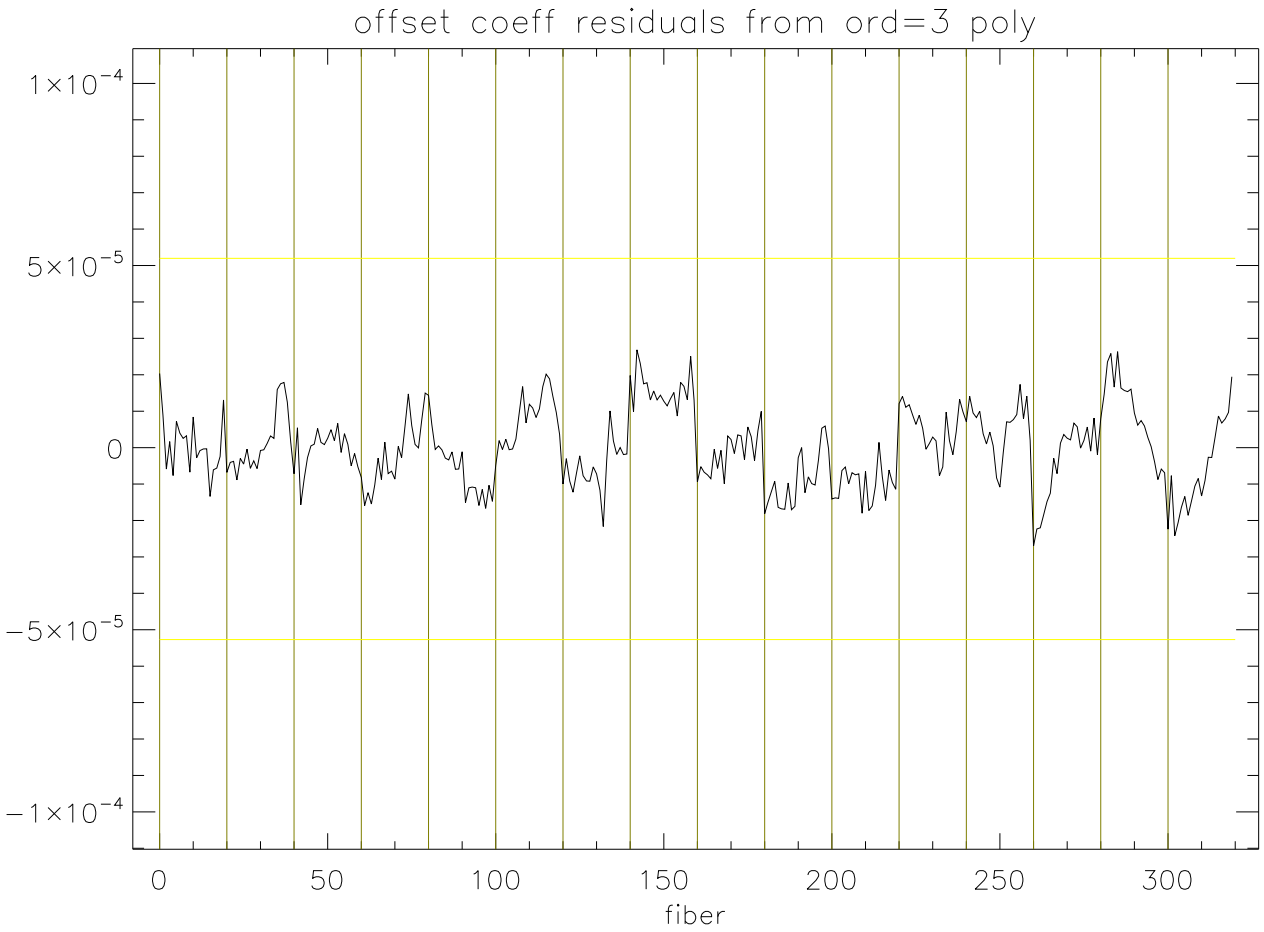
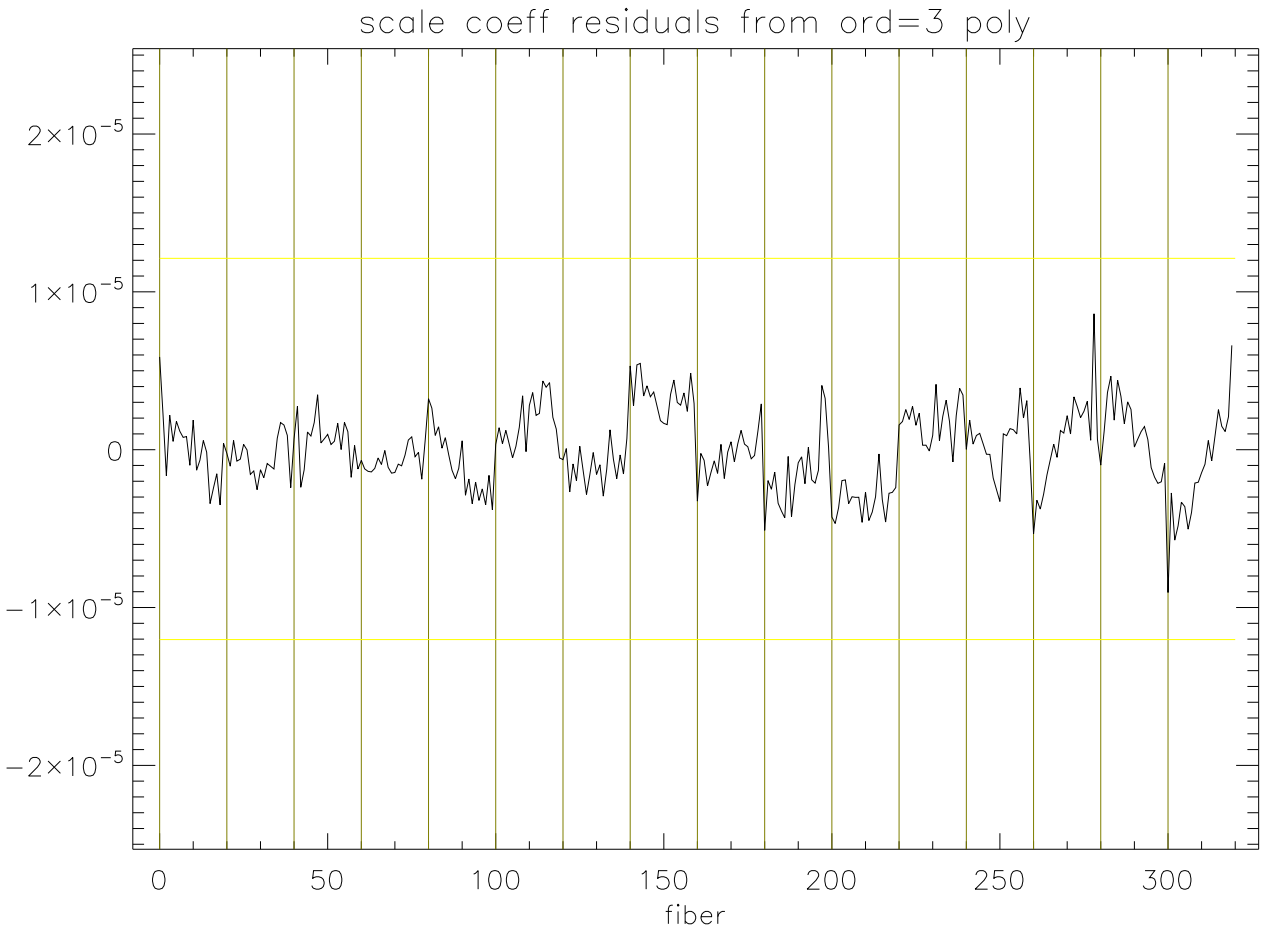
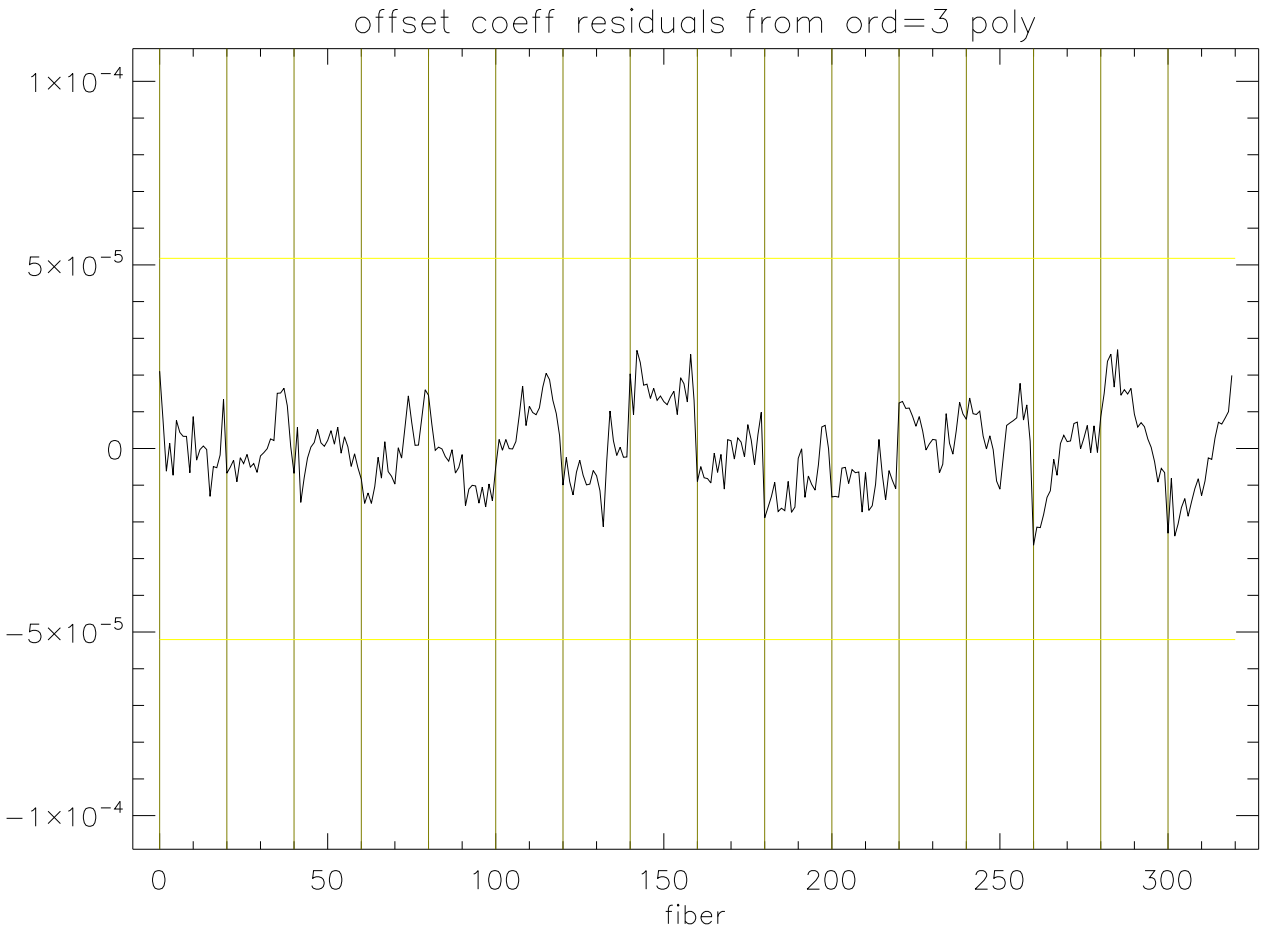
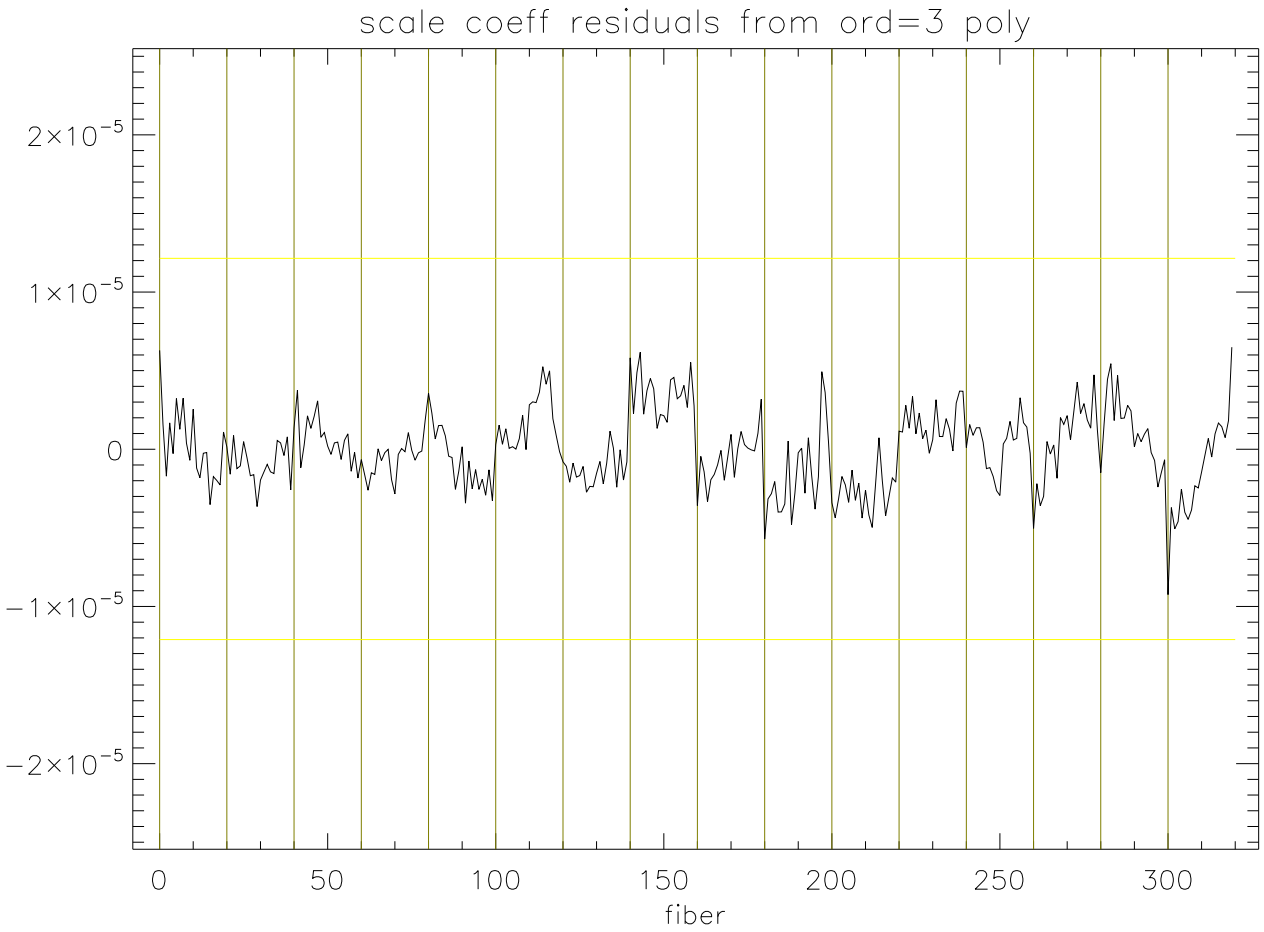
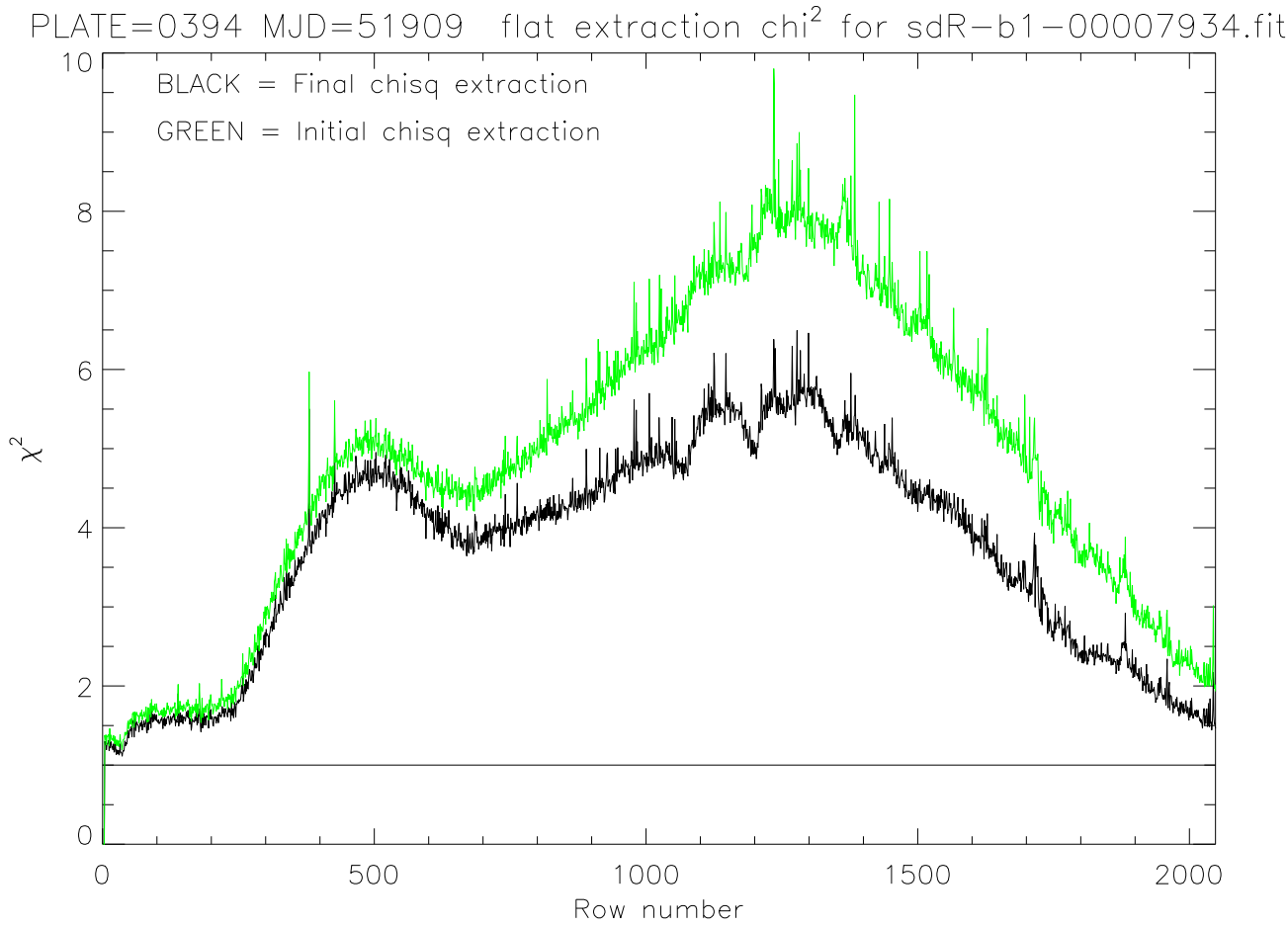
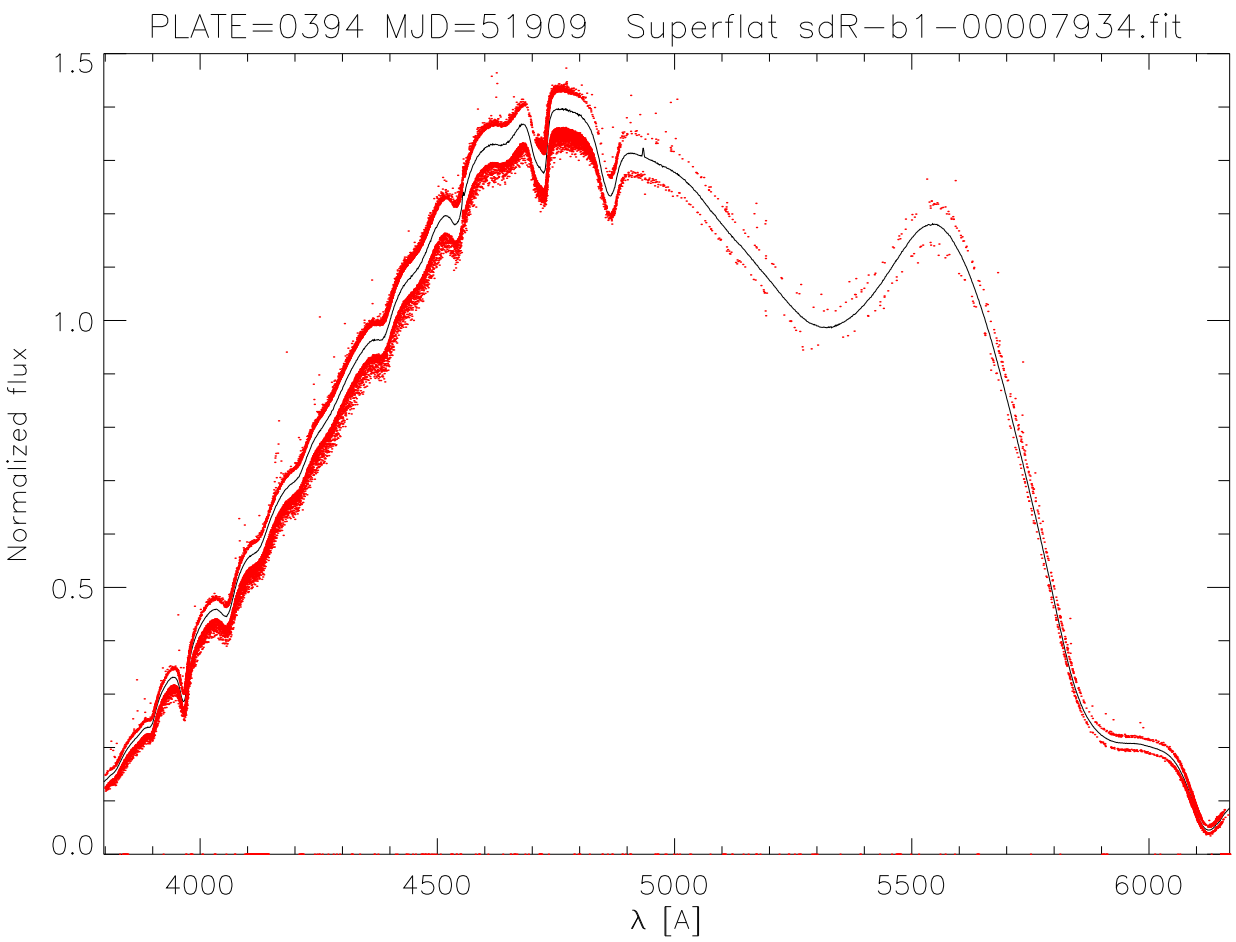

offset coeff residuals from ord=3 poly
1×10⁻⁴
5×10⁻⁵
0
−5×10⁻⁵
−1×10⁻⁴
0
50
100
150
200
250
300
fiber

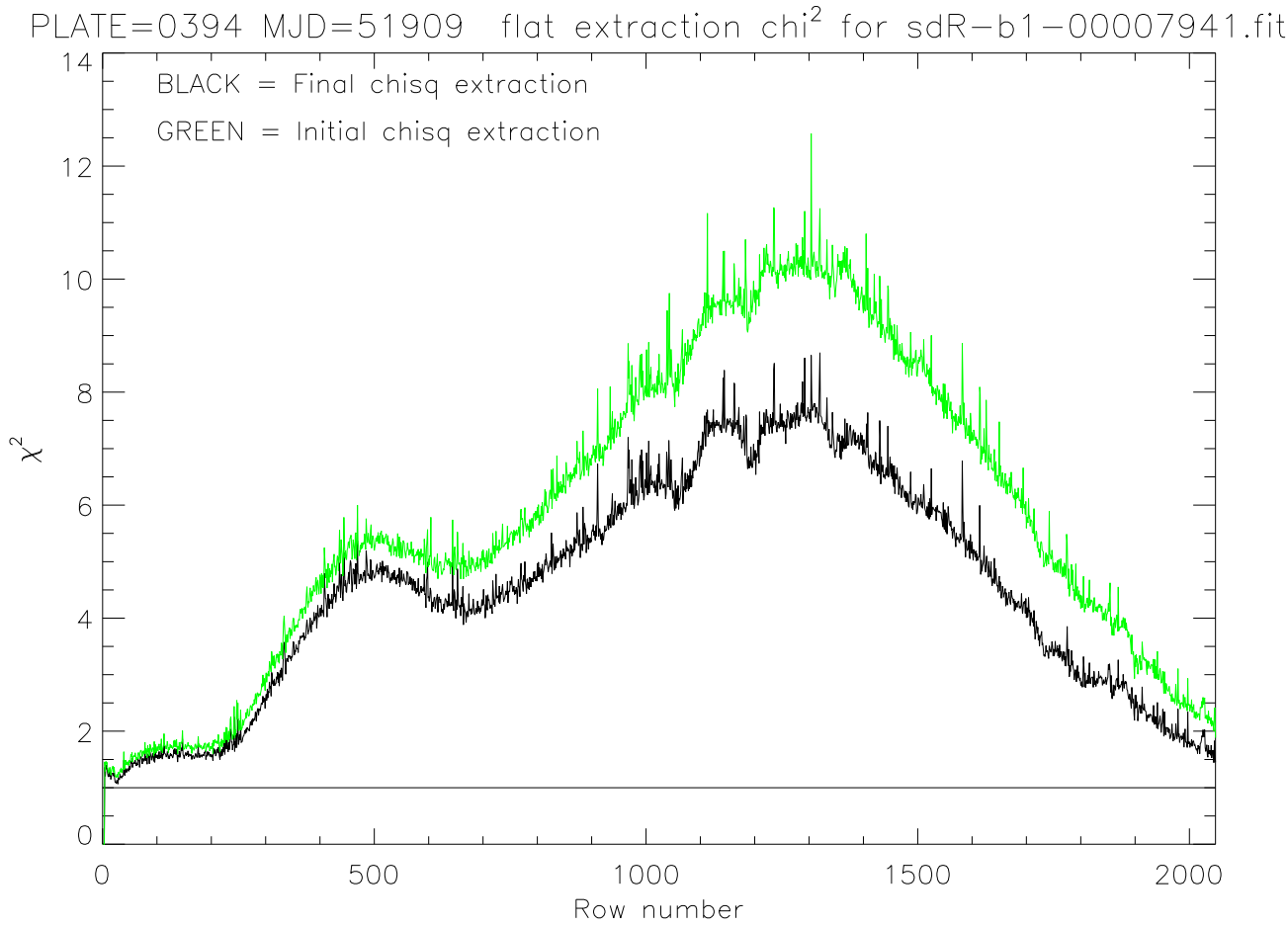

scale coeff residuals from ord=3 poly
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

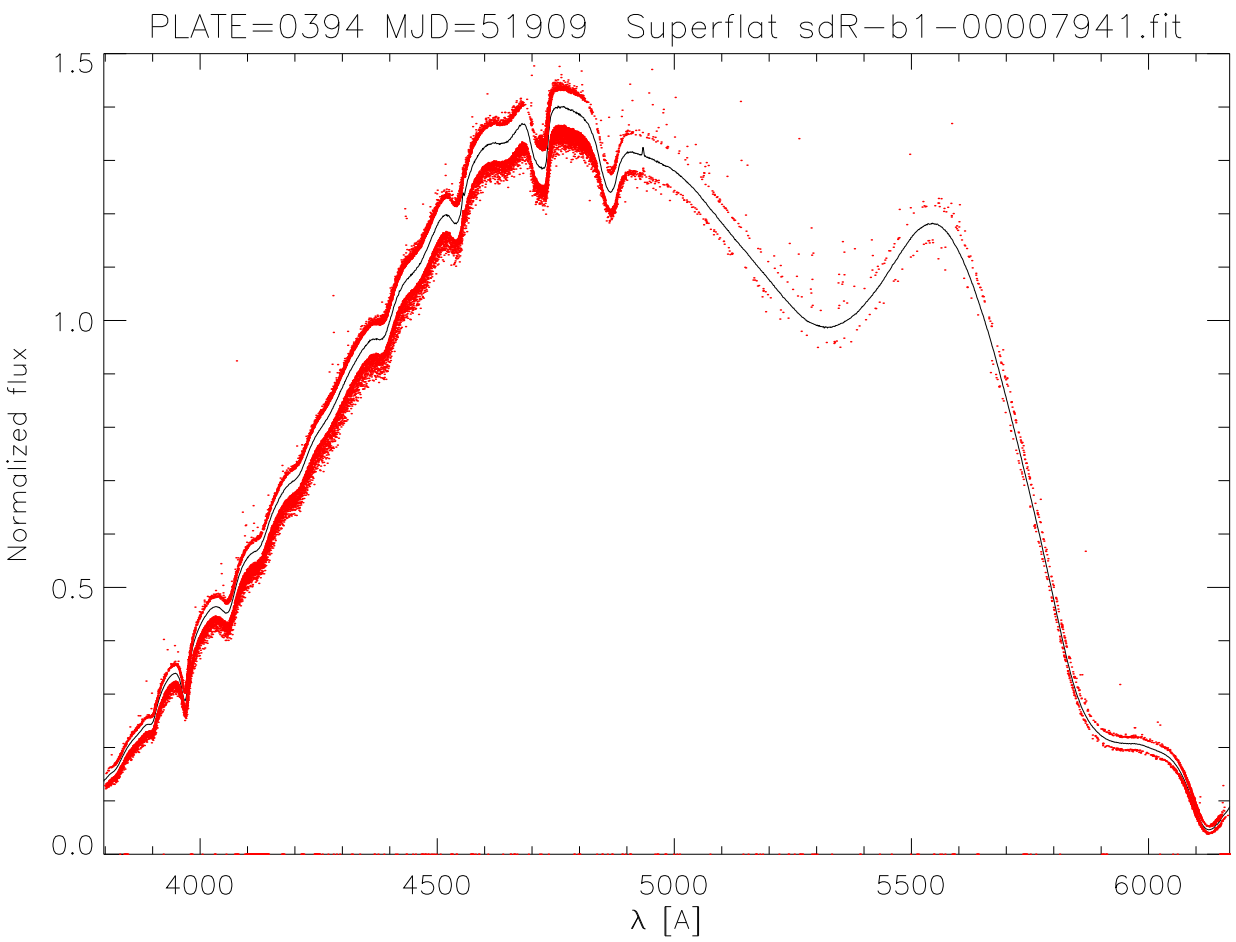

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

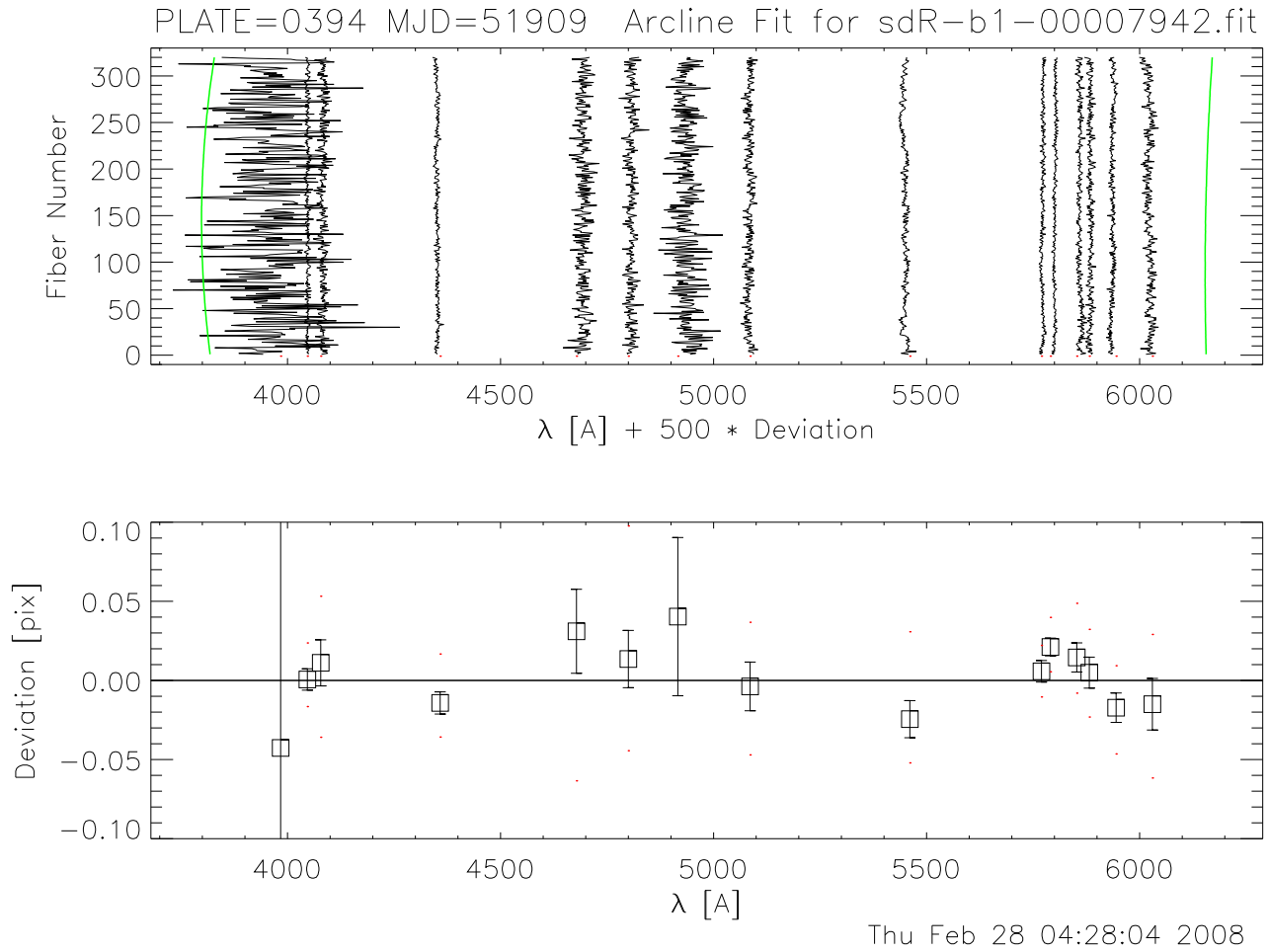

scale coeff residuals from ord=3 poly
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

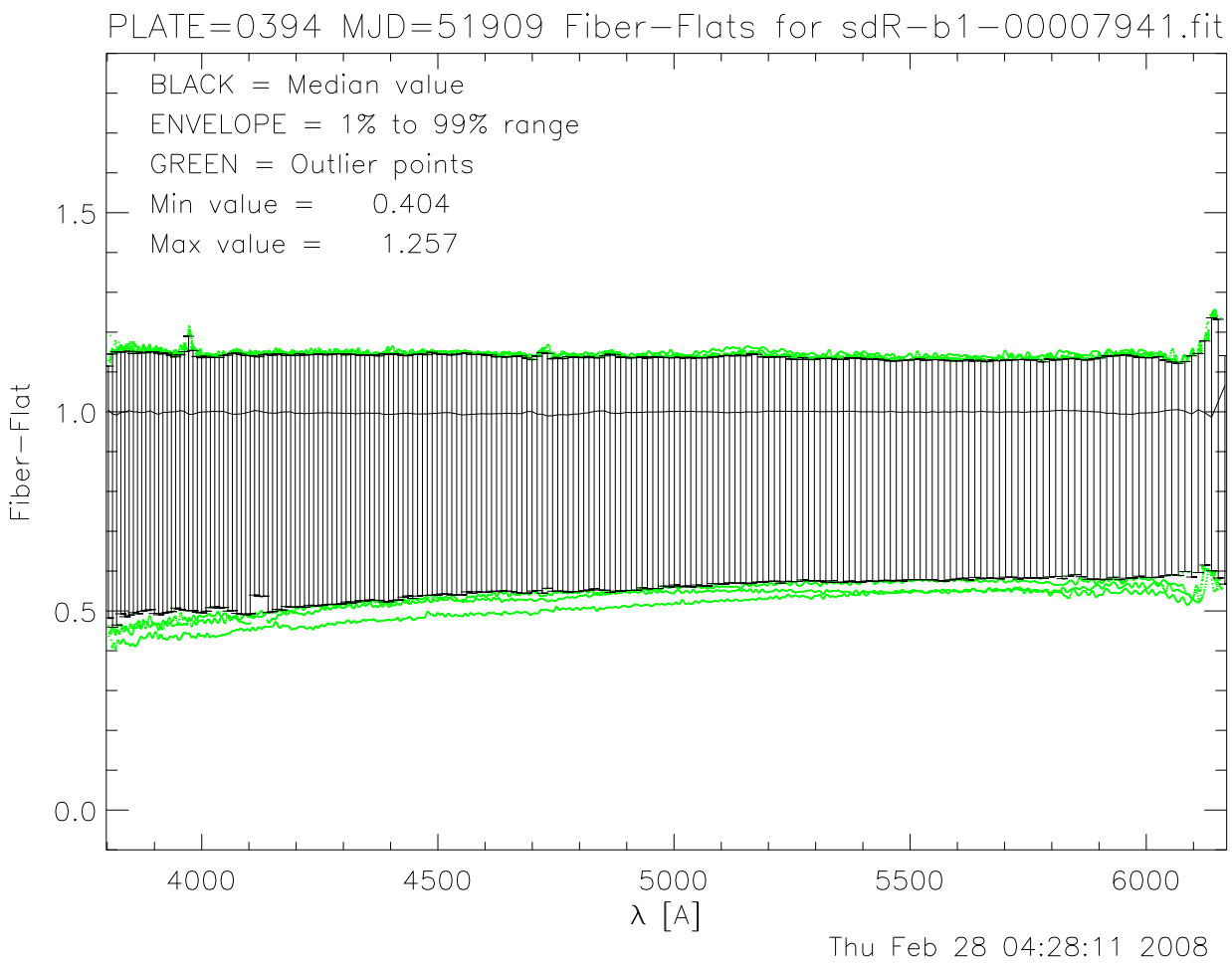

PLATE=0394 MJD=51909 flat extraction chi^2 for sdR−b1−00007934.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

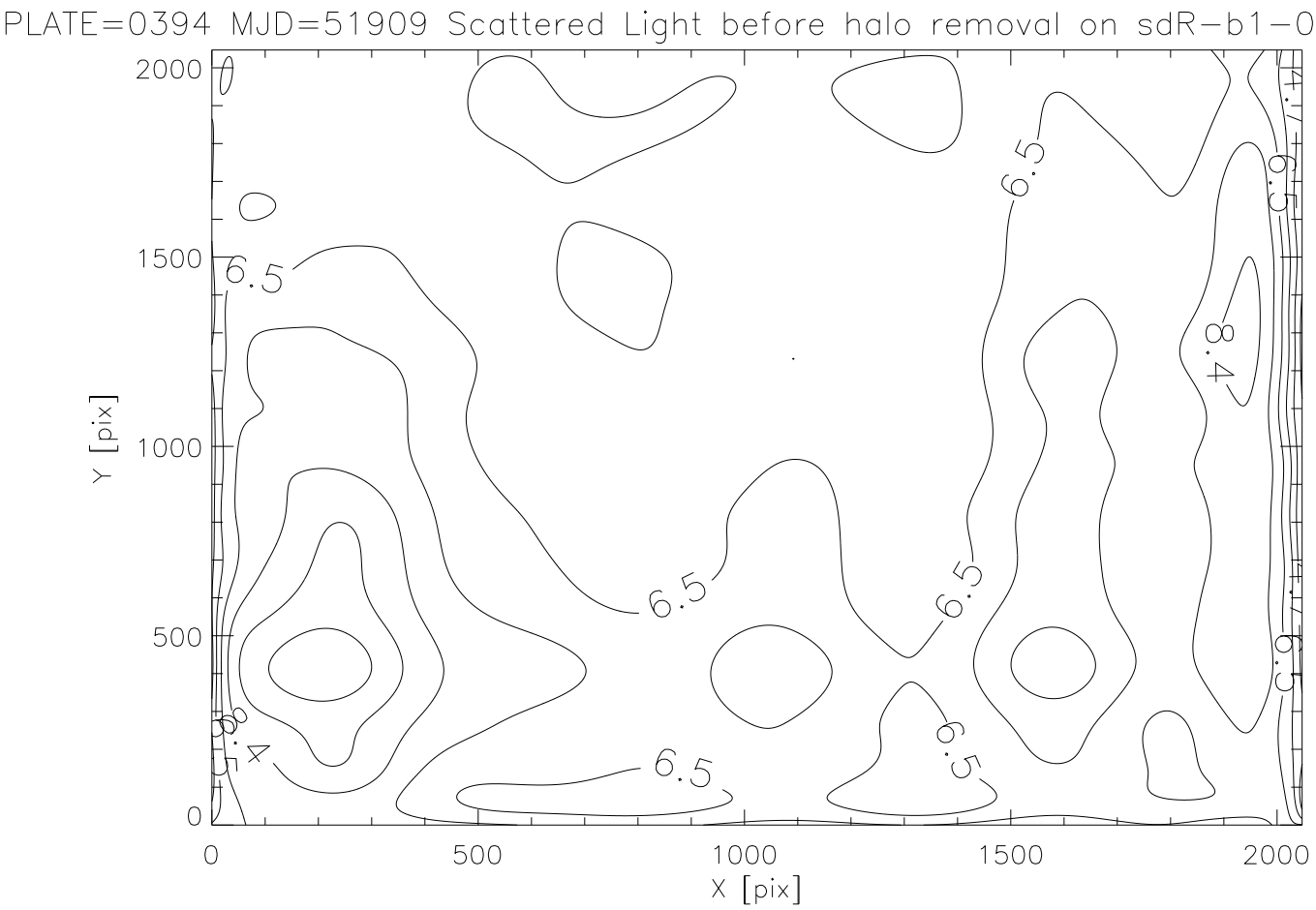

PLATE=0394 MJD=51909 Superflat sdR-b1-00007934.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

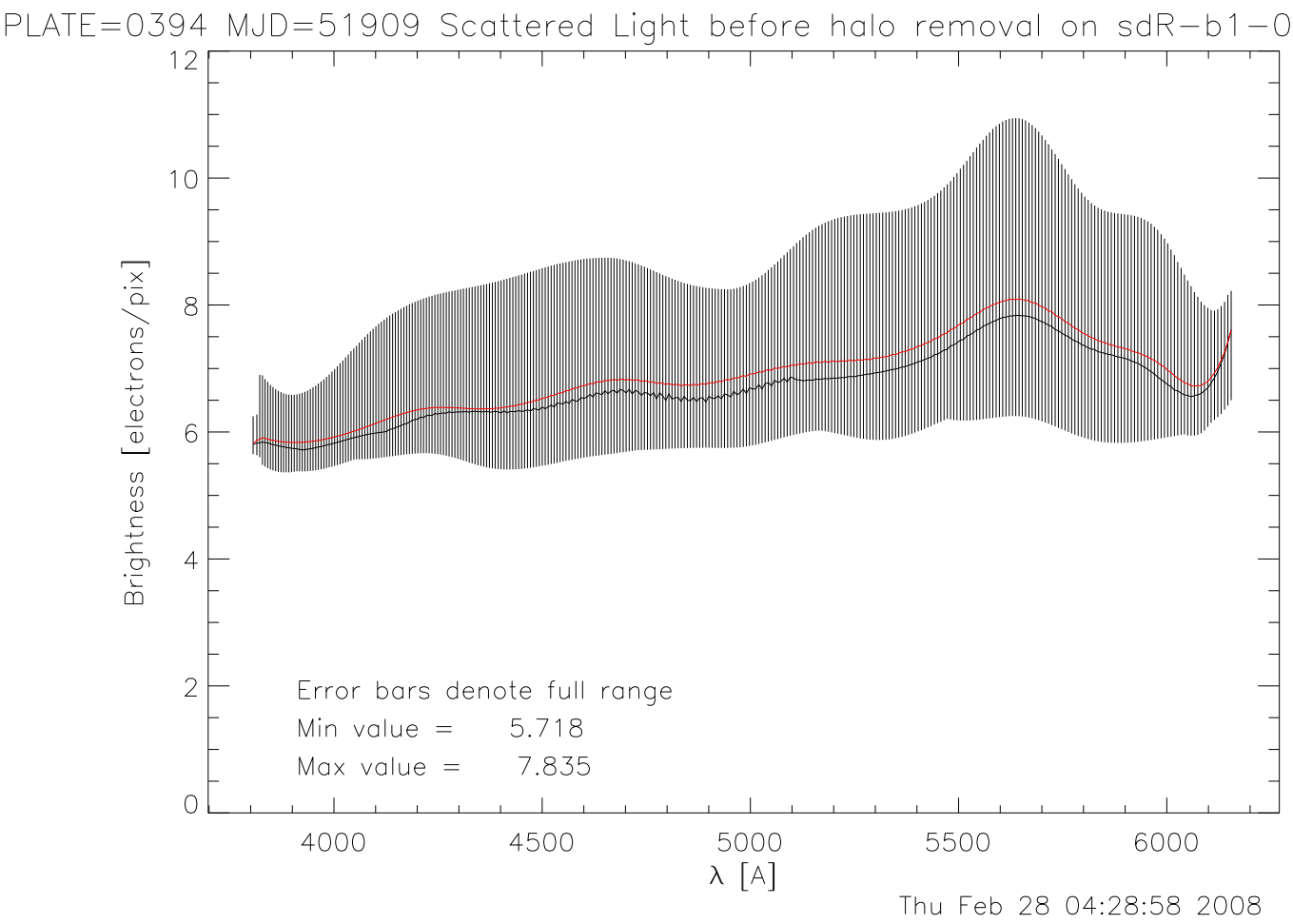

PLATE=0394 MJD=51909 flat extraction chi^2 for sdR-b1-00007941.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
14
0
500
1000
1500
2000

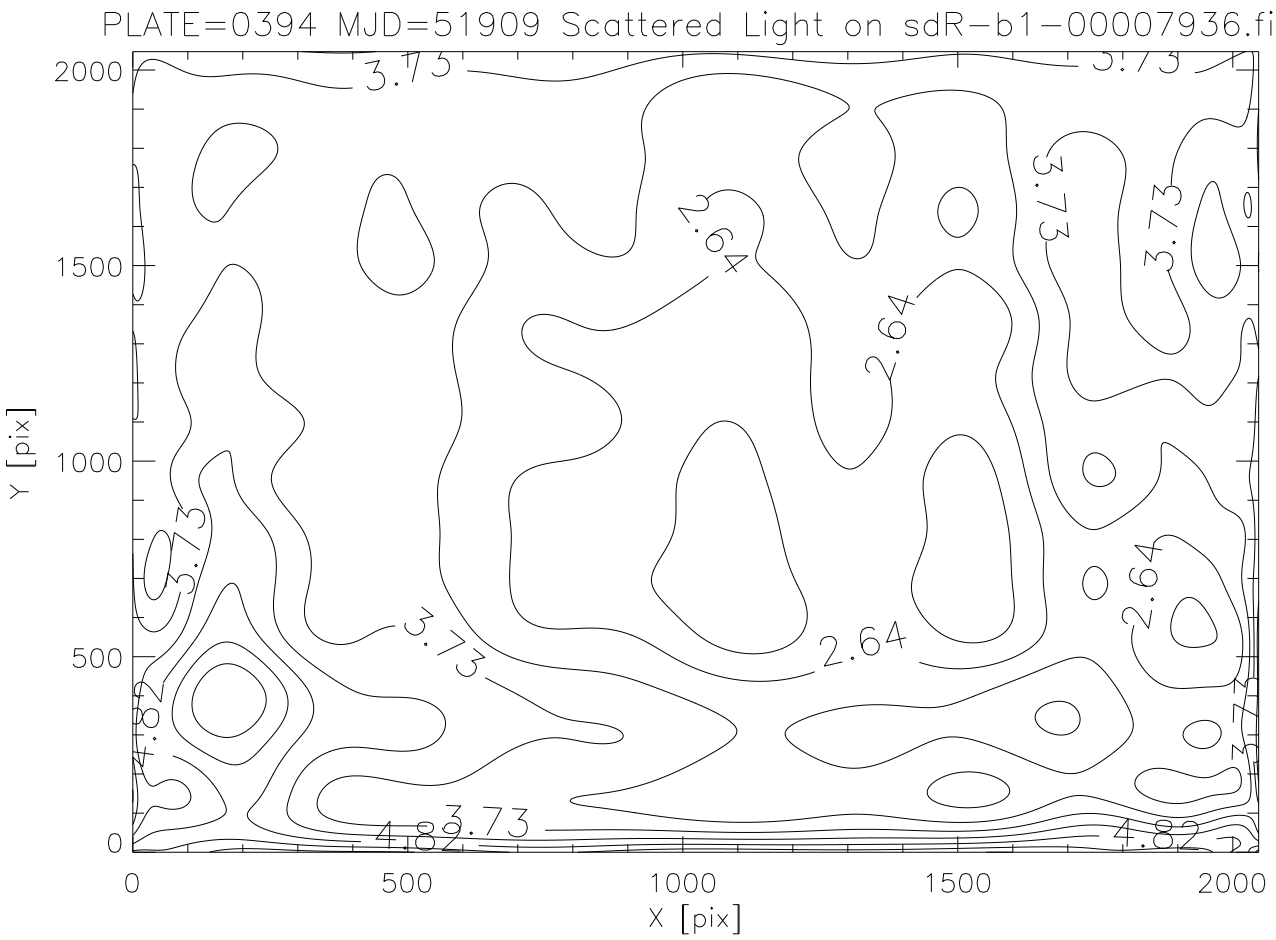

PLATE=0394 MJD=51909 Superflat sdR-b1-00007941.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

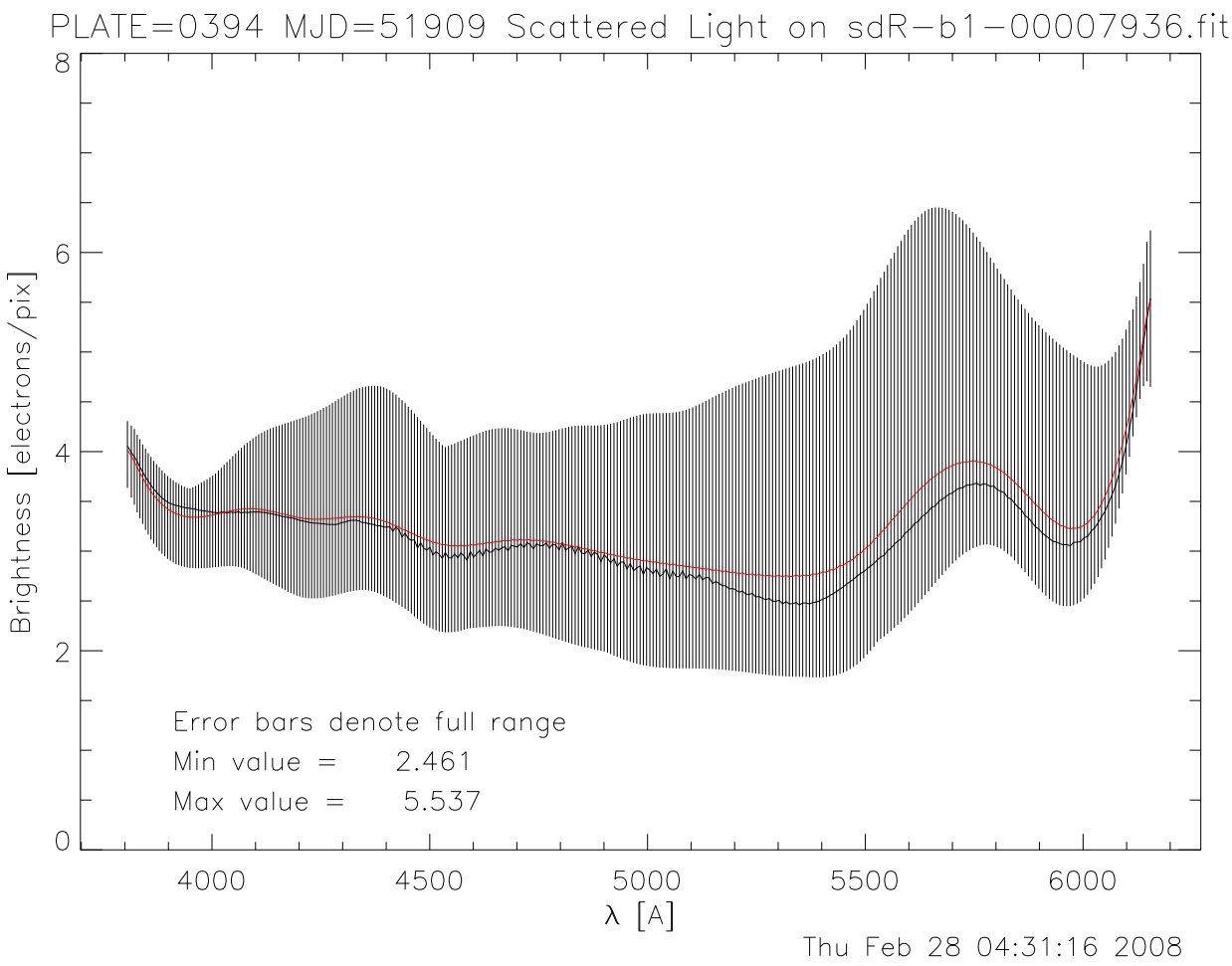

PLATE=0394 MJD=51909 Arcline Fit for sdR-b1-00007942.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Thu Feb 28 04:28:04 2008

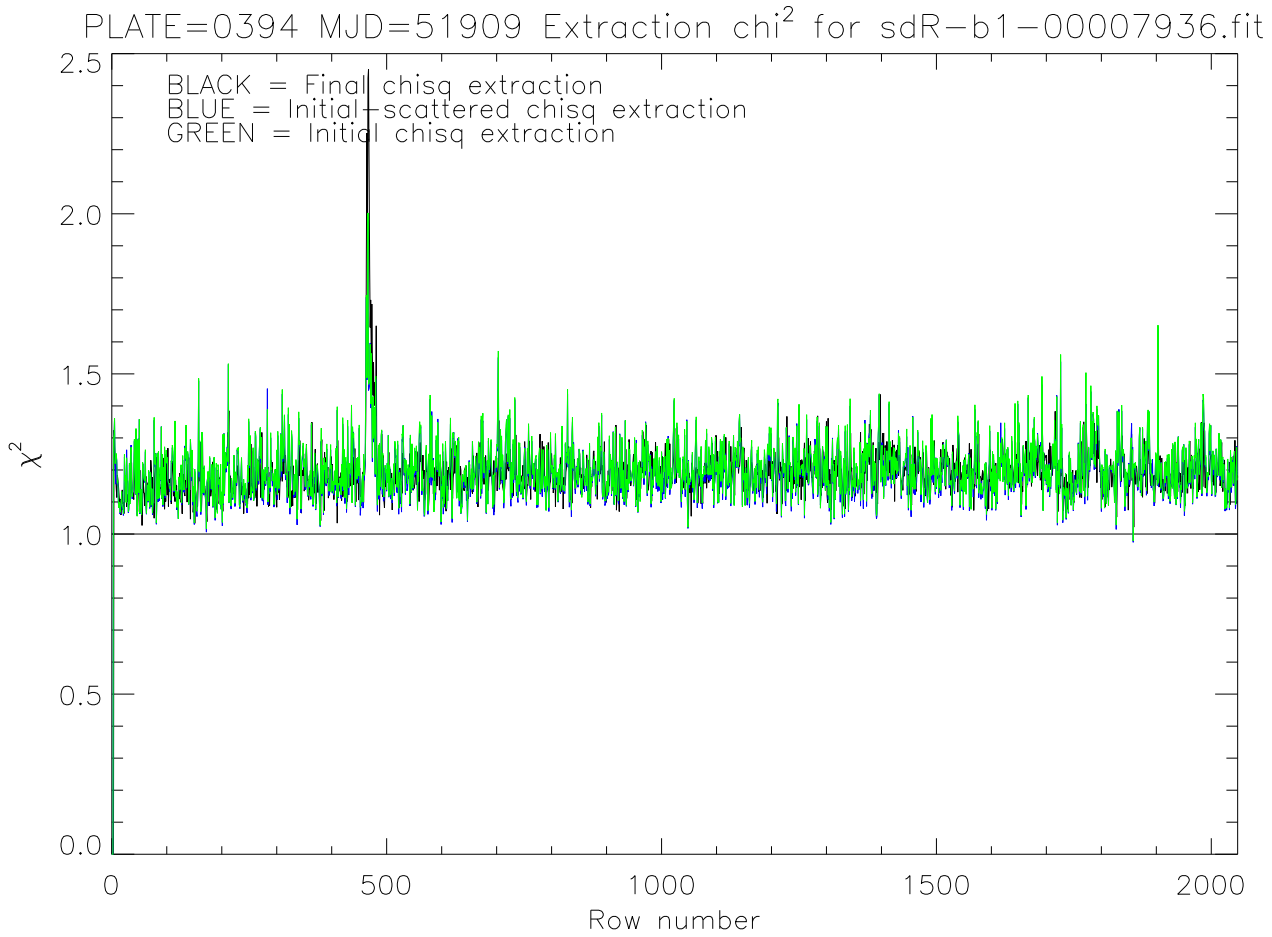

PLATE=0394 MJD=51909 Fiber-Flats for sdR-b1-00007941.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.404
Max value = 1.257
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Thu Feb 28 04:28:11 2008

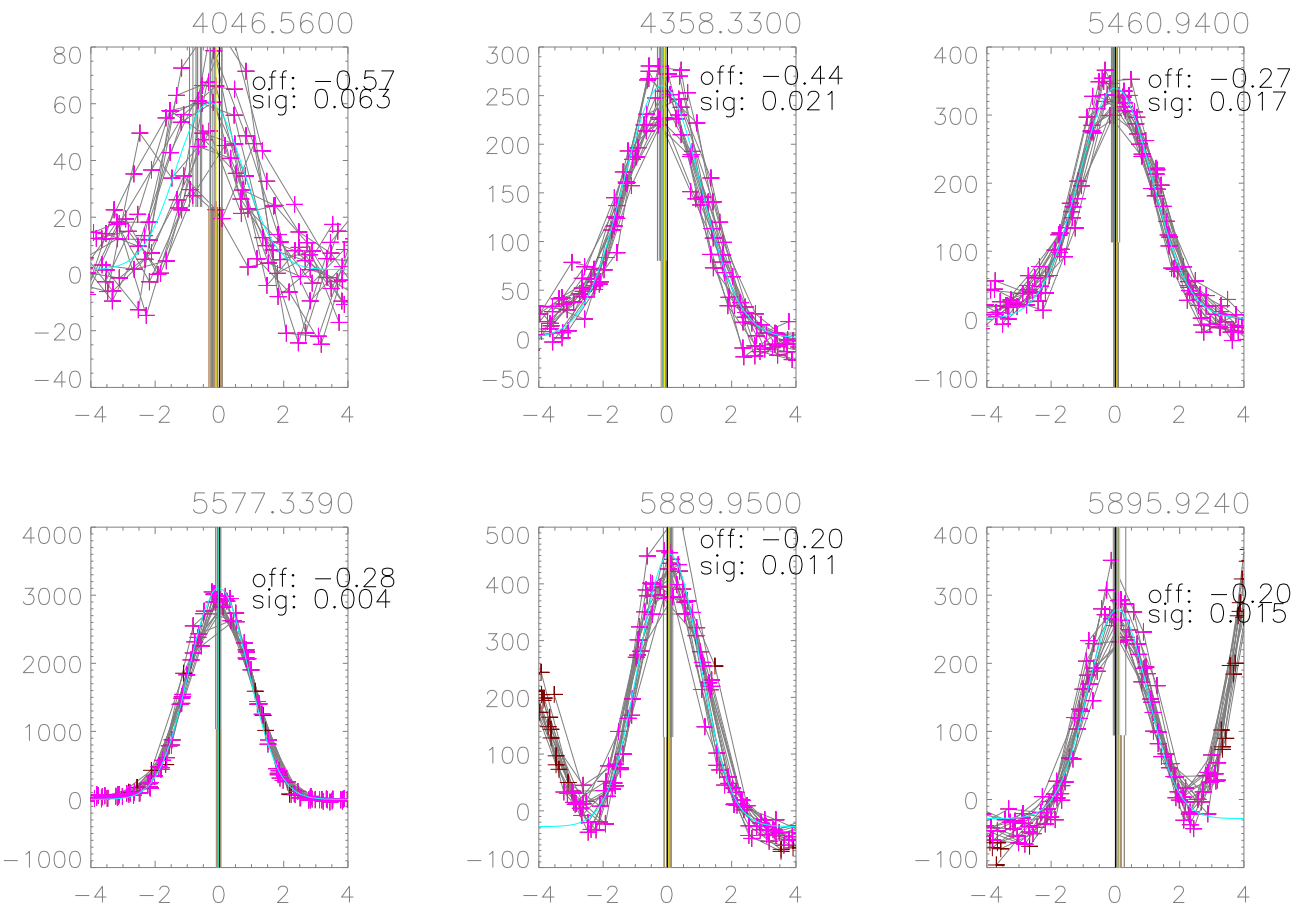

PLATE=0394 MJD=51909 Scattered Light before halo removal on sdR-b1-00007936.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
6.5
6.5
6.5
6.5
6.5
6.5
8.4
8.4
8.4

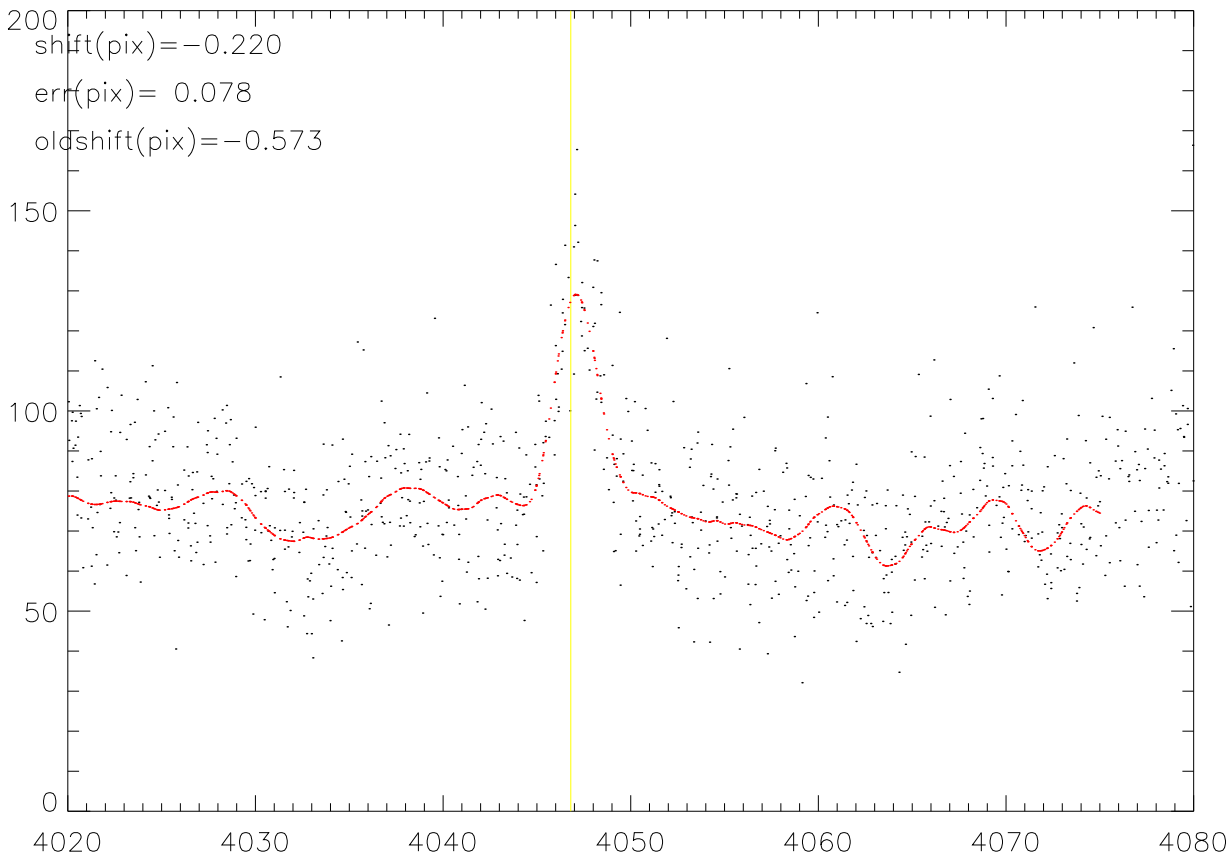

PLATE=0394 MJD=51909 Scattered Light before halo removal on sdR-b1-00007936.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.718
Max value = 7.835
Thu Feb 28 04:28:58 2008

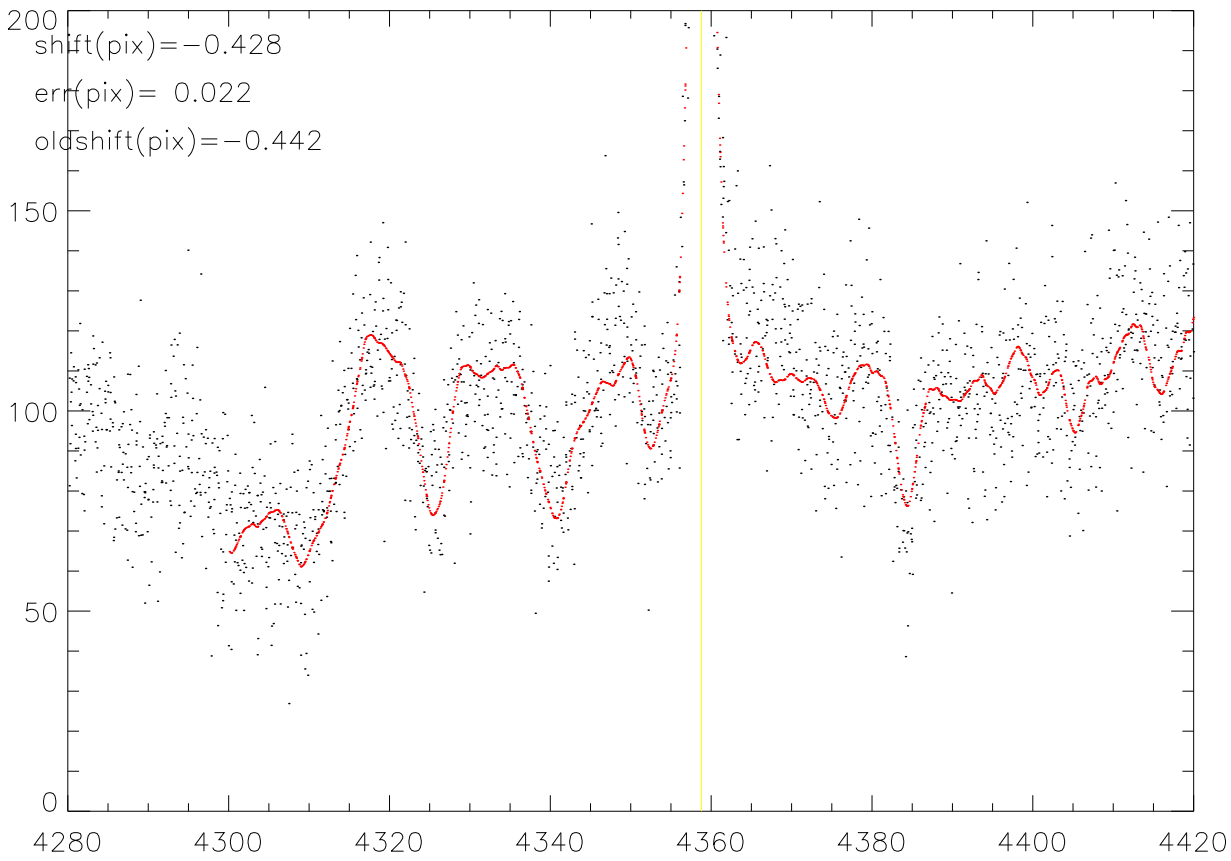

PLATE=0394 MJD=51909 Scattered Light on sdR-b1-00007936.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
3.73
2.64
4.82

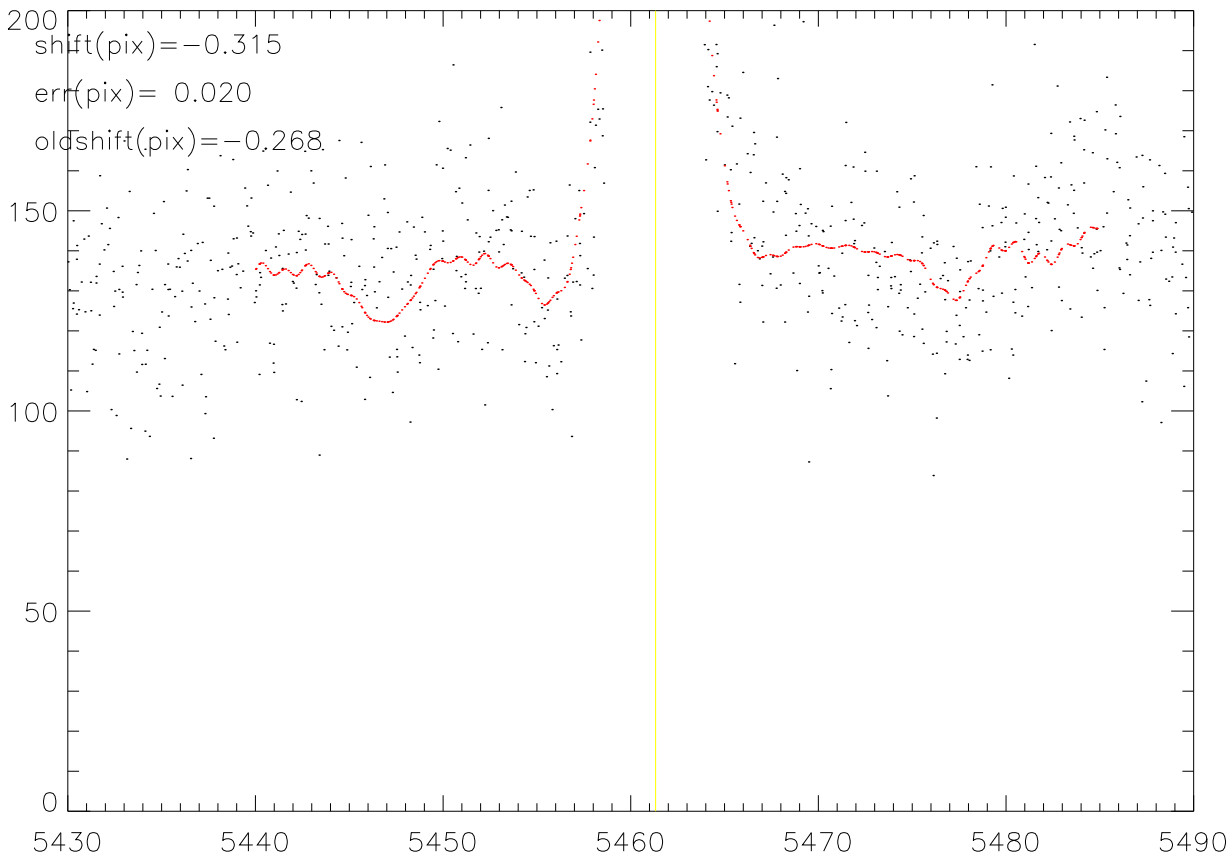

PLATE=0394 MJD=51909 Scattered Light on sdR-b1-00007936.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 2.461
Max value = 5.537
Thu Feb 28 04:31:16 2008

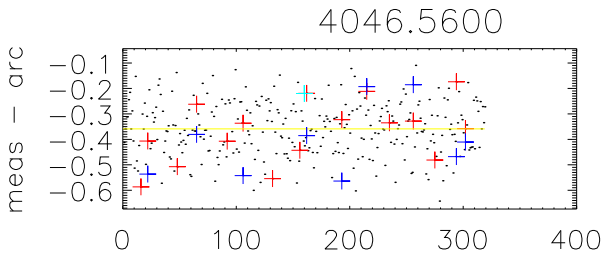

PLATE=0394 MJD=51909 Extraction chi^2 for sdR-b1-00007936.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

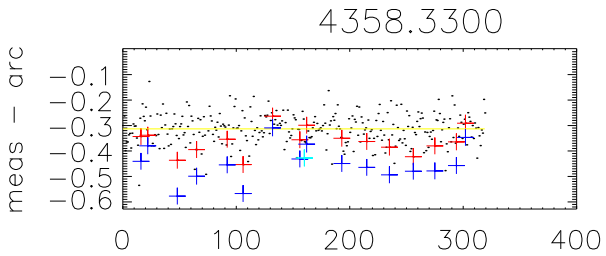

4046.5600
off: −0.57
sig: 0.063
4358.3300
off: −0.44
sig: 0.021
5460.9400
off: −0.27
sig: 0.017
5577.3390
off: −0.28
sig: 0.004
5889.9500
off: −0.20
sig: 0.011
5895.9240
off: −0.20
sig: 0.015

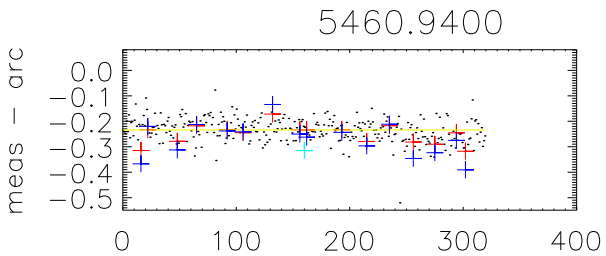

shift(pix)=−0.220
err(pix)= 0.078
oldshift(pix)=−0.573
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

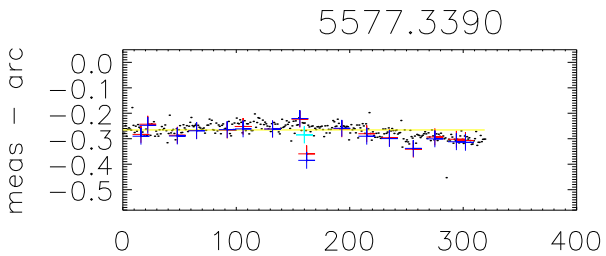

shift(pix)=−0.428
err(pix)= 0.022
oldshift(pix)=−0.442
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

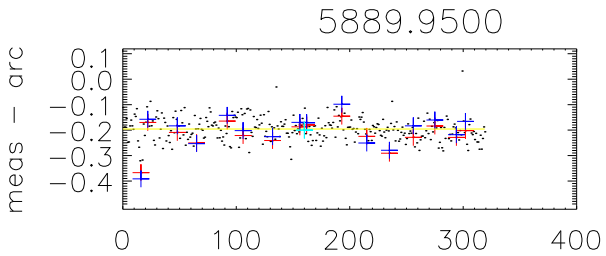

shift(pix)=−0.315
err(pix)= 0.020
oldshift(pix)=−0.268
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

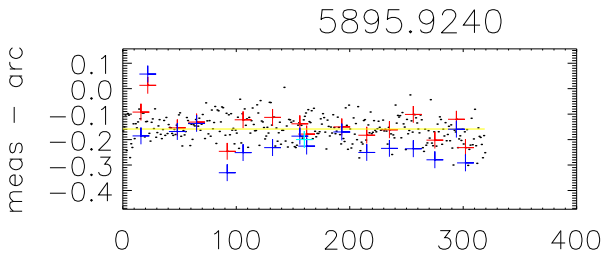

4046.5600
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

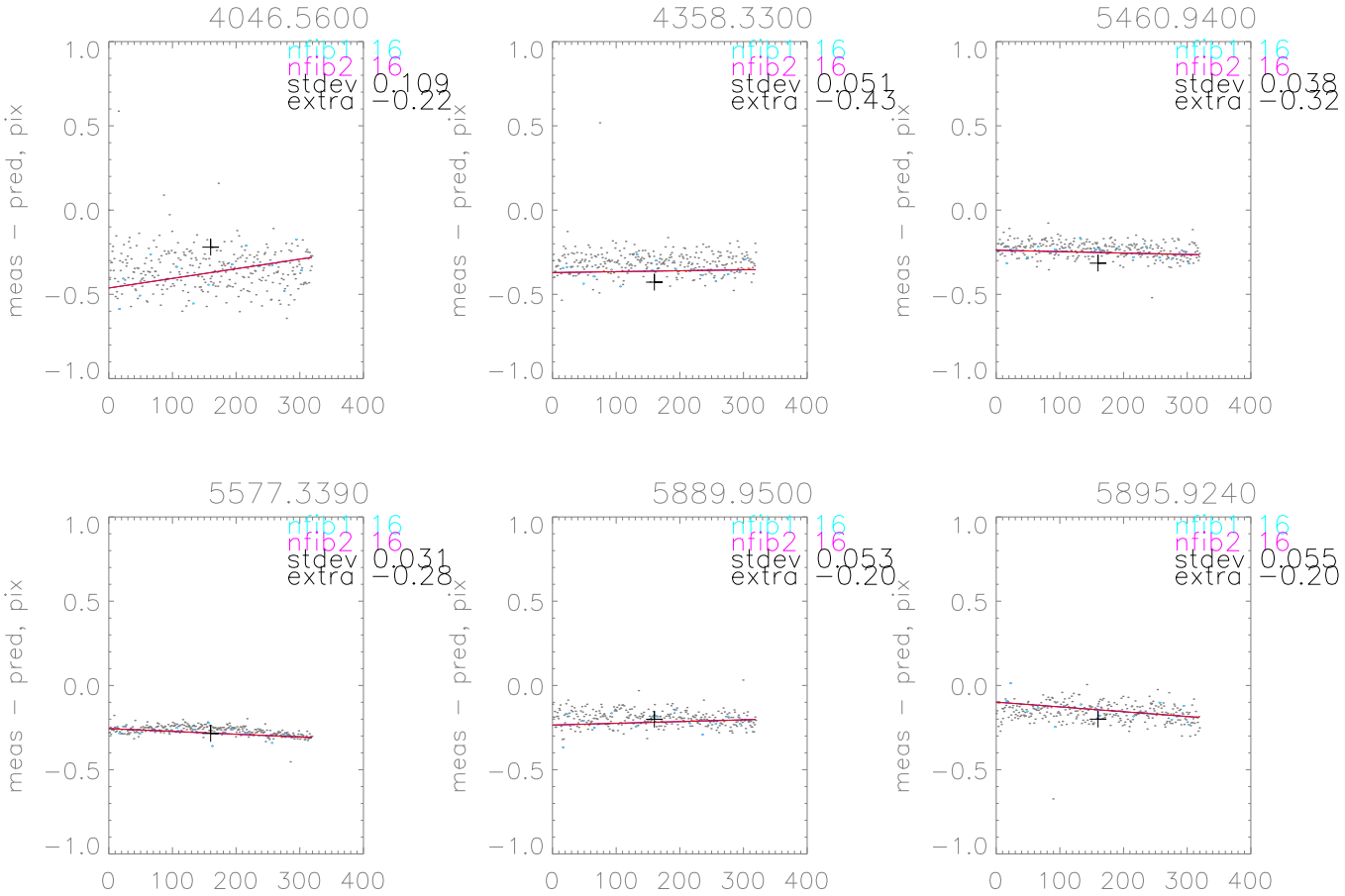

4358.3300
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

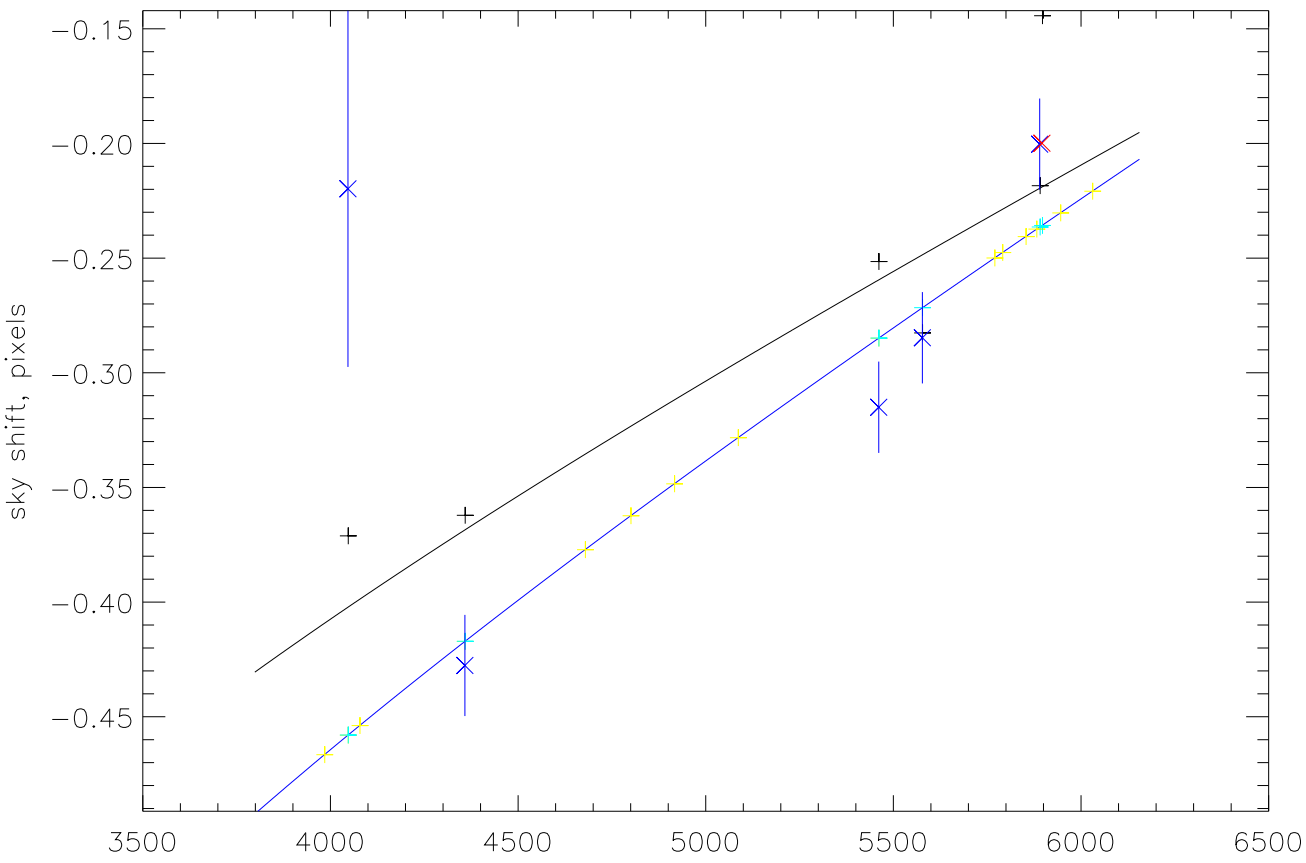

5460.9400
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400


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

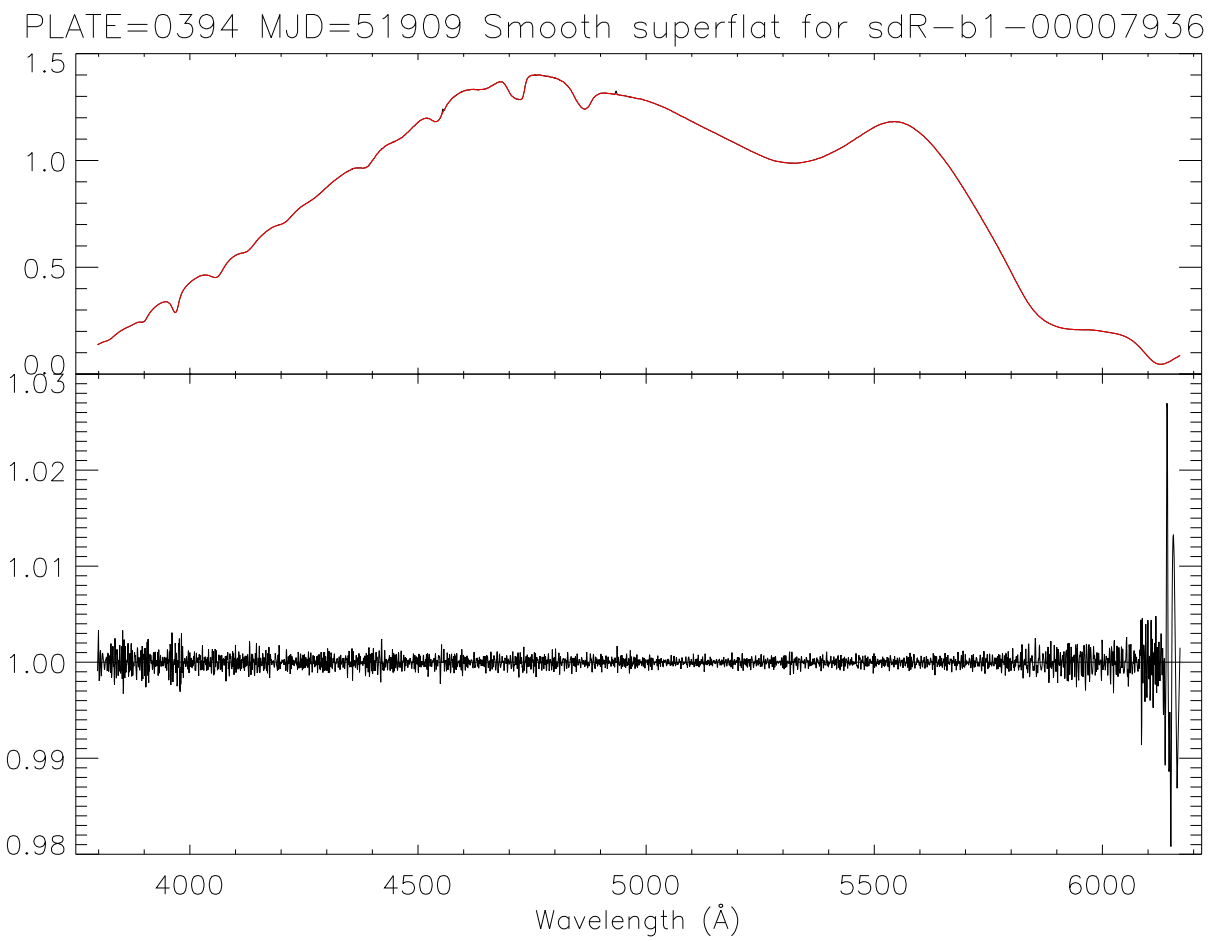

5889.9500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

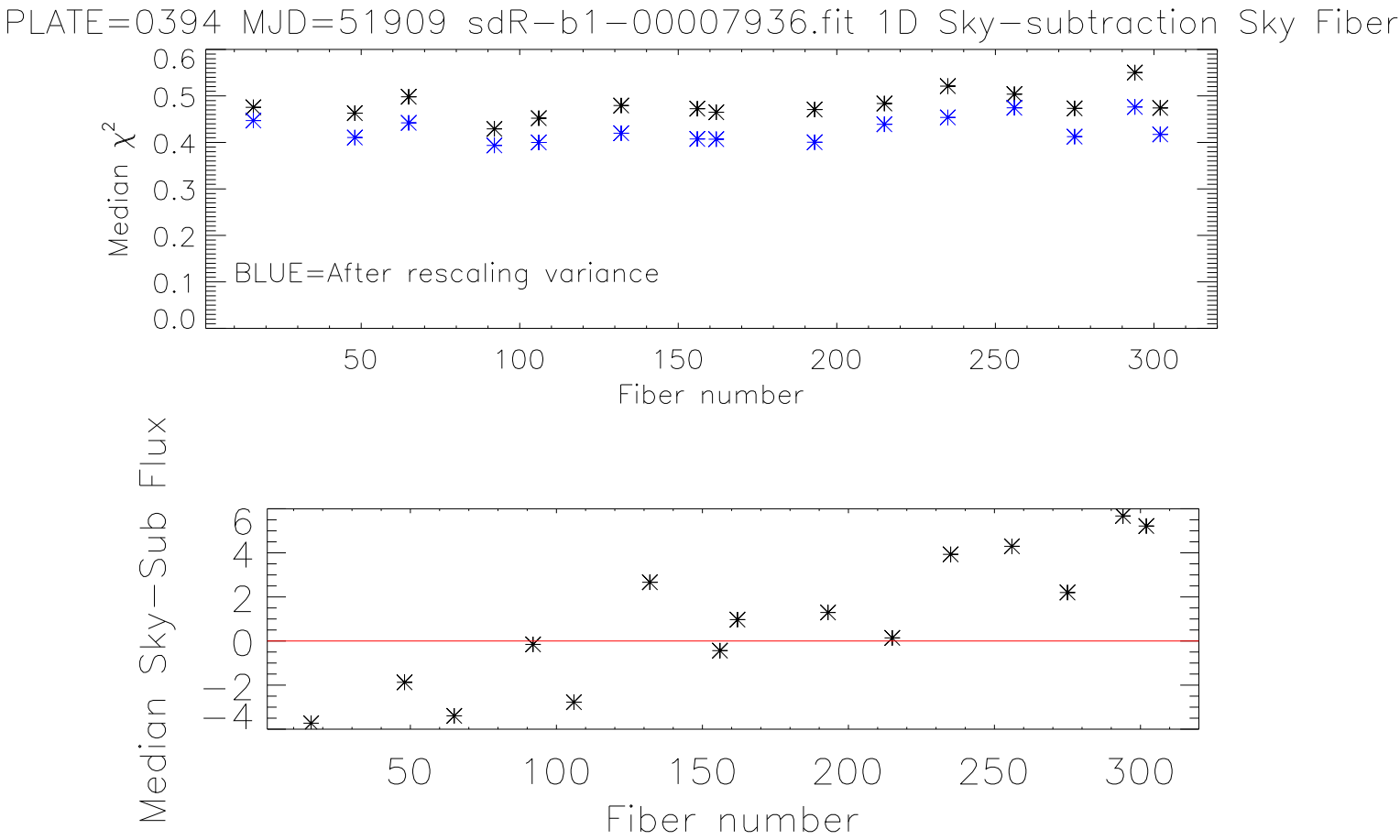

5895.9240
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

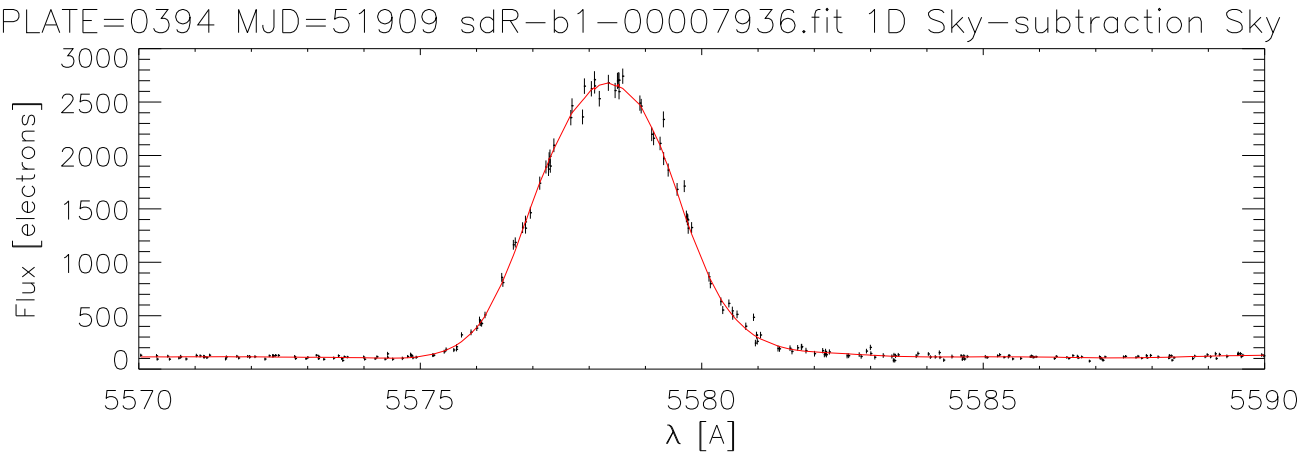

4046.5600
nfib1 16
nfib2 16
stdev 0.109
extra −0.22
4358.3300
nfib1 16
nfib2 16
stdev 0.051
extra −0.43
5460.9400
nfib1 16
nfib2 16
stdev 0.038
extra −0.32
5577.3390
nfib1 16
nfib2 16
stdev 0.031
extra −0.28
5889.9500
nfib1 16
nfib2 16
stdev 0.053
extra −0.20
5895.9240
nfib1 16
nfib2 16
stdev 0.055
extra −0.20
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

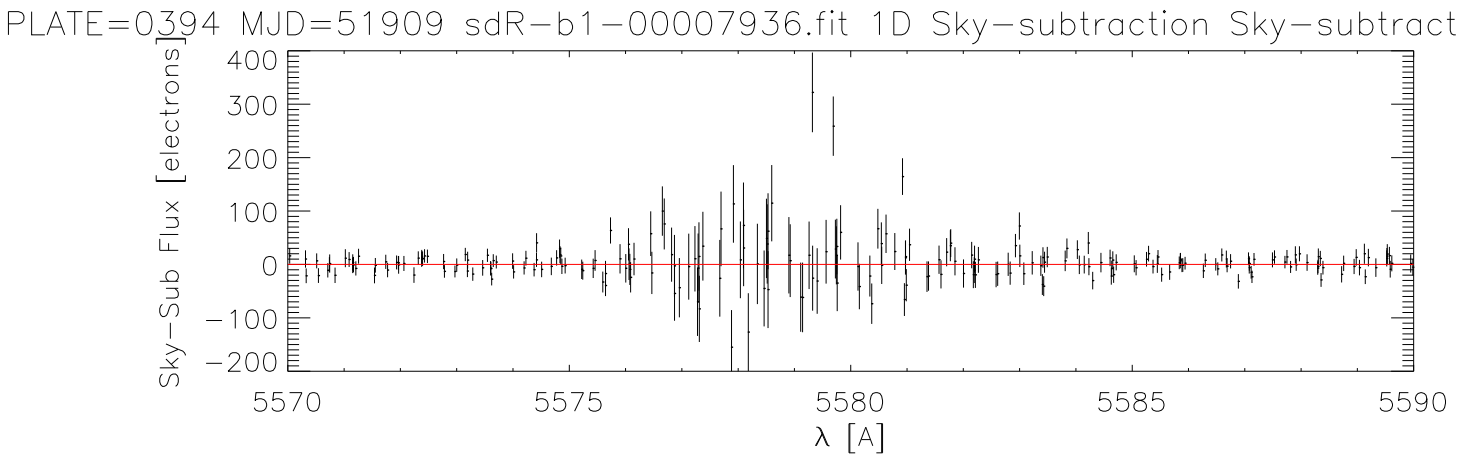

−0.15
−0.20
−0.25
−0.30
−0.35
−0.40
−0.45
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

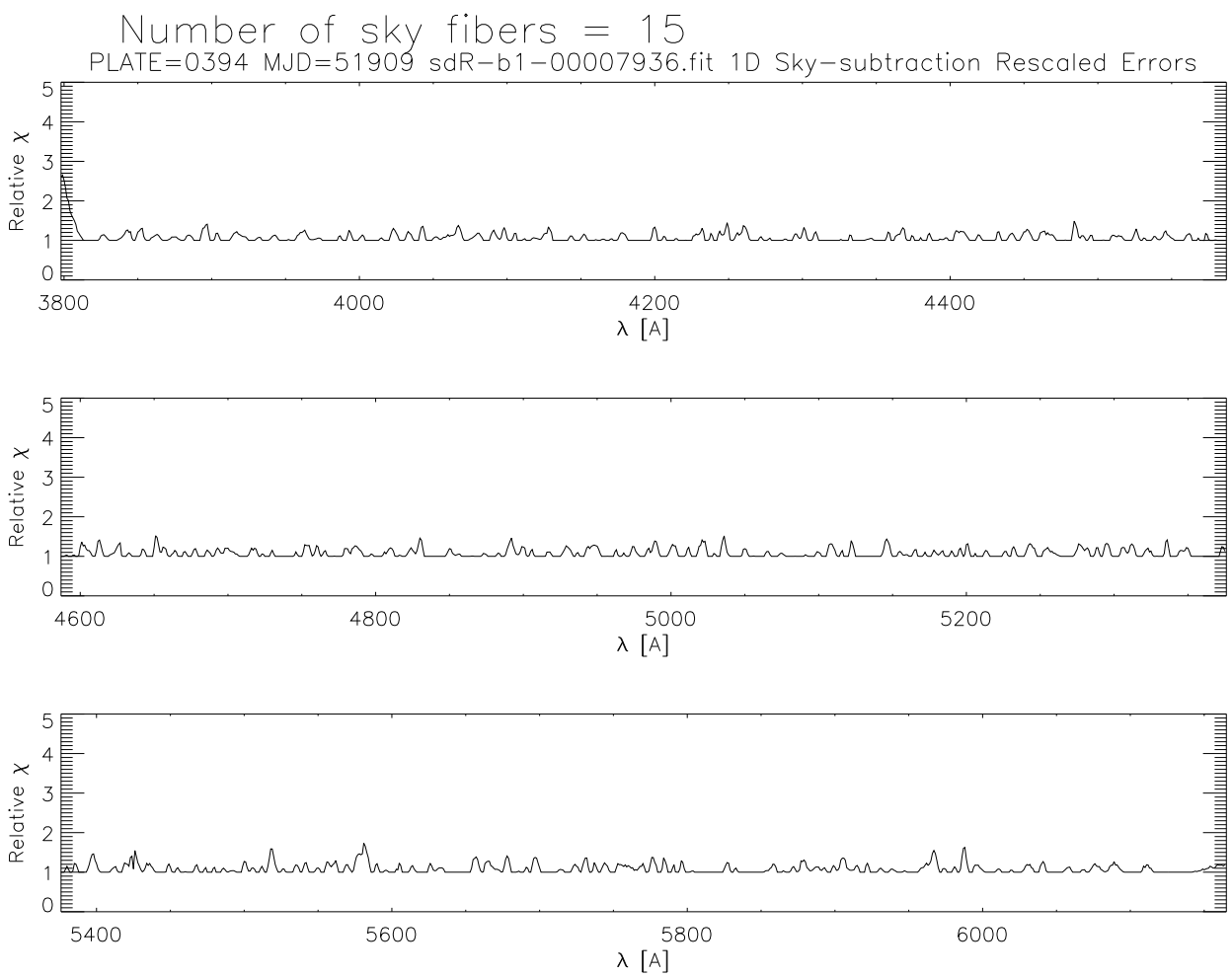
es= 0.0000

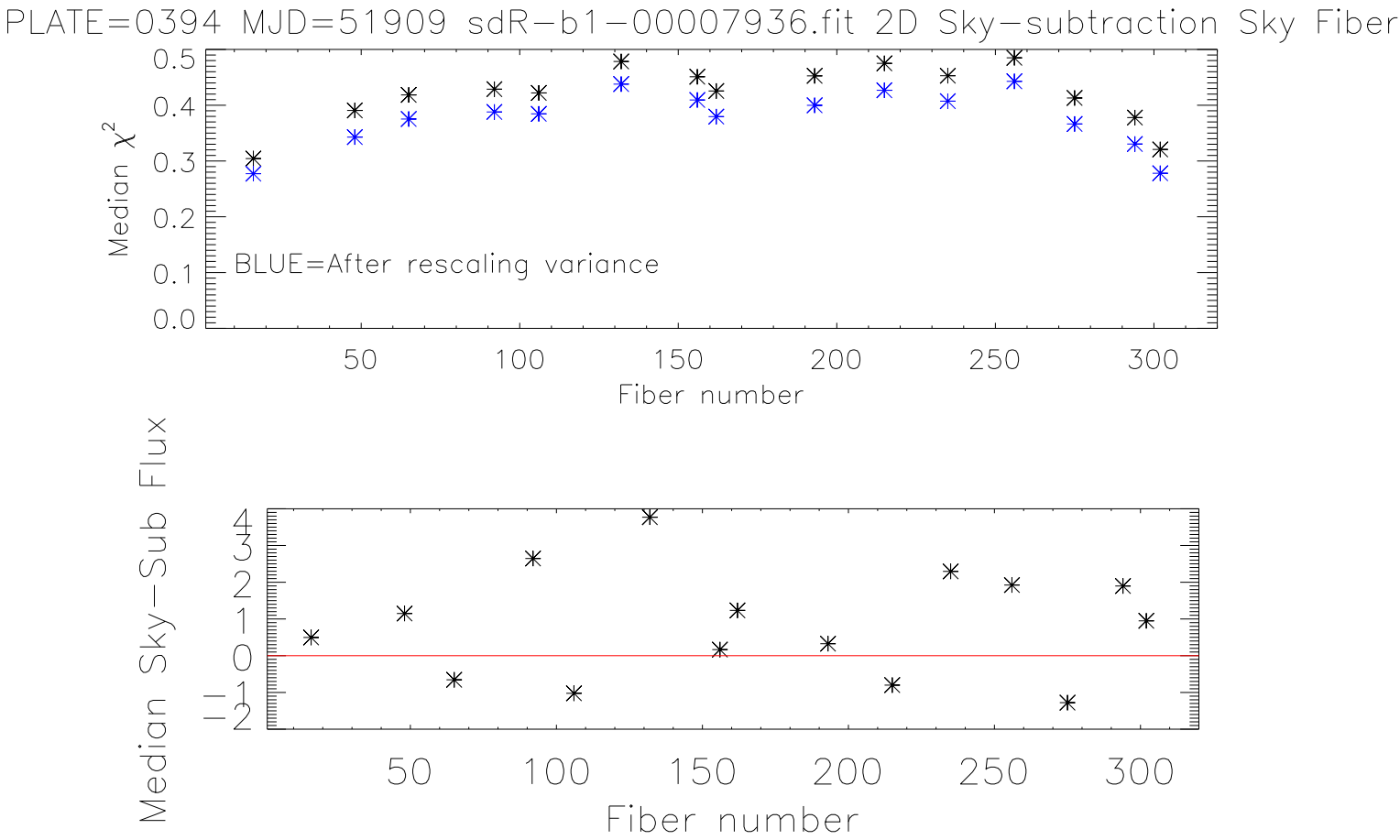

PLATE=0394 MJD=51909 Smooth superflat for sdR-b1-00007936.fit
1.5
1.0
0.5
0.0
1.03
1.02
1.01
1.00
0.99
0.98
4000
4500
5000
5500
6000
Wavelength (Å)

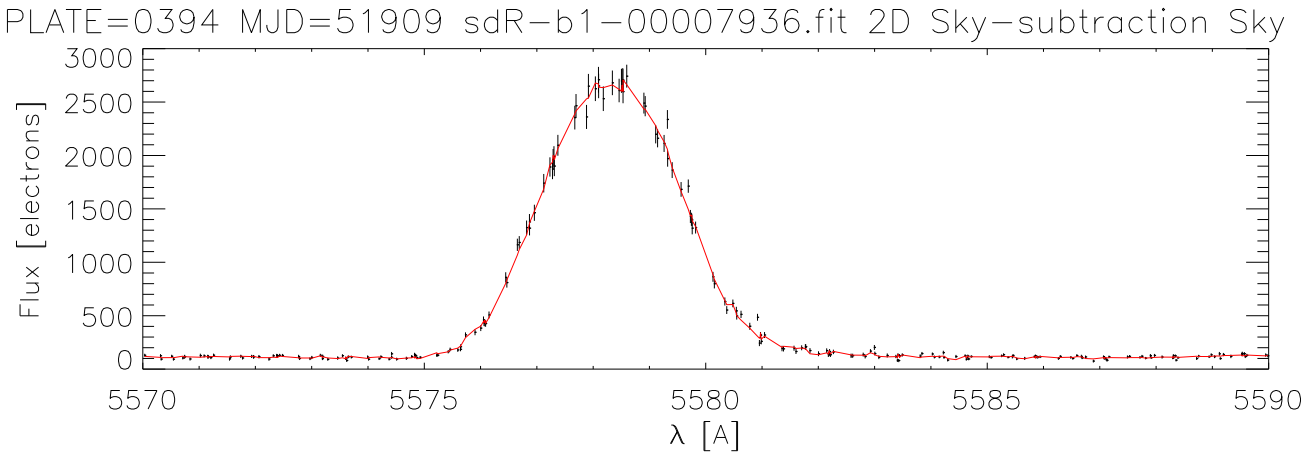

PLATE=0394 MJD=51909 sdR-b1-00007936.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

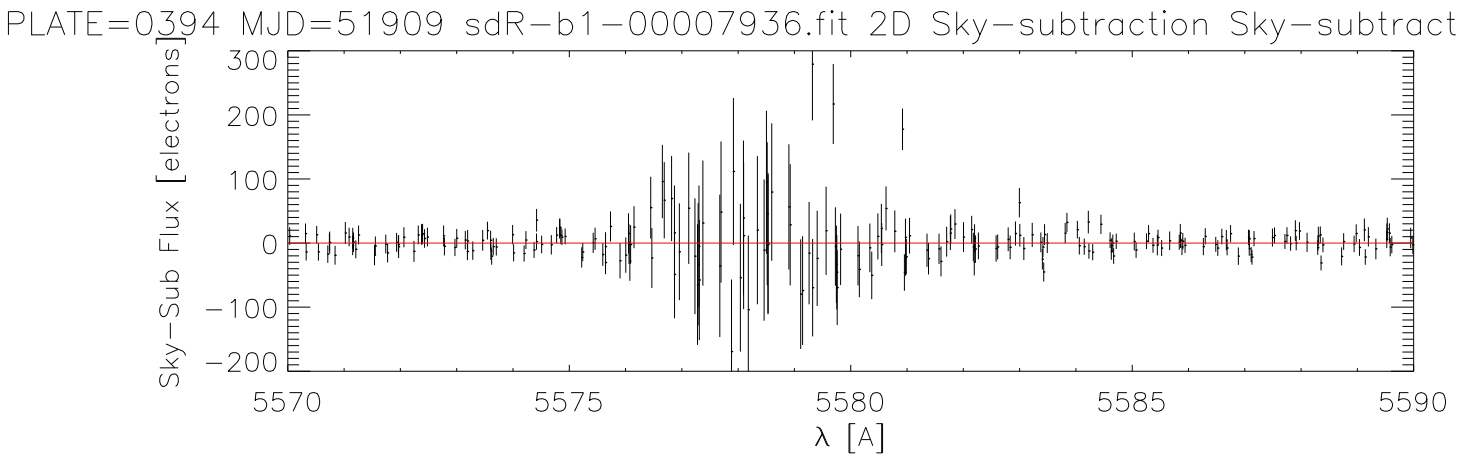

PLATE=0394 MJD=51909 sdR-b1-00007936.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

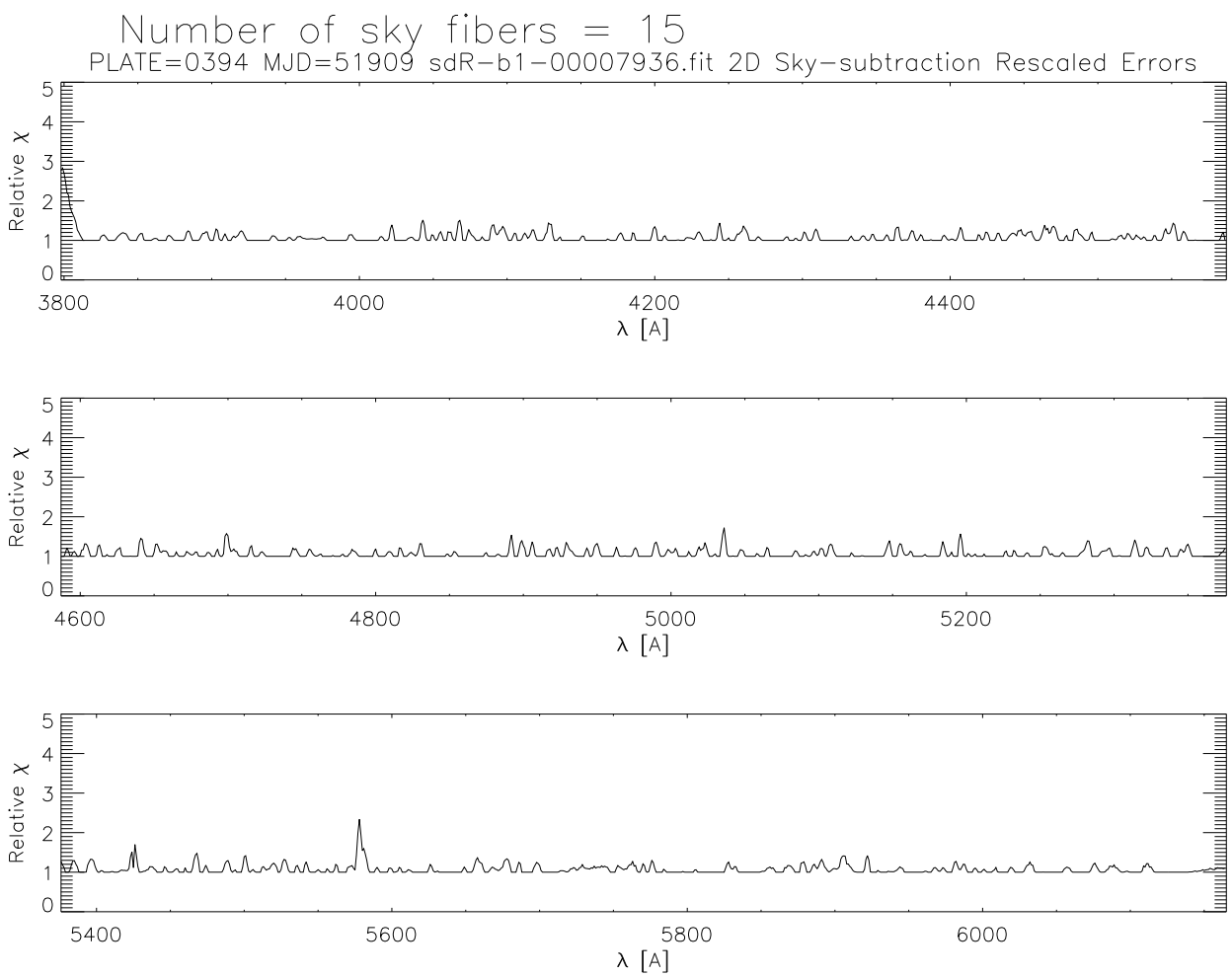

PLATE=0394 MJD=51909 sdR-b1-00007936.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

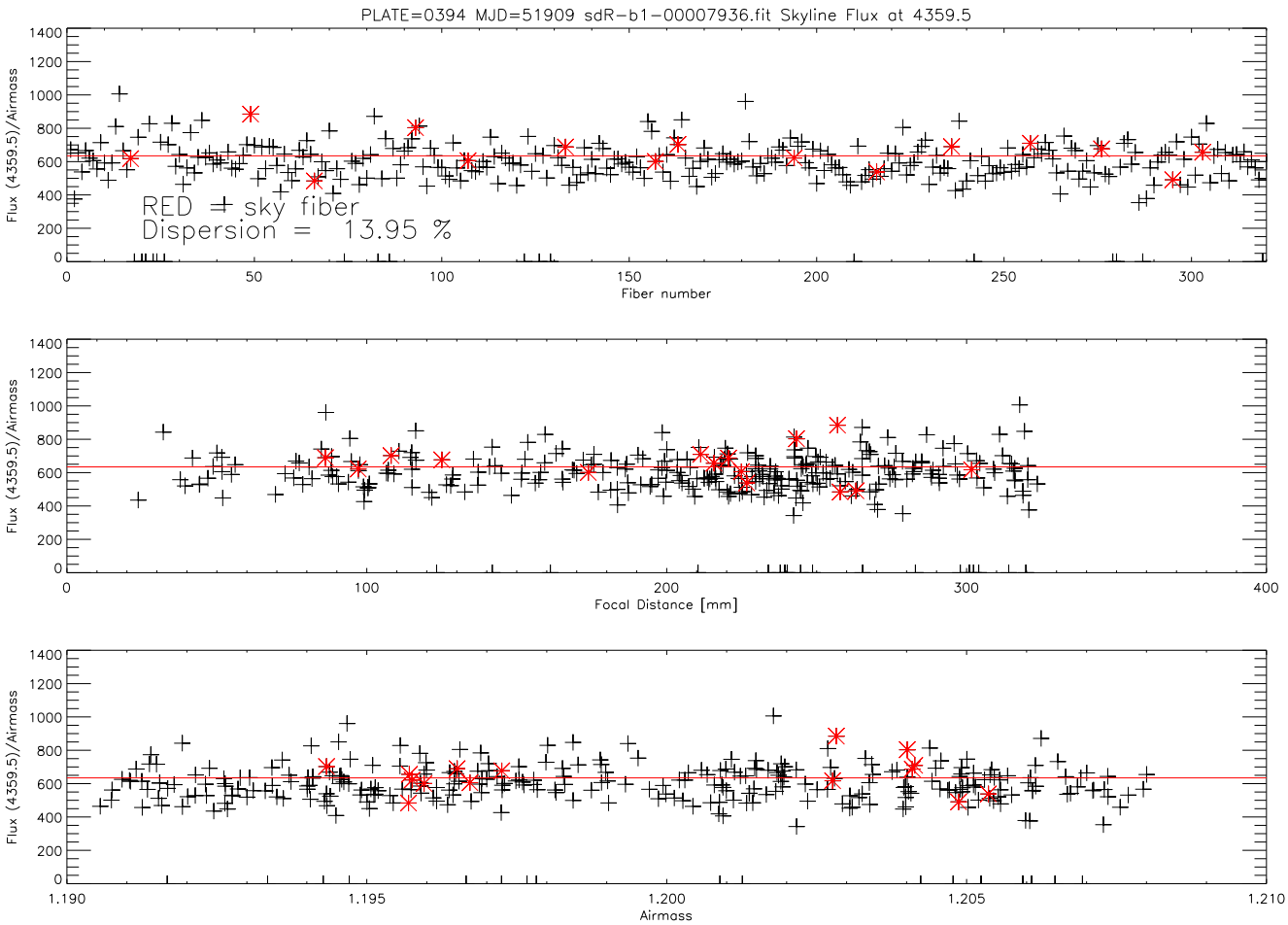

Number of sky fibers = 15
PLATE=0394 MJD=51909 sdR-b1-00007936.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

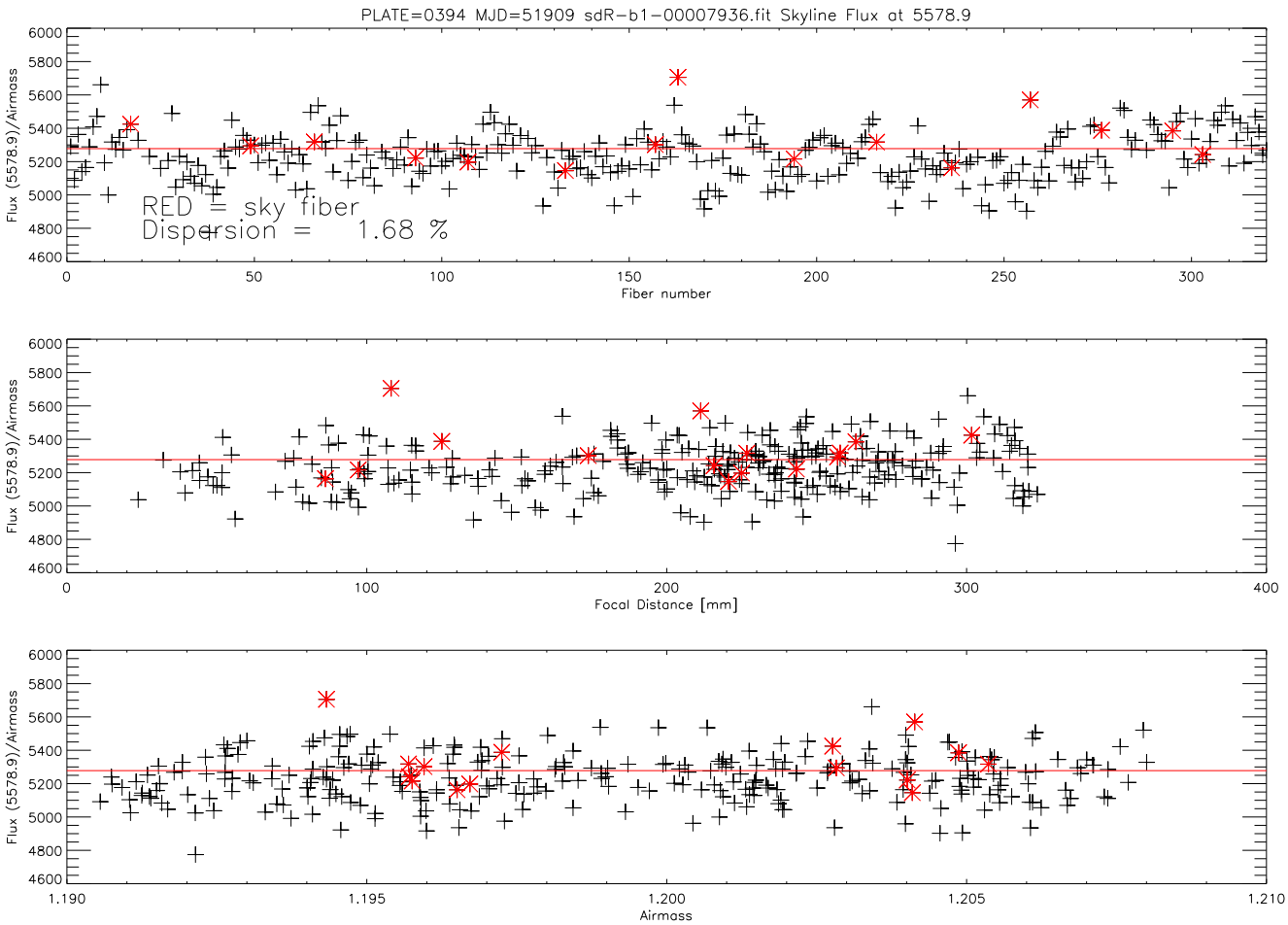

PLATE=0394 MJD=51909 sdR-b1-00007936.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
4
50
100
150
200
250
300
Fiber number

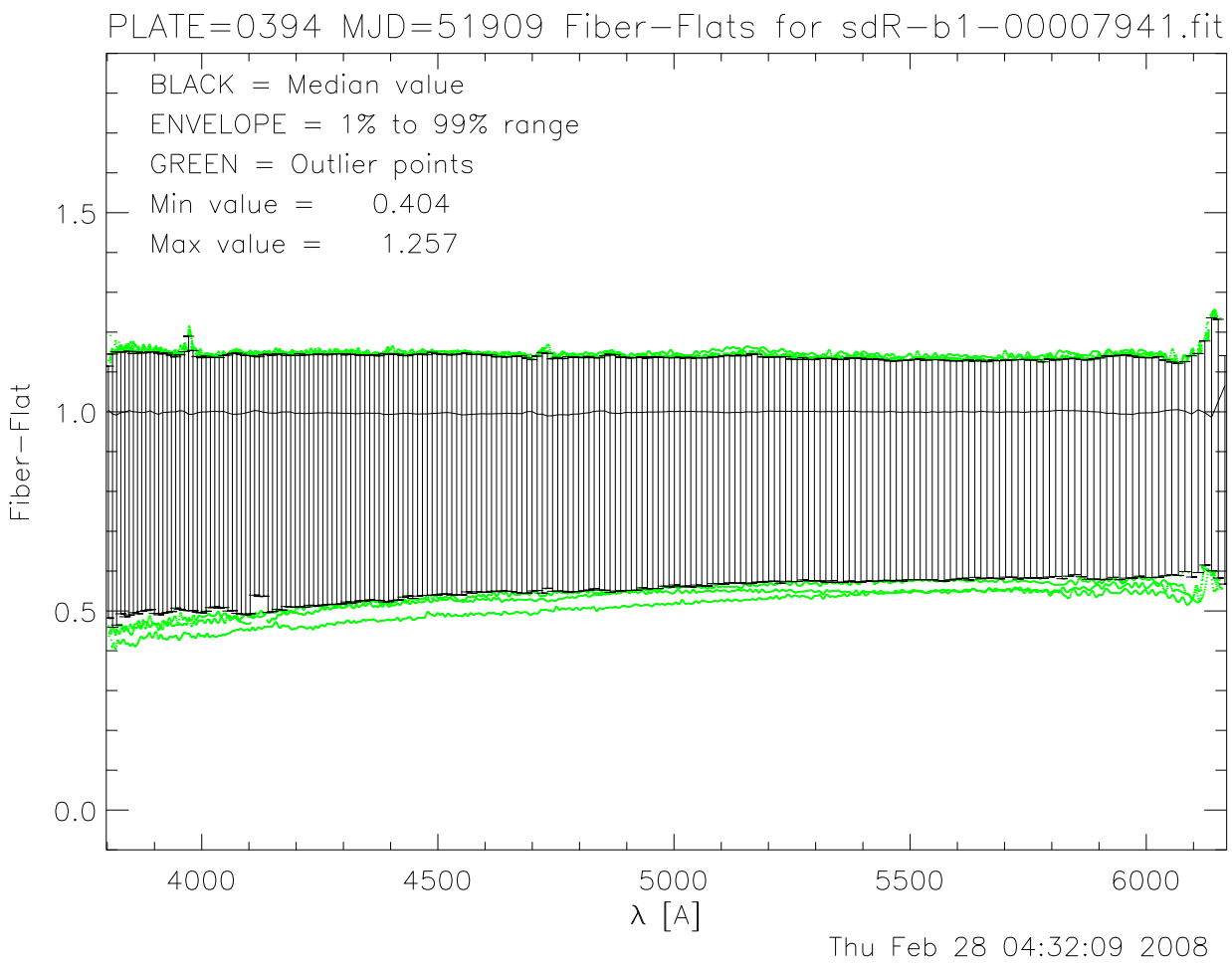

PLATE=0394 MJD=51909 sdR-b1-00007936.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

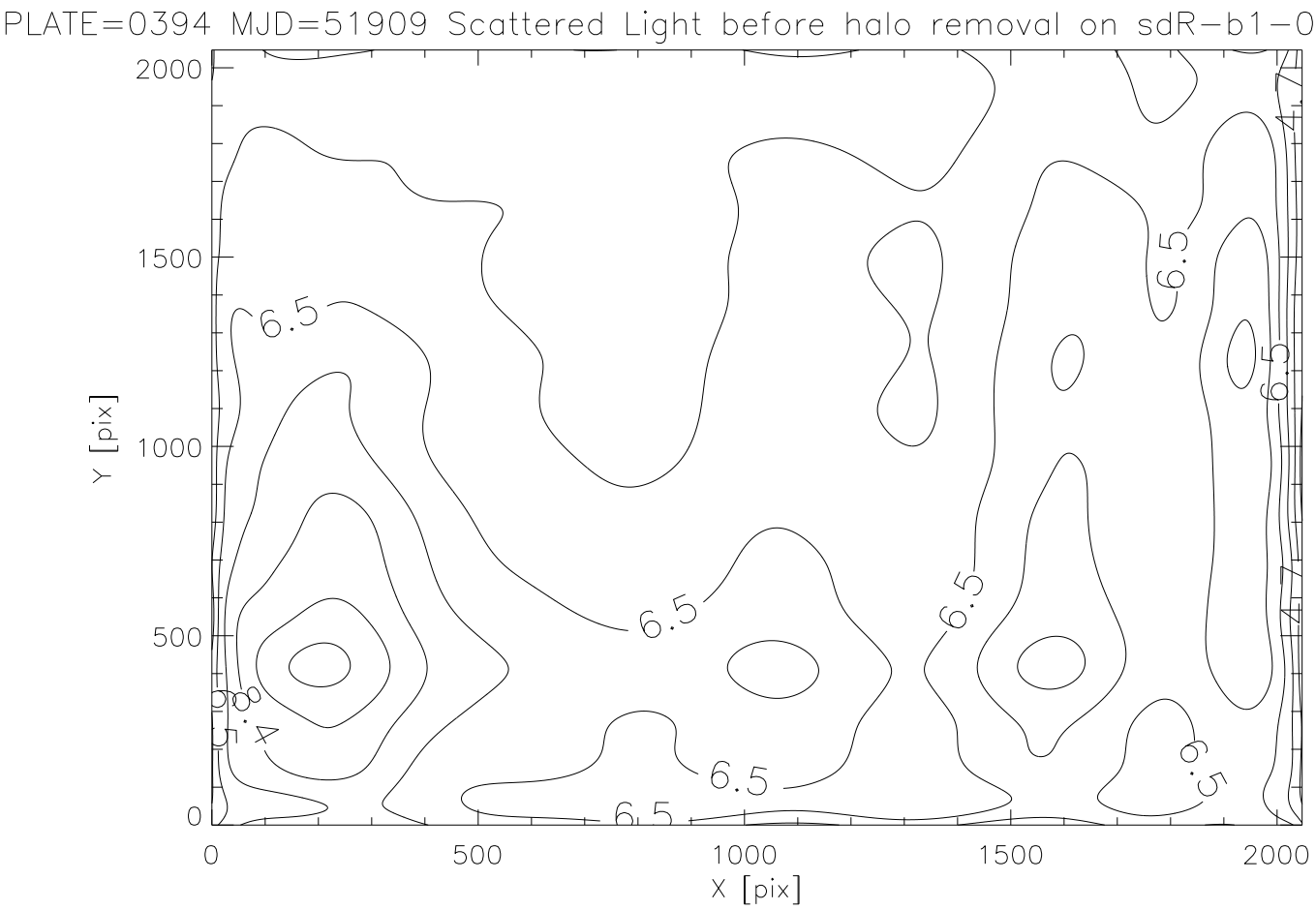

PLATE=0394 MJD=51909 sdR-b1-00007936.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

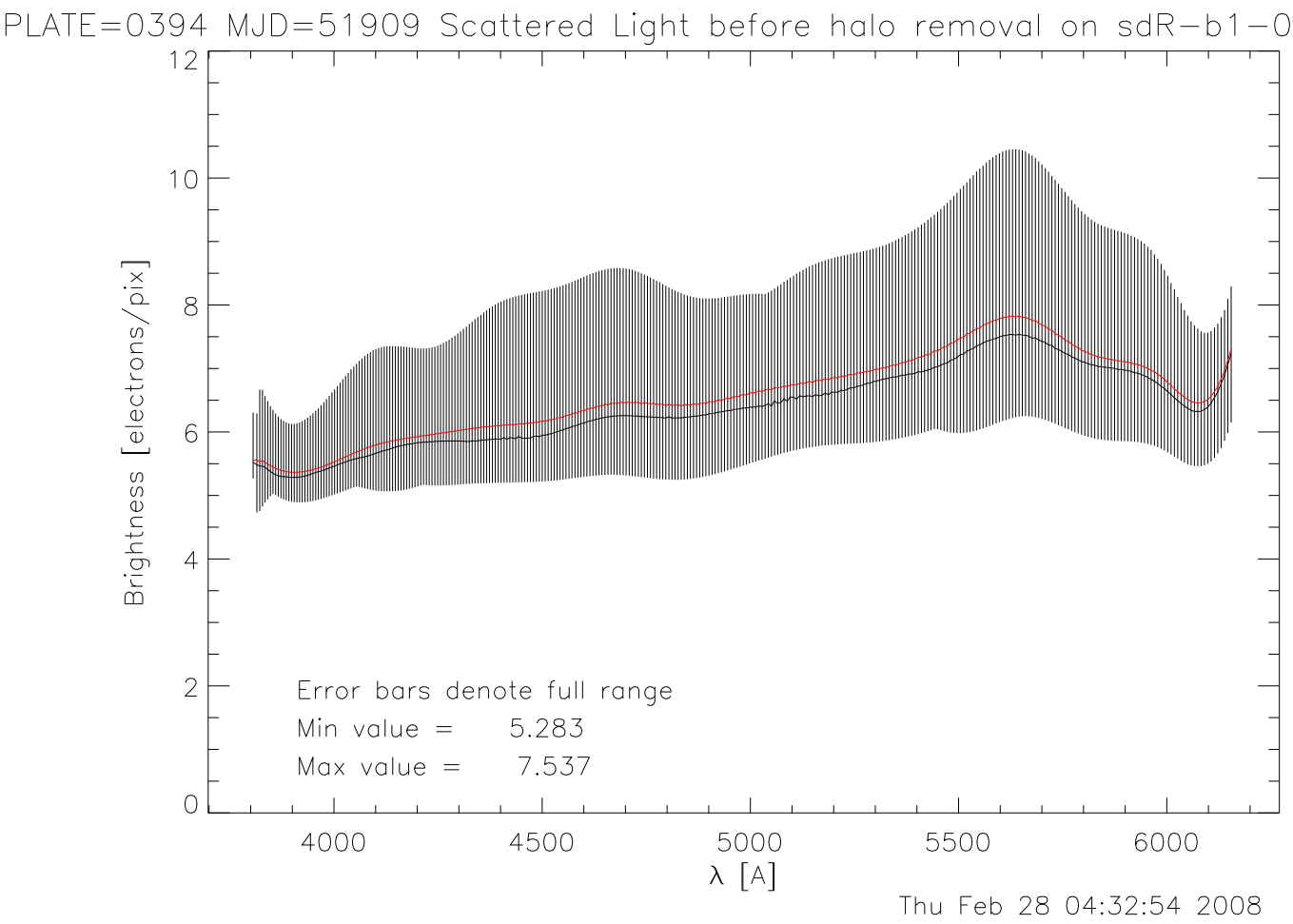

Number of sky fibers = 15
PLATE=0394 MJD=51909 sdR-b1-00007936.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

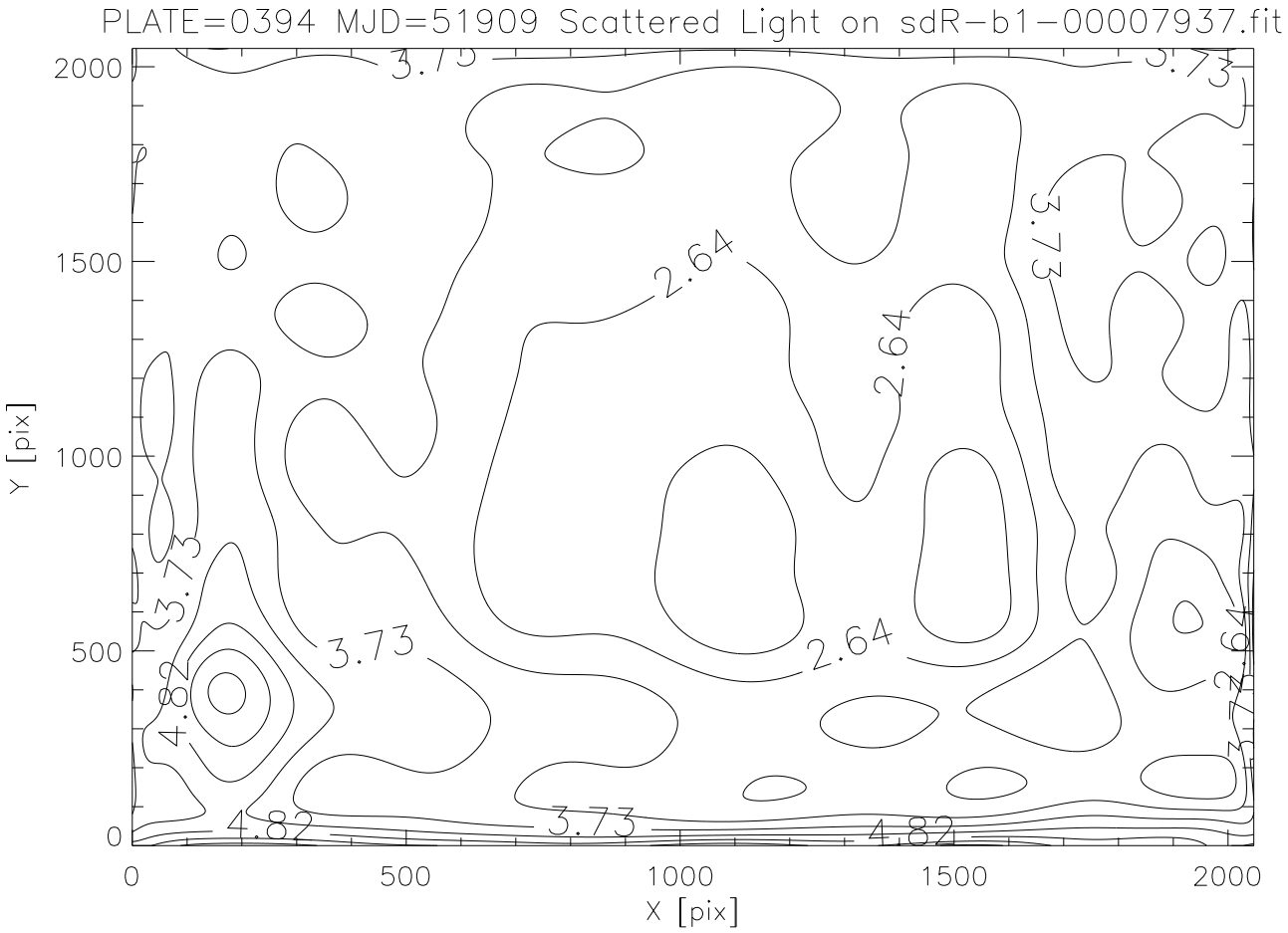

PLATE=0394 MJD=51909 sdR-b1-00007936.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 13.95 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

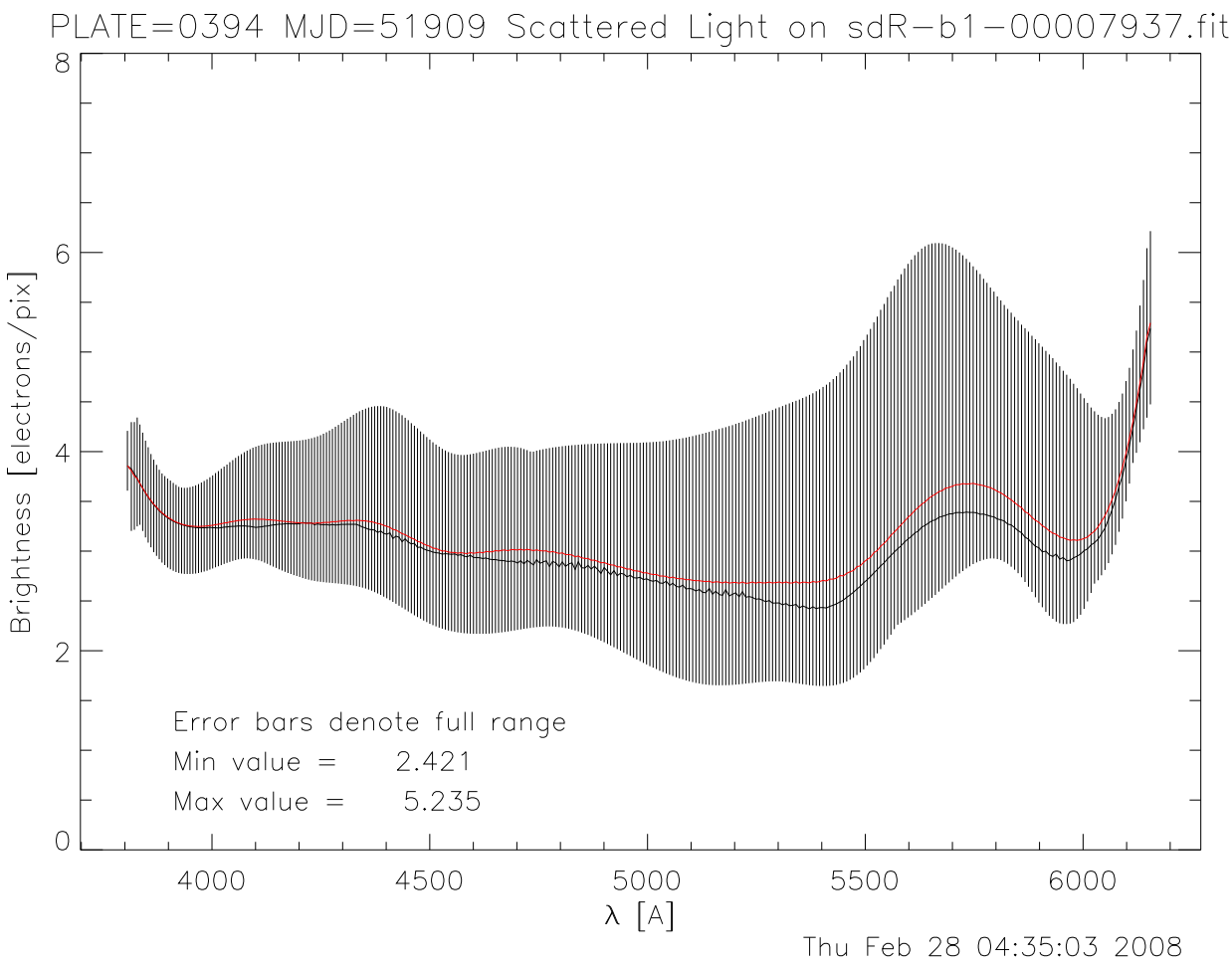

PLATE=0394 MJD=51909 sdR-b1-00007936.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.68 %
Fiber number
Focal Distance [mm]
Airmass

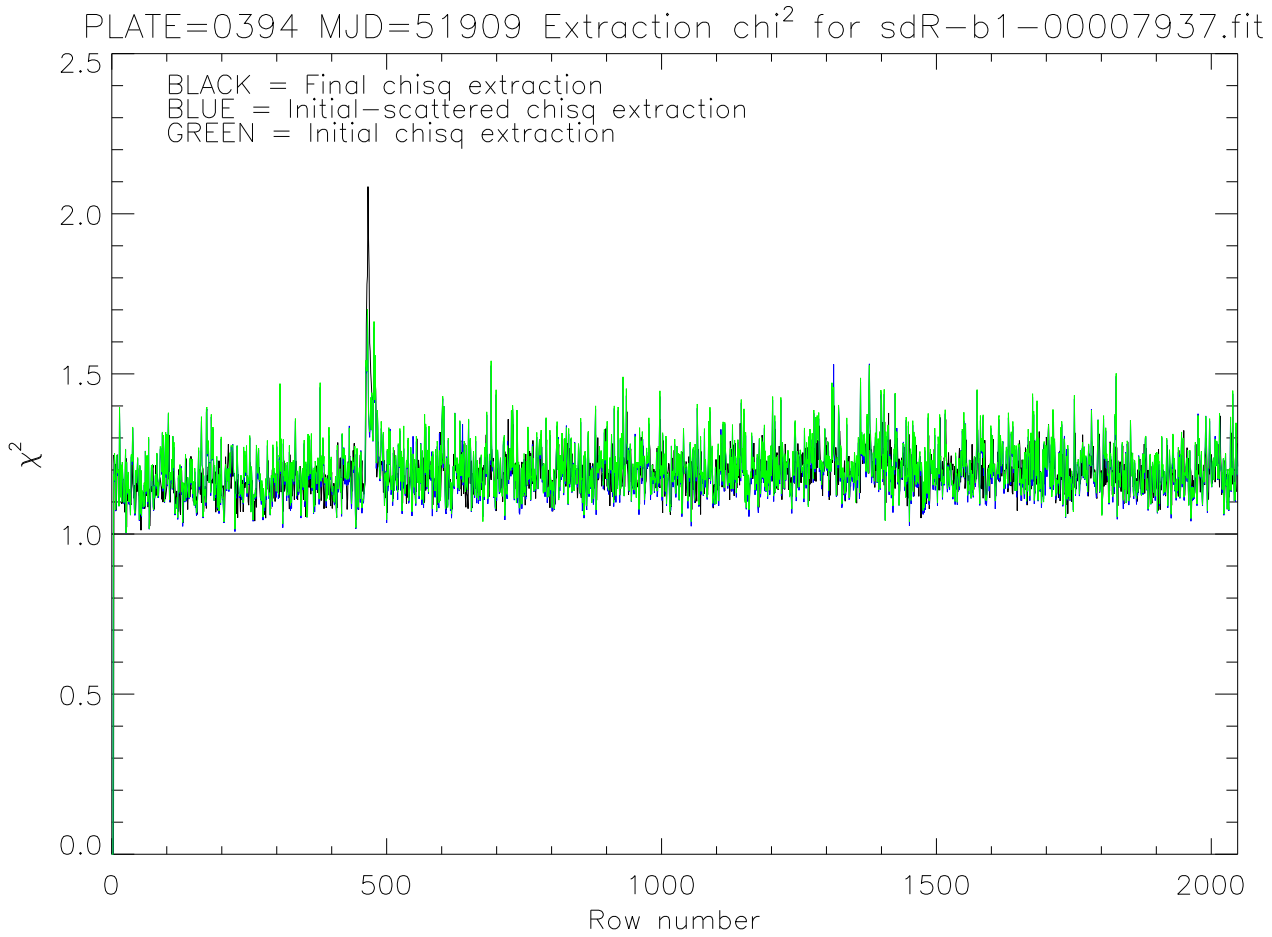

PLATE=0394 MJD=51909 Fiber-Flats for sdR-b1-00007941.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.404
Max value = 1.257
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Thu Feb 28 04:32:09 2008

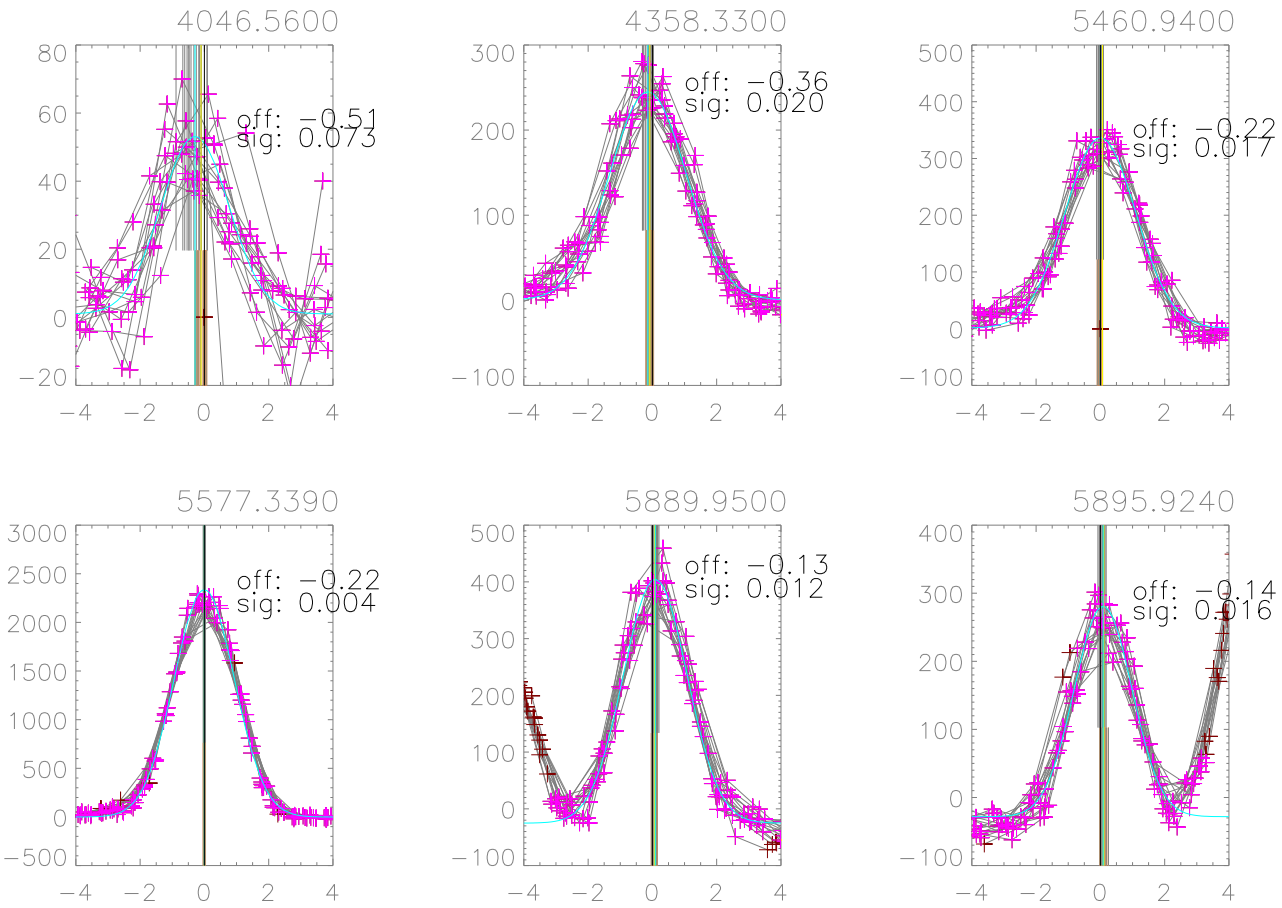

PLATE=0394 MJD=51909 Scattered Light before halo removal on sdR-b1-00007937.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5
6.5

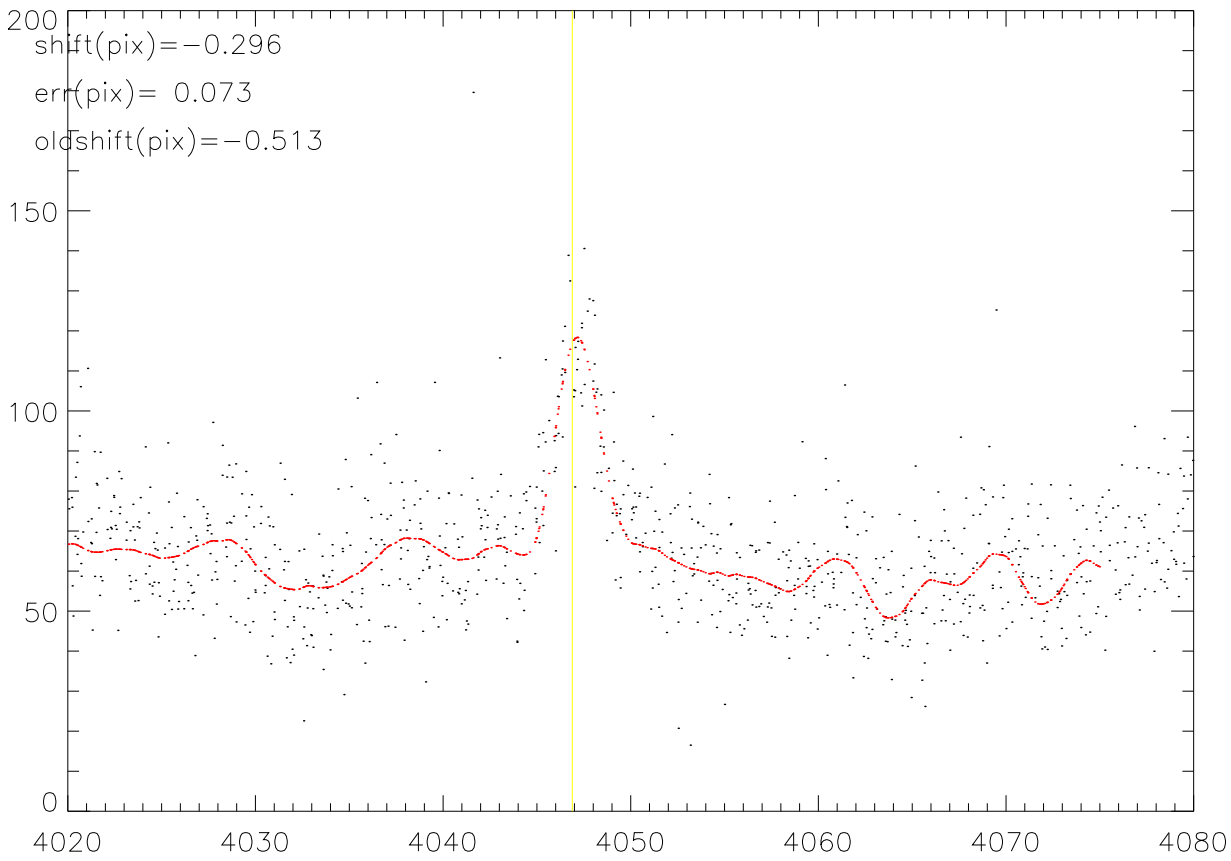

PLATE=0394 MJD=51909 Scattered Light before halo removal on sdR-b1-00007937.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.283
Max value = 7.537
Thu Feb 28 04:32:54 2008

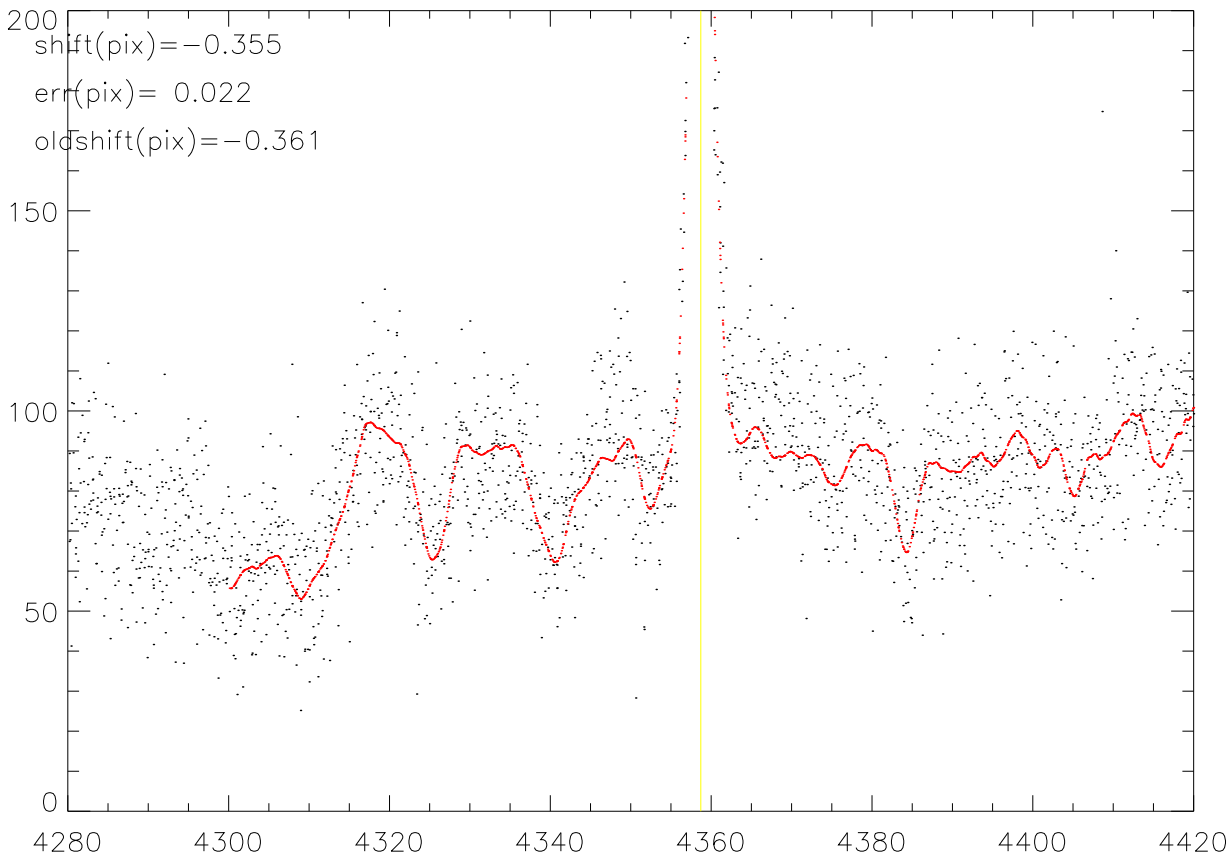

PLATE=0394 MJD=51909 Scattered Light on sdR-b1-00007937.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
3.73
2.64
4.82

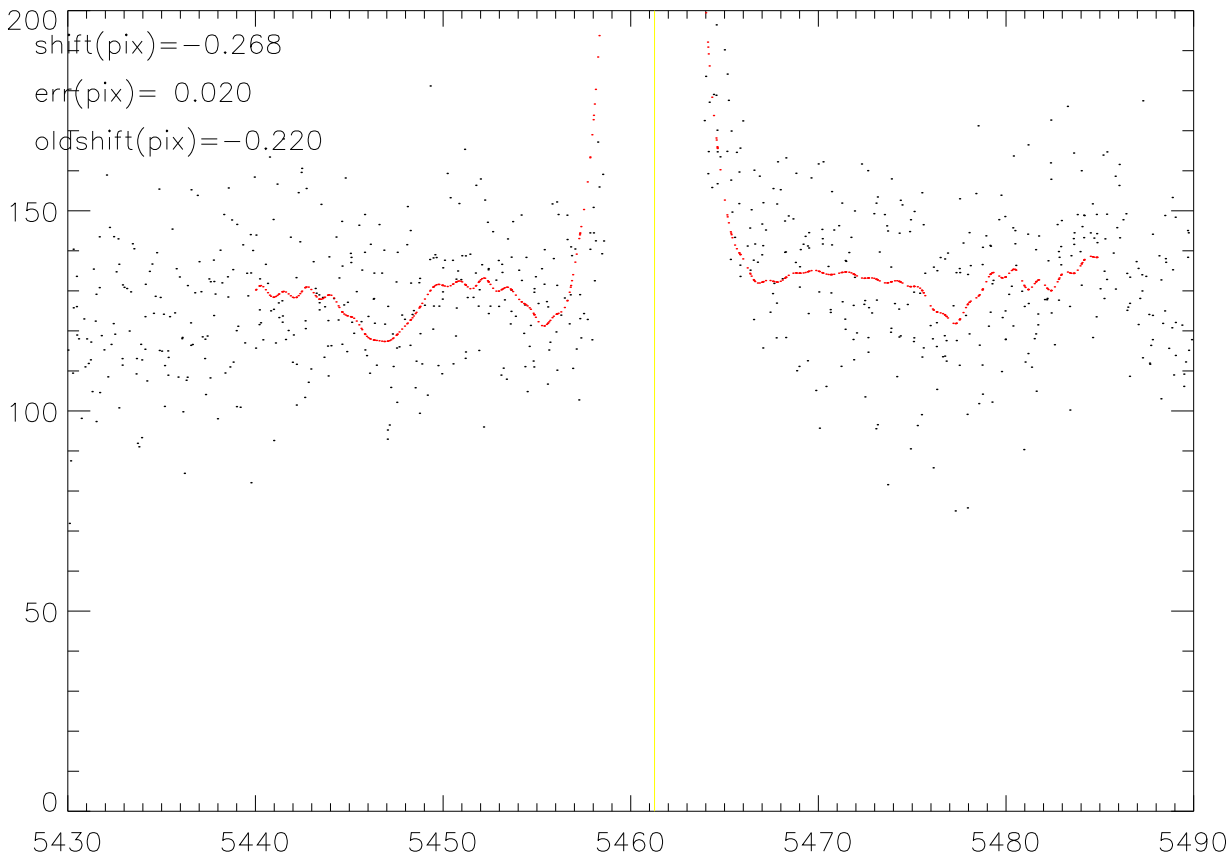

PLATE=0394 MJD=51909 Scattered Light on sdR-b1-00007937.fit
Brightness [electrons/pix]
0
2
4
6
8
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 2.421
Max value = 5.235
Thu Feb 28 04:35:03 2008

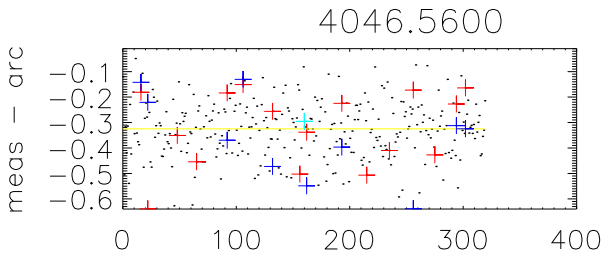

PLATE=0394 MJD=51909 Extraction chi^2 for sdR-b1-00007937.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

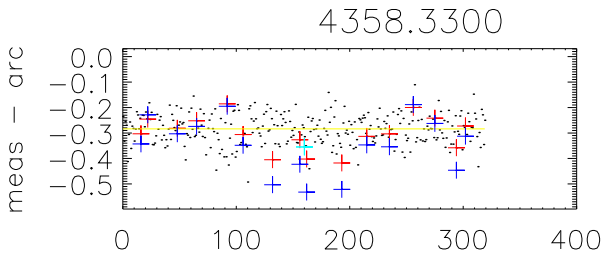

4046.5600
off: −0.51
sig: 0.073
4358.3300
off: −0.36
sig: 0.020
5460.9400
off: −0.22
sig: 0.017
5577.3390
off: −0.22
sig: 0.004
5889.9500
off: −0.13
sig: 0.012
5895.9240
off: −0.14
sig: 0.016

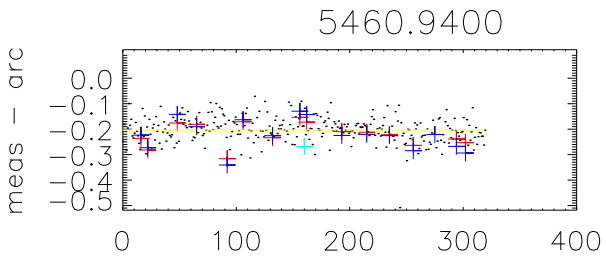

shift(pix)=−0.296
err(pix)= 0.073
oldshift(pix)=−0.513
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

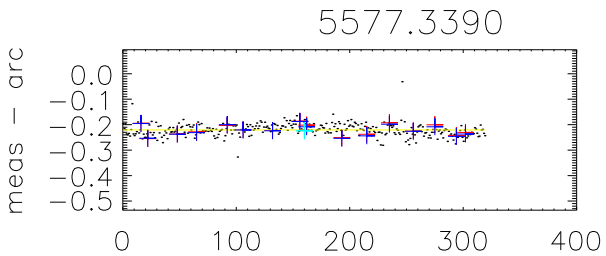

shift(pix)=−0.355
err(pix)= 0.022
oldshift(pix)=−0.361
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

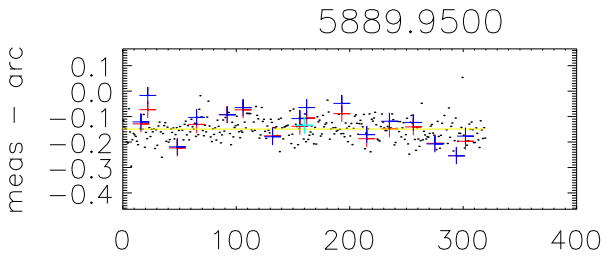

shift(pix)=−0.268
err(pix)= 0.020
oldshift(pix)=−0.220
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

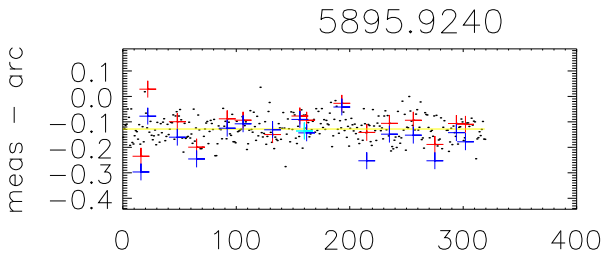

4046.5600
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

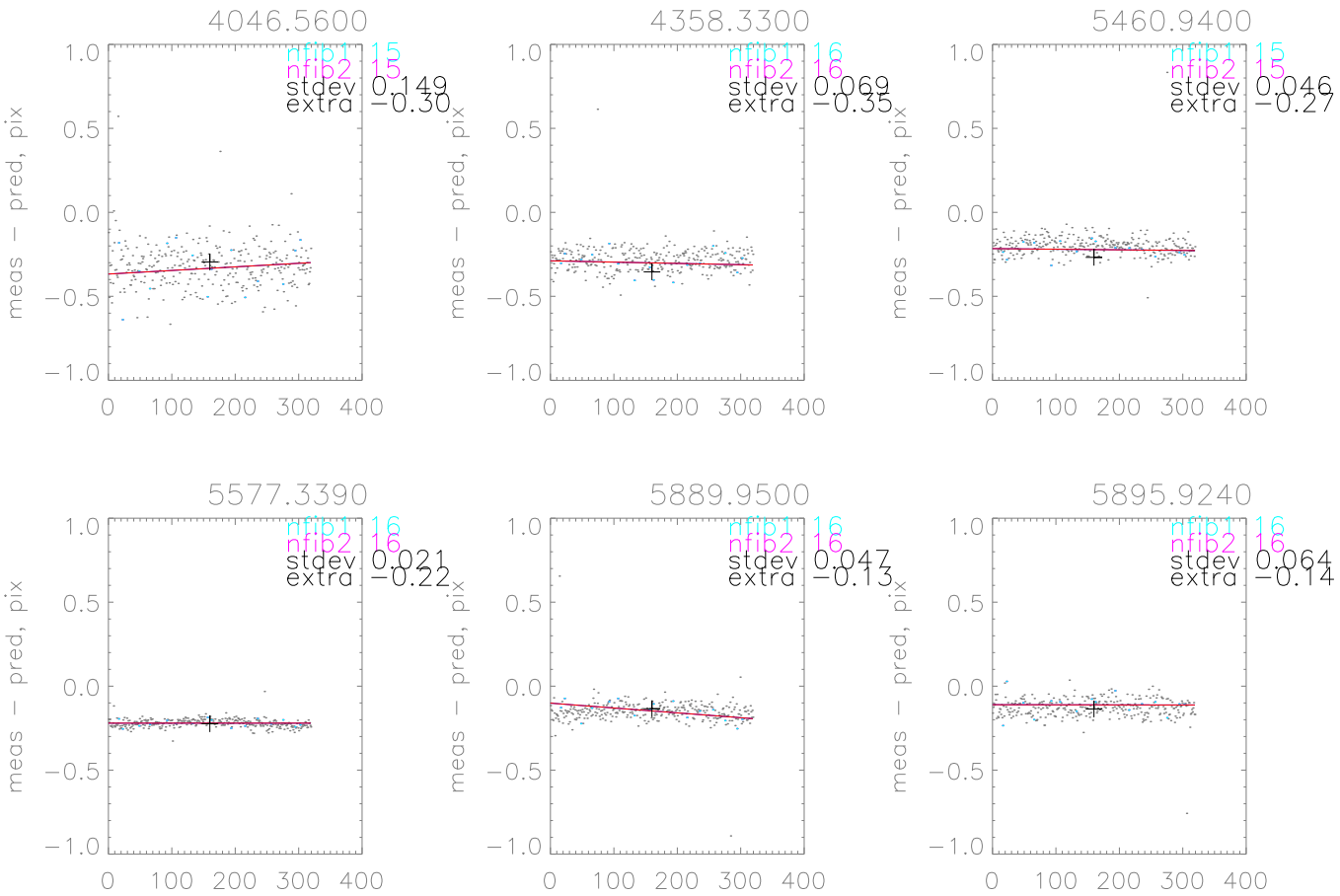

4358.3300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

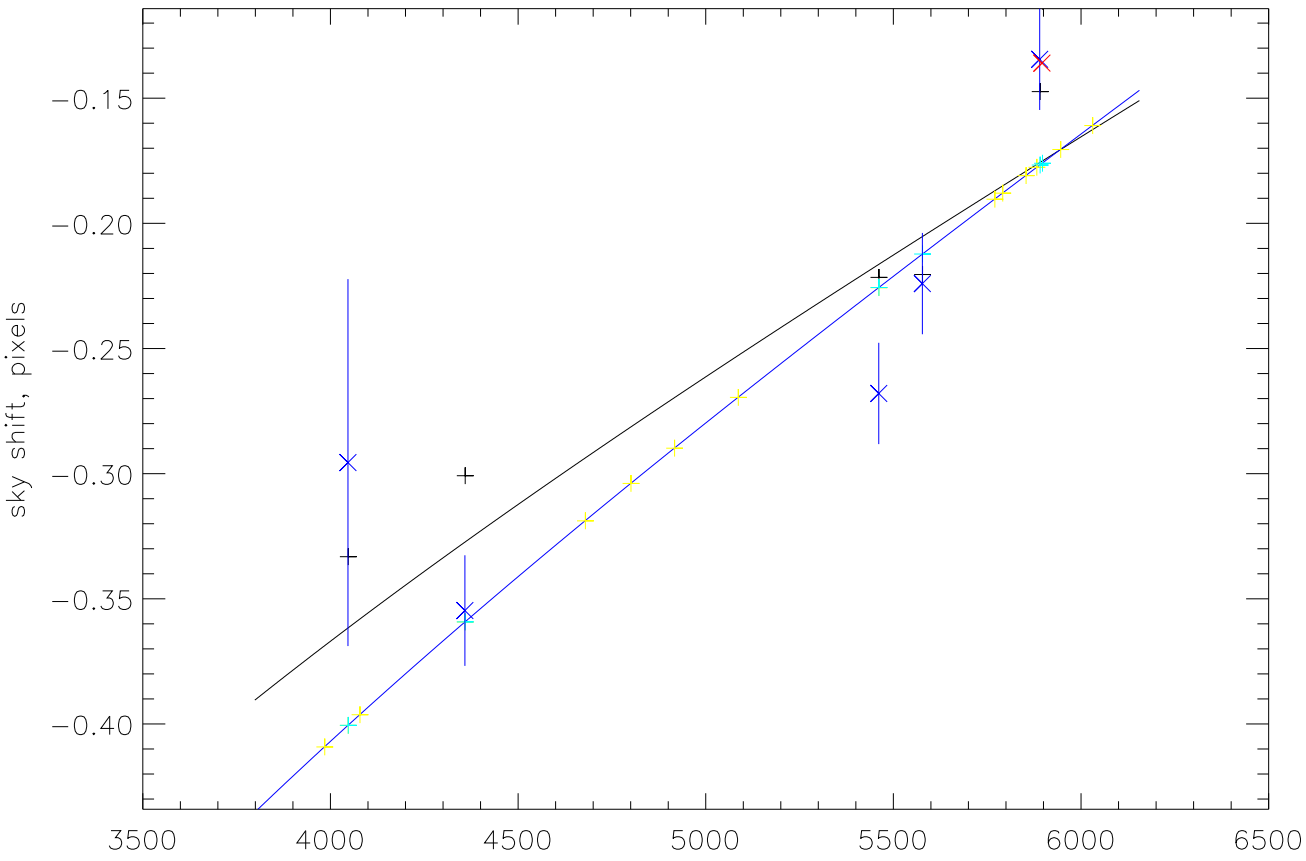

5460.9400
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400


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

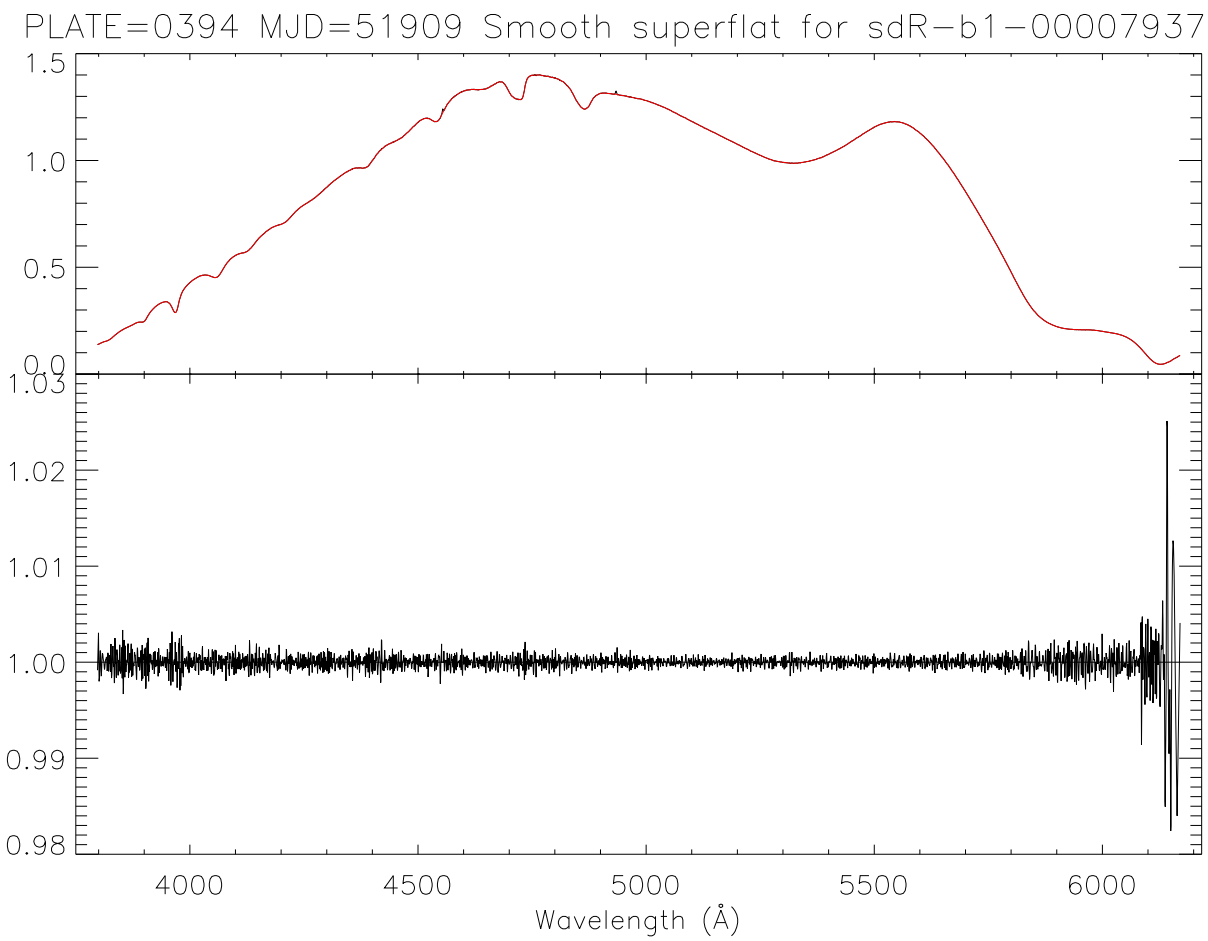

5889.9500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

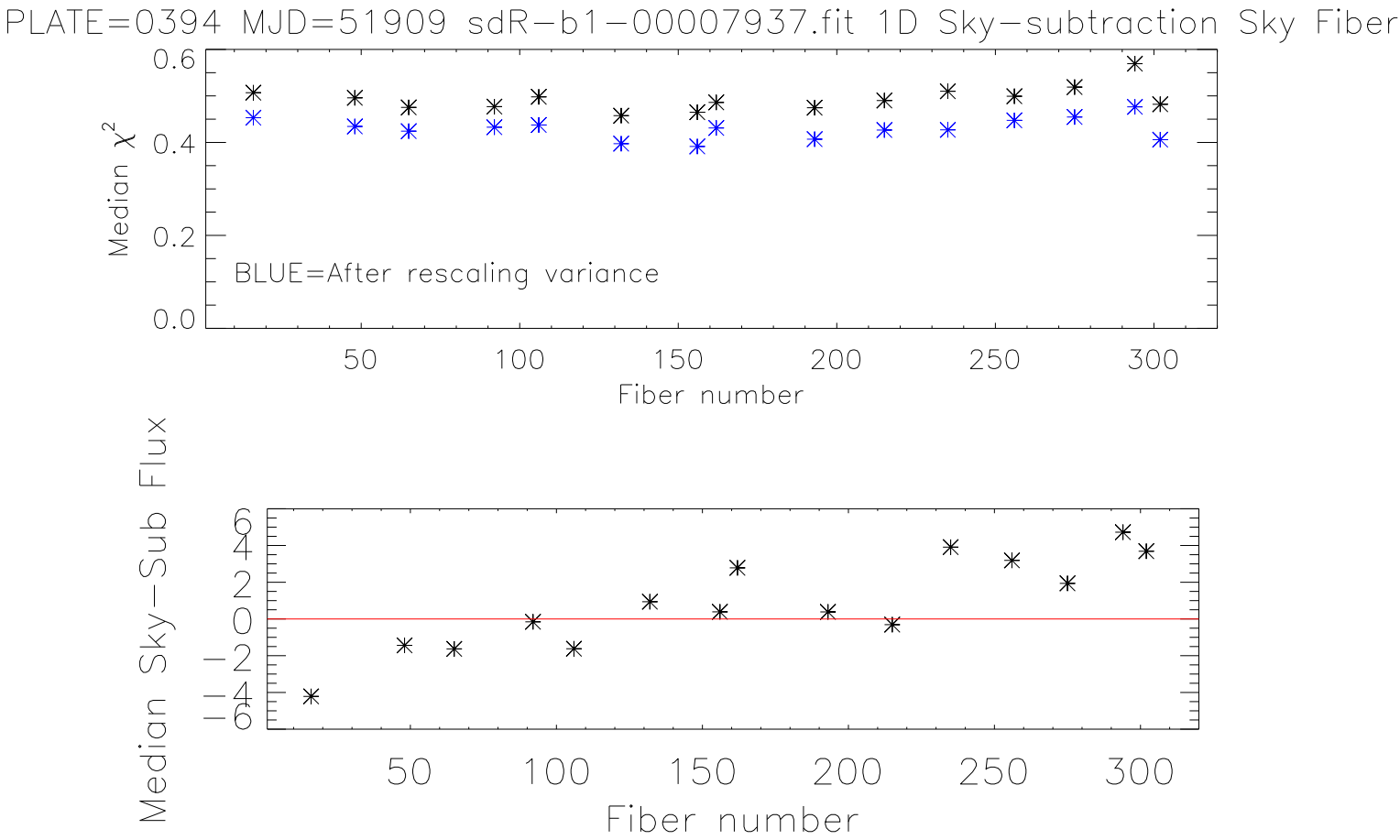

5895.9240
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

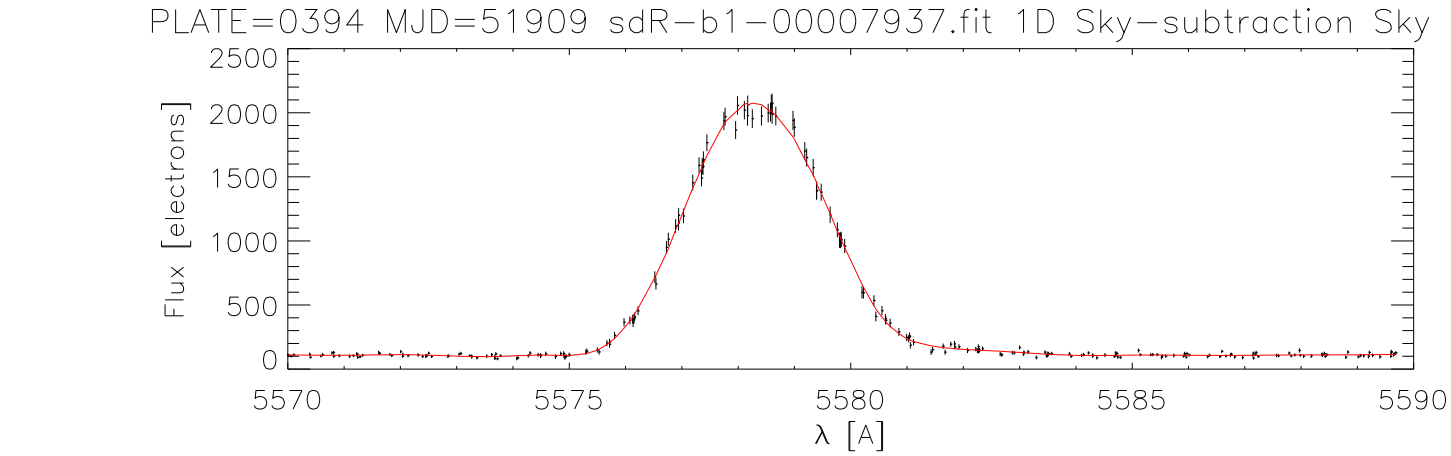

4046.5600
nfib1 15
nfib2 15
stdev 0.149
extra −0.30
4358.3300
nfib1 16
nfib2 16
stdev 0.069
extra −0.35
5460.9400
nfib1 15
nfib2 15
stdev 0.046
extra −0.27
5577.3390
nfib1 16
nfib2 16
stdev 0.021
extra −0.22
5889.9500
nfib1 16
nfib2 16
stdev 0.047
extra −0.13
5895.9240
nfib1 16
nfib2 16
stdev 0.064
extra −0.14
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

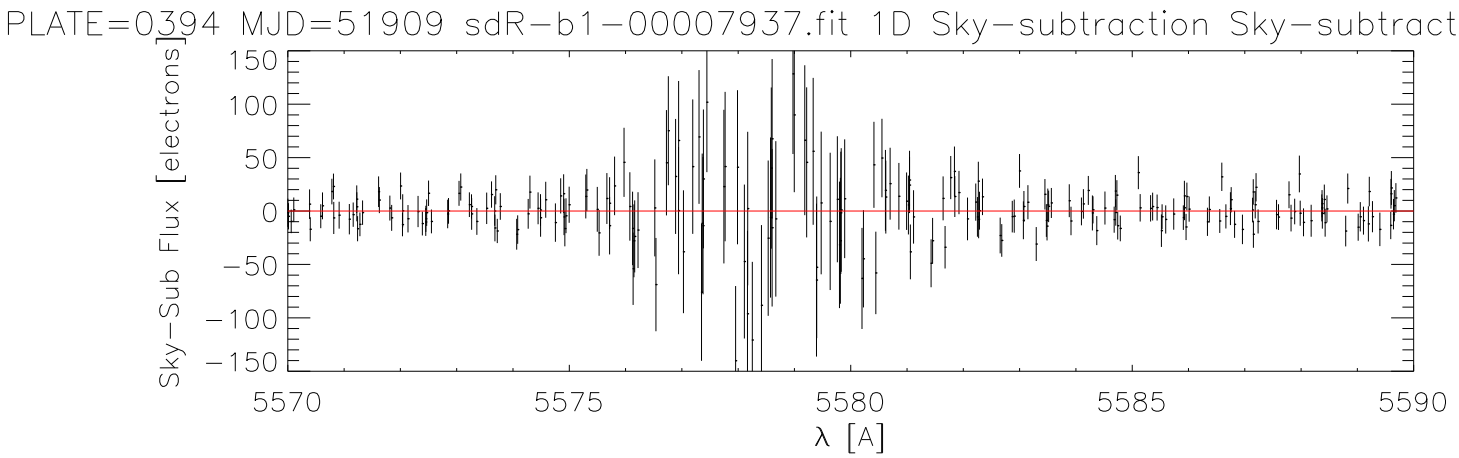

sky shift, pixels
−0.15
−0.20
−0.25
−0.30
−0.35
−0.40
3500
4000
4500
5000
5500
6000
6500

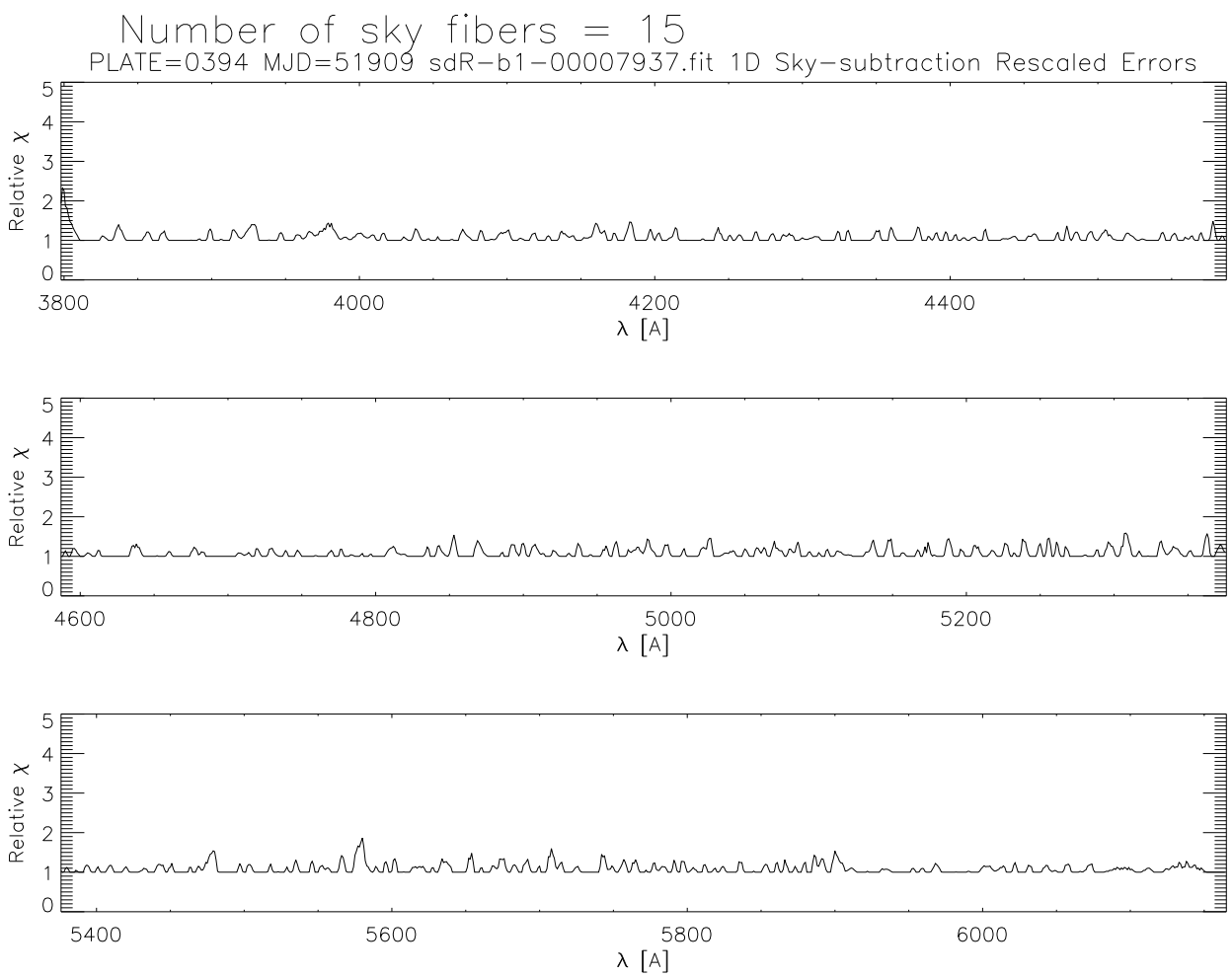
es= 0.0000

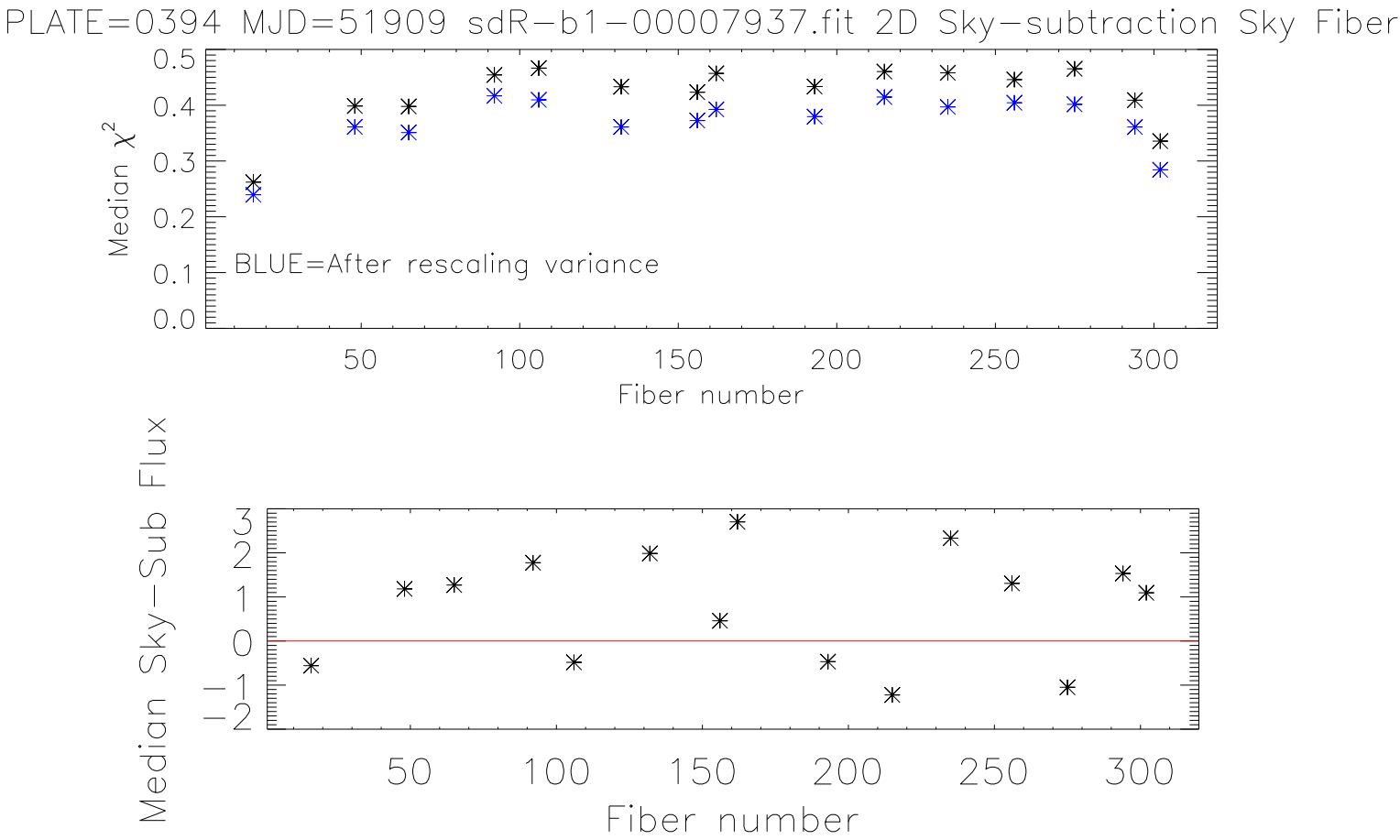

PLATE=0394 MJD=51909 Smooth superflat for sdR-b1-00007937.fit
1.5
1.0
0.5
0.0
1.03
1.02
1.01
1.00
0.99
0.98
4000
4500
5000
5500
6000
Wavelength (Å)

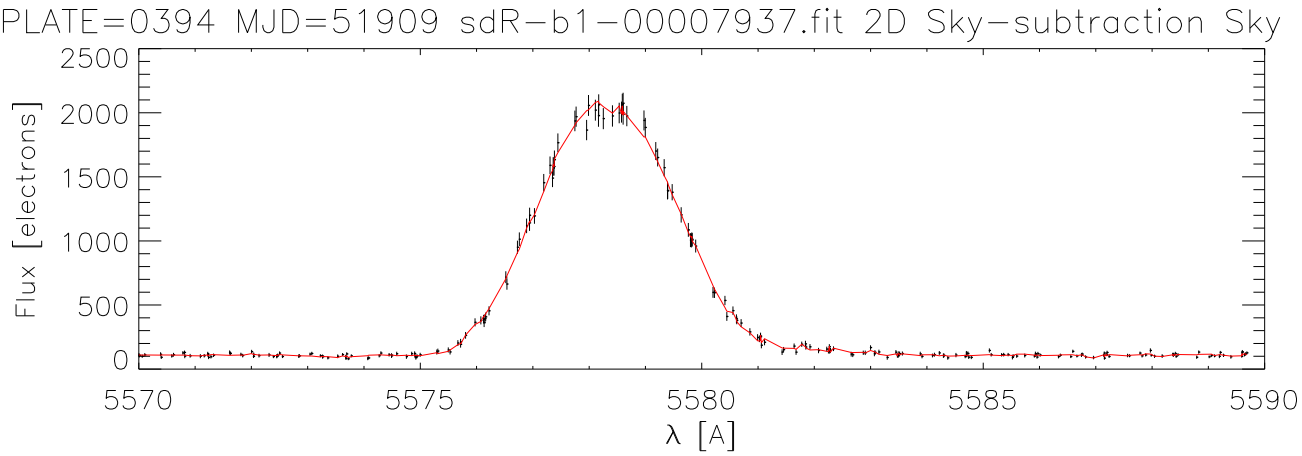

PLATE=0394 MJD=51909 sdR-b1-00007937.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

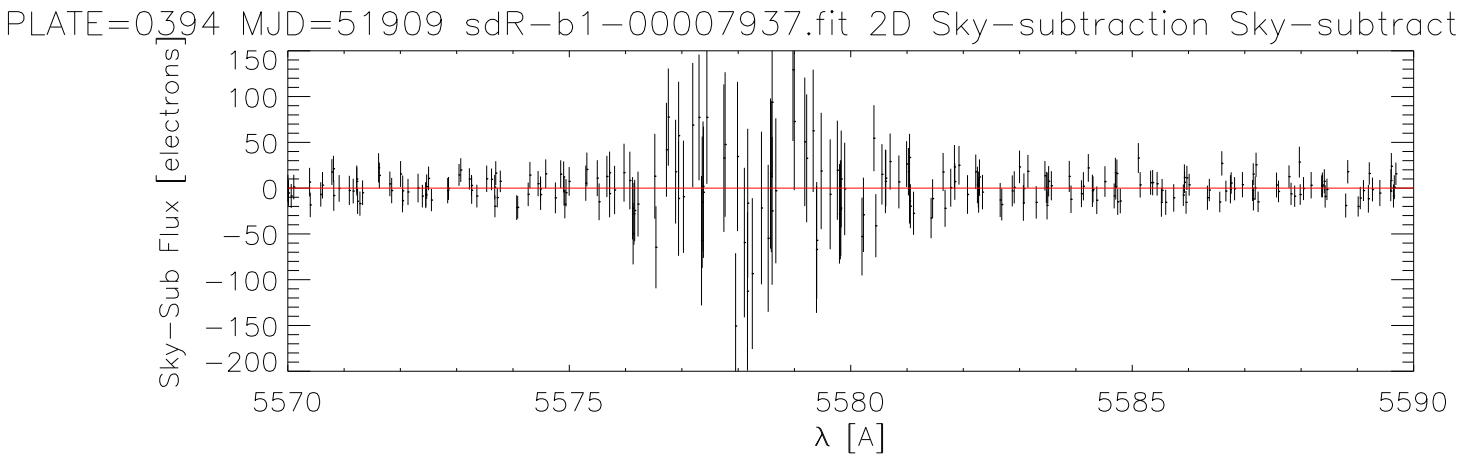

PLATE=0394 MJD=51909 sdR-b1-00007937.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

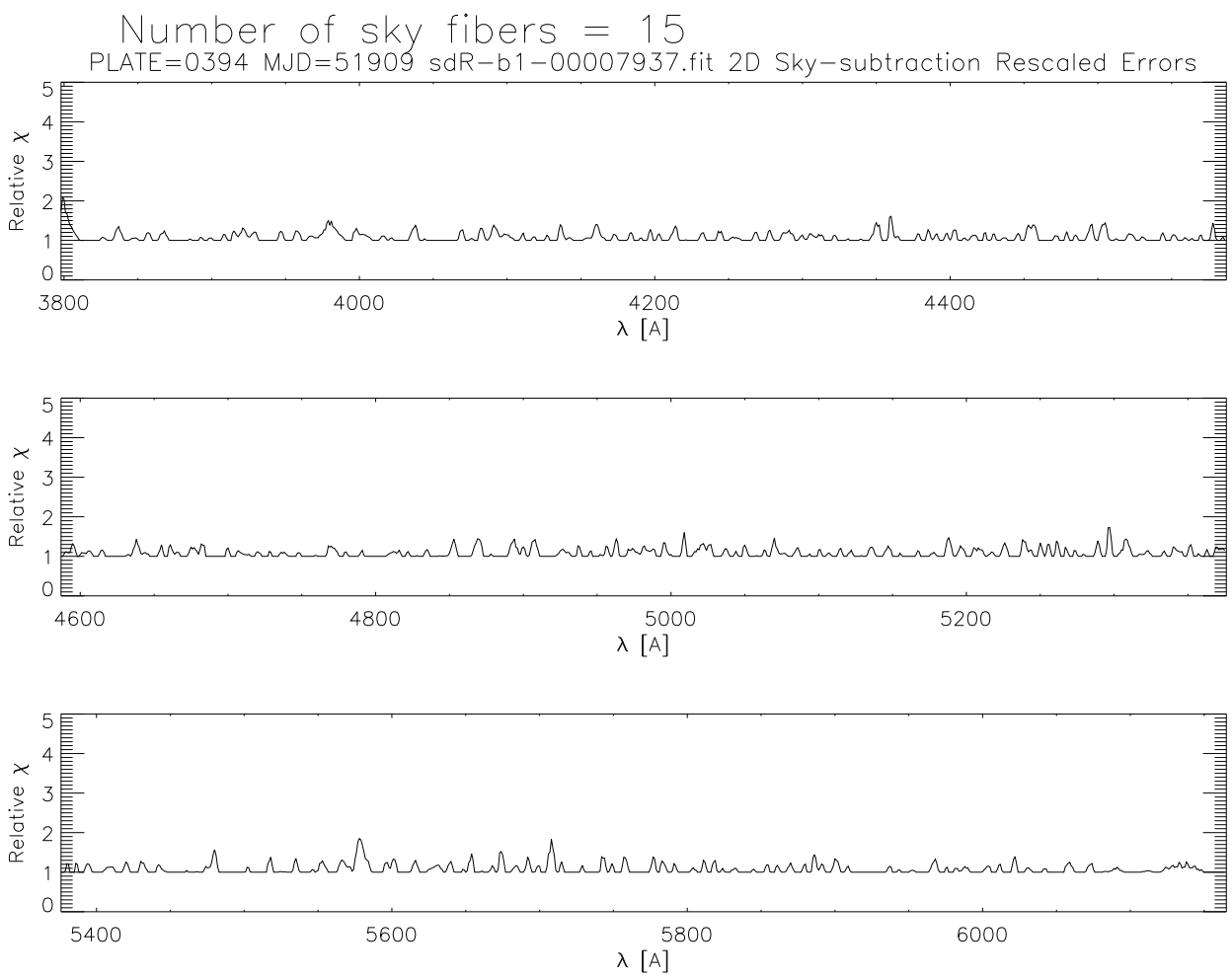

PLATE=0394 MJD=51909 sdR-b1-00007937.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
5570
5575
5580
5585
5590
λ [A]

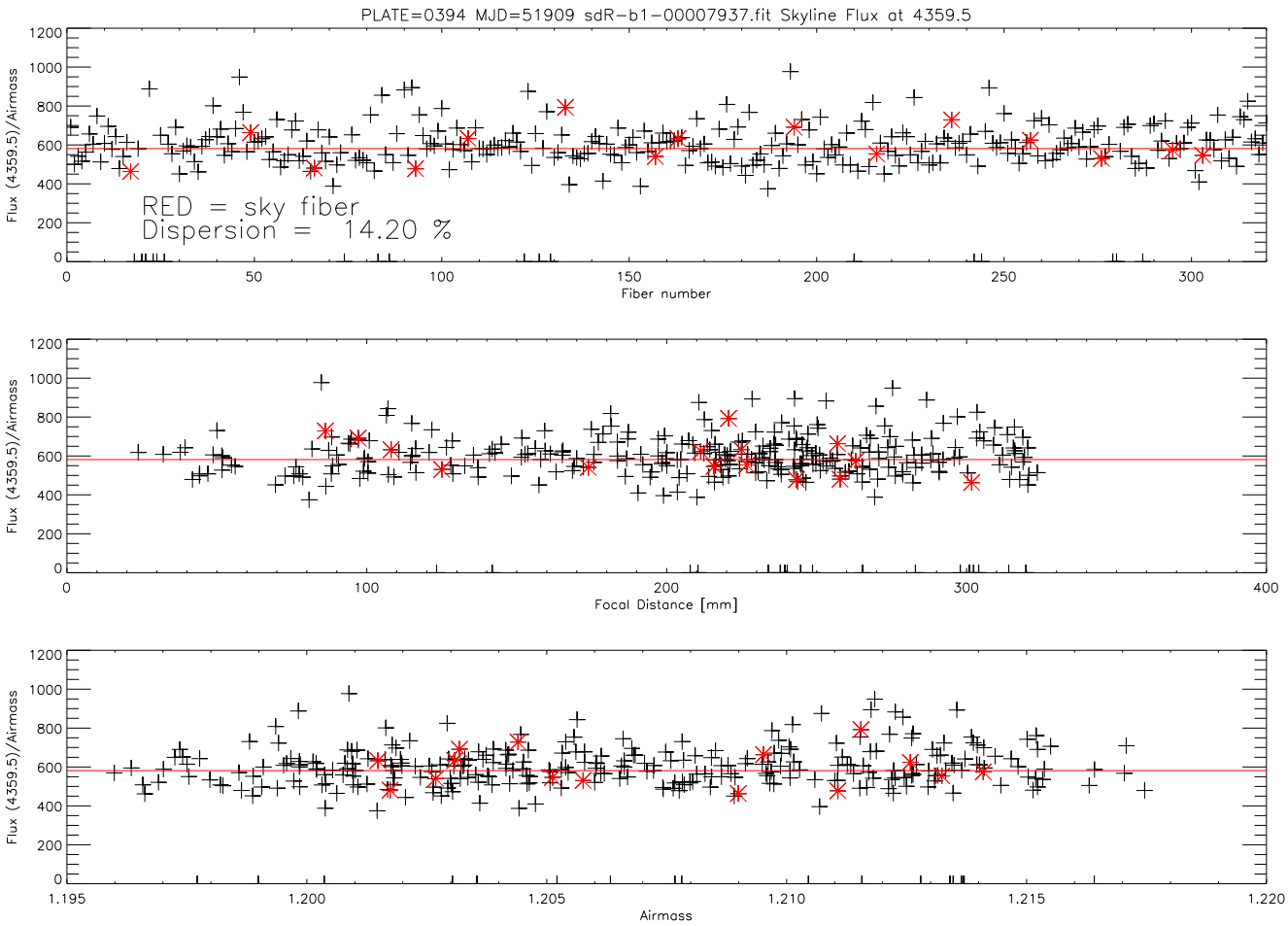

Number of sky fibers = 15
PLATE=0394 MJD=51909 sdR-b1-00007937.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

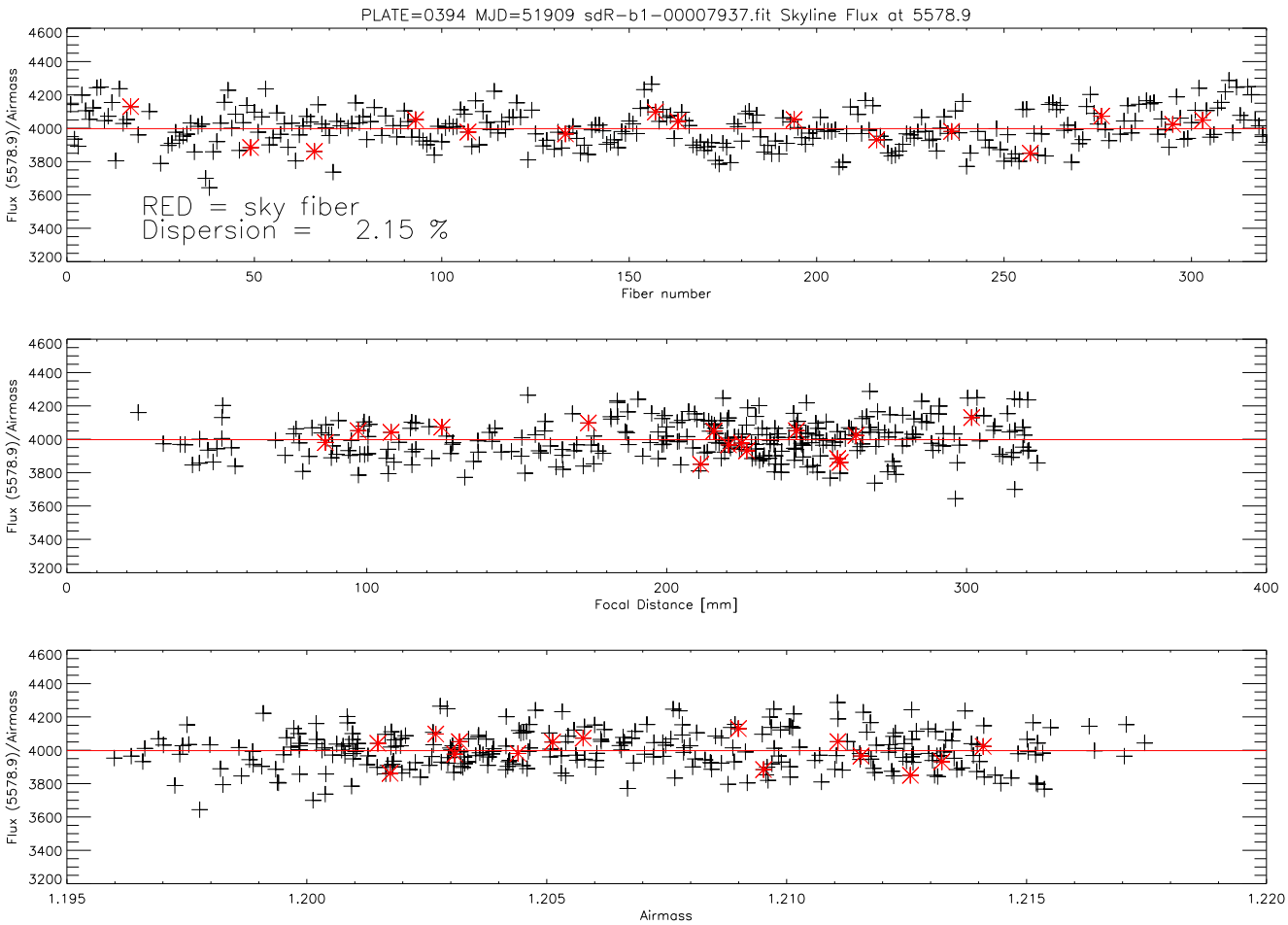

PLATE=0394 MJD=51909 sdR-b1-00007937.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

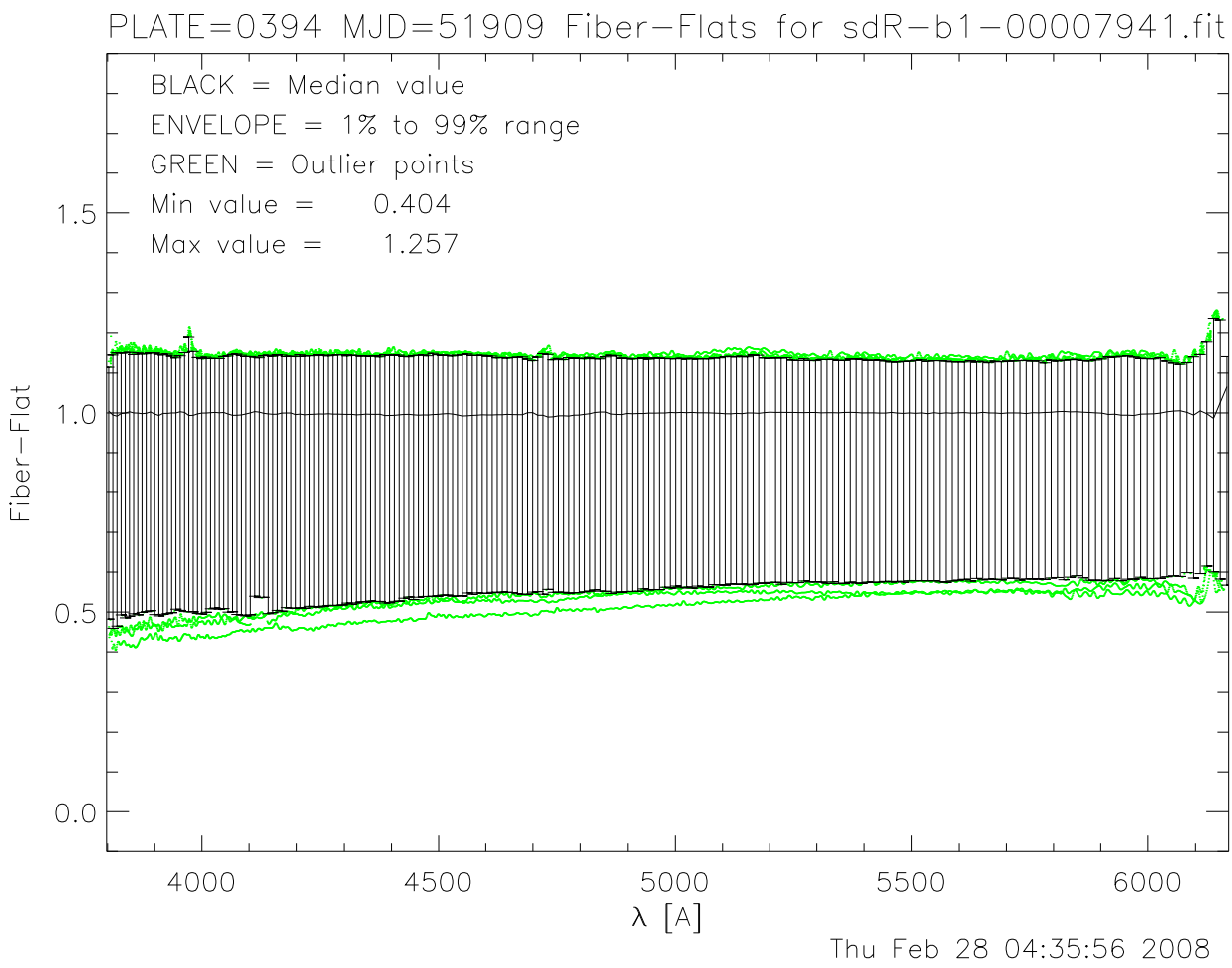

PLATE=0394 MJD=51909 sdR-b1-00007937.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

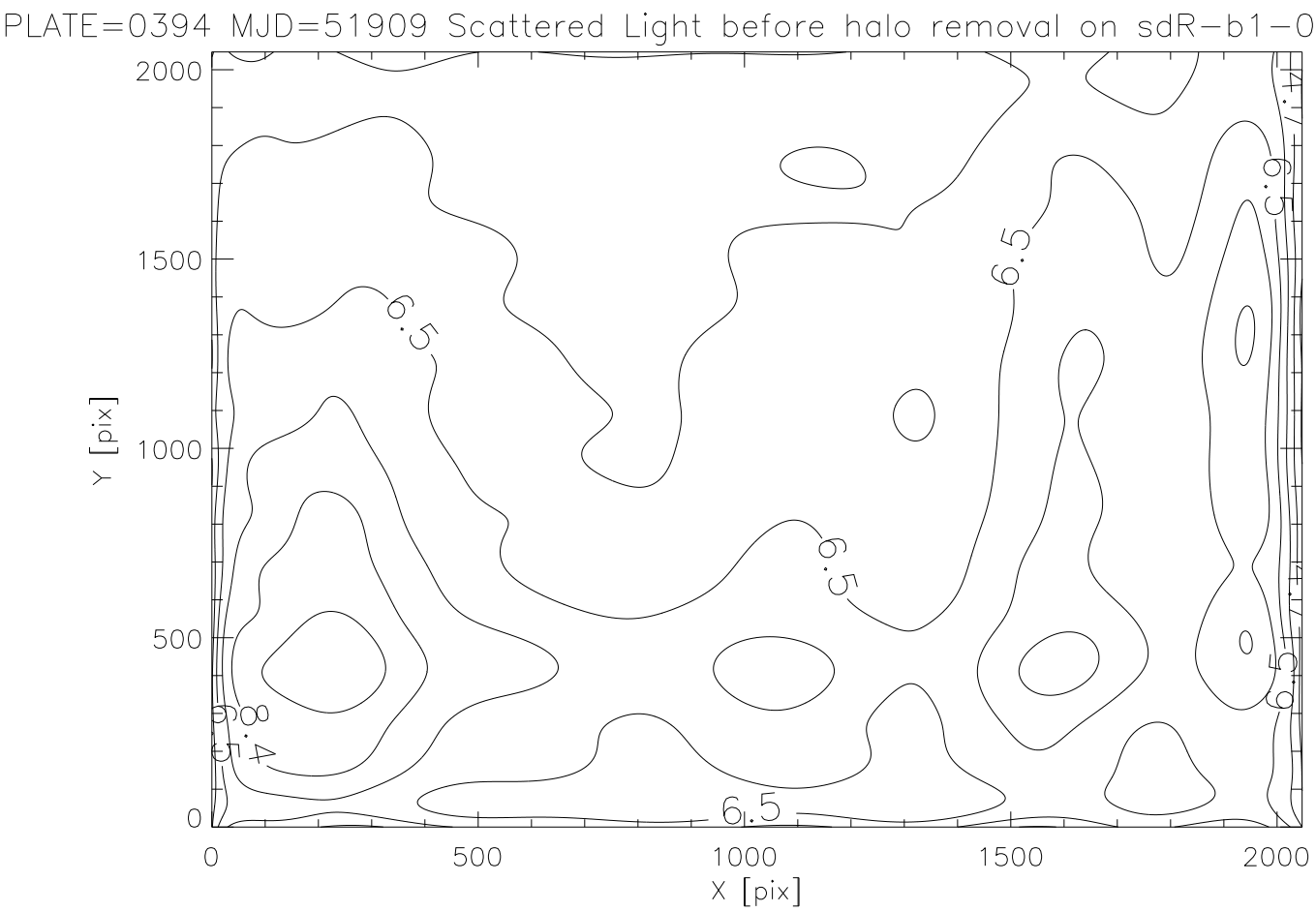

PLATE=0394 MJD=51909 sdR-b1-00007937.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
-200
5570
5575
5580
5585
5590
λ [A]

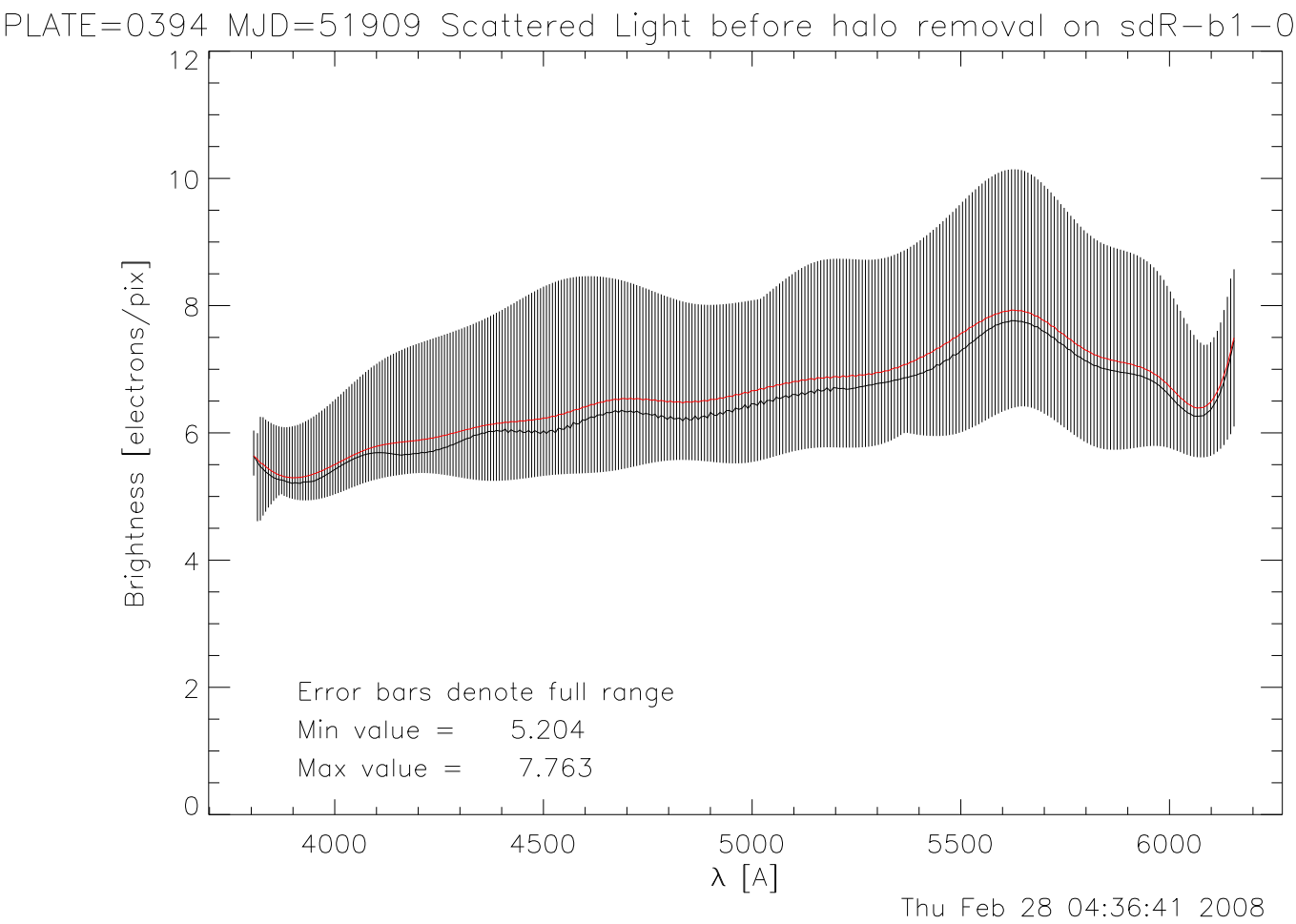

Number of sky fibers = 15
PLATE=0394 MJD=51909 sdR-b1-00007937.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

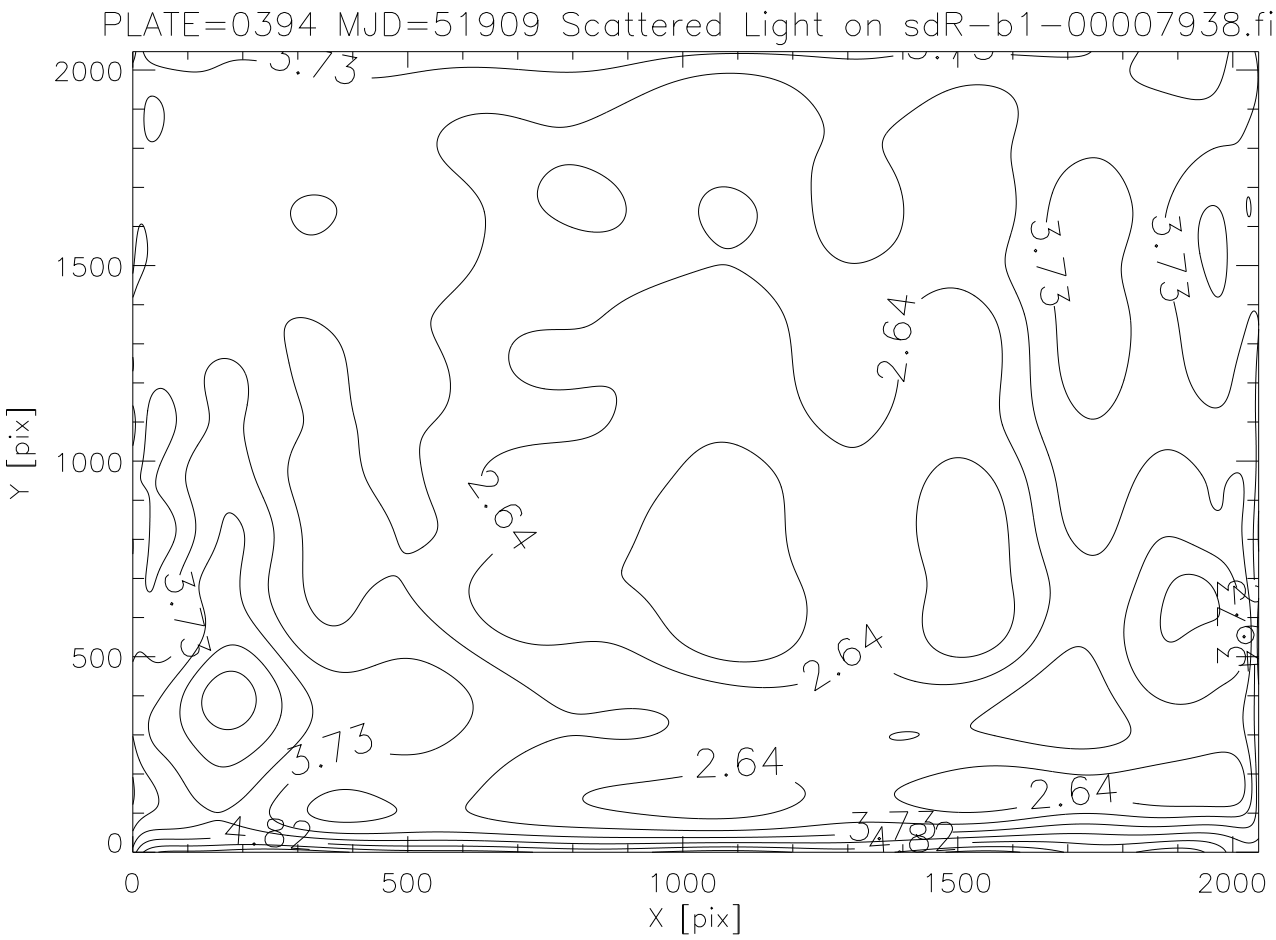

PLATE=0394 MJD=51909 sdR-b1-00007937.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 14.20 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

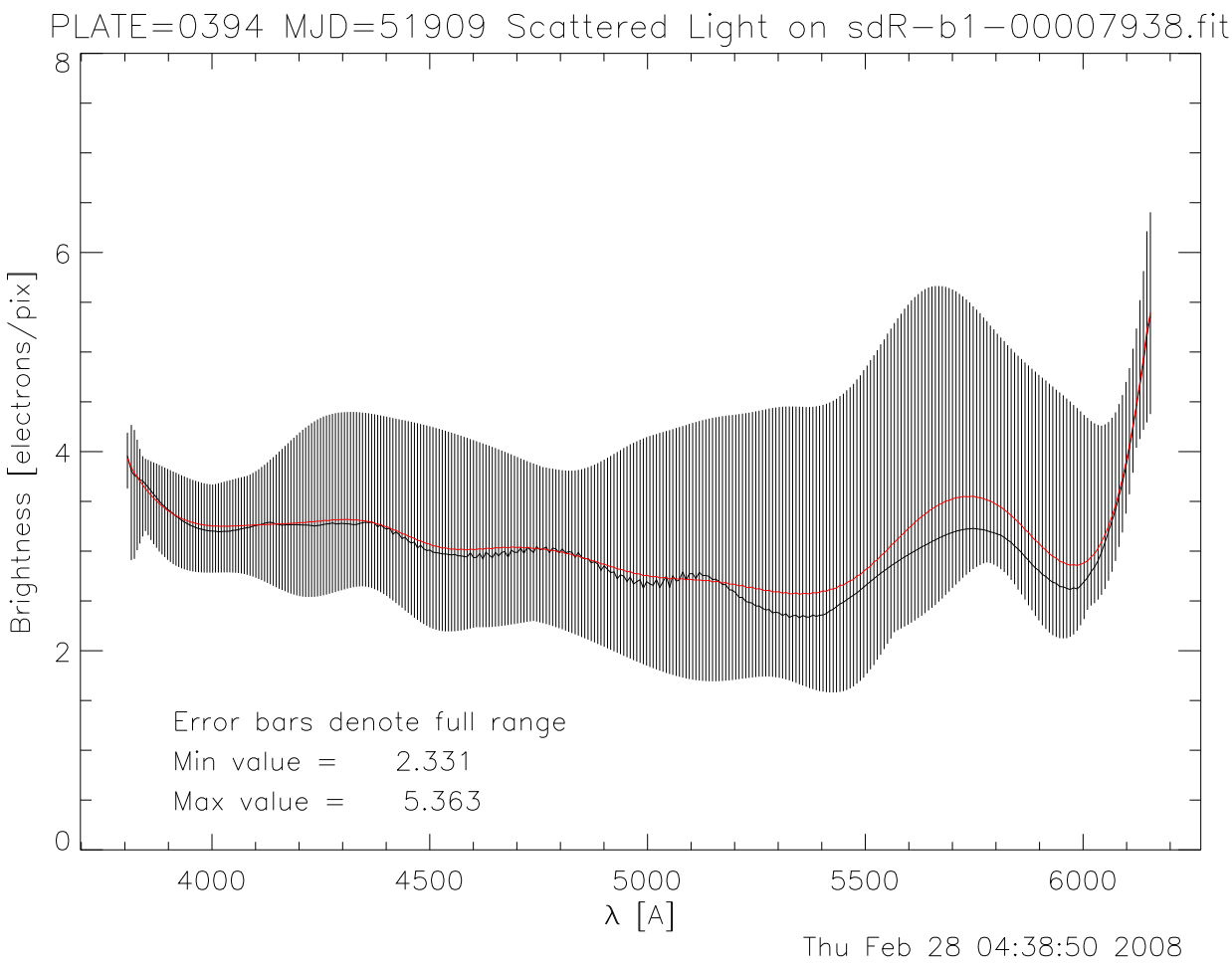

PLATE=0394 MJD=51909 sdR-b1-00007937.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.15 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

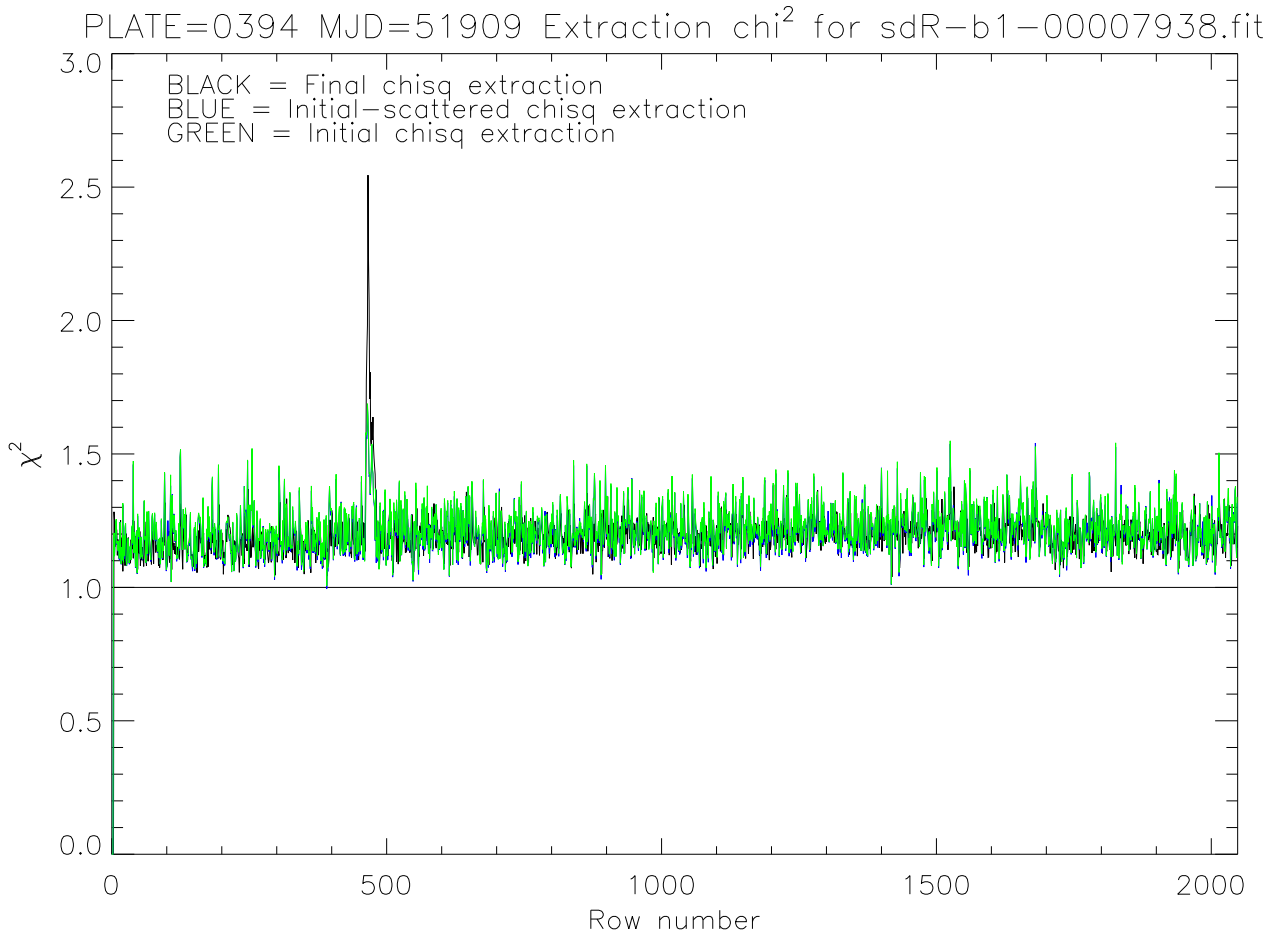

PLATE=0394 MJD=51909 Fiber-Flats for sdR-b1-00007941.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.404
Max value = 1.257
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Thu Feb 28 04:35:56 2008

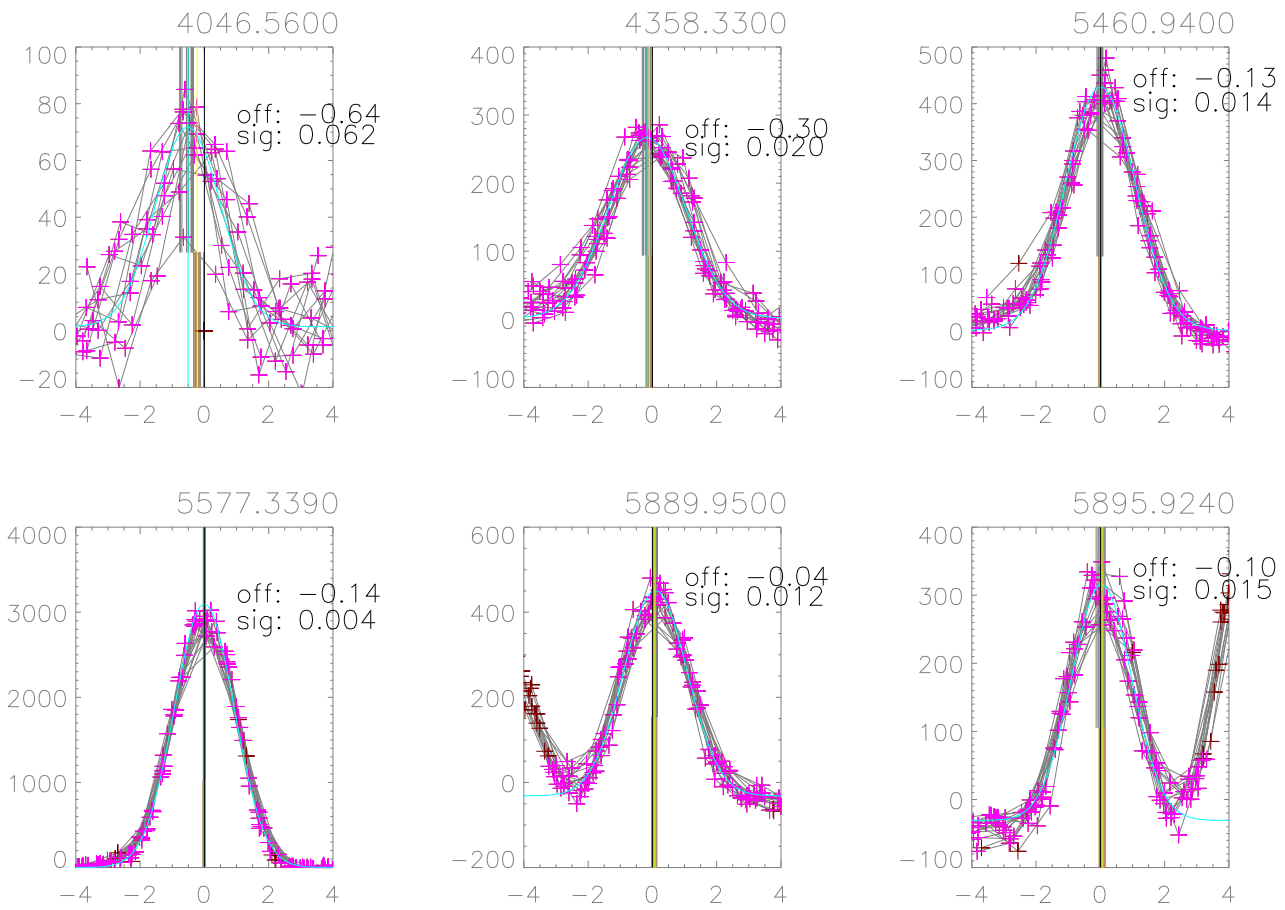

PLATE=0394 MJD=51909 Scattered Light before halo removal on sdR-b1-00007938.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
6.5
6.5
6.5
6.5
6.5
6.5
6.4
6.5
6.5
0

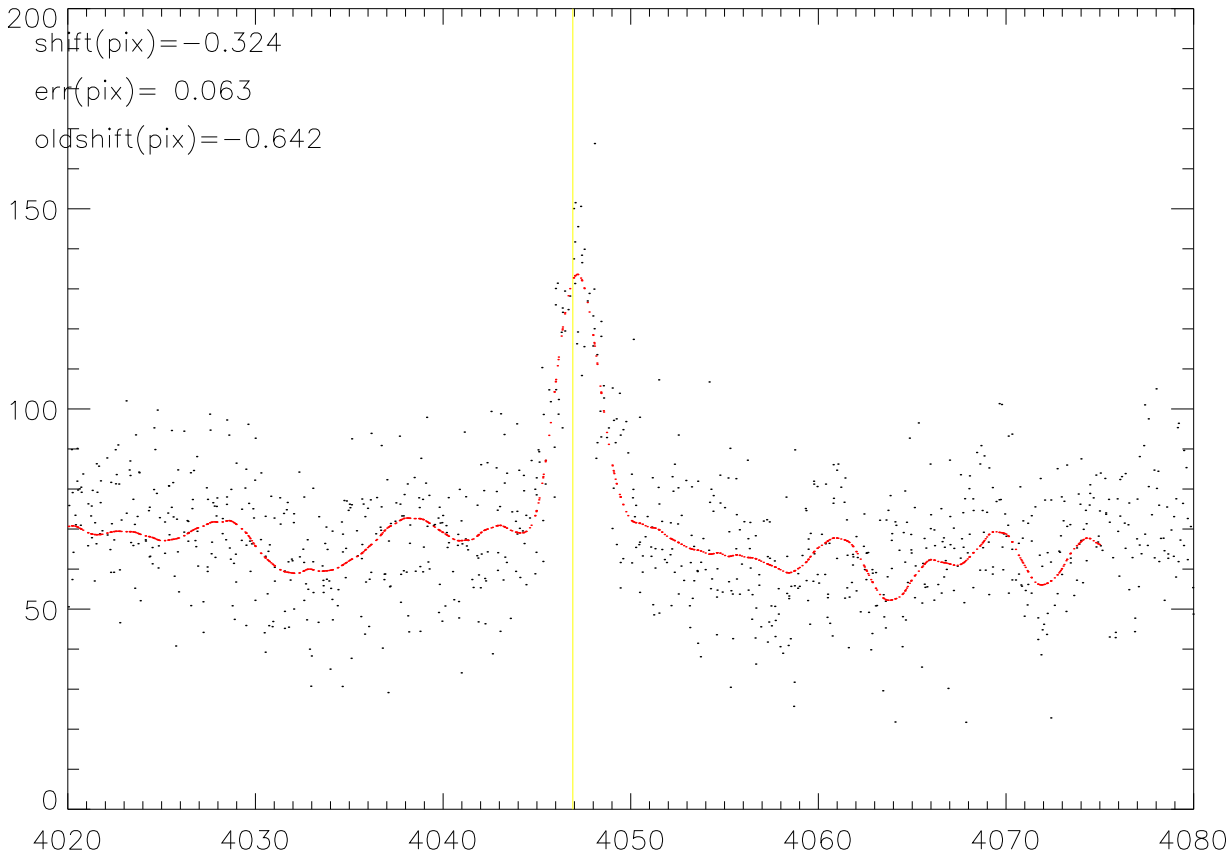

PLATE=0394 MJD=51909 Scattered Light before halo removal on sdR-b1-00007938.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.204
Max value = 7.763
Thu Feb 28 04:36:41 2008

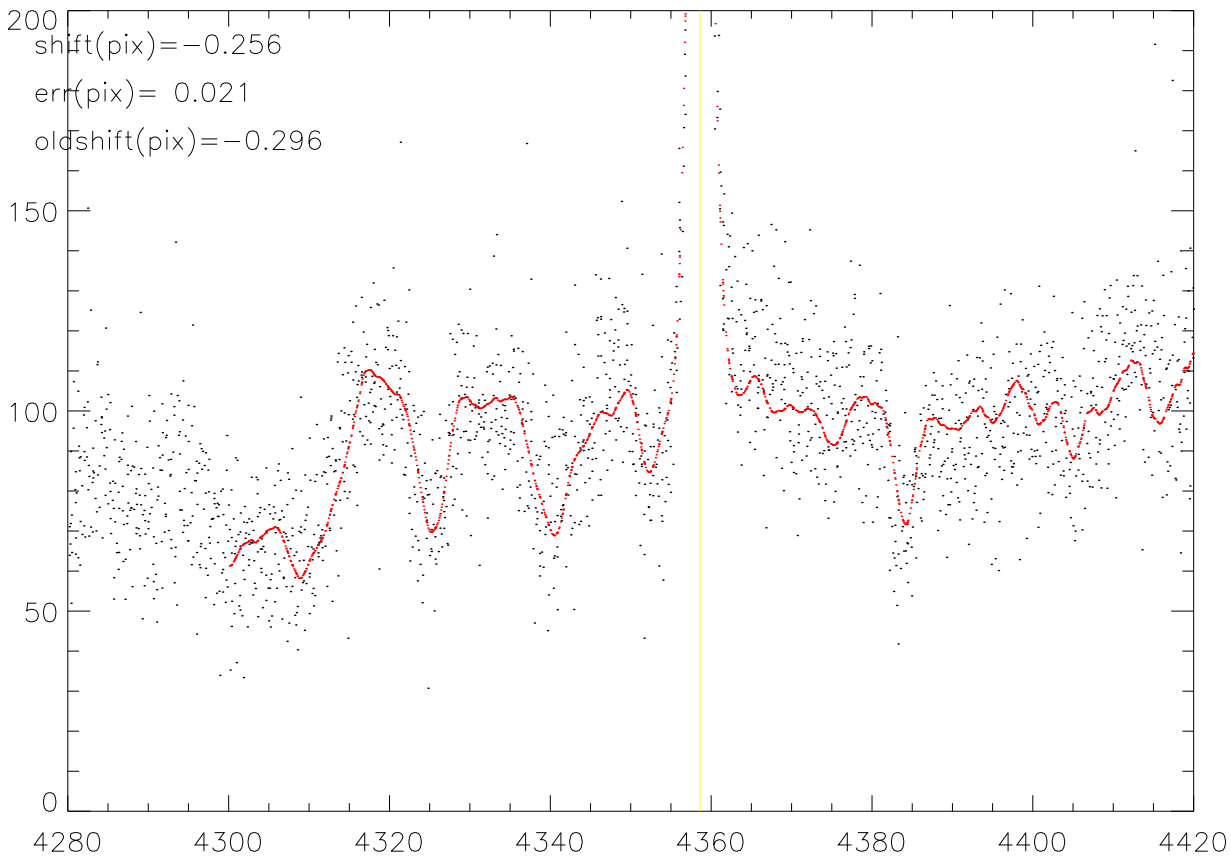

PLATE=0394 MJD=51909 Scattered Light on sdR-b1-00007938.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
3.73
2.64
4.82

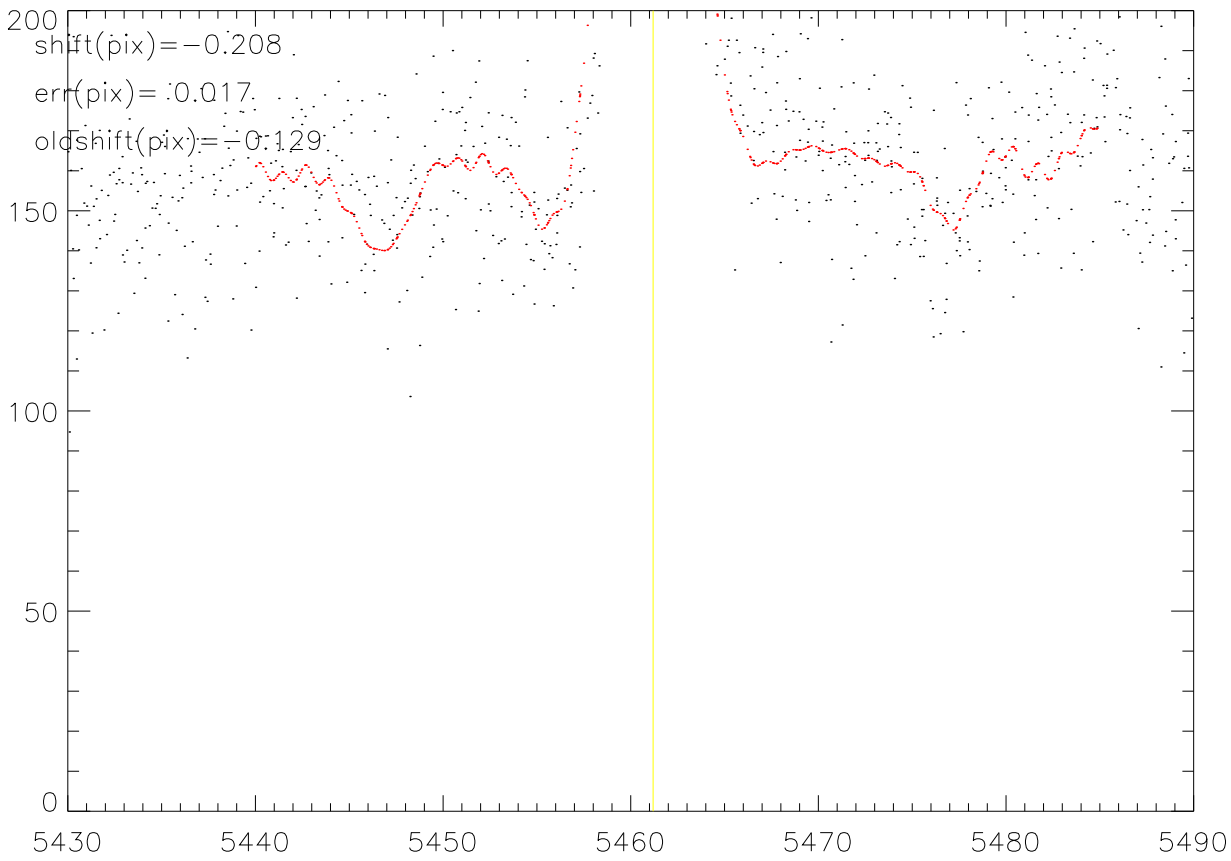

PLATE=0394 MJD=51909 Scattered Light on sdR-b1-00007938.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 2.331
Max value = 5.363
Thu Feb 28 04:38:50 2008

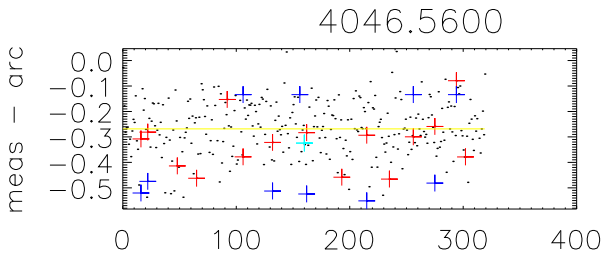

PLATE=0394 MJD=51909 Extraction chi^2 for sdR-b1-00007938.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

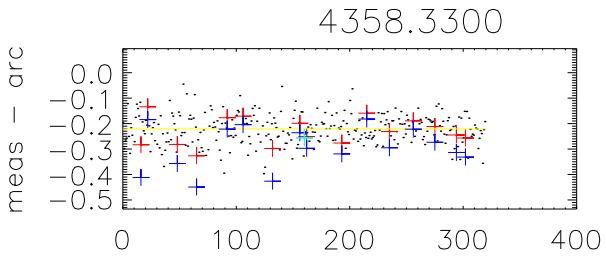

4046.5600
off: −0.64
sig: 0.062
4358.3300
off: −0.30
sig: 0.020
5460.9400
off: −0.13
sig: 0.014
5577.3390
off: −0.14
sig: 0.004
5889.9500
off: −0.04
sig: 0.012
5895.9240
off: −0.10
sig: 0.015

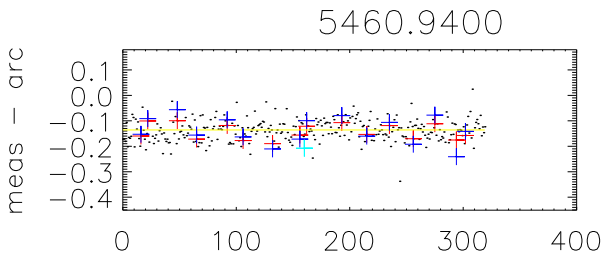

shift(pix)=−0.324
err(pix)= 0.063
oldshift(pix)=−0.642
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

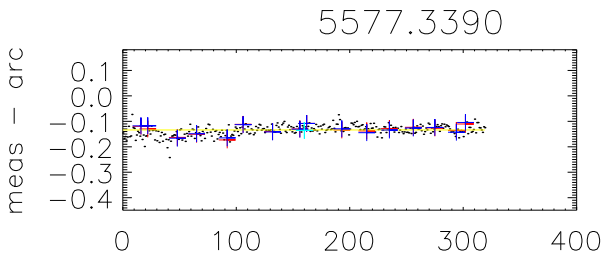

shift(pix)=−0.256
err(pix)= 0.021
oldshift(pix)=−0.296
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

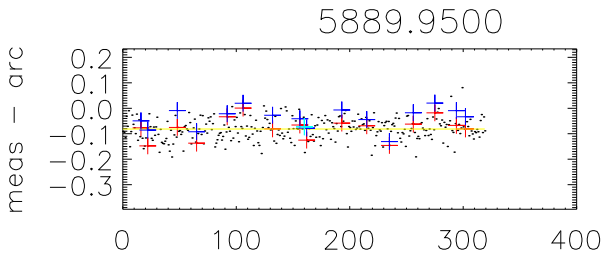

shift(pix)=−0.208
err(pix)= 0.017
oldshift(pix)=−0.129
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

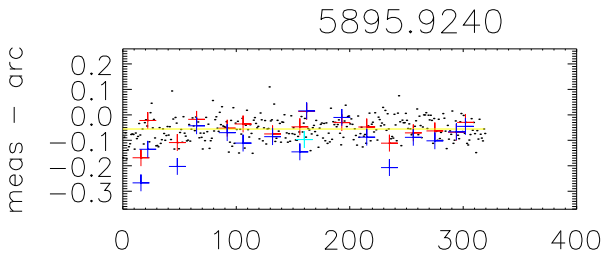

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

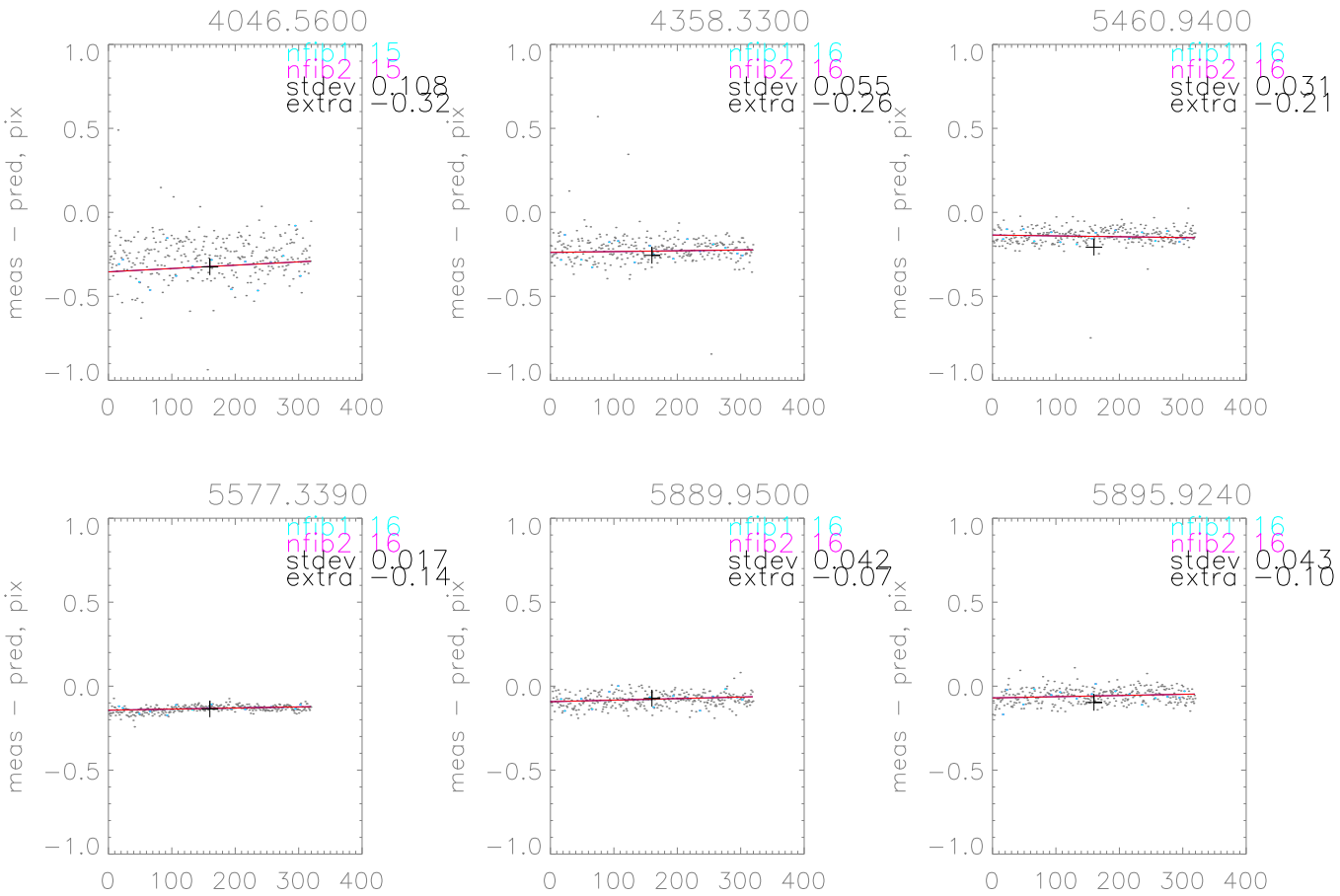

4358.3300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

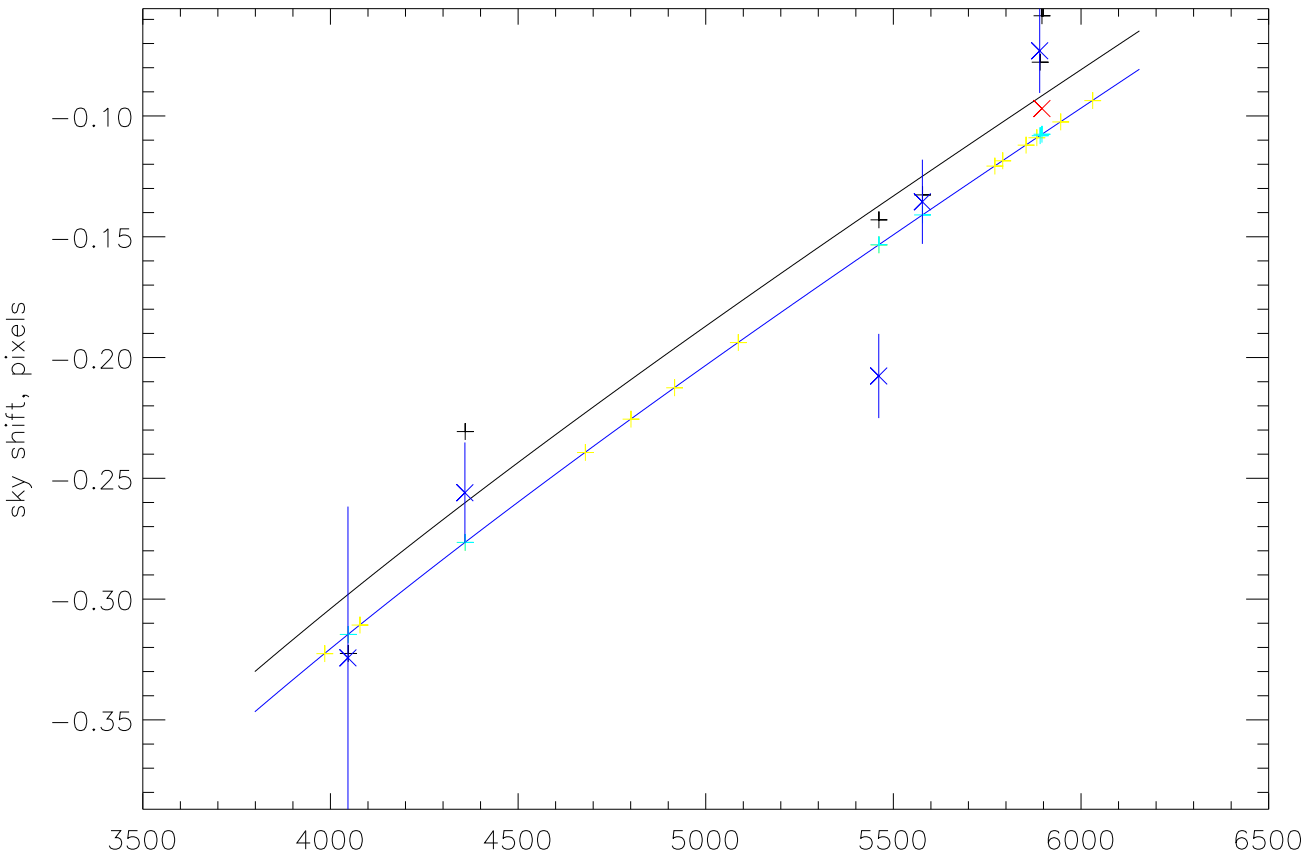

5460.9400
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


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

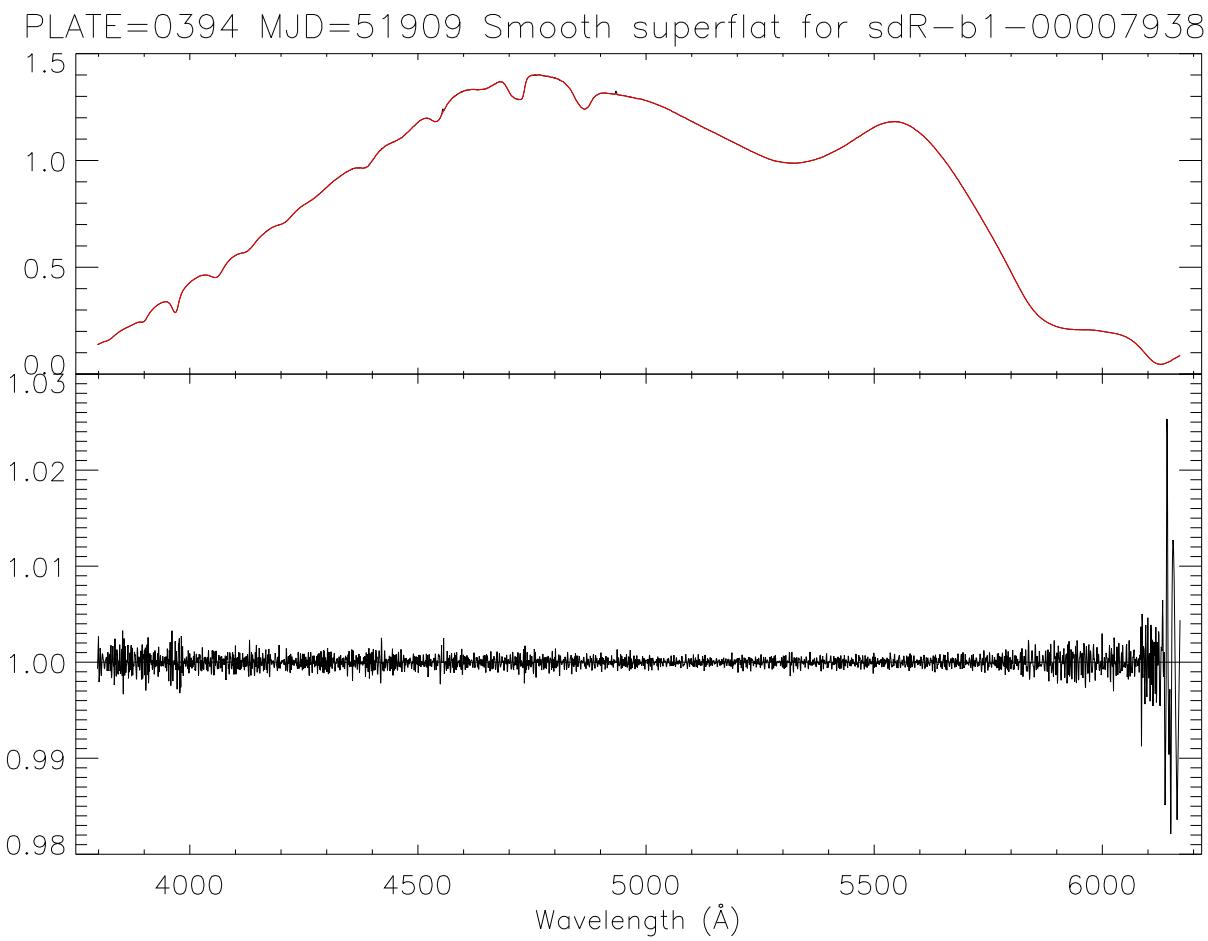

5889.9500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

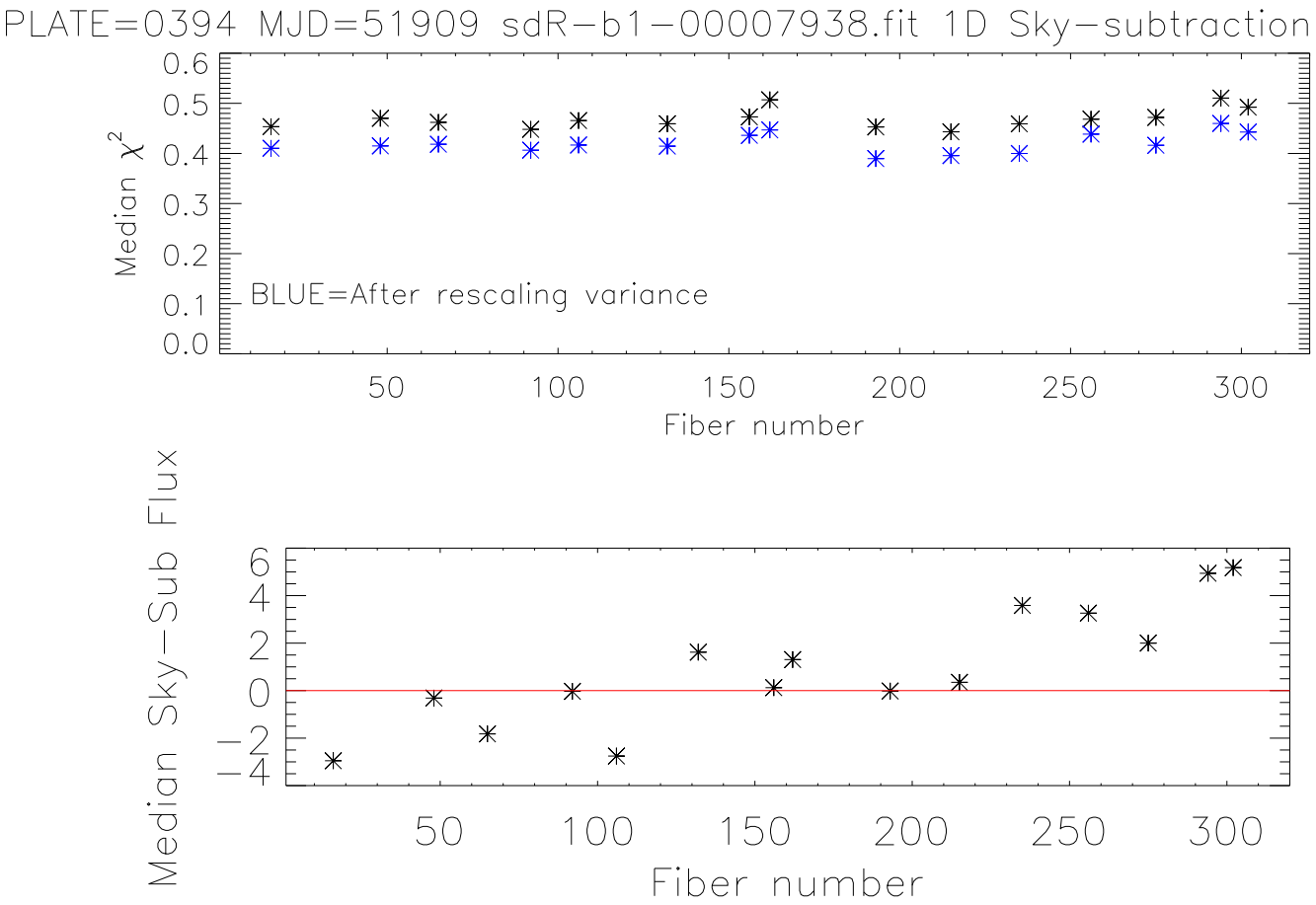

5895.9240
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

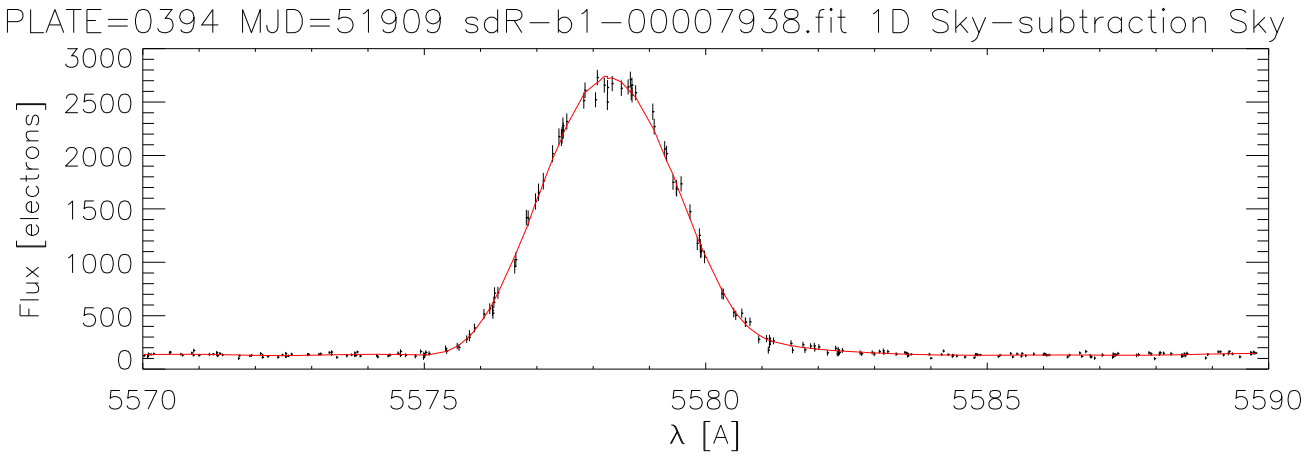

4046.5600
nfib1 15
nfib2 15
stdev 0.108
extra −0.32
4358.3300
nfib1 16
nfib2 16
stdev 0.055
extra −0.26
5460.9400
nfib1 16
nfib2 16
stdev 0.031
extra −0.21
5577.3390
nfib1 16
nfib2 16
stdev 0.017
extra −0.14
5889.9500
nfib1 16
nfib2 16
stdev 0.042
extra −0.07
5895.9240
nfib1 16
nfib2 16
stdev 0.043
extra −0.10
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

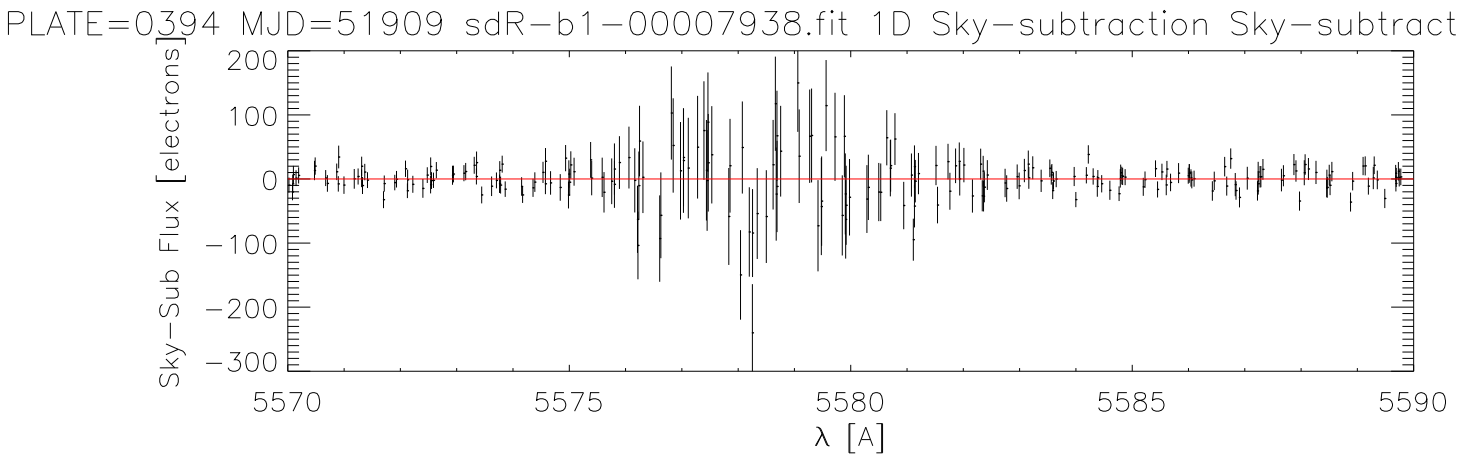

sky shift, pixels
−0.10
−0.15
−0.20
−0.25
−0.30
−0.35
3500
4000
4500
5000
5500
6000
6500

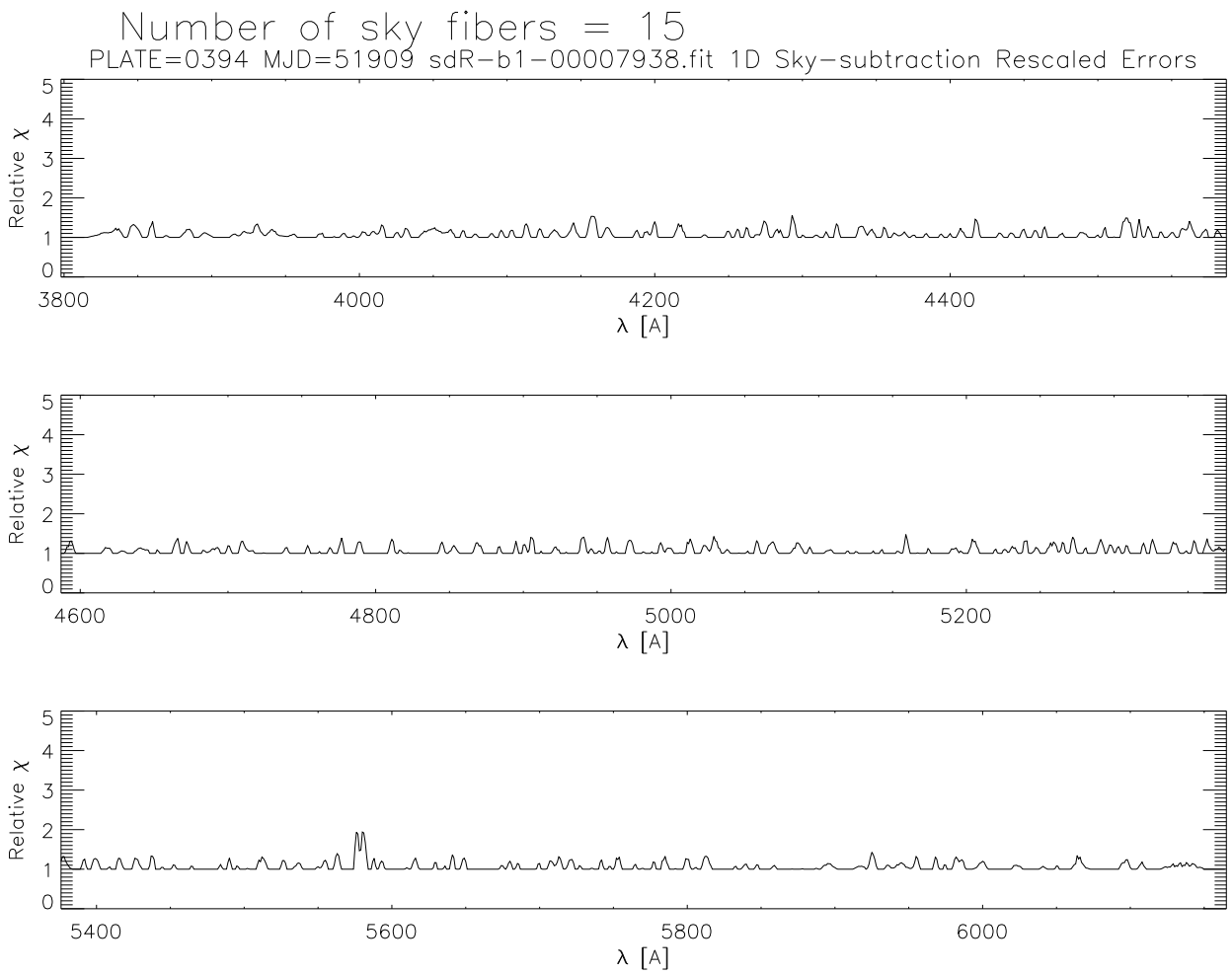
es= 0.0000

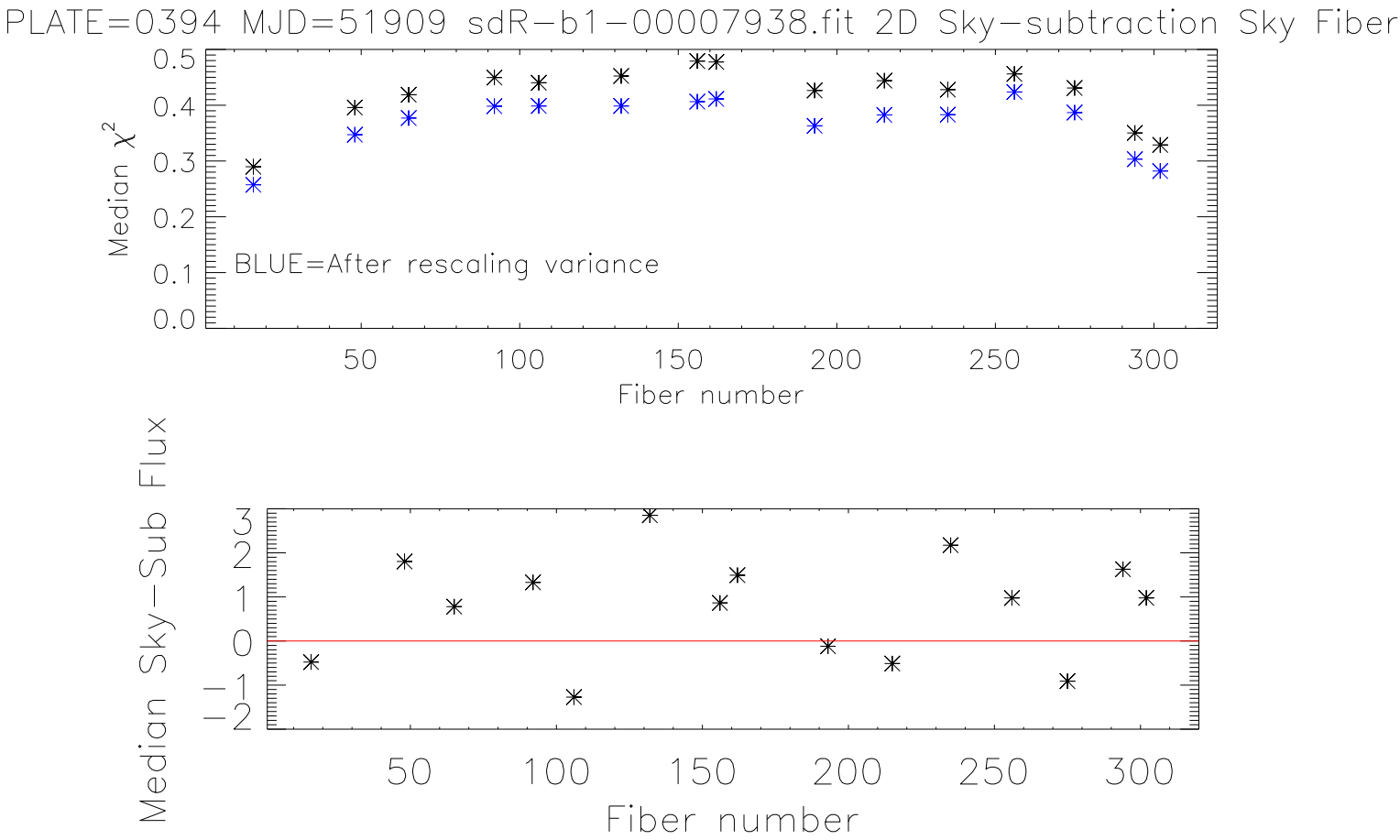

PLATE=0394 MJD=51909 Smooth superflat for sdR-b1-00007938.fit
1.5
1.0
0.5
0.0
1.03
1.02
1.01
1.00
0.99
0.98
4000
4500
5000
5500
6000
Wavelength (Å)

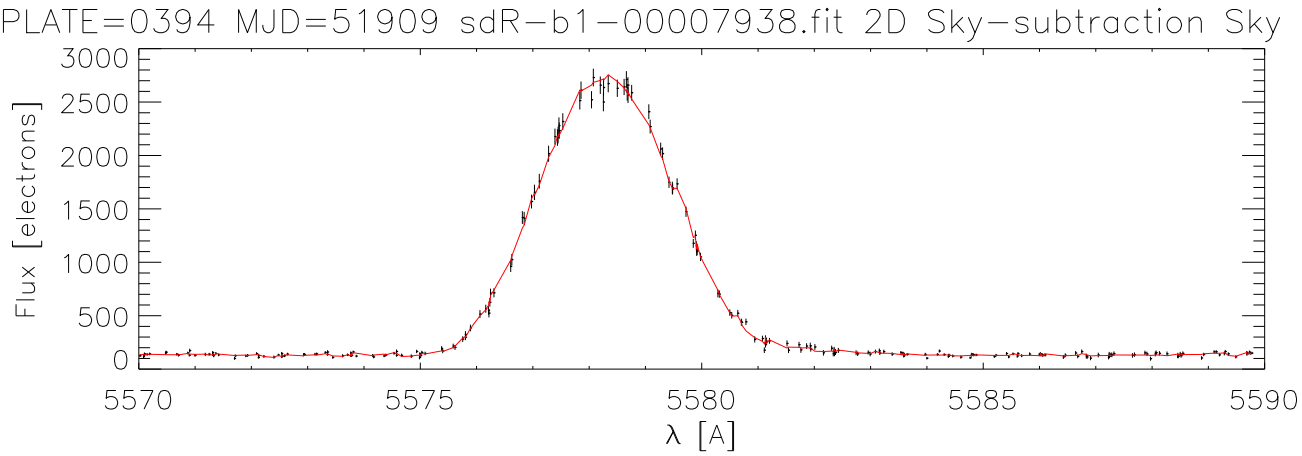

PLATE=0394 MJD=51909 sdR-b1-00007938.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

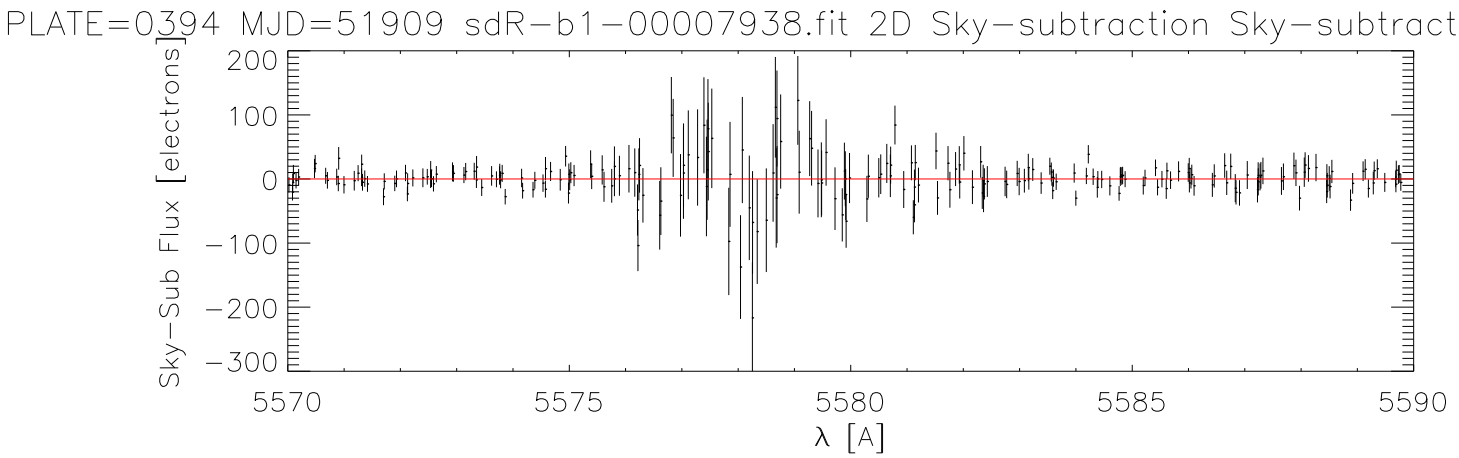

PLATE=0394 MJD=51909 sdR-b1-00007938.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

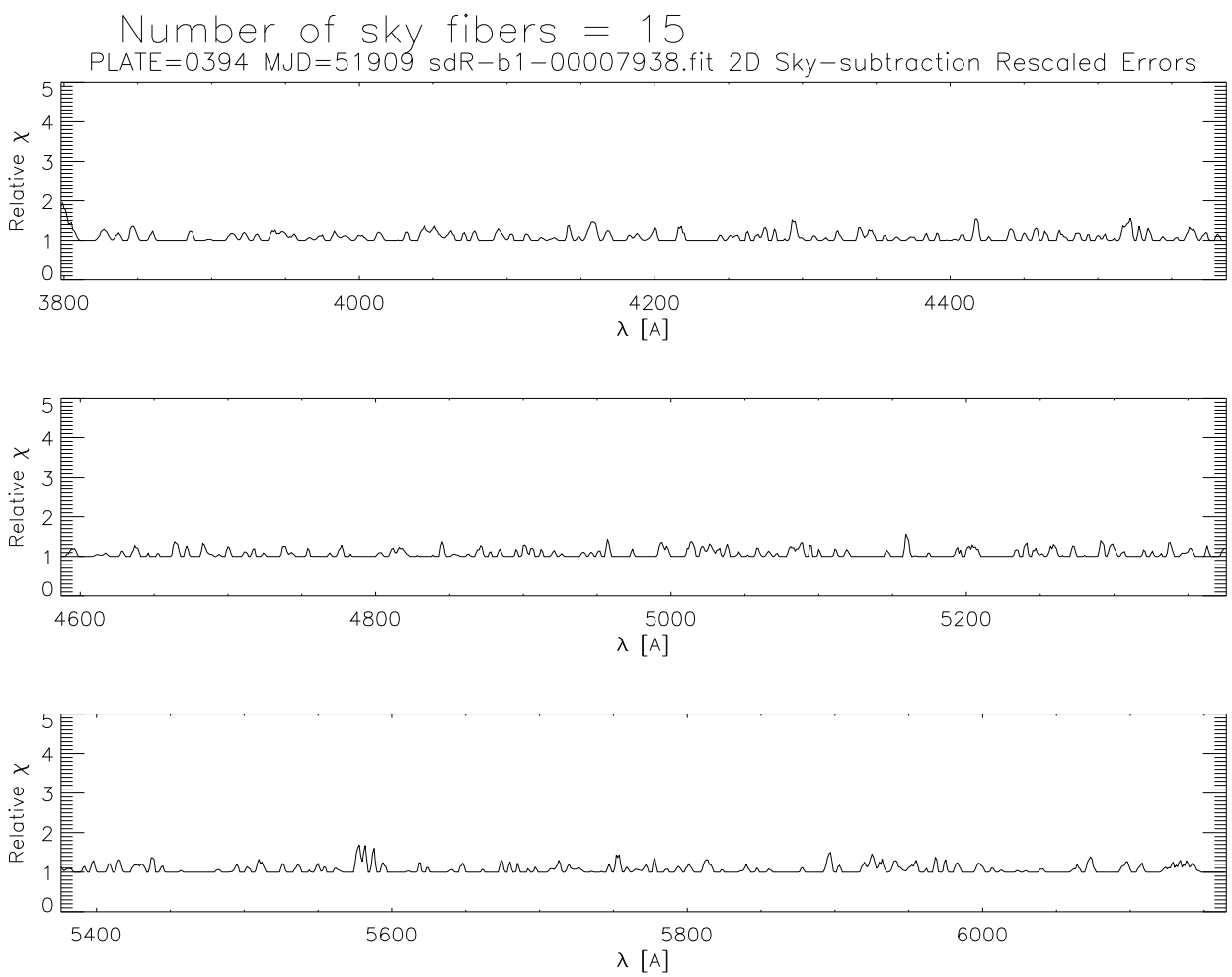

PLATE=0394 MJD=51909 sdR-b1-00007938.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

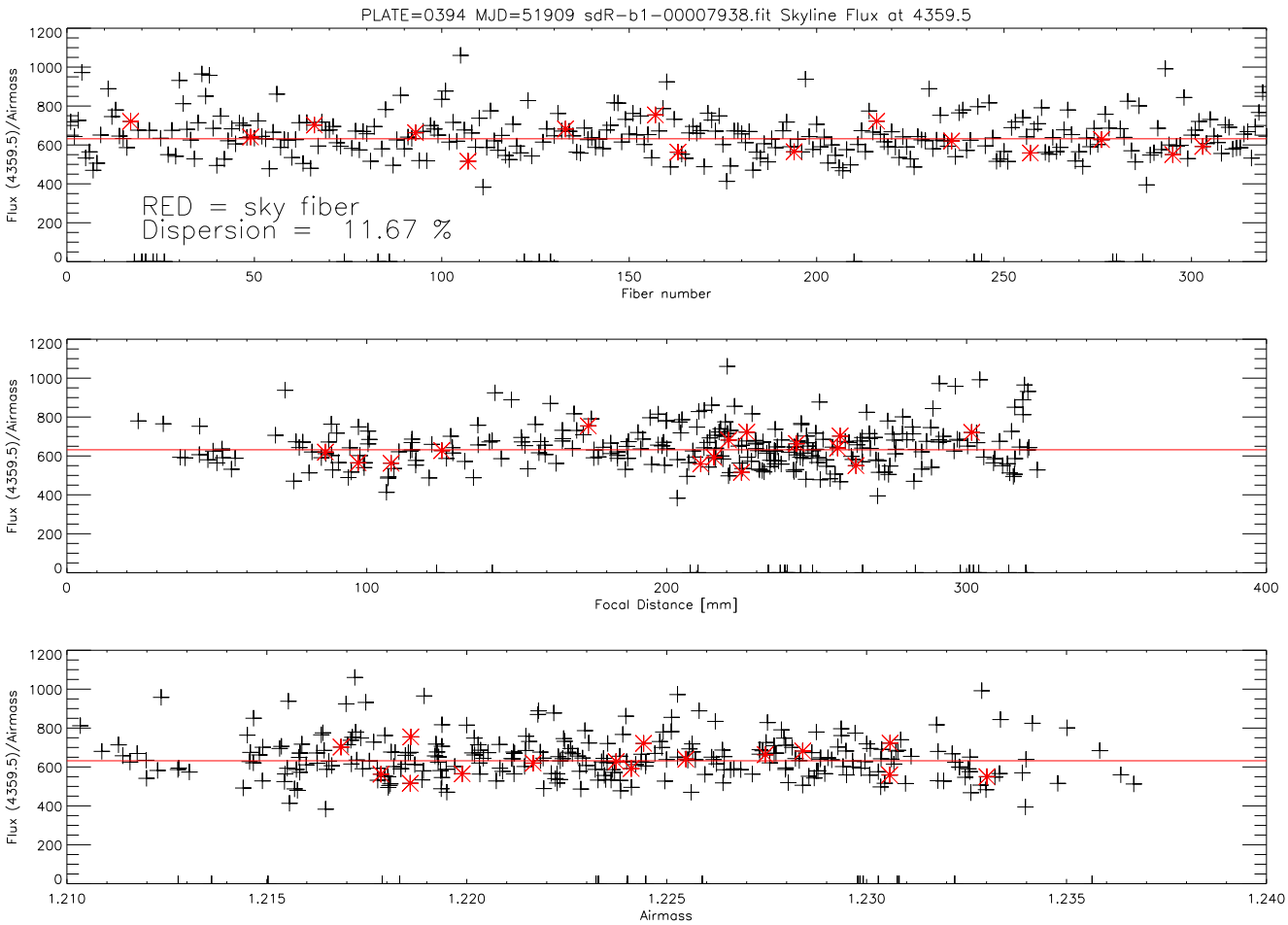

Number of sky fibers = 15
PLATE=0394 MJD=51909 sdR-b1-00007938.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

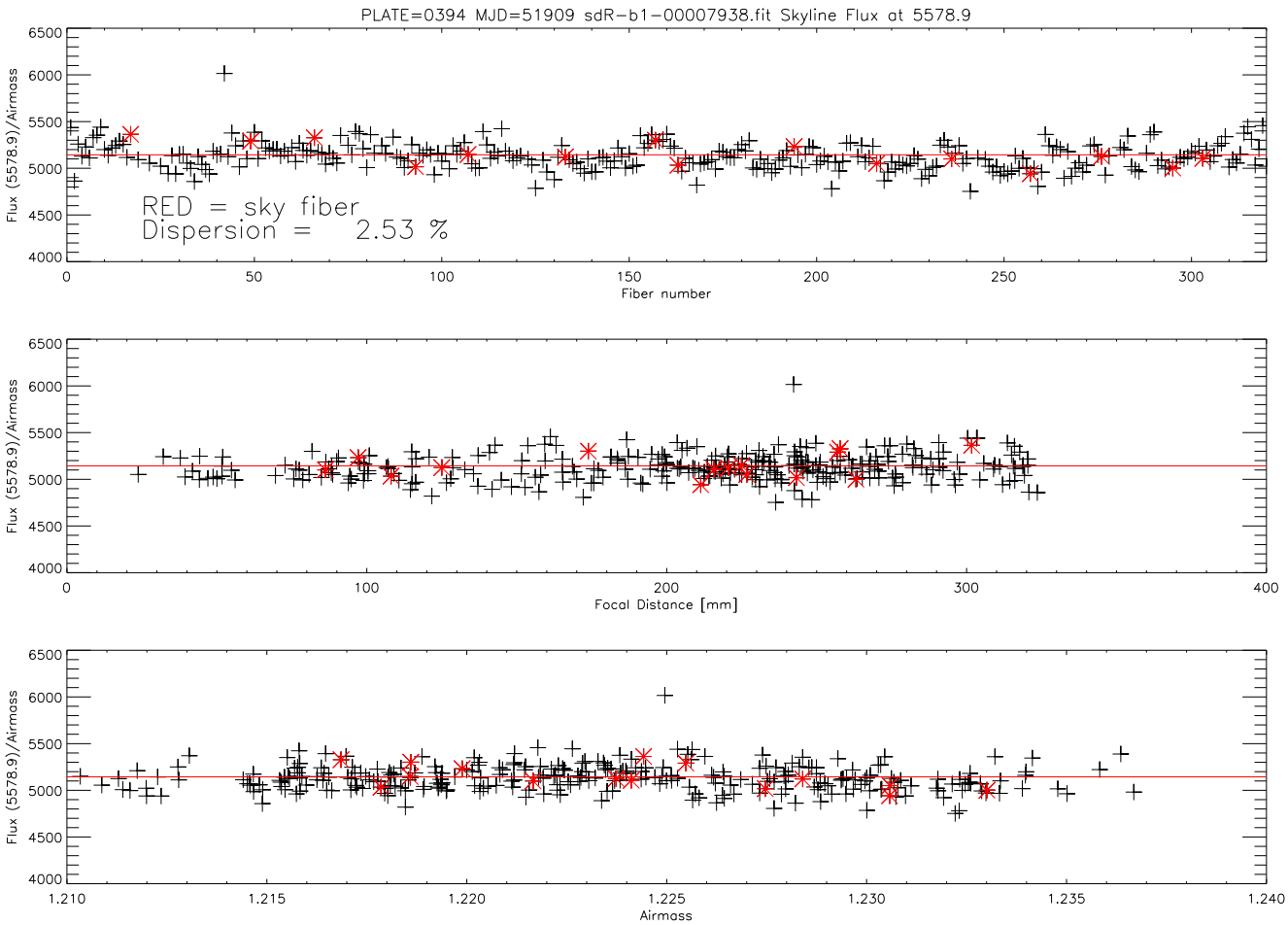

PLATE=0394 MJD=51909 sdR-b1-00007938.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

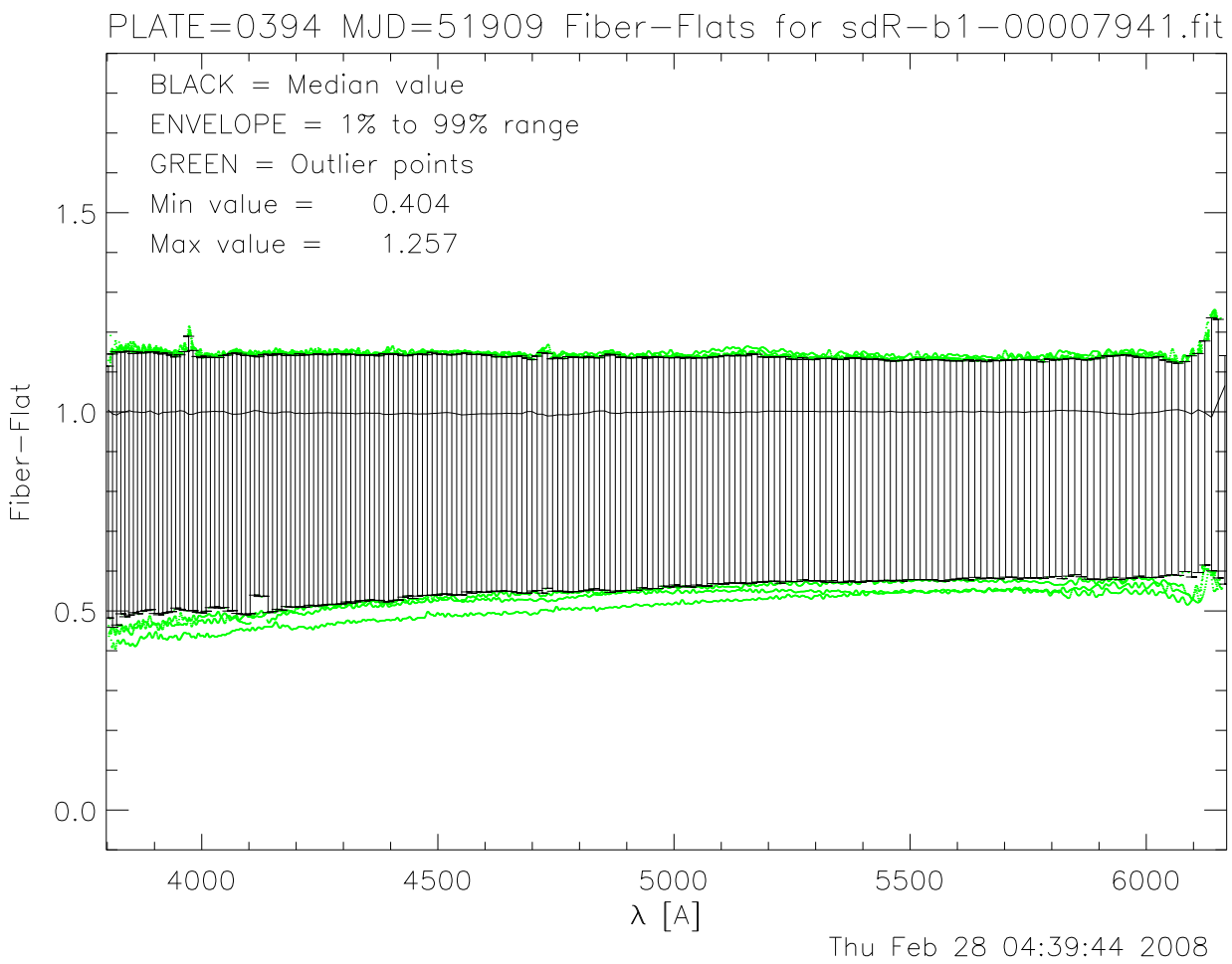

PLATE=0394 MJD=51909 sdR-b1-00007938.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

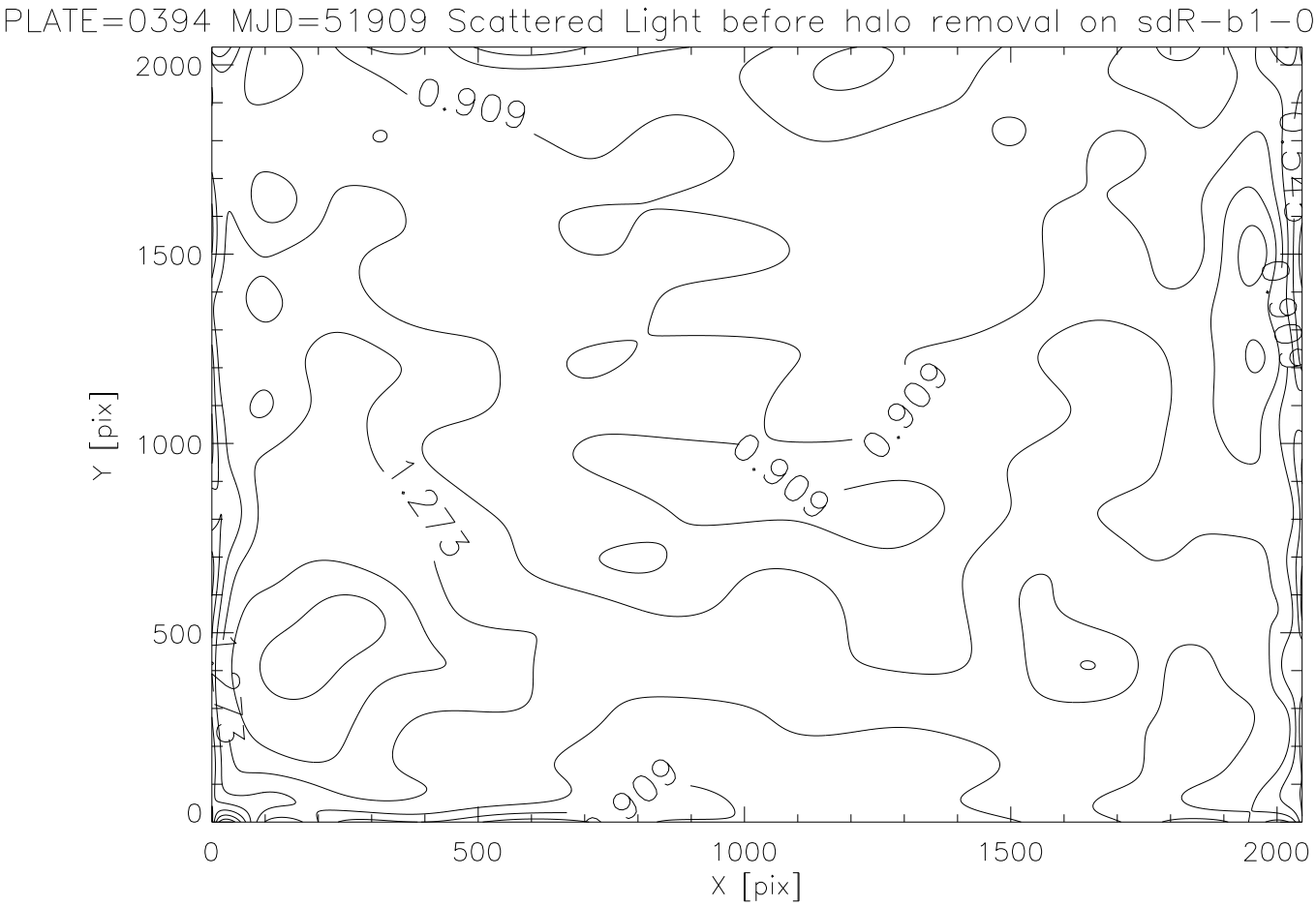

PLATE=0394 MJD=51909 sdR-b1-00007938.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

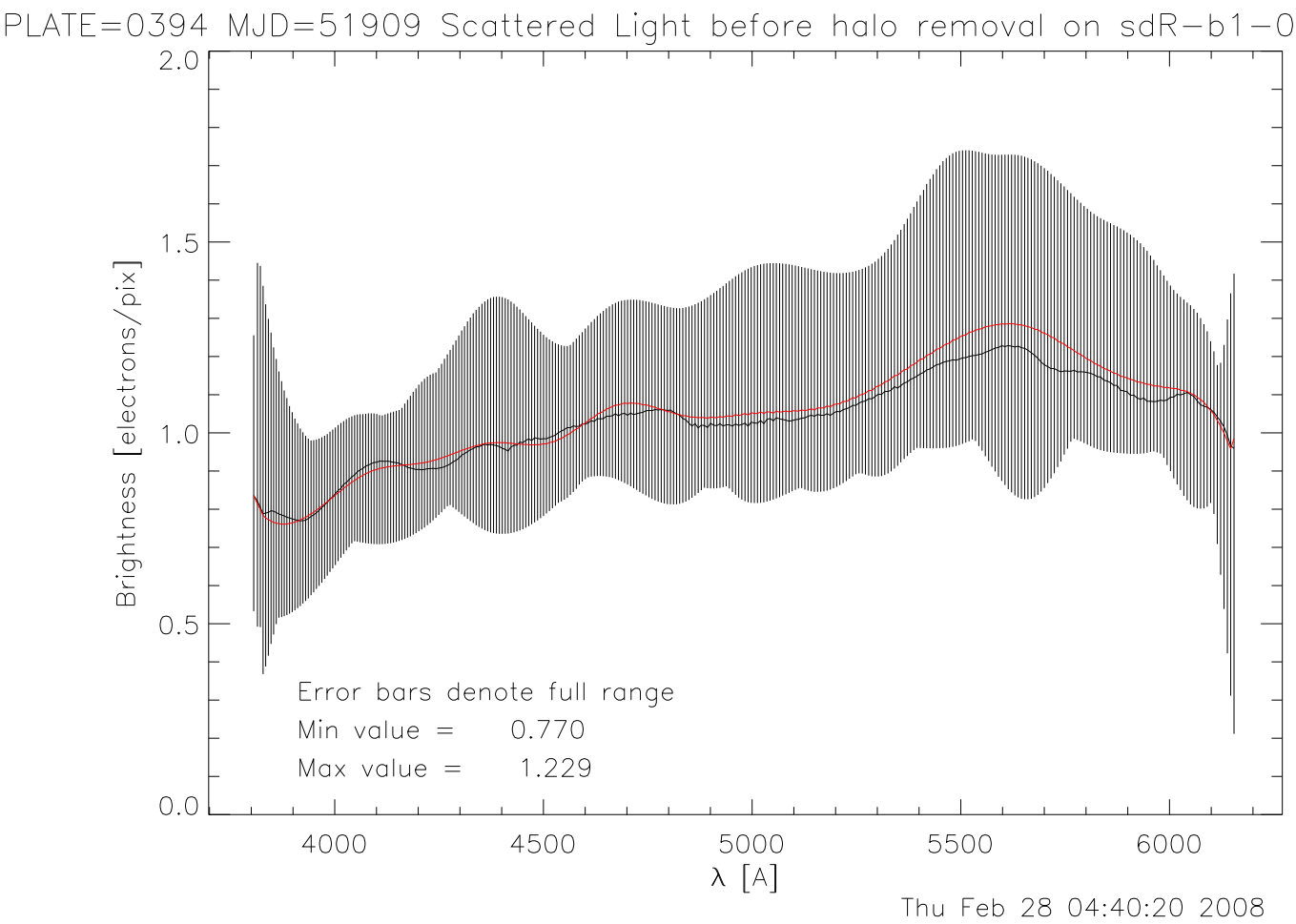

Number of sky fibers = 15
PLATE=0394 MJD=51909 sdR-b1-00007938.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

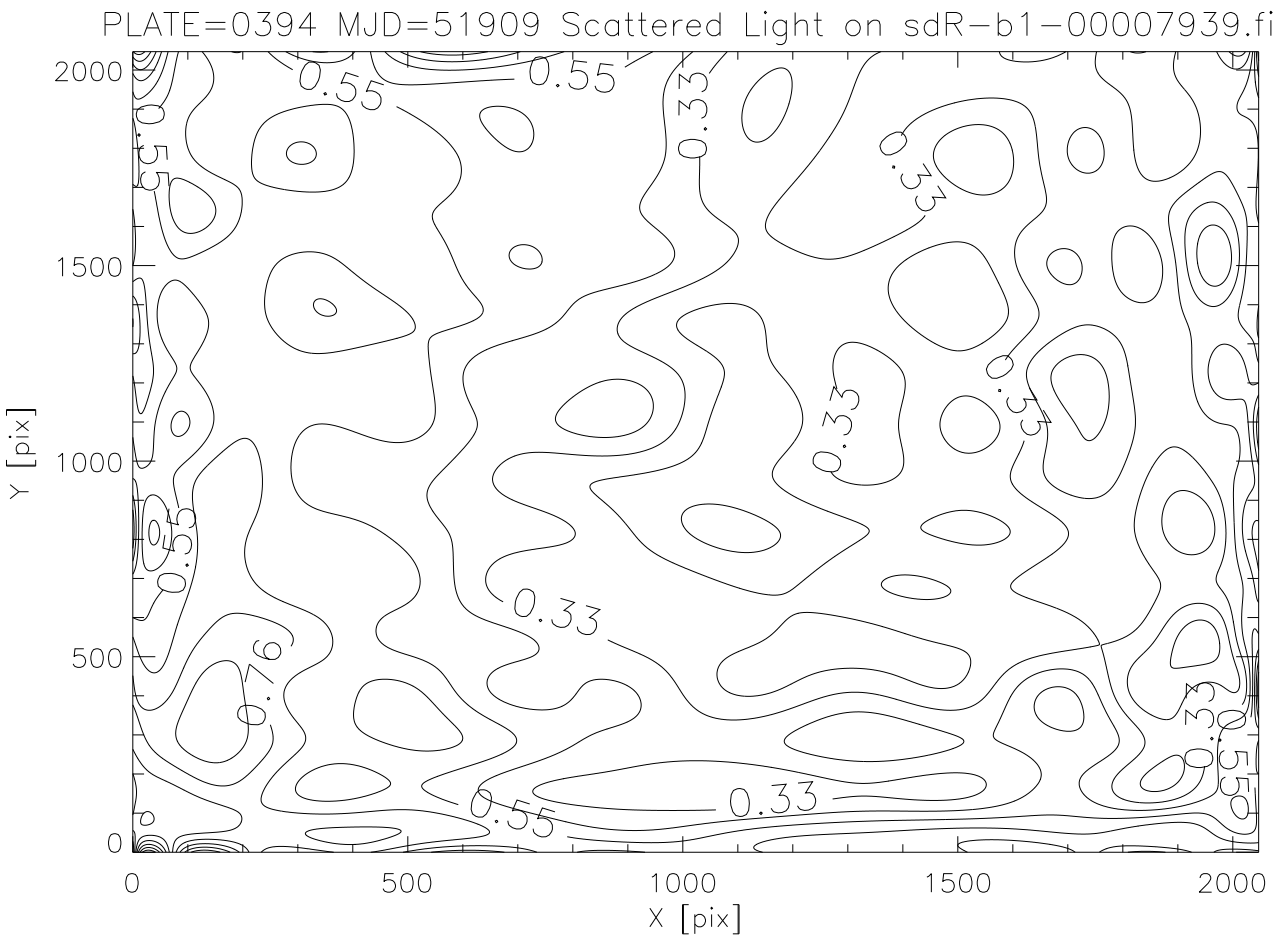

PLATE=0394 MJD=51909 sdR-b1-00007938.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 11.67 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

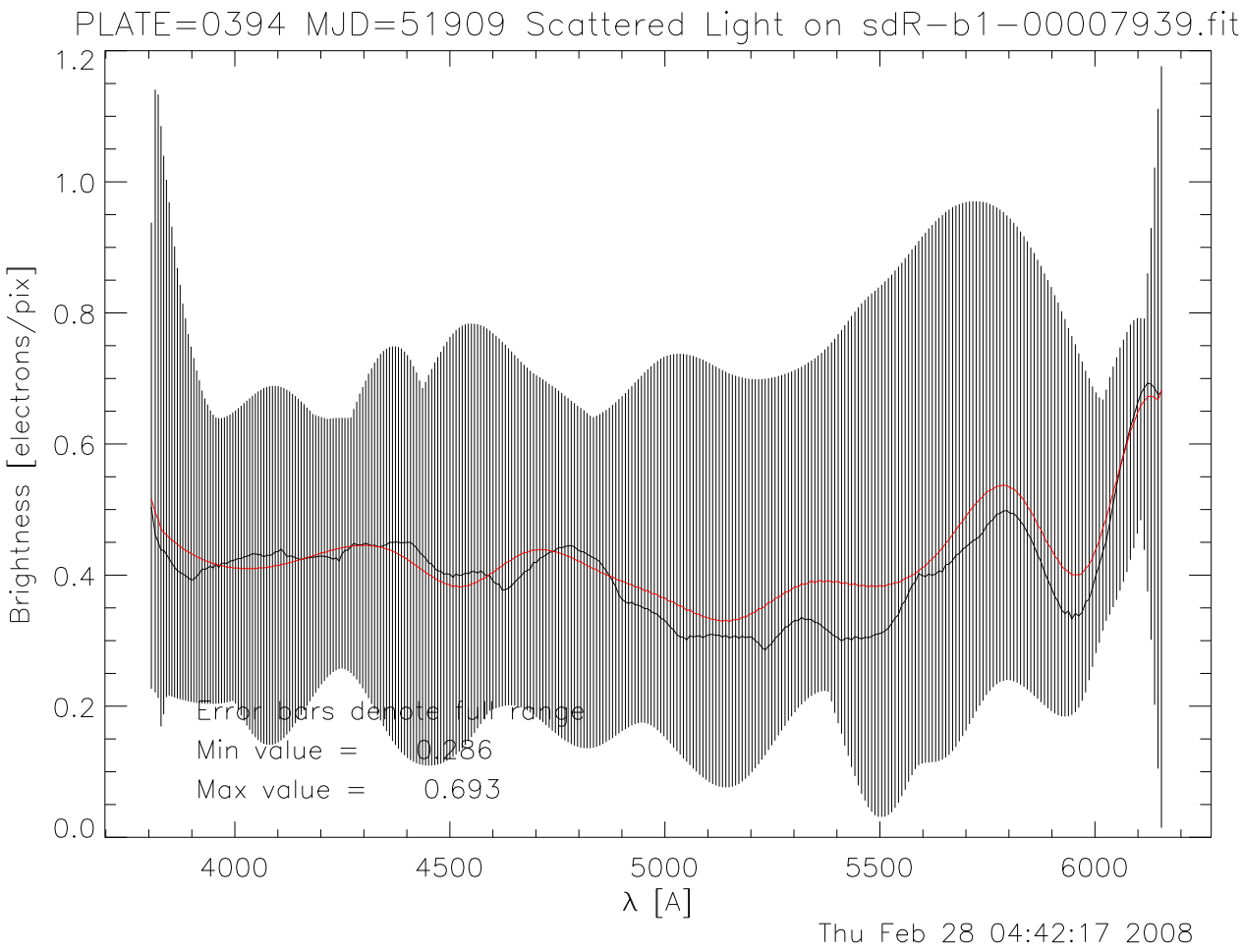

PLATE=0394 MJD=51909 sdR-b1-00007938.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.53 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

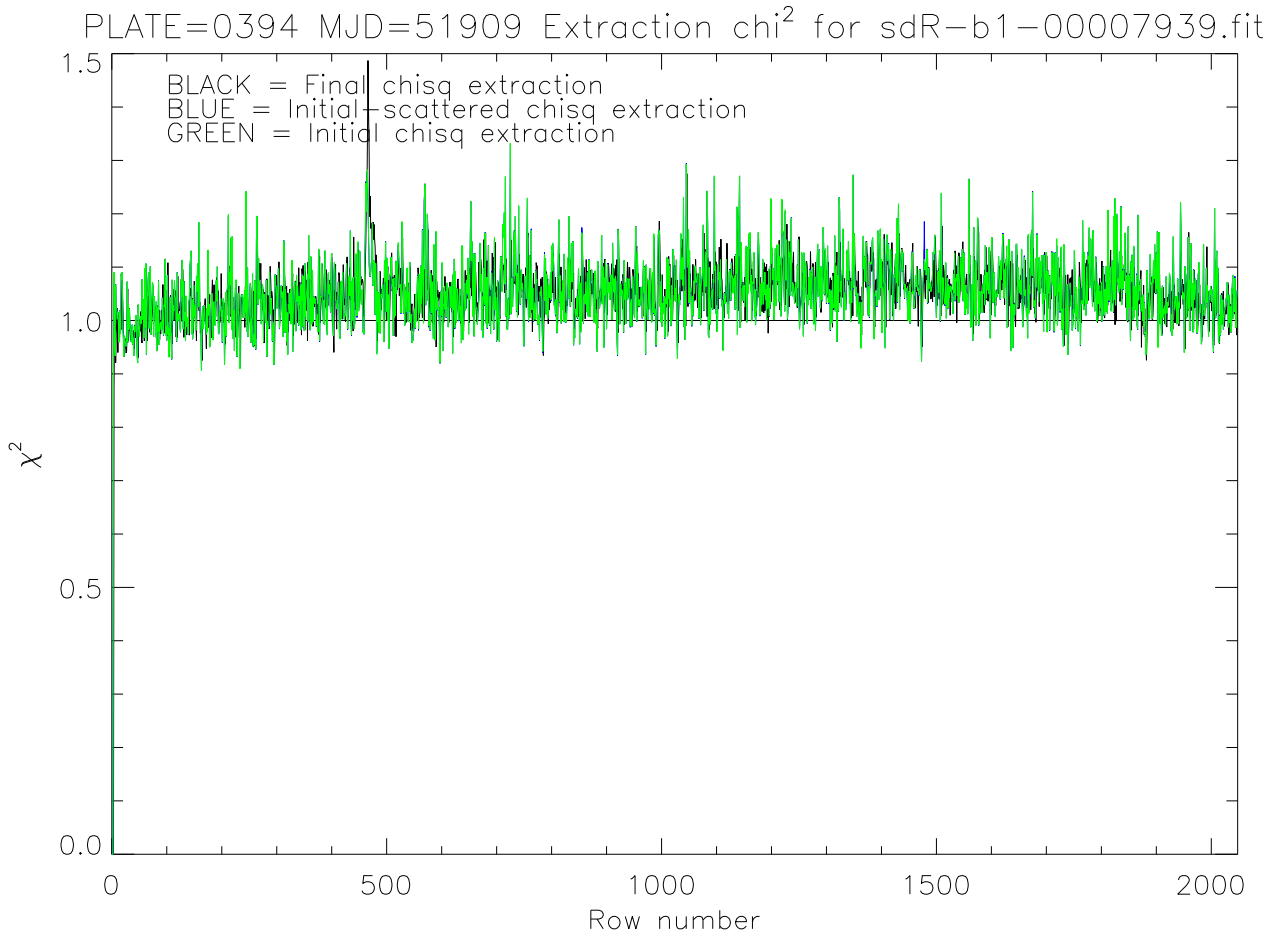

PLATE=0394 MJD=51909 Fiber-Flats for sdR-b1-00007941.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.404
Max value = 1.257
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Thu Feb 28 04:39:44 2008

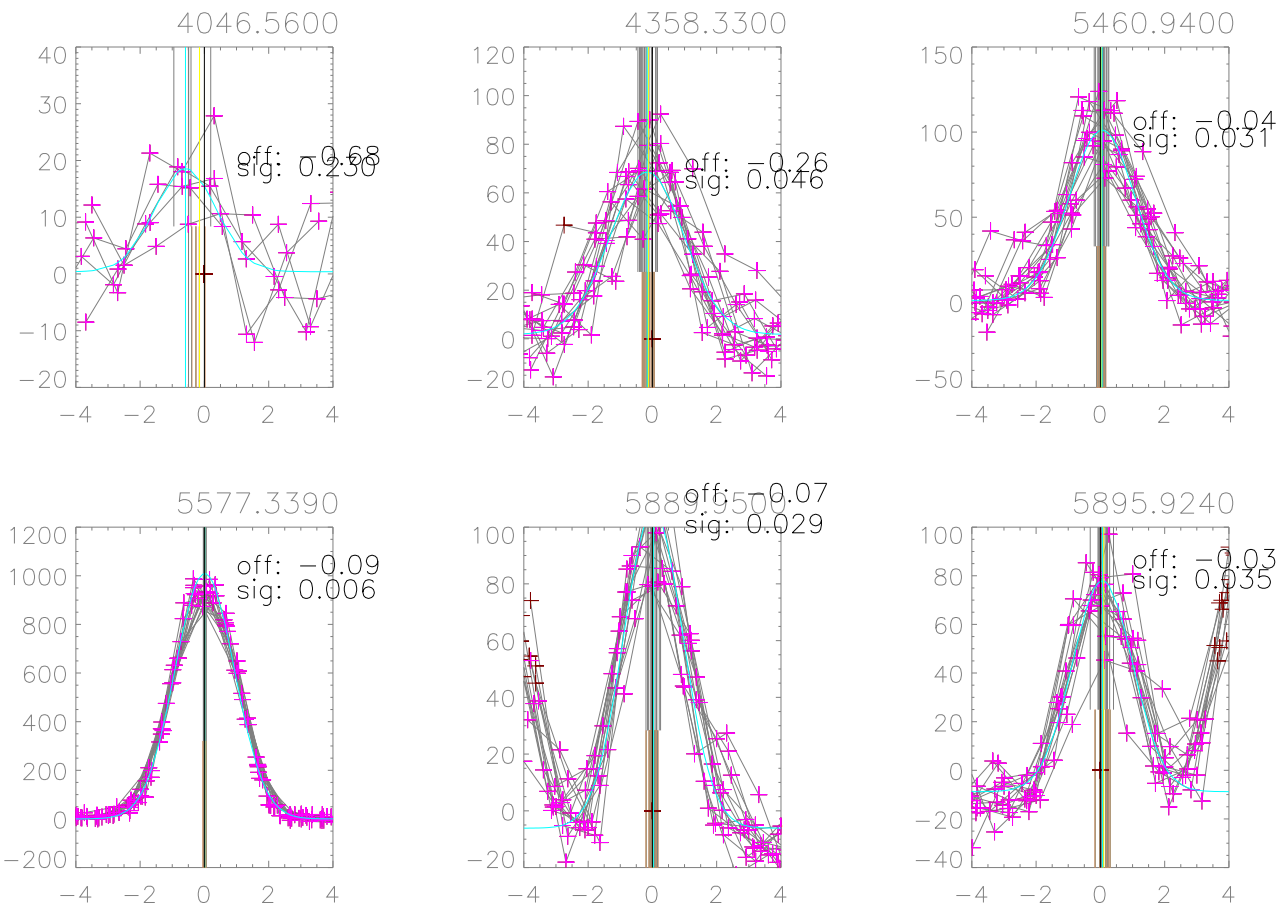

PLATE=0394 MJD=51909 Scattered Light before halo removal on sdR−b1−00007939.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
0.909
0.909
0.909
0.909
1.273
1.273
909

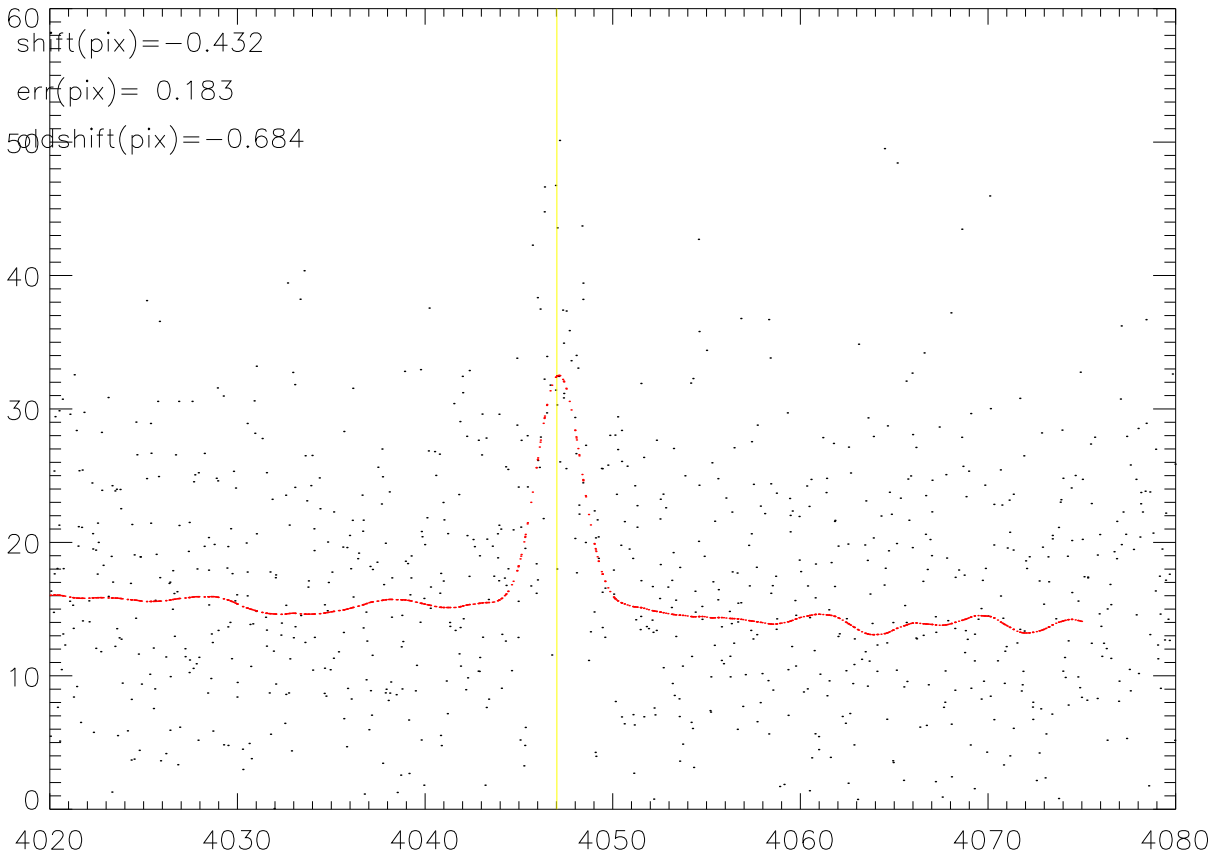

PLATE=0394 MJD=51909 Scattered Light before halo removal on sdR-b1-00007939.f
Brightness [electrons/pix]
2.0
1.5
1.0
0.5
0.0
Error bars denote full range
Min value = 0.770
Max value = 1.229
4000
4500
5000
5500
6000
λ [A]
Thu Feb 28 04:40:20 2008

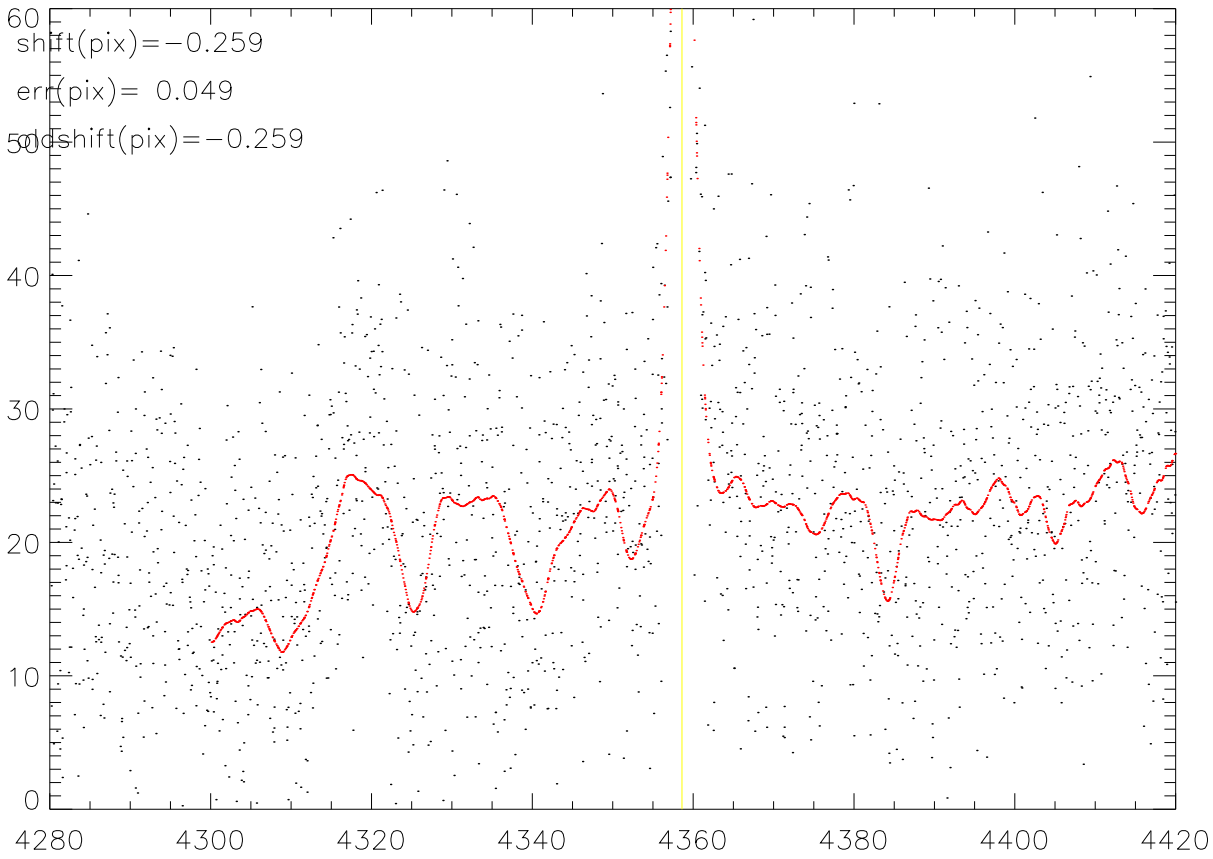

PLATE=0394 MJD=51909 Scattered Light on sdR-b1-00007939.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
0.55
0.33
0.76

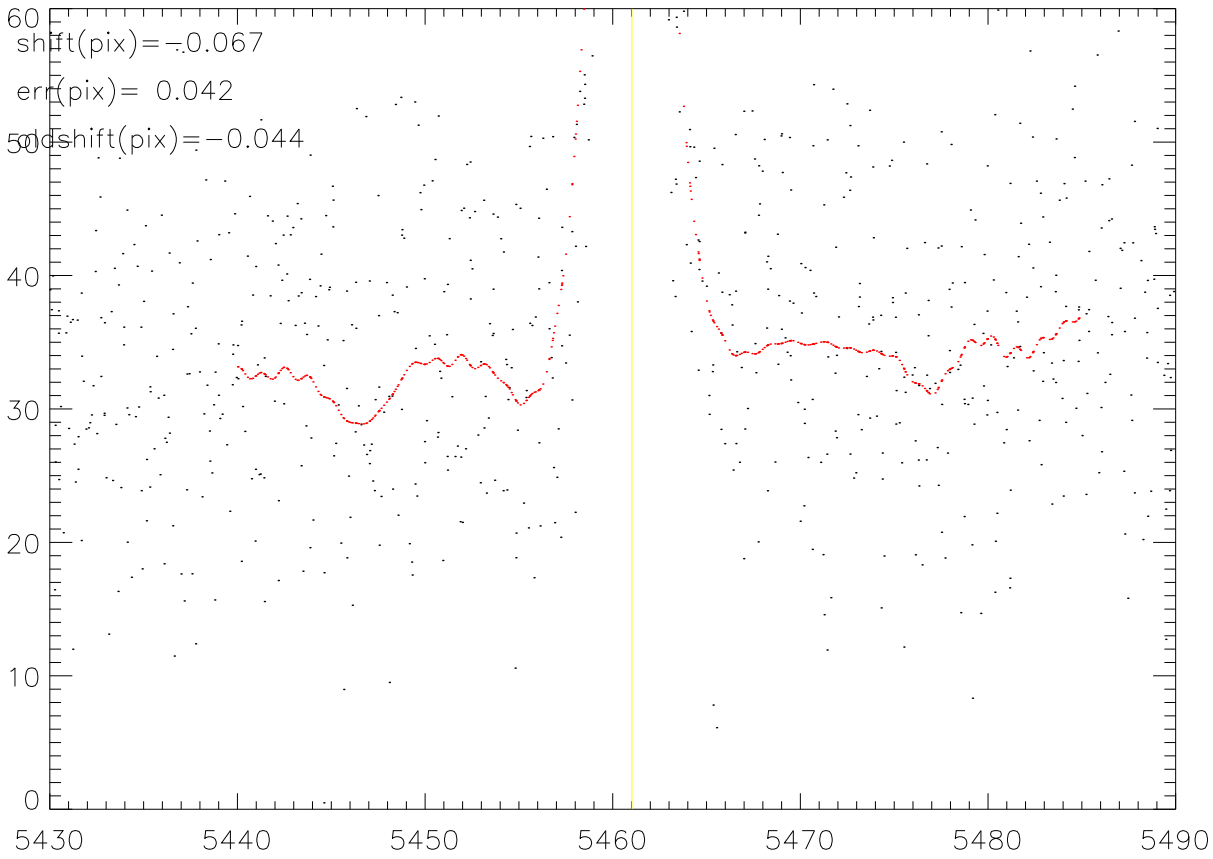

PLATE=0394 MJD=51909 Scattered Light on sdR-b1-00007939.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 0.286
Max value = 0.693
Thu Feb 28 04:42:17 2008

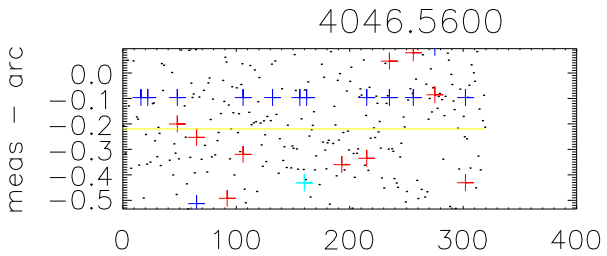

PLATE=0394 MJD=51909 Extraction chi^2 for sdR-b1-00007939.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

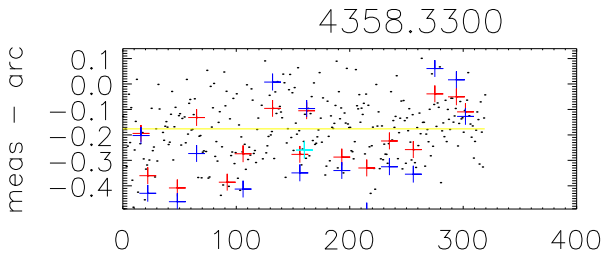

4046.5600
off: −0.68
sig: 0.230
4358.3300
off: −0.26
sig: 0.046
5460.9400
off: −0.04
sig: 0.031
5577.3390
off: −0.09
sig: 0.006
5889.9500
off: −0.07
sig: 0.029
5895.9240
off: −0.03
sig: 0.035

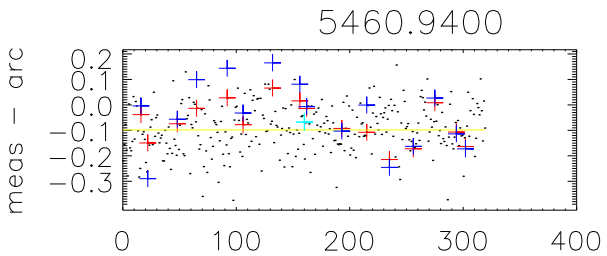

shift(pix)=−0.432
err(pix)= 0.183
oldshift(pix)=−0.684
60
50
40
30
20
10
0
4020
4030
4040
4050
4060
4070
4080

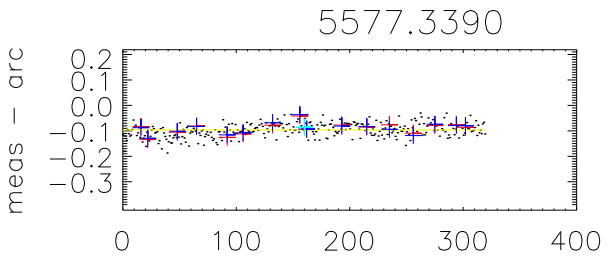

shift(pix)=−0.259
err(pix)= 0.049
oldshift(pix)=−0.259
60
50
40
30
20
10
0
4280
4300
4320
4340
4360
4380
4400
4420

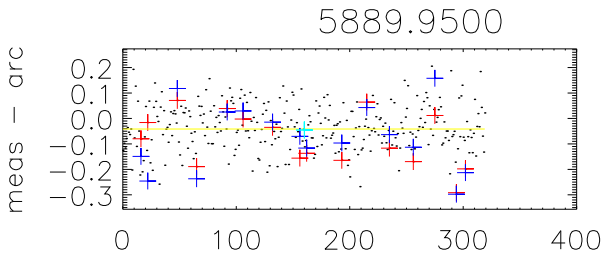

shift(pix)=−0.067
err(pix)= 0.042
oldshift(pix)=−0.044
60
50
40
30
20
10
0
5430
5440
5450
5460
5470
5480
5490

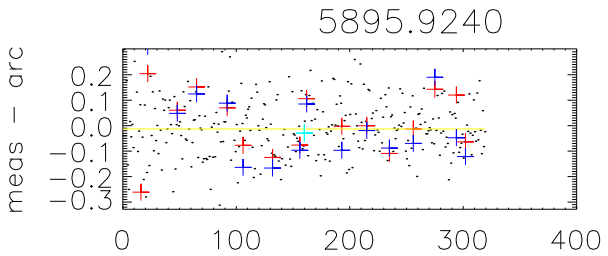

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

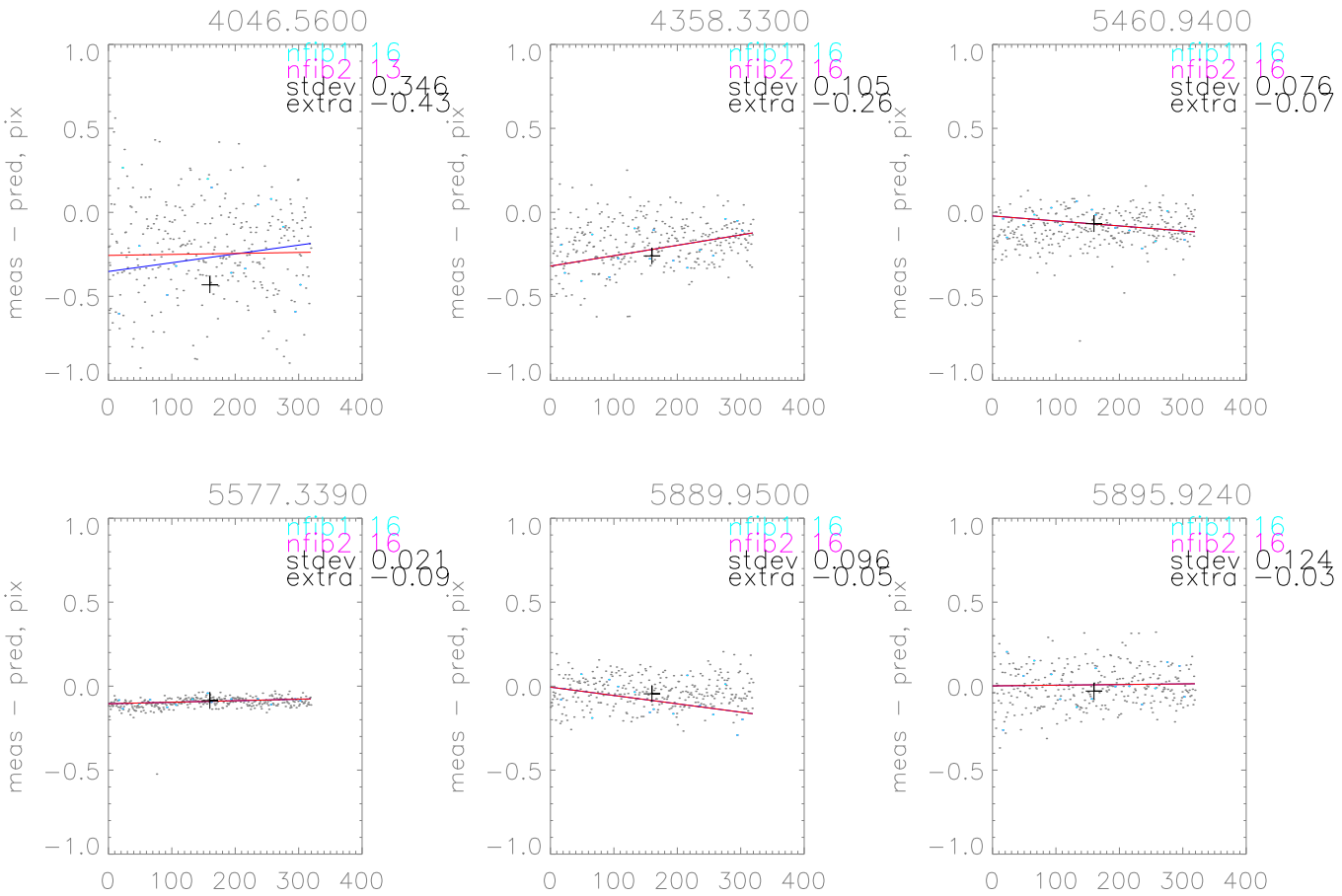

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

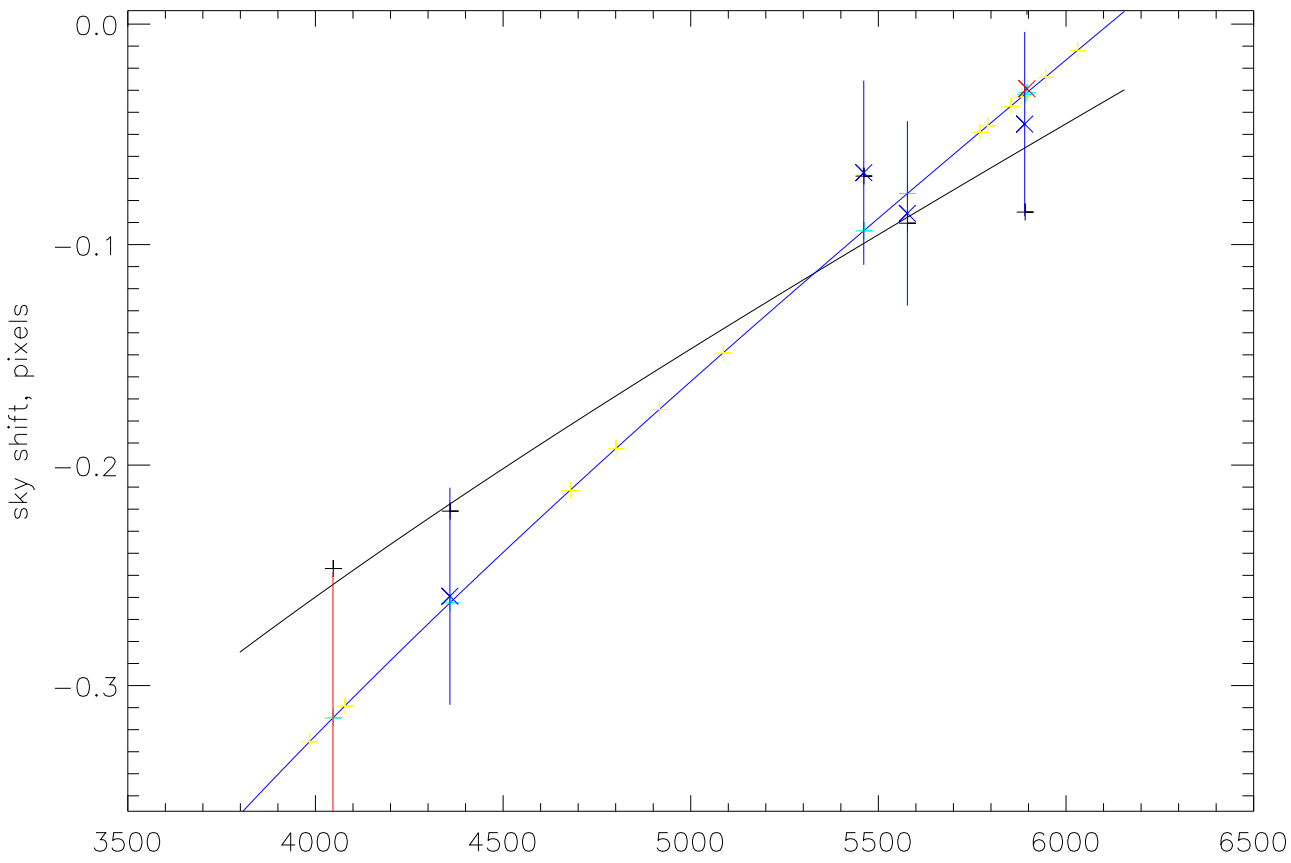

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

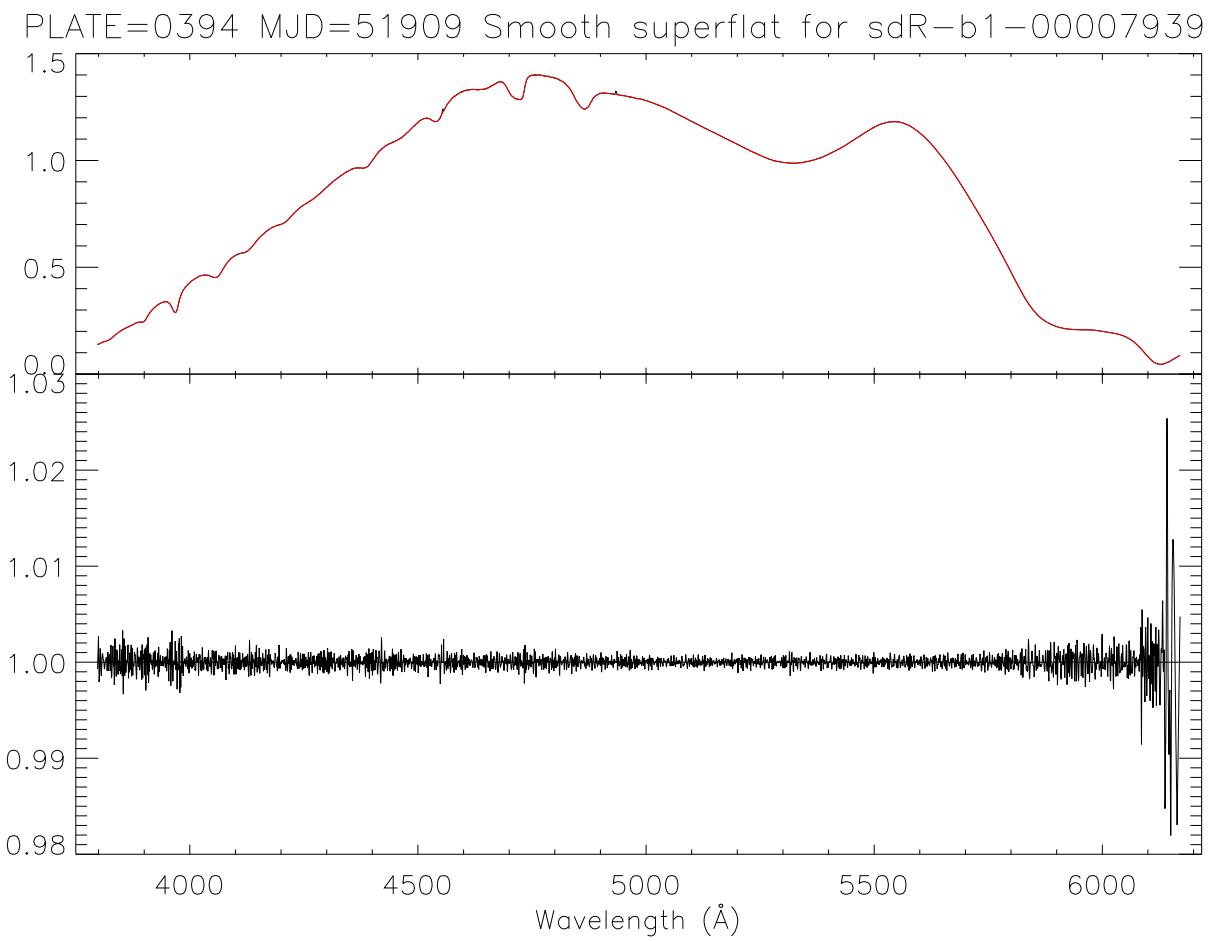

5889.9500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

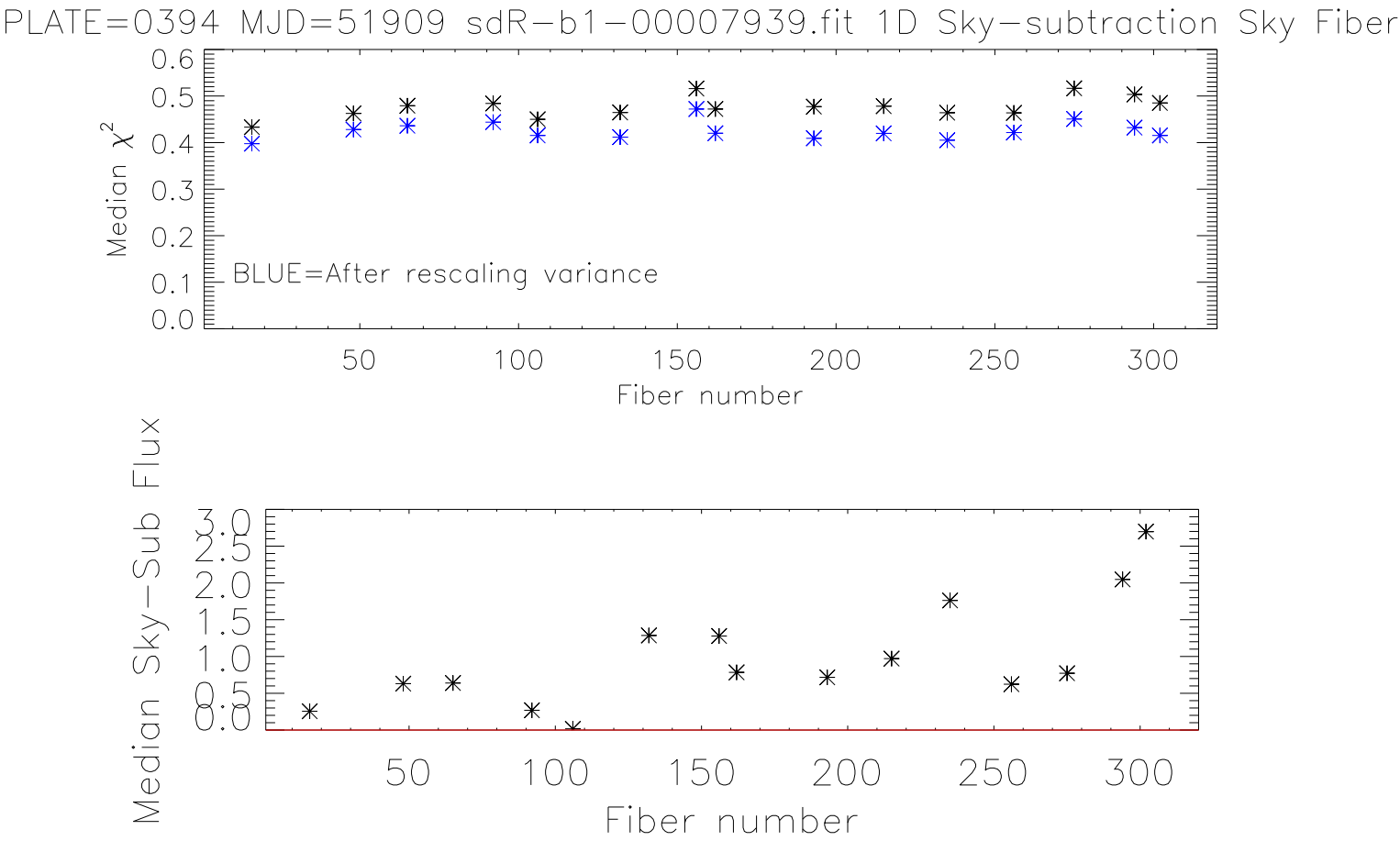

5895.9240
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

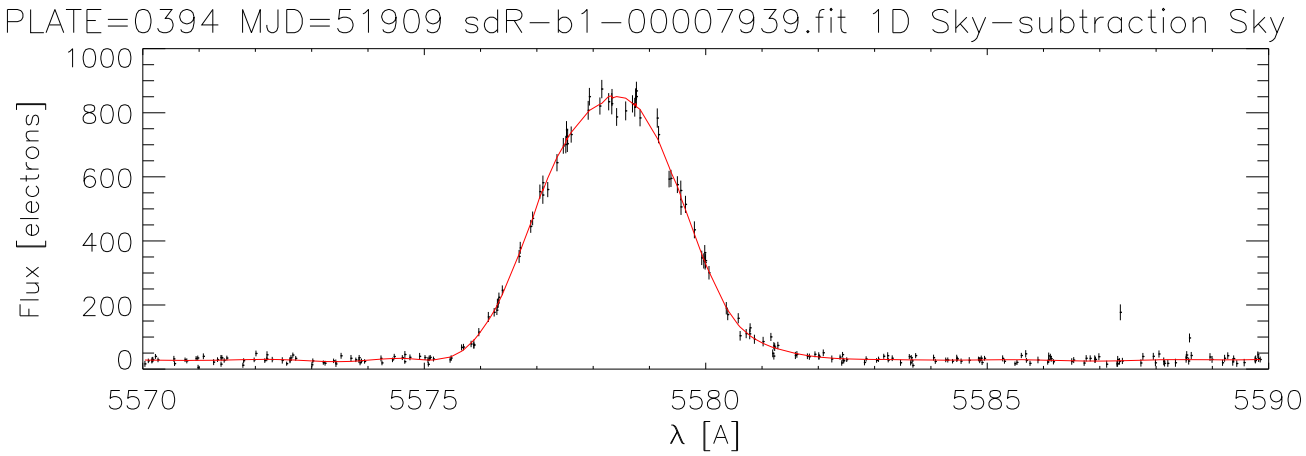

4046.5600
nfib1 16
nfib2 13
stdev 0.346
extra −0.43
4358.3300
nfib1 16
nfib2 16
stdev 0.105
extra −0.26
5460.9400
nfib1 16
nfib2 16
stdev 0.076
extra −0.07
5577.3390
nfib1 16
nfib2 16
stdev 0.021
extra −0.09
5889.9500
nfib1 16
nfib2 16
stdev 0.096
extra −0.05
5895.9240
nfib1 16
nfib2 16
stdev 0.124
extra −0.03
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

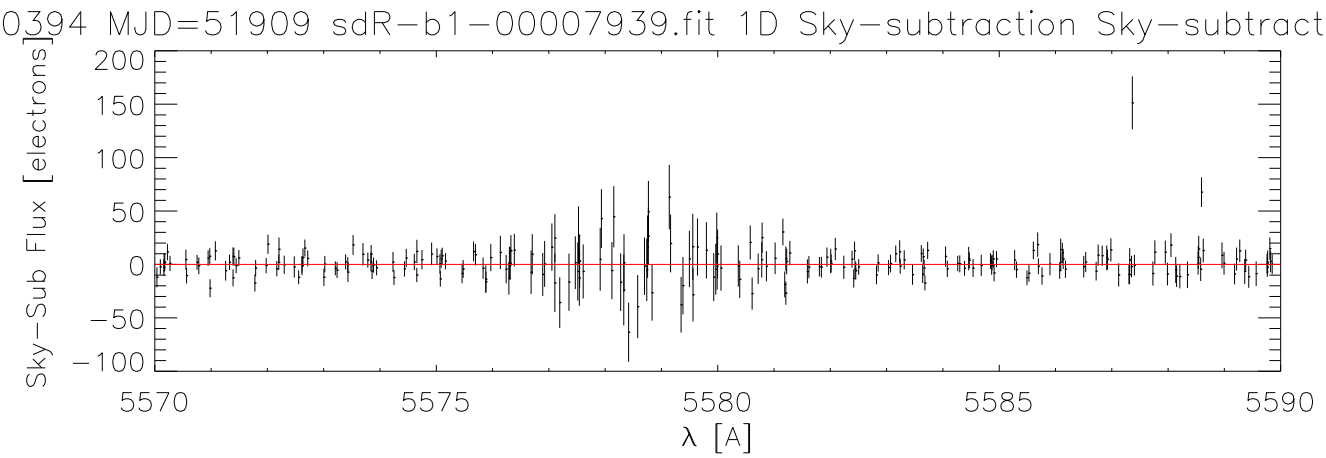

0.0
−0.1
−0.2
−0.3
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

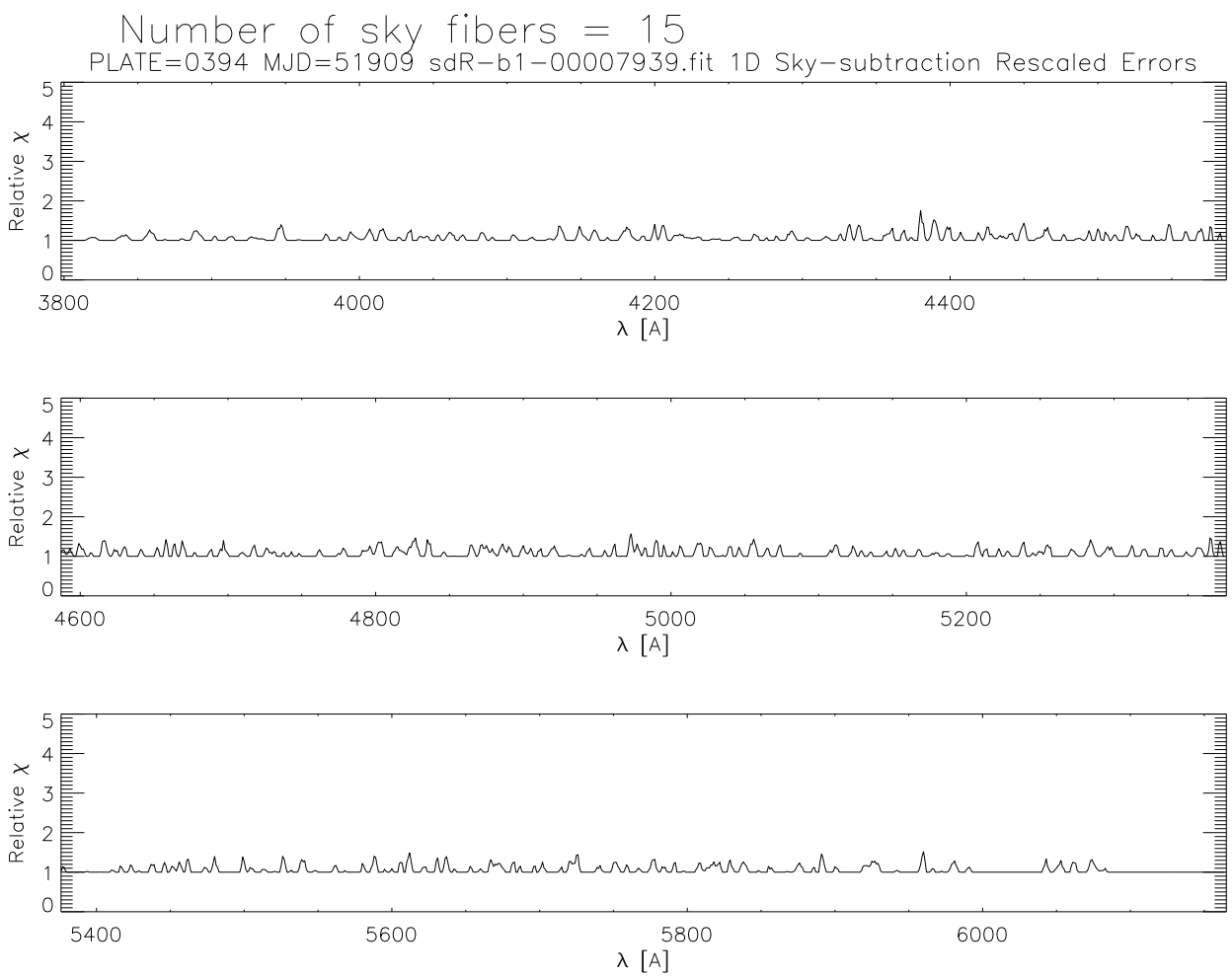
es= 0.0000

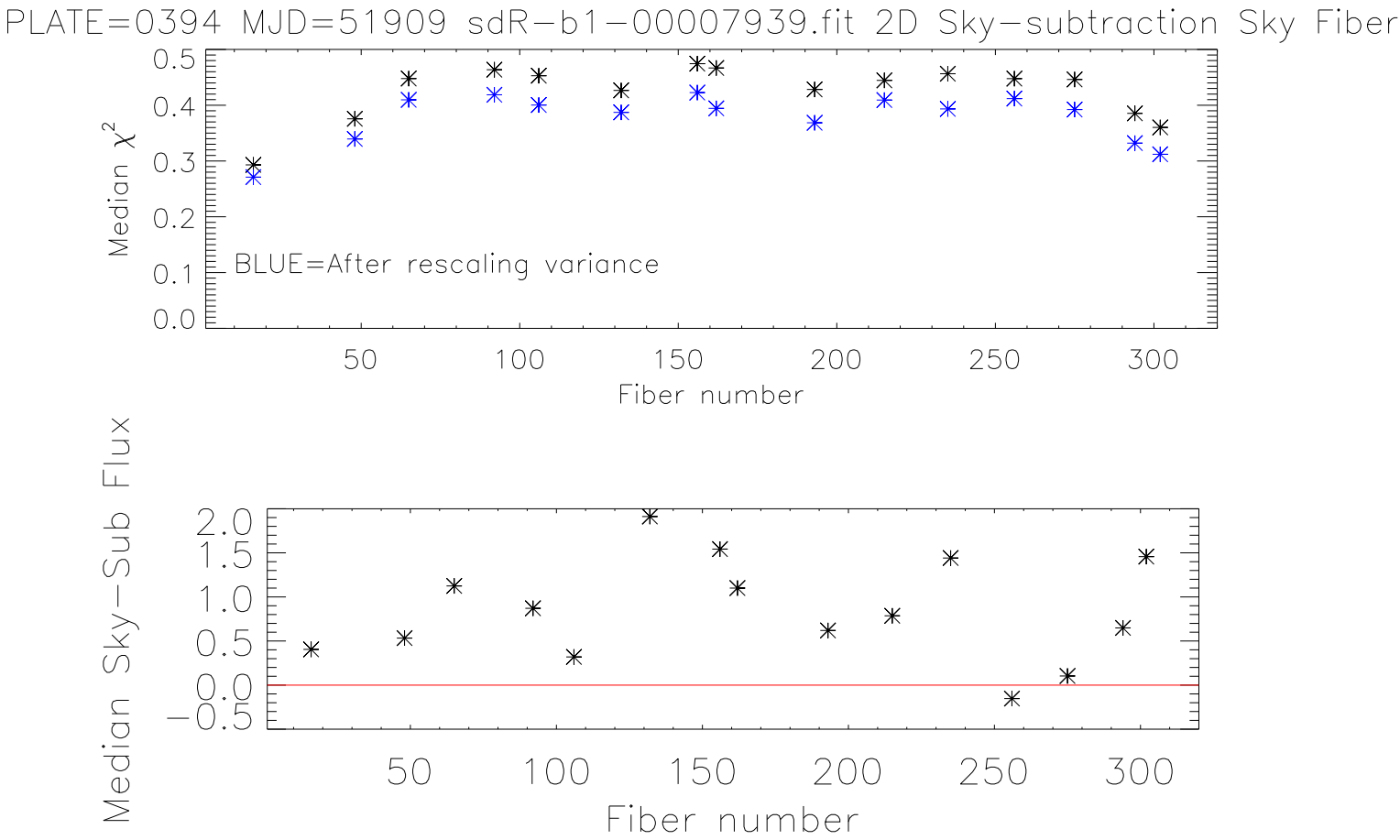

PLATE=0394 MJD=51909 Smooth superflat for sdR-b1-00007939.fit
1.5
1.0
0.5
0.0
1.03
1.02
1.01
1.00
0.99
0.98
4000
4500
5000
5500
6000
Wavelength (Å)

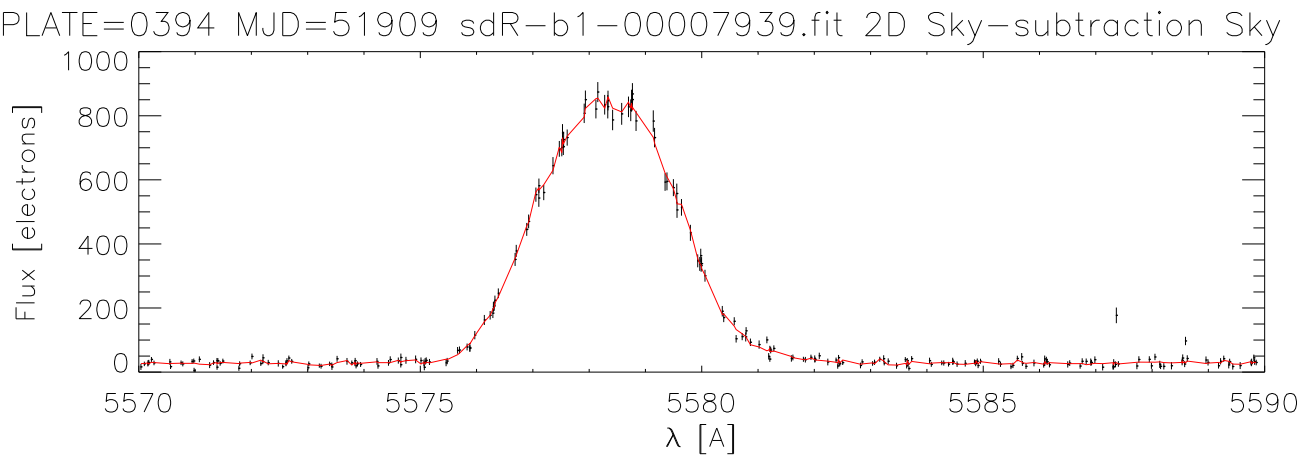

PLATE=0394 MJD=51909 sdR-b1-00007939.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

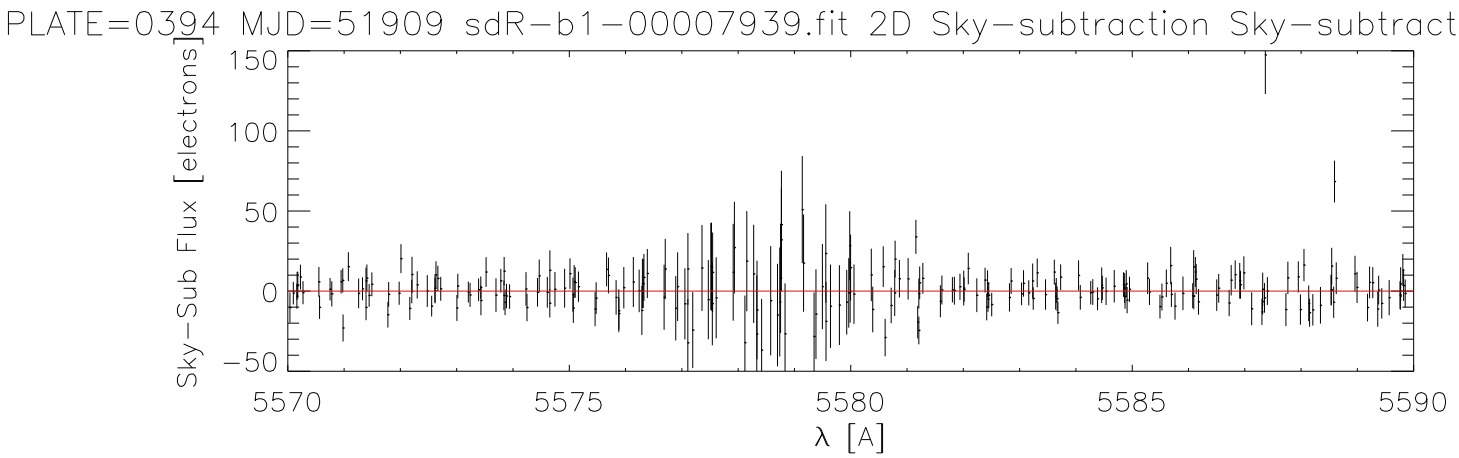

PLATE=0394 MJD=51909 sdR-b1-00007939.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1000
800
600
400
200
0
5570
5575
5580
5585
5590
λ [A]

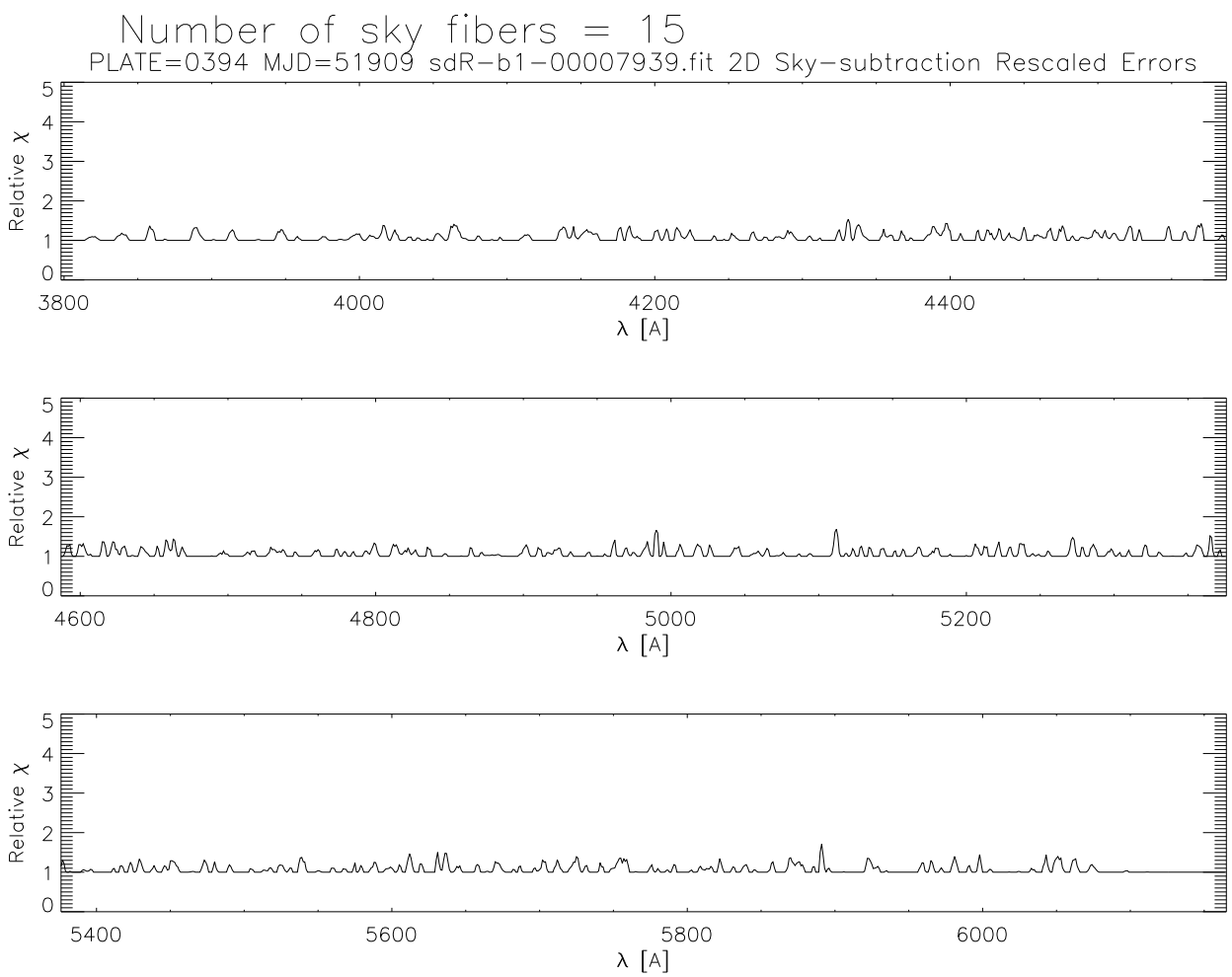

PLATE=0394 MJD=51909 sdR-b1-00007939.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
150
100
50
0
-50
-100
5570
5575
5580
5585
5590
λ [A]

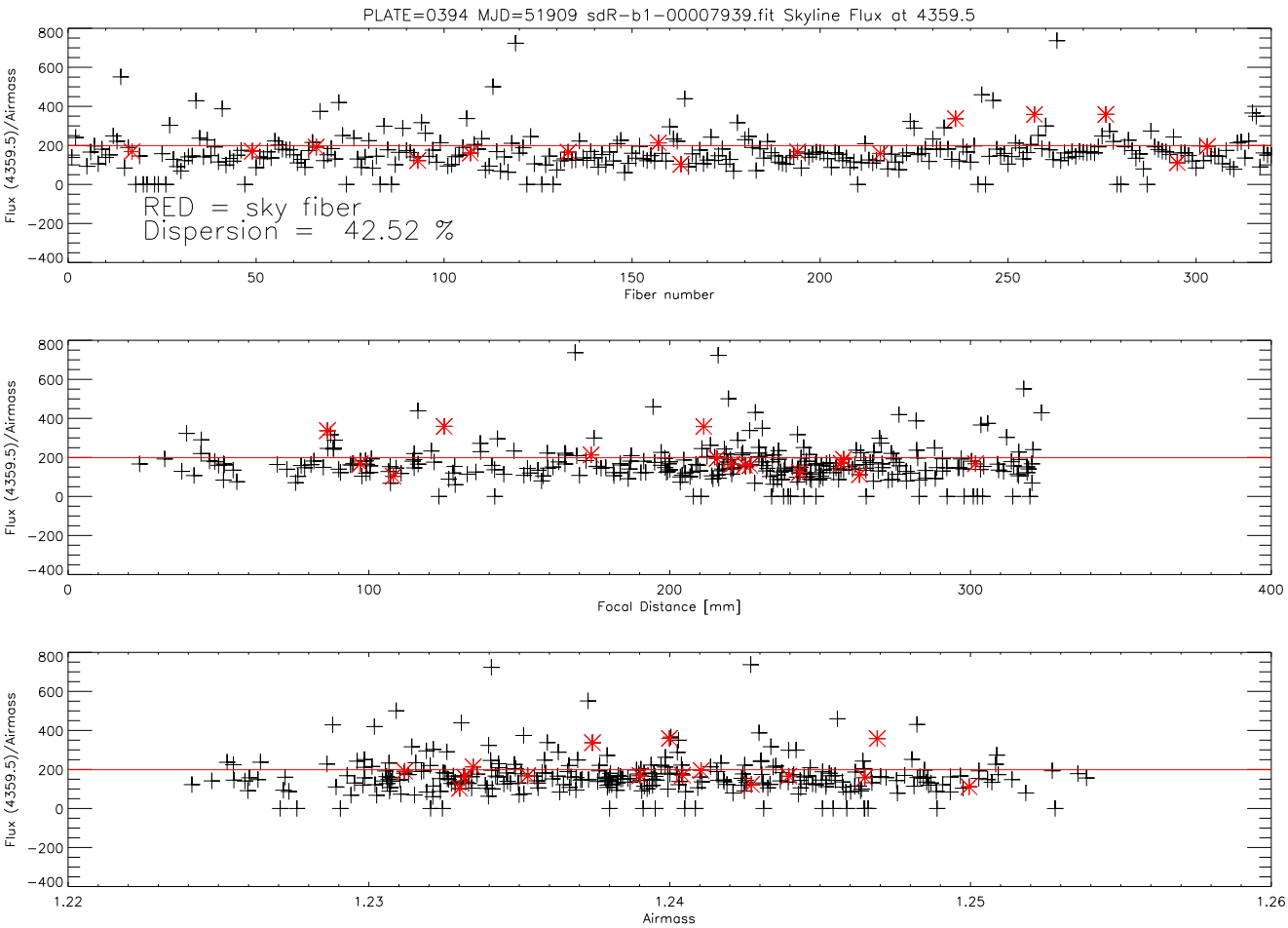

Number of sky fibers = 15
PLATE=0394 MJD=51909 sdR-b1-00007939.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

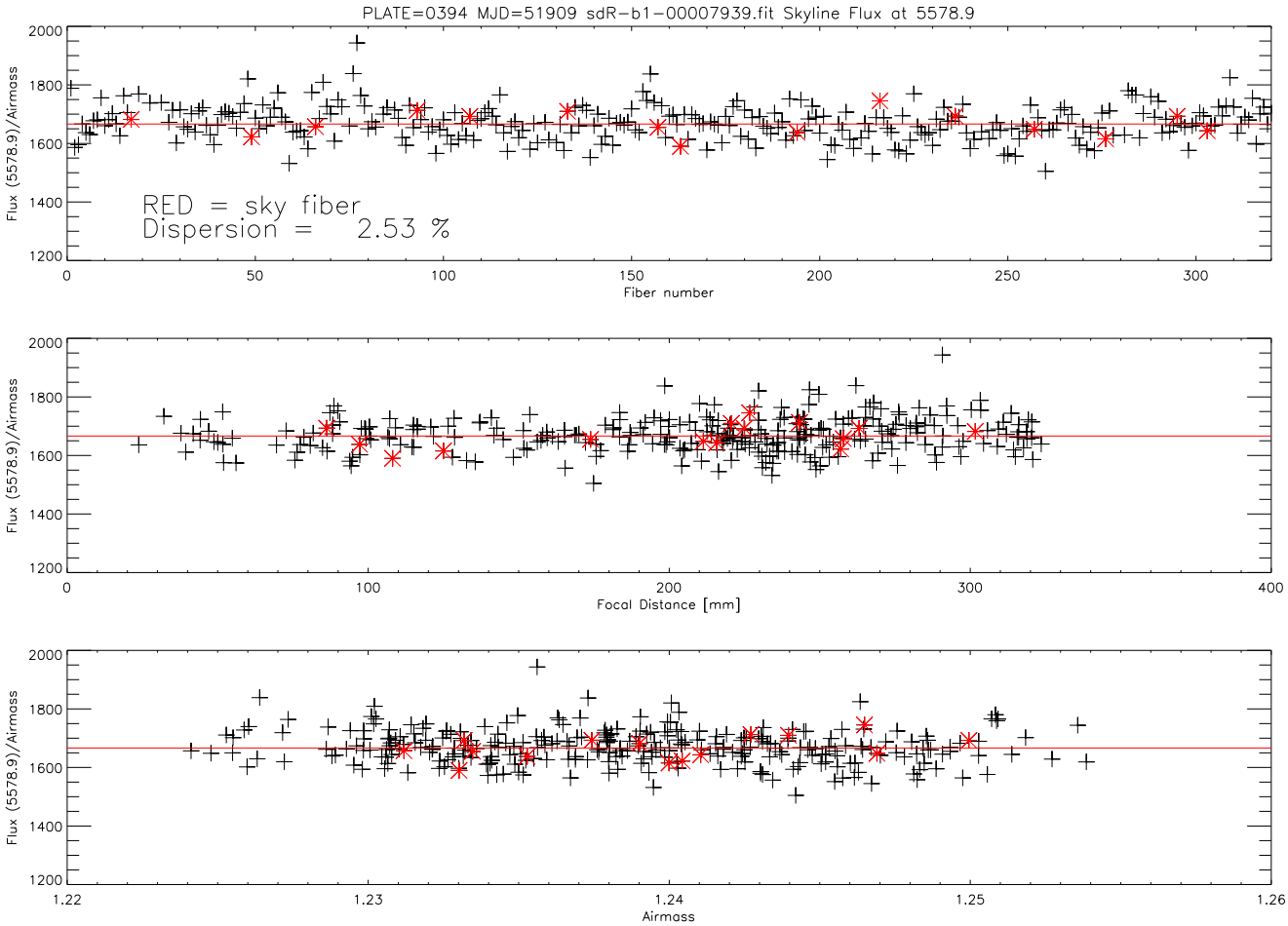

PLATE=0394 MJD=51909 sdR-b1-00007939.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

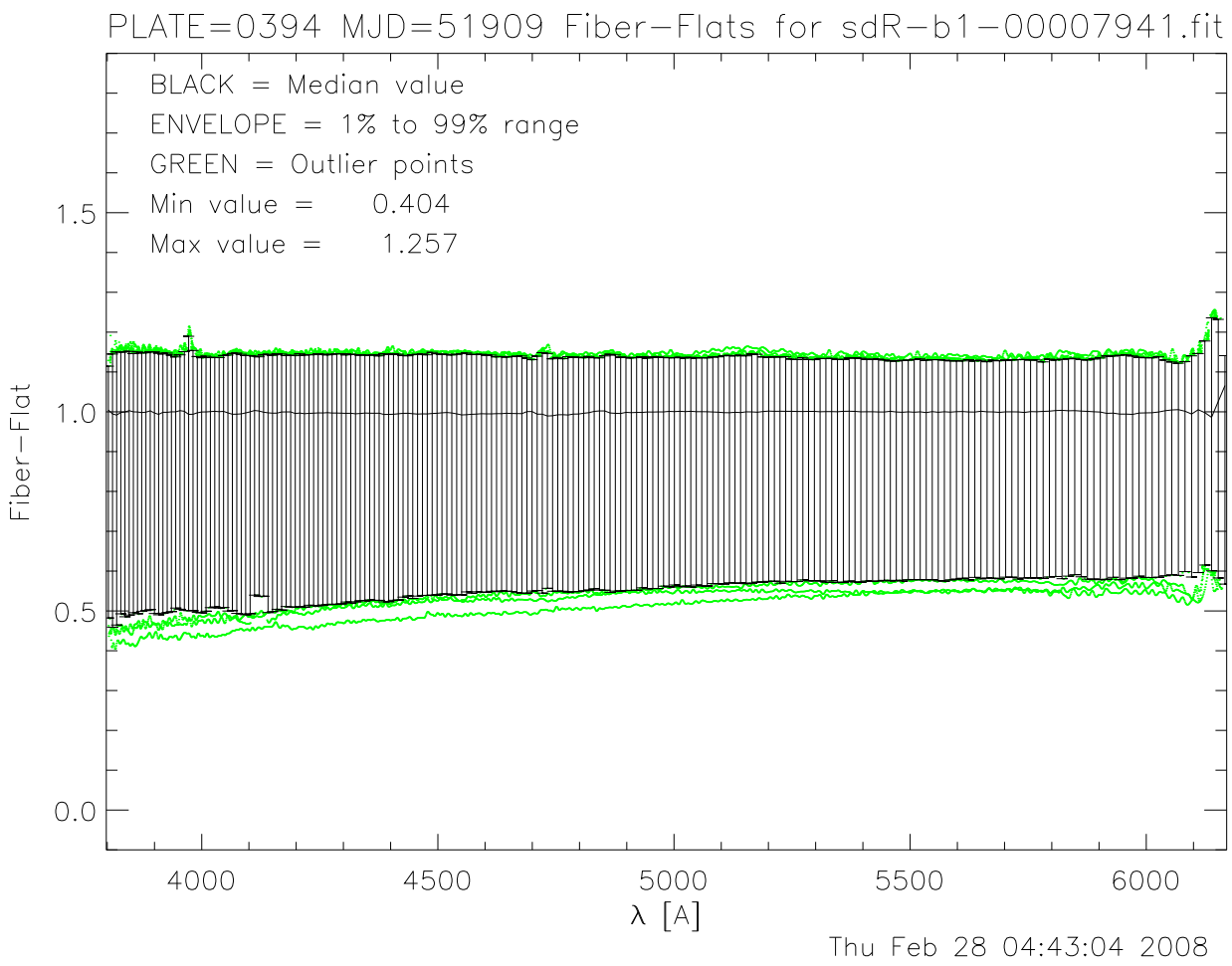

PLATE=0394 MJD=51909 sdR-b1-00007939.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1000
800
600
400
200
0
5570
5575
5580
5585
5590
λ [A]

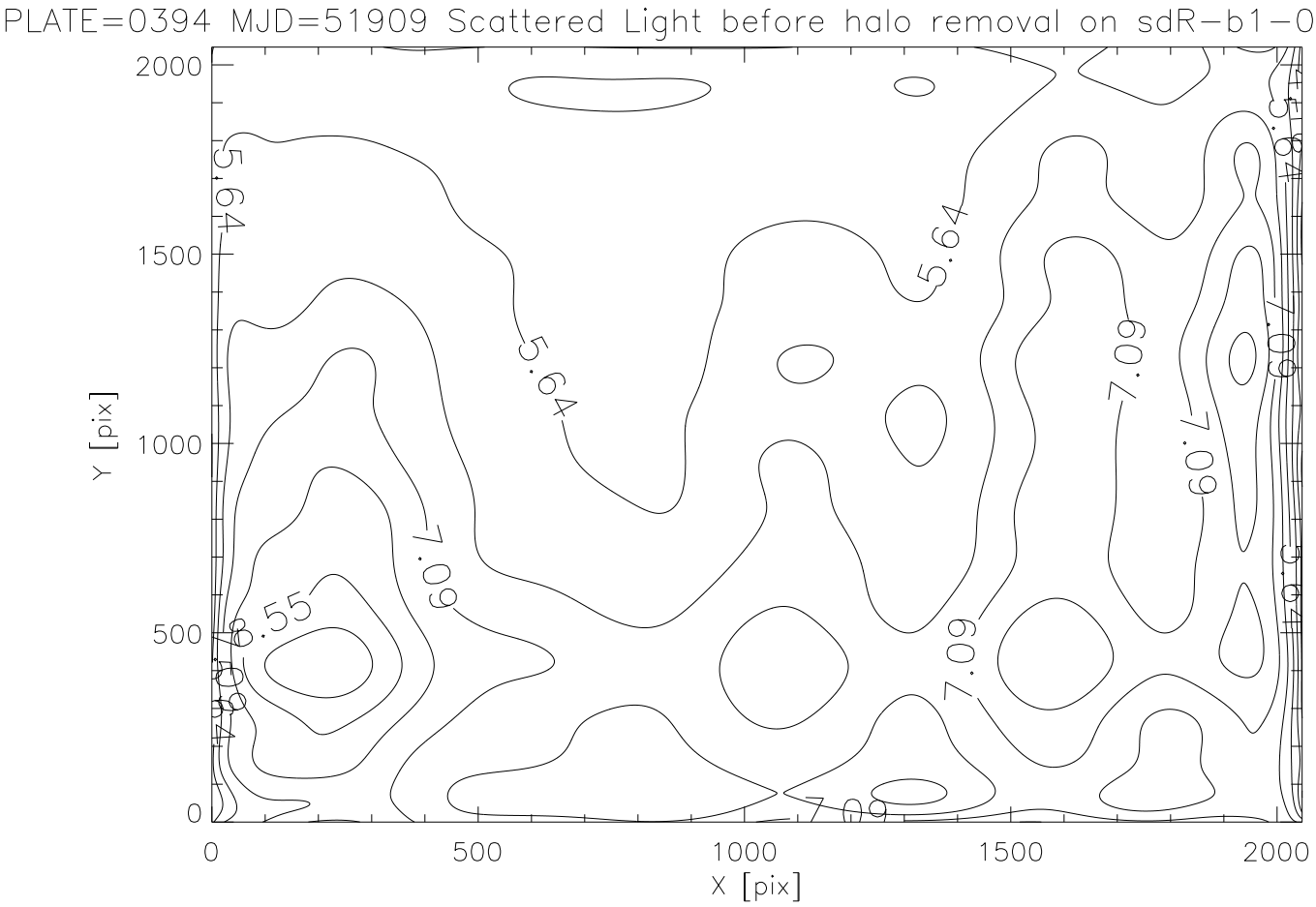

PLATE=0394 MJD=51909 sdR-b1-00007939.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
5570
5575
5580
5585
5590
λ [A]

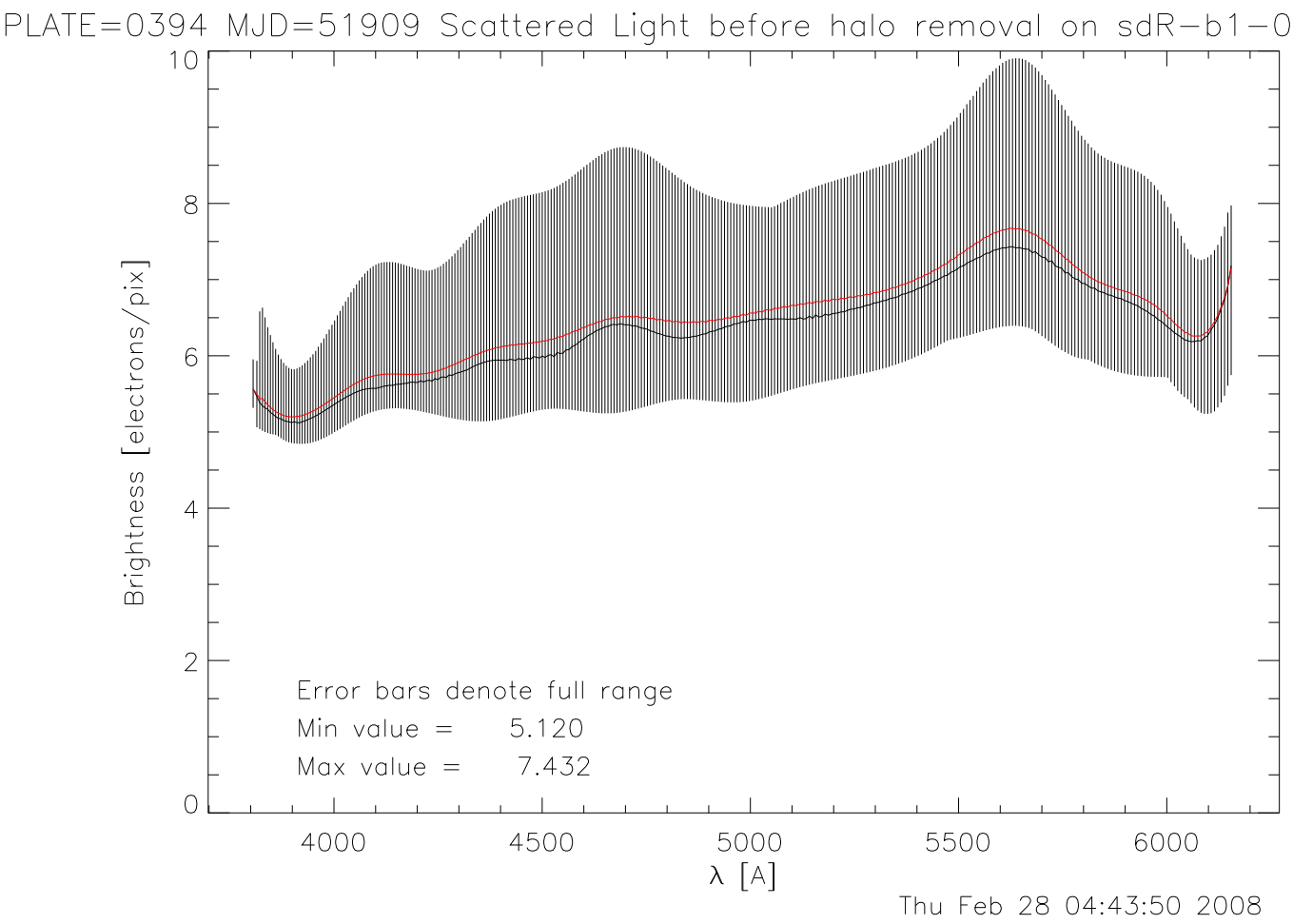

Number of sky fibers = 15
PLATE=0394 MJD=51909 sdR-b1-00007939.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

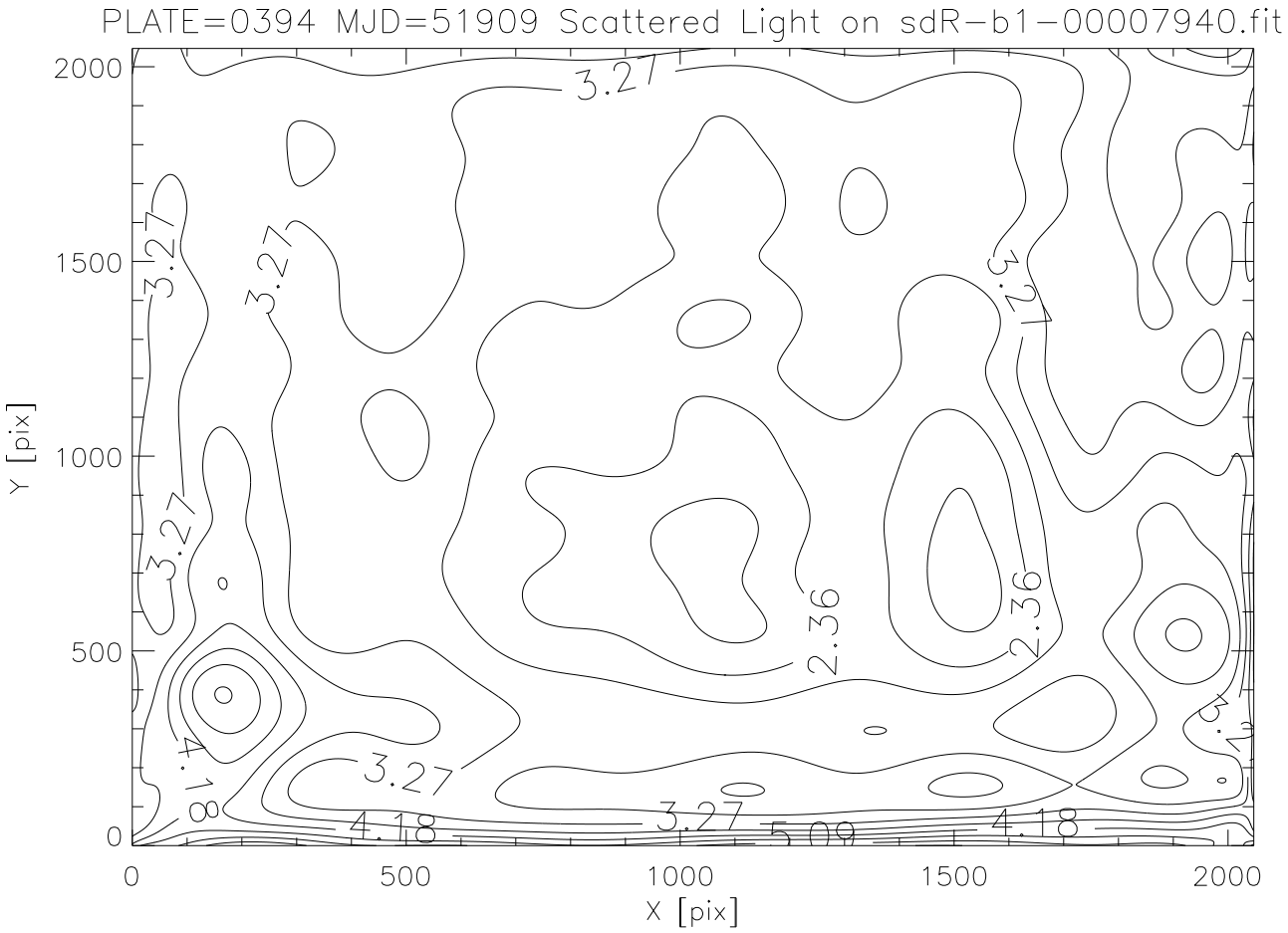

PLATE=0394 MJD=51909 sdR-b1-00007939.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 42.52 %
Fiber number
Focal Distance [mm]
Airmass

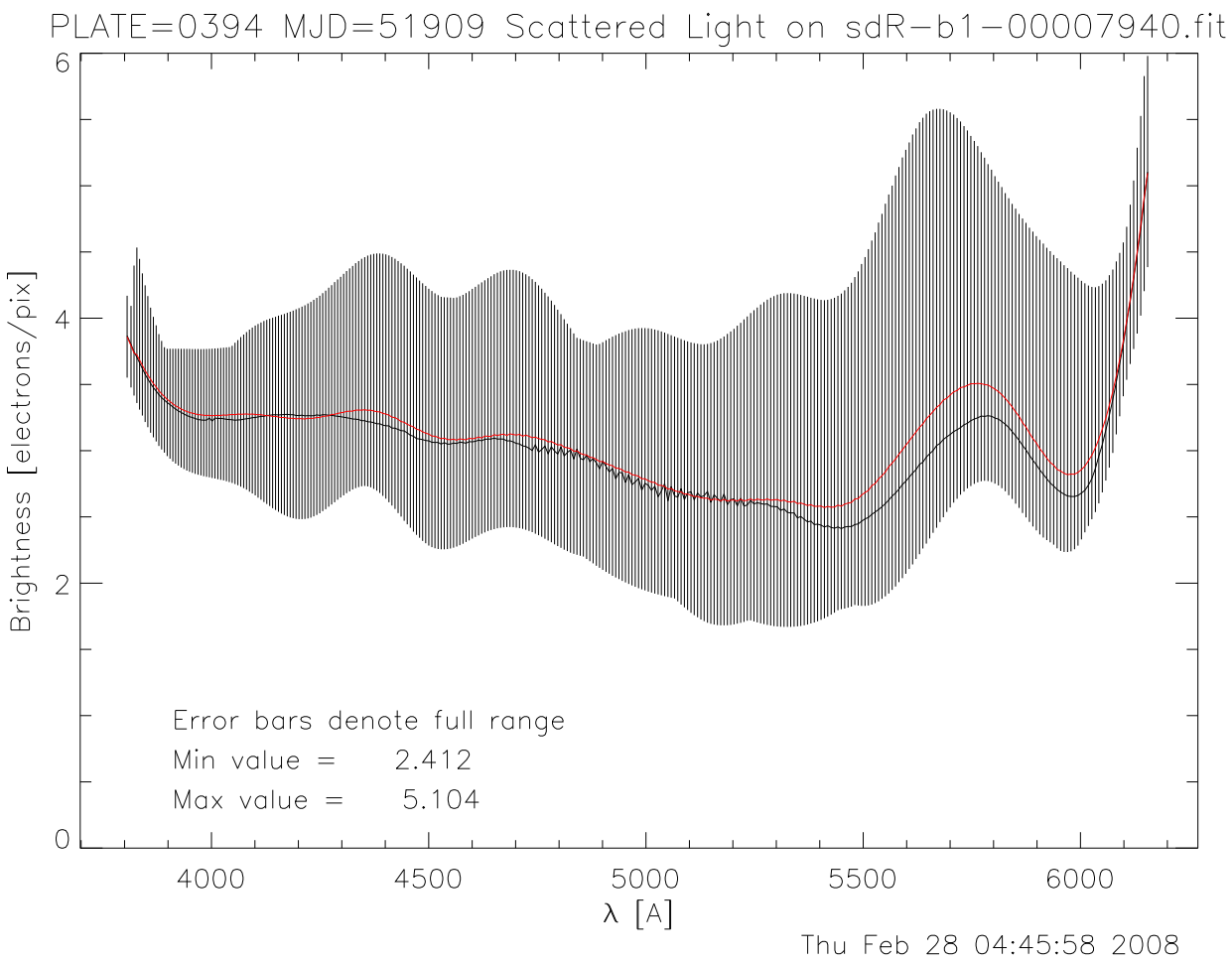

PLATE=0394 MJD=51909 sdR-b1-00007939.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.53 %
Fiber number
Focal Distance [mm]
Airmass

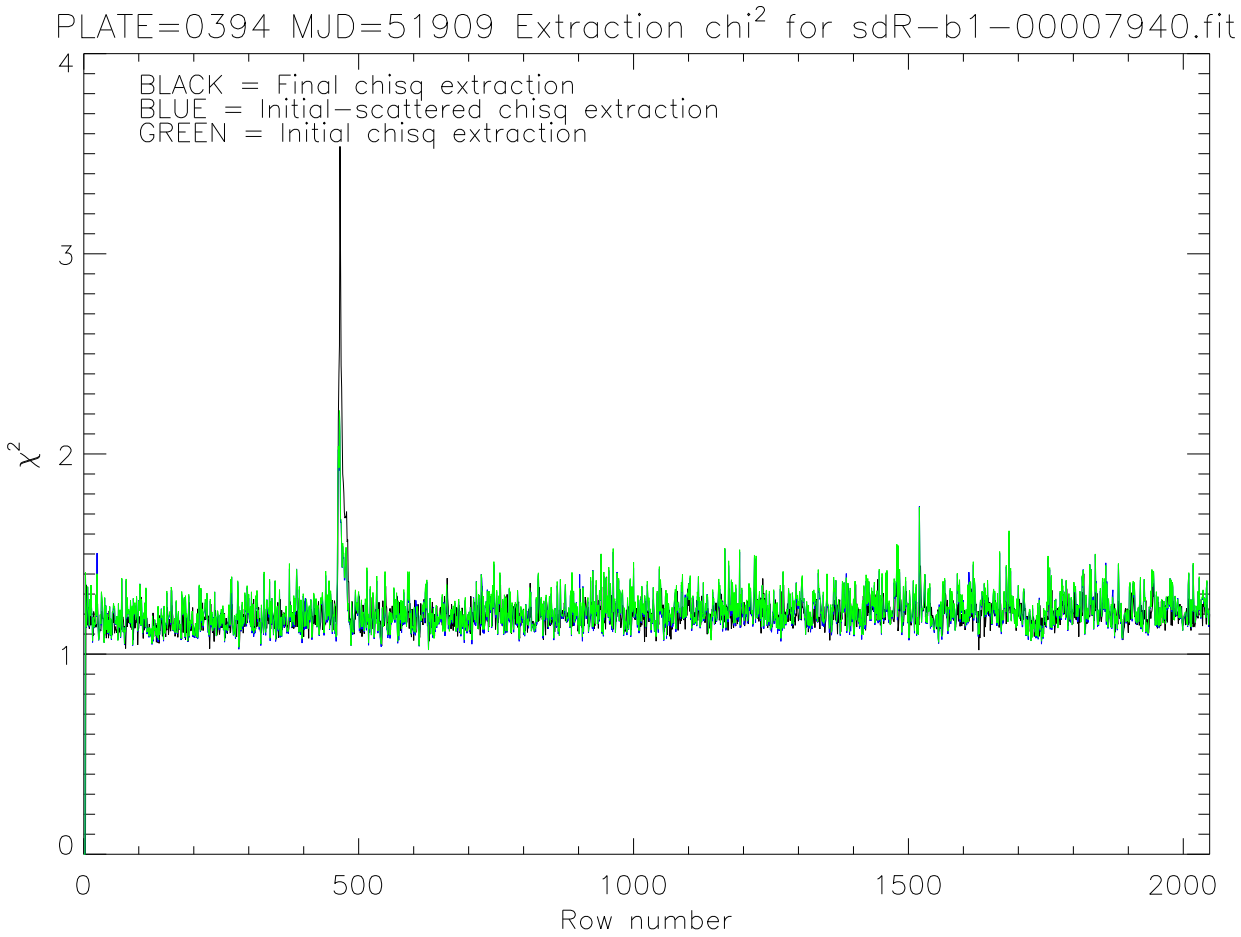

PLATE=0394 MJD=51909 Fiber-Flats for sdR-b1-00007941.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.404
Max value = 1.257
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Thu Feb 28 04:43:04 2008

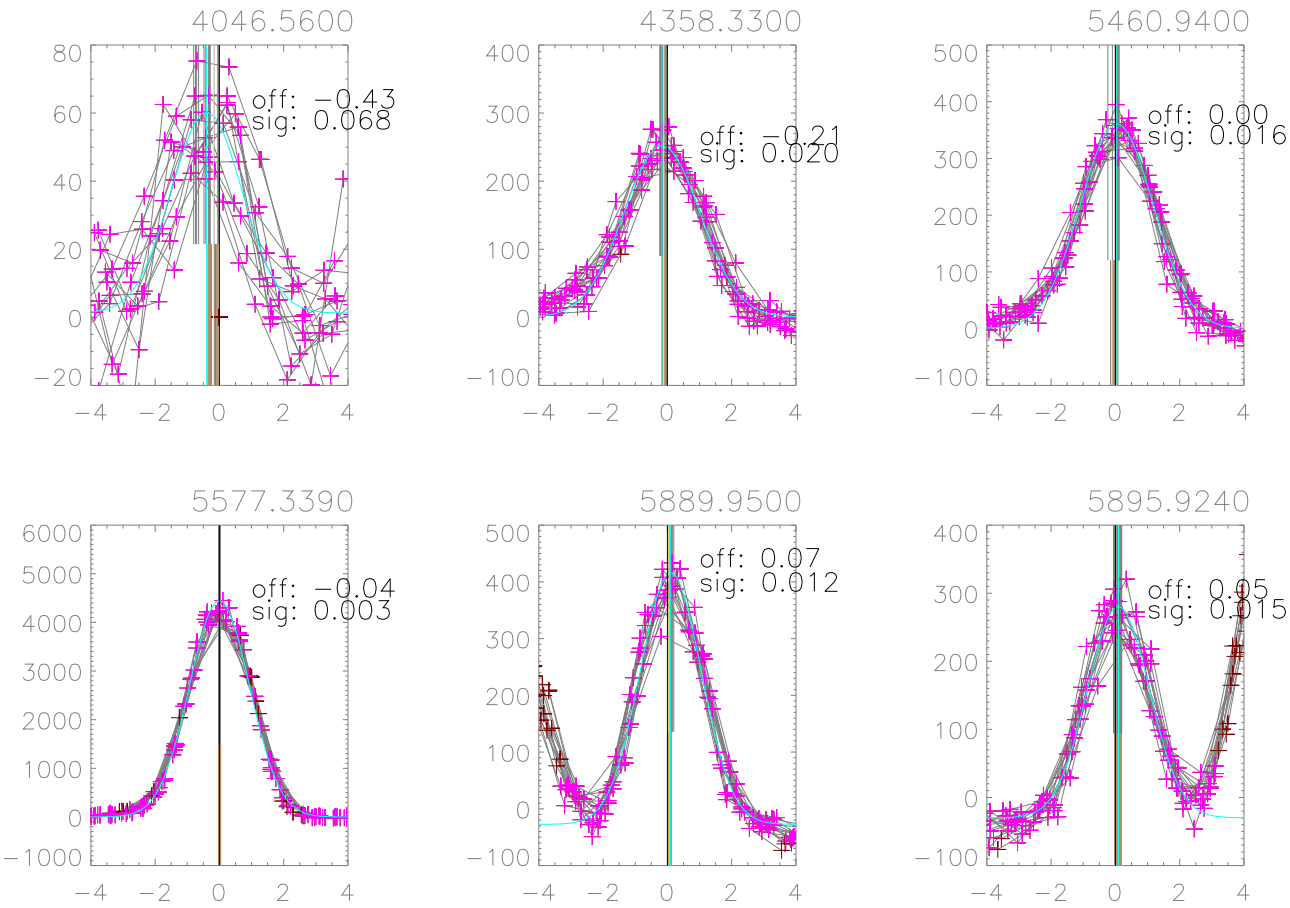

PLATE=0394 MJD=51909 Scattered Light before halo removal on sdR−b1−00007940.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
5.64
7.09
8.55

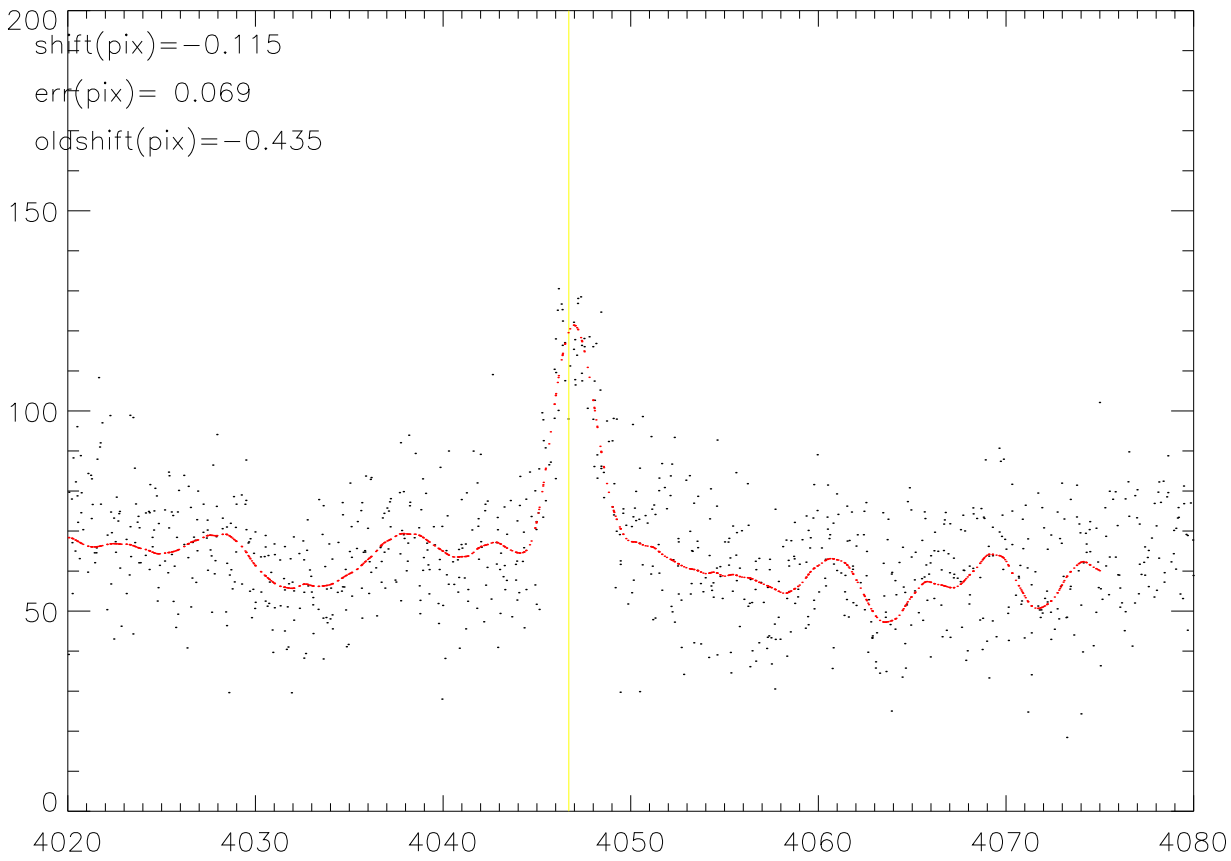

PLATE=0394 MJD=51909 Scattered Light before halo removal on sdR-b1-00007940.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.120
Max value = 7.432
Thu Feb 28 04:43:50 2008

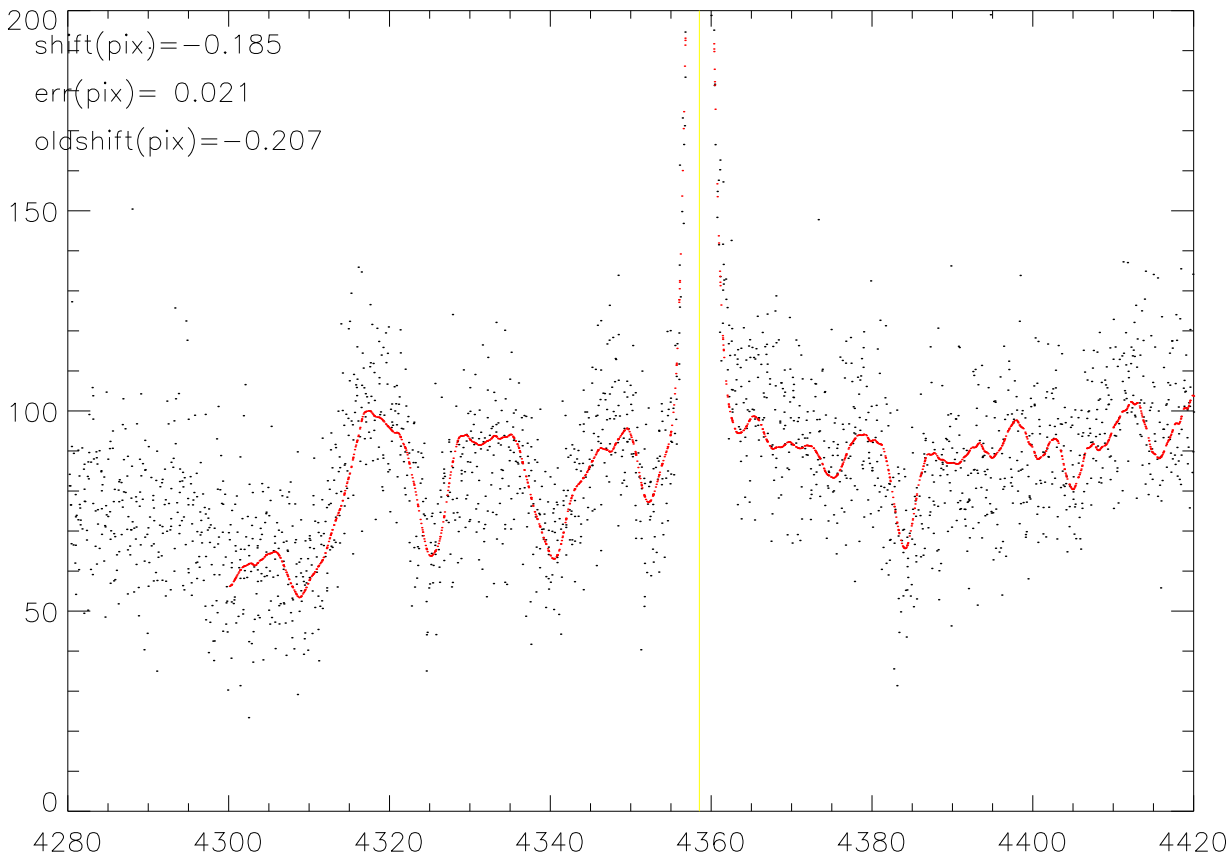

PLATE=0394 MJD=51909 Scattered Light on sdR-b1-00007940.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
3.27
2.36
4.18
5.09

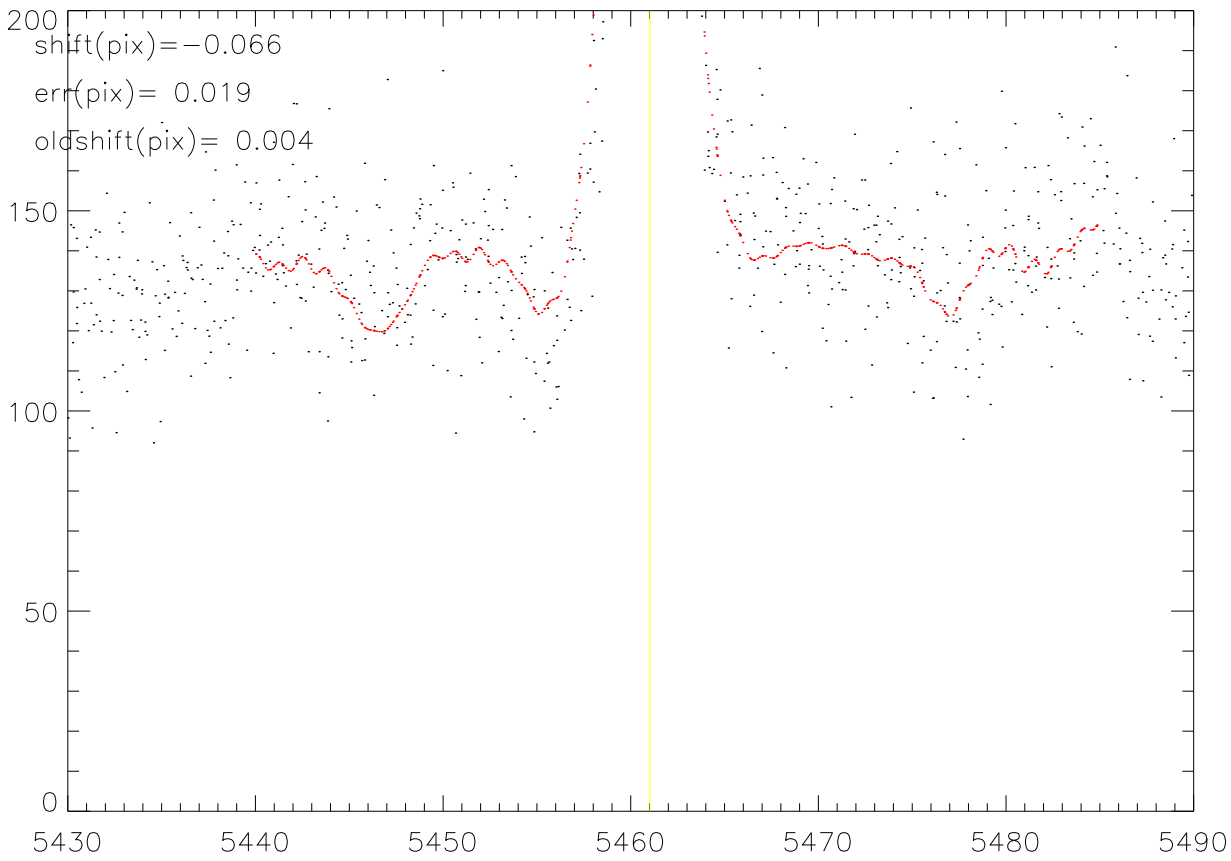

PLATE=0394 MJD=51909 Scattered Light on sdR-b1-00007940.fit
Brightness [electrons/pix]
0
2
4
6
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 2.412
Max value = 5.104
Thu Feb 28 04:45:58 2008

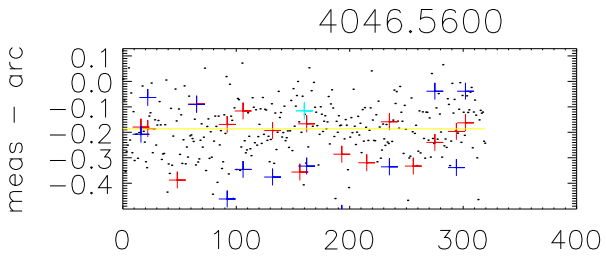

PLATE=0394 MJD=51909 Extraction chi^2 for sdR-b1-00007940.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

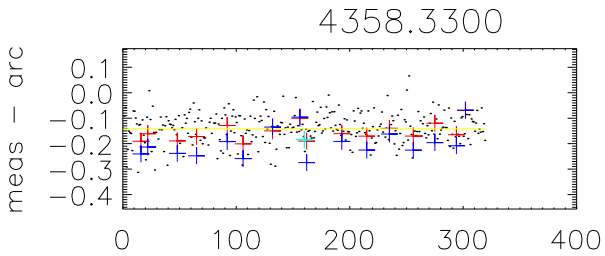

4046.5600
off: −0.43
sig: 0.068
4358.3300
off: −0.21
sig: 0.020
5460.9400
off: 0.00
sig: 0.016
5577.3390
off: −0.04
sig: 0.003
5889.9500
off: 0.07
sig: 0.012
5895.9240
off: 0.05
sig: 0.015

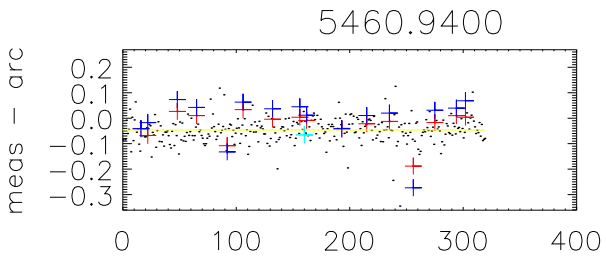

shift(pix)=−0.115
err(pix)= 0.069
oldshift(pix)=−0.435
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

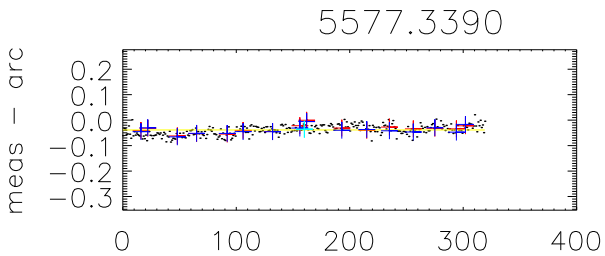

shift(pix)=−0.185
err(pix)= 0.021
oldshift(pix)=−0.207
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

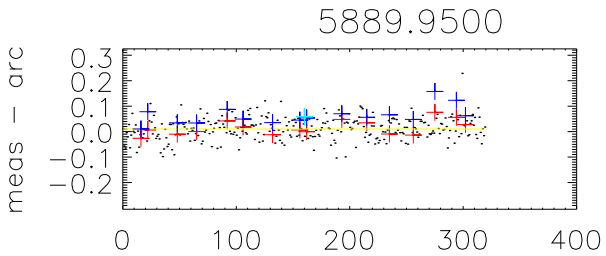

shift(pix)=−0.066
err(pix)= 0.019
oldshift(pix)= 0.004
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

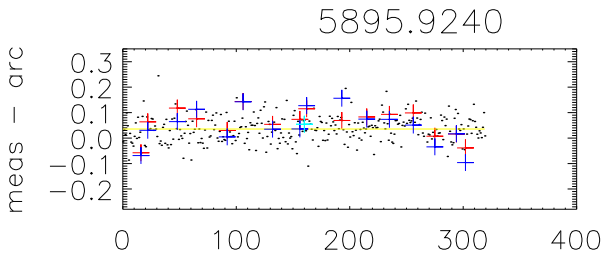

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

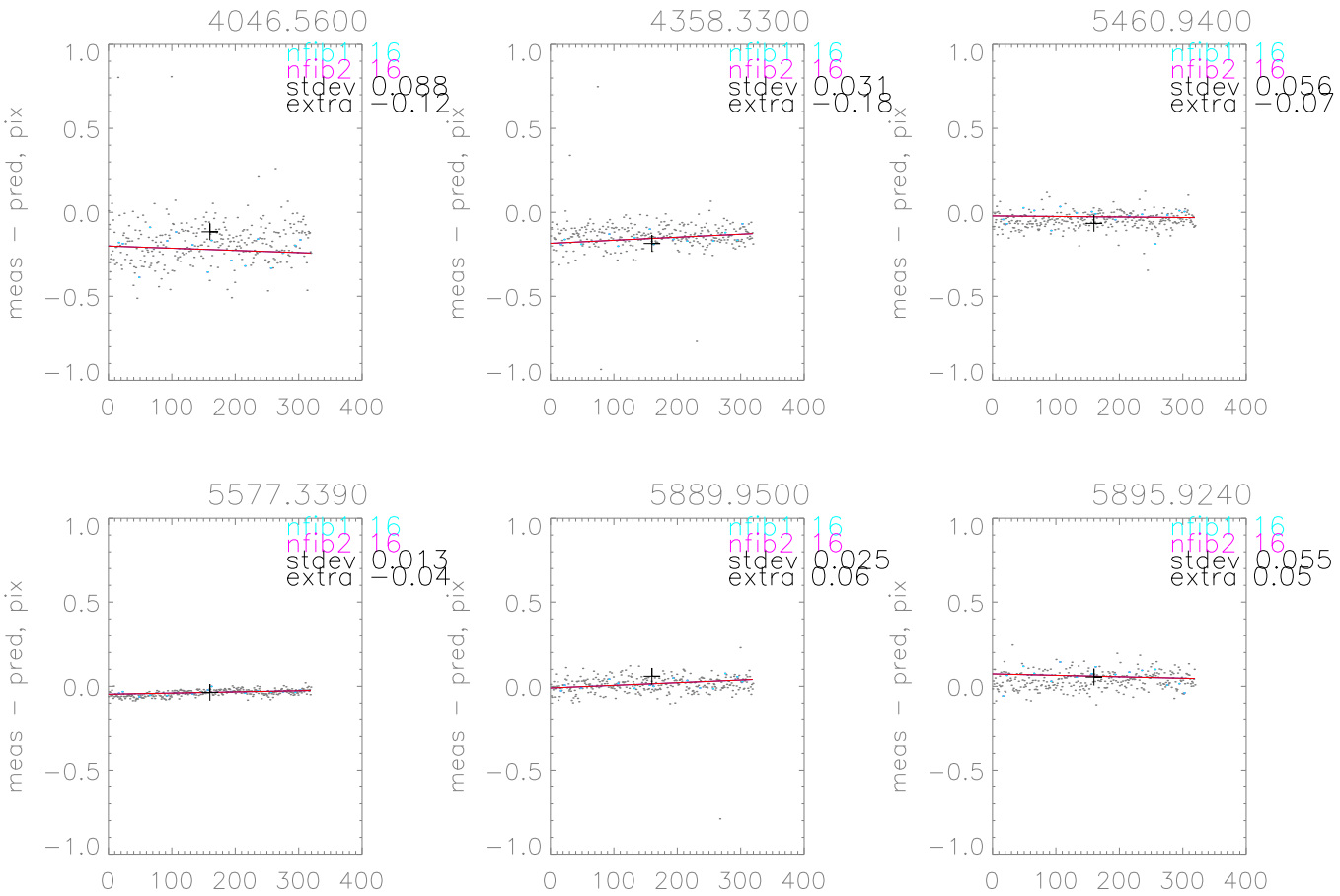

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

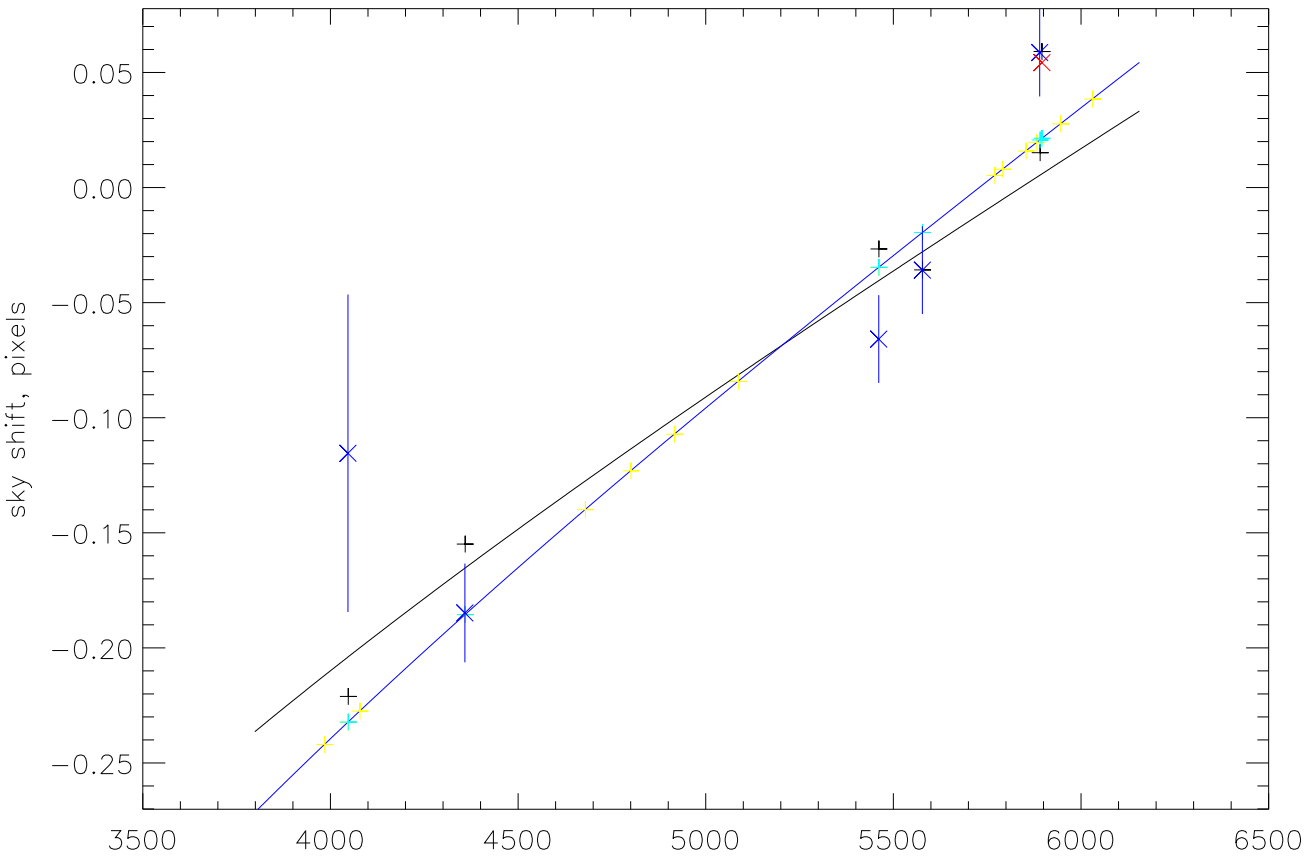

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

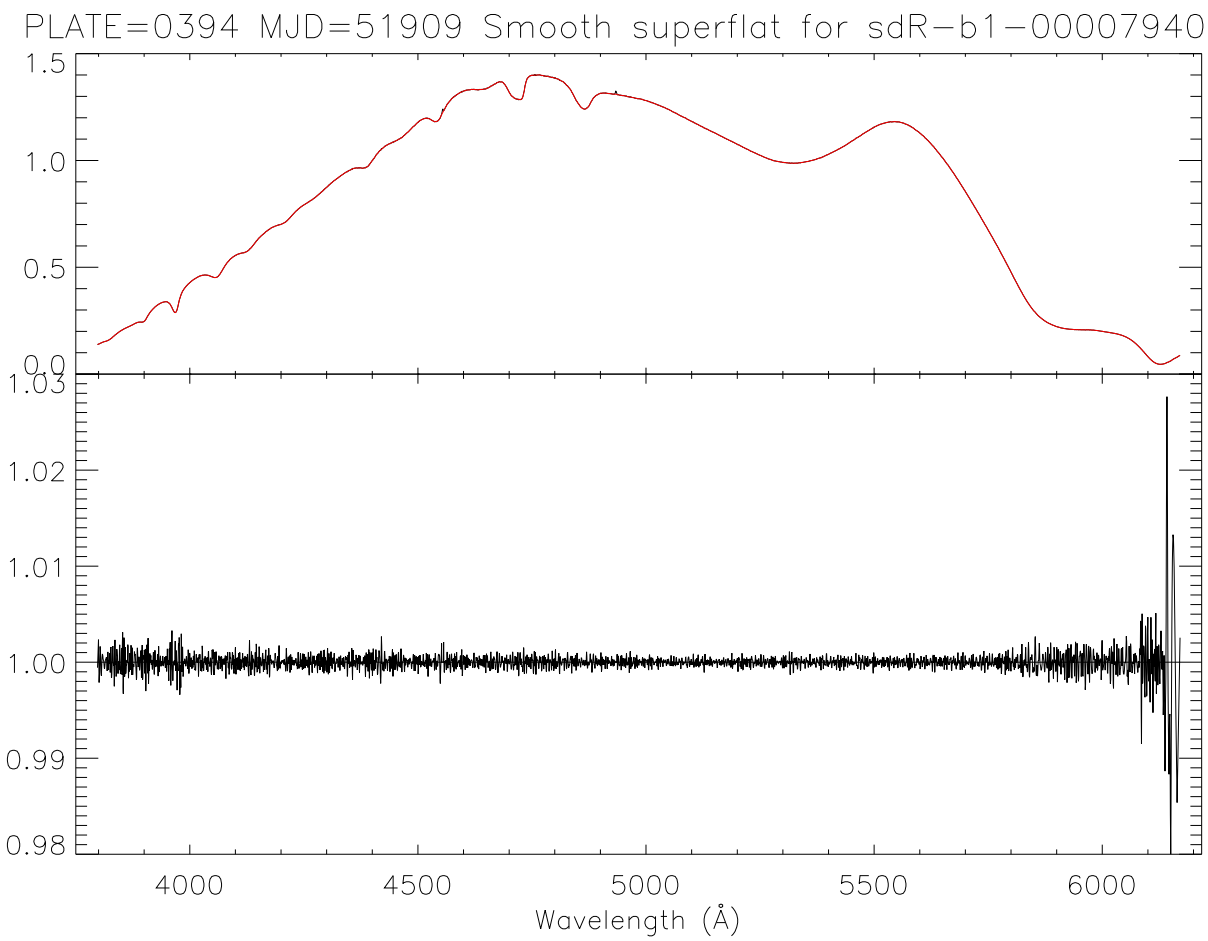

5889.9500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

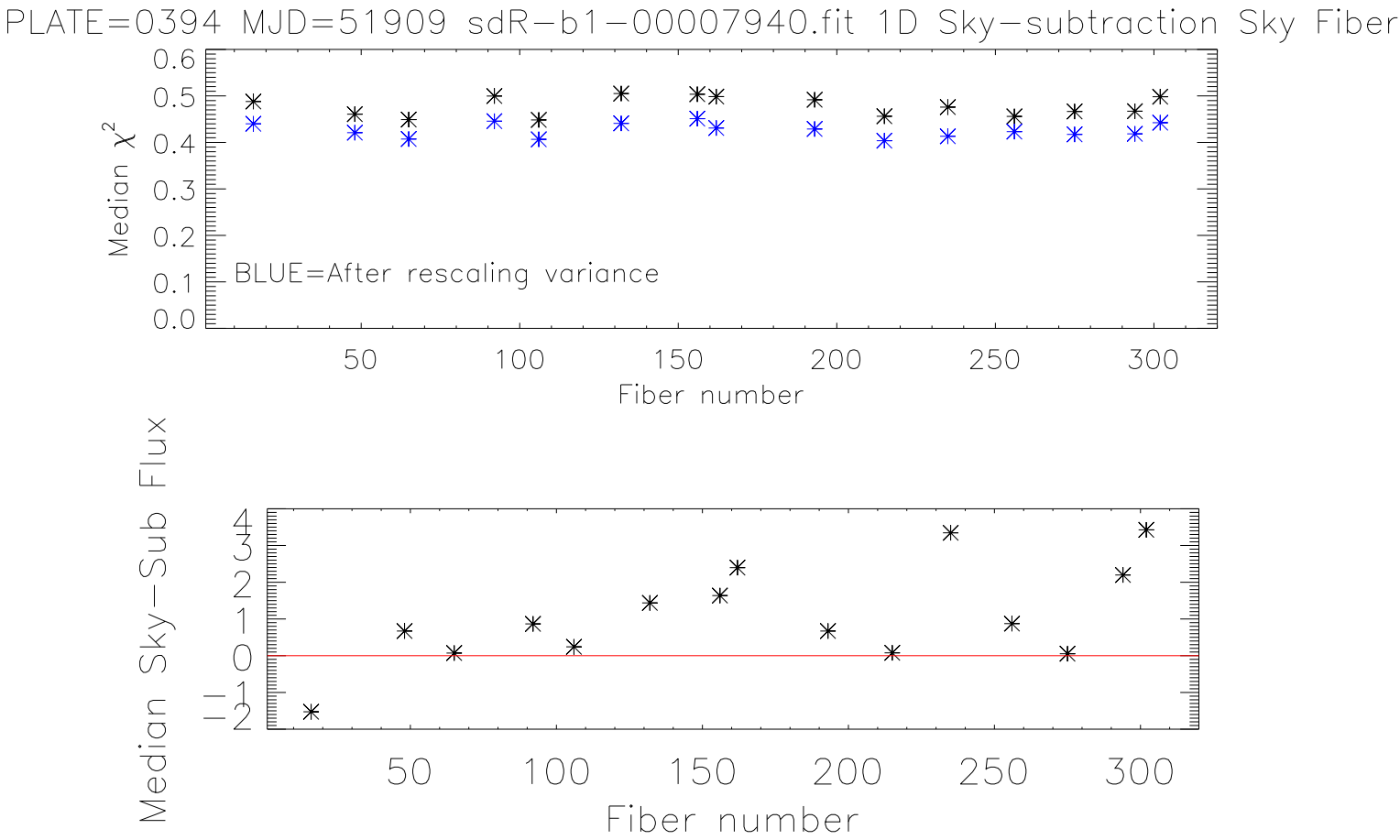

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

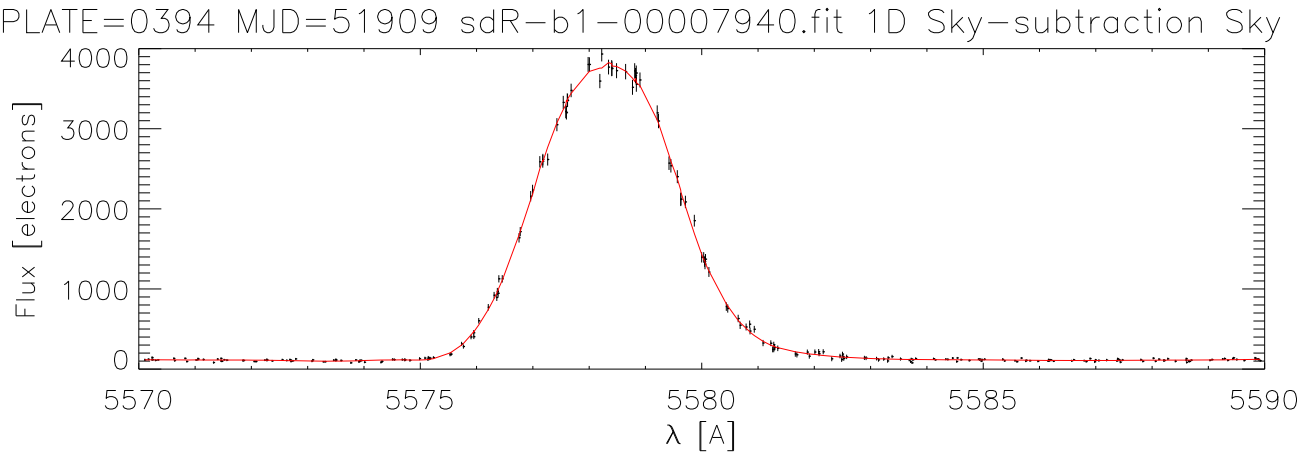

4046.5600
nfib1 16
nfib2 16
stdev 0.088
extra −0.12
4358.3300
nfib1 16
nfib2 16
stdev 0.031
extra −0.18
5460.9400
nfib1 16
nfib2 16
stdev 0.056
extra −0.07
5577.3390
nfib1 16
nfib2 16
stdev 0.013
extra −0.04
5889.9500
nfib1 16
nfib2 16
stdev 0.025
extra 0.06
5895.9240
nfib1 16
nfib2 16
stdev 0.055
extra 0.05
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

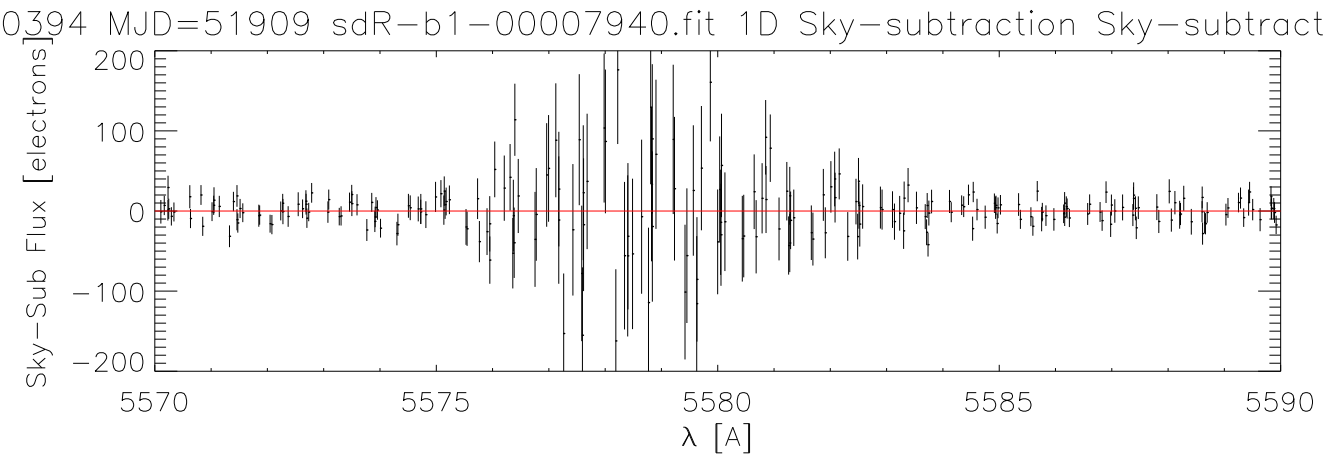

0.05
0.00
−0.05
−0.10
−0.15
−0.20
−0.25
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

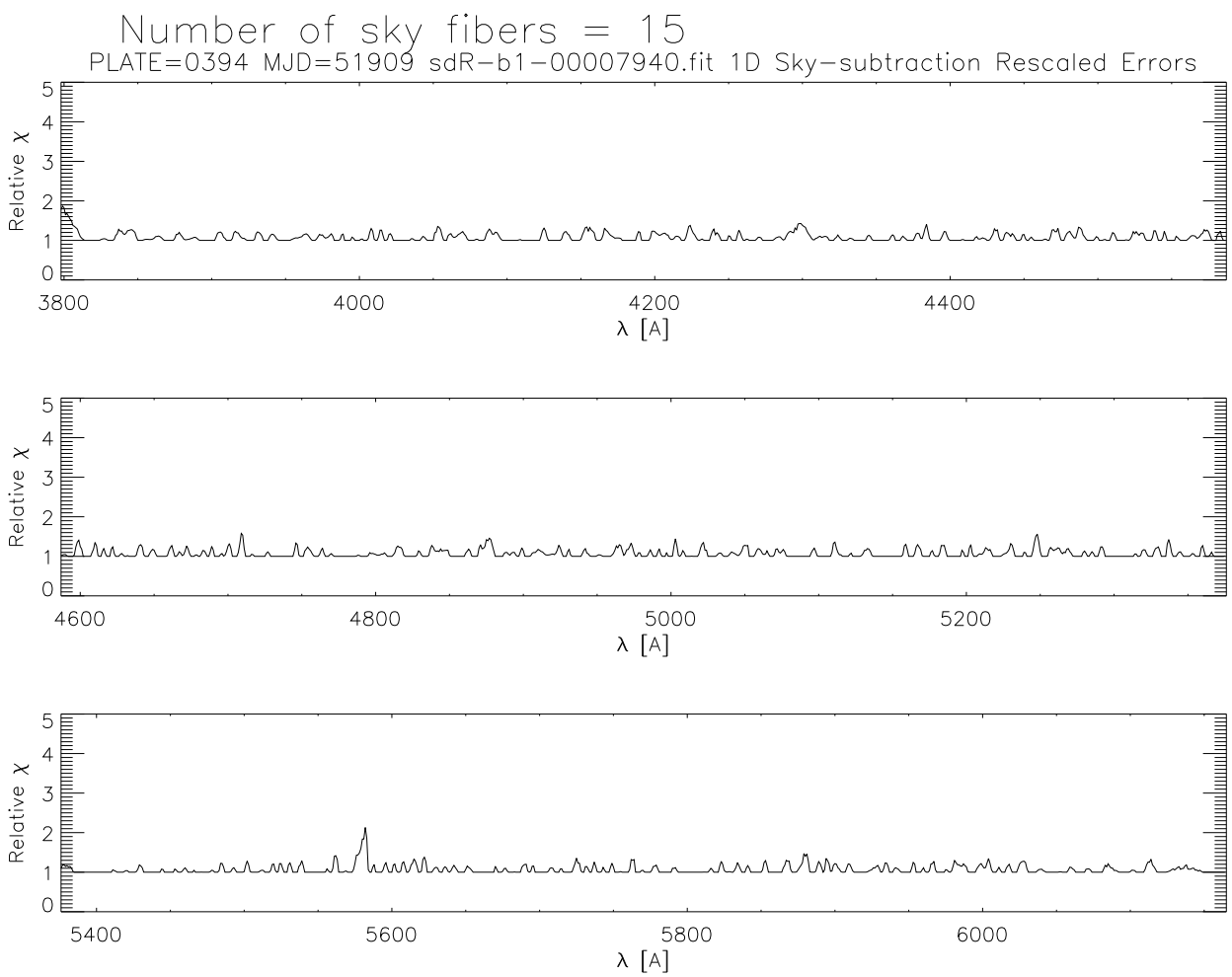
es= 0.0000

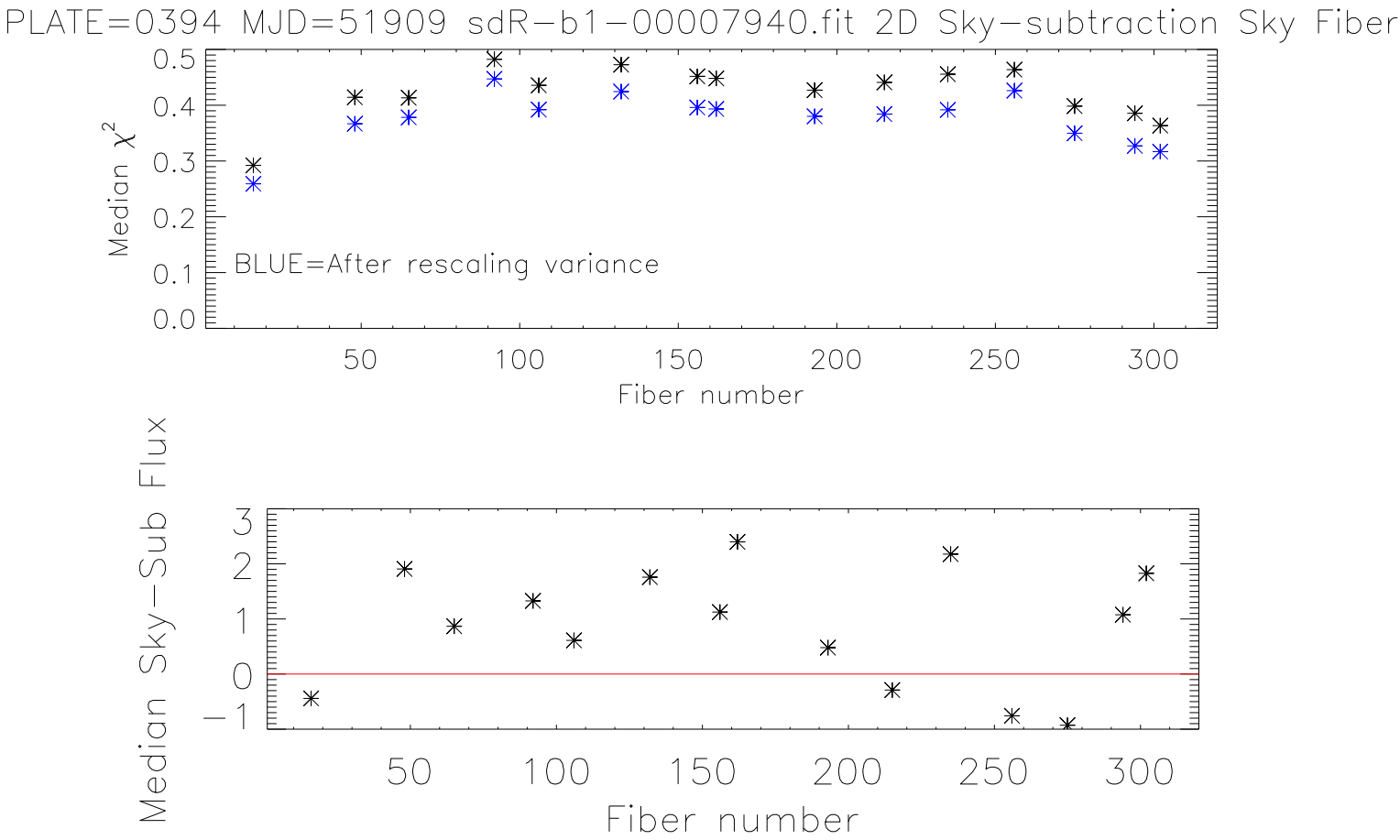

PLATE=0394 MJD=51909 Smooth superflat for sdR-b1-00007940.fit
1.5
1.0
0.5
0.0
1.03
1.02
1.01
1.00
0.99
0.98
4000
4500
5000
5500
6000
Wavelength (Å)

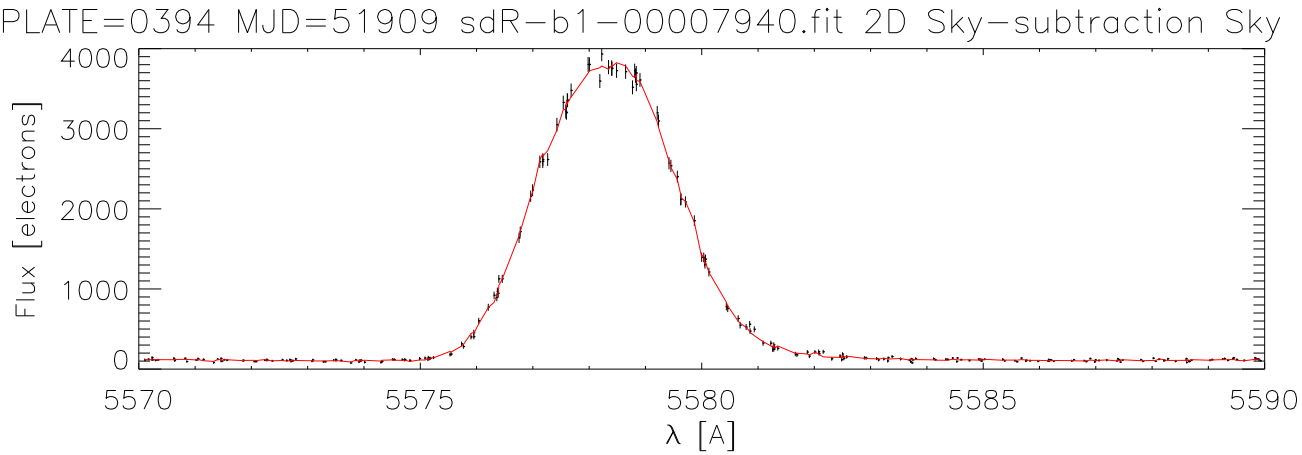

PLATE=0394 MJD=51909 sdR-b1-00007940.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
4
50
100
150
200
250
300
Fiber number

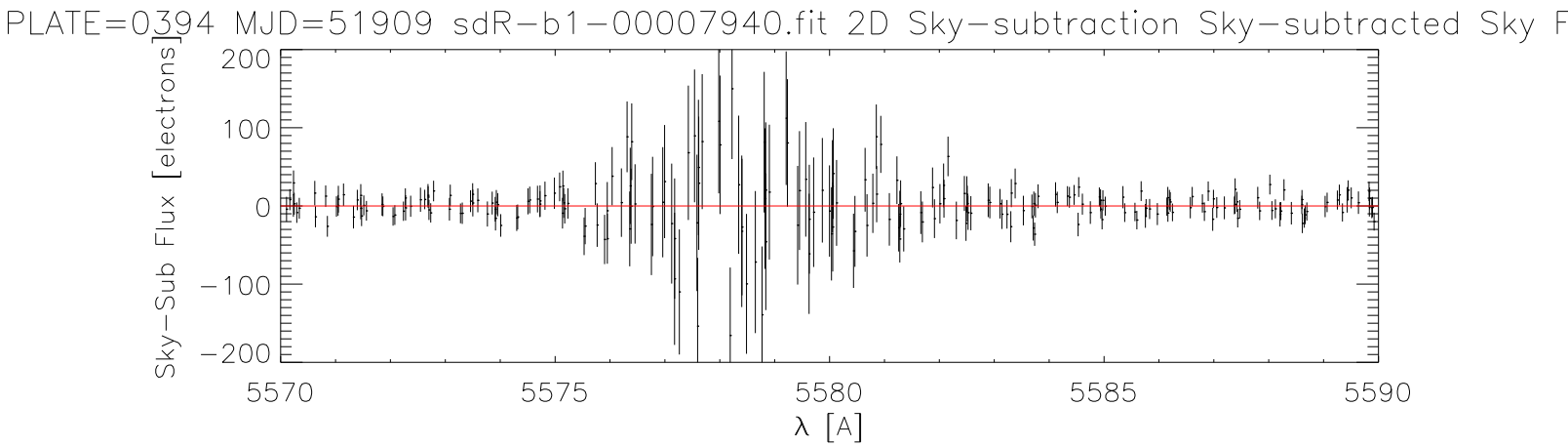

PLATE=0394 MJD=51909 sdR-b1-00007940.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

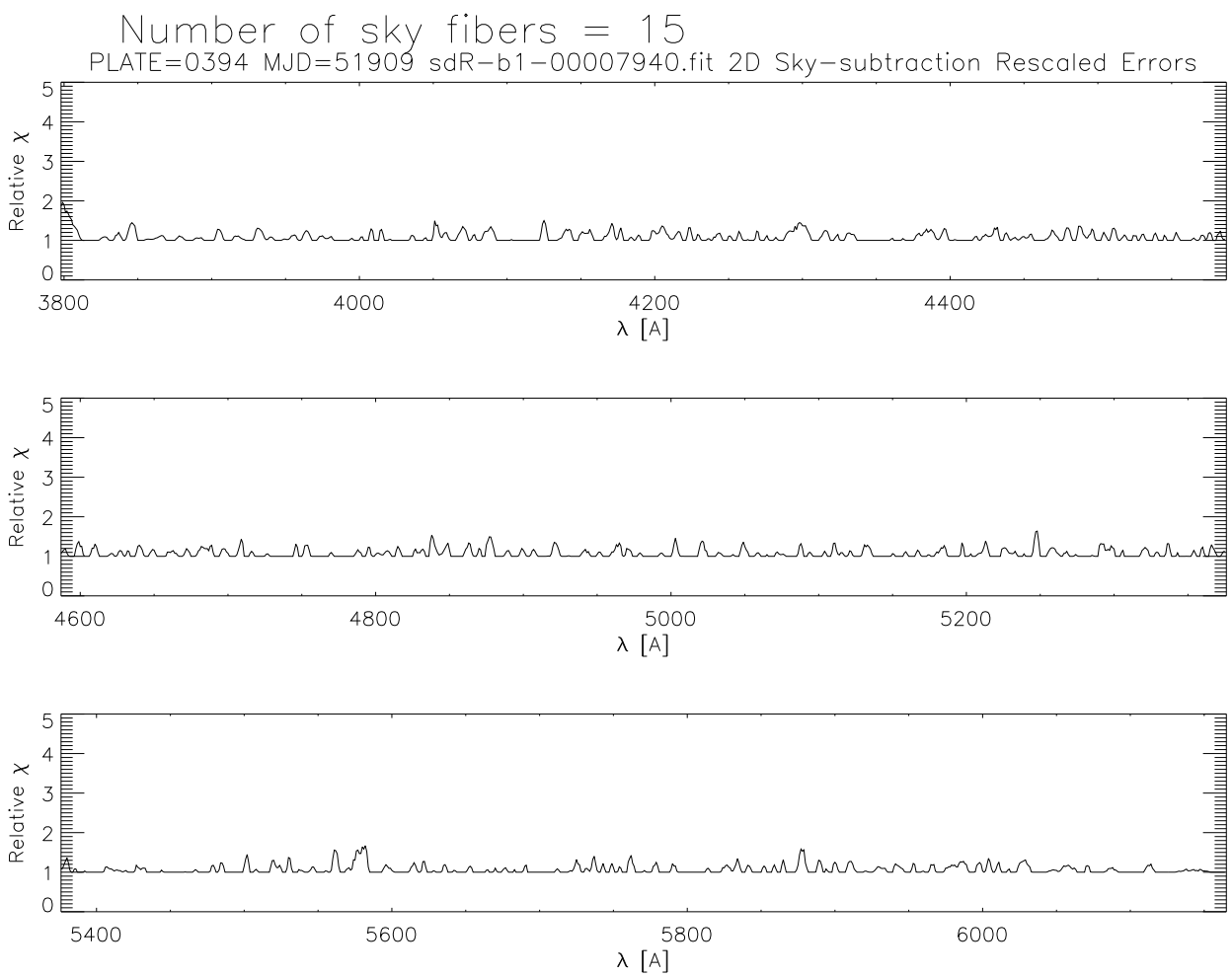

PLATE=0394 MJD=51909 sdR-b1-00007940.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

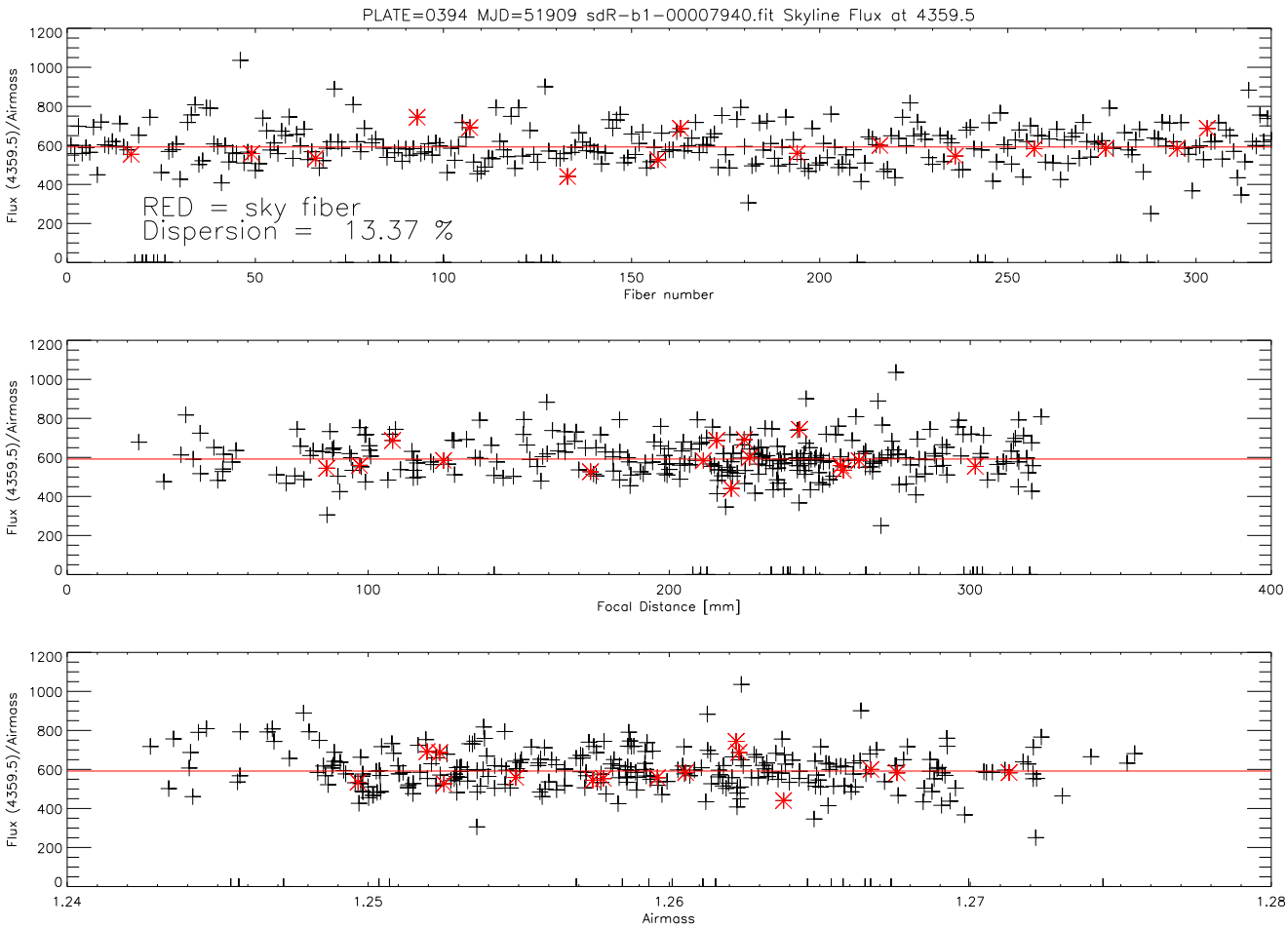

Number of sky fibers = 15
PLATE=0394 MJD=51909 sdR-b1-00007940.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

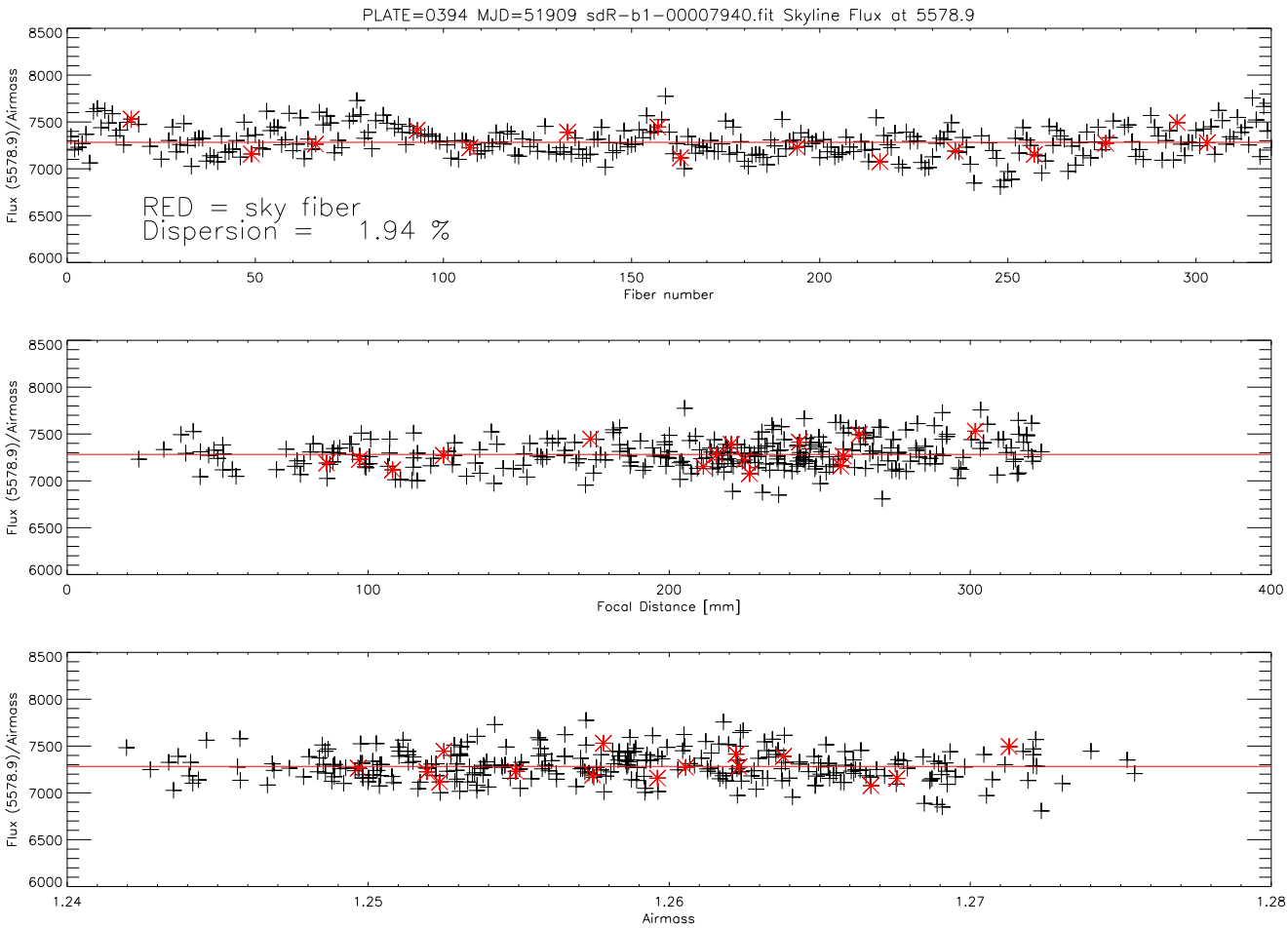

PLATE=0394 MJD=51909 sdR-b1-00007940.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
−1
0
1
2
3
50
100
150
200
250
300
Fiber number

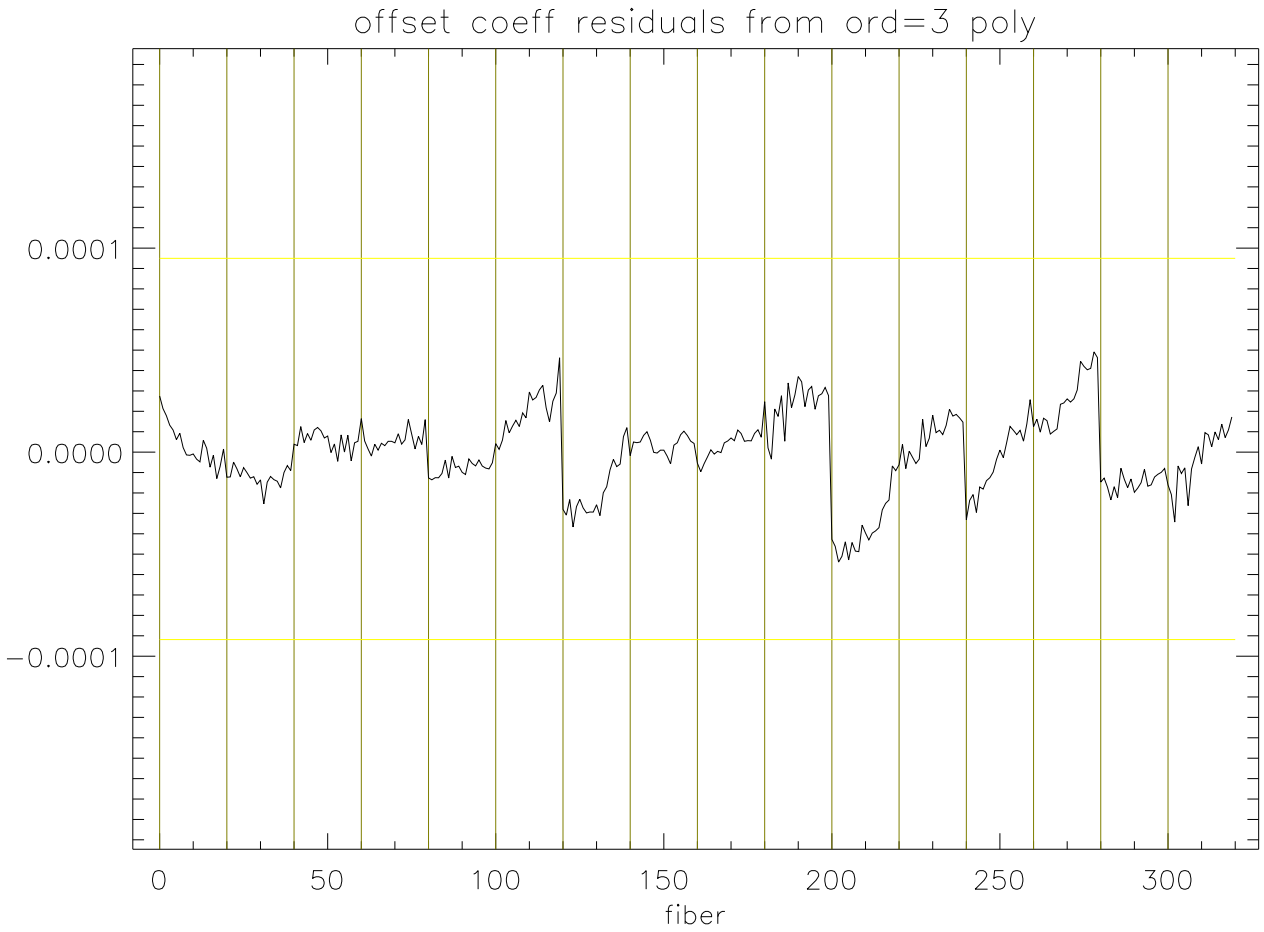

PLATE=0394 MJD=51909 sdR-b1-00007940.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

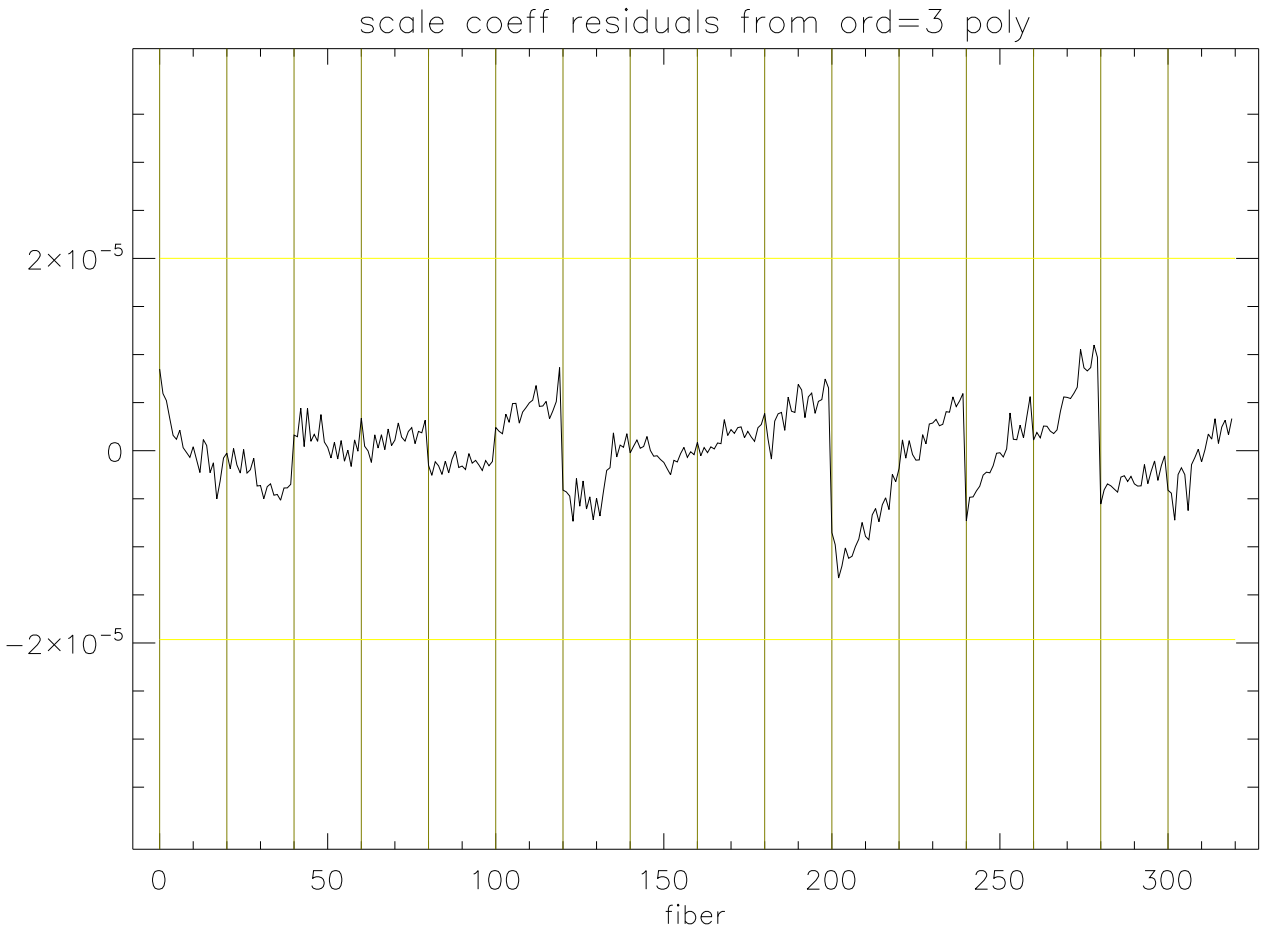

PLATE=0394 MJD=51909 sdR-b1-00007940.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

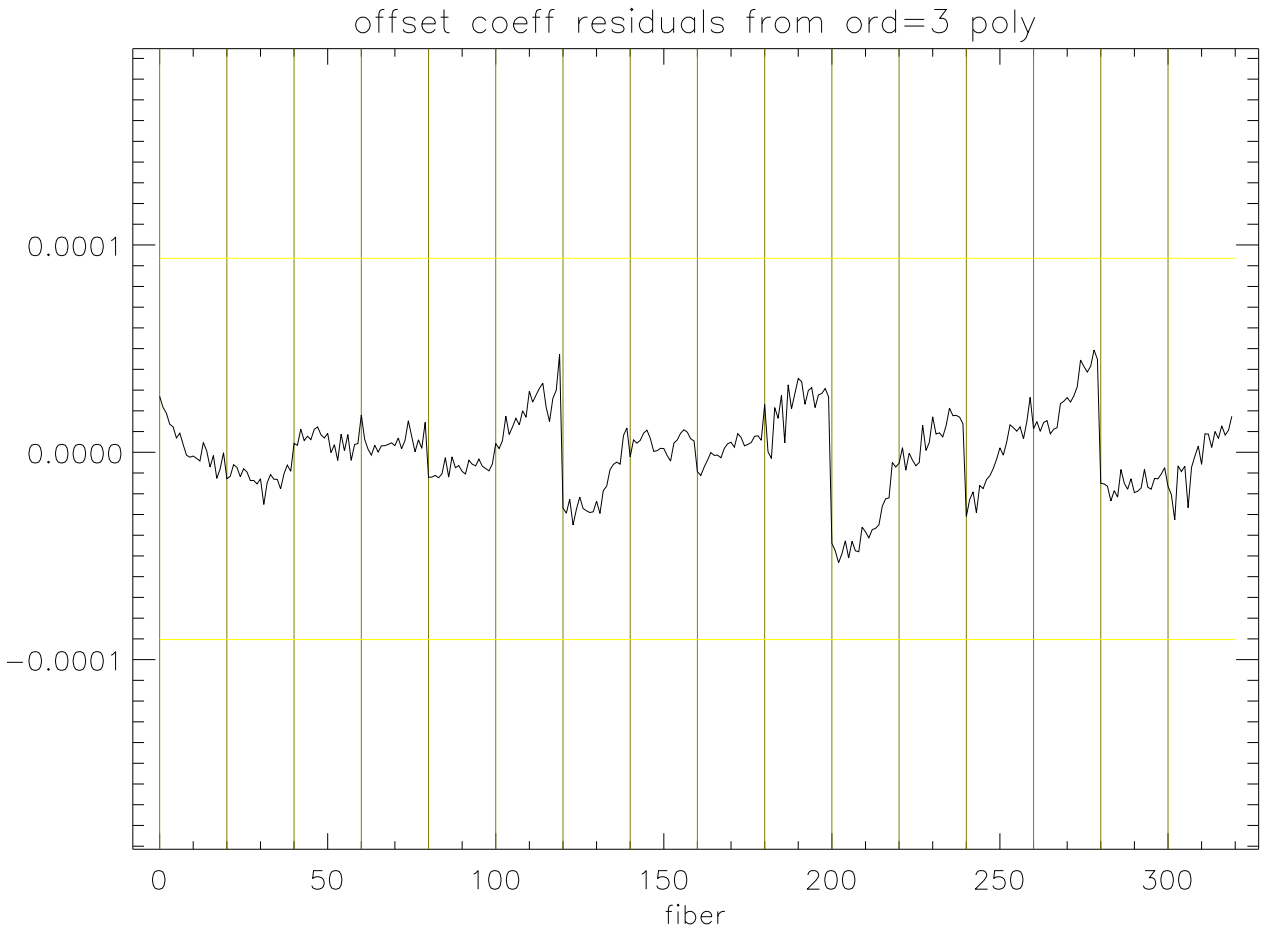

Number of sky fibers = 15
PLATE=0394 MJD=51909 sdR-b1-00007940.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

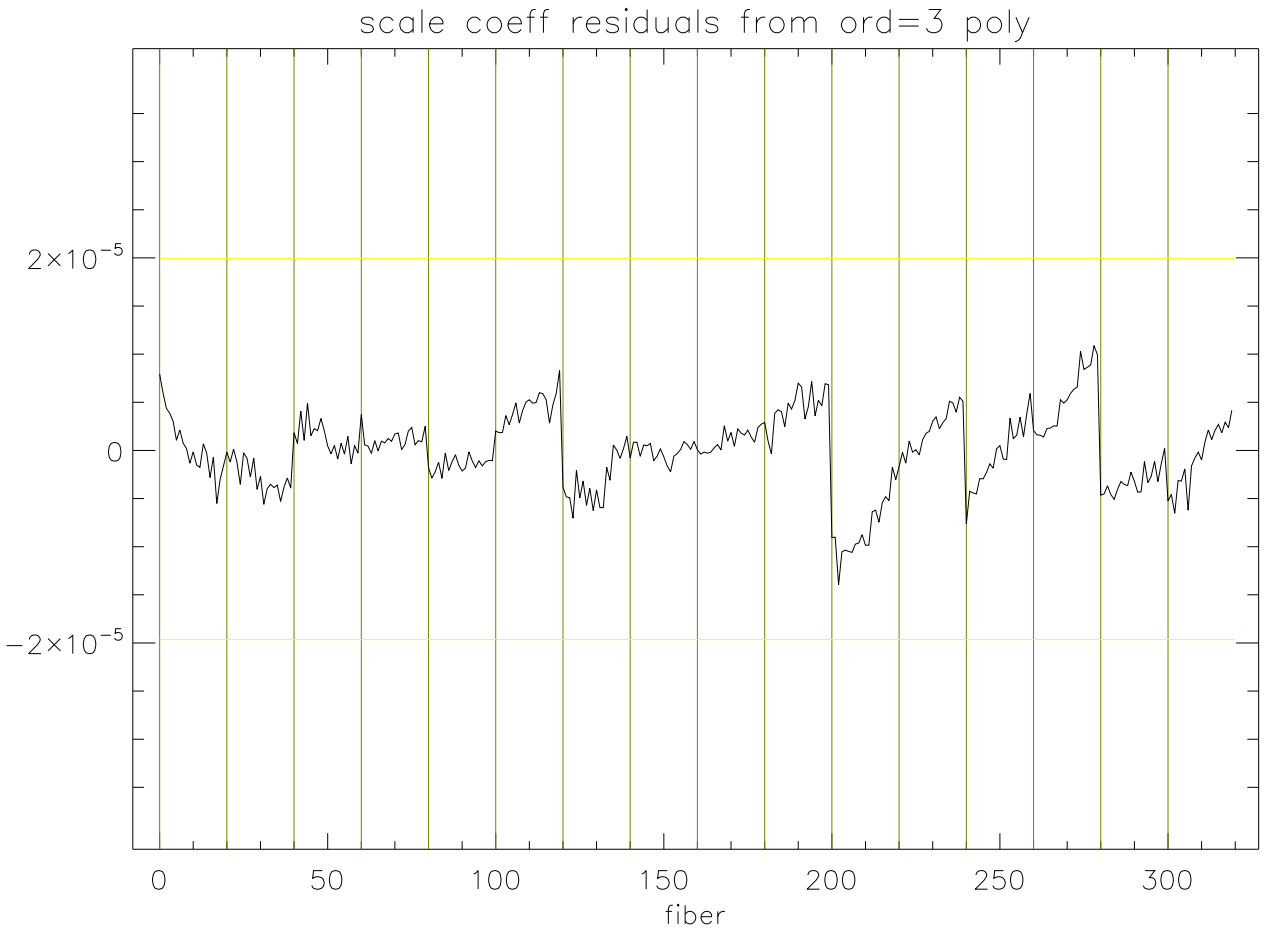

PLATE=0394 MJD=51909 sdR-b1-00007940.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 13.37 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

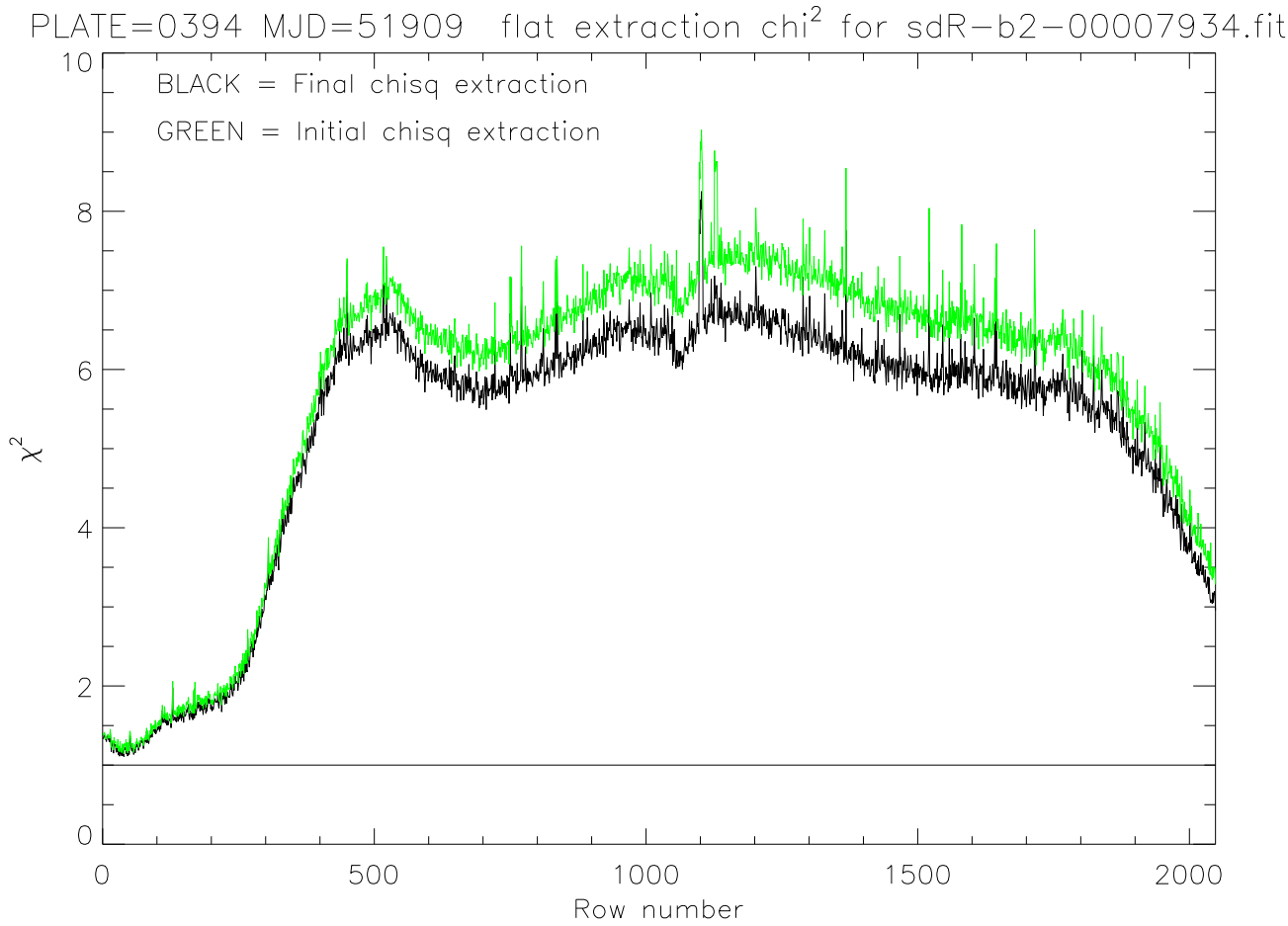

PLATE=0394 MJD=51909 sdR-b1-00007940.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.94 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

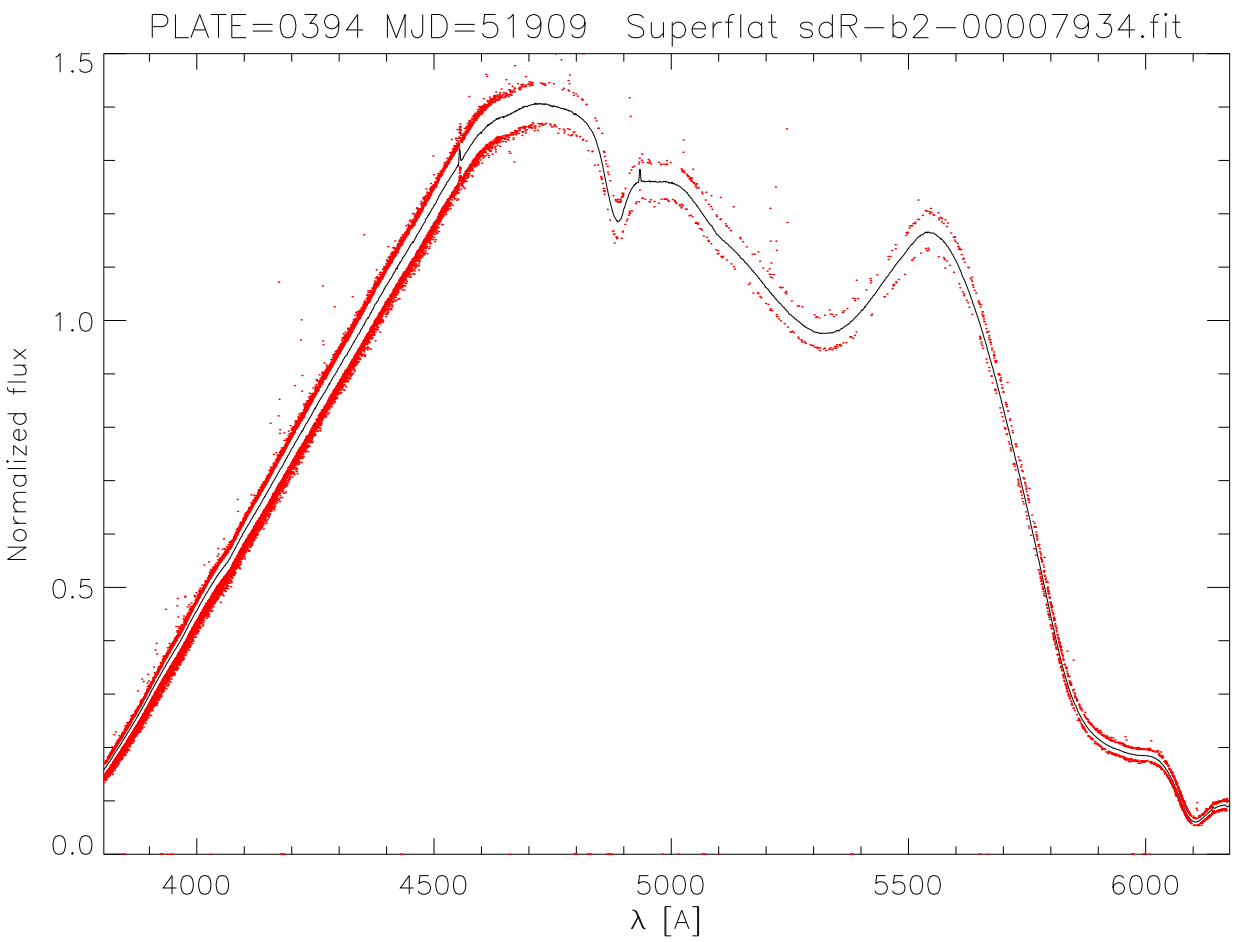

offset coeff residuals from ord=3 poly
0.0001
0.0000
−0.0001
0
50
100
150
200
250
300
fiber

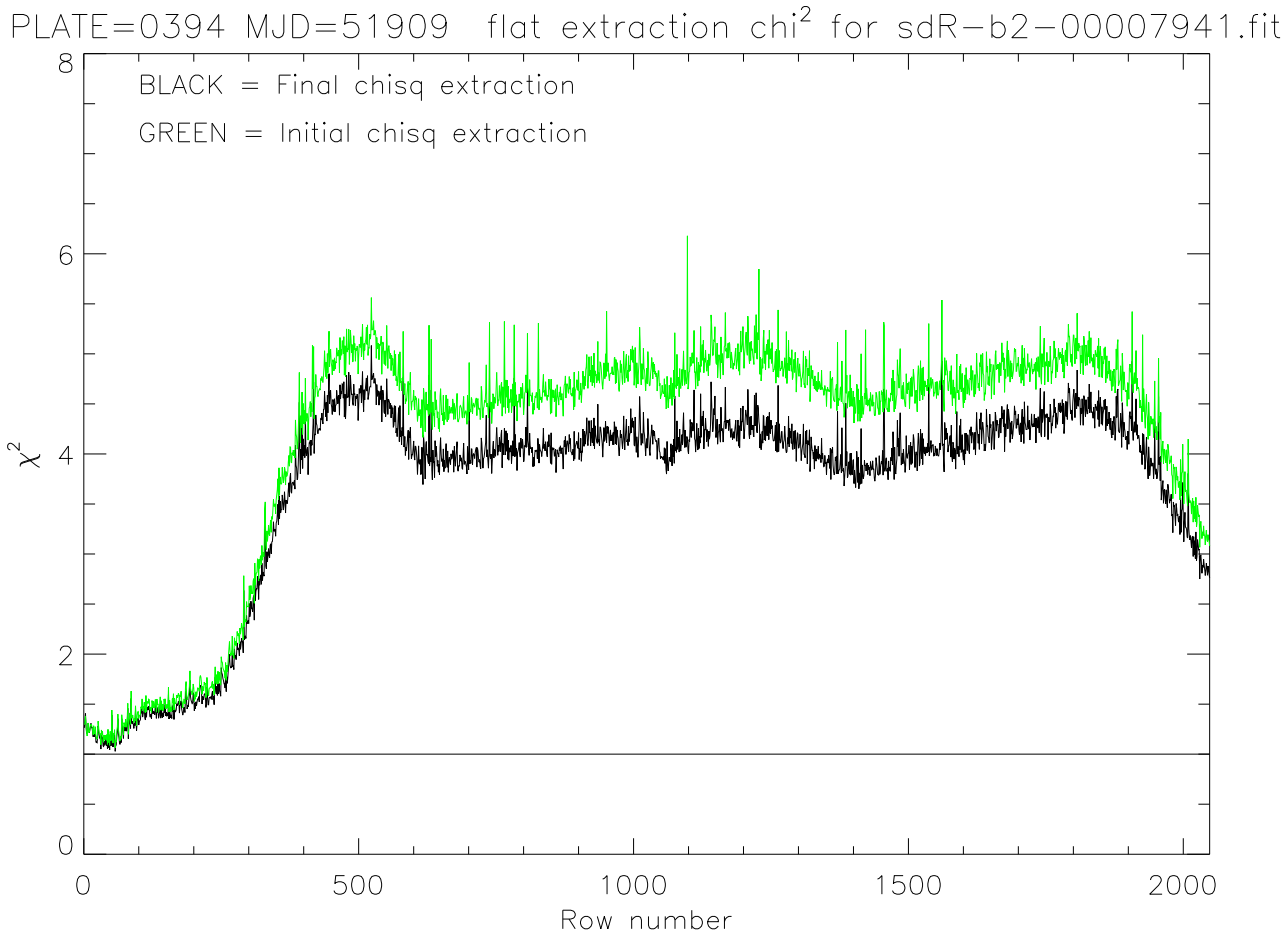

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

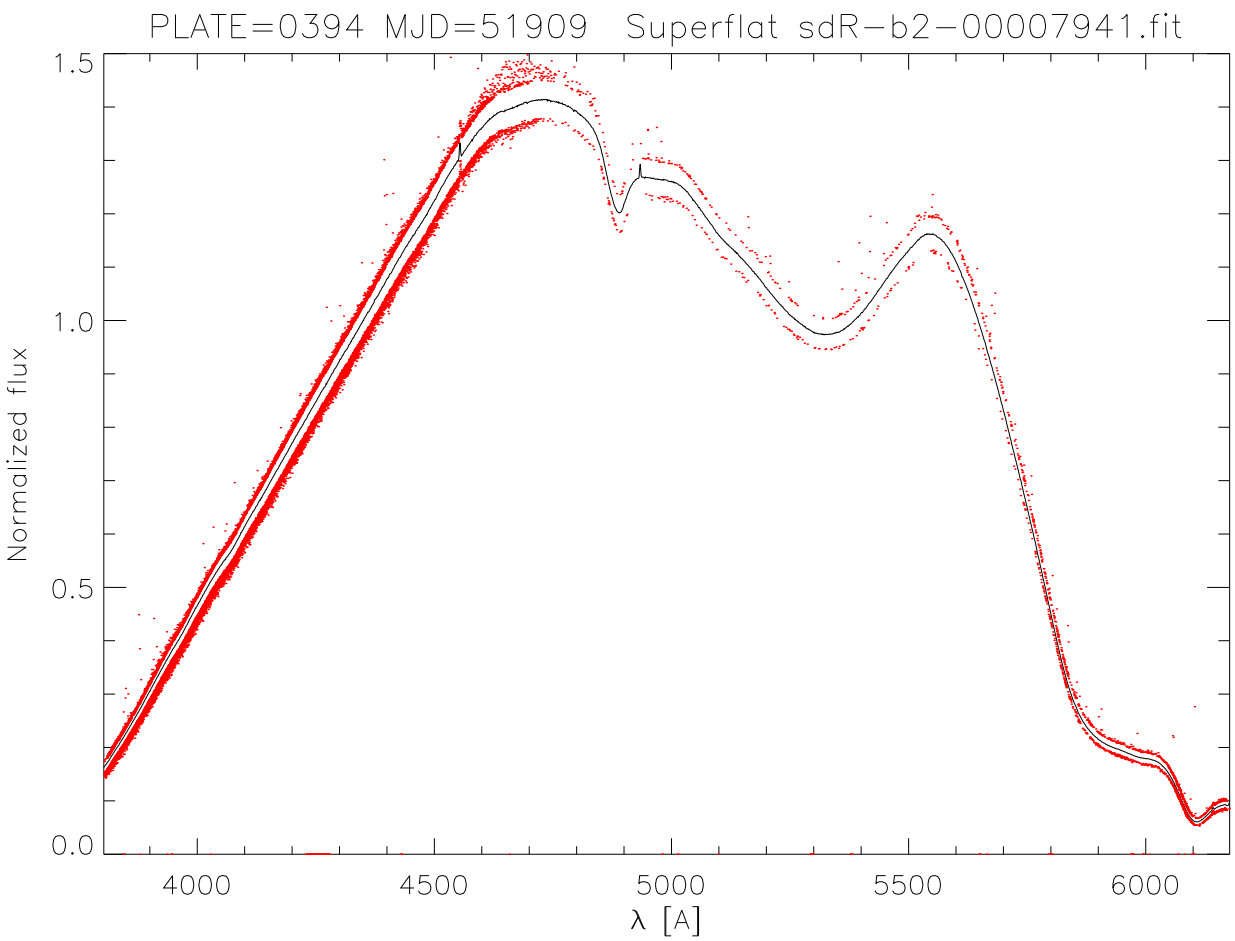

offset coeff residuals from ord=3 poly
0.0001
0.0000
−0.0001
0
50
100
150
200
250
300
fiber

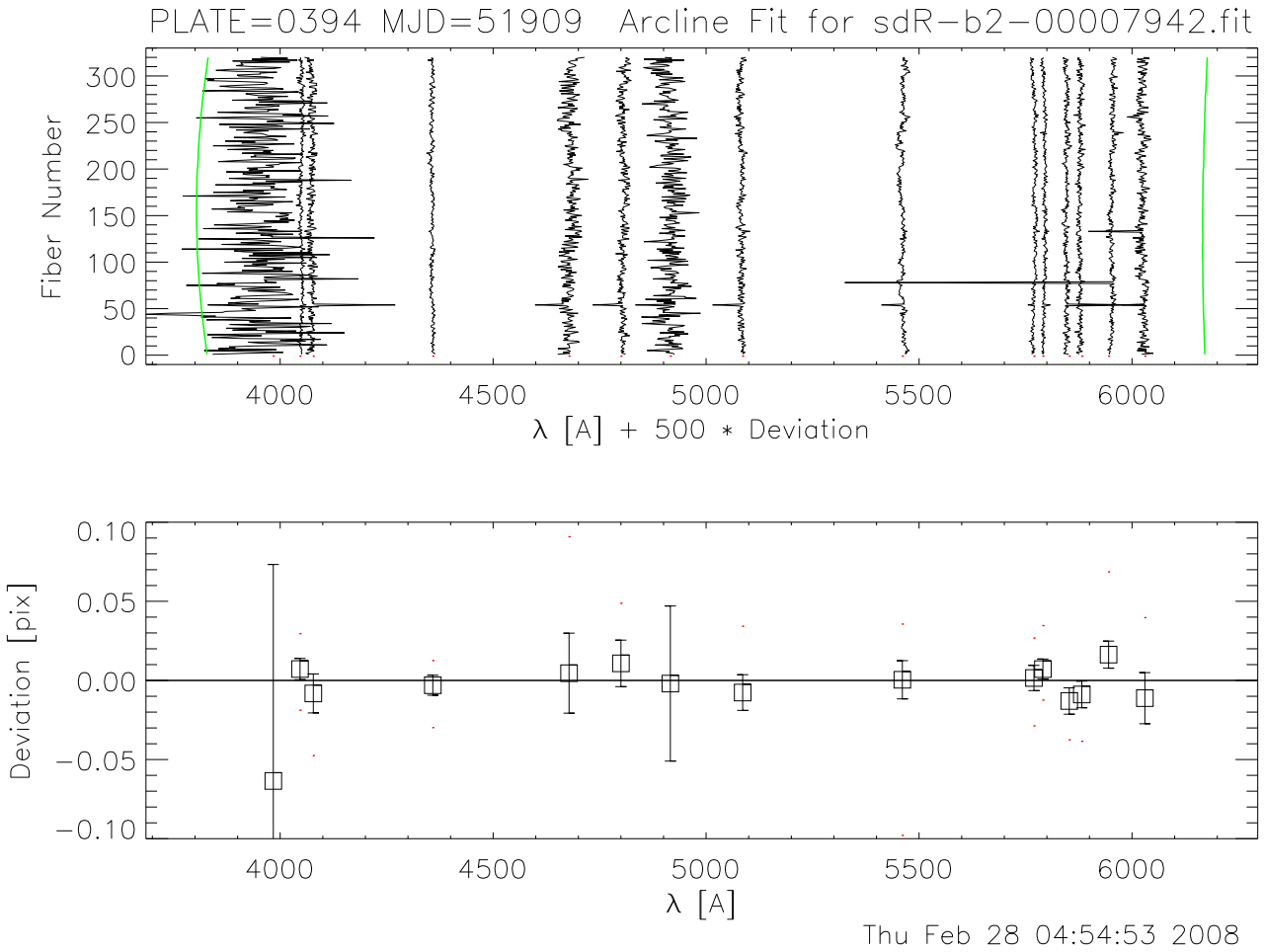

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

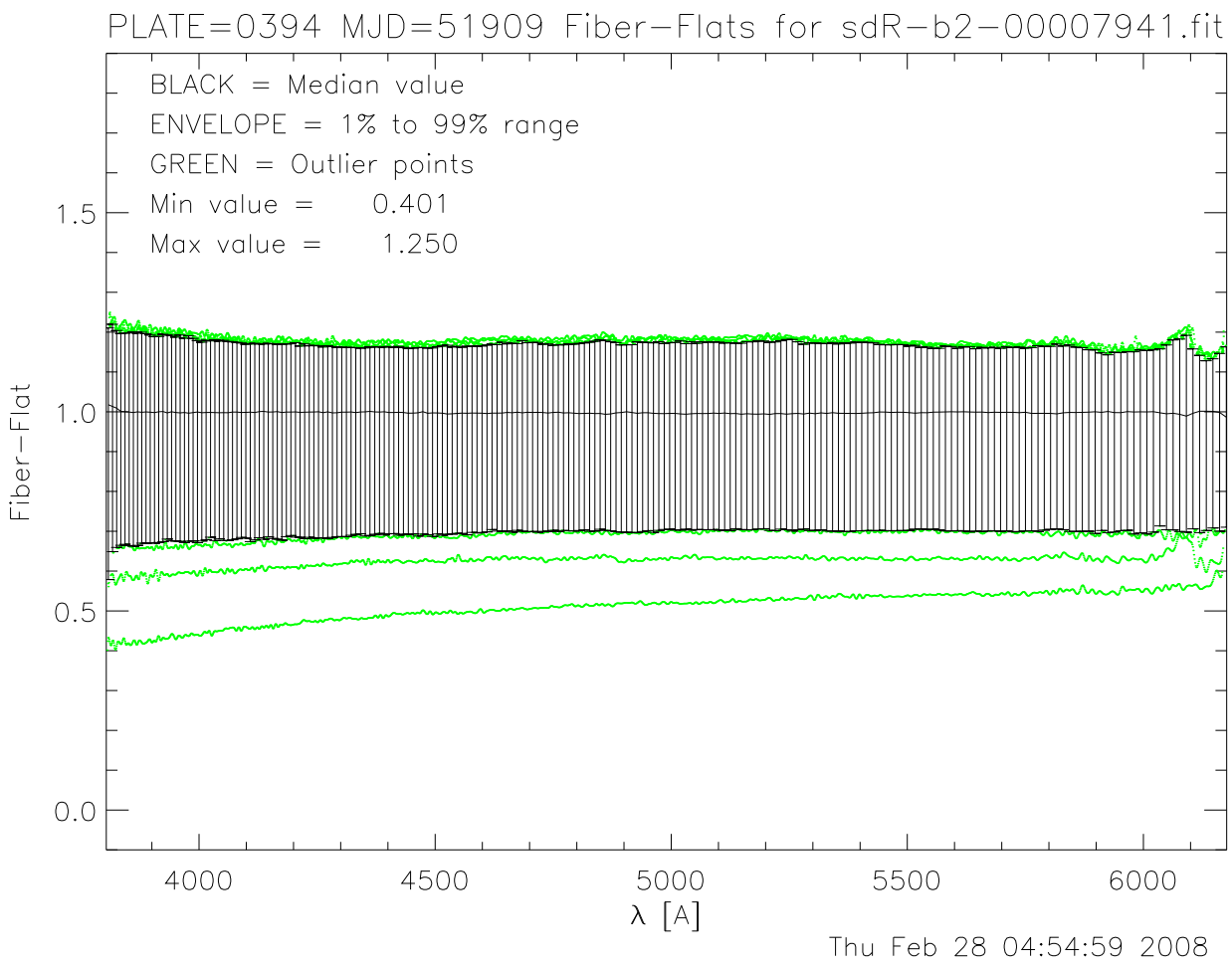

PLATE=0394 MJD=51909 flat extraction chi^2 for sdR−b2−00007934.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

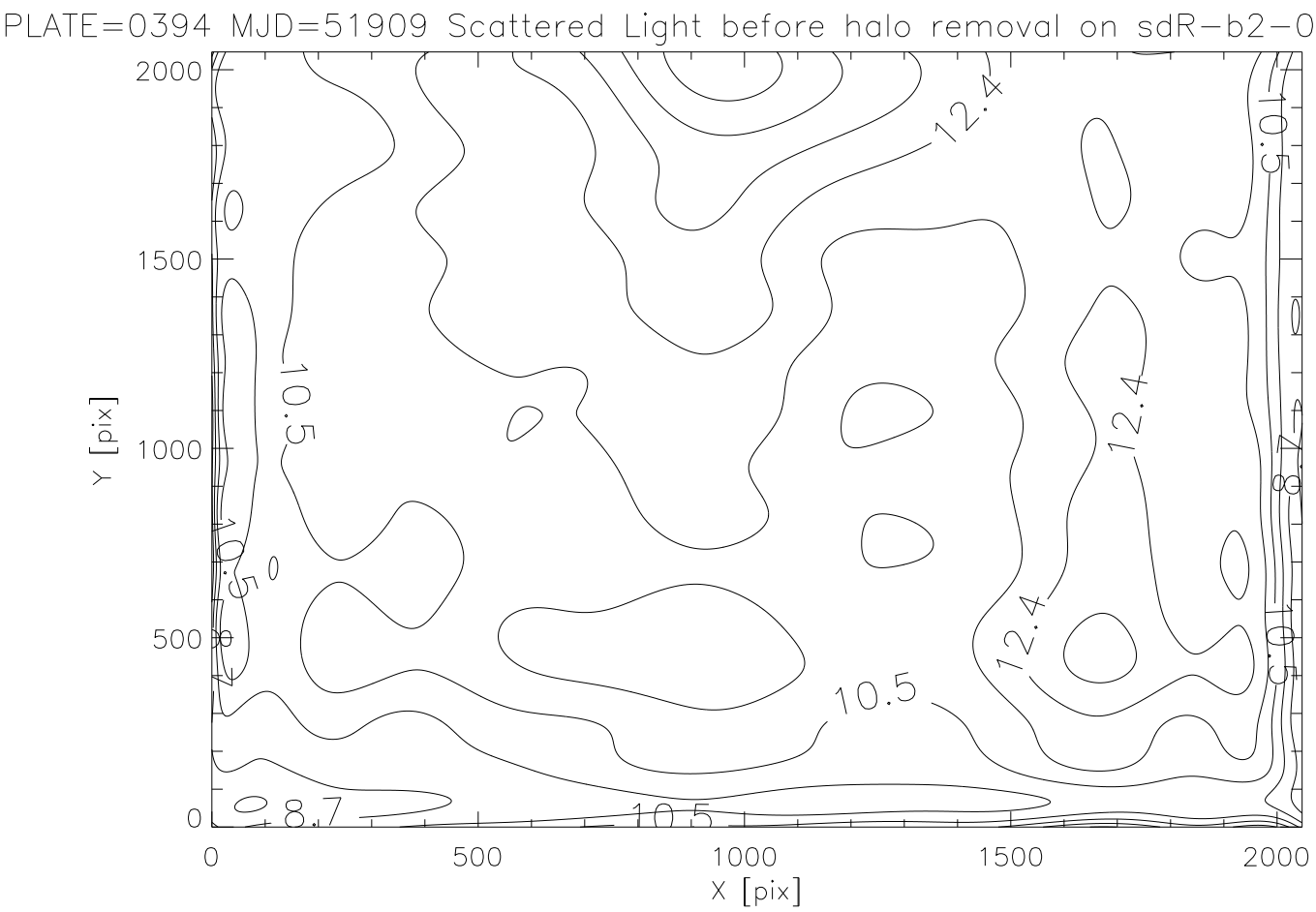

PLATE=0394 MJD=51909 Superflat sdR-b2-00007934.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

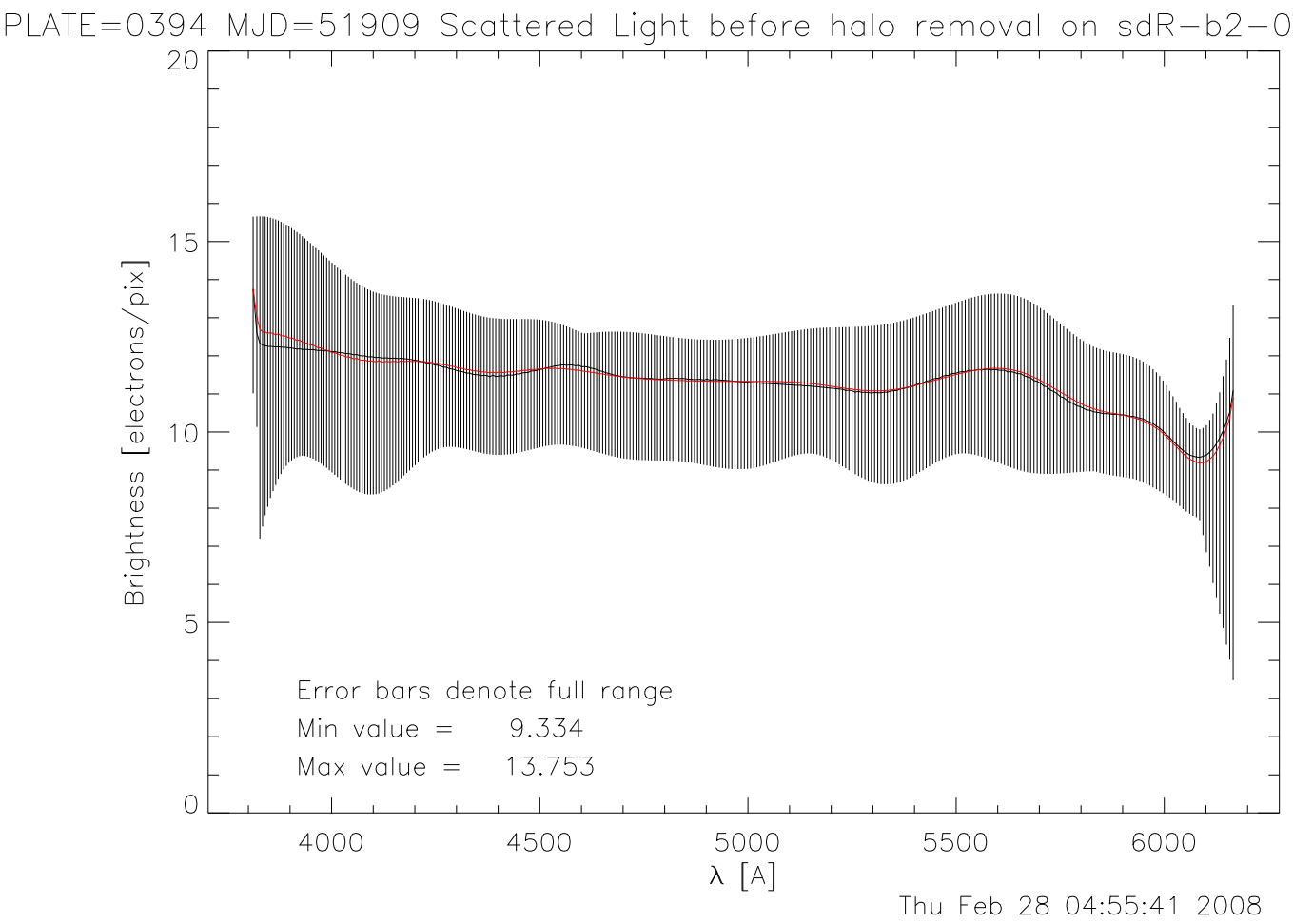

PLATE=0394 MJD=51909 flat extraction chi^2 for sdR−b2−00007941.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

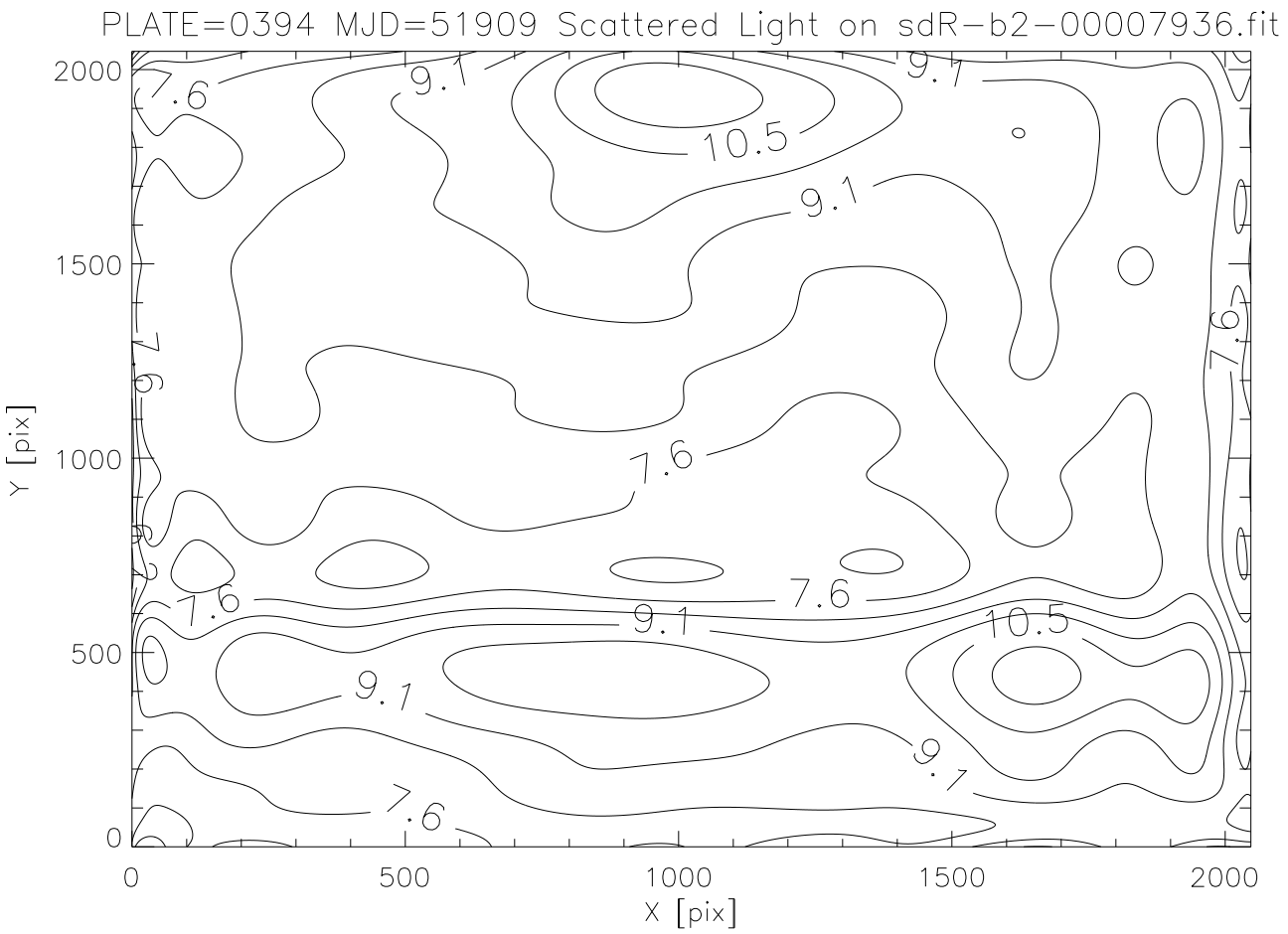

PLATE=0394 MJD=51909 Superflat sdR-b2-00007941.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

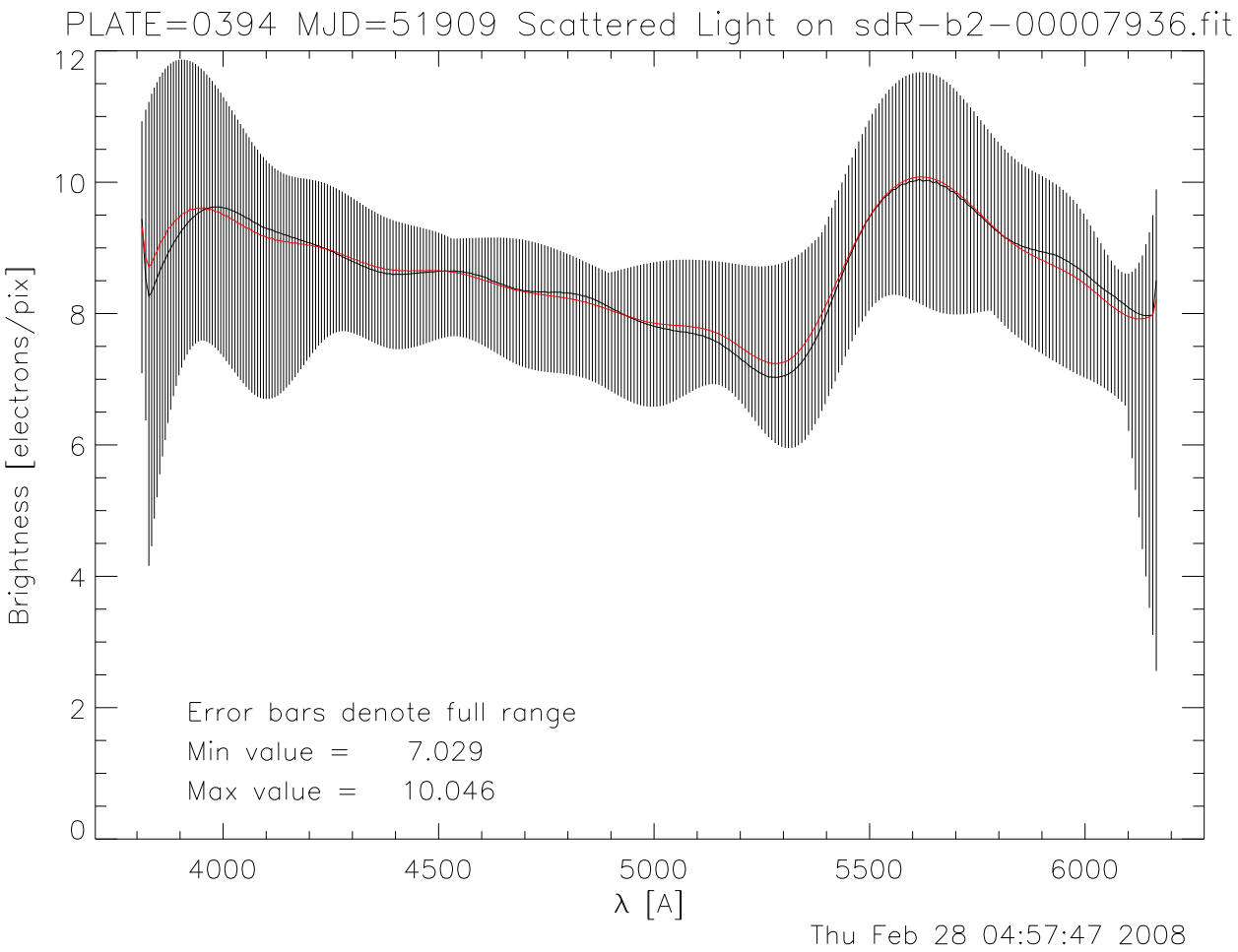

PLATE=0394 MJD=51909 Arcline Fit for sdR-b2-00007942.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Thu Feb 28 04:54:53 2008

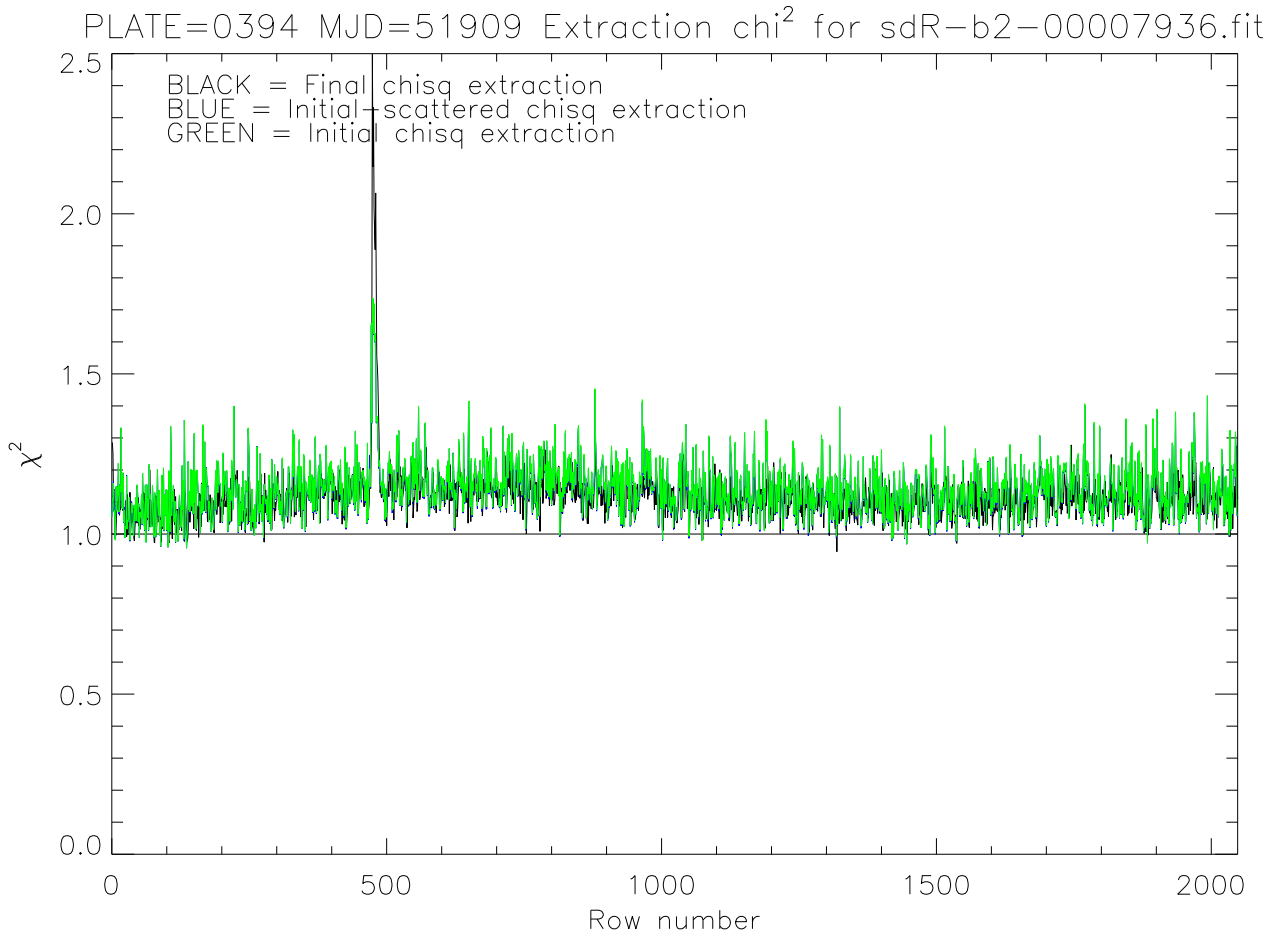

PLATE=0394 MJD=51909 Fiber−Flats for sdR−b2−00007941.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.401
Max value = 1.250
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Thu Feb 28 04:54:59 2008

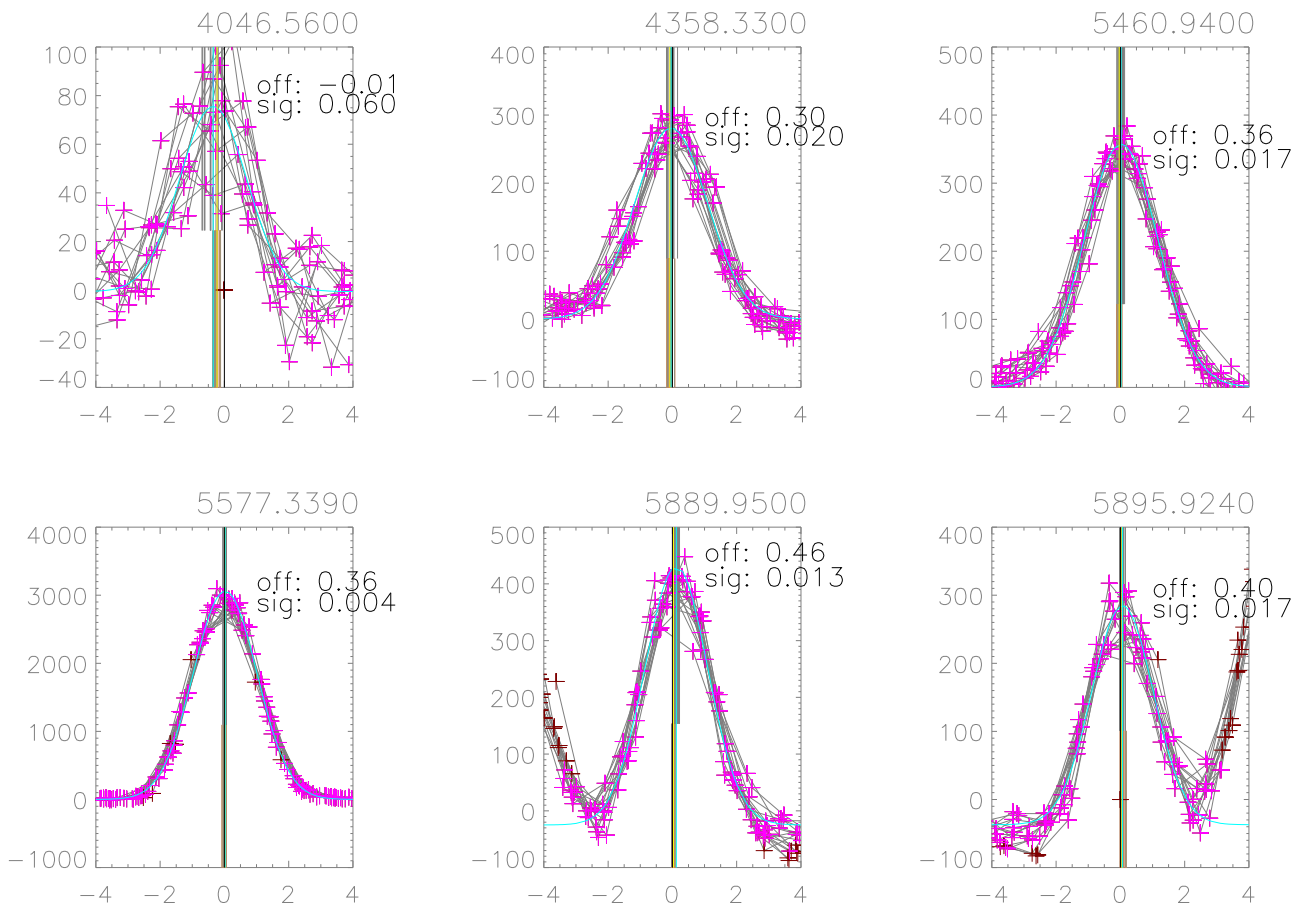

PLATE=0394 MJD=51909 Scattered Light before halo removal on sdR-b2-00007936.f
Y [pix]
X [pix]
0
500
1000
1500
2000
8.7
10.5
12.4

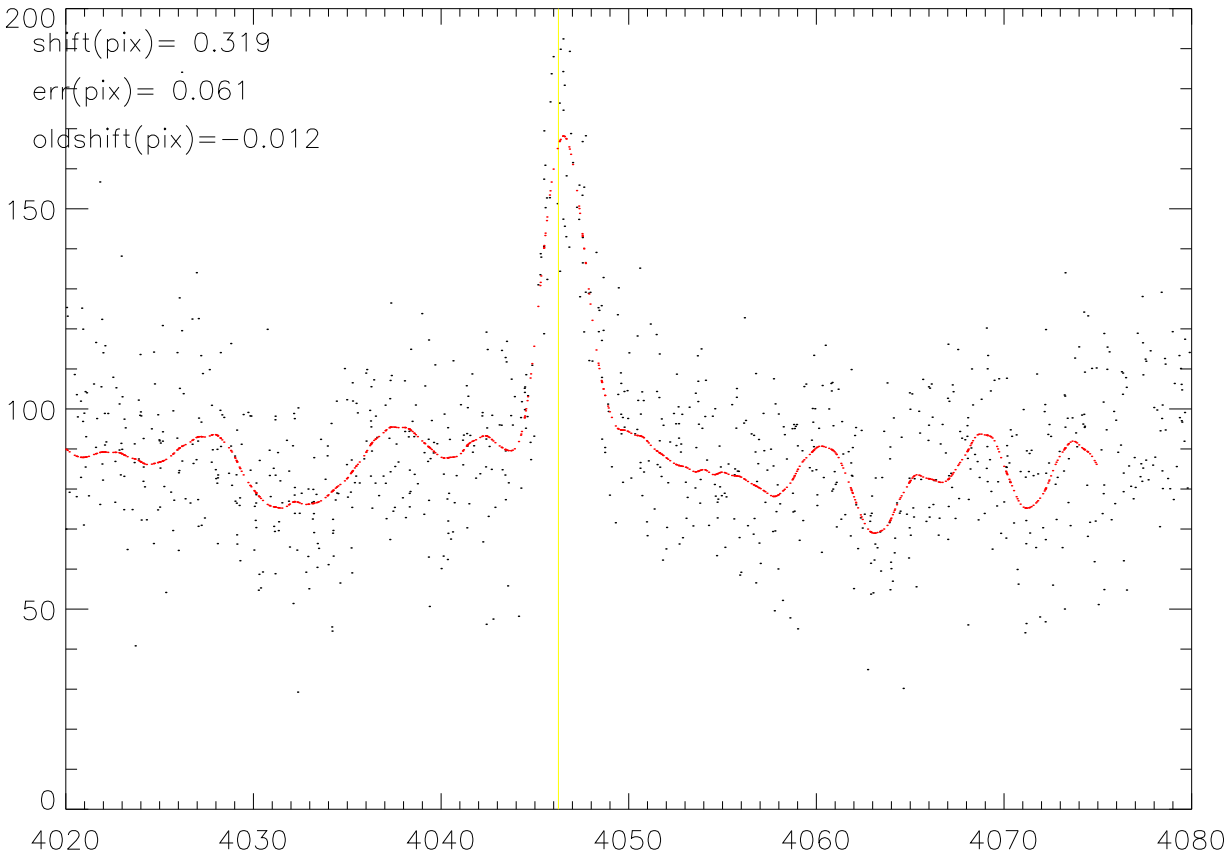

PLATE=0394 MJD=51909 Scattered Light before halo removal on sdR-b2-00007936.f
Brightness [electrons/pix]
20
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 9.334
Max value = 13.753
Thu Feb 28 04:55:41 2008

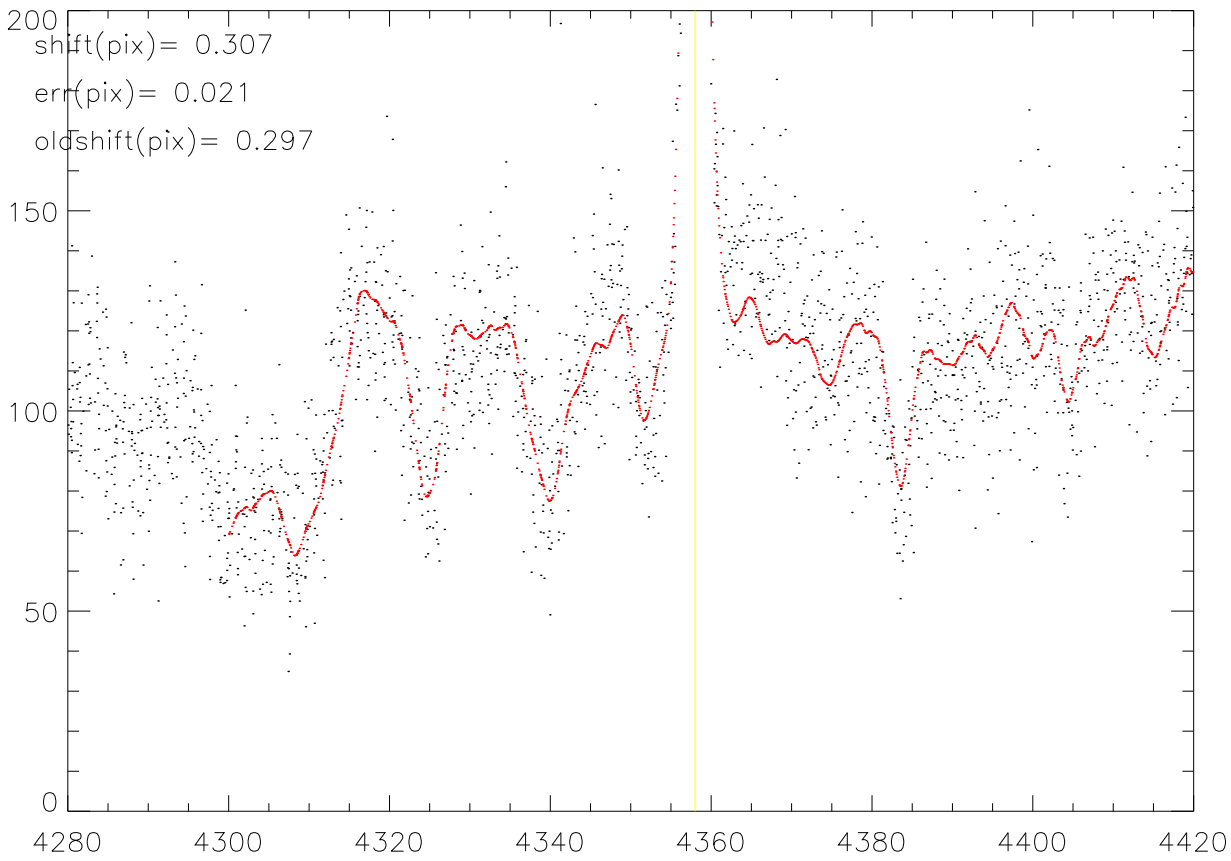

PLATE=0394 MJD=51909 Scattered Light on sdR-b2-00007936.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
7.6
9.1
10.5

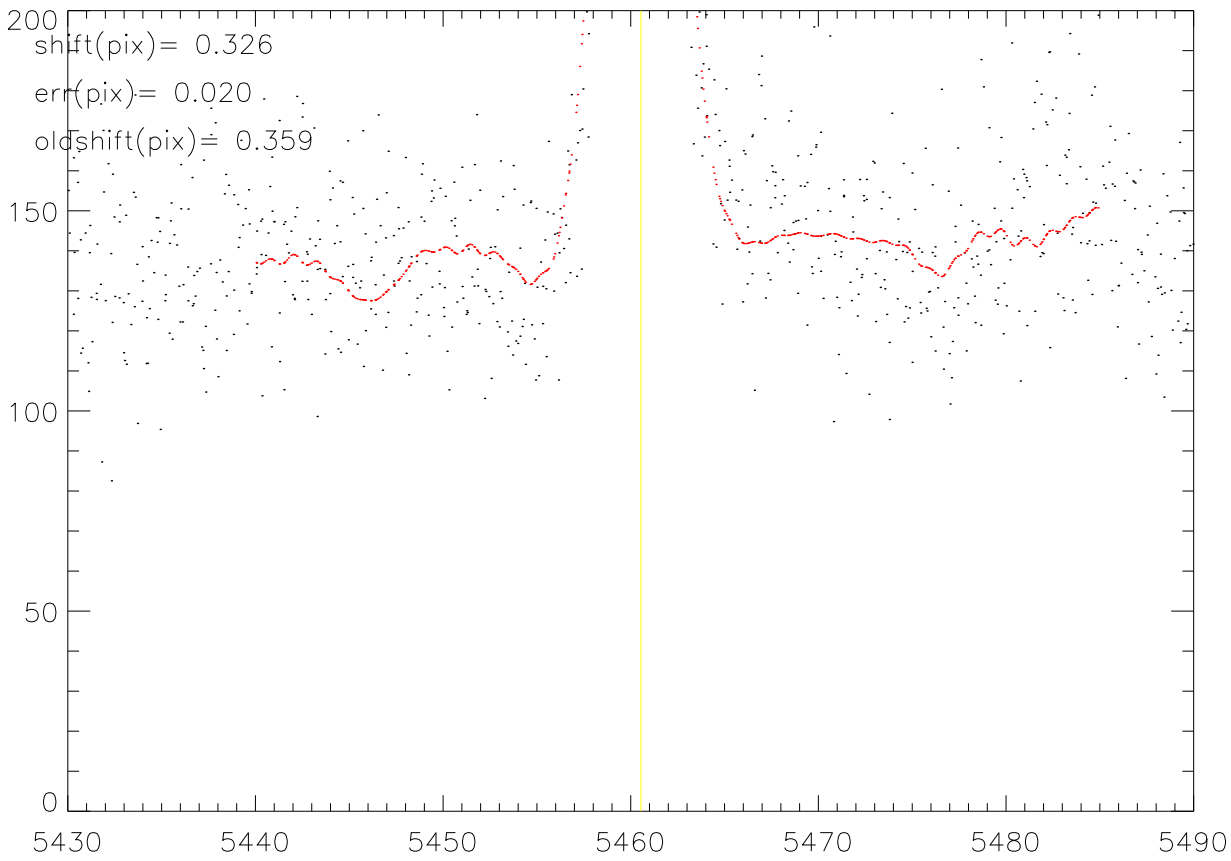

PLATE=0394 MJD=51909 Scattered Light on sdR-b2-00007936.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.029
Max value = 10.046
Thu Feb 28 04:57:47 2008

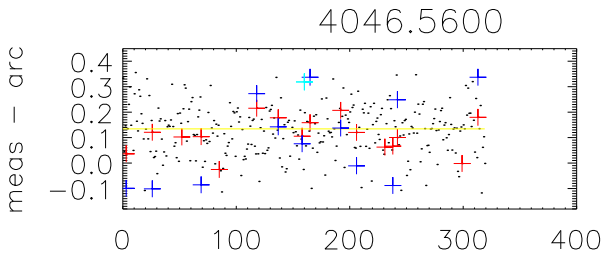

PLATE=0394 MJD=51909 Extraction chi^2 for sdR-b2-00007936.fit
BLACK = Final chisq extraction
BLUE = Initial+scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

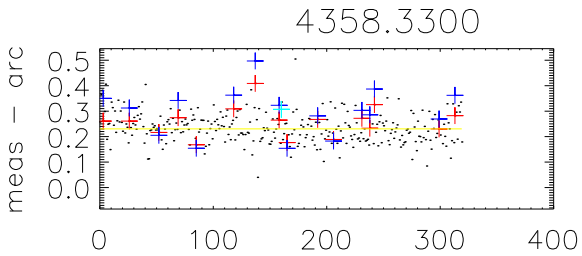

4046.5600
off: −0.01
sig: 0.060
4358.3300
off: 0.30
sig: 0.020
5460.9400
off: 0.36
sig: 0.017
5577.3390
off: 0.36
sig: 0.004
5889.9500
off: 0.46
sig: 0.013
5895.9240
off: 0.40
sig: 0.017

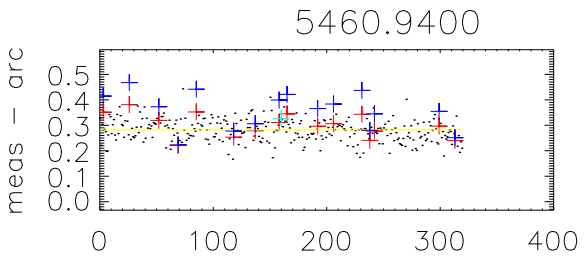

shift(pix)= 0.319
err(pix)= 0.061
oldshift(pix)=-0.012
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

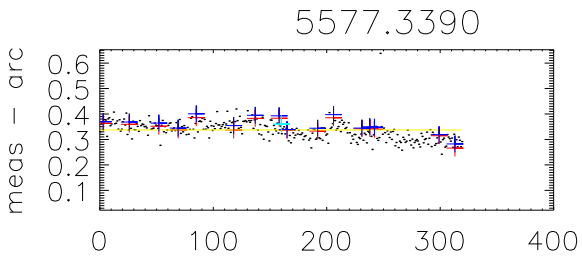

shift(pix)= 0.307
err(pix)= 0.021
oldshift(pix)= 0.297
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

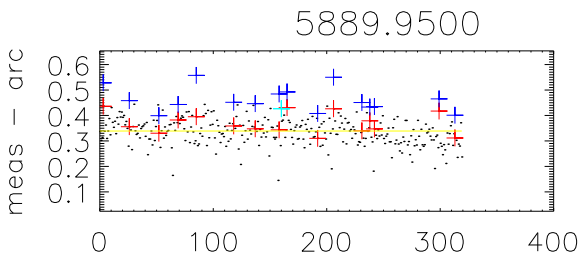

shift(pix)= 0.326
err(pix)= 0.020
oldshift(pix)= 0.359
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

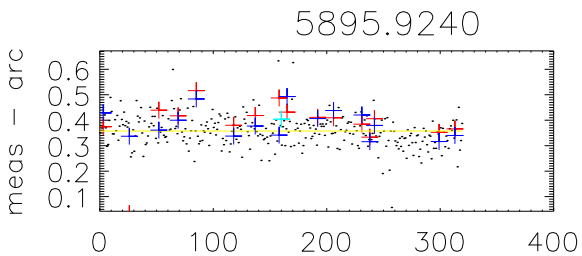

4046.5600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

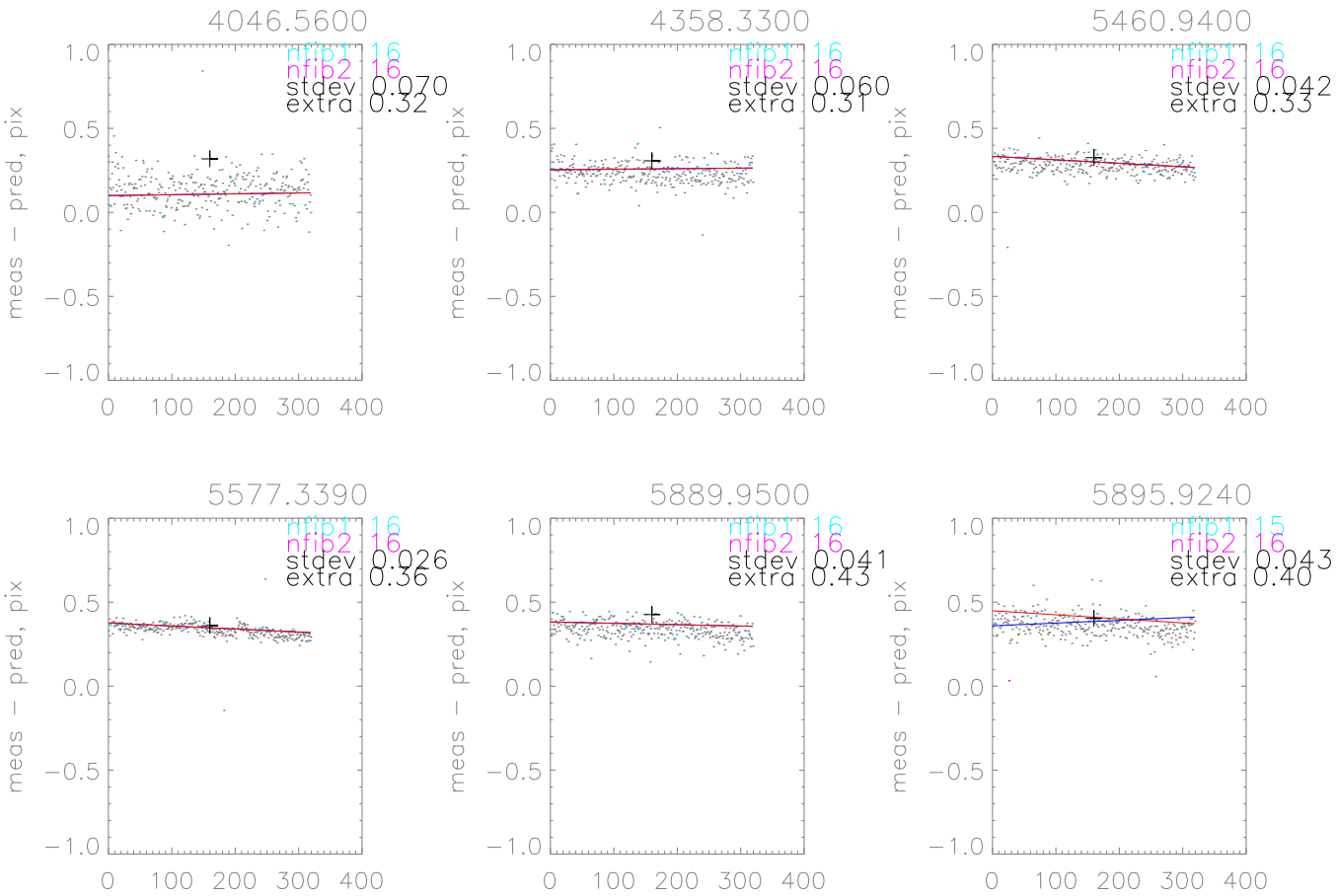

4358.3300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

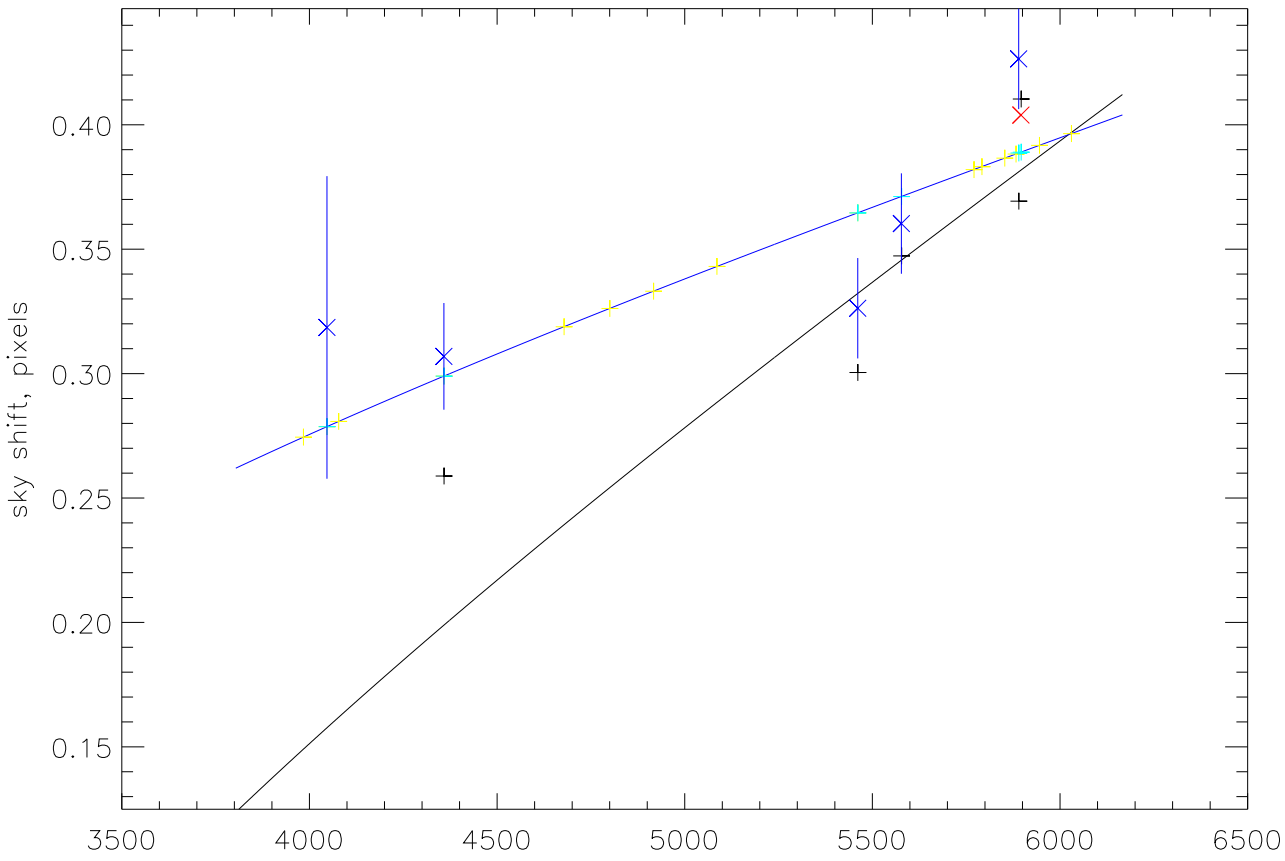

5460.9400
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400


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

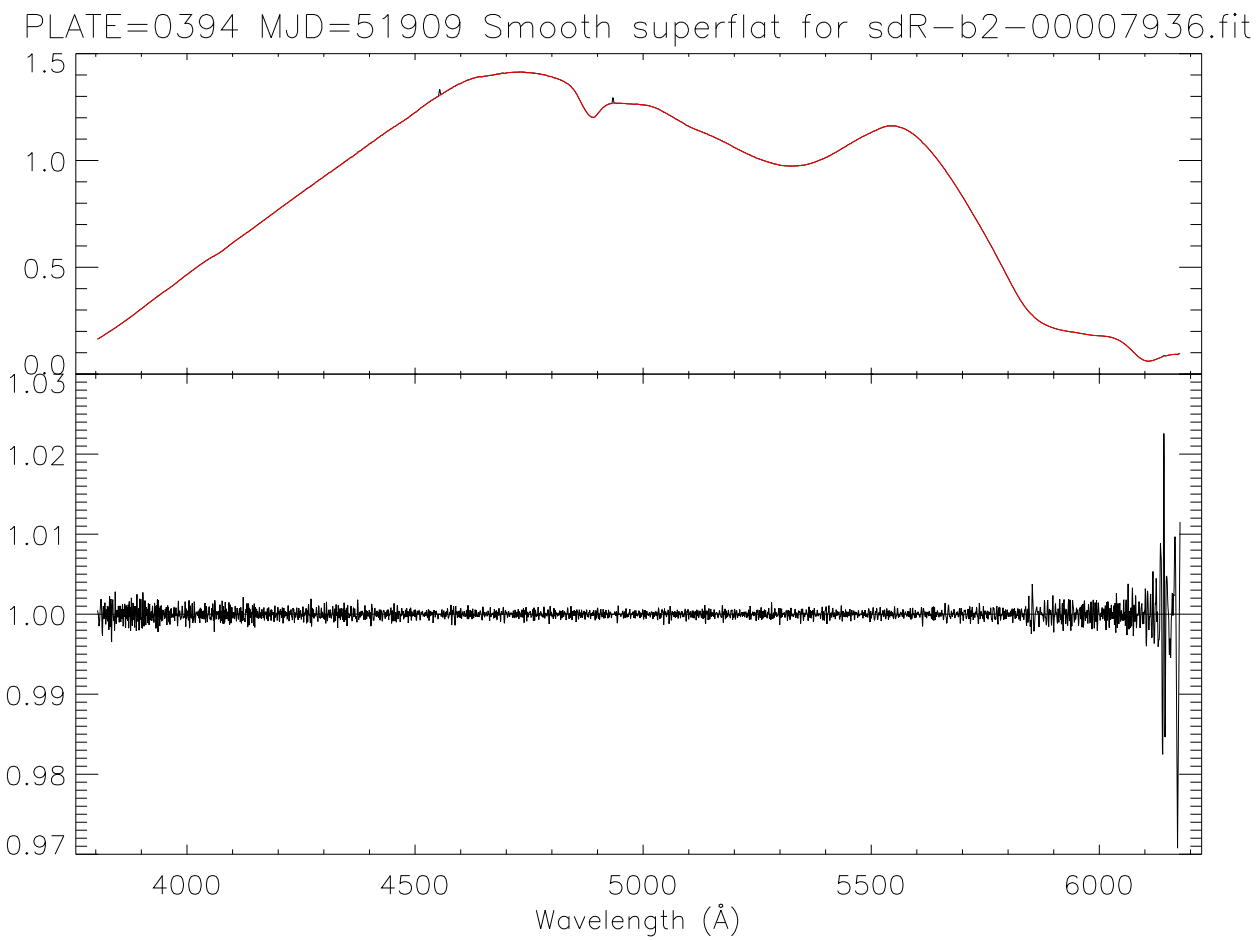

5889.9500
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

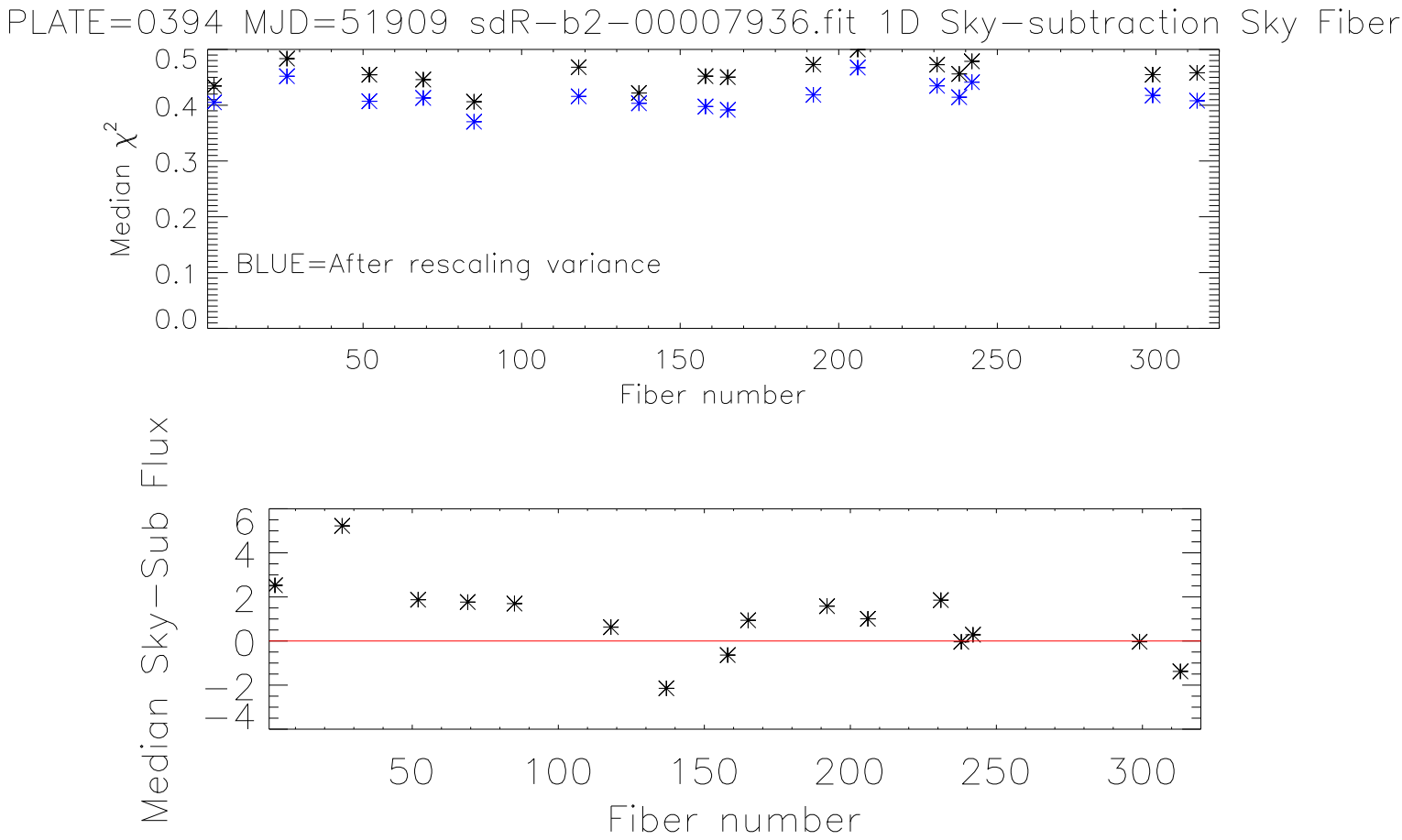

5895.9240
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

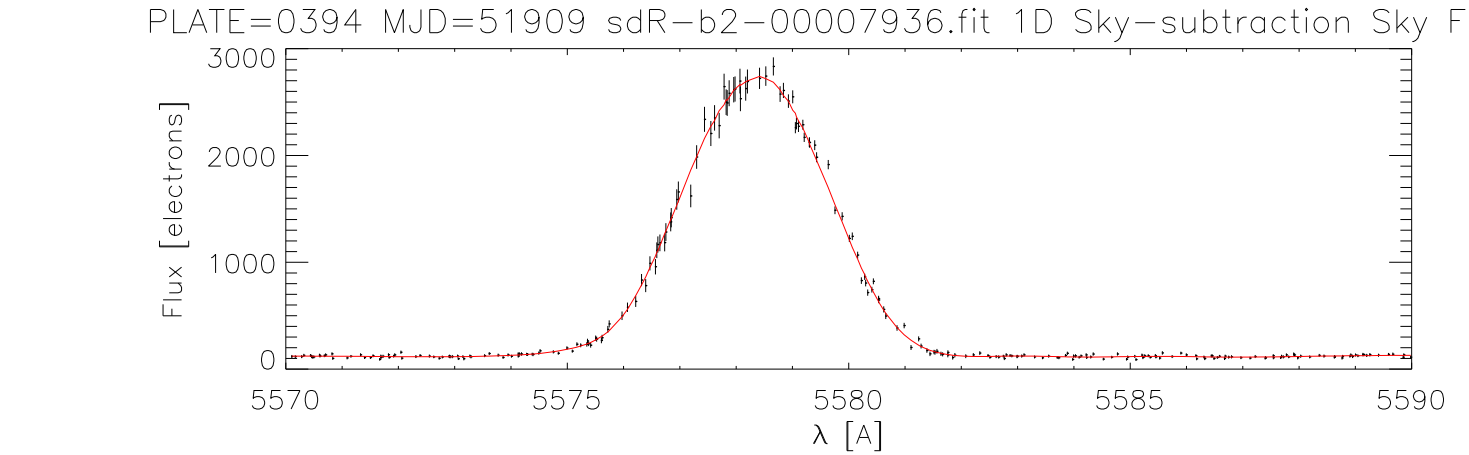

4046.5600
nfib1 16
nfib2 16
stdev 0.070
extra 0.32
4358.3300
nfib1 16
nfib2 16
stdev 0.060
extra 0.31
5460.9400
nfib1 16
nfib2 16
stdev 0.042
extra 0.33
5577.3390
nfib1 16
nfib2 16
stdev 0.026
extra 0.36
5889.9500
nfib1 16
nfib2 16
stdev 0.041
extra 0.43
5895.9240
nfib1 15
nfib2 16
stdev 0.043
extra 0.40
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

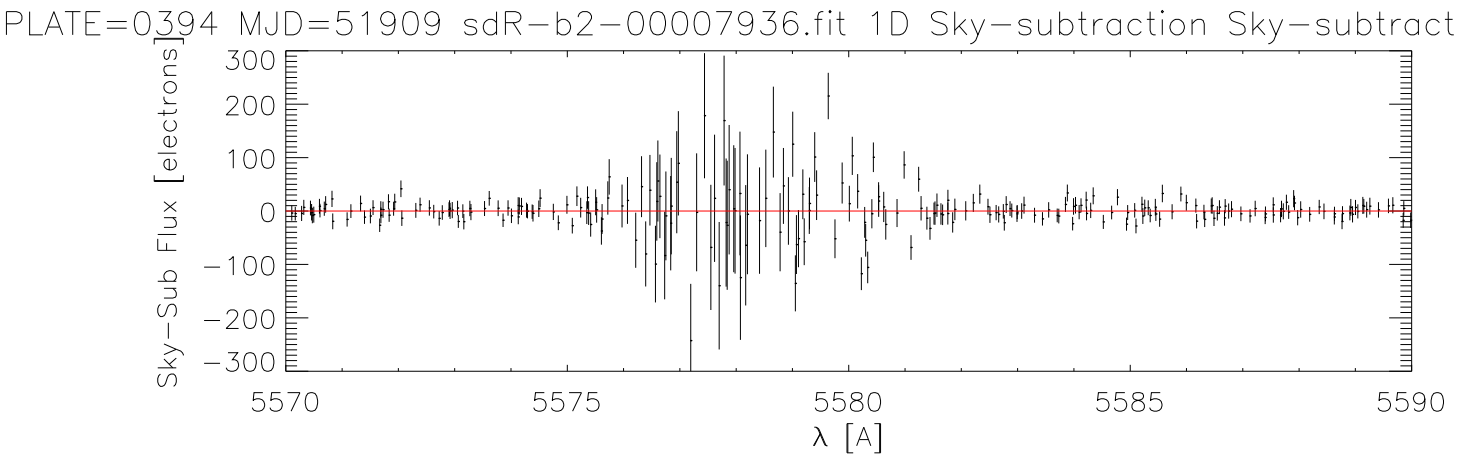

sky shift, pixels
0.40
0.35
0.30
0.25
0.20
0.15
3500
4000
4500
5000
5500
6000
6500

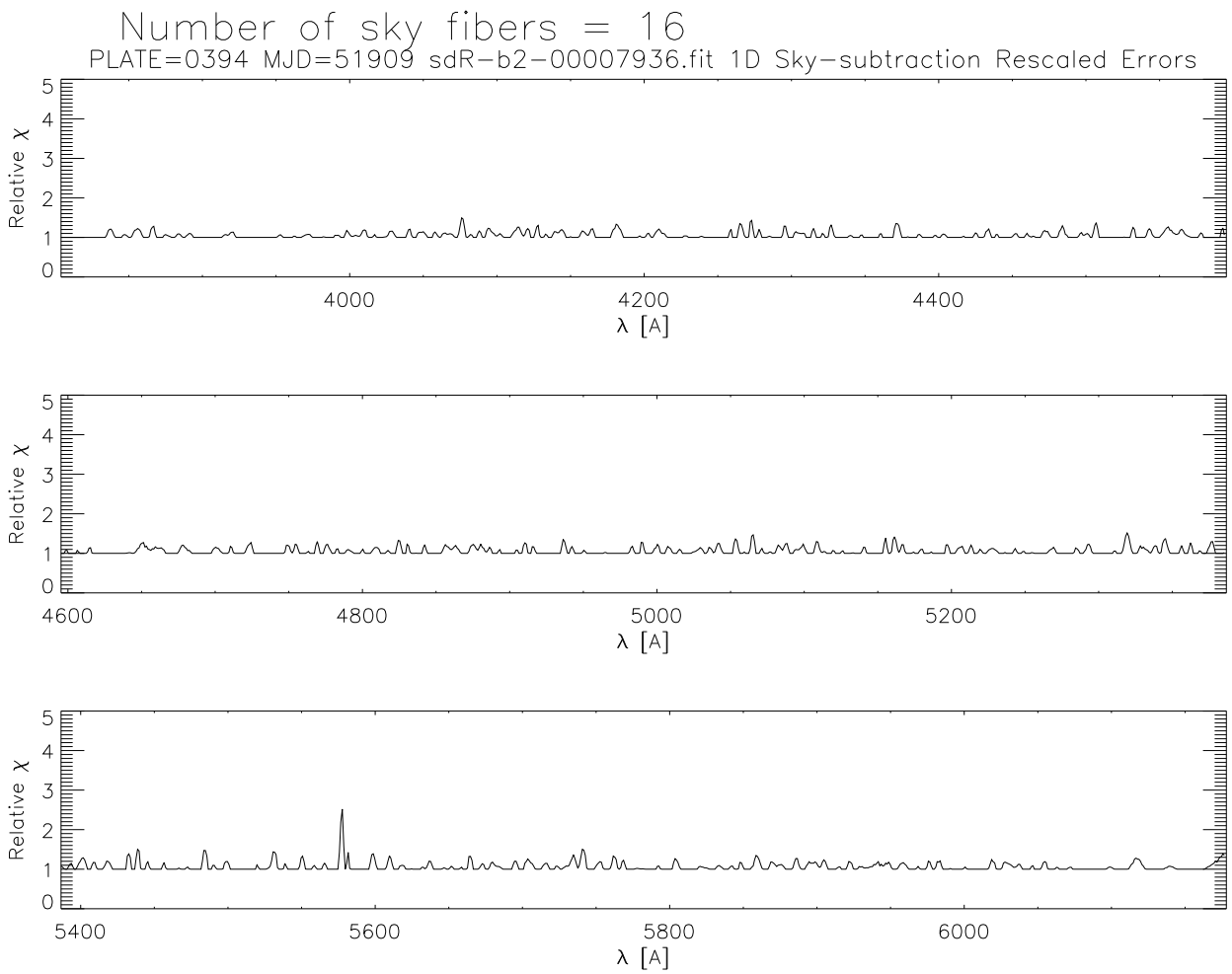
es= 0.0000

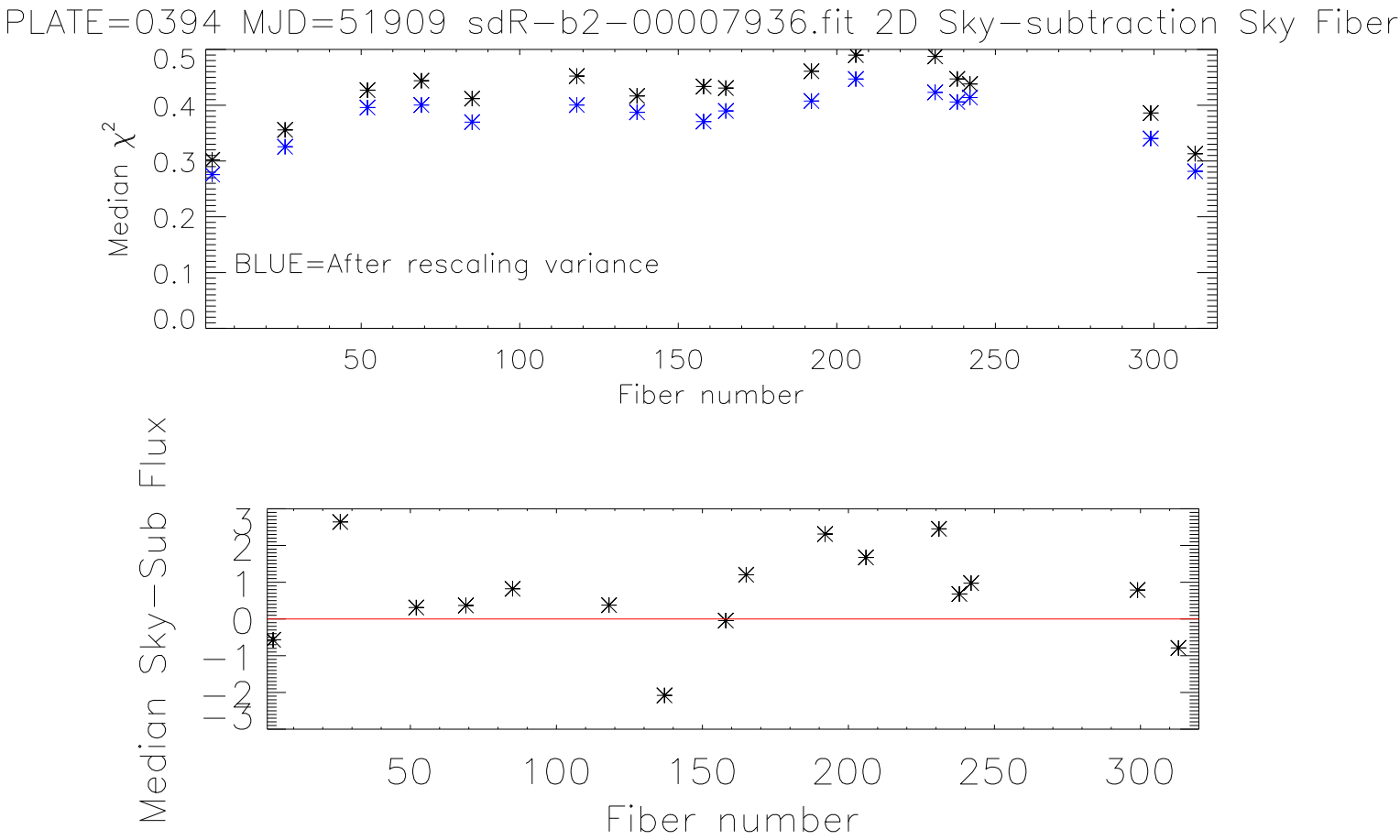

PLATE=0394 MJD=51909 Smooth superflat for sdR-b2-00007936.fit
1.5
1.0
0.5
0.0
1.03
1.02
1.01
1.00
0.99
0.98
0.97
4000
4500
5000
5500
6000
Wavelength (Å)

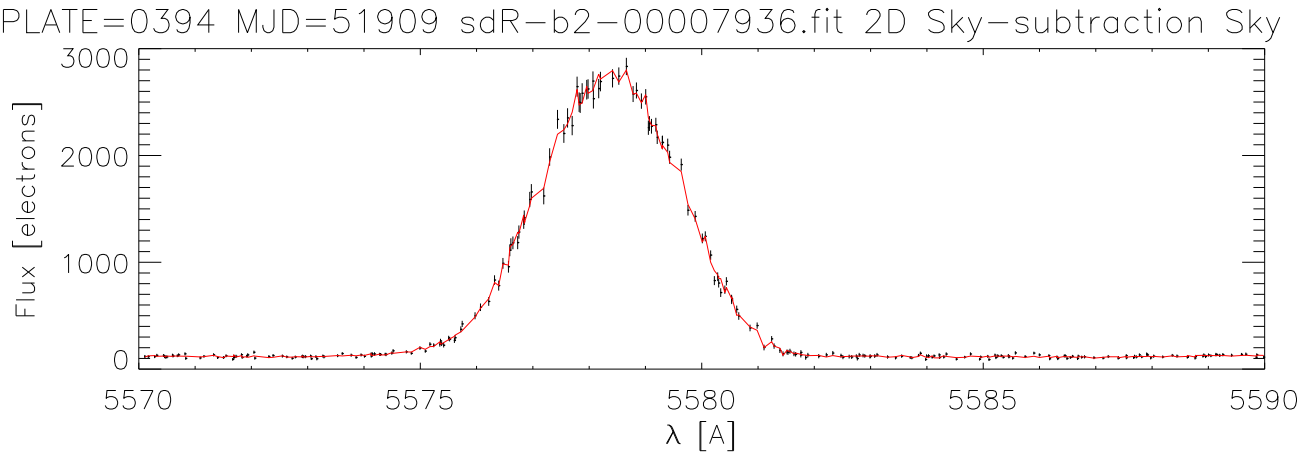

PLATE=0394 MJD=51909 sdR-b2-00007936.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

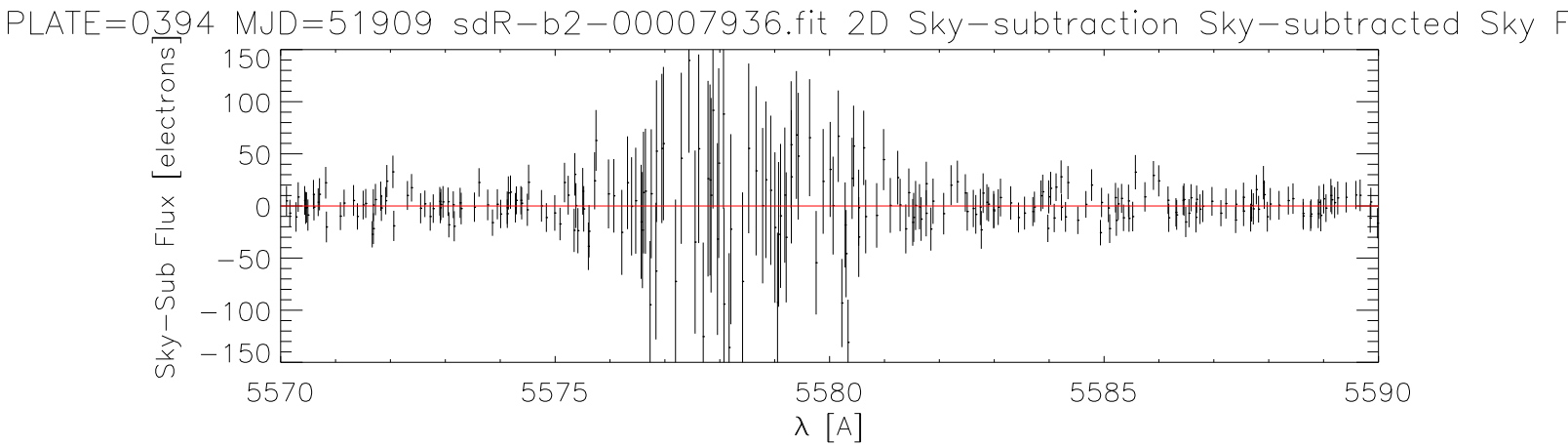

PLATE=0394 MJD=51909 sdR-b2-00007936.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

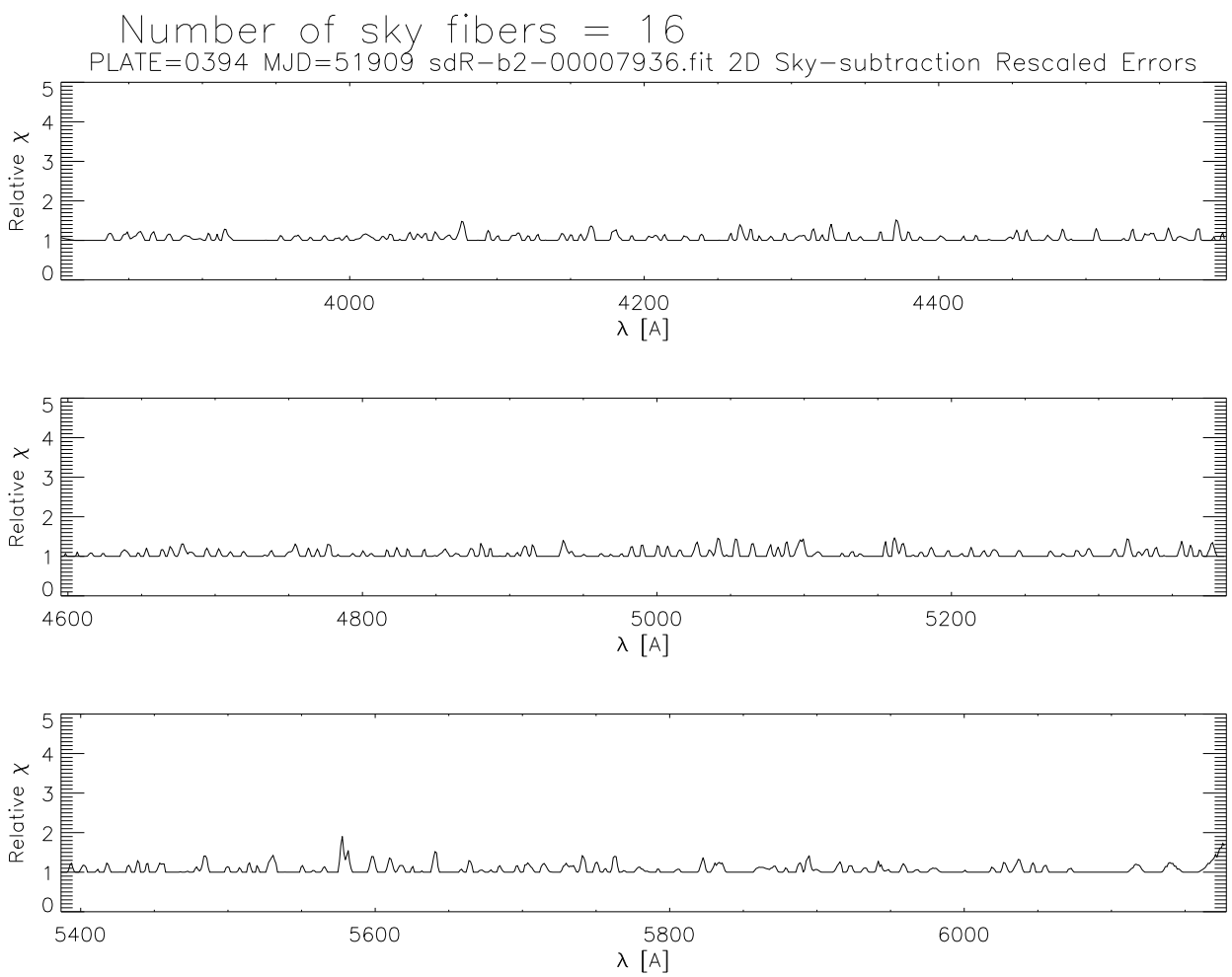

PLATE=0394 MJD=51909 sdR-b2-00007936.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

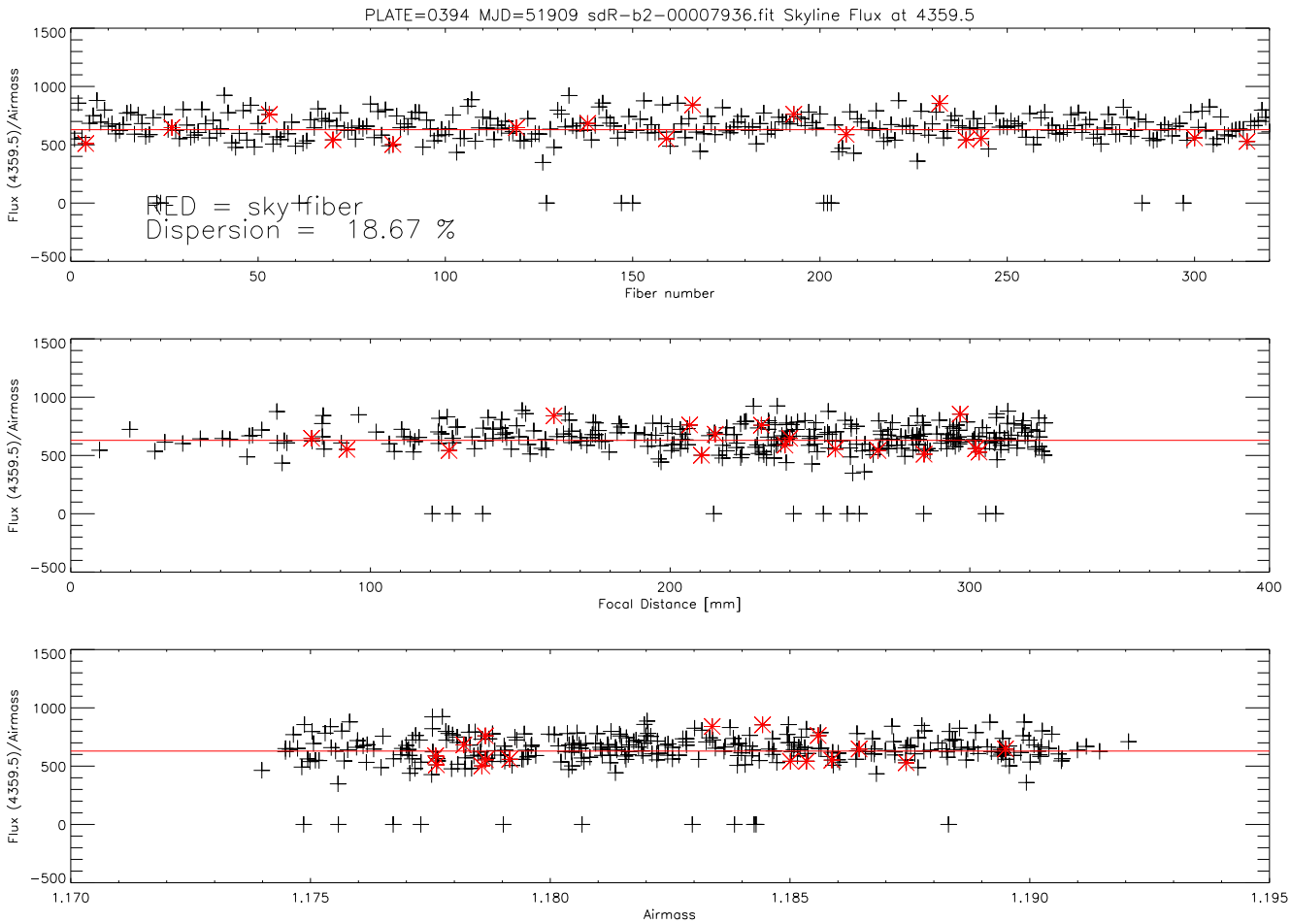

Number of sky fibers = 16
PLATE=0394 MJD=51909 sdR-b2-00007936.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

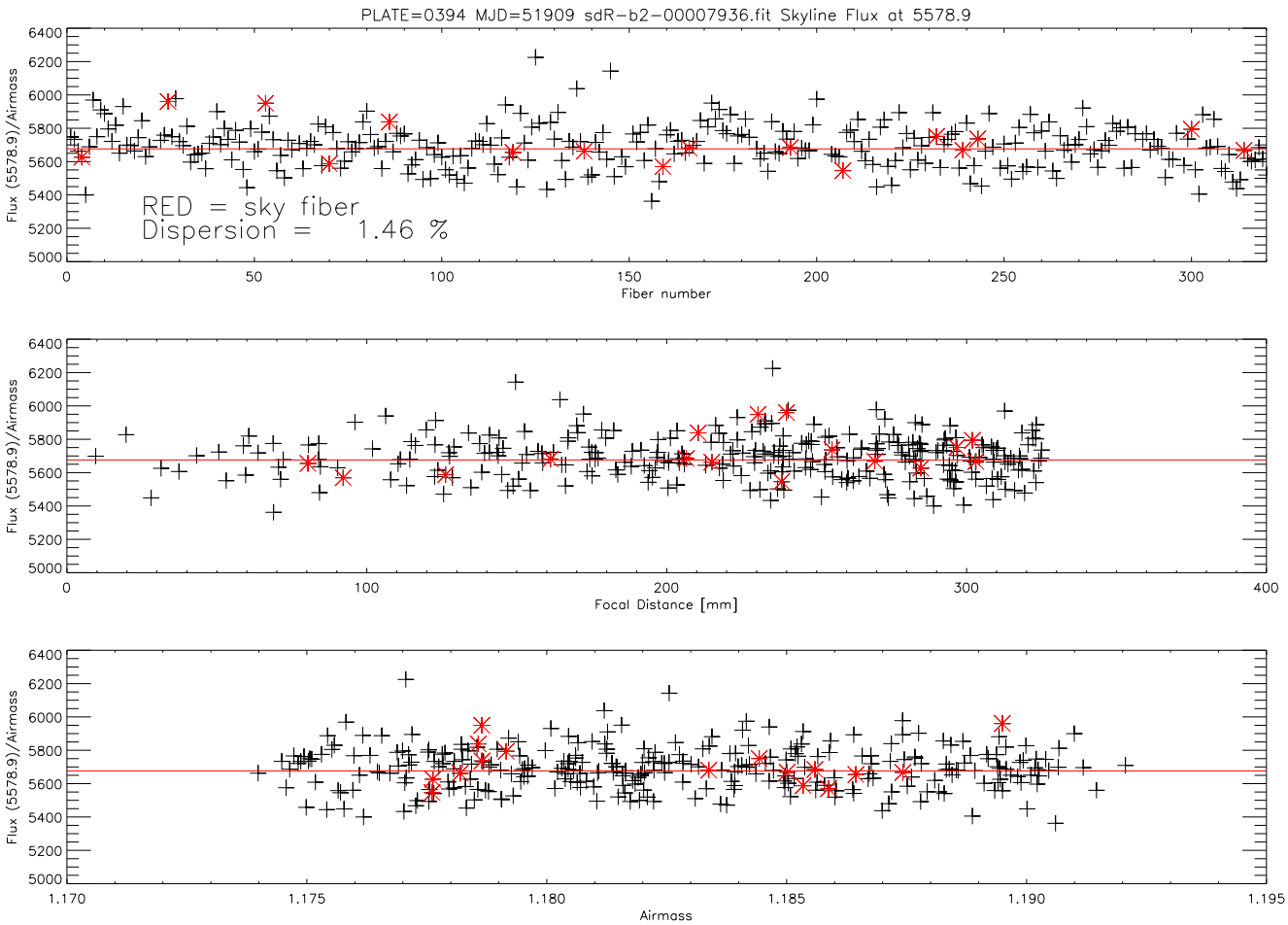

PLATE=0394 MJD=51909 sdR-b2-00007936.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-3
-2
-1
0
1
2
3
50
100
150
200
250
300
Fiber number

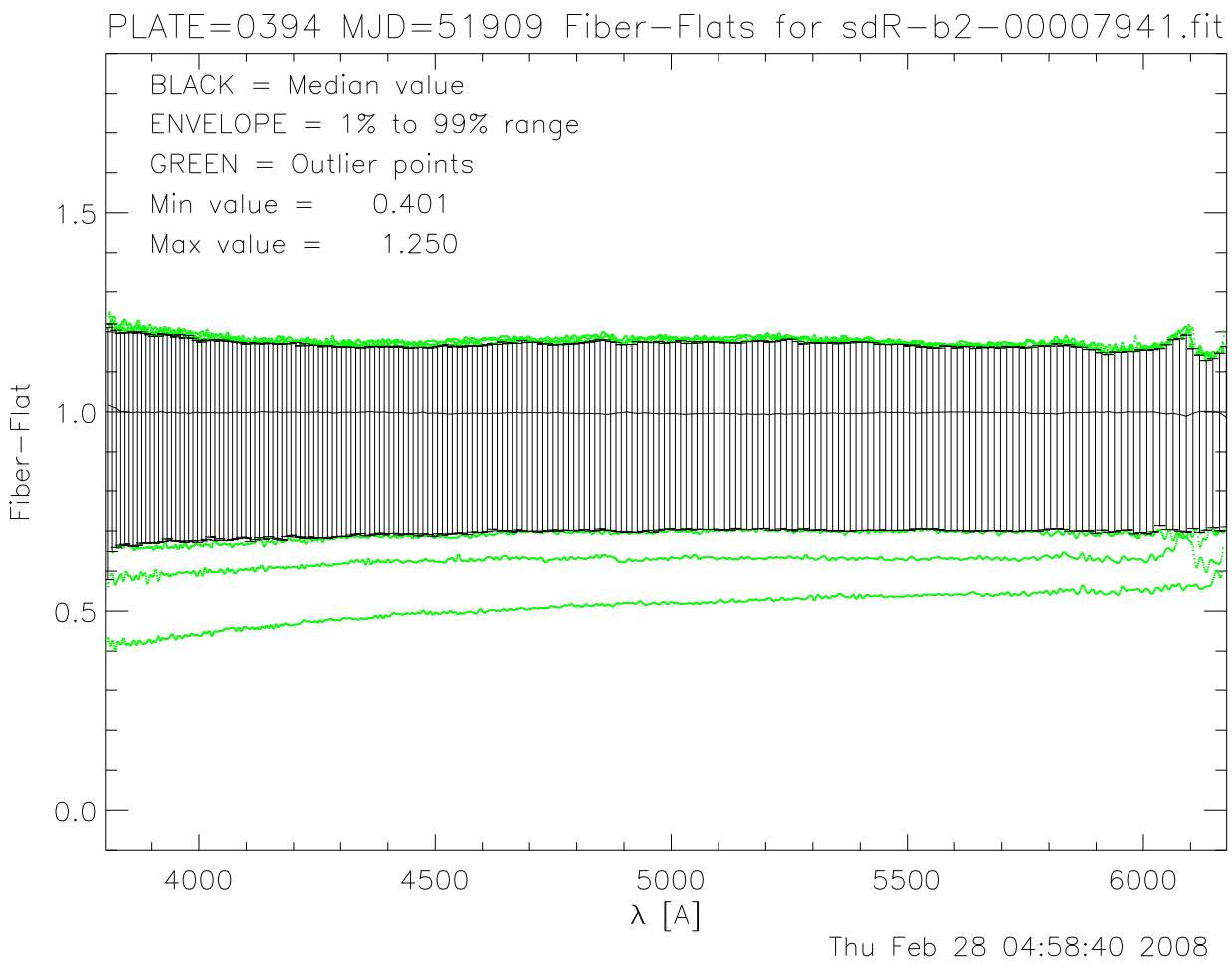

PLATE=0394 MJD=51909 sdR-b2-00007936.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

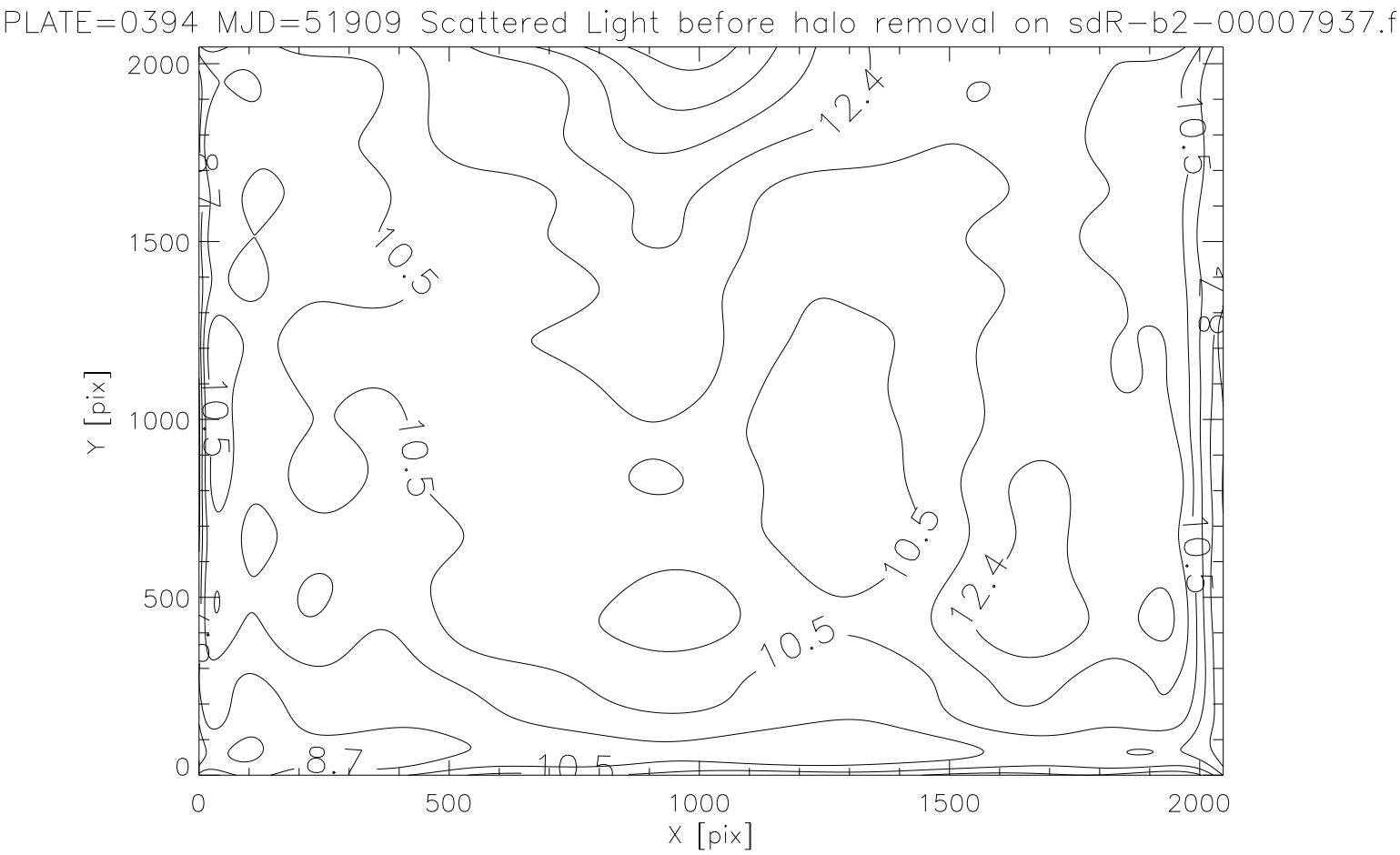

PLATE=0394 MJD=51909 sdR-b2-00007936.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
−50
−100
−150
5570
5575
5580
5585
5590
λ [A]

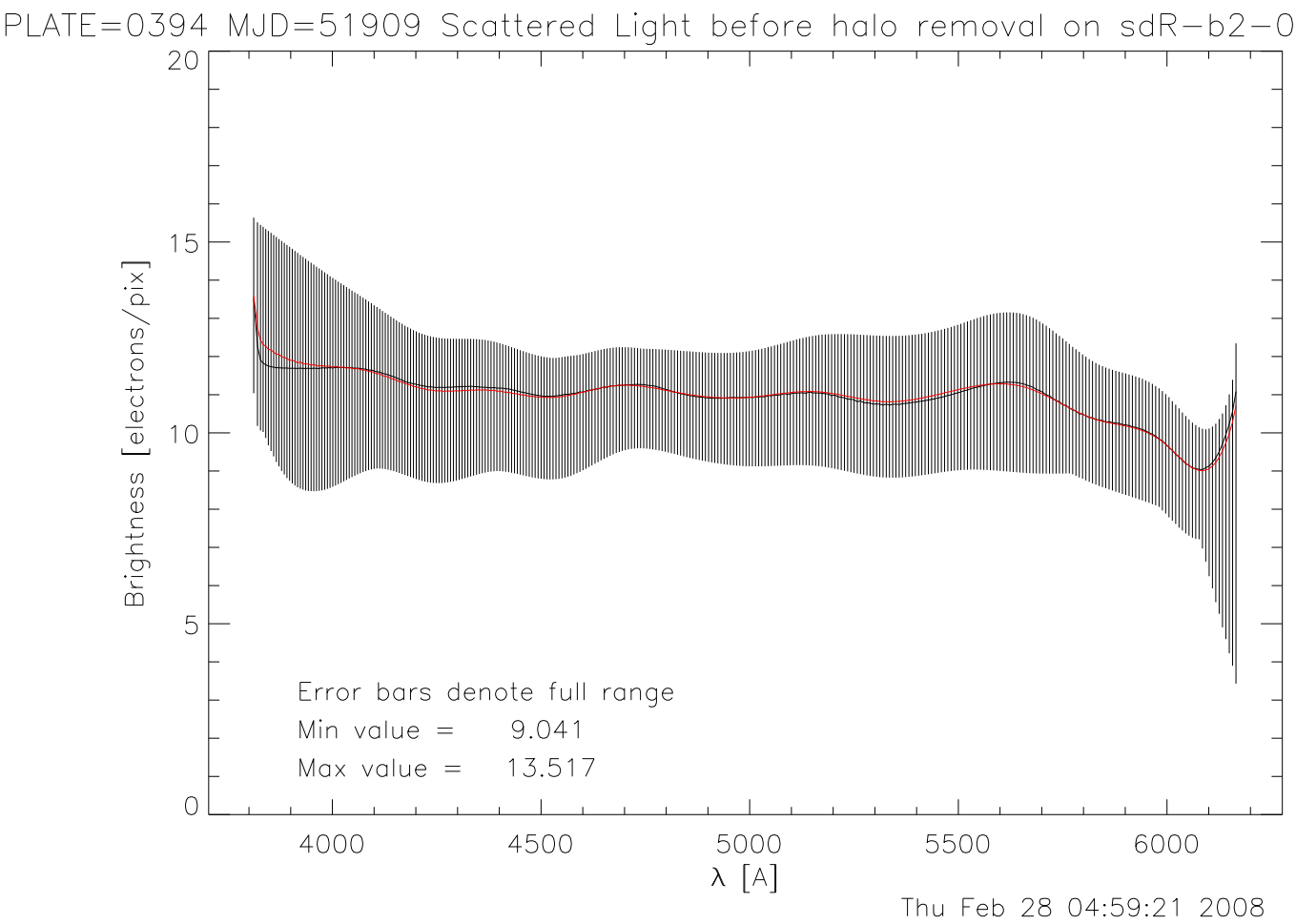

Number of sky fibers = 16
PLATE=0394 MJD=51909 sdR-b2-00007936.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

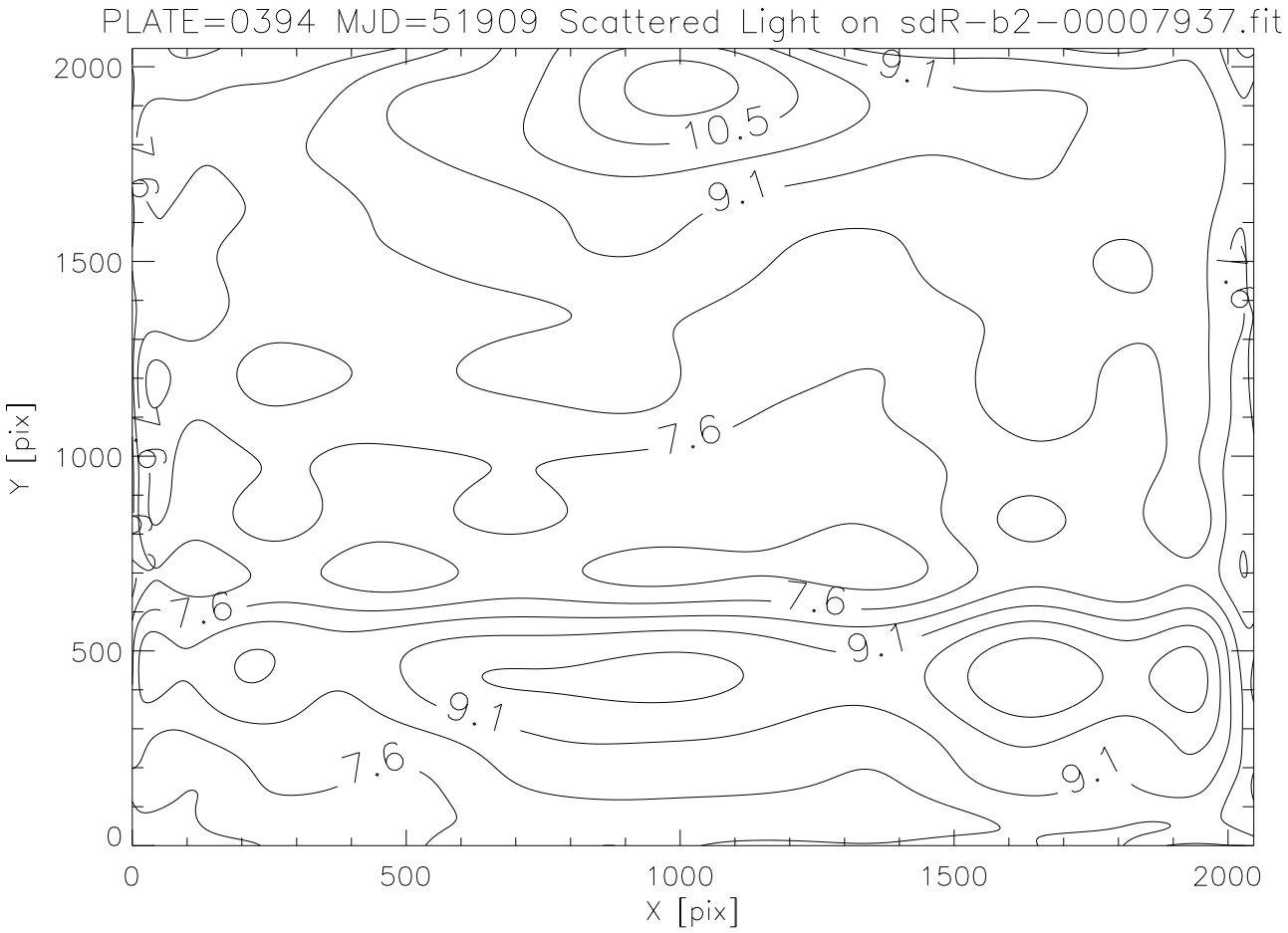

PLATE=0394 MJD=51909 sdR-b2-00007936.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 18.67 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

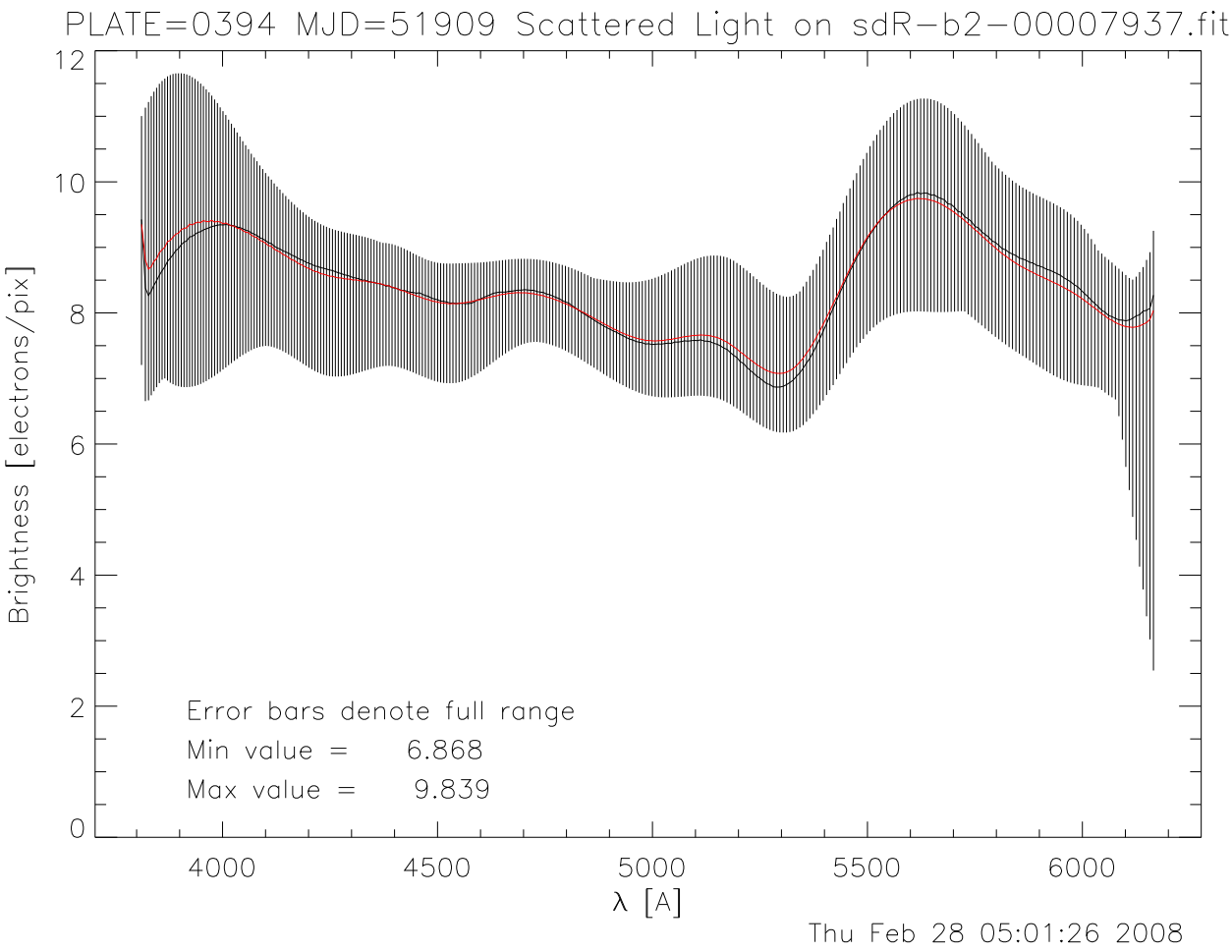

PLATE=0394 MJD=51909 sdR-b2-00007936.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.46 %
Fiber number
Focal Distance [mm]
Airmass

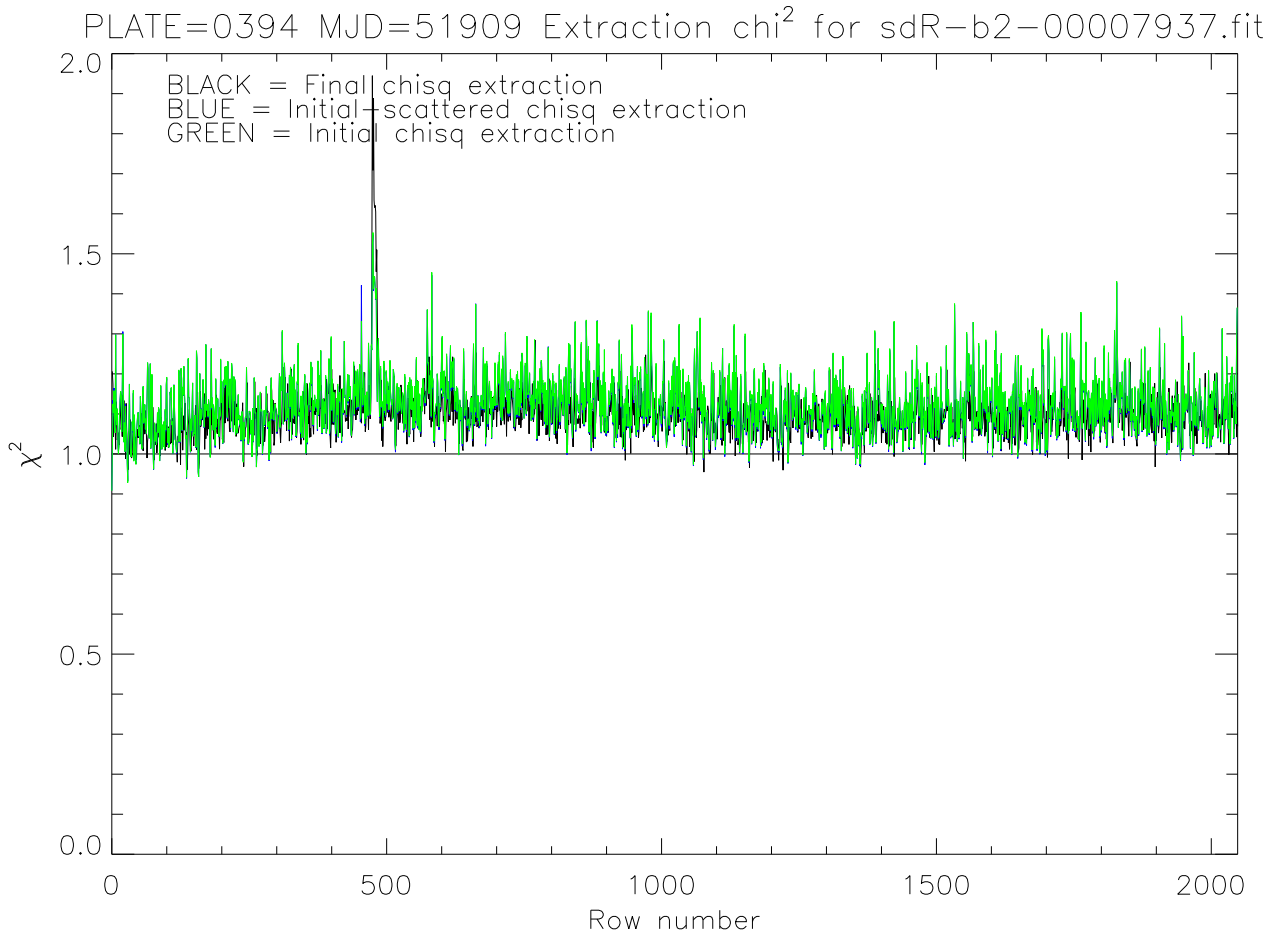

PLATE=0394 MJD=51909 Fiber-Flats for sdR-b2-00007941.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.401
Max value = 1.250
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Thu Feb 28 04:58:40 2008

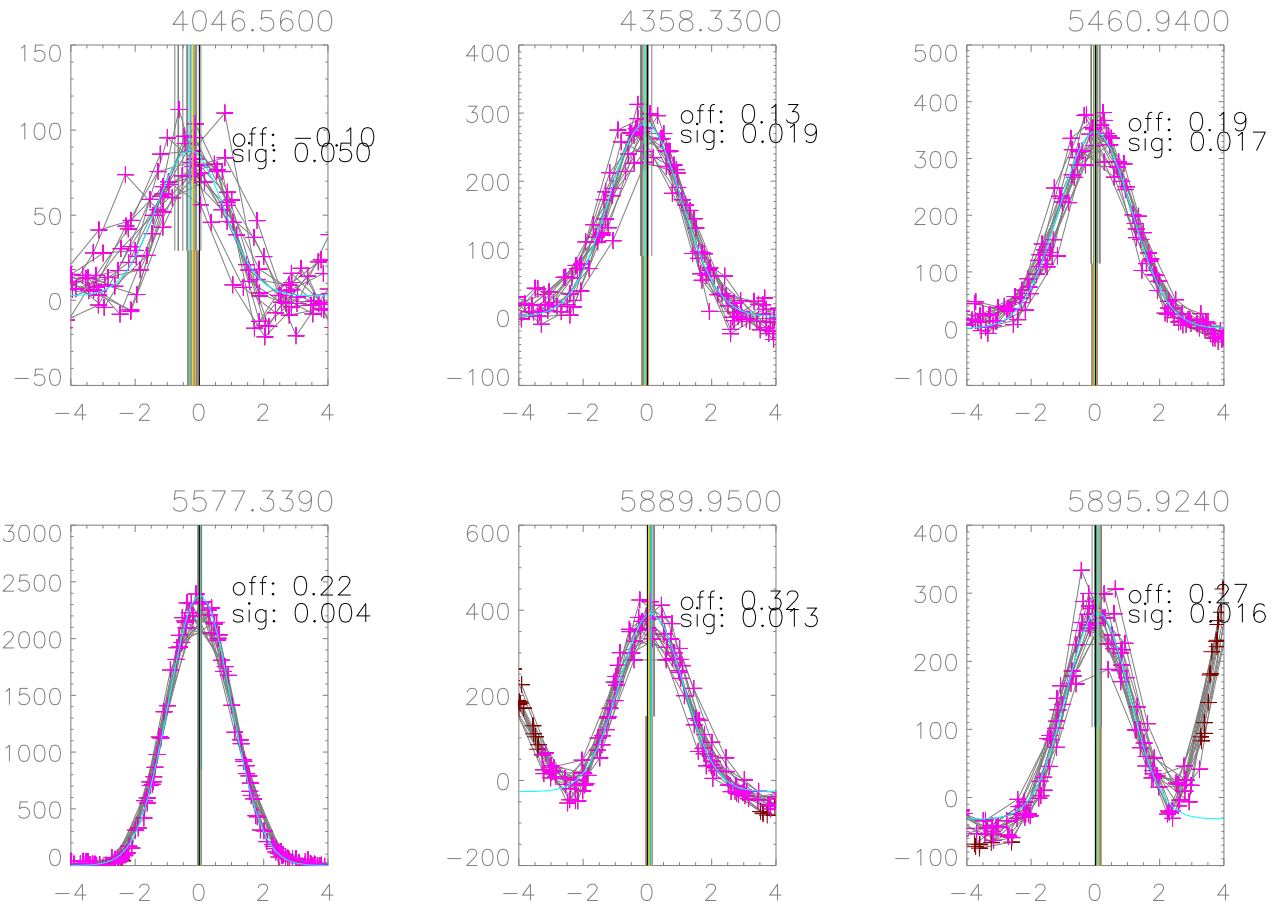

PLATE=0394 MJD=51909 Scattered Light before halo removal on sdR-b2-00007937.f
Y [pix]
X [pix]
0
500
1000
1500
2000
8.7
10.5
12.4

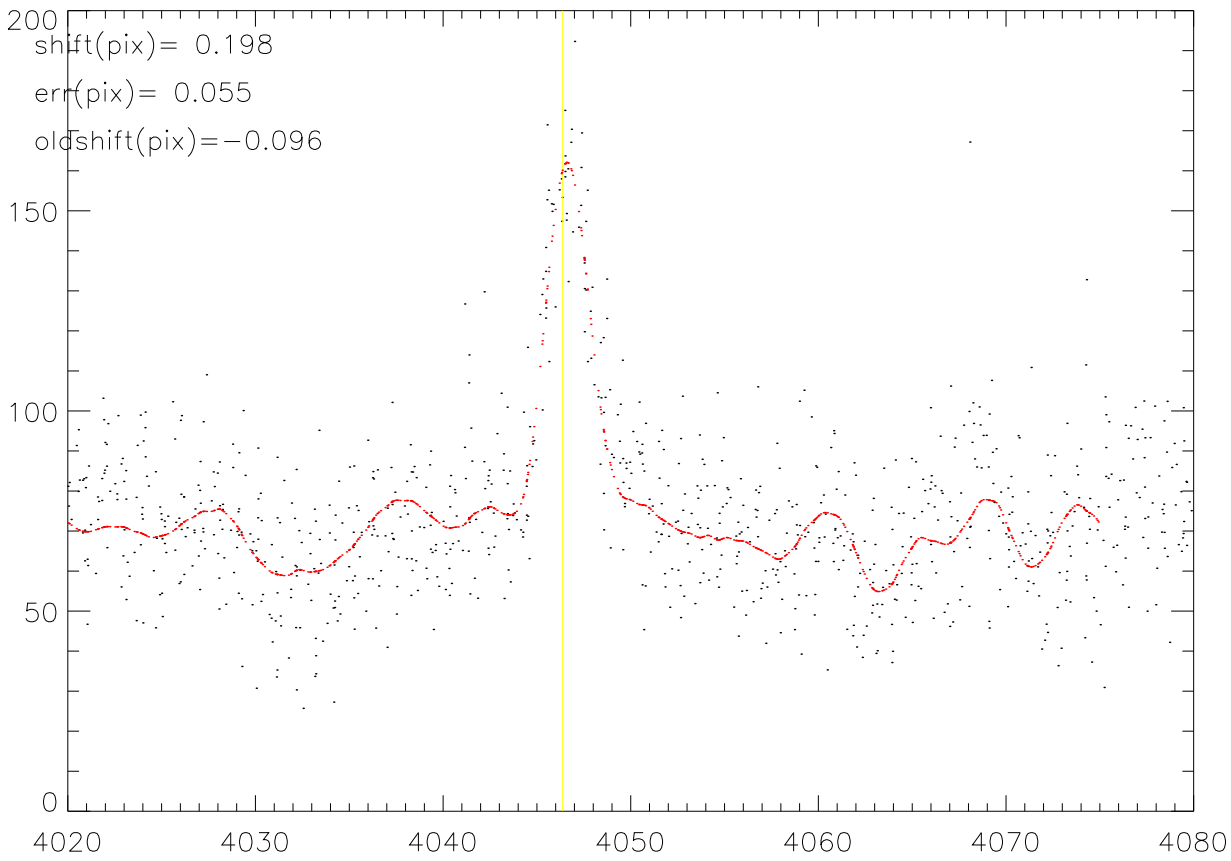

PLATE=0394 MJD=51909 Scattered Light before halo removal on sdR-b2-00007937.f
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 9.041
Max value = 13.517
4000
4500
5000
5500
6000
λ [A]
Thu Feb 28 04:59:21 2008

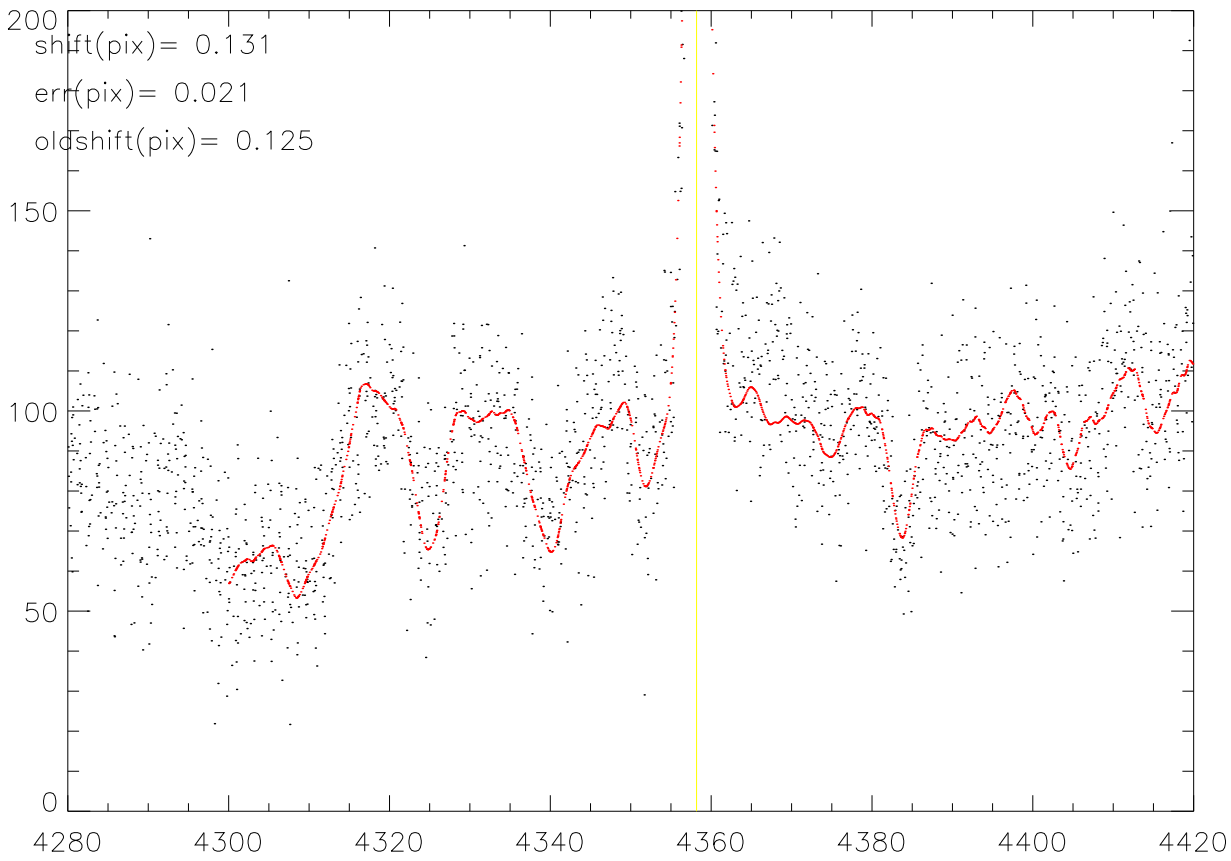

PLATE=0394 MJD=51909 Scattered Light on sdR-b2-00007937.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
10.5
9.1
7.6

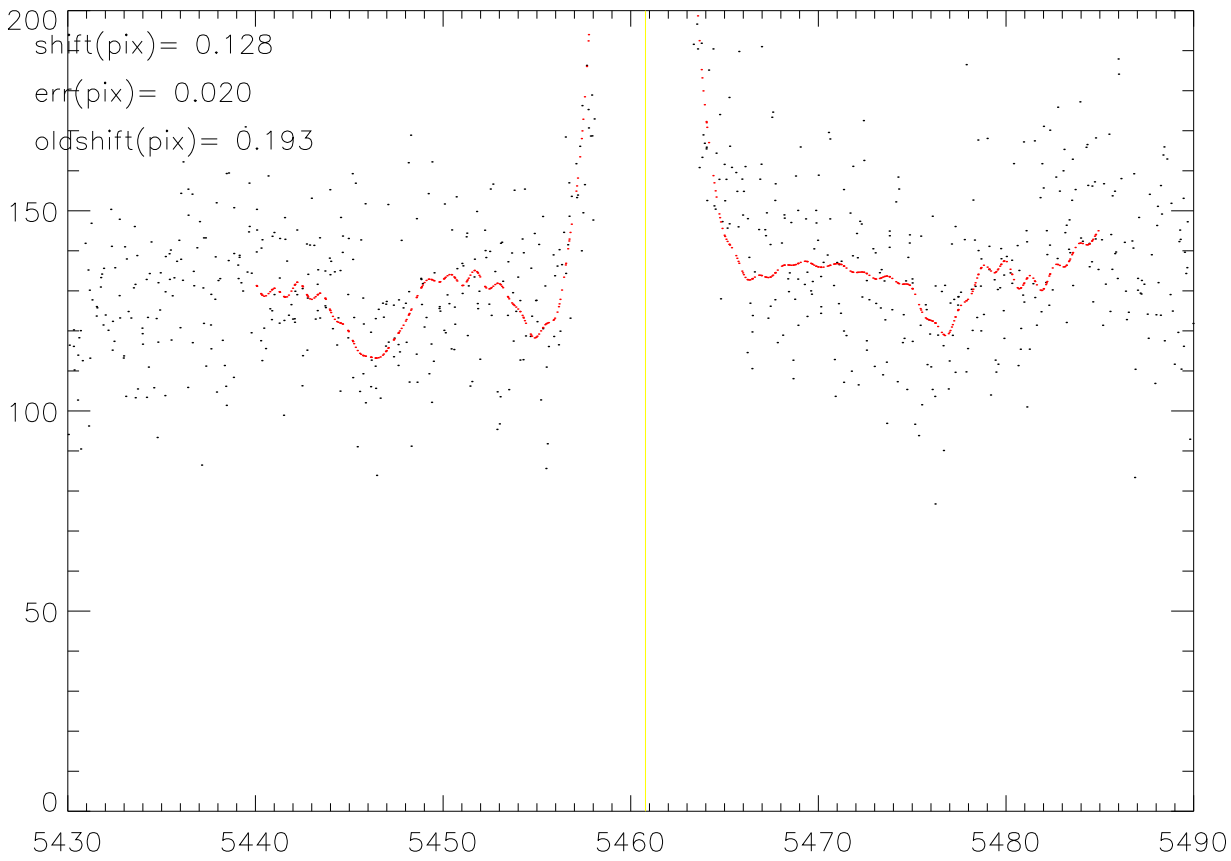

PLATE=0394 MJD=51909 Scattered Light on sdR-b2-00007937.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.868
Max value = 9.839
Thu Feb 28 05:01:26 2008

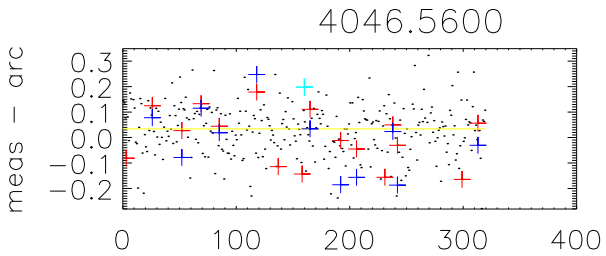

PLATE=0394 MJD=51909 Extraction chi^2 for sdR-b2-00007937.fit
BLACK = Final chisq extraction
BLUE = Initial+scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

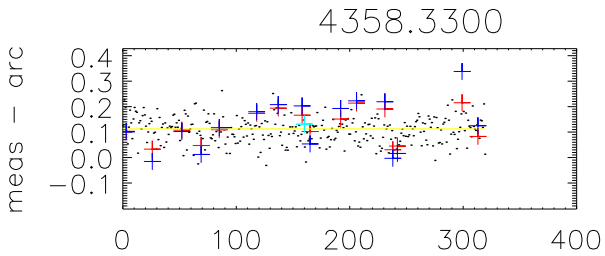

4046.5600
off: −0.10
sig: 0.050
4358.3300
off: 0.13
sig: 0.019
5460.9400
off: 0.19
sig: 0.017
5577.3390
off: 0.22
sig: 0.004
5889.9500
off: 0.32
sig: 0.013
5895.9240
off: 0.27
sig: 0.016

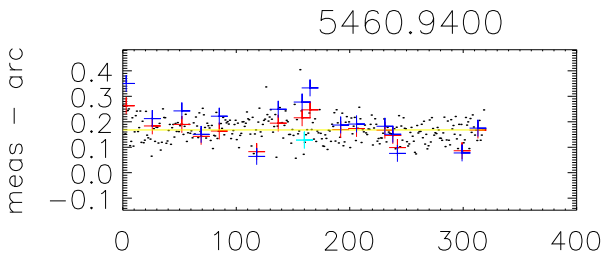

shift(pix)= 0.198
err(pix)= 0.055
oldshift(pix)=-0.096
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

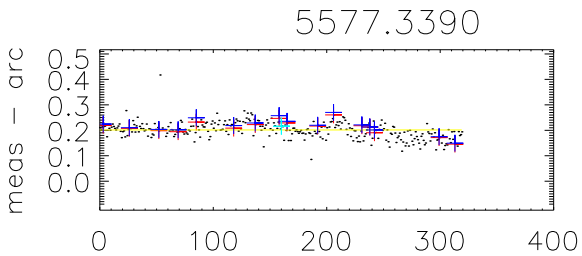

shift(pix)= 0.131
err(pix)= 0.021
oldshift(pix)= 0.125
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

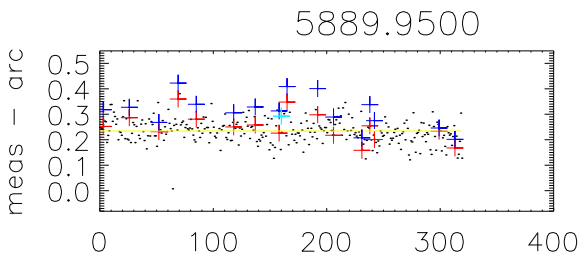

shift(pix)= 0.128
err(pix)= 0.020
oldshift(pix)= 0.193
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

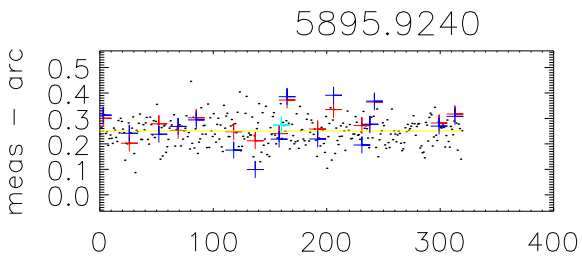

4046.5600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

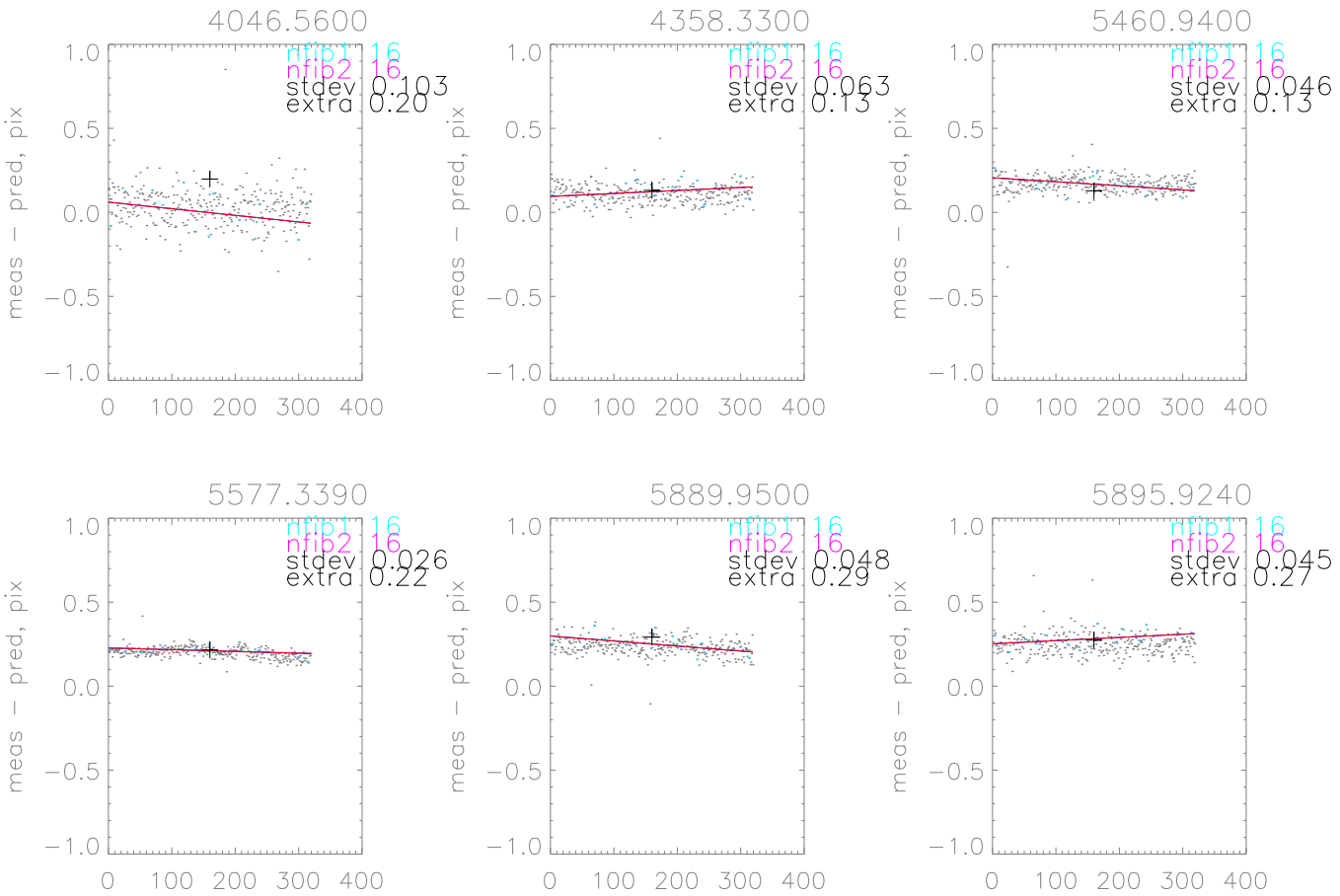

4358.3300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

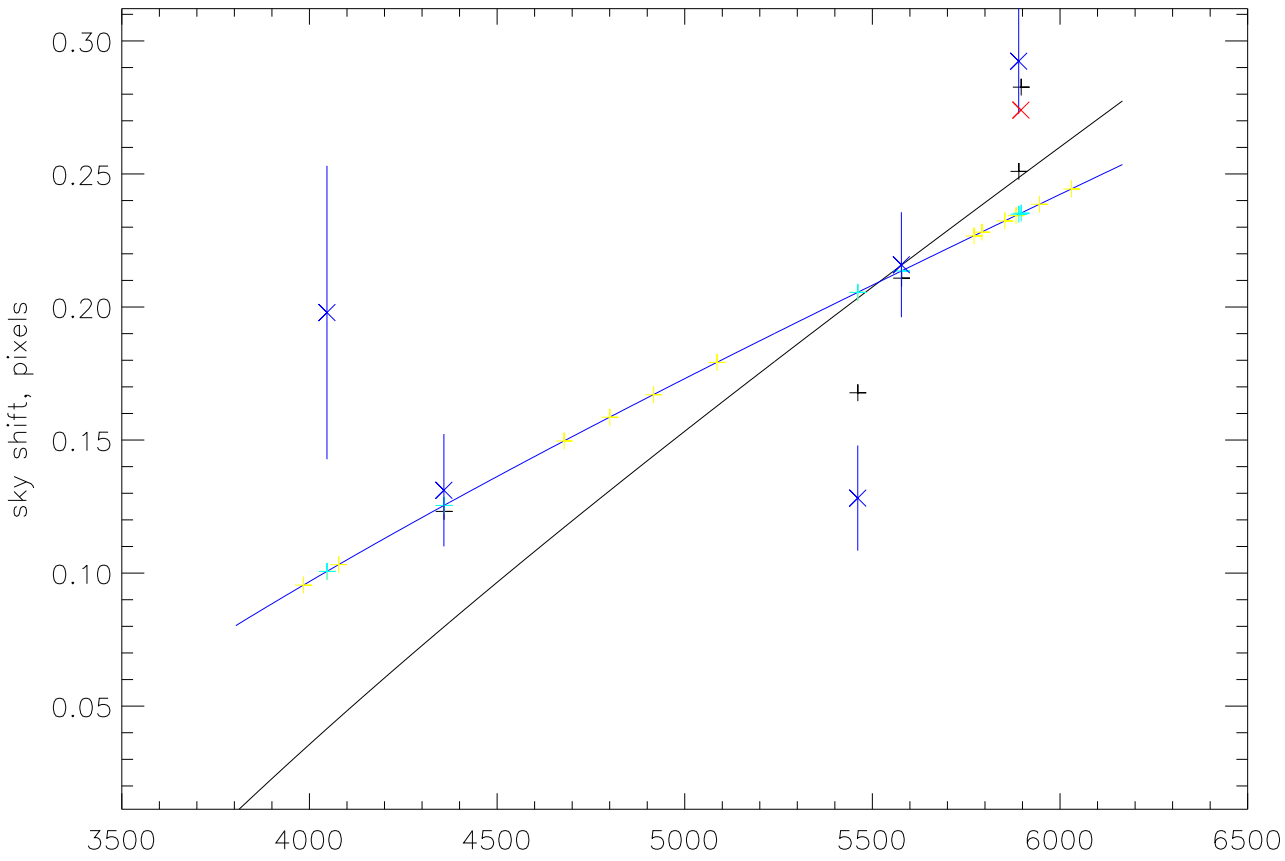

5460.9400
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

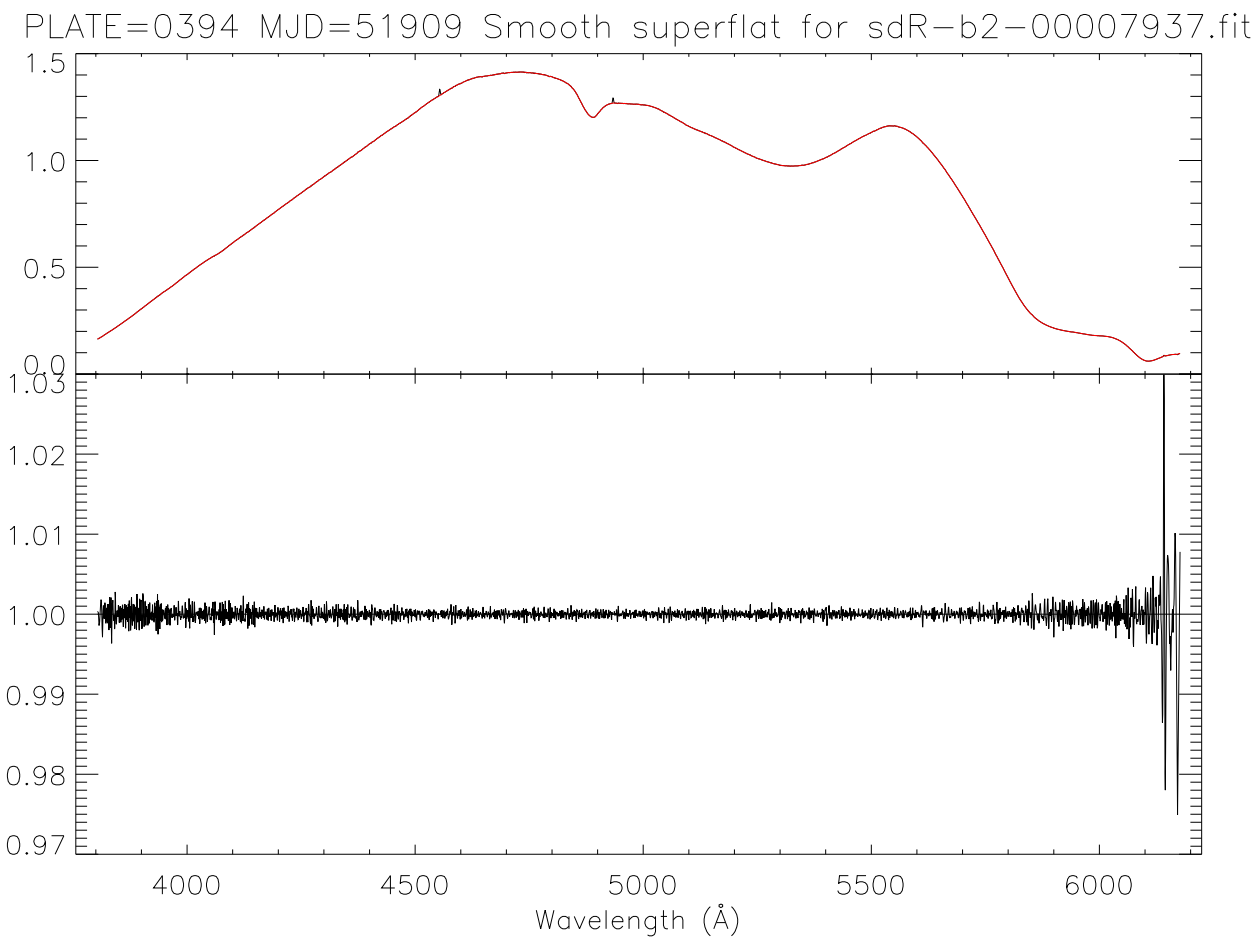

5889.9500
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

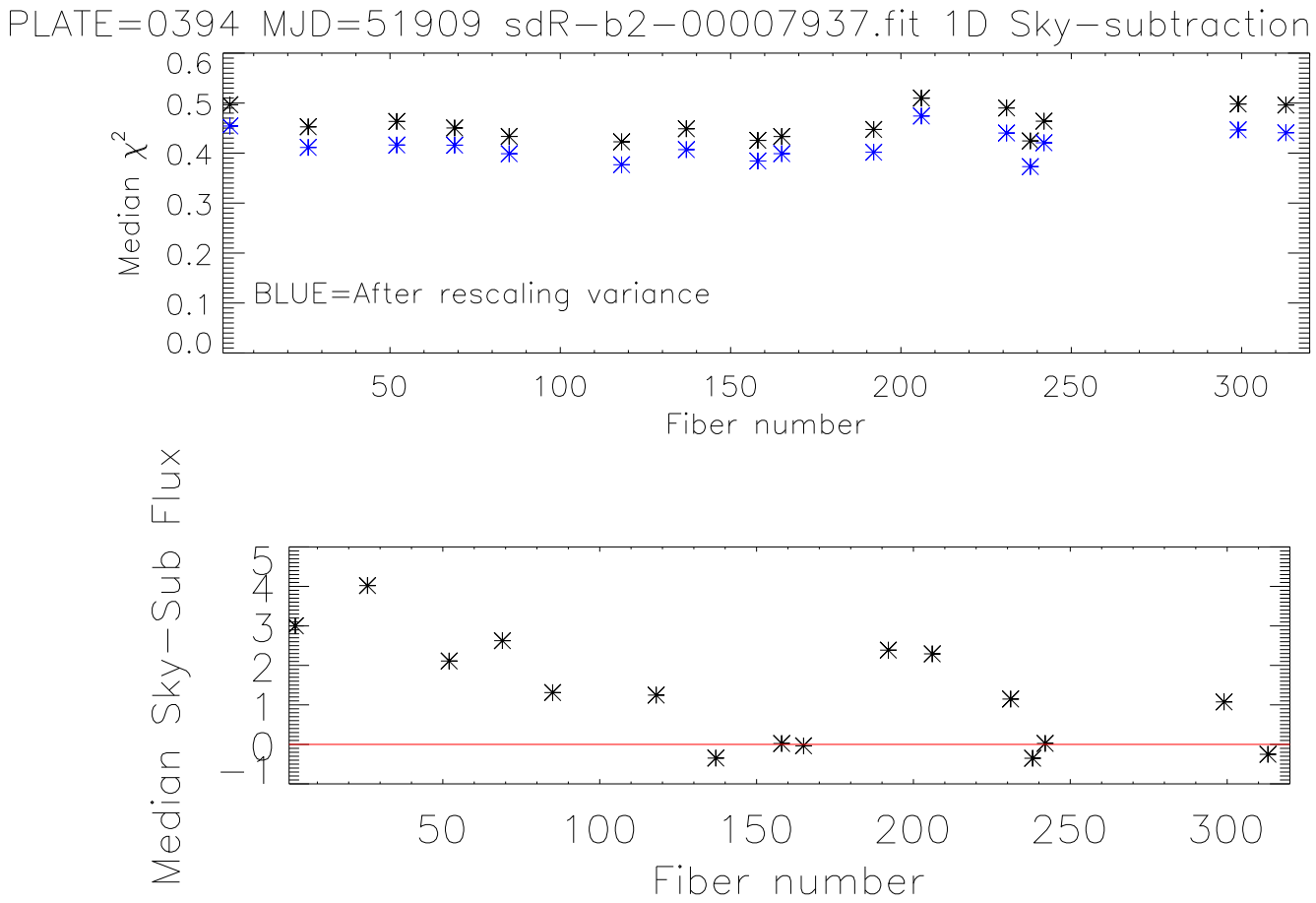

5895.9240
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

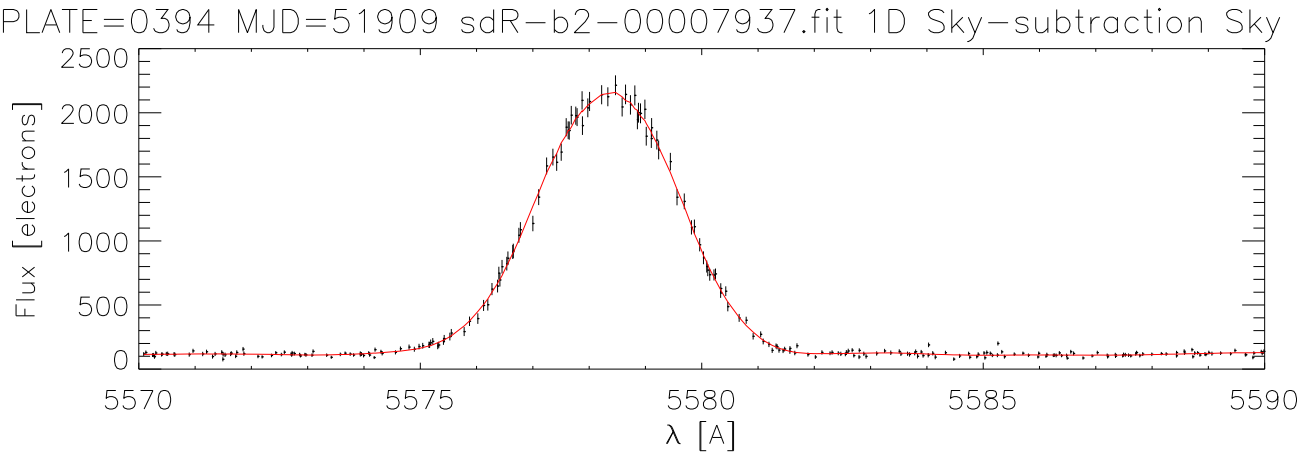

4046.5600
nfib1 16
nfib2 16
stdev 0.103
extra 0.20
4358.3300
nfib1 16
nfib2 16
stdev 0.063
extra 0.13
5460.9400
nfib1 16
nfib2 16
stdev 0.046
extra 0.13
5577.3390
nfib1 16
nfib2 16
stdev 0.026
extra 0.22
5889.9500
nfib1 16
nfib2 16
stdev 0.048
extra 0.29
5895.9240
nfib1 16
nfib2 16
stdev 0.045
extra 0.27
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

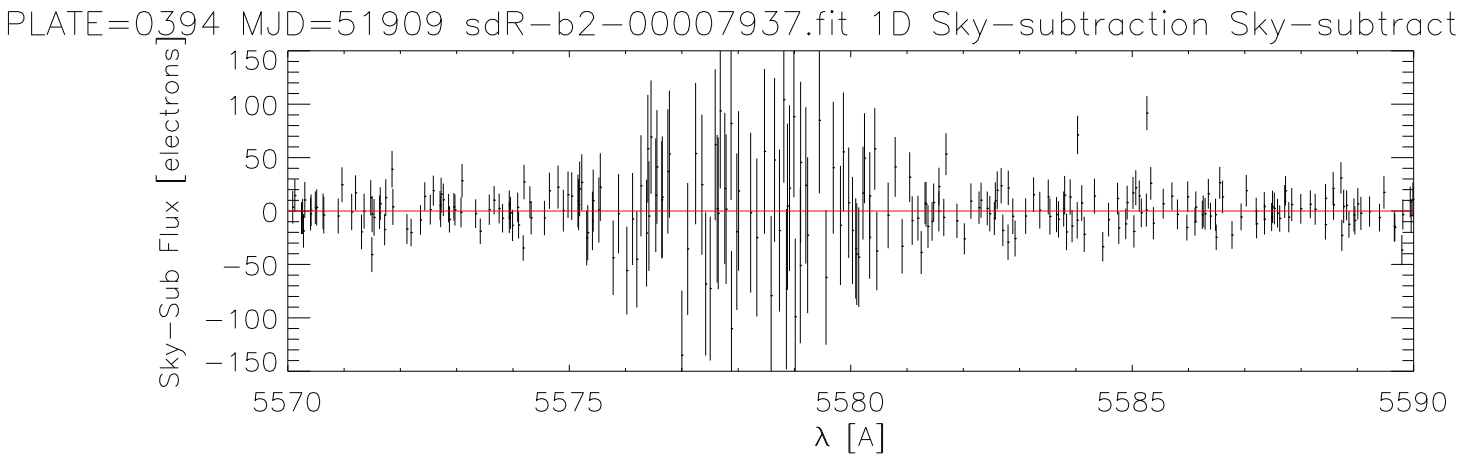

sky shift, pixels
0.30
0.25
0.20
0.15
0.10
0.05
3500
4000
4500
5000
5500
6000
6500

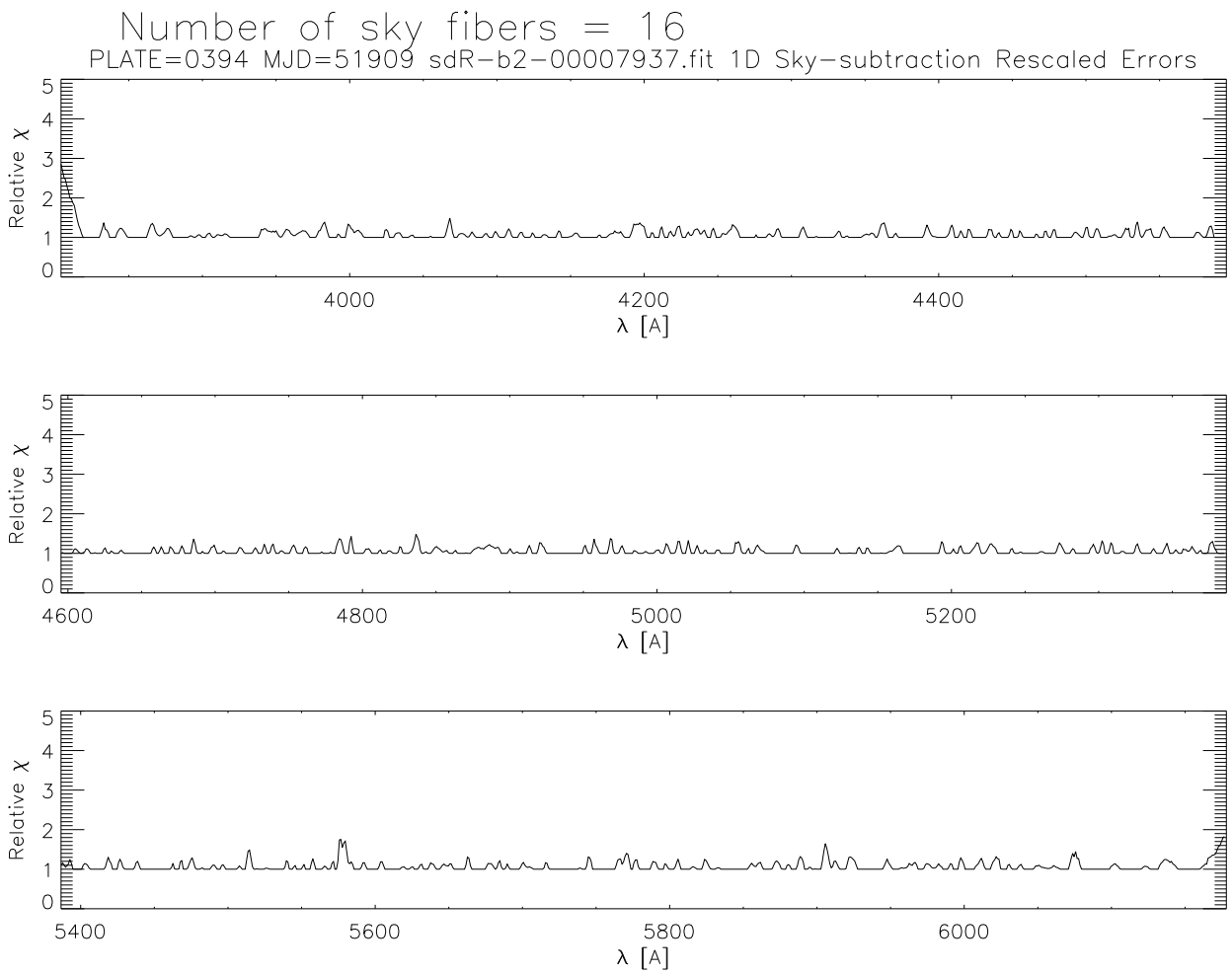
es= 0.0000

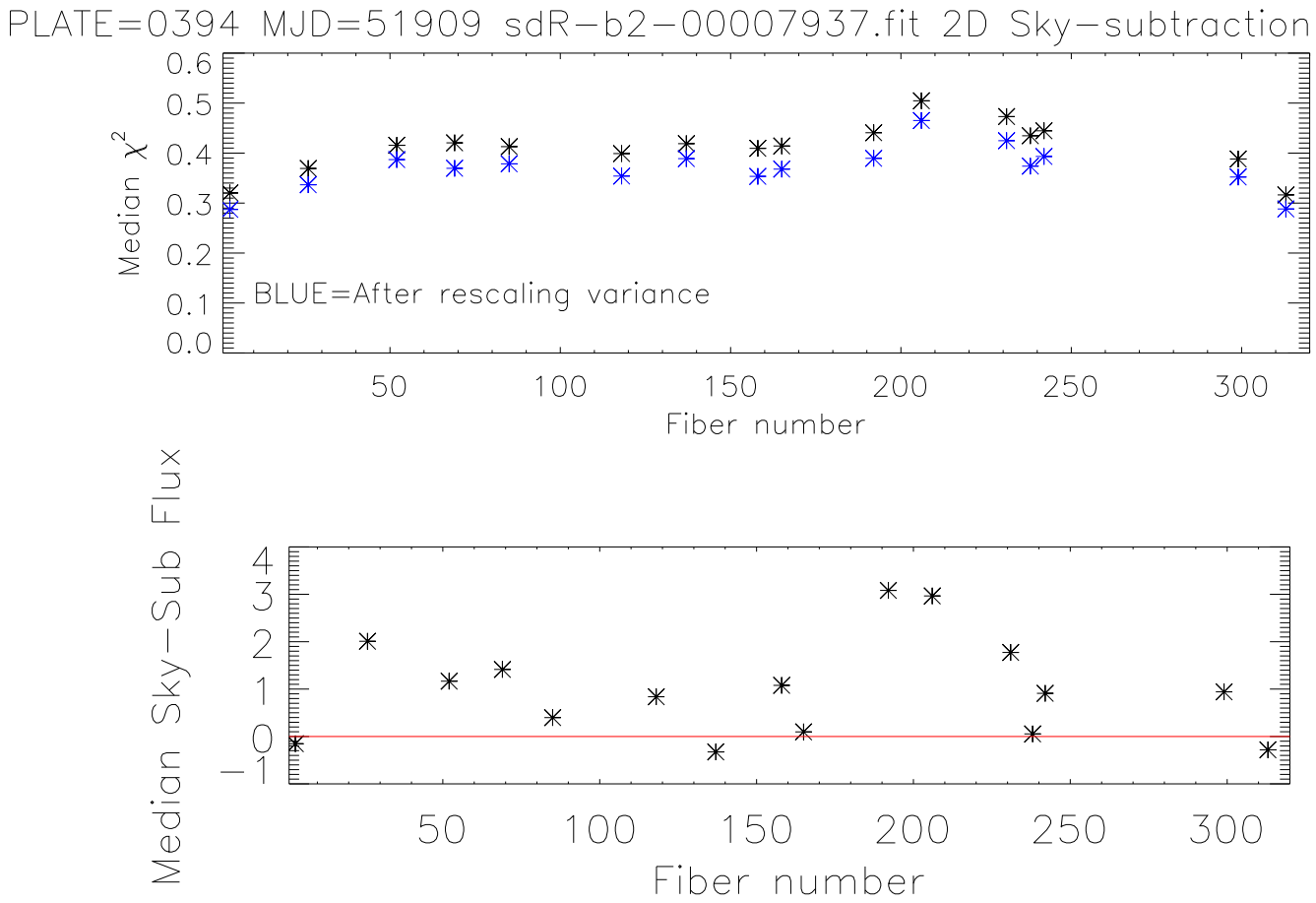

PLATE=0394 MJD=51909 Smooth superflat for sdR-b2-00007937.fit
1.5
1.0
0.5
0.0
1.03
1.02
1.01
1.00
0.99
0.98
0.97
4000
4500
5000
5500
6000
Wavelength (Å)

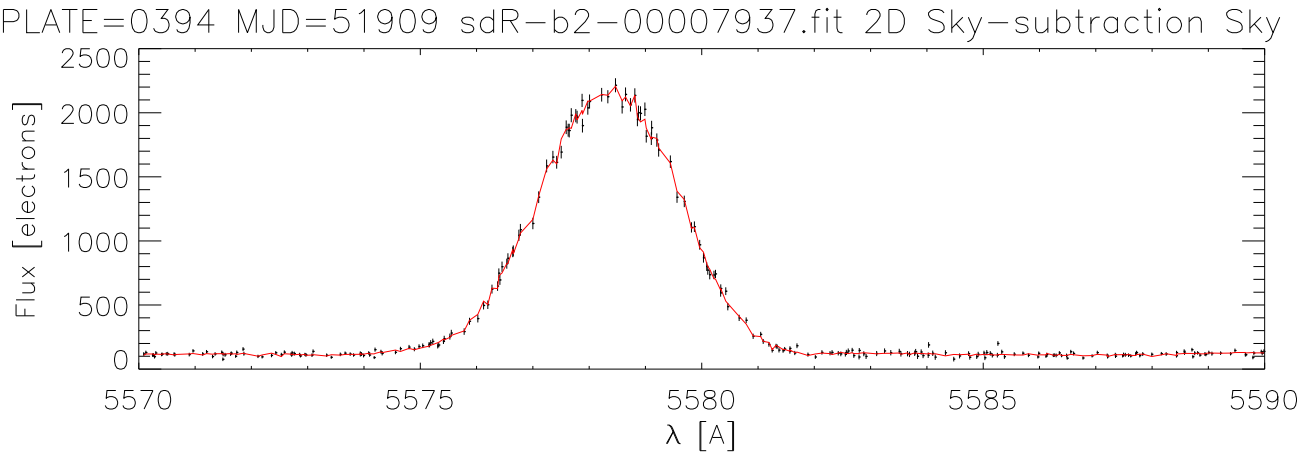

PLATE=0394 MJD=51909 sdR-b2-00007937.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

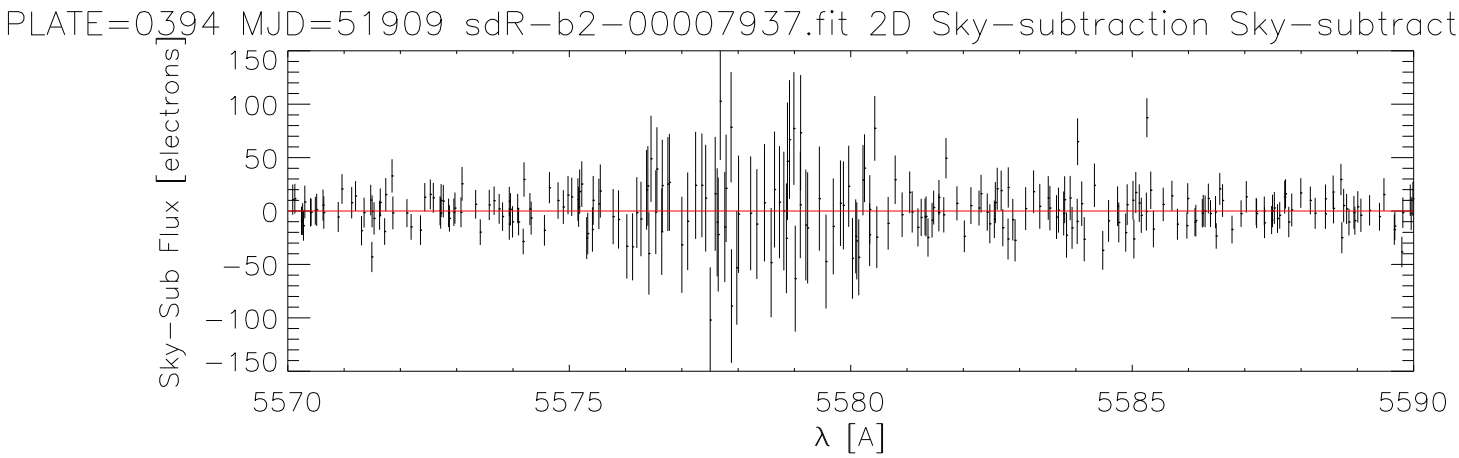

PLATE=0394 MJD=51909 sdR-b2-00007937.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

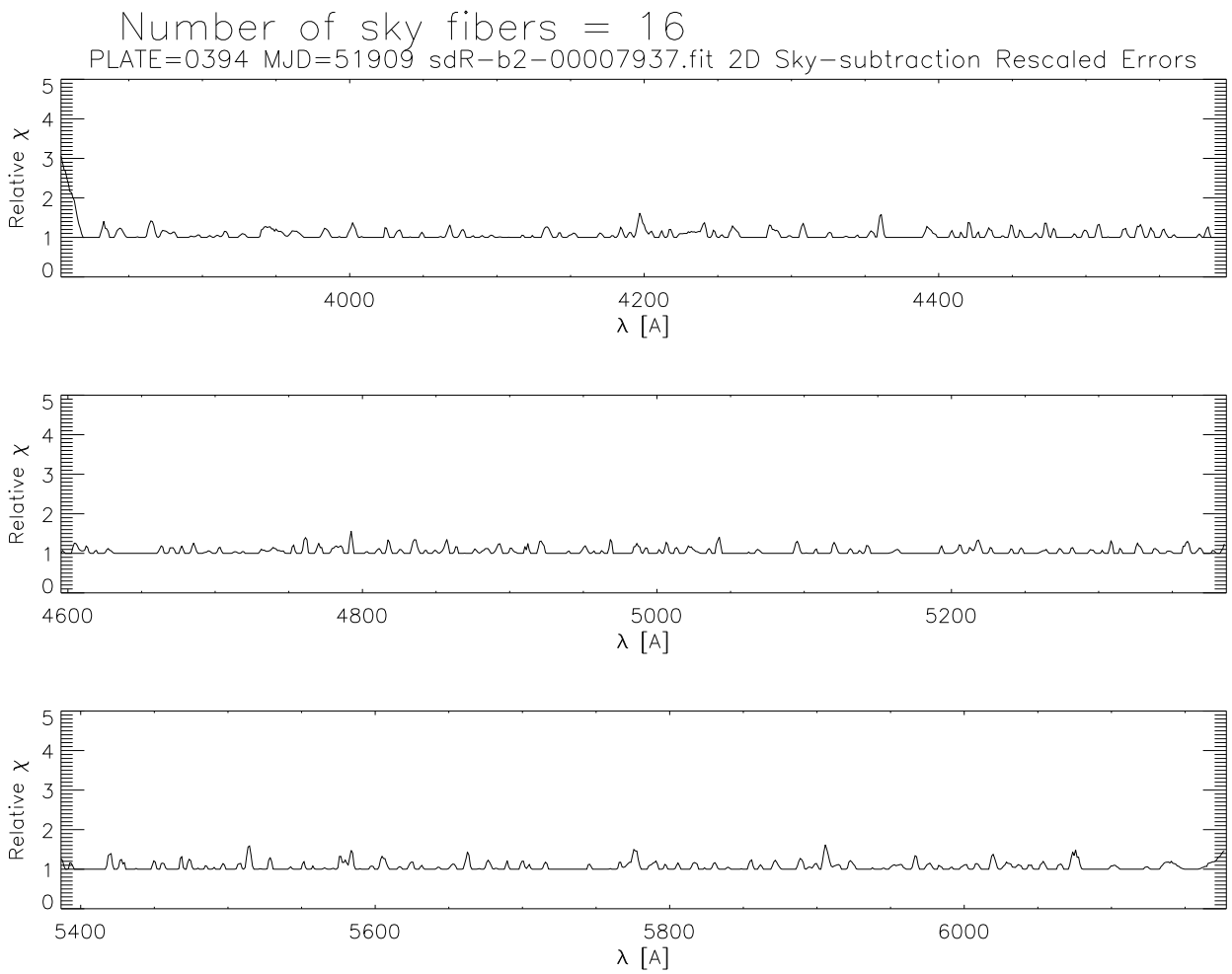

PLATE=0394 MJD=51909 sdR-b2-00007937.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
5570
5575
5580
5585
5590
λ [A]

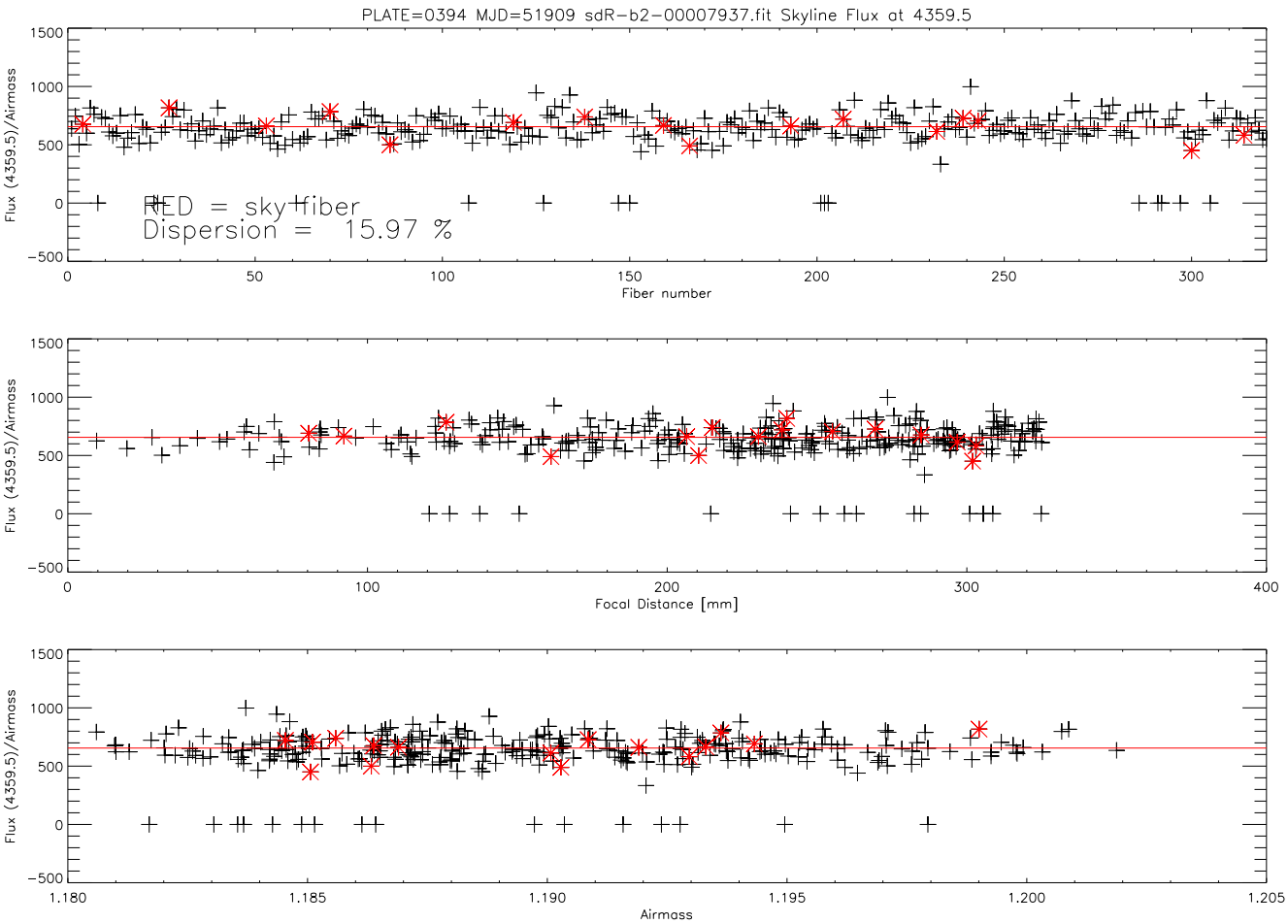

Number of sky fibers = 16
PLATE=0394 MJD=51909 sdR-b2-00007937.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

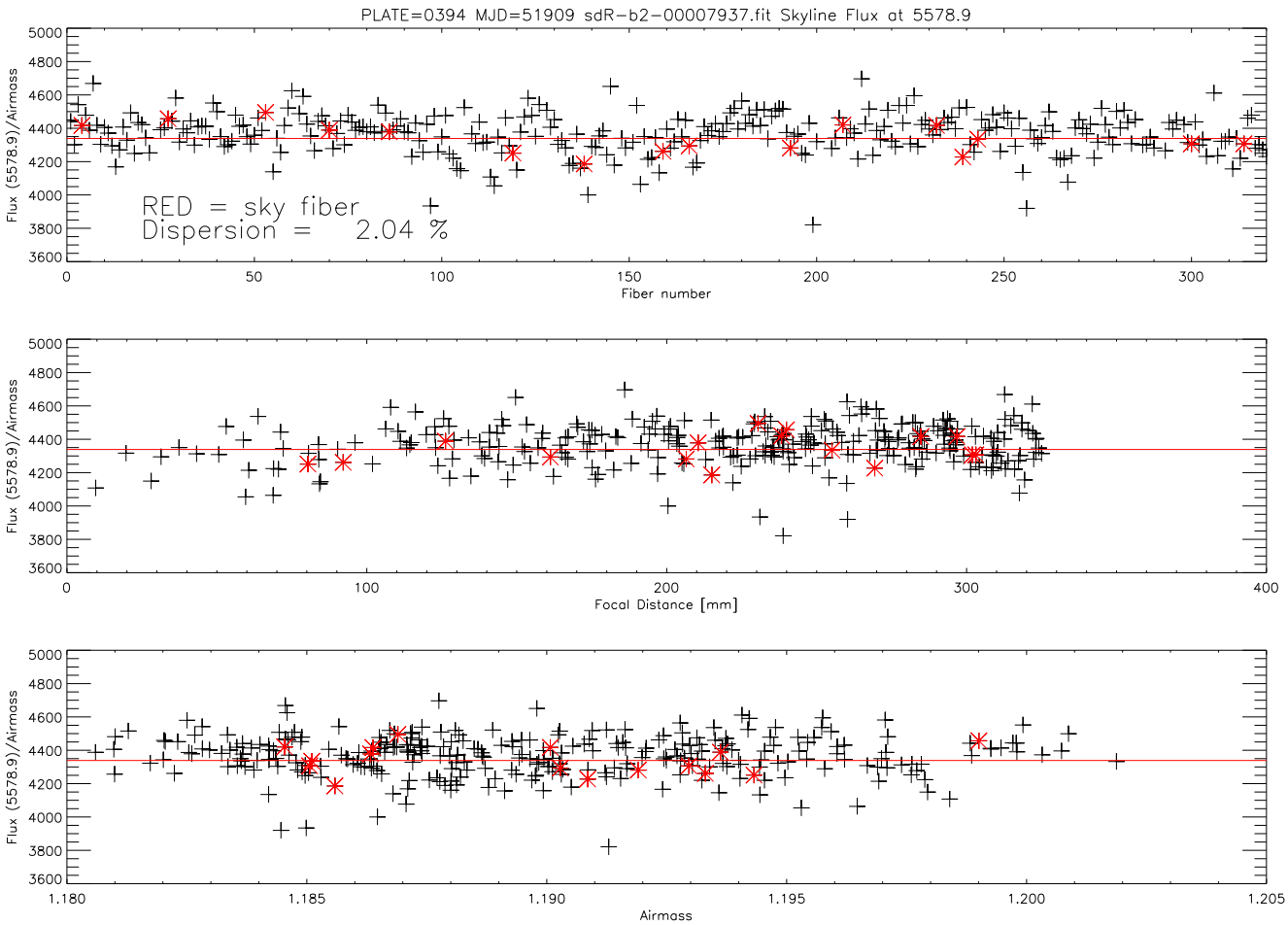

PLATE=0394 MJD=51909 sdR-b2-00007937.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

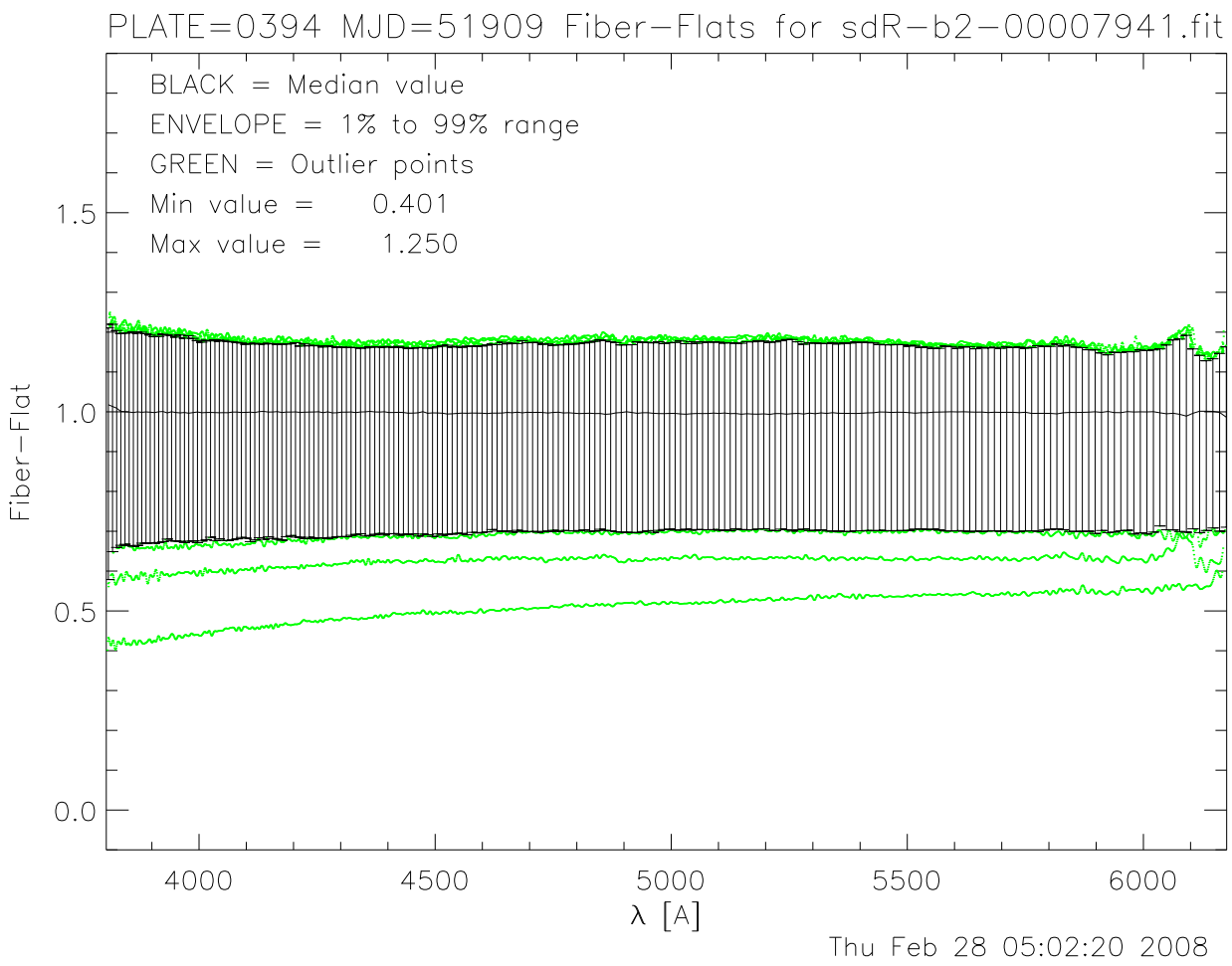

PLATE=0394 MJD=51909 sdR-b2-00007937.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

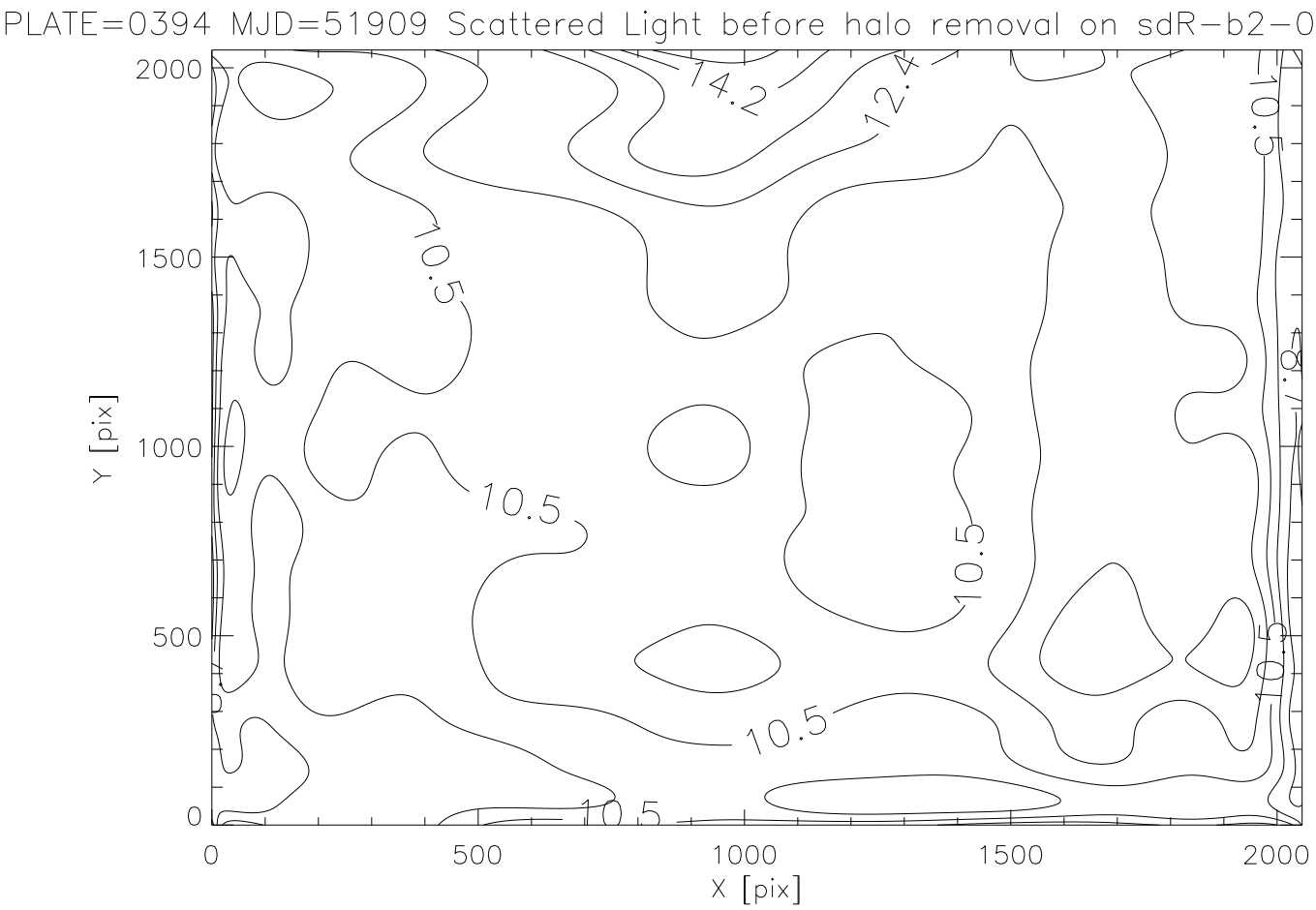

PLATE=0394 MJD=51909 sdR-b2-00007937.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
5570
5575
5580
5585
5590
λ [A]

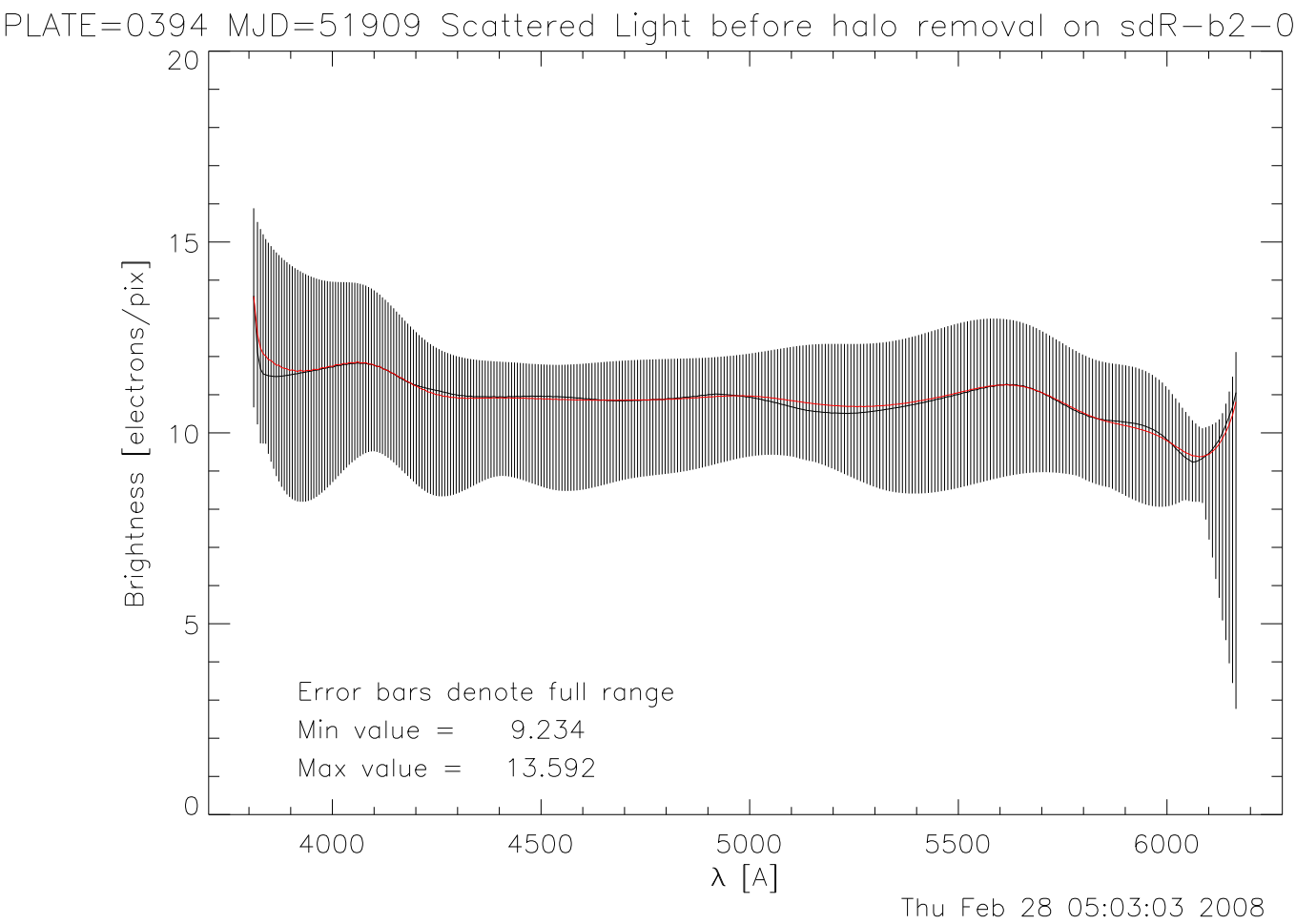

Number of sky fibers = 16
PLATE=0394 MJD=51909 sdR-b2-00007937.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

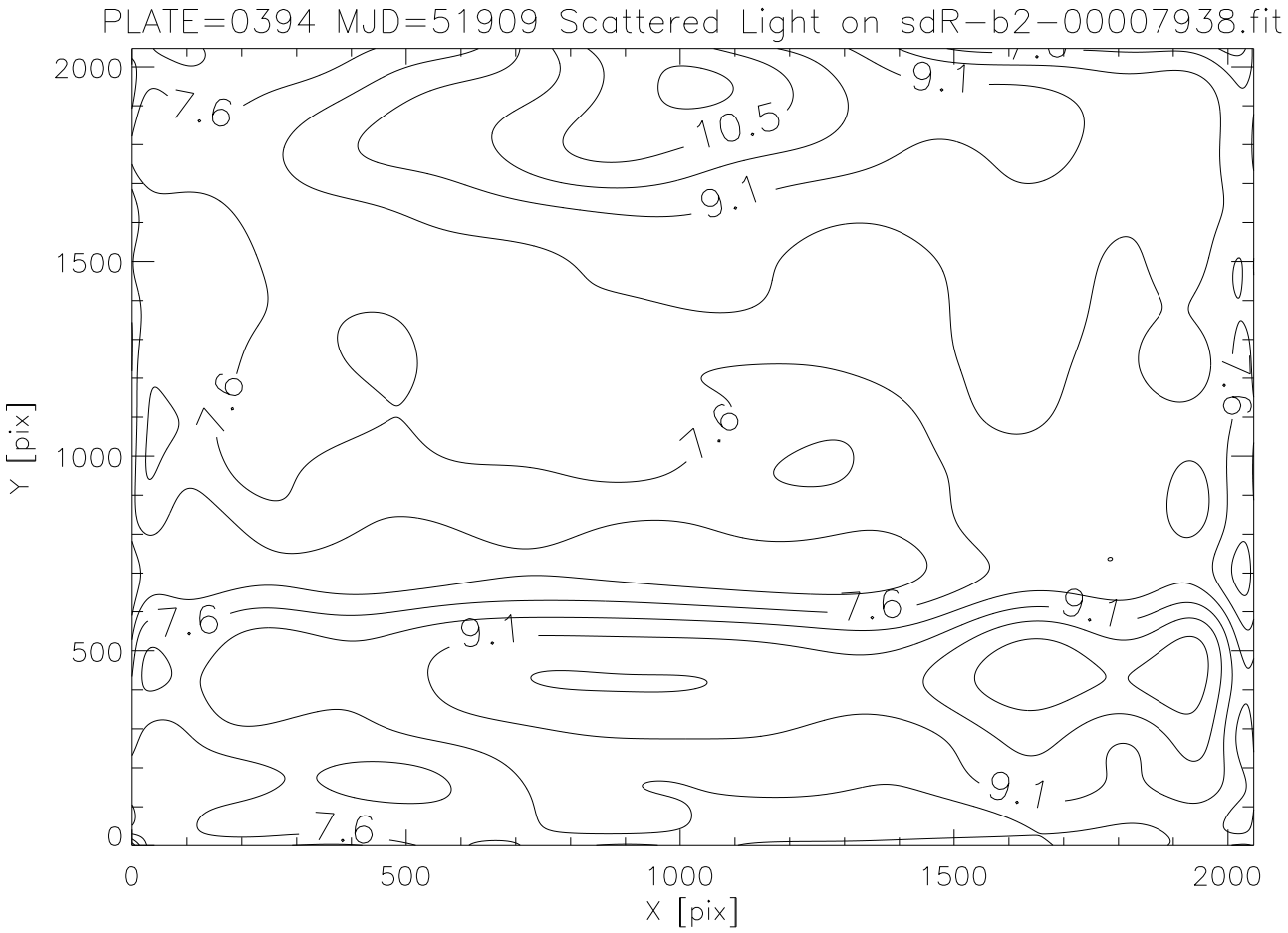

PLATE=0394 MJD=51909 sdR-b2-00007937.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 15.97 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

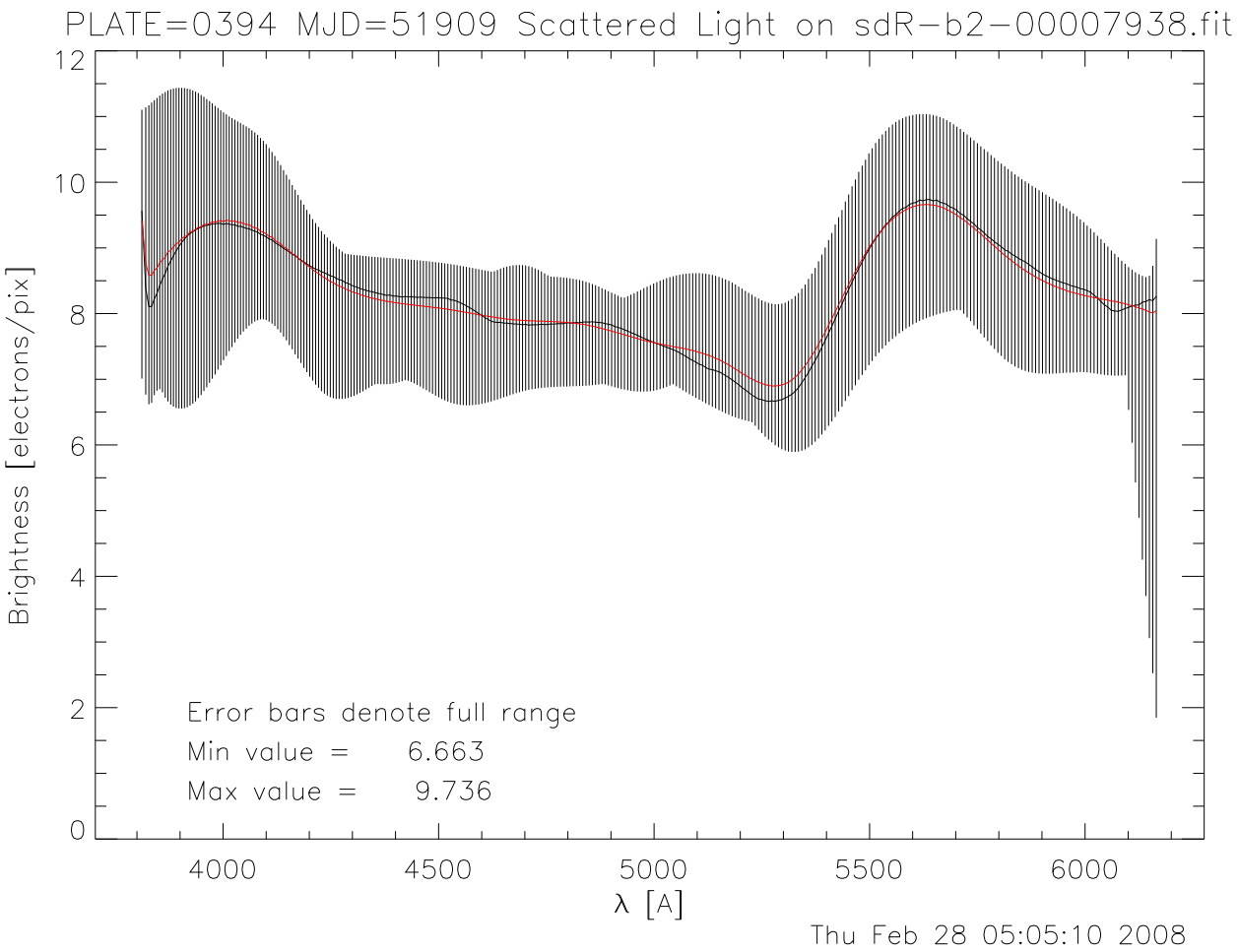

PLATE=0394 MJD=51909 sdR-b2-00007937.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.04 %
Fiber number
Focal Distance [mm]
Airmass

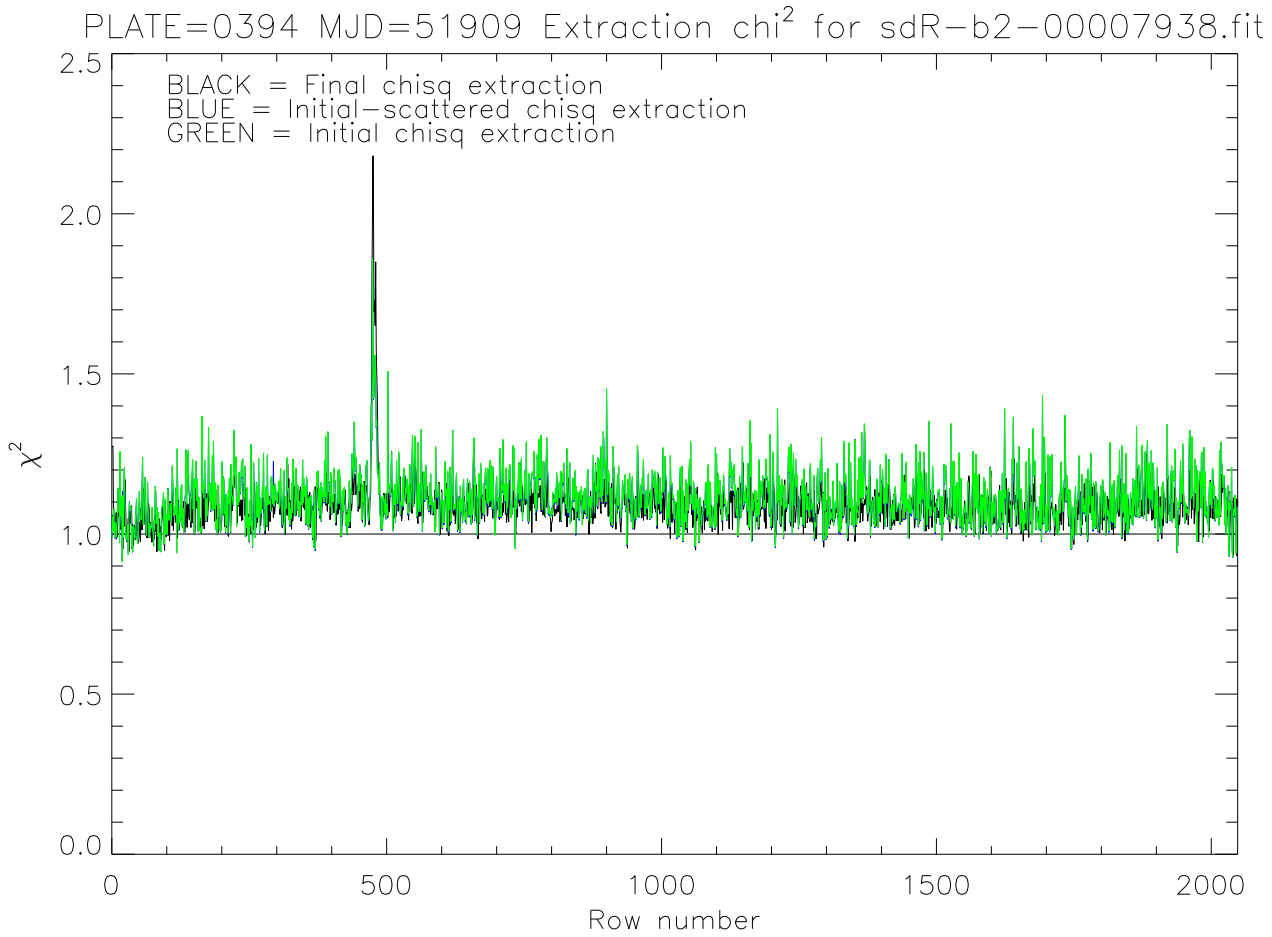

PLATE=0394 MJD=51909 Fiber-Flats for sdR-b2-00007941.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.401
Max value = 1.250
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Thu Feb 28 05:02:20 2008

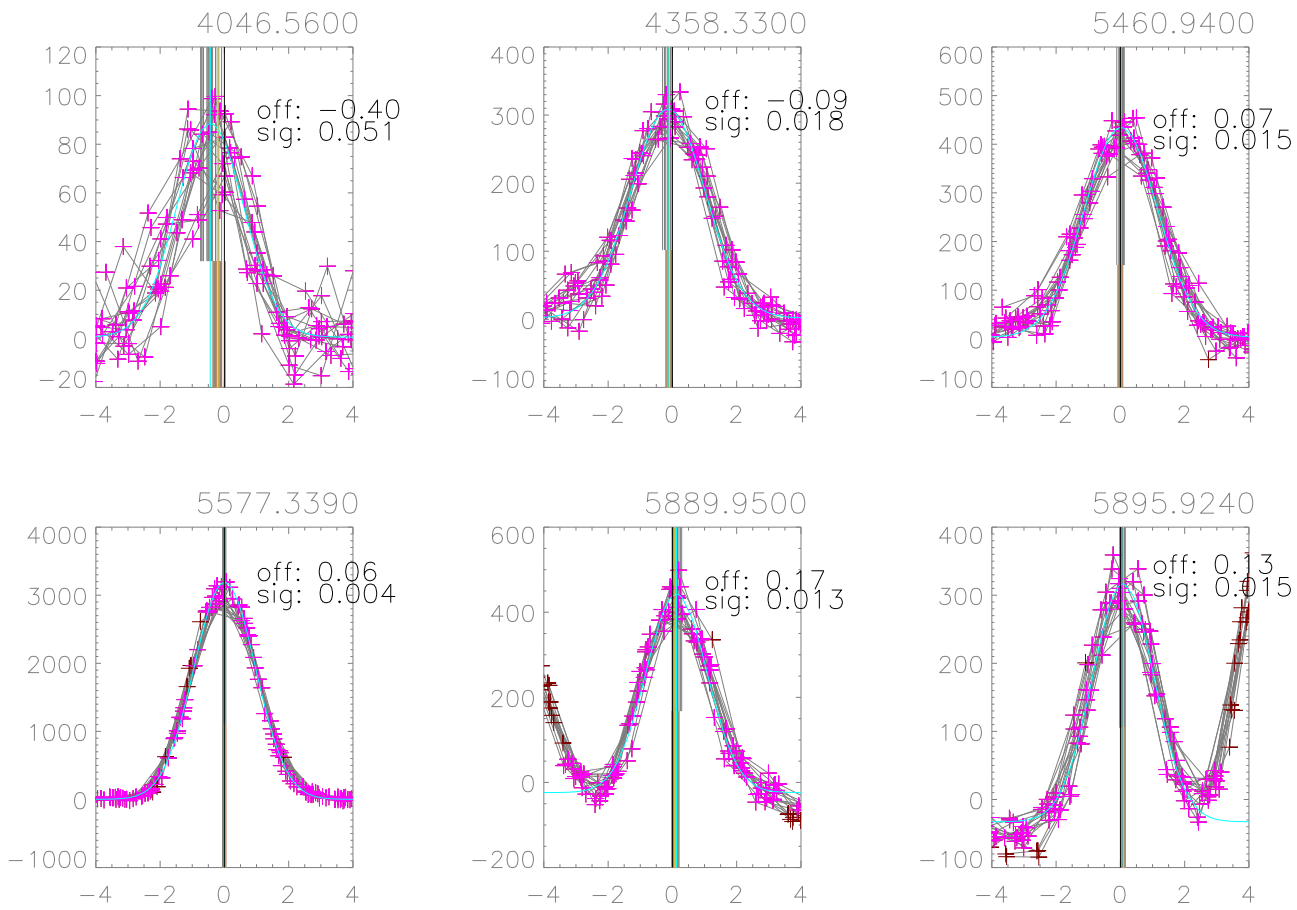

PLATE=0394 MJD=51909 Scattered Light before halo removal on sdR−b2−00007938.f
14.2
12.4
10.5
10.5
10.5
10.5
10.5
10.5
10.5
2000
1500
1000
500
0
0
500
1000
1500
2000
Y [pix]
X [pix]

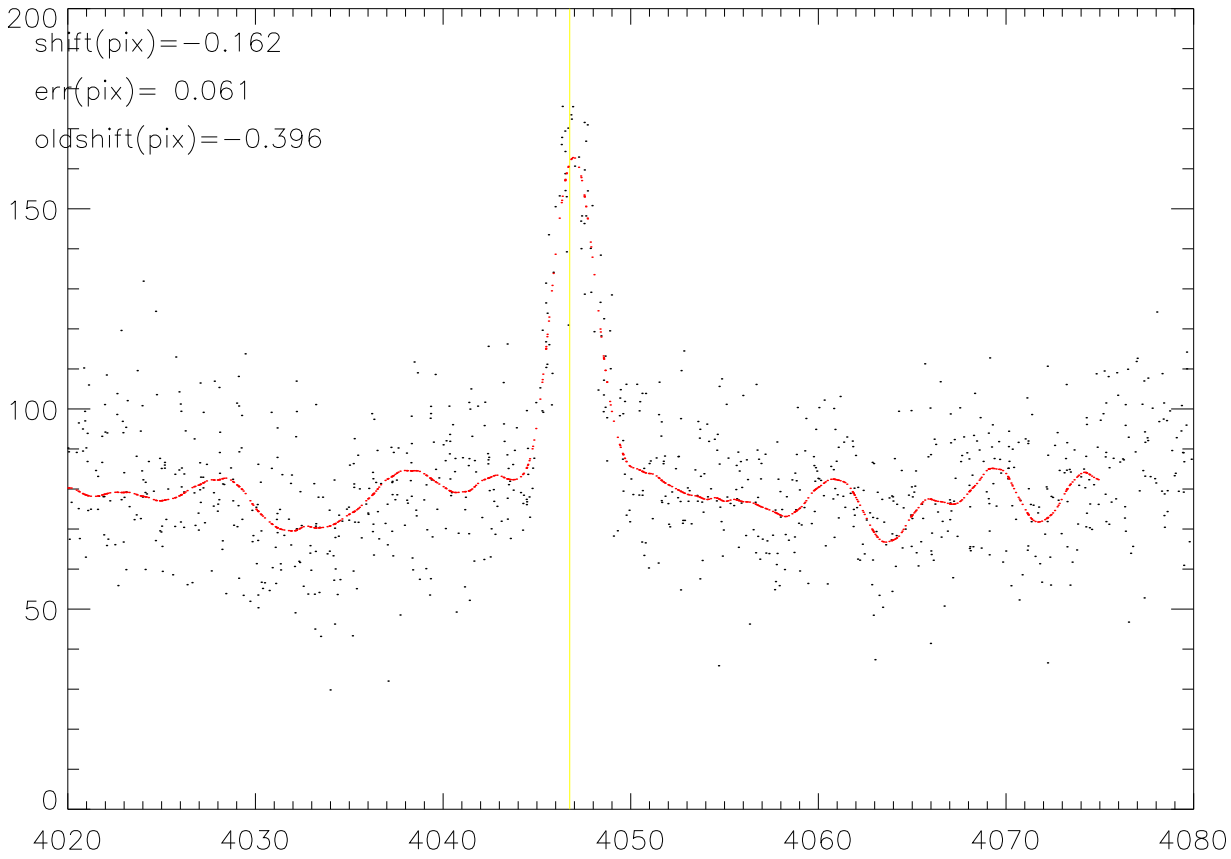

PLATE=0394 MJD=51909 Scattered Light before halo removal on sdR-b2-00007938.f
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 9.234
Max value = 13.592
4000
4500
5000
5500
6000
λ [A]
Thu Feb 28 05:03:03 2008

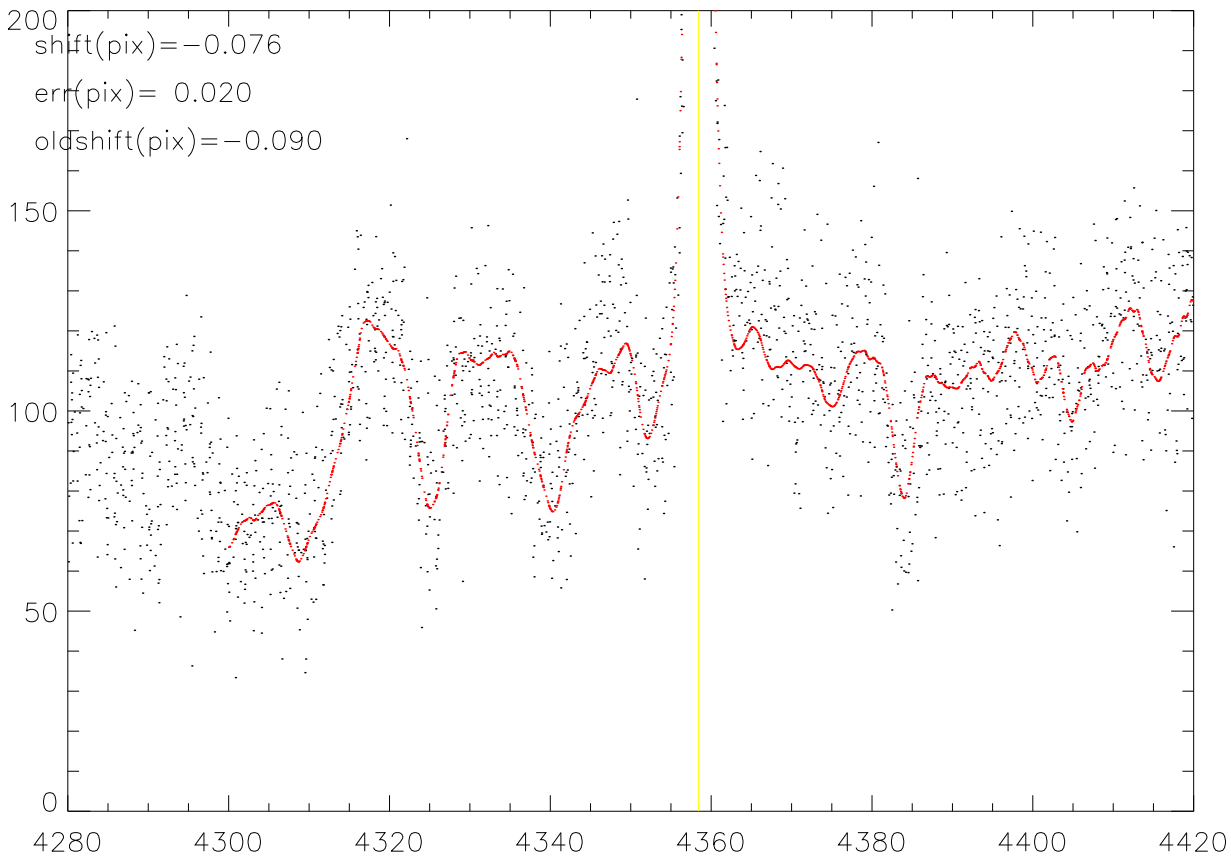

PLATE=0394 MJD=51909 Scattered Light on sdR-b2-00007938.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
7.6
9.1
10.5

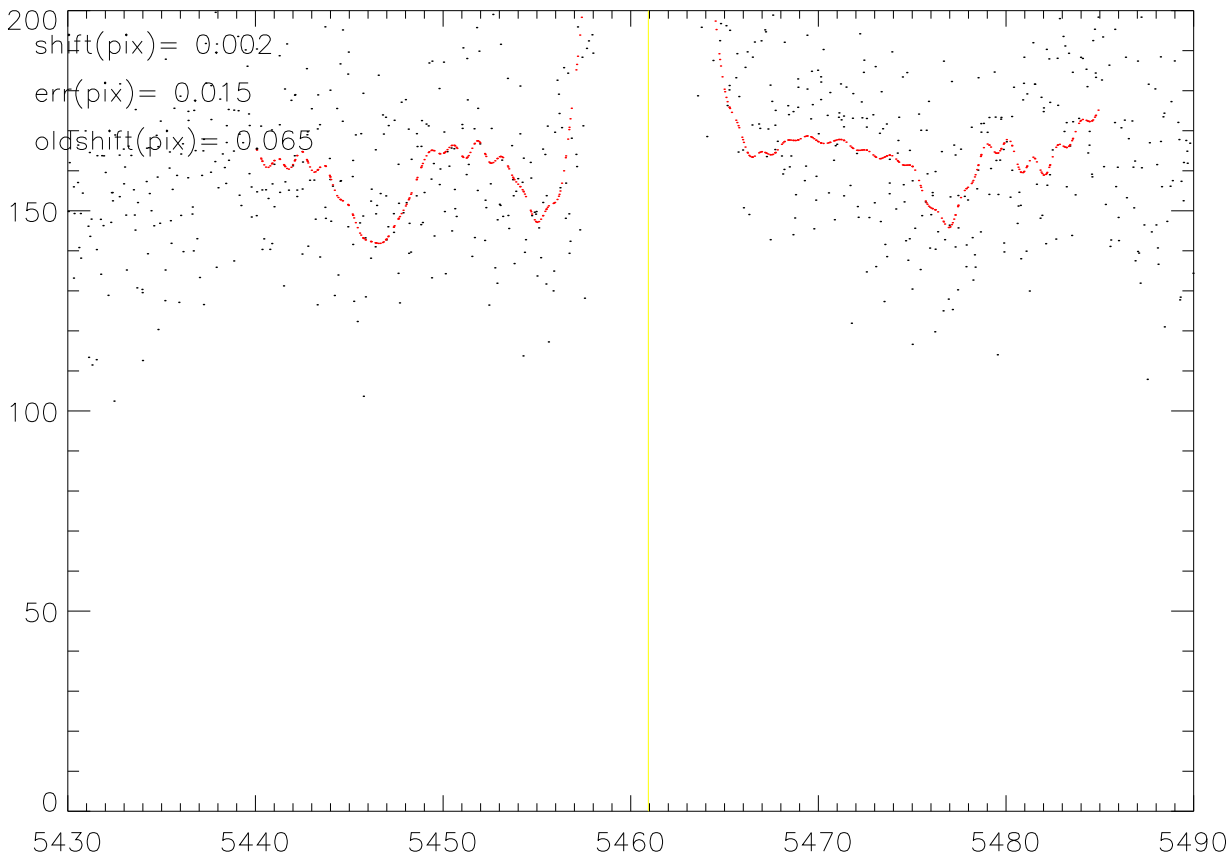

PLATE=0394 MJD=51909 Scattered Light on sdR-b2-00007938.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.663
Max value = 9.736
Thu Feb 28 05:05:10 2008

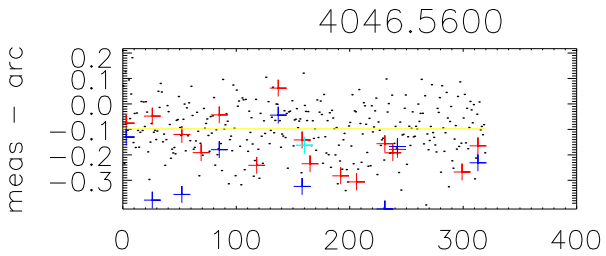

PLATE=0394 MJD=51909 Extraction chi^2 for sdR-b2-00007938.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

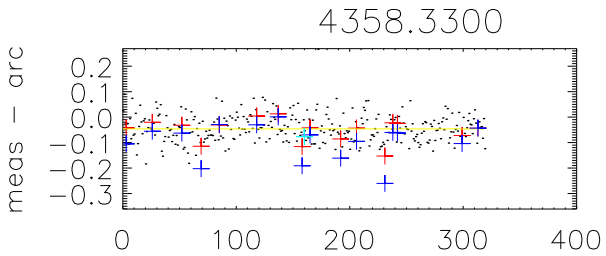

4046.5600
off: −0.40
sig: 0.051
4358.3300
off: −0.09
sig: 0.018
5460.9400
off: 0.07
sig: 0.015
5577.3390
off: 0.06
sig: 0.004
5889.9500
off: 0.17
sig: 0.013
5895.9240
off: 0.13
sig: 0.015

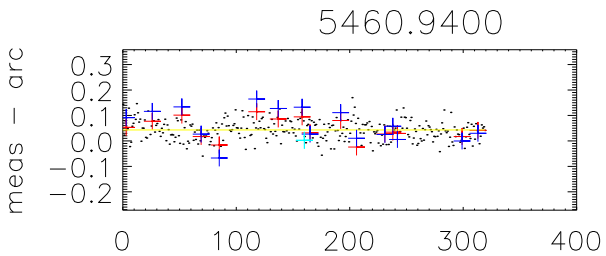

shift(pix)=−0.162
err(pix)= 0.061
oldshift(pix)=−0.396
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

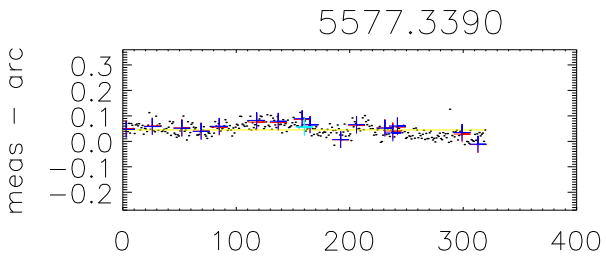

shift(pix)=−0.076
err(pix)= 0.020
oldshift(pix)=−0.090
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

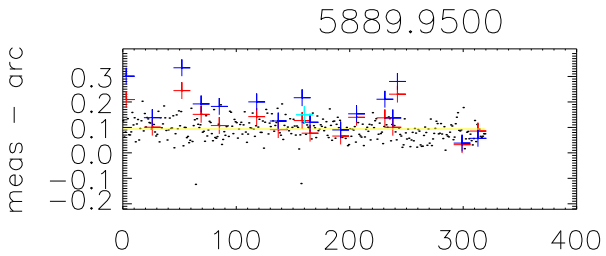

shift(pix)= 0.002
err(pix)= 0.015
oldshift(pix)= 0.065
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

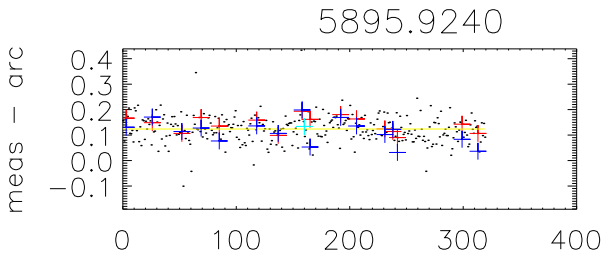

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

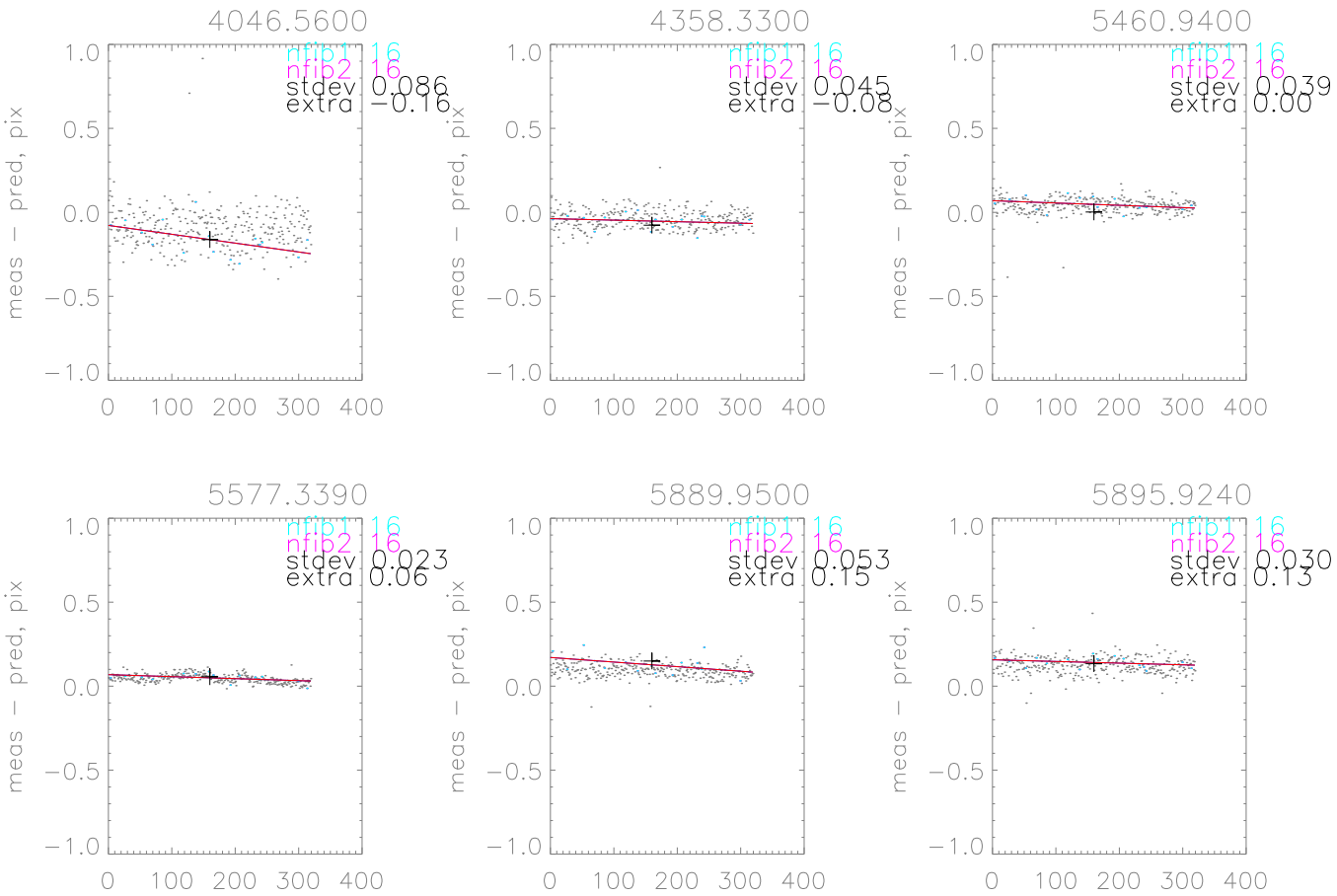

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

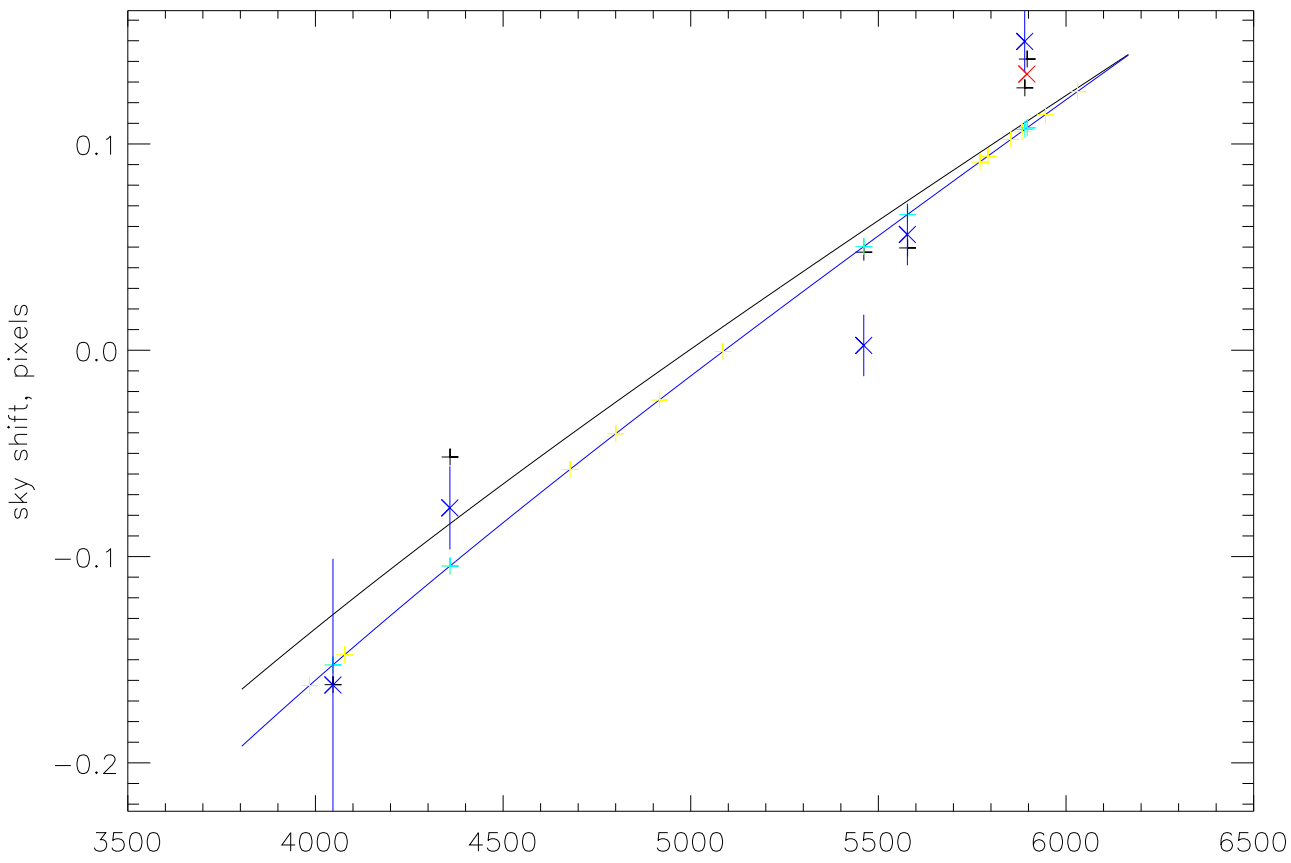

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

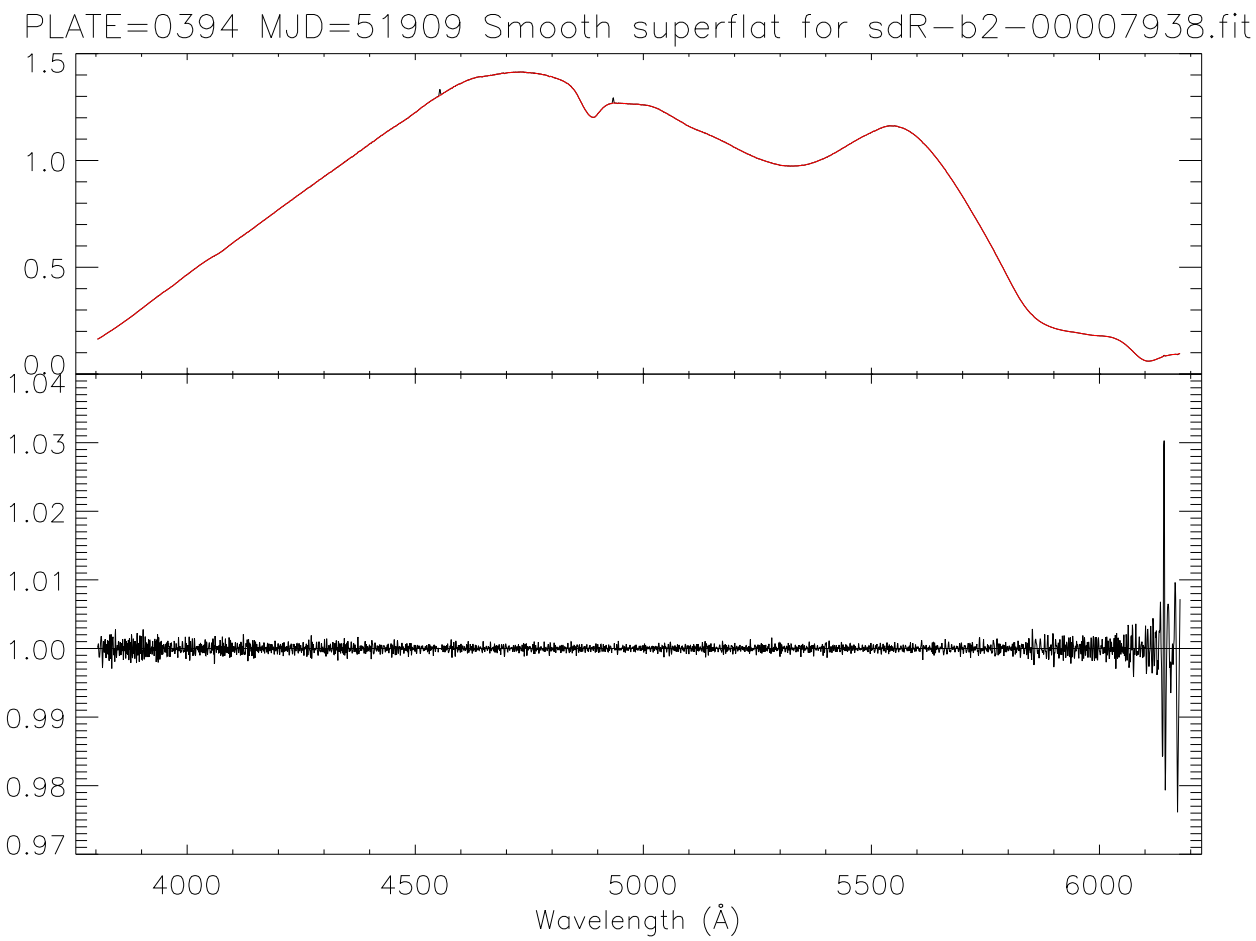

5889.9500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

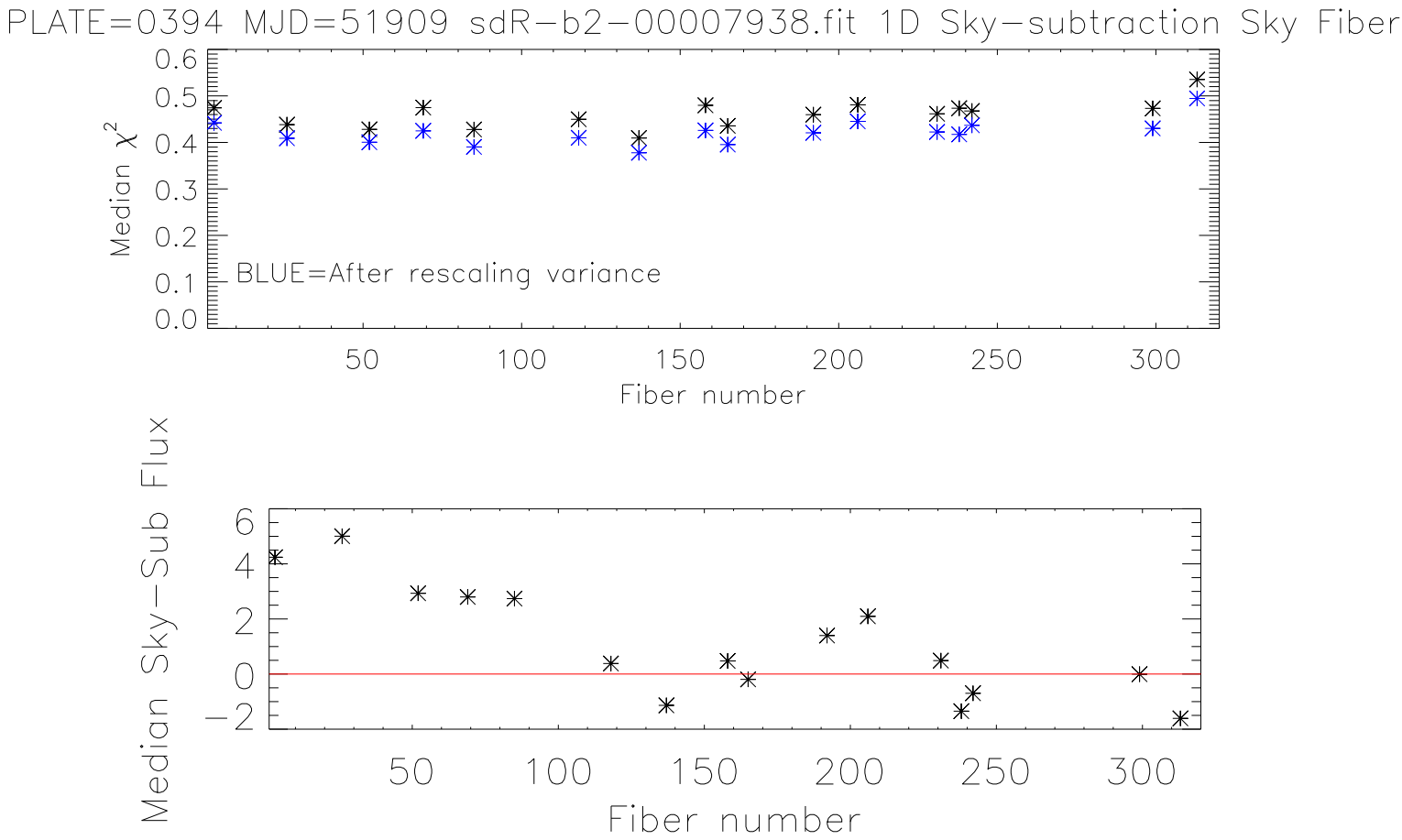

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

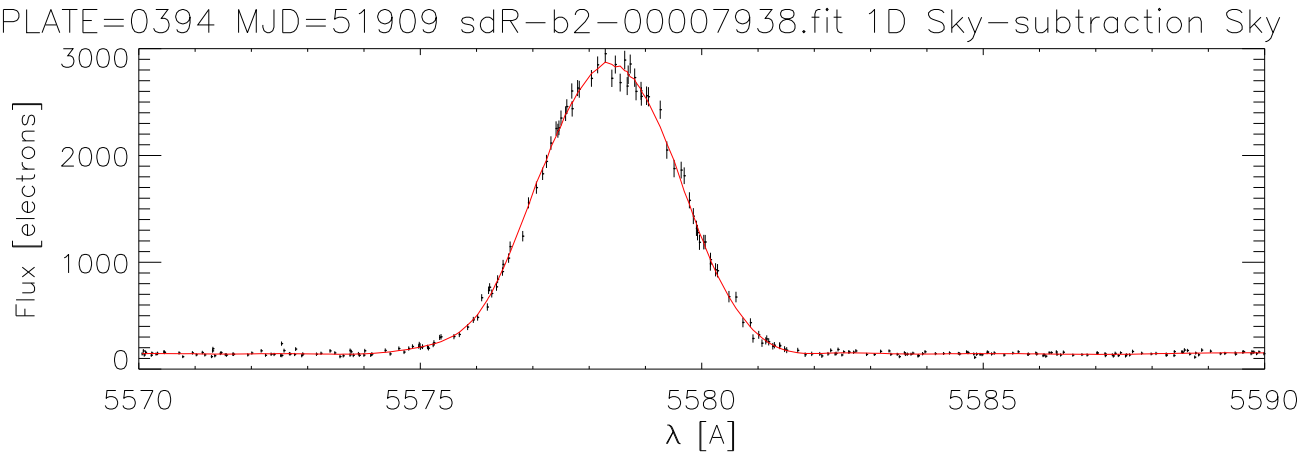

4046.5600
nfib1 16
nfib2 16
stdev 0.086
extra −0.16
4358.3300
nfib1 16
nfib2 16
stdev 0.045
extra −0.08
5460.9400
nfib1 16
nfib2 16
stdev 0.039
extra 0.00
5577.3390
nfib1 16
nfib2 16
stdev 0.023
extra 0.06
5889.9500
nfib1 16
nfib2 16
stdev 0.053
extra 0.15
5895.9240
nfib1 16
nfib2 16
stdev 0.030
extra 0.13
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

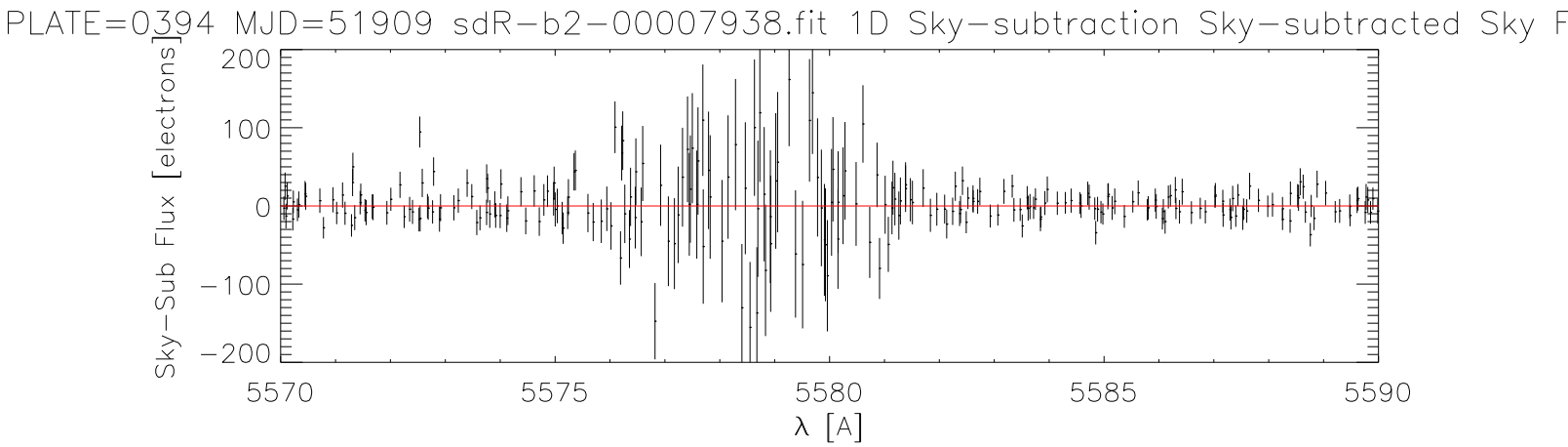

sky shift, pixels
0.1
0.0
−0.1
−0.2
3500
4000
4500
5000
5500
6000
6500

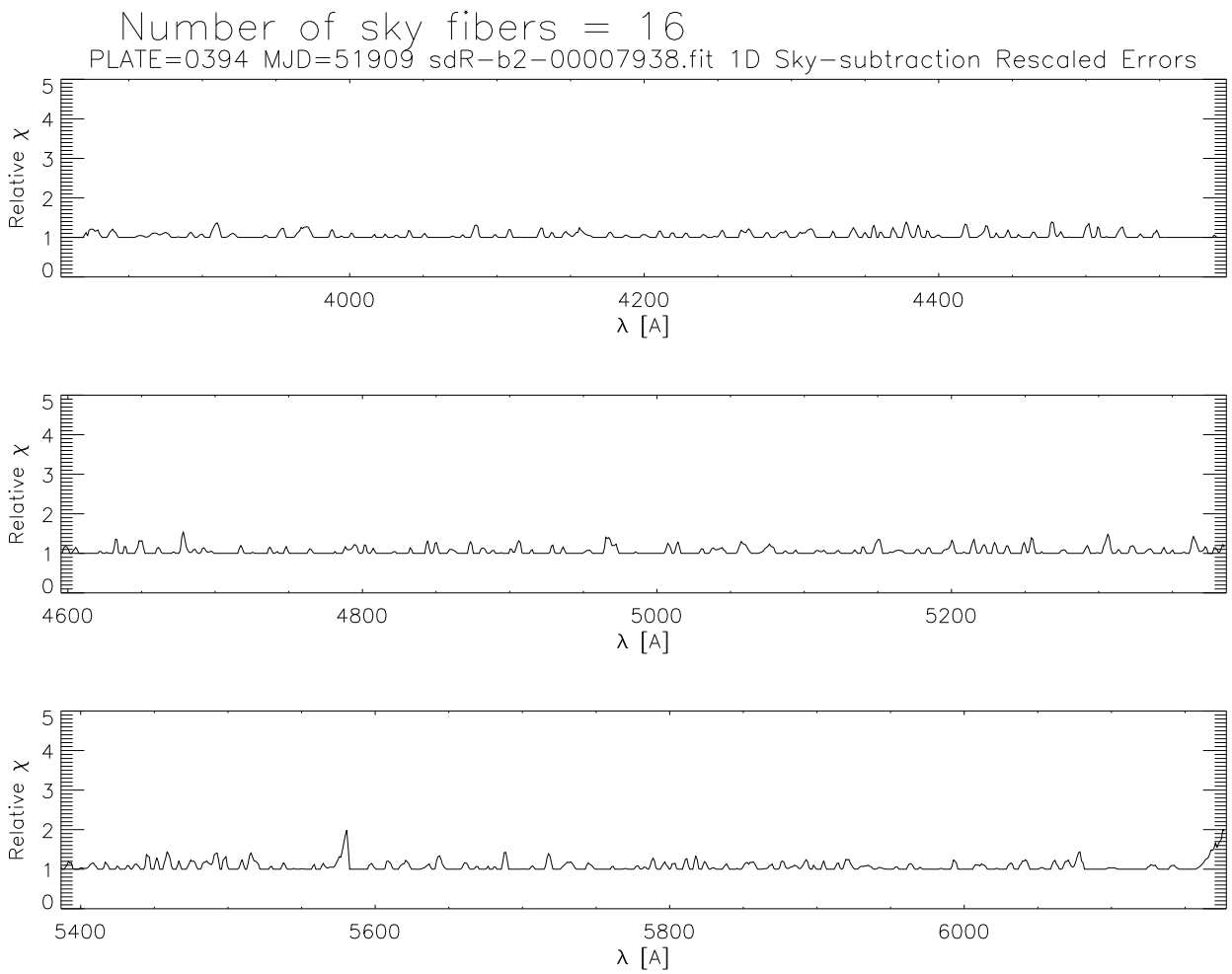
es= 0.0000

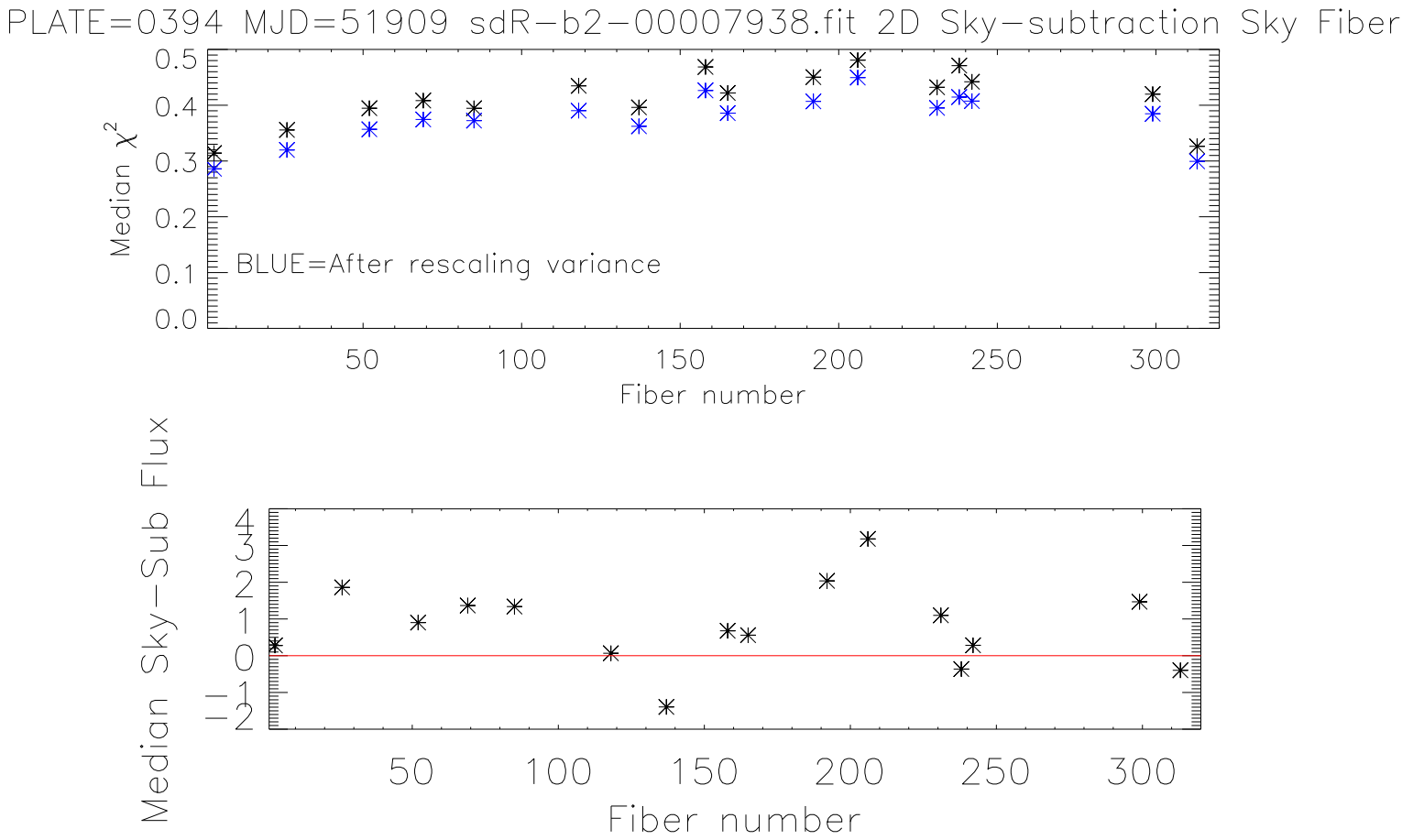

PLATE=0394 MJD=51909 Smooth superflat for sdR-b2-00007938.fit
1.5
1.0
0.5
0.0
1.04
1.03
1.02
1.01
1.00
0.99
0.98
0.97
4000
4500
5000
5500
6000
Wavelength (Å)

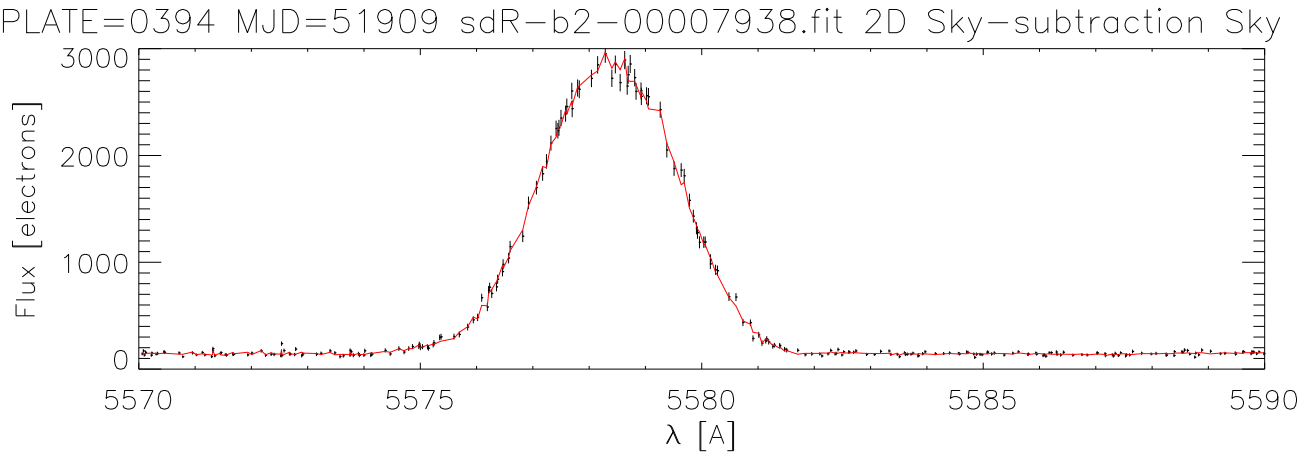

PLATE=0394 MJD=51909 sdR-b2-00007938.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

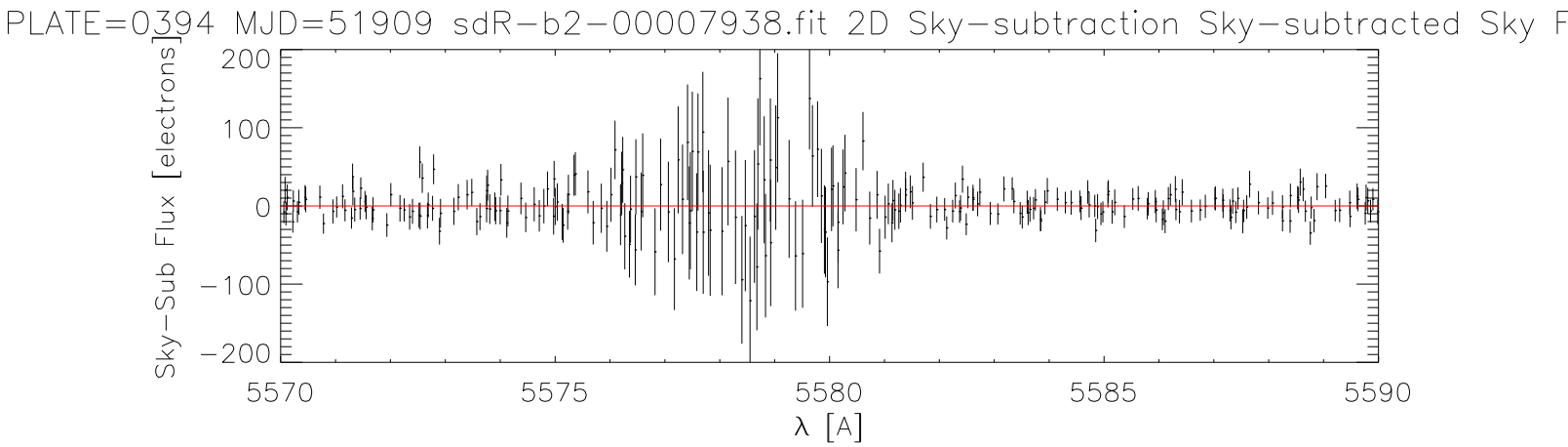

PLATE=0394 MJD=51909 sdR-b2-00007938.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

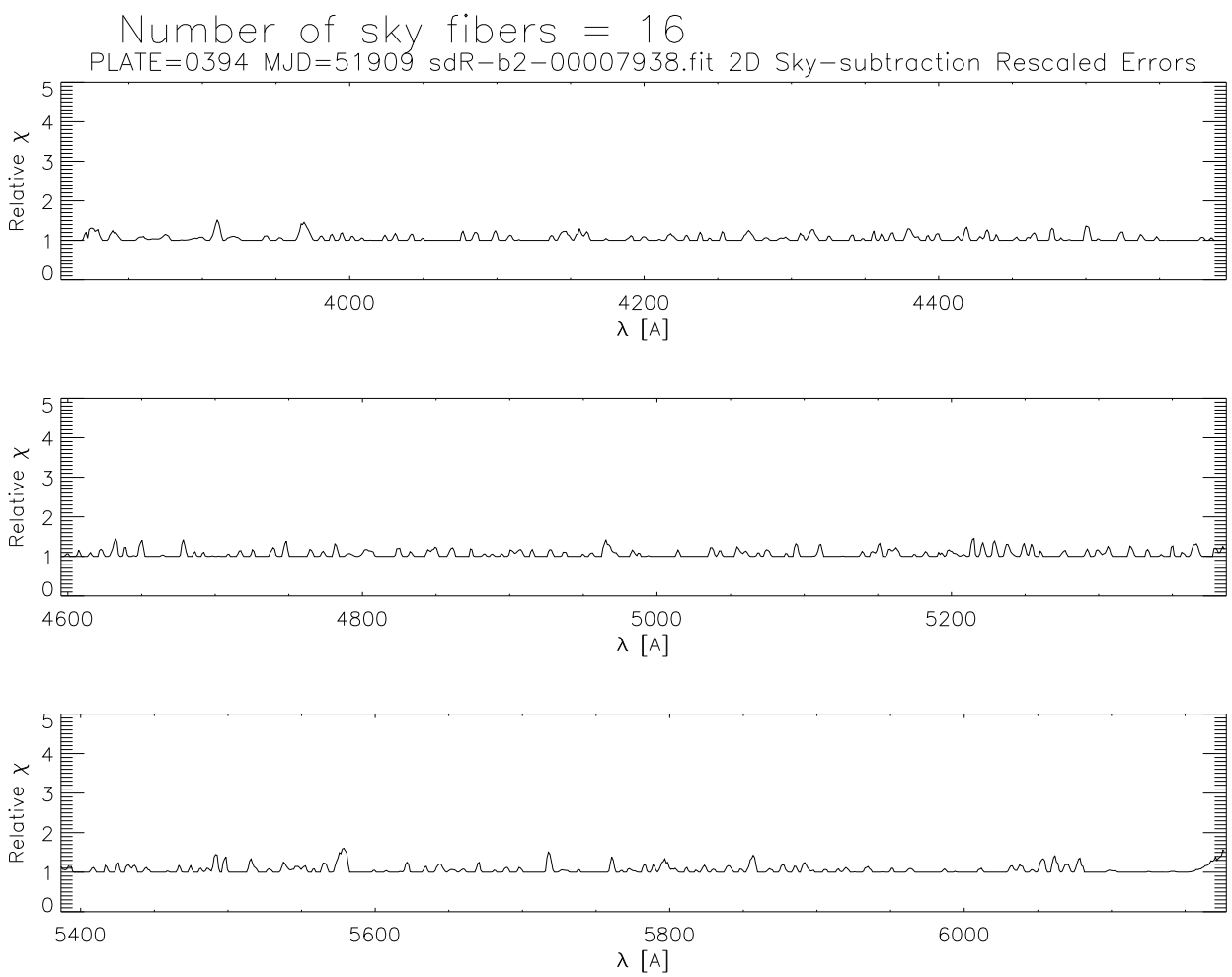

PLATE=0394 MJD=51909 sdR-b2-00007938.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

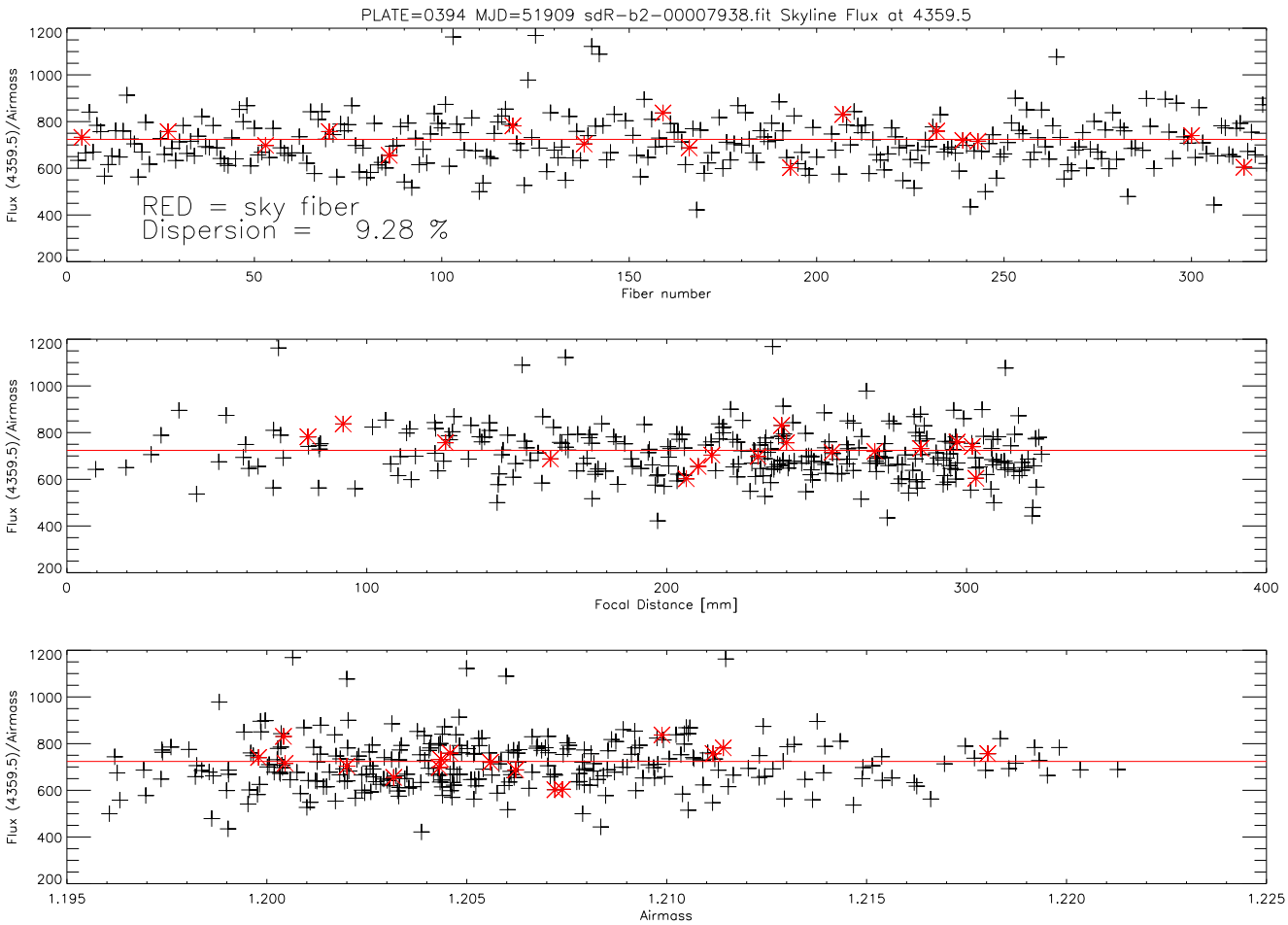

Number of sky fibers = 16
PLATE=0394 MJD=51909 sdR-b2-00007938.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

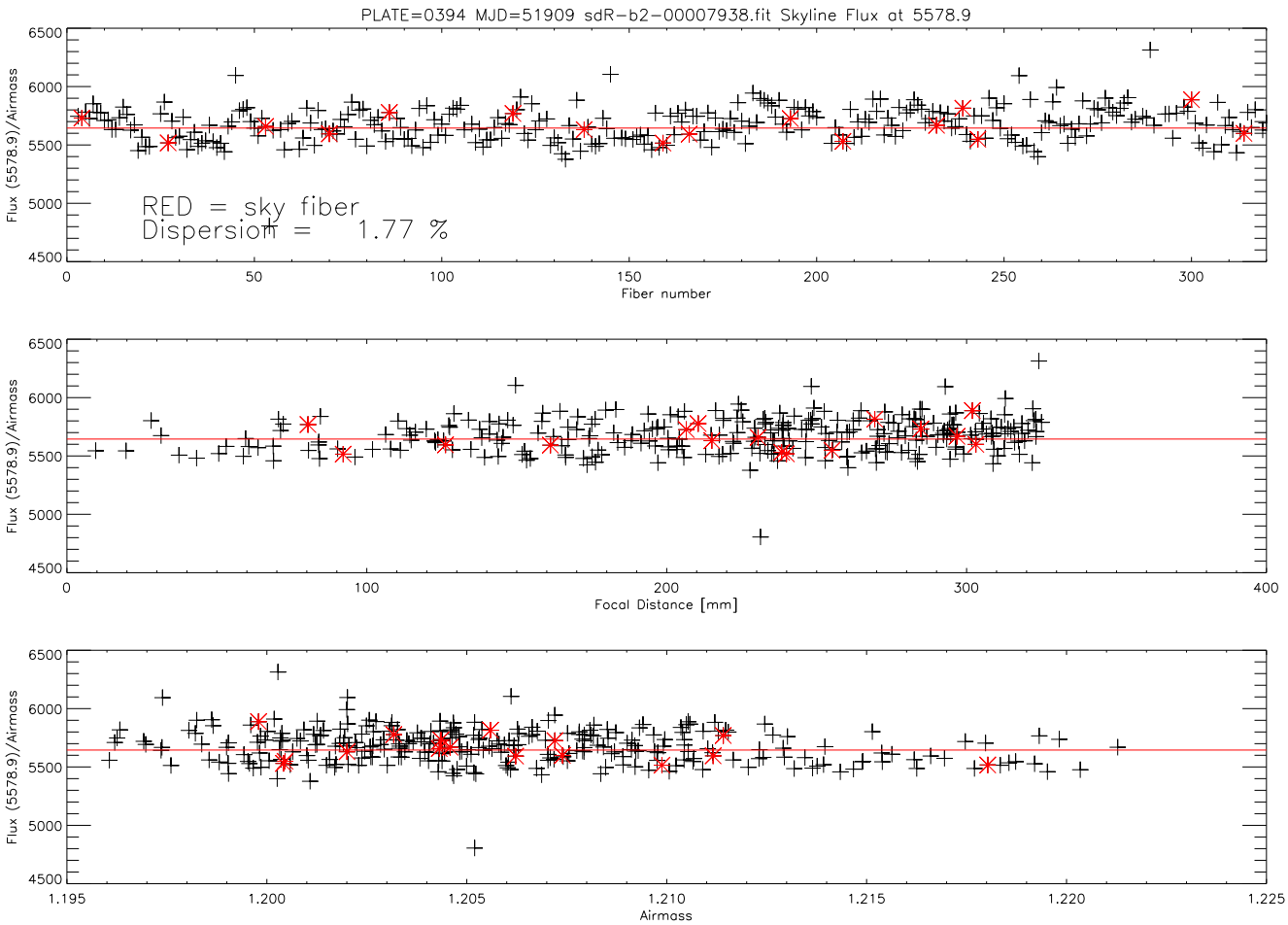

PLATE=0394 MJD=51909 sdR-b2-00007938.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

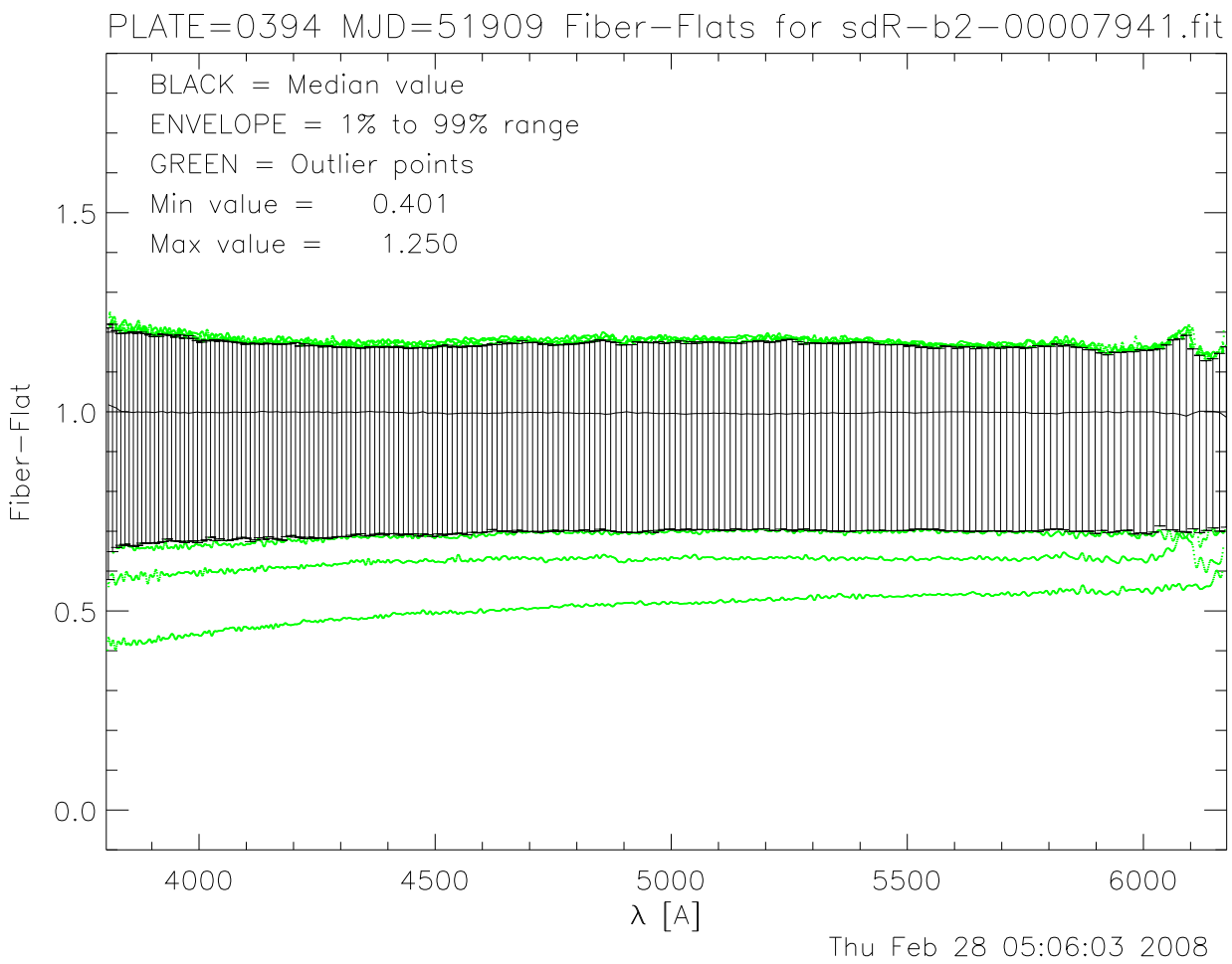

PLATE=0394 MJD=51909 sdR-b2-00007938.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

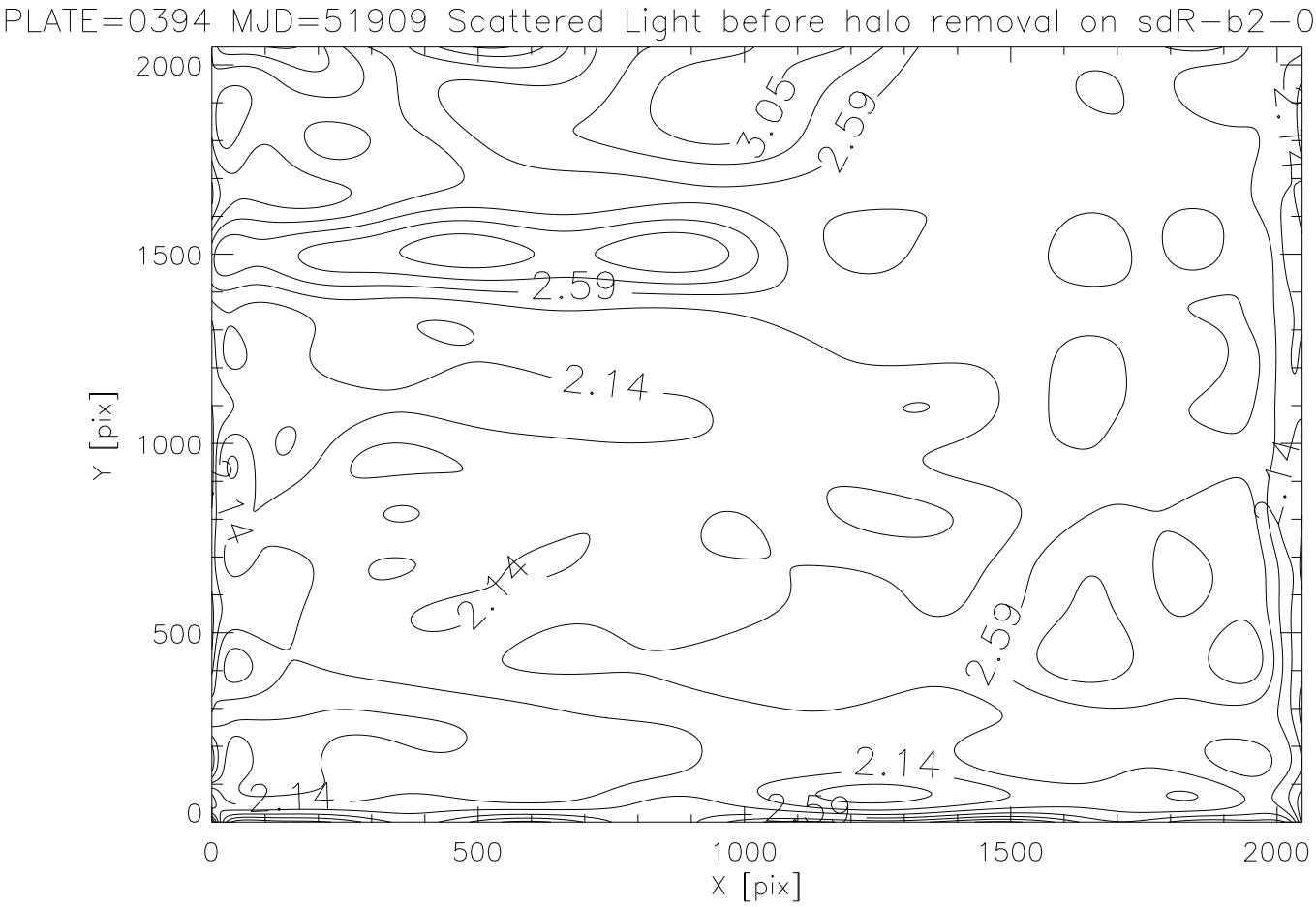

PLATE=0394 MJD=51909 sdR-b2-00007938.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

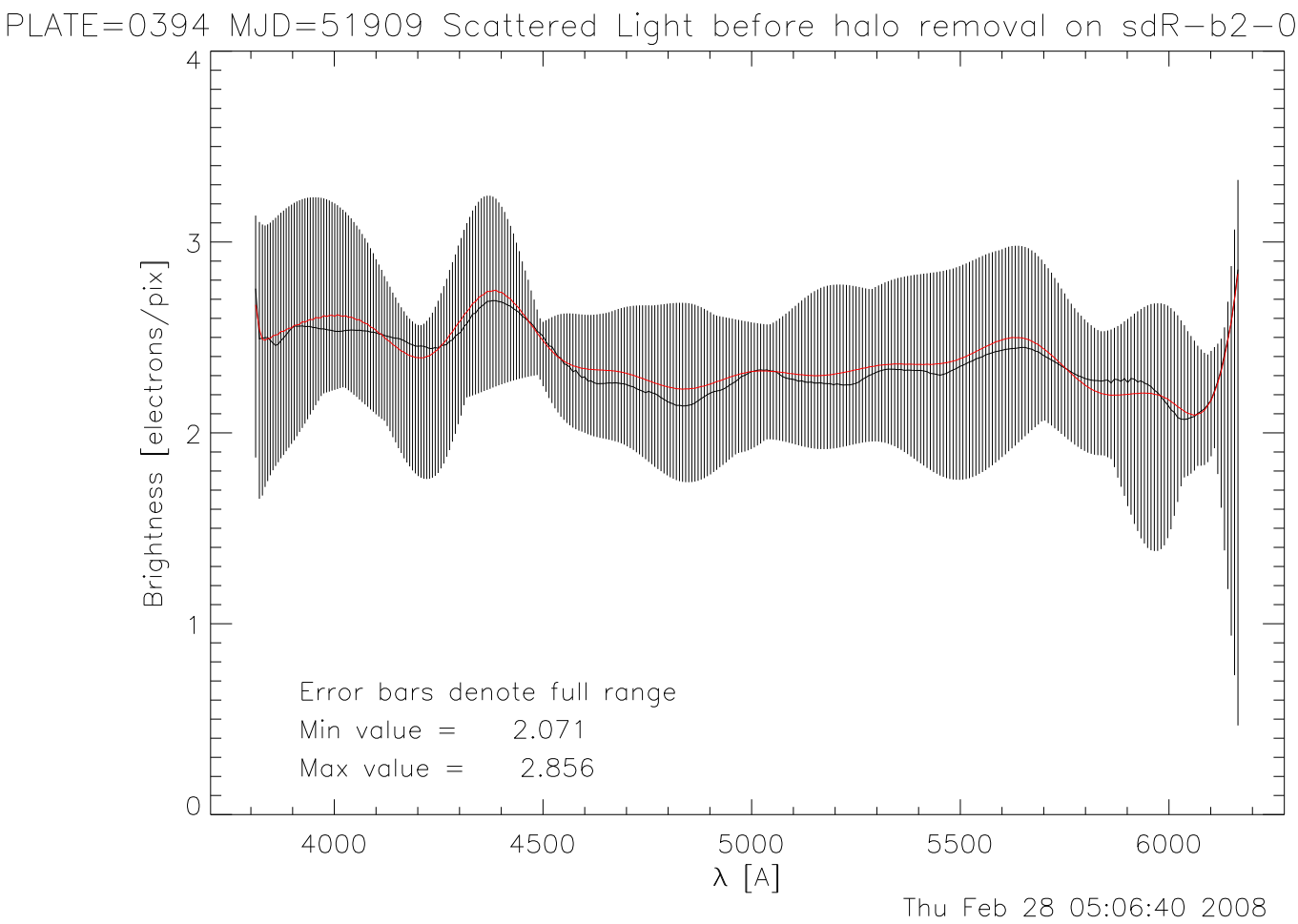

Number of sky fibers = 16
PLATE=0394 MJD=51909 sdR-b2-00007938.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

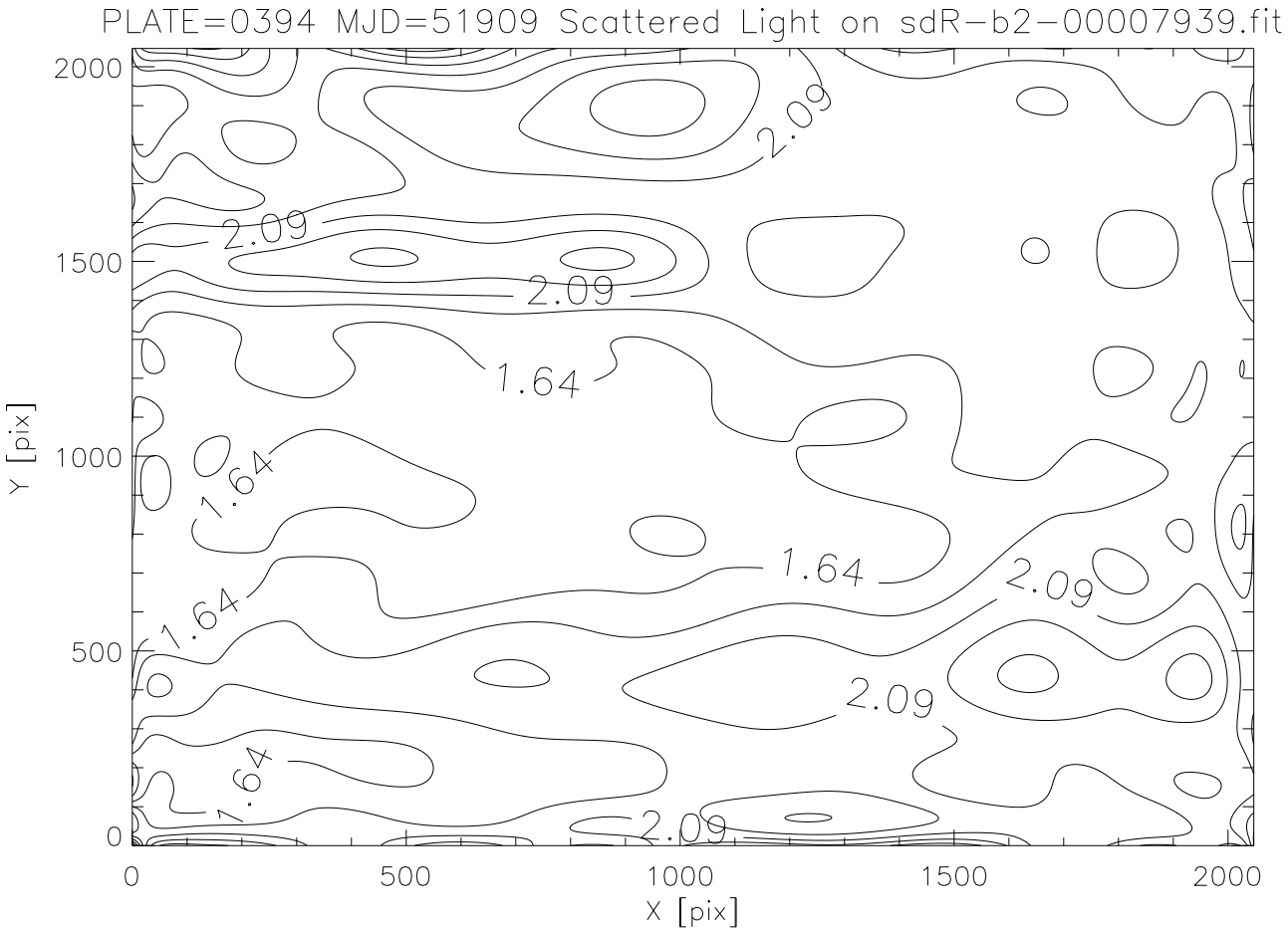

PLATE=0394 MJD=51909 sdR-b2-00007938.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 9.28 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

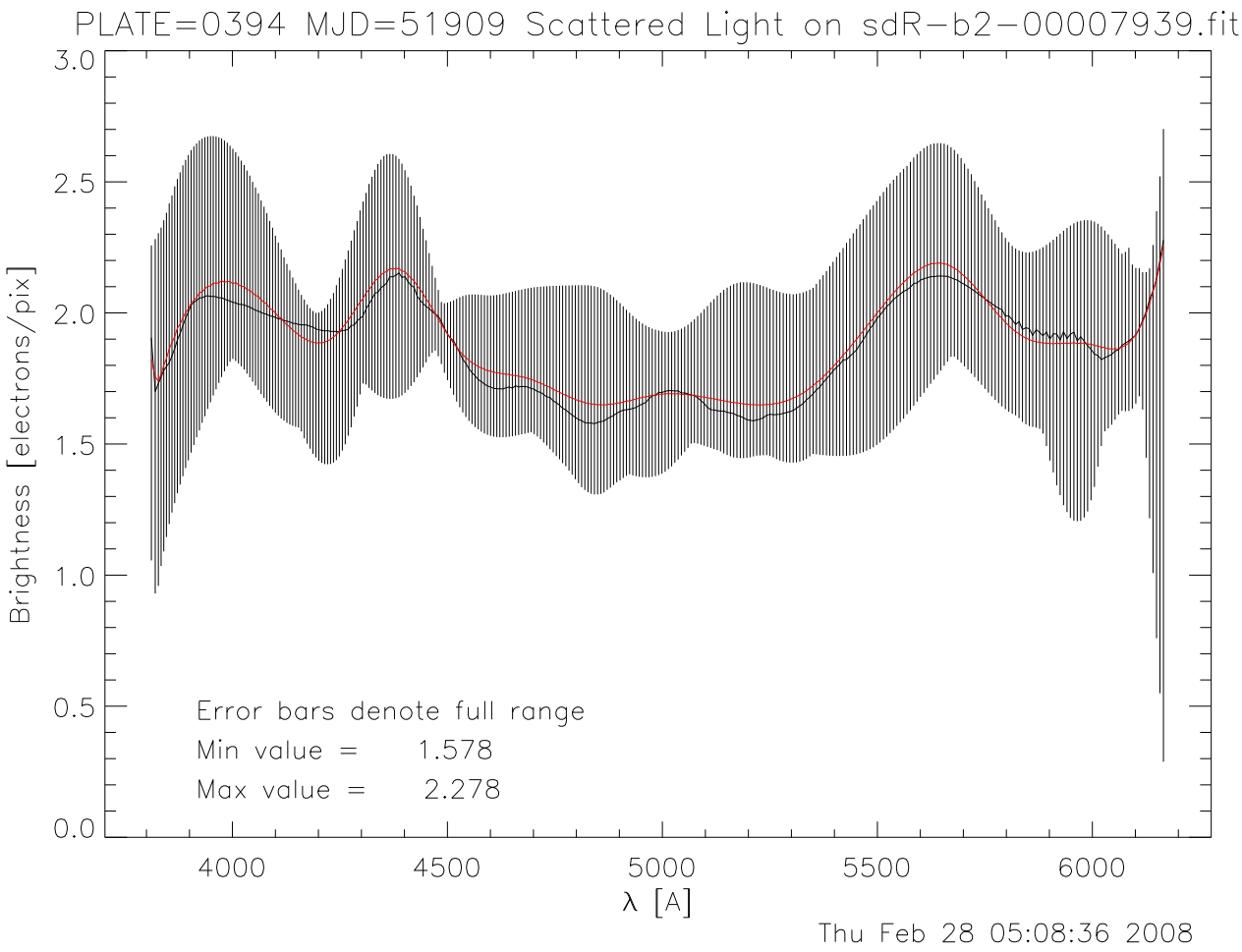

PLATE=0394 MJD=51909 sdR-b2-00007938.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.77 %
Fiber number
Focal Distance [mm]
Airmass

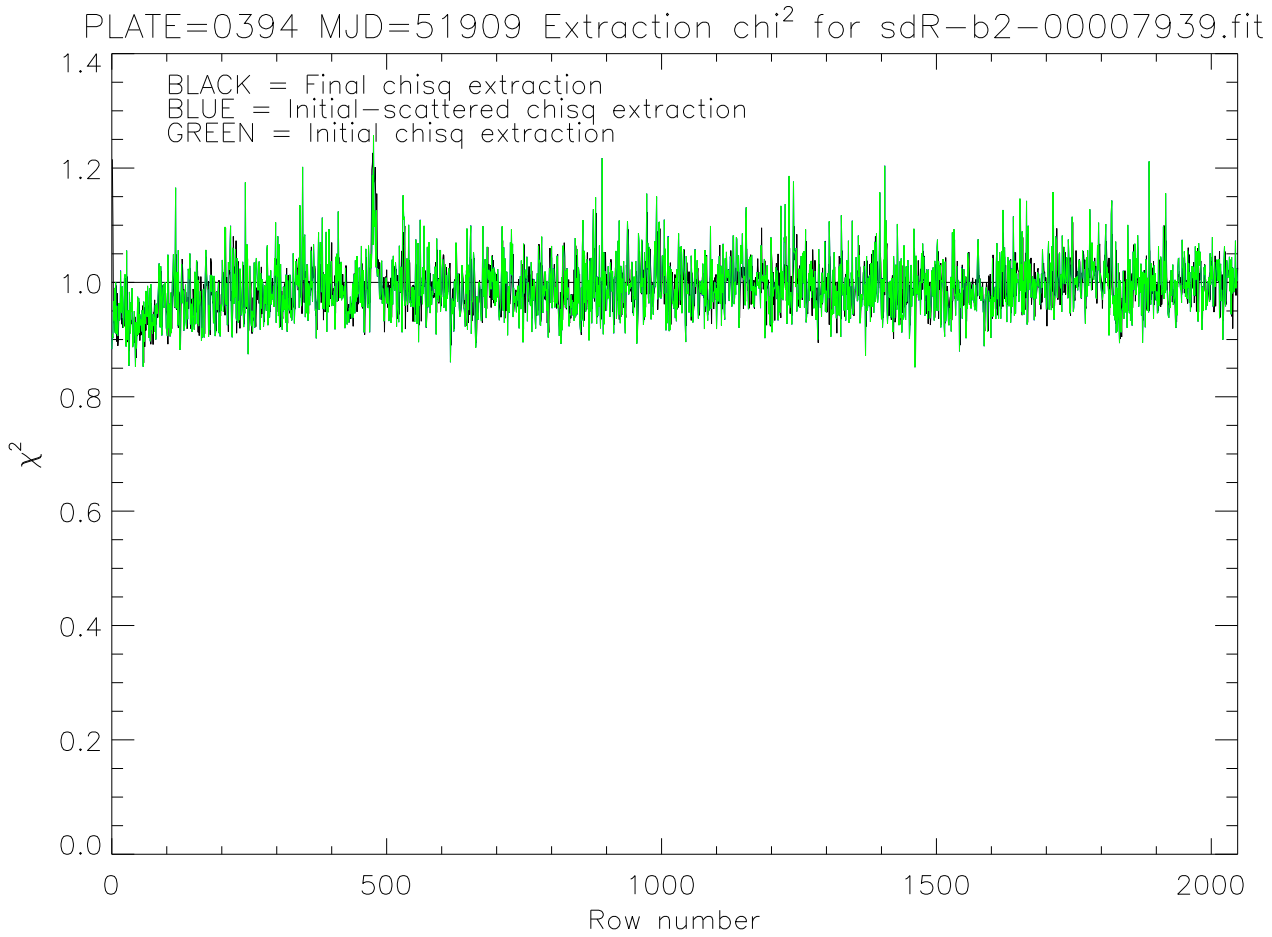

PLATE=0394 MJD=51909 Fiber-Flats for sdR-b2-00007941.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.401
Max value = 1.250
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Thu Feb 28 05:06:03 2008

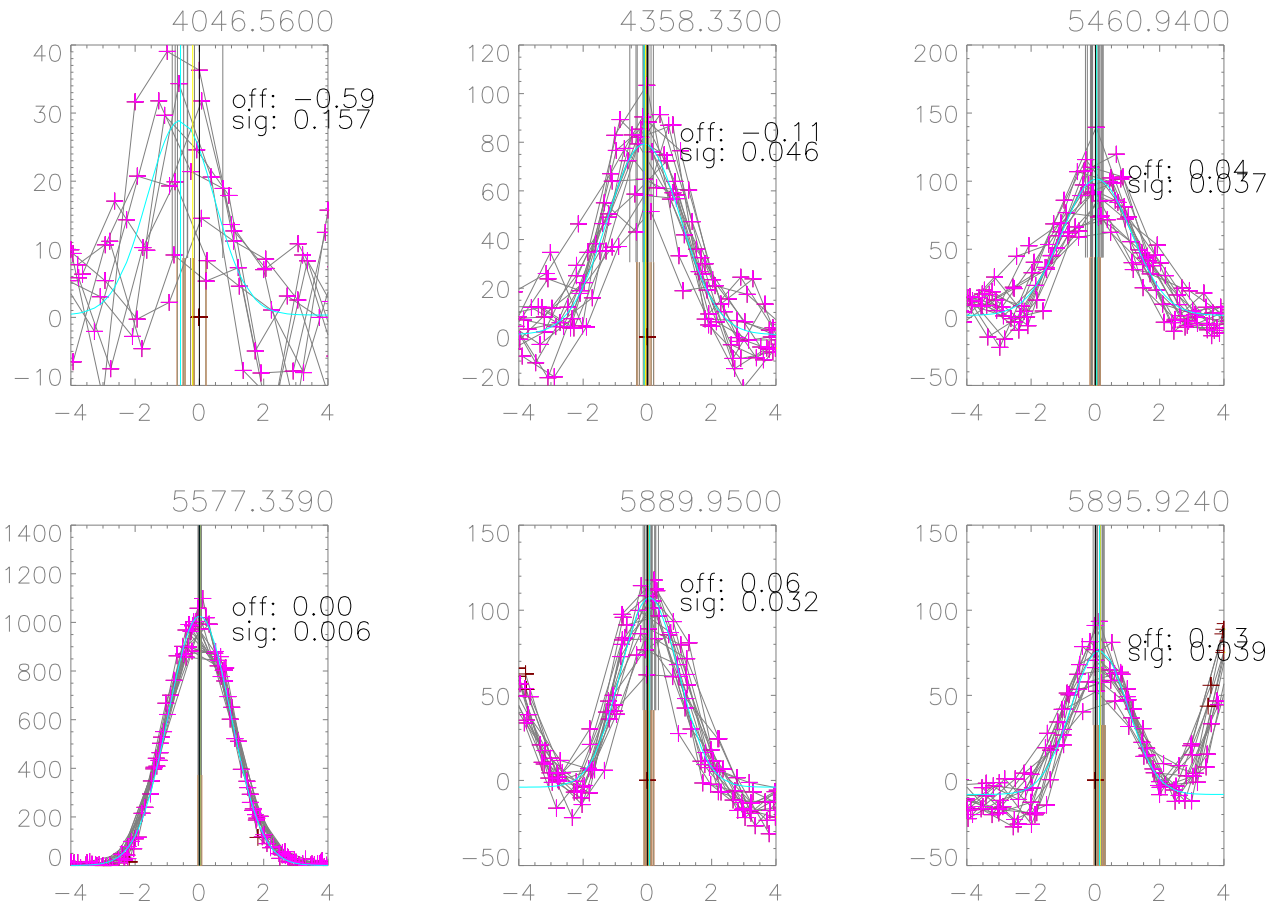

PLATE=0394 MJD=51909 Scattered Light before halo removal on sdR−b2−00007939.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
3.05
2.59
2.14
0
2.14
2.14
2.59
2.14
2.14
2.59
2.14
2.14
2.59

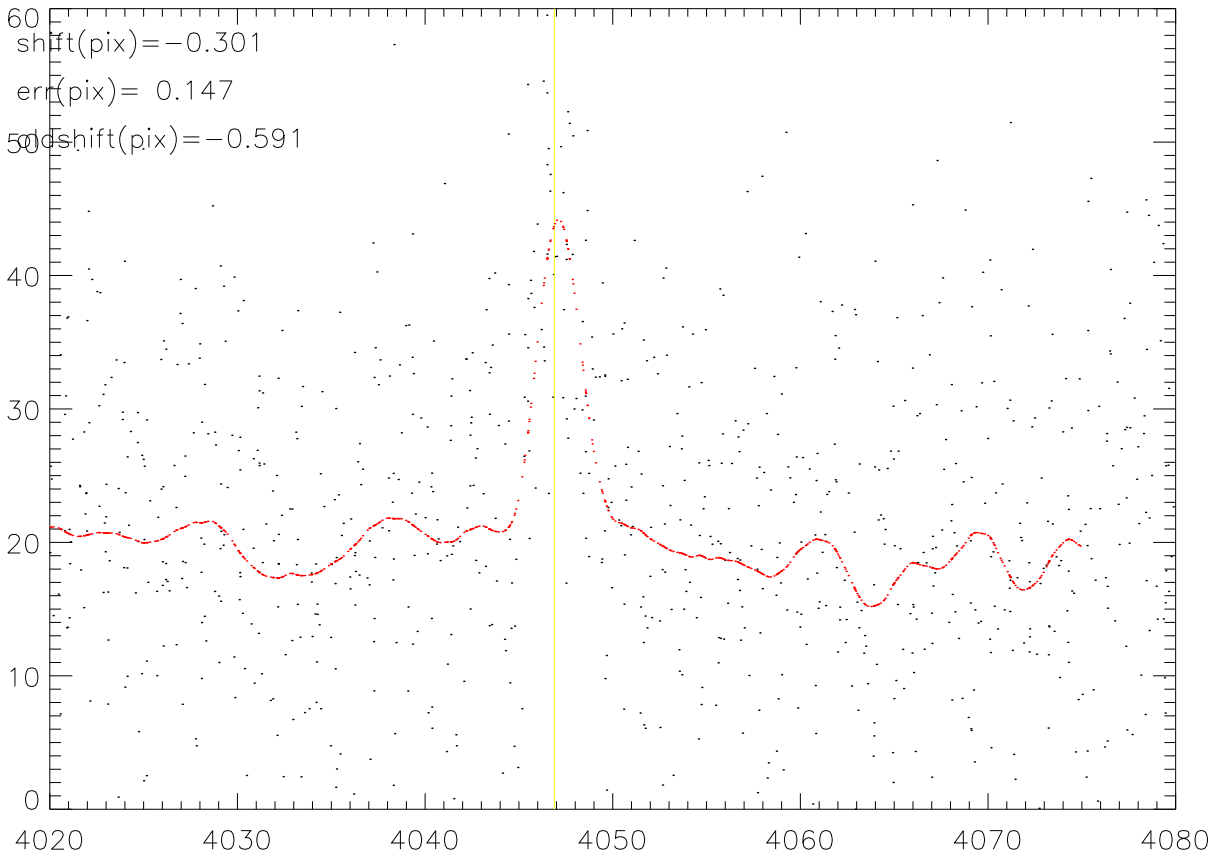

PLATE=0394 MJD=51909 Scattered Light before halo removal on sdR-b2-00007939.f
Brightness [electrons/pix]
0
1
2
3
4
Error bars denote full range
Min value = 2.071
Max value = 2.856
4000
4500
5000
5500
6000
λ [A]
Thu Feb 28 05:06:40 2008

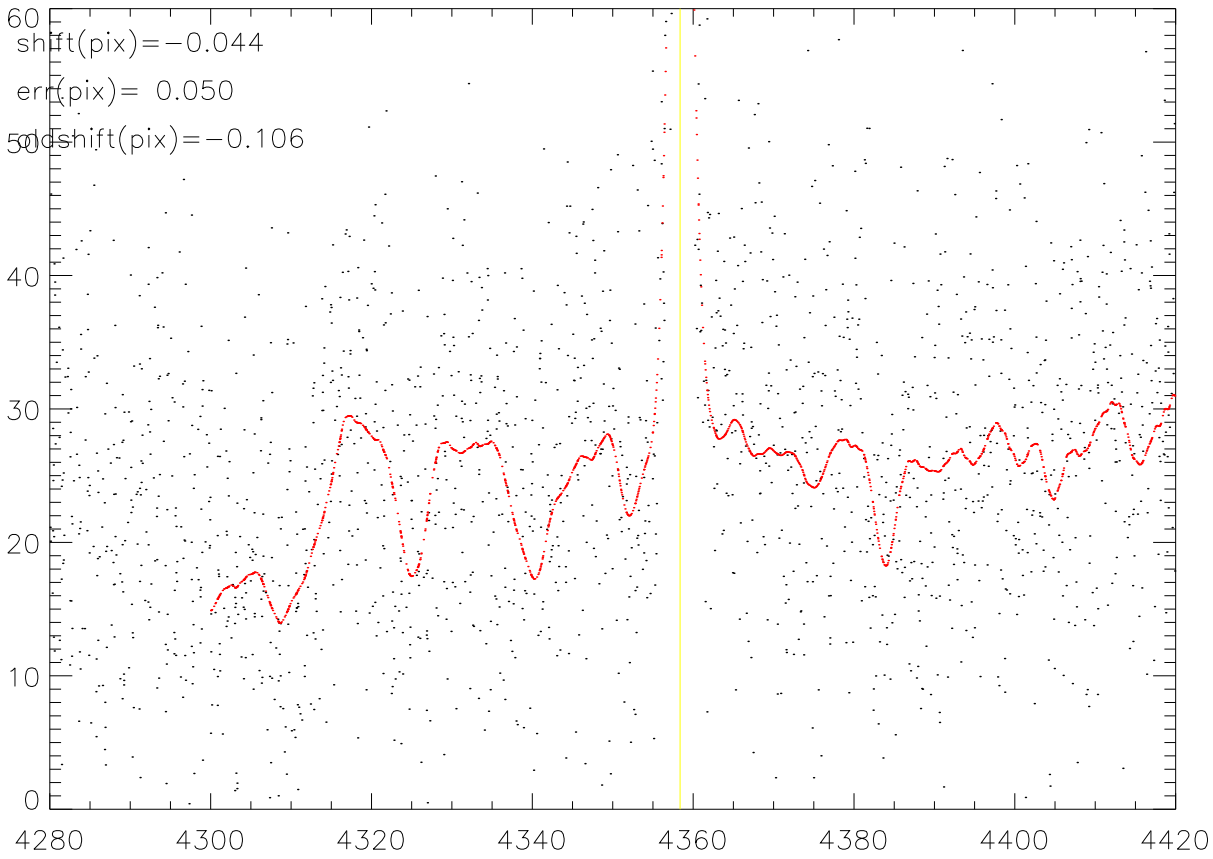

PLATE=0394 MJD=51909 Scattered Light on sdR-b2-00007939.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
2.09
2.09
2.09
1.64
1.64
1.64
1.64
2.09
2.09
2.09
1.64

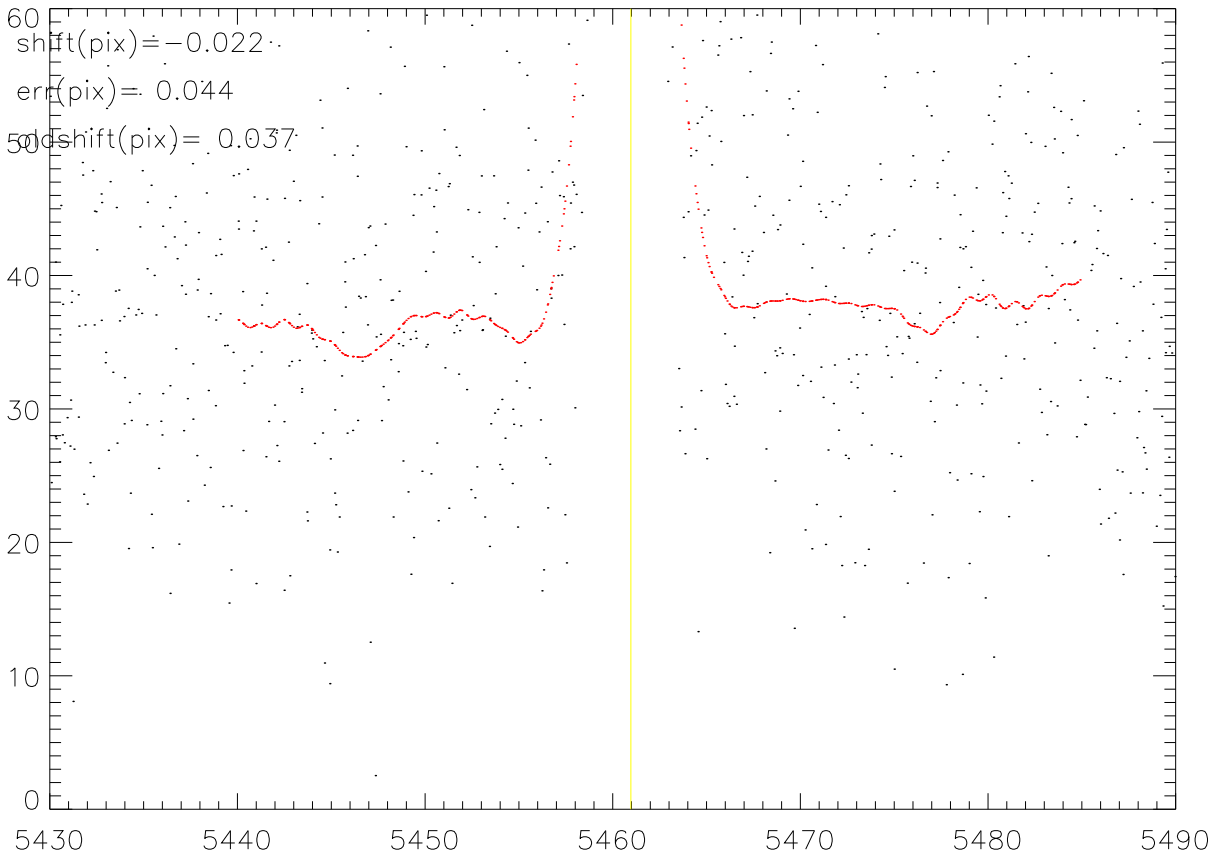

PLATE=0394 MJD=51909 Scattered Light on sdR-b2-00007939.fit
Brightness [electrons/pix]
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Error bars denote full range
Min value = 1.578
Max value = 2.278
4000
4500
5000
5500
6000
λ [A]
Thu Feb 28 05:08:36 2008

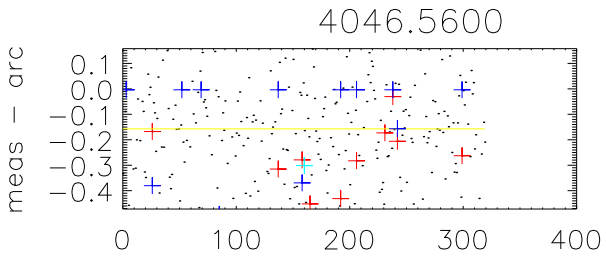

PLATE=0394 MJD=51909 Extraction chi^2 for sdR-b2-00007939.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
0
500
1000
1500
2000

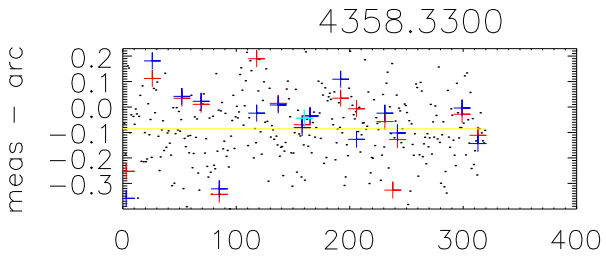

4046.5600
off: −0.59
sig: 0.157
4358.3300
off: −0.11
sig: 0.046
5460.9400
off: 0.04
sig: 0.037
5577.3390
off: 0.00
sig: 0.006
5889.9500
off: 0.06
sig: 0.032
5895.9240
off: 0.13
sig: 0.039

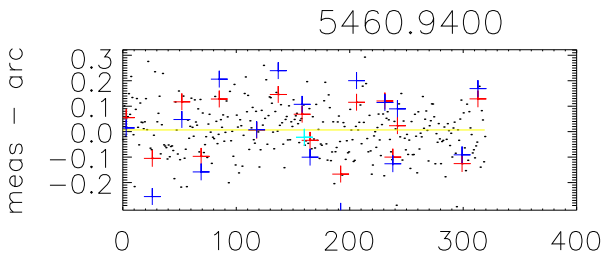

shift(pix)=−0.301
err(pix)= 0.147
oldshift(pix)=−0.591
60
50
40
30
20
10
0
4020
4030
4040
4050
4060
4070
4080

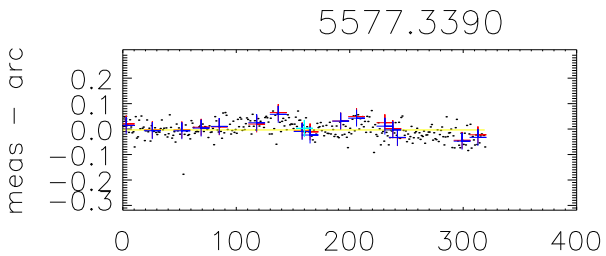

shift(pix)=−0.044
err(pix)= 0.050
oldshift(pix)=−0.106
60
50
40
30
20
10
0
4280
4300
4320
4340
4360
4380
4400
4420

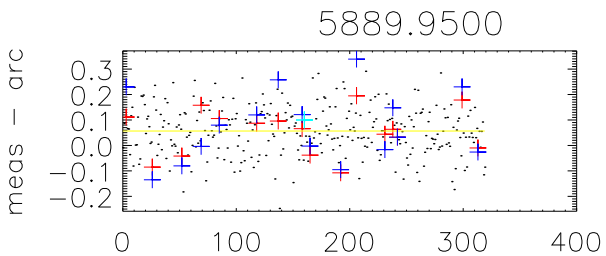

shift(pix)=−0.022
err(pix)= 0.044
oldshift(pix)= 0.037
60
50
40
30
20
10
0
5430
5440
5450
5460
5470
5480
5490

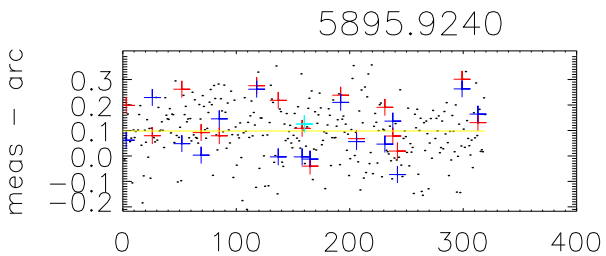

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

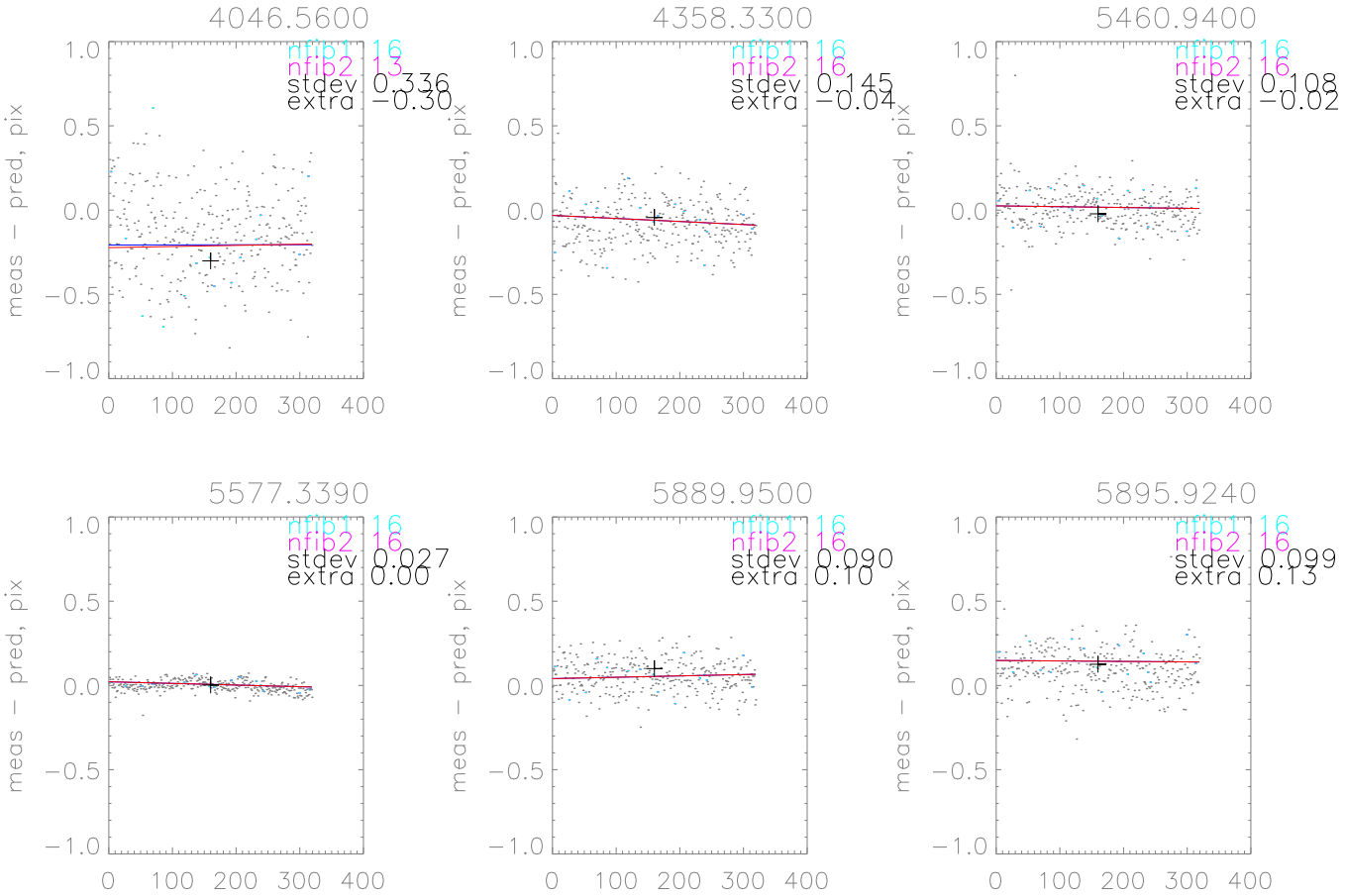

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

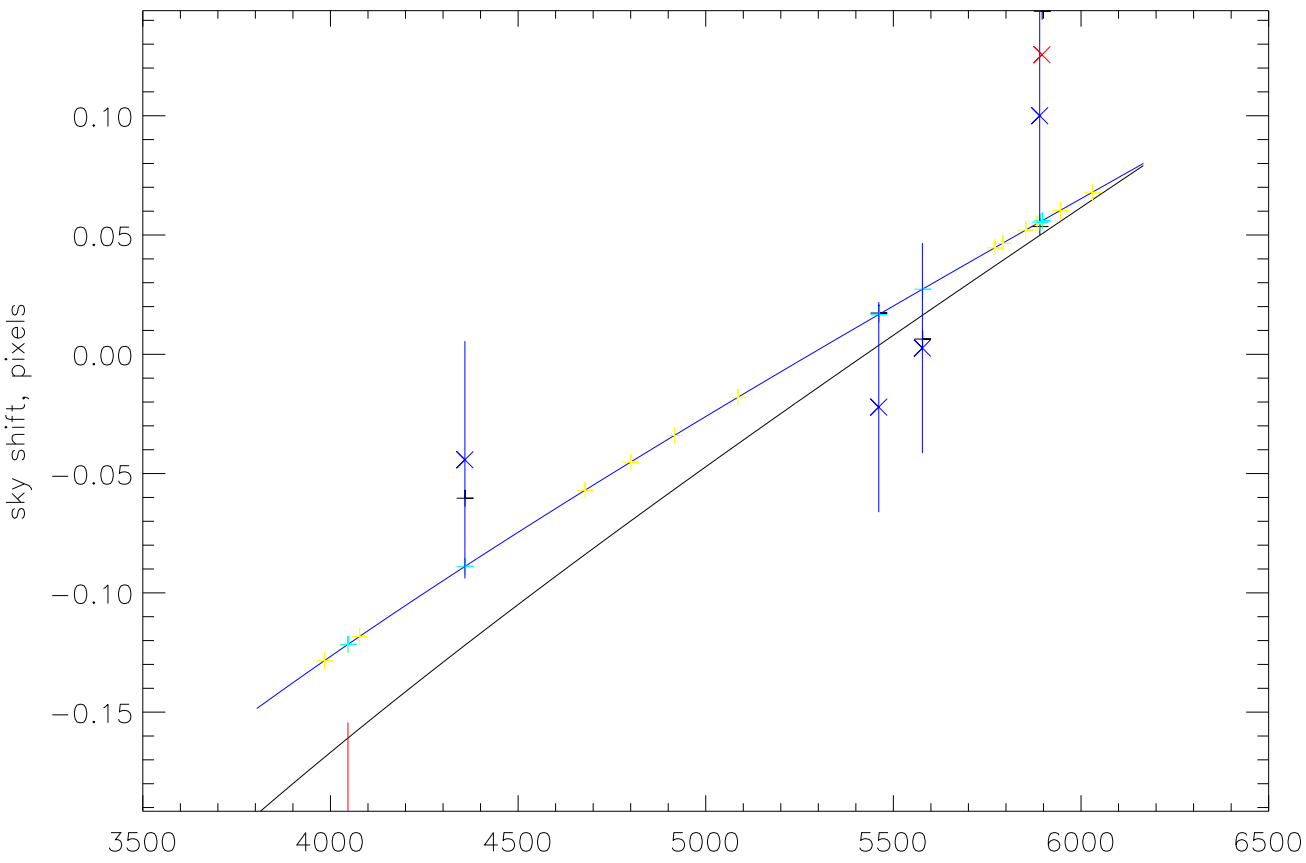

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

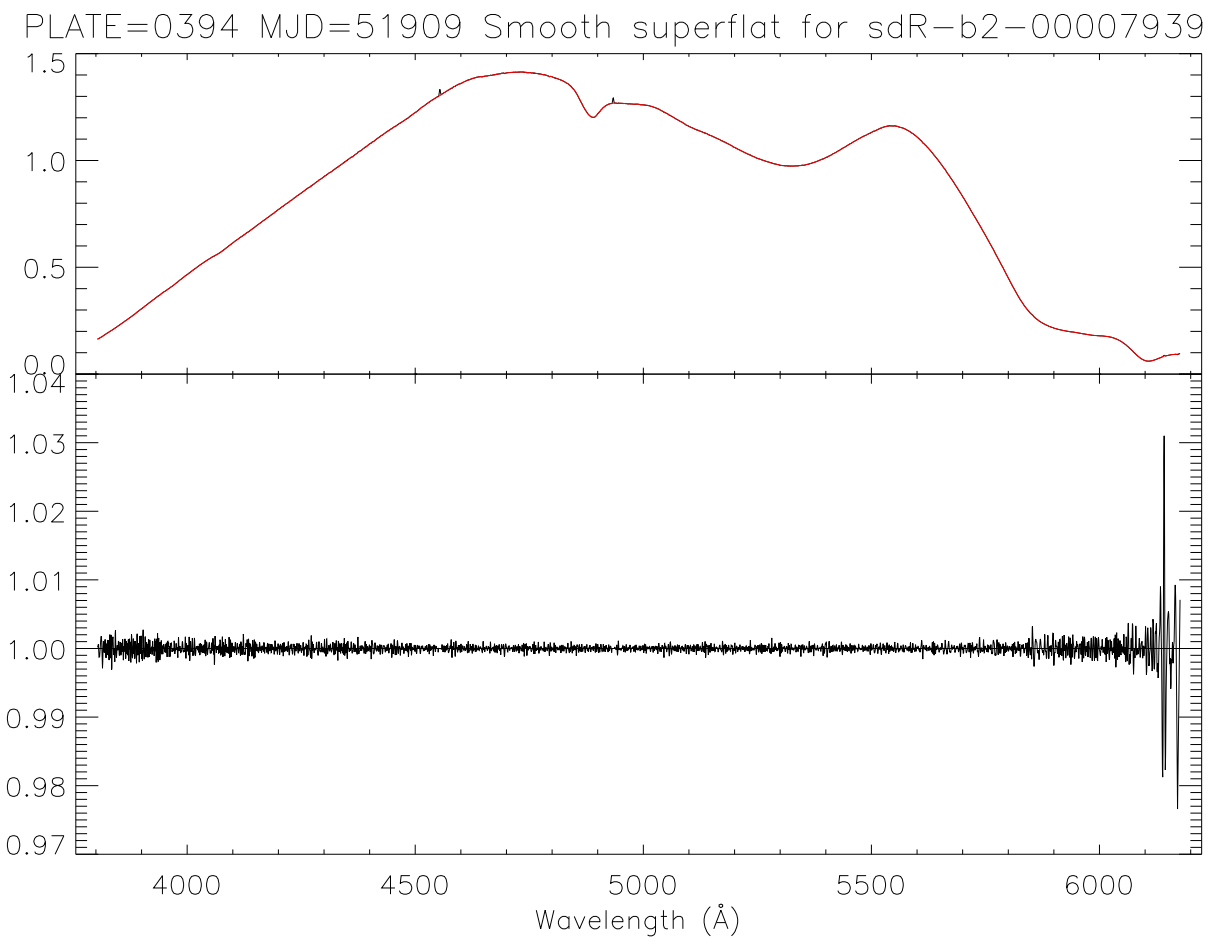

5889.9500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

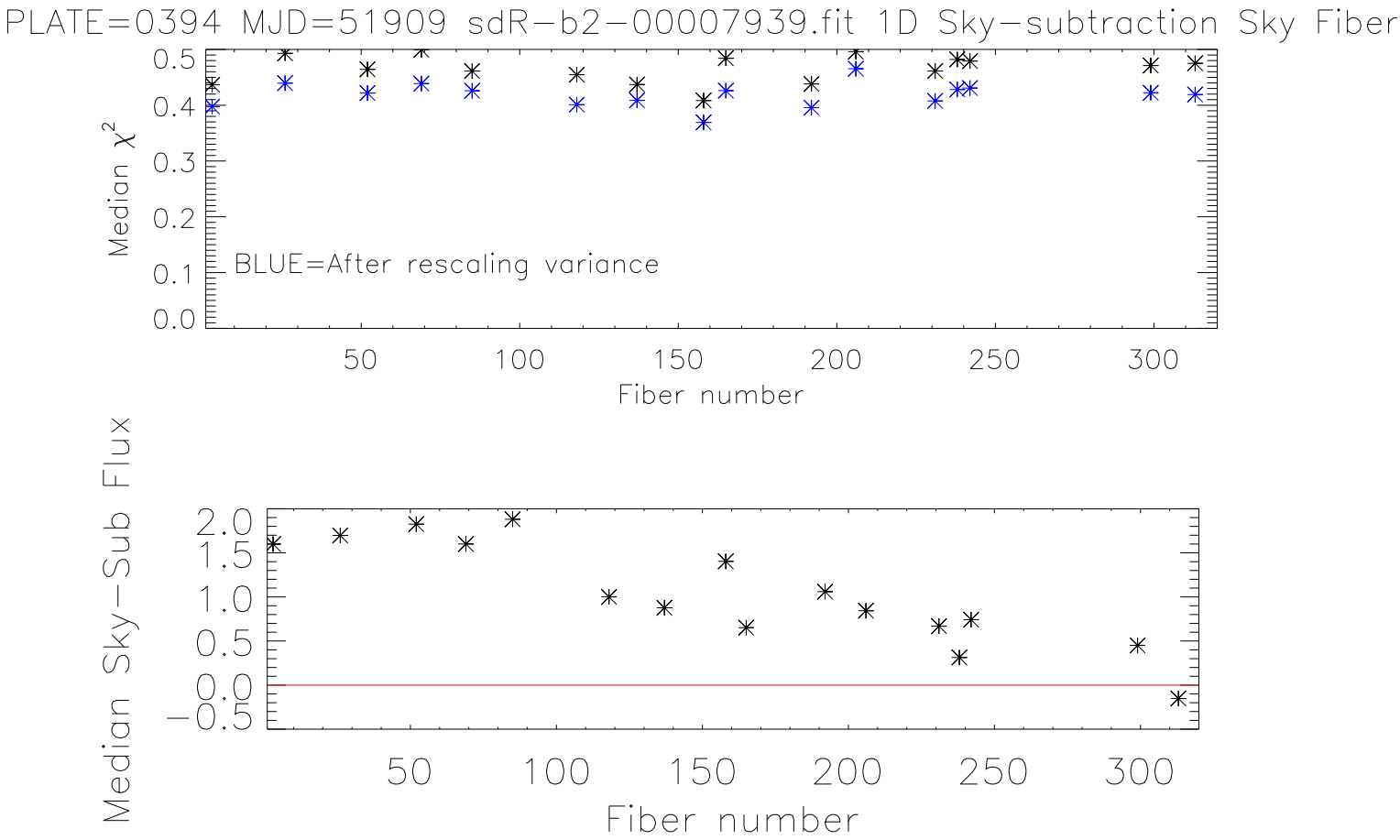

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

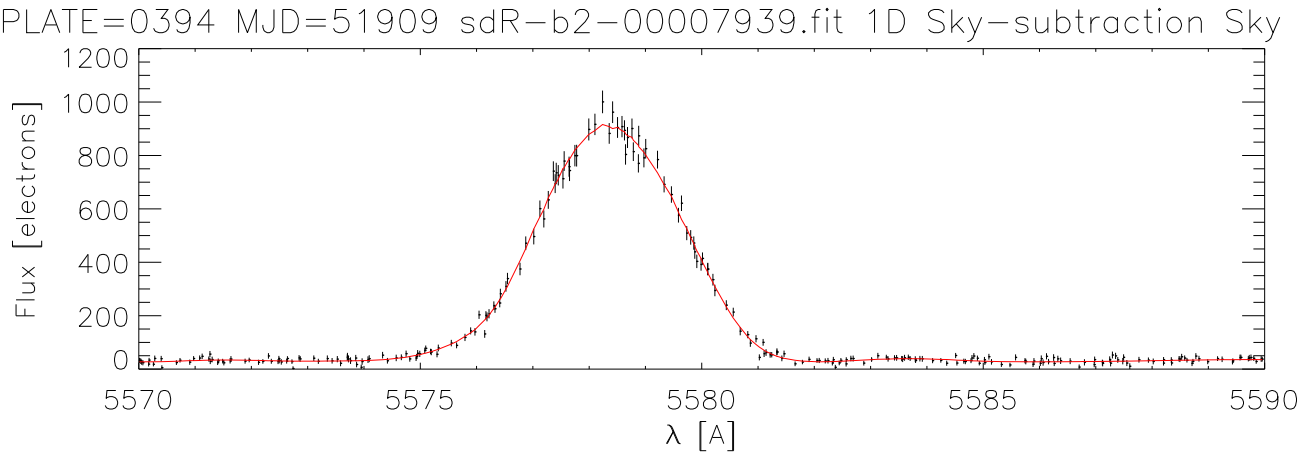

4046.5600
nfib1 16
nfib2 13
stdev 0.336
extra −0.30
4358.3300
nfib1 16
nfib2 16
stdev 0.145
extra −0.04
5460.9400
nfib1 16
nfib2 16
stdev 0.108
extra −0.02
5577.3390
nfib1 16
nfib2 16
stdev 0.027
extra 0.00
5889.9500
nfib1 16
nfib2 16
stdev 0.090
extra 0.10
5895.9240
nfib1 16
nfib2 16
stdev 0.099
extra 0.13
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

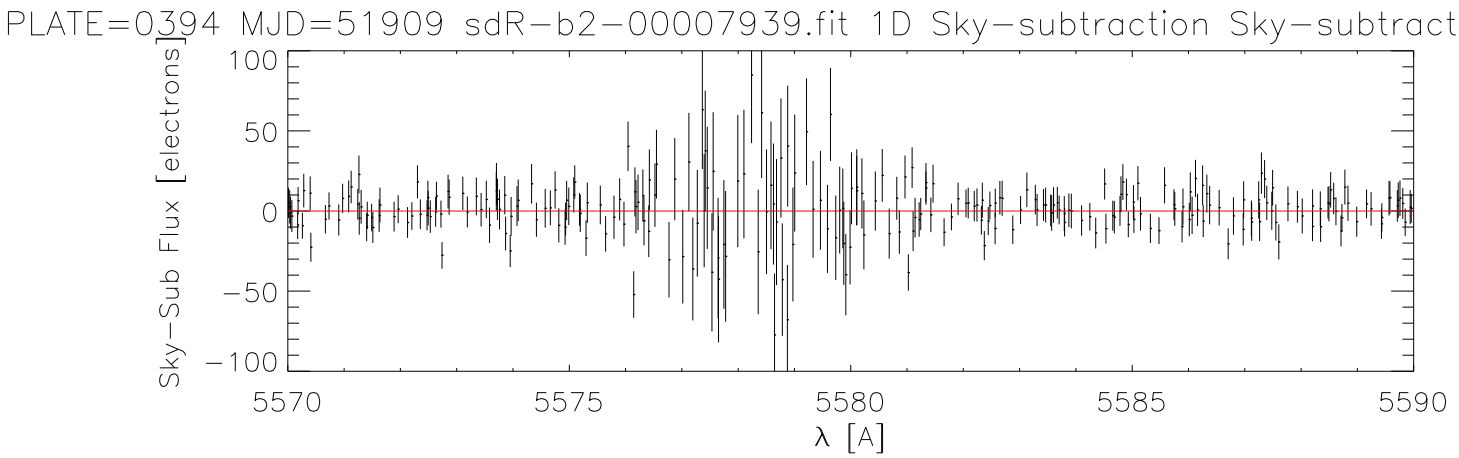

sky shift, pixels
0.10
0.05
0.00
−0.05
−0.10
−0.15
3500
4000
4500
5000
5500
6000
6500

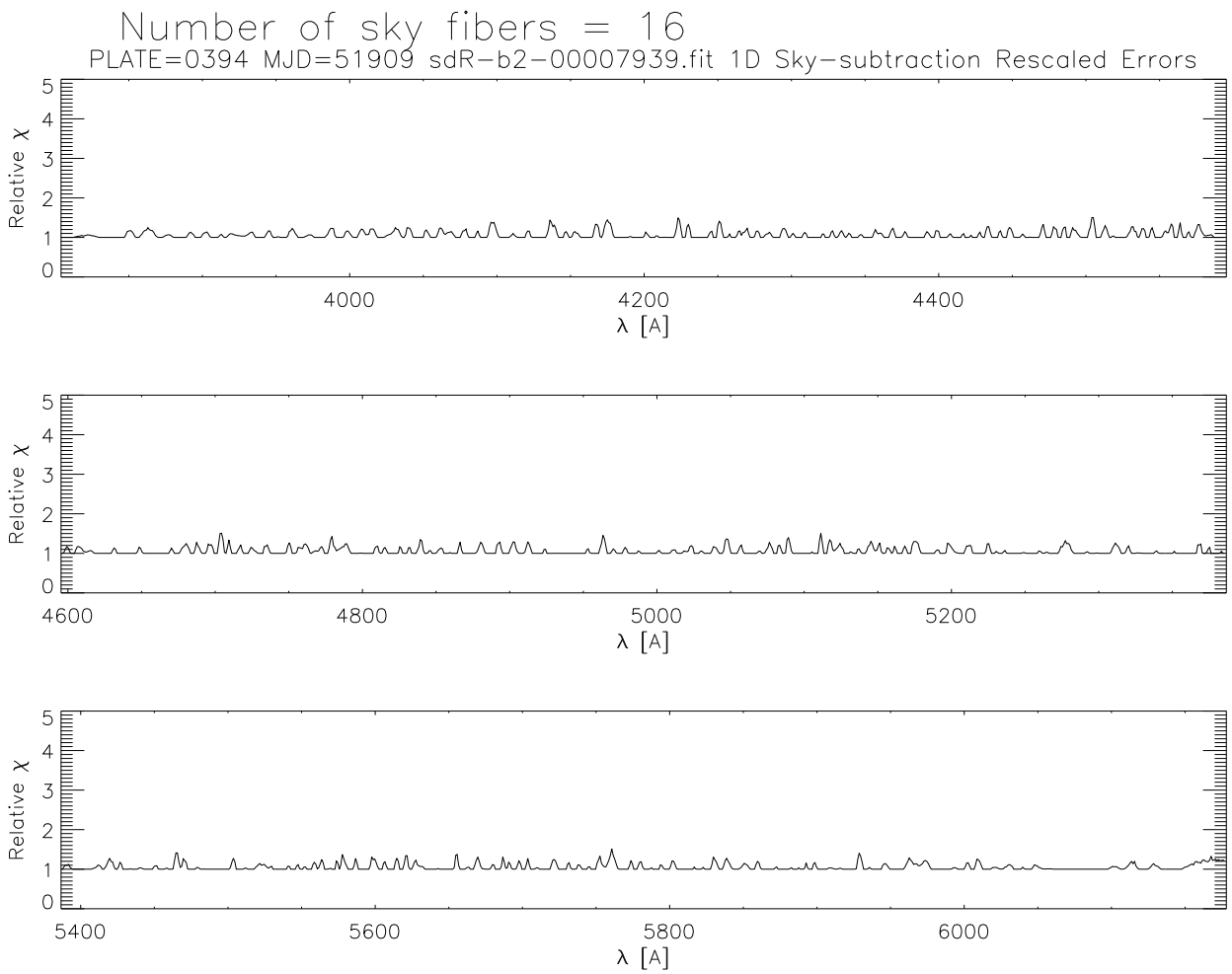
es= 0.0000

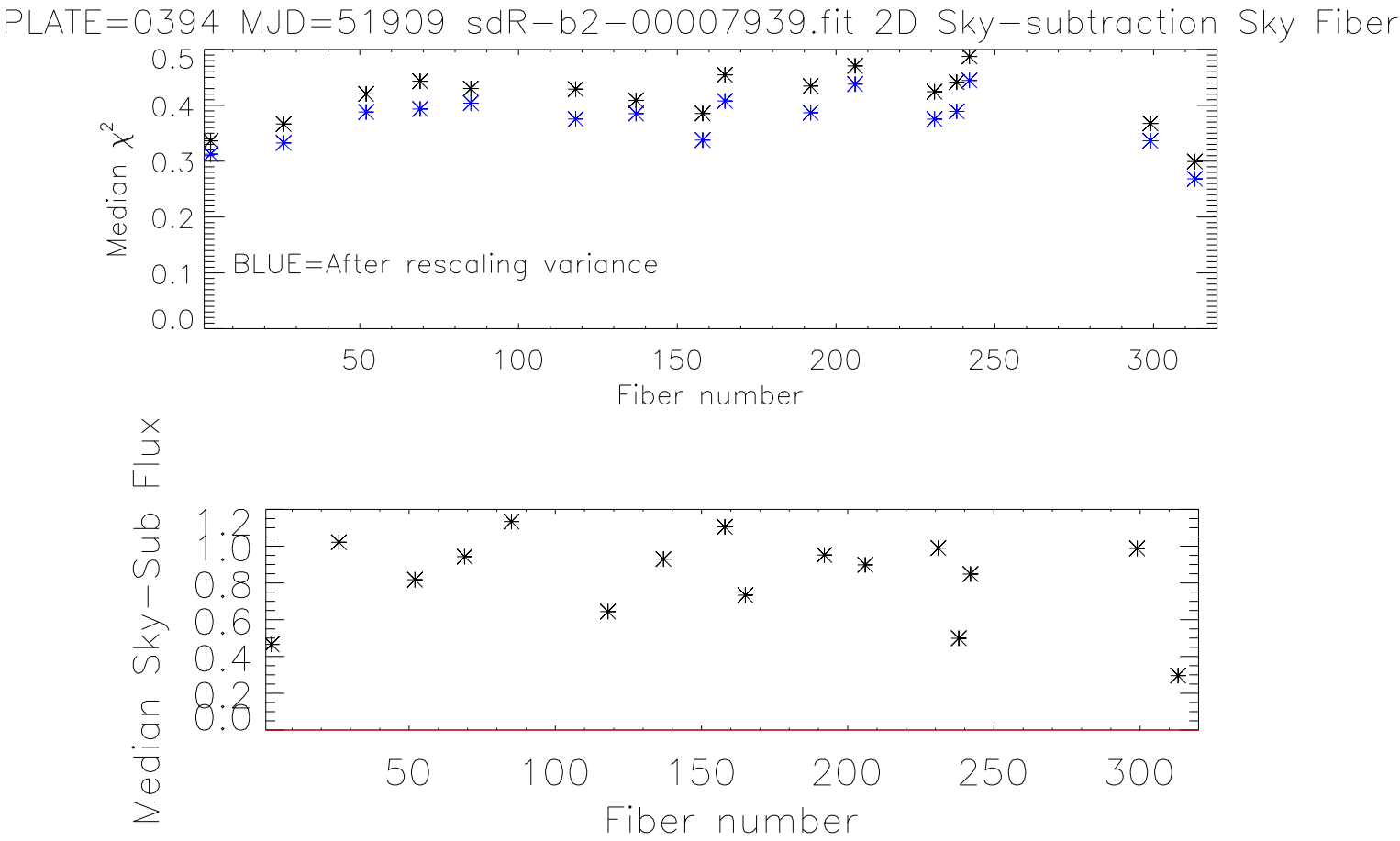

PLATE=0394 MJD=51909 Smooth superflat for sdR-b2-00007939.fit
1.5
1.0
0.5
0.0
1.04
1.03
1.02
1.01
1.00
0.99
0.98
0.97
4000
4500
5000
5500
6000
Wavelength (Å)

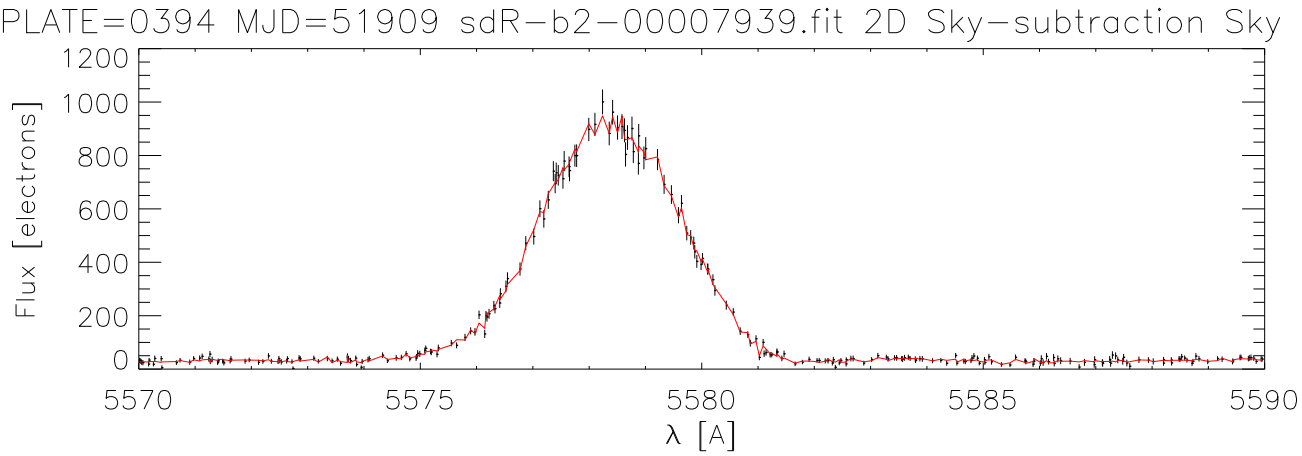

PLATE=0394 MJD=51909 sdR-b2-00007939.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

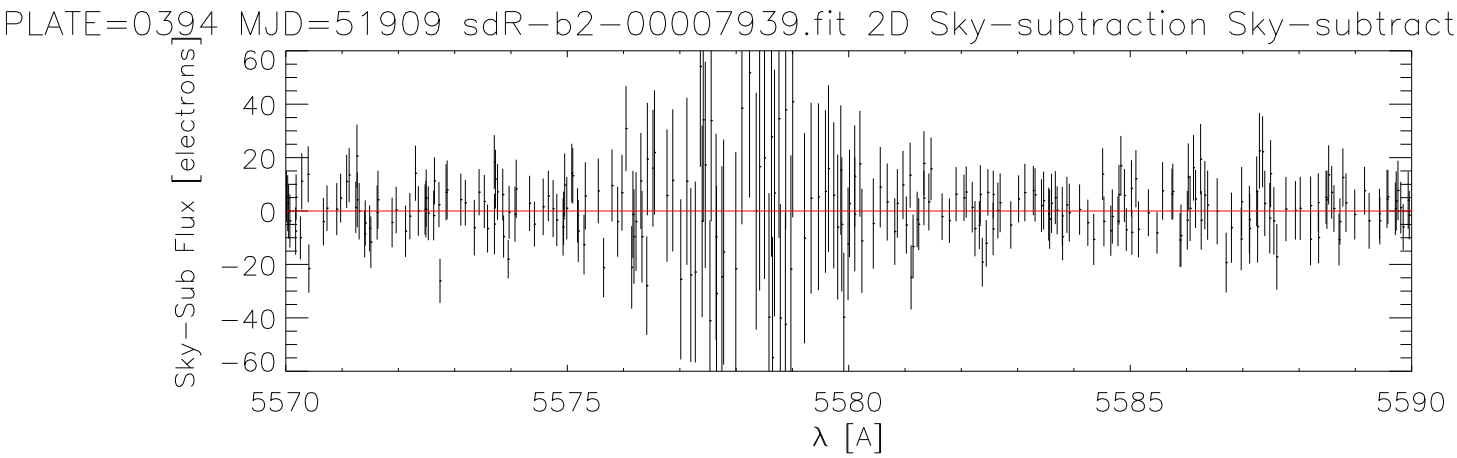

PLATE=0394 MJD=51909 sdR-b2-00007939.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1200
1000
800
600
400
200
0
5570
5575
5580
5585
5590
λ [A]

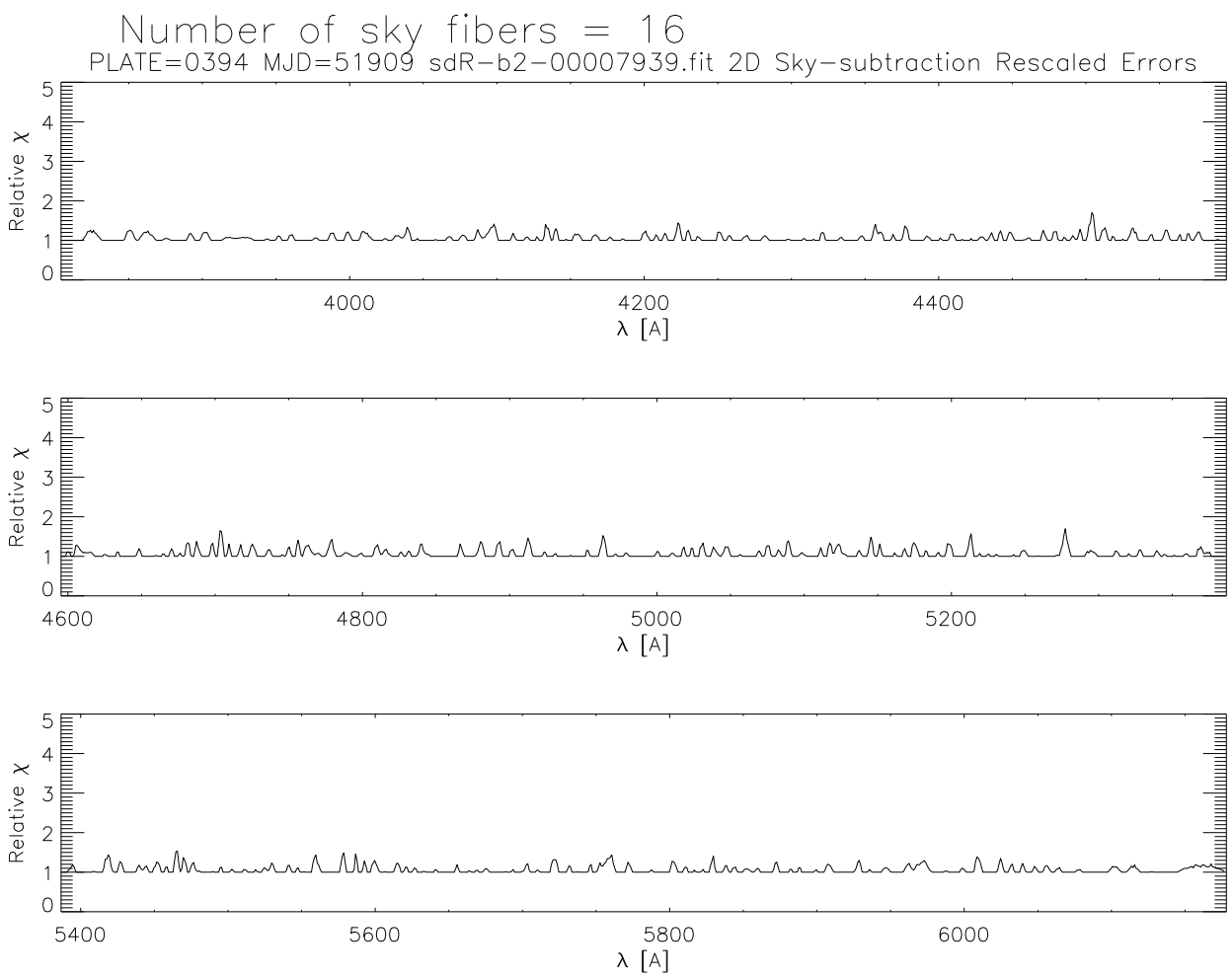

PLATE=0394 MJD=51909 sdR-b2-00007939.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
5570
5575
5580
5585
5590
λ [A]

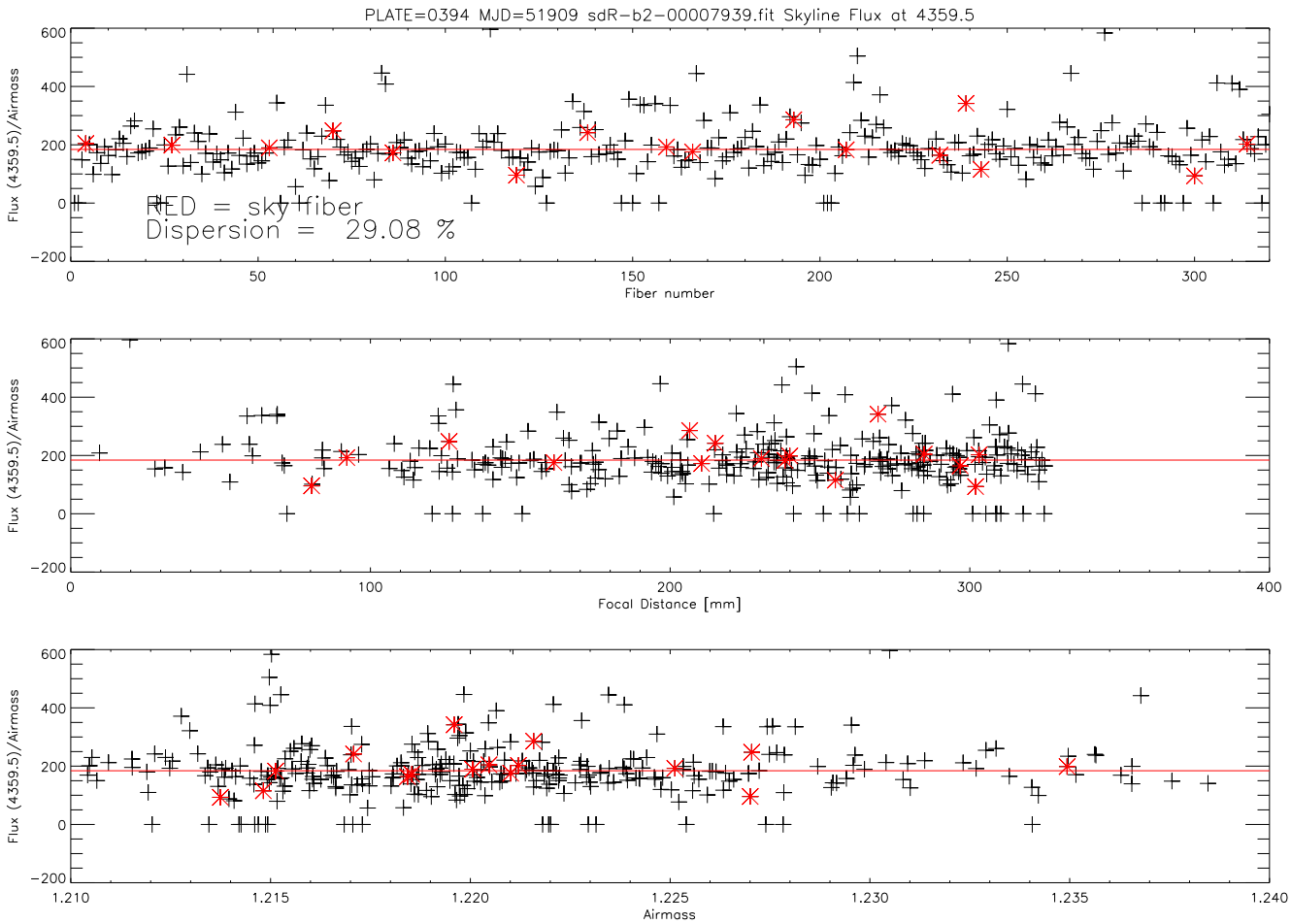

Number of sky fibers = 16
PLATE=0394 MJD=51909 sdR-b2-00007939.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

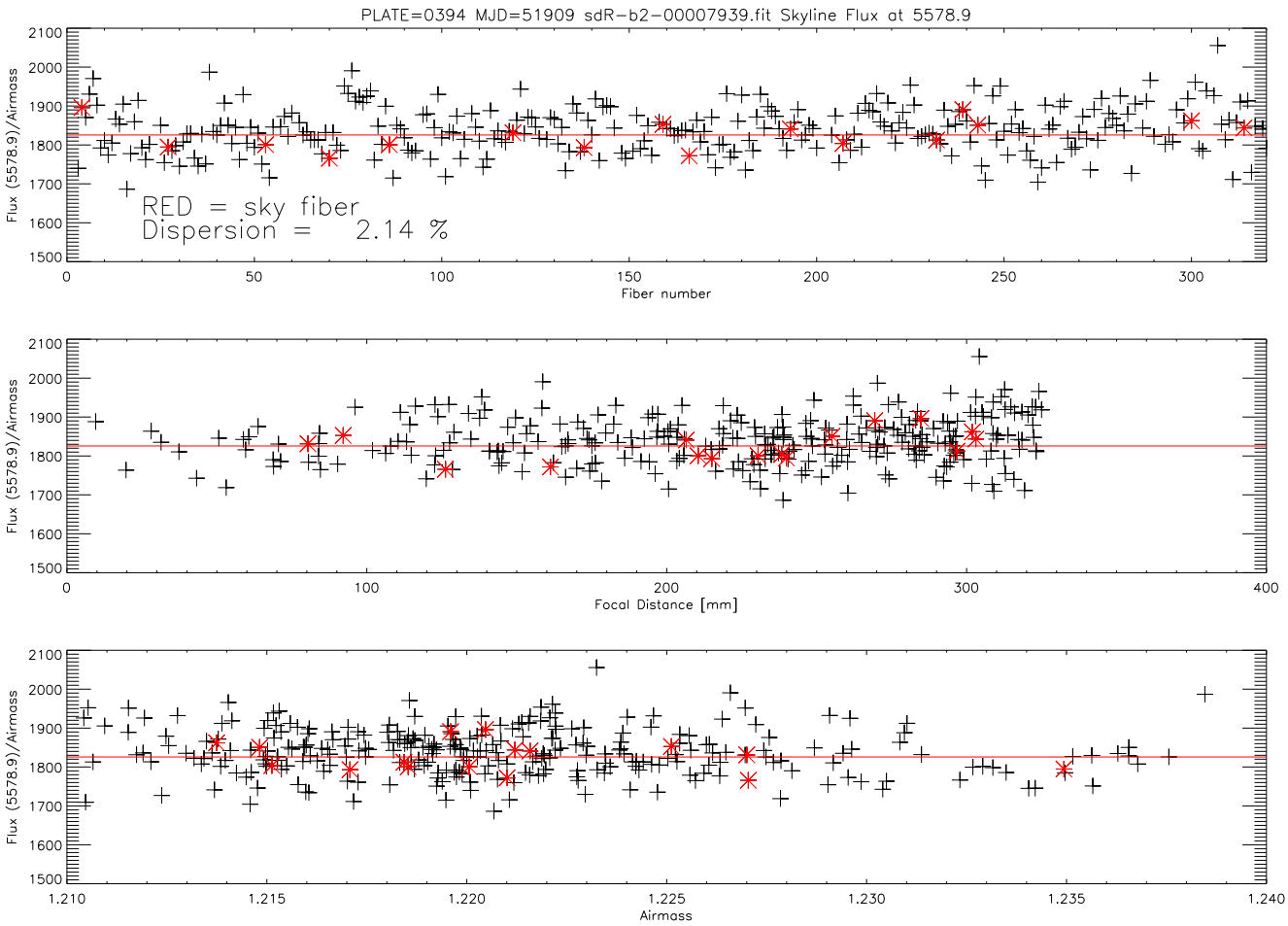

PLATE=0394 MJD=51909 sdR-b2-00007939.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

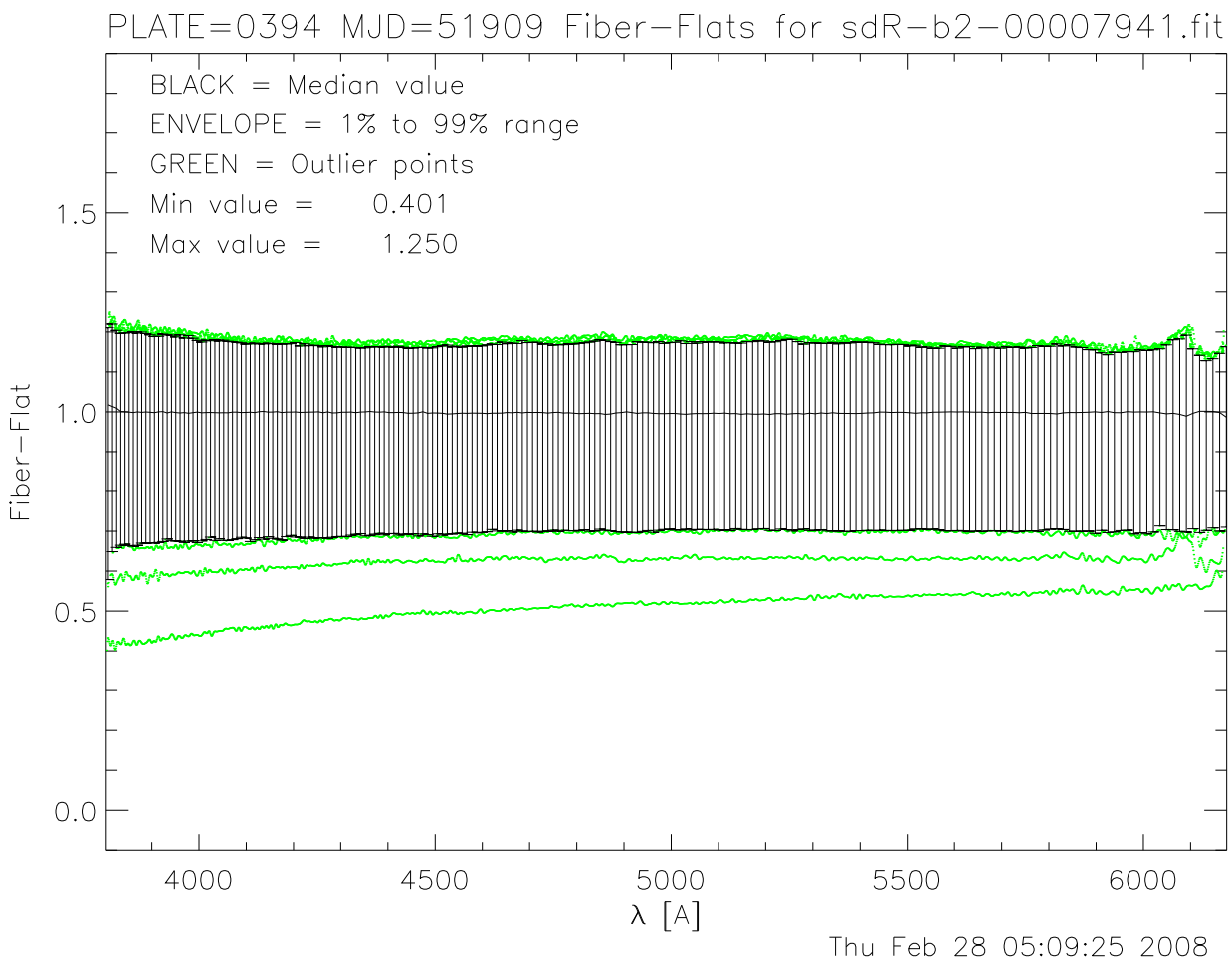

PLATE=0394 MJD=51909 sdR-b2-00007939.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1200
1000
800
600
400
200
0
5570
5575
5580
5585
5590
λ [A]

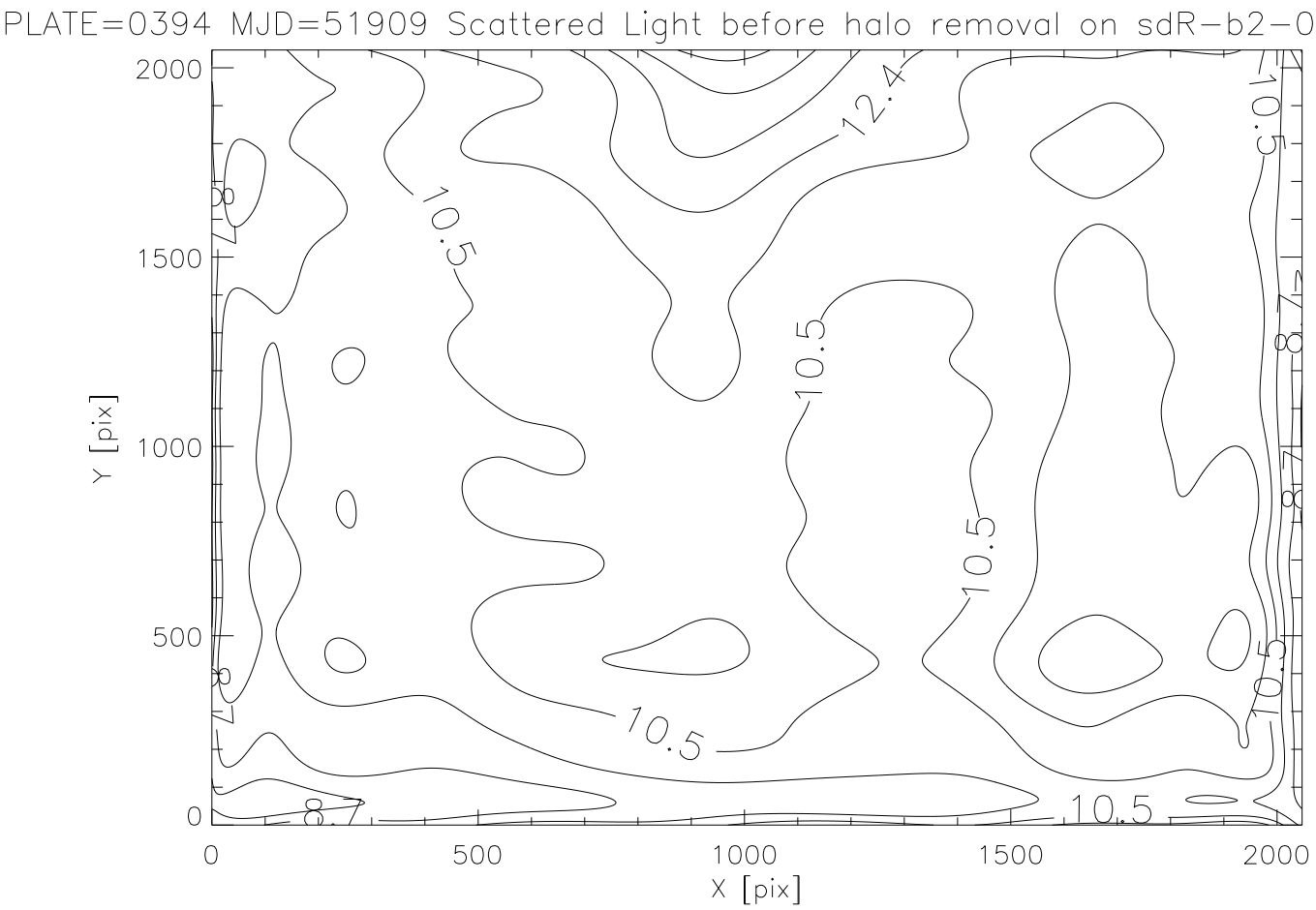

PLATE=0394 MJD=51909 sdR-b2-00007939.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
60
40
20
0
-20
-40
-60
5570
5575
5580
5585
5590
λ [A]

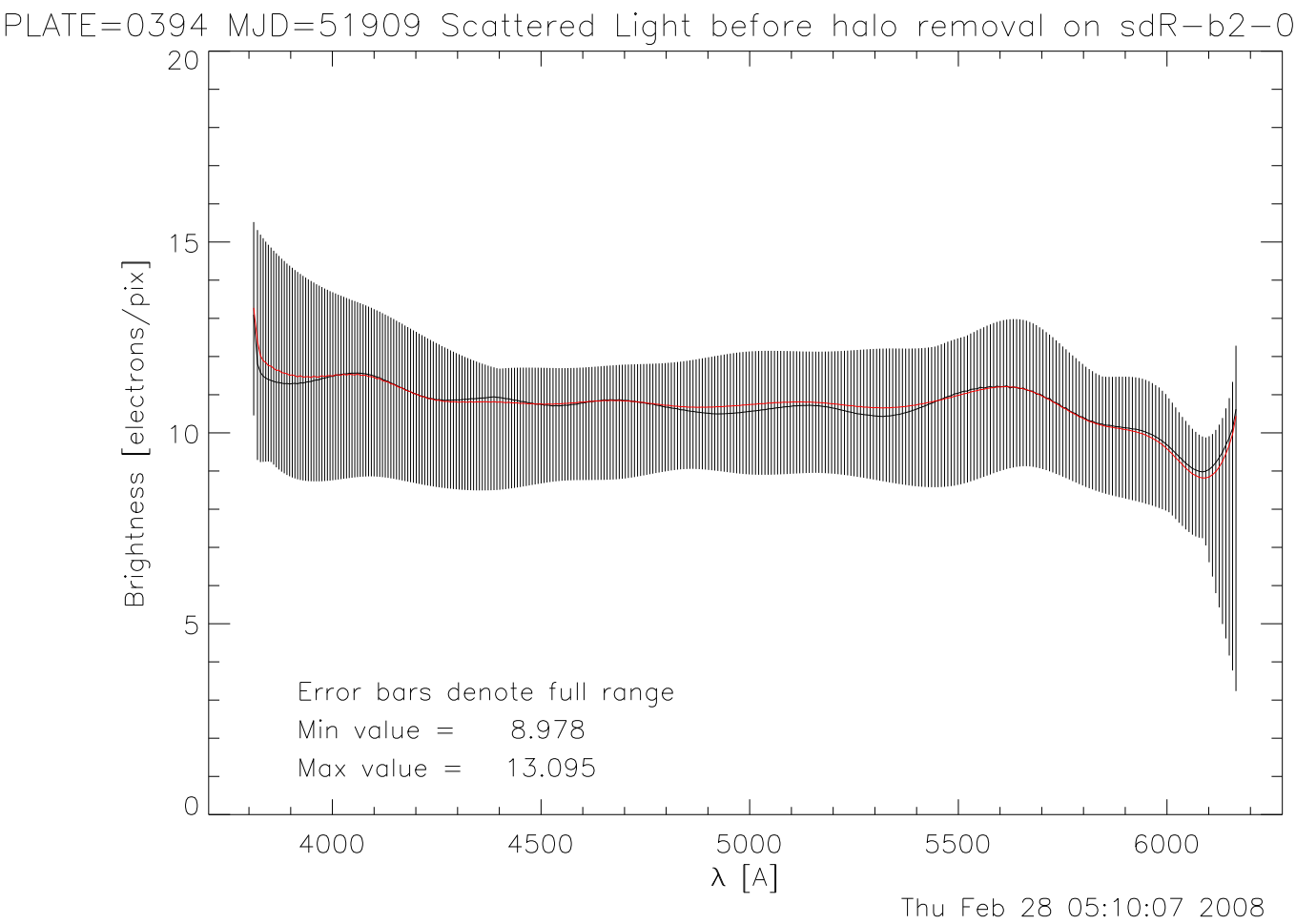

Number of sky fibers = 16
PLATE=0394 MJD=51909 sdR-b2-00007939.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

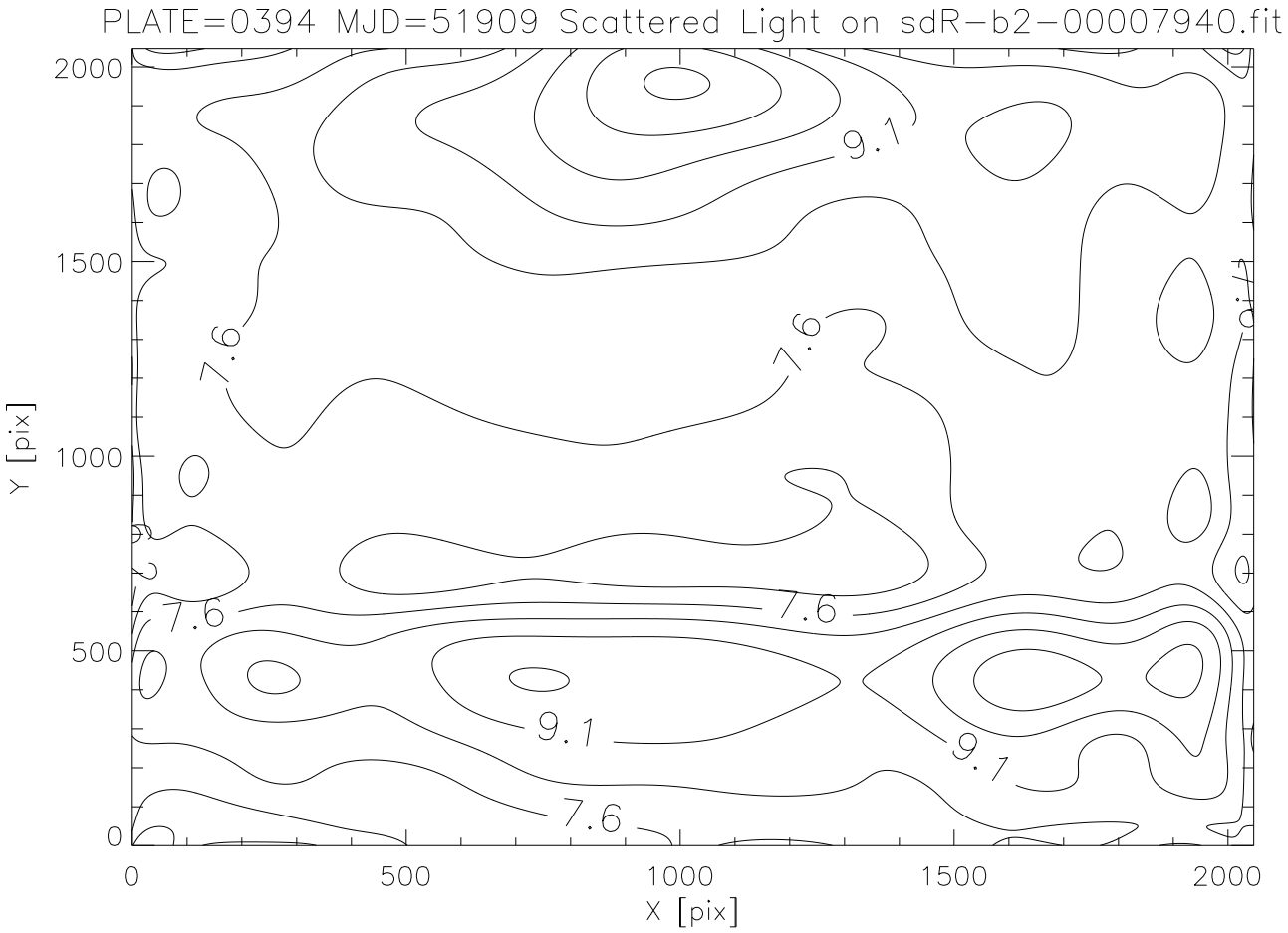

PLATE=0394 MJD=51909 sdR-b2-00007939.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 29.08 %
Fiber number
Focal Distance [mm]
Airmass

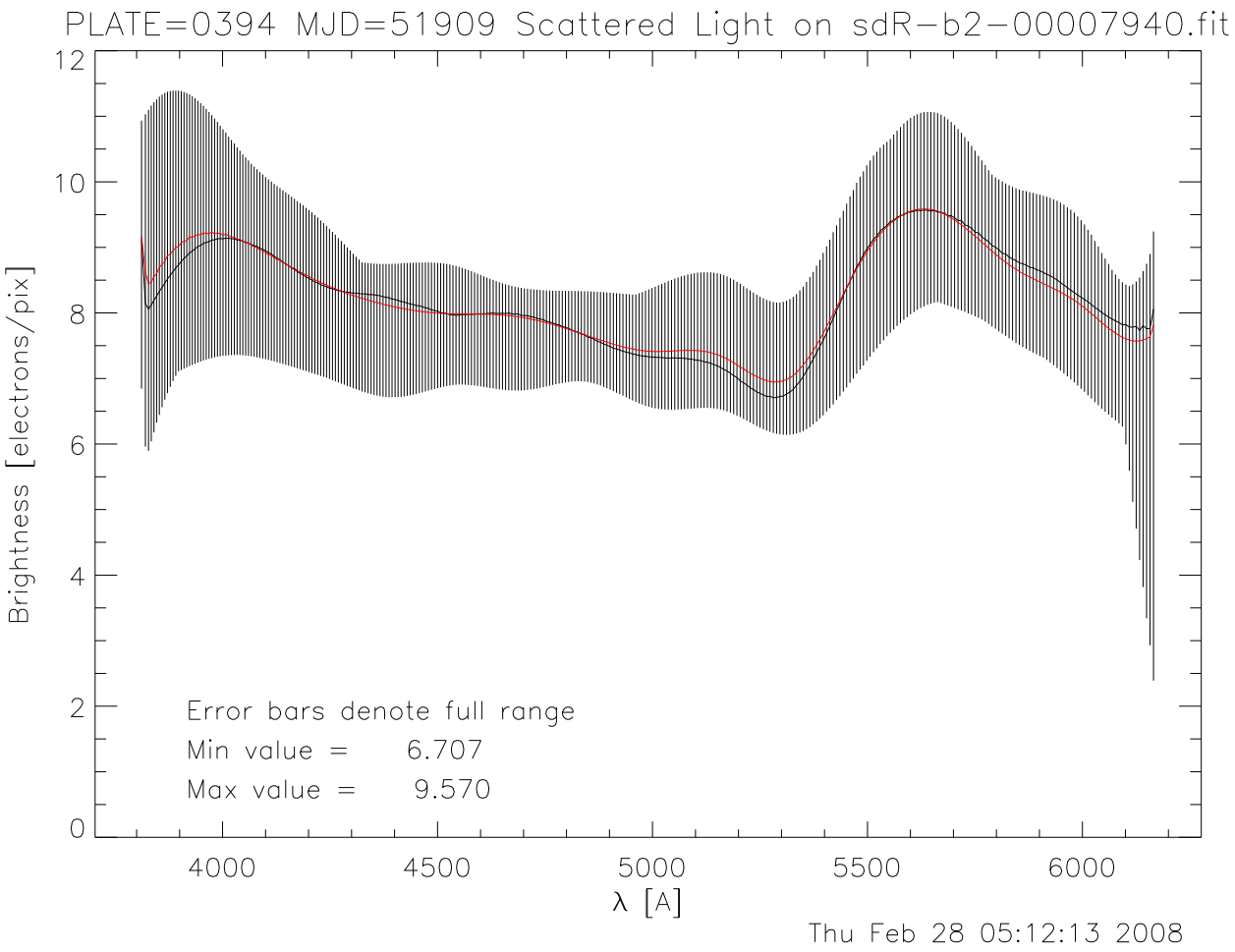

PLATE=0394 MJD=51909 sdR-b2-00007939.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.14 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

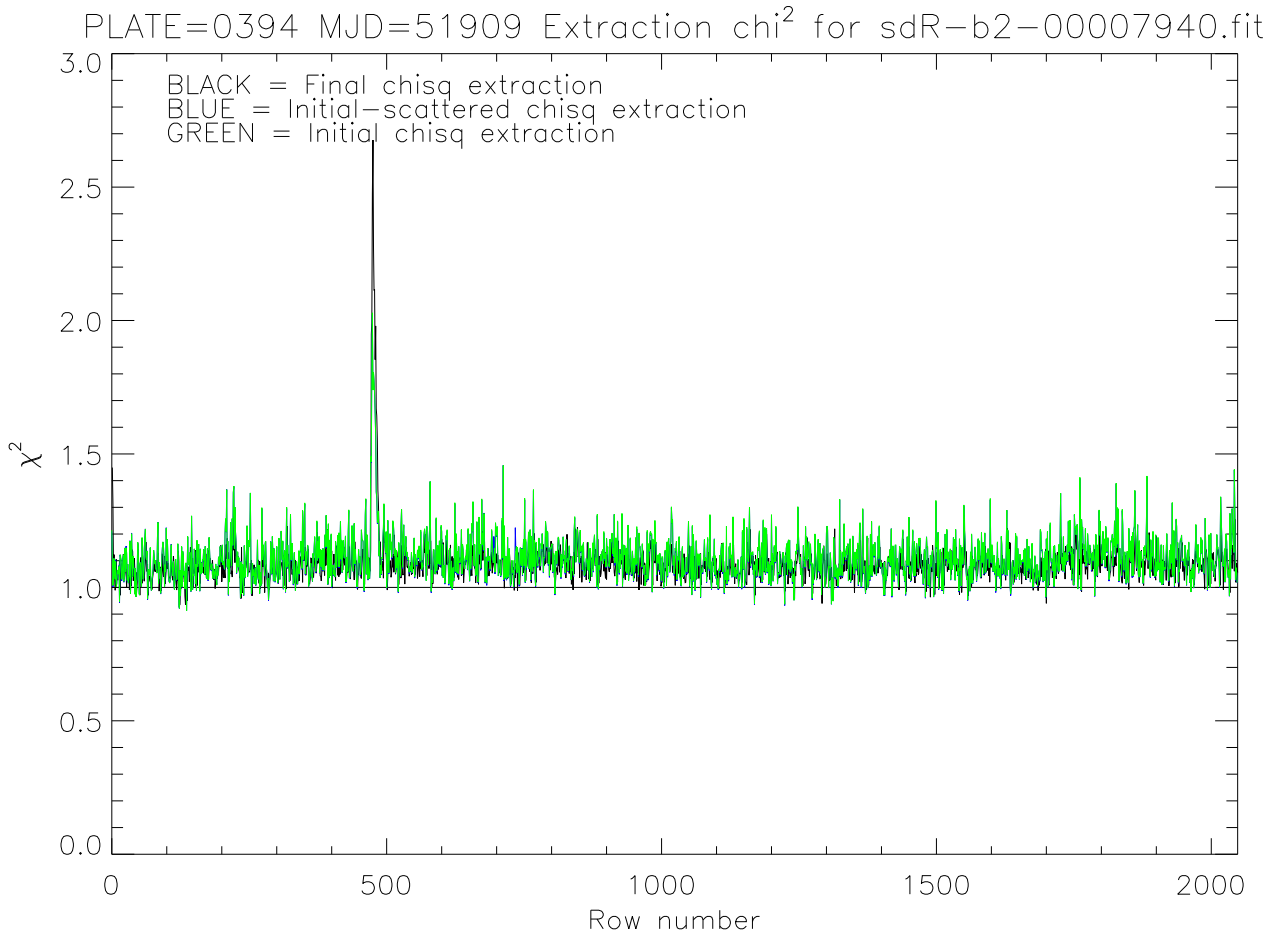

PLATE=0394 MJD=51909 Fiber-Flats for sdR-b2-00007941.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.401
Max value = 1.250
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Thu Feb 28 05:09:25 2008

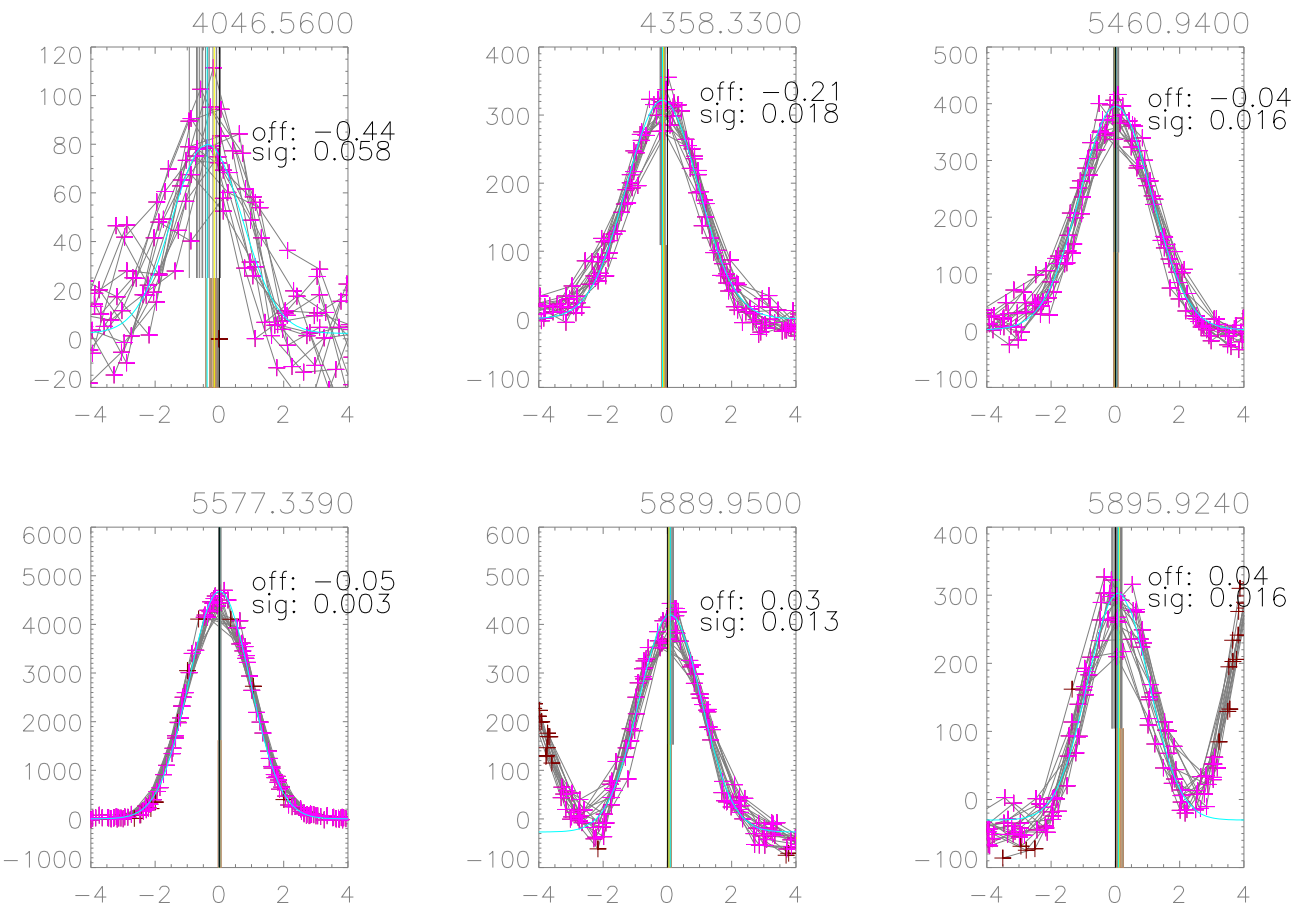

PLATE=0394 MJD=51909 Scattered Light before halo removal on sdR-b2-00007940.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
12.4
10.5
10.5
10.5
10.5
10.5
10.5
8.7
8.7
8.7
8.7

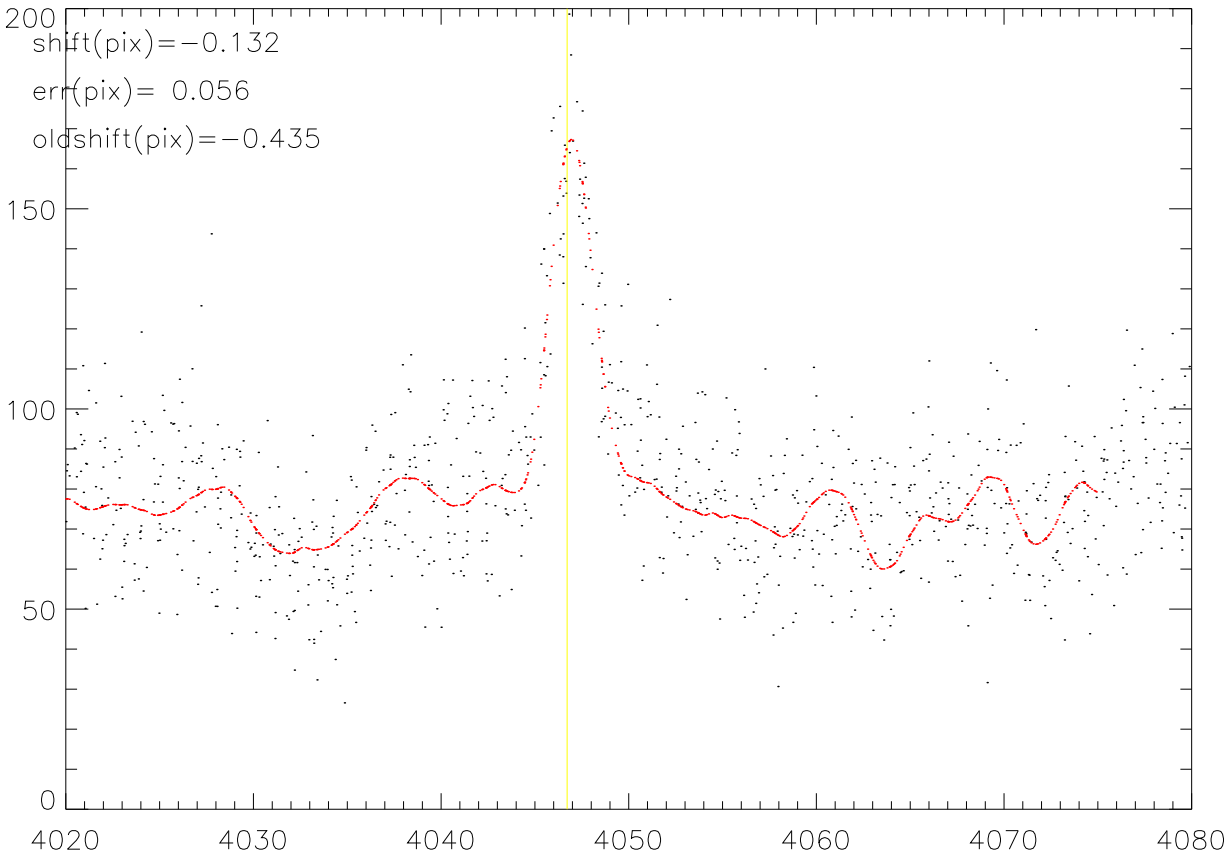

PLATE=0394 MJD=51909 Scattered Light before halo removal on sdR-b2-00007940.f
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 8.978
Max value = 13.095
4000
4500
5000
5500
6000
λ [A]
Thu Feb 28 05:10:07 2008

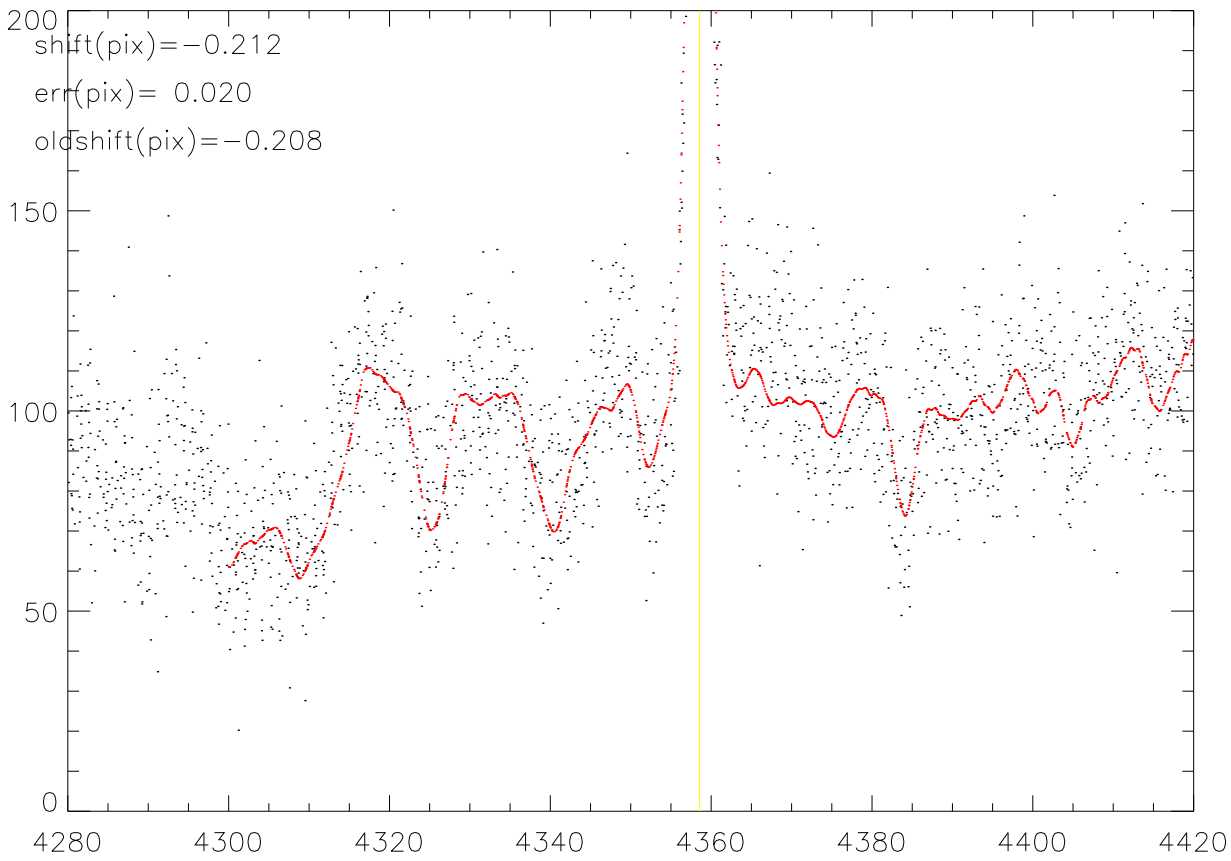

PLATE=0394 MJD=51909 Scattered Light on sdR-b2-00007940.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
9.1
7.6
7.6
7.6
9.1
9.1
7.6

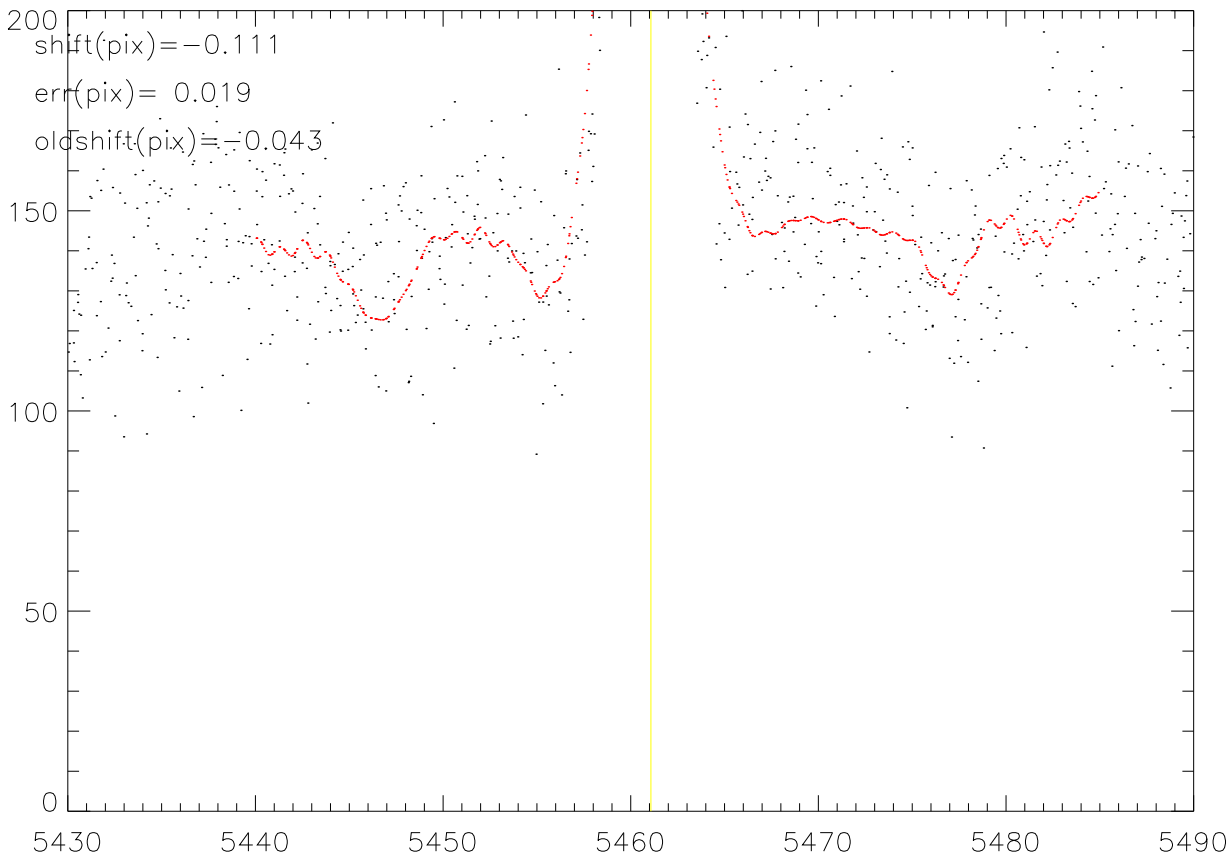

PLATE=0394 MJD=51909 Scattered Light on sdR-b2-00007940.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.707
Max value = 9.570
Thu Feb 28 05:12:13 2008

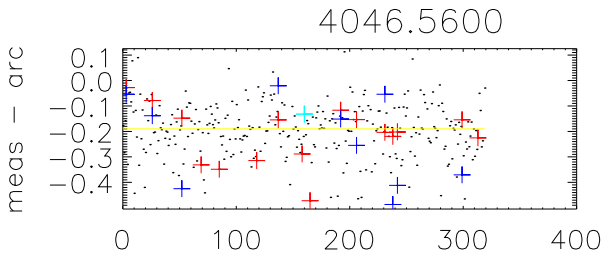

PLATE=0394 MJD=51909 Extraction chi^2 for sdR-b2-00007940.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

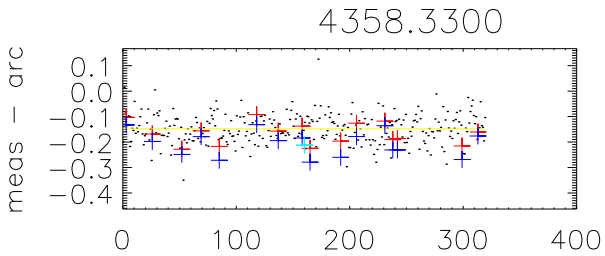

4046.5600
off: −0.44
sig: 0.058
4358.3300
off: −0.21
sig: 0.018
5460.9400
off: −0.04
sig: 0.016
5577.3390
off: −0.05
sig: 0.003
5889.9500
off: 0.03
sig: 0.013
5895.9240
off: 0.04
sig: 0.016

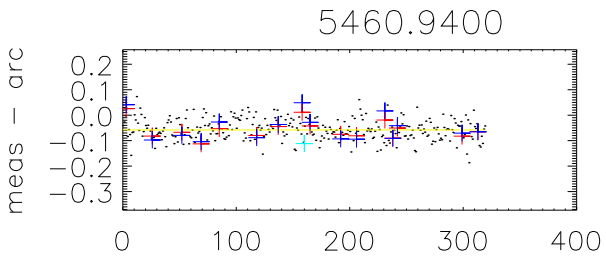

shift(pix)=−0.132
err(pix)= 0.056
oldshift(pix)=−0.435
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

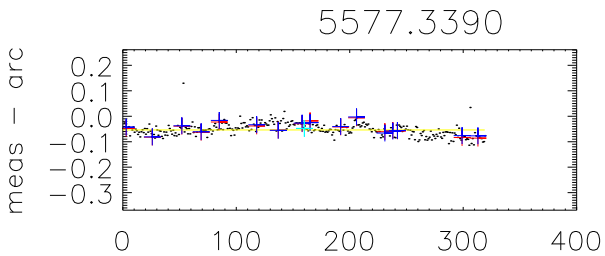

shift(pix)=−0.212
err(pix)= 0.020
oldshift(pix)=−0.208
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

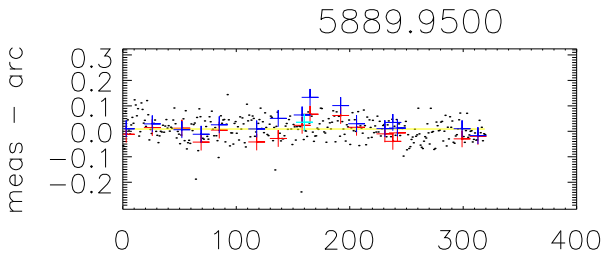

shift(pix)=−0.111
err(pix)= 0.019
oldshift(pix)=−0.043
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

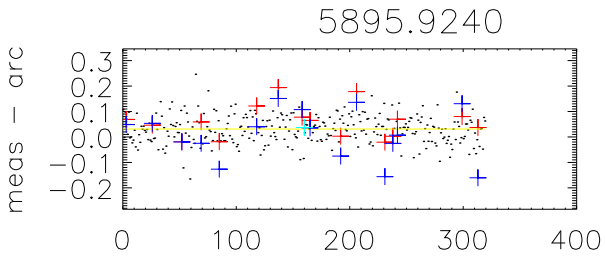

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

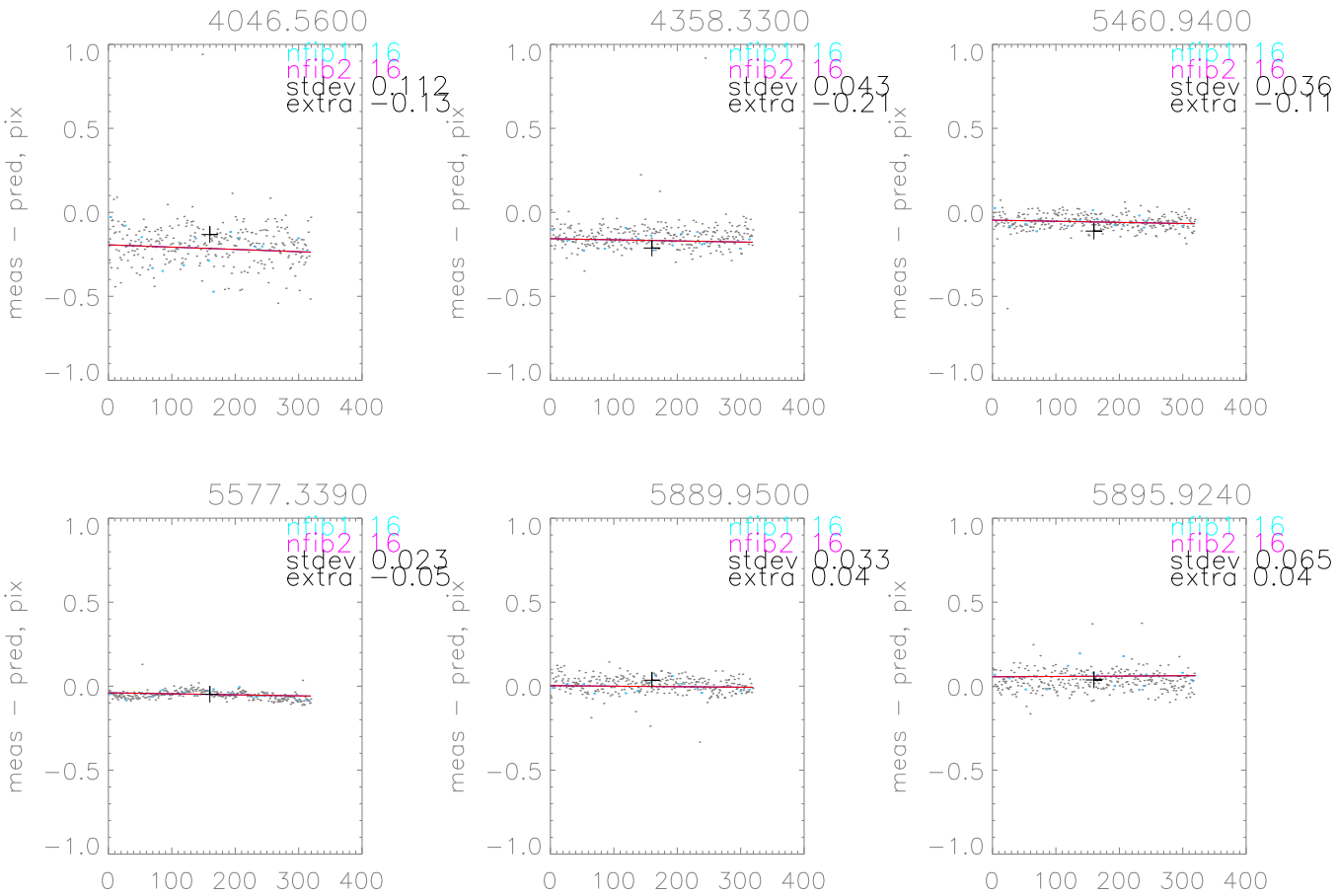

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

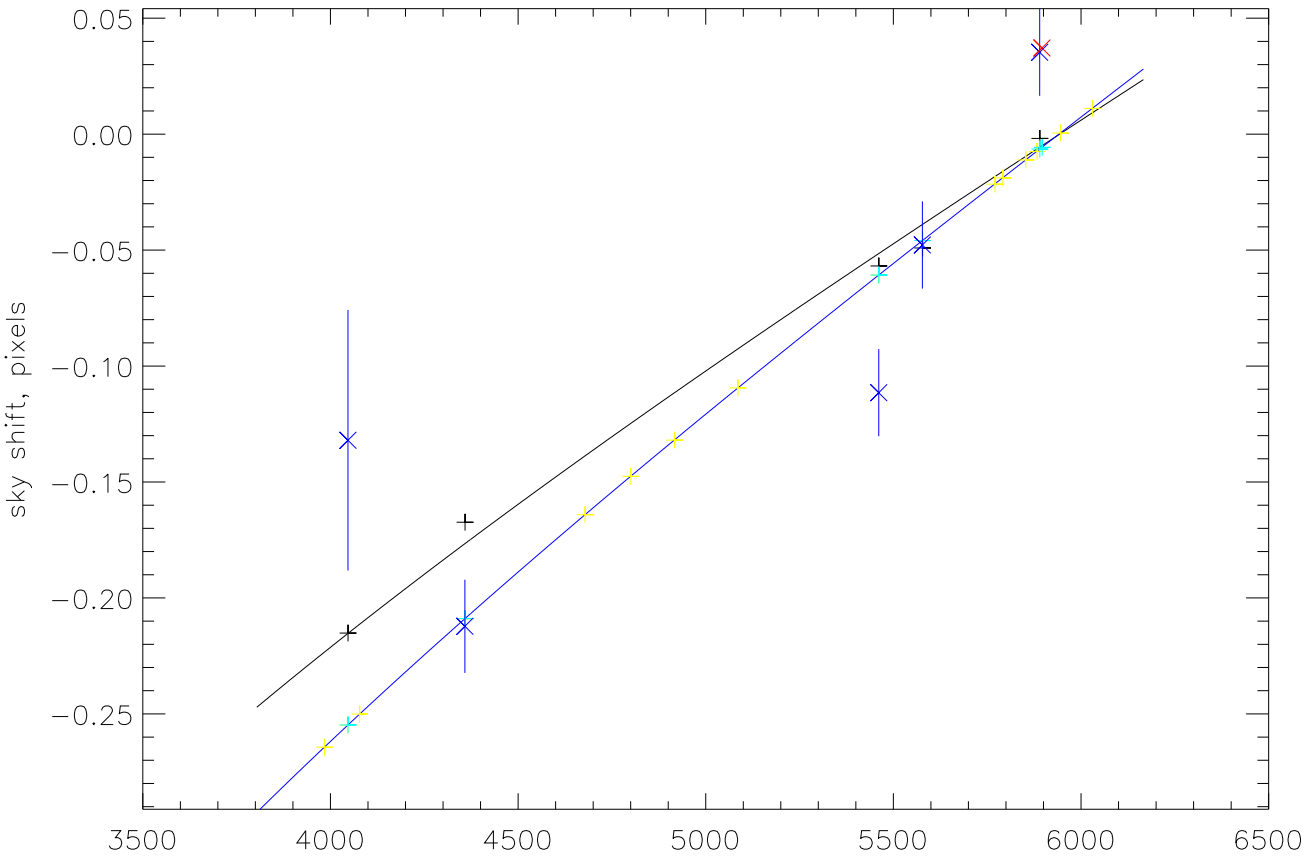

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

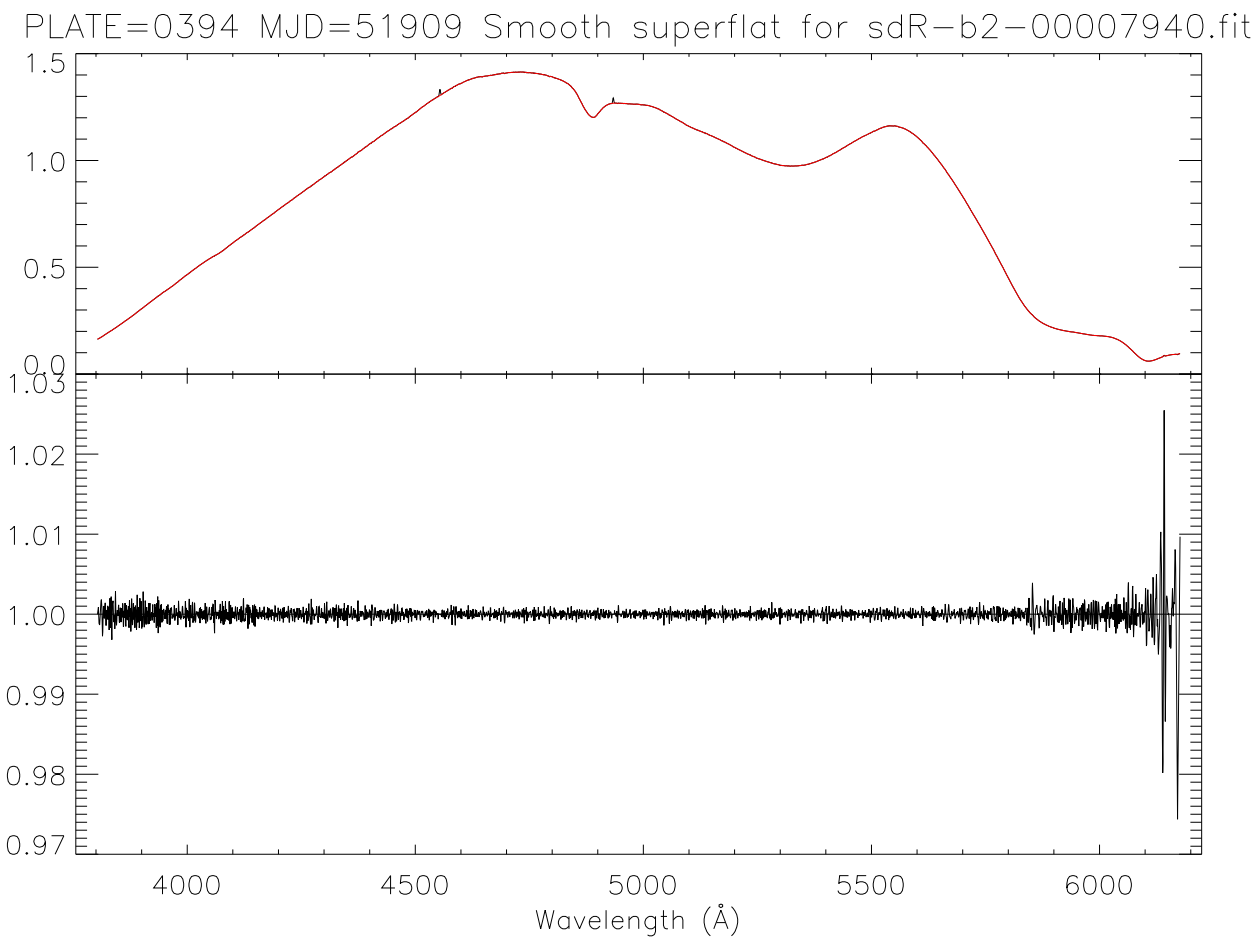

5889.9500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

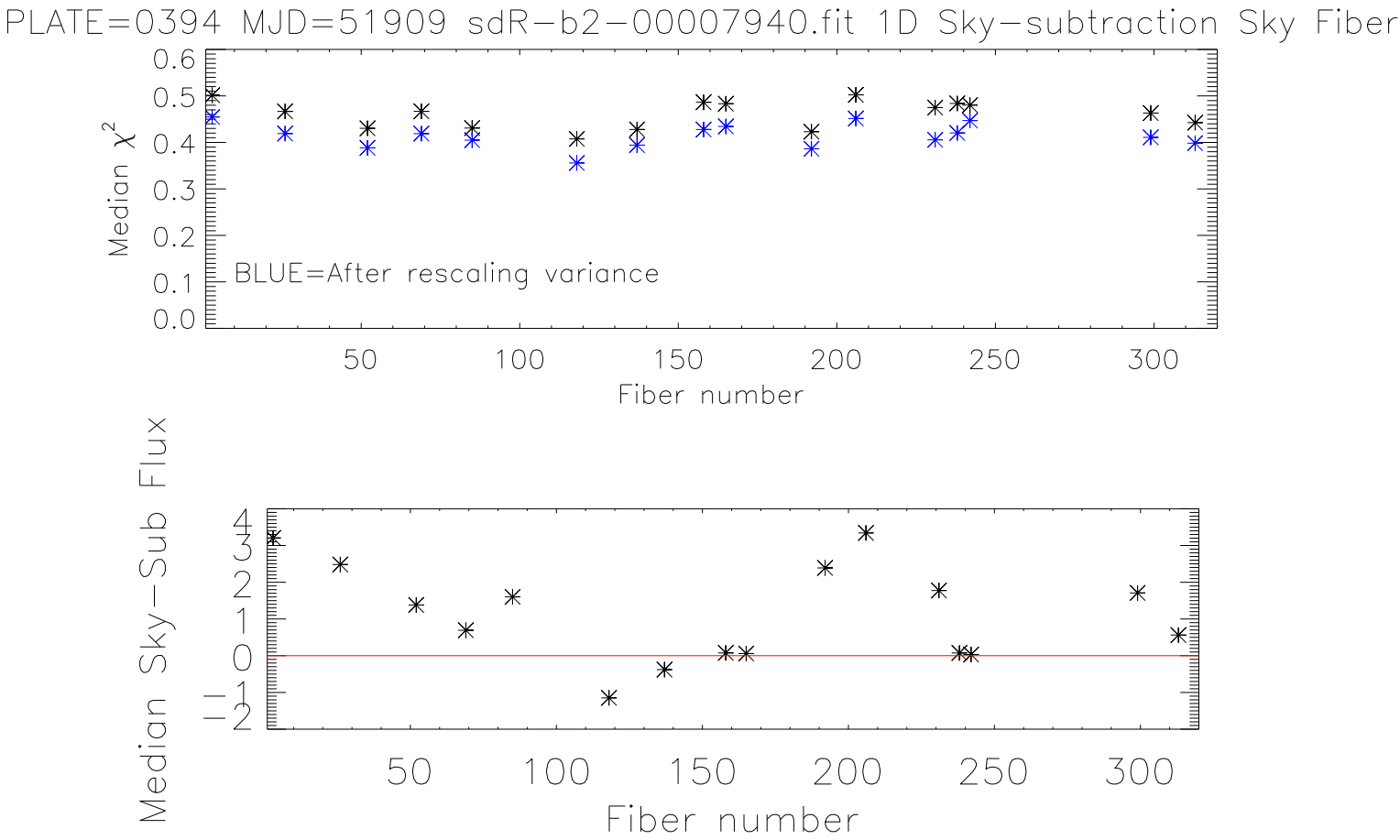

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

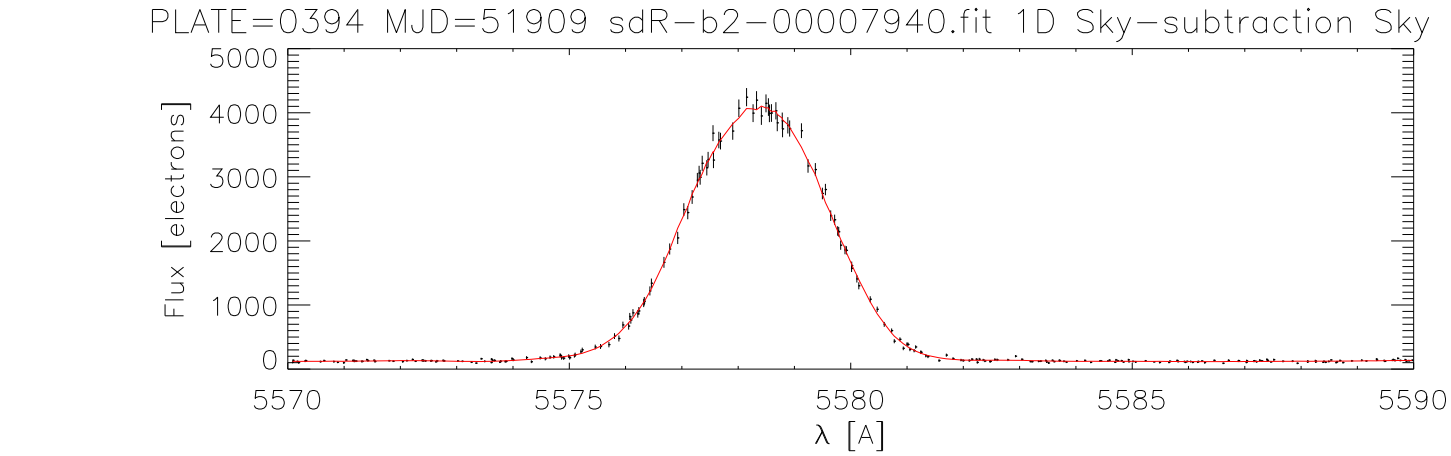

4046.5600
nfib1 16
nfib2 16
stdev 0.112
extra −0.13
4358.3300
nfib1 16
nfib2 16
stdev 0.043
extra −0.21
5460.9400
nfib1 16
nfib2 16
stdev 0.036
extra −0.11
5577.3390
nfib1 16
nfib2 16
stdev 0.023
extra −0.05
5889.9500
nfib1 16
nfib2 16
stdev 0.033
extra 0.04
5895.9240
nfib1 16
nfib2 16
stdev 0.065
extra 0.04
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

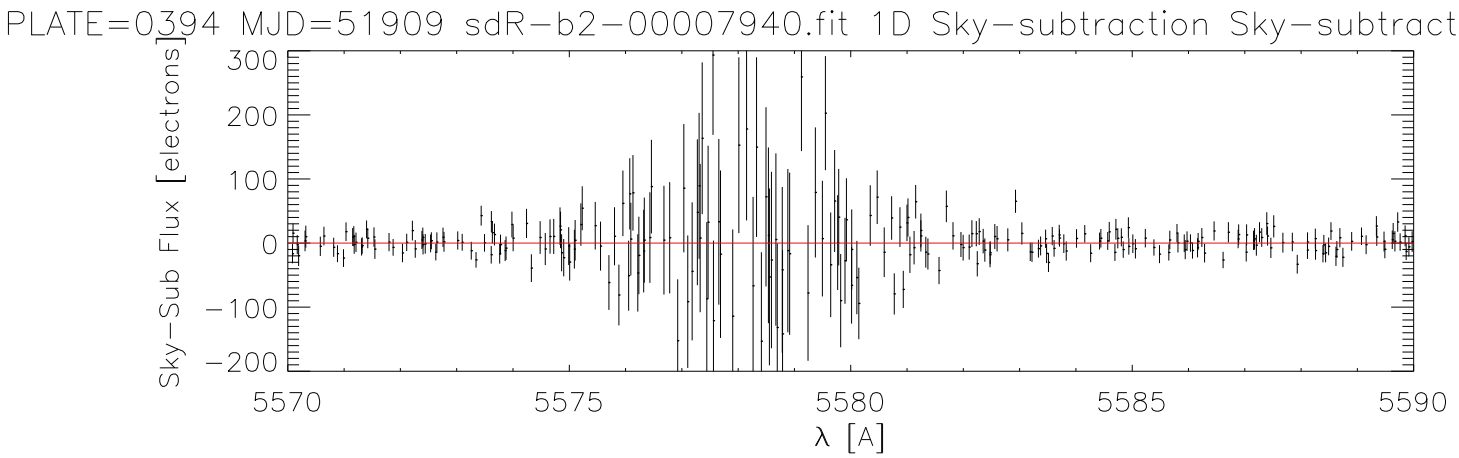

0.05
0.00
−0.05
−0.10
−0.15
−0.20
−0.25
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

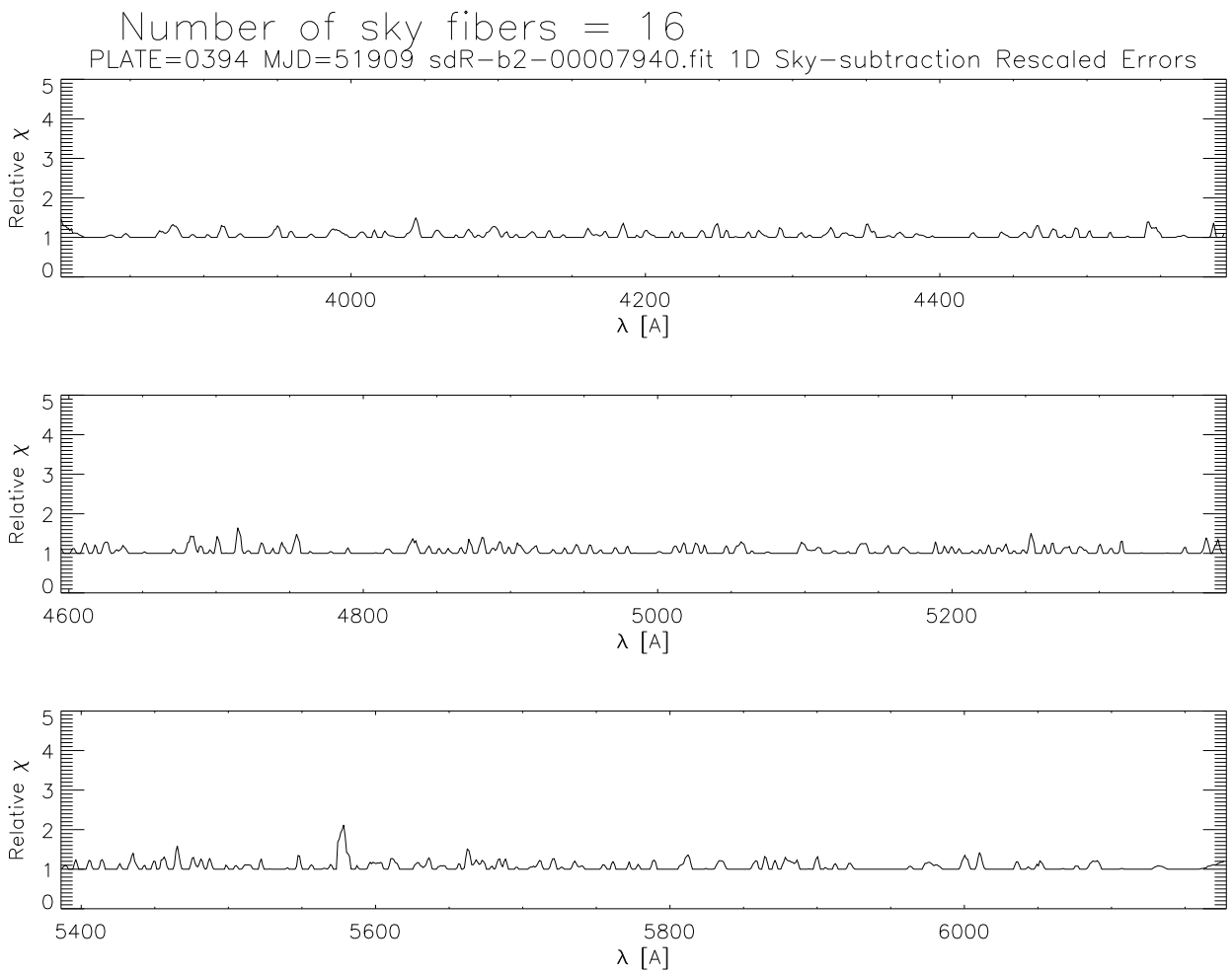
es= 0.0000

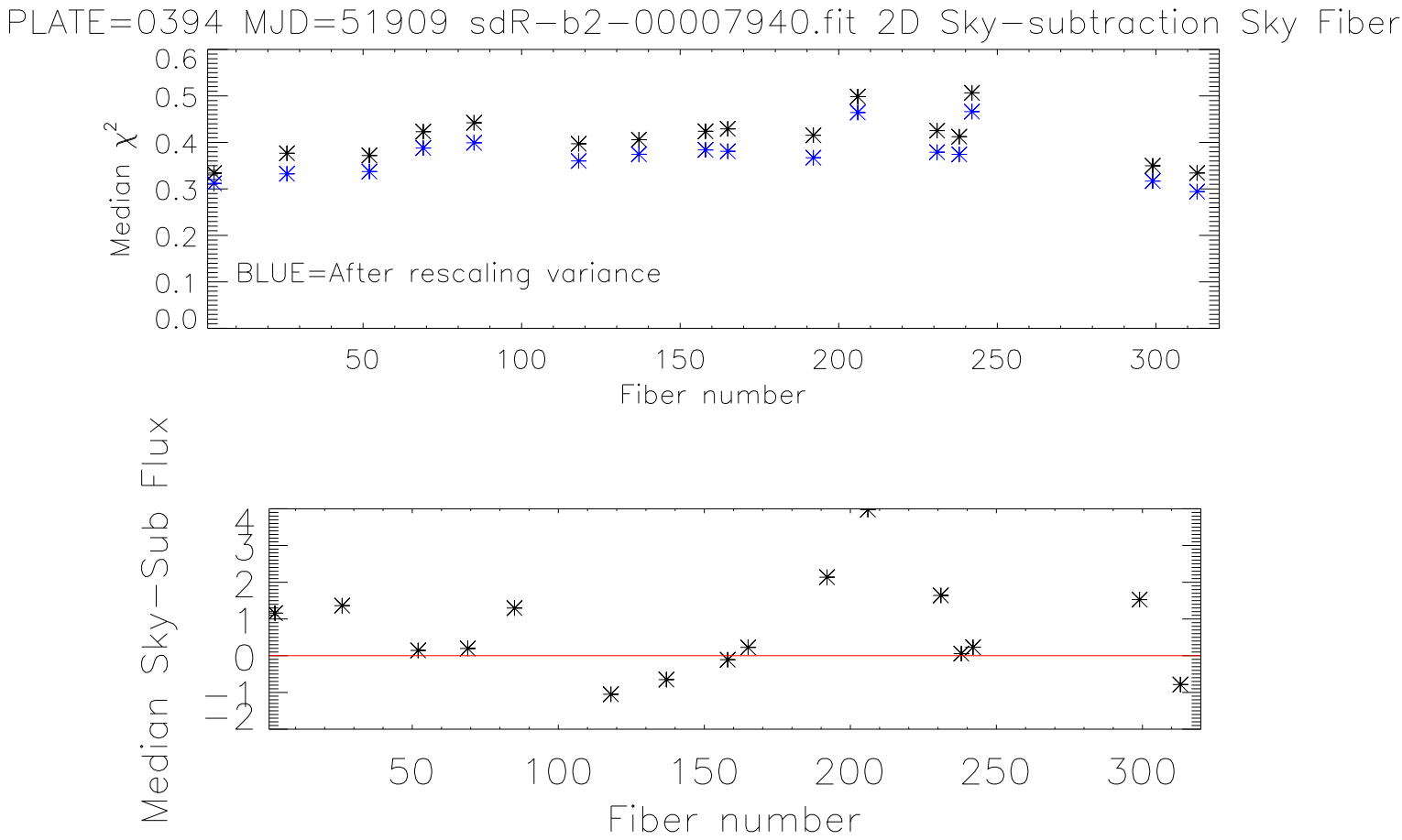

PLATE=0394 MJD=51909 Smooth superflat for sdR-b2-00007940.fit
1.5
1.0
0.5
0.0
1.03
1.02
1.01
1.00
0.99
0.98
0.97
4000
4500
5000
5500
6000
Wavelength (Å)

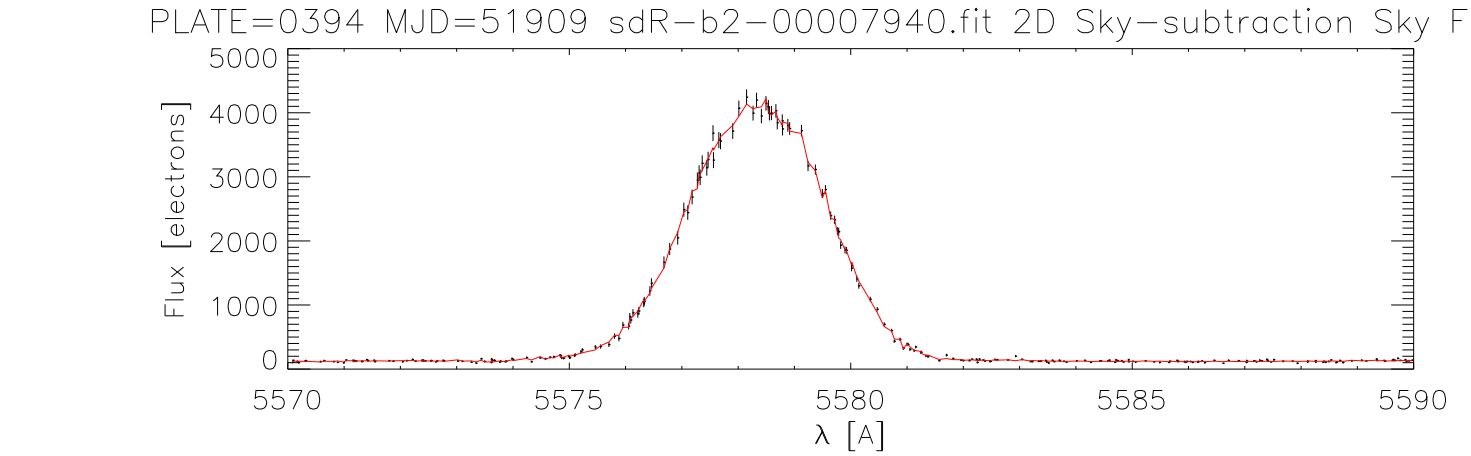

PLATE=0394 MJD=51909 sdR-b2-00007940.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

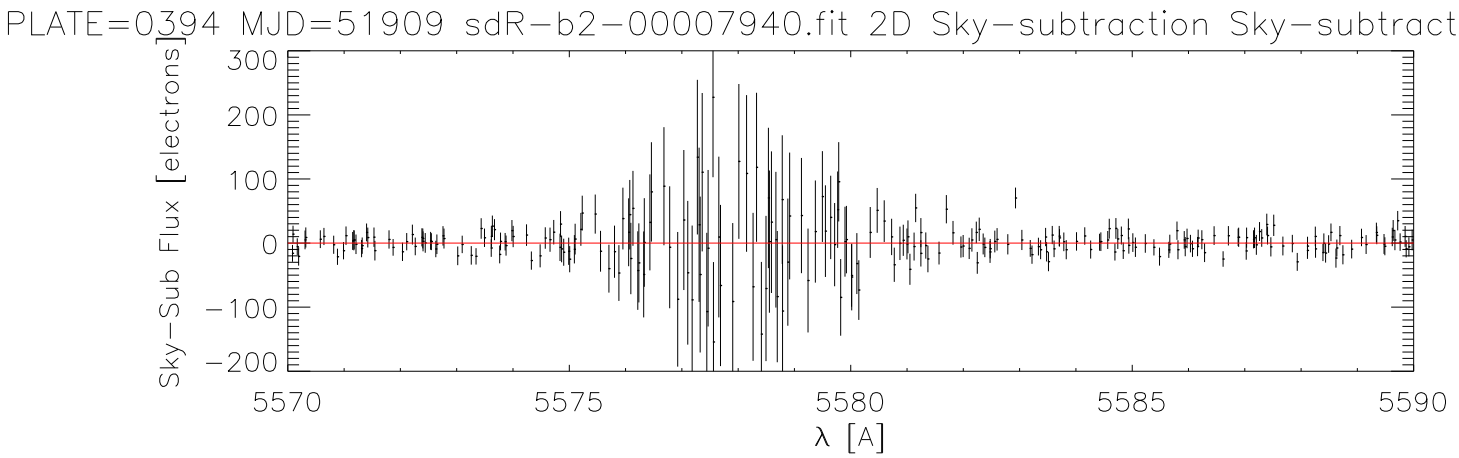

PLATE=0394 MJD=51909 sdR-b2-00007940.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

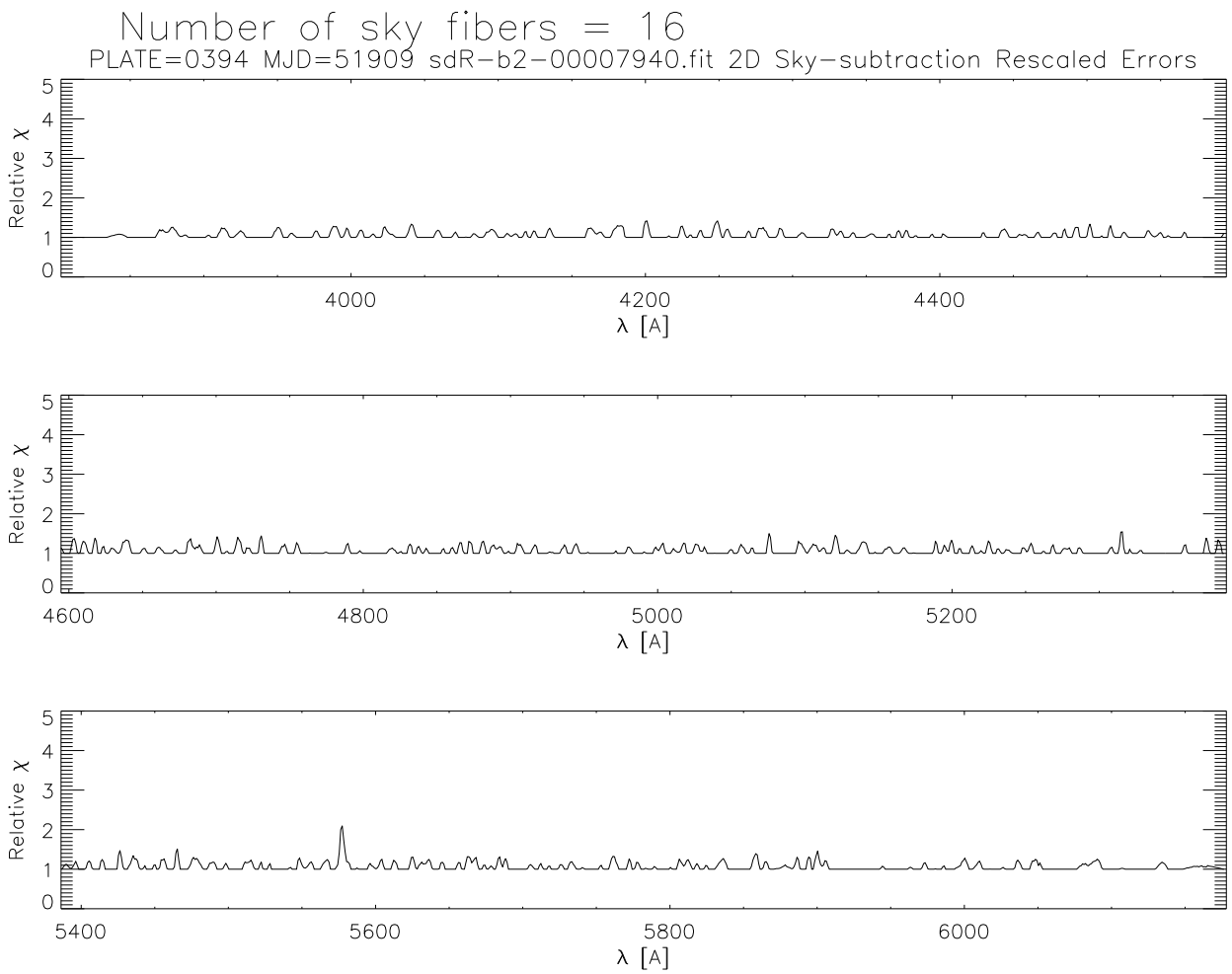

PLATE=0394 MJD=51909 sdR-b2-00007940.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

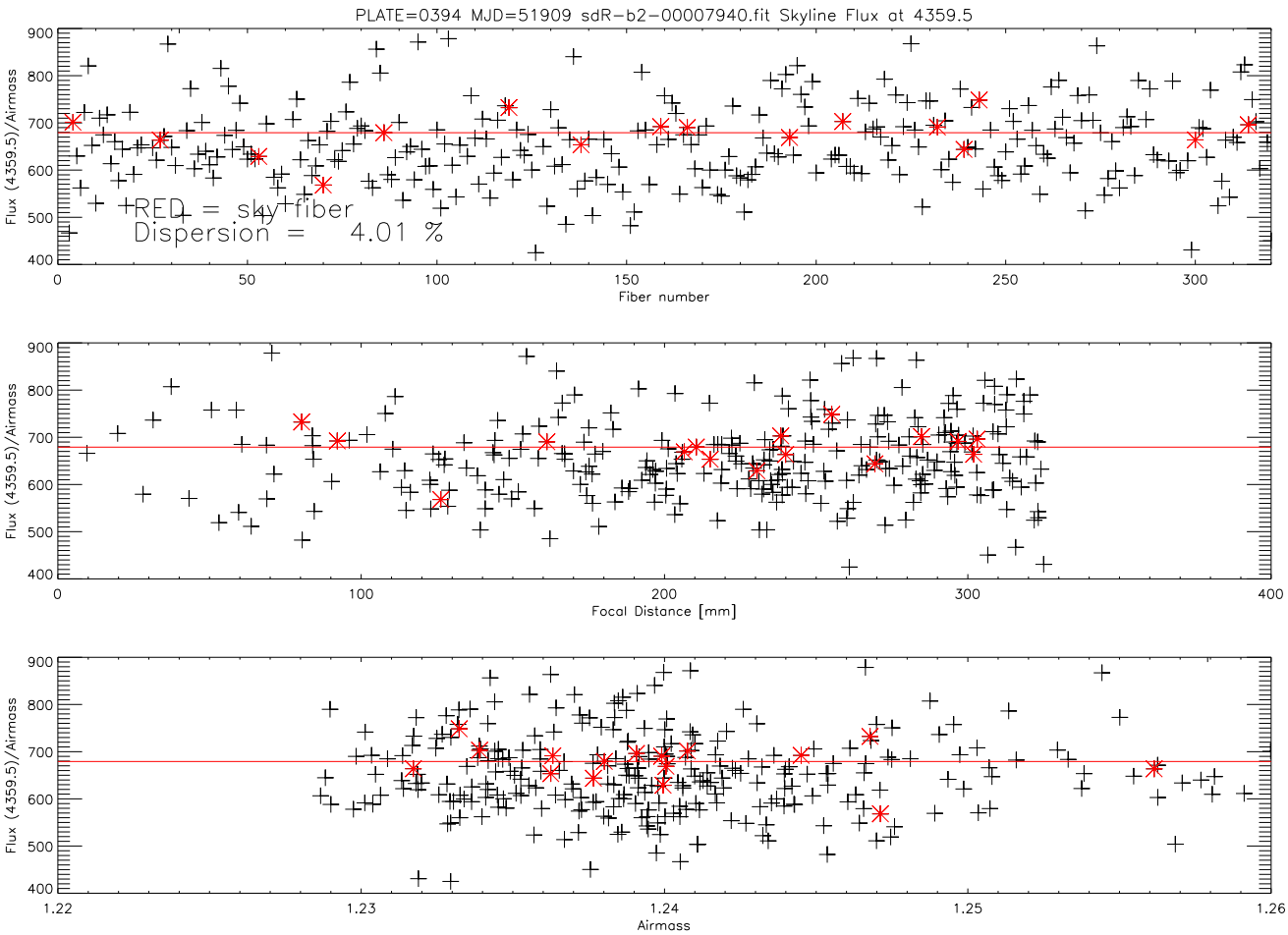

Number of sky fibers = 16
PLATE=0394 MJD=51909 sdR-b2-00007940.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

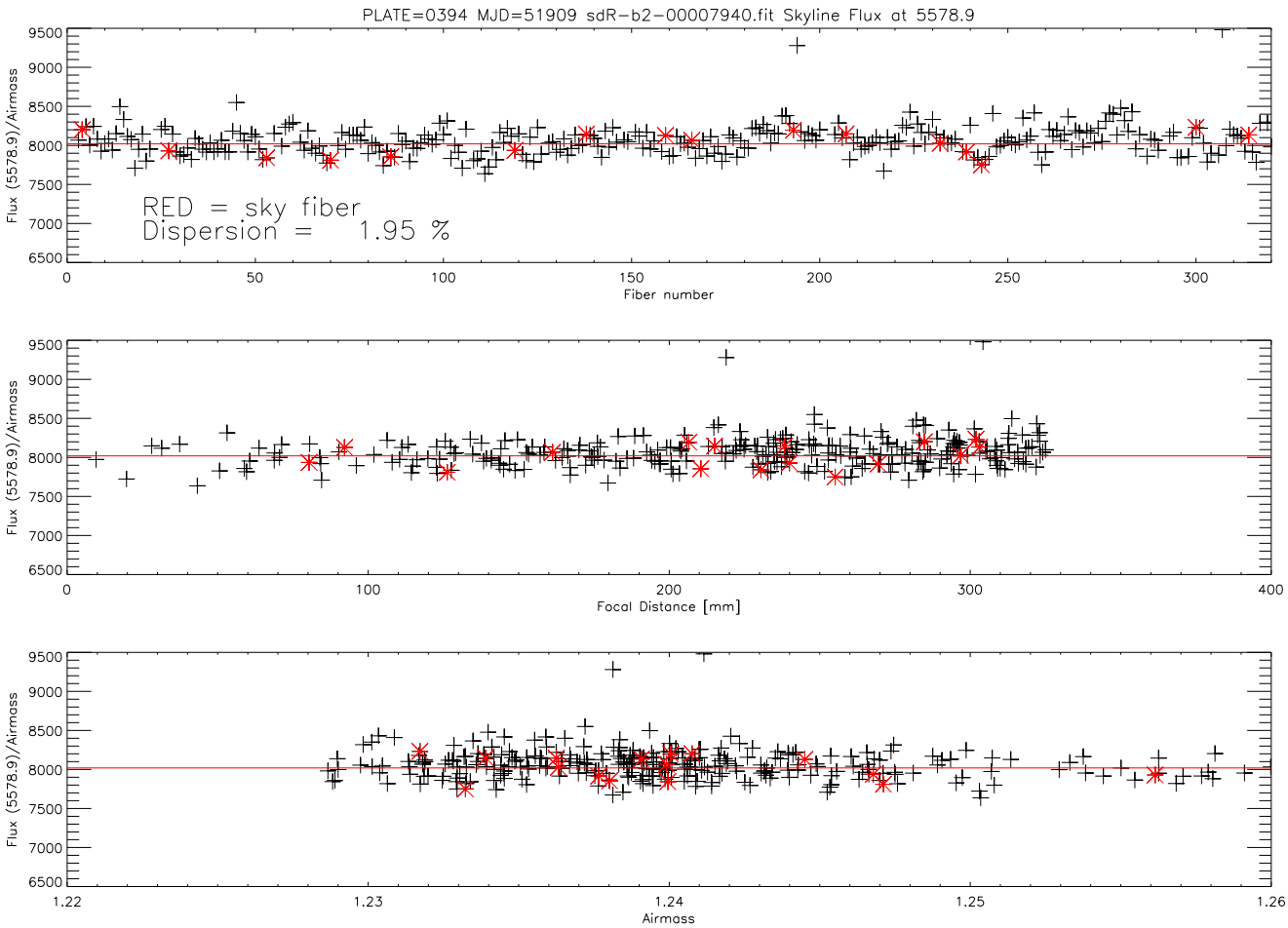

PLATE=0394 MJD=51909 sdR-b2-00007940.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

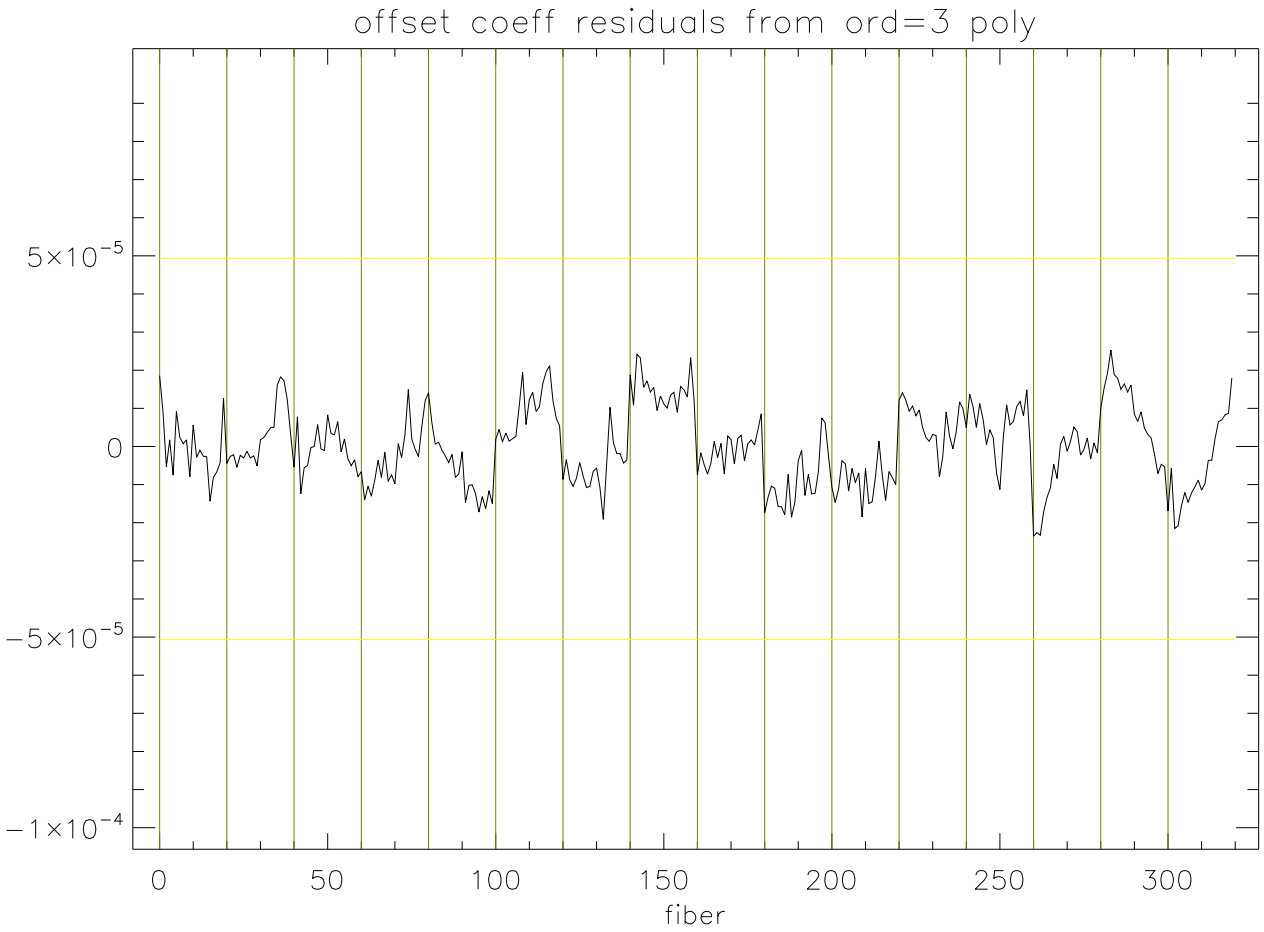

PLATE=0394 MJD=51909 sdR-b2-00007940.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

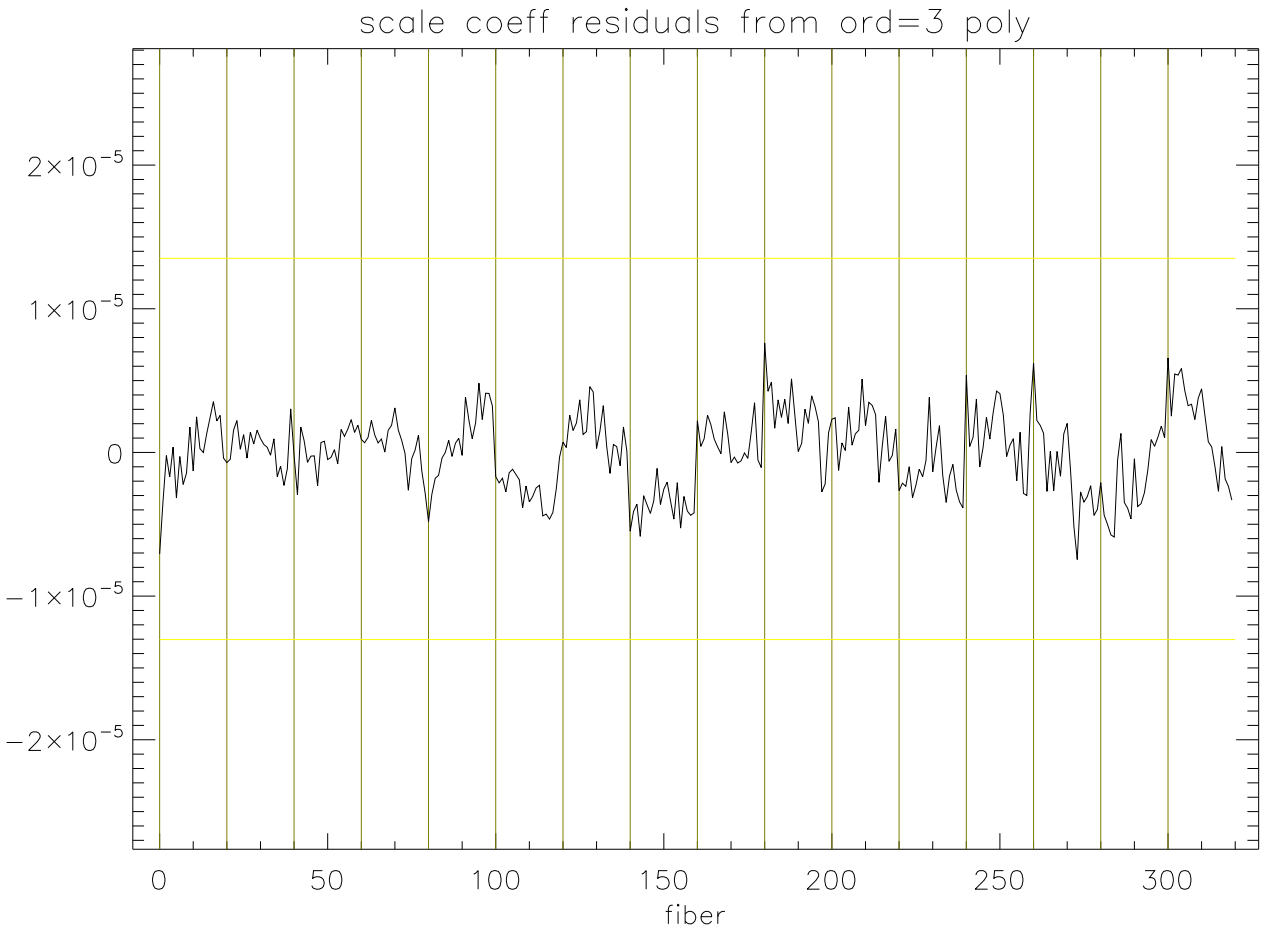

PLATE=0394 MJD=51909 sdR-b2-00007940.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

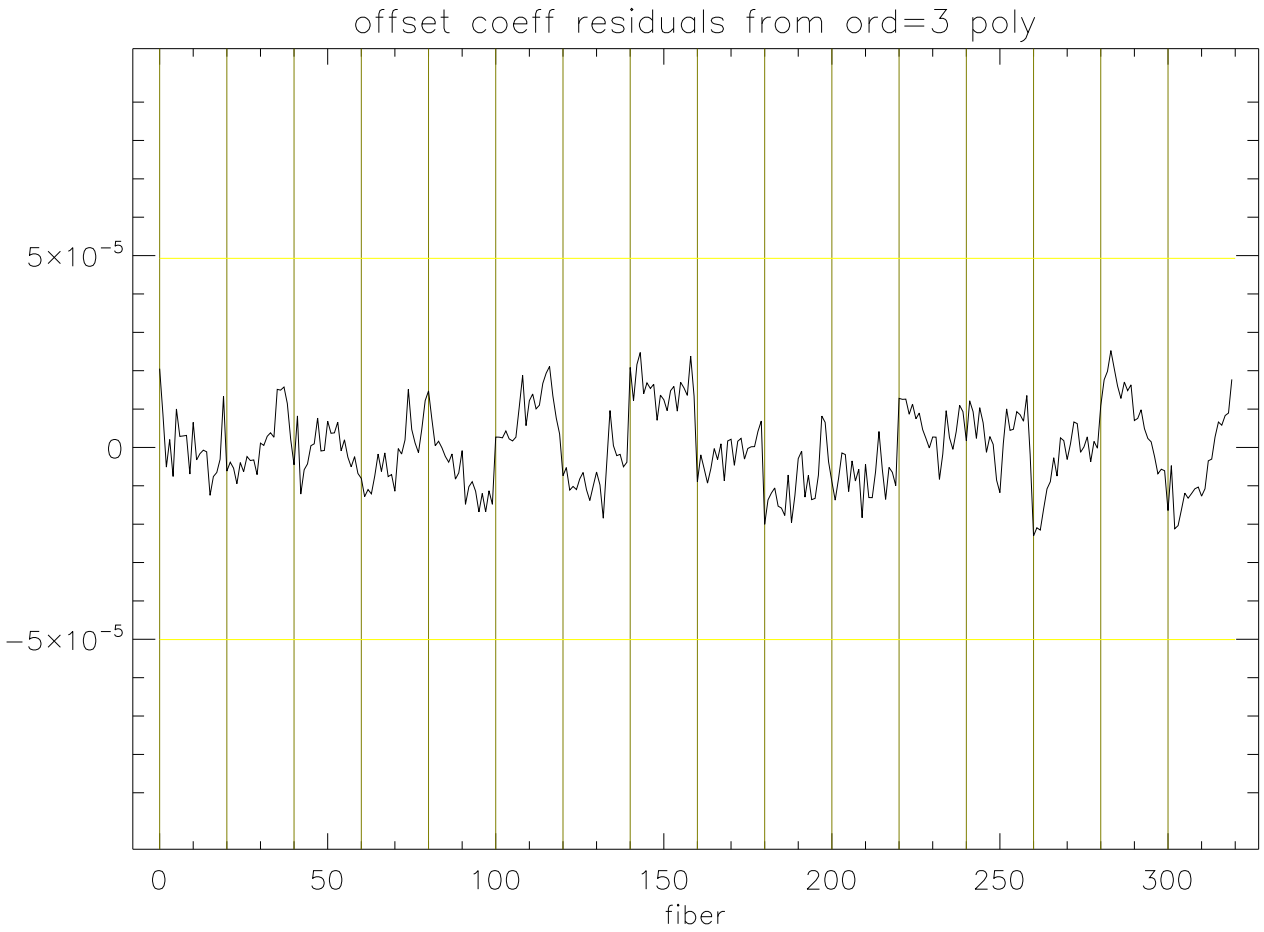

Number of sky fibers = 16
PLATE=0394 MJD=51909 sdR-b2-00007940.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

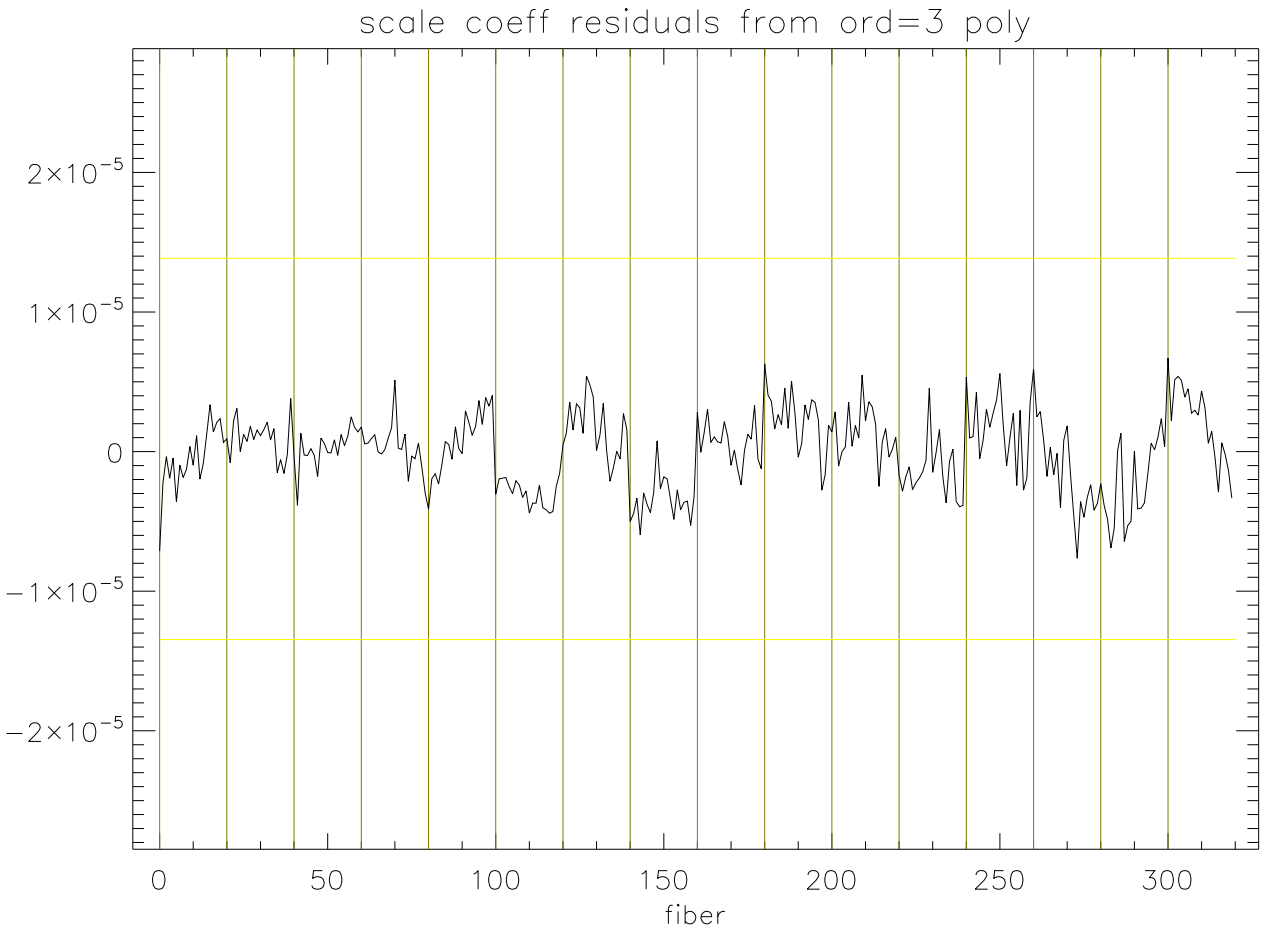

PLATE=0394 MJD=51909 sdR-b2-00007940.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 4.01 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

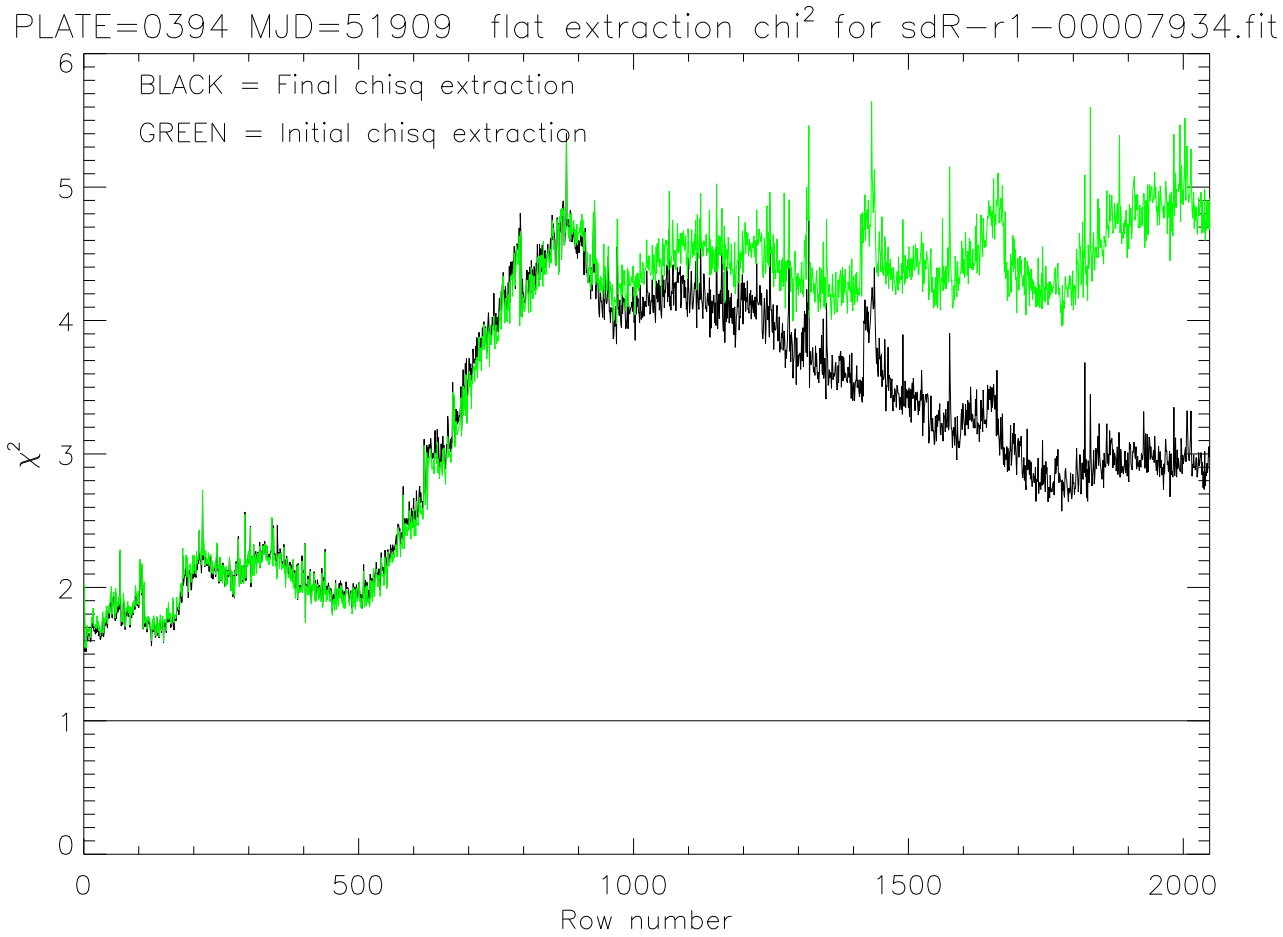

PLATE=0394 MJD=51909 sdR-b2-00007940.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.95 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

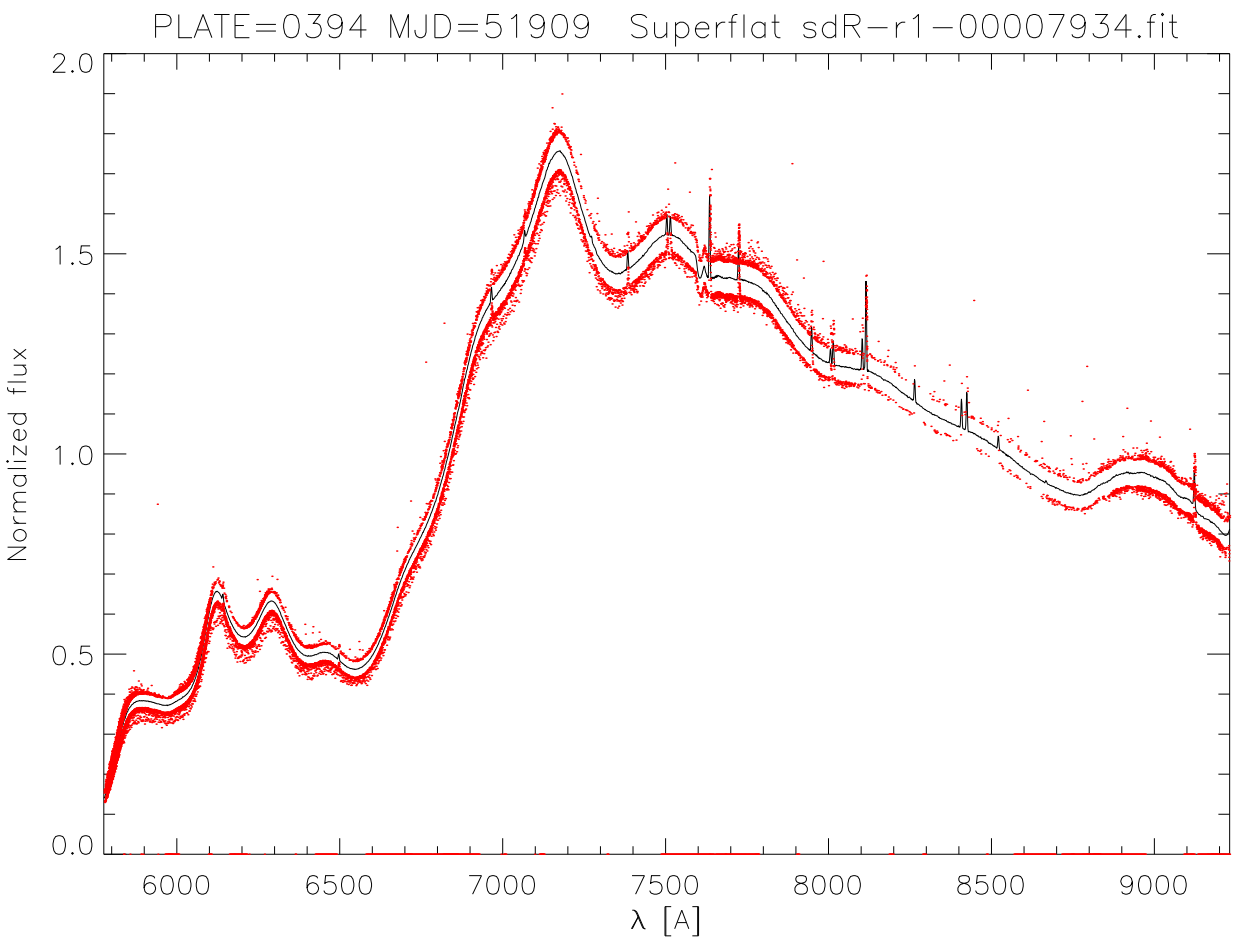

offset coeff residuals from ord=3 poly
5×10⁻⁵
0
−5×10⁻⁵
−1×10⁻⁴
0
50
100
150
200
250
300
fiber

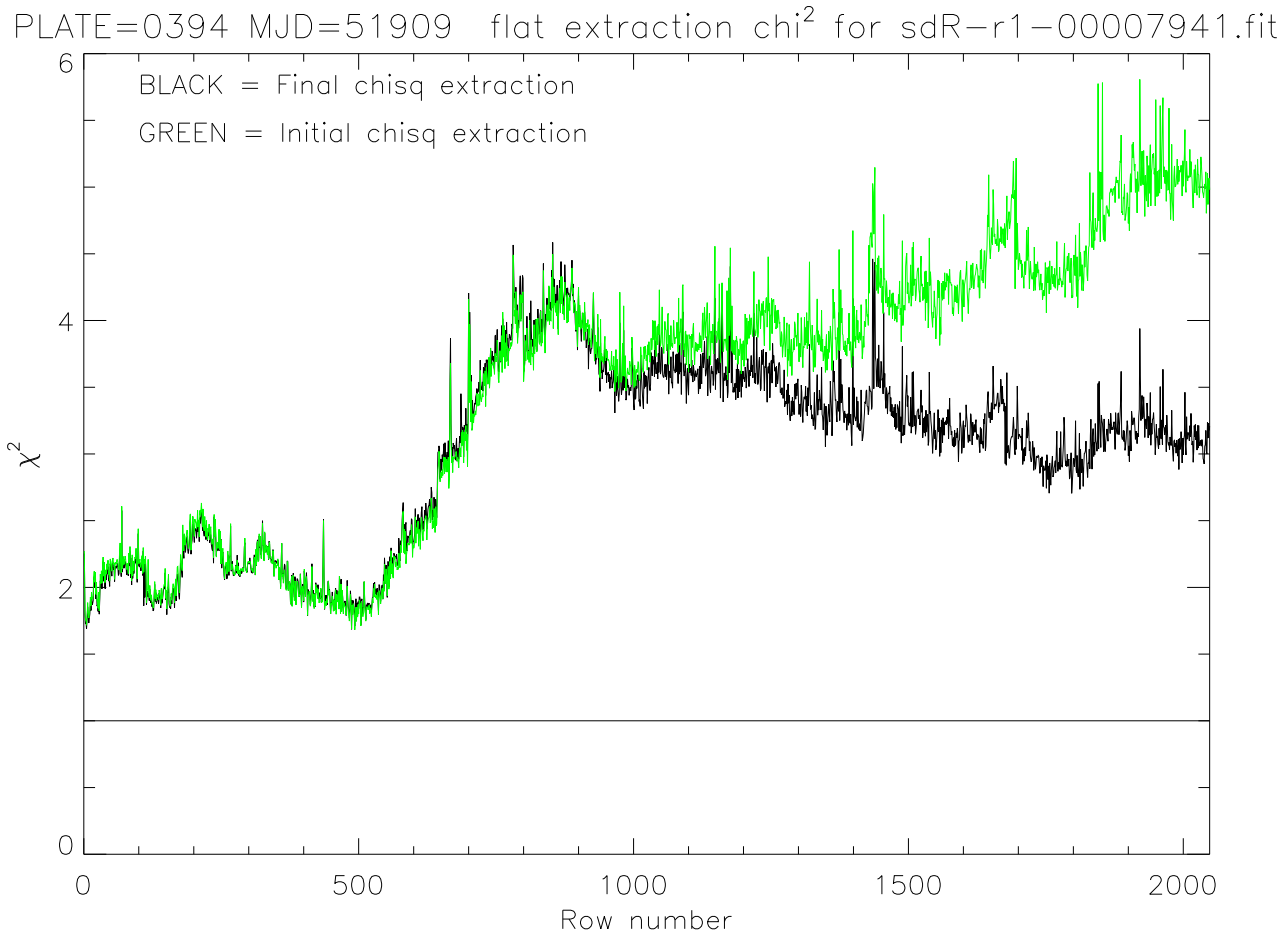

scale coeff residuals from ord=3 poly
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

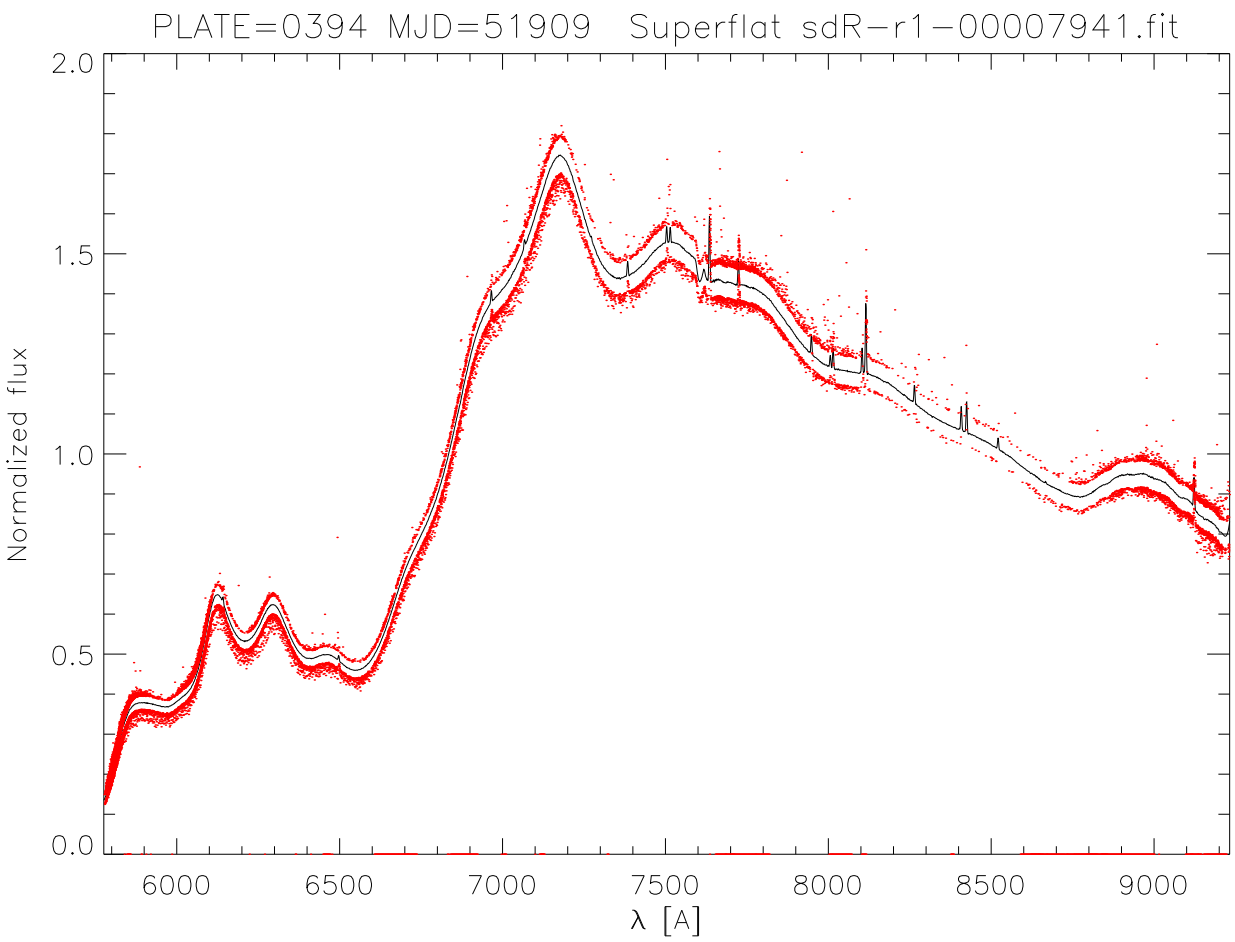

offset coeff residuals from ord=3 poly
5×10⁻⁵
0
−5×10⁻⁵
0
50
100
150
200
250
300
fiber

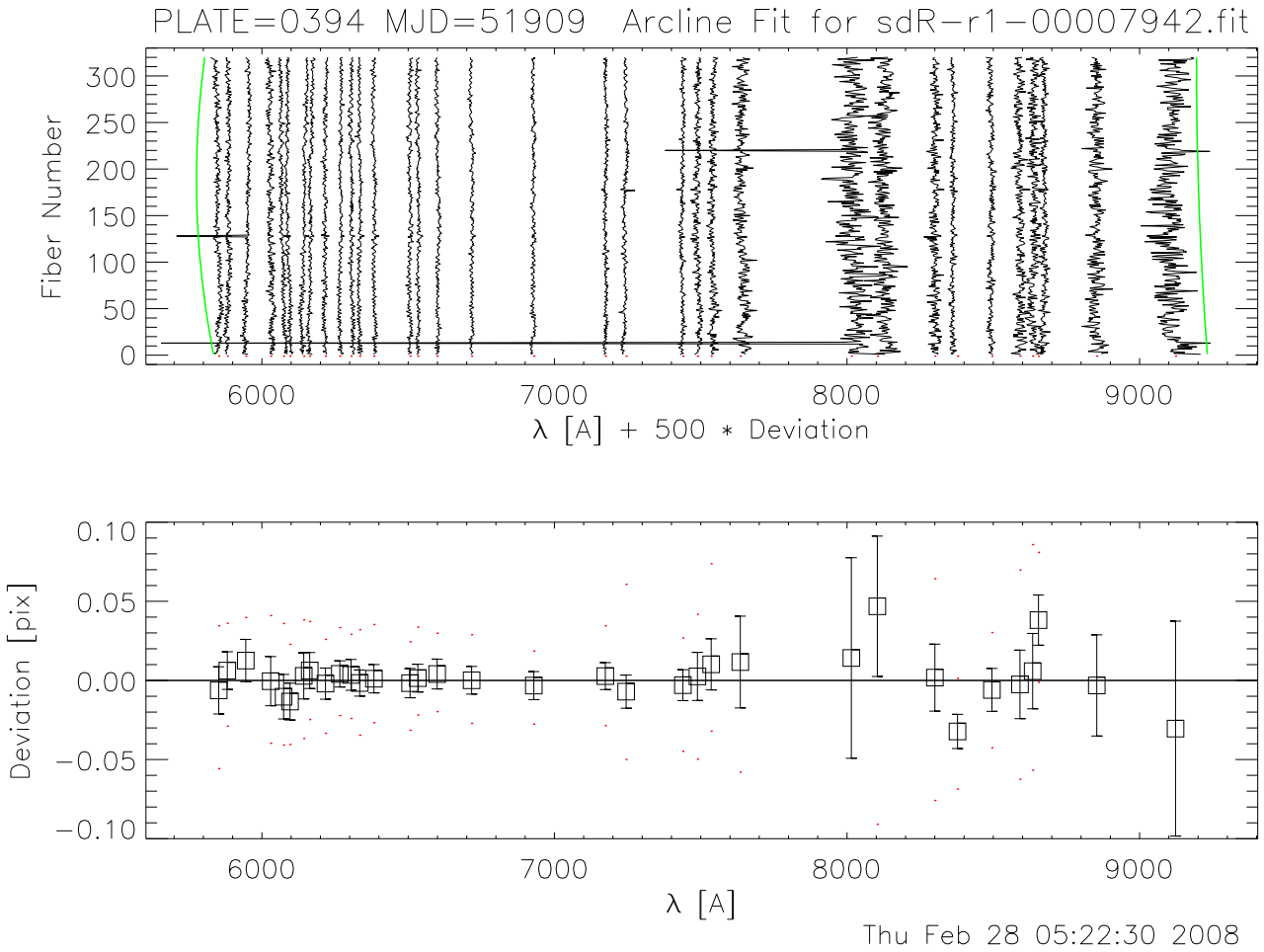

scale coeff residuals from ord=3 poly
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

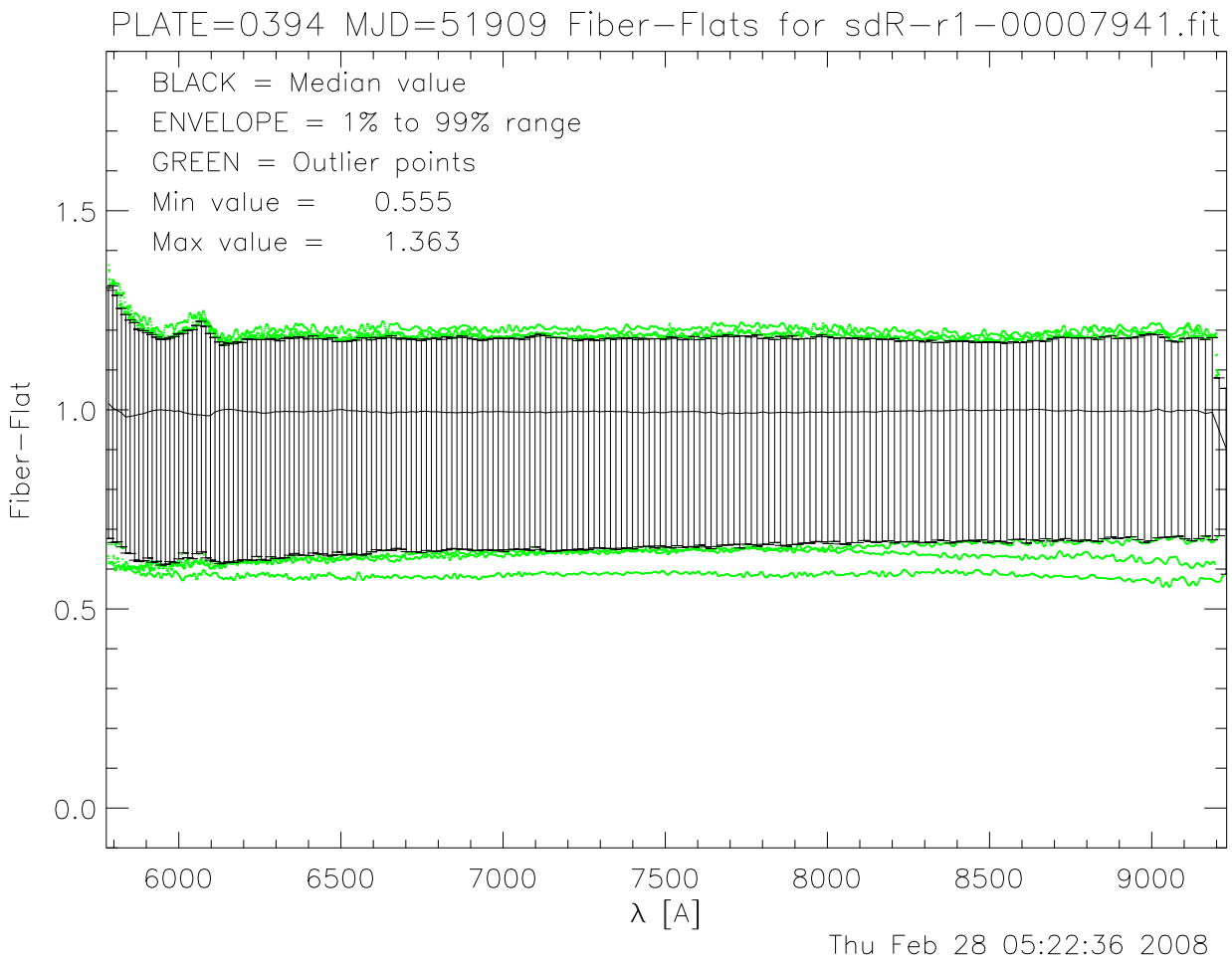

PLATE=0394 MJD=51909 flat extraction chi^2 for sdR−r1−00007934.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
6
0
500
1000
1500
2000

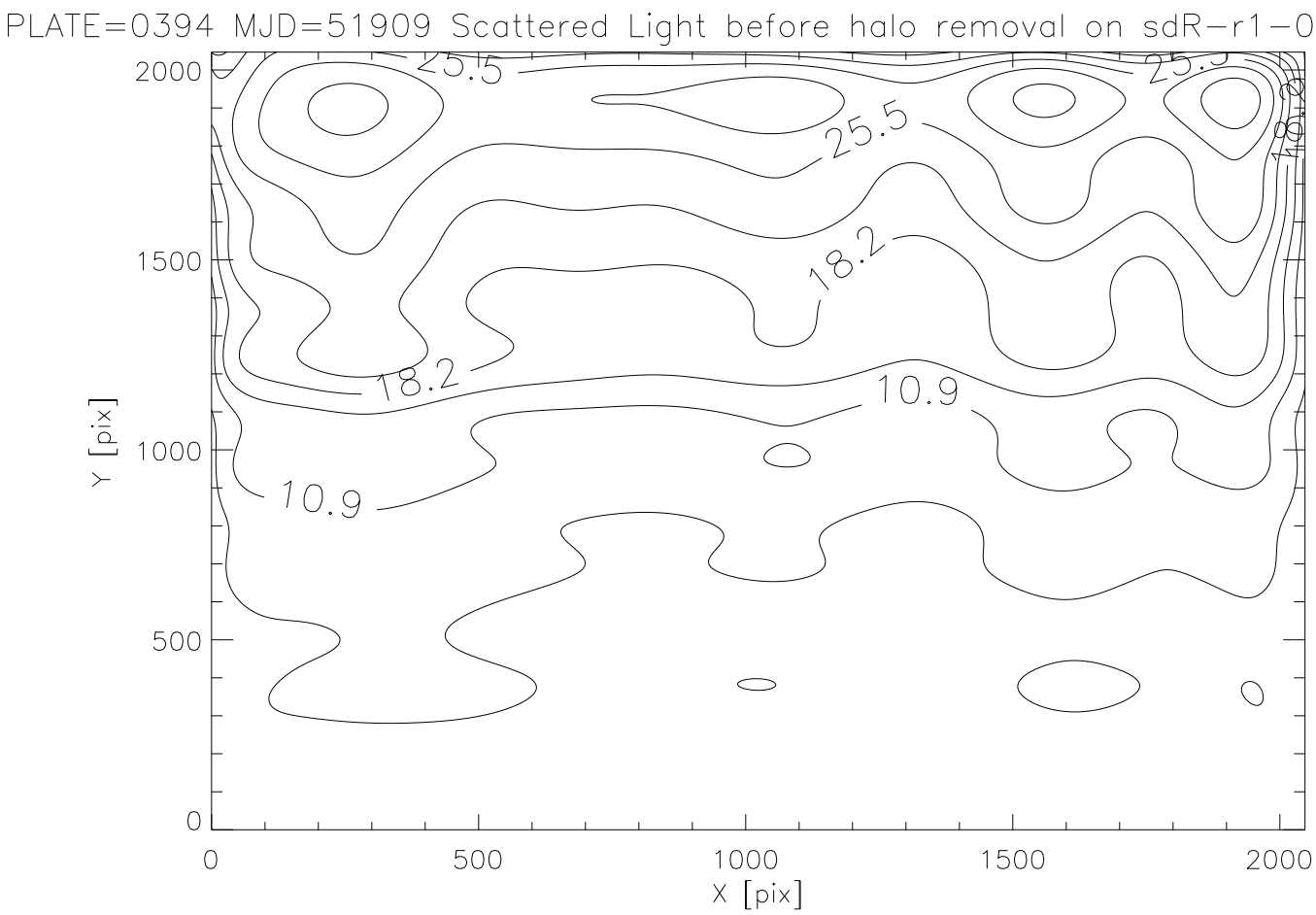

PLATE=0394 MJD=51909 Superflat sdR-r1-00007934.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

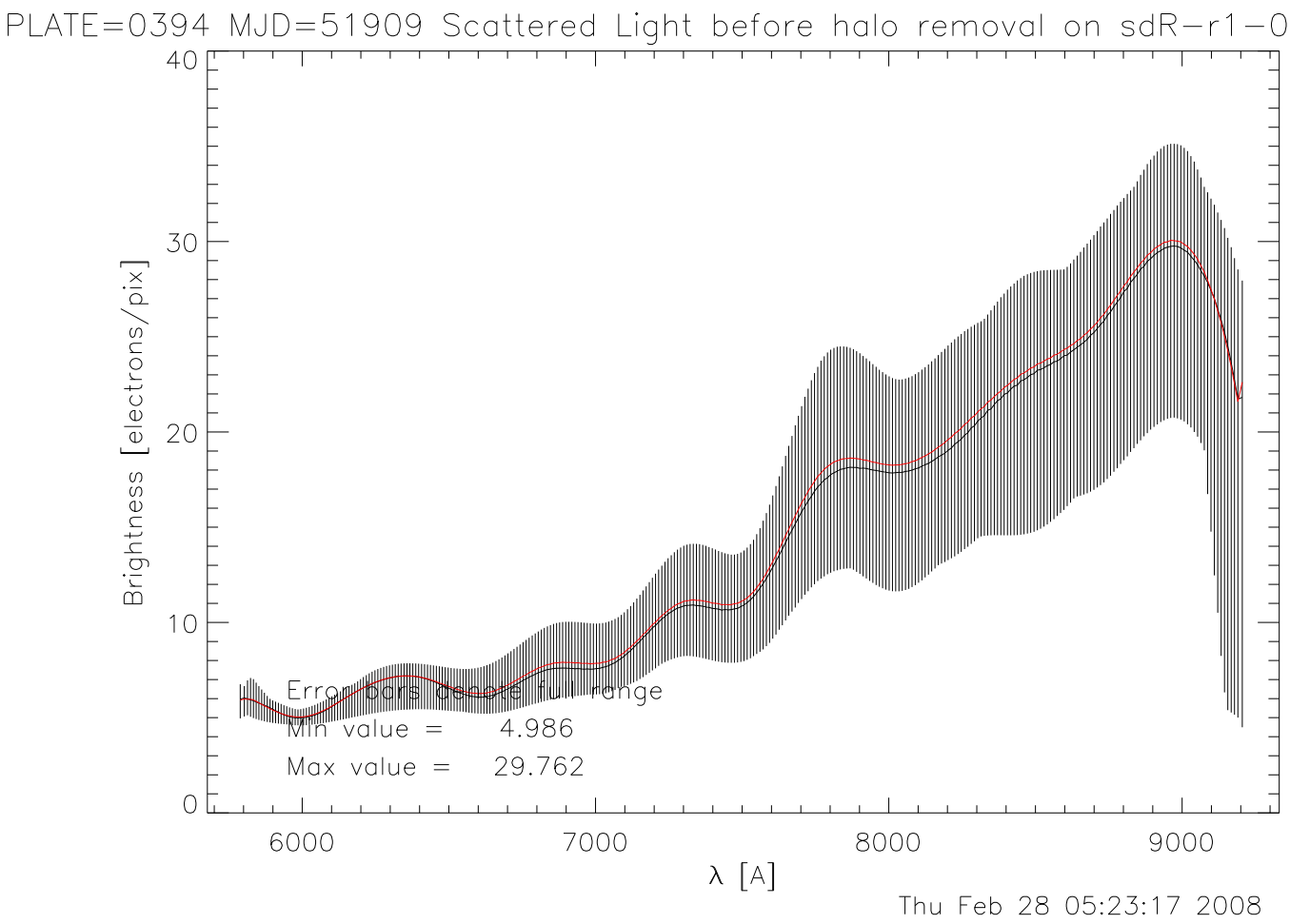

PLATE=0394 MJD=51909 flat extraction chi^2 for sdR−r1−00007941.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
0
500
1000
1500
2000
Row number

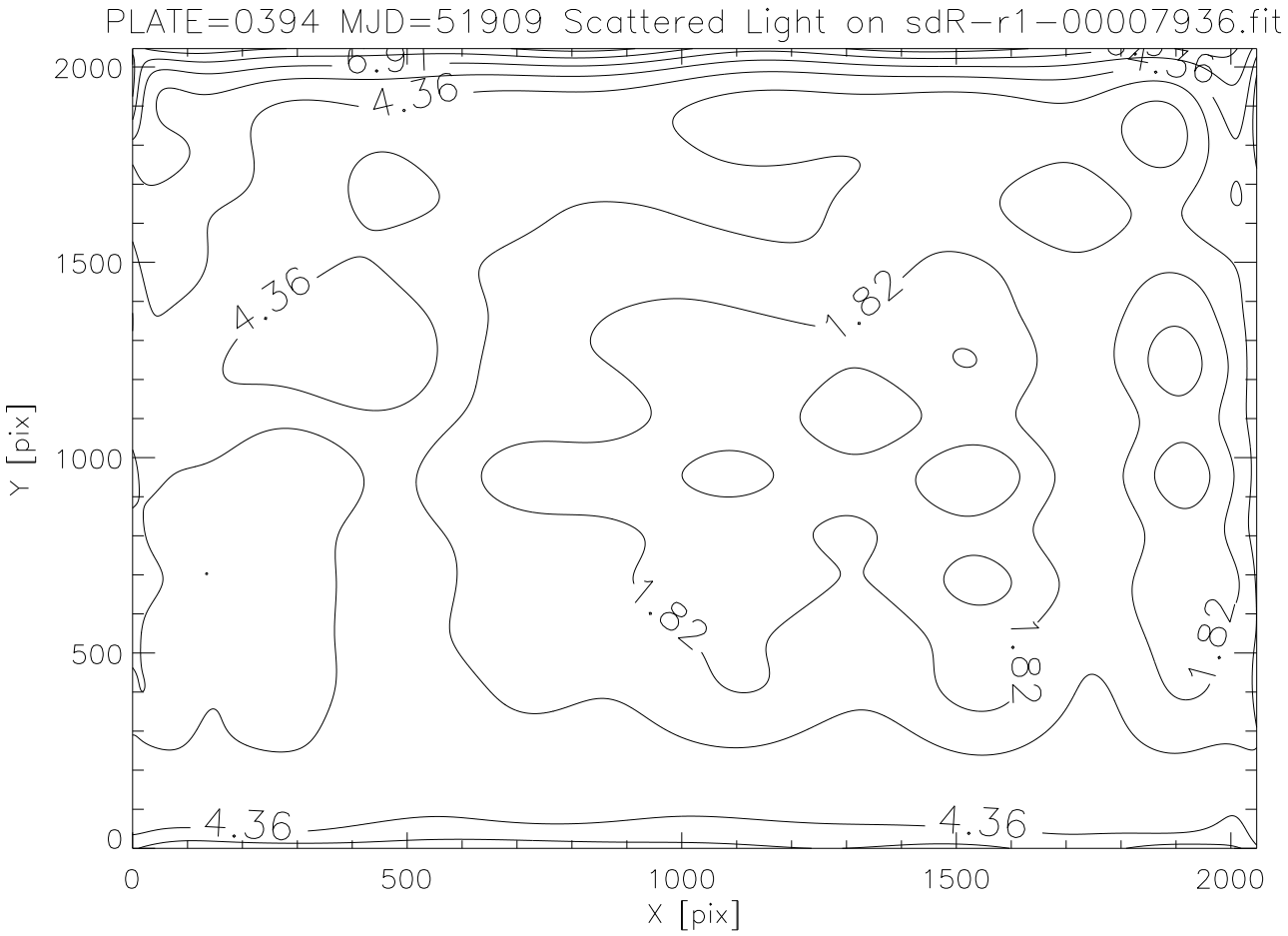

PLATE=0394 MJD=51909 Superflat sdR-r1-00007941.fit
Normalized flux
λ [A]
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000

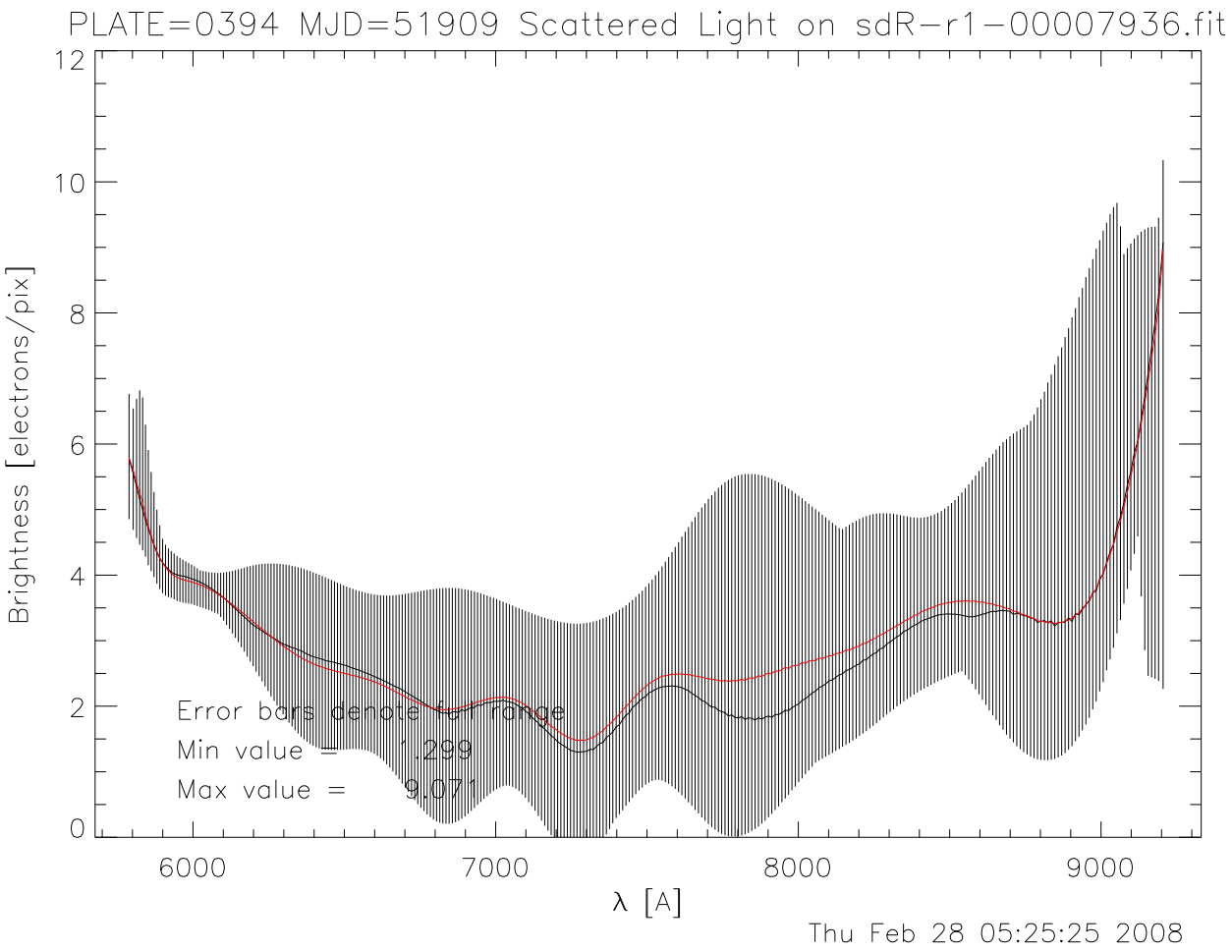

PLATE=0394 MJD=51909 Arcline Fit for sdR-r1-00007942.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Thu Feb 28 05:22:30 2008

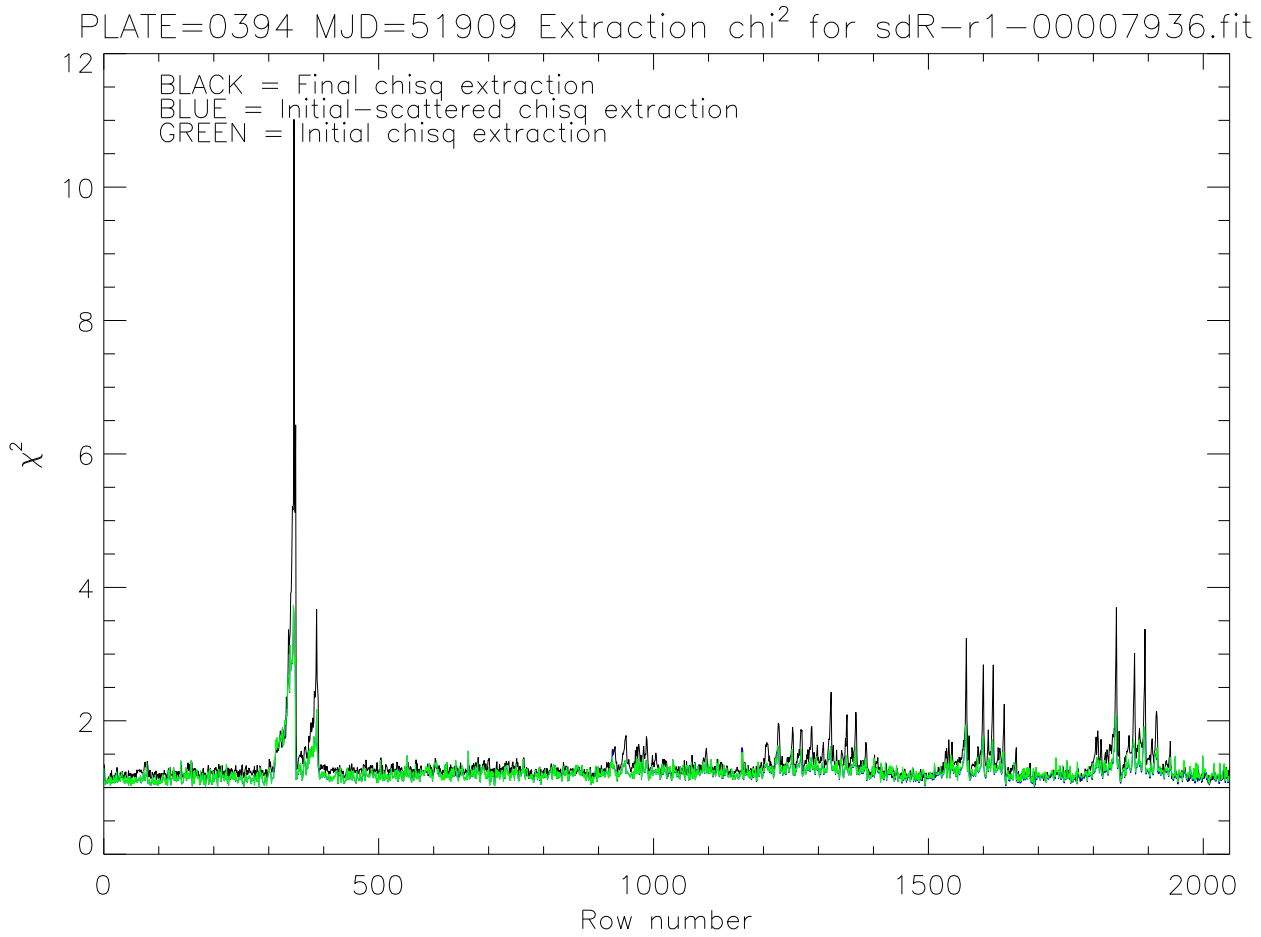

PLATE=0394 MJD=51909 Fiber−Flats for sdR−r1−00007941.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.555
Max value = 1.363
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Thu Feb 28 05:22:36 2008

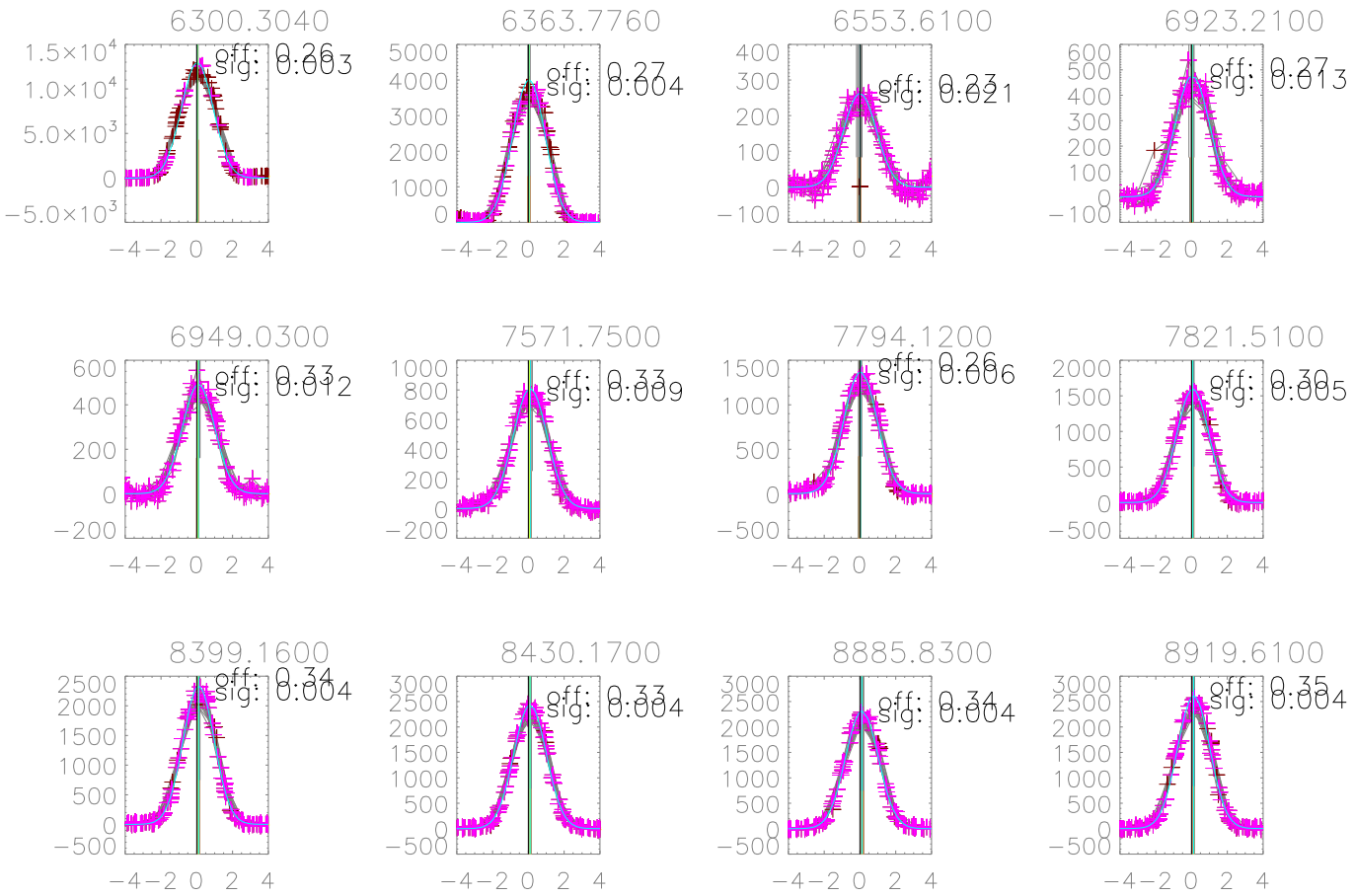

PLATE=0394 MJD=51909 Scattered Light before halo removal on sdR-r1-00007936.fi
25.5
25.5
18.2
18.2
10.9
10.9
0
Y [pix]
X [pix]
0
500
1000
1500
2000

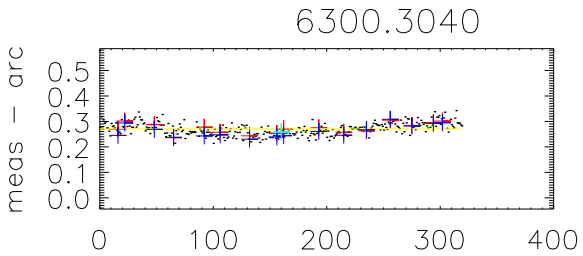

PLATE=0394 MJD=51909 Scattered Light before halo removal on sdR-r1-00007936.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.986
Max value = 29.762
Thu Feb 28 05:23:17 2008

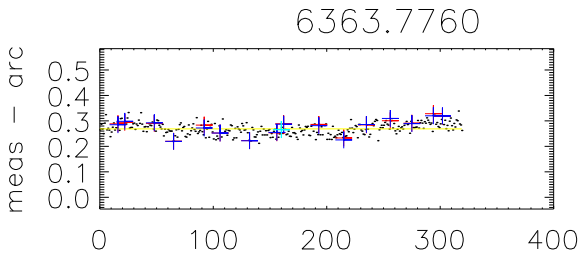

PLATE=0394 MJD=51909 Scattered Light on sdR-r1-00007936.fit
6.91
4.36
4.36
4.36
1.82
0
1.82
1.82
1.82
0
4.36
4.36
Y [pix]
X [pix]
0
500
1000
1500
2000

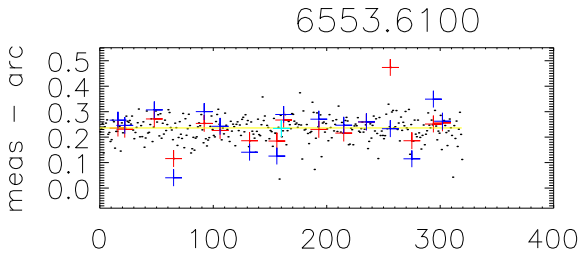

PLATE=0394 MJD=51909 Scattered Light on sdR-r1-00007936.fit
Brightness [electrons/pix]
λ [A]
Error bars denote 1σ range
Min value = -1.299
Max value = 9.071
Thu Feb 28 05:25:25 2008

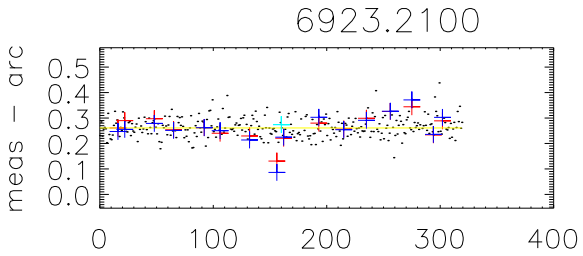

PLATE=0394 MJD=51909 Extraction chi^2 for sdR-r1-00007936.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
10
12
0
500
1000
1500
2000
Row number

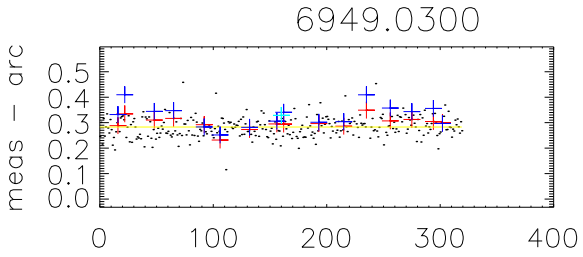

6300.3040
off: 0.26
sig: 0.003
6363.7760
off: 0.27
sig: 0.004
6553.6100
off: 0.23
sig: 0.021
6923.2100
off: 0.27
sig: 0.013
6949.0300
off: 0.33
sig: 0.012
7571.7500
off: 0.33
sig: 0.009
7794.1200
off: 0.26
sig: 0.006
7821.5100
off: 0.30
sig: 0.005
8399.1600
off: 0.34
sig: 0.004
8430.1700
off: 0.33
sig: 0.004
8885.8300
off: 0.34
sig: 0.004
8919.6100
off: 0.35
sig: 0.004

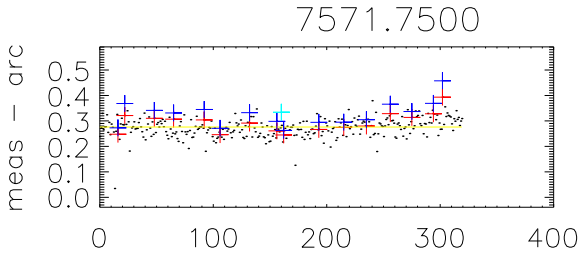

6300.3040
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

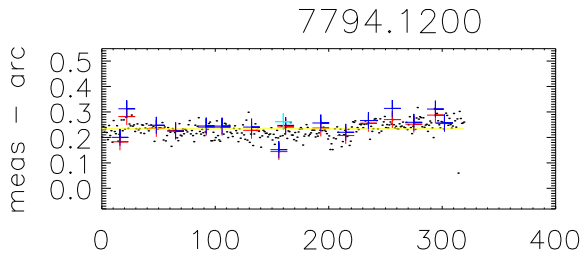

6363.7760
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

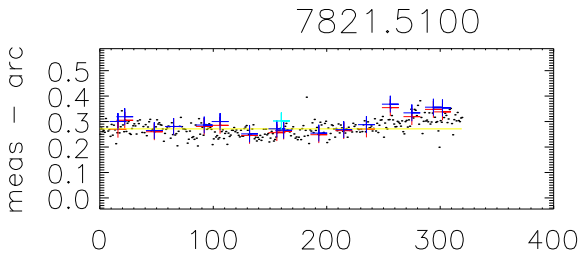

6553.6100
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

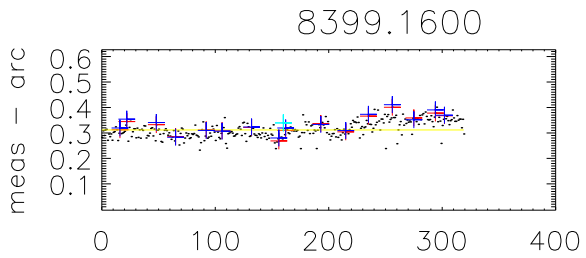

6923.2100
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

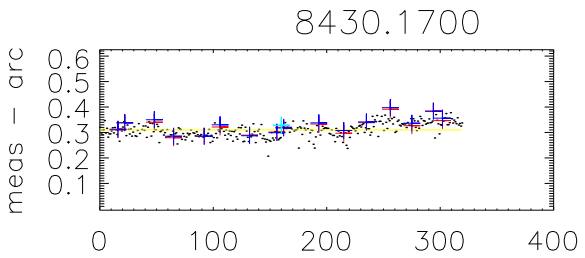

6949.0300
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

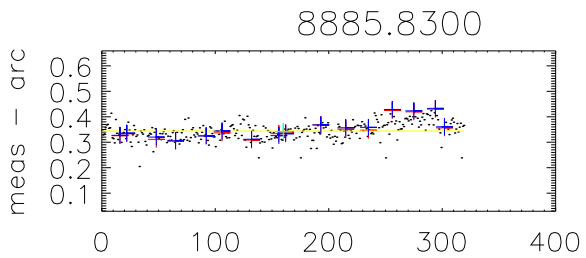

7571.7500
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

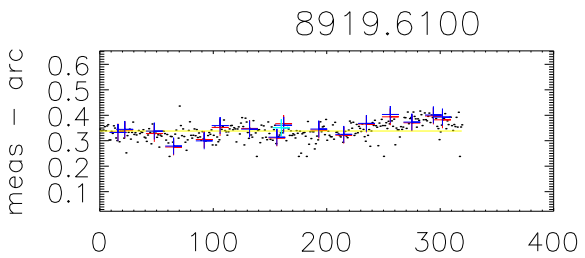

7794.1200
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

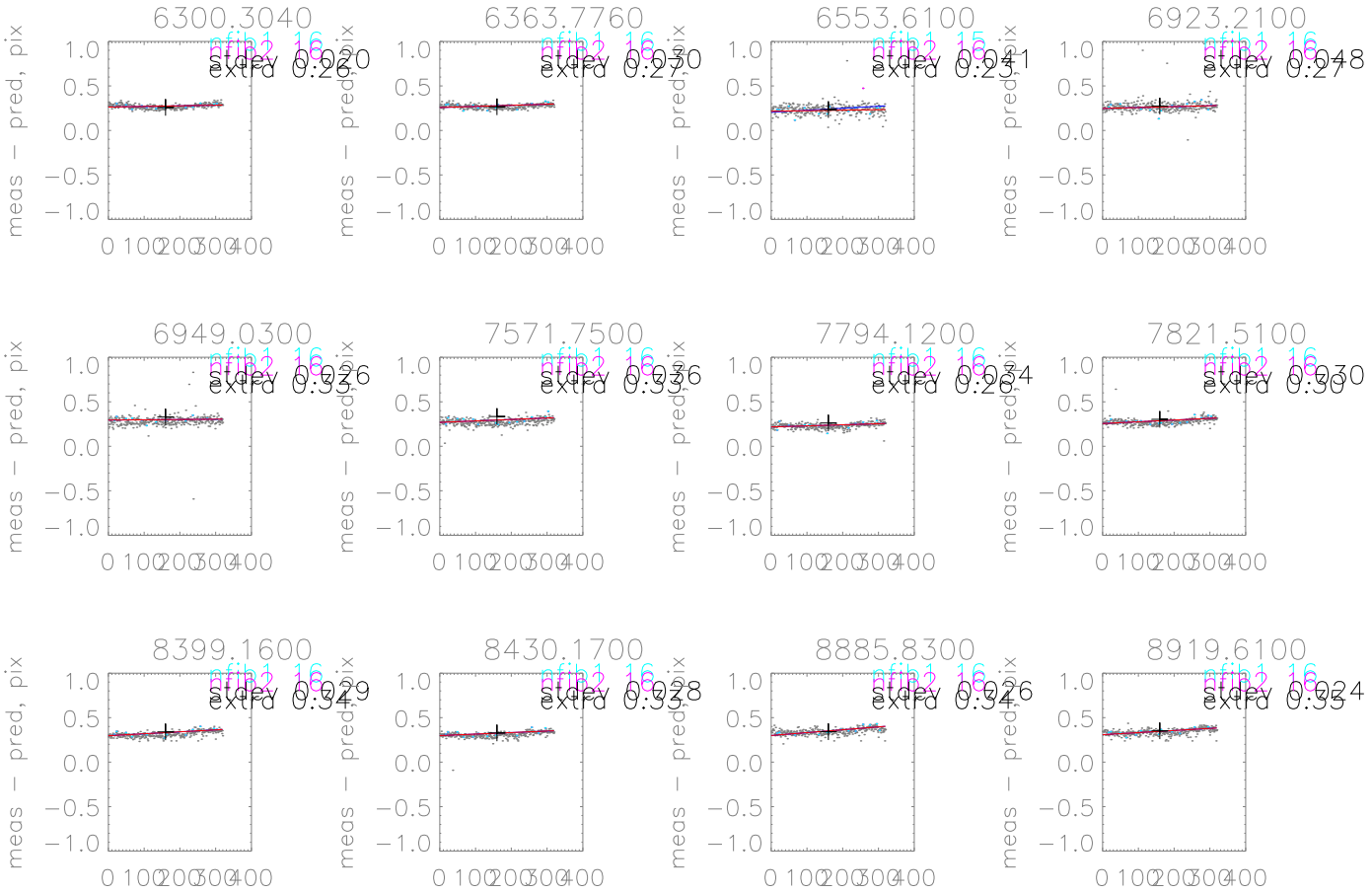

7821.5100
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

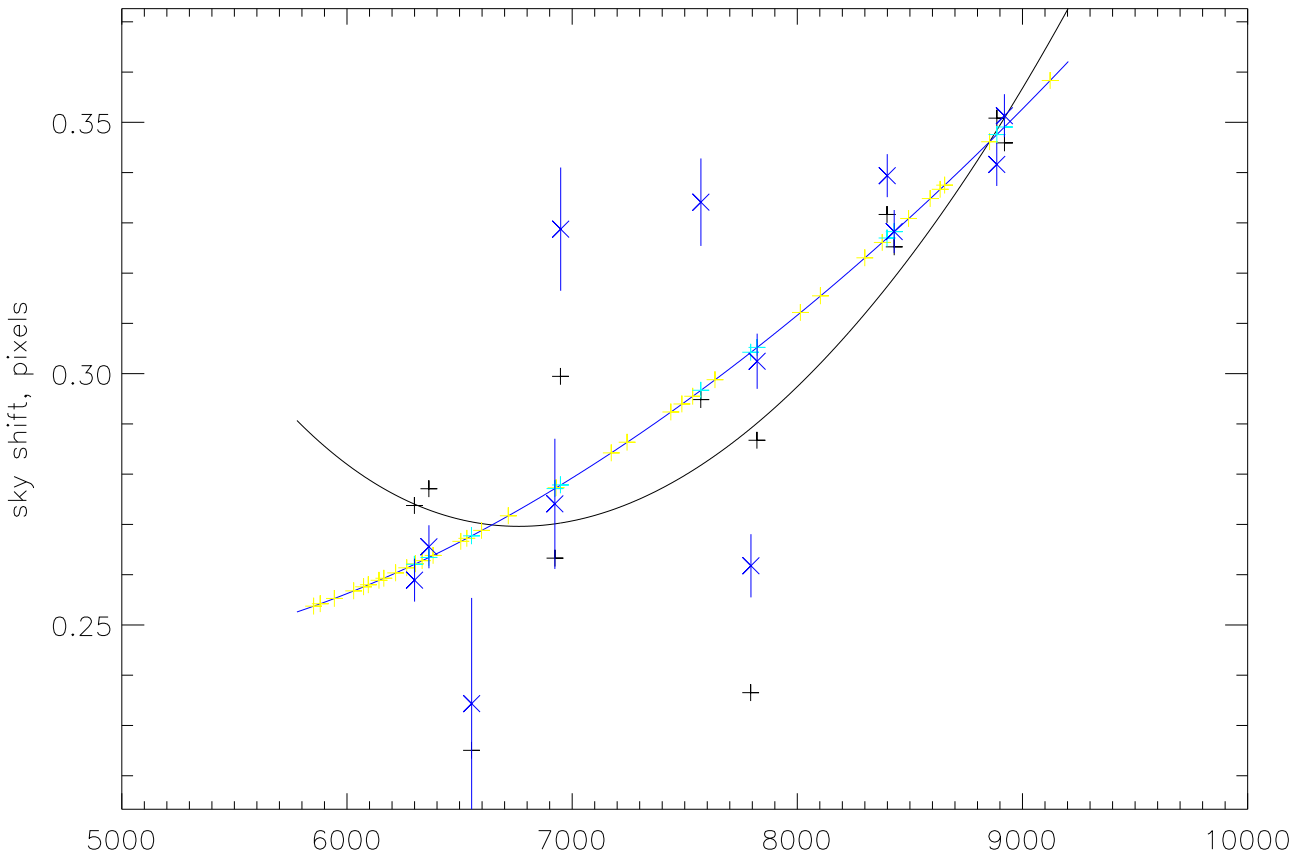

8399.1600
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

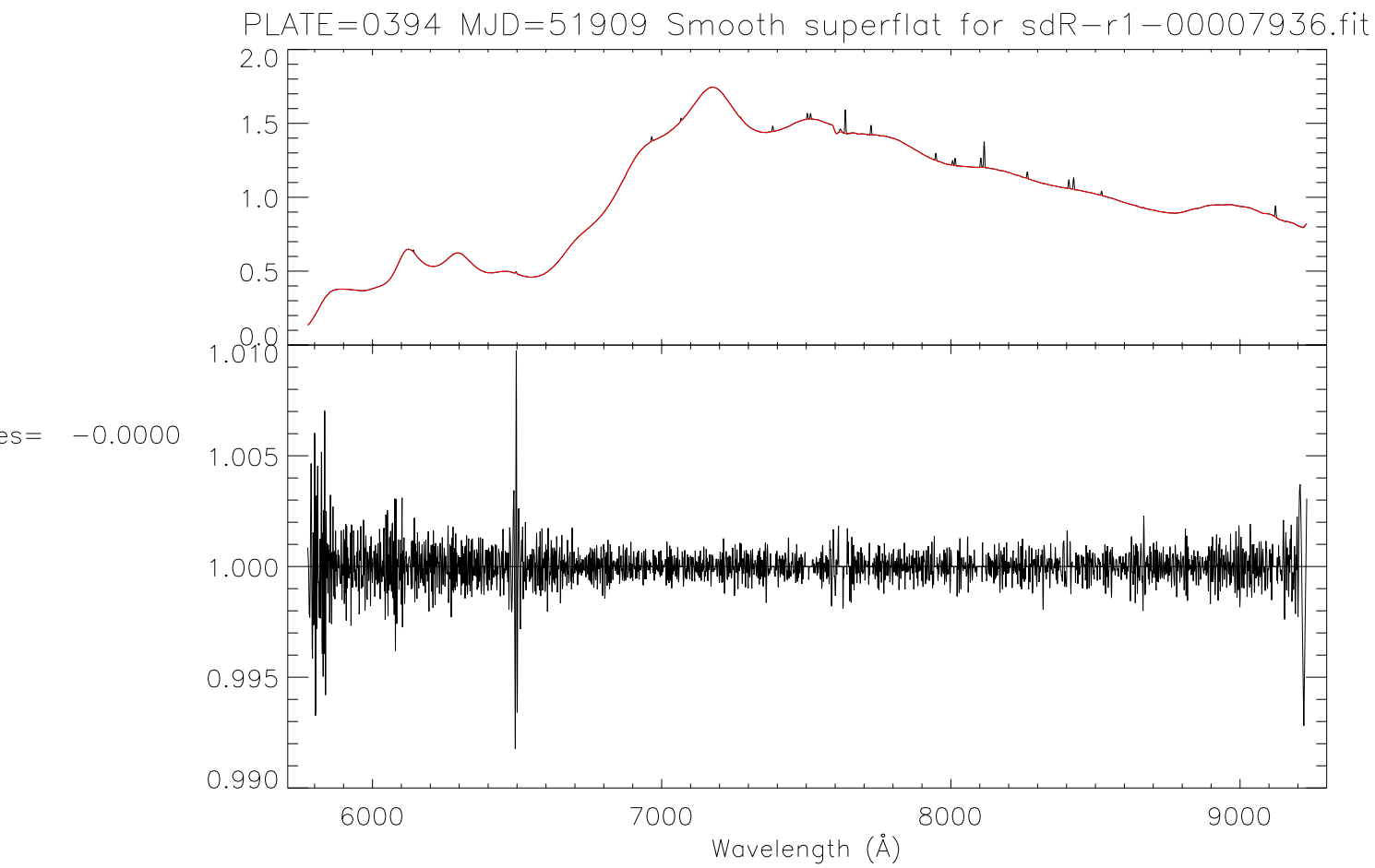

8430.1700
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400


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

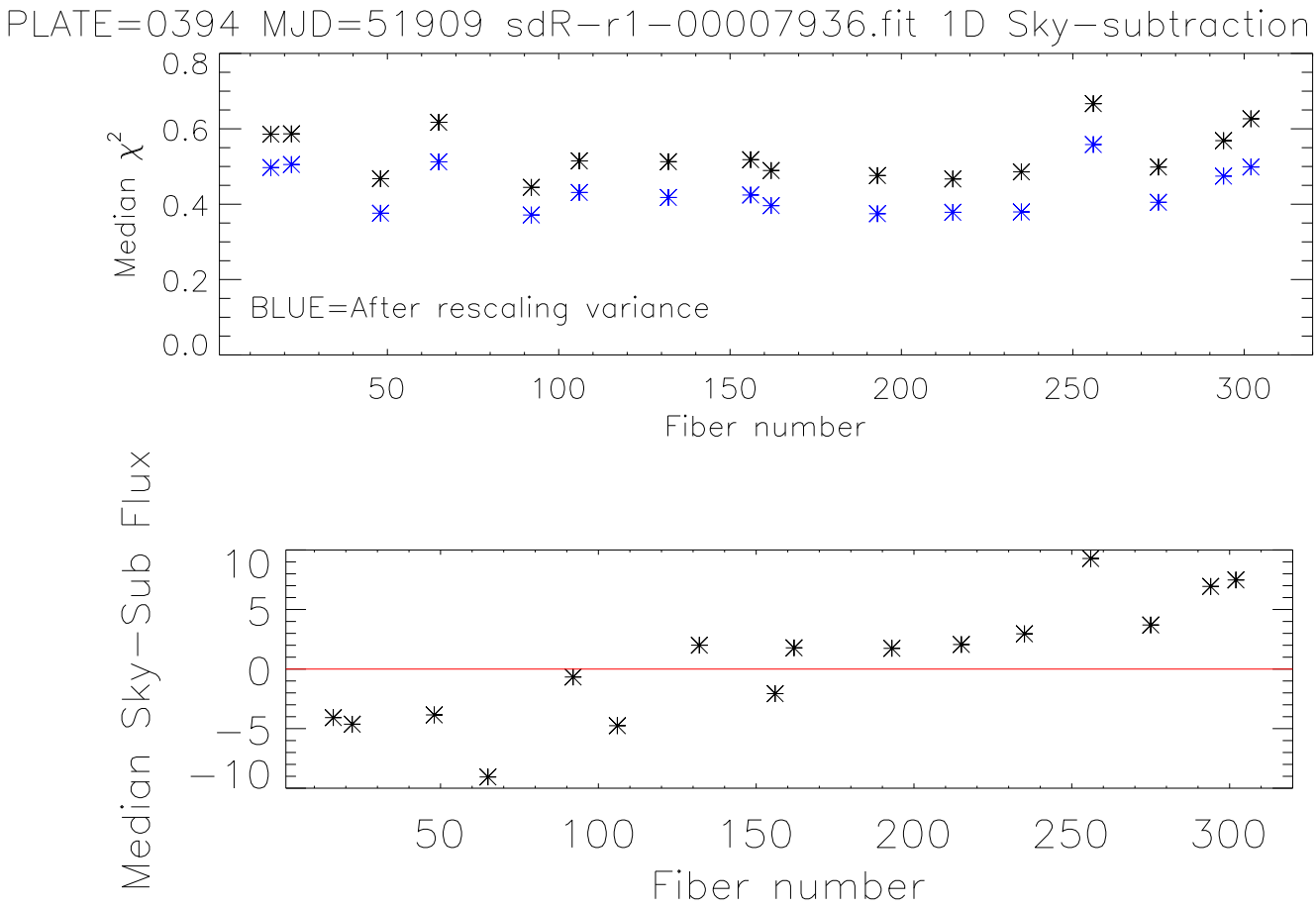

8919.6100
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

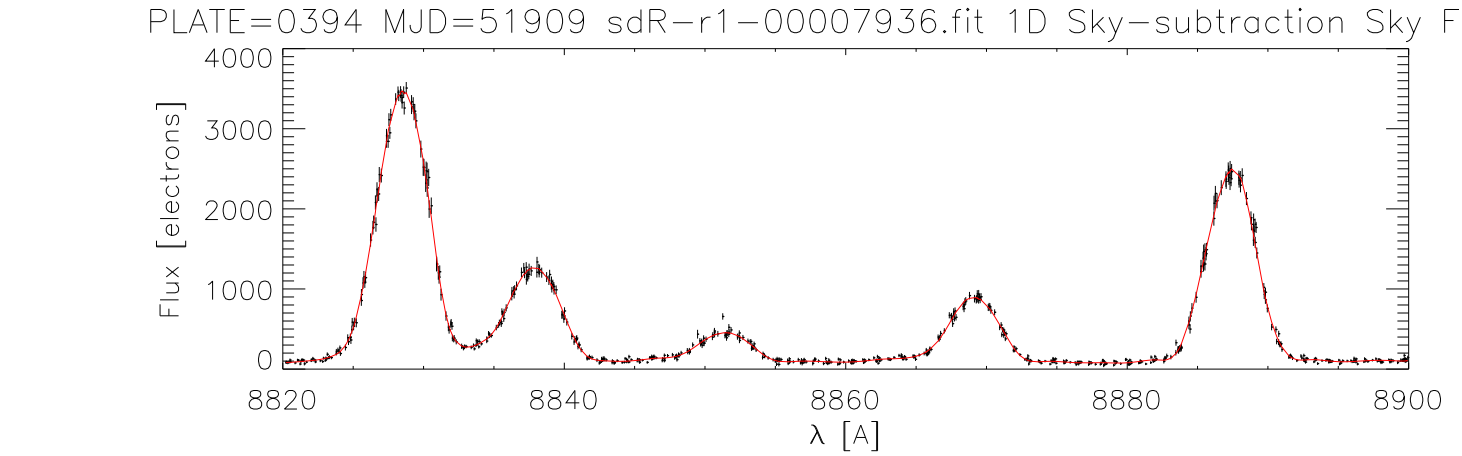

6300.3040
stdev 0.020
extra 0.26
6363.7760
stdev 0.030
extra 0.27
6553.6100
stdev 0.041
extra 0.23
6923.2100
stdev 0.048
extra 0.27
6949.0300
stdev 0.026
extra 0.33
7571.7500
stdev 0.036
extra 0.33
7794.1200
stdev 0.034
extra 0.26
7821.5100
stdev 0.030
extra 0.30
8399.1600
stdev 0.029
extra 0.34
8430.1700
stdev 0.028
extra 0.33
8885.8300
stdev 0.026
extra 0.34
8919.6100
stdev 0.024
extra 0.35
meas − pred, pix
mfhd2 16
mfhd1 16
mfhd2 15

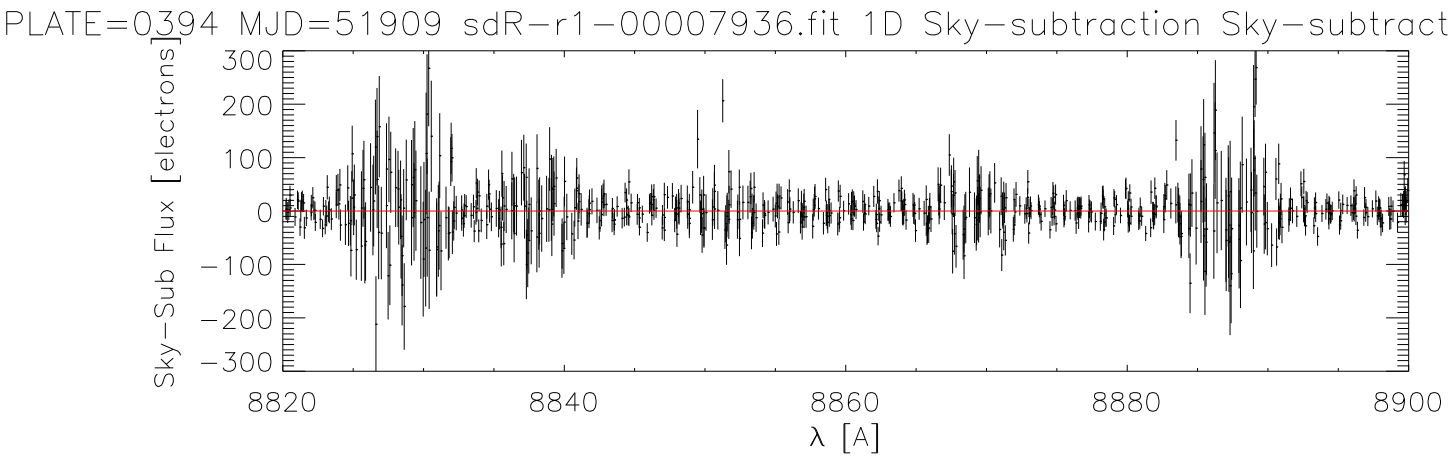

sky shift, pixels
0.35
0.30
0.25
5000
6000
7000
8000
9000
10000

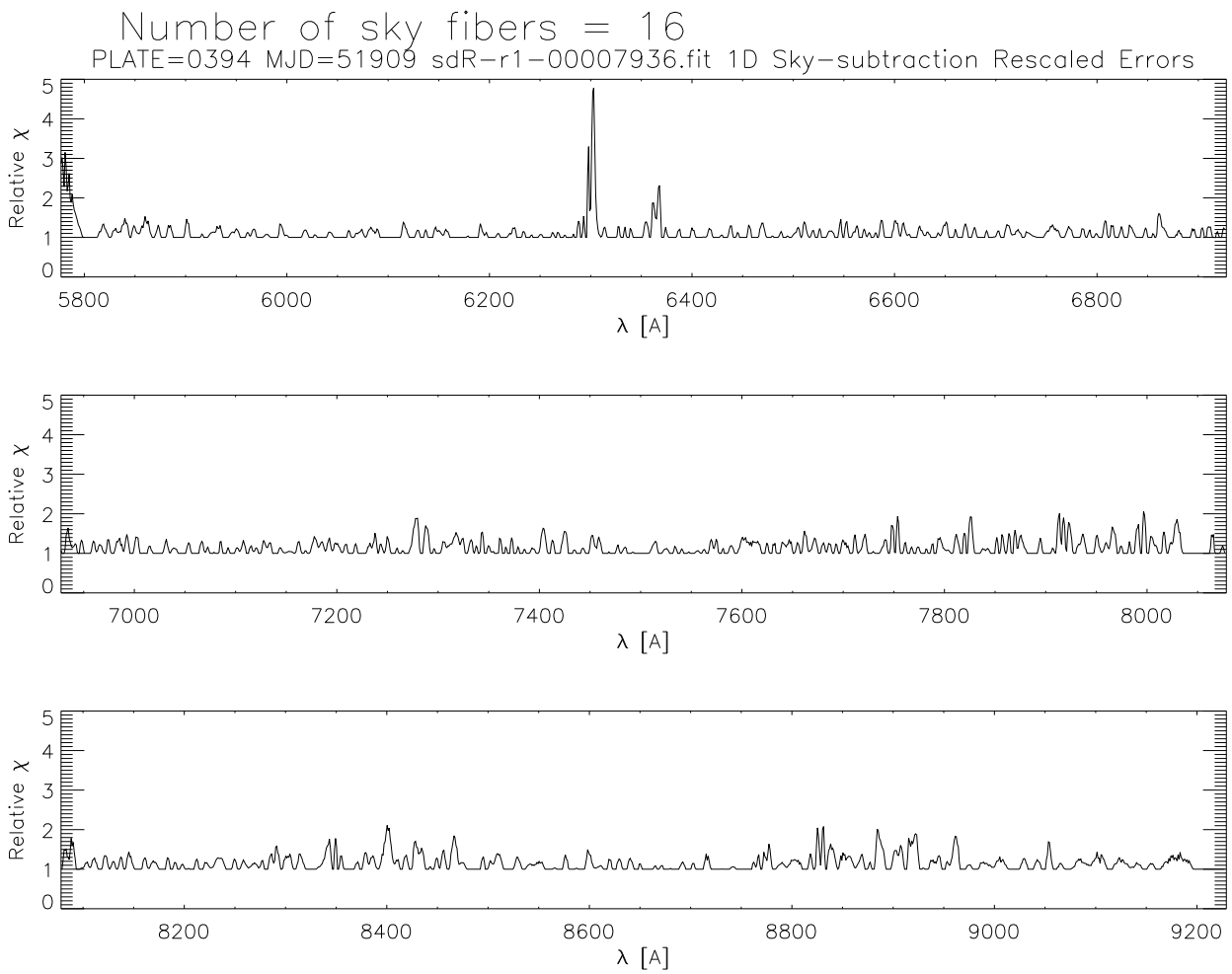

PLATE=0394 MJD=51909 Smooth superflat for sdR-r1-00007936.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

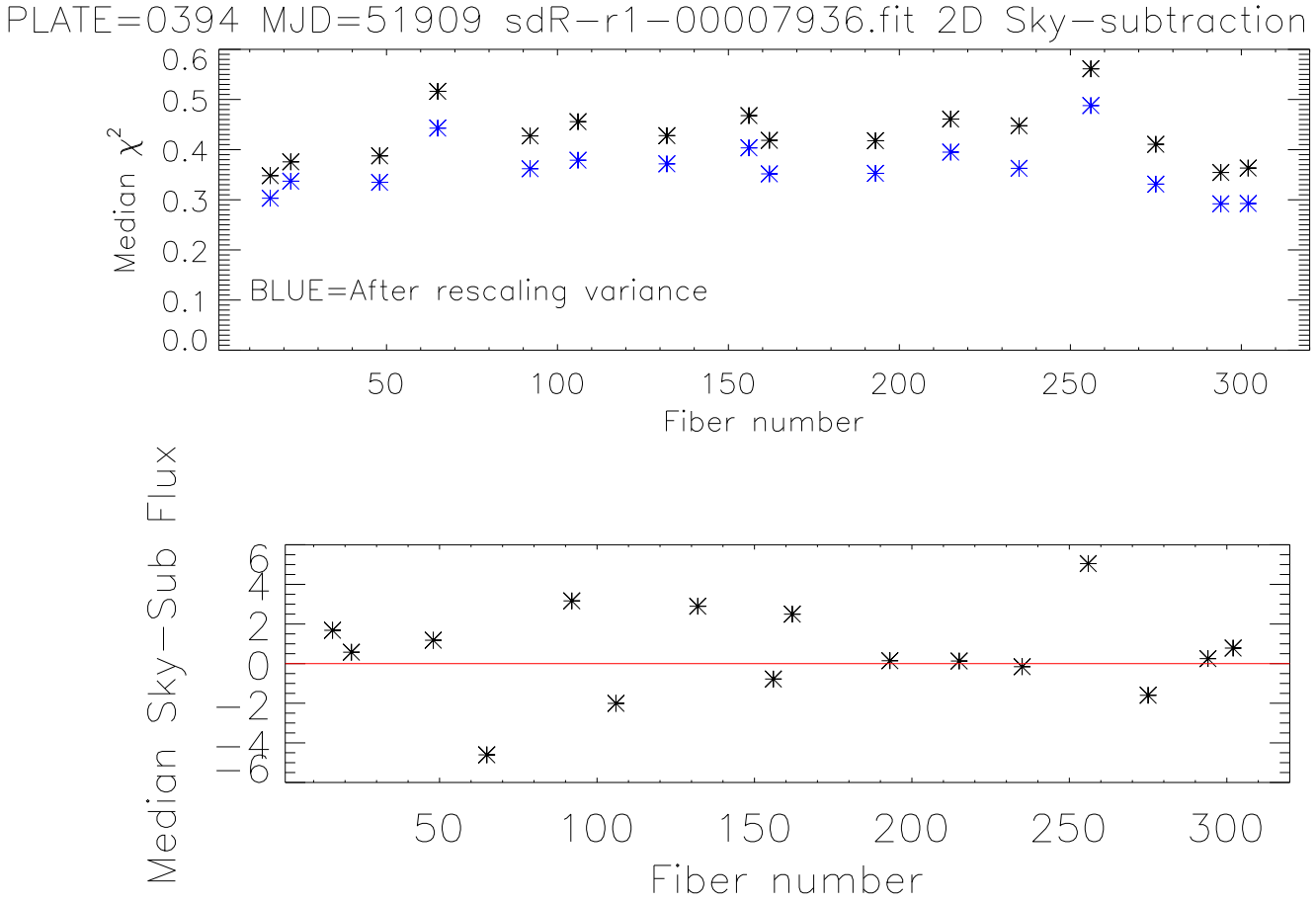
es= −0.0000

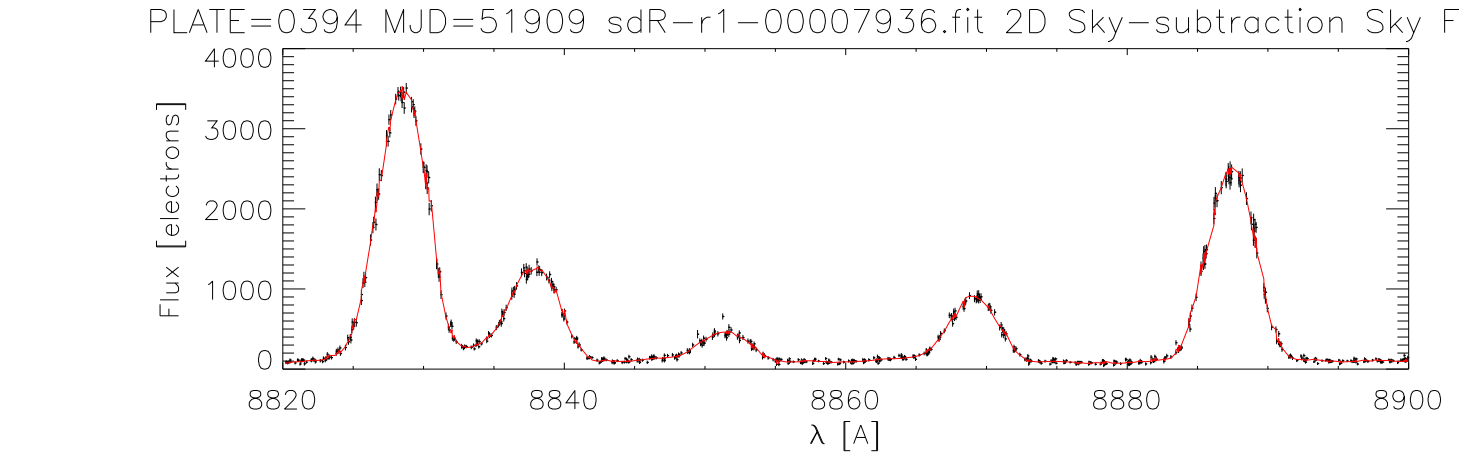

PLATE=0394 MJD=51909 sdR-r1-00007936.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

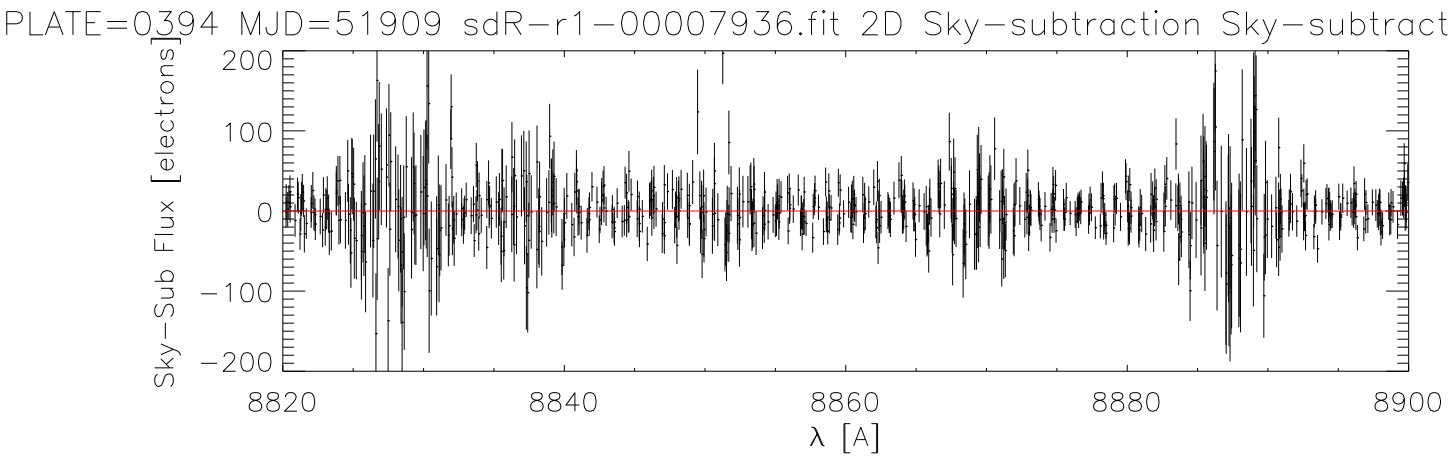

PLATE=0394 MJD=51909 sdR-r1-00007936.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

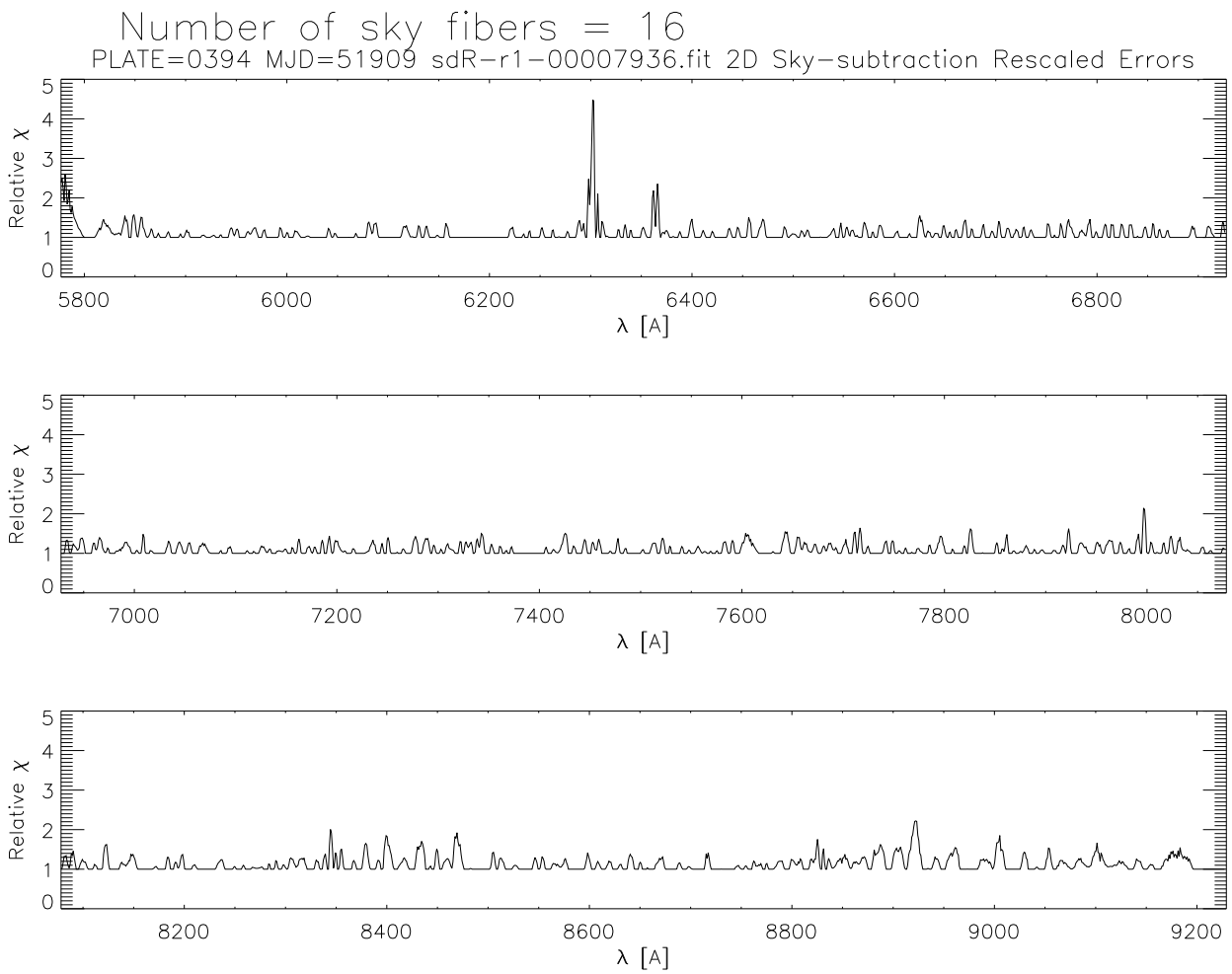

PLATE=0394 MJD=51909 sdR-r1-00007936.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

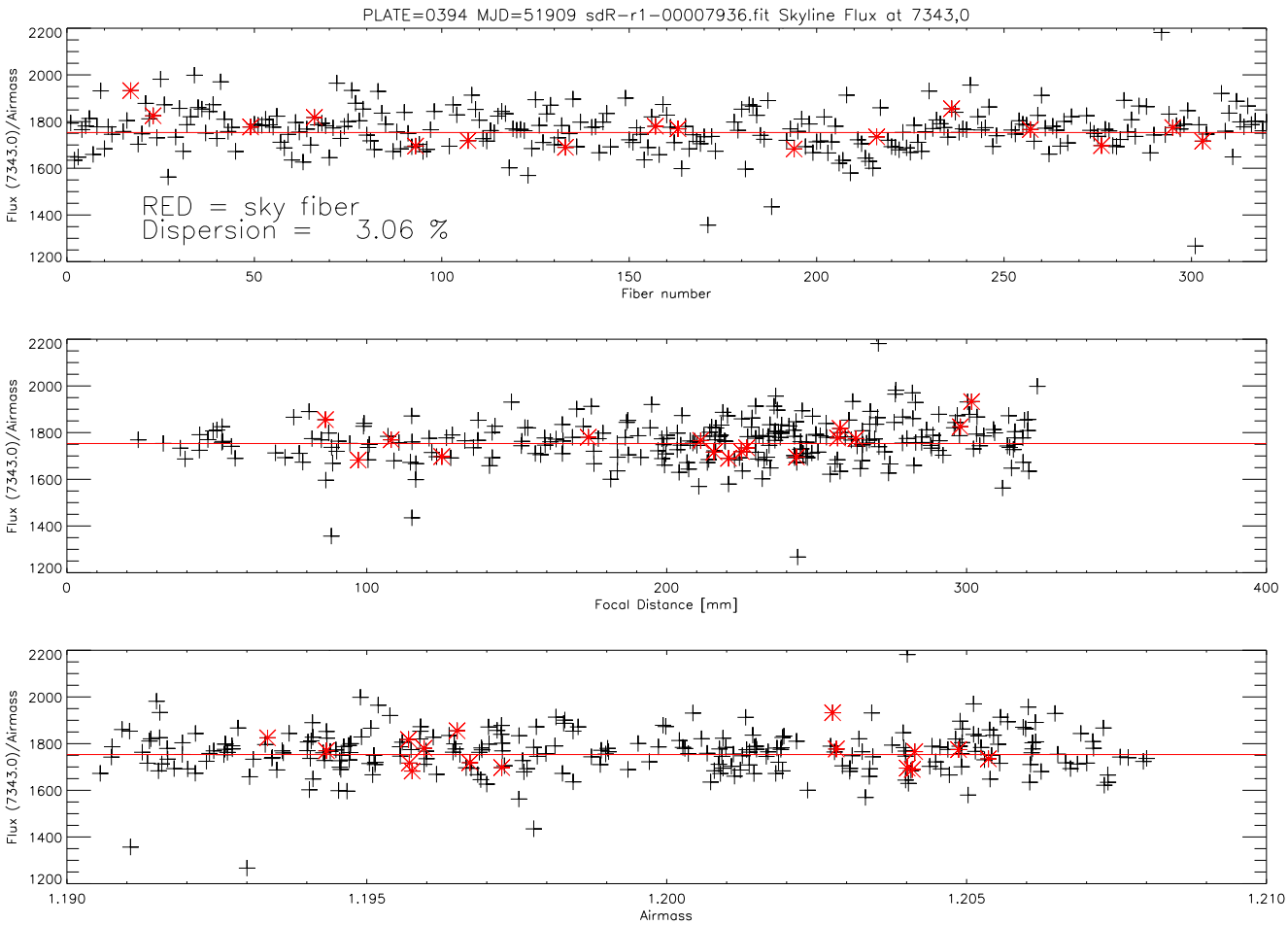

Number of sky fibers = 16
PLATE=0394 MJD=51909 sdR-r1-00007936.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

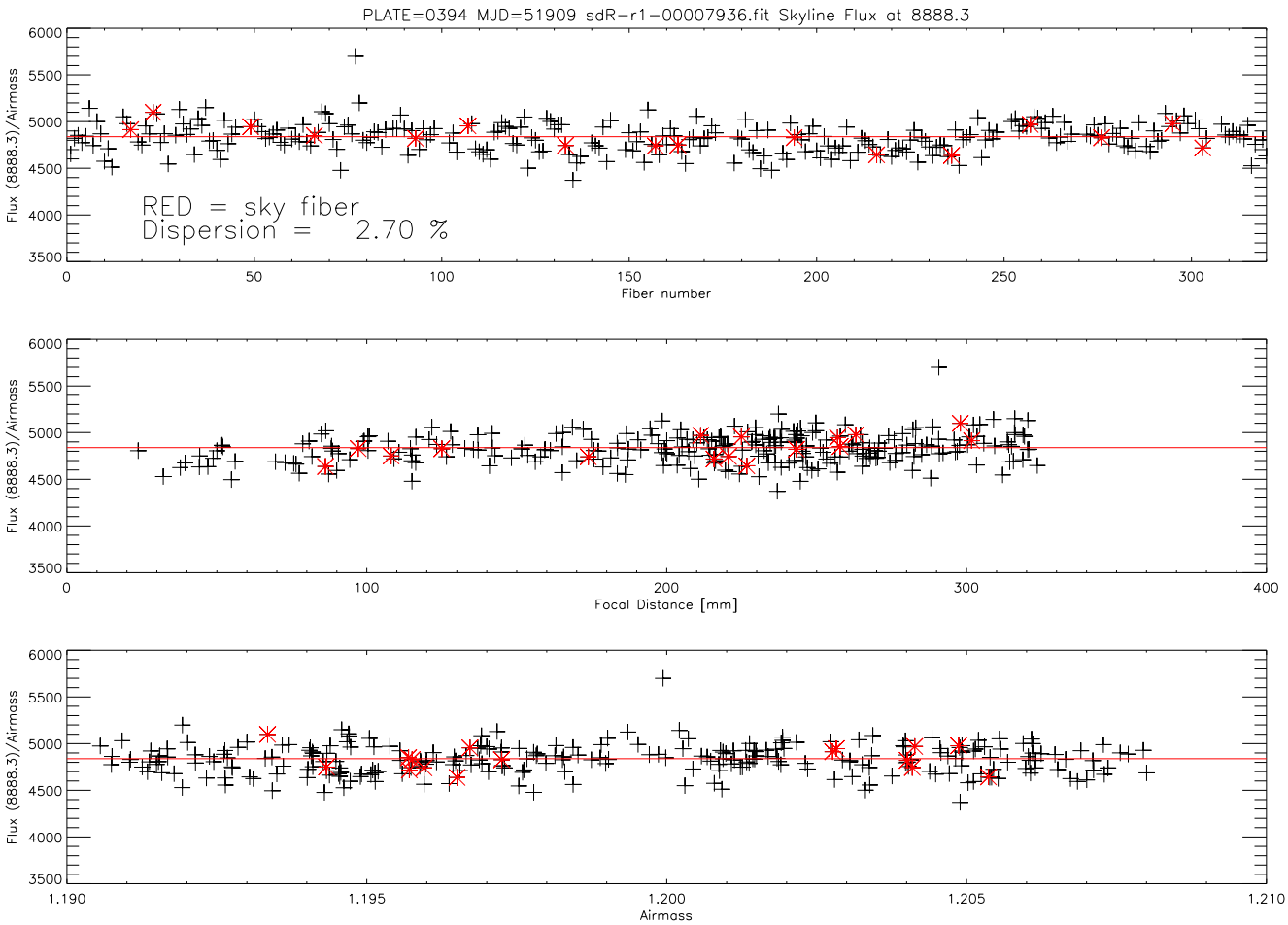

PLATE=0394 MJD=51909 sdR-r1-00007936.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

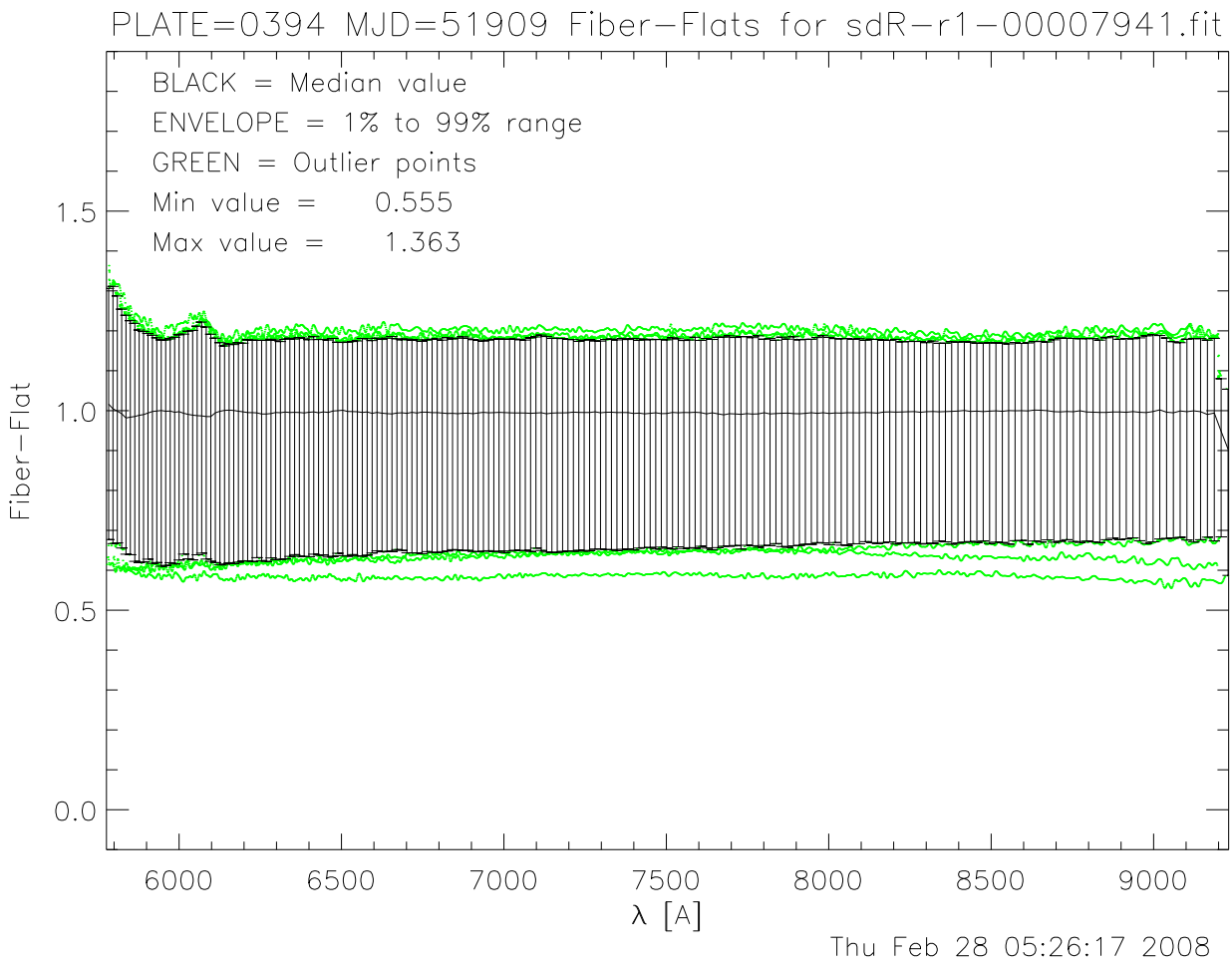

PLATE=0394 MJD=51909 sdR-r1-00007936.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

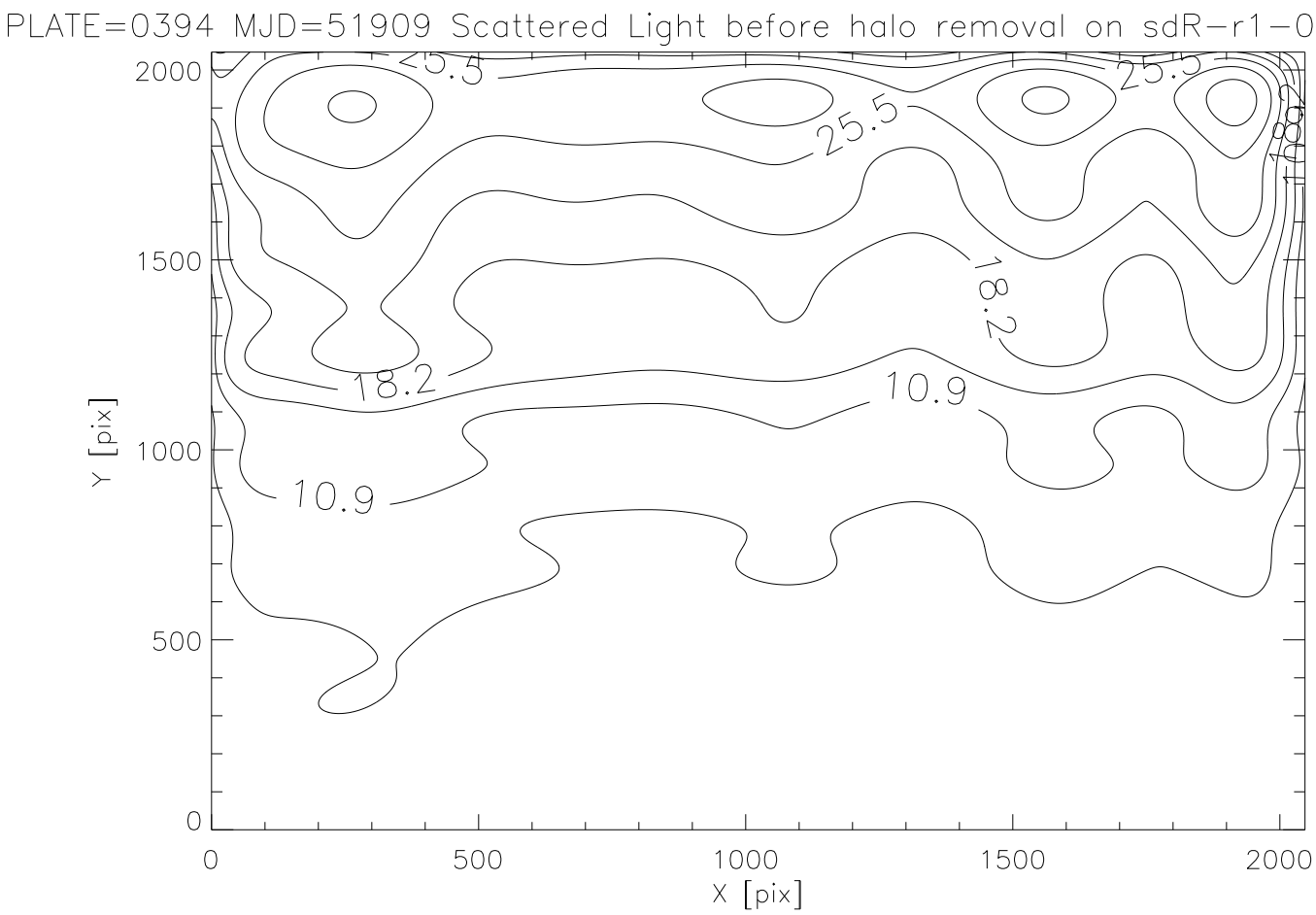

PLATE=0394 MJD=51909 sdR-r1-00007936.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

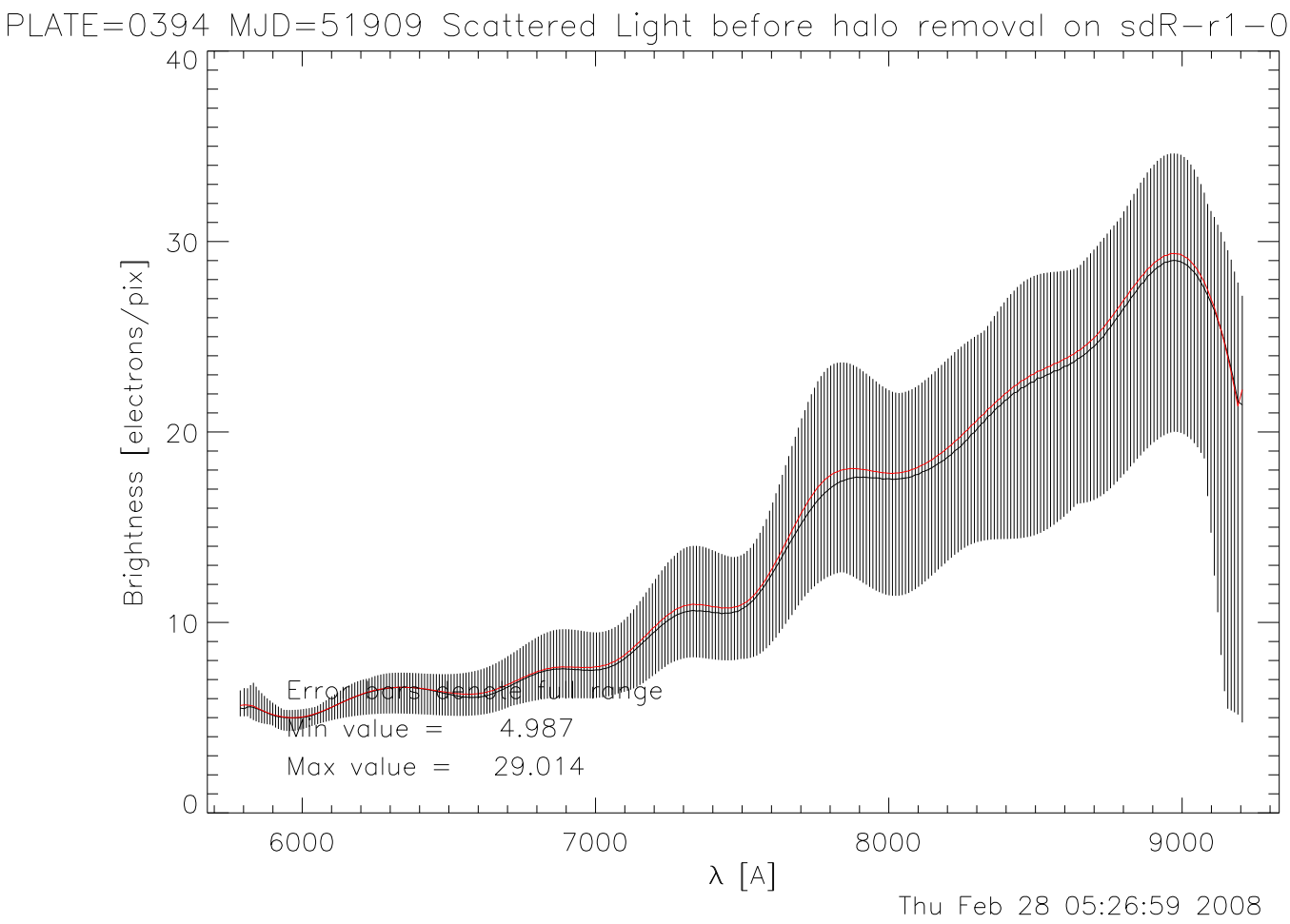

Number of sky fibers = 16
PLATE=0394 MJD=51909 sdR-r1-00007936.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

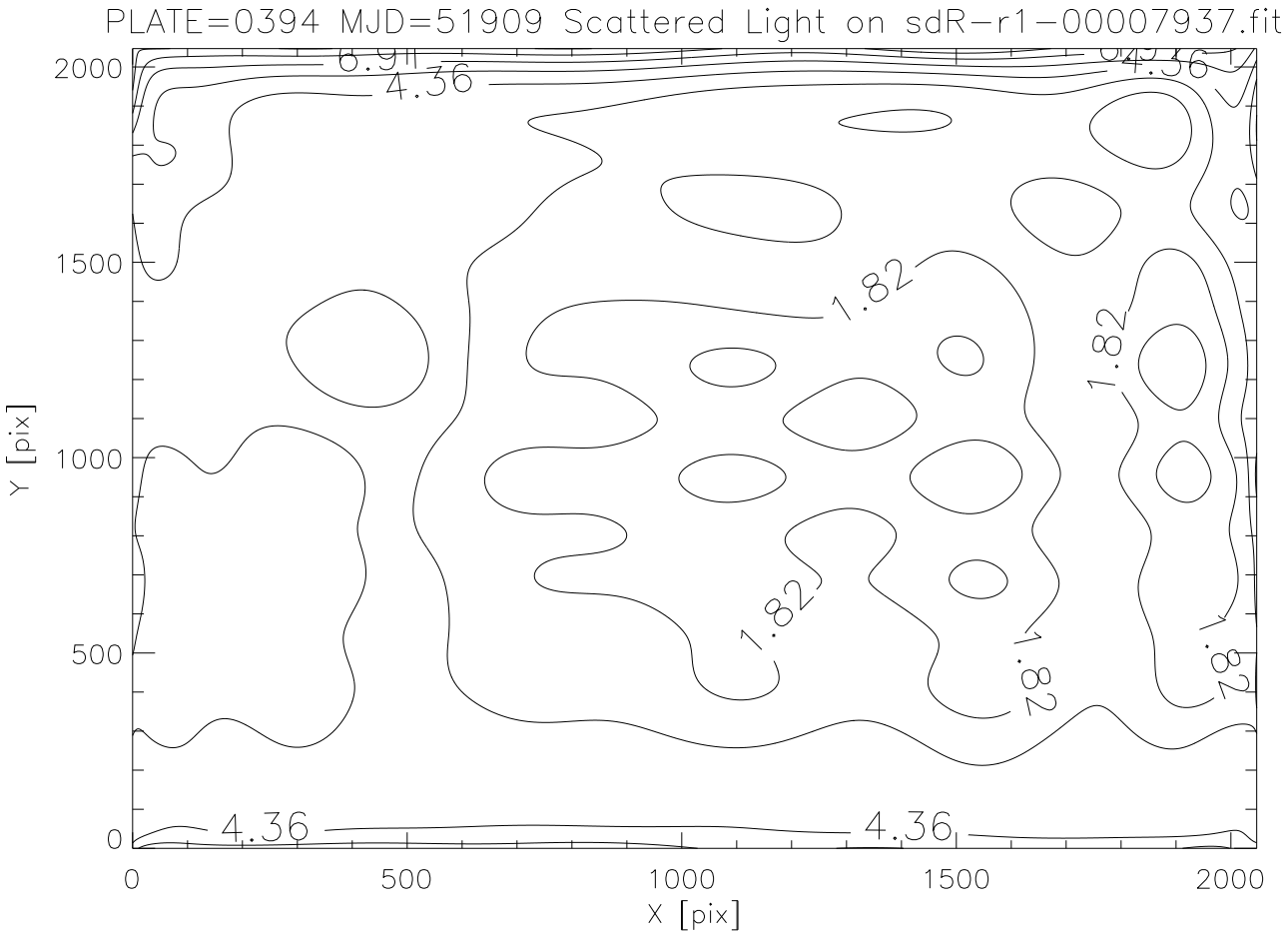

PLATE=0394 MJD=51909 sdR-r1-00007936.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.06 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

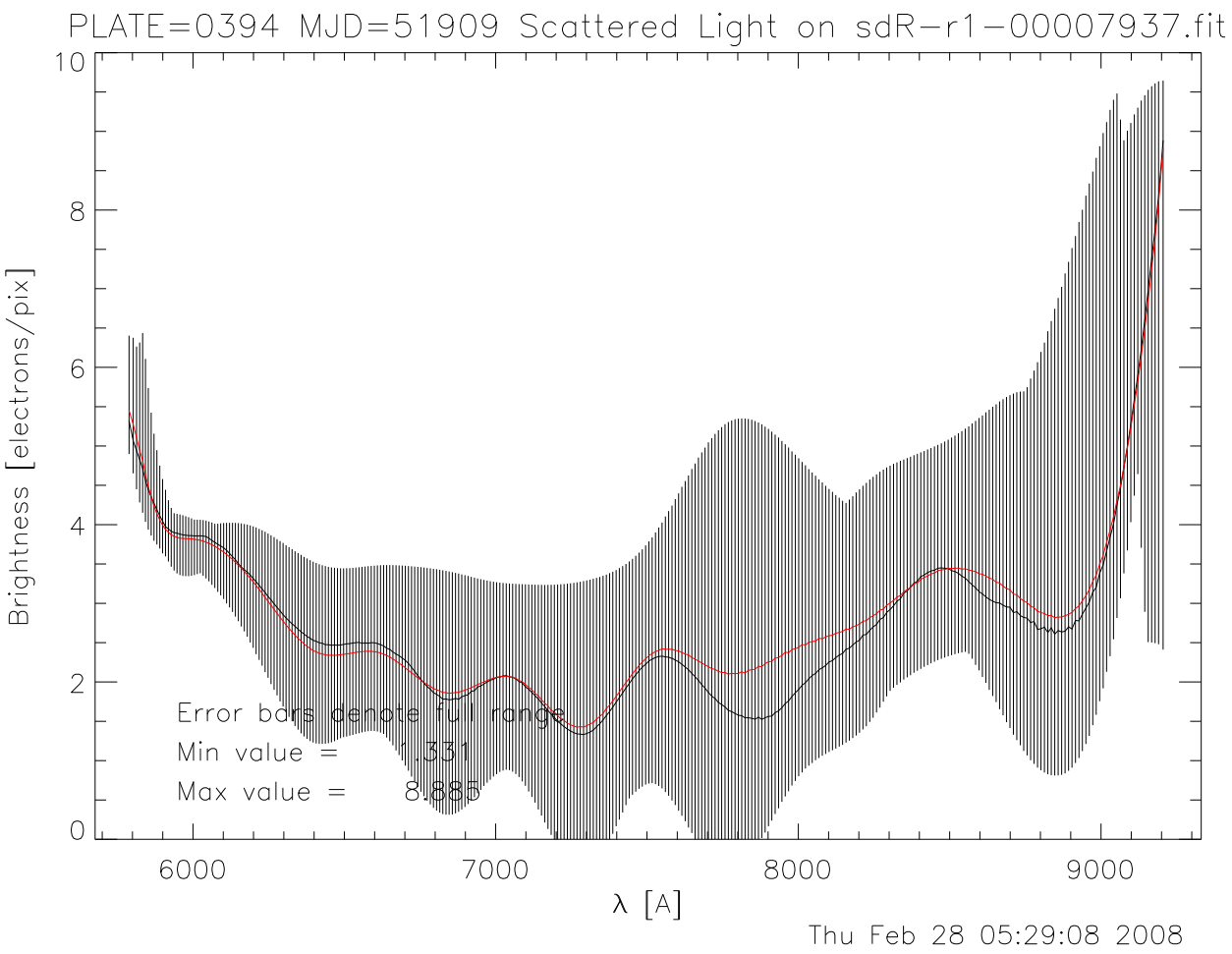

PLATE=0394 MJD=51909 sdR-r1-00007936.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.70 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

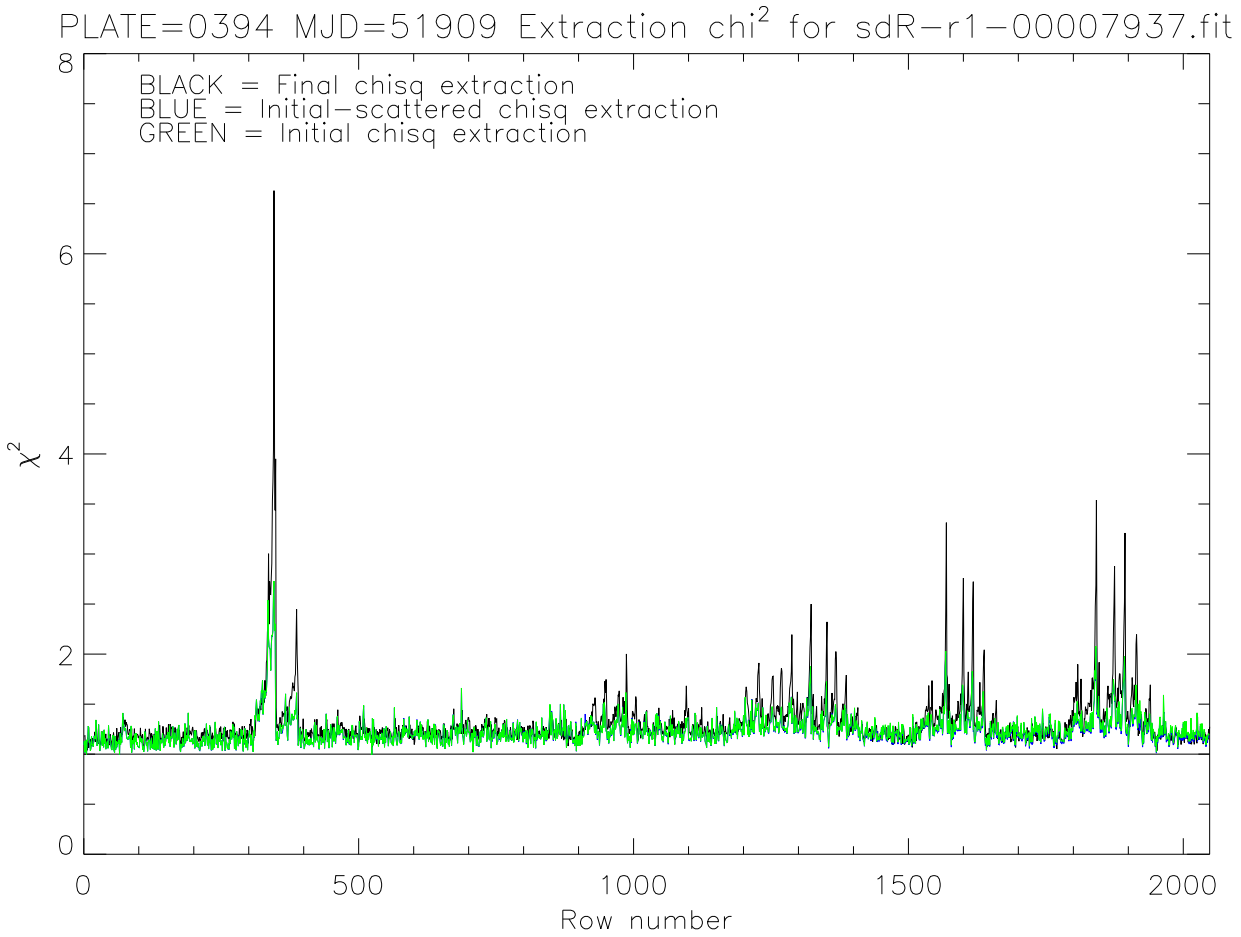

PLATE=0394 MJD=51909 Fiber−Flats for sdR−r1−00007941.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.555
Max value = 1.363
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Thu Feb 28 05:26:17 2008

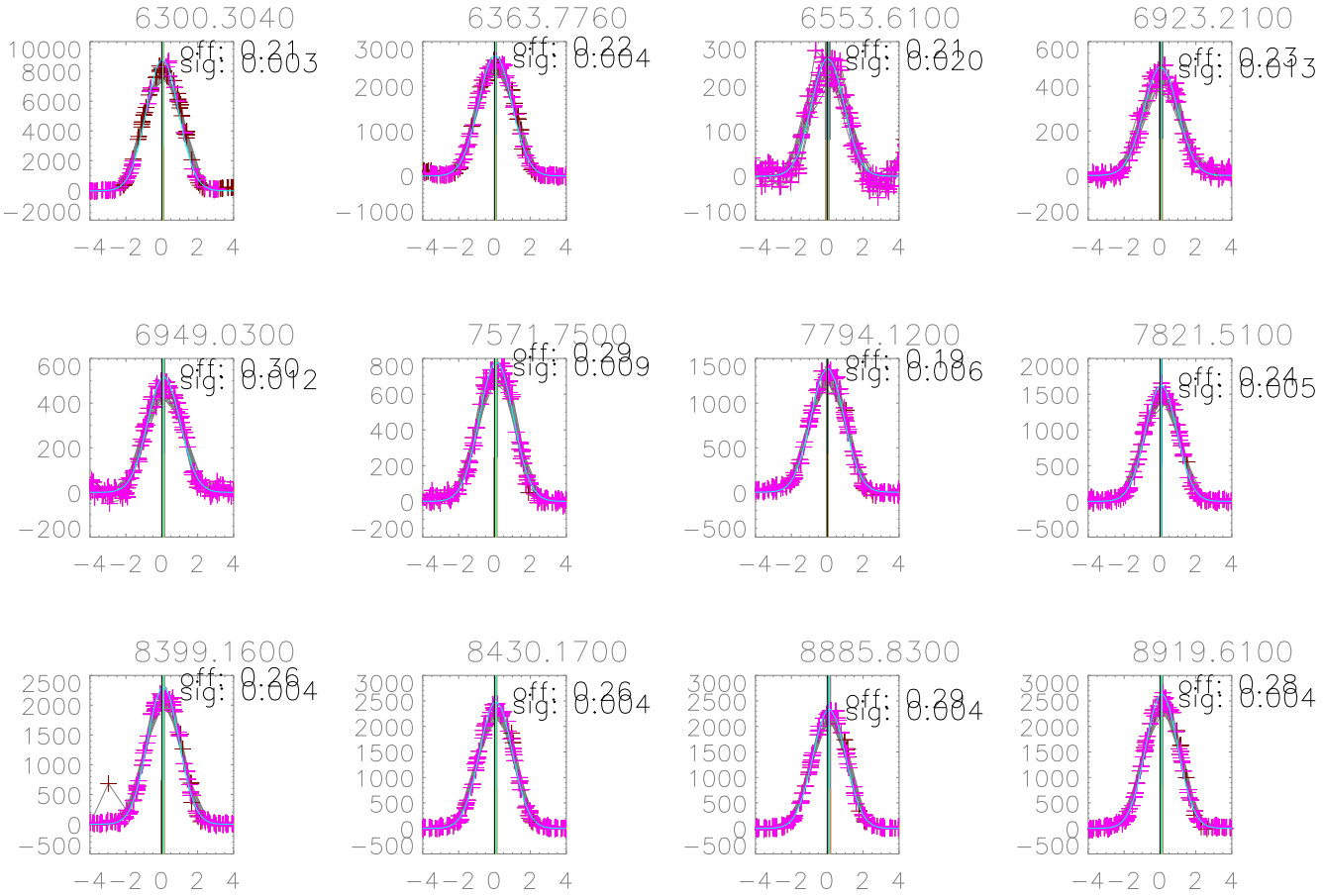

PLATE=0394 MJD=51909 Scattered Light before halo removal on sdR-r1-00007937.fi
25.5
25.5
25.5
18.2
18.2
18.2
10.9
10.9
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

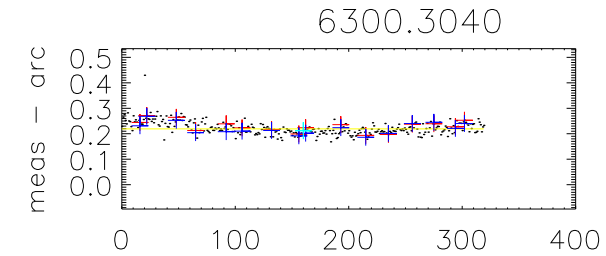

PLATE=0394 MJD=51909 Scattered Light before halo removal on sdR-r1-00007937.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.987
Max value = 29.014
Thu Feb 28 05:26:59 2008

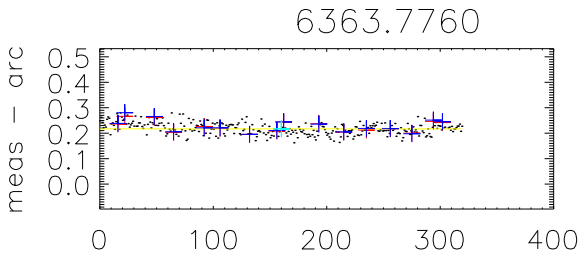

PLATE=0394 MJD=51909 Scattered Light on sdR-r1-00007937.fit
8.91
4.36
4.36
4.36
1.82
1.82
1.82
1.82
1.82
4.36
4.36
Y [pix]
X [pix]
0
500
1000
1500
2000

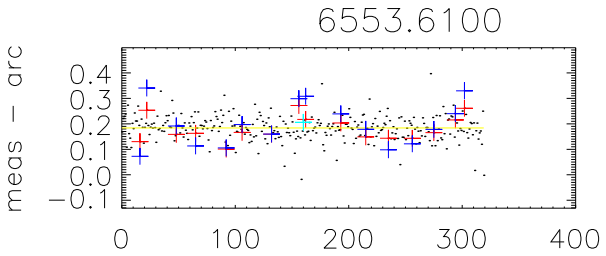

PLATE=0394 MJD=51909 Scattered Light on sdR-r1-00007937.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = -1.331
Max value = 8.885
Thu Feb 28 05:29:08 2008

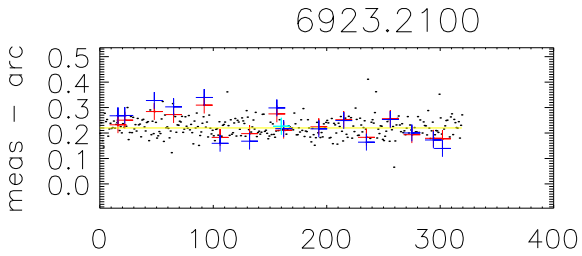

PLATE=0394 MJD=51909 Extraction chi^2 for sdR−r1−00007937.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

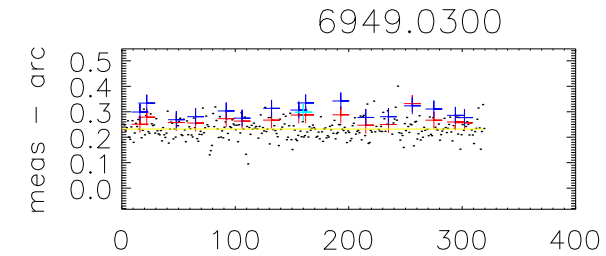

6300.3040
off: 0.21
sig: 0.003
6363.7760
off: 0.22
sig: 0.004
6553.6100
off: 0.21
sig: 0.020
6923.2100
off: 0.23
sig: 0.013
6949.0300
off: 0.30
sig: 0.012
7571.7500
off: 0.29
sig: 0.009
7794.1200
off: 0.18
sig: 0.006
7821.5100
off: 0.24
sig: 0.005
8399.1600
off: 0.26
sig: 0.004
8430.1700
off: 0.26
sig: 0.004
8885.8300
off: 0.28
sig: 0.004
8919.6100
off: 0.28
sig: 0.004

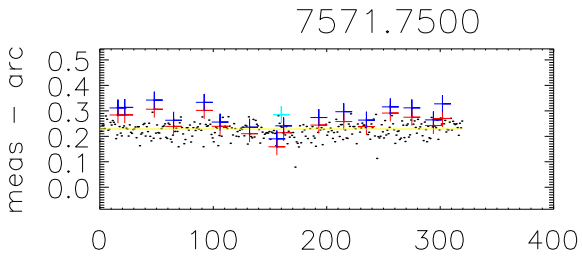

6300.3040
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

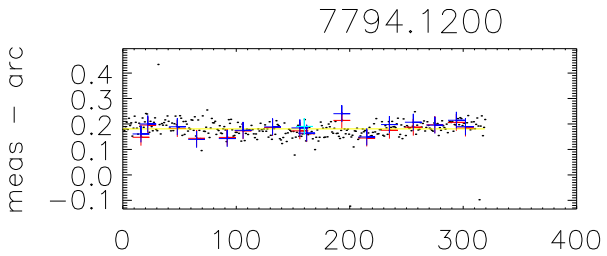

6363.7760
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

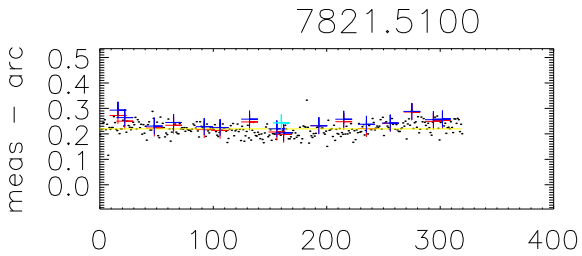

6553.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

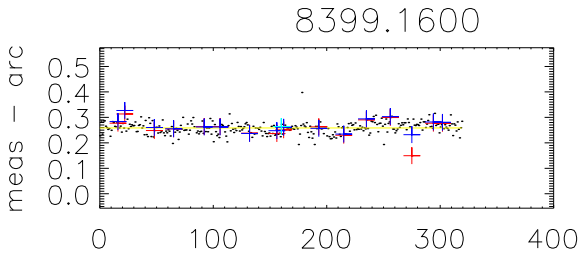

6923.2100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

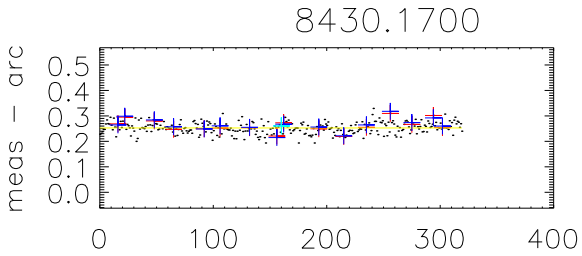

6949.0300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

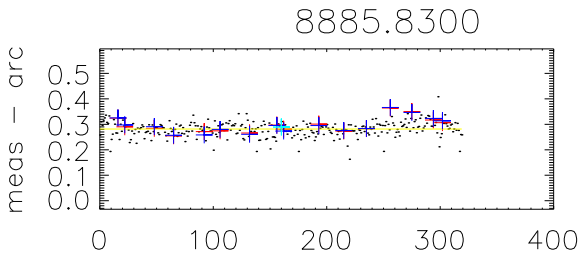

7571.7500
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

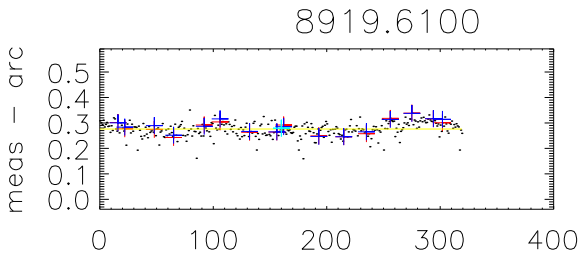

7794.1200
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

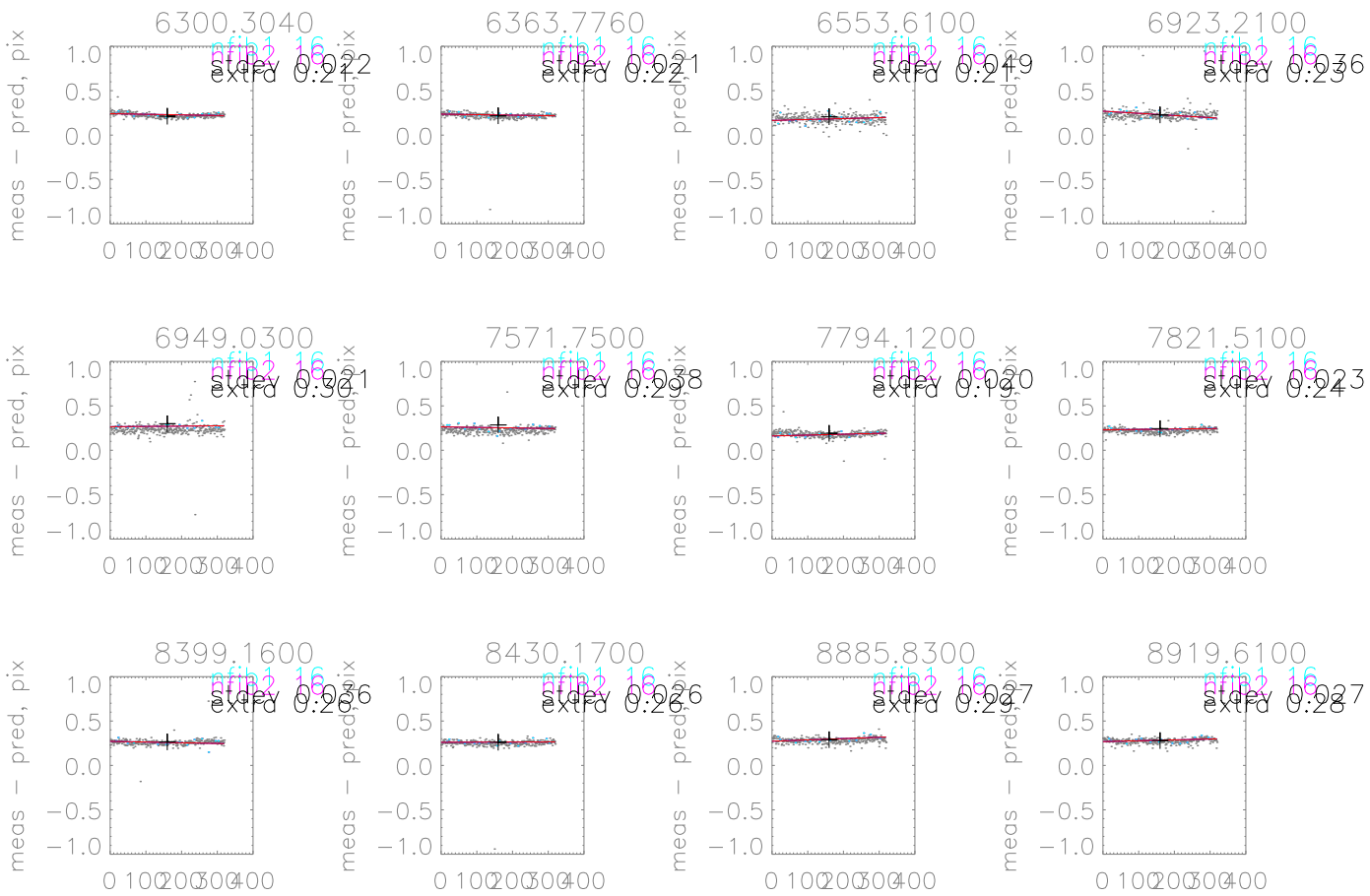

7821.5100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

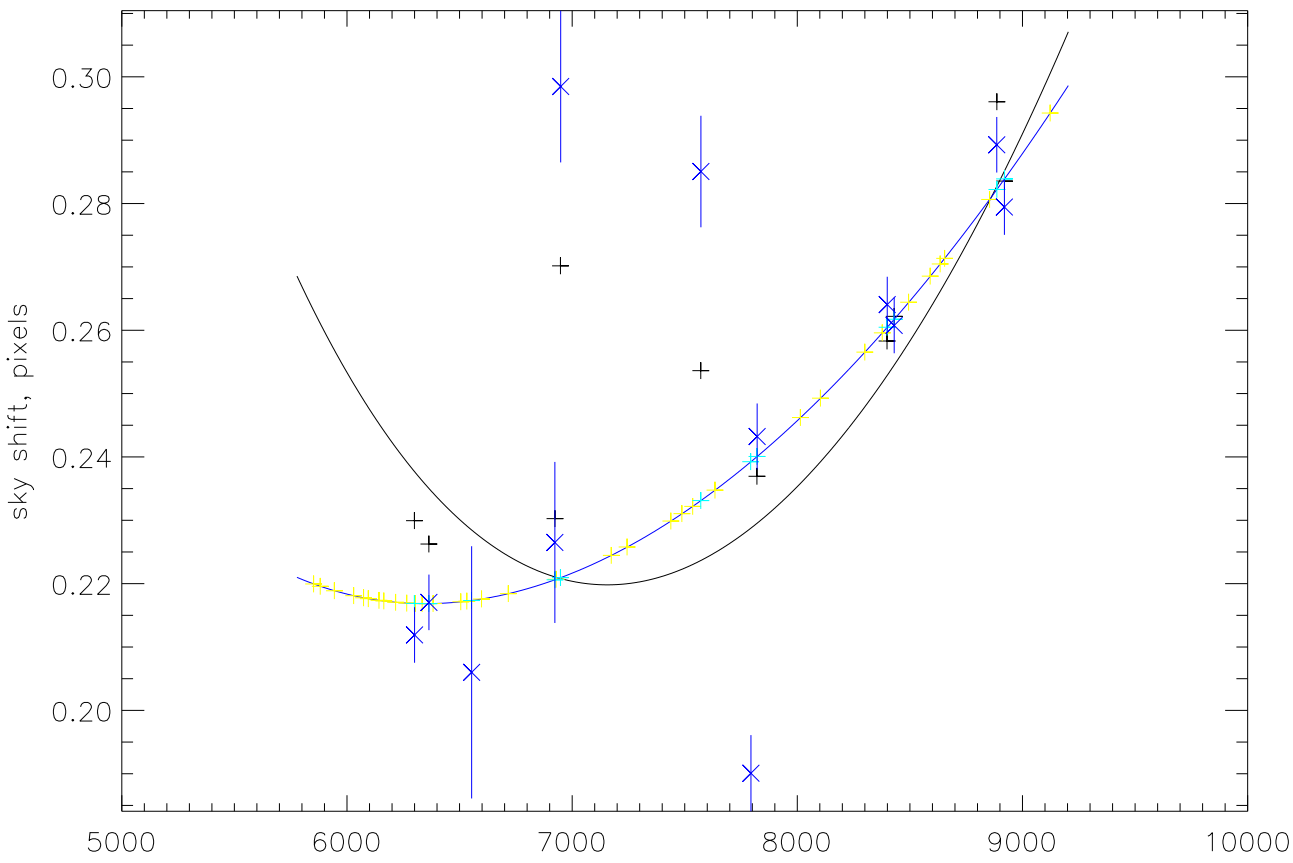

8399.1600
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

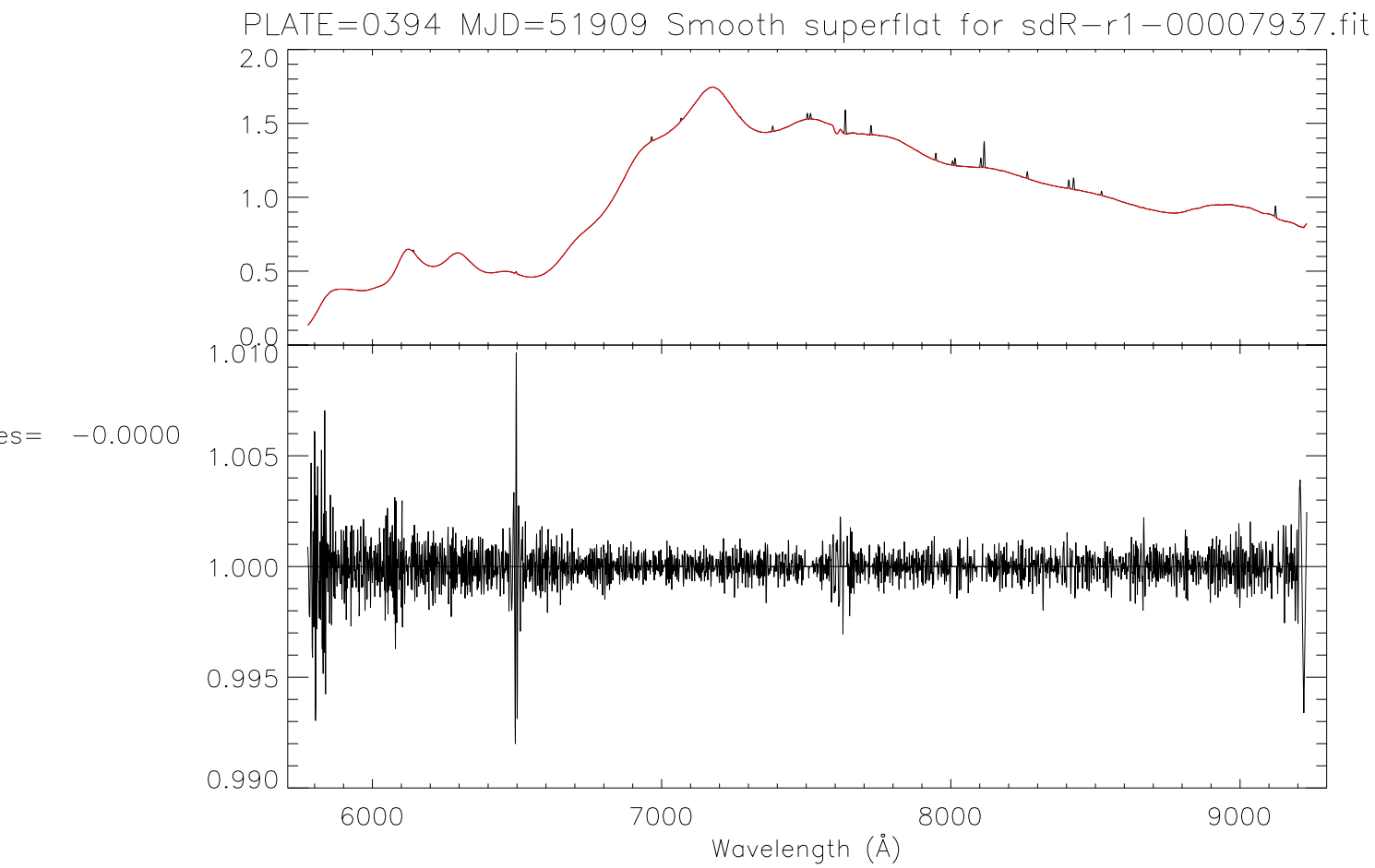

8430.1700
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400


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

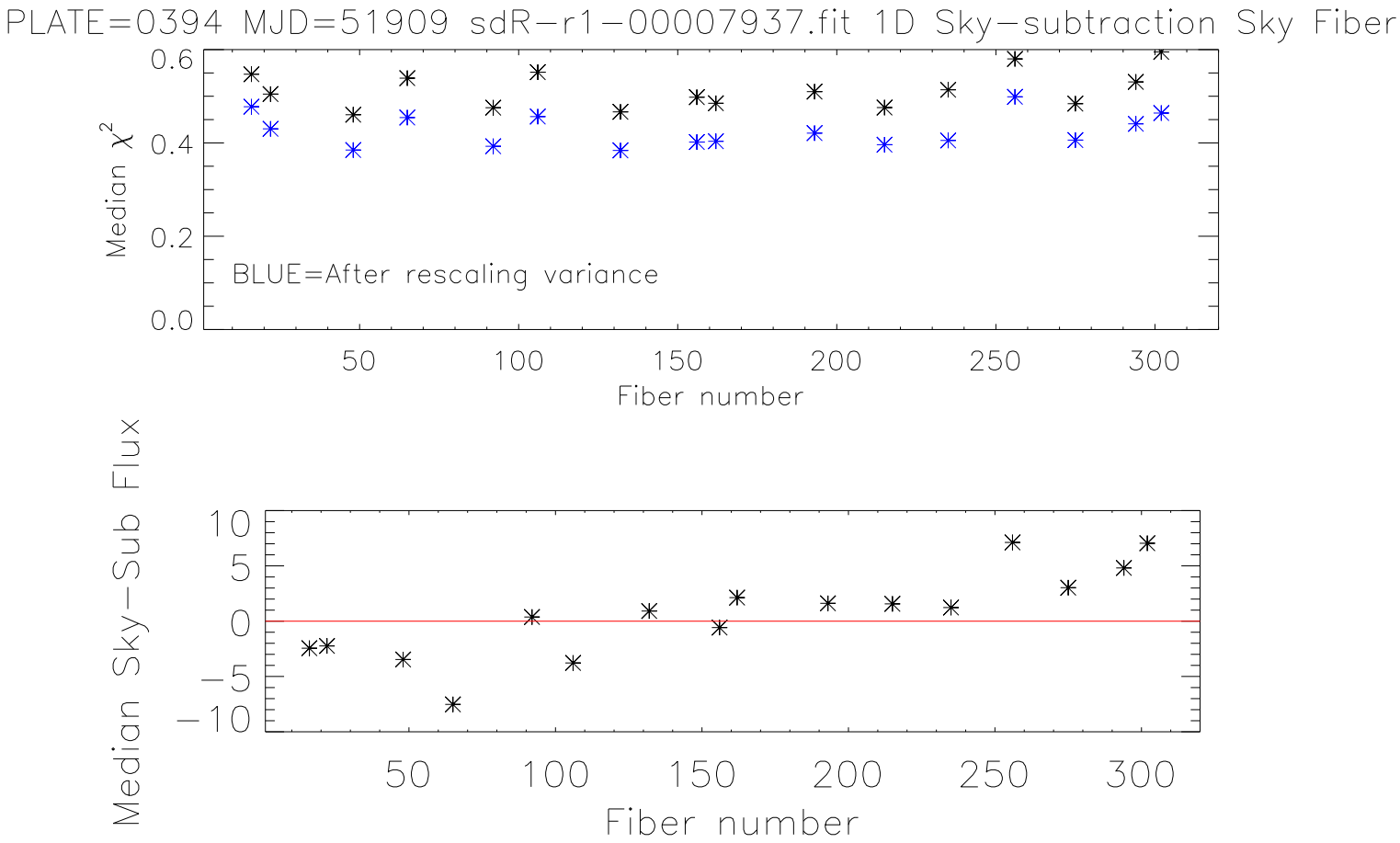

8919.6100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

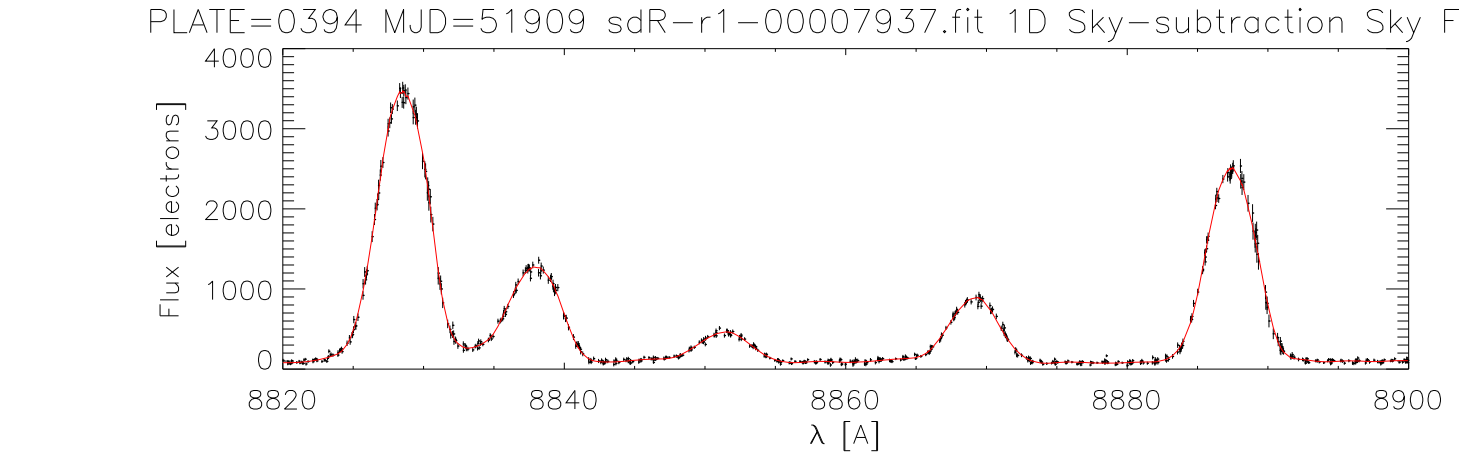

6300.3040
stdev 0.022
extra 0.21
6363.7760
stdev 0.021
extra 0.22
6553.6100
stdev 0.019
extra 0.21
6923.2100
stdev 0.036
extra 0.23
6949.0300
stdev 0.021
extra 0.30
7571.7500
stdev 0.038
extra 0.29
7794.1200
stdev 0.020
extra 0.19
7821.5100
stdev 0.023
extra 0.24
8399.1600
stdev 0.036
extra 0.26
8430.1700
stdev 0.026
extra 0.26
8885.8300
stdev 0.027
extra 0.29
8919.6100
stdev 0.027
extra 0.28
meas − pred, pix
mfhd2 16

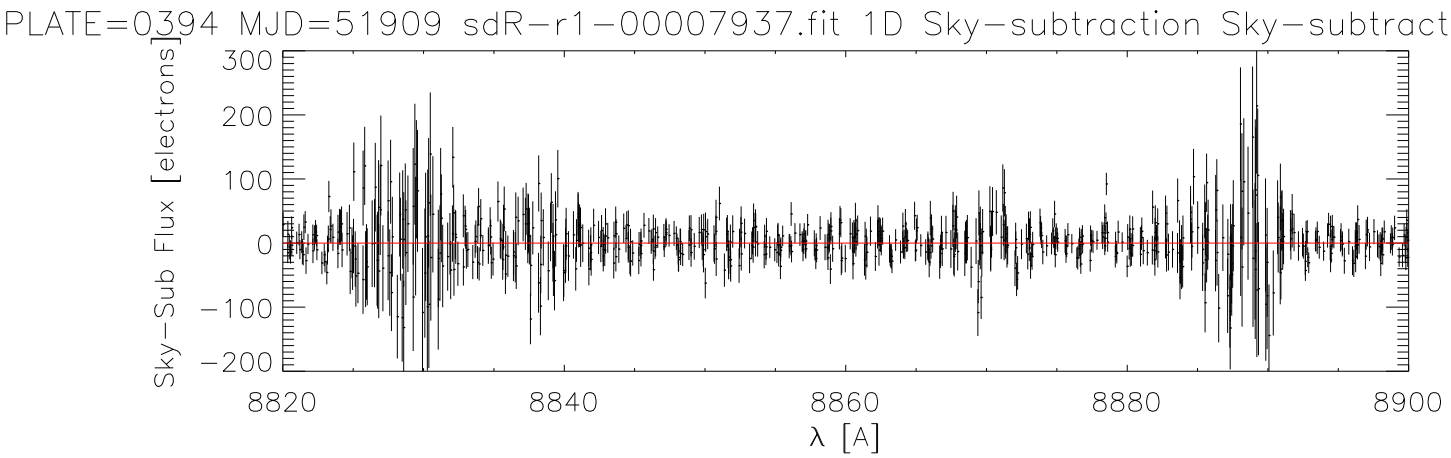

sky shift, pixels
0.30
0.28
0.26
0.24
0.22
0.20
5000
6000
7000
8000
9000
10000

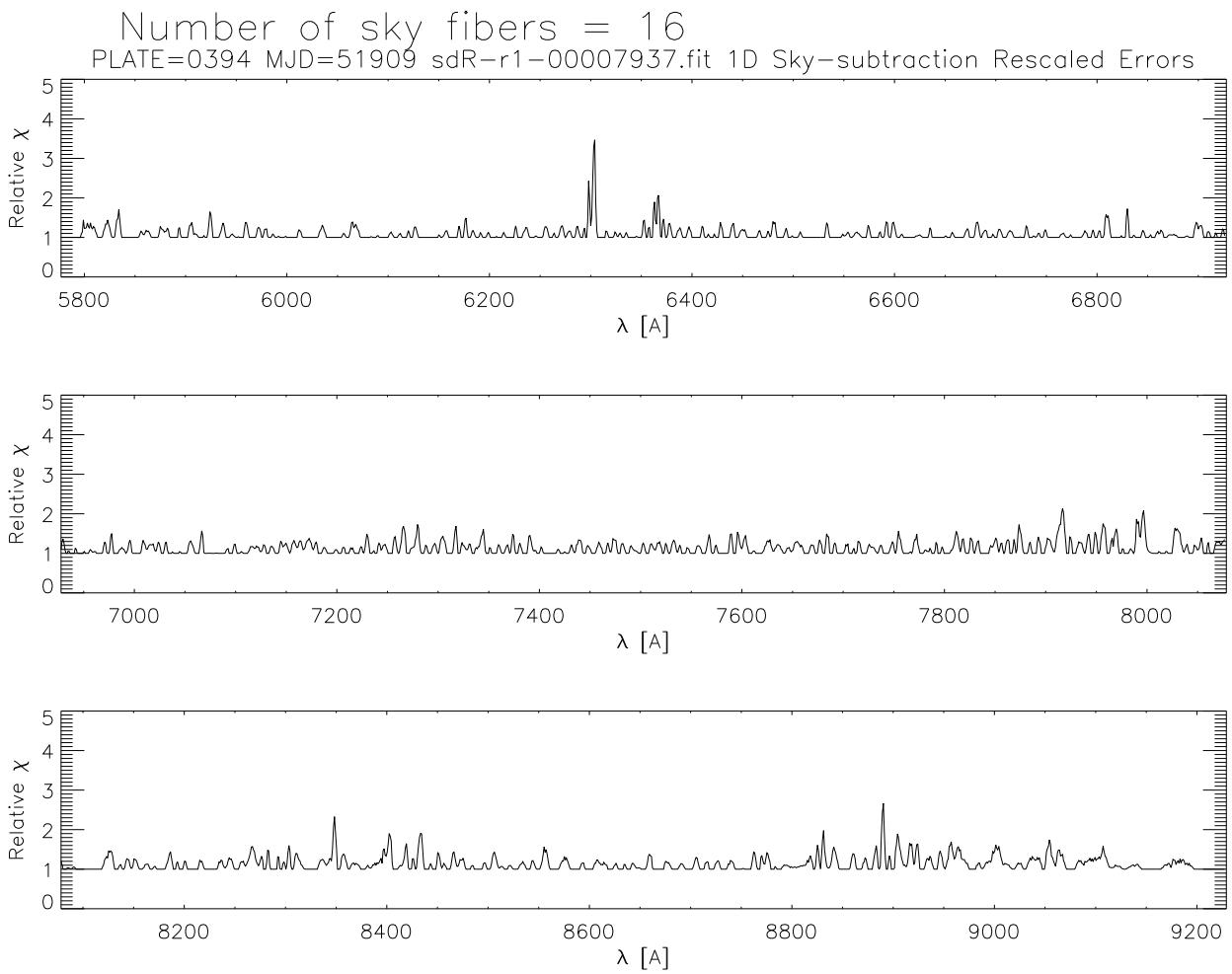

PLATE=0394 MJD=51909 Smooth superflat for sdR-r1-00007937.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

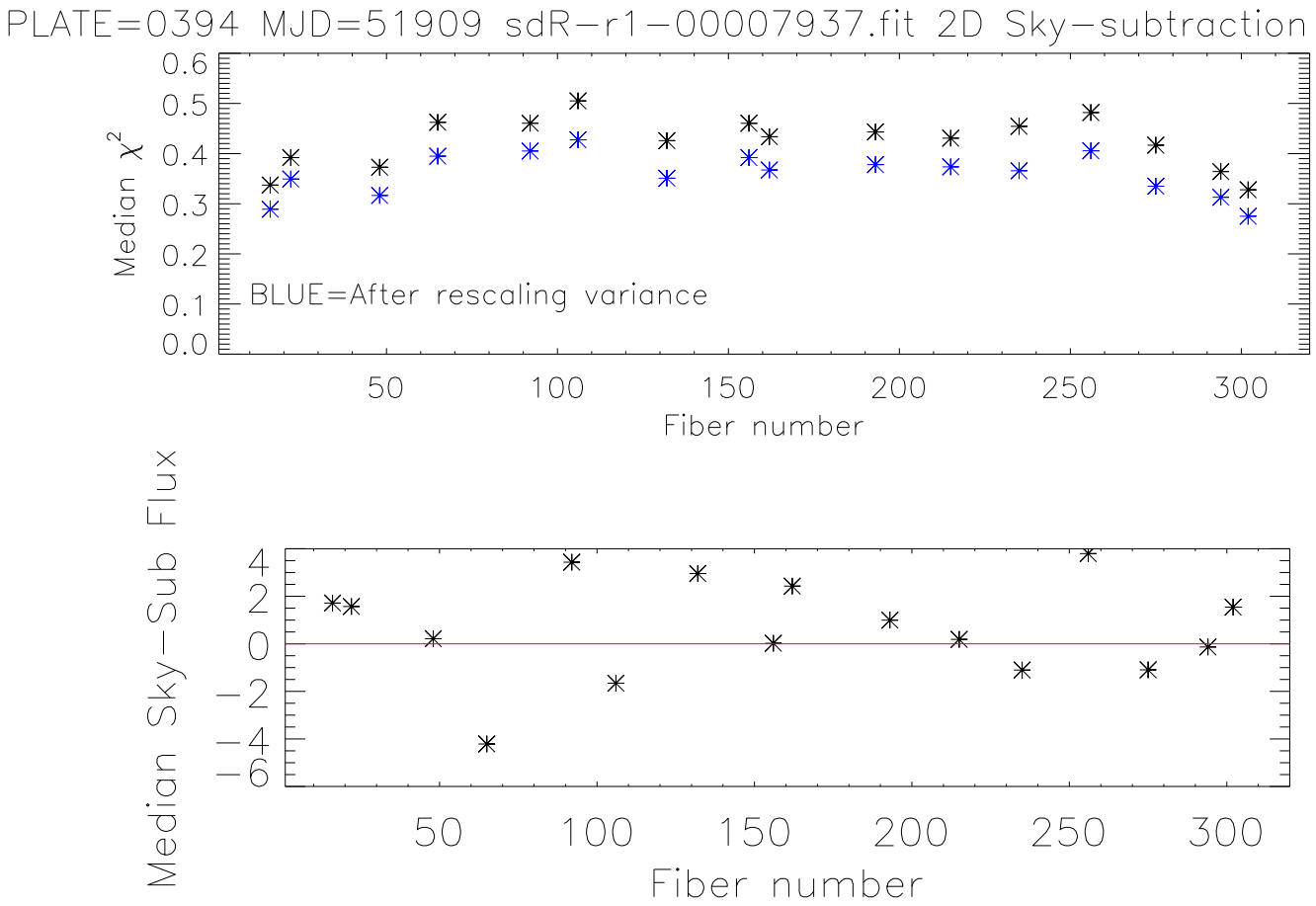
es= −0.0000

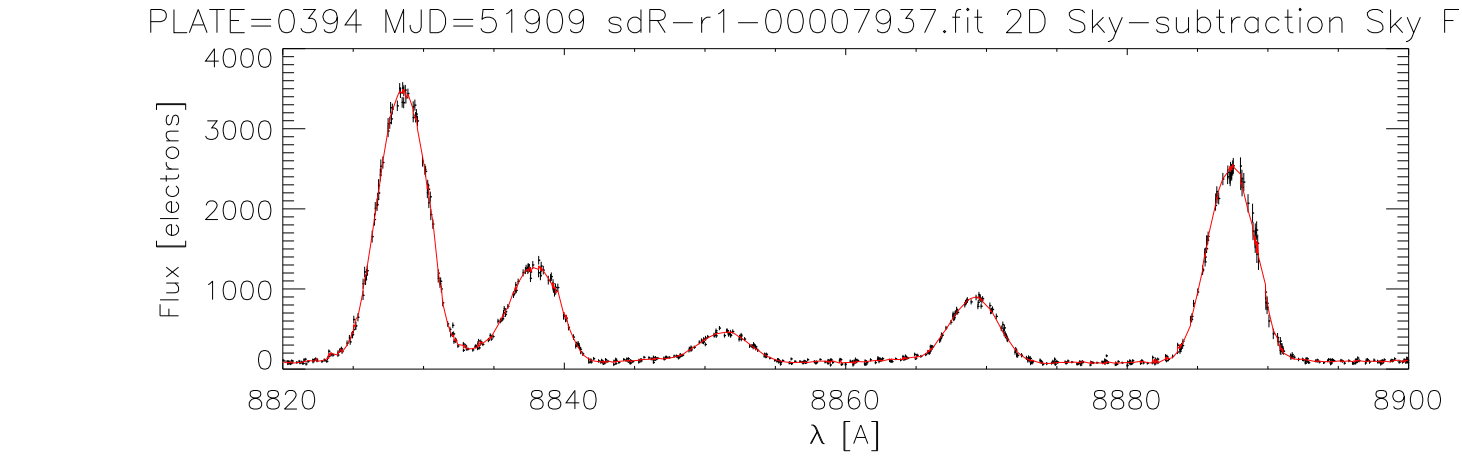

PLATE=0394 MJD=51909 sdR-r1-00007937.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

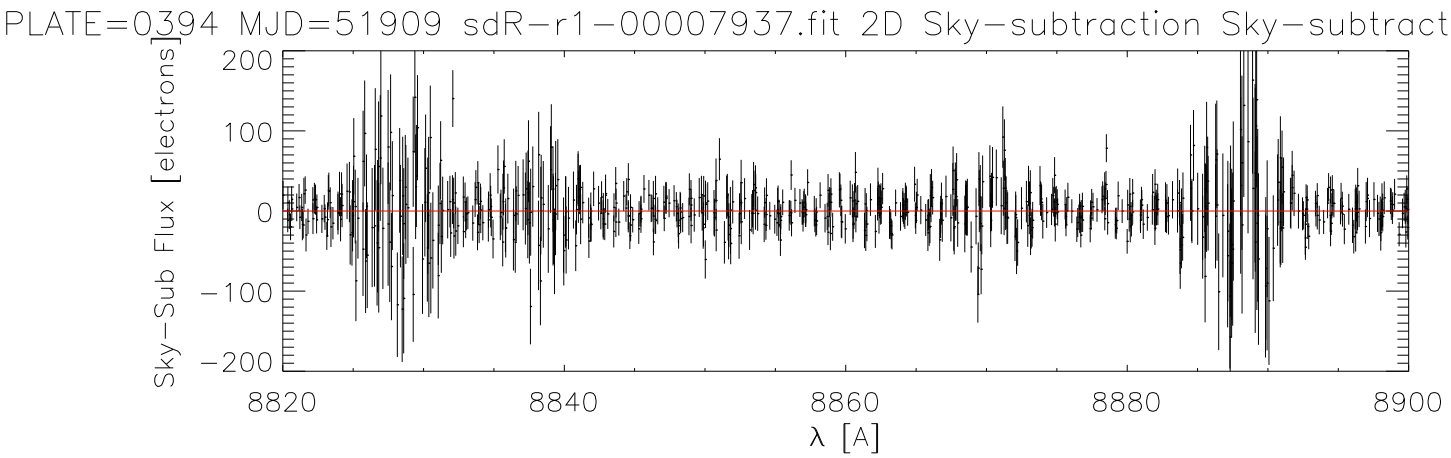

PLATE=0394 MJD=51909 sdR-r1-00007937.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

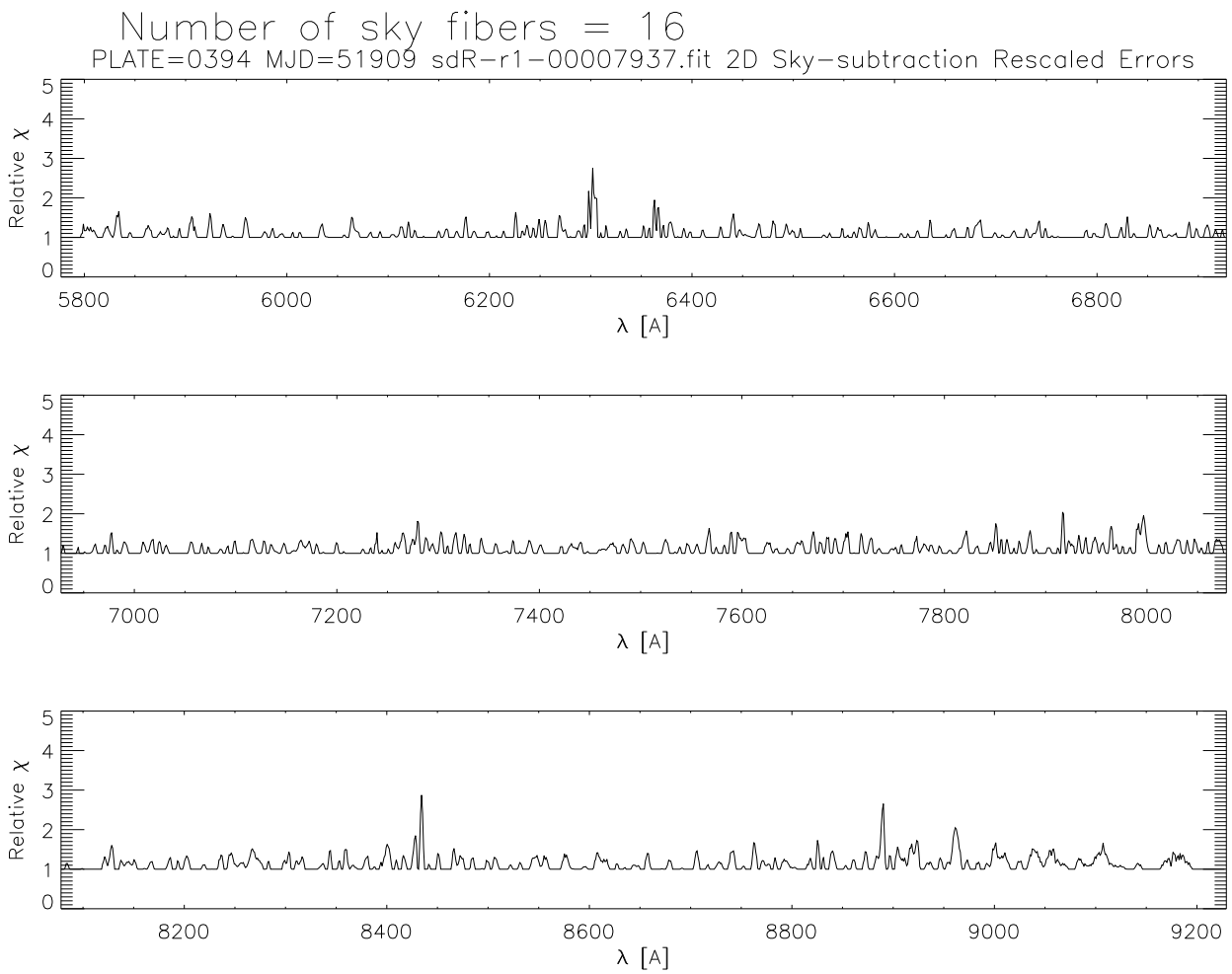

PLATE=0394 MJD=51909 sdR-r1-00007937.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

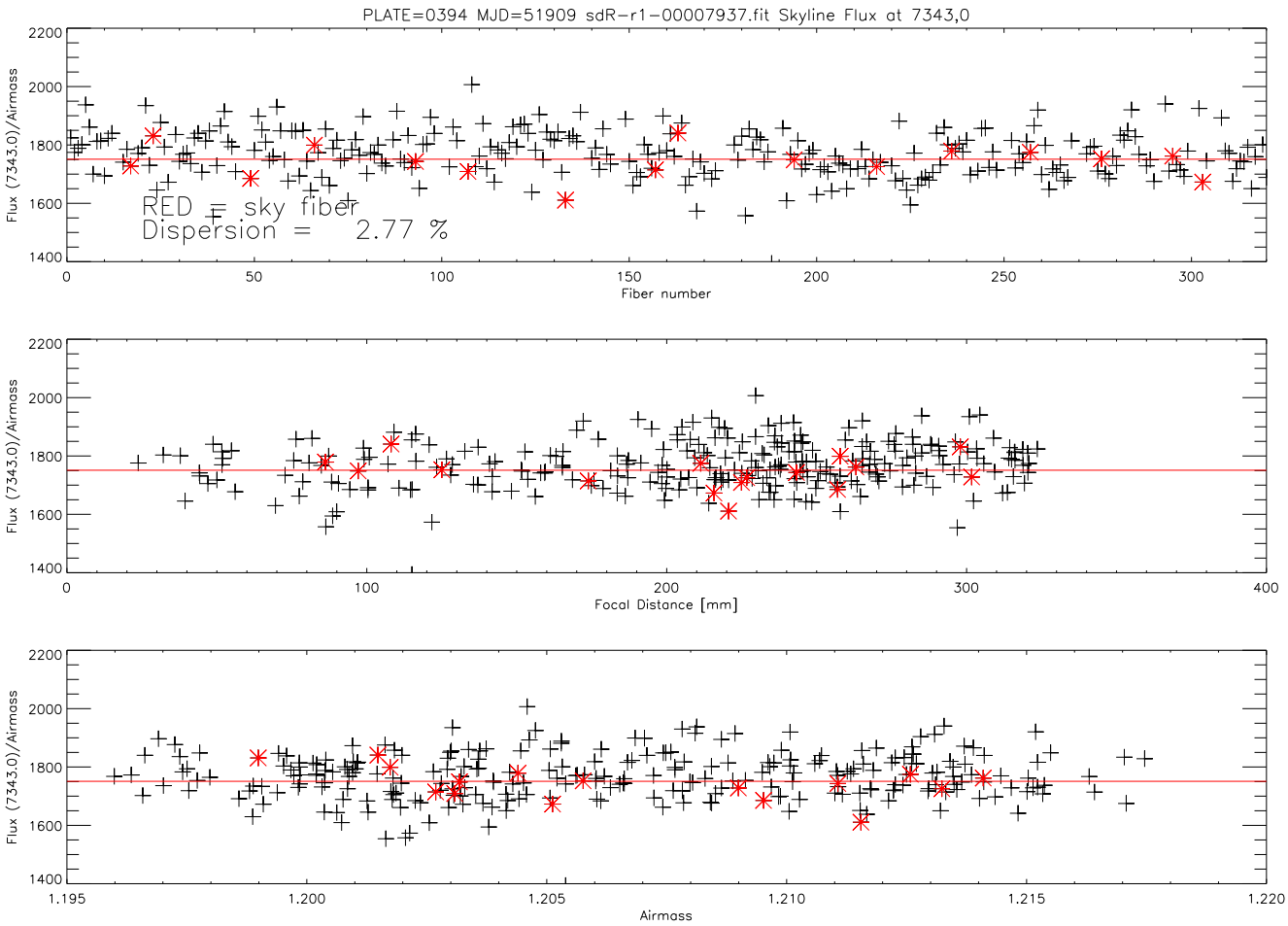

Number of sky fibers = 16
PLATE=0394 MJD=51909 sdR-r1-00007937.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

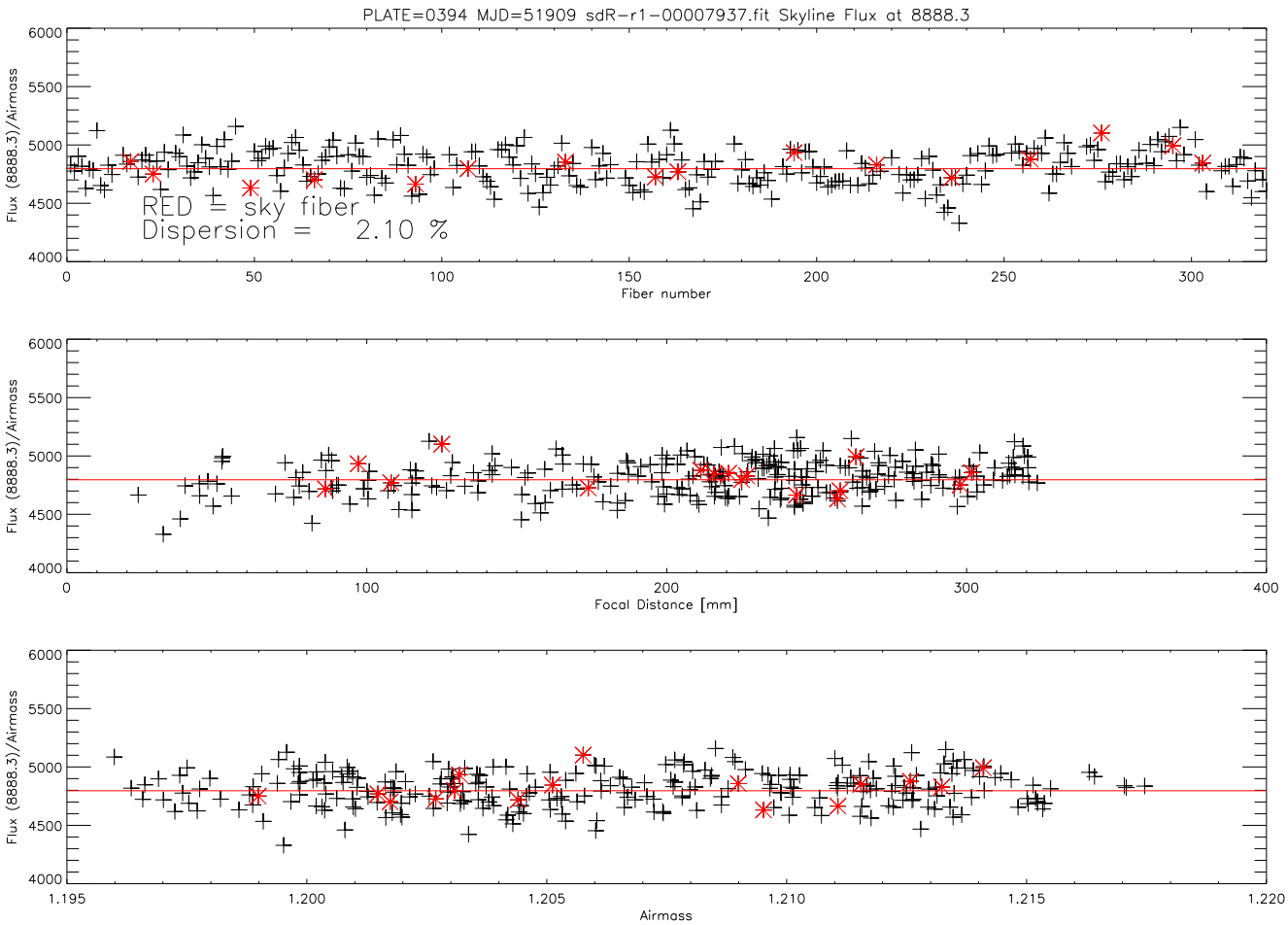

PLATE=0394 MJD=51909 sdR-r1-00007937.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

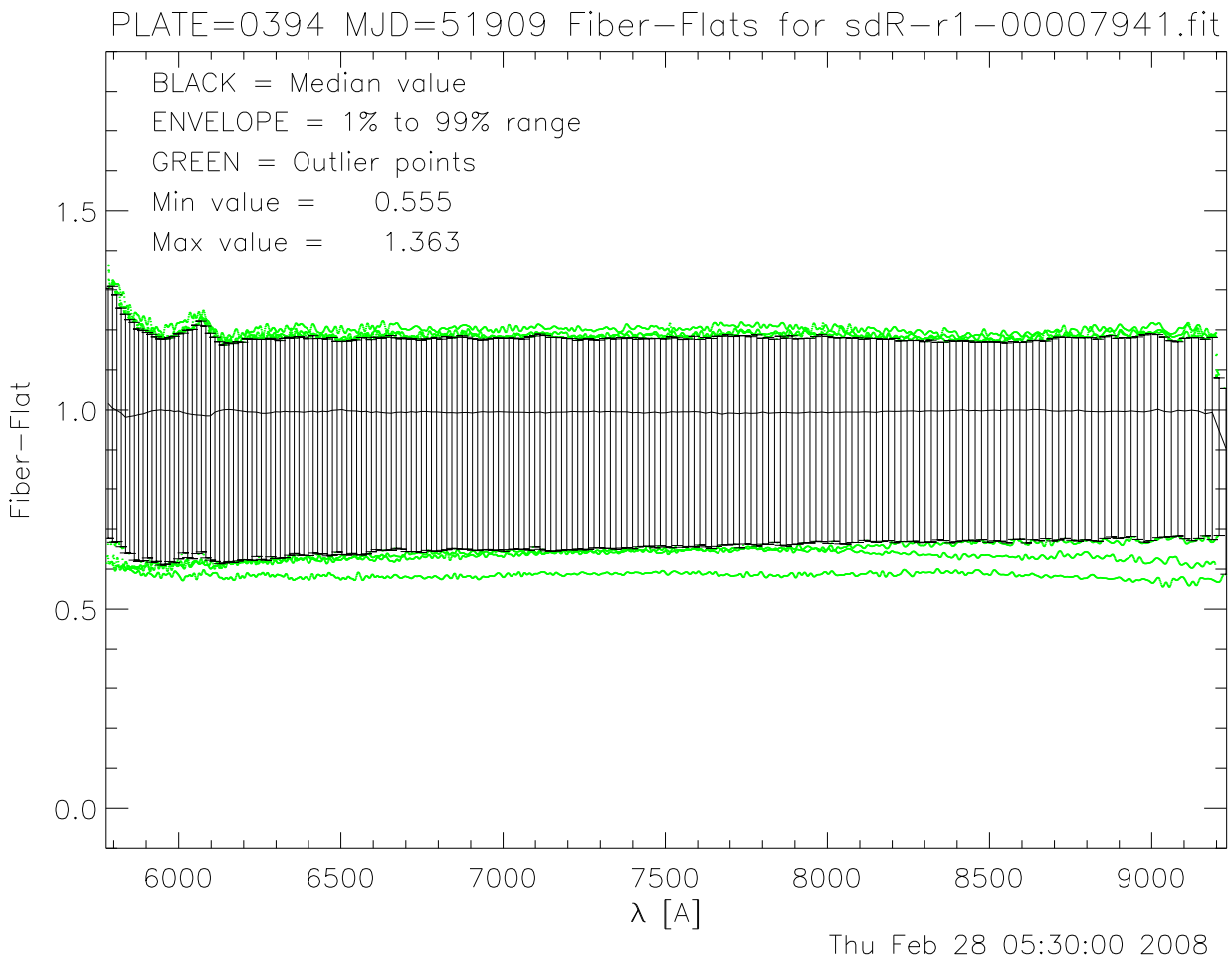

PLATE=0394 MJD=51909 sdR-r1-00007937.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

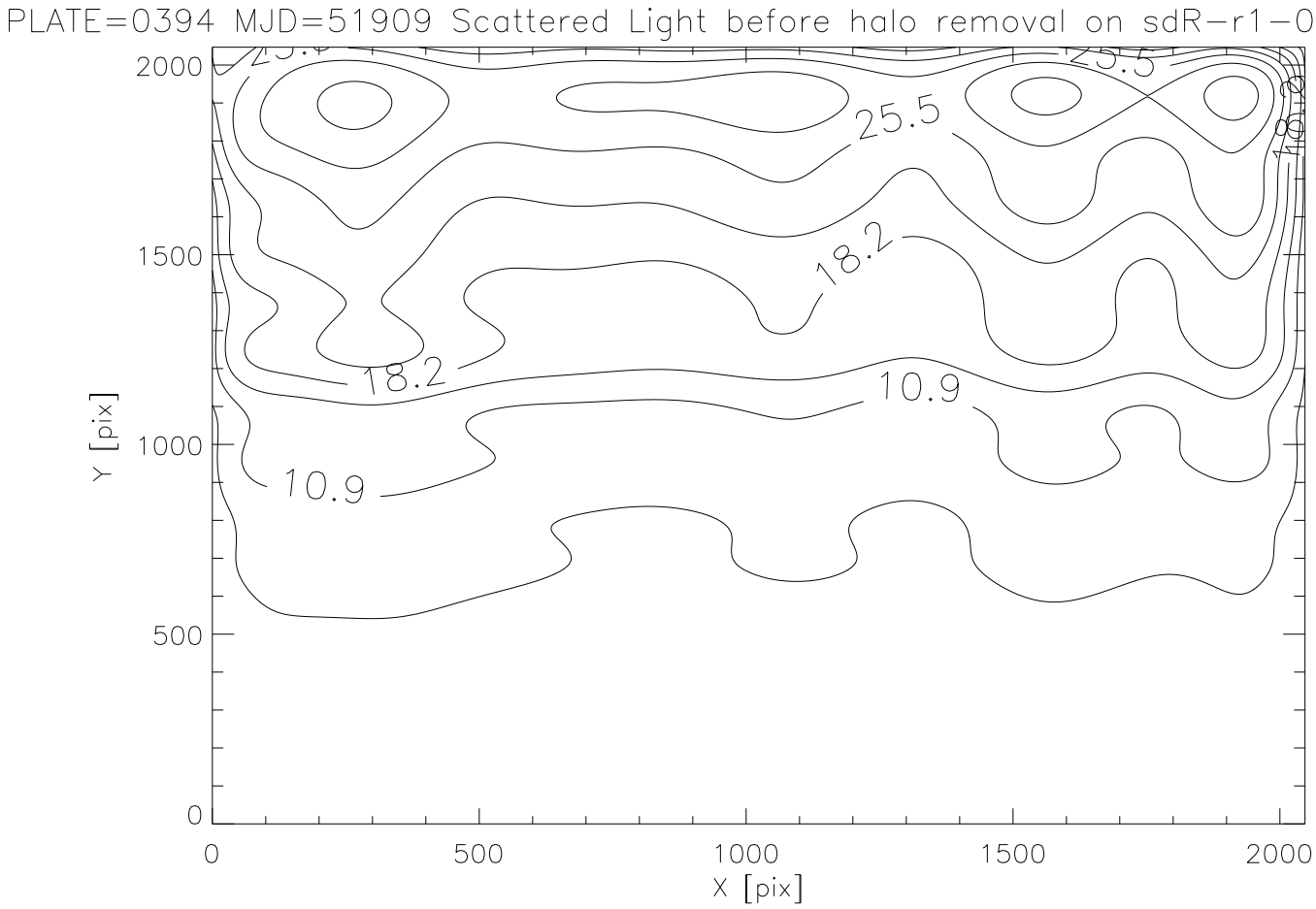

PLATE=0394 MJD=51909 sdR-r1-00007937.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

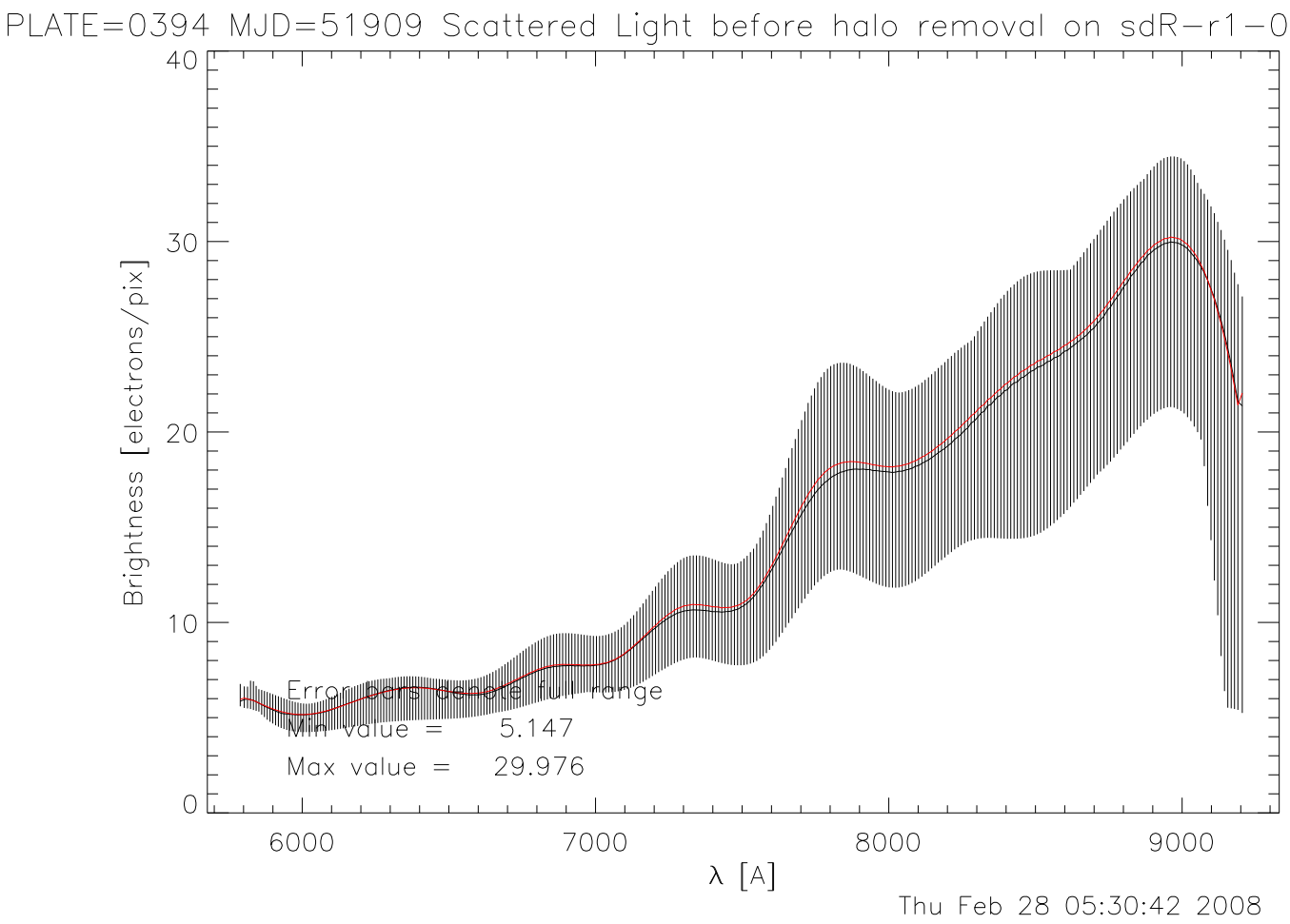

Number of sky fibers = 16
PLATE=0394 MJD=51909 sdR-r1-00007937.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

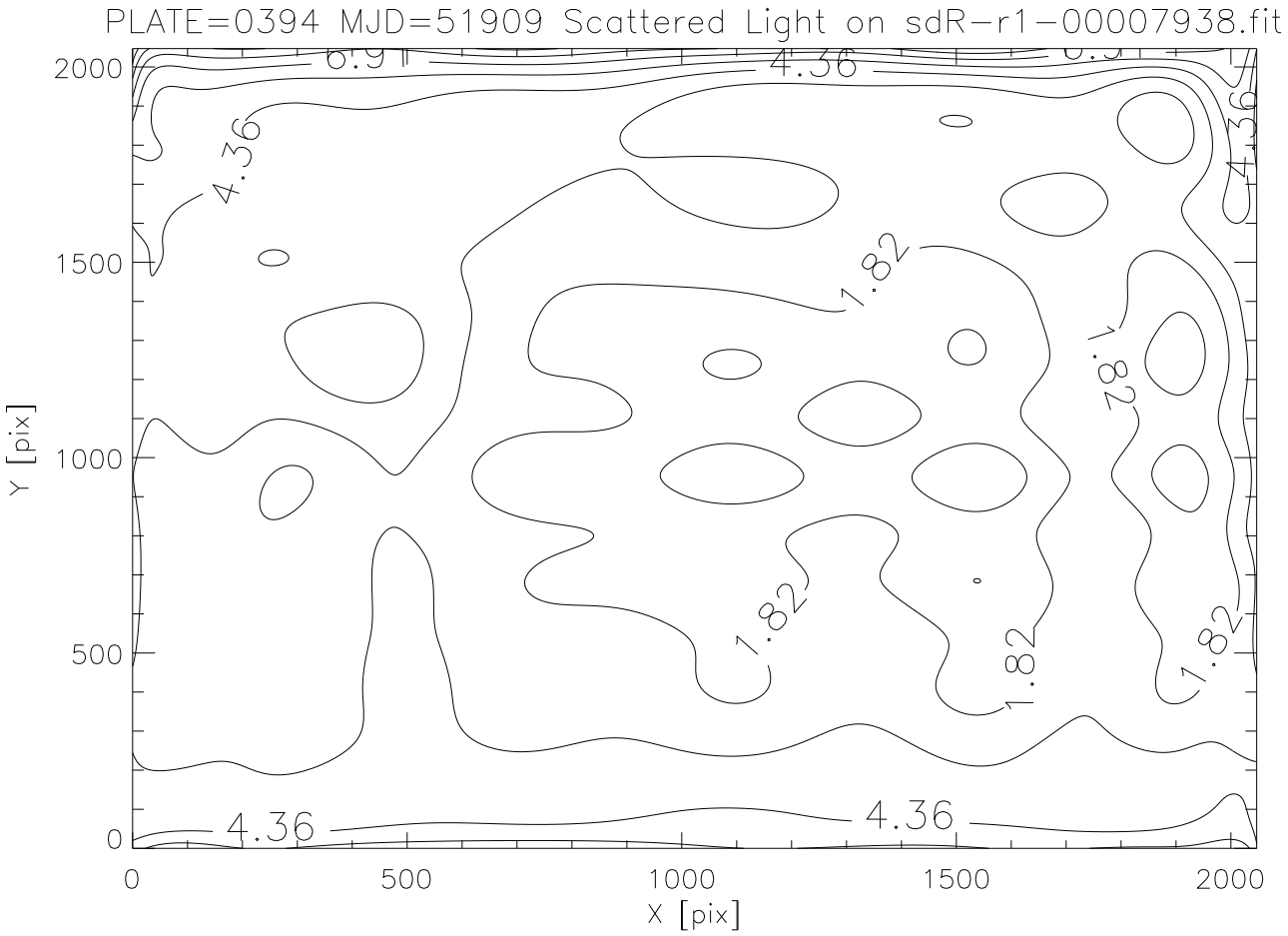

PLATE=0394 MJD=51909 sdR-r1-00007937.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.77 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

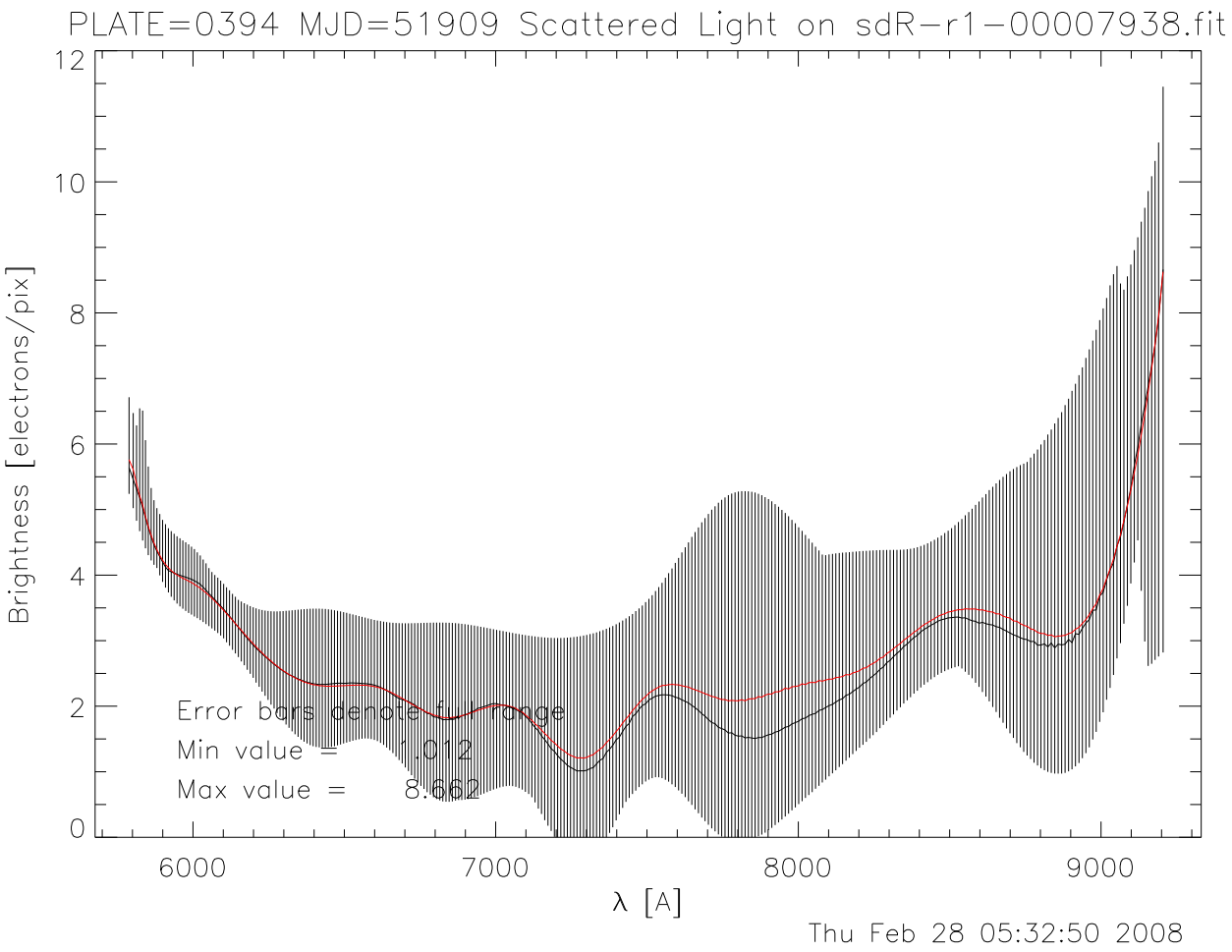

PLATE=0394 MJD=51909 sdR-r1-00007937.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.10 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

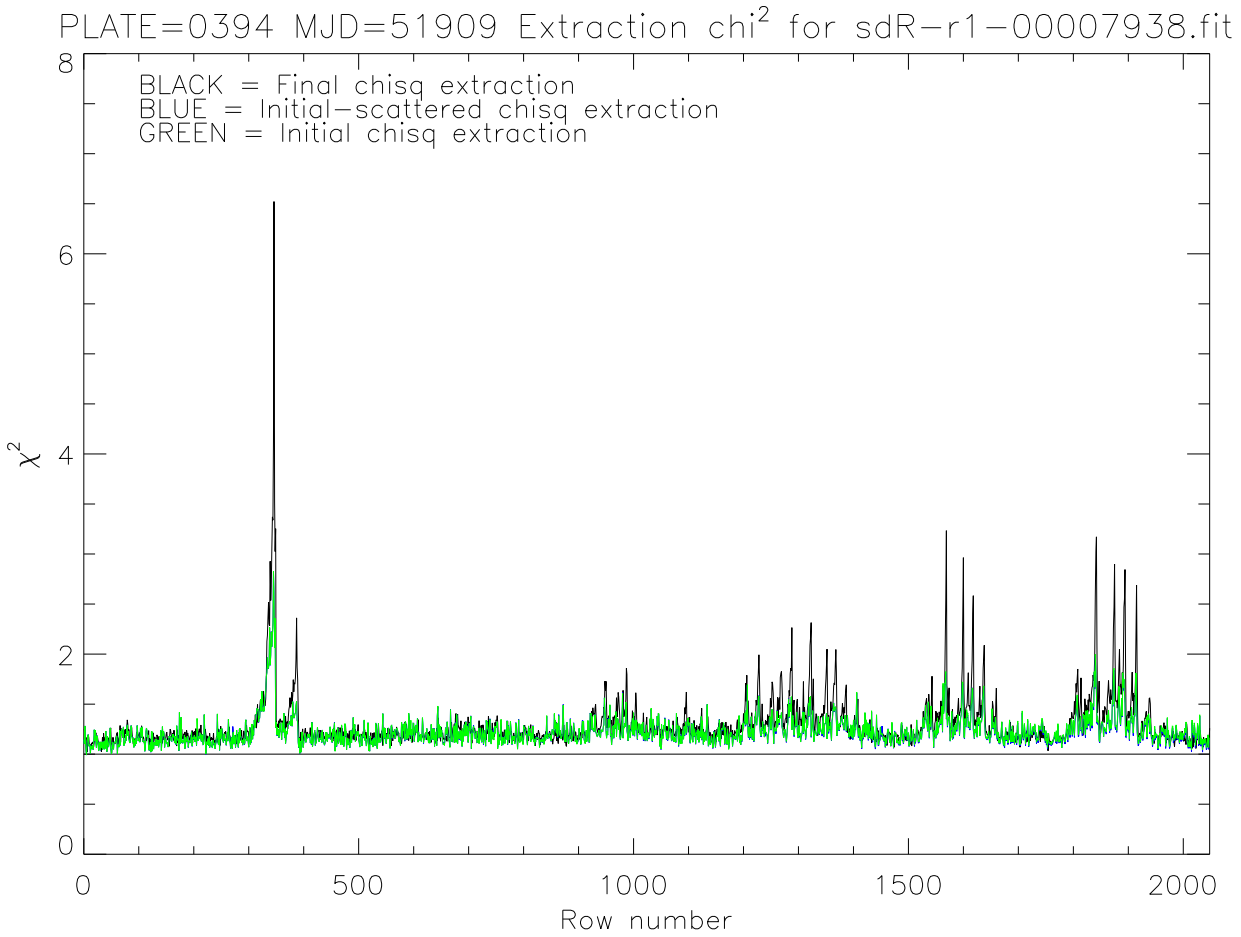

PLATE=0394 MJD=51909 Fiber−Flats for sdR−r1−00007941.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.555
Max value = 1.363
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Thu Feb 28 05:30:00 2008

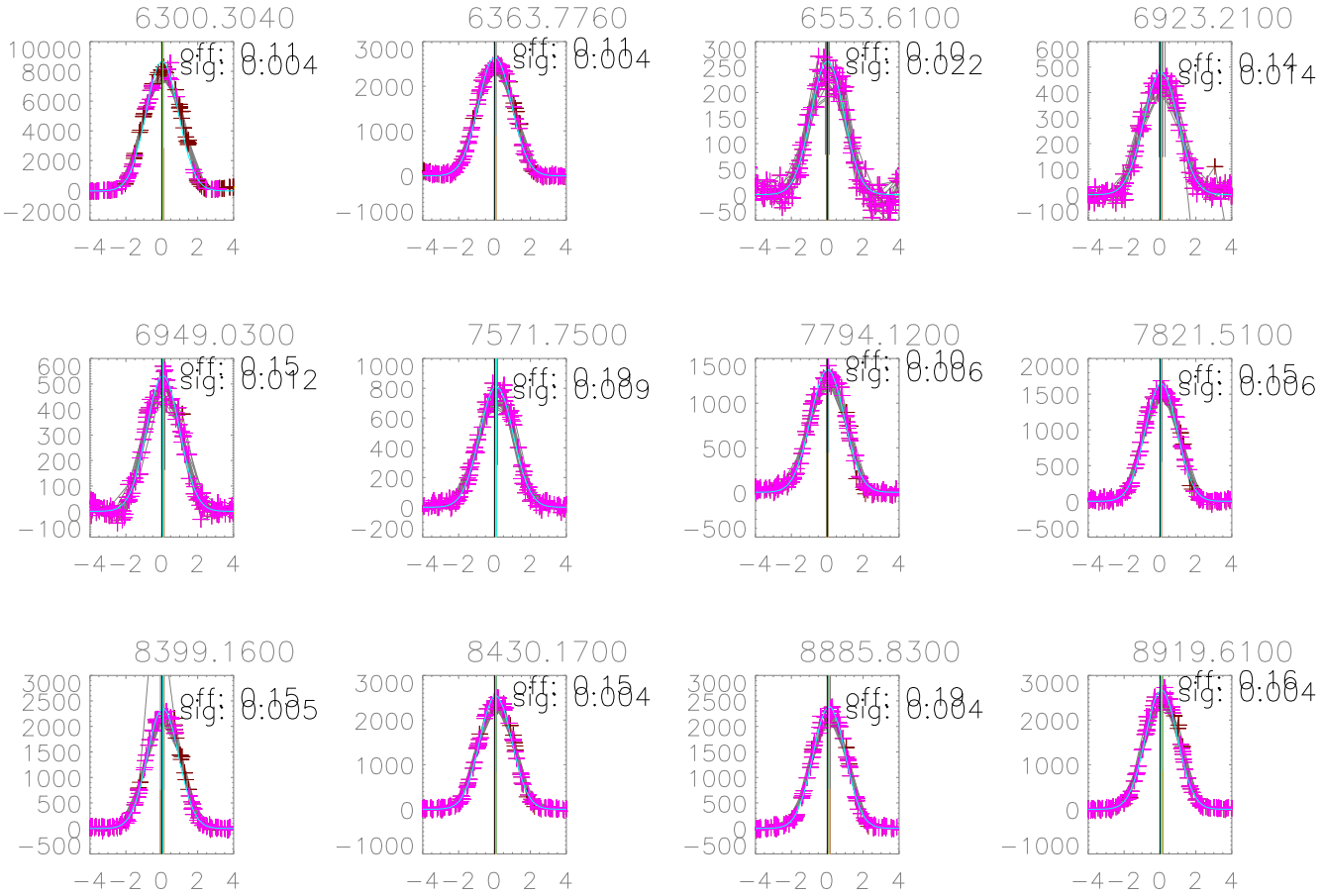

PLATE=0394 MJD=51909 Scattered Light before halo removal on sdR-r1-00007938.fi
25.5
25.5
18.2
18.2
10.9
10.9
Y [pix]
X [pix]
0
500
1000
1500
2000

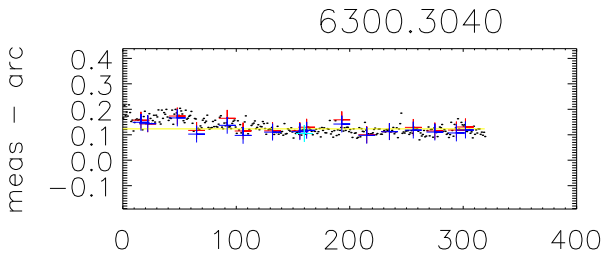

PLATE=0394 MJD=51909 Scattered Light before halo removal on sdR-r1-00007938.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.147
Max value = 29.976
Thu Feb 28 05:30:42 2008

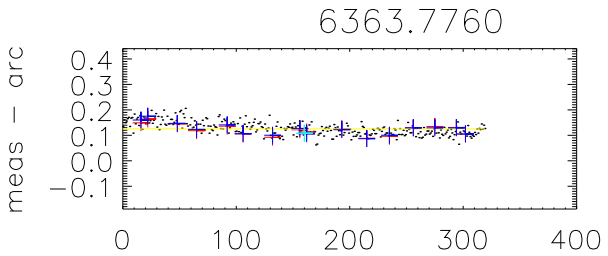

PLATE=0394 MJD=51909 Scattered Light on sdR-r1-00007938.fit
6.9
4.36
4.36
4.36
0
0
1.82
1.82
1.82
1.82
1.82
4.36
4.36
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

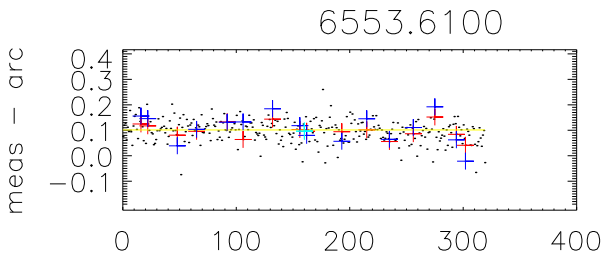

PLATE=0394 MJD=51909 Scattered Light on sdR-r1-00007938.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = -1.012
Max value = 8.662
Thu Feb 28 05:32:50 2008

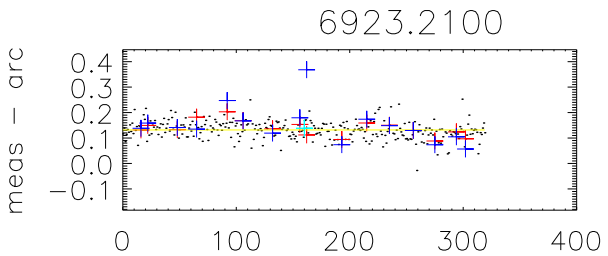

PLATE=0394 MJD=51909 Extraction chi^2 for sdR−r1−00007938.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

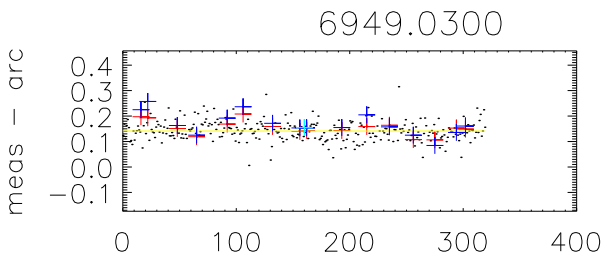

6300.3040
off: 0.11
sig: 0.004
6363.7760
off: 0.11
sig: 0.004
6553.6100
off: 0.10
sig: 0.022
6923.2100
off: 0.14
sig: 0.014
6949.0300
off: 0.15
sig: 0.012
7571.7500
off: 0.18
sig: 0.009
7794.1200
off: 0.10
sig: 0.006
7821.5100
off: 0.15
sig: 0.006
8399.1600
off: 0.15
sig: 0.005
8430.1700
off: 0.15
sig: 0.004
8885.8300
off: 0.18
sig: 0.004
8919.6100
off: 0.16
sig: 0.004

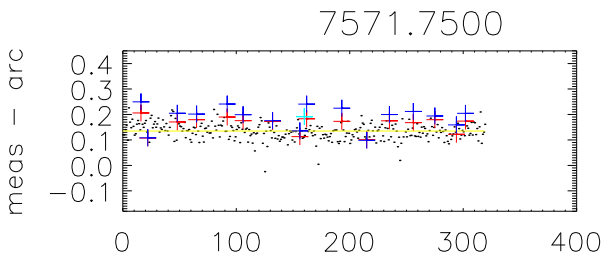

6300.3040
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

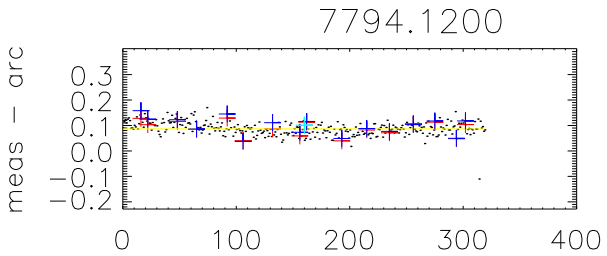

6363.7760
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

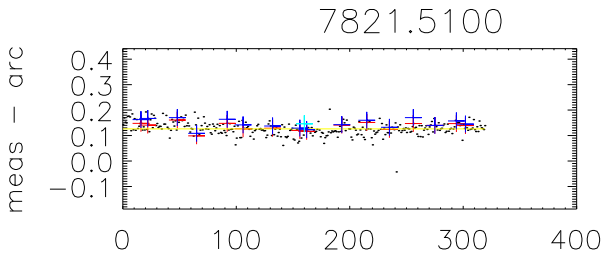

6553.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

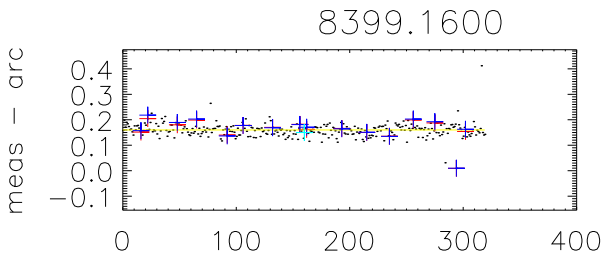

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

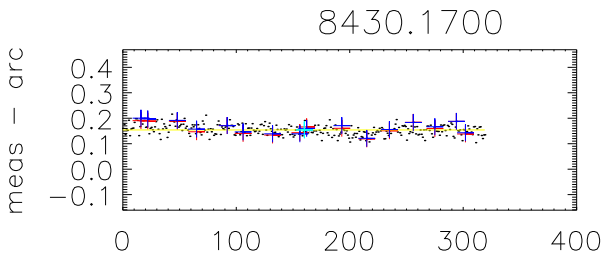

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

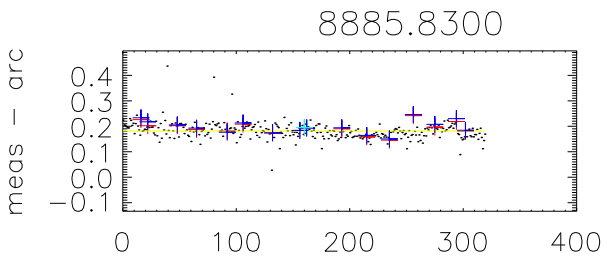

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

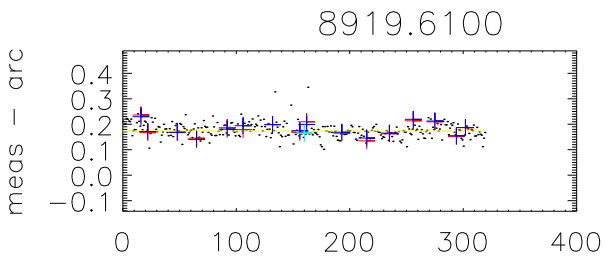

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

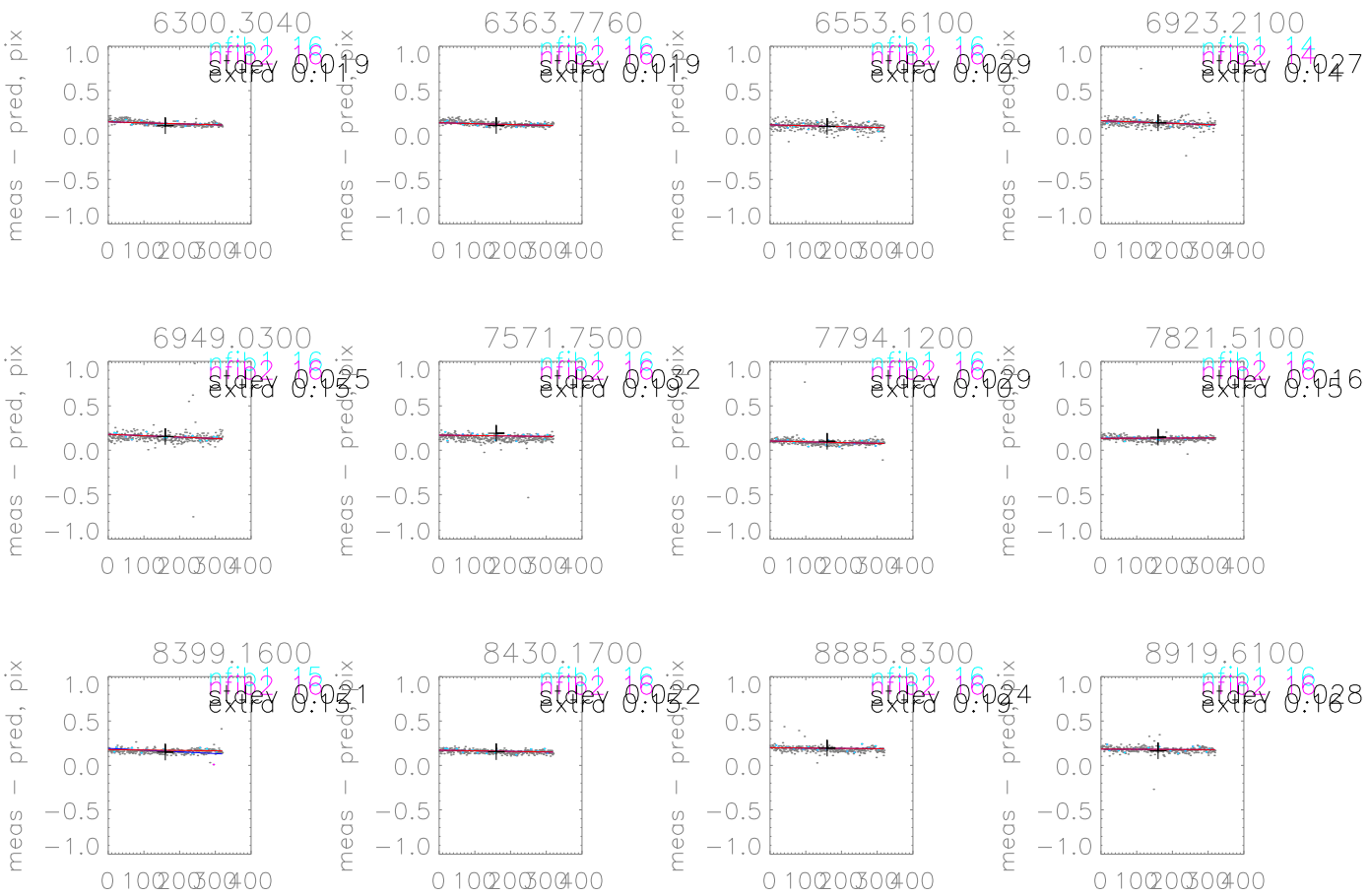

7821.5100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

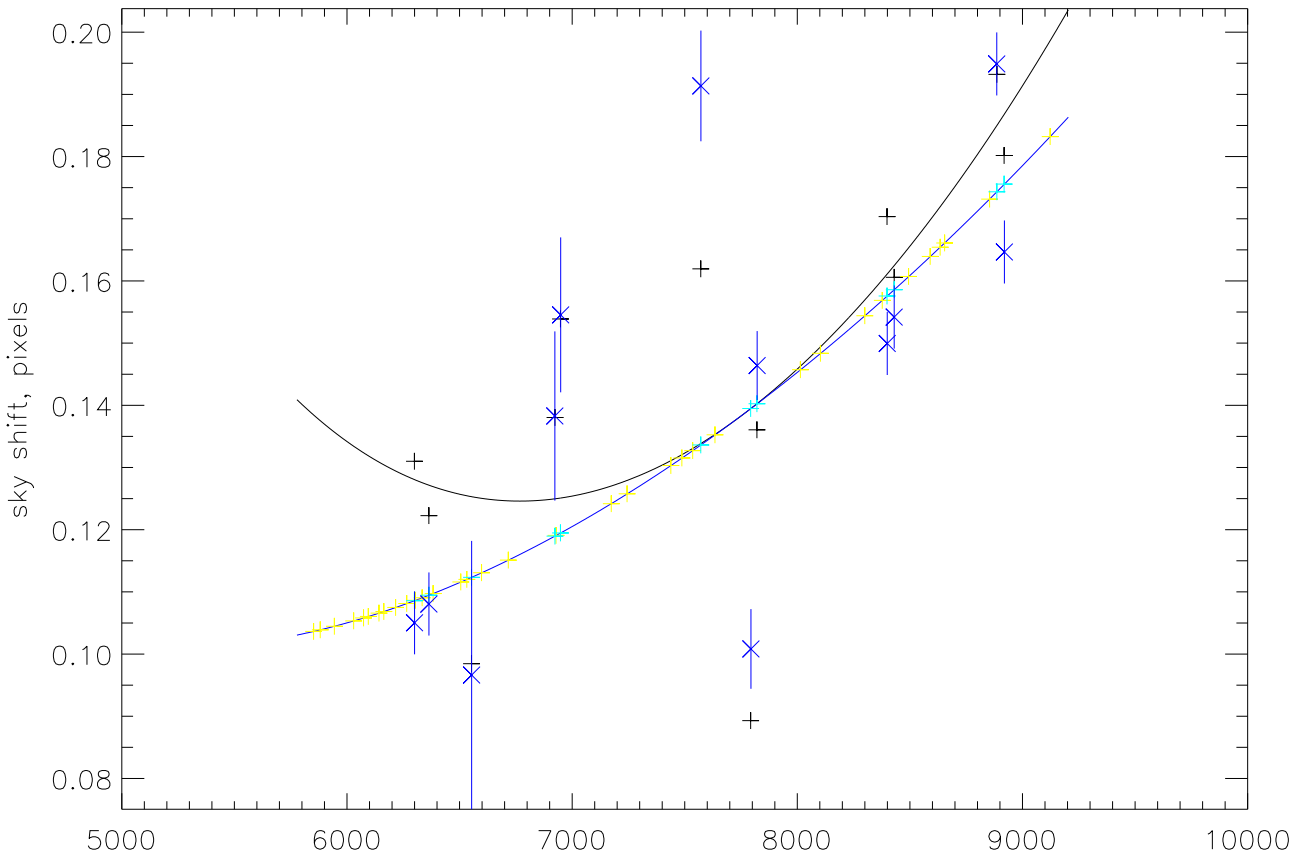

8399.1600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

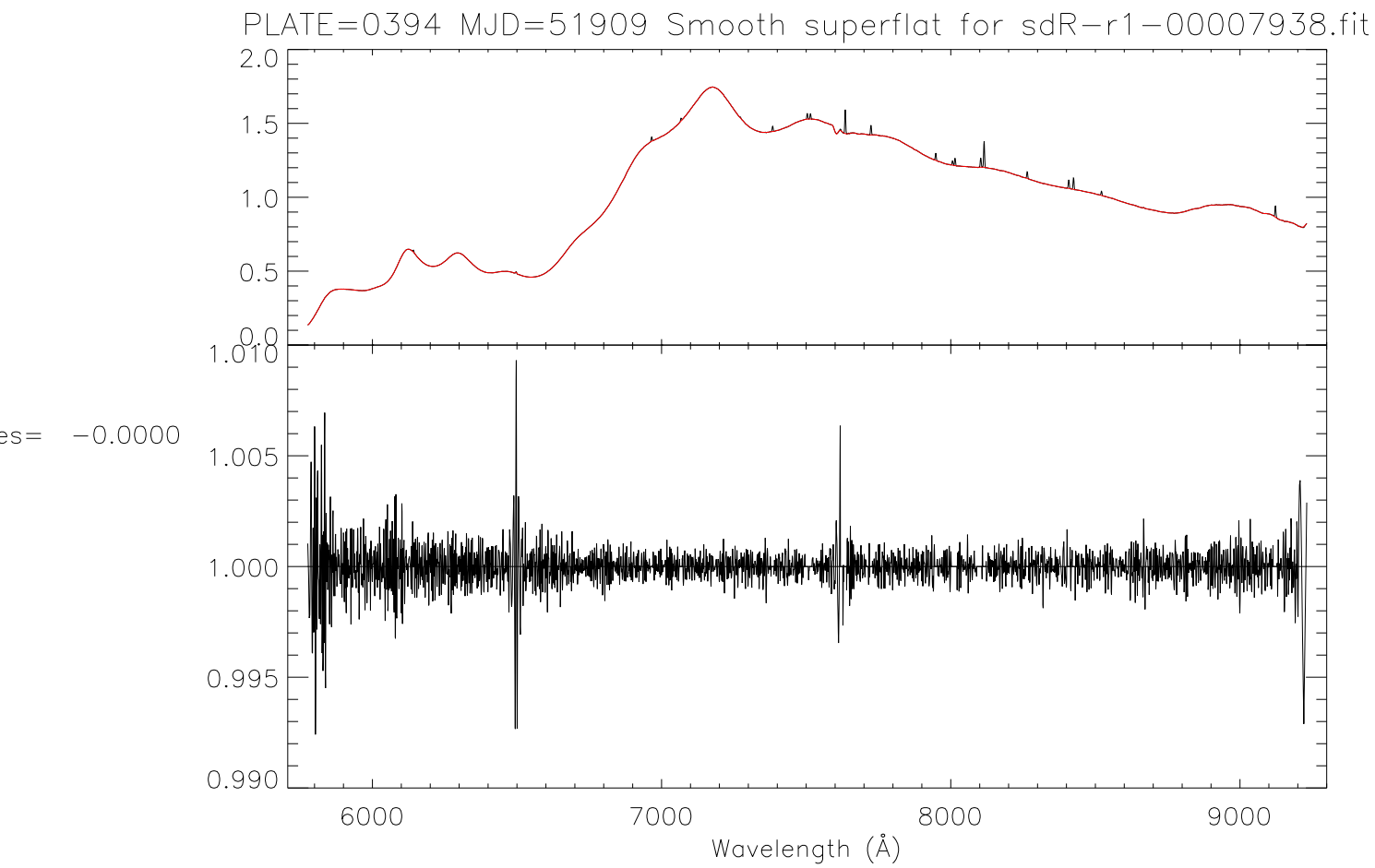

8430.1700
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

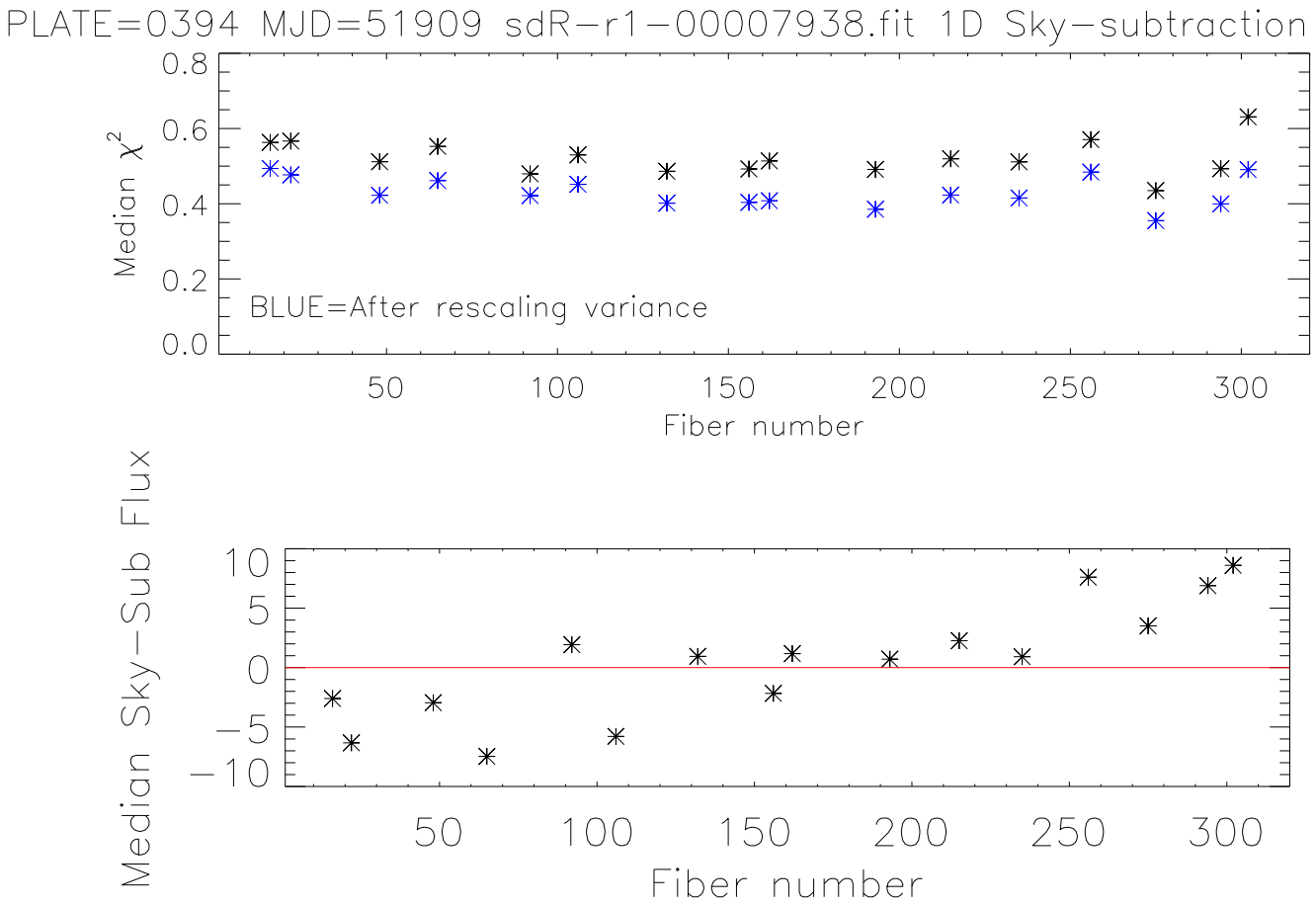

8919.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

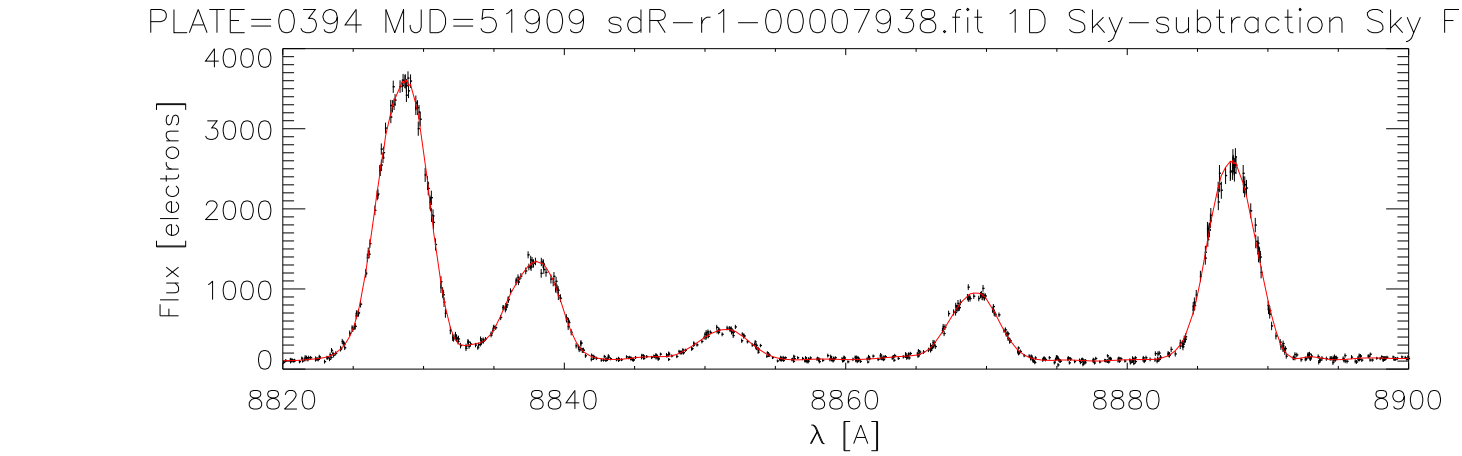

6300.3040
stdev 0.019
extra 0.019
6363.7760
stdev 0.019
extra 0.019
6553.6100
stdev 0.029
extra 0.029
6923.2100
stdev 0.027
extra 0.027
6949.0300
stdev 0.025
extra 0.025
7571.7500
stdev 0.032
extra 0.032
7794.1200
stdev 0.029
extra 0.029
7821.5100
stdev 0.016
extra 0.016
8399.1600
stdev 0.021
extra 0.021
8430.1700
stdev 0.022
extra 0.022
8885.8300
stdev 0.024
extra 0.024
8919.6100
stdev 0.028
extra 0.028
meas − pred, pix
mfib1 16
mfib2 16
mfib1 14
mfib2 14
mfib1 15
mfib2 15

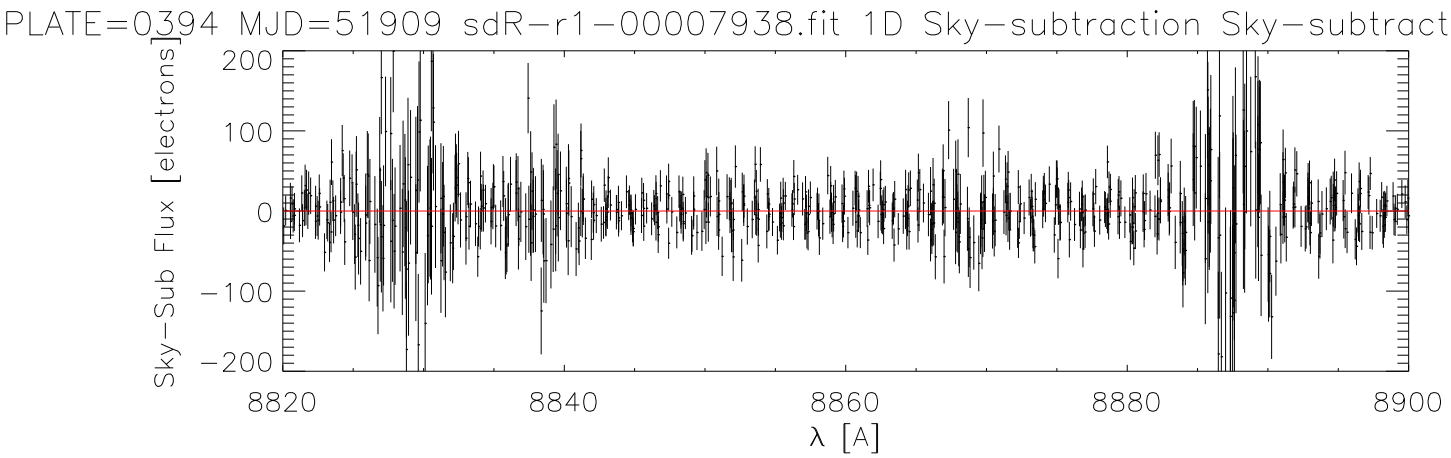

sky shift, pixels
0.20
0.18
0.16
0.14
0.12
0.10
0.08
5000
6000
7000
8000
9000
10000

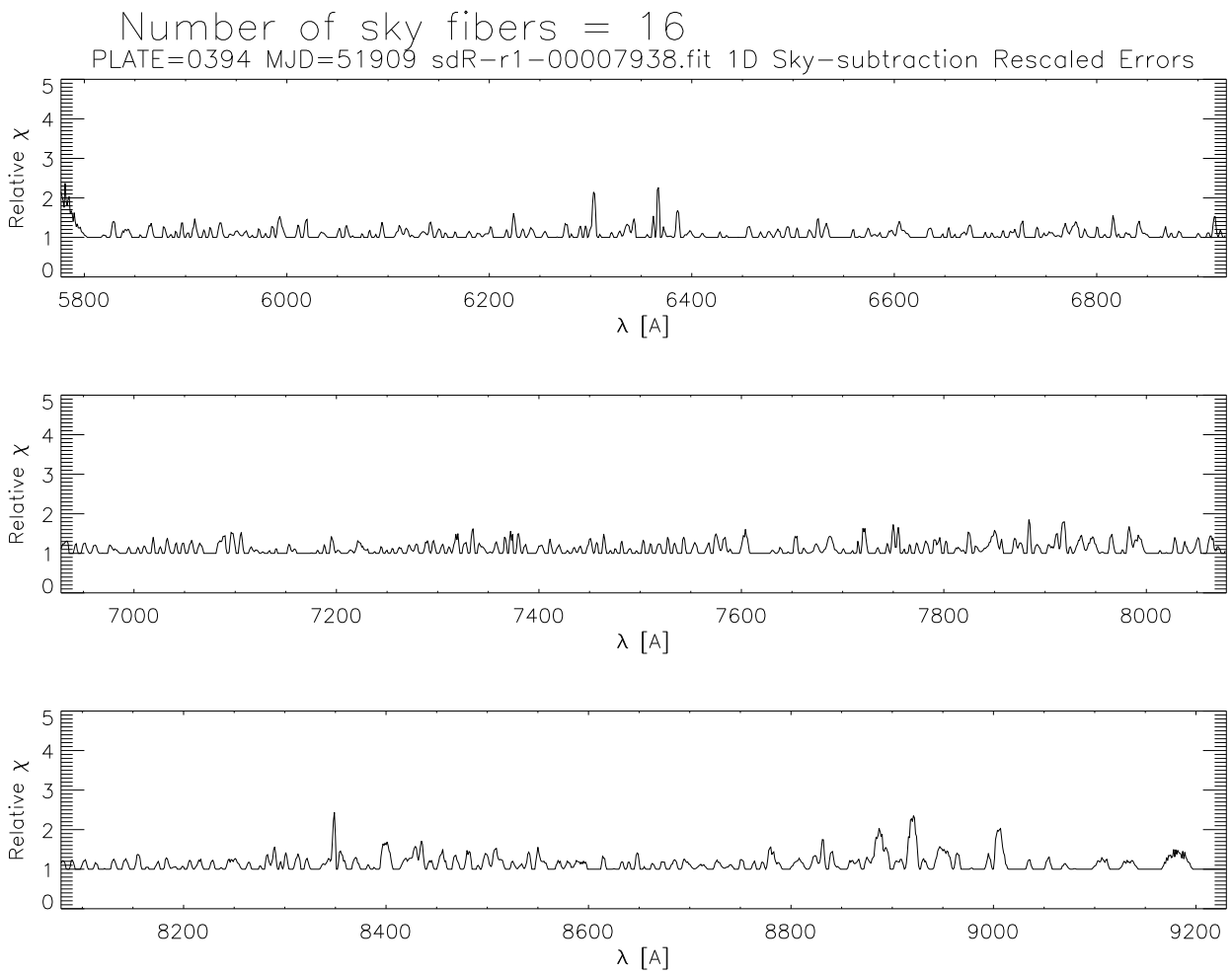

PLATE=0394 MJD=51909 Smooth superflat for sdR-r1-00007938.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

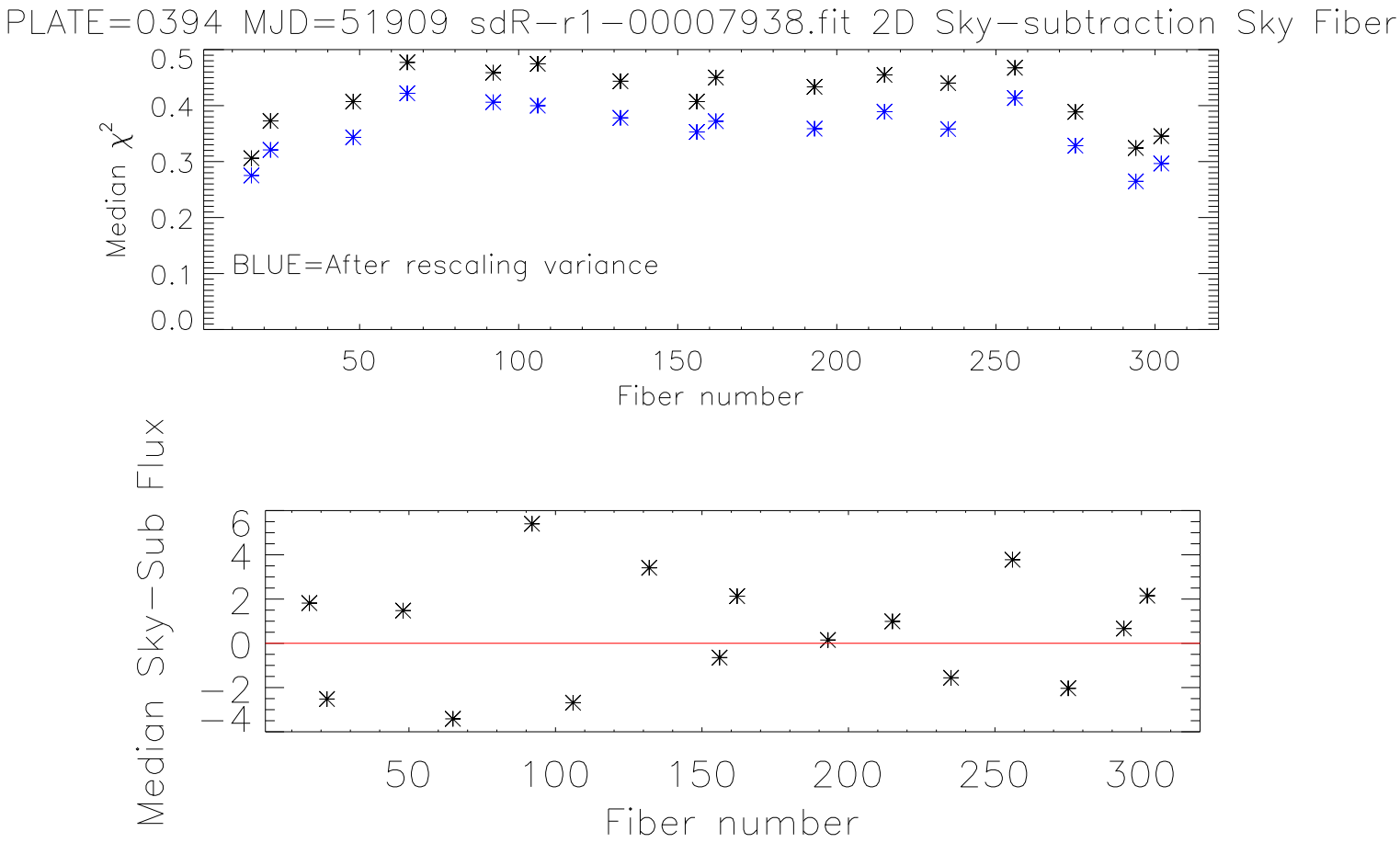
es= −0.0000

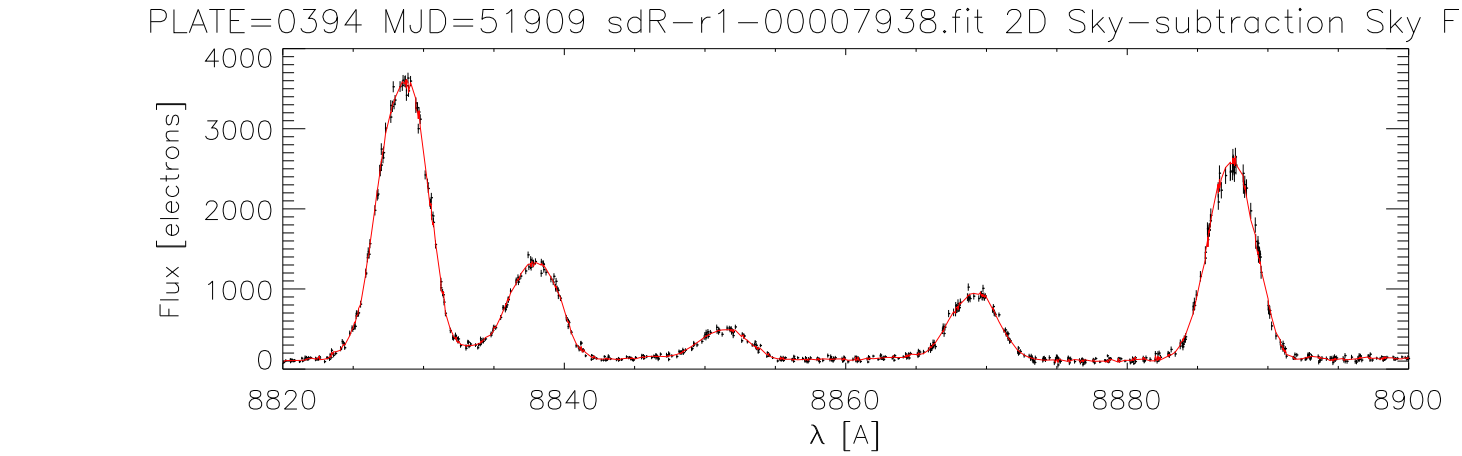

PLATE=0394 MJD=51909 sdR-r1-00007938.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

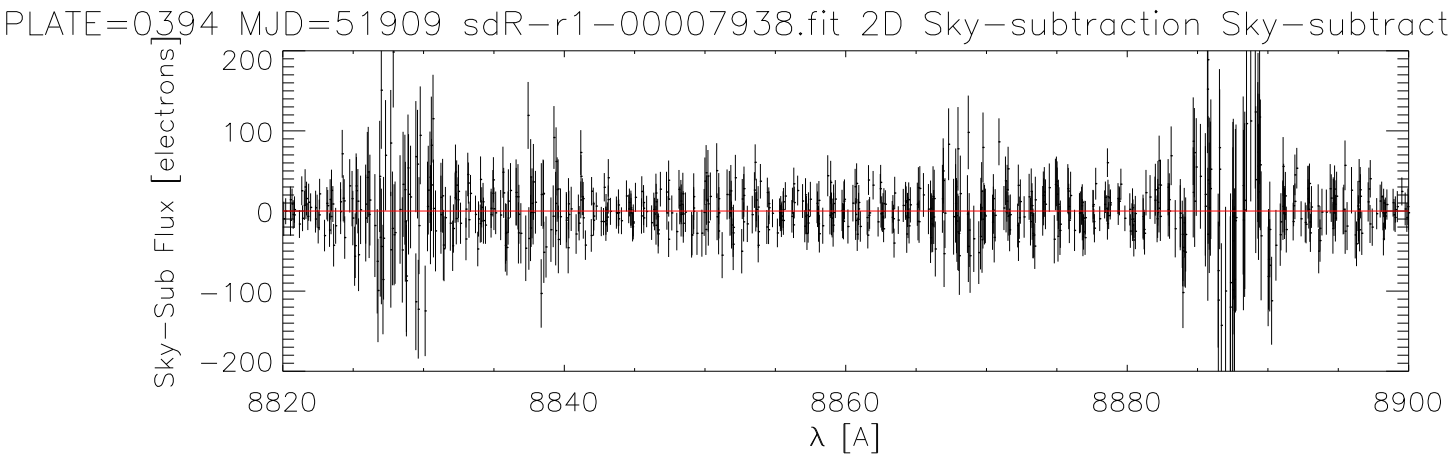

PLATE=0394 MJD=51909 sdR-r1-00007938.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

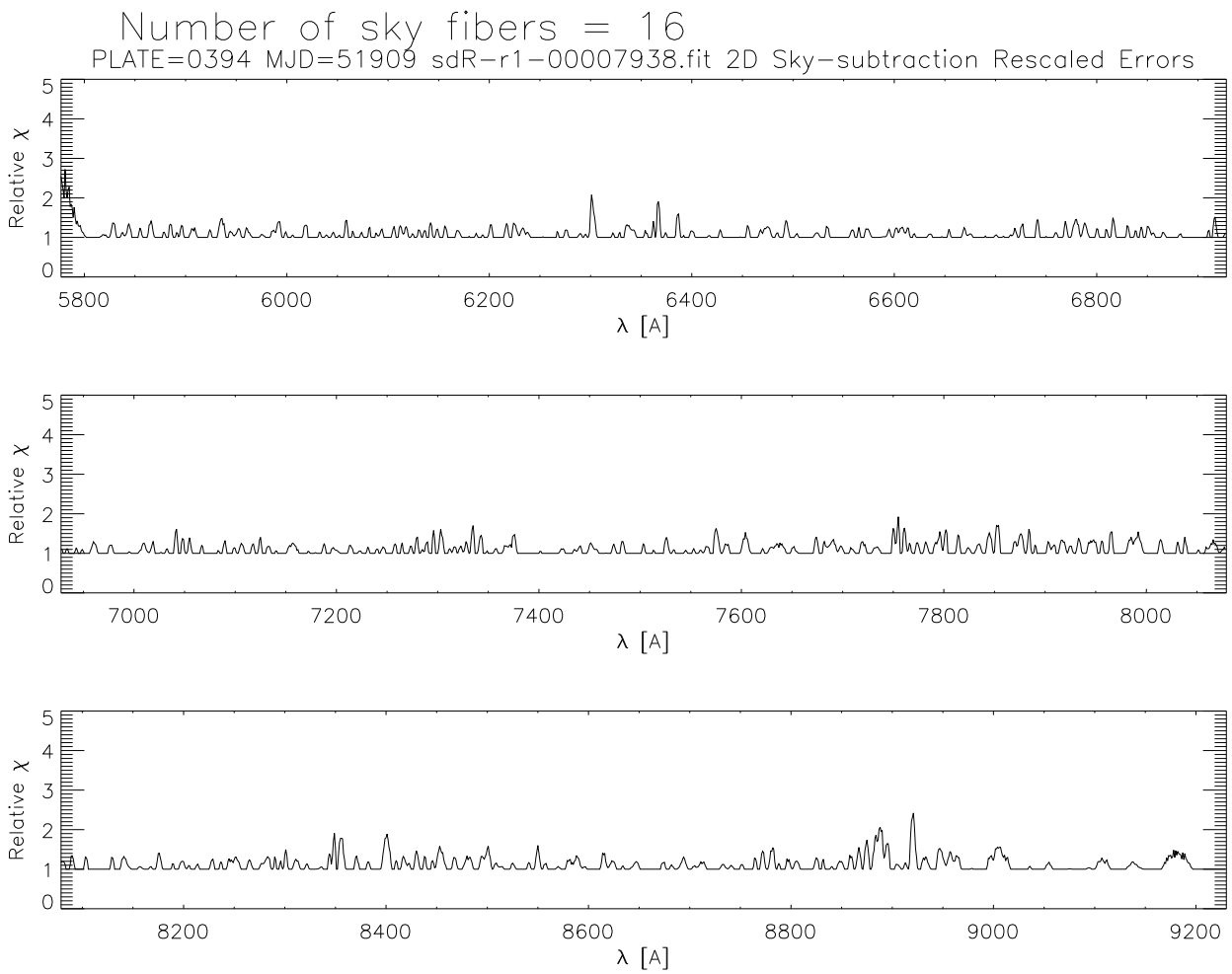

PLATE=0394 MJD=51909 sdR-r1-00007938.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

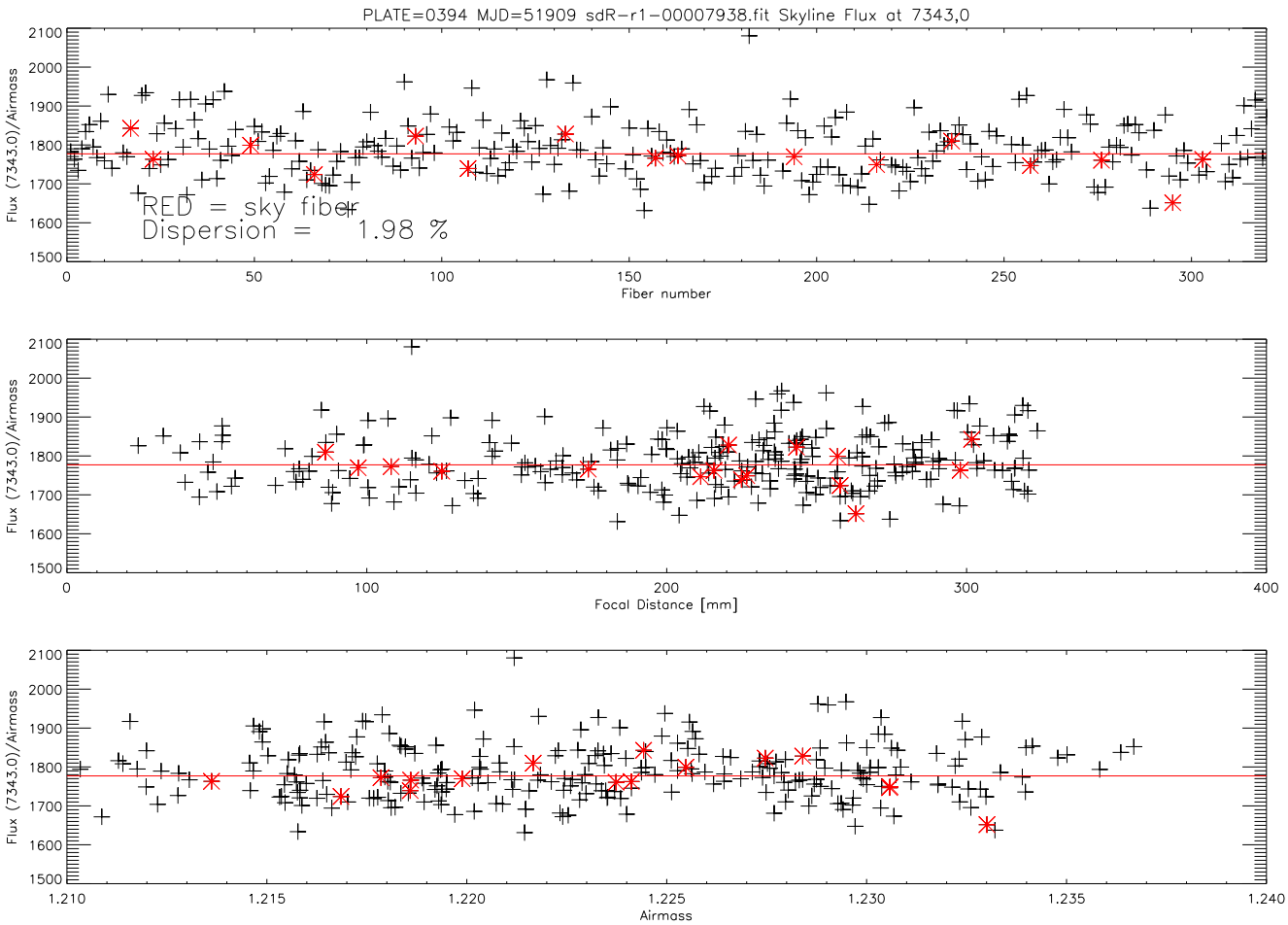

Number of sky fibers = 16
PLATE=0394 MJD=51909 sdR-r1-00007938.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

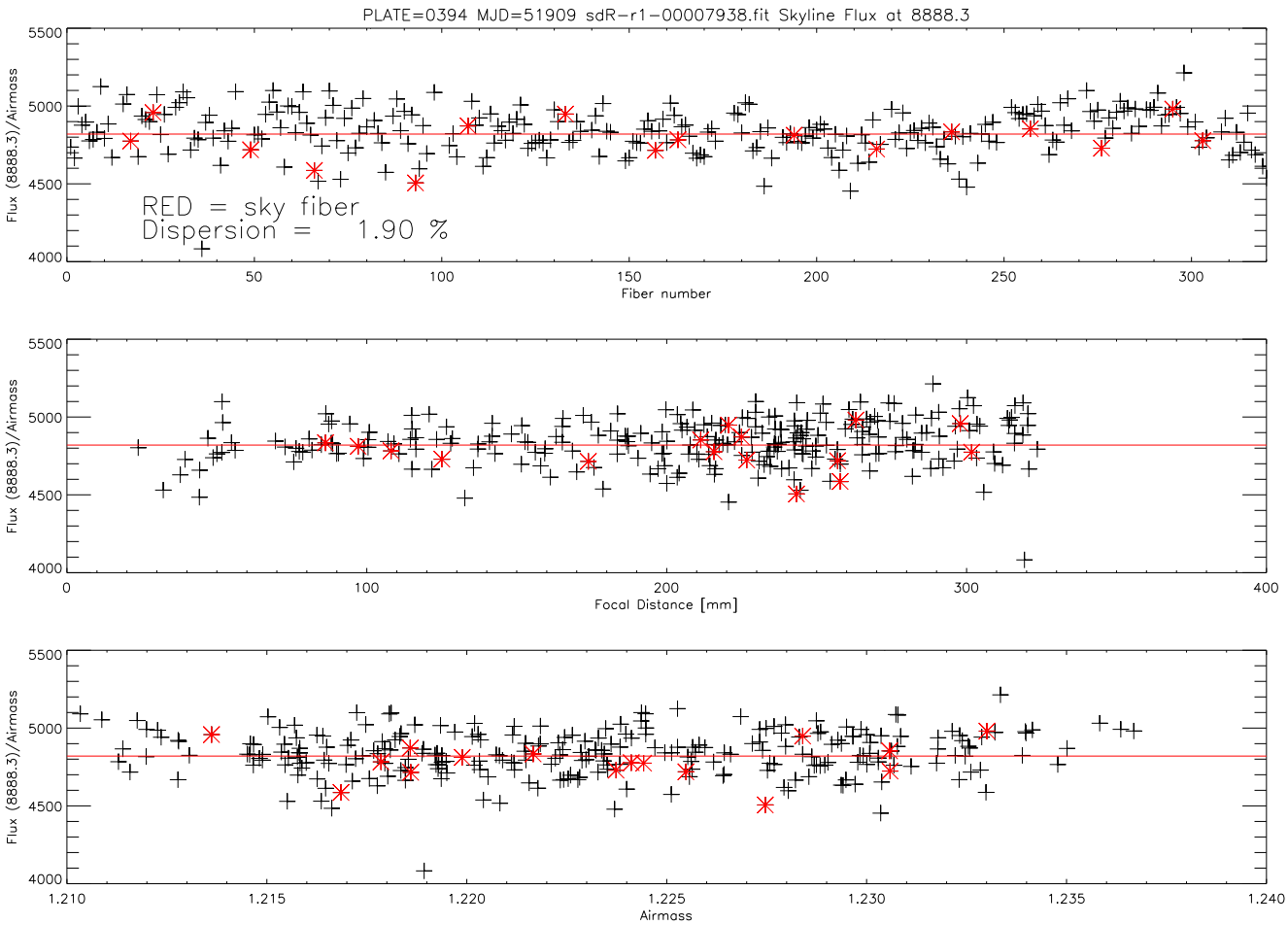

PLATE=0394 MJD=51909 sdR-r1-00007938.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

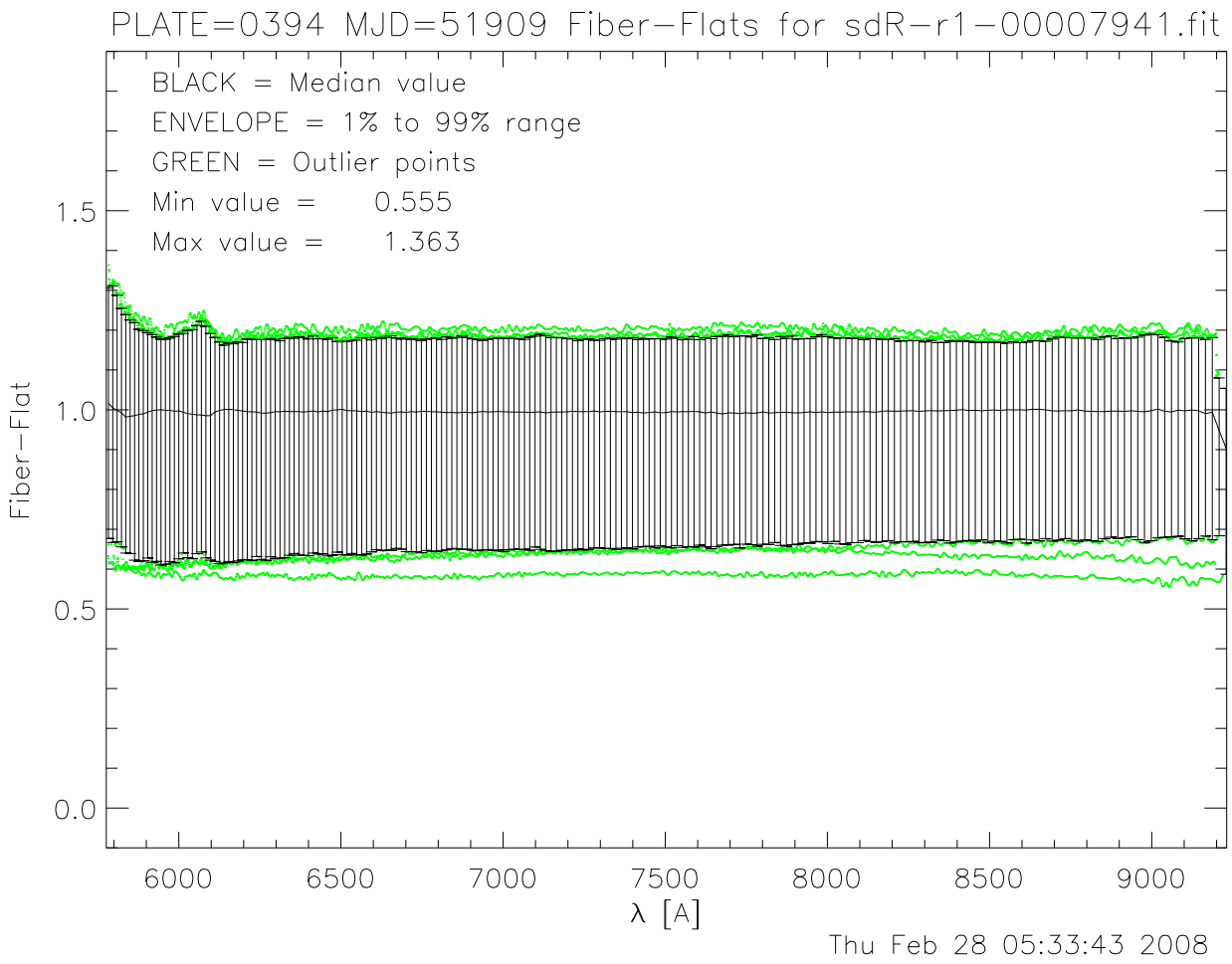

PLATE=0394 MJD=51909 sdR-r1-00007938.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

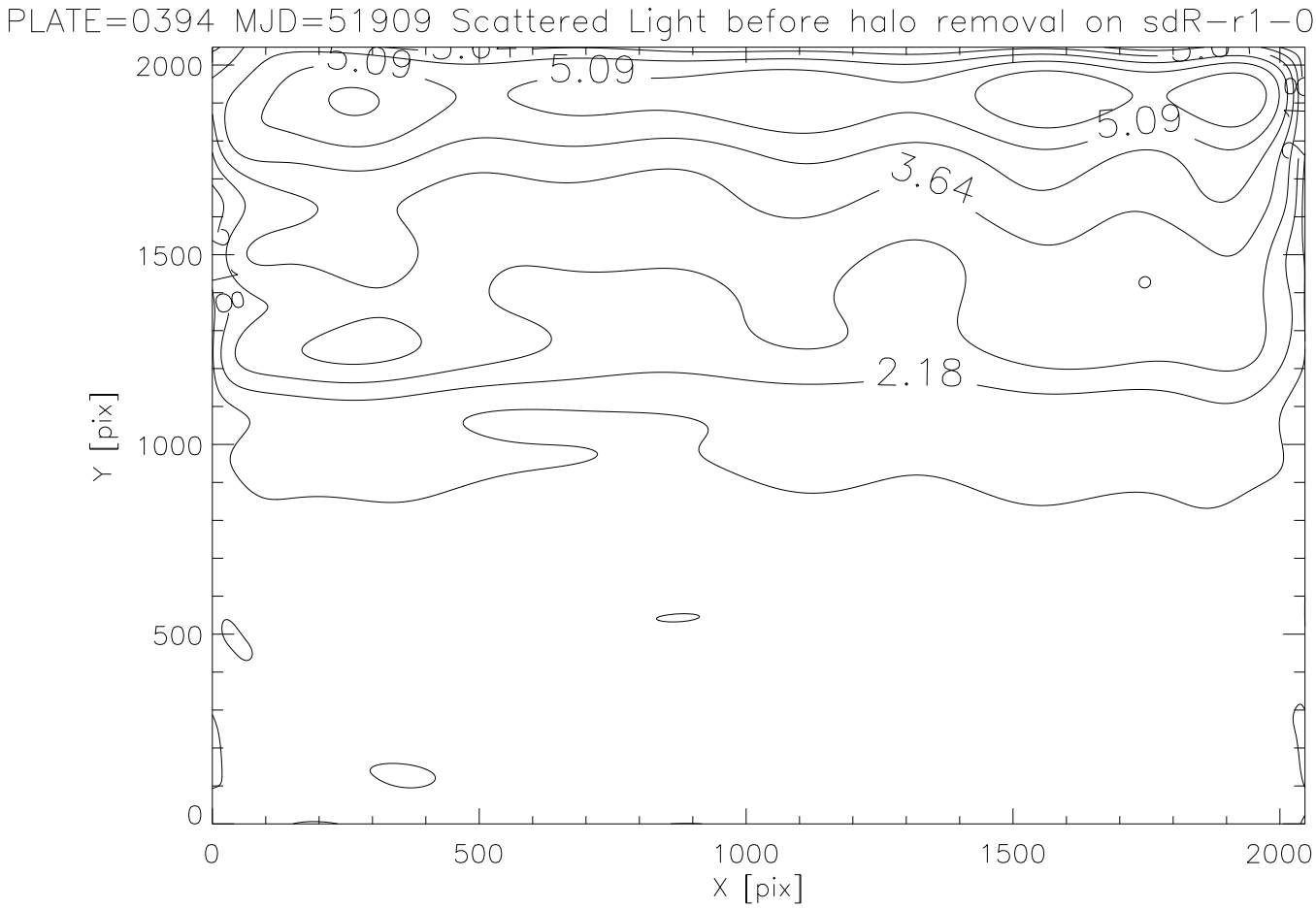

PLATE=0394 MJD=51909 sdR-r1-00007938.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

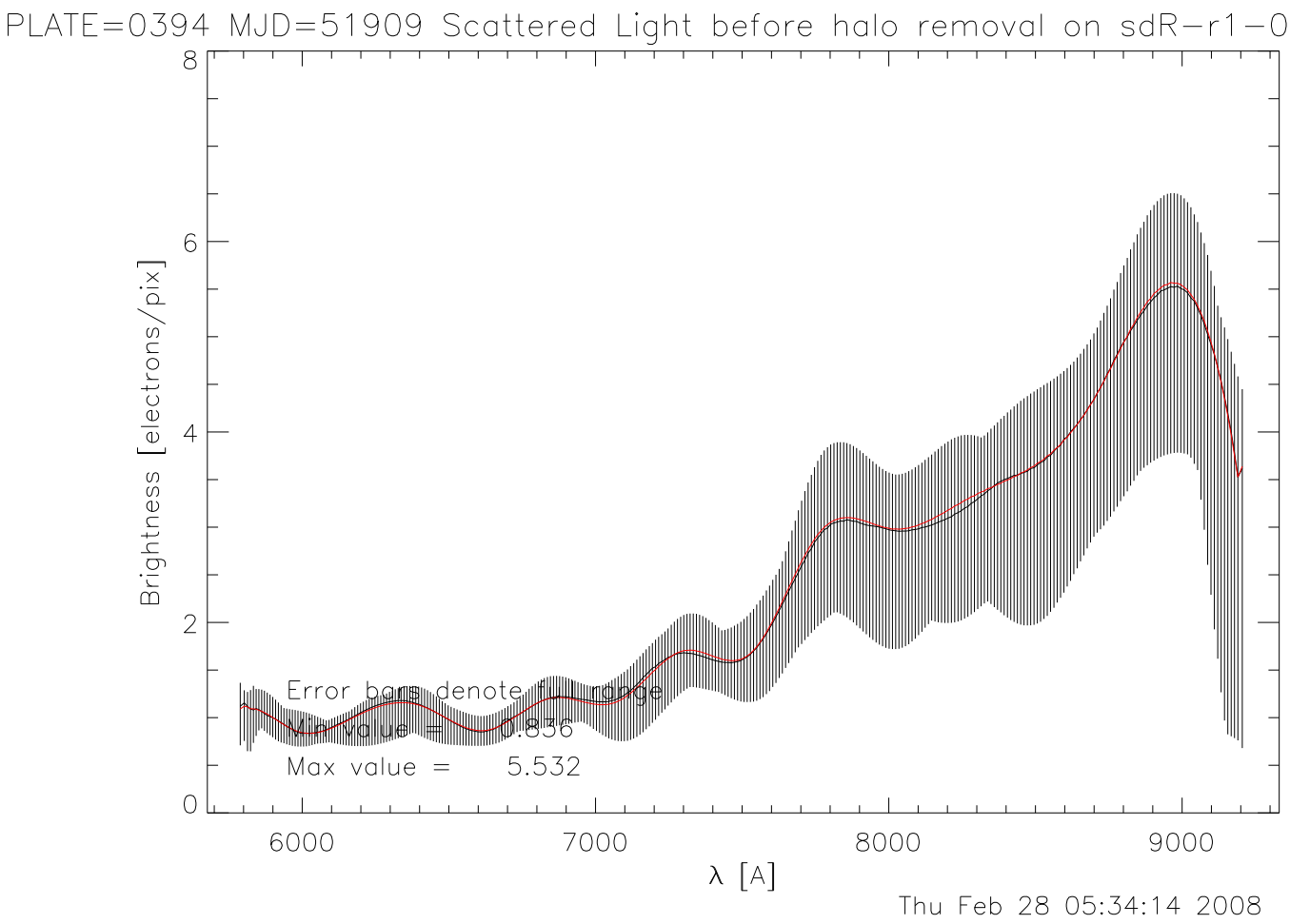

Number of sky fibers = 16
PLATE=0394 MJD=51909 sdR-r1-00007938.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

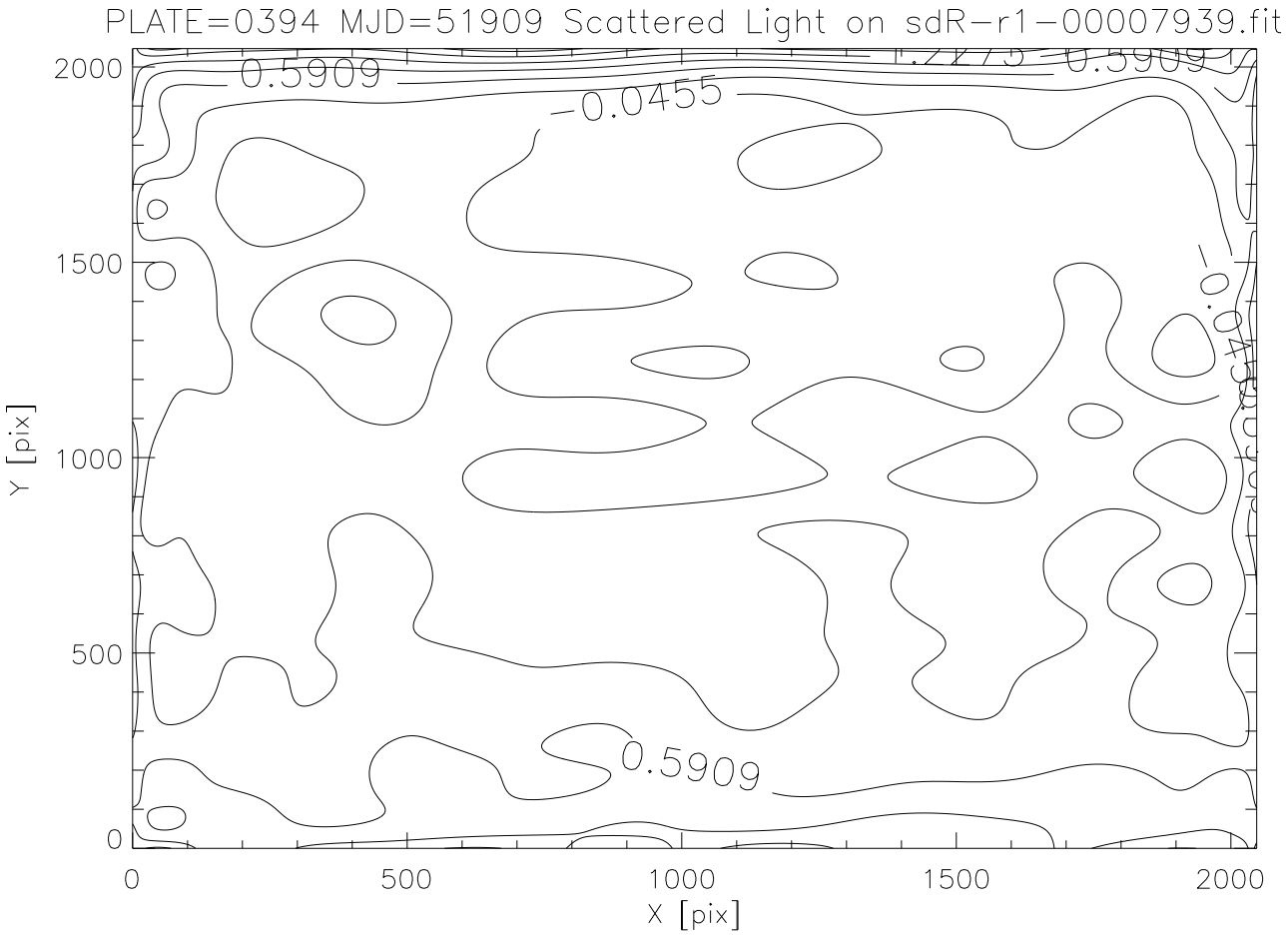

PLATE=0394 MJD=51909 sdR-r1-00007938.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 1.98 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

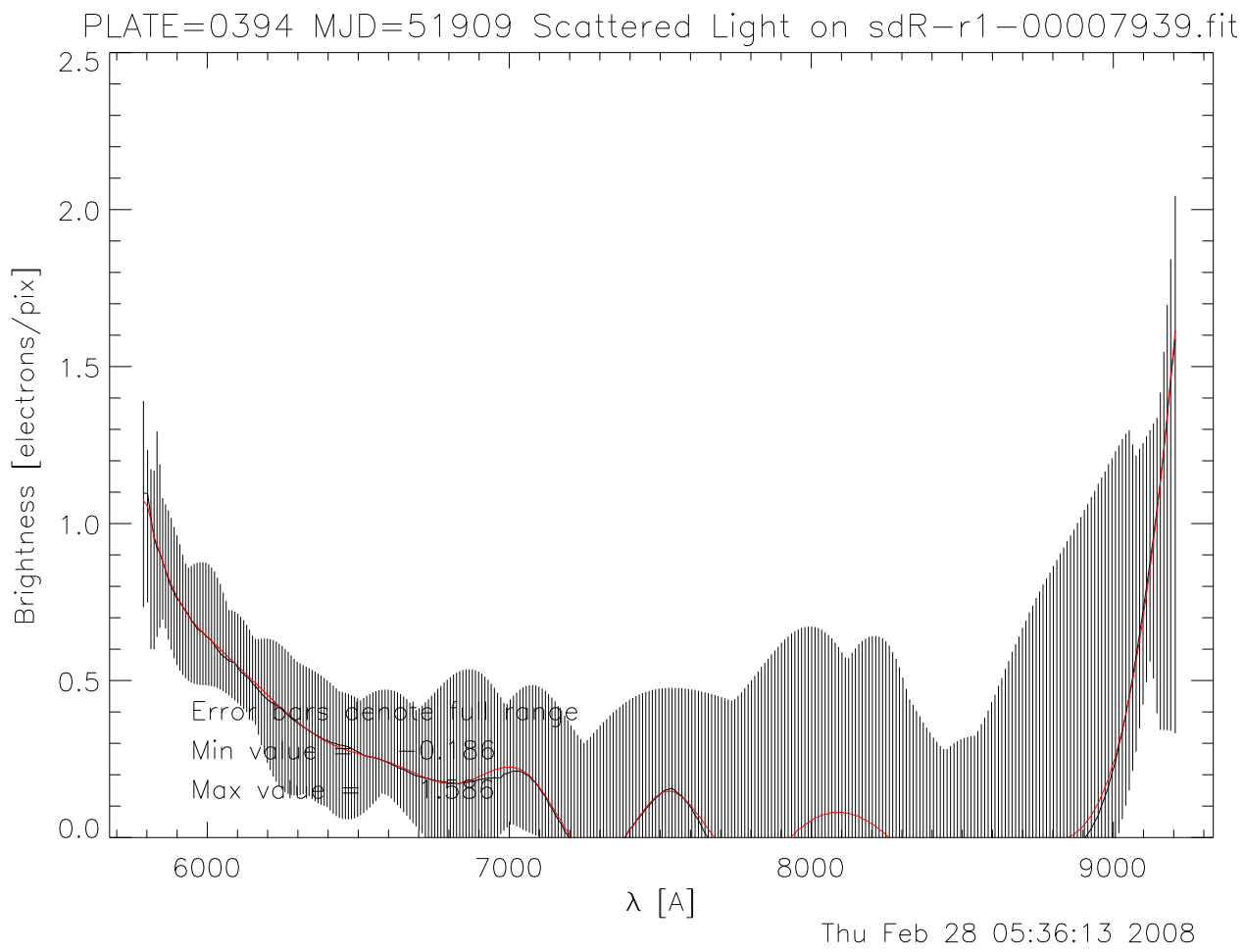

PLATE=0394 MJD=51909 sdR-r1-00007938.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.90 %
Fiber number
Focal Distance [mm]
Airmass

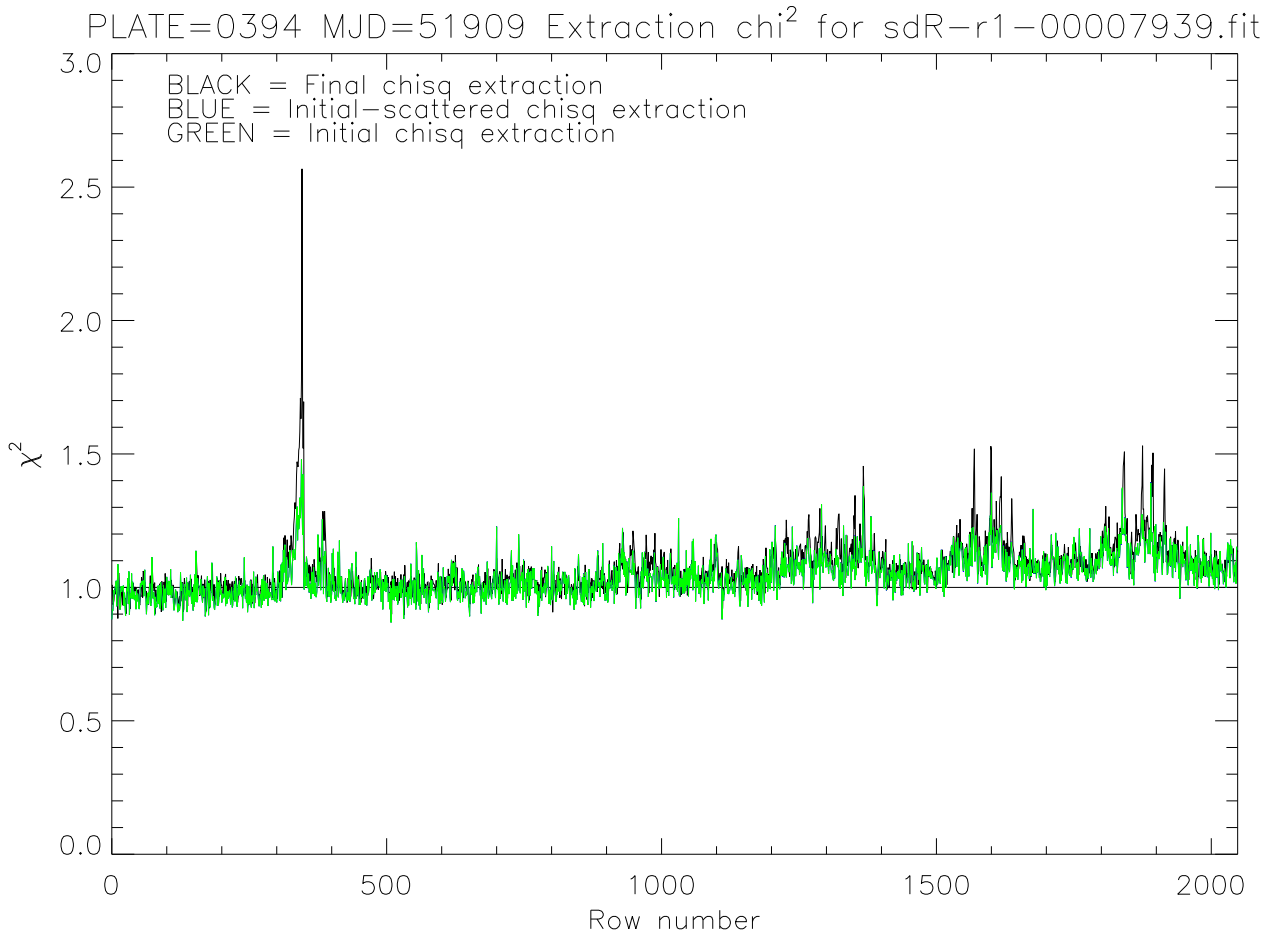

PLATE=0394 MJD=51909 Fiber−Flats for sdR−r1−00007941.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.555
Max value = 1.363
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Thu Feb 28 05:33:43 2008

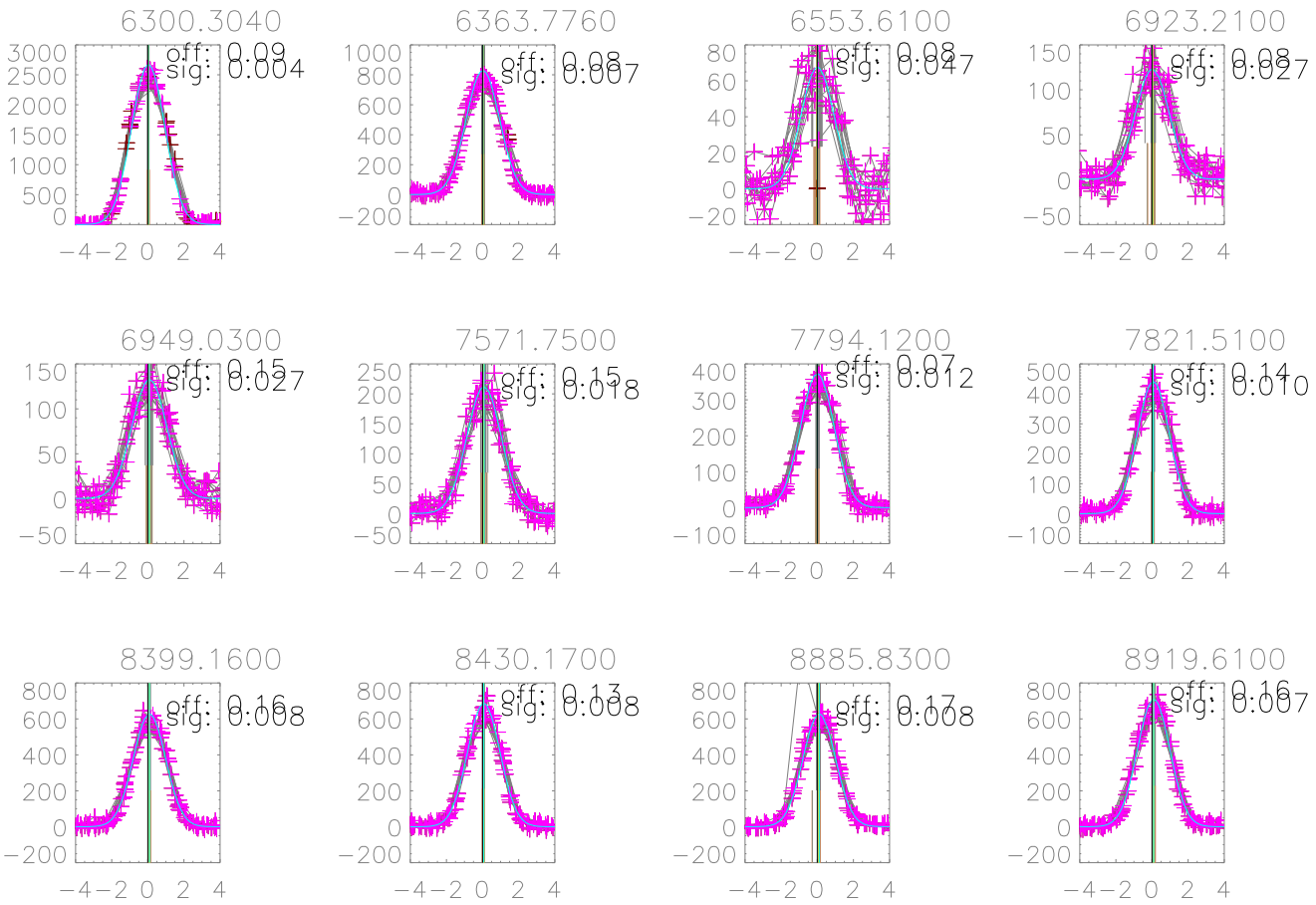

PLATE=0394 MJD=51909 Scattered Light before halo removal on sdR-r1-00007939.fi
5.09
5.09
5.09
3.64
2.18
Y [pix]
X [pix]
0
500
1000
1500
2000

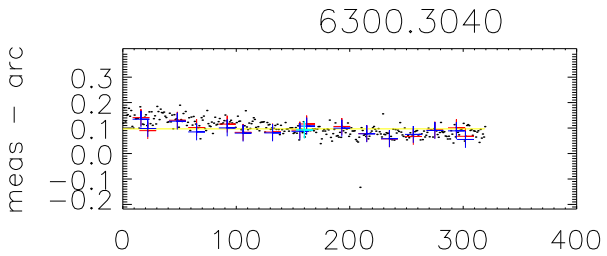

PLATE=0394 MJD=51909 Scattered Light before halo removal on sdR-r1-00007939.fi
Brightness [electrons/pix]
λ [A]
Error bars denote 1 range
Min value = 0.856
Max value = 5.532
Thu Feb 28 05:34:14 2008

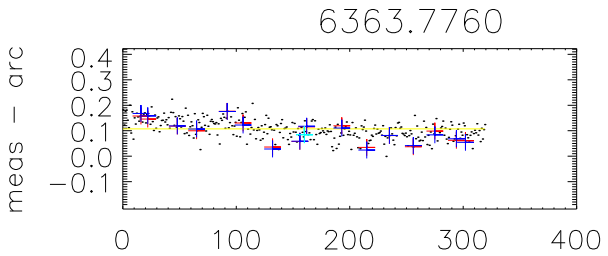

PLATE=0394 MJD=51909 Scattered Light on sdR-r1-00007939.fit
0.5909
-0.0455
0.5909
0.5909
2000
1500
1000
500
0
0
500
1000
1500
2000
Y [pix]
X [pix]

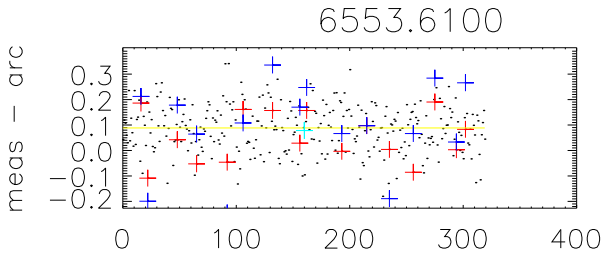

PLATE=0394 MJD=51909 Scattered Light on sdR-r1-00007939.fit
Brightness [electrons/pix]
2.5
2.0
1.5
1.0
0.5
0.0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = -0.186
Max value = 1.586
Thu Feb 28 05:36:13 2008

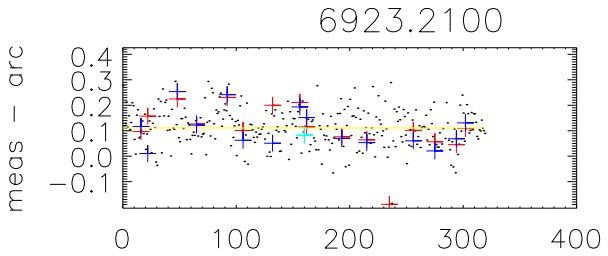

PLATE=0394 MJD=51909 Extraction chi^2 for sdR−r1−00007939.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

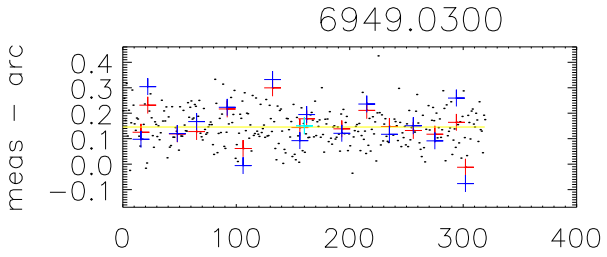

6300.3040
off: 0.09
sig: 0.004
6363.7760
off: 0.08
sig: 0.007
6553.6100
off: 0.08
sig: 0.047
6923.2100
off: 0.08
sig: 0.027
6949.0300
off: 0.15
sig: 0.027
7571.7500
off: 0.15
sig: 0.018
7794.1200
off: 0.07
sig: 0.012
7821.5100
off: 0.14
sig: 0.010
8399.1600
off: 0.16
sig: 0.008
8430.1700
off: 0.13
sig: 0.008
8885.8300
off: 0.17
sig: 0.008
8919.6100
off: 0.16
sig: 0.007

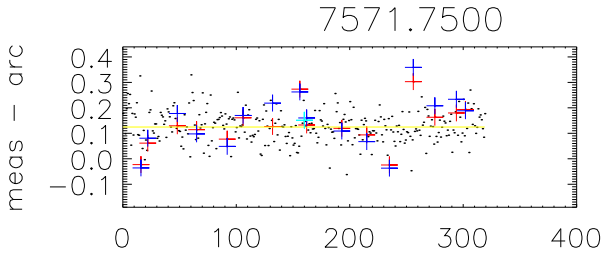

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

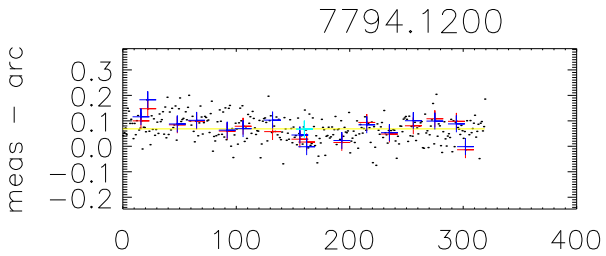

6363.7760
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

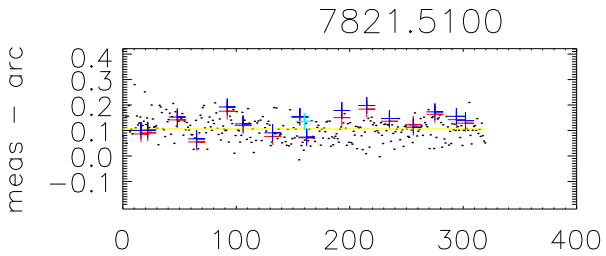

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

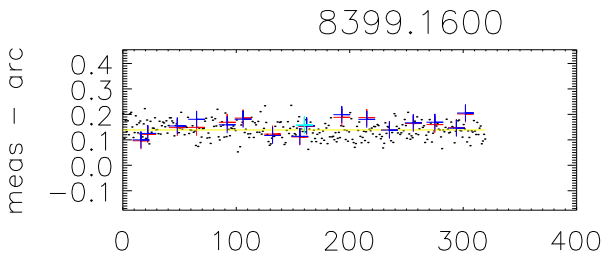

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

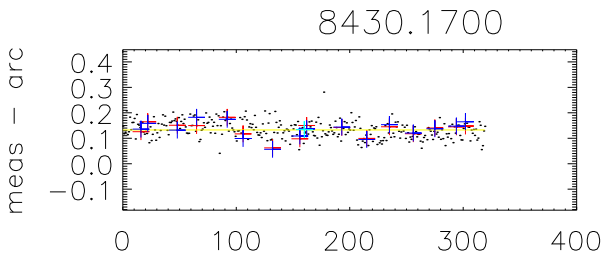

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

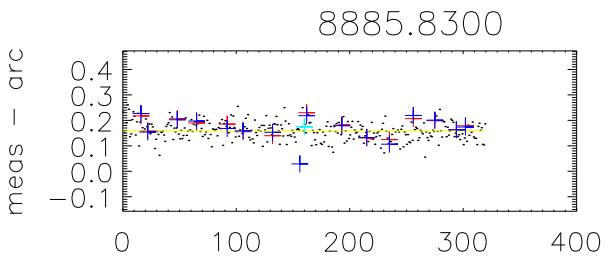

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

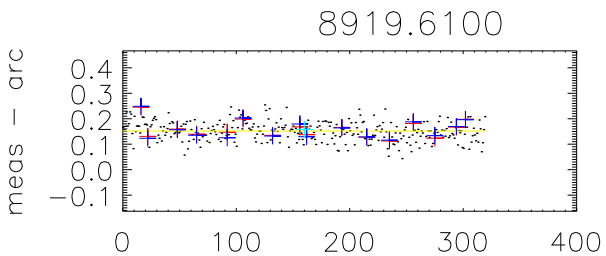

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

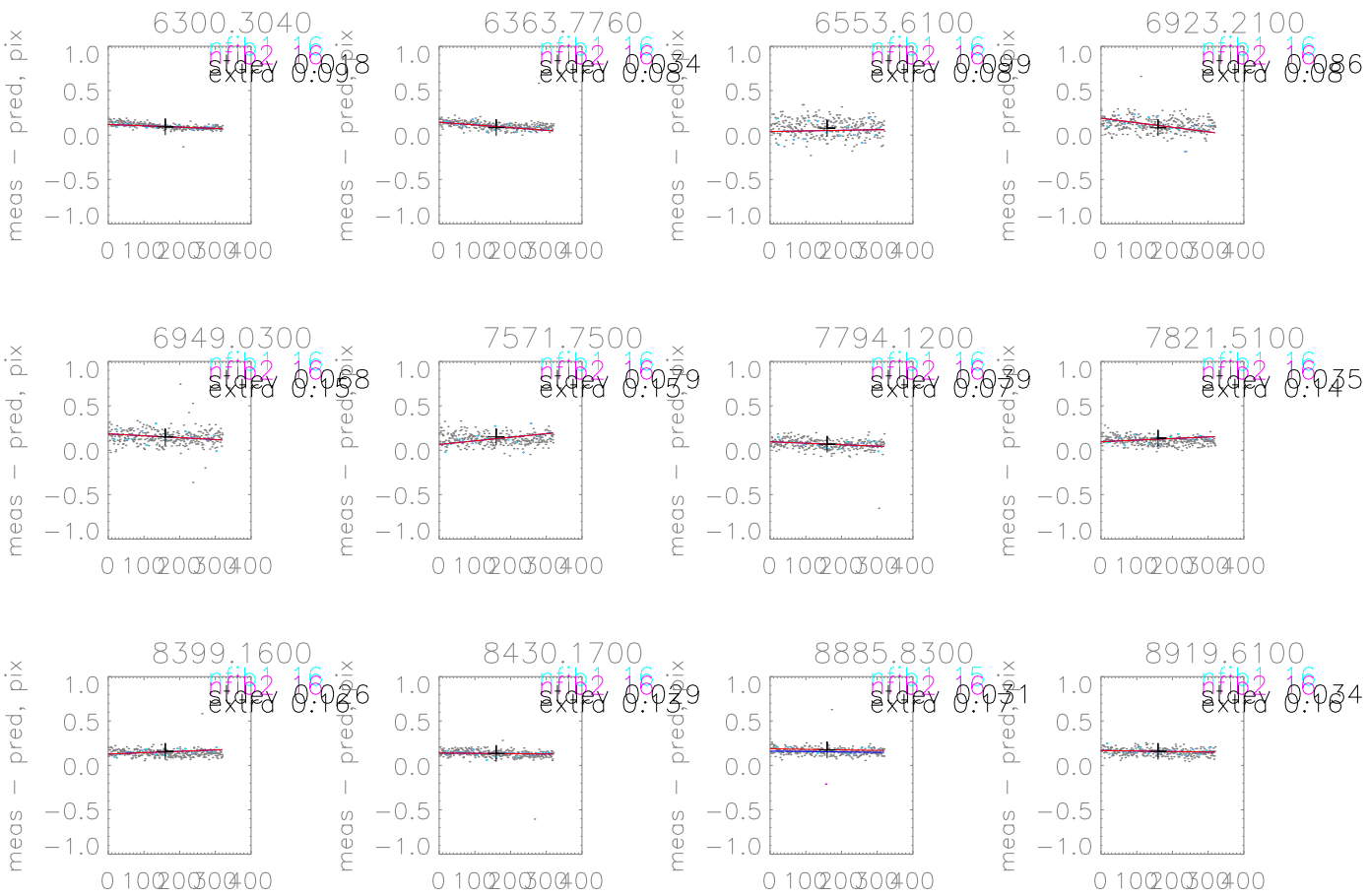

7821.5100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

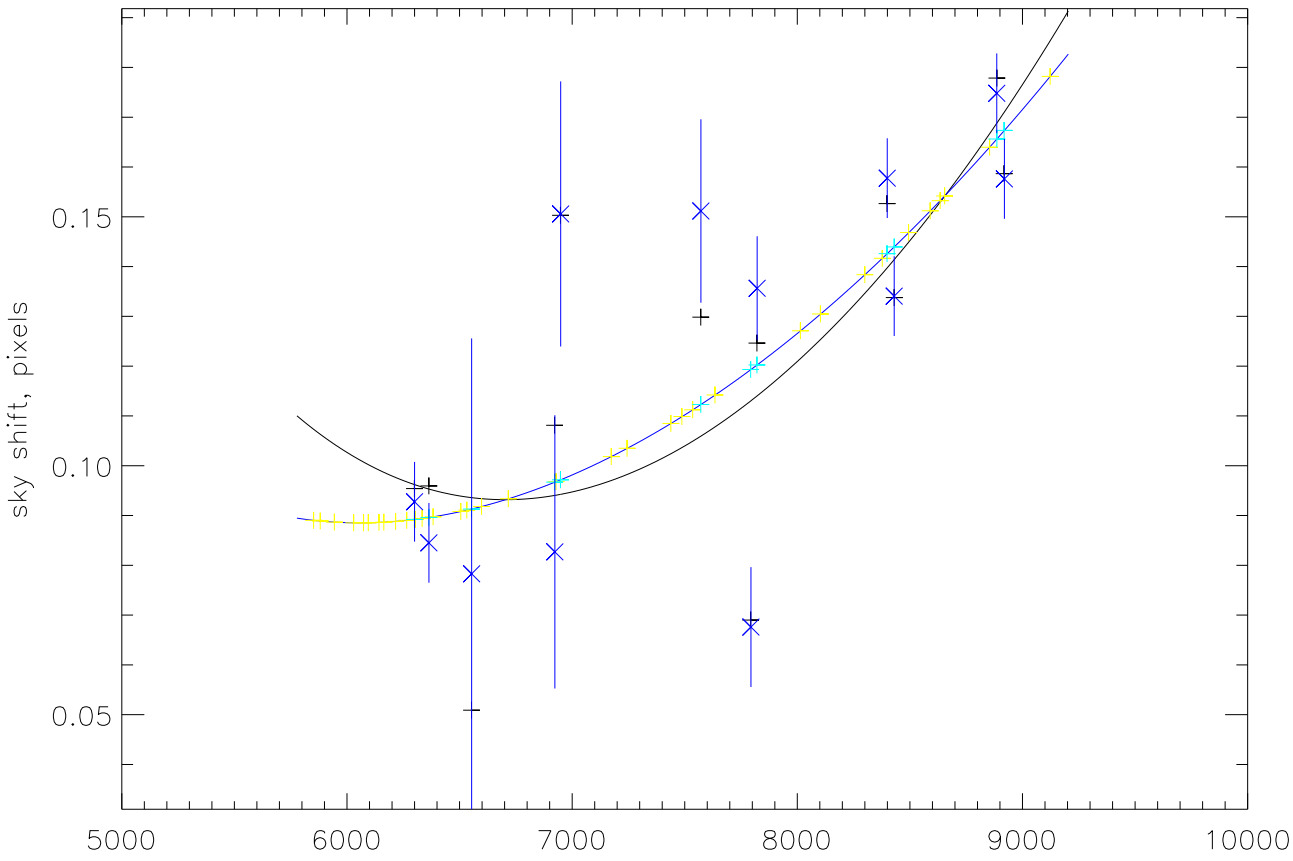

8399.1600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

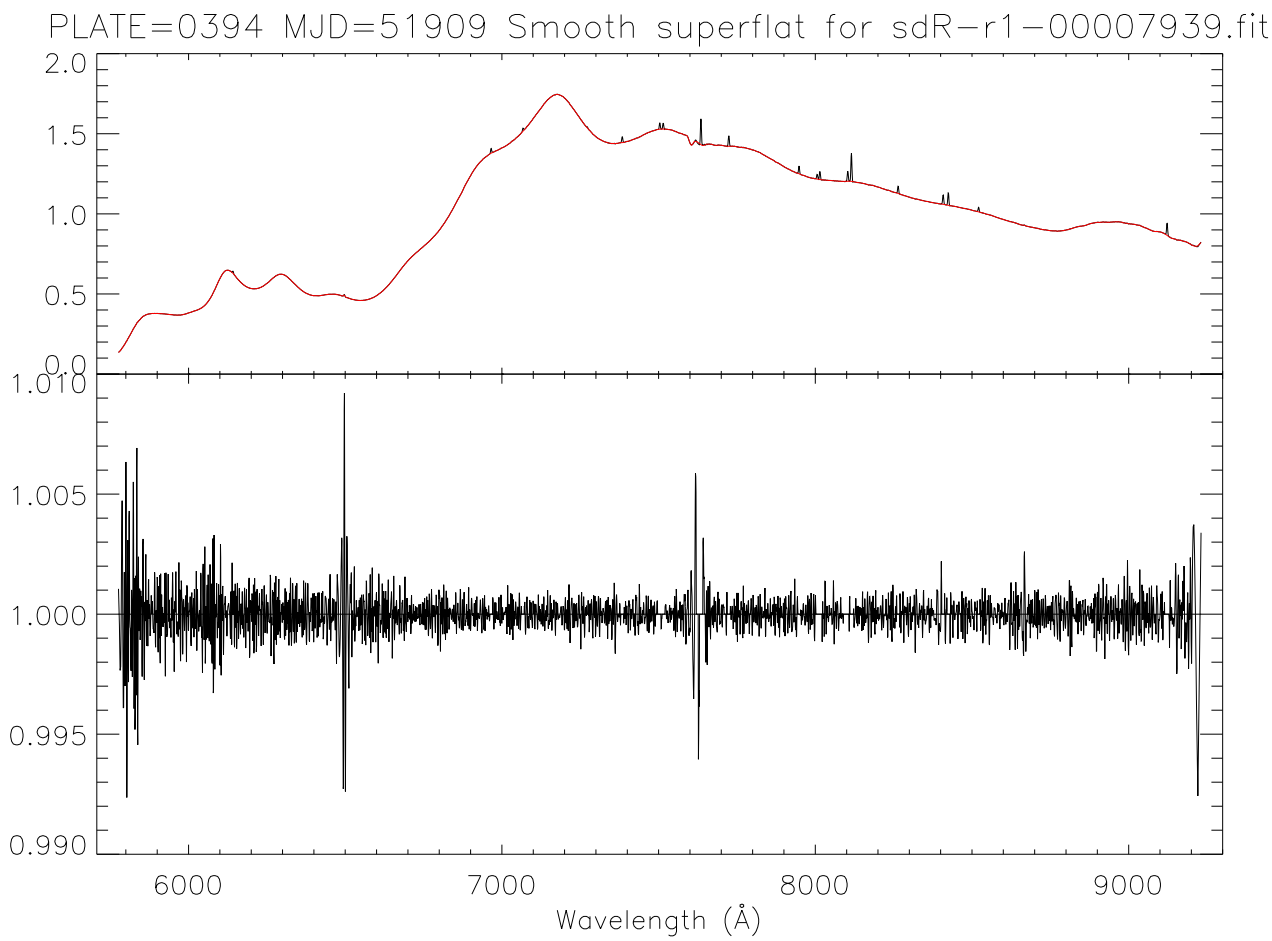

8885.8300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

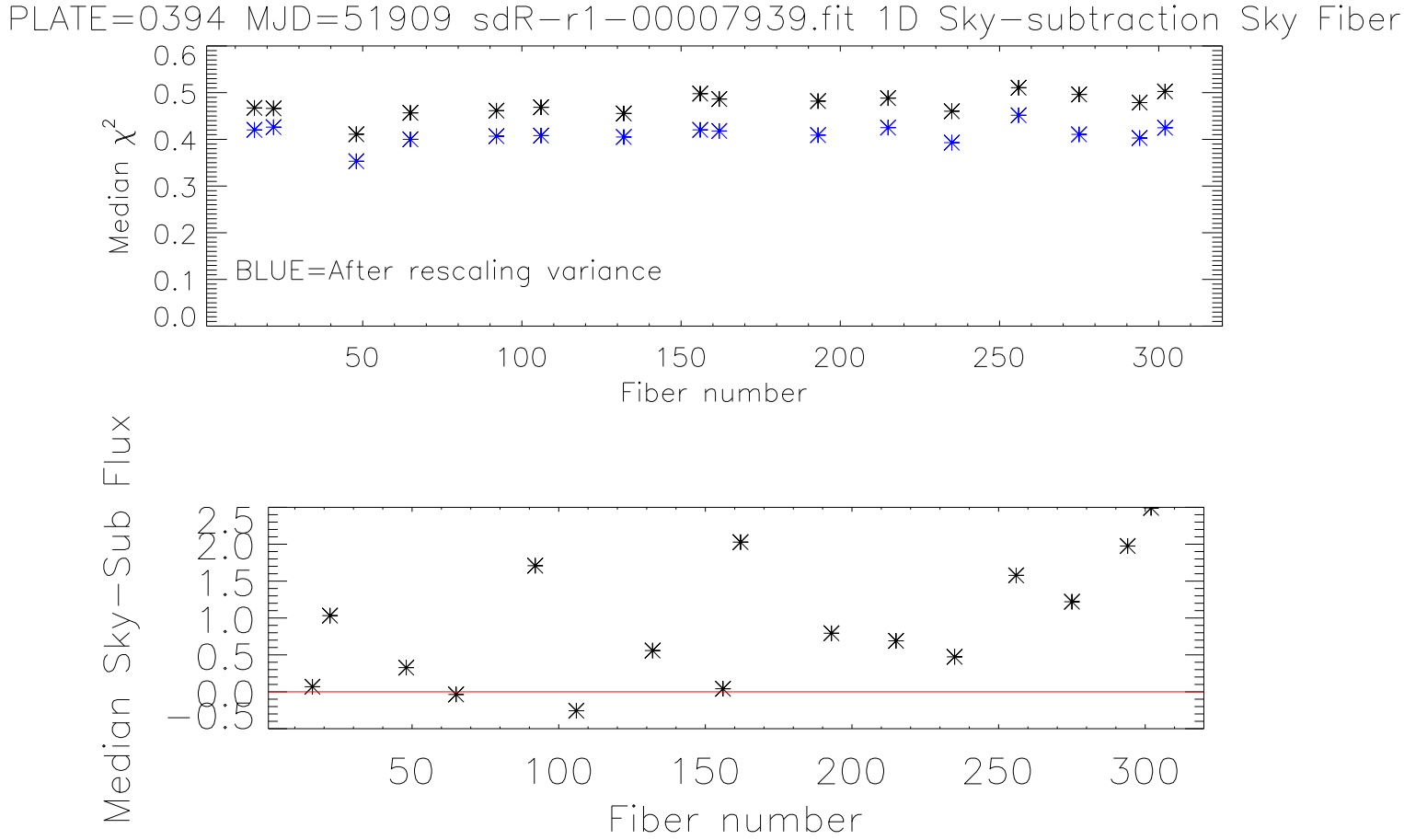

8919.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

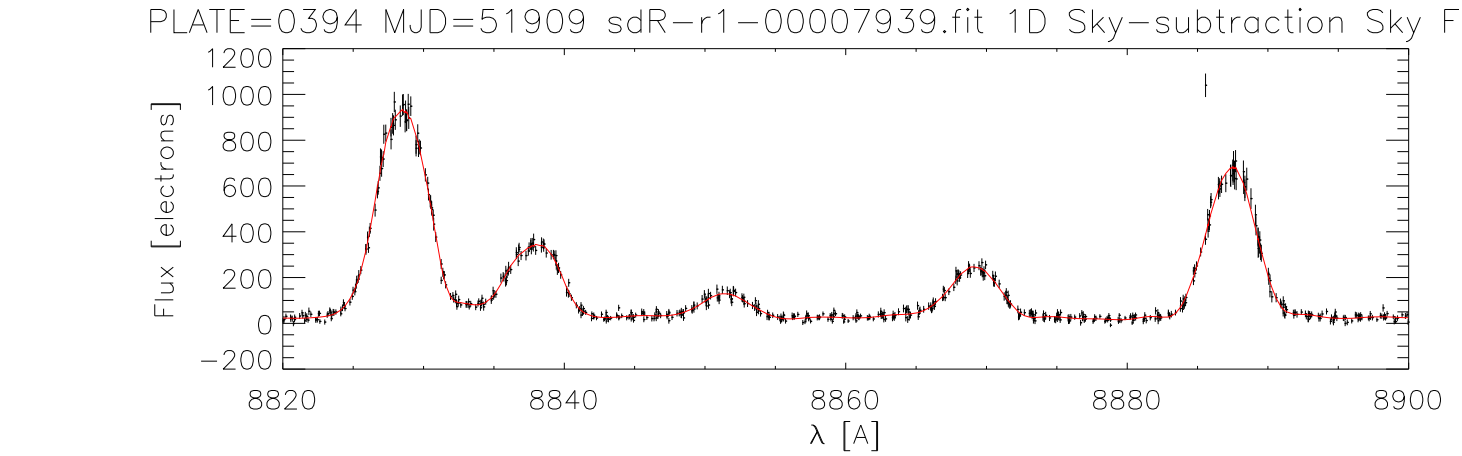

6300.3040
stdev 0.098
extra 0.098
6363.7760
stdev 0.084
extra 0.084
6553.6100
stdev 0.089
extra 0.089
6923.2100
stdev 0.086
extra 0.086
6949.0300
stdev 0.068
extra 0.068
7571.7500
stdev 0.079
extra 0.079
7794.1200
stdev 0.079
extra 0.079
7821.5100
stdev 0.075
extra 0.075
8399.1600
stdev 0.026
extra 0.026
8430.1700
stdev 0.029
extra 0.029
8885.8300
stdev 0.031
extra 0.031
8919.6100
stdev 0.034
extra 0.034
meas − pred, pix

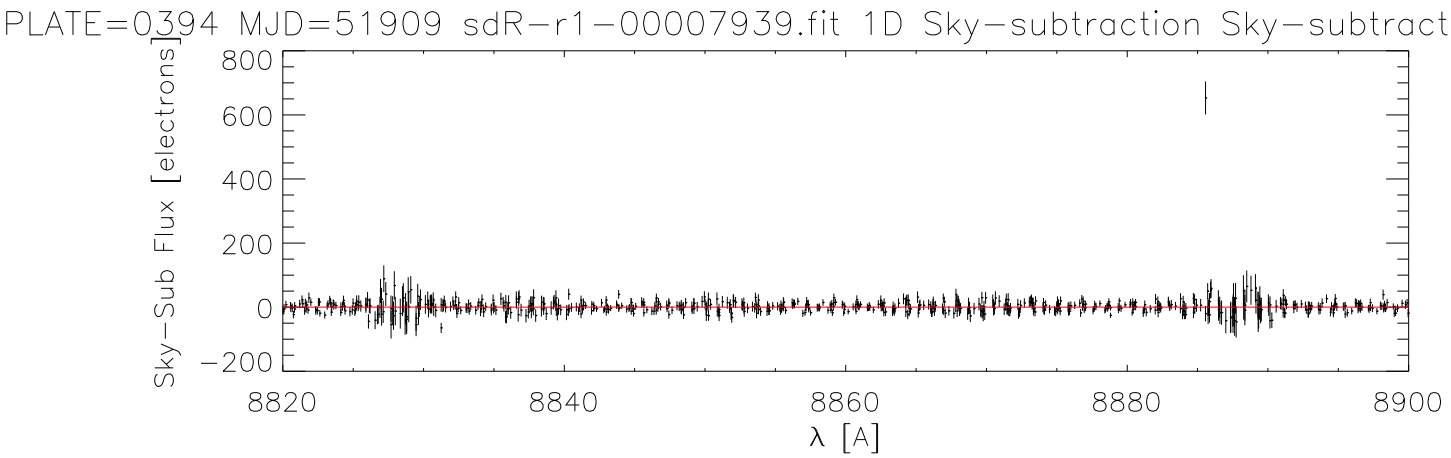

sky shift, pixels
0.15
0.10
0.05
5000
6000
7000
8000
9000
10000

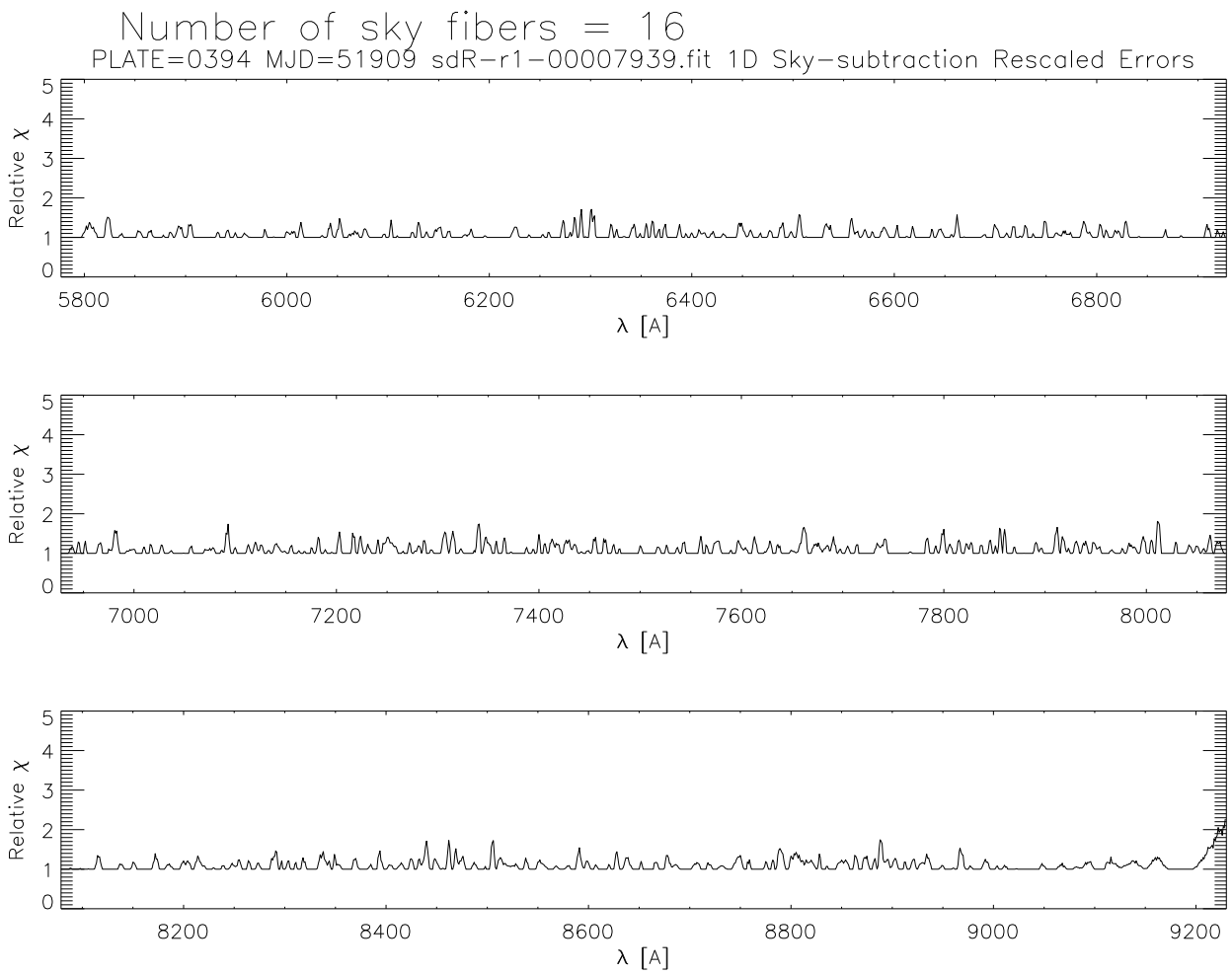
es= 0.0000

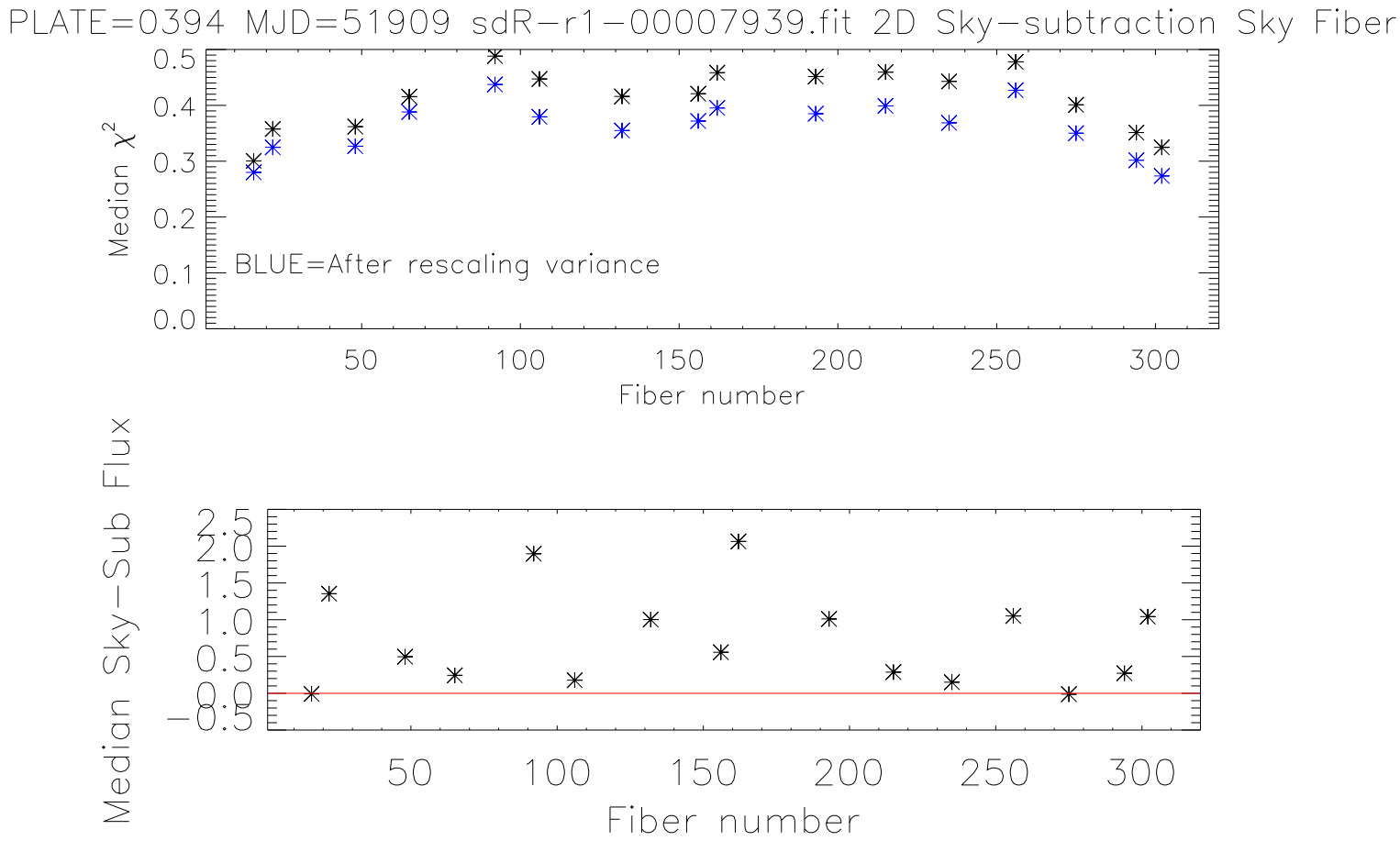

PLATE=0394 MJD=51909 Smooth superflat for sdR-r1-00007939.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

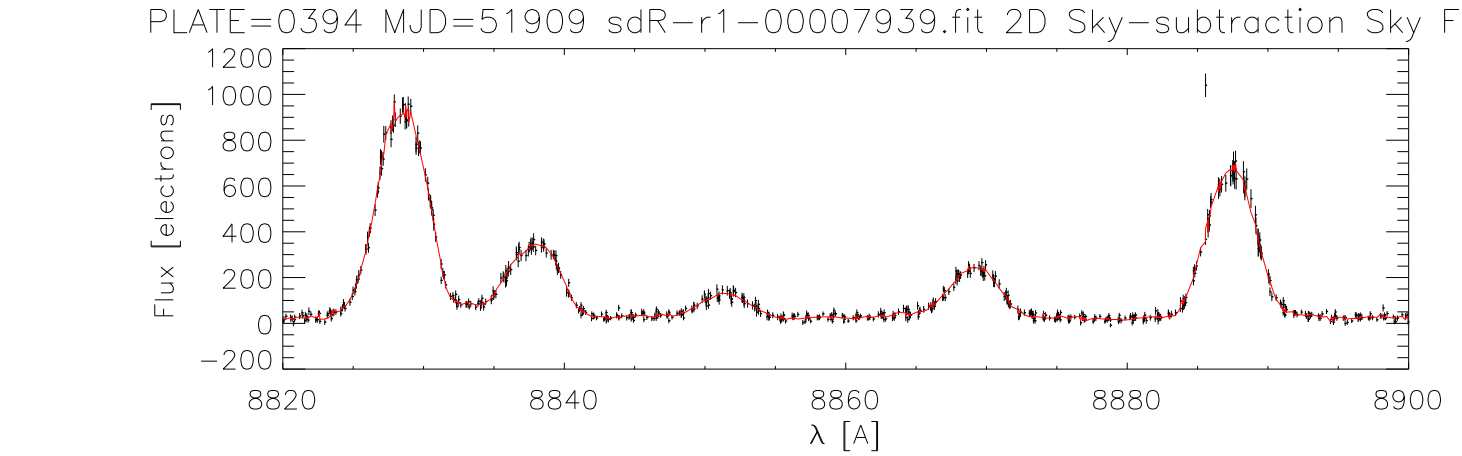

PLATE=0394 MJD=51909 sdR-r1-00007939.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

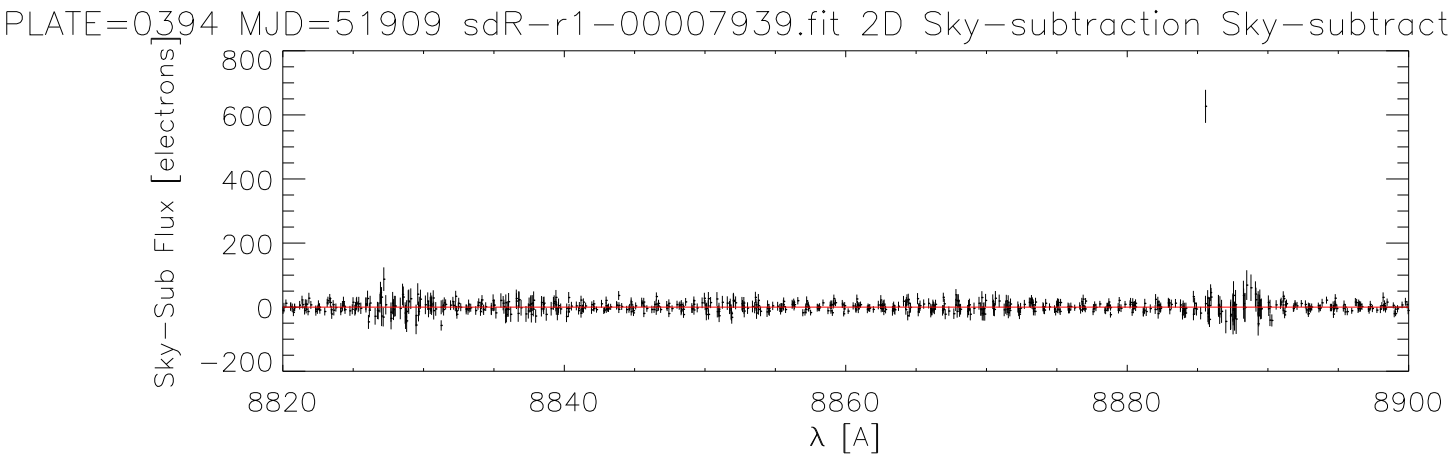

PLATE=0394 MJD=51909 sdR-r1-00007939.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1200
1000
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

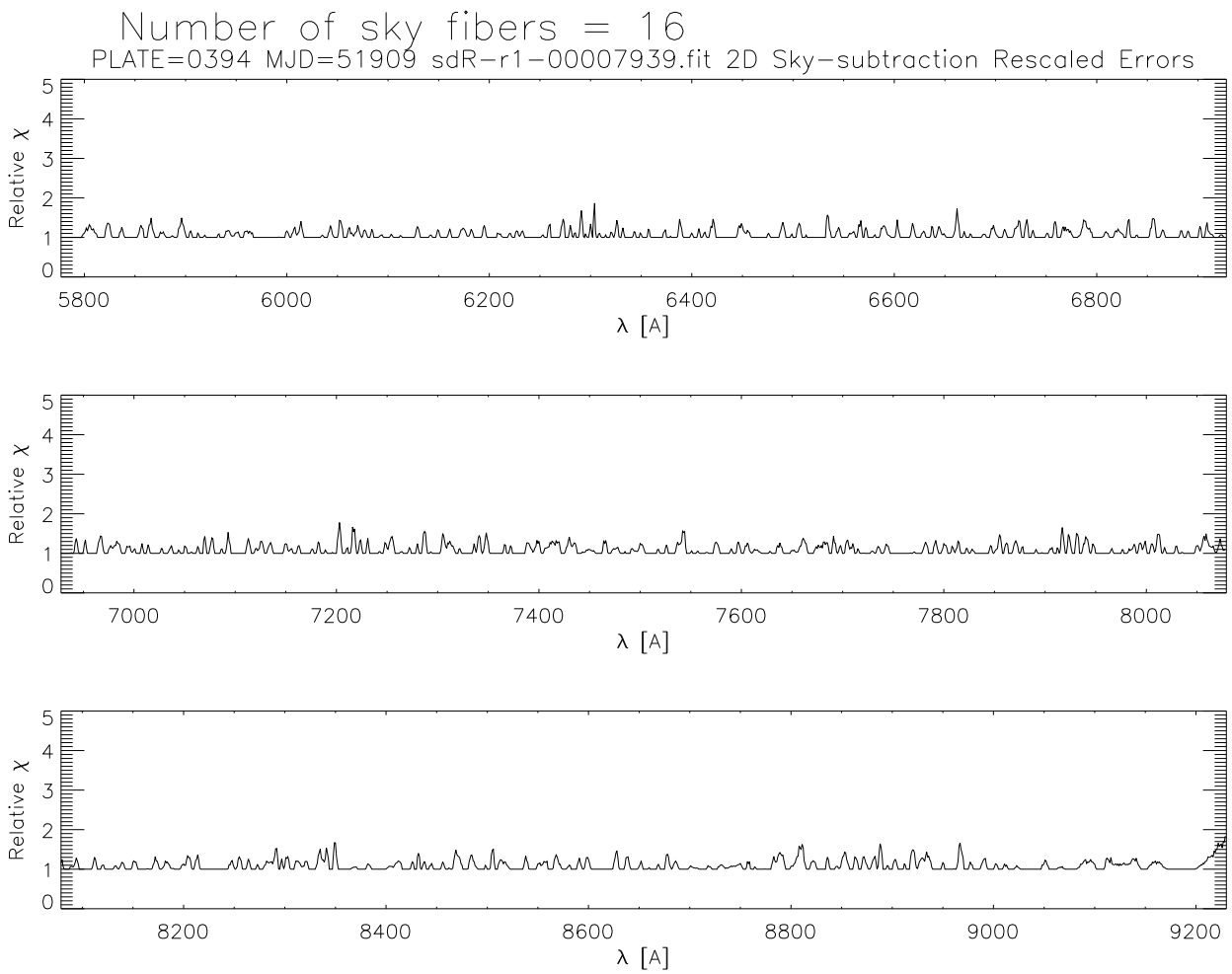

PLATE=0394 MJD=51909 sdR-r1-00007939.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

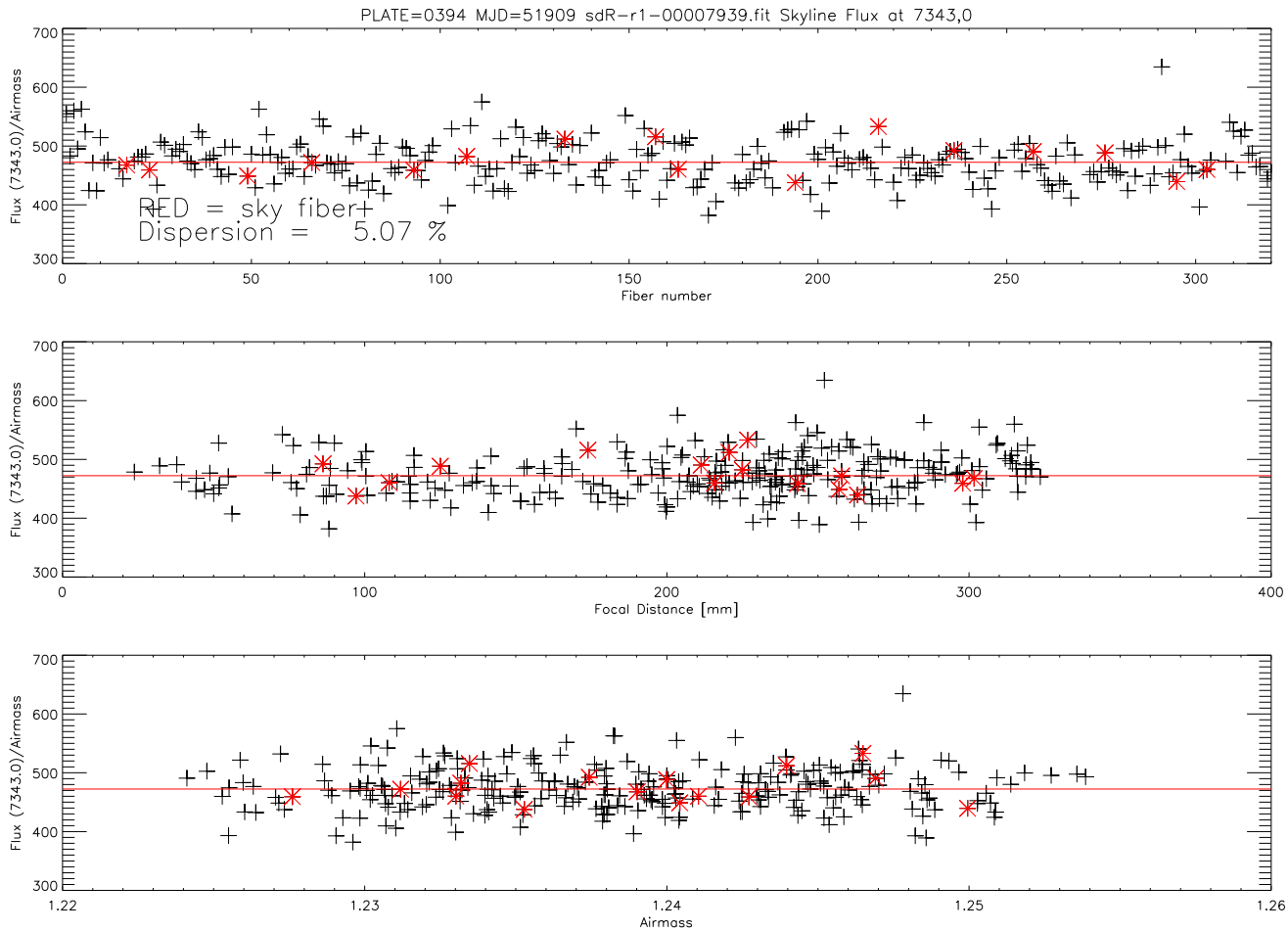

Number of sky fibers = 16
PLATE=0394 MJD=51909 sdR-r1-00007939.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

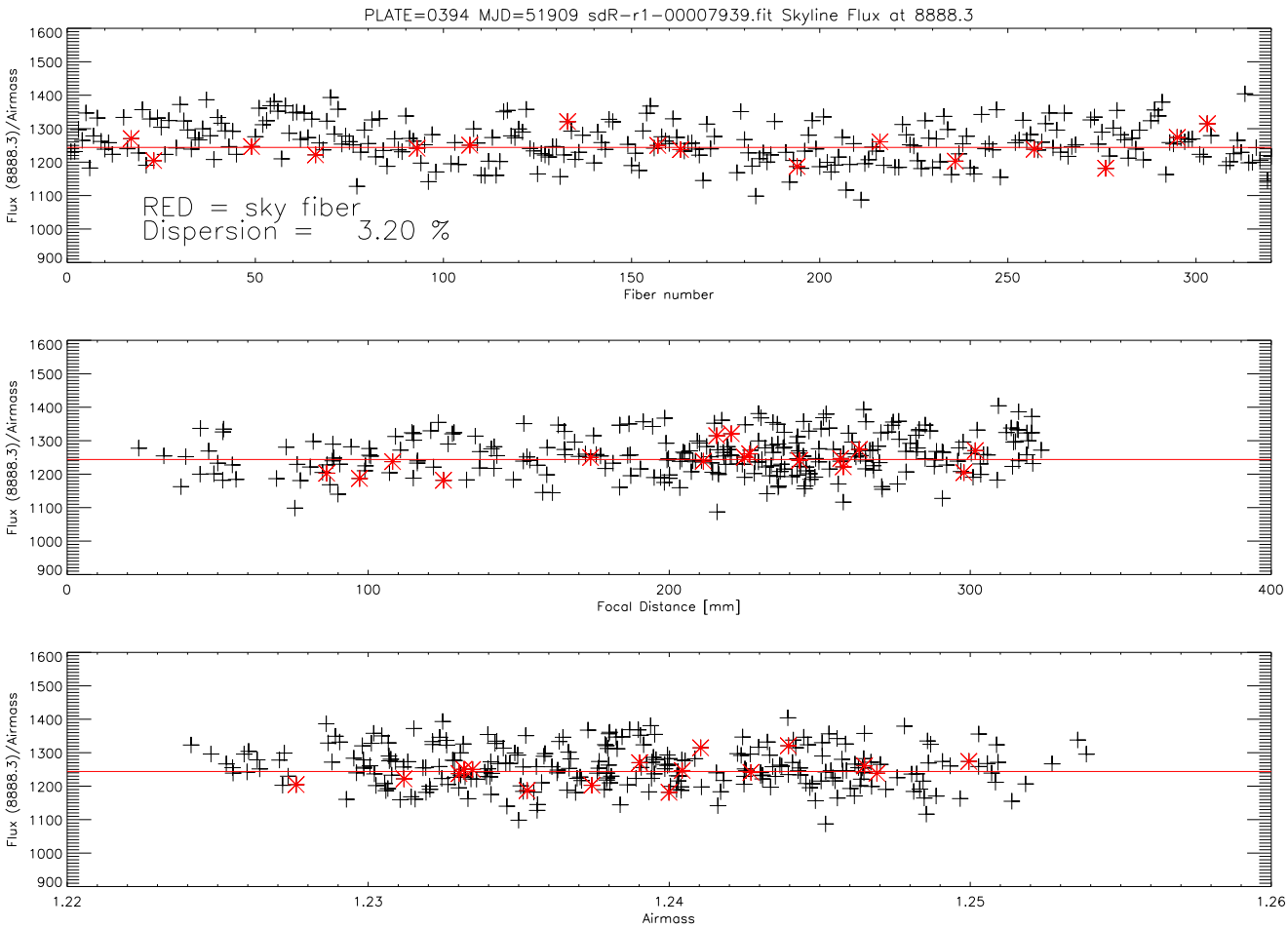

PLATE=0394 MJD=51909 sdR-r1-00007939.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

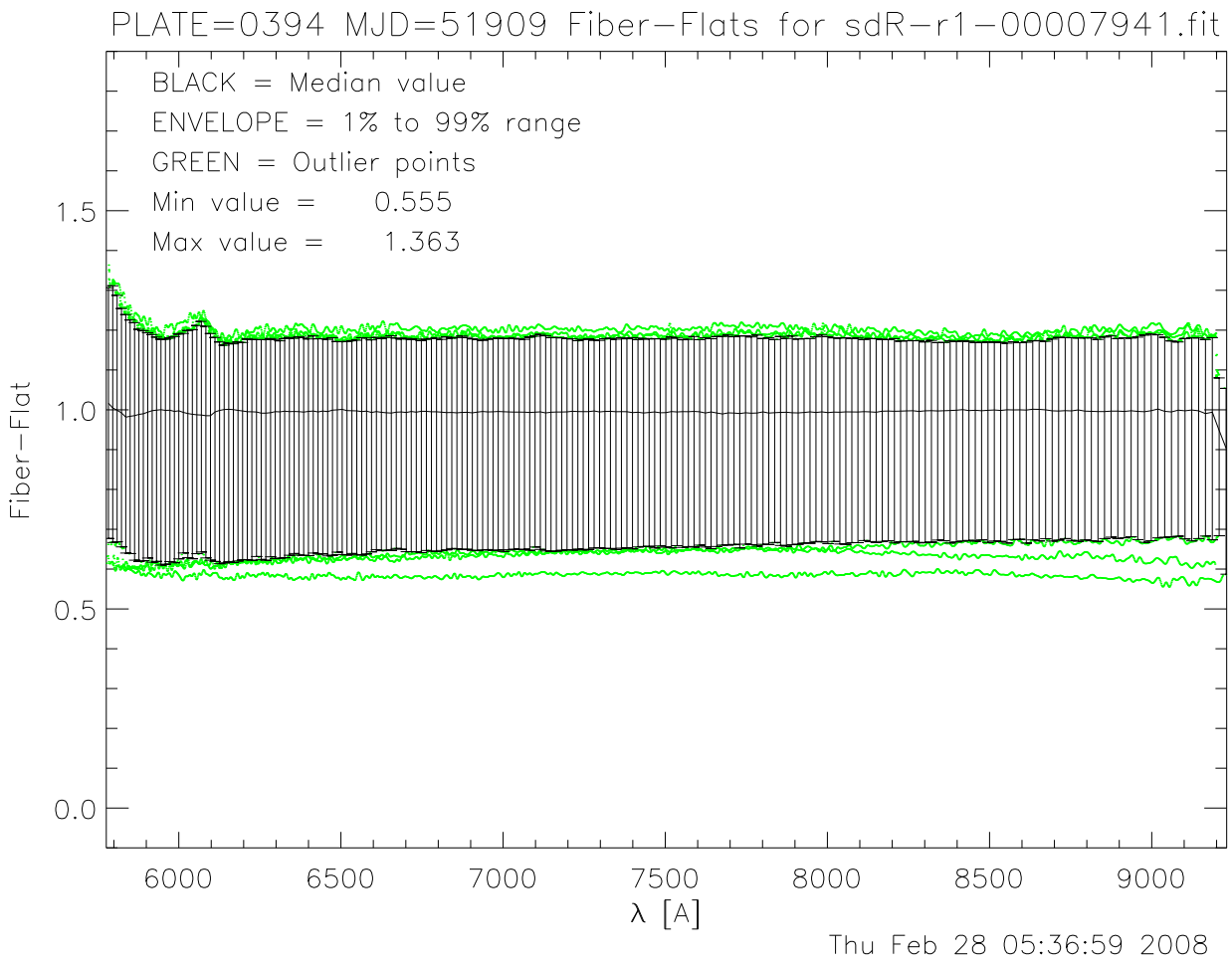

PLATE=0394 MJD=51909 sdR-r1-00007939.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1200
1000
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

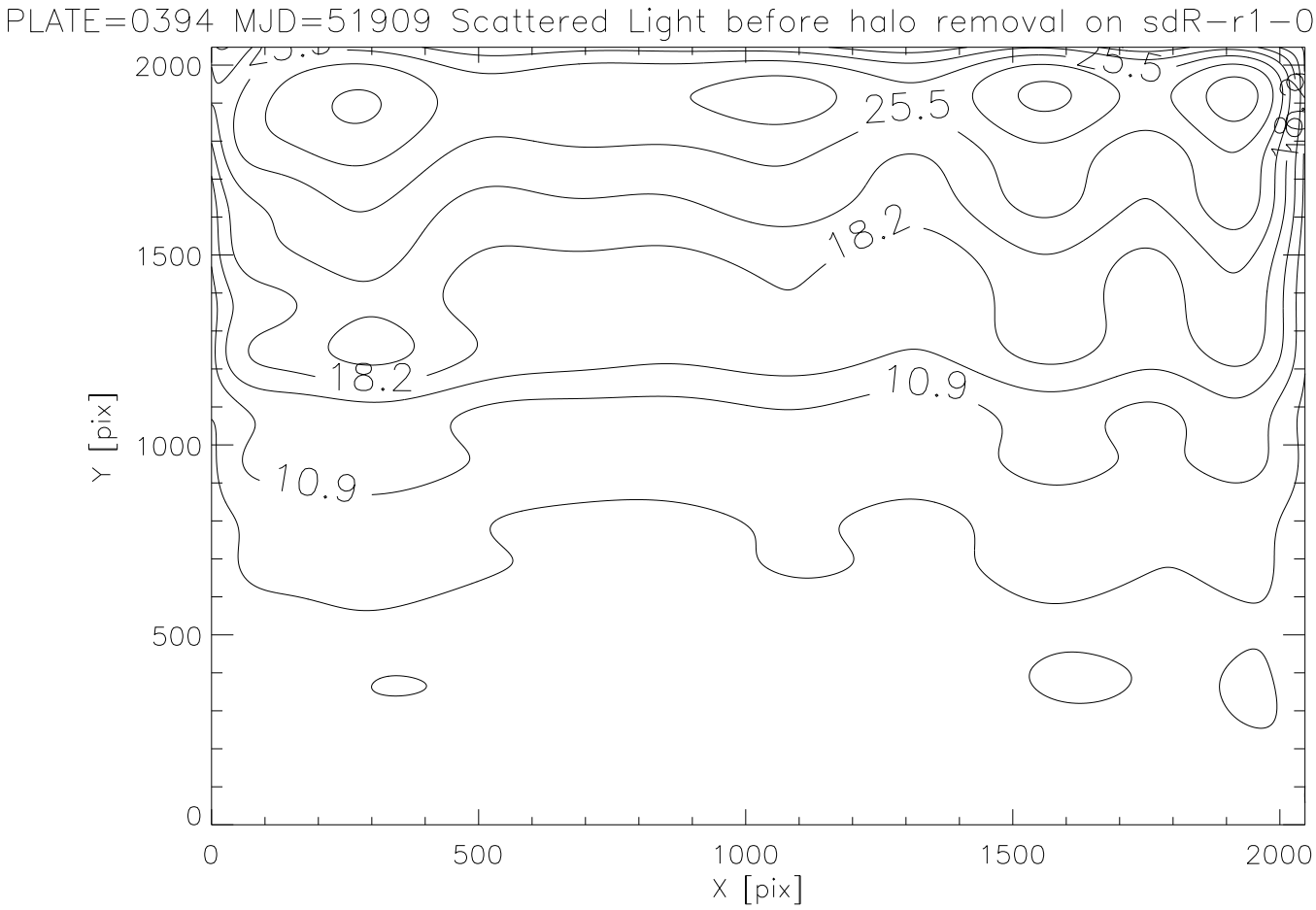

PLATE=0394 MJD=51909 sdR-r1-00007939.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

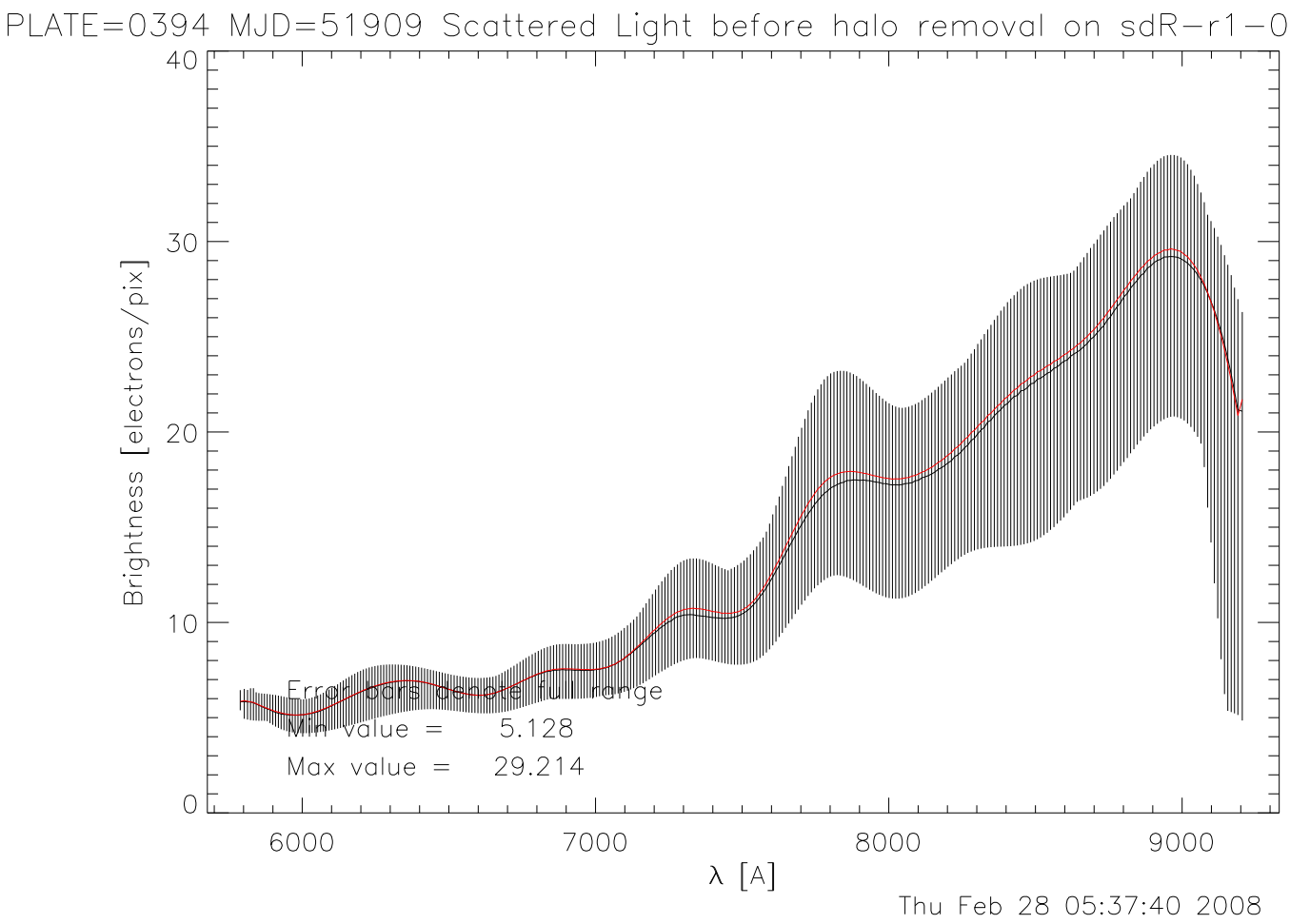

Number of sky fibers = 16
PLATE=0394 MJD=51909 sdR-r1-00007939.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

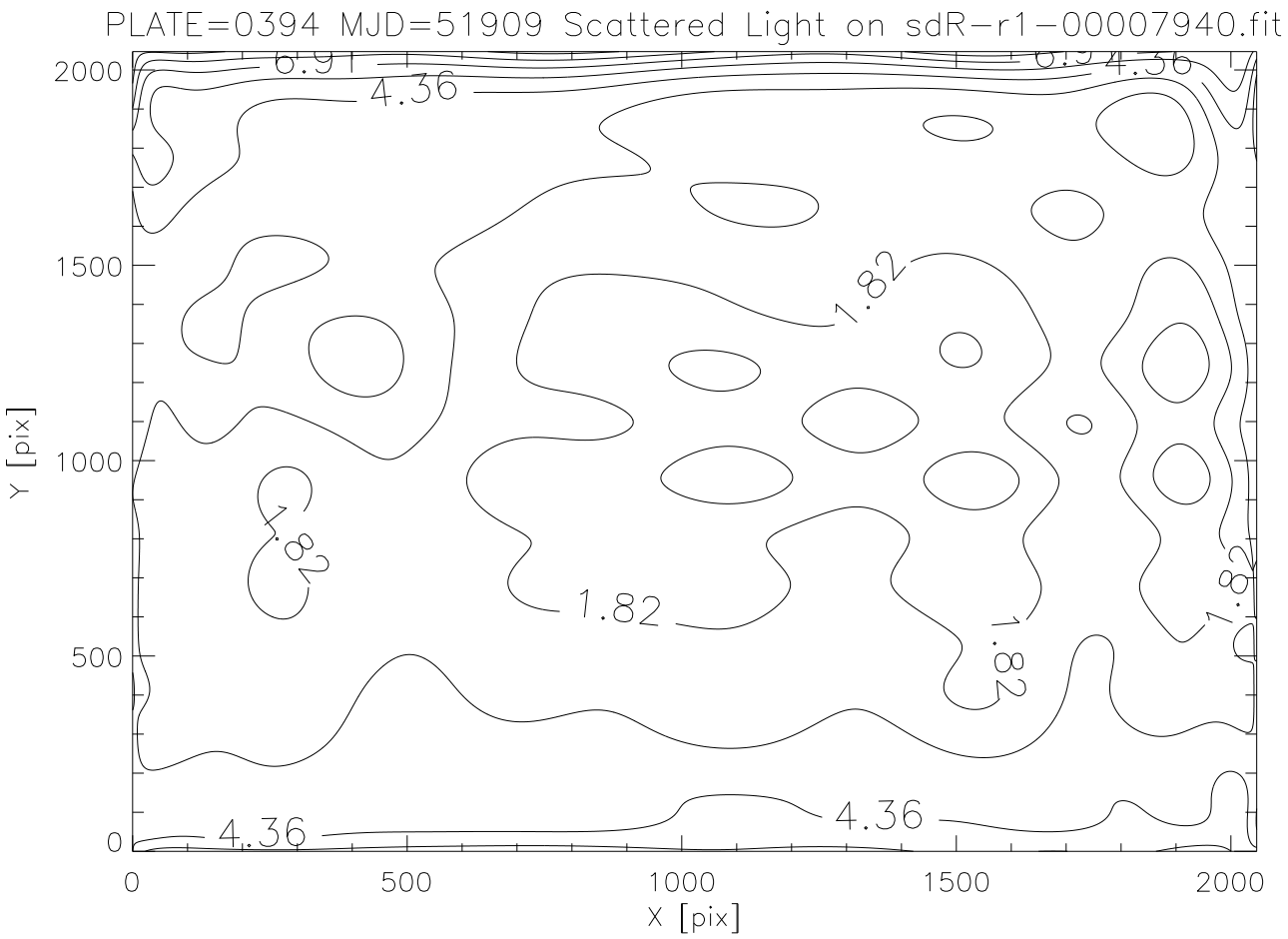

PLATE=0394 MJD=51909 sdR-r1-00007939.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 5.07 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

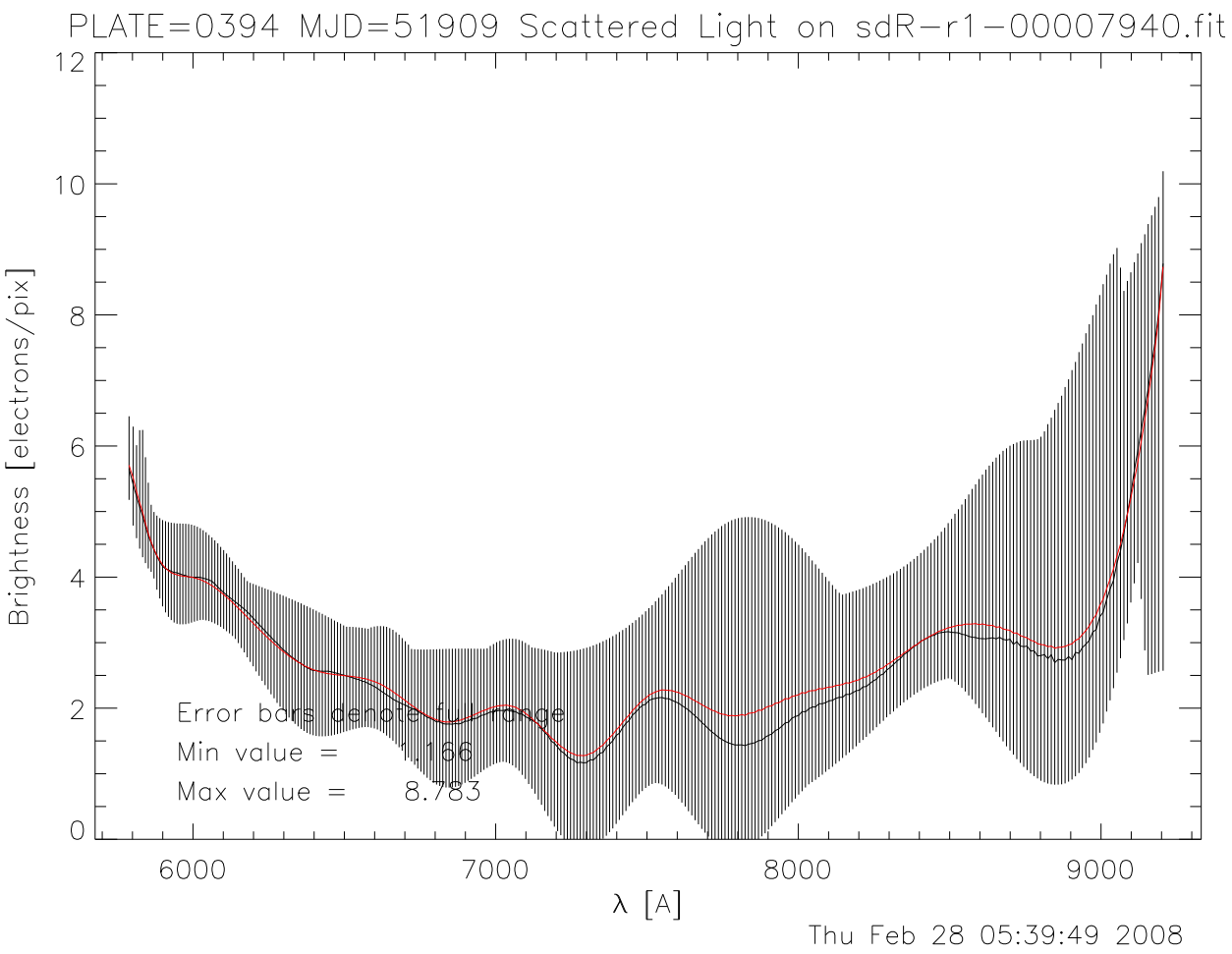

PLATE=0394 MJD=51909 sdR-r1-00007939.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.20 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

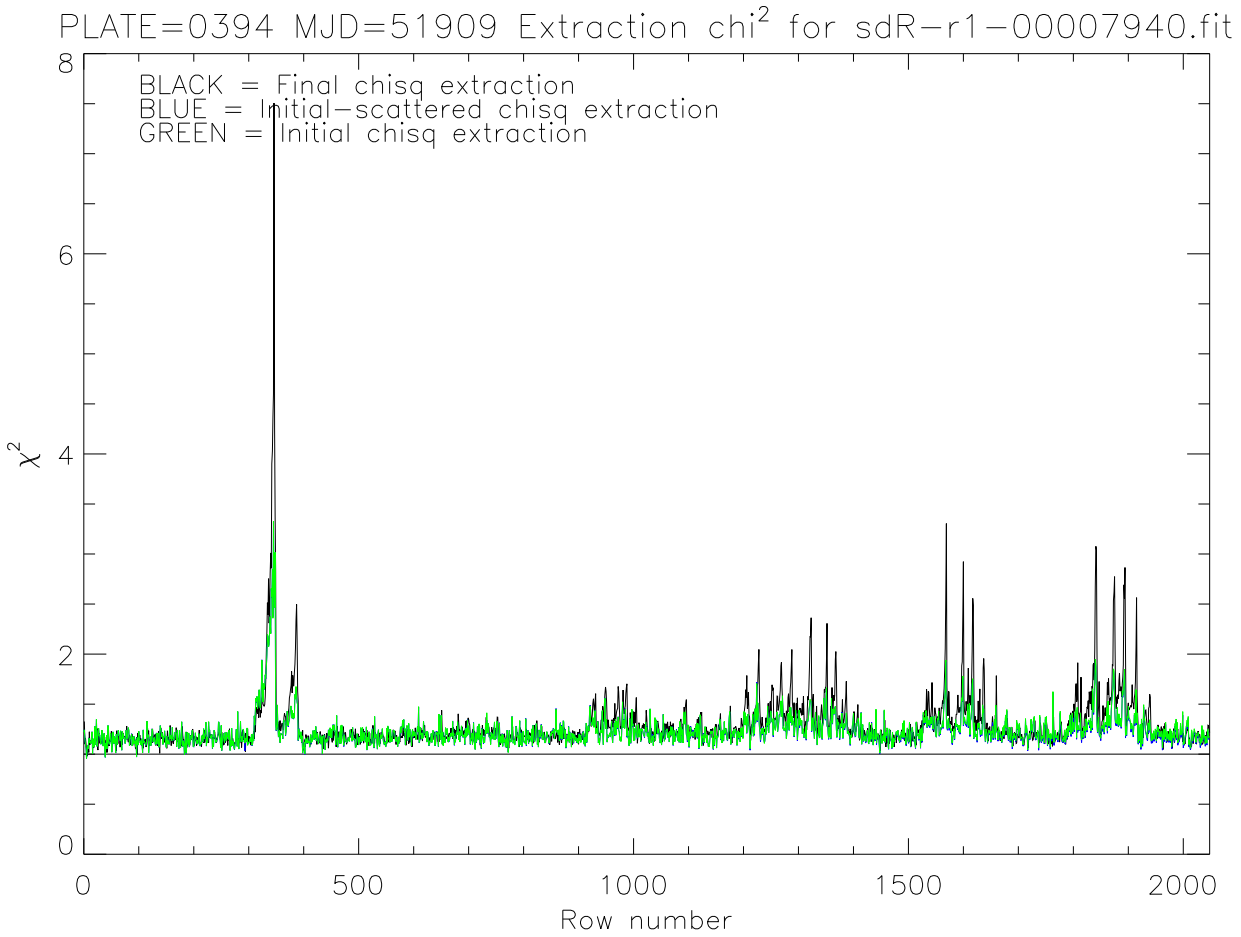

PLATE=0394 MJD=51909 Fiber−Flats for sdR−r1−00007941.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.555
Max value = 1.363
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Thu Feb 28 05:36:59 2008

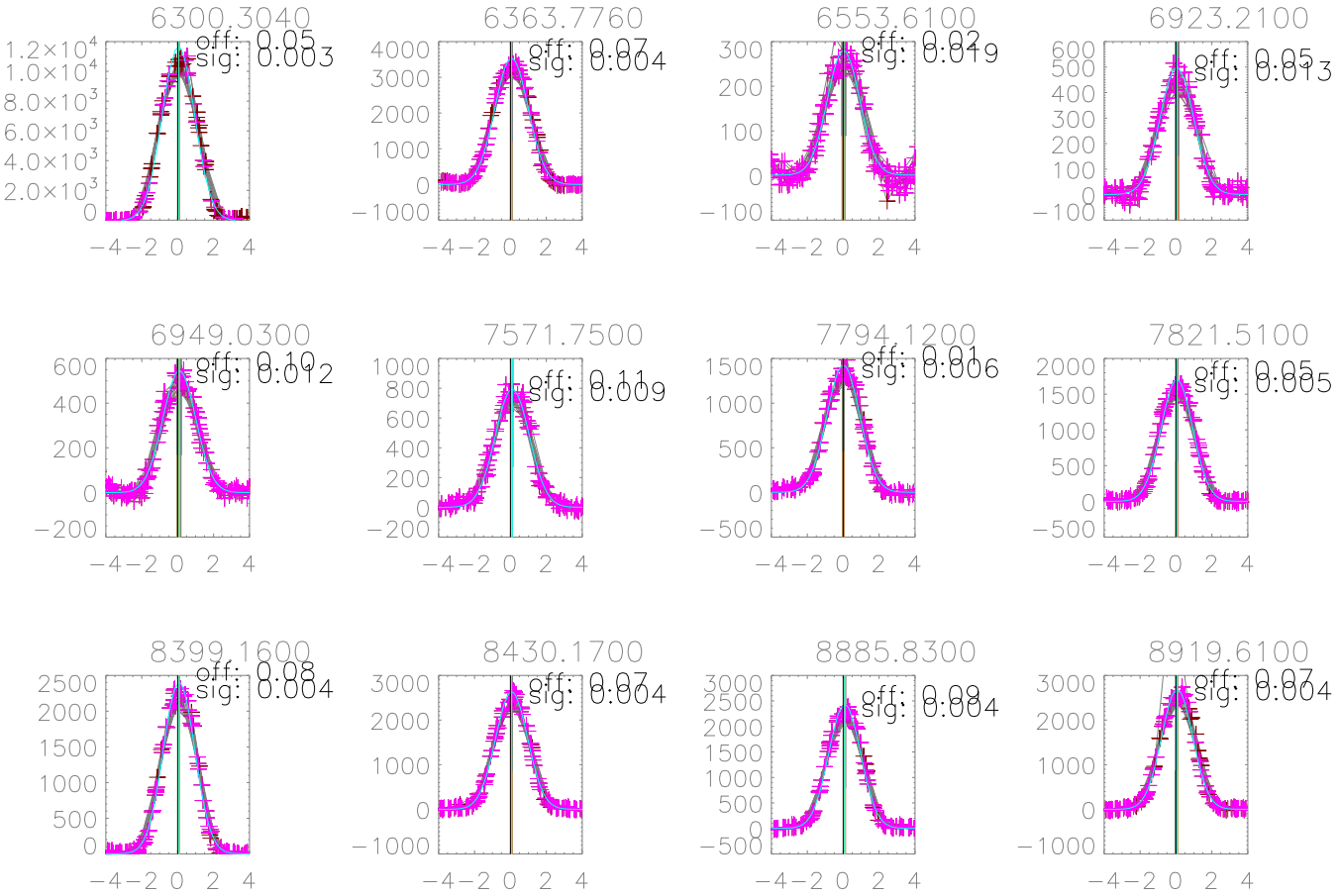

PLATE=0394 MJD=51909 Scattered Light before halo removal on sdR-r1-00007940.fi
25.5
18.2
10.9
Y [pix]
X [pix]
0
500
1000
1500
2000

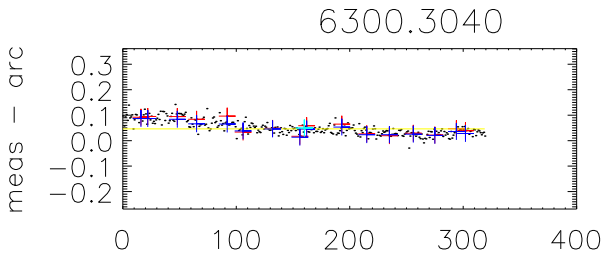

PLATE=0394 MJD=51909 Scattered Light before halo removal on sdR-r1-00007940.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.128
Max value = 29.214
Thu Feb 28 05:37:40 2008

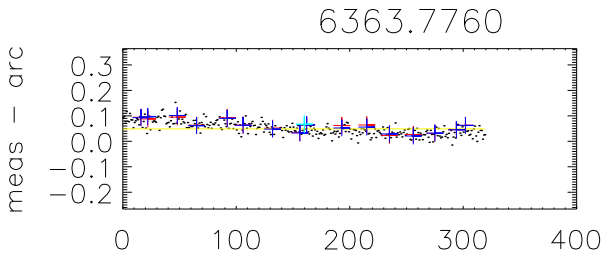

PLATE=0394 MJD=51909 Scattered Light on sdR-r1-00007940.fit
6.91
4.36
1.82
0
Y [pix]
X [pix]
2000
1500
1000
500
0
0
500
1000
1500
2000

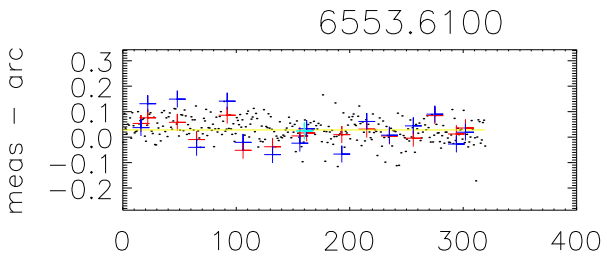

PLATE=0394 MJD=51909 Scattered Light on sdR-r1-00007940.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = -1.166
Max value = 8.783
Thu Feb 28 05:39:49 2008

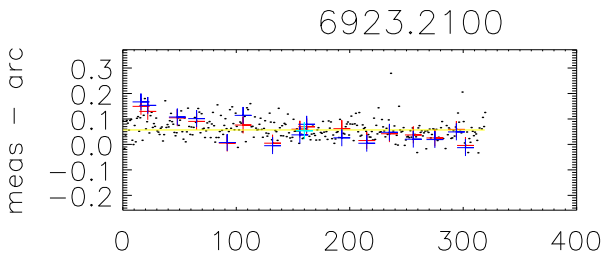

PLATE=0394 MJD=51909 Extraction chi^2 for sdR−r1−00007940.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

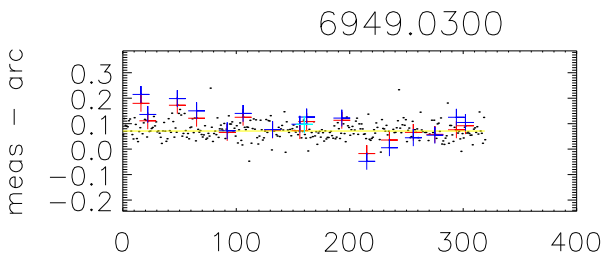

6300.3040
off: 0.05
sig: 0.003
6363.7760
off: 0.07
sig: 0.004
6553.6100
off: 0.02
sig: 0.019
6923.2100
off: 0.05
sig: 0.013
6949.0300
off: 0.10
sig: 0.012
7571.7500
off: 0.11
sig: 0.009
7794.1200
off: 0.01
sig: 0.006
7821.5100
off: 0.05
sig: 0.005
8399.1600
off: 0.08
sig: 0.004
8430.1700
off: 0.07
sig: 0.004
8885.8300
off: 0.09
sig: 0.004
8919.6100
off: 0.07
sig: 0.004

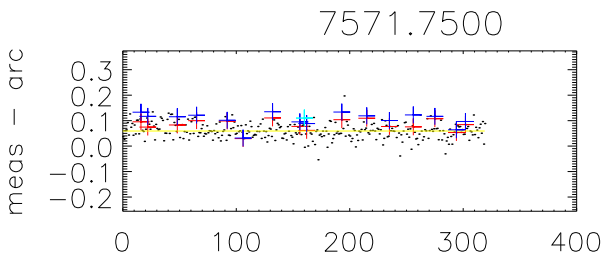

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

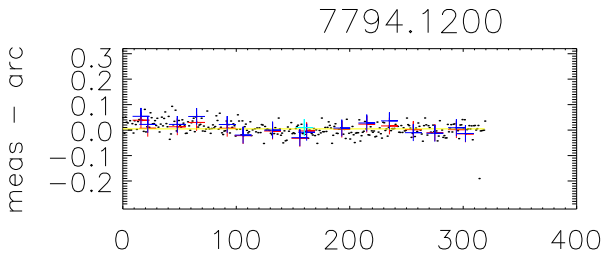

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

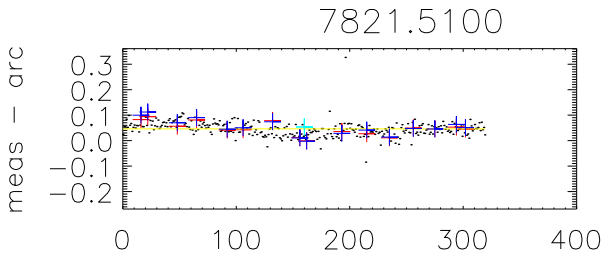

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

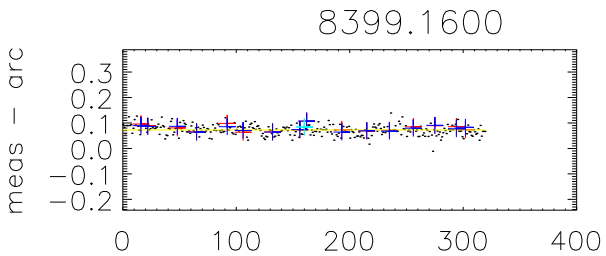

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

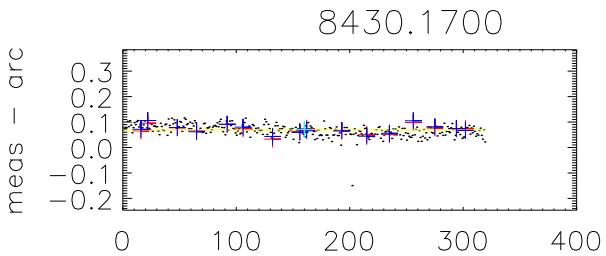

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

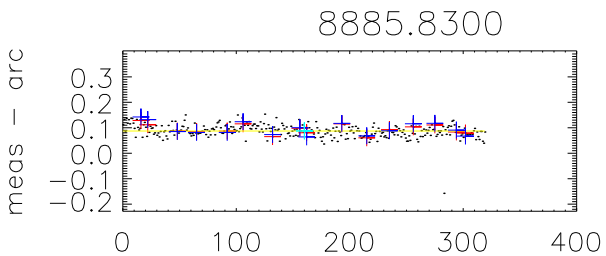

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

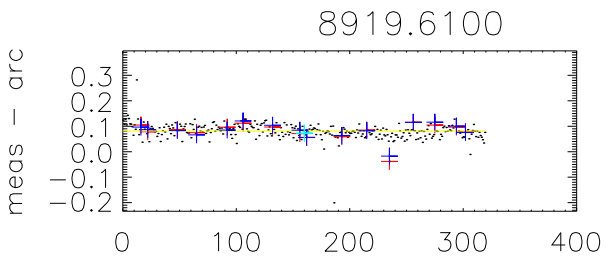

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

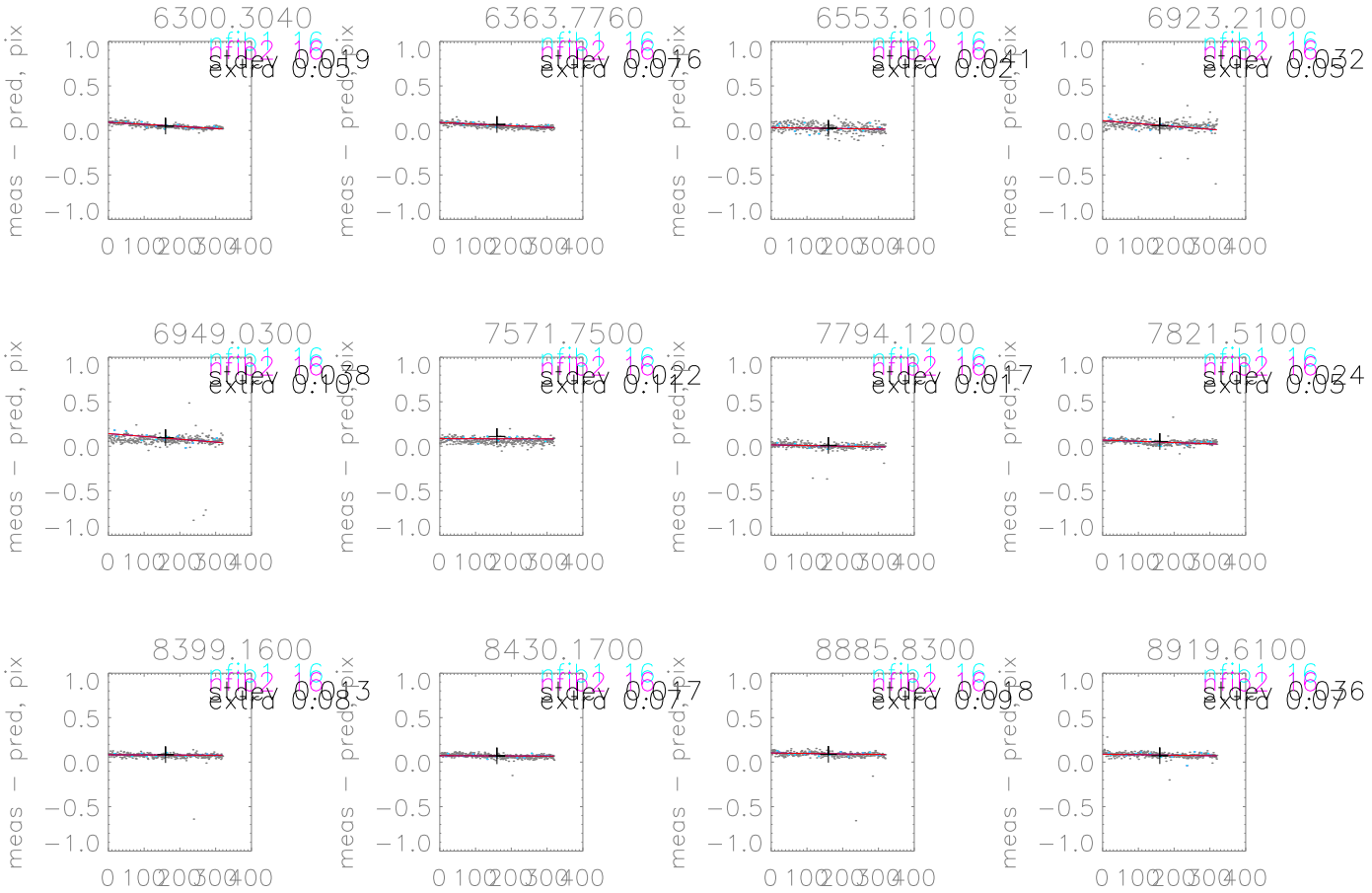

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

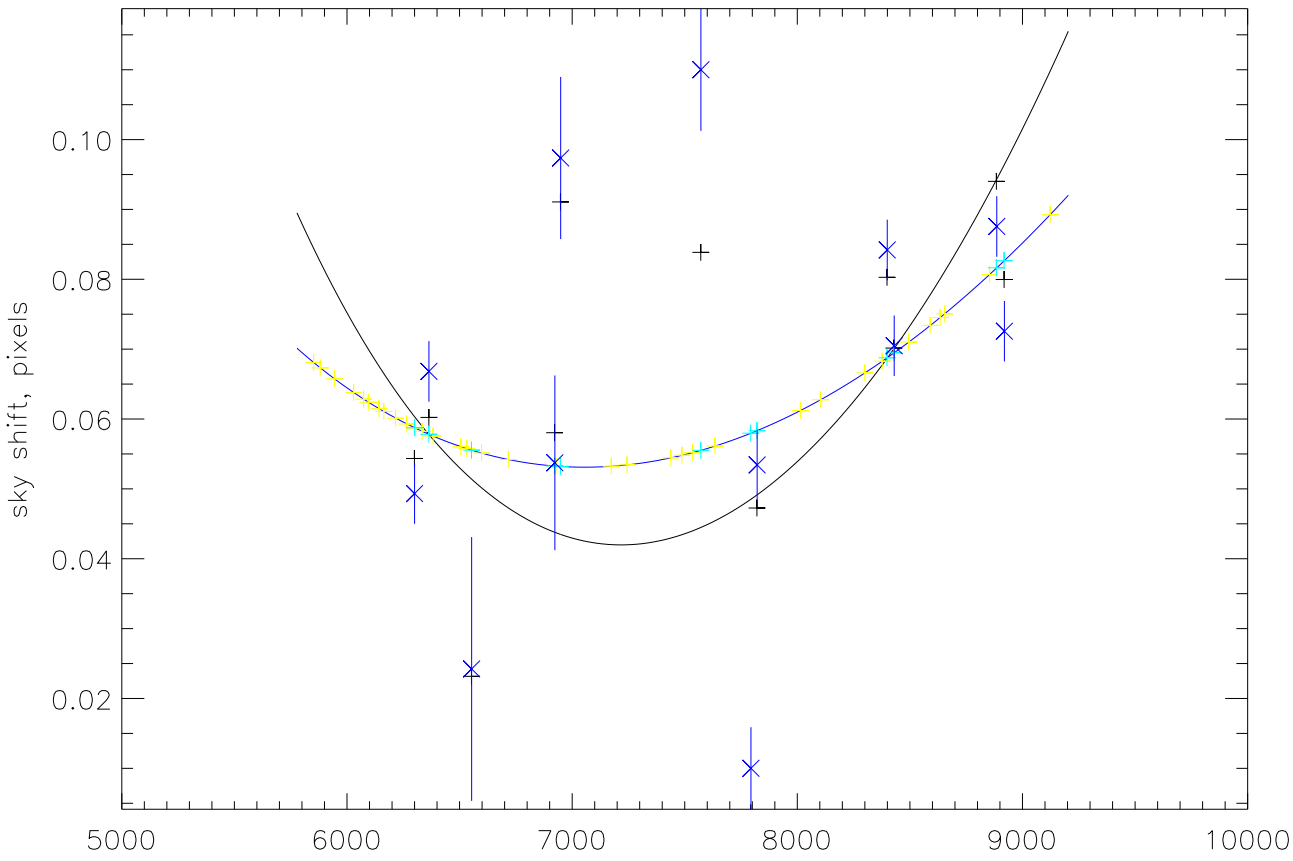

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

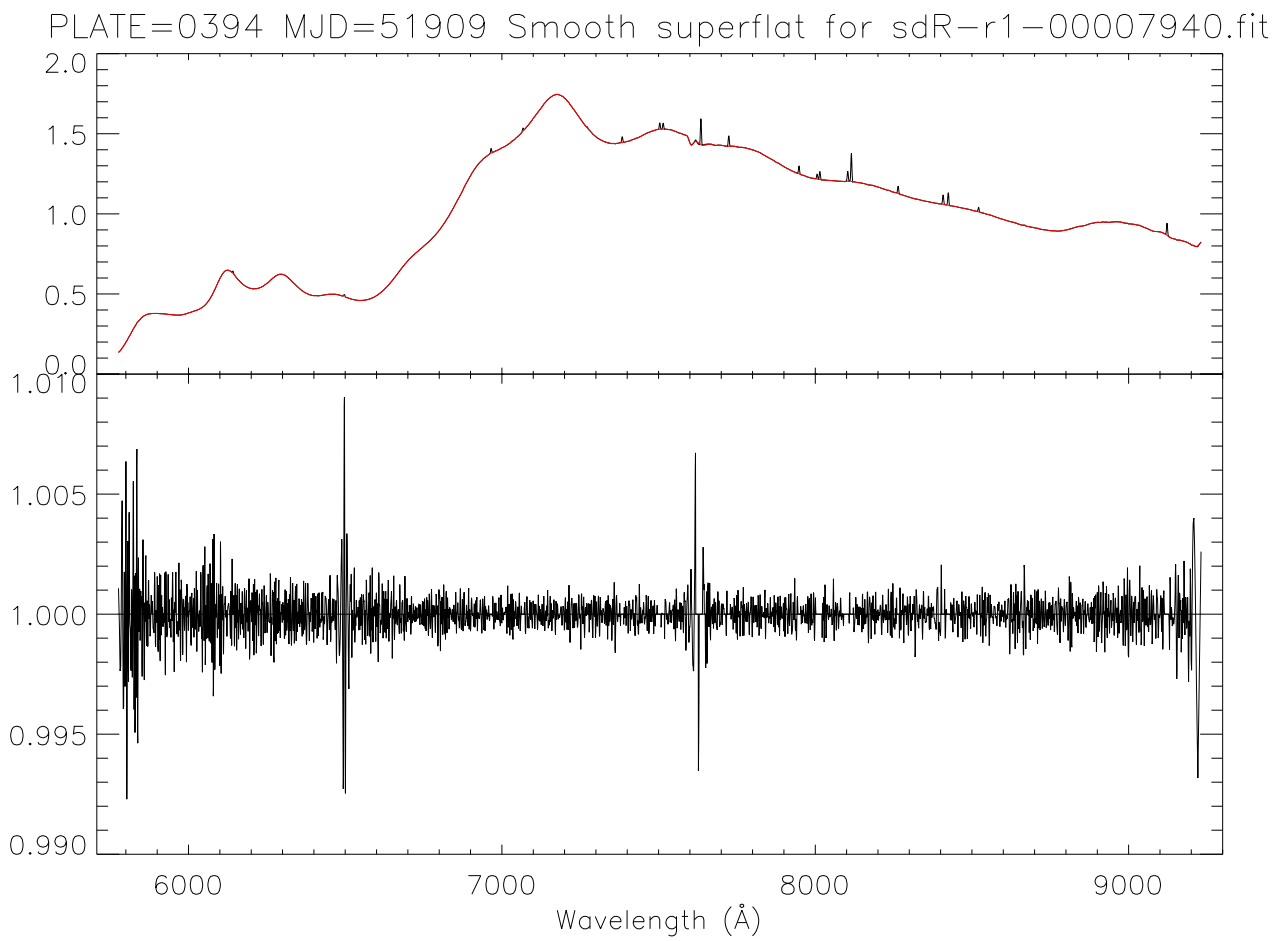

8885.8300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

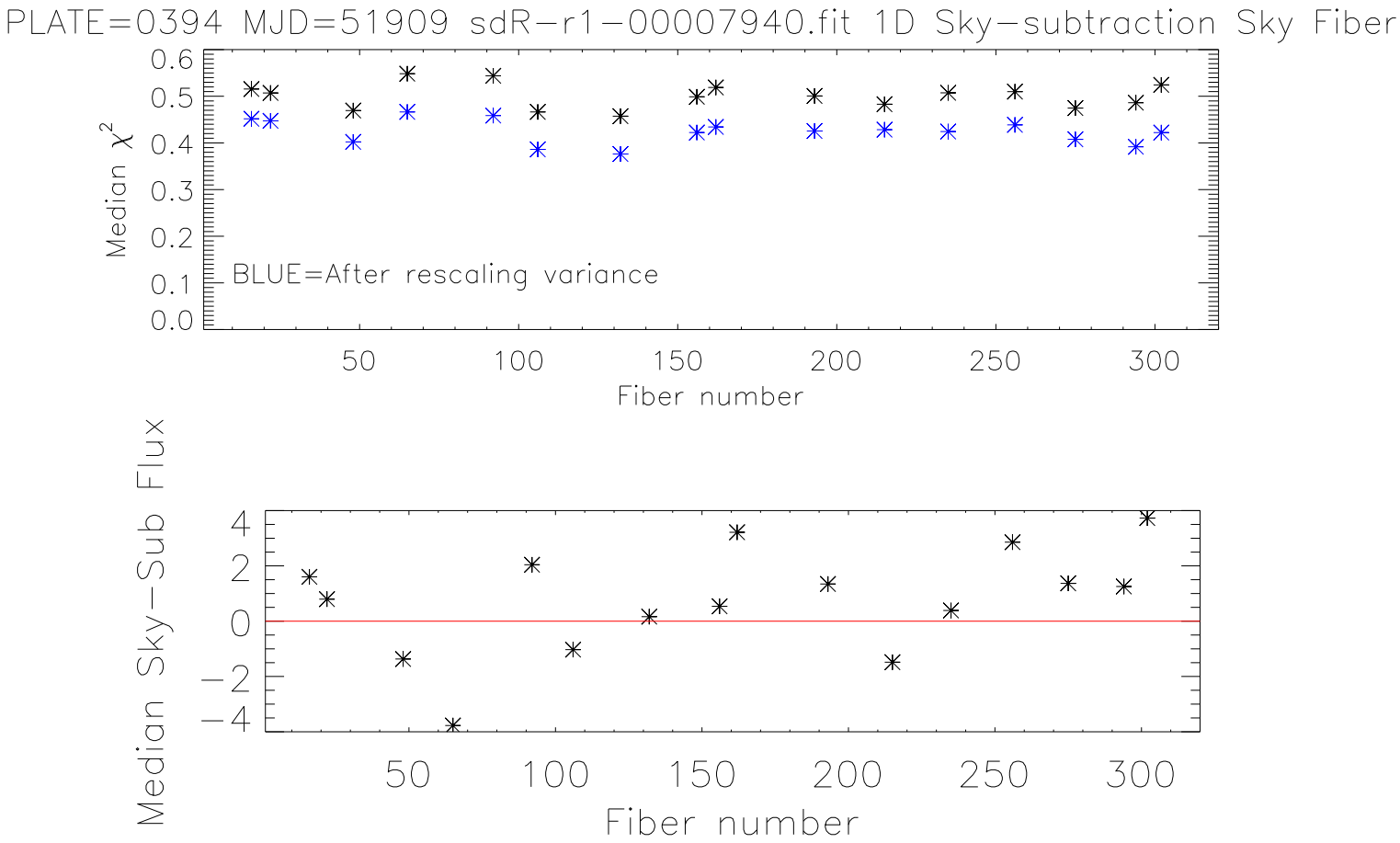

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

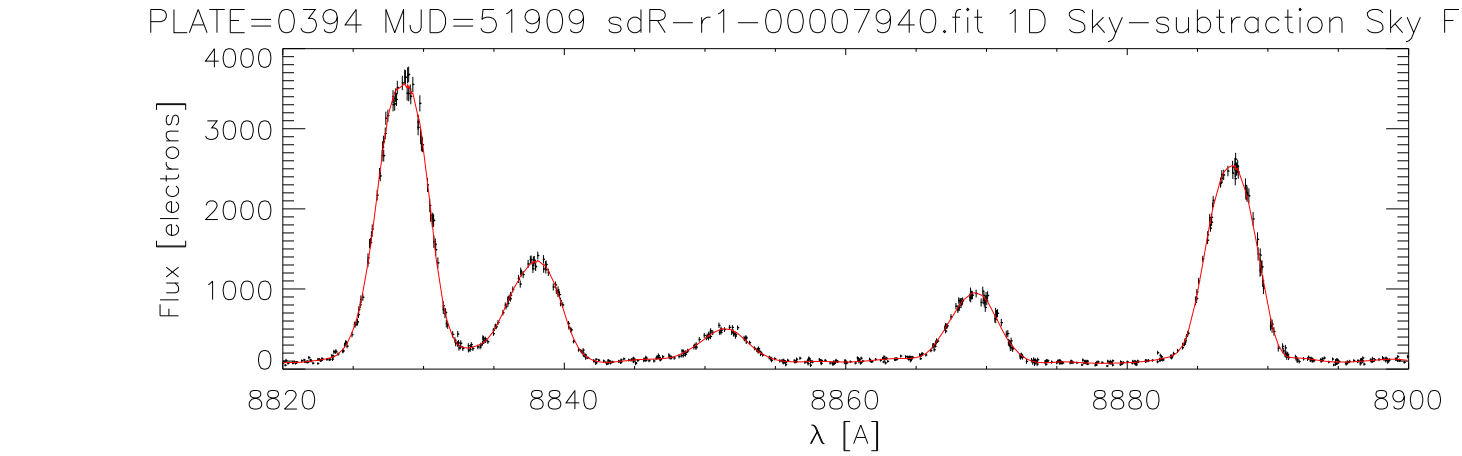

6300.3040
stdev 0.059
extra 0.05
6363.7760
stdev 0.076
extra 0.07
6553.6100
stdev 0.041
extra 0.02
6923.2100
stdev 0.032
extra 0.05
6949.0300
stdev 0.038
extra 0.10
7571.7500
stdev 0.022
extra 0.11
7794.1200
stdev 0.017
extra 0.01
7821.5100
stdev 0.024
extra 0.05
8399.1600
stdev 0.043
extra 0.08
8430.1700
stdev 0.077
extra 0.07
8885.8300
stdev 0.048
extra 0.09
8919.6100
stdev 0.036
extra 0.07
meas − pred, pix
mfhd2 16

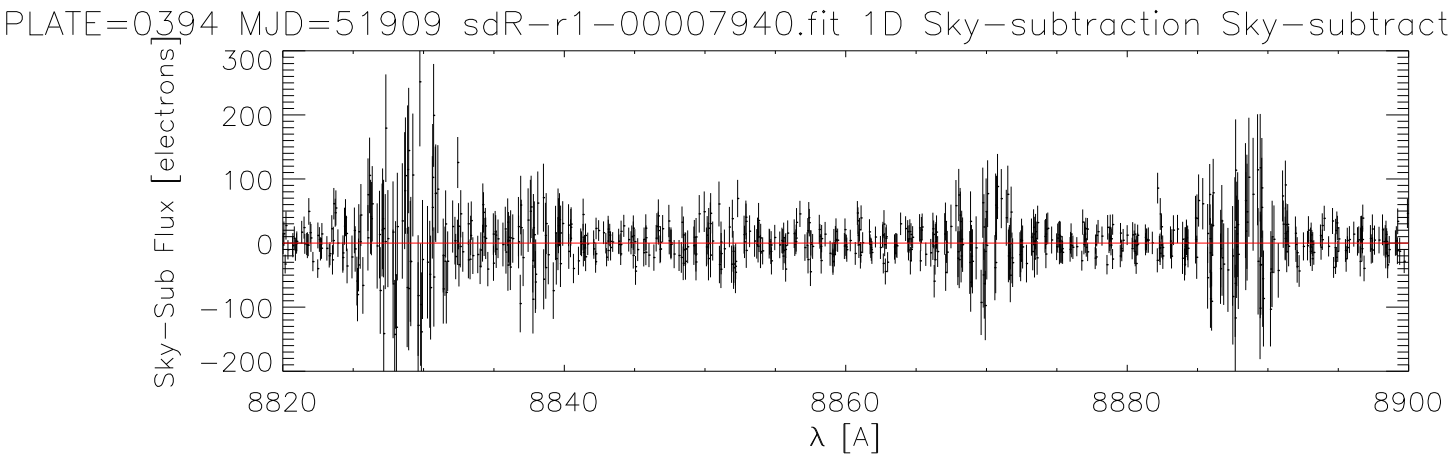

sky shift, pixels
0.10
0.08
0.06
0.04
0.02
5000
6000
7000
8000
9000
10000

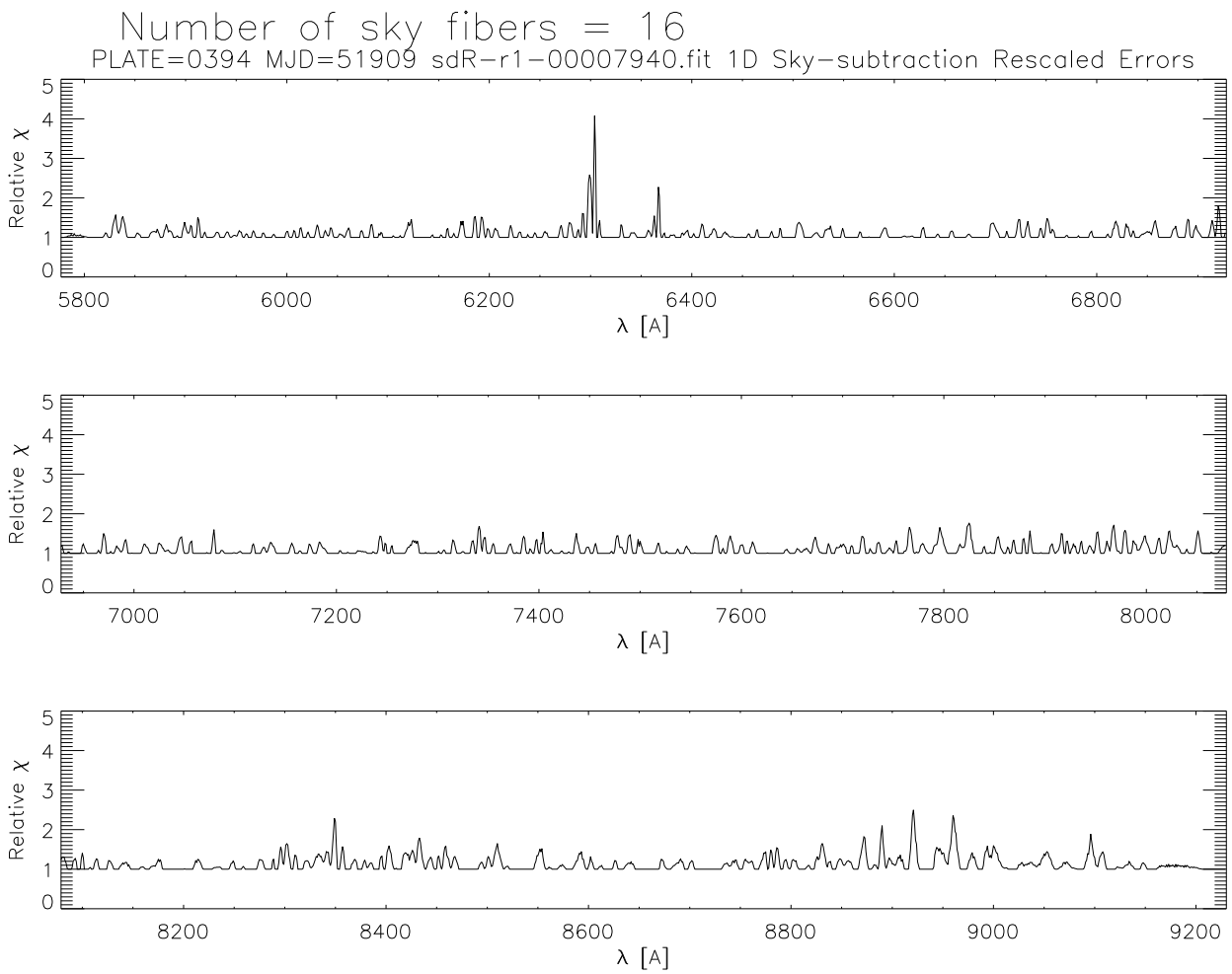
es= 0.0000

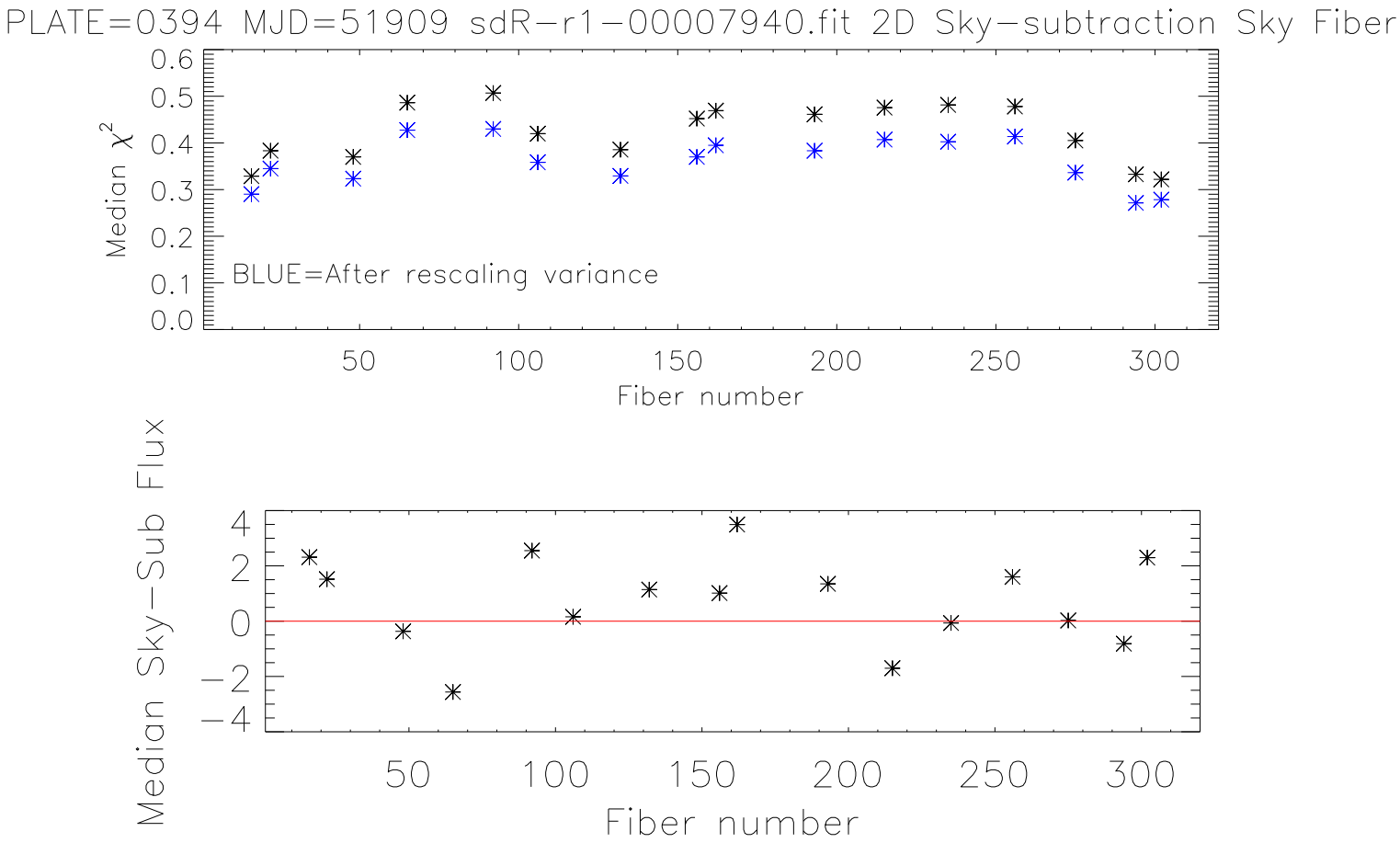

PLATE=0394 MJD=51909 Smooth superflat for sdR-r1-00007940.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

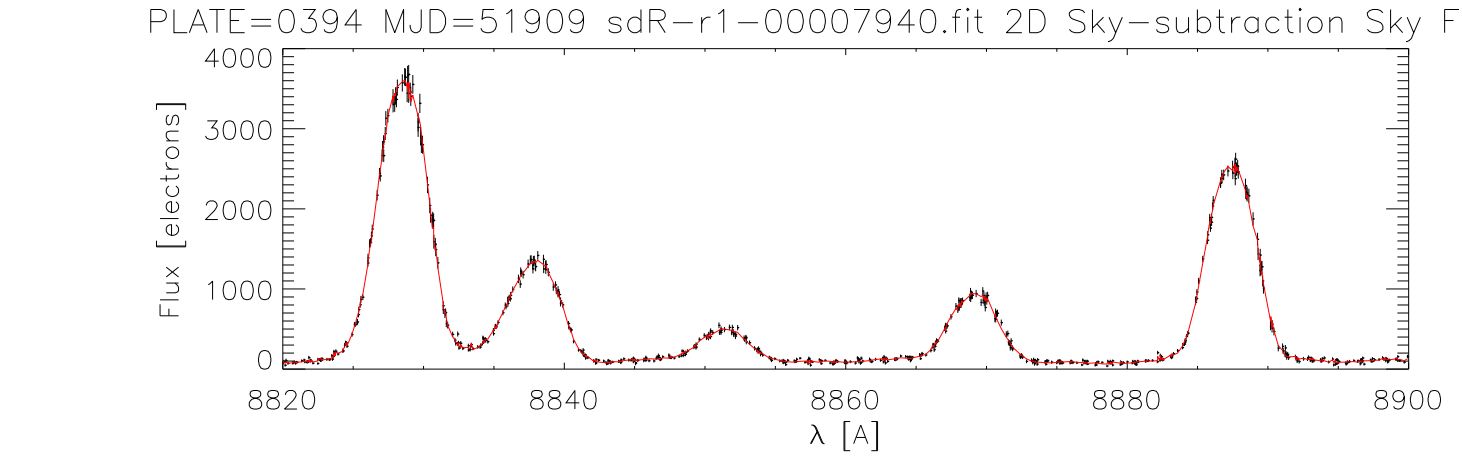

PLATE=0394 MJD=51909 sdR-r1-00007940.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

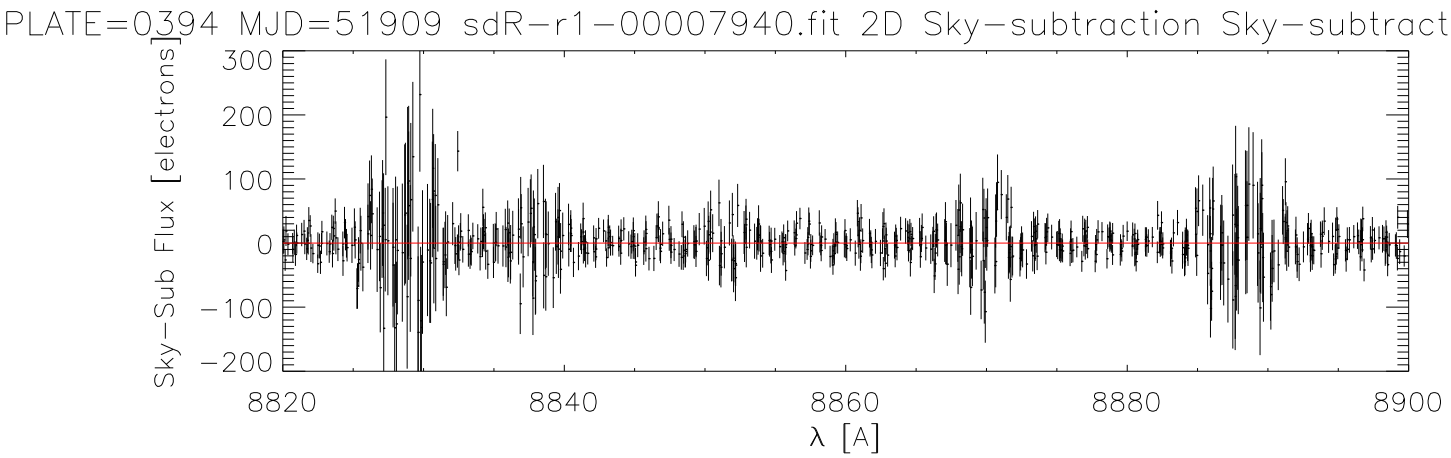

PLATE=0394 MJD=51909 sdR-r1-00007940.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

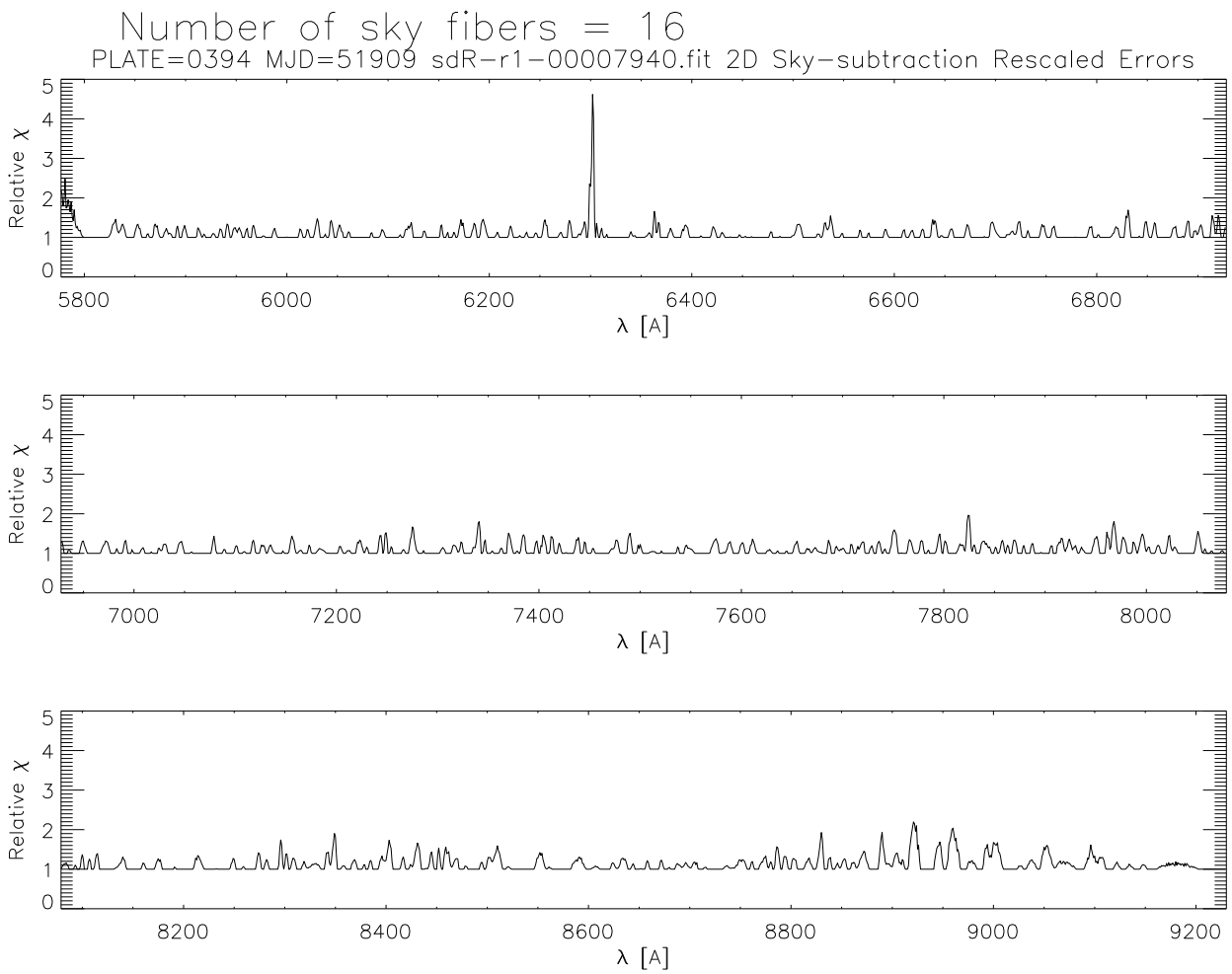

PLATE=0394 MJD=51909 sdR-r1-00007940.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

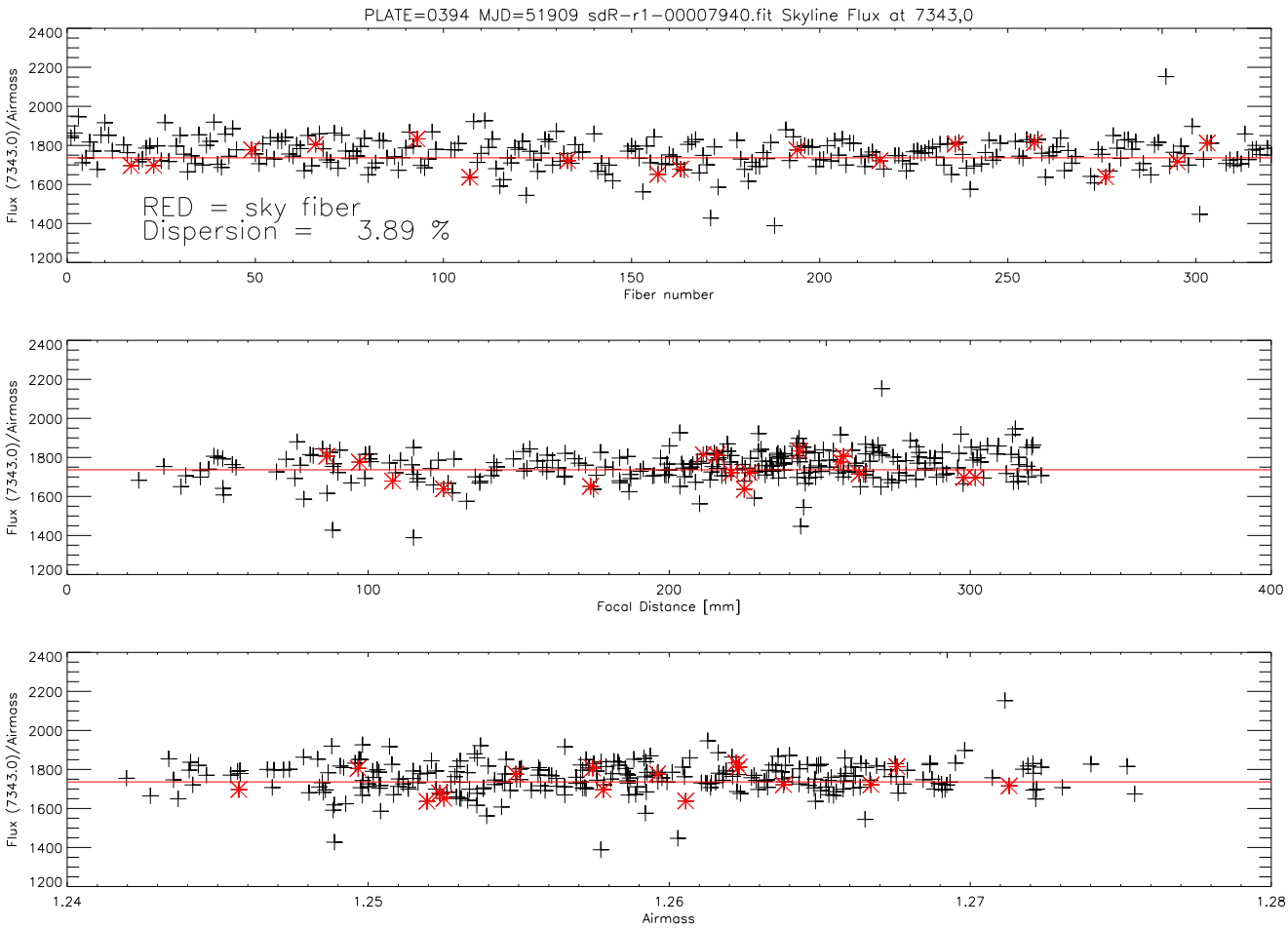

Number of sky fibers = 16
PLATE=0394 MJD=51909 sdR-r1-00007940.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

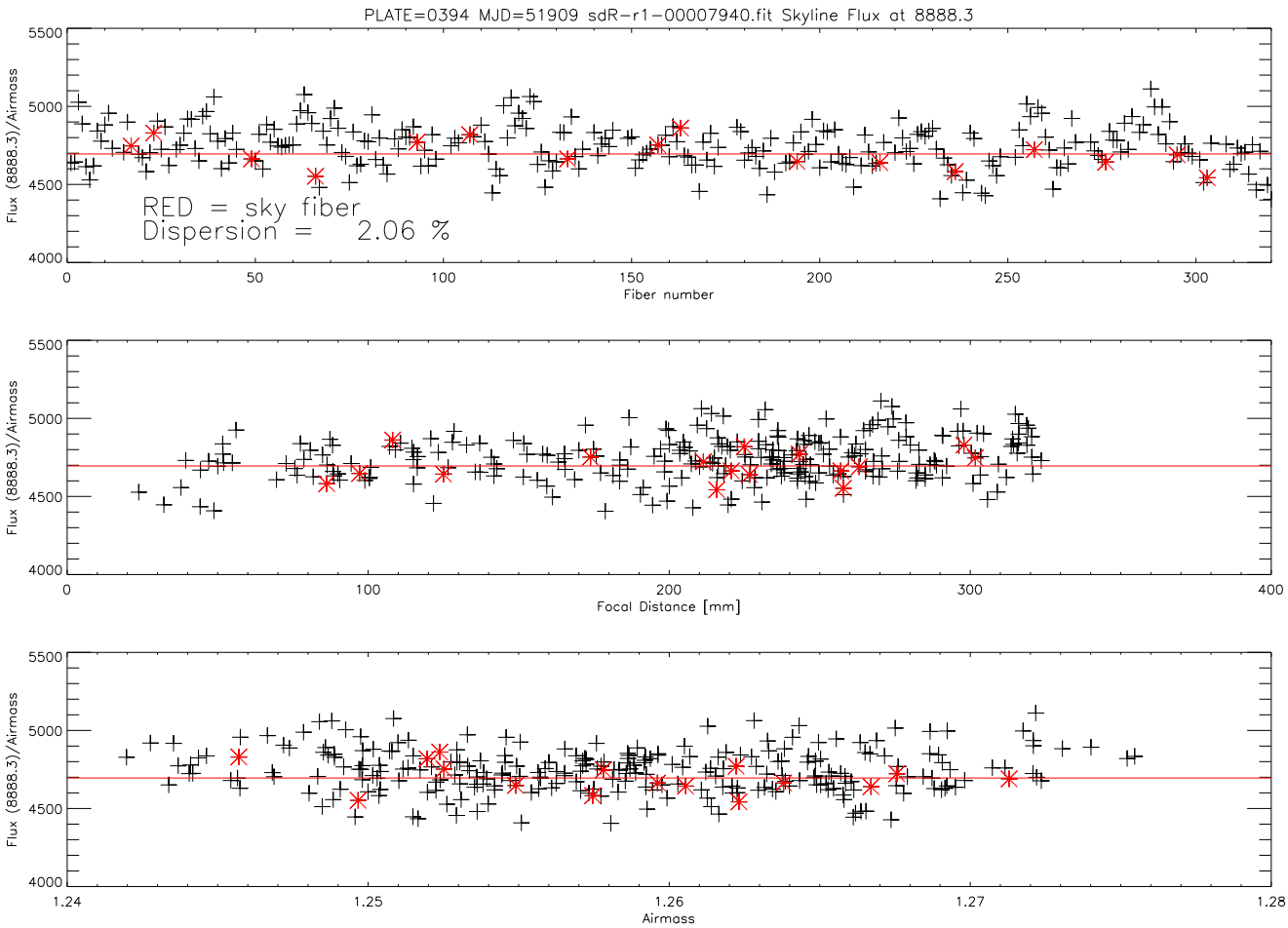

PLATE=0394 MJD=51909 sdR-r1-00007940.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
50
100
150
200
250
300
Fiber number

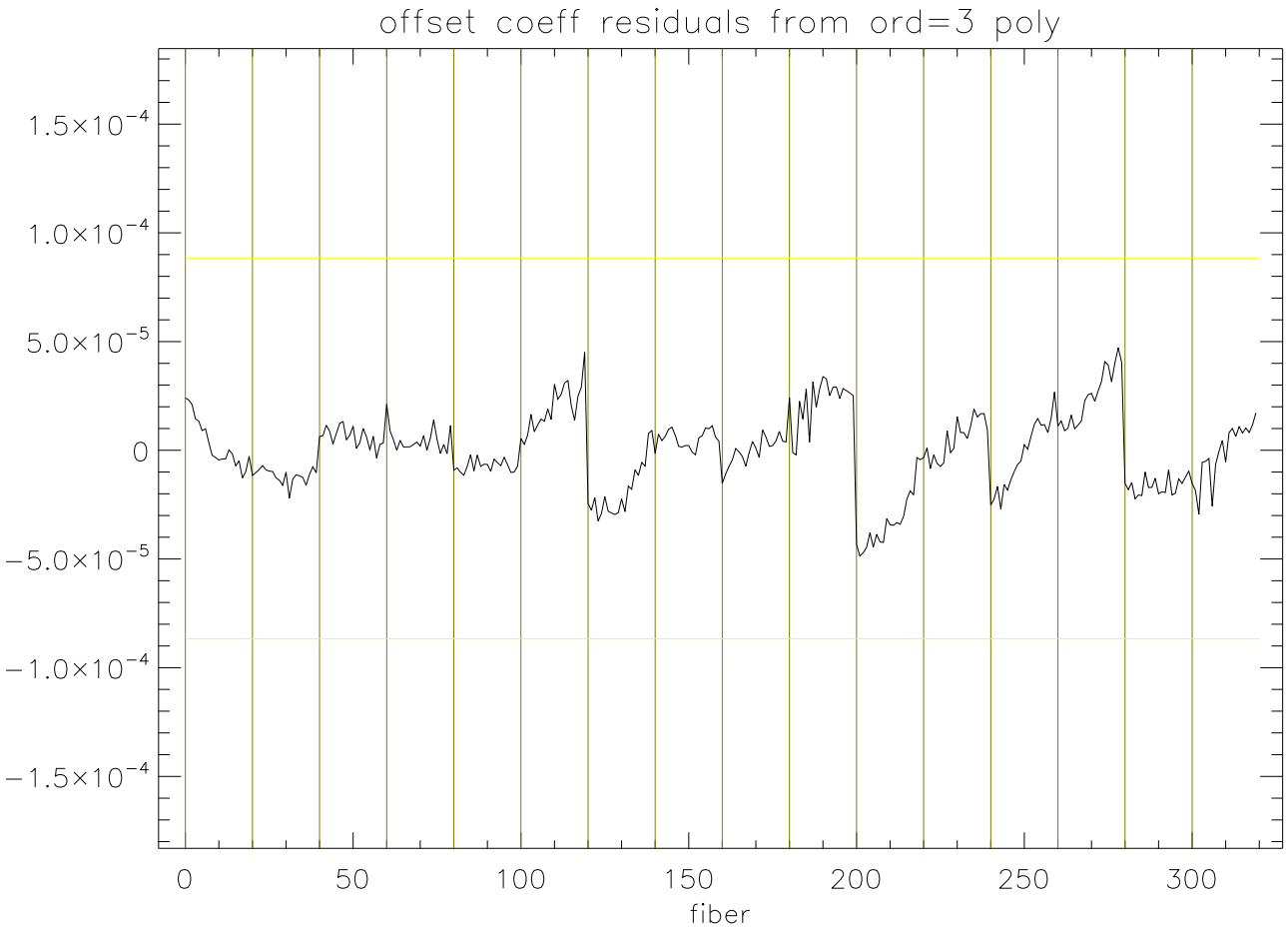

PLATE=0394 MJD=51909 sdR-r1-00007940.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

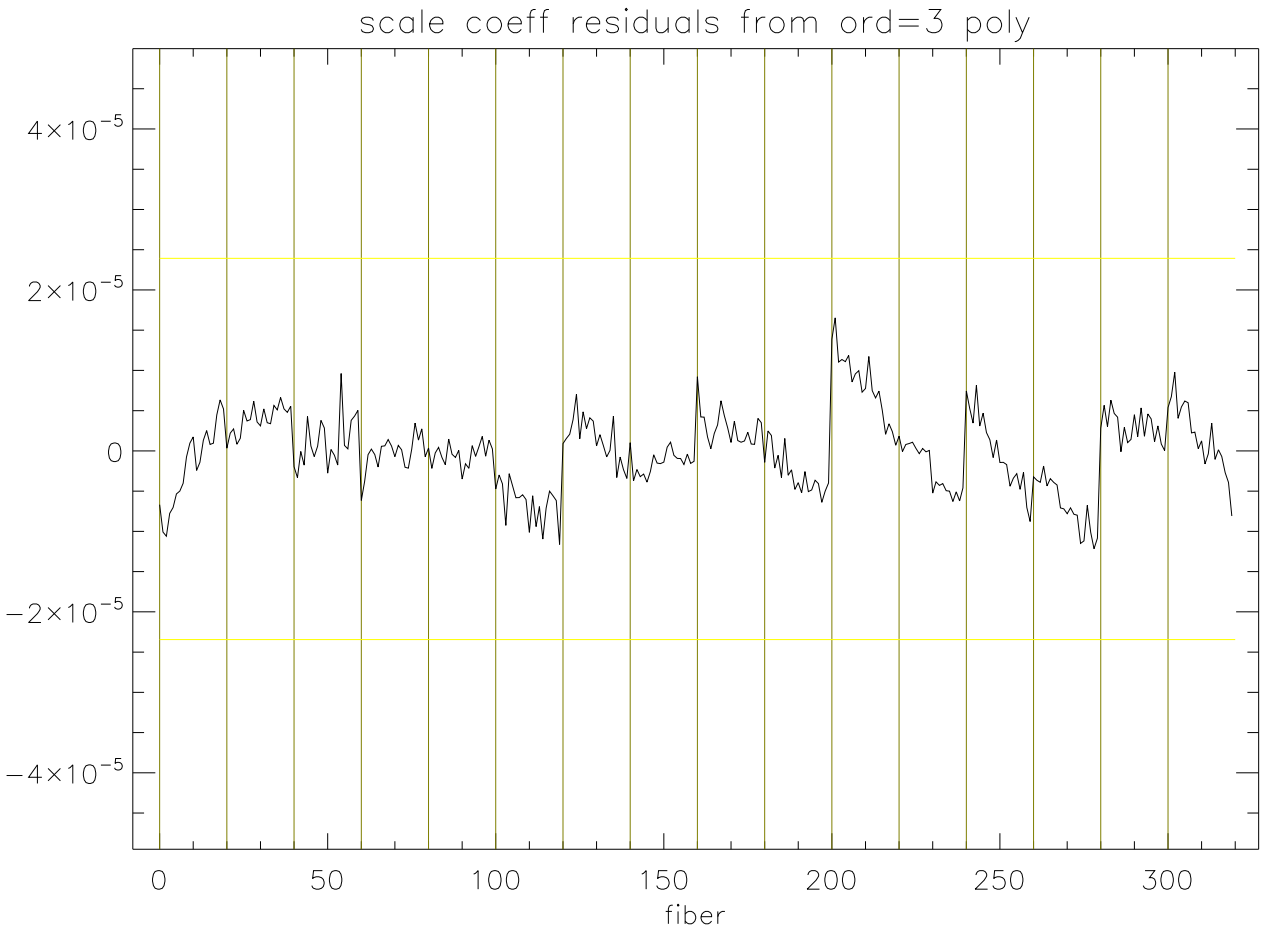

PLATE=0394 MJD=51909 sdR-r1-00007940.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

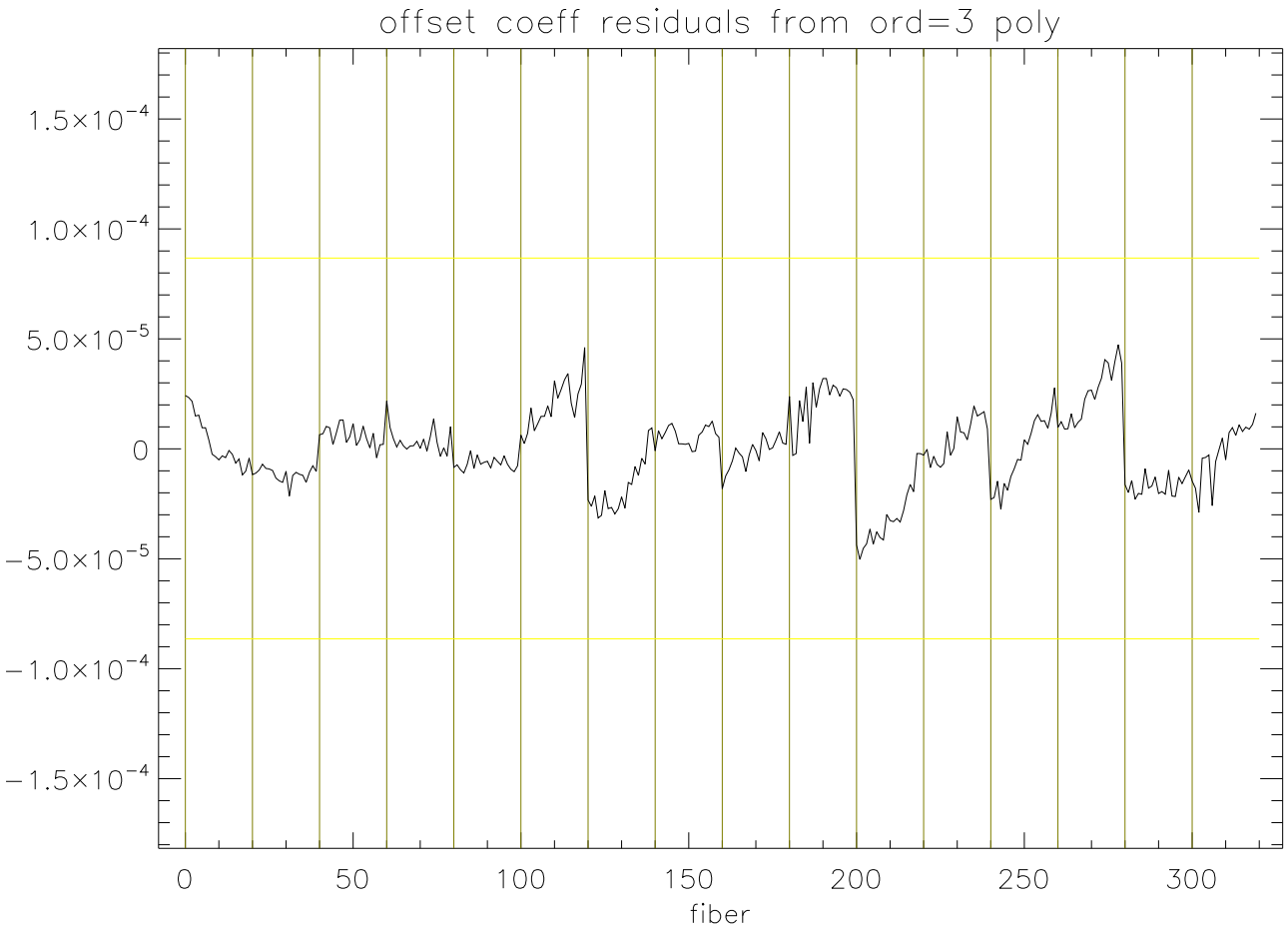

Number of sky fibers = 16
PLATE=0394 MJD=51909 sdR-r1-00007940.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

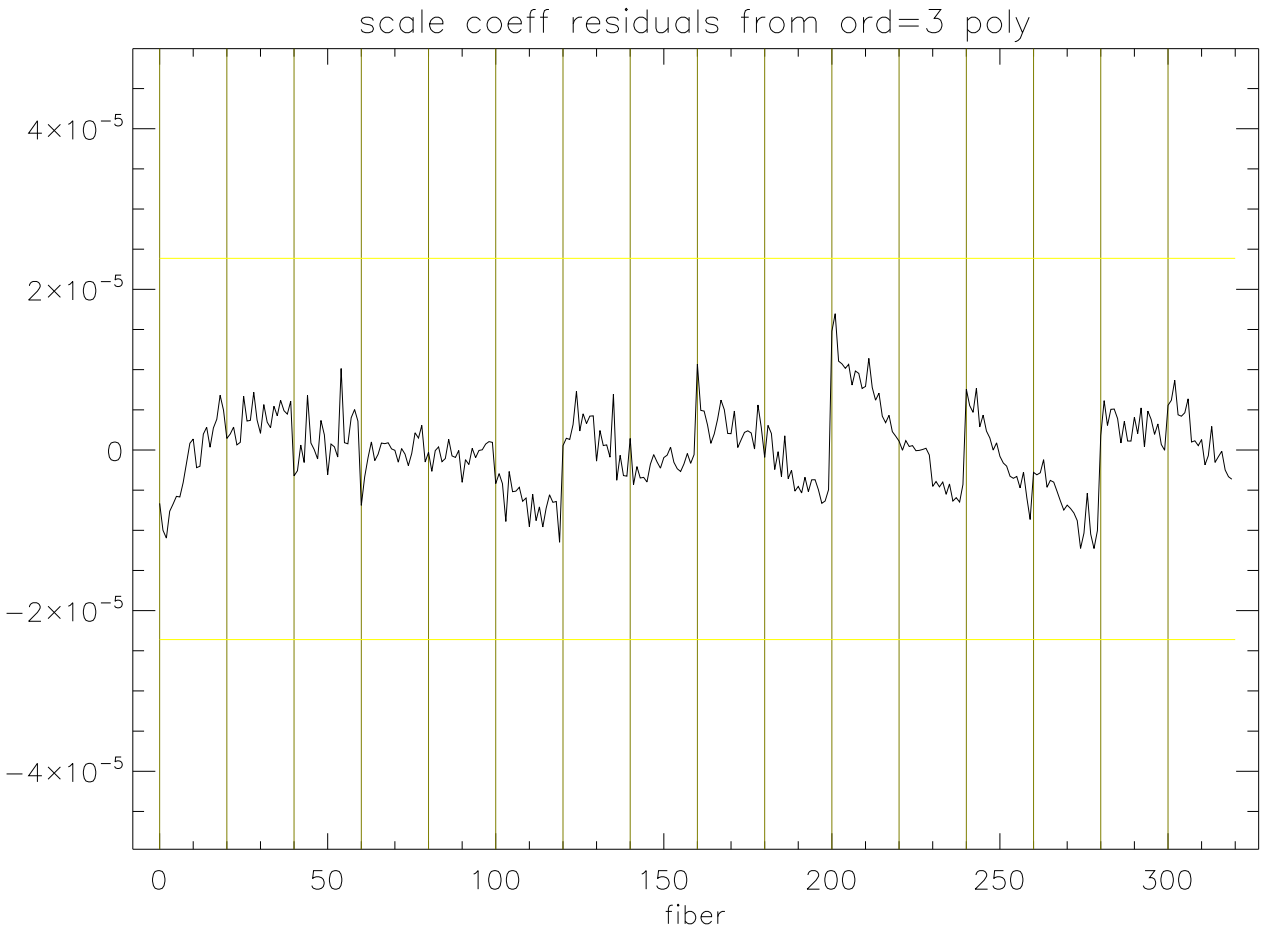

PLATE=0394 MJD=51909 sdR-r1-00007940.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.89 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

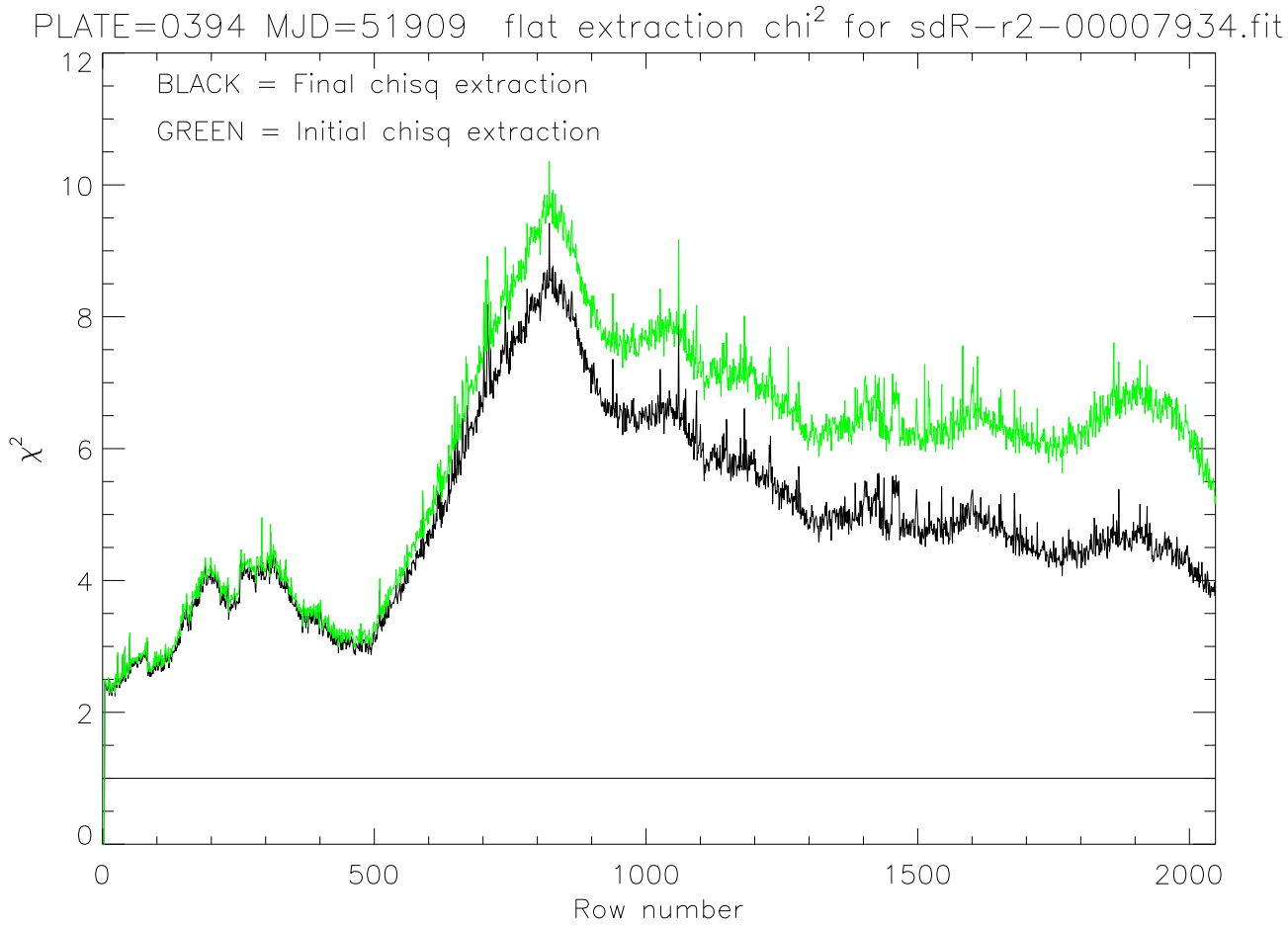

PLATE=0394 MJD=51909 sdR-r1-00007940.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.06 %
Fiber number
Focal Distance [mm]
Airmass

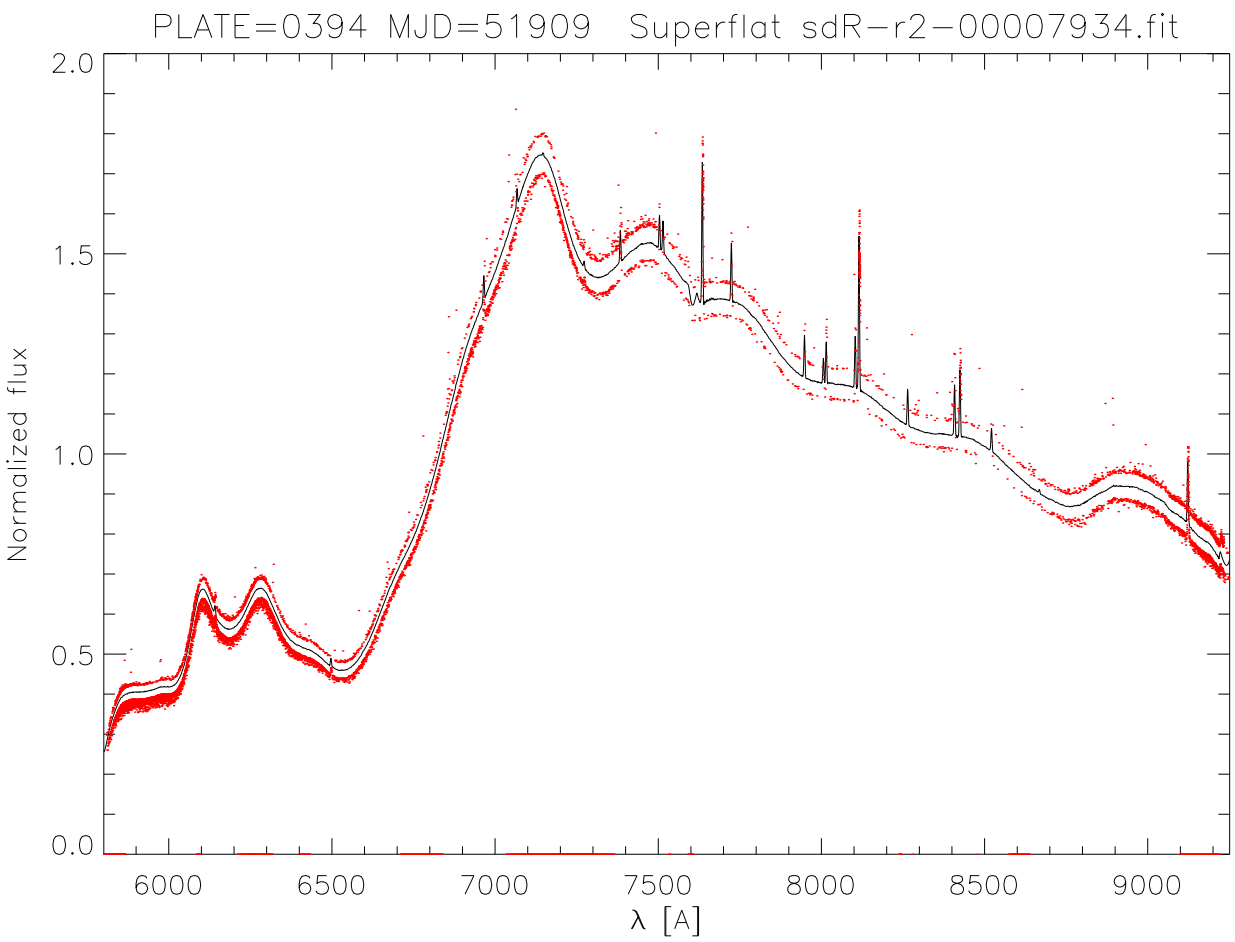

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

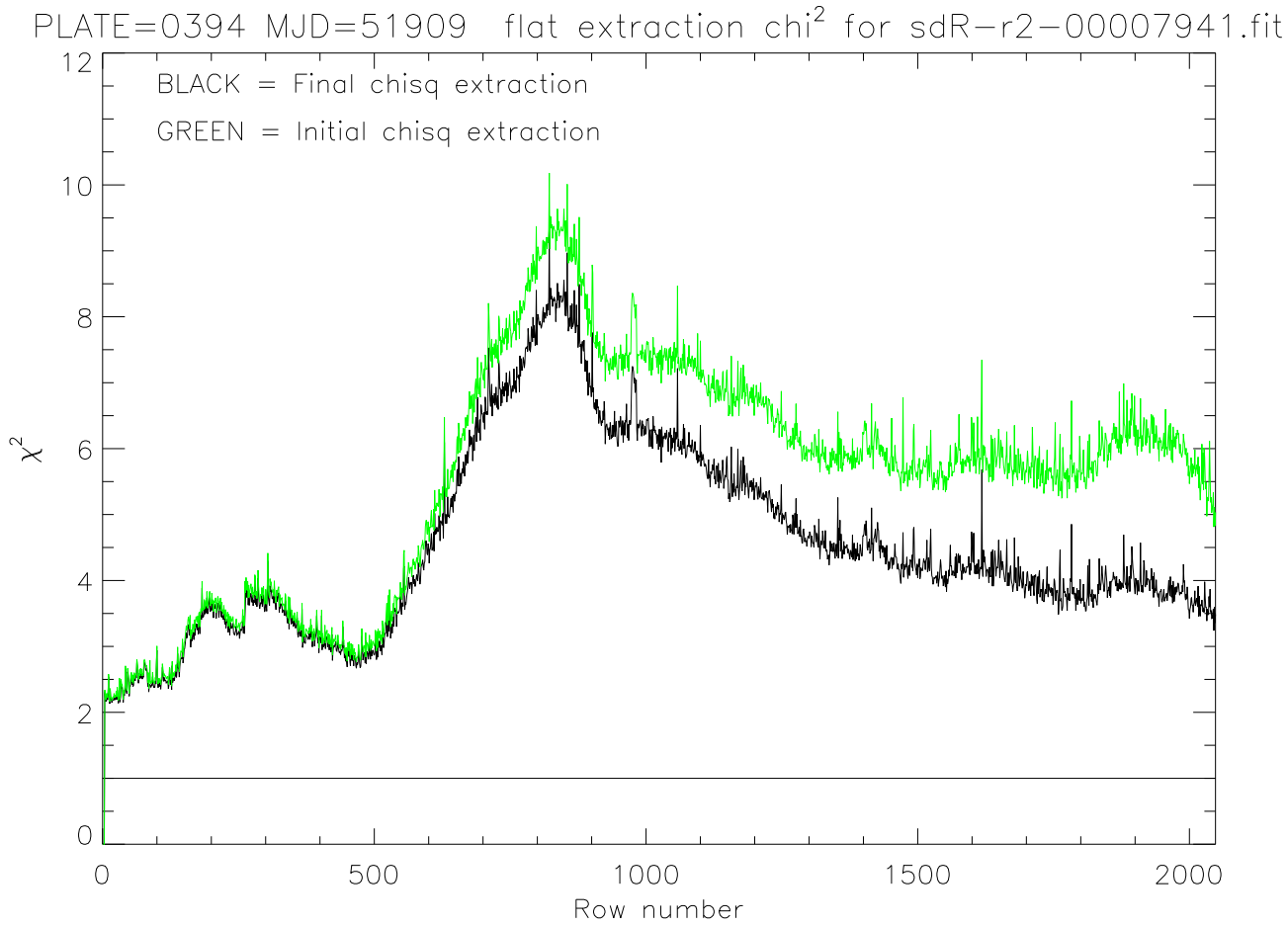

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

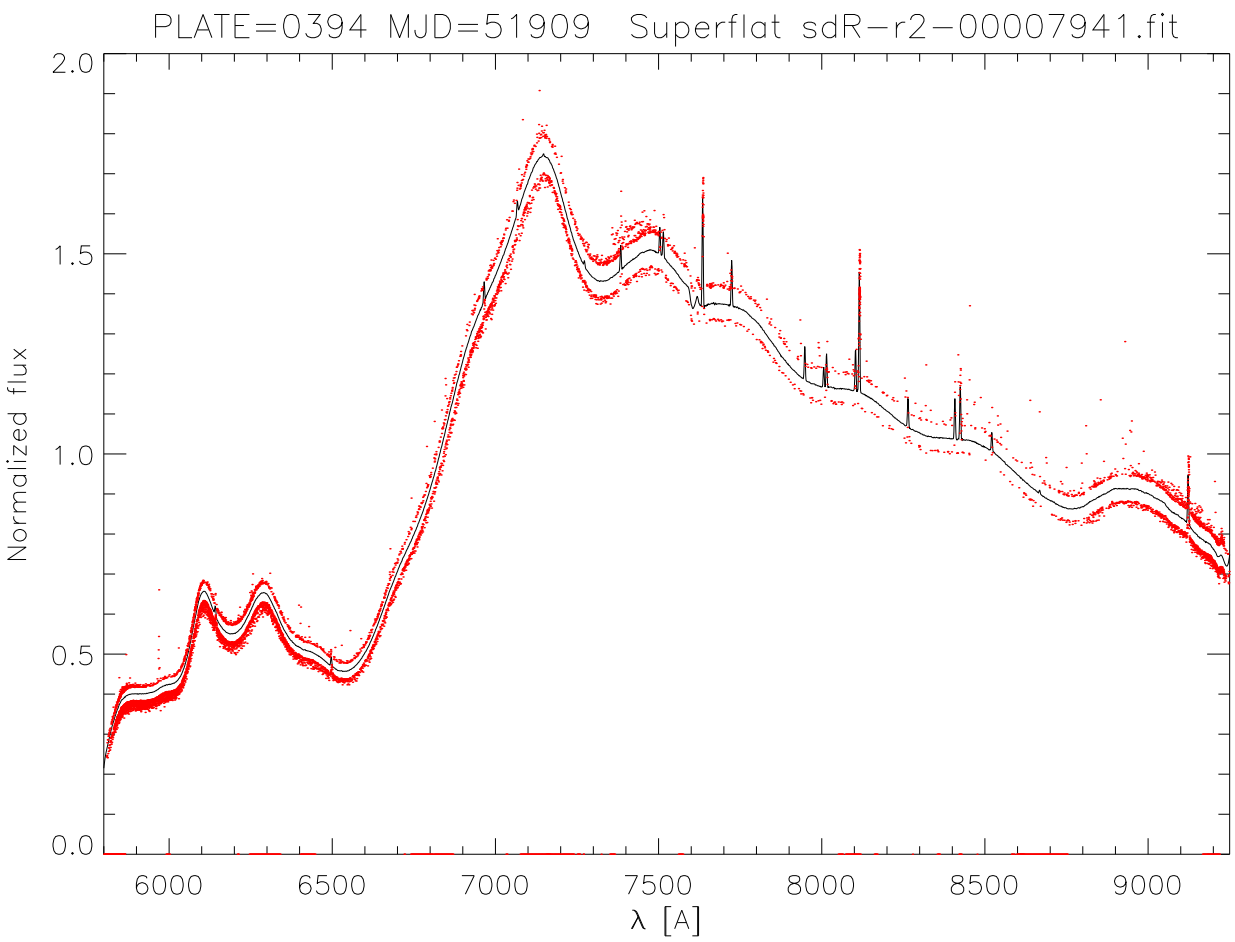

offset coeff residuals from ord=3 poly
1.5×10^-4
1.0×10^-4
5.0×10^-5
0
−5.0×10^-5
−1.0×10^-4
−1.5×10^-4
0
50
100
150
200
250
300
fiber

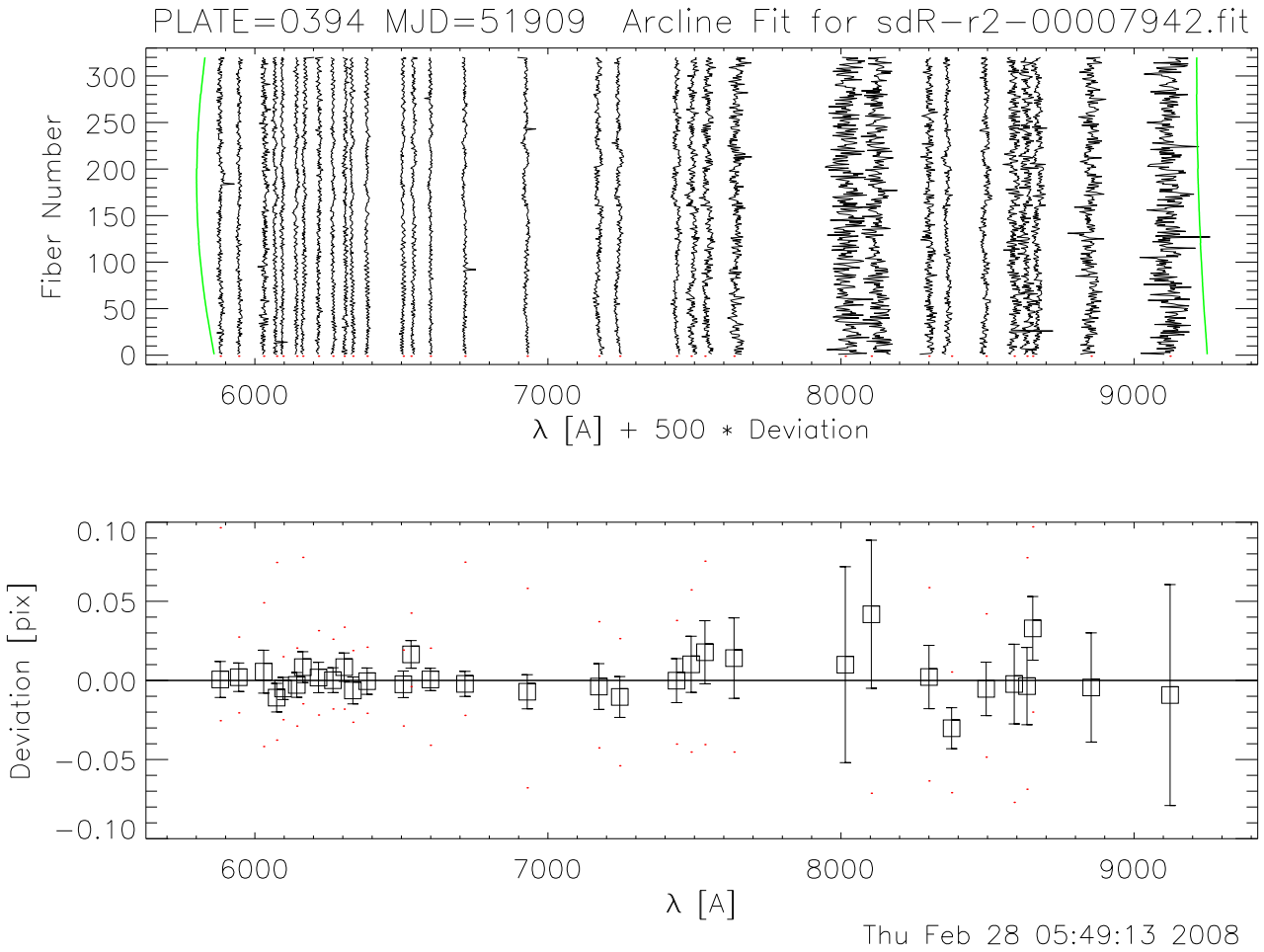

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber


PLATE=0394 MJD=51909 flat extraction chi^2 for sdR-r2-00007934.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

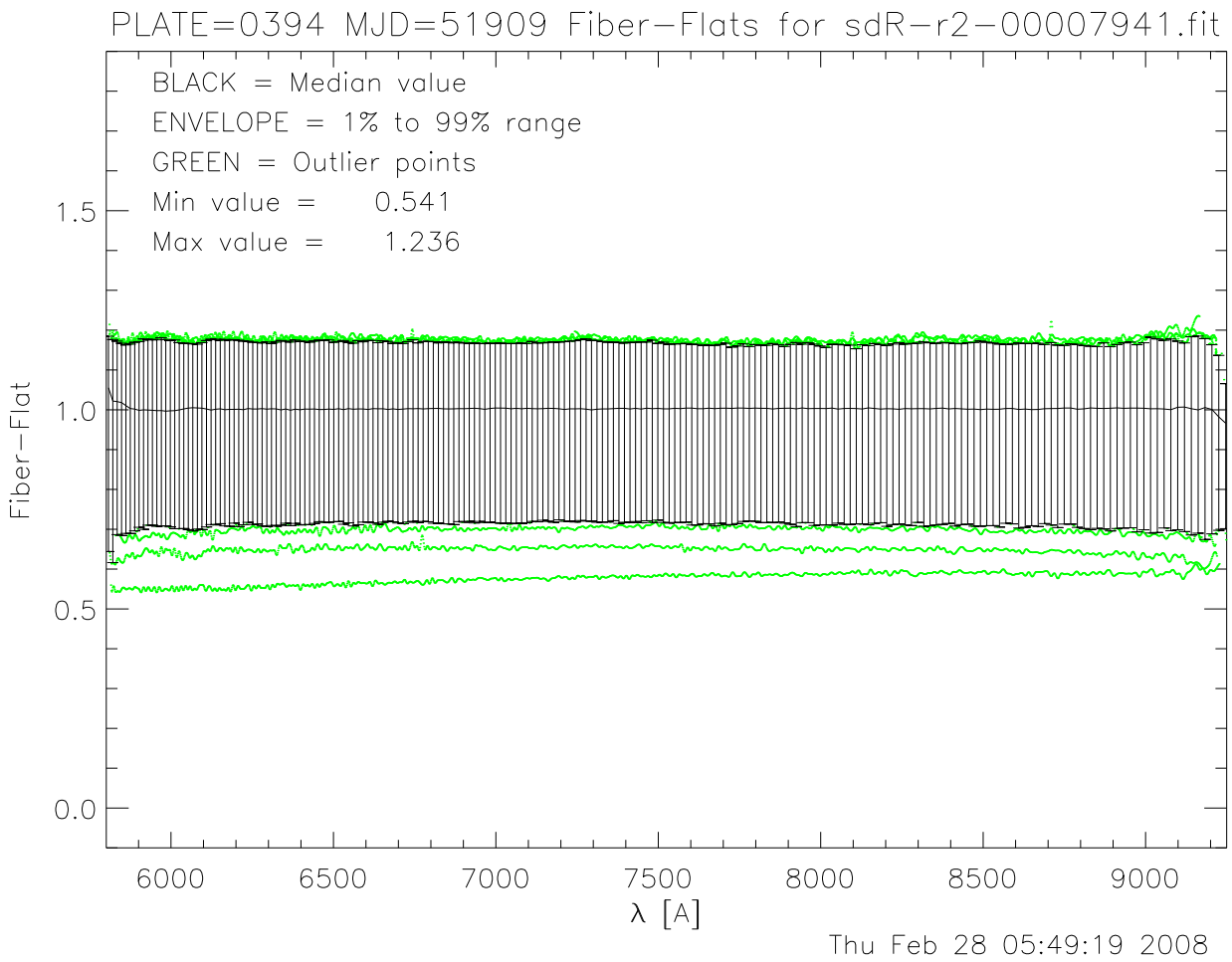

PLATE=0394 MJD=51909 Superflat sdR-r2-00007934.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

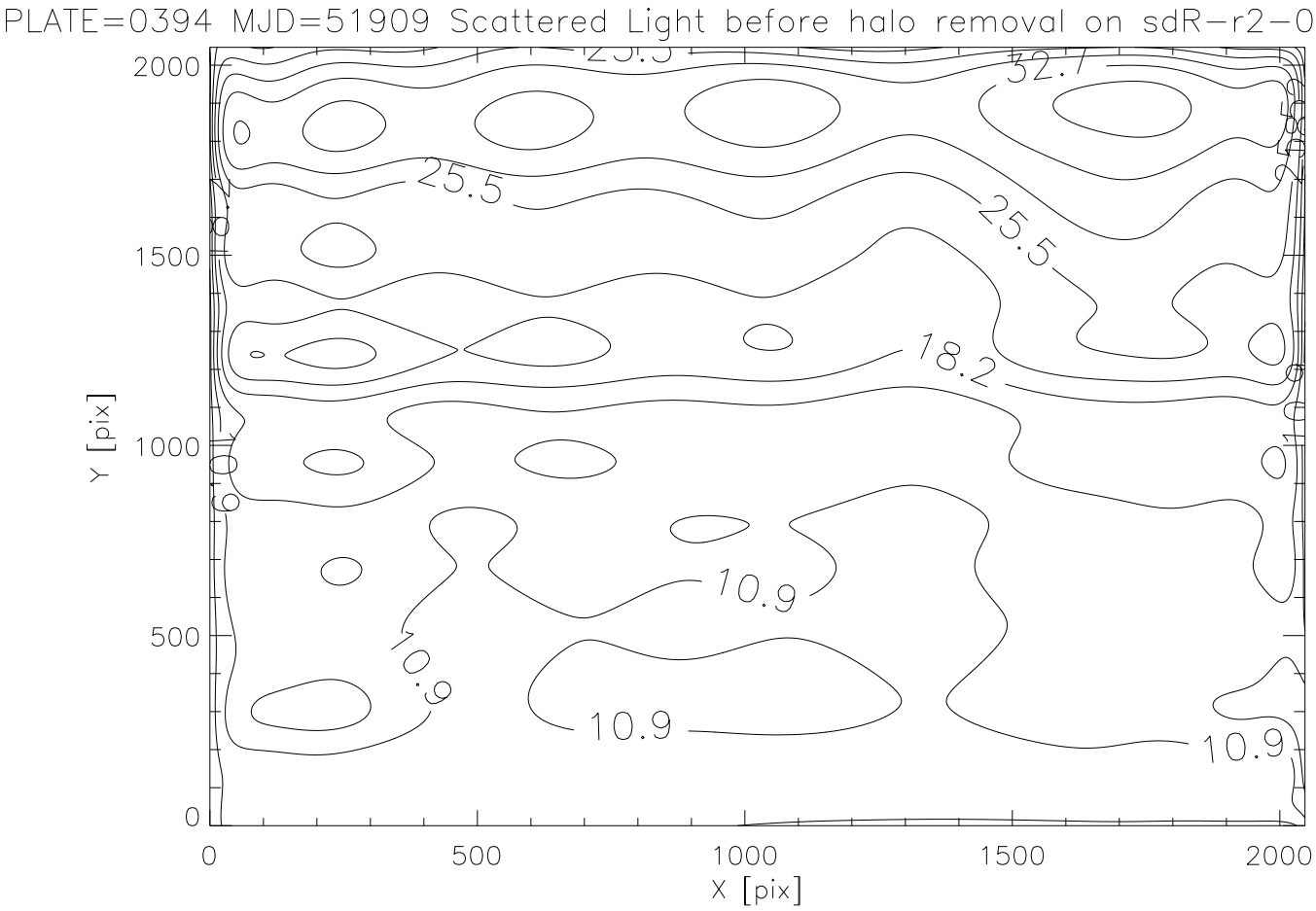

PLATE=0394 MJD=51909 flat extraction chi^2 for sdR-r2-00007941.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

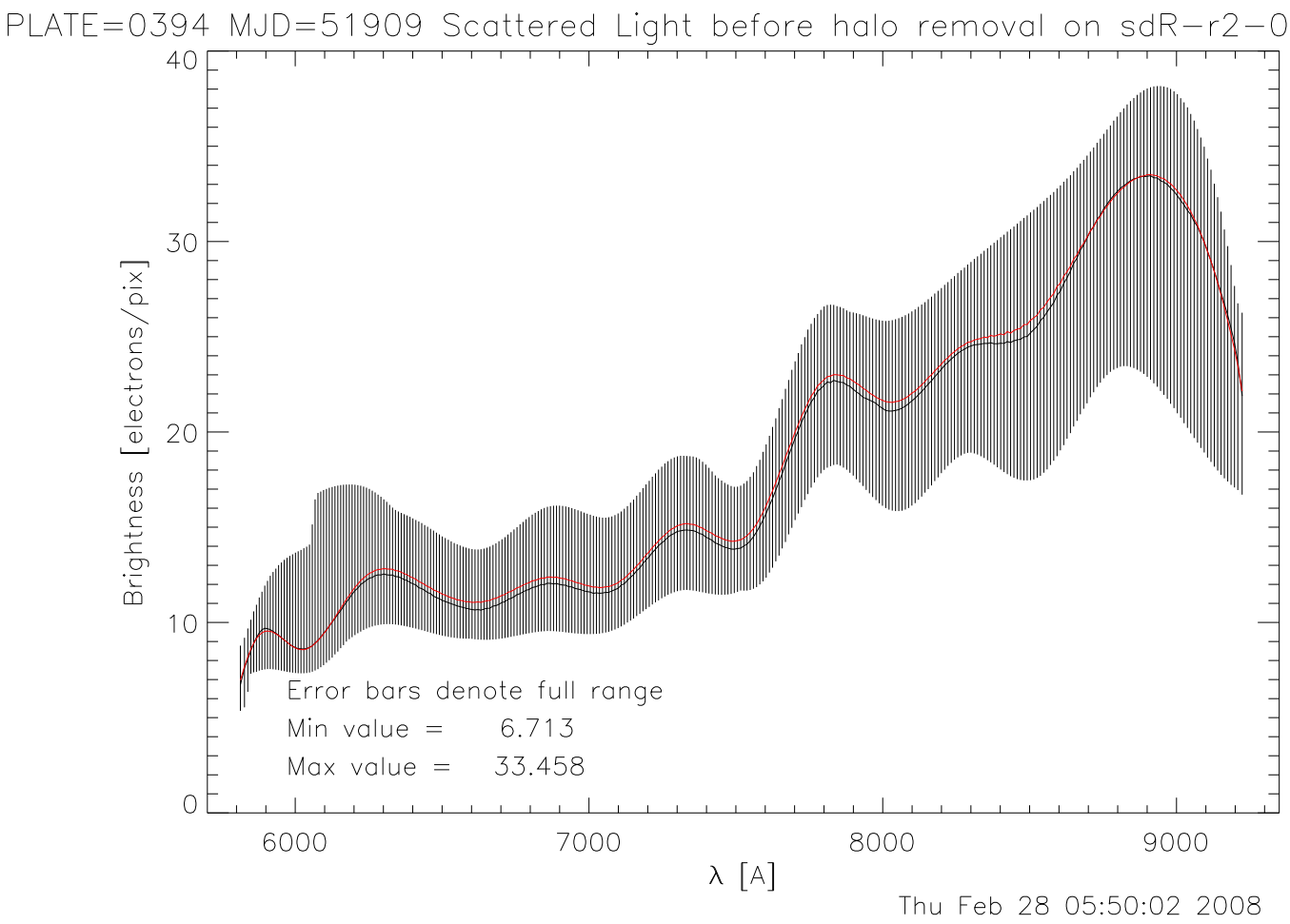

PLATE=0394 MJD=51909 Superflat sdR-r2-00007941.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

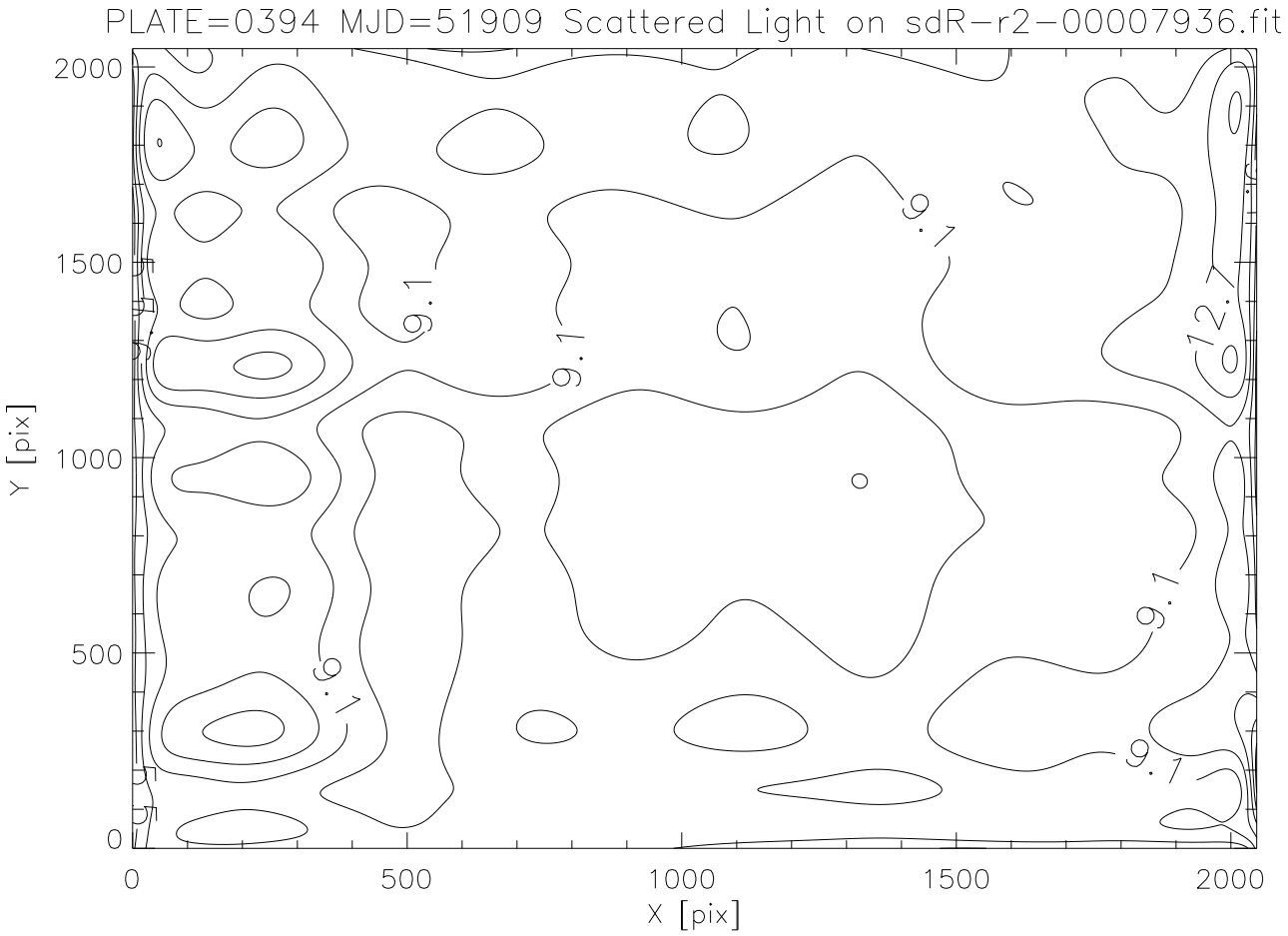

PLATE=0394 MJD=51909 Arcline Fit for sdR-r2-00007942.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation

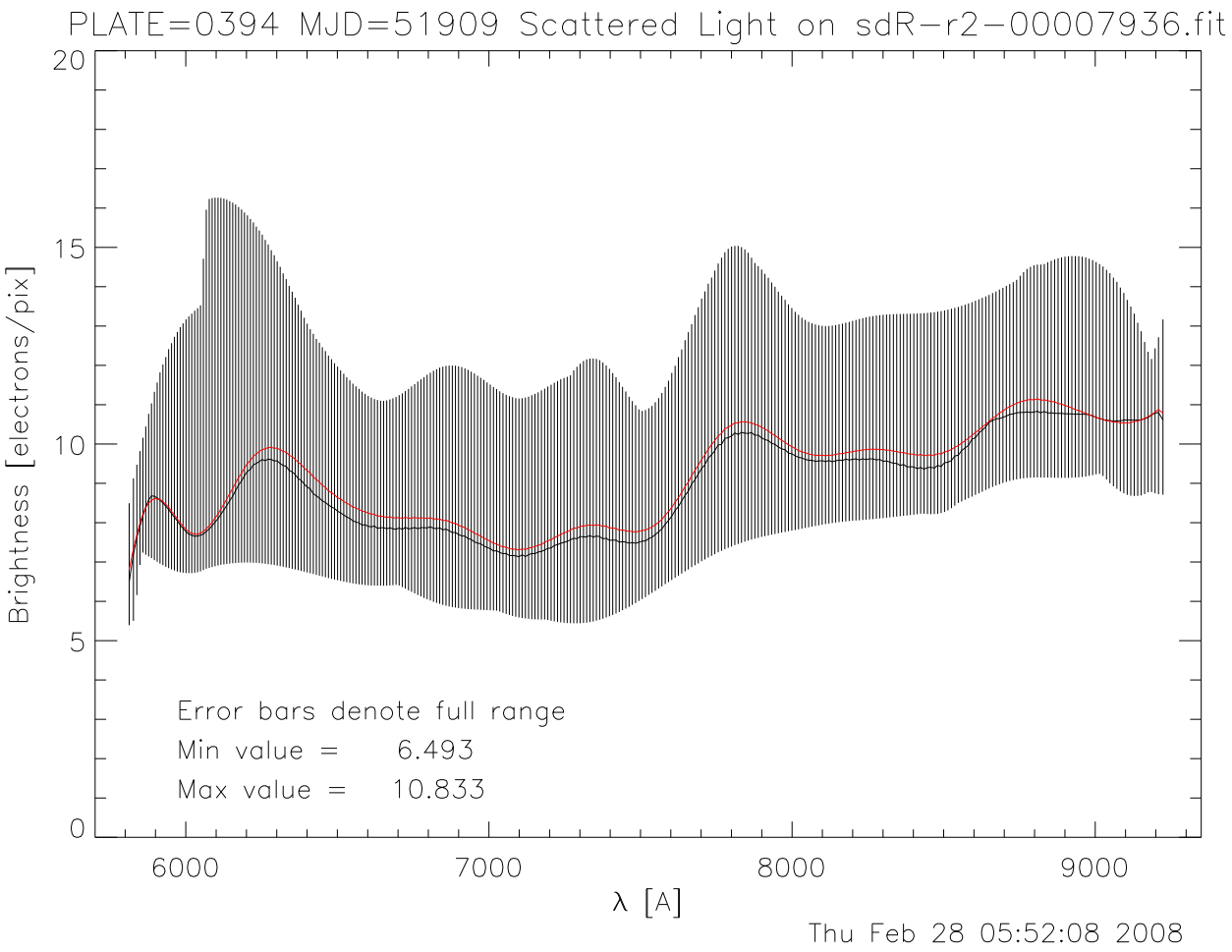
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Thu Feb 28 05:49:13 2008

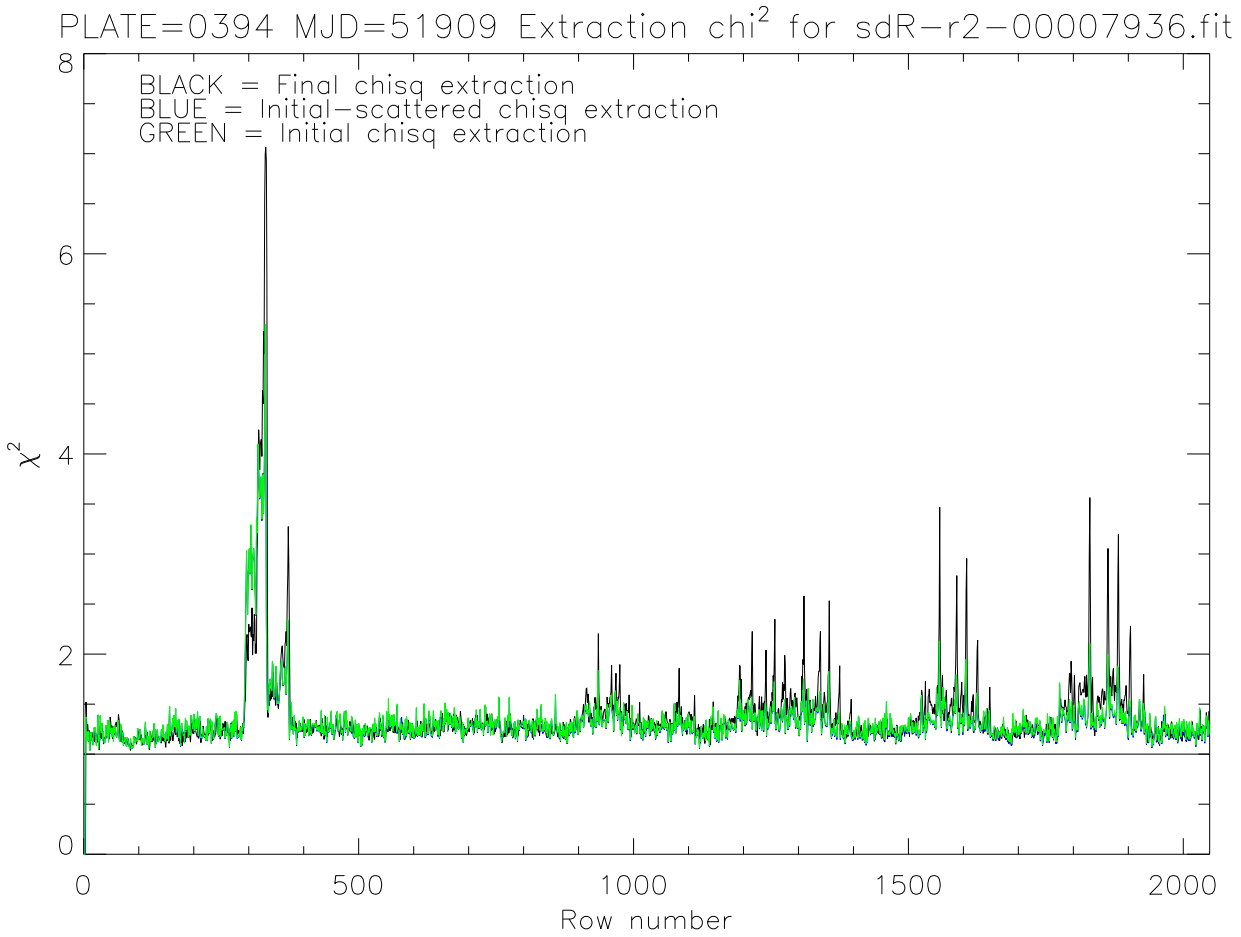

PLATE=0394 MJD=51909 Fiber−Flats for sdR−r2−00007941.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.541
Max value = 1.236
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Thu Feb 28 05:49:19 2008

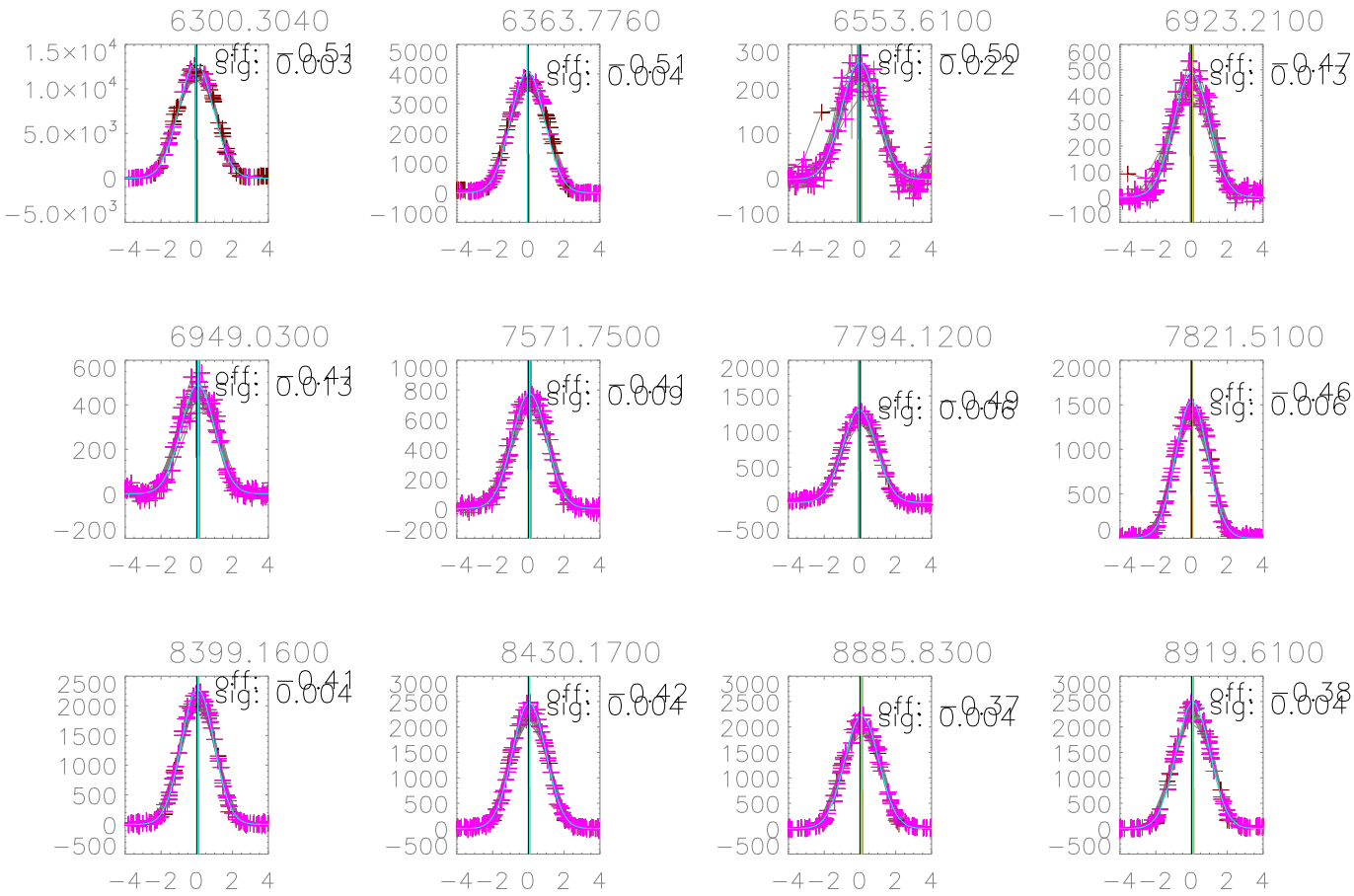

PLATE=0394 MJD=51909 Scattered Light before halo removal on sdR-r2-00007936.fi
25.5
52.7
0
25.5
25.5
18.2
10.9
10.9
10.9
10.9
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

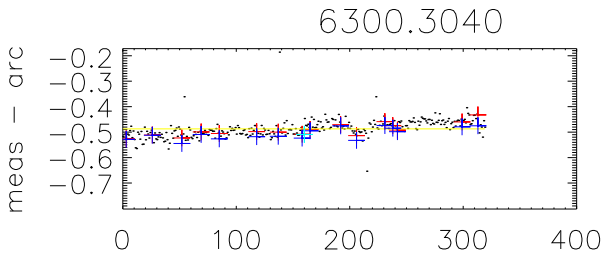

PLATE=0394 MJD=51909 Scattered Light before halo removal on sdR-r2-00007936.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.713
Max value = 33.458
Thu Feb 28 05:50:02 2008

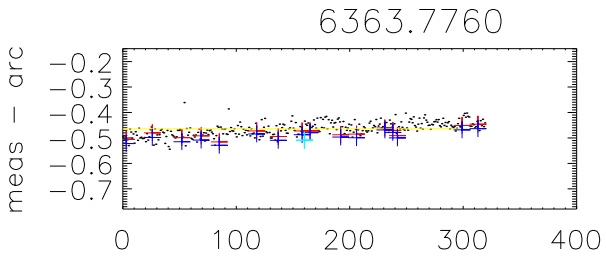

PLATE=0394 MJD=51909 Scattered Light on sdR-r2-00007936.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
9.1
9.1
9.1
9.1
9.1
12.7

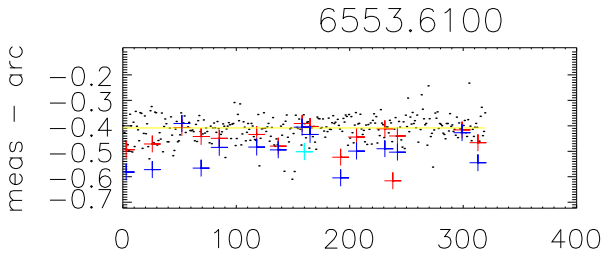

PLATE=0394 MJD=51909 Scattered Light on sdR-r2-00007936.fit
Brightness [electrons/pix]
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 6.493
Max value = 10.833
Thu Feb 28 05:52:08 2008

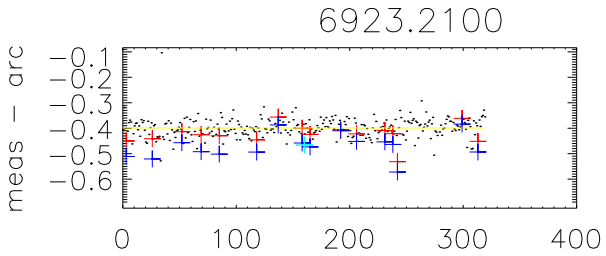

PLATE=0394 MJD=51909 Extraction chi^2 for sdR-r2-00007936.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

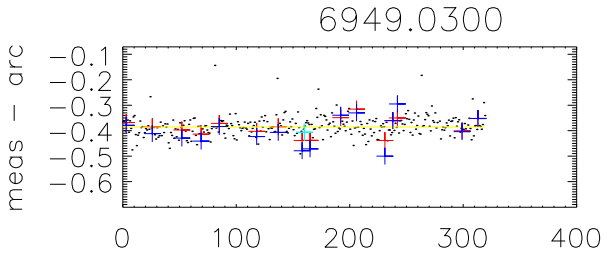

6300.3040
off: −0.51
sig: 0.003
6363.7760
off: −0.51
sig: 0.004
6553.6100
off: −0.50
sig: 0.022
6923.2100
off: −0.47
sig: 0.013
6949.0300
off: −0.41
sig: 0.013
7571.7500
off: −0.41
sig: 0.009
7794.1200
off: −0.49
sig: 0.006
7821.5100
off: −0.46
sig: 0.006
8399.1600
off: −0.41
sig: 0.004
8430.1700
off: −0.42
sig: 0.004
8885.8300
off: −0.37
sig: 0.004
8919.6100
off: −0.38
sig: 0.004

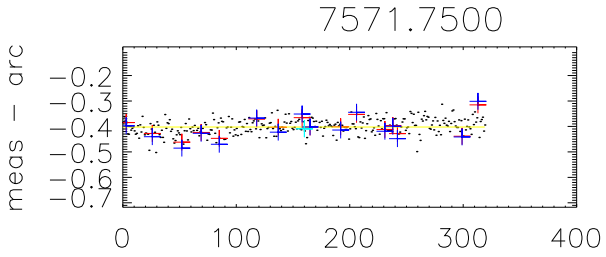

6300.3040
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

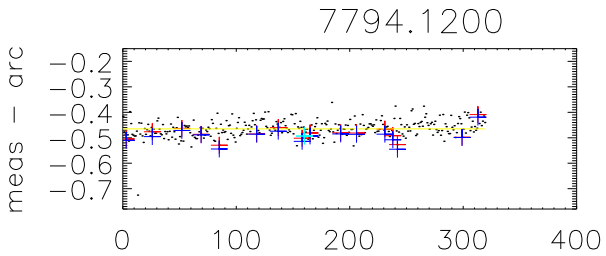

6363.7760
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

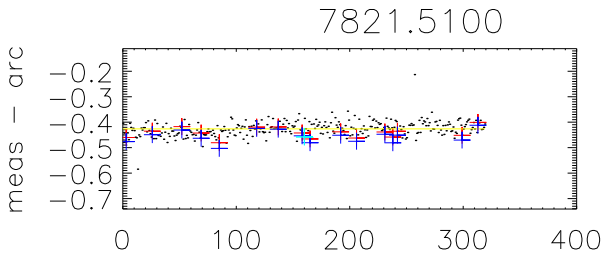

6553.6100
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

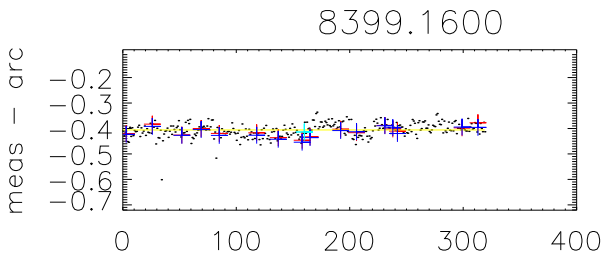

6923.2100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

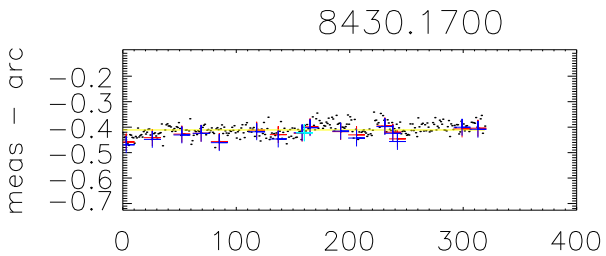

6949.0300
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

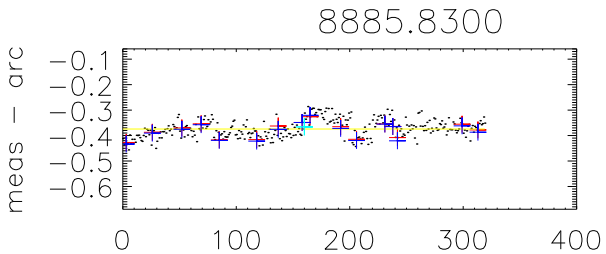

7571.7500
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

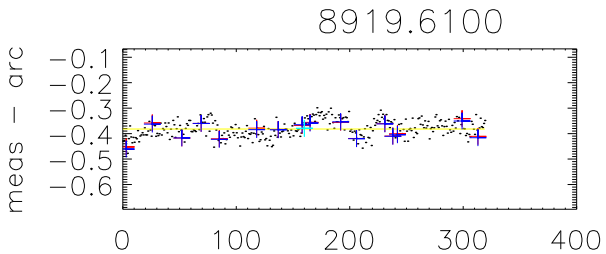

7794.1200
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

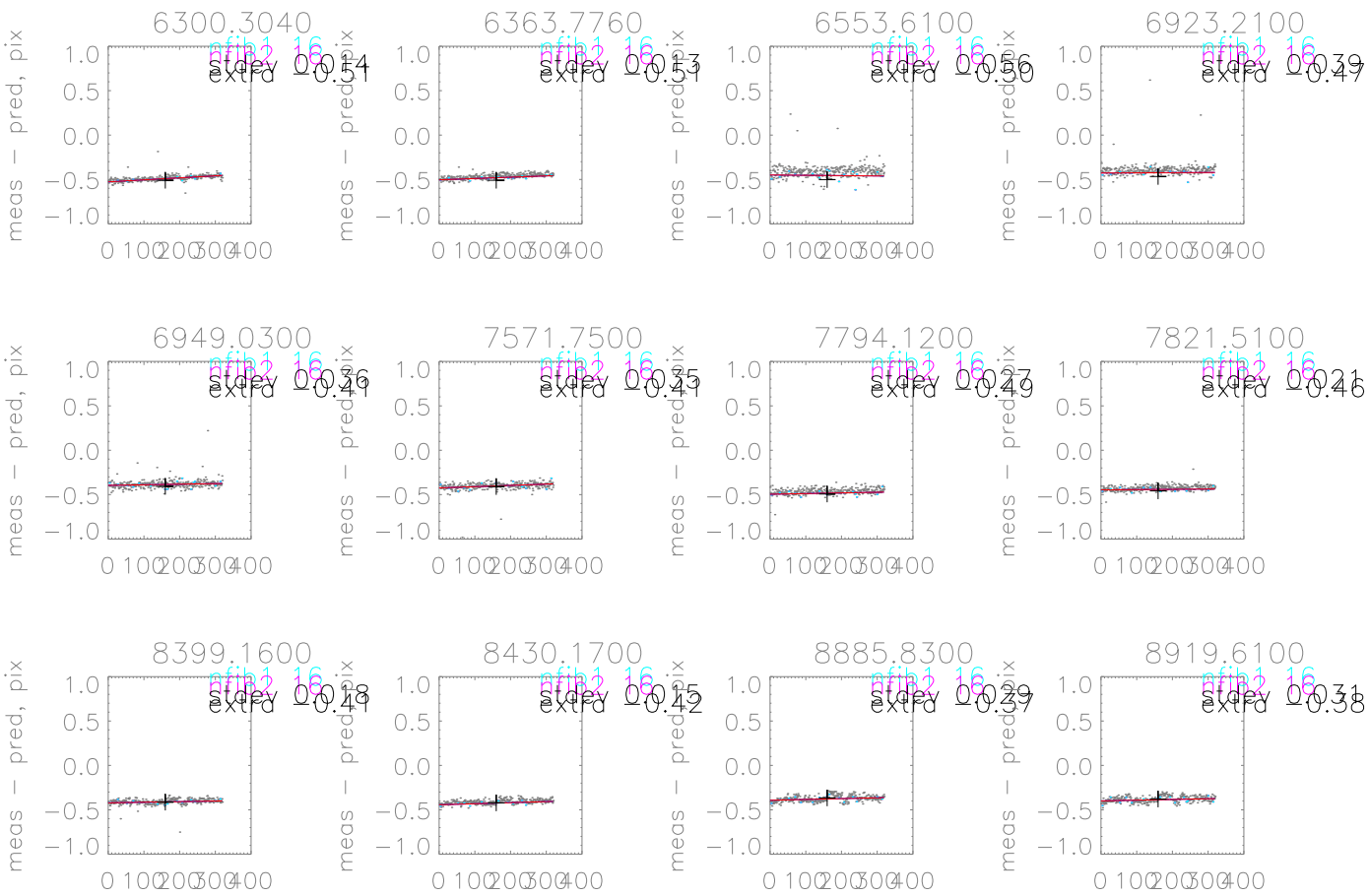

7821.5100
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

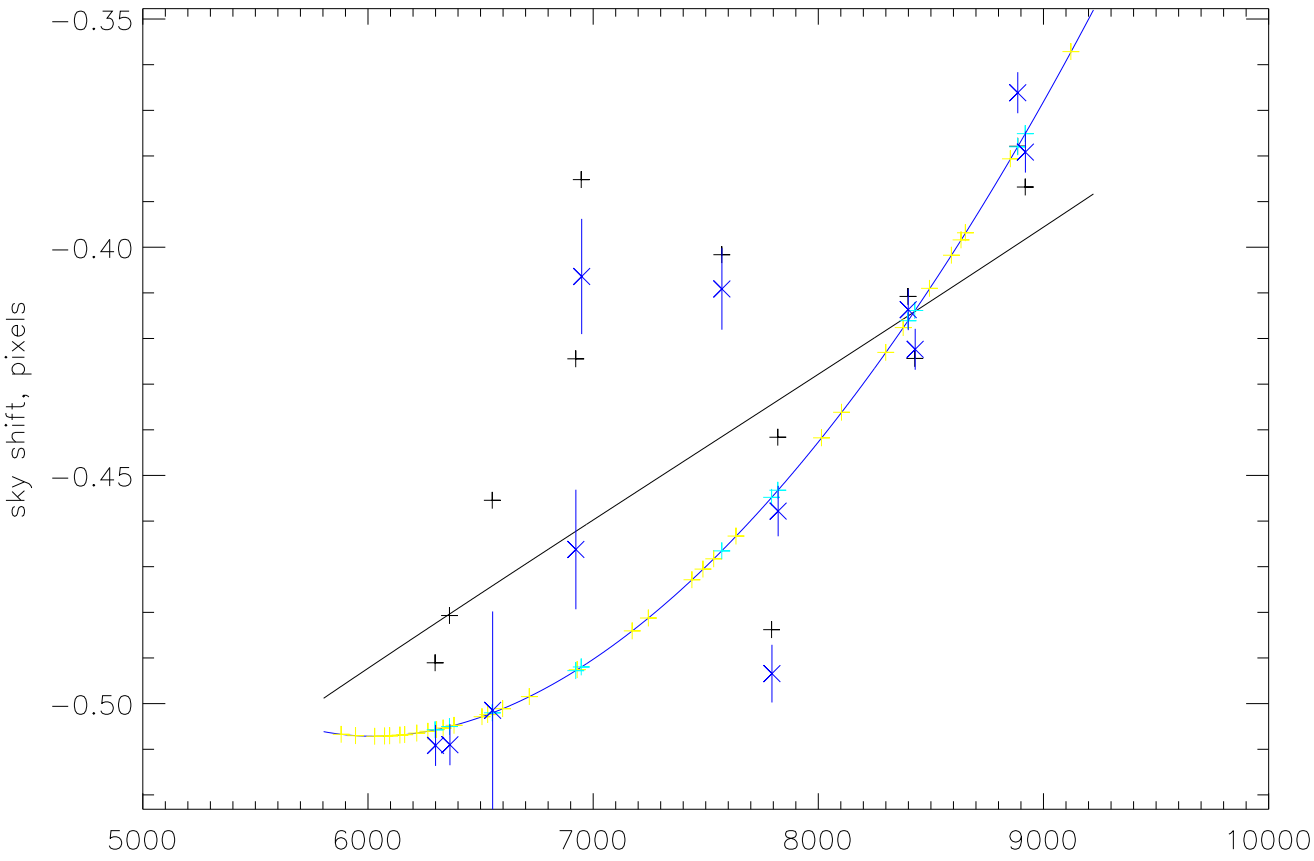

8399.1600
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

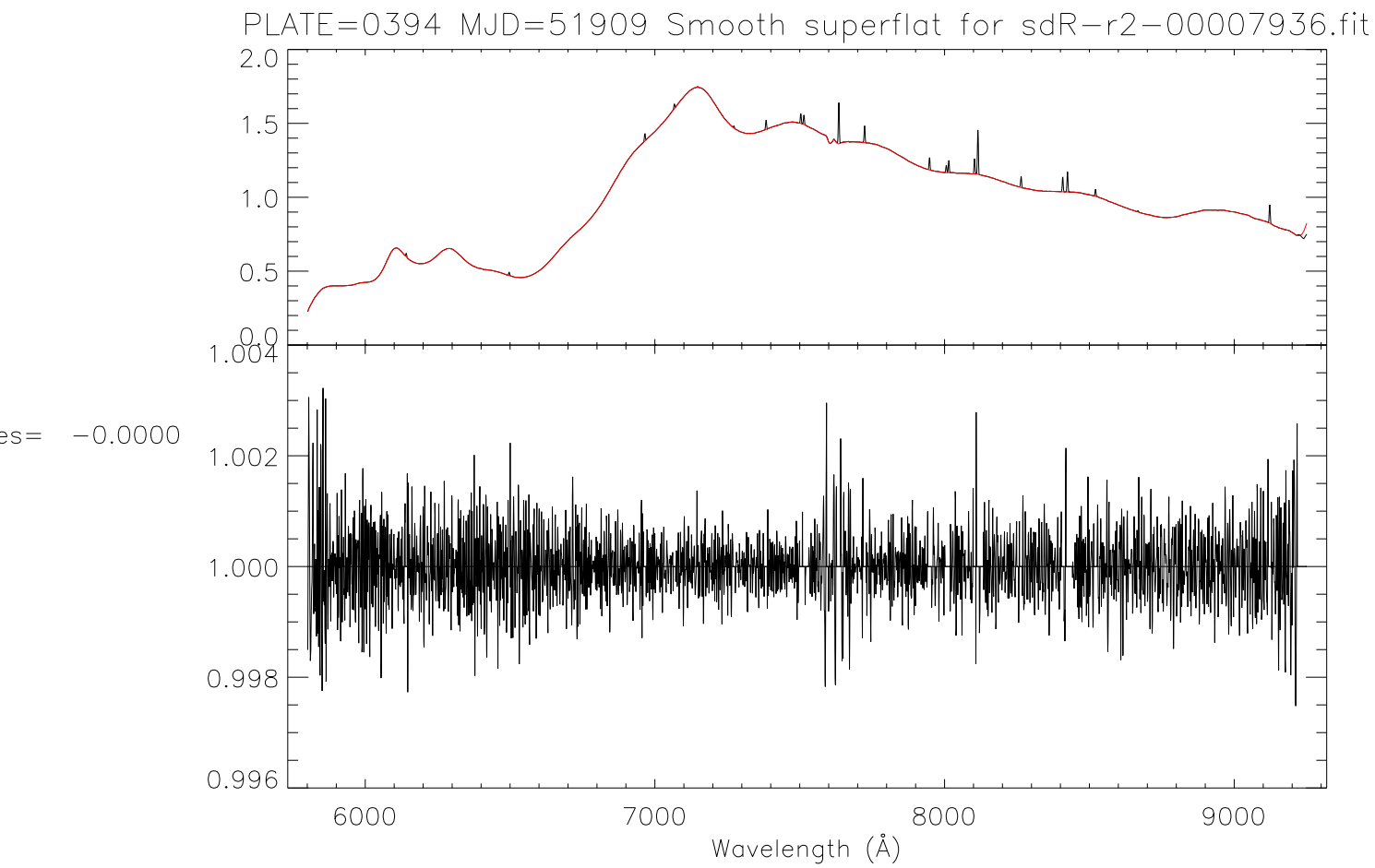

8430.1700
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

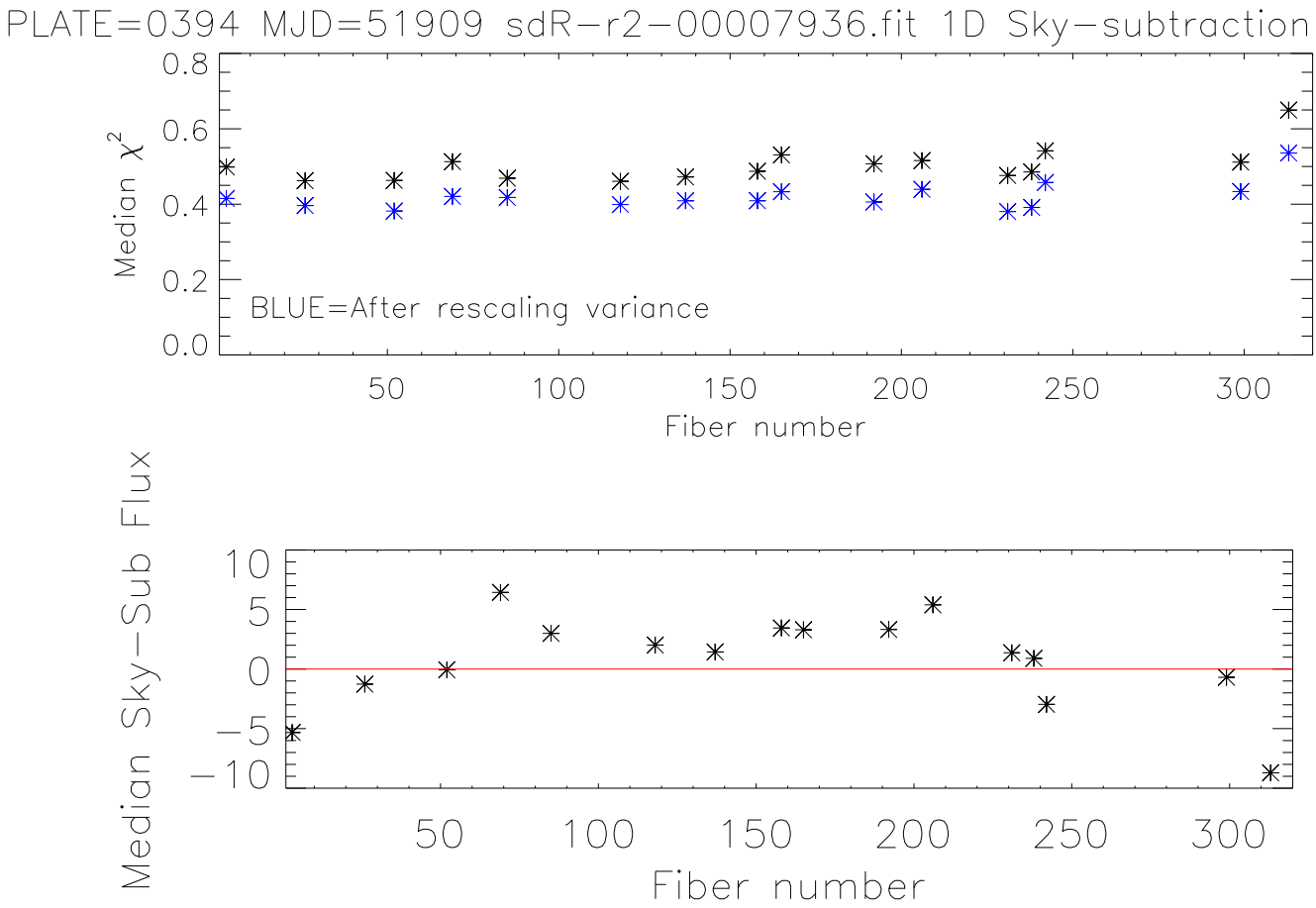

8885.8300
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

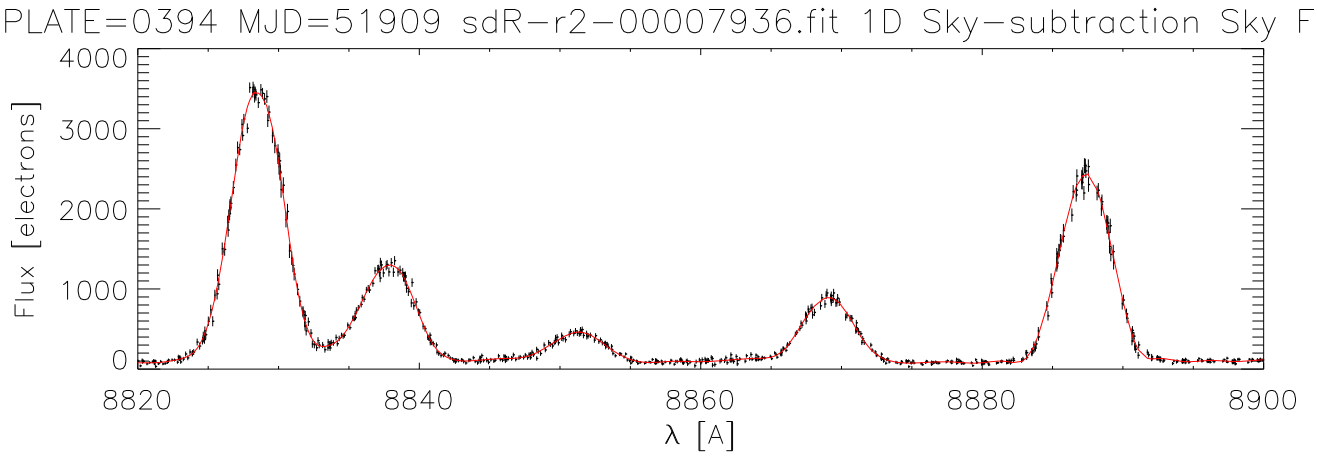

8919.6100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

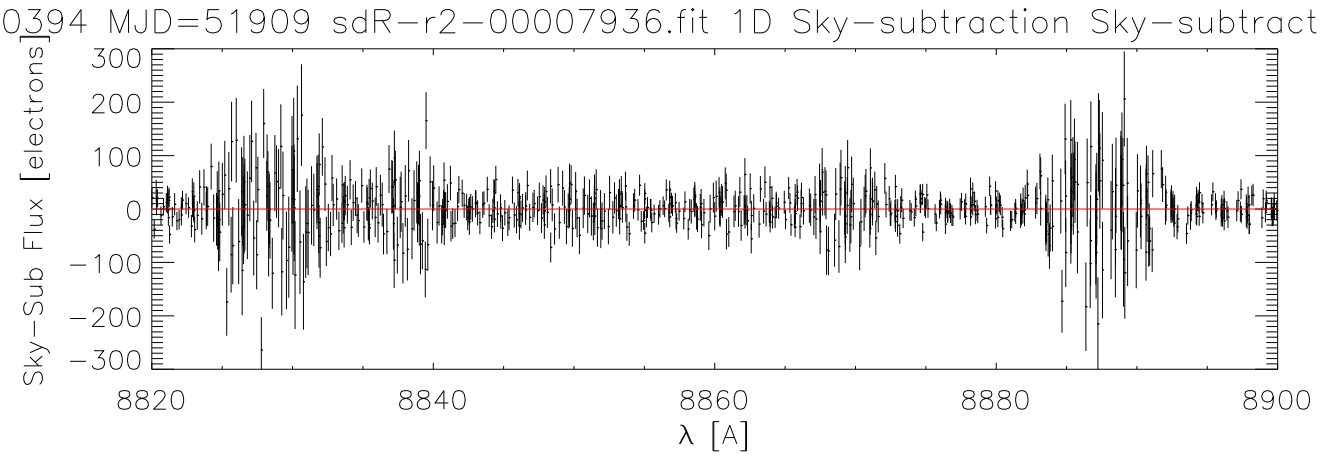

6300.3040
stdev 0.54
extra 0.51
6363.7760
stdev 0.53
extra 0.51
6553.6100
stdev 0.56
extra 0.50
6923.2100
stdev 0.39
extra 0.47
6949.0300
stdev 0.36
extra 0.41
7571.7500
stdev 0.35
extra 0.41
7794.1200
stdev 0.27
extra 0.49
7821.5100
stdev 0.21
extra 0.46
8399.1600
stdev 0.18
extra 0.41
8430.1700
stdev 0.15
extra 0.42
8885.8300
stdev 0.29
extra 0.37
8919.6100
stdev 0.31
extra 0.38
meas − pred, pix
mfib1 16
mfib2 16

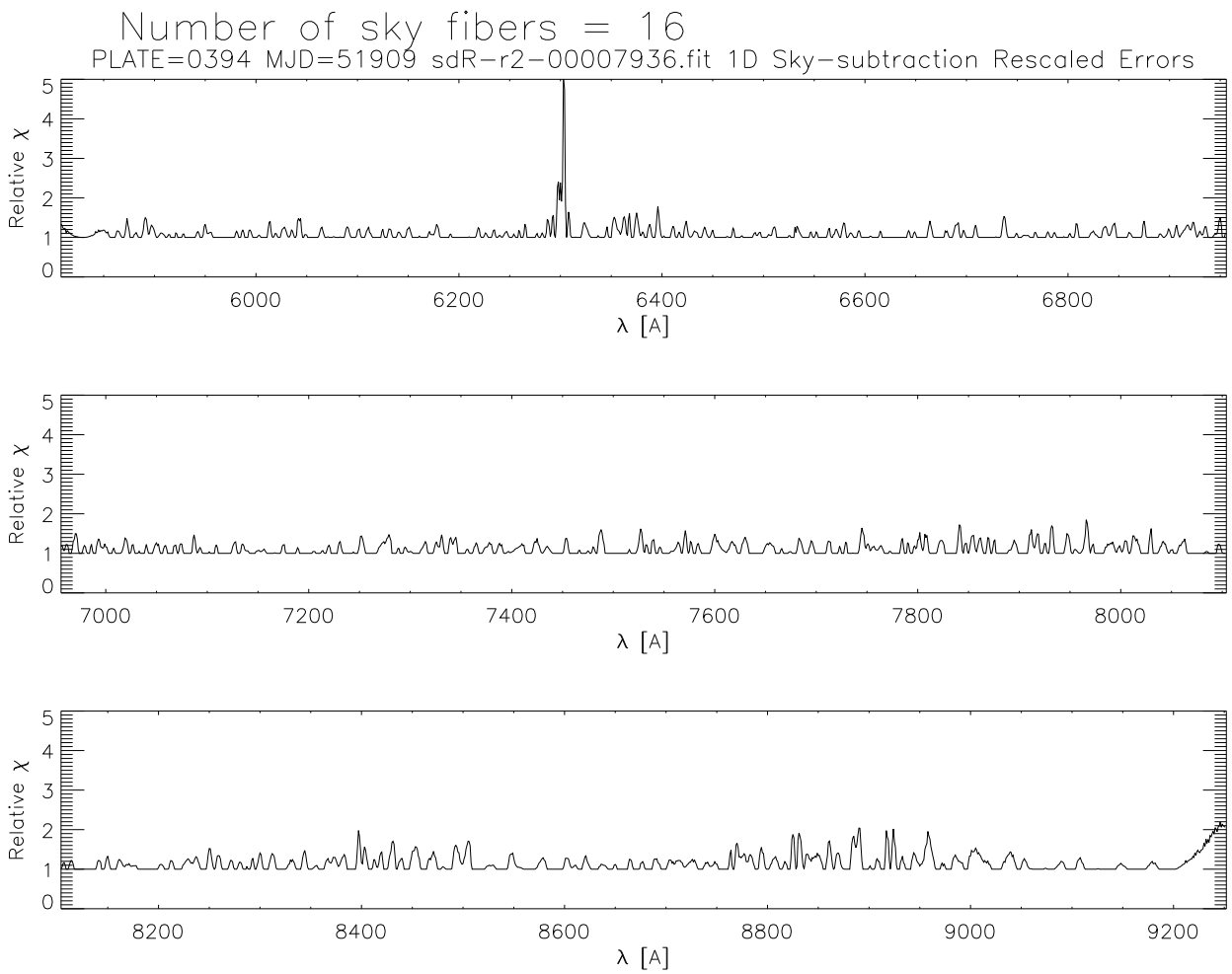

−0.35
−0.40
−0.45
−0.50
sky shift, pixels
5000
6000
7000
8000
9000
10000

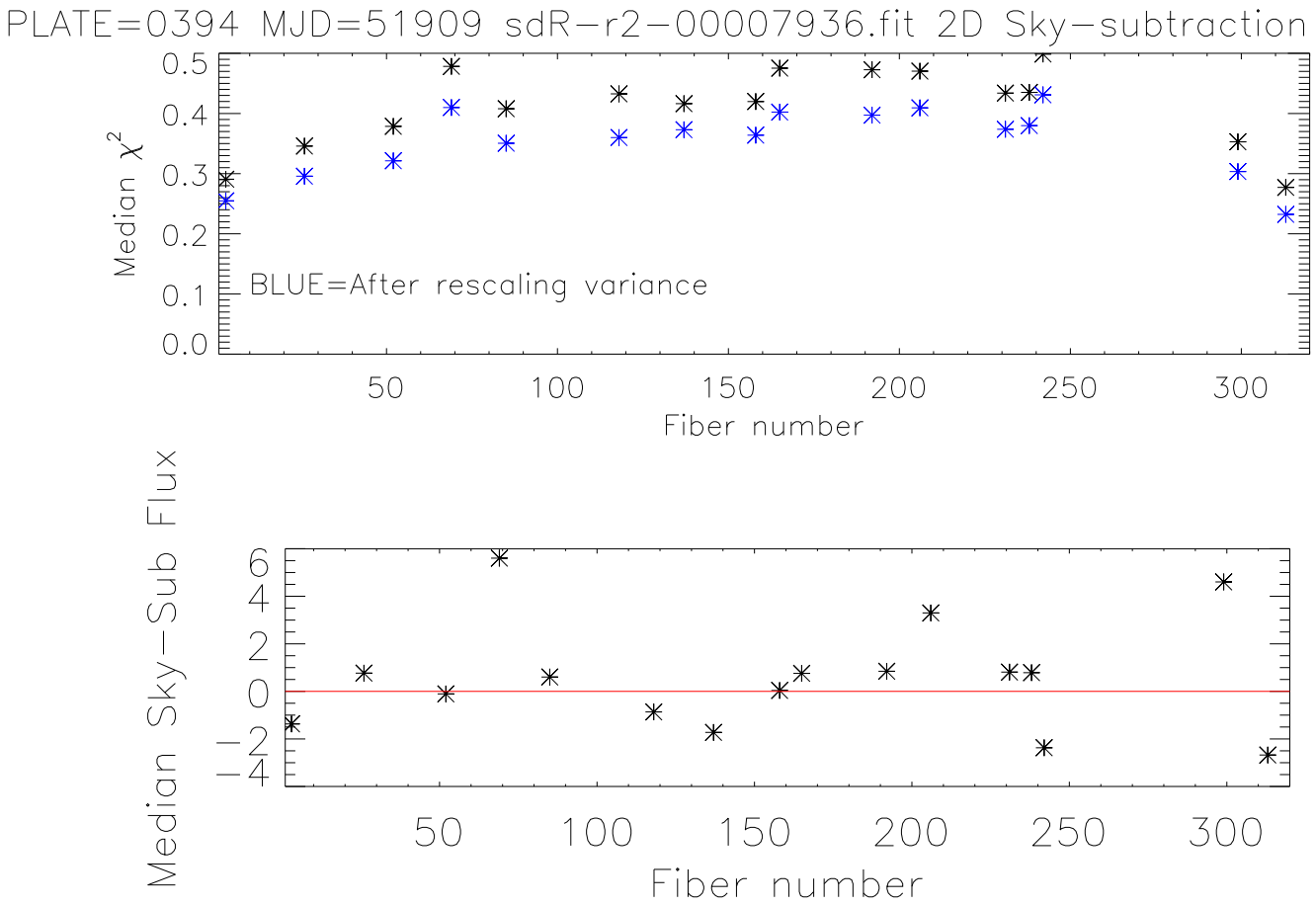

PLATE=0394 MJD=51909 Smooth superflat for sdR-r2-00007936.fit
2.0
1.5
1.0
0.5
0.0
1.004
1.002
1.000
0.998
0.996
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

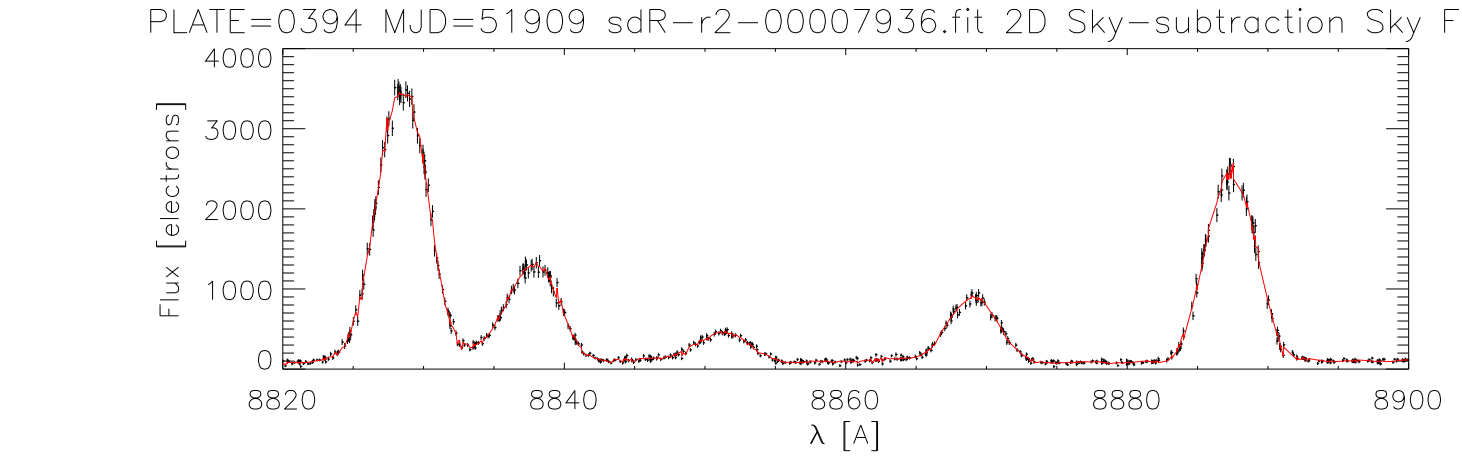

PLATE=0394 MJD=51909 sdR-r2-00007936.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

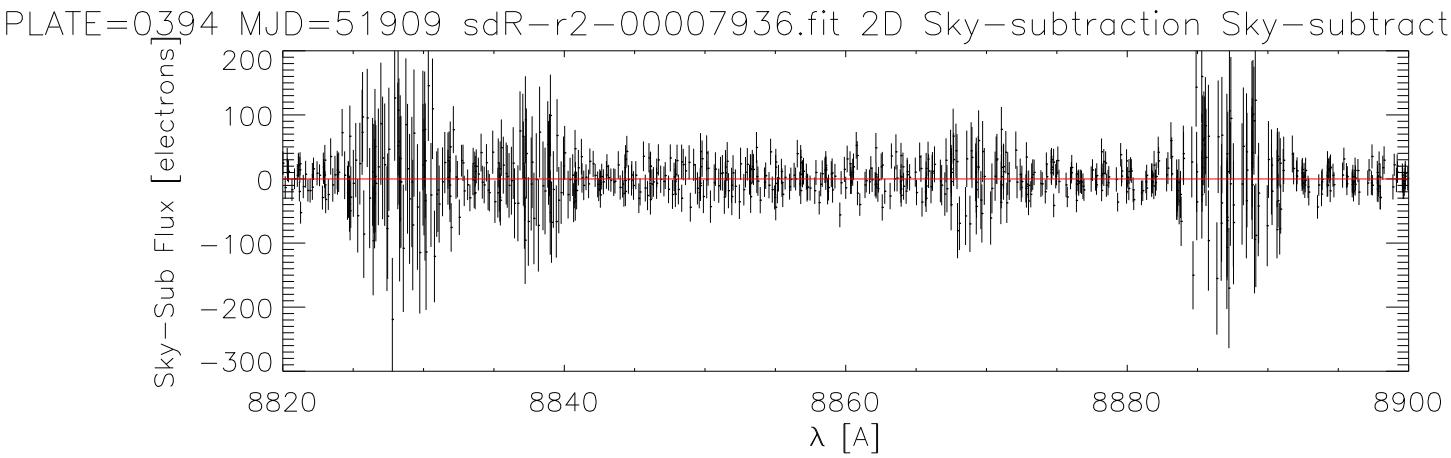

PLATE=0394 MJD=51909 sdR-r2-00007936.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

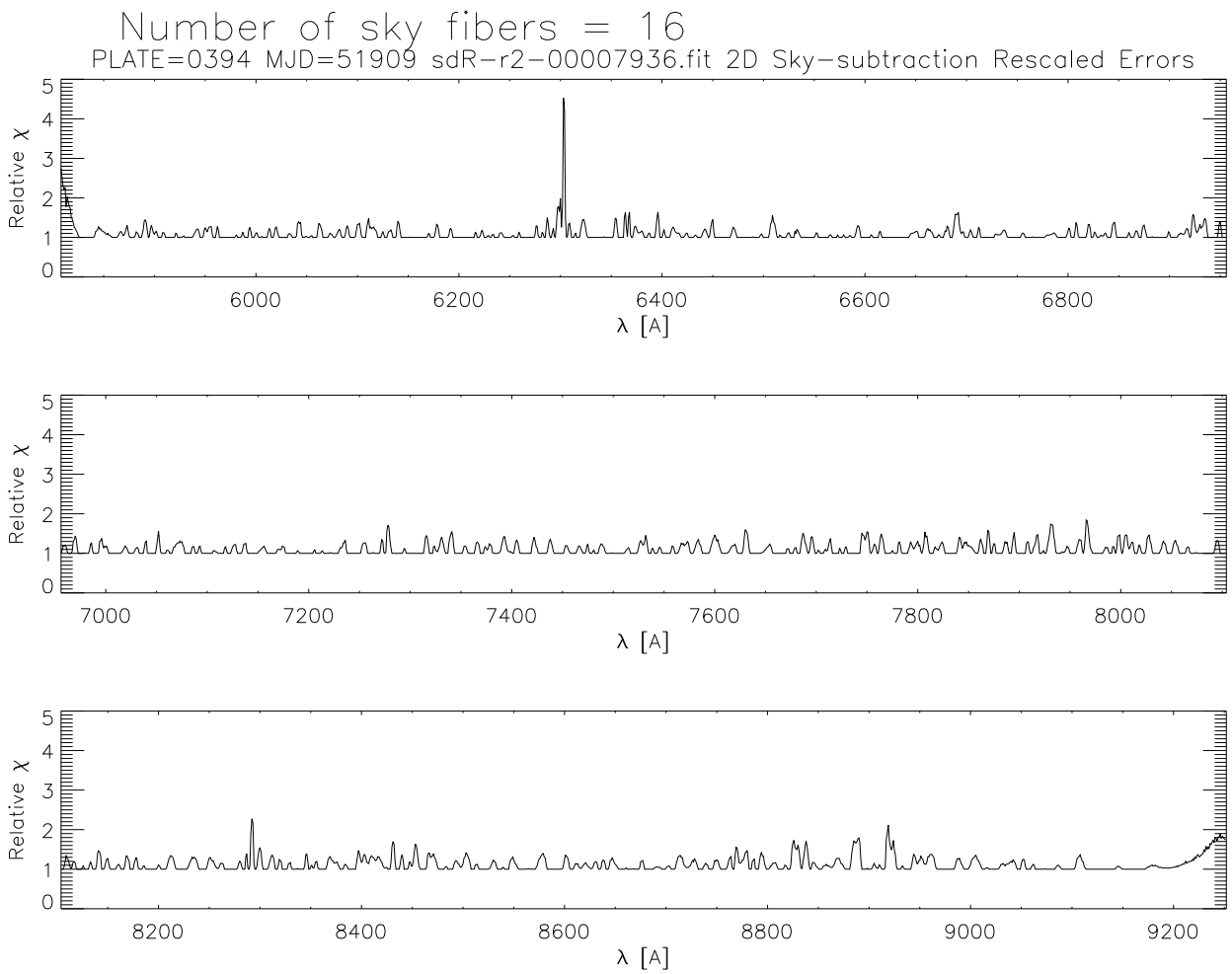

PLATE=0394 MJD=51909 sdR-r2-00007936.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

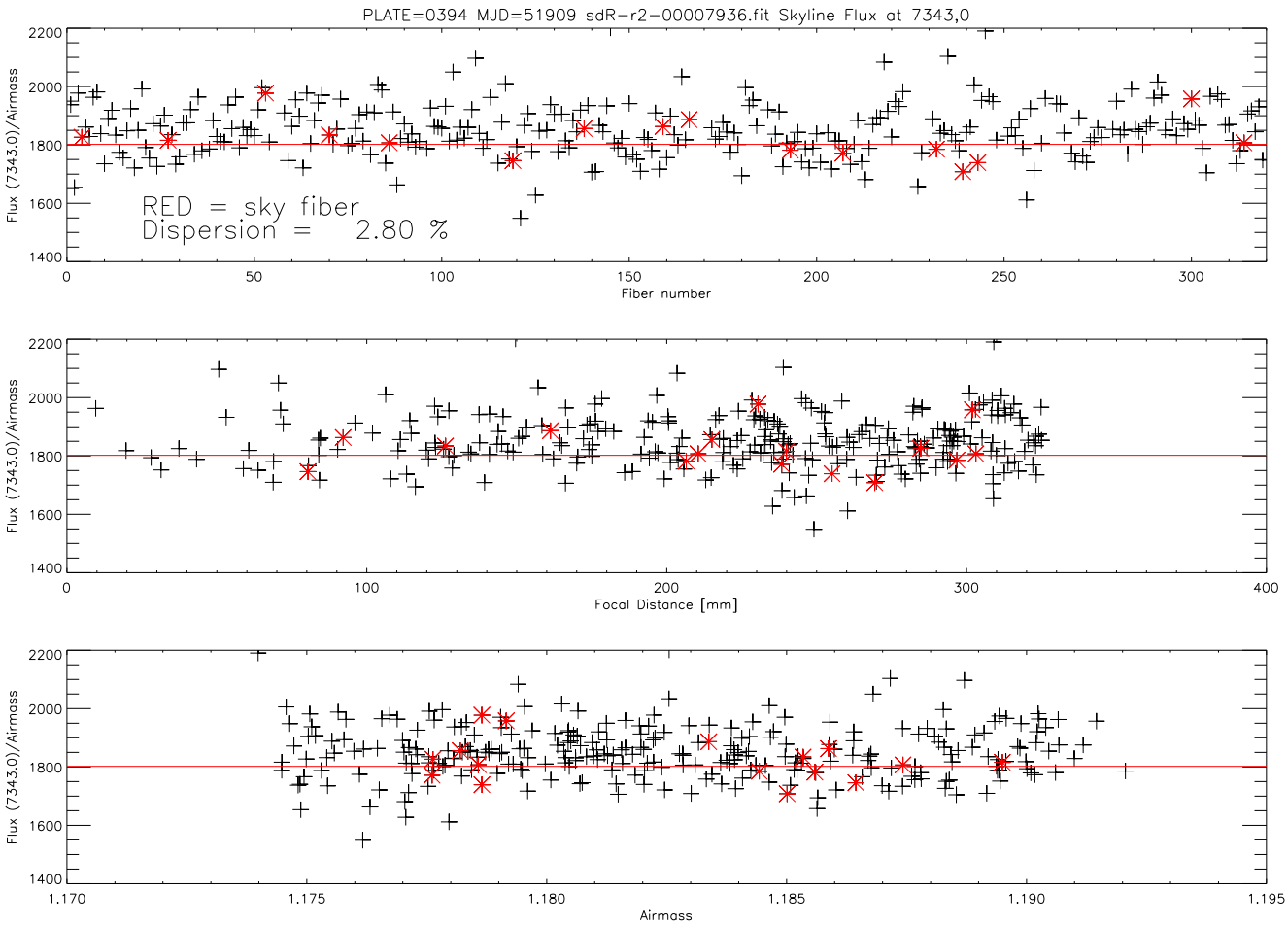

Number of sky fibers = 16
PLATE=0394 MJD=51909 sdR-r2-00007936.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

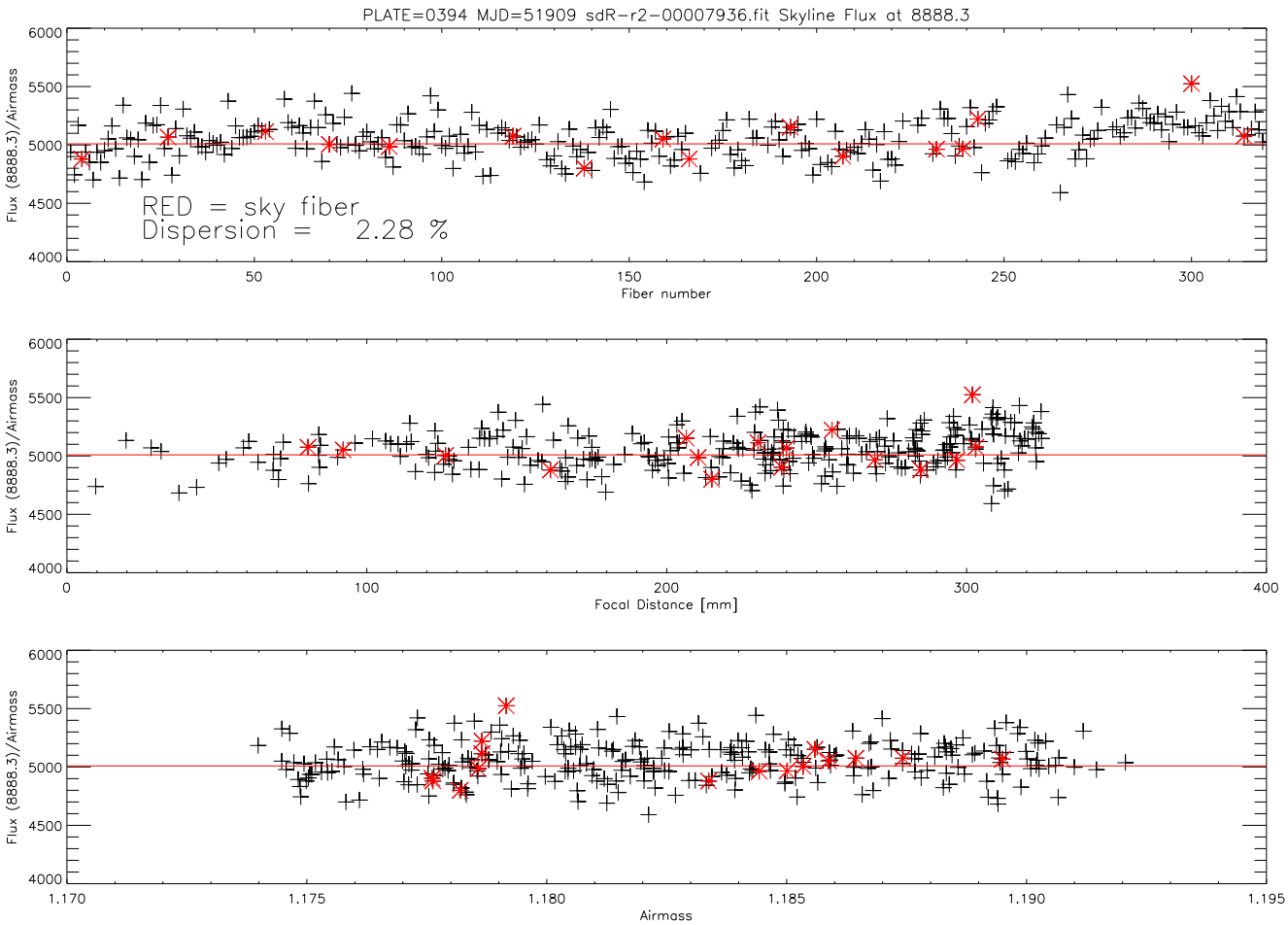

PLATE=0394 MJD=51909 sdR-r2-00007936.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

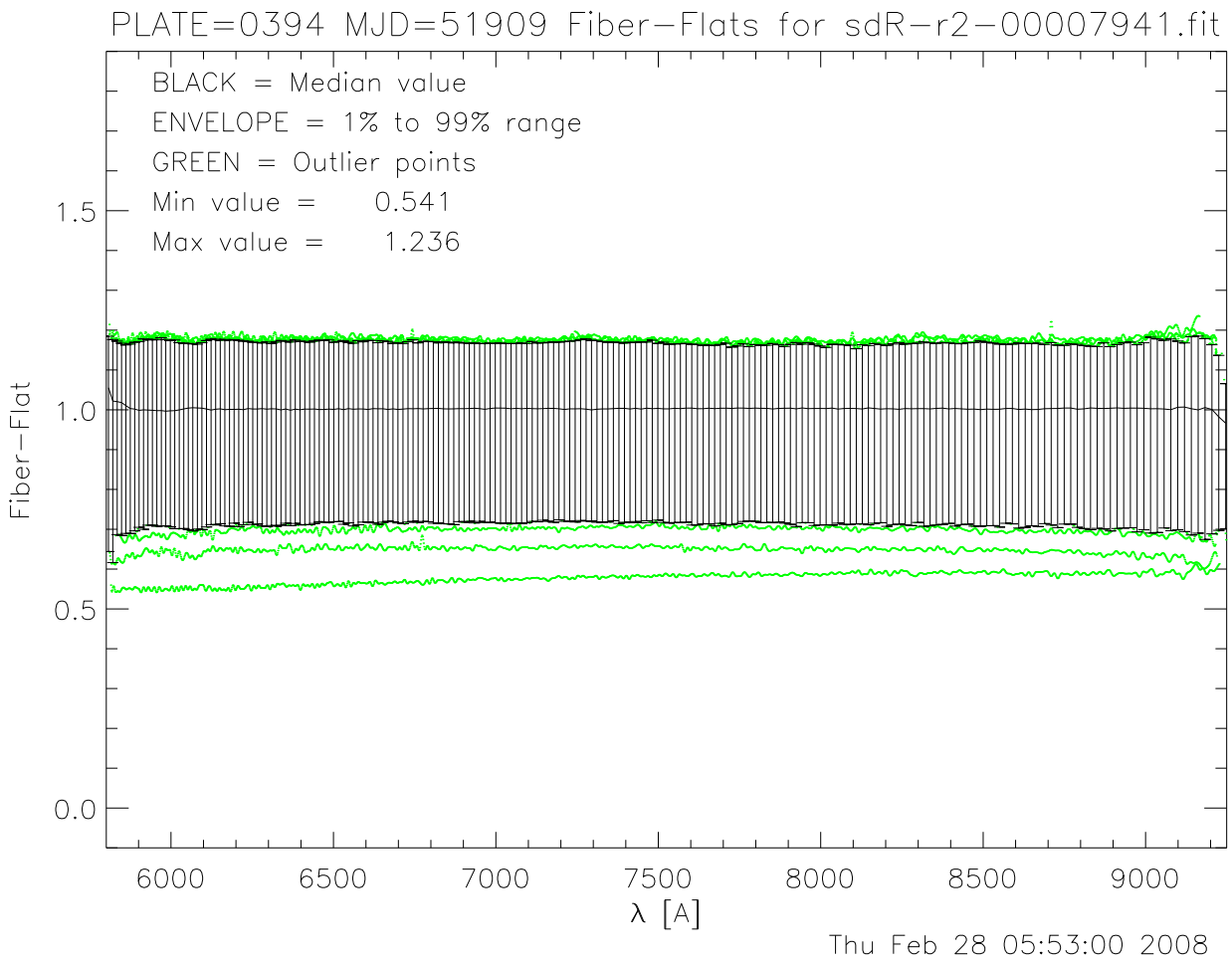

PLATE=0394 MJD=51909 sdR-r2-00007936.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

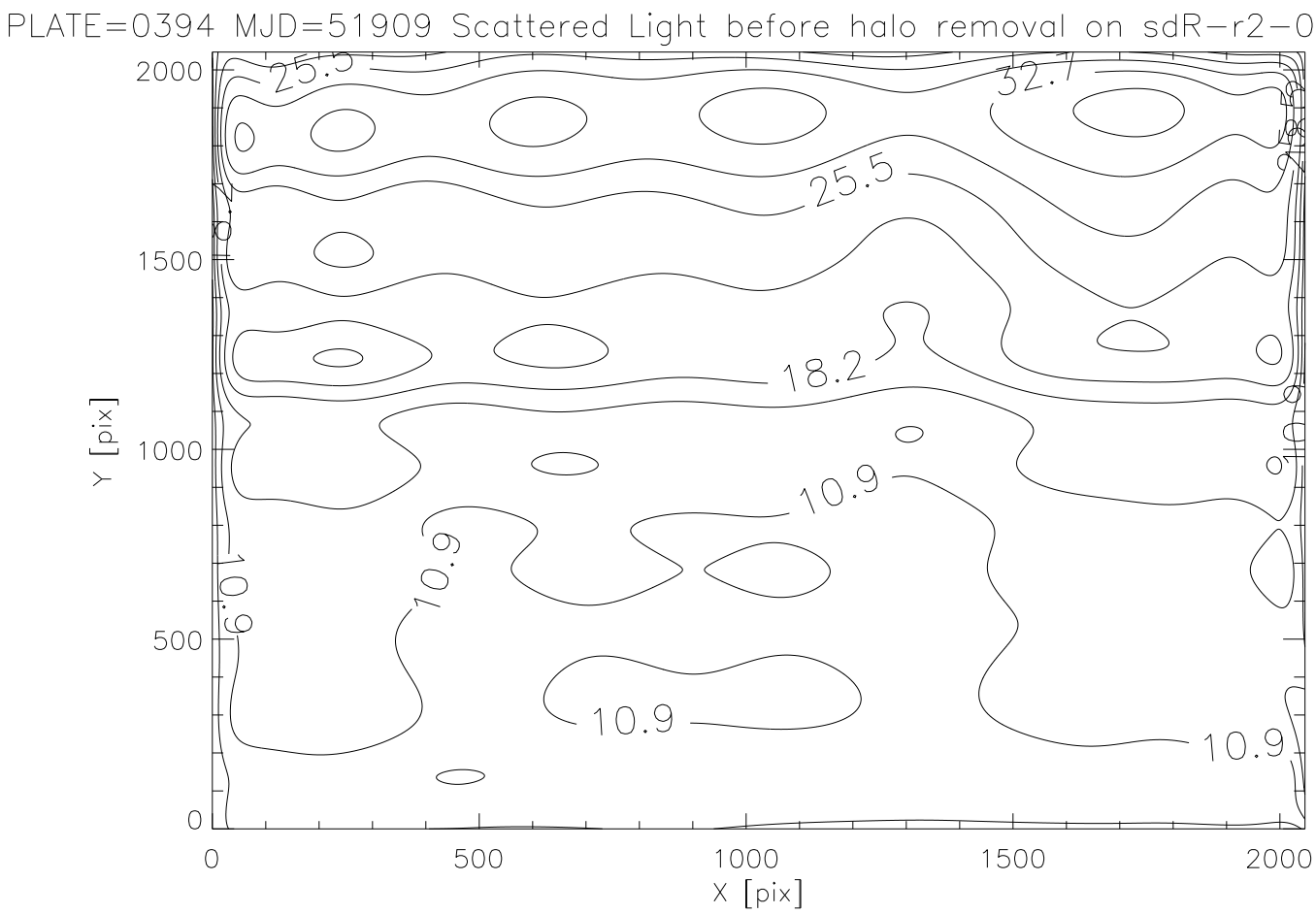

PLATE=0394 MJD=51909 sdR-r2-00007936.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

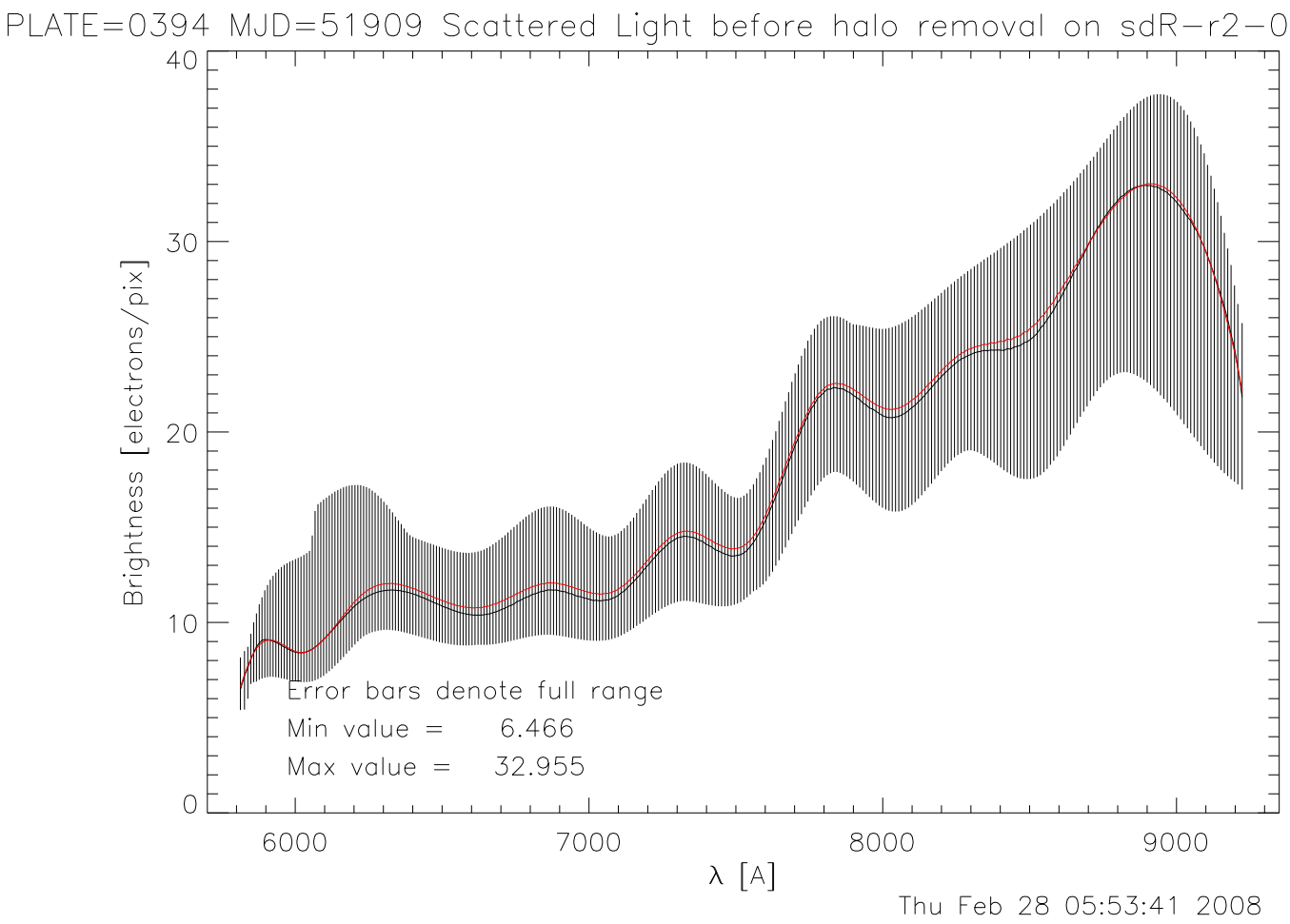

Number of sky fibers = 16
PLATE=0394 MJD=51909 sdR-r2-00007936.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

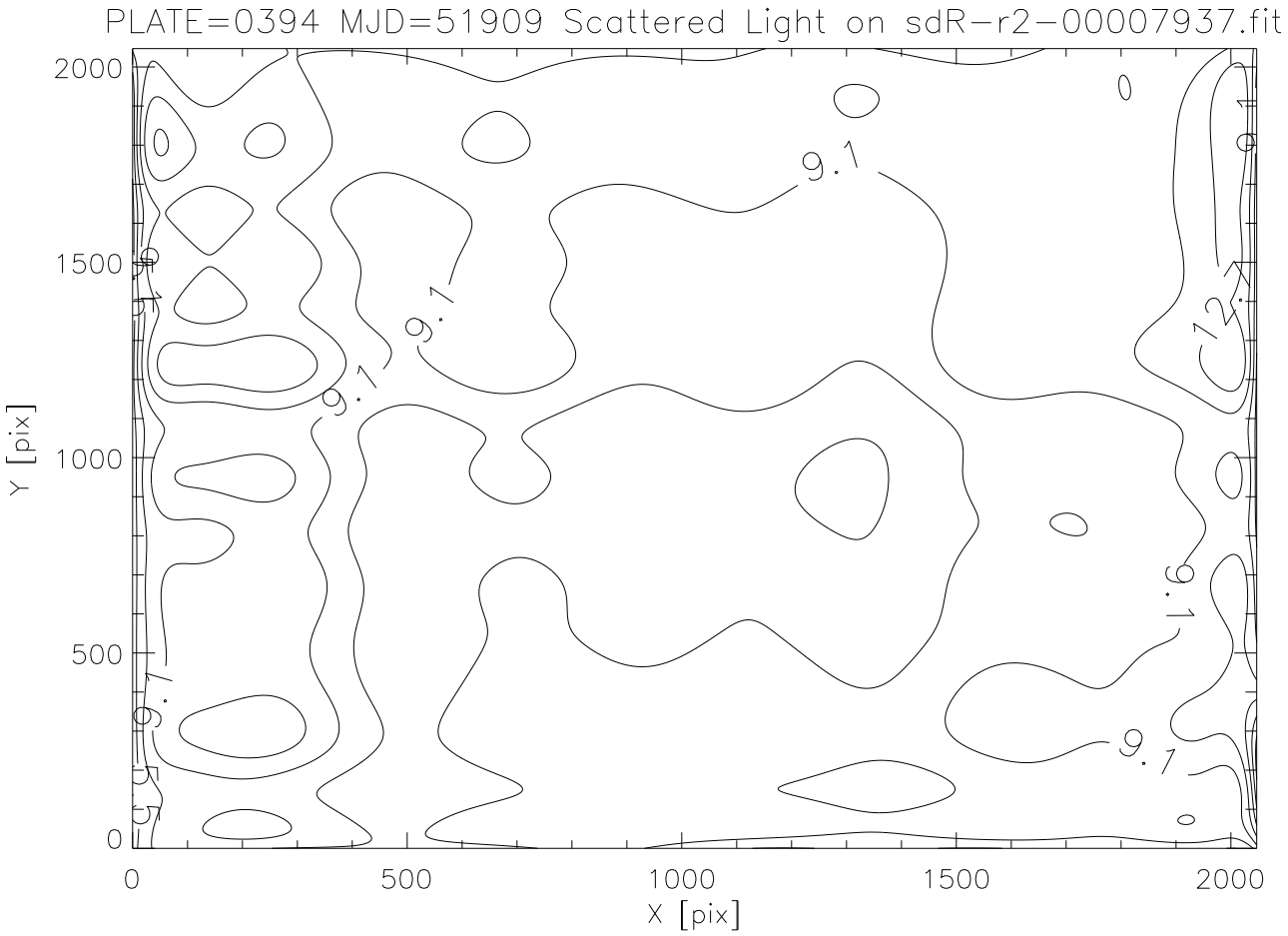

PLATE=0394 MJD=51909 sdR-r2-00007936.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.80 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

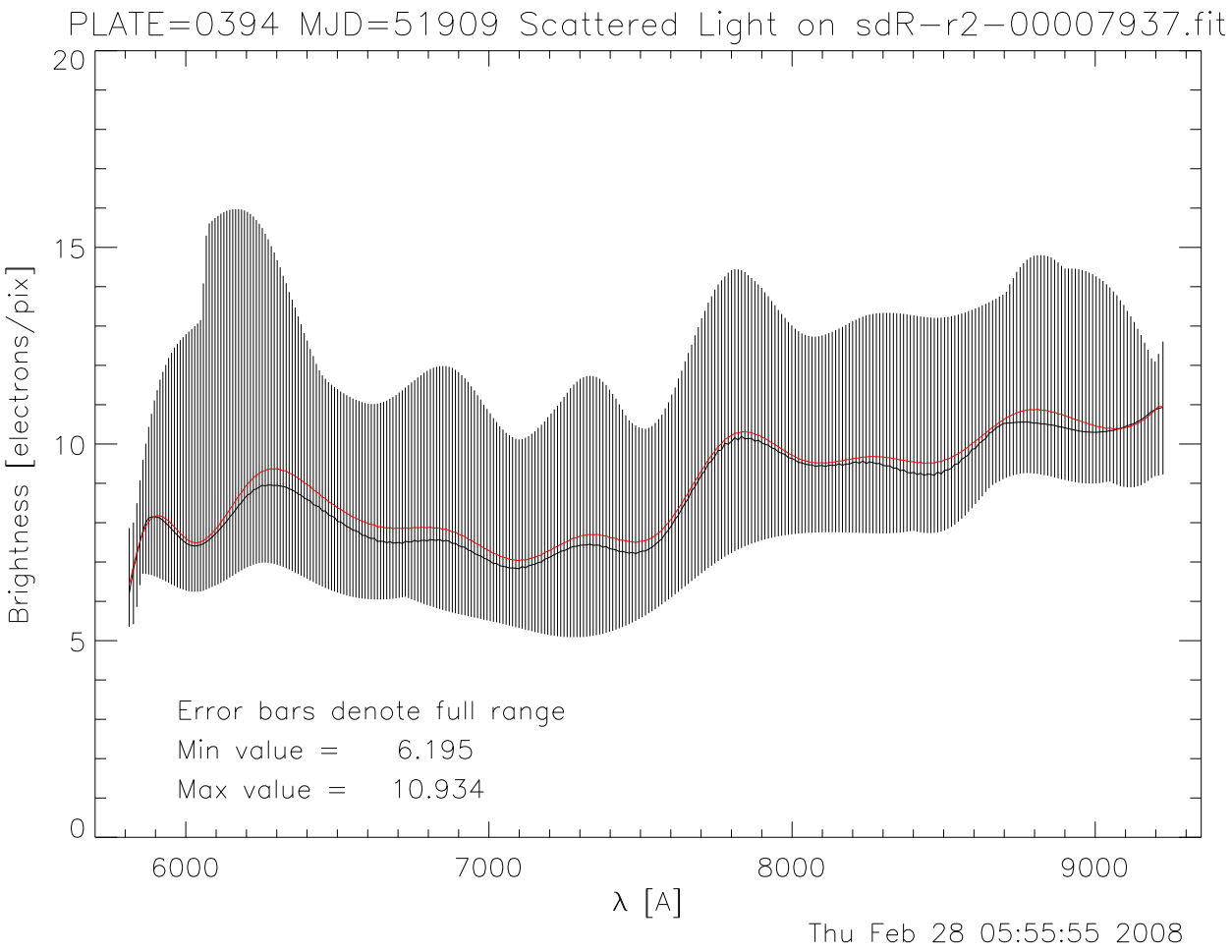

PLATE=0394 MJD=51909 sdR-r2-00007936.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.28 %
Fiber number
Focal Distance [mm]
Airmass

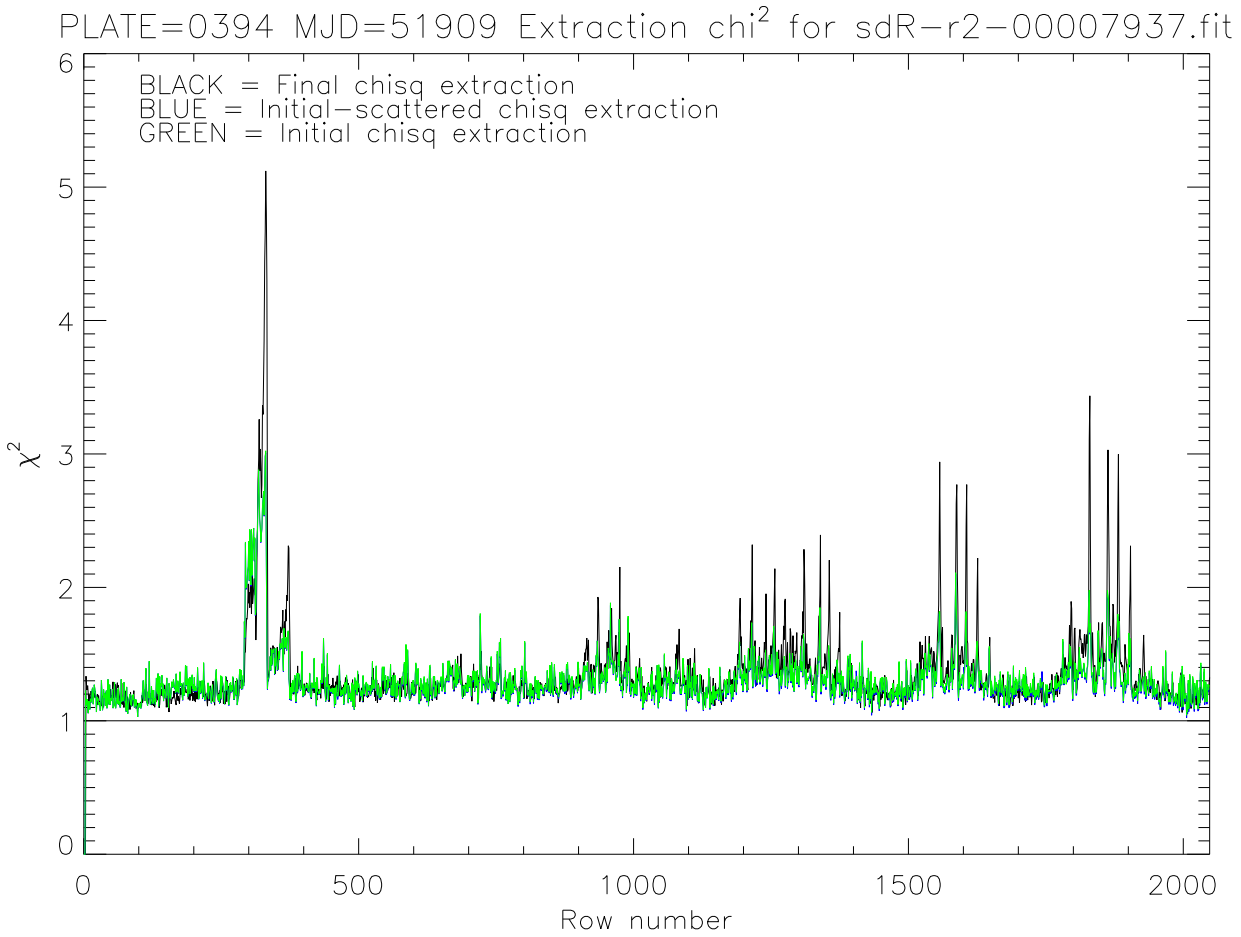

PLATE=0394 MJD=51909 Fiber−Flats for sdR−r2−00007941.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.541
Max value = 1.236
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Thu Feb 28 05:53:00 2008

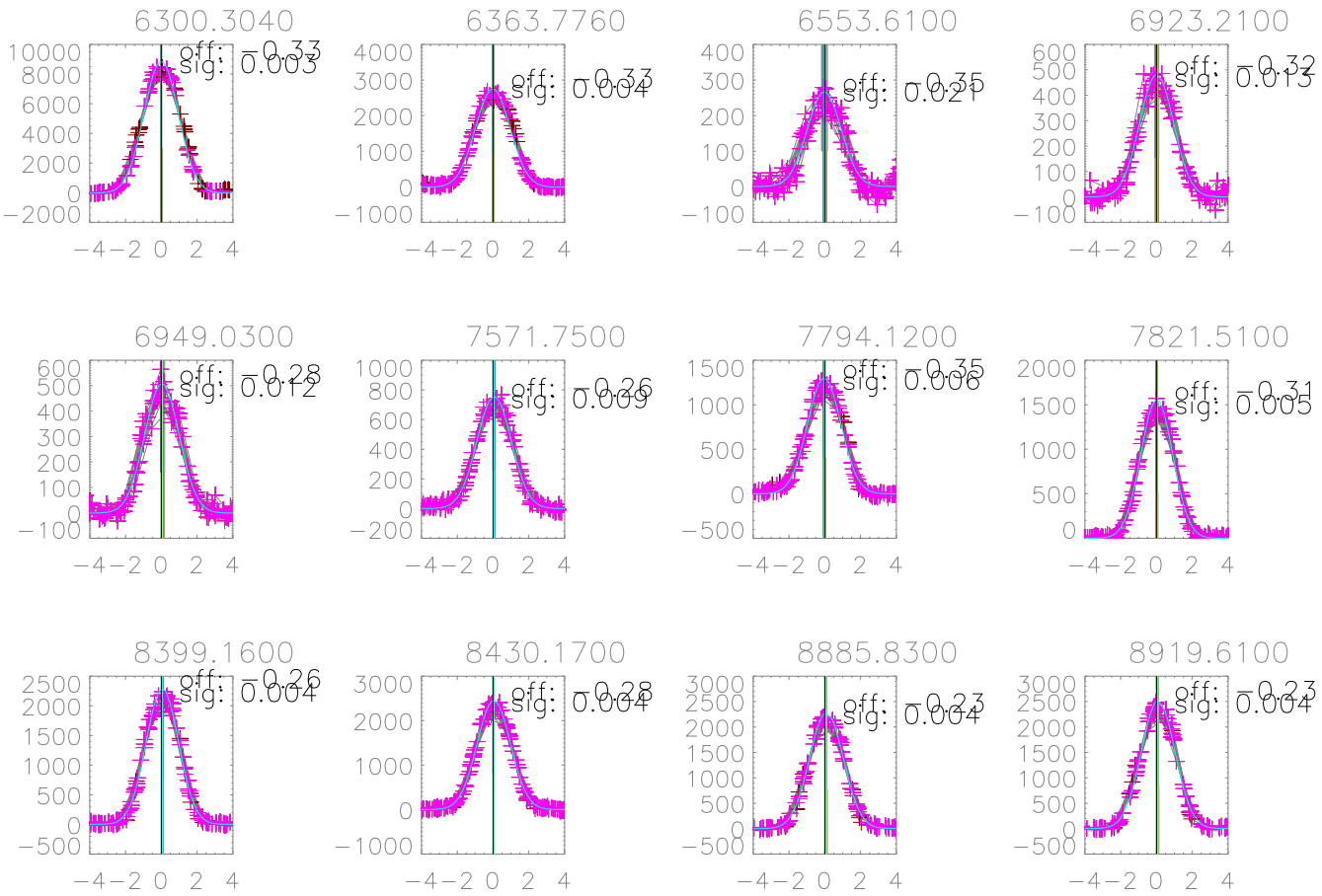

PLATE=0394 MJD=51909 Scattered Light before halo removal on sdR-r2-00007937.fi
25.5
32.7
25.5
18.2
10.9
10.9
10.9
10.9
10.9
Y [pix]
X [pix]
0
500
1000
1500
2000

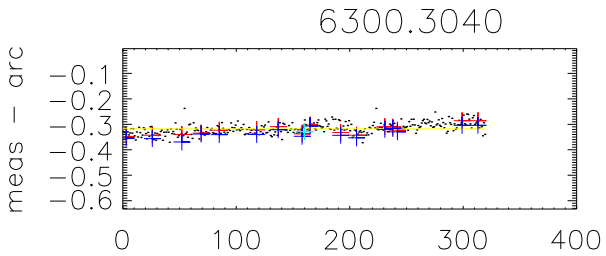

PLATE=0394 MJD=51909 Scattered Light before halo removal on sdR-r2-00007937.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.466
Max value = 32.955
Thu Feb 28 05:53:41 2008

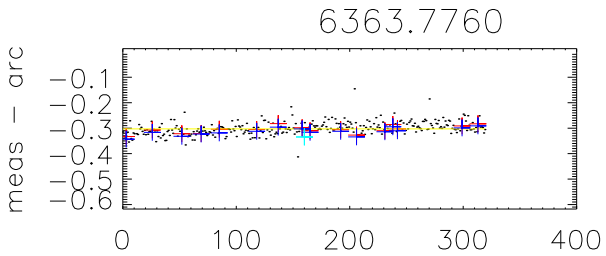

PLATE=0394 MJD=51909 Scattered Light on sdR-r2-00007937.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
9.1
12.7

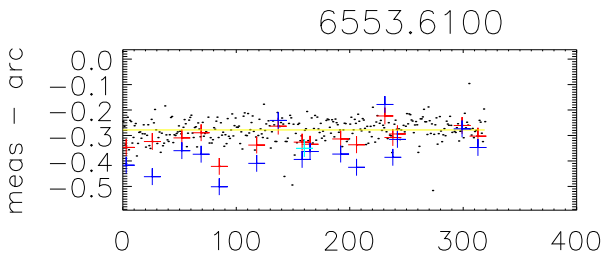

PLATE=0394 MJD=51909 Scattered Light on sdR-r2-00007937.fit
Brightness [electrons/pix]
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 6.195
Max value = 10.934
Thu Feb 28 05:55:55 2008

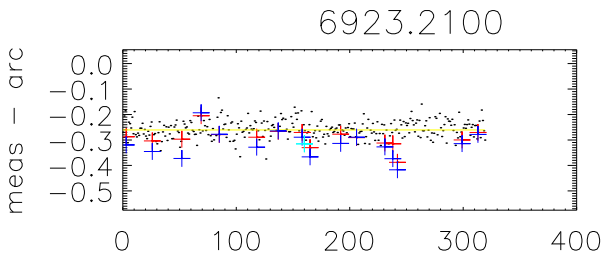

PLATE=0394 MJD=51909 Extraction chi^2 for sdR-r2-00007937.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

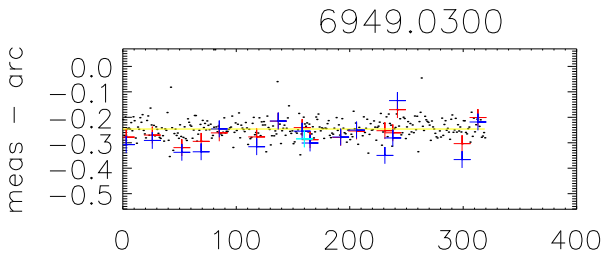

6300.3040
off: −0.33
sig: 0.003
6363.7760
off: −0.33
sig: 0.004
6553.6100
off: −0.35
sig: 0.021
6923.2100
off: −0.32
sig: 0.013
6949.0300
off: −0.28
sig: 0.012
7571.7500
off: −0.26
sig: 0.009
7794.1200
off: −0.35
sig: 0.006
7821.5100
off: −0.31
sig: 0.005
8399.1600
off: −0.26
sig: 0.004
8430.1700
off: −0.28
sig: 0.004
8885.8300
off: −0.23
sig: 0.004
8919.6100
off: −0.23
sig: 0.004

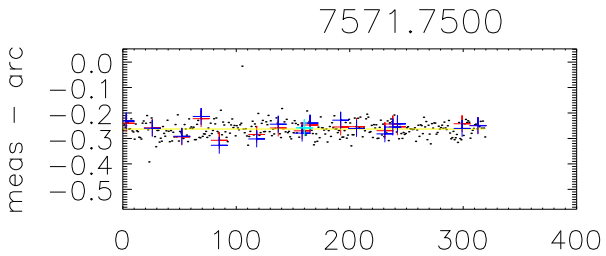

6300.3040
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

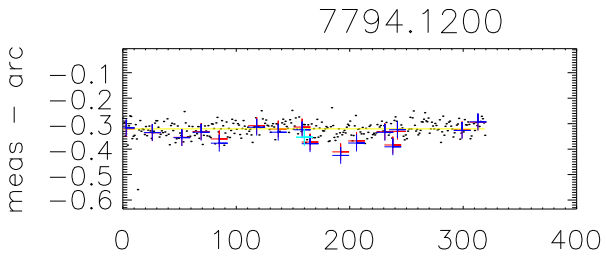

6363.7760
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

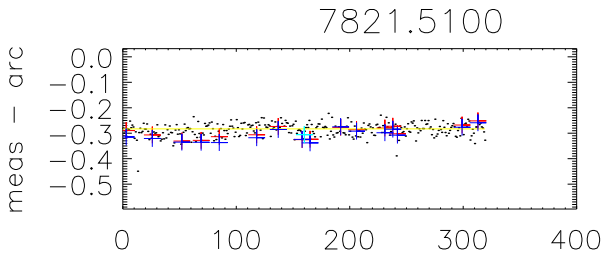

6553.6100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

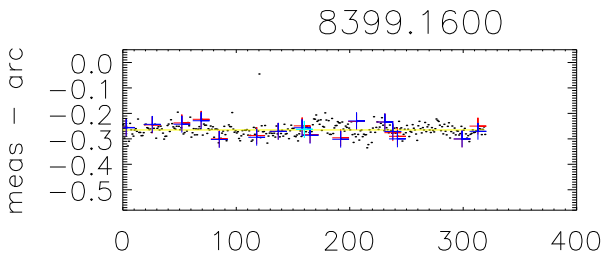

6923.2100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

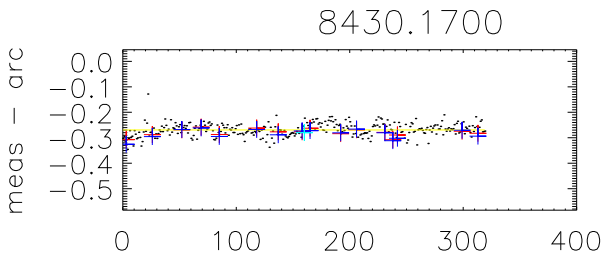

6949.0300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

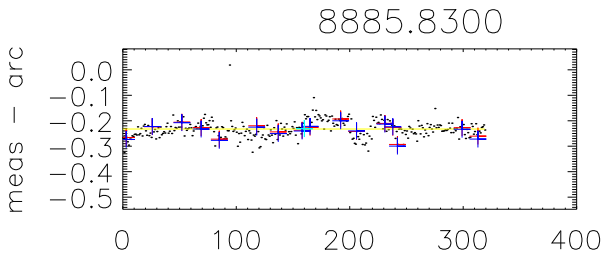

7571.7500
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

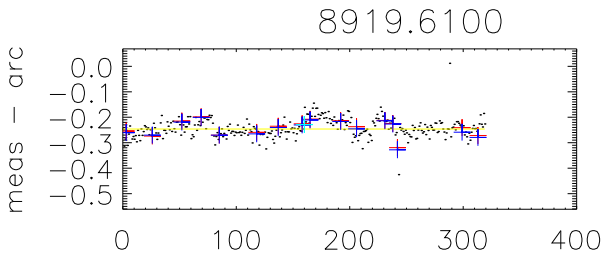

7794.1200
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

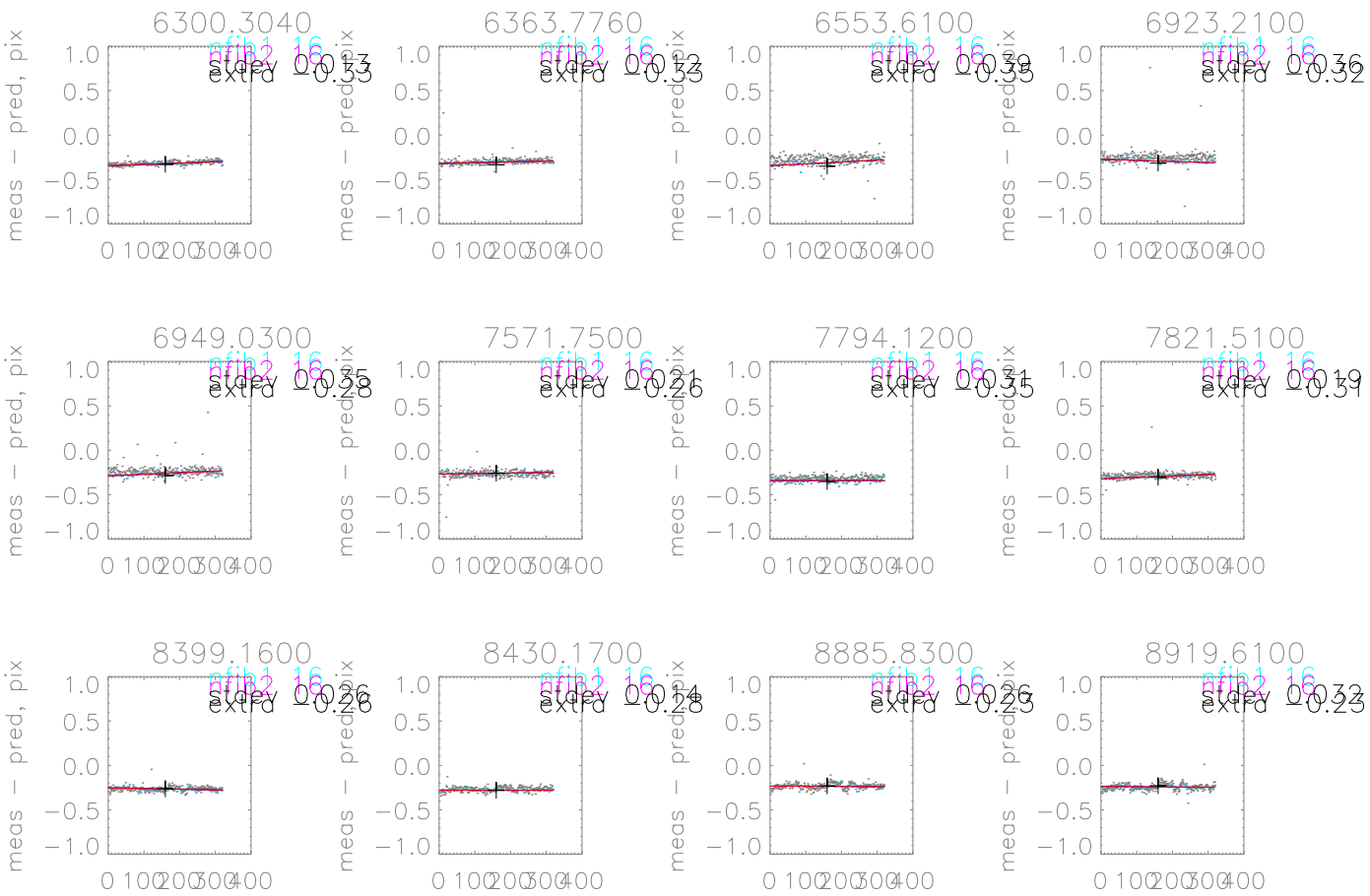

7821.5100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

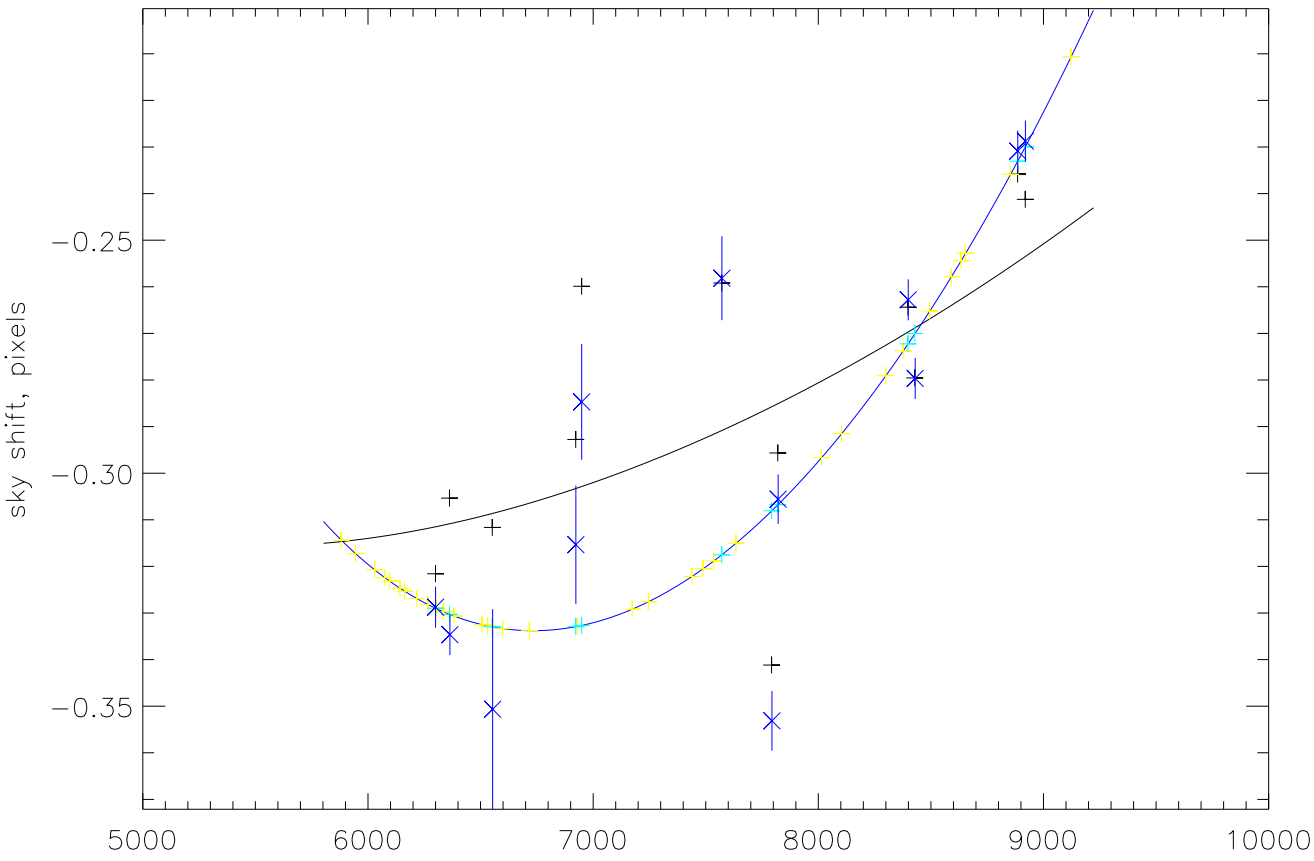

8399.1600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

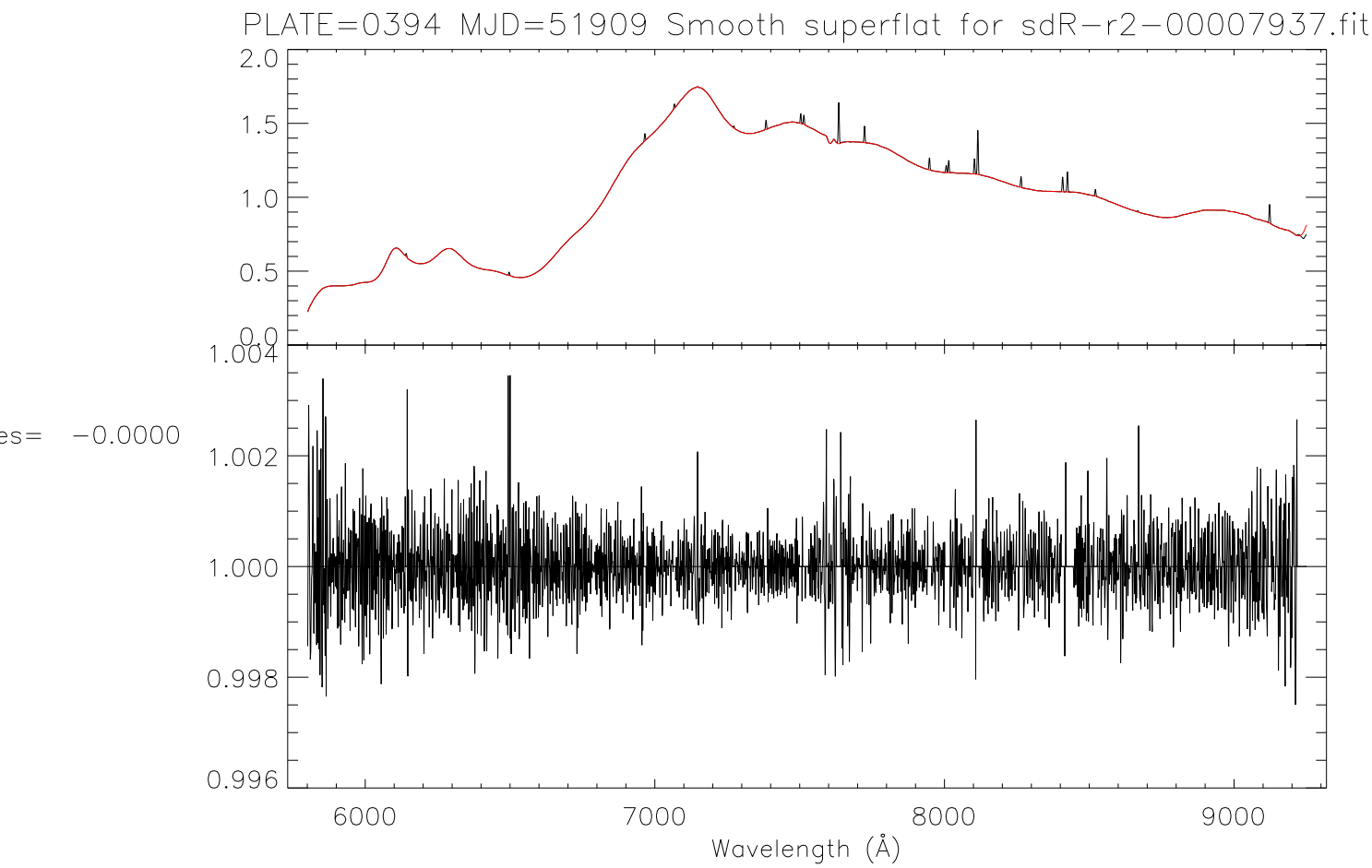

8430.1700
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

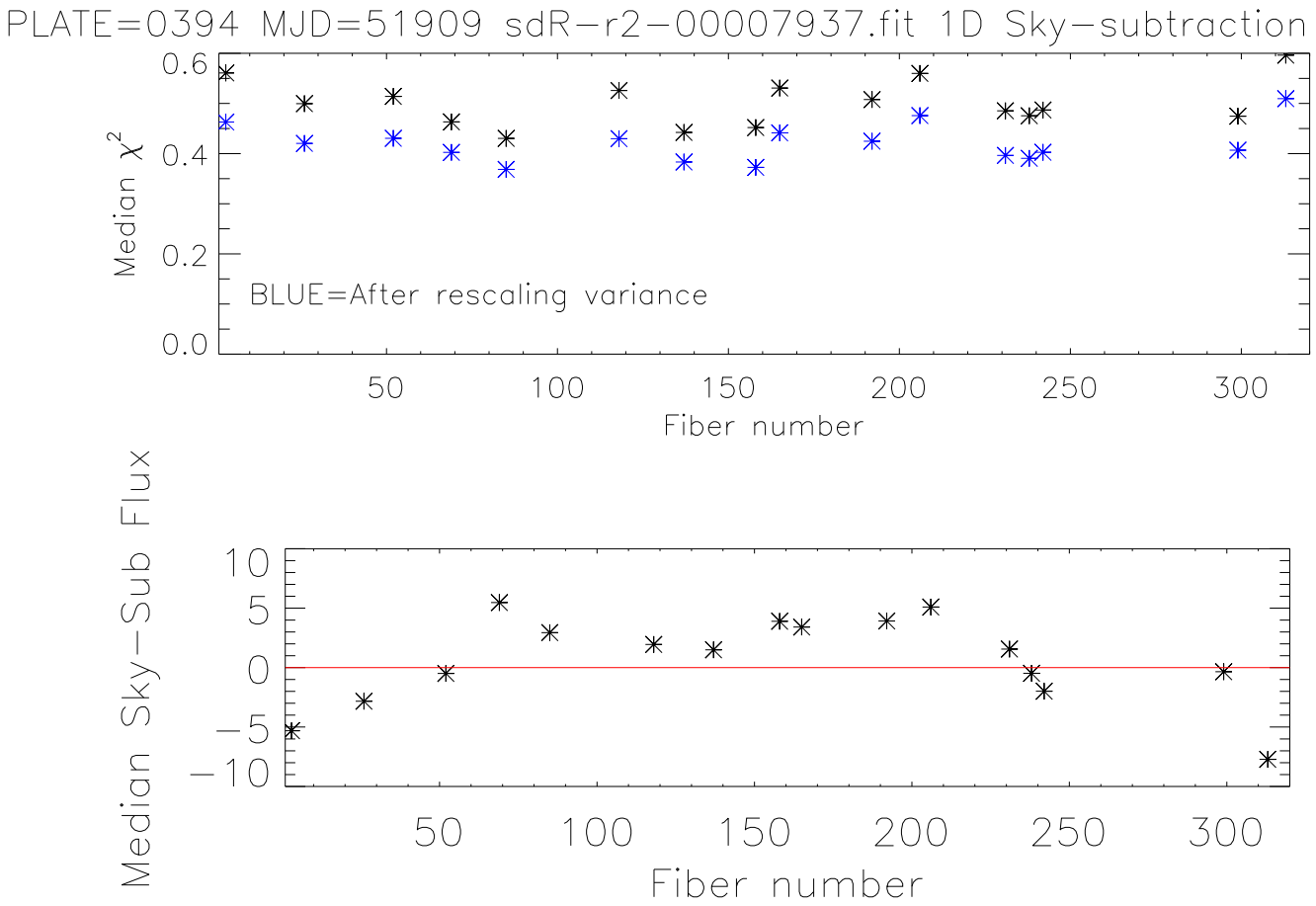

8885.8300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

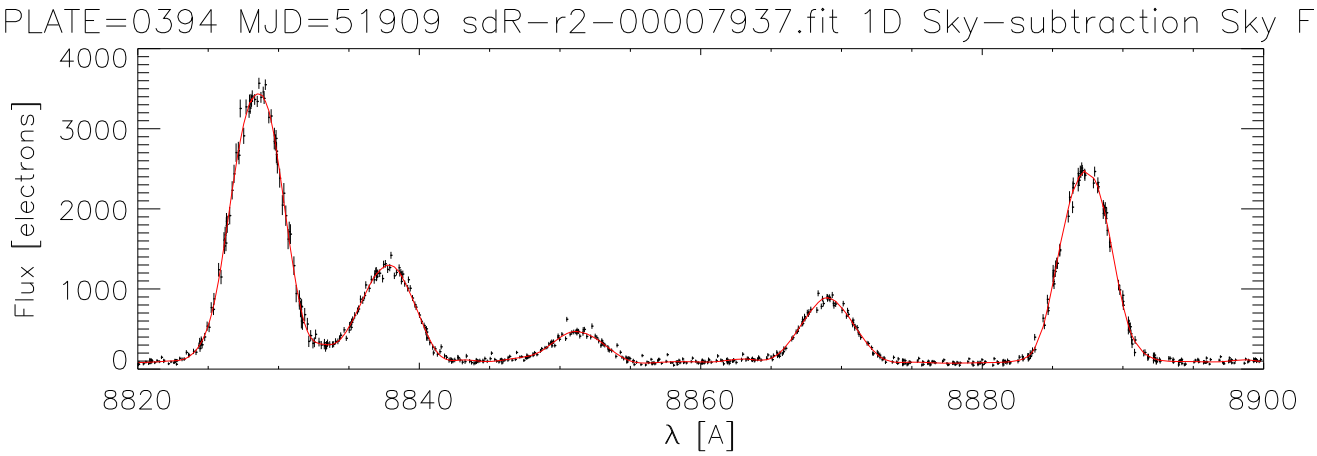

8919.6100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

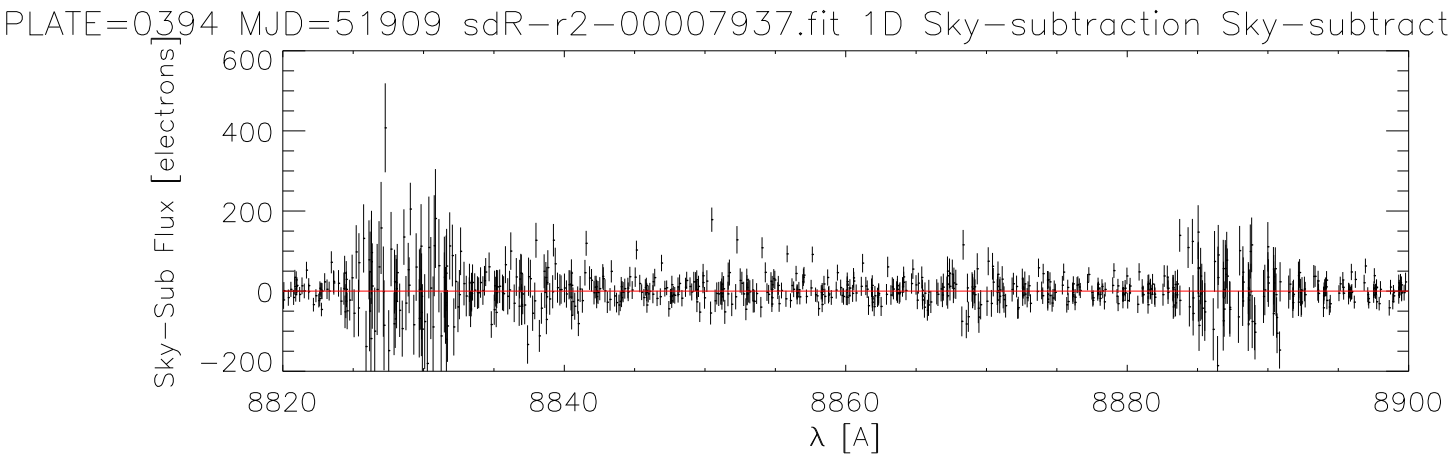

6300.3040
6363.7760
6553.6100
6923.2100
6949.0300
7571.7500
7794.1200
7821.5100
8399.1600
8430.1700
8885.8300
8919.6100
meas − pred, pix
mfhs2 16
stdev 0.33
extra 0.33
stdev 0.26
extra 0.28
stdev 0.24
extra 0.26
stdev 0.31
extra 0.35
stdev 0.19
extra 0.31
stdev 0.26
extra 0.26
stdev 0.24
extra 0.28
stdev 0.26
extra 0.23
stdev 0.32
extra 0.23

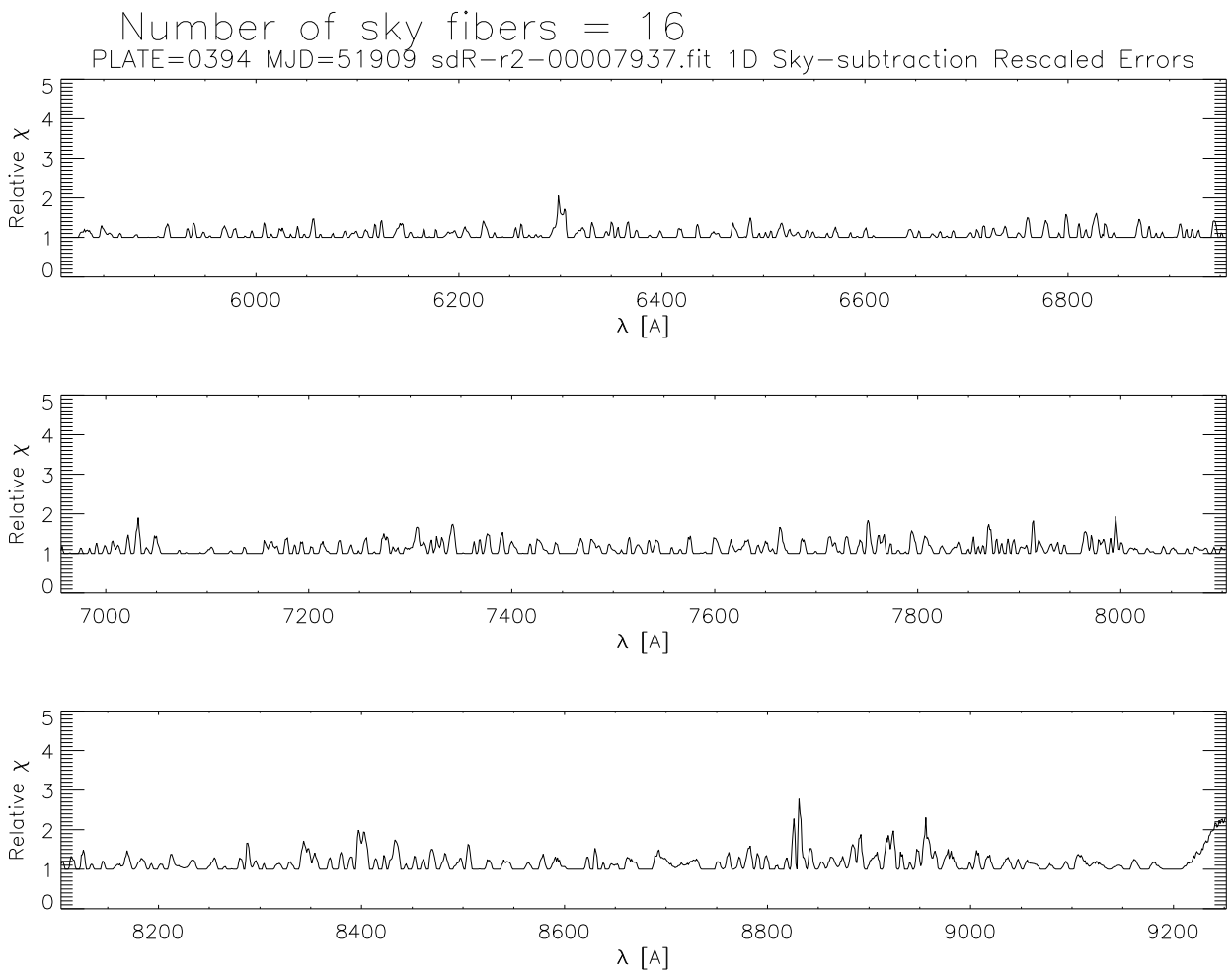

sky shift, pixels
−0.25
−0.30
−0.35
5000
6000
7000
8000
9000
10000

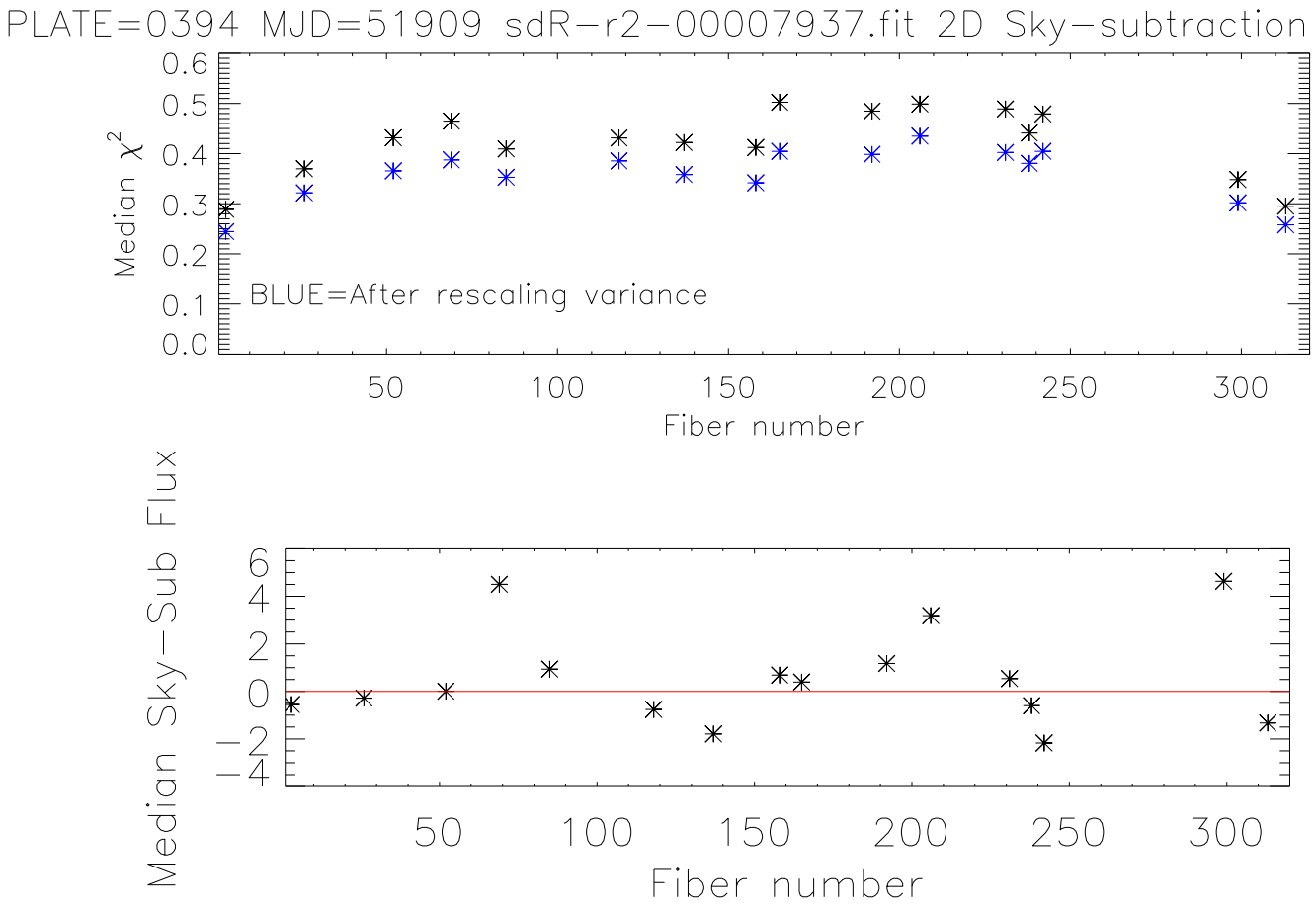

PLATE=0394 MJD=51909 Smooth superflat for sdR-r2-00007937.fit
2.0
1.5
1.0
0.5
0.0
1.004
1.002
1.000
0.998
0.996
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

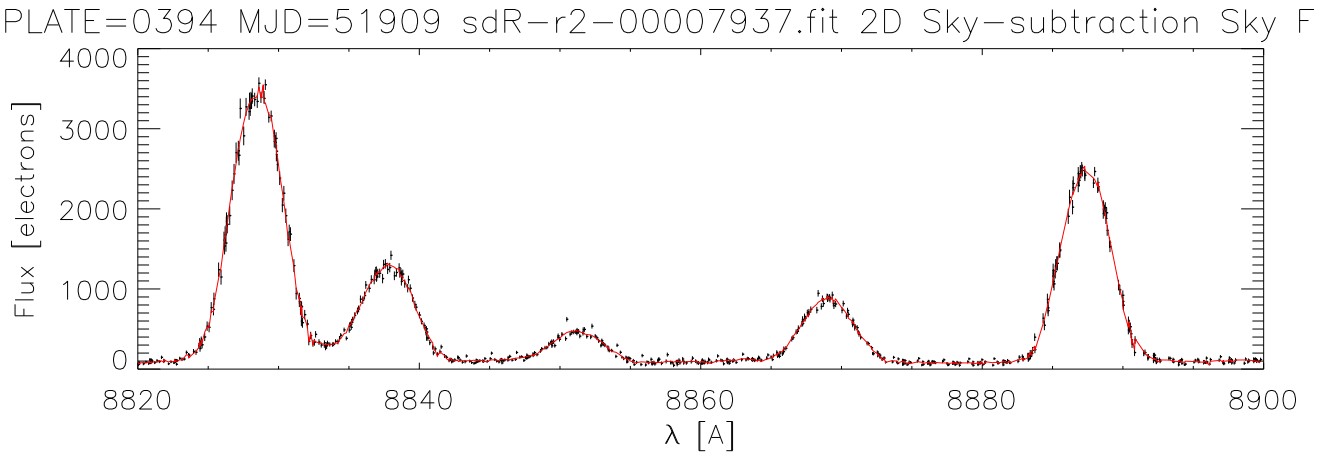

PLATE=0394 MJD=51909 sdR-r2-00007937.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

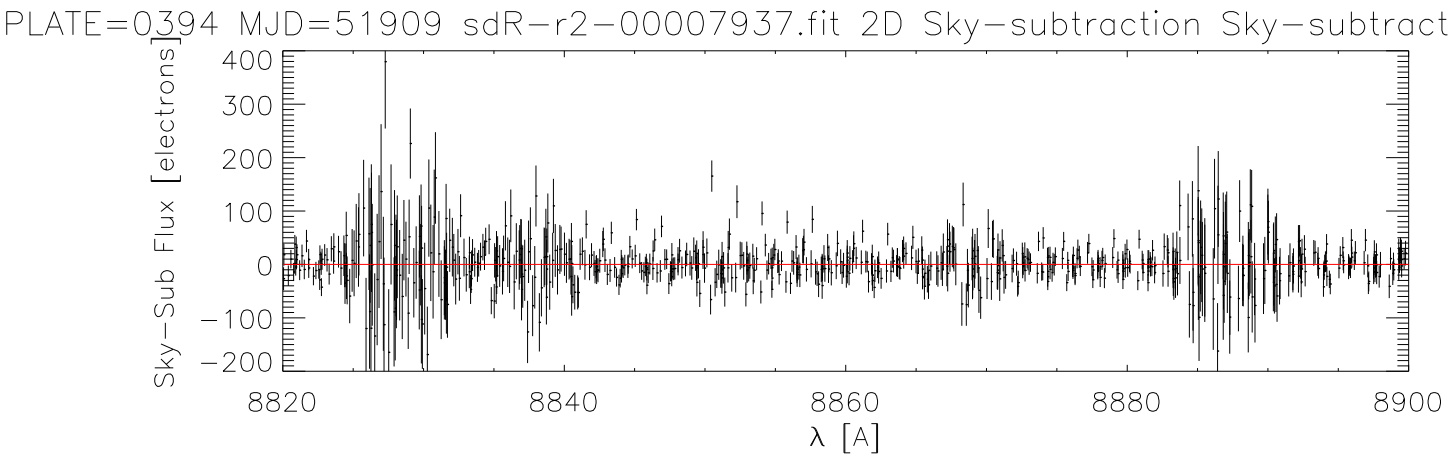

PLATE=0394 MJD=51909 sdR-r2-00007937.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

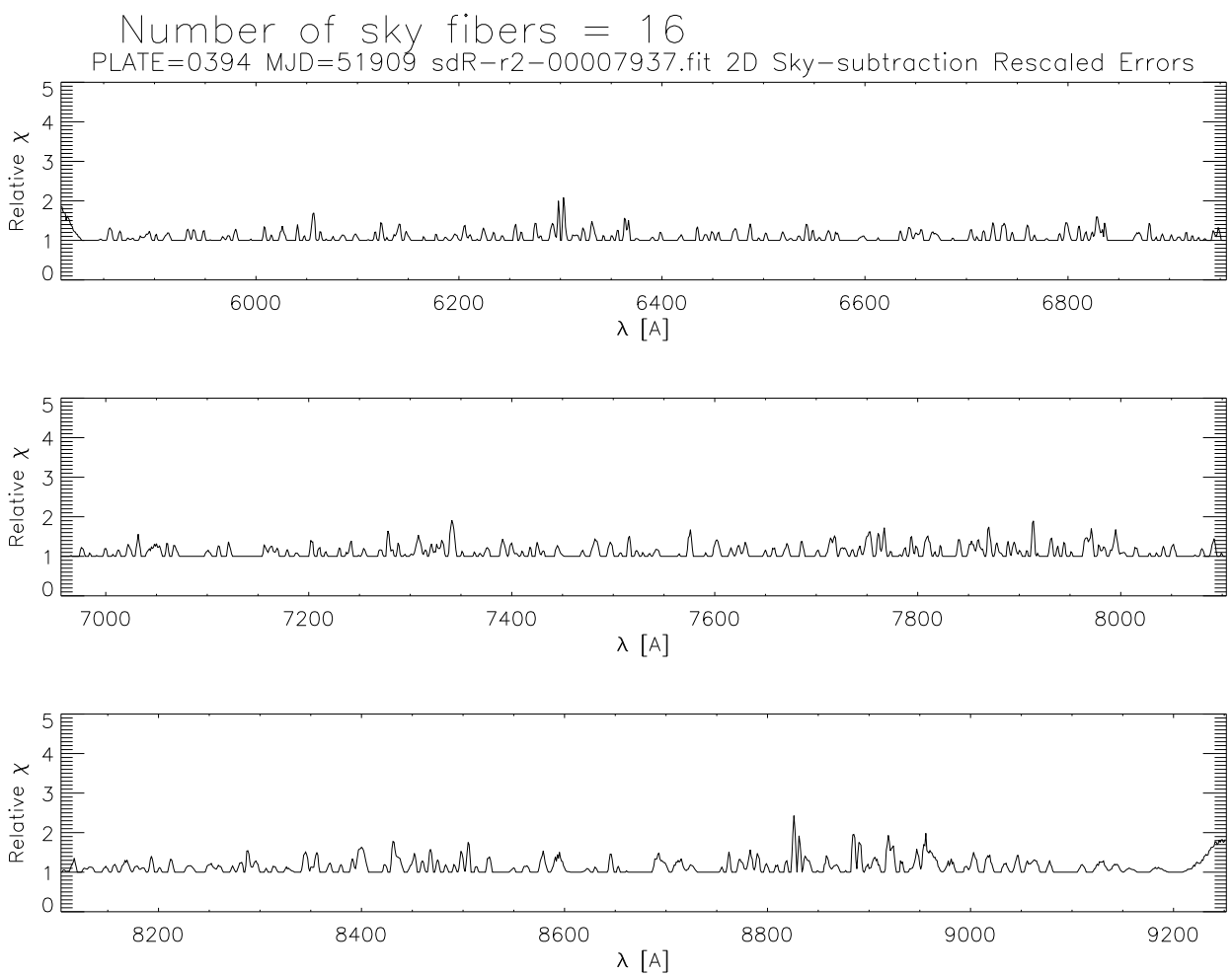

PLATE=0394 MJD=51909 sdR-r2-00007937.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

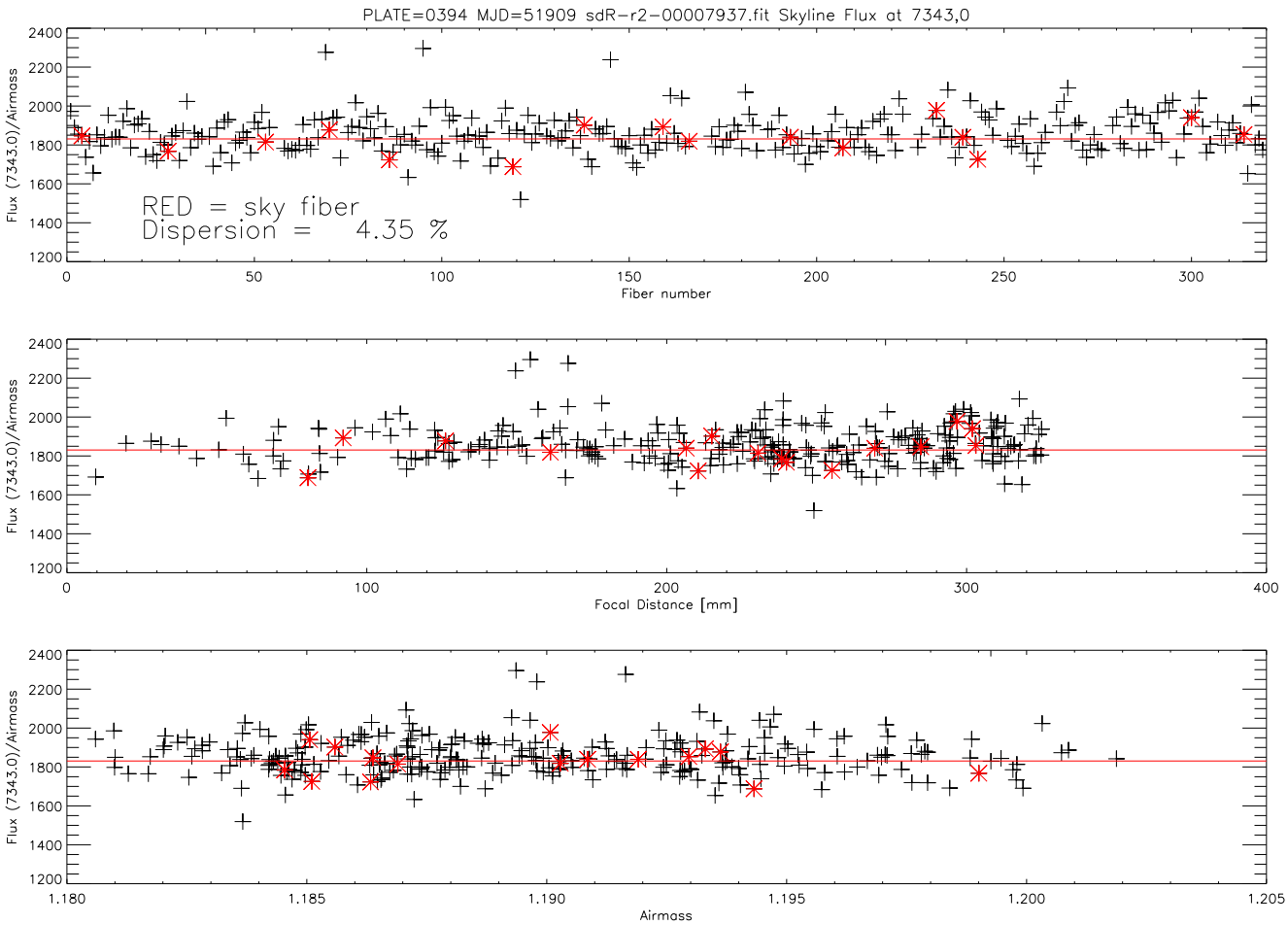

Number of sky fibers = 16
PLATE=0394 MJD=51909 sdR-r2-00007937.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

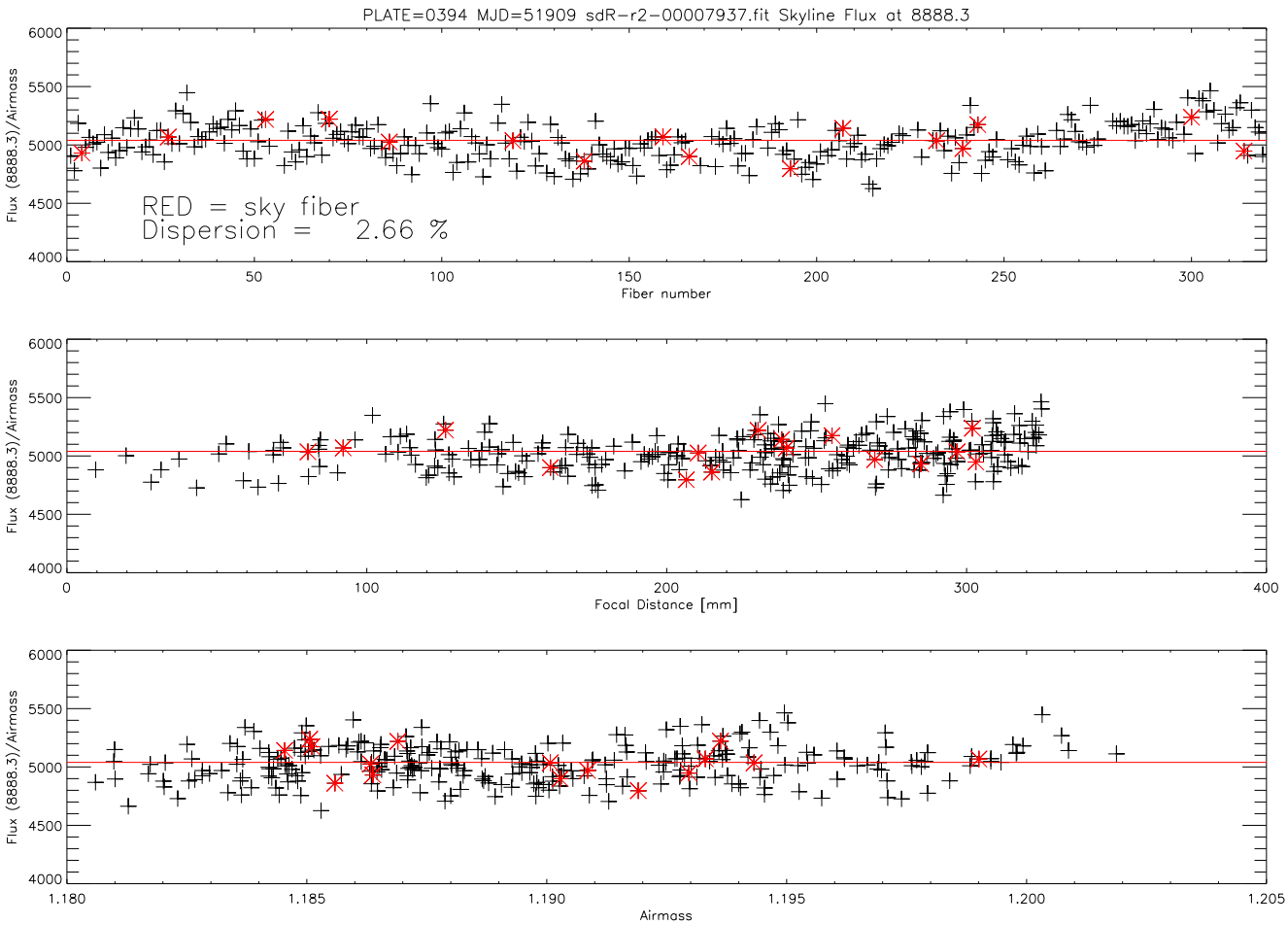

PLATE=0394 MJD=51909 sdR-r2-00007937.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

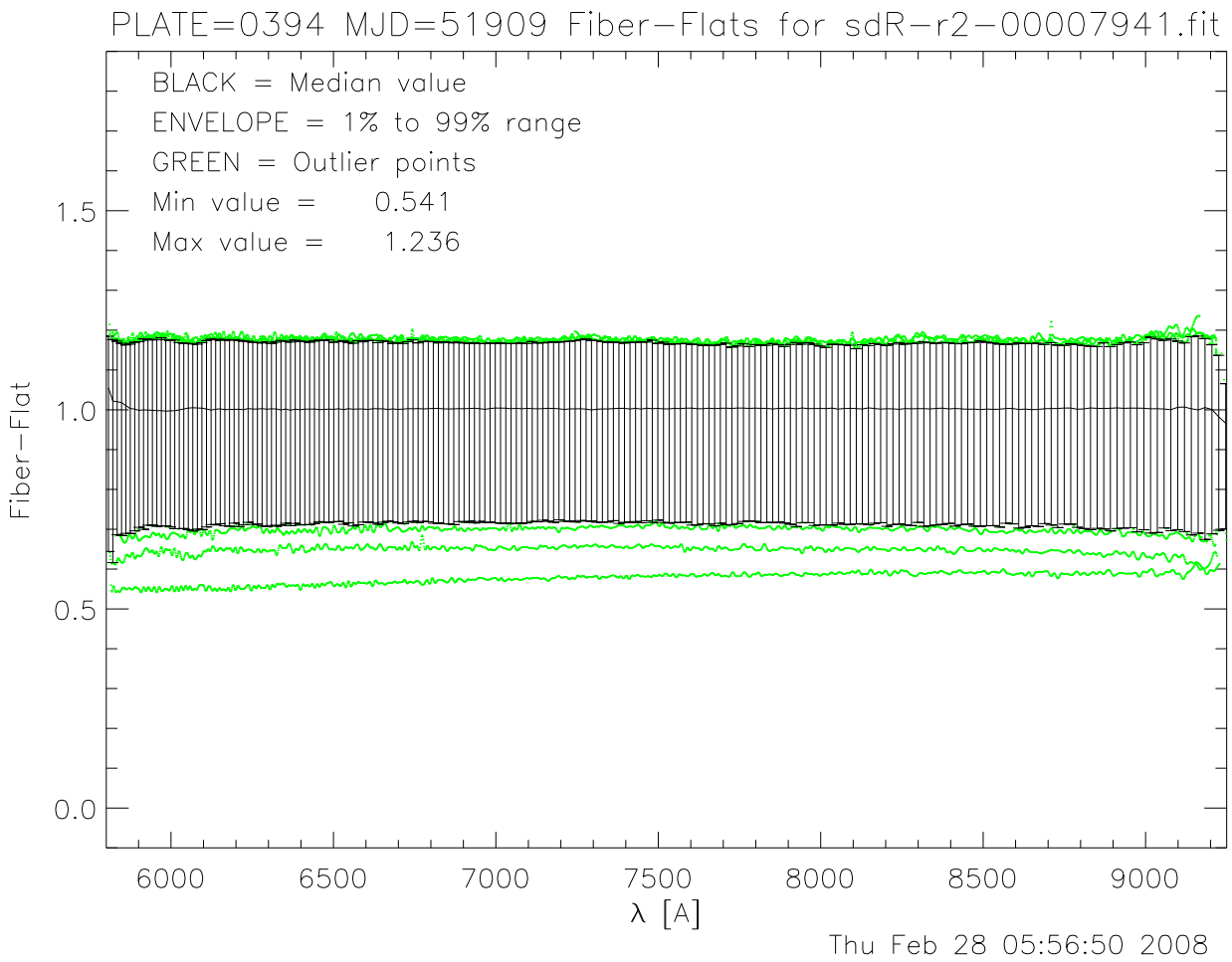

PLATE=0394 MJD=51909 sdR-r2-00007937.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

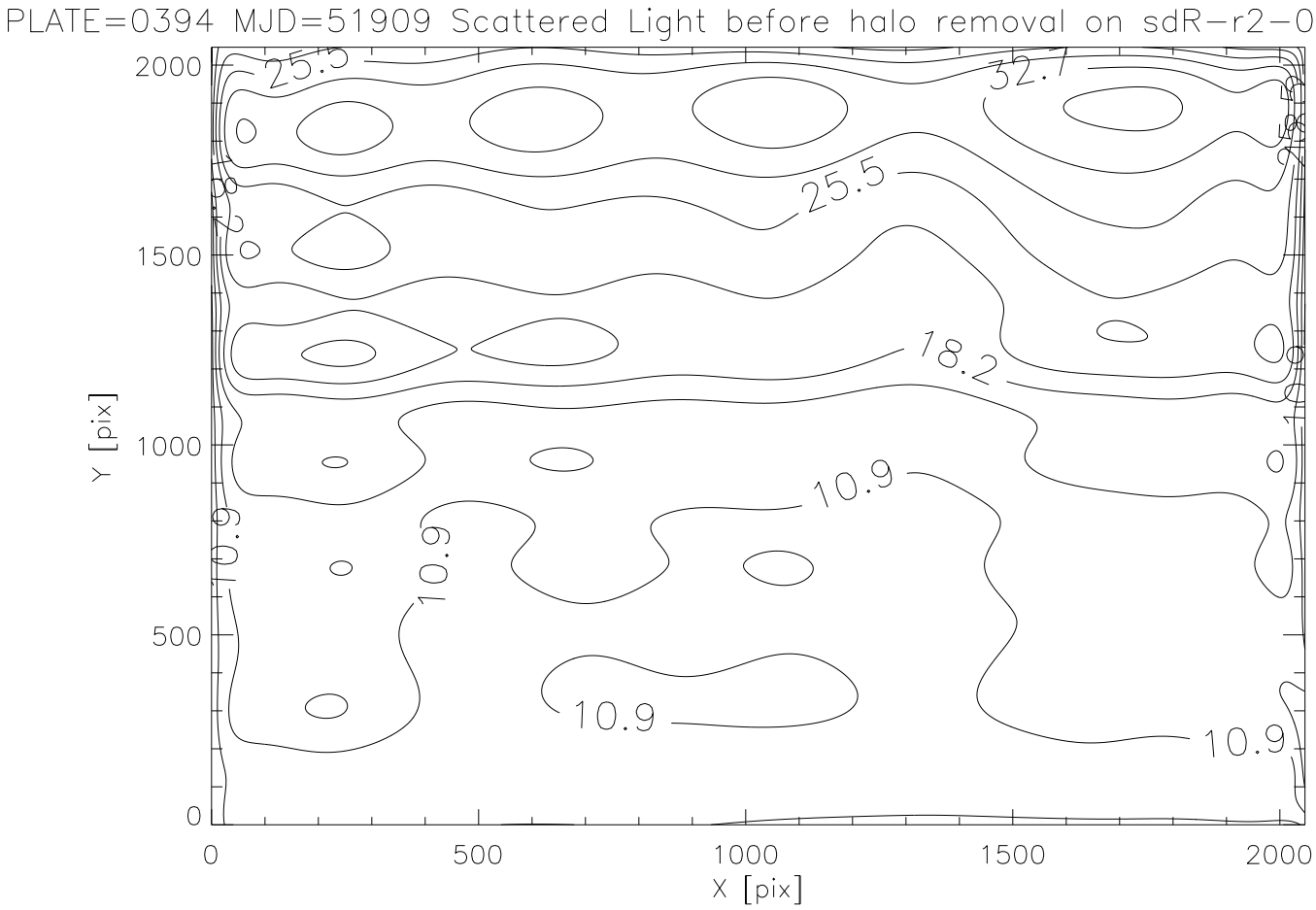

PLATE=0394 MJD=51909 sdR-r2-00007937.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

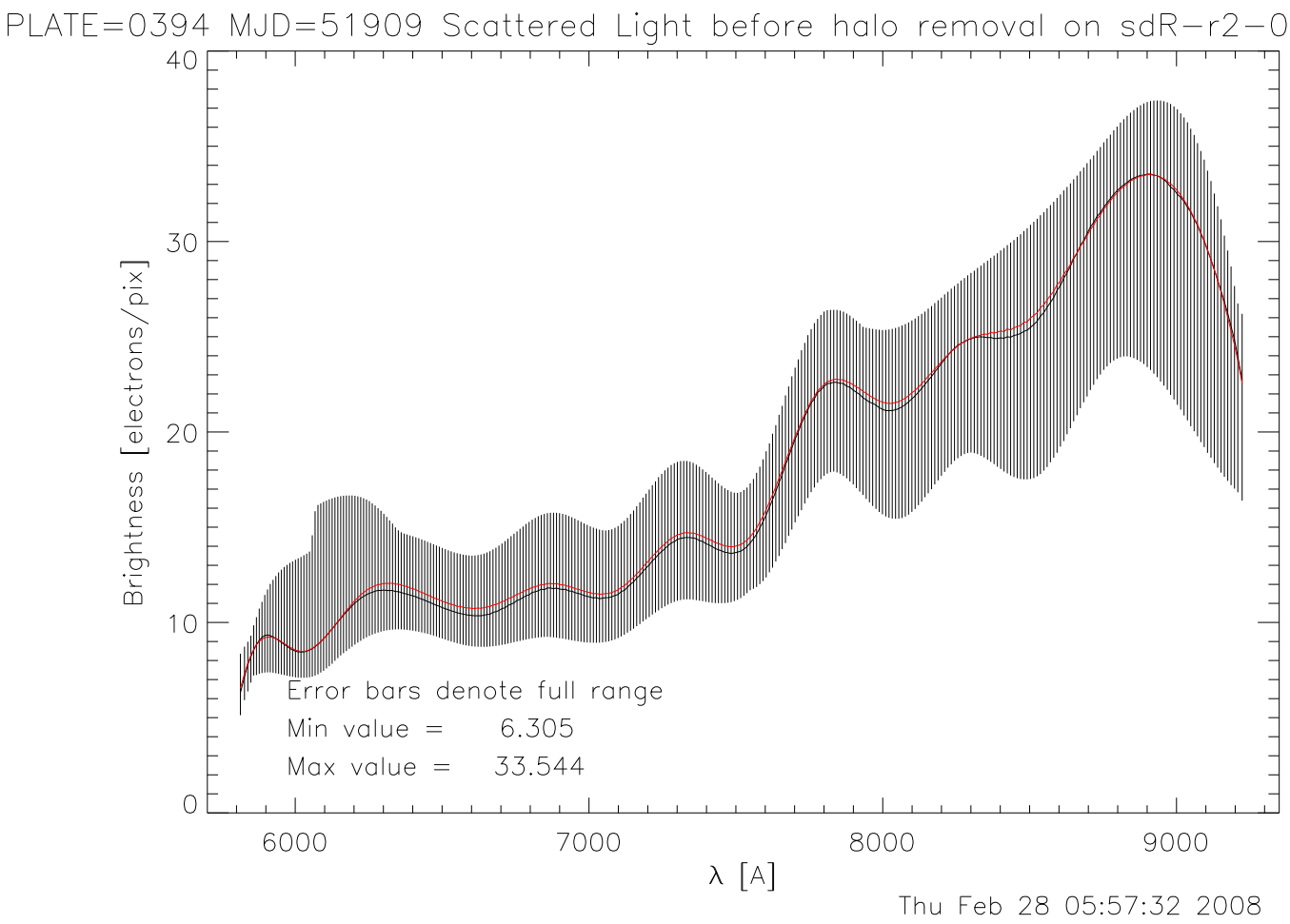

Number of sky fibers = 16
PLATE=0394 MJD=51909 sdR-r2-00007937.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

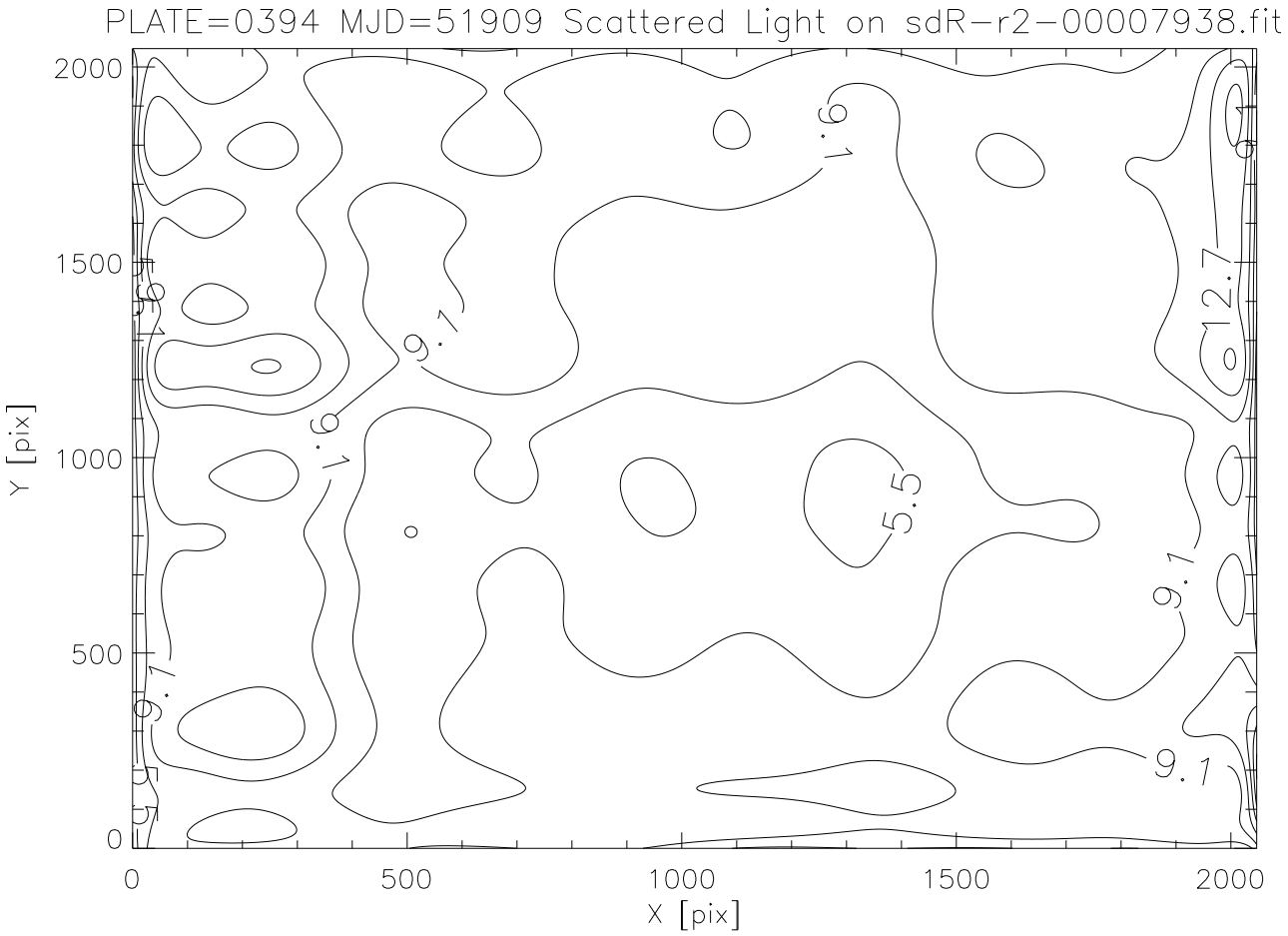

PLATE=0394 MJD=51909 sdR-r2-00007937.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 4.35 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

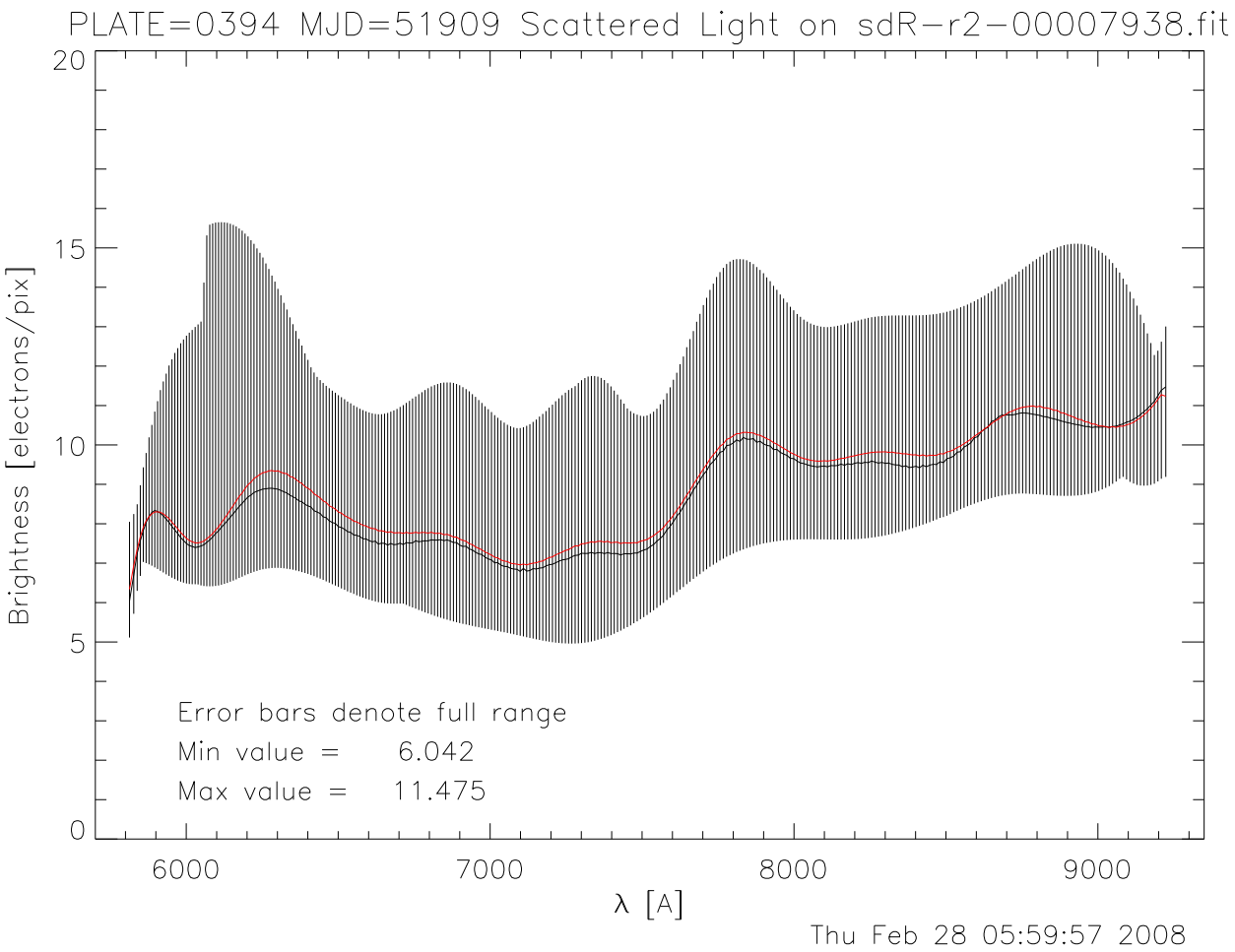

PLATE=0394 MJD=51909 sdR-r2-00007937.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.66 %
Fiber number
Focal Distance [mm]
Airmass

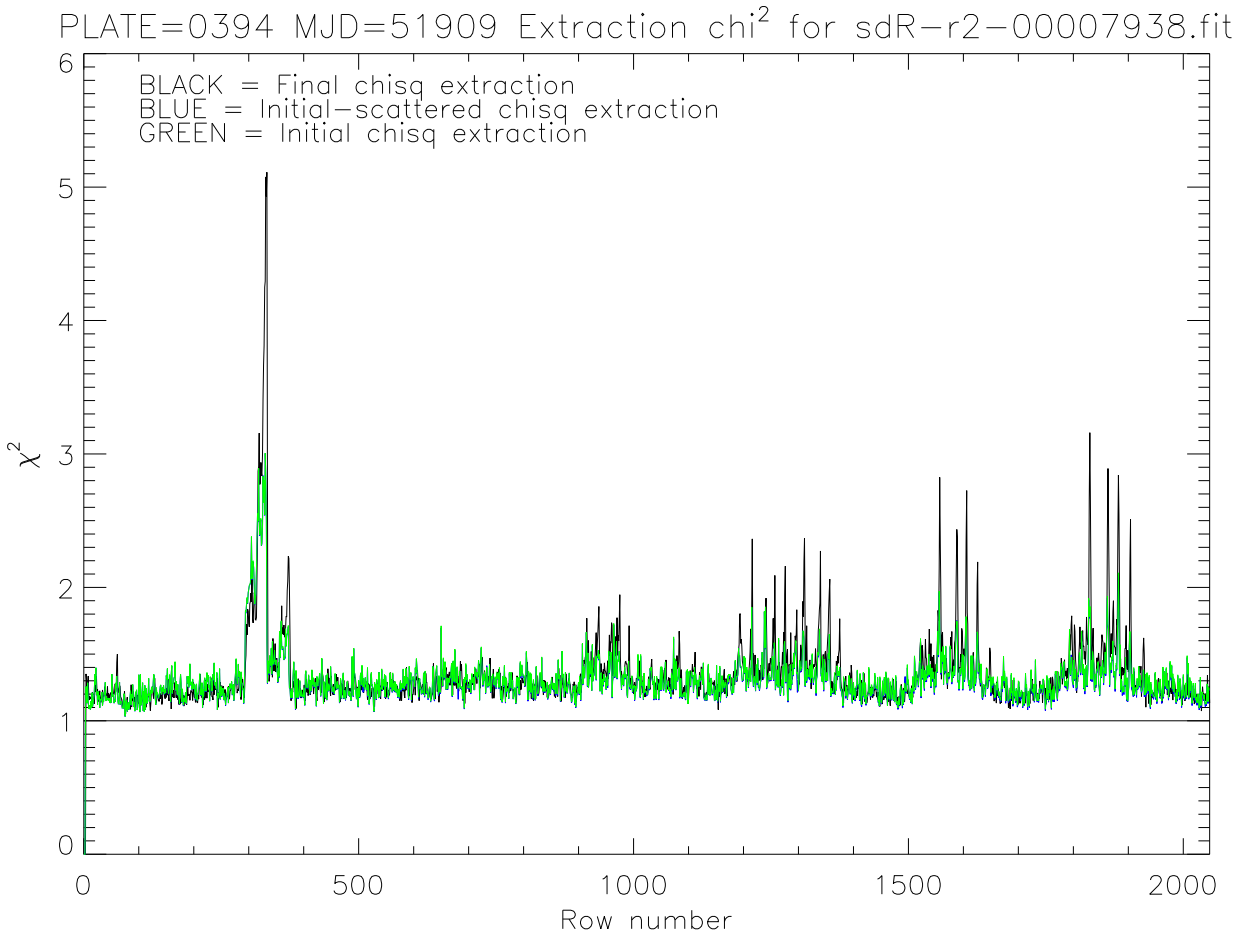

PLATE=0394 MJD=51909 Fiber−Flats for sdR−r2−00007941.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.541
Max value = 1.236
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Thu Feb 28 05:56:50 2008

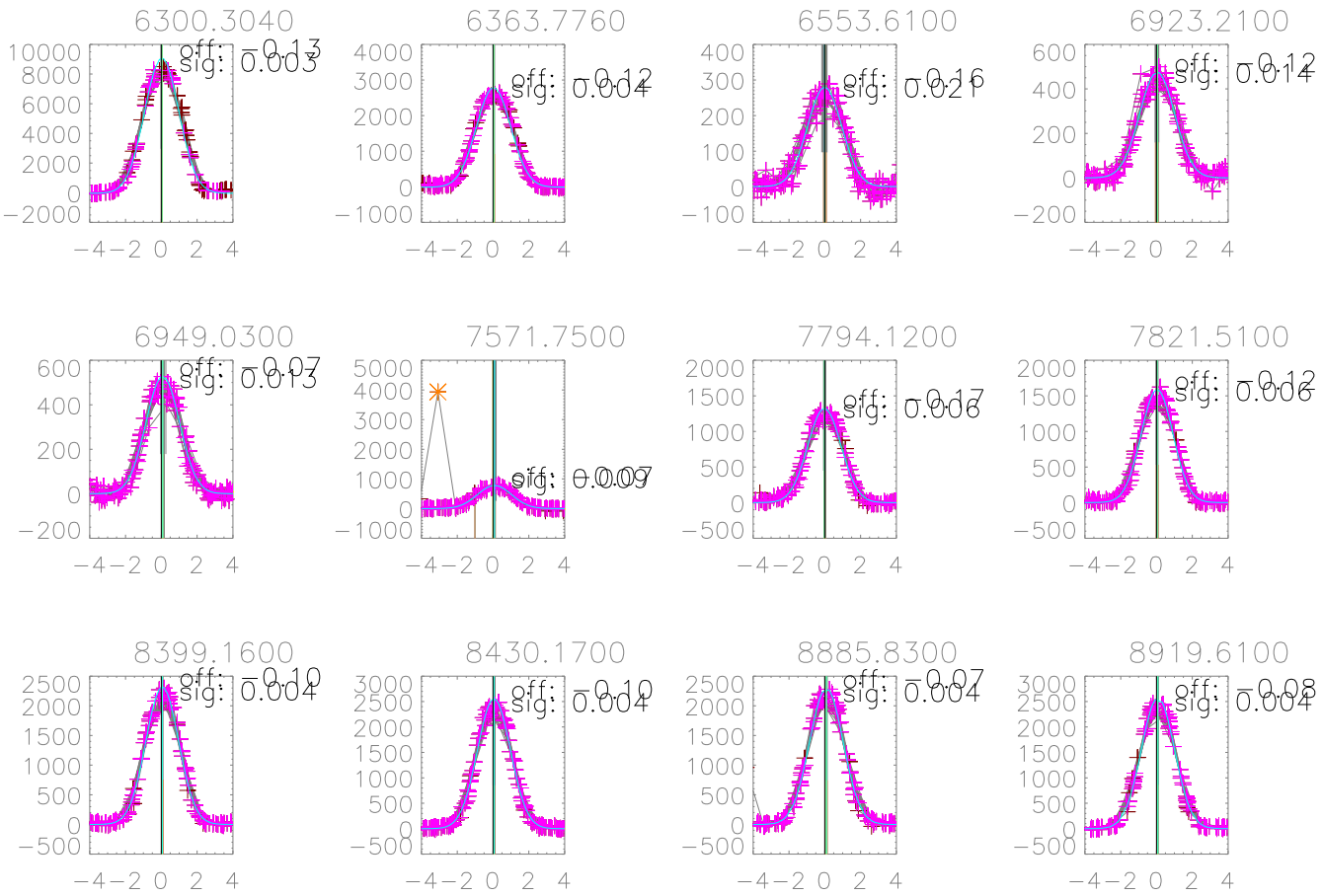

PLATE=0394 MJD=51909 Scattered Light before halo removal on sdR-r2-00007938.fi
25.5
32.7
25.5
18.2
10.9
10.9
10.9
10.9
Y [pix]
X [pix]
0
500
1000
1500
2000

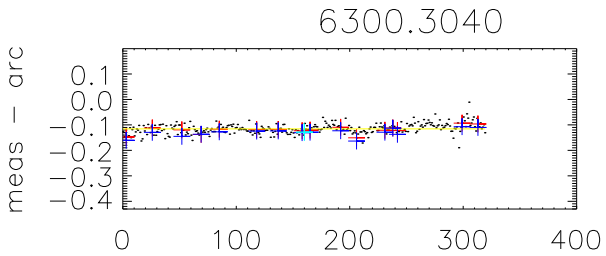

PLATE=0394 MJD=51909 Scattered Light before halo removal on sdR-r2-00007938.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.305
Max value = 33.544
Thu Feb 28 05:57:32 2008

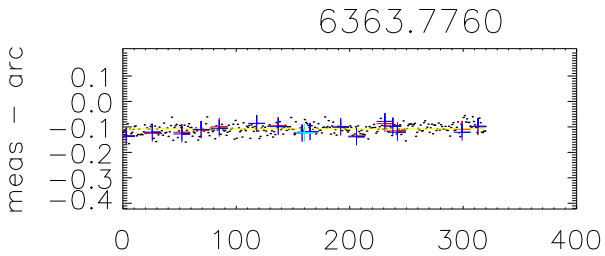

PLATE=0394 MJD=51909 Scattered Light on sdR-r2-00007938.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
9.1
5.5
12.7

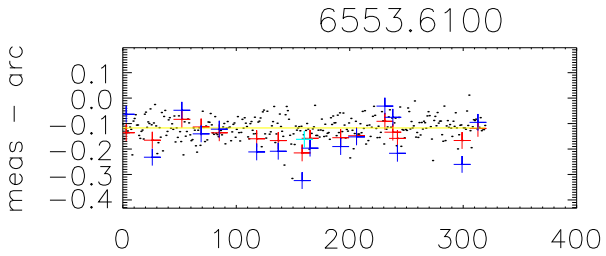

PLATE=0394 MJD=51909 Scattered Light on sdR-r2-00007938.fit
Brightness [electrons/pix]
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 6.042
Max value = 11.475
Thu Feb 28 05:59:57 2008

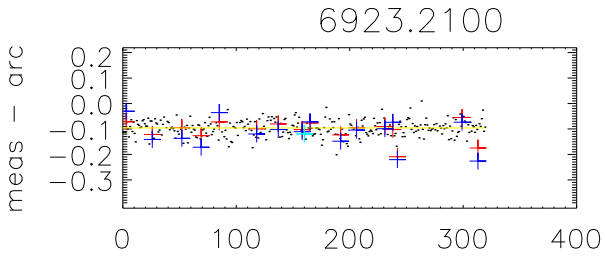

PLATE=0394 MJD=51909 Extraction chi^2 for sdR−r2−00007938.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

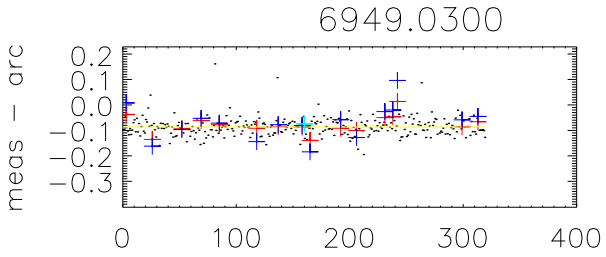

6300.3040
off: −0.13
sig: 0.003
6363.7760
off: −0.12
sig: 0.004
6553.6100
off: −0.16
sig: 0.021
6923.2100
off: −0.12
sig: 0.014
6949.0300
off: −0.07
sig: 0.013
7571.7500
off: 0.09
sig: 0.007
7794.1200
off: −0.17
sig: 0.006
7821.5100
off: −0.12
sig: 0.006
8399.1600
off: −0.10
sig: 0.004
8430.1700
off: −0.10
sig: 0.004
8885.8300
off: −0.07
sig: 0.004
8919.6100
off: −0.08
sig: 0.004

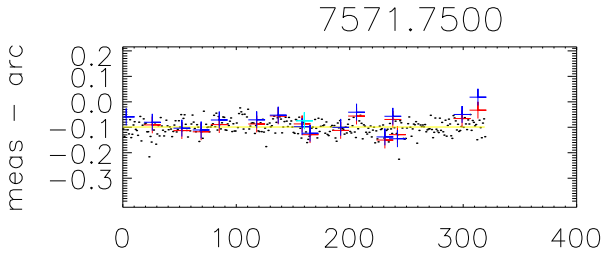

6300.3040
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

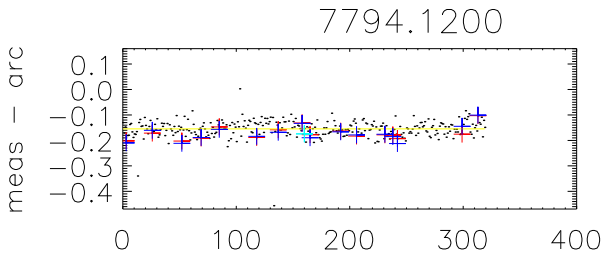

6363.7760
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

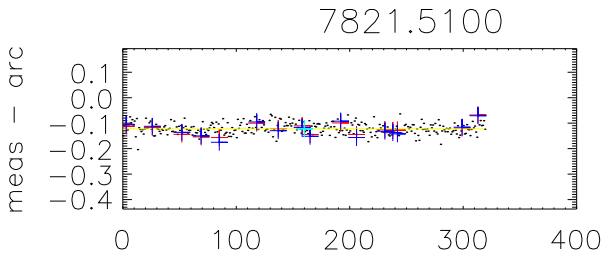

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

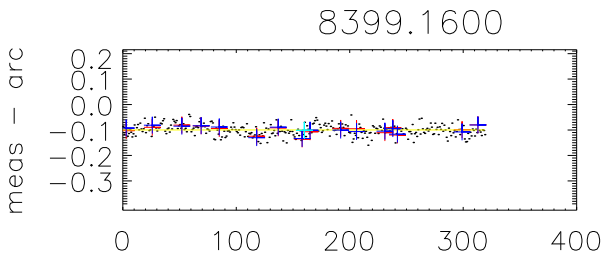

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

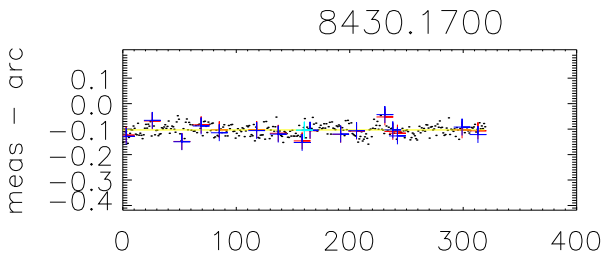

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

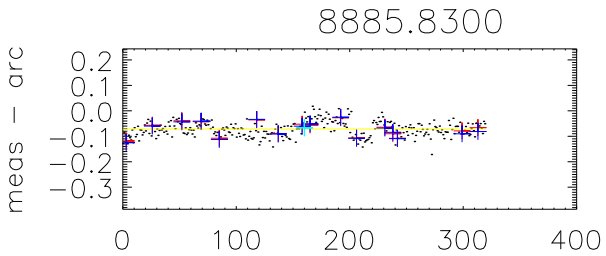

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

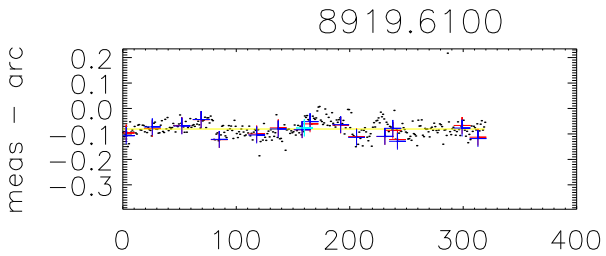

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

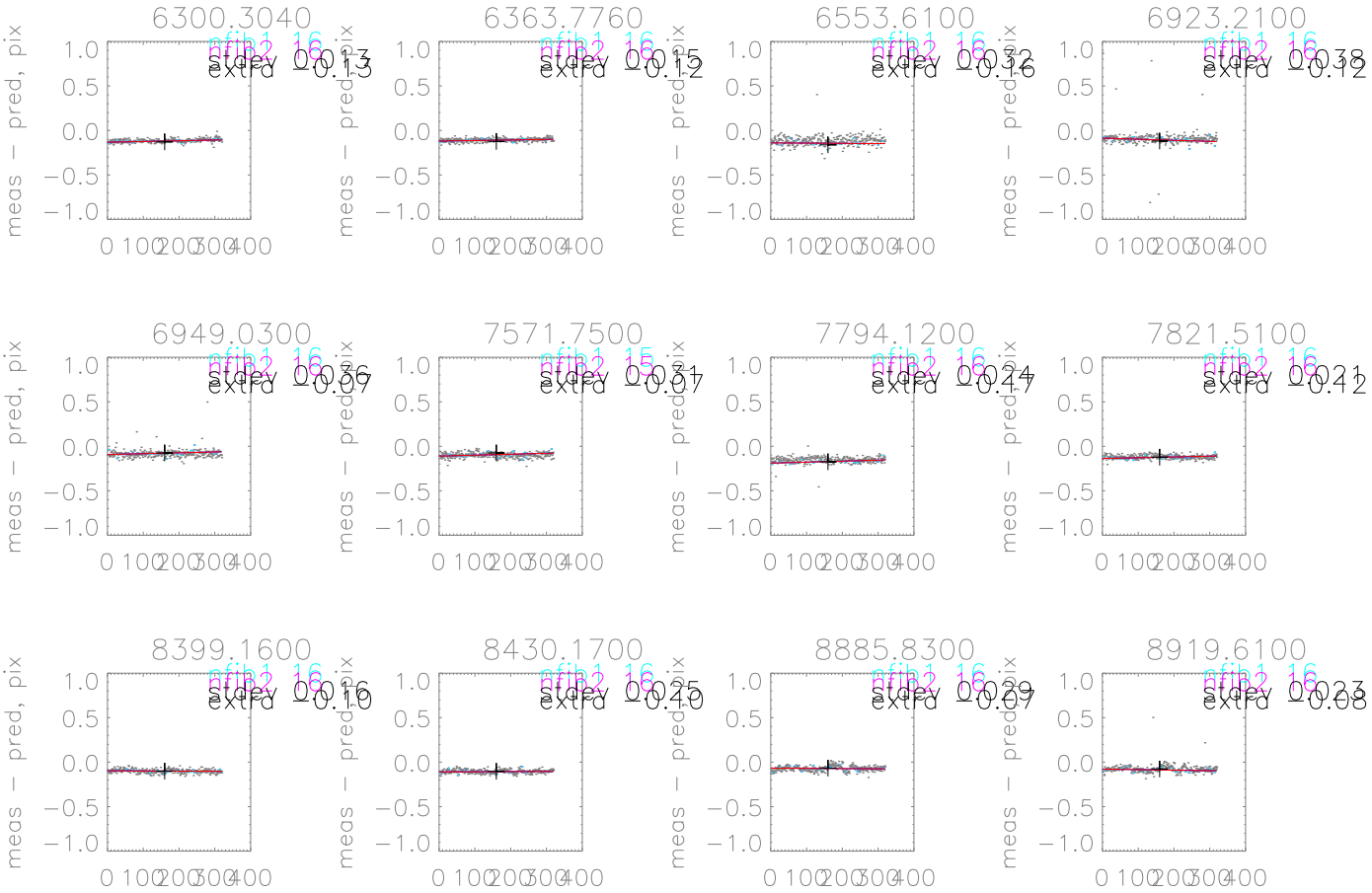

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

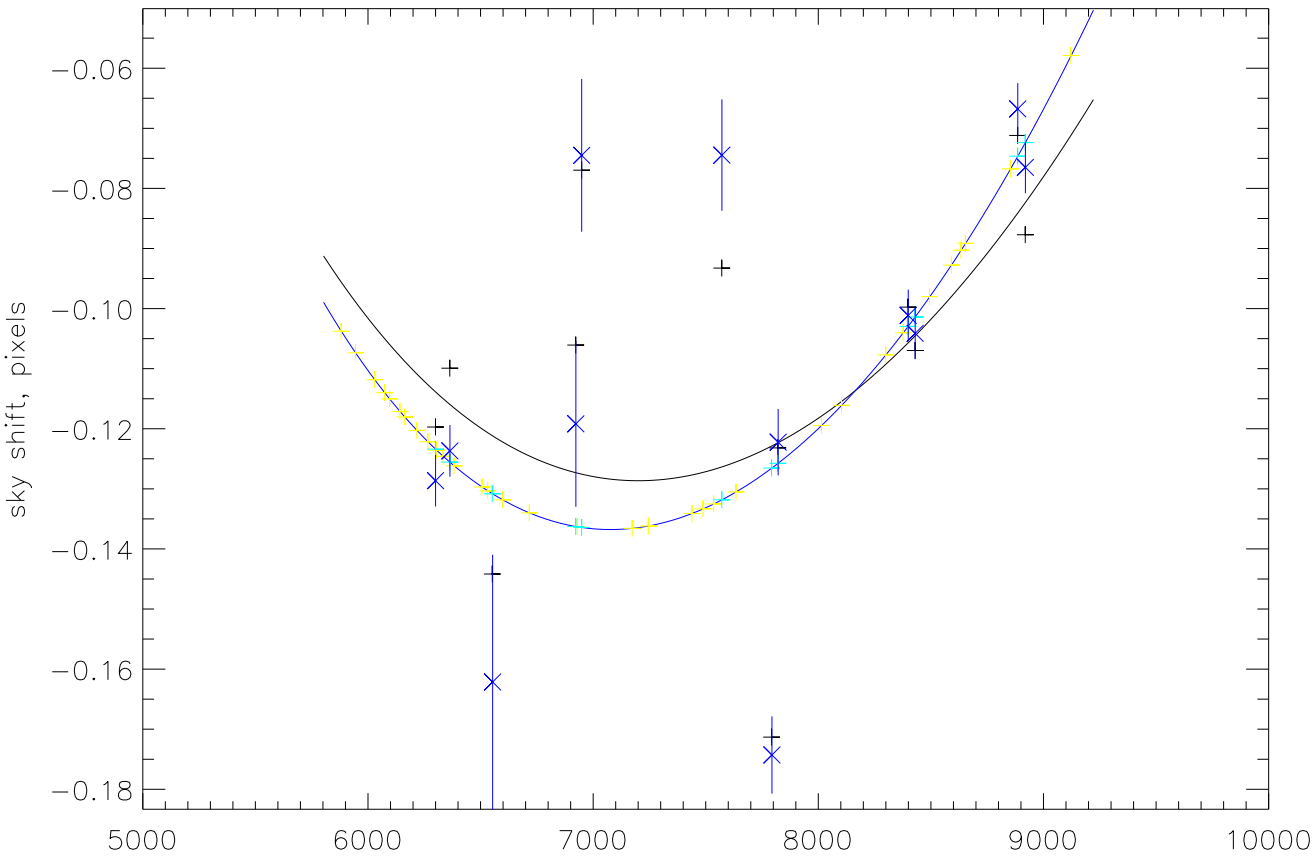

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

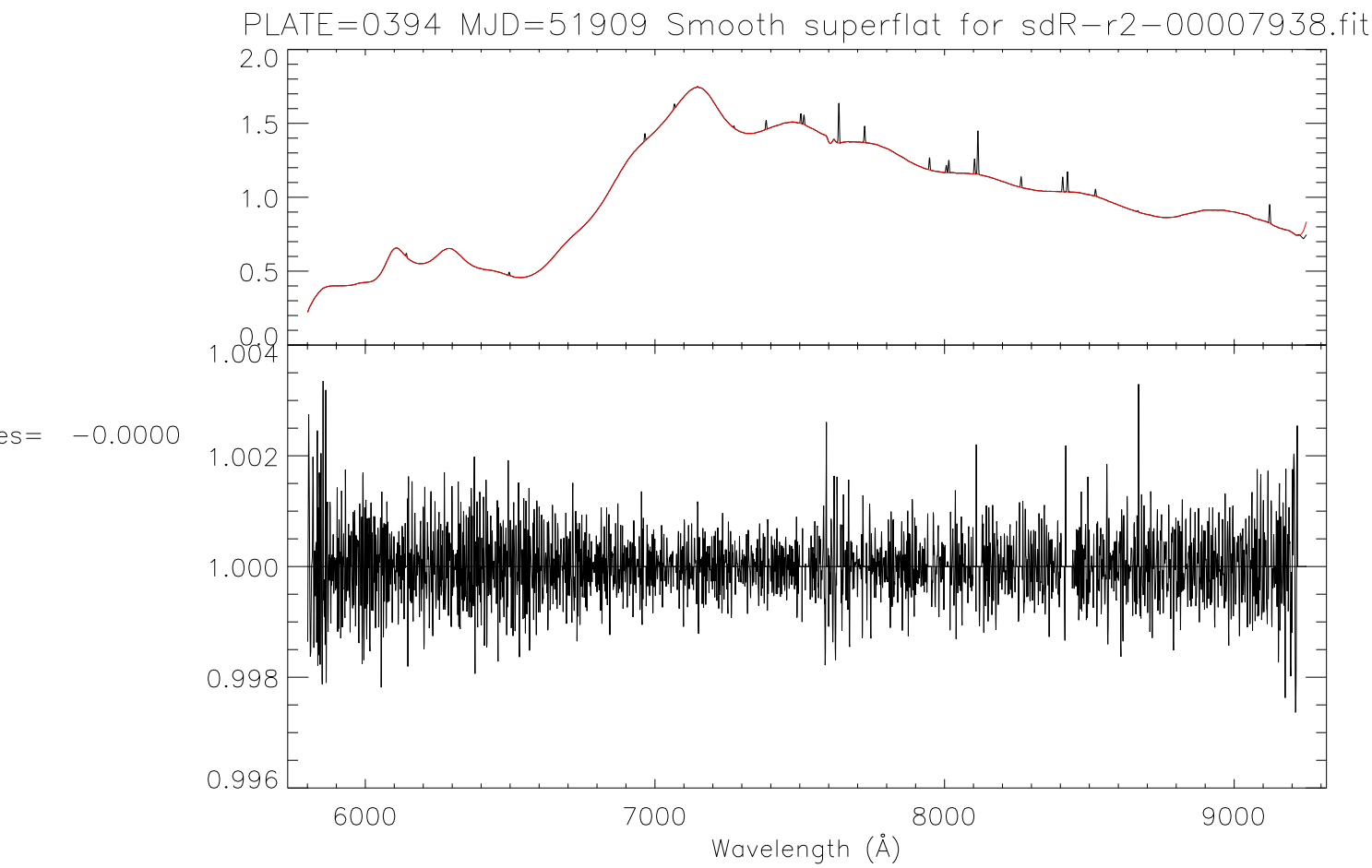

8430.1700
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

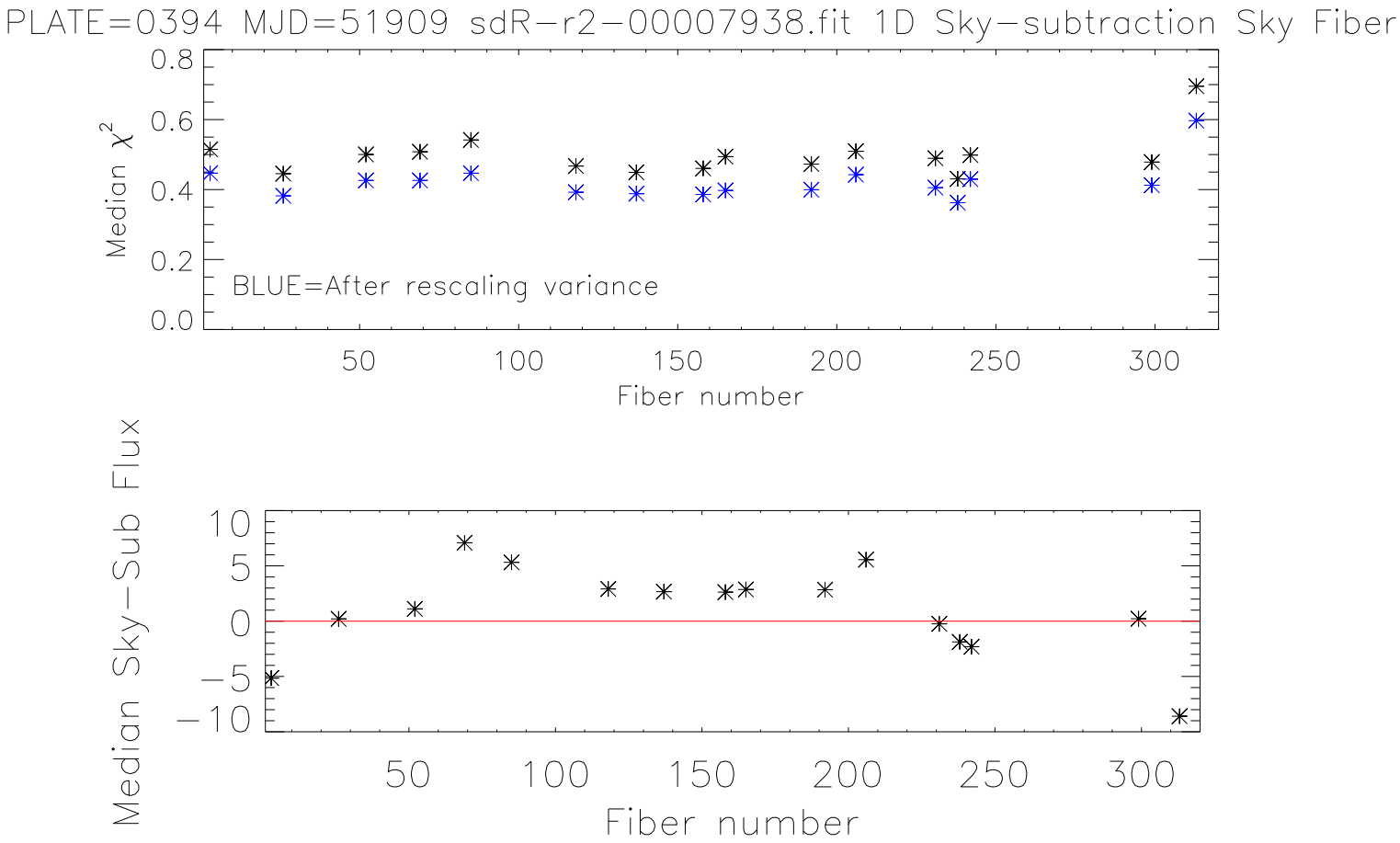

8885.8300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

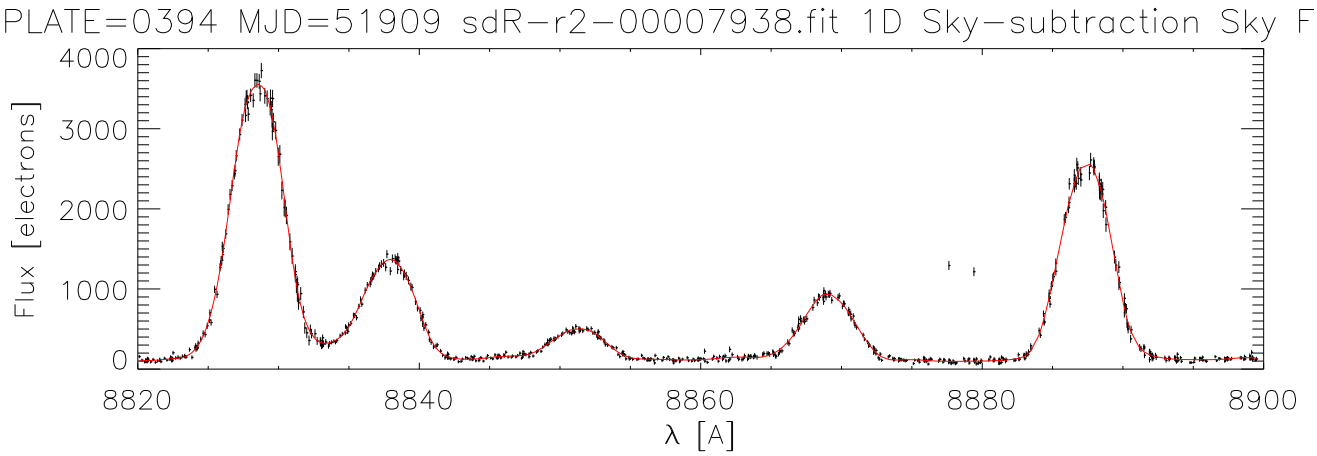

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

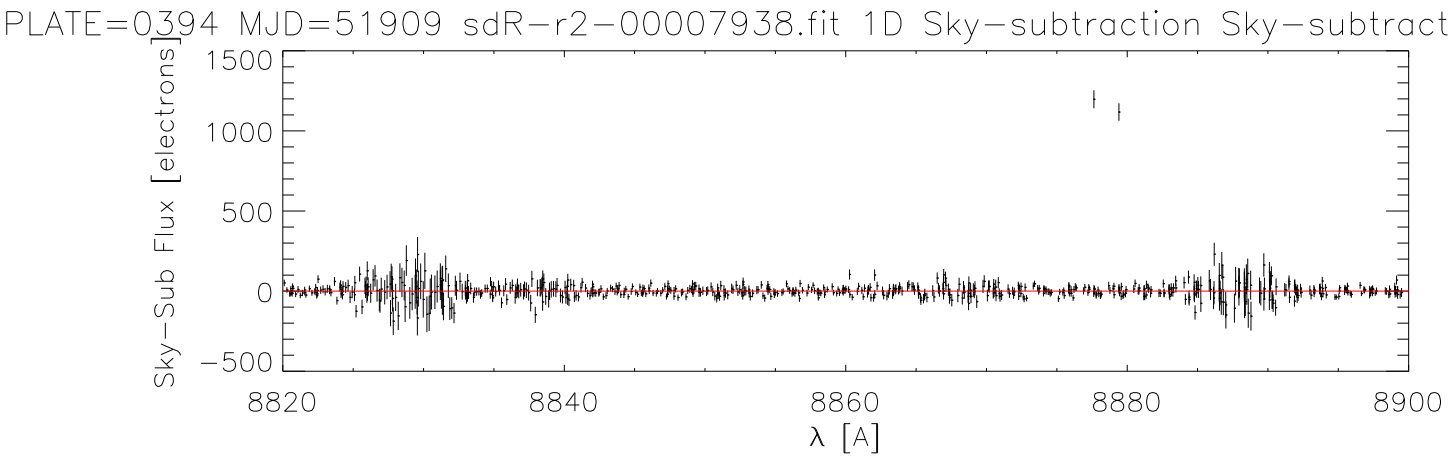

6300.3040
6363.7760
6553.6100
6923.2100
6949.0300
7571.7500
7794.1200
7821.5100
8399.1600
8430.1700
8885.8300
8919.6100
meas − pred, pix
mfib1 16
mfib2 16
stdev 0.13
extra 0.13
stdev 0.12
extra 0.15
stdev 0.16
extra 0.32
stdev 0.12
extra 0.38
stdev 0.07
extra 0.36
stdev 0.07
extra 0.31
stdev 0.17
extra 0.24
stdev 0.12
extra 0.21
stdev 0.10
extra 0.16
stdev 0.40
extra 0.25
stdev 0.07
extra 0.29
stdev 0.08
extra 0.23

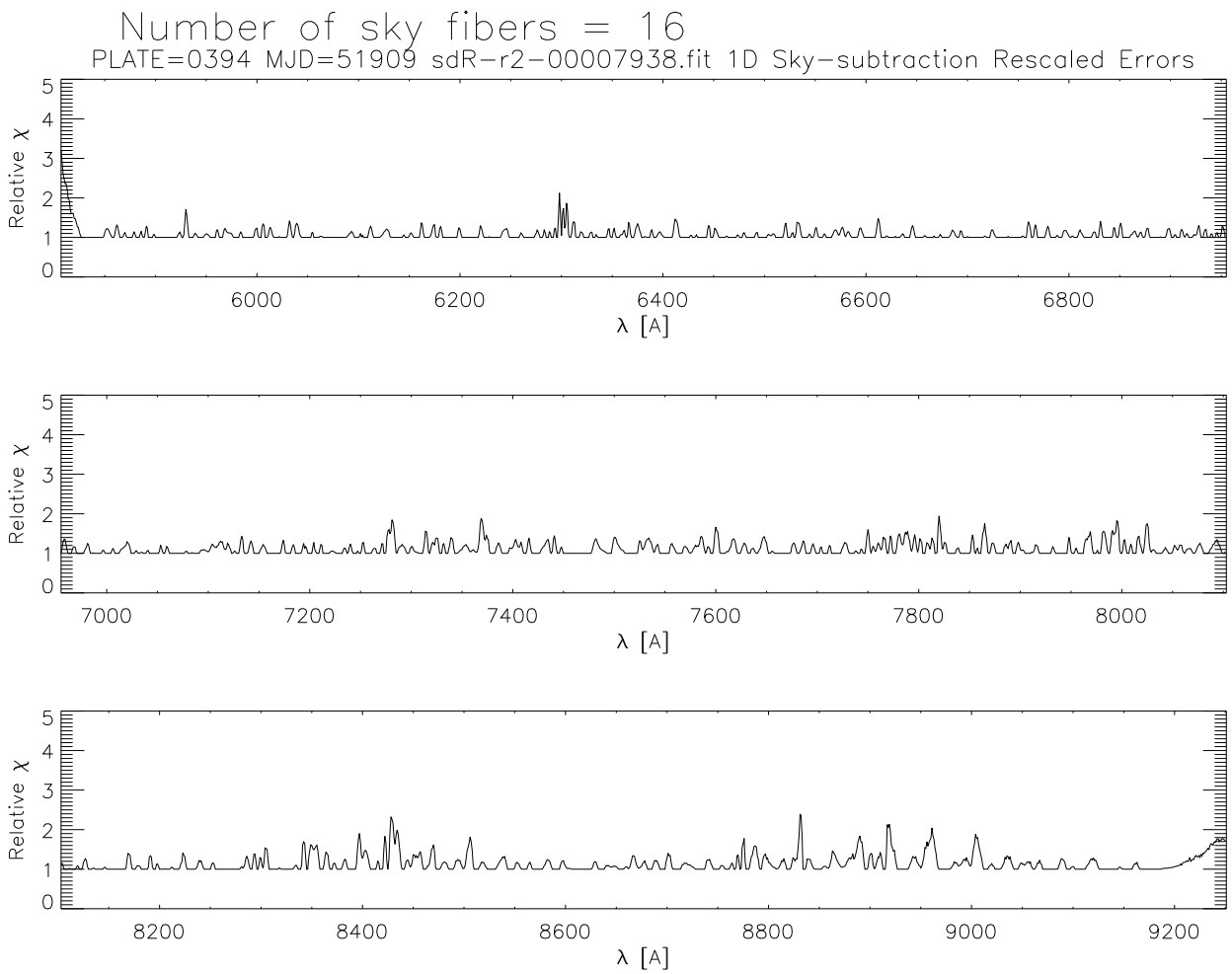

sky shift, pixels
−0.06
−0.08
−0.10
−0.12
−0.14
−0.16
−0.18
5000
6000
7000
8000
9000
10000

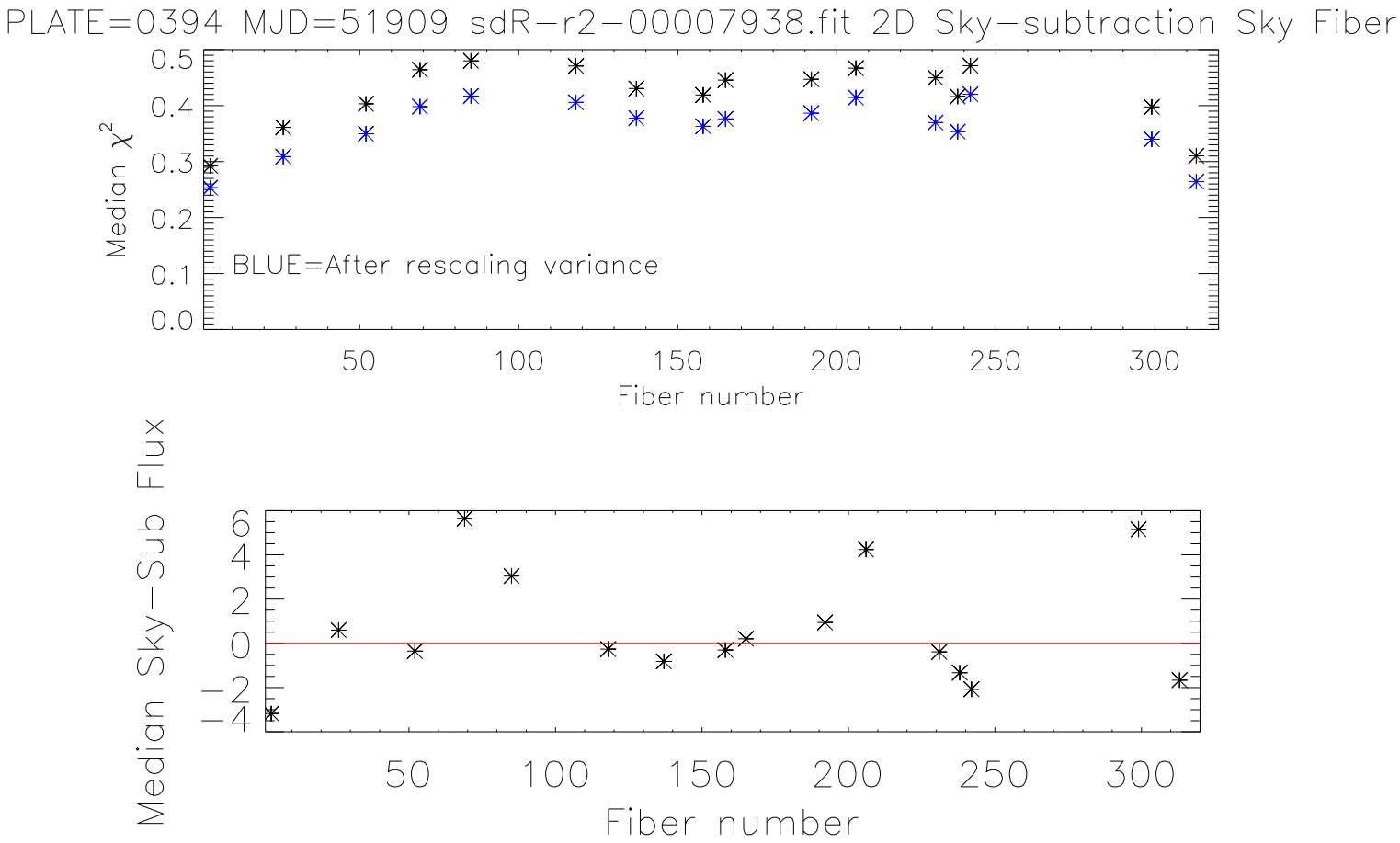

PLATE=0394 MJD=51909 Smooth superflat for sdR-r2-00007938.fit
2.0
1.5
1.0
0.5
0.0
1.004
1.002
1.000
0.998
0.996
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

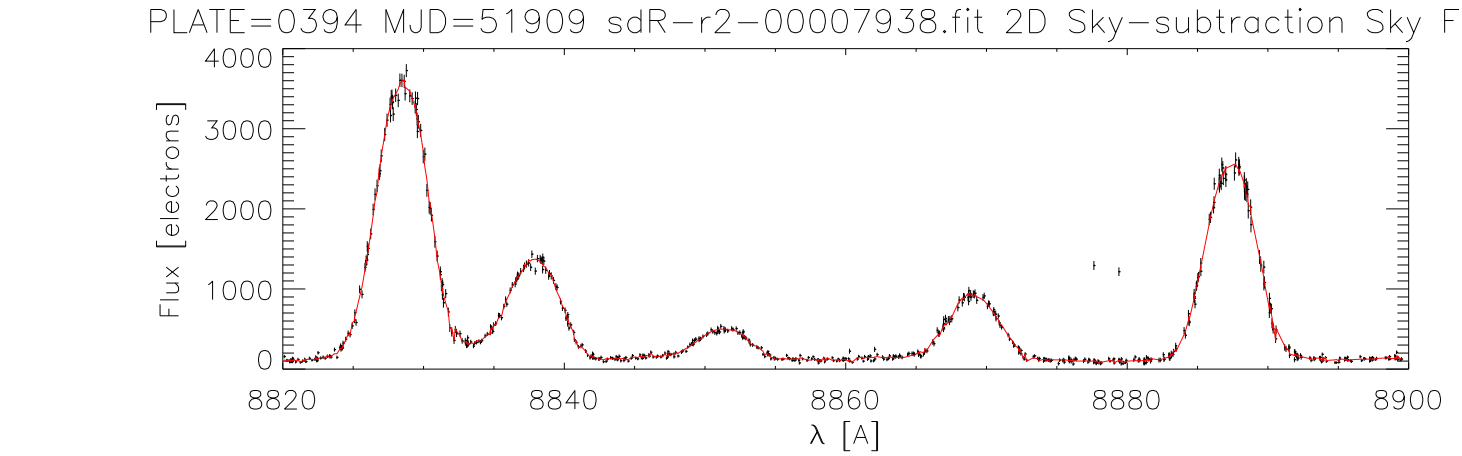

PLATE=0394 MJD=51909 sdR-r2-00007938.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

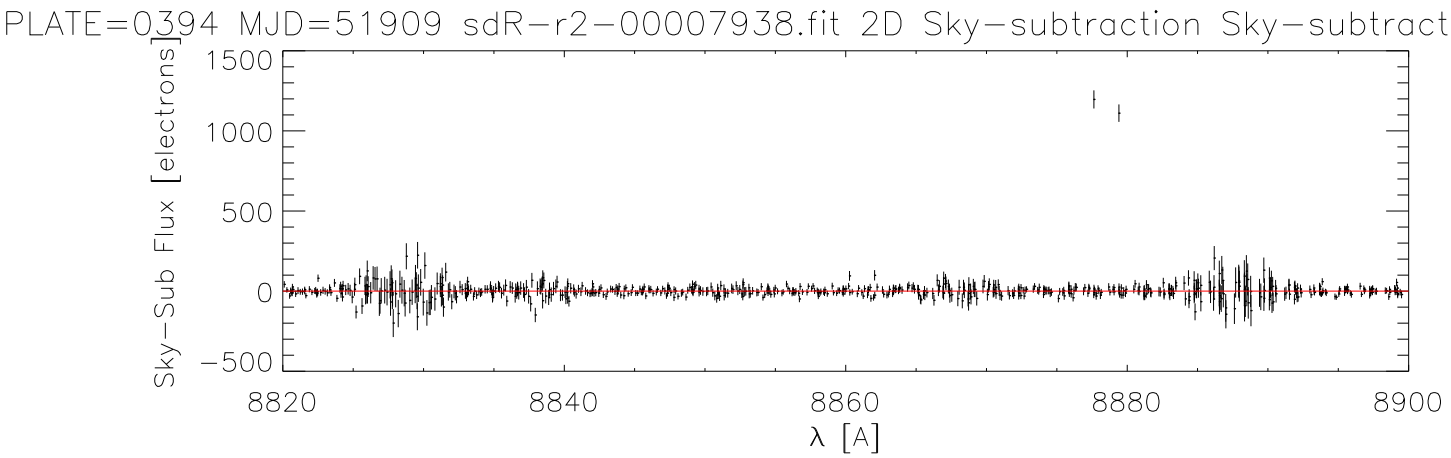

PLATE=0394 MJD=51909 sdR-r2-00007938.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

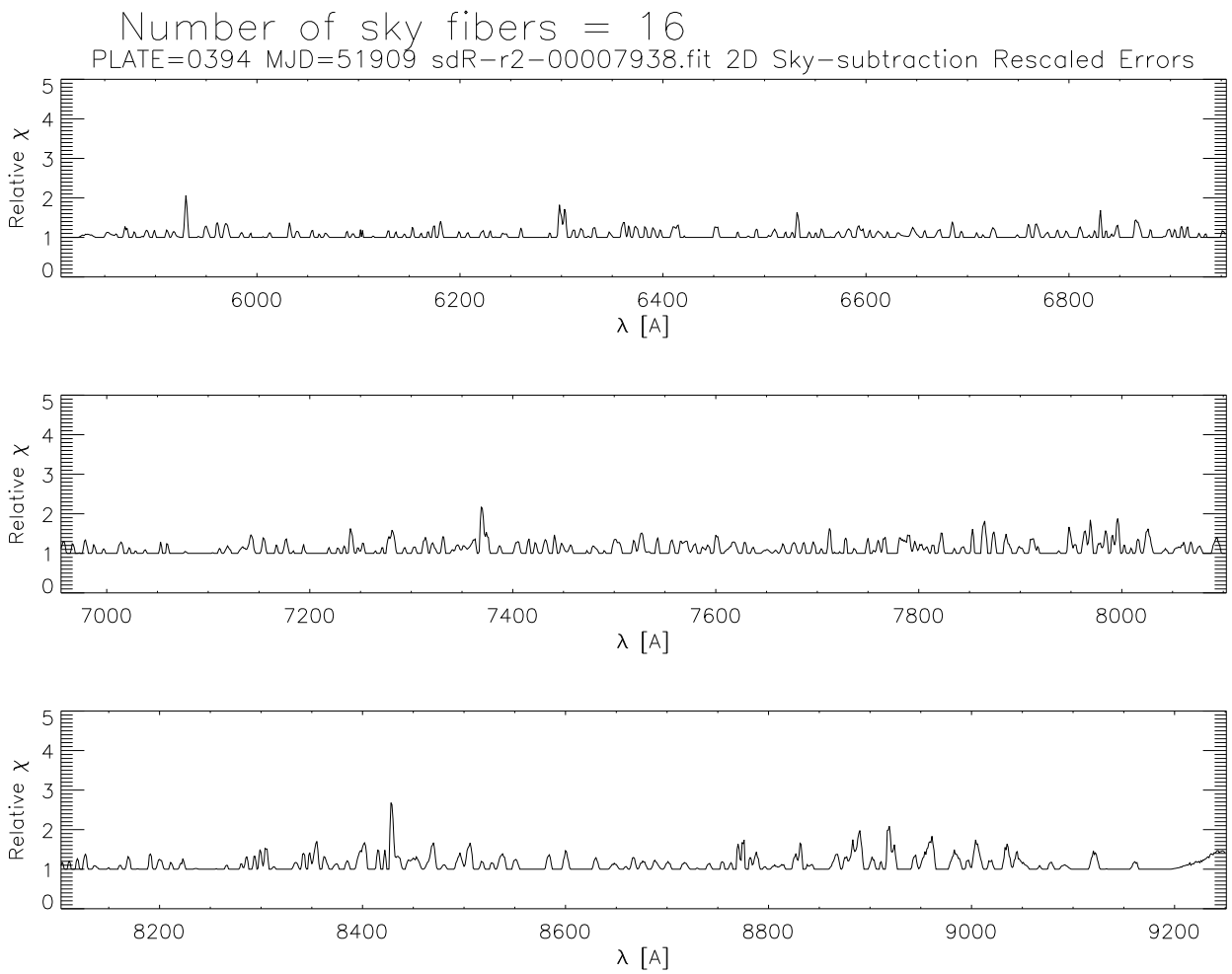

PLATE=0394 MJD=51909 sdR-r2-00007938.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

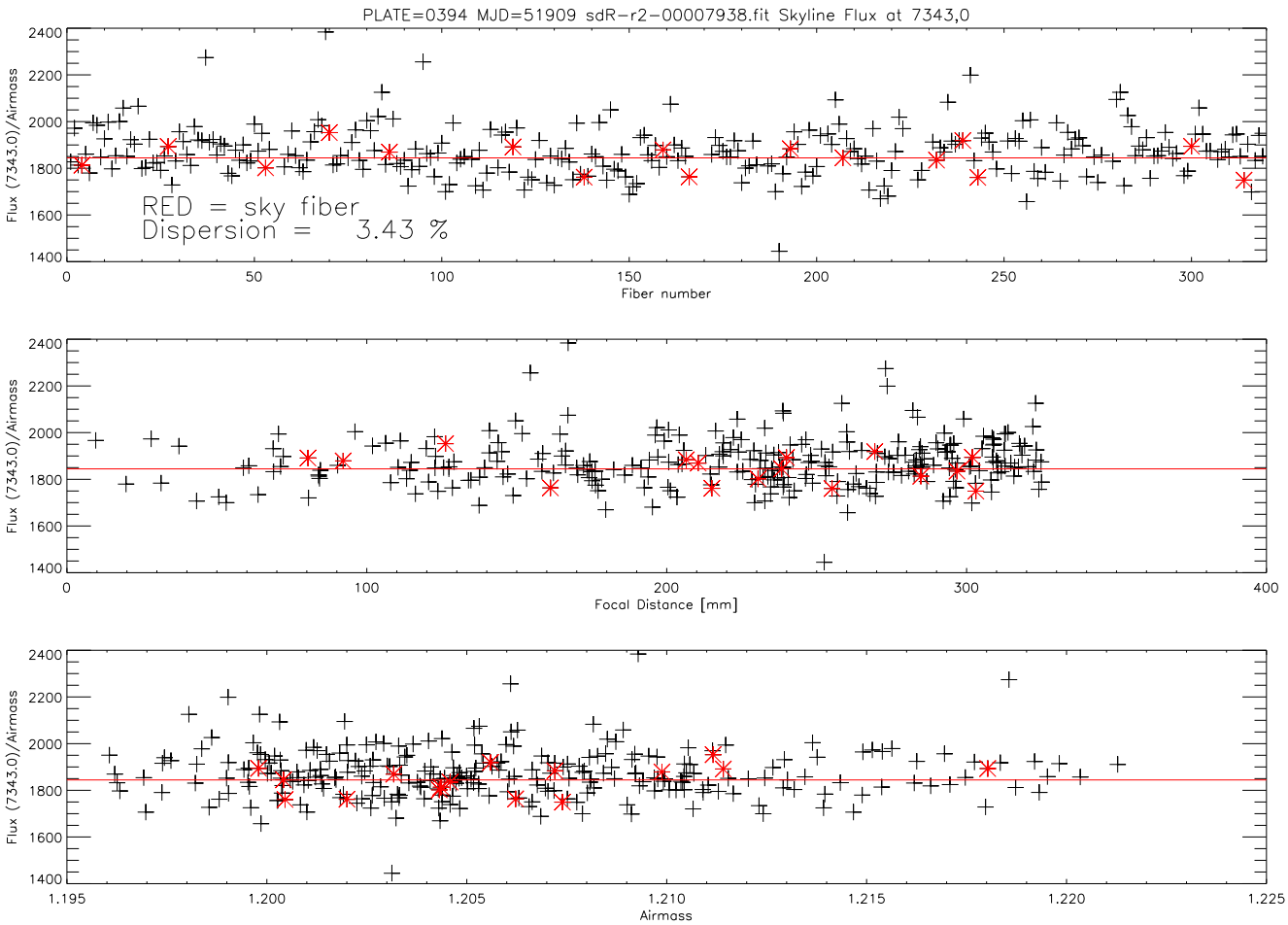

Number of sky fibers = 16
PLATE=0394 MJD=51909 sdR-r2-00007938.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

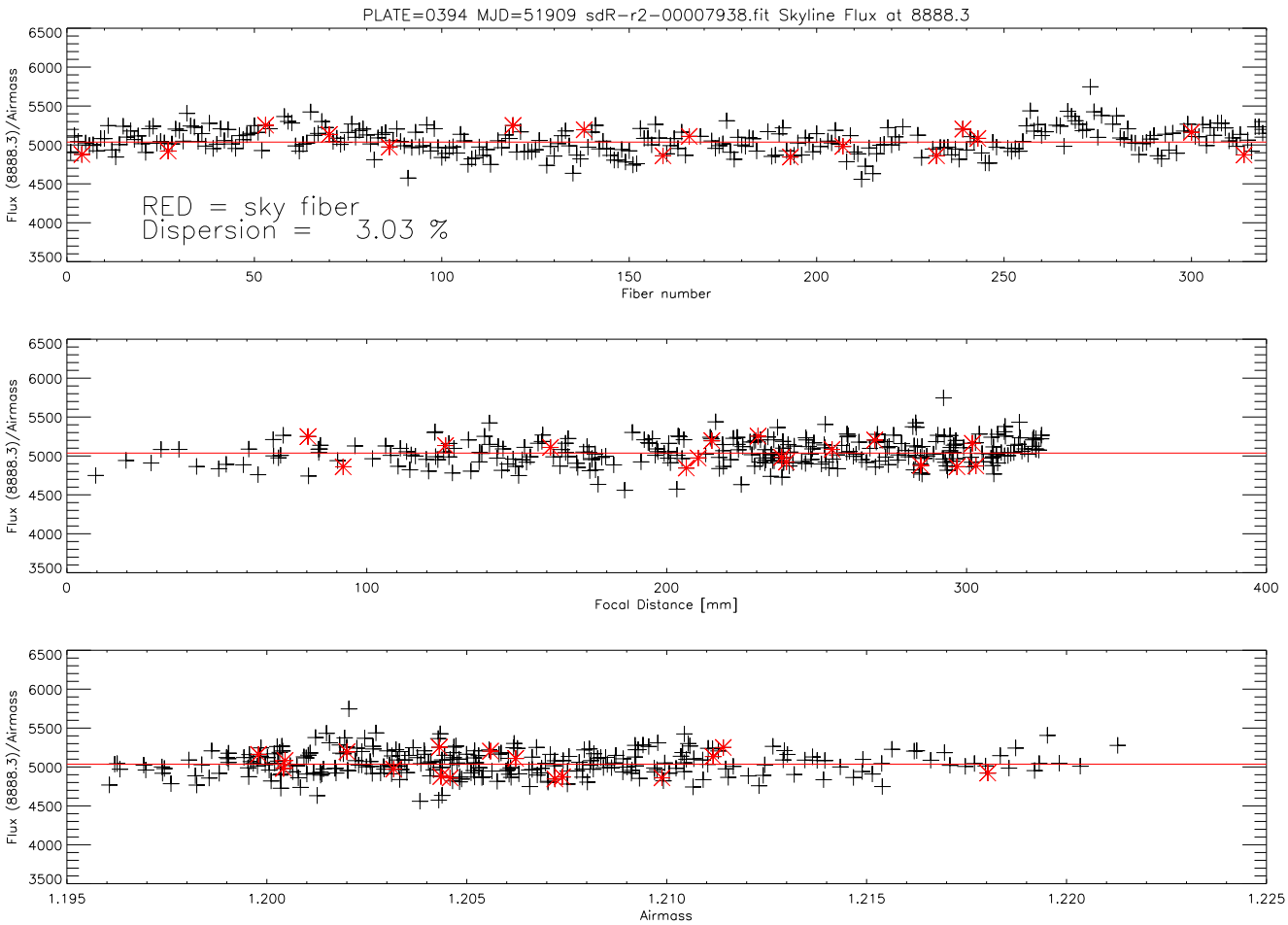

PLATE=0394 MJD=51909 sdR-r2-00007938.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

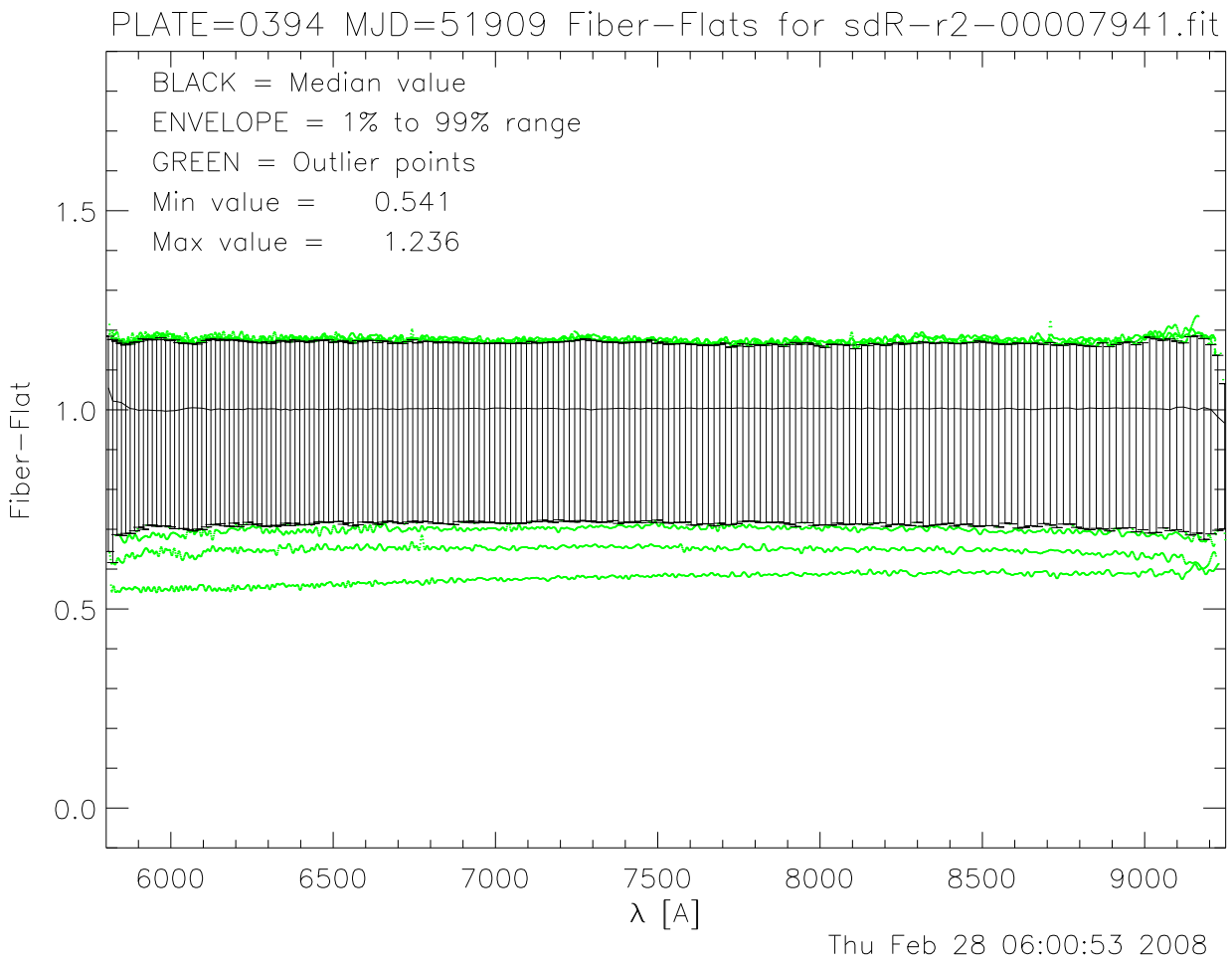

PLATE=0394 MJD=51909 sdR-r2-00007938.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

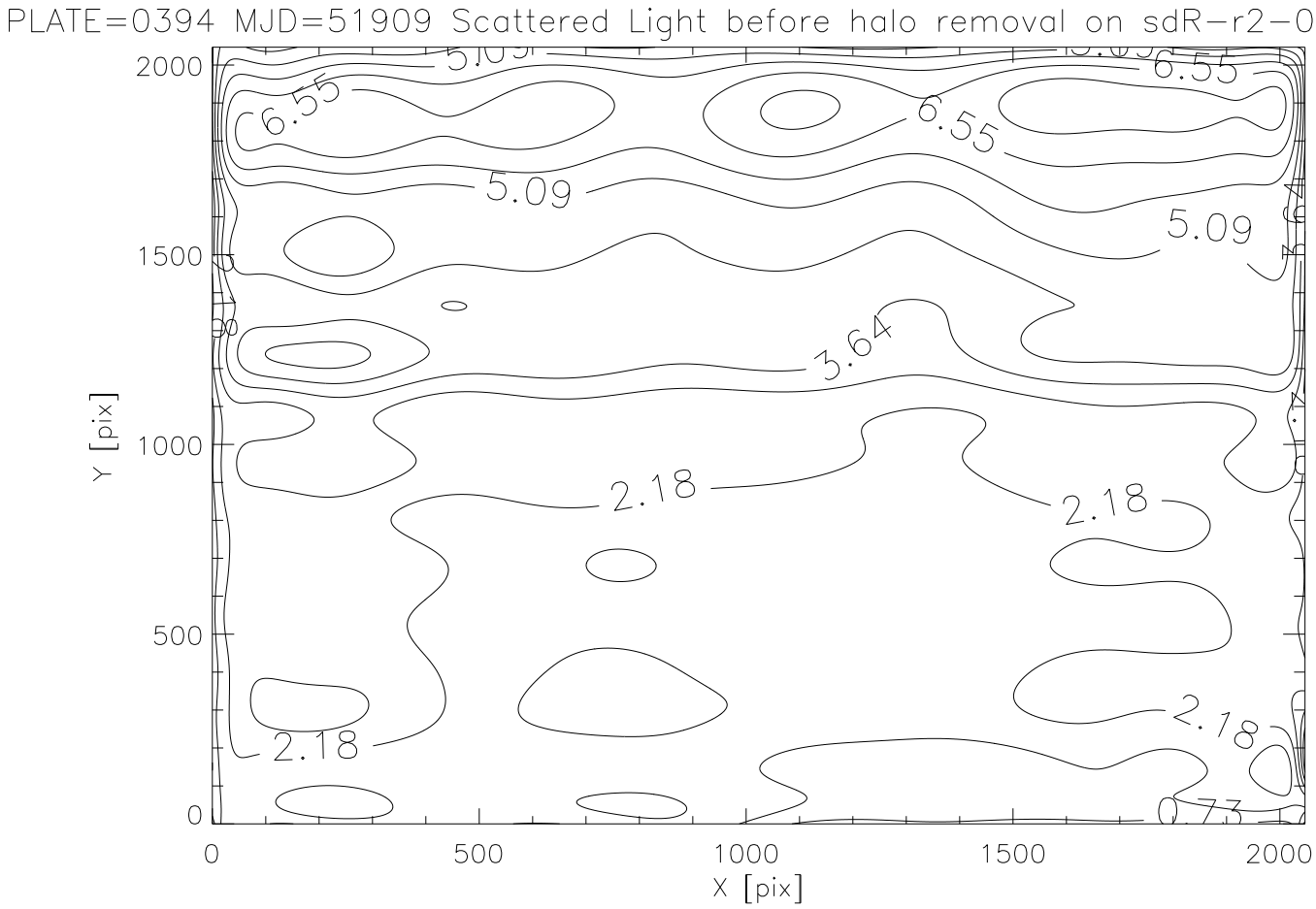

PLATE=0394 MJD=51909 sdR-r2-00007938.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

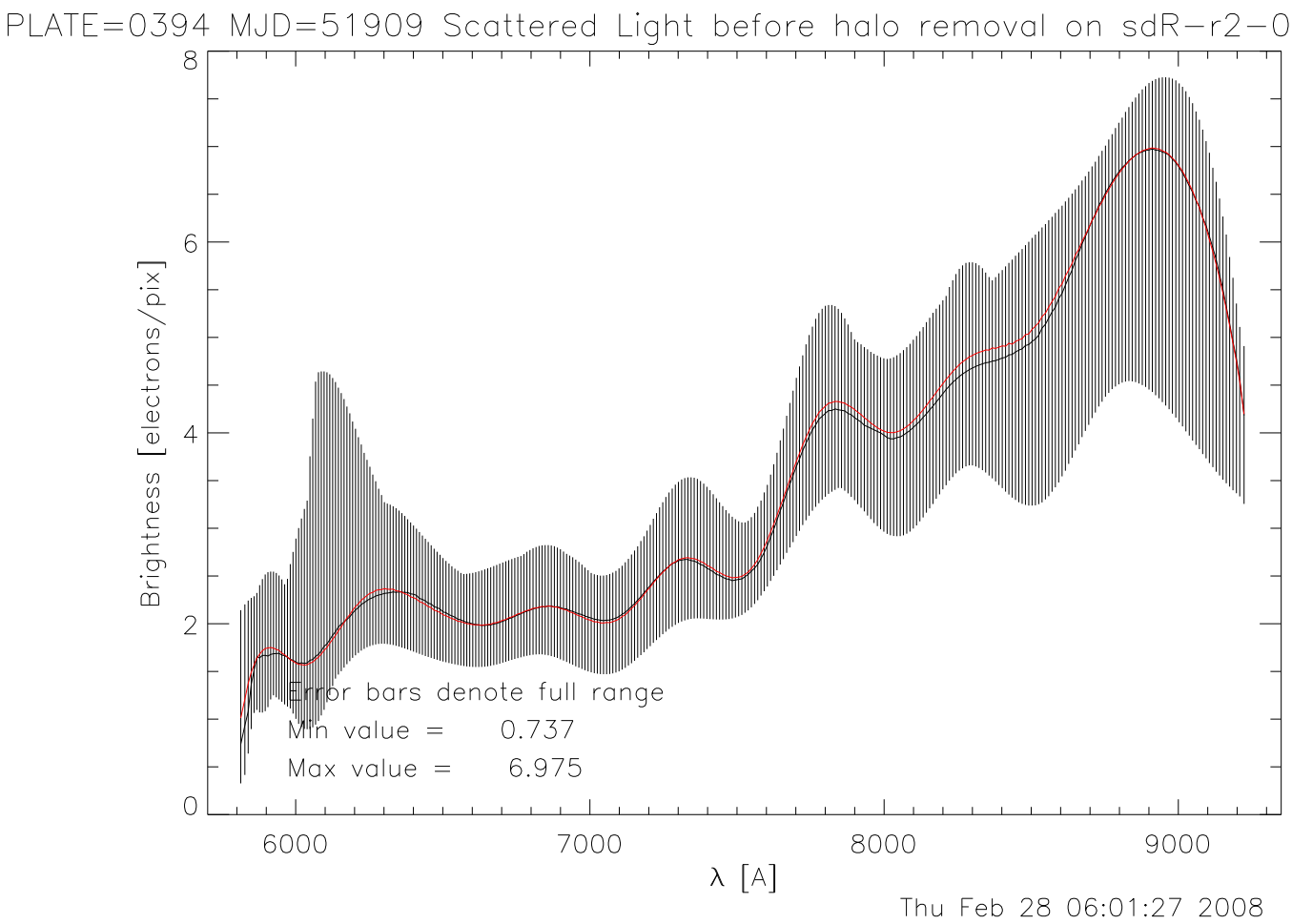

Number of sky fibers = 16
PLATE=0394 MJD=51909 sdR-r2-00007938.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

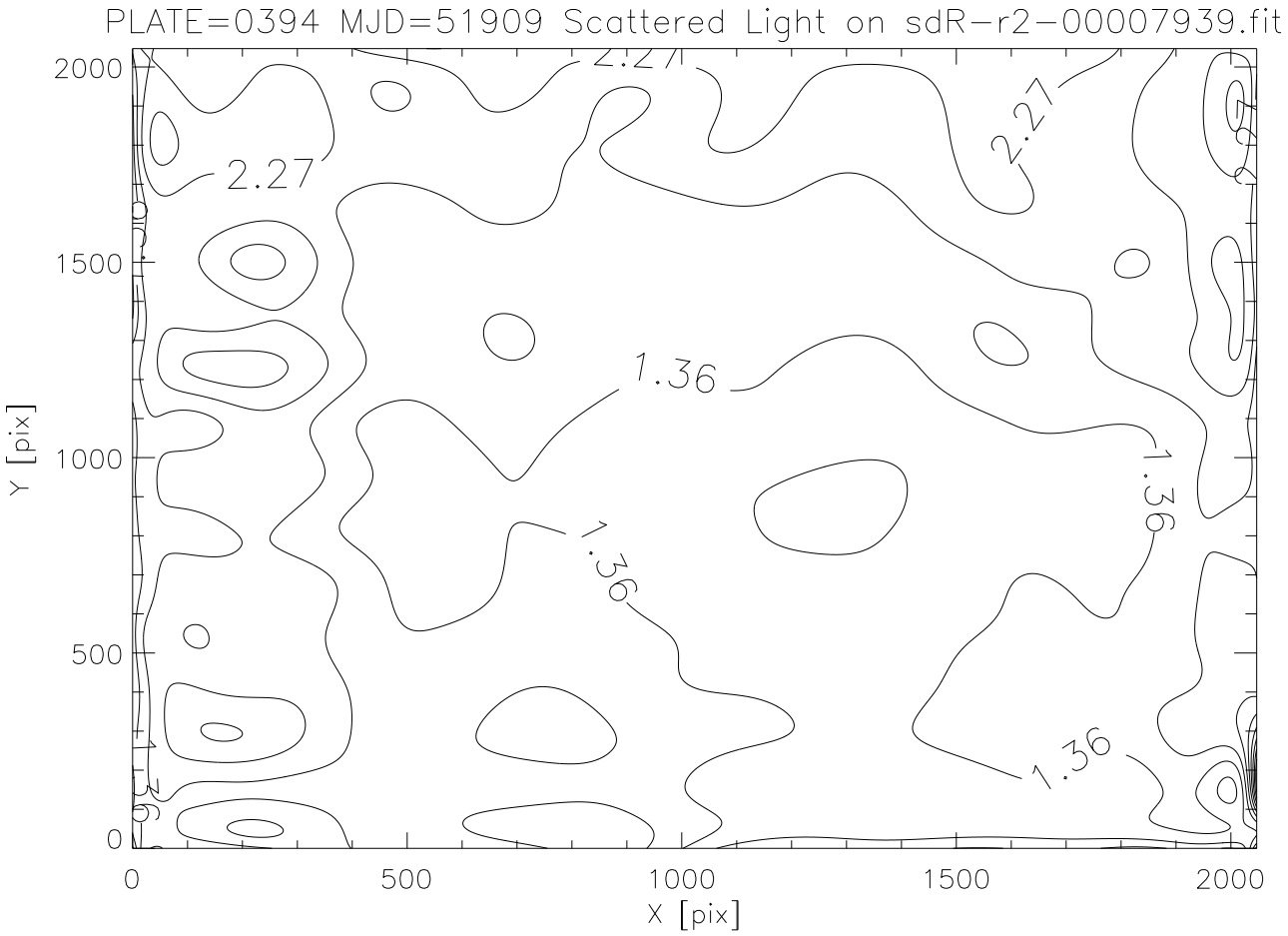

PLATE=0394 MJD=51909 sdR-r2-00007938.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.43 %
Fiber number
Focal Distance [mm]
Airmass

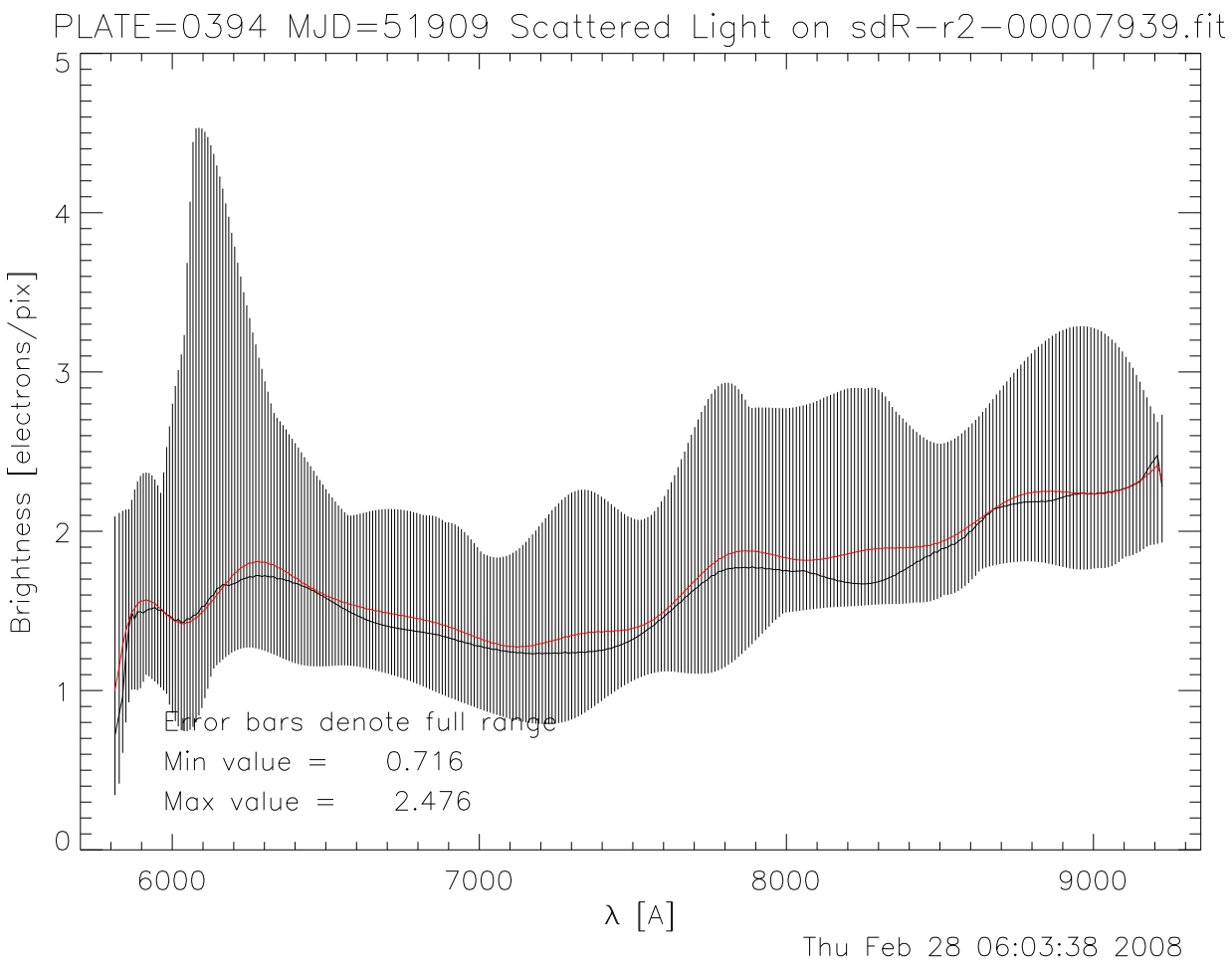

PLATE=0394 MJD=51909 sdR-r2-00007938.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.03 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

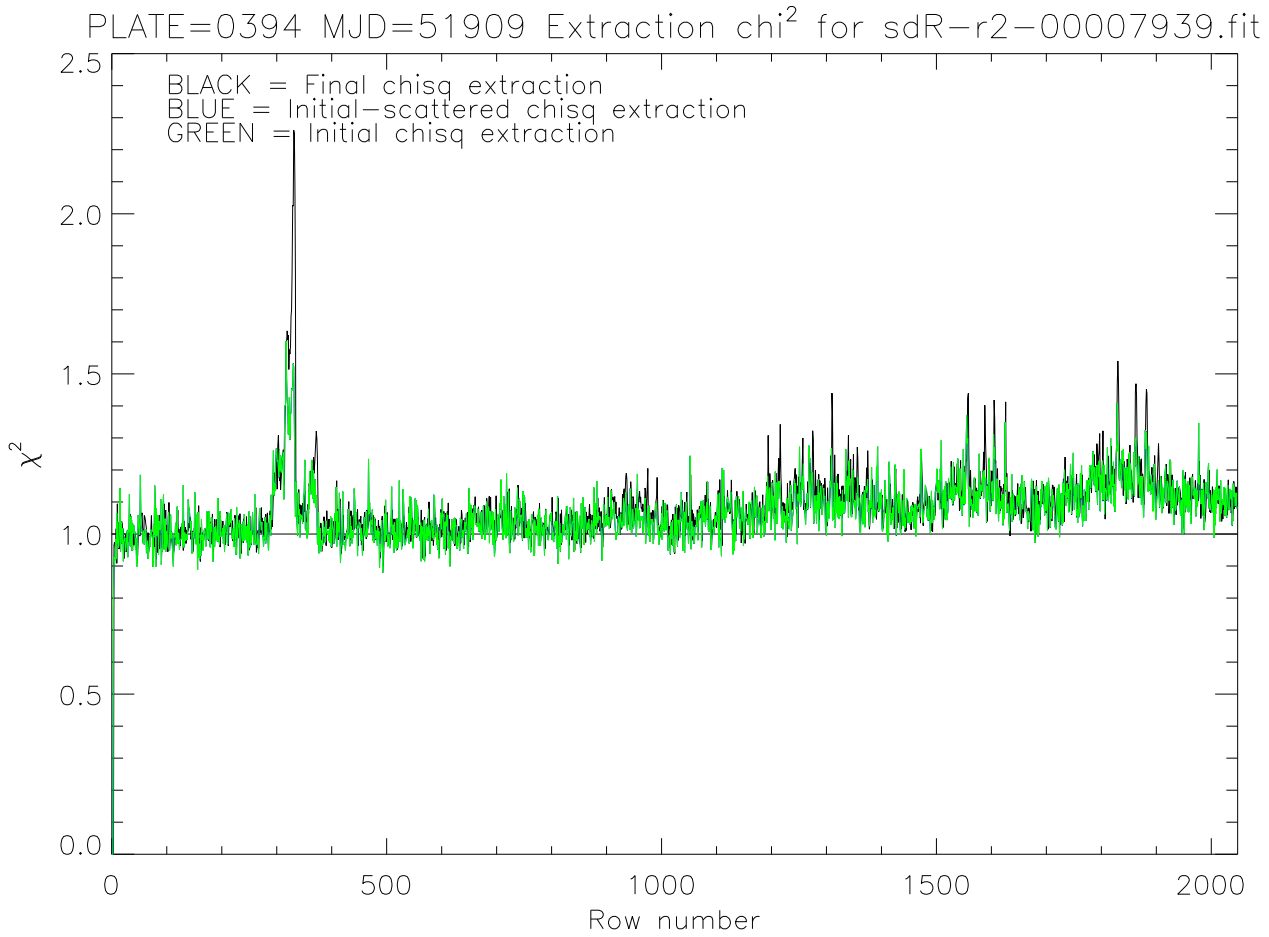

PLATE=0394 MJD=51909 Fiber−Flats for sdR−r2−00007941.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.541
Max value = 1.236
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Thu Feb 28 06:00:53 2008

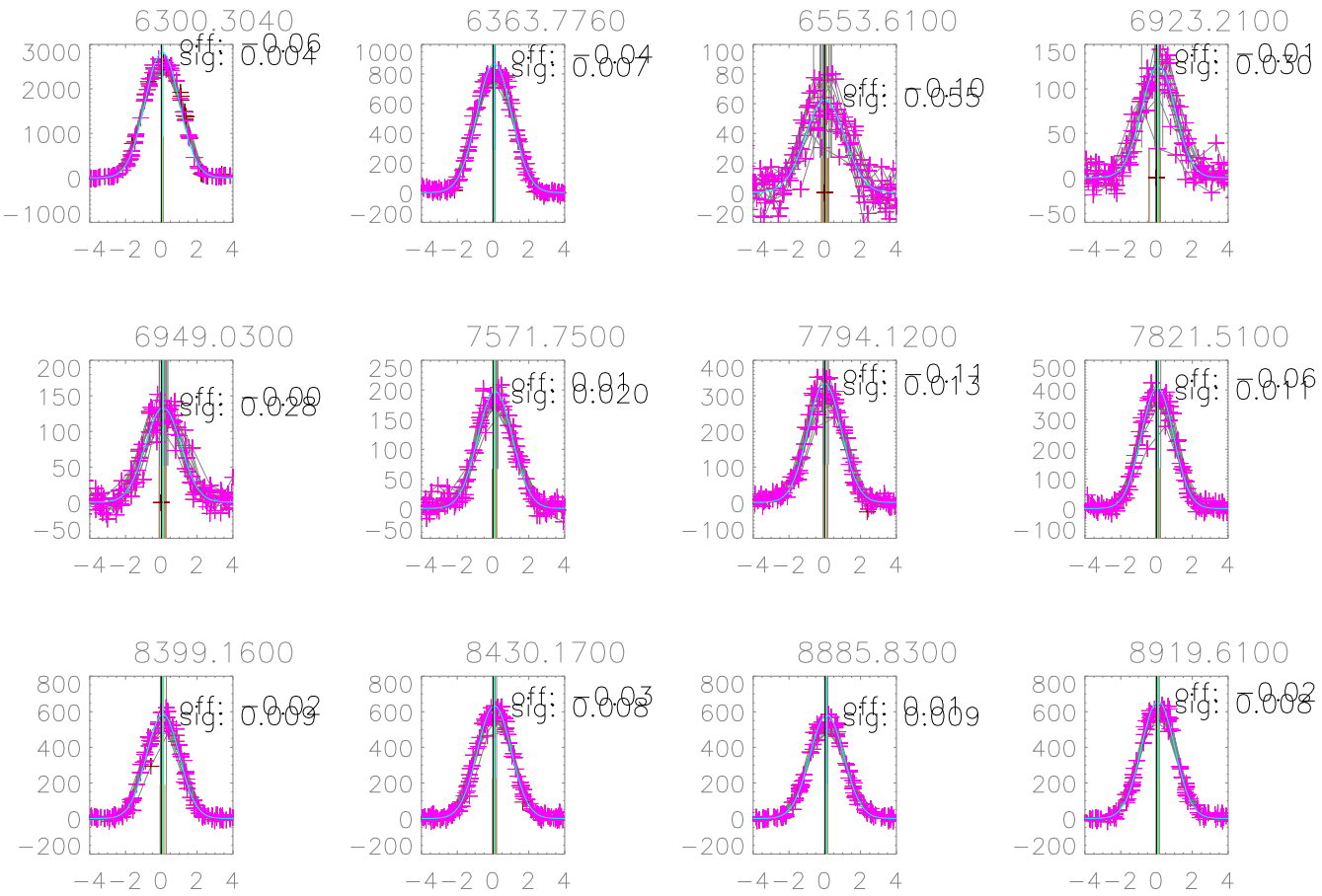

PLATE=0394 MJD=51909 Scattered Light before halo removal on sdR-r2-00007939.fi
6.55
5.09
3.64
2.18
0.73
Y [pix]
X [pix]
0
500
1000
1500
2000

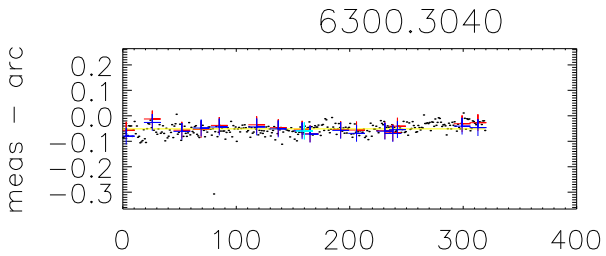

PLATE=0394 MJD=51909 Scattered Light before halo removal on sdR-r2-00007939.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 0.737
Max value = 6.975
Thu Feb 28 06:01:27 2008

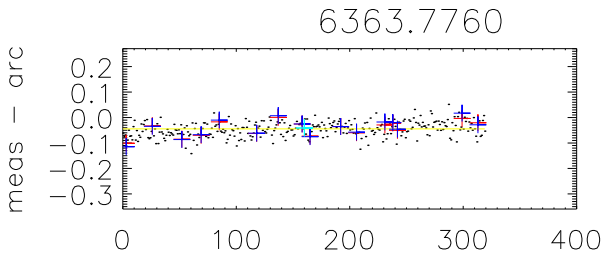

PLATE=0394 MJD=51909 Scattered Light on sdR-r2-00007939.fit
2.27
1.36
0
Y [pix]
X [pix]
0
500
1000
1500
2000

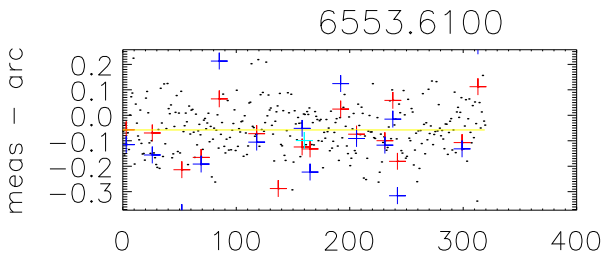

PLATE=0394 MJD=51909 Scattered Light on sdR-r2-00007939.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 0.716
Max value = 2.476
Thu Feb 28 06:03:38 2008

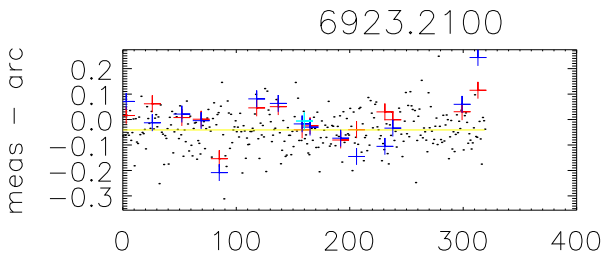

PLATE=0394 MJD=51909 Extraction chi^2 for sdR−r2−00007939.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

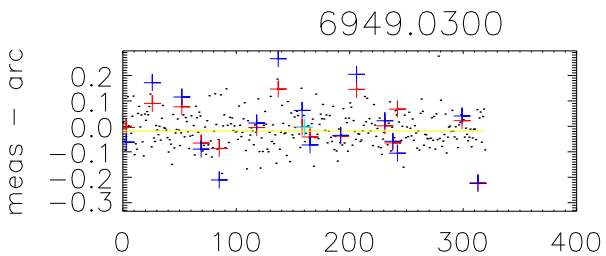

6300.3040
off: −0.06
sig: 0.004
6363.7760
off: −0.04
sig: 0.007
6553.6100
off: −0.10
sig: 0.055
6923.2100
off: −0.01
sig: 0.030
6949.0300
off: −0.00
sig: 0.028
7571.7500
off: 0.01
sig: 0.020
7794.1200
off: −0.11
sig: 0.013
7821.5100
off: −0.06
sig: 0.011
8399.1600
off: −0.02
sig: 0.009
8430.1700
off: −0.03
sig: 0.008
8885.8300
off: 0.01
sig: 0.009
8919.6100
off: −0.02
sig: 0.008

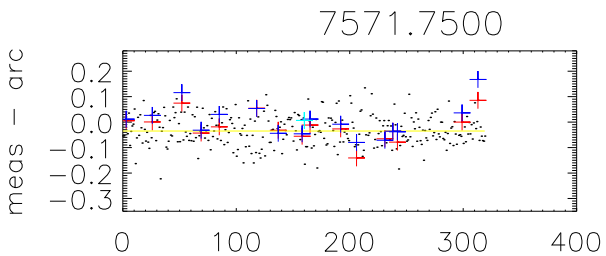

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

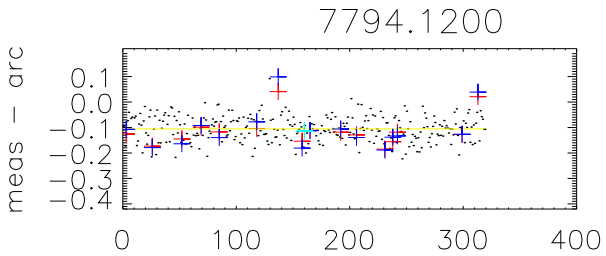

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

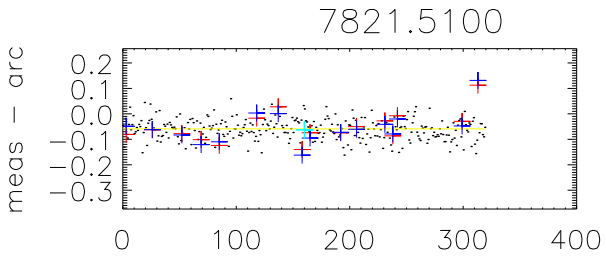

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

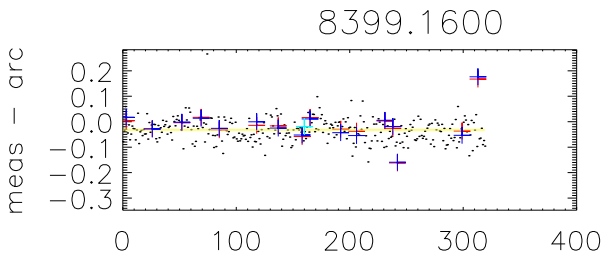

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

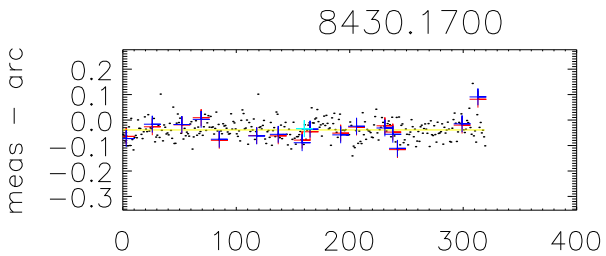

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

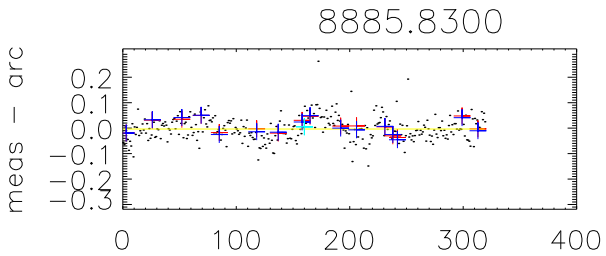

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

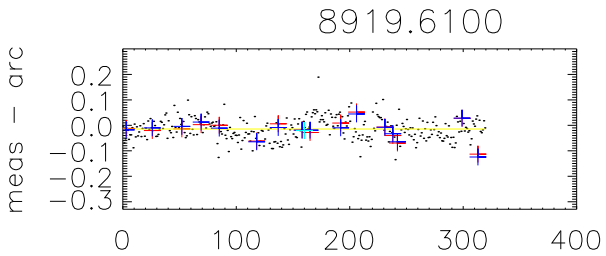

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

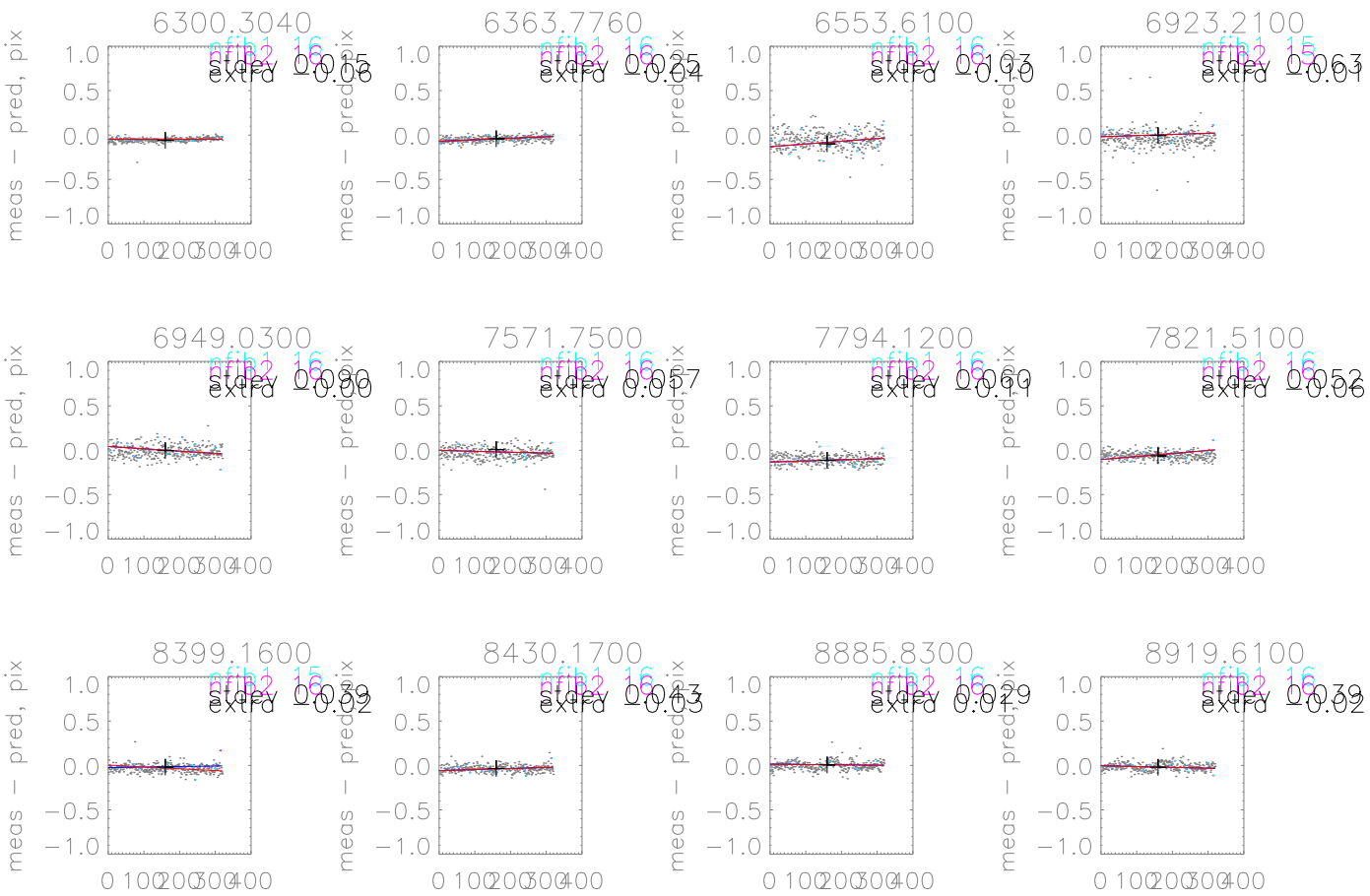

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

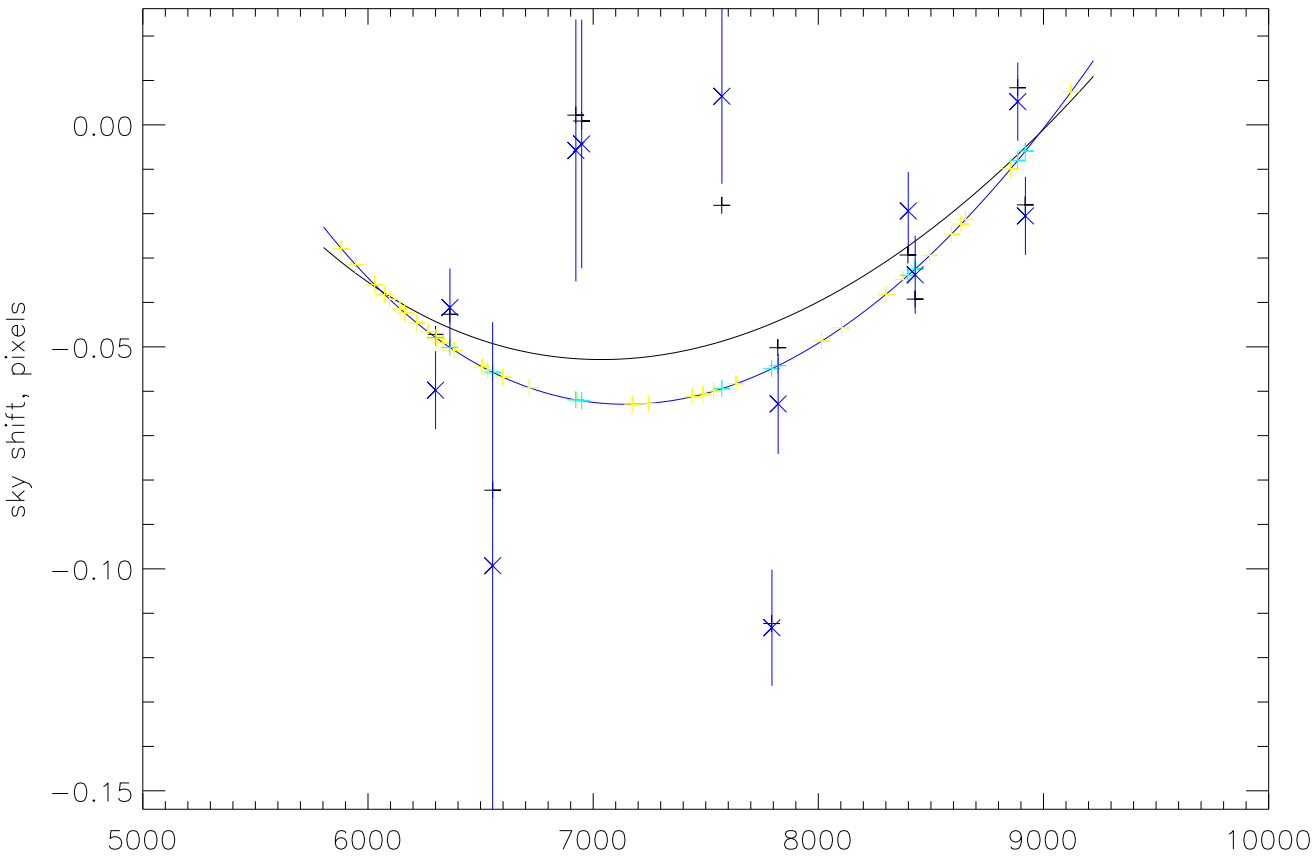

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

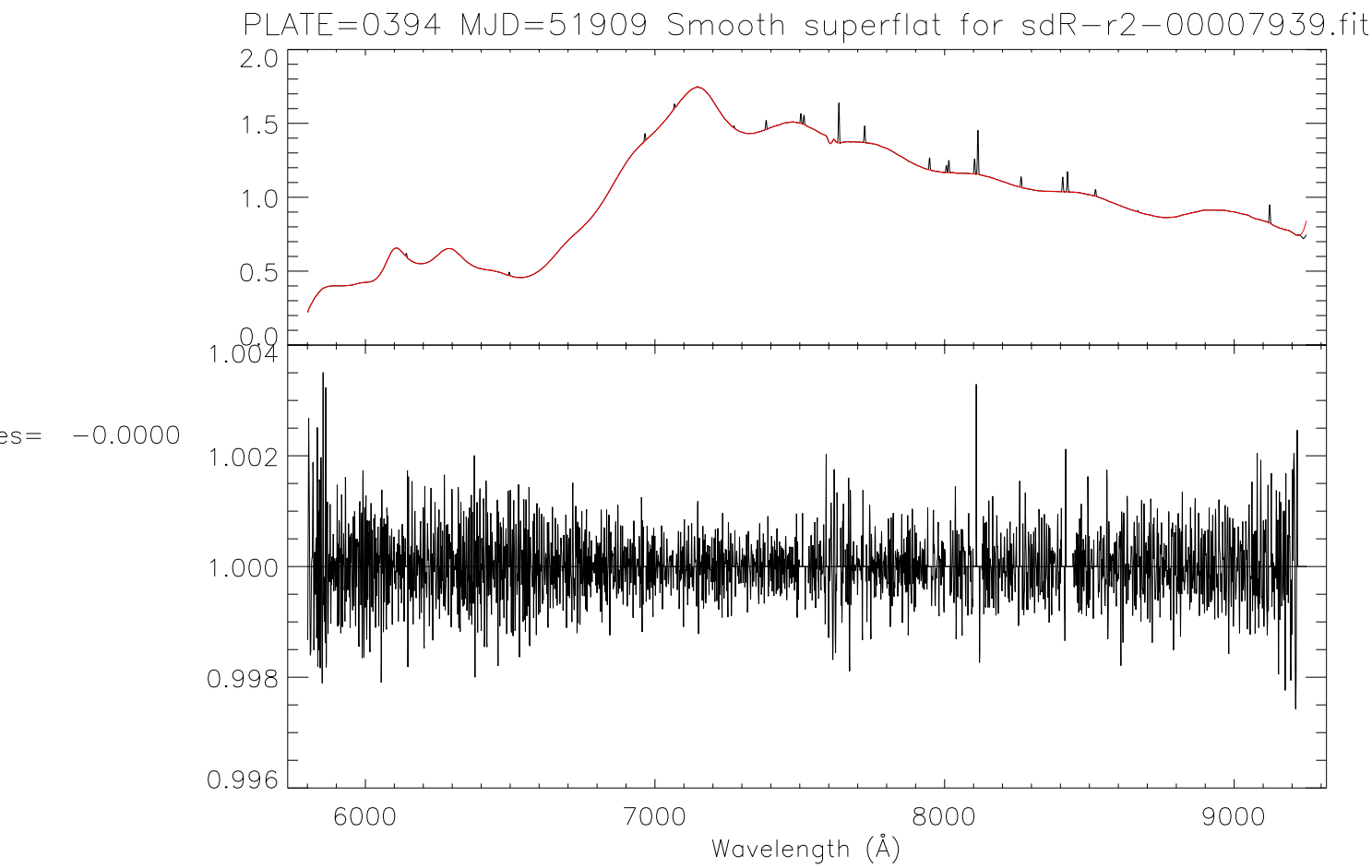

8430.1700
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

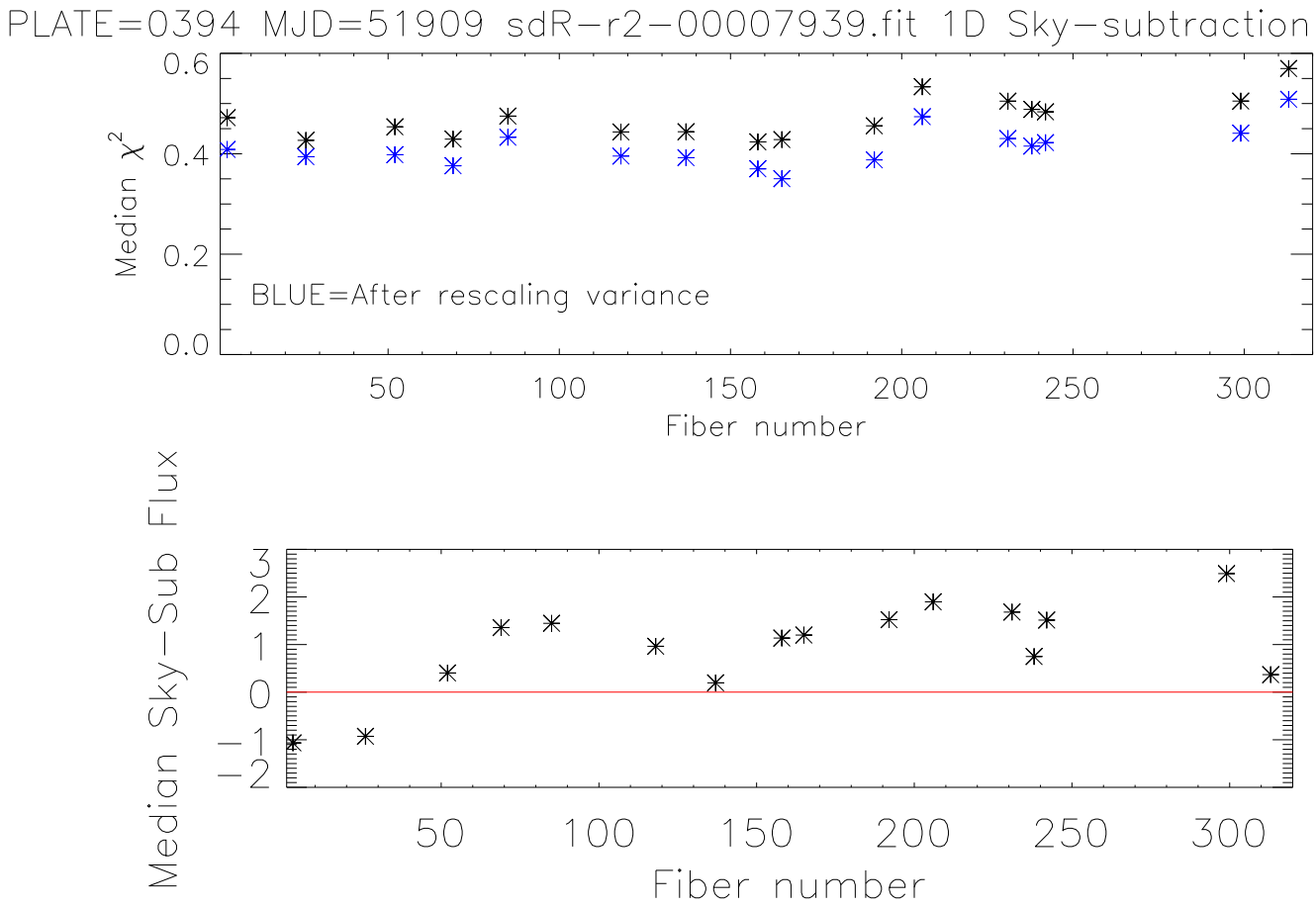

8885.8300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

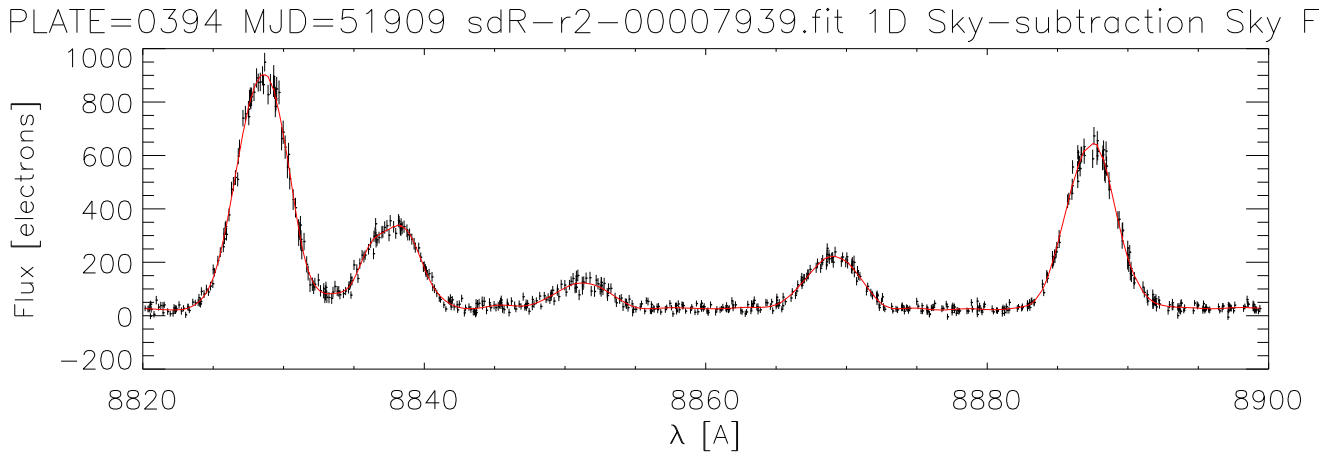

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

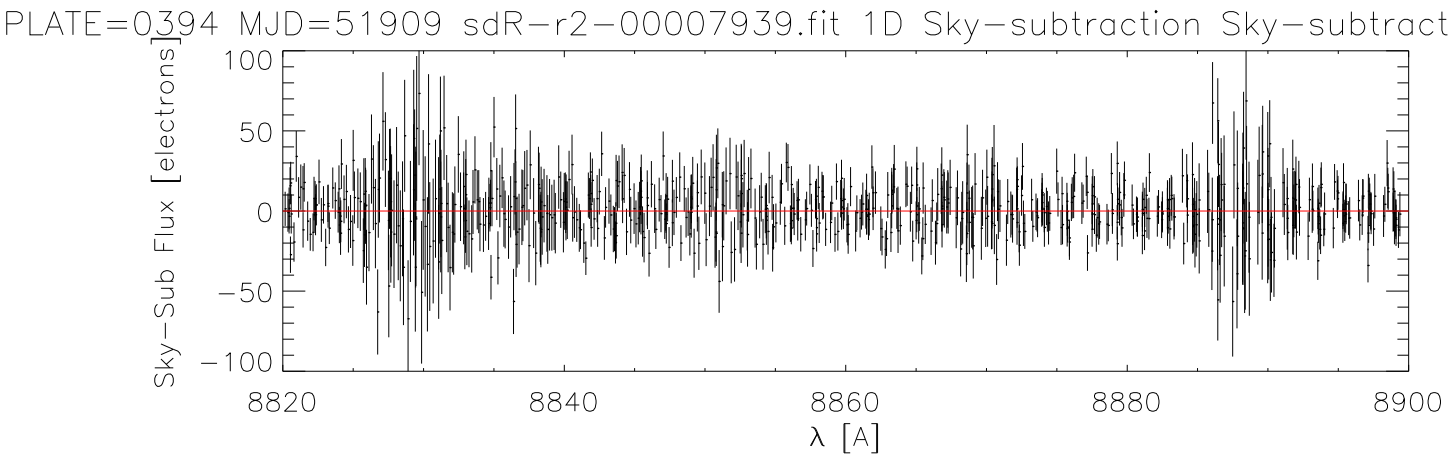

6300.3040
stdev 0.015
extra 0.08
6363.7760
stdev 0.025
extra 0.04
6553.6100
stdev 0.103
extra 0.10
6923.2100
stdev 0.063
extra 0.01
6949.0300
stdev 0.080
extra 0.00
7571.7500
stdev 0.057
extra 0.01
7794.1200
stdev 0.060
extra 0.01
7821.5100
stdev 0.052
extra 0.06
8399.1600
stdev 0.039
extra 0.02
8430.1700
stdev 0.043
extra 0.03
8885.8300
stdev 0.029
extra 0.01
8919.6100
stdev 0.039
extra 0.02
meas − pred, pix
mfib2 16
mfib1 15
mfib1 16
mfib2 15

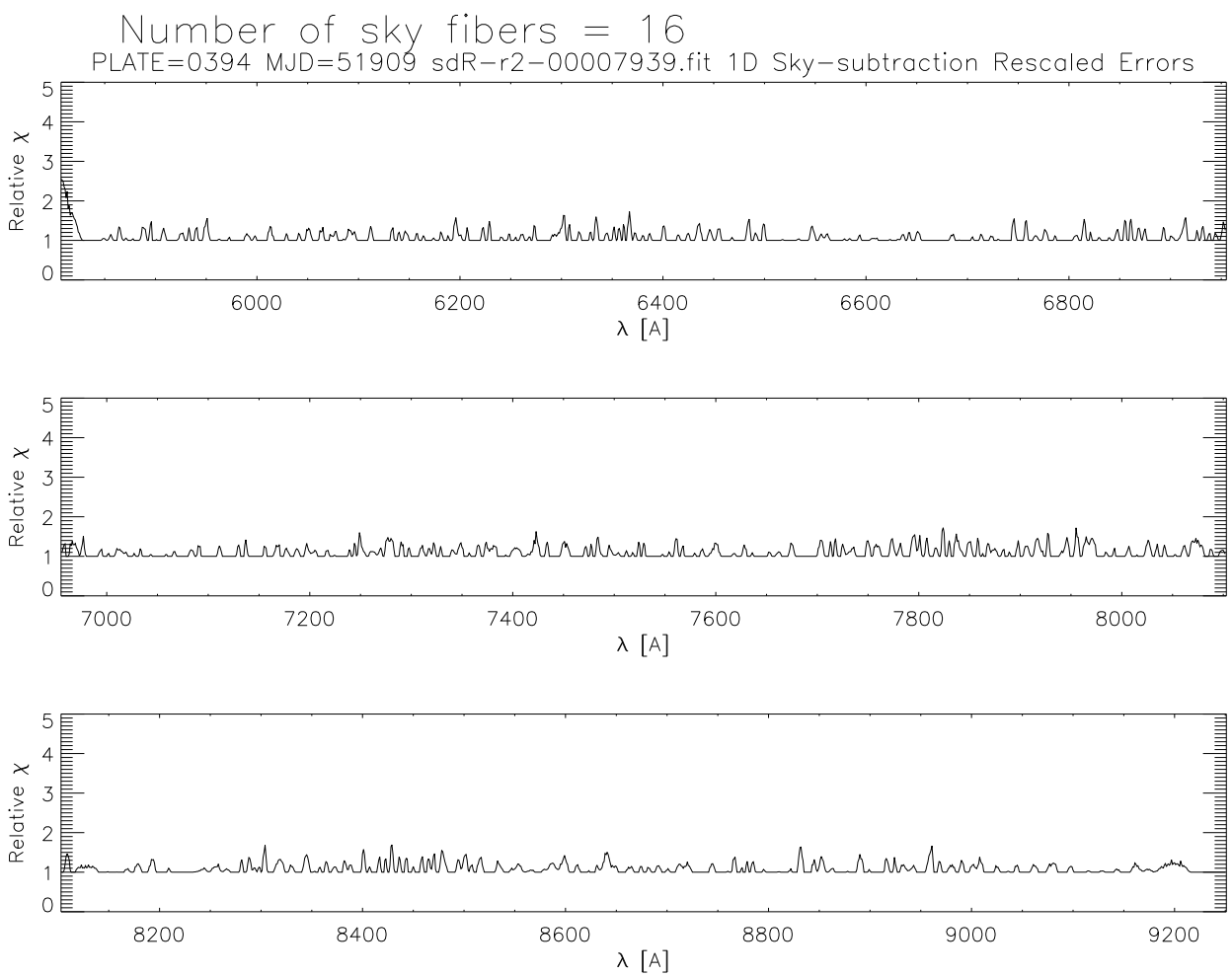

0.00
−0.05
−0.10
−0.15
sky shift, pixels
5000
6000
7000
8000
9000
10000

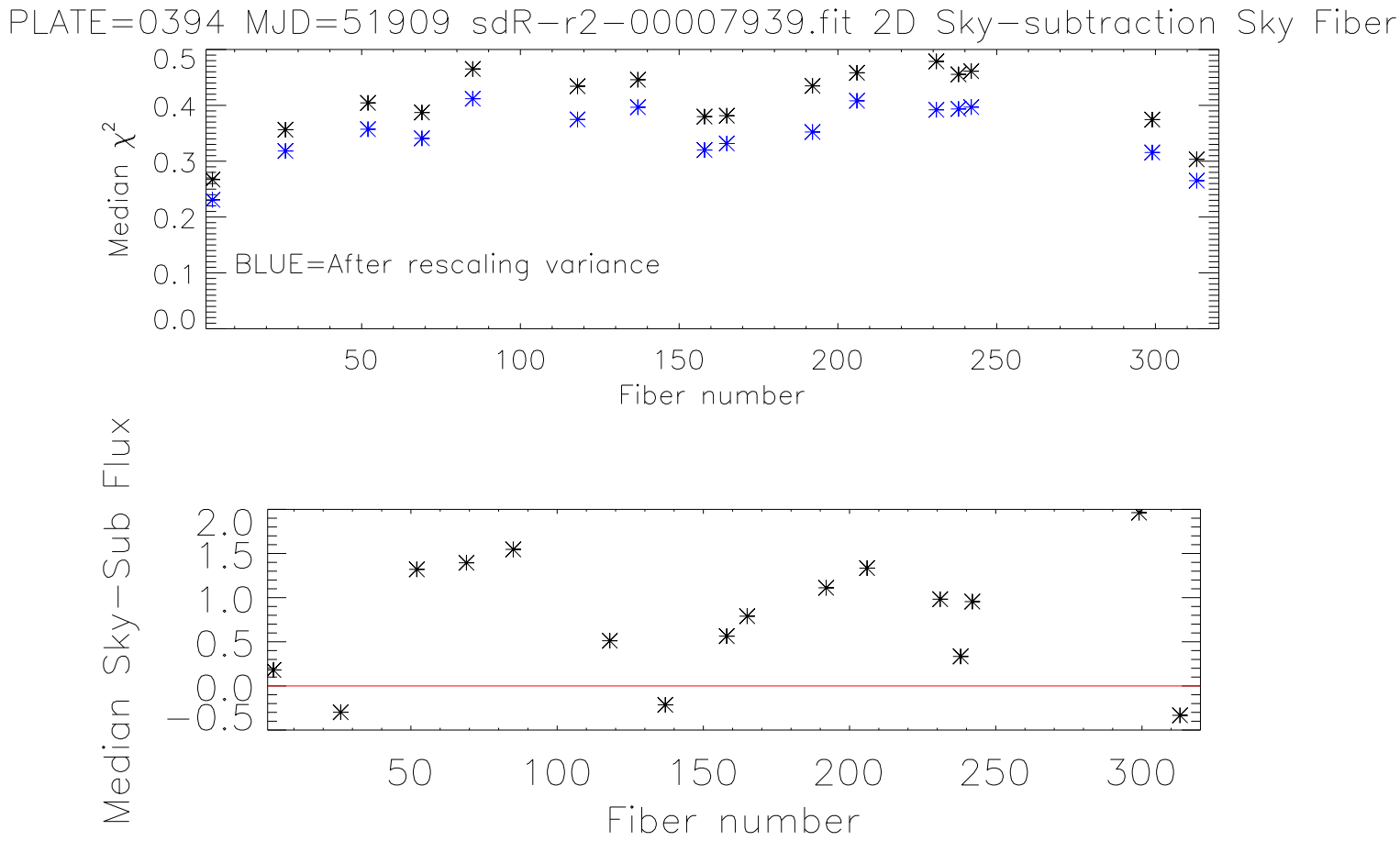

PLATE=0394 MJD=51909 Smooth superflat for sdR-r2-00007939.fit
2.0
1.5
1.0
0.5
0.0
1.004
1.002
1.000
0.998
0.996
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

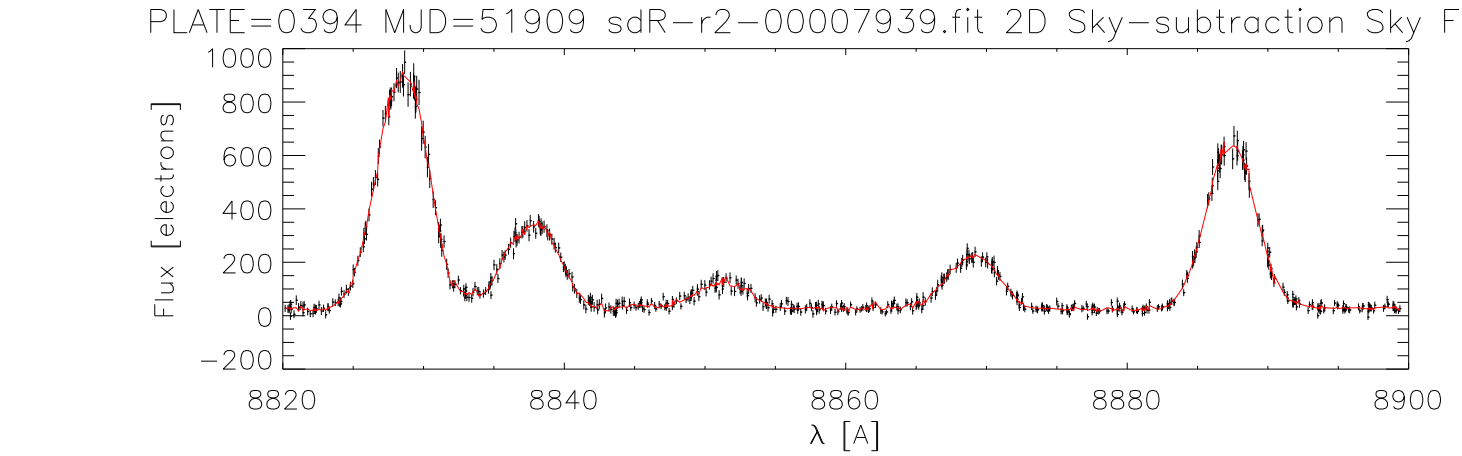

PLATE=0394 MJD=51909 sdR-r2-00007939.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
50
100
150
200
250
300
Fiber number

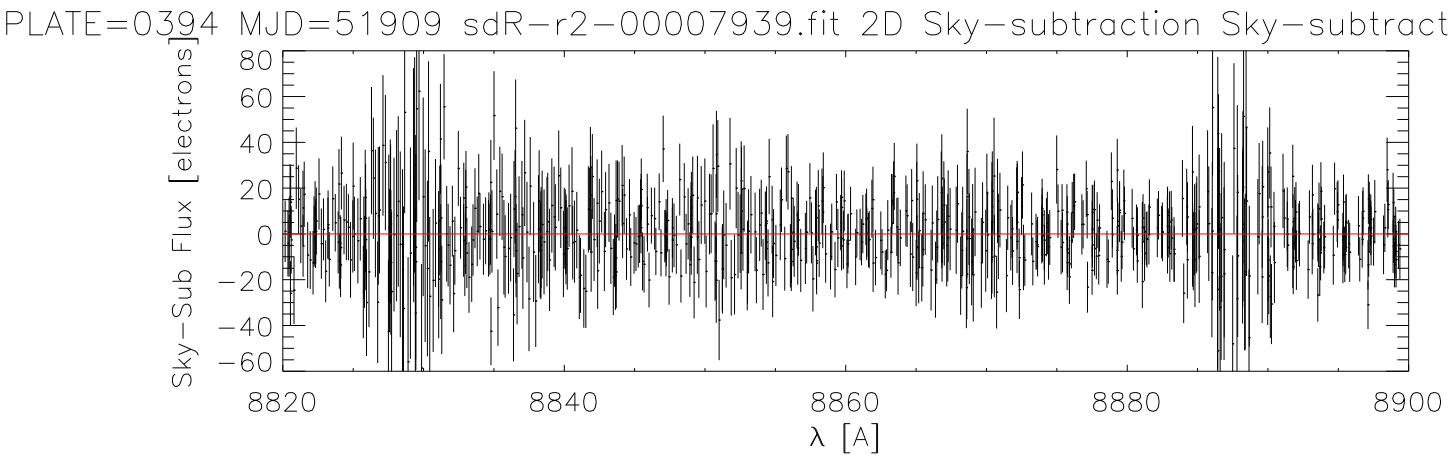

PLATE=0394 MJD=51909 sdR-r2-00007939.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1000
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

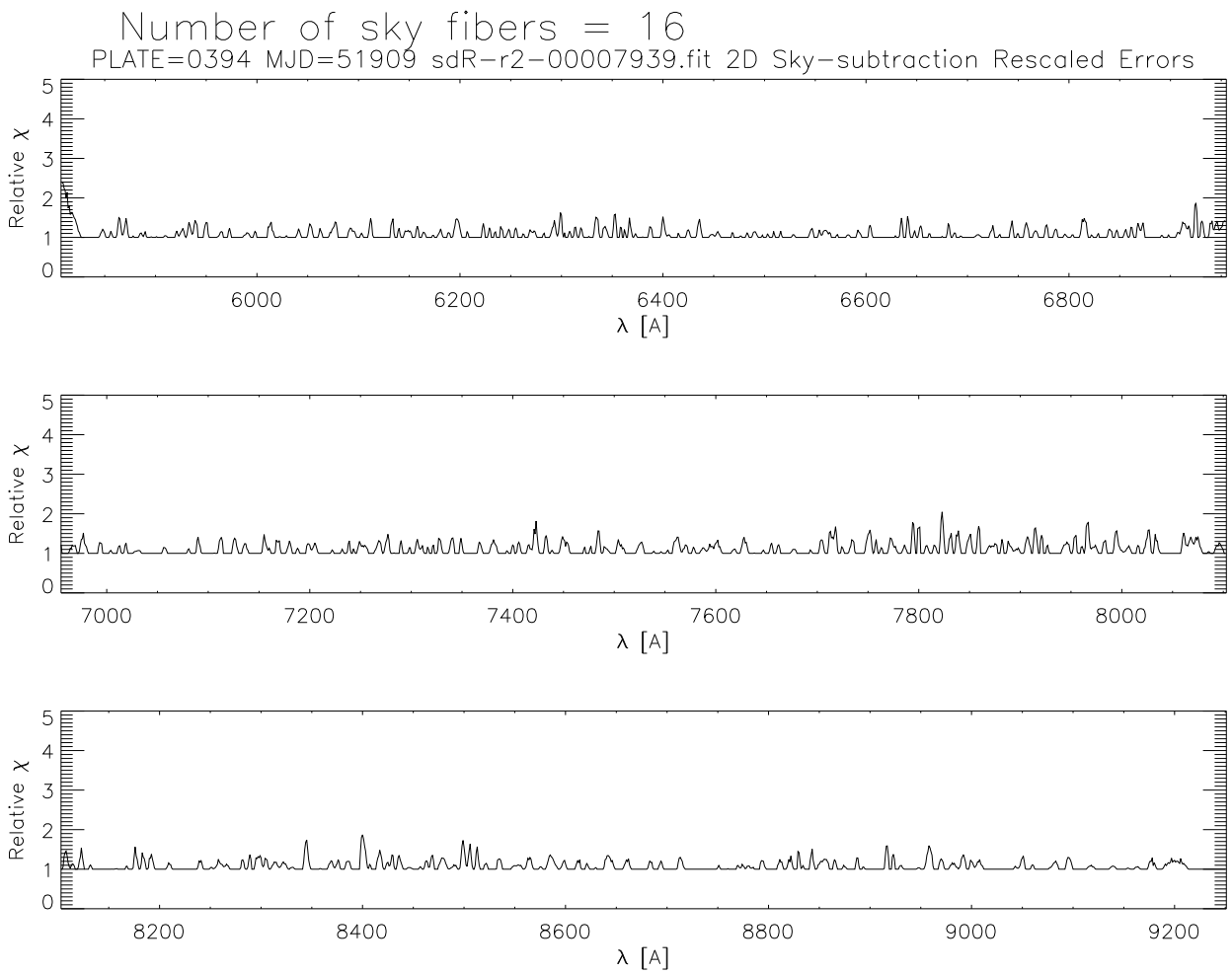

PLATE=0394 MJD=51909 sdR-r2-00007939.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
8820
8840
8860
8880
8900
λ [A]

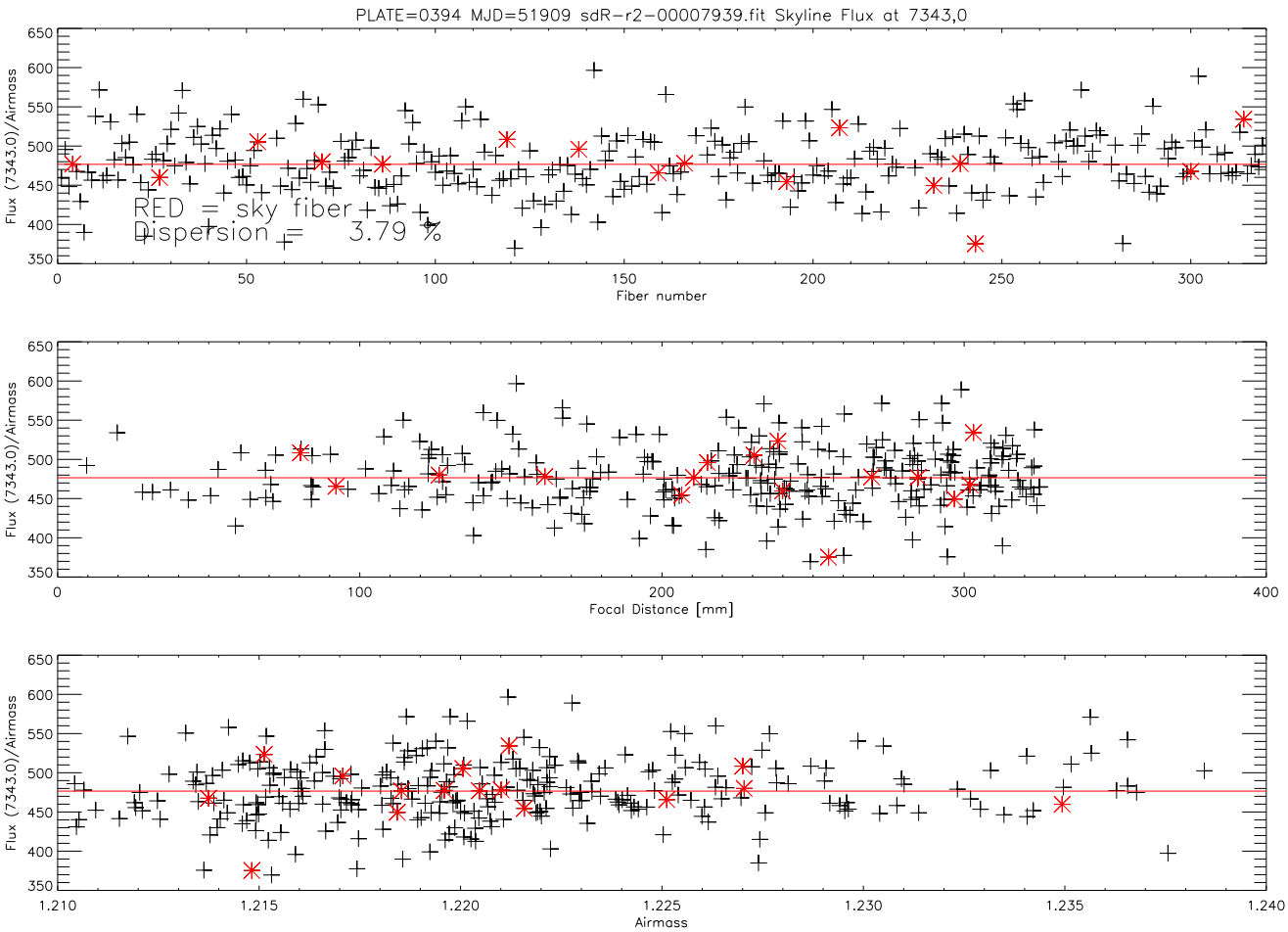

Number of sky fibers = 16
PLATE=0394 MJD=51909 sdR-r2-00007939.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

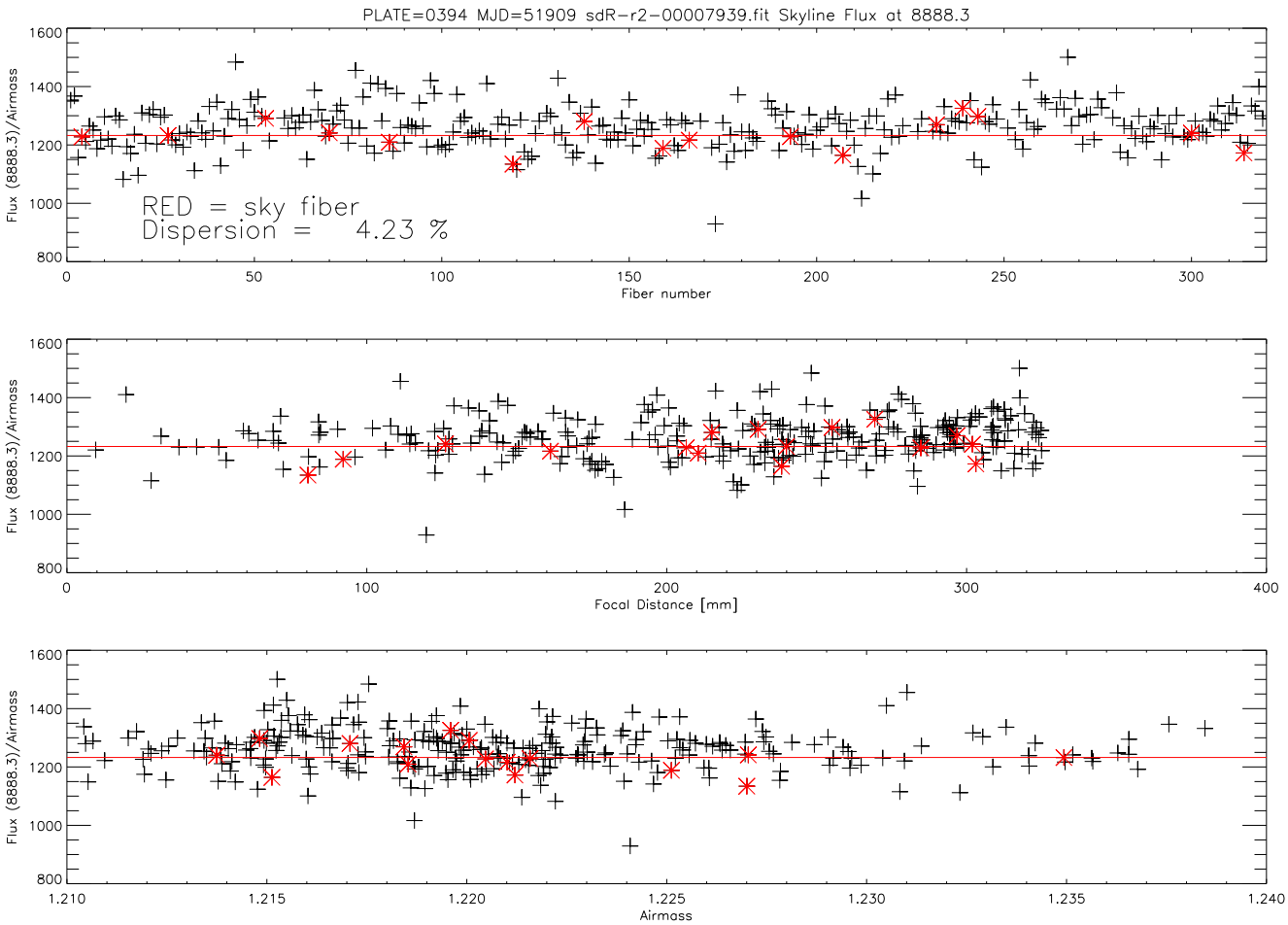

PLATE=0394 MJD=51909 sdR-r2-00007939.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

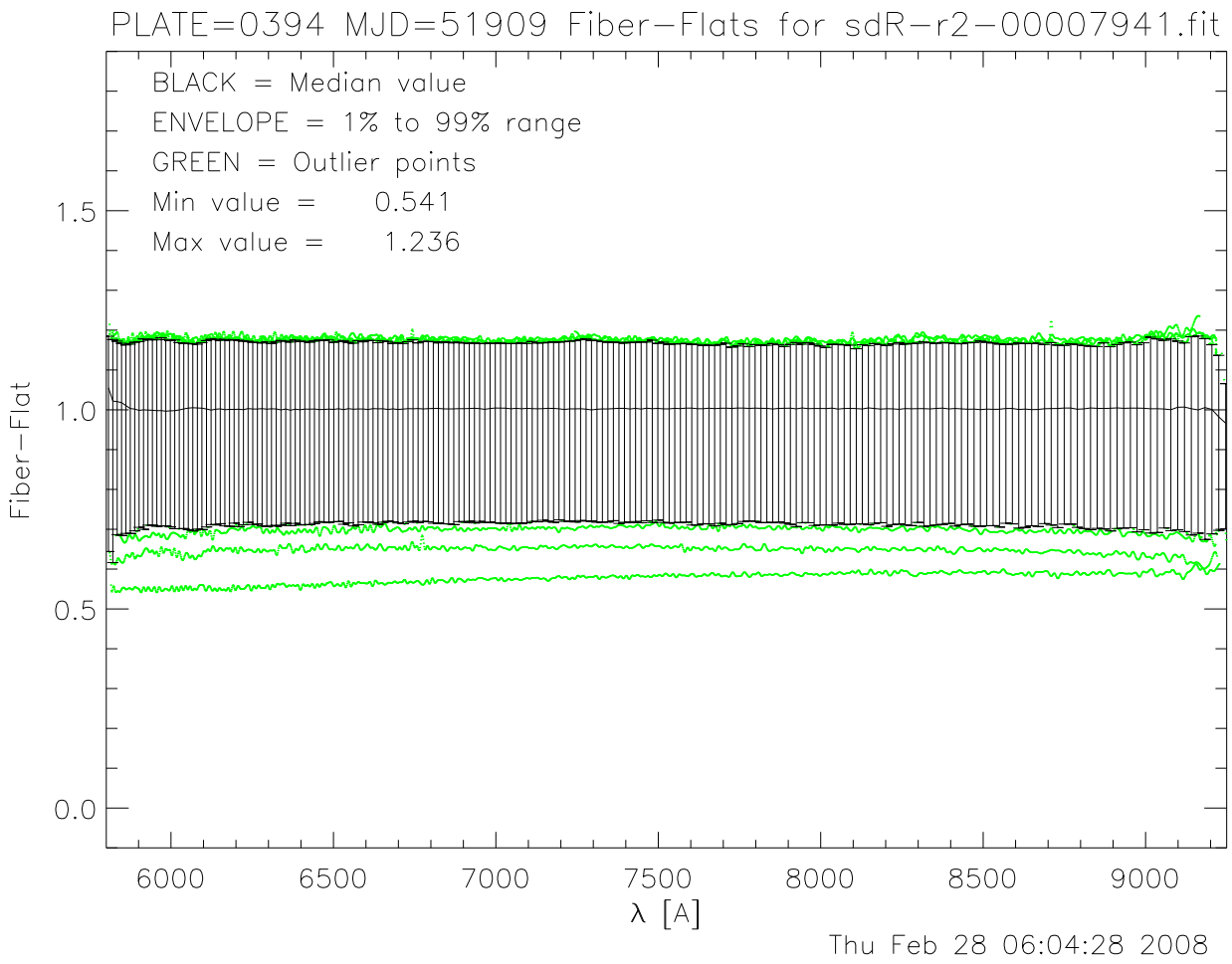

PLATE=0394 MJD=51909 sdR-r2-00007939.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1000
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

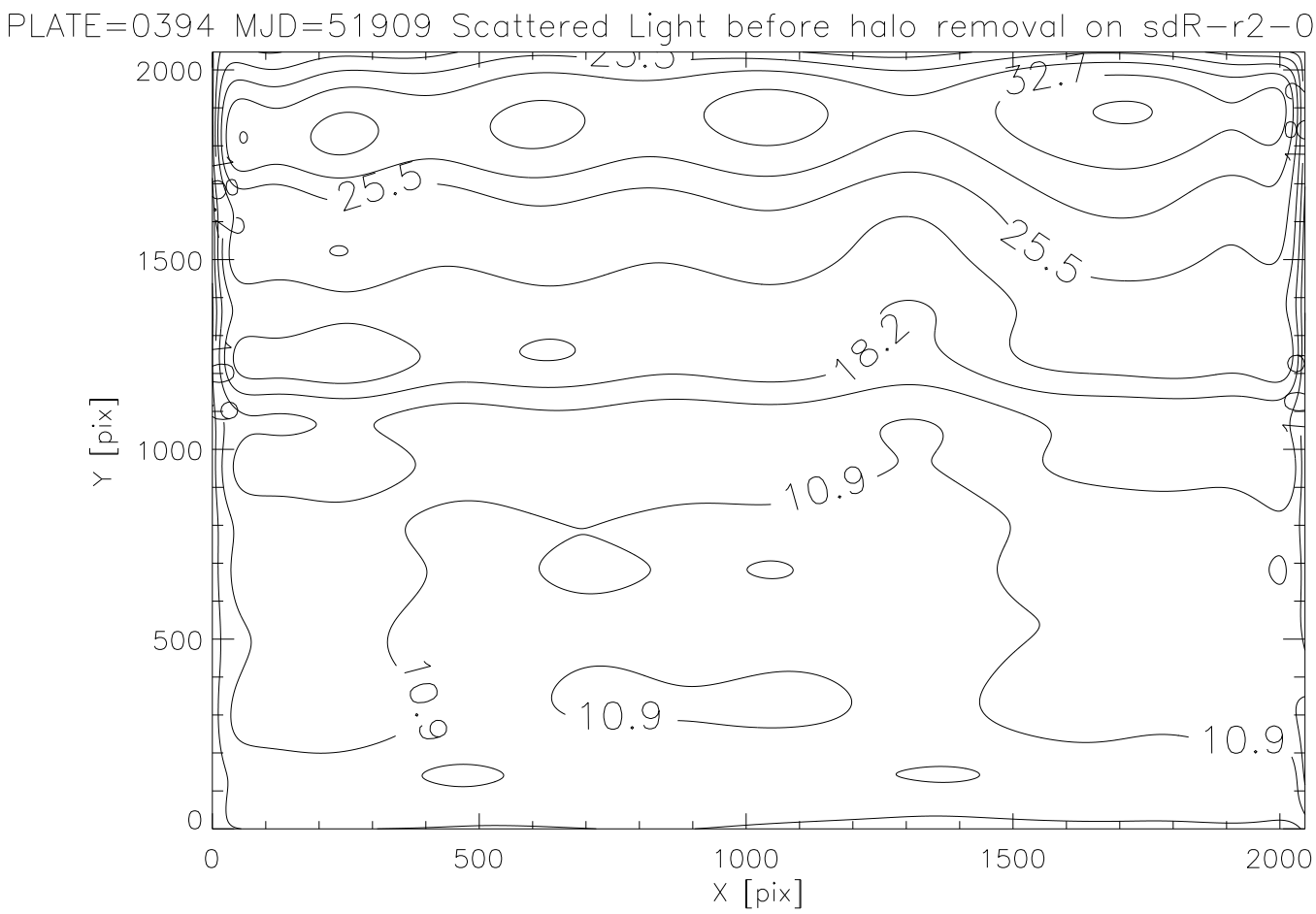

PLATE=0394 MJD=51909 sdR-r2-00007939.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
80
60
40
20
0
-20
-40
-60
8820
8840
8860
8880
8900
λ [A]

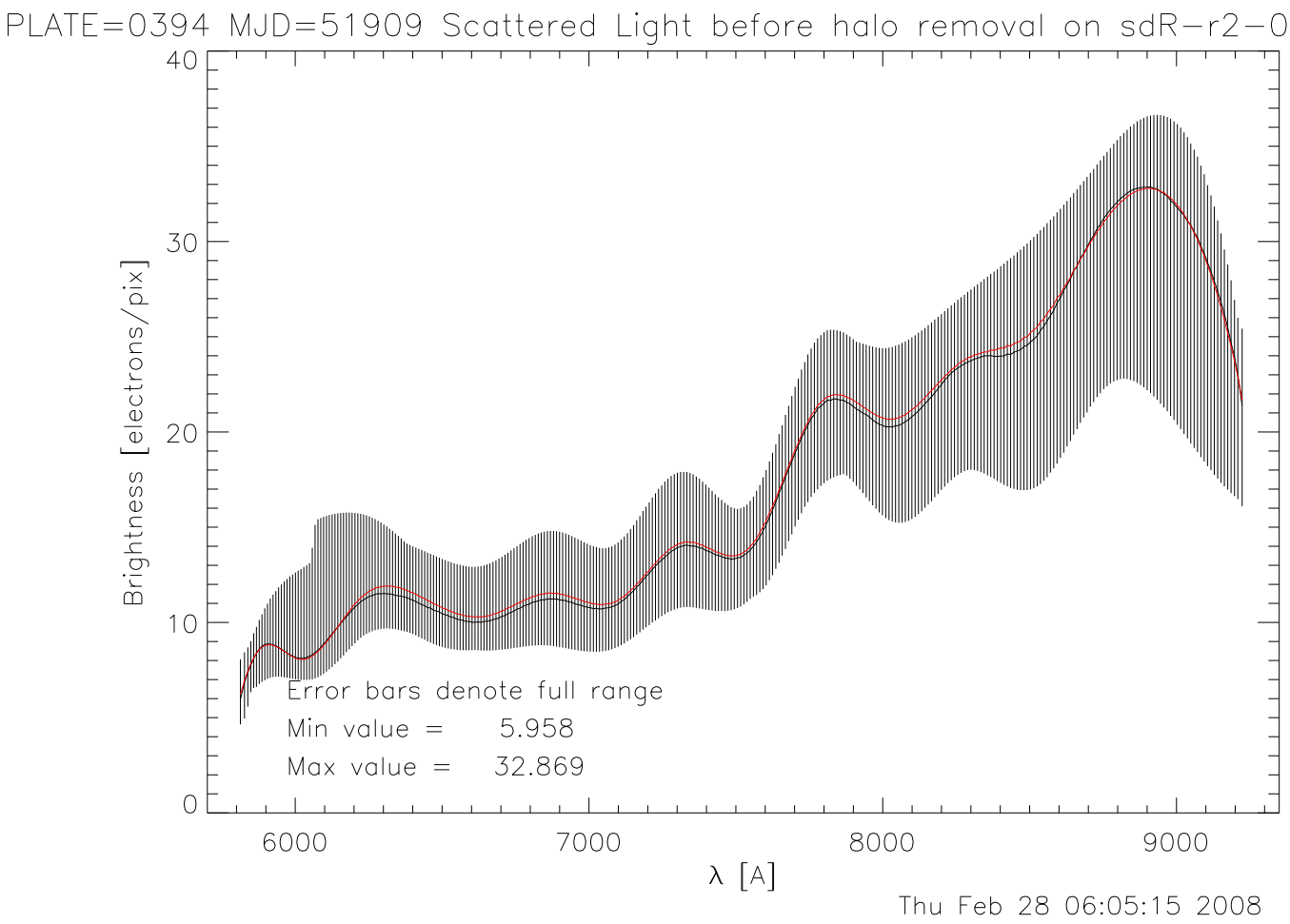

Number of sky fibers = 16
PLATE=0394 MJD=51909 sdR-r2-00007939.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

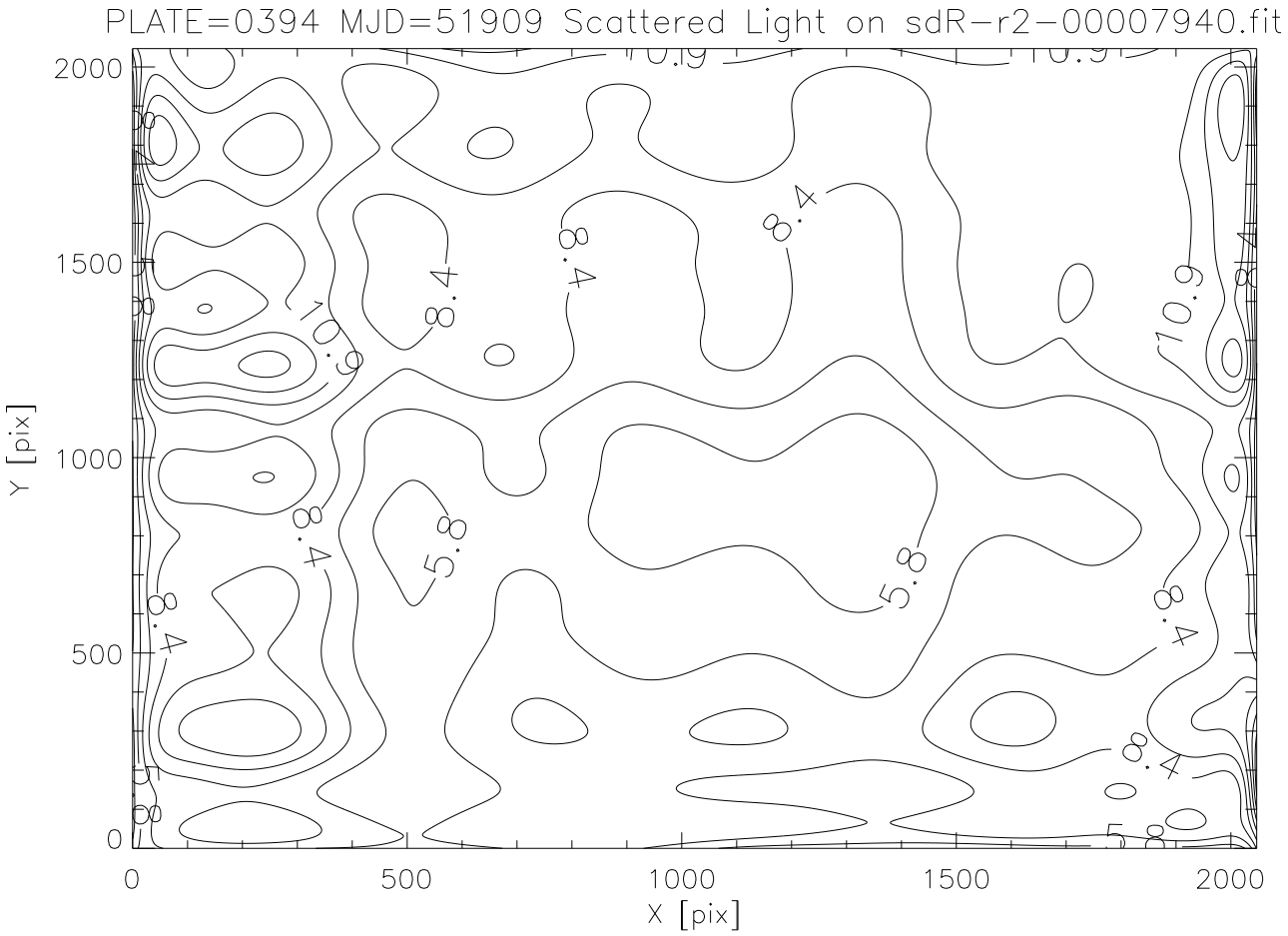

PLATE=0394 MJD=51909 sdR-r2-00007939.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 3.79 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

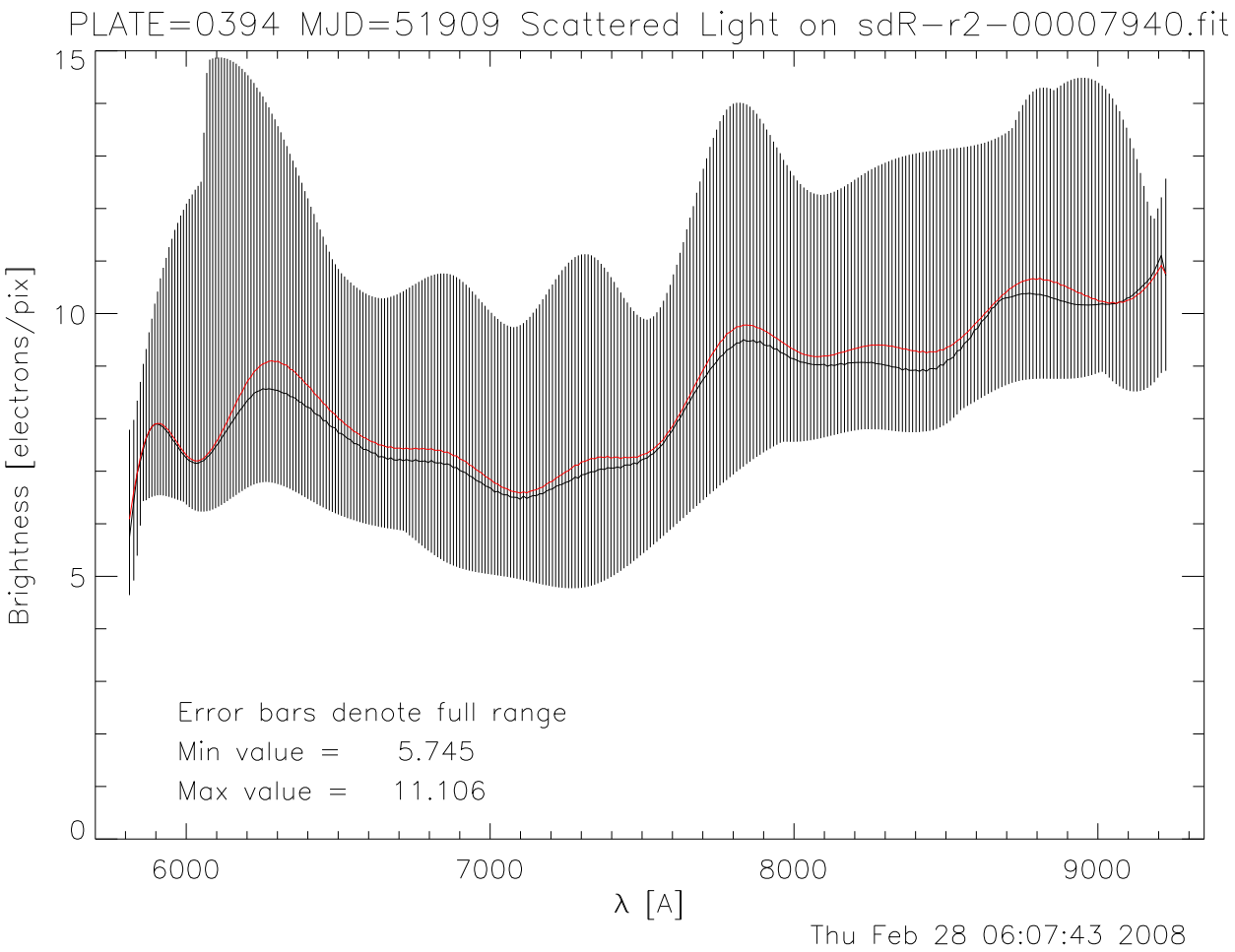

PLATE=0394 MJD=51909 sdR-r2-00007939.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 4.23 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

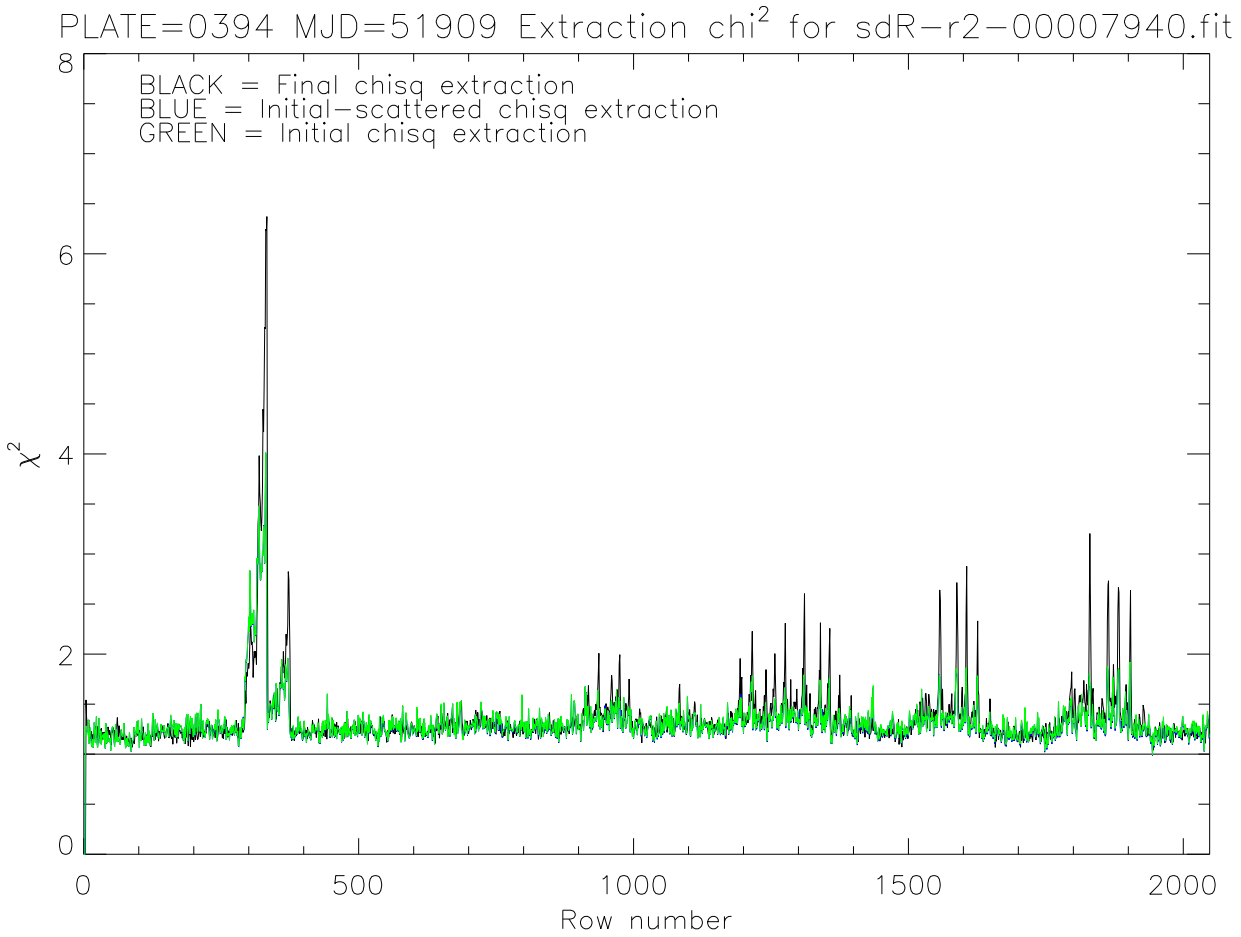

PLATE=0394 MJD=51909 Fiber−Flats for sdR−r2−00007941.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.541
Max value = 1.236
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Thu Feb 28 06:04:28 2008

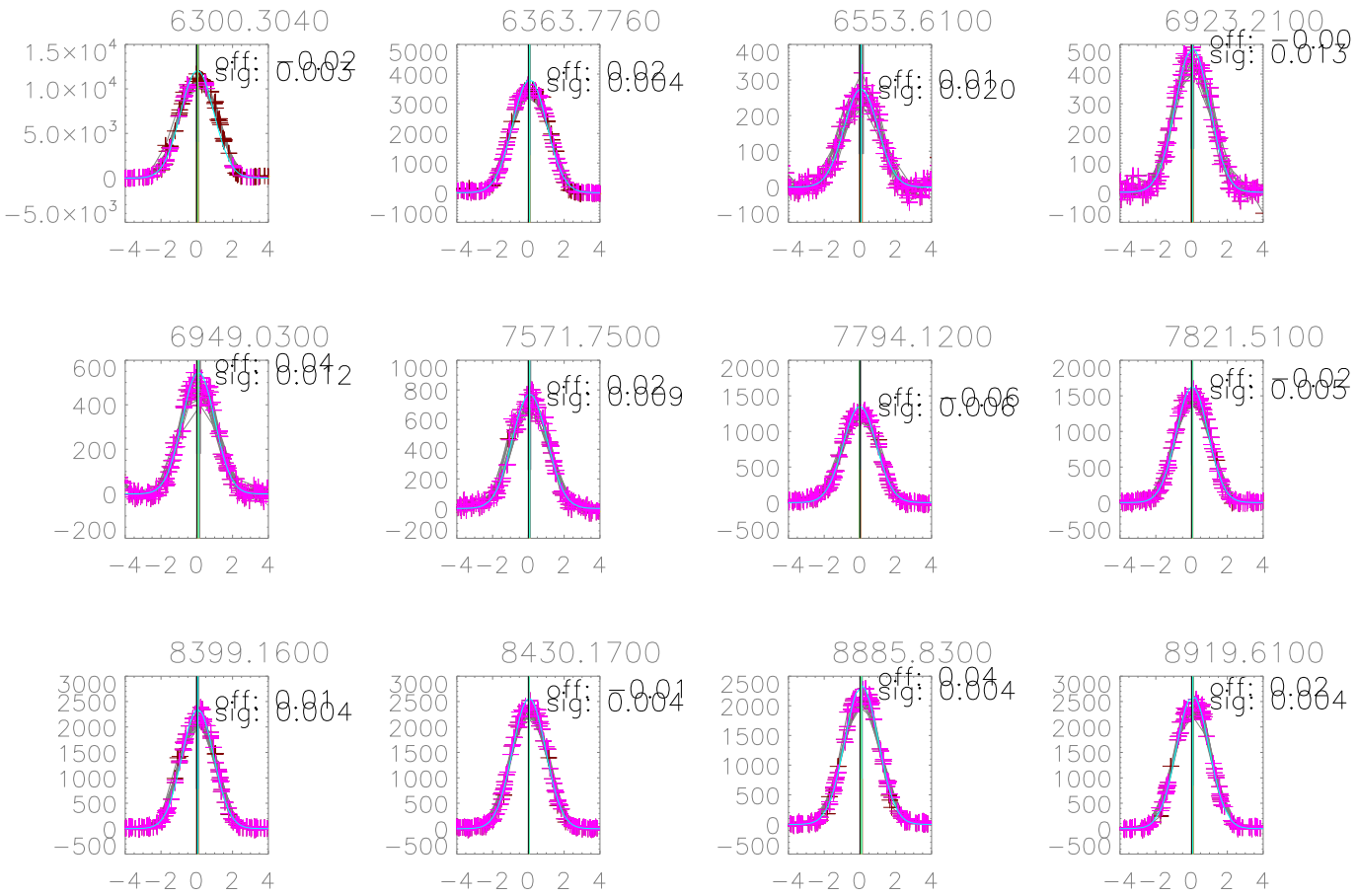

PLATE=0394 MJD=51909 Scattered Light before halo removal on sdR-r2-00007940.fi
25.5
32.7
25.5
25.5
18.2
10.9
0
10.9
10.9
10.9
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

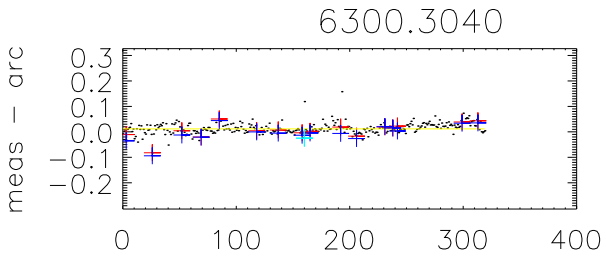

PLATE=0394 MJD=51909 Scattered Light before halo removal on sdR-r2-00007940.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.958
Max value = 32.869
Thu Feb 28 06:05:15 2008

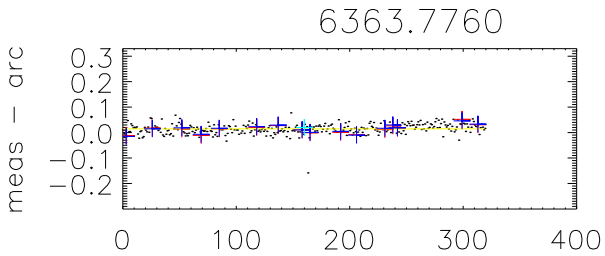

PLATE=0394 MJD=51909 Scattered Light on sdR-r2-00007940.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
10.9
8.4
5.8

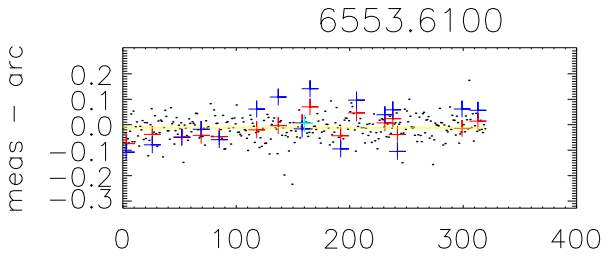

PLATE=0394 MJD=51909 Scattered Light on sdR-r2-00007940.fit
Brightness [electrons/pix]
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 5.745
Max value = 11.106
Thu Feb 28 06:07:43 2008

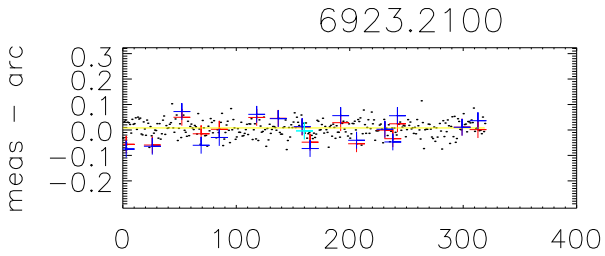

PLATE=0394 MJD=51909 Extraction chi^2 for sdR-r2-00007940.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

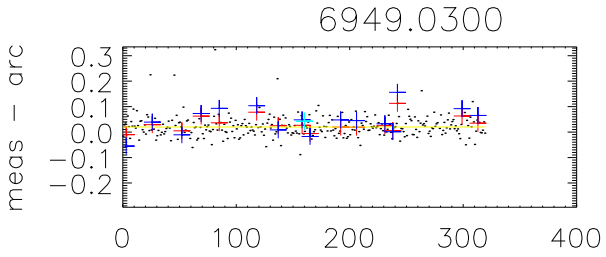

6300.3040
off: −0.02
sig: 0.003
6363.7760
off: 0.02
sig: 0.004
6553.6100
off: 0.01
sig: 0.020
6923.2100
off: −0.00
sig: 0.013
6949.0300
off: 0.04
sig: 0.012
7571.7500
off: 0.02
sig: 0.009
7794.1200
off: −0.06
sig: 0.008
7821.5100
off: −0.02
sig: 0.005
8399.1600
off: 0.01
sig: 0.004
8430.1700
off: −0.01
sig: 0.004
8885.8300
off: 0.04
sig: 0.004
8919.6100
off: 0.02
sig: 0.004

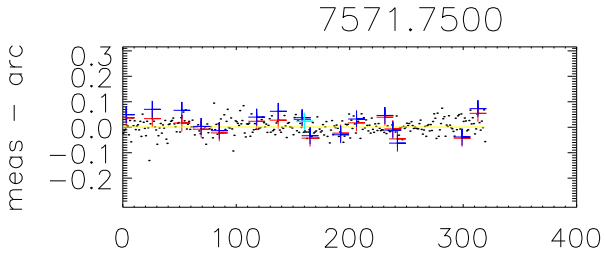

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

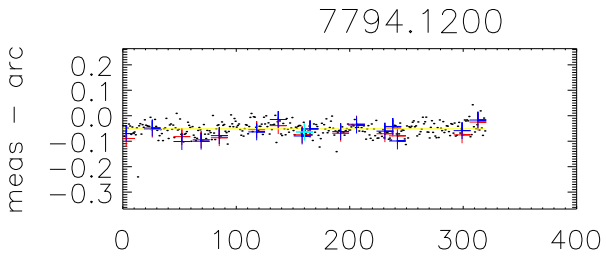

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

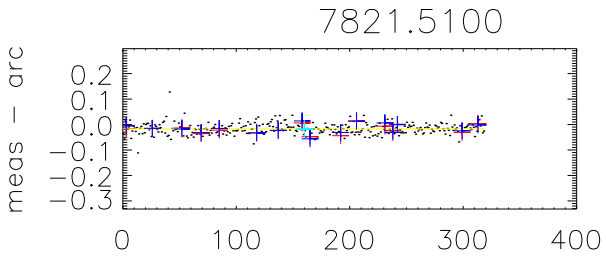

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

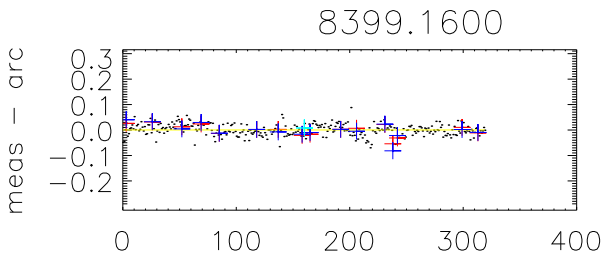

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

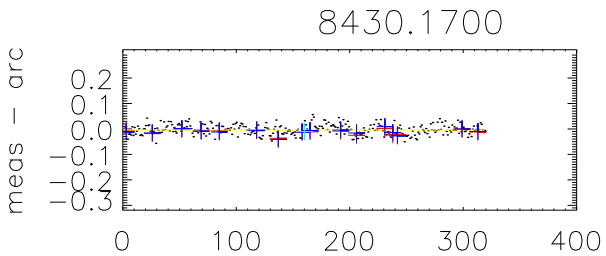

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

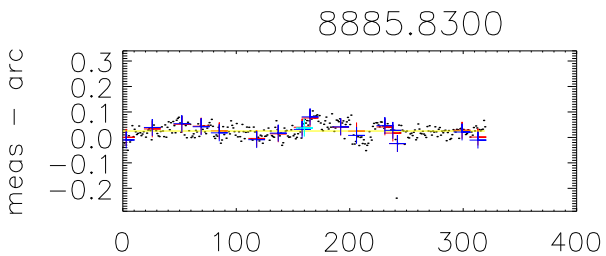

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

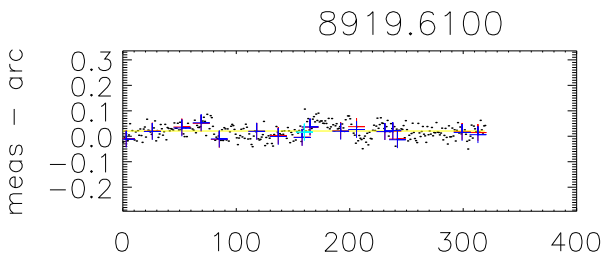

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

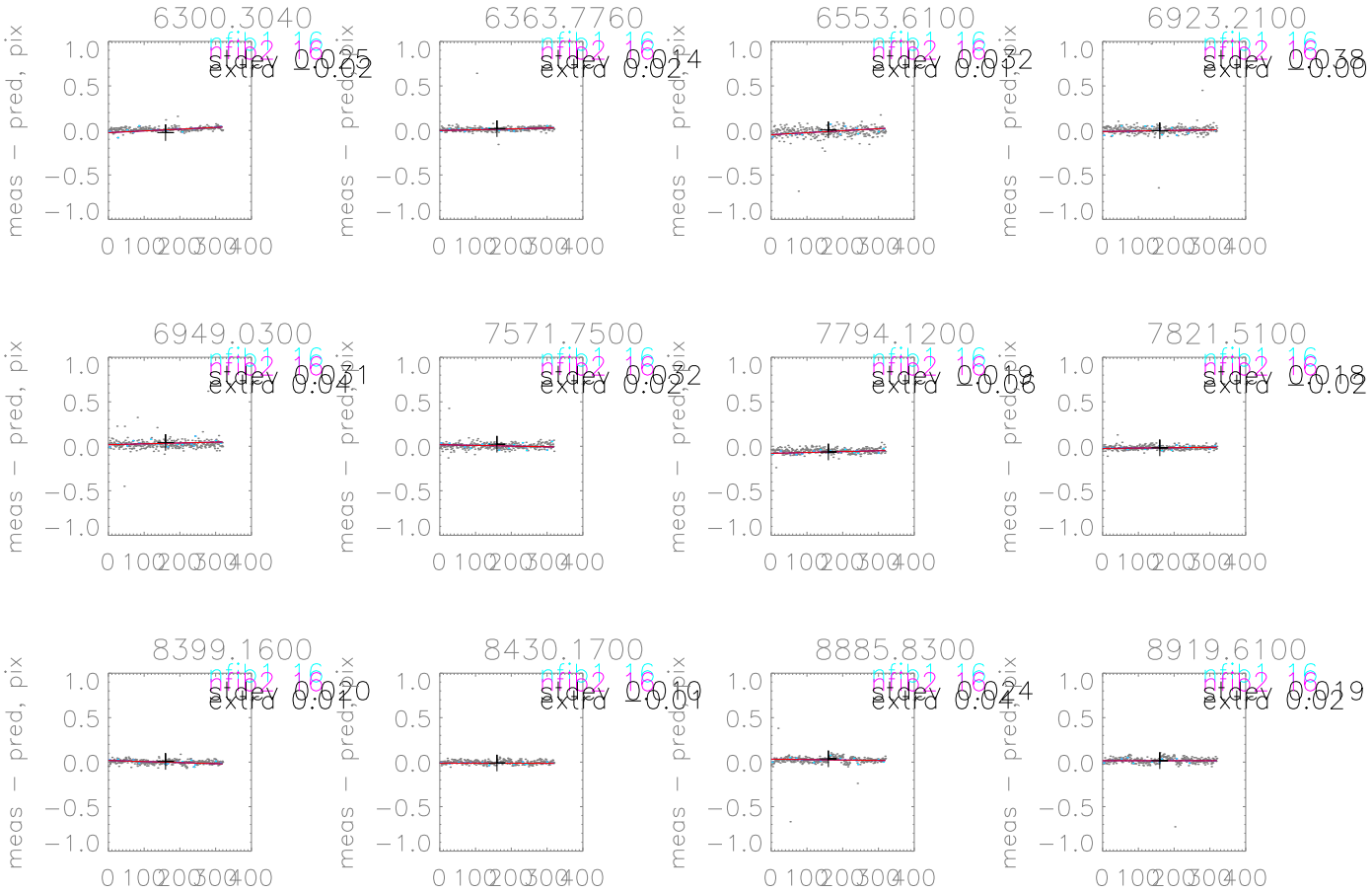

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

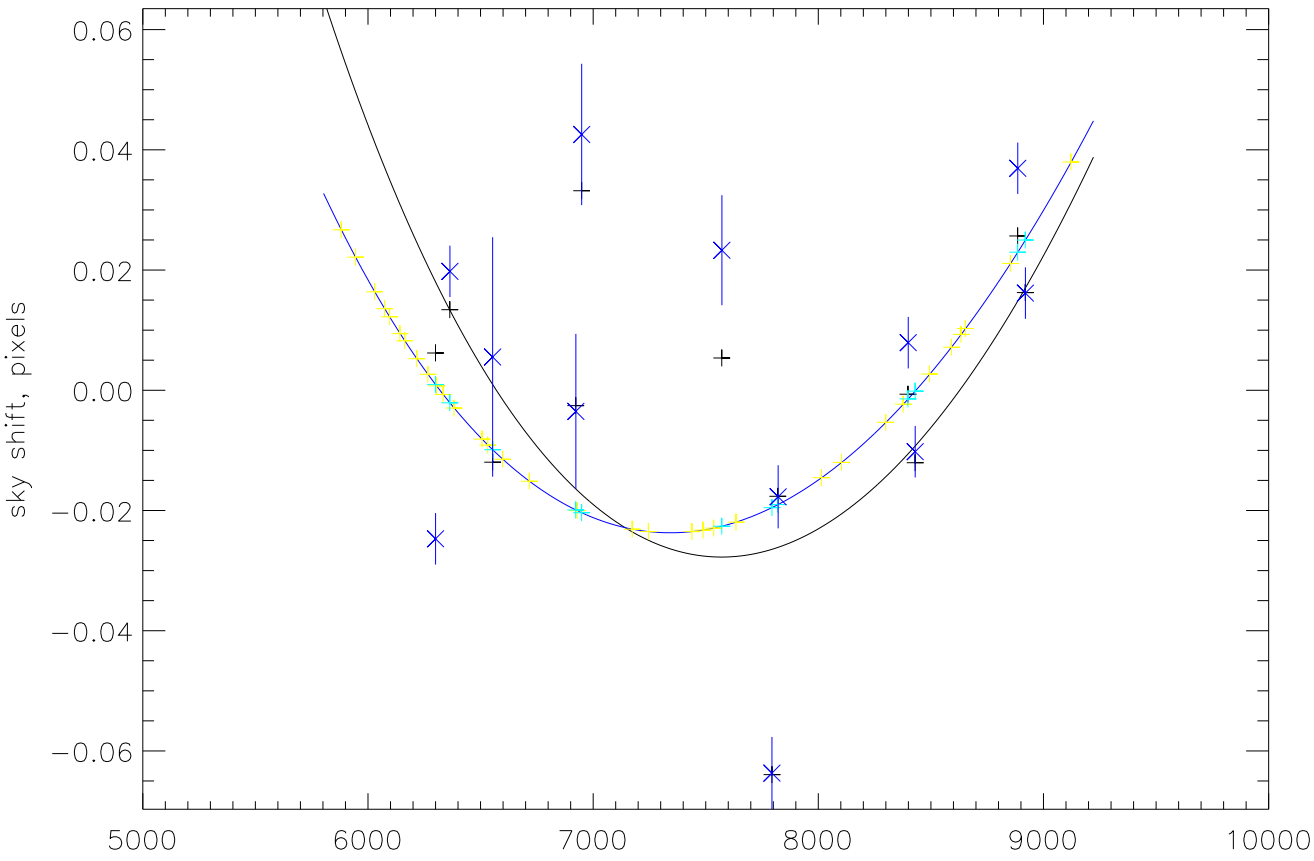

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

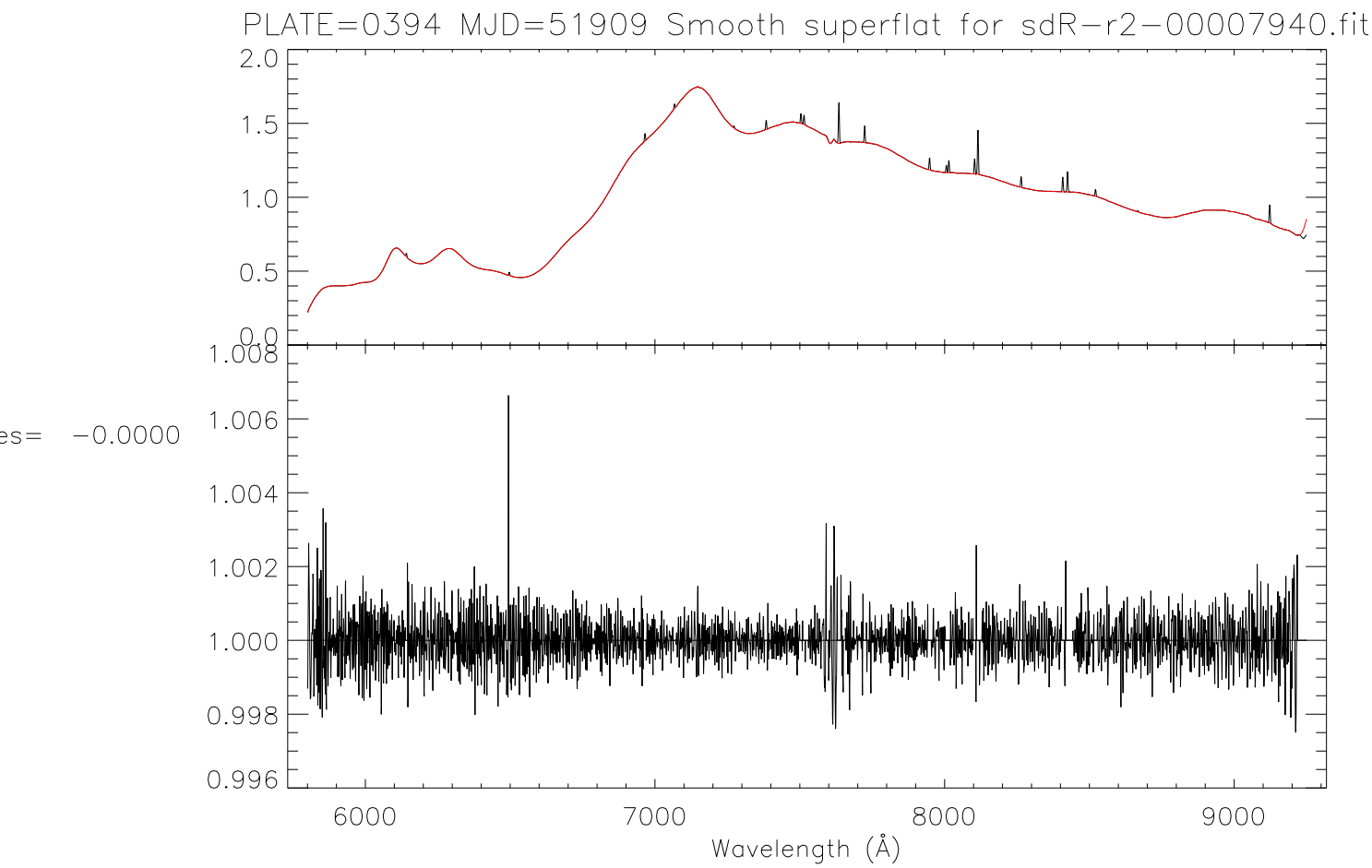

8430.1700
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

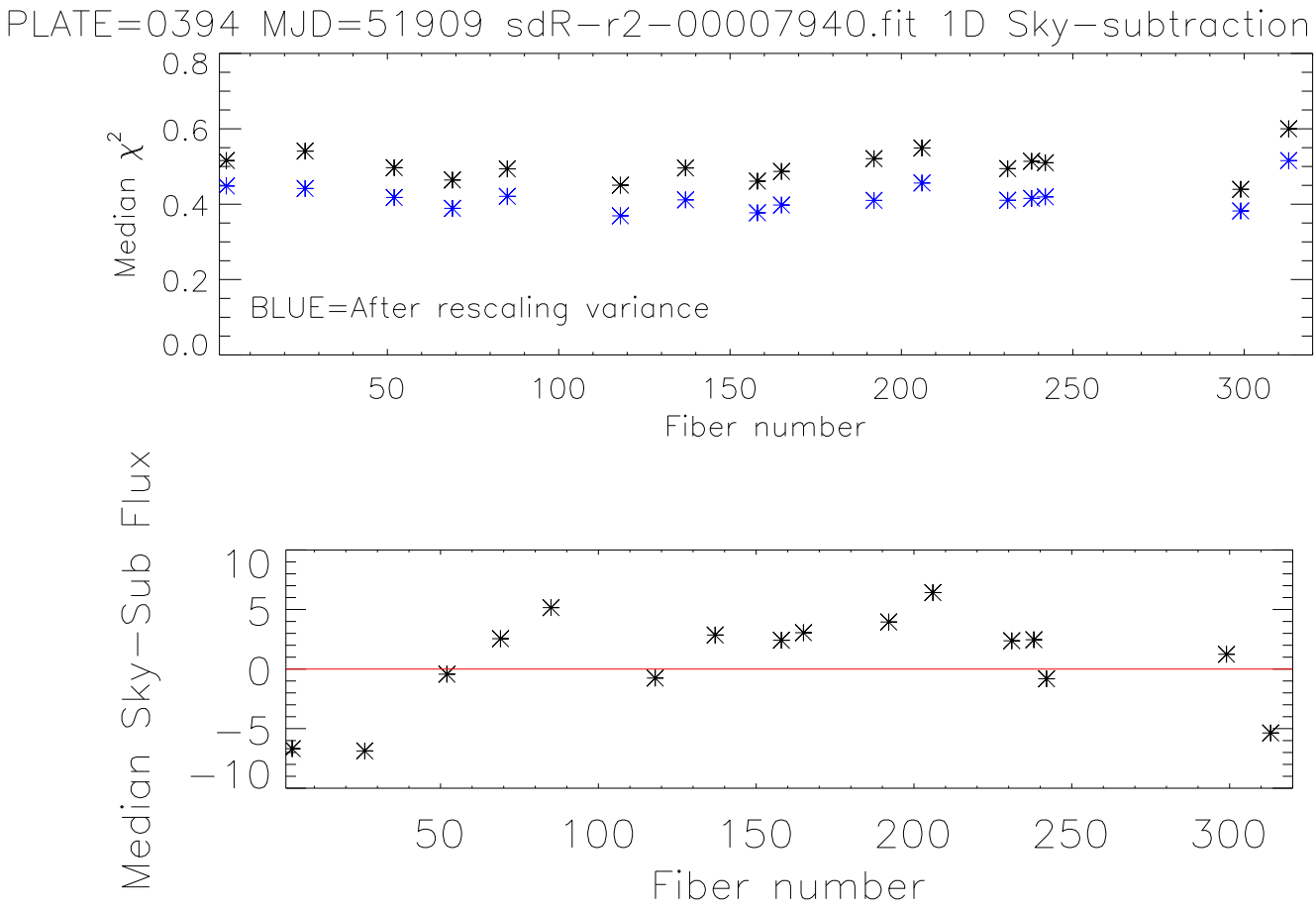

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

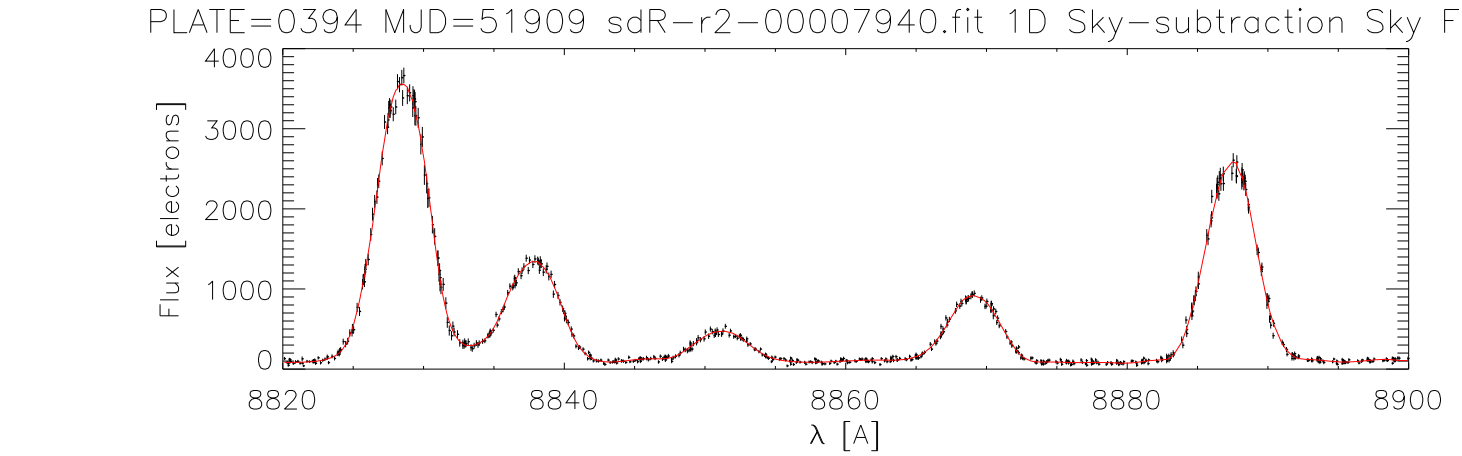

6300.3040
stdev 0.025
extra −0.02
6363.7760
stdev 0.024
extra 0.02
6553.6100
stdev 0.032
extra 0.01
6923.2100
stdev 0.038
extra −0.00
6949.0300
stdev 0.031
extra 0.04
7571.7500
stdev 0.032
extra 0.02
7794.1200
stdev 0.019
extra −0.08
7821.5100
stdev 0.018
extra −0.02
8399.1600
stdev 0.020
extra 0.01
8430.1700
stdev 0.010
extra −0.01
8885.8300
stdev 0.024
extra 0.04
8919.6100
stdev 0.019
extra 0.02
meas − pred, pix
mfbx1 16
mfbx2 16

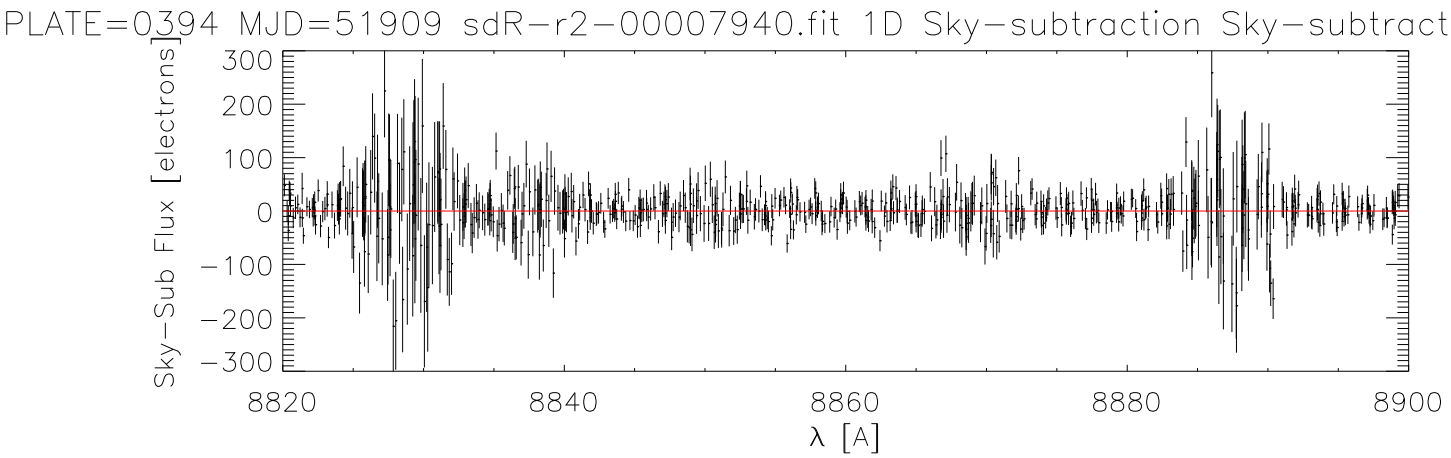

0.06
0.04
0.02
0.00
−0.02
−0.04
−0.06
sky shift, pixels
5000
6000
7000
8000
9000
10000

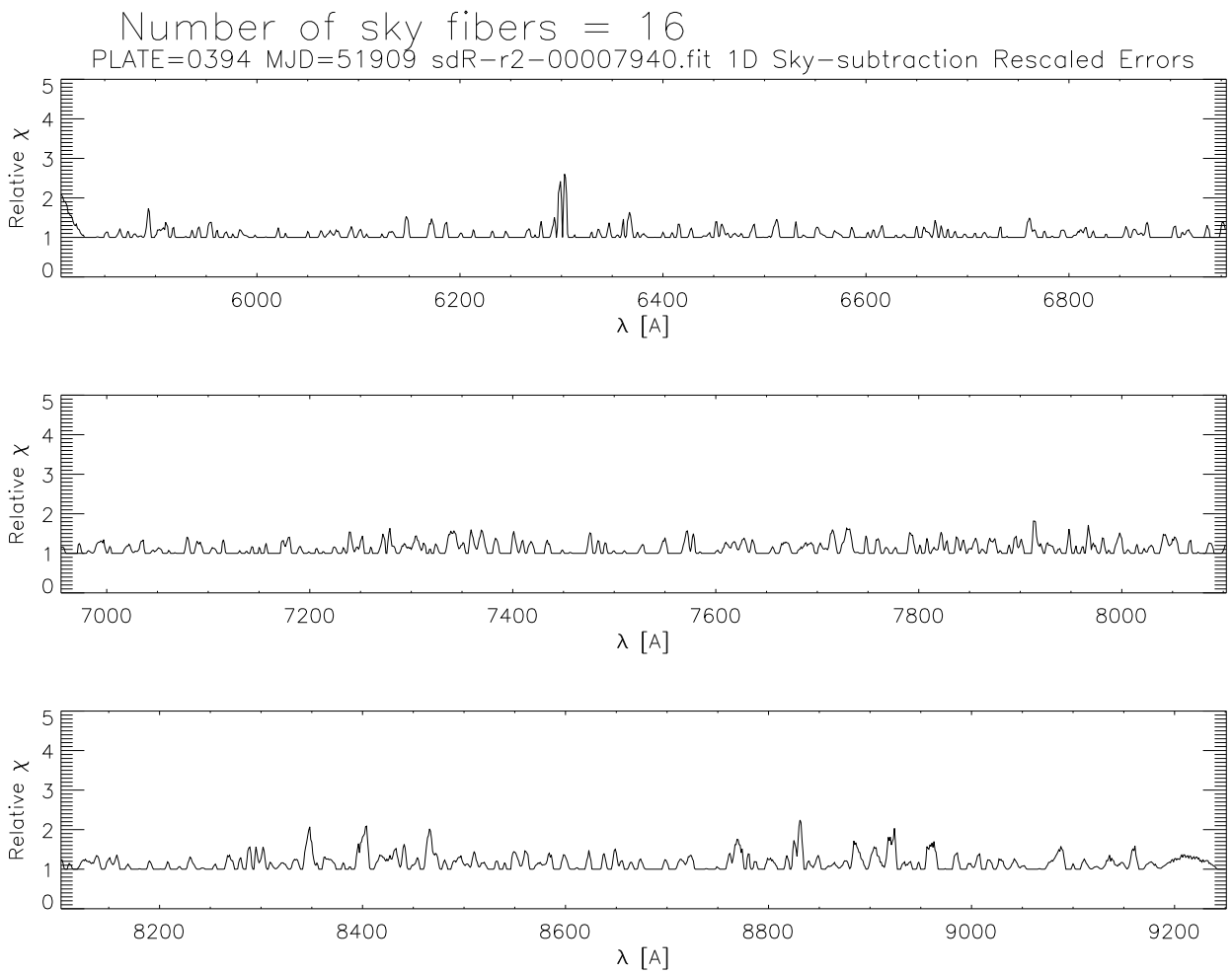

PLATE=0394 MJD=51909 Smooth superflat for sdR-r2-00007940.fit
2.0
1.5
1.0
0.5
0.0
1.008
1.006
1.004
1.002
1.000
0.998
0.996
6000
7000
8000
9000
Wavelength (Å)

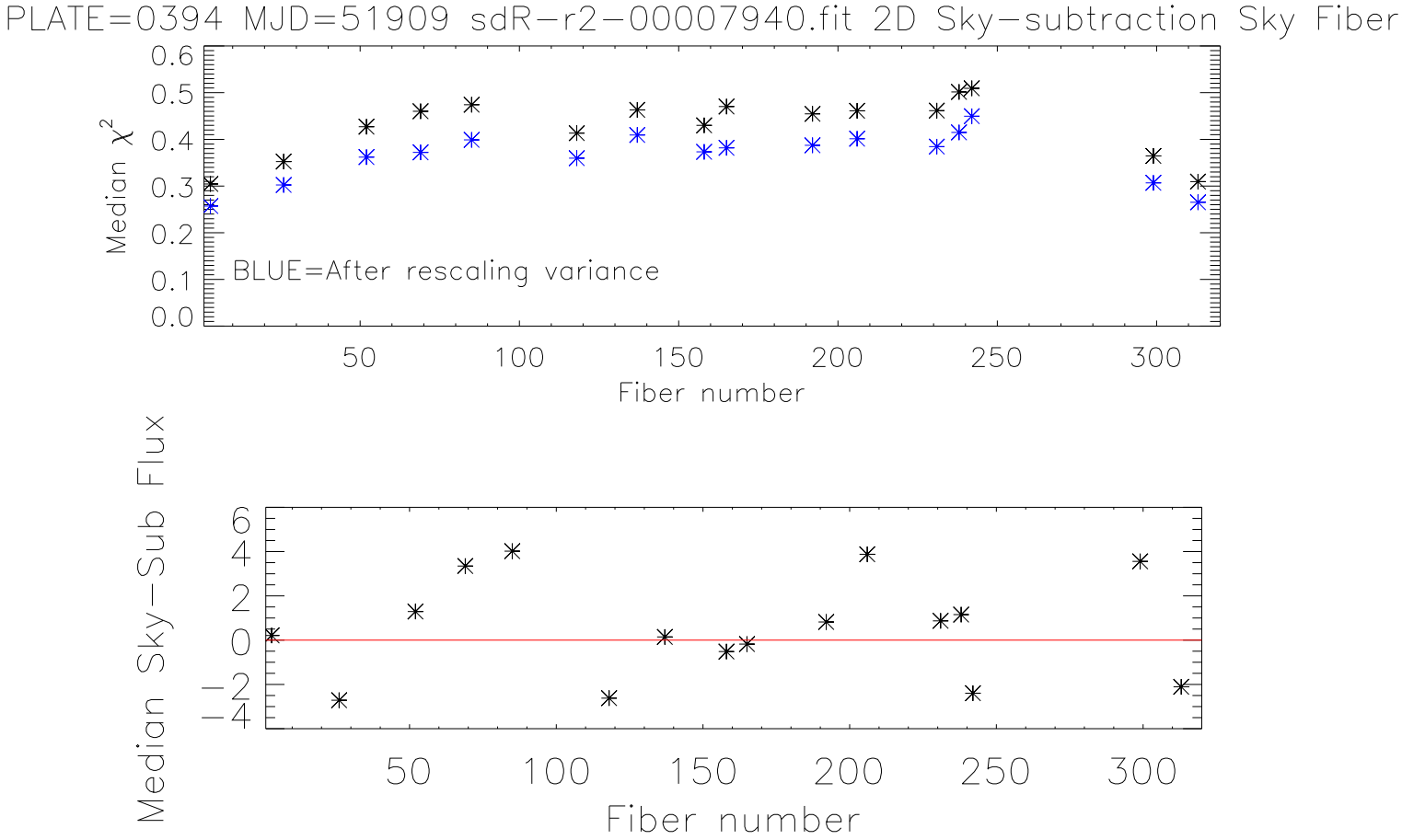
es= −0.0000

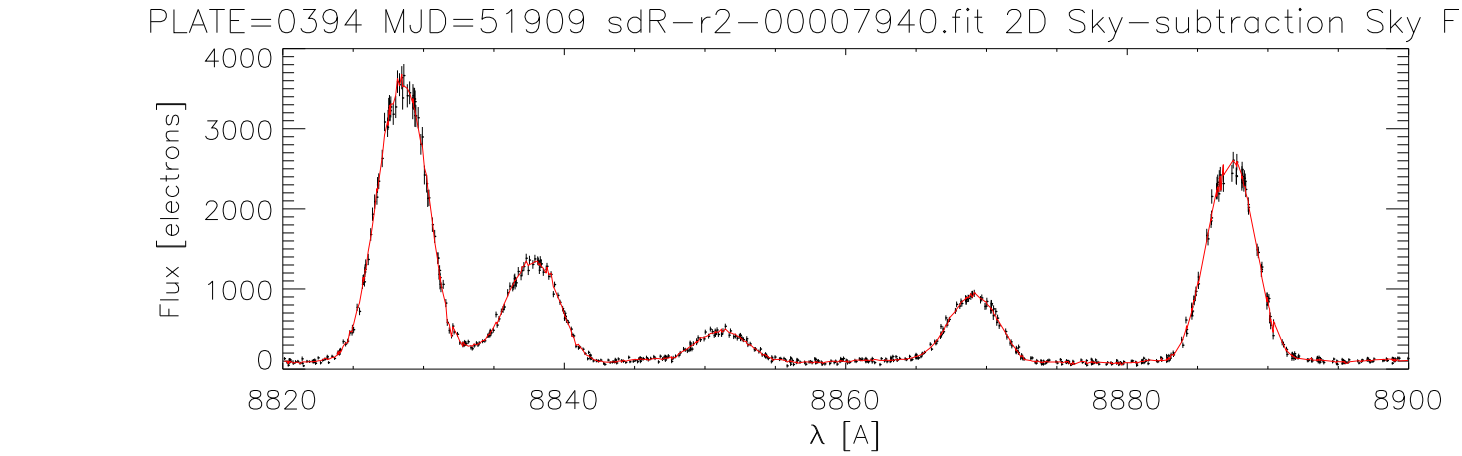

PLATE=0394 MJD=51909 sdR-r2-00007940.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

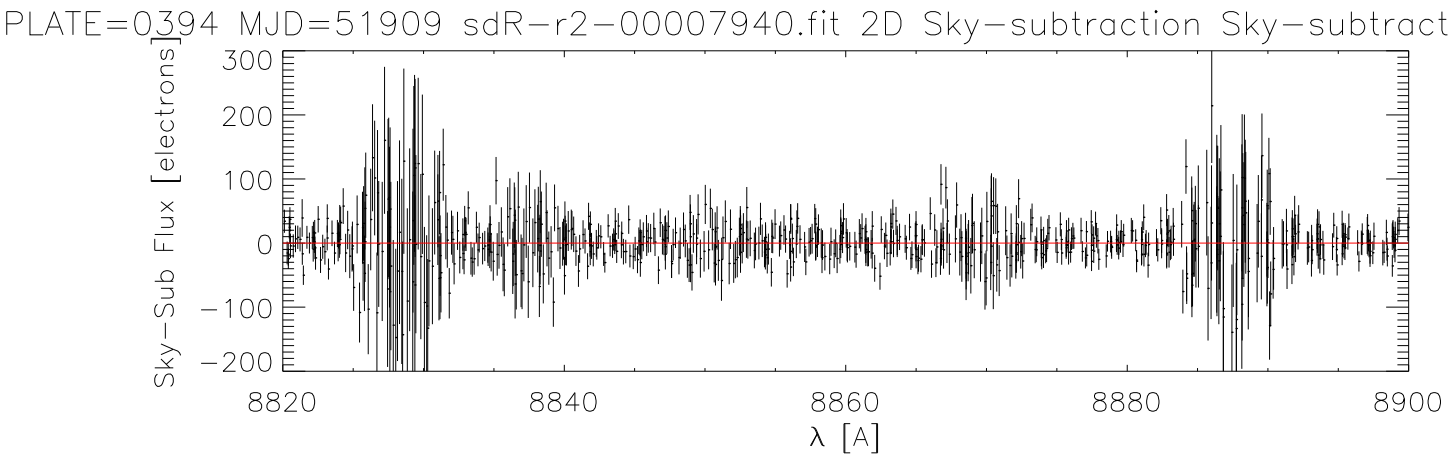

PLATE=0394 MJD=51909 sdR-r2-00007940.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

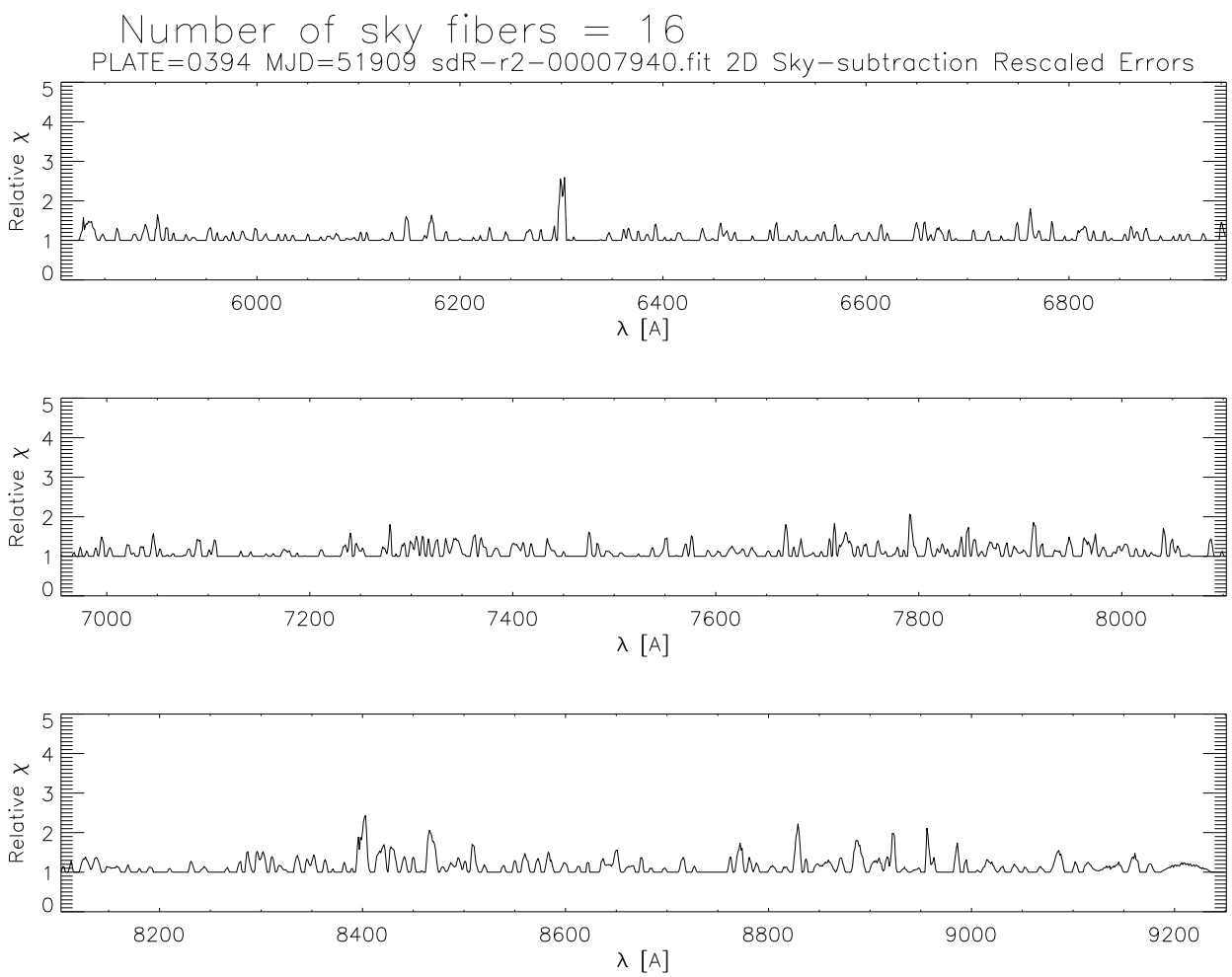

PLATE=0394 MJD=51909 sdR-r2-00007940.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

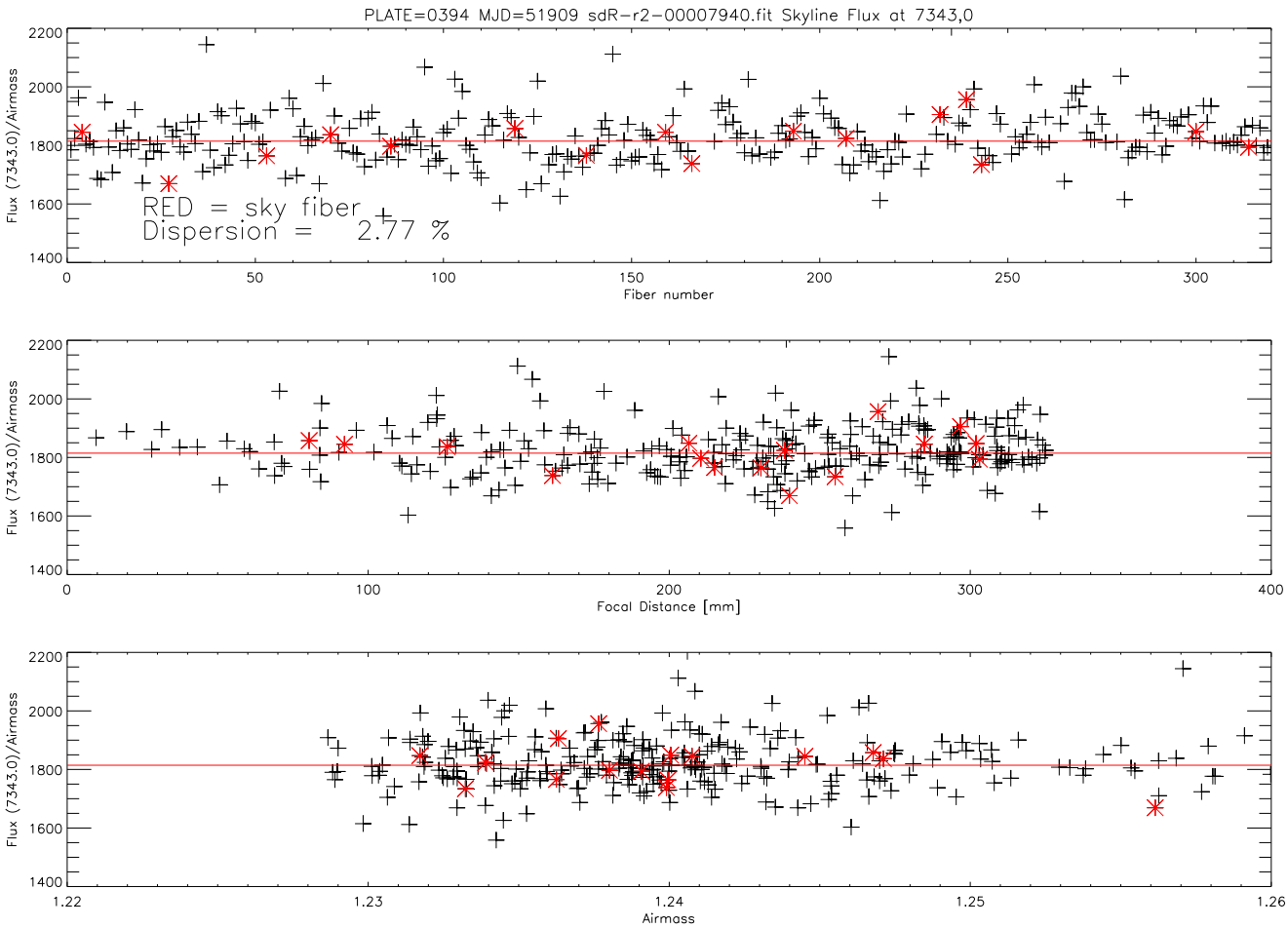

Number of sky fibers = 16
PLATE=0394 MJD=51909 sdR-r2-00007940.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

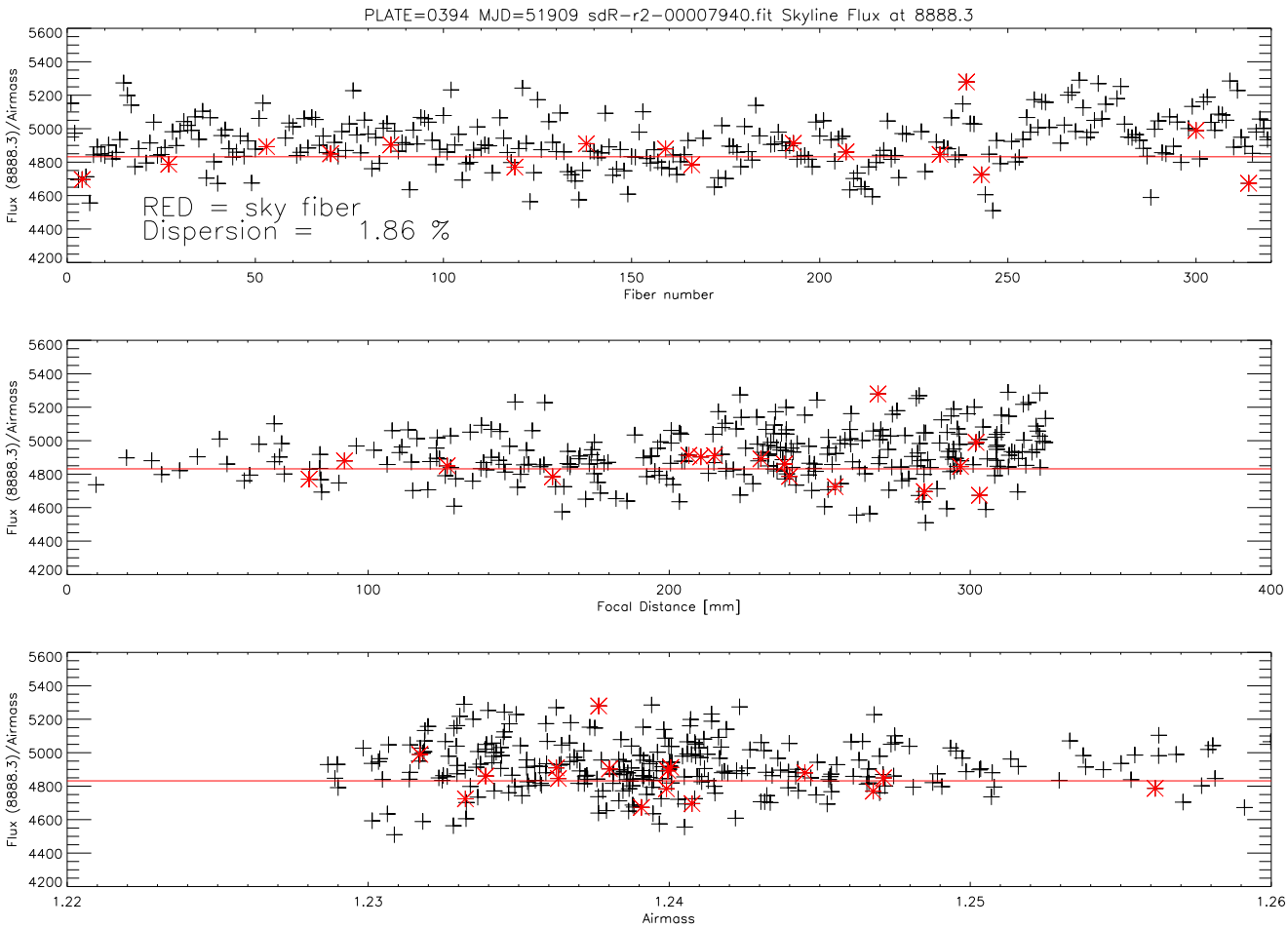

PLATE=0394 MJD=51909 sdR-r2-00007940.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number


PLATE=0394 MJD=51909 sdR-r2-00007940.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]


PLATE=0394 MJD=51909 sdR-r2-00007940.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]


Number of sky fibers = 16
PLATE=0394 MJD=51909 sdR-r2-00007940.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=0394 MJD=51909 sdR-r2-00007940.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.77 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass


PLATE=0394 MJD=51909 sdR-r2-00007940.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.86 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass