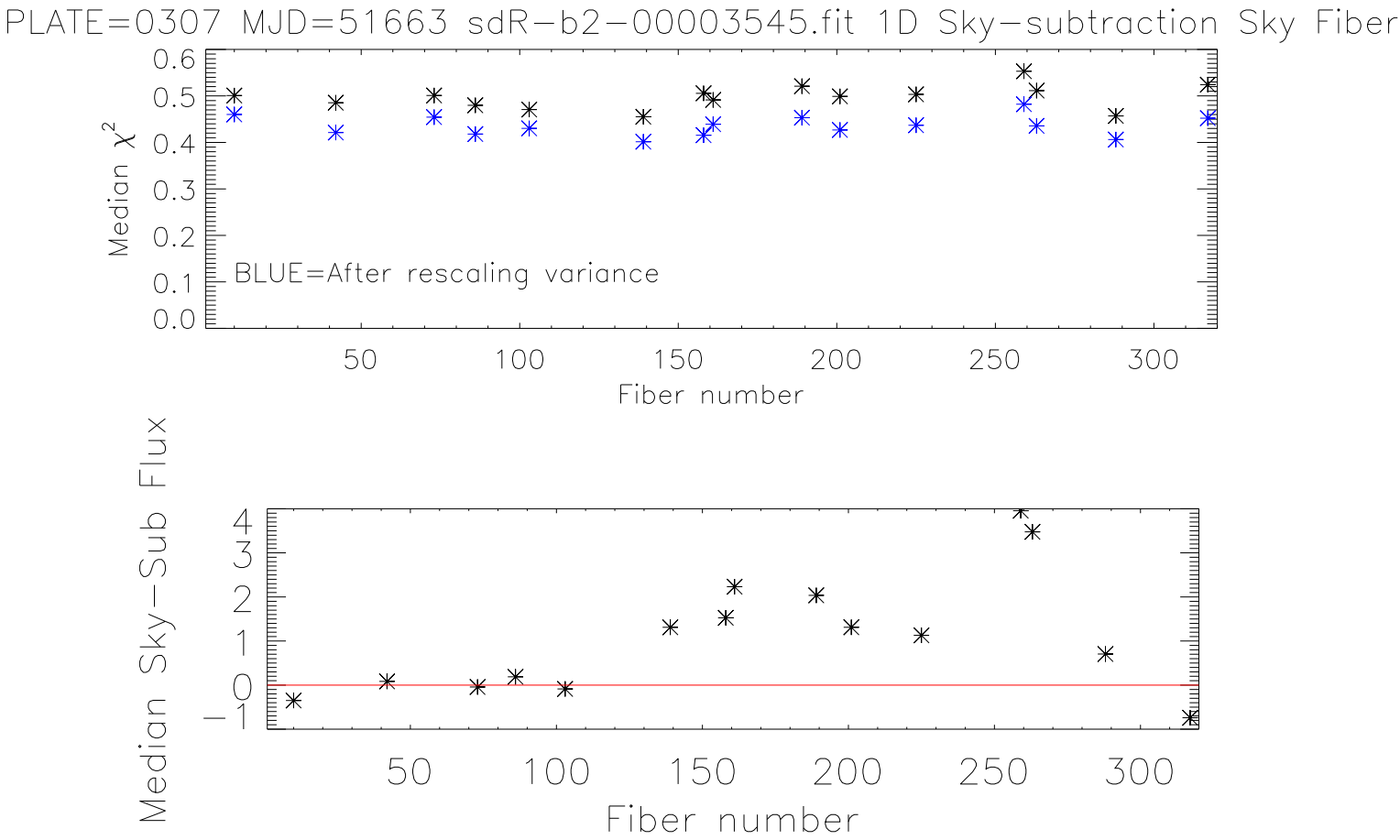

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

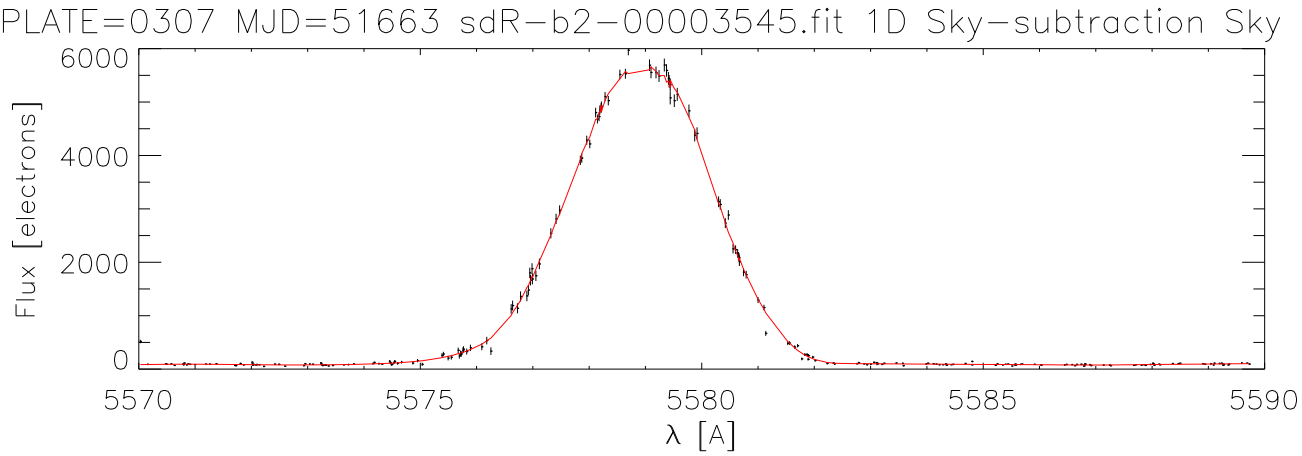

4046.5600
nfib1 16
nfib2 16
stdev 0.077
extra 0.05
4358.3300
nfib1 16
nfib2 16
stdev 0.057
extra −0.15
5460.9400
nfib1 16
nfib2 16
stdev 0.035
extra 0.03
5577.3390
nfib1 16
nfib2 16
stdev 0.017
extra 0.04
5889.9500
nfib1 16
nfib2 16
stdev 0.040
extra 0.14
5895.9240
nfib1 16
nfib2 16
stdev 0.052
extra 0.15
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

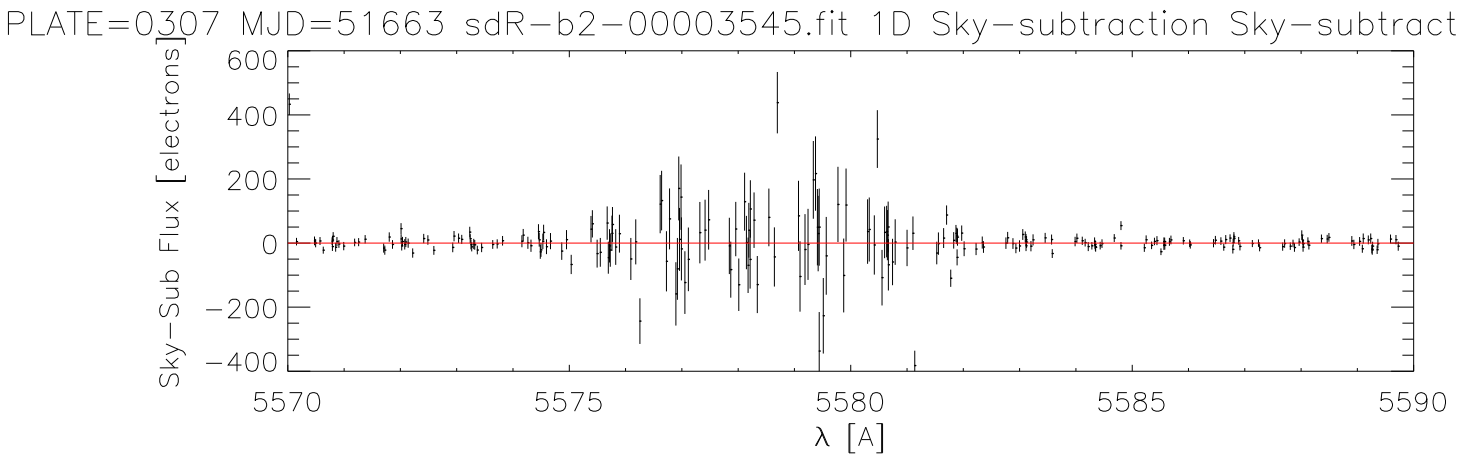

sky shift, pixels
0.1
0.0
−0.1
−0.2
3500
4000
4500
5000
5500
6000
6500

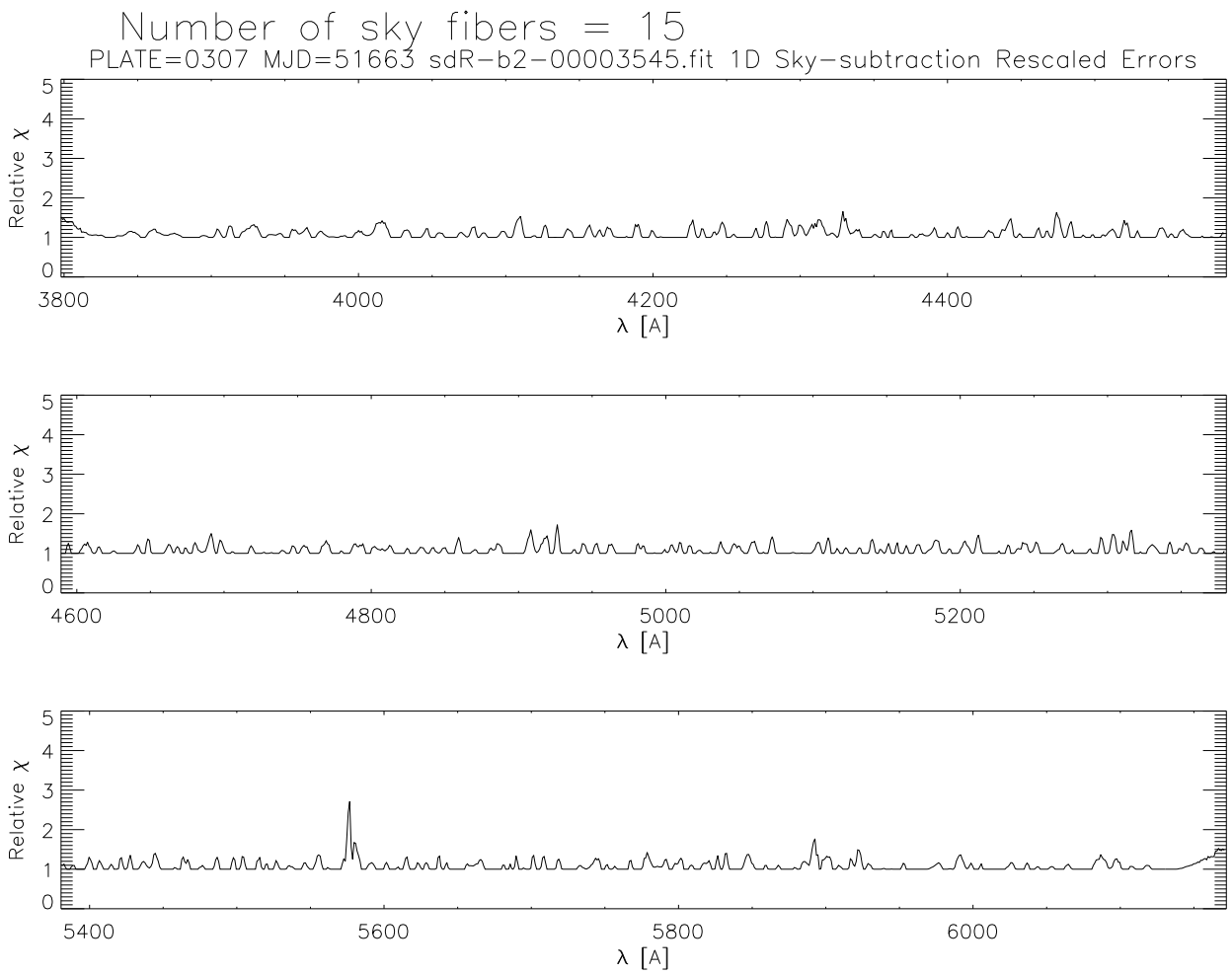

PLATE=0307 MJD=51663 Smooth superflat for sdR-b2-00003545.fit
1.5
1.0
0.5
0.0
1.01
1.00
0.99
0.98
0.97
4000
4500
5000
5500
6000
Wavelength (Å)

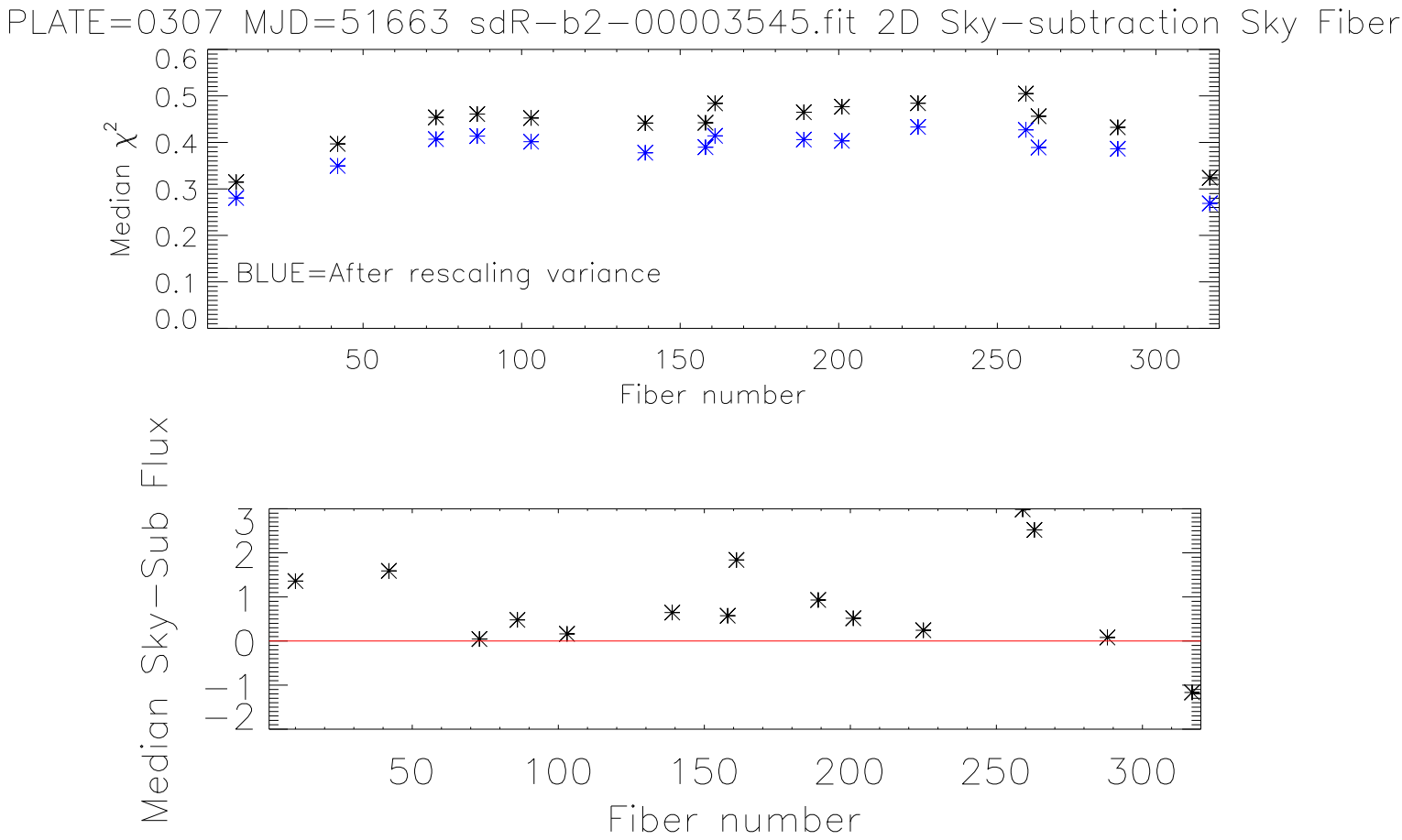
es= −0.0000

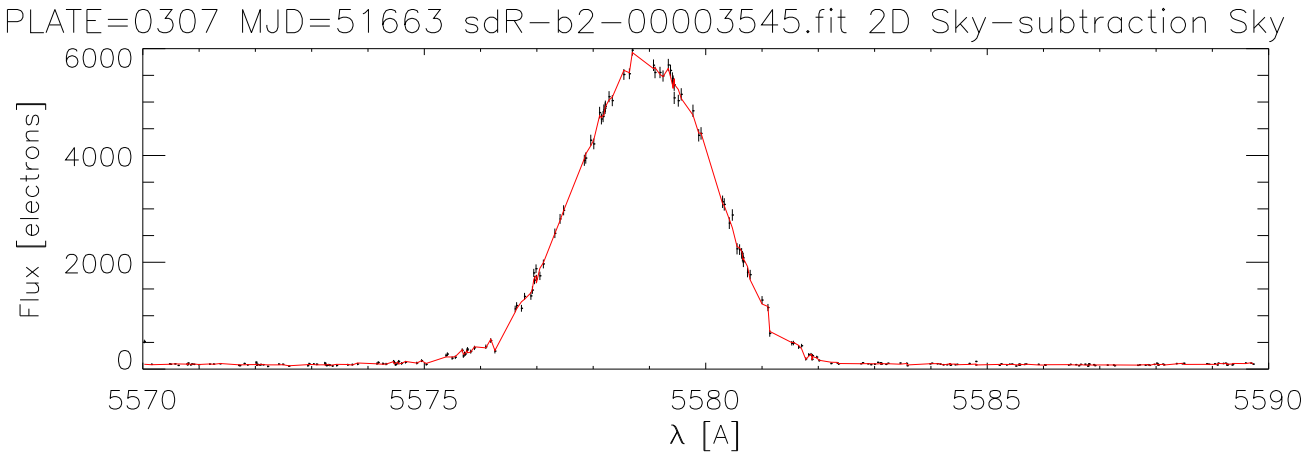

PLATE=0307 MJD=51663 sdR-b2-00003545.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

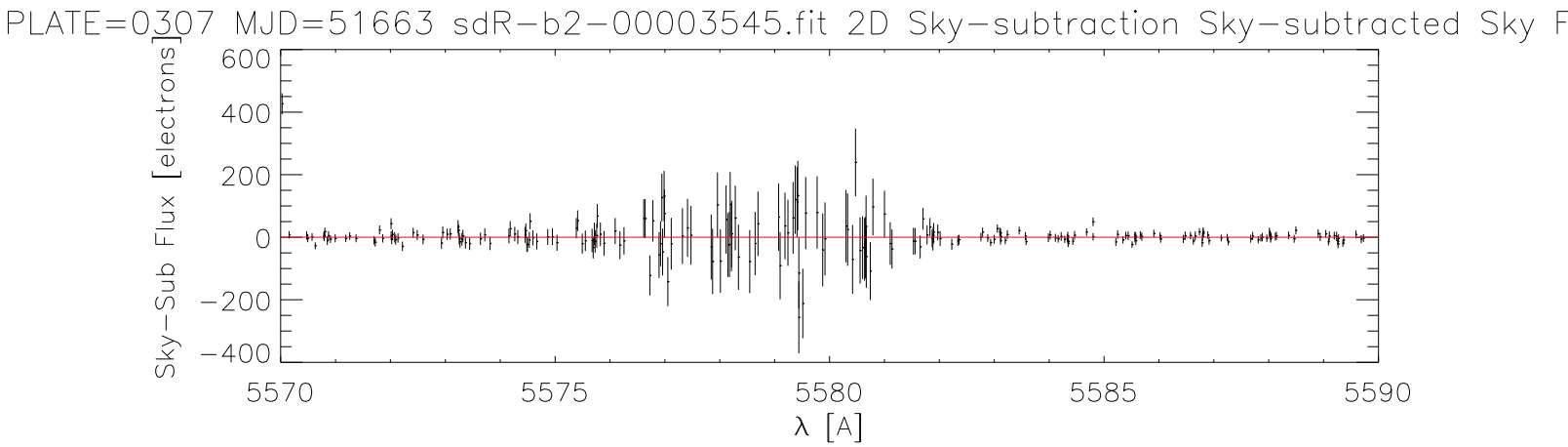

PLATE=0307 MJD=51663 sdR-b2-00003545.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

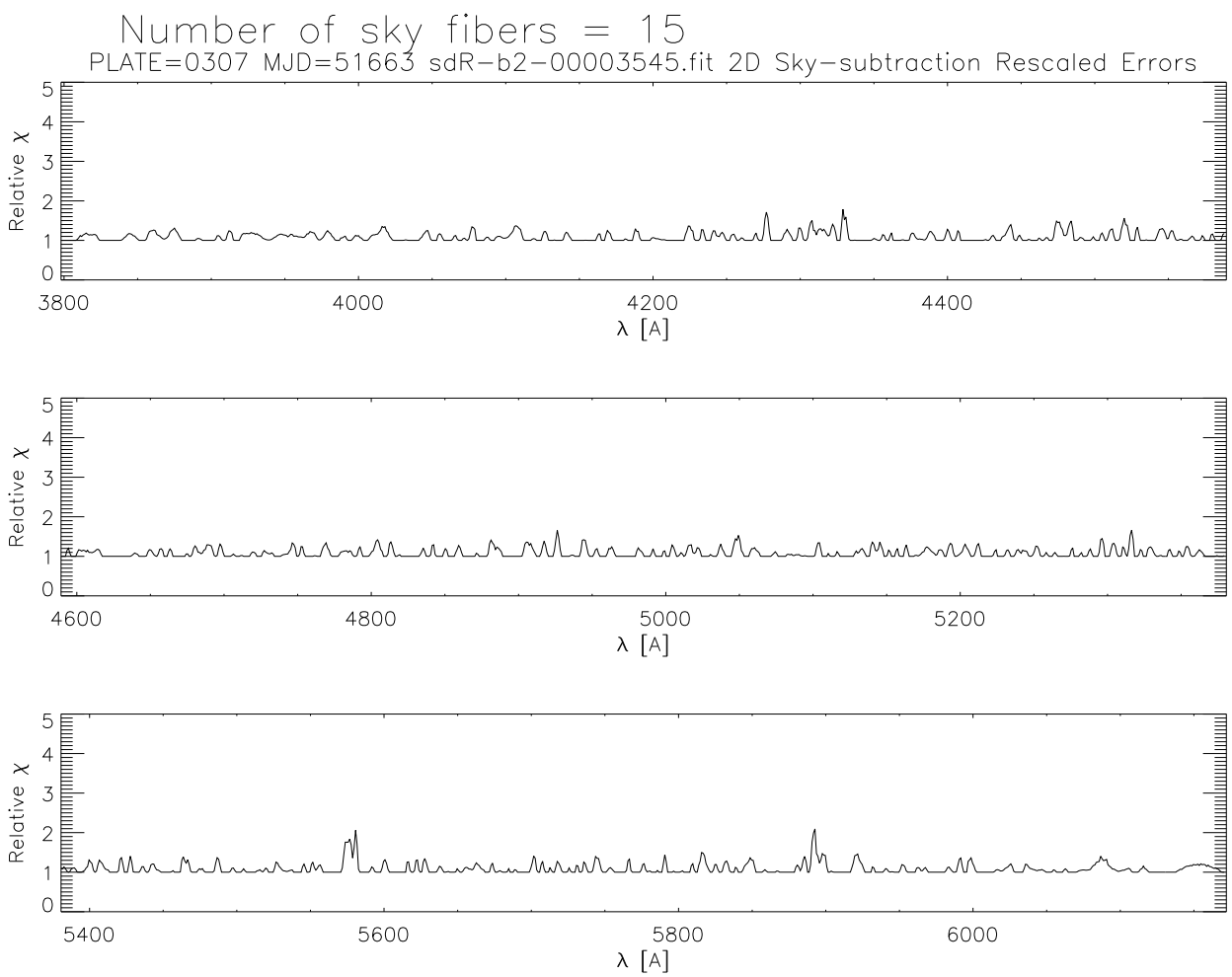

PLATE=0307 MJD=51663 sdR-b2-00003545.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
−200
−400
5570
5575
5580
5585
5590
λ [A]

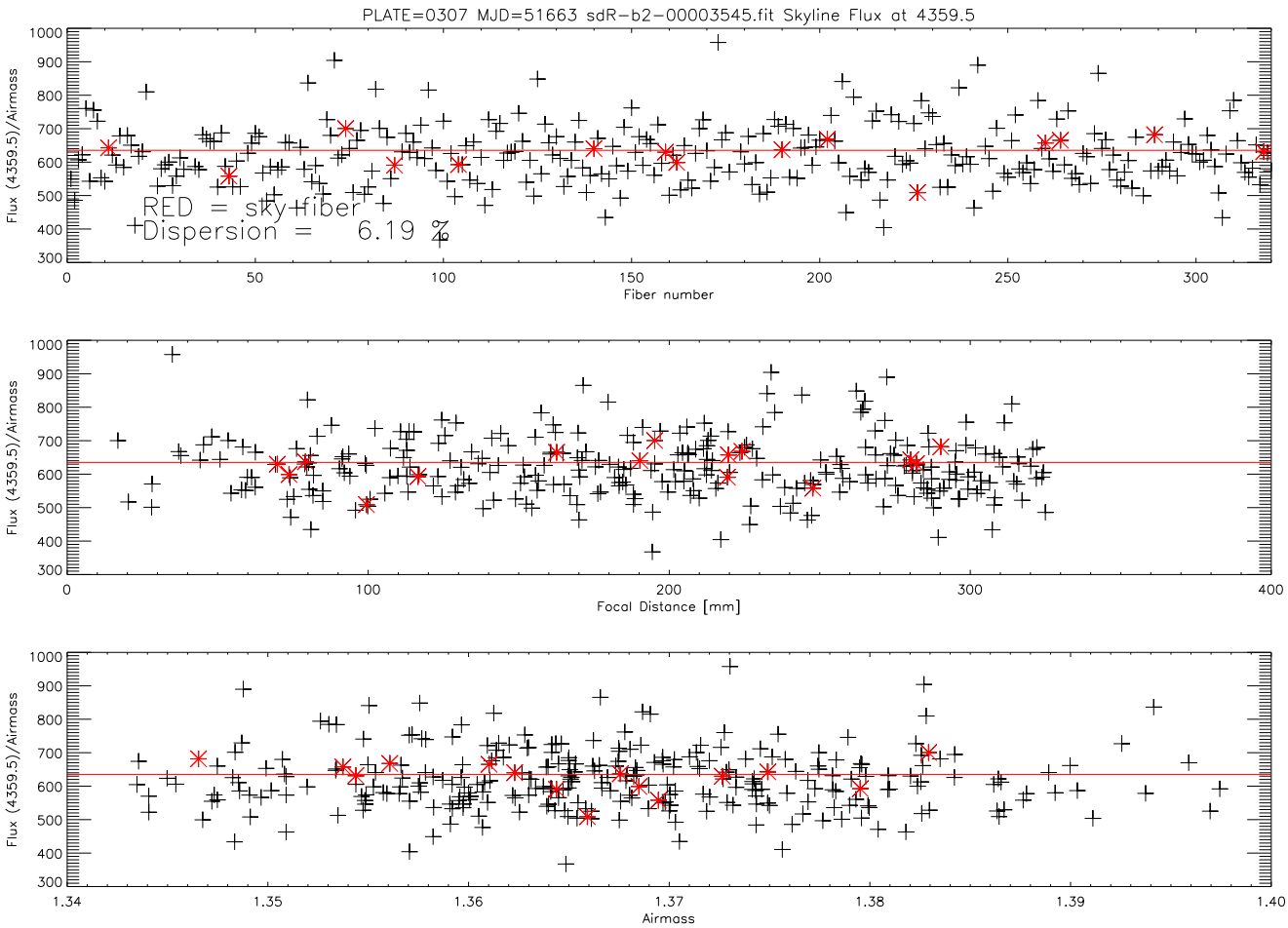

Number of sky fibers = 15
PLATE=0307 MJD=51663 sdR-b2-00003545.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

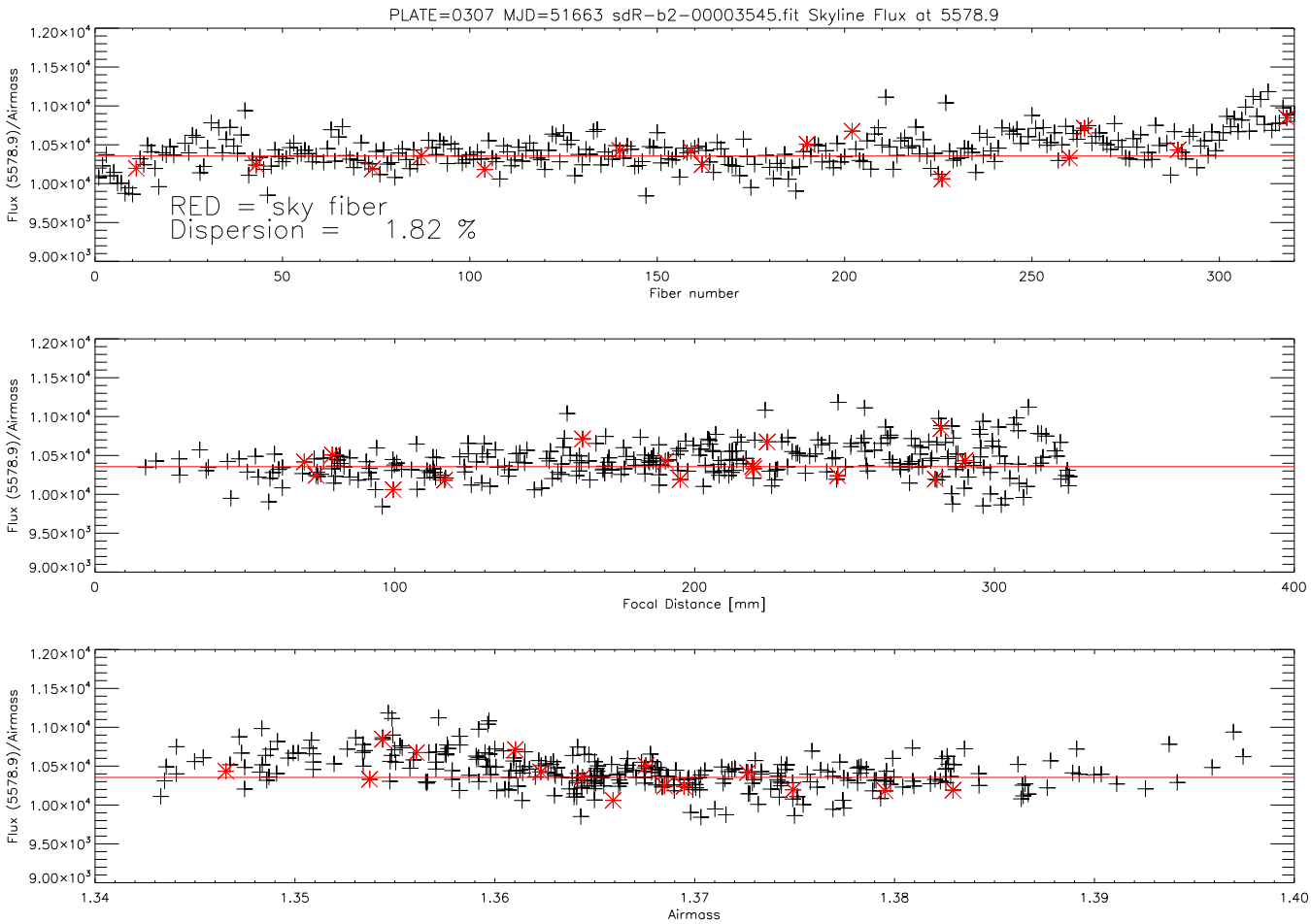

PLATE=0307 MJD=51663 sdR-b2-00003545.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

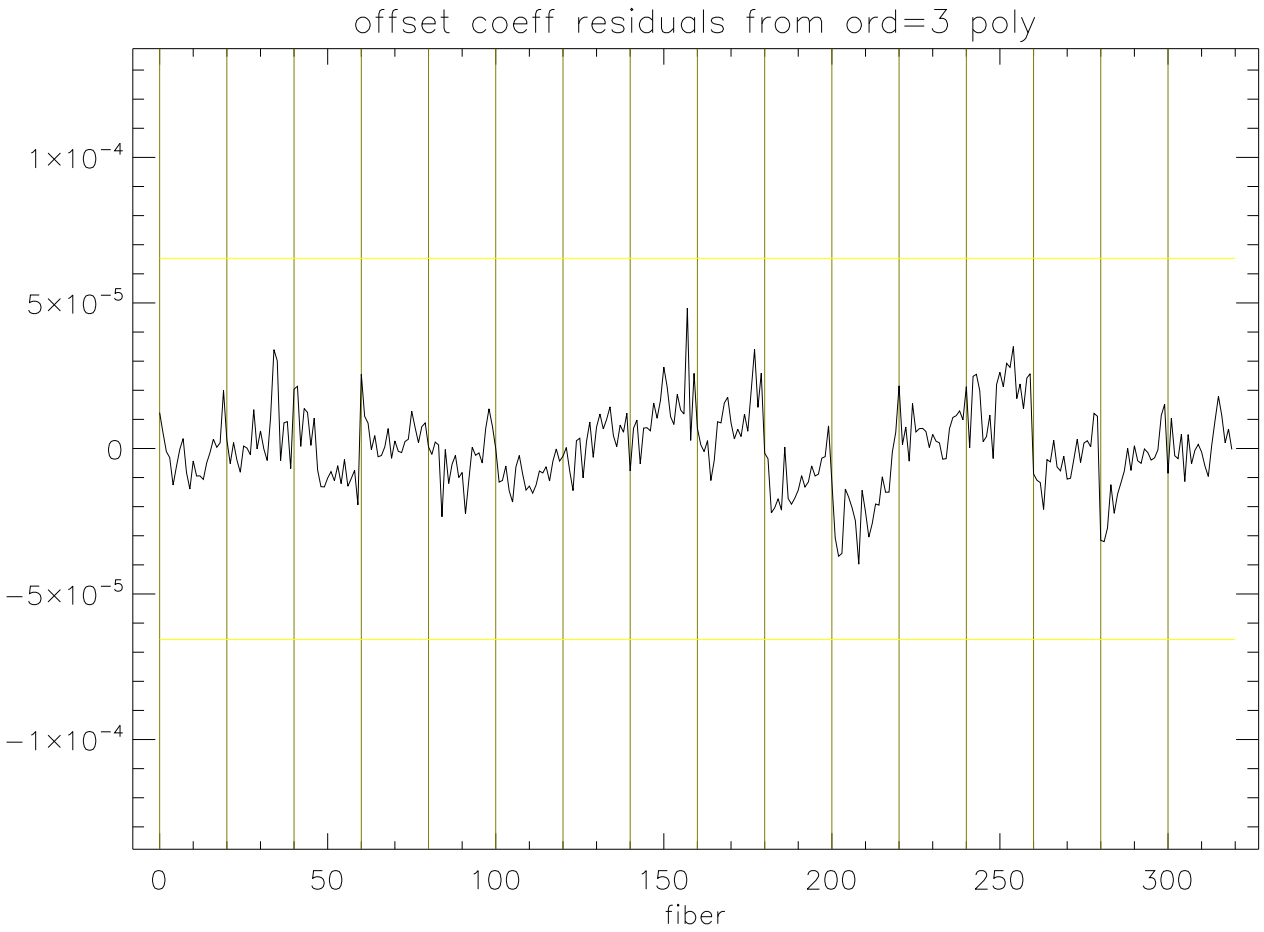

PLATE=0307 MJD=51663 sdR-b2-00003545.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

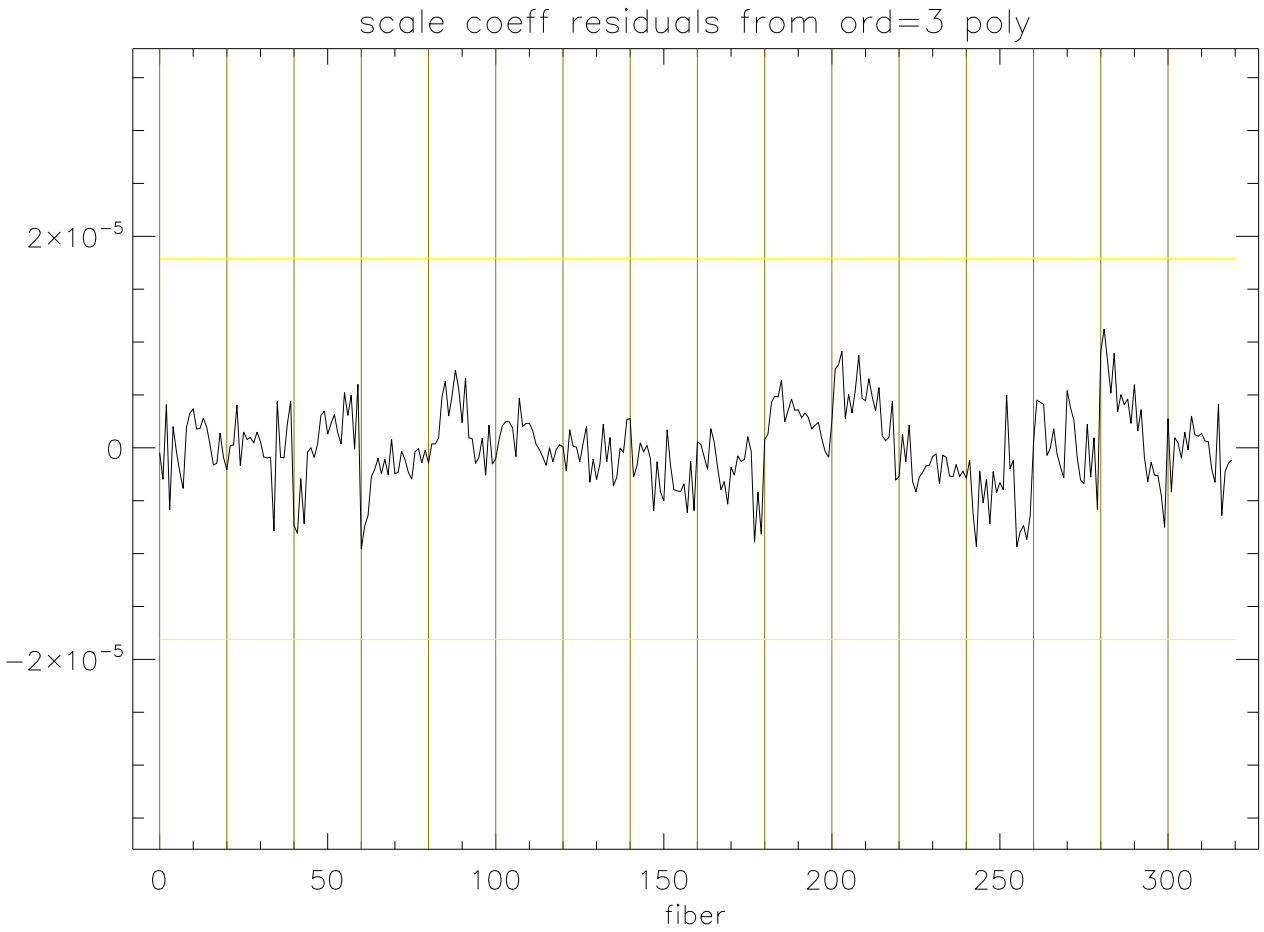

PLATE=0307 MJD=51663 sdR-b2-00003545.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

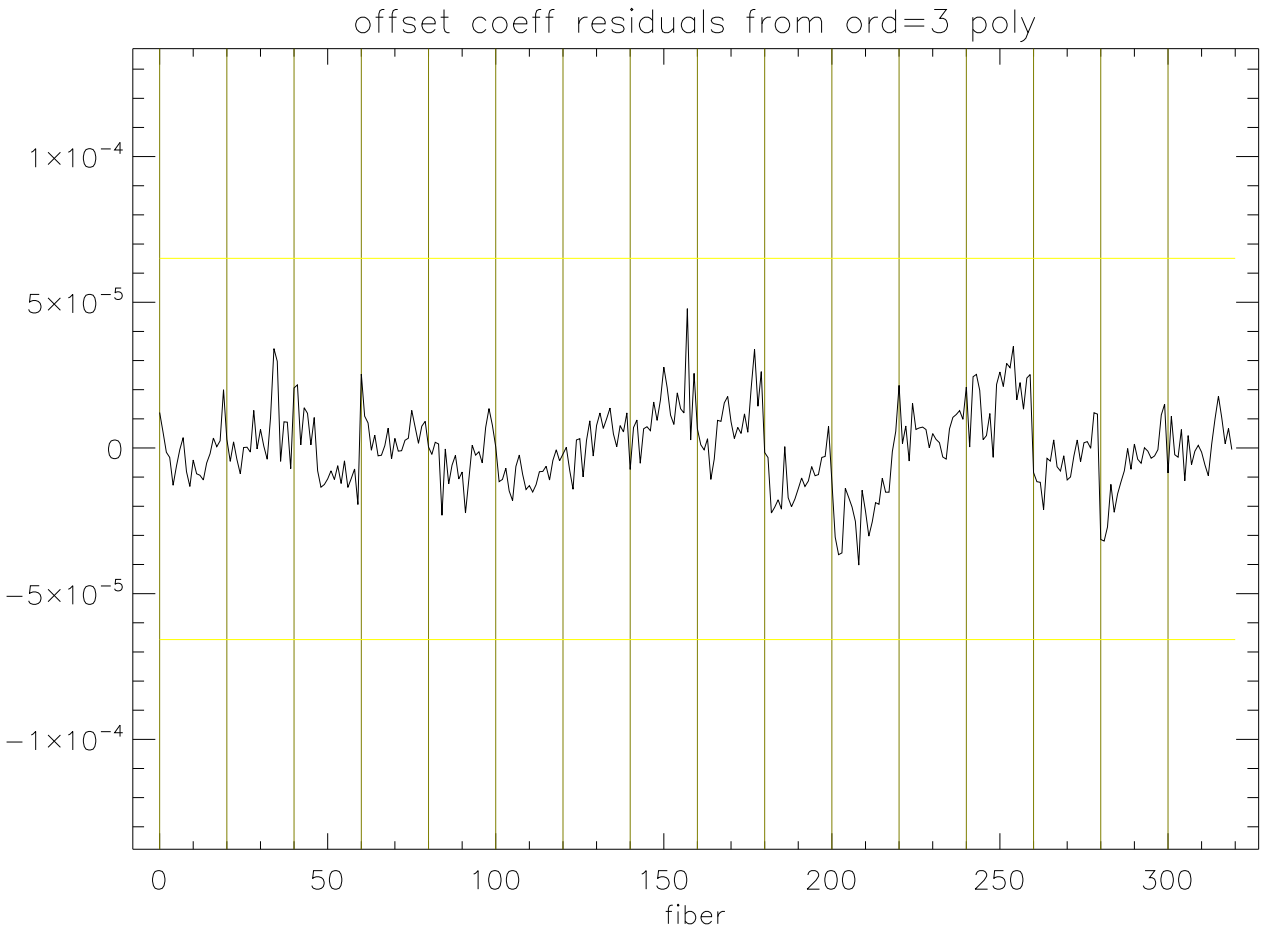

Number of sky fibers = 15
PLATE=0307 MJD=51663 sdR-b2-00003545.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

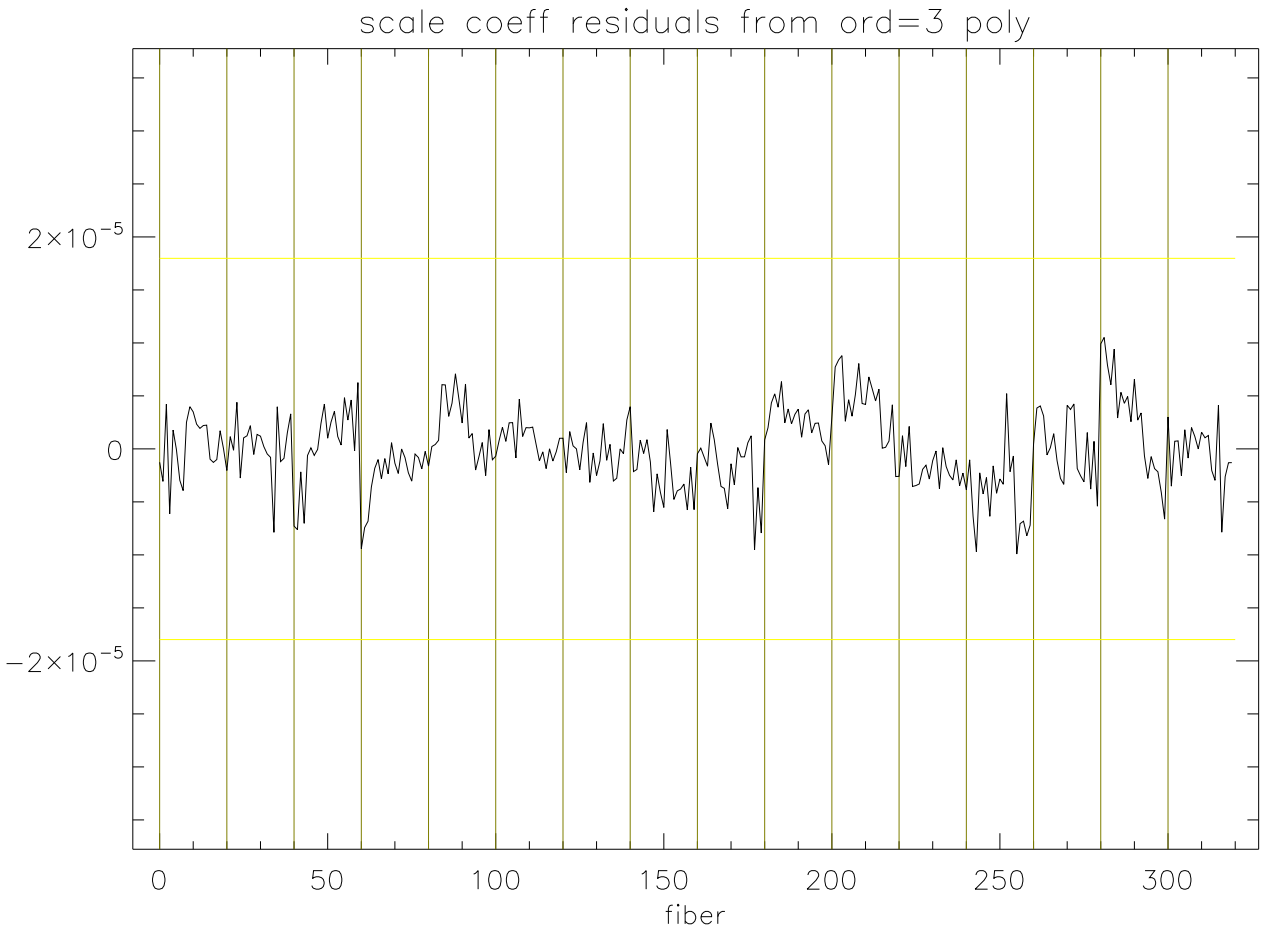

PLATE=0307 MJD=51663 sdR-b2-00003545.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 6.19 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

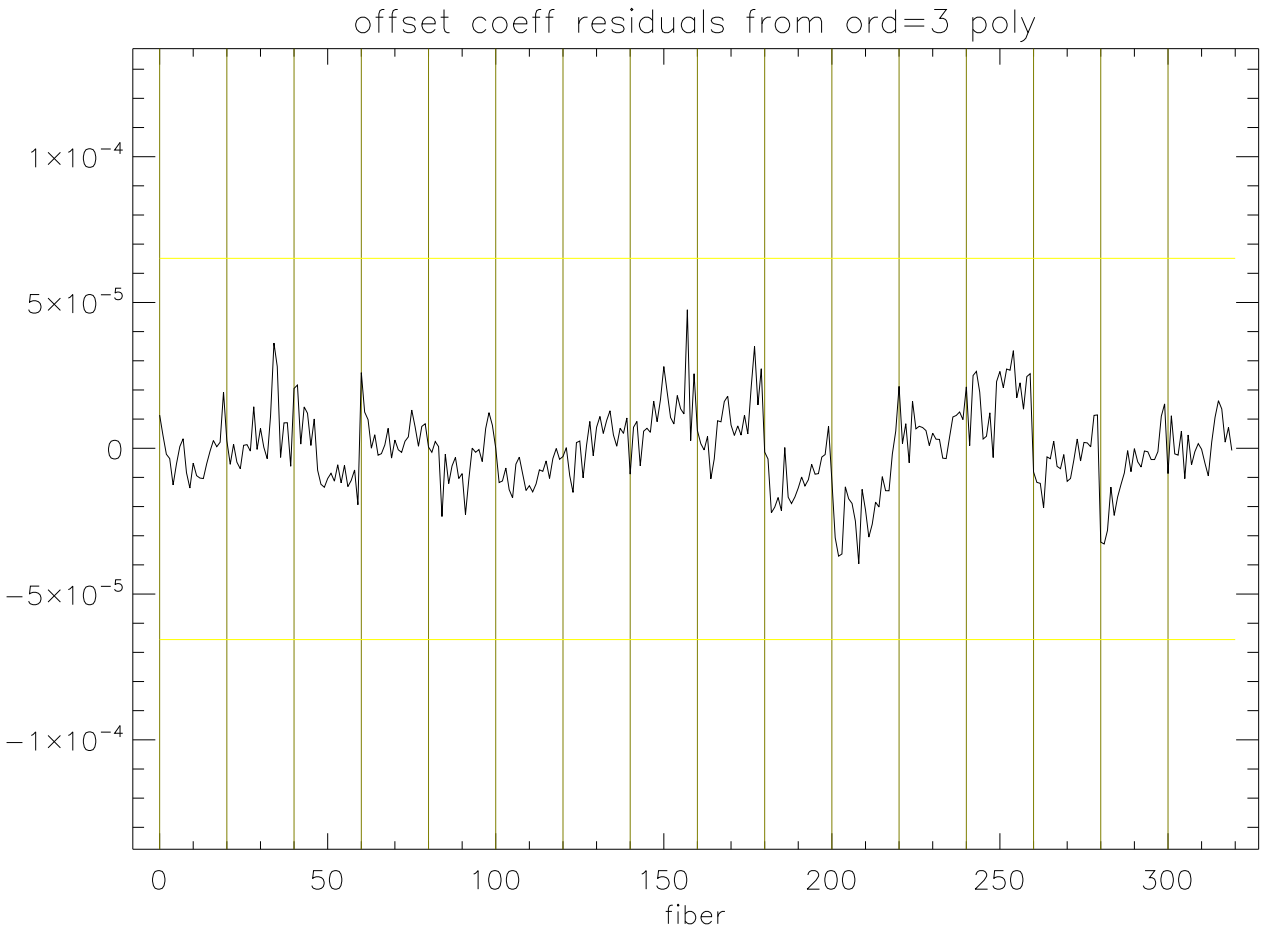

PLATE=0307 MJD=51663 sdR-b2-00003545.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.82 %
Fiber number
Focal Distance [mm]
Airmass

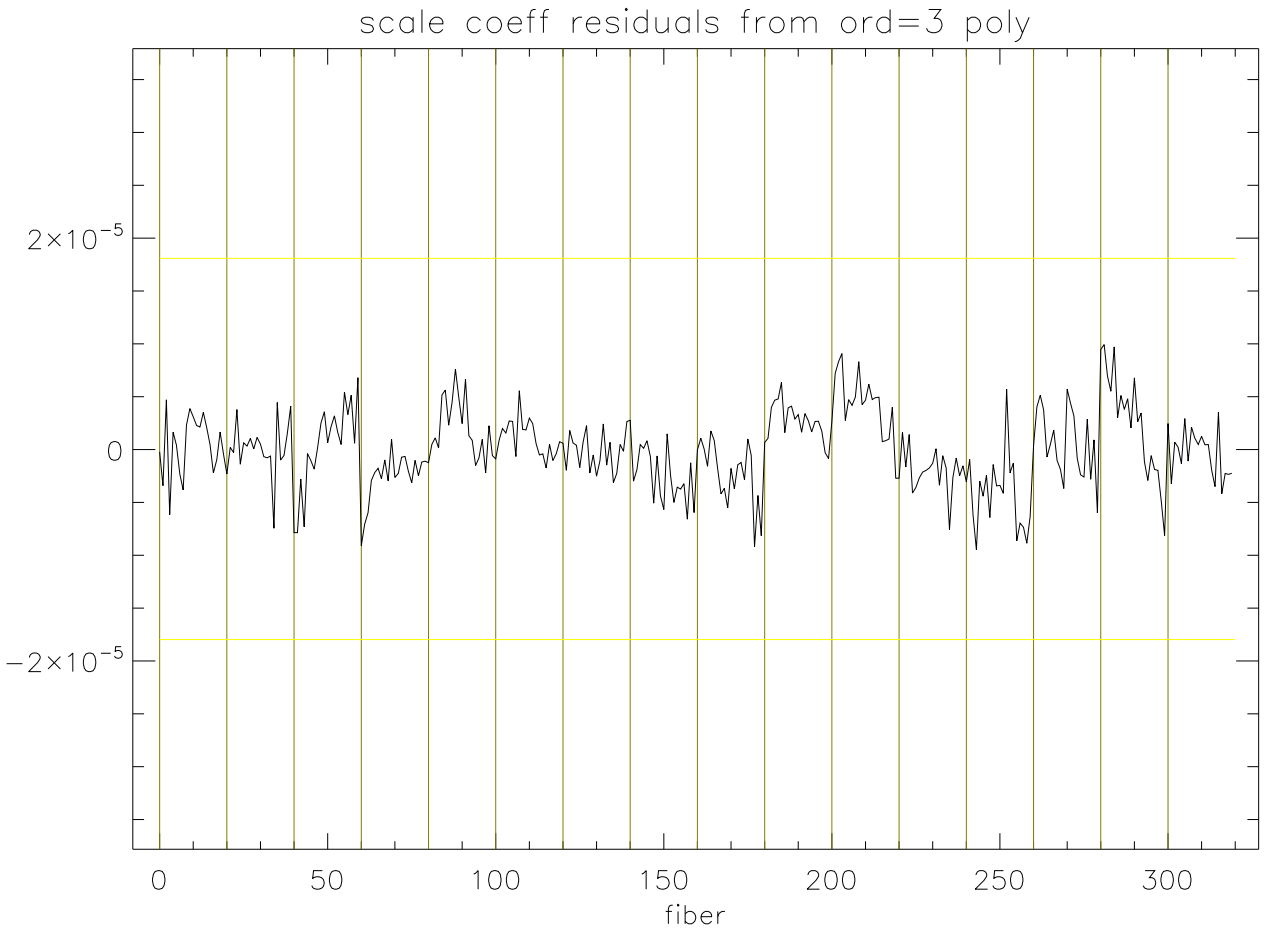

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

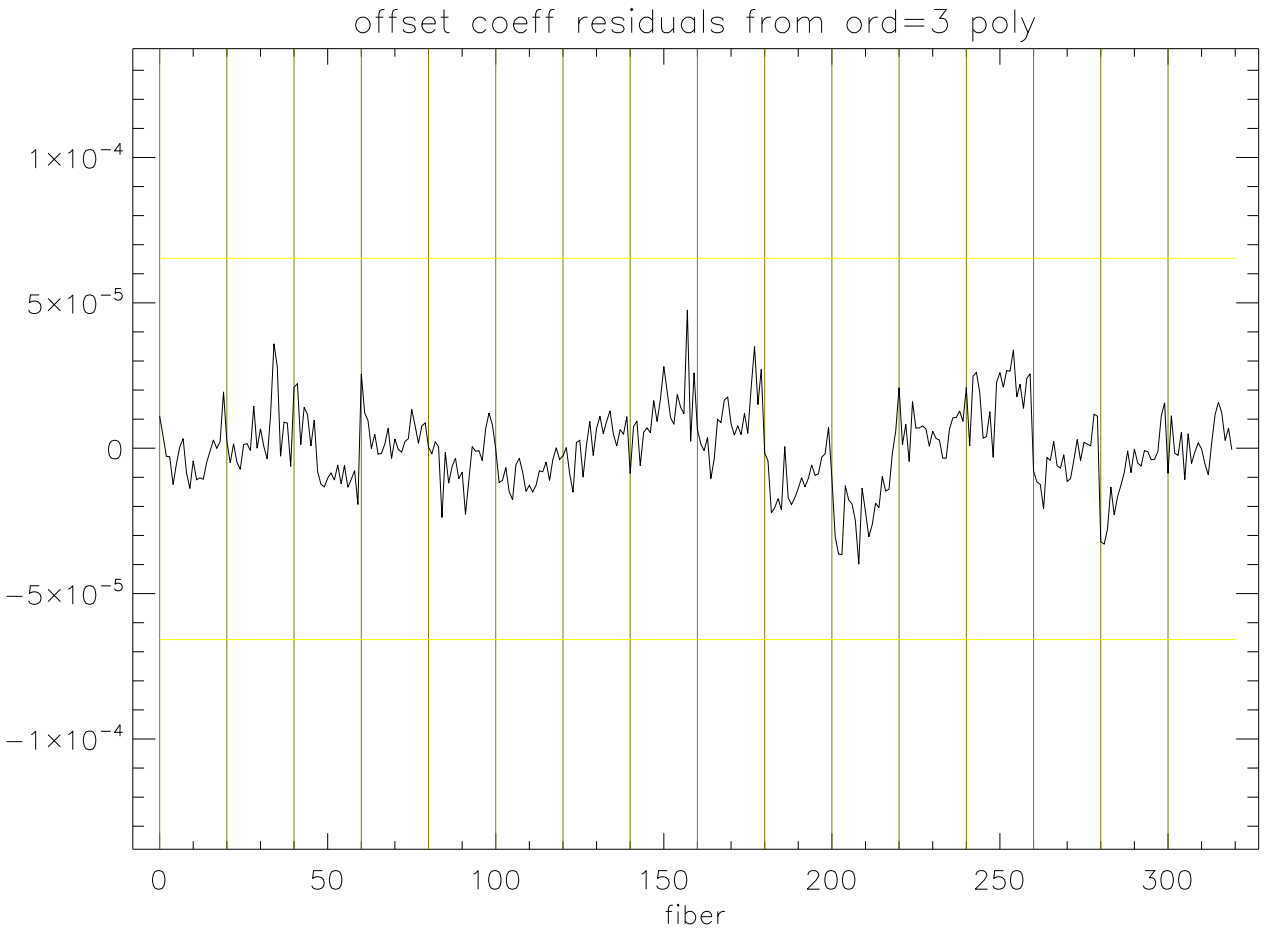

scale coeff residuals from ord=3 poly
2×10^-5
0
−2×10^-5
0
50
100
150
200
250
300
fiber

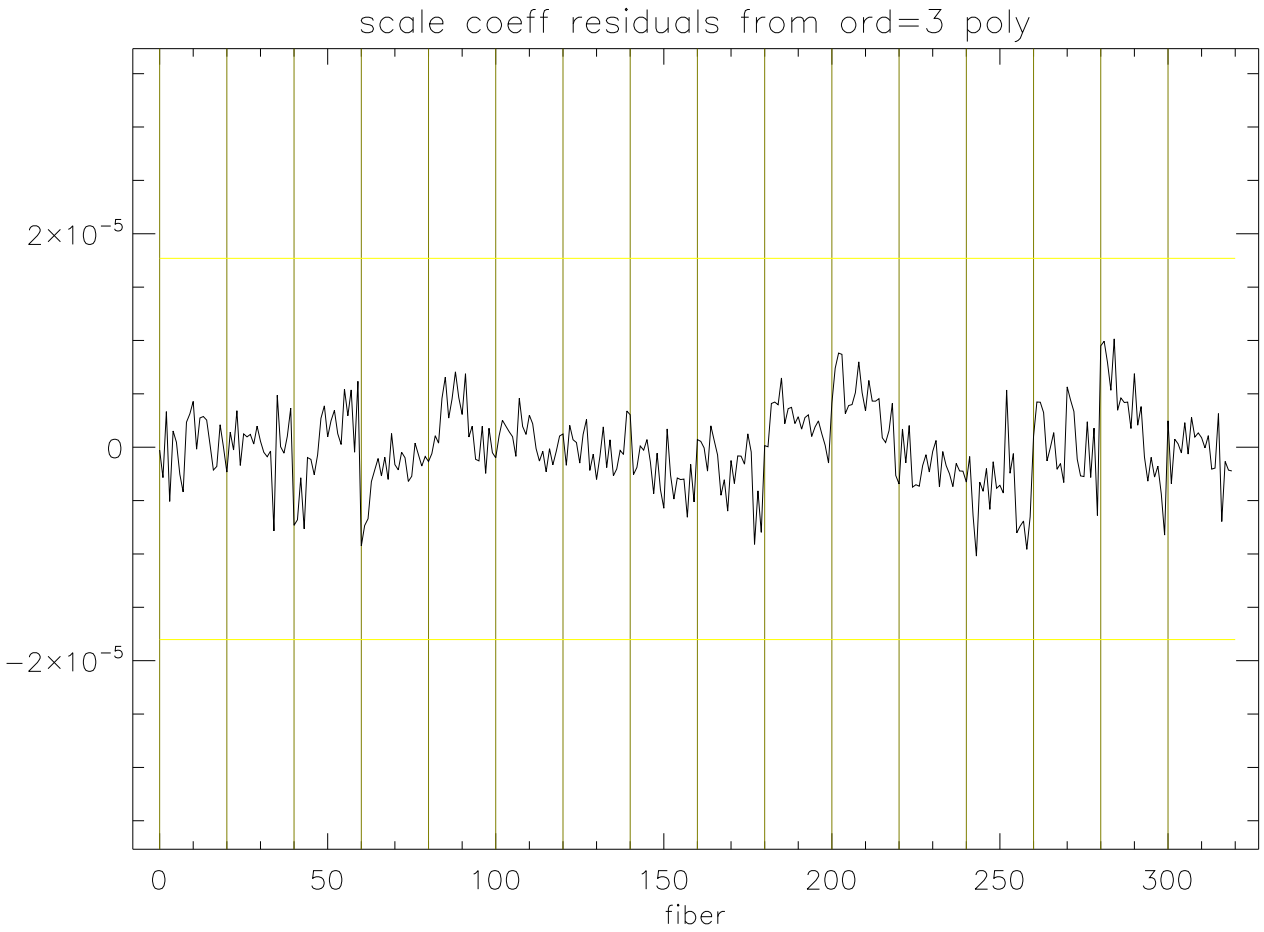

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

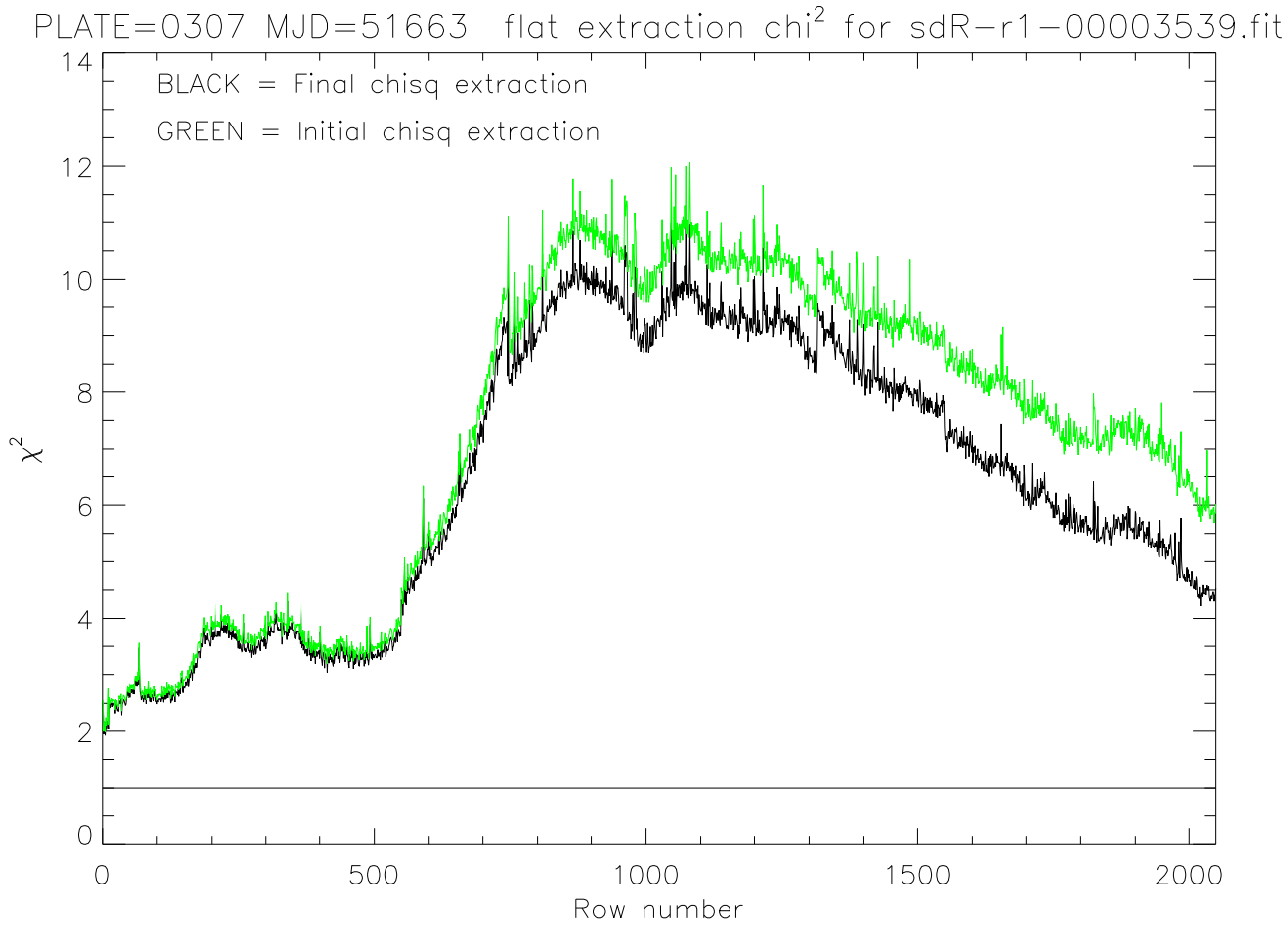

scale coeff residuals from ord=3 poly
2×10^-5
0
−2×10^-5
0
50
100
150
200
250
300
fiber

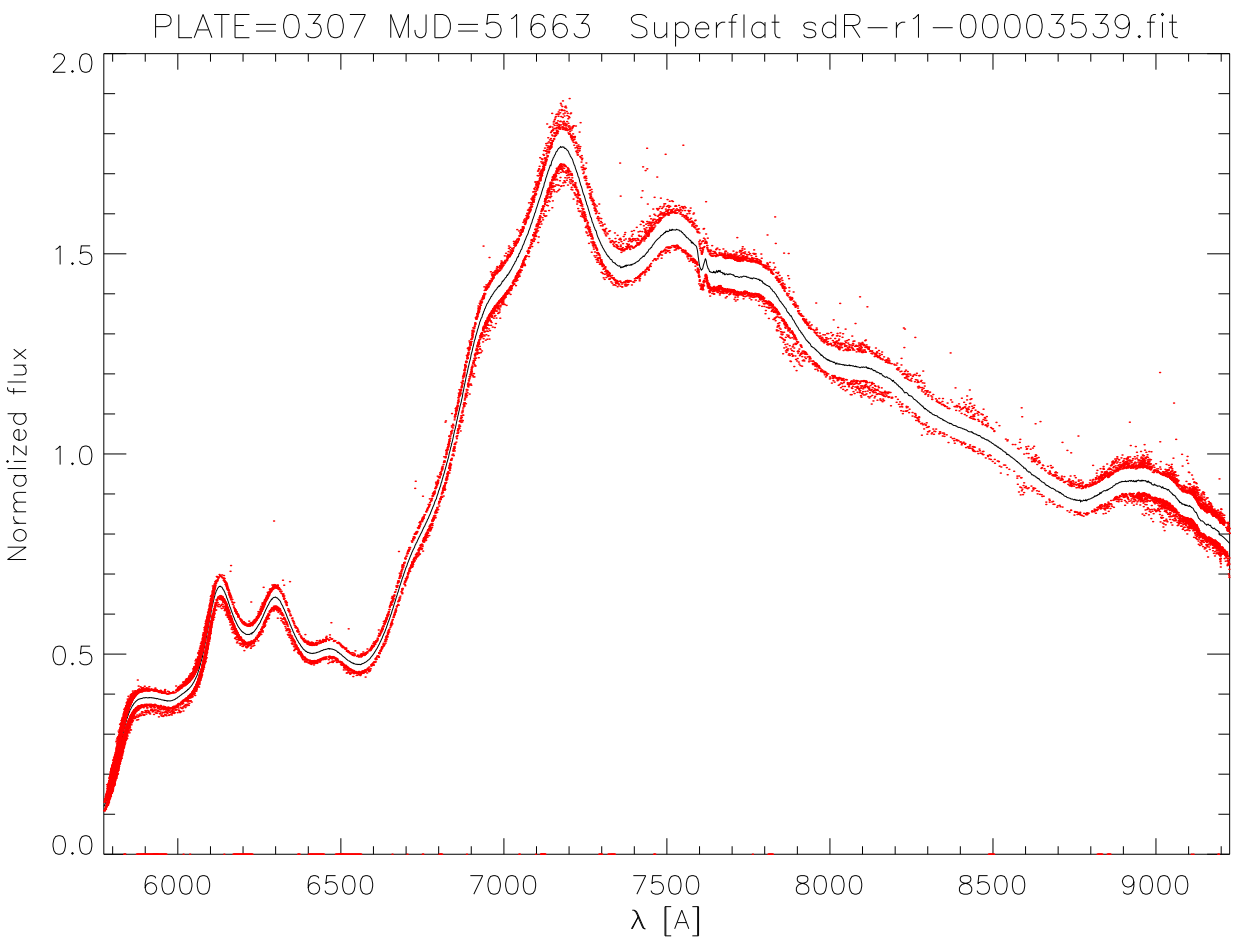

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

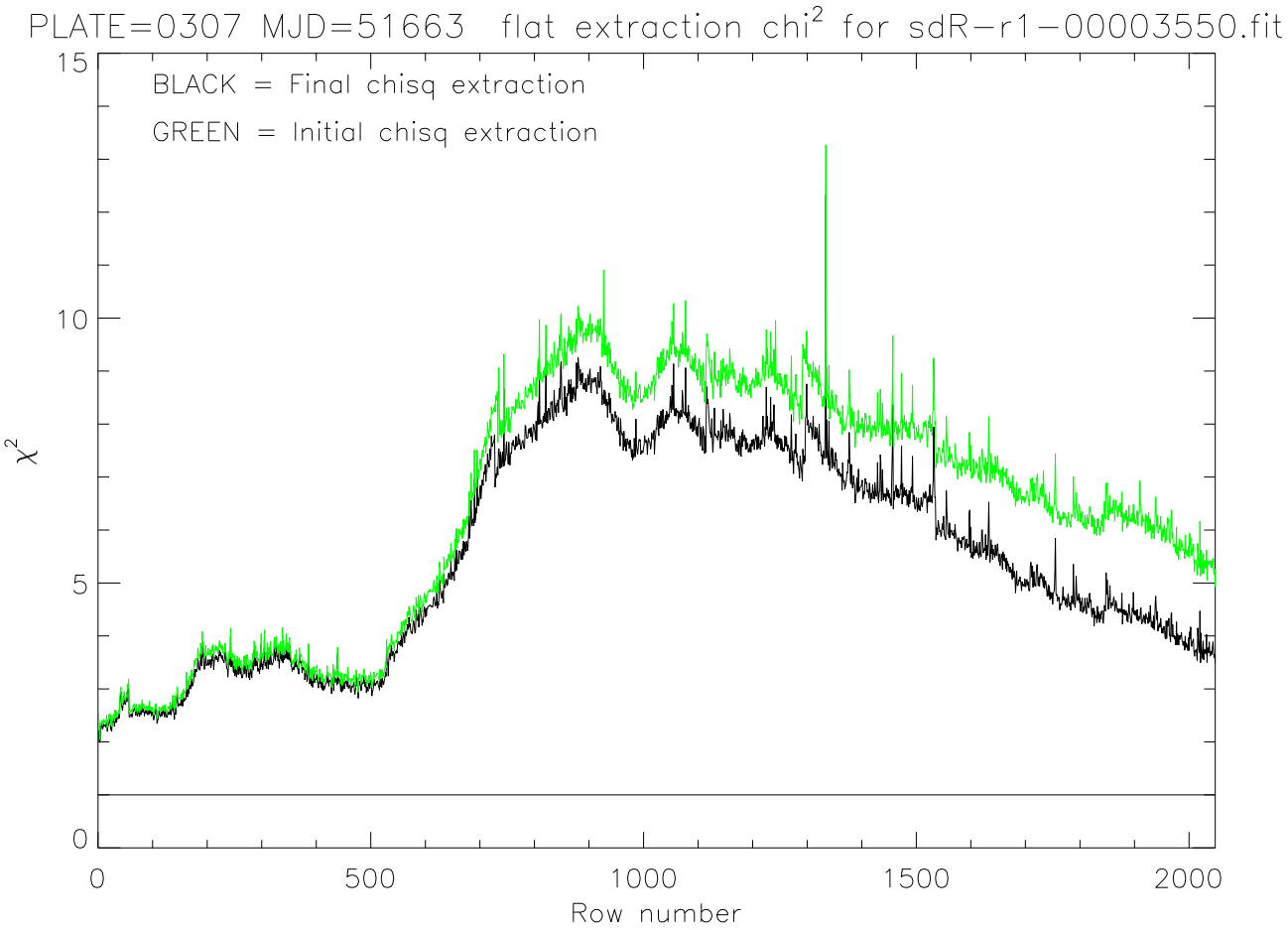

scale coeff residuals from ord=3 poly
2×10^-5
0
−2×10^-5
0
50
100
150
200
250
300
fiber

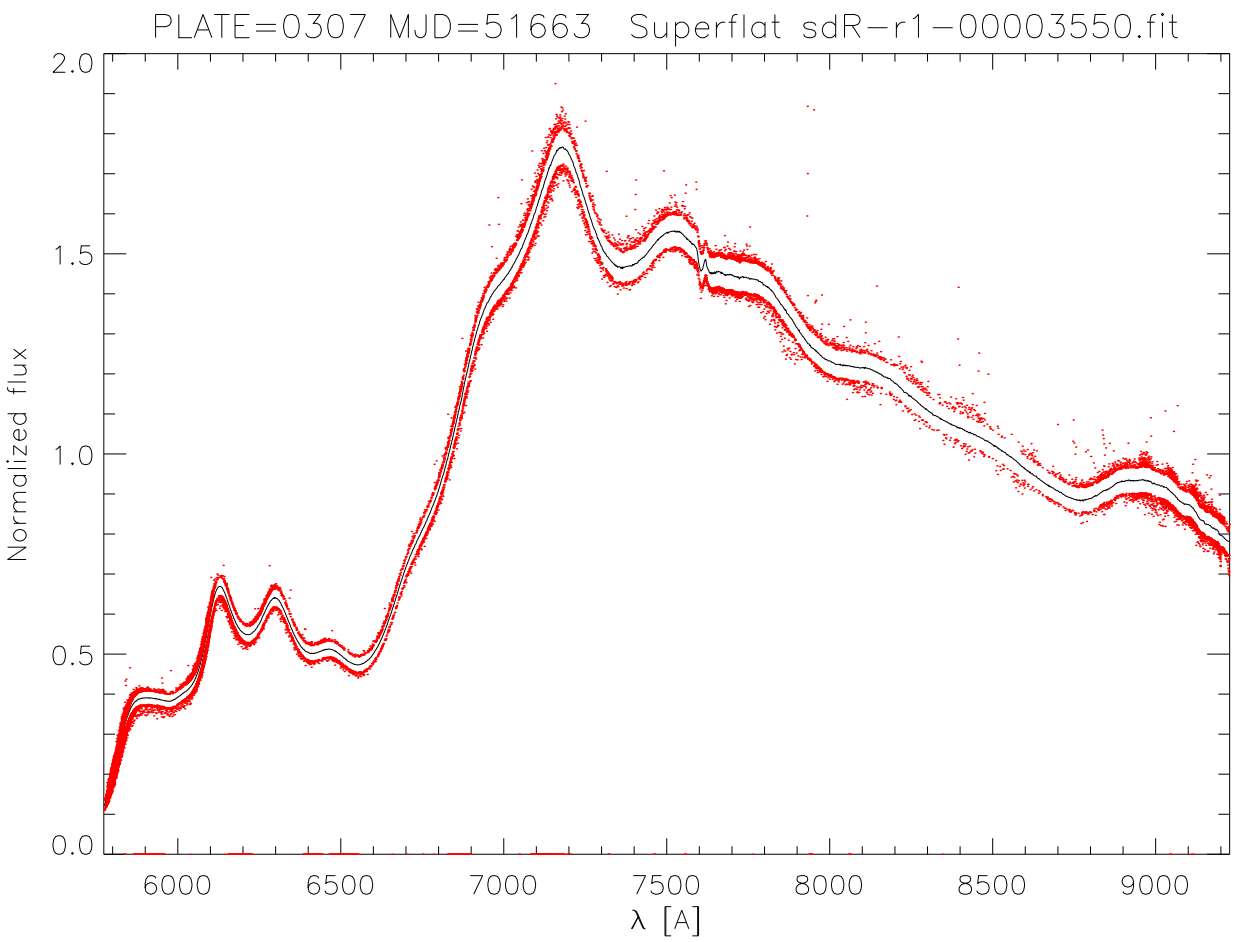

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

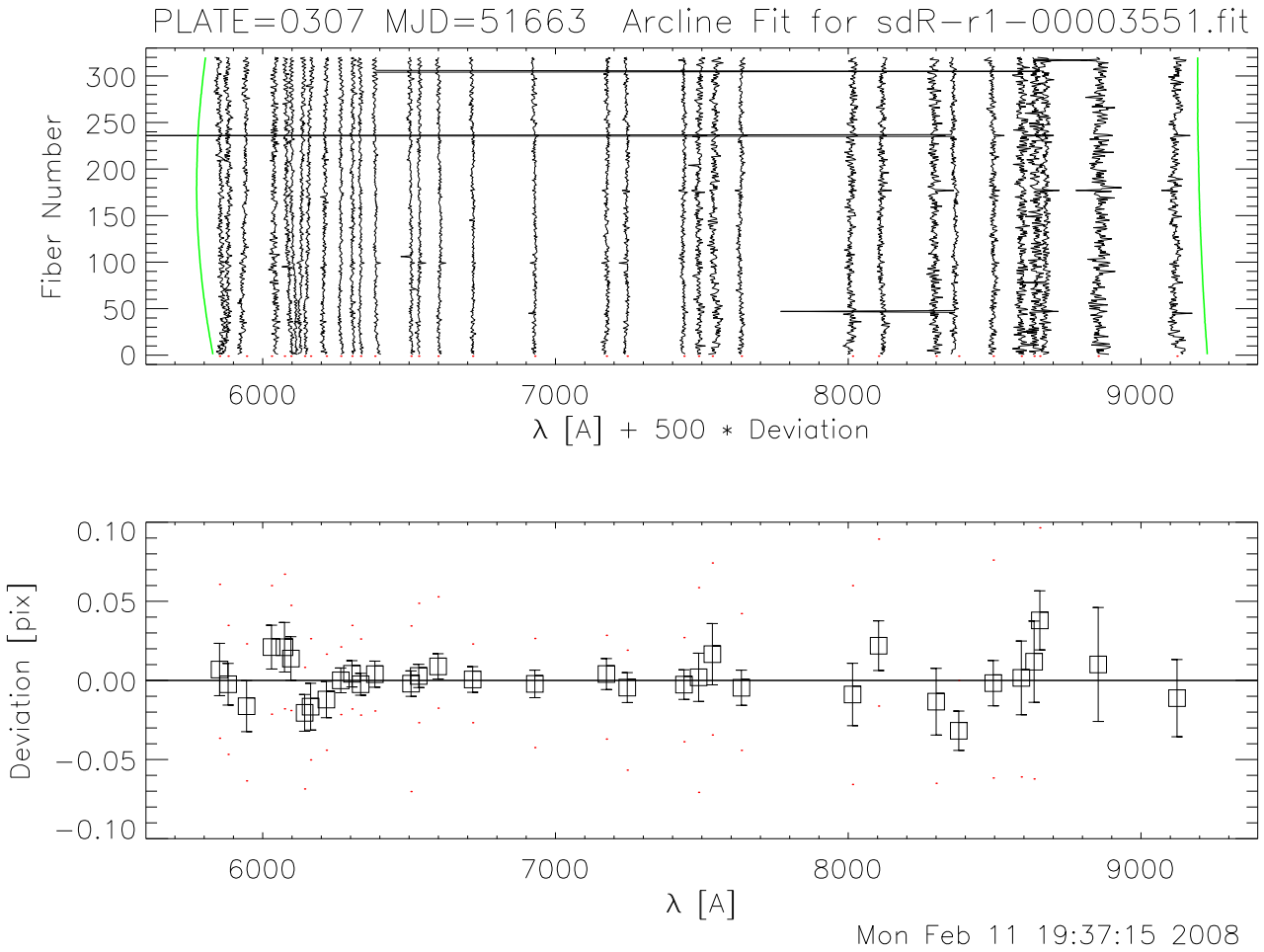

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

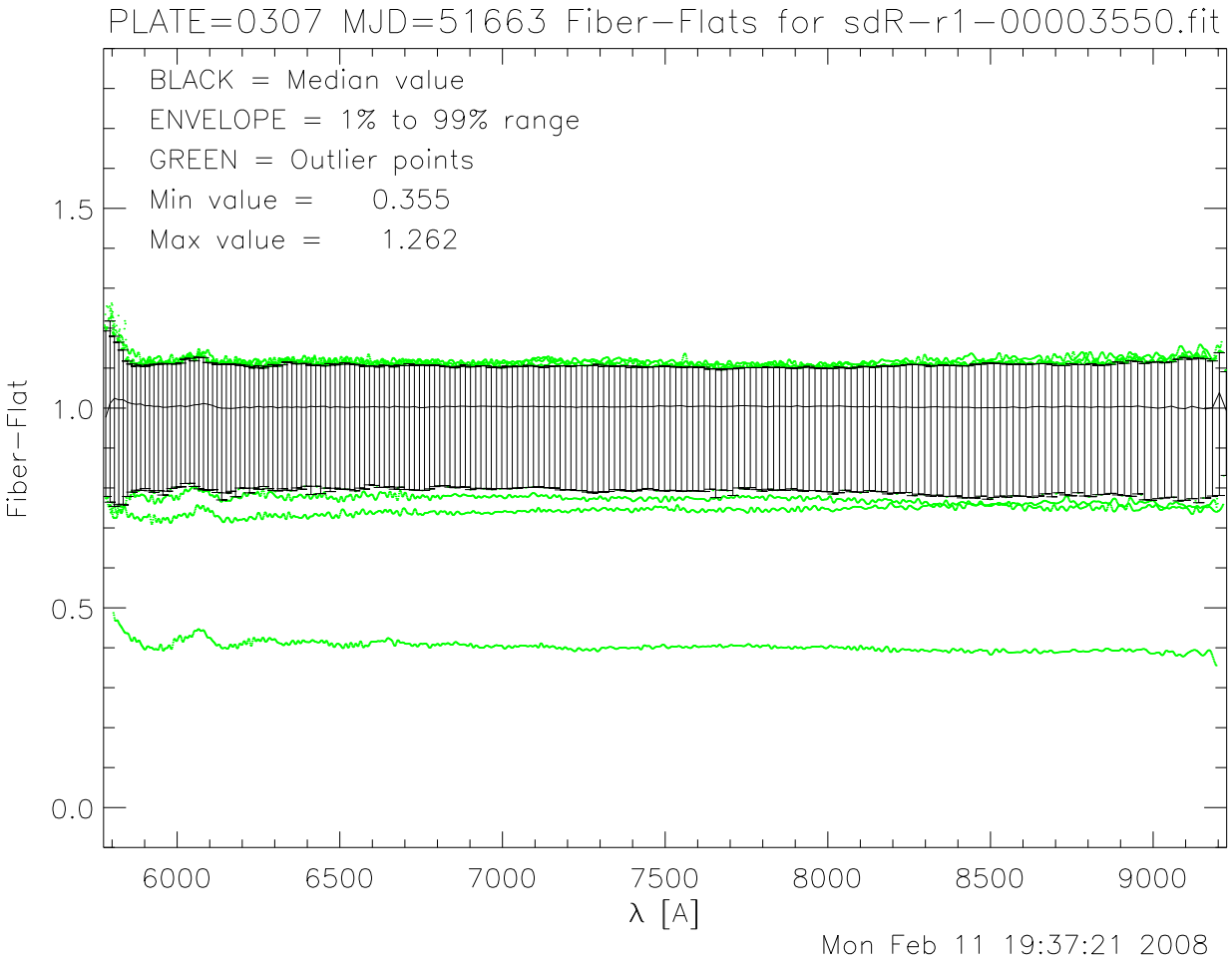

PLATE=0307 MJD=51663 flat extraction chi^2 for sdR−r1−00003539.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
14
0
500
1000
1500
2000

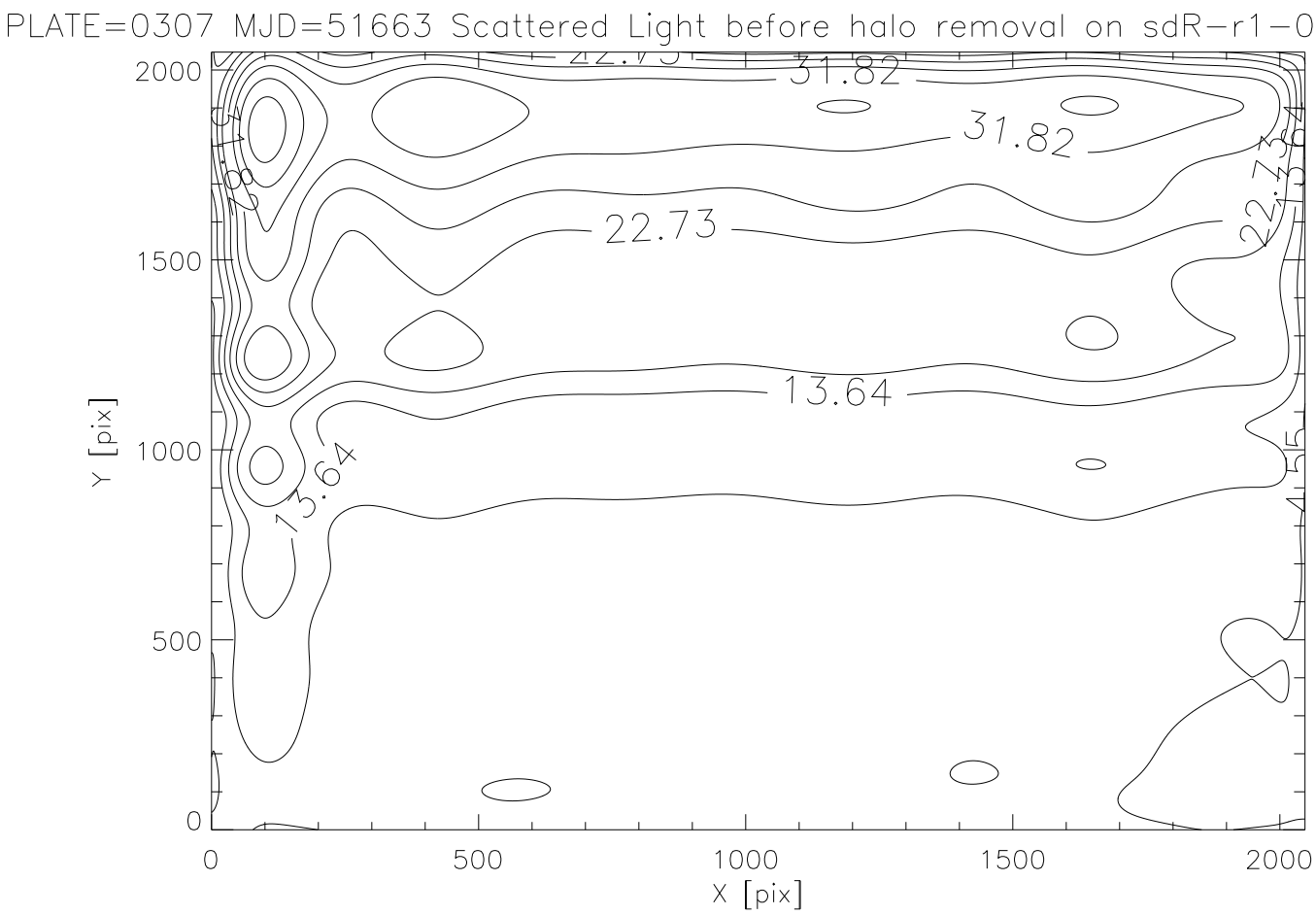

PLATE=0307 MJD=51663 Superflat sdR-r1-00003539.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

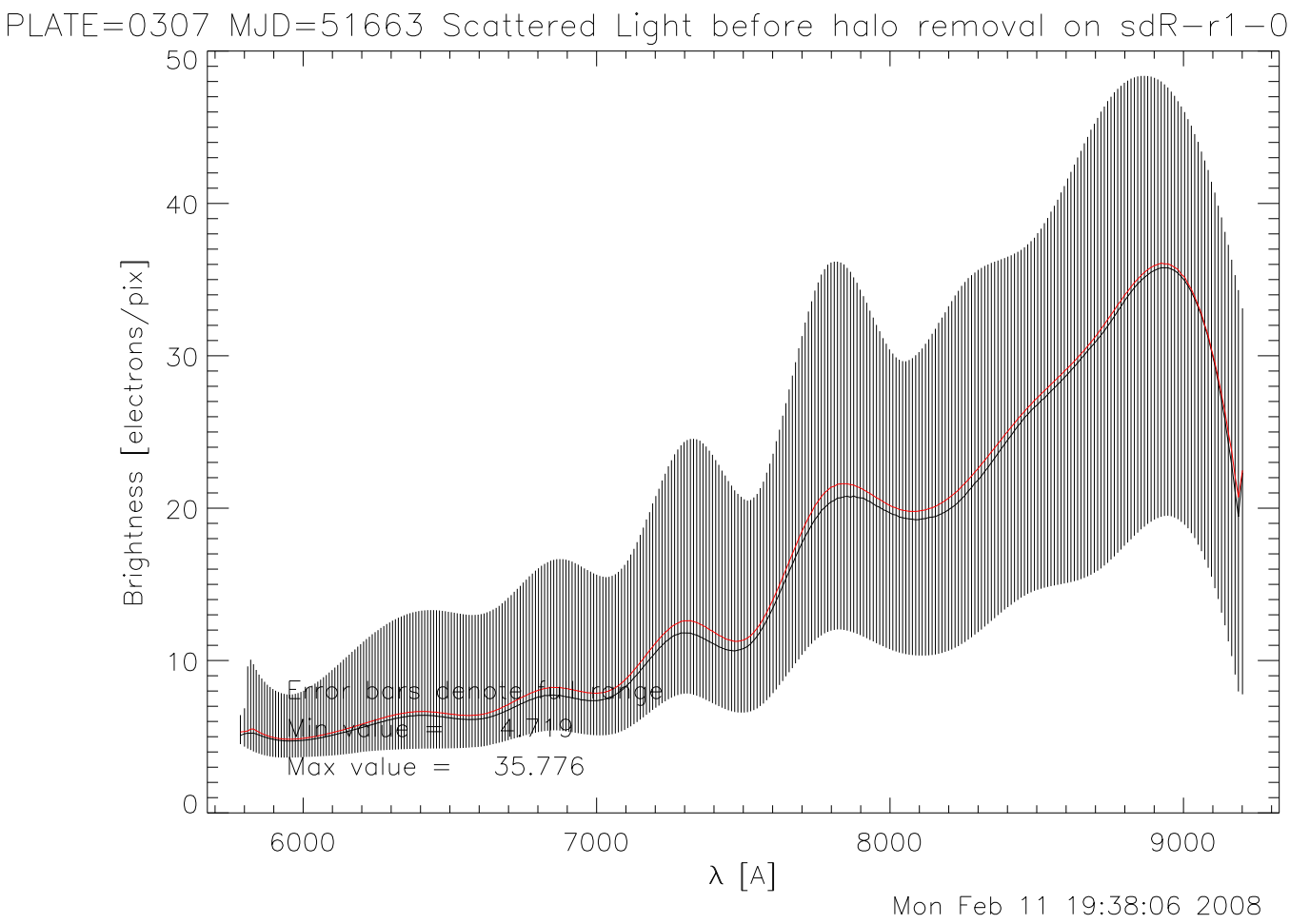

PLATE=0307 MJD=51663 flat extraction chi^2 for sdR−r1−00003550.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
15
10
5
0
0
500
1000
1500
2000
Row number

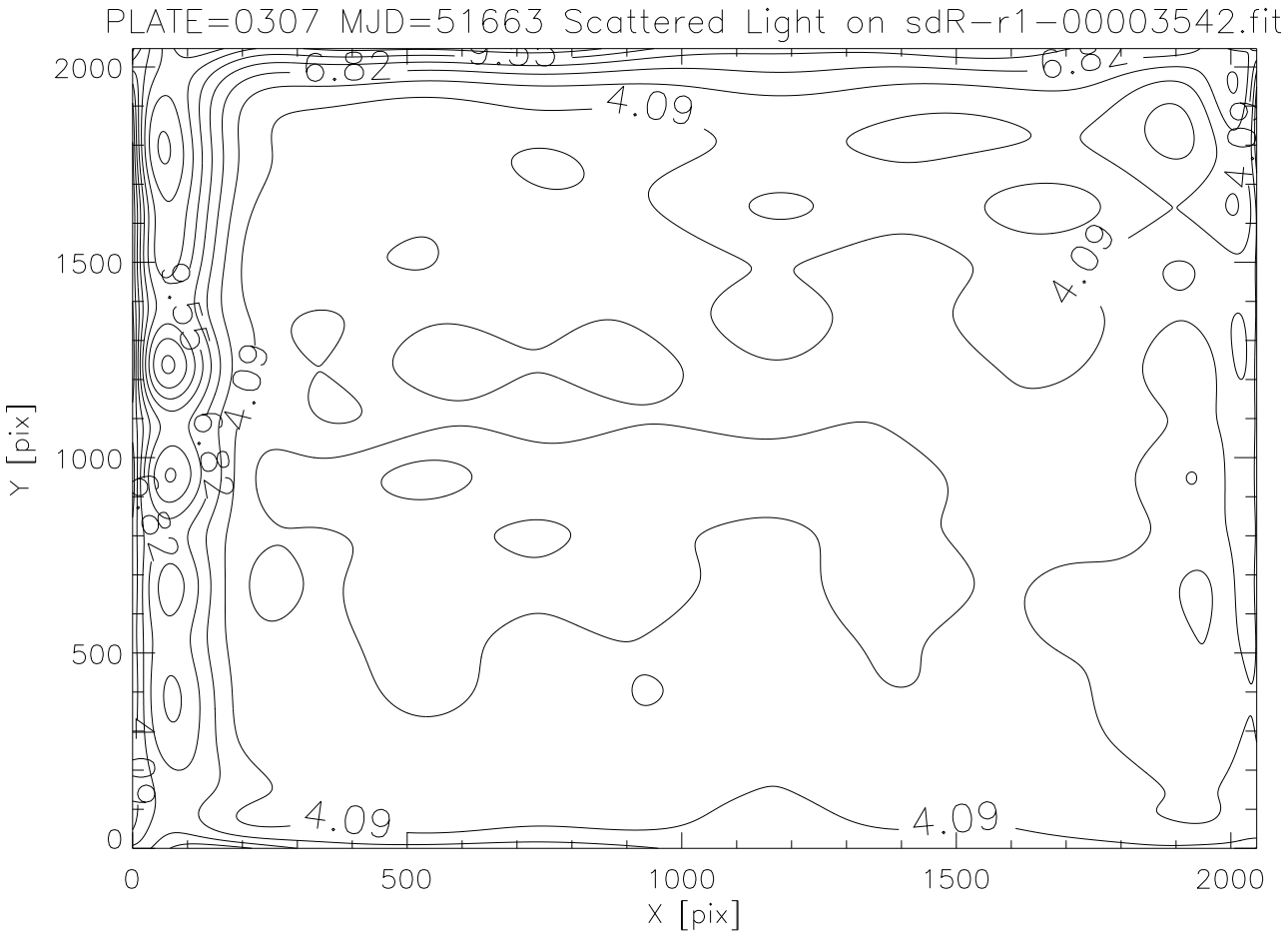

PLATE=0307 MJD=51663 Superflat sdR-r1-00003550.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

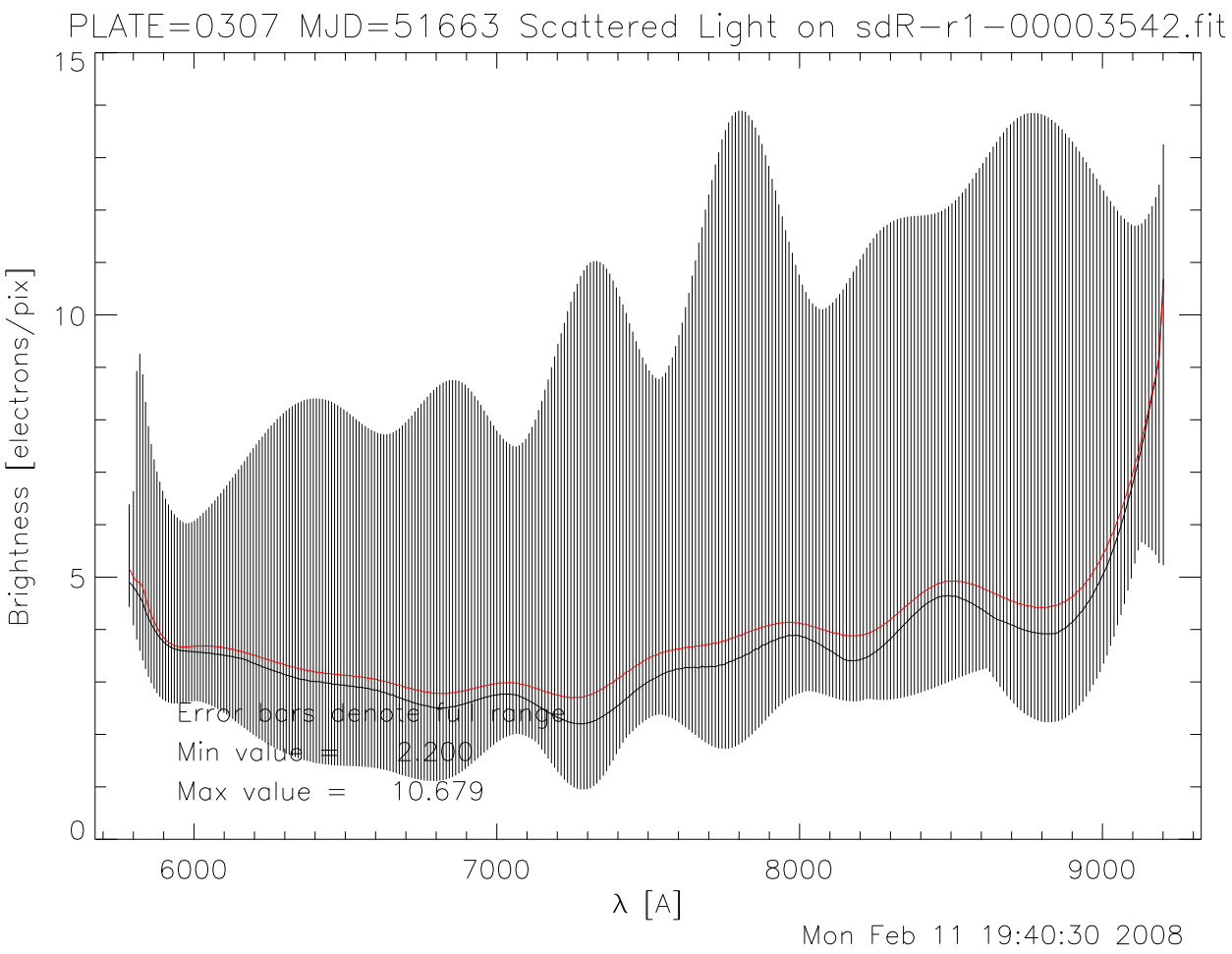

PLATE=0307 MJD=51663 Arcline Fit for sdR-r1-00003551.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Mon Feb 11 19:37:15 2008

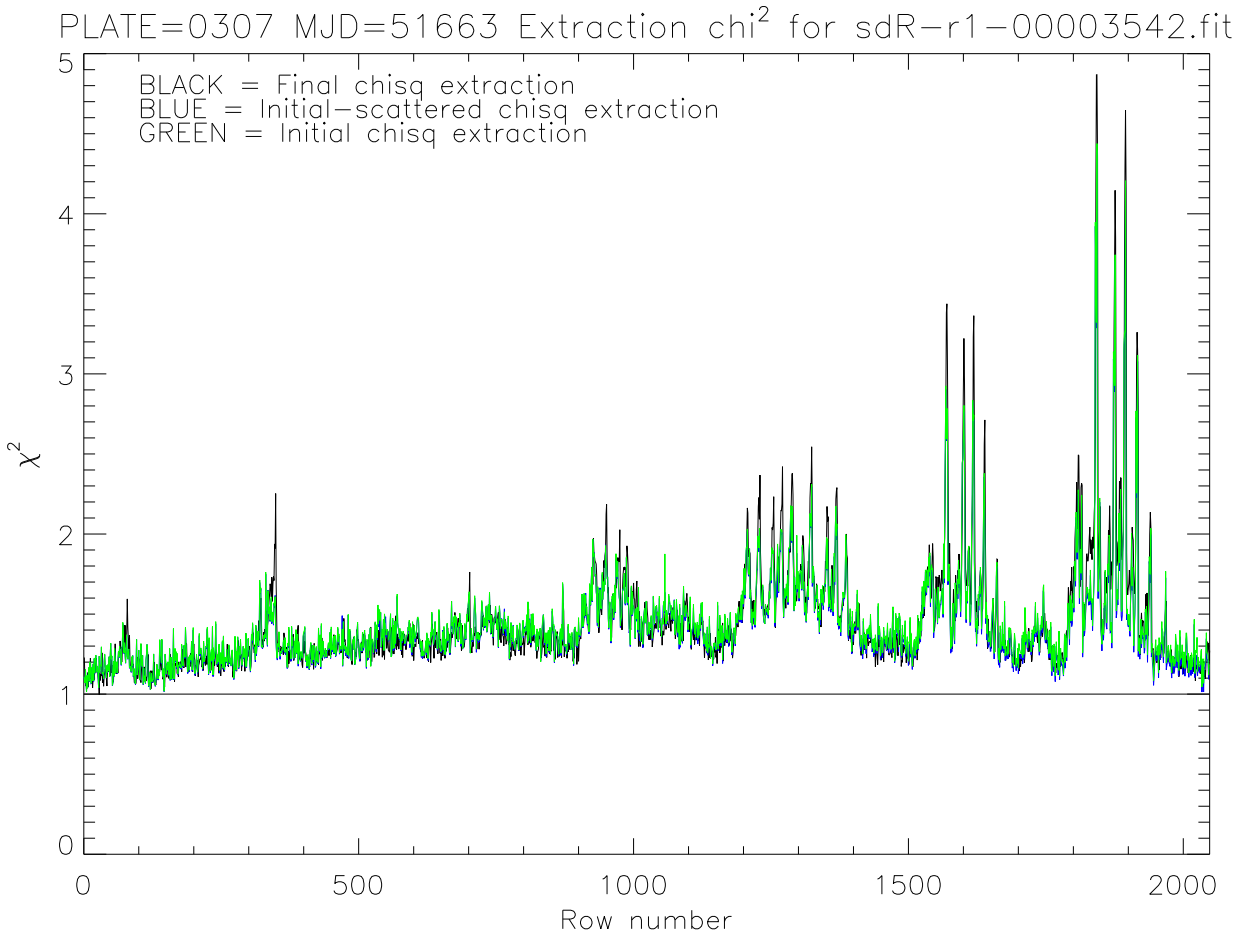

PLATE=0307 MJD=51663 Fiber−Flats for sdR−r1−00003550.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.355
Max value = 1.262
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 11 19:37:21 2008

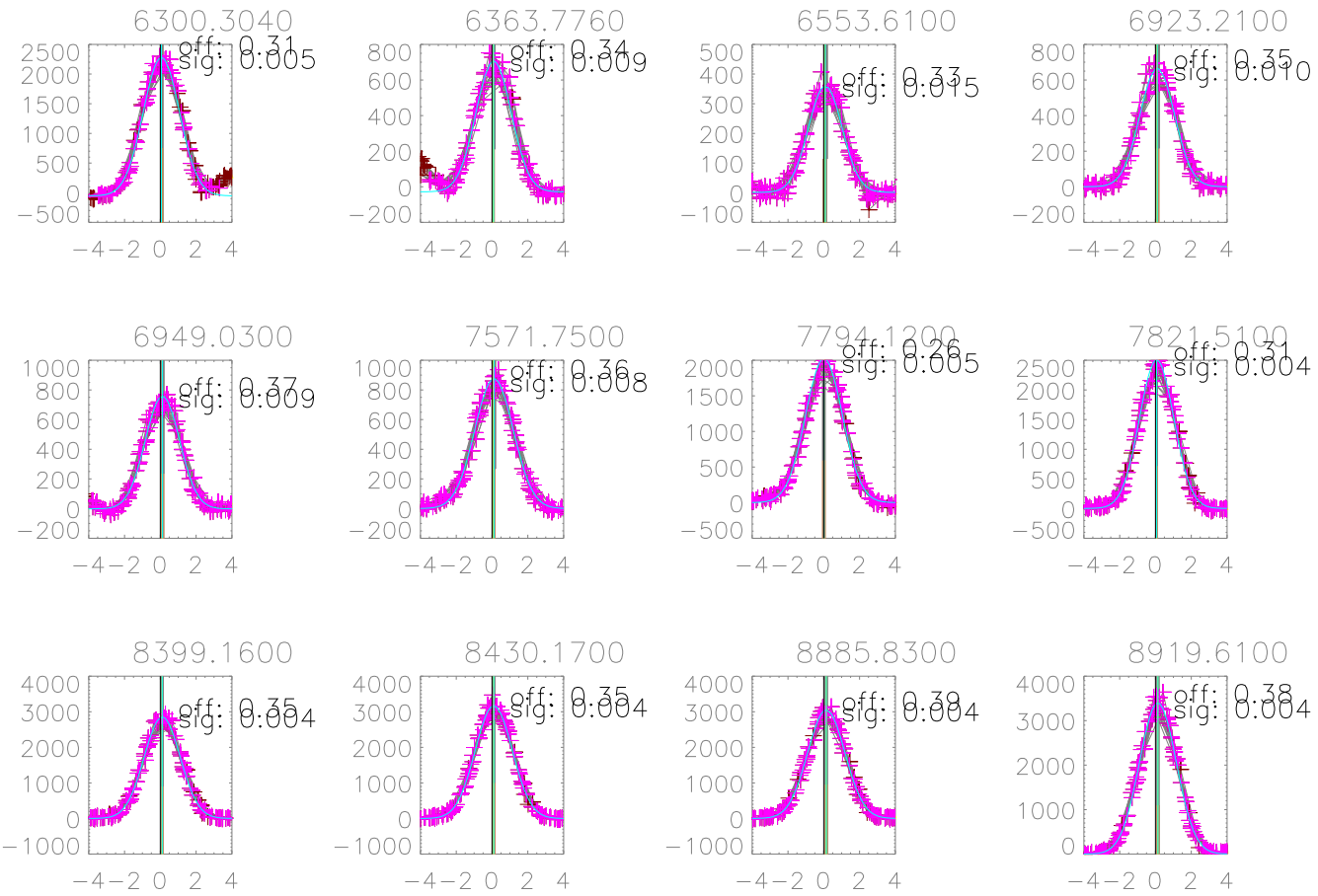

PLATE=0307 MJD=51663 Scattered Light before halo removal on sdR-r1-00003542.fi
31.82
31.82
22.73
22.73
13.64
13.64
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

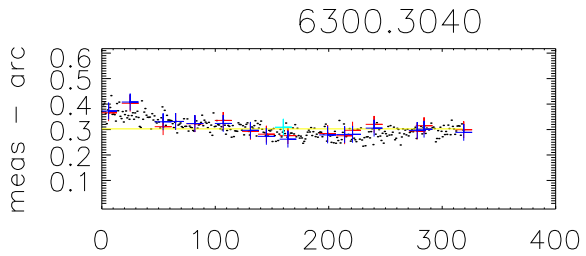

PLATE=0307 MJD=51663 Scattered Light before halo removal on sdR-r1-00003542.fi
Brightness [electrons/pix]
λ [A]
Error bars denote 1-σ range
Min value = 4.719
Max value = 35.776
Mon Feb 11 19:38:06 2008

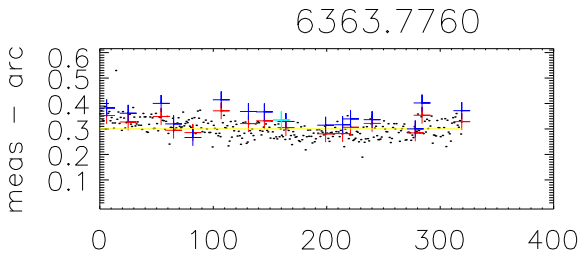

PLATE=0307 MJD=51663 Scattered Light on sdR-r1-00003542.fit
6.82
4.09
Y [pix]
X [pix]
0
500
1000
1500
2000

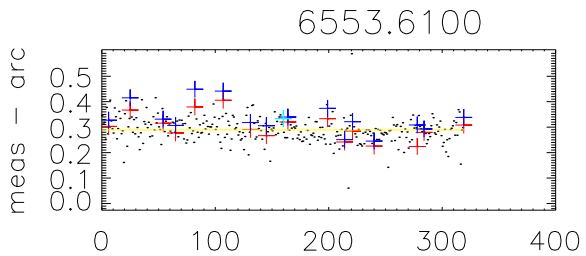

PLATE=0307 MJD=51663 Scattered Light on sdR-r1-00003542.fit
Brightness [electrons/pix]
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 2.200
Max value = 10.679
Mon Feb 11 19:40:30 2008

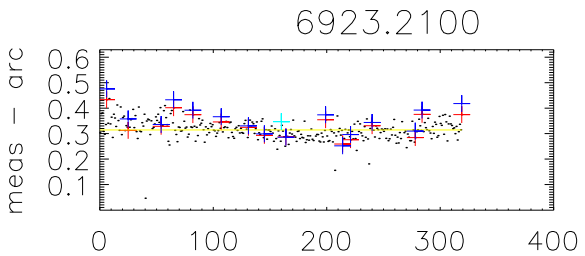

PLATE=0307 MJD=51663 Extraction chi^2 for sdR-r1-00003542.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

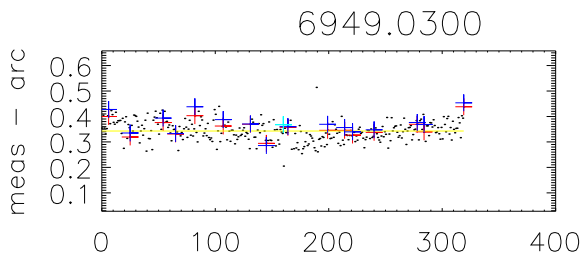

6300.3040
off: 0.31
sig: 0.005
6363.7760
off: 0.34
sig: 0.009
6553.6100
off: 0.33
sig: 0.015
6923.2100
off: 0.35
sig: 0.010
6949.0300
off: 0.37
sig: 0.009
7571.7500
off: 0.36
sig: 0.008
7794.1200
off: 0.26
sig: 0.005
7821.5100
off: 0.31
sig: 0.004
8399.1600
off: 0.35
sig: 0.004
8430.1700
off: 0.35
sig: 0.004
8885.8300
off: 0.38
sig: 0.004
8919.6100
off: 0.38
sig: 0.004

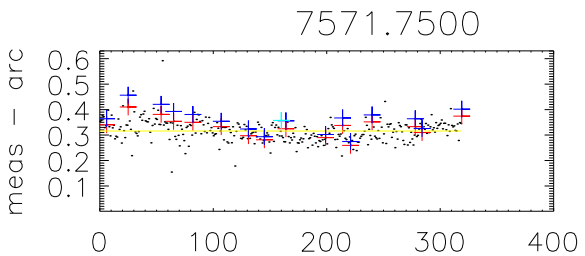

6300.3040
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

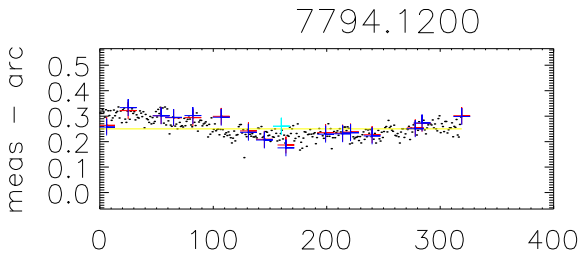

6363.7760
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

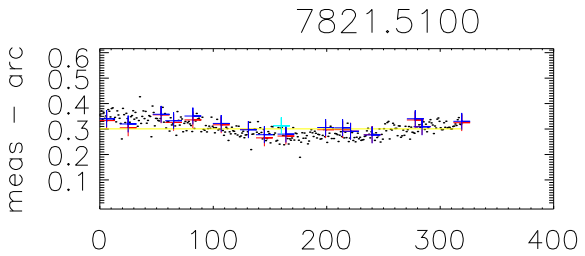

6553.6100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

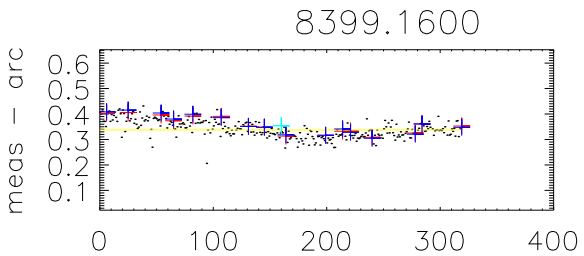

6923.2100
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

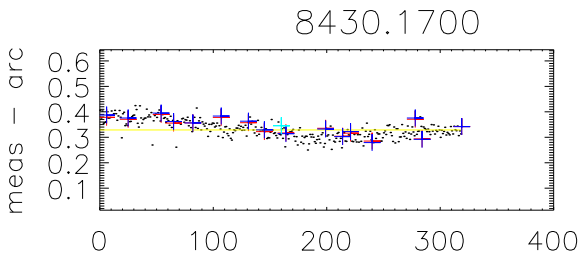

6949.0300
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

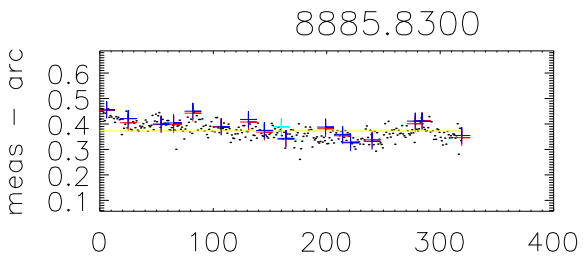

7571.7500
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

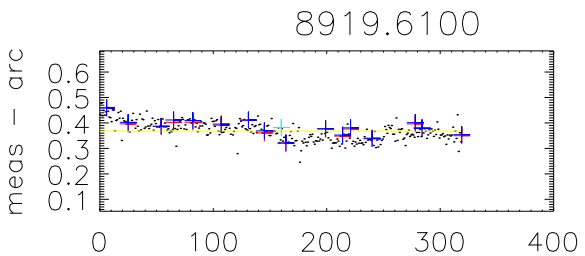

7794.1200
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

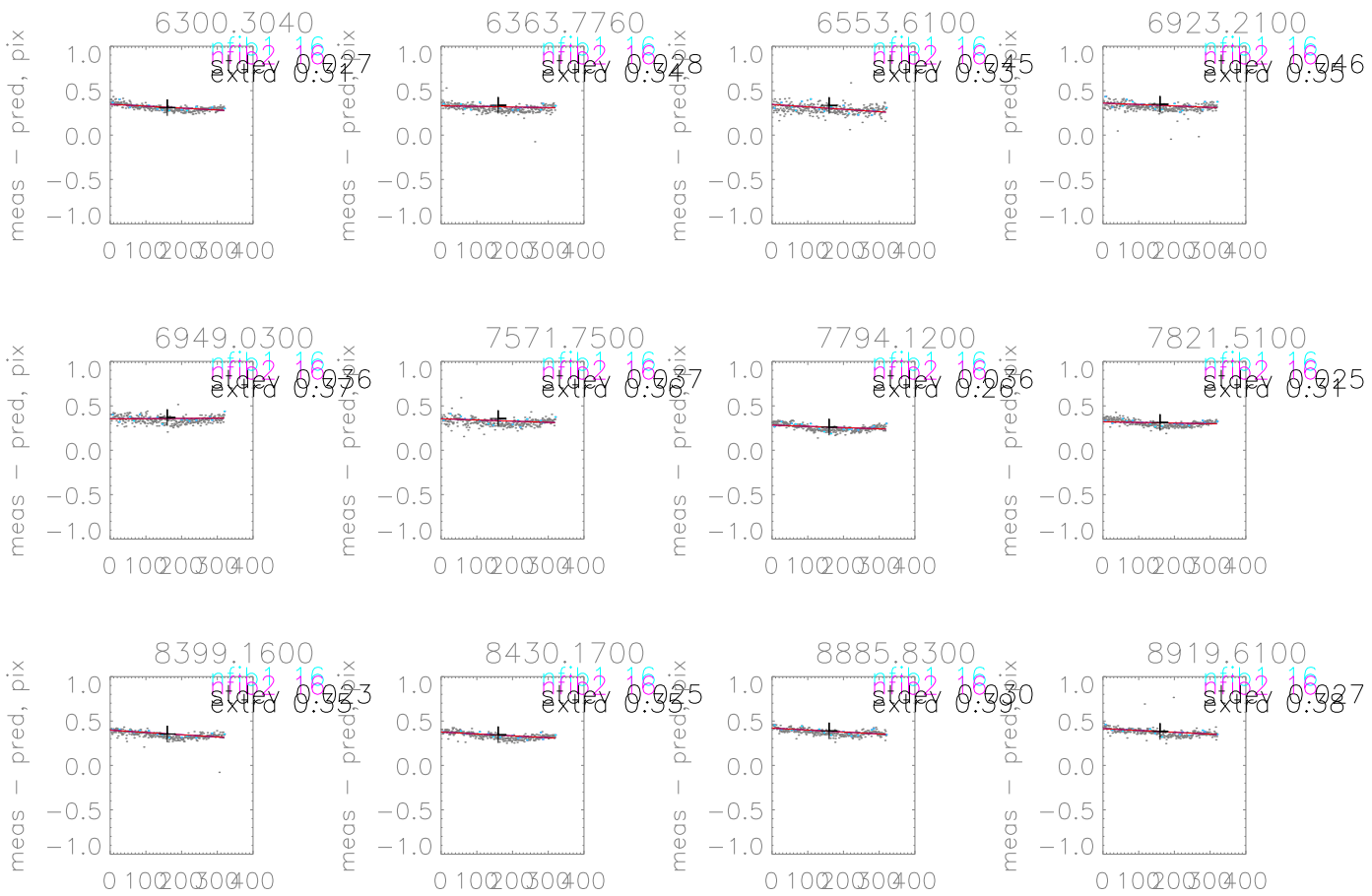

7821.5100
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

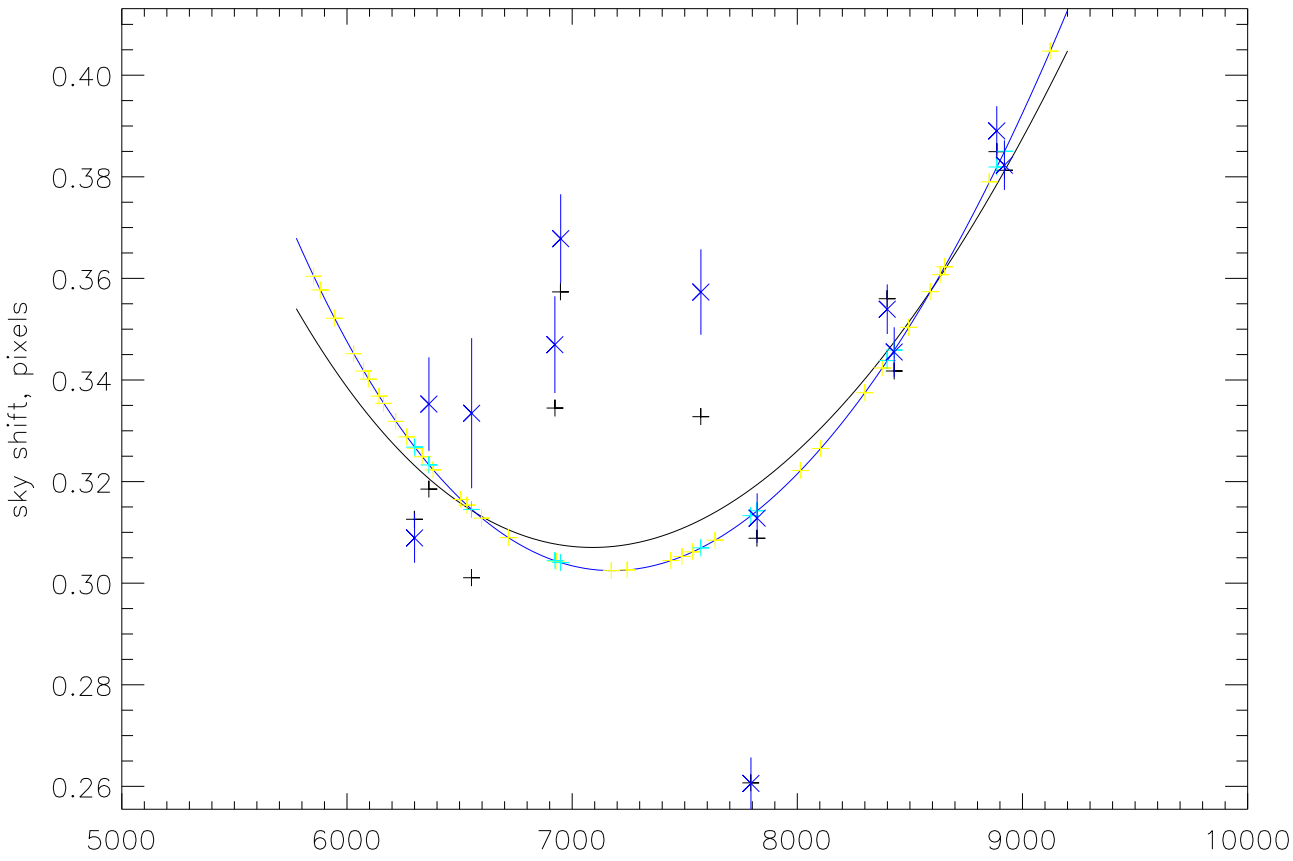

8399.1600
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400


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

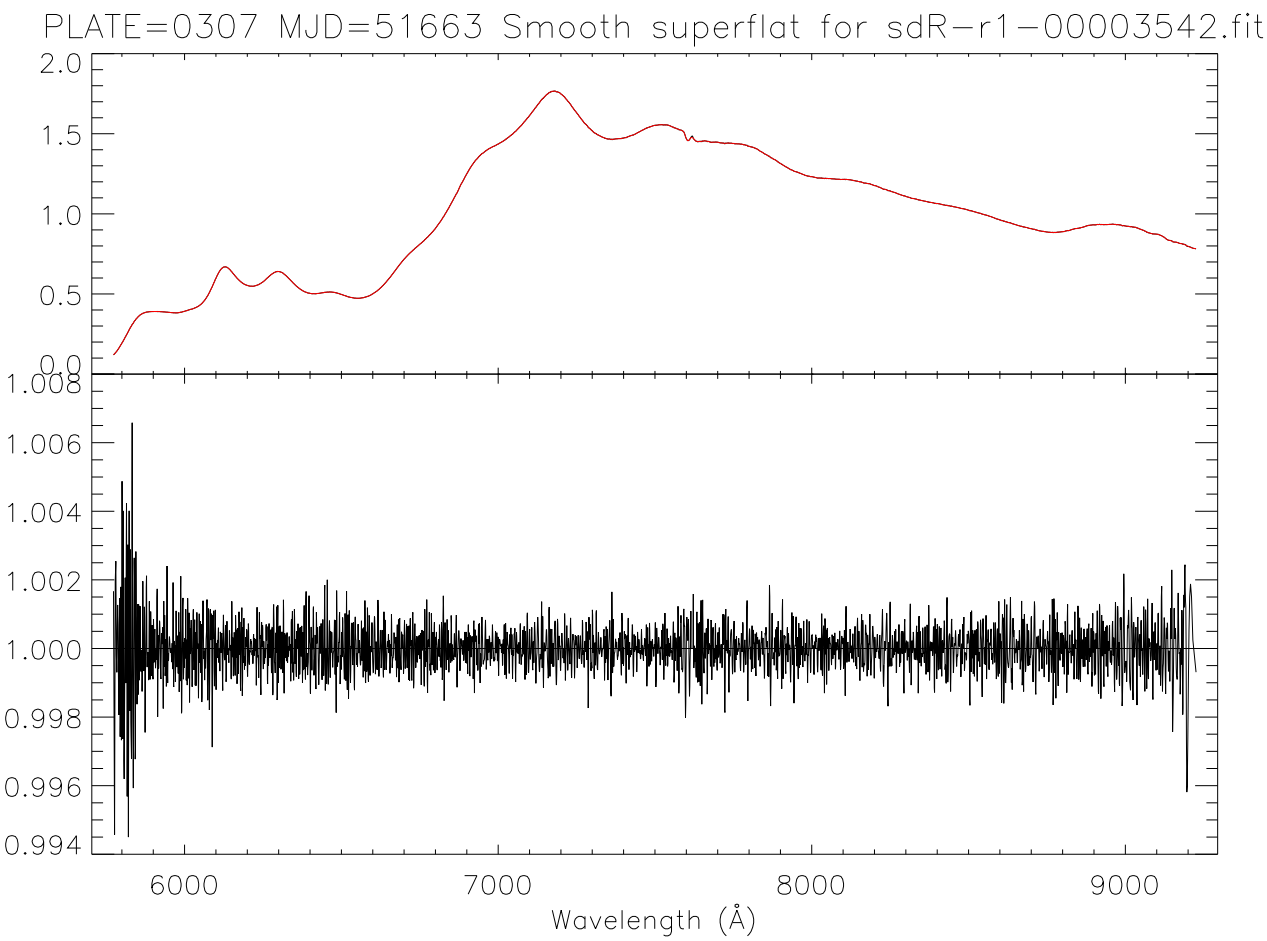

8885.8300
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

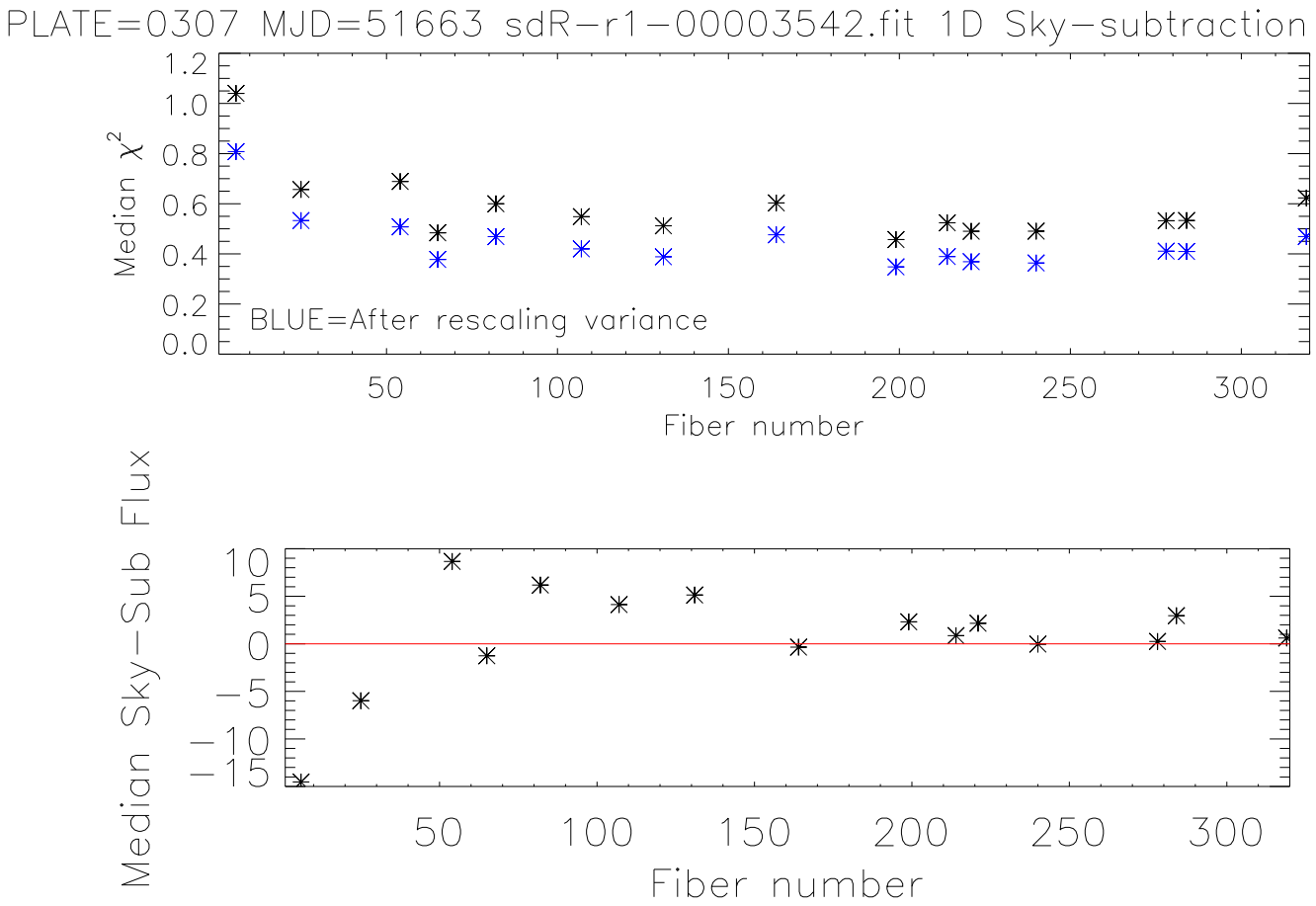

8919.6100
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

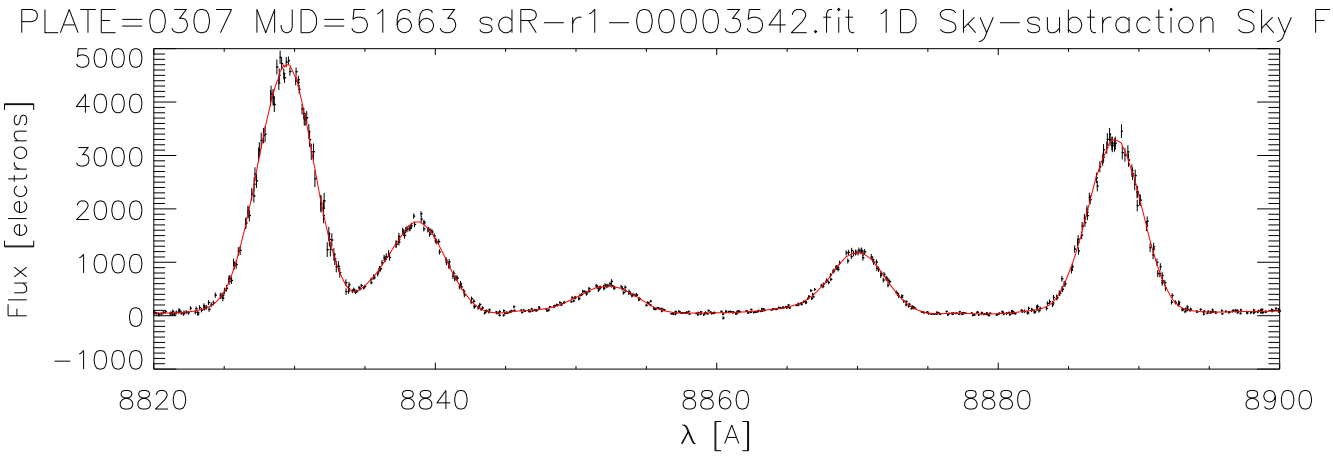

6300.3040
mfhd2 16
stdev 0.027
extra 0.31
6363.7760
mfhd2 16
stdev 0.028
extra 0.34
6553.6100
mfhd2 16
stdev 0.045
extra 0.33
6923.2100
mfhd2 16
stdev 0.046
extra 0.35
6949.0300
mfhd2 16
stdev 0.036
extra 0.37
7571.7500
mfhd2 16
stdev 0.037
extra 0.36
7794.1200
mfhd2 16
stdev 0.036
extra 0.26
7821.5100
mfhd2 16
stdev 0.025
extra 0.31
8399.1600
mfhd2 16
stdev 0.023
extra 0.33
8430.1700
mfhd2 16
stdev 0.025
extra 0.33
8885.8300
mfhd2 16
stdev 0.030
extra 0.39
8919.6100
mfhd2 16
stdev 0.027
extra 0.38
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

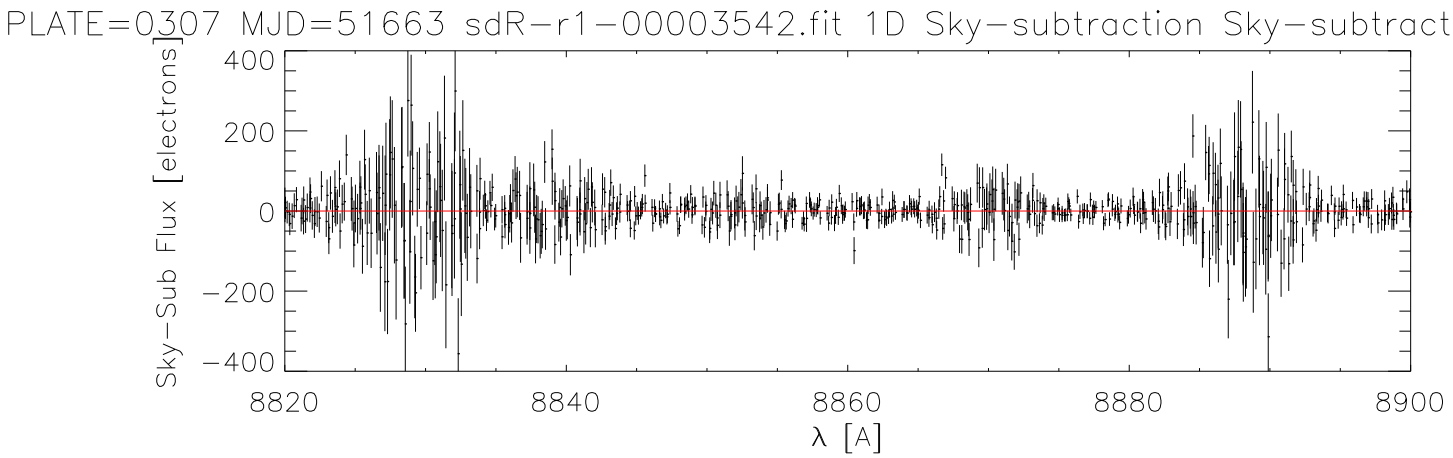

sky shift, pixels
0.40
0.38
0.36
0.34
0.32
0.30
0.28
0.26
5000
6000
7000
8000
9000
10000

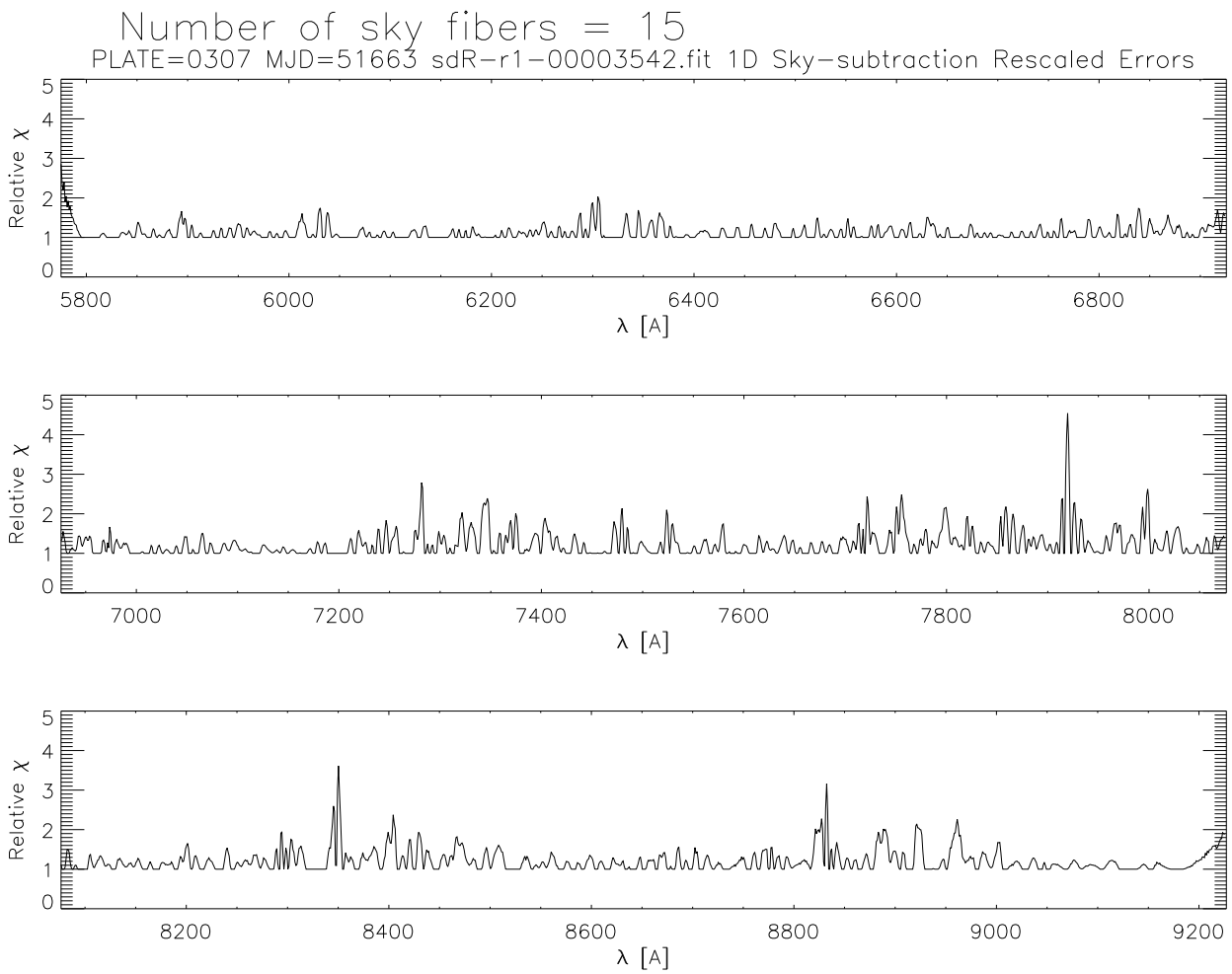
es= 0.0000

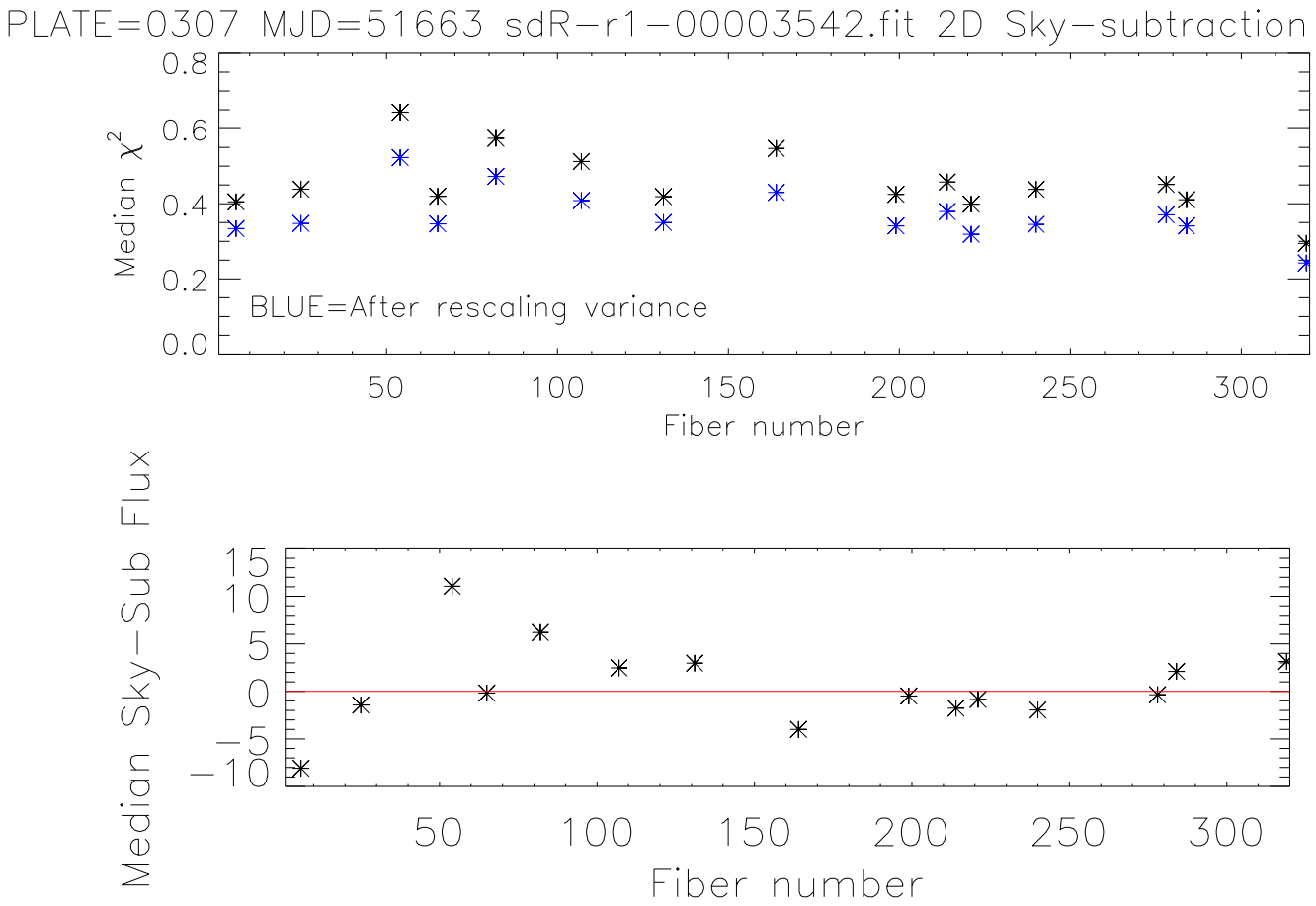

PLATE=0307 MJD=51663 Smooth superflat for sdR-r1-00003542.fit
2.0
1.5
1.0
0.5
0.0
1.008
1.006
1.004
1.002
1.000
0.998
0.996
0.994
6000
7000
8000
9000
Wavelength (Å)

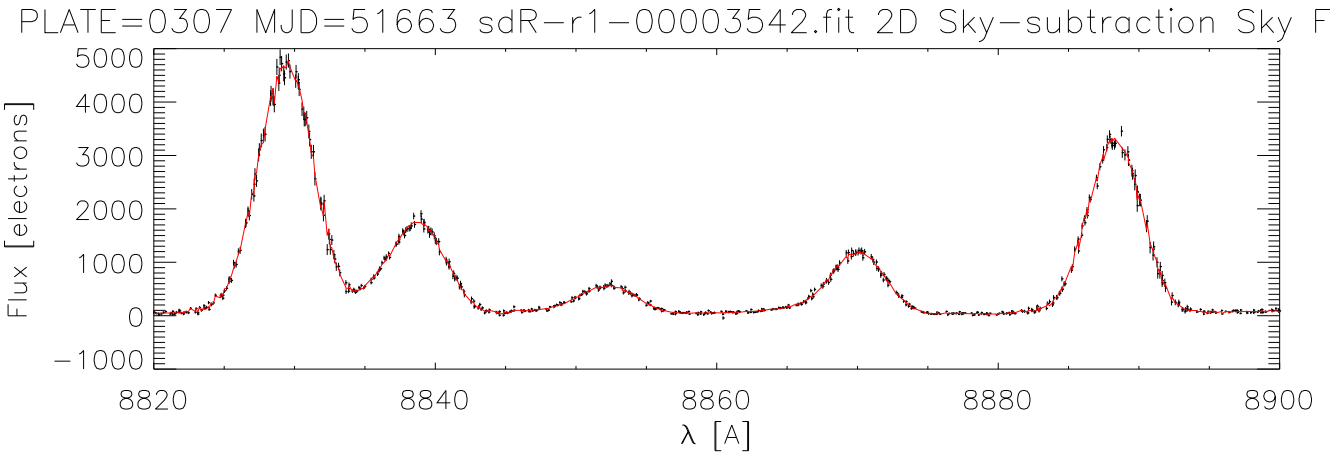

PLATE=0307 MJD=51663 sdR-r1-00003542.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

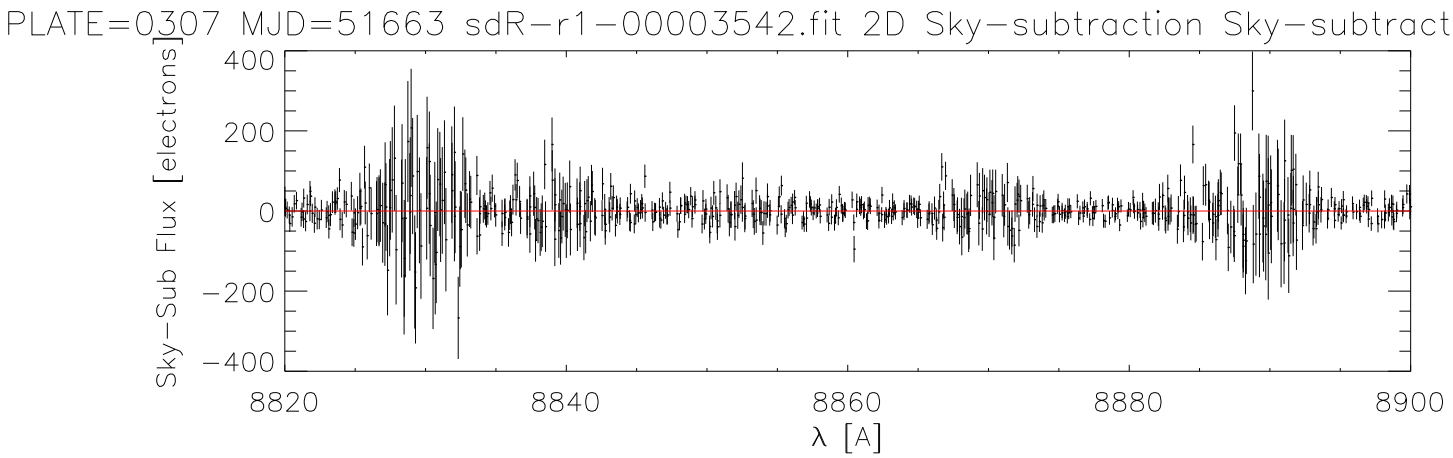

PLATE=0307 MJD=51663 sdR-r1-00003542.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
−1000
8820
8840
8860
8880
8900
λ [A]

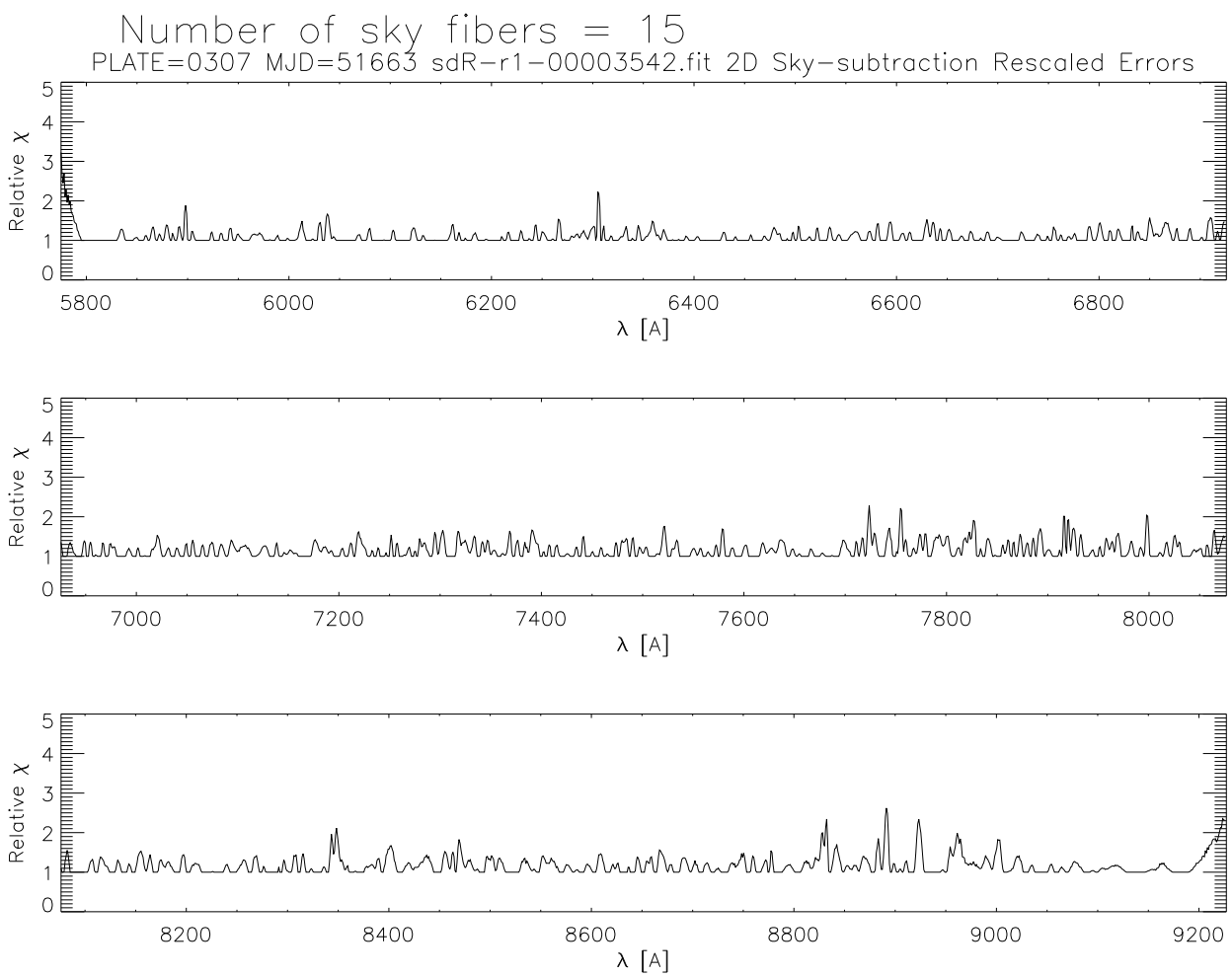

PLATE=0307 MJD=51663 sdR-r1-00003542.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
−200
−400
8820
8840
8860
8880
8900
λ [A]

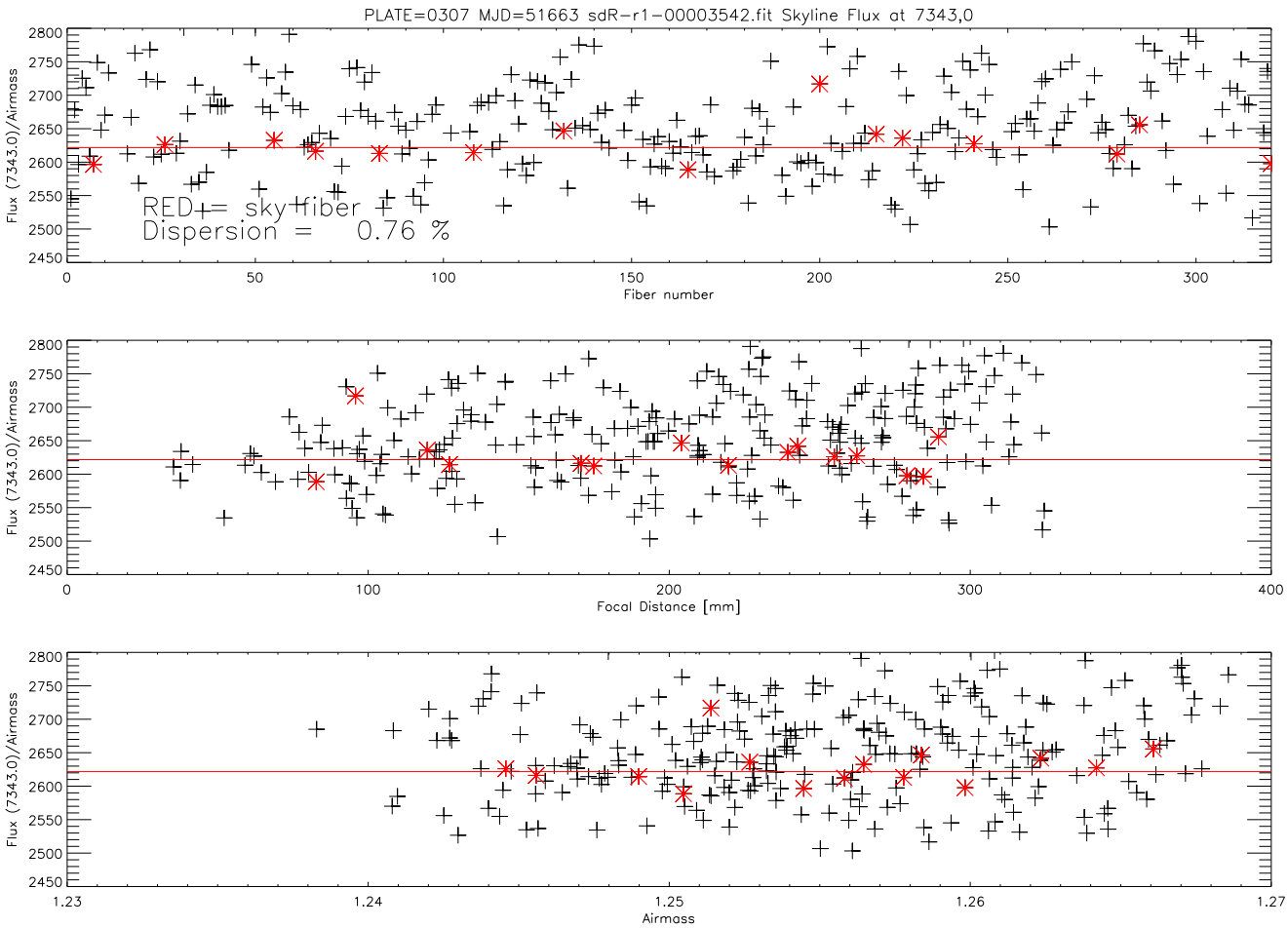

Number of sky fibers = 15
PLATE=0307 MJD=51663 sdR-r1-00003542.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

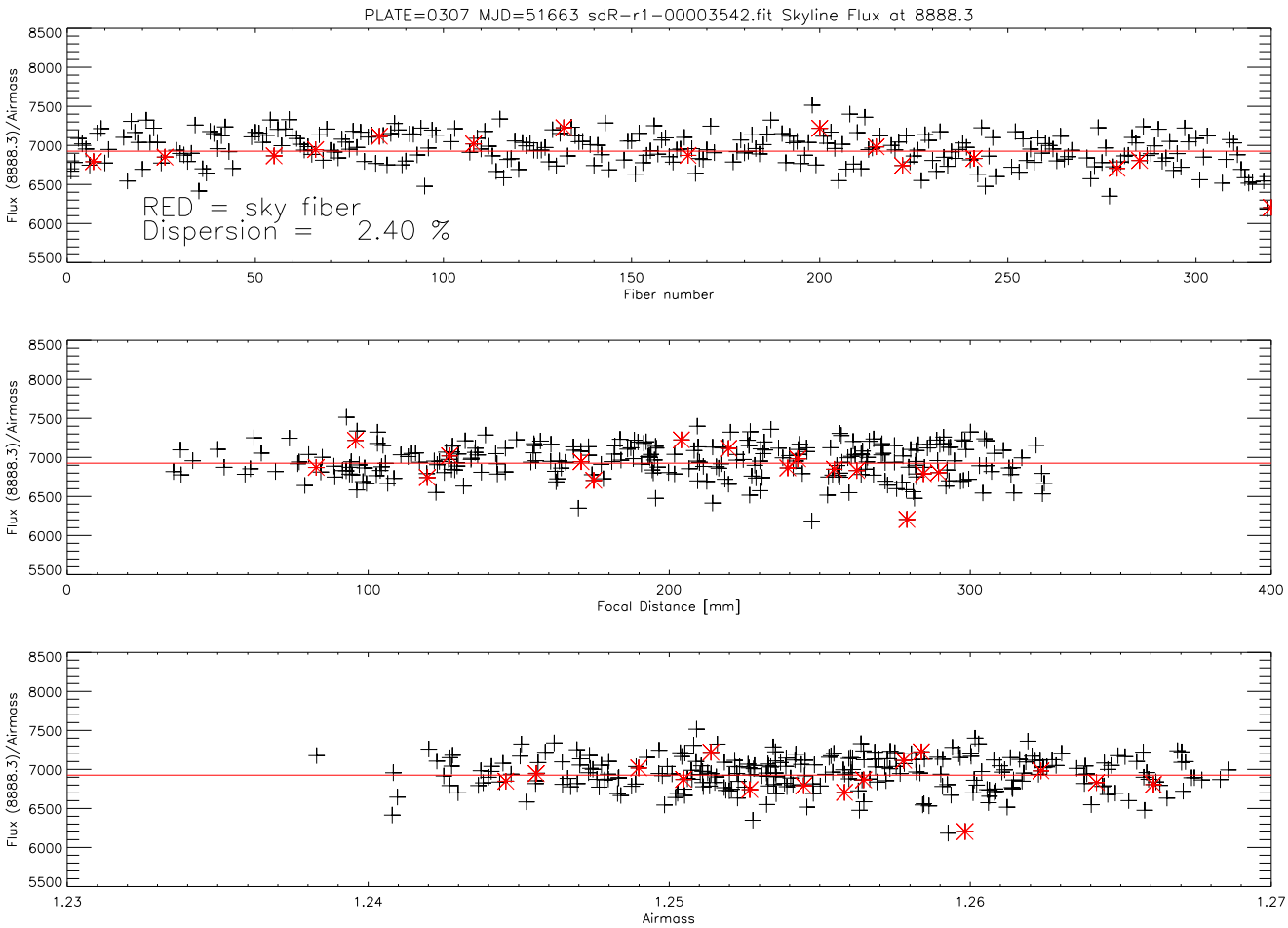

PLATE=0307 MJD=51663 sdR-r1-00003542.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
15
10
5
0
-5
-10
50
100
150
200
250
300
Fiber number

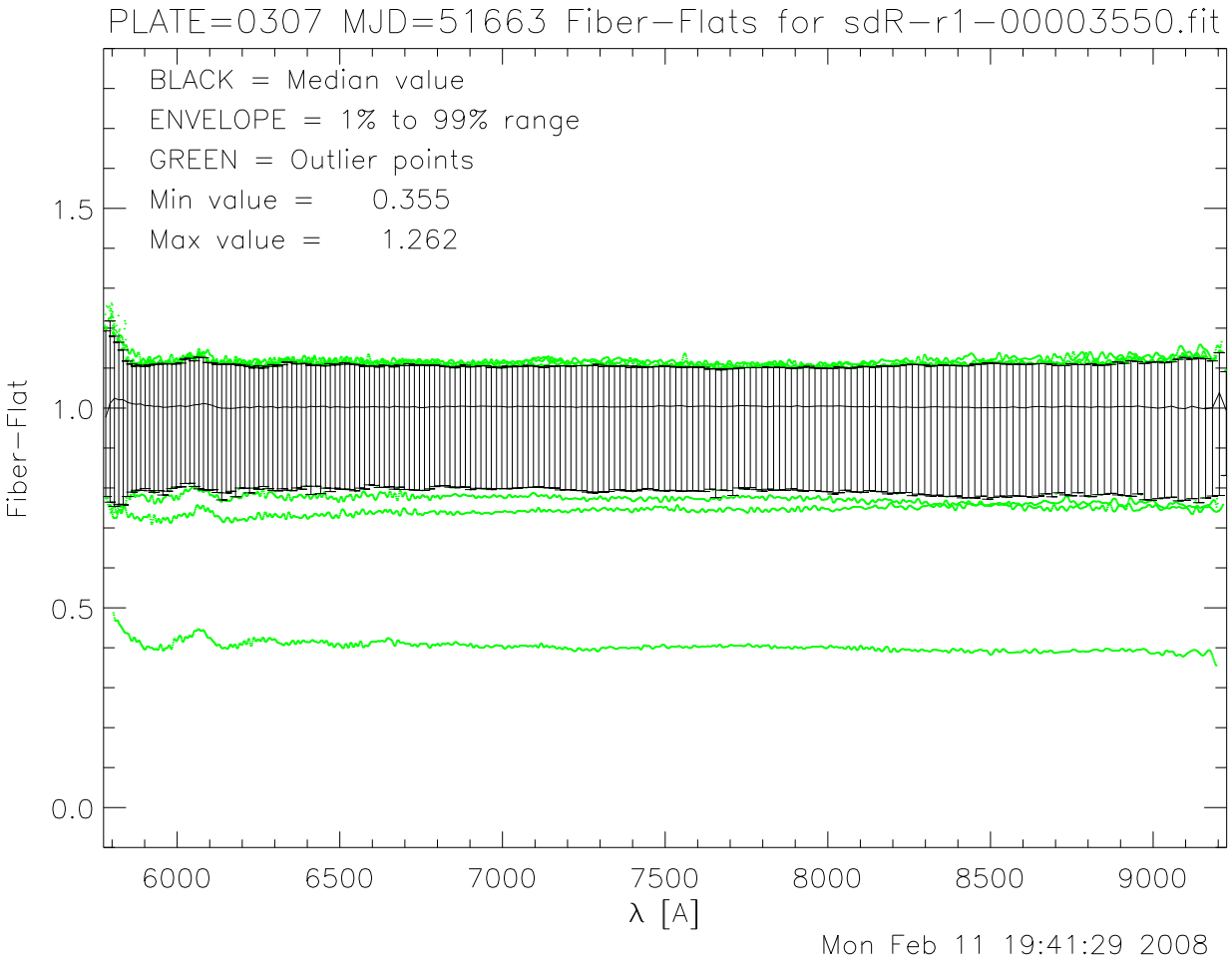

PLATE=0307 MJD=51663 sdR-r1-00003542.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
−1000
8820
8840
8860
8880
8900
λ [A]

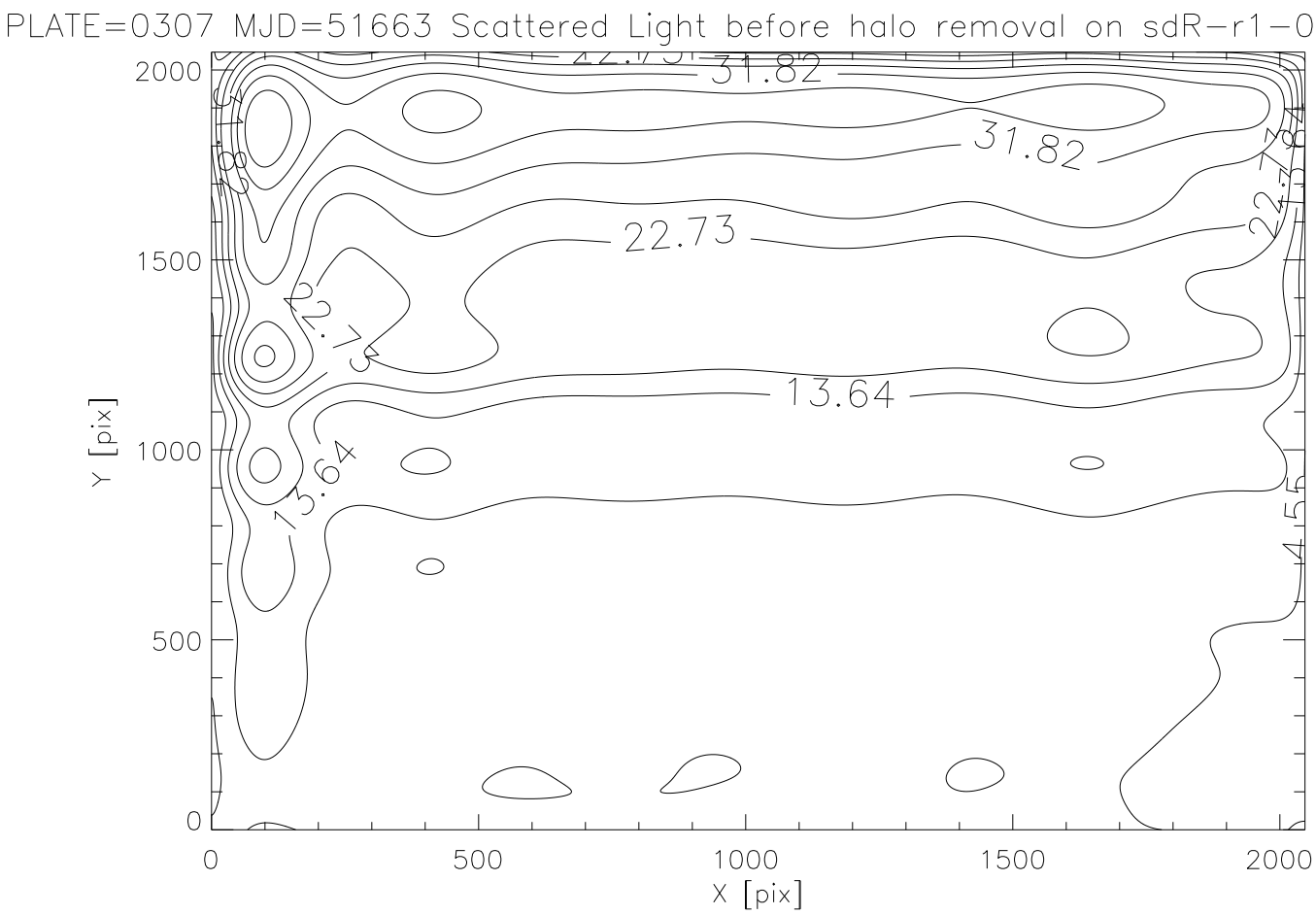

PLATE=0307 MJD=51663 sdR-r1-00003542.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
−200
−400
8820
8840
8860
8880
8900
λ [A]

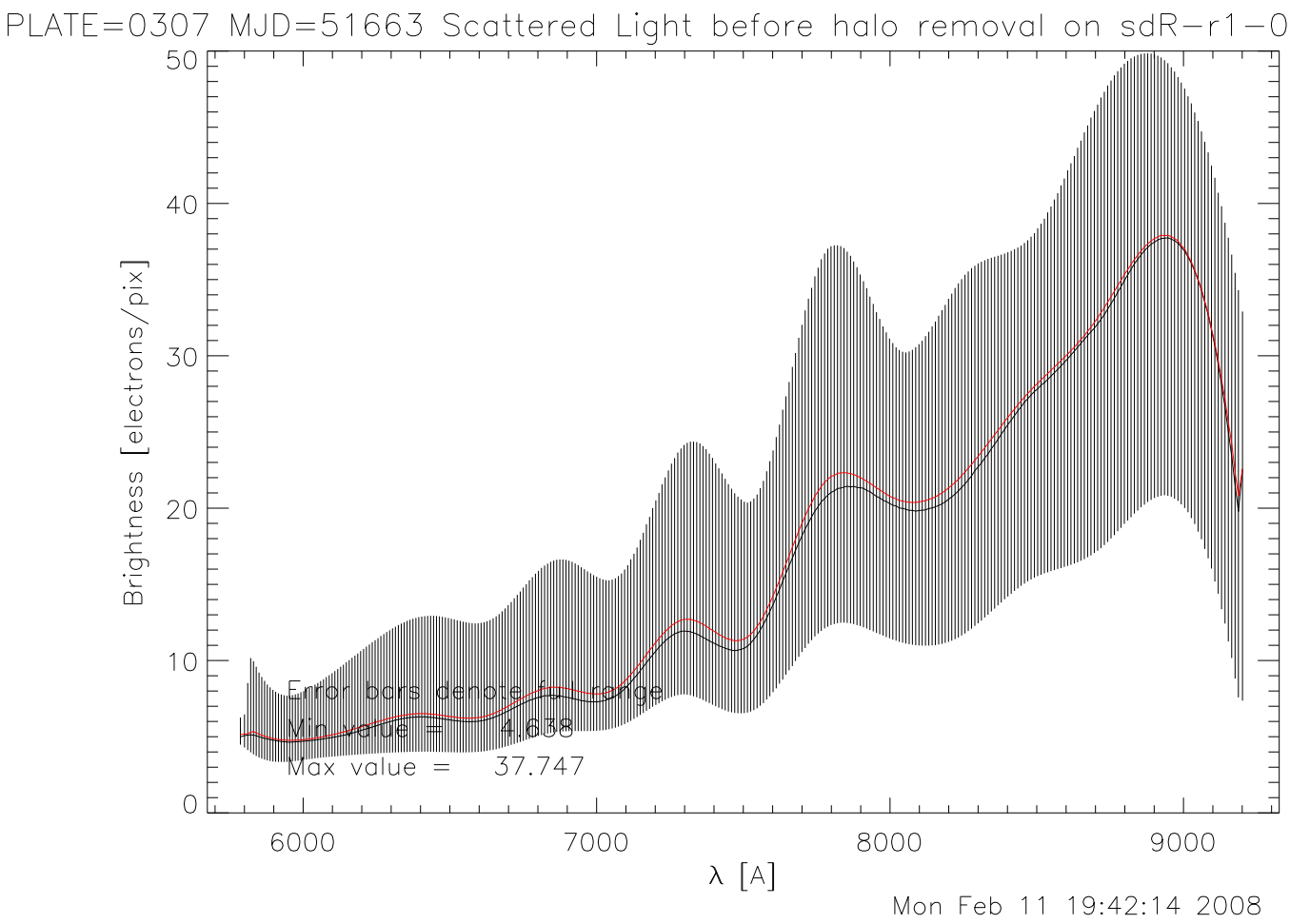

Number of sky fibers = 15
PLATE=0307 MJD=51663 sdR-r1-00003542.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

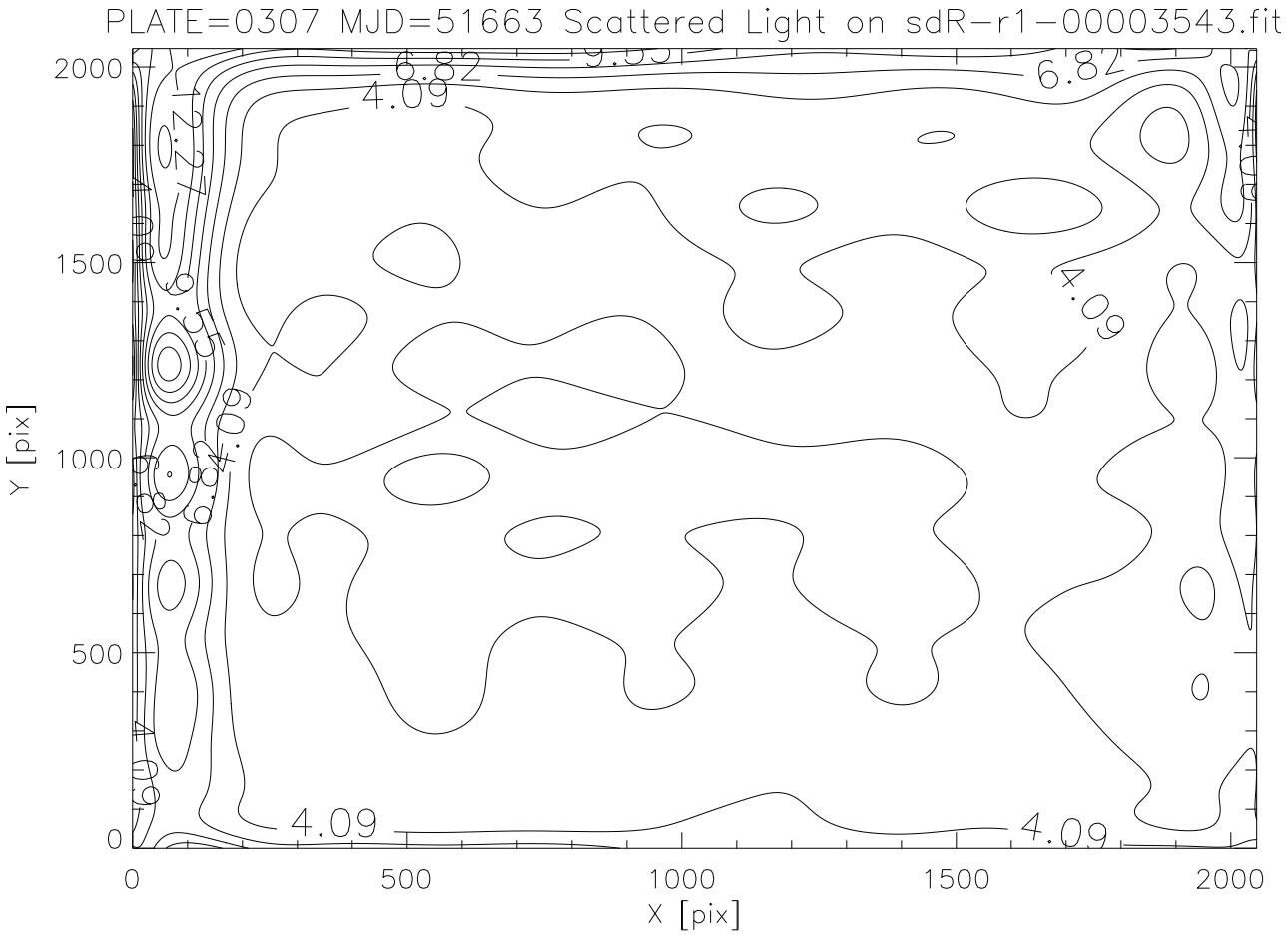

PLATE=0307 MJD=51663 sdR-r1-00003542.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED+= sky fiber
Dispersion = 0.76 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

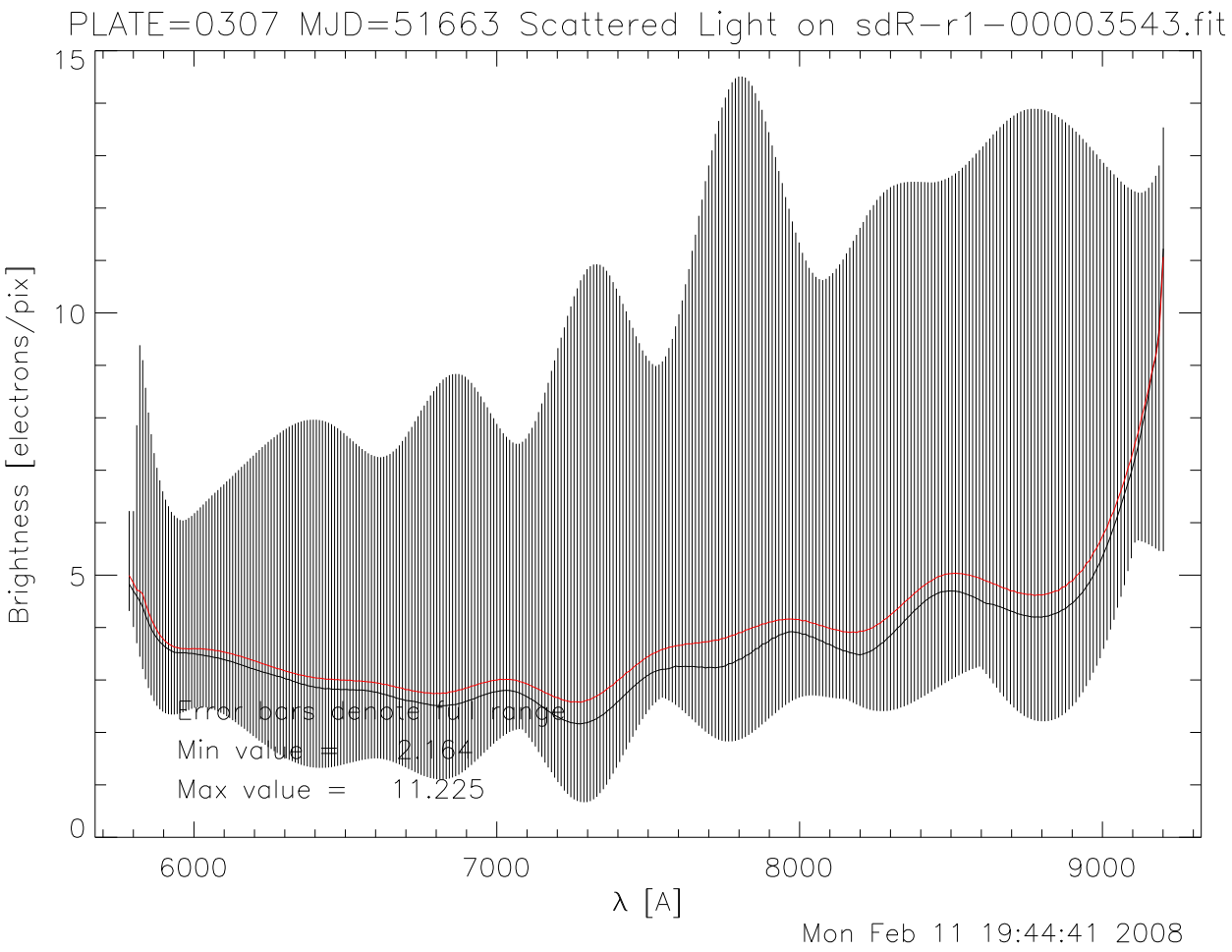

PLATE=0307 MJD=51663 sdR-r1-00003542.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.40 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

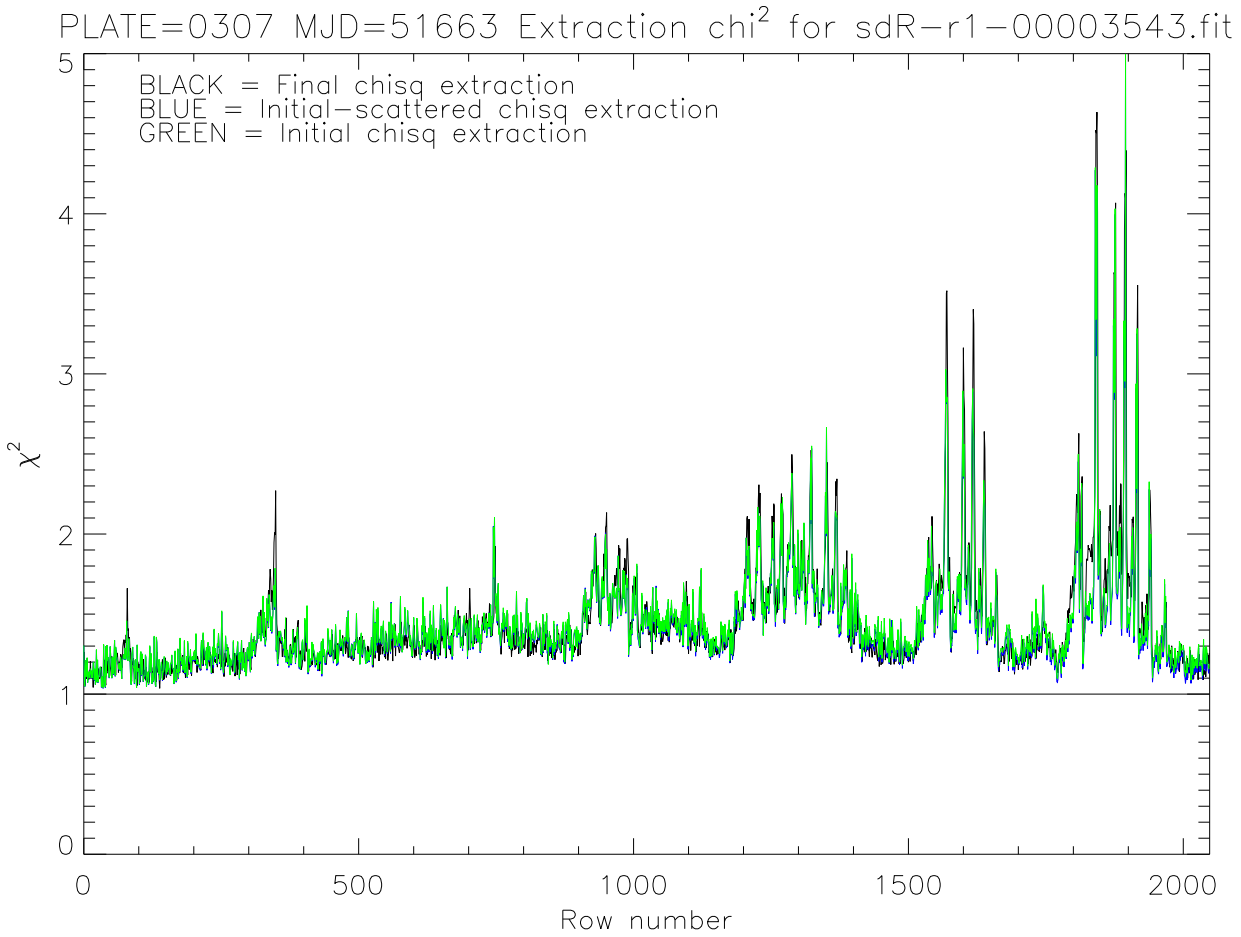

PLATE=0307 MJD=51663 Fiber−Flats for sdR−r1−00003550.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.355
Max value = 1.262
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 11 19:41:29 2008

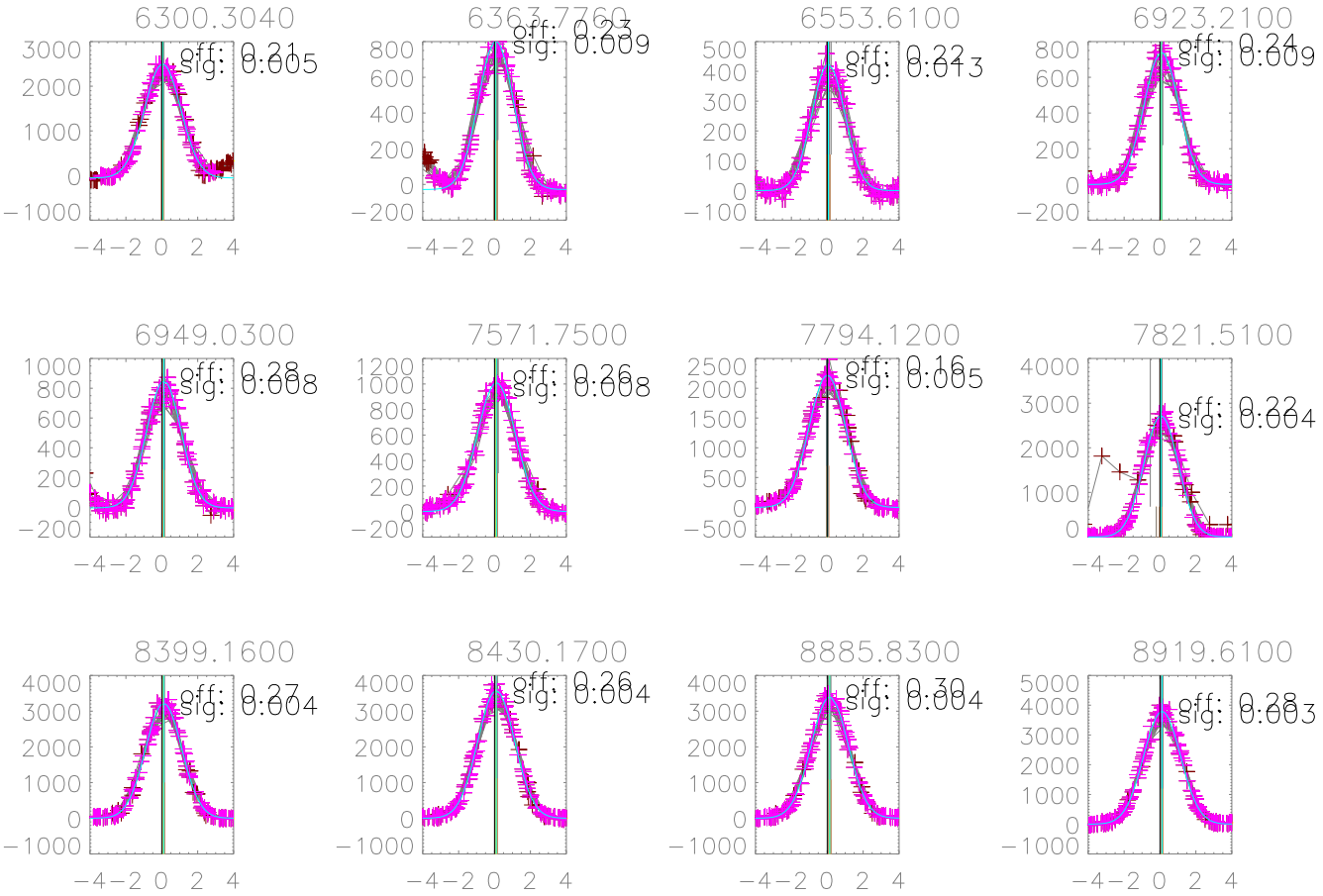

PLATE=0307 MJD=51663 Scattered Light before halo removal on sdR-r1-00003543.fi
31.82
31.82
22.73
22.73
13.64
13.64
4.55
Y [pix]
X [pix]
0
500
1000
1500
2000

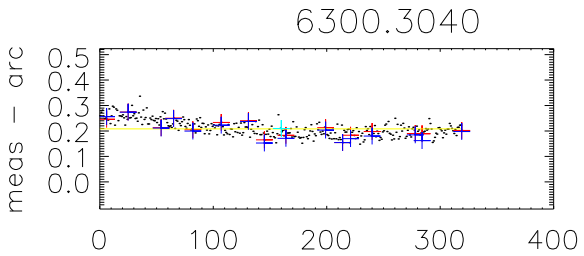

PLATE=0307 MJD=51663 Scattered Light before halo removal on sdR-r1-00003543.fi
Brightness [electrons/pix]
λ [A]
Error bars denote 1-σ range
Min value = 4.638
Max value = 37.747
Mon Feb 11 19:42:14 2008

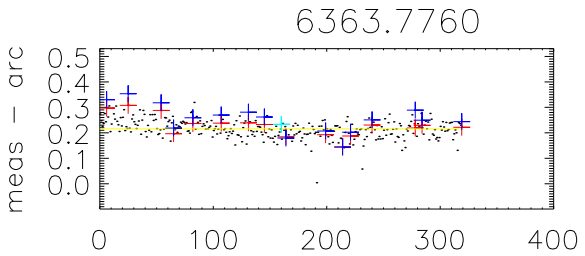

PLATE=0307 MJD=51663 Scattered Light on sdR-r1-00003543.fit
6.82
4.09
0
Y [pix]
X [pix]
0
500
1000
1500
2000

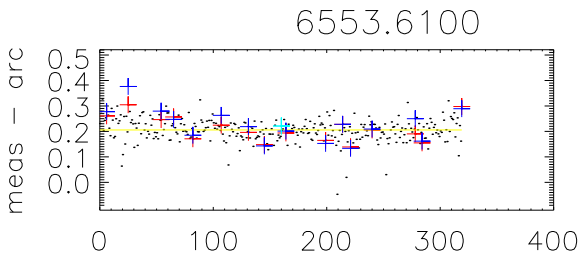

PLATE=0307 MJD=51663 Scattered Light on sdR-r1-00003543.fit
Brightness [electrons/pix]
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 2.164
Max value = 11.225
Mon Feb 11 19:44:41 2008

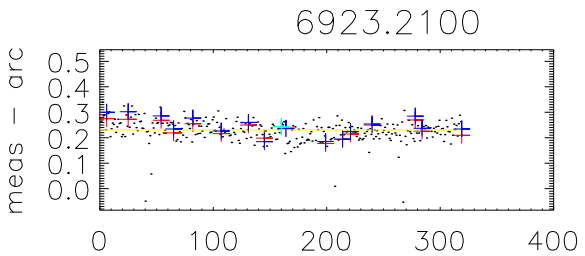

PLATE=0307 MJD=51663 Extraction chi^2 for sdR−r1−00003543.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

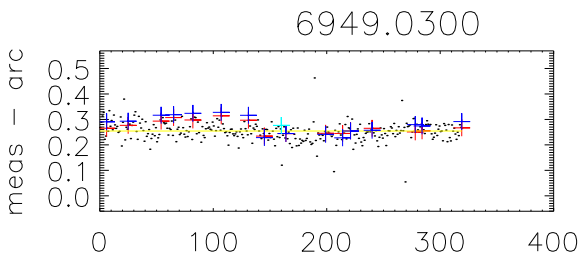

6300.3040
off: 0.21
sig: 0.005
6363.7760
off: 0.23
sig: 0.009
6553.6100
off: 0.22
sig: 0.013
6923.2100
off: 0.24
sig: 0.009
6949.0300
off: 0.28
sig: 0.008
7571.7500
off: 0.26
sig: 0.008
7794.1200
off: 0.16
sig: 0.005
7821.5100
off: 0.22
sig: 0.004
8399.1600
off: 0.27
sig: 0.004
8430.1700
off: 0.26
sig: 0.004
8885.8300
off: 0.30
sig: 0.004
8919.6100
off: 0.28
sig: 0.003

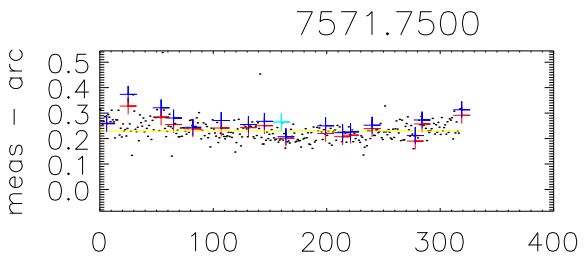

6300.3040
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

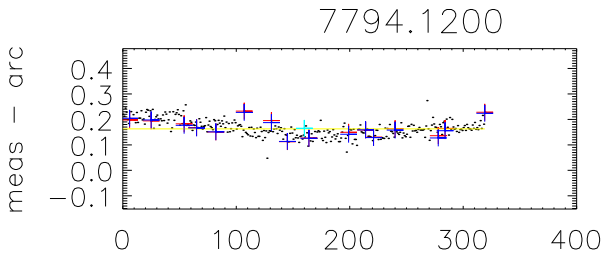

6363.7760
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

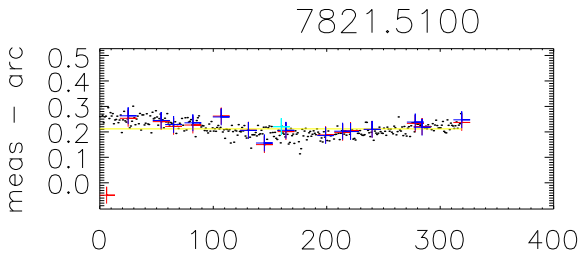

6553.6100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

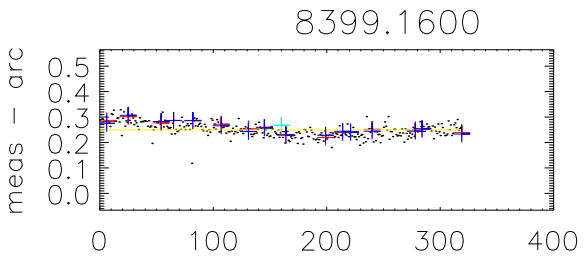

6923.2100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

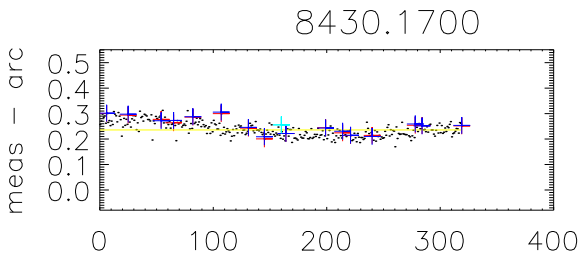

6949.0300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

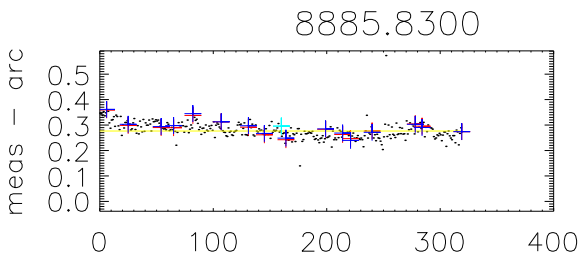

7571.7500
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

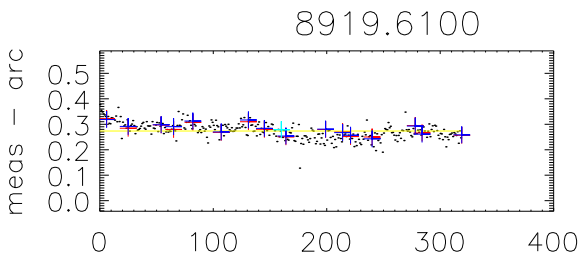

7794.1200
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

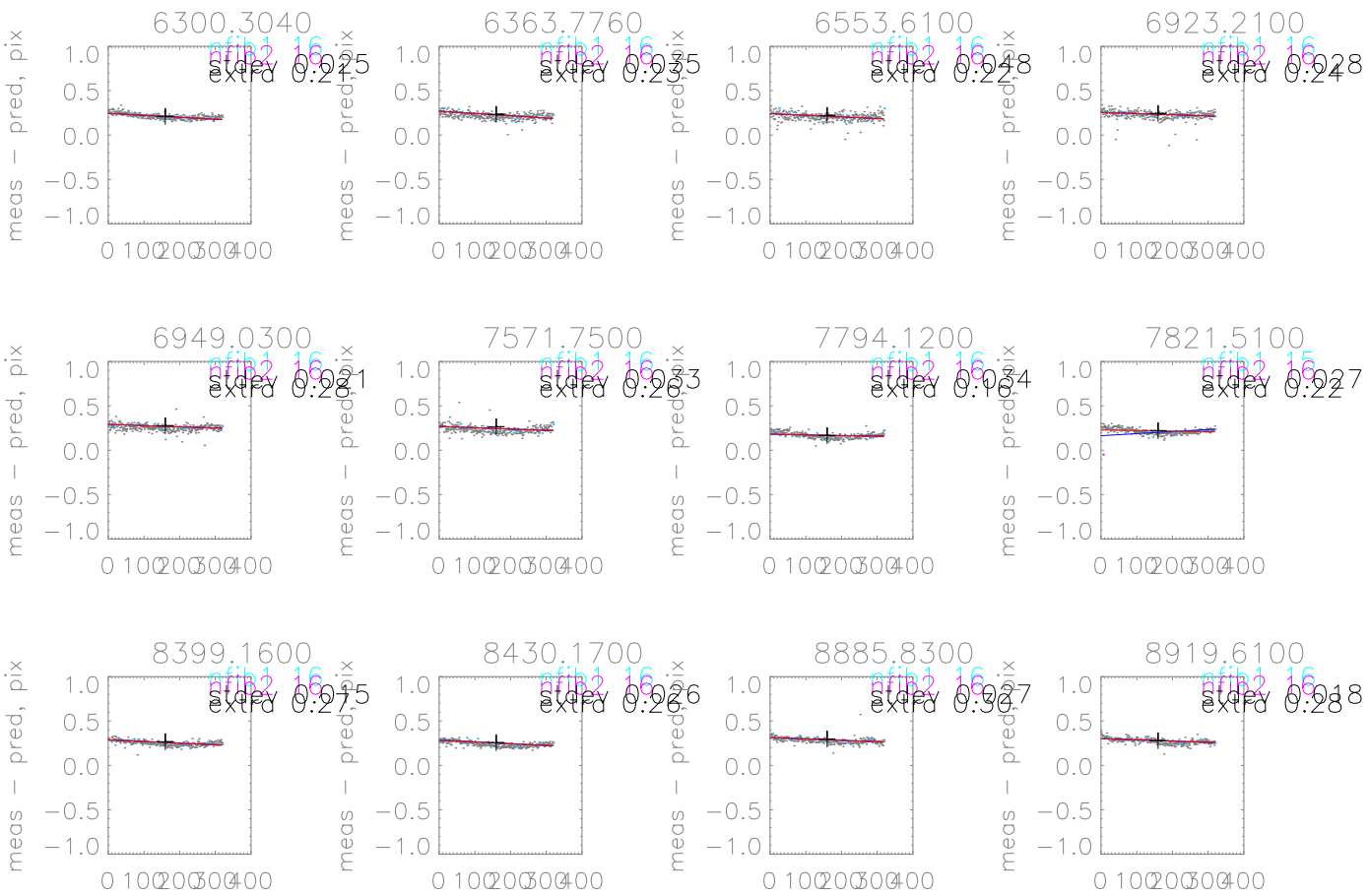

7821.5100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

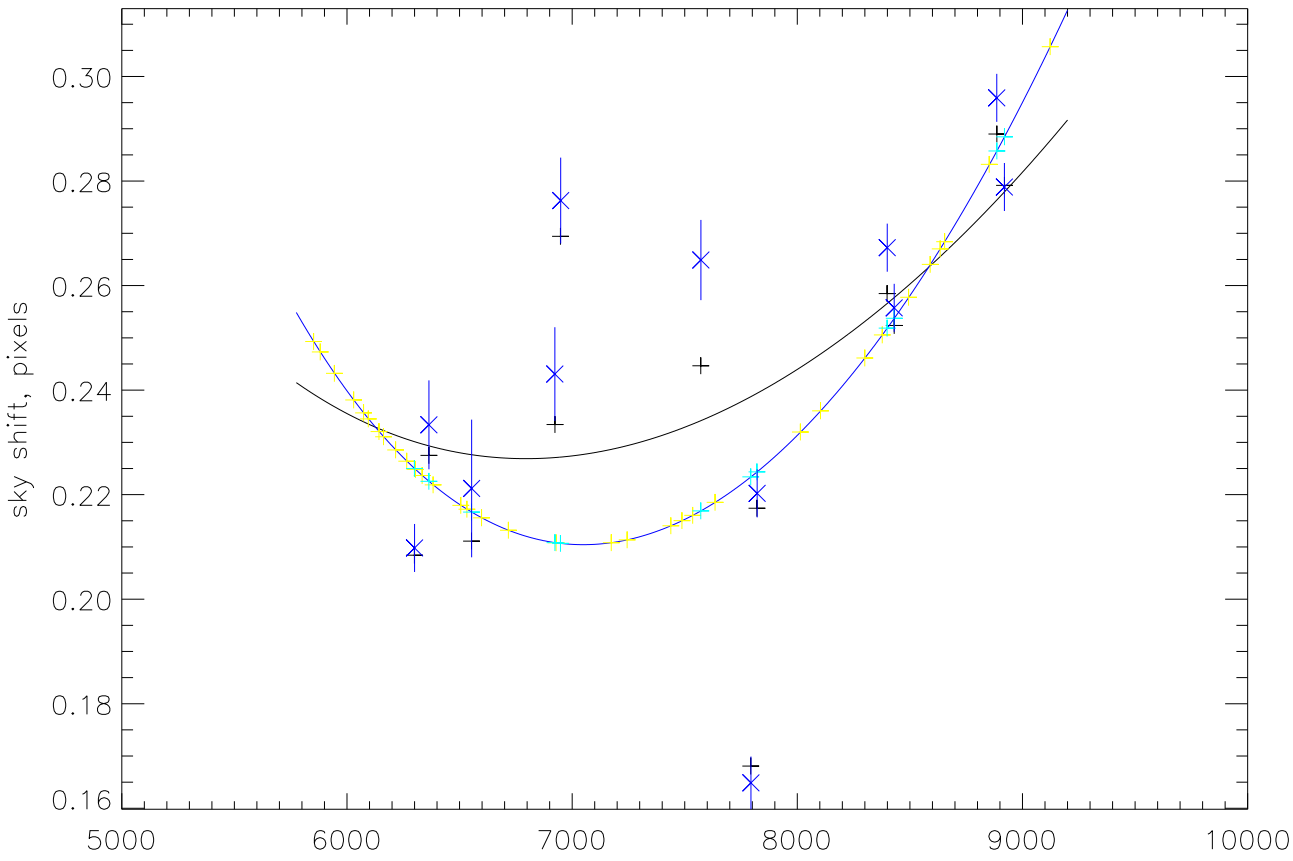

8399.1600
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400


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

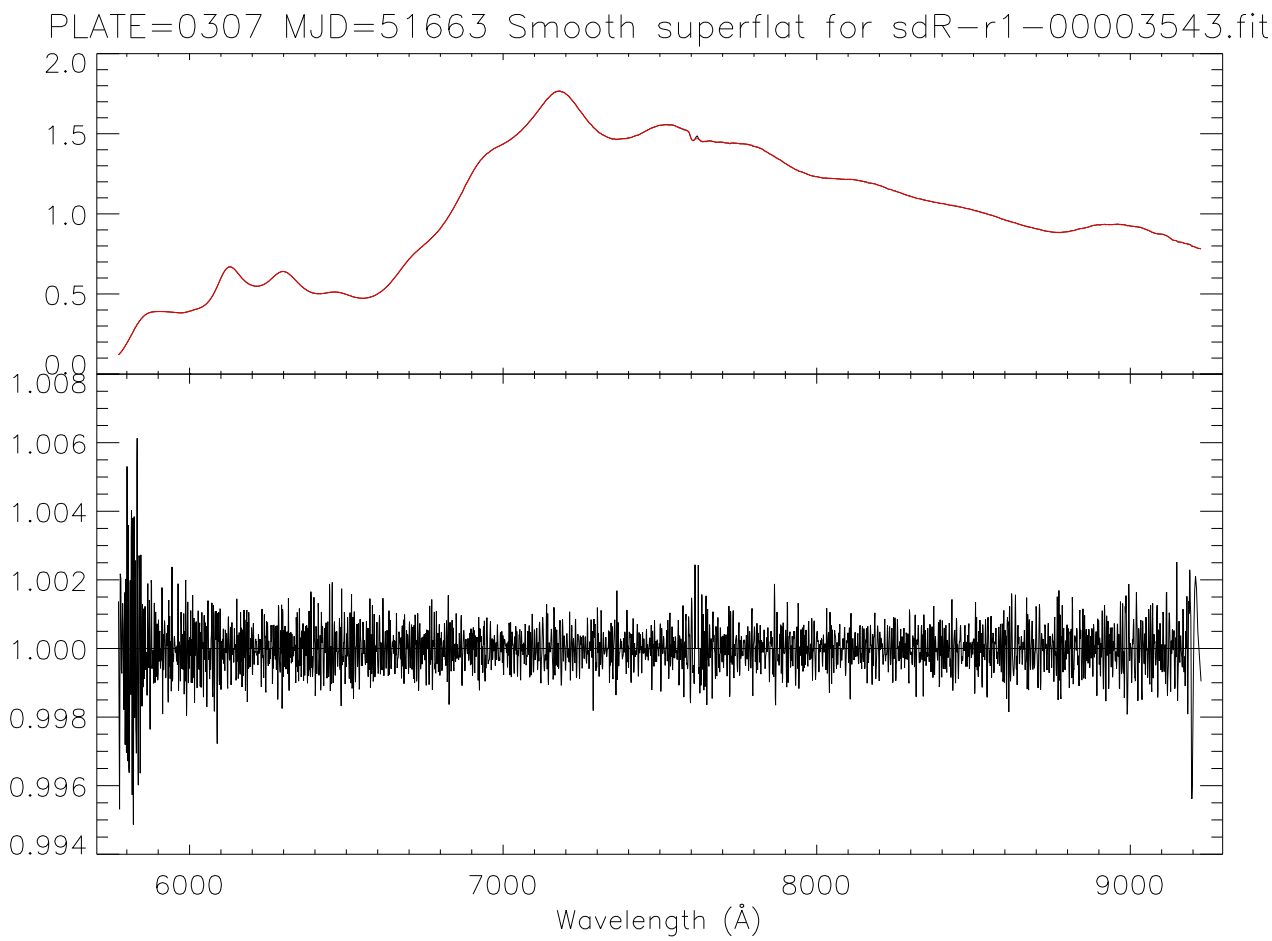

8885.8300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

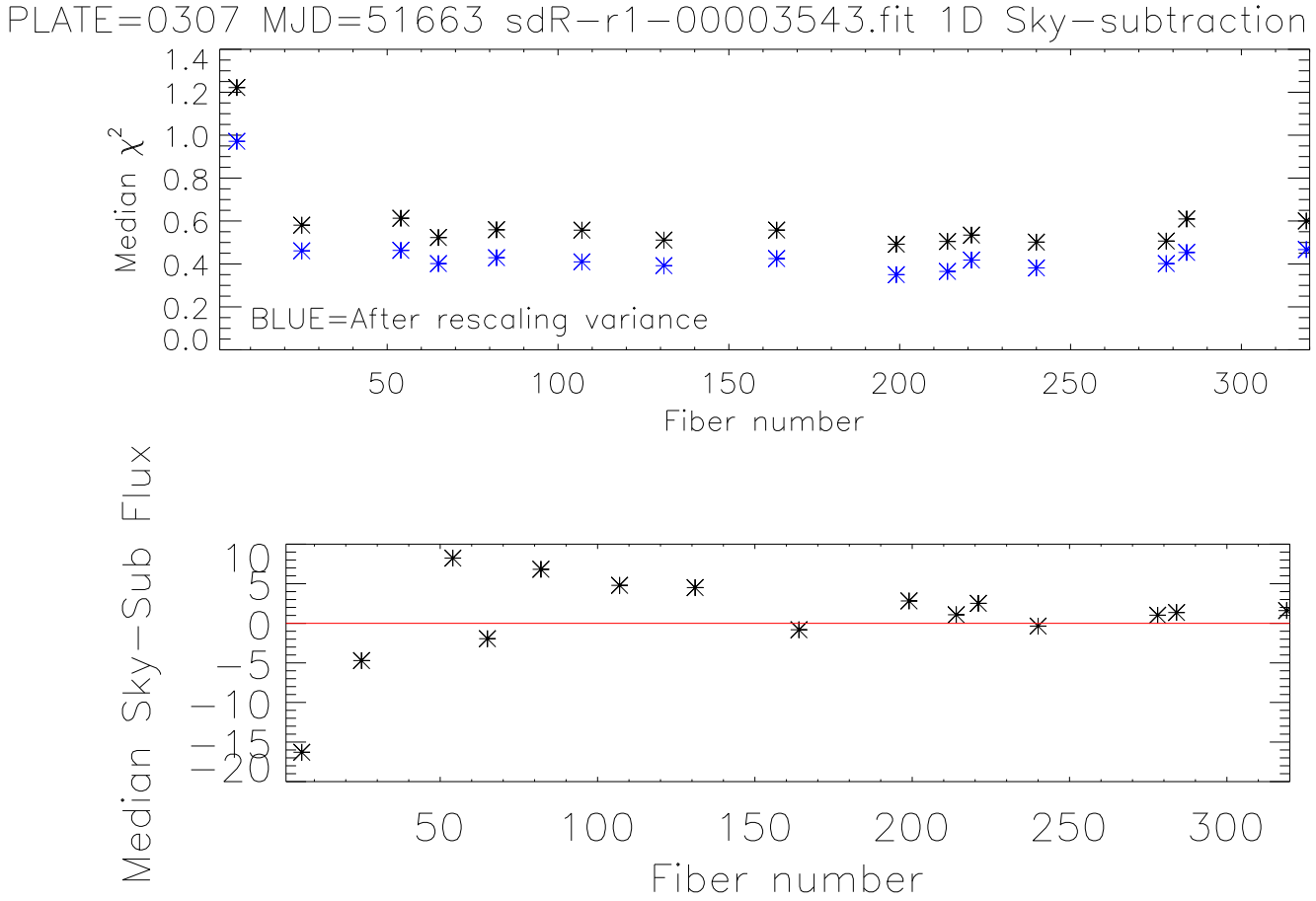

8919.6100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

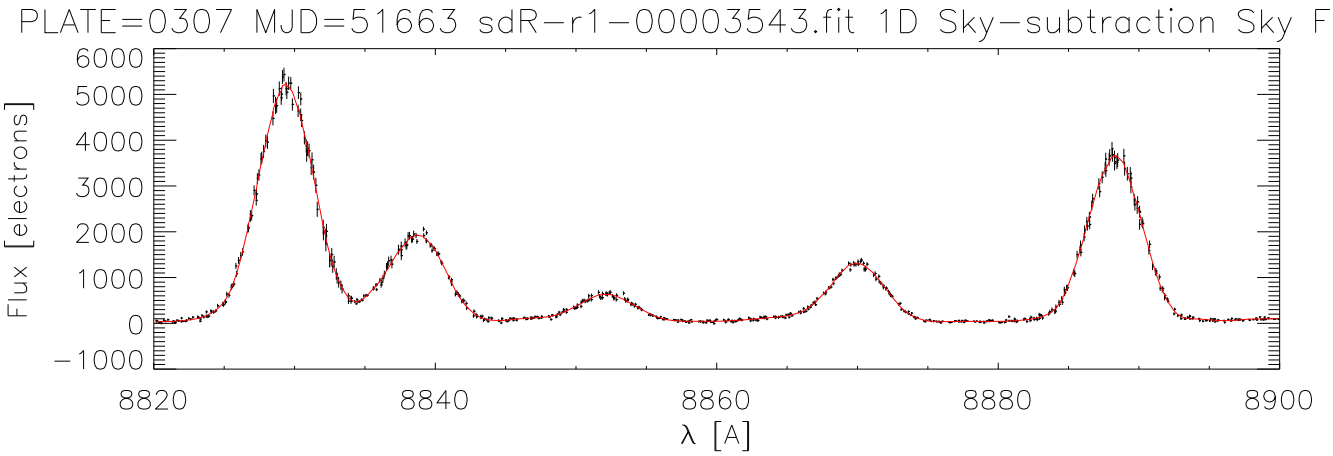

6300.3040
stdev 0.215
extra 0.215
6363.7760
stdev 0.235
extra 0.235
6553.6100
stdev 0.228
extra 0.228
6923.2100
stdev 0.24
extra 0.24
6949.0300
stdev 0.281
extra 0.281
7571.7500
stdev 0.263
extra 0.263
7794.1200
stdev 0.164
extra 0.164
7821.5100
stdev 0.22
extra 0.22
8399.1600
stdev 0.275
extra 0.275
8430.1700
stdev 0.266
extra 0.266
8885.8300
stdev 0.30
extra 0.30
8919.6100
stdev 0.28
extra 0.28
meas − pred, pix
mfib2 16
mfib1 16

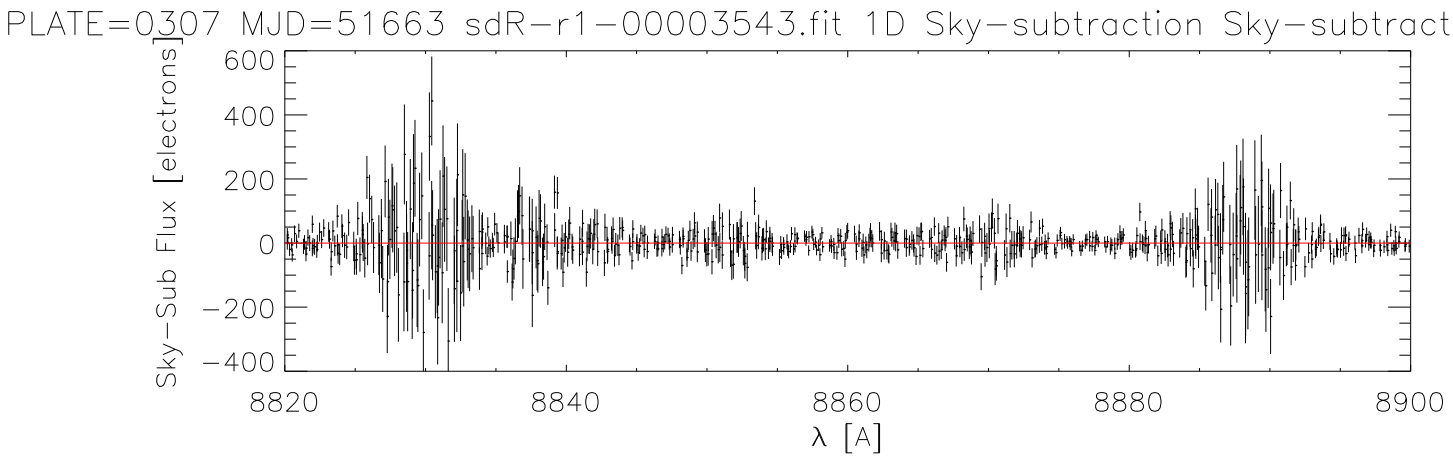

sky shift, pixels
0.30
0.28
0.26
0.24
0.22
0.20
0.18
0.16
5000
6000
7000
8000
9000
10000

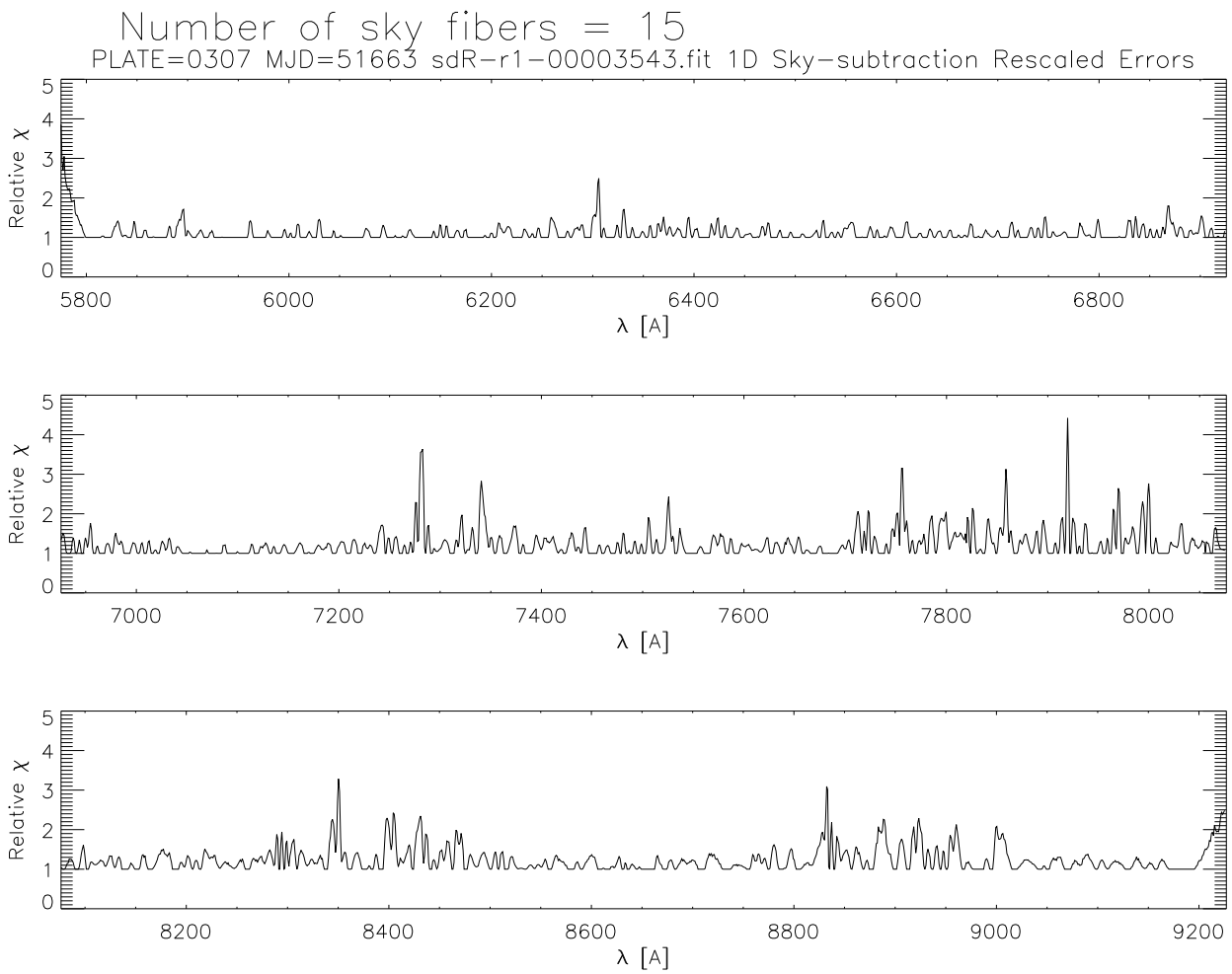
es= 0.0000

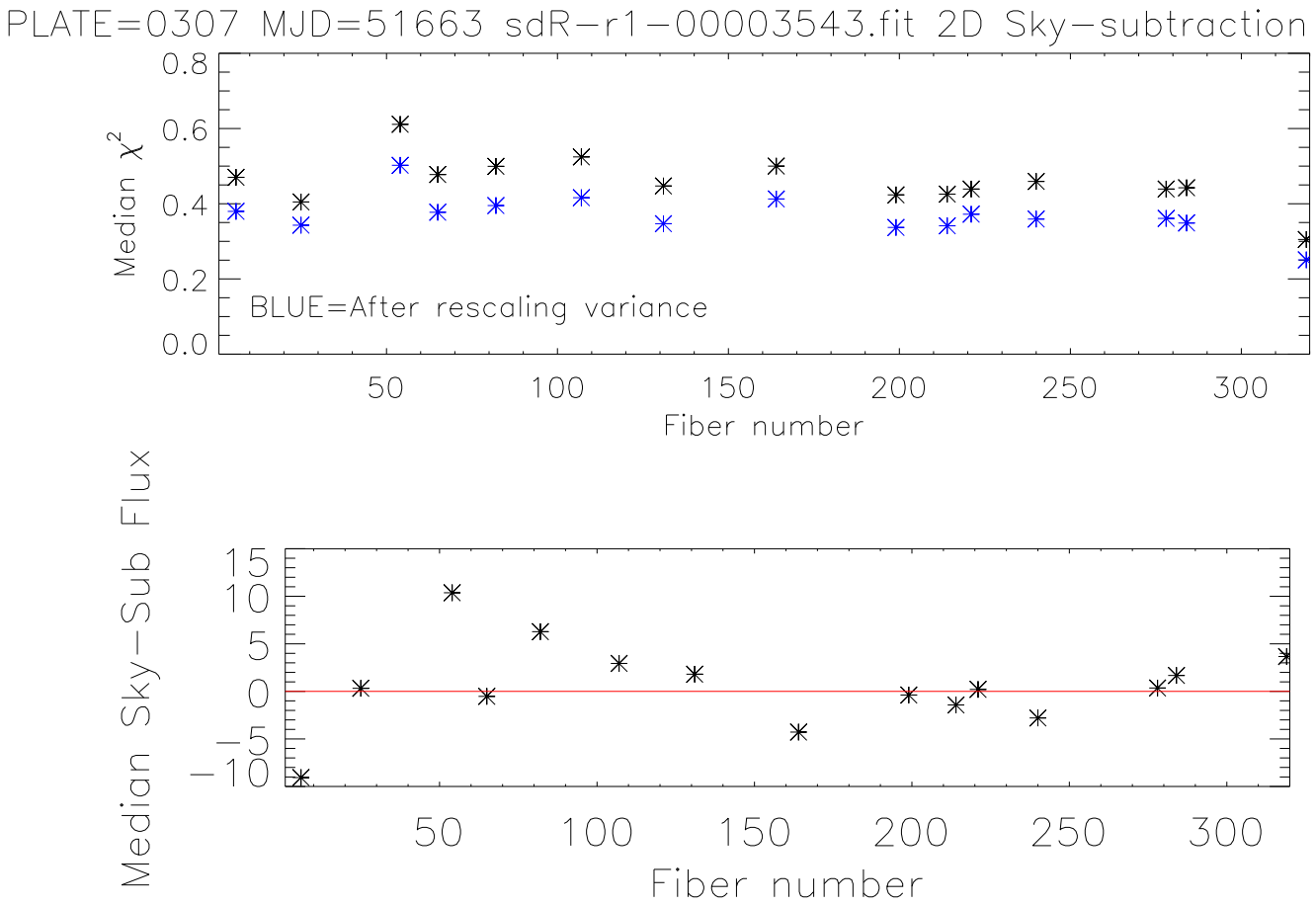

PLATE=0307 MJD=51663 Smooth superflat for sdR-r1-00003543.fit
2.0
1.5
1.0
0.5
0.0
1.008
1.006
1.004
1.002
1.000
0.998
0.996
0.994
6000
7000
8000
9000
Wavelength (Å)

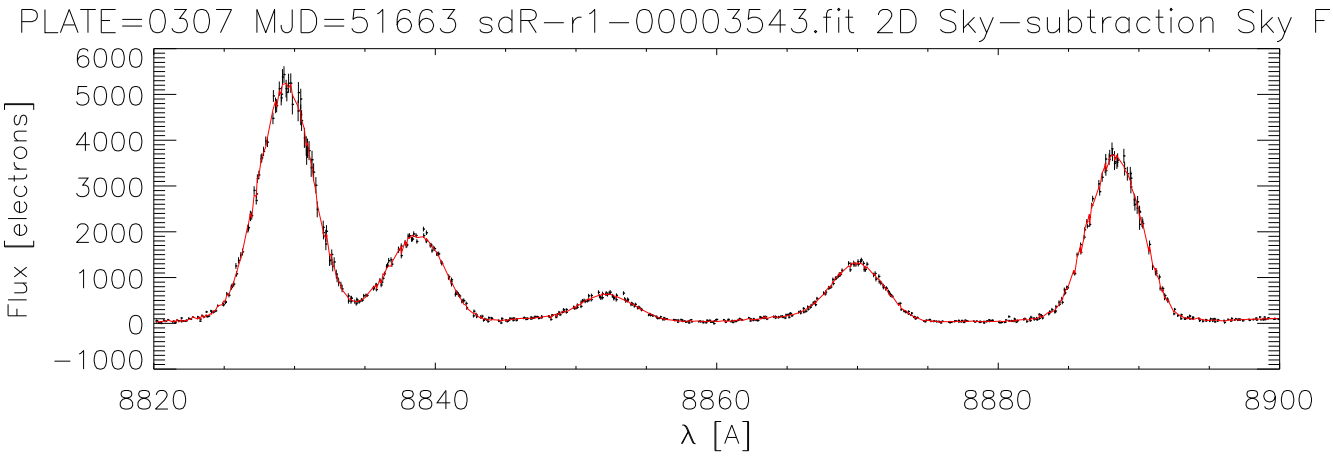

PLATE=0307 MJD=51663 sdR-r1-00003543.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

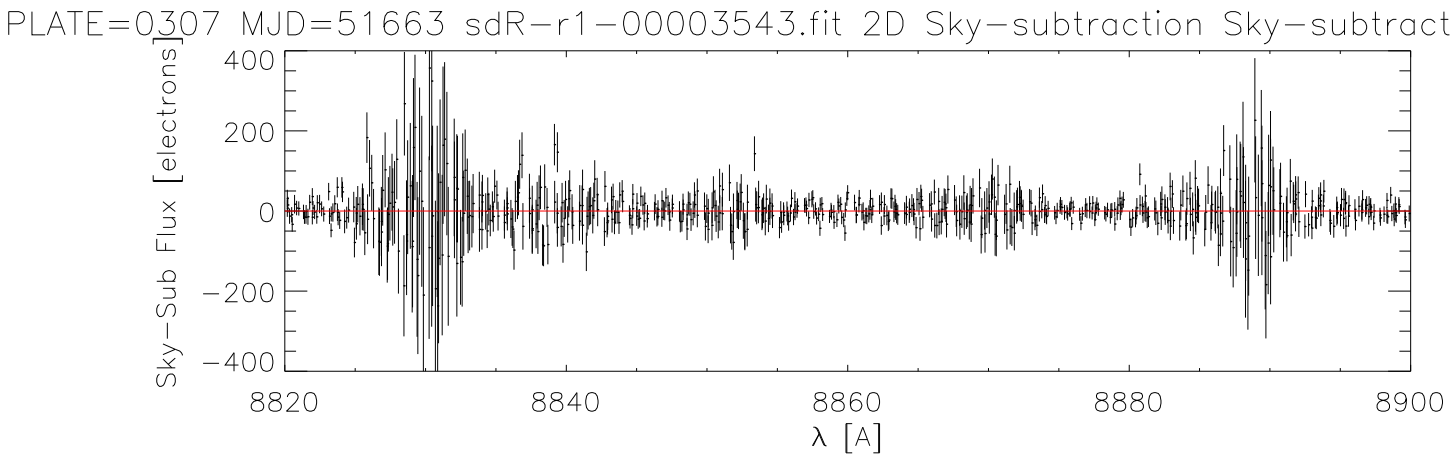

PLATE=0307 MJD=51663 sdR-r1-00003543.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

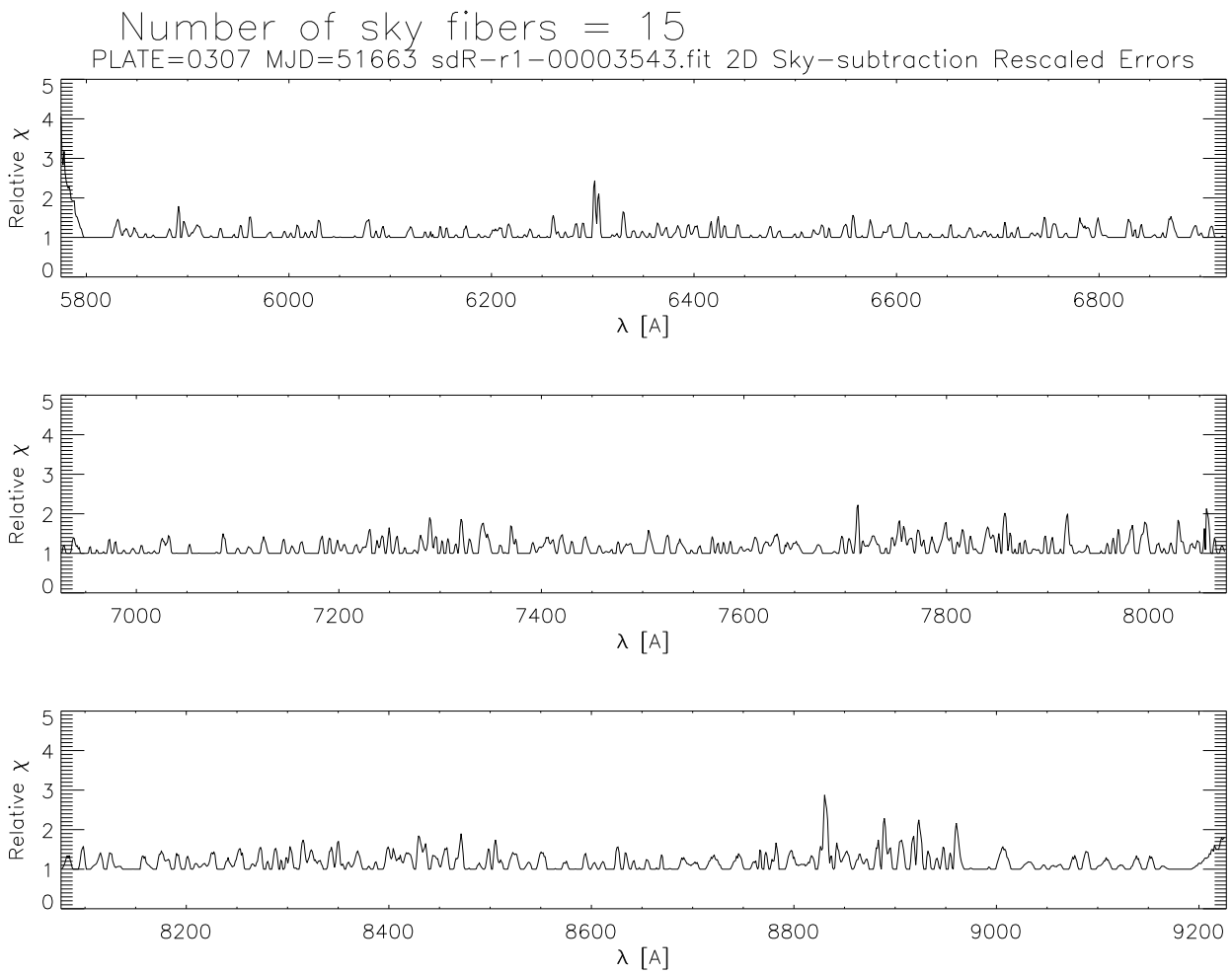

PLATE=0307 MJD=51663 sdR-r1-00003543.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

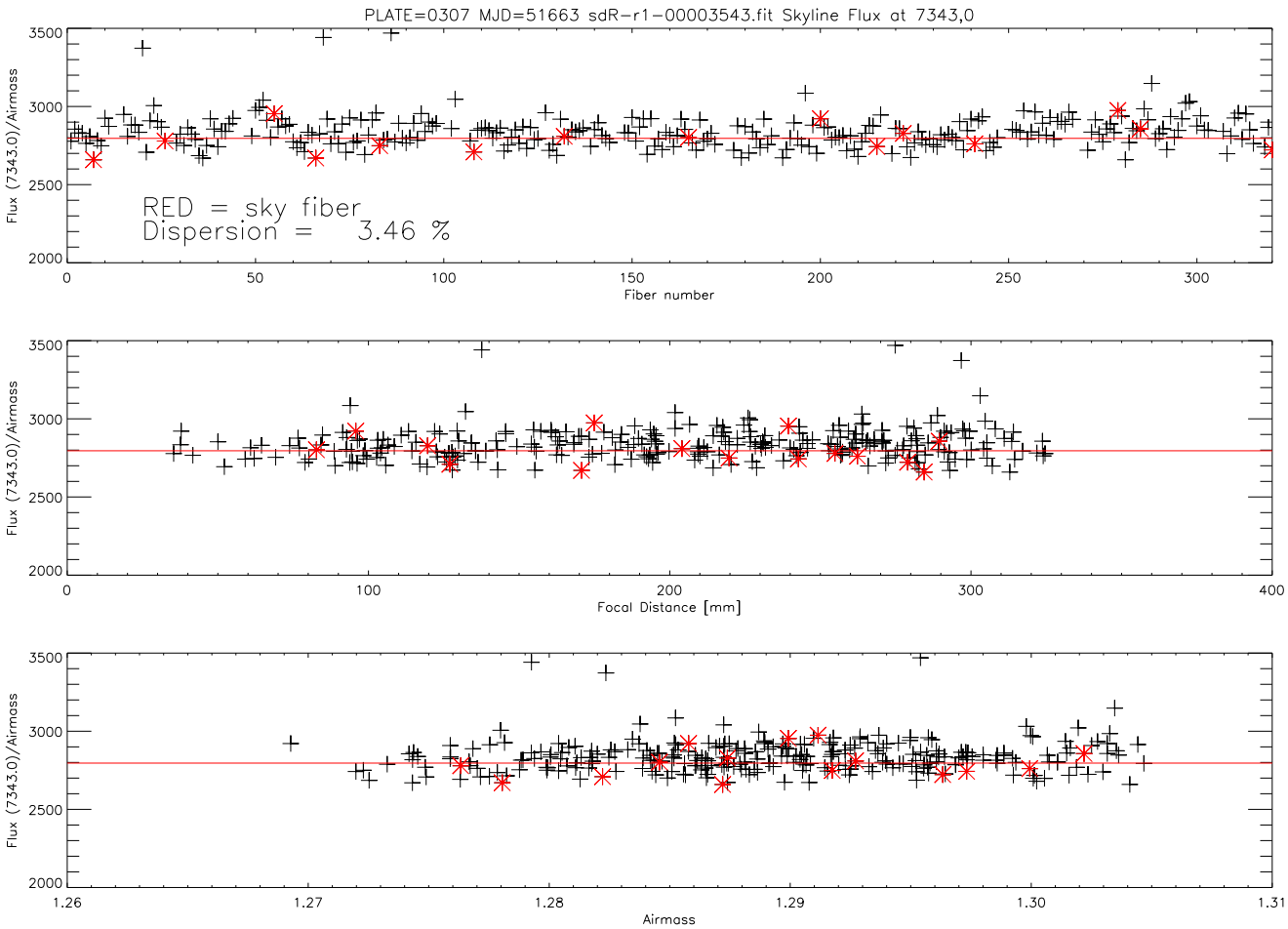

Number of sky fibers = 15
PLATE=0307 MJD=51663 sdR-r1-00003543.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

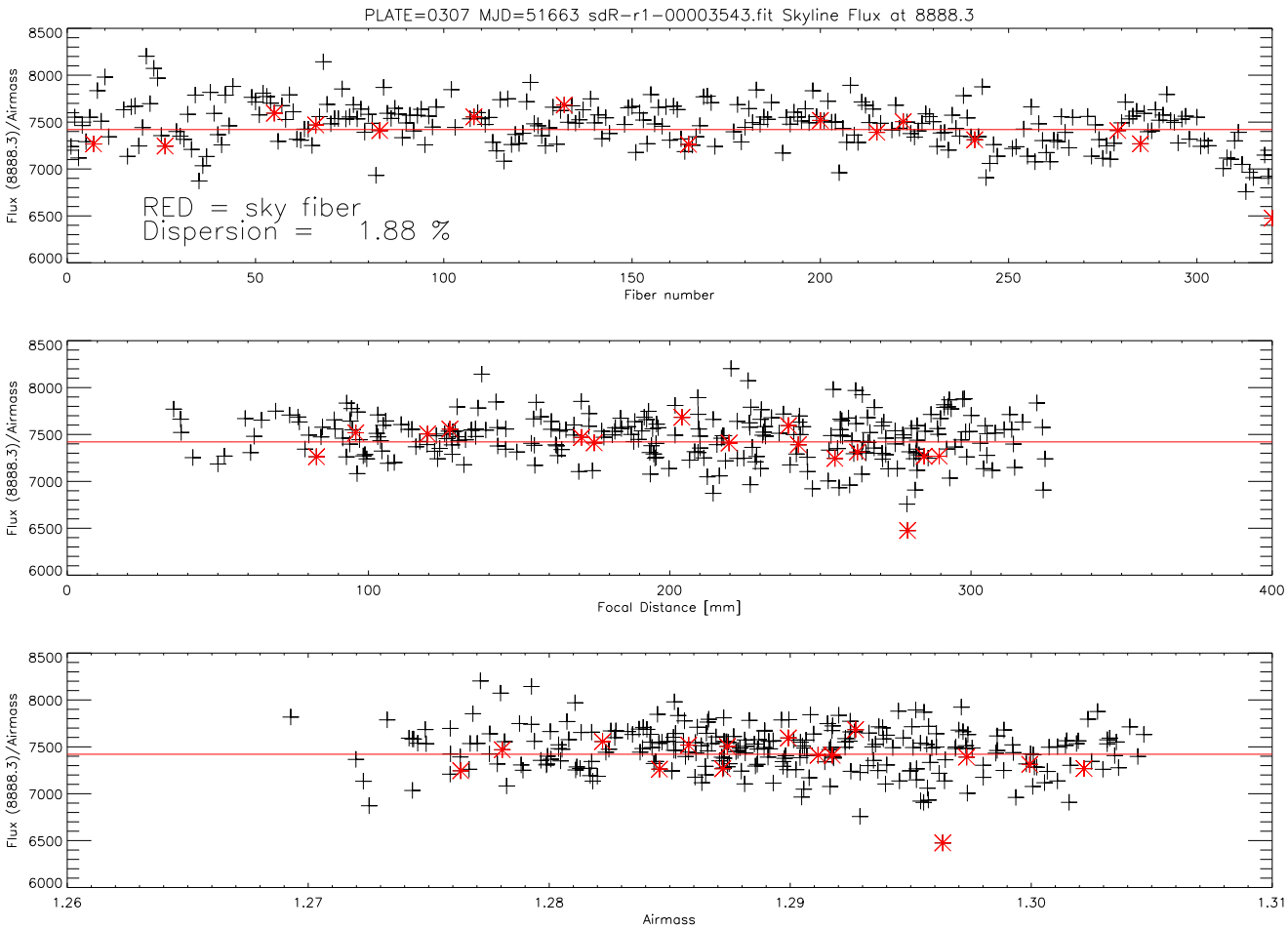

PLATE=0307 MJD=51663 sdR-r1-00003543.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

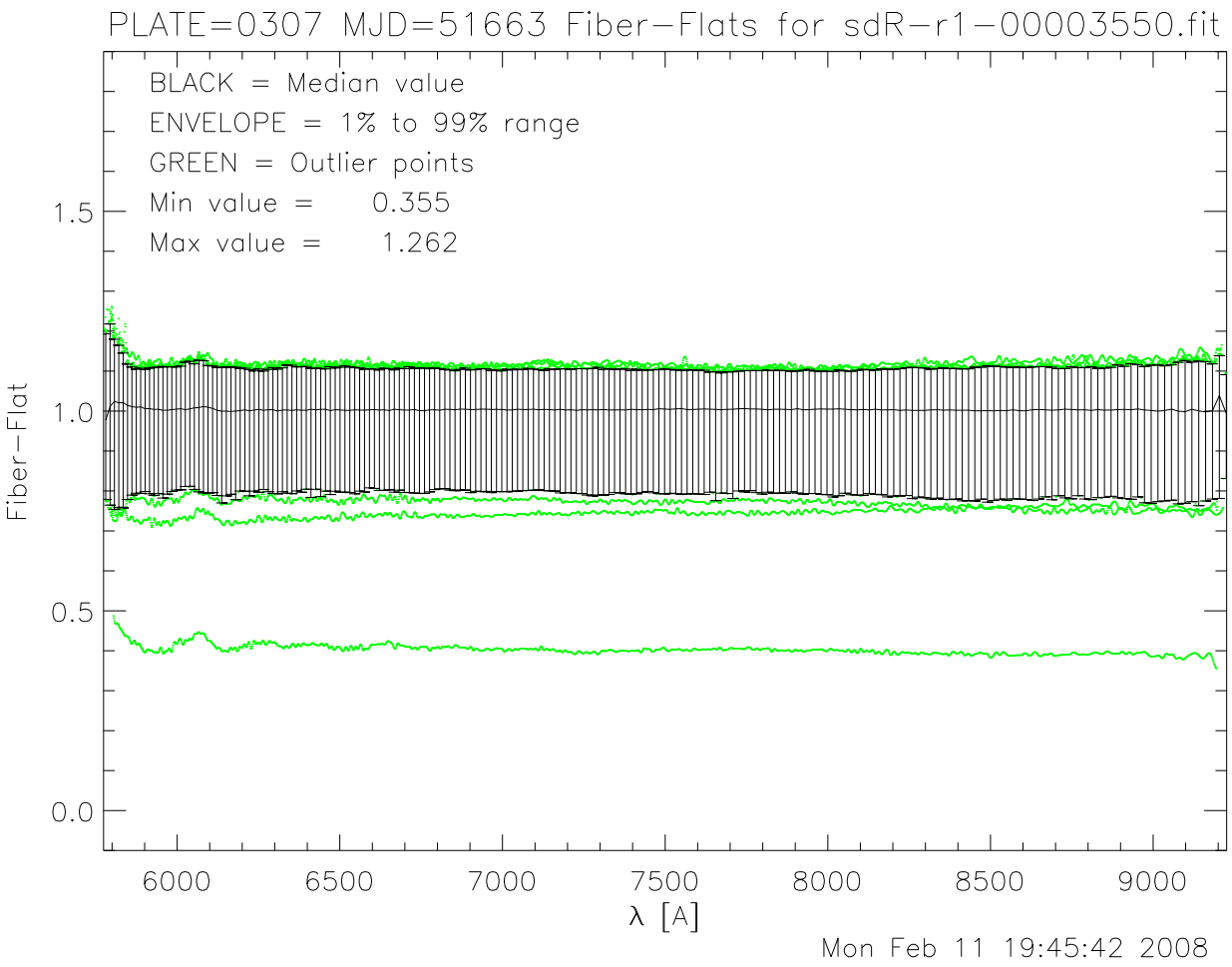

PLATE=0307 MJD=51663 sdR-r1-00003543.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
−1000
8820
8840
8860
8880
8900
λ [A]

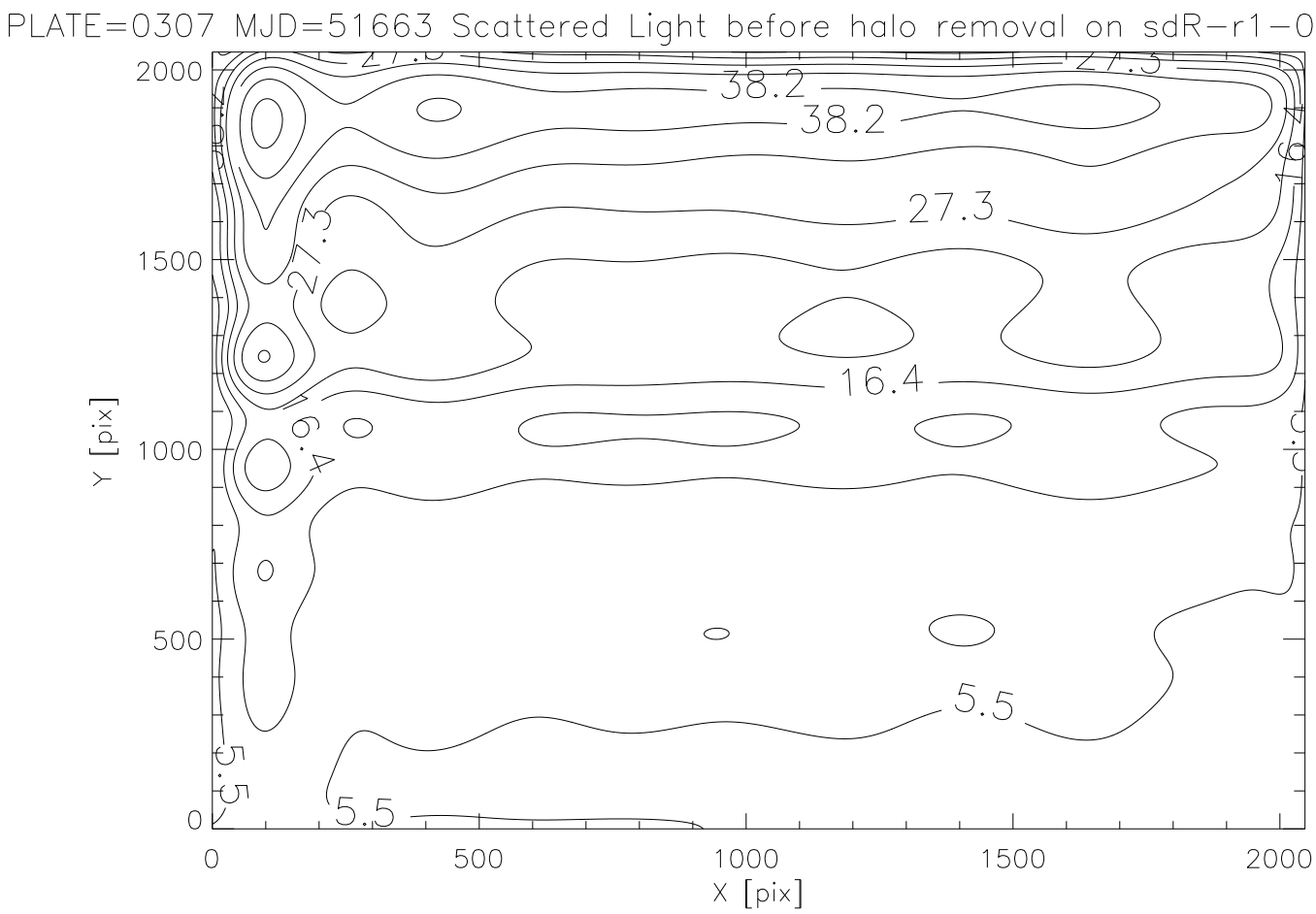

PLATE=0307 MJD=51663 sdR-r1-00003543.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
−200
−400
8820
8840
8860
8880
8900
λ [A]

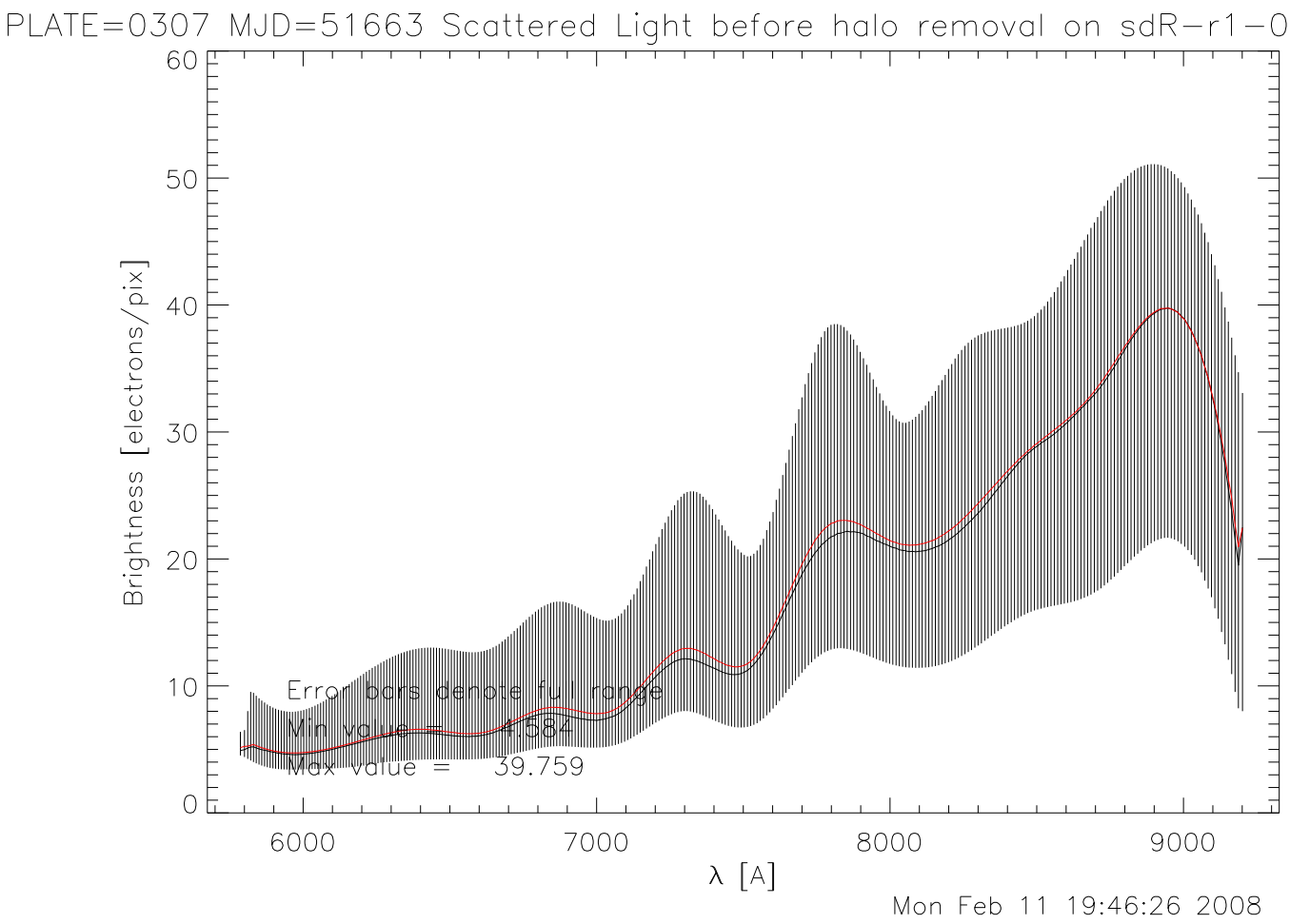

Number of sky fibers = 15
PLATE=0307 MJD=51663 sdR-r1-00003543.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

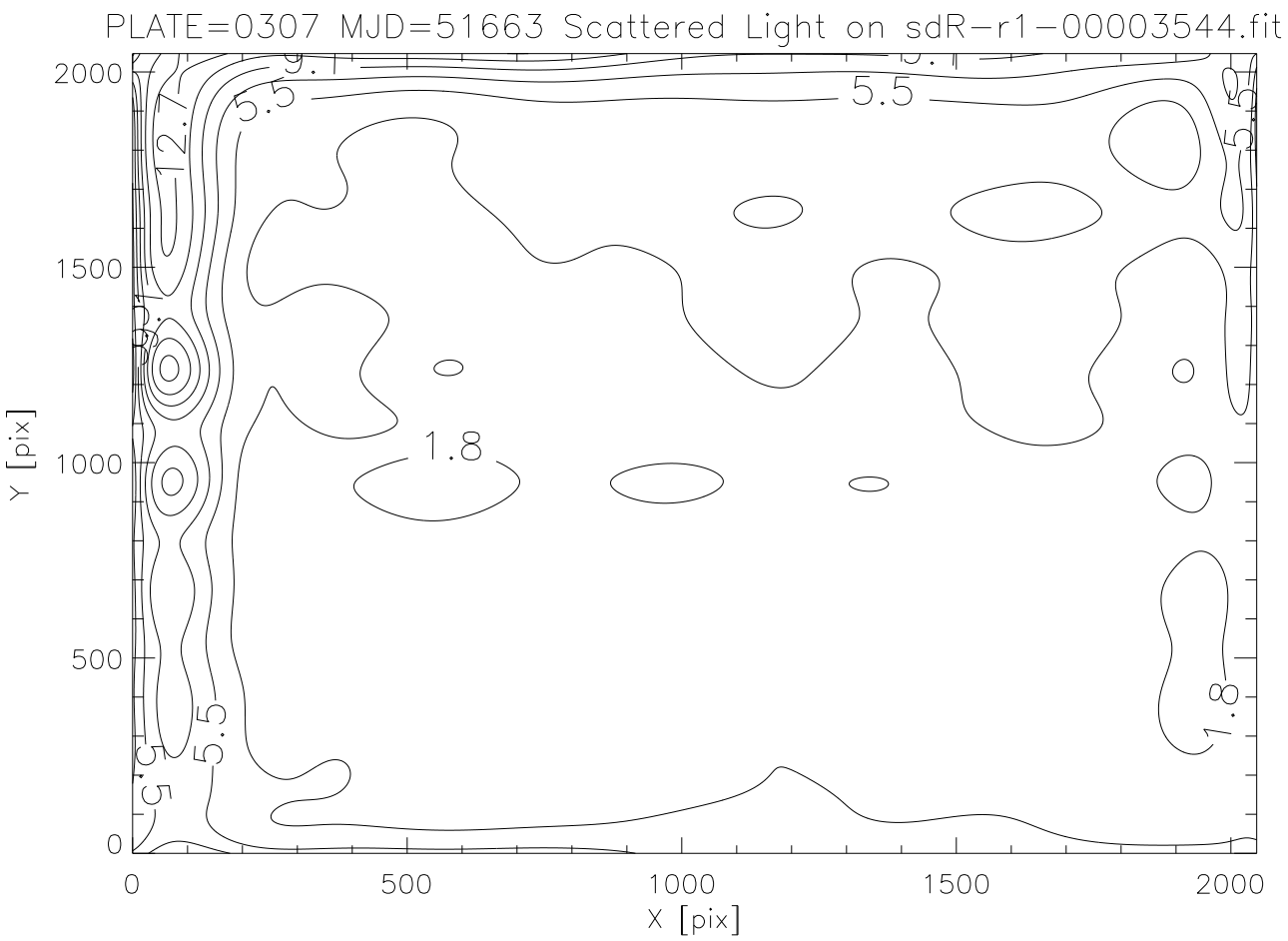

PLATE=0307 MJD=51663 sdR-r1-00003543.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.46 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

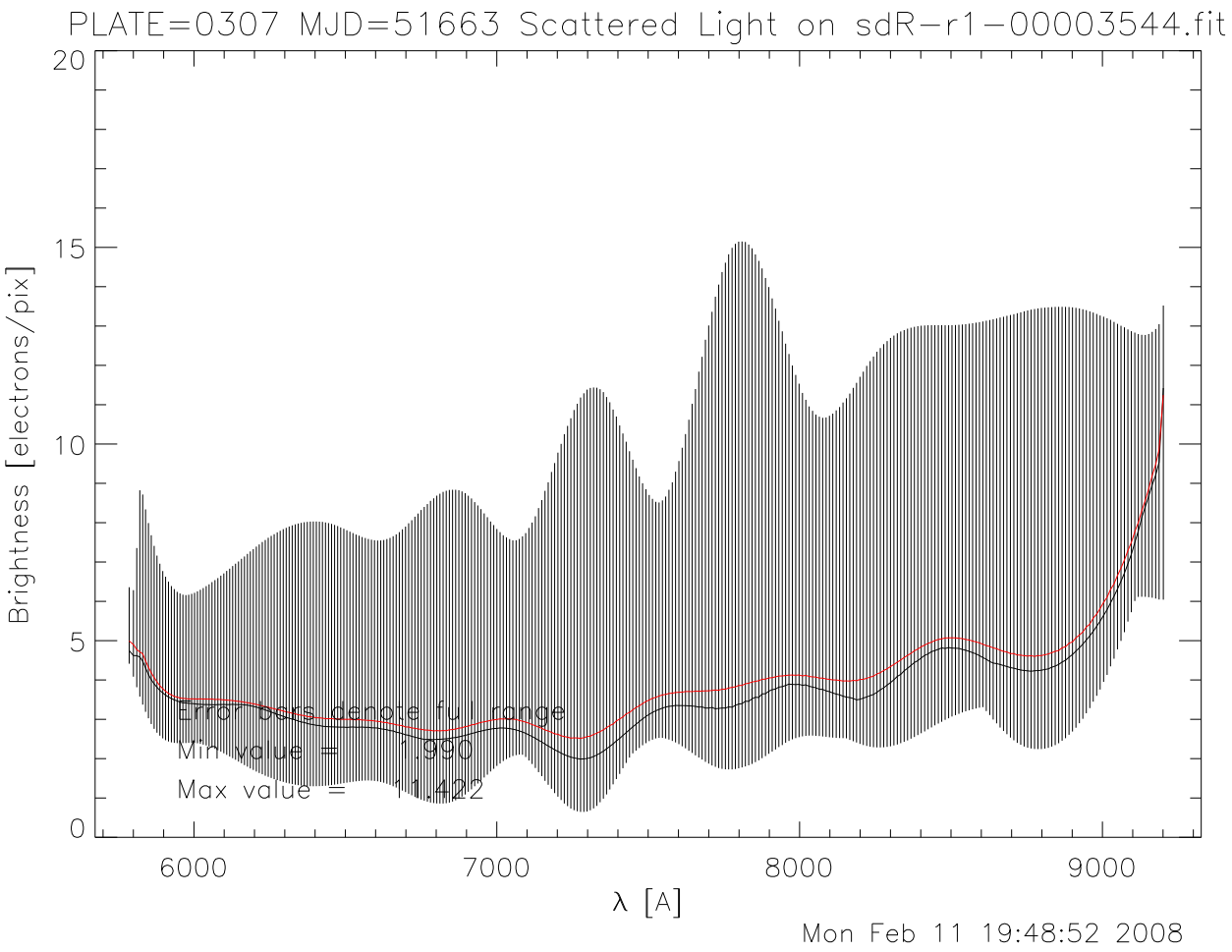

PLATE=0307 MJD=51663 sdR-r1-00003543.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.88 %
Fiber number
Focal Distance [mm]
Airmass

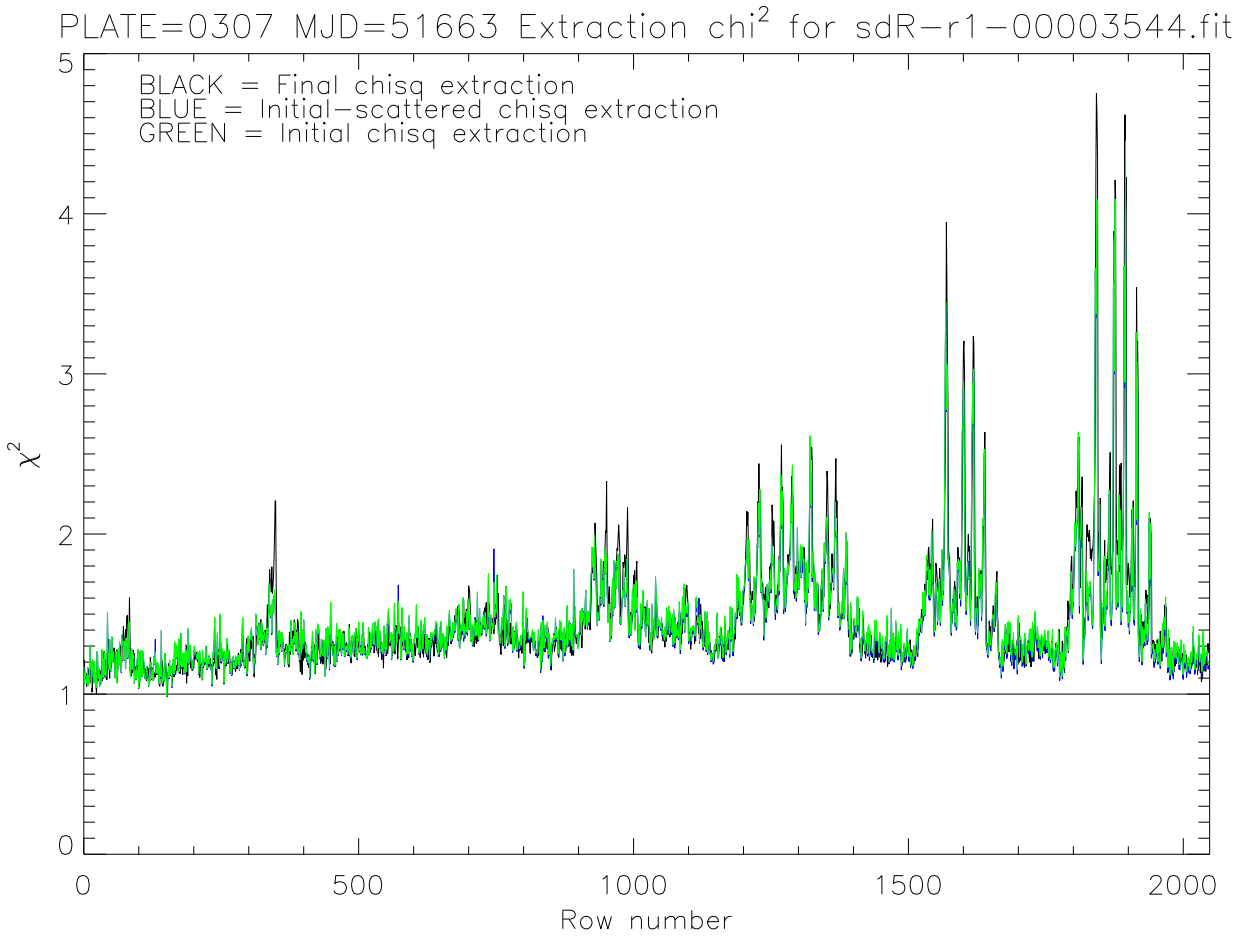

PLATE=0307 MJD=51663 Fiber−Flats for sdR−r1−00003550.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.355
Max value = 1.262
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 11 19:45:42 2008

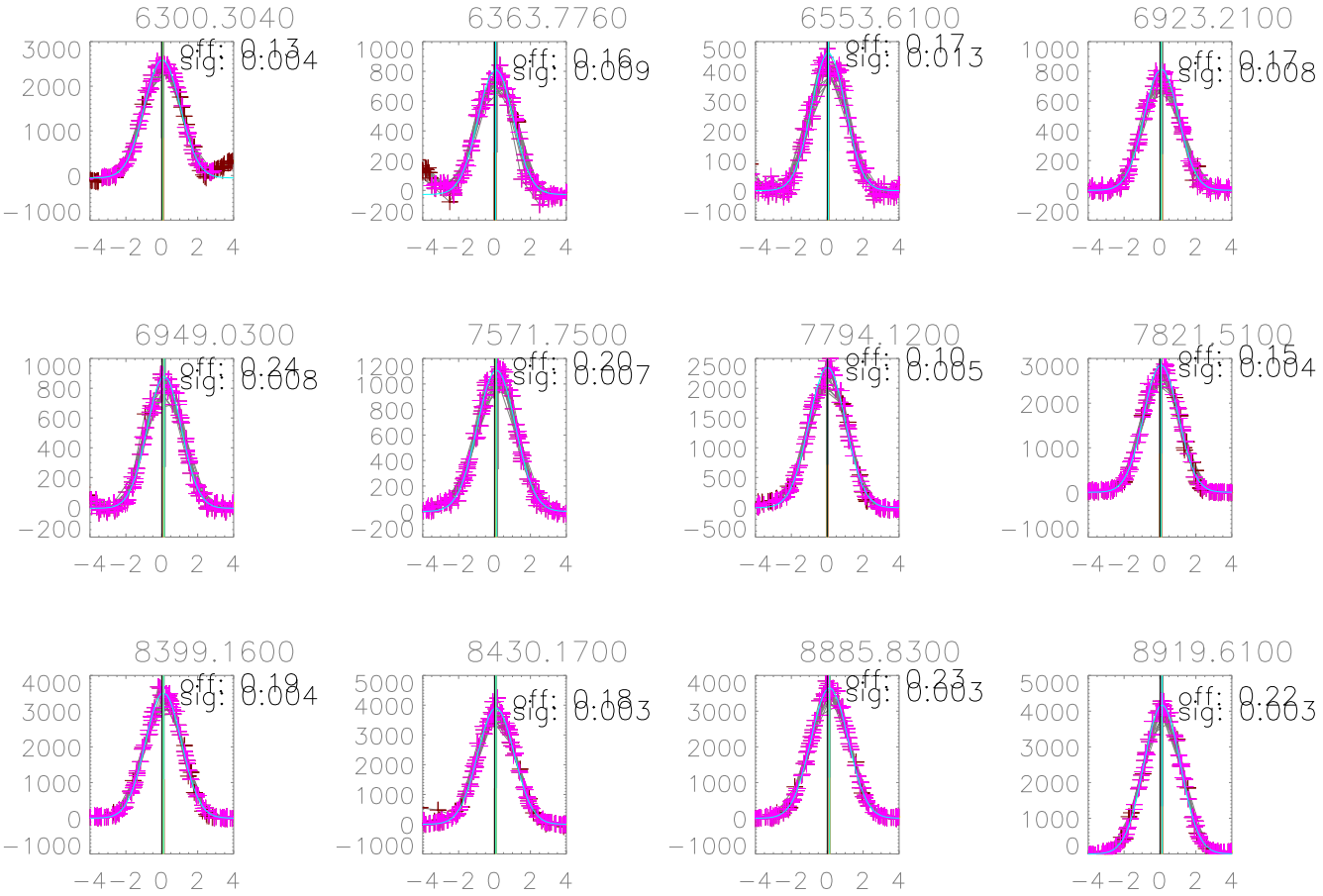

PLATE=0307 MJD=51663 Scattered Light before halo removal on sdR-r1-00003544.fi
38.2
38.2
27.3
27.3
16.4
5.5
5.5
Y [pix]
X [pix]
0
500
1000
1500
2000

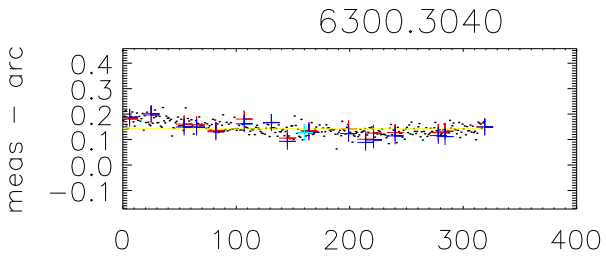

PLATE=0307 MJD=51663 Scattered Light before halo removal on sdR-r1-00003544.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.584
Max value = 39.759
Mon Feb 11 19:46:26 2008

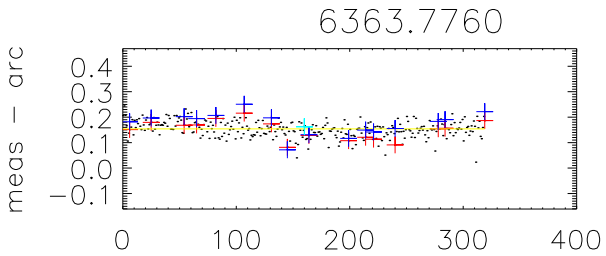

PLATE=0307 MJD=51663 Scattered Light on sdR-r1-00003544.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
5.5
1.8

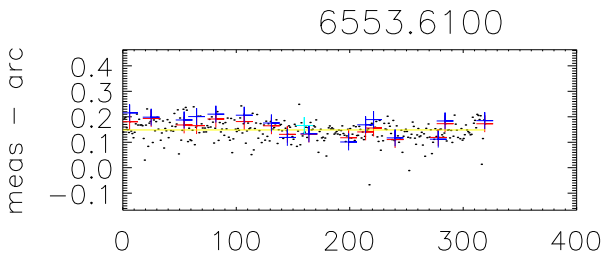

PLATE=0307 MJD=51663 Scattered Light on sdR-r1-00003544.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = -.990
Max value = 11.422
Mon Feb 11 19:48:52 2008

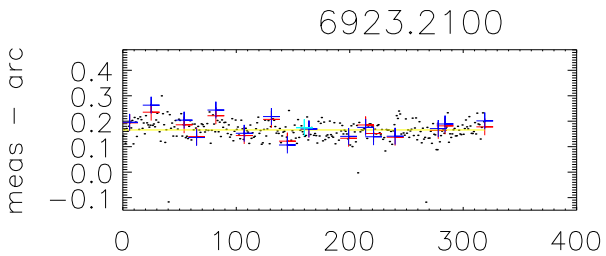

PLATE=0307 MJD=51663 Extraction chi^2 for sdR-r1-00003544.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

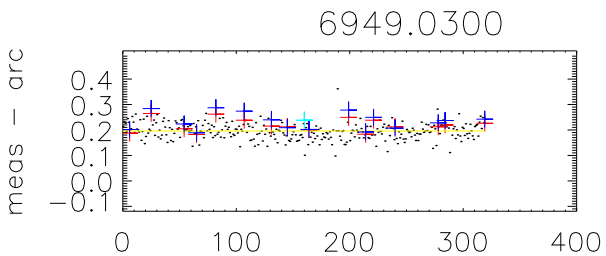

6300.3040
off: 0.13
sig: 0.004
6363.7760
off: 0.16
sig: 0.009
6553.6100
off: 0.17
sig: 0.013
6923.2100
off: 0.17
sig: 0.008
6949.0300
off: 0.24
sig: 0.008
7571.7500
off: 0.20
sig: 0.007
7794.1200
off: 0.10
sig: 0.005
7821.5100
off: 0.15
sig: 0.004
8399.1600
off: 0.19
sig: 0.004
8430.1700
off: 0.18
sig: 0.003
8885.8300
off: 0.23
sig: 0.003
8919.6100
off: 0.22
sig: 0.003

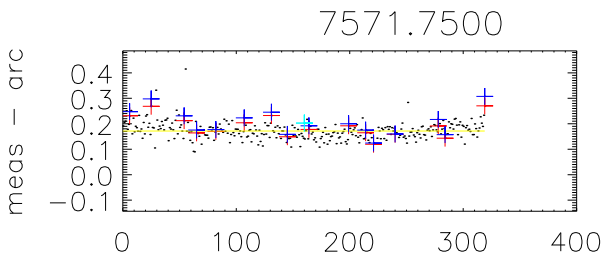

6300.3040
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

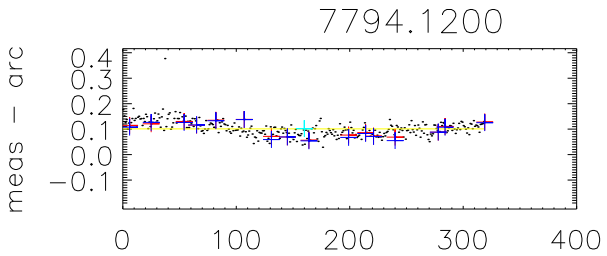

6363.7760
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

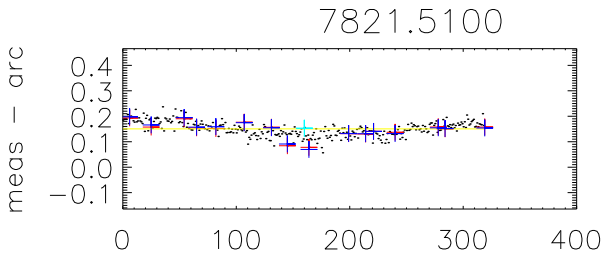

6553.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

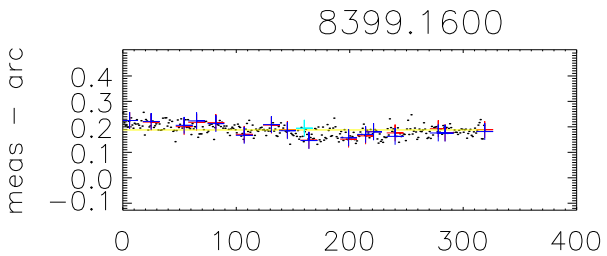

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

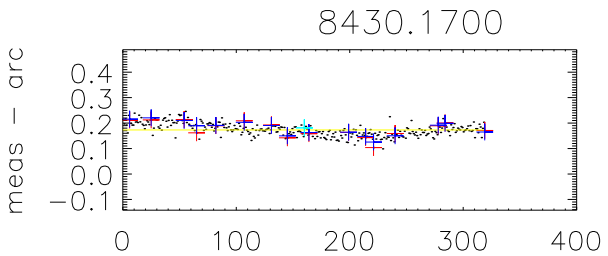

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

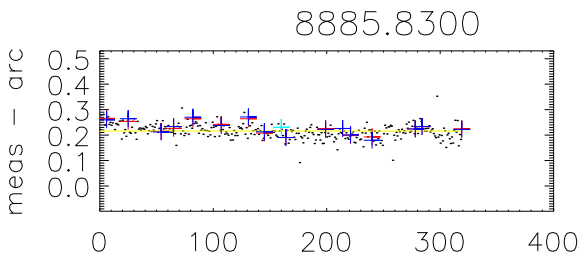

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

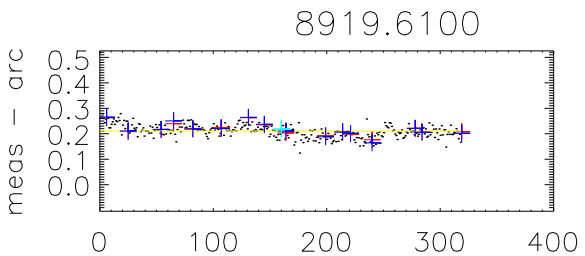

7794.1200
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

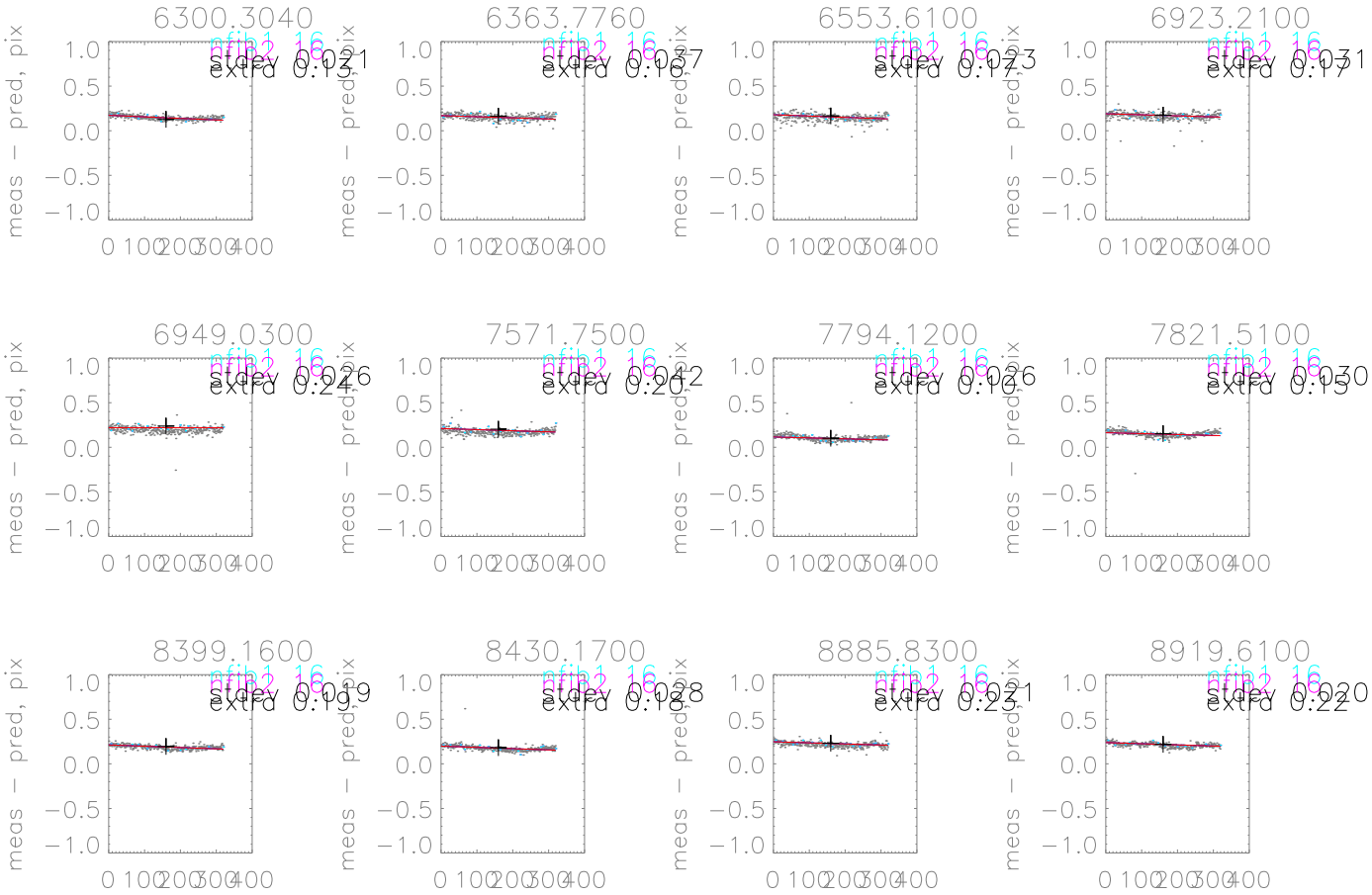

7821.5100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

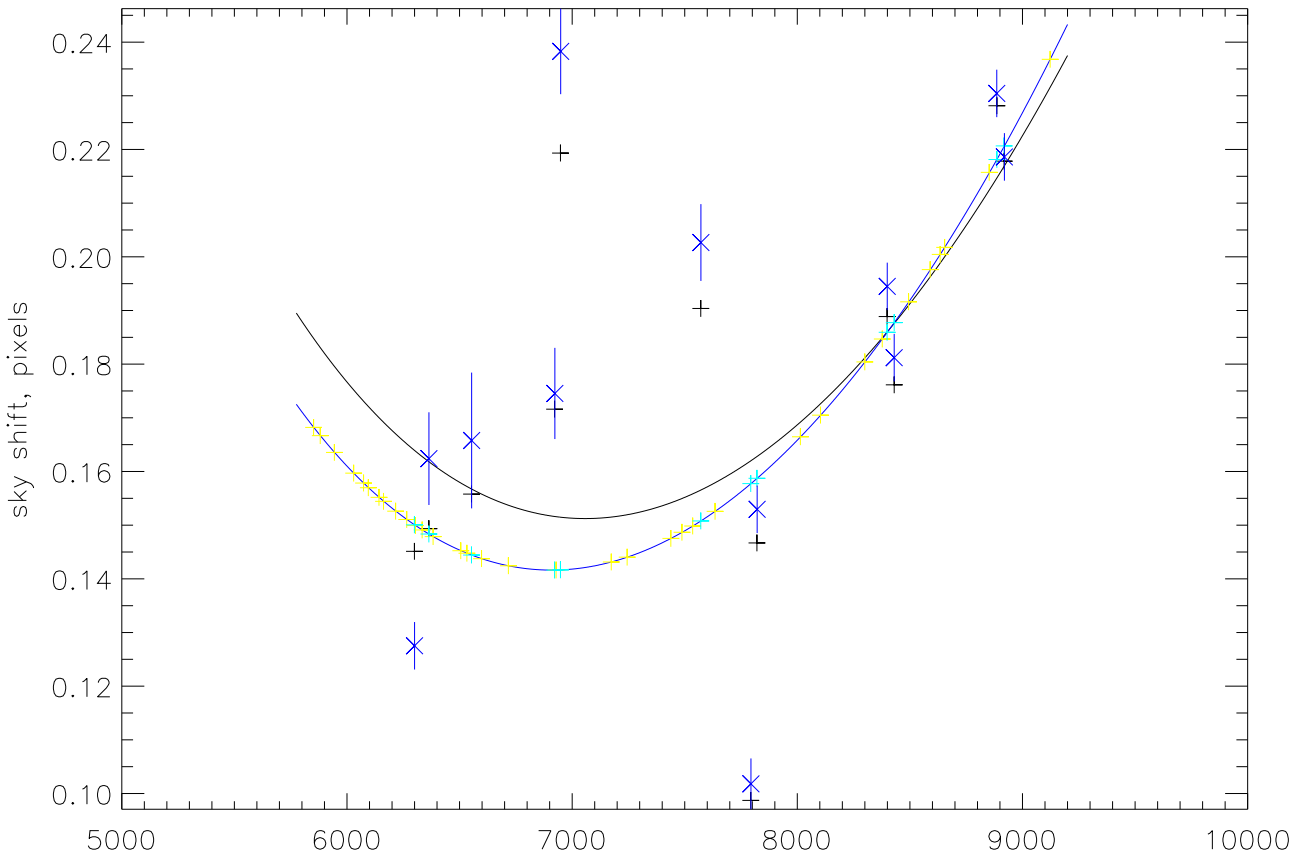

8399.1600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

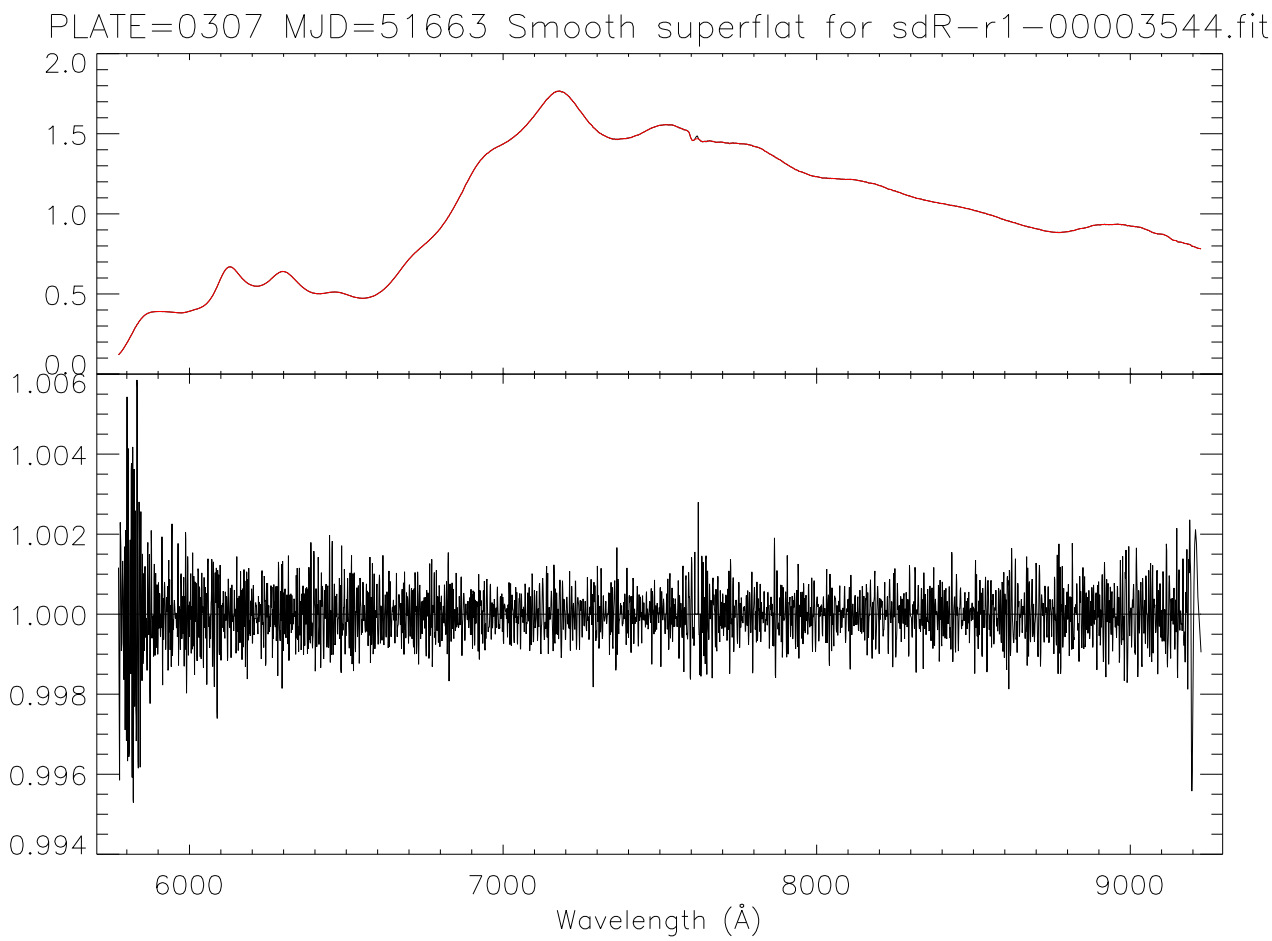

8885.8300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

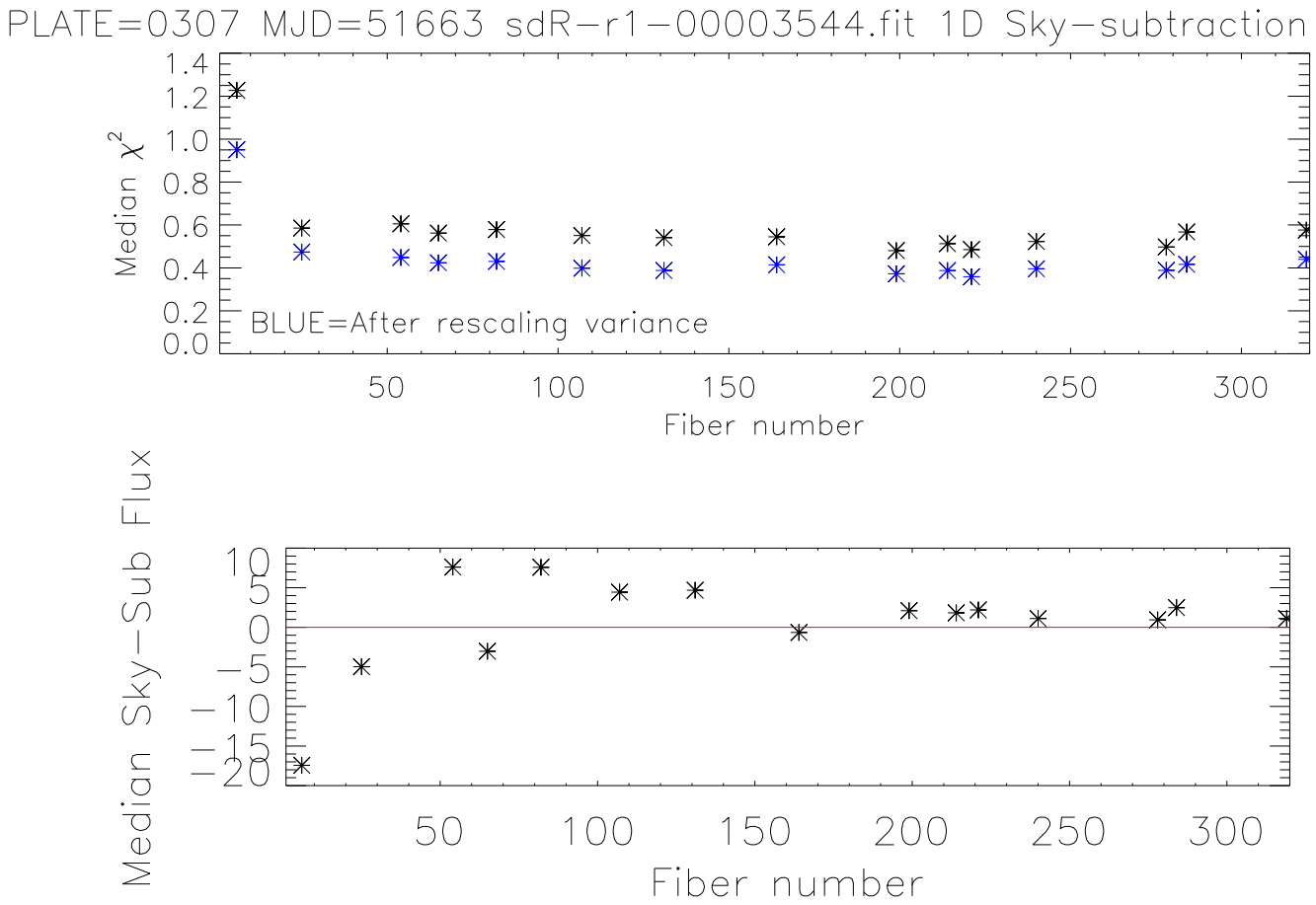

8919.6100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

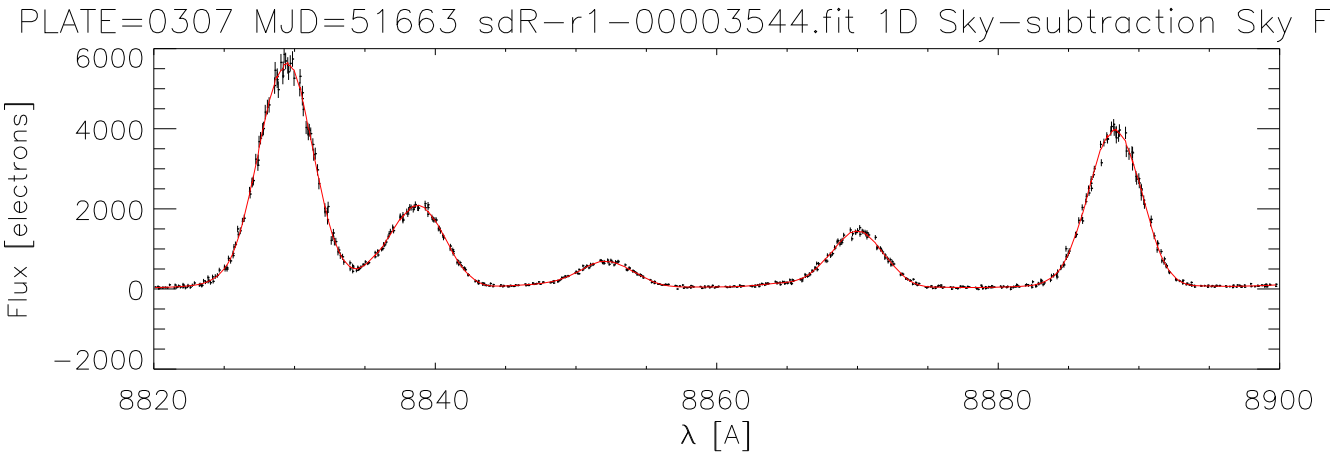

6300.3040
stdev 0.021
extra 0.13
6363.7760
stdev 0.037
extra 0.16
6553.6100
stdev 0.023
extra 0.17
6923.2100
stdev 0.031
extra 0.17
6949.0300
stdev 0.026
extra 0.24
7571.7500
stdev 0.042
extra 0.20
7794.1200
stdev 0.026
extra 0.16
7821.5100
stdev 0.030
extra 0.15
8399.1600
stdev 0.049
extra 0.19
8430.1700
stdev 0.028
extra 0.18
8885.8300
stdev 0.021
extra 0.23
8919.6100
stdev 0.020
extra 0.22
meas − pred, pix
mfib1 16
mfib2 16

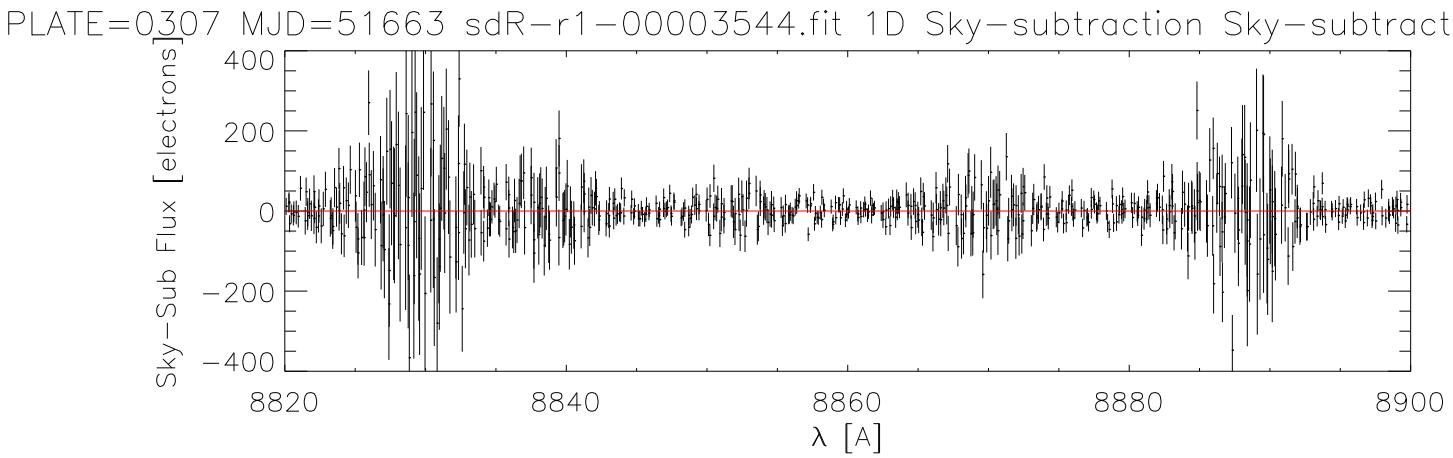

sky shift, pixels
0.24
0.22
0.20
0.18
0.16
0.14
0.12
0.10
5000
6000
7000
8000
9000
10000

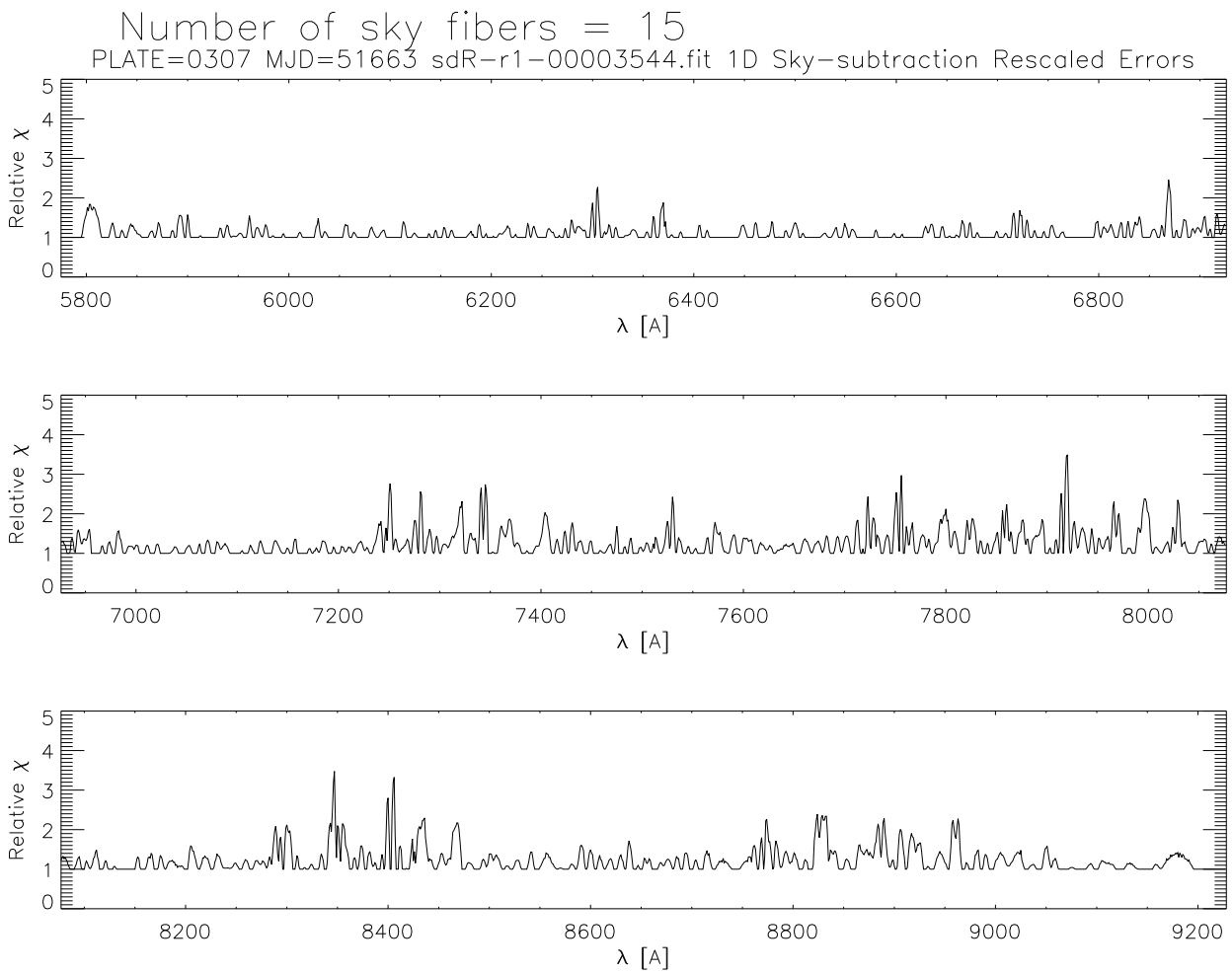
es= 0.0000

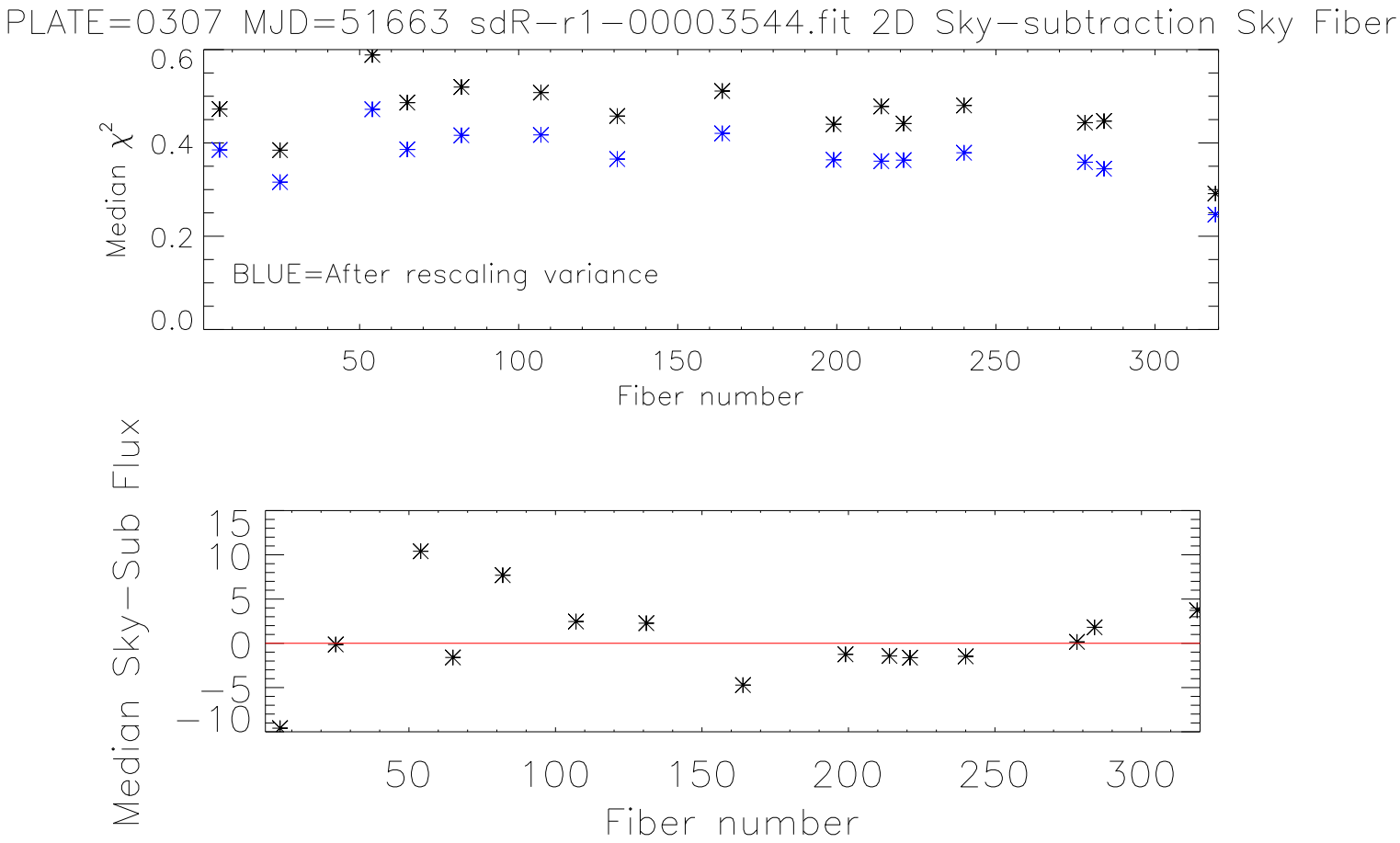

PLATE=0307 MJD=51663 Smooth superflat for sdR-r1-00003544.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
6000
7000
8000
9000
Wavelength (Å)

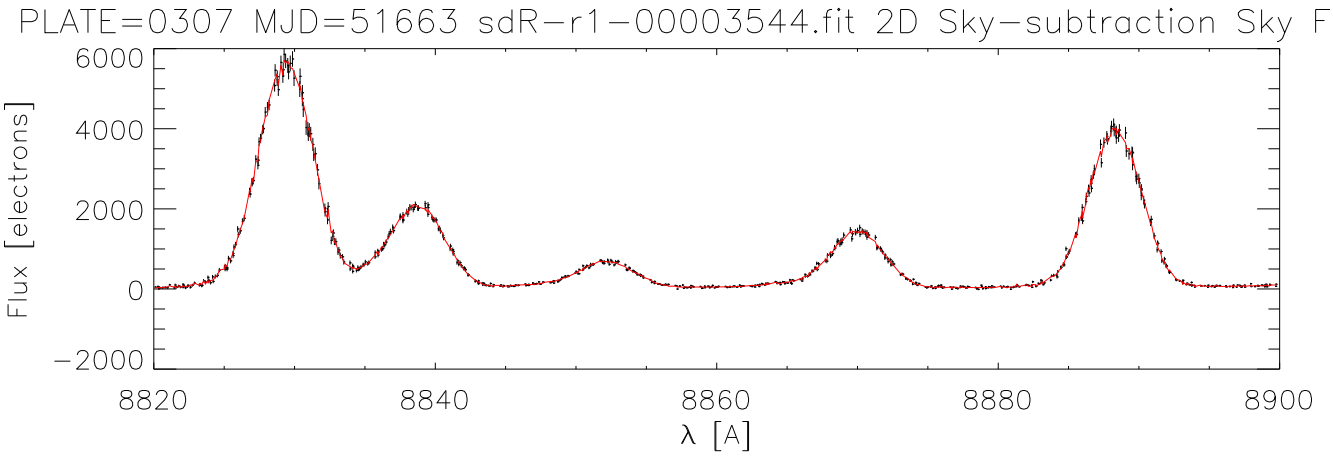

PLATE=0307 MJD=51663 sdR-r1-00003544.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

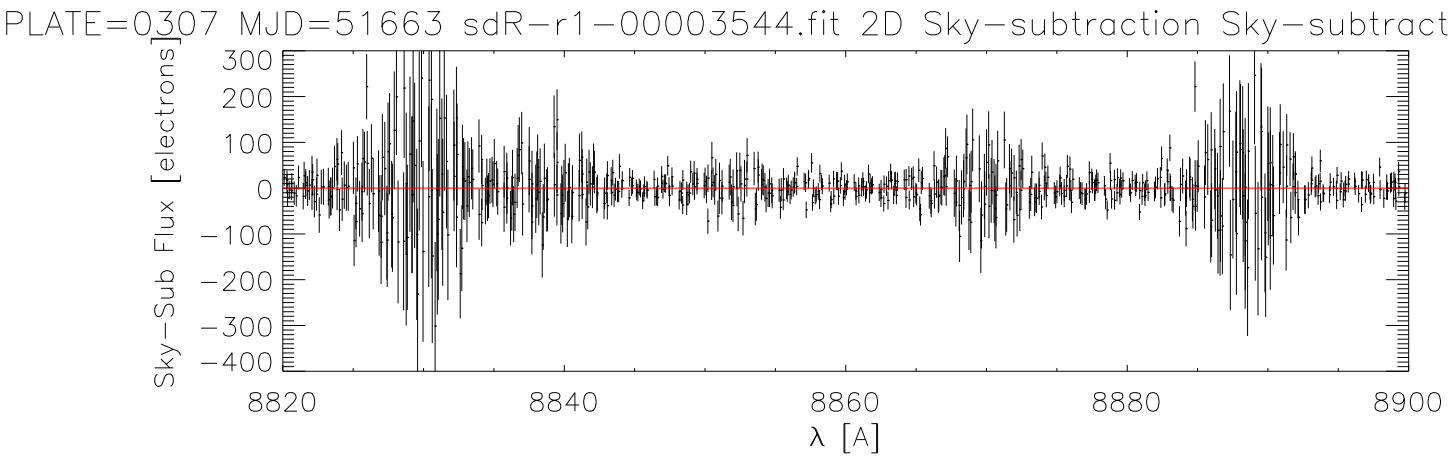

PLATE=0307 MJD=51663 sdR-r1-00003544.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
-2000
8820
8840
8860
8880
8900
λ [A]

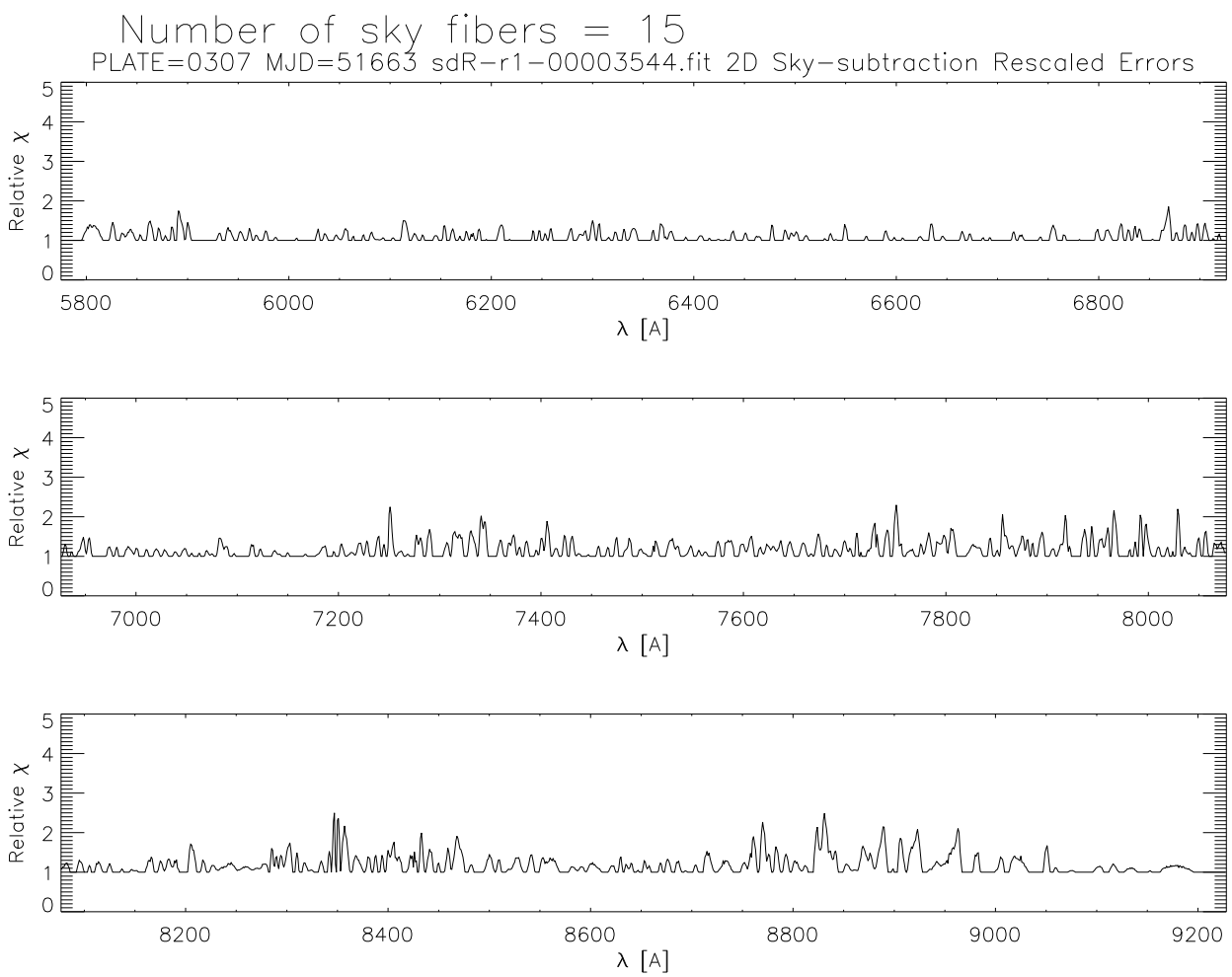

PLATE=0307 MJD=51663 sdR-r1-00003544.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

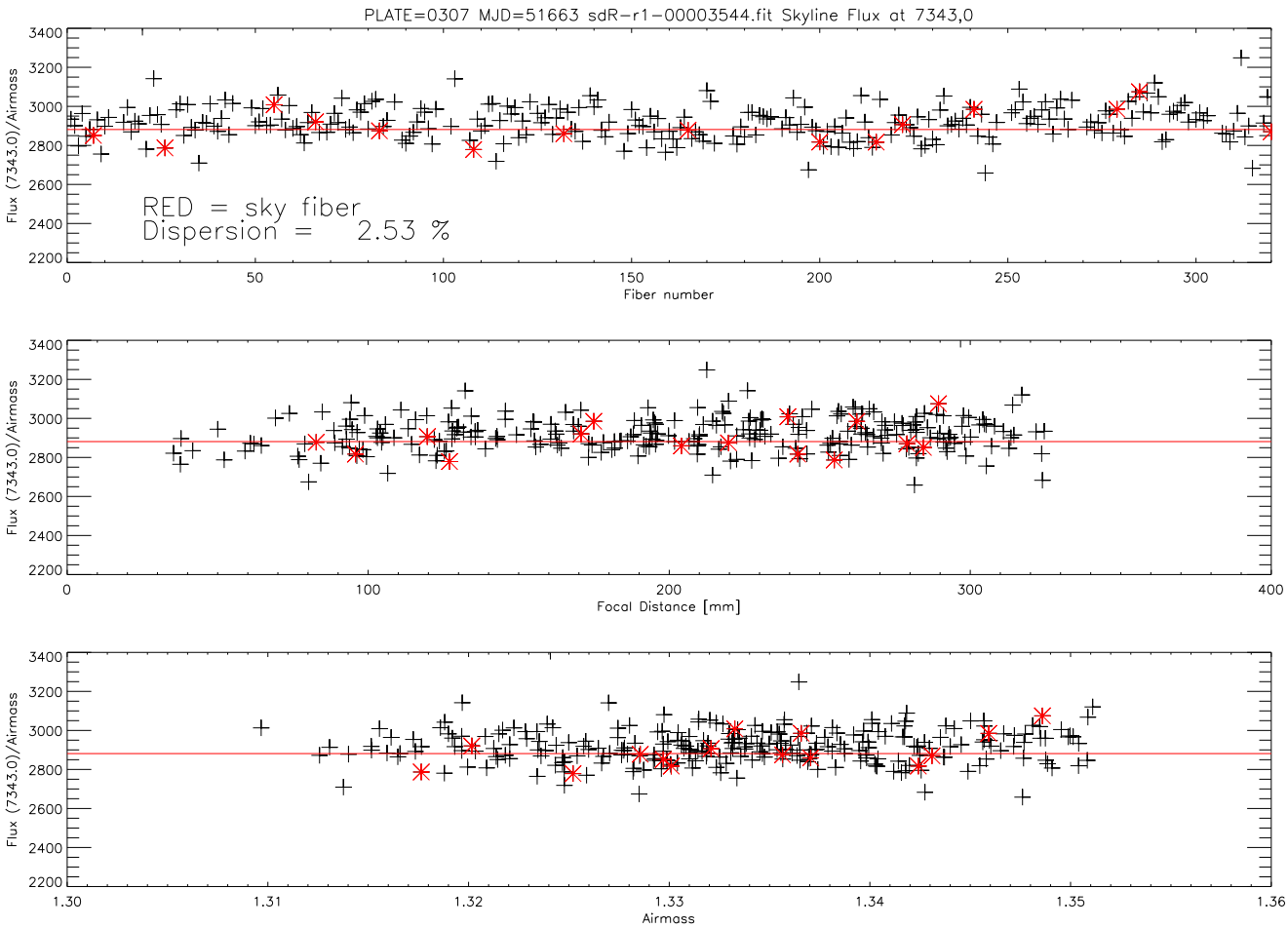

Number of sky fibers = 15
PLATE=0307 MJD=51663 sdR-r1-00003544.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

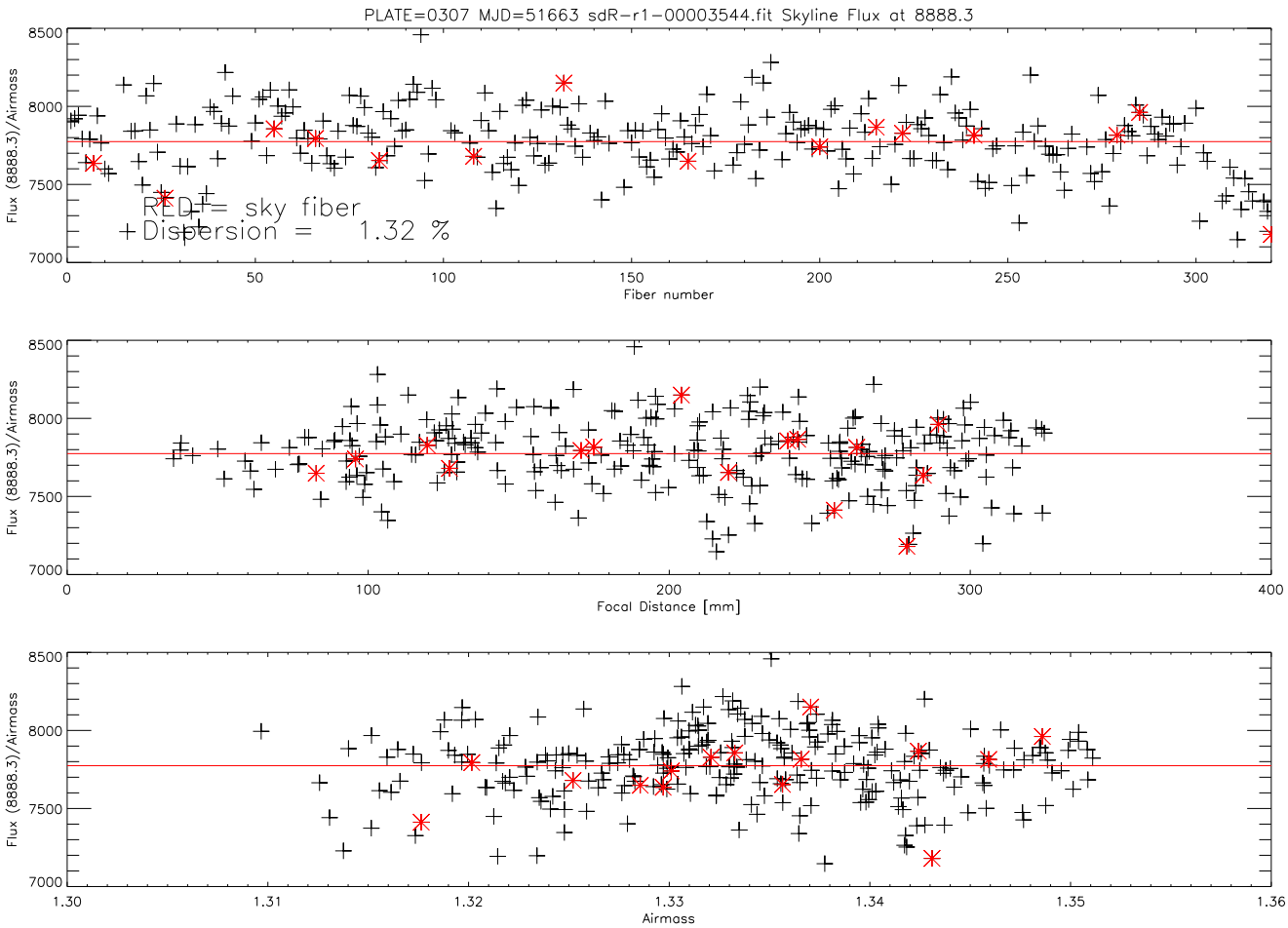

PLATE=0307 MJD=51663 sdR-r1-00003544.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
15
10
5
0
-5
-10
50
100
150
200
250
300
Fiber number

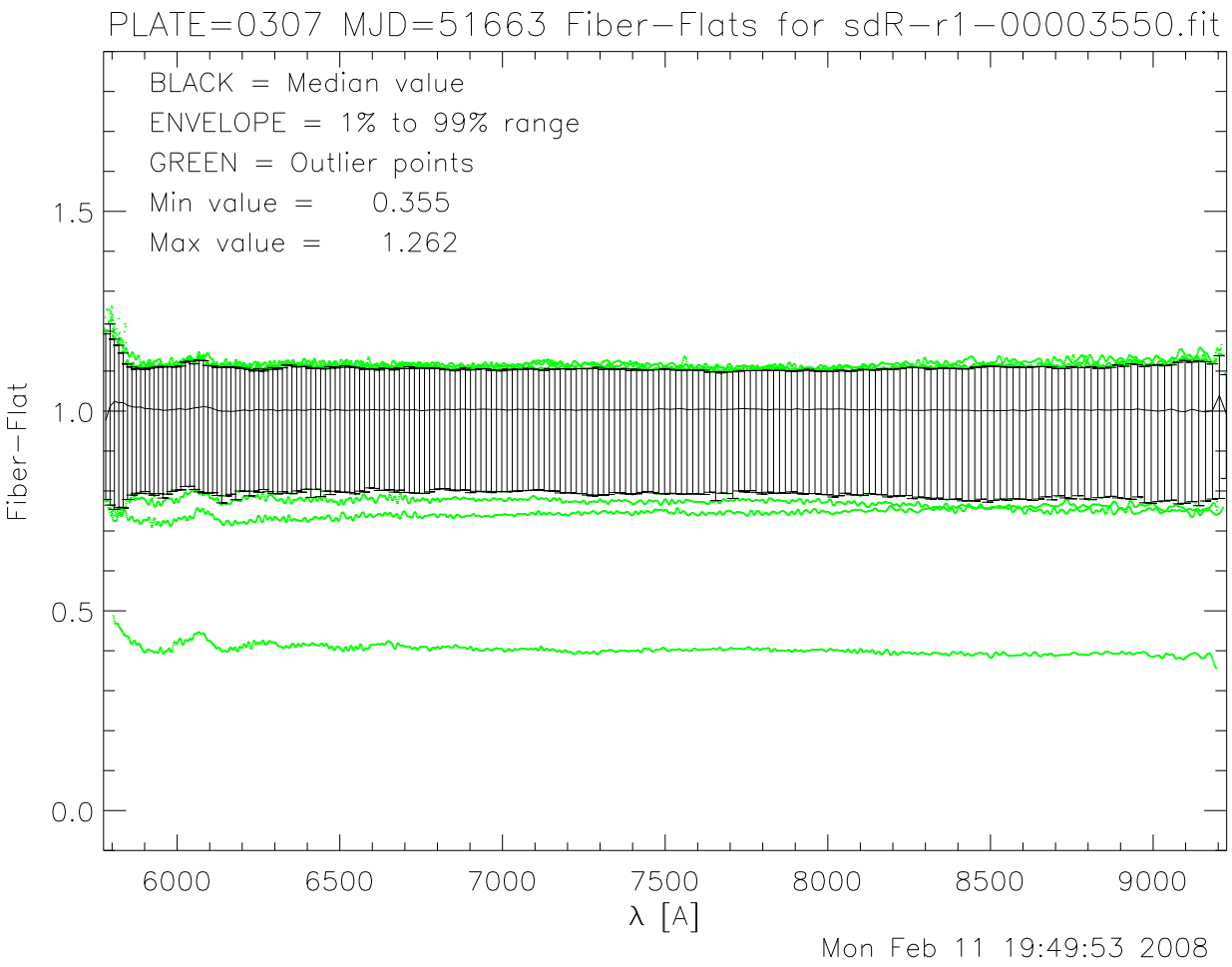

PLATE=0307 MJD=51663 sdR-r1-00003544.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
−2000
8820
8840
8860
8880
8900
λ [A]

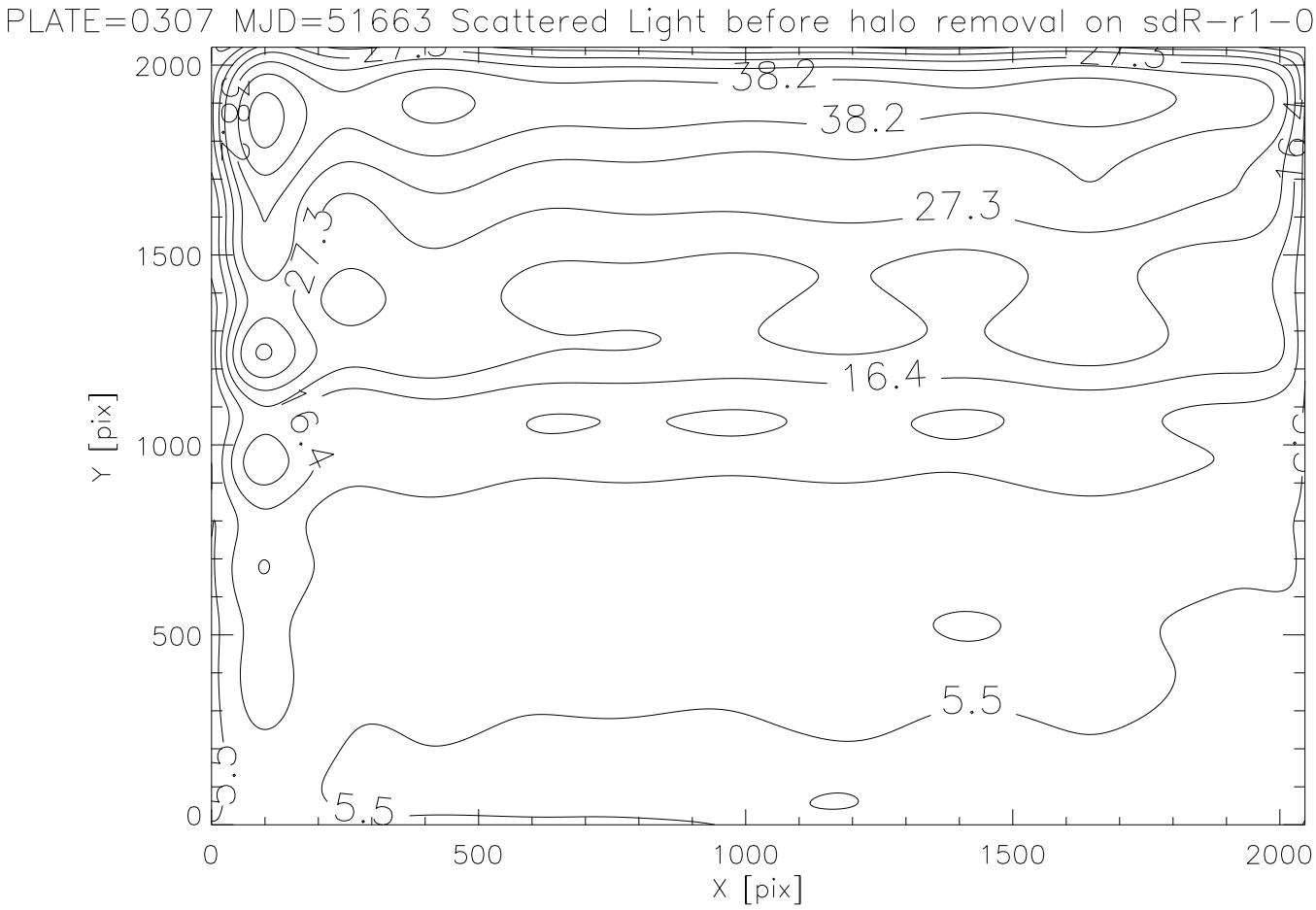

PLATE=0307 MJD=51663 sdR-r1-00003544.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
−100
−200
−300
−400
8820
8840
8860
8880
8900
λ [A]

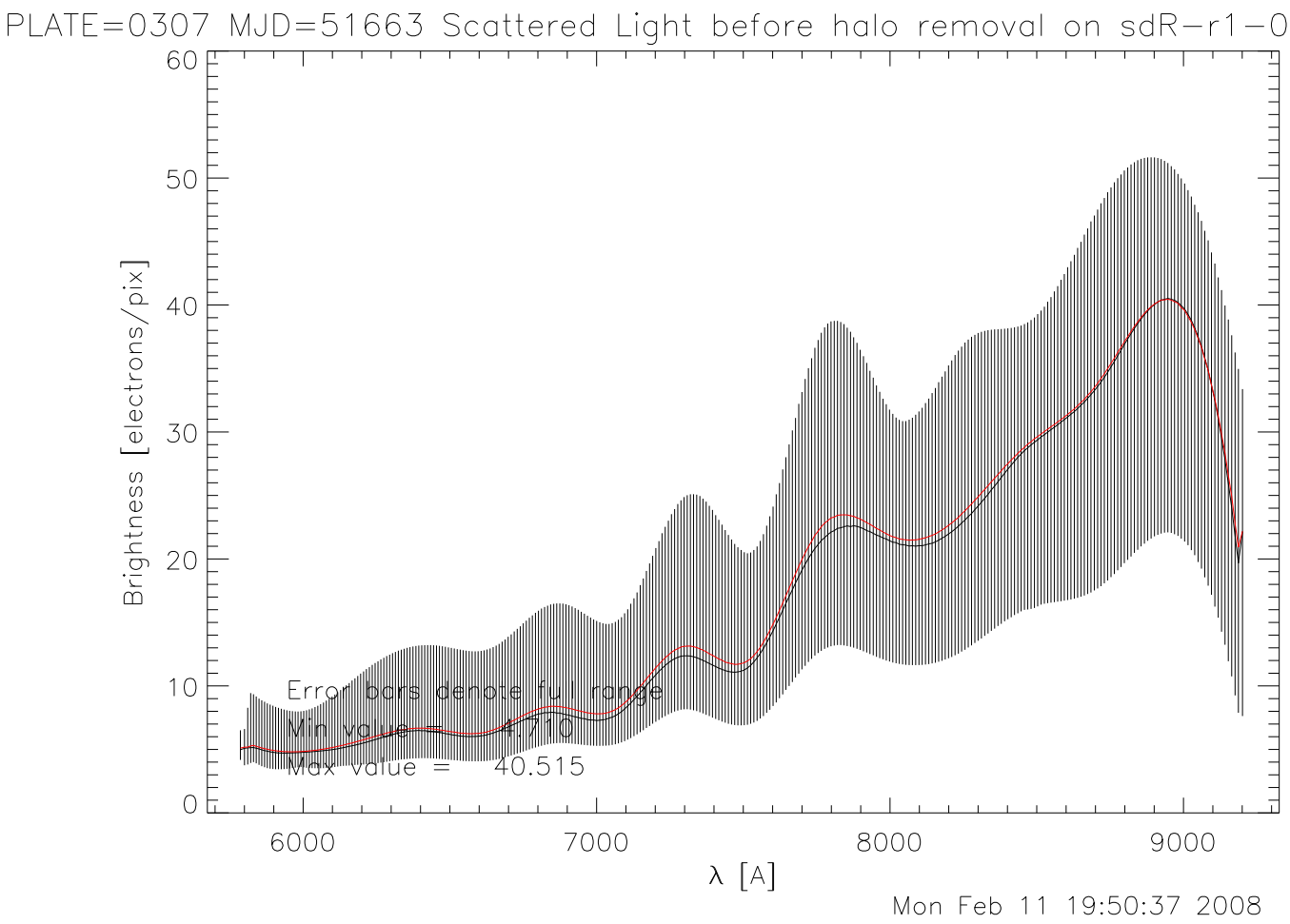

Number of sky fibers = 15
PLATE=0307 MJD=51663 sdR-r1-00003544.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

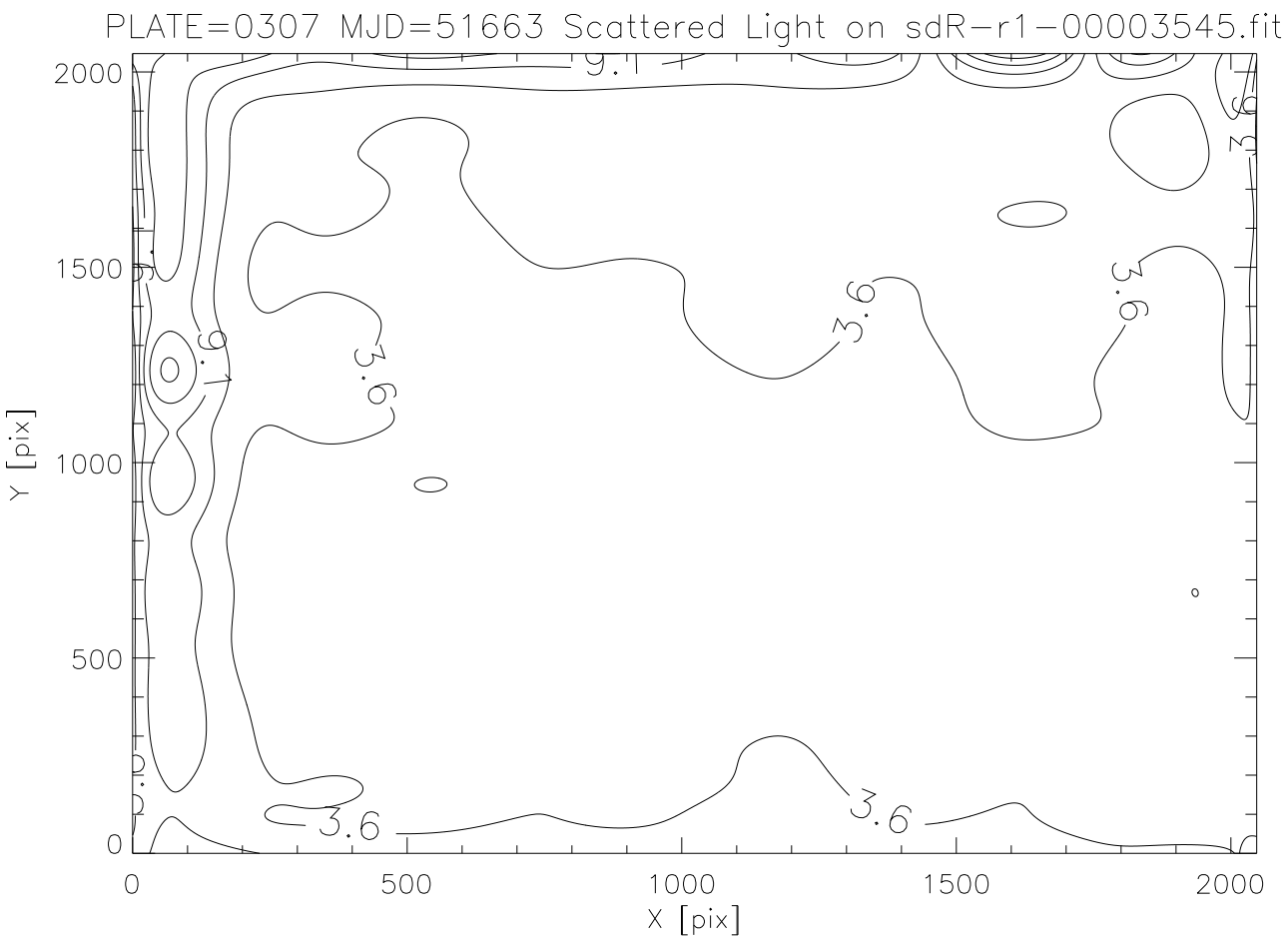

PLATE=0307 MJD=51663 sdR-r1-00003544.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.53 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

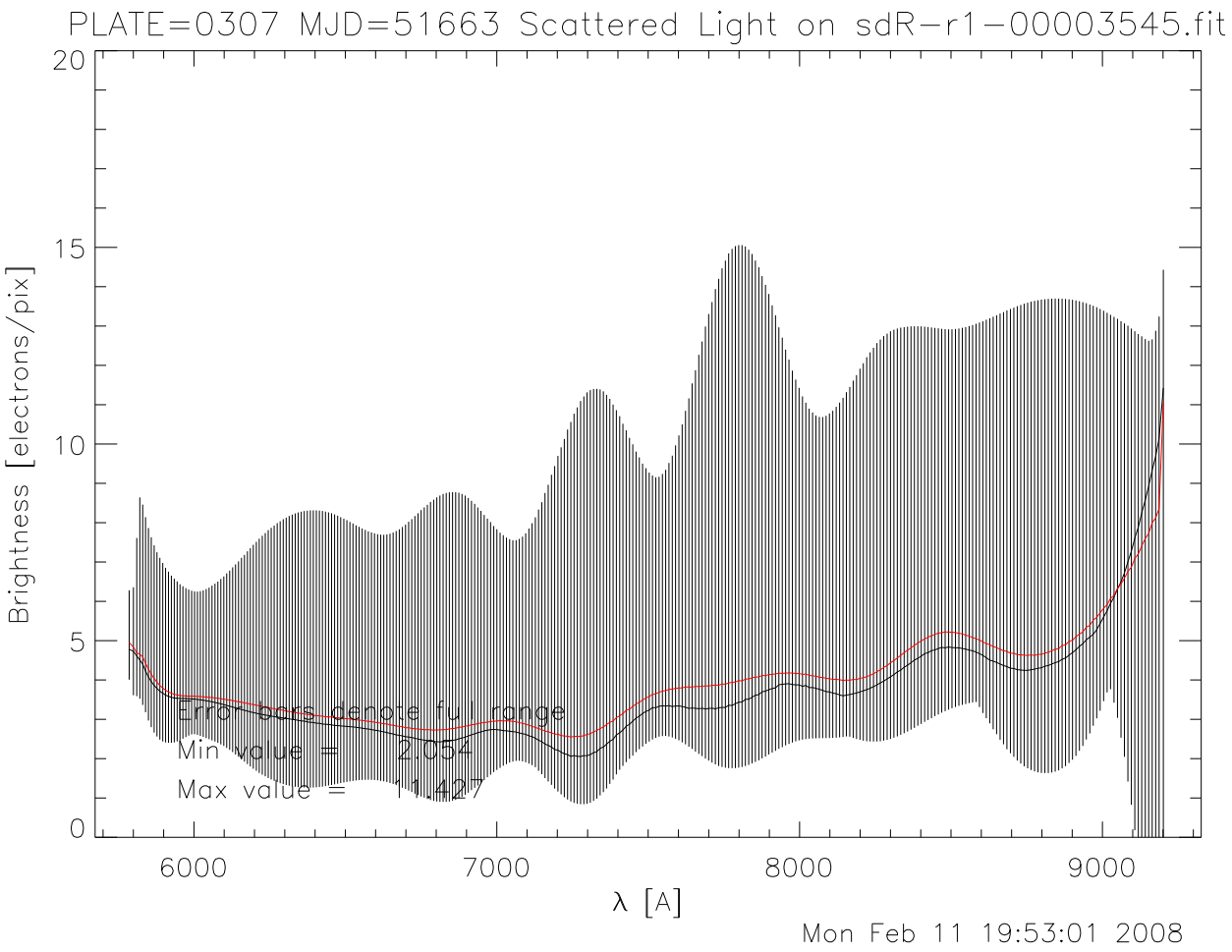

PLATE=0307 MJD=51663 sdR-r1-00003544.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED= sky fiber
+Dispersion = 1.32 %
Focal Distance [mm]
Airmass

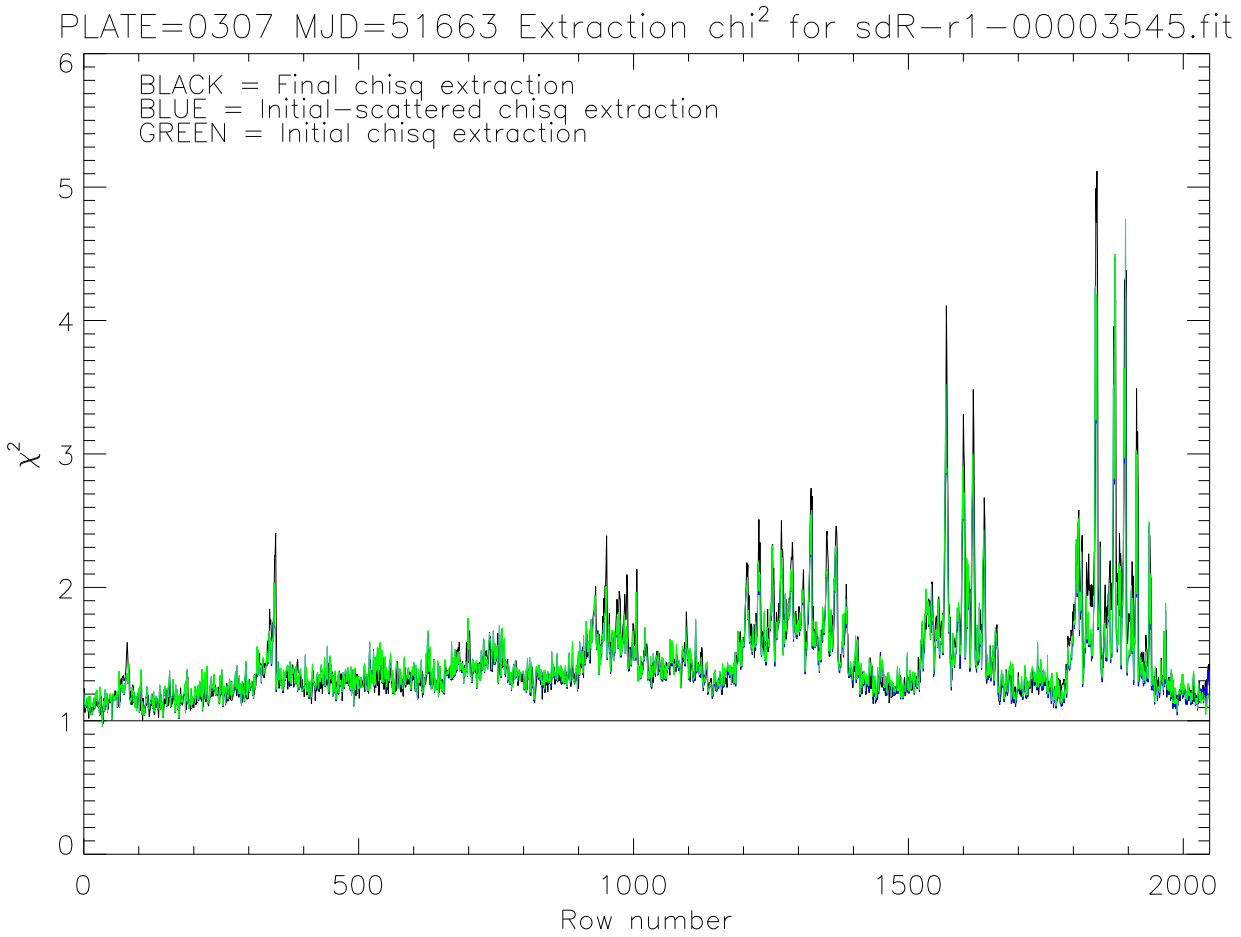

PLATE=0307 MJD=51663 Fiber−Flats for sdR−r1−00003550.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.355
Max value = 1.262
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 11 19:49:53 2008

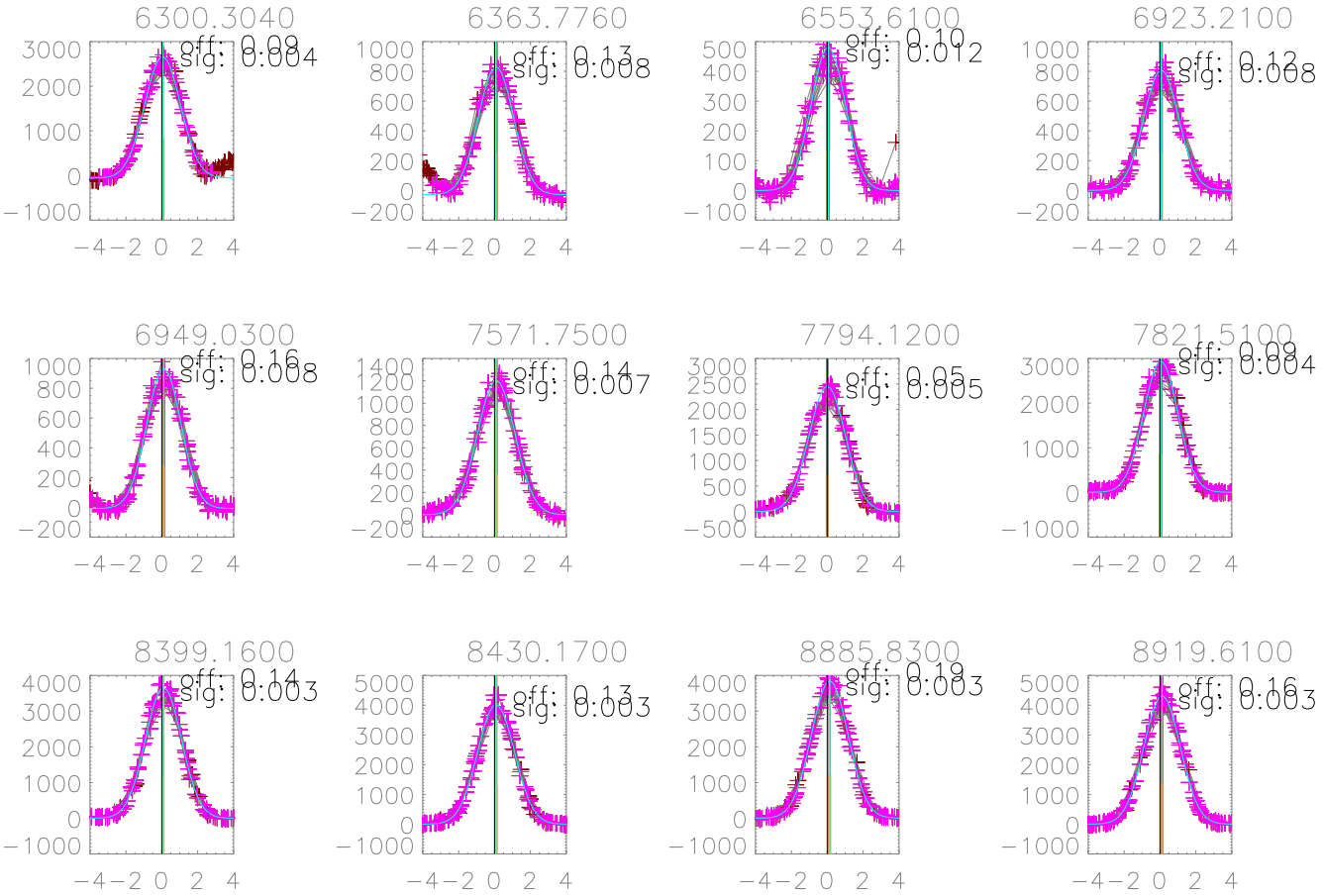

PLATE=0307 MJD=51663 Scattered Light before halo removal on sdR-r1-00003545.fi
38.2
38.2
27.3
27.3
16.4
5.5
5.5
Y [pix]
X [pix]
0
500
1000
1500
2000

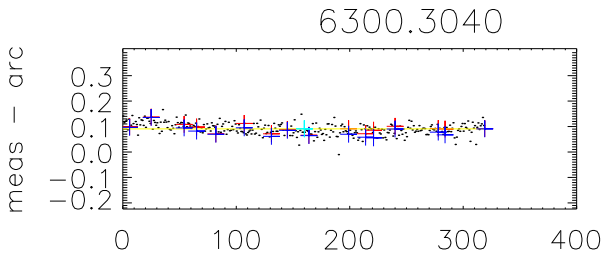

PLATE=0307 MJD=51663 Scattered Light before halo removal on sdR-r1-00003545.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.710
Max value = 40.515
Mon Feb 11 19:50:37 2008

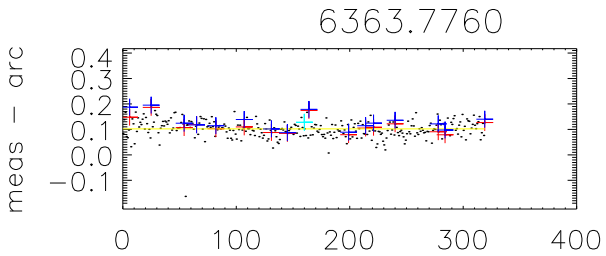

PLATE=0307 MJD=51663 Scattered Light on sdR-r1-00003545.fit
9.1
3.6
0
Y [pix]
X [pix]
0
500
1000
1500
2000

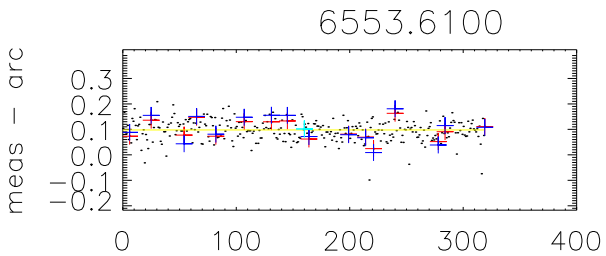

PLATE=0307 MJD=51663 Scattered Light on sdR-r1-00003545.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 2.054
Max value = 11.427
Mon Feb 11 19:53:01 2008

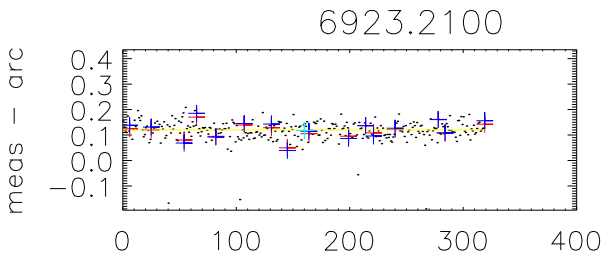

PLATE=0307 MJD=51663 Extraction chi^2 for sdR−r1−00003545.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

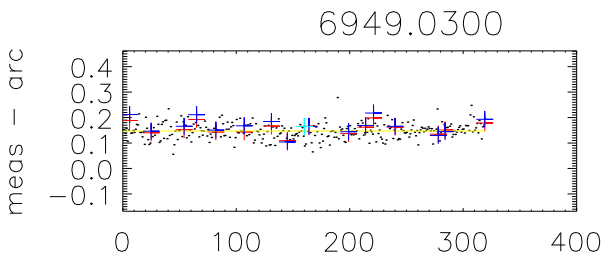

6300.3040
off: 0.09
sig: 0.004
6363.7760
off: 0.13
sig: 0.008
6553.6100
off: 0.10
sig: 0.012
6923.2100
off: 0.12
sig: 0.008
6949.0300
off: 0.16
sig: 0.008
7571.7500
off: 0.14
sig: 0.007
7794.1200
off: 0.05
sig: 0.005
7821.5100
off: 0.09
sig: 0.004
8399.1600
off: 0.14
sig: 0.003
8430.1700
off: 0.13
sig: 0.003
8885.8300
off: 0.19
sig: 0.003
8919.6100
off: 0.16
sig: 0.003

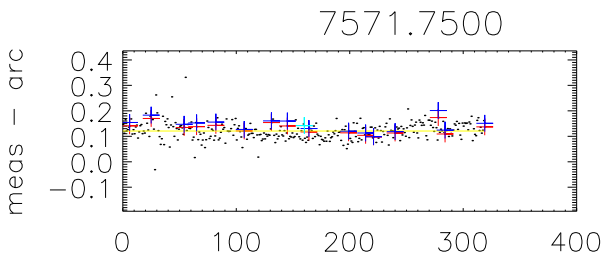

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

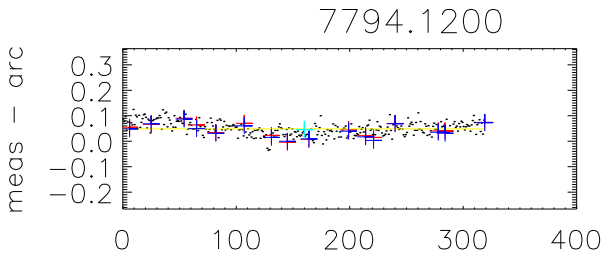

6363.7760
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

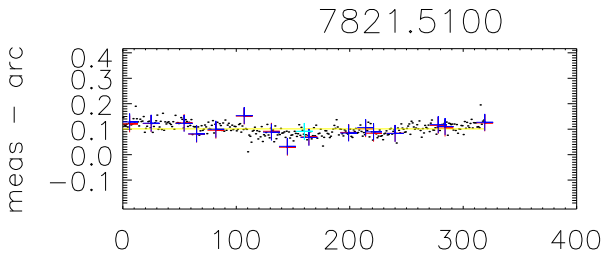

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

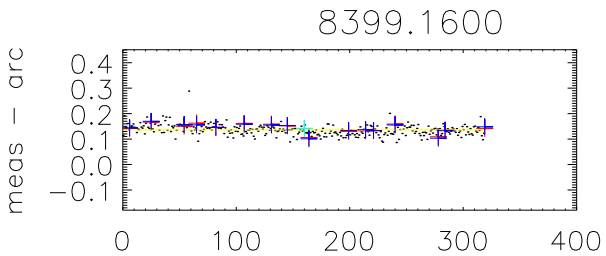

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

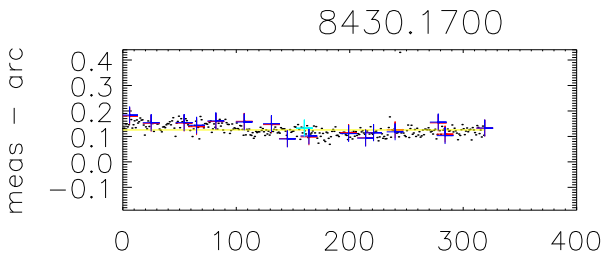

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

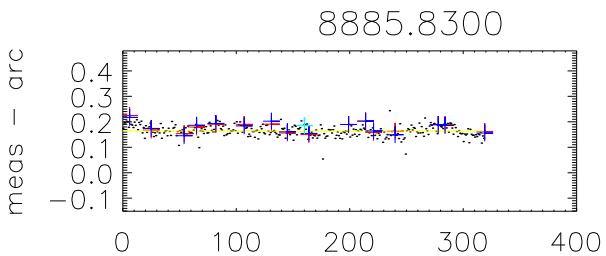

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

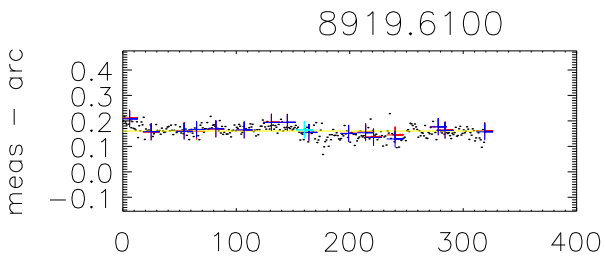

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

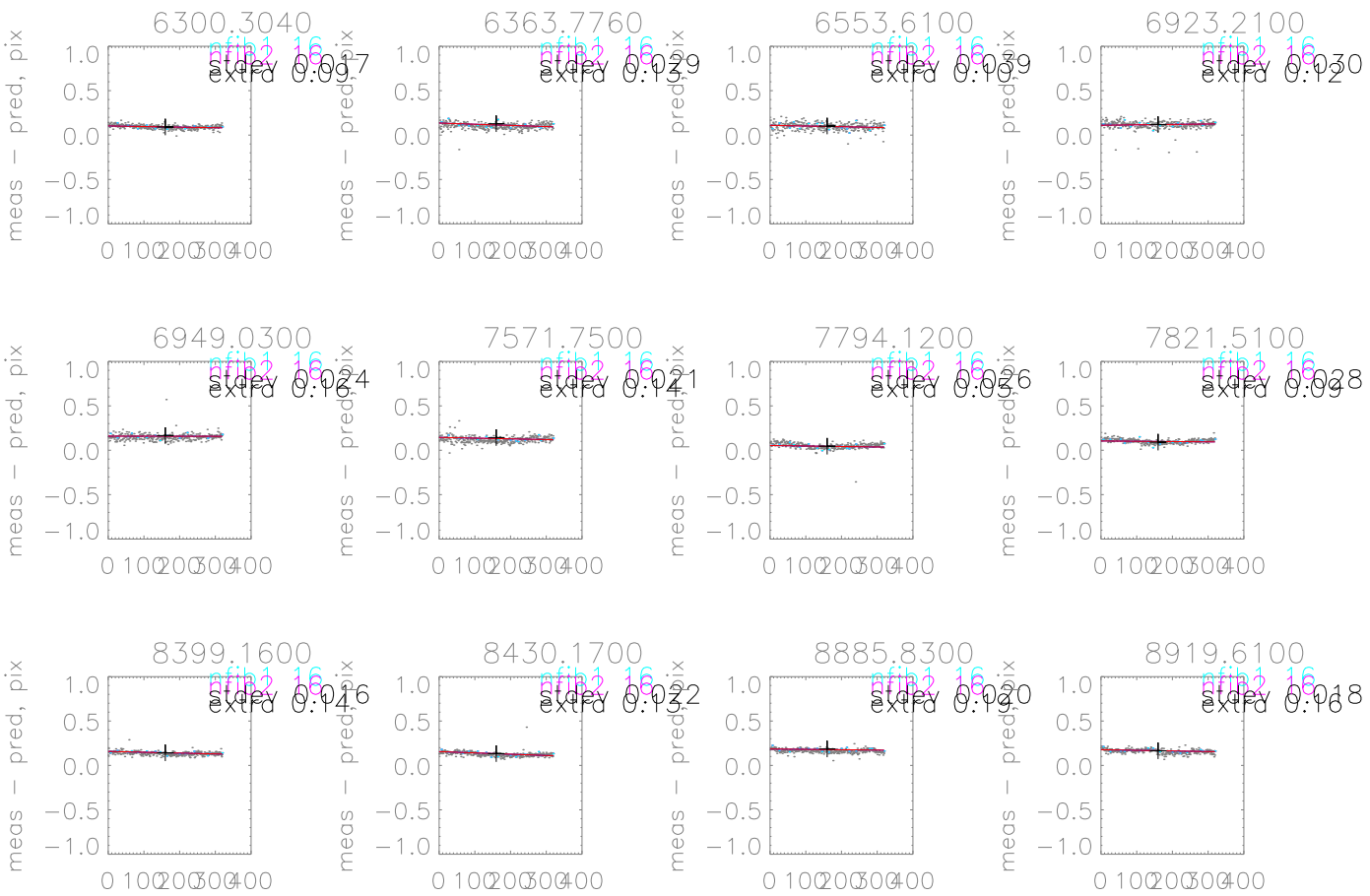

7821.5100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

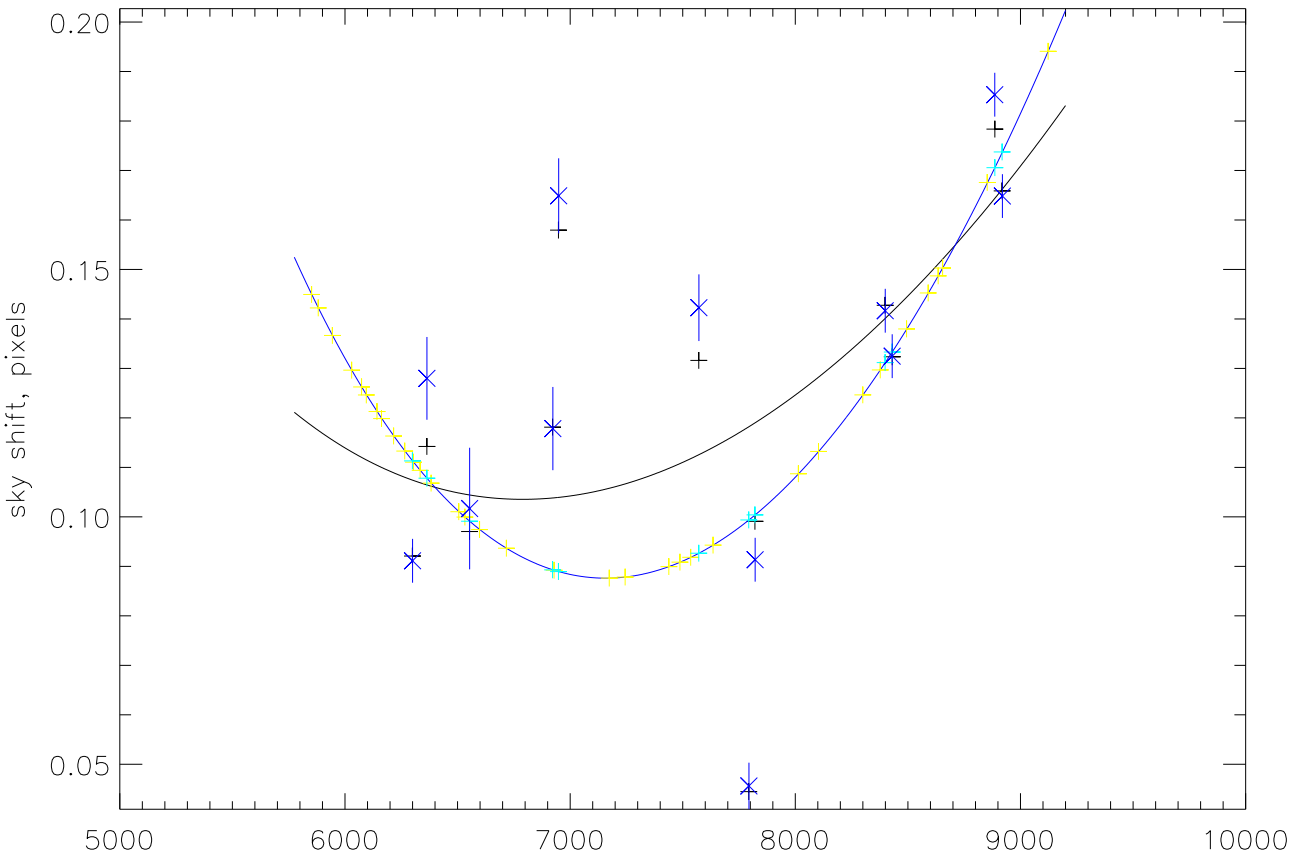

8399.1600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

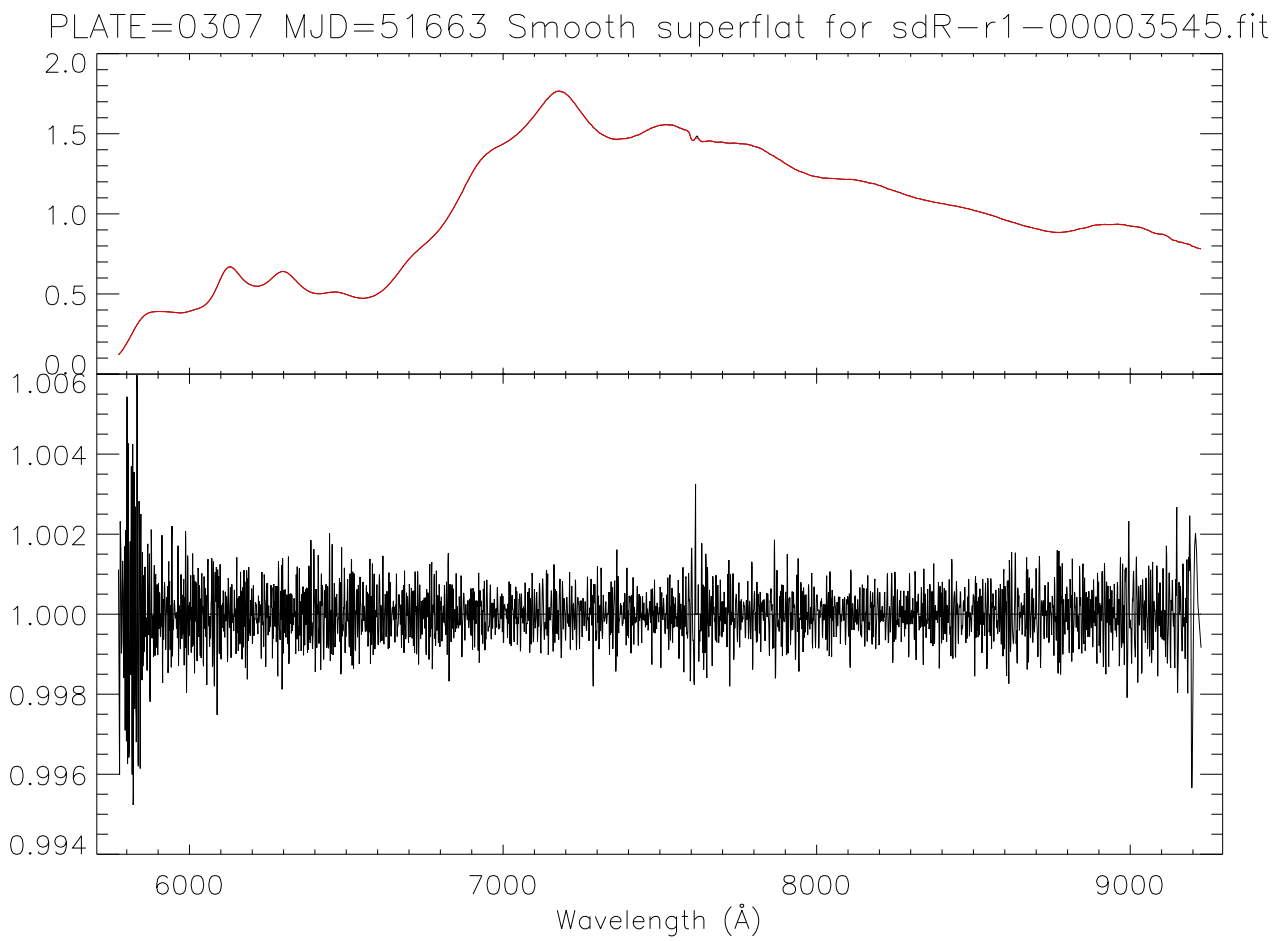

8885.8300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

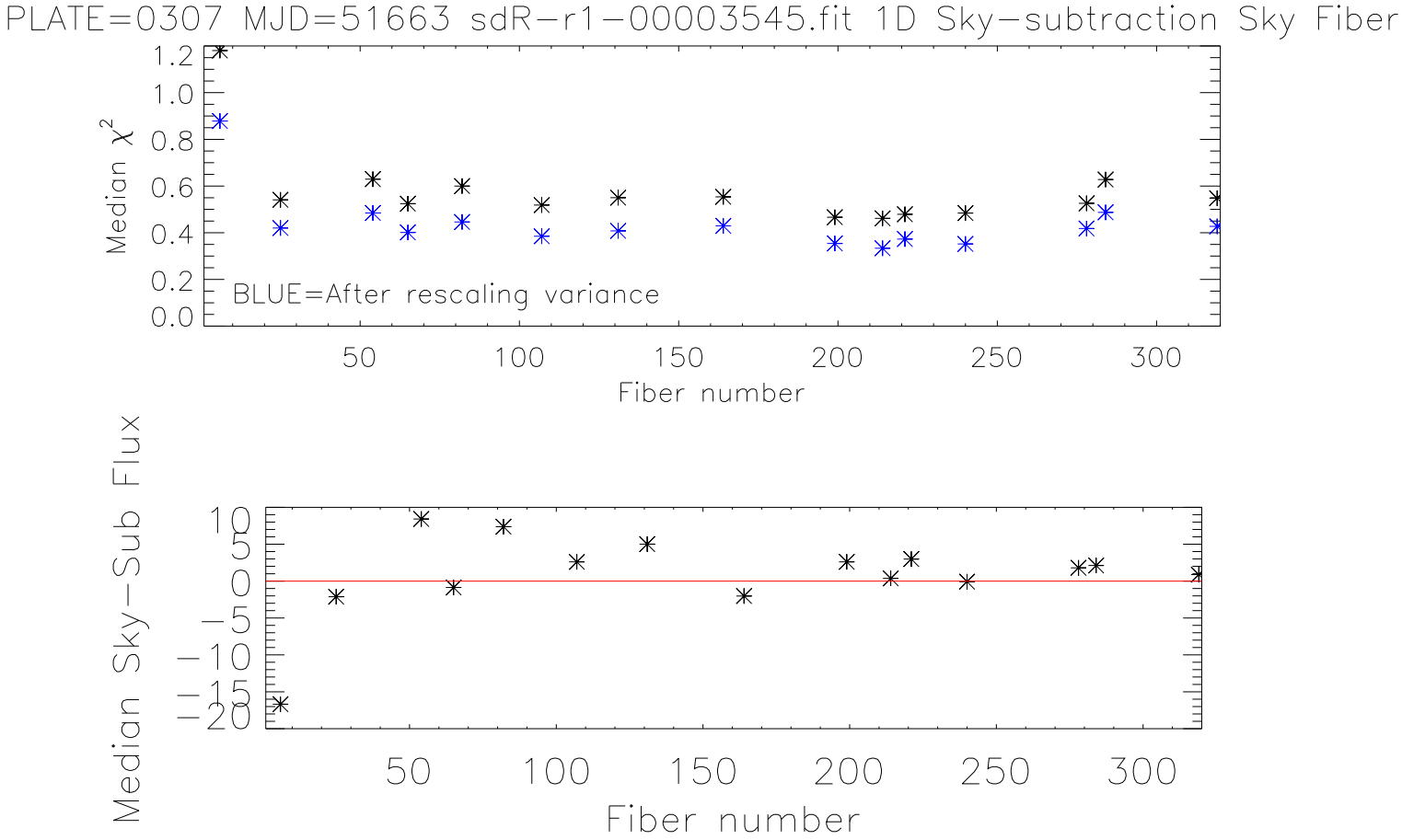

8919.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

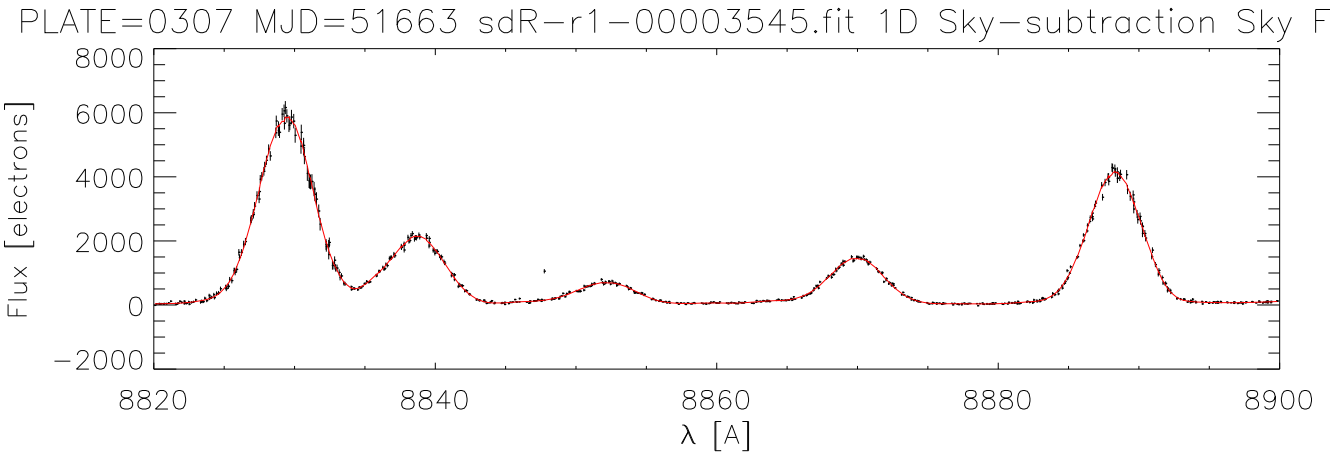

6300.3040
stdev 0.017
extra 0.09
6363.7760
stdev 0.029
extra 0.13
6553.6100
stdev 0.039
extra 0.10
6923.2100
stdev 0.030
extra 0.12
6949.0300
stdev 0.024
extra 0.16
7571.7500
stdev 0.021
extra 0.14
7794.1200
stdev 0.026
extra 0.05
7821.5100
stdev 0.028
extra 0.09
8399.1600
stdev 0.016
extra 0.14
8430.1700
stdev 0.022
extra 0.13
8885.8300
stdev 0.020
extra 0.13
8919.6100
stdev 0.018
extra 0.16
meas − pred, pix
mfhd2 16

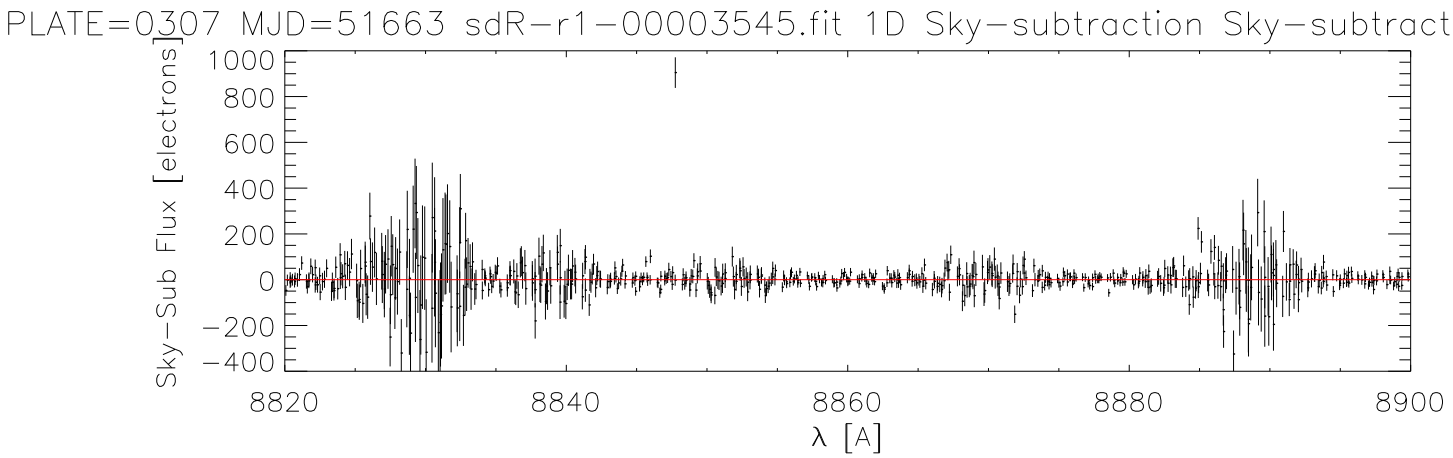

0.20
0.15
0.10
0.05
sky shift, pixels
5000
6000
7000
8000
9000
10000

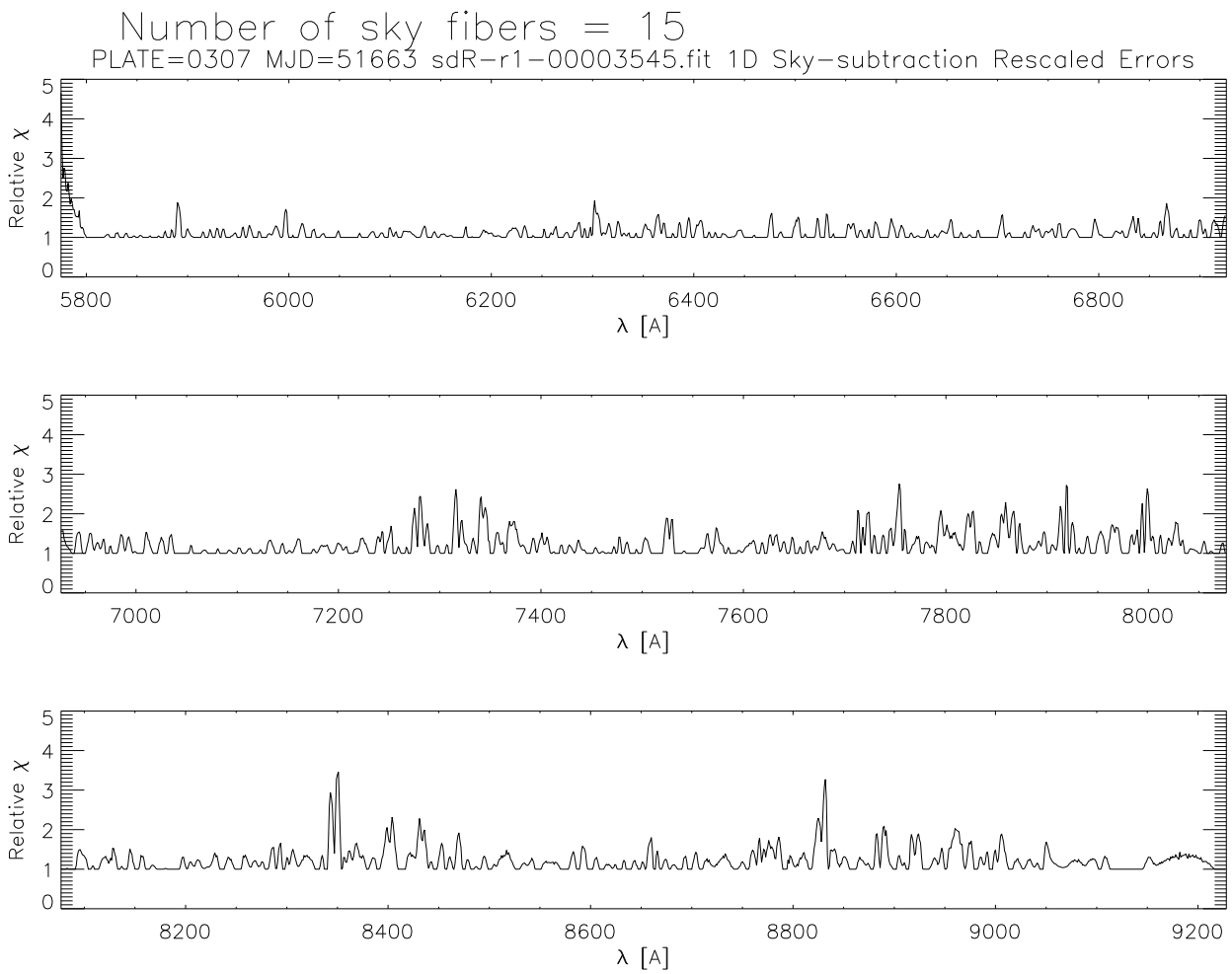
es= 0.0000

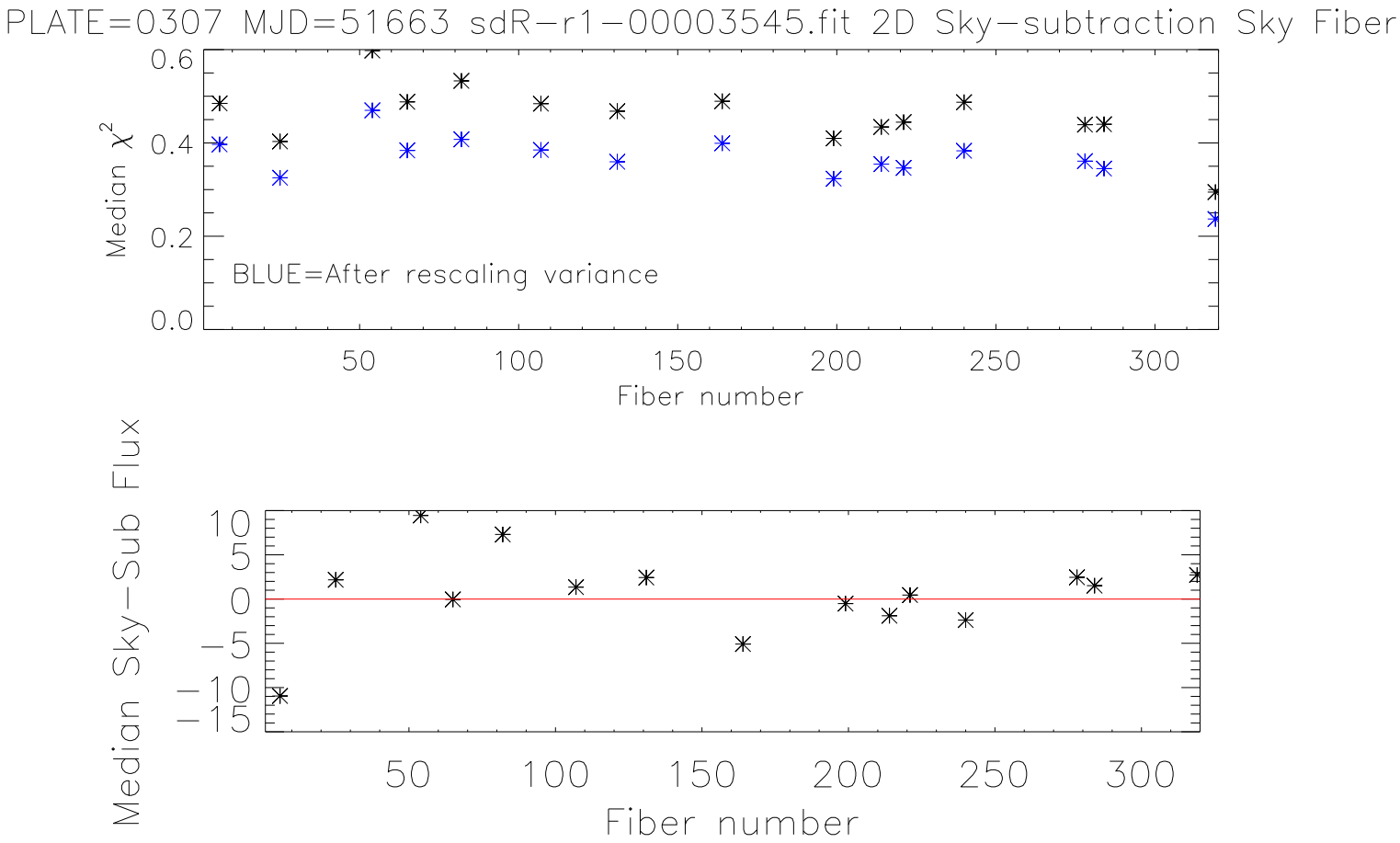

PLATE=0307 MJD=51663 Smooth superflat for sdR-r1-00003545.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
6000
7000
8000
9000
Wavelength (Å)

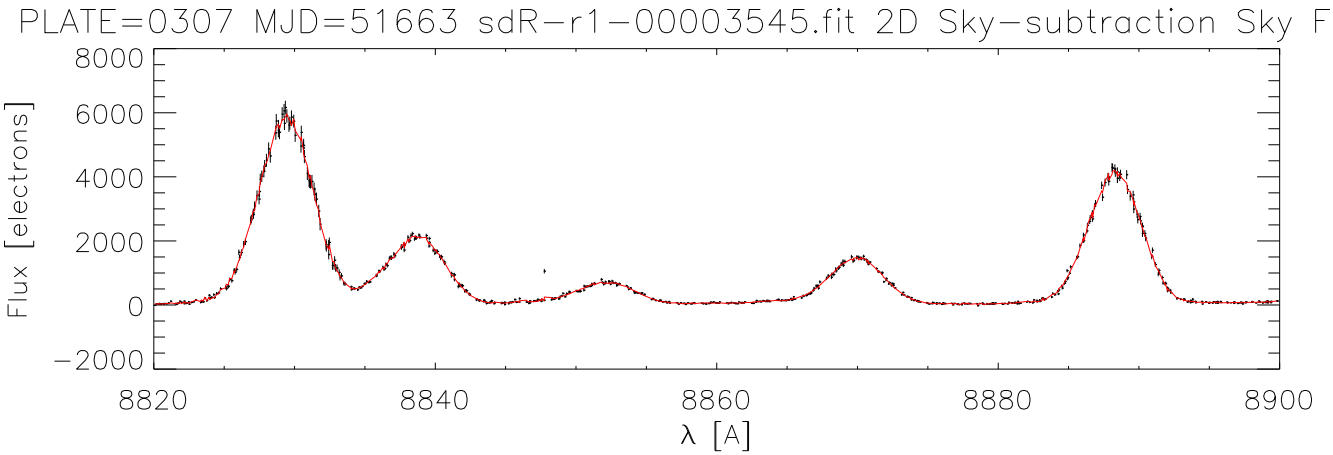

PLATE=0307 MJD=51663 sdR-r1-00003545.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

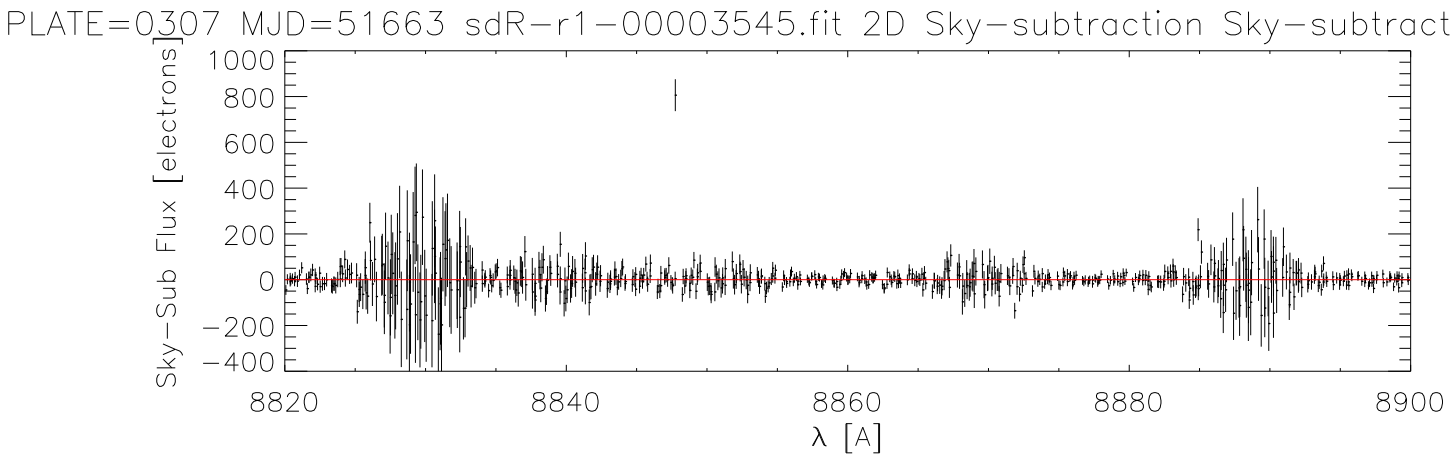

PLATE=0307 MJD=51663 sdR-r1-00003545.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
−2000
8820
8840
8860
8880
8900
λ [A]

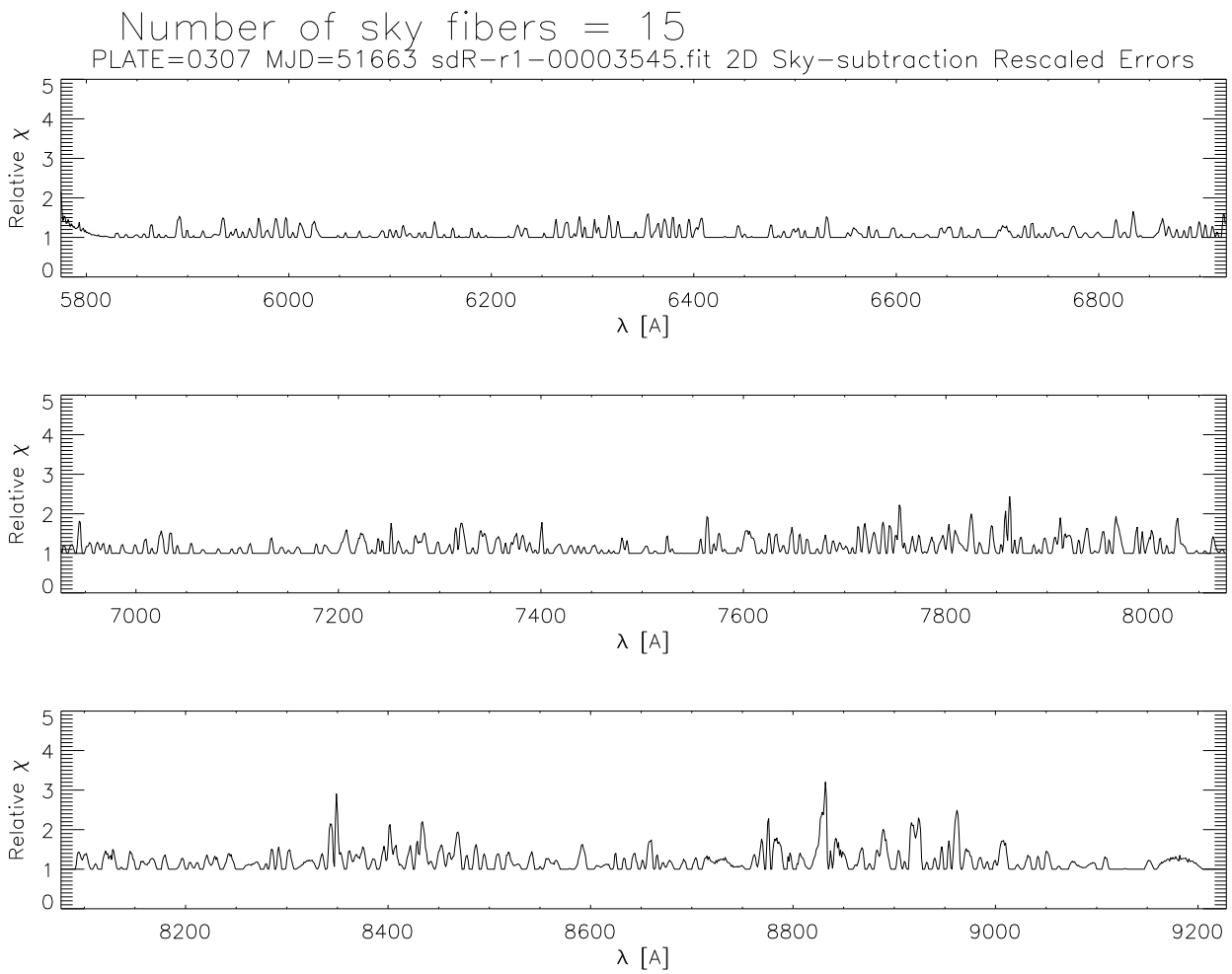

PLATE=0307 MJD=51663 sdR-r1-00003545.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
800
600
400
200
0
−200
−400
8820
8840
8860
8880
8900
λ [A]

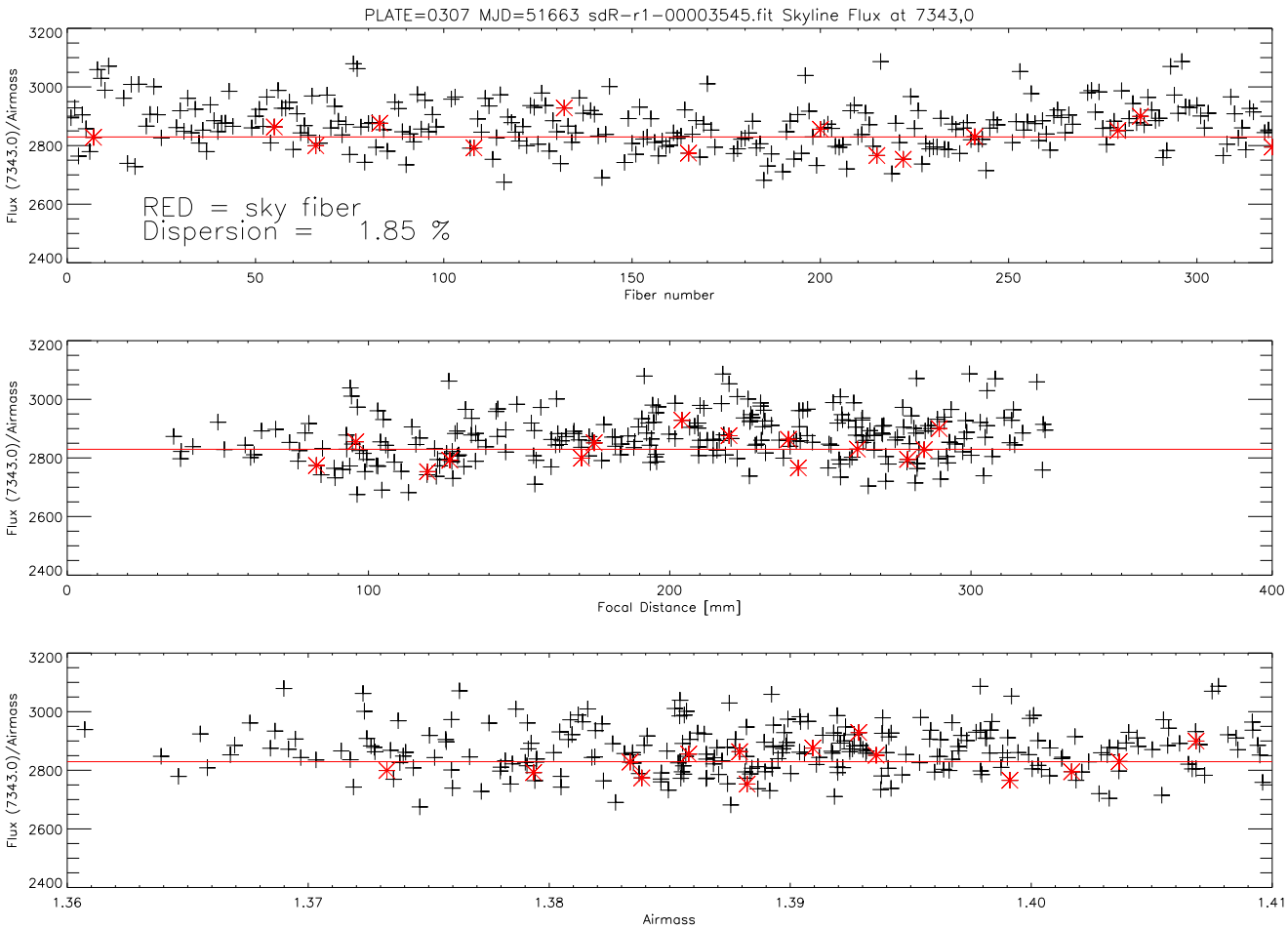

Number of sky fibers = 15
PLATE=0307 MJD=51663 sdR-r1-00003545.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

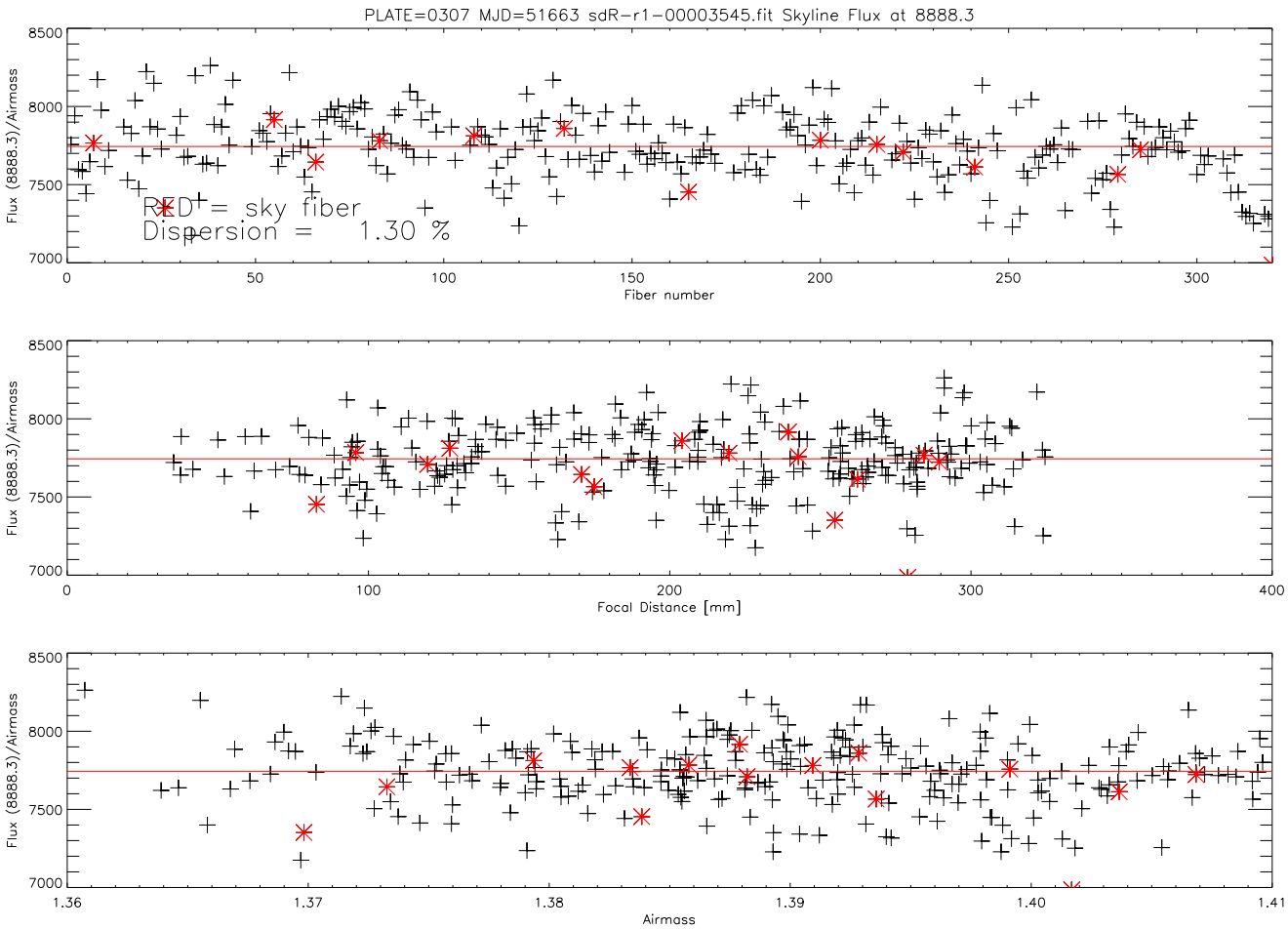

PLATE=0307 MJD=51663 sdR-r1-00003545.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

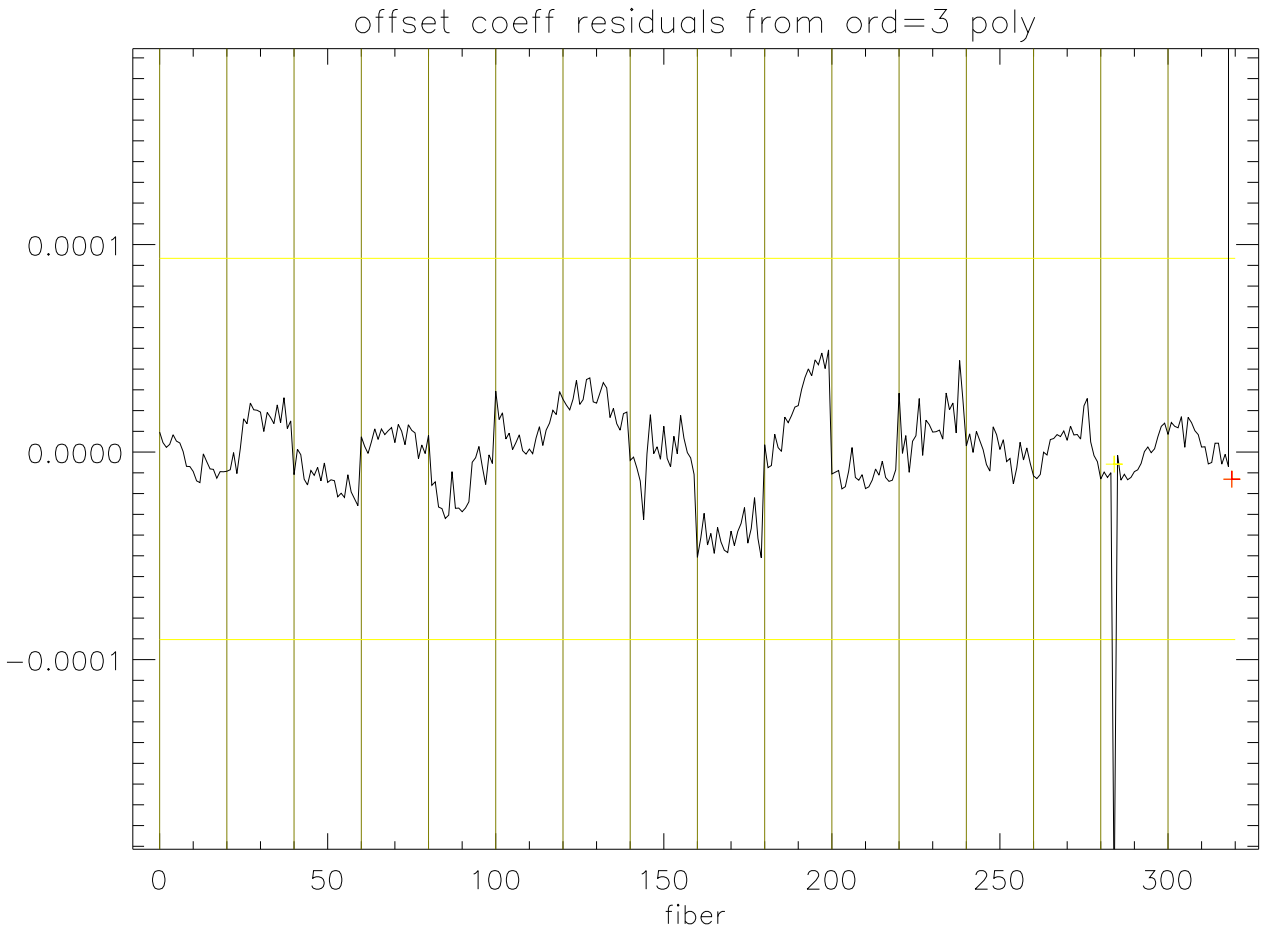

PLATE=0307 MJD=51663 sdR-r1-00003545.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
−2000
8820
8840
8860
8880
8900
λ [A]

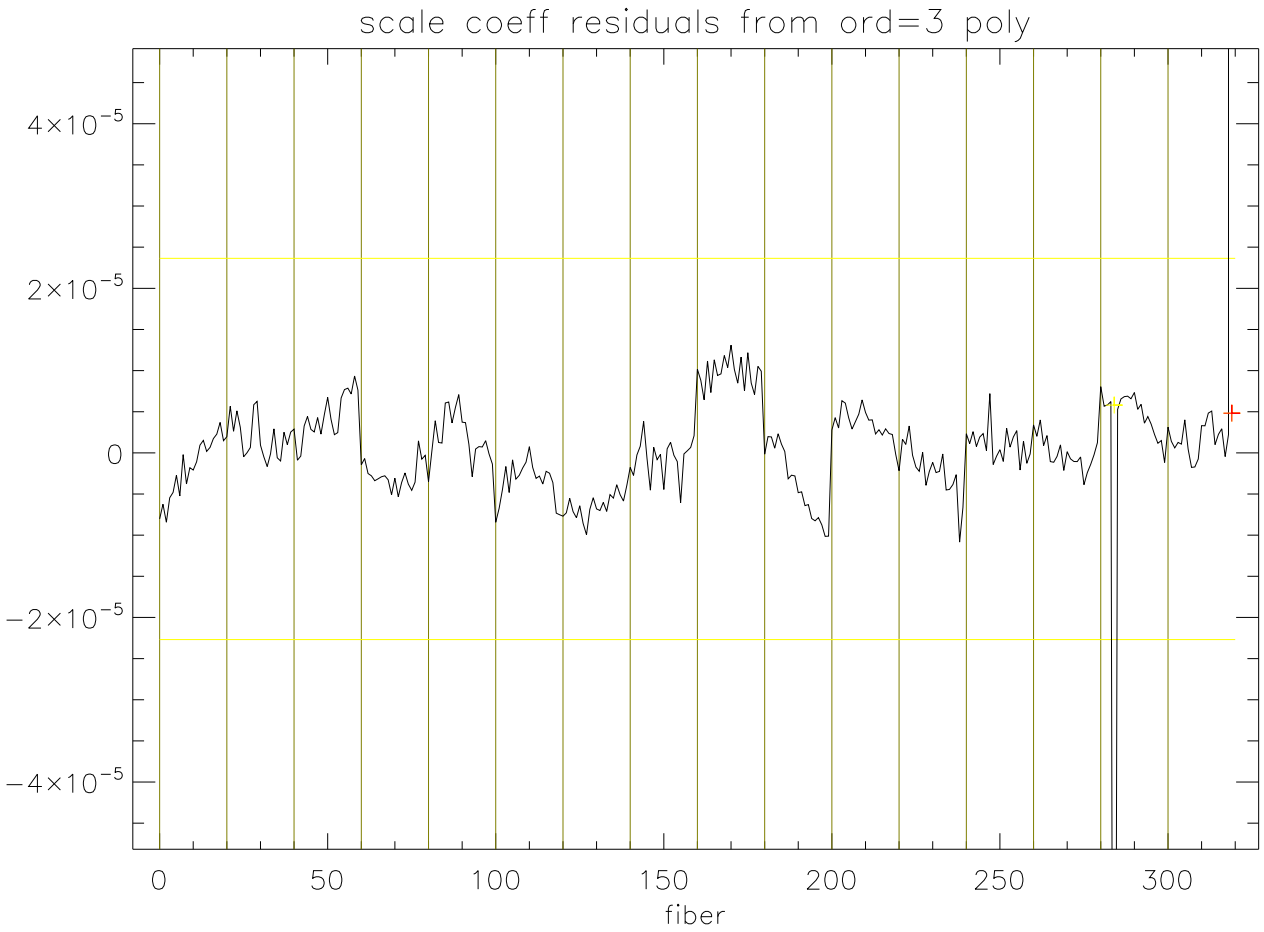

PLATE=0307 MJD=51663 sdR-r1-00003545.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
800
600
400
200
0
−200
−400
8820
8840
8860
8880
8900
λ [A]

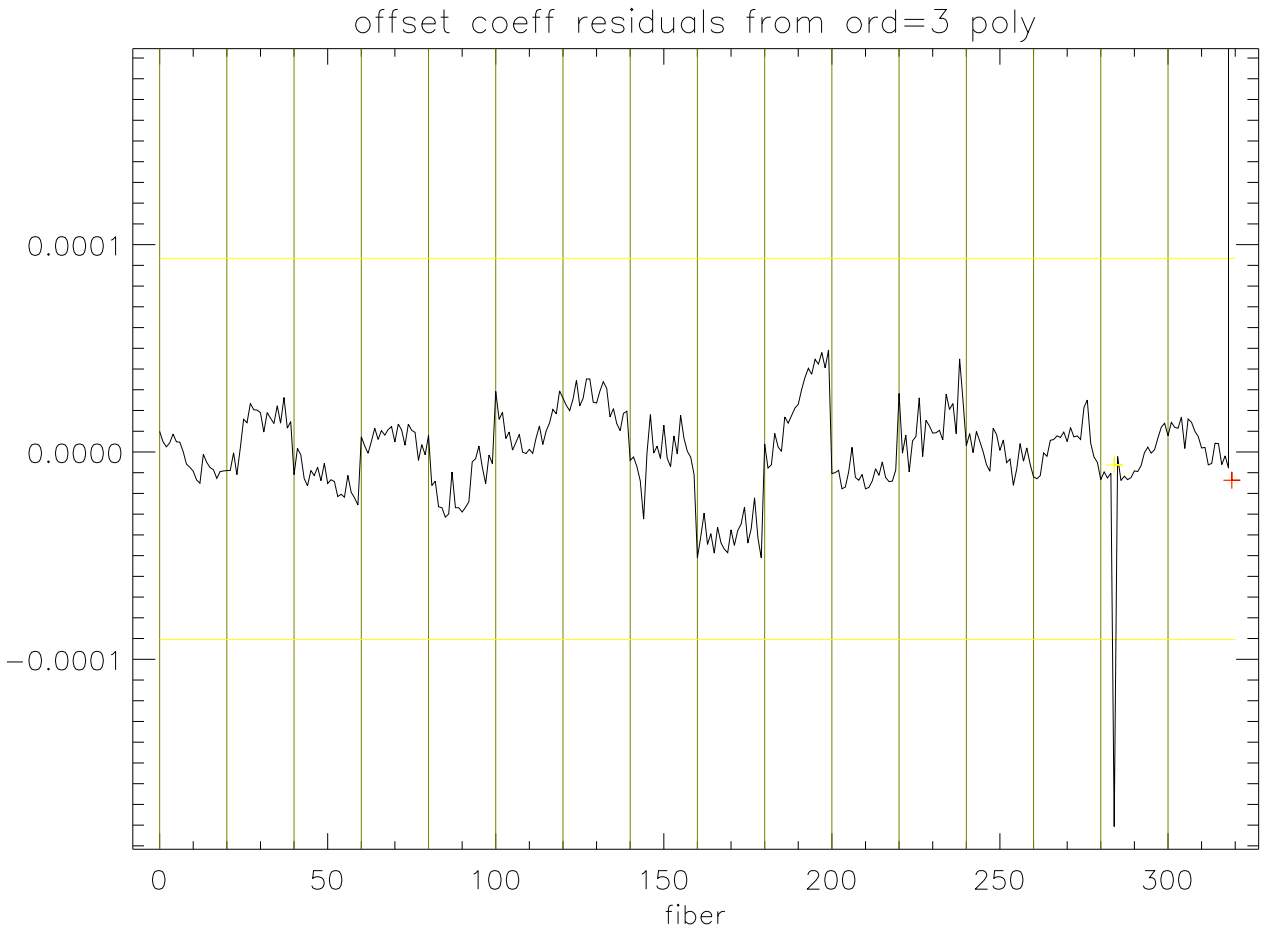

Number of sky fibers = 15
PLATE=0307 MJD=51663 sdR-r1-00003545.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

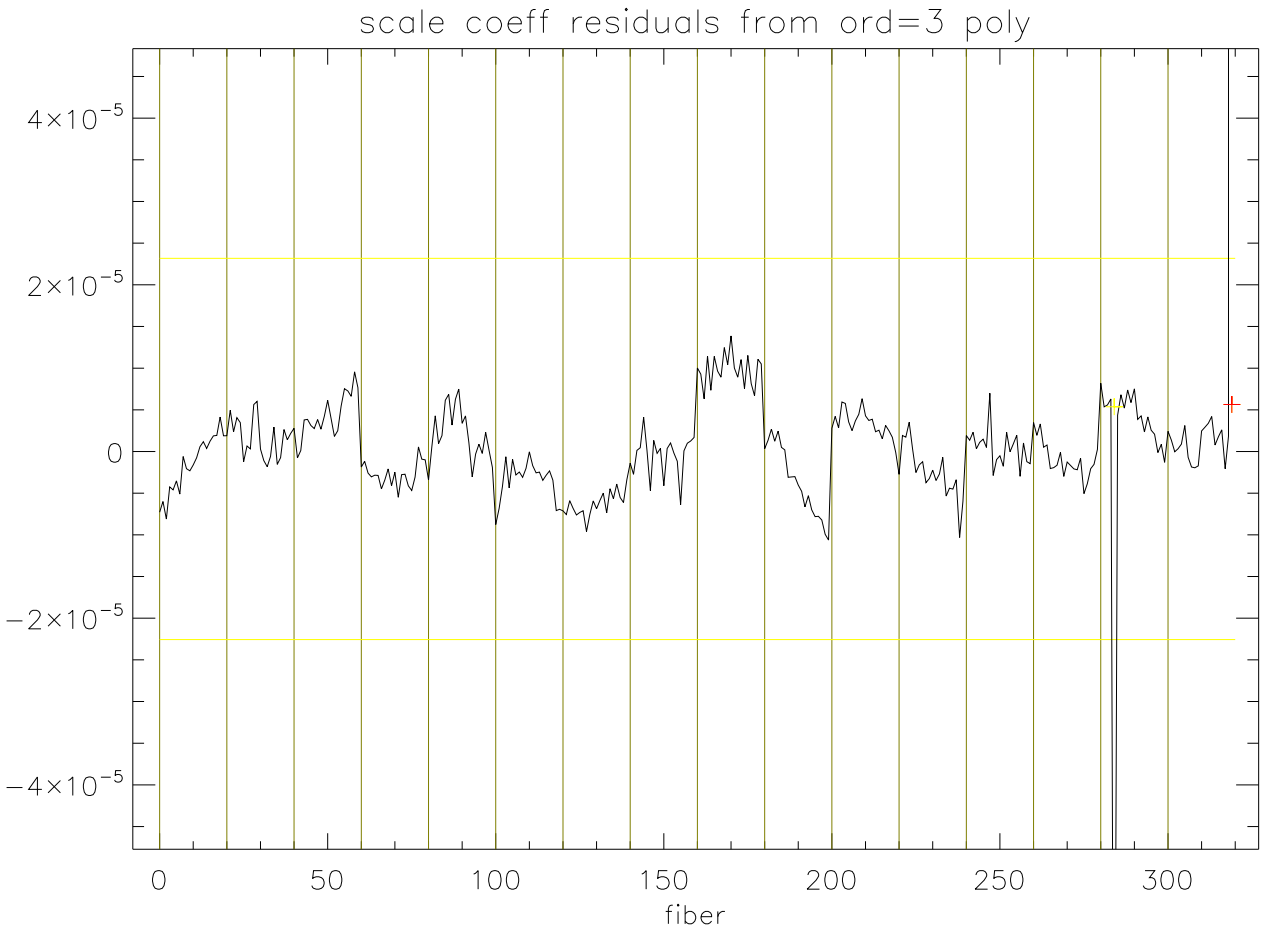

PLATE=0307 MJD=51663 sdR-r1-00003545.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 1.85 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

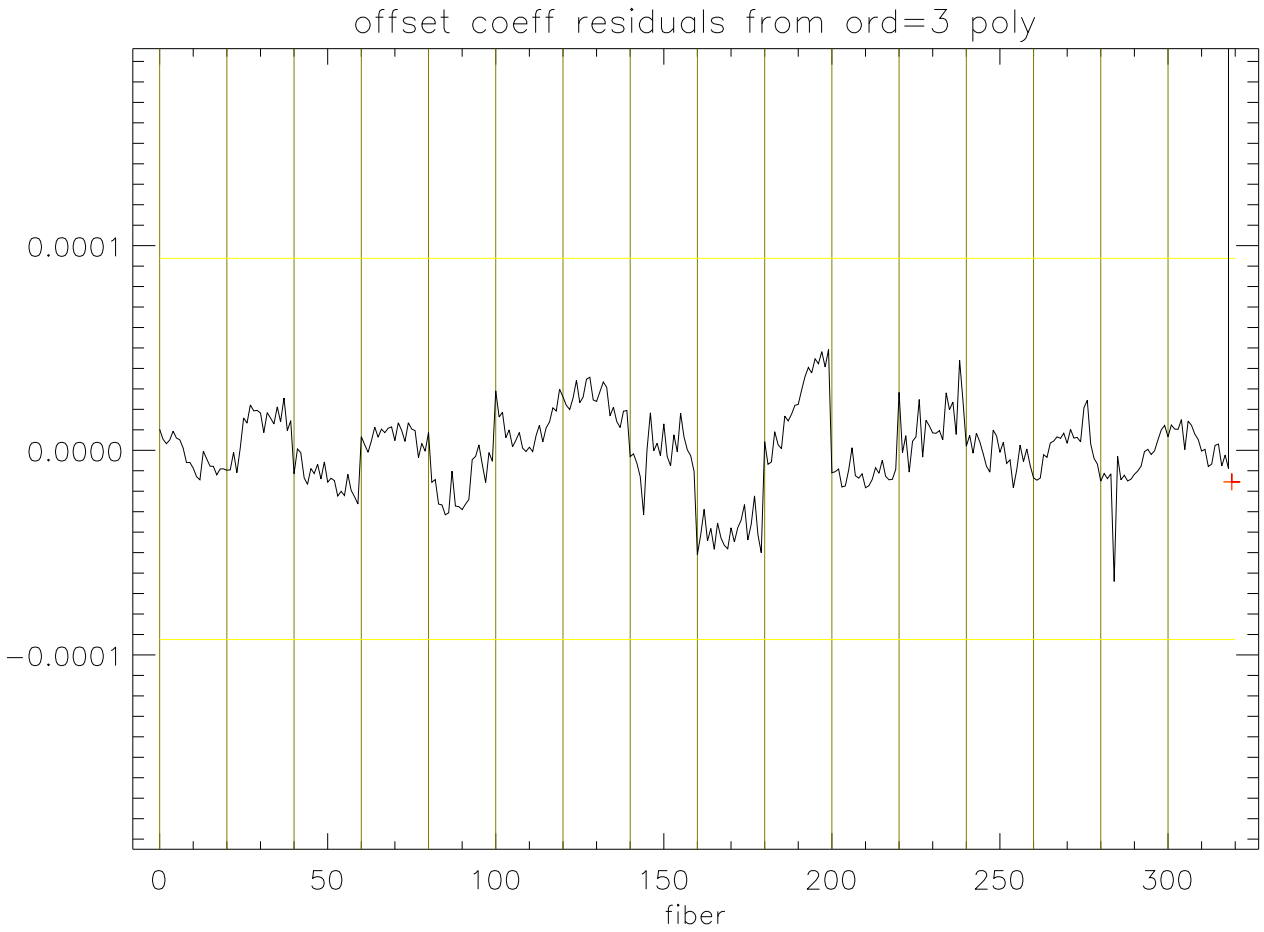

PLATE=0307 MJD=51663 sdR-r1-00003545.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.30 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

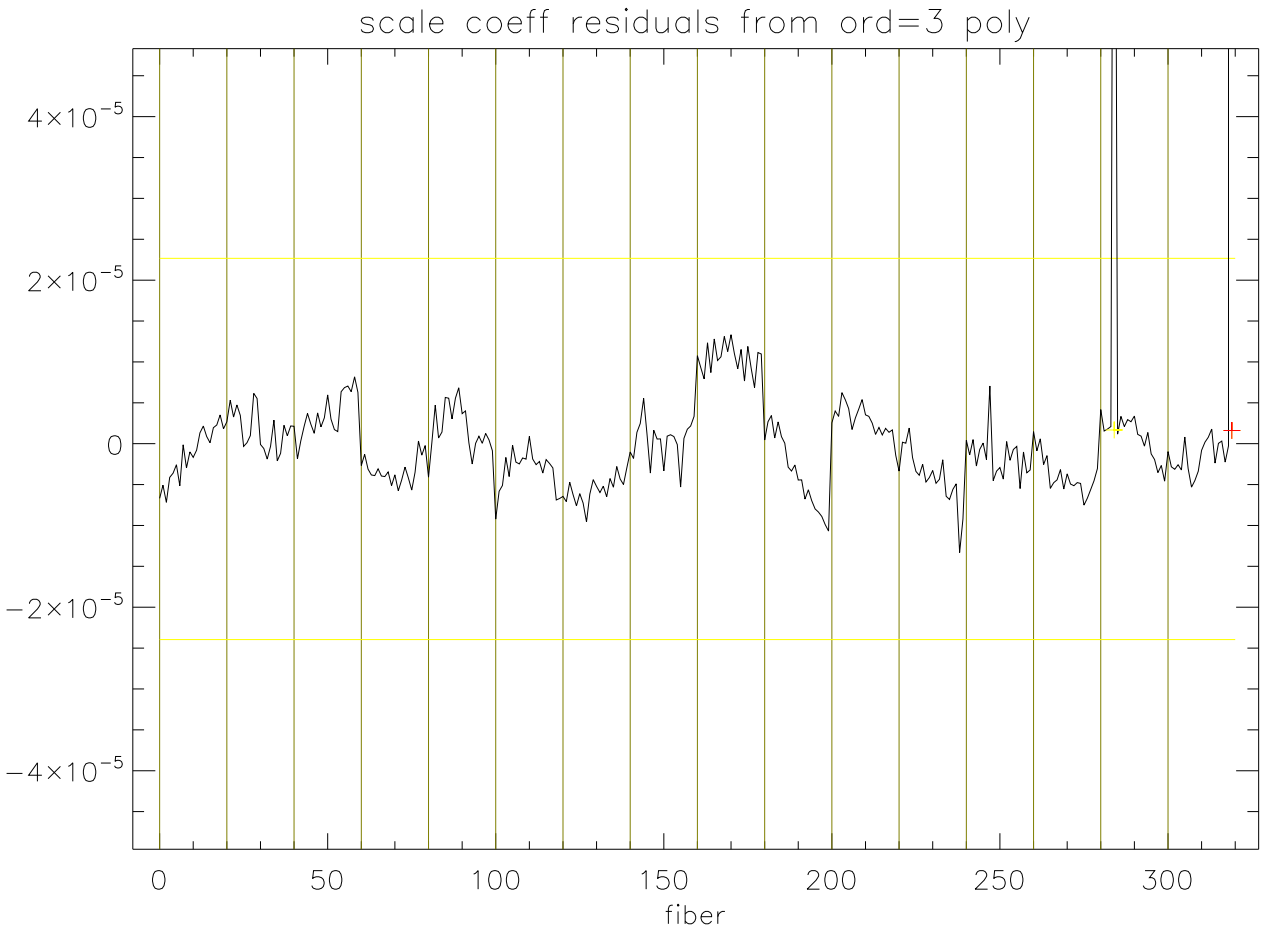

offset coeff residuals from ord=3 poly
0.0001
0.0000
−0.0001
0
50
100
150
200
250
300
fiber

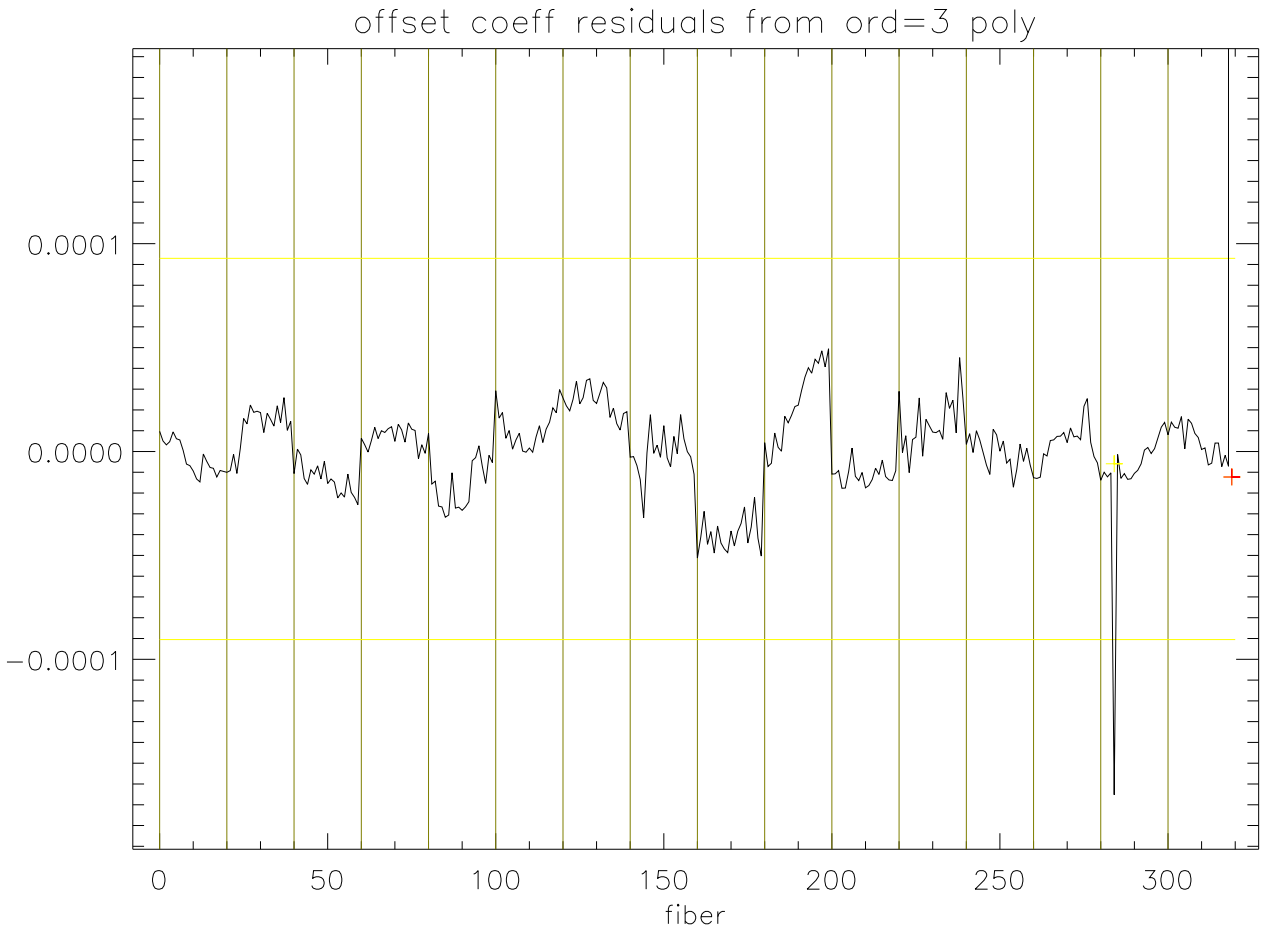

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

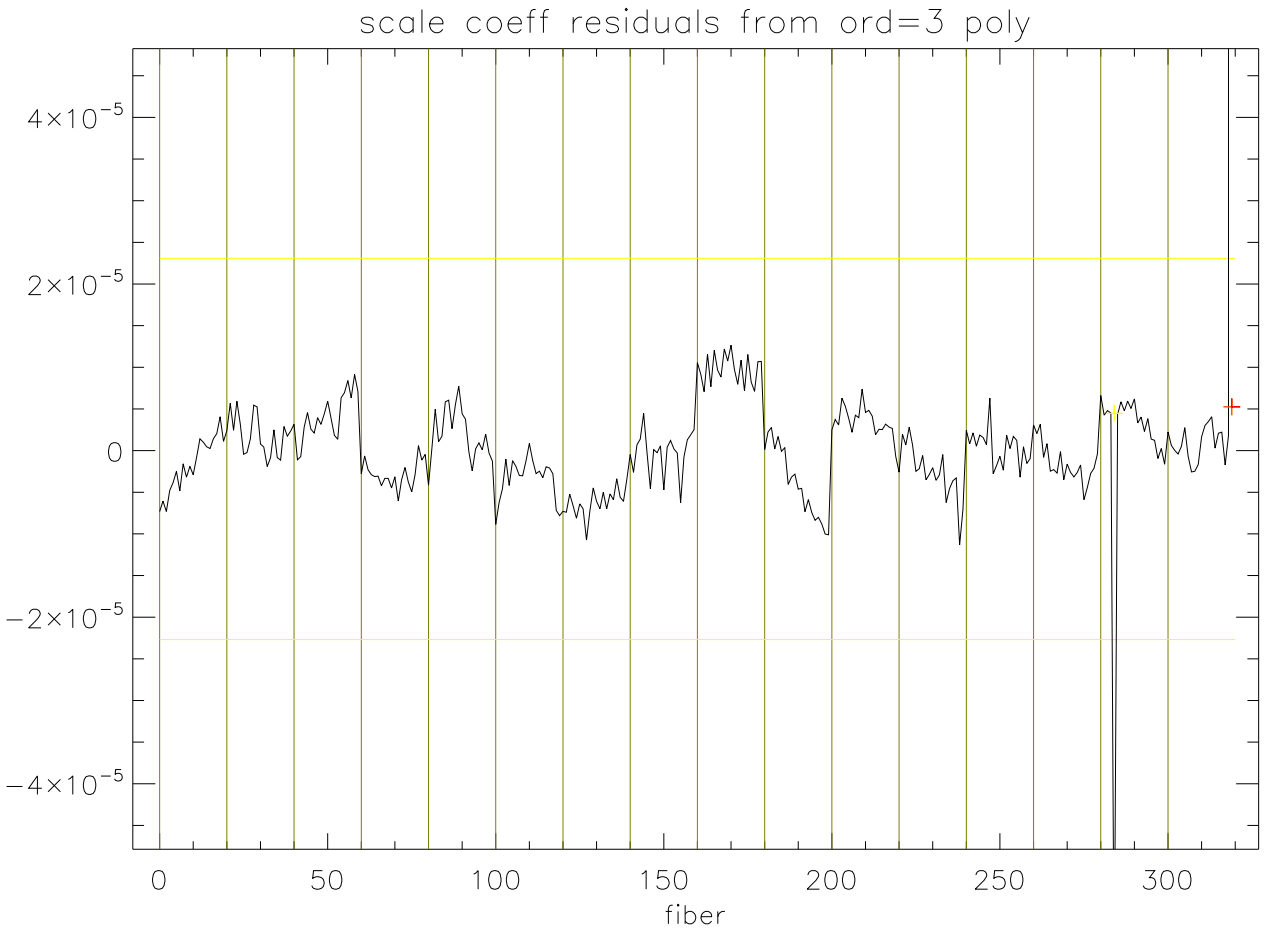

offset coeff residuals from ord=3 poly
0.0001
0.0000
−0.0001
0
50
100
150
200
250
300
fiber

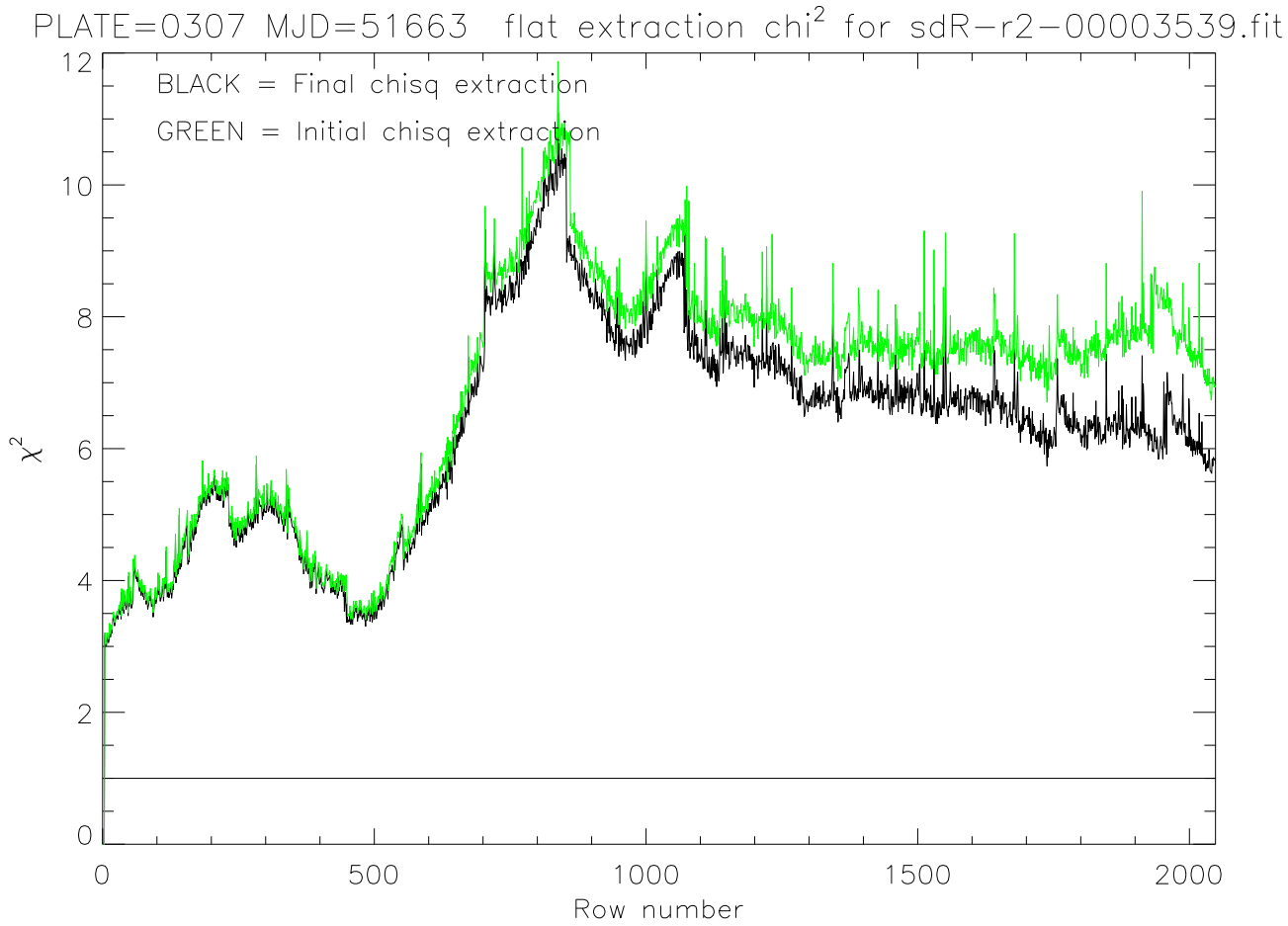

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

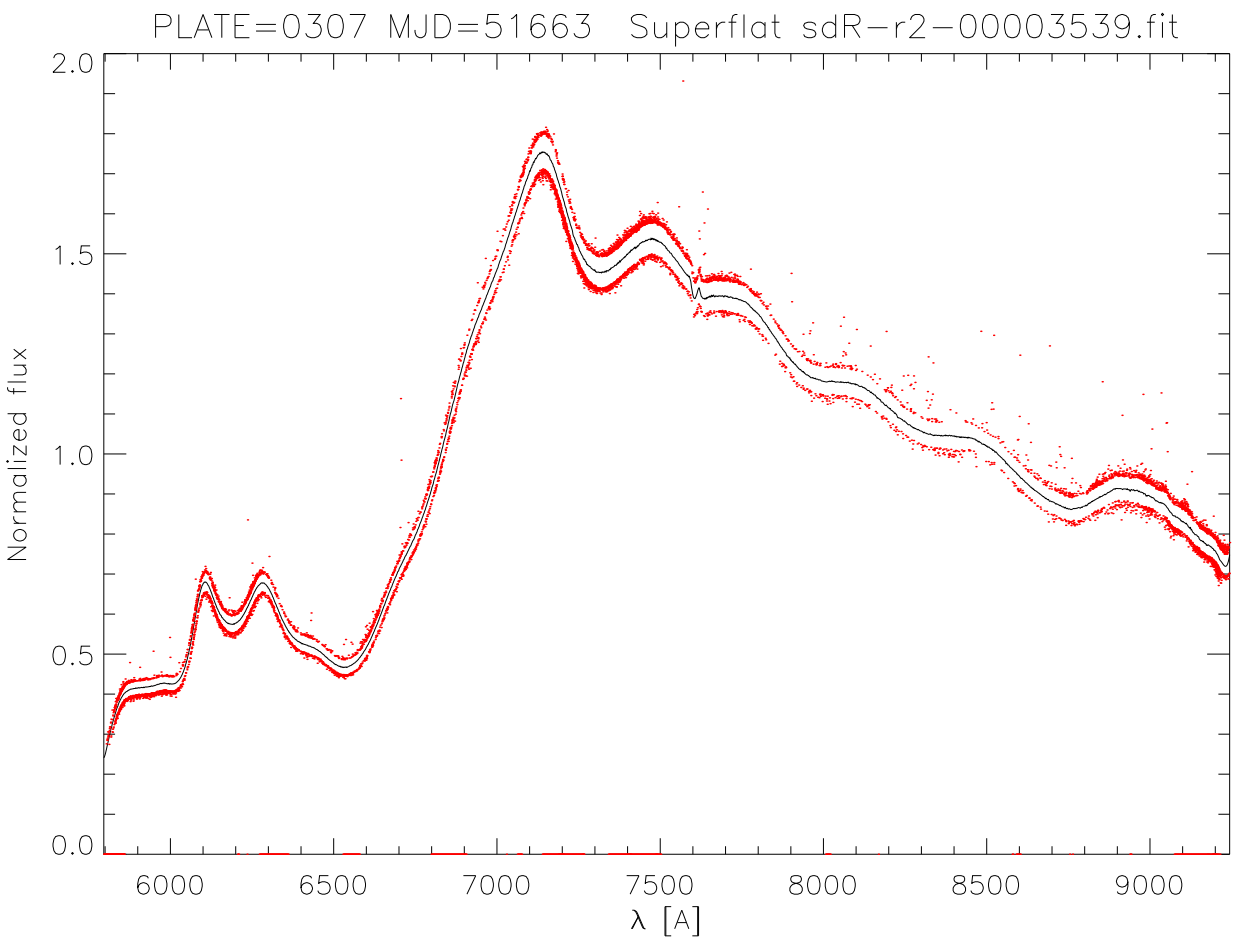

offset coeff residuals from ord=3 poly
0.0001
0.0000
−0.0001
0
50
100
150
200
250
300
fiber

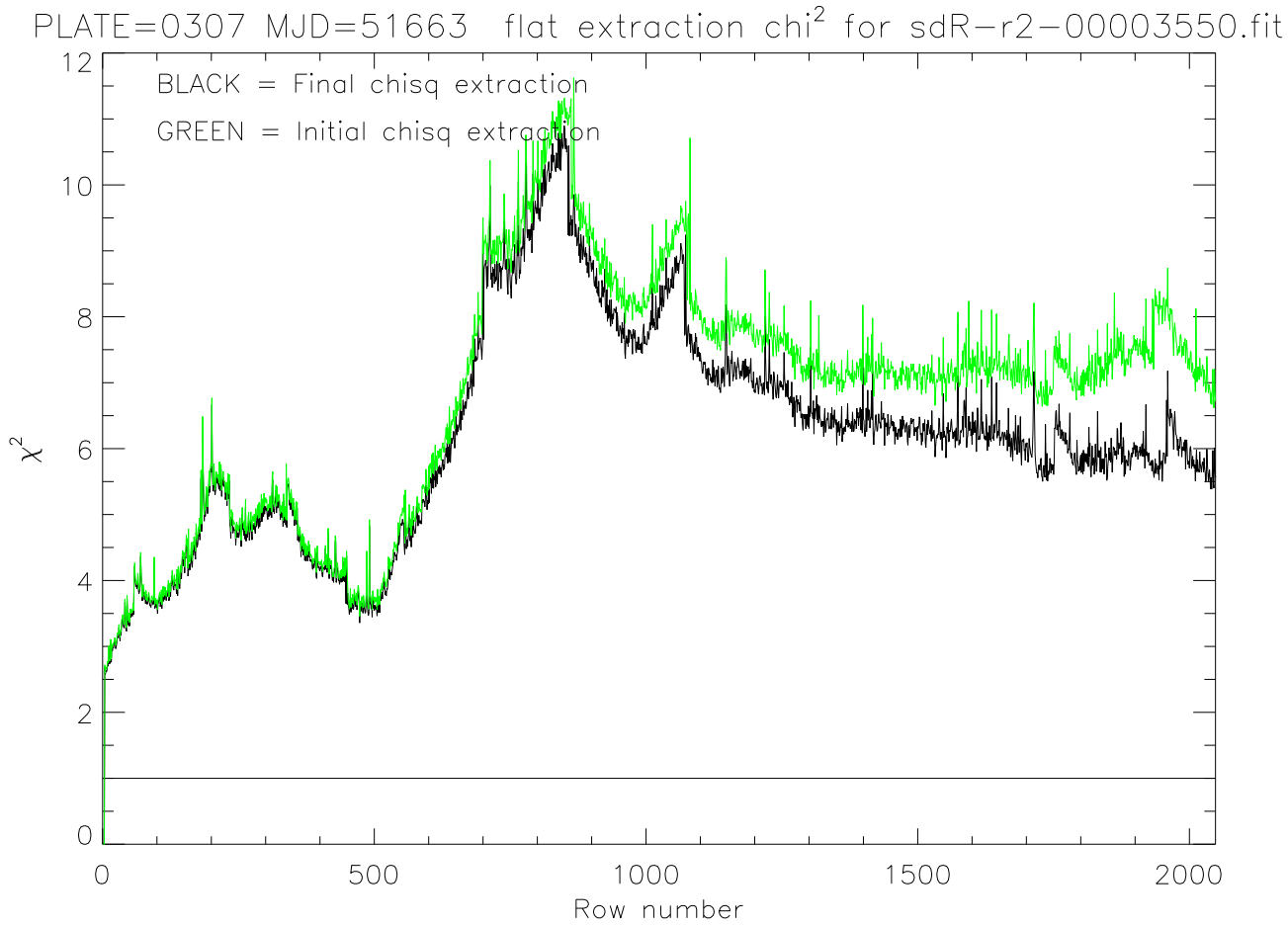

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

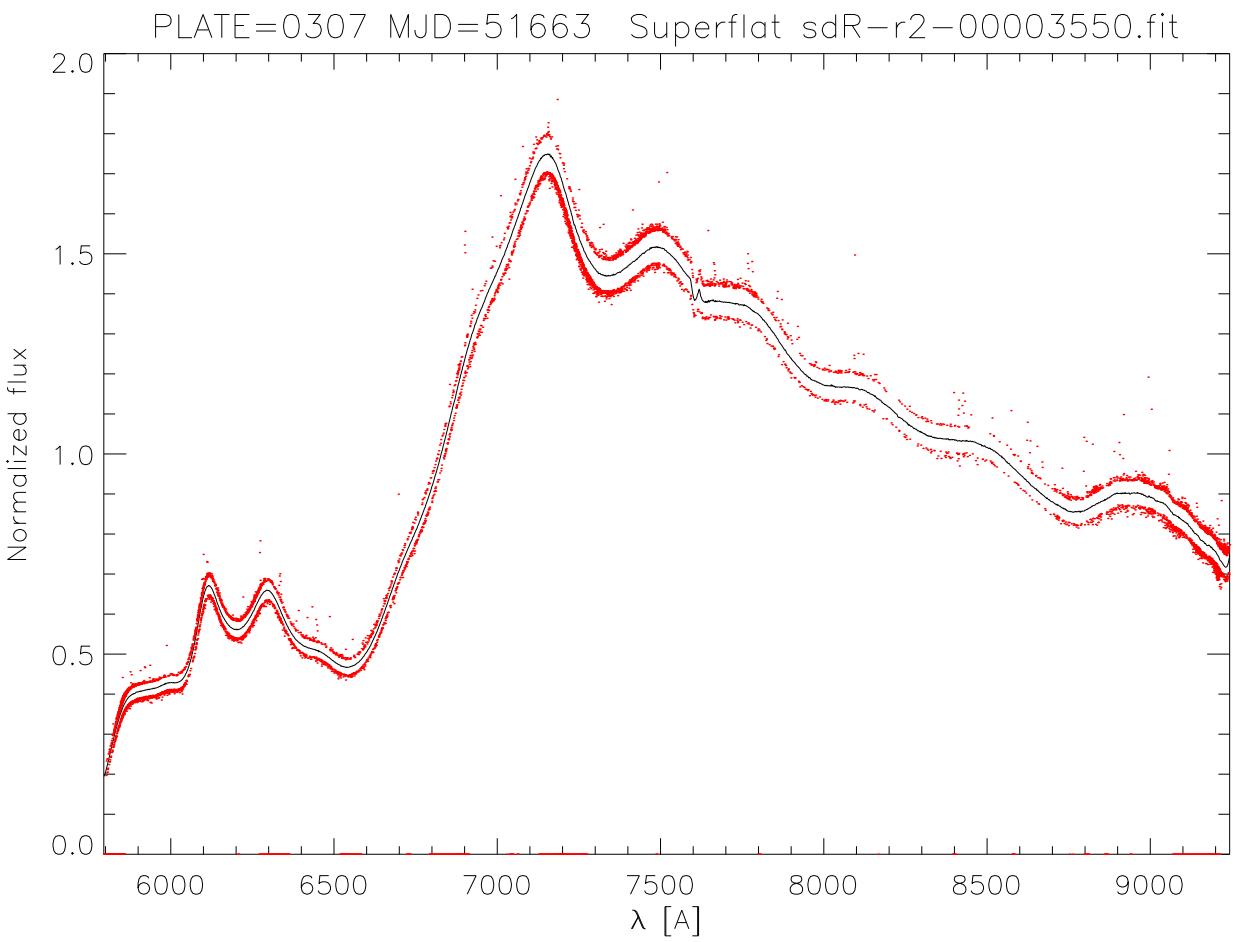

offset coeff residuals from ord=3 poly
0.0001
0.0000
−0.0001
0
50
100
150
200
250
300
fiber

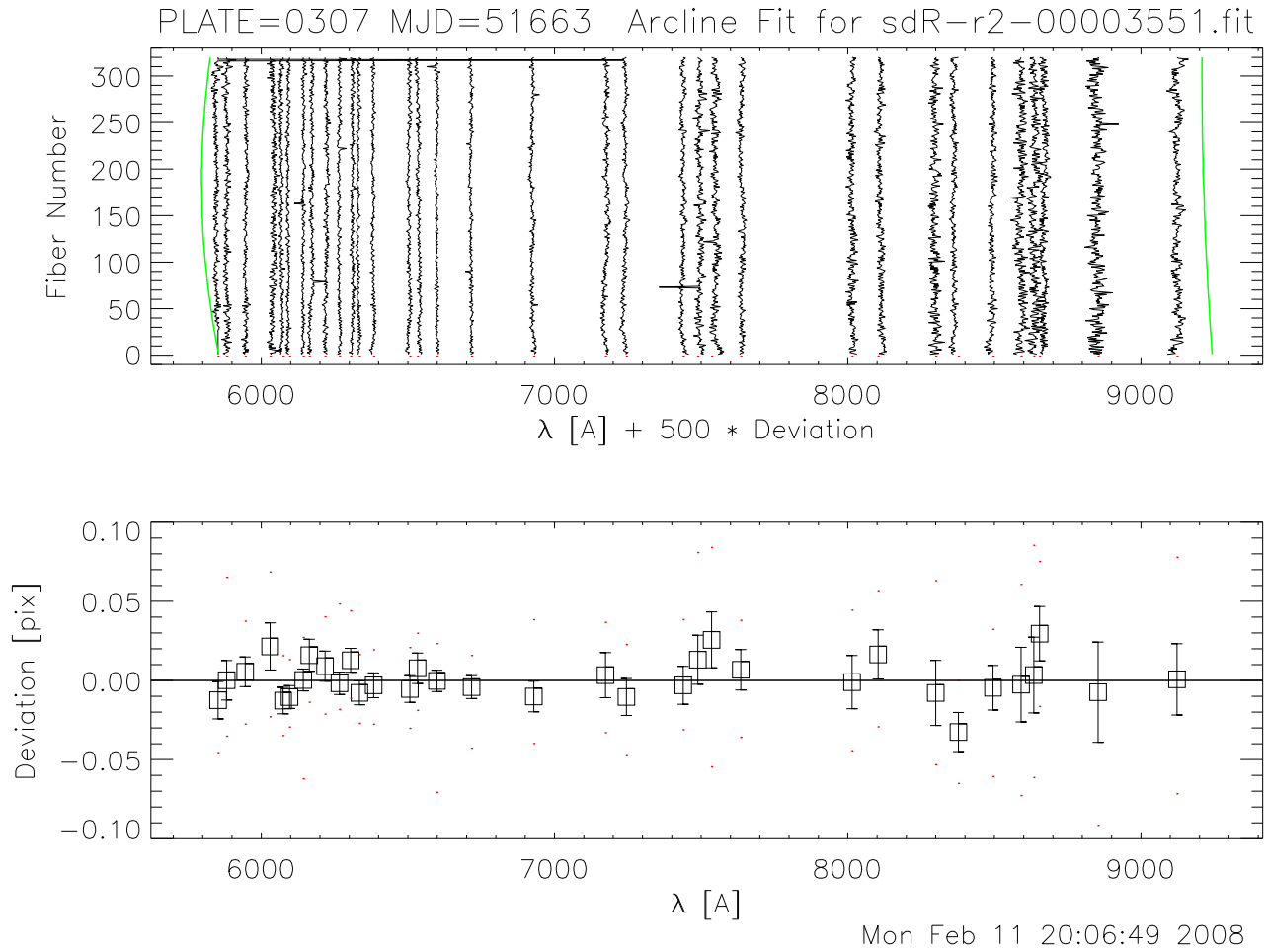

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

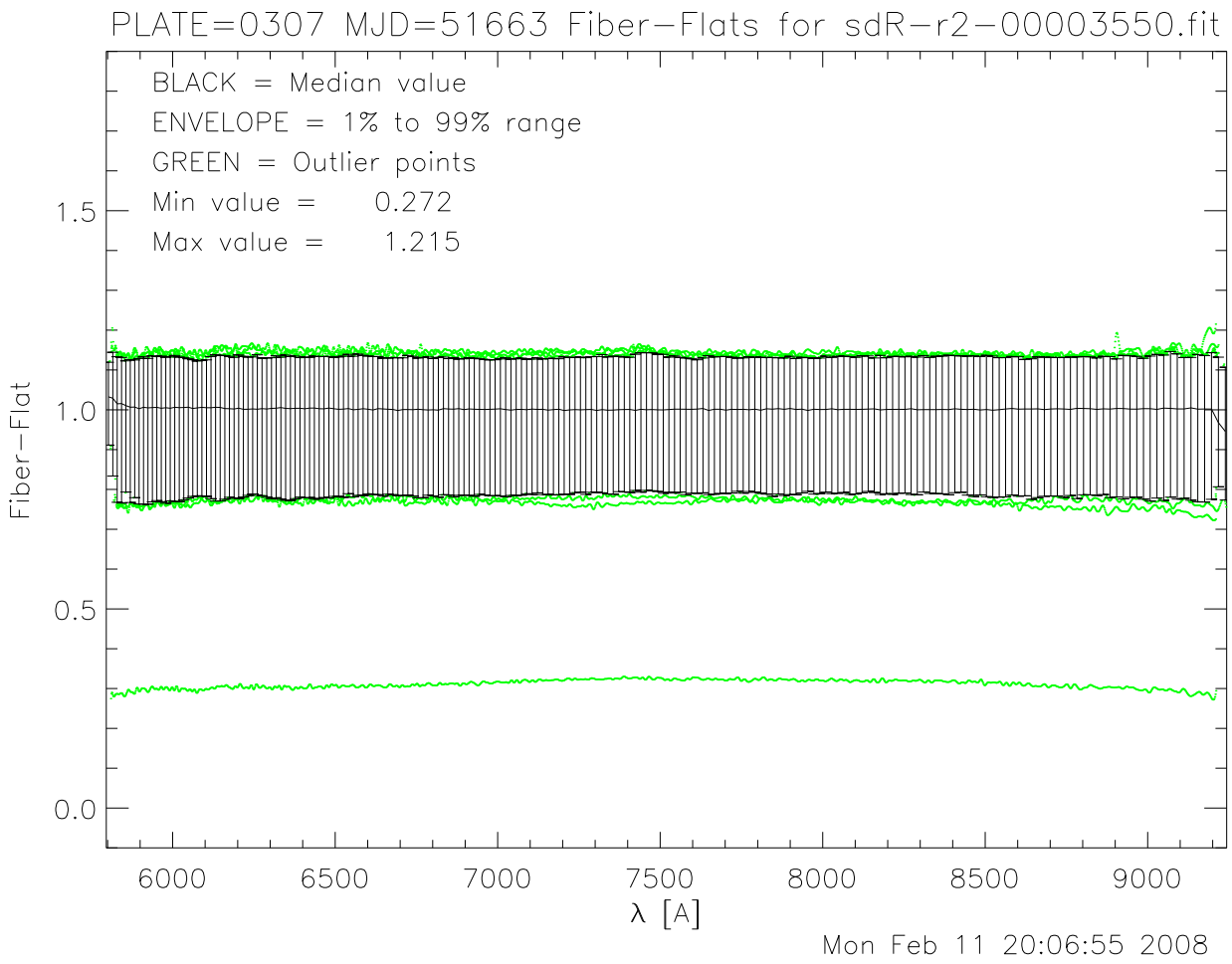

PLATE=0307 MJD=51663 flat extraction chi^2 for sdR−r2−00003539.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

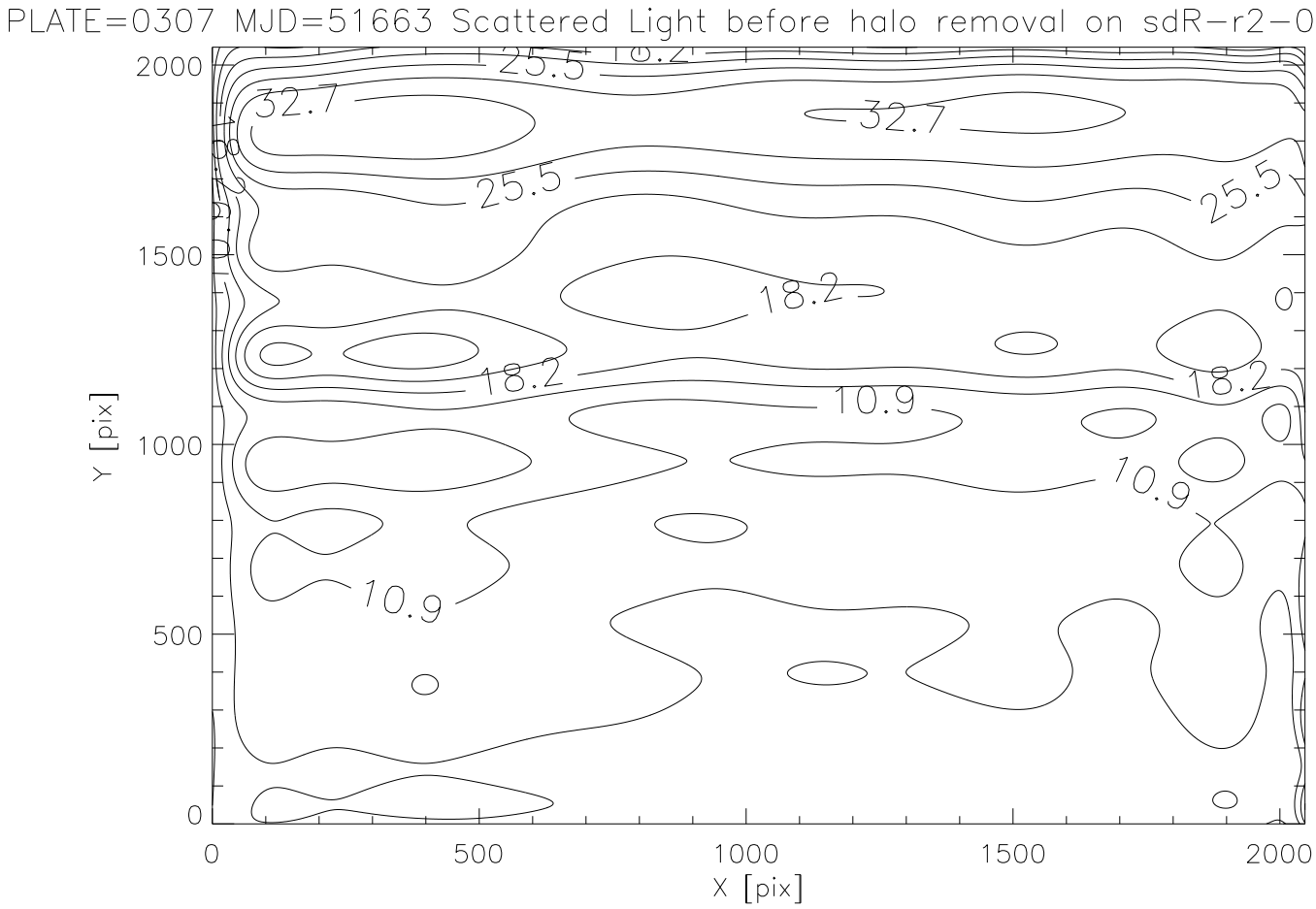

PLATE=0307 MJD=51663 Superflat sdR-r2-00003539.fit
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
6000
6500
7000
7500
8000
8500
9000

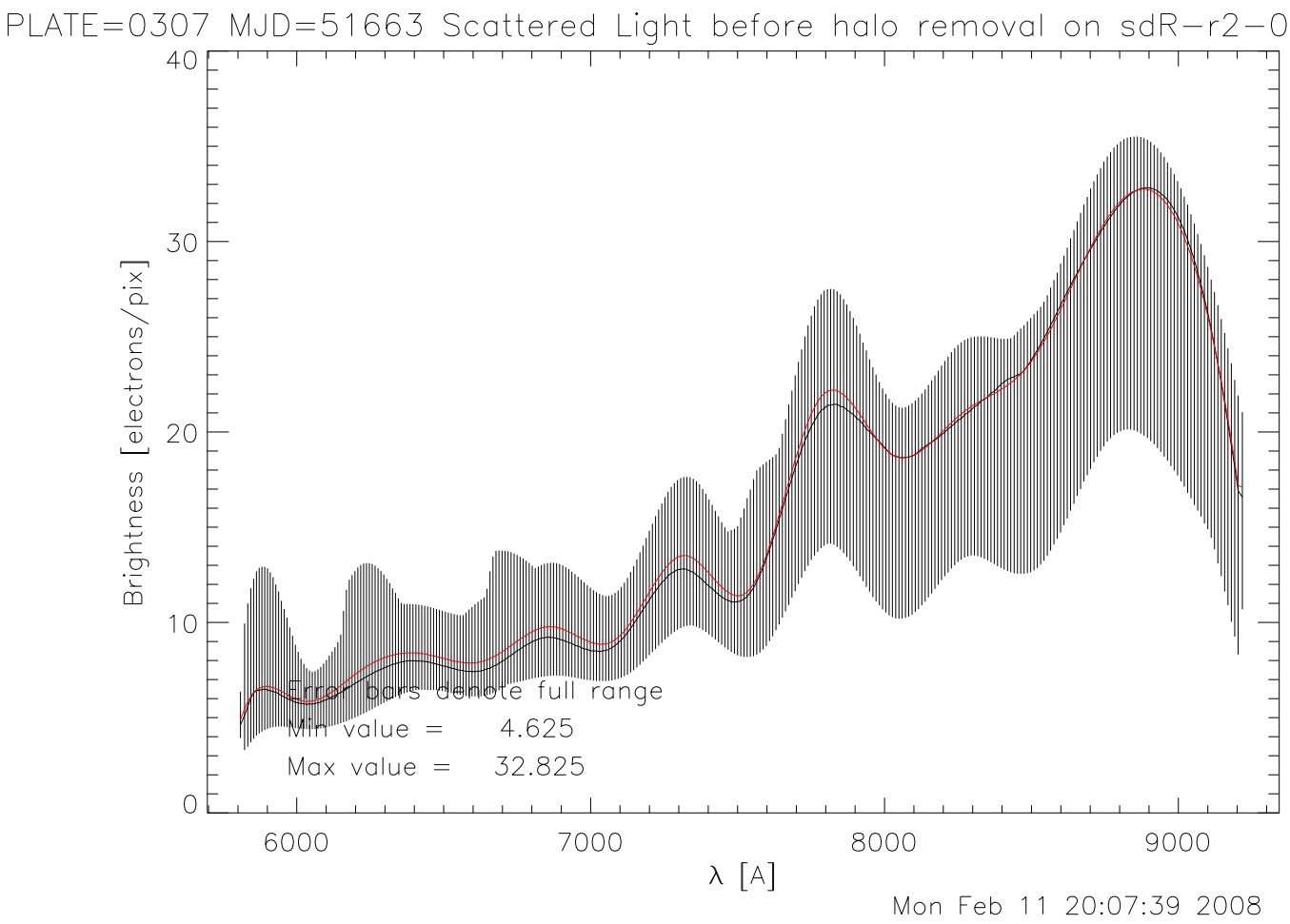

PLATE=0307 MJD=51663 flat extraction chi^2 for sdR-r2-00003550.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

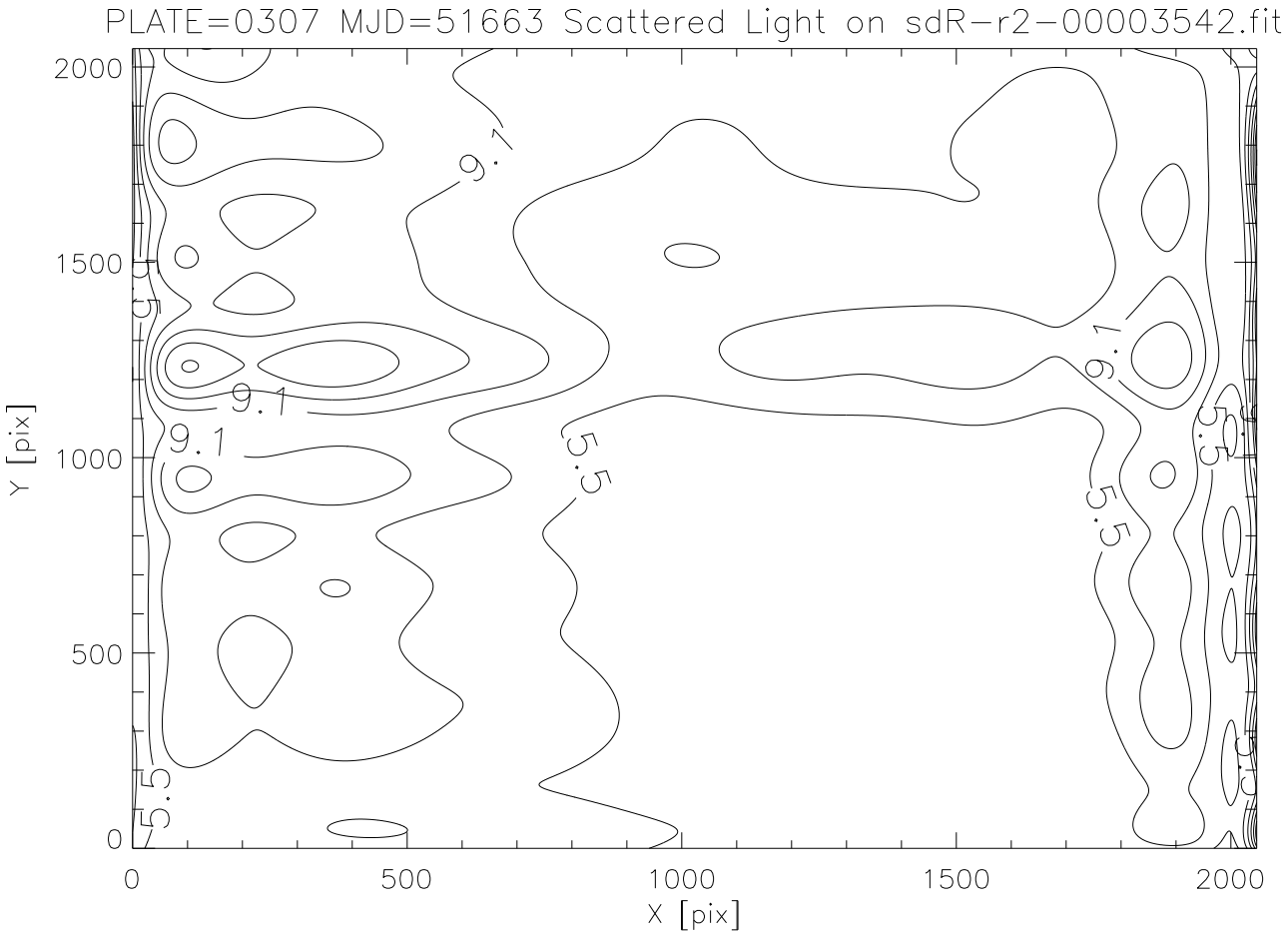

PLATE=0307 MJD=51663 Superflat sdR-r2-00003550.fit
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
6000
6500
7000
7500
8000
8500
9000

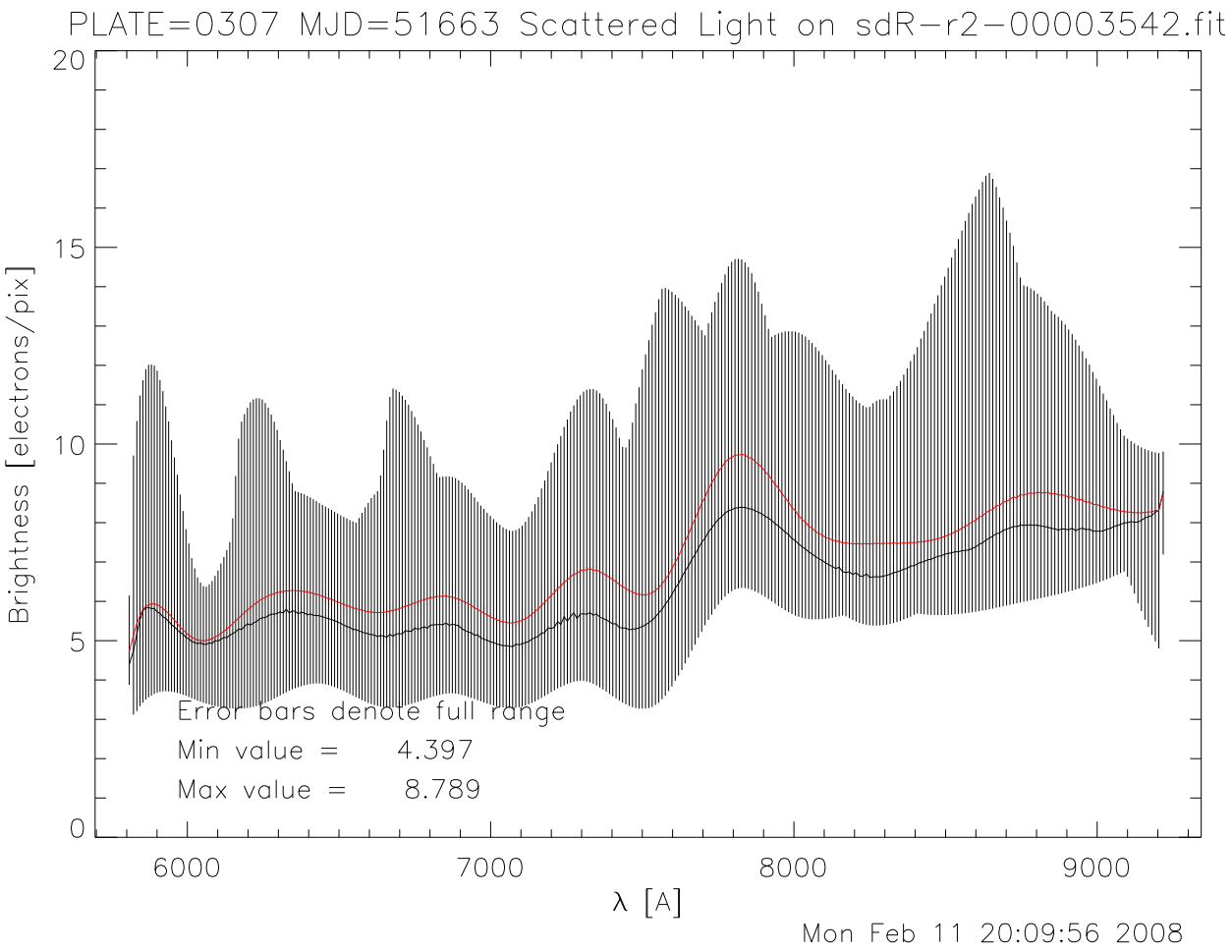

PLATE=0307 MJD=51663 Arcline Fit for sdR-r2-00003551.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Mon Feb 11 20:06:49 2008

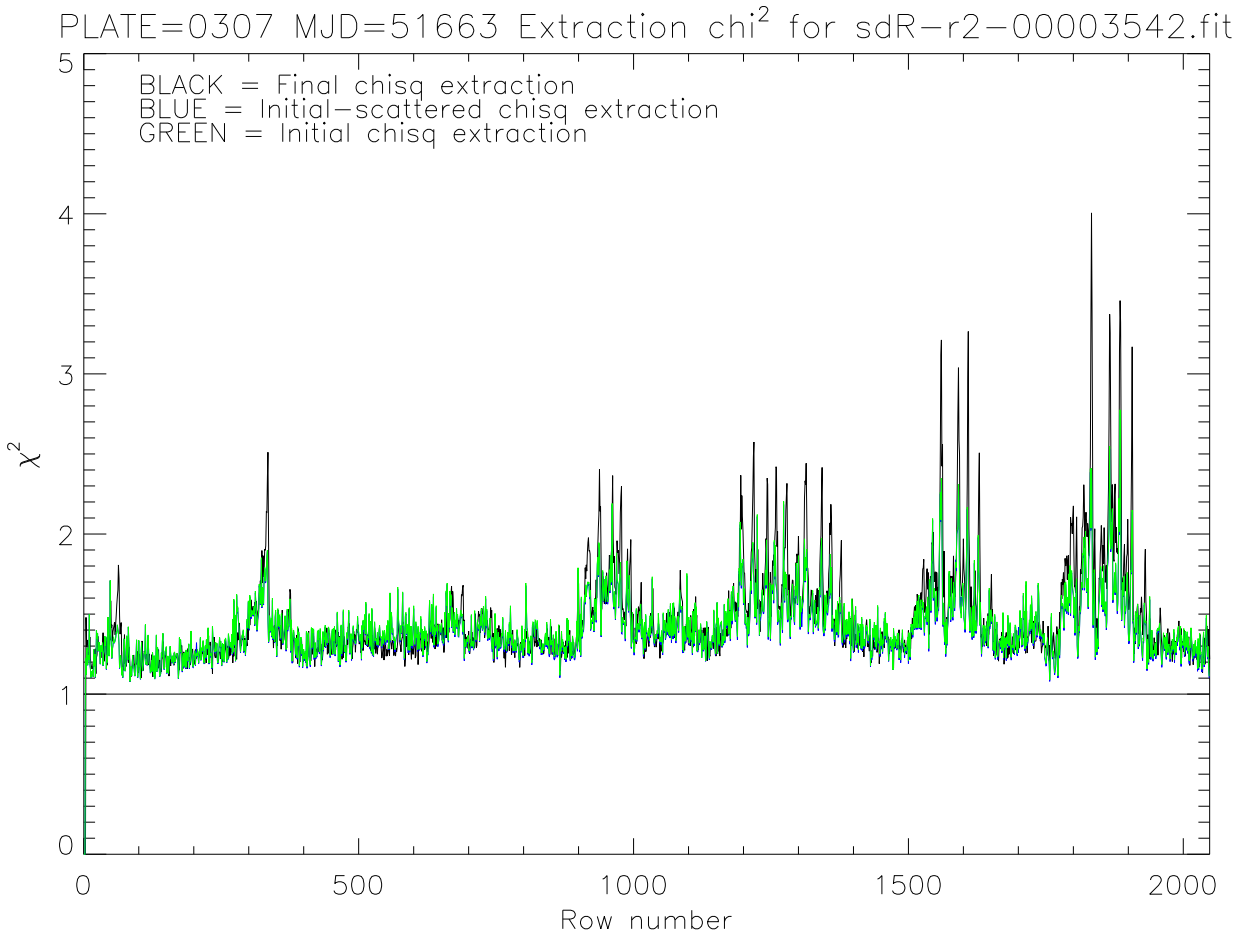

PLATE=0307 MJD=51663 Fiber-Flats for sdR-r2-00003550.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.272
Max value = 1.215
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 11 20:06:55 2008

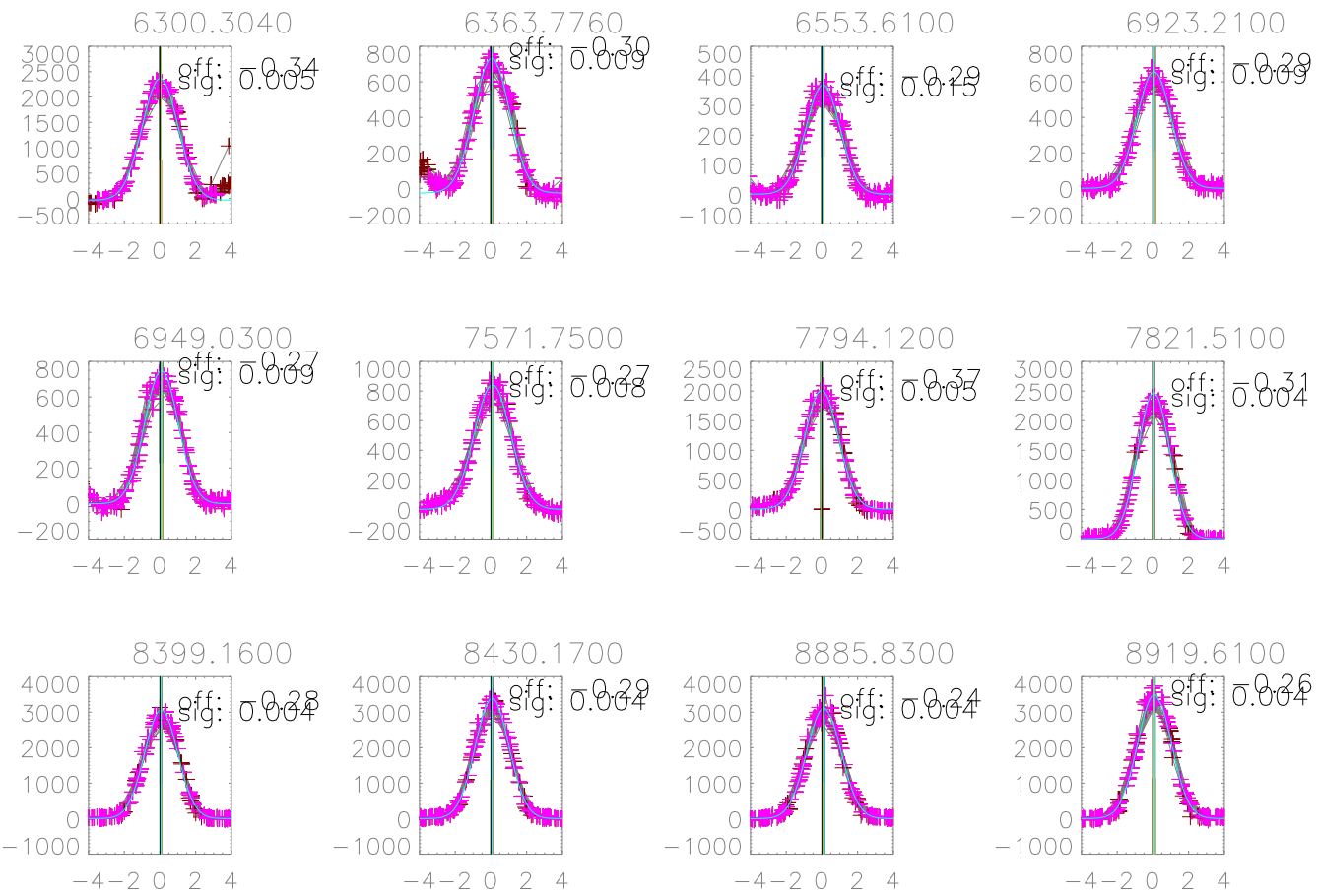

PLATE=0307 MJD=51663 Scattered Light before halo removal on sdR-r2-00003542.fi
25.5
32.7
32.7
25.5
25.5
18.2
18.2
18.2
10.9
10.9
10.9
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

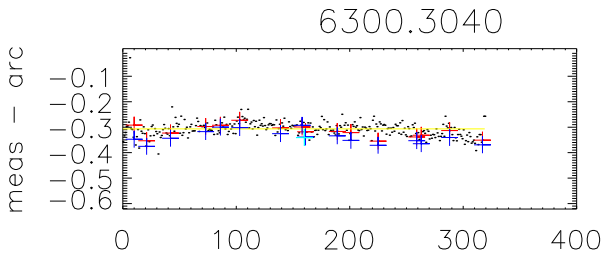

PLATE=0307 MJD=51663 Scattered Light before halo removal on sdR-r2-00003542.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.625
Max value = 32.825
Mon Feb 11 20:07:39 2008

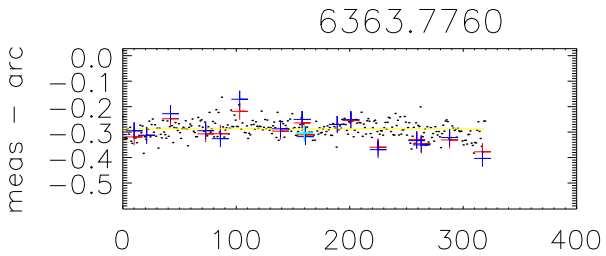

PLATE=0307 MJD=51663 Scattered Light on sdR-r2-00003542.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
9.1
5.5

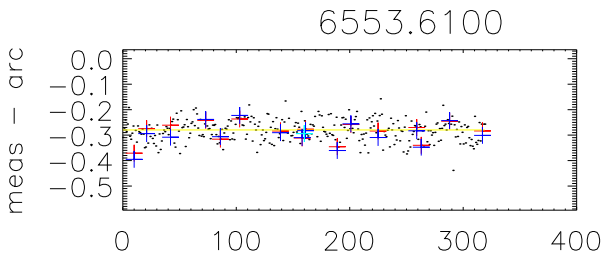

PLATE=0307 MJD=51663 Scattered Light on sdR-r2-00003542.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.397
Max value = 8.789
Mon Feb 11 20:09:56 2008

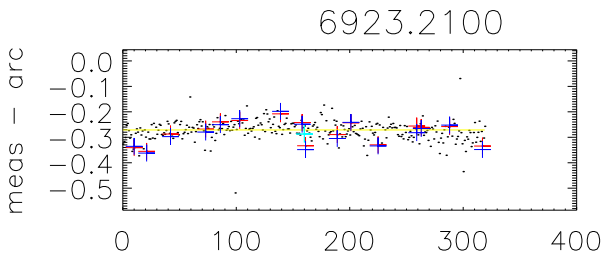

PLATE=0307 MJD=51663 Extraction chi^2 for sdR-r2-00003542.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

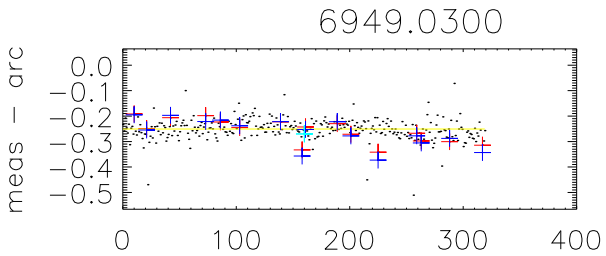

6300.3040
off: −0.34
sig: 0.005
6363.7760
off: −0.30
sig: 0.009
6553.6100
off: −0.29
sig: 0.015
6923.2100
off: −0.29
sig: 0.009
6949.0300
off: −0.27
sig: 0.009
7571.7500
off: −0.27
sig: 0.008
7794.1200
off: −0.37
sig: 0.005
7821.5100
off: −0.31
sig: 0.004
8399.1600
off: −0.28
sig: 0.004
8430.1700
off: −0.29
sig: 0.004
8885.8300
off: −0.24
sig: 0.004
8919.6100
off: −0.26
sig: 0.004

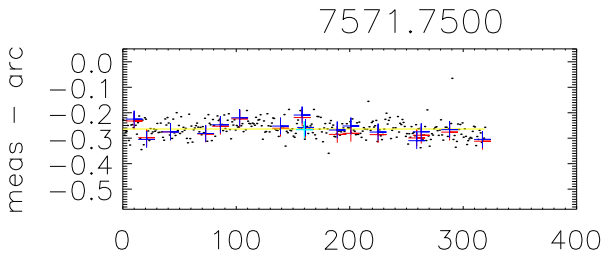

6300.3040
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

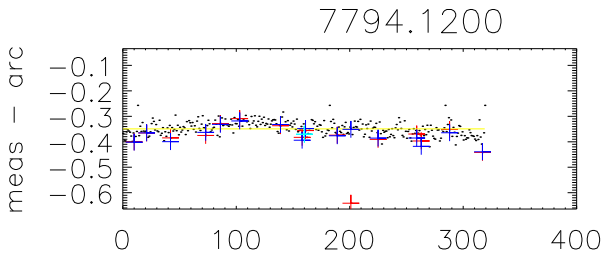

6363.7760
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

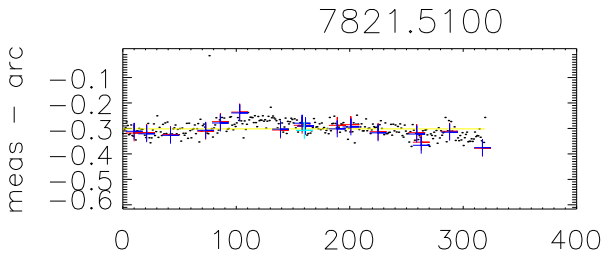

6553.6100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

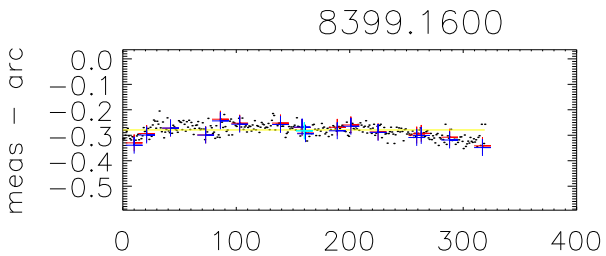

6923.2100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

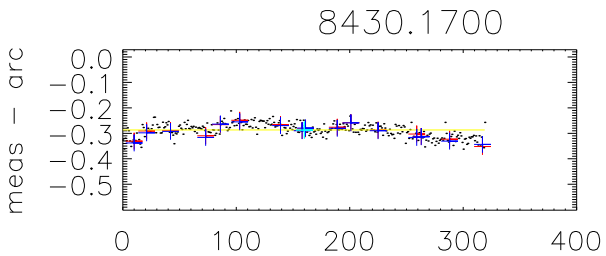

6949.0300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

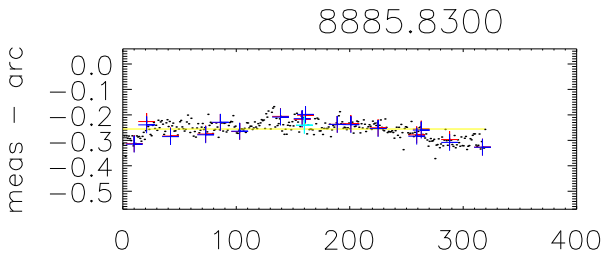

7571.7500
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

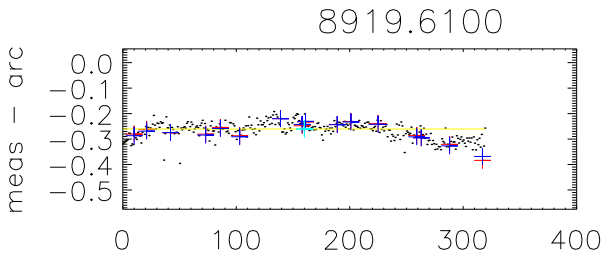

7794.1200
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

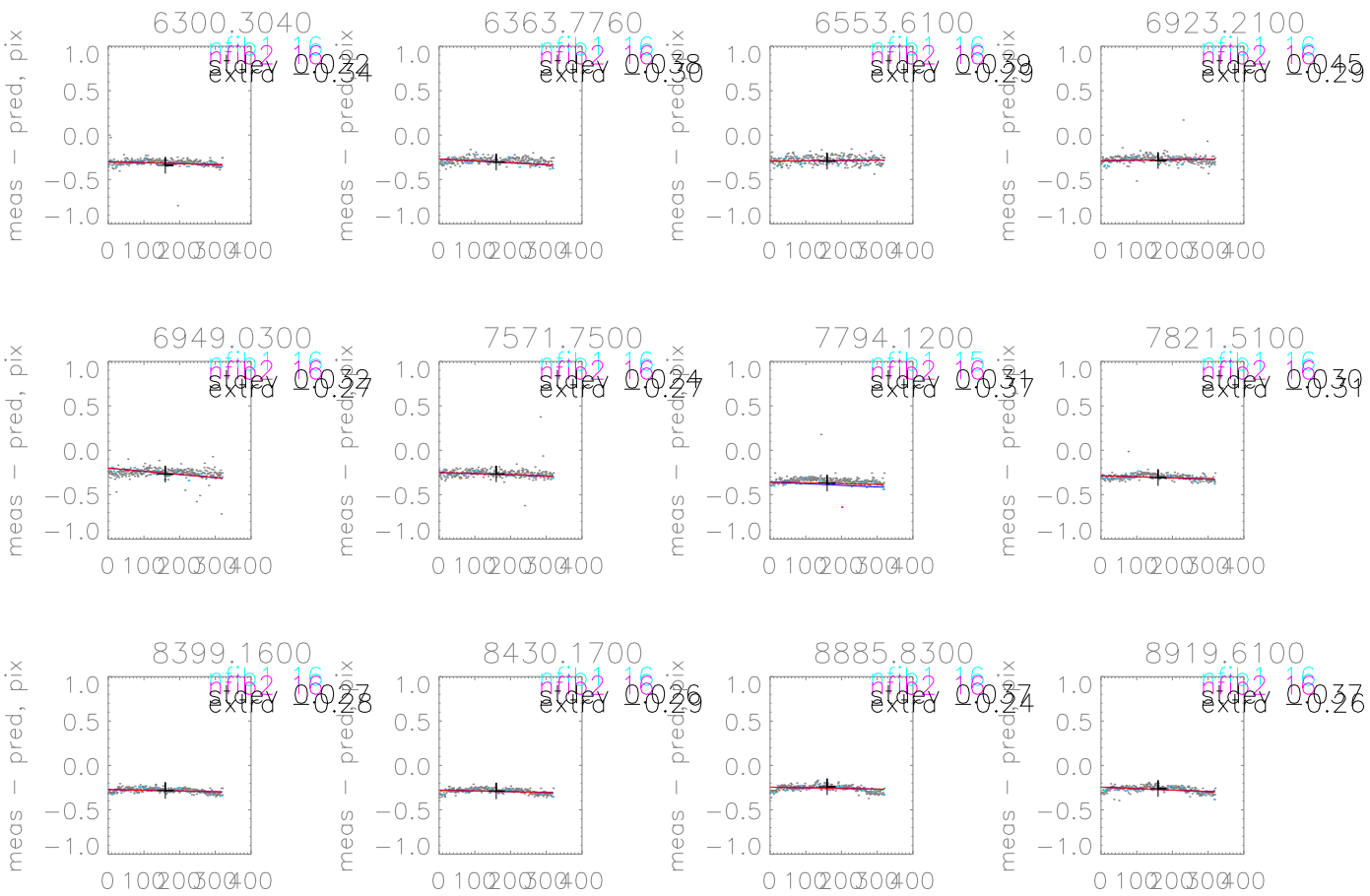

7821.5100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

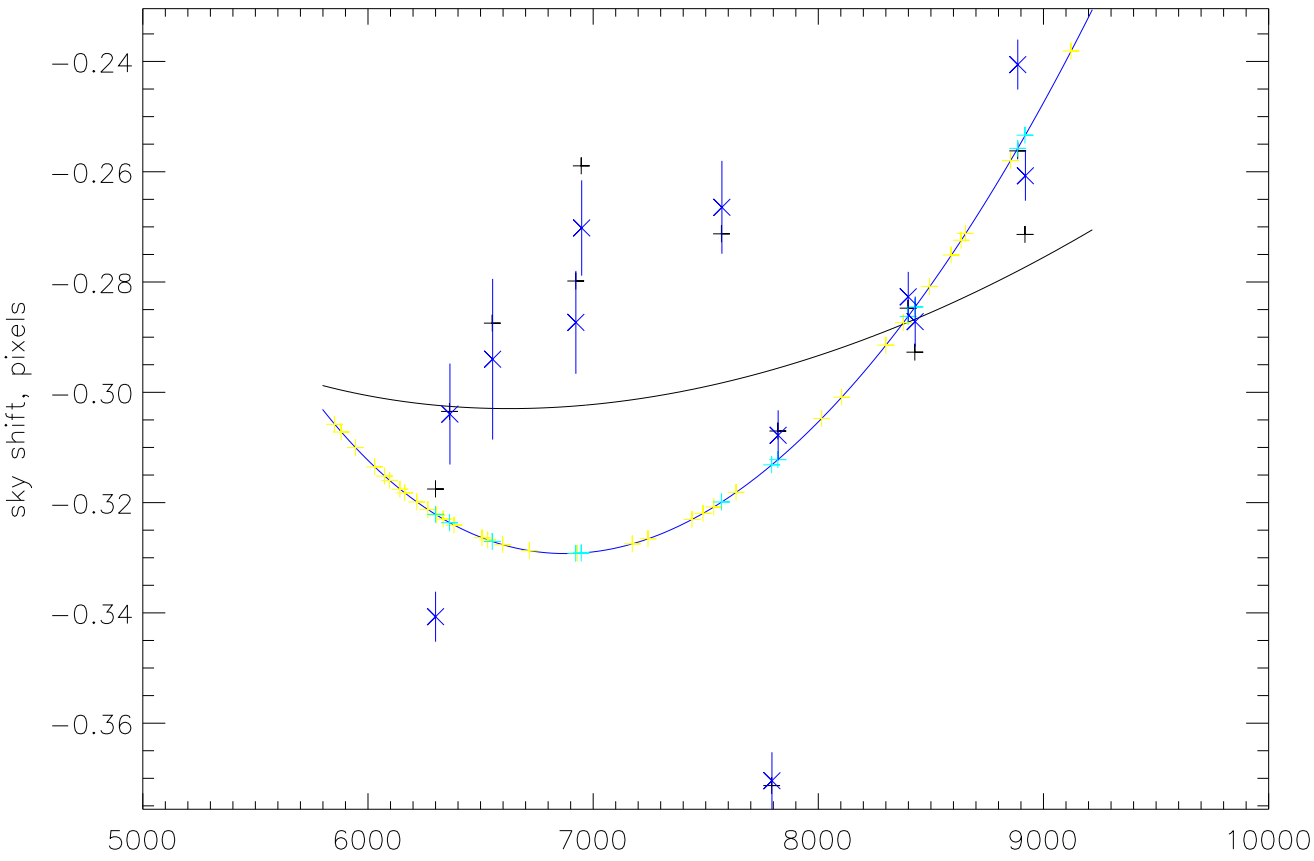

8399.1600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

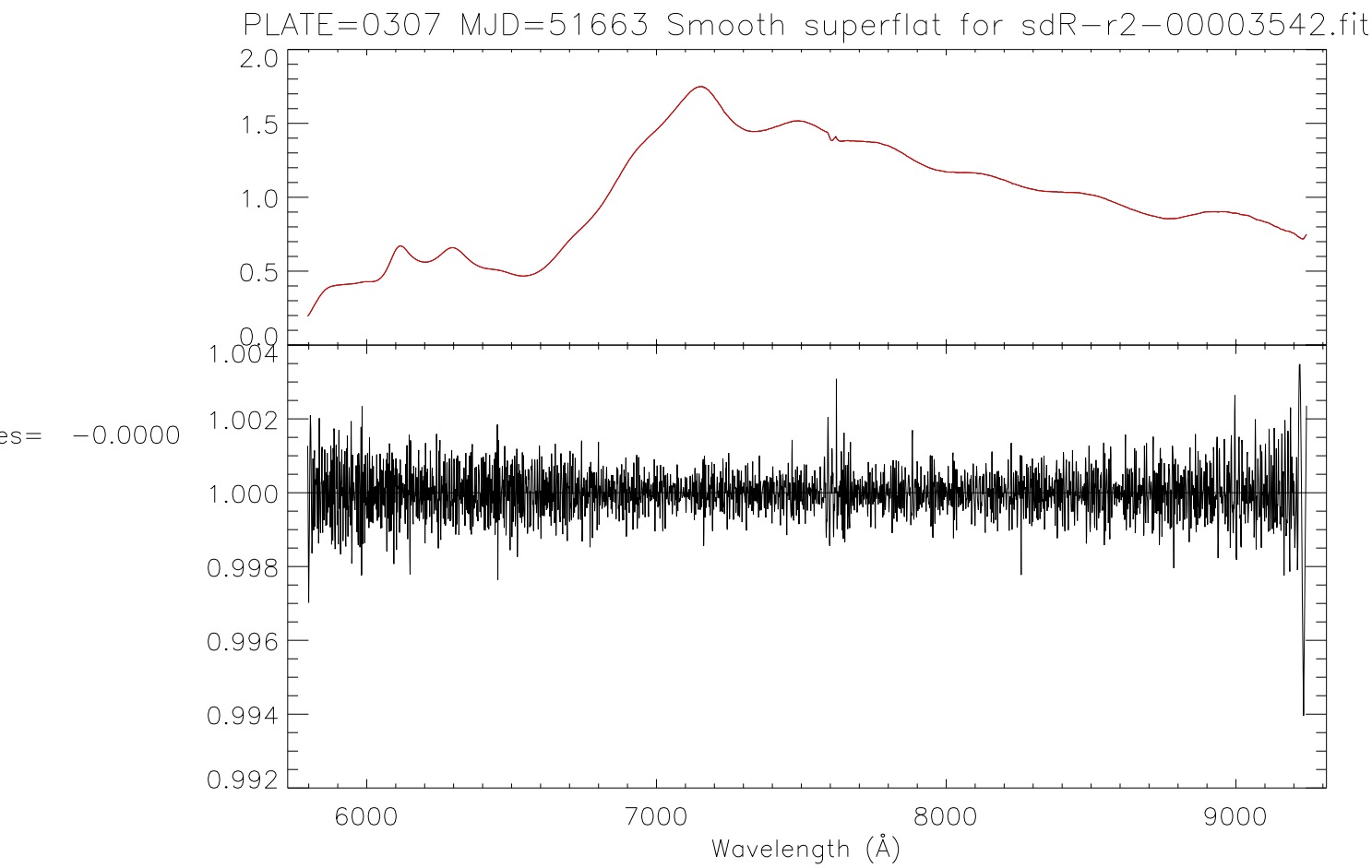

8430.1700
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400


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

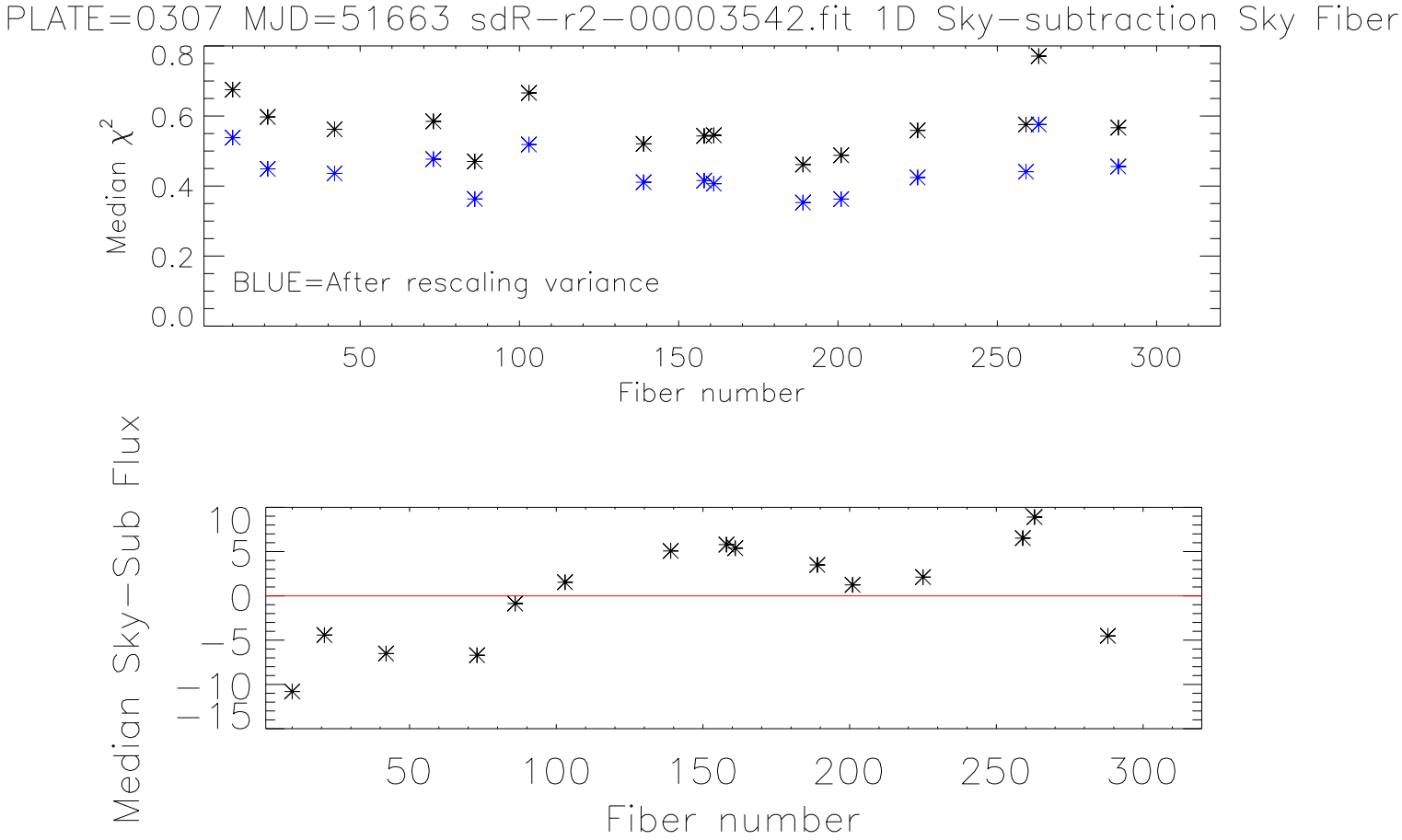

8919.6100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

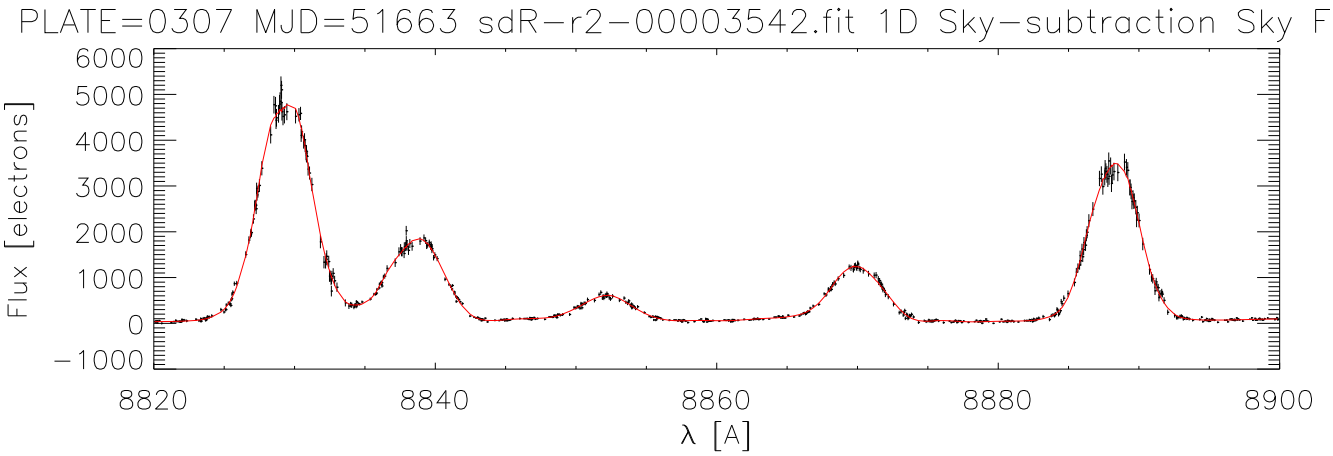

6300.3040
stdev 0.22
extra 0.34
6363.7760
stdev 0.38
extra 0.30
6553.6100
stdev 0.39
extra 0.29
6923.2100
stdev 0.45
extra 0.29
6949.0300
stdev 0.32
extra 0.27
7571.7500
stdev 0.34
extra 0.27
7794.1200
stdev 0.31
extra 0.37
7821.5100
stdev 0.30
extra 0.31
8399.1600
stdev 0.27
extra 0.28
8430.1700
stdev 0.26
extra 0.29
8885.8300
stdev 0.37
extra 0.24
8919.6100
stdev 0.37
extra 0.26
meas − pred, pix
meas − pred, pix

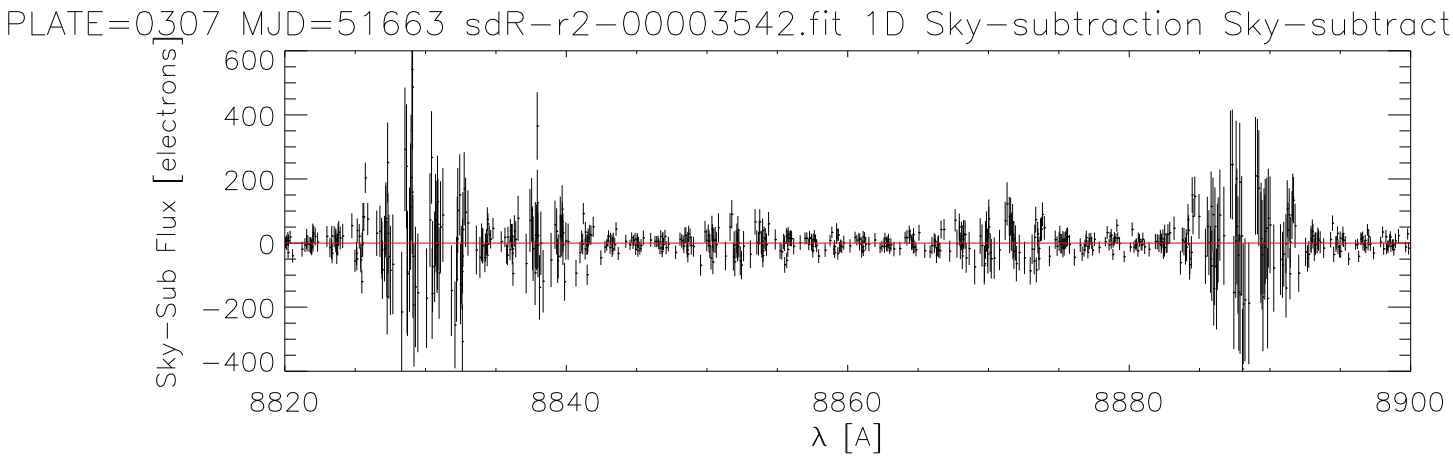

−0.24
−0.26
−0.28
−0.30
−0.32
−0.34
−0.36
sky shift, pixels
5000
6000
7000
8000
9000
10000

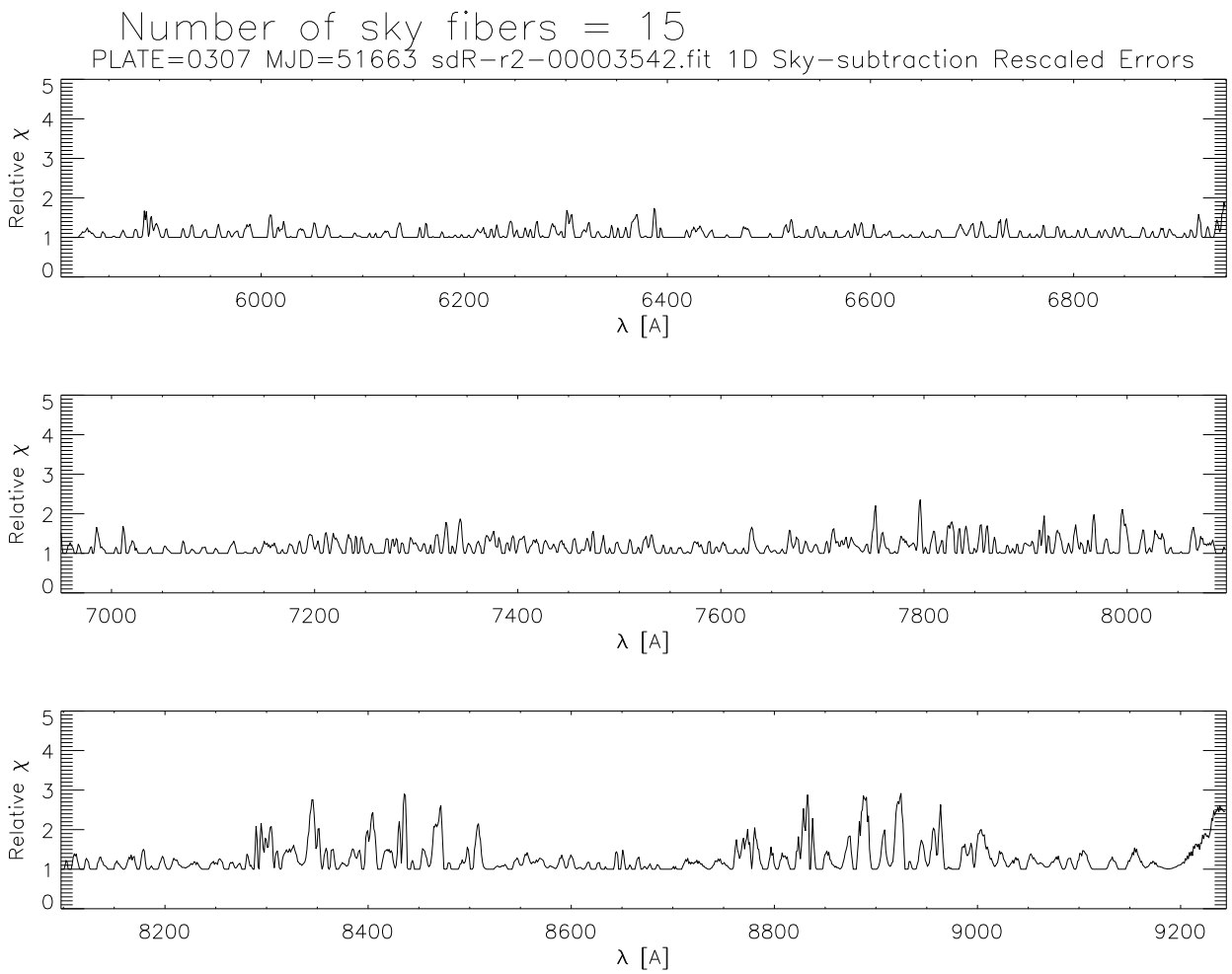

PLATE=0307 MJD=51663 Smooth superflat for sdR-r2-00003542.fit
2.0
1.5
1.0
0.5
0.0
1.004
1.002
1.000
0.998
0.996
0.994
0.992
6000
7000
8000
9000
Wavelength (Å)

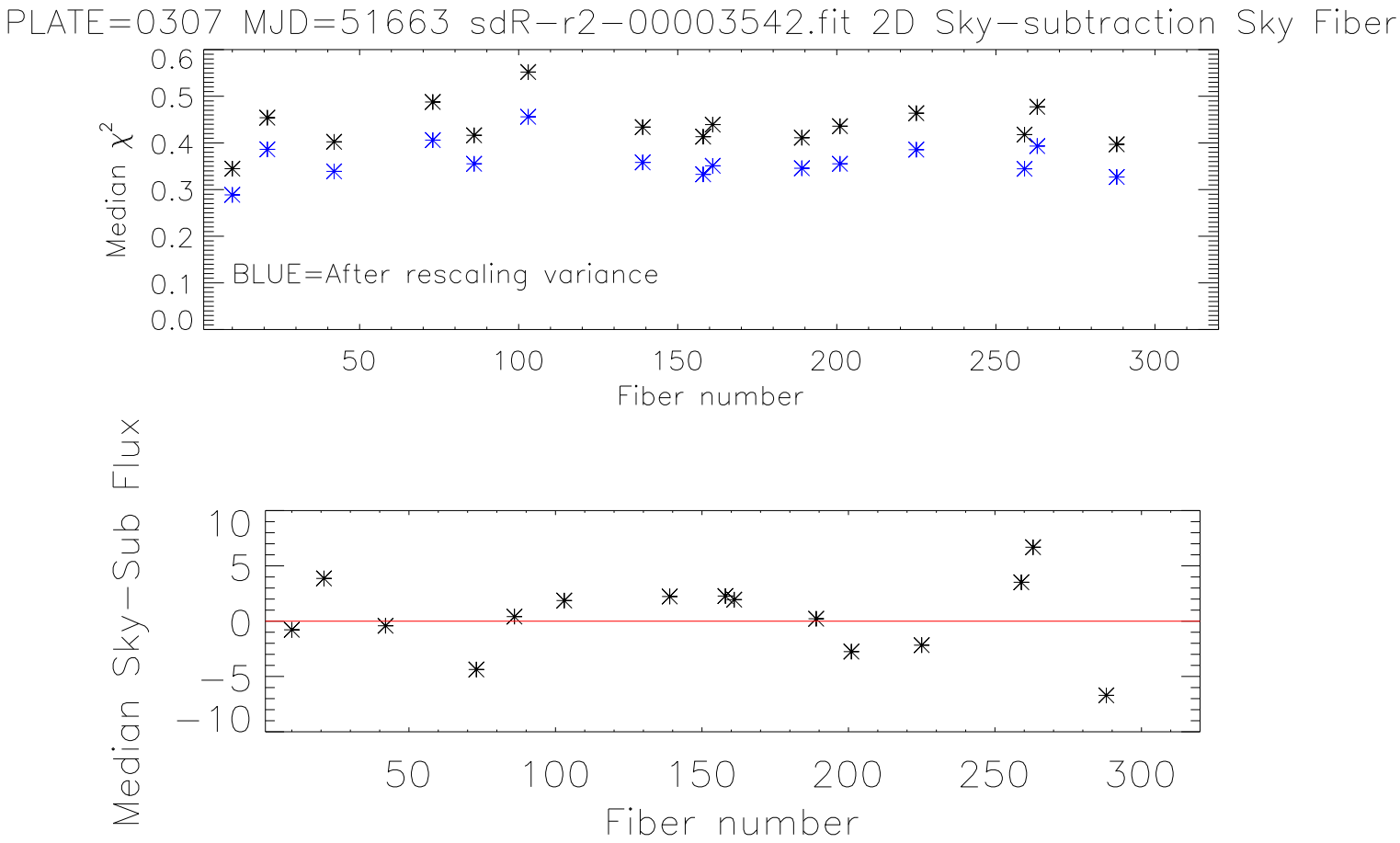
es= −0.0000

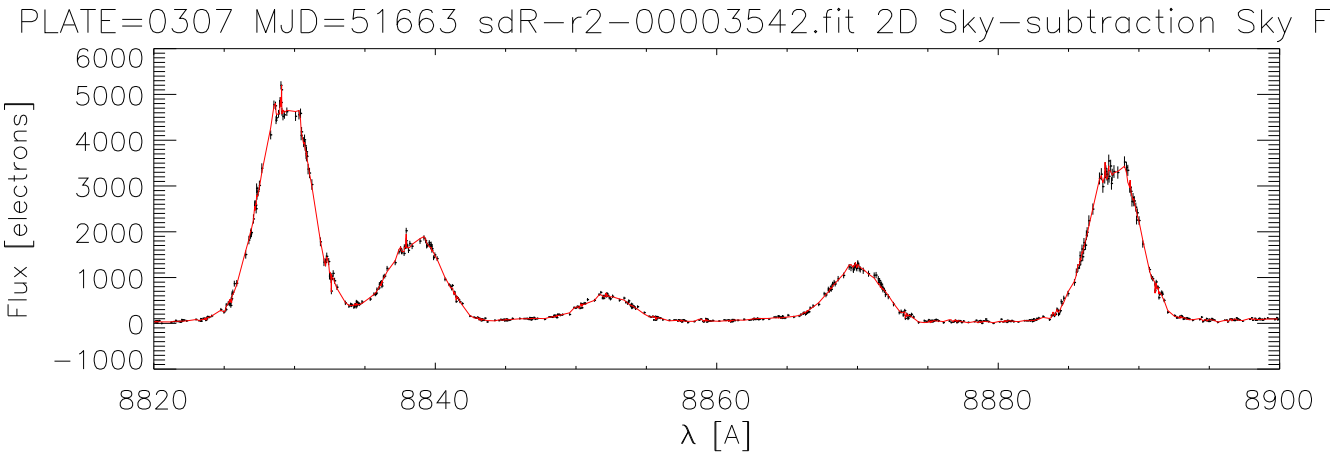

PLATE=0307 MJD=51663 sdR-r2-00003542.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

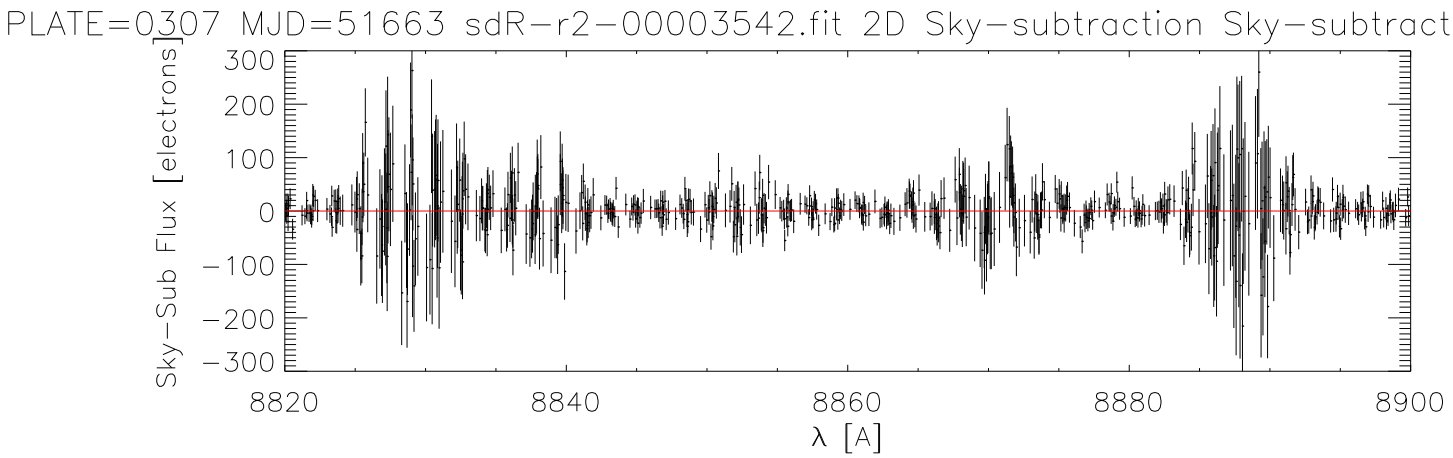

PLATE=0307 MJD=51663 sdR-r2-00003542.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

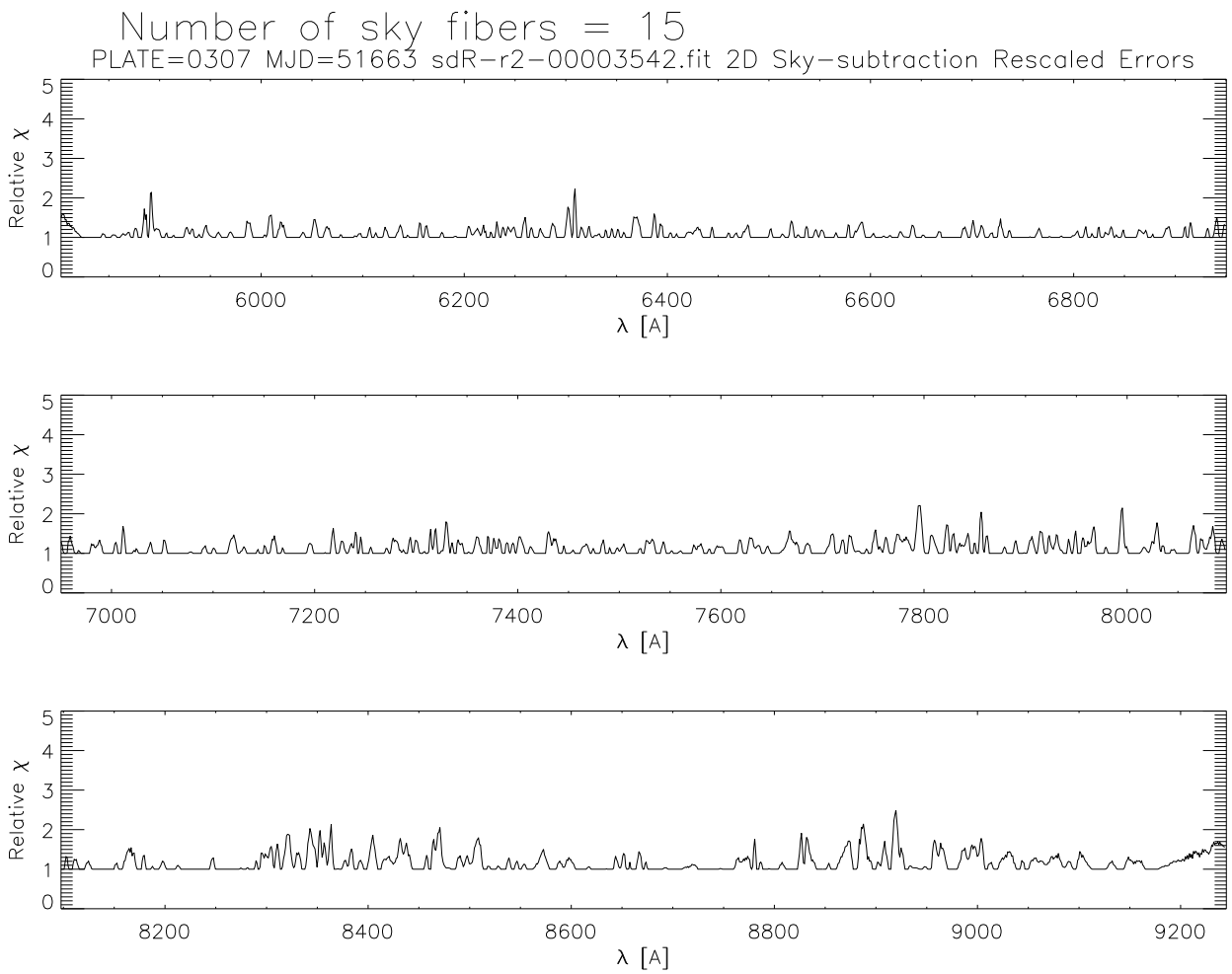

PLATE=0307 MJD=51663 sdR-r2-00003542.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

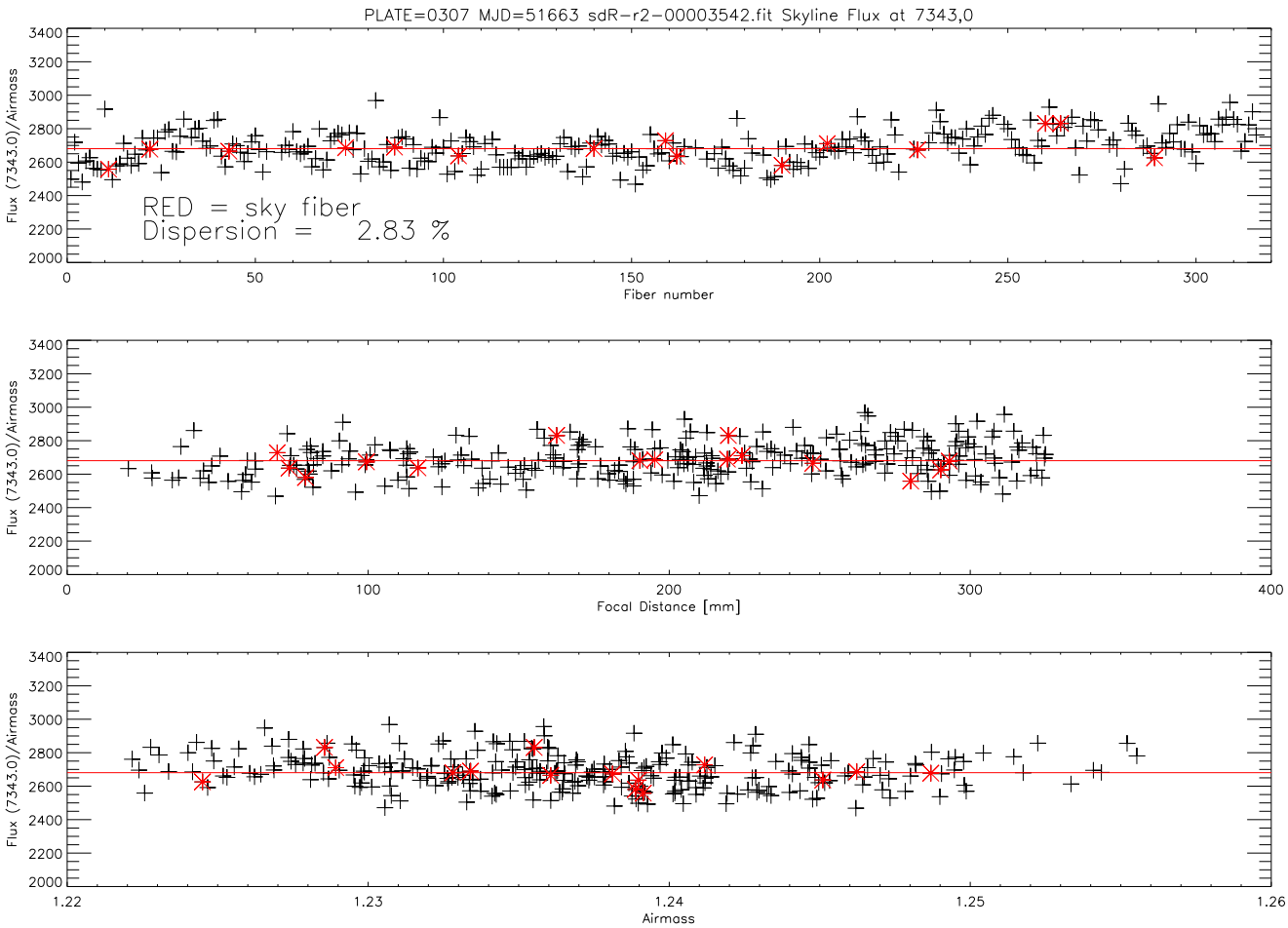

Number of sky fibers = 15
PLATE=0307 MJD=51663 sdR-r2-00003542.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

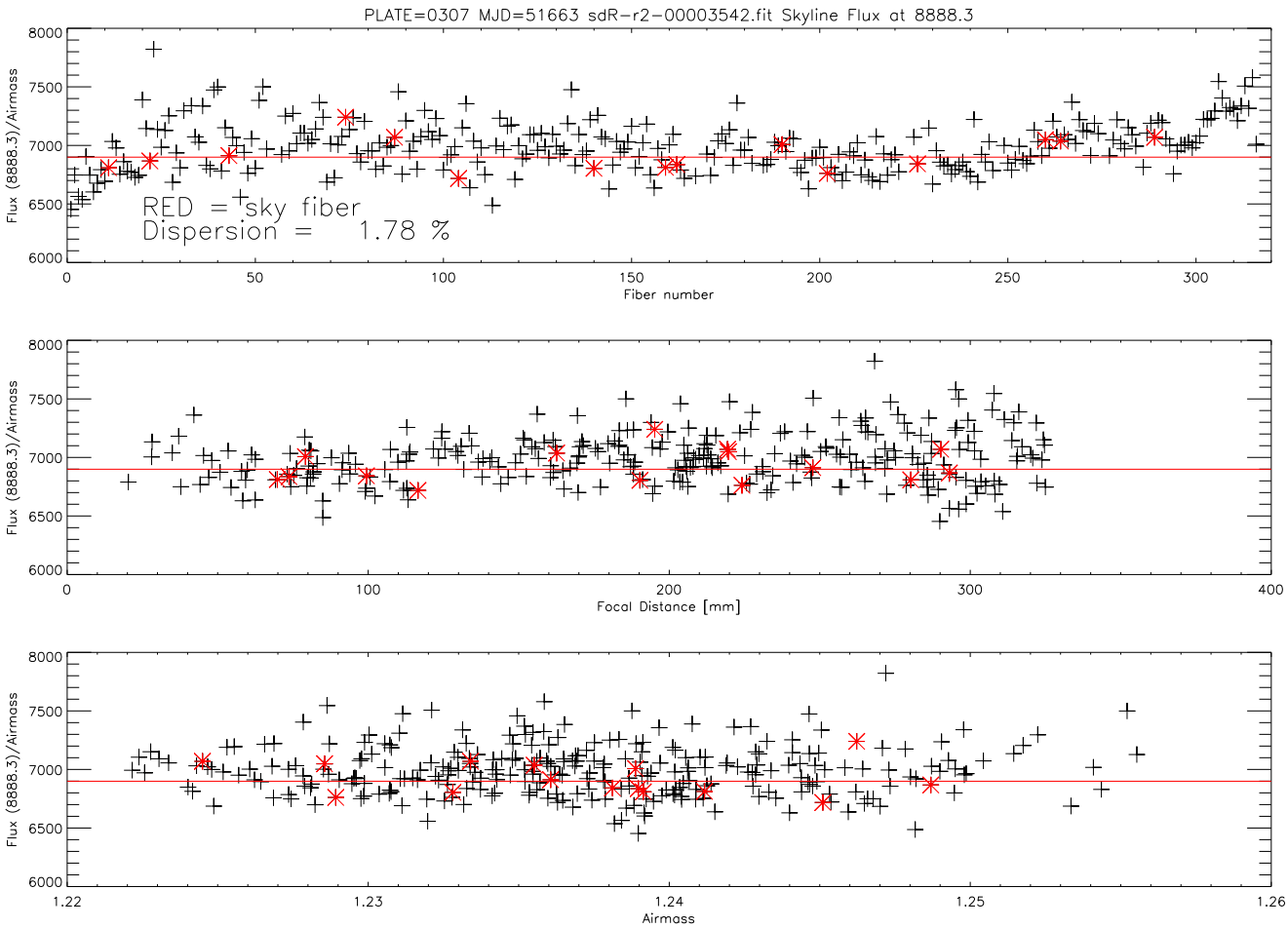

PLATE=0307 MJD=51663 sdR-r2-00003542.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

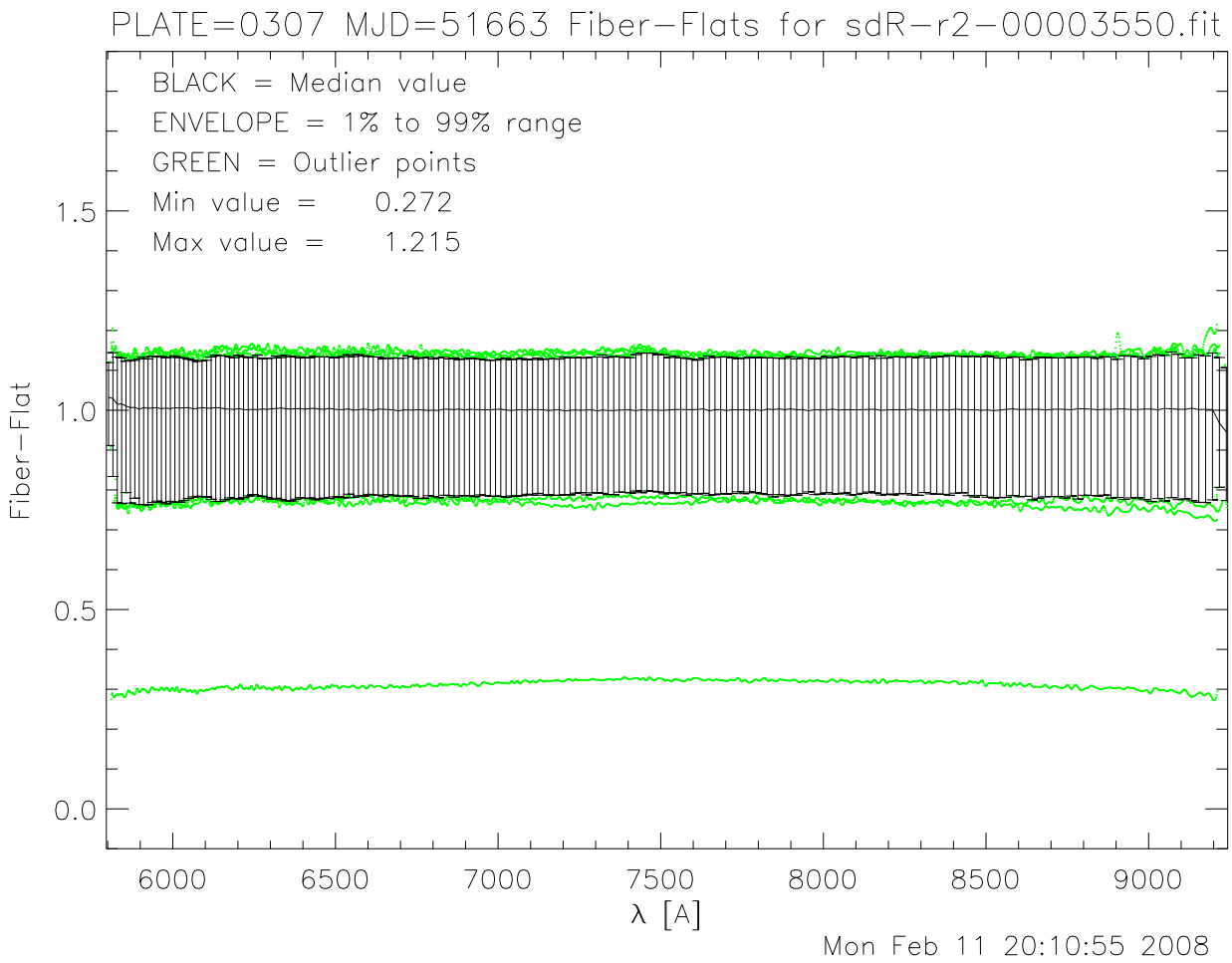

PLATE=0307 MJD=51663 sdR-r2-00003542.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

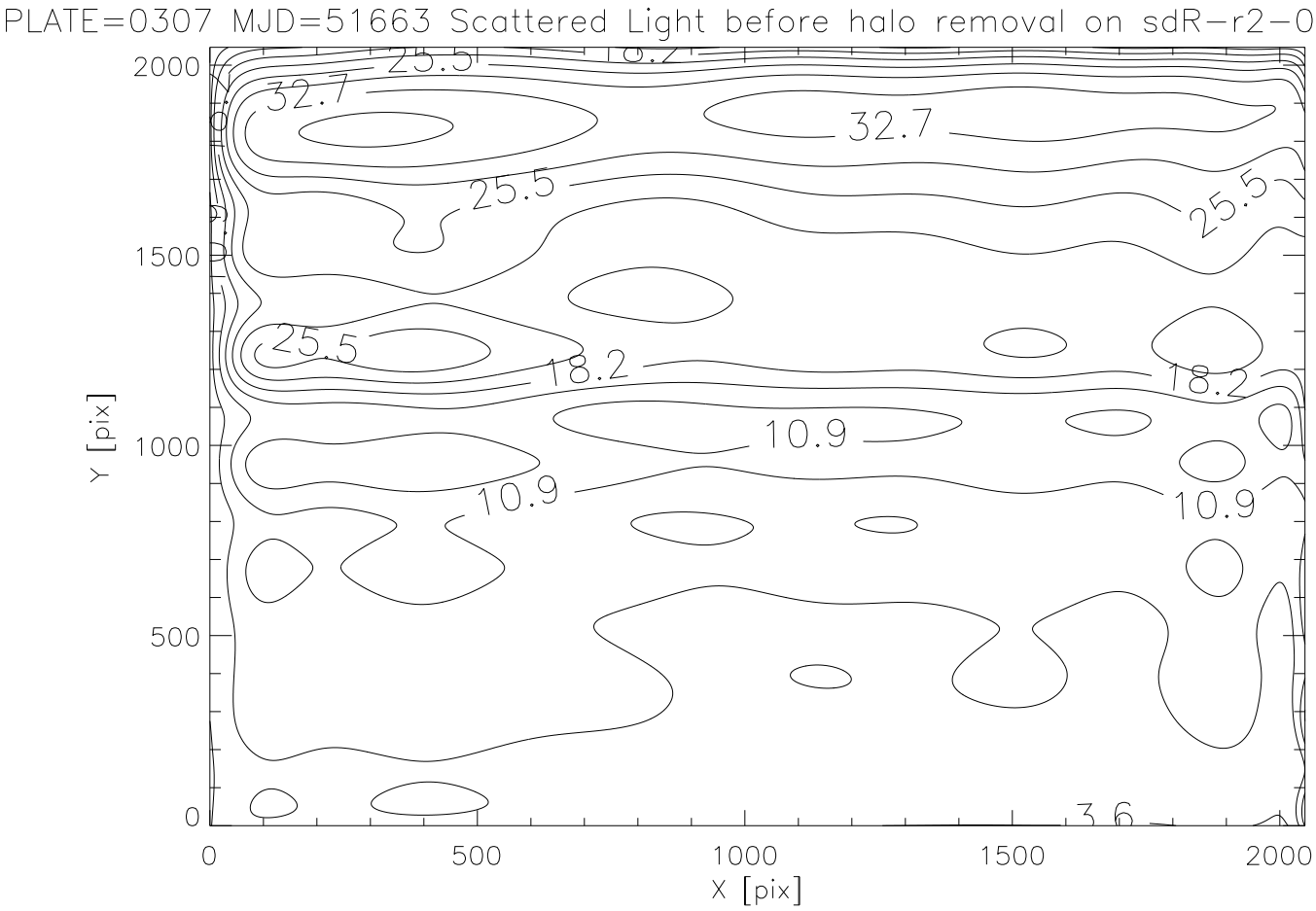

PLATE=0307 MJD=51663 sdR-r2-00003542.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

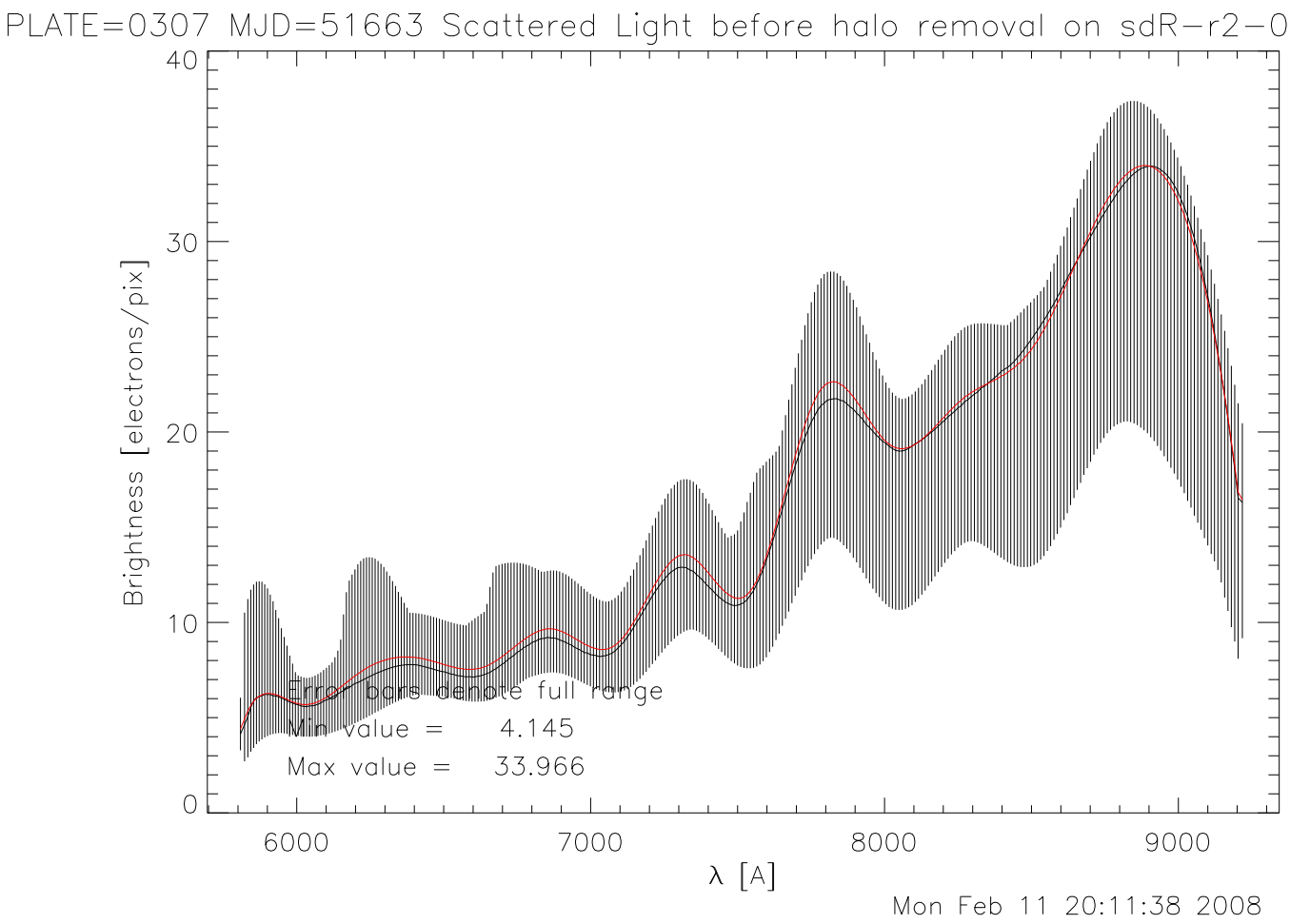

Number of sky fibers = 15
PLATE=0307 MJD=51663 sdR-r2-00003542.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

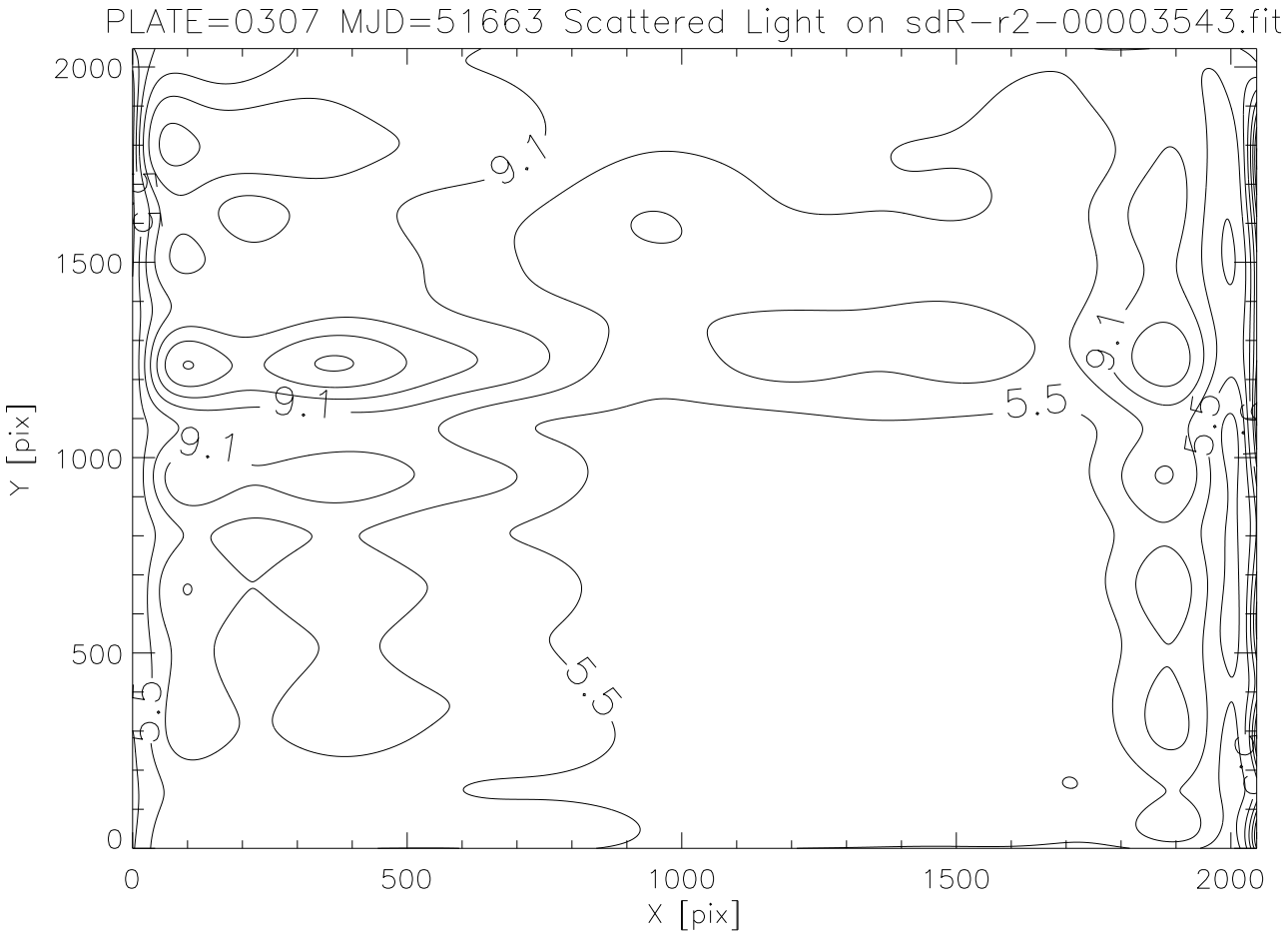

PLATE=0307 MJD=51663 sdR-r2-00003542.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.83 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

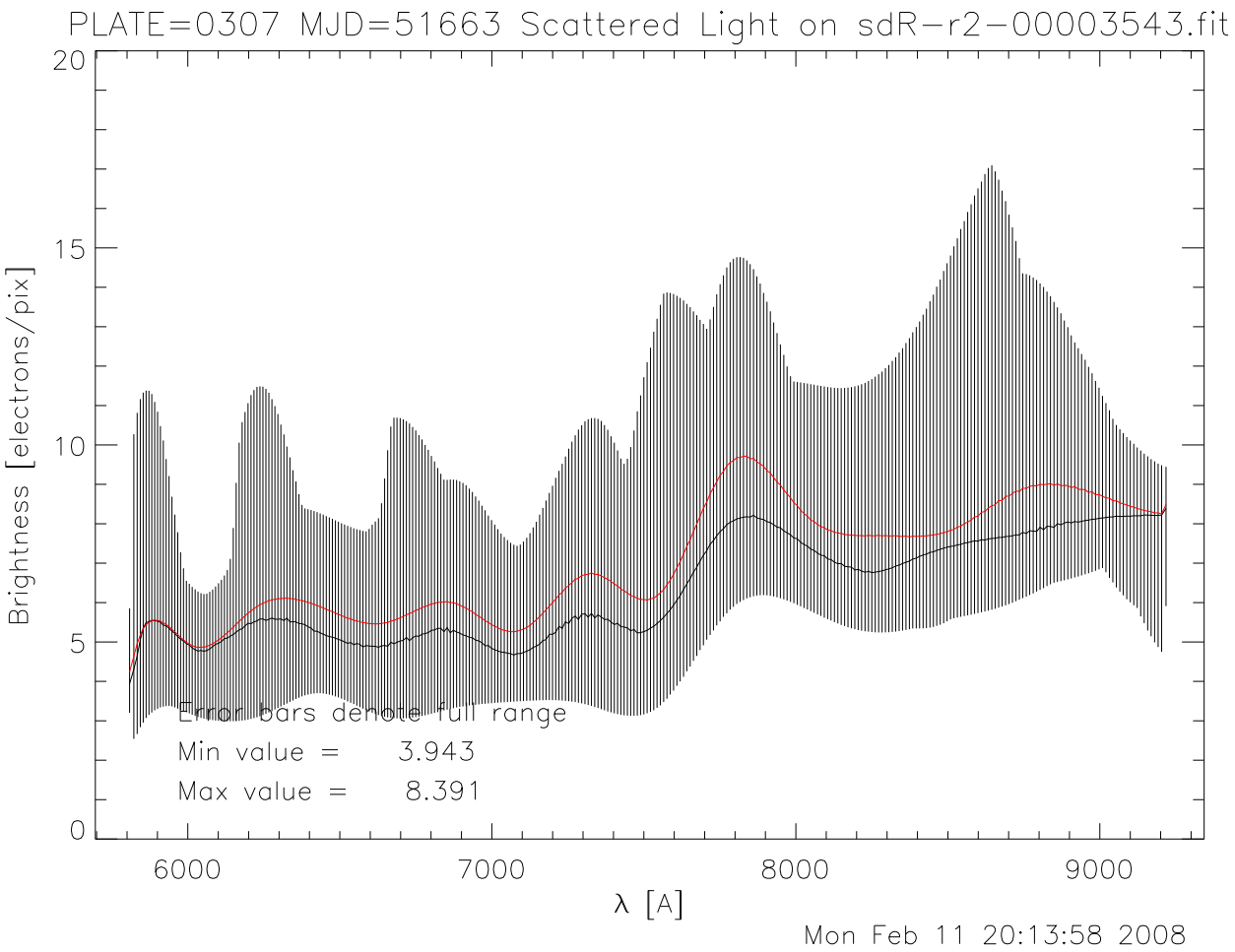

PLATE=0307 MJD=51663 sdR-r2-00003542.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.78 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

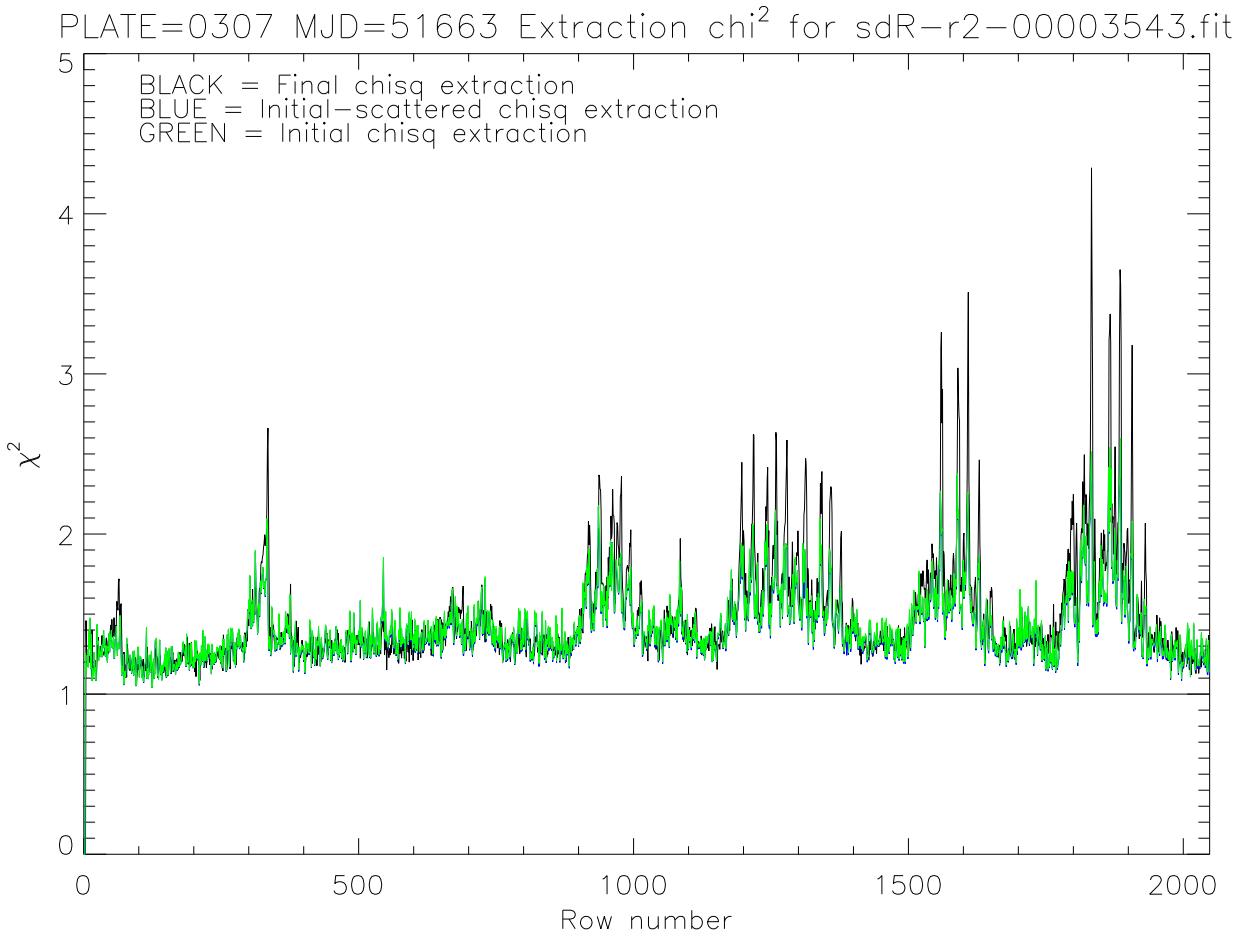

PLATE=0307 MJD=51663 Fiber-Flats for sdR-r2-00003550.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.272
Max value = 1.215
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 11 20:10:55 2008

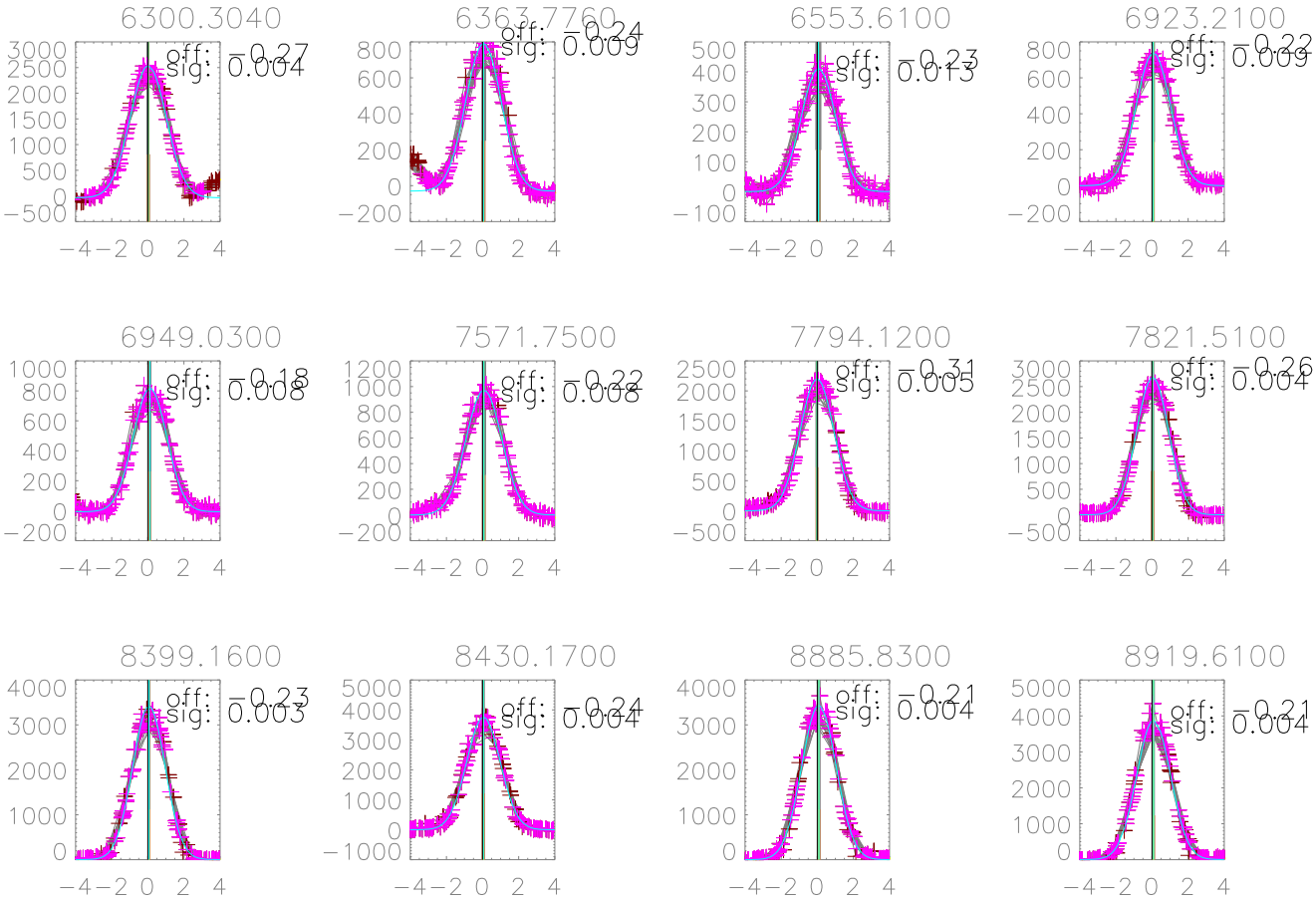

PLATE=0307 MJD=51663 Scattered Light before halo removal on sdR-r2-00003543.fi
32.7
25.5
18.2
10.9
3.6
Y [pix]
X [pix]
0
500
1000
1500
2000

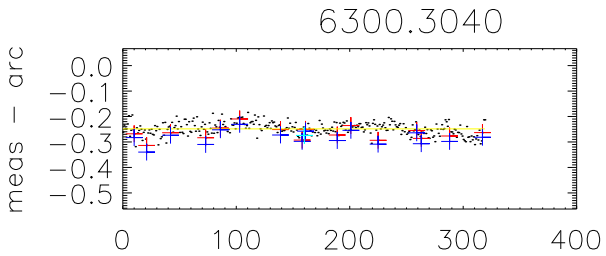

PLATE=0307 MJD=51663 Scattered Light before halo removal on sdR-r2-00003543.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.145
Max value = 33.966
Mon Feb 11 20:11:38 2008

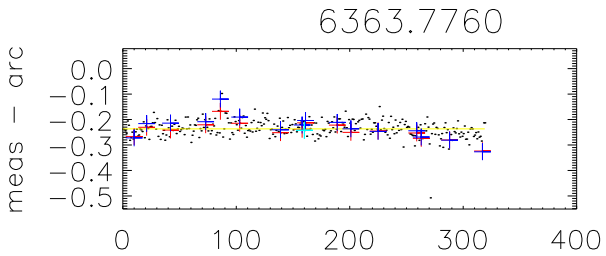

PLATE=0307 MJD=51663 Scattered Light on sdR-r2-00003543.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
9.1
5.5

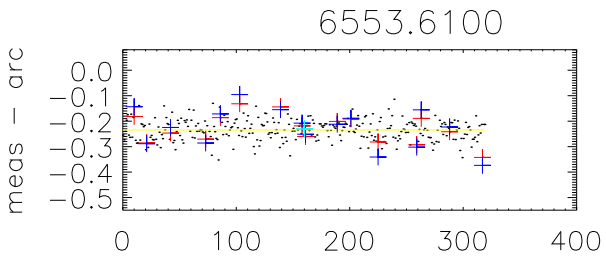

PLATE=0307 MJD=51663 Scattered Light on sdR-r2-00003543.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.943
Max value = 8.391
Mon Feb 11 20:13:58 2008

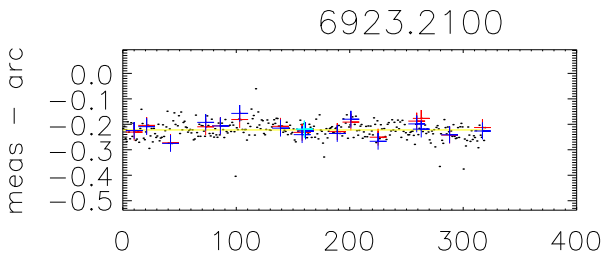

PLATE=0307 MJD=51663 Extraction chi^2 for sdR-r2-00003543.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

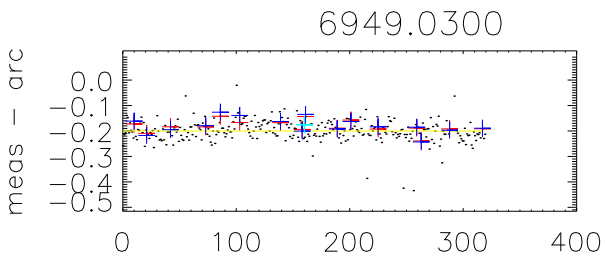

6300.3040
off: −0.27
sig: 0.004
6363.7760
off: −0.24
sig: 0.009
6553.6100
off: −0.23
sig: 0.013
6923.2100
off: −0.22
sig: 0.009
6949.0300
off: −0.18
sig: 0.008
7571.7500
off: −0.22
sig: 0.008
7794.1200
off: −0.31
sig: 0.005
7821.5100
off: −0.26
sig: 0.004
8399.1600
off: −0.23
sig: 0.003
8430.1700
off: −0.24
sig: 0.004
8885.8300
off: −0.21
sig: 0.004
8919.6100
off: −0.21
sig: 0.004

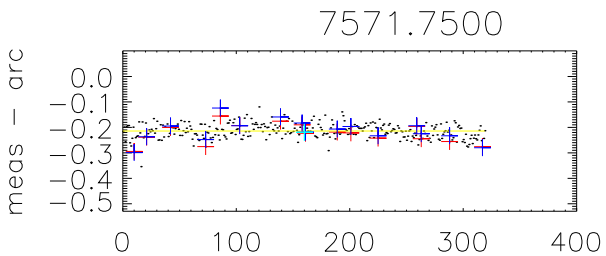

6300.3040
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

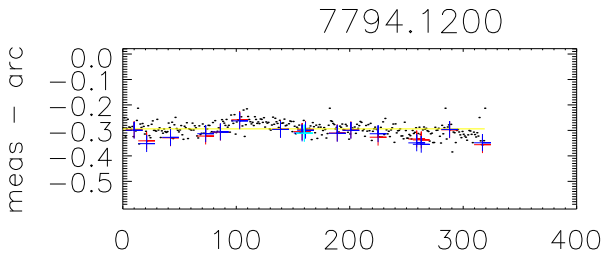

6363.7760
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

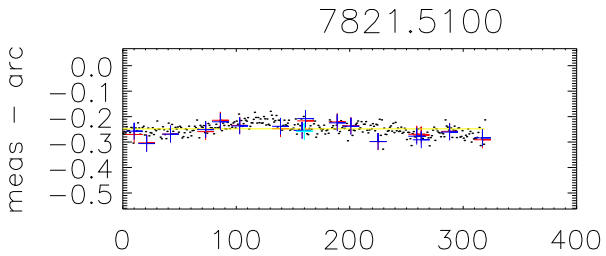

6553.6100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

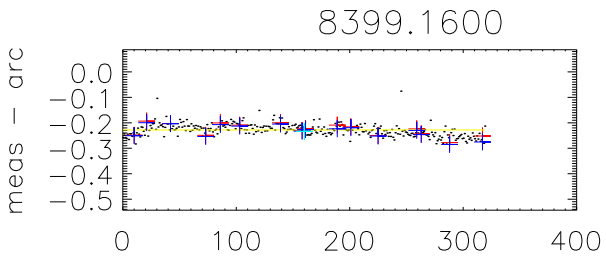

6923.2100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

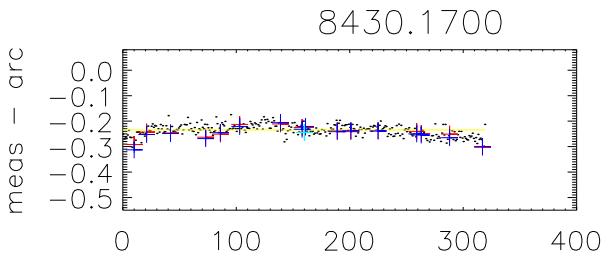

6949.0300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

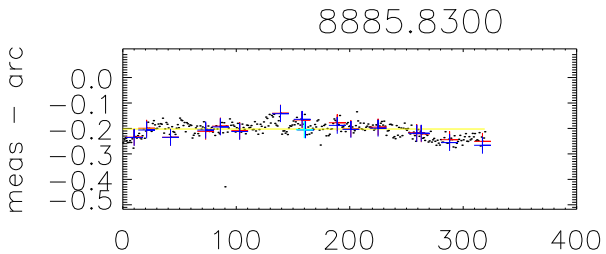

7571.7500
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

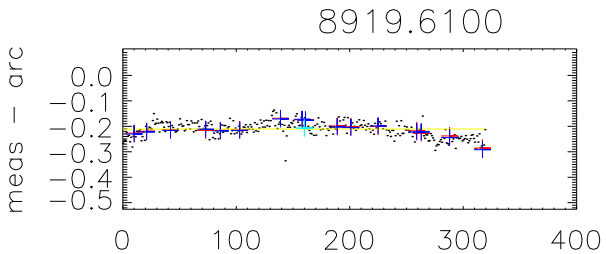

7794.1200
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

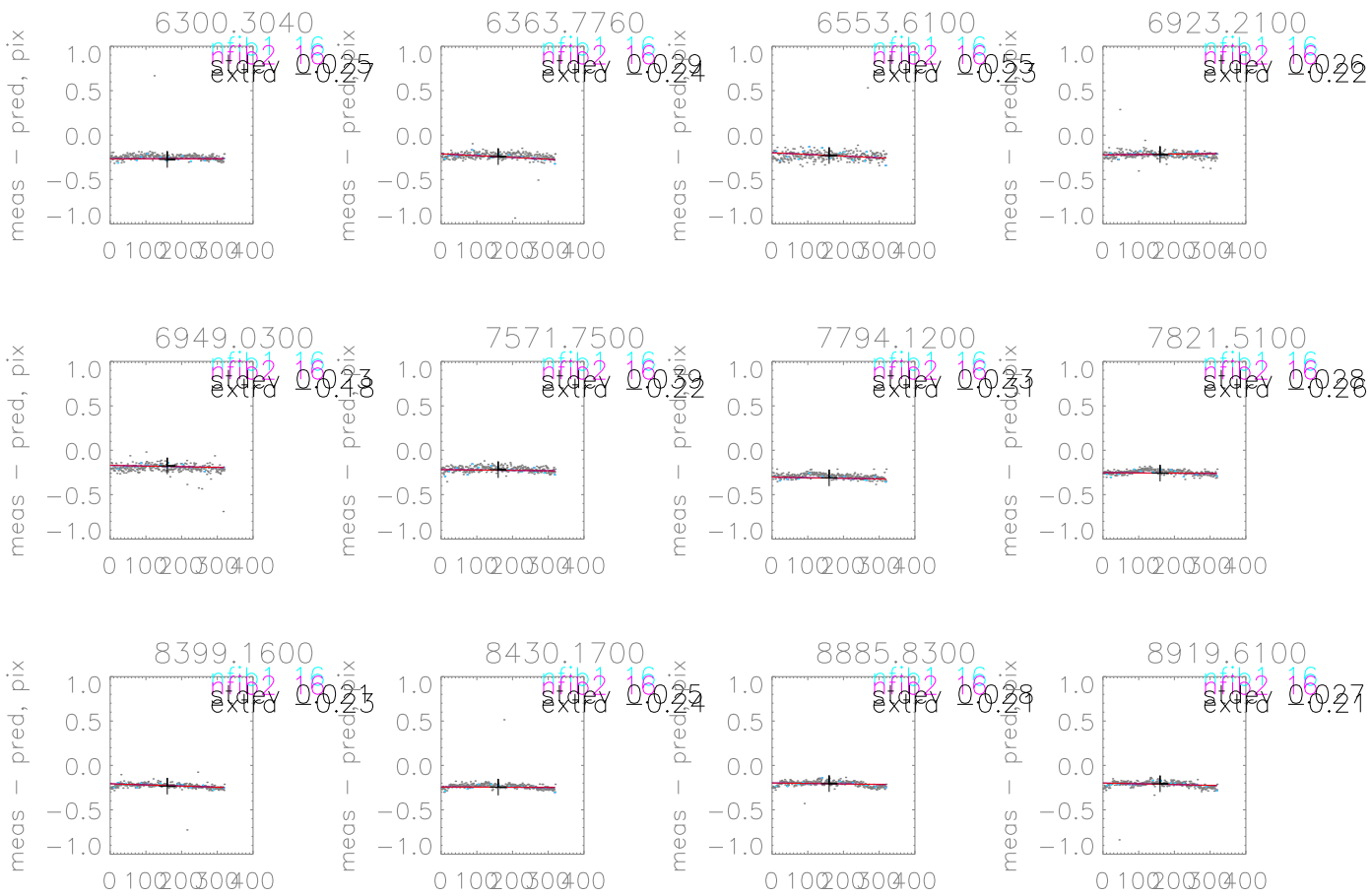

7821.5100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

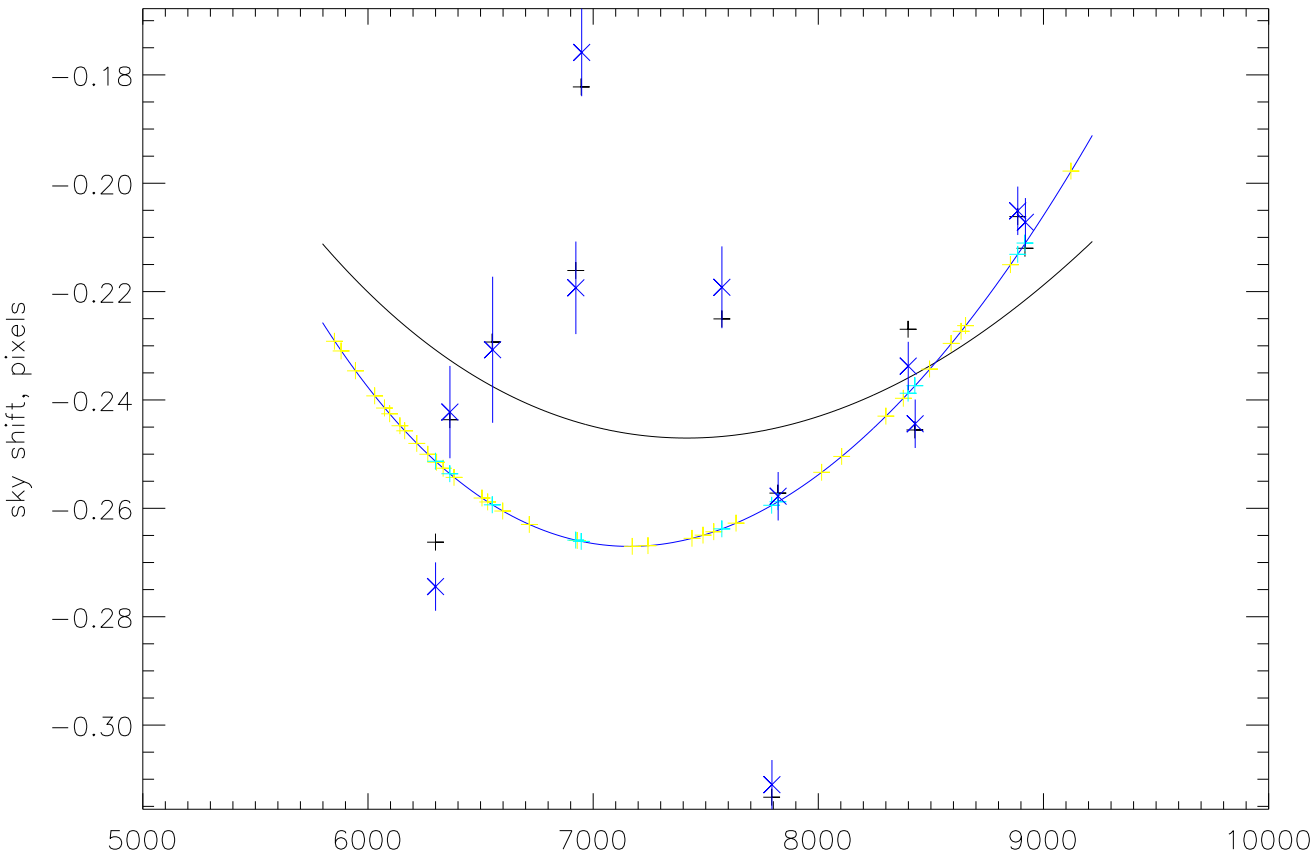

8399.1600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

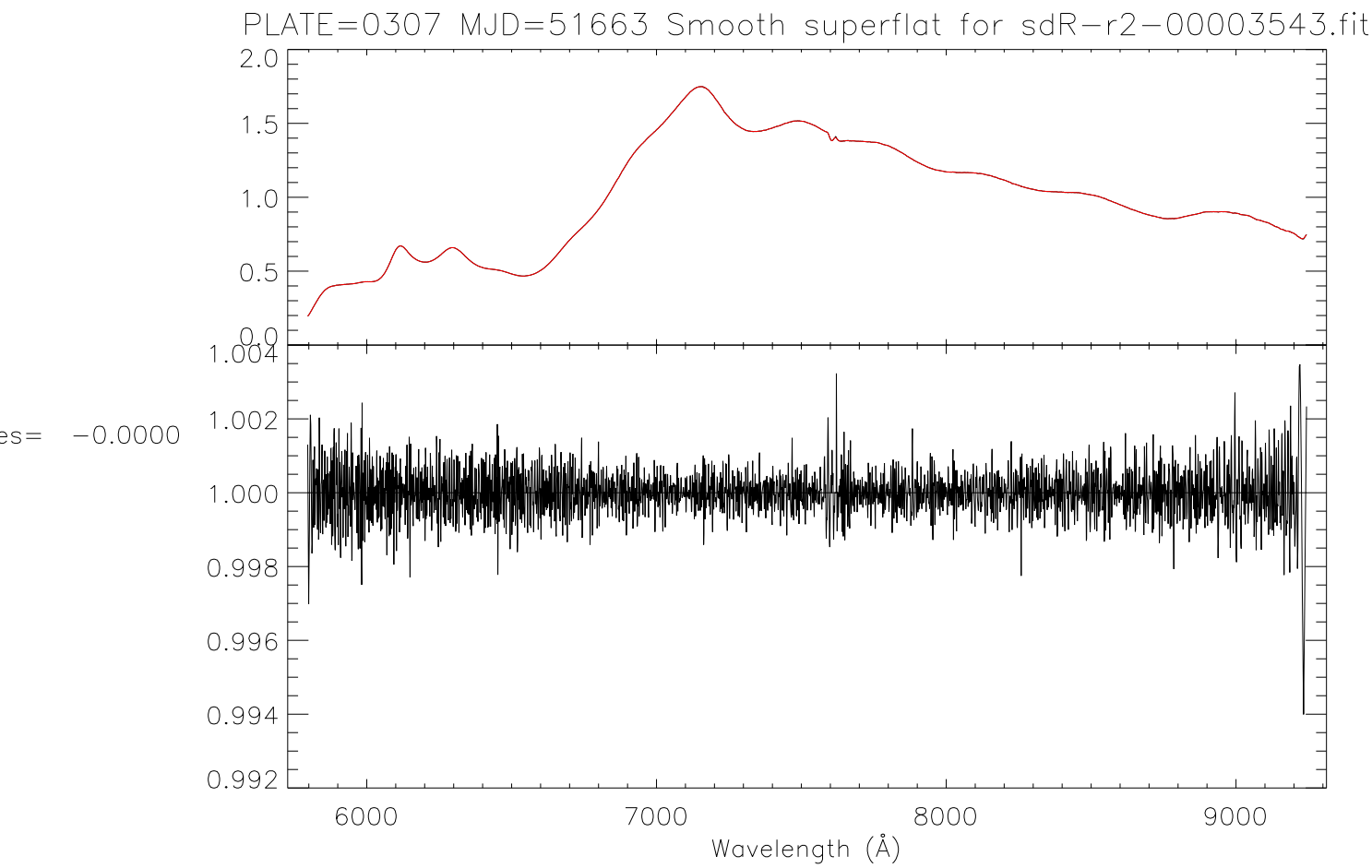

8430.1700
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400


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

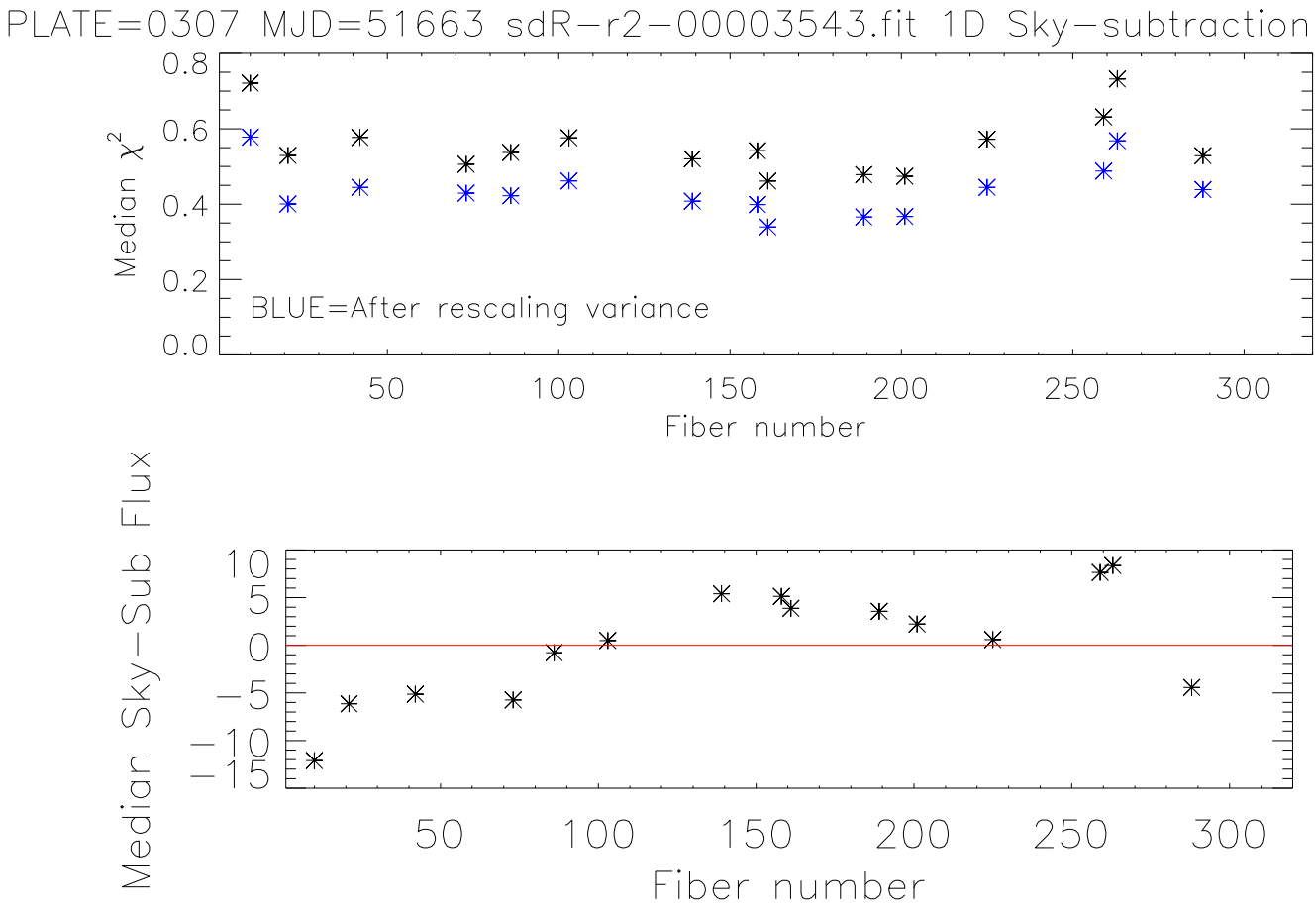

8919.6100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

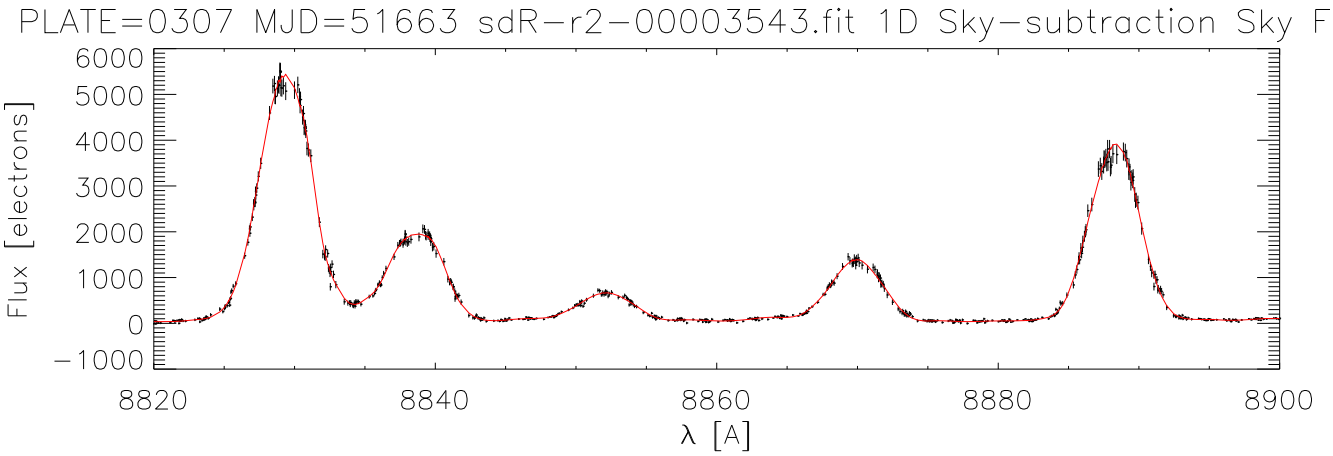

6300.3040
stdev 0.25
extra 0.27
6363.7760
stdev 0.29
extra 0.24
6553.6100
stdev 0.25
extra 0.23
6923.2100
stdev 0.26
extra 0.22
6949.0300
stdev 0.23
extra 0.48
7571.7500
stdev 0.39
extra 0.22
7794.1200
stdev 0.23
extra 0.31
7821.5100
stdev 0.28
extra 0.26
8399.1600
stdev 0.21
extra 0.23
8430.1700
stdev 0.25
extra 0.24
8885.8300
stdev 0.28
extra 0.21
8919.6100
stdev 0.27
extra 0.21
meas − pred, pix
mfhd2 16

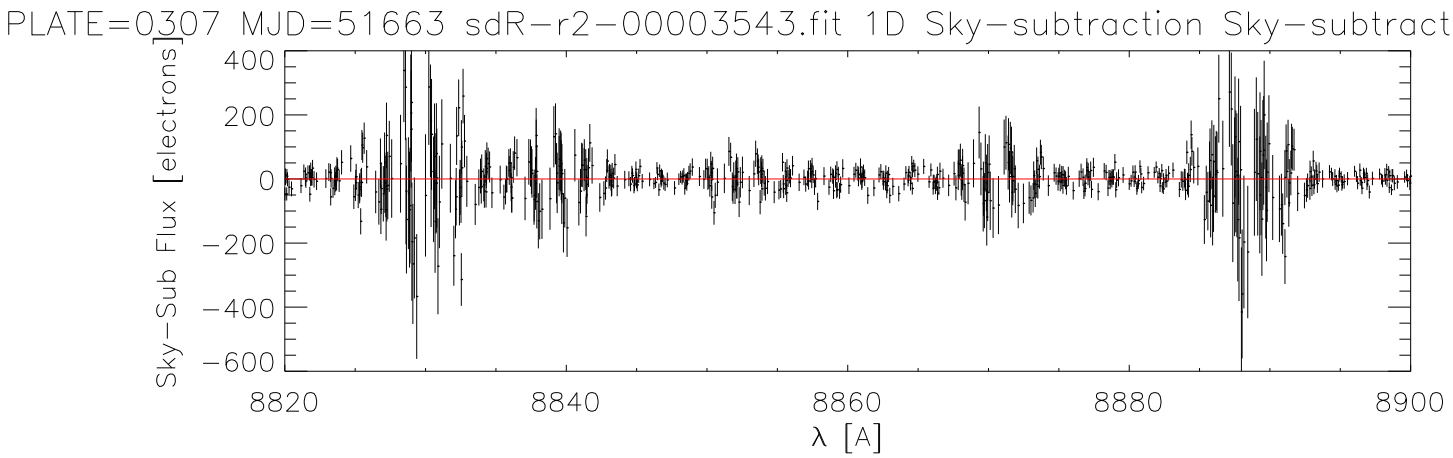

sky shift, pixels
−0.18
−0.20
−0.22
−0.24
−0.26
−0.28
−0.30
5000
6000
7000
8000
9000
10000

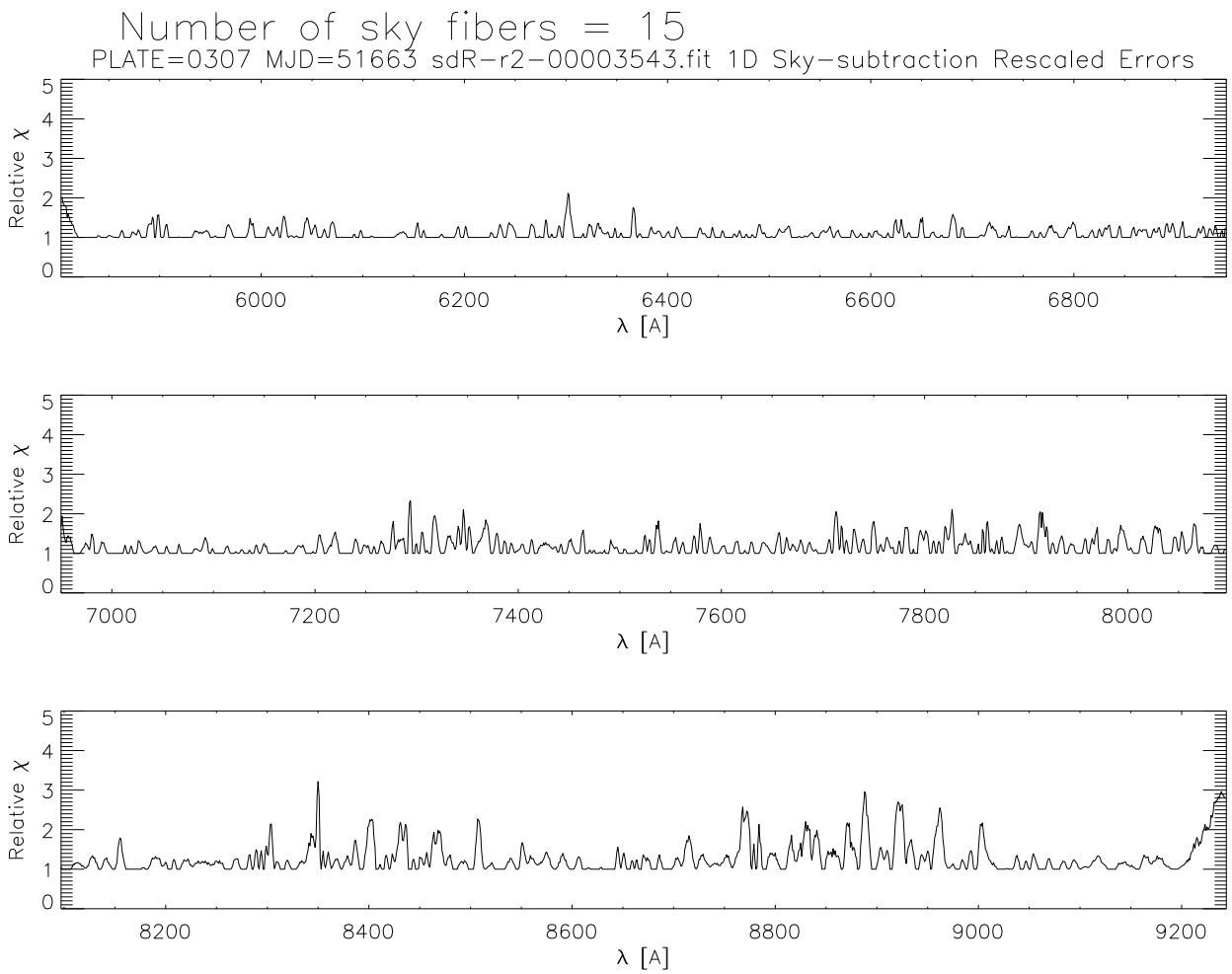

PLATE=0307 MJD=51663 Smooth superflat for sdR-r2-00003543.fit
2.0
1.5
1.0
0.5
0.0
1.004
1.002
1.000
0.998
0.996
0.994
0.992
6000
7000
8000
9000
Wavelength (Å)

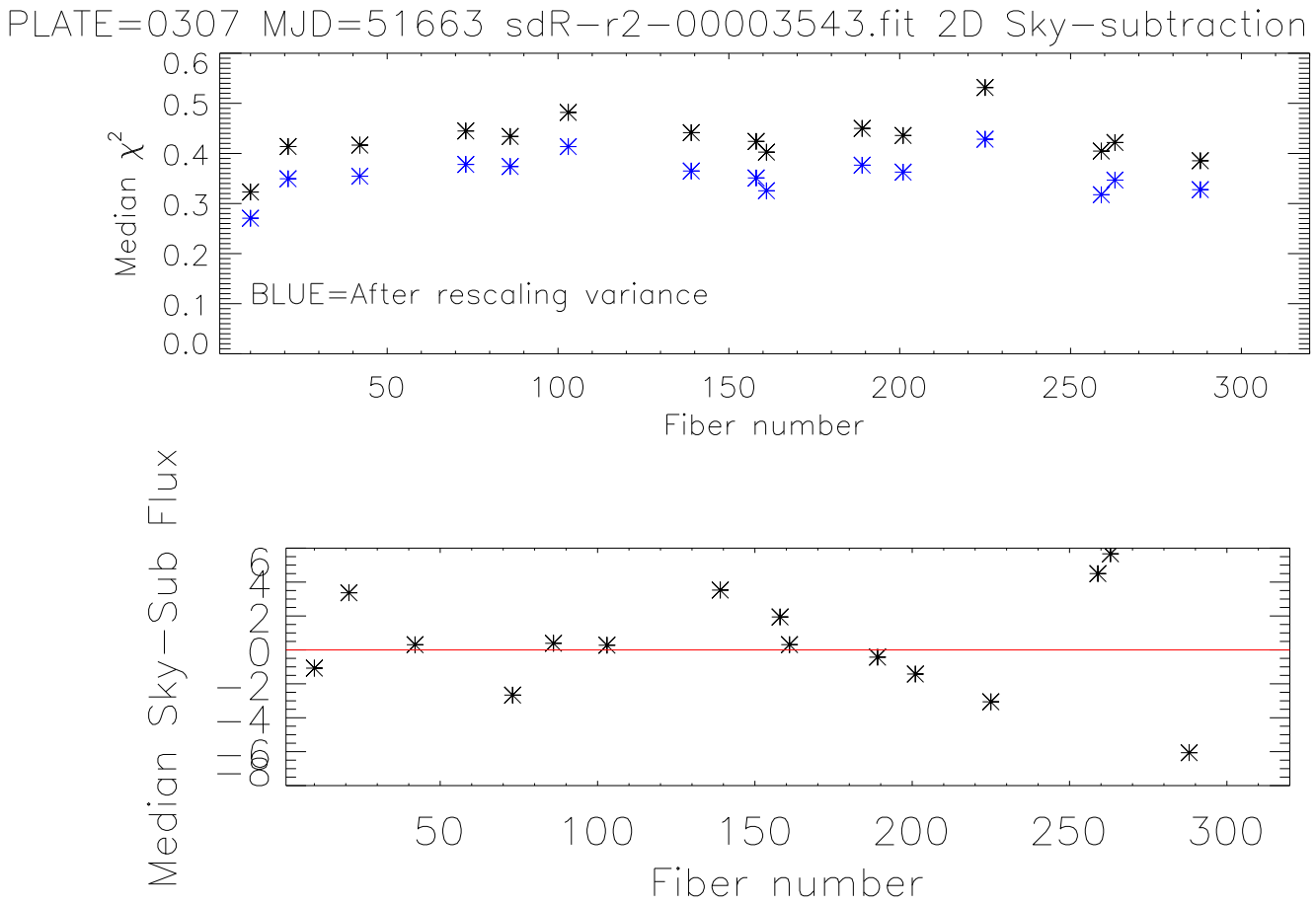
es= −0.0000

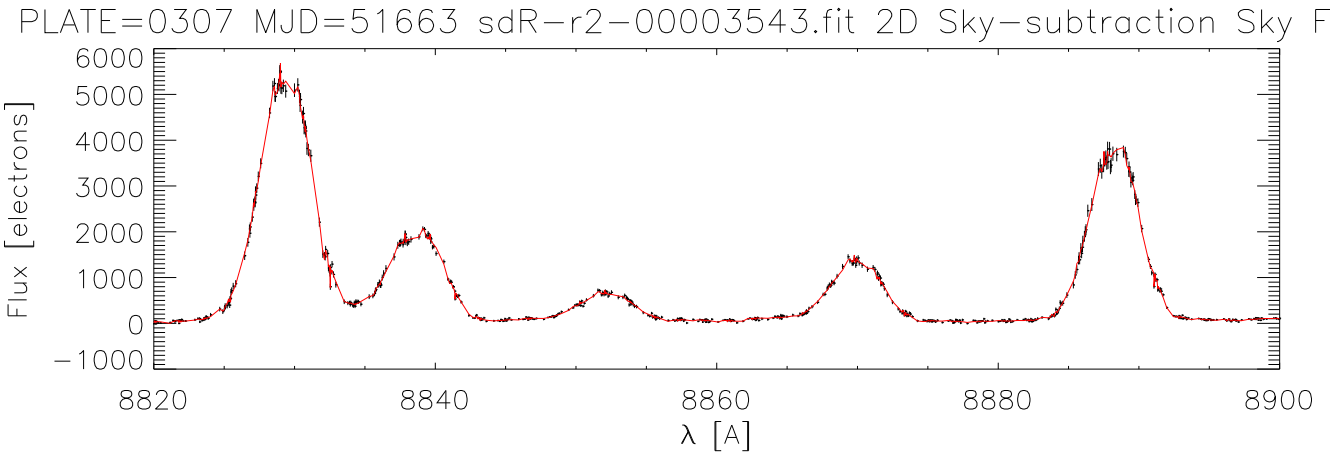

PLATE=0307 MJD=51663 sdR-r2-00003543.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

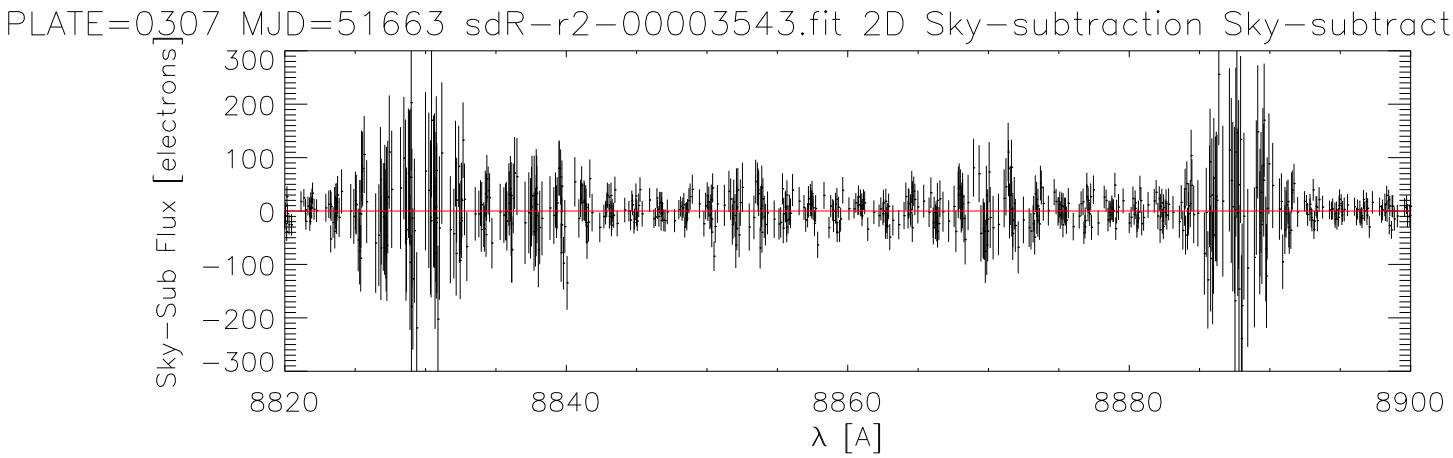

PLATE=0307 MJD=51663 sdR-r2-00003543.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

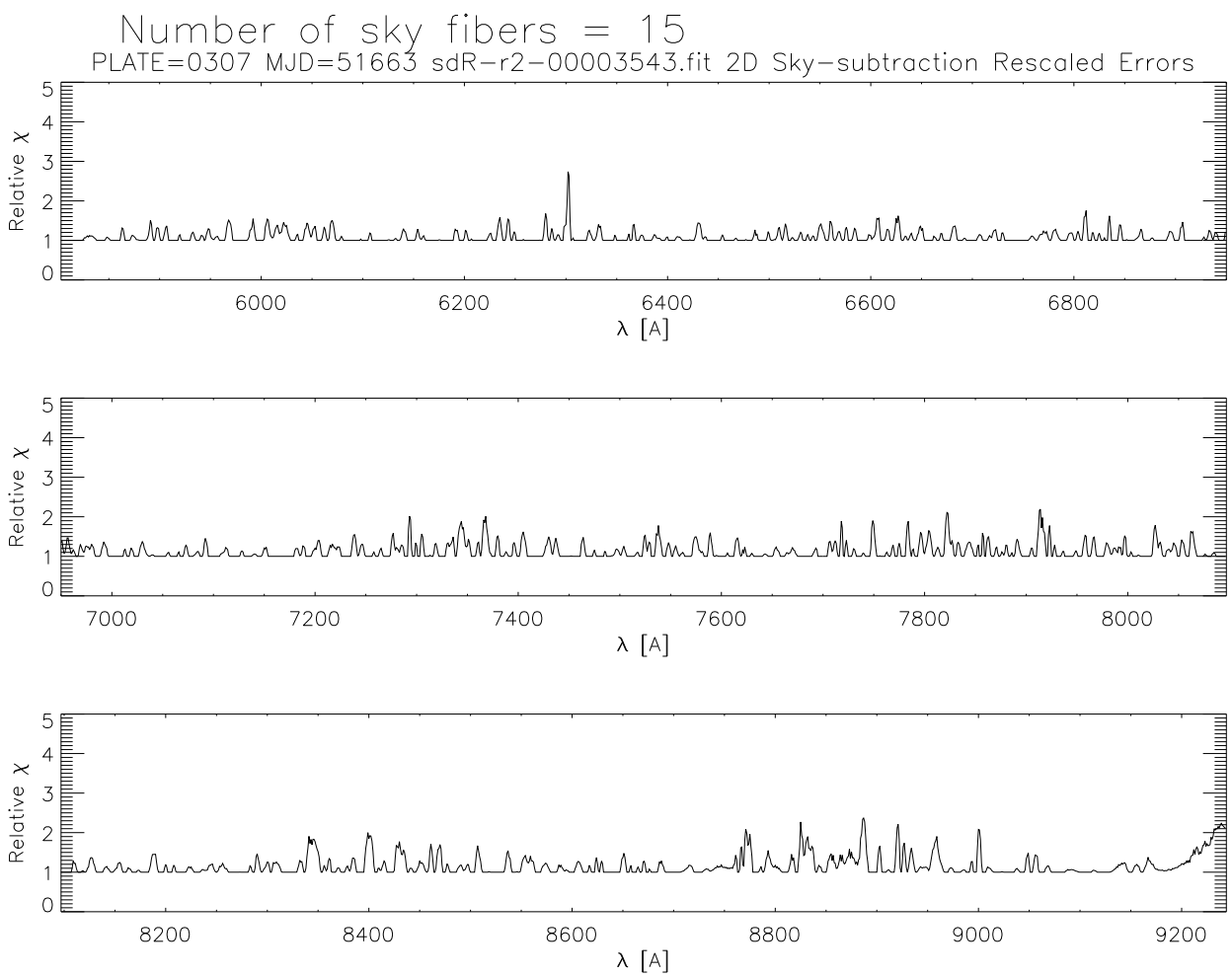

PLATE=0307 MJD=51663 sdR-r2-00003543.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
-600
8820
8840
8860
8880
8900
λ [A]

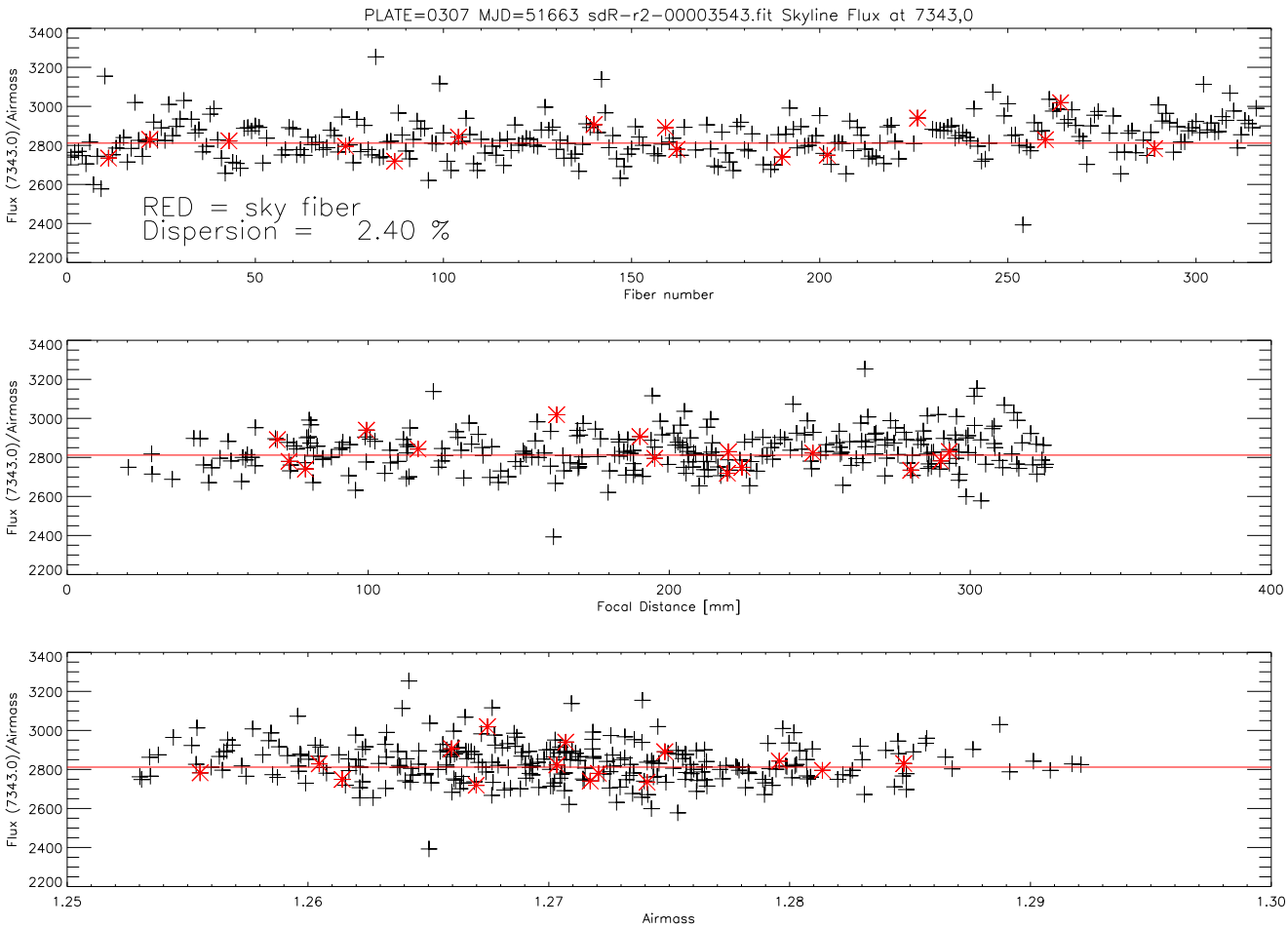

Number of sky fibers = 15
PLATE=0307 MJD=51663 sdR-r2-00003543.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

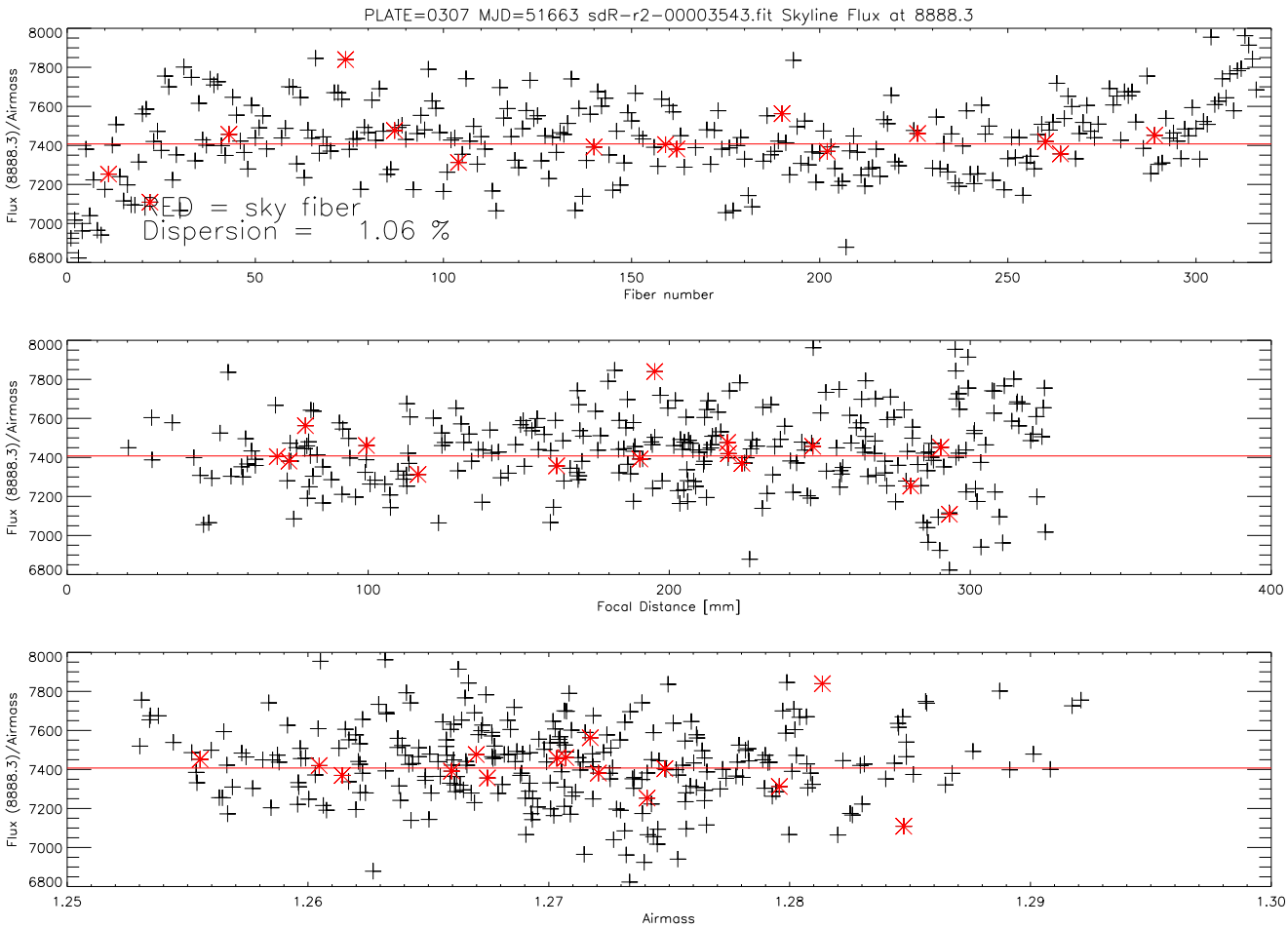

PLATE=0307 MJD=51663 sdR-r2-00003543.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

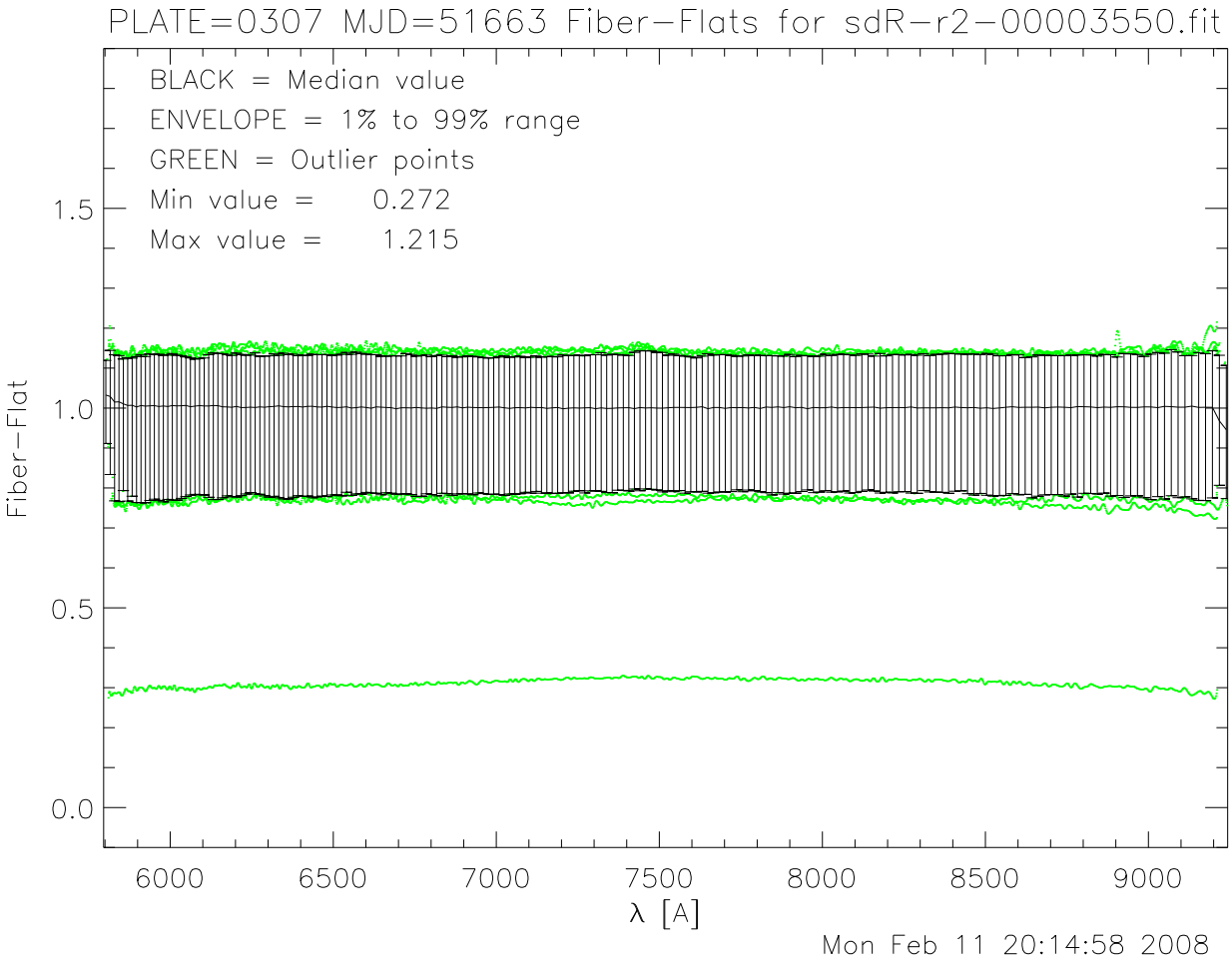

PLATE=0307 MJD=51663 sdR-r2-00003543.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

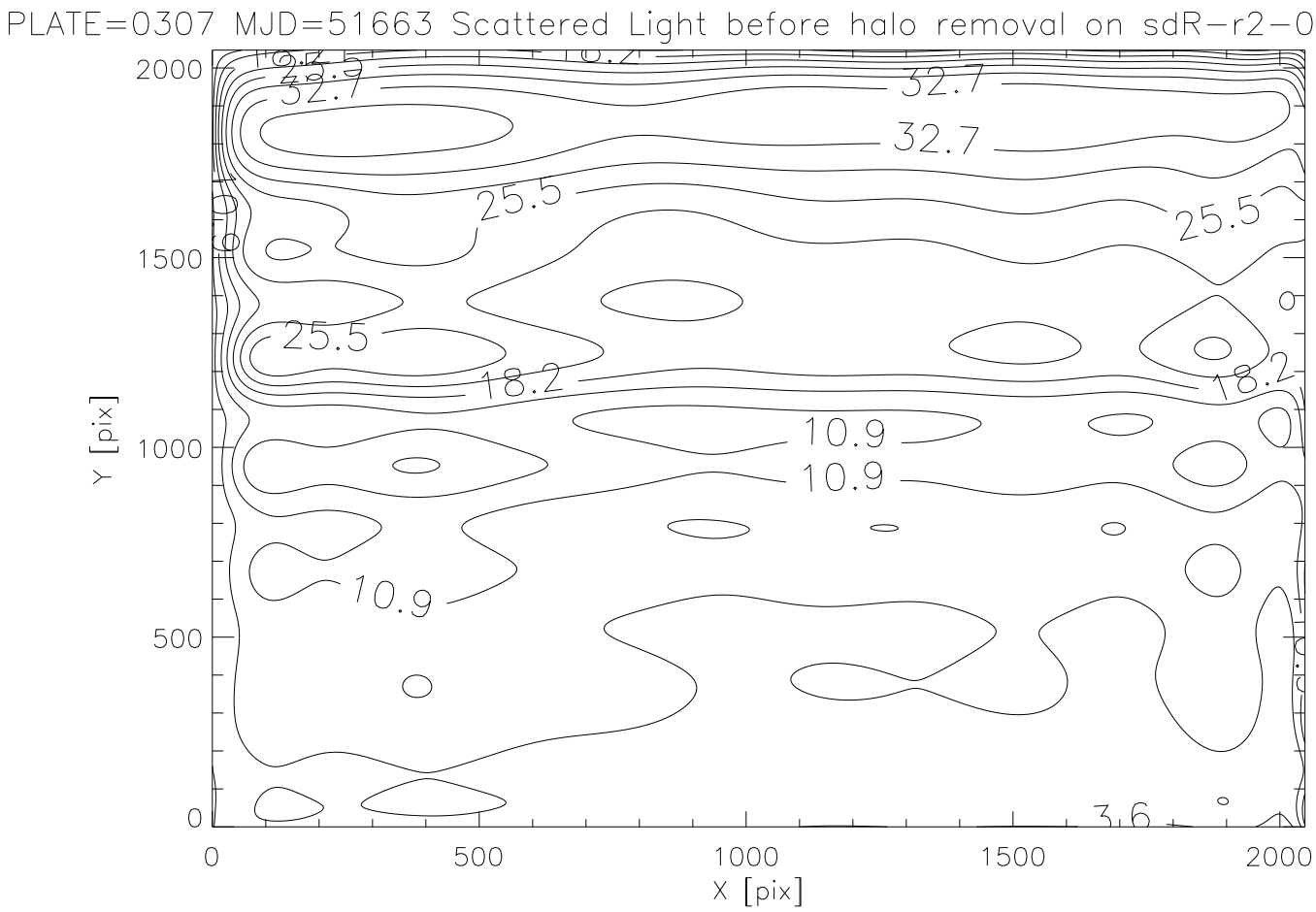

PLATE=0307 MJD=51663 sdR-r2-00003543.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

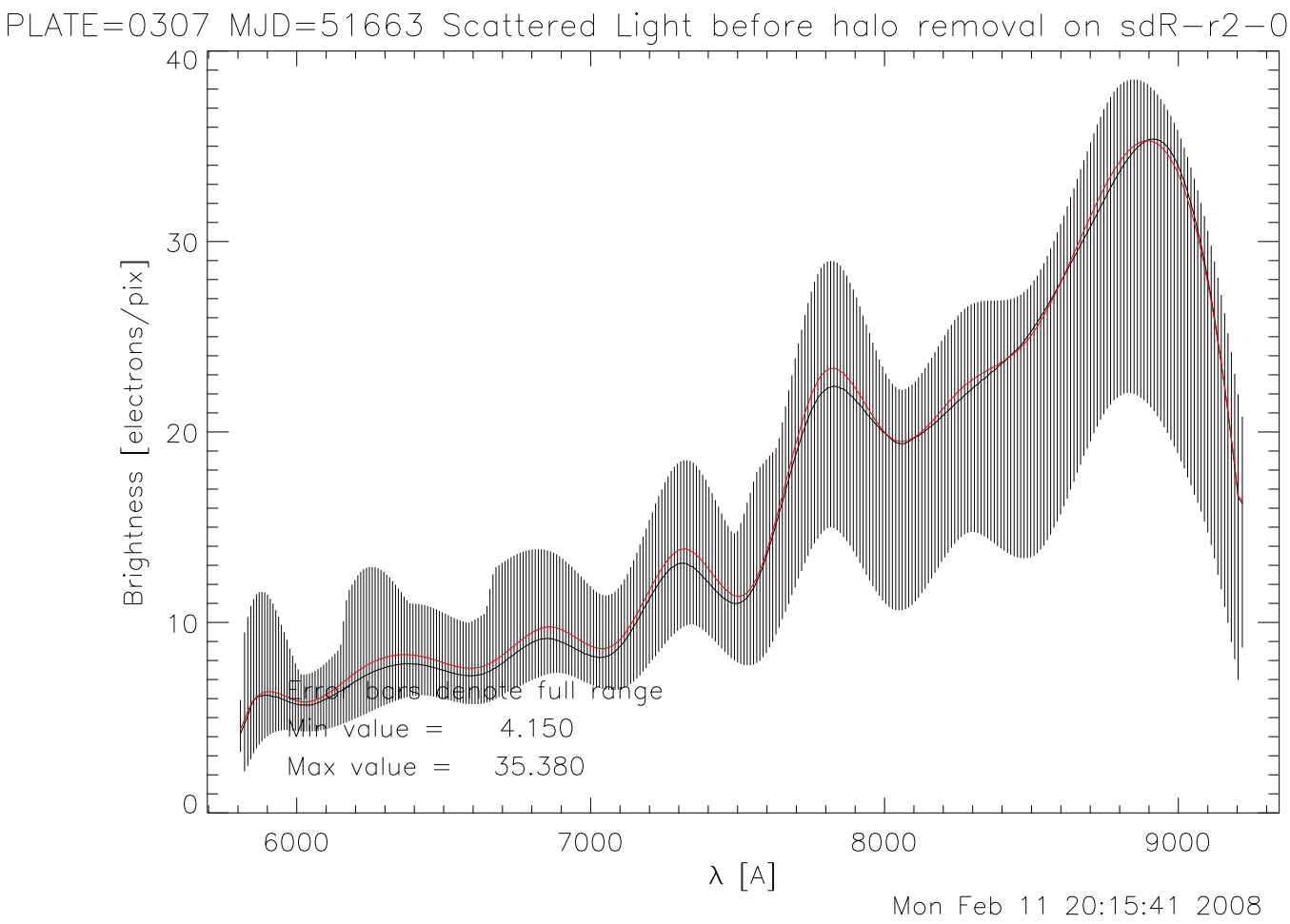

Number of sky fibers = 15
PLATE=0307 MJD=51663 sdR-r2-00003543.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

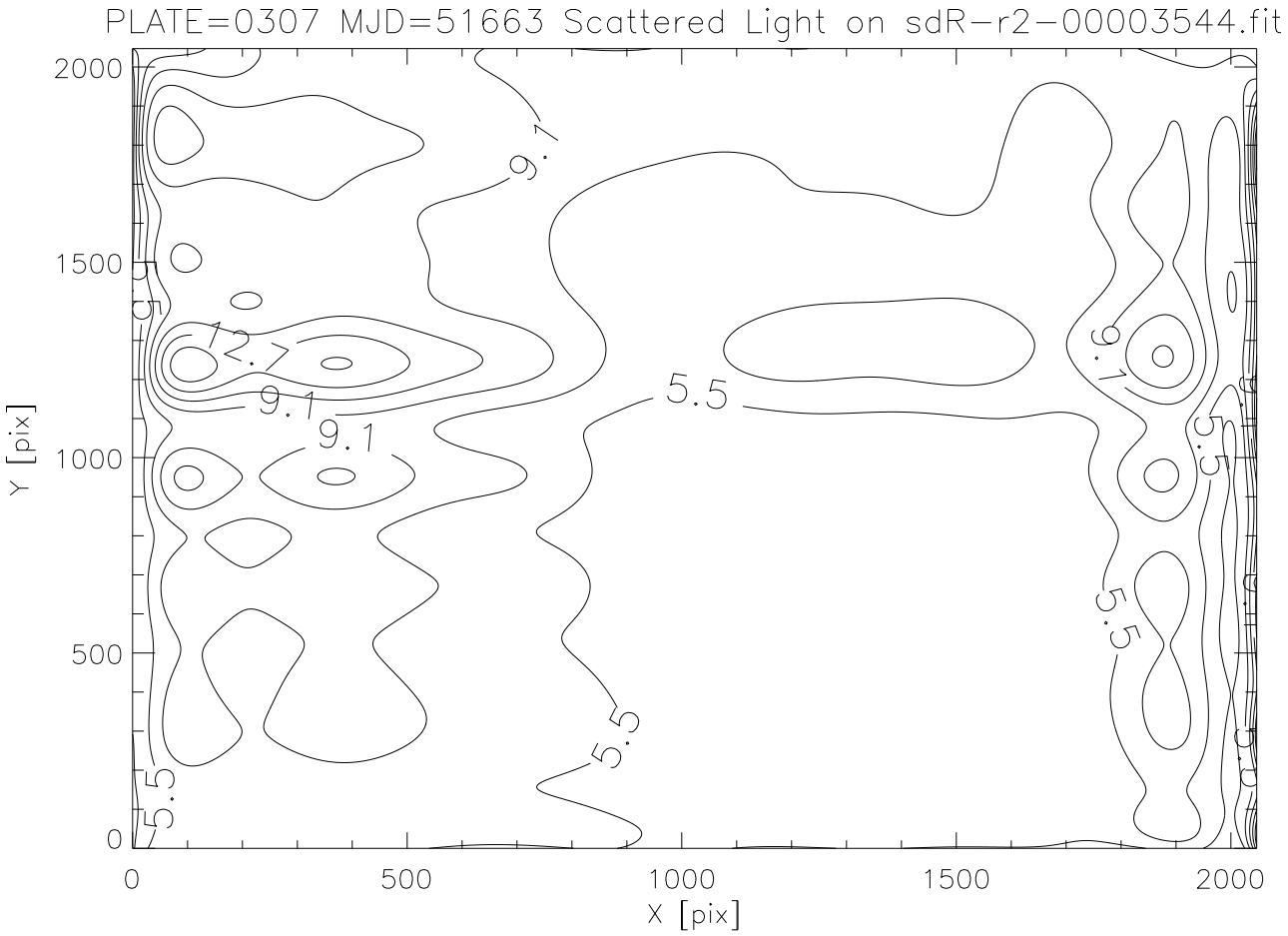

PLATE=0307 MJD=51663 sdR-r2-00003543.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.40 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

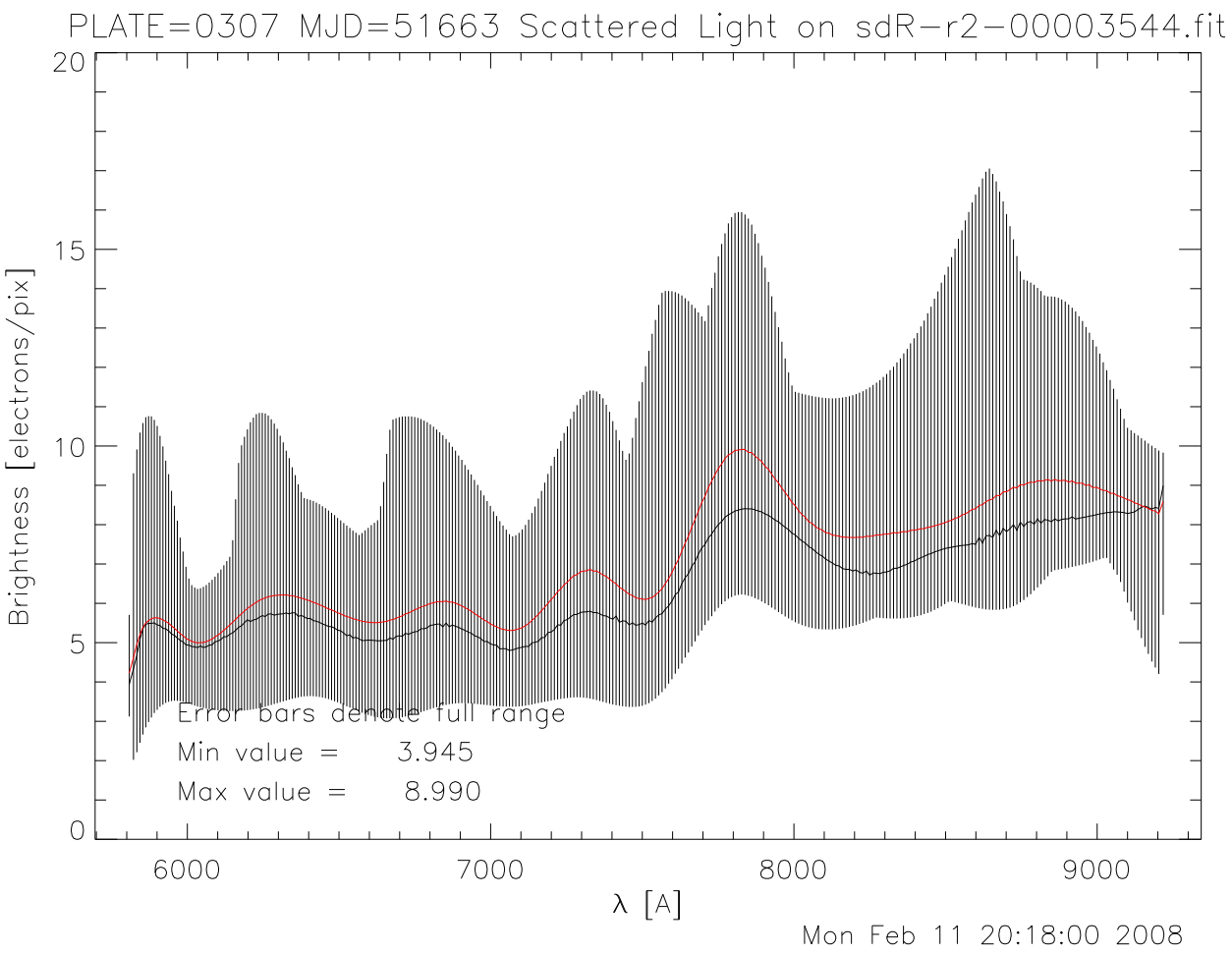

PLATE=0307 MJD=51663 sdR-r2-00003543.fit Skyline Flux at 8888.3
RED = sky fiber
Dispersion = 1.06 %
Flux (8888.3)/Airmass
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

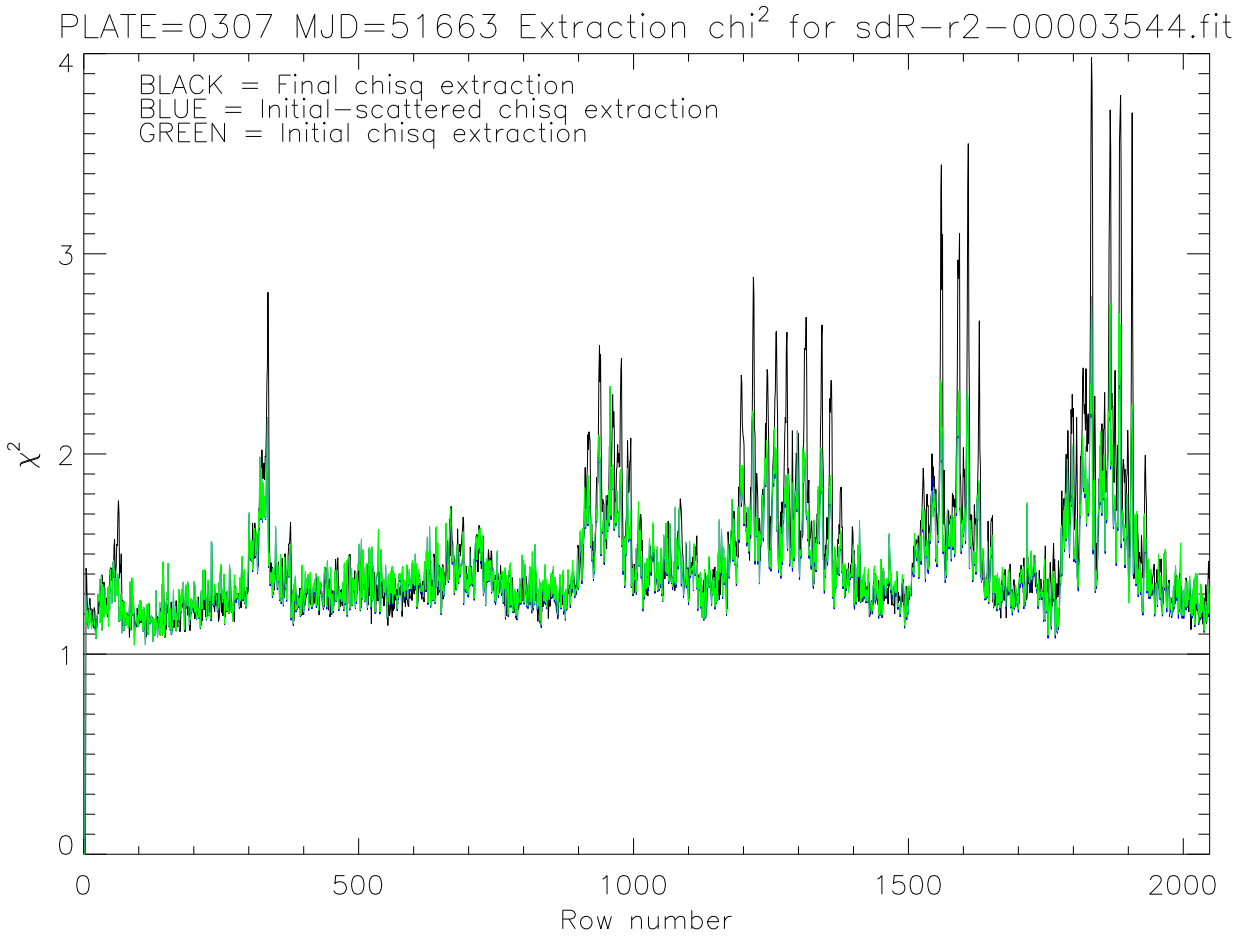

PLATE=0307 MJD=51663 Fiber-Flats for sdR-r2-00003550.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.272
Max value = 1.215
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 11 20:14:58 2008

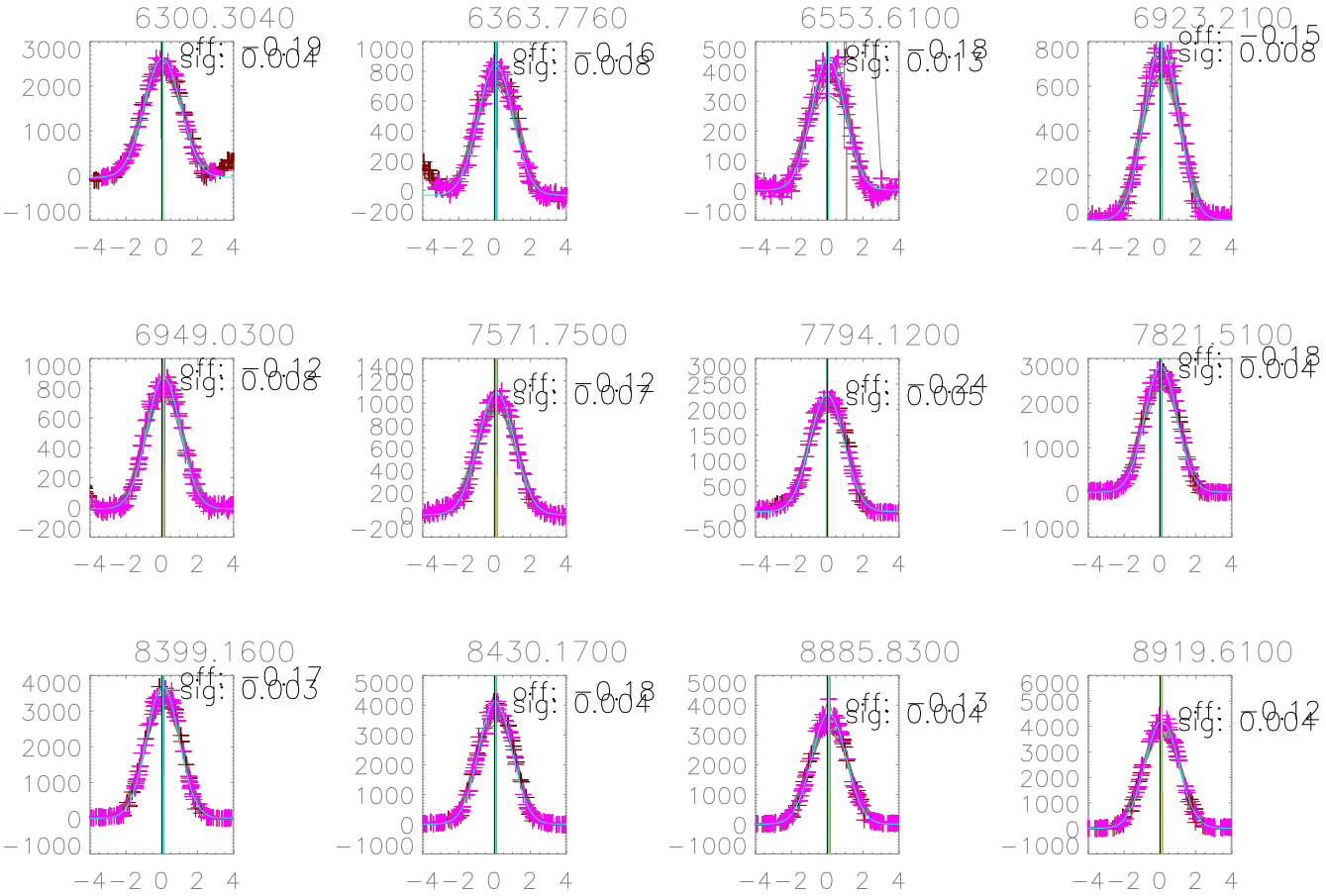

PLATE=0307 MJD=51663 Scattered Light before halo removal on sdR-r2-00003544.fi
32.7
25.5
18.2
10.9
3.6
Y [pix]
X [pix]
0
500
1000
1500
2000

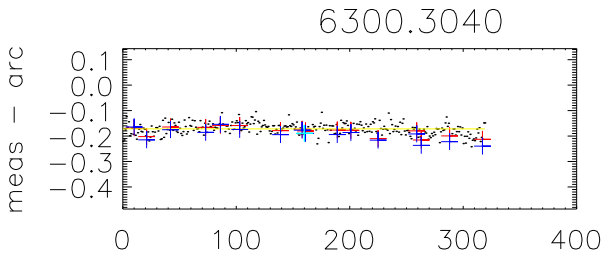

PLATE=0307 MJD=51663 Scattered Light before halo removal on sdR-r2-00003544.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.150
Max value = 35.380
Mon Feb 11 20:15:41 2008

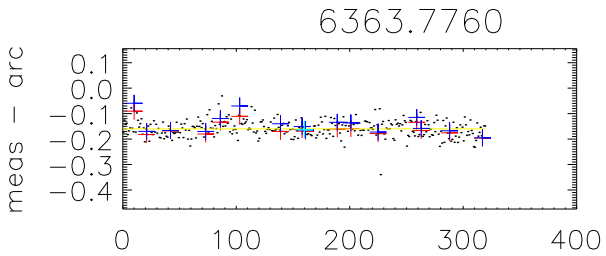

PLATE=0307 MJD=51663 Scattered Light on sdR-r2-00003544.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
12.7
9.7
9.1
5.5

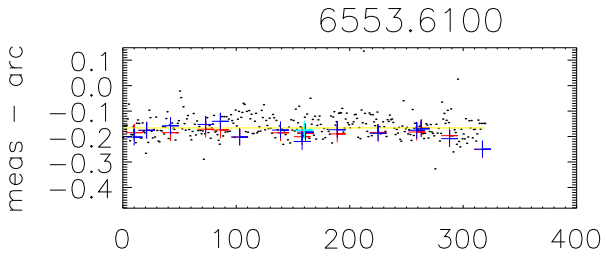

PLATE=0307 MJD=51663 Scattered Light on sdR-r2-00003544.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.945
Max value = 8.990
Mon Feb 11 20:18:00 2008

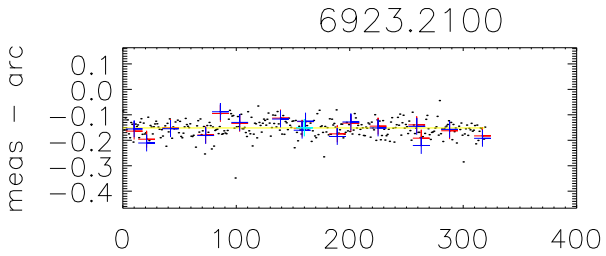

PLATE=0307 MJD=51663 Extraction chi^2 for sdR−r2−00003544.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

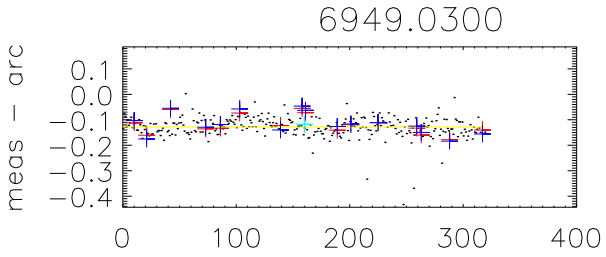

6300.3040
off: −0.19
sig: 0.004
6363.7760
off: −0.16
sig: 0.008
6553.6100
off: −0.18
sig: 0.013
6923.2100
off: −0.15
sig: 0.008
6949.0300
off: −0.12
sig: 0.008
7571.7500
off: −0.12
sig: 0.007
7794.1200
off: −0.24
sig: 0.005
7821.5100
off: −0.18
sig: 0.004
8399.1600
off: −0.17
sig: 0.003
8430.1700
off: −0.18
sig: 0.004
8885.8300
off: −0.13
sig: 0.004
8919.6100
off: −0.12
sig: 0.004

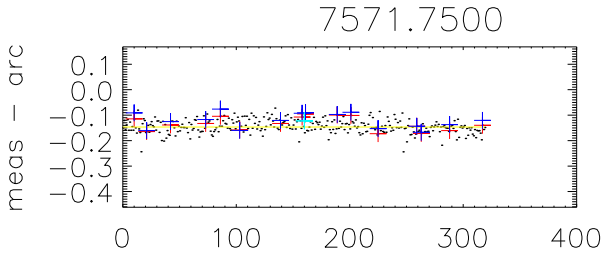

6300.3040
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

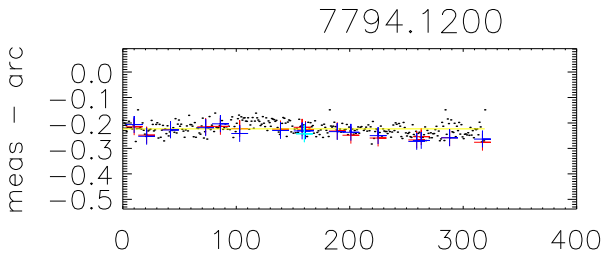

6363.7760
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

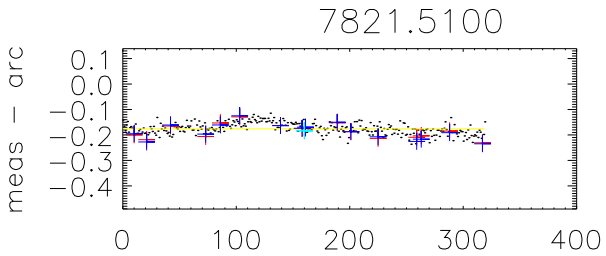

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

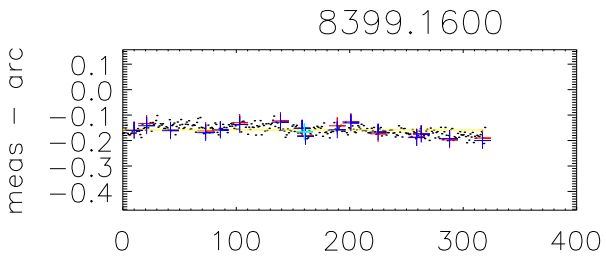

6923.2100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

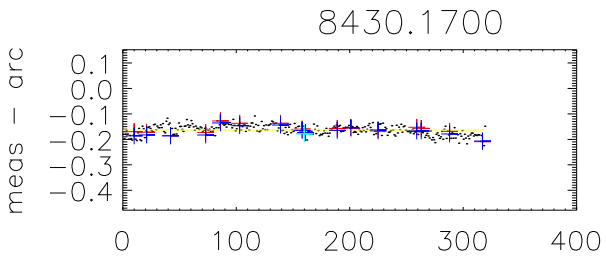

6949.0300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

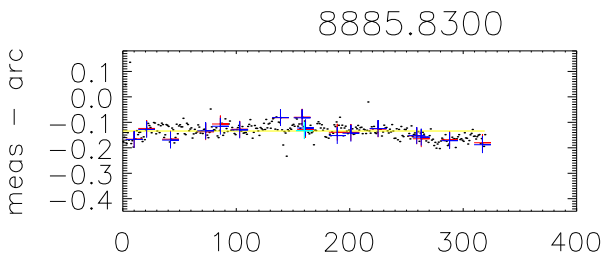

7571.7500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

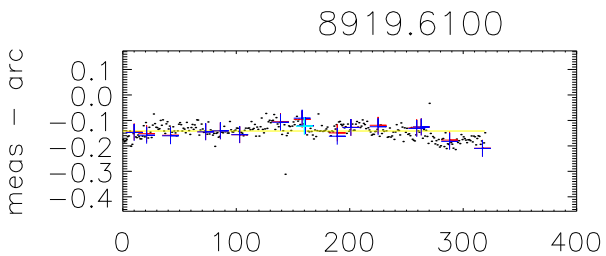

7794.1200
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

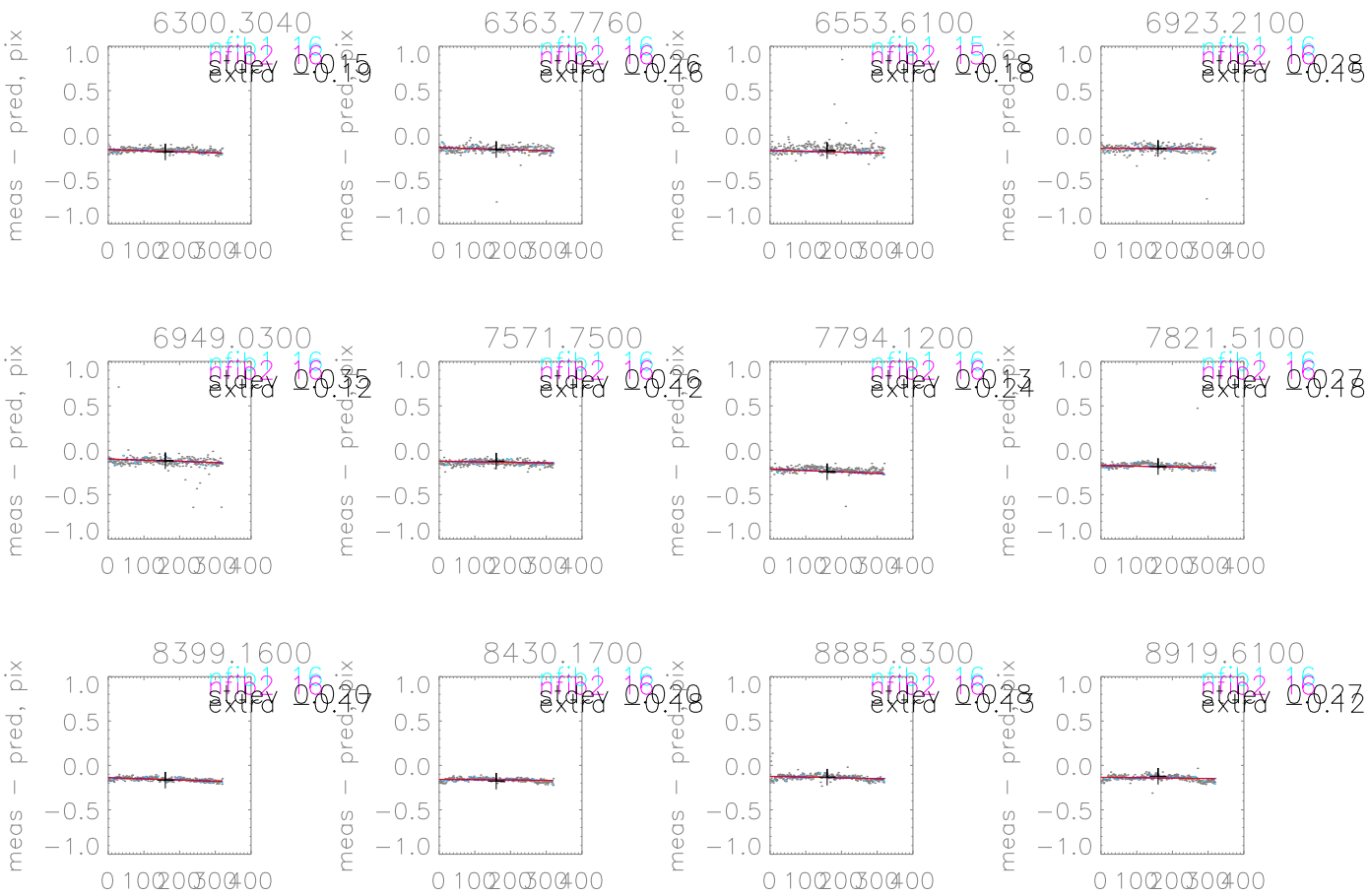

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

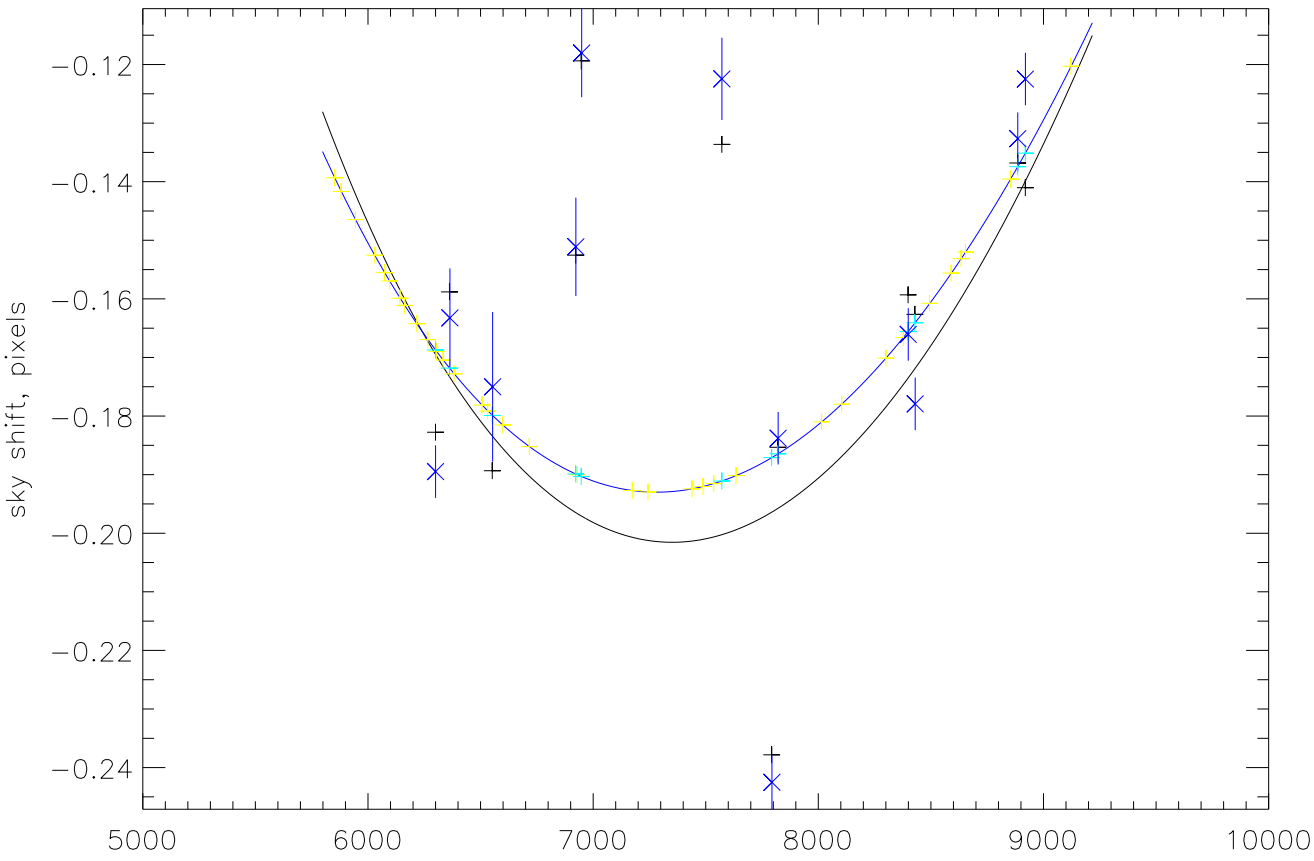

8399.1600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

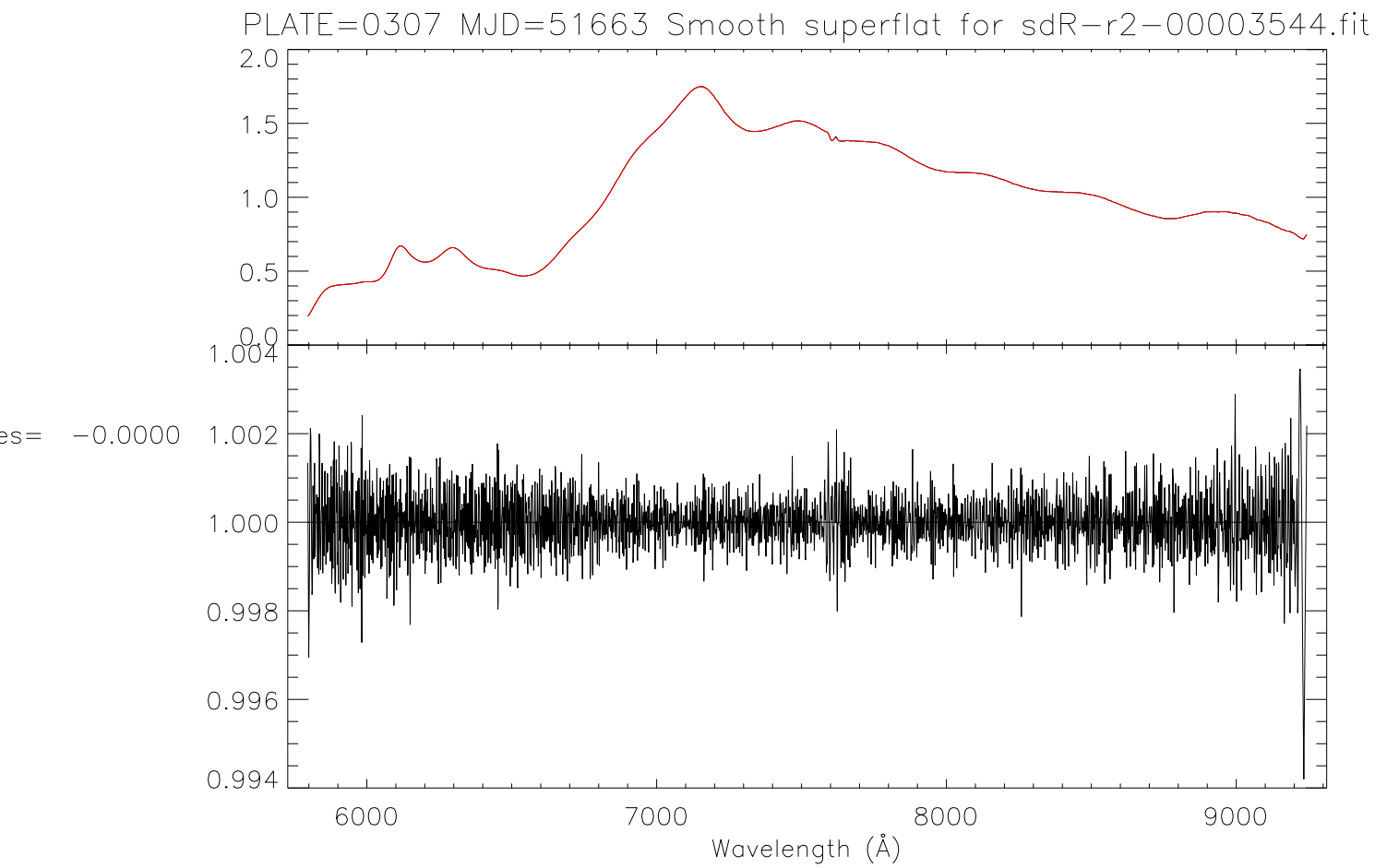

8430.1700
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

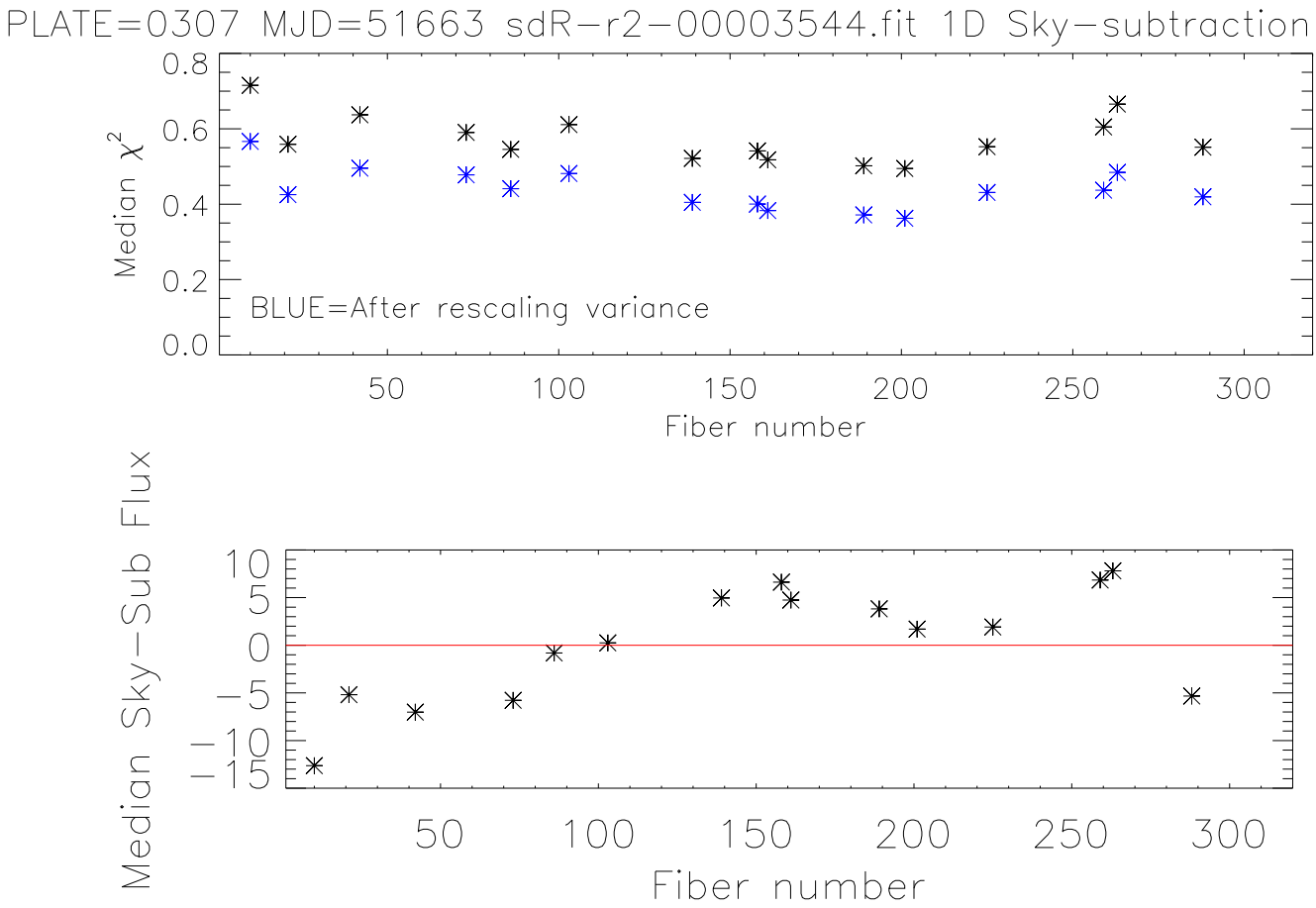

8885.8300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

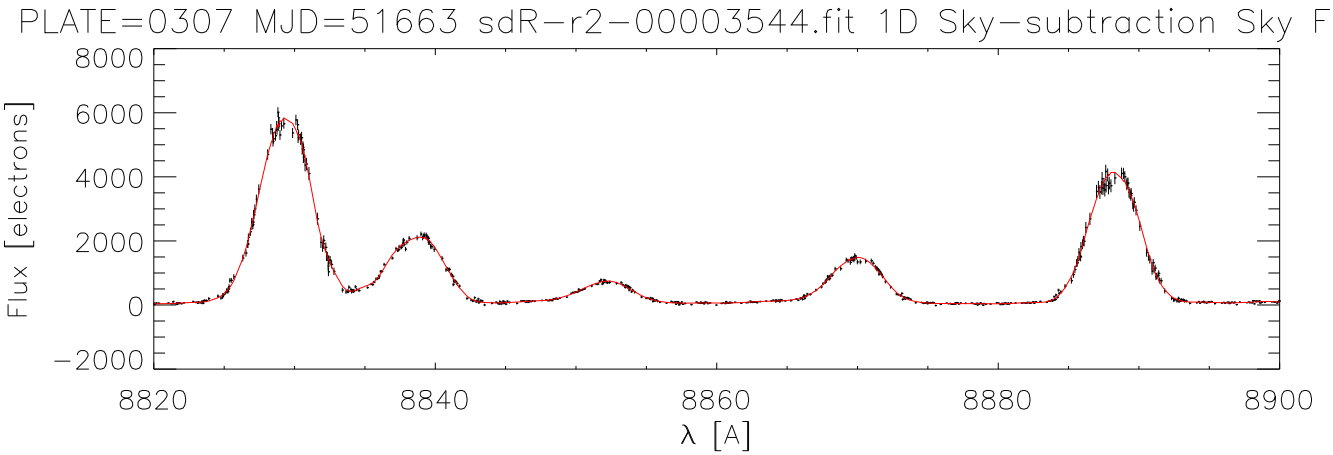

8919.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

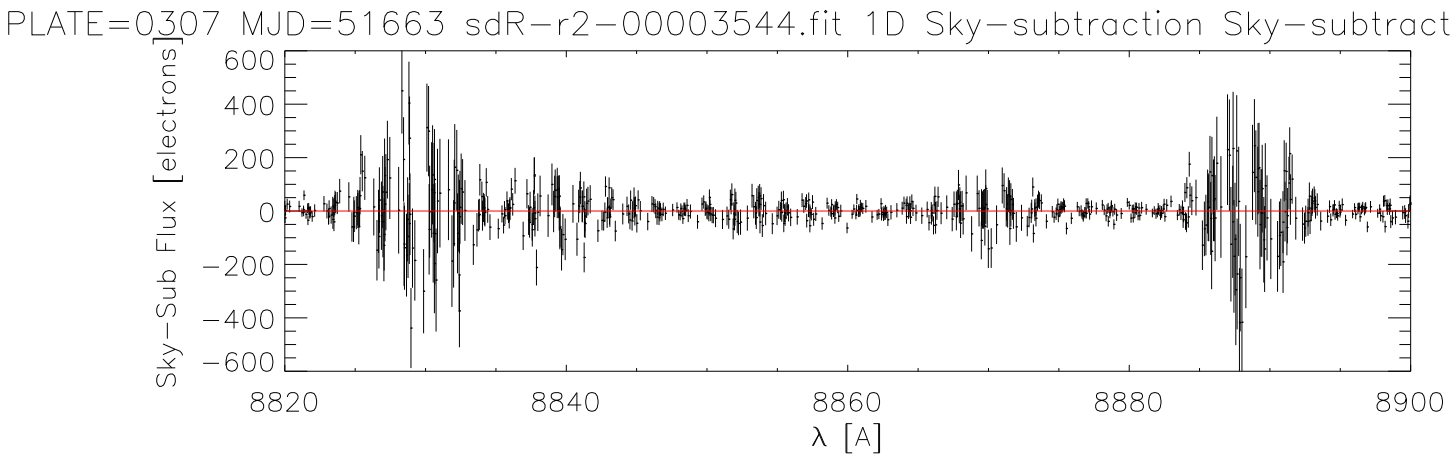

6300.3040
stdev 0.15
extra 0.19
6363.7760
stdev 0.26
extra 0.46
6553.6100
stdev 0.18
extra 0.18
6923.2100
stdev 0.28
extra 0.45
6949.0300
stdev 0.35
extra 0.32
7571.7500
stdev 0.26
extra 0.42
7794.1200
stdev 0.23
extra 0.24
7821.5100
stdev 0.27
extra 0.48
8399.1600
stdev 0.20
extra 0.47
8430.1700
stdev 0.20
extra 0.48
8885.8300
stdev 0.28
extra 0.43
8919.6100
stdev 0.27
extra 0.42
meas − pred, pix
mfib1 16
mfib2 16

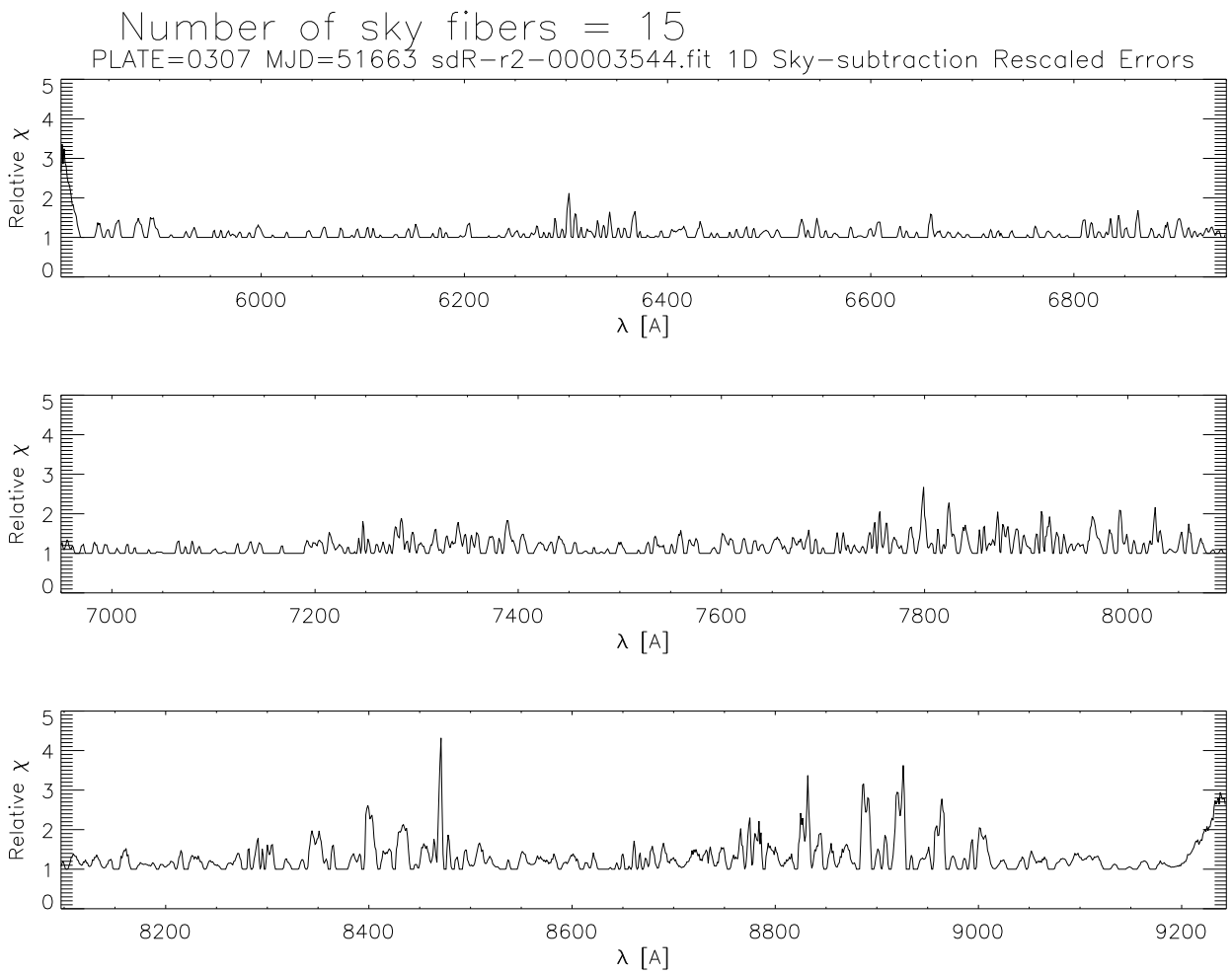

sky shift, pixels
−0.12
−0.14
−0.16
−0.18
−0.20
−0.22
−0.24
5000
6000
7000
8000
9000
10000

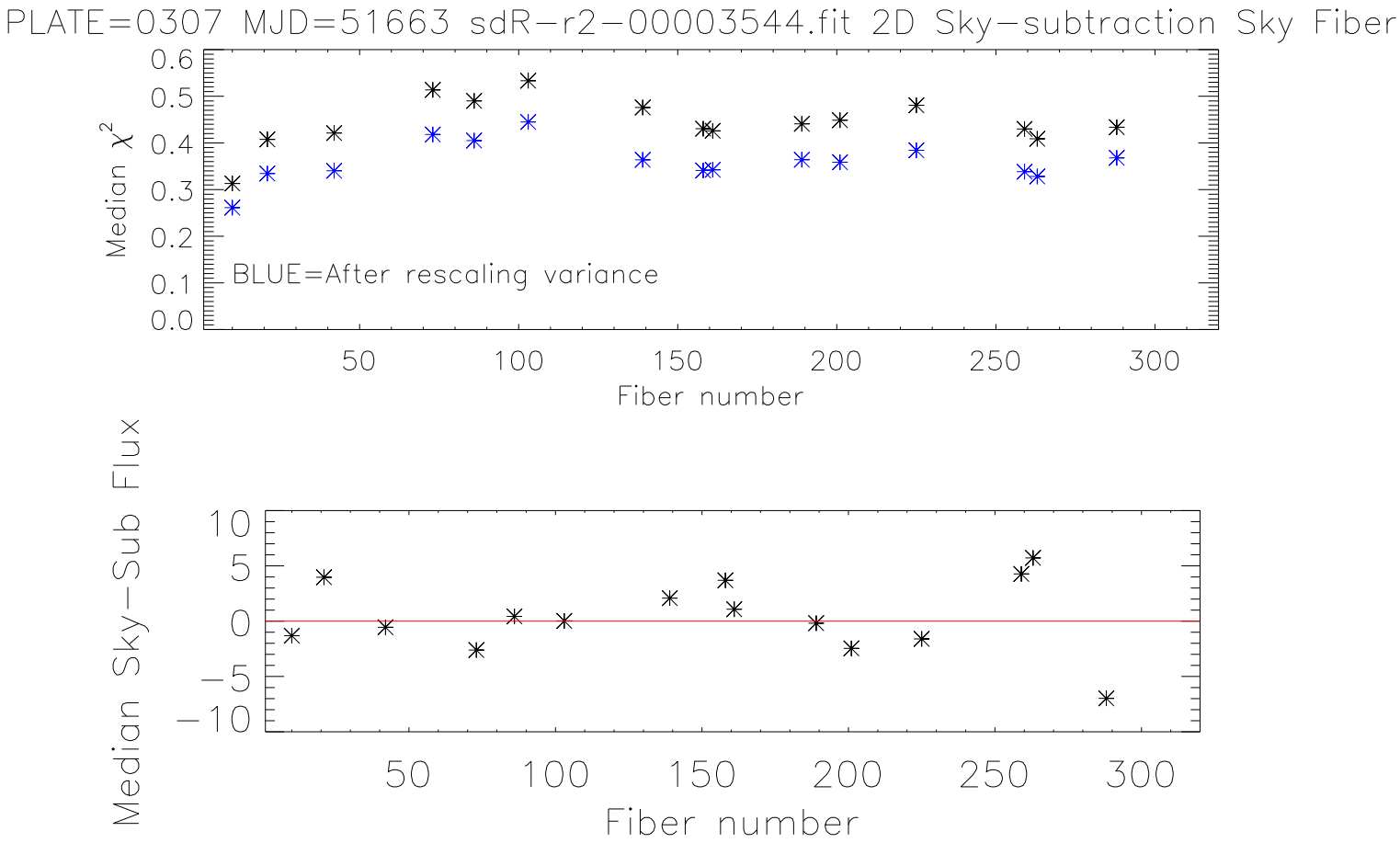

PLATE=0307 MJD=51663 Smooth superflat for sdR-r2-00003544.fit
2.0
1.5
1.0
0.5
0.0
es= -0.0000
1.004
1.002
1.000
0.998
0.996
0.994
6000
7000
8000
9000
Wavelength (Å)

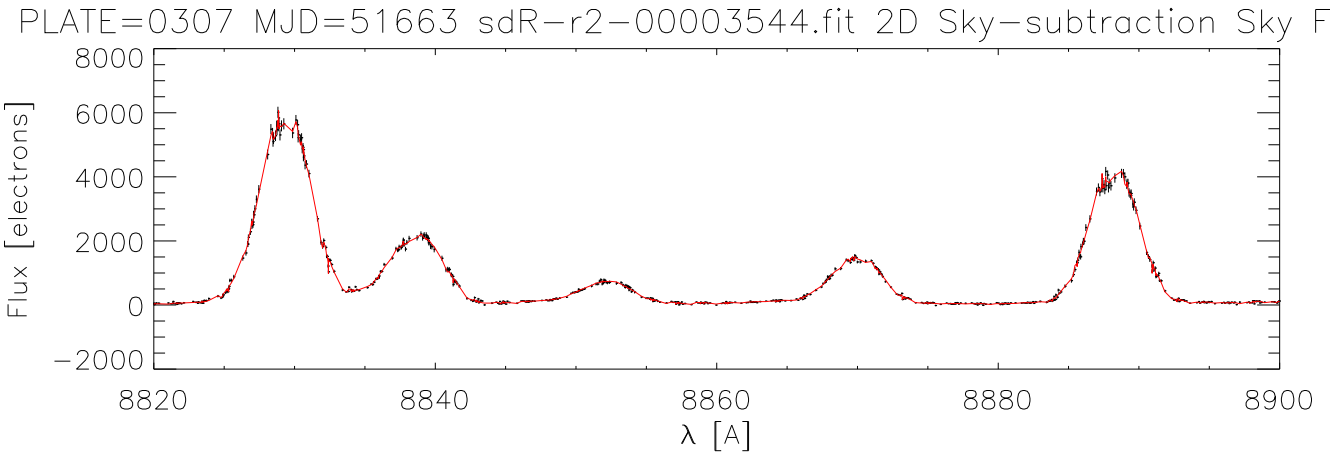

PLATE=0307 MJD=51663 sdR-r2-00003544.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

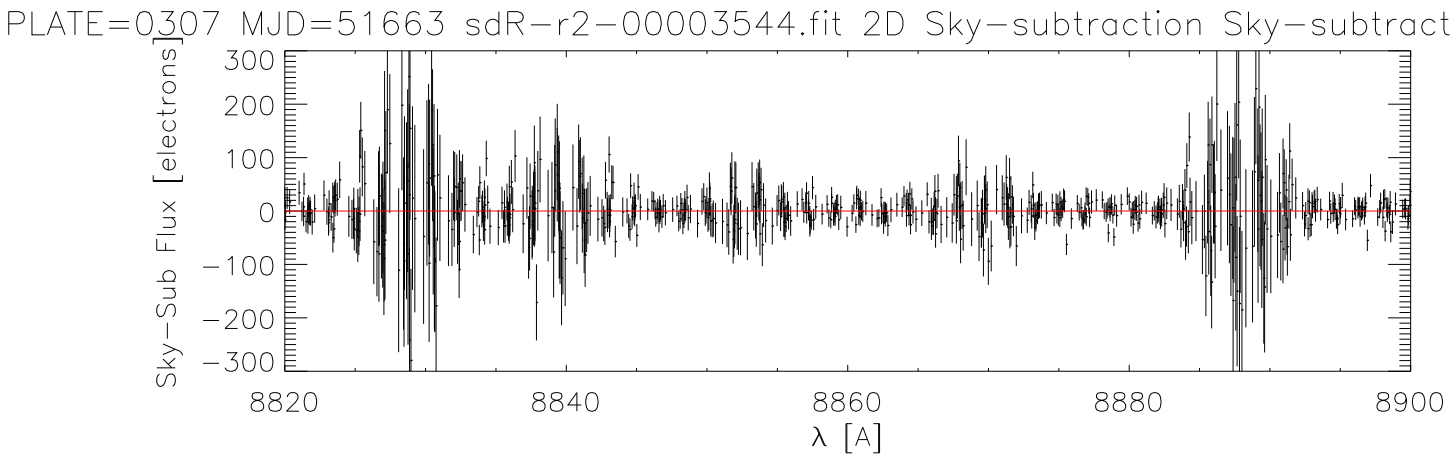

PLATE=0307 MJD=51663 sdR-r2-00003544.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
-2000
8820
8840
8860
8880
8900
λ [A]

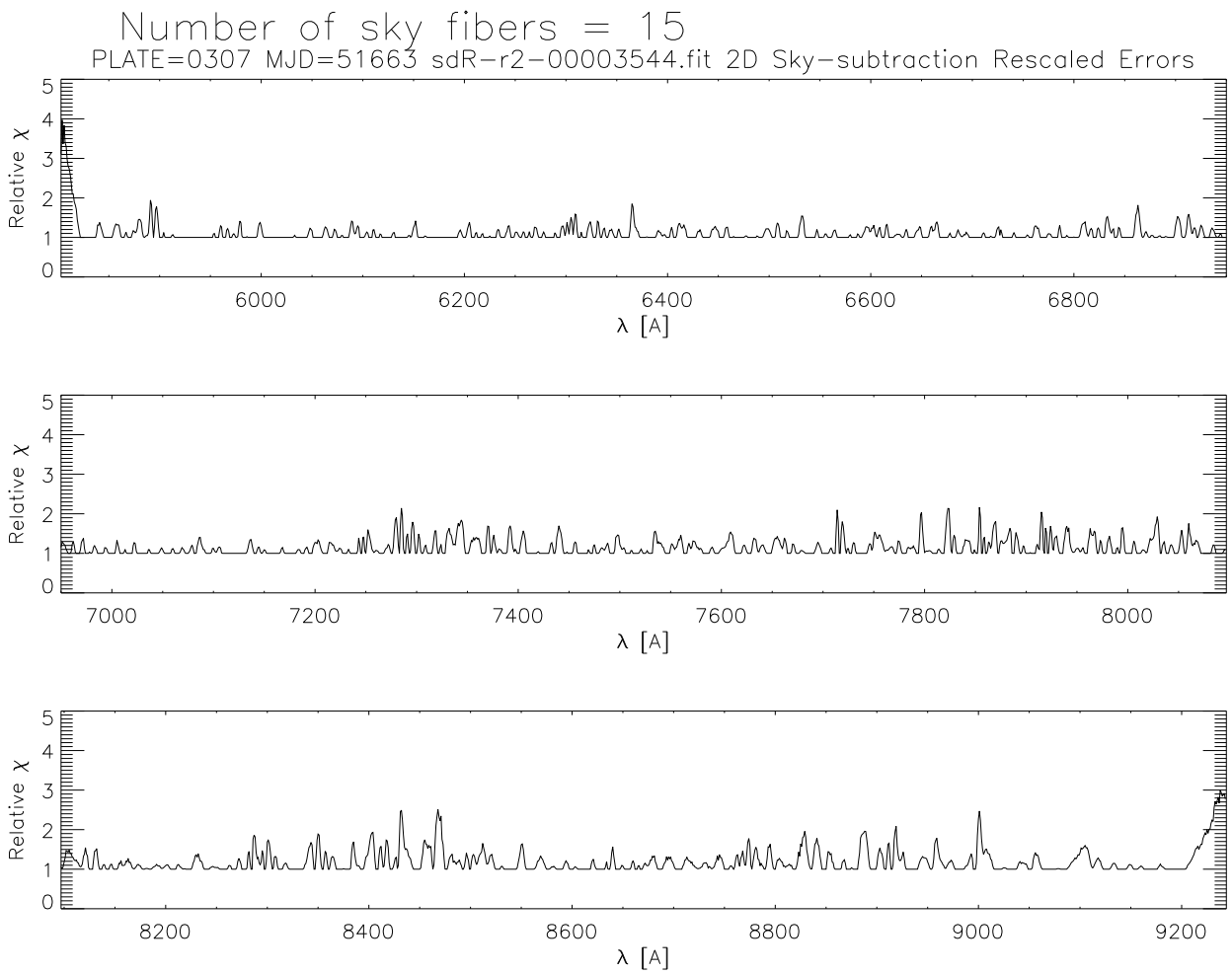

PLATE=0307 MJD=51663 sdR-r2-00003544.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
-600
8820
8840
8860
8880
8900
λ [A]

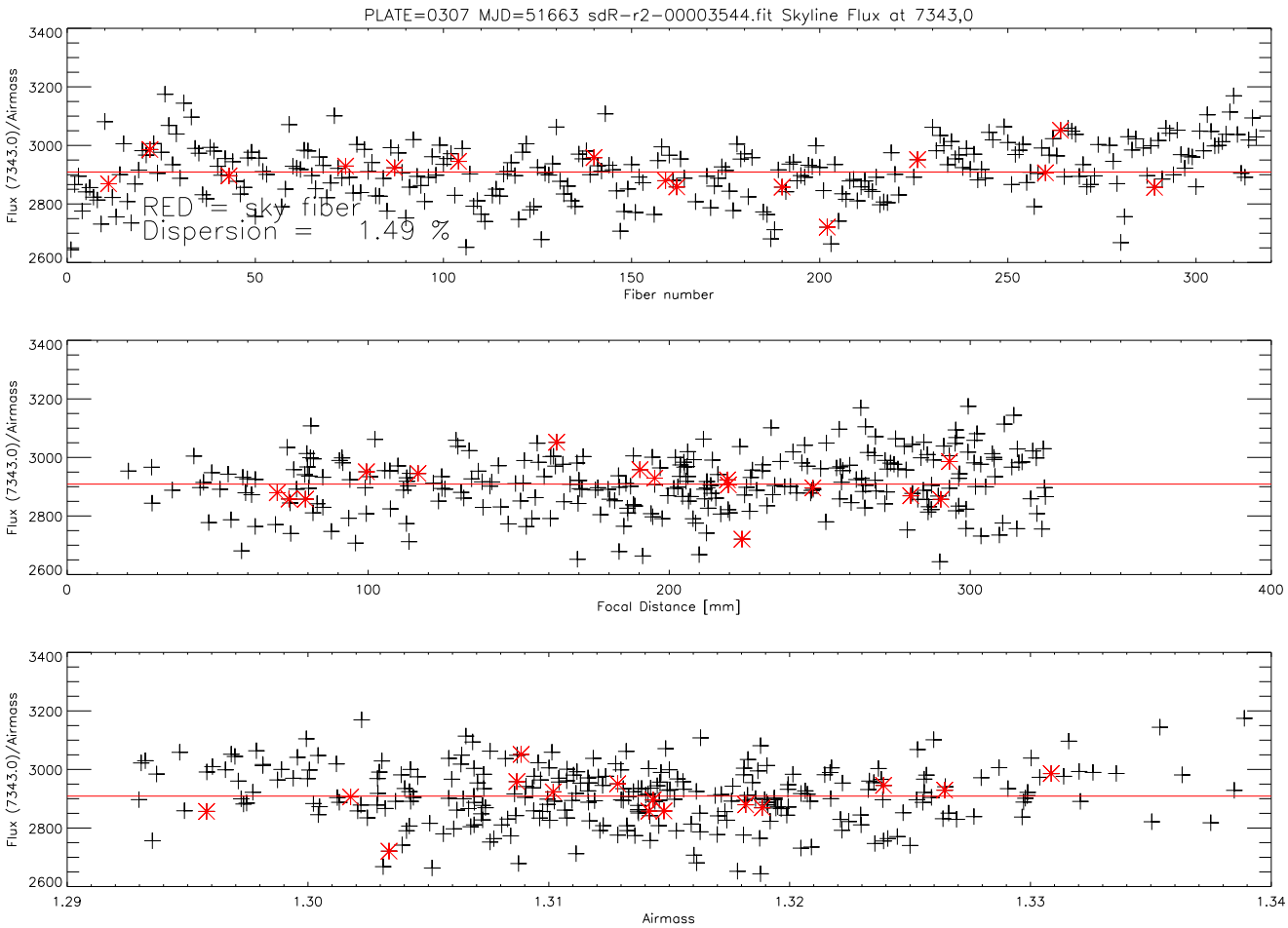

Number of sky fibers = 15
PLATE=0307 MJD=51663 sdR-r2-00003544.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

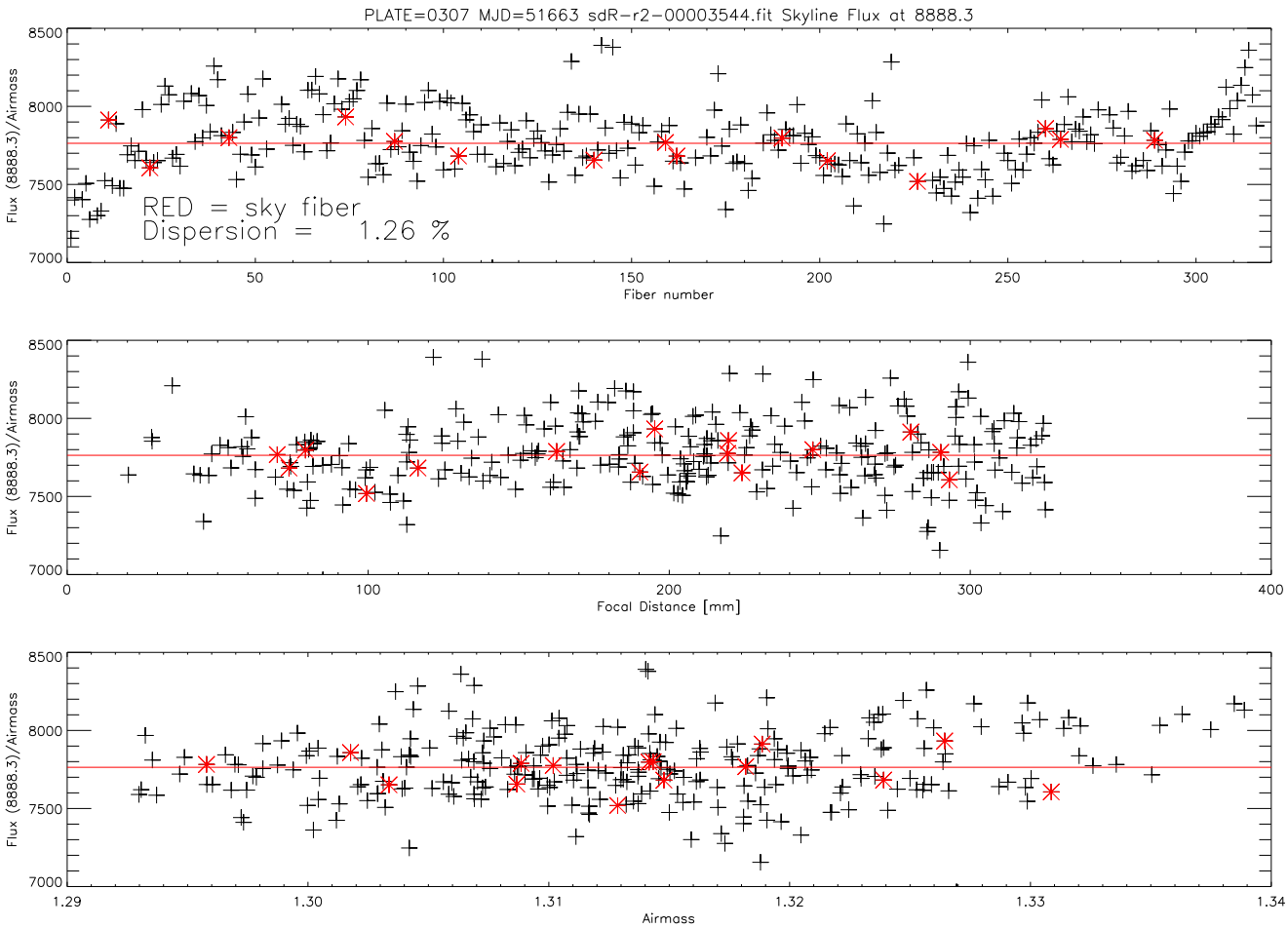

PLATE=0307 MJD=51663 sdR-r2-00003544.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

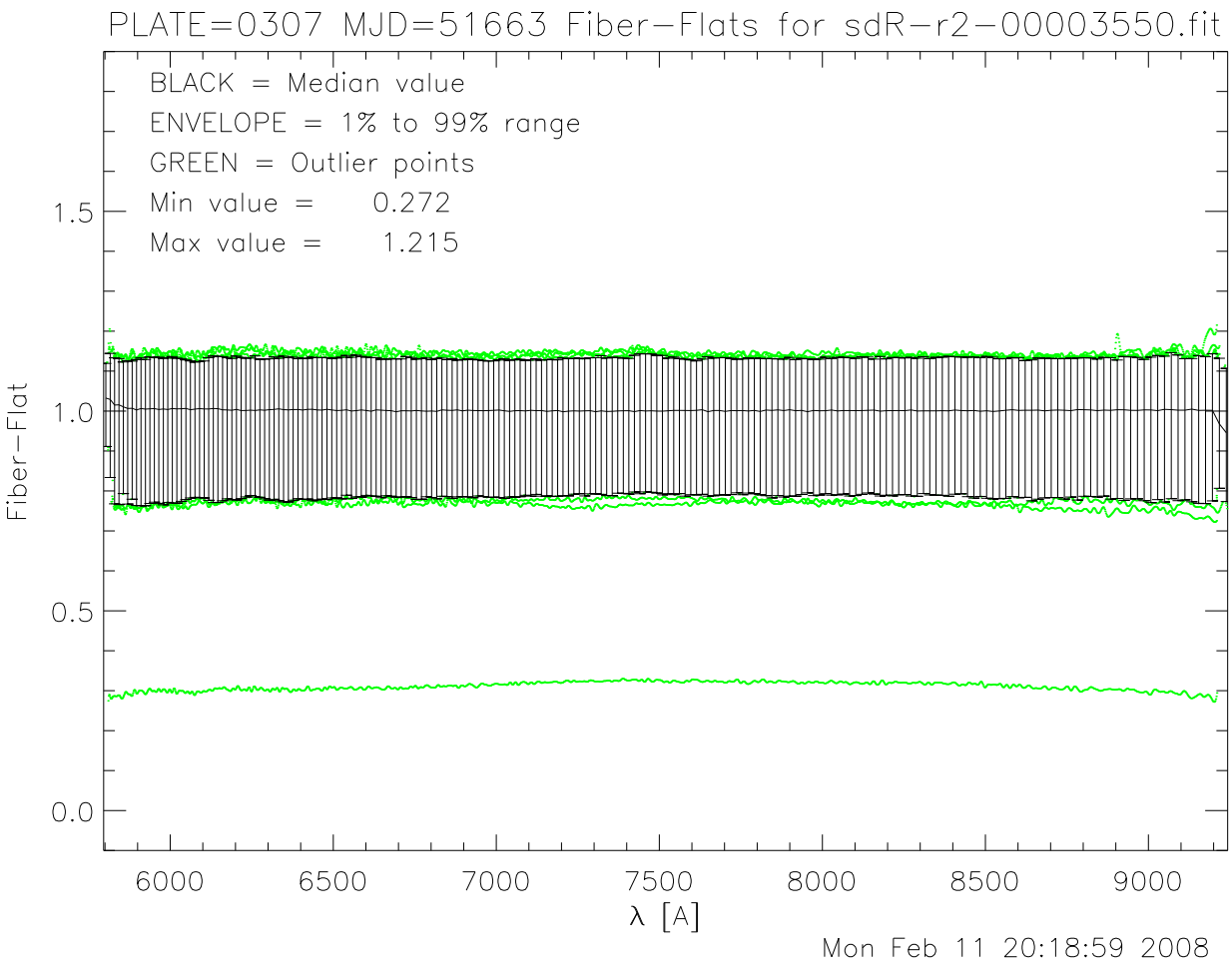

PLATE=0307 MJD=51663 sdR-r2-00003544.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
-2000
8820
8840
8860
8880
8900
λ [A]

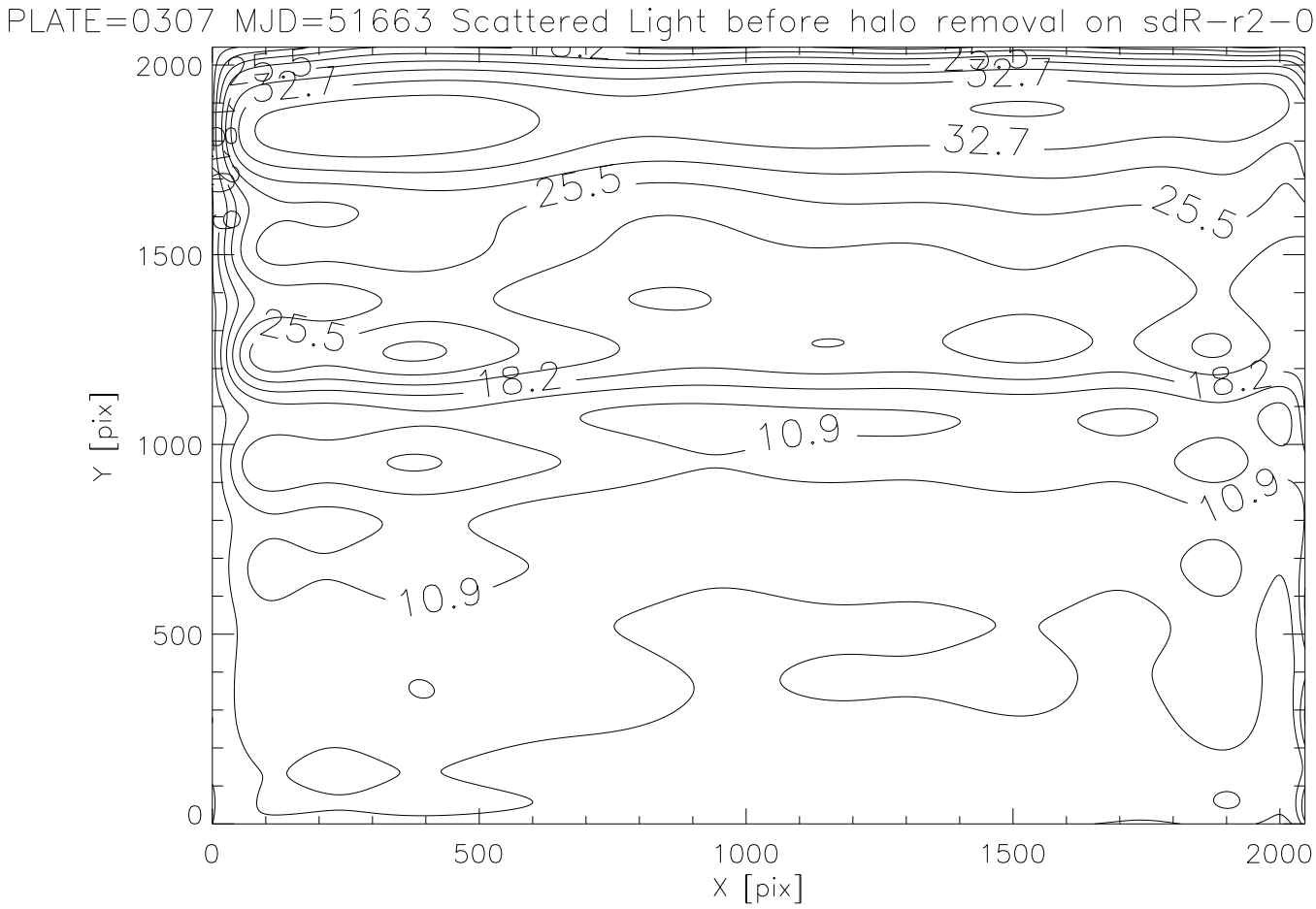

PLATE=0307 MJD=51663 sdR-r2-00003544.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

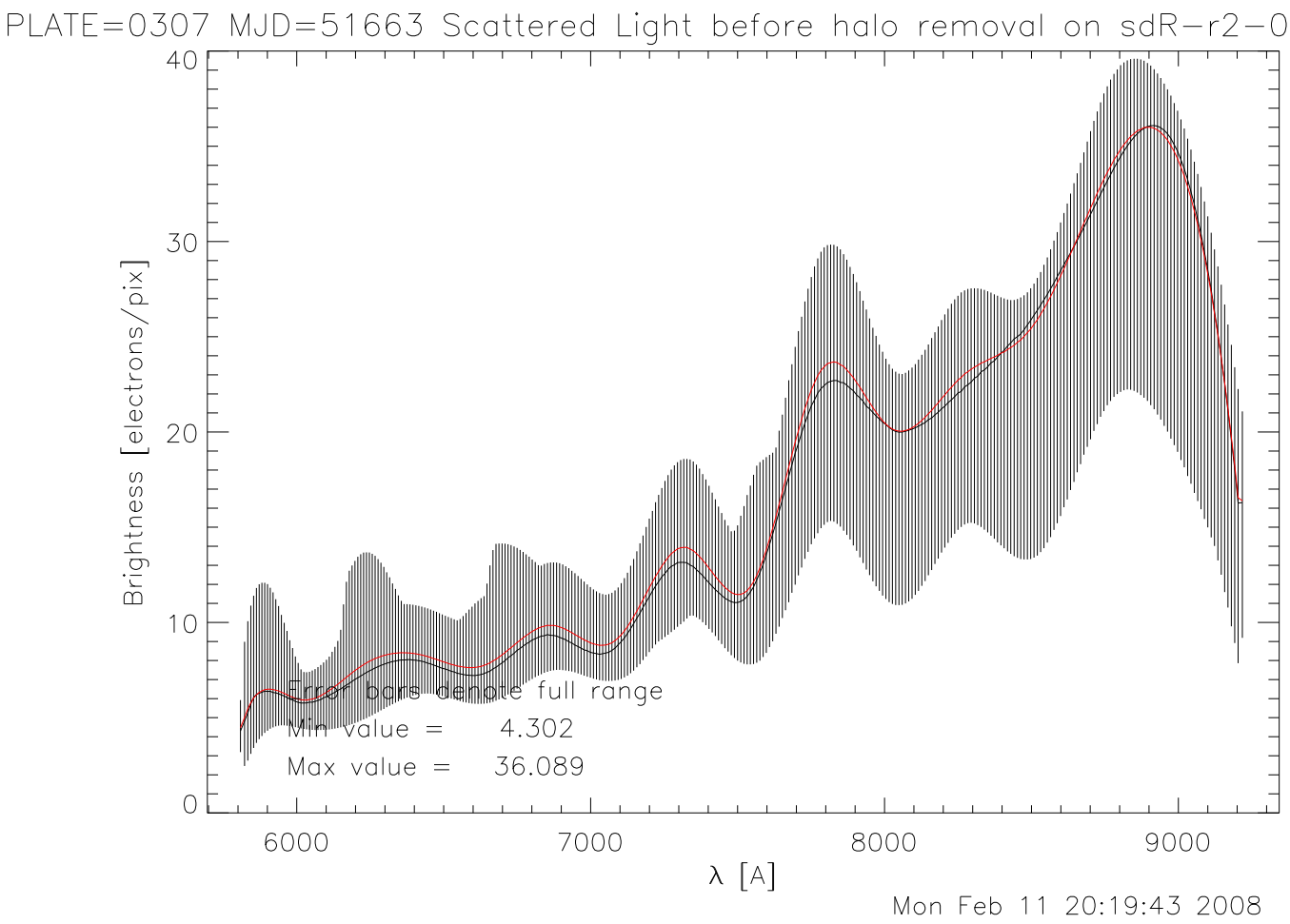

Number of sky fibers = 15
PLATE=0307 MJD=51663 sdR-r2-00003544.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

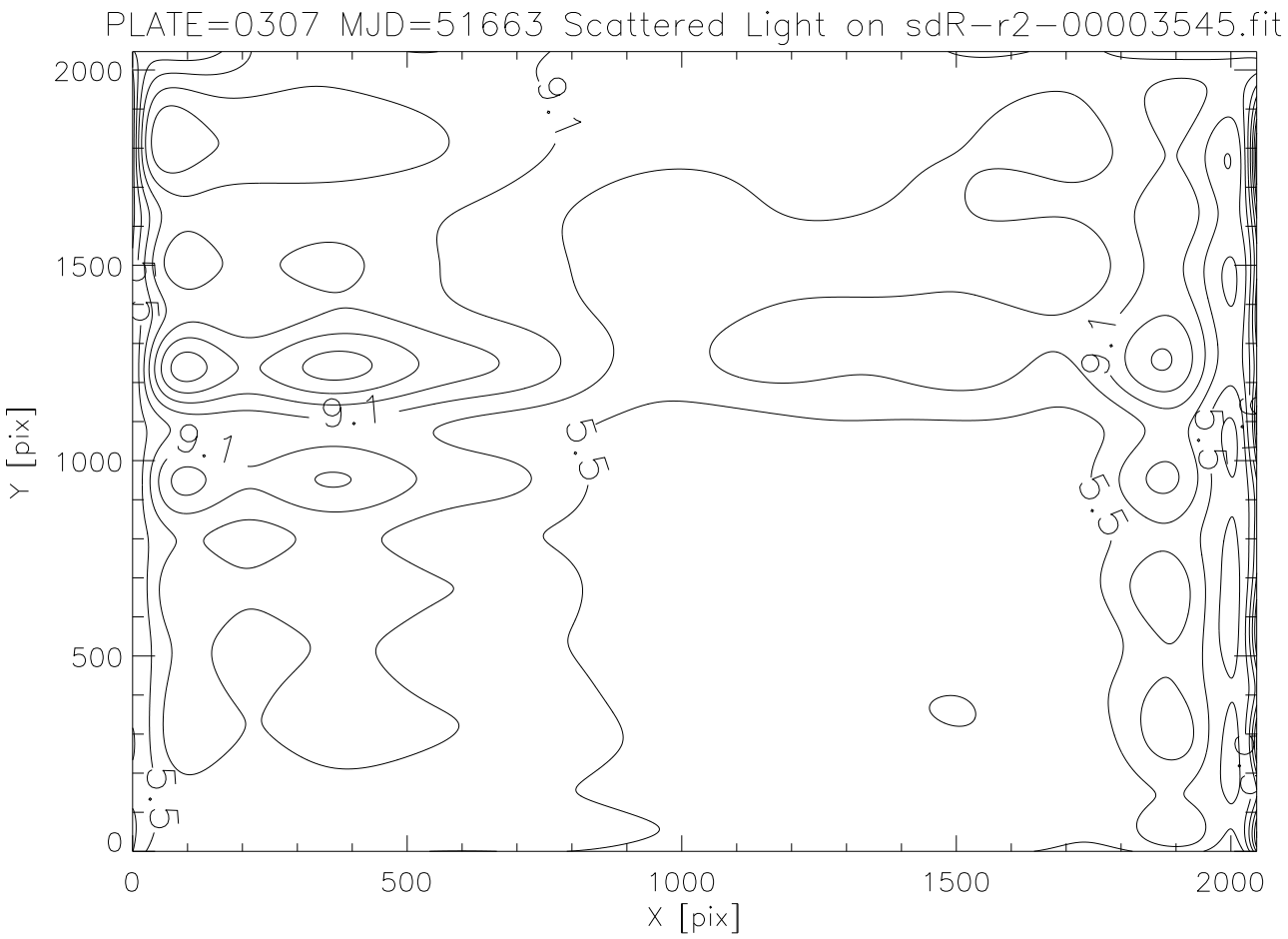

PLATE=0307 MJD=51663 sdR-r2-00003544.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.49 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

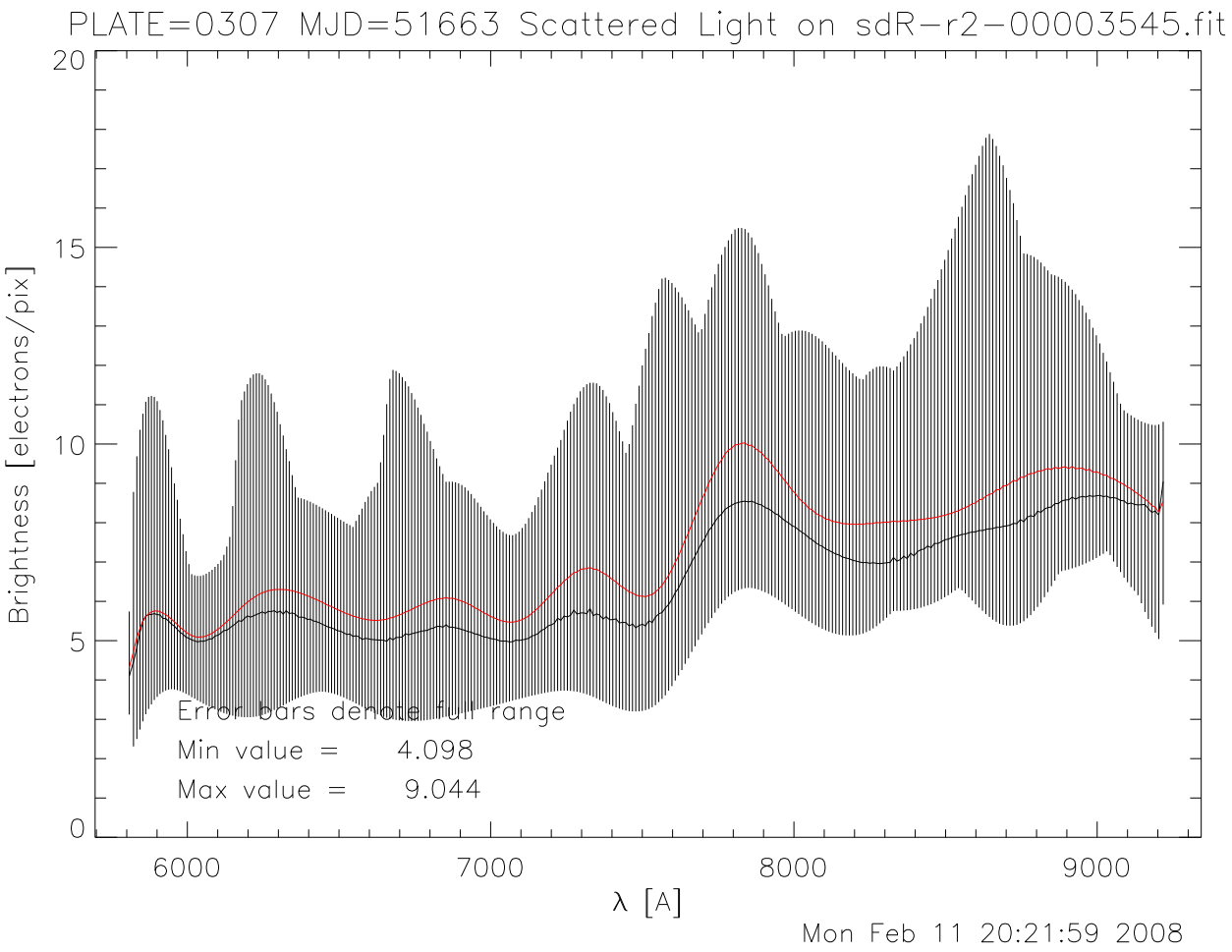

PLATE=0307 MJD=51663 sdR-r2-00003544.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.26 %
Fiber number
Focal Distance [mm]
Airmass

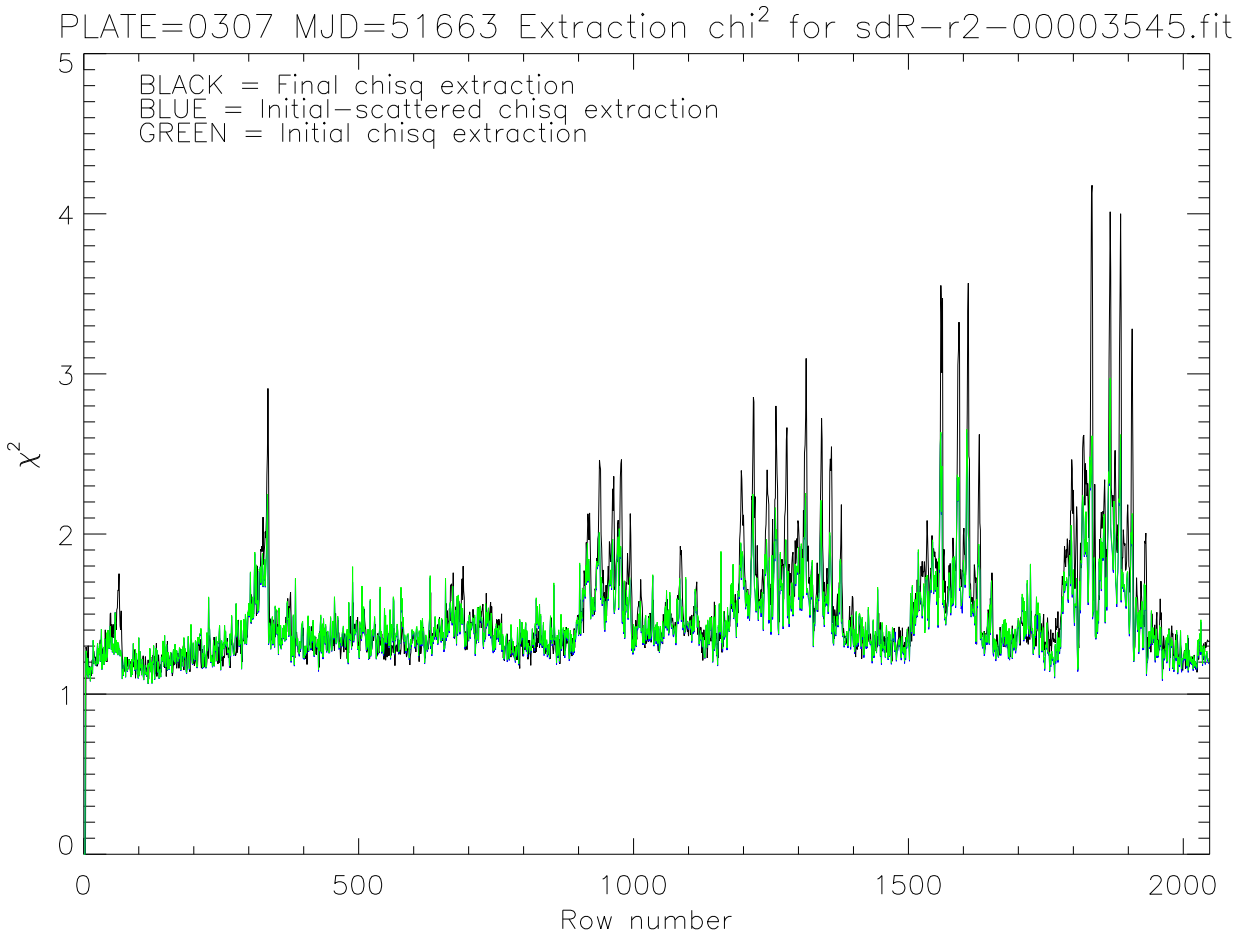

PLATE=0307 MJD=51663 Fiber−Flats for sdR−r2−00003550.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.272
Max value = 1.215
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 11 20:18:59 2008

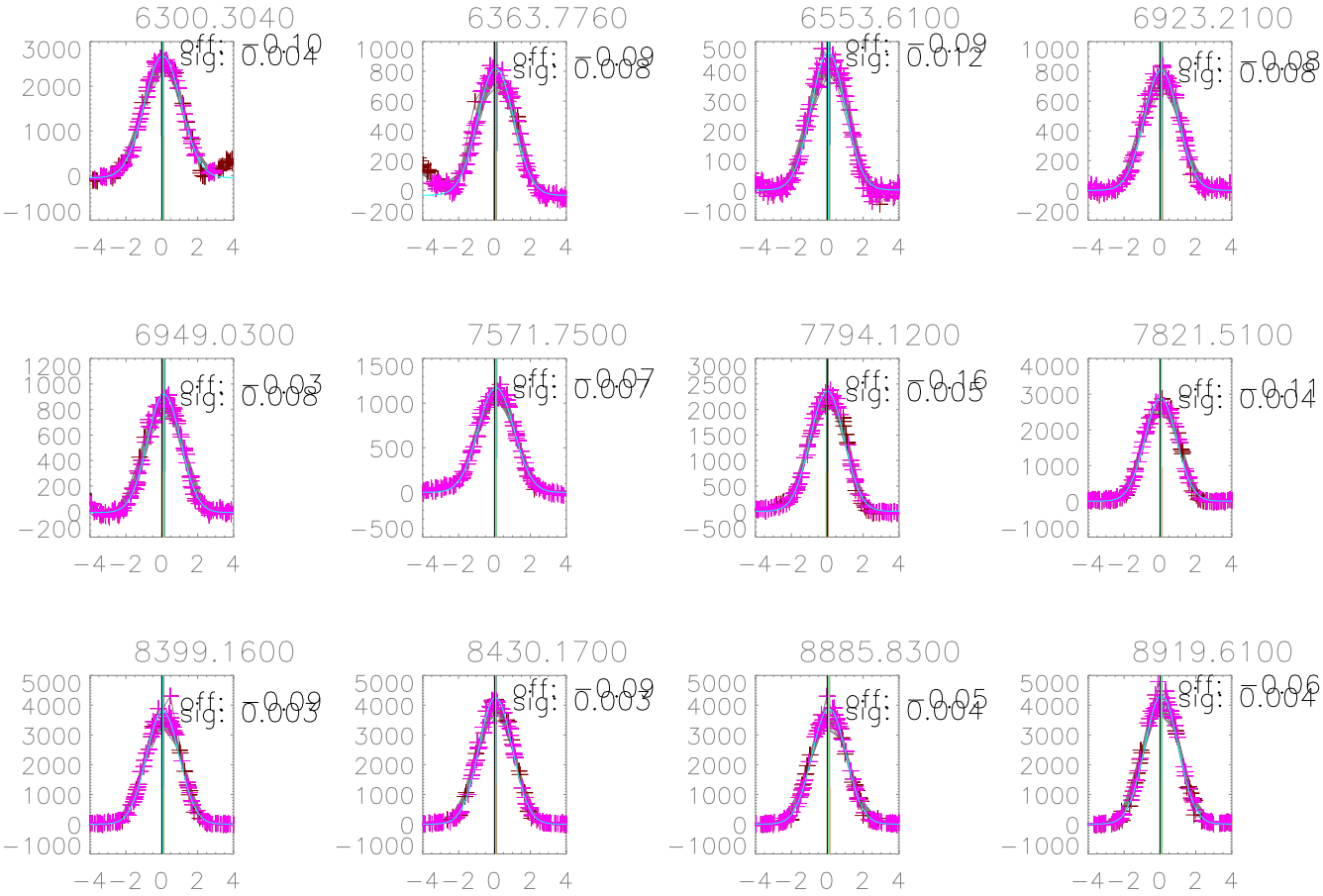

PLATE=0307 MJD=51663 Scattered Light before halo removal on sdR-r2-00003545.fi
32.7
25.5
18.2
10.9
Y [pix]
X [pix]
0
500
1000
1500
2000

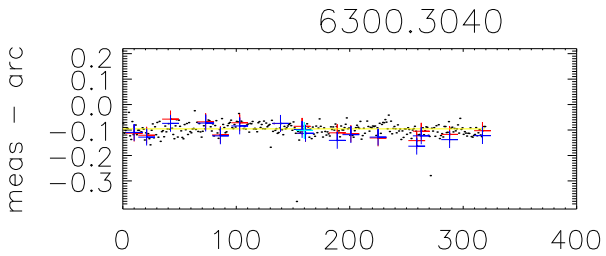

PLATE=0307 MJD=51663 Scattered Light before halo removal on sdR-r2-00003545.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.302
Max value = 36.089
Mon Feb 11 20:19:43 2008

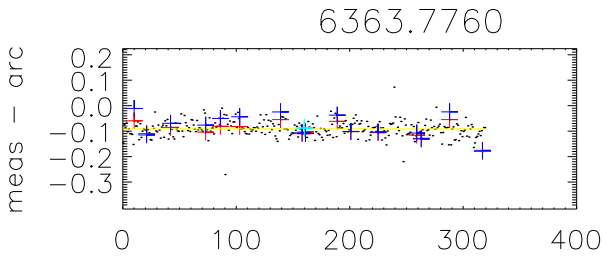

PLATE=0307 MJD=51663 Scattered Light on sdR-r2-00003545.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
9.1
5.5

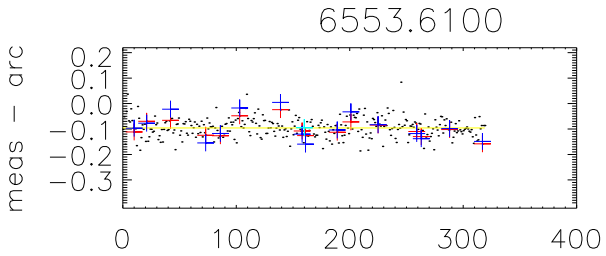

PLATE=0307 MJD=51663 Scattered Light on sdR-r2-00003545.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.098
Max value = 9.044
Mon Feb 11 20:21:59 2008

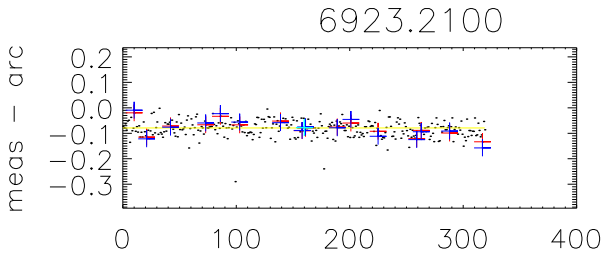

PLATE=0307 MJD=51663 Extraction chi^2 for sdR−r2−00003545.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

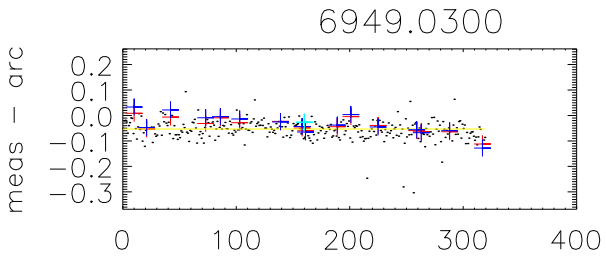

6300.3040
off: −0.10
sig: 0.004
6363.7760
off: −0.09
sig: 0.008
6553.6100
off: −0.09
sig: 0.012
6923.2100
off: −0.08
sig: 0.008
6949.0300
off: −0.03
sig: 0.008
7571.7500
off: −0.07
sig: 0.007
7794.1200
off: −0.16
sig: 0.005
7821.5100
off: −0.11
sig: 0.004
8399.1600
off: −0.09
sig: 0.003
8430.1700
off: −0.09
sig: 0.003
8885.8300
off: −0.05
sig: 0.004
8919.6100
off: −0.06
sig: 0.004

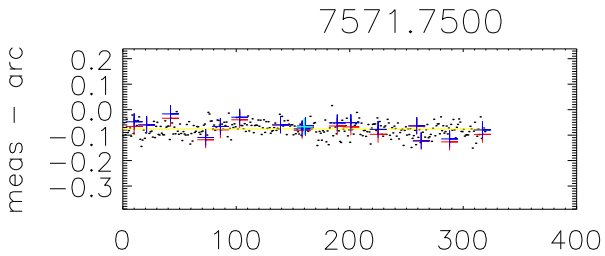

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

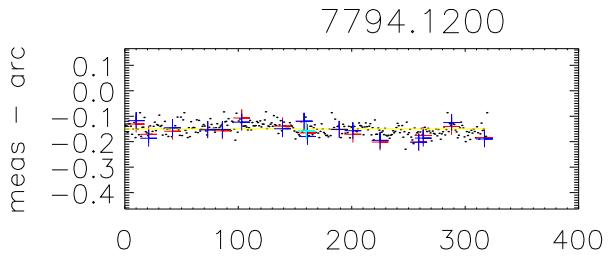

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

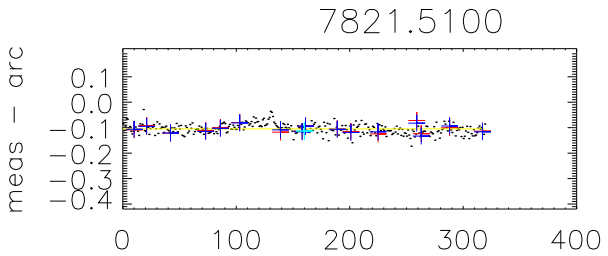

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

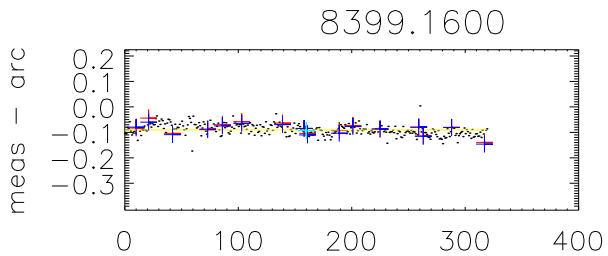

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

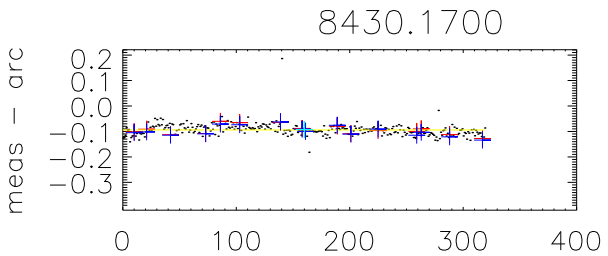

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

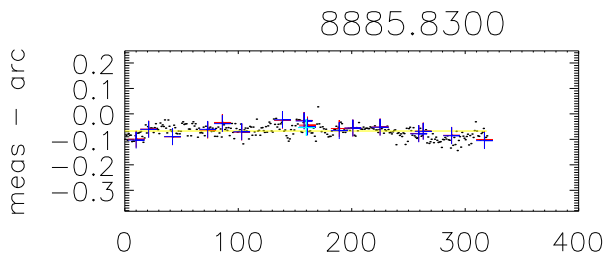

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

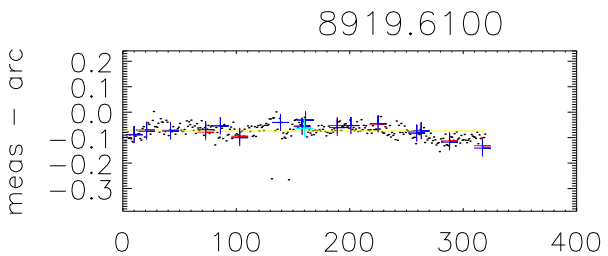

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

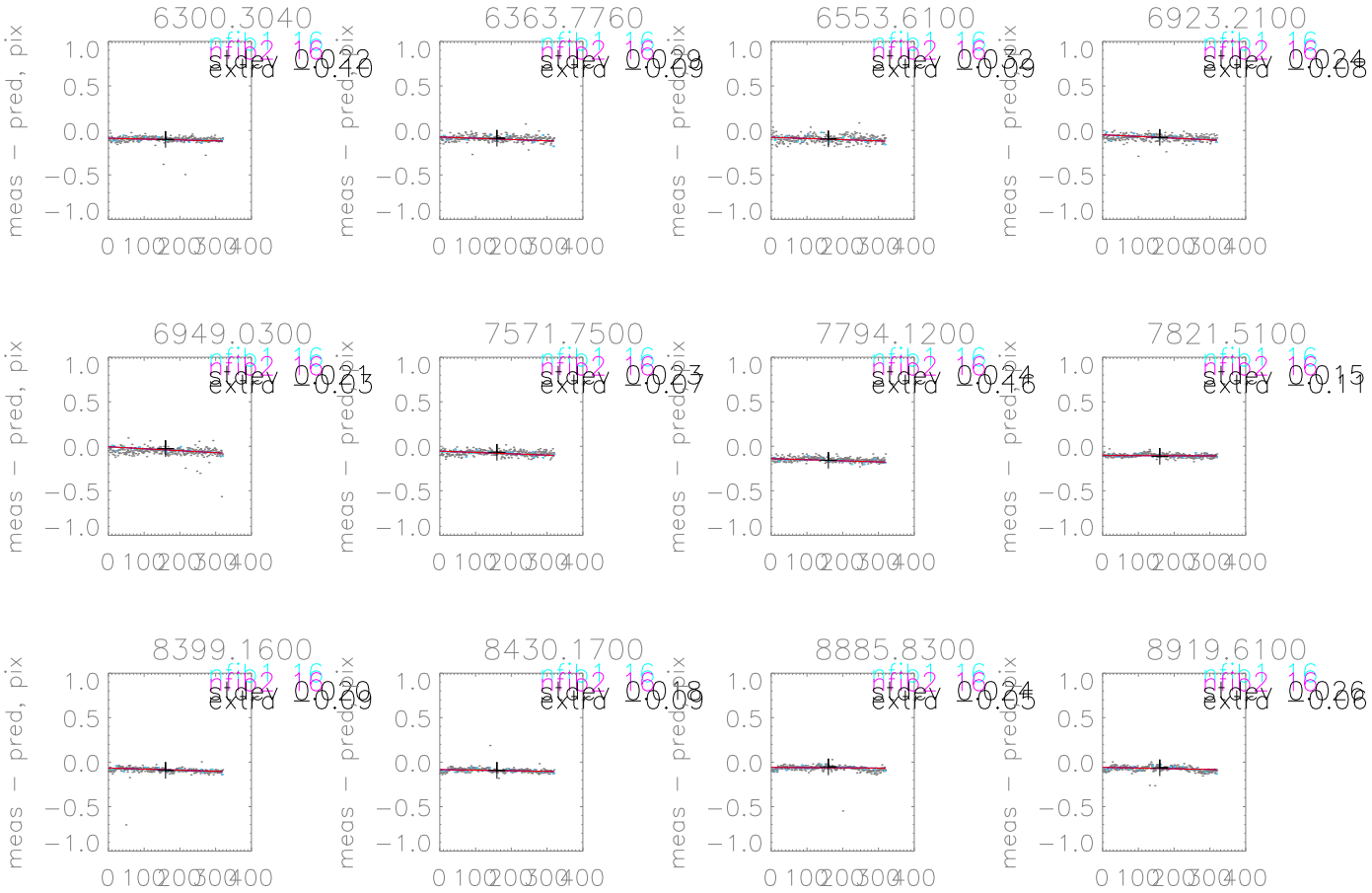

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

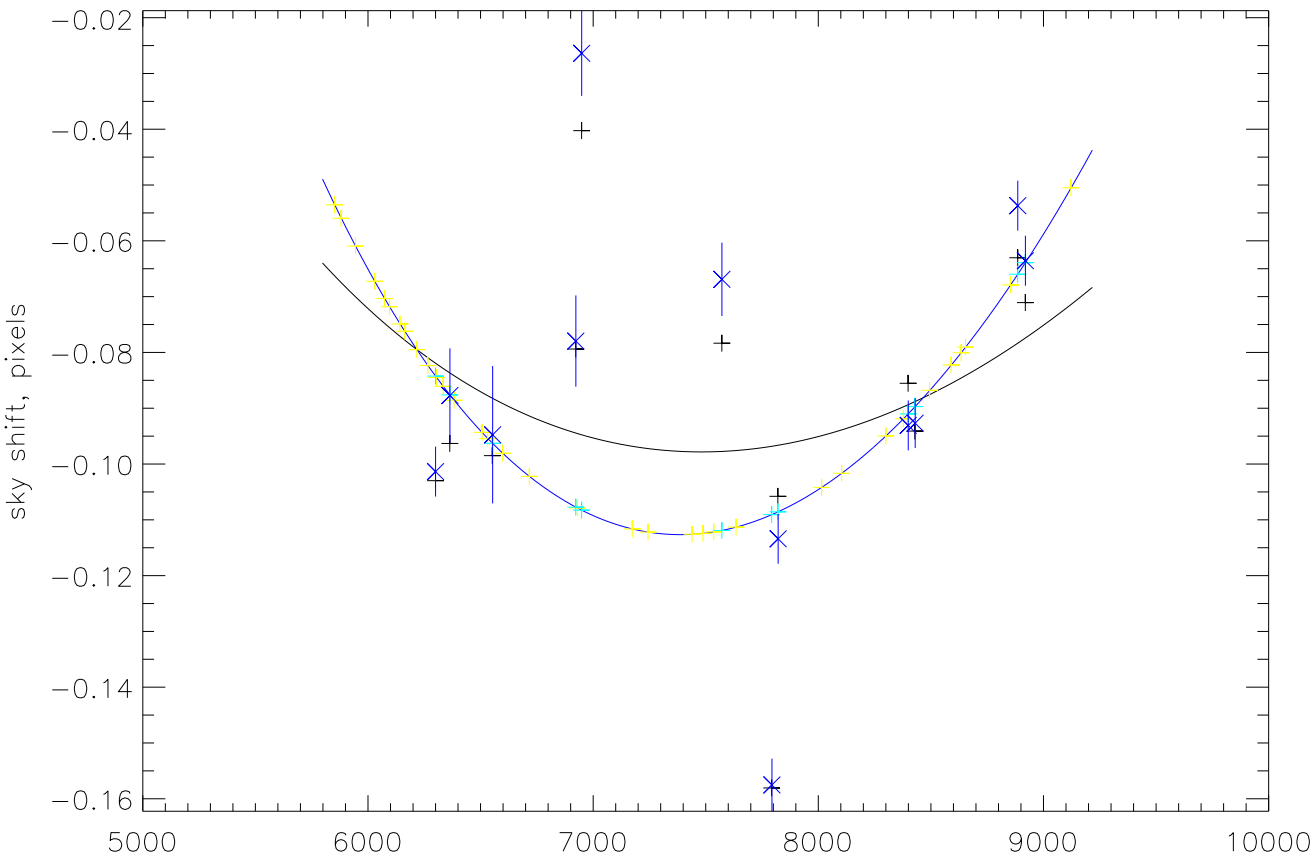

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

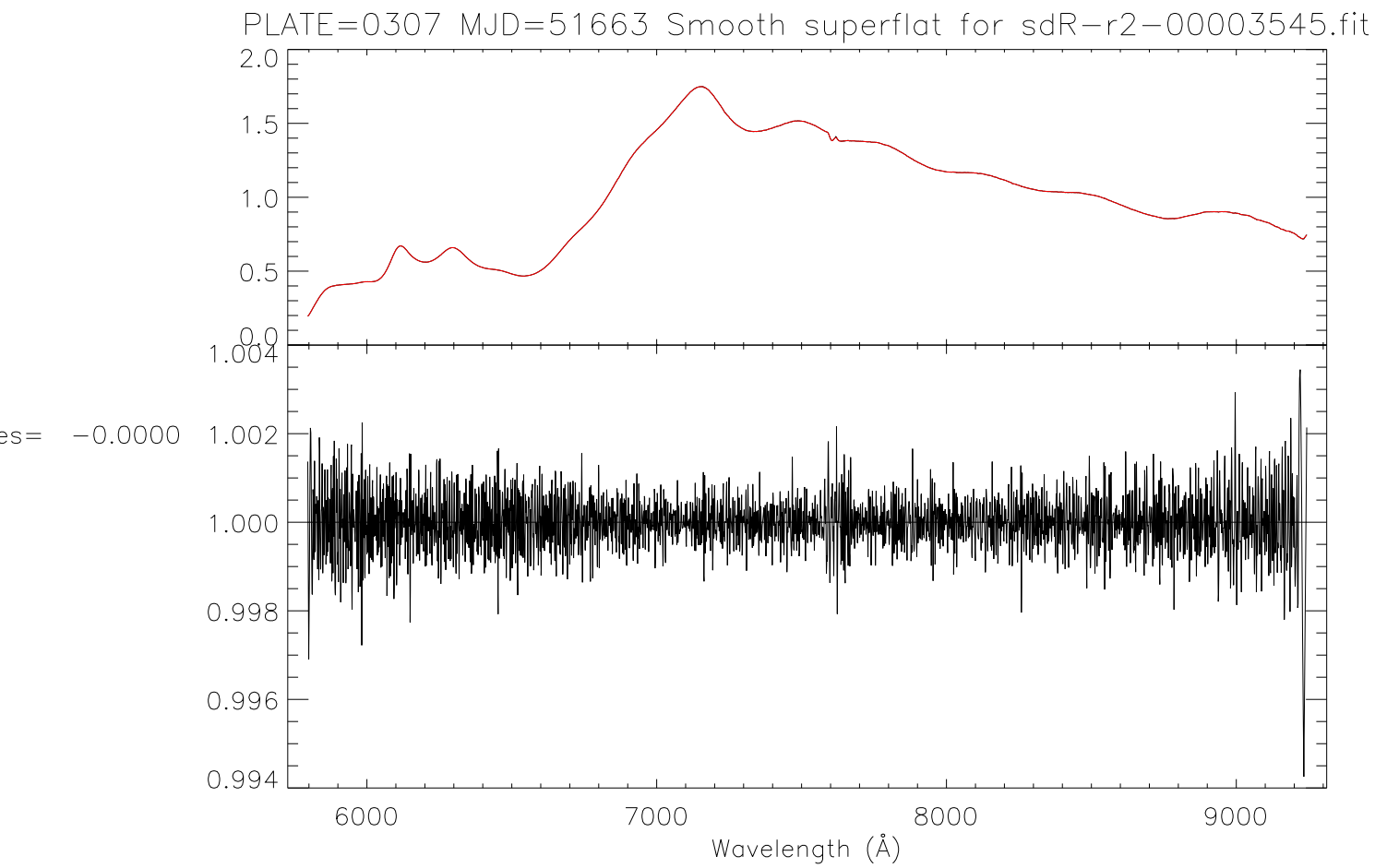

8430.1700
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

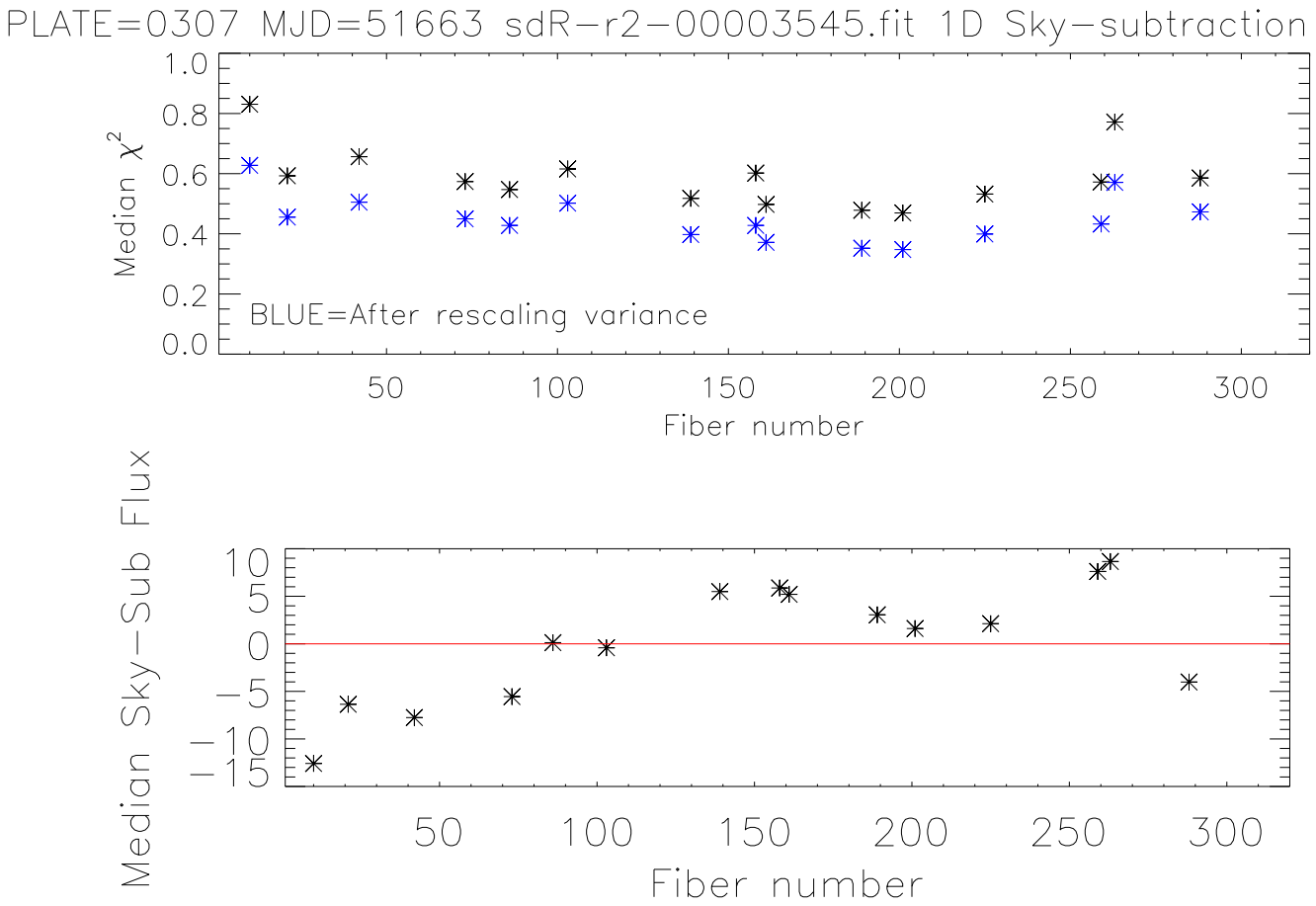

8885.8300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

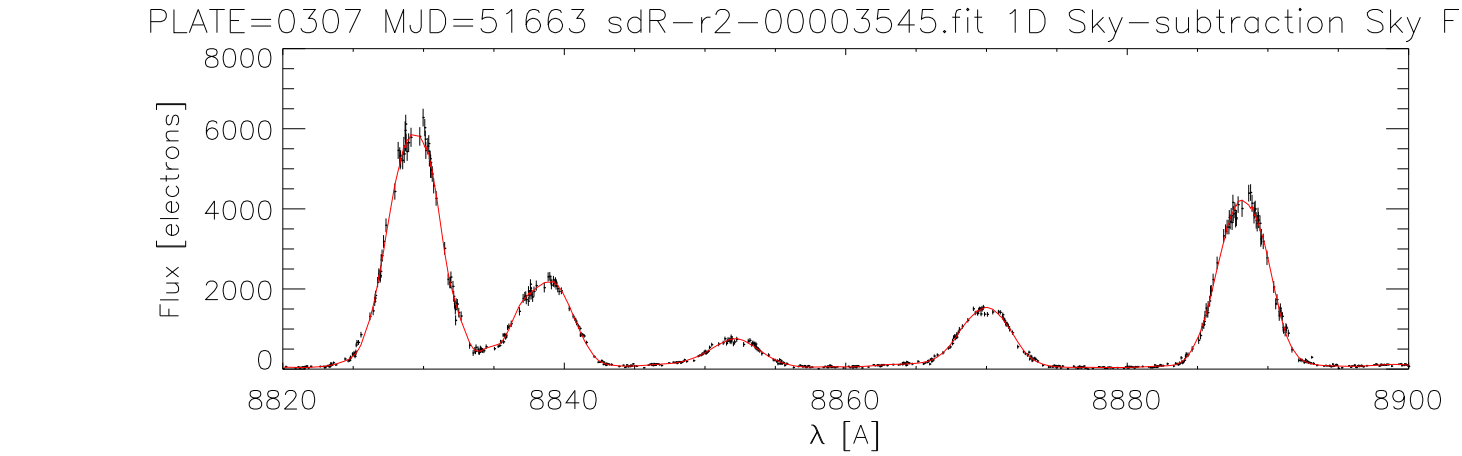

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

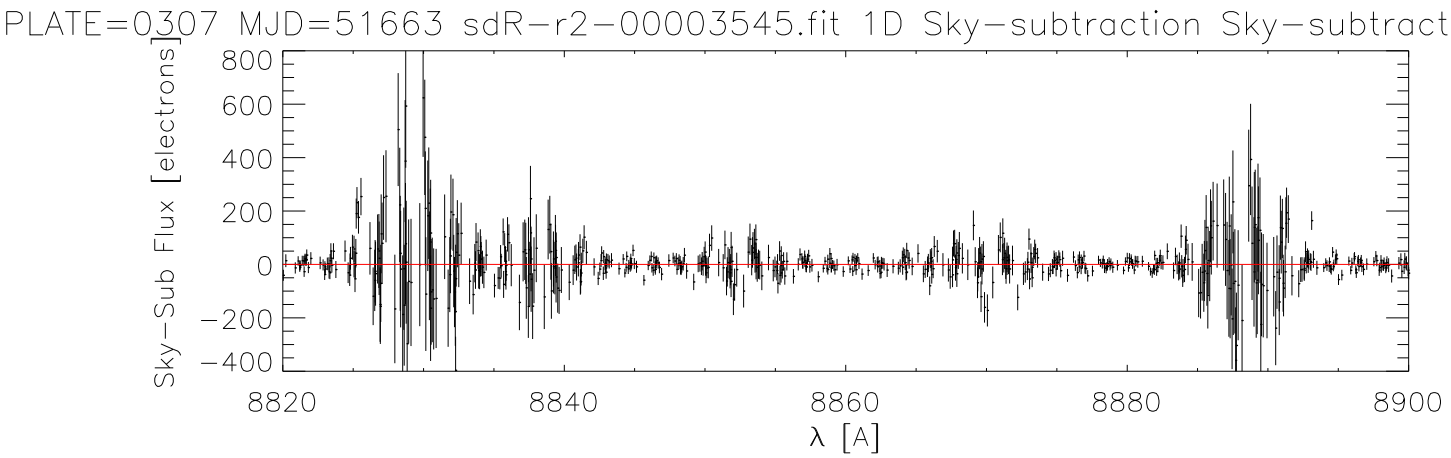

6300.3040
mfhs2 16
stdev 0.022
extra 0.40
6363.7760
mfhs2 16
stdev 0.029
extra 0.09
6553.6100
mfhs2 16
stdev 0.032
extra 0.09
6923.2100
mfhs2 16
stdev 0.024
extra 0.08
6949.0300
mfhs2 16
stdev 0.021
extra 0.03
7571.7500
mfhs2 16
stdev 0.023
extra 0.07
7794.1200
mfhs2 16
stdev 0.024
extra 0.46
7821.5100
mfhs2 16
stdev 0.015
extra 0.11
8399.1600
mfhs2 16
stdev 0.020
extra 0.09
8430.1700
mfhs2 16
stdev 0.018
extra 0.09
8885.8300
mfhs2 16
stdev 0.024
extra 0.05
8919.6100
mfhs2 16
stdev 0.026
extra 0.06
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

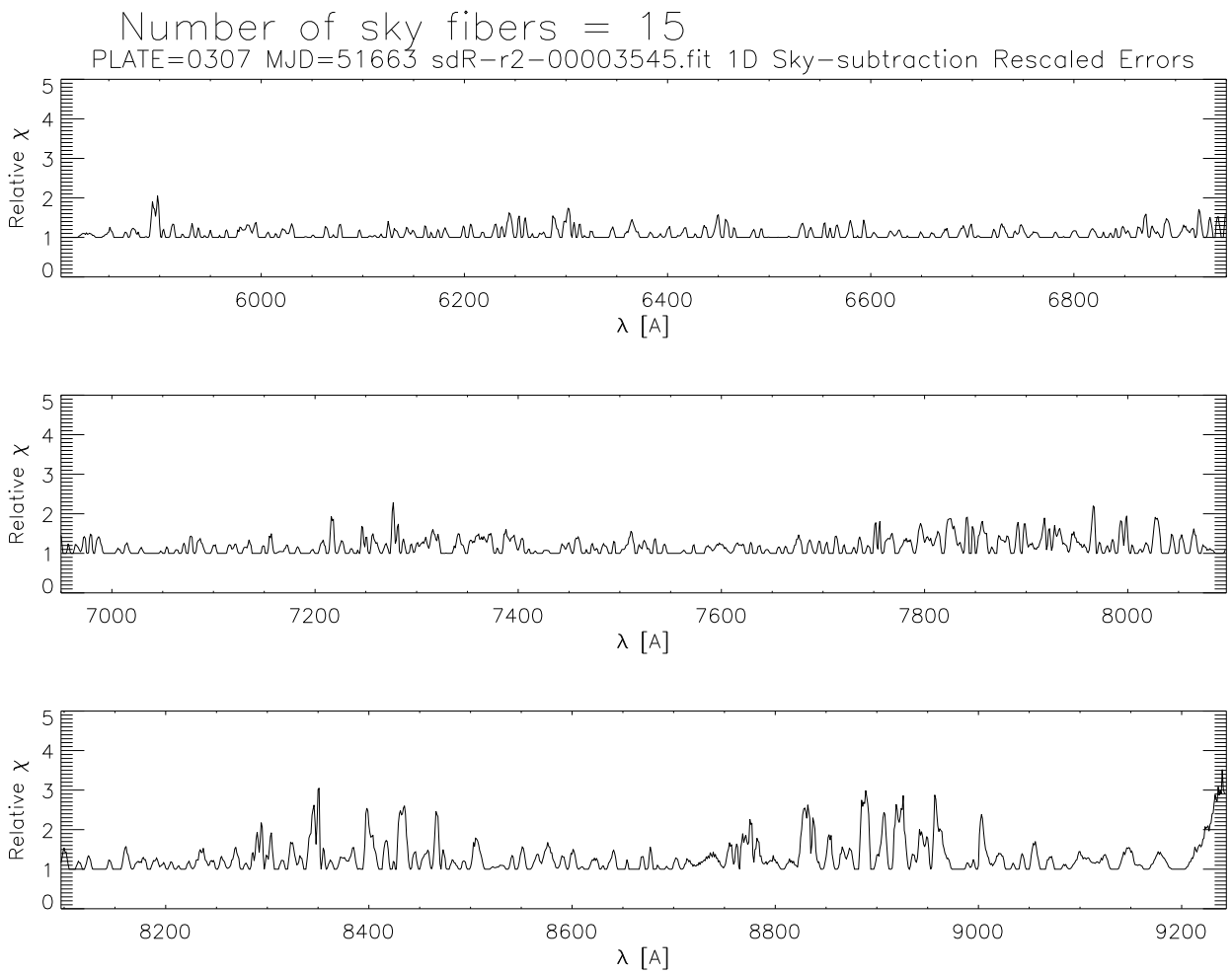

−0.02
−0.04
−0.06
−0.08
−0.10
−0.12
−0.14
−0.16
sky shift, pixels
5000
6000
7000
8000
9000
10000

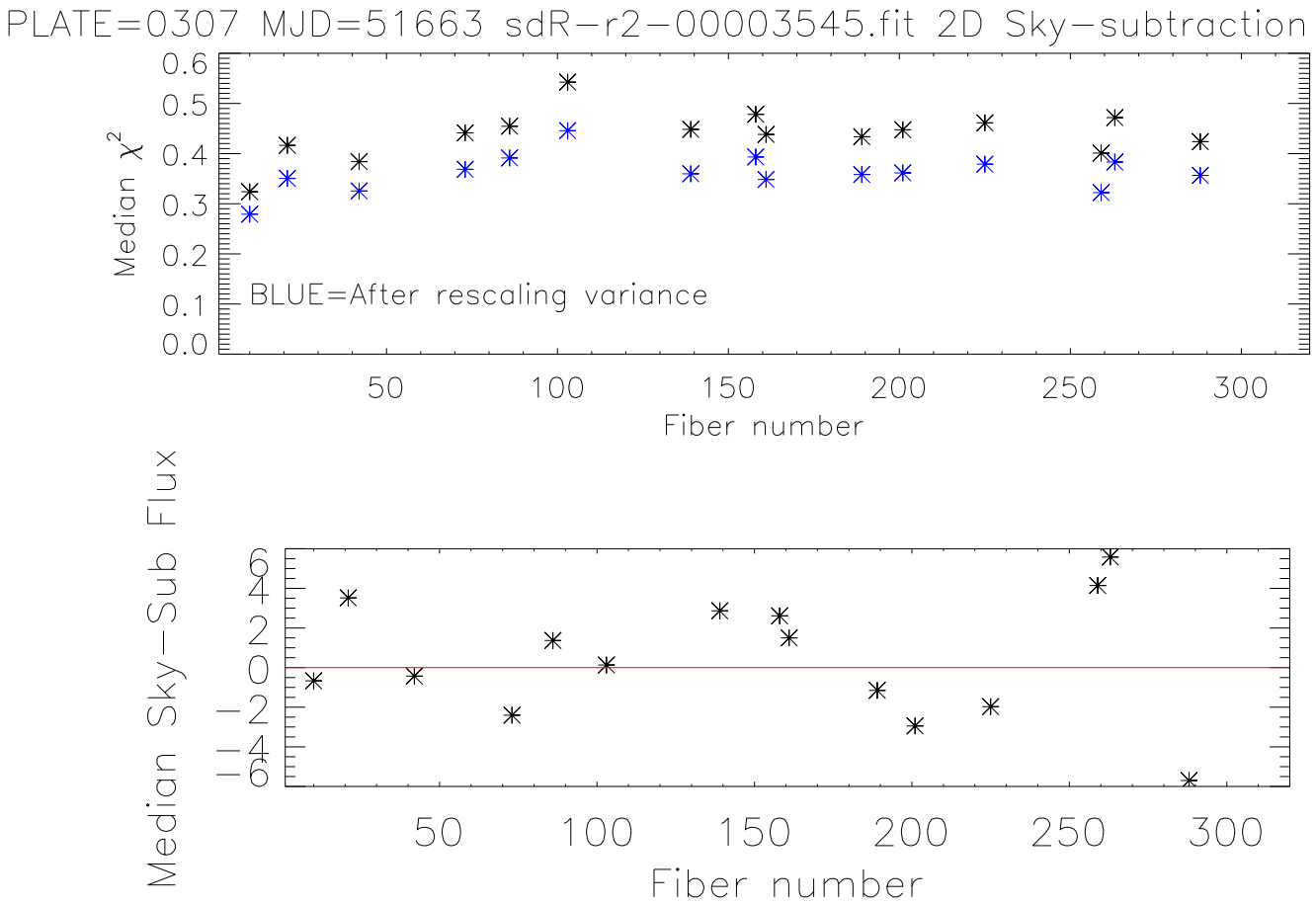

PLATE=0307 MJD=51663 Smooth superflat for sdR-r2-00003545.fit
2.0
1.5
1.0
0.5
0.0
1.004
1.002
1.000
0.998
0.996
0.994
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

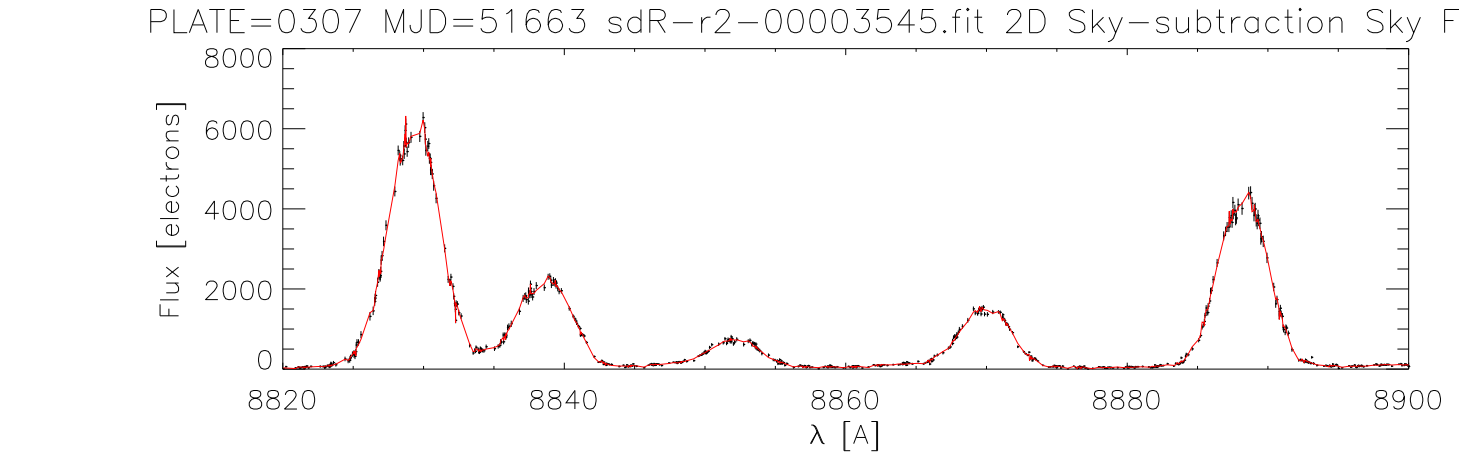

PLATE=0307 MJD=51663 sdR-r2-00003545.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

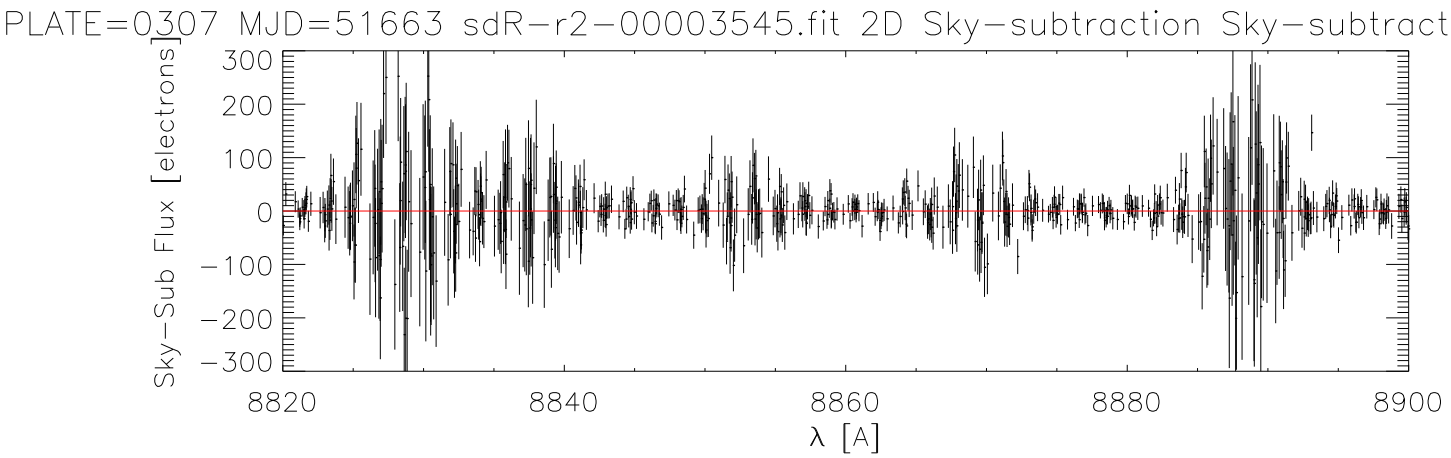

PLATE=0307 MJD=51663 sdR-r2-00003545.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

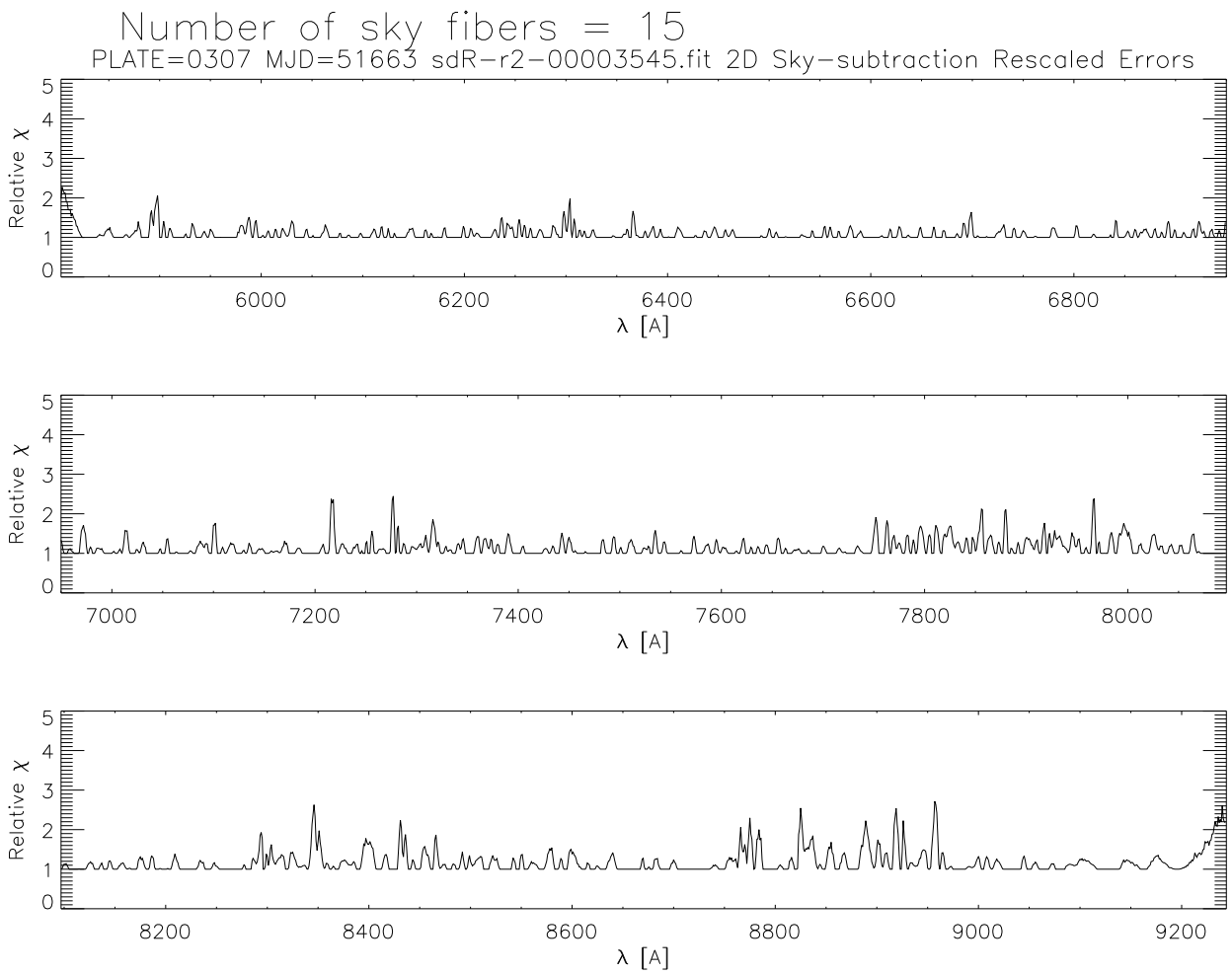

PLATE=0307 MJD=51663 sdR-r2-00003545.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
−200
−400
8820
8840
8860
8880
8900
λ [A]

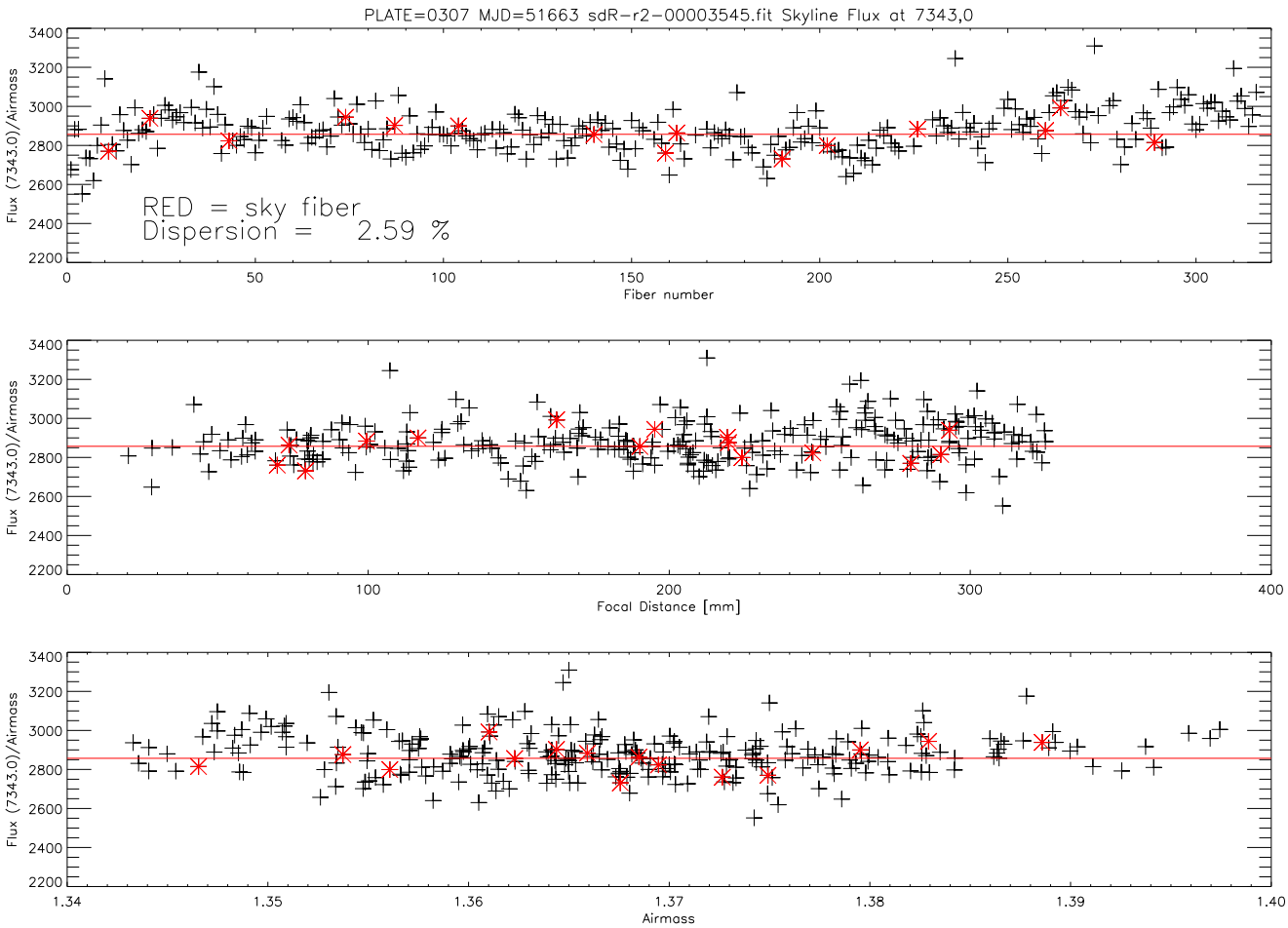

Number of sky fibers = 15
PLATE=0307 MJD=51663 sdR-r2-00003545.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

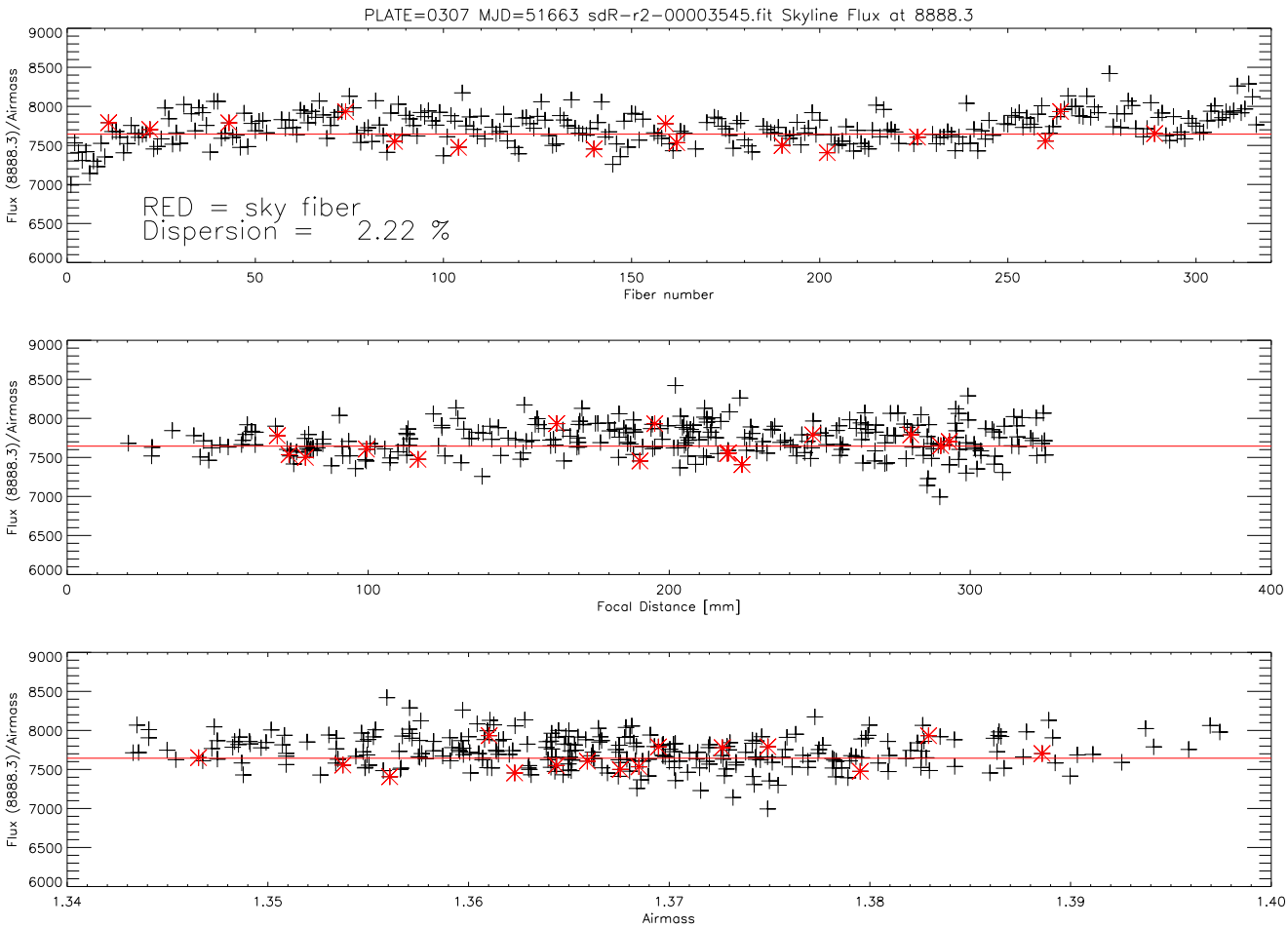

PLATE=0307 MJD=51663 sdR-r2-00003545.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number


PLATE=0307 MJD=51663 sdR-r2-00003545.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]


PLATE=0307 MJD=51663 sdR-r2-00003545.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 = 15
PLATE=0307 MJD=51663 sdR-r2-00003545.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5


PLATE=0307 MJD=51663 sdR-r2-00003545.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.59 %
Fiber number
Focal Distance [mm]
Airmass


PLATE=0307 MJD=51663 sdR-r2-00003545.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.22 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass