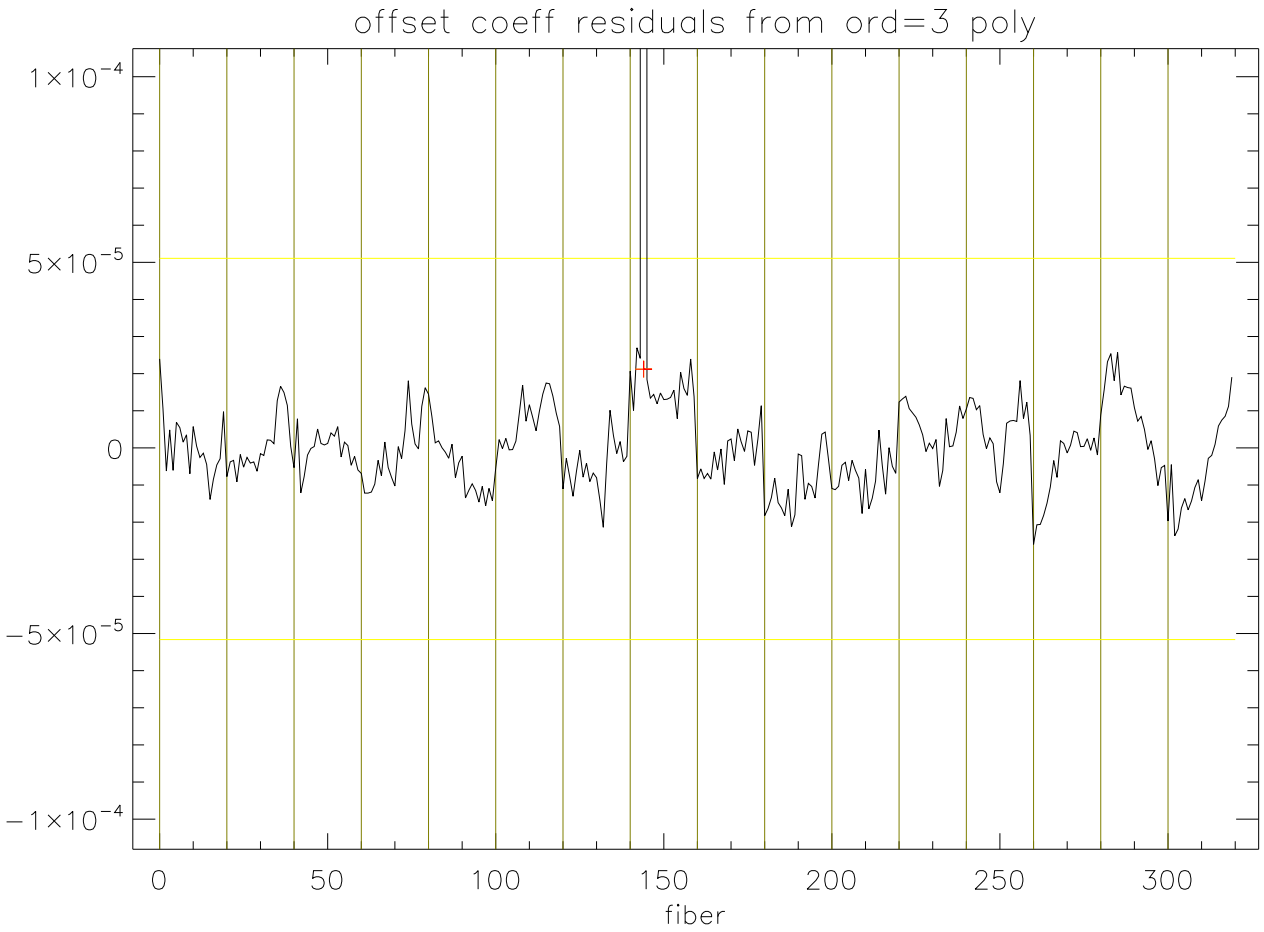
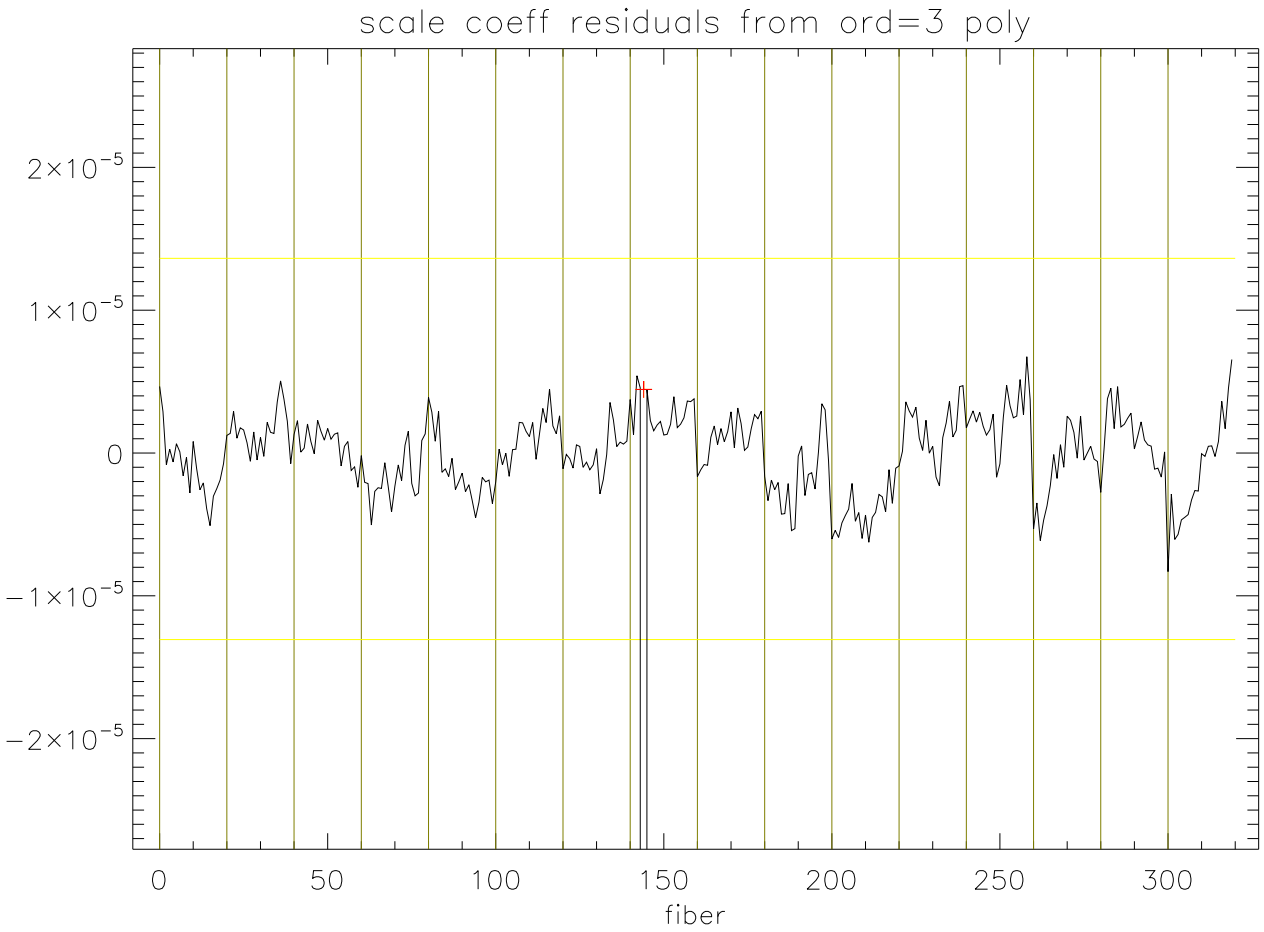
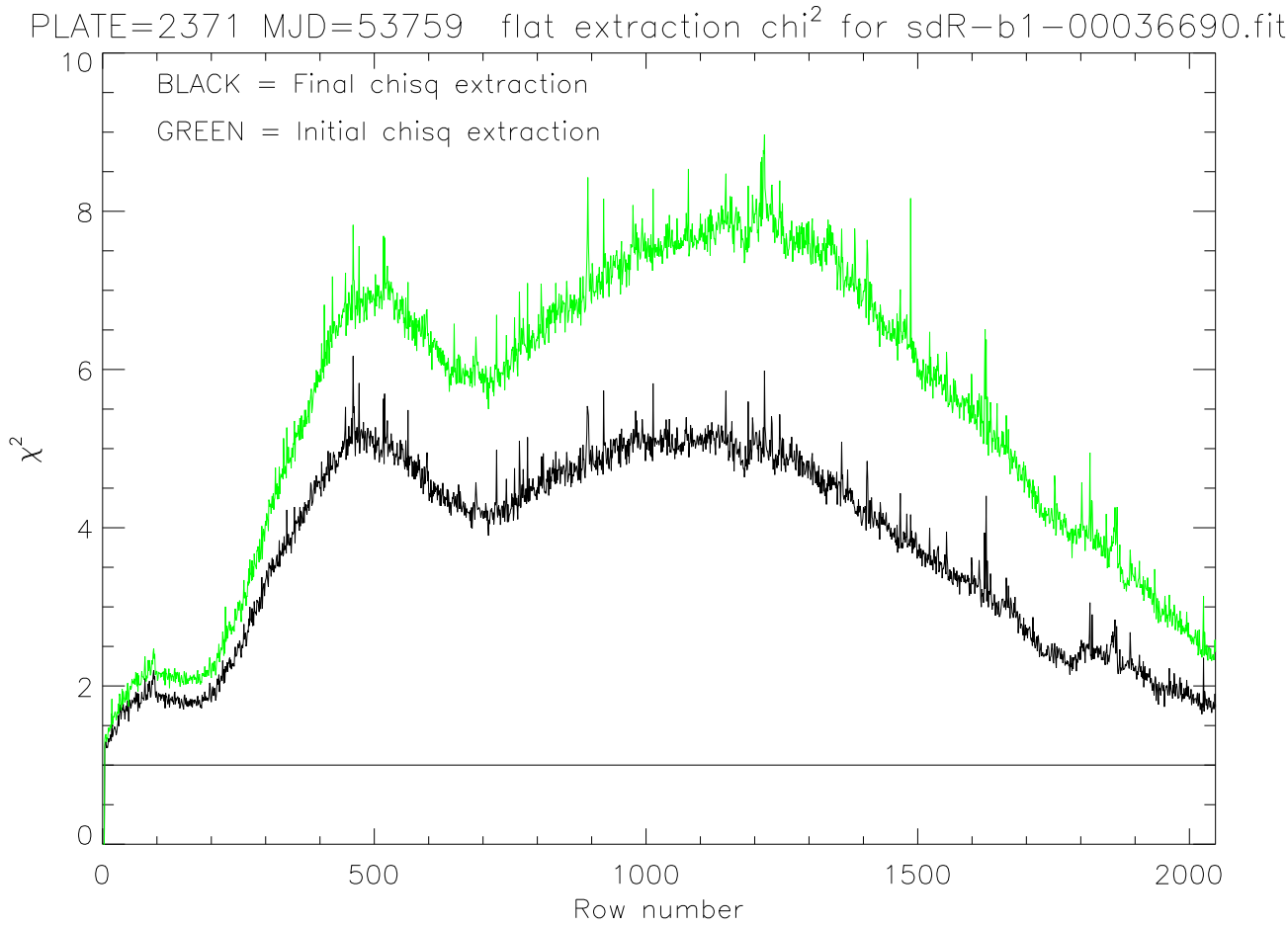
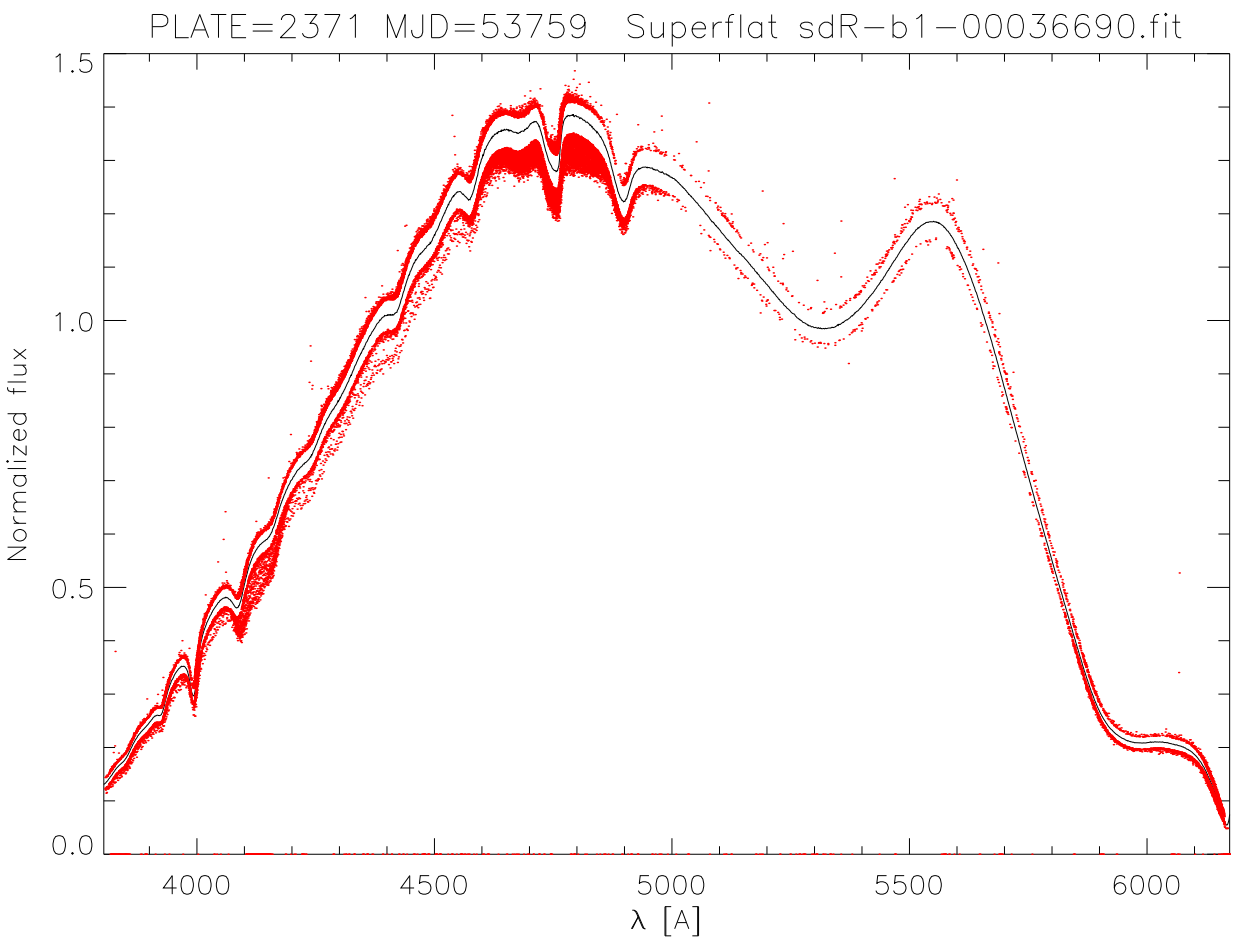
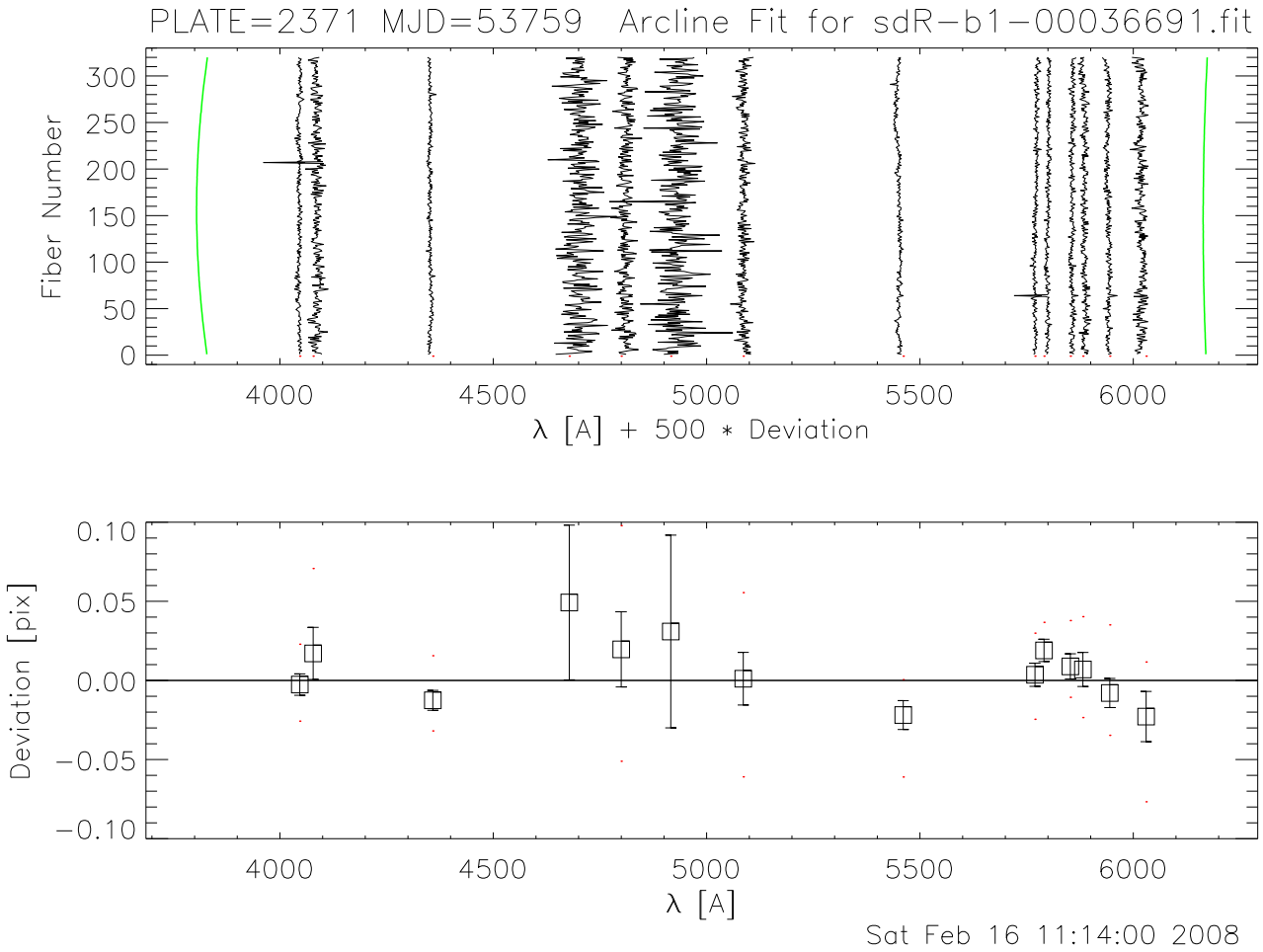
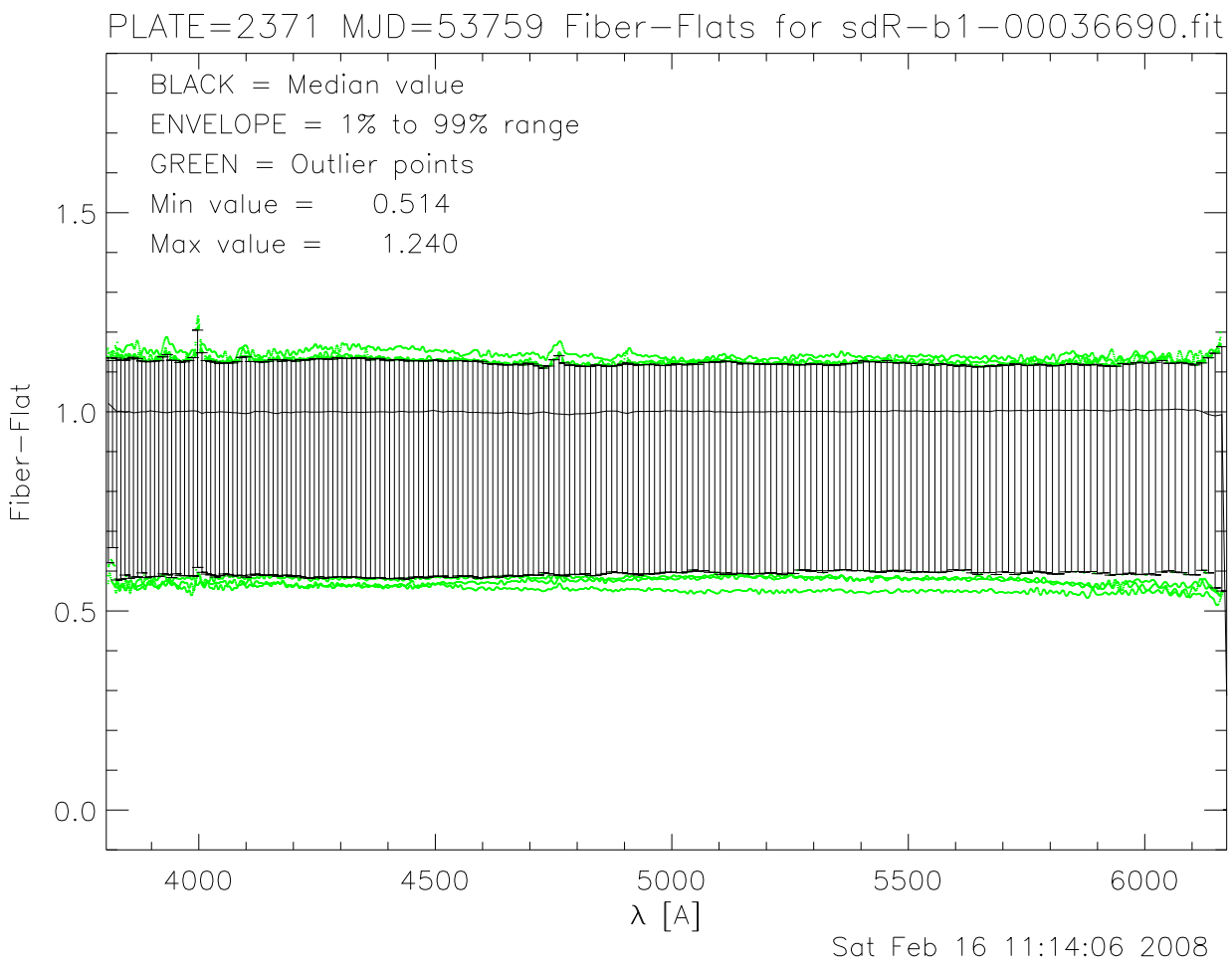

offset coeff residuals from ord=3 poly
1×10⁻⁴
5×10⁻⁵
0
−5×10⁻⁵
−1×10⁻⁴
0
50
100
150
200
250
300
fiber

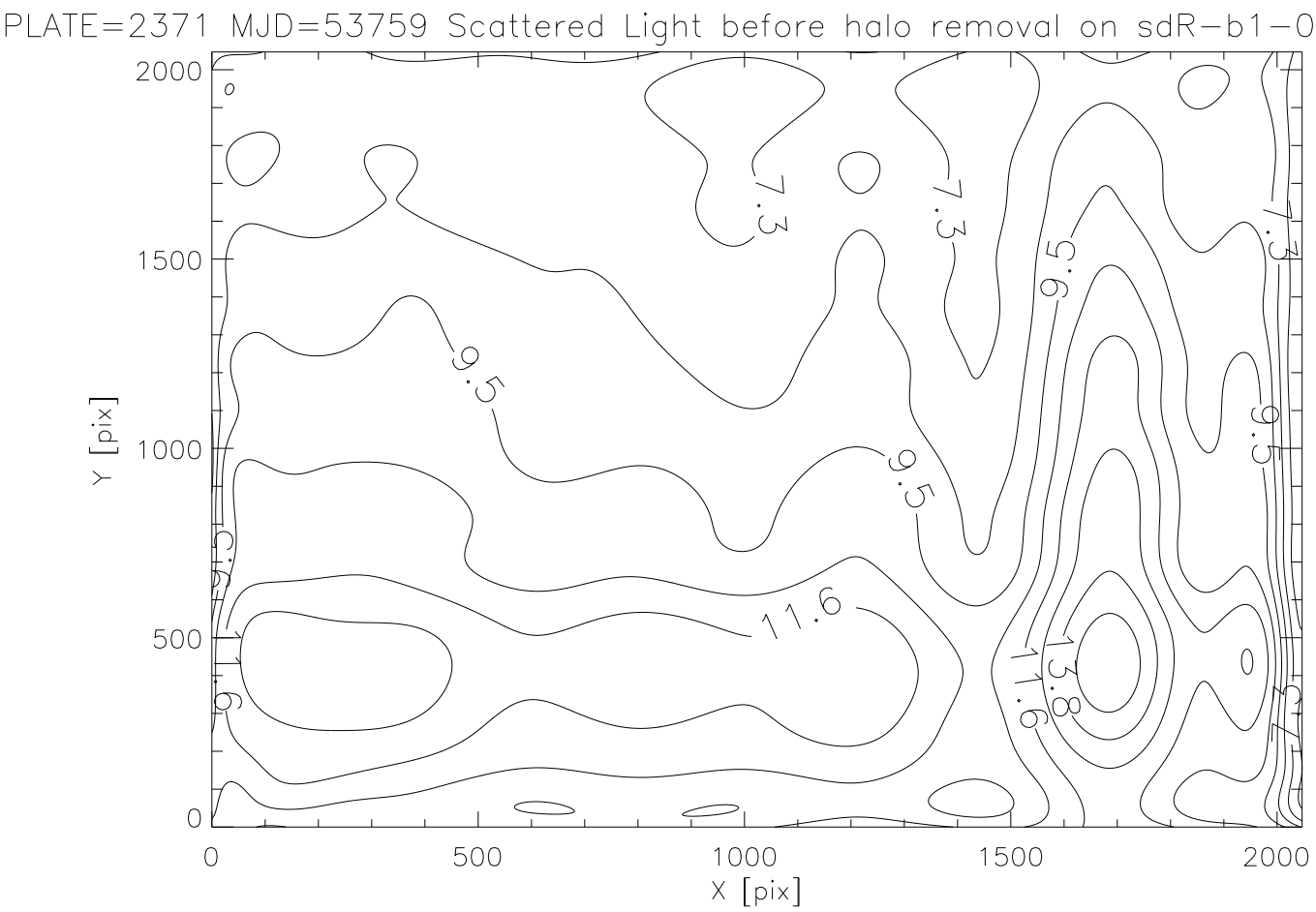

scale coeff residuals from ord=3 poly
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

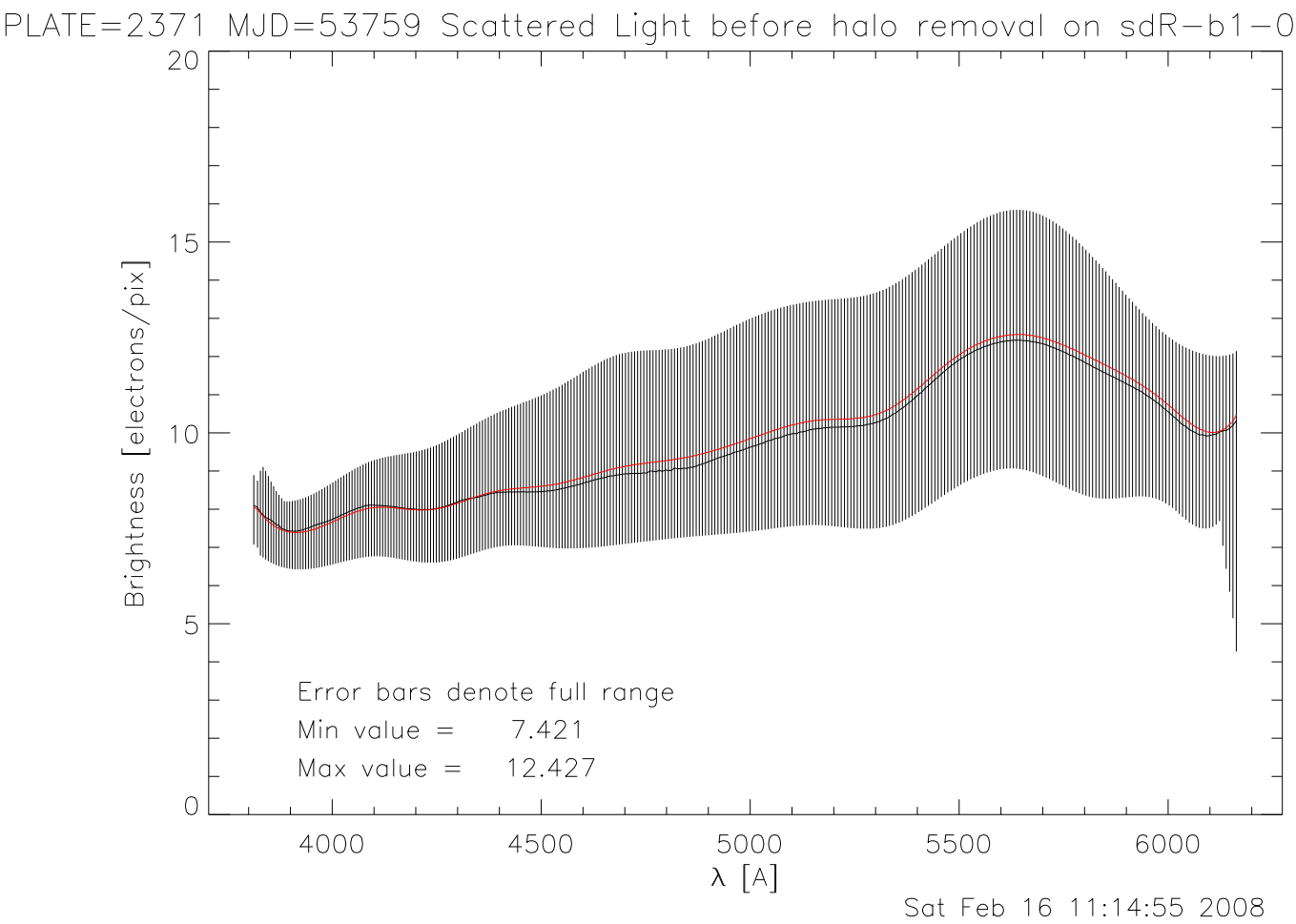

PLATE=2371 MJD=53759 flat extraction chi^2 for sdR−b1−00036690.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

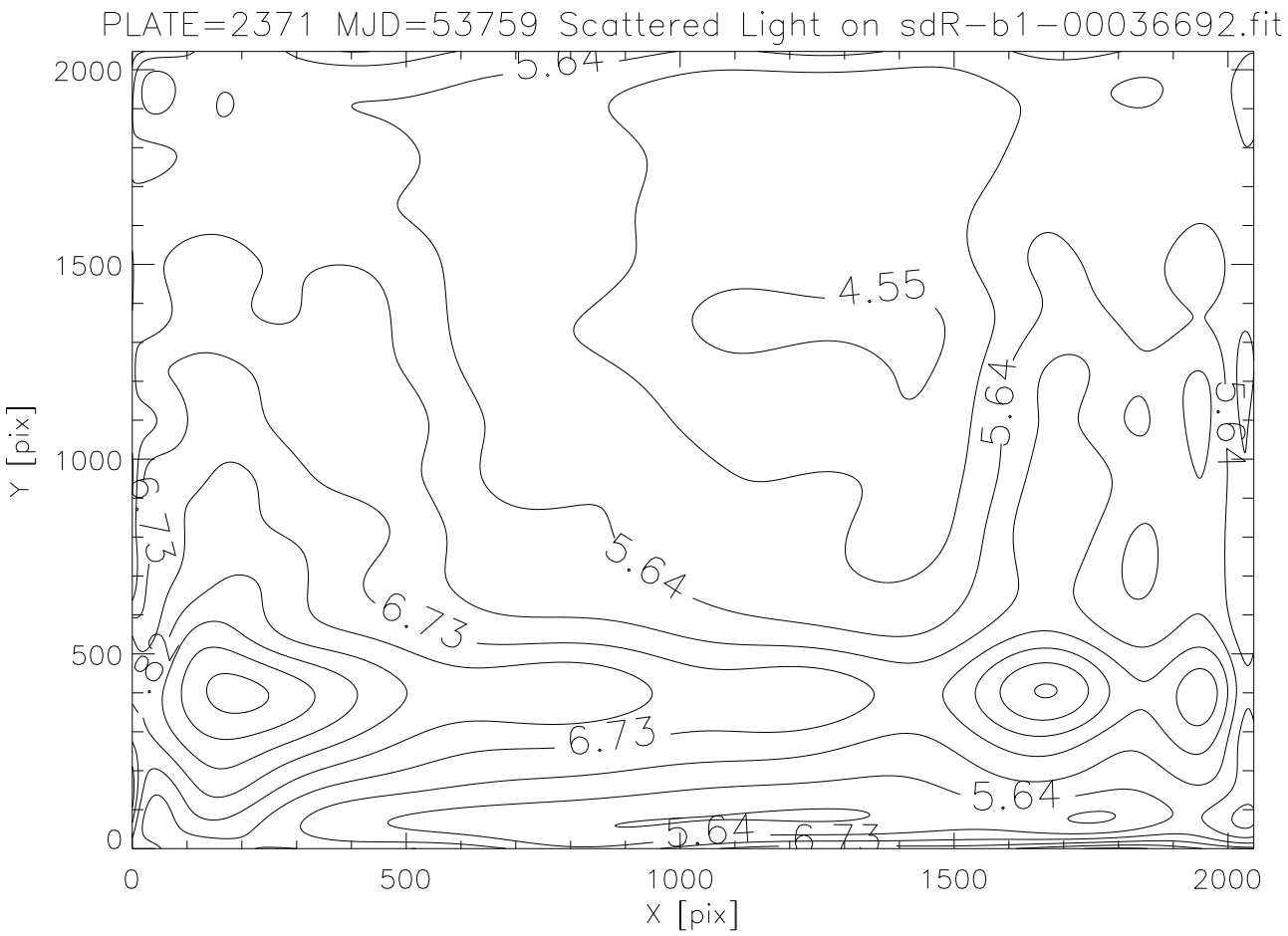

PLATE=2371 MJD=53759 Superflat sdR-b1-00036690.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

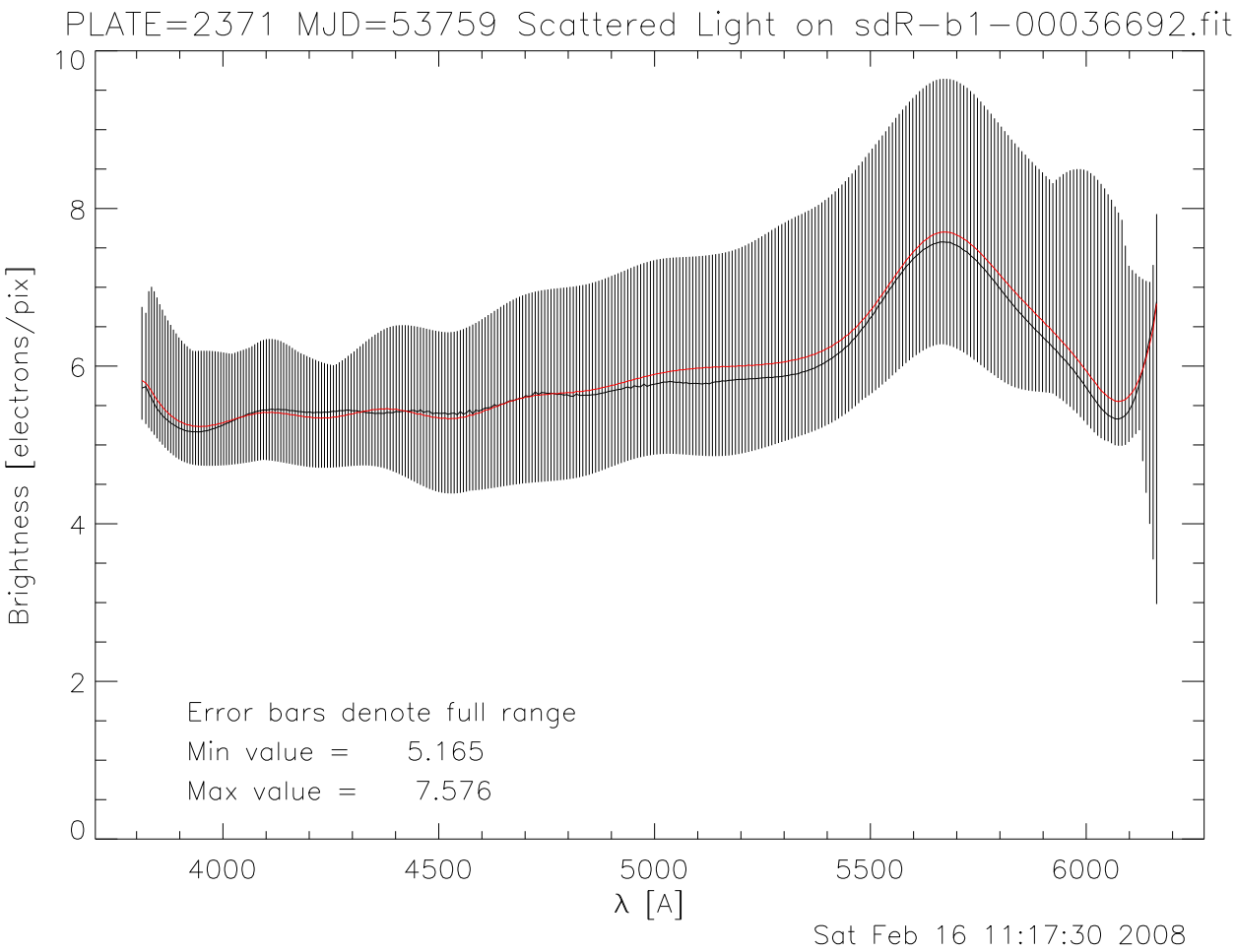

PLATE=2371 MJD=53759 Arcline Fit for sdR-b1-00036691.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 11:14:00 2008

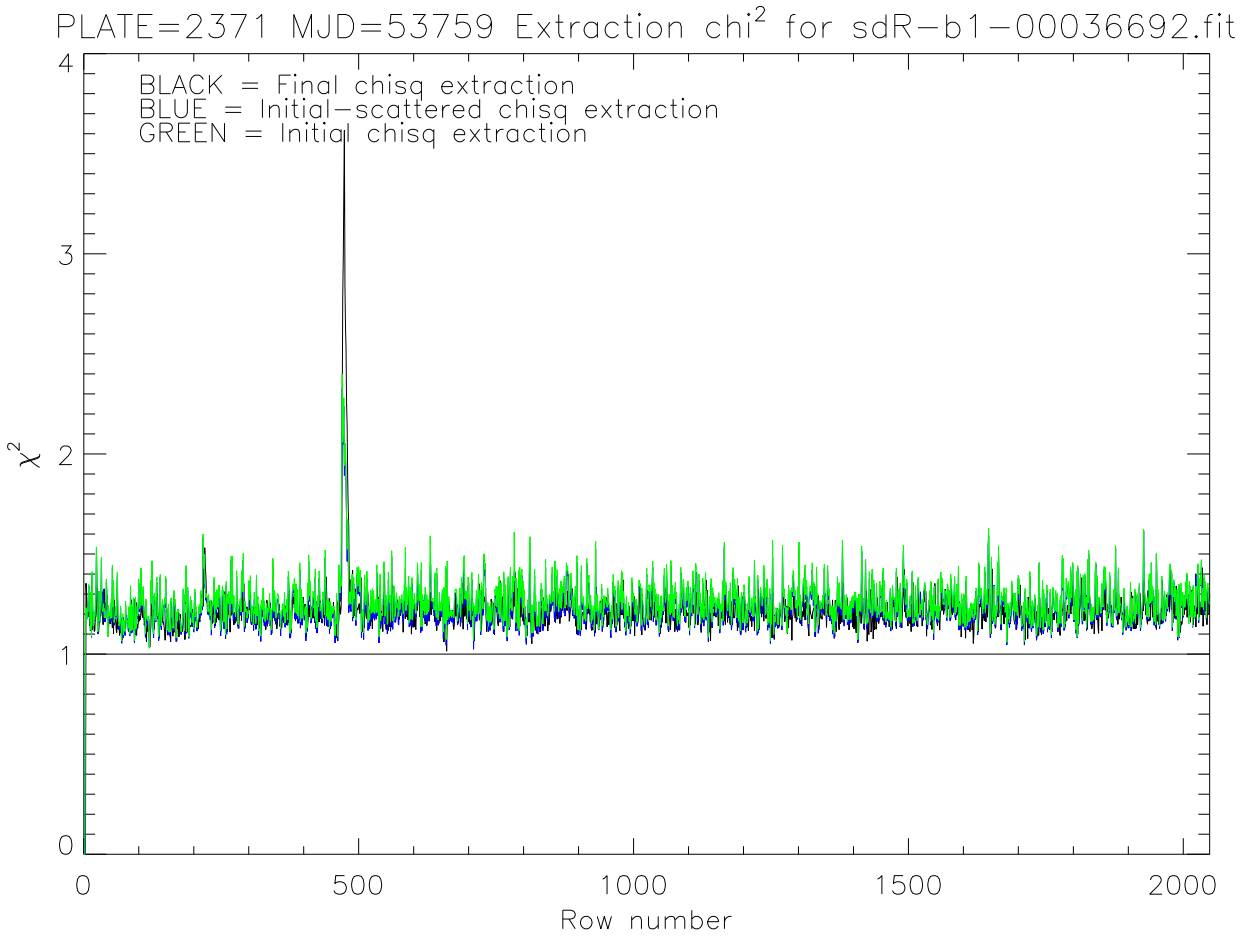

PLATE=2371 MJD=53759 Fiber-Flats for sdR-b1-00036690.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.514
Max value = 1.240
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 11:14:06 2008

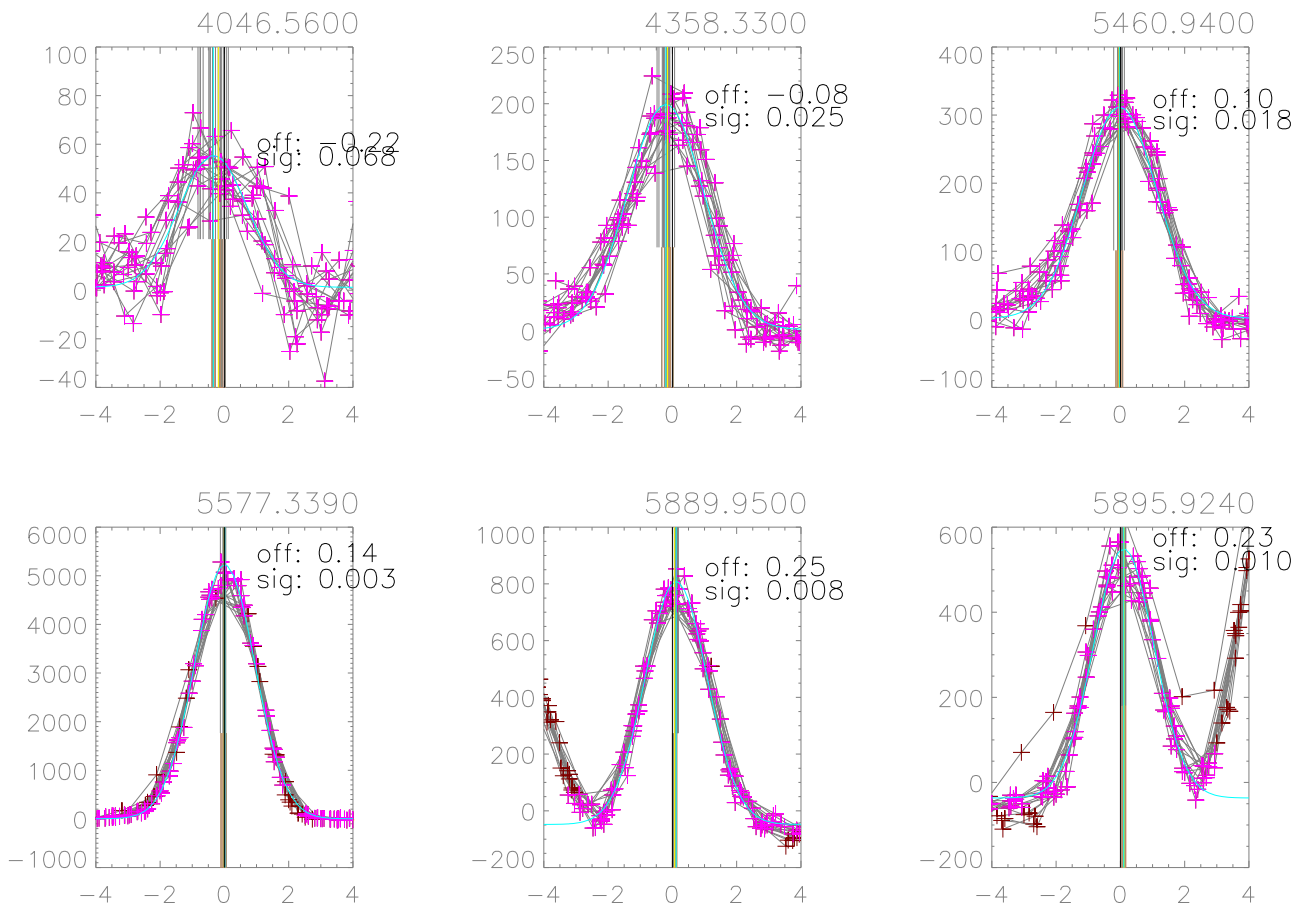

PLATE=2371 MJD=53759 Scattered Light before halo removal on sdR−b1−00036692.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
7.3
9.5
11.6
13.8

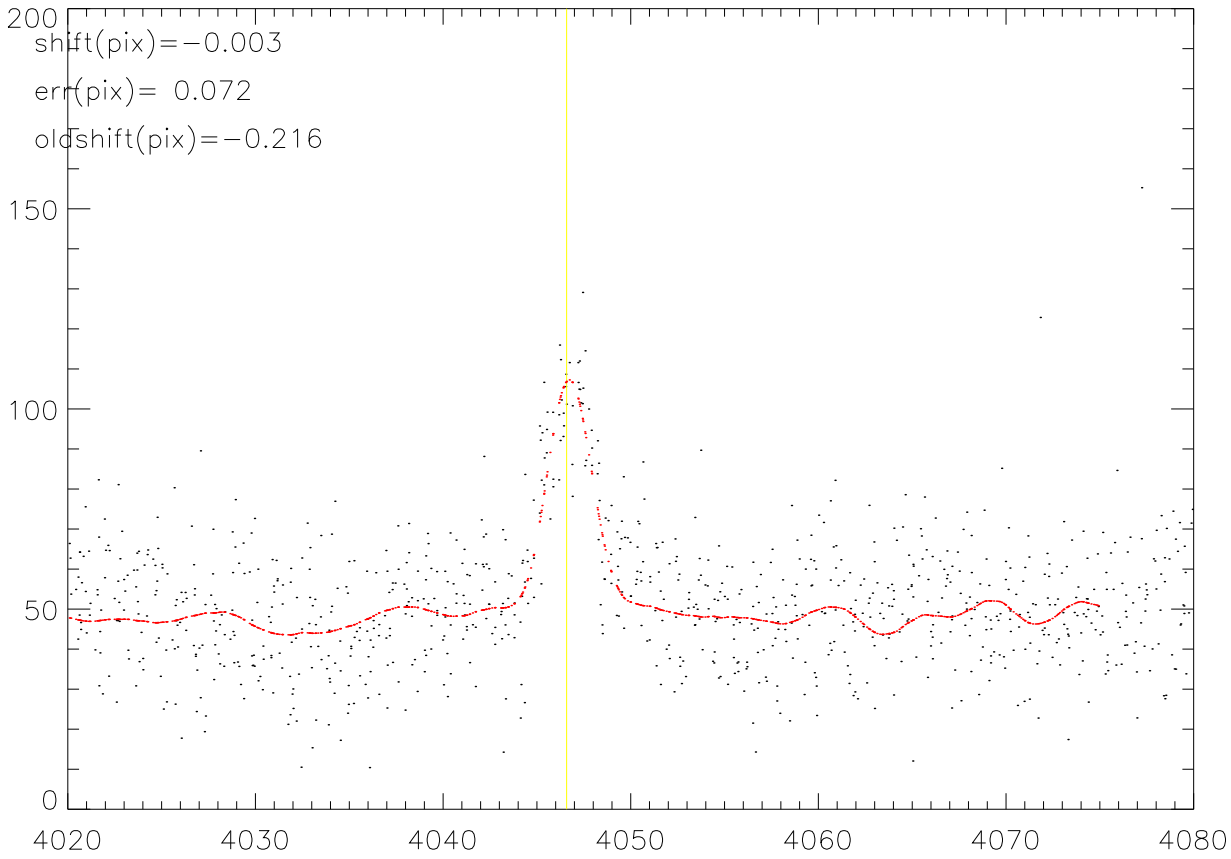

PLATE=2371 MJD=53759 Scattered Light before halo removal on sdR-b1-00036692.f
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 7.421
Max value = 12.427
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 11:14:55 2008

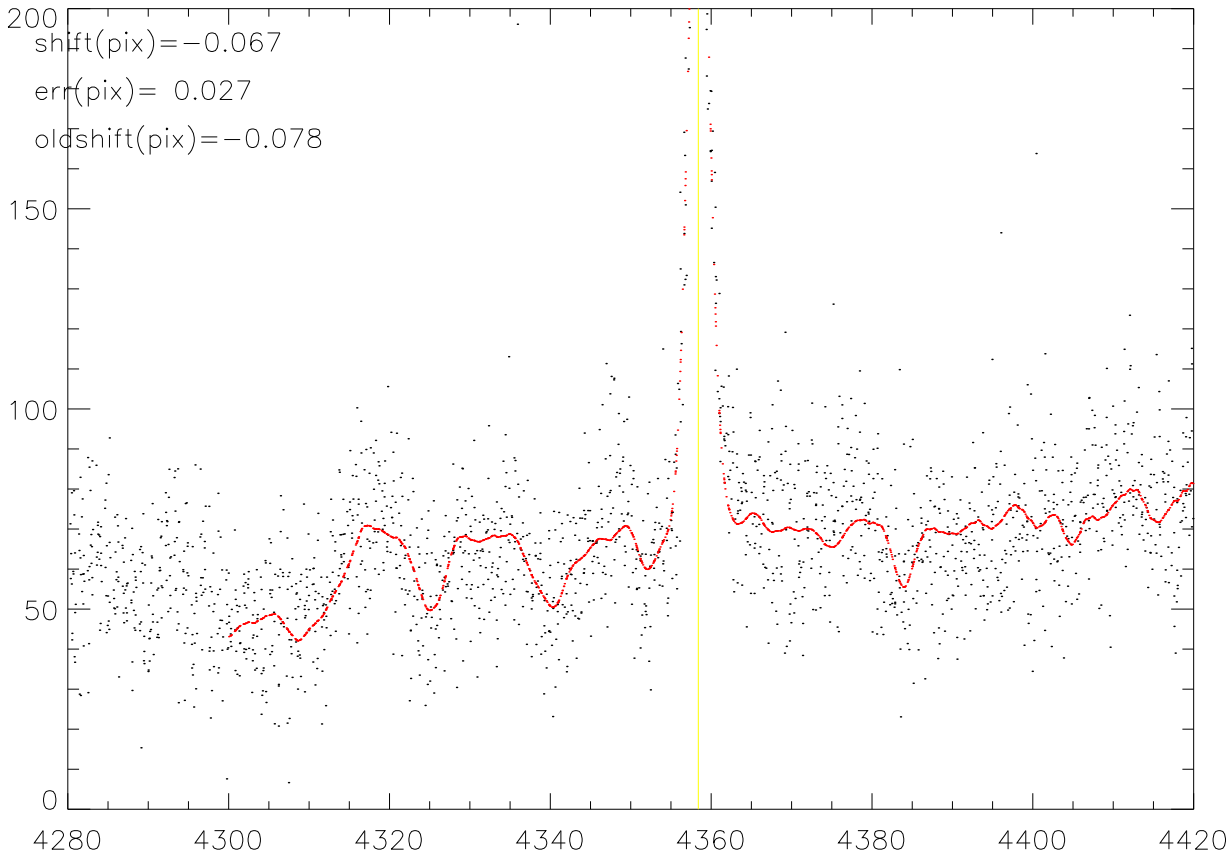

PLATE=2371 MJD=53759 Scattered Light on sdR-b1-00036692.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
5.64
4.55
6.73

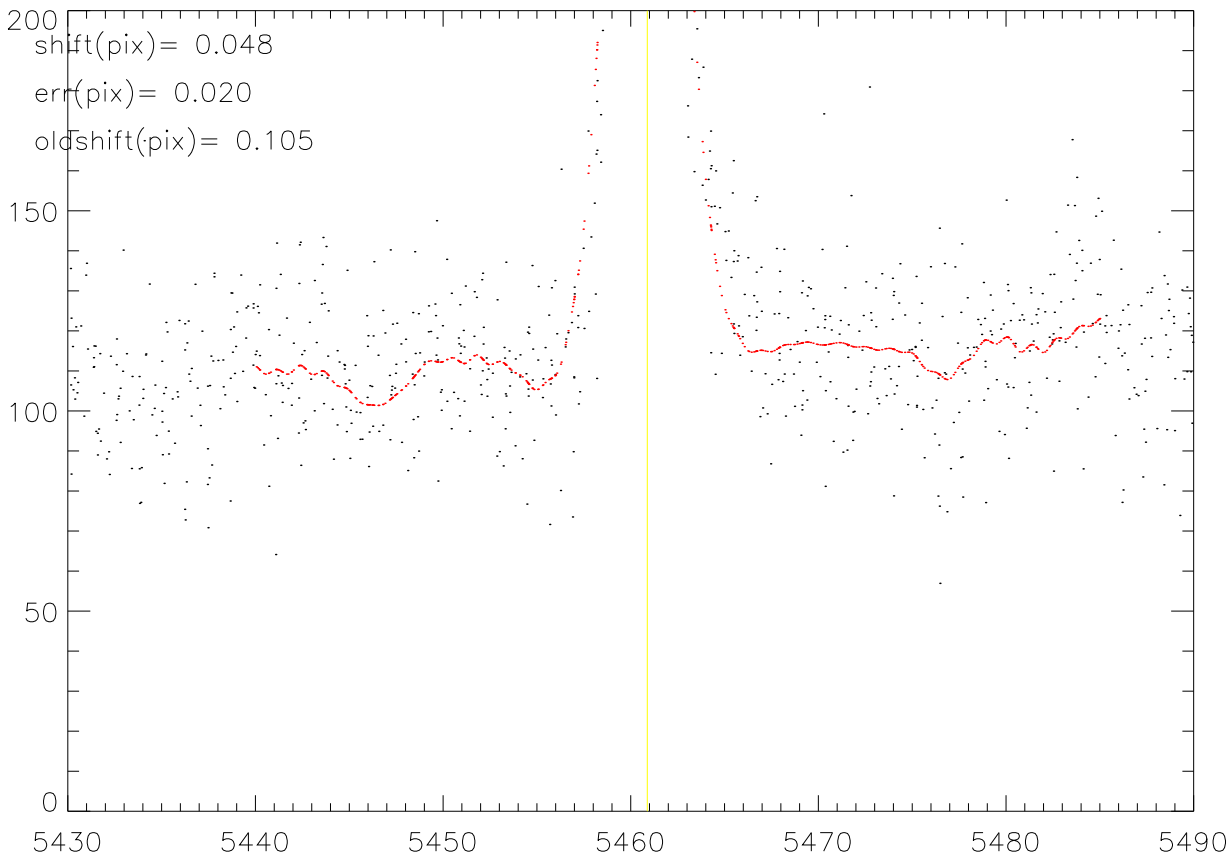

PLATE=2371 MJD=53759 Scattered Light on sdR-b1-00036692.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.165
Max value = 7.576
Sat Feb 16 11:17:30 2008

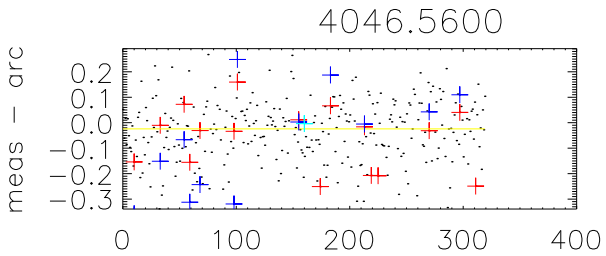

PLATE=2371 MJD=53759 Extraction chi^2 for sdR-b1-00036692.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

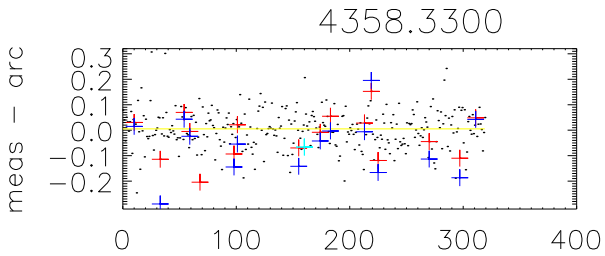

4046.5600
off: −0.22
sig: 0.068
4358.3300
off: −0.08
sig: 0.025
5460.9400
off: 0.10
sig: 0.018
5577.3390
off: 0.14
sig: 0.003
5889.9500
off: 0.25
sig: 0.008
5895.9240
off: 0.23
sig: 0.010

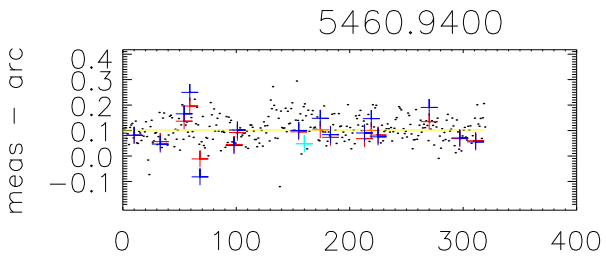

shift(pix)=−0.003
err(pix)= 0.072
oldshift(pix)=−0.216
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

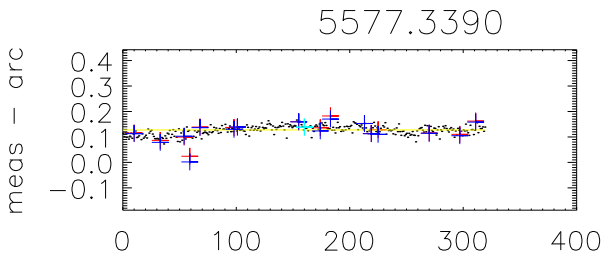

shift(pix)=−0.067
err(pix)= 0.027
oldshift(pix)=−0.078
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

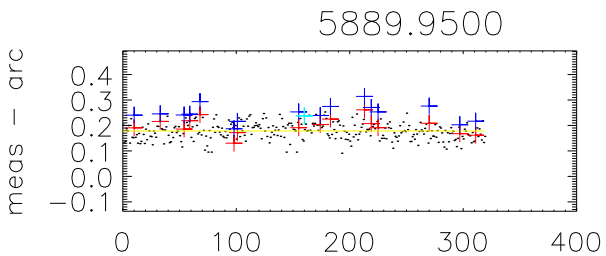

shift(pix)= 0.048
err(pix)= 0.020
oldshift(pix)= 0.105
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

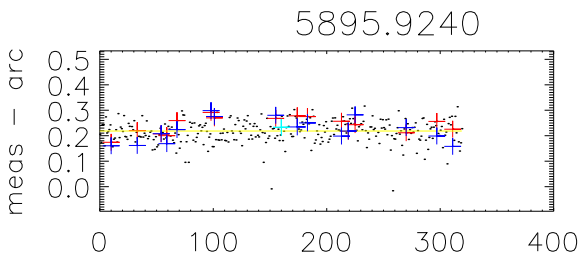

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

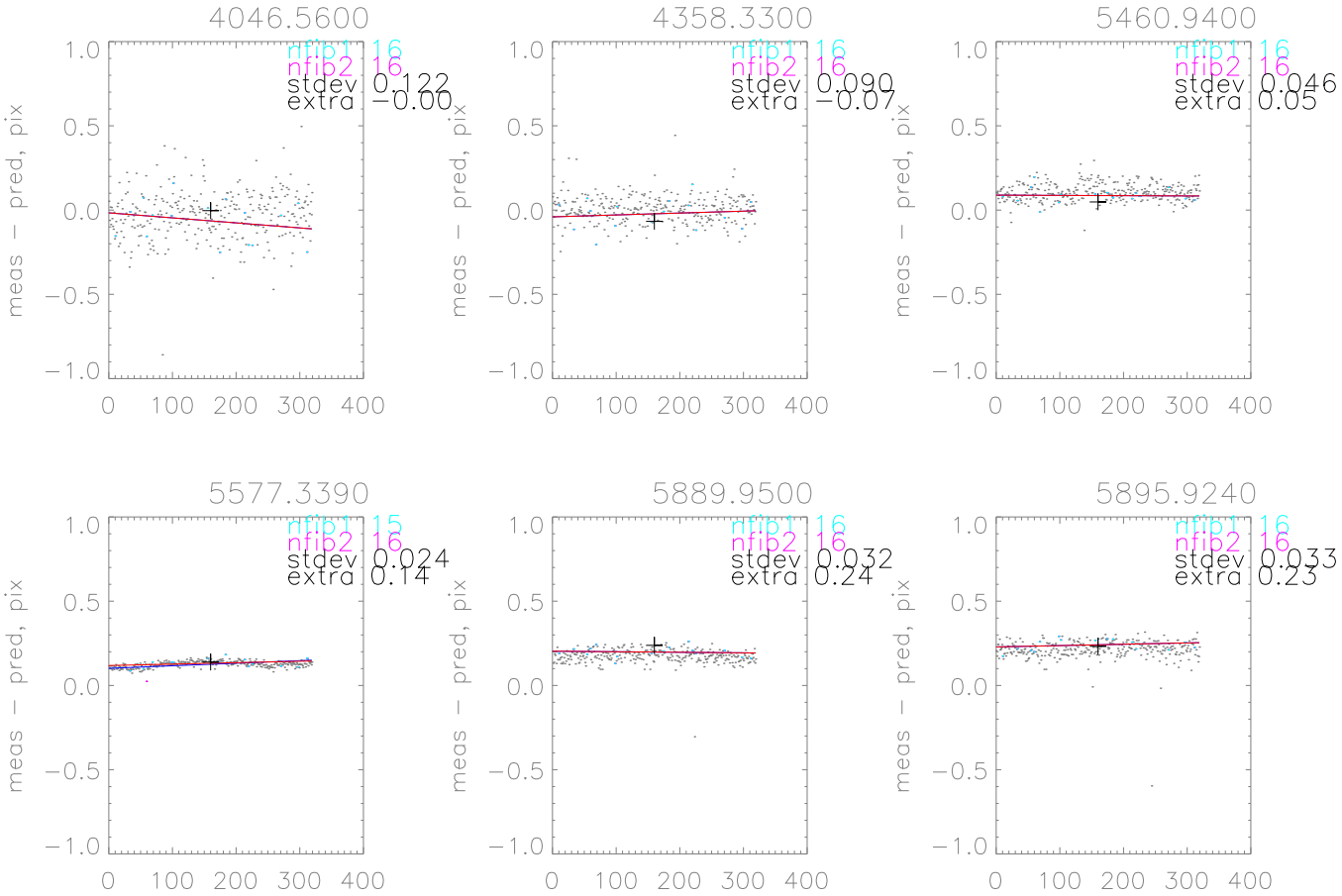

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

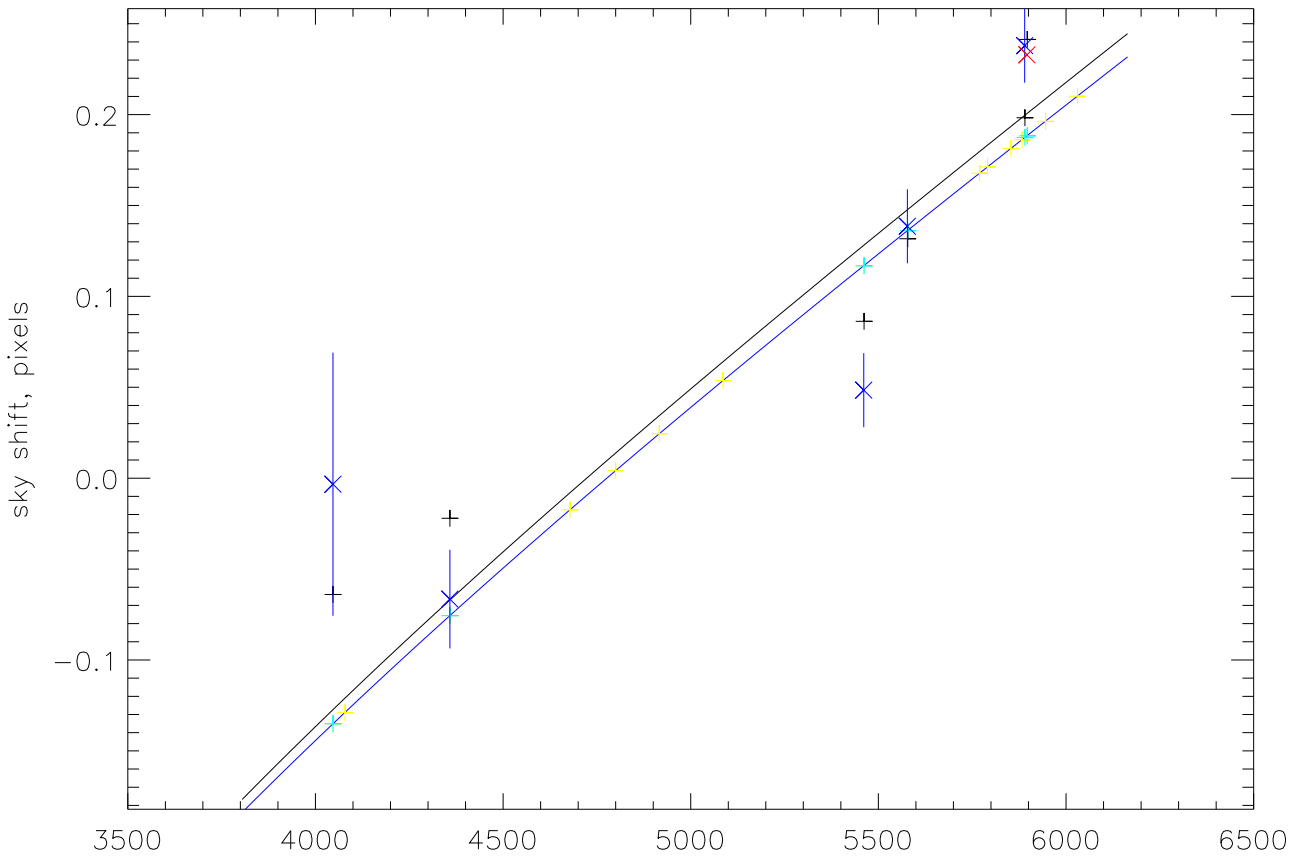

5460.9400
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

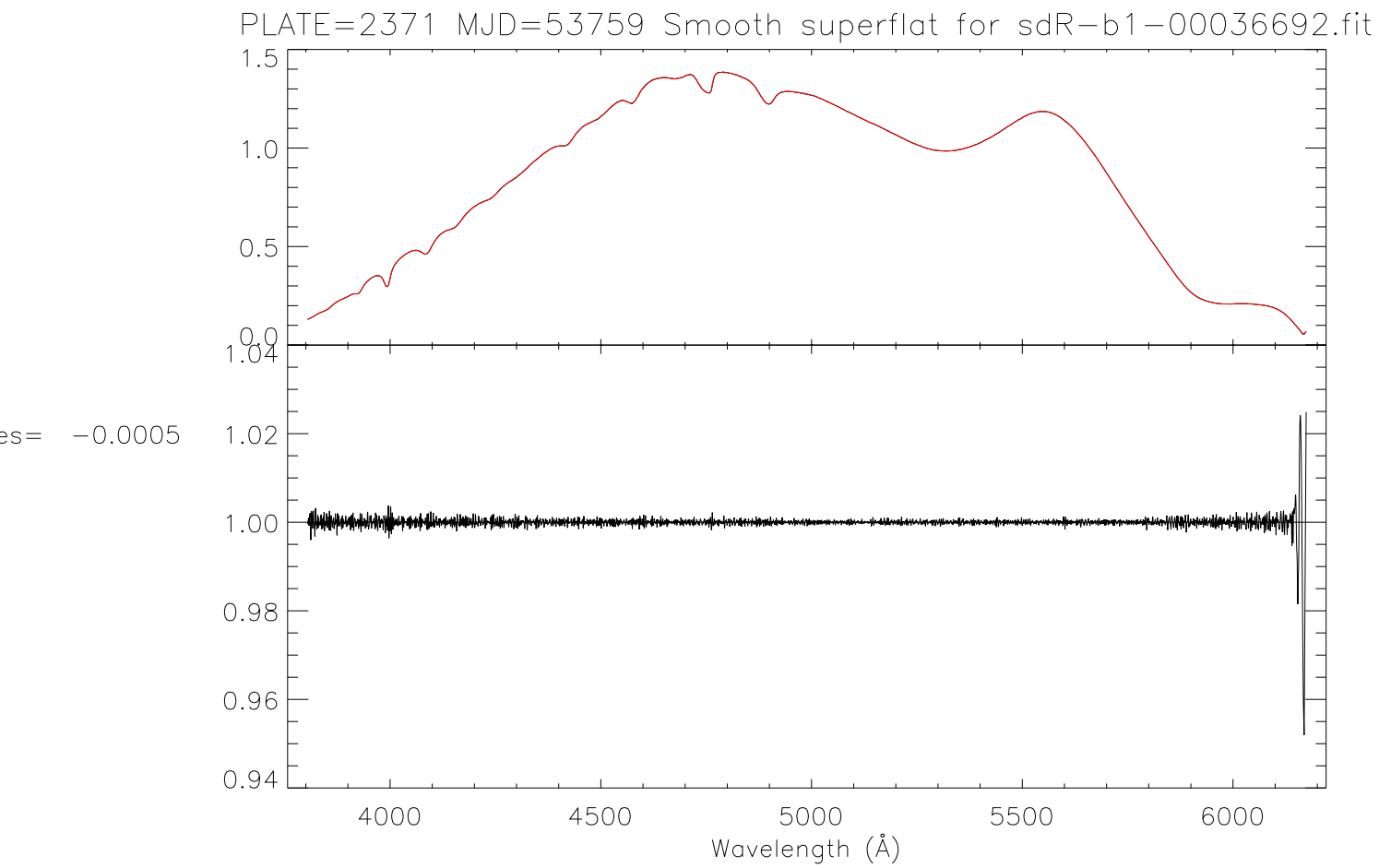

5577.3390
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

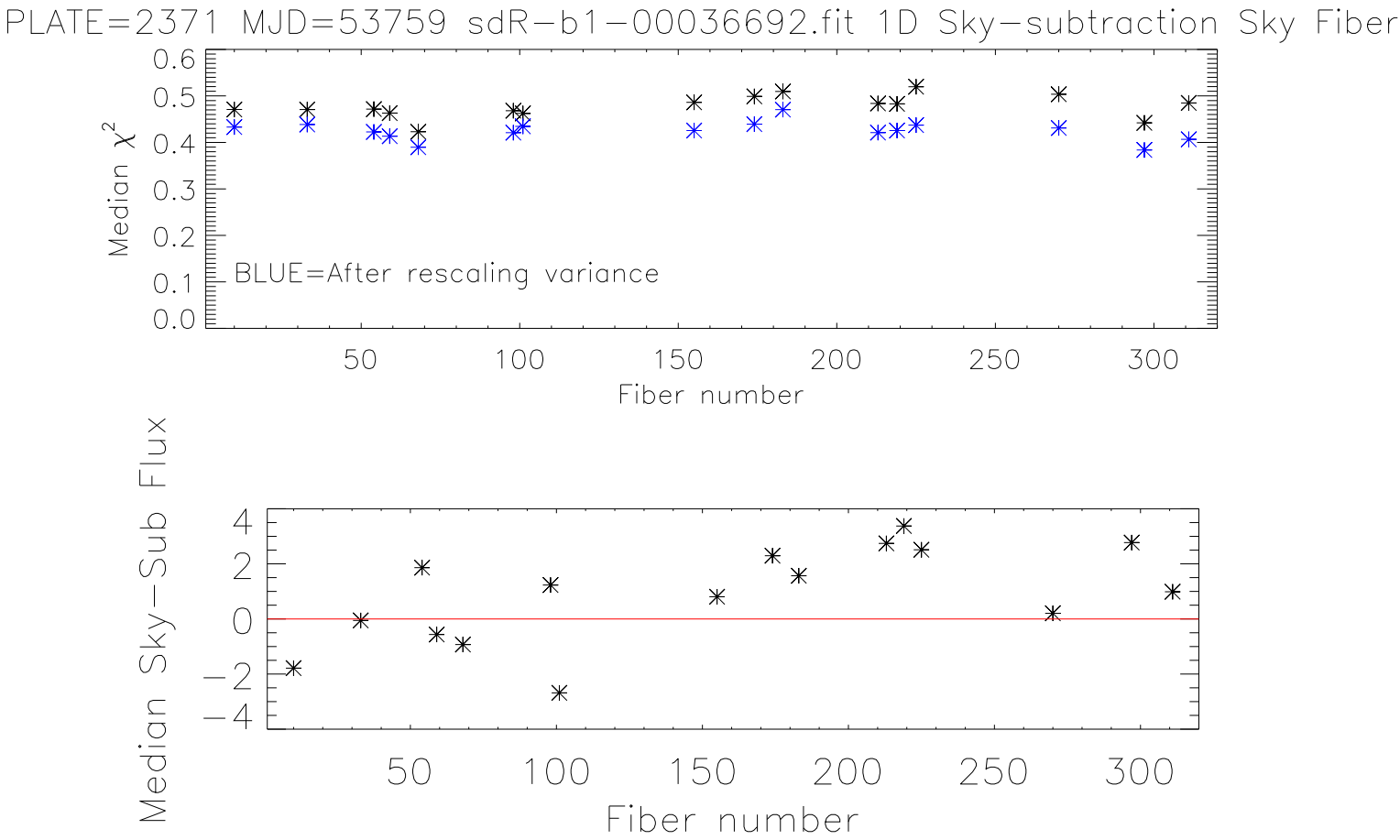

5895.9240
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

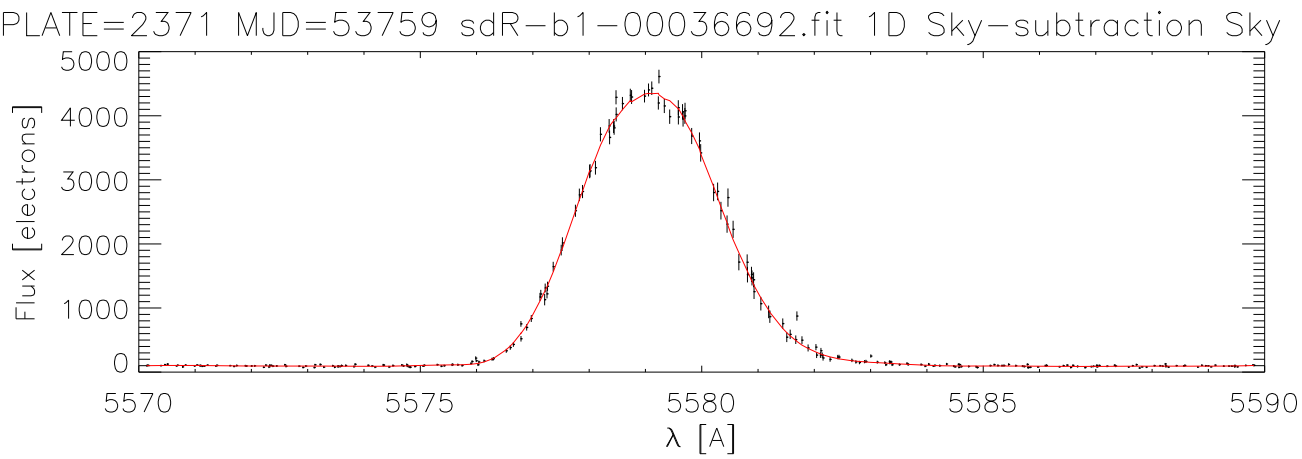

4046.5600
nfib1 16
nfib2 16
stdev 0.122
extra −0.00
4358.3300
nfib1 16
nfib2 16
stdev 0.090
extra −0.07
5460.9400
nfib1 16
nfib2 16
stdev 0.046
extra 0.05
5577.3390
nfib1 15
nfib2 16
stdev 0.024
extra 0.14
5889.9500
nfib1 16
nfib2 16
stdev 0.032
extra 0.24
5895.9240
nfib1 16
nfib2 16
stdev 0.033
extra 0.23
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

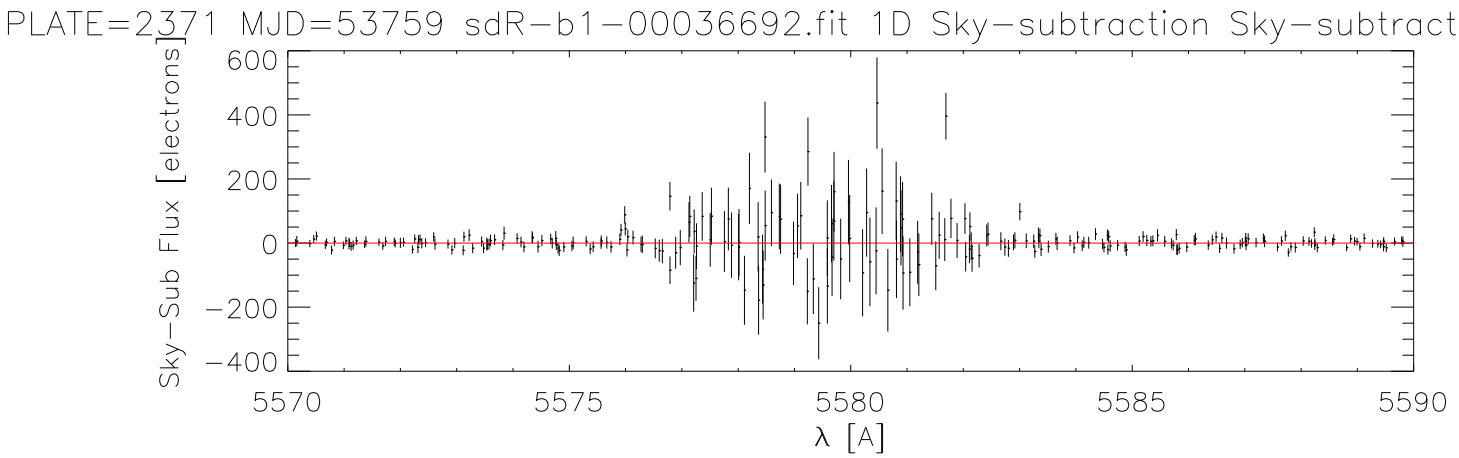

sky shift, pixels
0.2
0.1
0.0
−0.1
3500
4000
4500
5000
5500
6000
6500

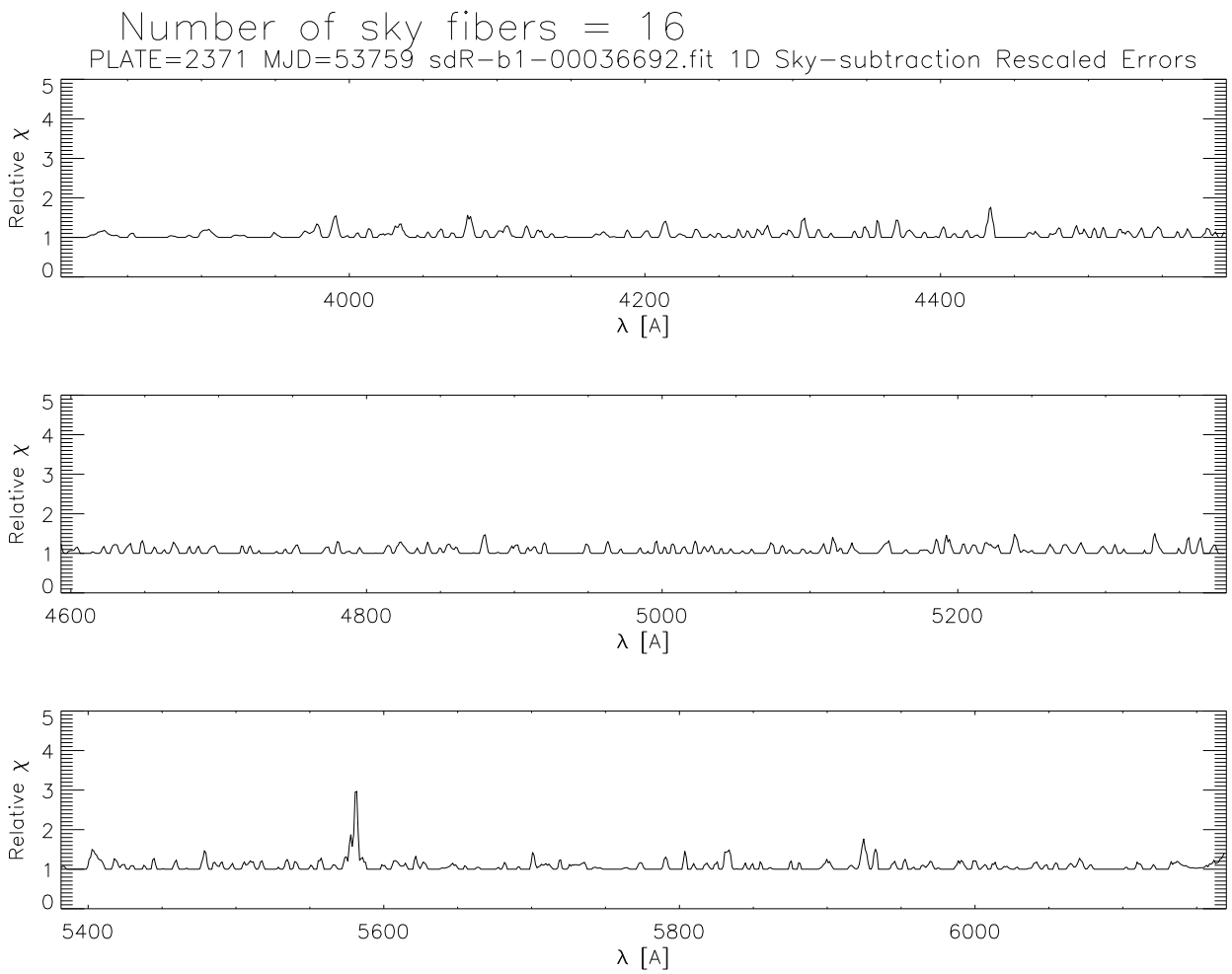

PLATE=2371 MJD=53759 Smooth superflat for sdR-b1-00036692.fit
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
0.94
4000
4500
5000
5500
6000
Wavelength (Å)

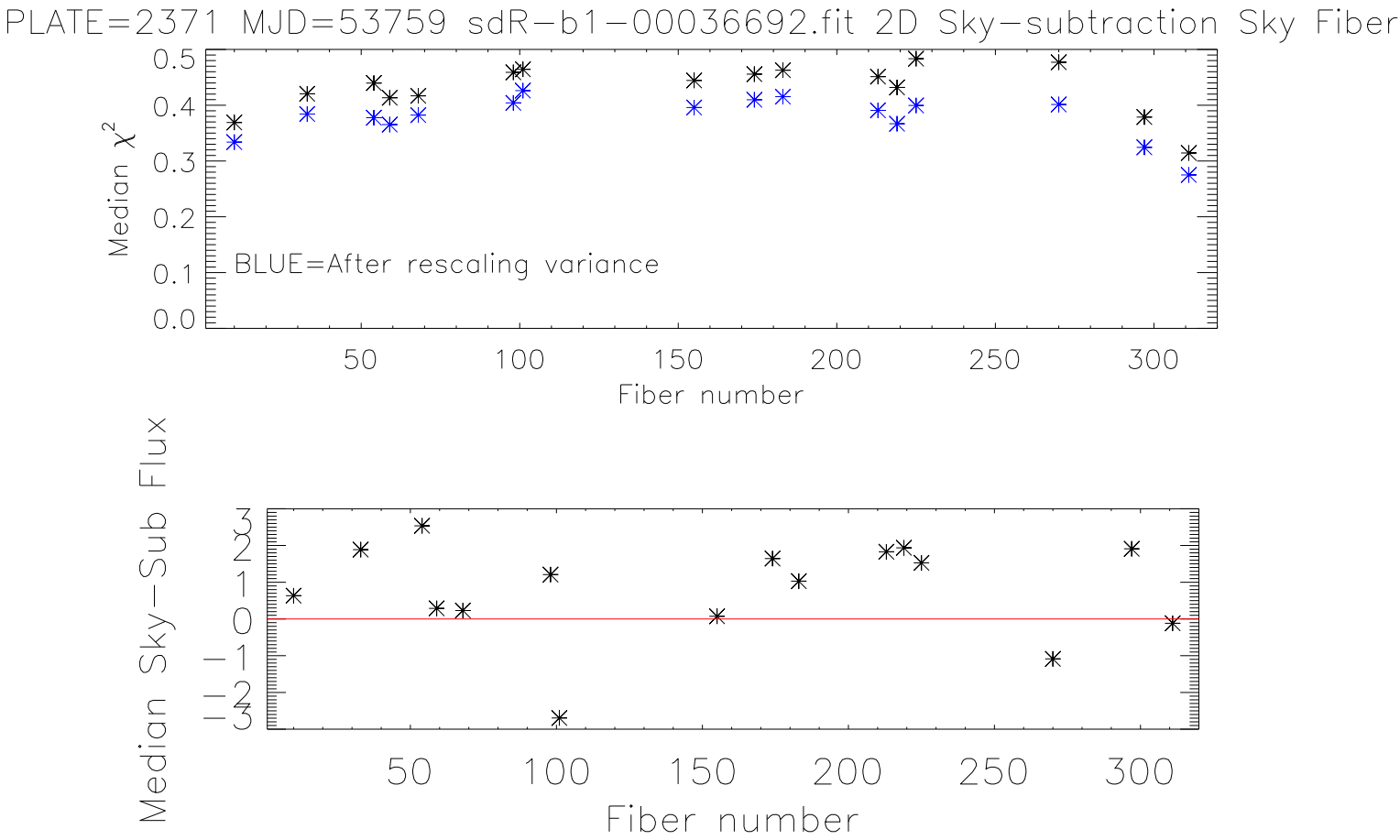
es= −0.0005

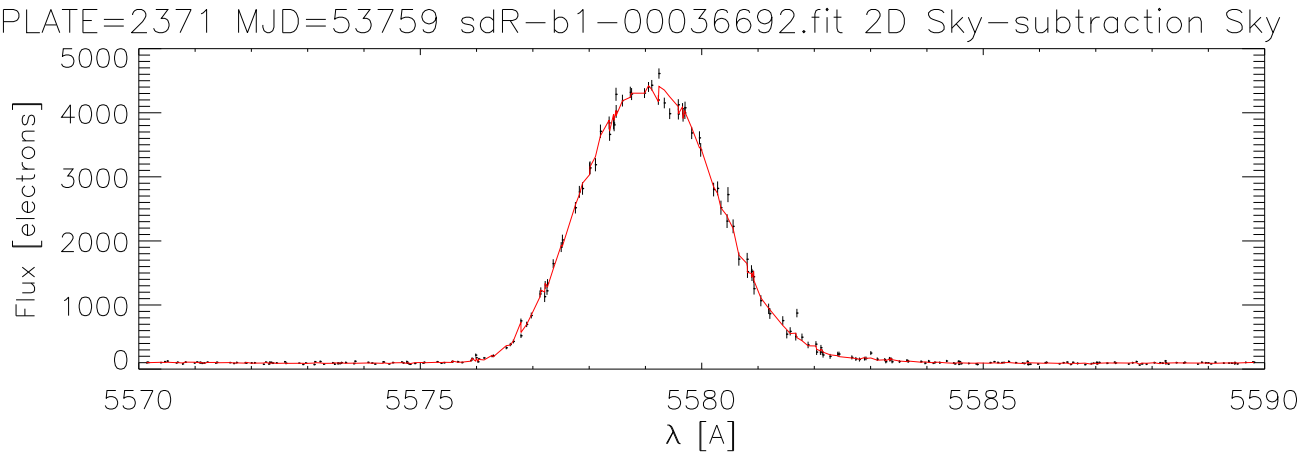

PLATE=2371 MJD=53759 sdR-b1-00036692.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

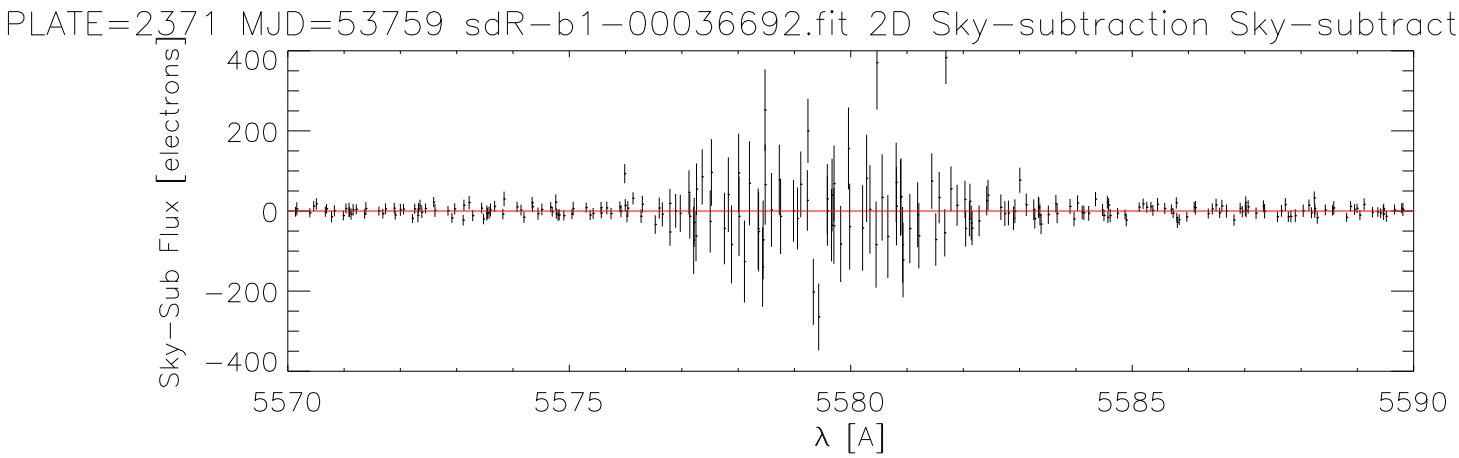

PLATE=2371 MJD=53759 sdR-b1-00036692.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

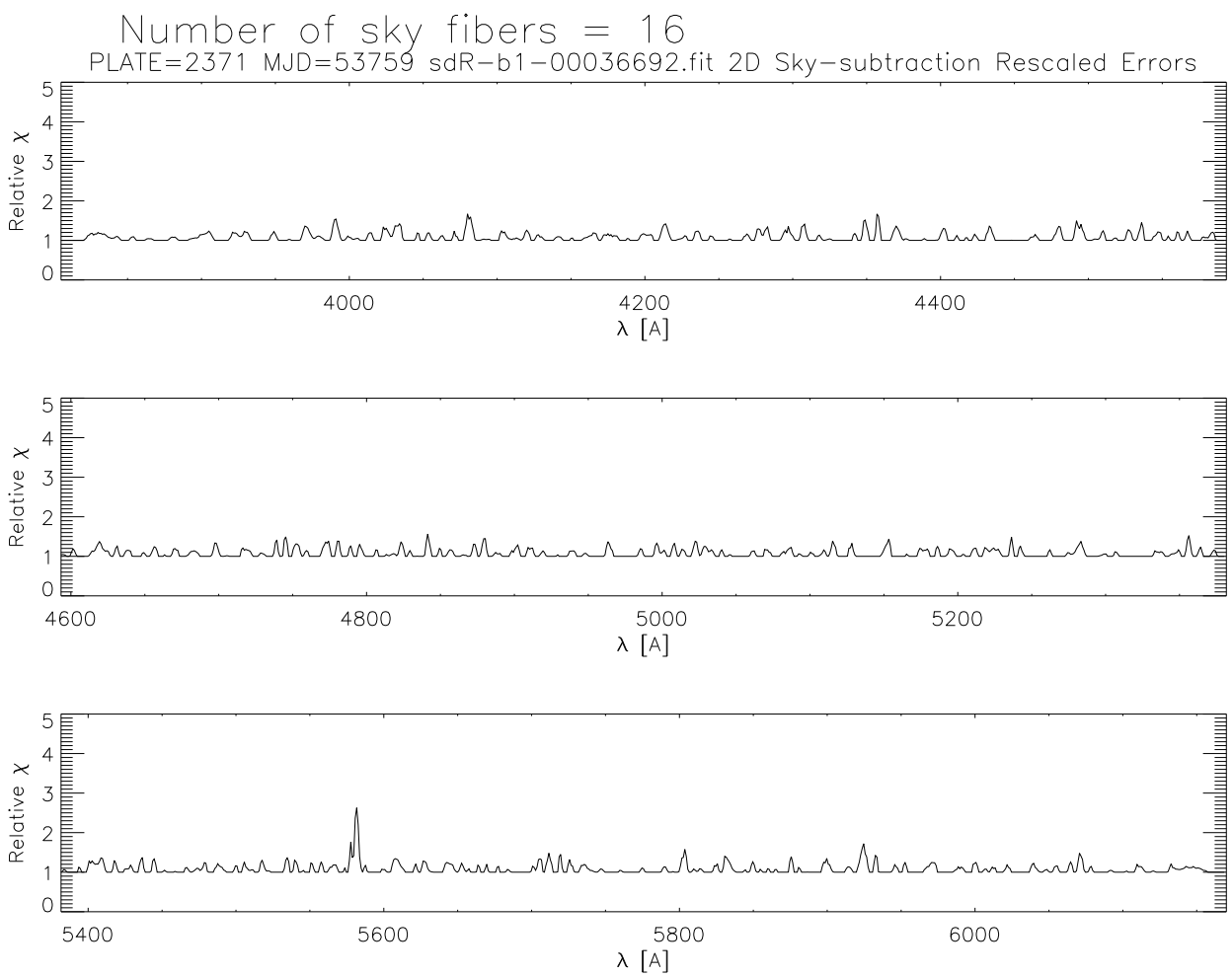

PLATE=2371 MJD=53759 sdR-b1-00036692.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

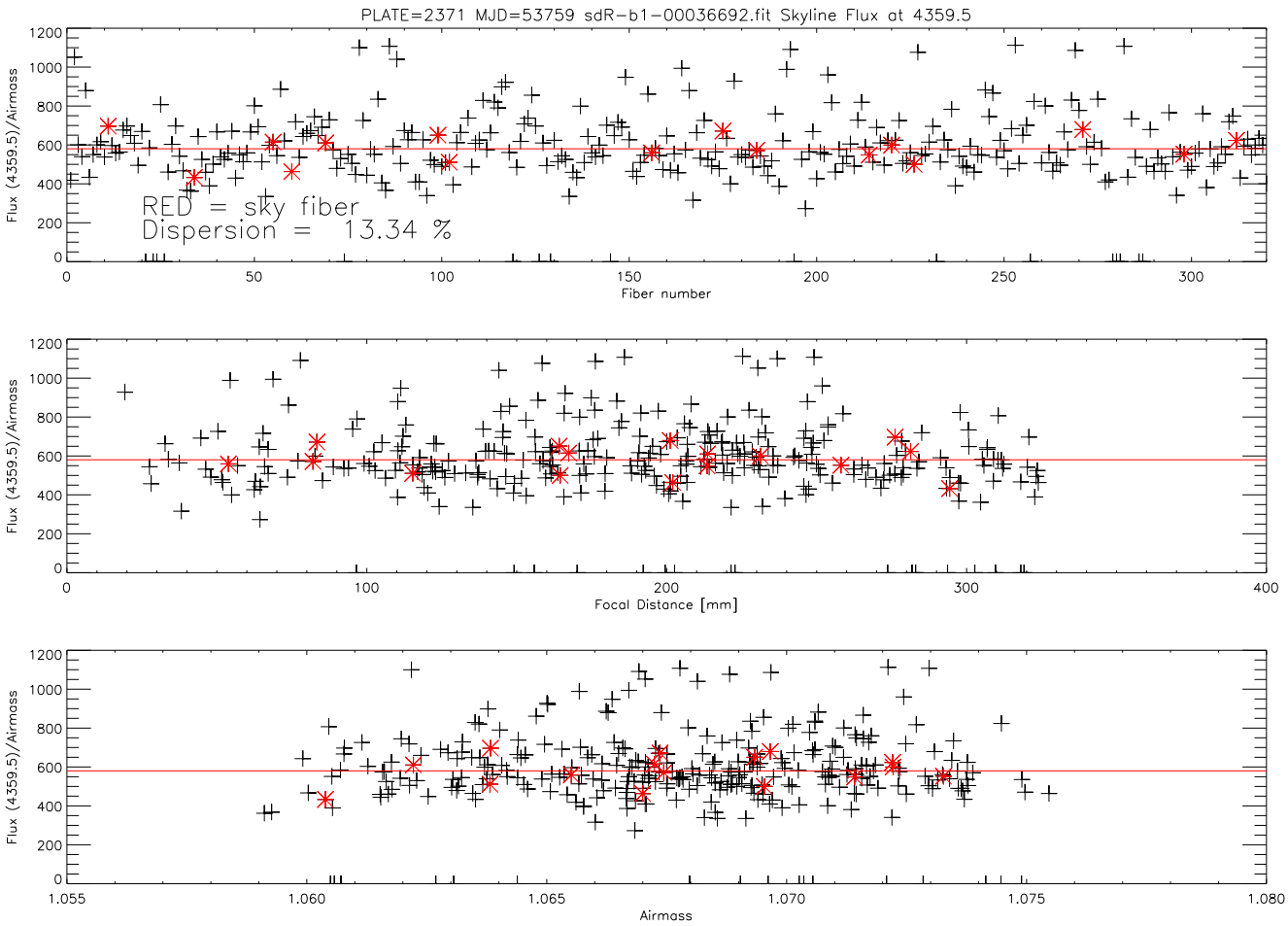

Number of sky fibers = 16
PLATE=2371 MJD=53759 sdR-b1-00036692.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

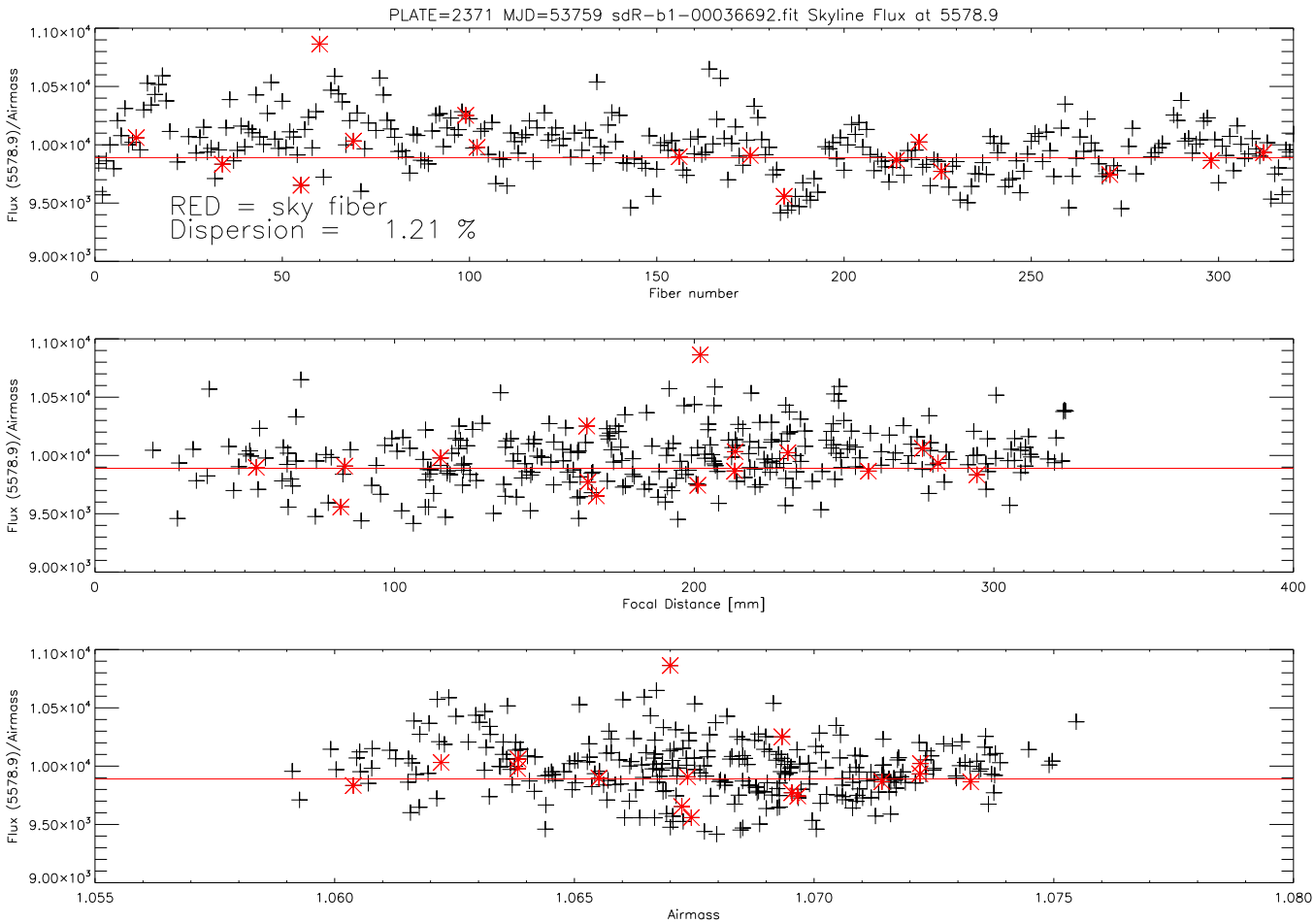

PLATE=2371 MJD=53759 sdR-b1-00036692.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

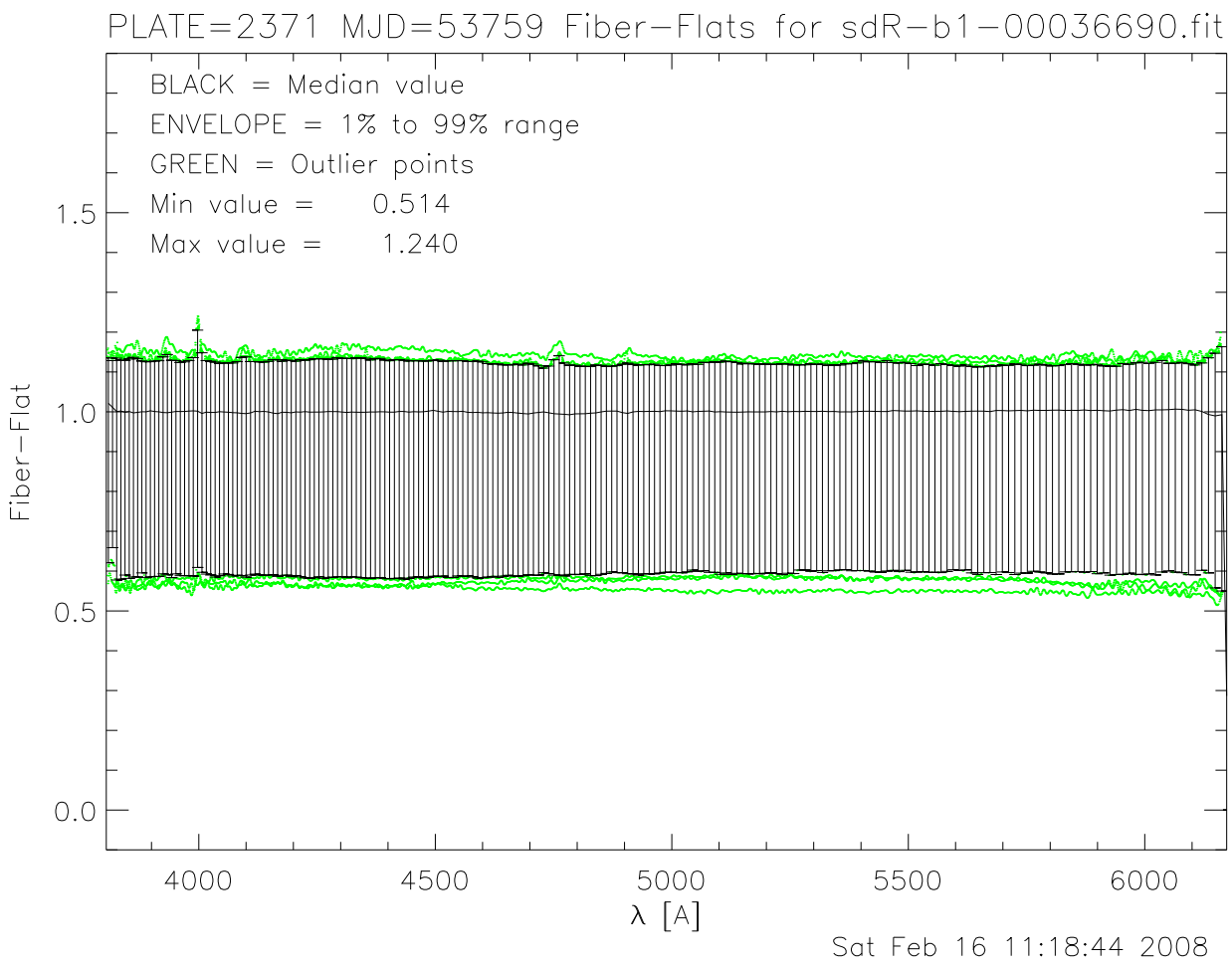

PLATE=2371 MJD=53759 sdR-b1-00036692.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

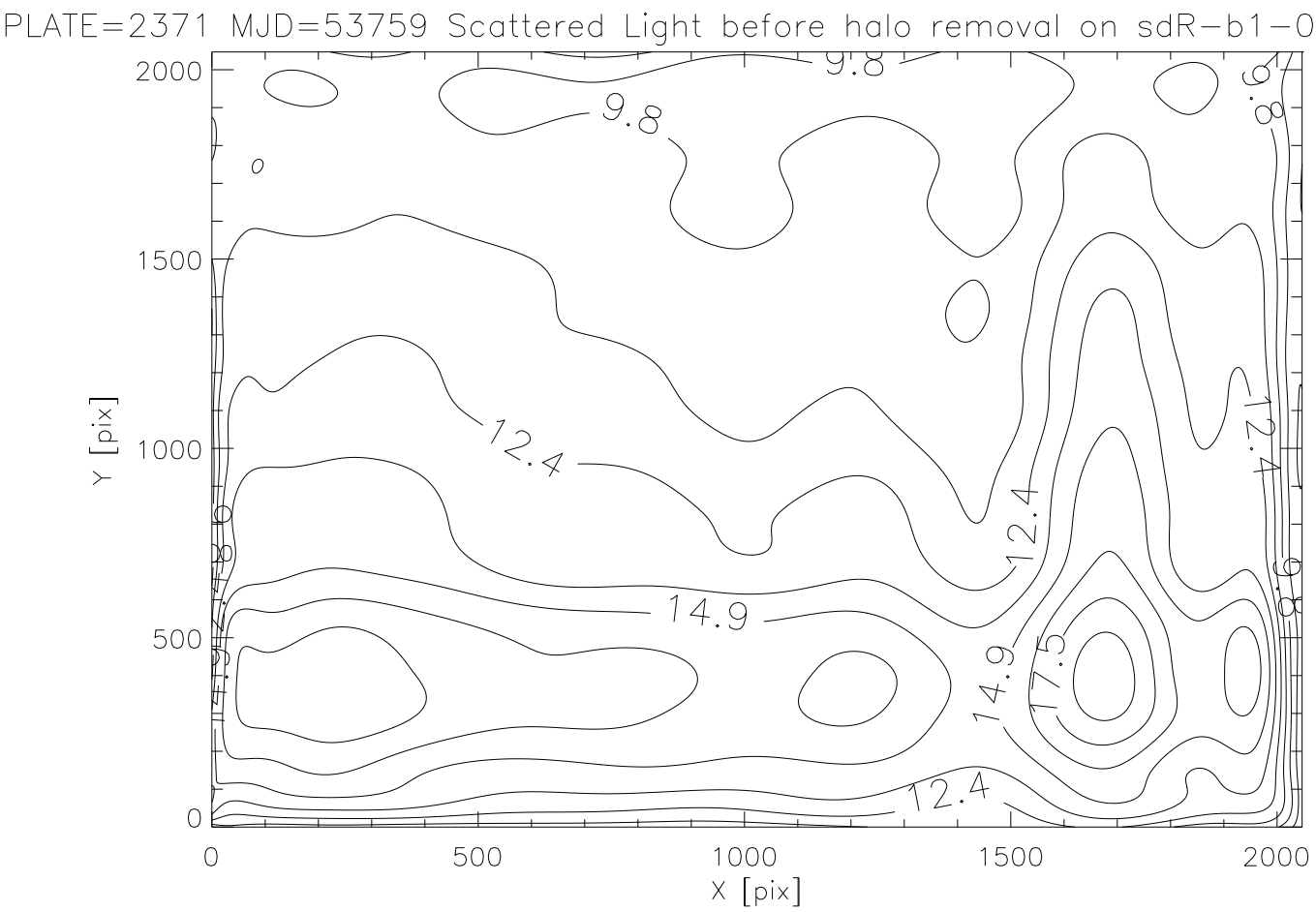

PLATE=2371 MJD=53759 sdR-b1-00036692.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

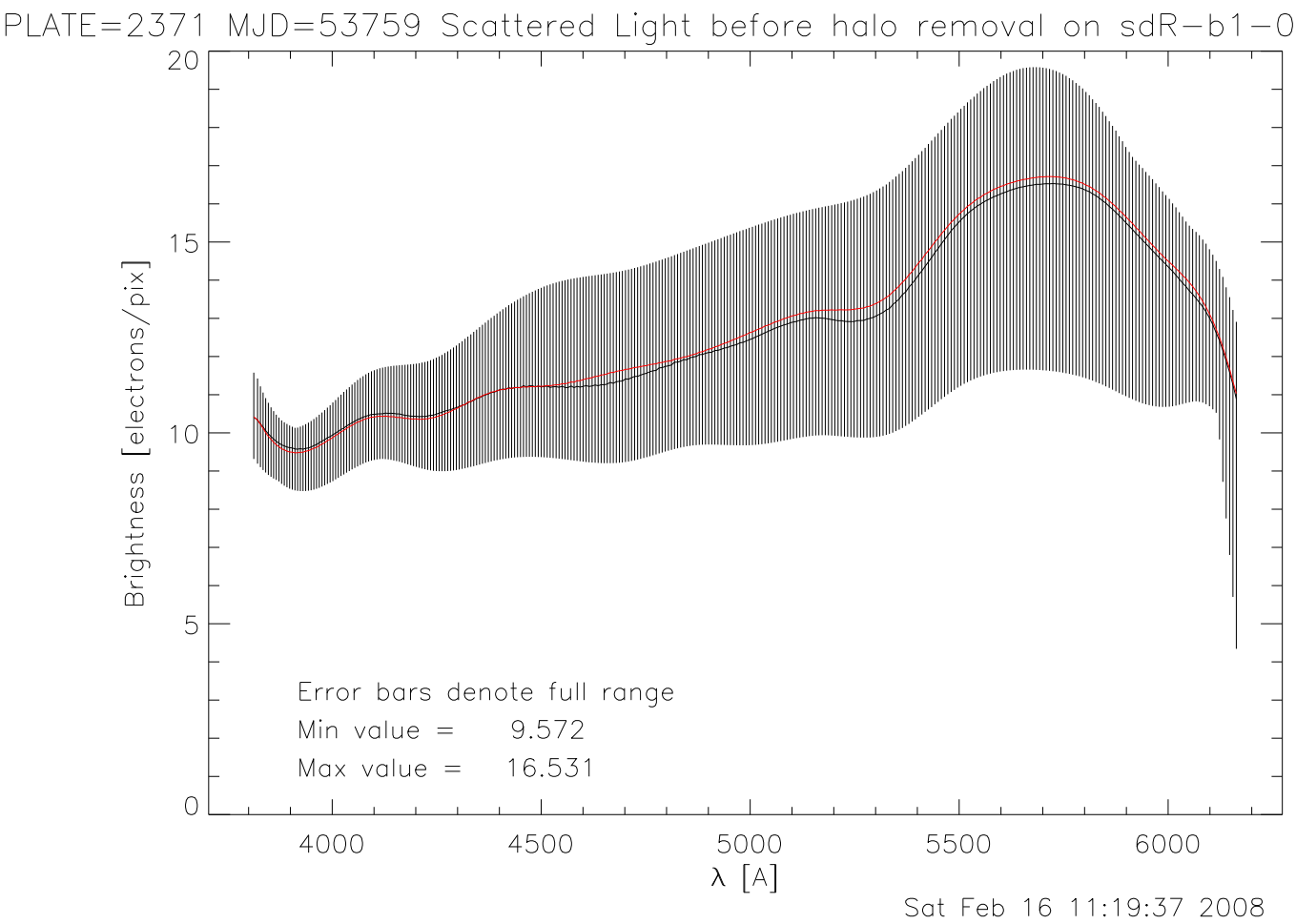

Number of sky fibers = 16
PLATE=2371 MJD=53759 sdR-b1-00036692.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

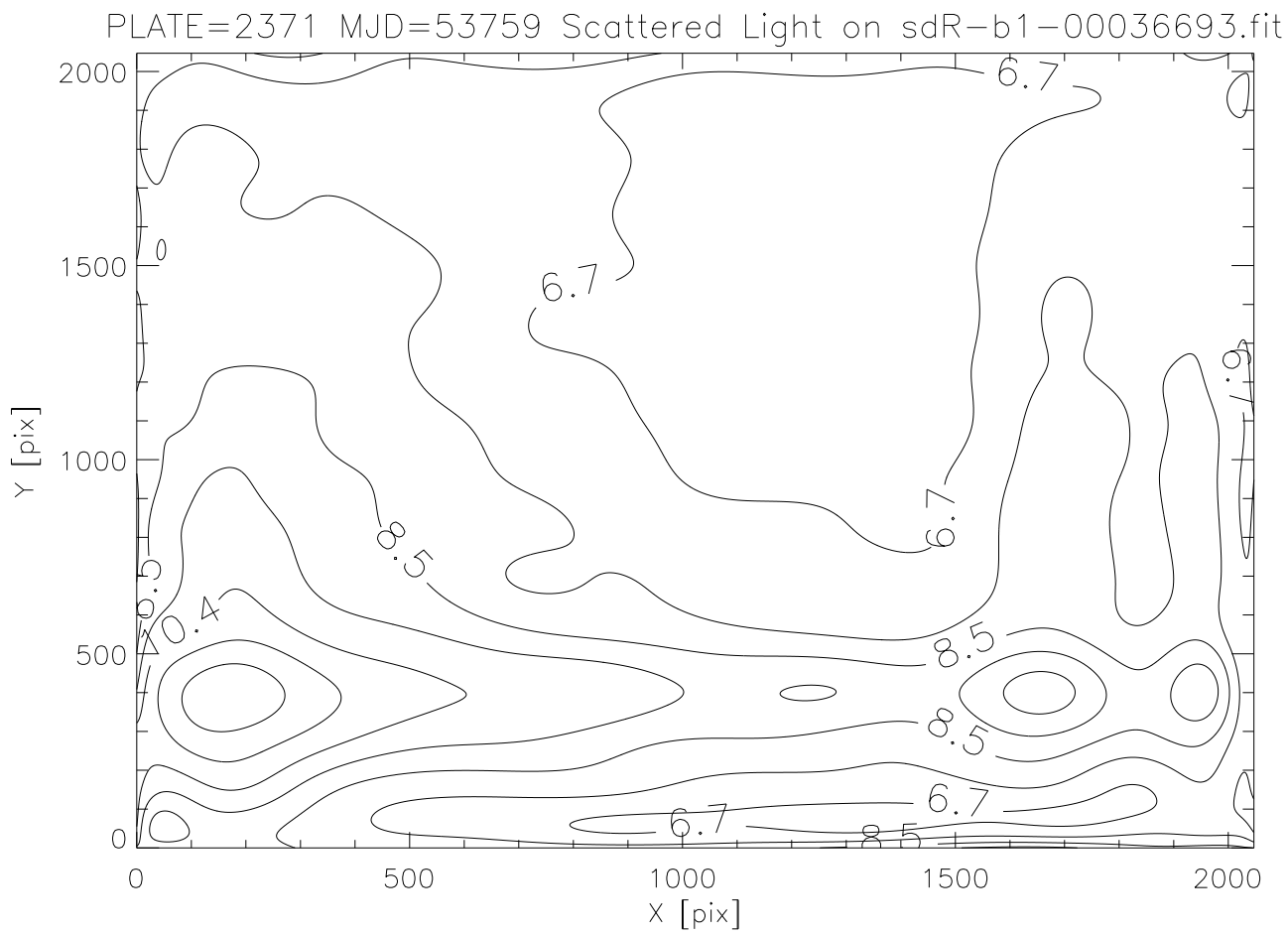

PLATE=2371 MJD=53759 sdR-b1-00036692.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 13.34 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

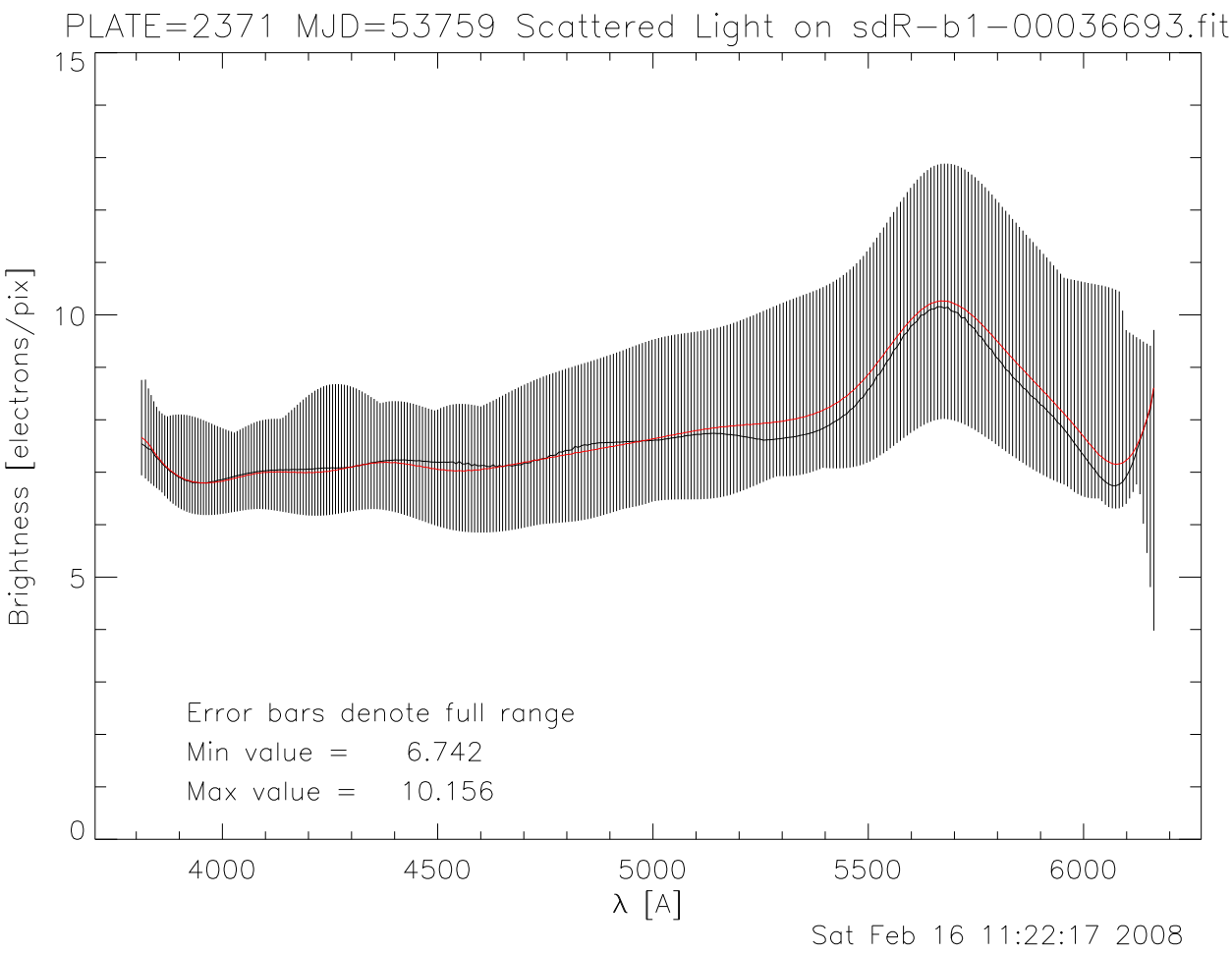

PLATE=2371 MJD=53759 sdR-b1-00036692.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.21 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

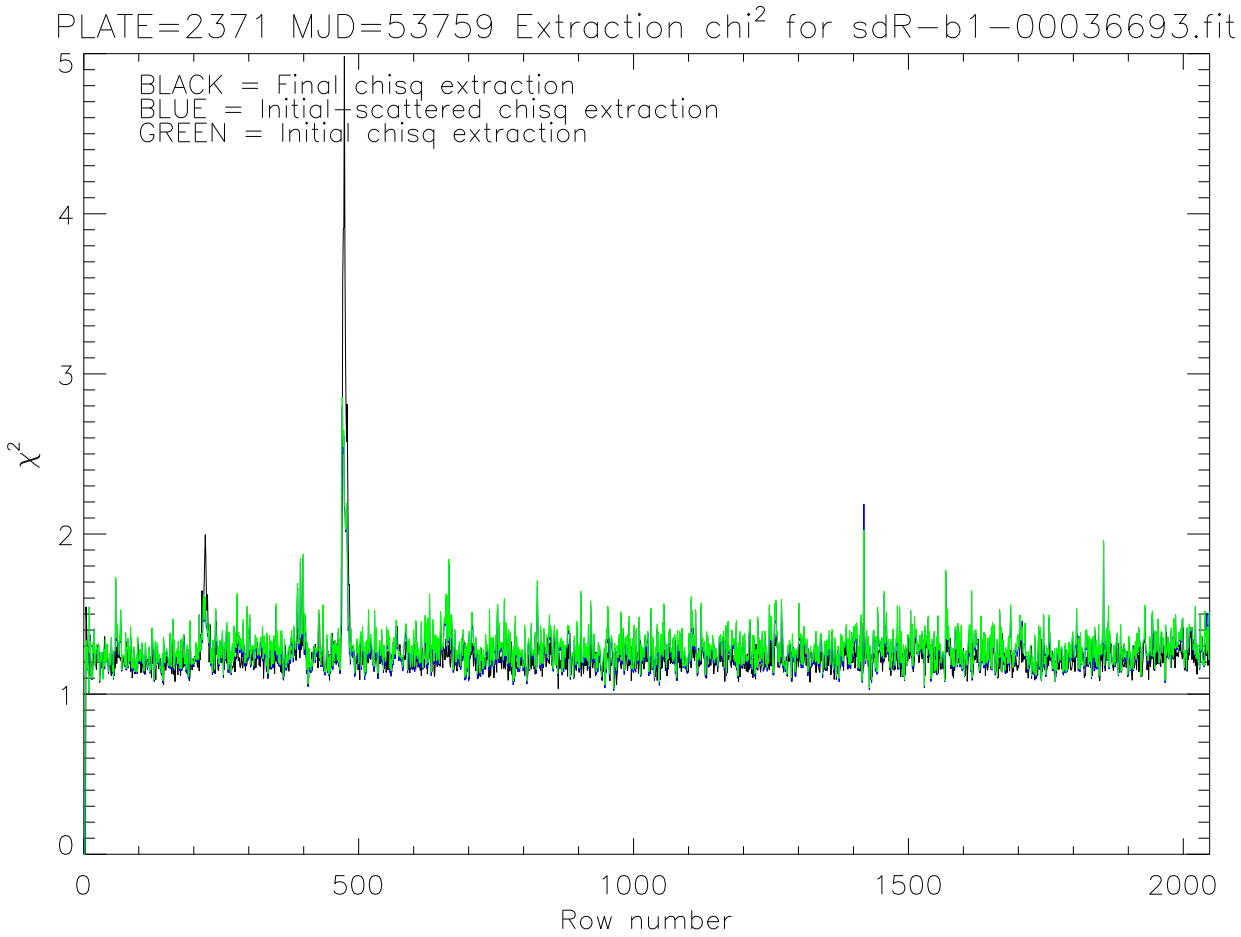

PLATE=2371 MJD=53759 Fiber−Flats for sdR−b1−00036690.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.514
Max value = 1.240
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 11:18:44 2008

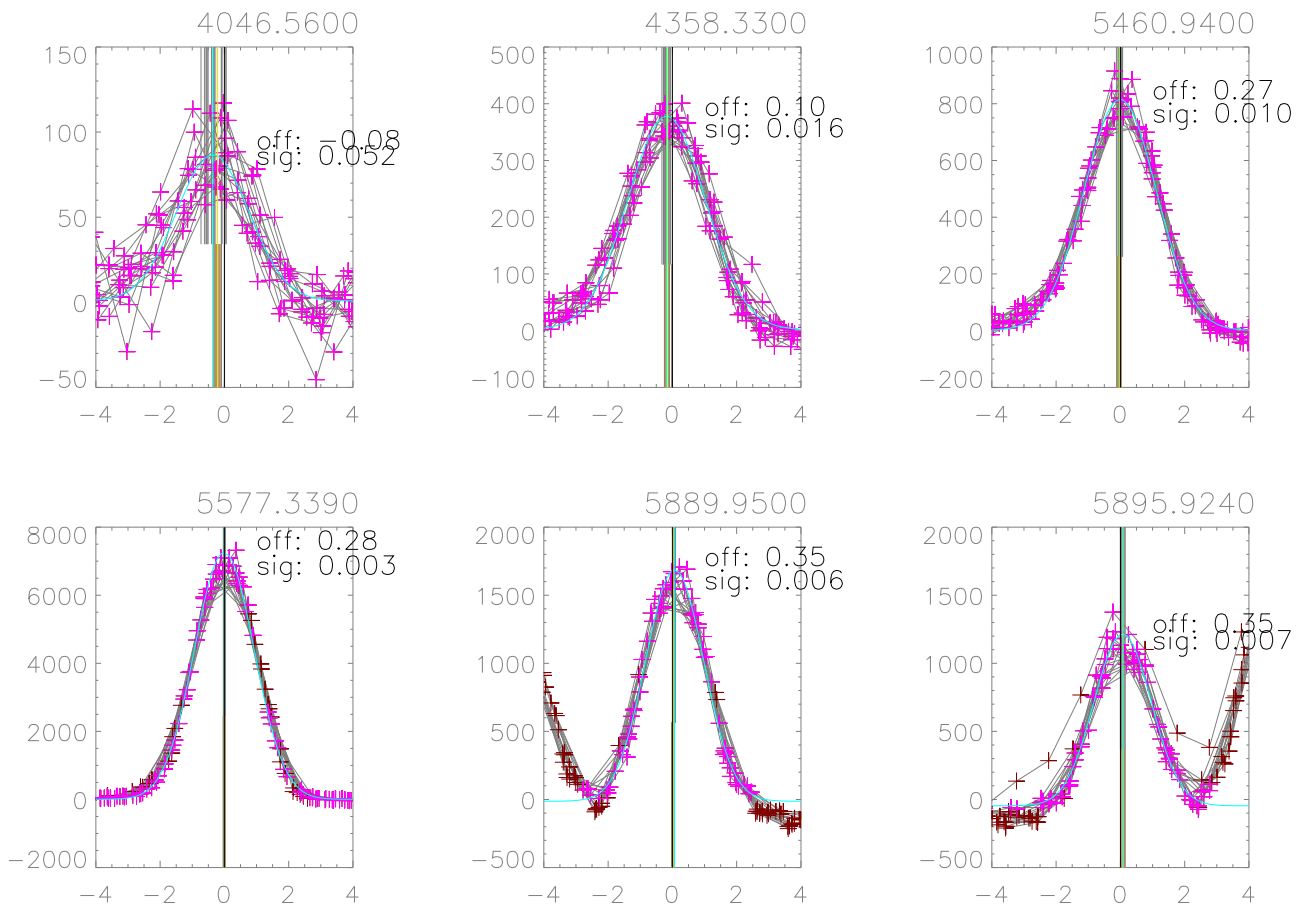

PLATE=2371 MJD=53759 Scattered Light before halo removal on sdR−b1−00036693.f
9.8
9.8
9.8
12.4
12.4
12.4
14.9
14.9
17.5
12.4
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

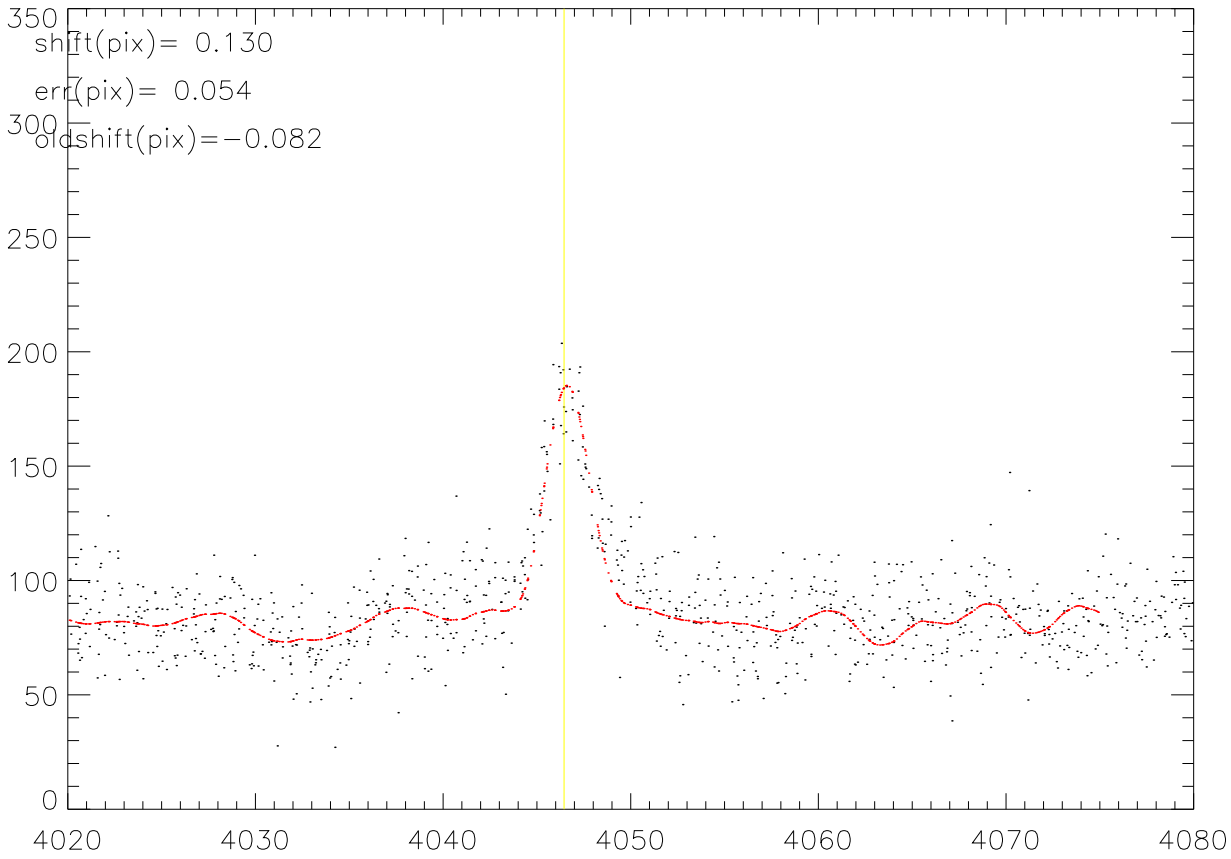

PLATE=2371 MJD=53759 Scattered Light before halo removal on sdR-b1-00036693.f
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 9.572
Max value = 16.531
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 11:19:37 2008

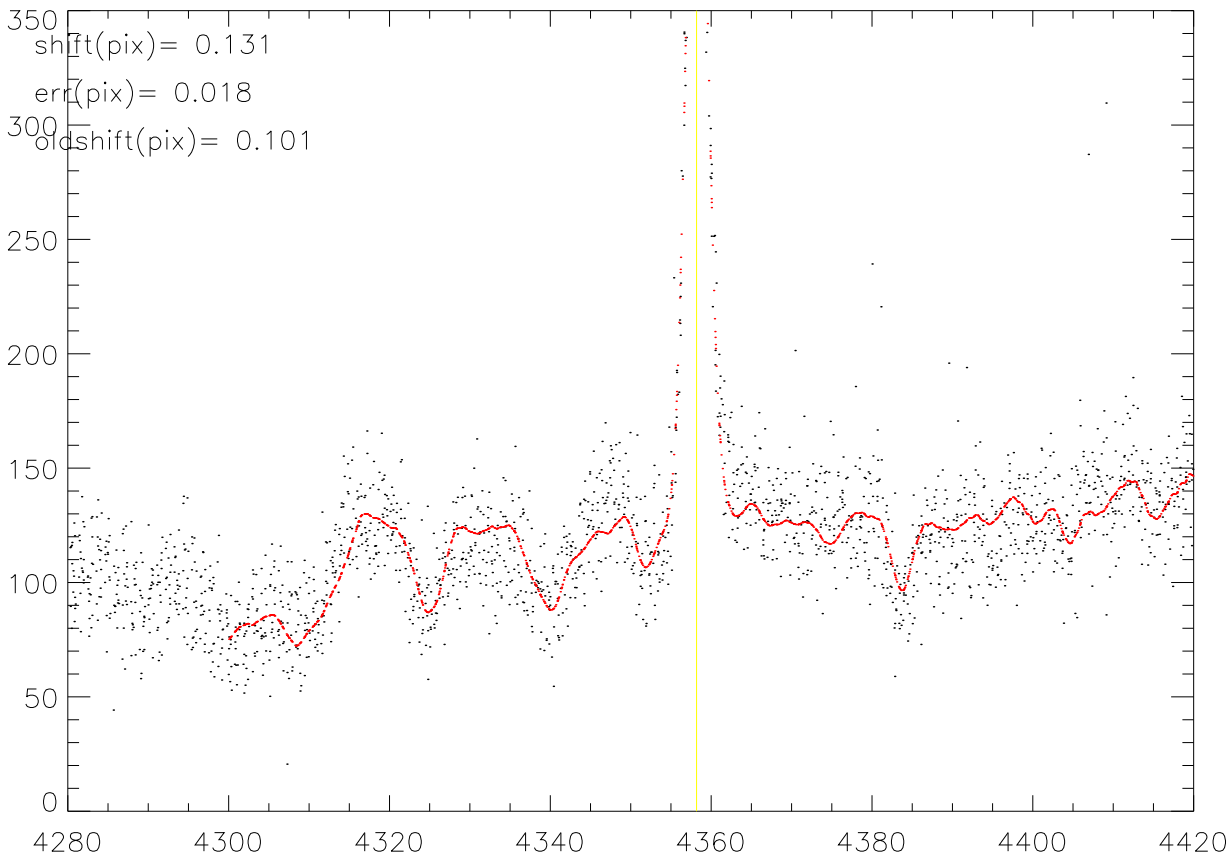

PLATE=2371 MJD=53759 Scattered Light on sdR-b1-00036693.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
6.7
8.5
0.4
0

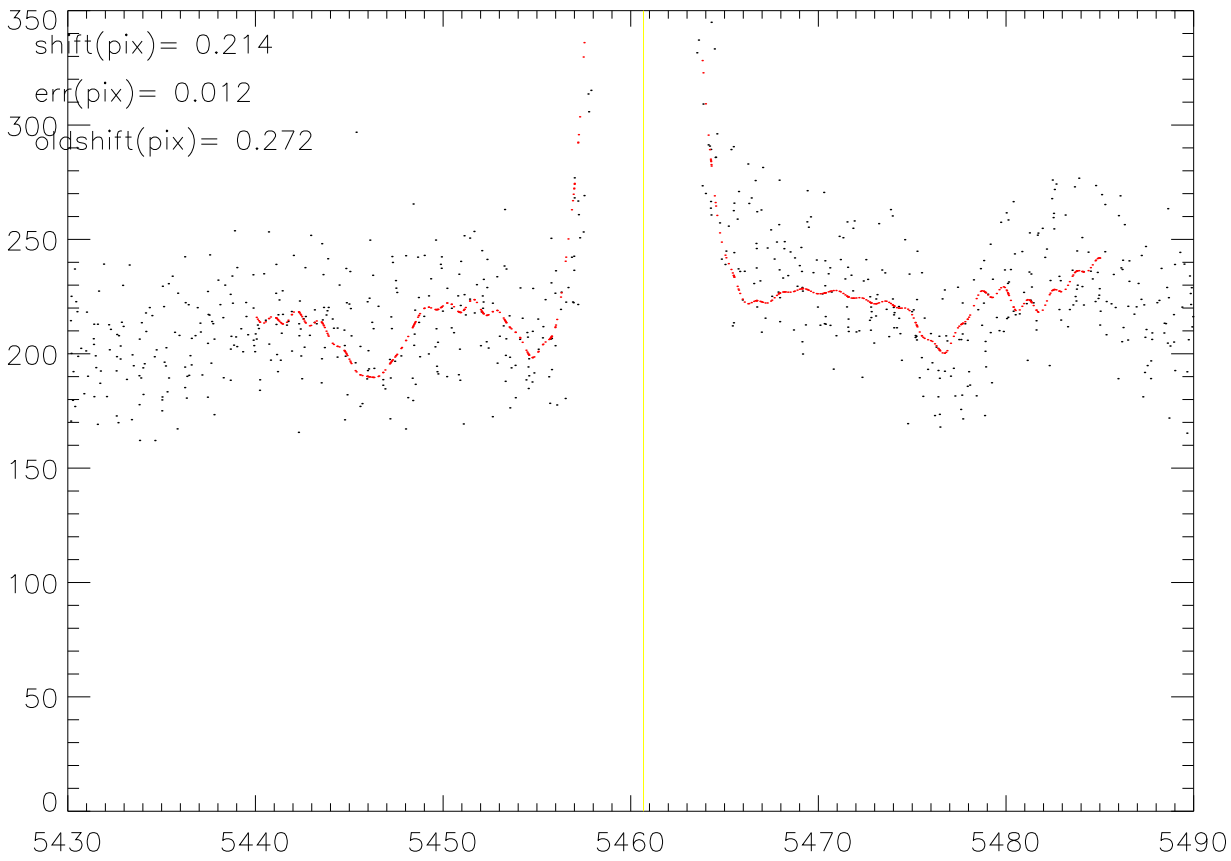

PLATE=2371 MJD=53759 Scattered Light on sdR-b1-00036693.fit
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 6.742
Max value = 10.156
Sat Feb 16 11:22:17 2008

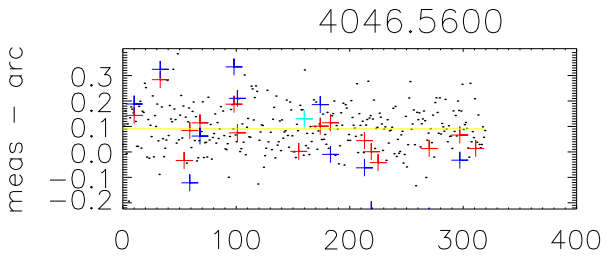

PLATE=2371 MJD=53759 Extraction chi^2 for sdR−b1−00036693.fit
BLACK = Final chisq extraction
BLUE = Initial+scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

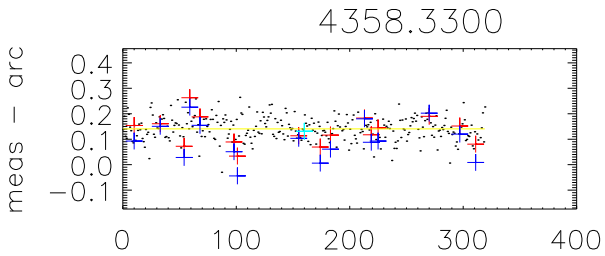

4046.5600
off: −0.08
sig: 0.052
4358.3300
off: 0.10
sig: 0.016
5460.9400
off: 0.27
sig: 0.010
5577.3390
off: 0.28
sig: 0.003
5889.9500
off: 0.35
sig: 0.006
5895.9240
off: 0.35
sig: 0.007

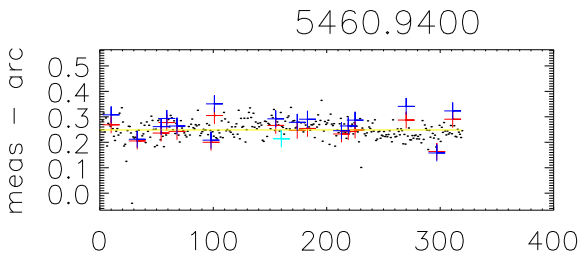

shift(pix)= 0.130
err(pix)= 0.054
oldshift(pix)=-0.082
350
300
250
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

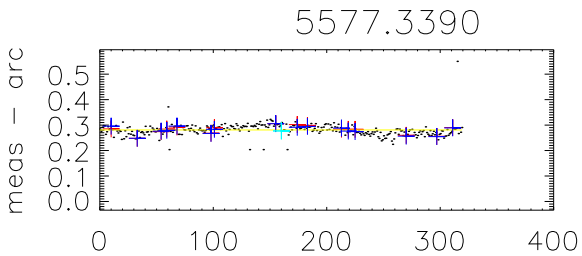

shift(pix)= 0.131
err(pix)= 0.018
oldshift(pix)= 0.101
350
300
250
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

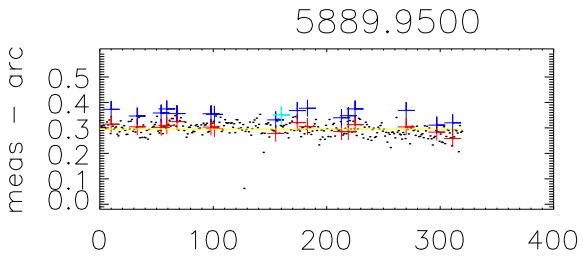

shift(pix)= 0.214
err(pix)= 0.012
oldshift(pix)= 0.272
350
300
250
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

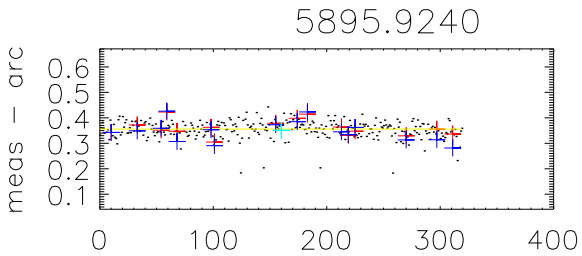

4046.5600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

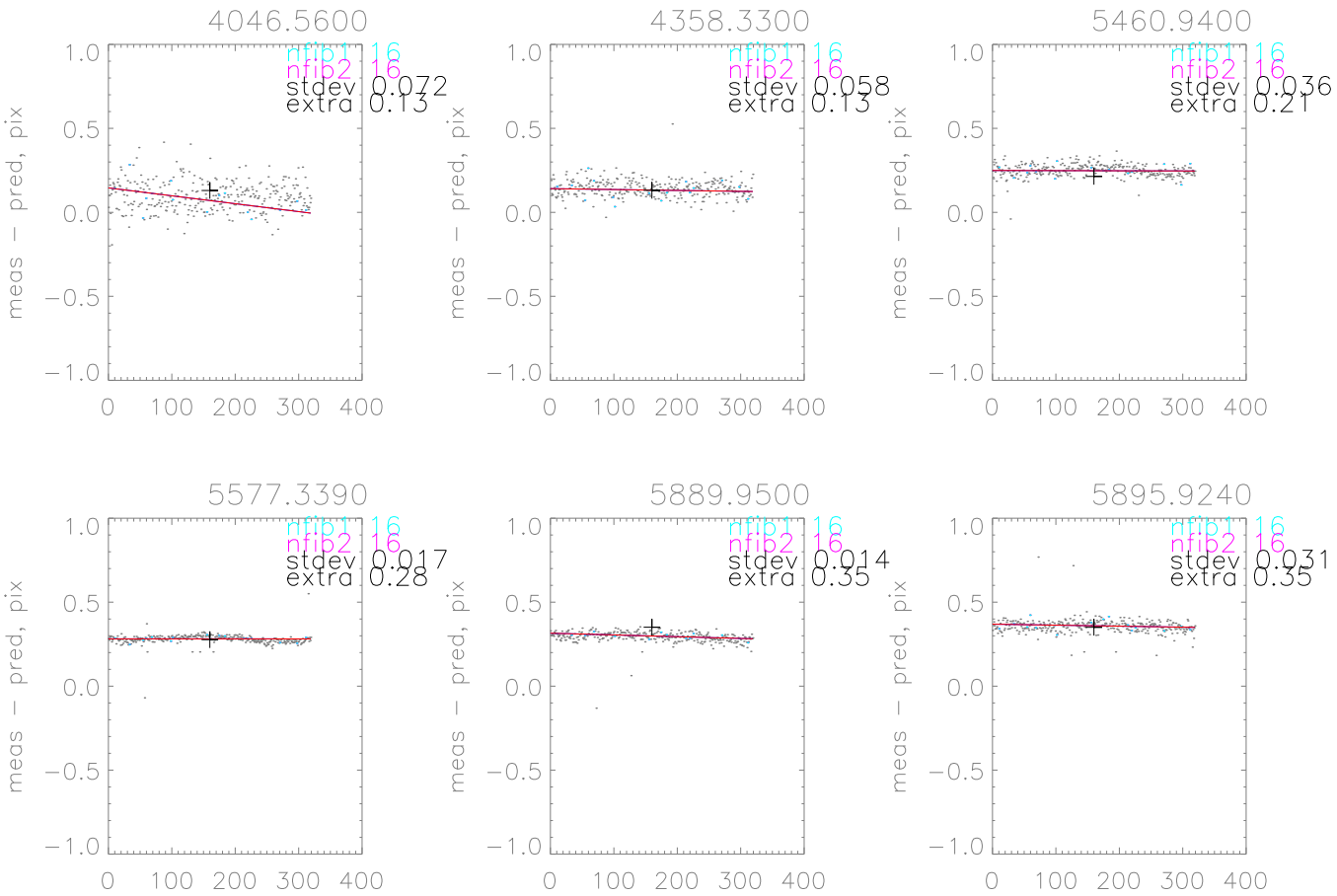

4358.3300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

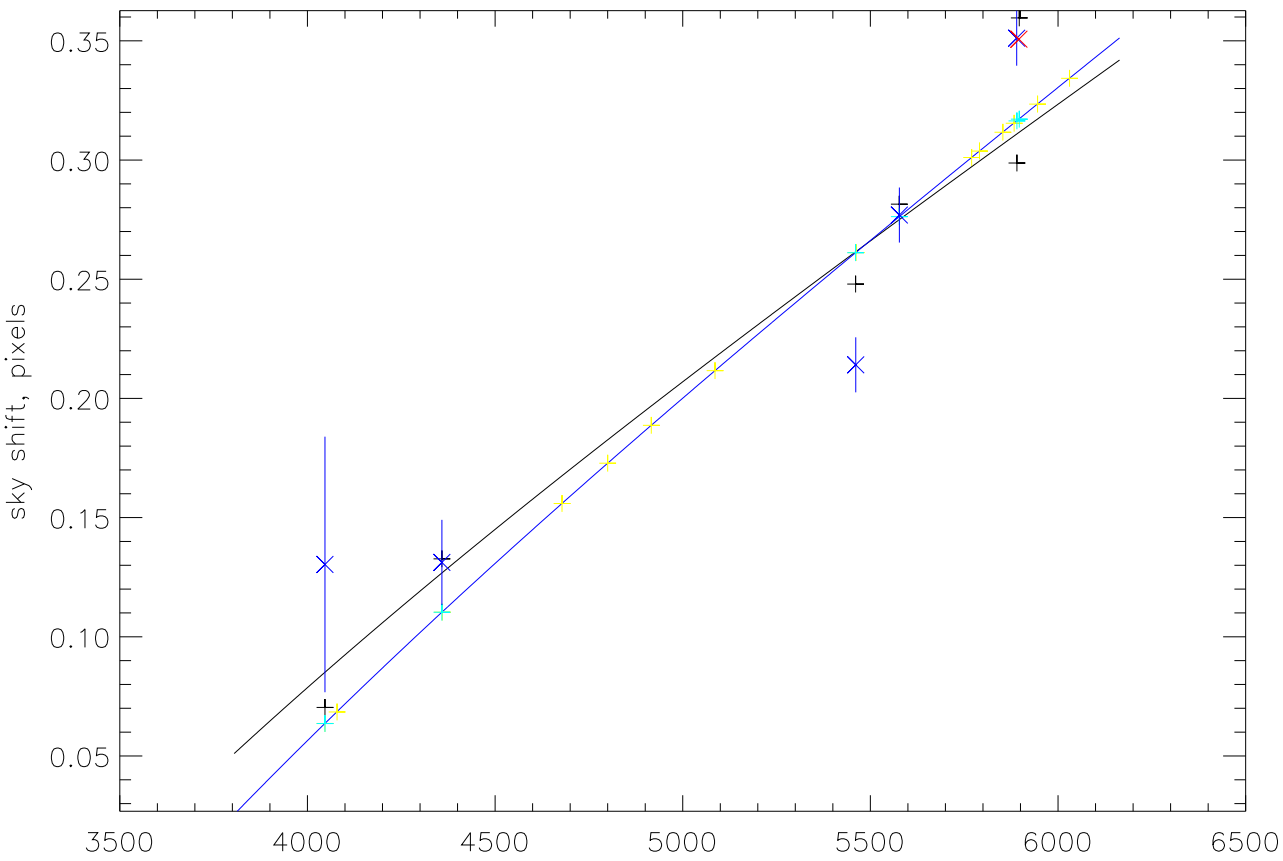

5460.9400
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400


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

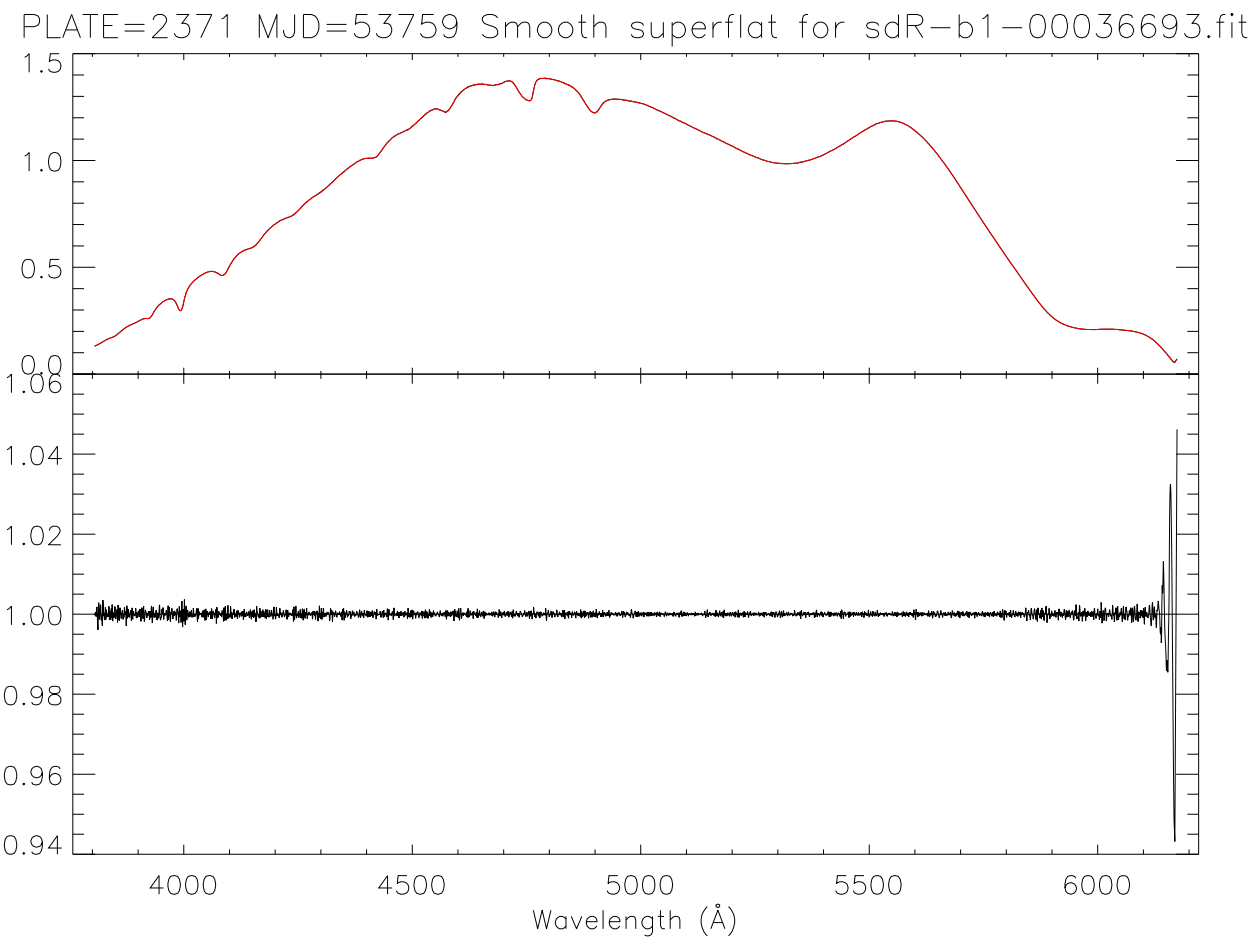

5889.9500
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

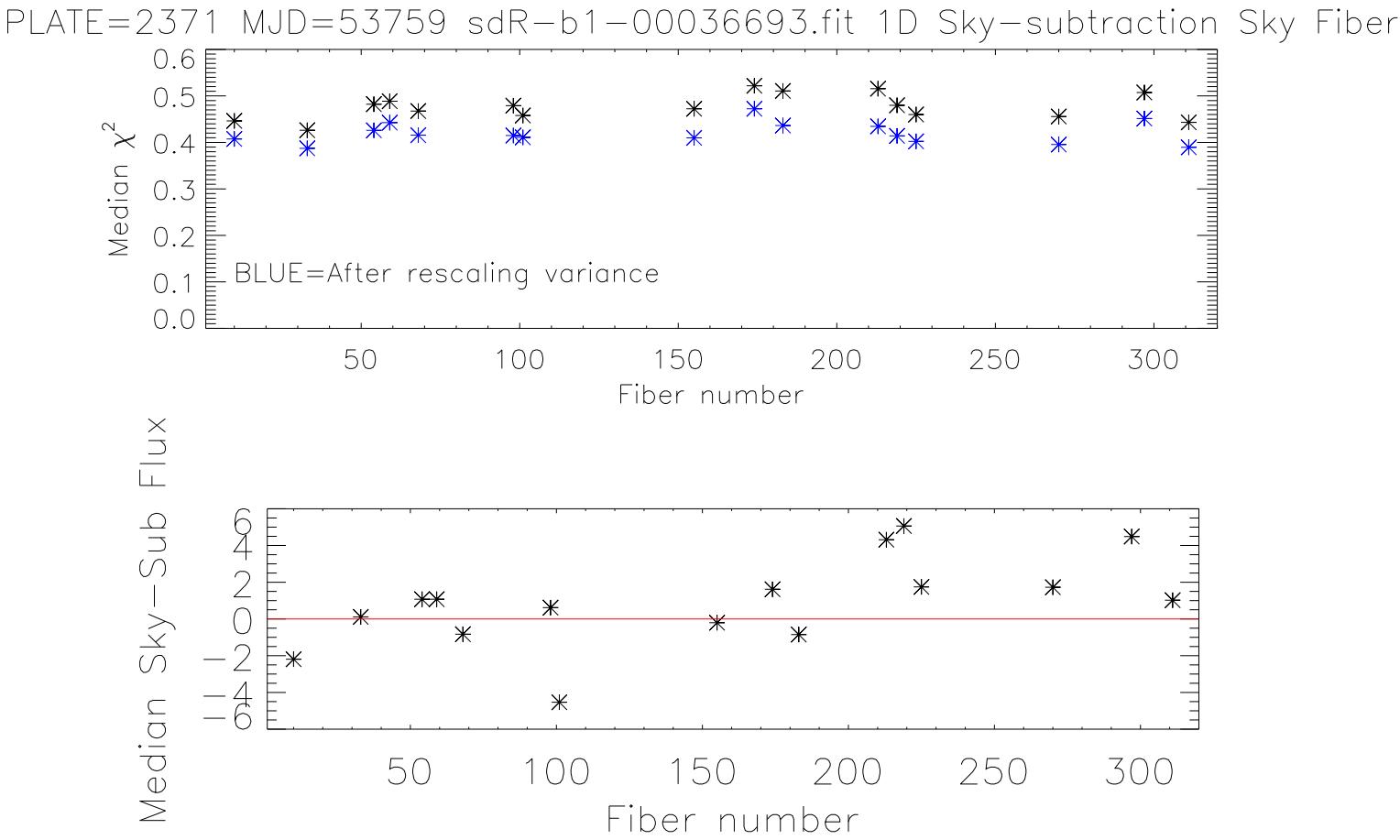

5895.9240
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

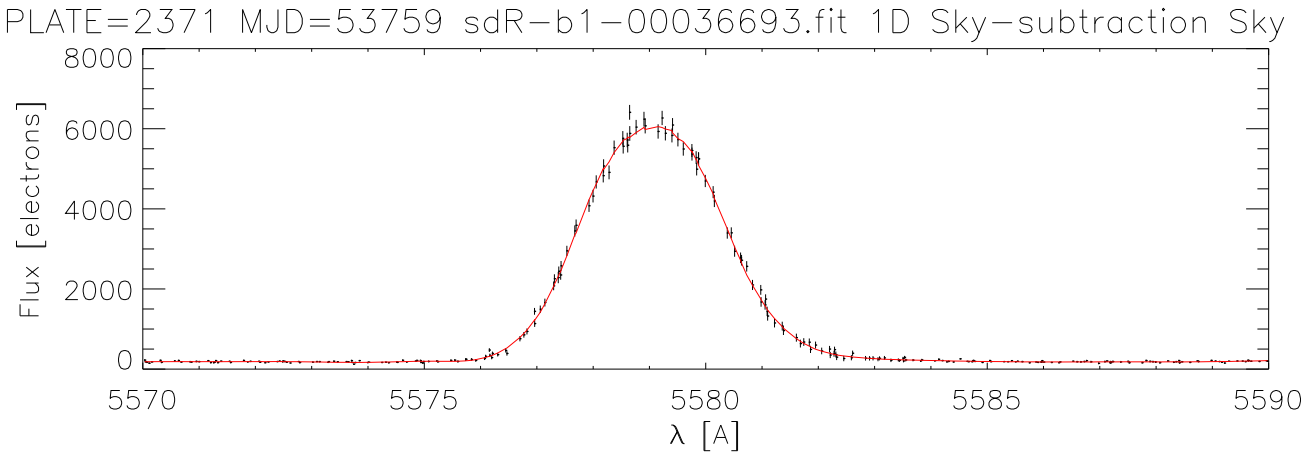

4046.5600
nfib1 16
nfib2 16
stdev 0.072
extra 0.13
4358.3300
nfib1 16
nfib2 16
stdev 0.058
extra 0.13
5460.9400
nfib1 16
nfib2 16
stdev 0.036
extra 0.21
5577.3390
nfib1 16
nfib2 16
stdev 0.017
extra 0.28
5889.9500
nfib1 16
nfib2 16
stdev 0.014
extra 0.35
5895.9240
nfib1 16
nfib2 16
stdev 0.031
extra 0.35
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

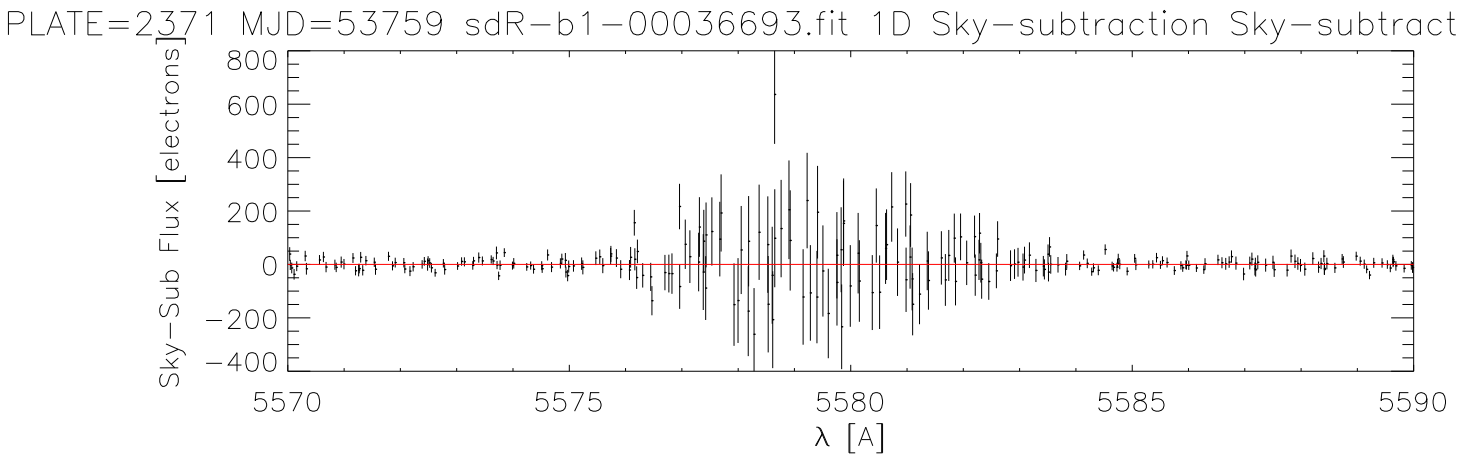

sky shift, pixels
0.35
0.30
0.25
0.20
0.15
0.10
0.05
3500
4000
4500
5000
5500
6000
6500

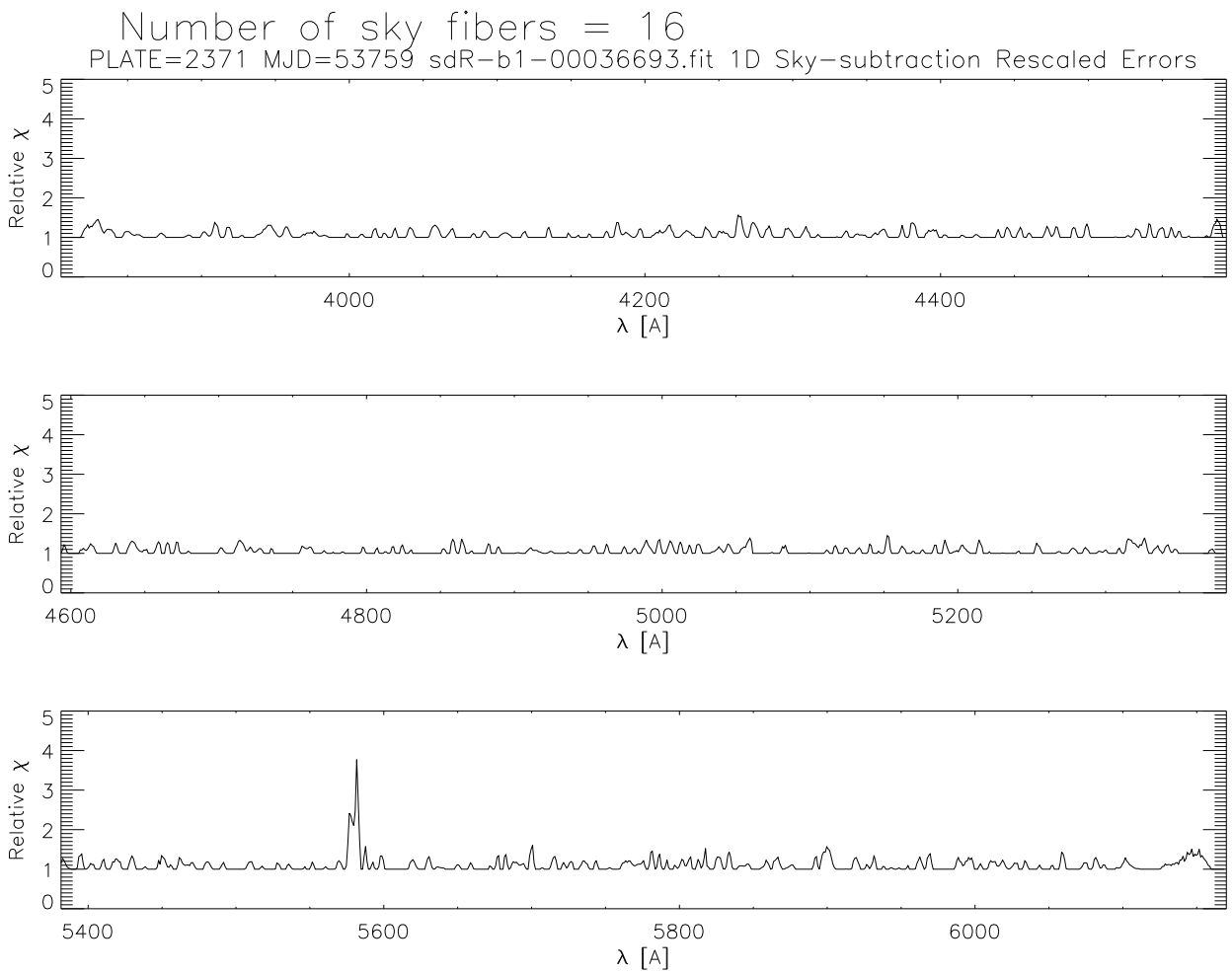
es= −0.0002

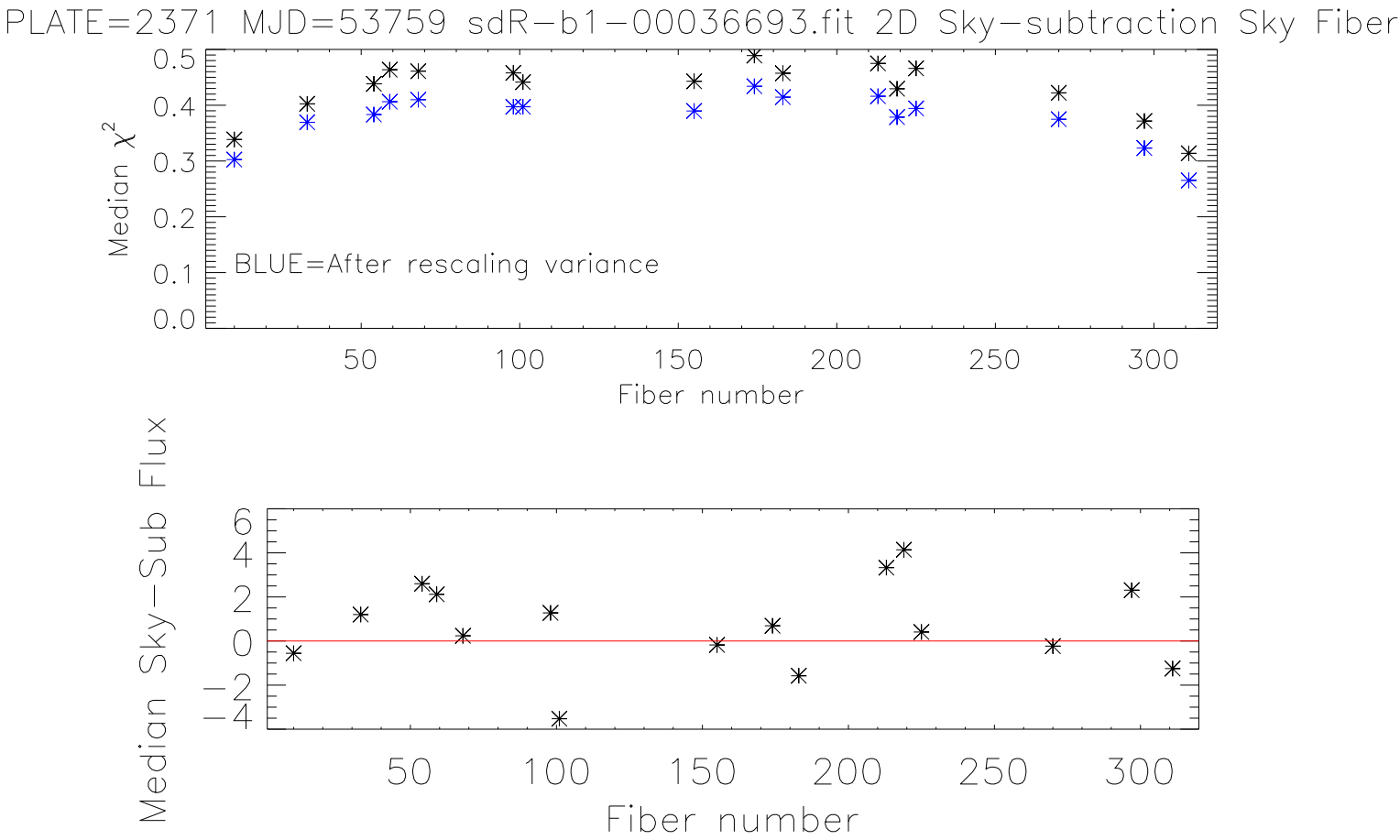

PLATE=2371 MJD=53759 Smooth superflat for sdR−b1−00036693.fit
1.5
1.0
0.5
0.0
1.06
1.04
1.02
1.00
0.98
0.96
0.94
4000
4500
5000
5500
6000
Wavelength (Å)

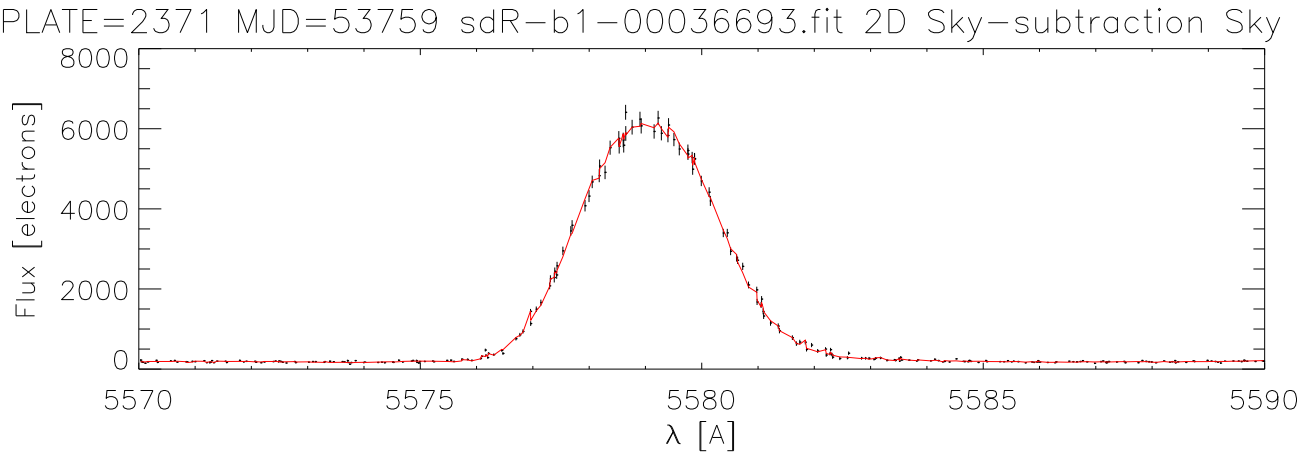

PLATE=2371 MJD=53759 sdR-b1-00036693.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

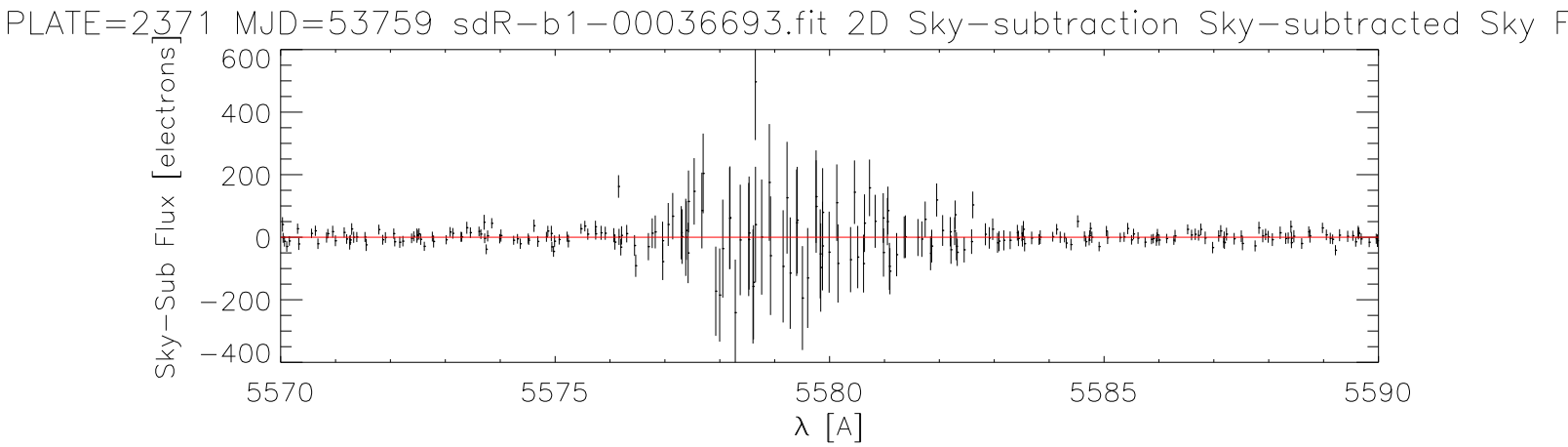

PLATE=2371 MJD=53759 sdR-b1-00036693.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

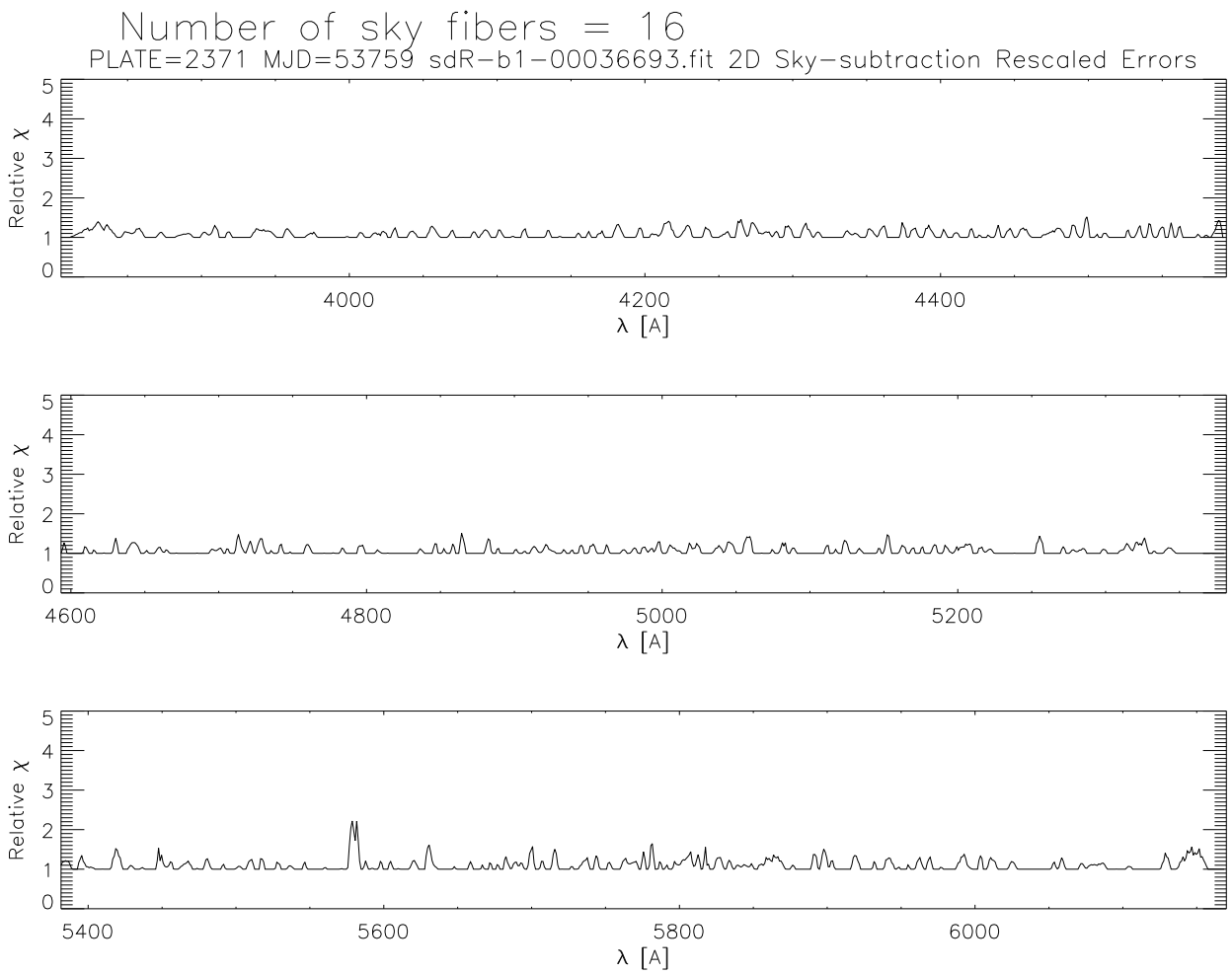

PLATE=2371 MJD=53759 sdR-b1-00036693.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

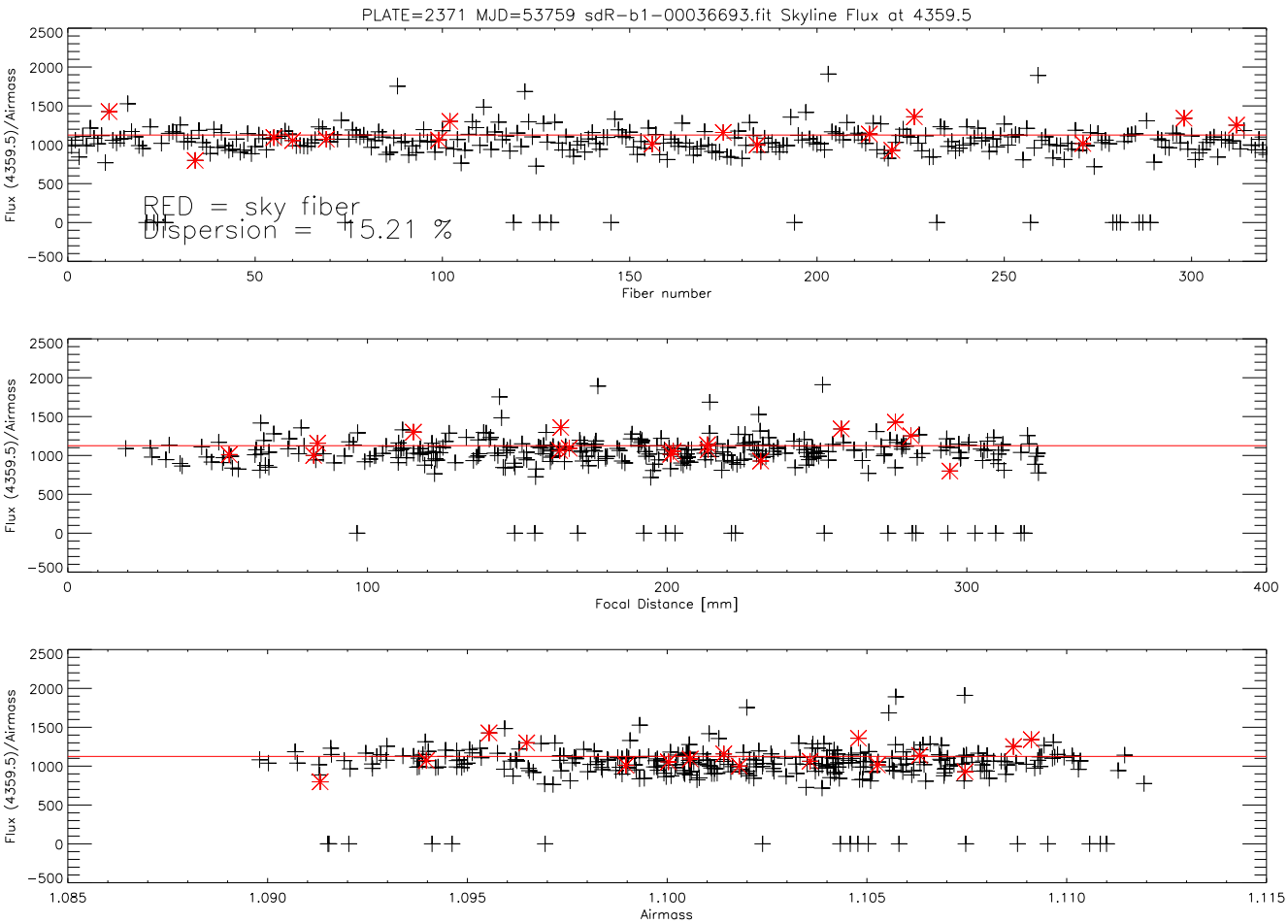

Number of sky fibers = 16
PLATE=2371 MJD=53759 sdR-b1-00036693.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

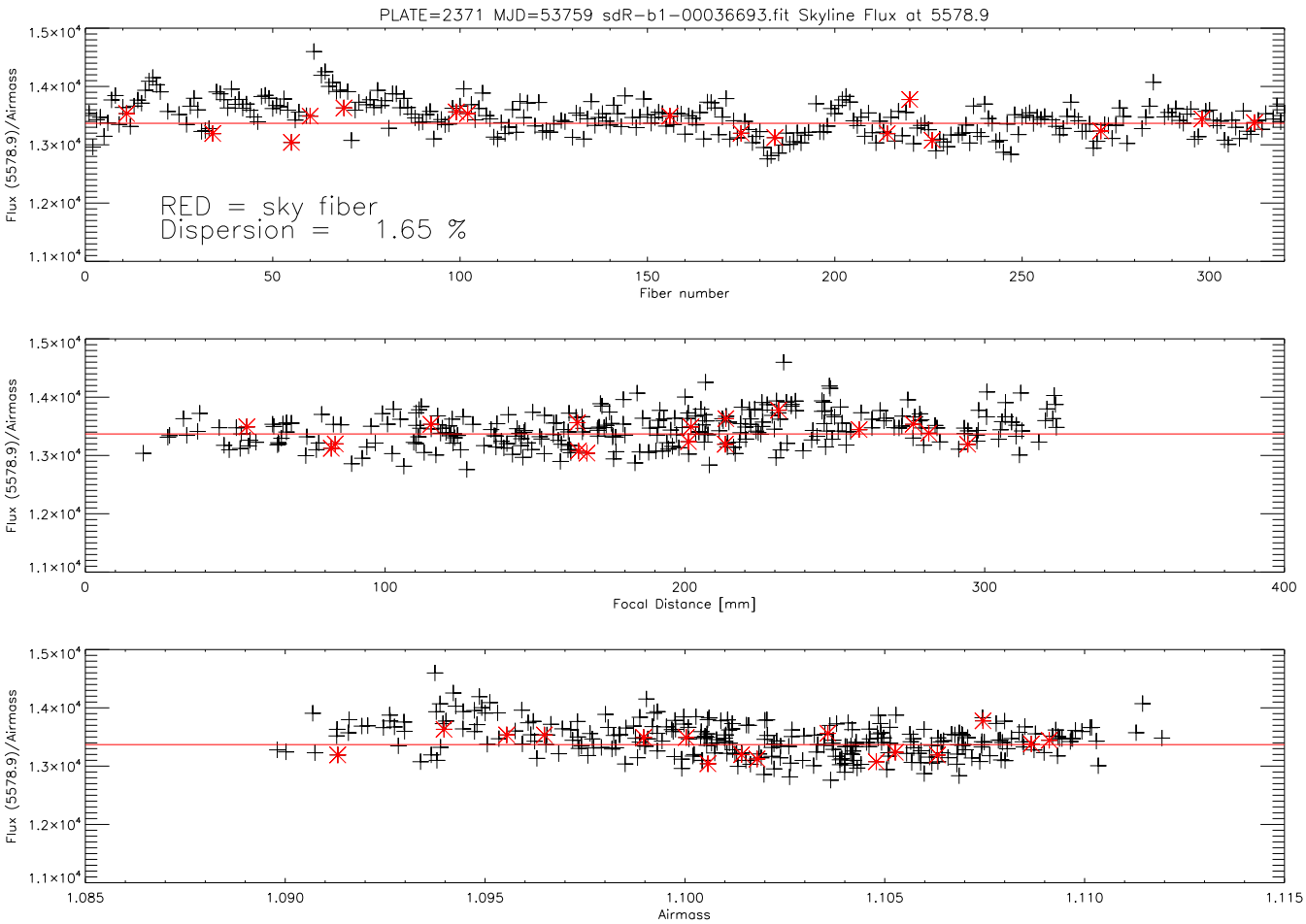

PLATE=2371 MJD=53759 sdR-b1-00036693.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

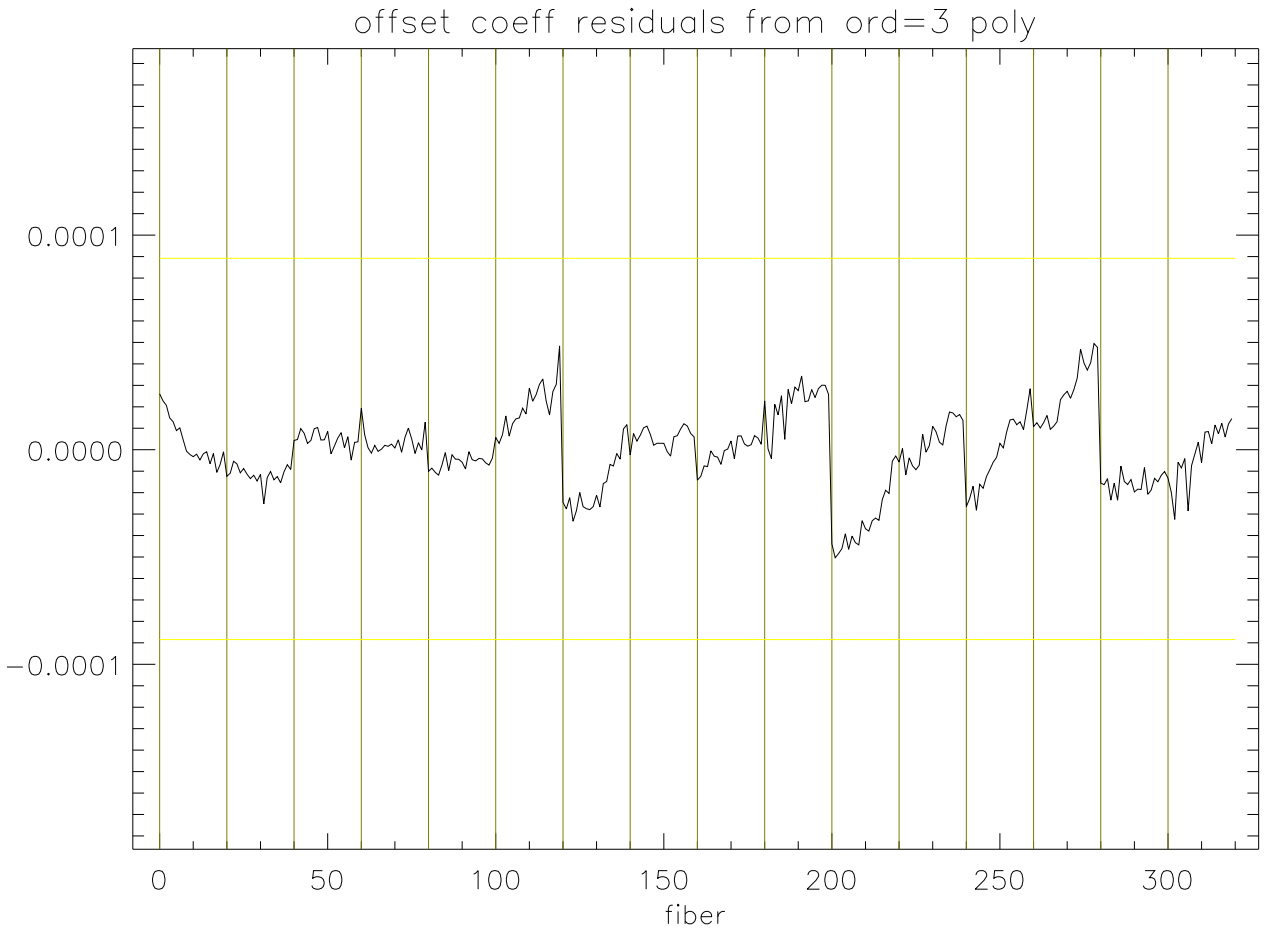

PLATE=2371 MJD=53759 sdR-b1-00036693.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

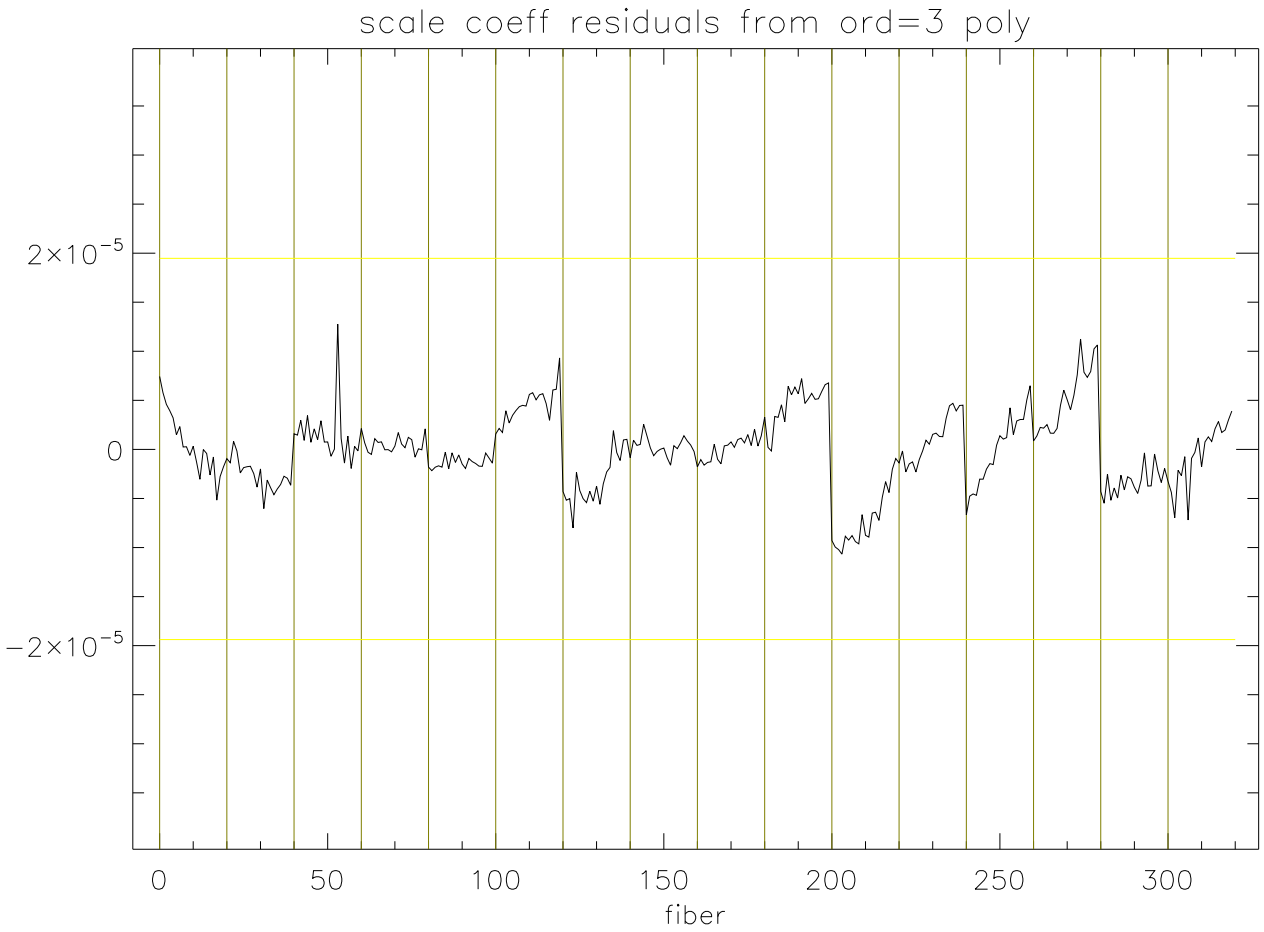

PLATE=2371 MJD=53759 sdR-b1-00036693.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

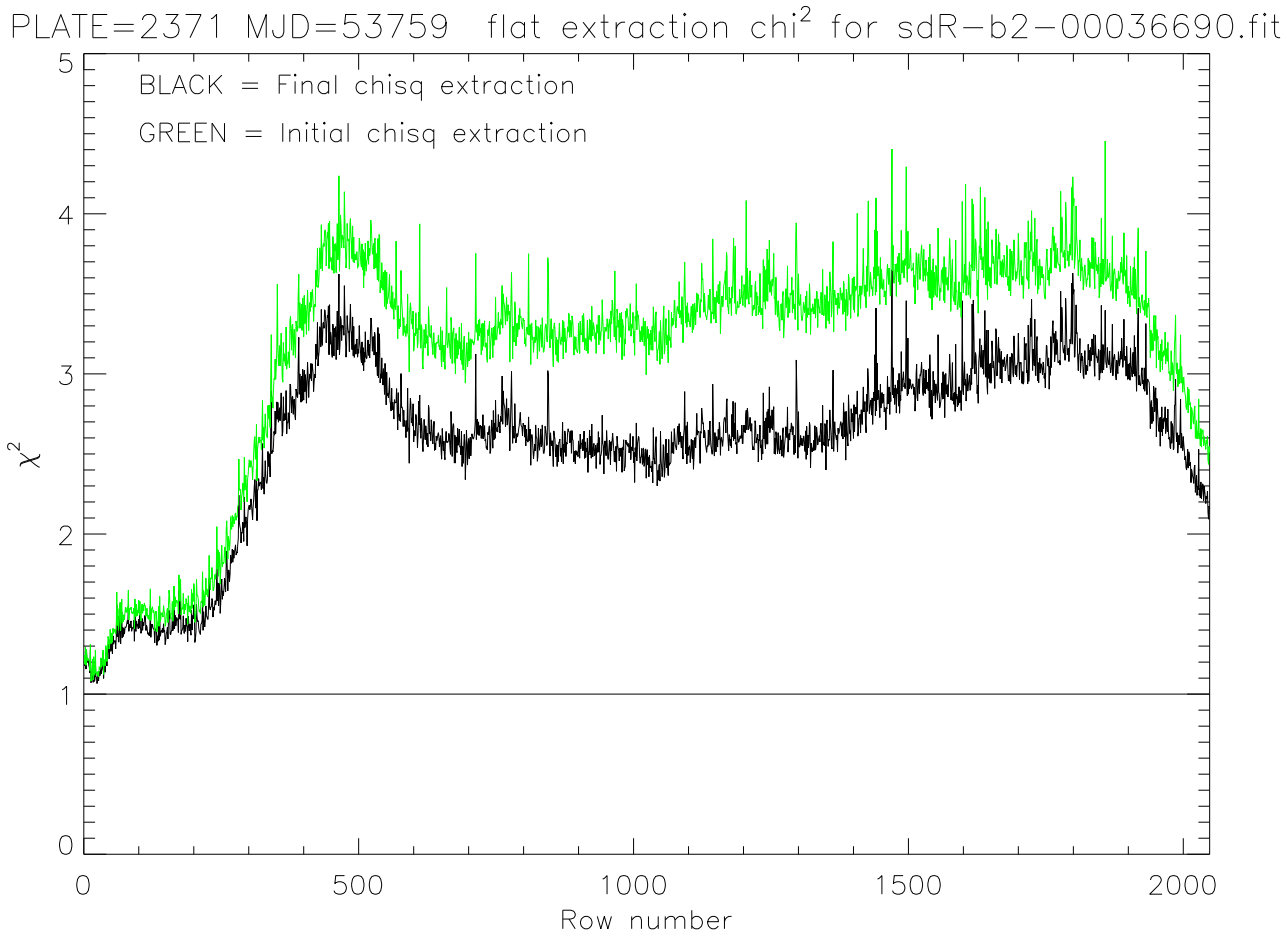

Number of sky fibers = 16
PLATE=2371 MJD=53759 sdR-b1-00036693.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

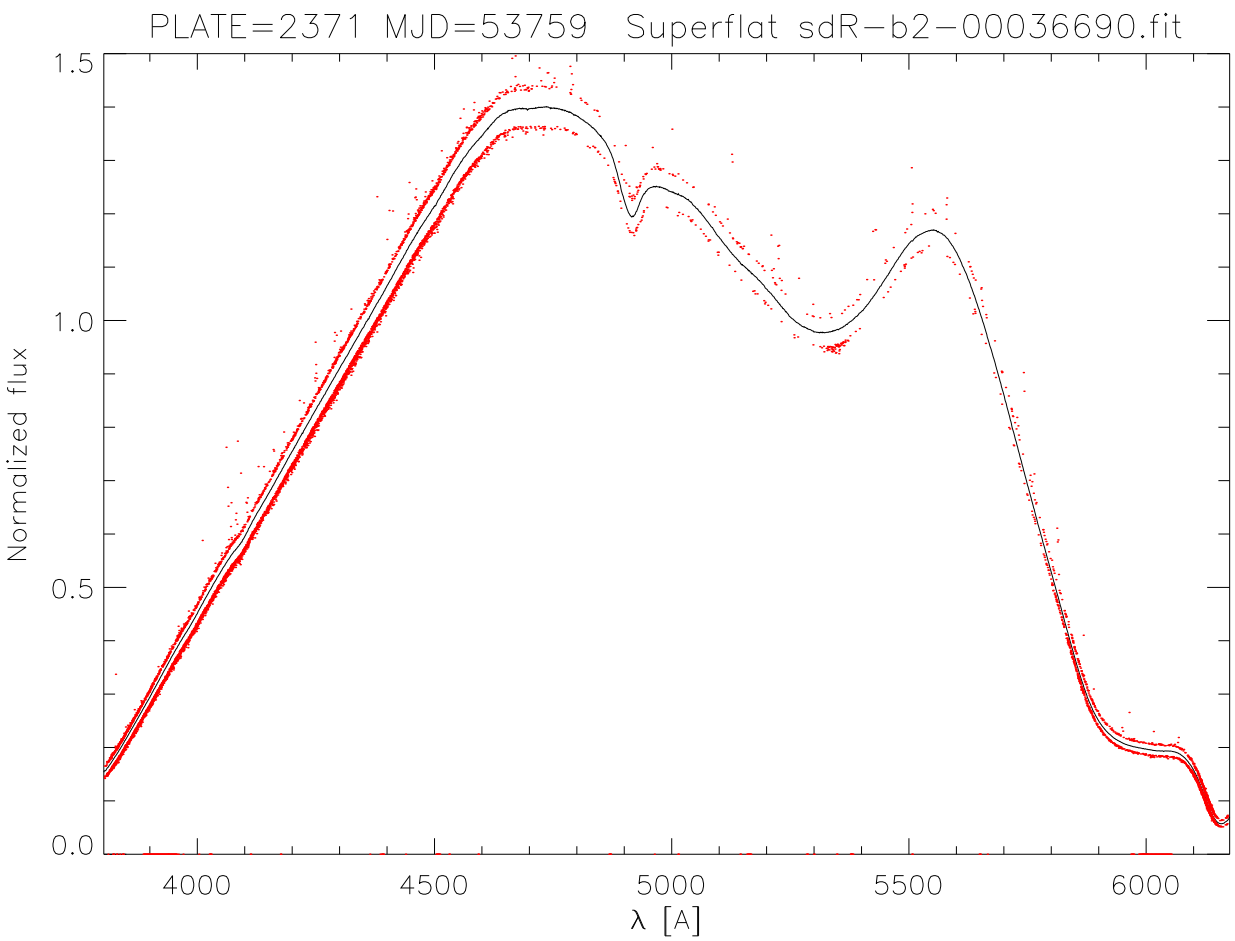

PLATE=2371 MJD=53759 sdR-b1-00036693.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 15.21 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

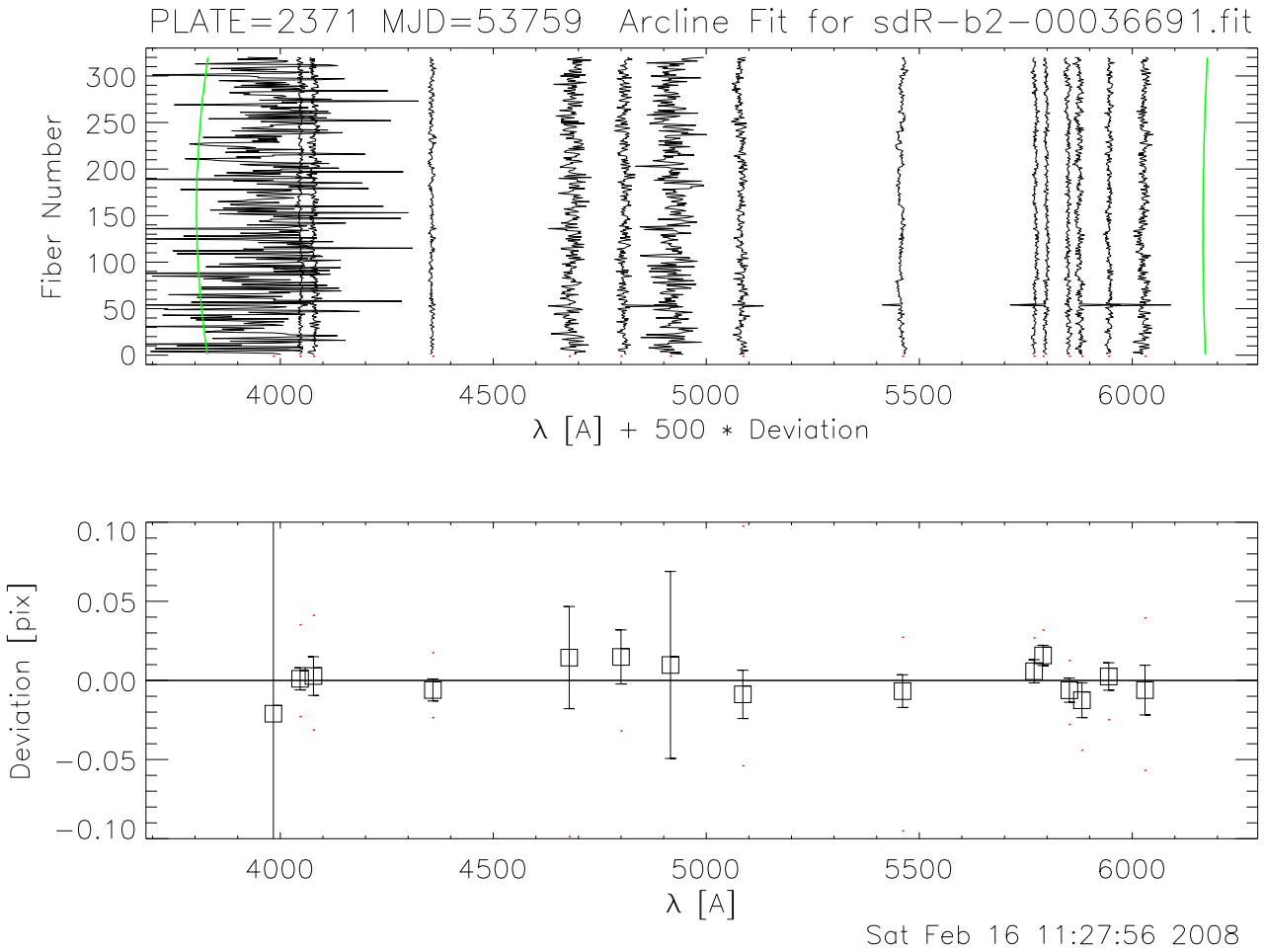

PLATE=2371 MJD=53759 sdR-b1-00036693.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.65 %
Fiber number
Focal Distance [mm]
Airmass

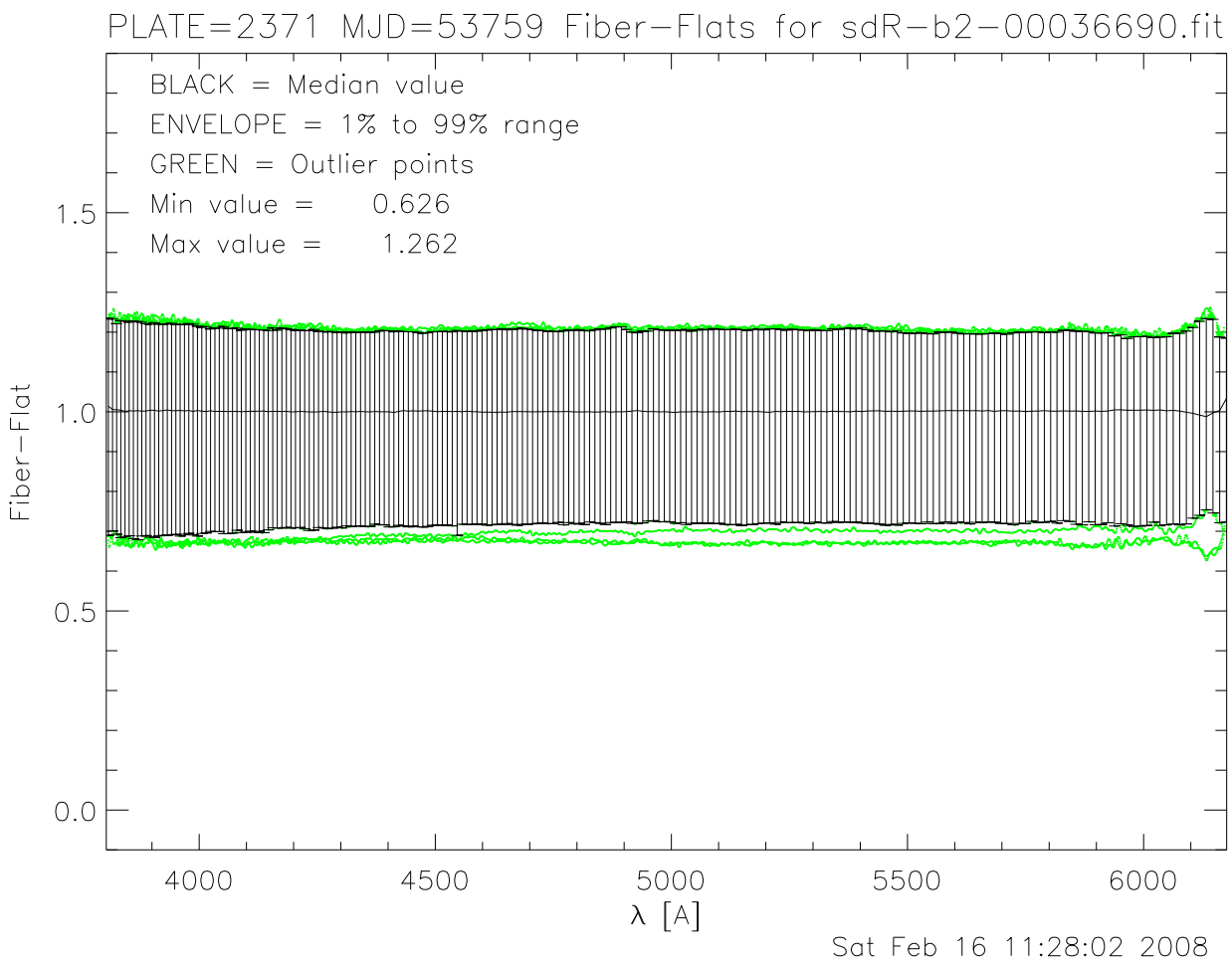

offset coeff residuals from ord=3 poly
0.0001
0.0000
−0.0001
0
50
100
150
200
250
300
fiber

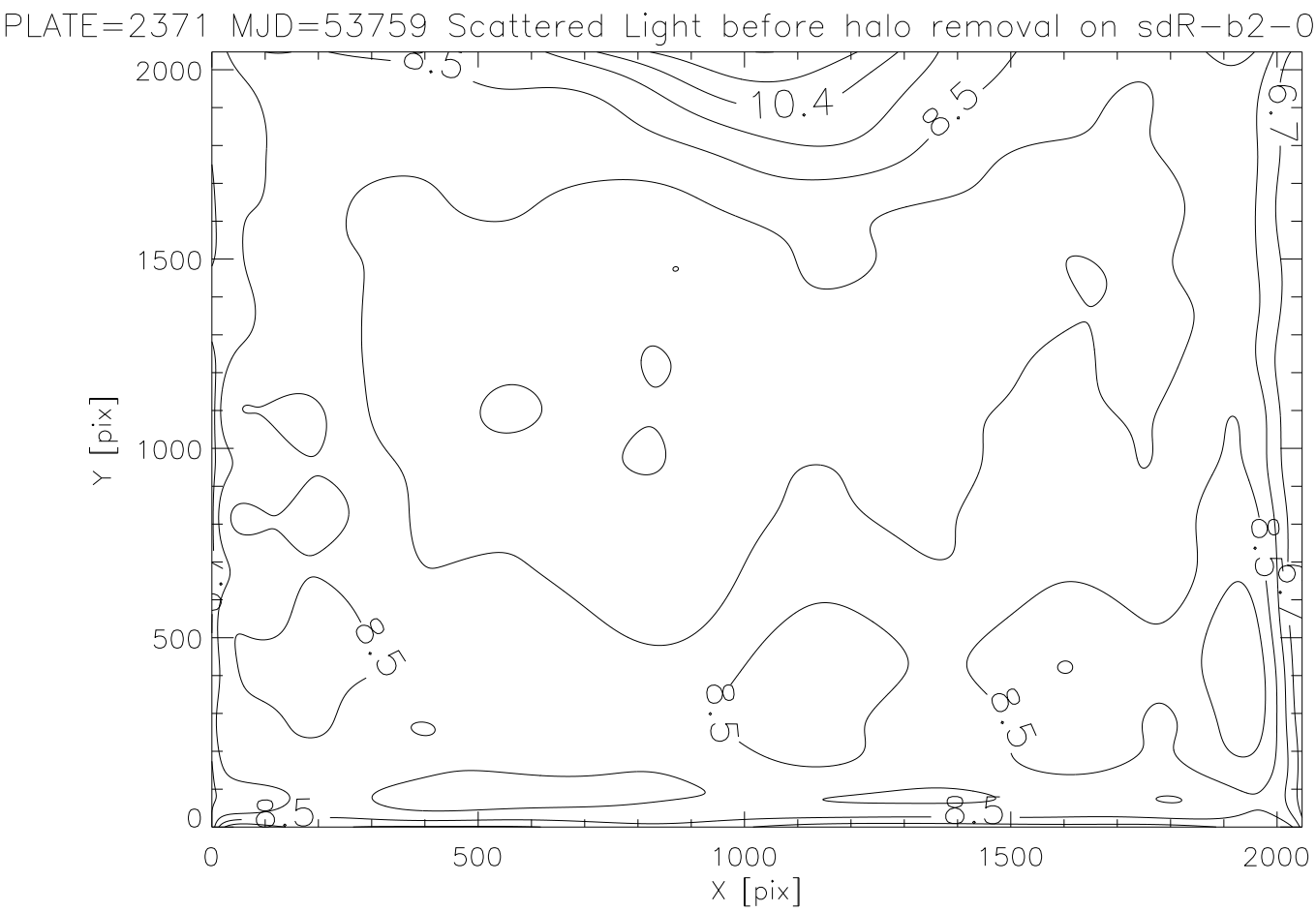

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

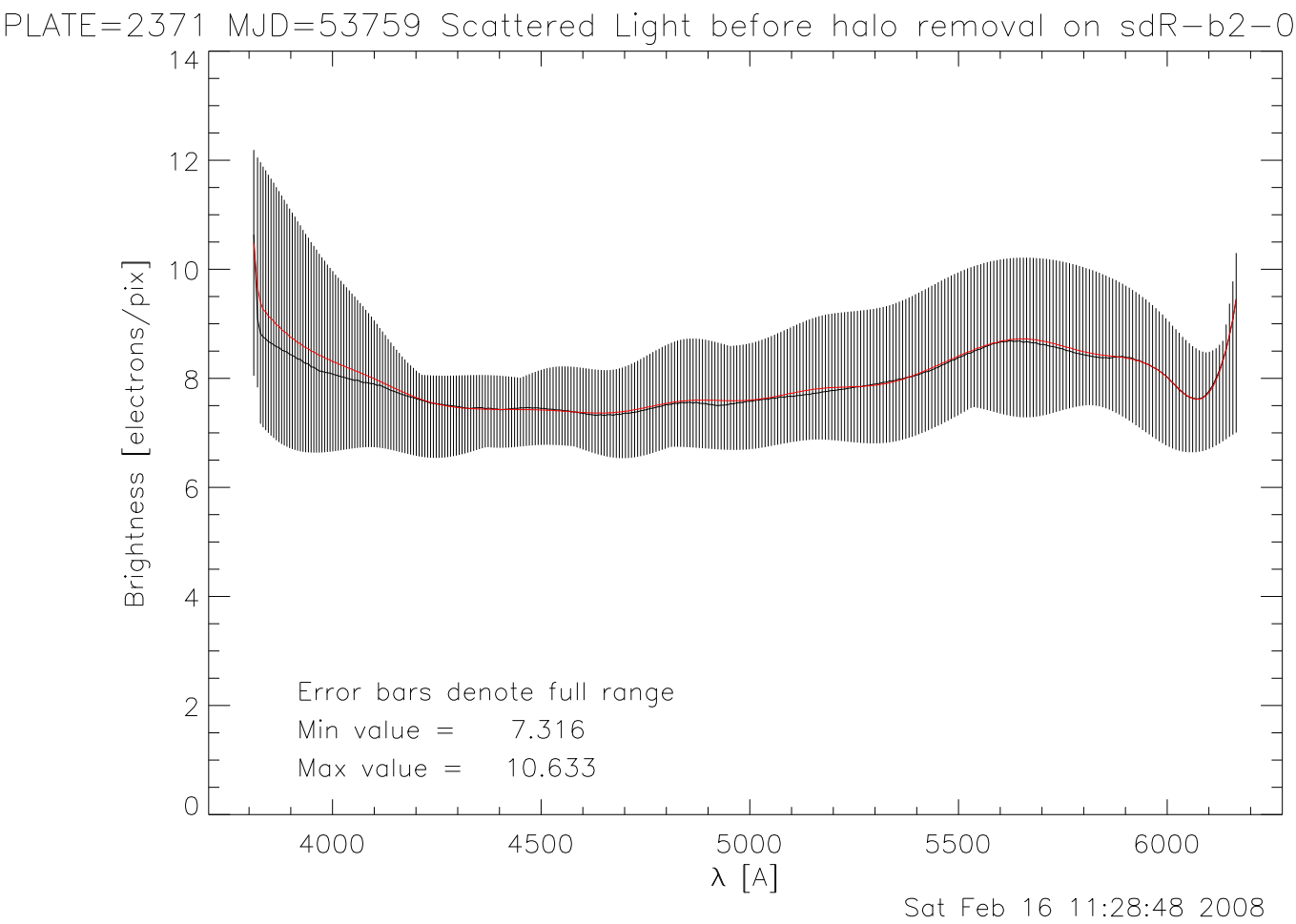

PLATE=2371 MJD=53759 flat extraction chi^2 for sdR−b2−00036690.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
0
500
1000
1500
2000

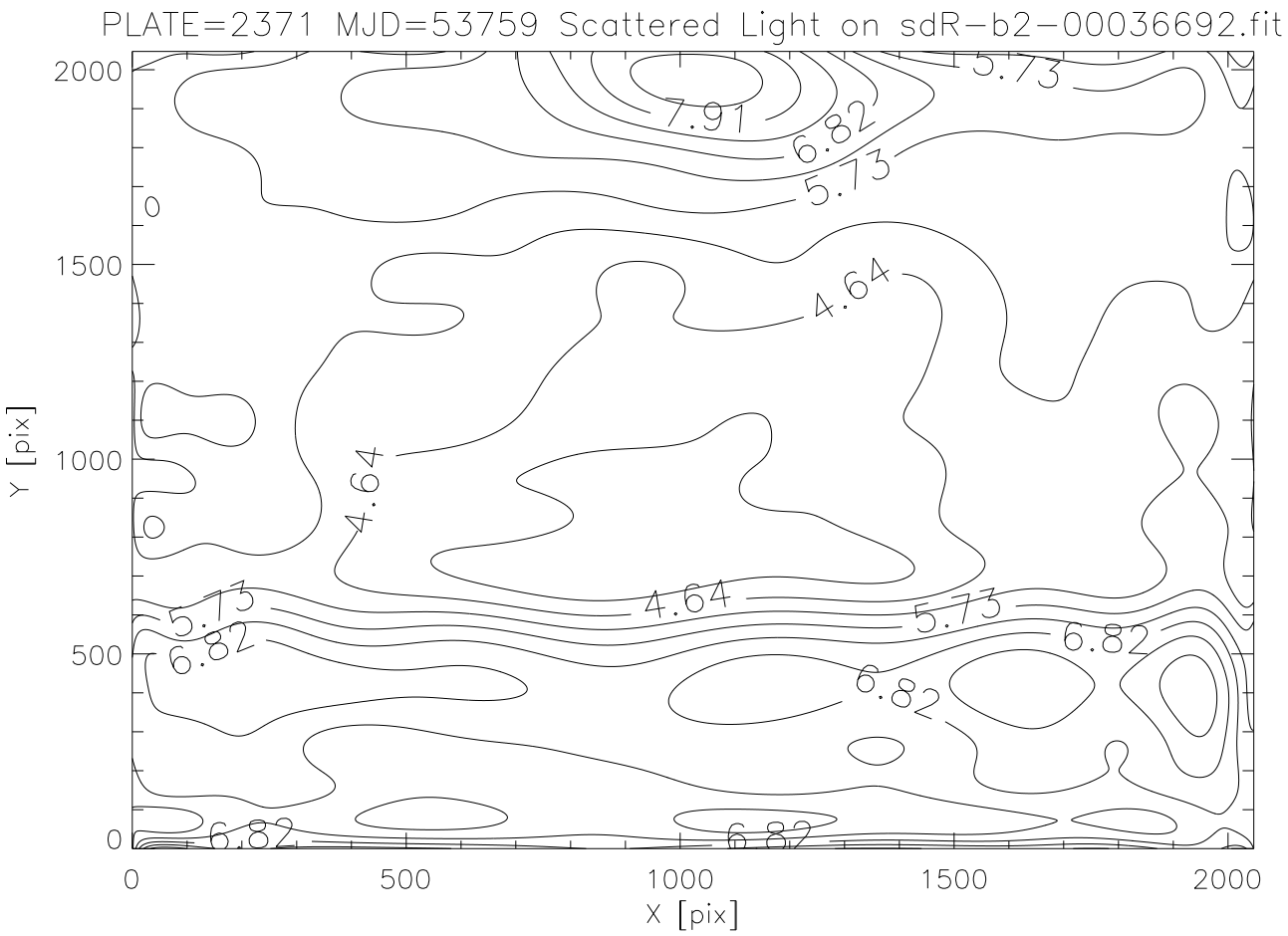

PLATE=2371 MJD=53759 Superflat sdR-b2-00036690.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

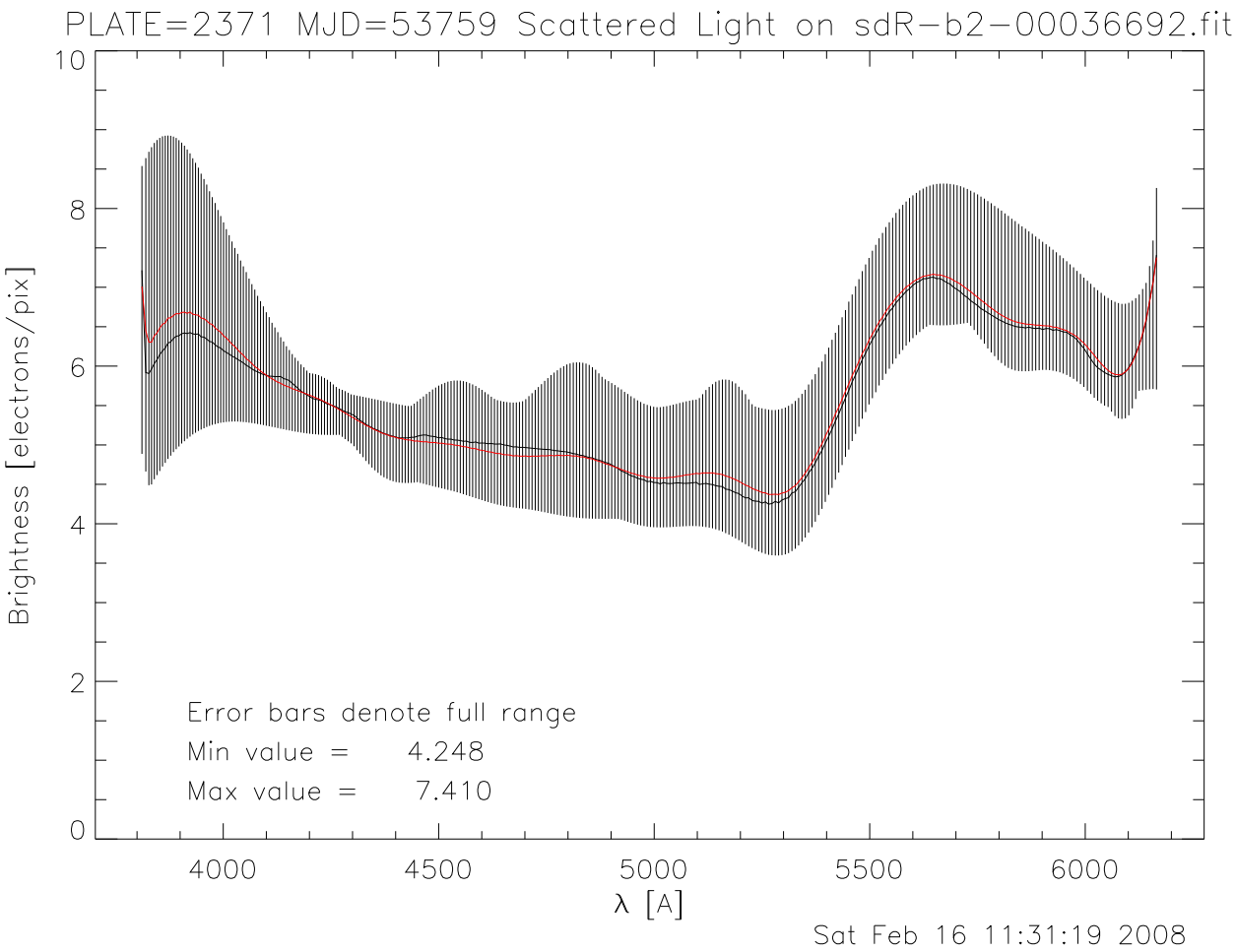

PLATE=2371 MJD=53759 Arcline Fit for sdR-b2-00036691.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 11:27:56 2008

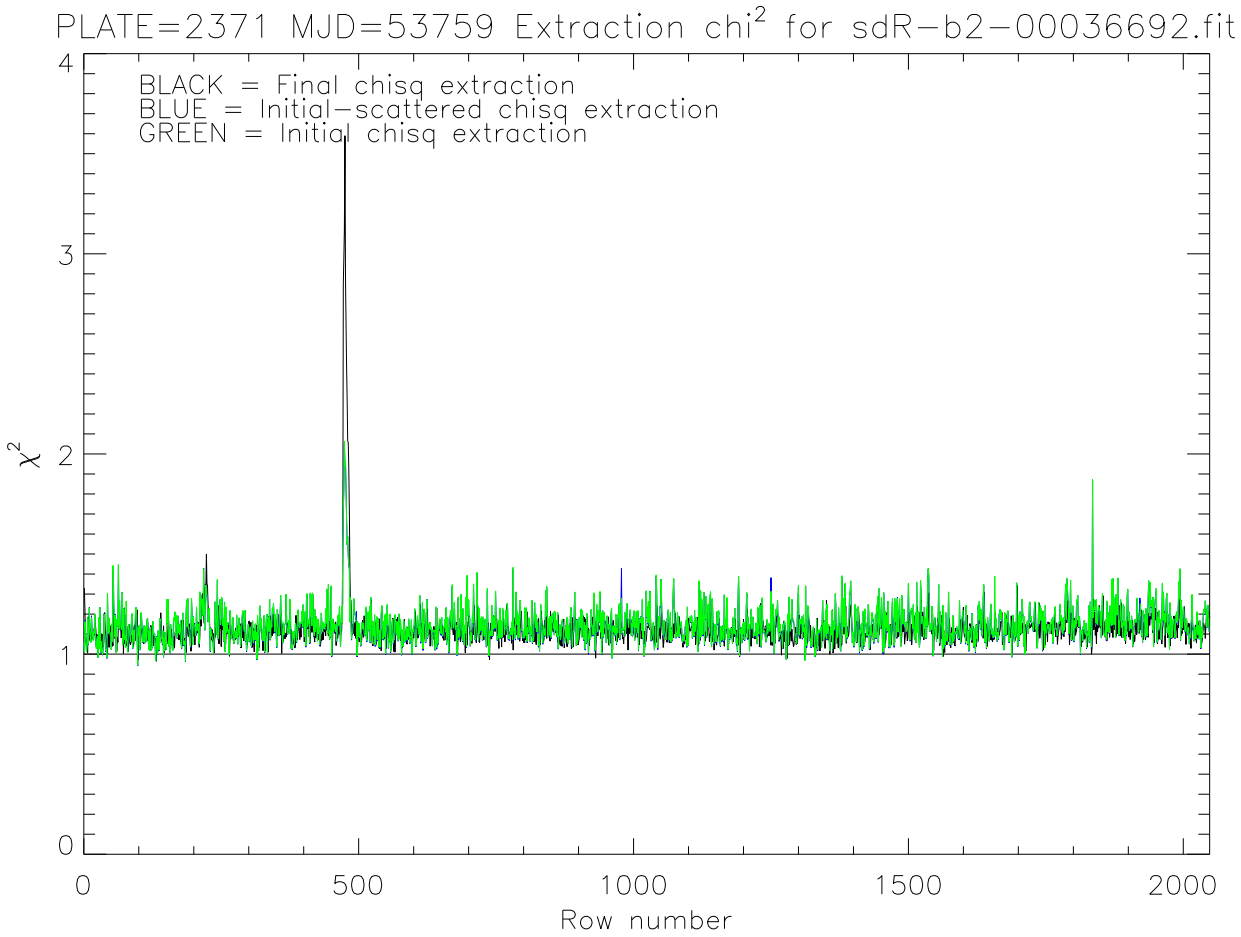

PLATE=2371 MJD=53759 Fiber−Flats for sdR−b2−00036690.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.626
Max value = 1.262
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 11:28:02 2008

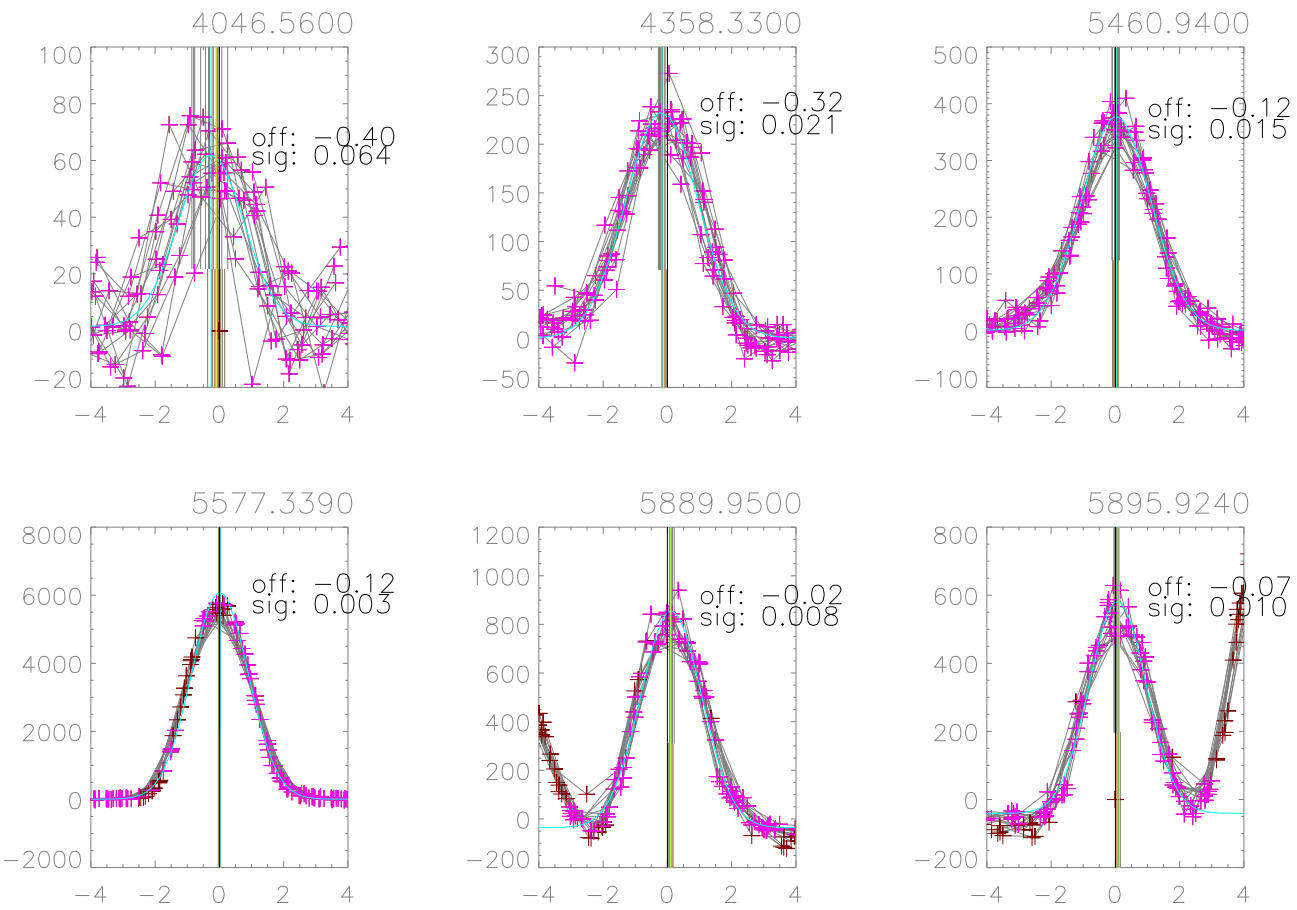

PLATE=2371 MJD=53759 Scattered Light before halo removal on sdR−b2−00036692.f
8.5
10.4
8.5
7.6
7.6
8.5
8.5
8.5
8.5
8.5
0
500
1000
1500
2000
Y [pix]
X [pix]

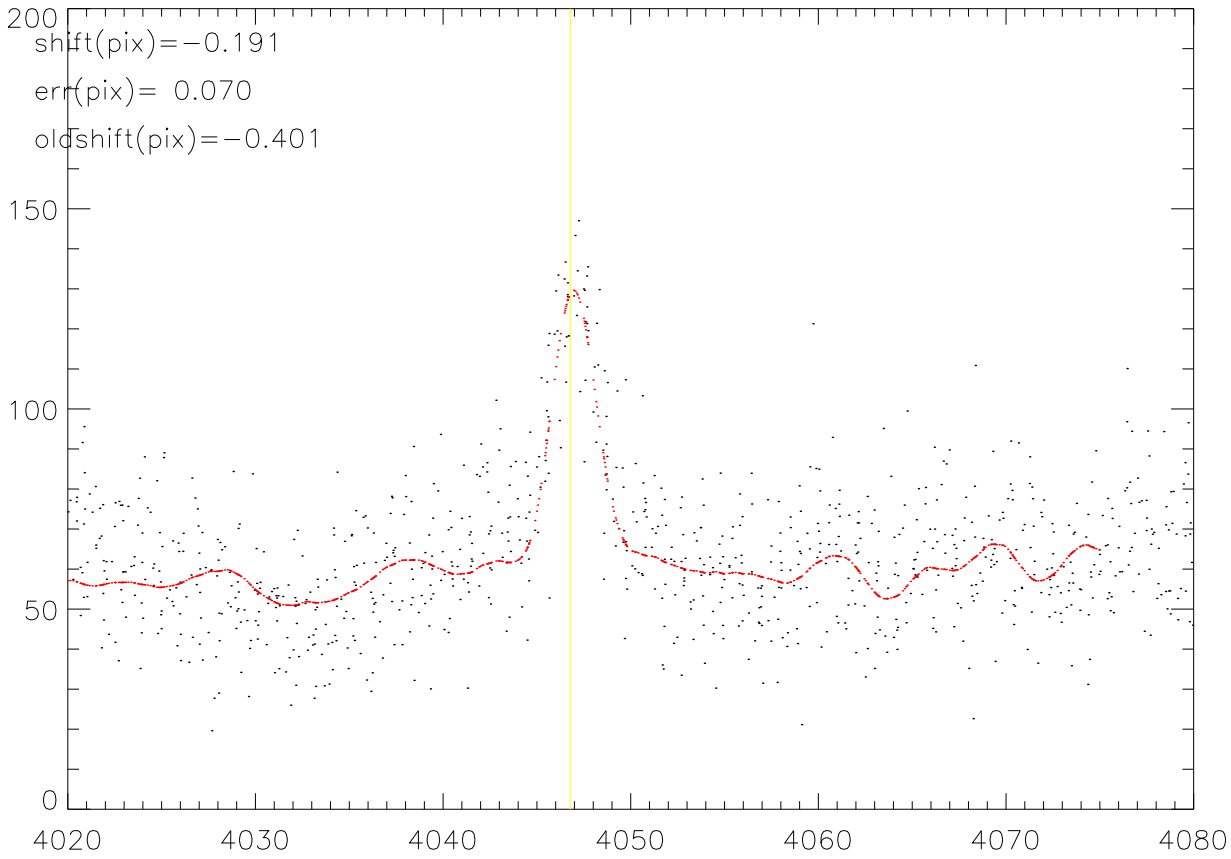

PLATE=2371 MJD=53759 Scattered Light before halo removal on sdR-b2-00036692.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.316
Max value = 10.633
Sat Feb 16 11:28:48 2008

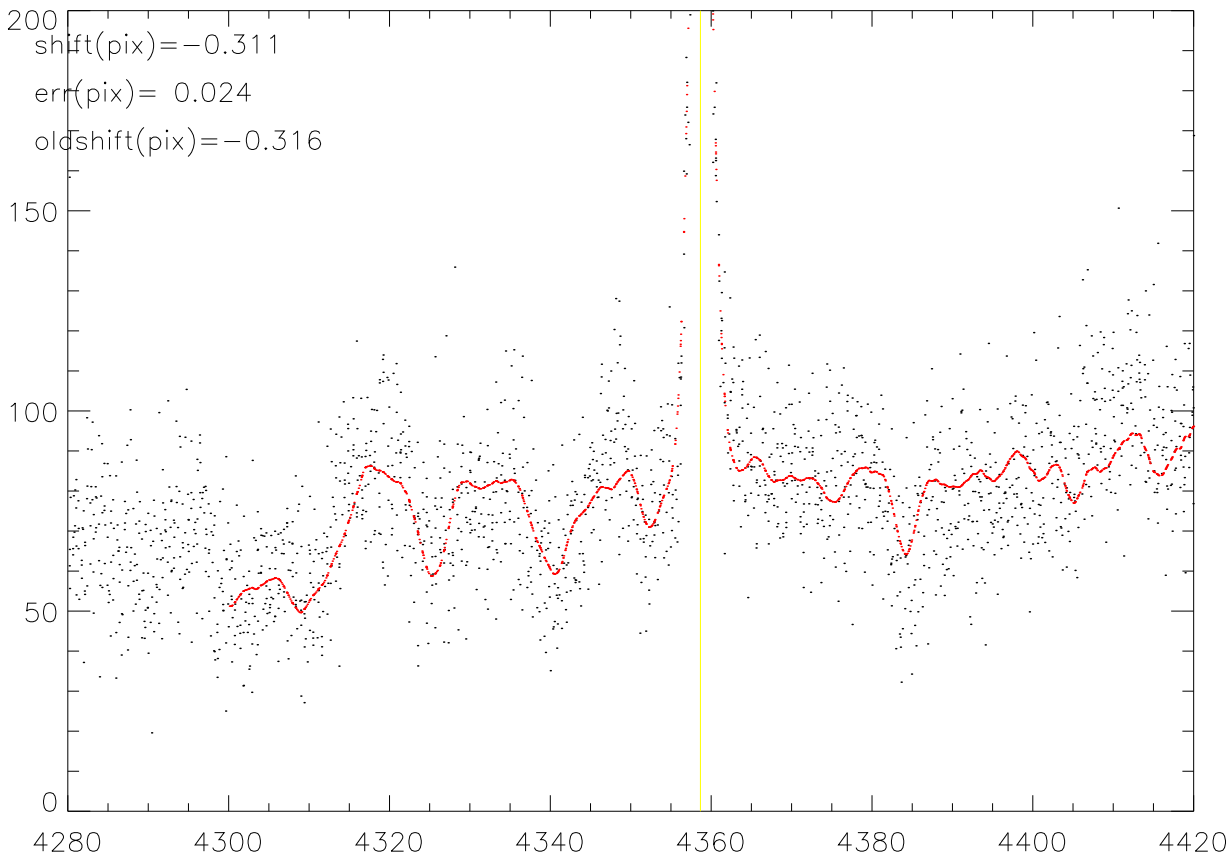

PLATE=2371 MJD=53759 Scattered Light on sdR-b2-00036692.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
7.91
6.82
5.73
4.64
0

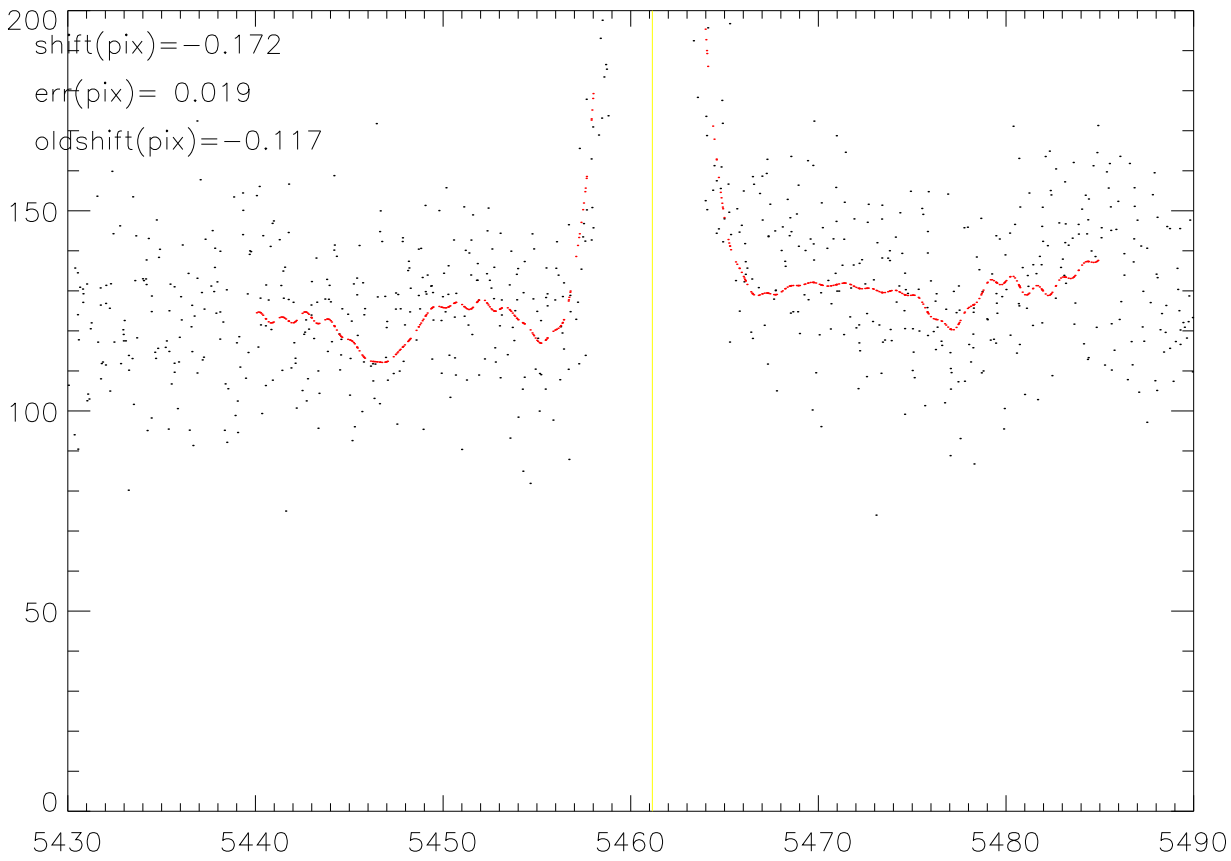

PLATE=2371 MJD=53759 Scattered Light on sdR-b2-00036692.fit
Brightness [electrons/pix]
10
8
6
4
2
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 4.248
Max value = 7.410
Sat Feb 16 11:31:19 2008

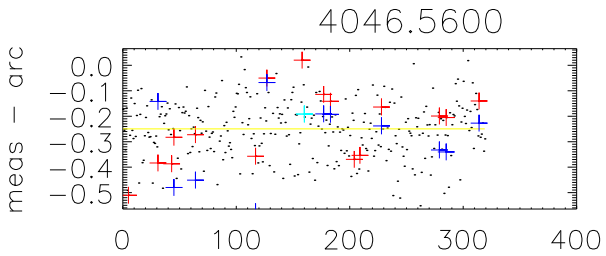

PLATE=2371 MJD=53759 Extraction chi^2 for sdR-b2-00036692.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

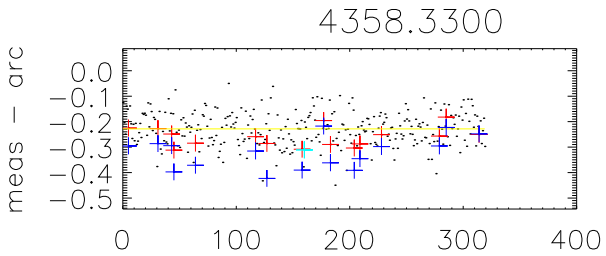

4046.5600
off: −0.40
sig: 0.064
4358.3300
off: −0.32
sig: 0.021
5460.9400
off: −0.12
sig: 0.015
5577.3390
off: −0.12
sig: 0.003
5889.9500
off: −0.02
sig: 0.008
5895.9240
off: −0.07
sig: 0.010

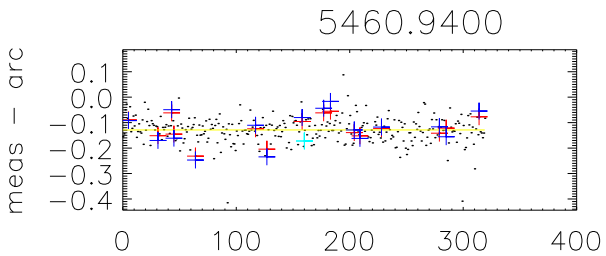

shift(pix)=−0.191
err(pix)= 0.070
oldshift(pix)=−0.401
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

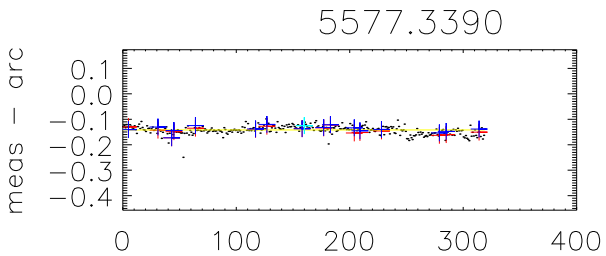

shift(pix)=−0.311
err(pix)= 0.024
oldshift(pix)=−0.316
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

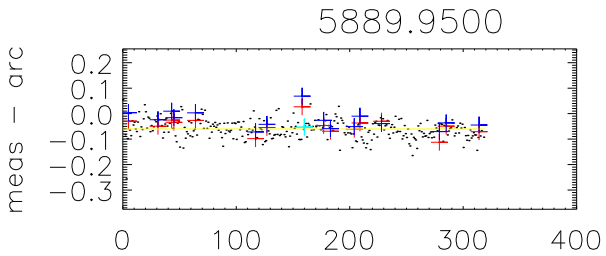

shift(pix)=−0.172
err(pix)= 0.019
oldshift(pix)=−0.117
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

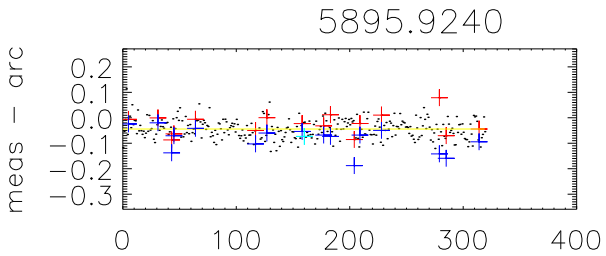

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

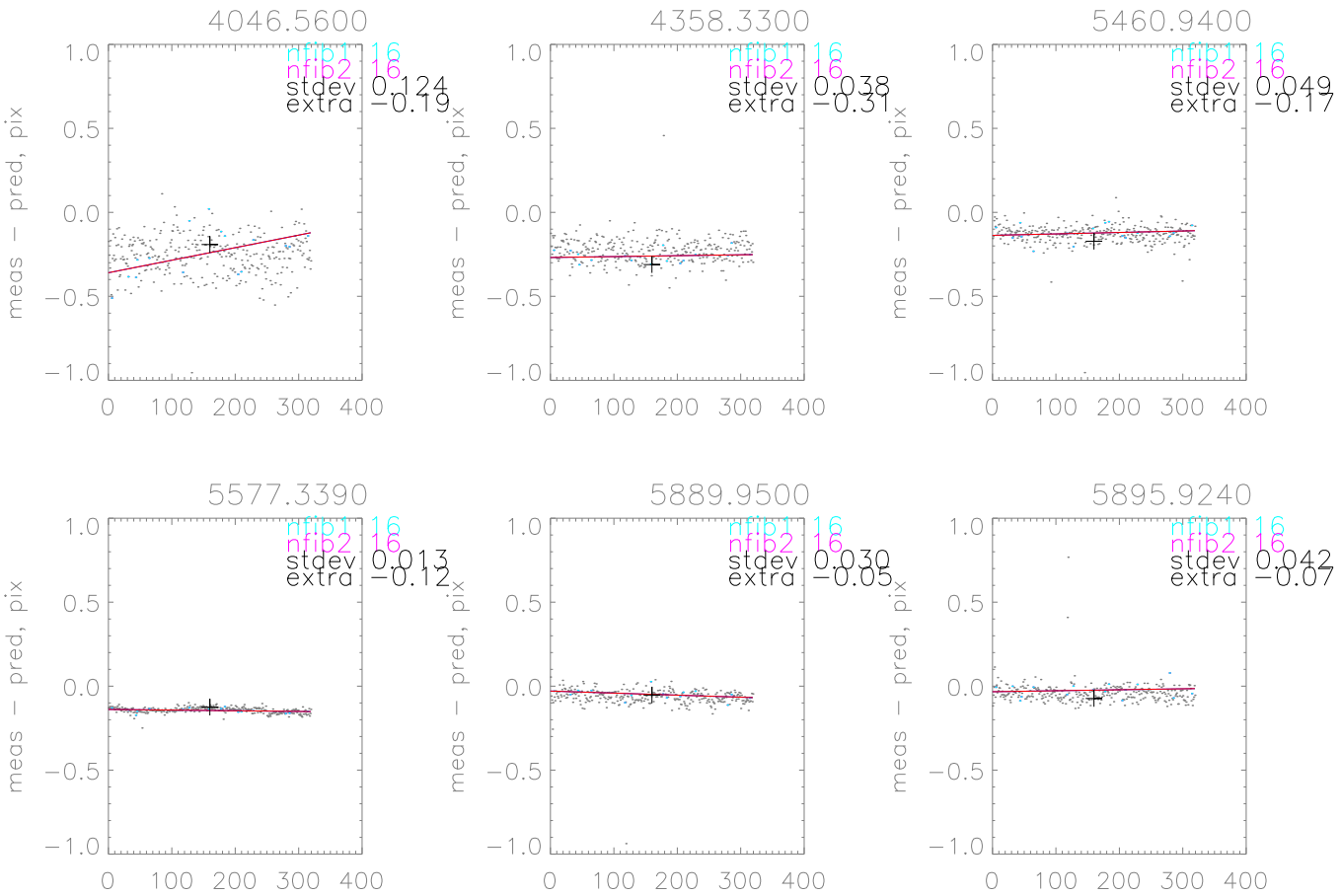

4358.3300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

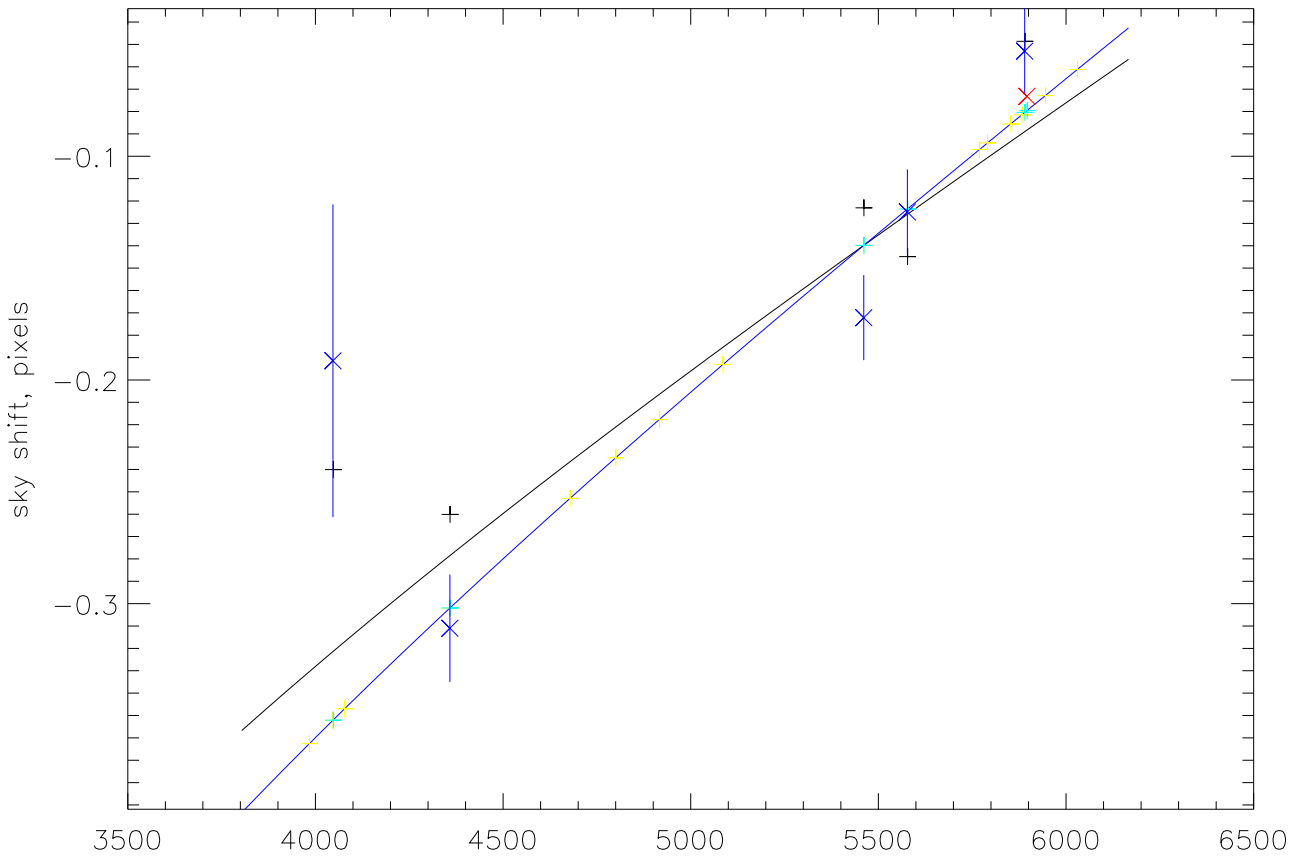

5460.9400
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

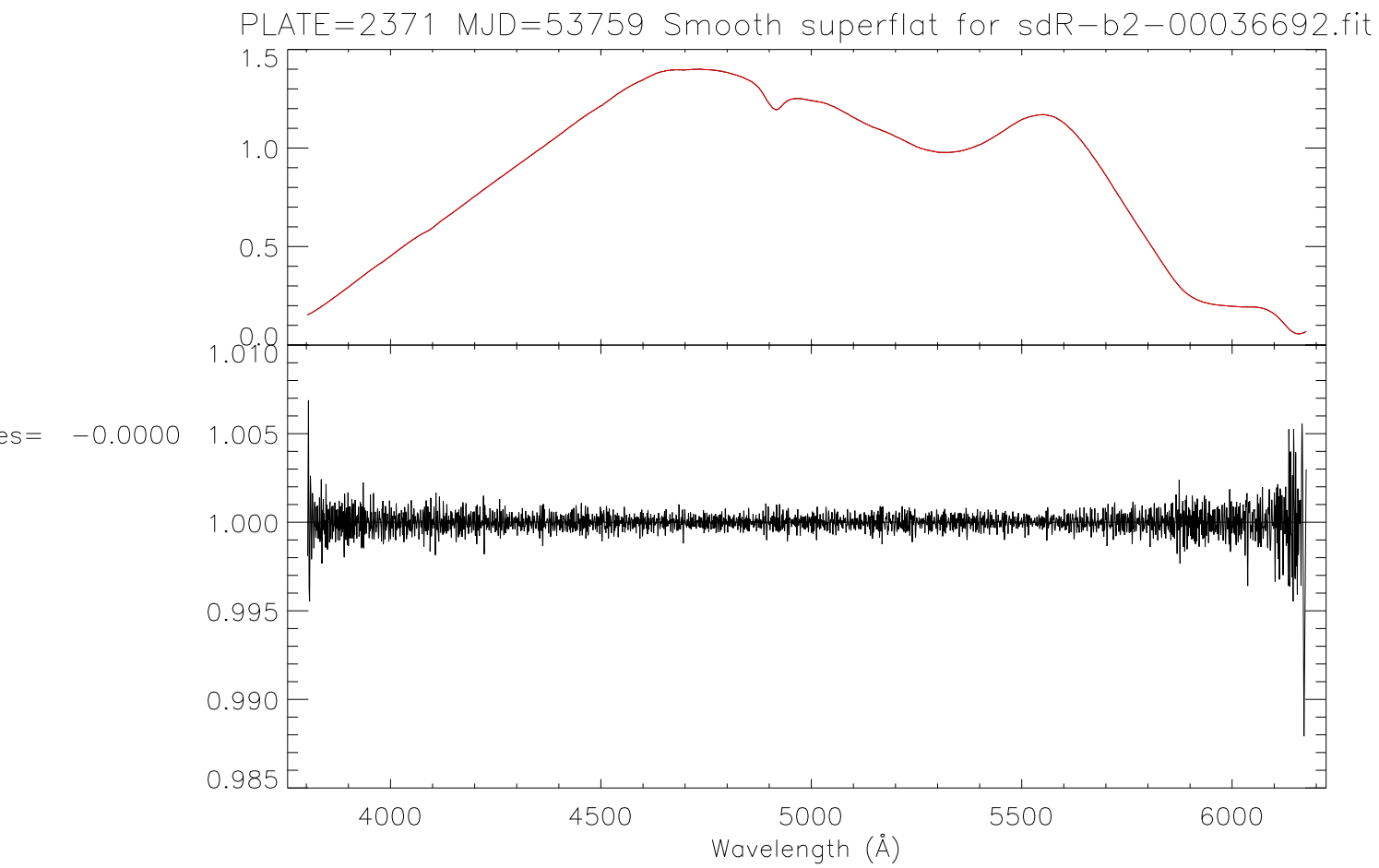

5577.3390
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

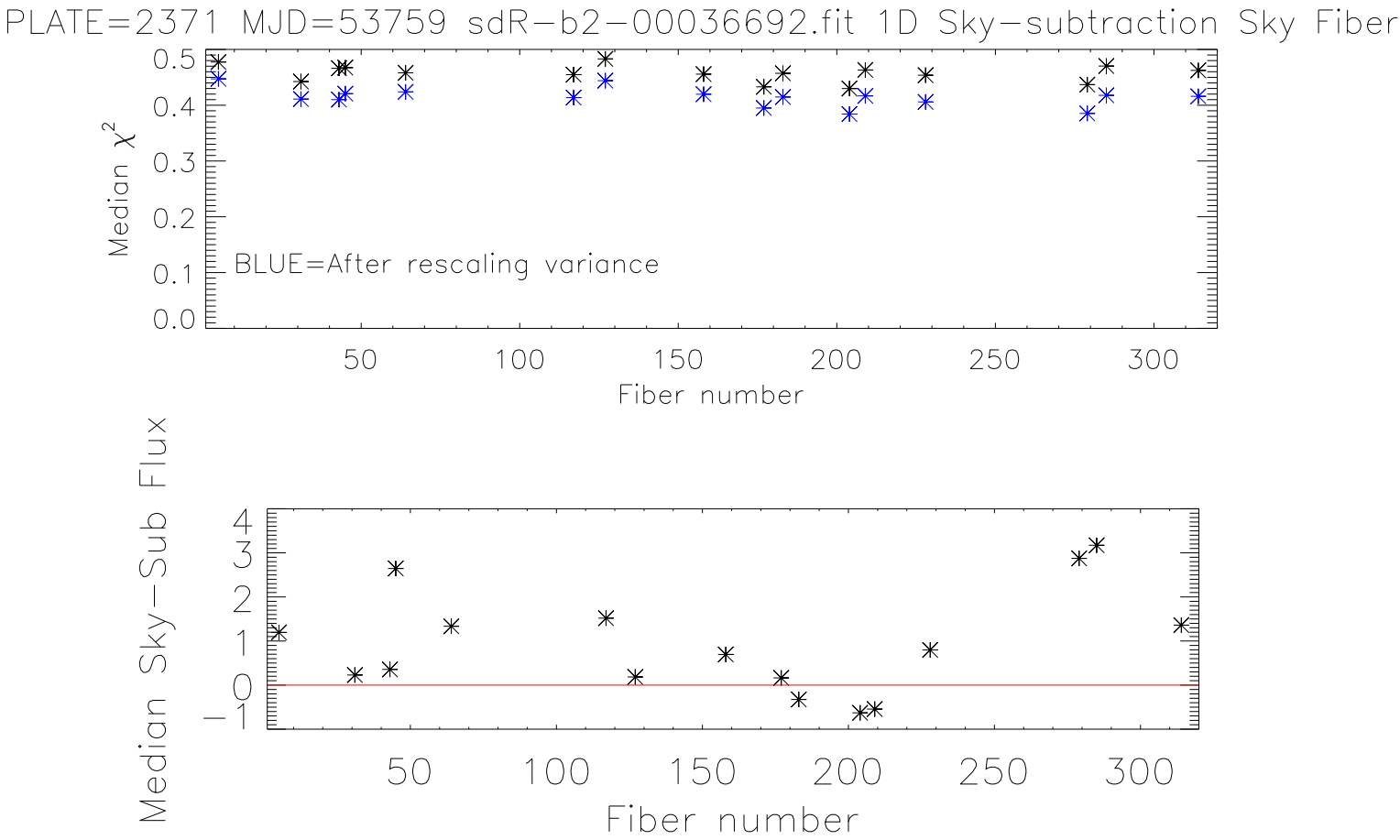

5889.9500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

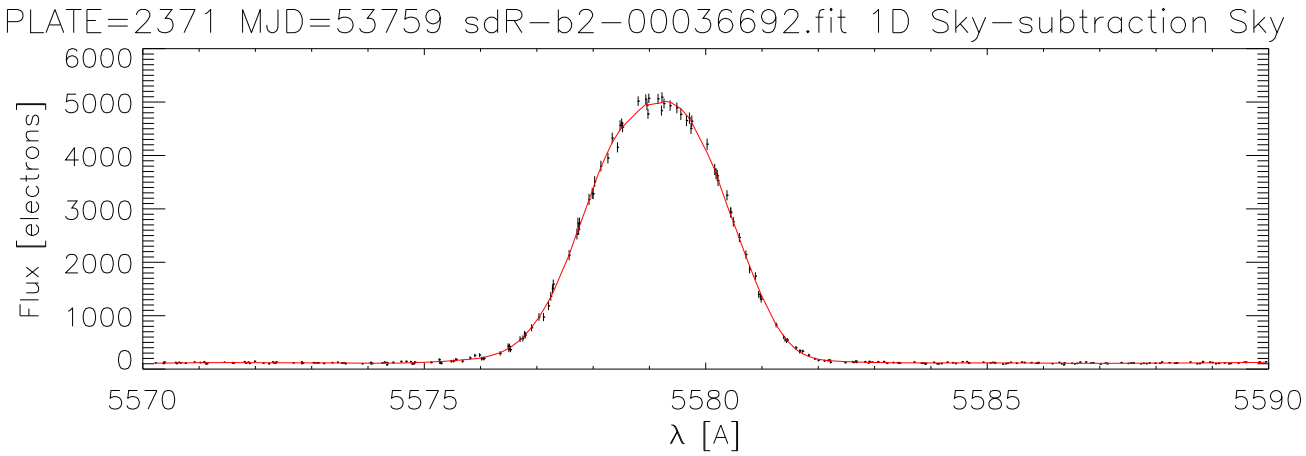

5895.9240
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

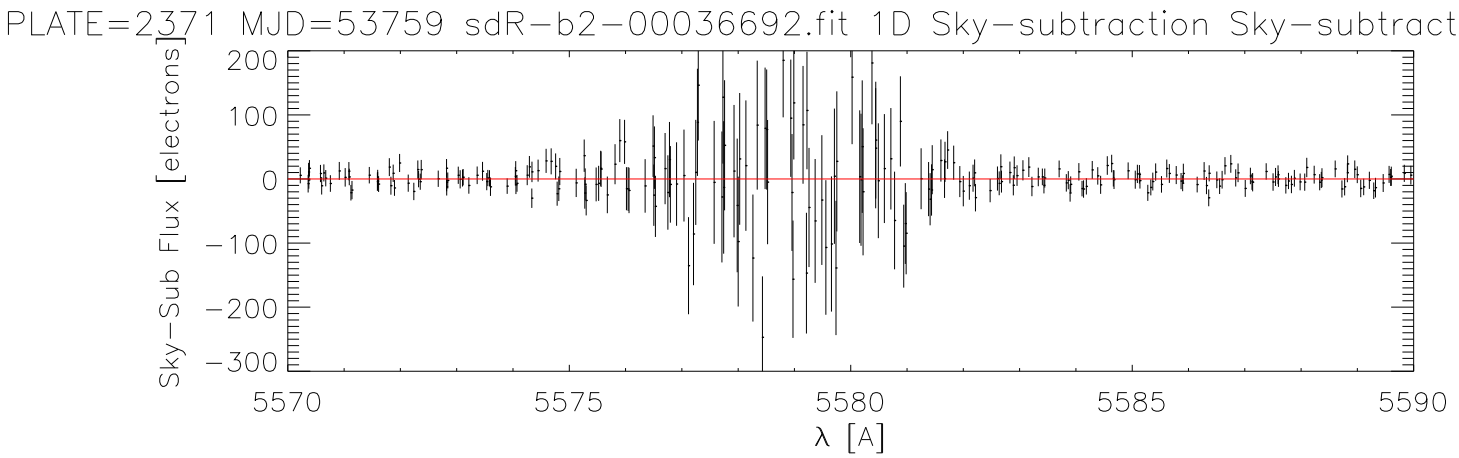

4046.5600
nfib1 16
nfib2 16
stdev 0.124
extra −0.19
4358.3300
nfib1 16
nfib2 16
stdev 0.038
extra −0.31
5460.9400
nfib1 16
nfib2 16
stdev 0.049
extra −0.17
5577.3390
nfib1 16
nfib2 16
stdev 0.013
extra −0.12
5889.9500
nfib1 16
nfib2 16
stdev 0.030
extra −0.05
5895.9240
nfib1 16
nfib2 16
stdev 0.042
extra −0.07
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

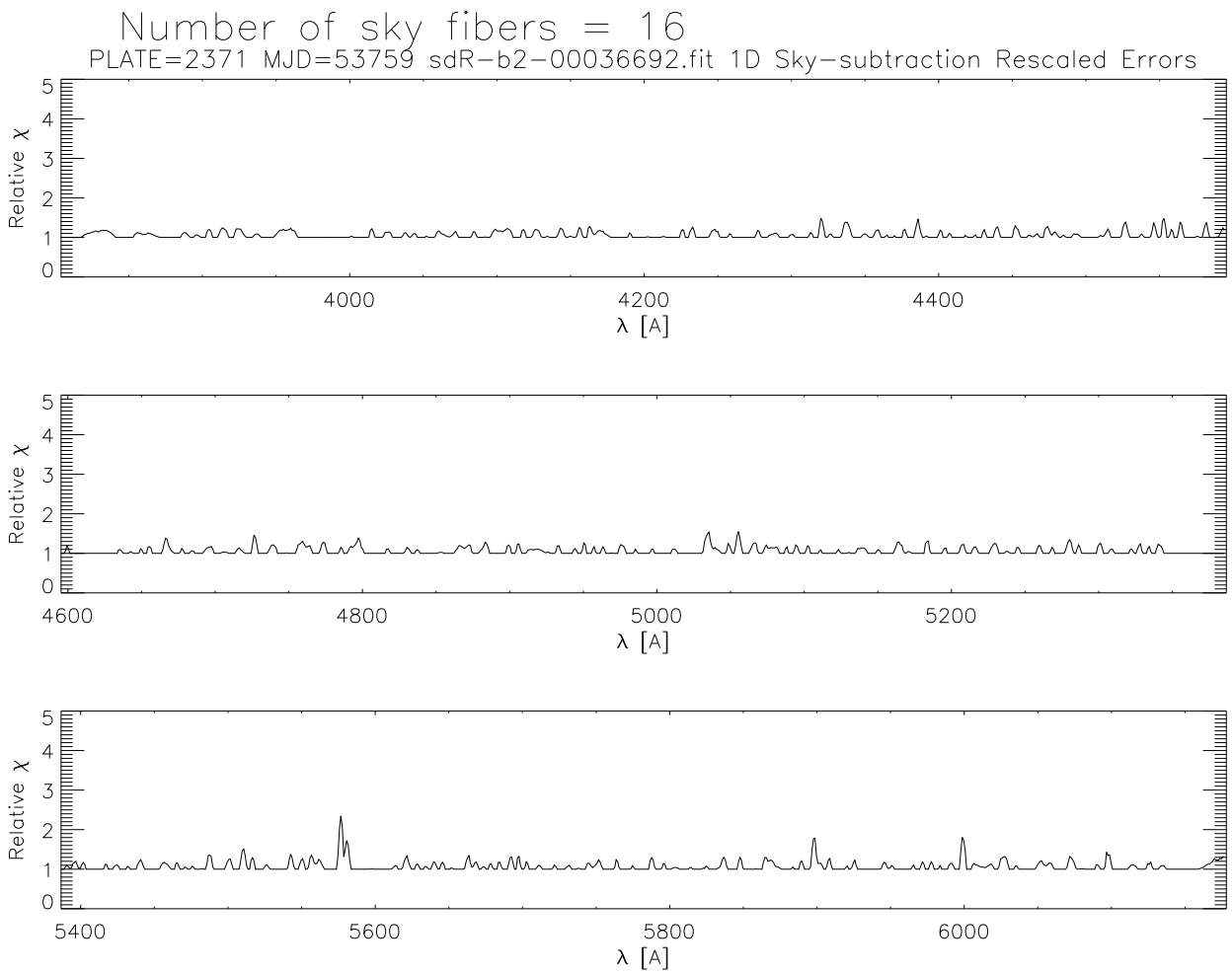

sky shift, pixels
−0.1
−0.2
−0.3
3500
4000
4500
5000
5500
6000
6500

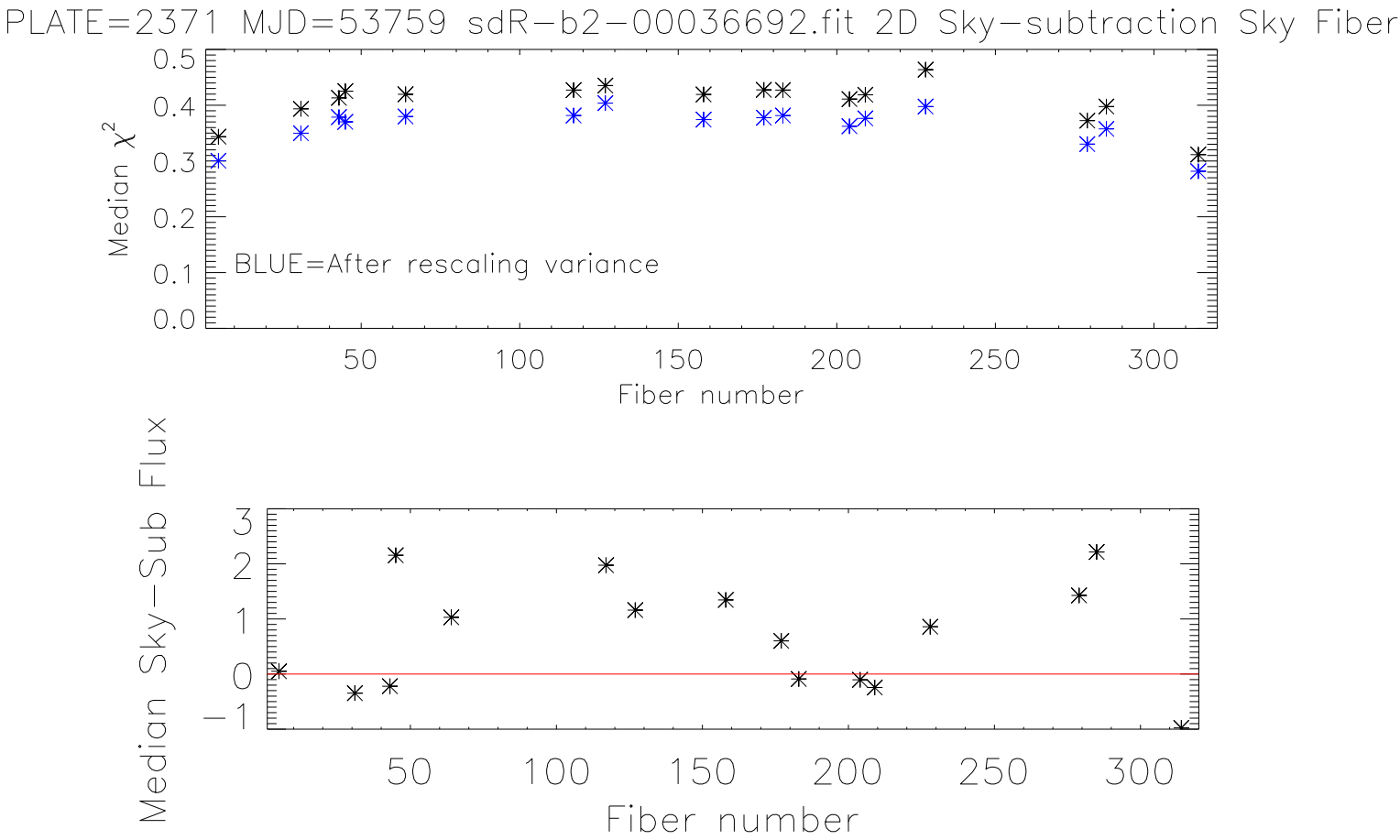

PLATE=2371 MJD=53759 Smooth superflat for sdR-b2-00036692.fit
1.5
1.0
0.5
0.0
es= -0.0000
1.010
1.005
1.000
0.995
0.990
0.985
4000
4500
5000
5500
6000
Wavelength (Å)

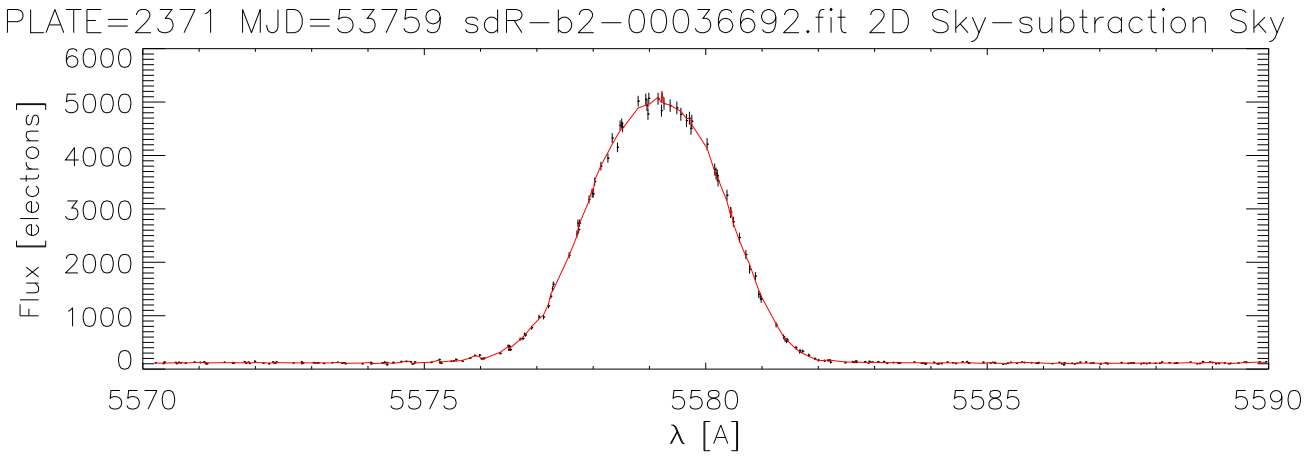

PLATE=2371 MJD=53759 sdR-b2-00036692.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
−1
0
1
2
3
4
50
100
150
200
250
300
Fiber number

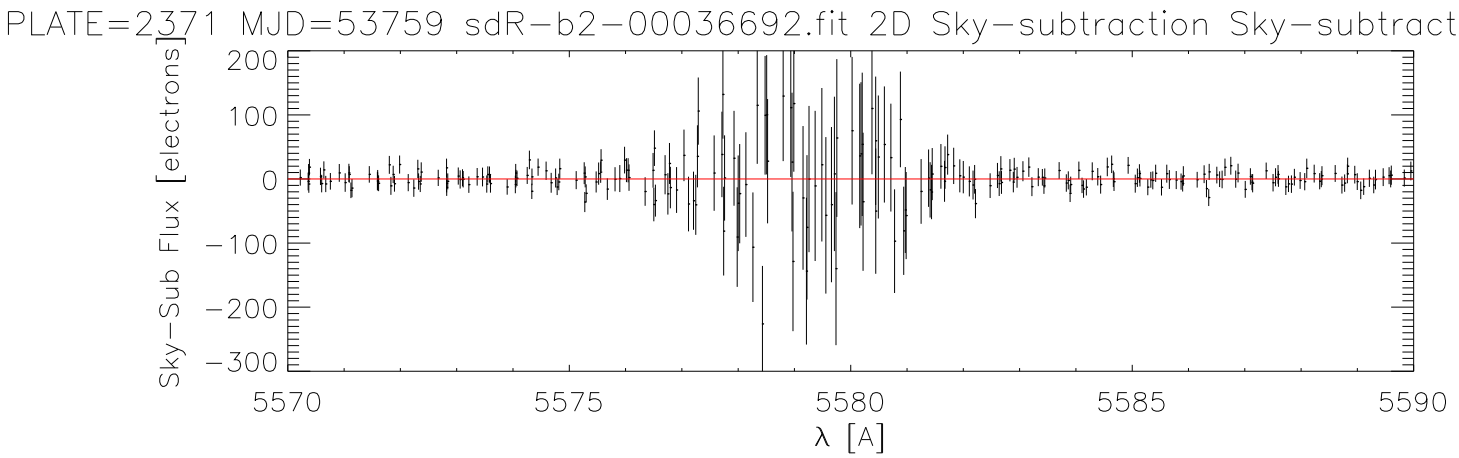

PLATE=2371 MJD=53759 sdR-b2-00036692.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

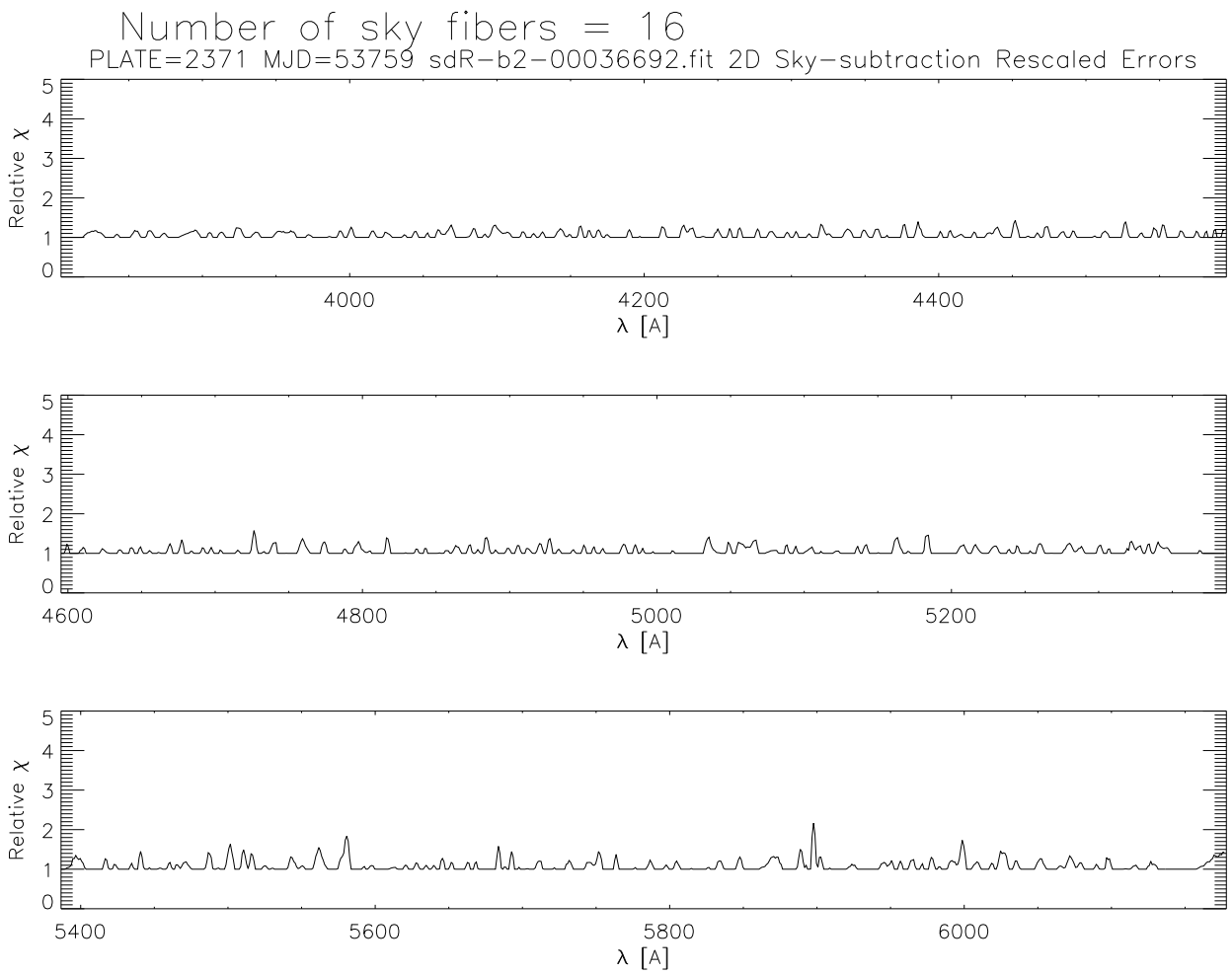

PLATE=2371 MJD=53759 sdR-b2-00036692.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

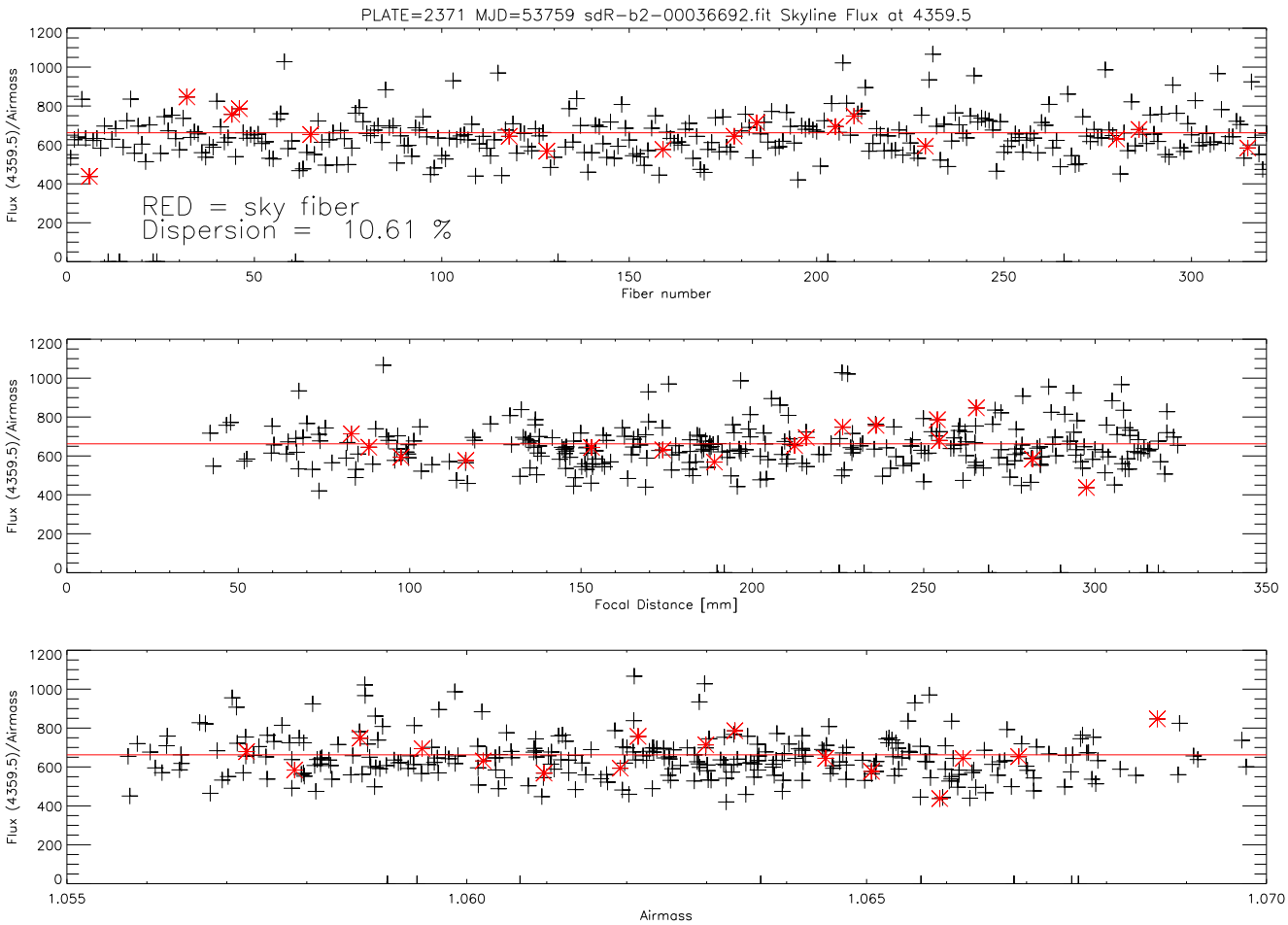

Number of sky fibers = 16
PLATE=2371 MJD=53759 sdR-b2-00036692.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

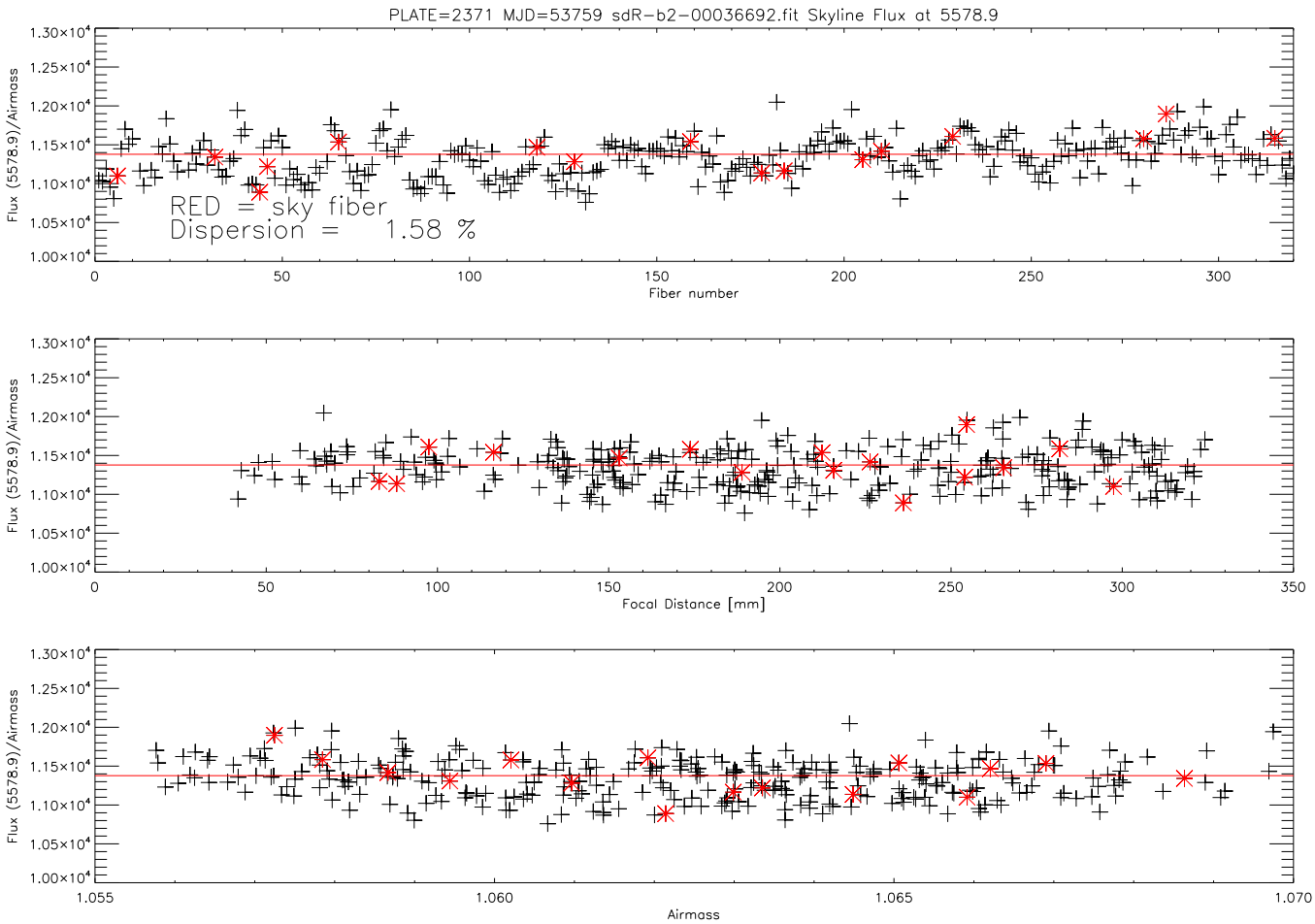

PLATE=2371 MJD=53759 sdR-b2-00036692.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

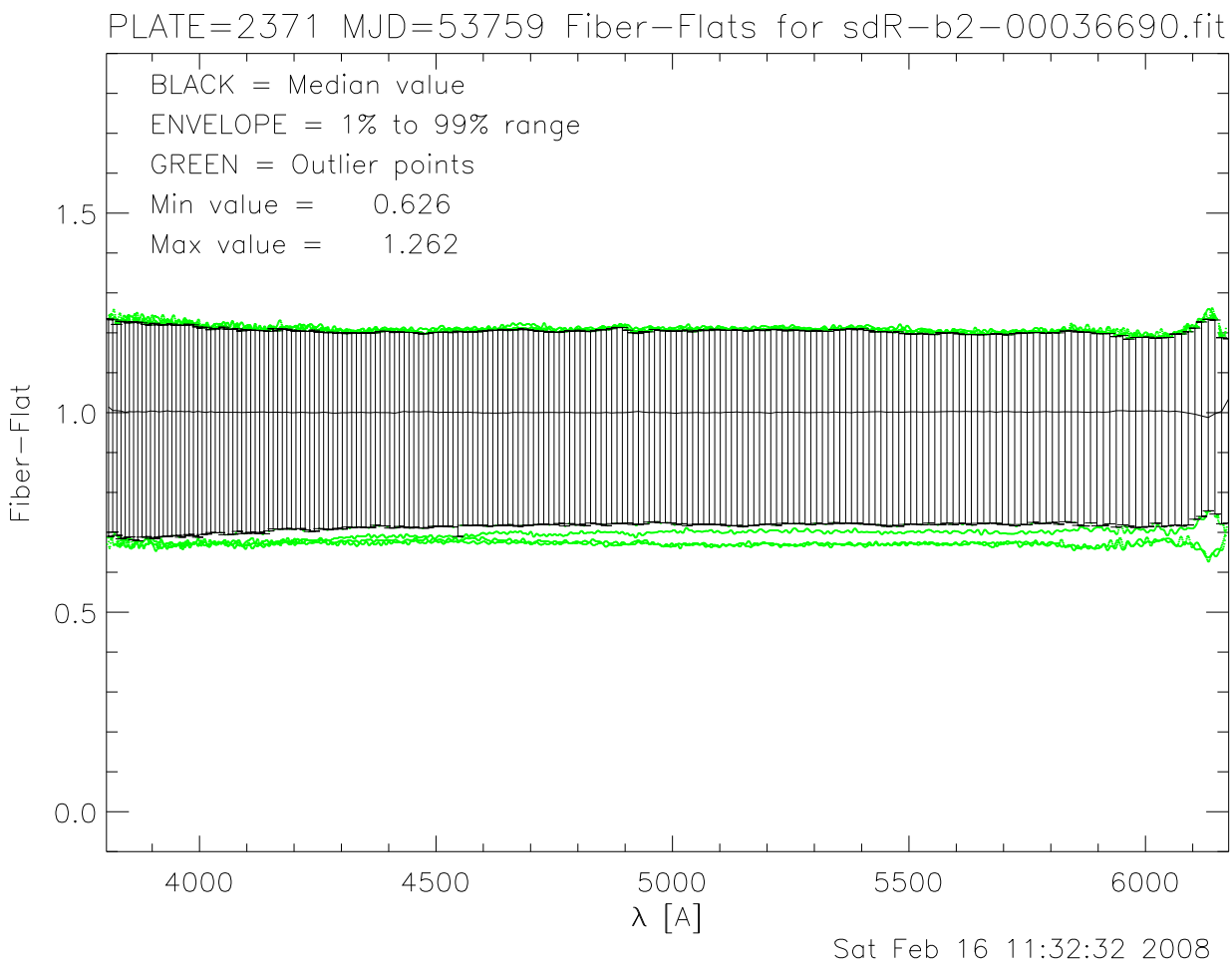

PLATE=2371 MJD=53759 sdR-b2-00036692.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

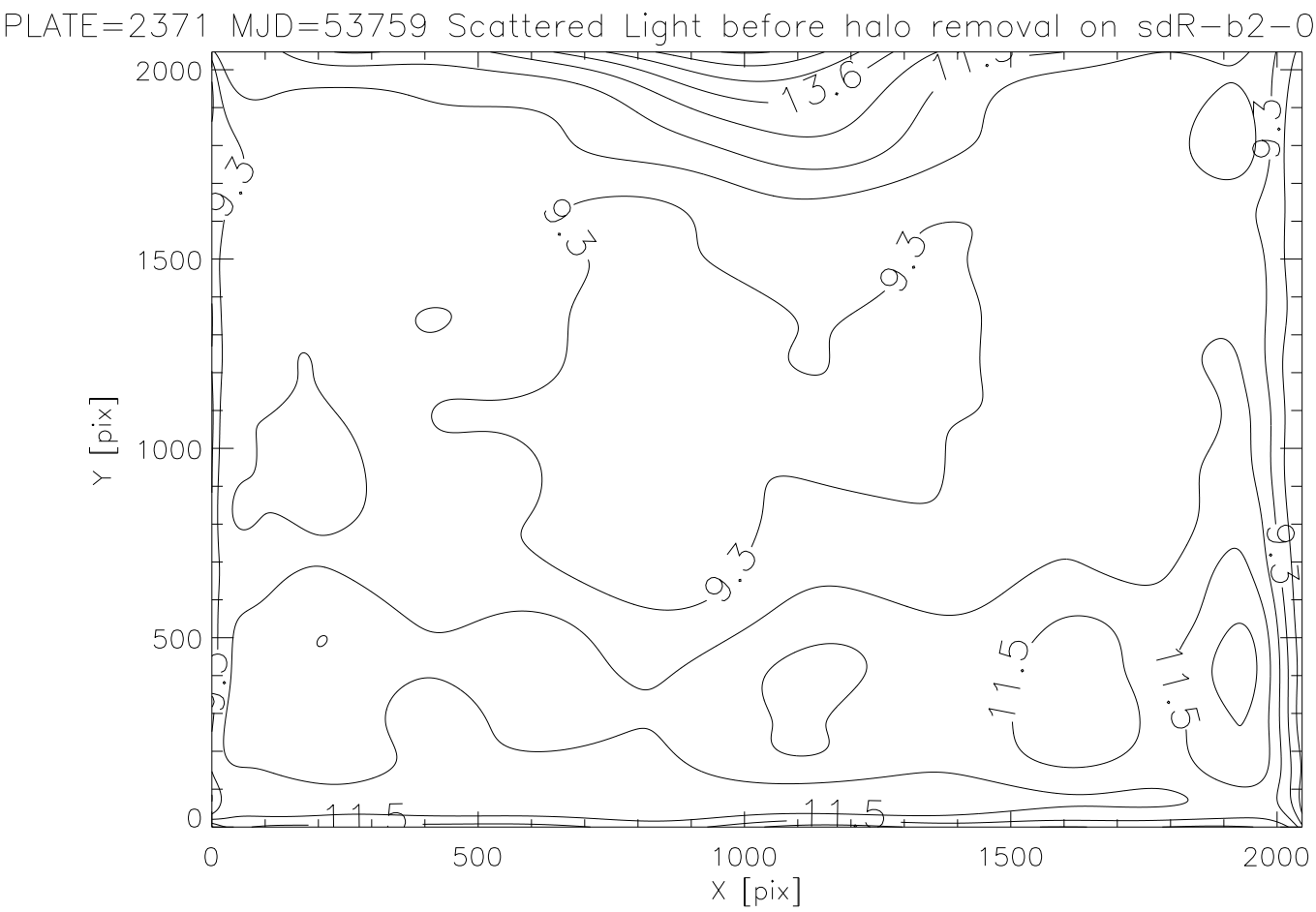

PLATE=2371 MJD=53759 sdR-b2-00036692.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

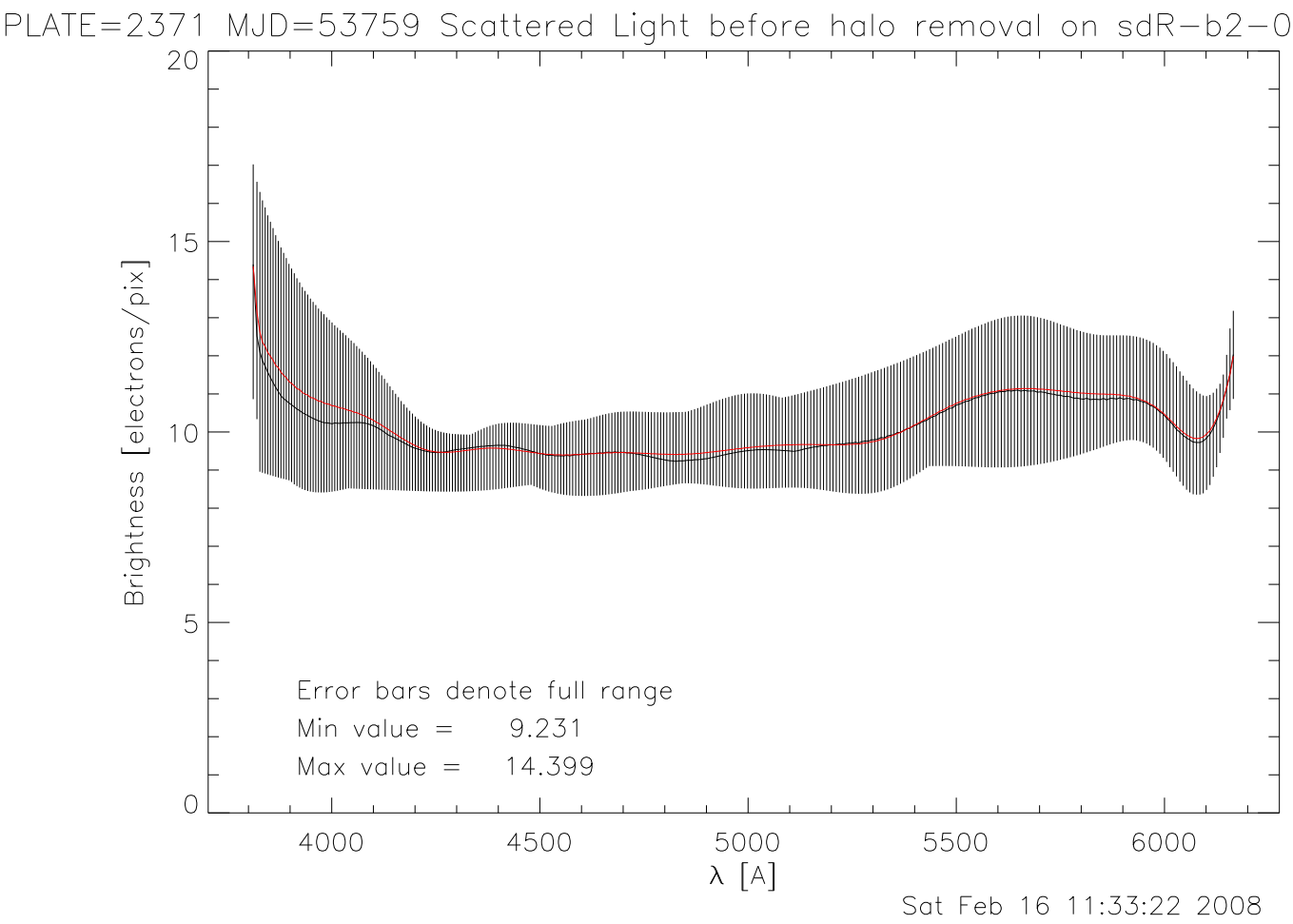

Number of sky fibers = 16
PLATE=2371 MJD=53759 sdR-b2-00036692.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

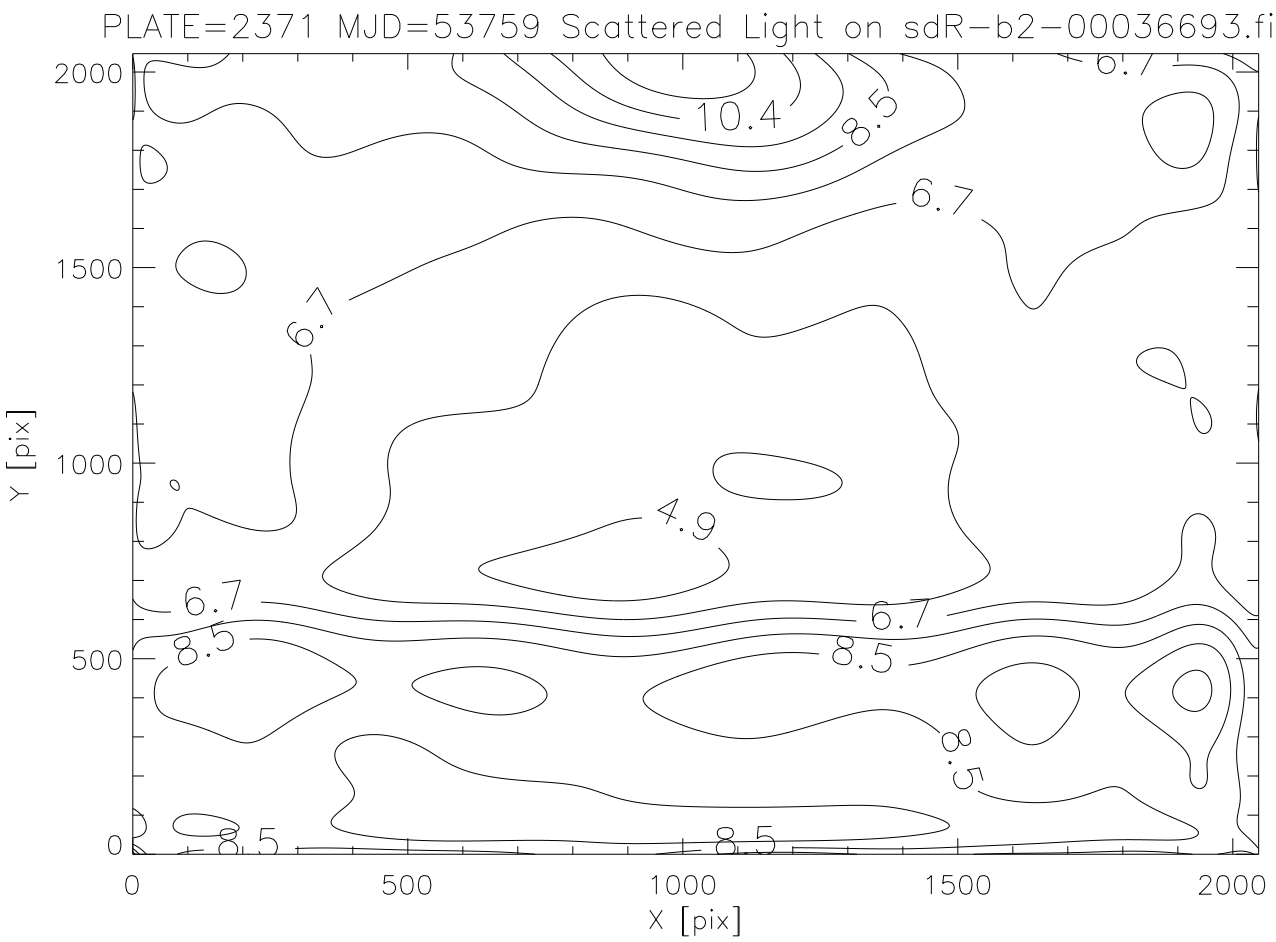

PLATE=2371 MJD=53759 sdR-b2-00036692.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 10.61 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

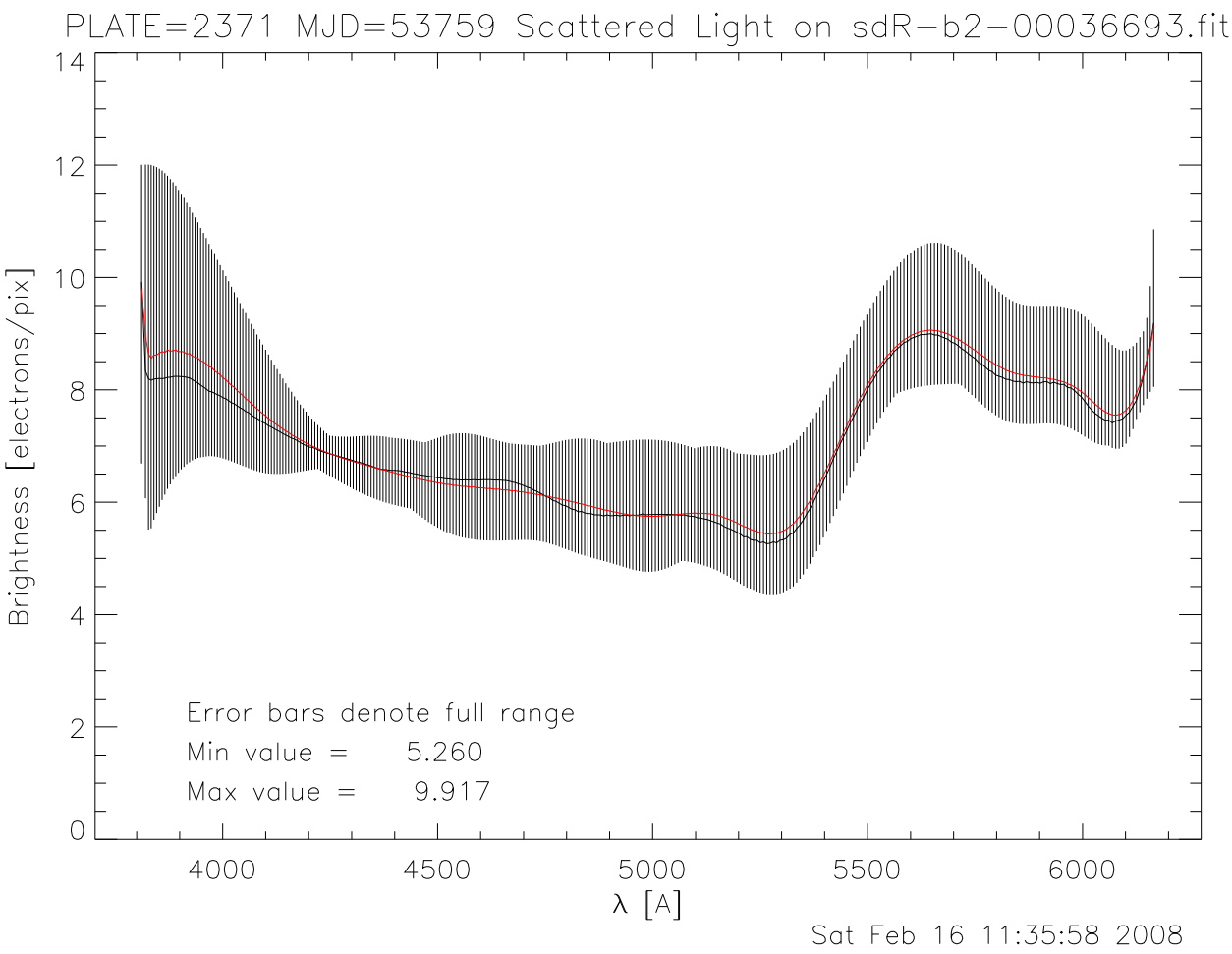

PLATE=2371 MJD=53759 sdR-b2-00036692.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.58 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

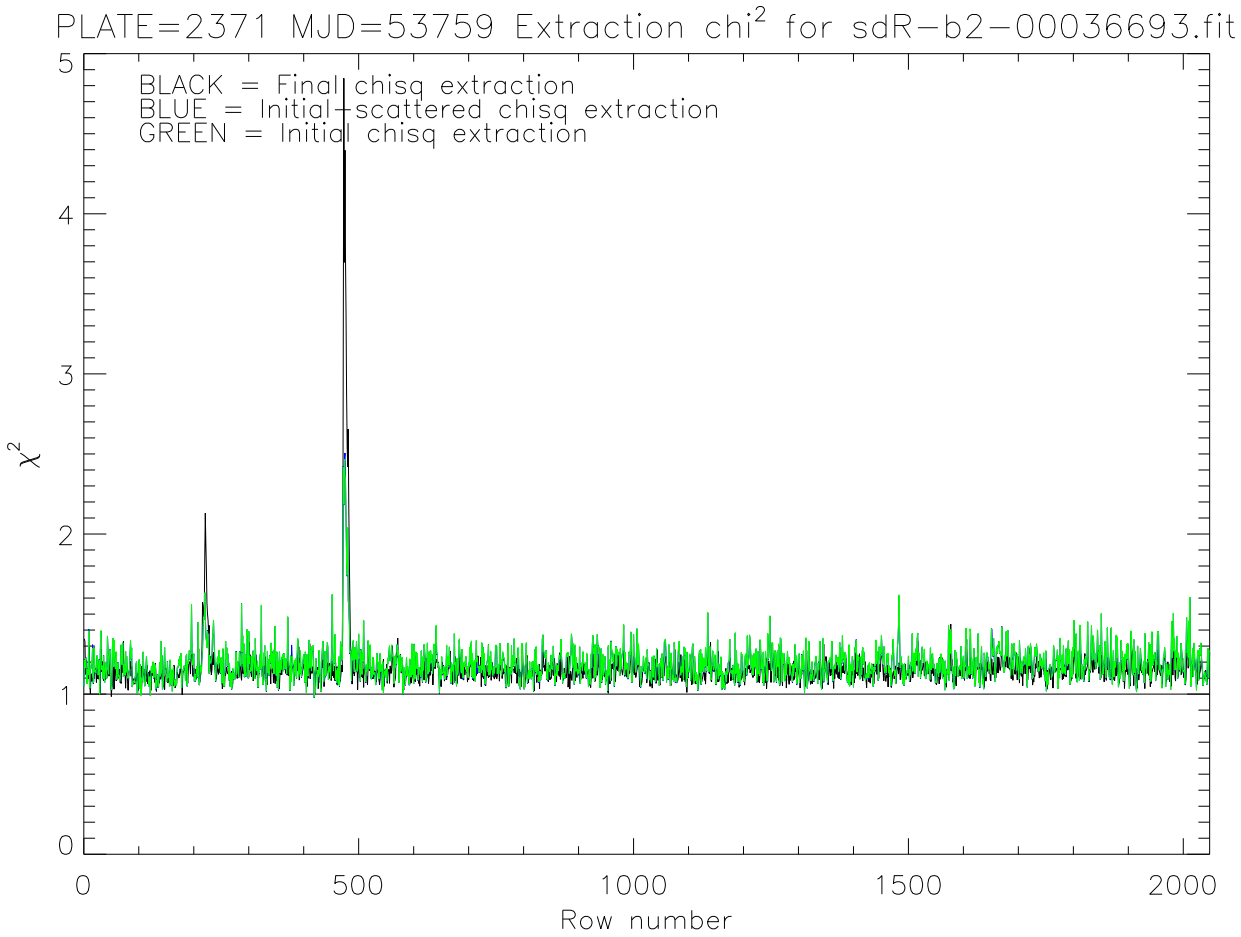

PLATE=2371 MJD=53759 Fiber-Flats for sdR-b2-00036690.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.626
Max value = 1.262
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 11:32:32 2008

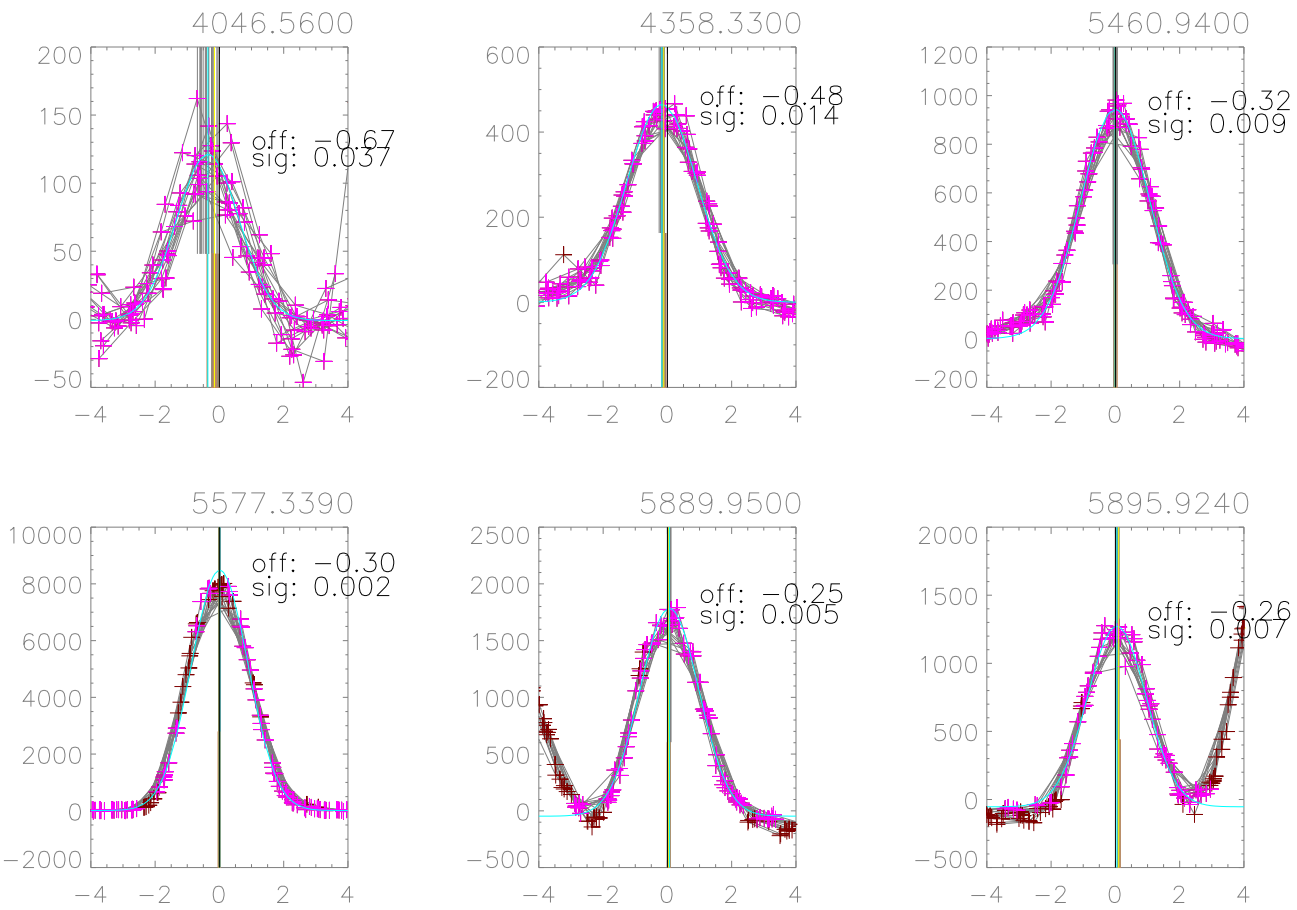

PLATE=2371 MJD=53759 Scattered Light before halo removal on sdR−b2−00036693.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
13.6
9.3
11.5

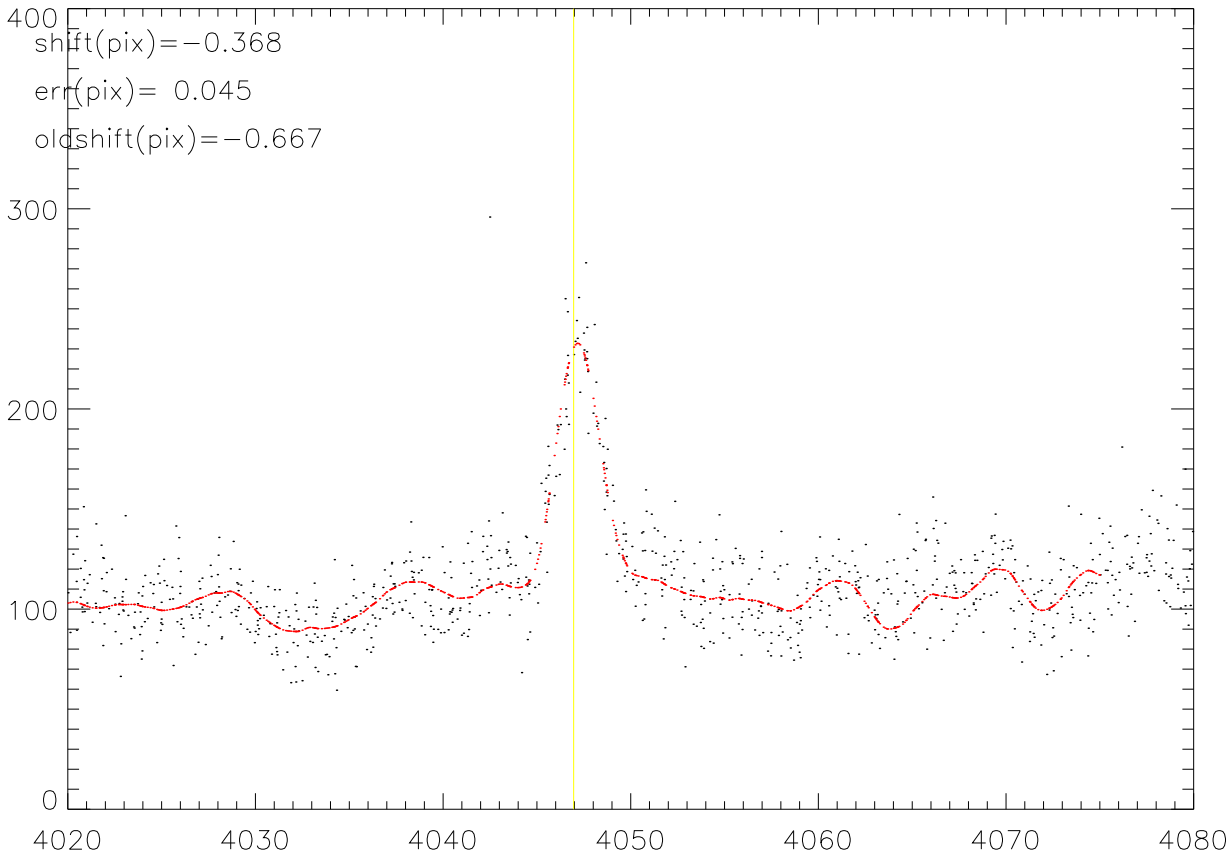

PLATE=2371 MJD=53759 Scattered Light before halo removal on sdR−b2−00036693.f
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 9.231
Max value = 14.399
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 11:33:22 2008

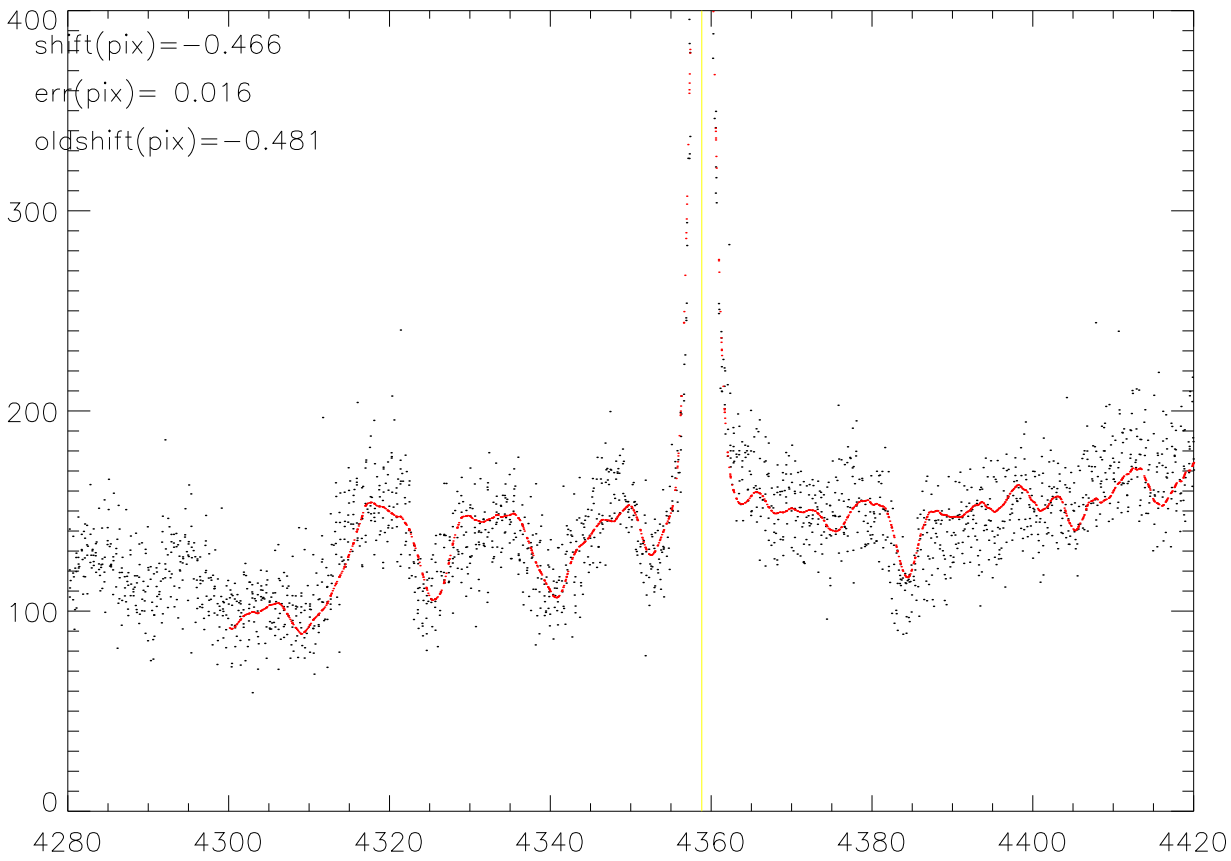

PLATE=2371 MJD=53759 Scattered Light on sdR-b2-00036693.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
10.4
8.5
6.7
4.9

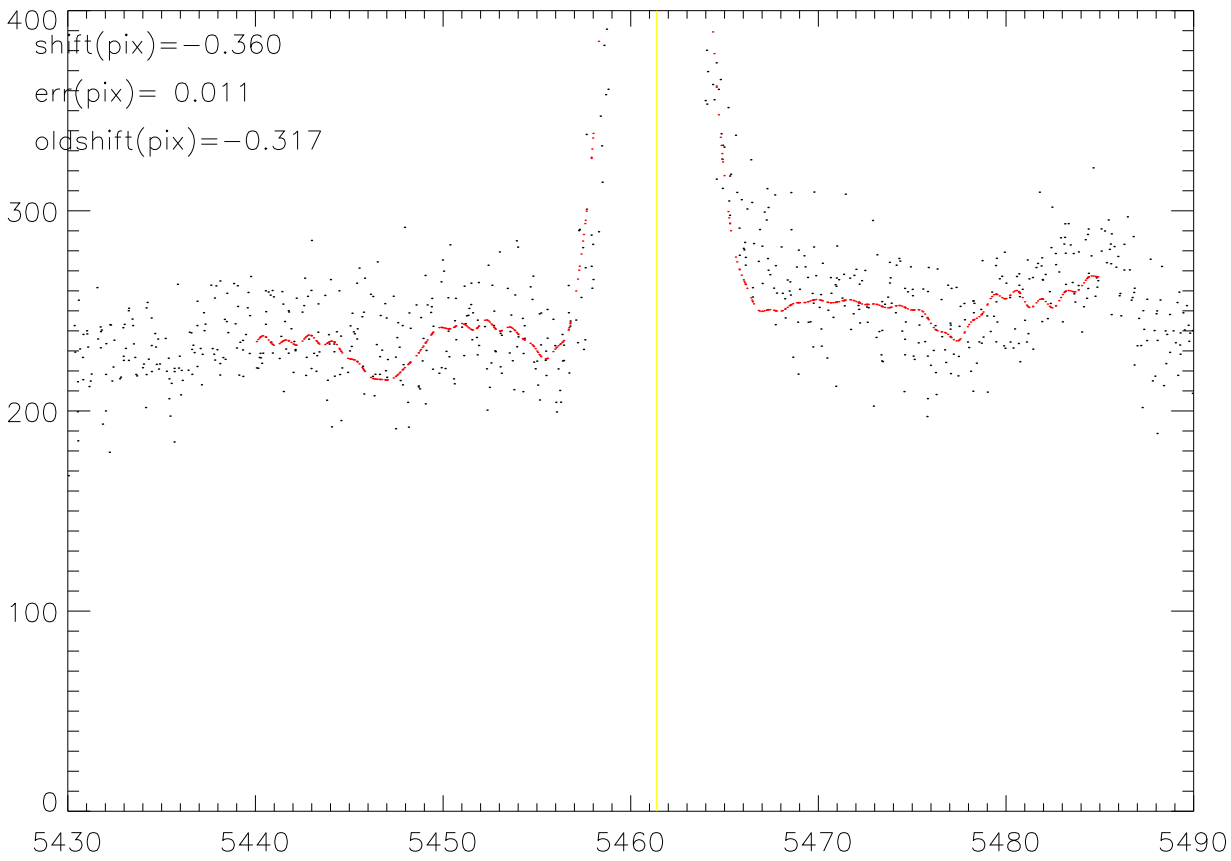

PLATE=2371 MJD=53759 Scattered Light on sdR-b2-00036693.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.260
Max value = 9.917
Sat Feb 16 11:35:58 2008

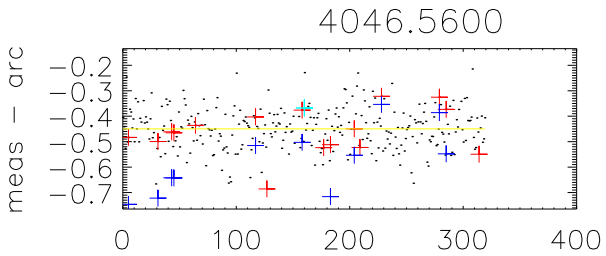

PLATE=2371 MJD=53759 Extraction chi^2 for sdR-b2-00036693.fit
BLACK = Final chisq extraction
BLUE = Initial+scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

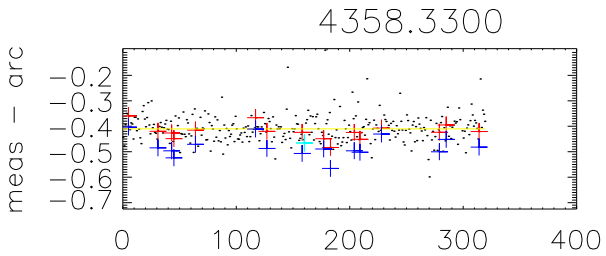

4046.5600
off: −0.67
sig: 0.037
4358.3300
off: −0.48
sig: 0.014
5460.9400
off: −0.32
sig: 0.009
5577.3390
off: −0.30
sig: 0.002
5889.9500
off: −0.25
sig: 0.005
5895.9240
off: −0.26
sig: 0.007

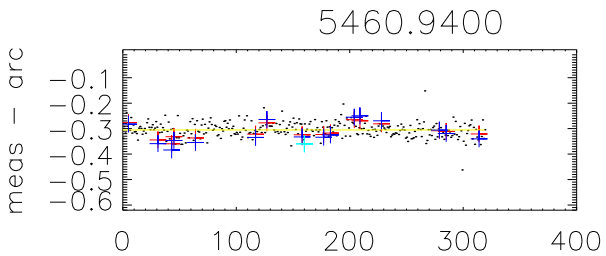

shift(pix)=−0.368
err(pix)= 0.045
oldshift(pix)=−0.667
400
300
200
100
0
4020
4030
4040
4050
4060
4070
4080

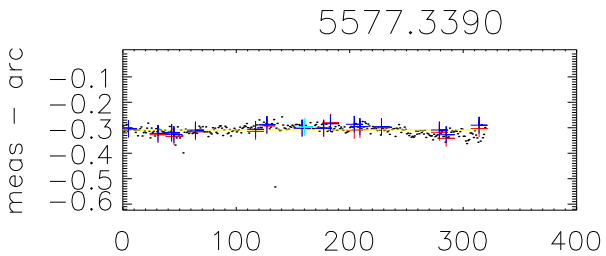

shift(pix)=−0.466
err(pix)= 0.016
oldshift(pix)=−0.481
400
300
200
100
0
4280
4300
4320
4340
4360
4380
4400
4420

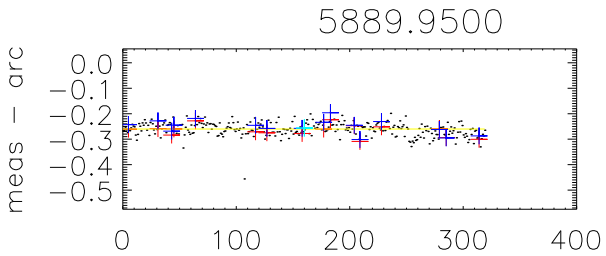

shift(pix)=−0.360
err(pix)= 0.011
oldshift(pix)=−0.317
400
300
200
100
0
5430
5440
5450
5460
5470
5480
5490

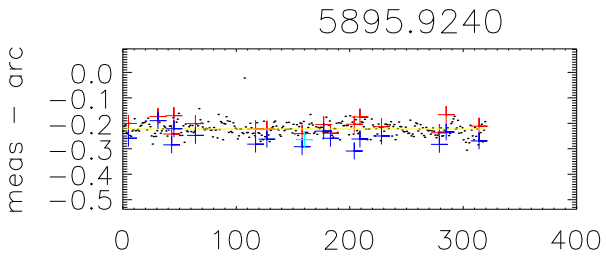

4046.5600
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

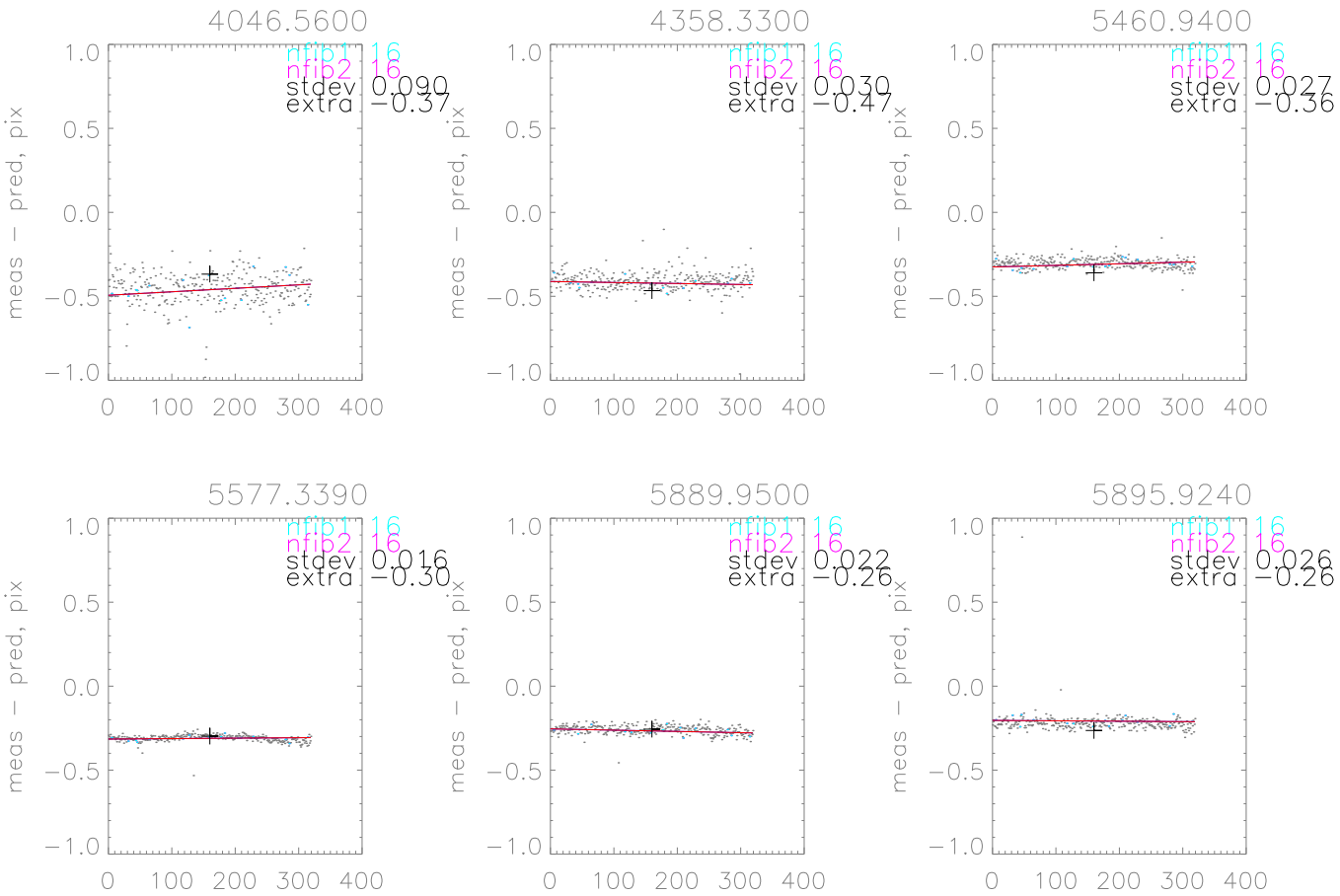

4358.3300
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

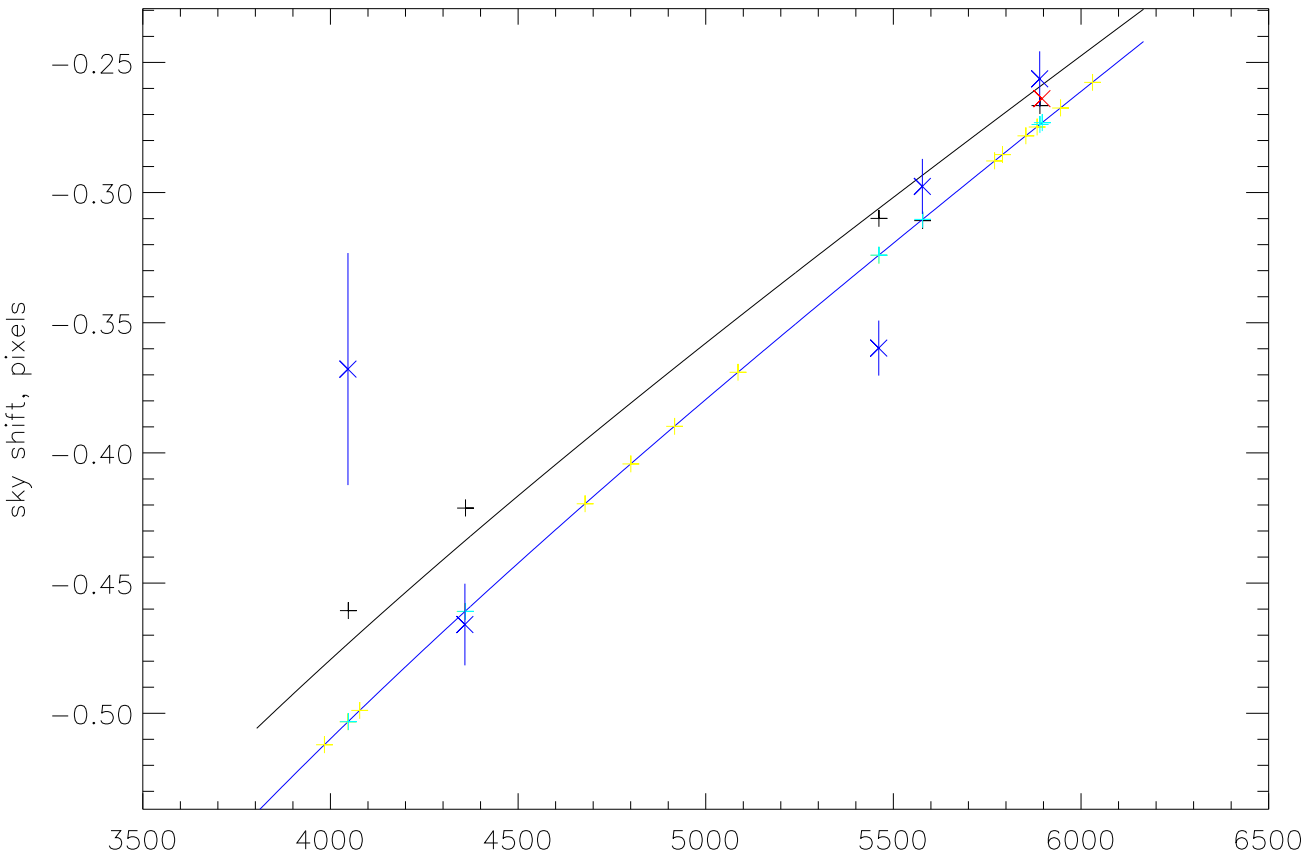

5460.9400
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

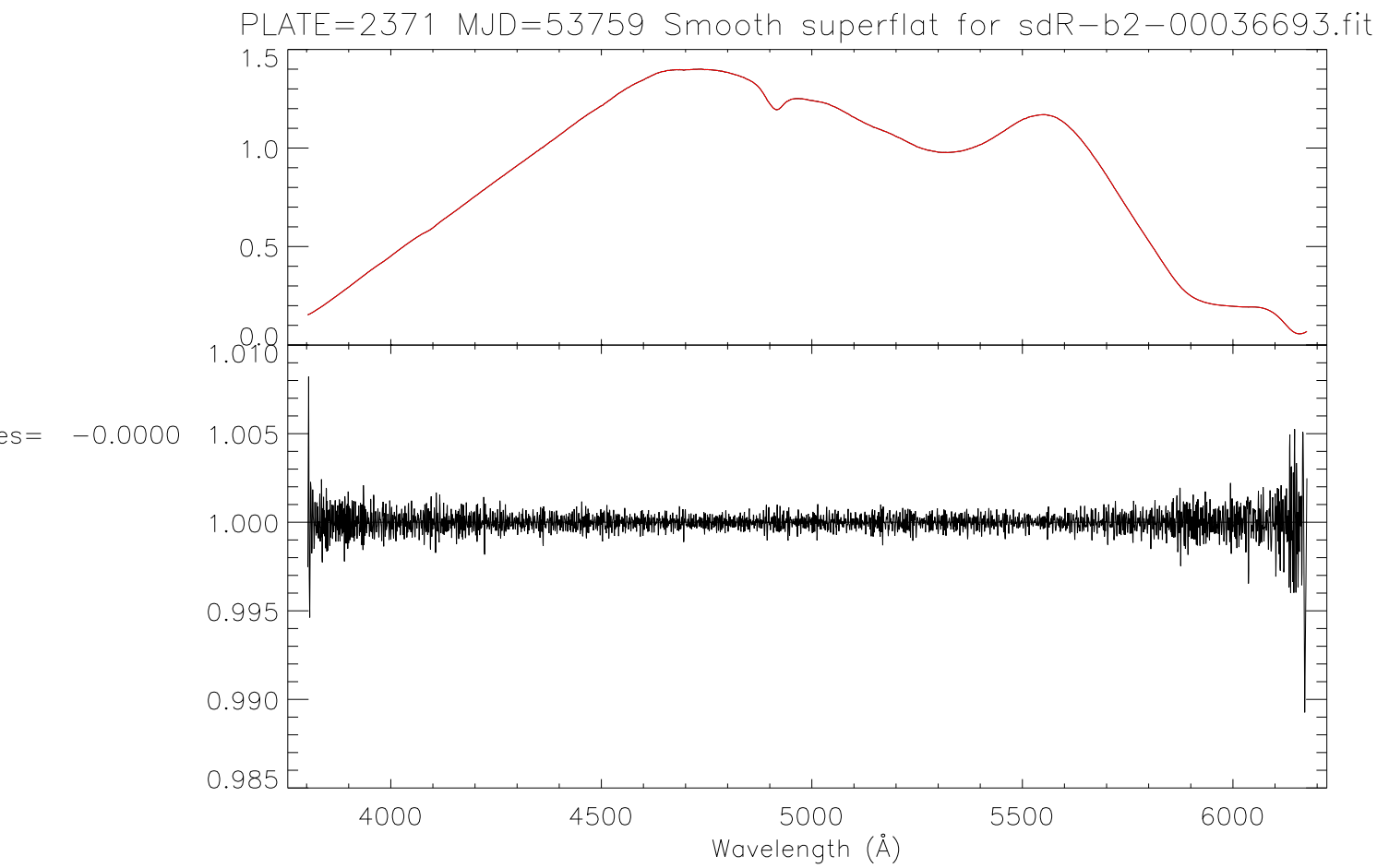

5577.3390
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

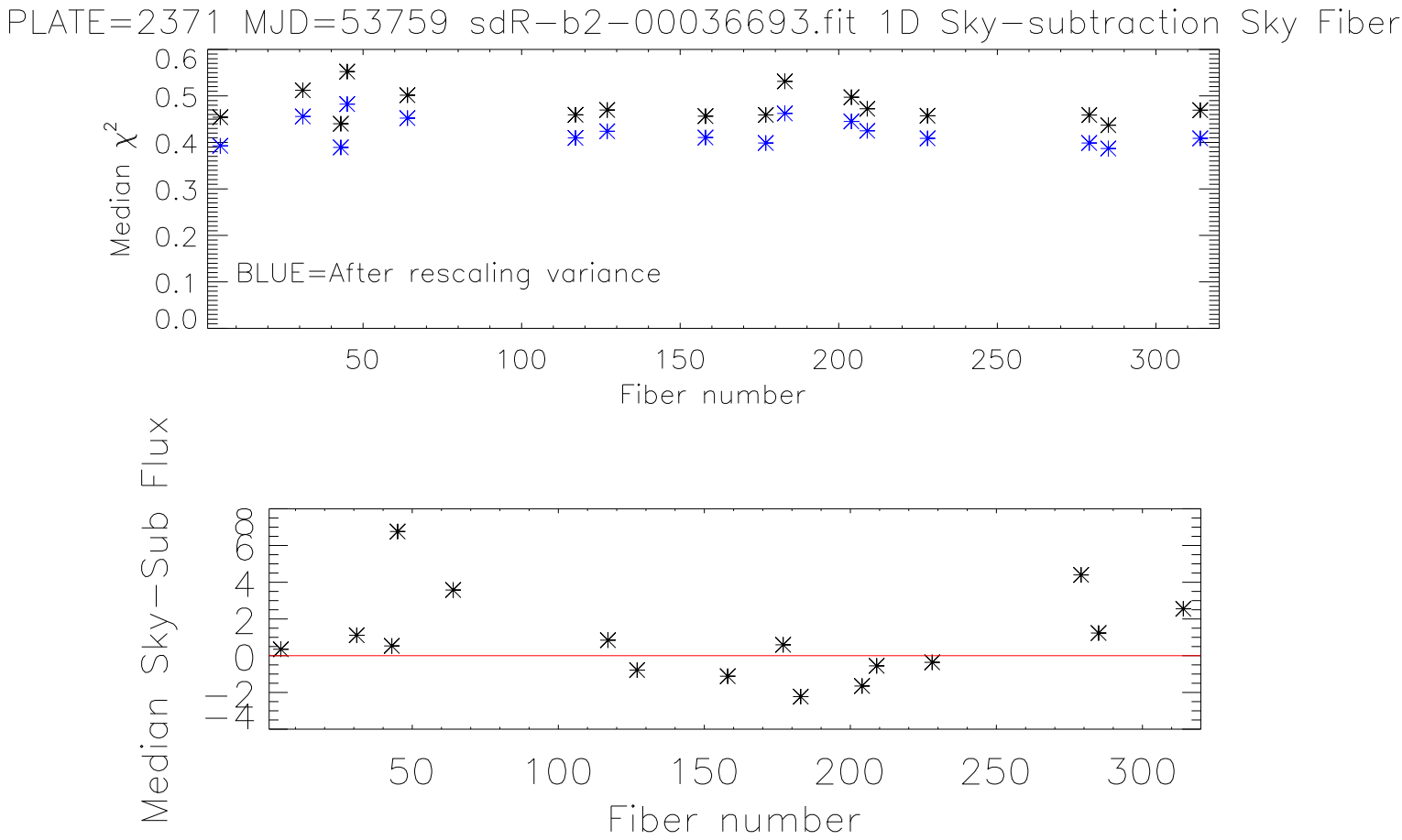

5889.9500
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

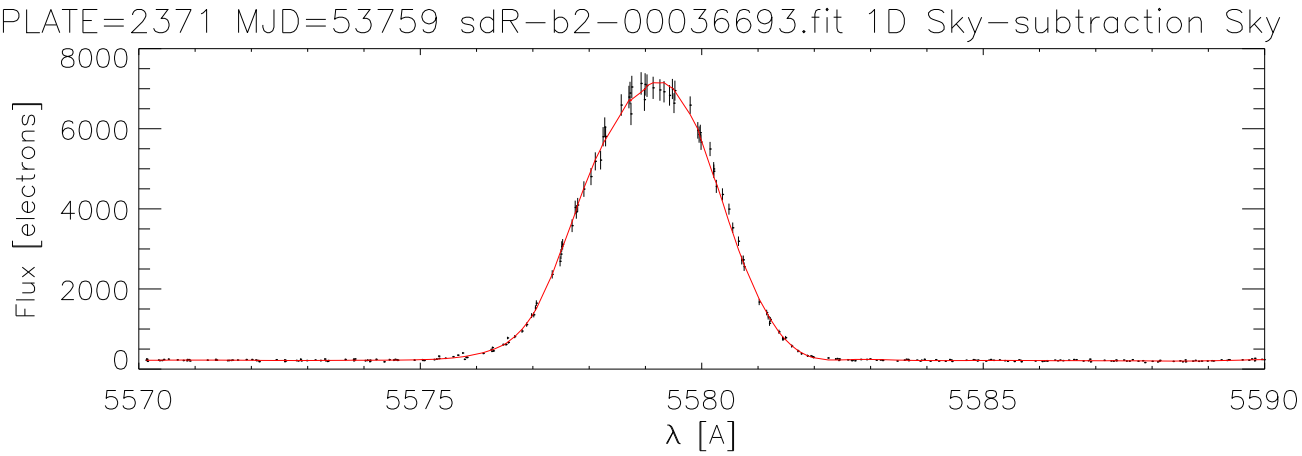

5895.9240
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

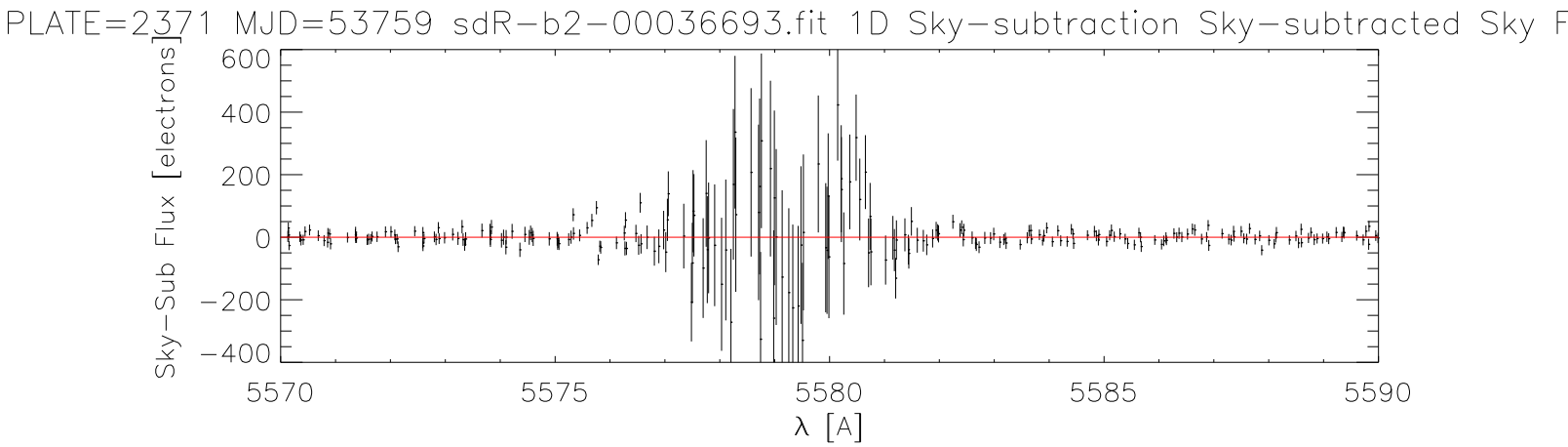

4046.5600
nfib1 16
nfib2 16
stdev 0.090
extra −0.37
4358.3300
nfib1 16
nfib2 16
stdev 0.030
extra −0.47
5460.9400
nfib1 16
nfib2 16
stdev 0.027
extra −0.36
5577.3390
nfib1 16
nfib2 16
stdev 0.016
extra −0.30
5889.9500
nfib1 16
nfib2 16
stdev 0.022
extra −0.26
5895.9240
nfib1 16
nfib2 16
stdev 0.026
extra −0.26
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

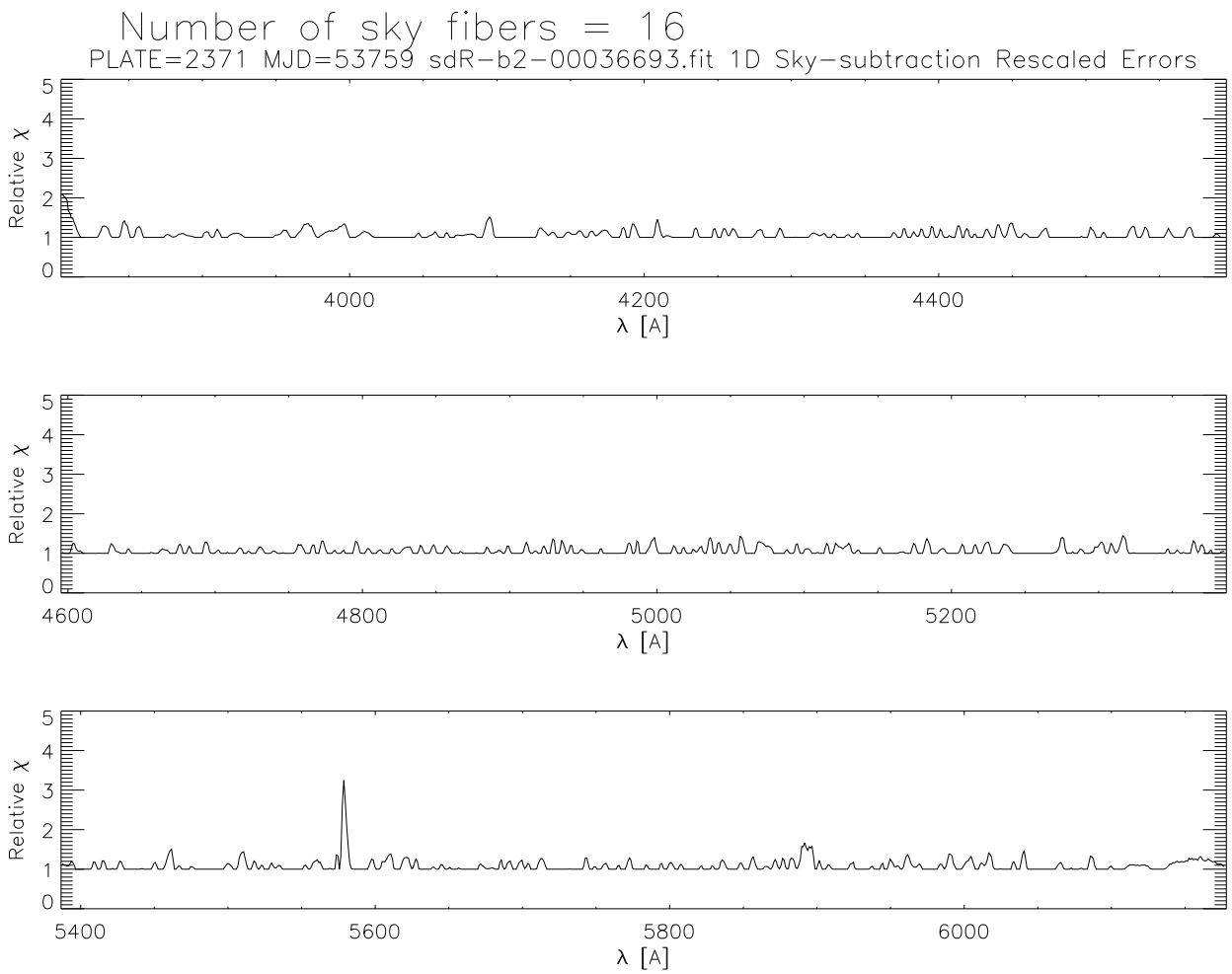

sky shift, pixels
−0.25
−0.30
−0.35
−0.40
−0.45
−0.50
3500
4000
4500
5000
5500
6000
6500

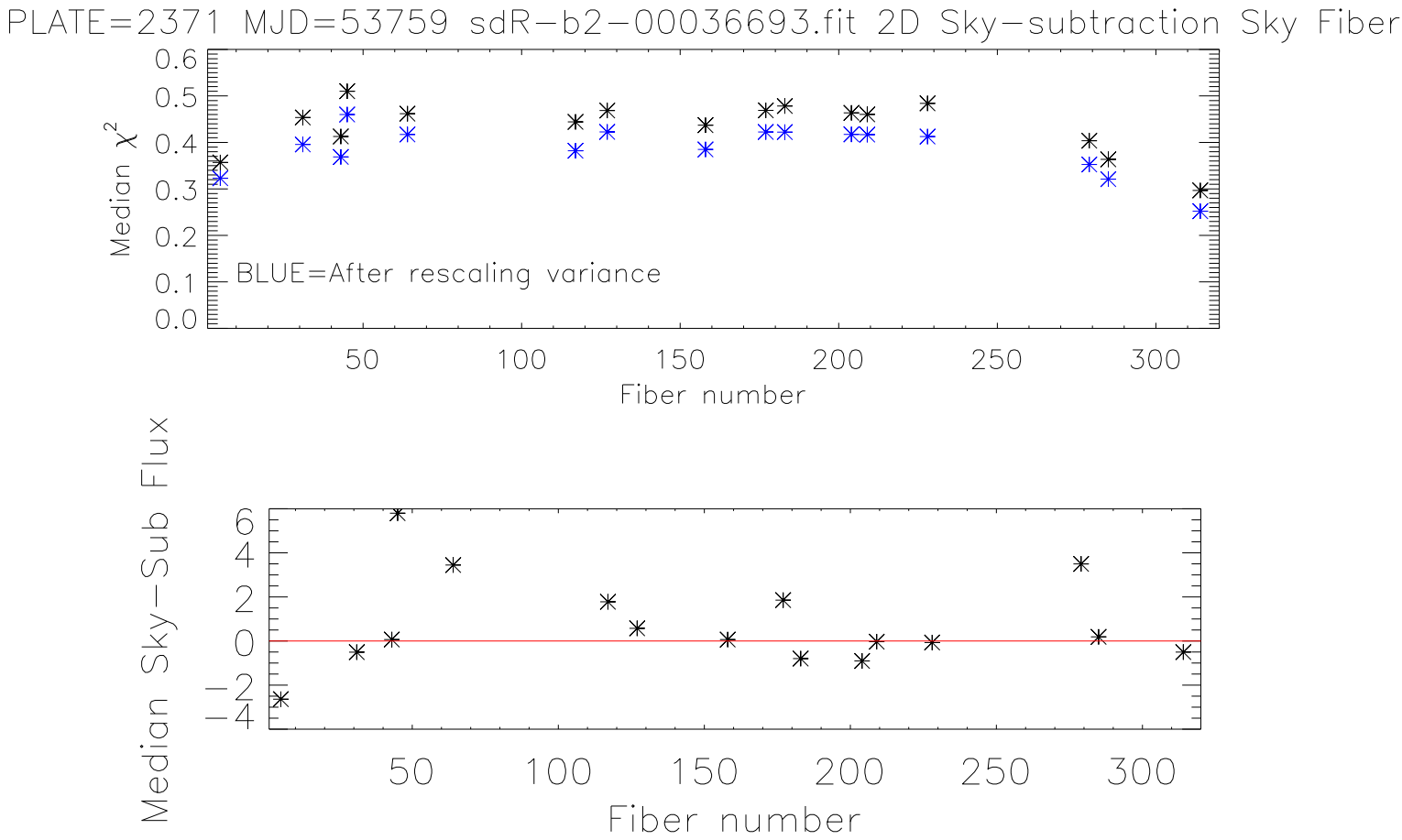

PLATE=2371 MJD=53759 Smooth superflat for sdR-b2-00036693.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

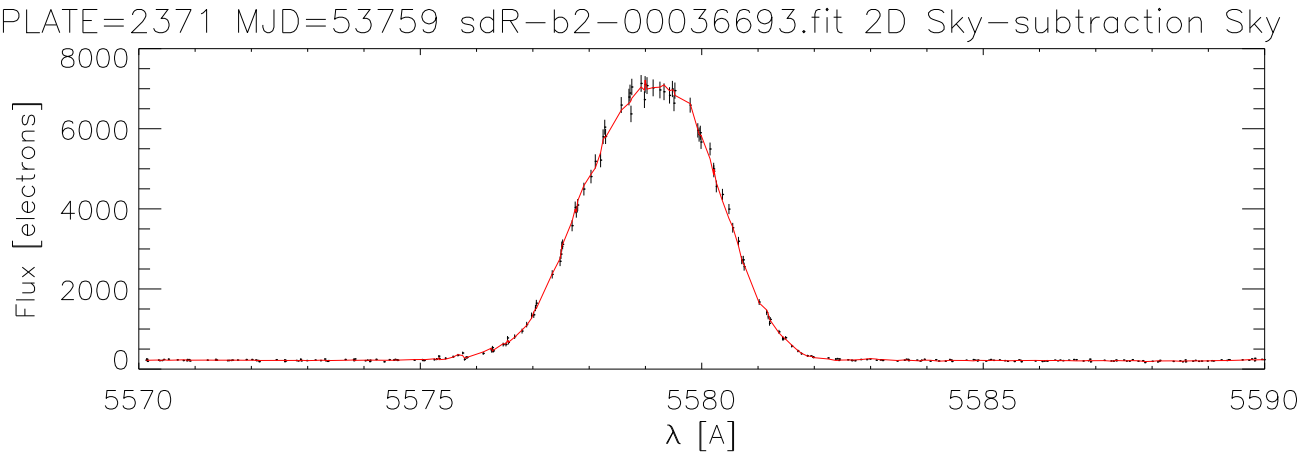

PLATE=2371 MJD=53759 sdR-b2-00036693.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

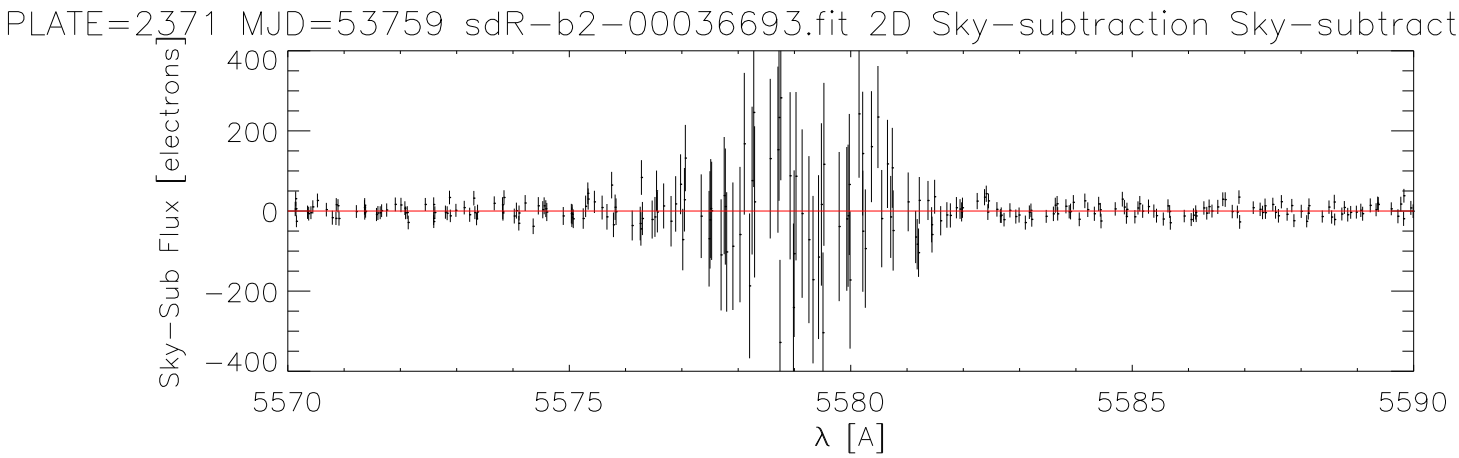

PLATE=2371 MJD=53759 sdR-b2-00036693.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

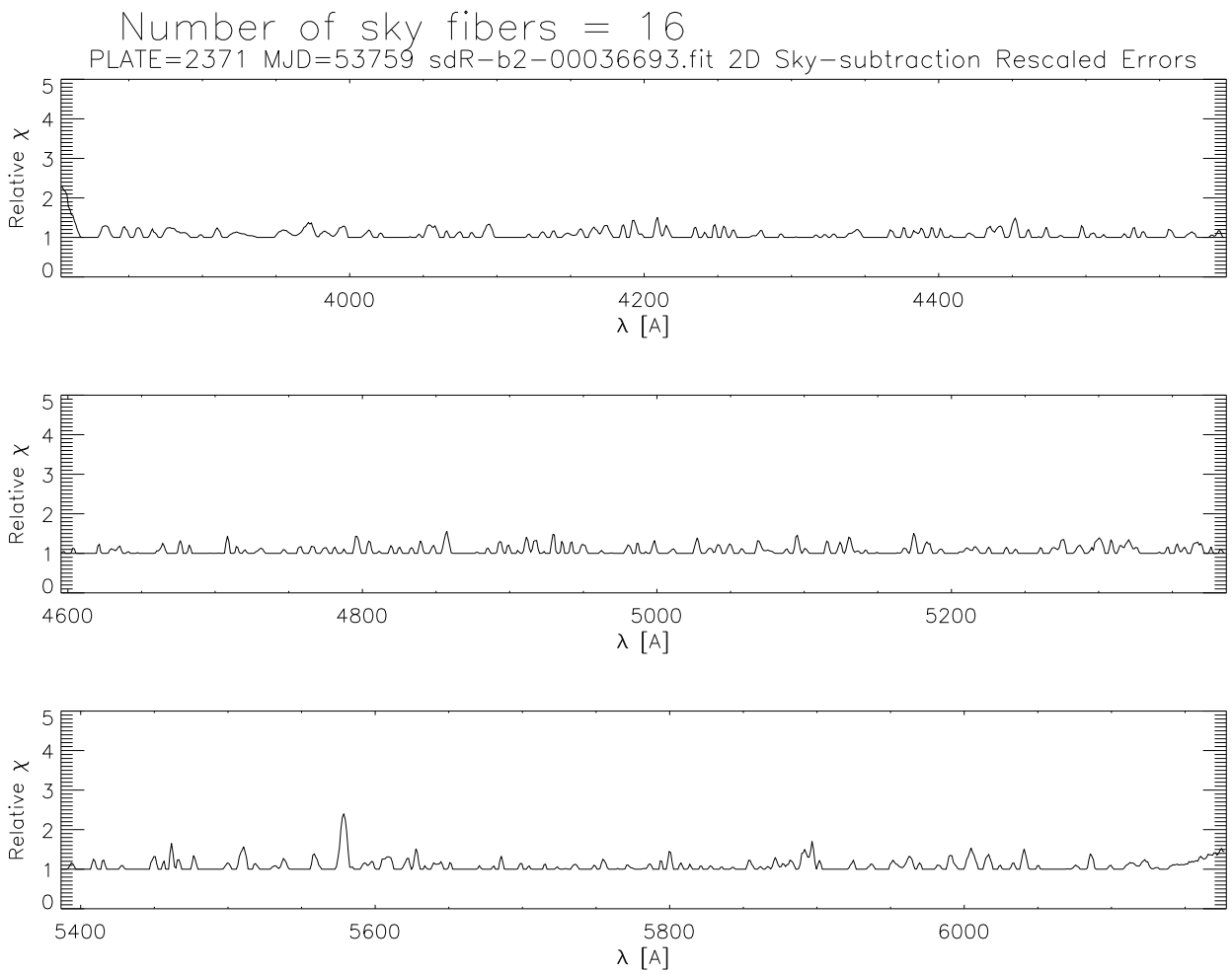

PLATE=2371 MJD=53759 sdR-b2-00036693.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

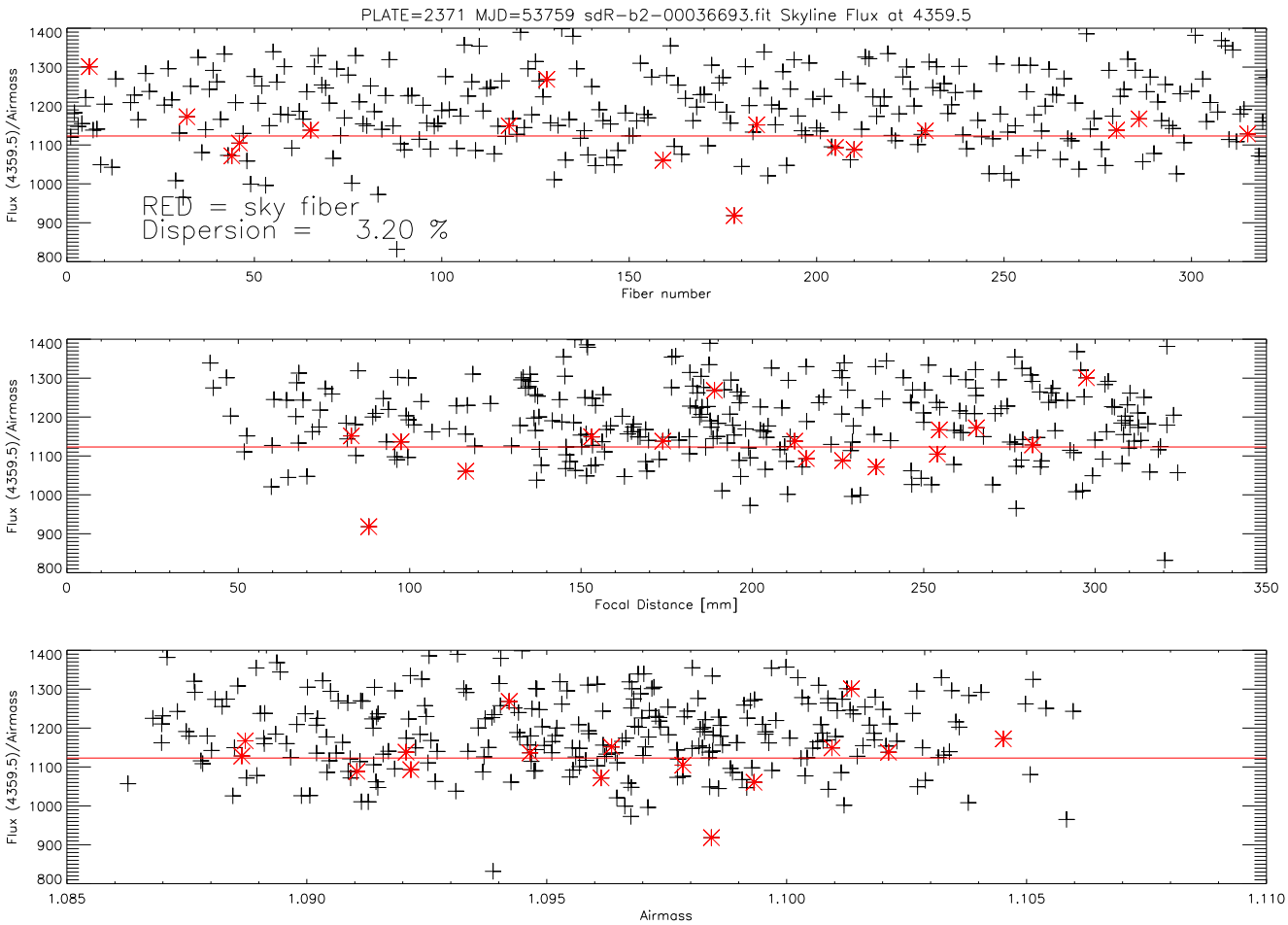

Number of sky fibers = 16
PLATE=2371 MJD=53759 sdR-b2-00036693.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

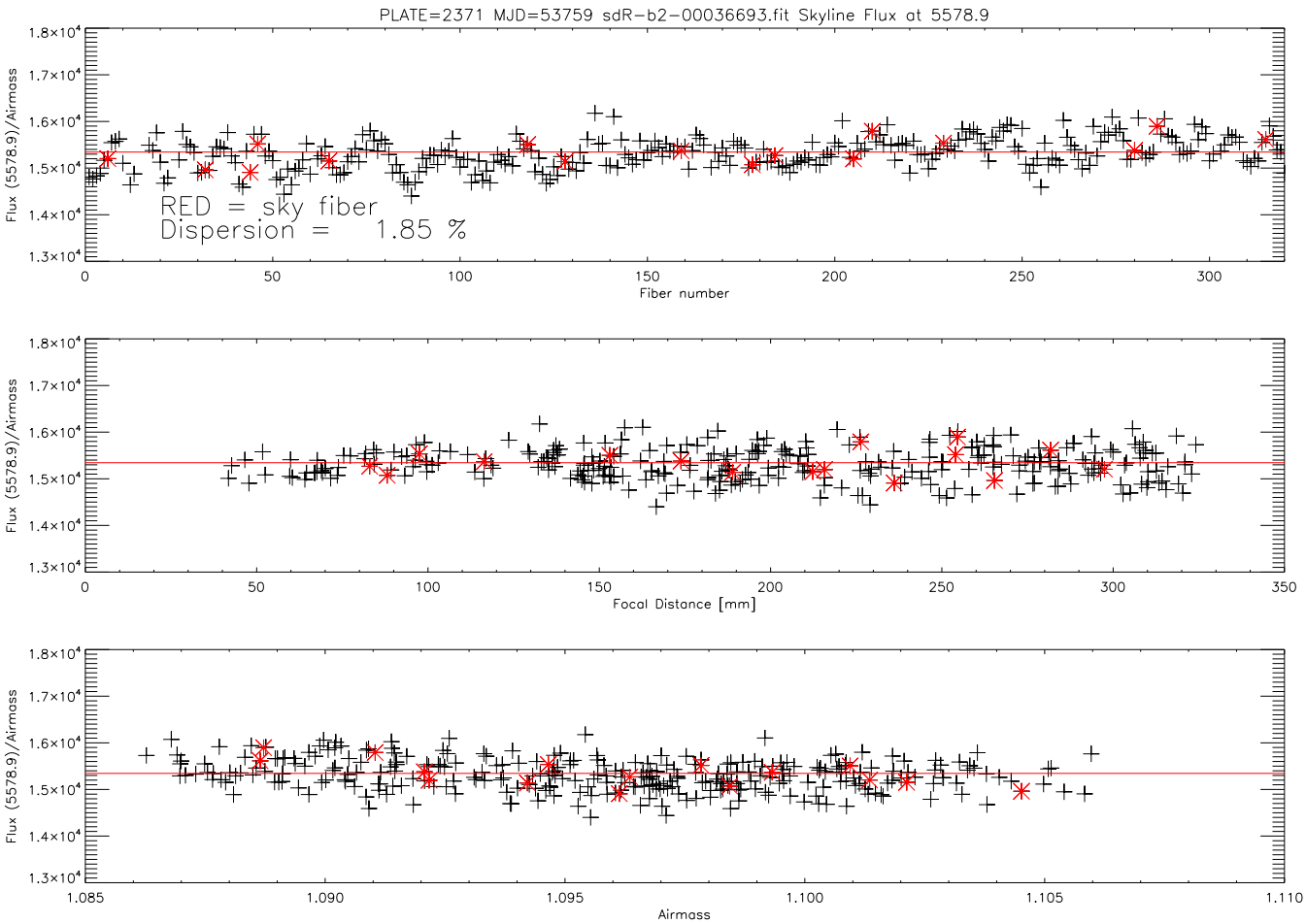

PLATE=2371 MJD=53759 sdR-b2-00036693.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

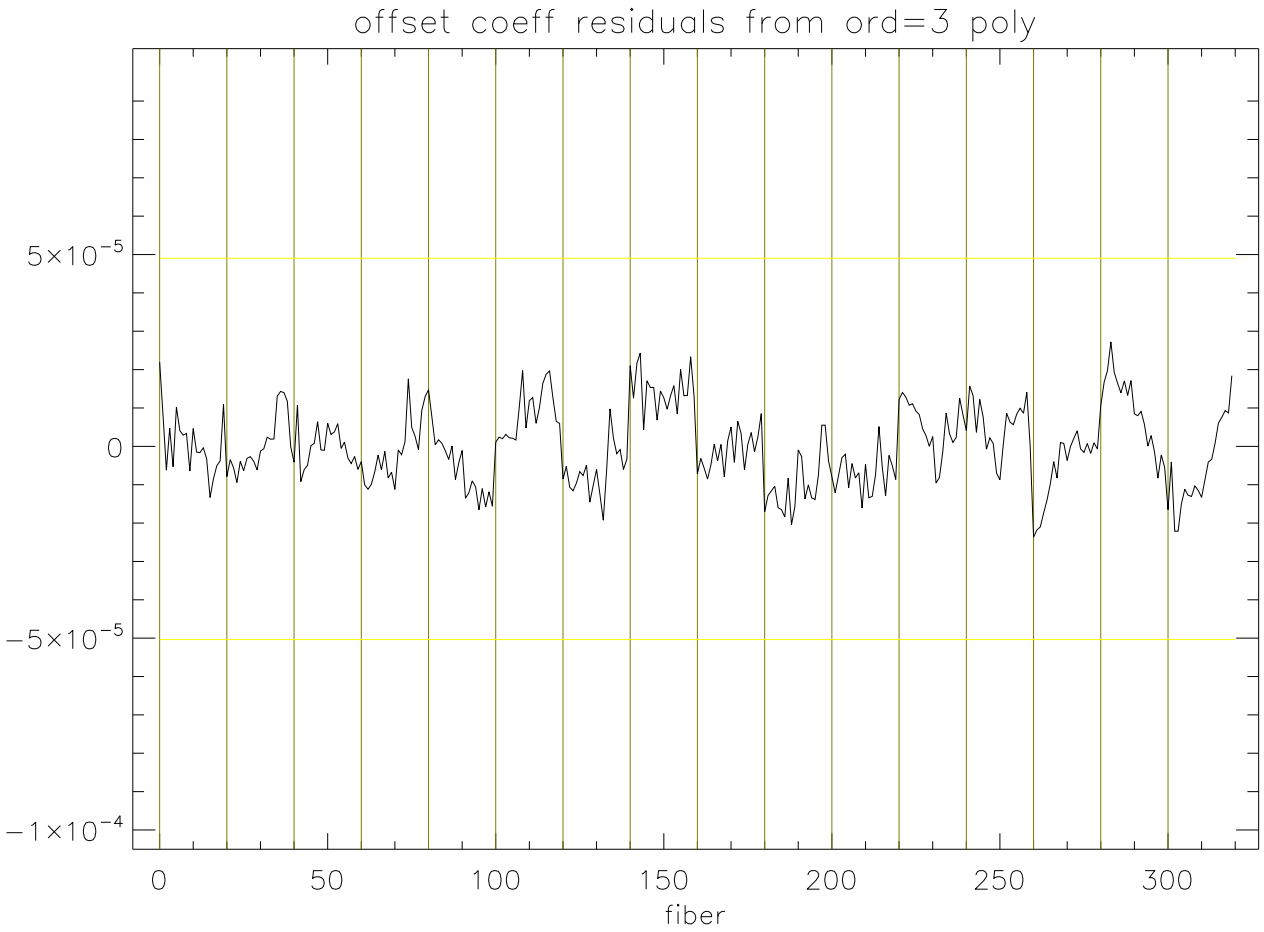

PLATE=2371 MJD=53759 sdR-b2-00036693.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

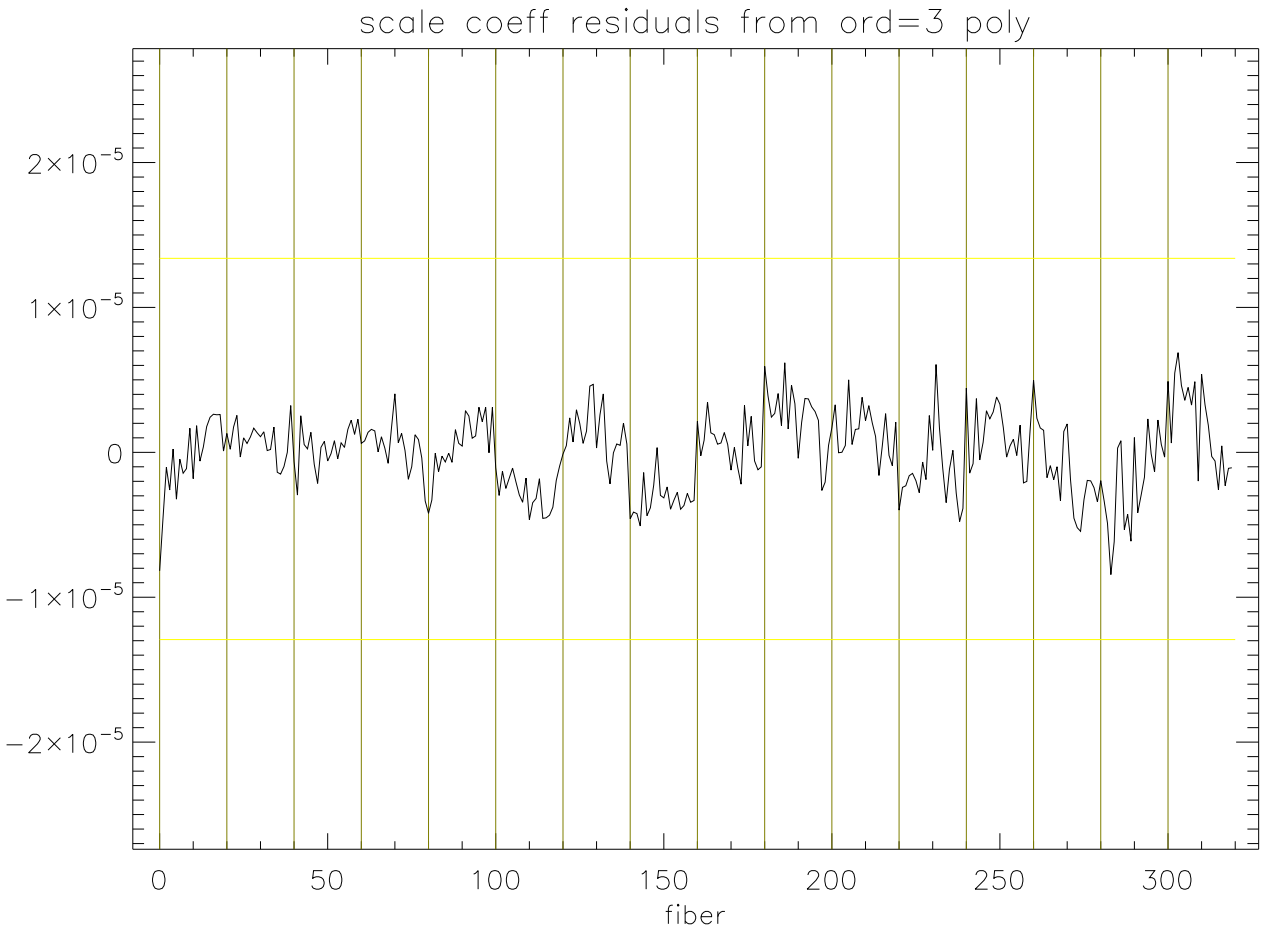

PLATE=2371 MJD=53759 sdR-b2-00036693.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

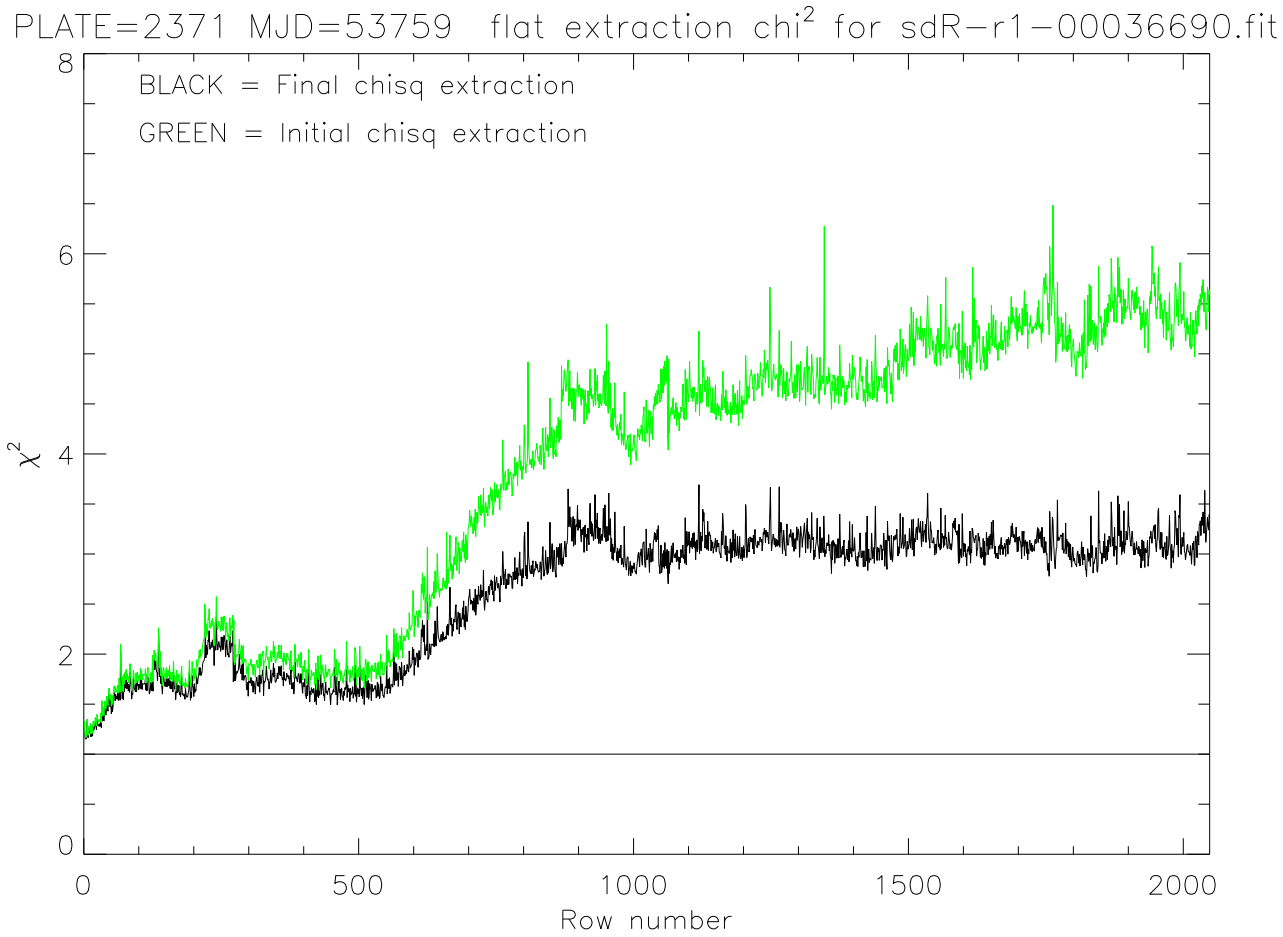

Number of sky fibers = 16
PLATE=2371 MJD=53759 sdR-b2-00036693.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

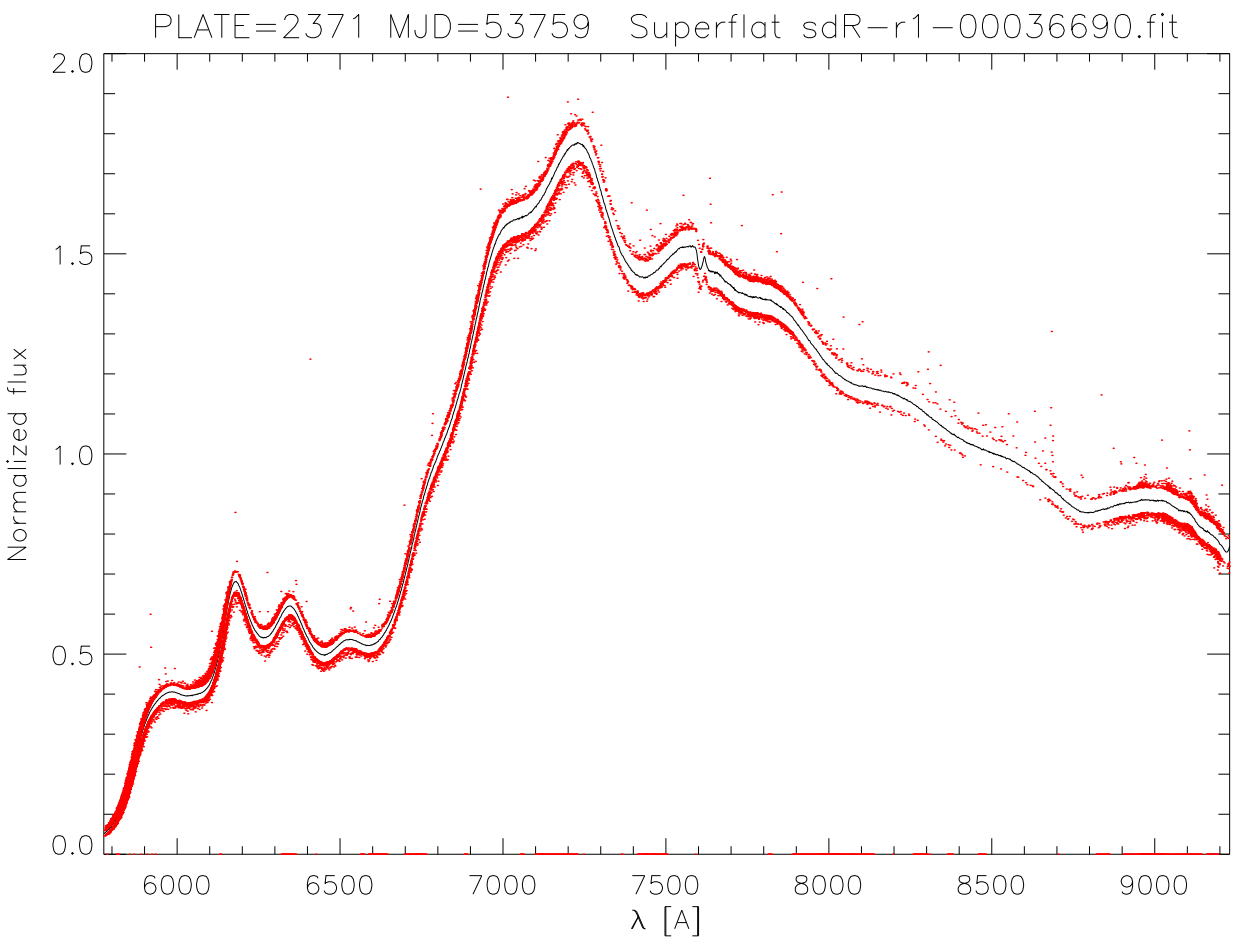

PLATE=2371 MJD=53759 sdR-b2-00036693.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 3.20 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

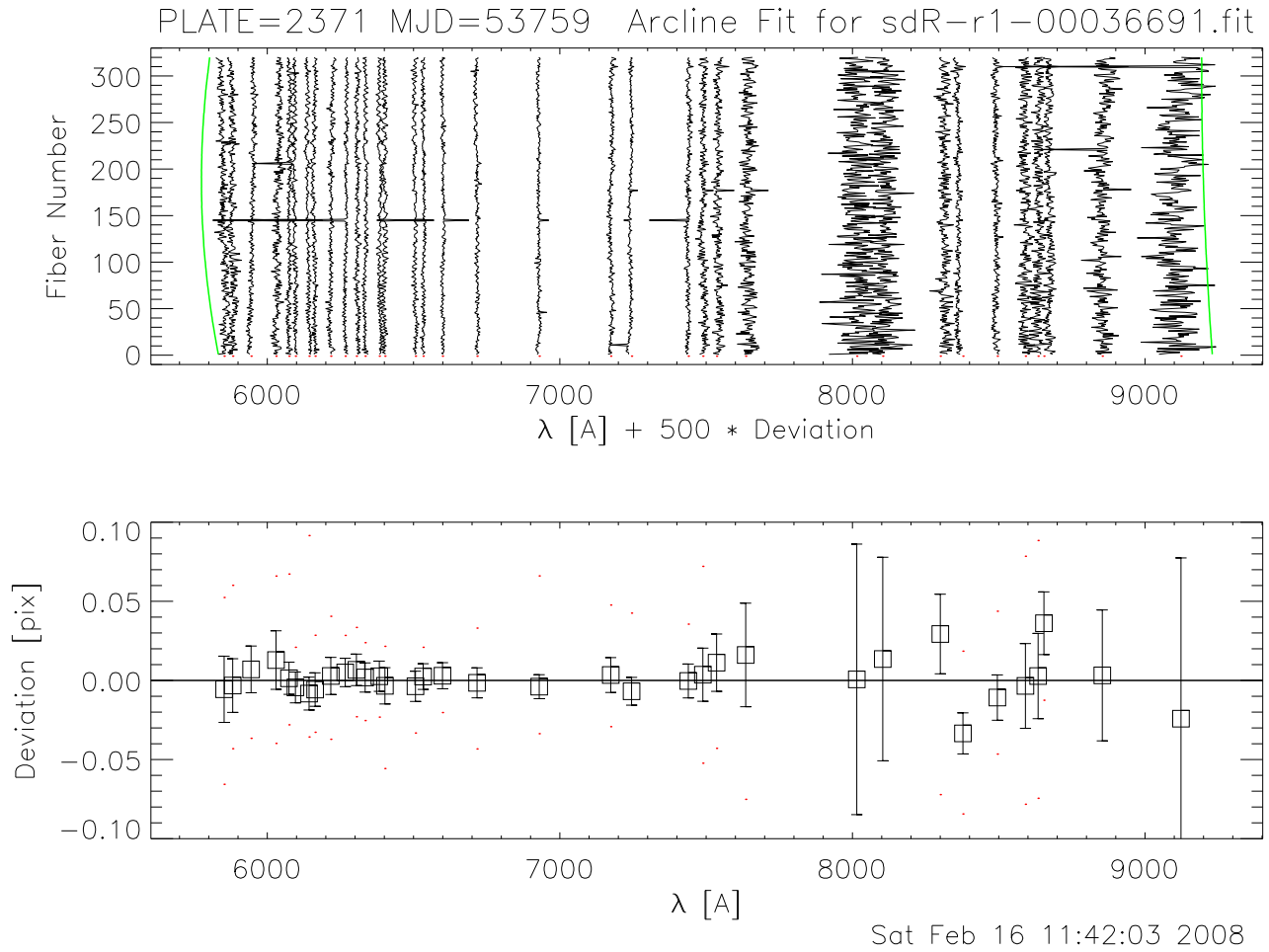

PLATE=2371 MJD=53759 sdR-b2-00036693.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.85 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

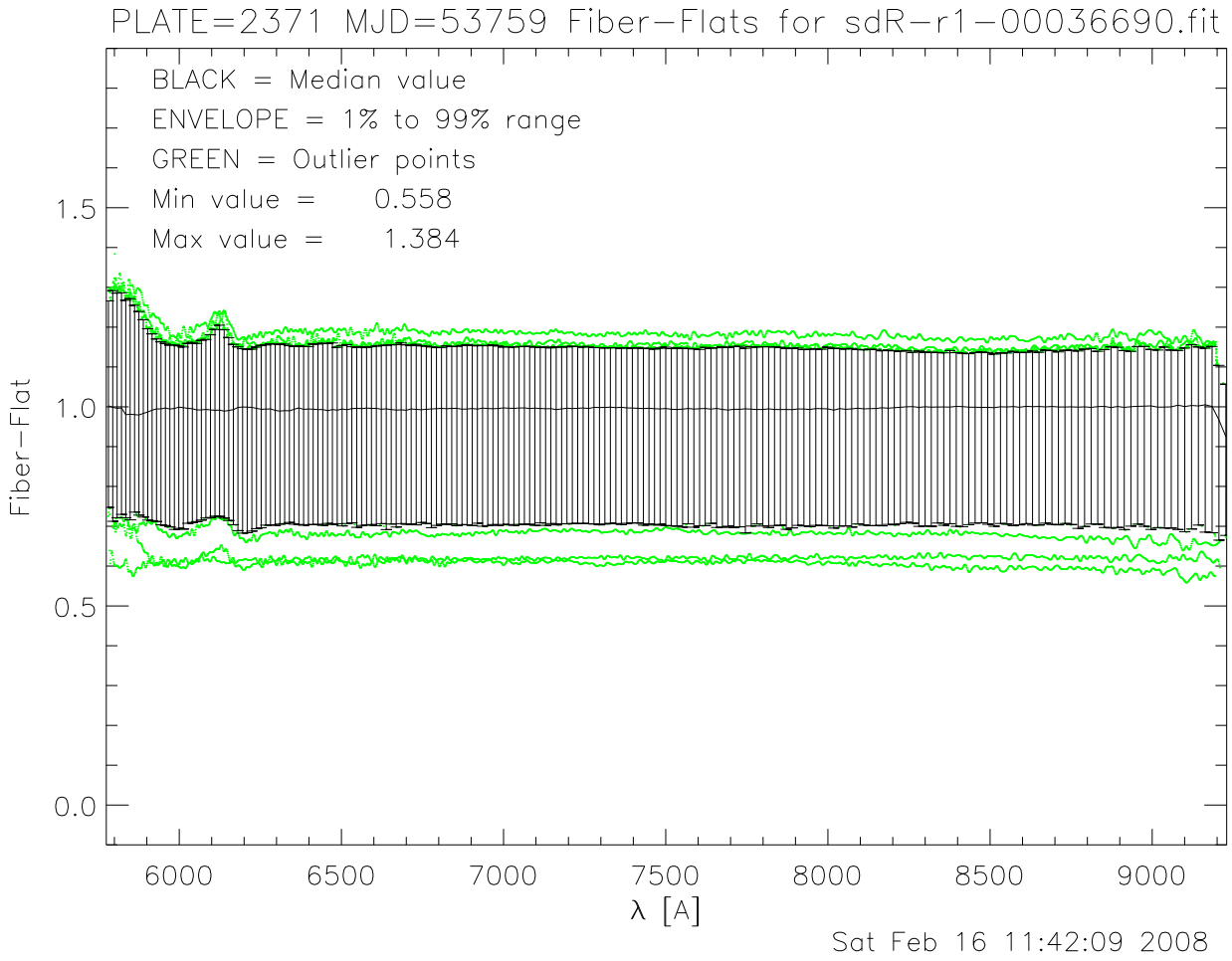

offset coeff residuals from ord=3 poly
5×10⁻⁵
0
−5×10⁻⁵
−1×10⁻⁴
0
50
100
150
200
250
300
fiber

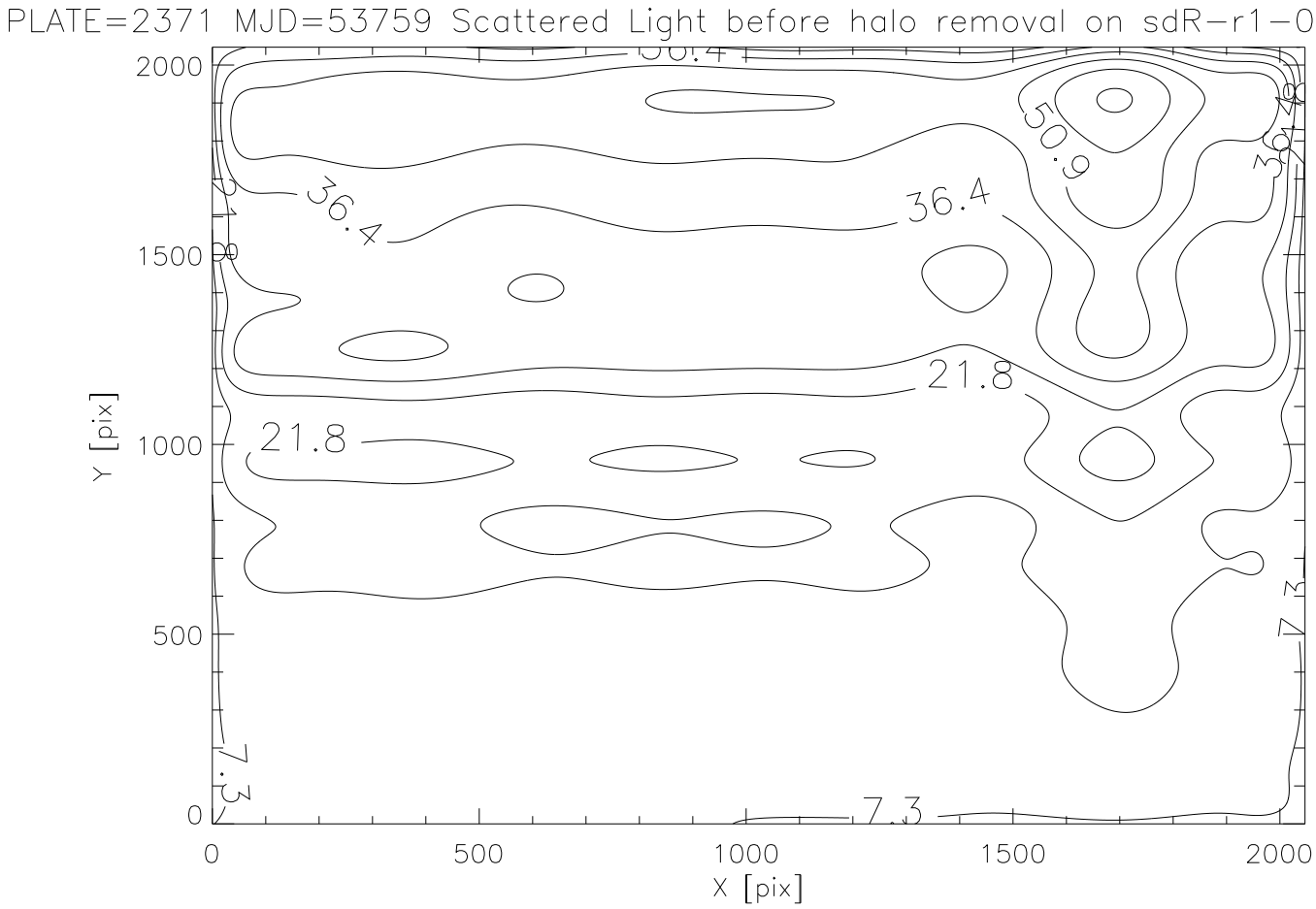

scale coeff residuals from ord=3 poly
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

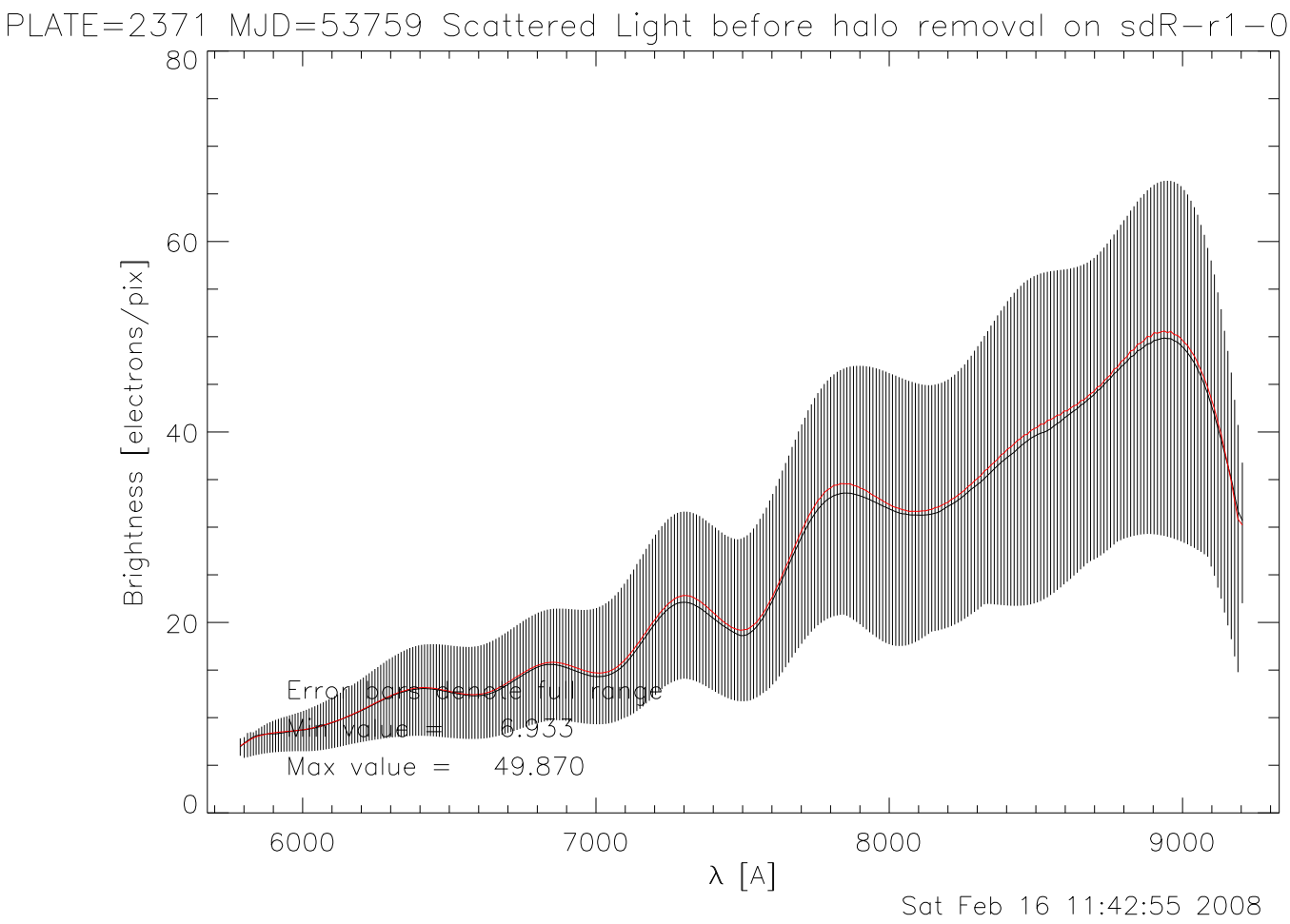

PLATE=2371 MJD=53759 flat extraction chi^2 for sdR−r1−00036690.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

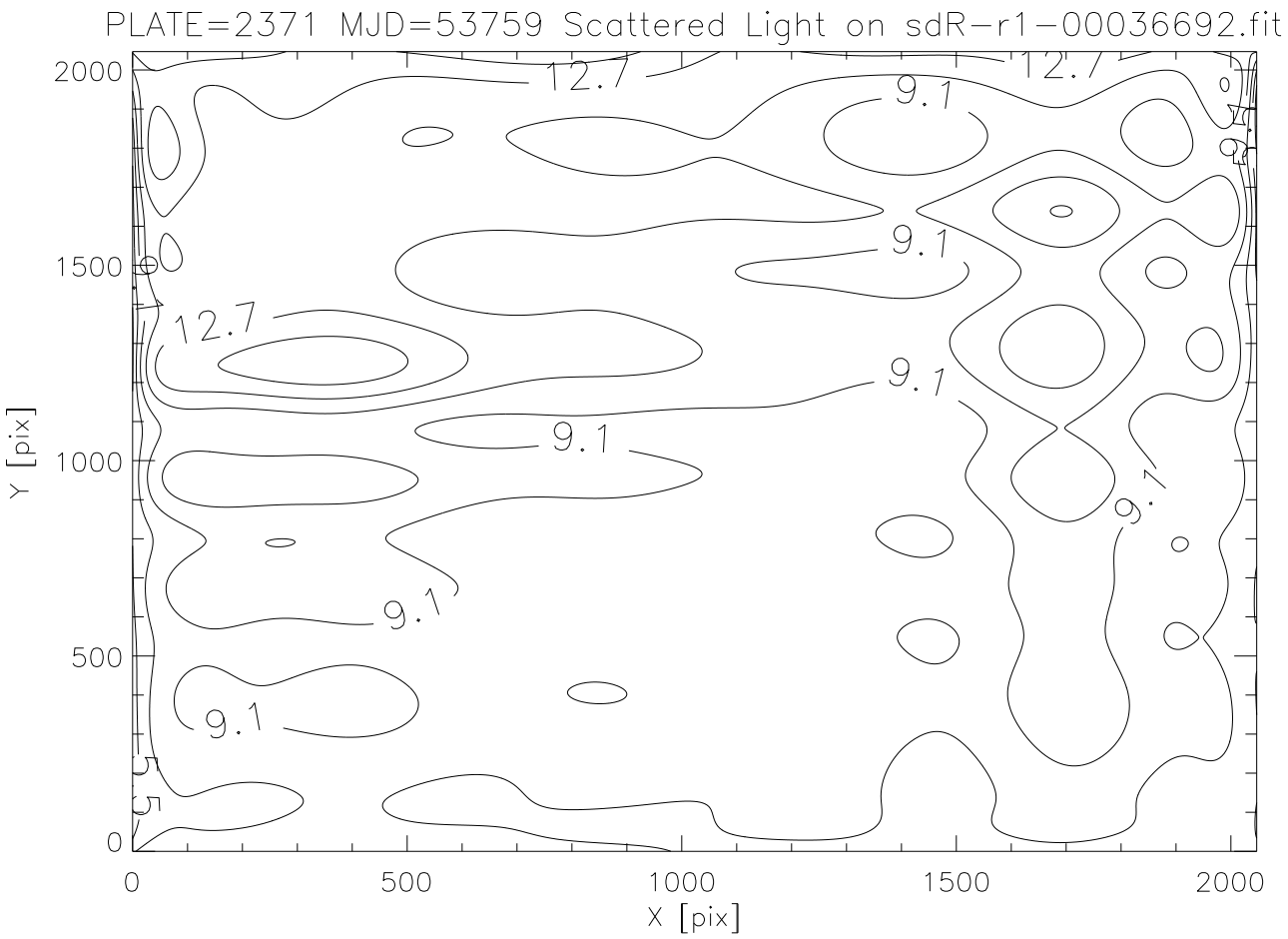

PLATE=2371 MJD=53759 Superflat sdR-r1-00036690.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

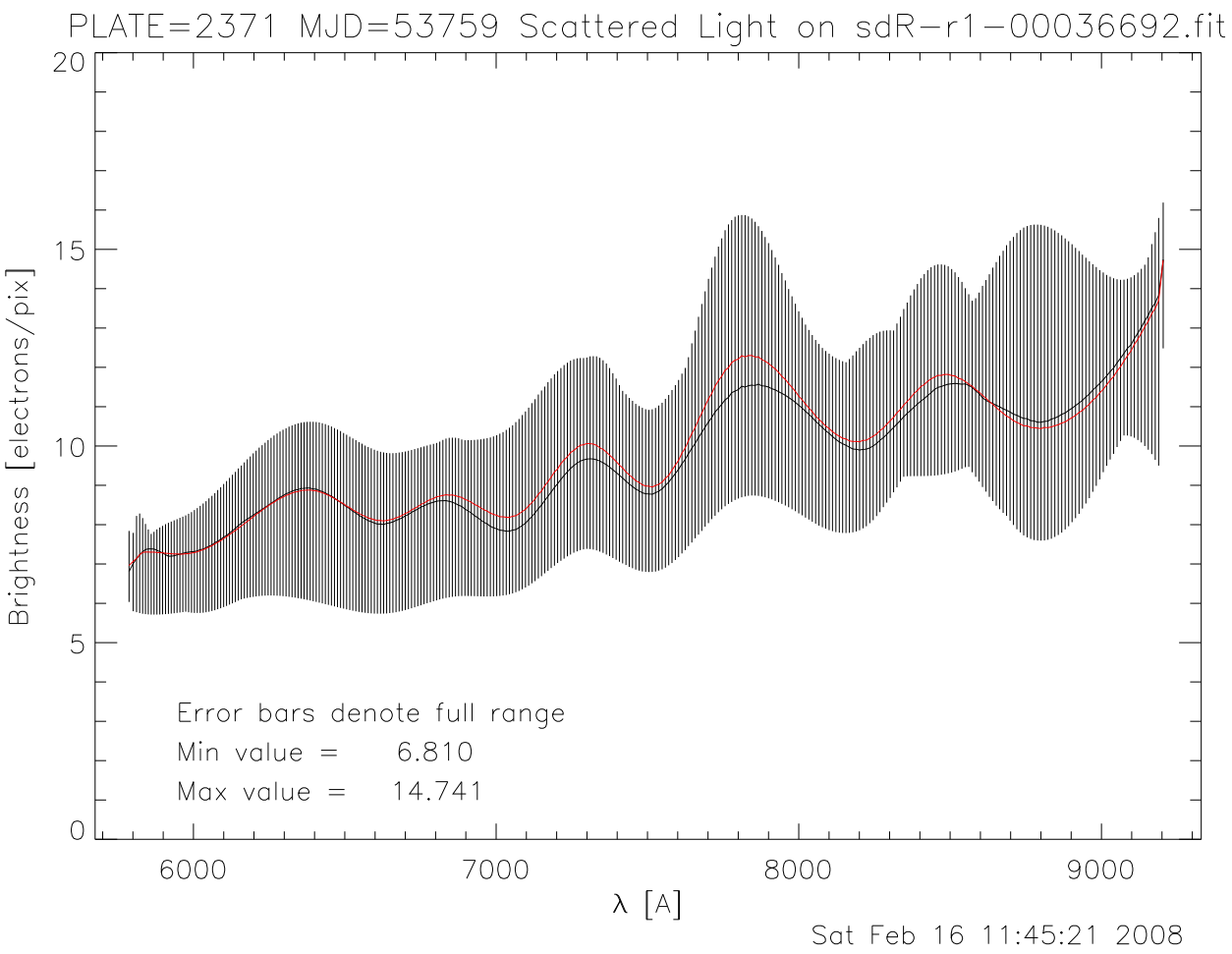

PLATE=2371 MJD=53759 Arcline Fit for sdR-r1-00036691.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Sat Feb 16 11:42:03 2008

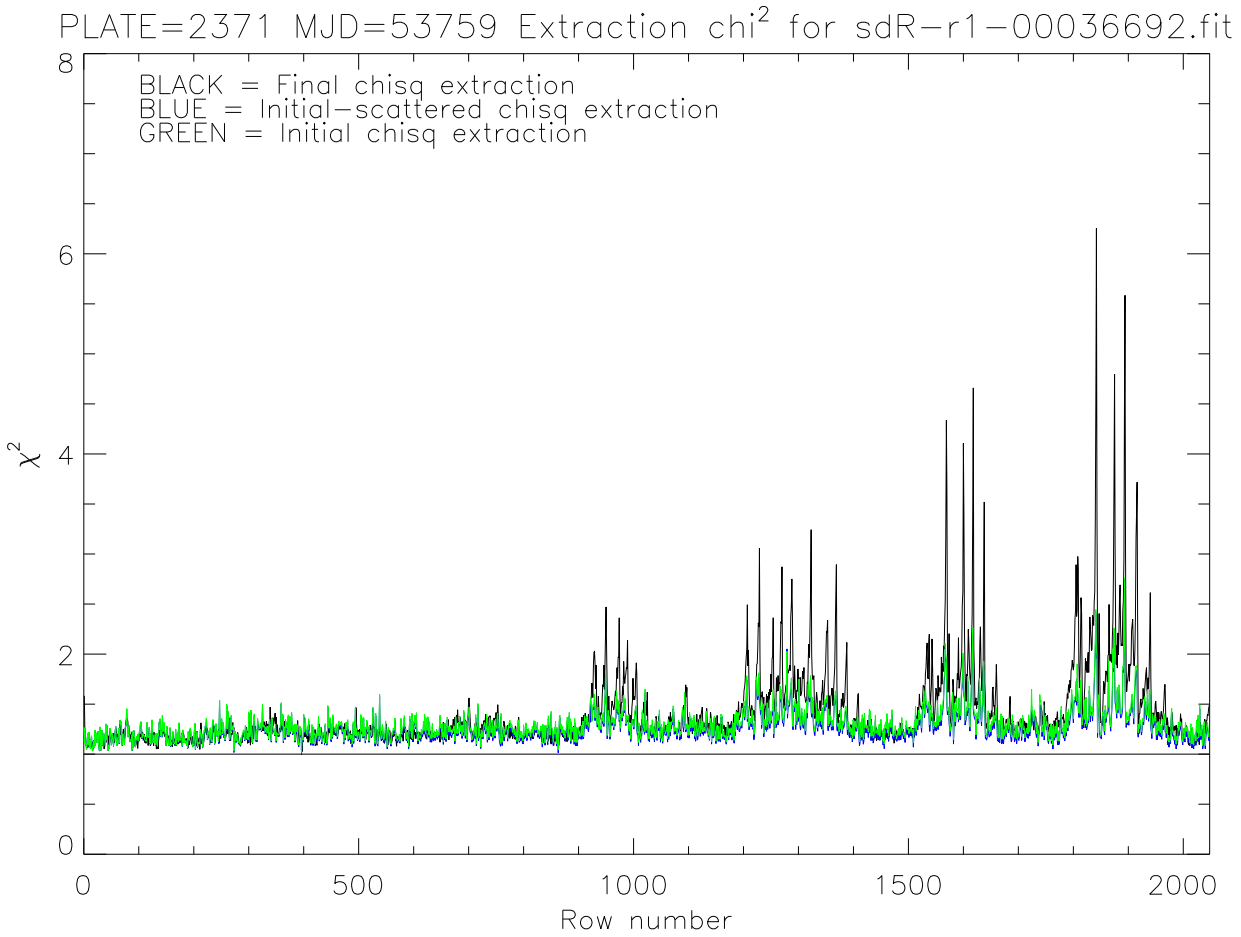

PLATE=2371 MJD=53759 Fiber−Flats for sdR−r1−00036690.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.558
Max value = 1.384
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sat Feb 16 11:42:09 2008

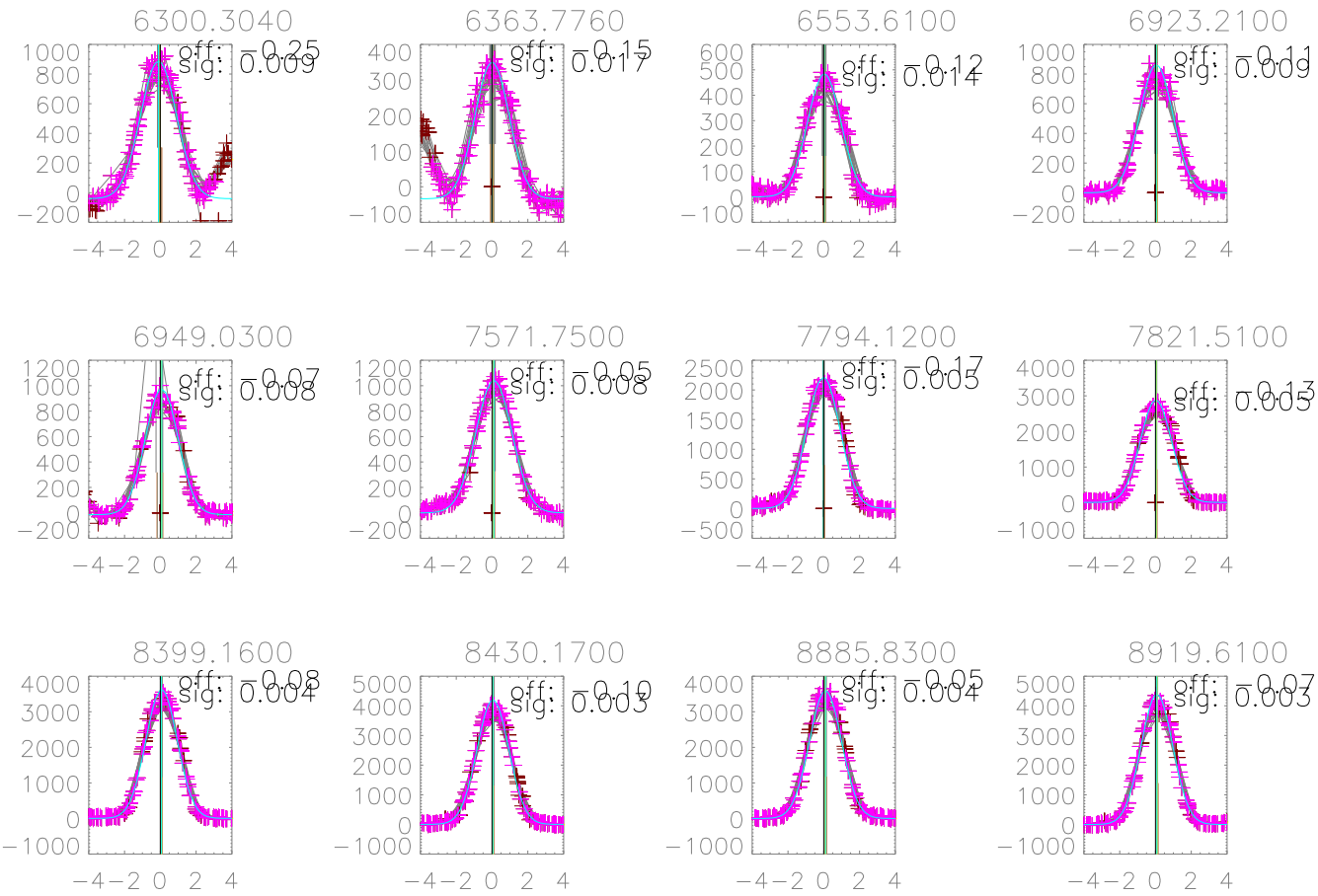

PLATE=2371 MJD=53759 Scattered Light before halo removal on sdR-r1-00036692.fi
50.9
36.4
36.4
21.8
21.8
7.3
7.3
7.3
Y [pix]
X [pix]
0
500
1000
1500
2000

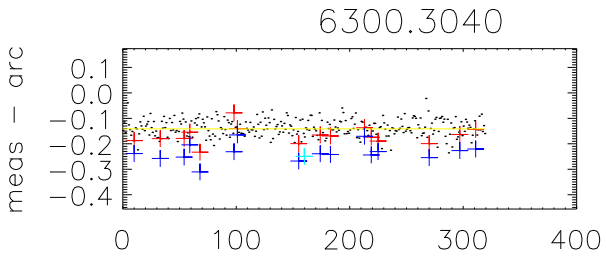

PLATE=2371 MJD=53759 Scattered Light before halo removal on sdR-r1-00036692.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.933
Max value = 49.870
Sat Feb 16 11:42:55 2008

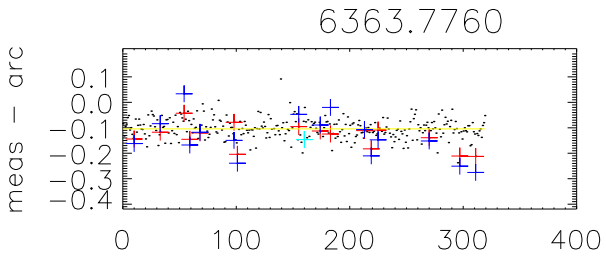

PLATE=2371 MJD=53759 Scattered Light on sdR−r1−00036692.fit
12.7
9.1
5
Y [pix]
X [pix]
0
500
1000
1500
2000

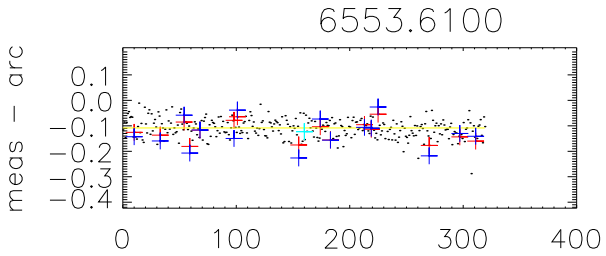

PLATE=2371 MJD=53759 Scattered Light on sdR-r1-00036692.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.810
Max value = 14.741
Sat Feb 16 11:45:21 2008

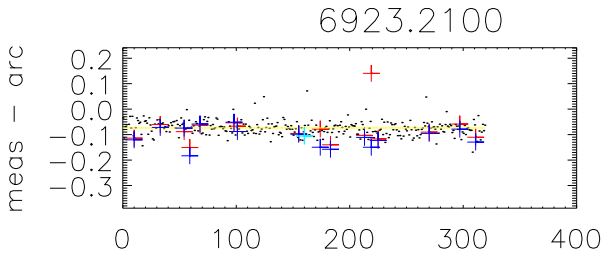

PLATE=2371 MJD=53759 Extraction chi^2 for sdR−r1−00036692.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

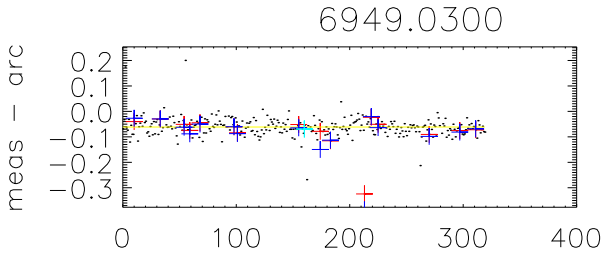

6300.3040
off: −0.25
sig: 0.009
6363.7760
off: −0.15
sig: 0.017
6553.6100
off: −0.12
sig: 0.014
6923.2100
off: −0.11
sig: 0.009
6949.0300
off: −0.07
sig: 0.008
7571.7500
off: −0.05
sig: 0.008
7794.1200
off: −0.17
sig: 0.005
7821.5100
off: −0.13
sig: 0.005
8399.1600
off: −0.08
sig: 0.004
8430.1700
off: −0.10
sig: 0.003
8885.8300
off: −0.05
sig: 0.004
8919.6100
off: −0.07
sig: 0.003

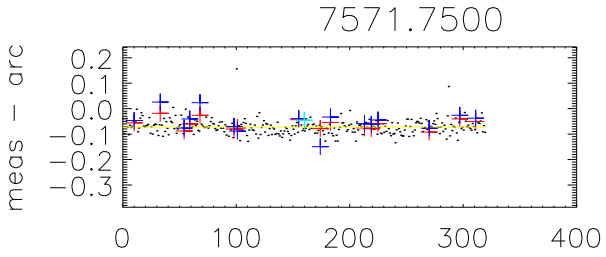

6300.3040
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

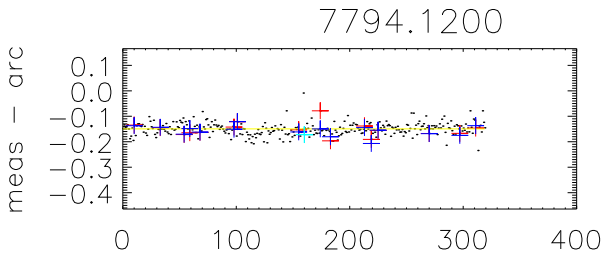

6363.7760
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

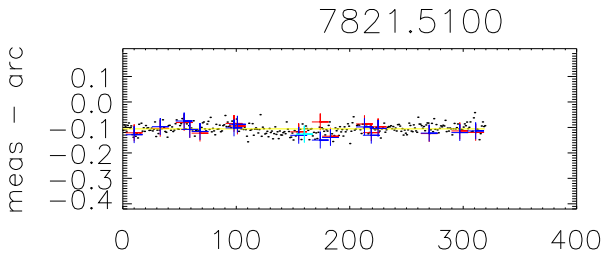

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

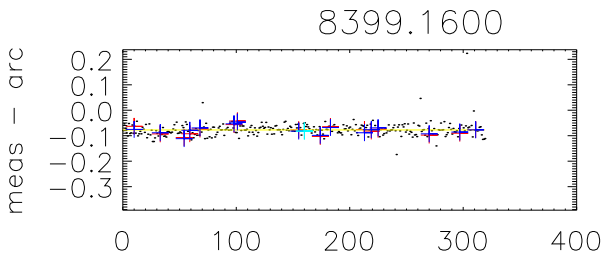

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

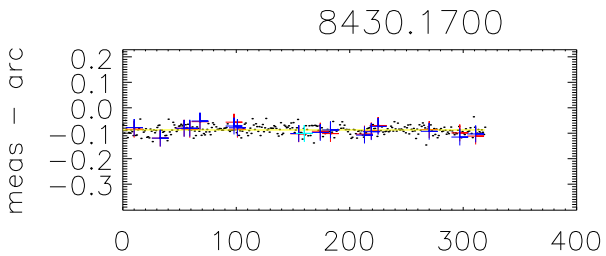

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

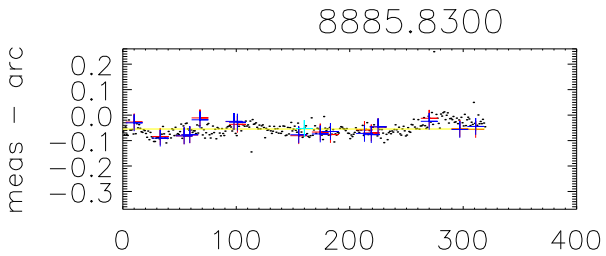

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

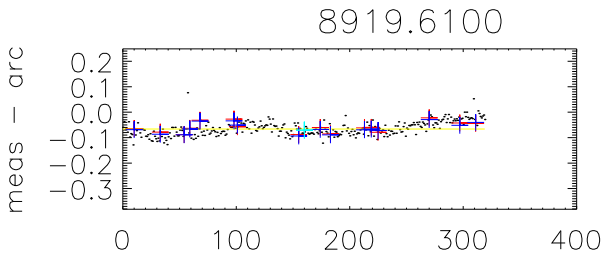

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

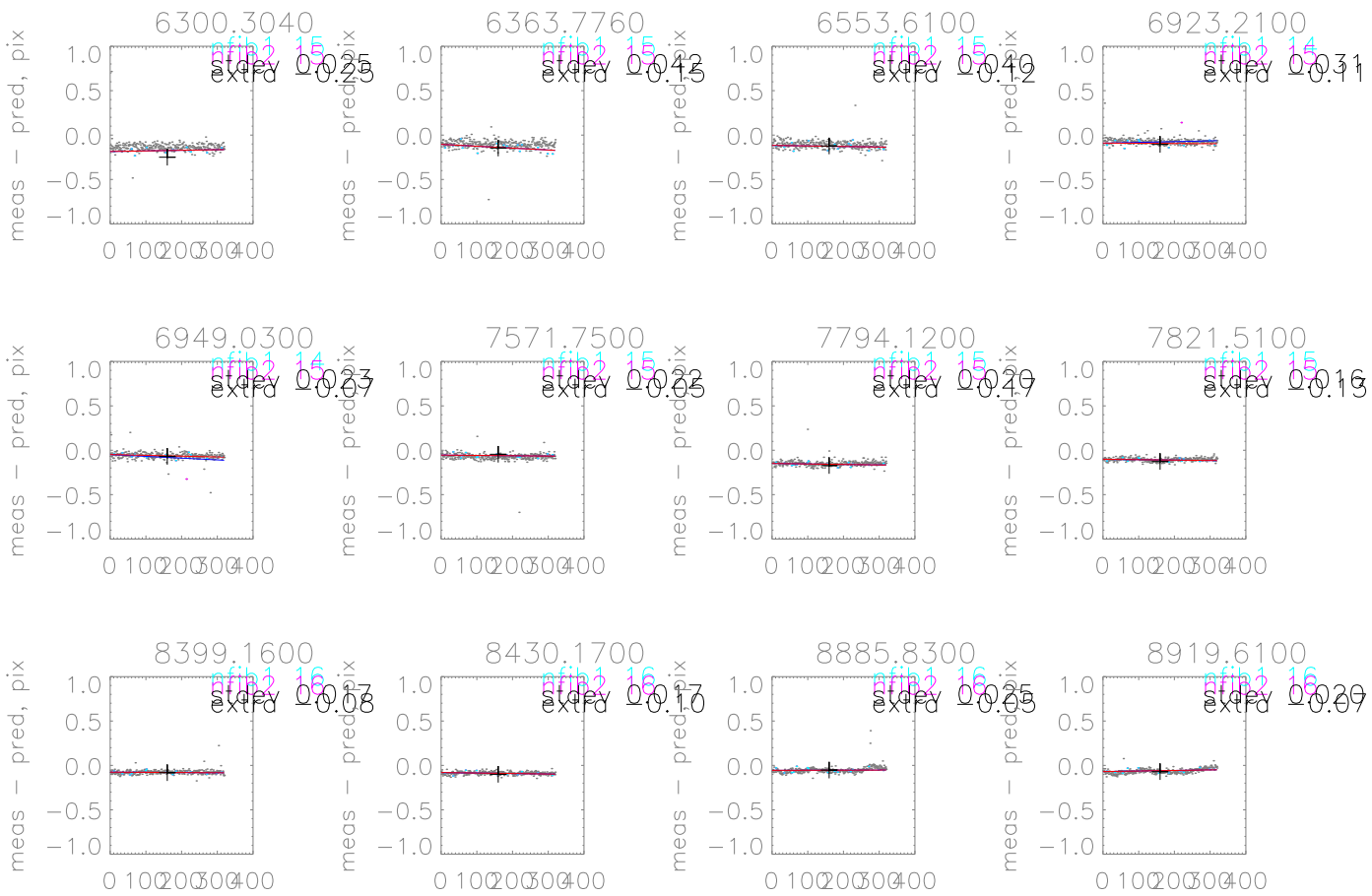

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

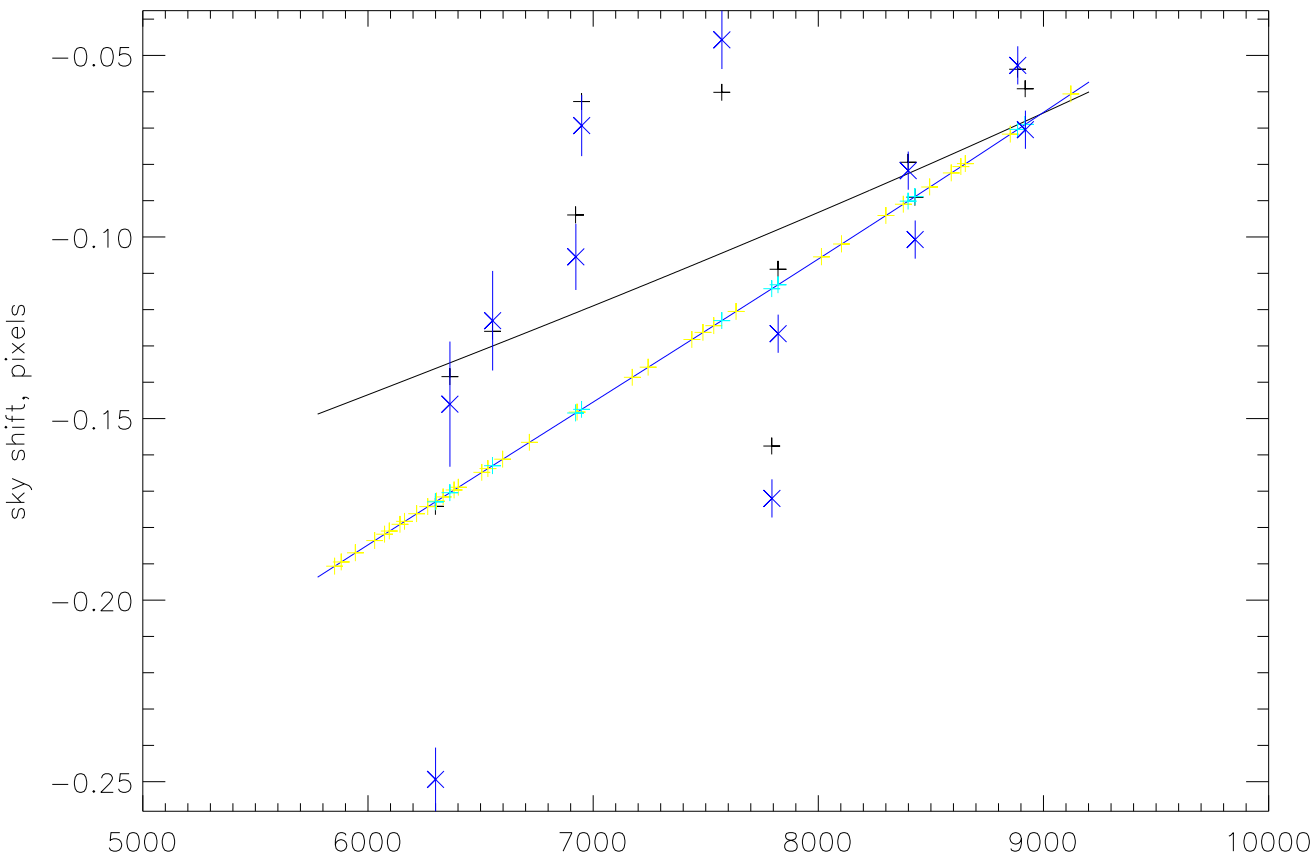

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

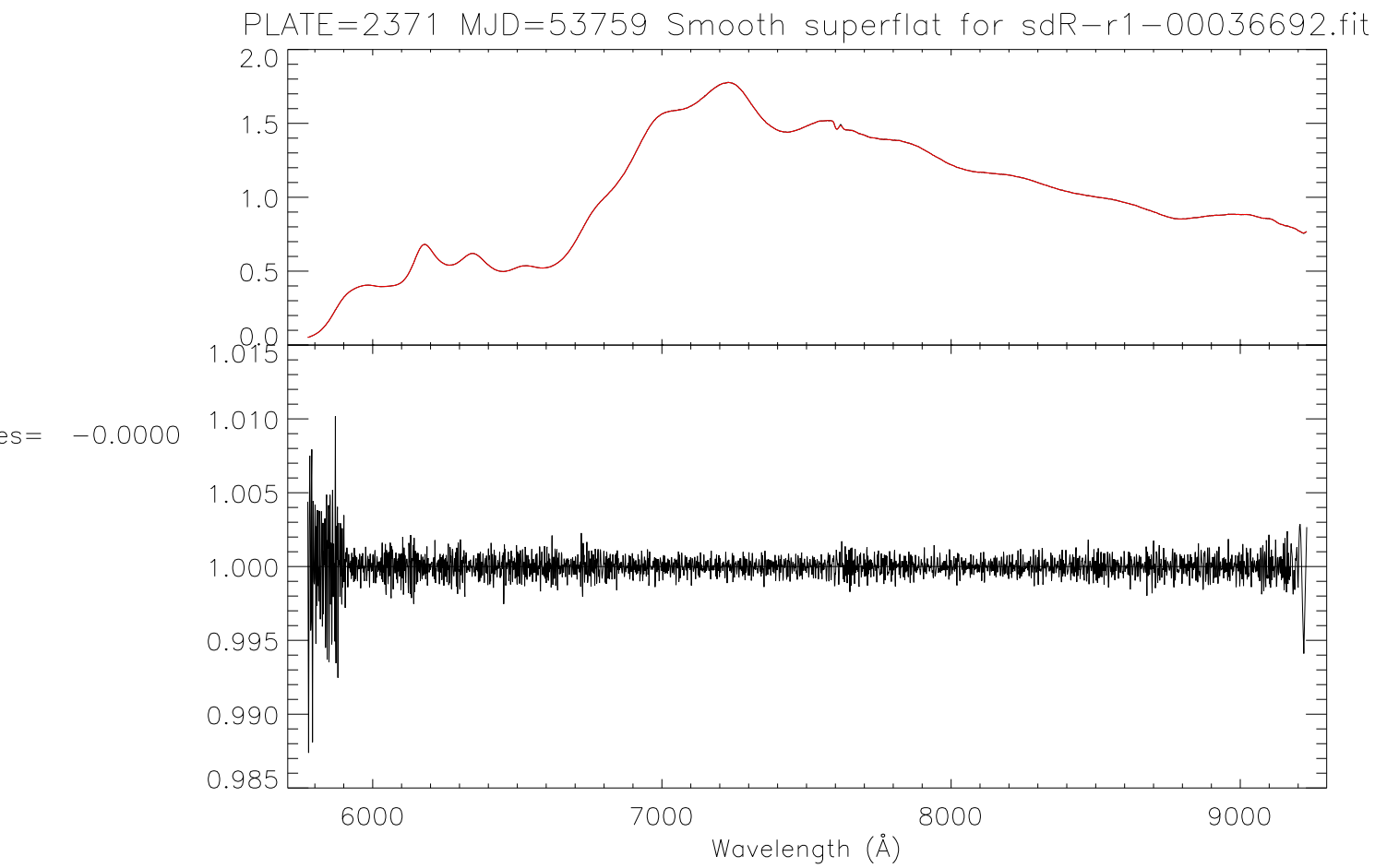

8430.1700
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

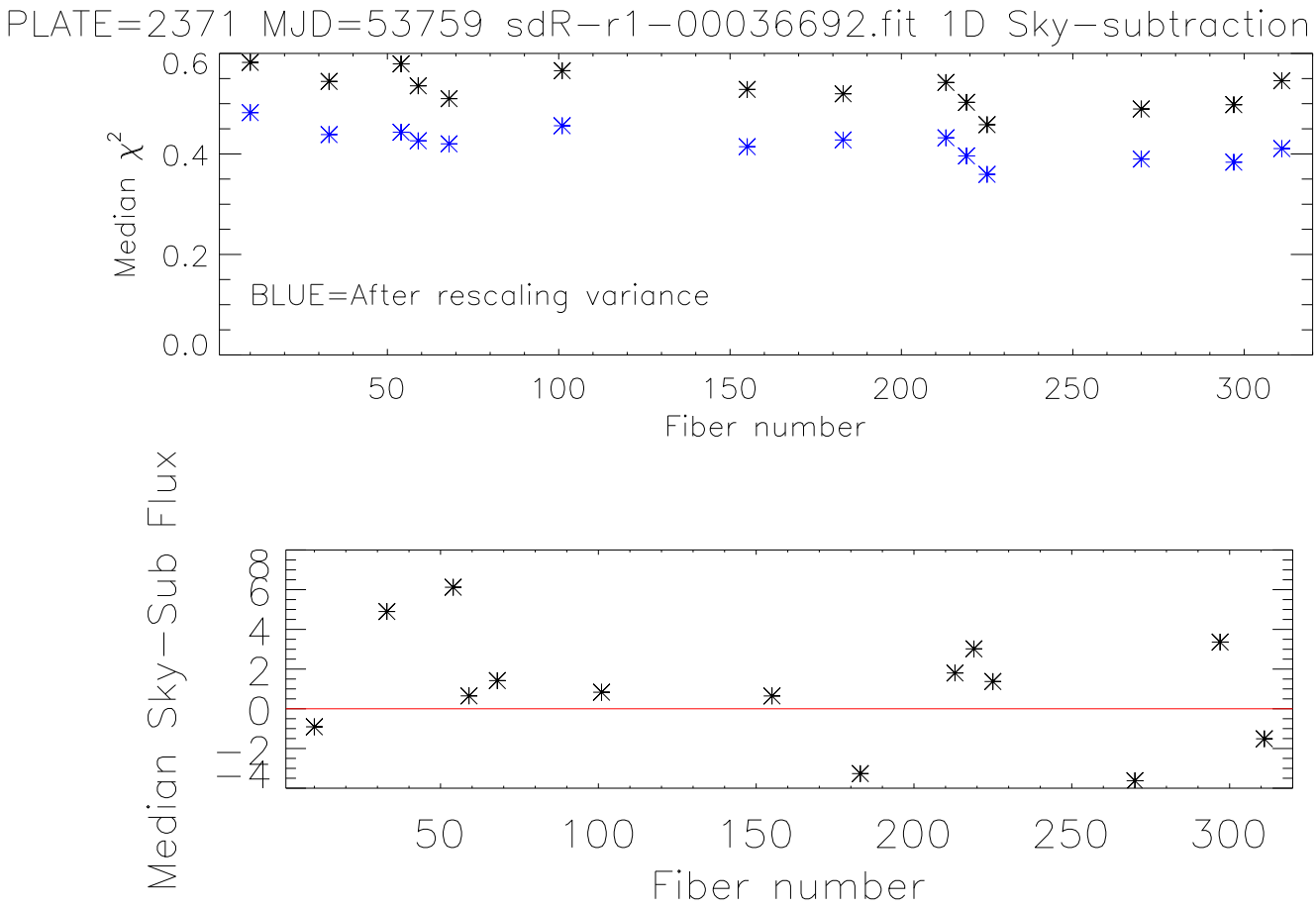

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


6300.3040
mfhi1 15
mfhi2 15
stdev 0.025
extra 0.25
6363.7760
mfhi1 15
mfhi2 15
stdev 0.042
extra 0.15
6553.6100
mfhi1 15
mfhi2 15
stdev 0.040
extra 0.12
6923.2100
mfhi1 14
mfhi2 15
stdev 0.031
extra 0.11
6949.0300
mfhi1 14
mfhi2 15
stdev 0.033
extra 0.07
7571.7500
mfhi1 15
mfhi2 15
stdev 0.032
extra 0.05
7794.1200
mfhi1 15
mfhi2 15
stdev 0.020
extra 0.47
7821.5100
mfhi1 15
mfhi2 15
stdev 0.016
extra 0.13
8399.1600
mfhi1 16
mfhi2 16
stdev 0.017
extra 0.08
8430.1700
mfhi1 16
mfhi2 16
stdev 0.017
extra 0.10
8885.8300
mfhi1 16
mfhi2 16
stdev 0.025
extra 0.05
8919.6100
mfhi1 16
mfhi2 16
stdev 0.020
extra 0.07
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

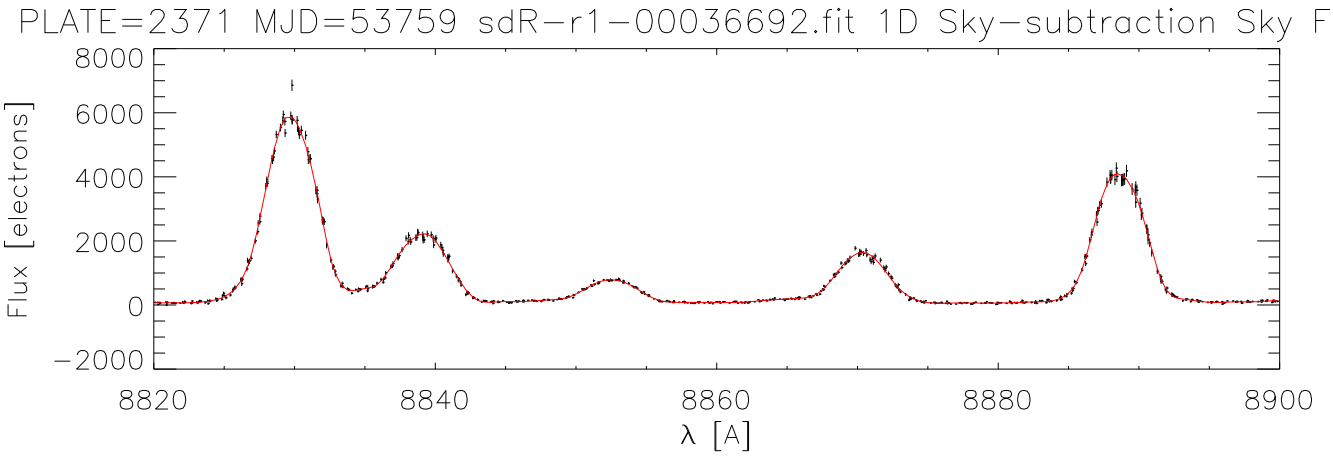

−0.05
−0.10
−0.15
−0.20
−0.25
sky shift, pixels
5000
6000
7000
8000
9000
10000

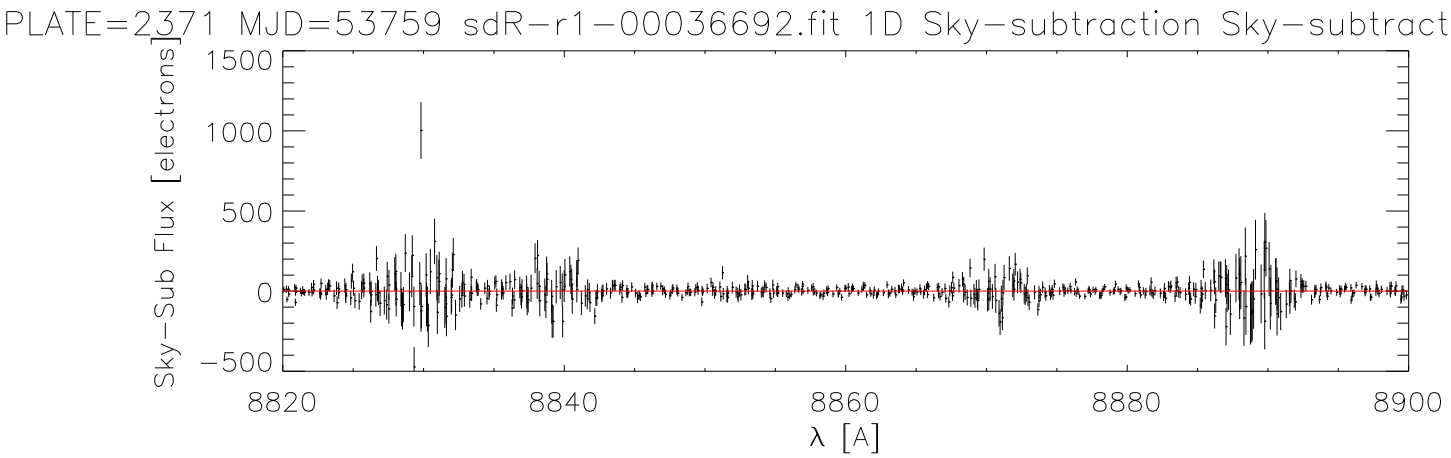

PLATE=2371 MJD=53759 Smooth superflat for sdR-r1-00036692.fit
2.0
1.5
1.0
0.5
0.0
1.015
1.010
1.005
1.000
0.995
0.990
0.985
6000
7000
8000
9000
Wavelength (Å)

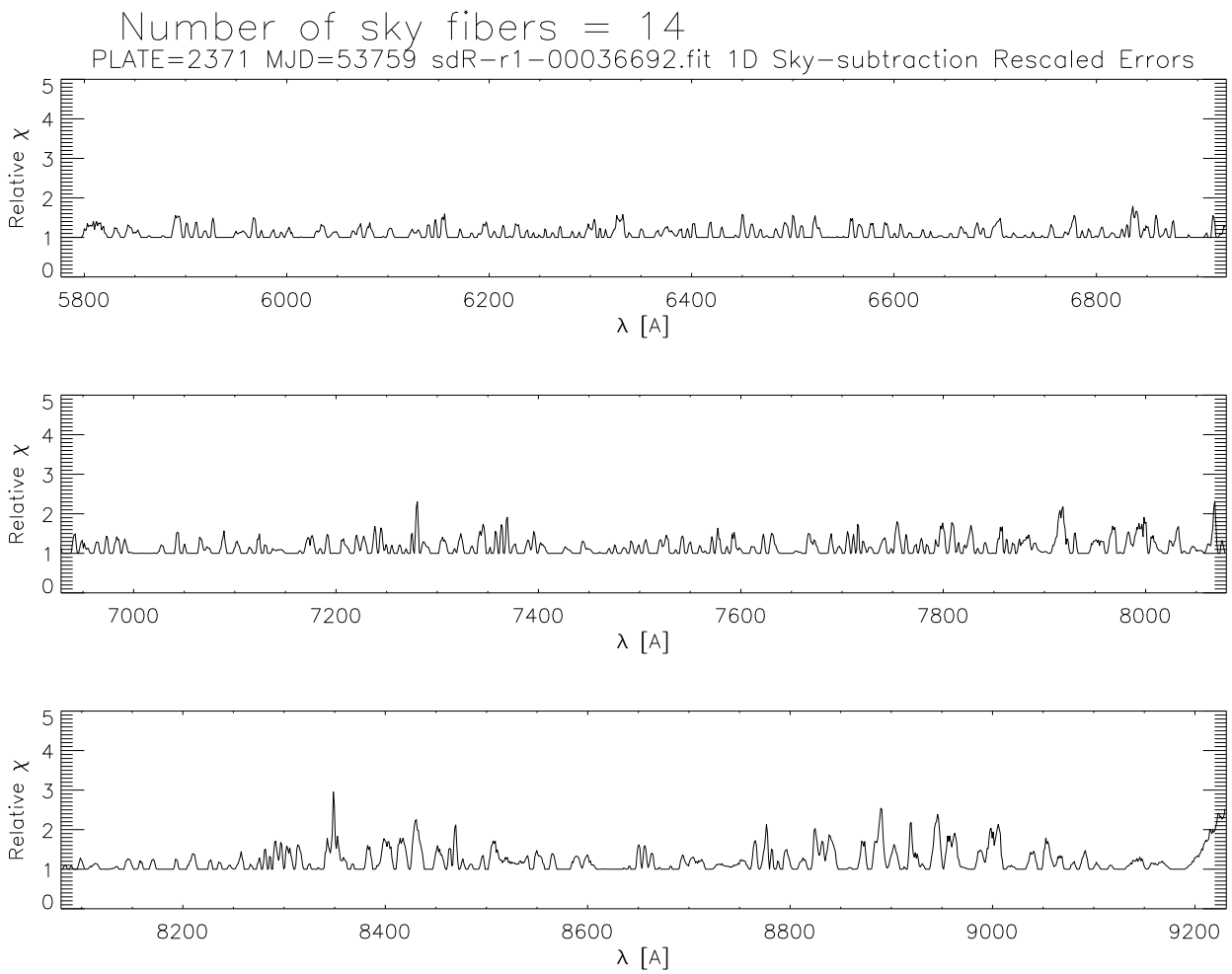
es= −0.0000

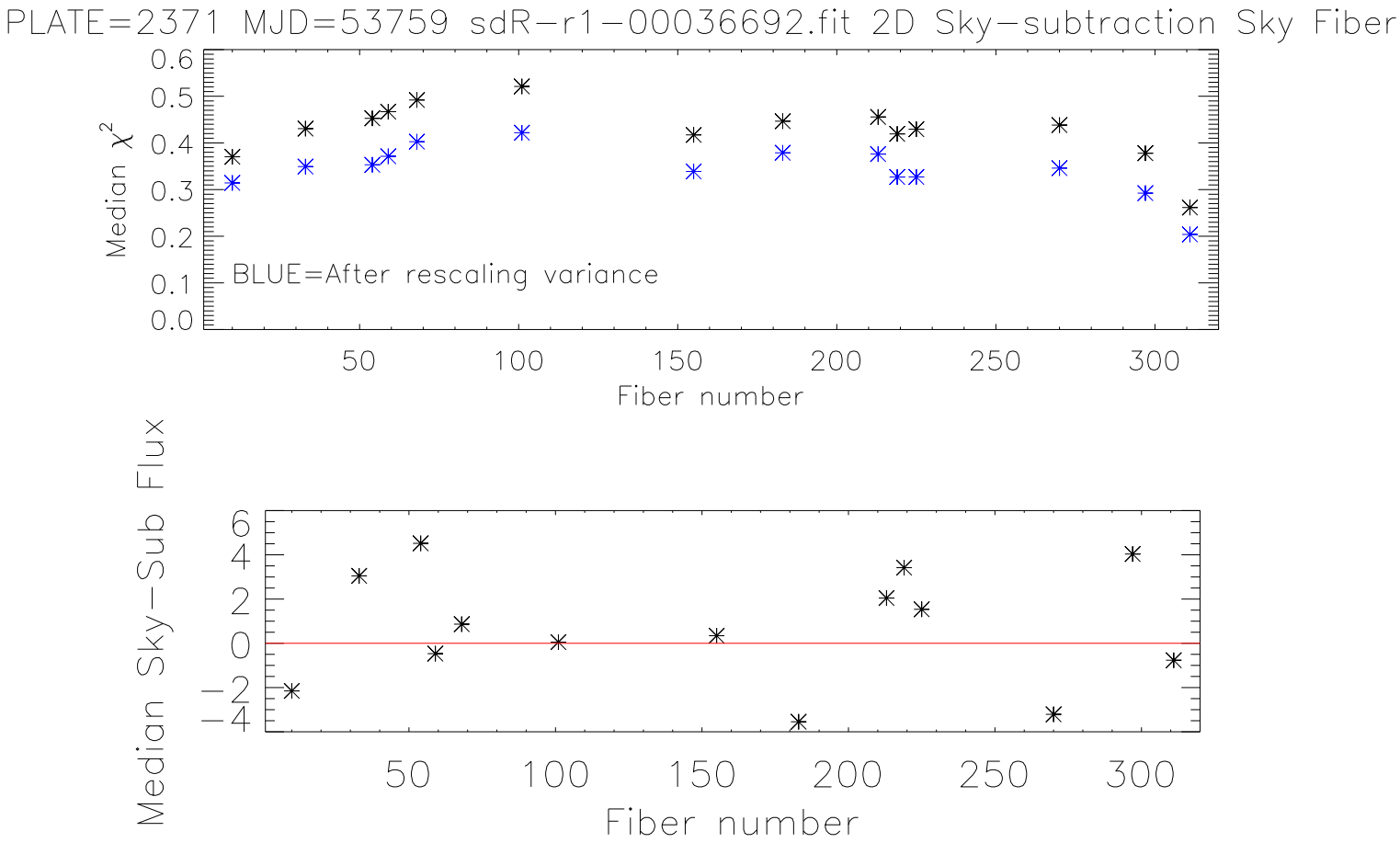

PLATE=2371 MJD=53759 sdR-r1-00036692.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

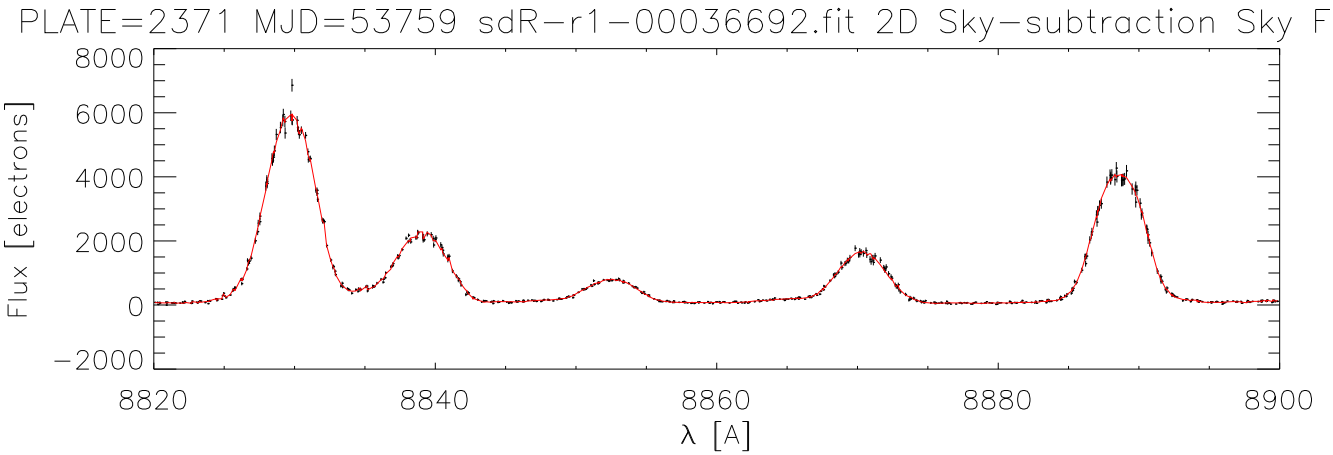
Median Sky-Sub Flux
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

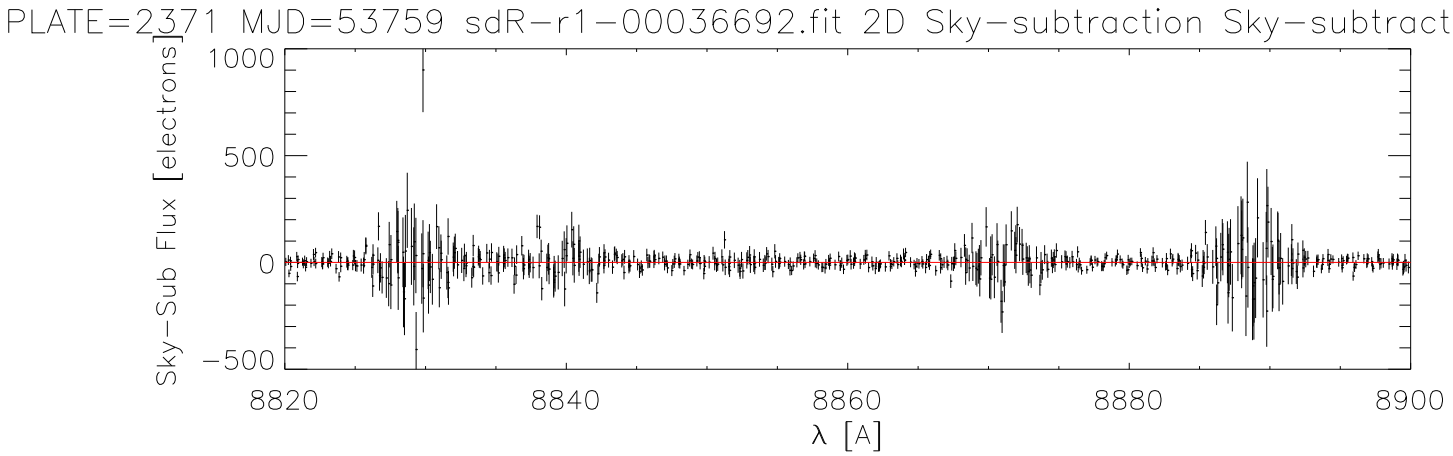

PLATE=2371 MJD=53759 sdR-r1-00036692.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
−2000
8820
8840
8860
8880
8900
λ [A]

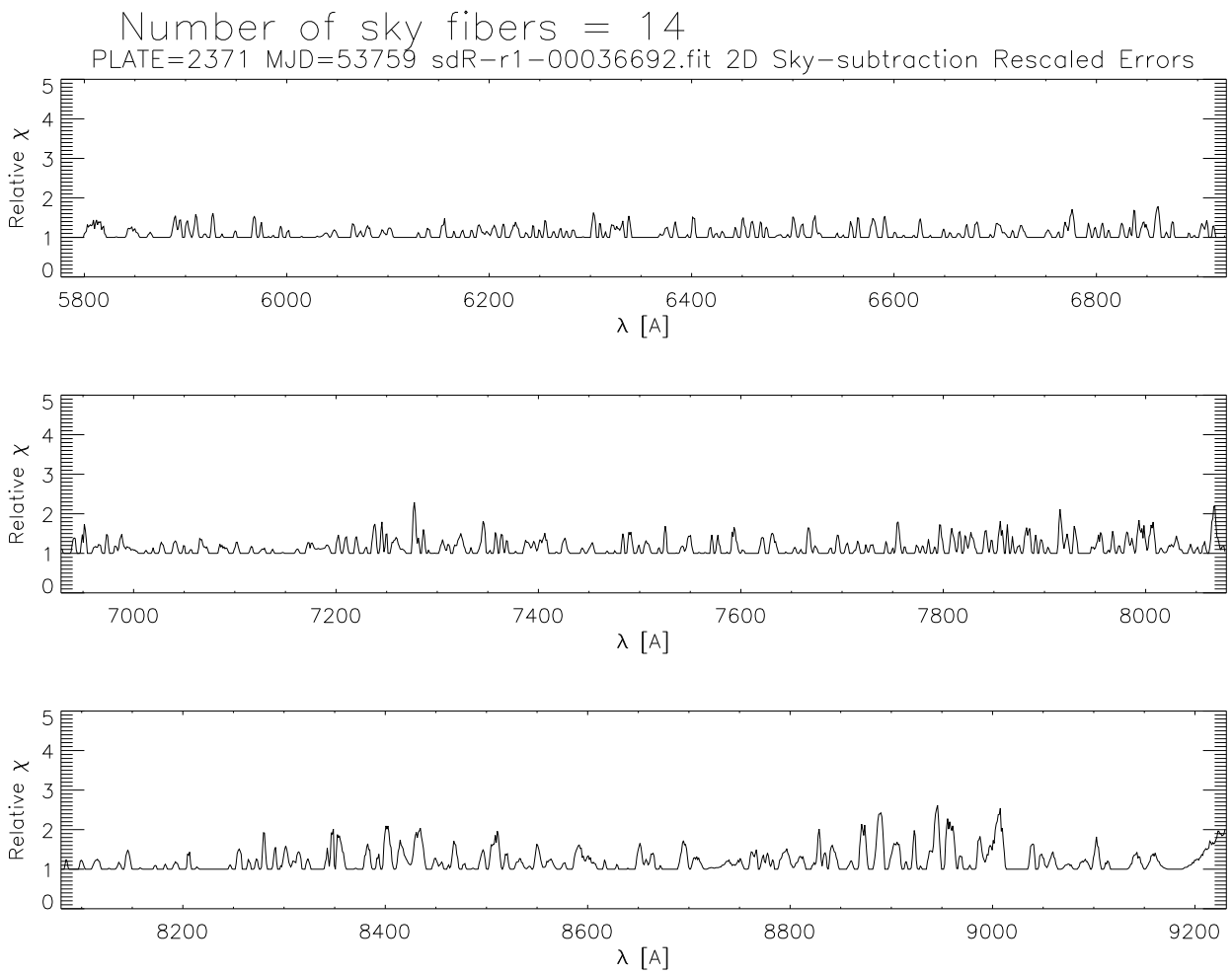

PLATE=2371 MJD=53759 sdR-r1-00036692.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
−500
8820
8840
8860
8880
8900
λ [A]

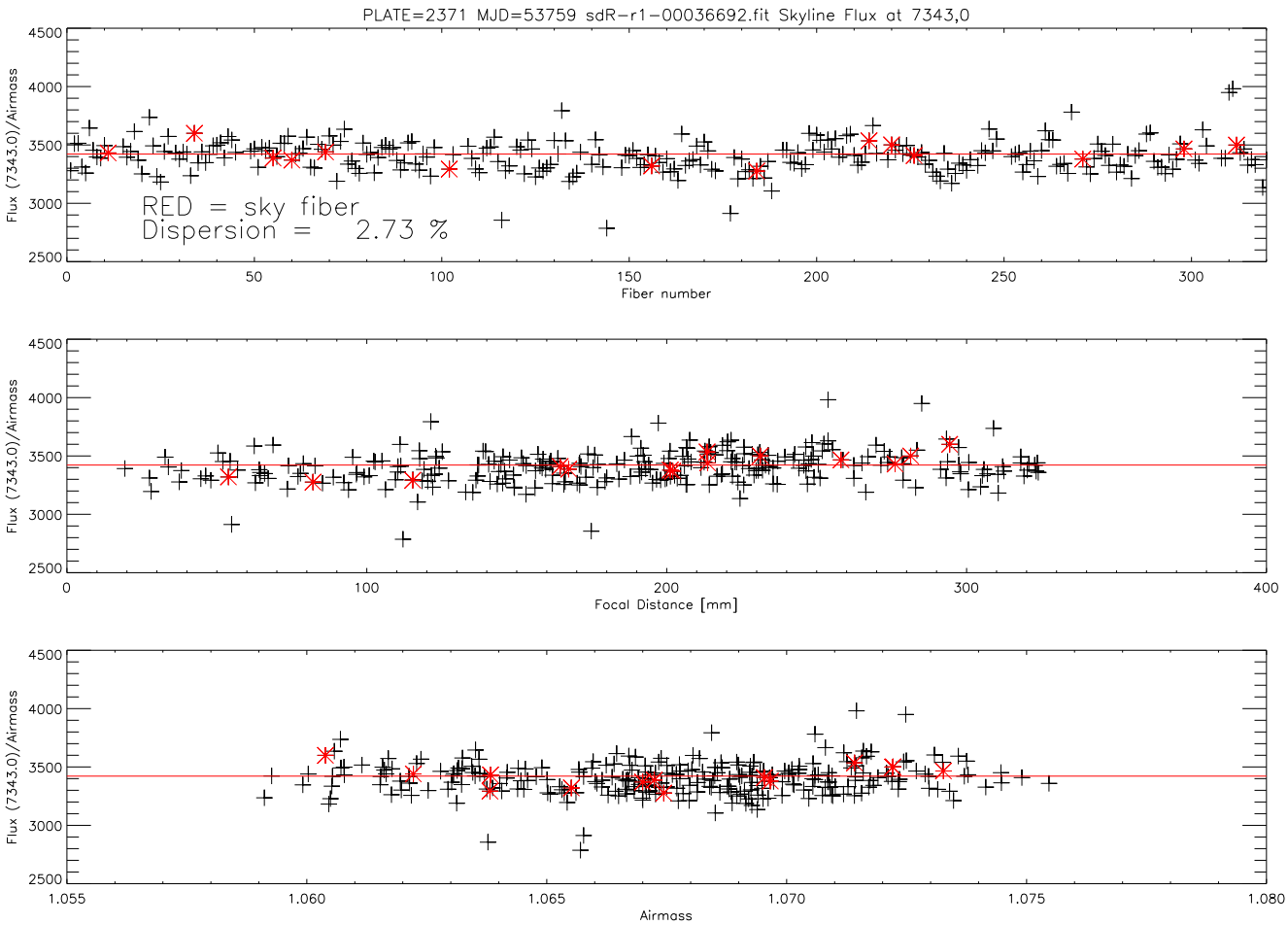

Number of sky fibers = 14
PLATE=2371 MJD=53759 sdR-r1-00036692.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

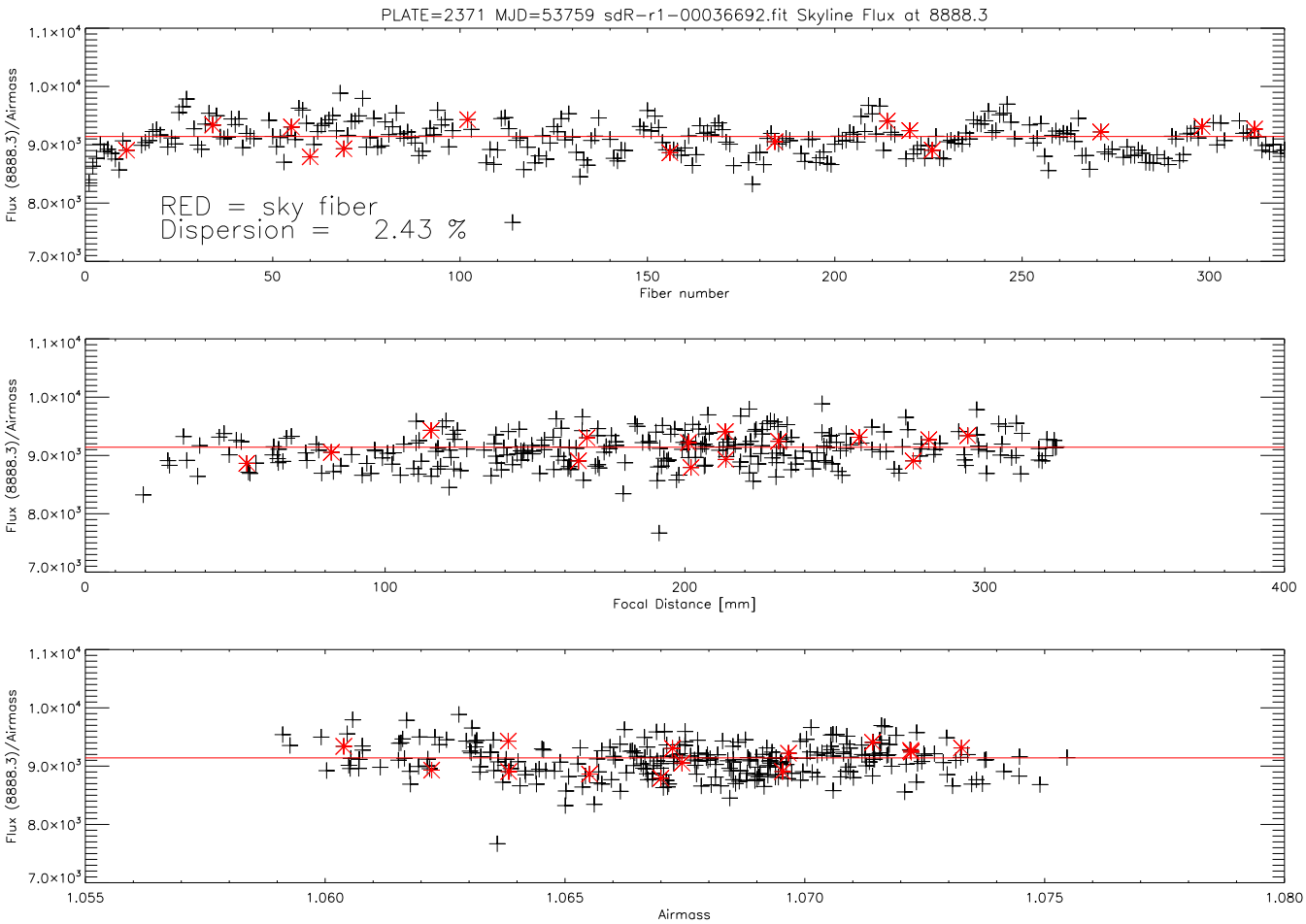

PLATE=2371 MJD=53759 sdR-r1-00036692.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

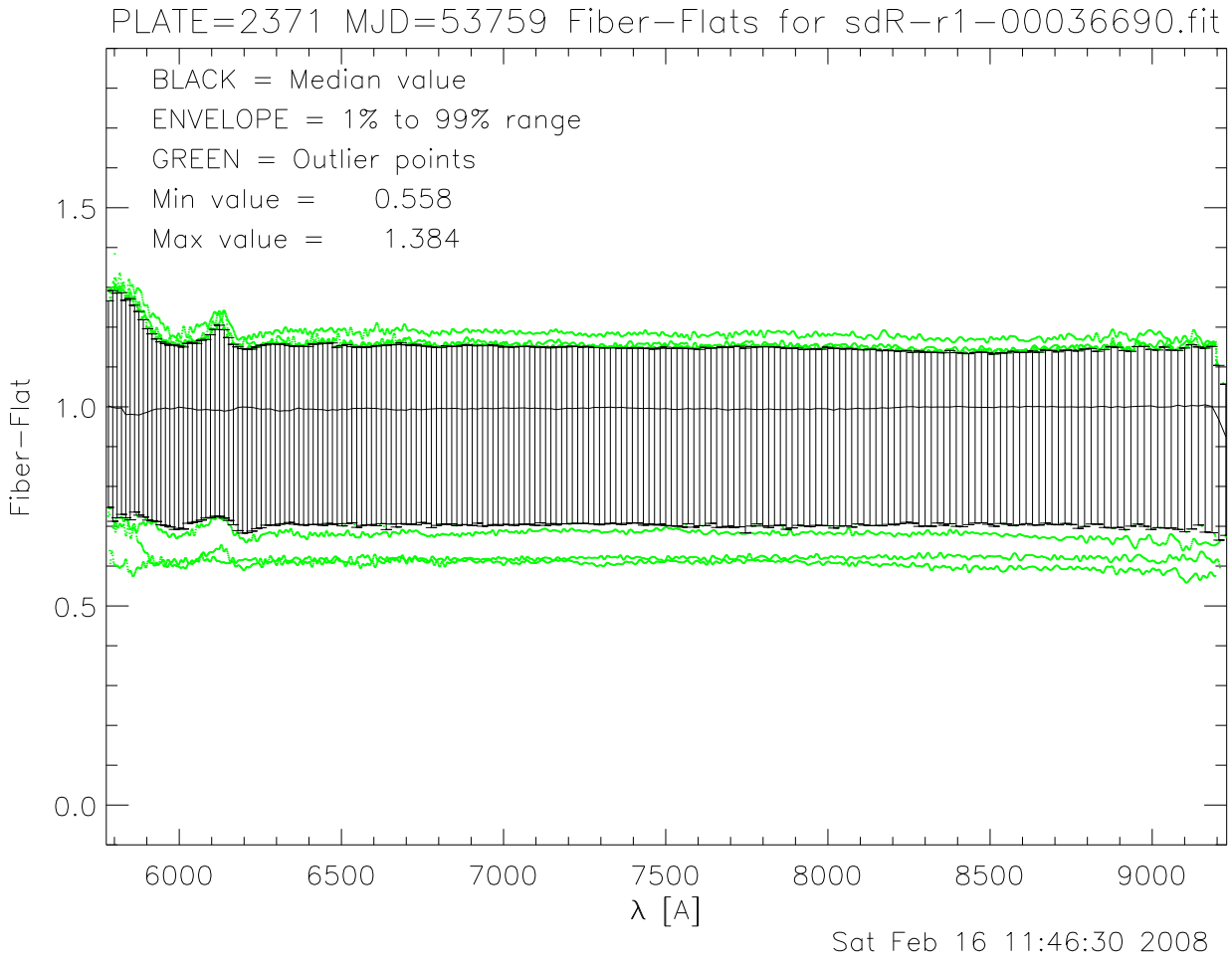

PLATE=2371 MJD=53759 sdR-r1-00036692.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
-2000
8820
8840
8860
8880
8900
λ [A]

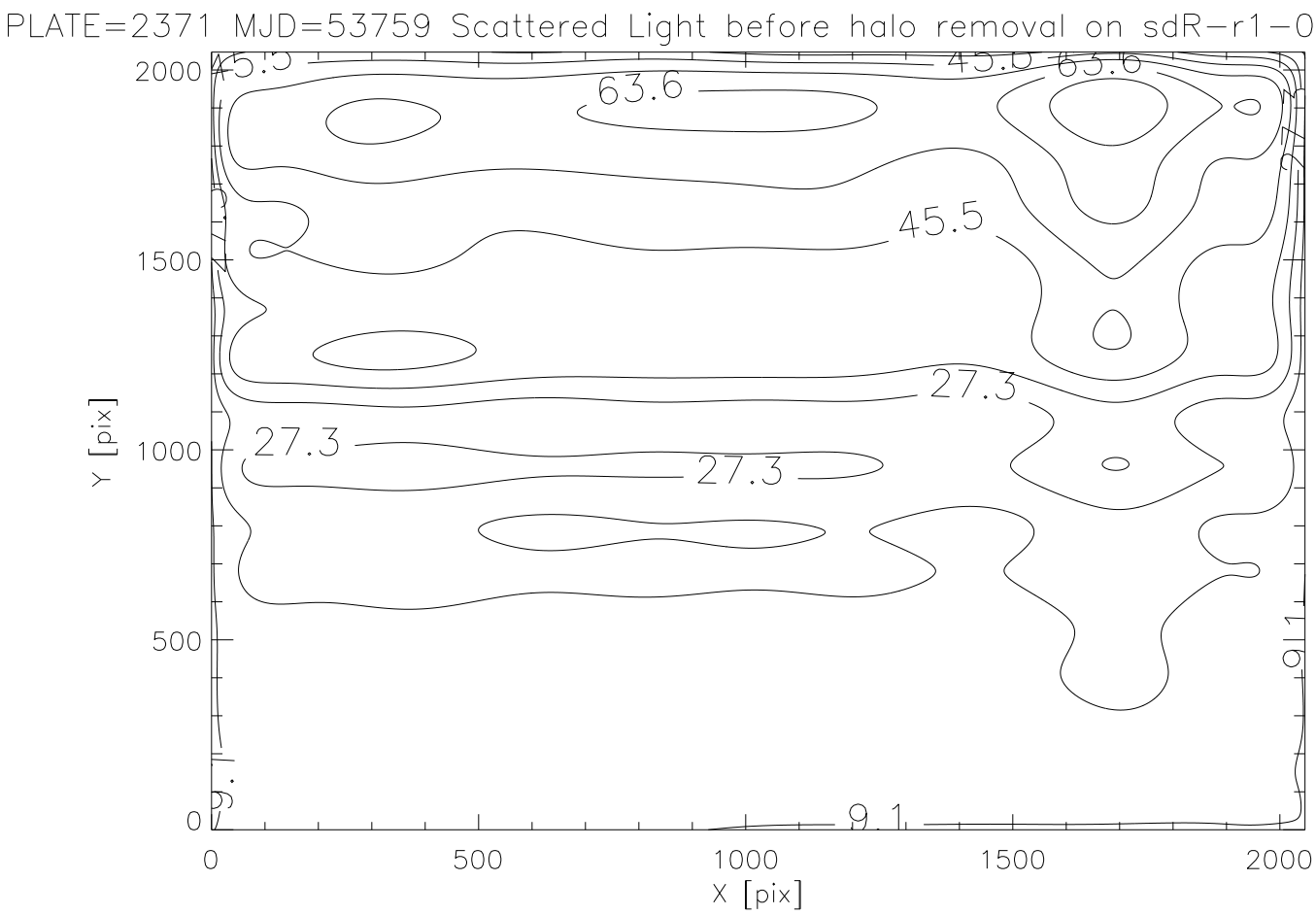

PLATE=2371 MJD=53759 sdR-r1-00036692.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

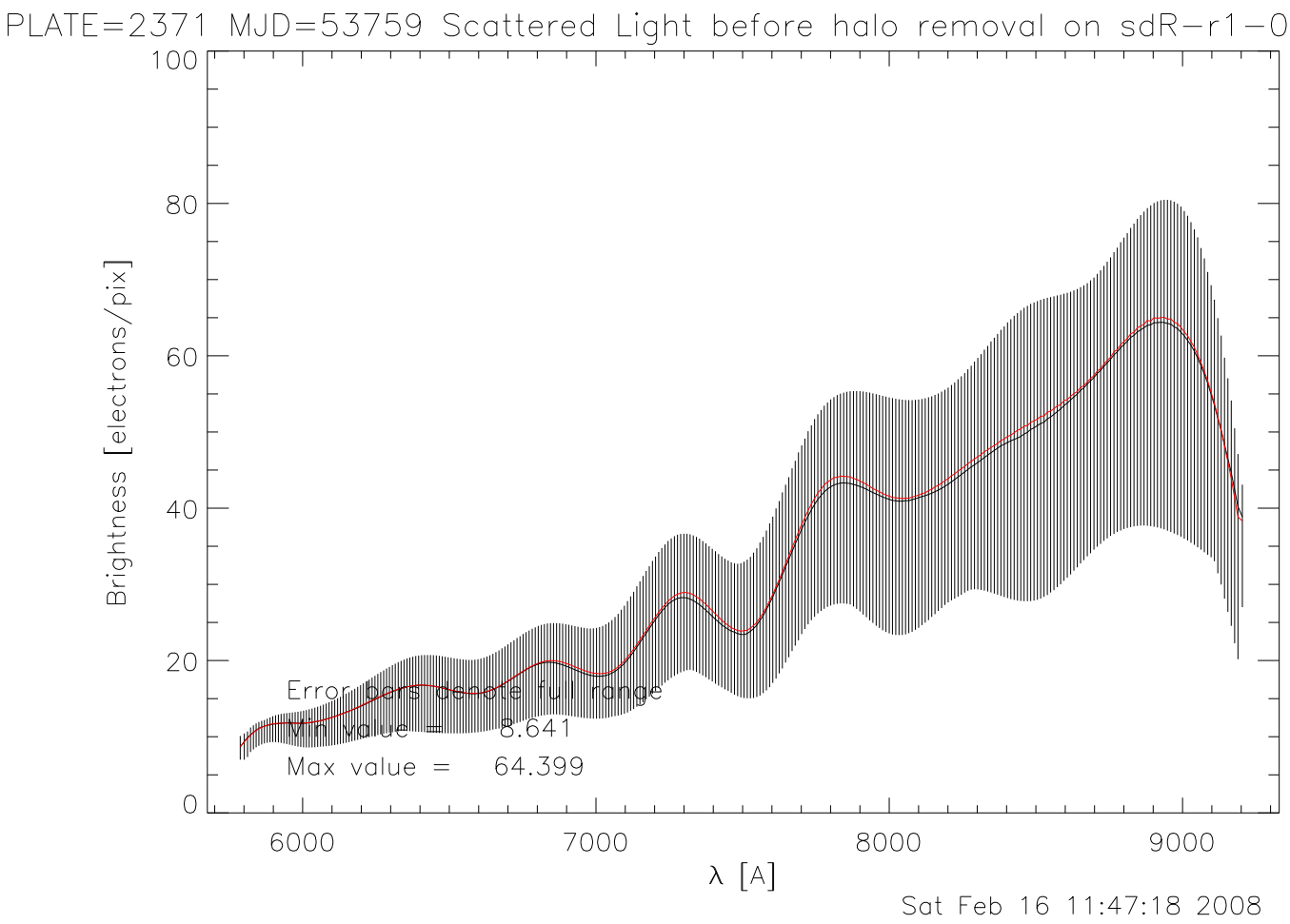

Number of sky fibers = 14
PLATE=2371 MJD=53759 sdR-r1-00036692.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

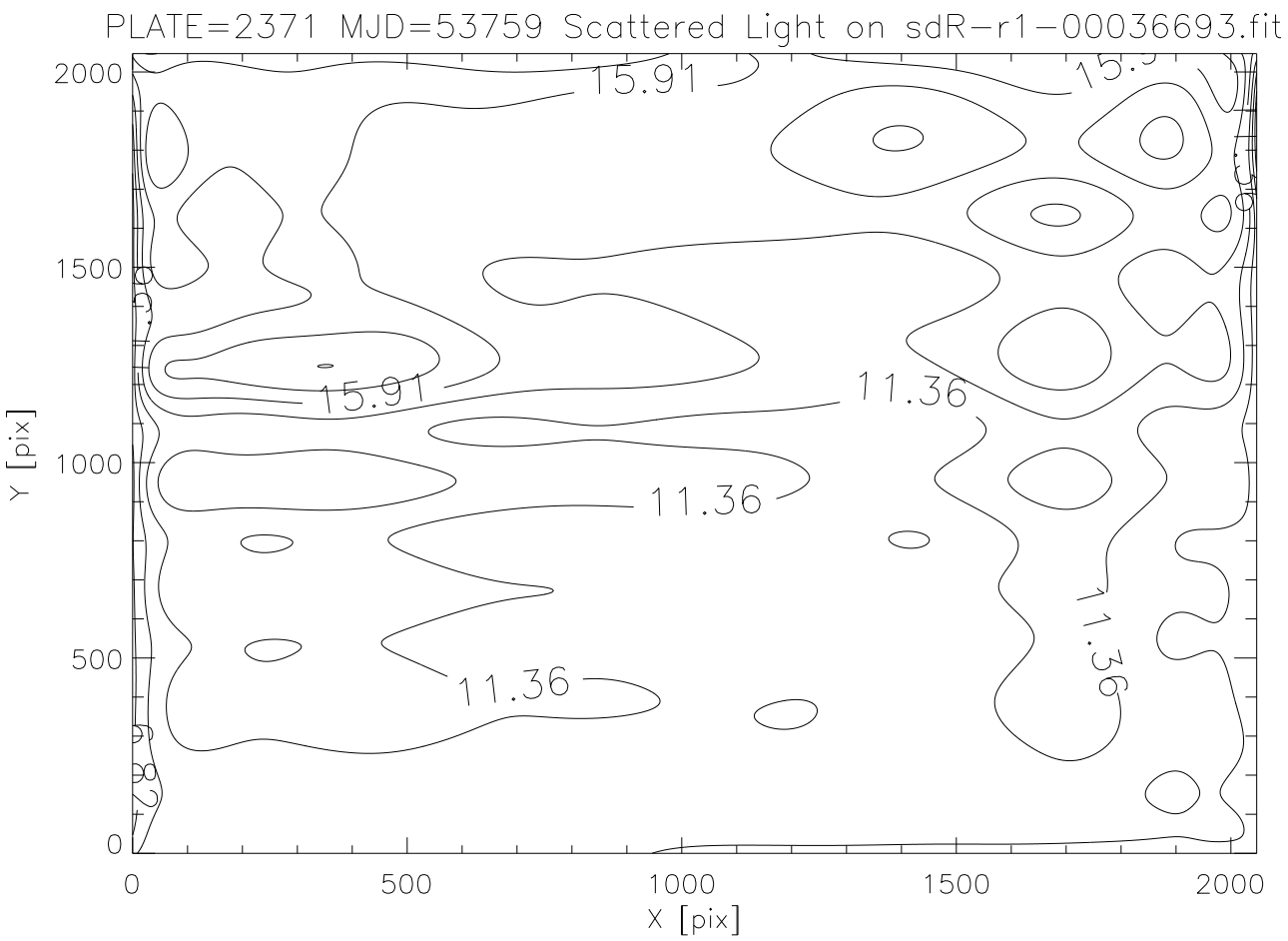

PLATE=2371 MJD=53759 sdR-r1-00036692.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.73 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

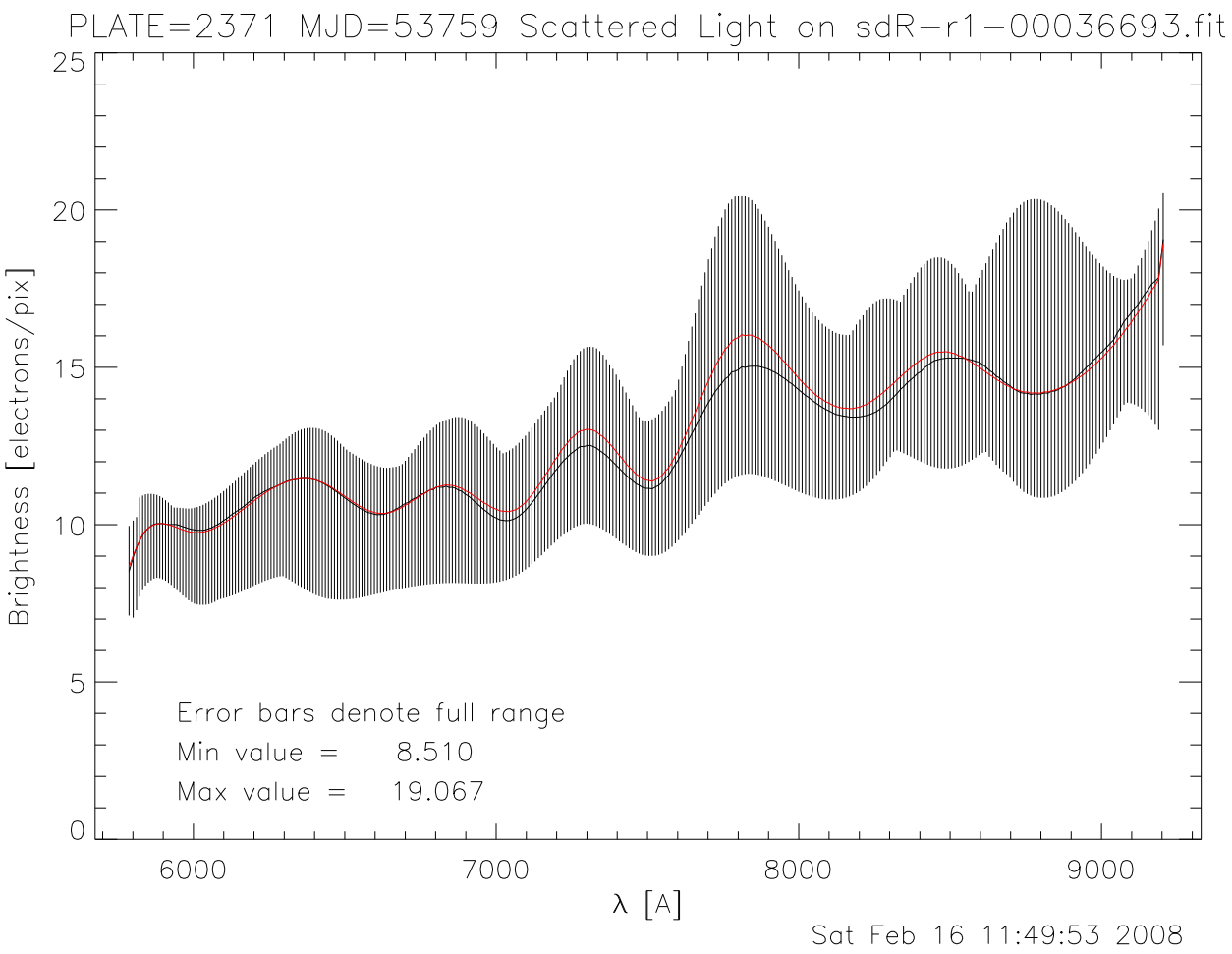

PLATE=2371 MJD=53759 sdR-r1-00036692.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.43 %
Fiber number
Focal Distance [mm]
Airmass

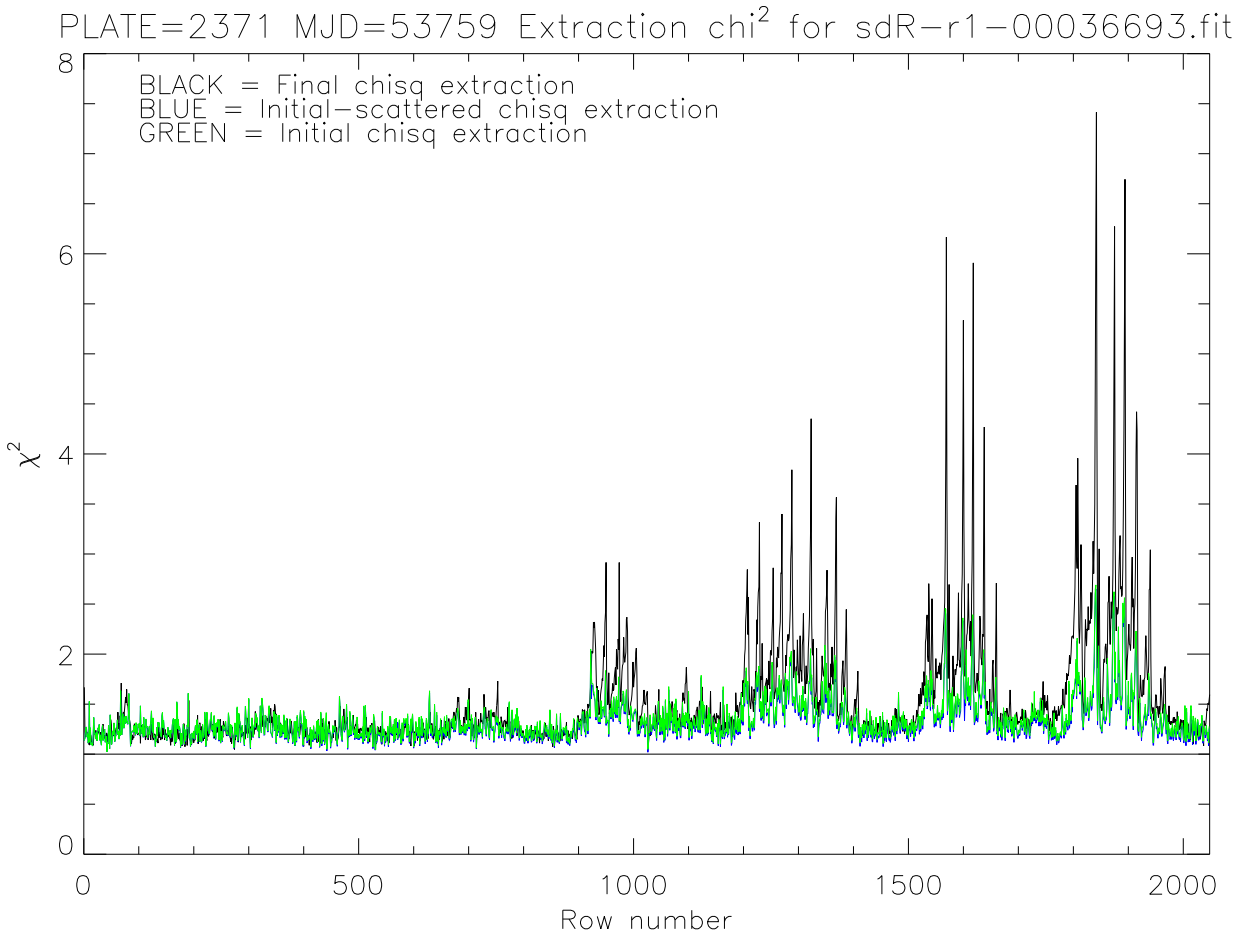

PLATE=2371 MJD=53759 Fiber−Flats for sdR−r1−00036690.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.558
Max value = 1.384
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sat Feb 16 11:46:30 2008

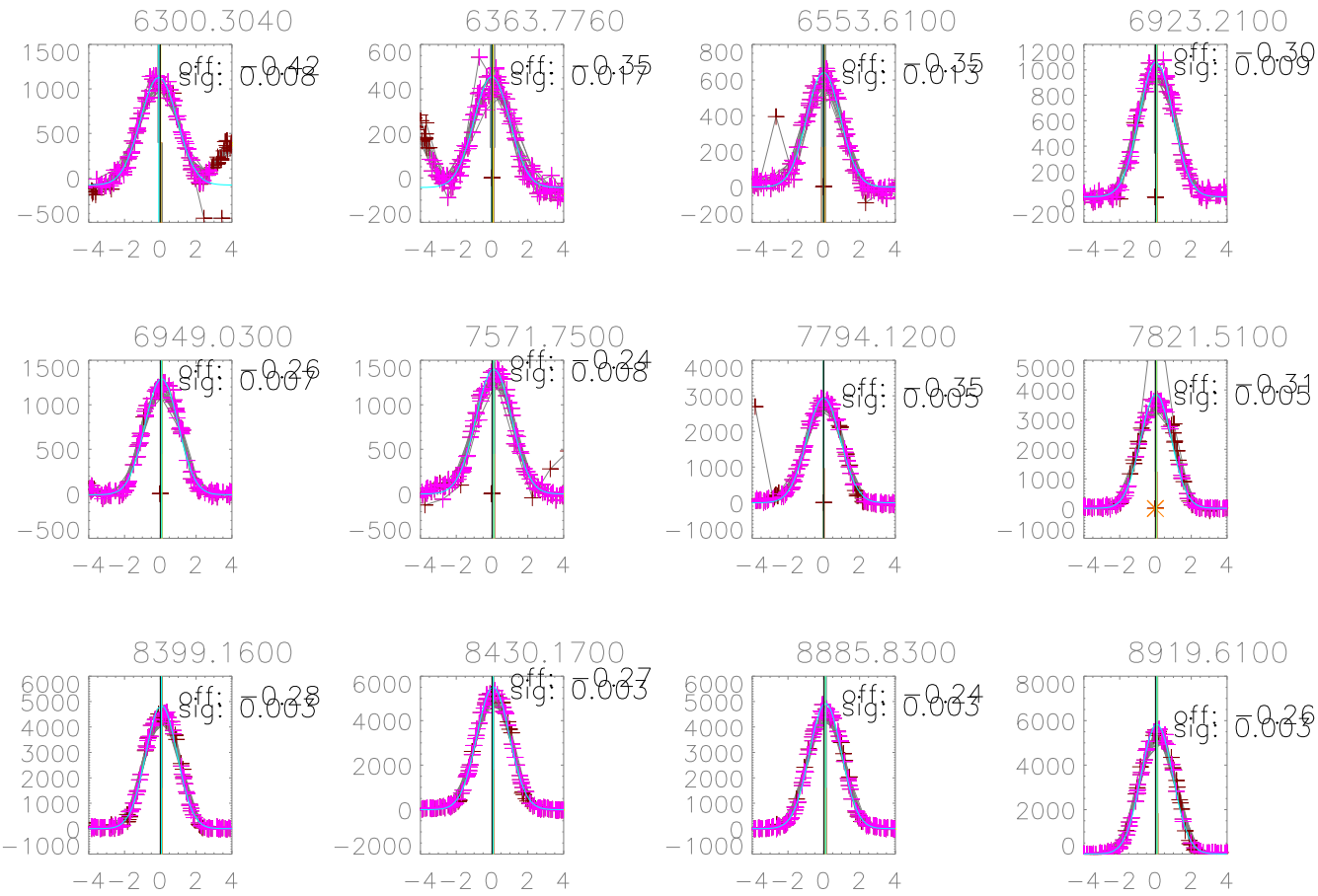

PLATE=2371 MJD=53759 Scattered Light before halo removal on sdR-r1-00036693.fi
63.6
45.5
27.3
27.3
27.3
9.1
Y [pix]
X [pix]
0
500
1000
1500
2000

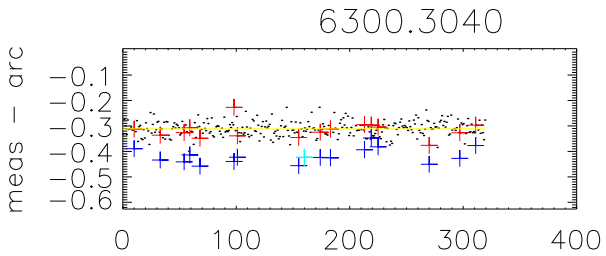

PLATE=2371 MJD=53759 Scattered Light before halo removal on sdR-r1-00036693.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 8.641
Max value = 64.399
Sat Feb 16 11:47:18 2008

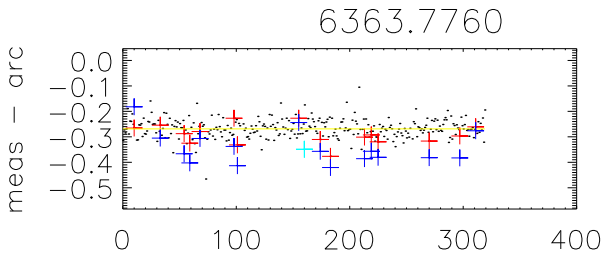

PLATE=2371 MJD=53759 Scattered Light on sdR−r1−00036693.fit
15.91
11.36
Y [pix]
X [pix]
0
500
1000
1500
2000

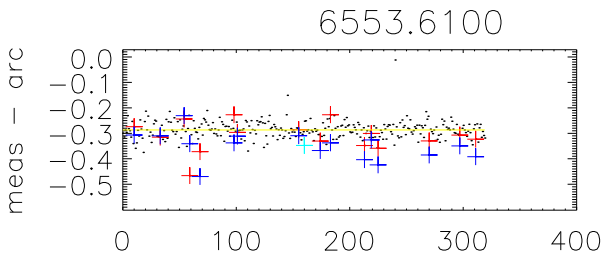

PLATE=2371 MJD=53759 Scattered Light on sdR-r1-00036693.fit
Brightness [electrons/pix]
25
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 8.510
Max value = 19.067
Sat Feb 16 11:49:53 2008

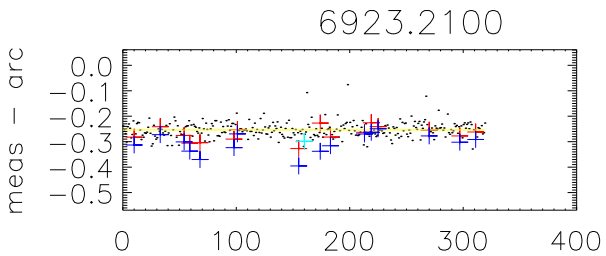

PLATE=2371 MJD=53759 Extraction chi^2 for sdR−r1−00036693.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

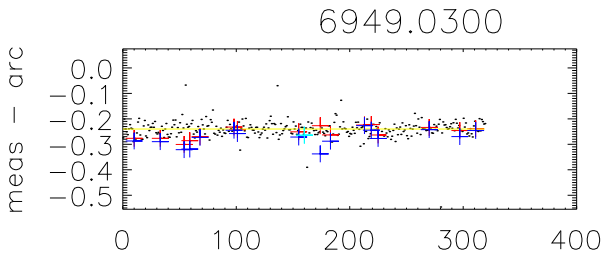

6300.3040
off: −0.42
sig: 0.008
6363.7760
off: −0.35
sig: 0.017
6553.6100
off: −0.35
sig: 0.013
6923.2100
off: −0.30
sig: 0.009
6949.0300
off: −0.26
sig: 0.007
7571.7500
off: −0.24
sig: 0.008
7794.1200
off: −0.35
sig: 0.005
7821.5100
off: −0.31
sig: 0.005
8399.1600
off: −0.28
sig: 0.003
8430.1700
off: −0.27
sig: 0.003
8885.8300
off: −0.24
sig: 0.003
8919.6100
off: −0.26
sig: 0.003

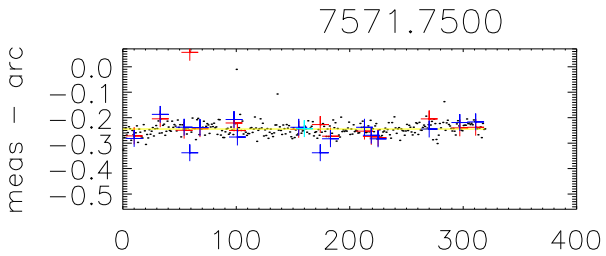

6300.3040
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

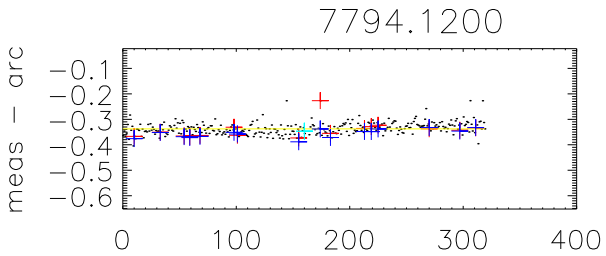

6363.7760
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

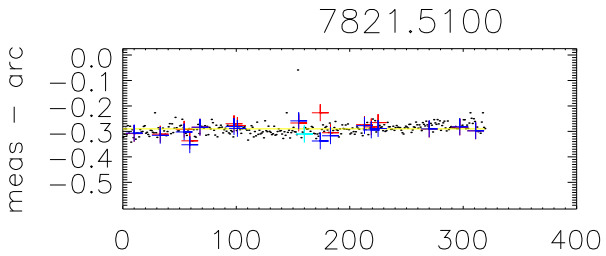

6553.6100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

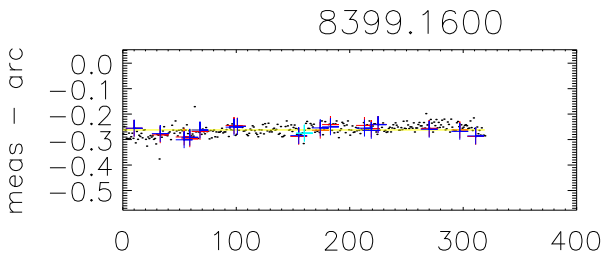

6923.2100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

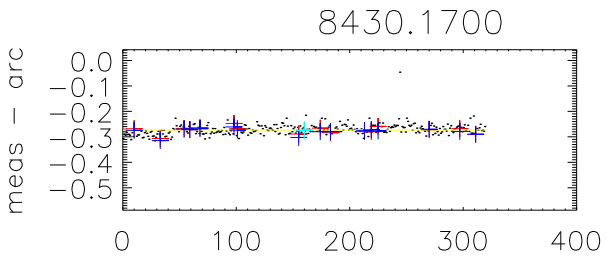

6949.0300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

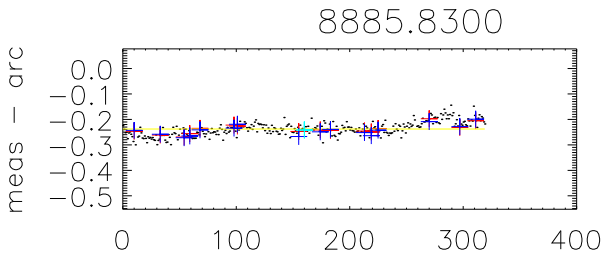

7571.7500
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

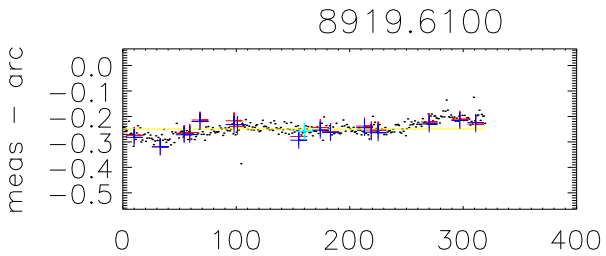

7794.1200
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

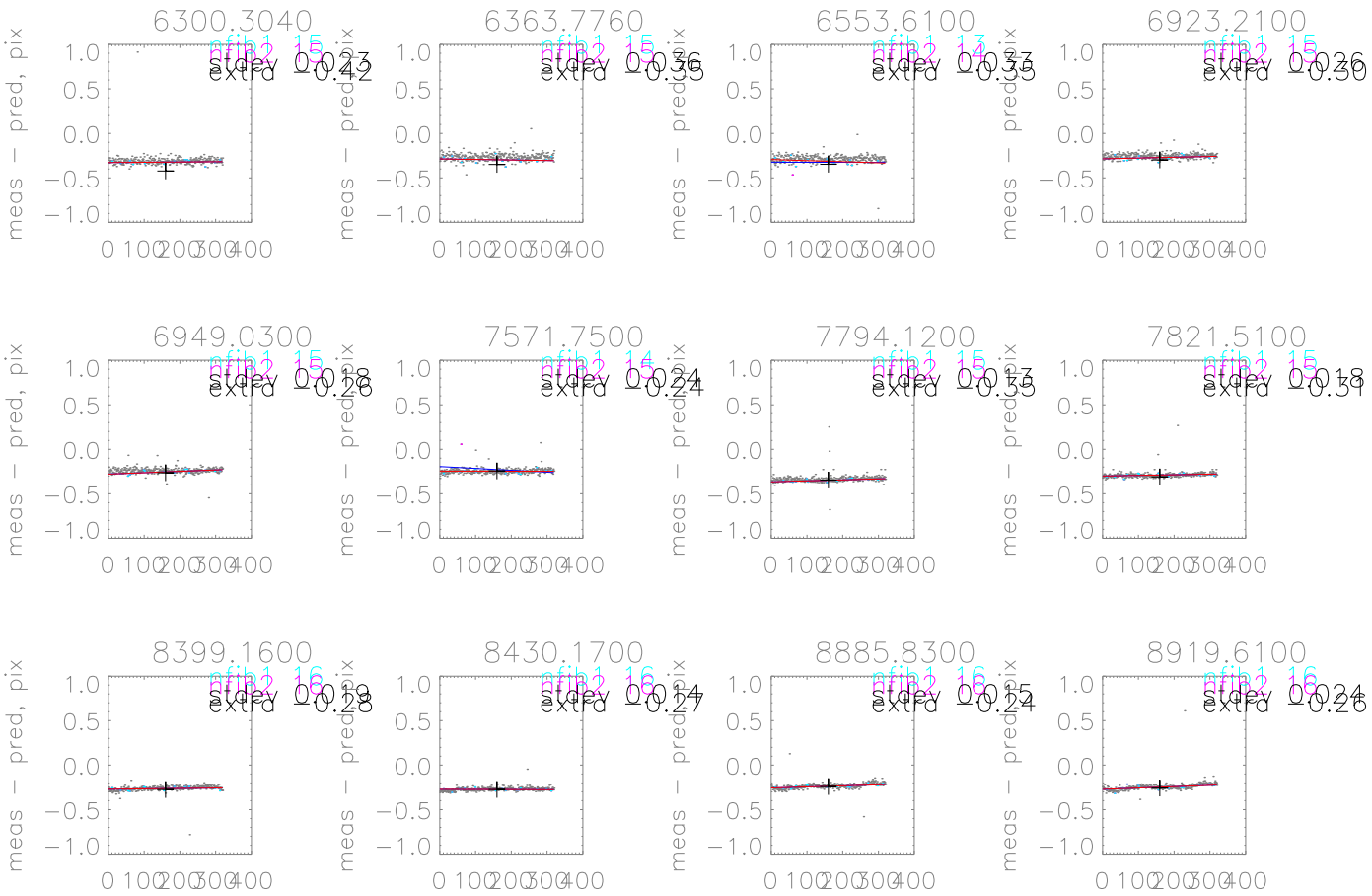

7821.5100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

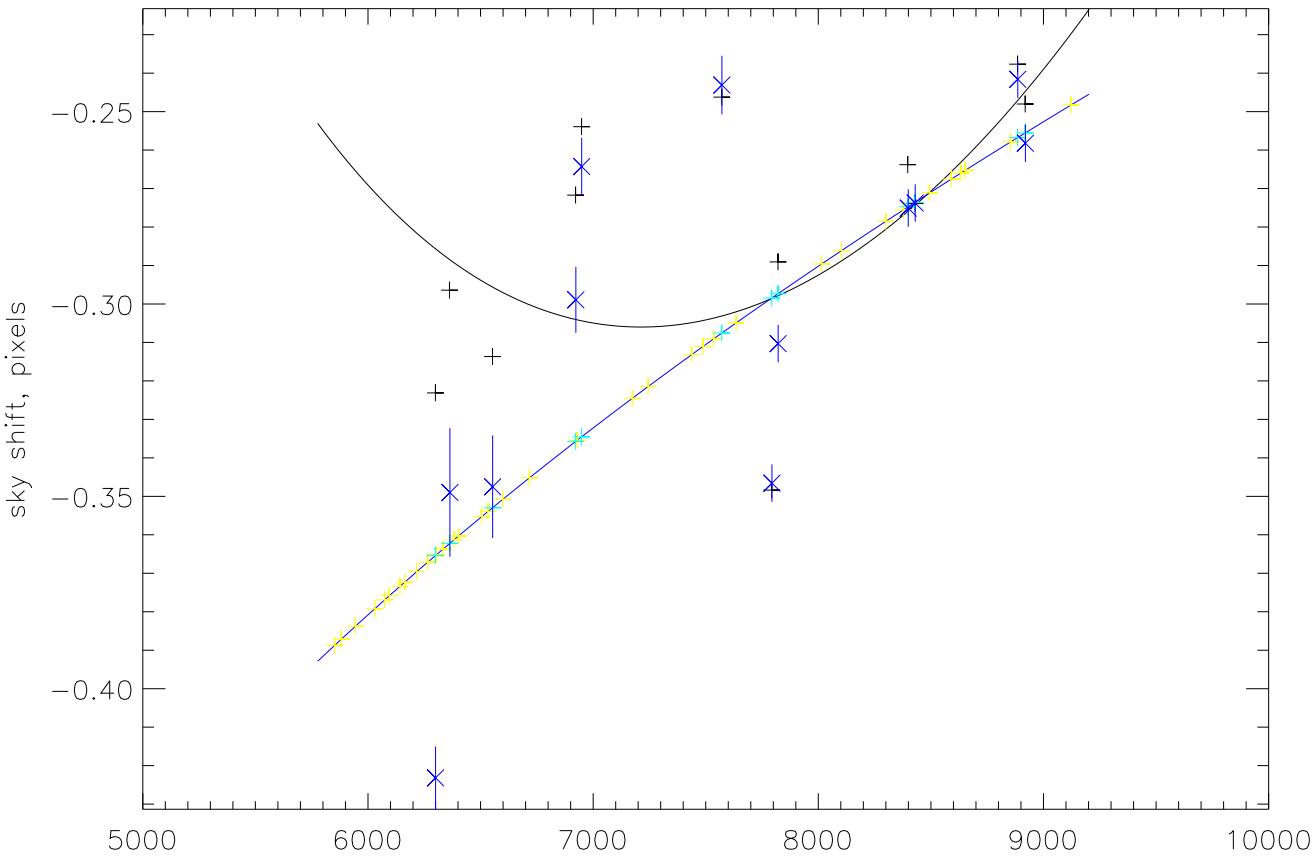

8399.1600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

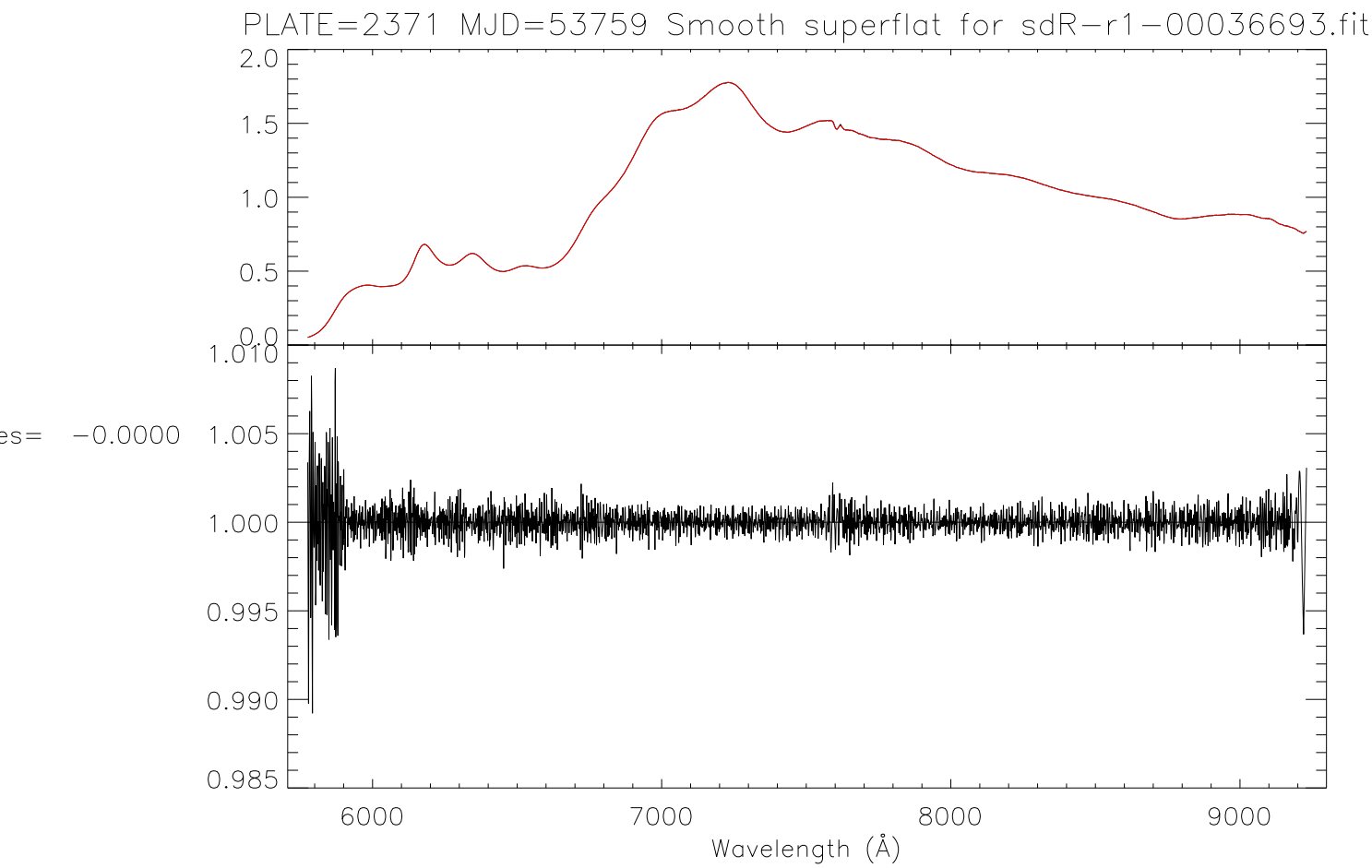

8430.1700
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

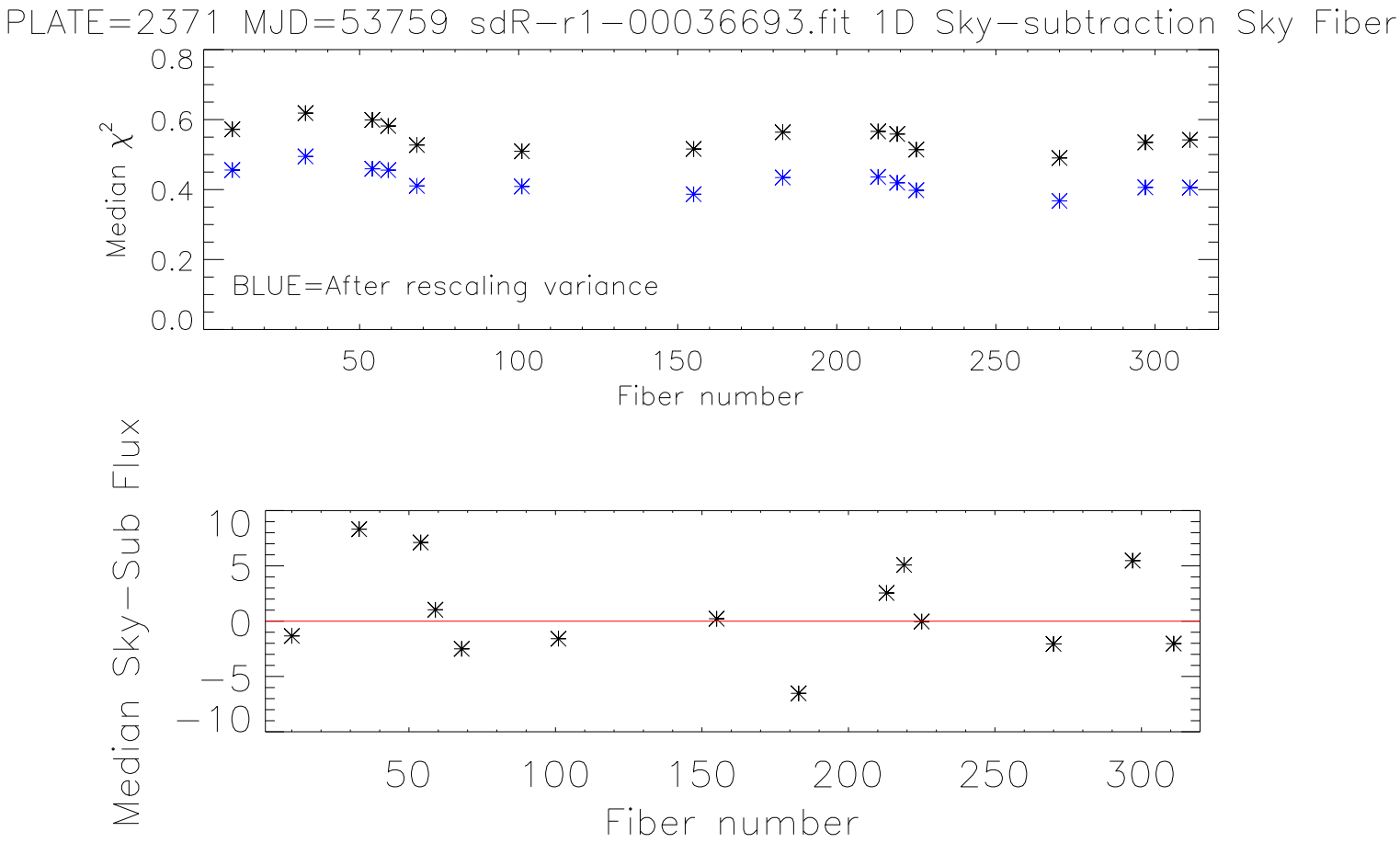

8885.8300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

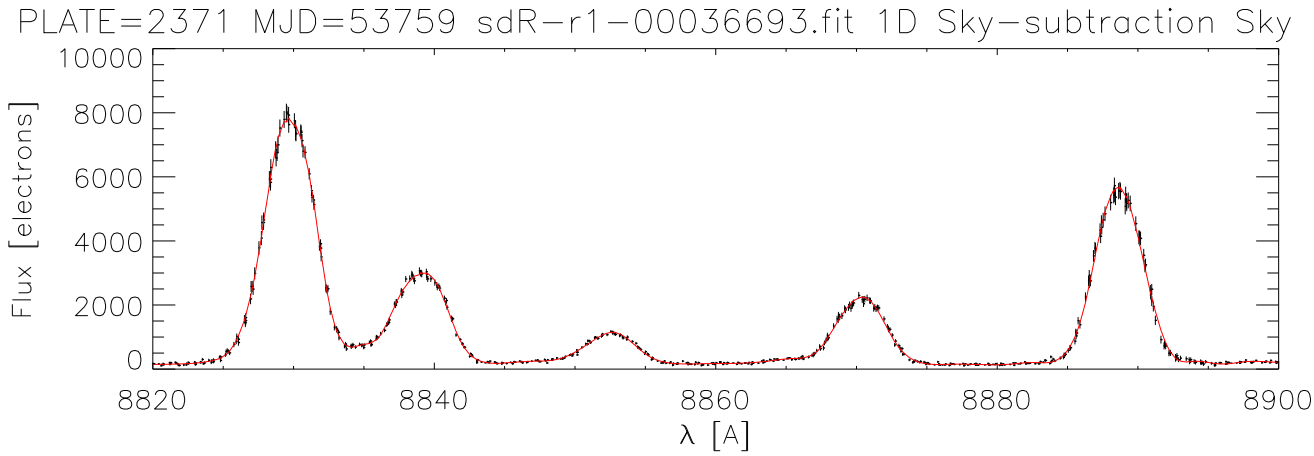

8919.6100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

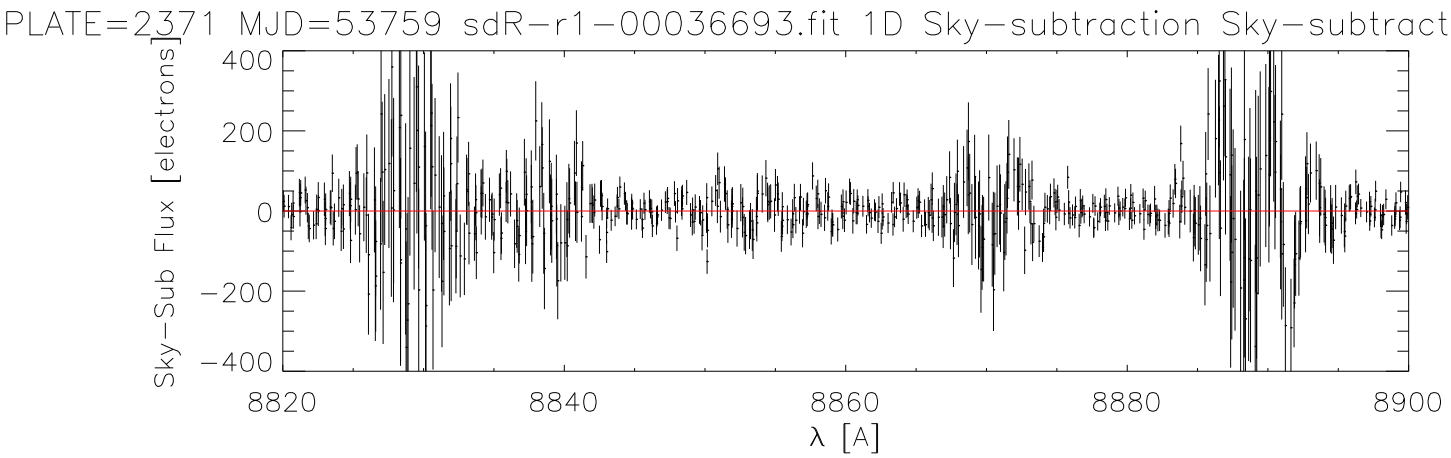

6300.3040
mfhi1 15
mfhi2 15
stdev 0.23
extra 0.42
6363.7760
mfhi1 15
mfhi2 15
stdev 0.36
extra 0.35
6553.6100
mfhi1 13
mfhi2 14
stdev 0.33
extra 0.35
6923.2100
mfhi1 15
mfhi2 15
stdev 0.26
extra 0.30
6949.0300
mfhi1 15
mfhi2 15
stdev 0.28
extra 0.28
7571.7500
mfhi1 14
mfhi2 15
stdev 0.24
extra 0.24
7794.1200
mfhi1 15
mfhi2 15
stdev 0.33
extra 0.35
7821.5100
mfhi1 15
mfhi2 15
stdev 0.18
extra 0.31
8399.1600
mfhi1 16
mfhi2 16
stdev 0.19
extra 0.28
8430.1700
mfhi1 16
mfhi2 16
stdev 0.14
extra 0.27
8885.8300
mfhi1 16
mfhi2 16
stdev 0.15
extra 0.24
8919.6100
mfhi1 16
mfhi2 16
stdev 0.24
extra 0.26
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

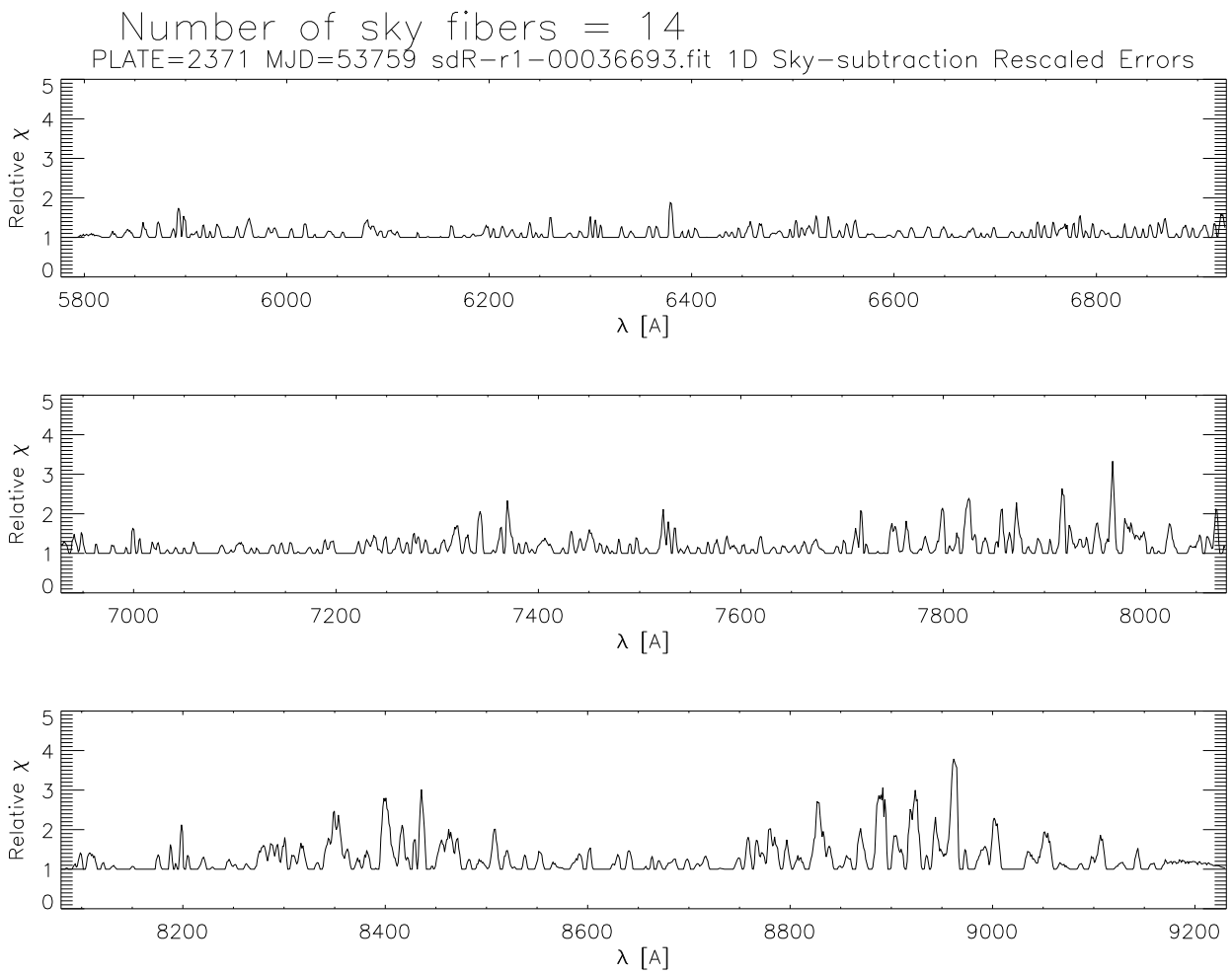

sky shift, pixels
−0.25
−0.30
−0.35
−0.40
5000
6000
7000
8000
9000
10000

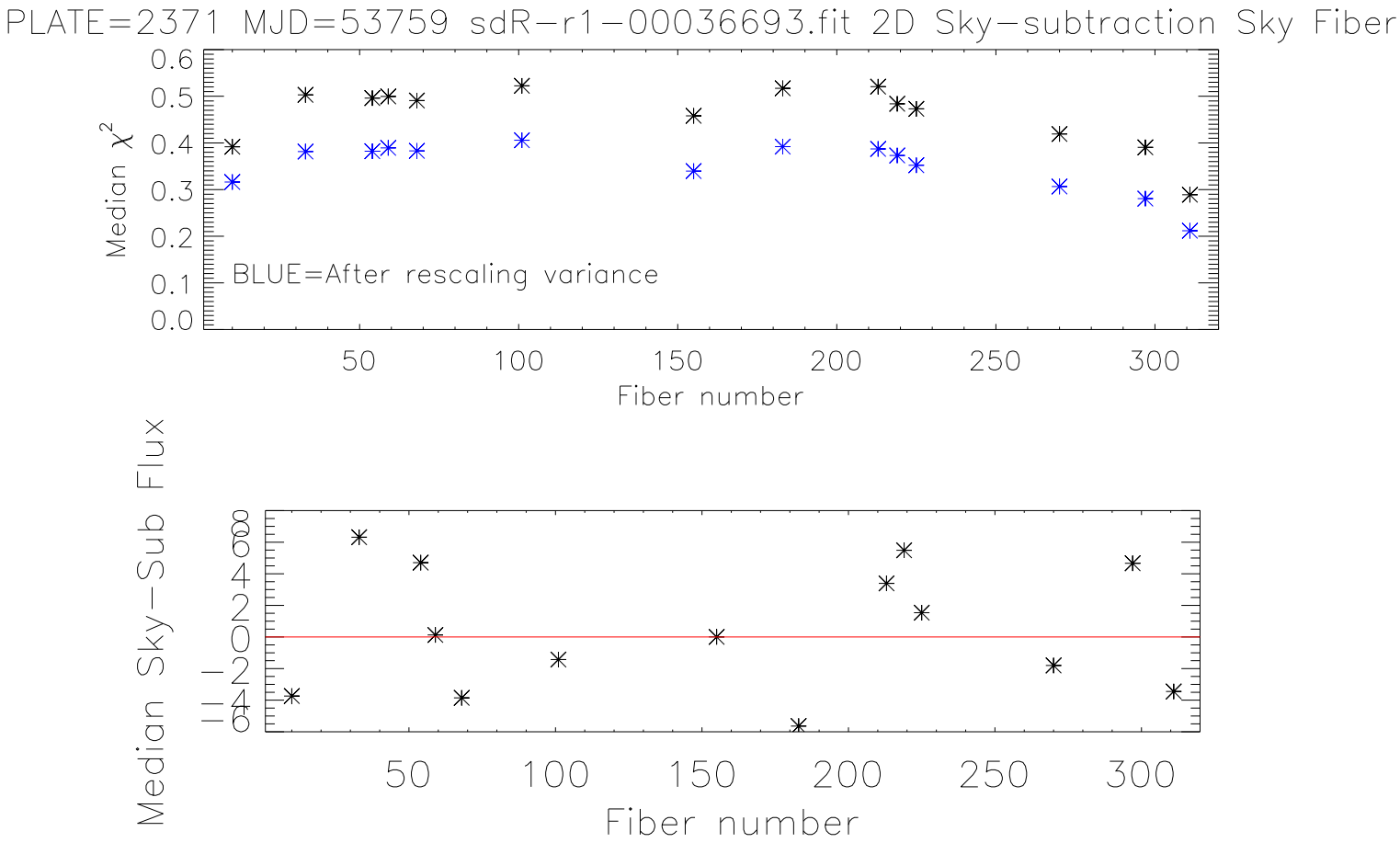

PLATE=2371 MJD=53759 Smooth superflat for sdR-r1-00036693.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

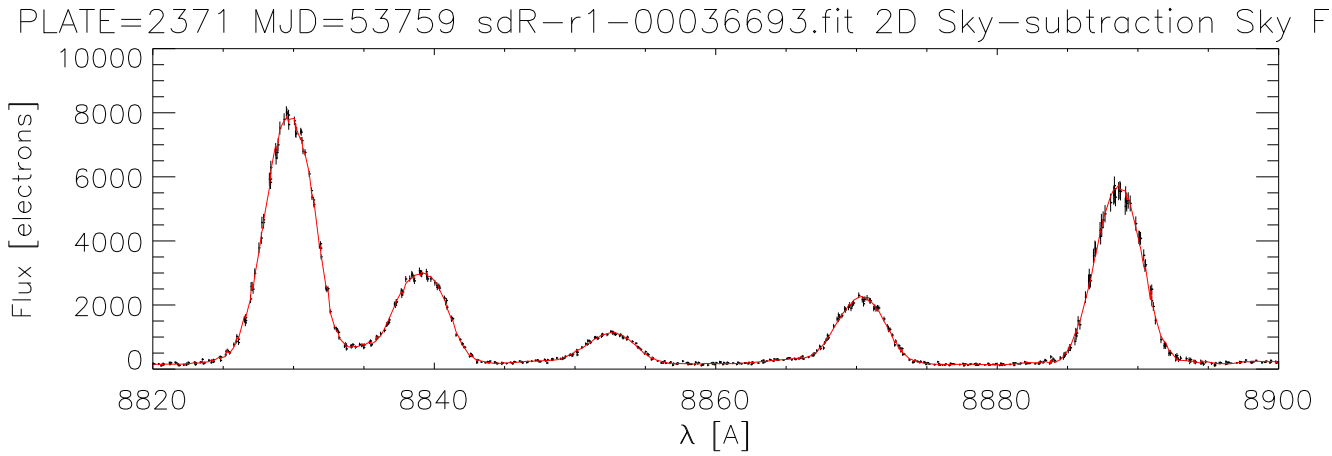

PLATE=2371 MJD=53759 sdR-r1-00036693.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

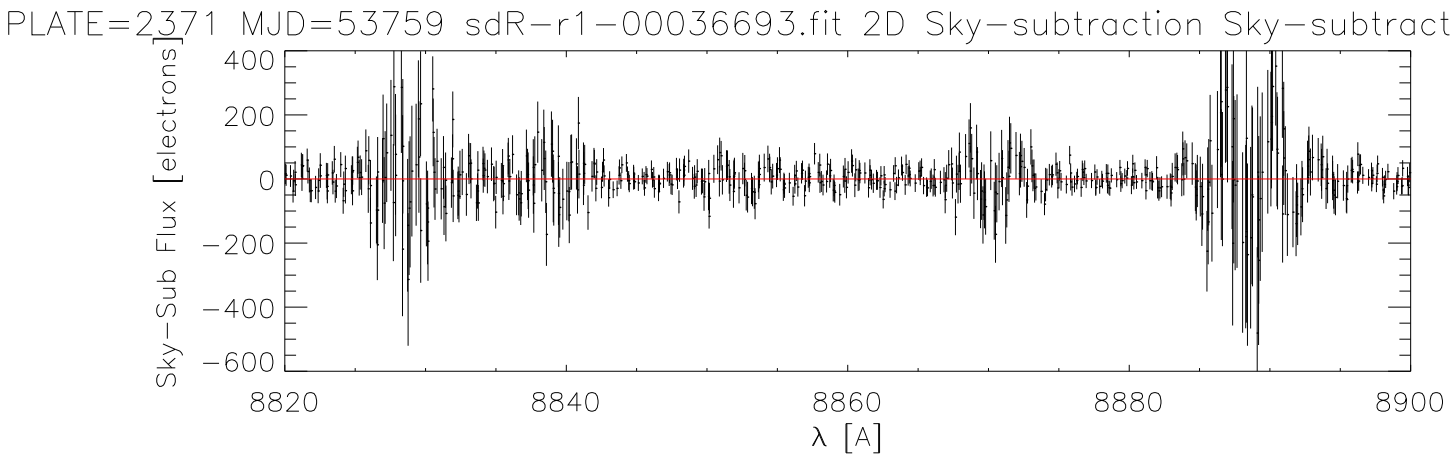

PLATE=2371 MJD=53759 sdR-r1-00036693.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

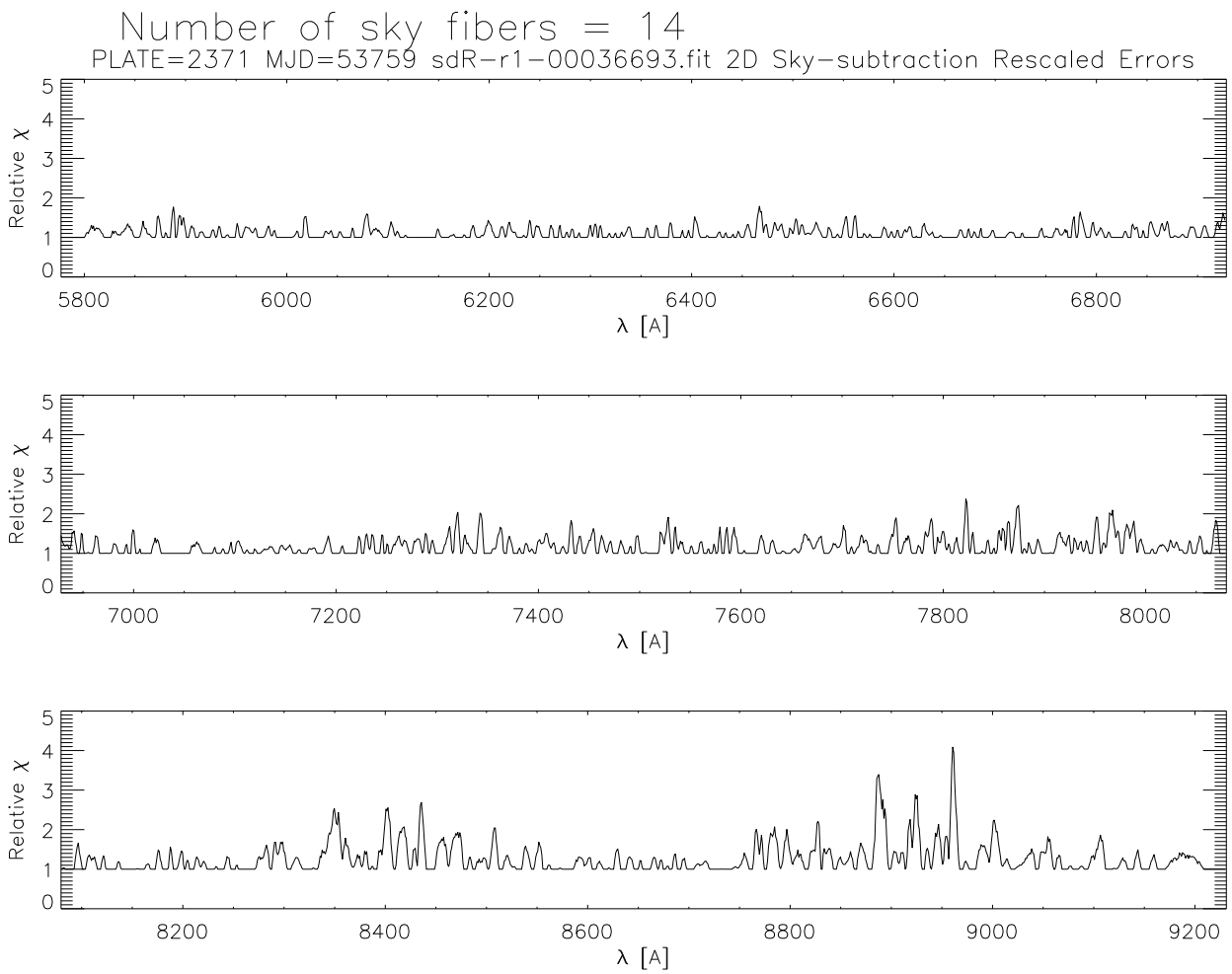

PLATE=2371 MJD=53759 sdR-r1-00036693.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

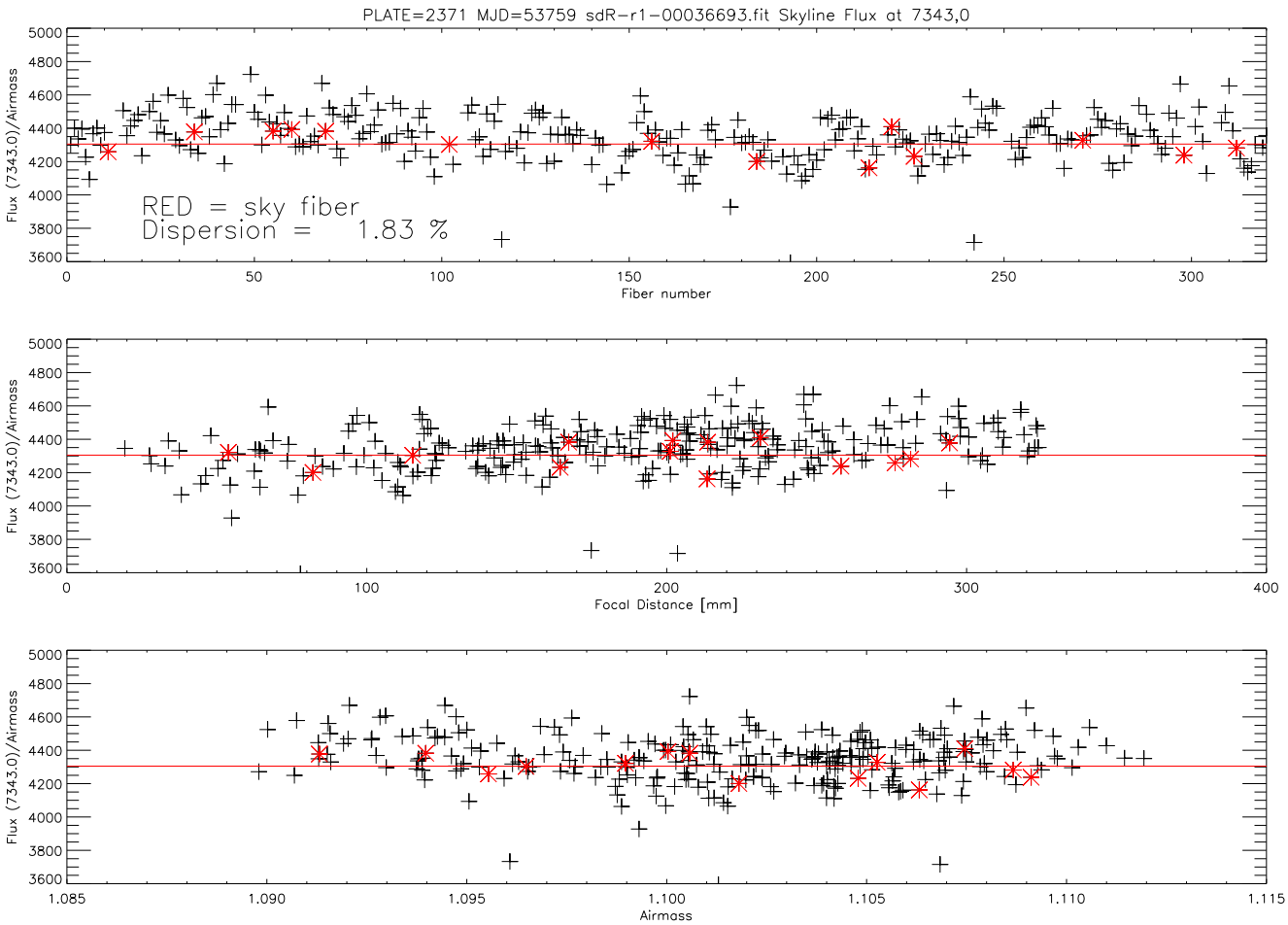

Number of sky fibers = 14
PLATE=2371 MJD=53759 sdR-r1-00036693.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

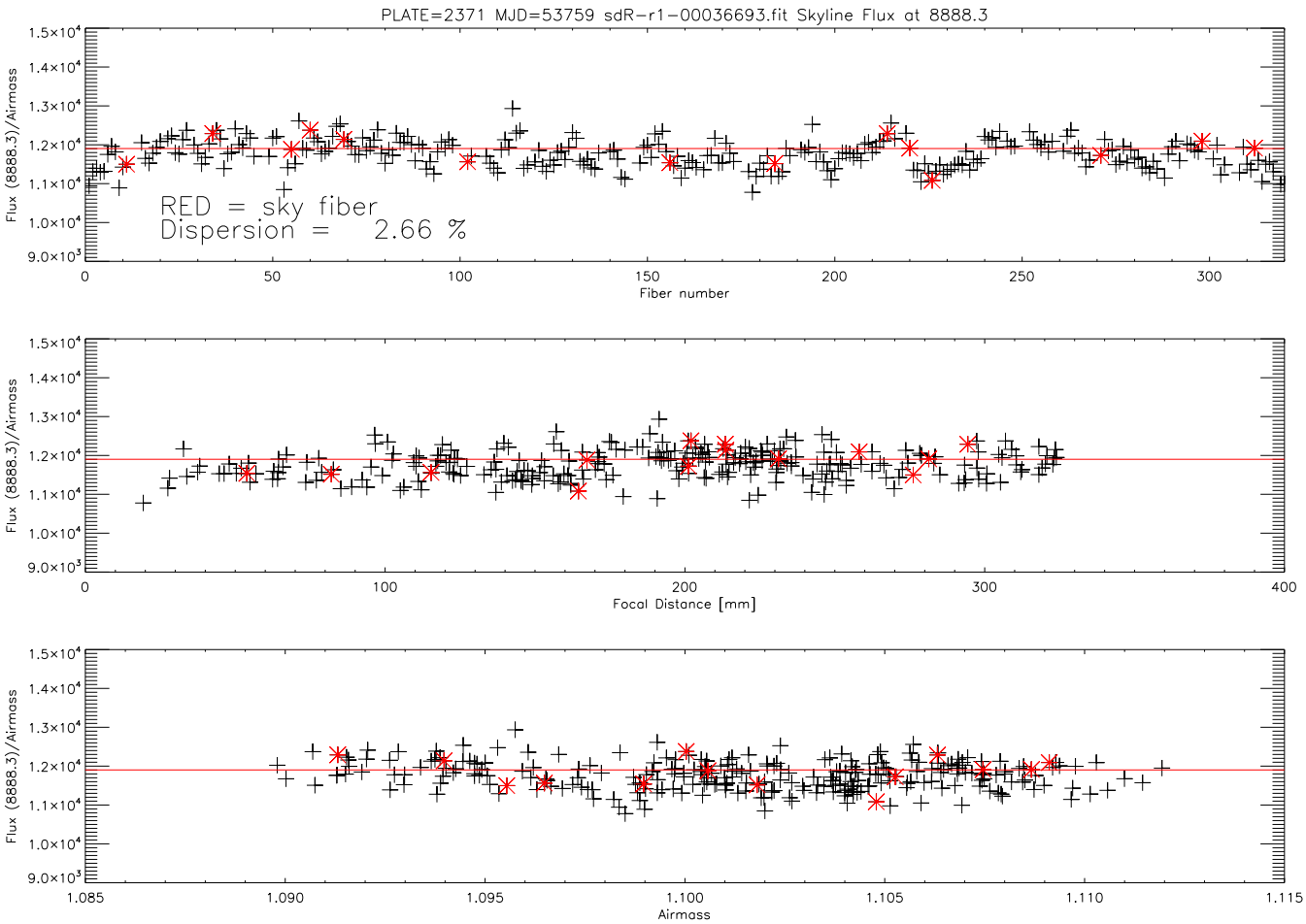

PLATE=2371 MJD=53759 sdR-r1-00036693.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

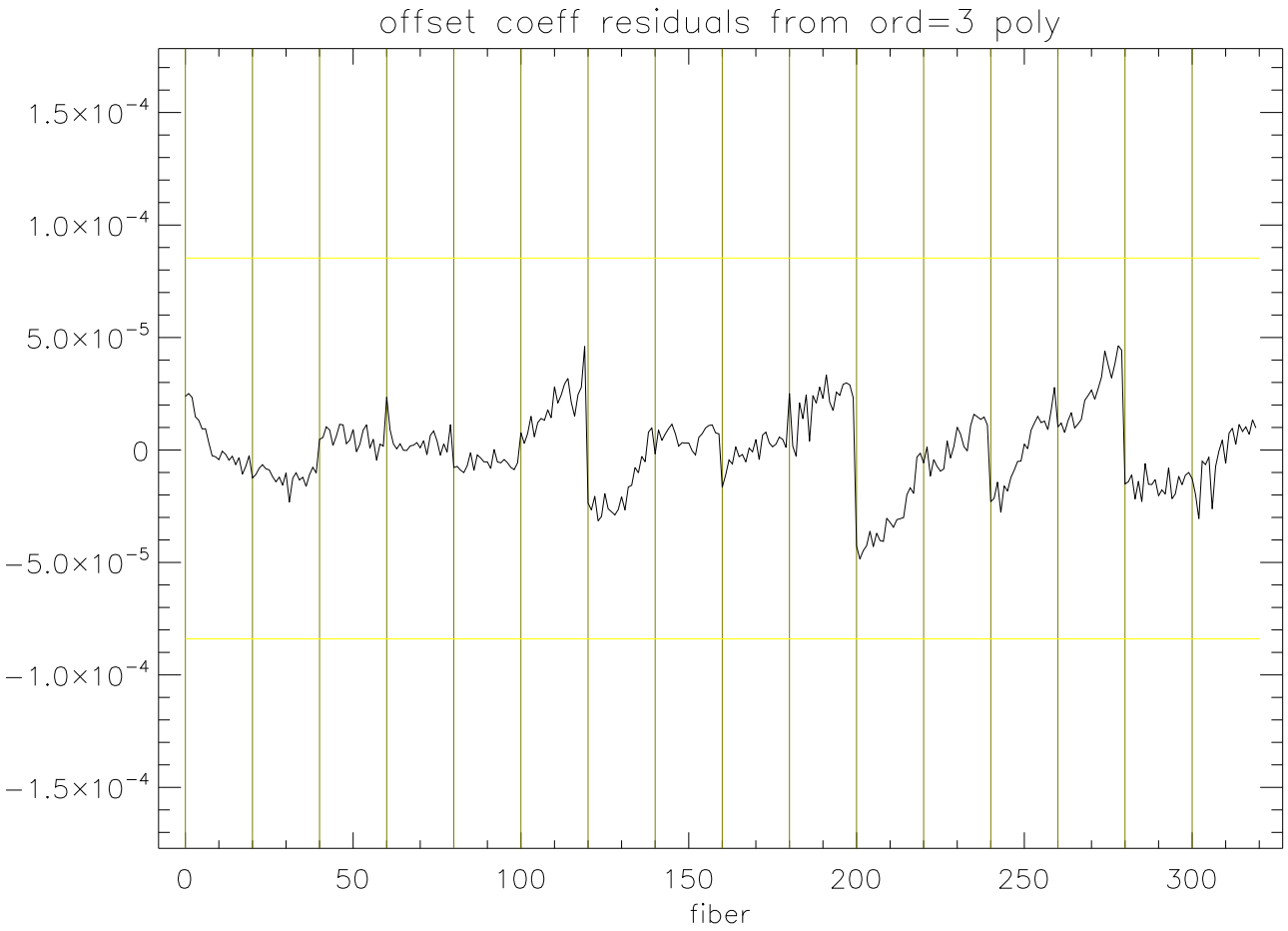

PLATE=2371 MJD=53759 sdR-r1-00036693.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

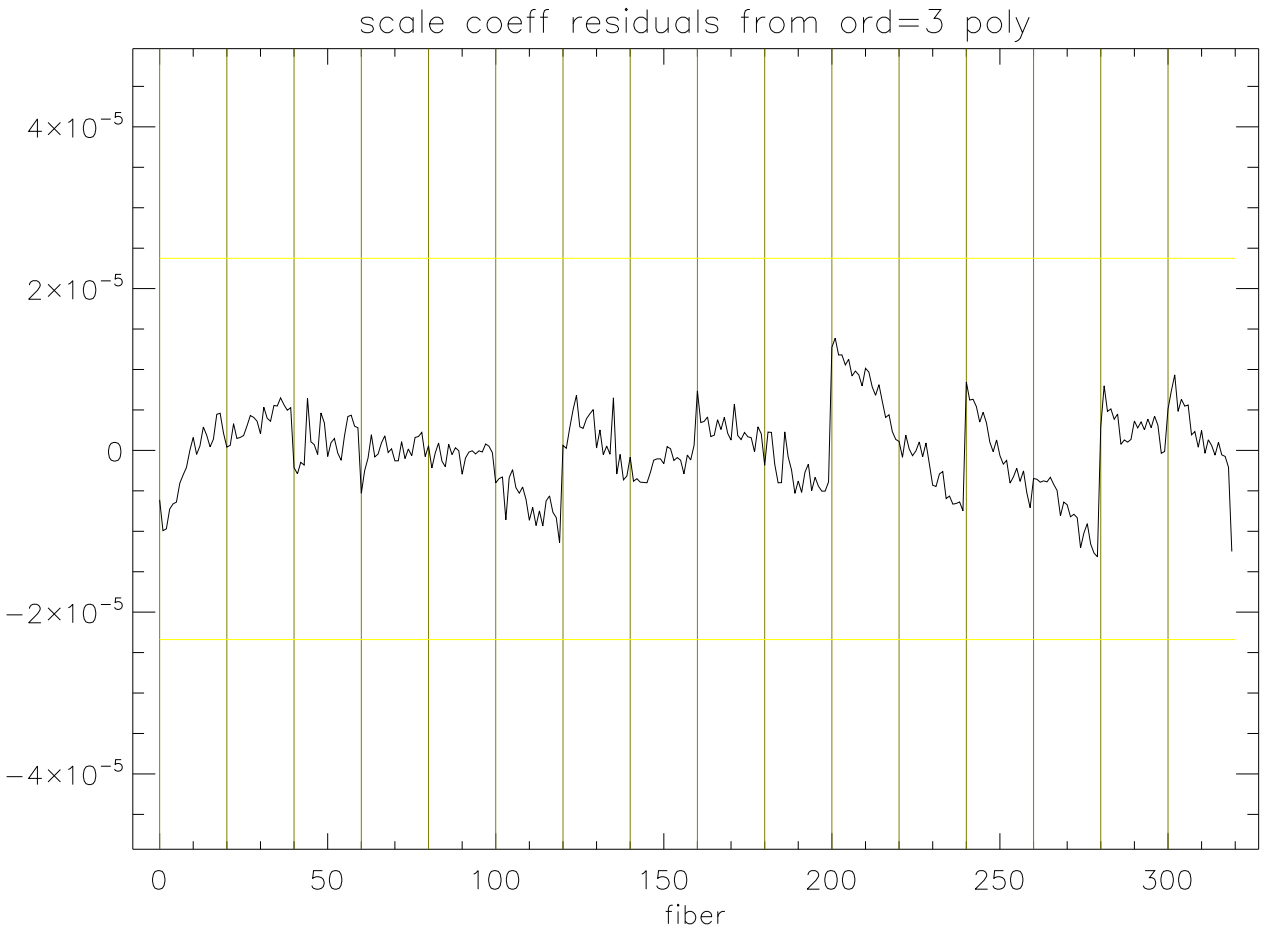

PLATE=2371 MJD=53759 sdR-r1-00036693.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
-600
8820
8840
8860
8880
8900
λ [A]

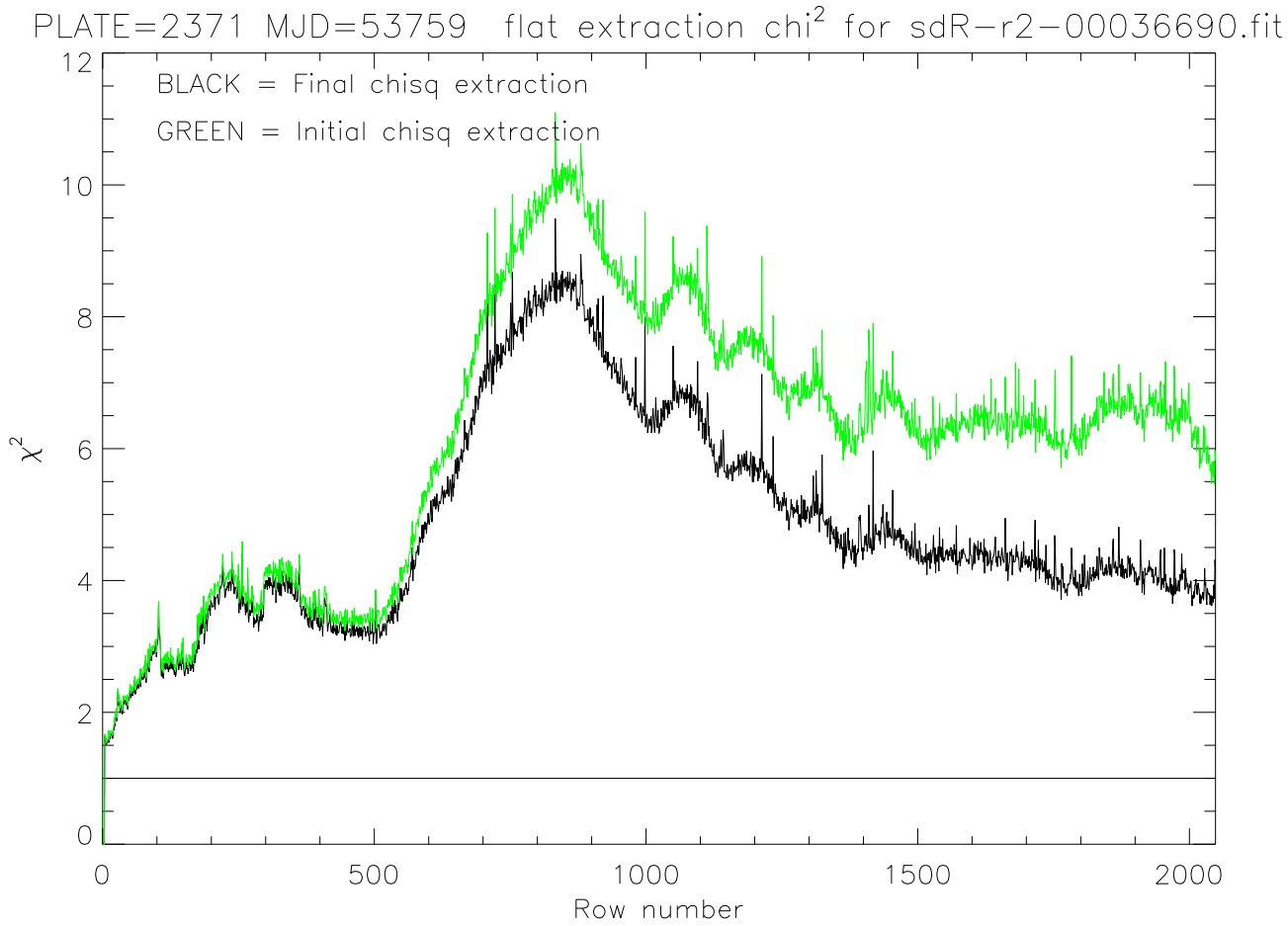

Number of sky fibers = 14
PLATE=2371 MJD=53759 sdR-r1-00036693.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

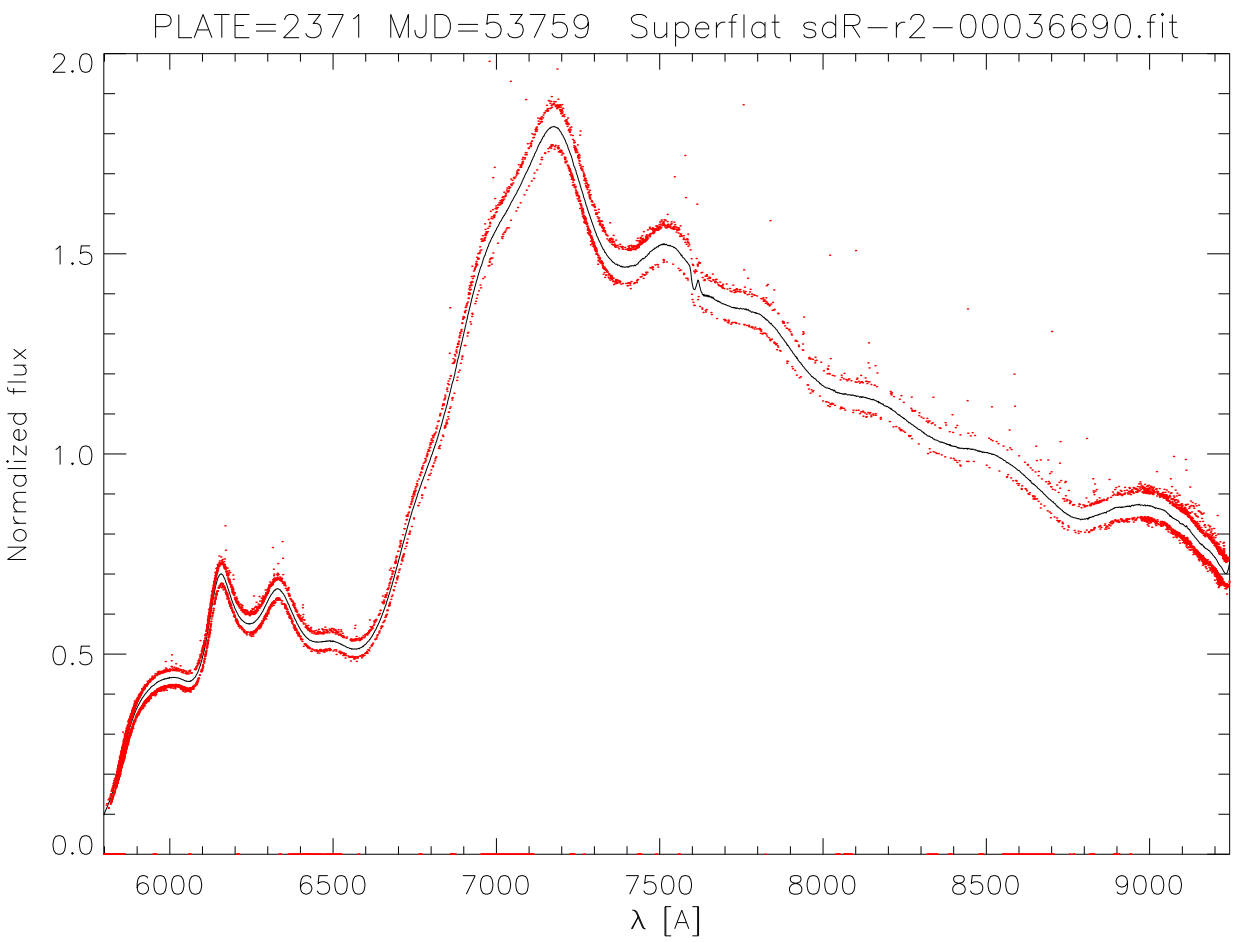

PLATE=2371 MJD=53759 sdR-r1-00036693.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 1.83 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

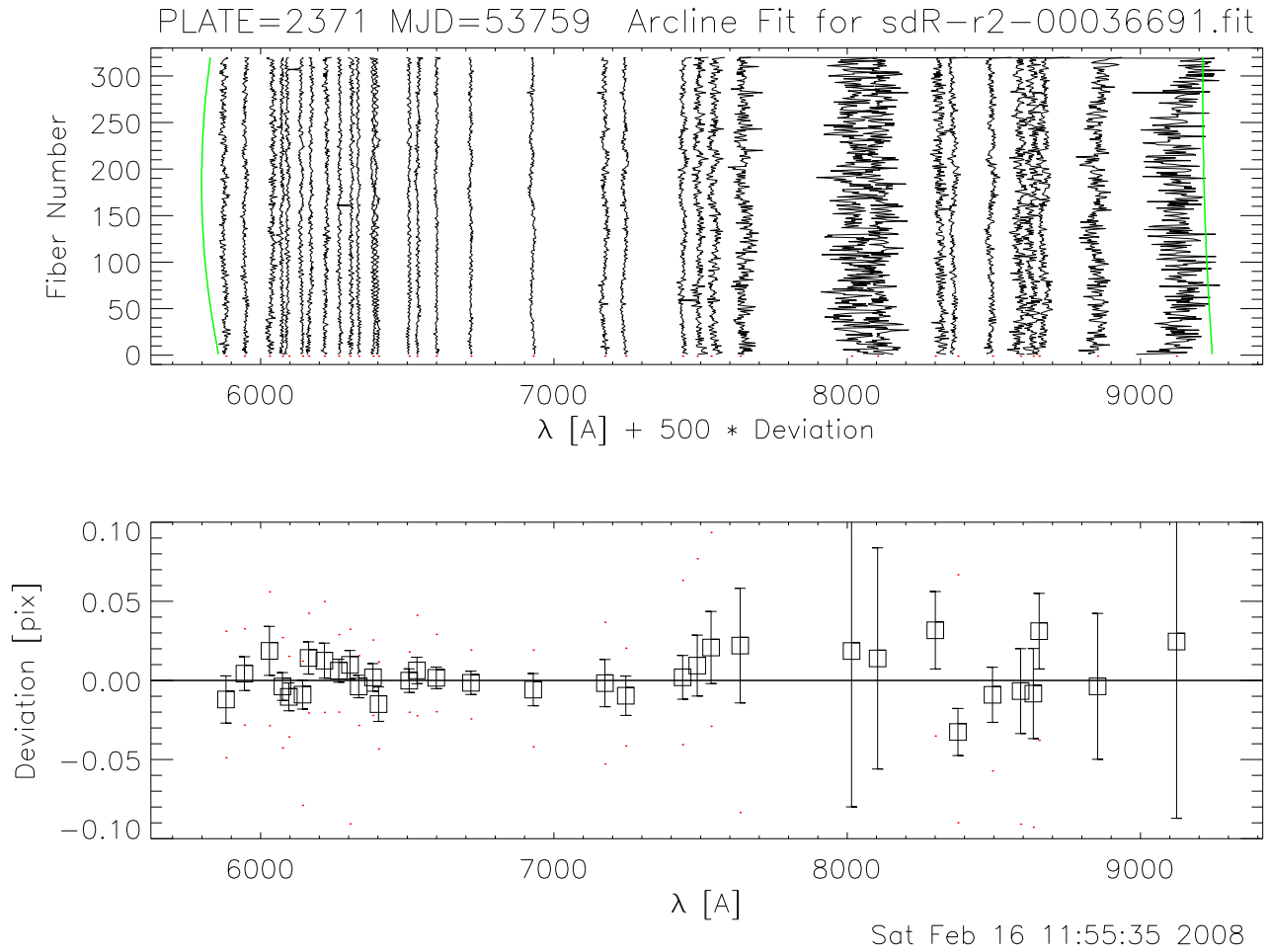

PLATE=2371 MJD=53759 sdR-r1-00036693.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.66 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

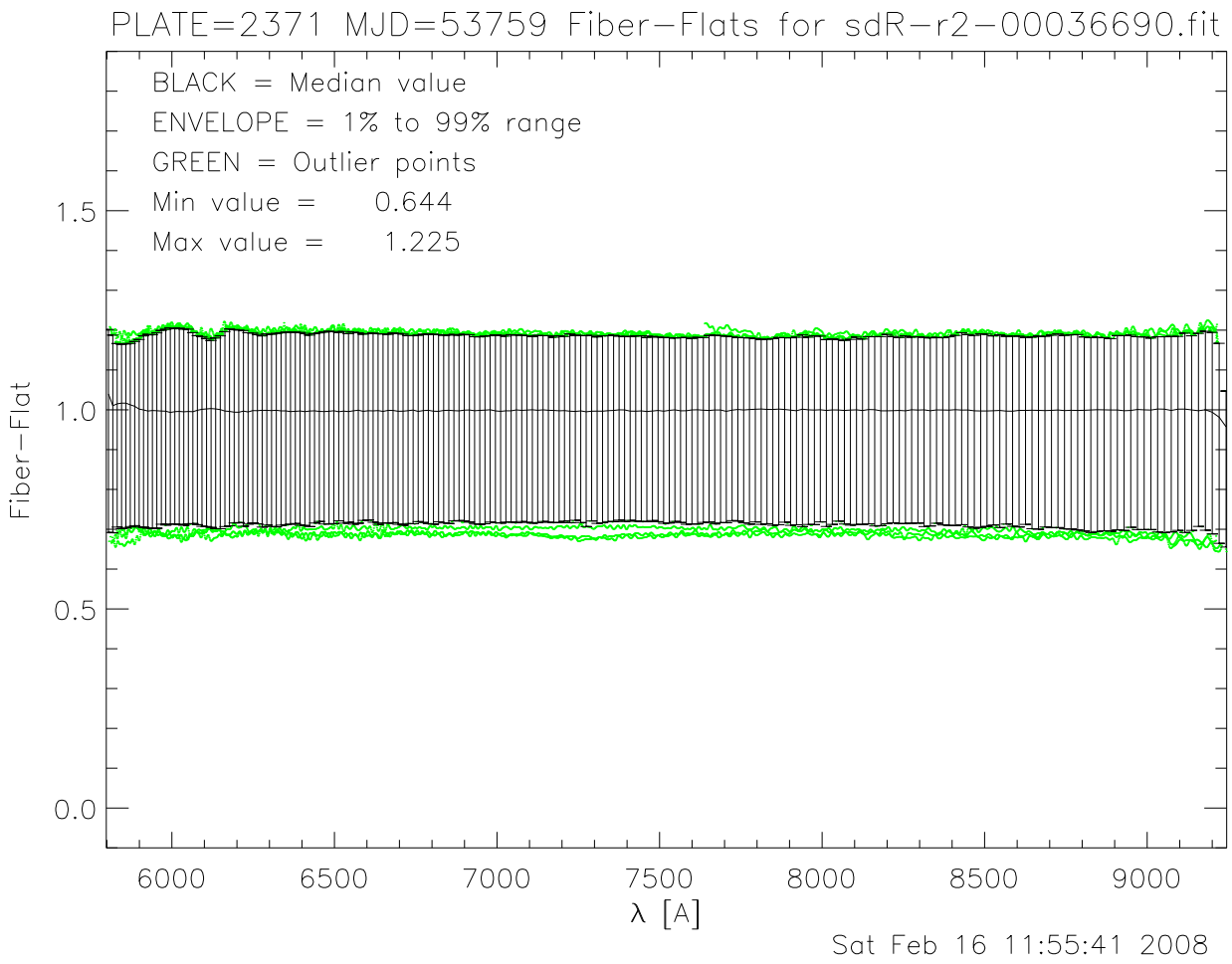

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

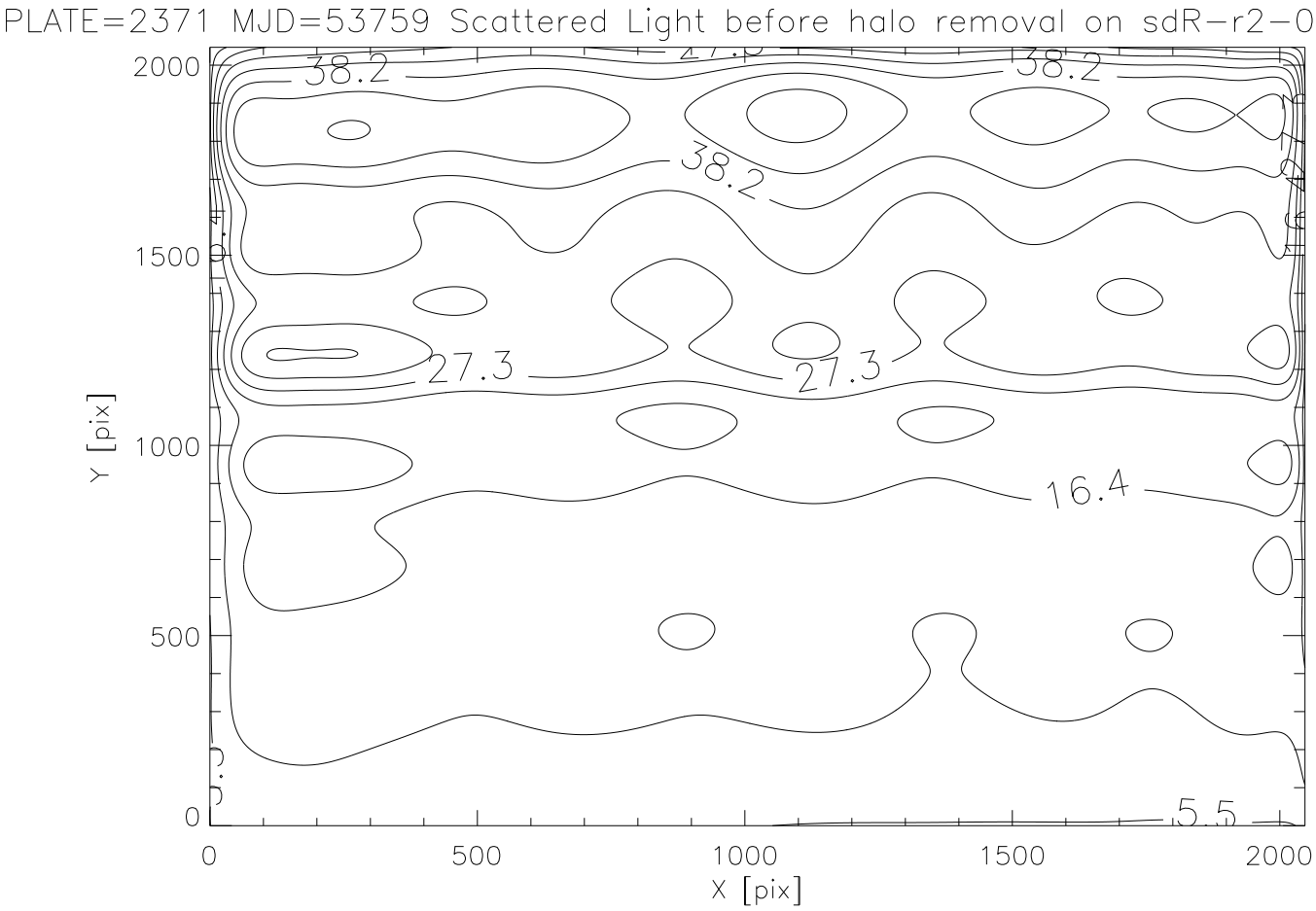

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

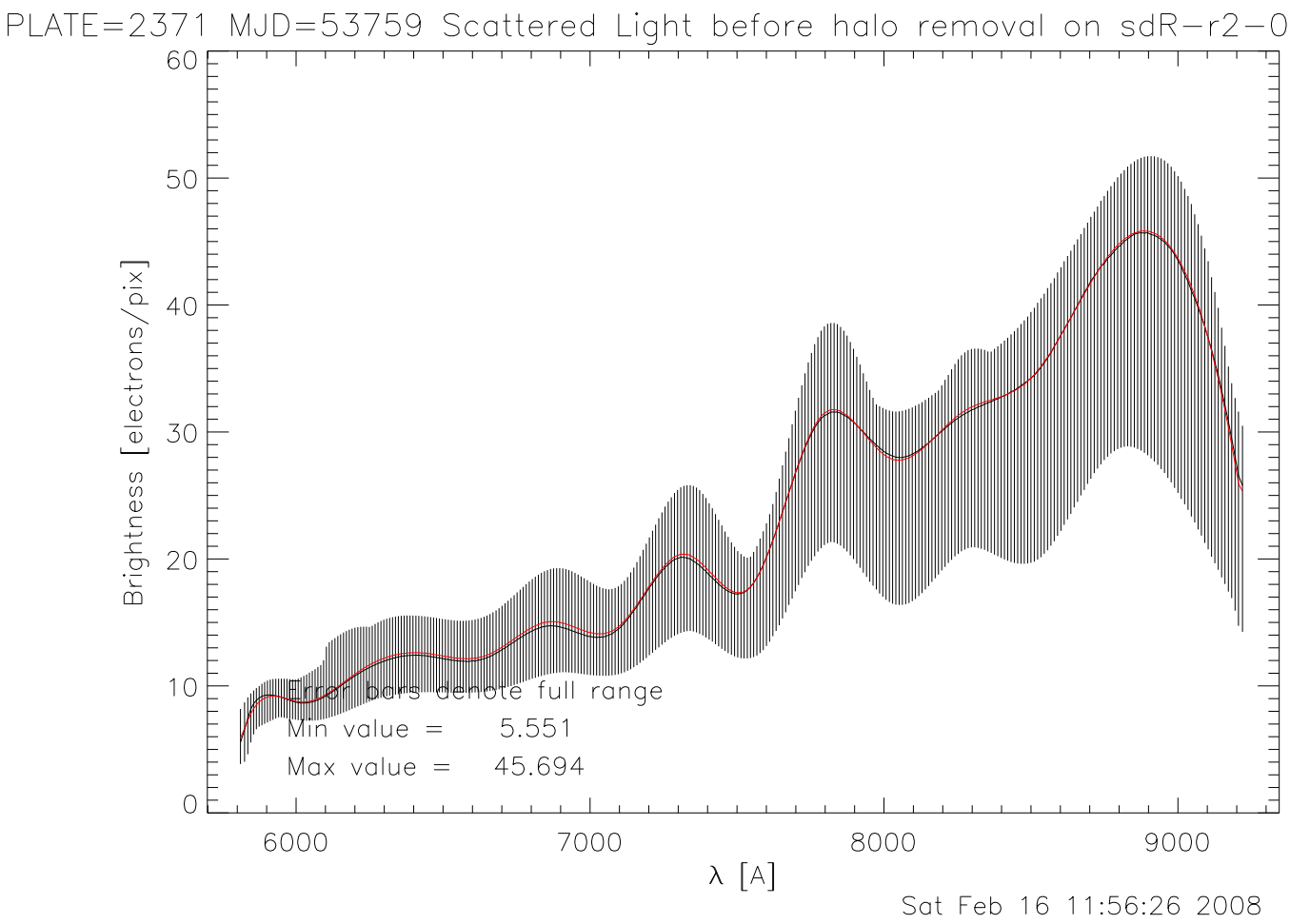

PLATE=2371 MJD=53759 flat extraction chi^2 for sdR−r2−00036690.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

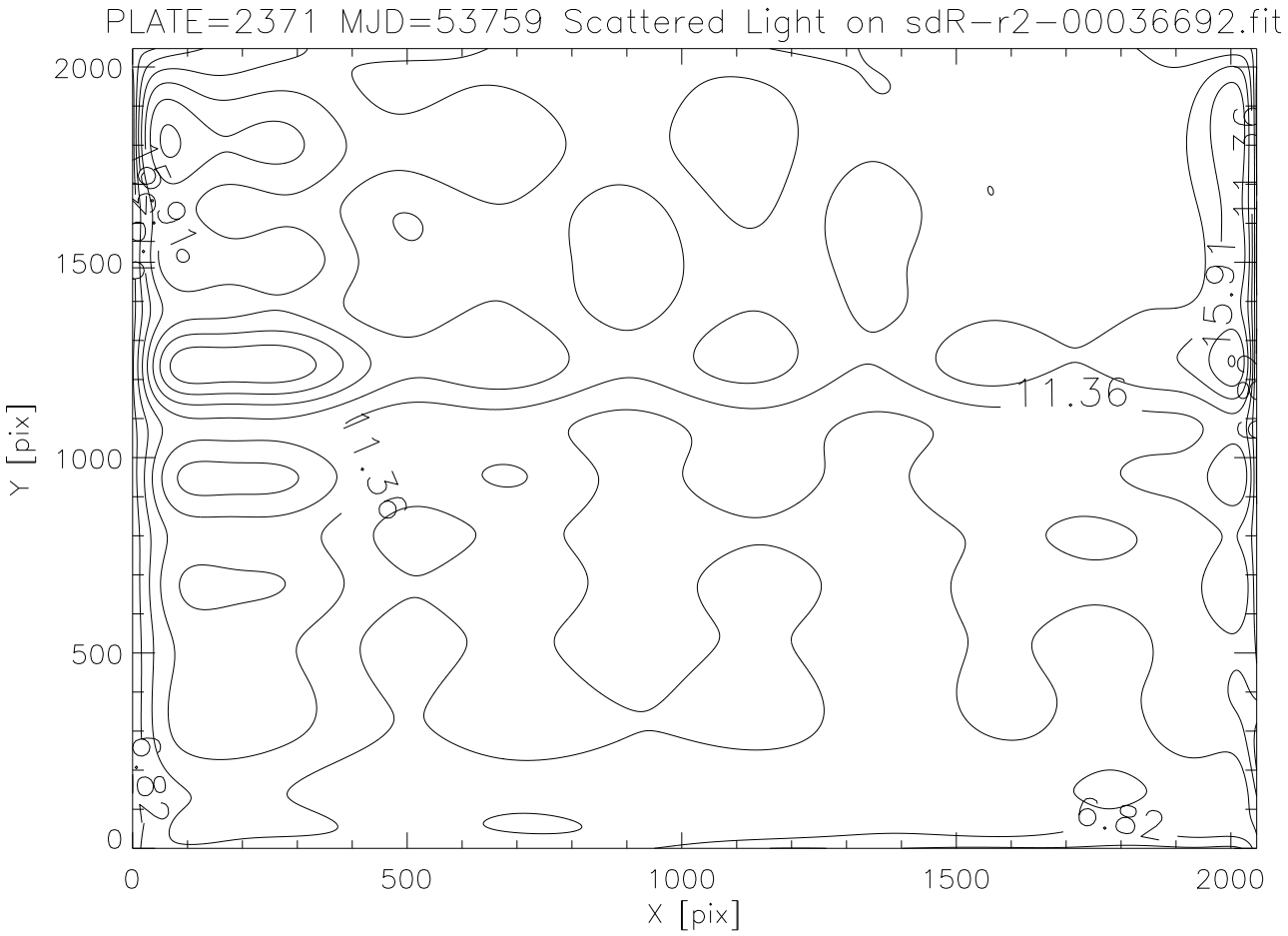

PLATE=2371 MJD=53759 Superflat sdR-r2-00036690.fit
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
6000
6500
7000
7500
8000
8500
9000

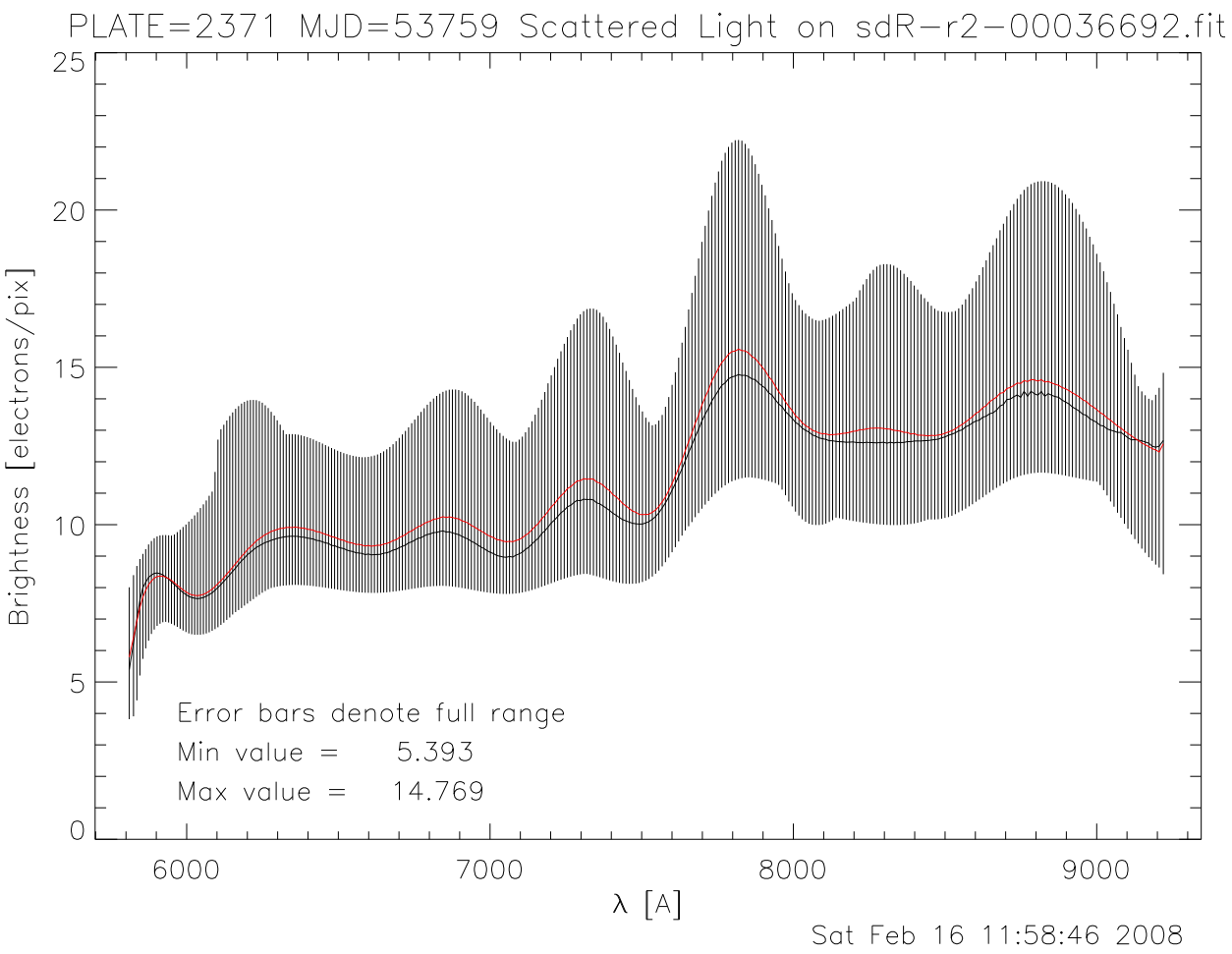

PLATE=2371 MJD=53759 Arcline Fit for sdR-r2-00036691.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Sat Feb 16 11:55:35 2008

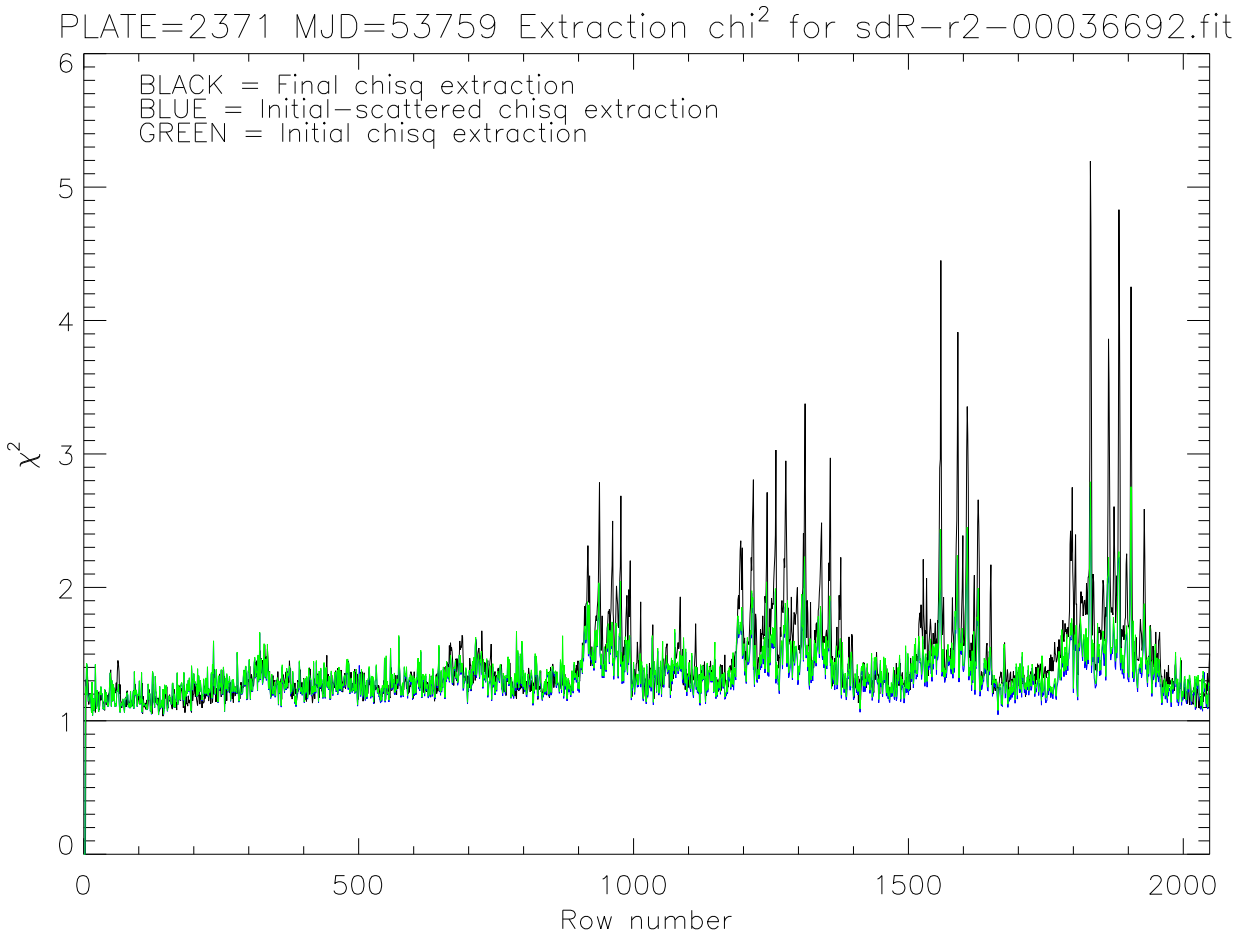

PLATE=2371 MJD=53759 Fiber−Flats for sdR−r2−00036690.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.644
Max value = 1.225
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sat Feb 16 11:55:41 2008

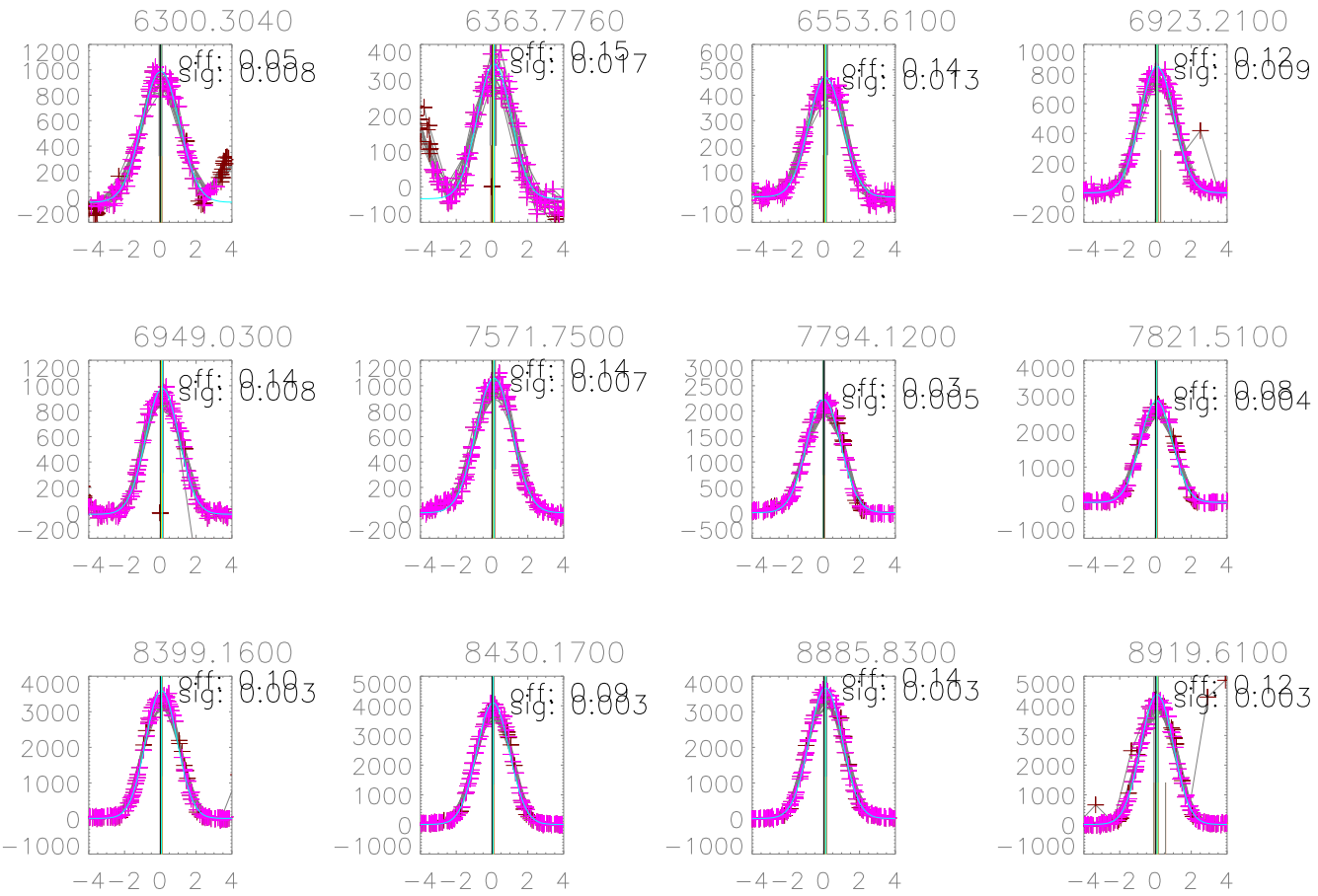

PLATE=2371 MJD=53759 Scattered Light before halo removal on sdR−r2−00036692.fi
38.2
38.2
38.2
27.3
27.3
16.4
5.5
Y [pix]
X [pix]
0
500
1000
1500
2000

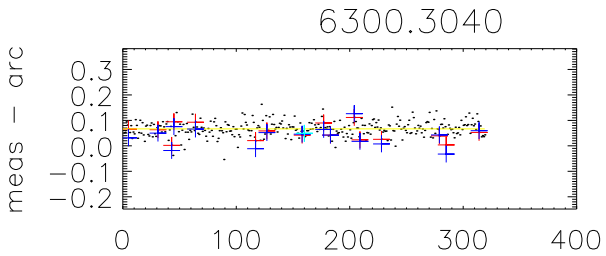

PLATE=2371 MJD=53759 Scattered Light before halo removal on sdR-r2-00036692.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.551
Max value = 45.694
Sat Feb 16 11:56:26 2008

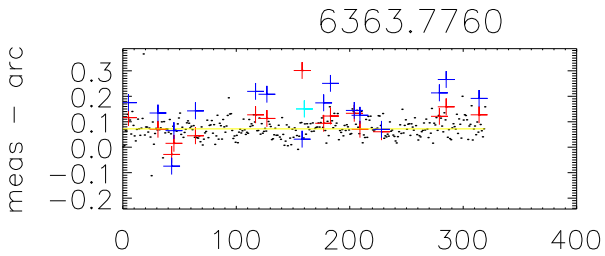

PLATE=2371 MJD=53759 Scattered Light on sdR-r2-00036692.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
15.91
11.36
6.82

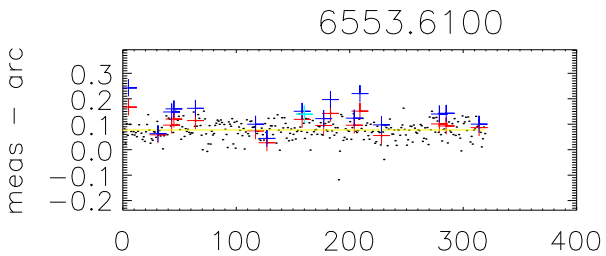

PLATE=2371 MJD=53759 Scattered Light on sdR-r2-00036692.fit
Brightness [electrons/pix]
25
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 5.393
Max value = 14.769
Sat Feb 16 11:58:46 2008

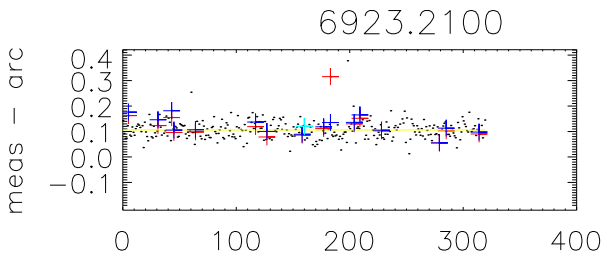

PLATE=2371 MJD=53759 Extraction chi^2 for sdR−r2−00036692.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

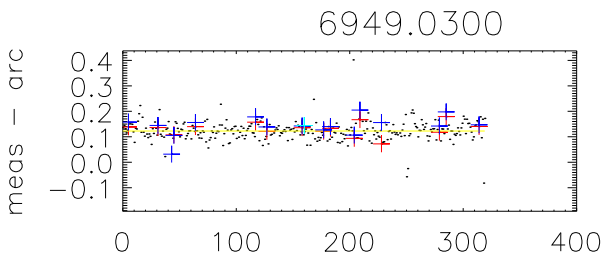

6300.3040
off: 0.05
sig: 0.008
6363.7760
off: 0.15
sig: 0.017
6553.6100
off: 0.14
sig: 0.013
6923.2100
off: 0.12
sig: 0.009
6949.0300
off: 0.14
sig: 0.008
7571.7500
off: 0.14
sig: 0.007
7794.1200
off: 0.03
sig: 0.005
7821.5100
off: 0.08
sig: 0.004
8399.1600
off: 0.10
sig: 0.003
8430.1700
off: 0.08
sig: 0.003
8885.8300
off: 0.14
sig: 0.003
8919.6100
off: 0.12
sig: 0.003

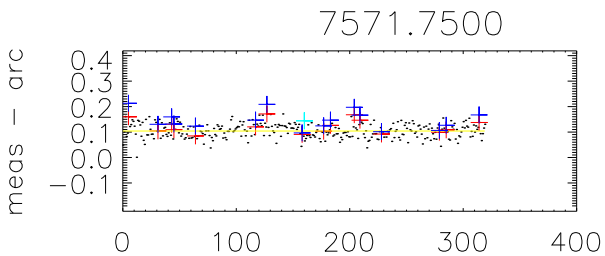

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

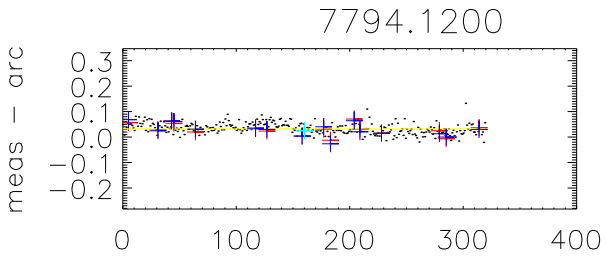

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

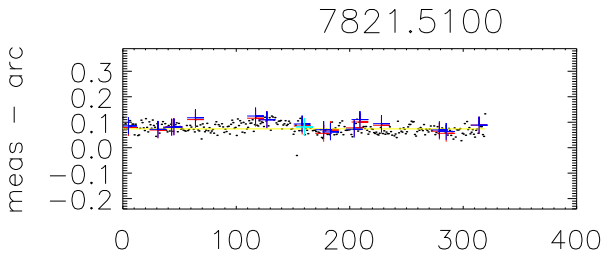

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

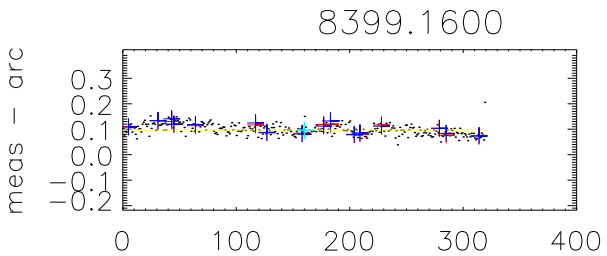

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

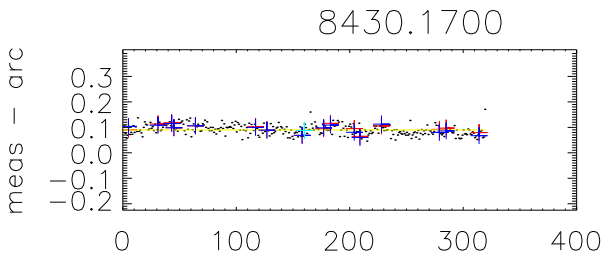

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

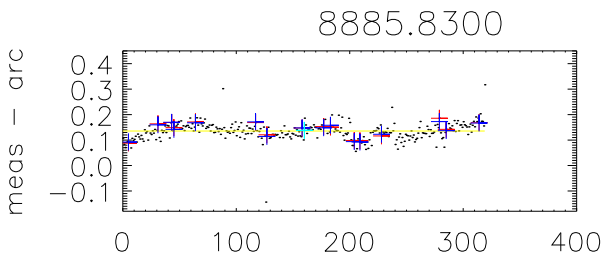

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

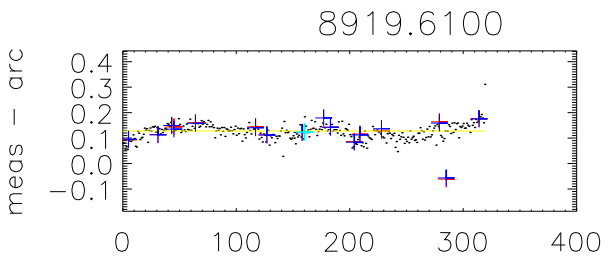

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

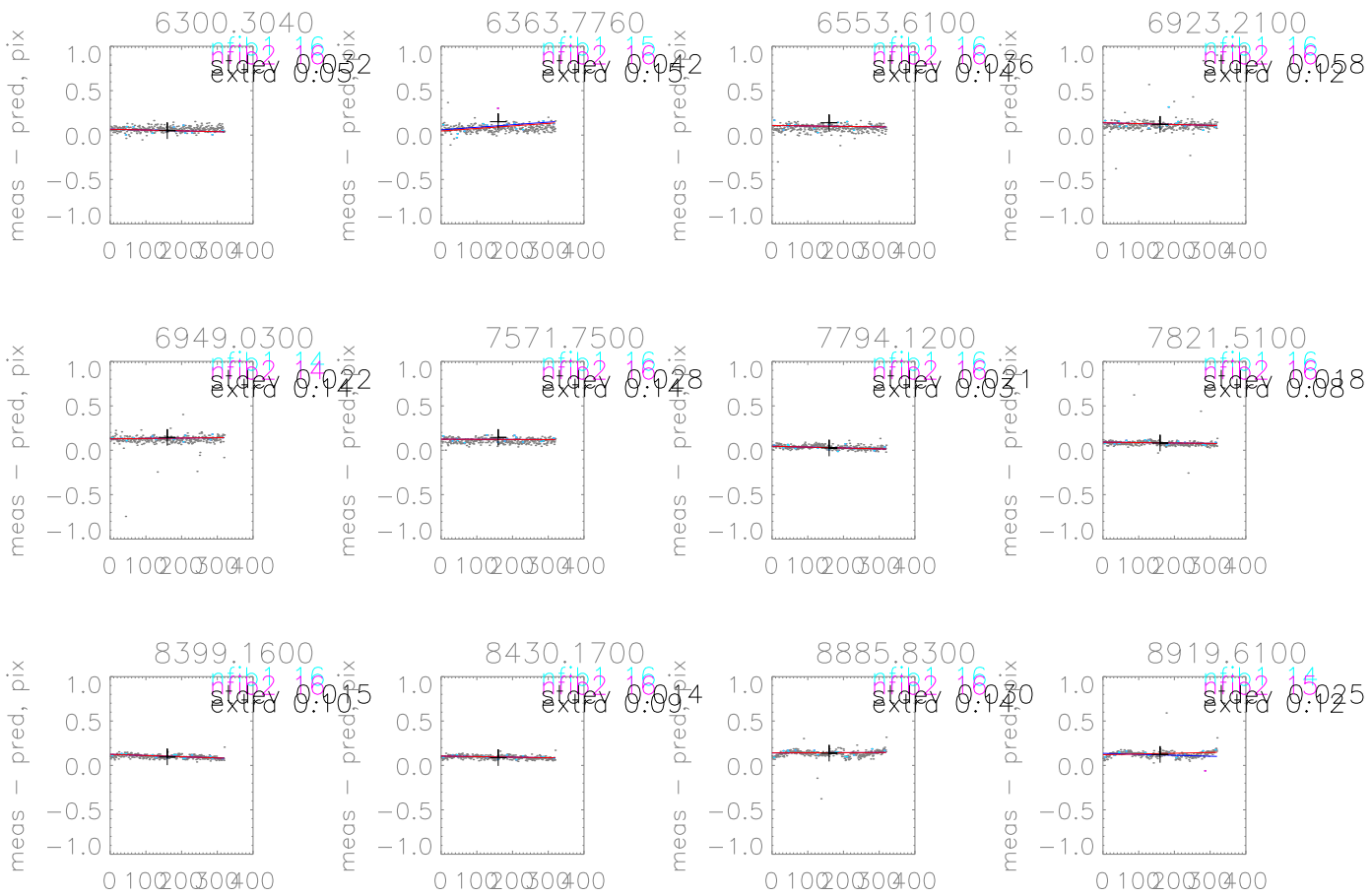

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

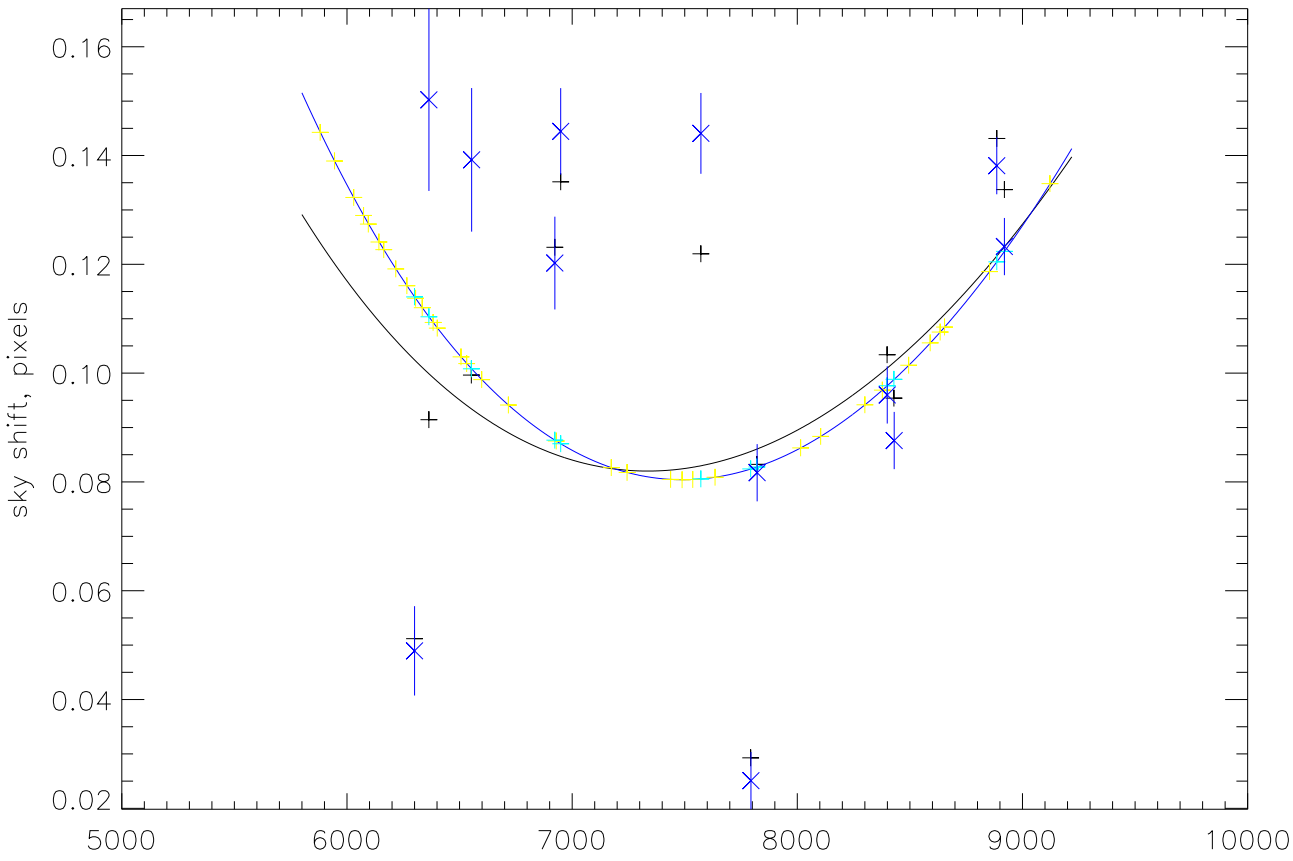

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

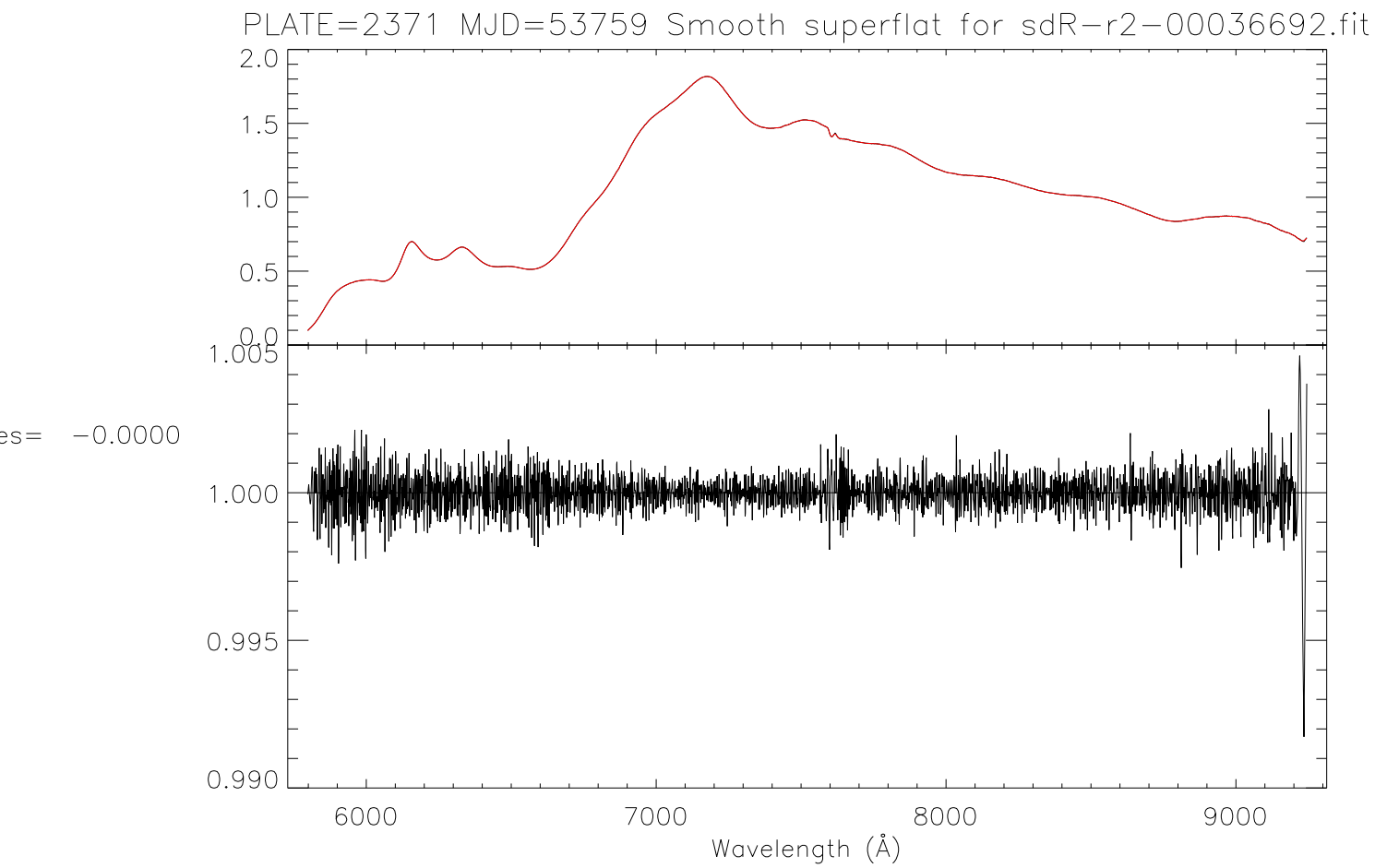

8430.1700
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

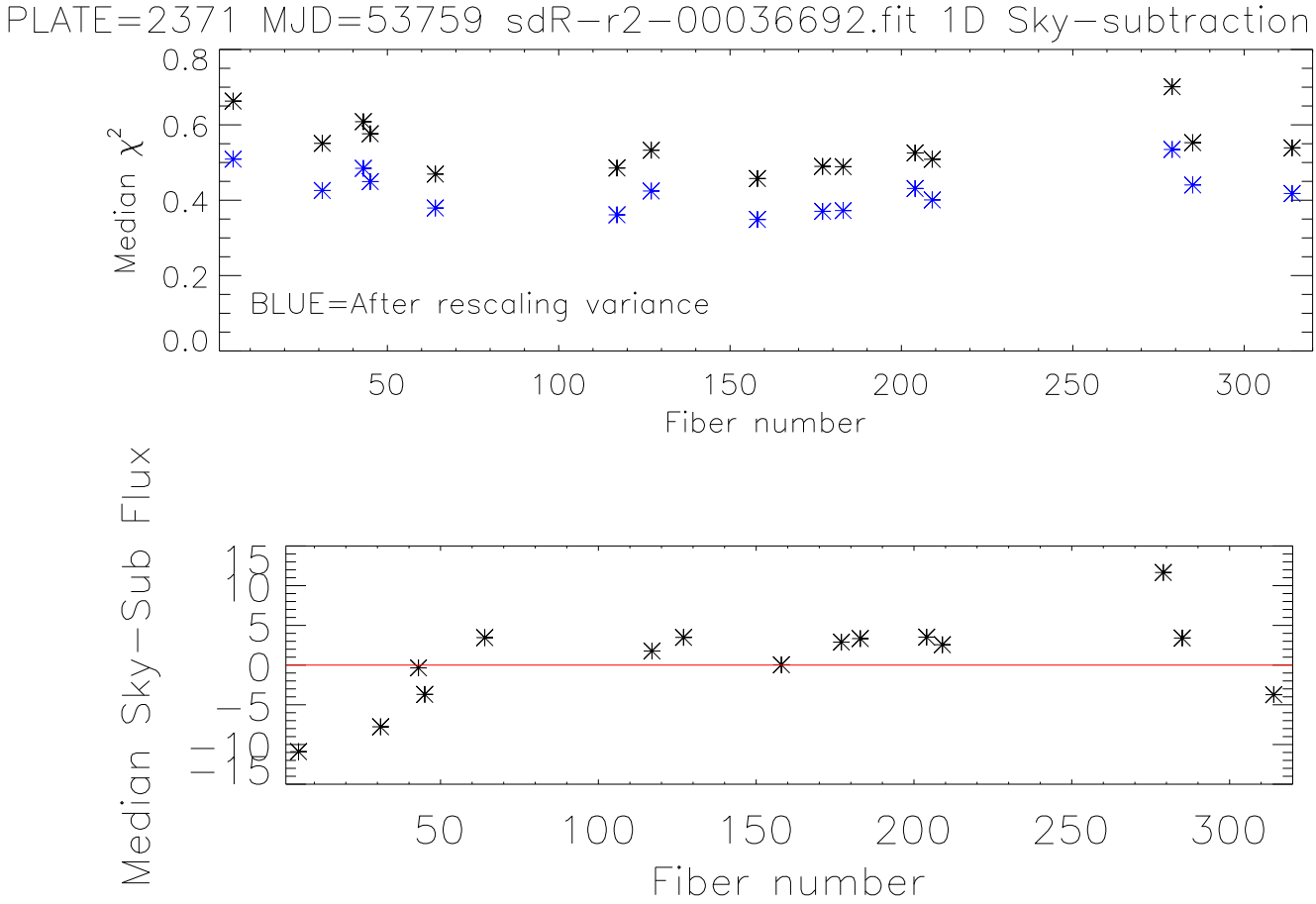

8919.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

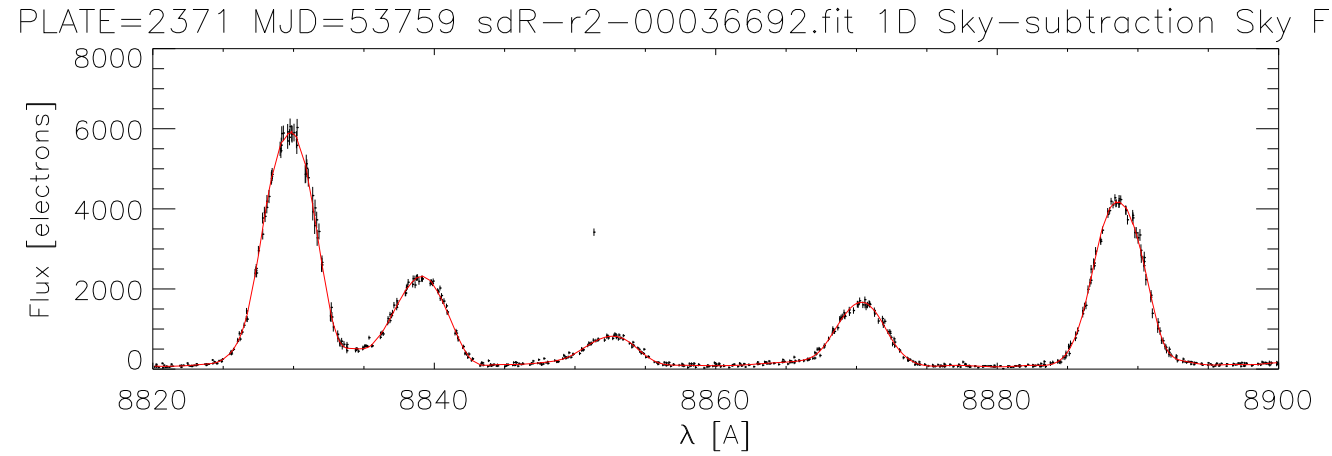

6300.3040
mfib1 16
mfib2 16
stdev 0.052
extra 0.32
6363.7760
mfib1 15
mfib2 16
stdev 0.042
extra 0.152
6553.6100
mfib1 16
mfib2 16
stdev 0.036
extra 0.14
6923.2100
mfib1 16
mfib2 16
stdev 0.058
extra 0.12
6949.0300
mfib1 14
mfib2 16
stdev 0.022
extra 0.142
7571.7500
mfib1 16
mfib2 16
stdev 0.028
extra 0.148
7794.1200
mfib1 16
mfib2 16
stdev 0.021
extra 0.03
7821.5100
mfib1 16
mfib2 16
stdev 0.018
extra 0.08
8399.1600
mfib1 16
mfib2 16
stdev 0.015
extra 0.10
8430.1700
mfib1 16
mfib2 16
stdev 0.014
extra 0.094
8885.8300
mfib1 16
mfib2 16
stdev 0.030
extra 0.14
8919.6100
mfib1 14
mfib2 16
stdev 0.025
extra 0.12
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

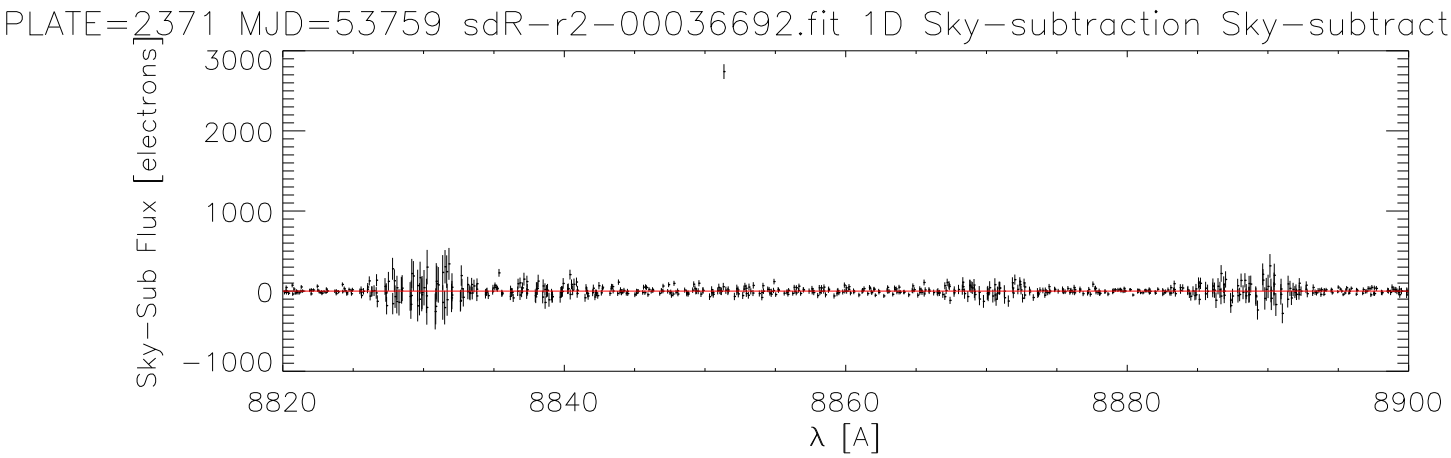

sky shift, pixels
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
5000
6000
7000
8000
9000
10000

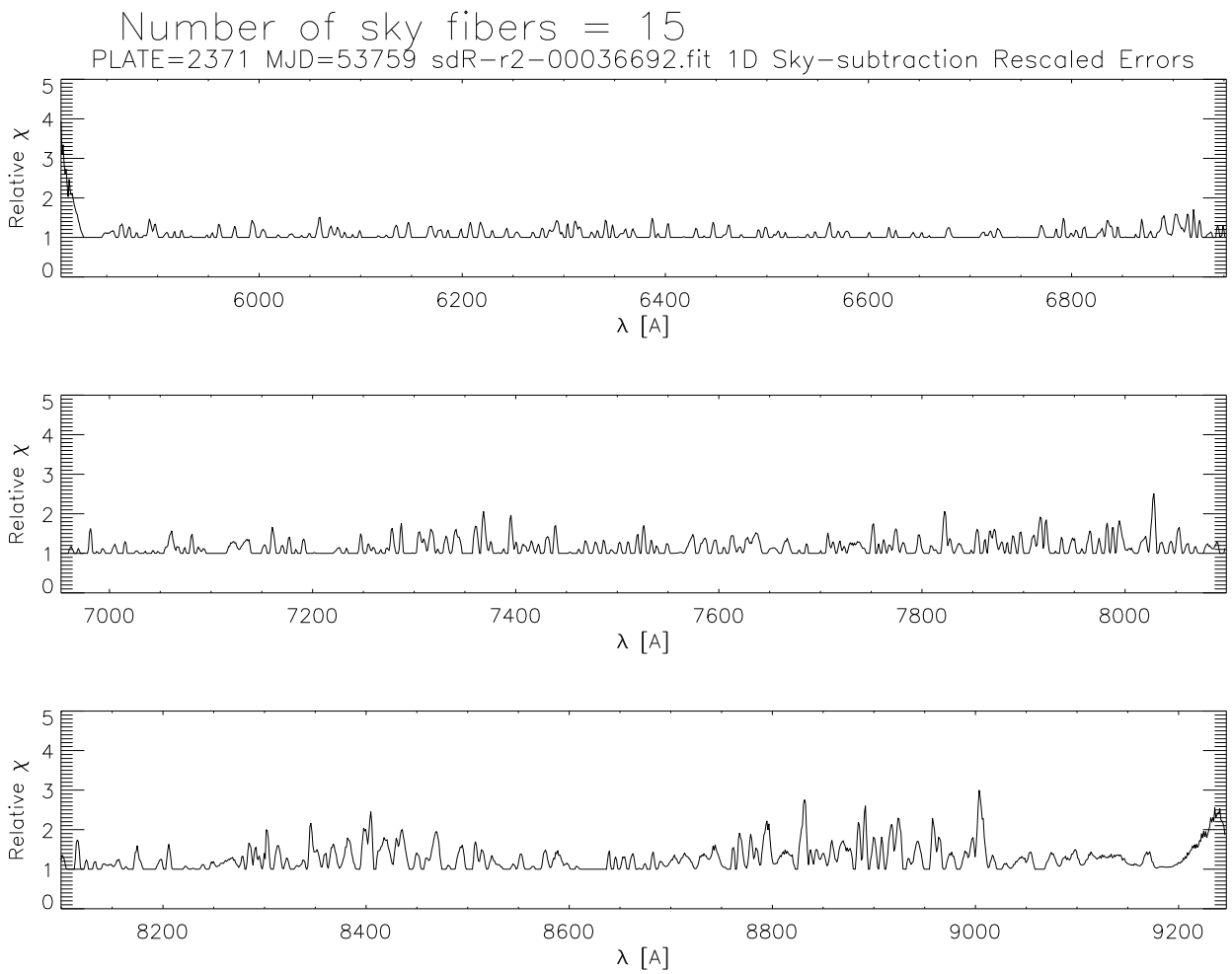

PLATE=2371 MJD=53759 Smooth superflat for sdR-r2-00036692.fit
2.0
1.5
1.0
0.5
0.0
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

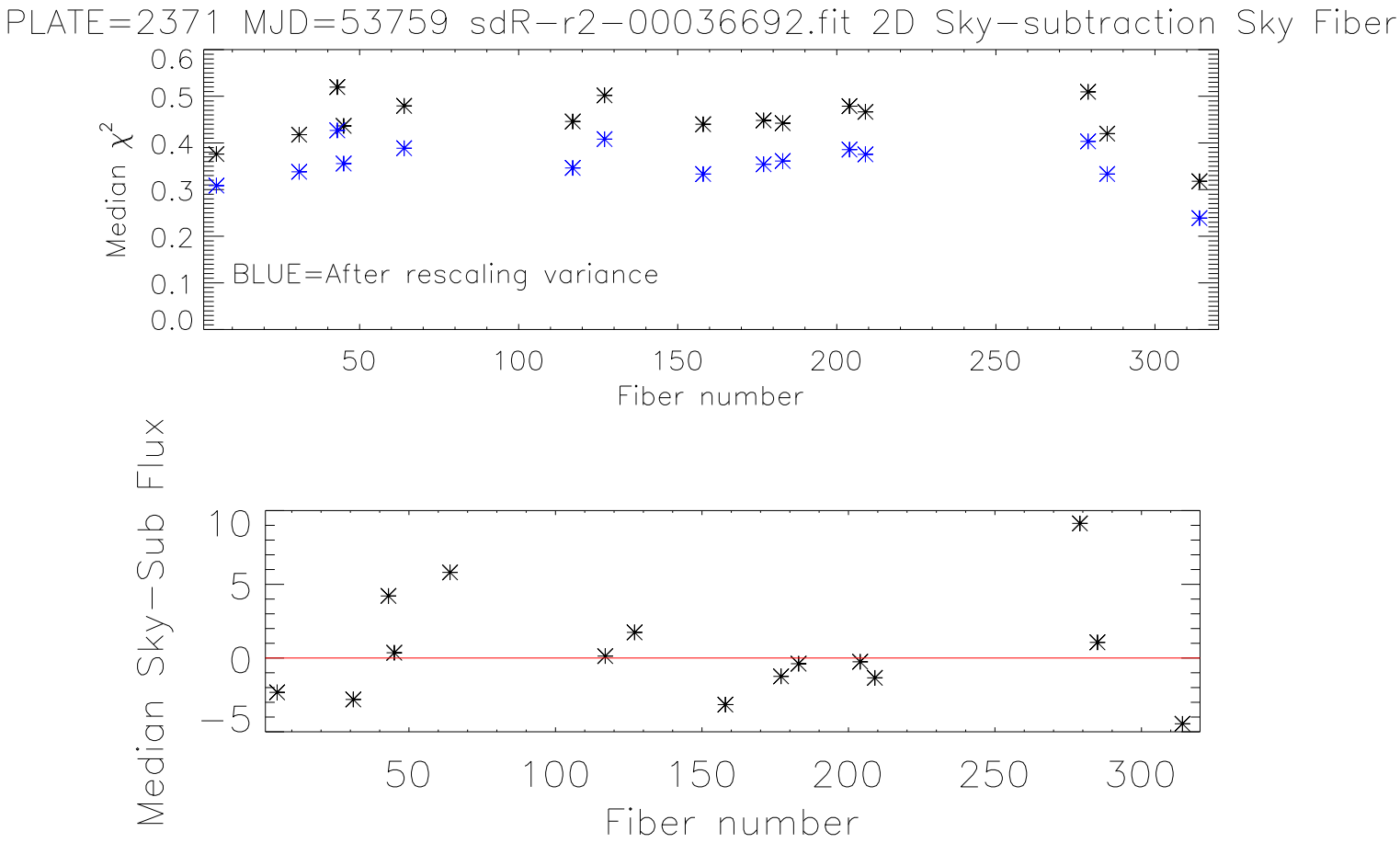
es= −0.0000

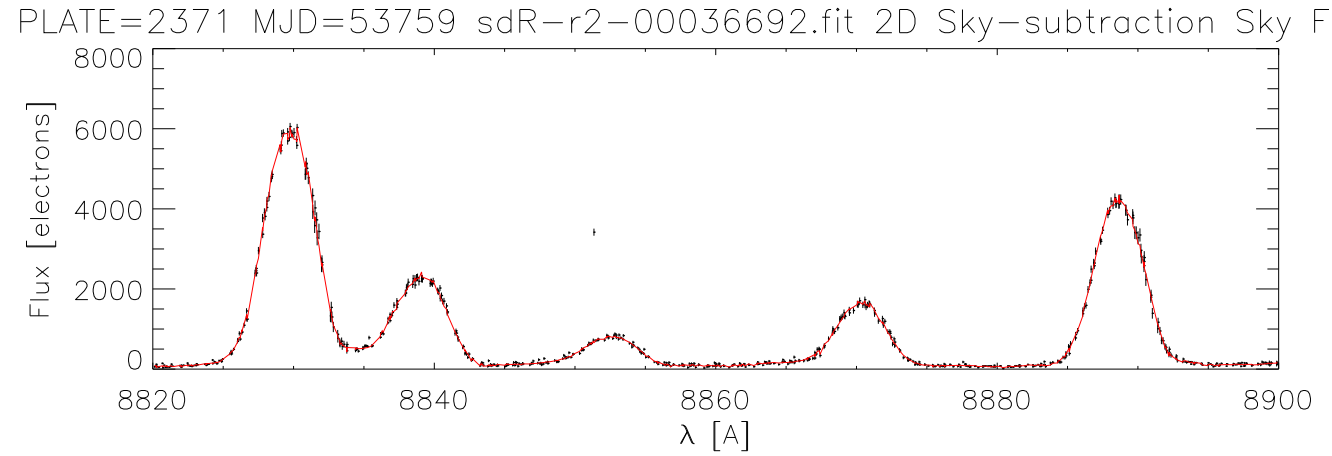

PLATE=2371 MJD=53759 sdR-r2-00036692.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
15
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

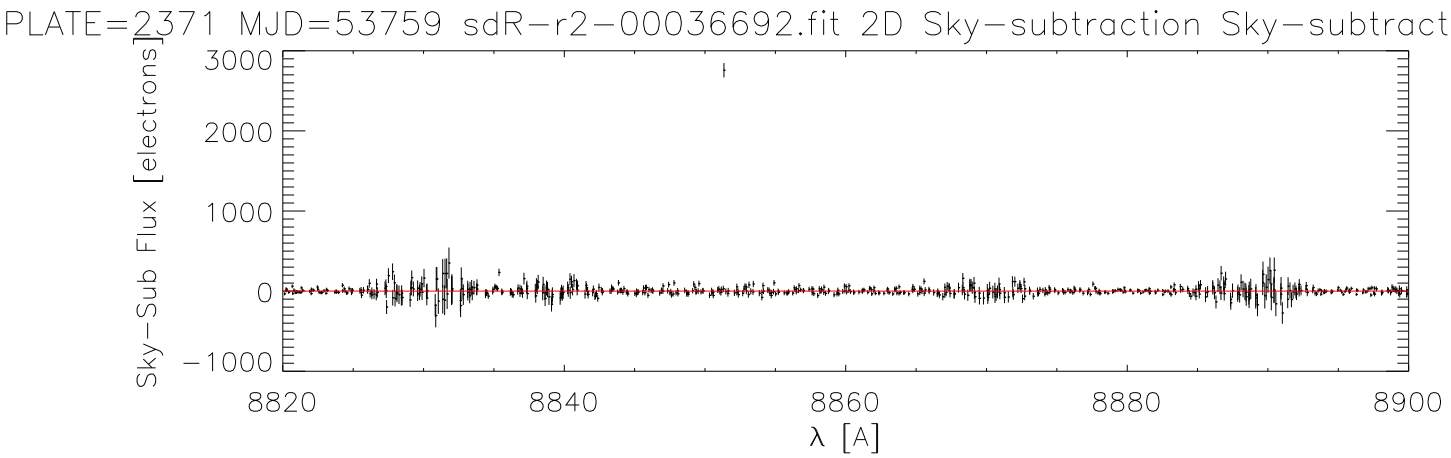

PLATE=2371 MJD=53759 sdR-r2-00036692.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

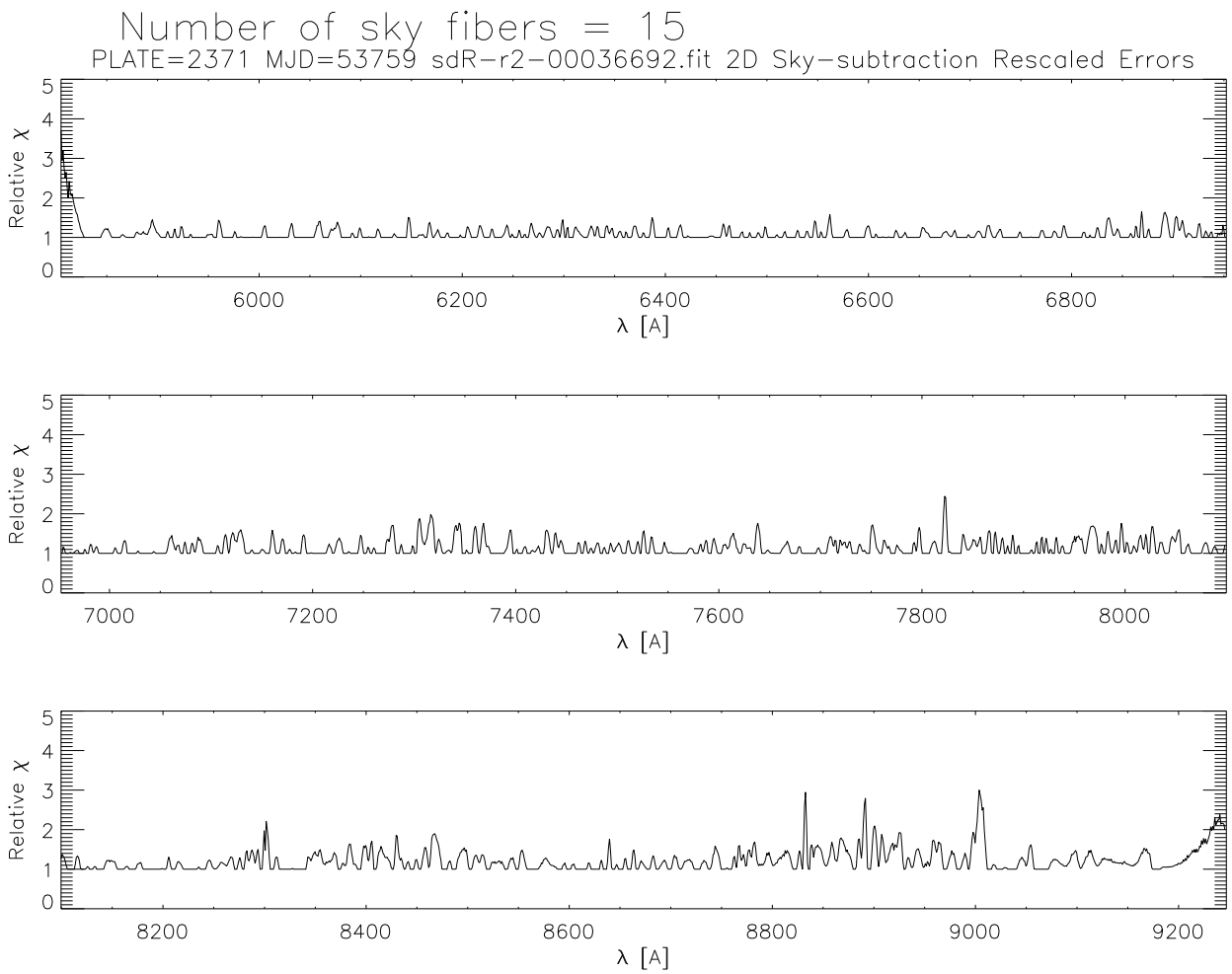

PLATE=2371 MJD=53759 sdR-r2-00036692.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

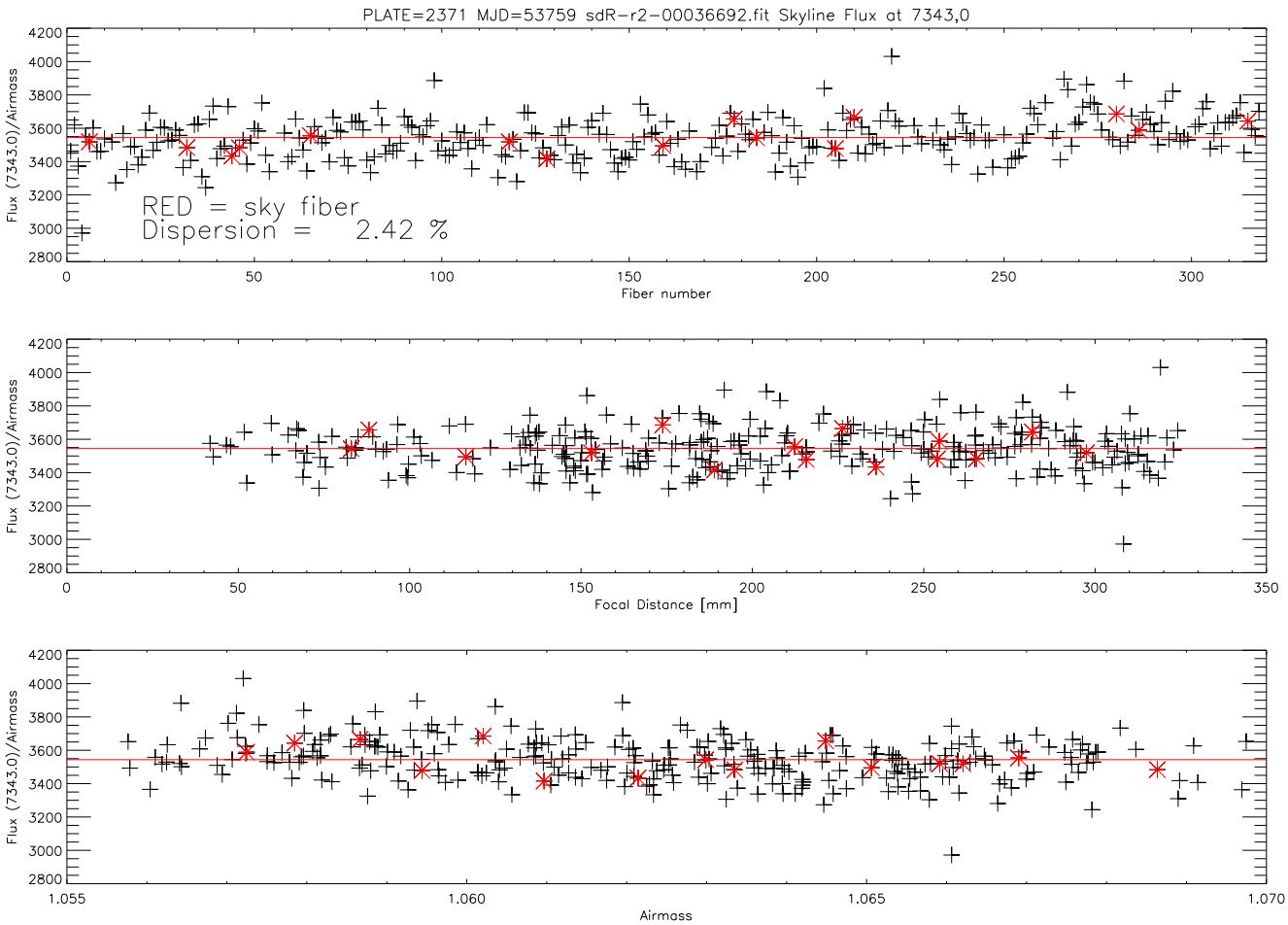

Number of sky fibers = 15
PLATE=2371 MJD=53759 sdR-r2-00036692.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

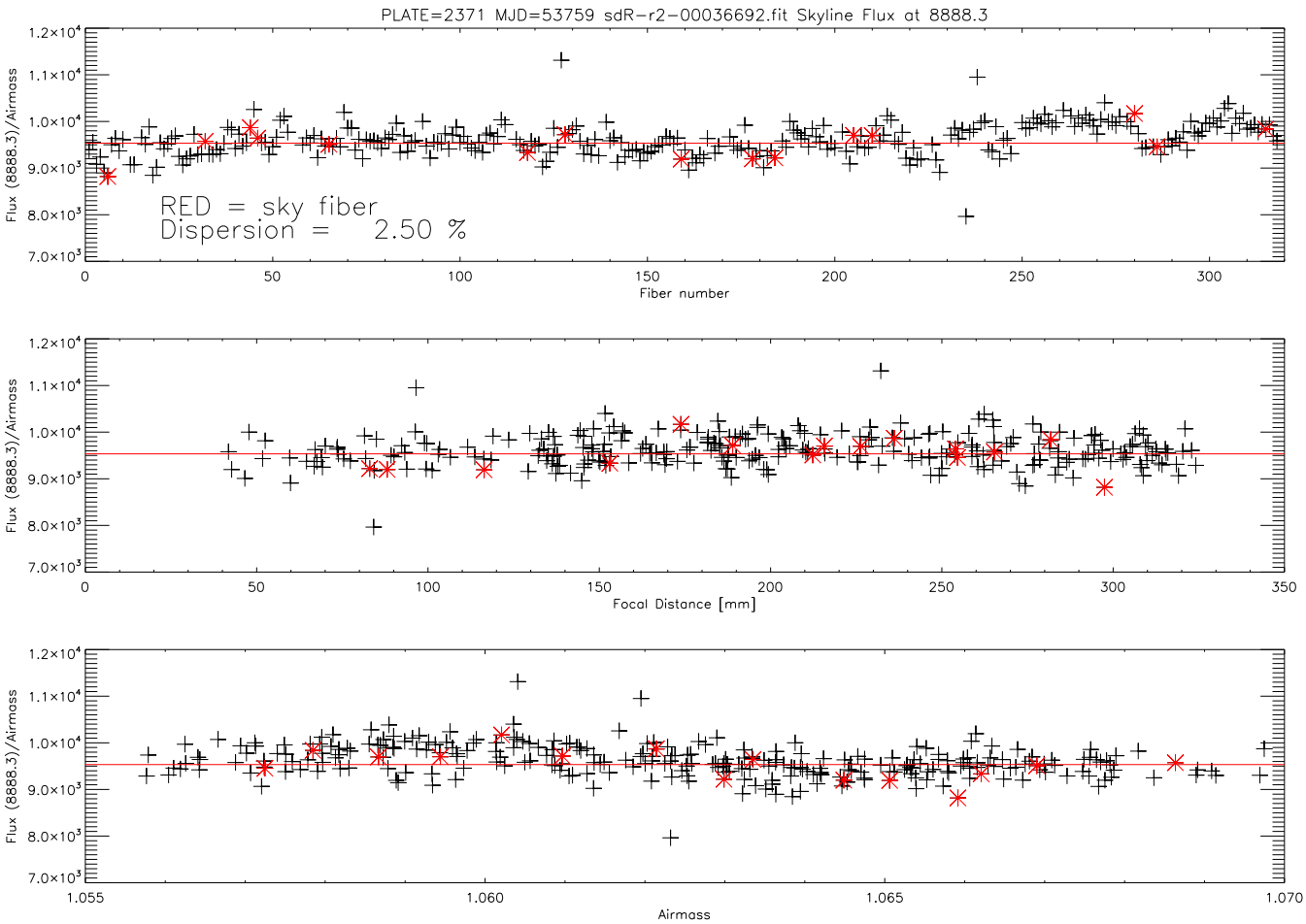

PLATE=2371 MJD=53759 sdR-r2-00036692.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

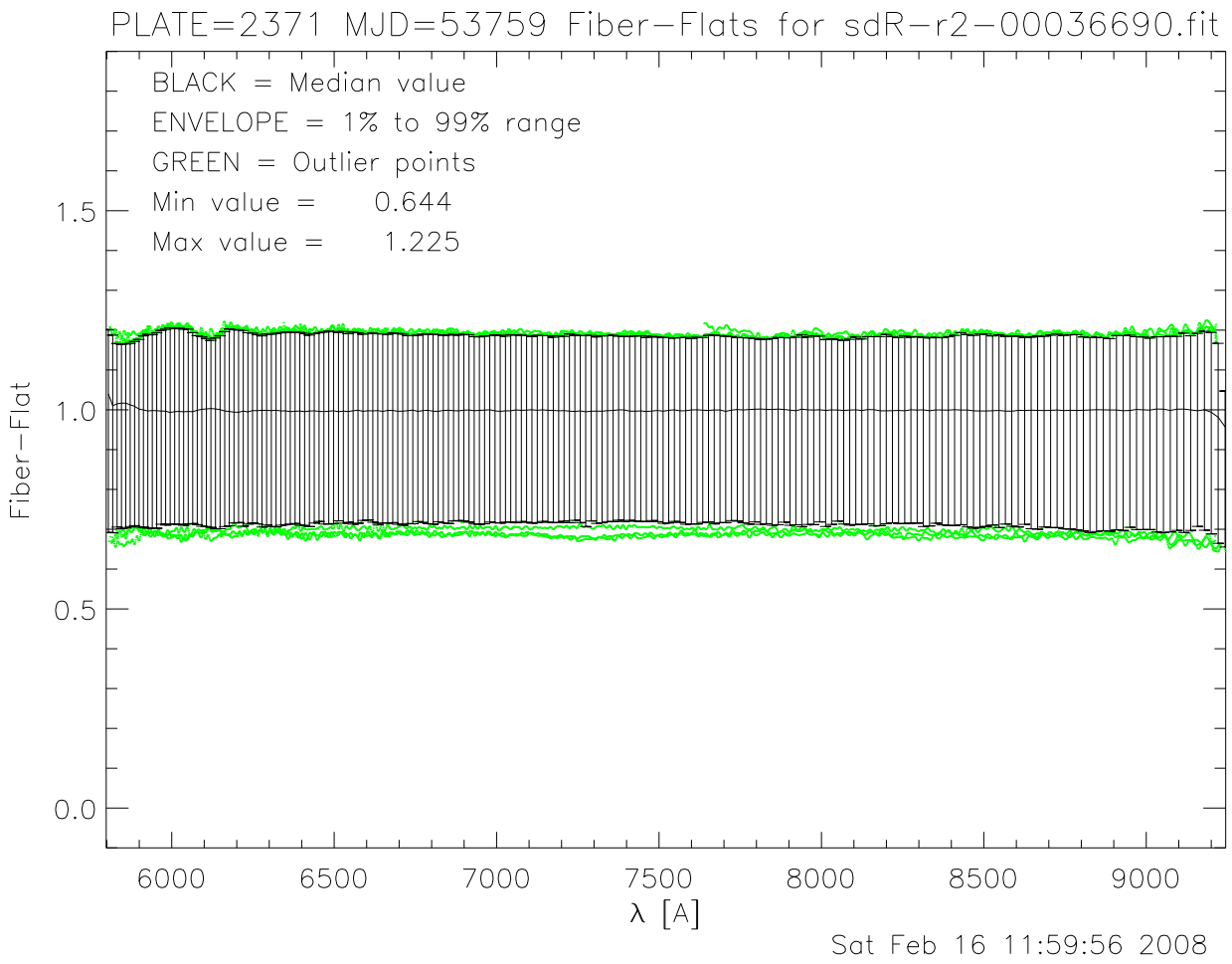

PLATE=2371 MJD=53759 sdR-r2-00036692.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

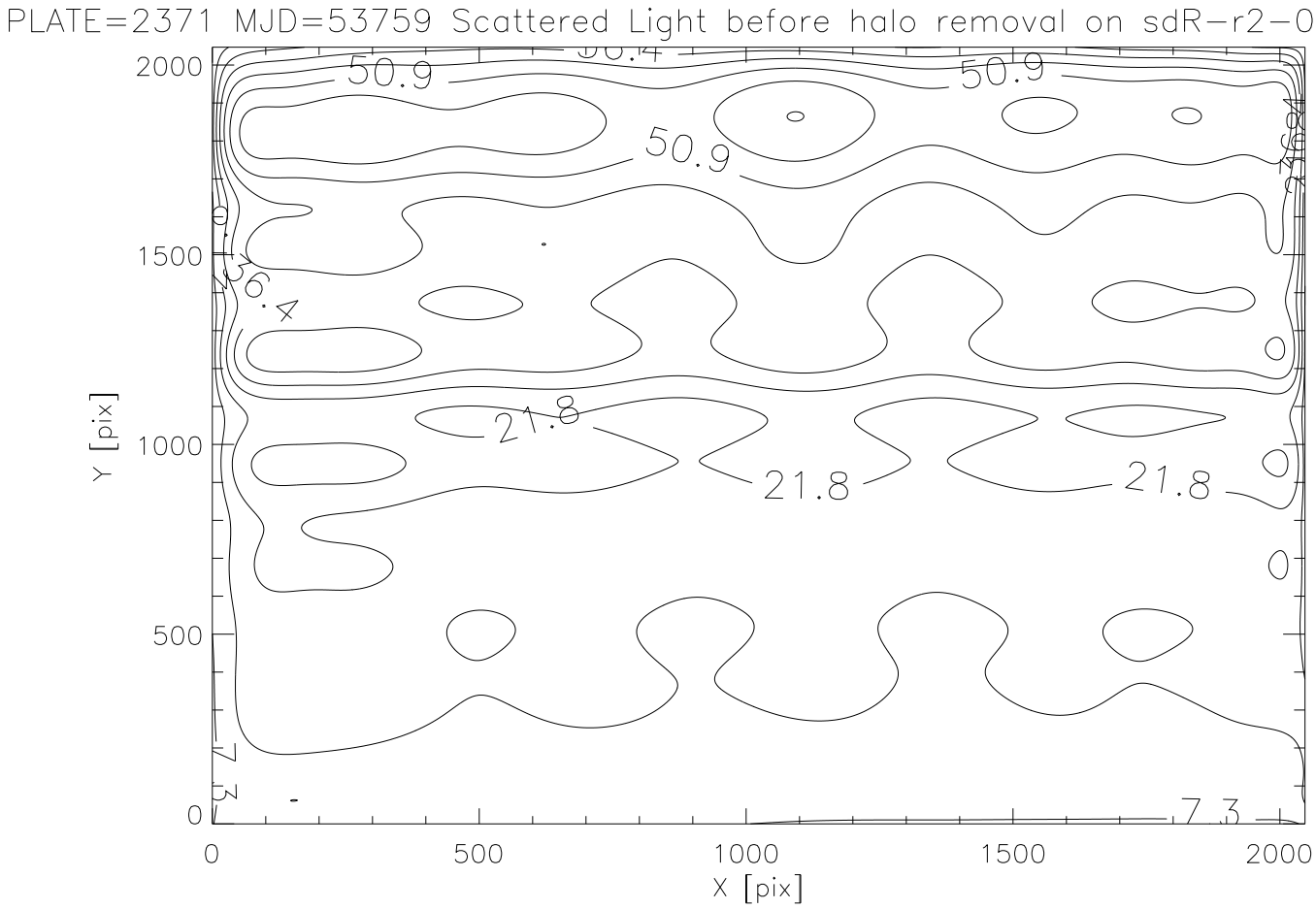

PLATE=2371 MJD=53759 sdR-r2-00036692.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

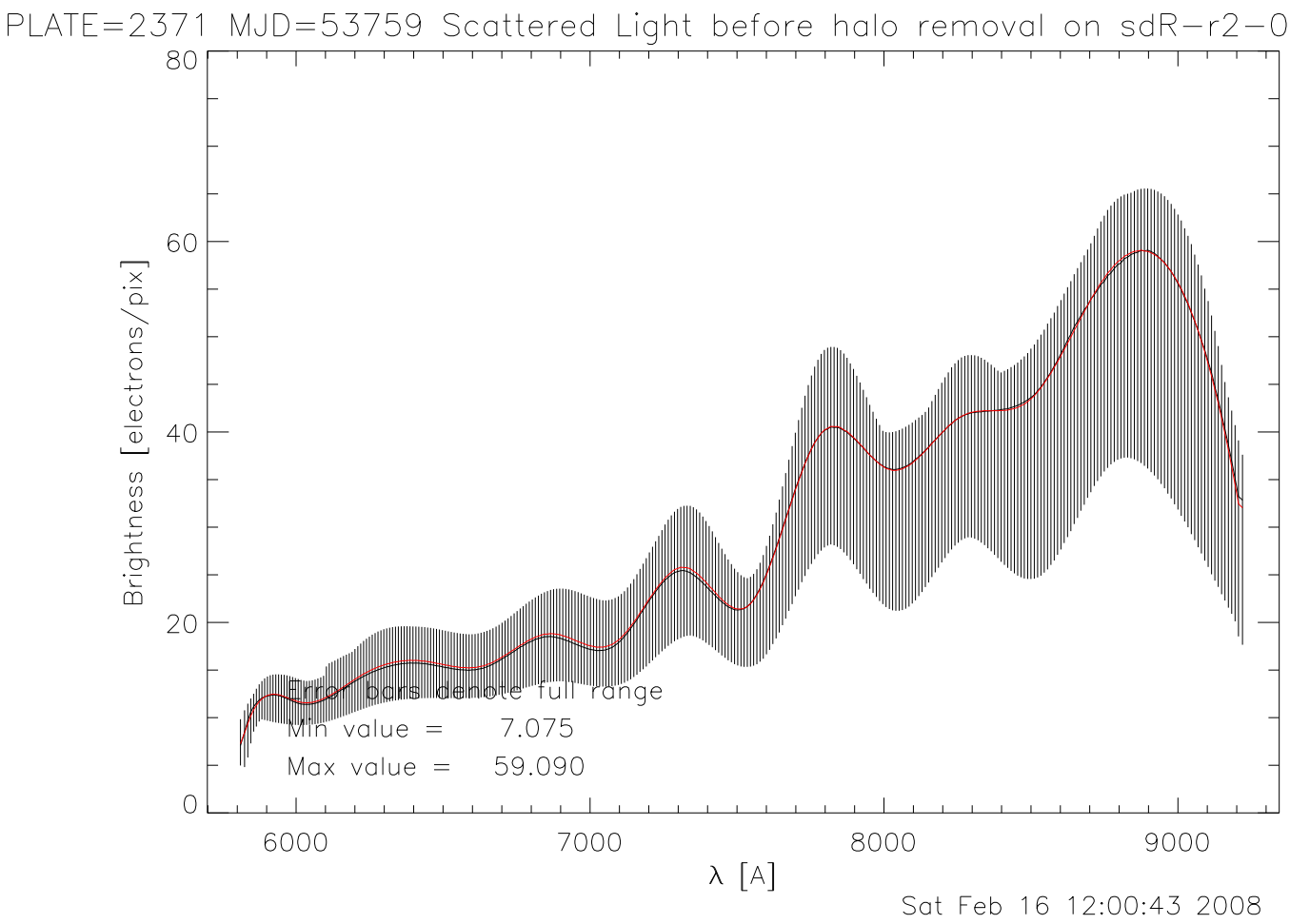

Number of sky fibers = 15
PLATE=2371 MJD=53759 sdR-r2-00036692.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

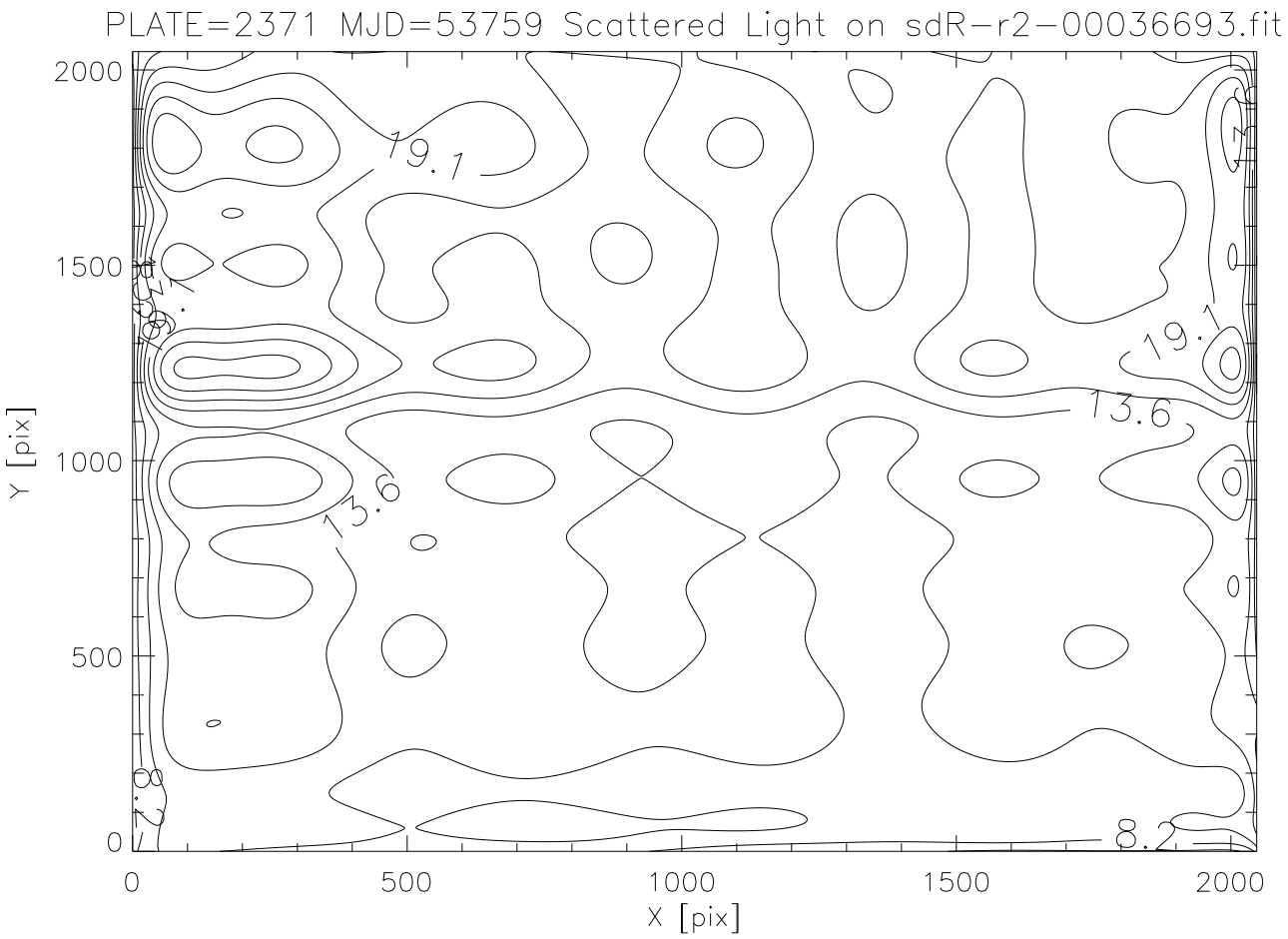

PLATE=2371 MJD=53759 sdR-r2-00036692.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.42 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

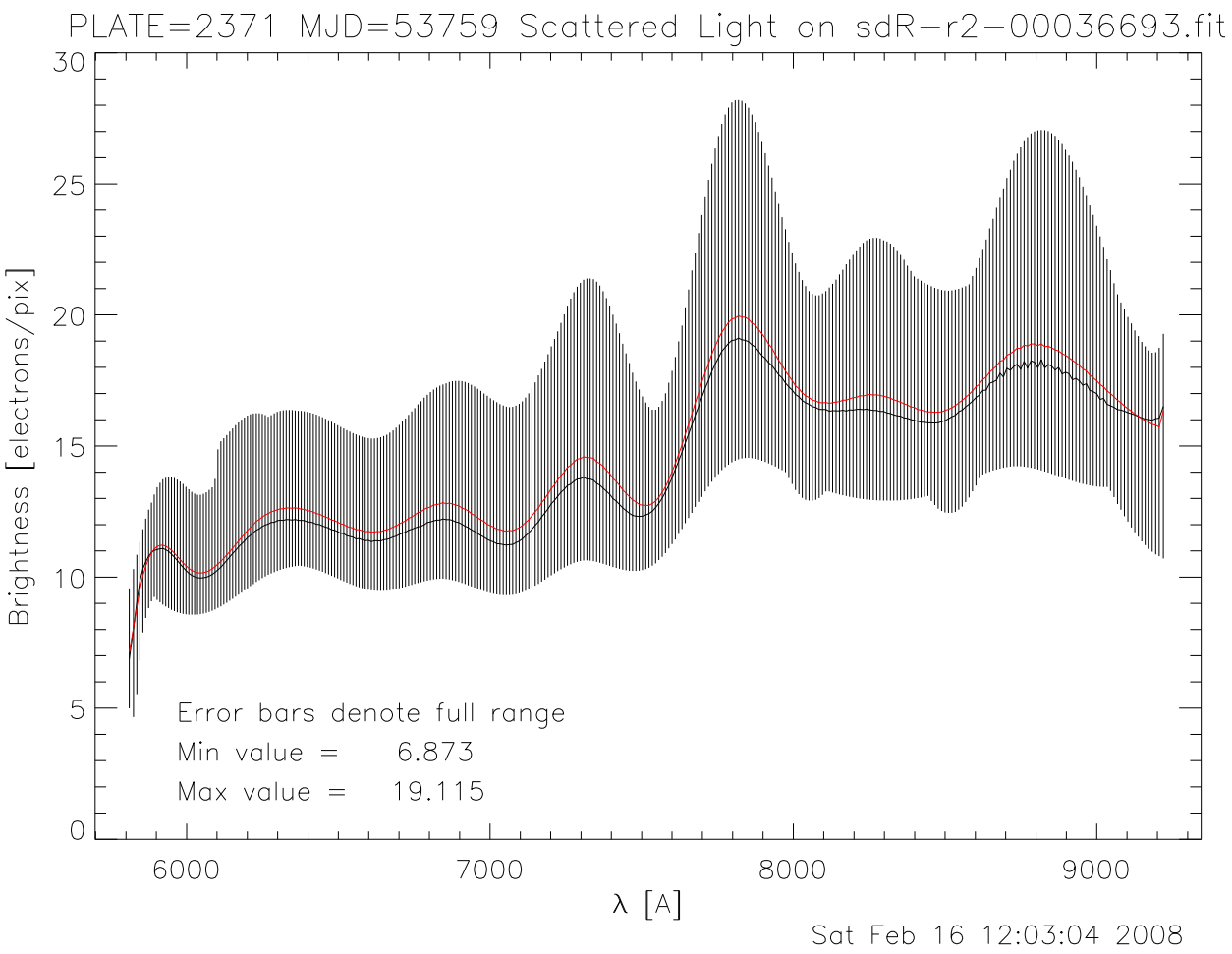

PLATE=2371 MJD=53759 sdR-r2-00036692.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.50 %
Fiber number
Focal Distance [mm]
Airmass

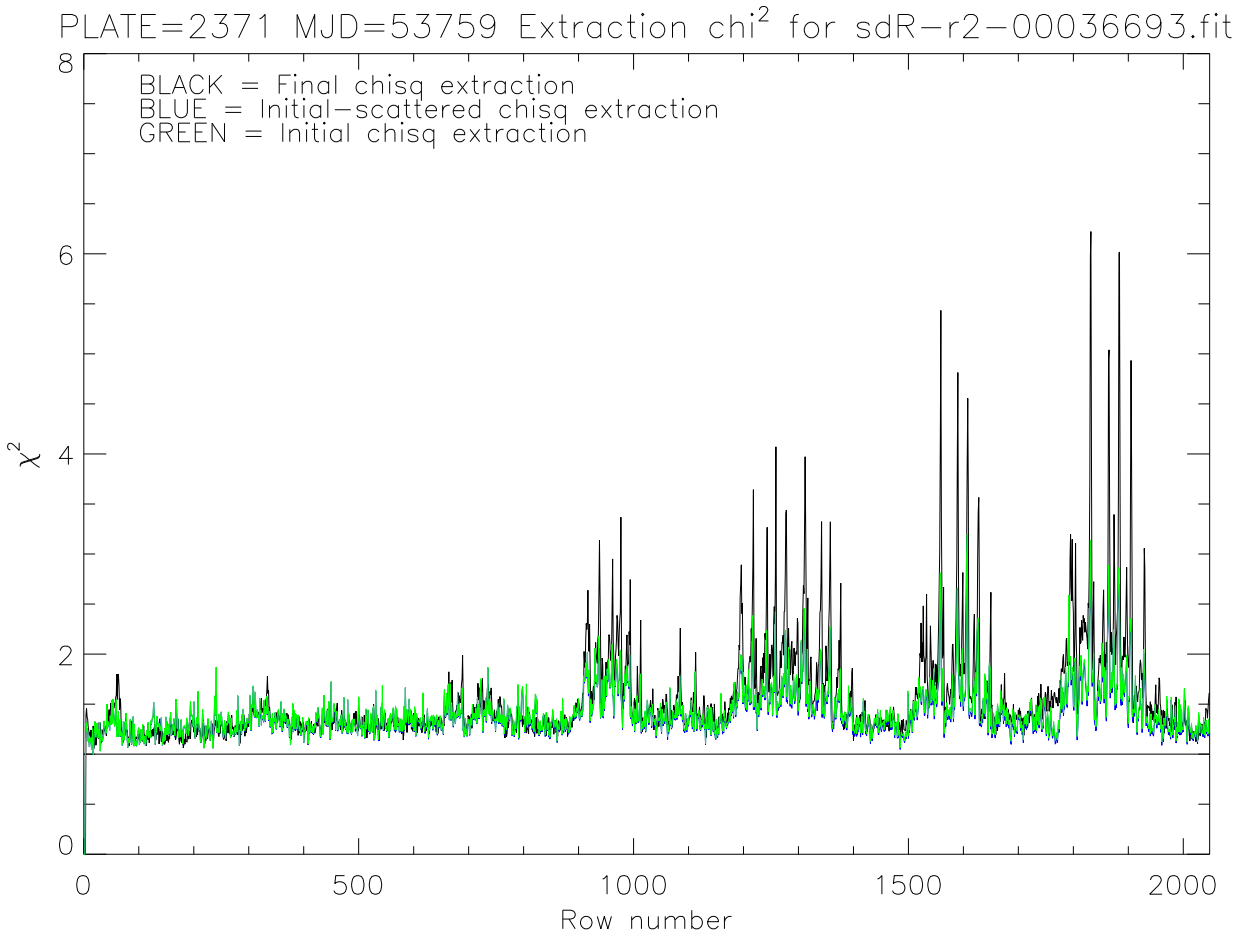

PLATE=2371 MJD=53759 Fiber-Flats for sdR-r2-00036690.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.644
Max value = 1.225
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sat Feb 16 11:59:56 2008

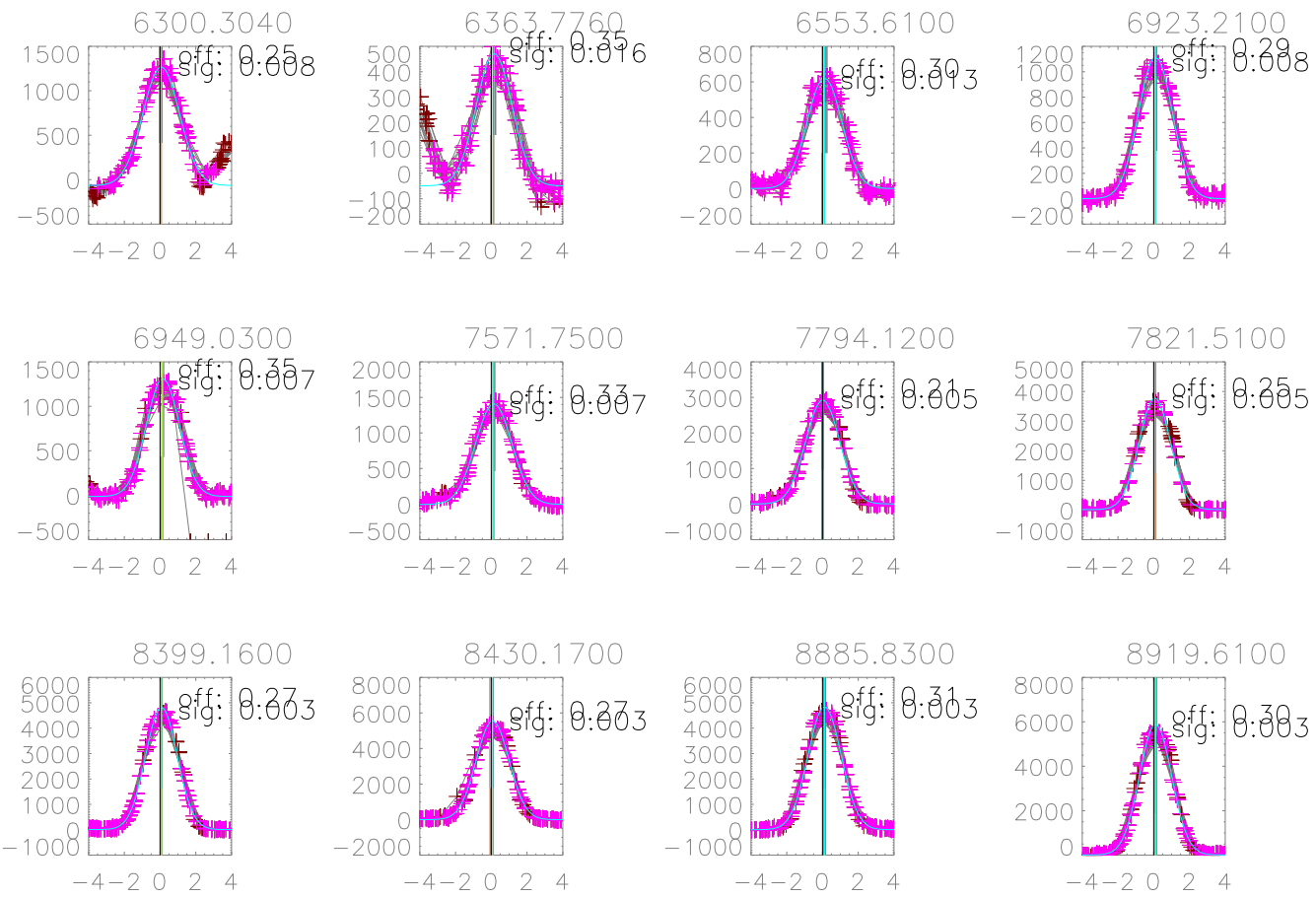

PLATE=2371 MJD=53759 Scattered Light before halo removal on sdR-r2-00036693.fi
50.9
50.9
50.9
36.4
21.8
21.8
21.8
7.3
Y [pix]
X [pix]
0
500
1000
1500
2000

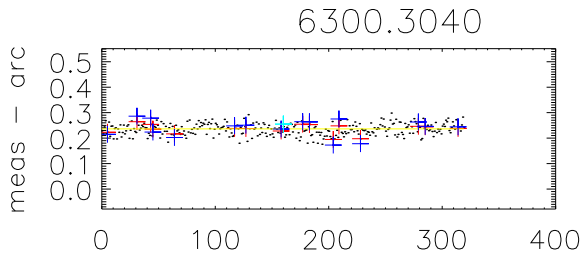

PLATE=2371 MJD=53759 Scattered Light before halo removal on sdR-r2-00036693.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.075
Max value = 59.090
Sat Feb 16 12:00:43 2008

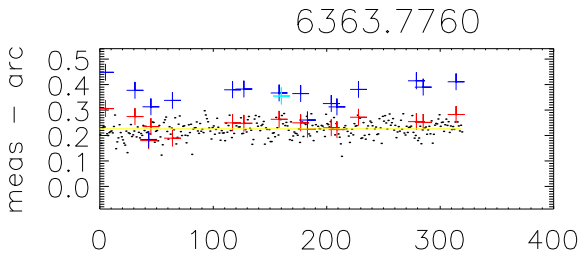

PLATE=2371 MJD=53759 Scattered Light on sdR-r2-00036693.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
19.1
13.6
8.2

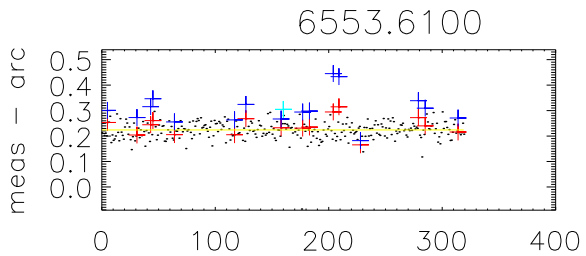

PLATE=2371 MJD=53759 Scattered Light on sdR-r2-00036693.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.873
Max value = 19.115
Sat Feb 16 12:03:04 2008

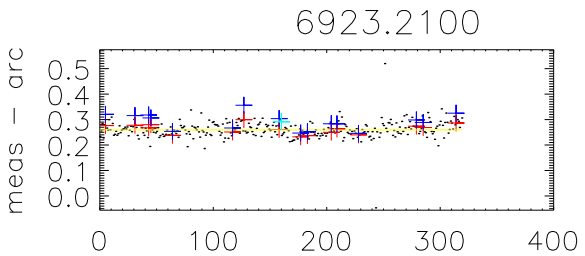

PLATE=2371 MJD=53759 Extraction chi^2 for sdR−r2−00036693.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

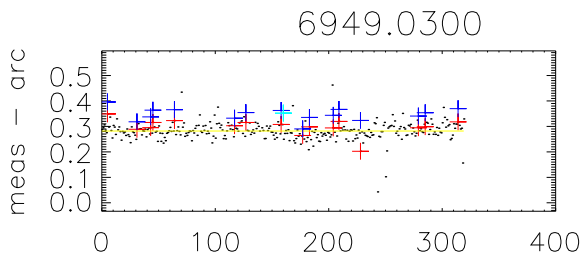

6300.3040
off: 0.25
sig: 0.008
6363.7760
off: 0.35
sig: 0.016
6553.6100
off: 0.30
sig: 0.013
6923.2100
off: 0.29
sig: 0.008
6949.0300
off: 0.35
sig: 0.007
7571.7500
off: 0.33
sig: 0.007
7794.1200
off: 0.21
sig: 0.005
7821.5100
off: 0.25
sig: 0.005
8399.1600
off: 0.27
sig: 0.003
8430.1700
off: 0.27
sig: 0.003
8885.8300
off: 0.31
sig: 0.003
8919.6100
off: 0.30
sig: 0.003

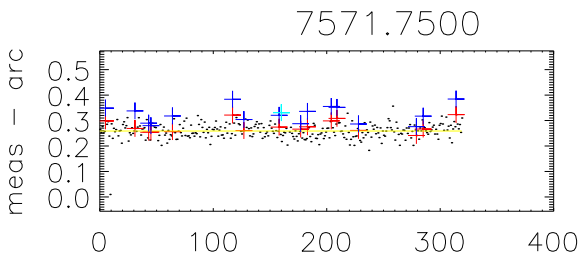

6300.3040
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

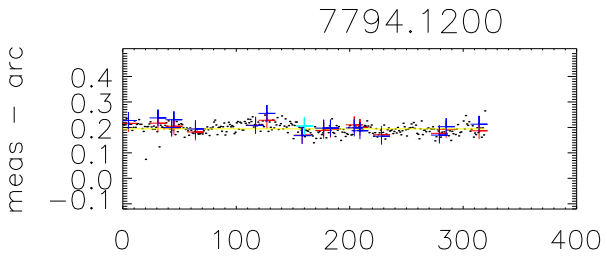

6363.7760
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

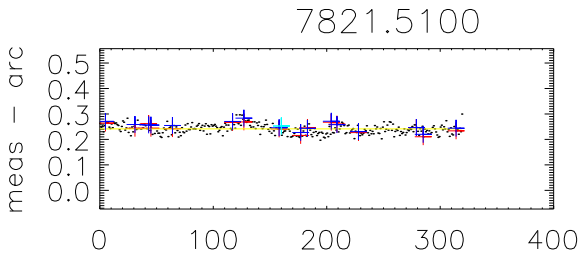

6553.6100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

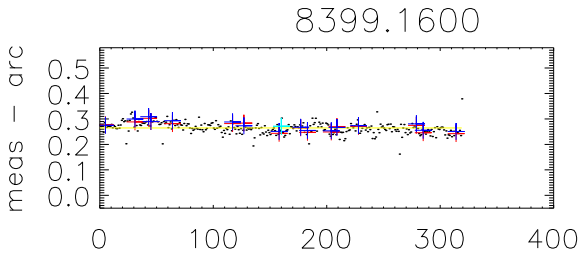

6923.2100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

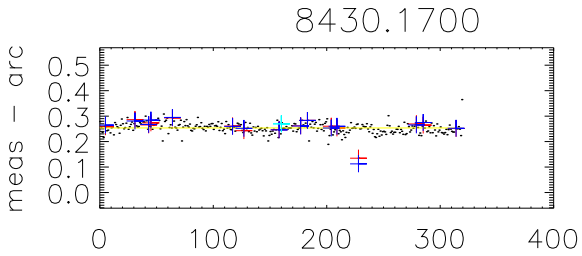

6949.0300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

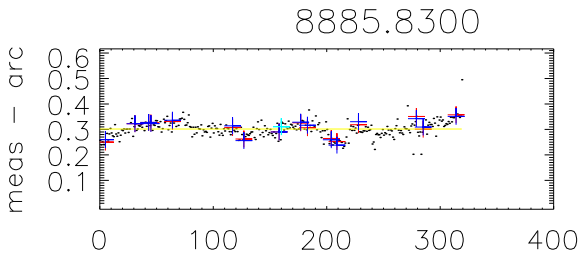

7571.7500
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

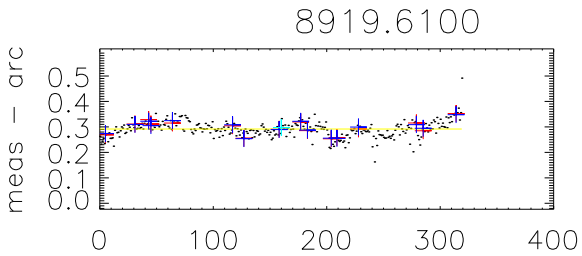

7794.1200
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

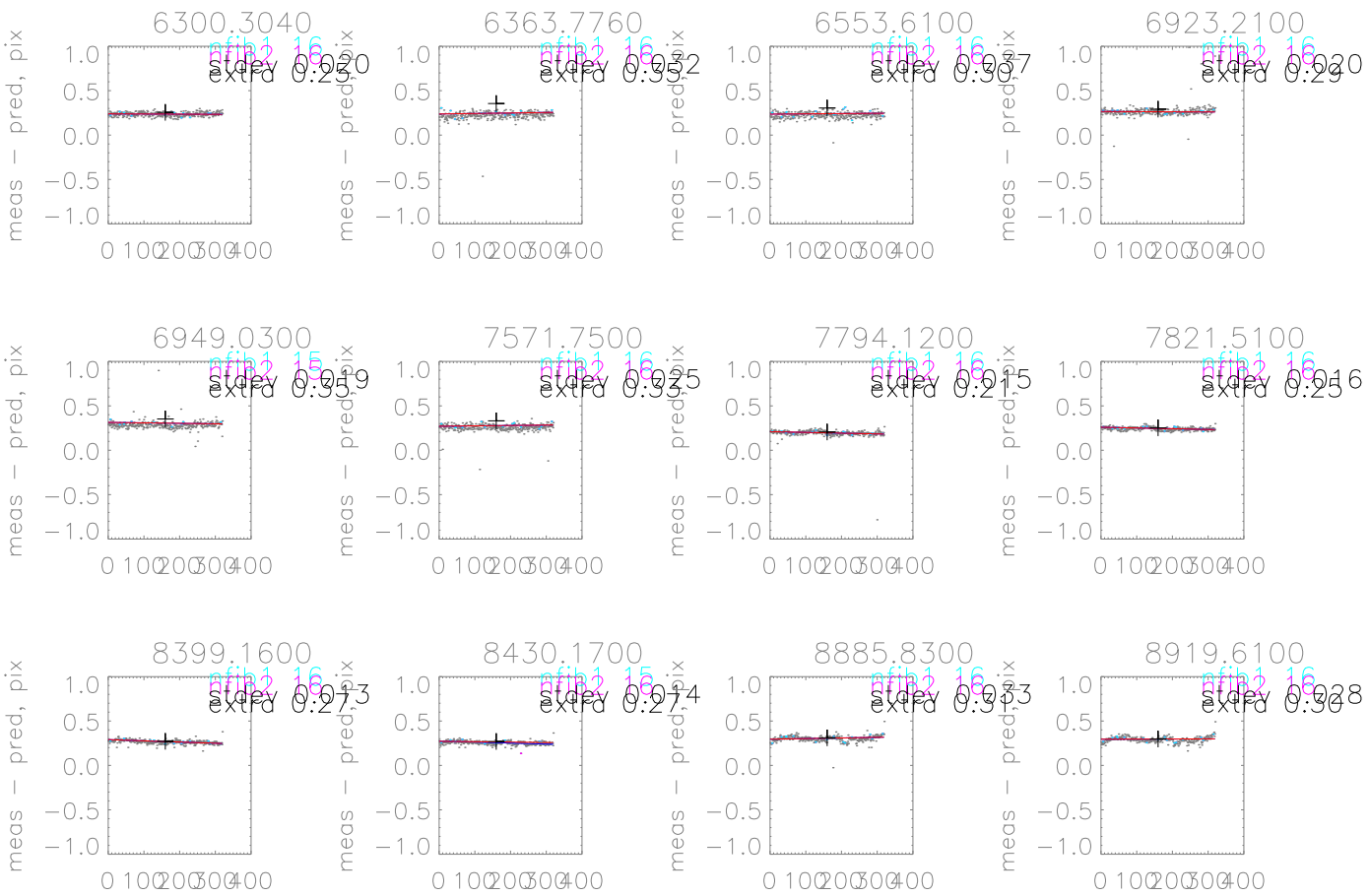

7821.5100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

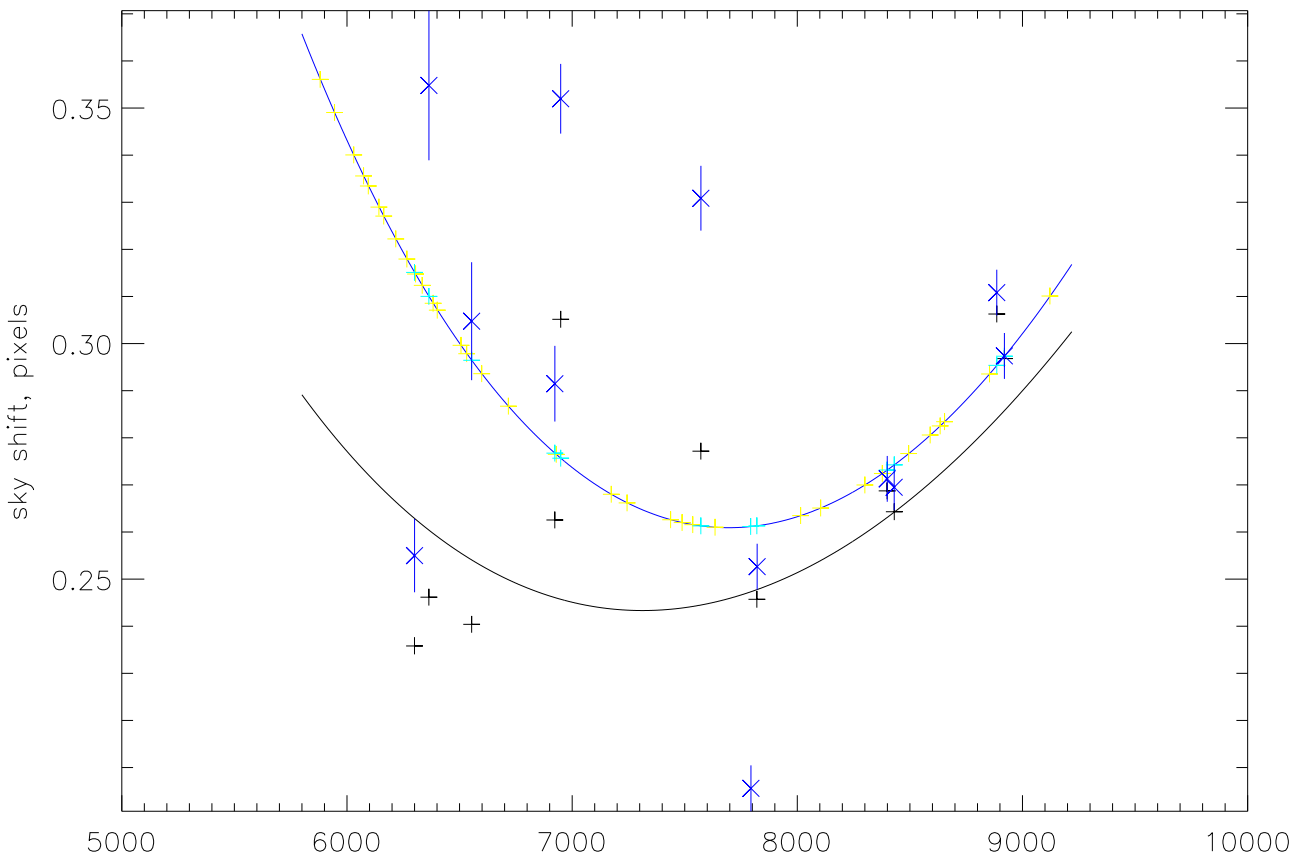

8399.1600
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

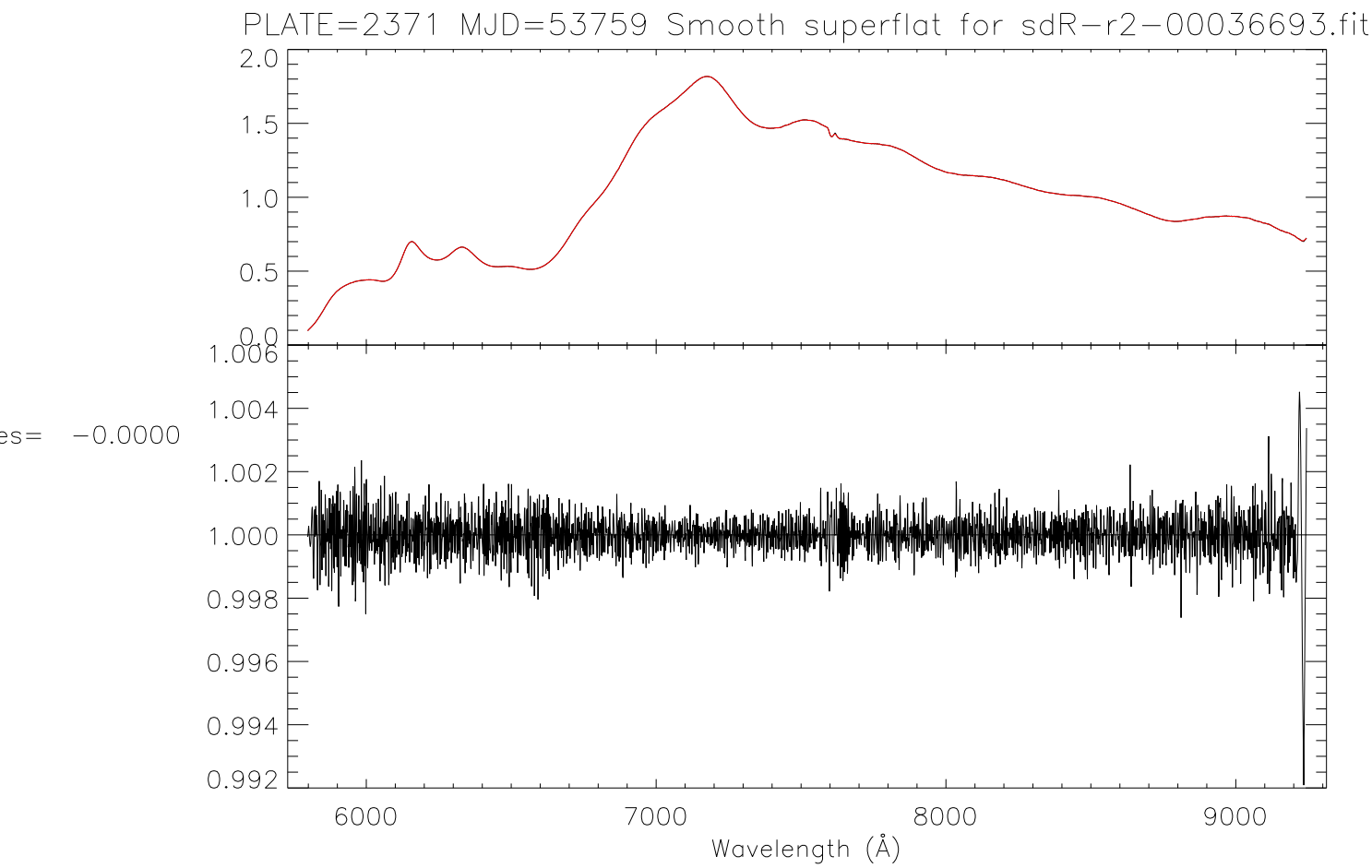

8430.1700
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

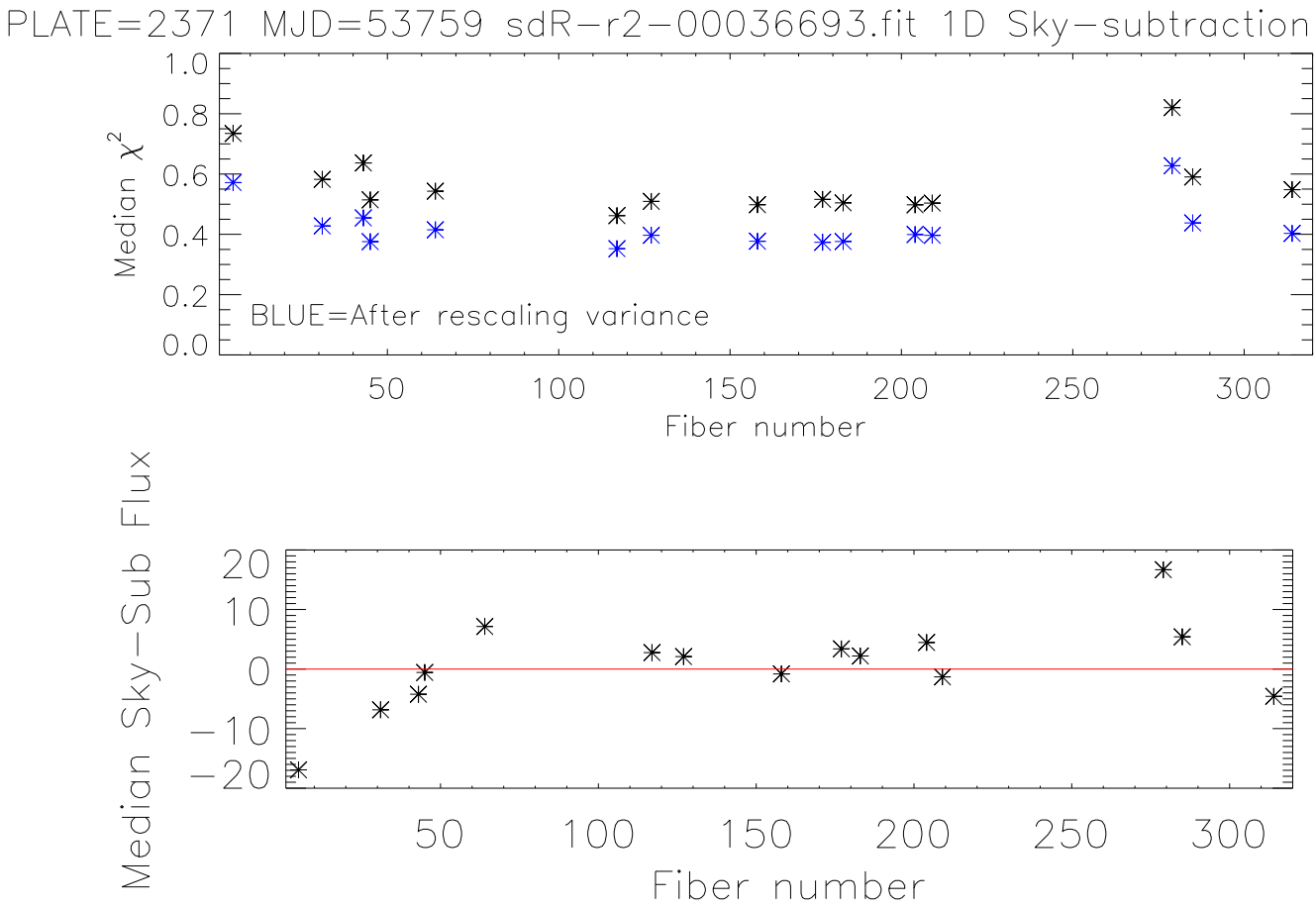

8885.8300
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

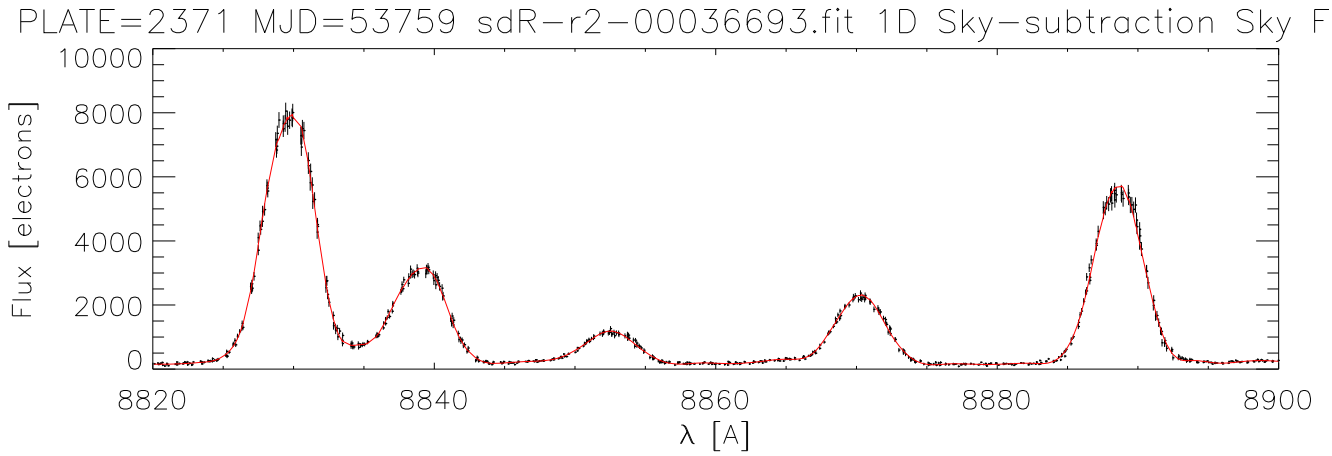

8919.6100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

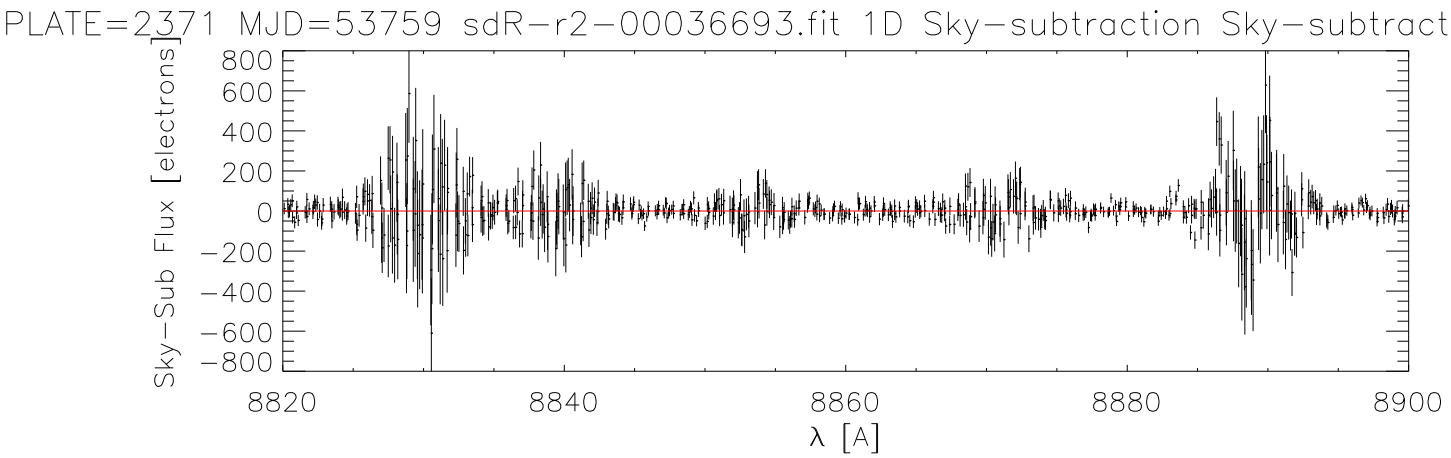

6300.3040
stdev 0.020
extra 0.25
6363.7760
stdev 0.032
extra 0.352
6553.6100
stdev 0.037
extra 0.307
6923.2100
stdev 0.020
extra 0.29
6949.0300
stdev 0.019
extra 0.359
7571.7500
stdev 0.025
extra 0.33
7794.1200
stdev 0.015
extra 0.215
7821.5100
stdev 0.016
extra 0.25
8399.1600
stdev 0.013
extra 0.27
8430.1700
stdev 0.014
extra 0.27
8885.8300
stdev 0.033
extra 0.313
8919.6100
stdev 0.028
extra 0.36
meas − pred, pix
mfib2 16
mfib1 15
mfib1 16

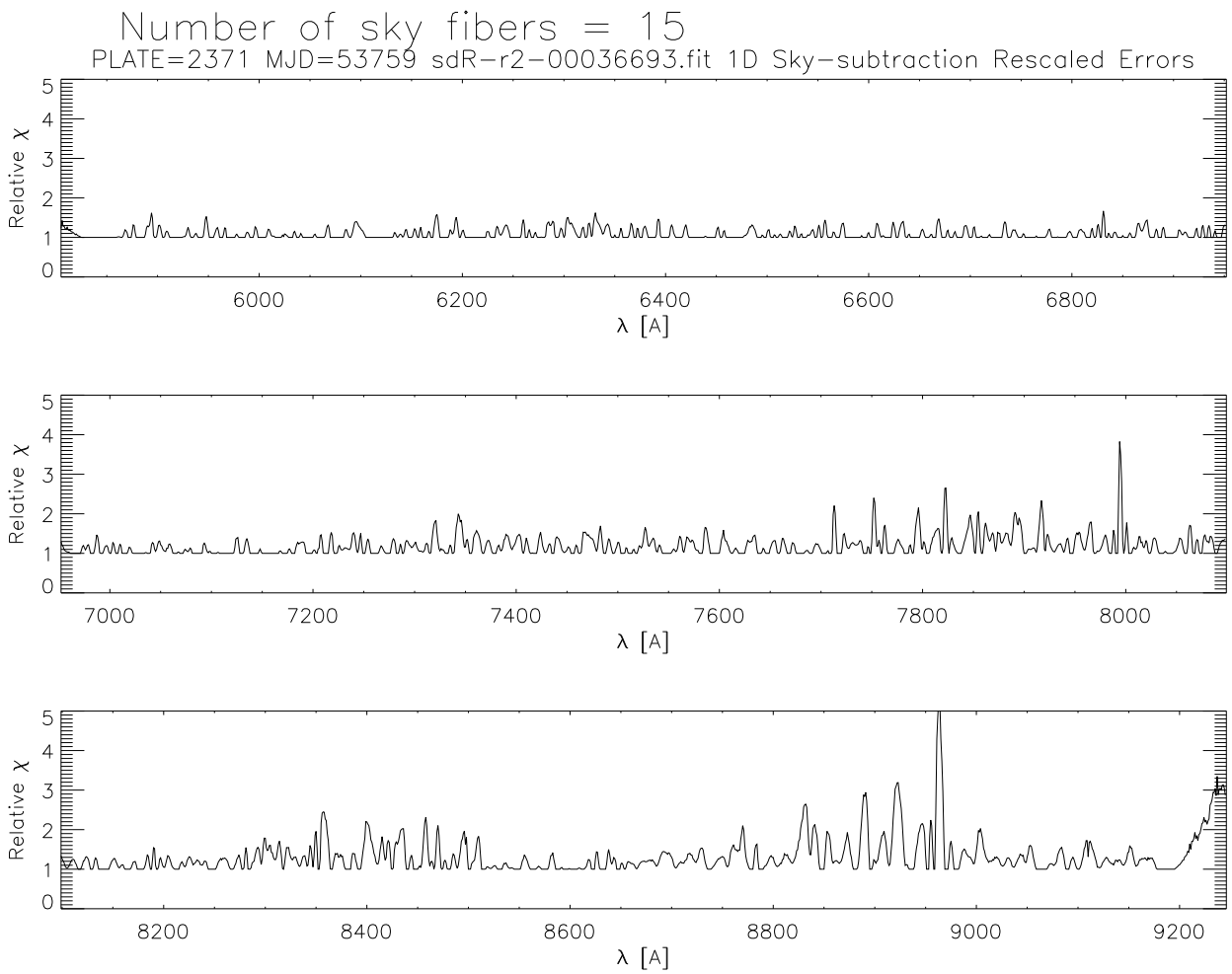

sky shift, pixels
0.35
0.30
0.25
5000
6000
7000
8000
9000
10000

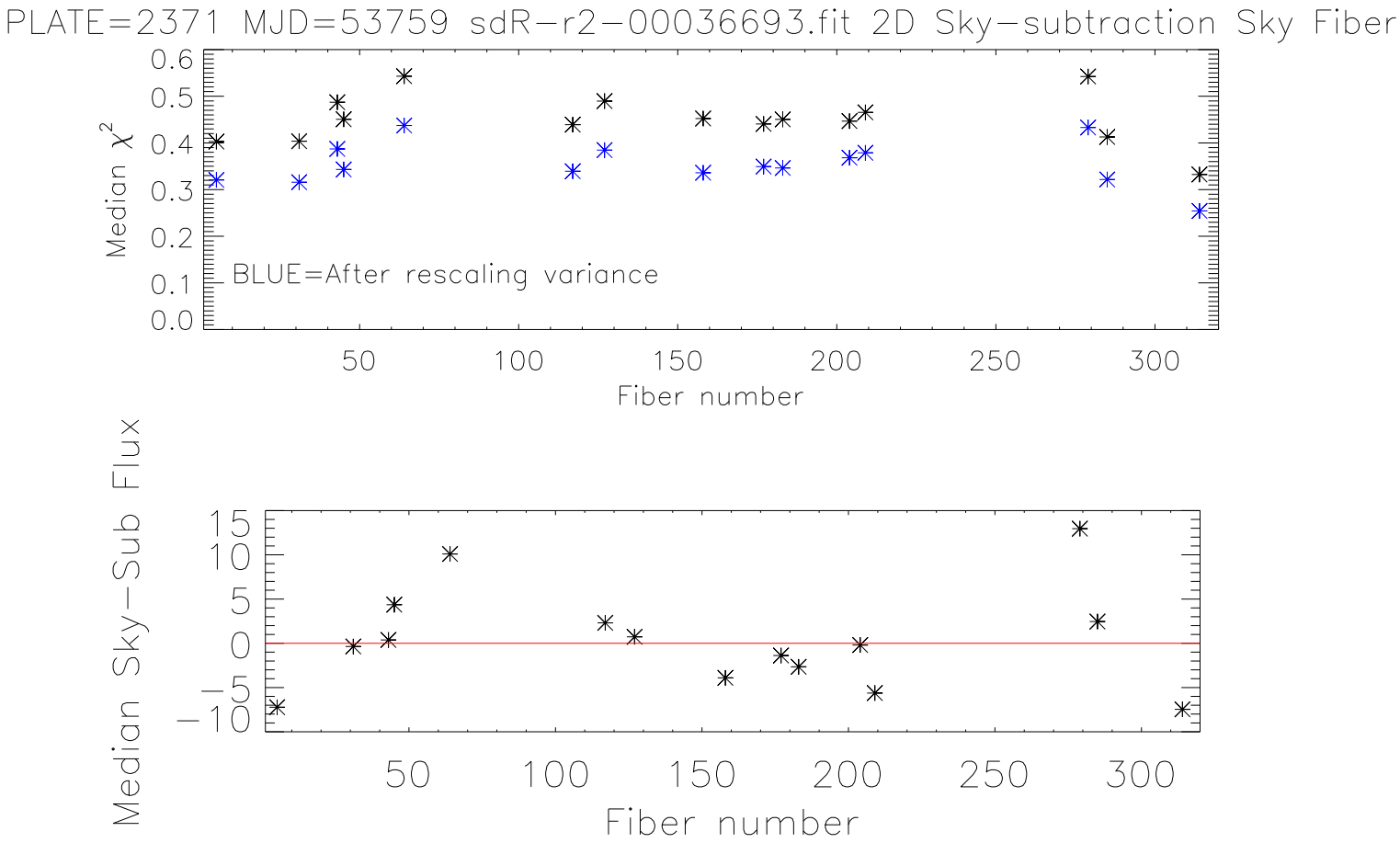

PLATE=2371 MJD=53759 Smooth superflat for sdR-r2-00036693.fit
es= -0.0000
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
6000
7000
8000
9000
Wavelength (Å)

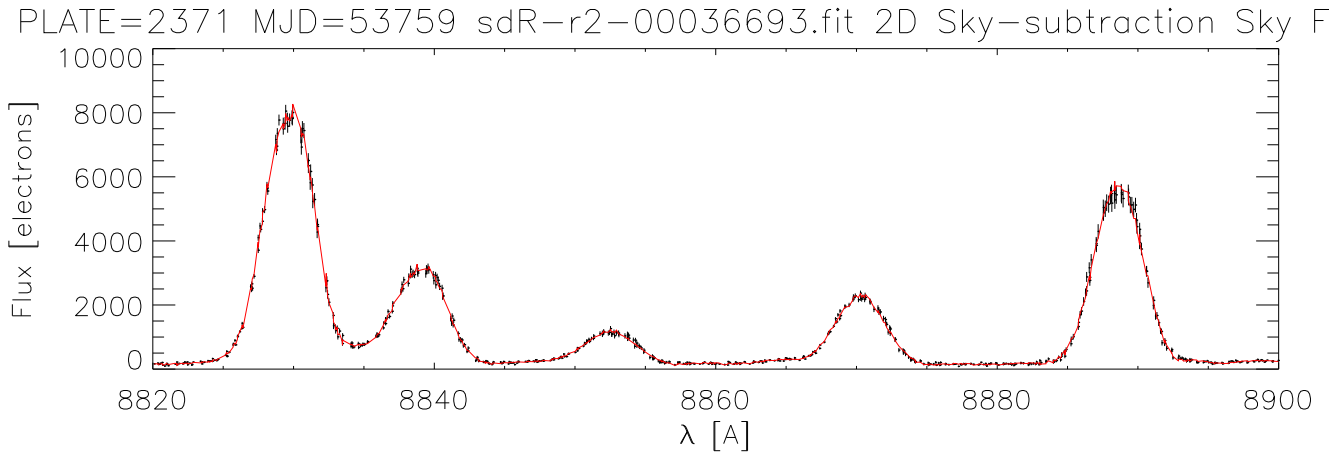

PLATE=2371 MJD=53759 sdR-r2-00036693.fit 1D Sky-subtraction Sky Fibers
Median χ^2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
10
0
-10
-20
50
100
150
200
250
300
Fiber number

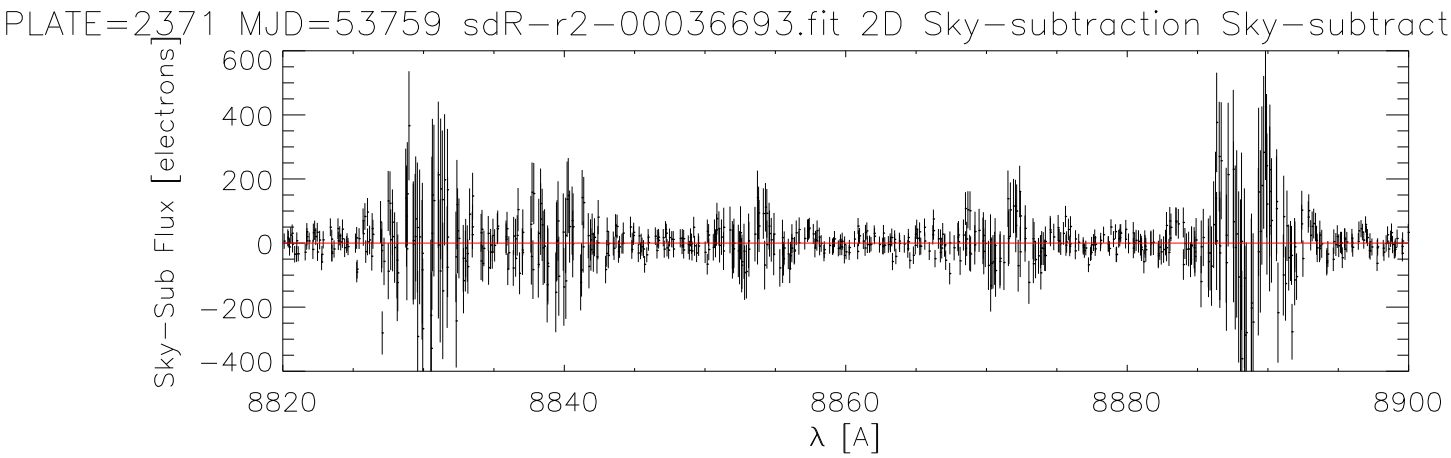

PLATE=2371 MJD=53759 sdR-r2-00036693.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

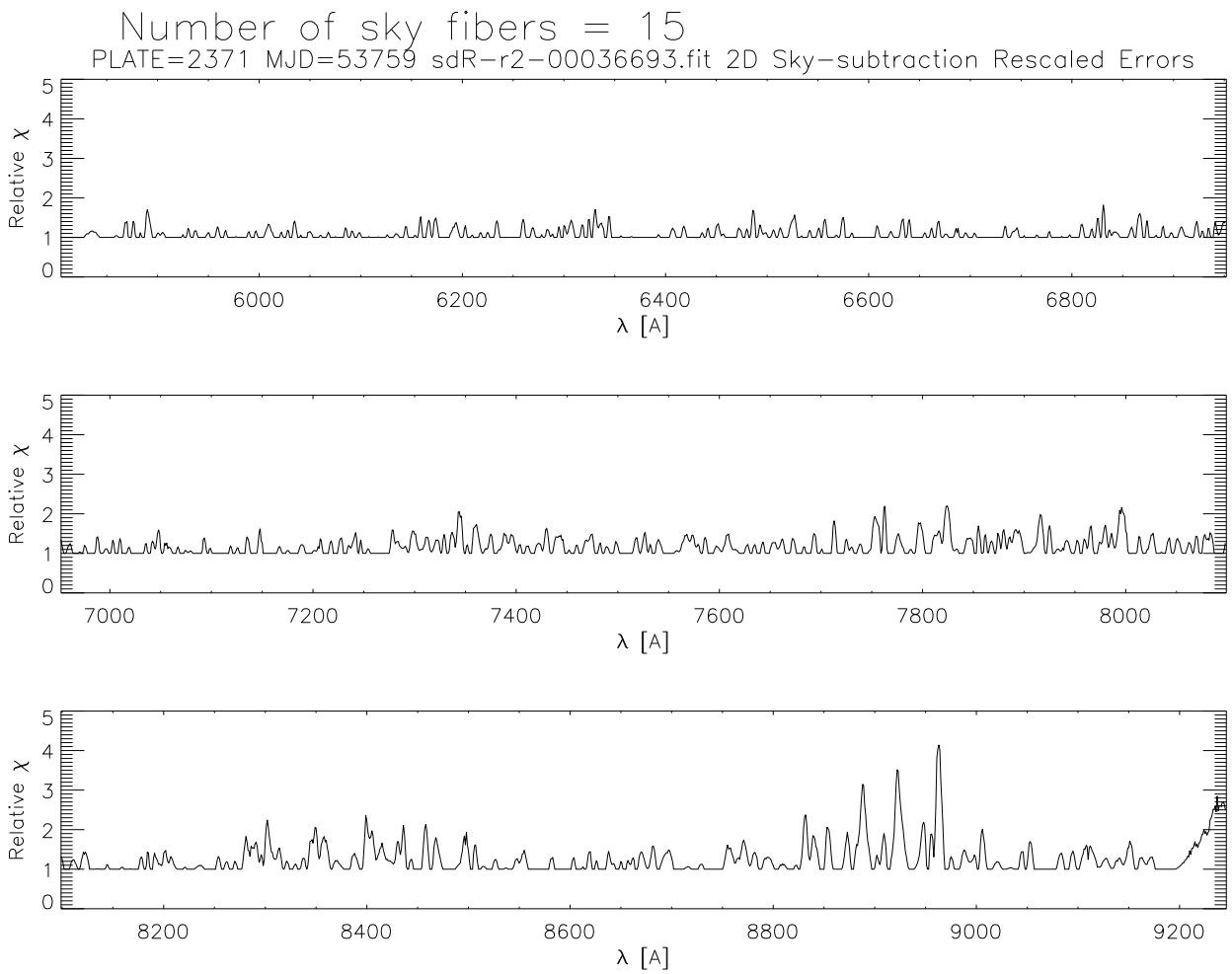

PLATE=2371 MJD=53759 sdR-r2-00036693.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
-400
-600
-800
8820
8840
8860
8880
8900
λ [A]

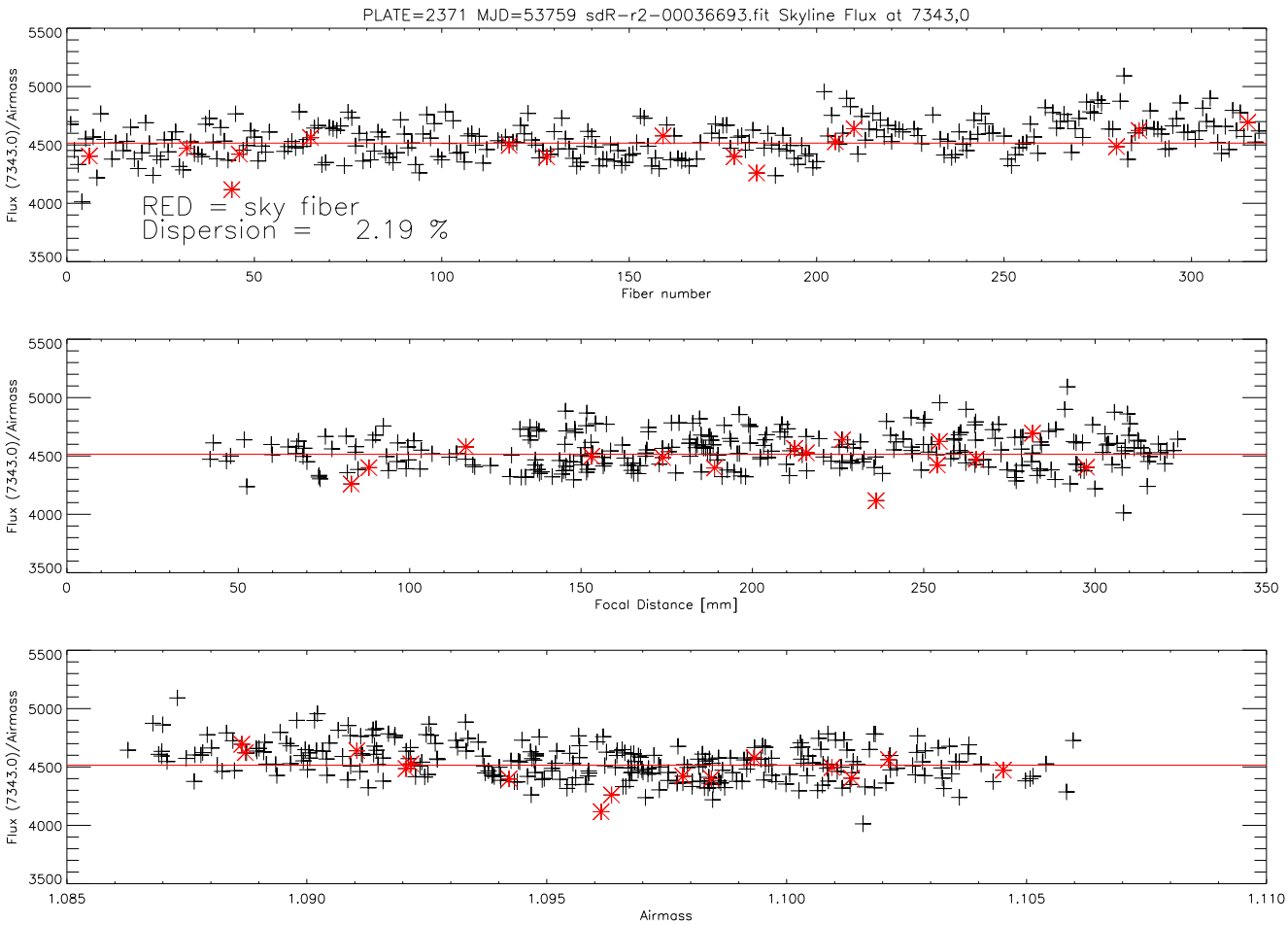

Number of sky fibers = 15
PLATE=2371 MJD=53759 sdR-r2-00036693.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

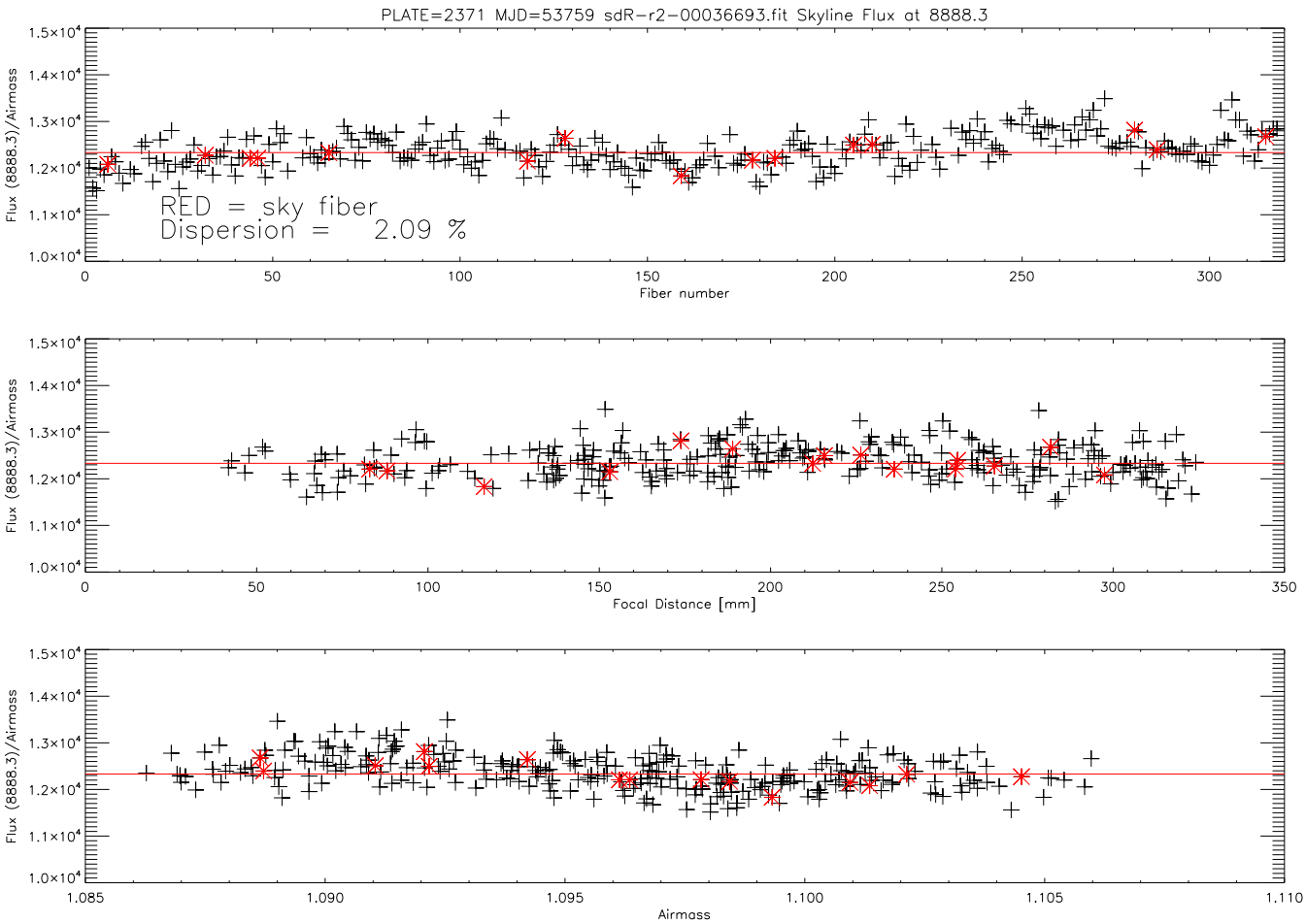

PLATE=2371 MJD=53759 sdR-r2-00036693.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number


PLATE=2371 MJD=53759 sdR-r2-00036693.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]


PLATE=2371 MJD=53759 sdR-r2-00036693.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]


Number of sky fibers = 15
PLATE=2371 MJD=53759 sdR-r2-00036693.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=2371 MJD=53759 sdR-r2-00036693.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.19 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass


PLATE=2371 MJD=53759 sdR-r2-00036693.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.09 %
Fiber number
Focal Distance [mm]
Airmass