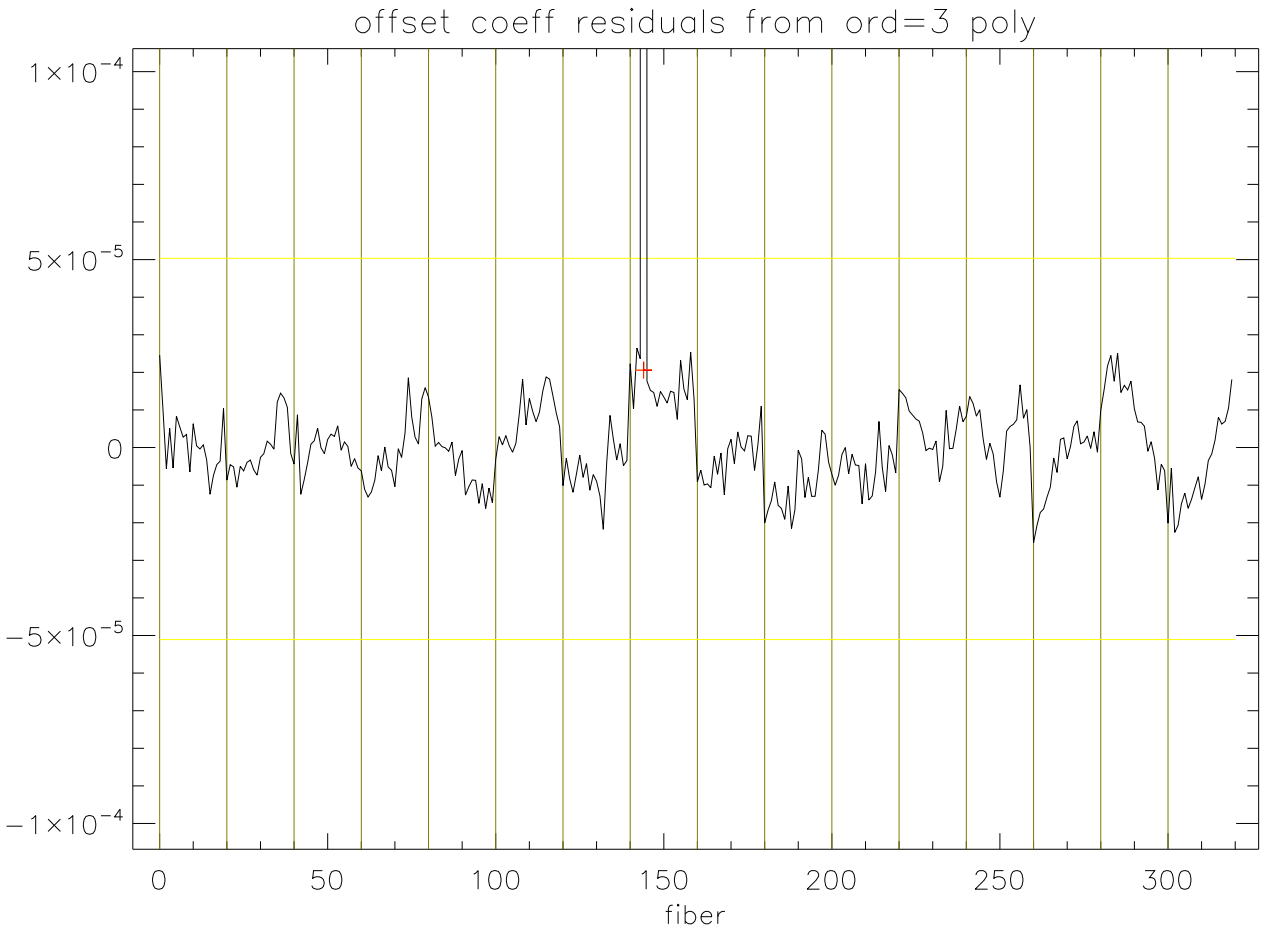
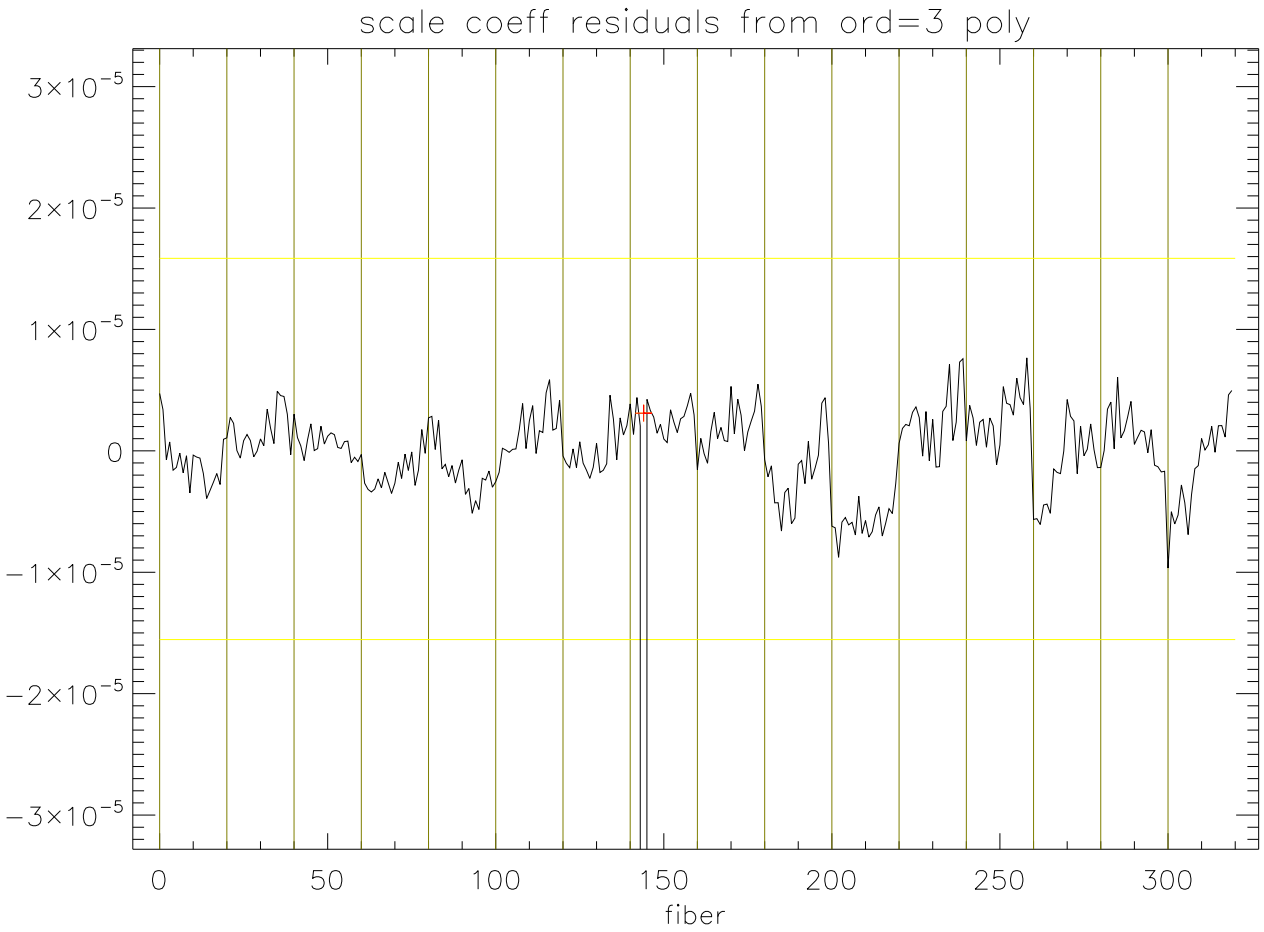
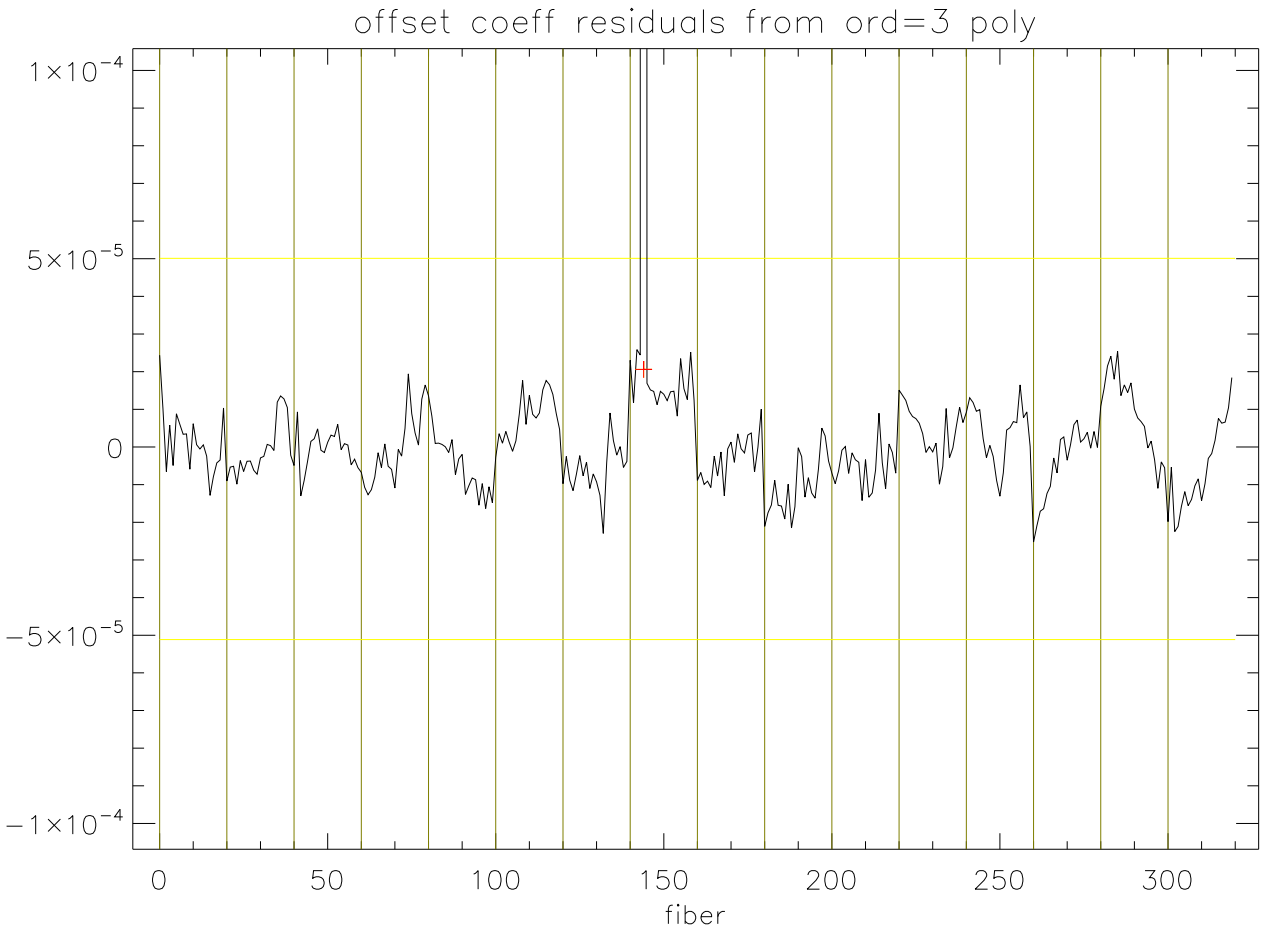
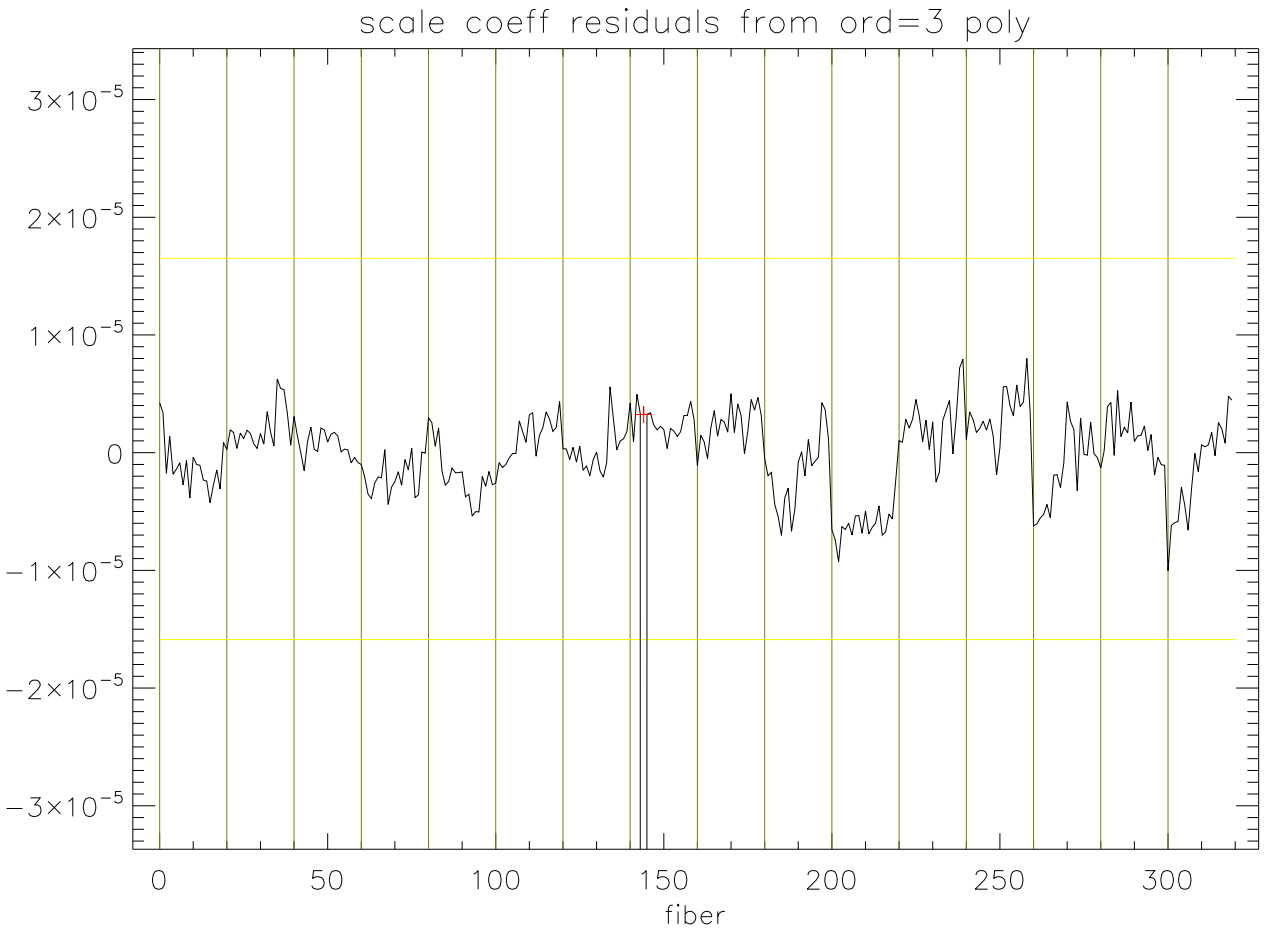
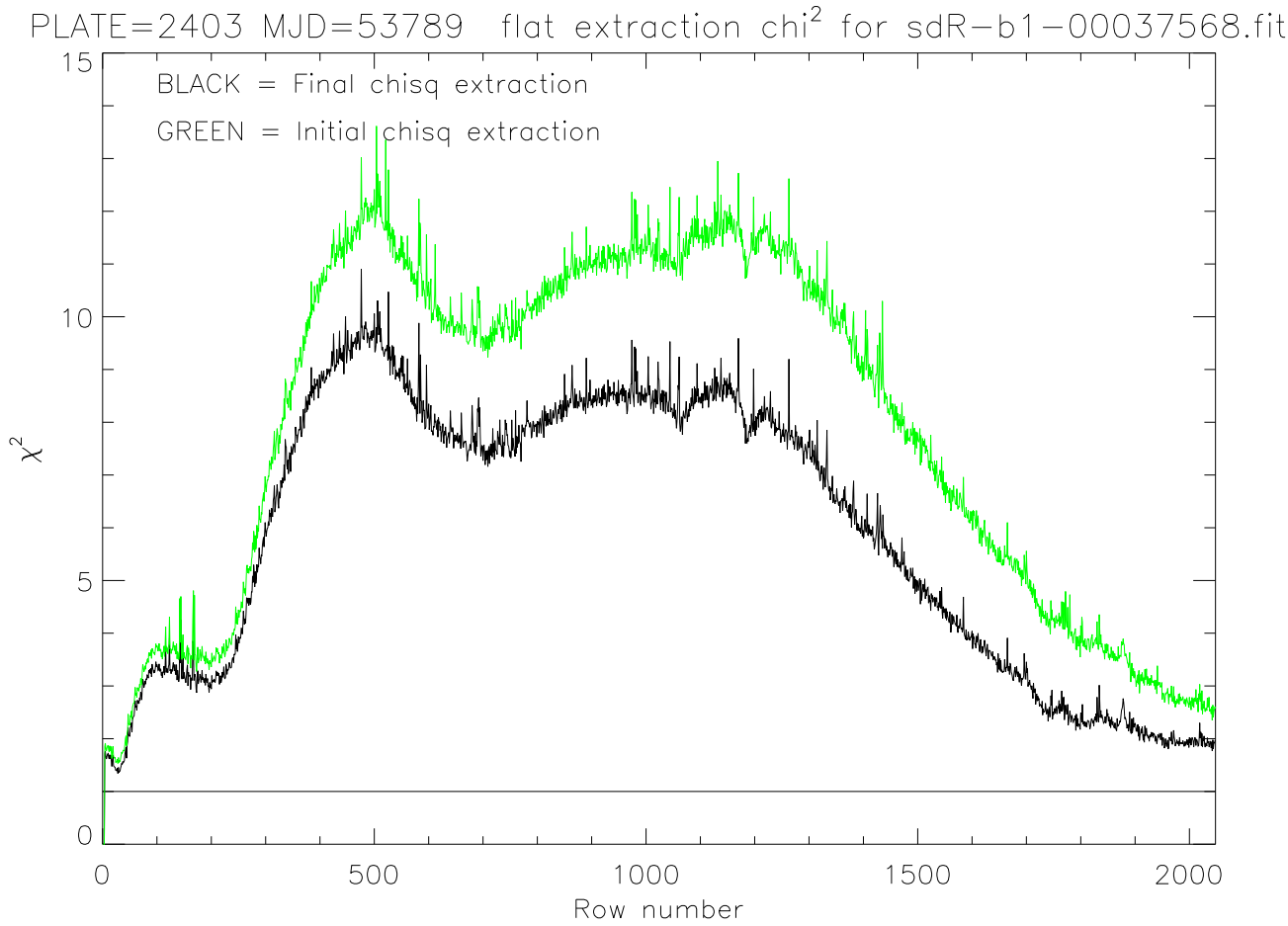
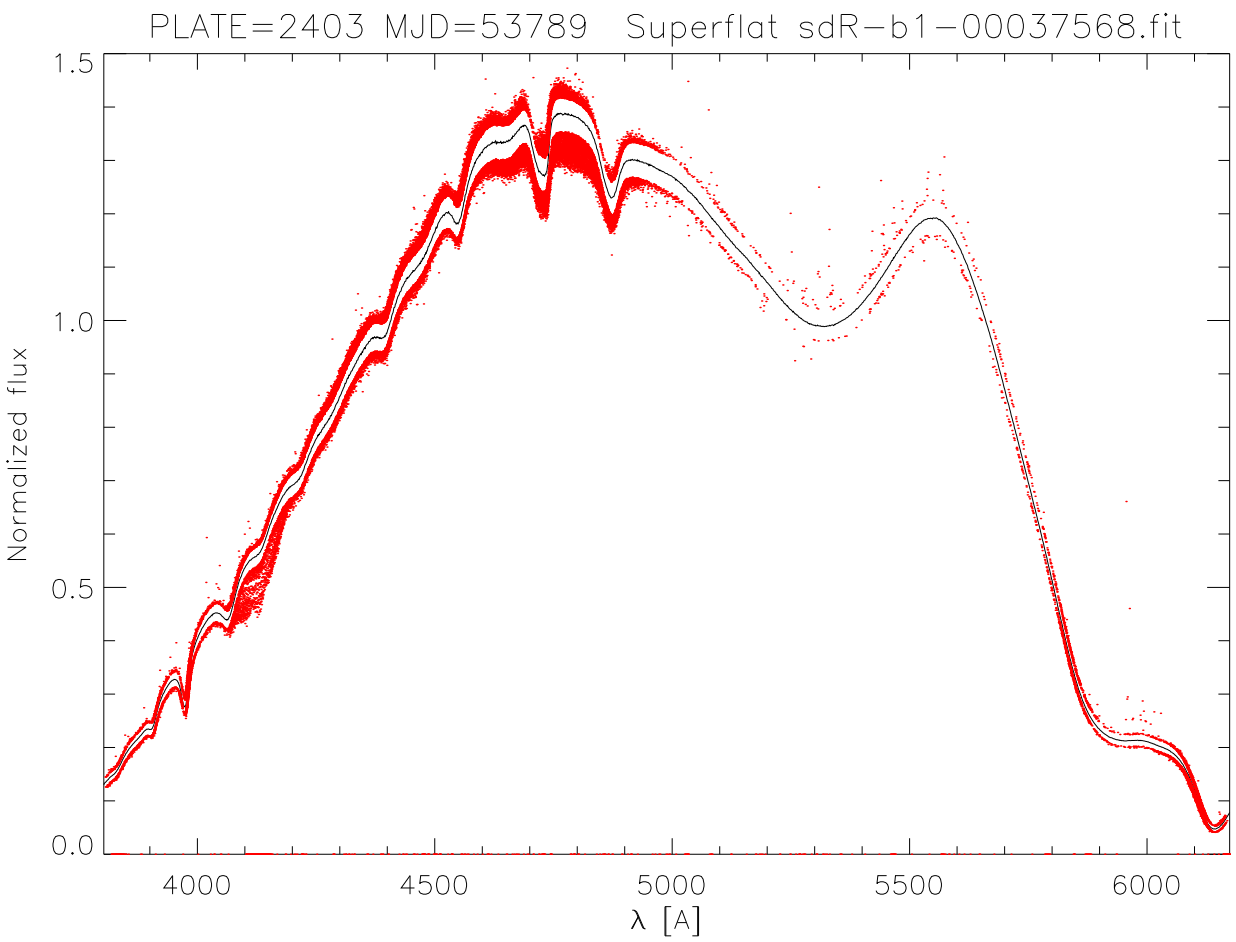

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

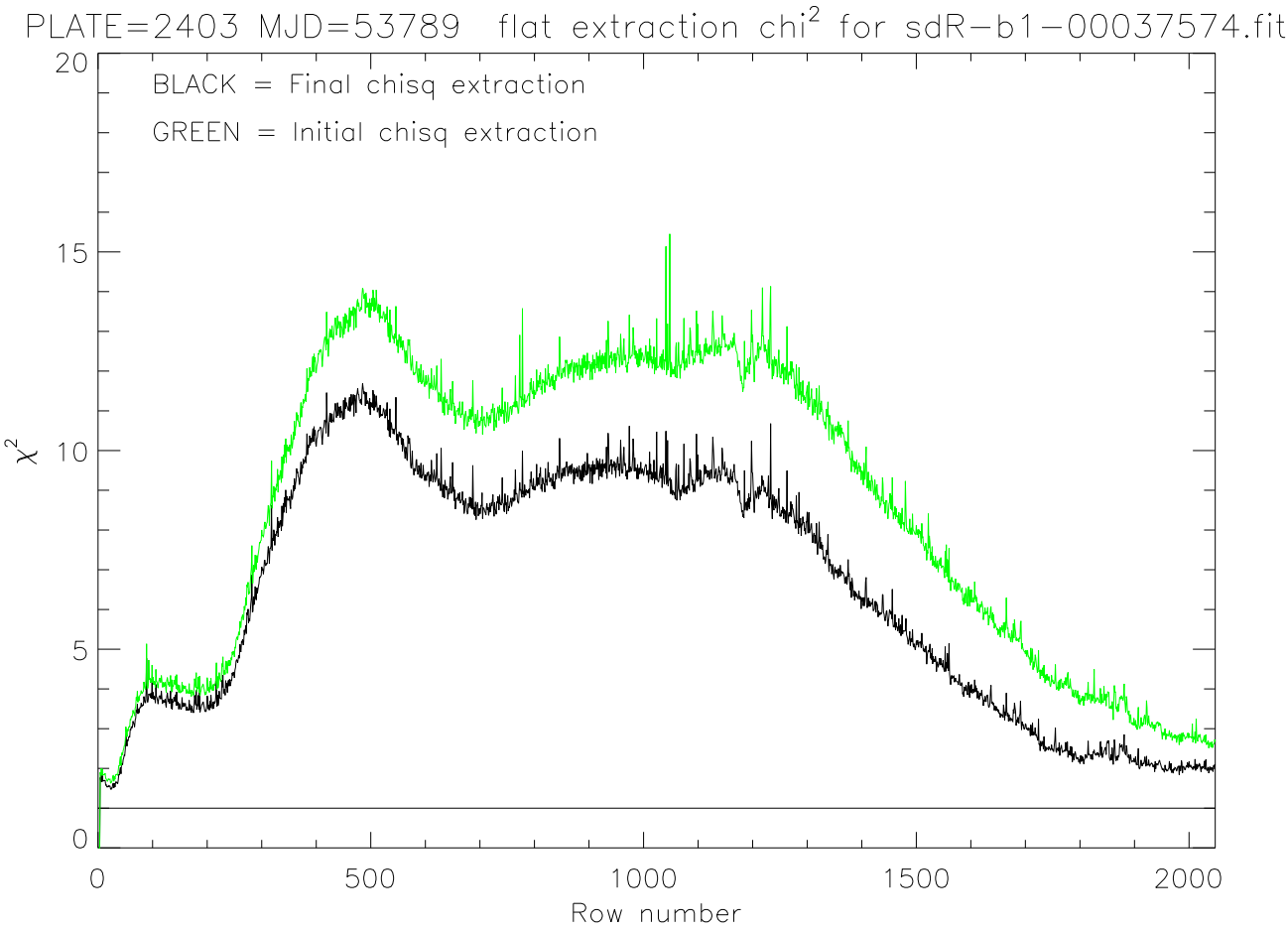

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

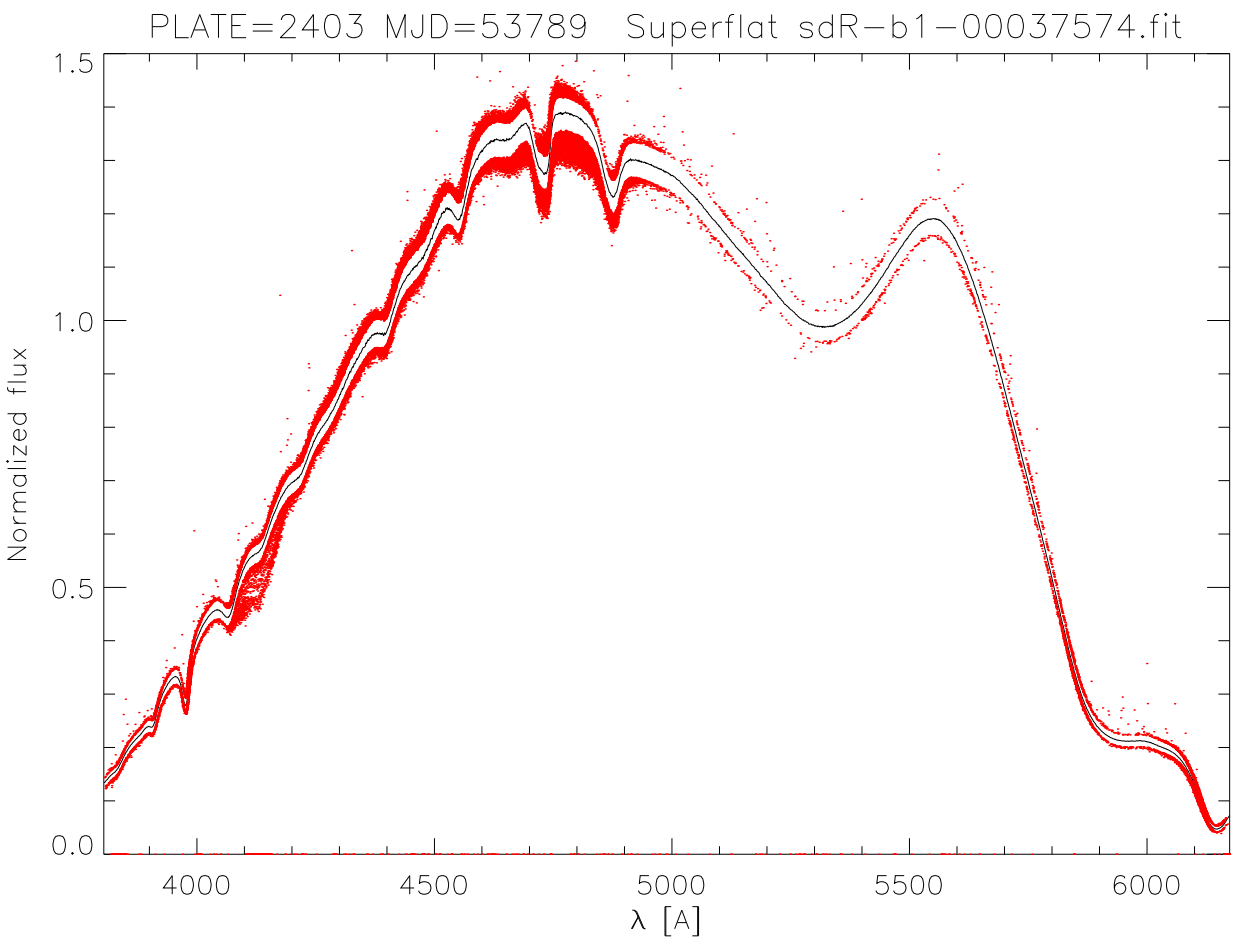

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

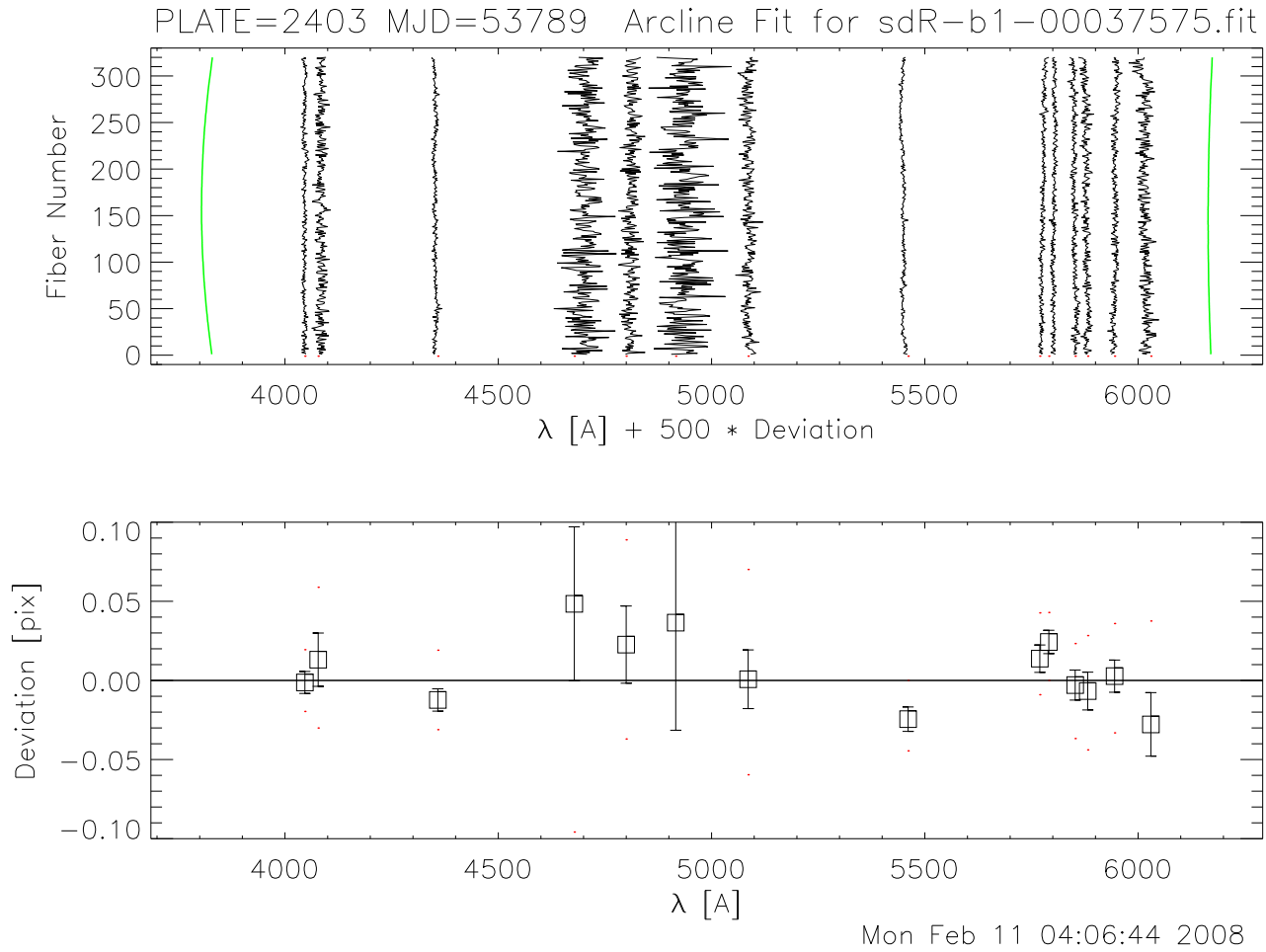

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

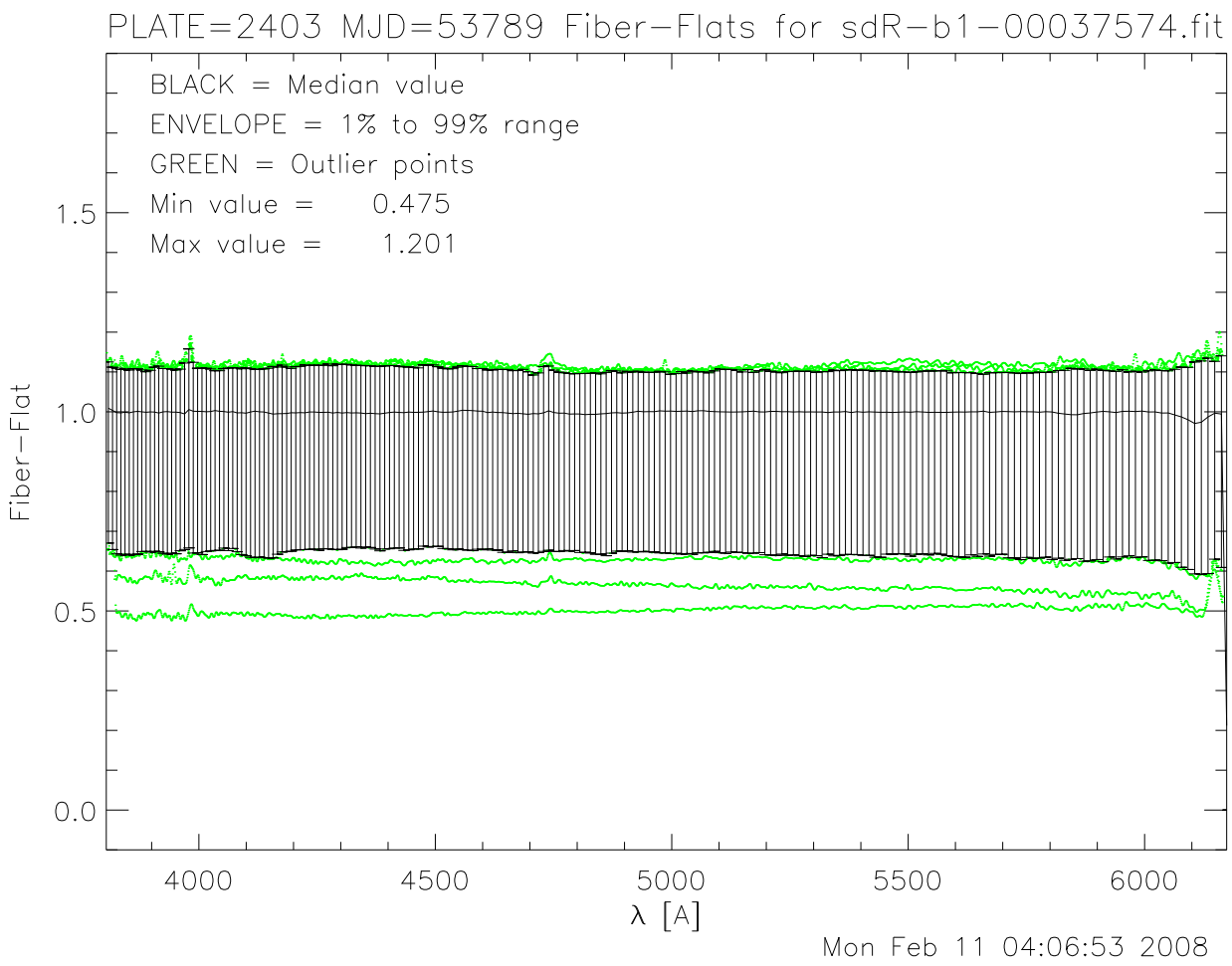

PLATE=2403 MJD=53789 flat extraction chi^2 for sdR−b1−00037568.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
5
10
15
0
500
1000
1500
2000

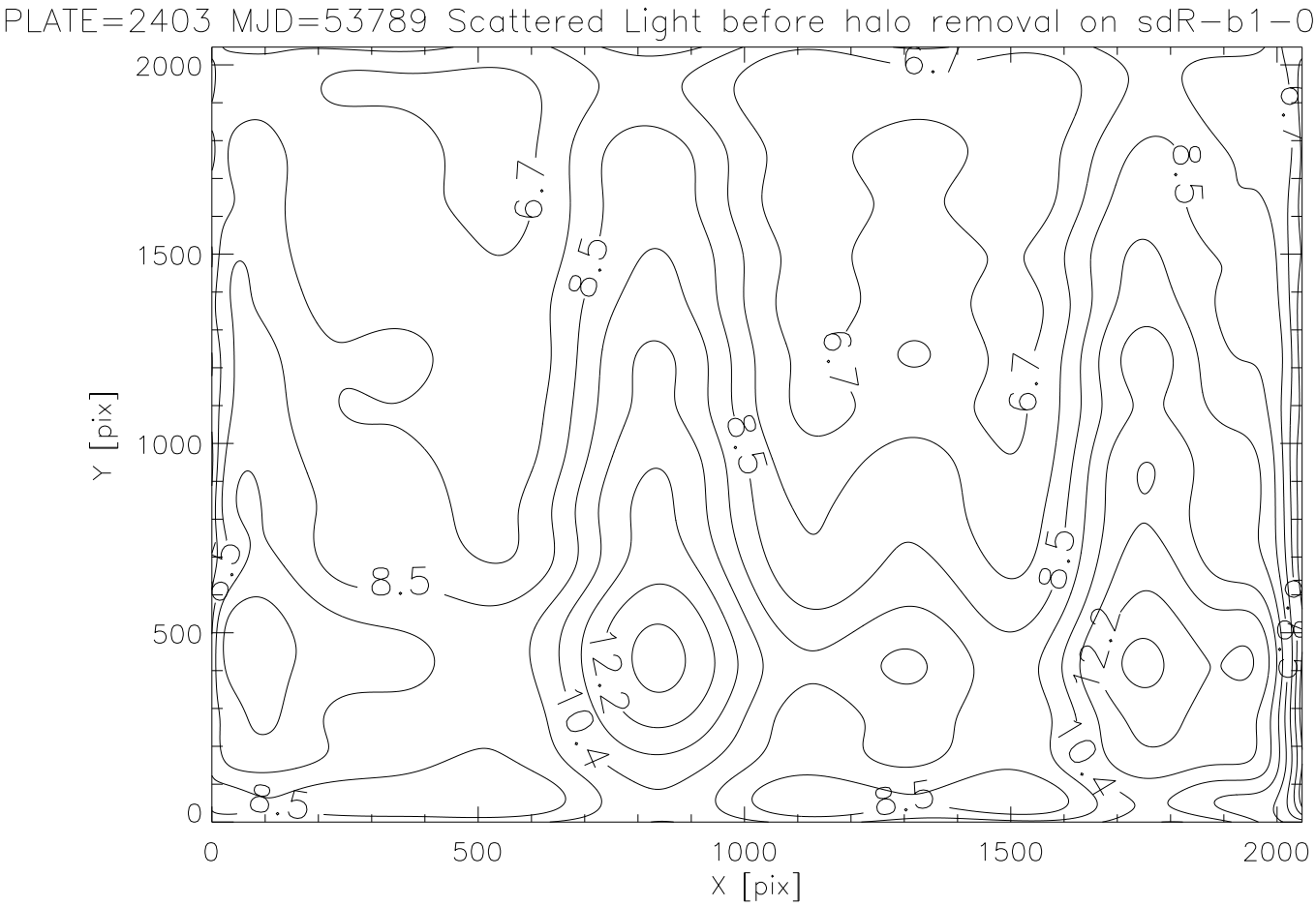

PLATE=2403 MJD=53789 Superflat sdR-b1-00037568.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

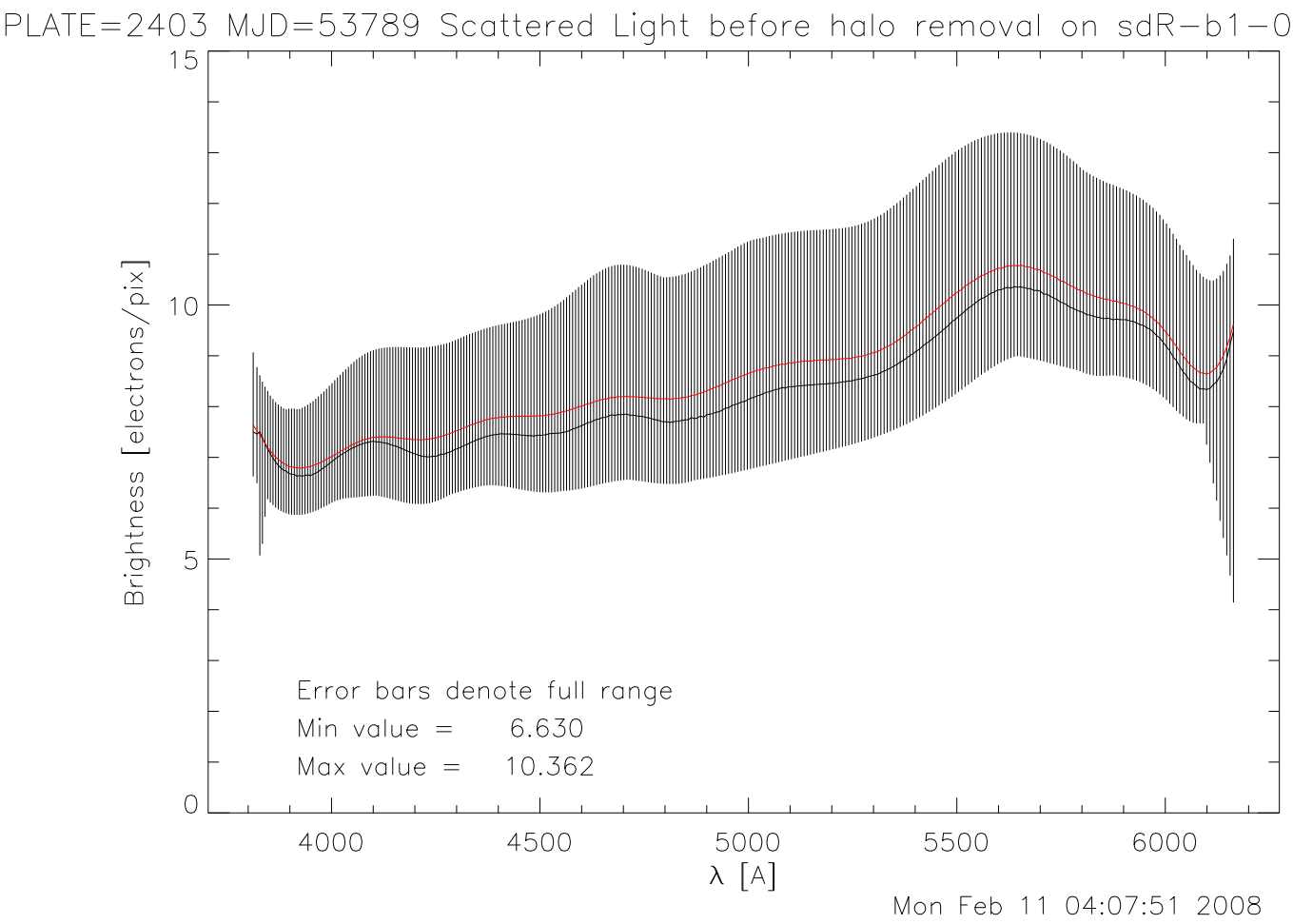

PLATE=2403 MJD=53789 flat extraction chi^2 for sdR−b1−00037574.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
5
10
15
20
0
500
1000
1500
2000

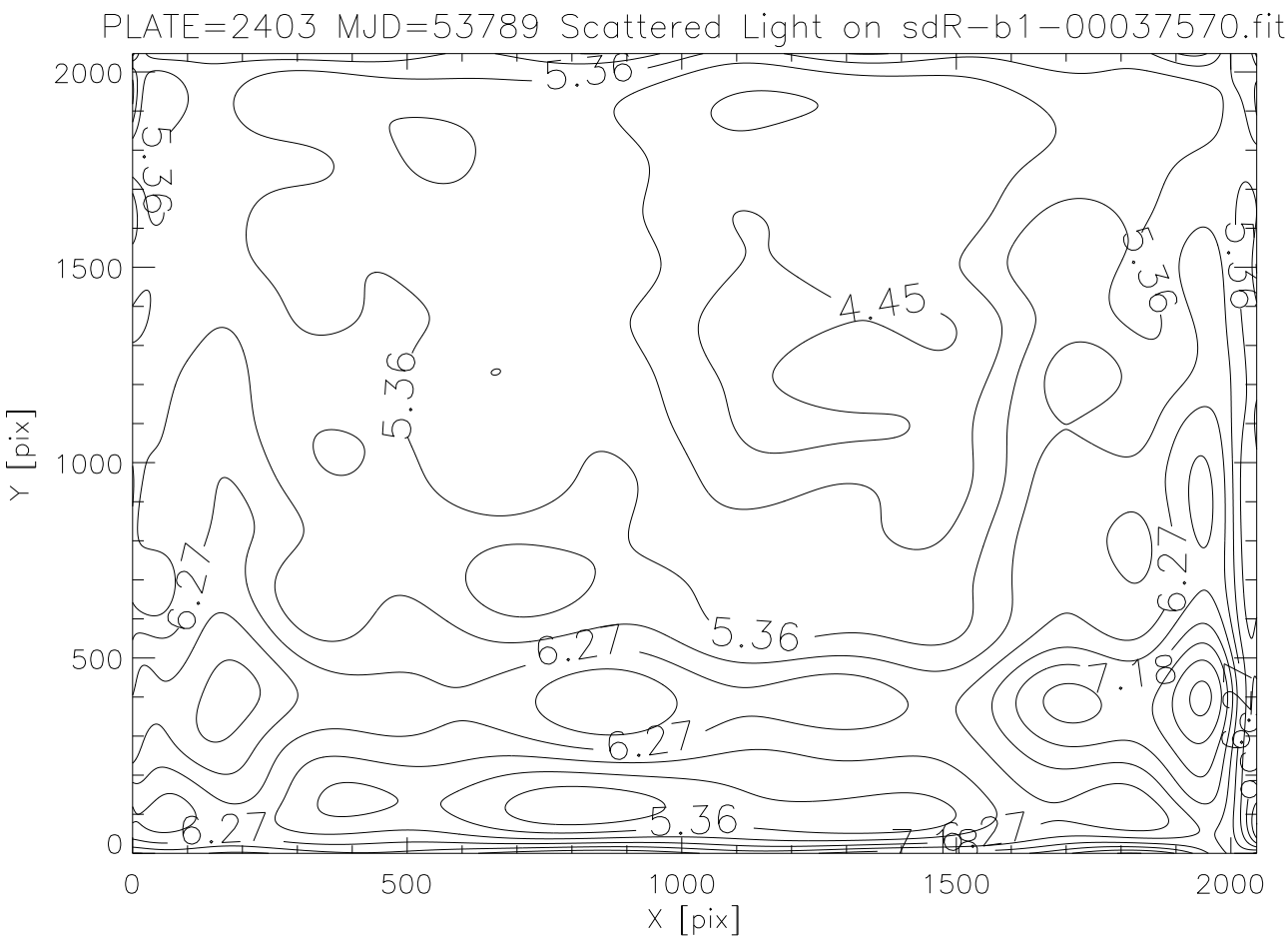

PLATE=2403 MJD=53789 Superflat sdR-b1-00037574.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

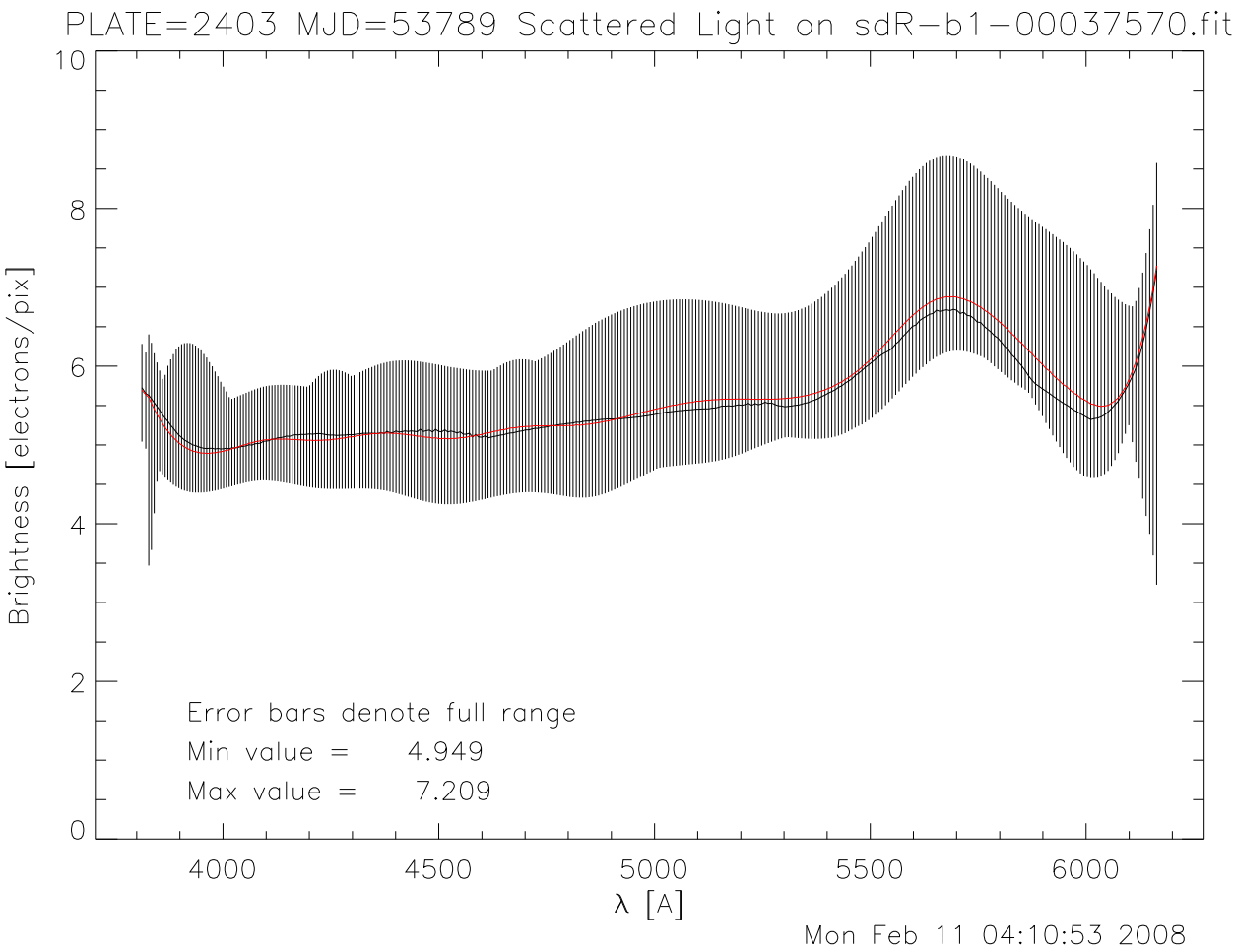

PLATE=2403 MJD=53789 Arcline Fit for sdR-b1-00037575.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 04:06:44 2008

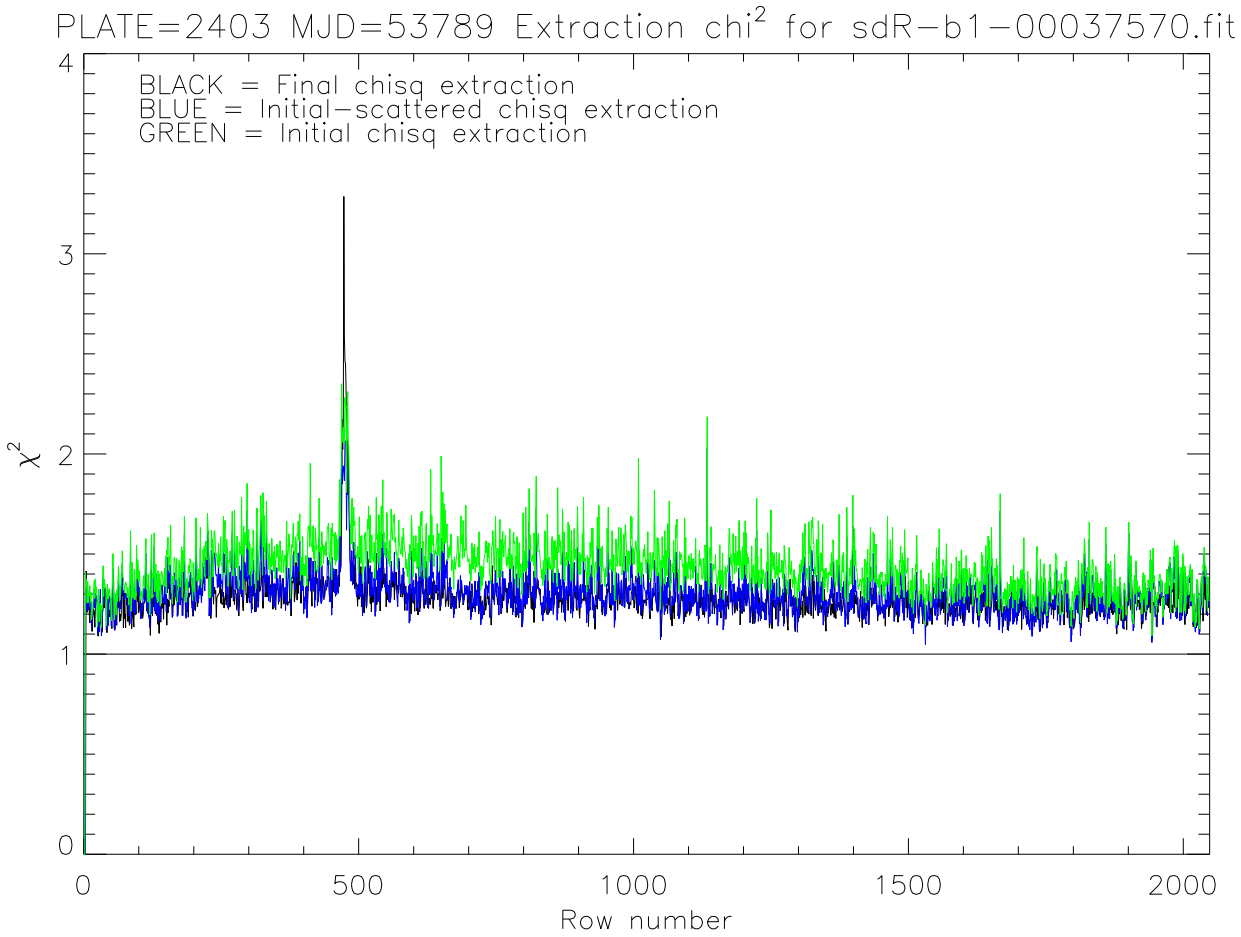

PLATE=2403 MJD=53789 Fiber−Flats for sdR−b1−00037574.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.475
Max value = 1.201
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 04:06:53 2008

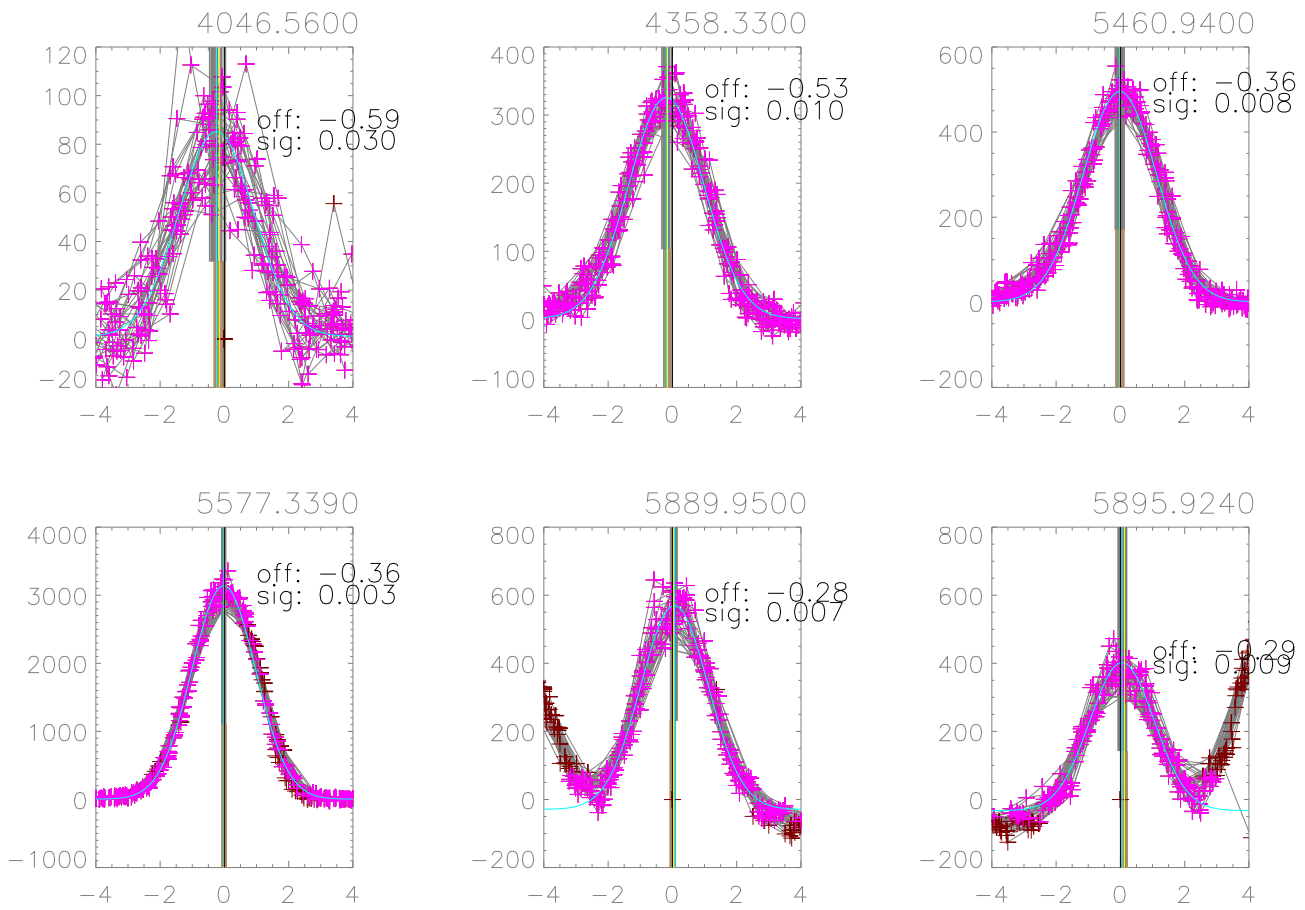

PLATE=2403 MJD=53789 Scattered Light before halo removal on sdR−b1−00037570.f
Y [pix]
X [pix]
0
500
1000
1500
2000
6.7
8.5
10.4
12.2

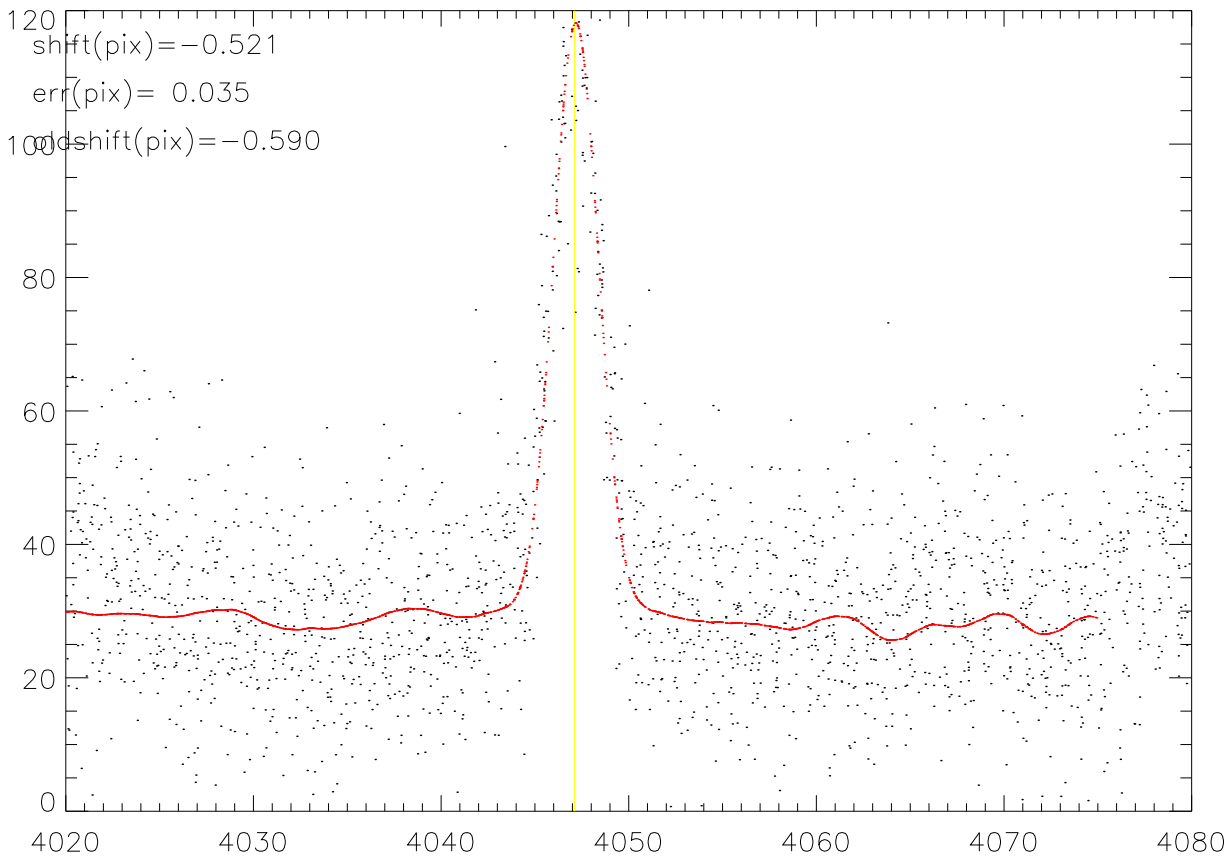

PLATE=2403 MJD=53789 Scattered Light before halo removal on sdR−b1−00037570.f
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 6.630
Max value = 10.362
Mon Feb 11 04:07:51 2008

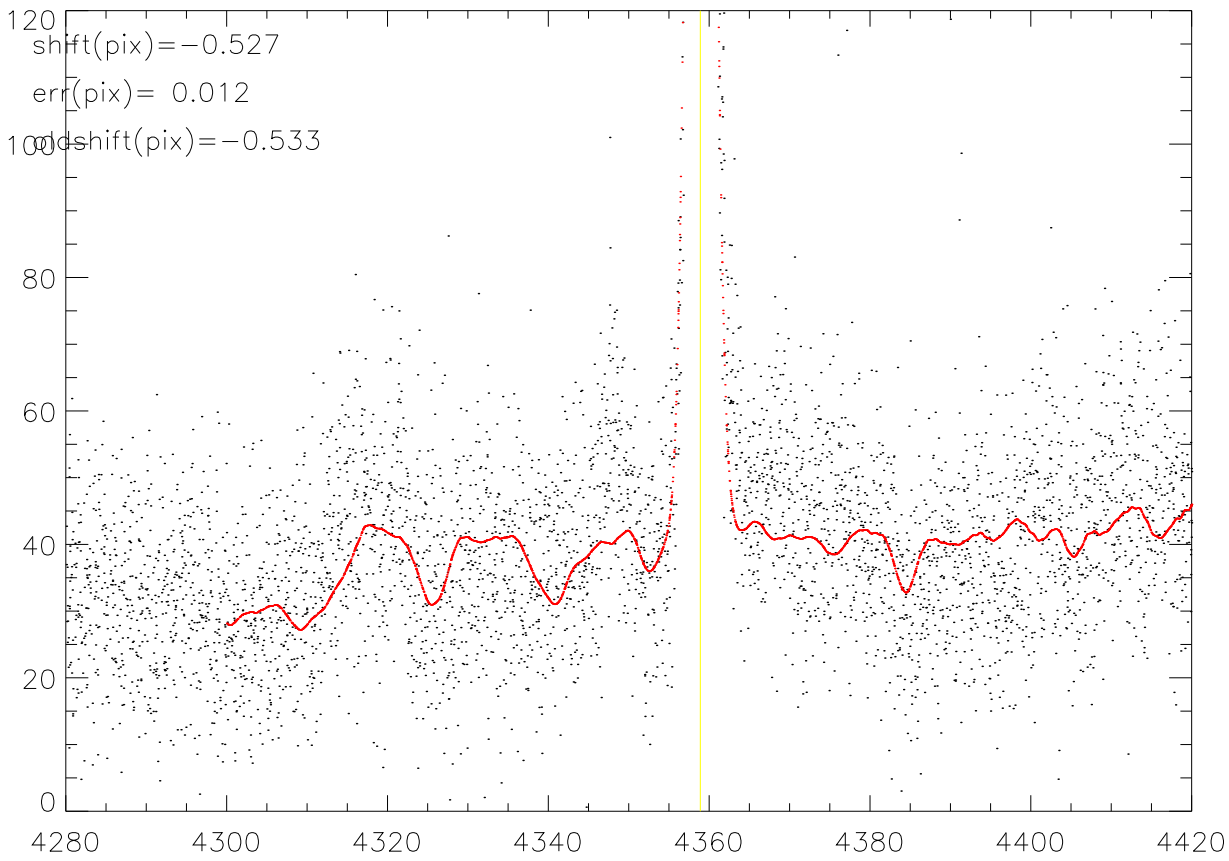

PLATE=2403 MJD=53789 Scattered Light on sdR-b1-00037570.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
5.36
4.45
6.27
7.18

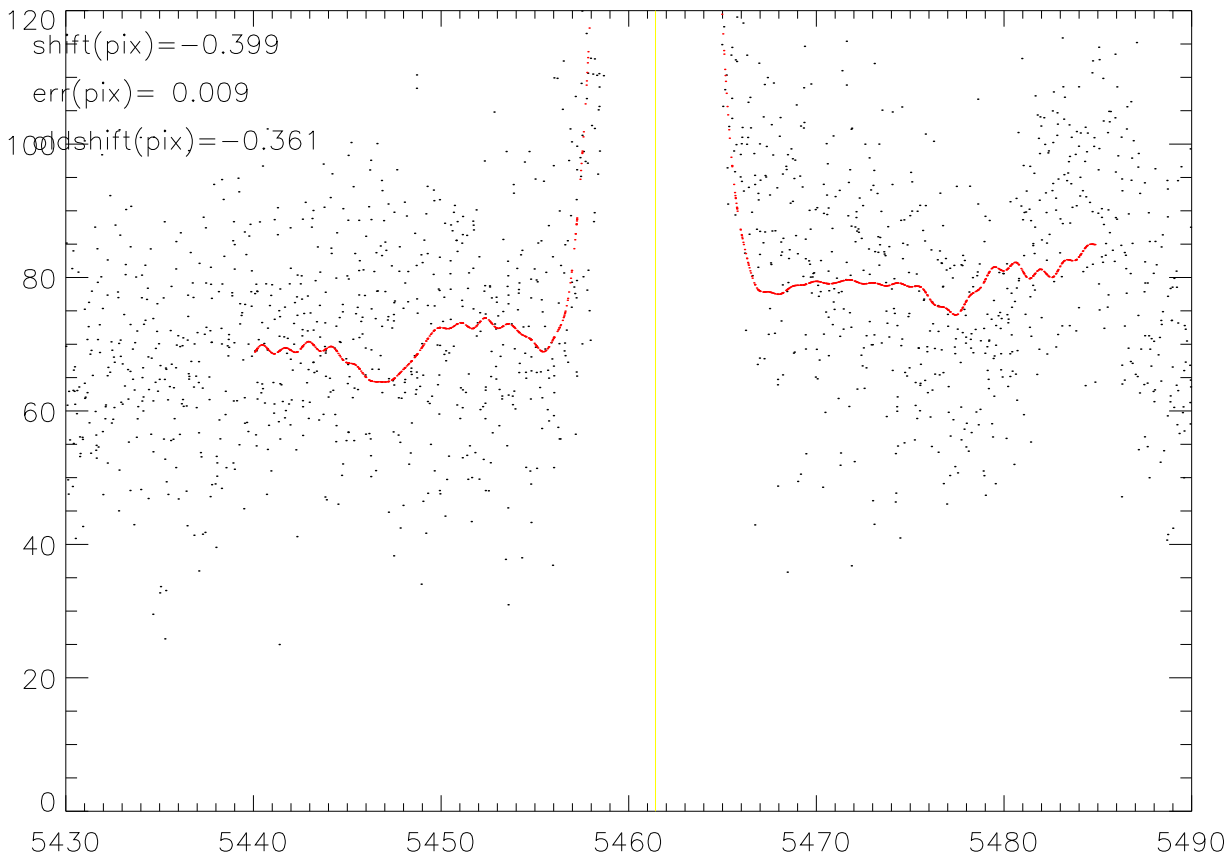

PLATE=2403 MJD=53789 Scattered Light on sdR-b1-00037570.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.949
Max value = 7.209
Mon Feb 11 04:10:53 2008

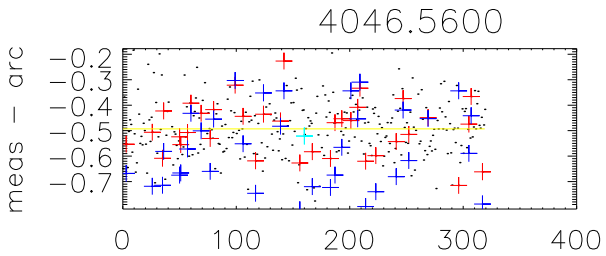

PLATE=2403 MJD=53789 Extraction chi^2 for sdR-b1-00037570.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

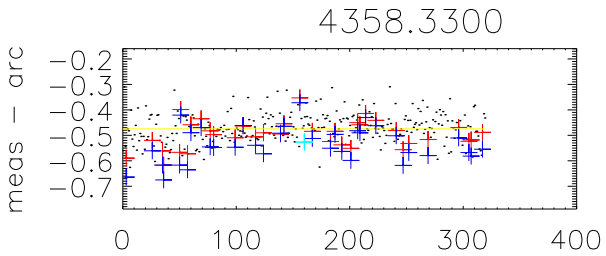

4046.5600
off: −0.59
sig: 0.030
4358.3300
off: −0.53
sig: 0.010
5460.9400
off: −0.36
sig: 0.008
5577.3390
off: −0.36
sig: 0.003
5889.9500
off: −0.28
sig: 0.007
5895.9240
off: −0.29
sig: 0.009

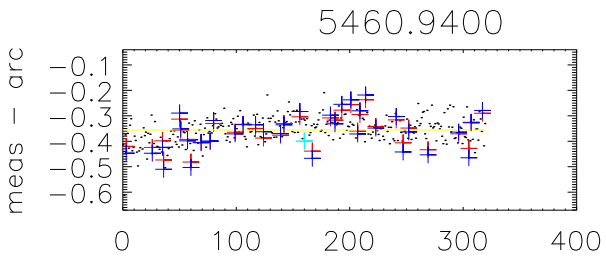

shift(pix)=−0.521
err(pix)= 0.035
oldshift(pix)=−0.590
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

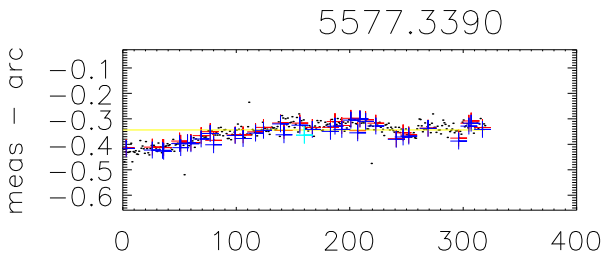

shift(pix)=−0.527
err(pix)= 0.012
oldshift(pix)=−0.533
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

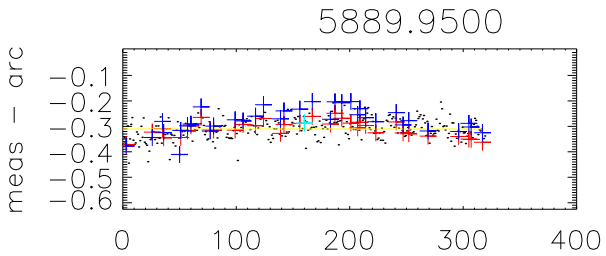

shift(pix)=−0.399
err(pix)= 0.009
oldshift(pix)=−0.361
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

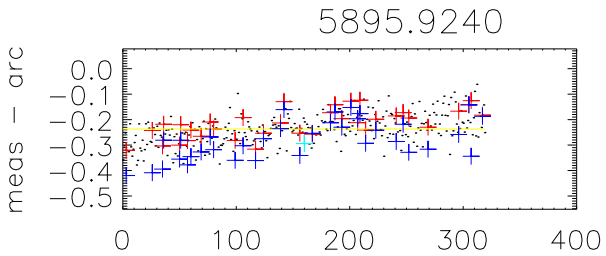

4046.5600
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

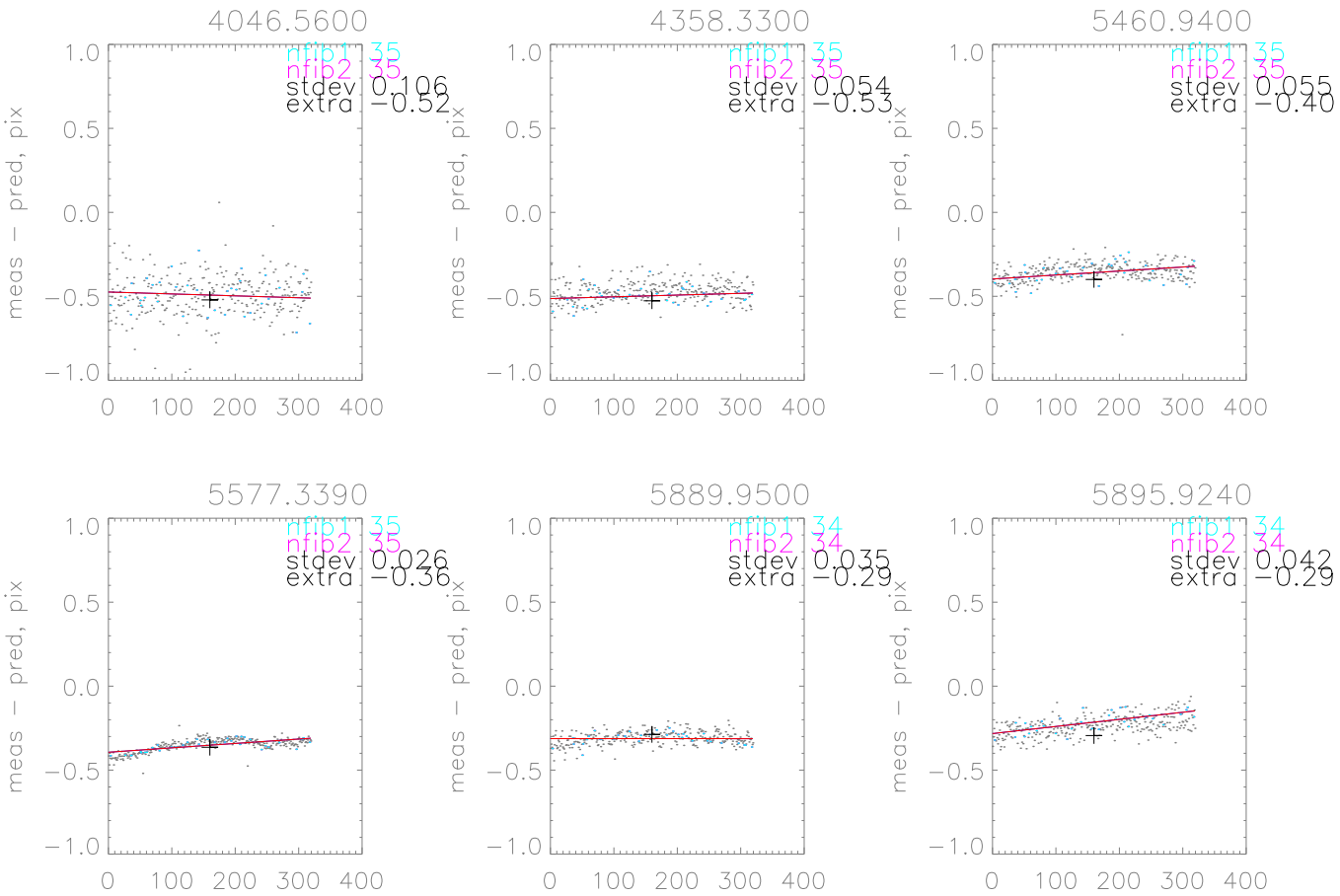

4358.3300
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

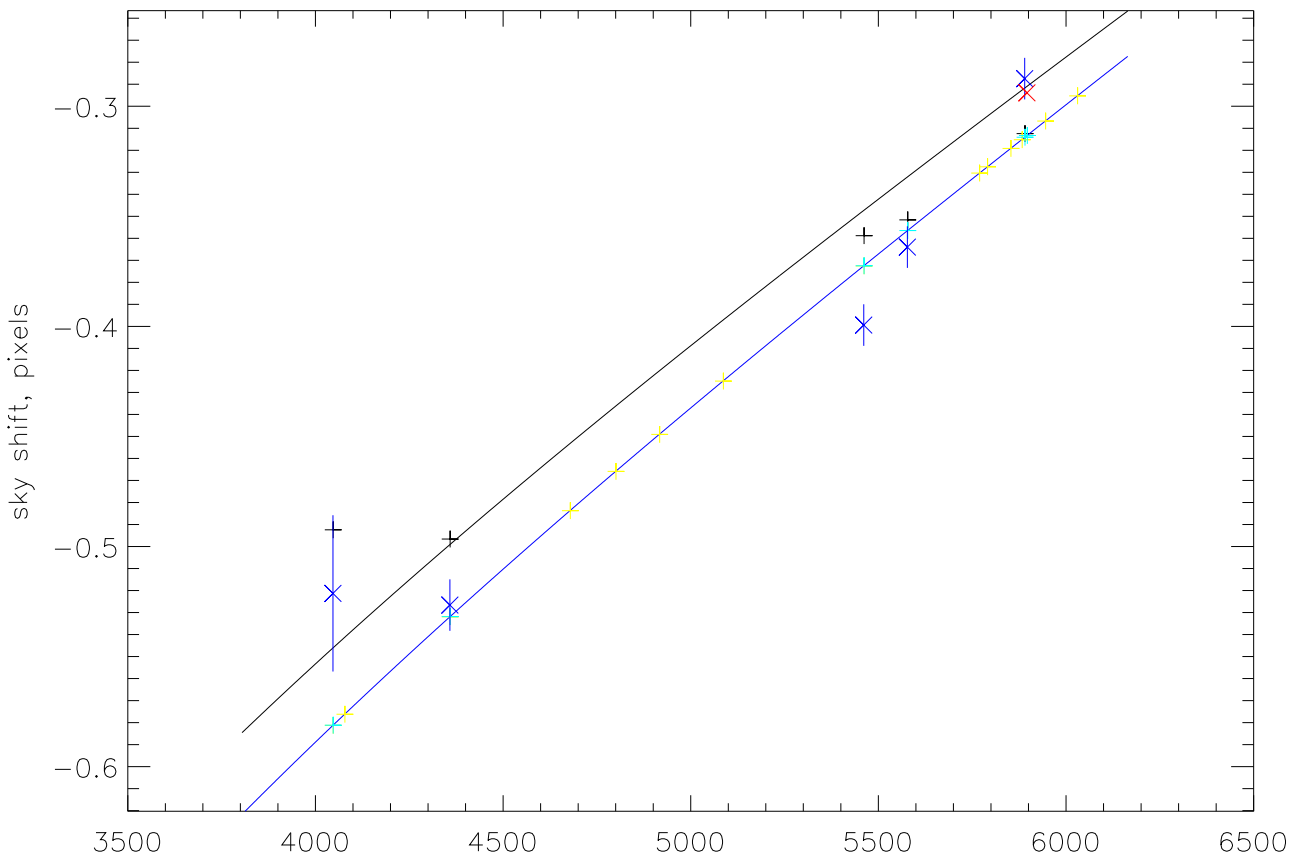

5460.9400
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400


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

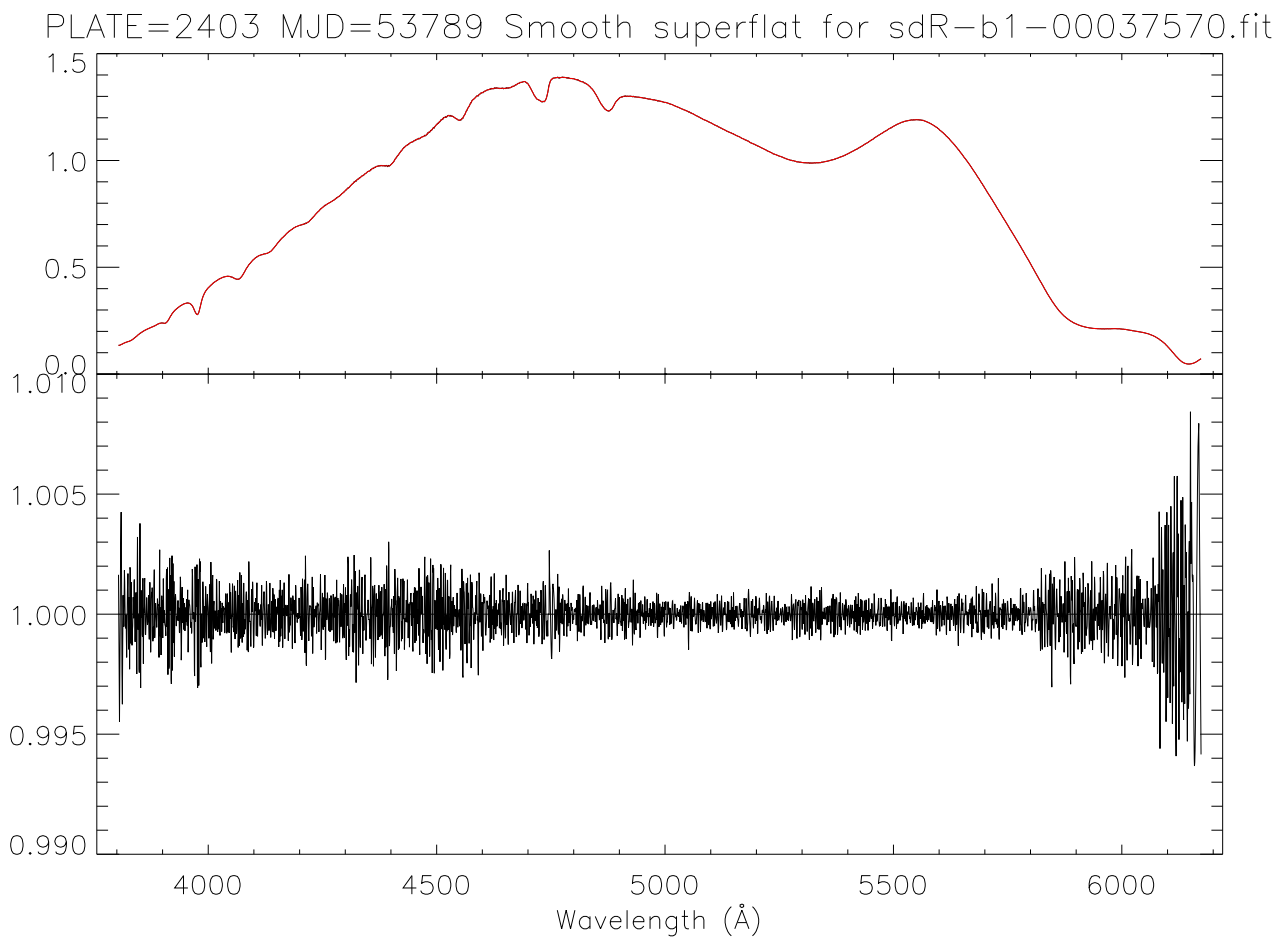

5889.9500
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

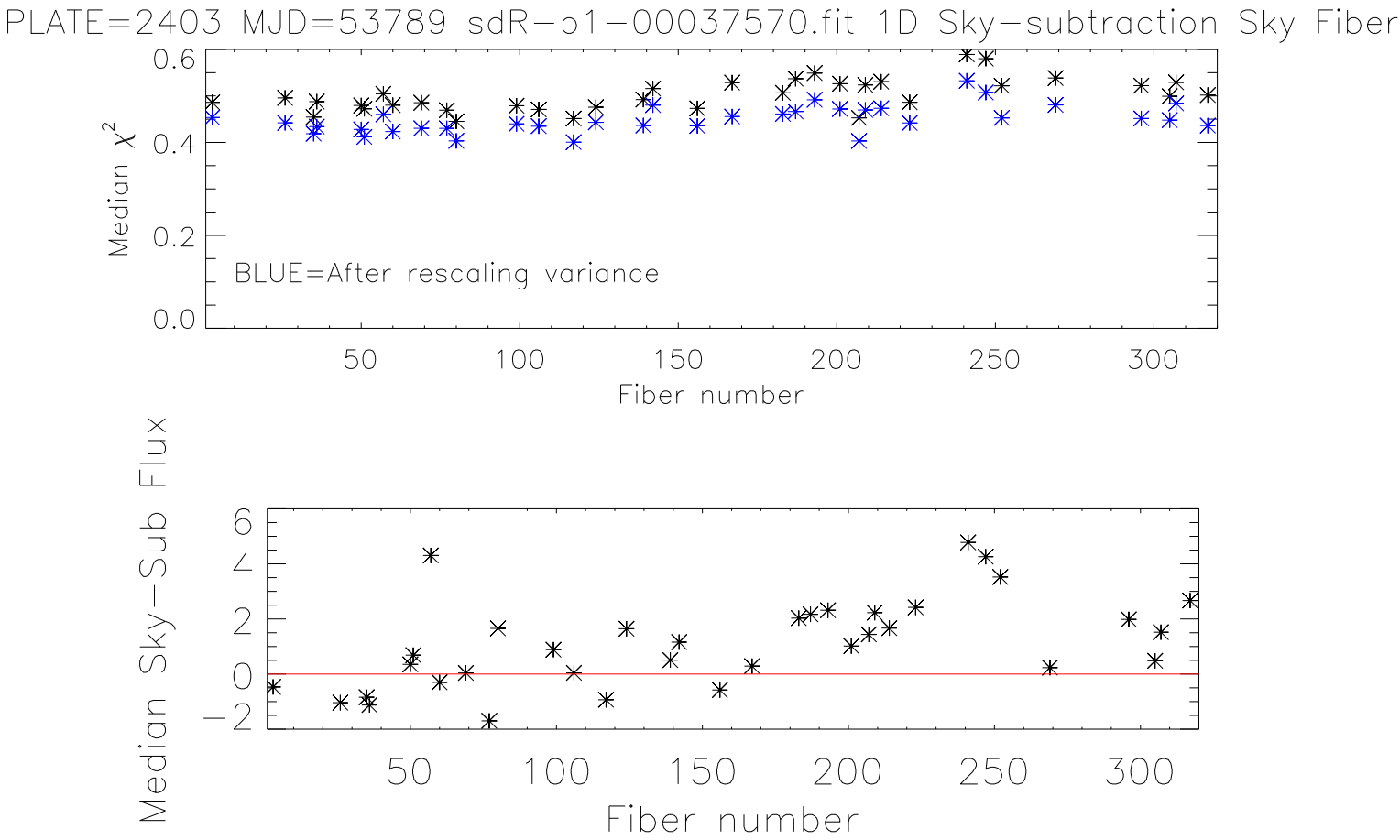

5895.9240
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

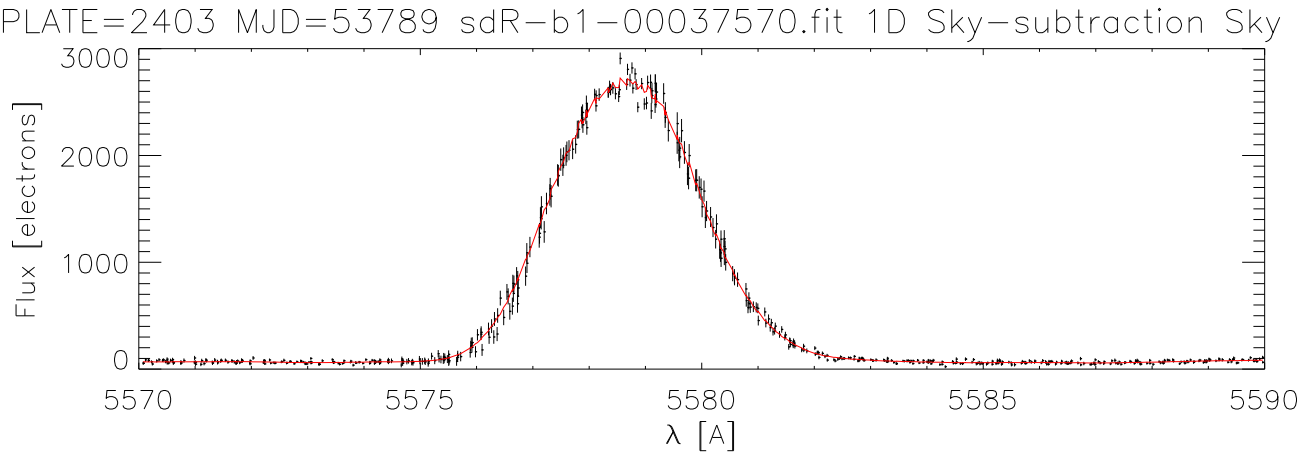

4046.5600
nfib1 35
nfib2 35
stdev 0.106
extra −0.52
4358.3300
nfib1 35
nfib2 35
stdev 0.054
extra −0.53
5460.9400
nfib1 35
nfib2 35
stdev 0.055
extra −0.40
5577.3390
nfib1 35
nfib2 35
stdev 0.026
extra −0.36
5889.9500
nfib1 34
nfib2 34
stdev 0.035
extra −0.29
5895.9240
nfib1 34
nfib2 34
stdev 0.042
extra −0.29
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

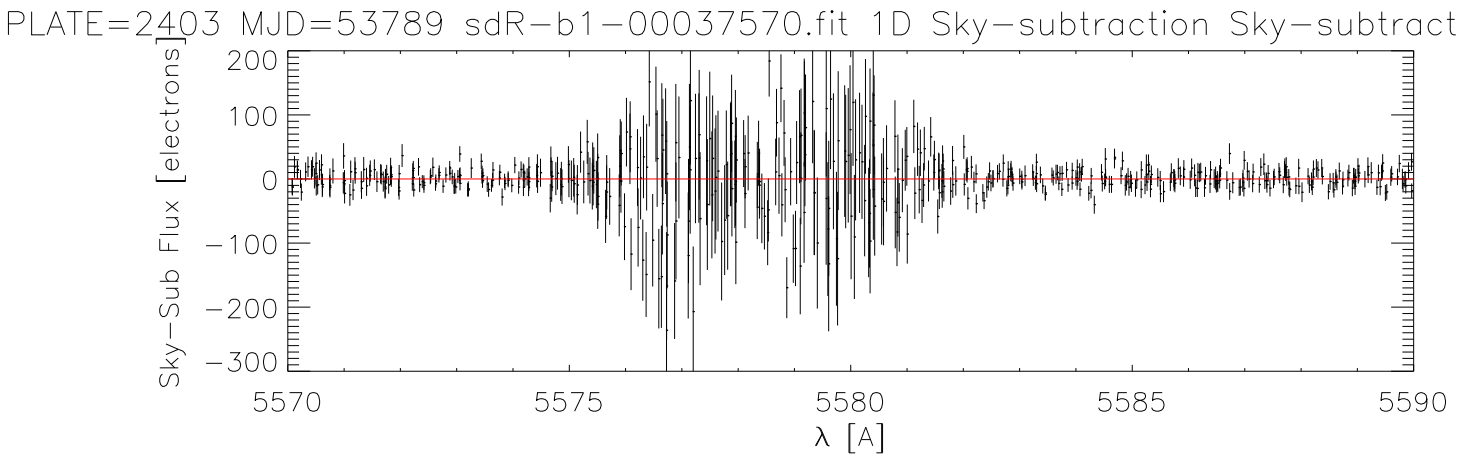

sky shift, pixels
−0.3
−0.4
−0.5
−0.6
3500
4000
4500
5000
5500
6000
6500

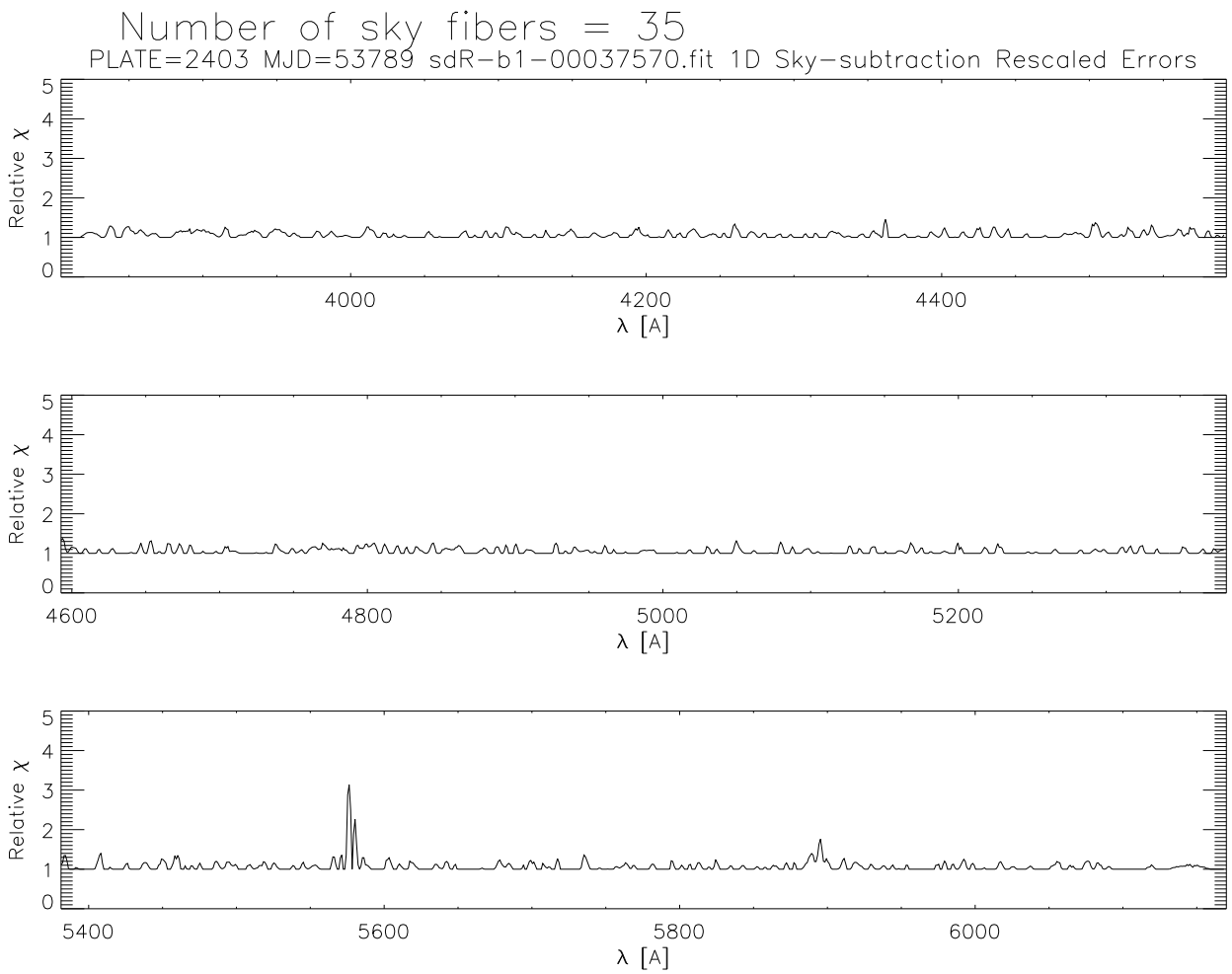
es= 0.0000

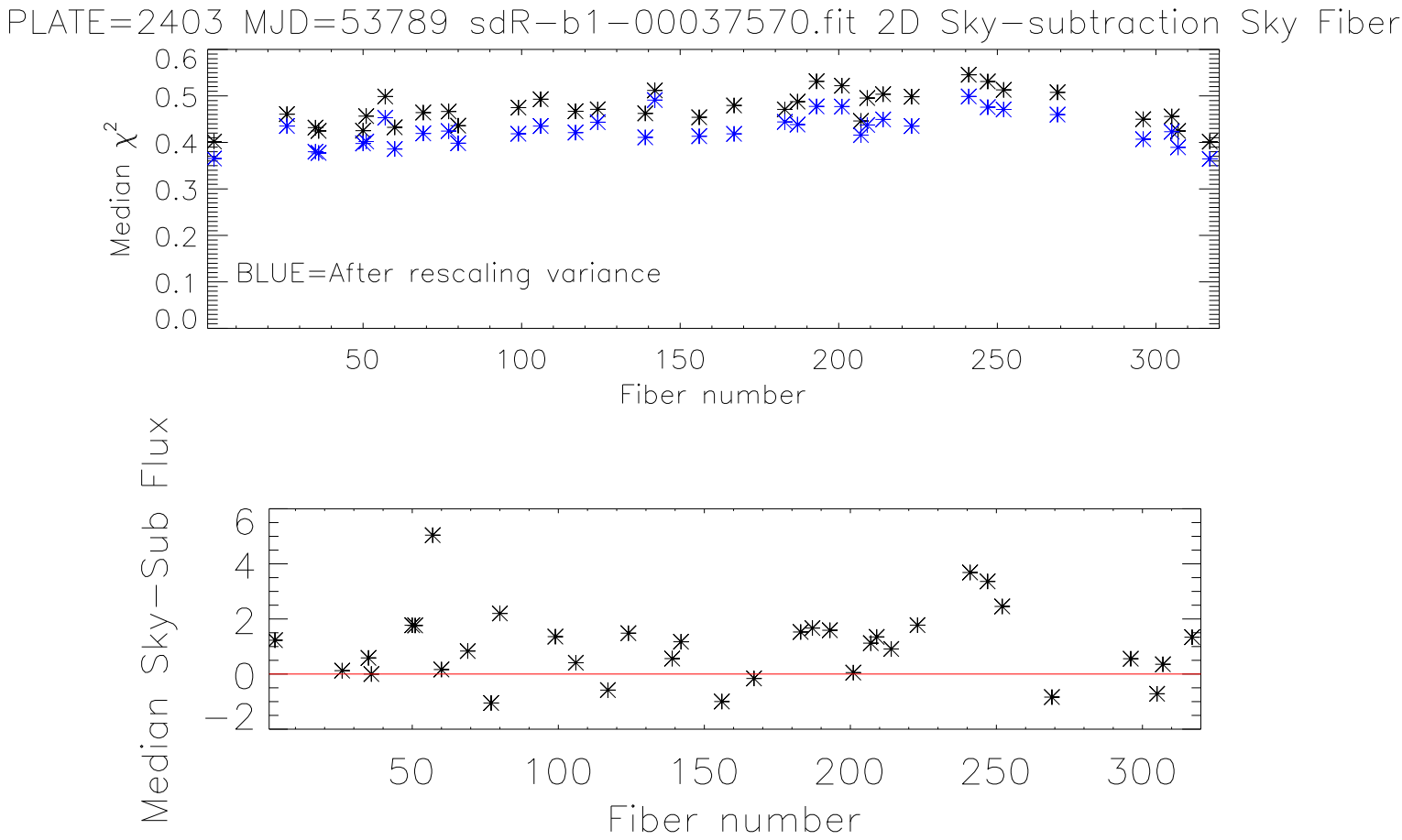

PLATE=2403 MJD=53789 Smooth superflat for sdR-b1-00037570.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

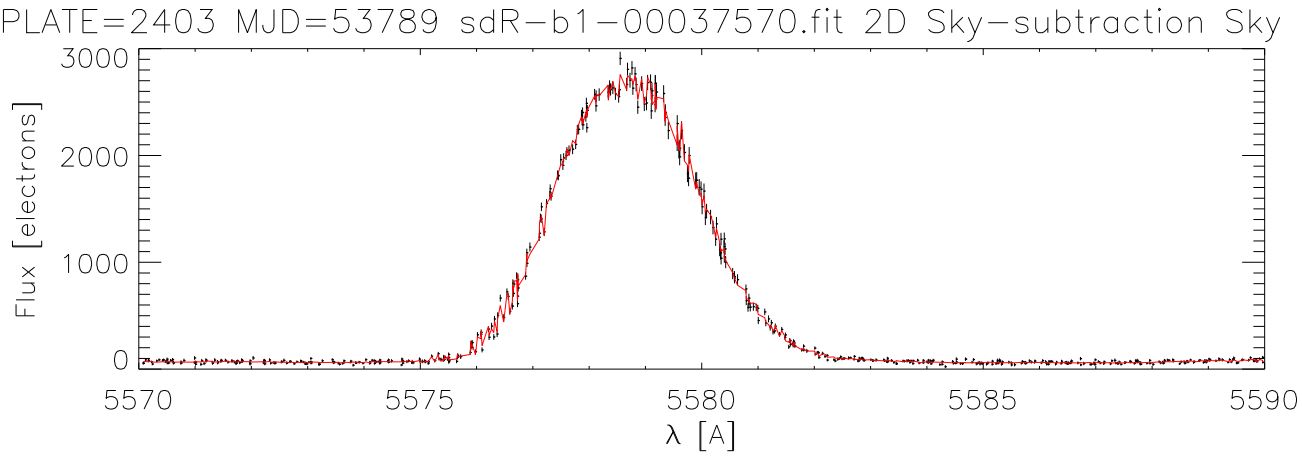

PLATE=2403 MJD=53789 sdR-b1-00037570.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
−2
0
2
4
6
50
100
150
200
250
300
Fiber number

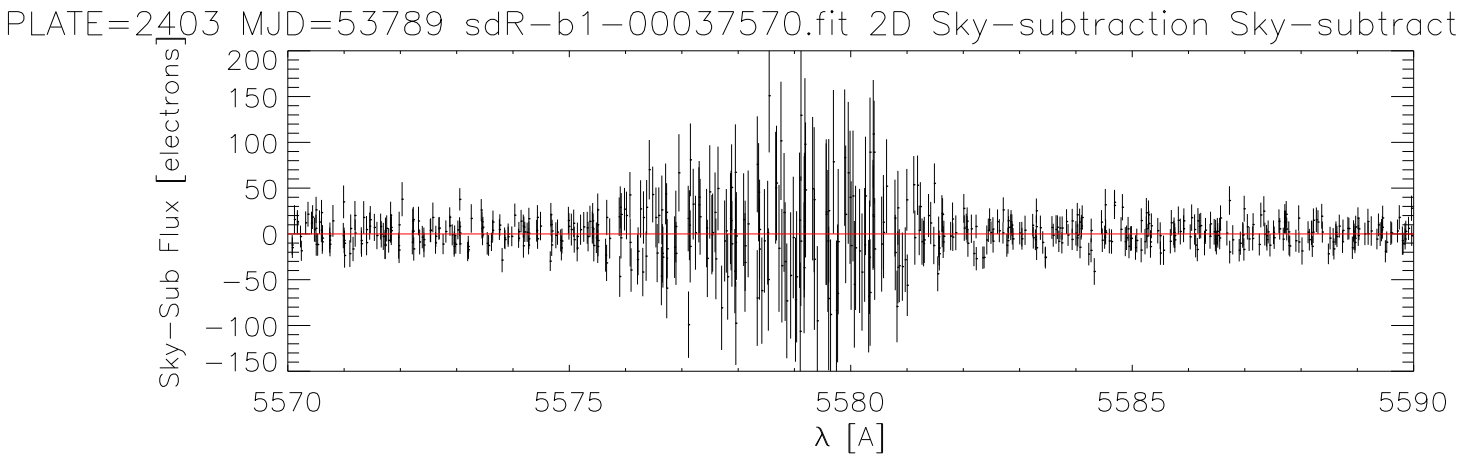

PLATE=2403 MJD=53789 sdR-b1-00037570.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

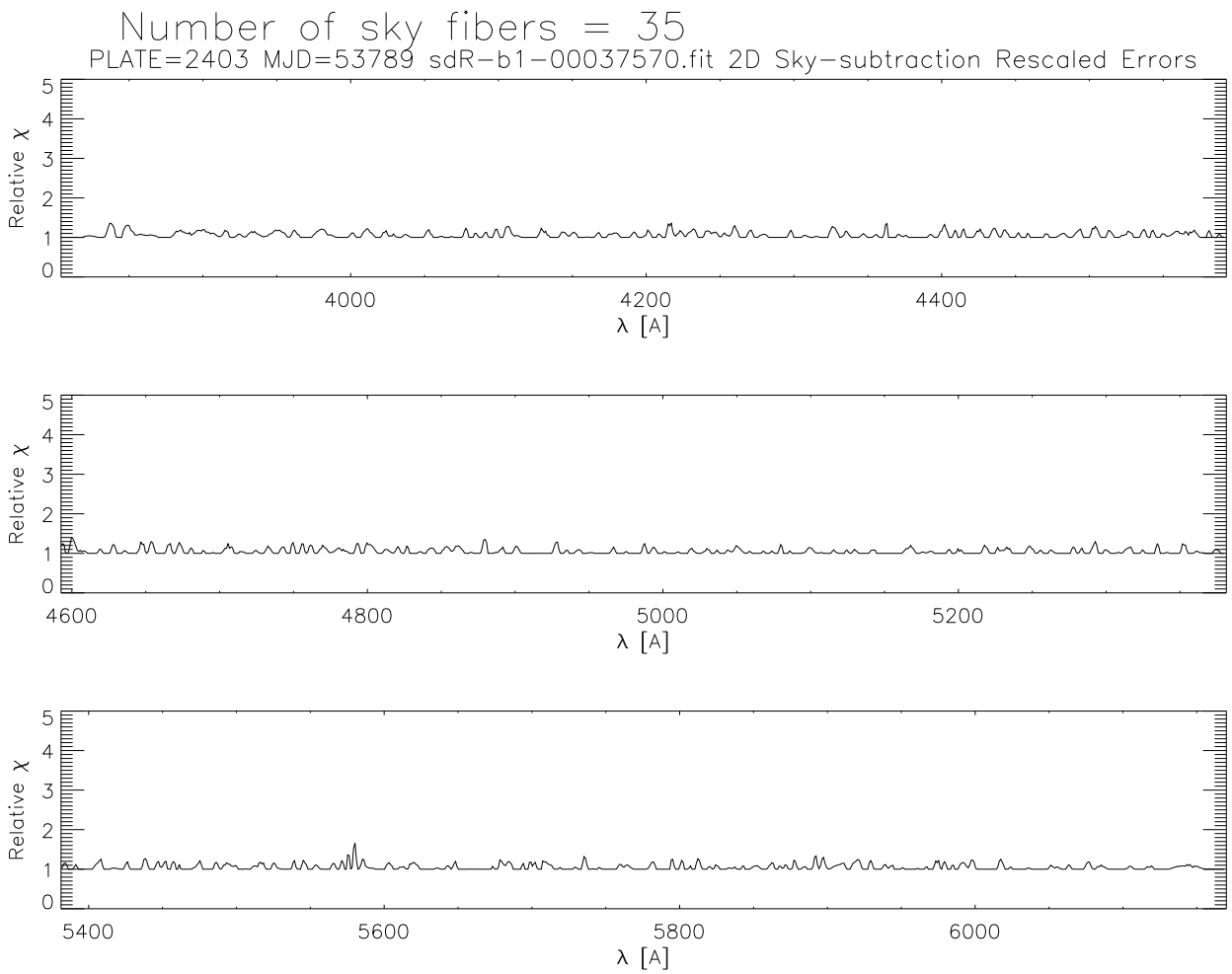

PLATE=2403 MJD=53789 sdR-b1-00037570.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

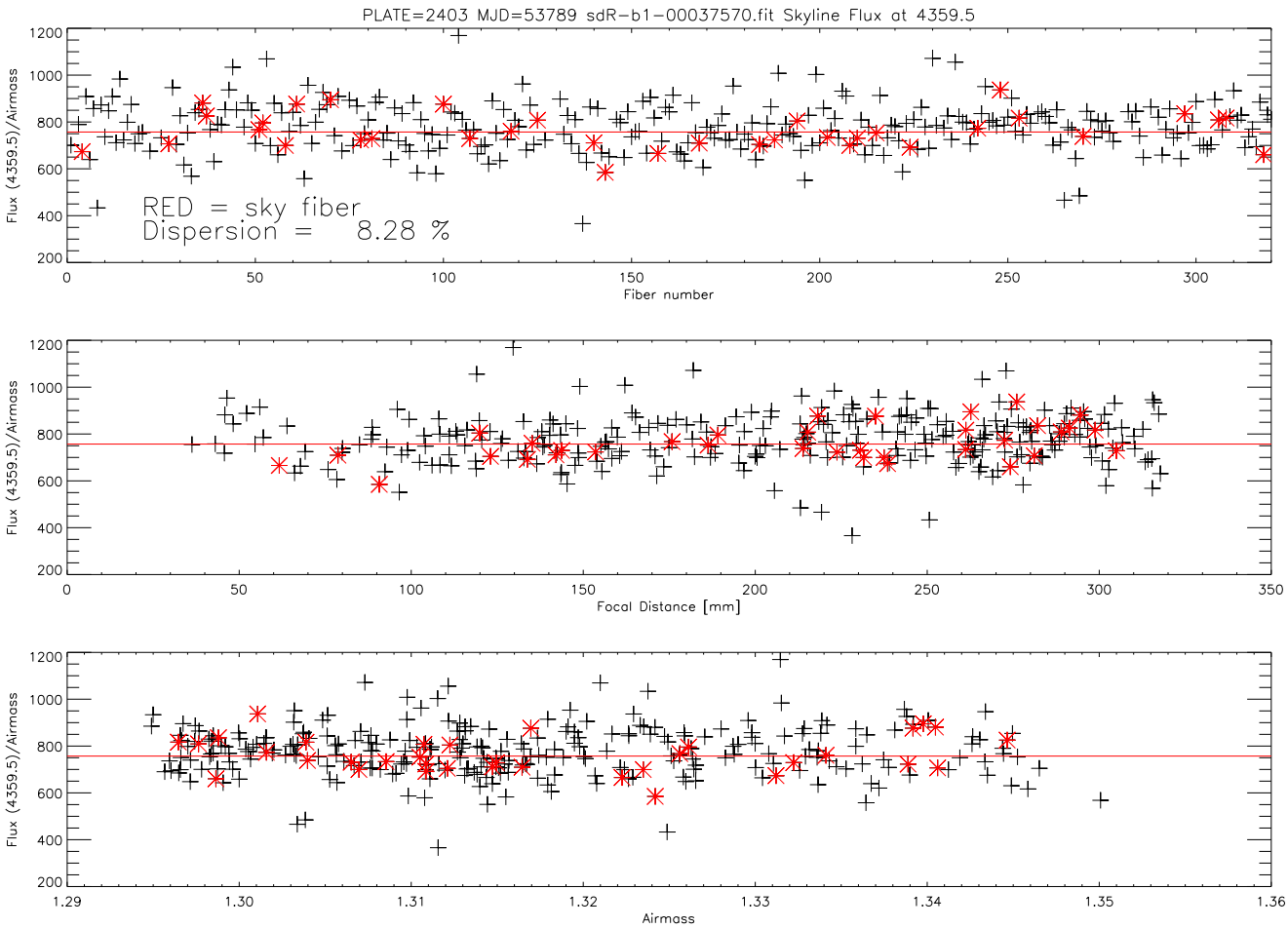

Number of sky fibers = 35
PLATE=2403 MJD=53789 sdR-b1-00037570.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

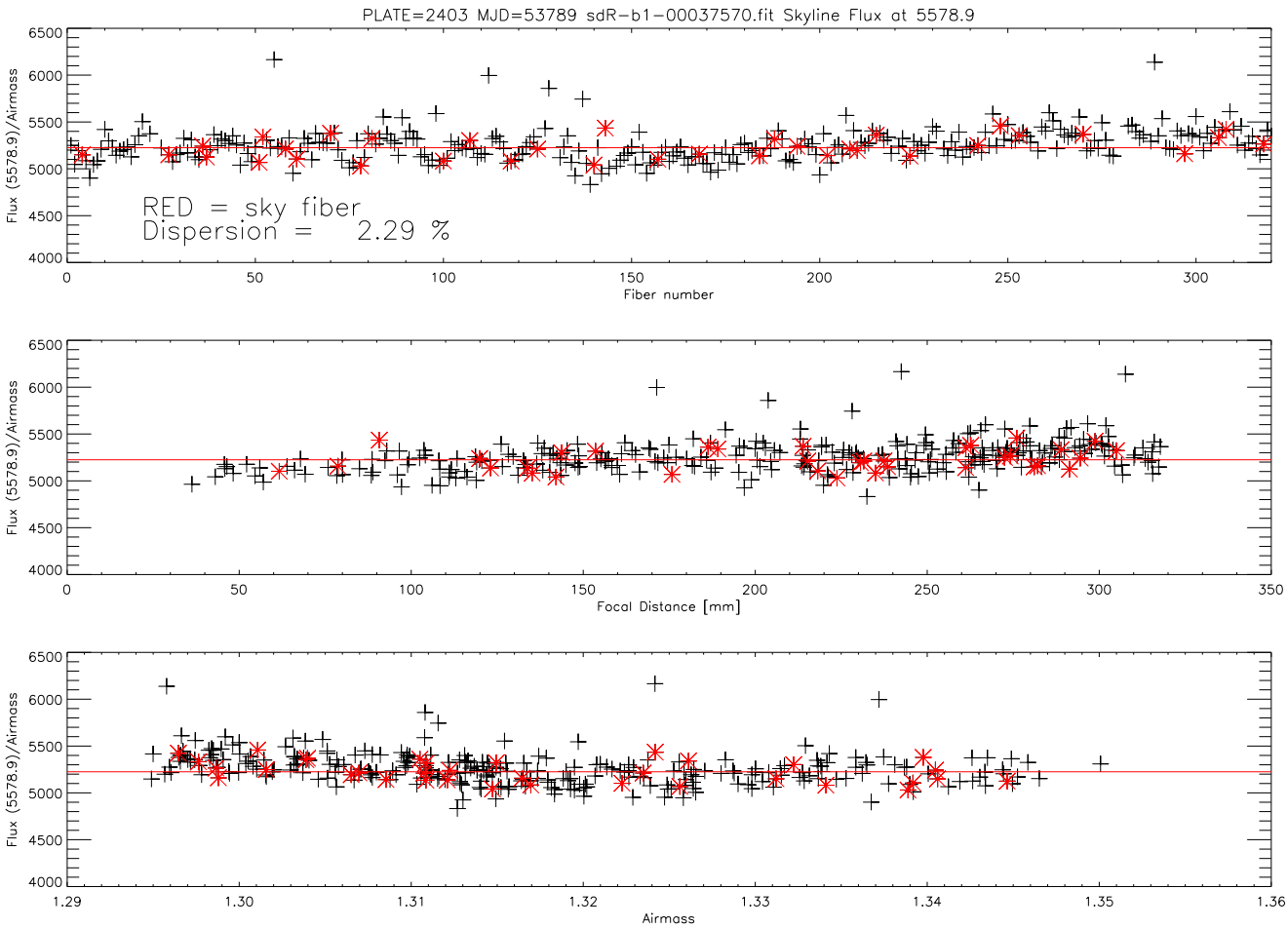

PLATE=2403 MJD=53789 sdR-b1-00037570.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

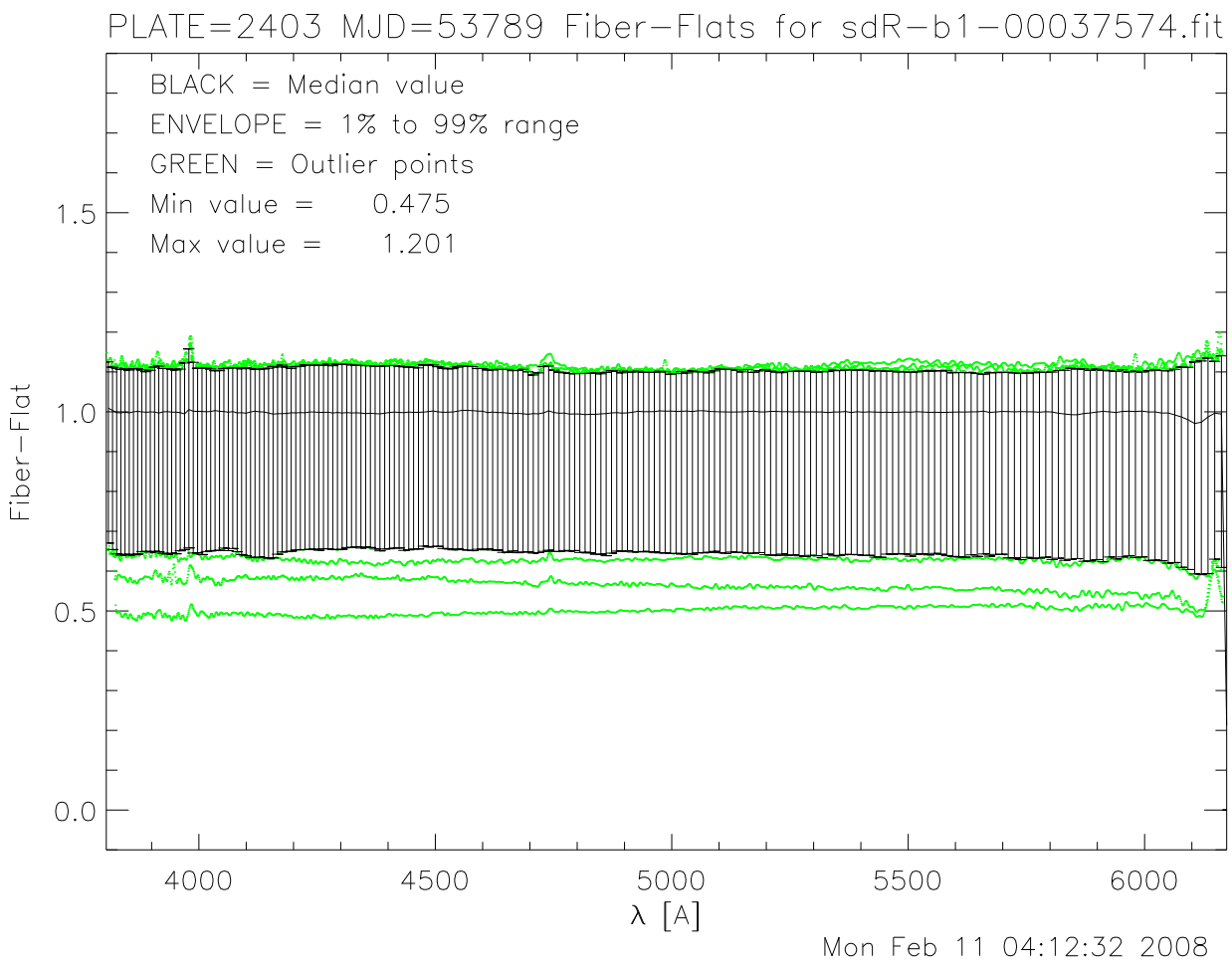

PLATE=2403 MJD=53789 sdR-b1-00037570.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

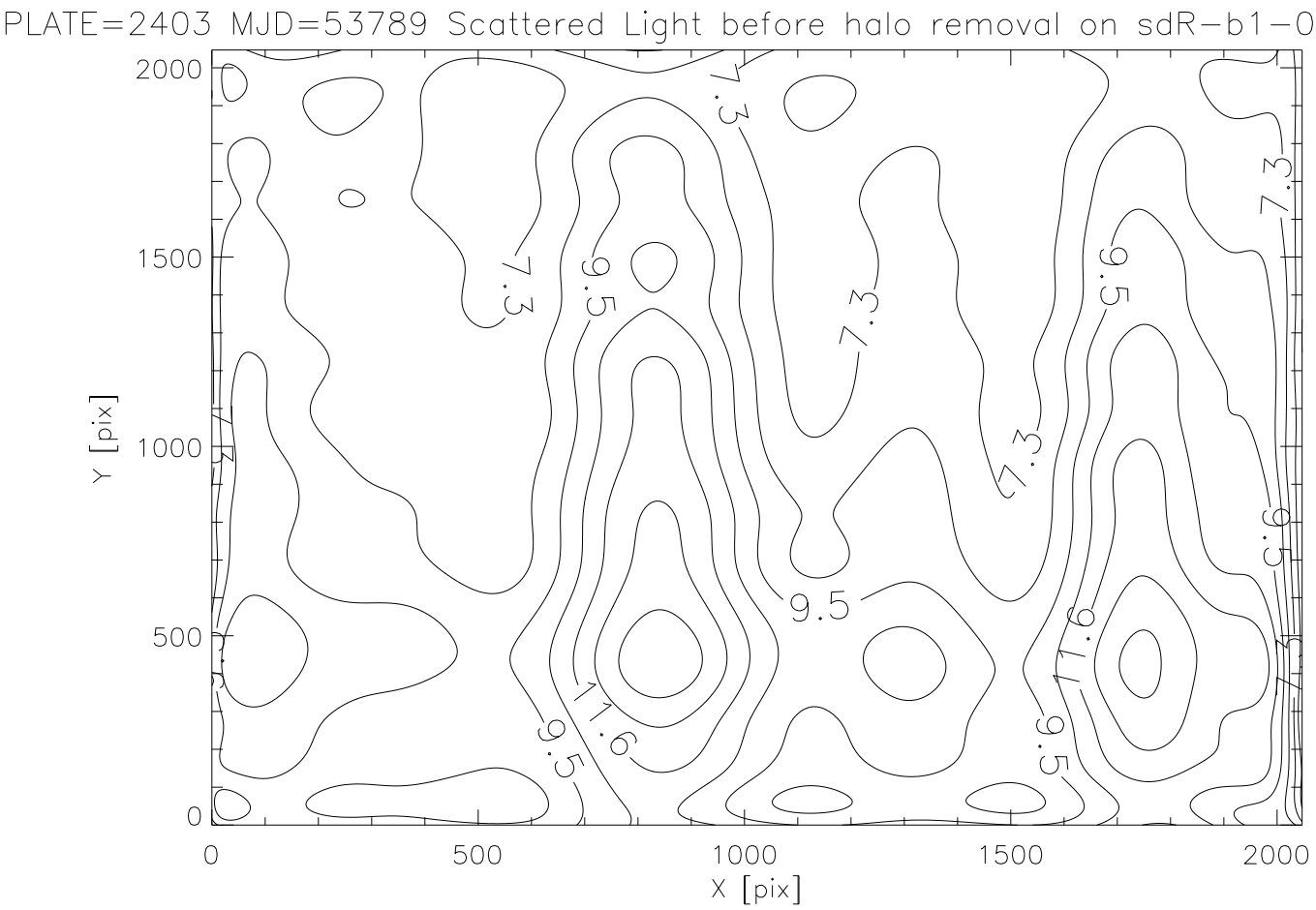

PLATE=2403 MJD=53789 sdR-b1-00037570.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
150
100
50
0
−50
−100
−150
5570
5575
5580
5585
5590
λ [A]

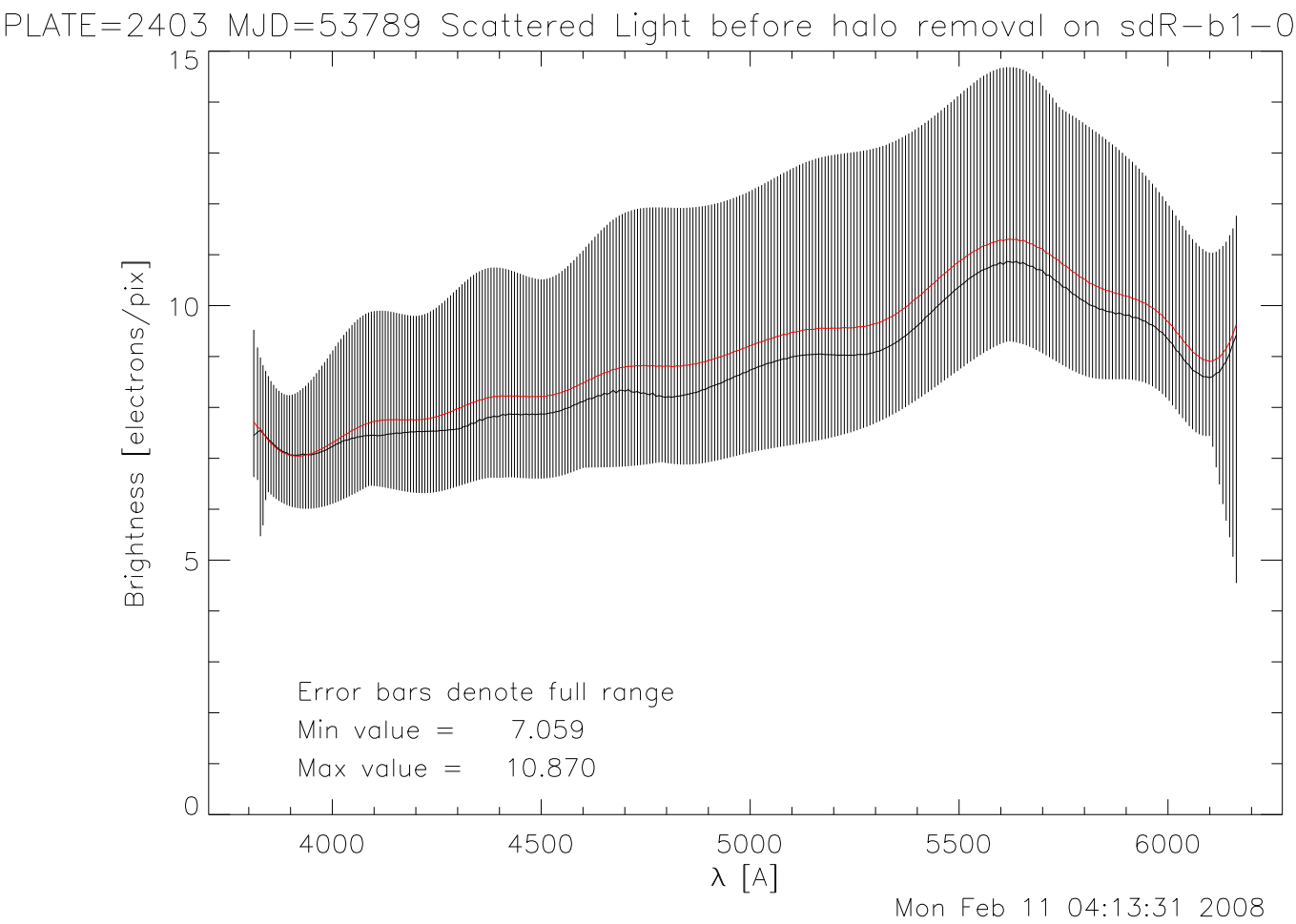

Number of sky fibers = 35
PLATE=2403 MJD=53789 sdR-b1-00037570.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

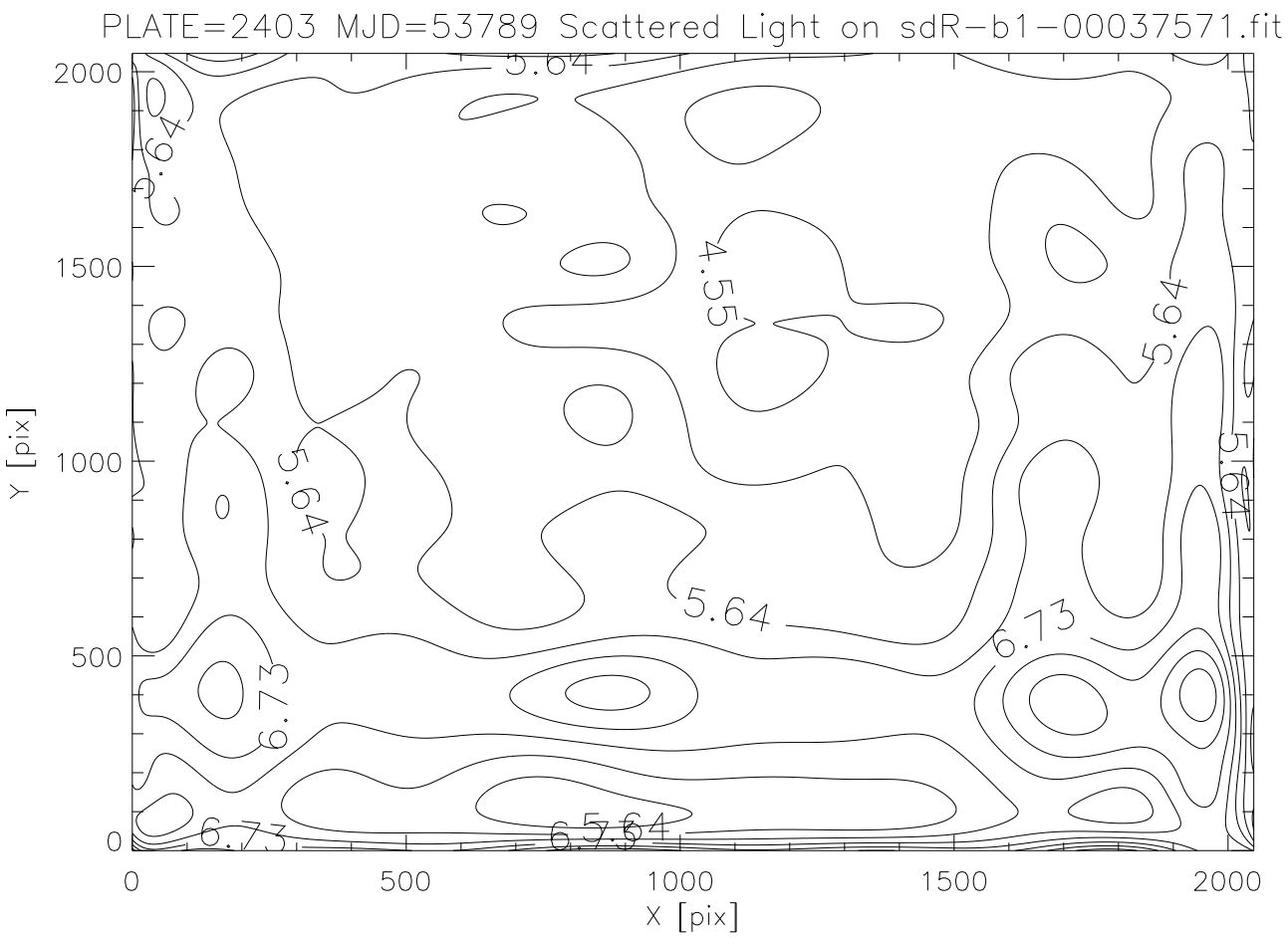

PLATE=2403 MJD=53789 sdR-b1-00037570.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 8.28 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

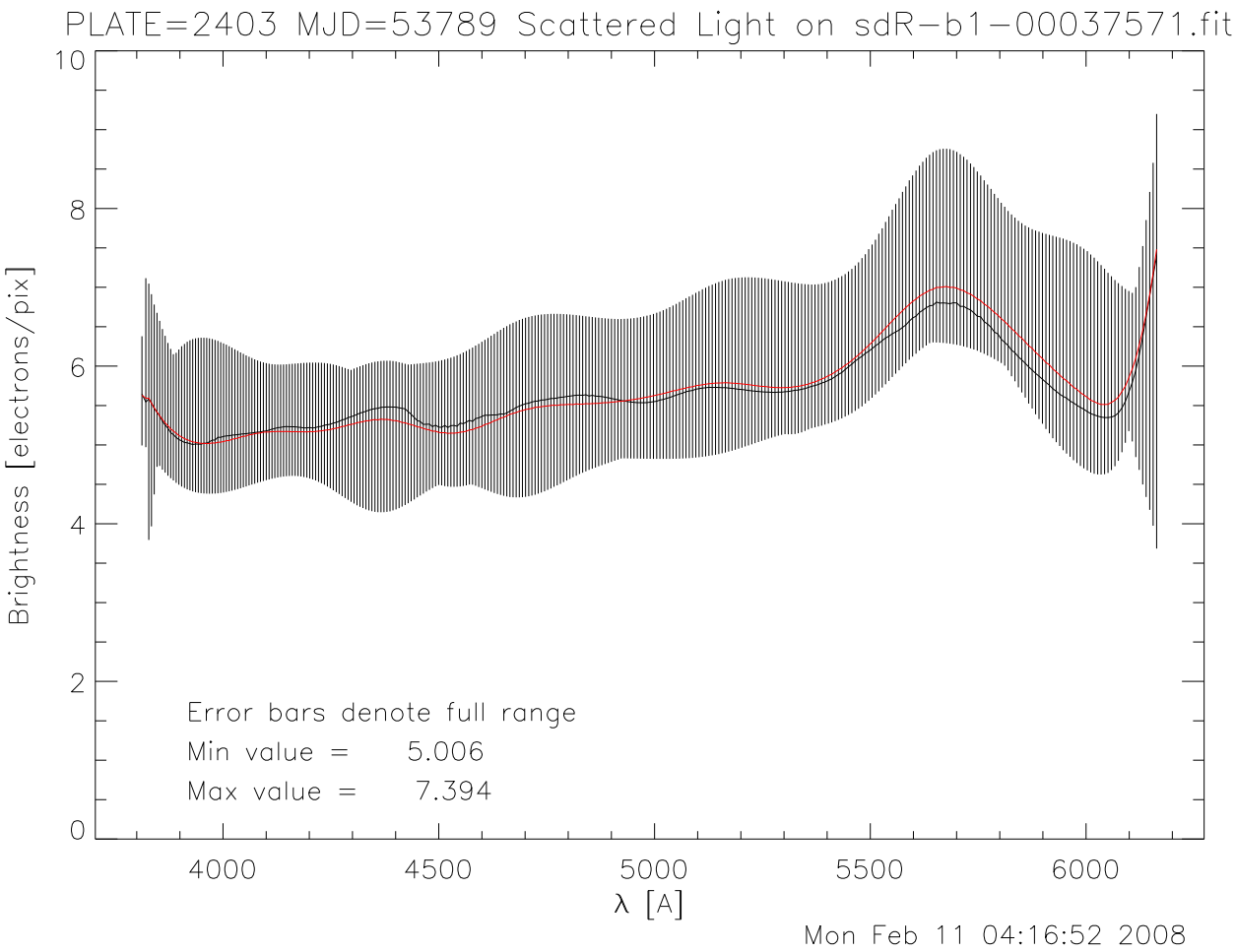

PLATE=2403 MJD=53789 sdR-b1-00037570.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.29 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

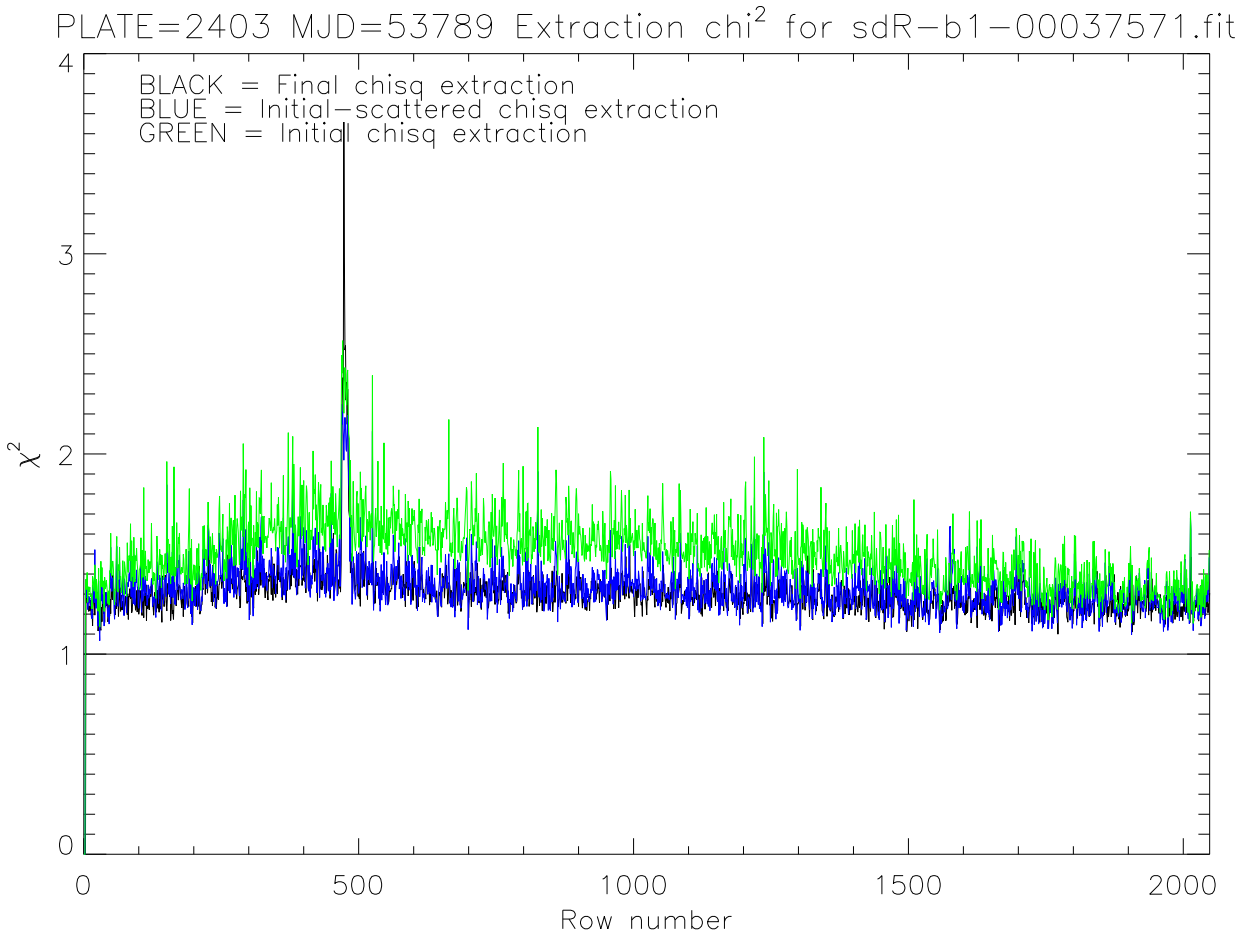

PLATE=2403 MJD=53789 Fiber-Flats for sdR-b1-00037574.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.475
Max value = 1.201
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 04:12:32 2008

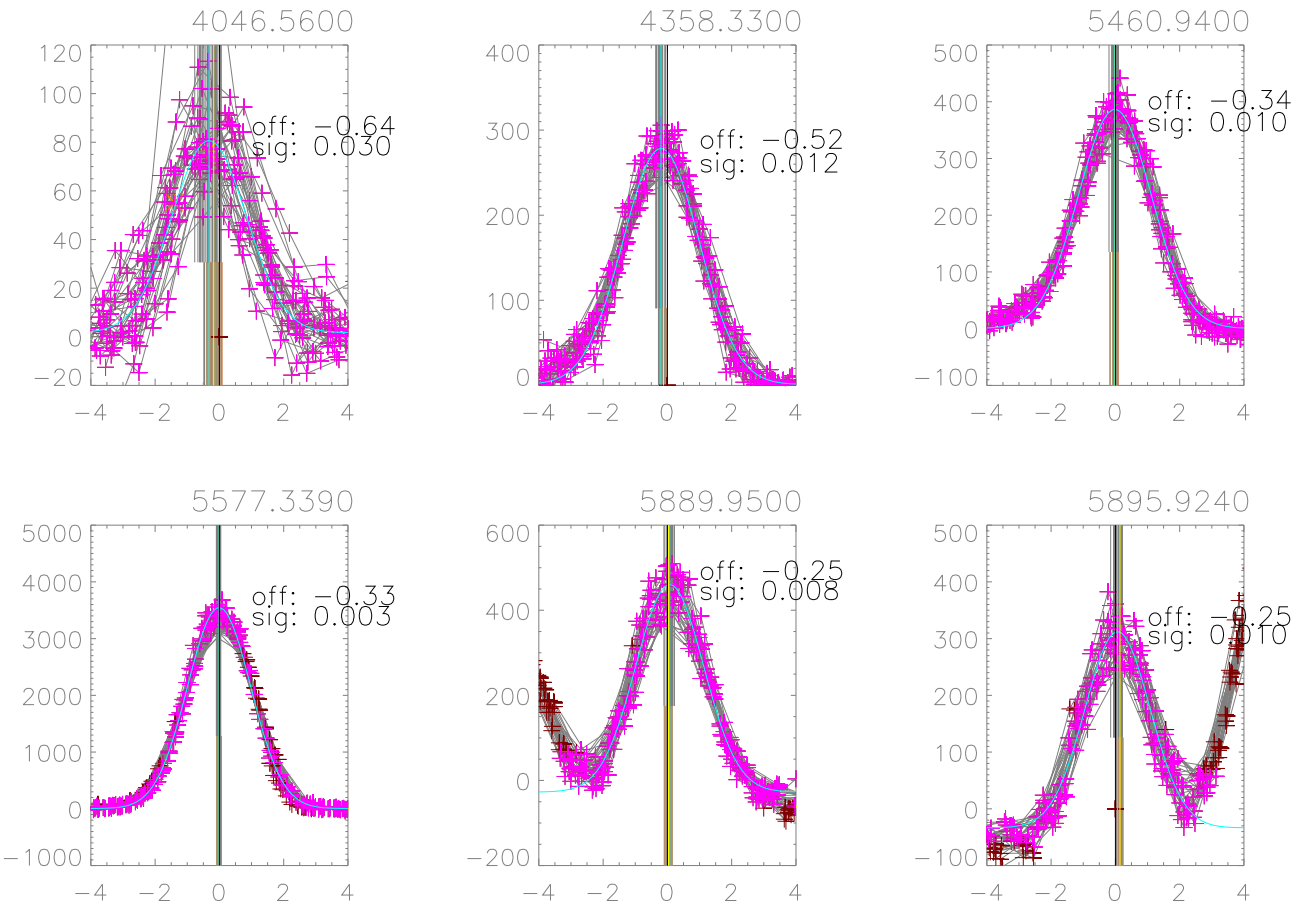

PLATE=2403 MJD=53789 Scattered Light before halo removal on sdR−b1−00037571.f
Y [pix]
X [pix]
0
500
1000
1500
2000
7.3
9.5
11.6

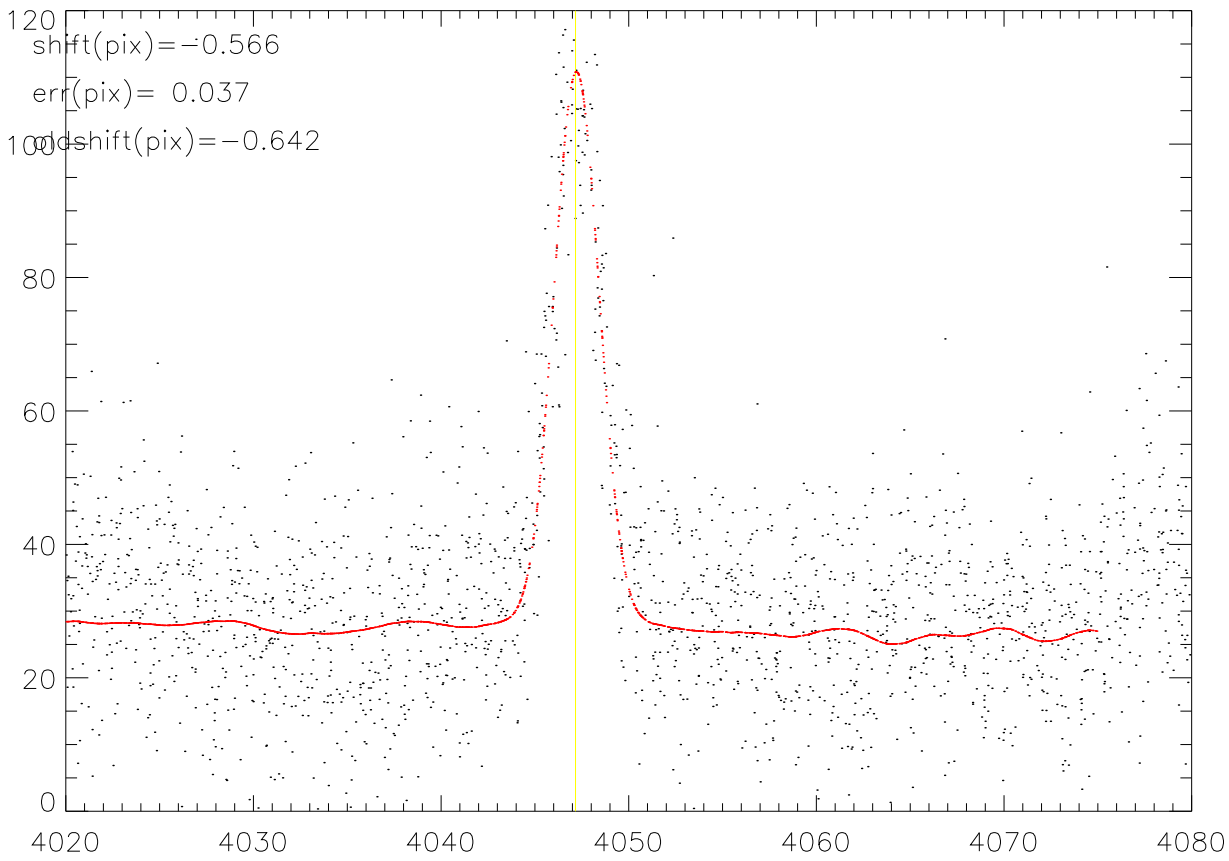

PLATE=2403 MJD=53789 Scattered Light before halo removal on sdR−b1−00037571.f
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 7.059
Max value = 10.870
Mon Feb 11 04:13:31 2008

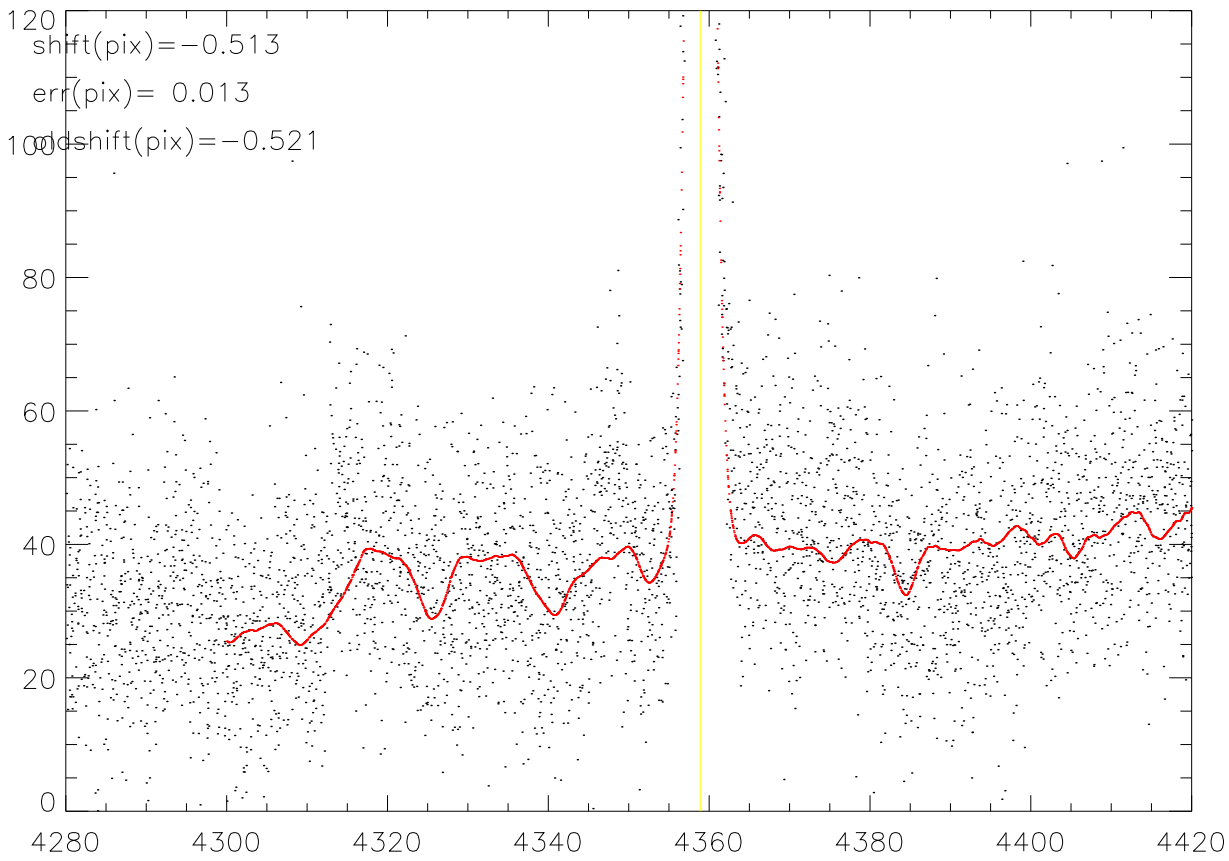

PLATE=2403 MJD=53789 Scattered Light on sdR−b1−00037571.fit
5.64
6.73
4.55
5.64
0
6.73
5.64
6.73
5.64
Y [pix]
X [pix]
0
500
1000
1500
2000

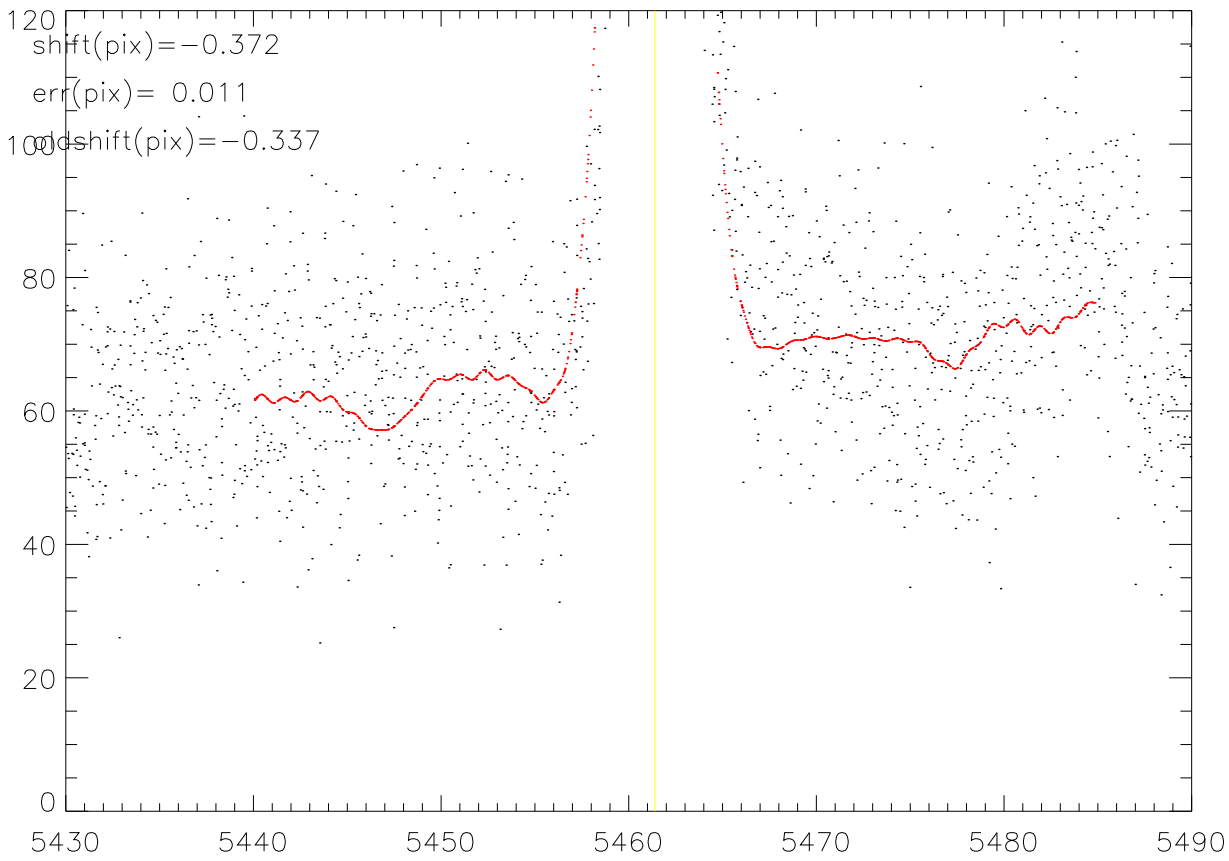

PLATE=2403 MJD=53789 Scattered Light on sdR-b1-00037571.fit
Brightness [electrons/pix]
10
8
6
4
2
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 5.006
Max value = 7.394
Mon Feb 11 04:16:52 2008

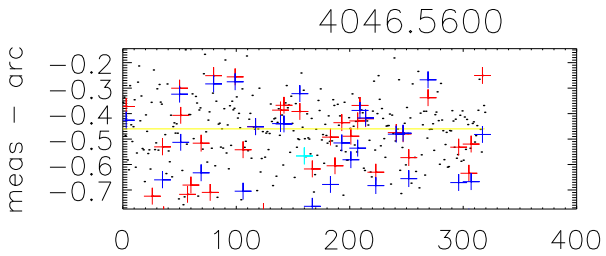

PLATE=2403 MJD=53789 Extraction chi^2 for sdR-b1-00037571.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

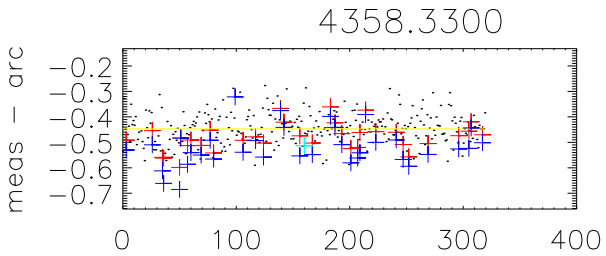

4046.5600
off: −0.64
sig: 0.030
4358.3300
off: −0.52
sig: 0.012
5460.9400
off: −0.34
sig: 0.010
5577.3390
off: −0.33
sig: 0.003
5889.9500
off: −0.25
sig: 0.008
5895.9240
off: −0.25
sig: 0.010

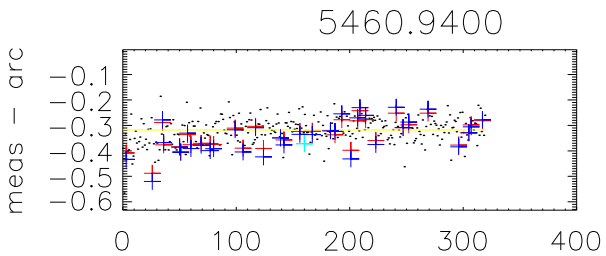

shift(pix)=−0.566
err(pix)= 0.037
oldshift(pix)=−0.642
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

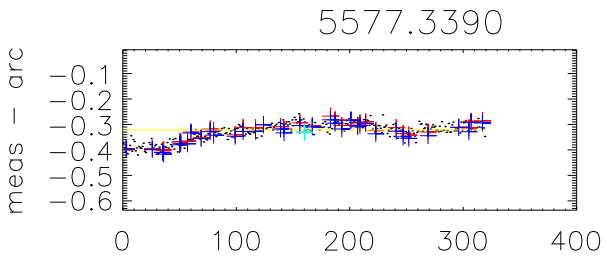

shift(pix)=−0.513
err(pix)= 0.013
oldshift(pix)=−0.521
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

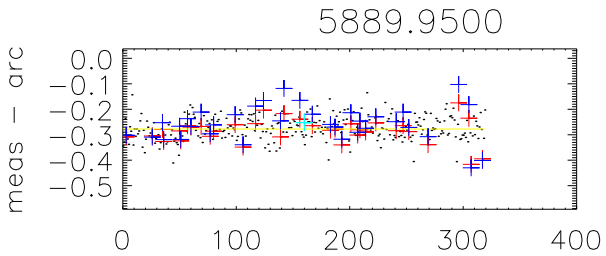

shift(pix)=−0.372
err(pix)= 0.011
oldshift(pix)=−0.337
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

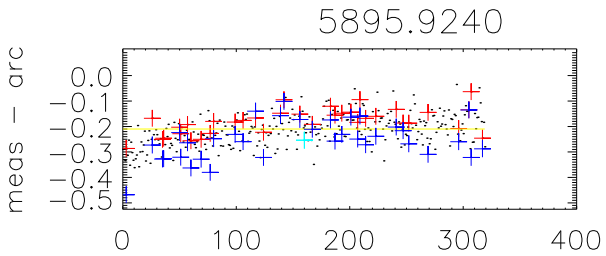

4046.5600
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

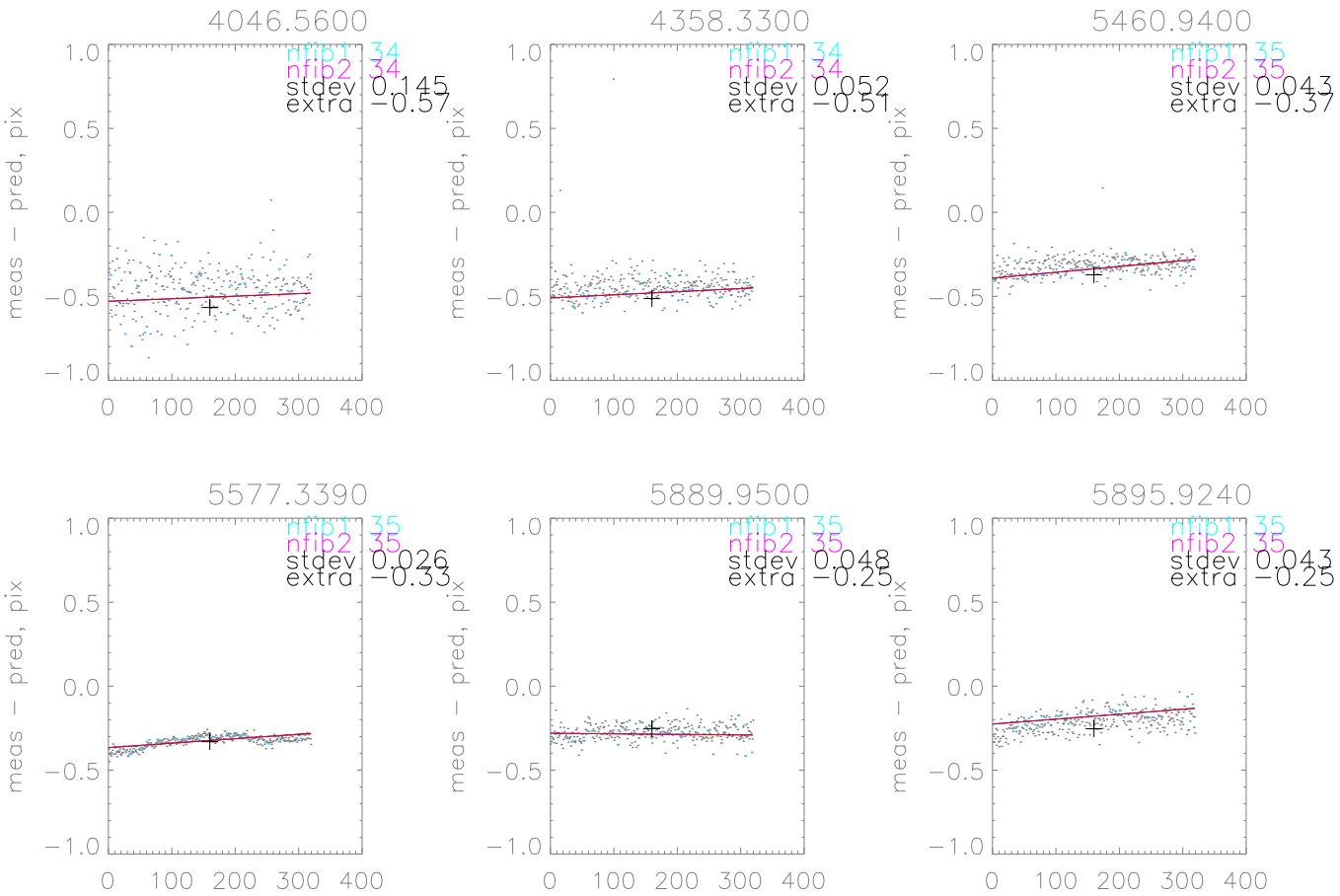

4358.3300
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

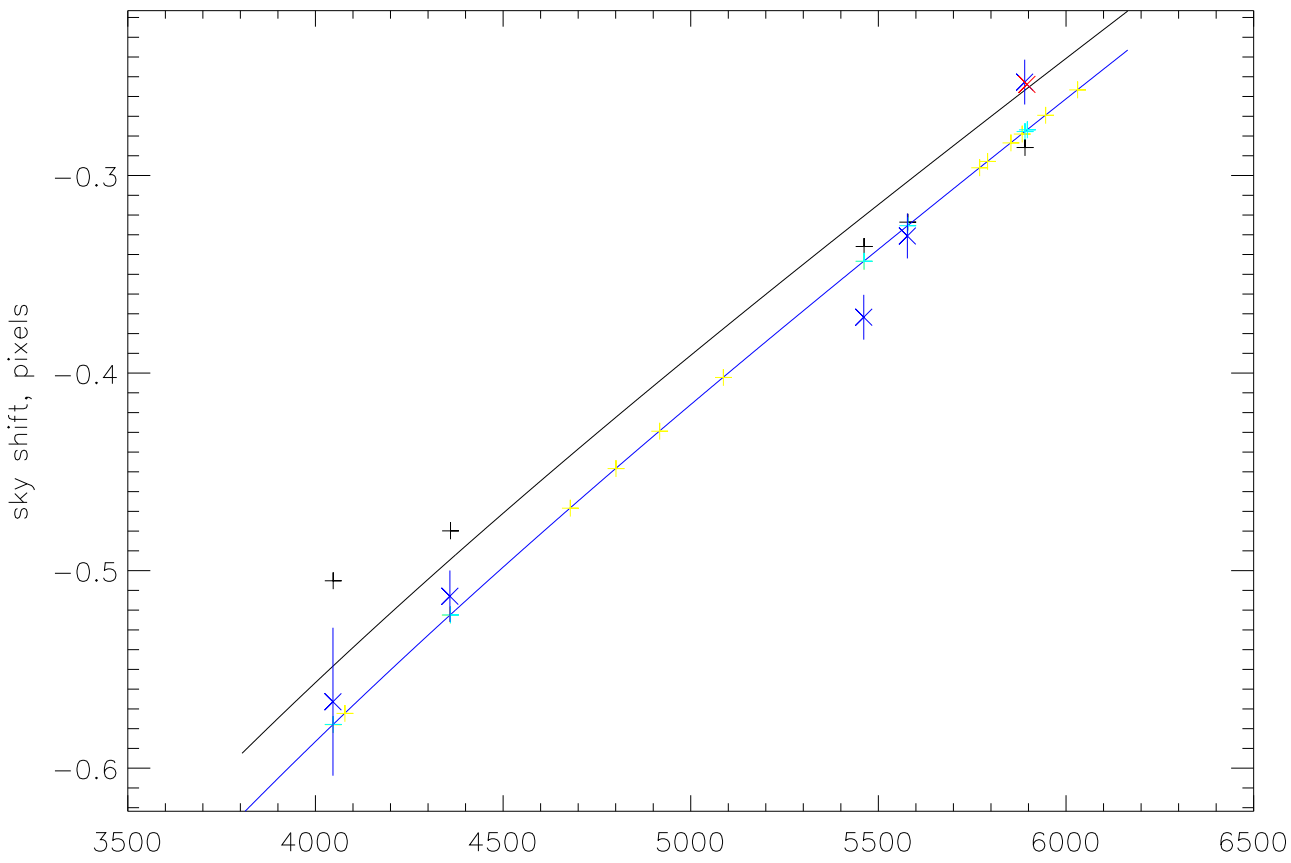

5460.9400
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400


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

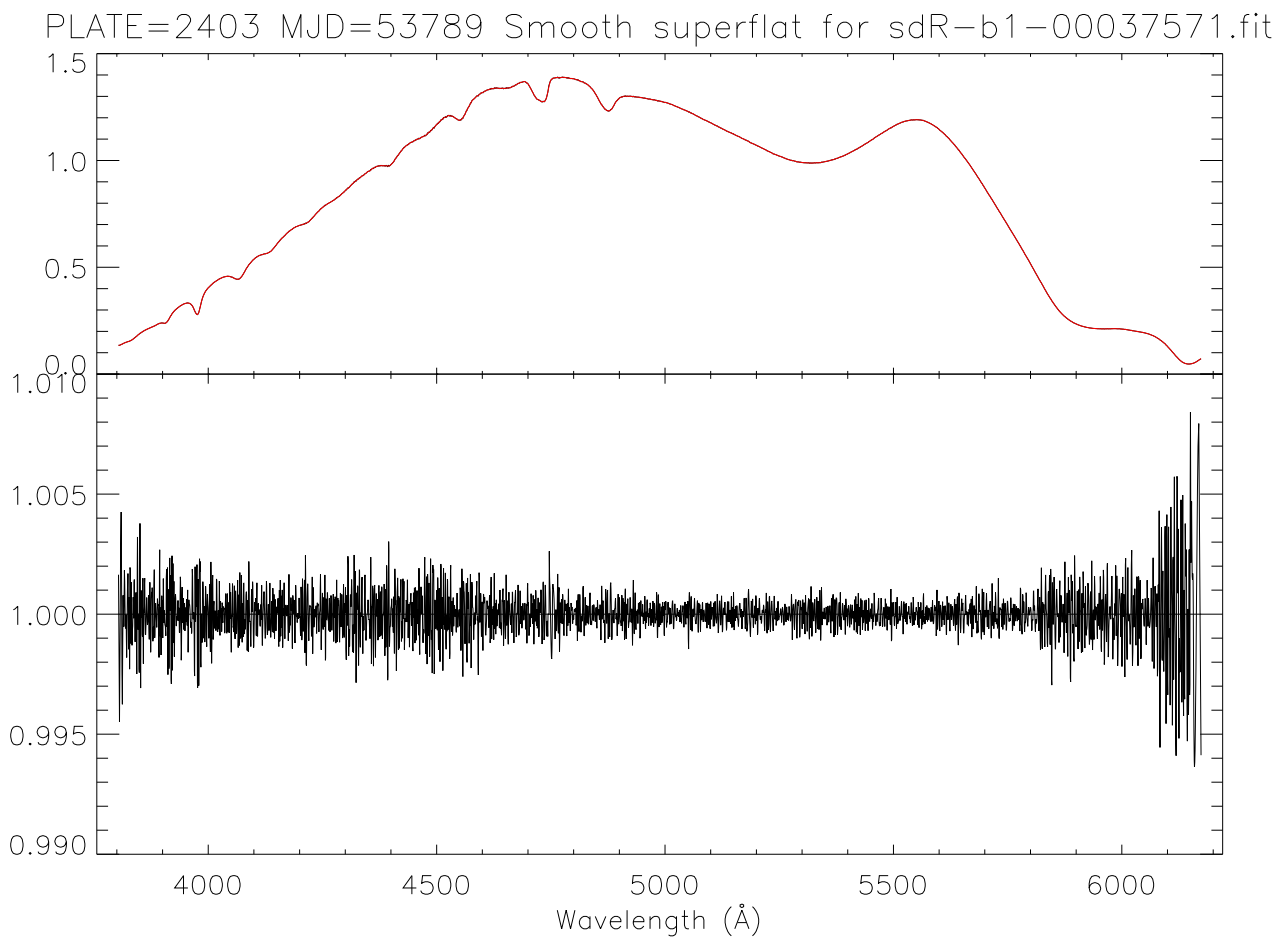

5889.9500
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

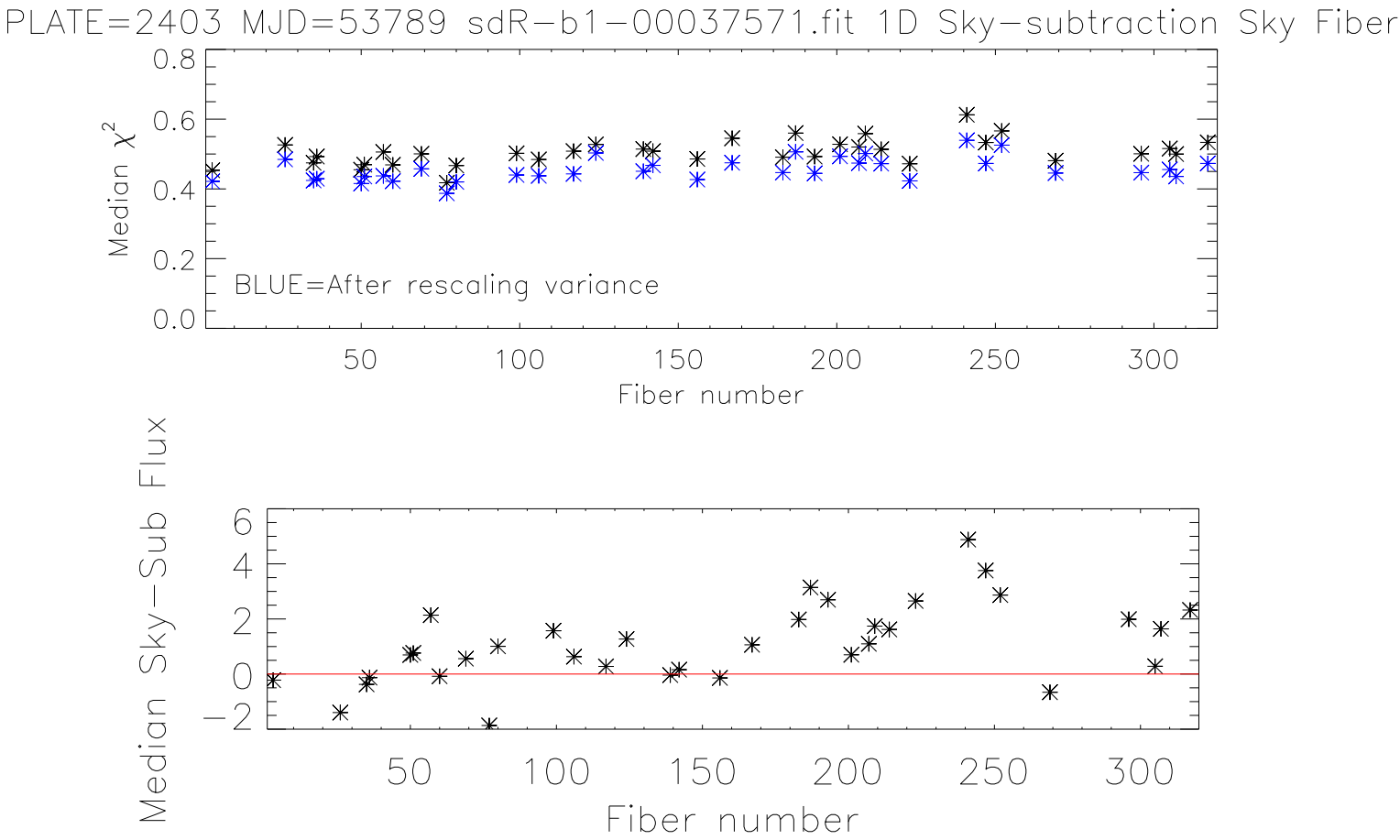

5895.9240
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

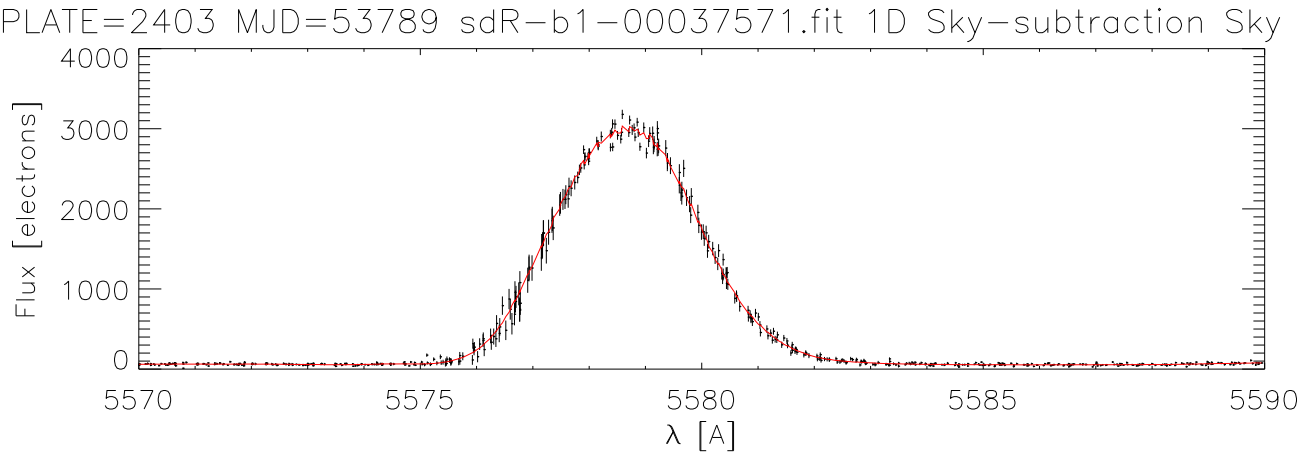

4046.5600
nfib1 34
nfib2 34
stdev 0.145
extra −0.57
4358.3300
nfib1 34
nfib2 34
stdev 0.052
extra −0.51
5460.9400
nfib1 35
nfib2 35
stdev 0.043
extra −0.37
5577.3390
nfib1 35
nfib2 35
stdev 0.026
extra −0.33
5889.9500
nfib1 35
nfib2 35
stdev 0.048
extra −0.25
5895.9240
nfib1 35
nfib2 35
stdev 0.043
extra −0.25
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

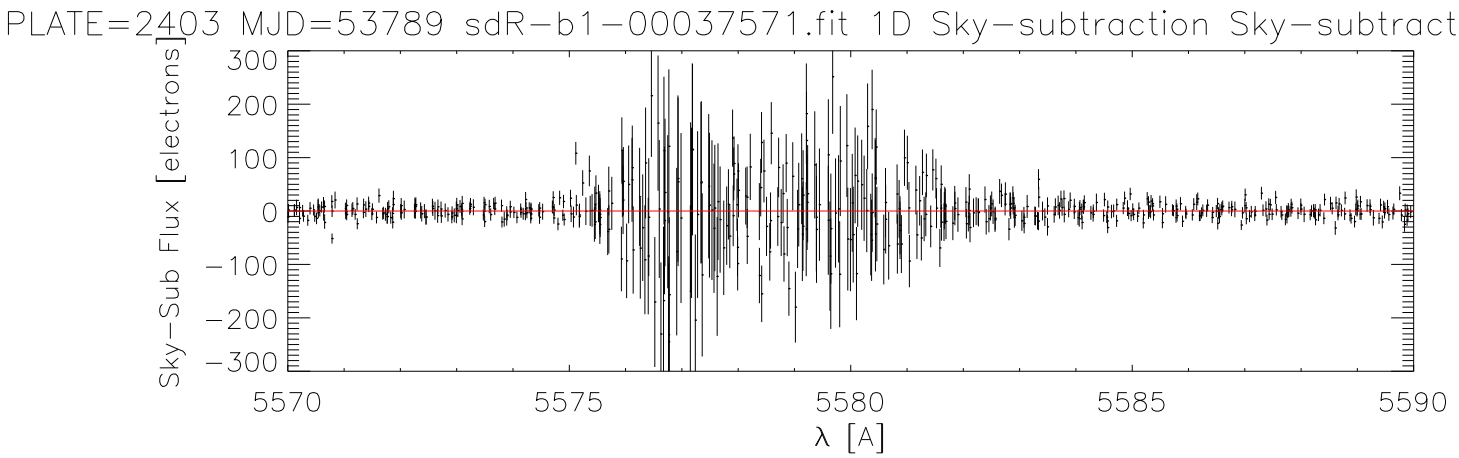

sky shift, pixels
−0.3
−0.4
−0.5
−0.6
3500
4000
4500
5000
5500
6000
6500

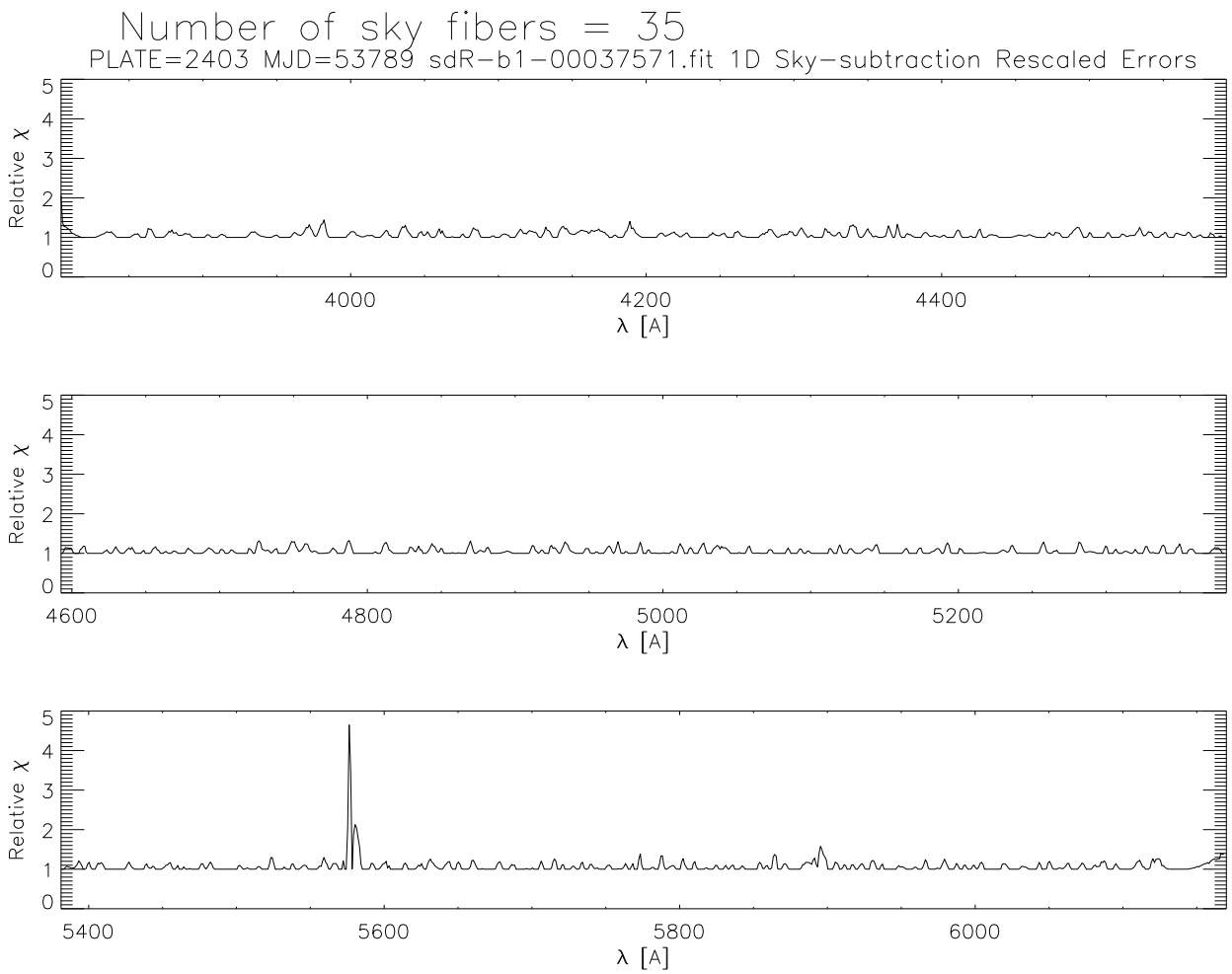
es= 0.0000

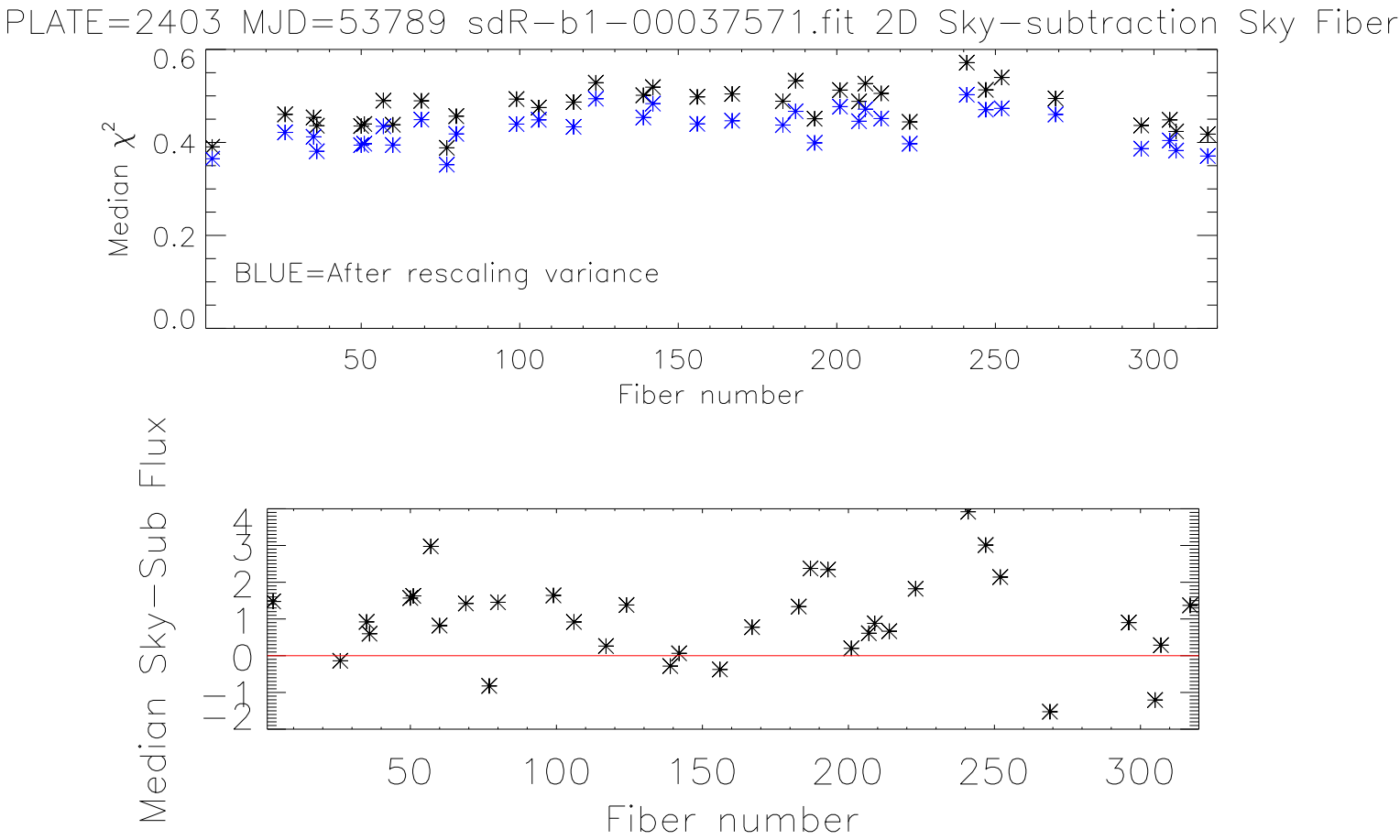

PLATE=2403 MJD=53789 Smooth superflat for sdR-b1-00037571.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

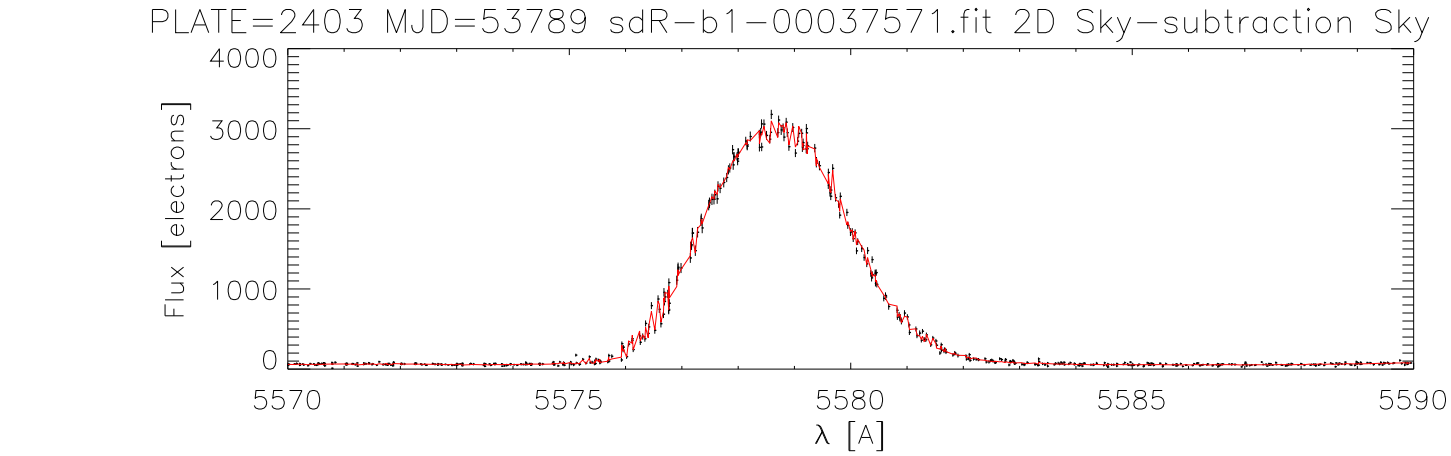

PLATE=2403 MJD=53789 sdR-b1-00037571.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
−2
0
2
4
6
50
100
150
200
250
300
Fiber number

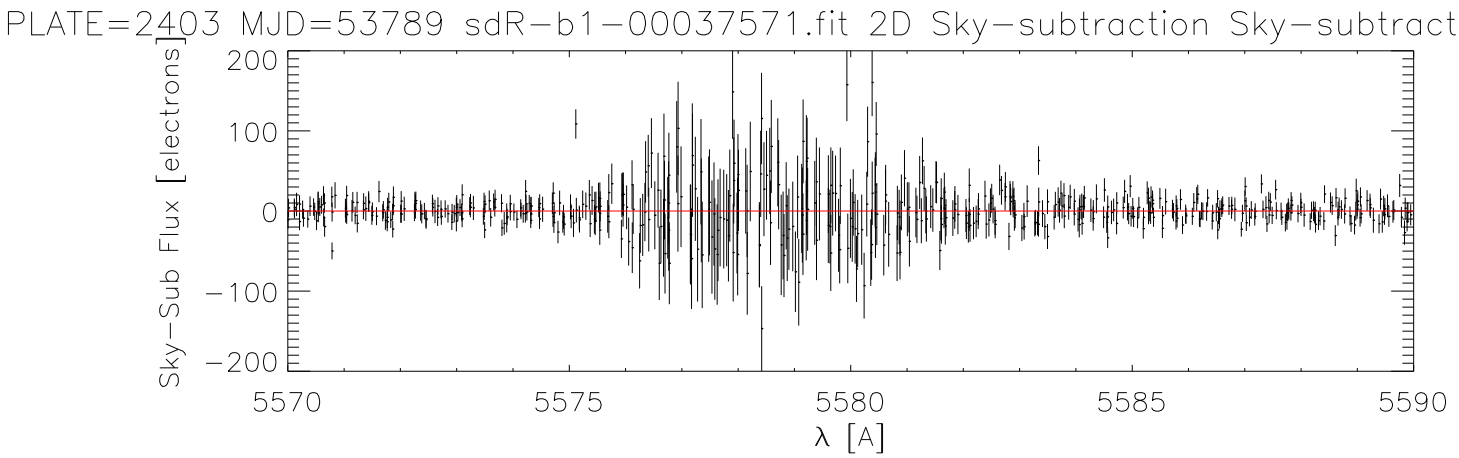

PLATE=2403 MJD=53789 sdR-b1-00037571.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

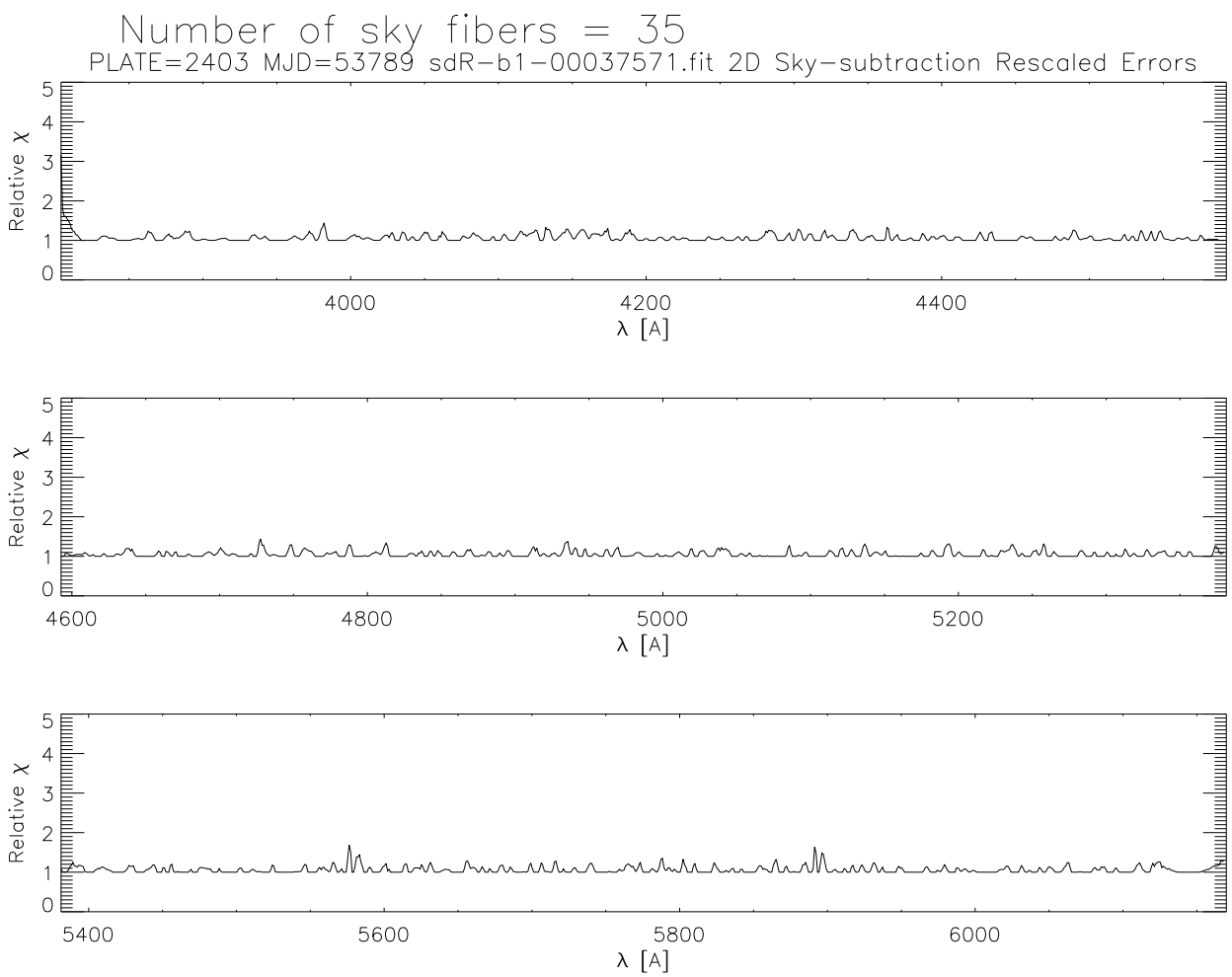

PLATE=2403 MJD=53789 sdR-b1-00037571.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

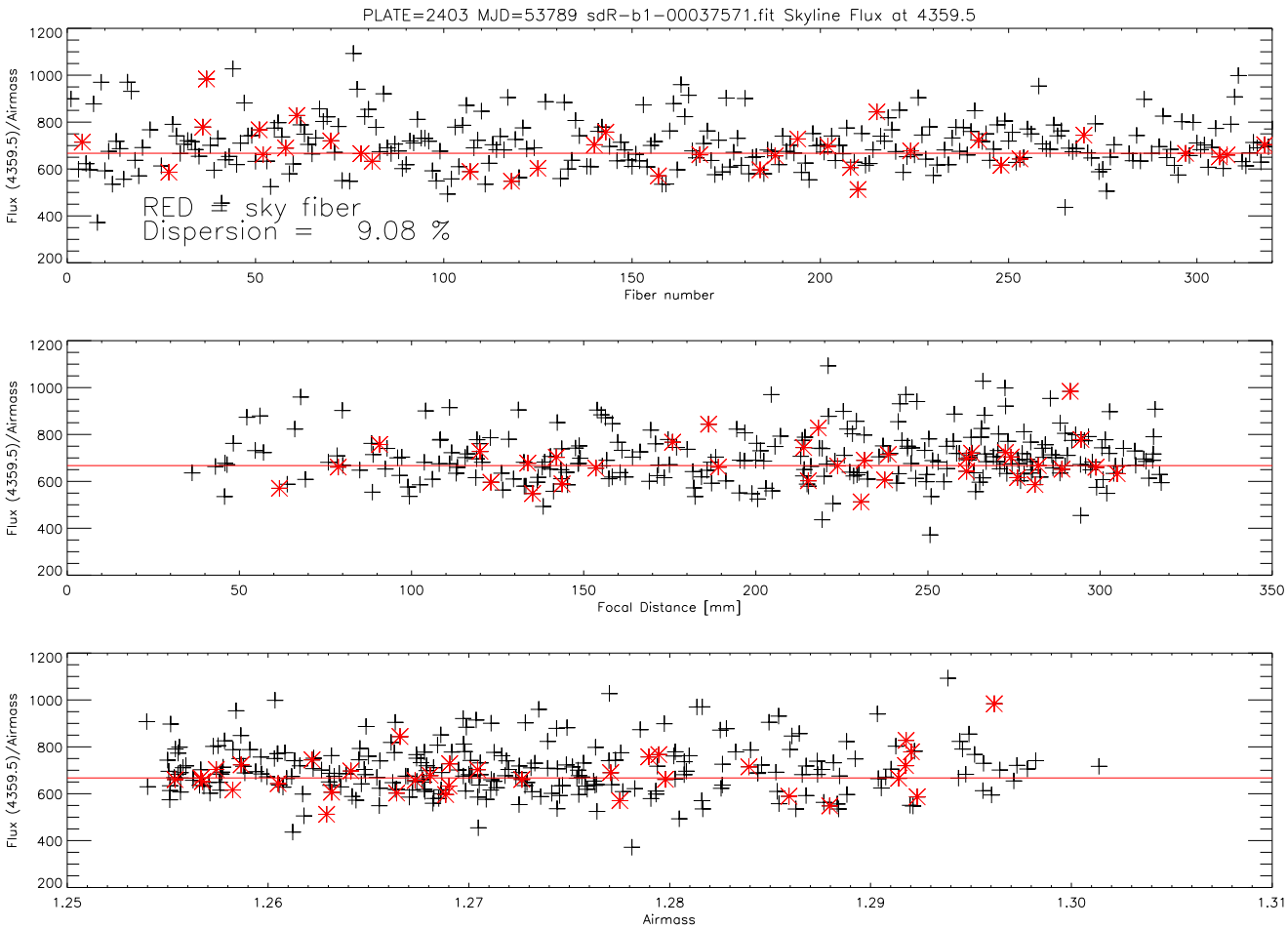

Number of sky fibers = 35
PLATE=2403 MJD=53789 sdR-b1-00037571.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

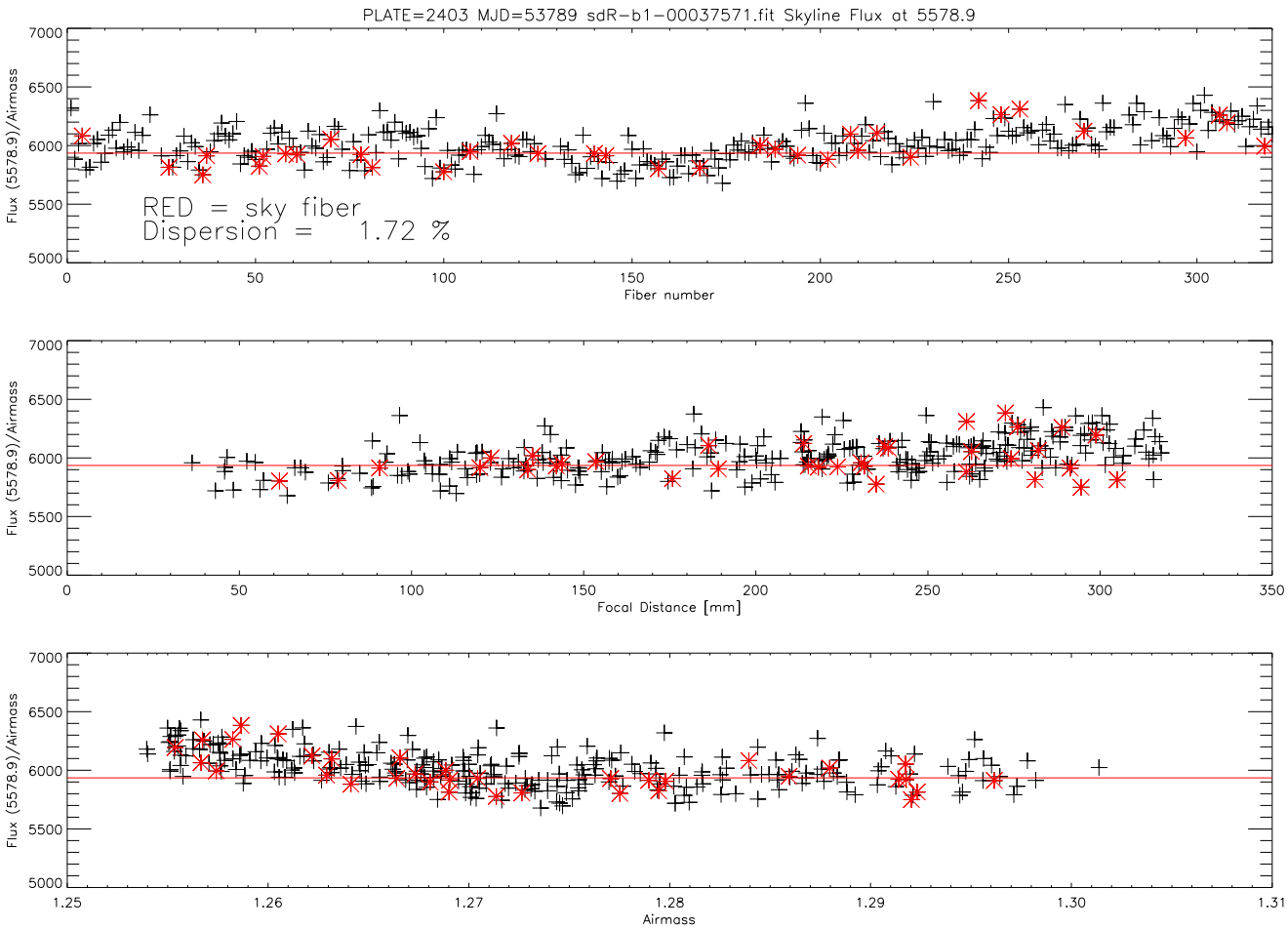

PLATE=2403 MJD=53789 sdR-b1-00037571.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
4
50
100
150
200
250
300
Fiber number

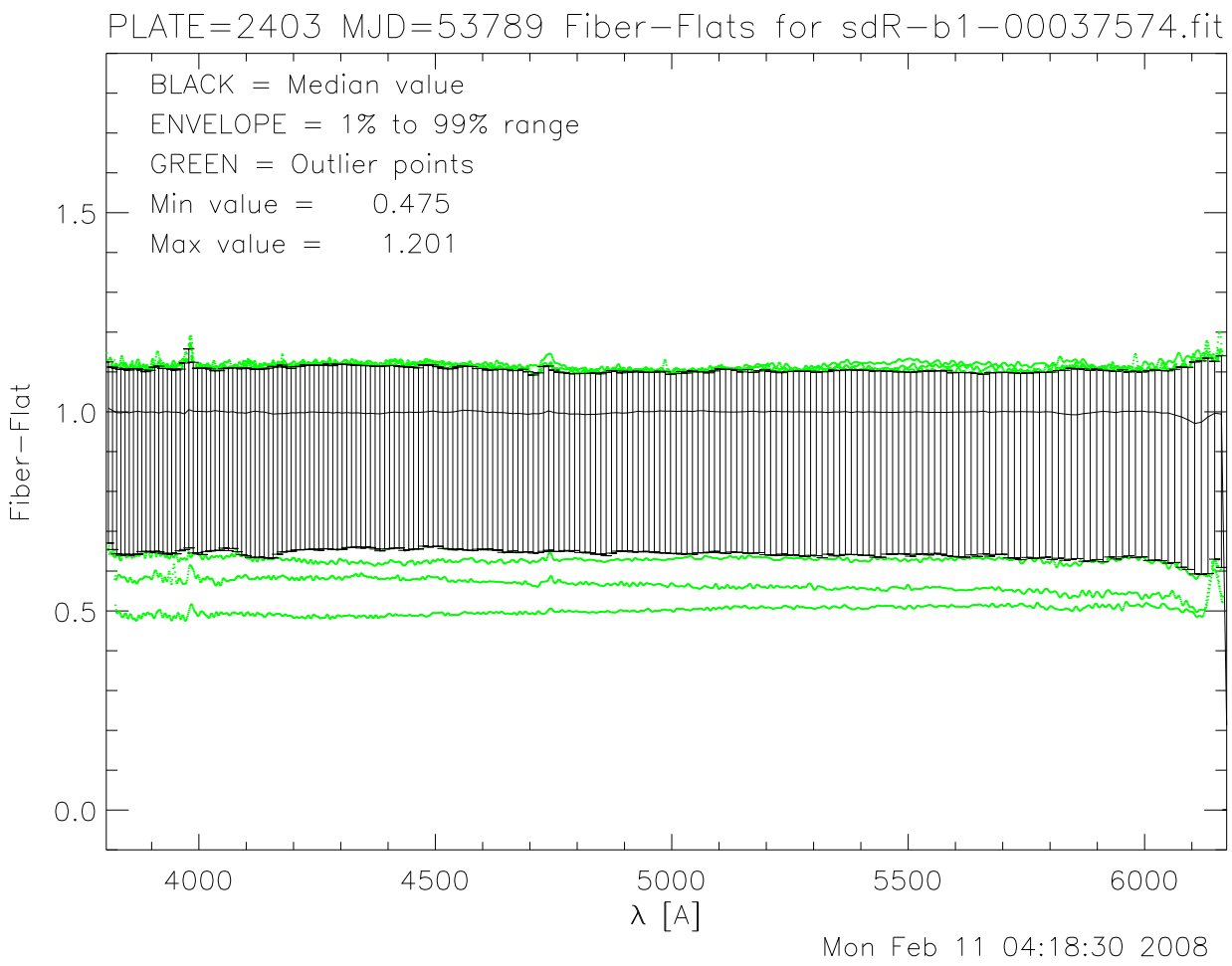

PLATE=2403 MJD=53789 sdR-b1-00037571.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

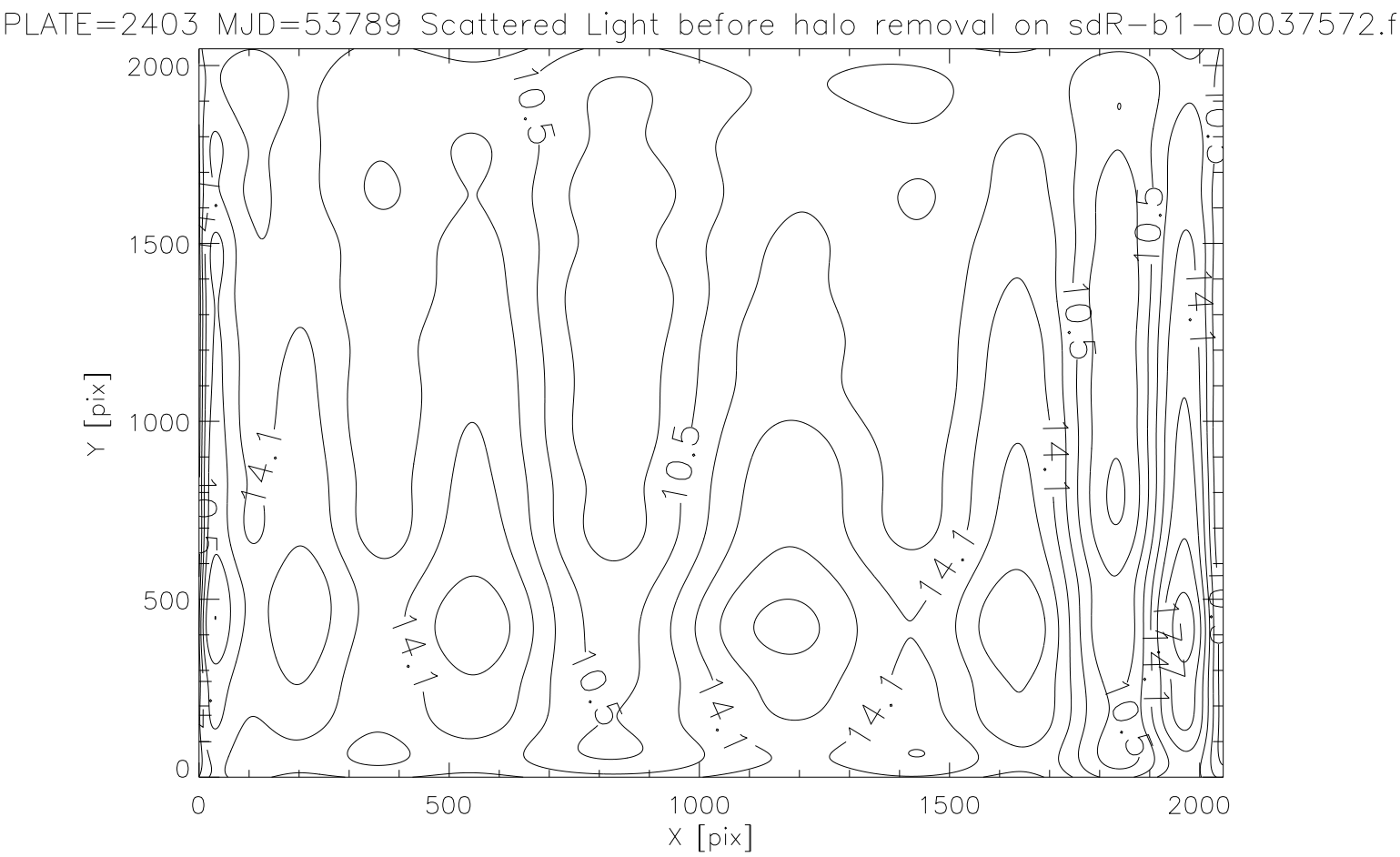

PLATE=2403 MJD=53789 sdR-b1-00037571.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

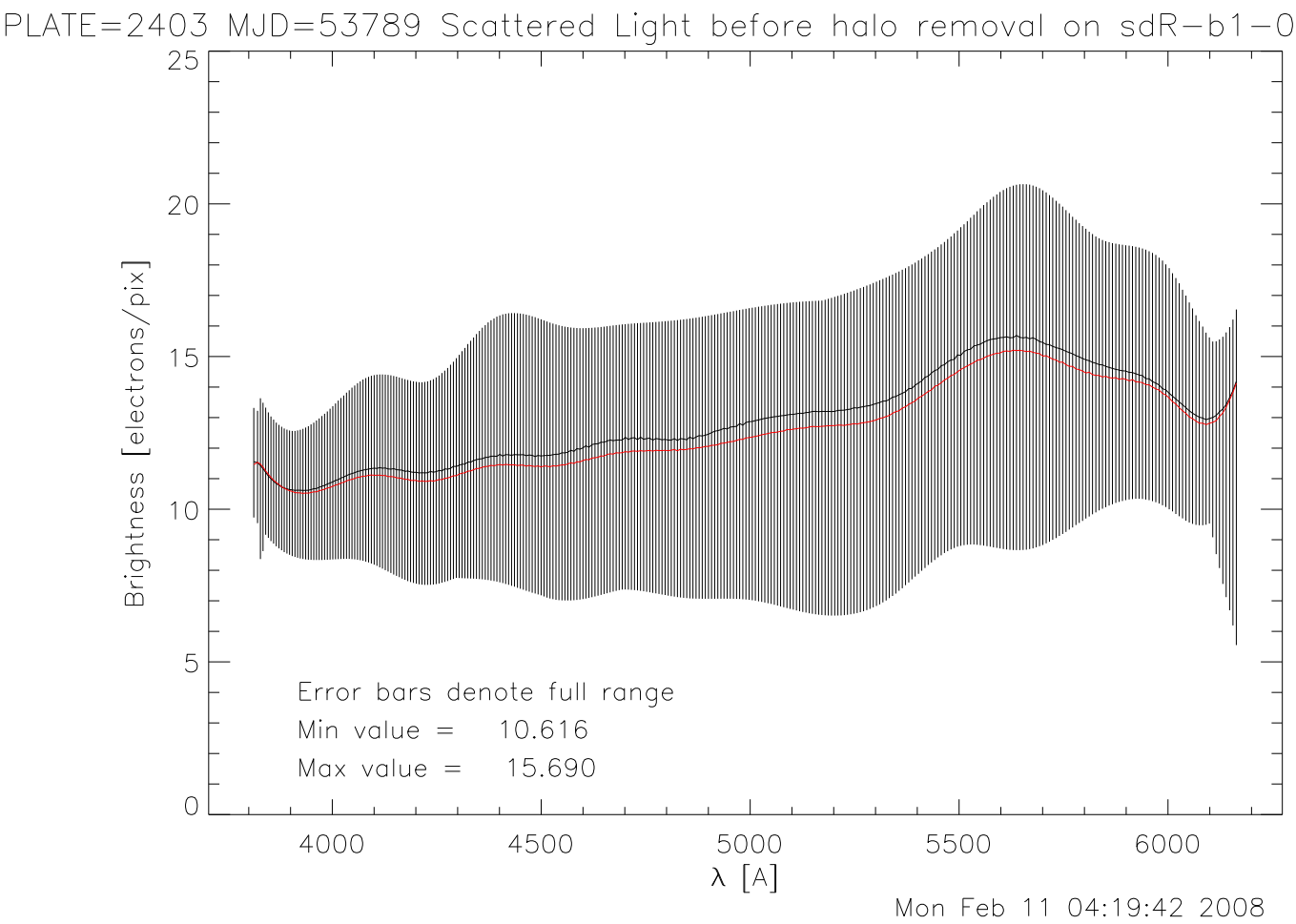

Number of sky fibers = 35
PLATE=2403 MJD=53789 sdR-b1-00037571.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

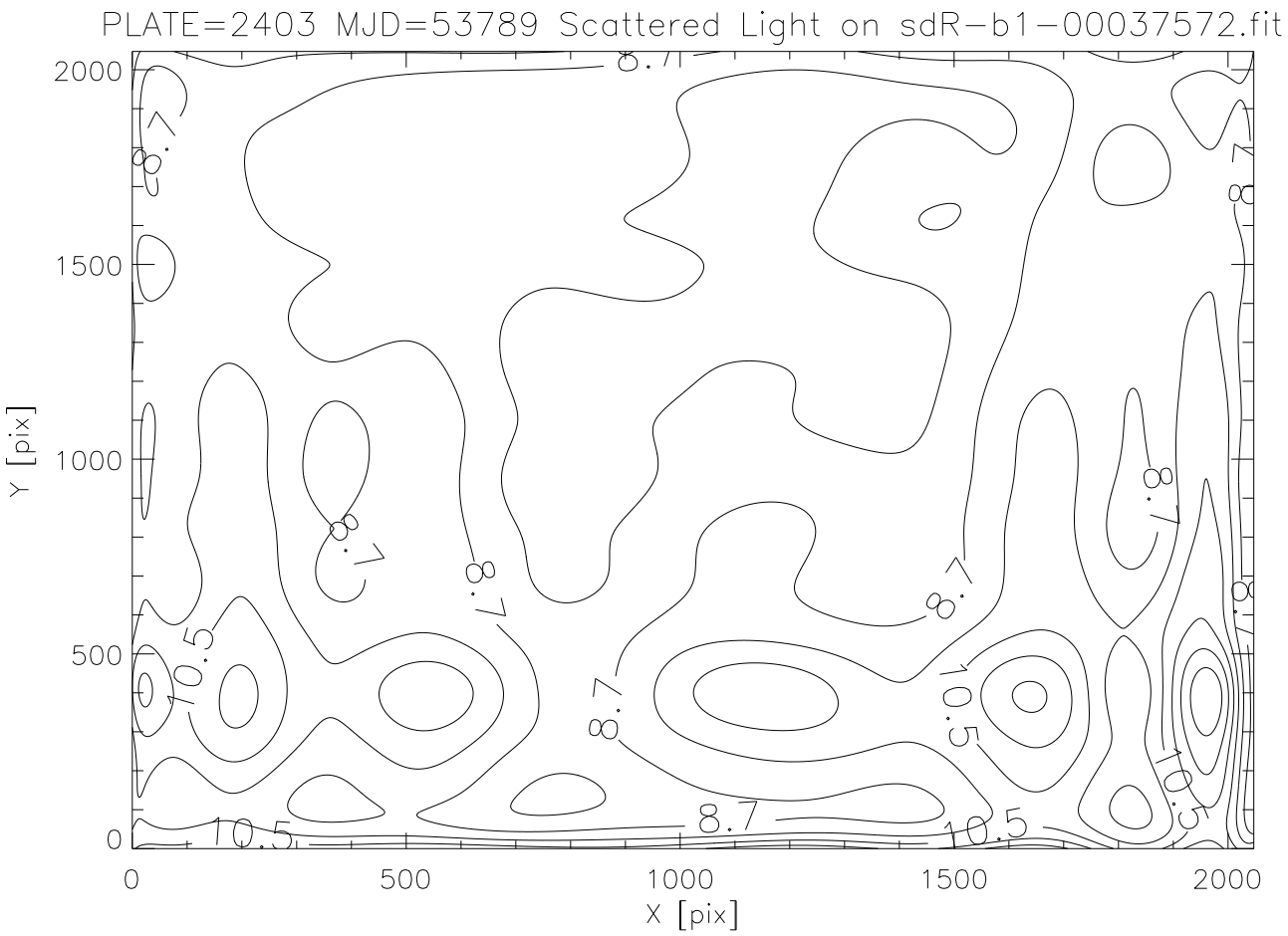

PLATE=2403 MJD=53789 sdR-b1-00037571.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 9.08 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

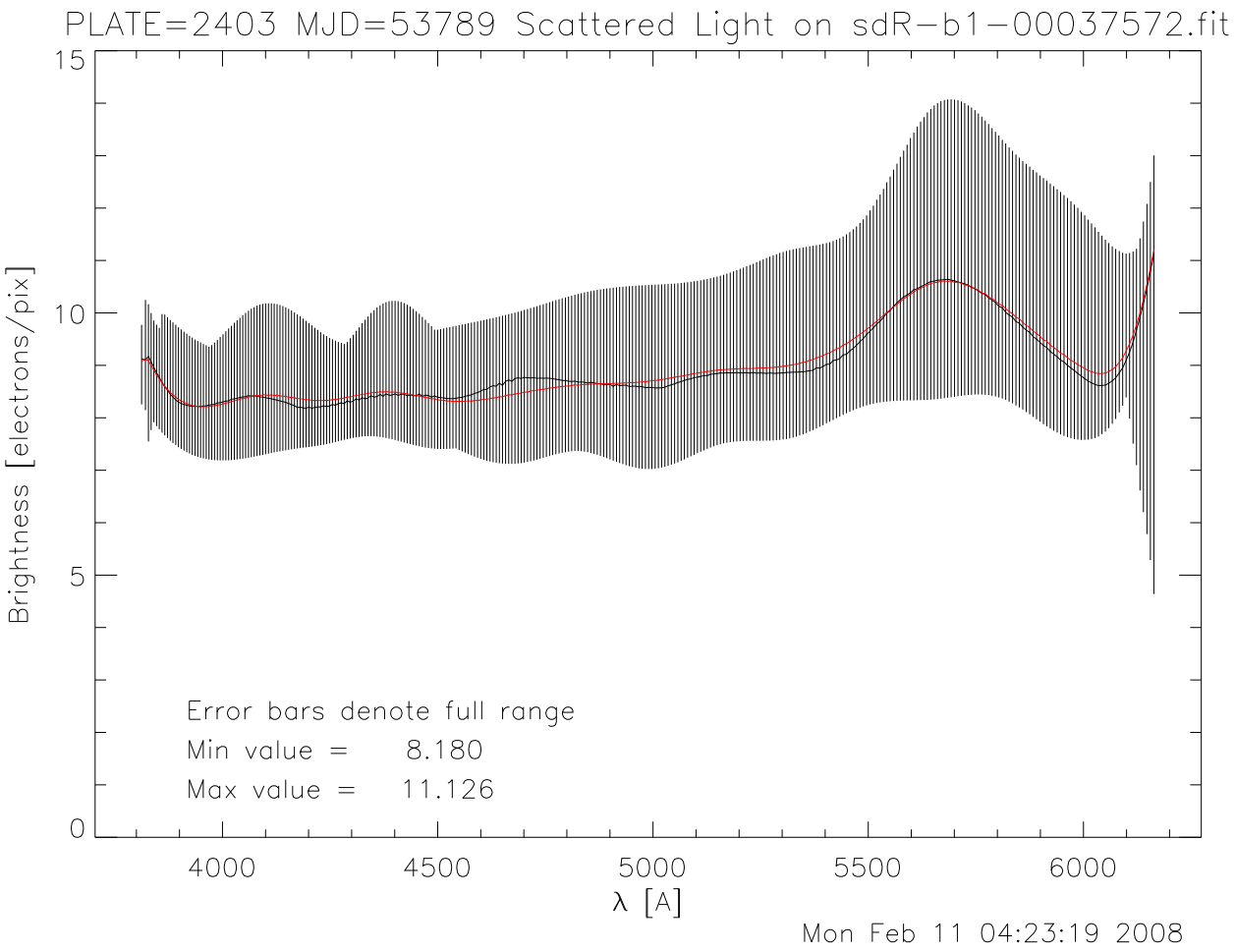

PLATE=2403 MJD=53789 sdR-b1-00037571.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.72 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

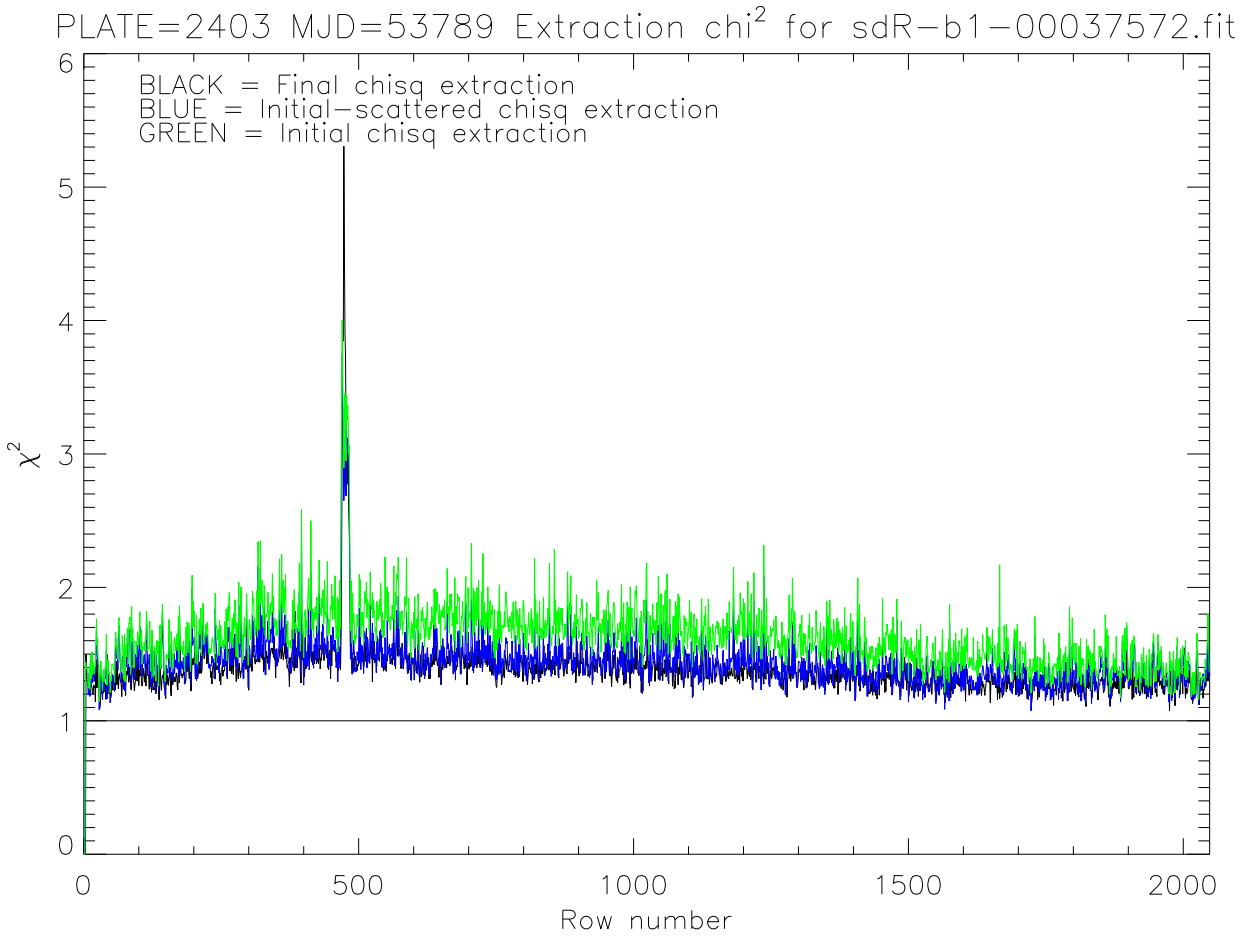

PLATE=2403 MJD=53789 Fiber−Flats for sdR−b1−00037574.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.475
Max value = 1.201
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 04:18:30 2008

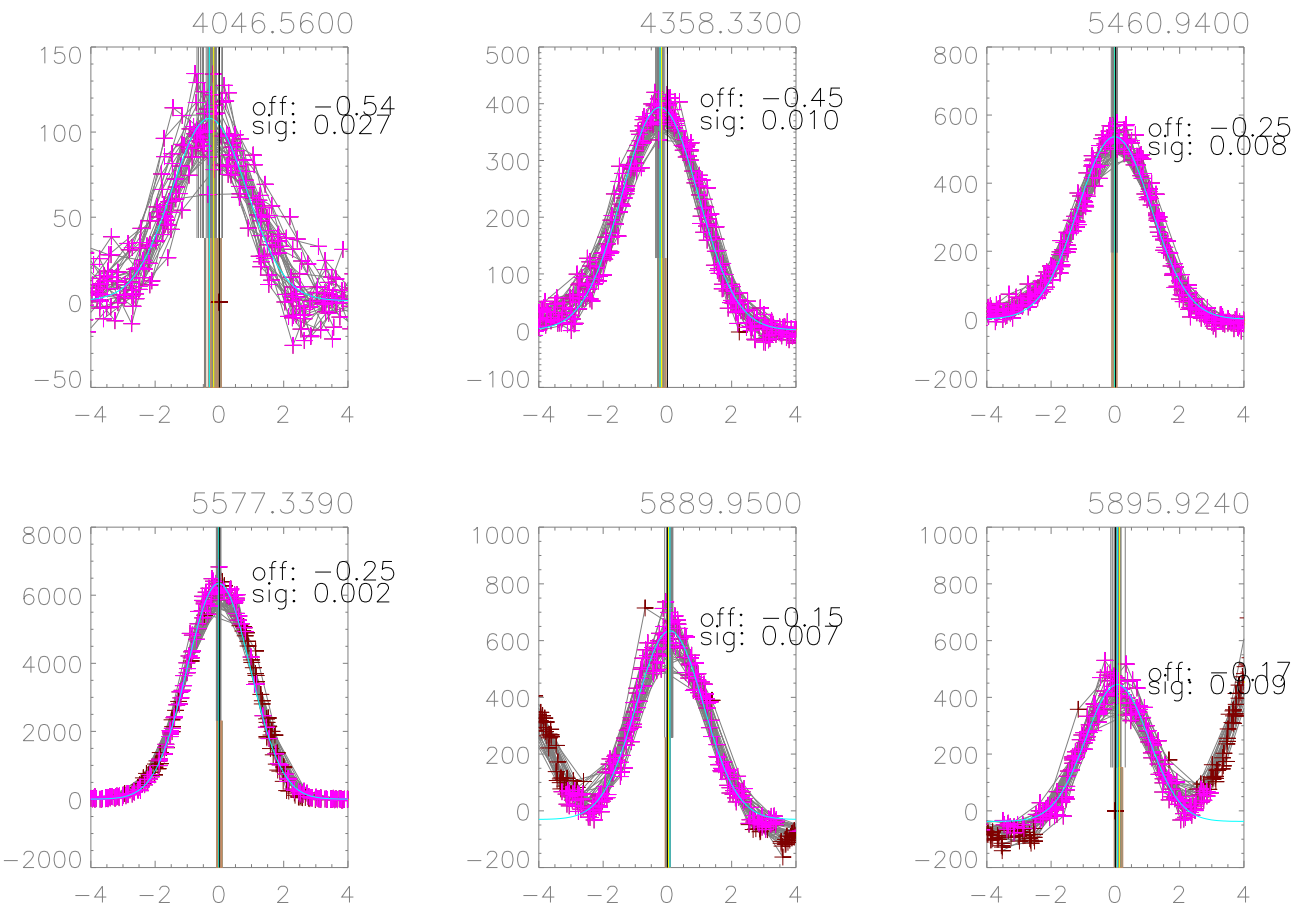

PLATE=2403 MJD=53789 Scattered Light before halo removal on sdR-b1-00037572.f
Y [pix]
X [pix]
0
500
1000
1500
2000
10.5
14.1

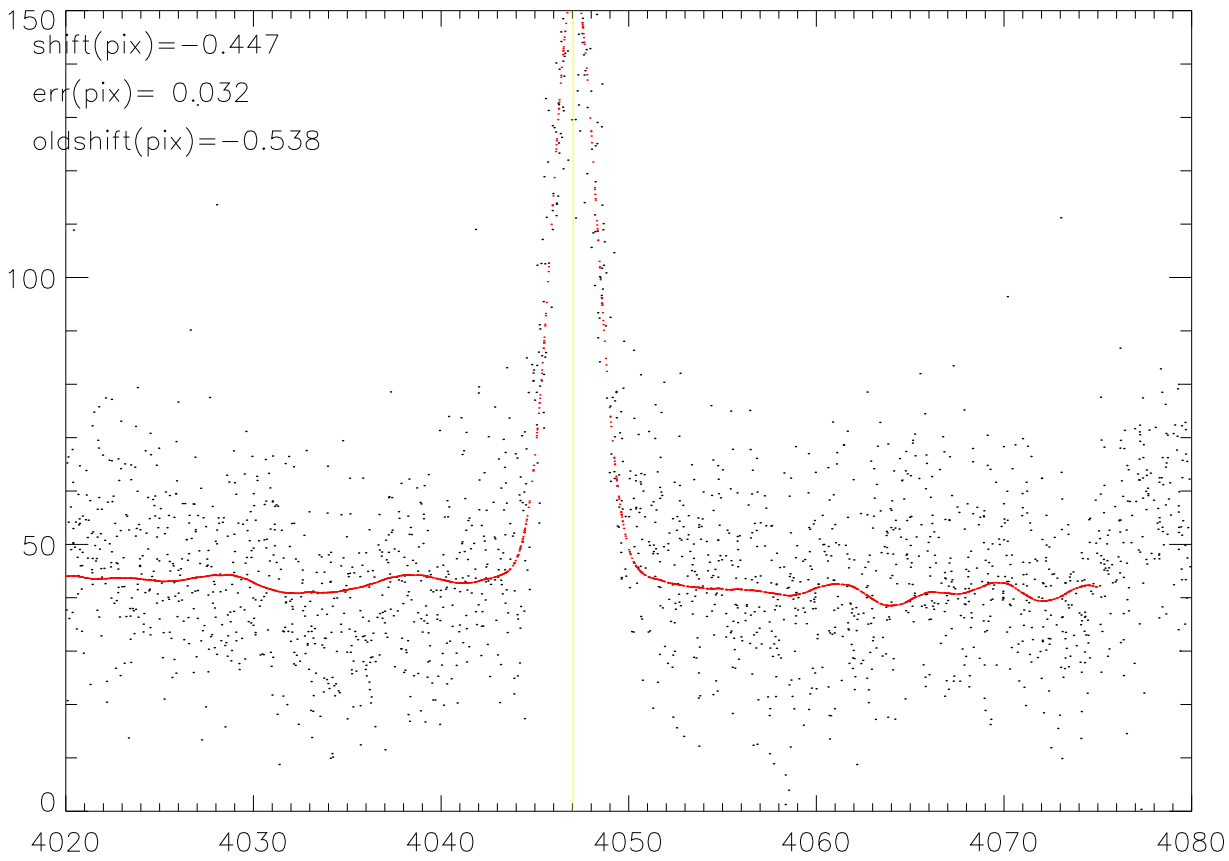

PLATE=2403 MJD=53789 Scattered Light before halo removal on sdR-b1-00037572.f
Brightness [electrons/pix]
25
20
15
10
5
0
Error bars denote full range
Min value = 10.616
Max value = 15.690
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 04:19:42 2008

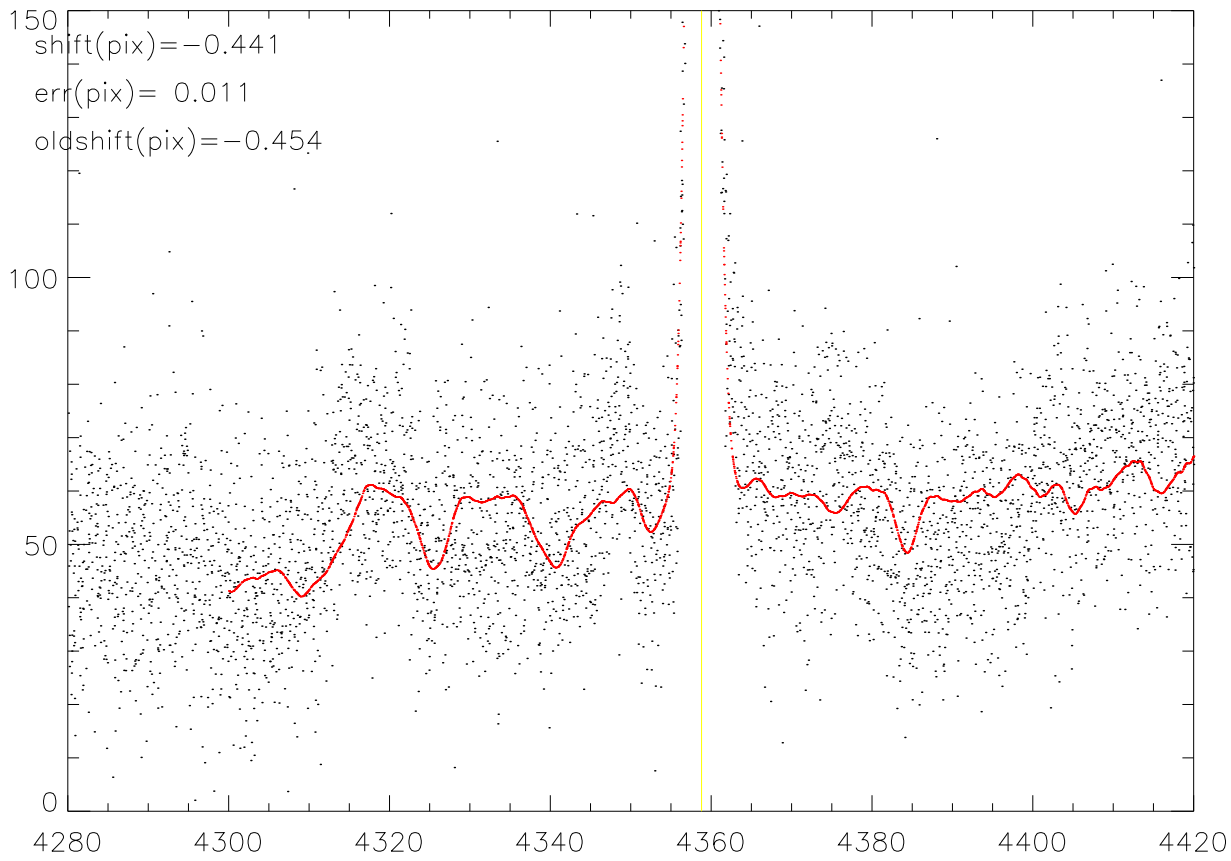

PLATE=2403 MJD=53789 Scattered Light on sdR-b1-00037572.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
8.7
10.5

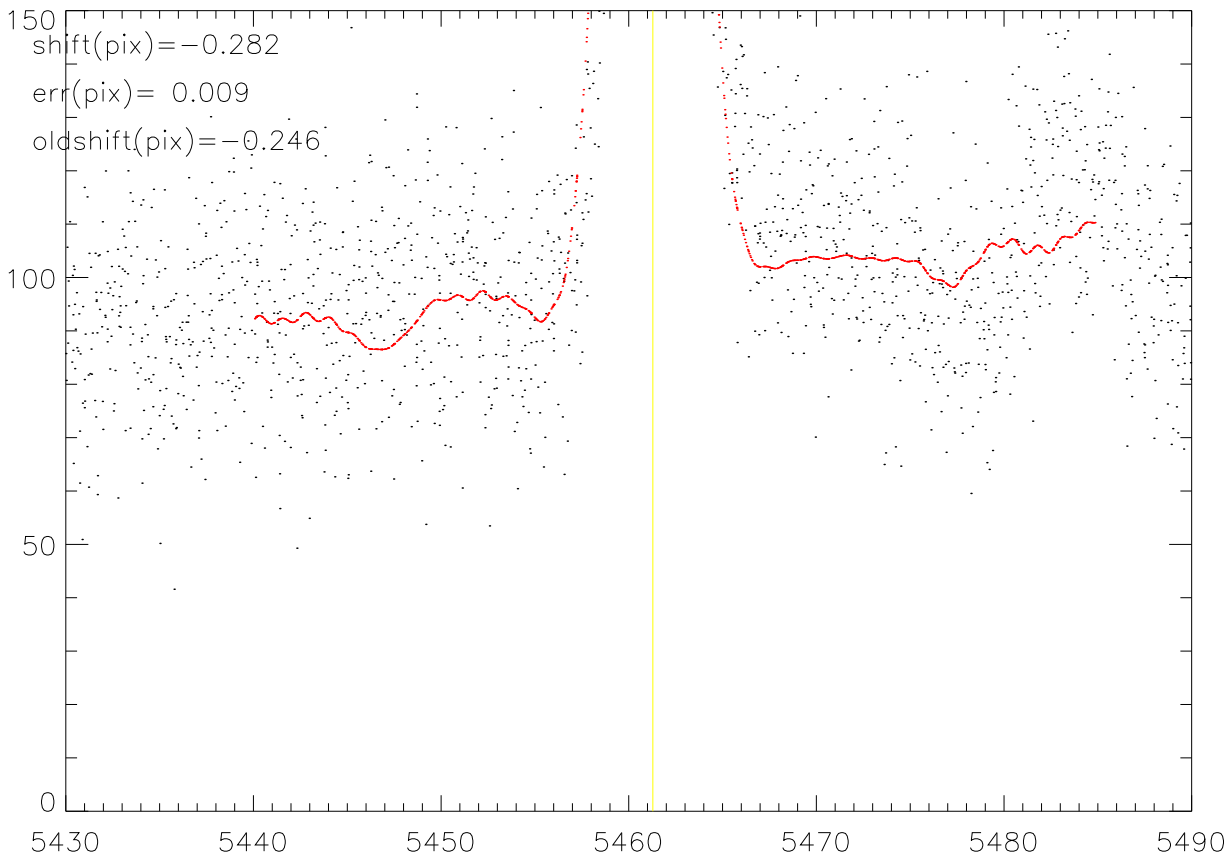

PLATE=2403 MJD=53789 Scattered Light on sdR-b1-00037572.fit
Brightness [electrons/pix]
15
10
5
0
Error bars denote full range
Min value = 8.180
Max value = 11.126
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 04:23:19 2008

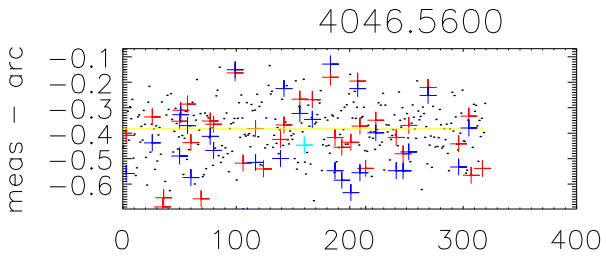

PLATE=2403 MJD=53789 Extraction chi^2 for sdR−b1−00037572.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

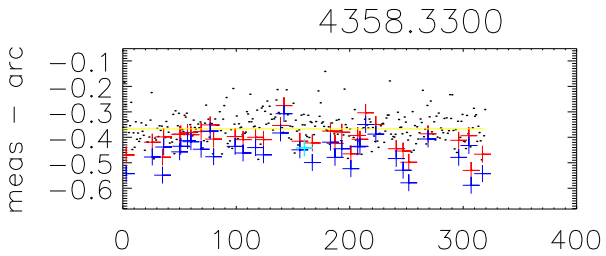

4046.5600
off: −0.54
sig: 0.027
4358.3300
off: −0.45
sig: 0.010
5460.9400
off: −0.25
sig: 0.008
5577.3390
off: −0.25
sig: 0.002
5889.9500
off: −0.15
sig: 0.007
5895.9240
off: −0.17
sig: 0.009

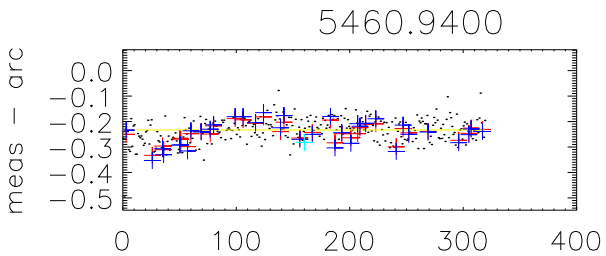

shift(pix)=−0.447
err(pix)= 0.032
oldshift(pix)=−0.538
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

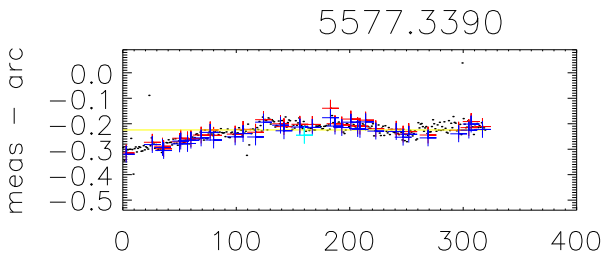

shift(pix)=−0.441
err(pix)= 0.011
oldshift(pix)=−0.454
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

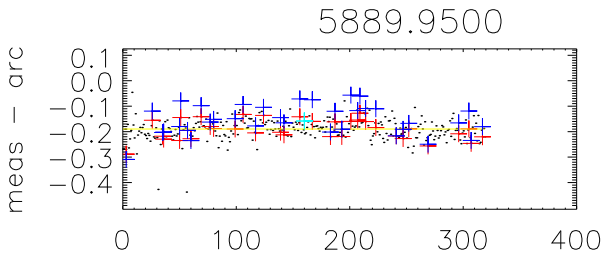

shift(pix)=−0.282
err(pix)= 0.009
oldshift(pix)=−0.246
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

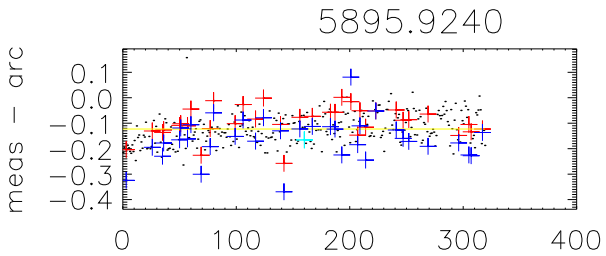

4046.5600
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

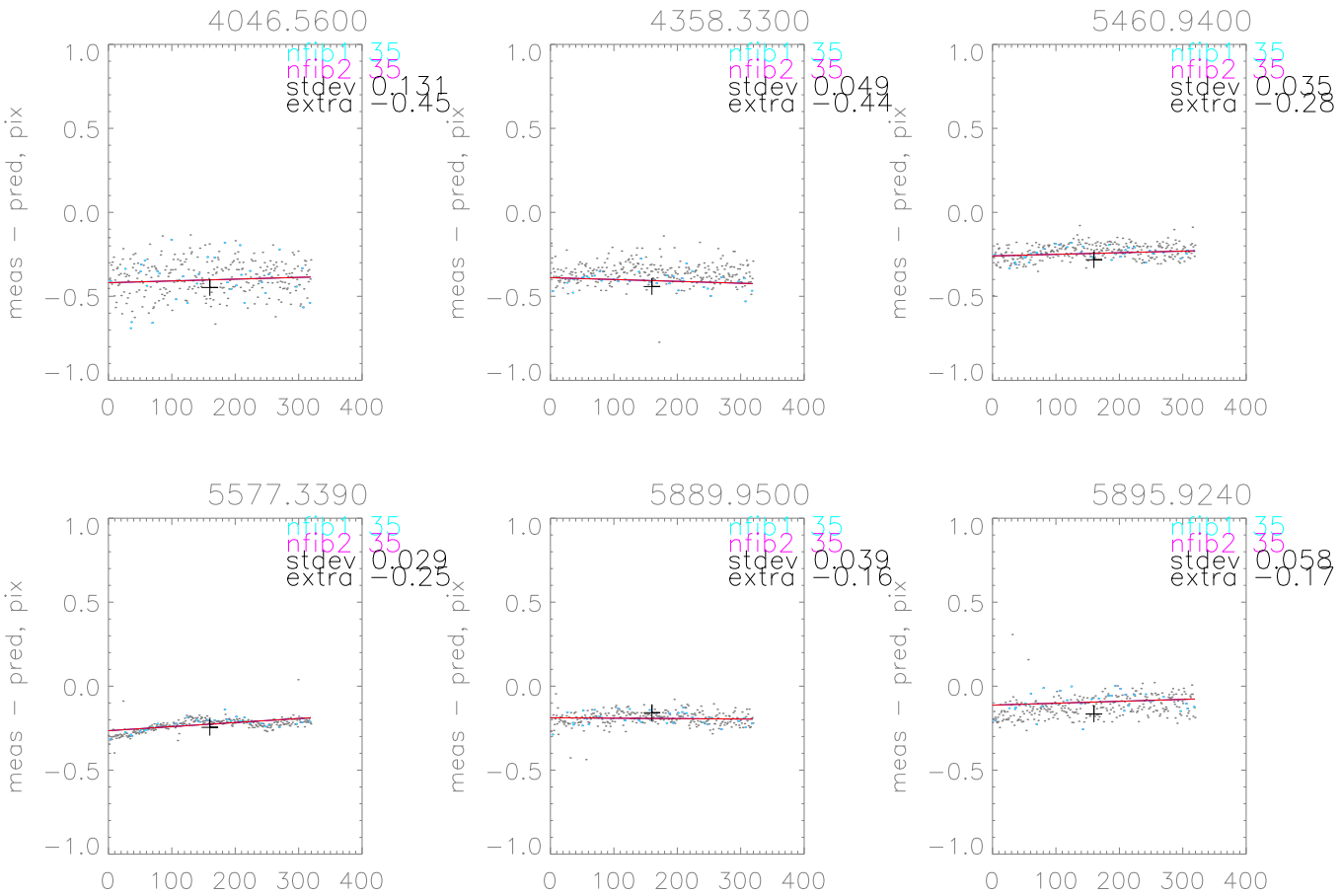

4358.3300
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

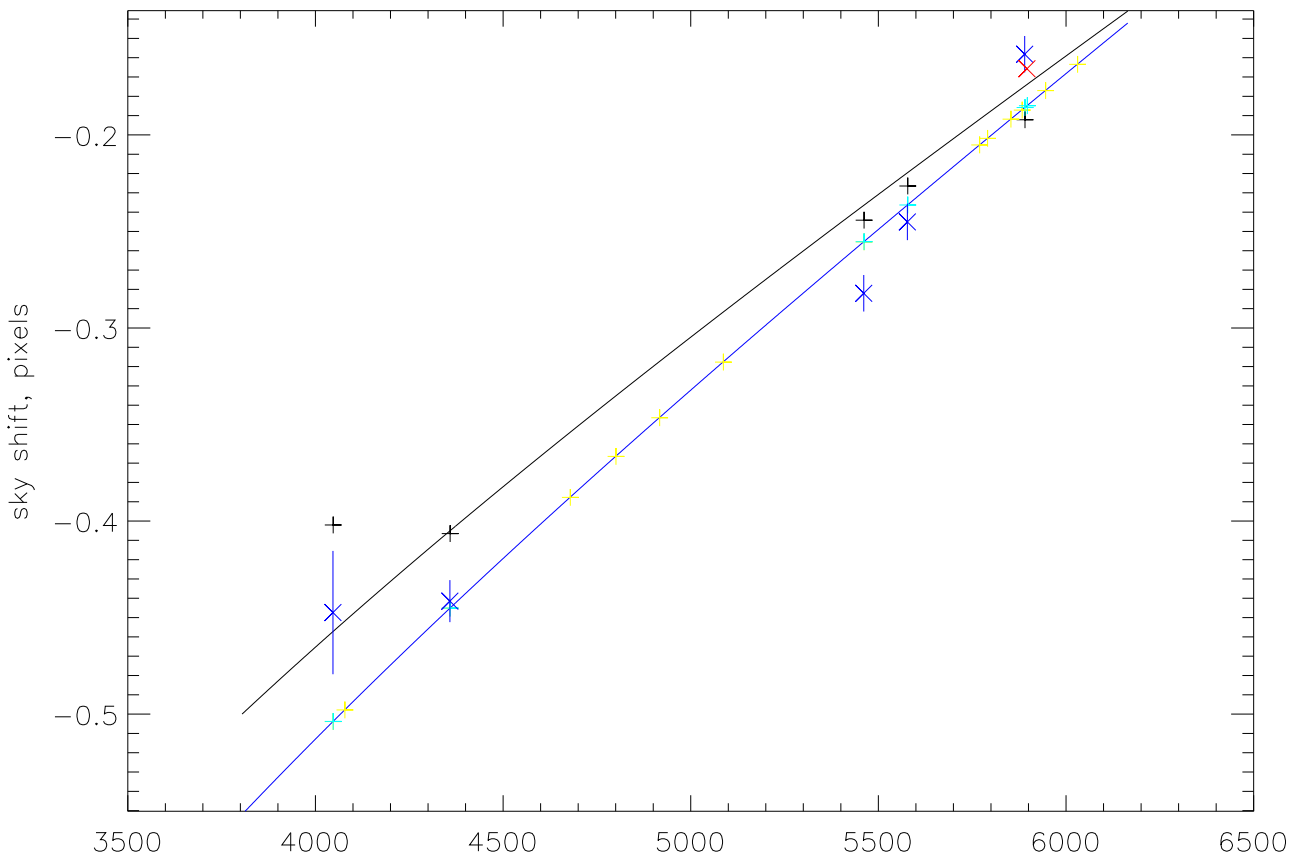

5460.9400
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400


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

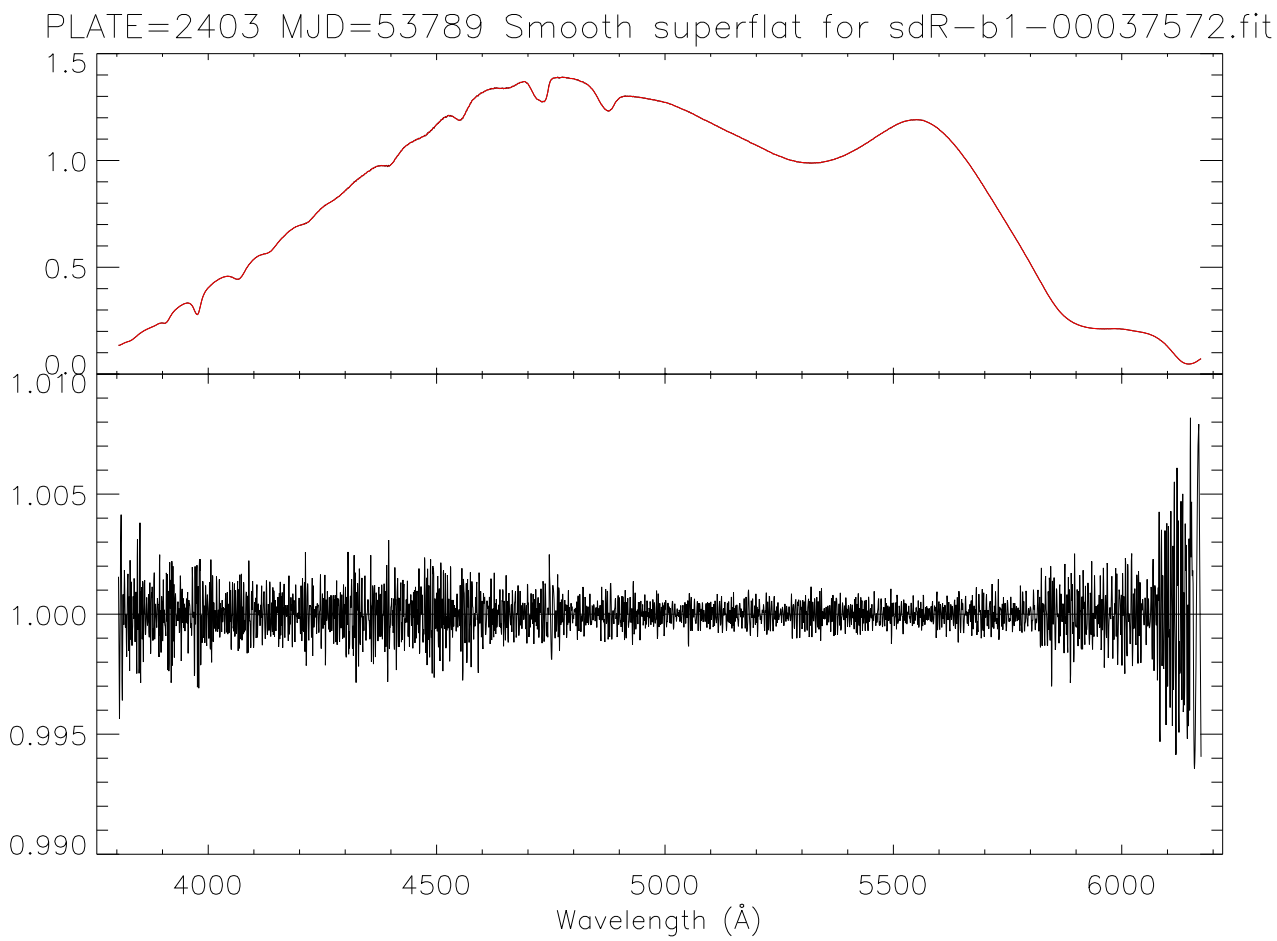

5889.9500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

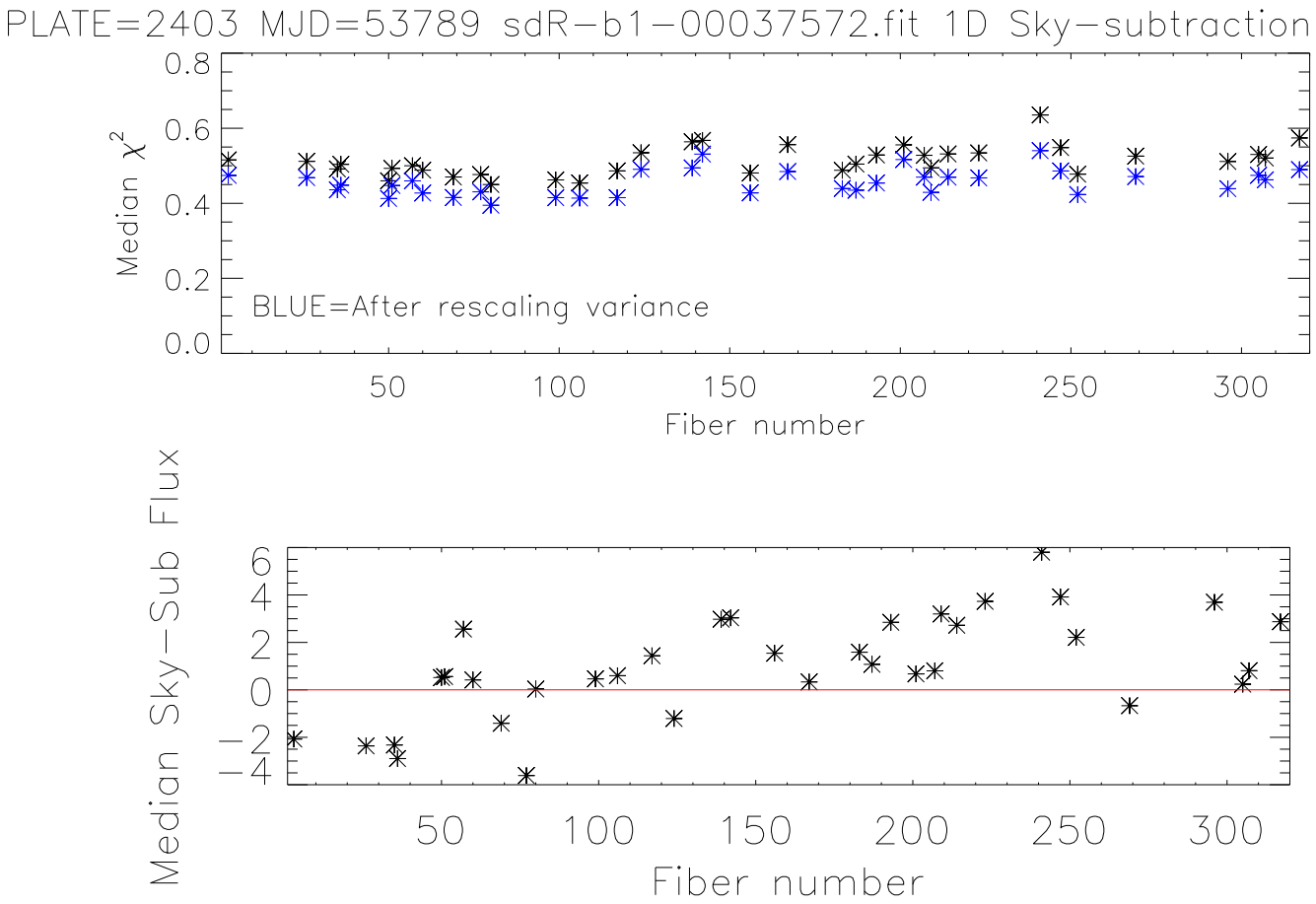

5895.9240
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

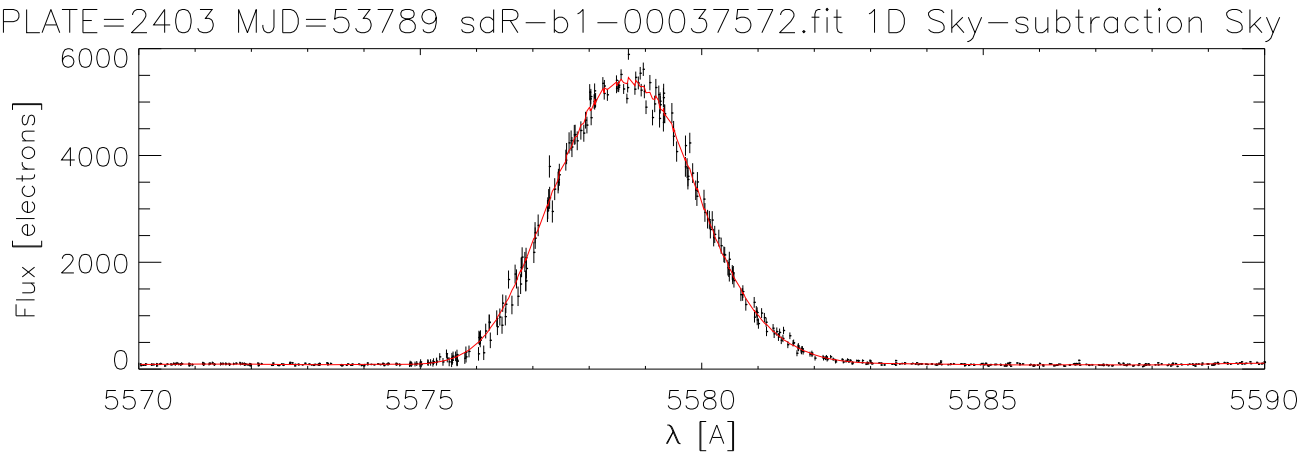

4046.5600
nfib1 35
nfib2 35
stdev 0.131
extra −0.45
4358.3300
nfib1 35
nfib2 35
stdev 0.049
extra −0.44
5460.9400
nfib1 35
nfib2 35
stdev 0.035
extra −0.28
5577.3390
nfib1 35
nfib2 35
stdev 0.029
extra −0.25
5889.9500
nfib1 35
nfib2 35
stdev 0.039
extra −0.16
5895.9240
nfib1 35
nfib2 35
stdev 0.058
extra −0.17
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

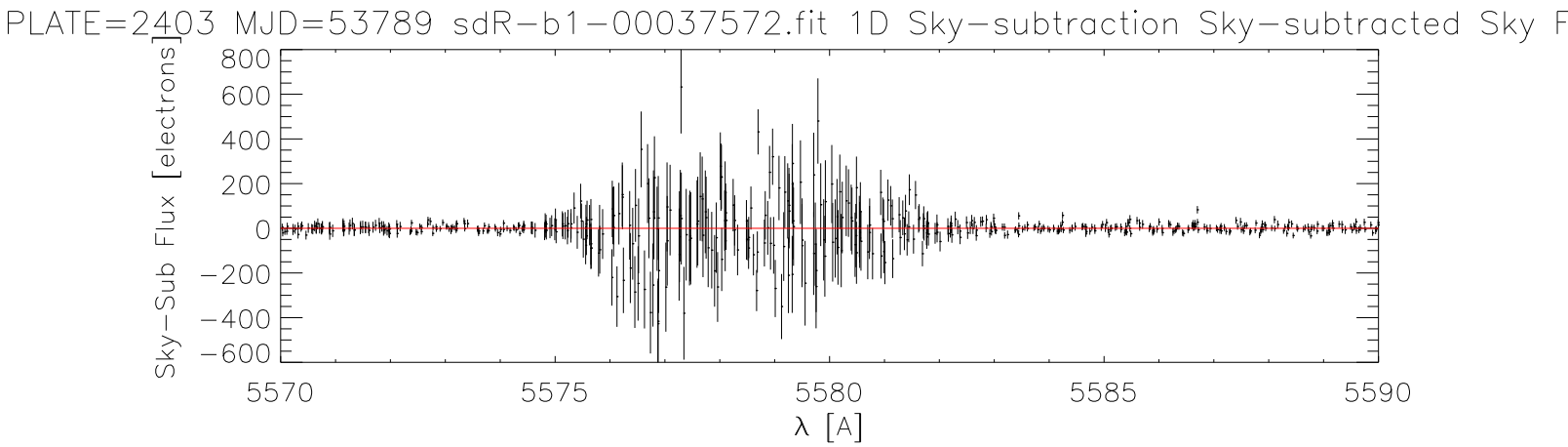

sky shift, pixels
−0.2
−0.3
−0.4
−0.5
3500
4000
4500
5000
5500
6000
6500

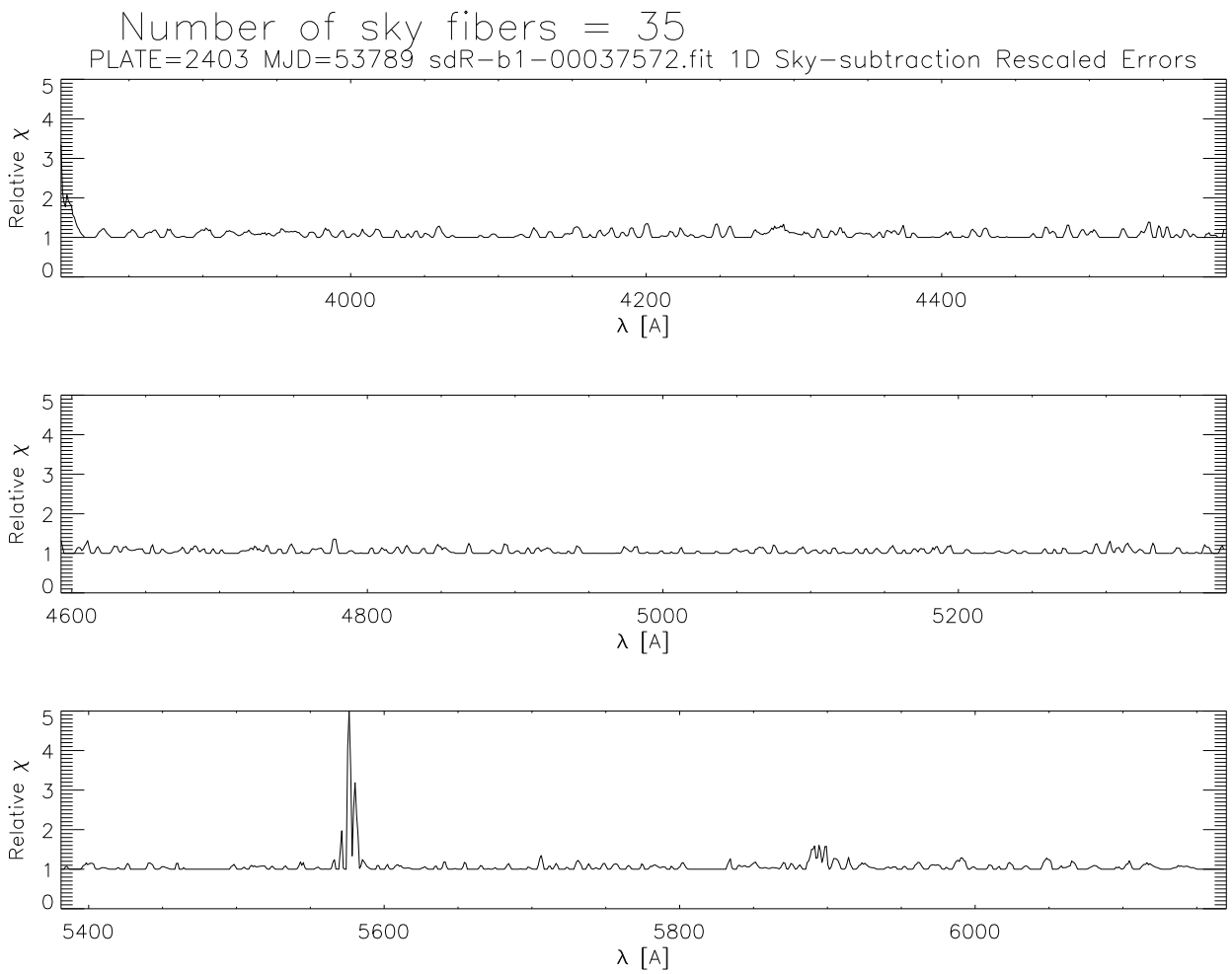
es= 0.0000

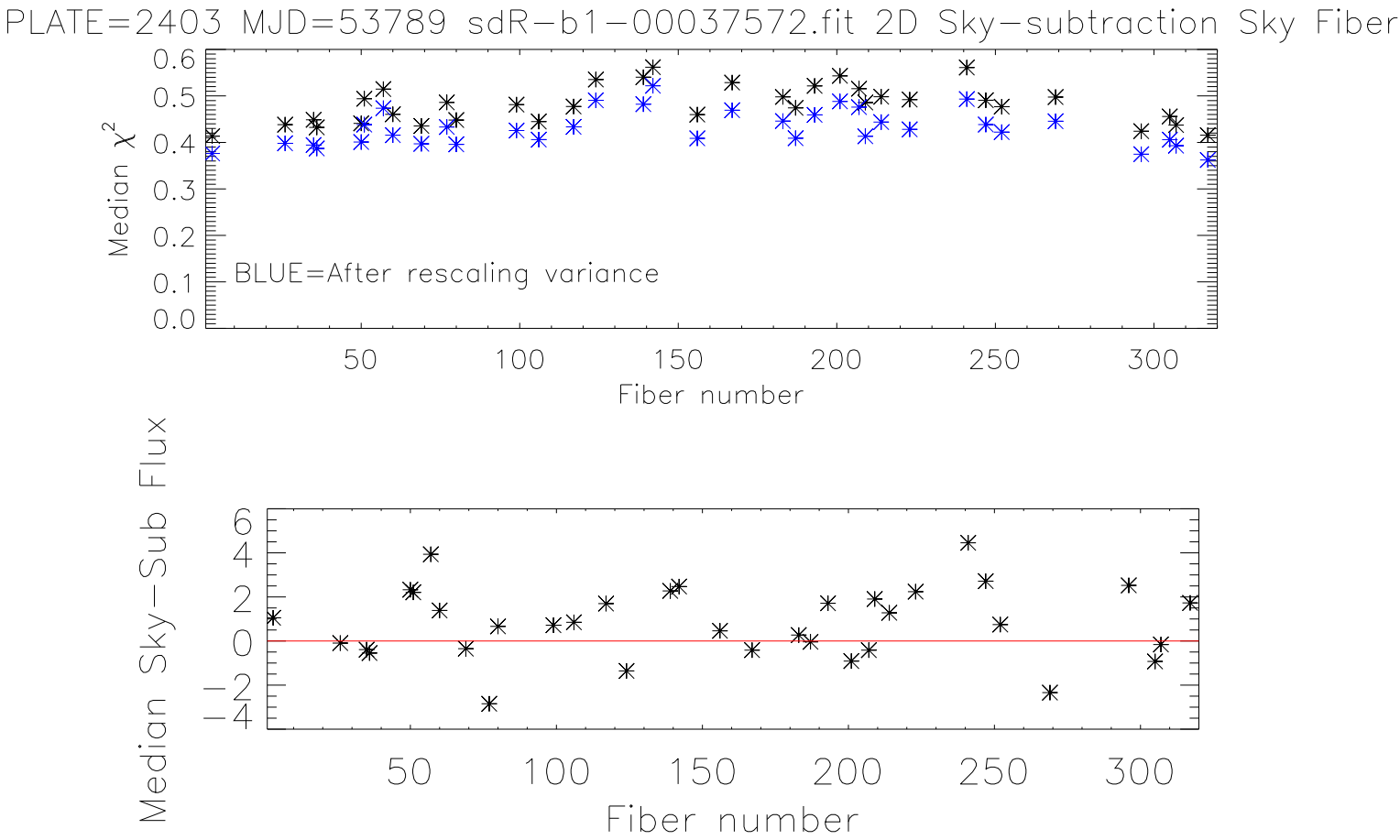

PLATE=2403 MJD=53789 Smooth superflat for sdR-b1-00037572.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

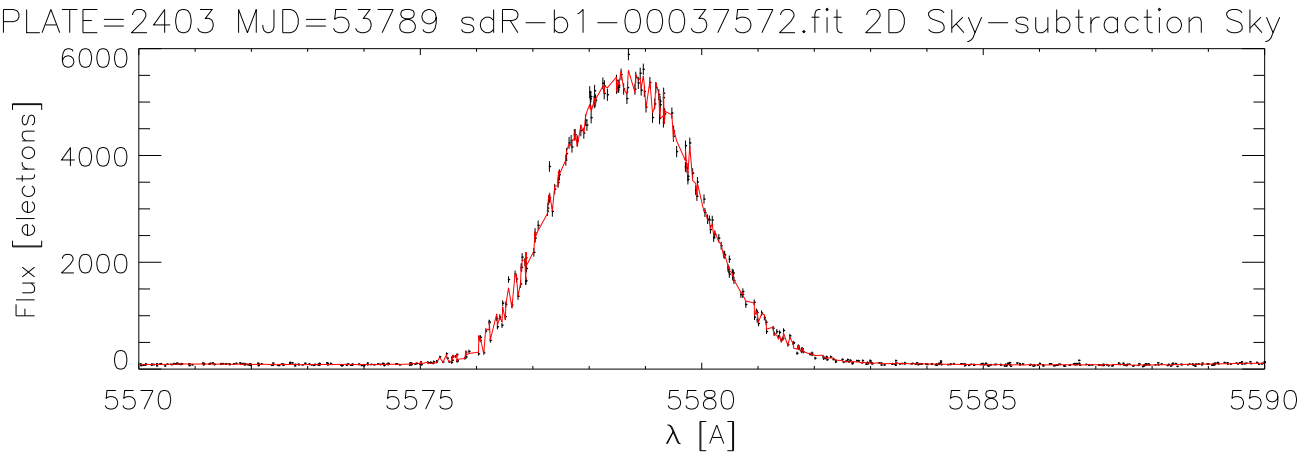

PLATE=2403 MJD=53789 sdR-b1-00037572.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

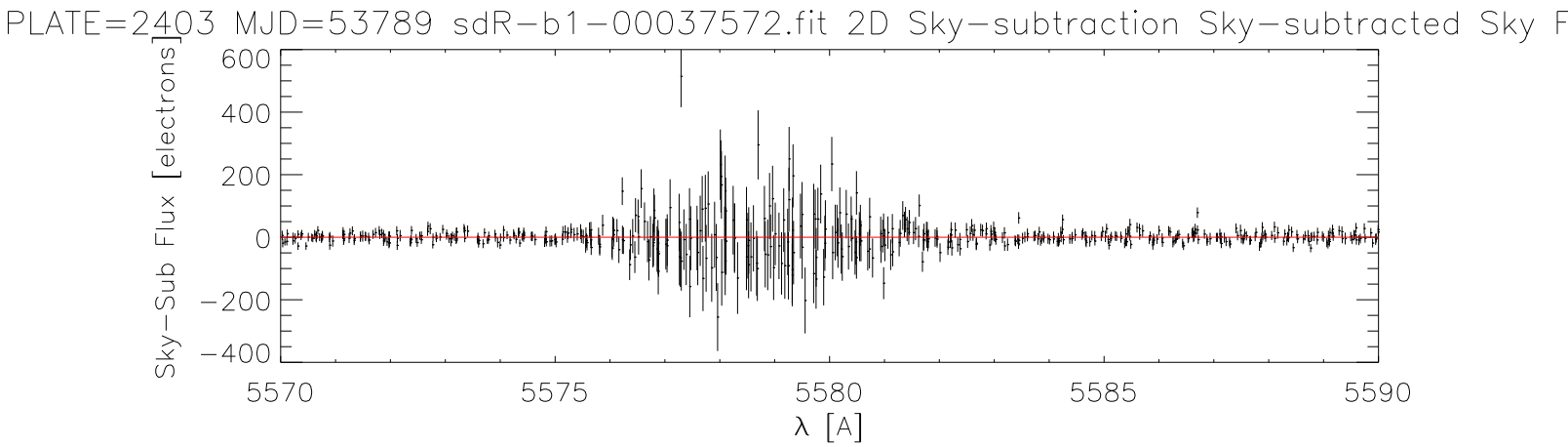

PLATE=2403 MJD=53789 sdR-b1-00037572.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

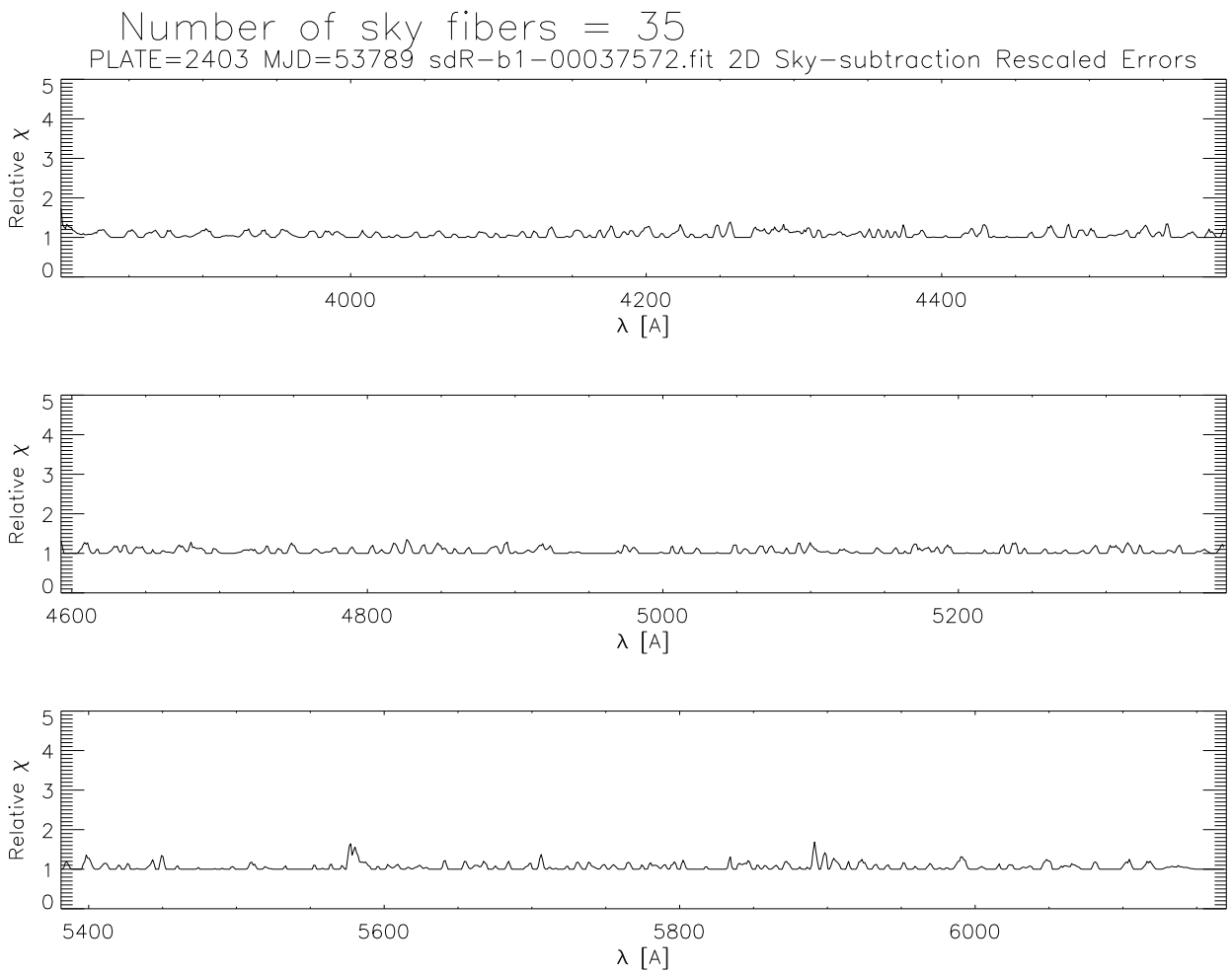

PLATE=2403 MJD=53789 sdR-b1-00037572.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

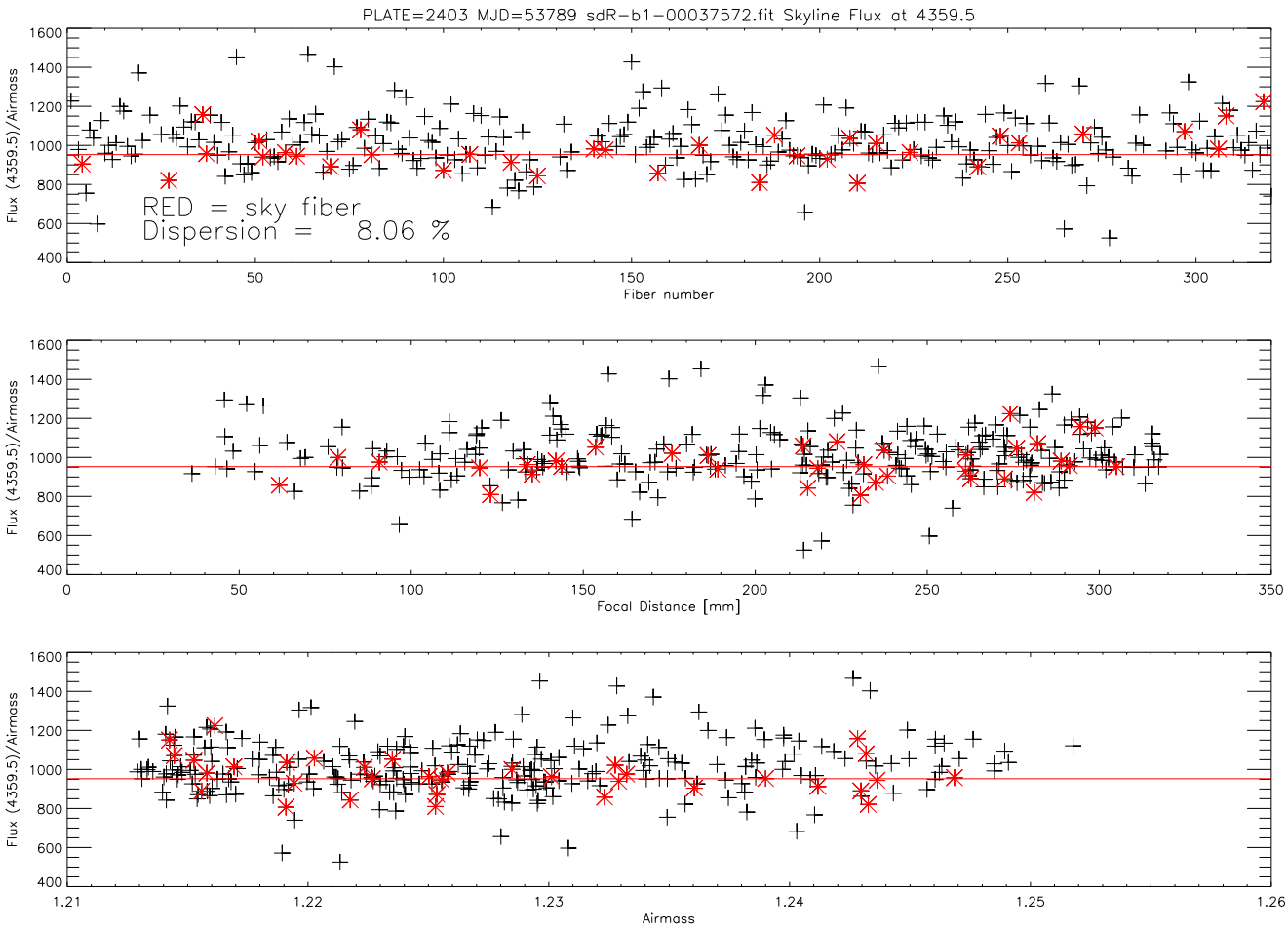

Number of sky fibers = 35
PLATE=2403 MJD=53789 sdR-b1-00037572.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

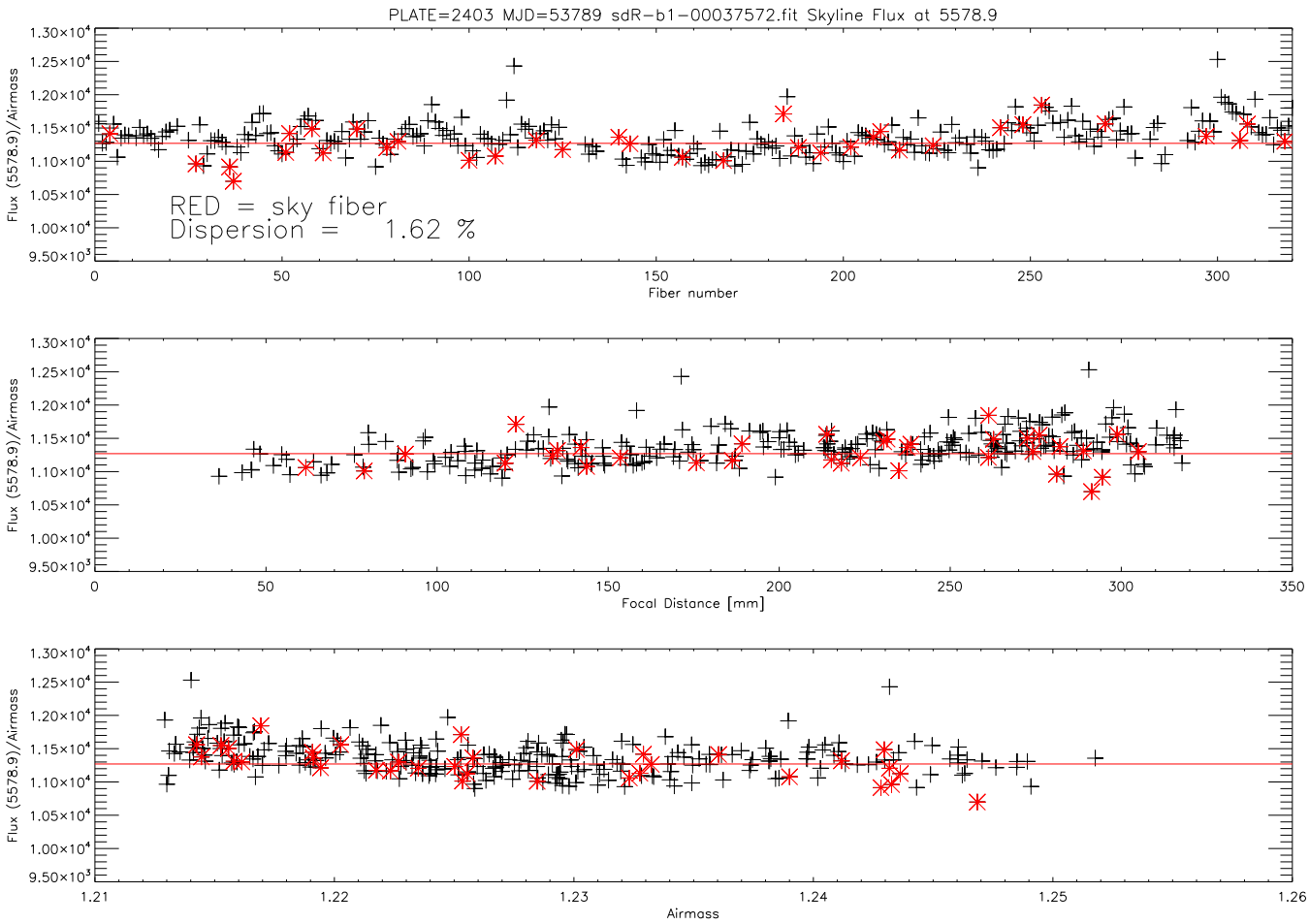

PLATE=2403 MJD=53789 sdR-b1-00037572.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

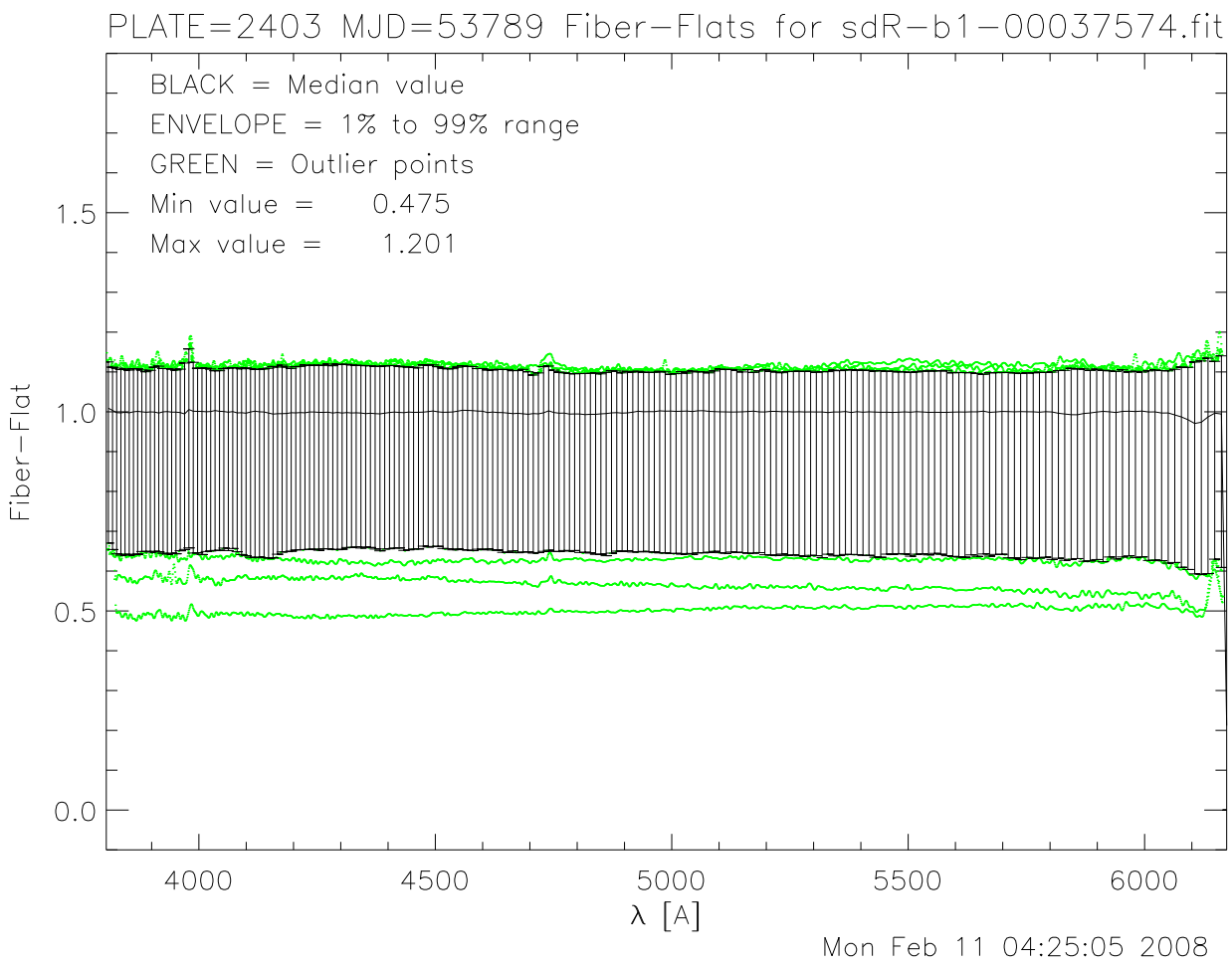

PLATE=2403 MJD=53789 sdR-b1-00037572.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]


PLATE=2403 MJD=53789 sdR-b1-00037572.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 = 35
PLATE=2403 MJD=53789 sdR-b1-00037572.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=2403 MJD=53789 sdR-b1-00037572.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 8.06 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass


PLATE=2403 MJD=53789 sdR-b1-00037572.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.62 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass


PLATE=2403 MJD=53789 Fiber−Flats for sdR−b1−00037574.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.475
Max value = 1.201
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
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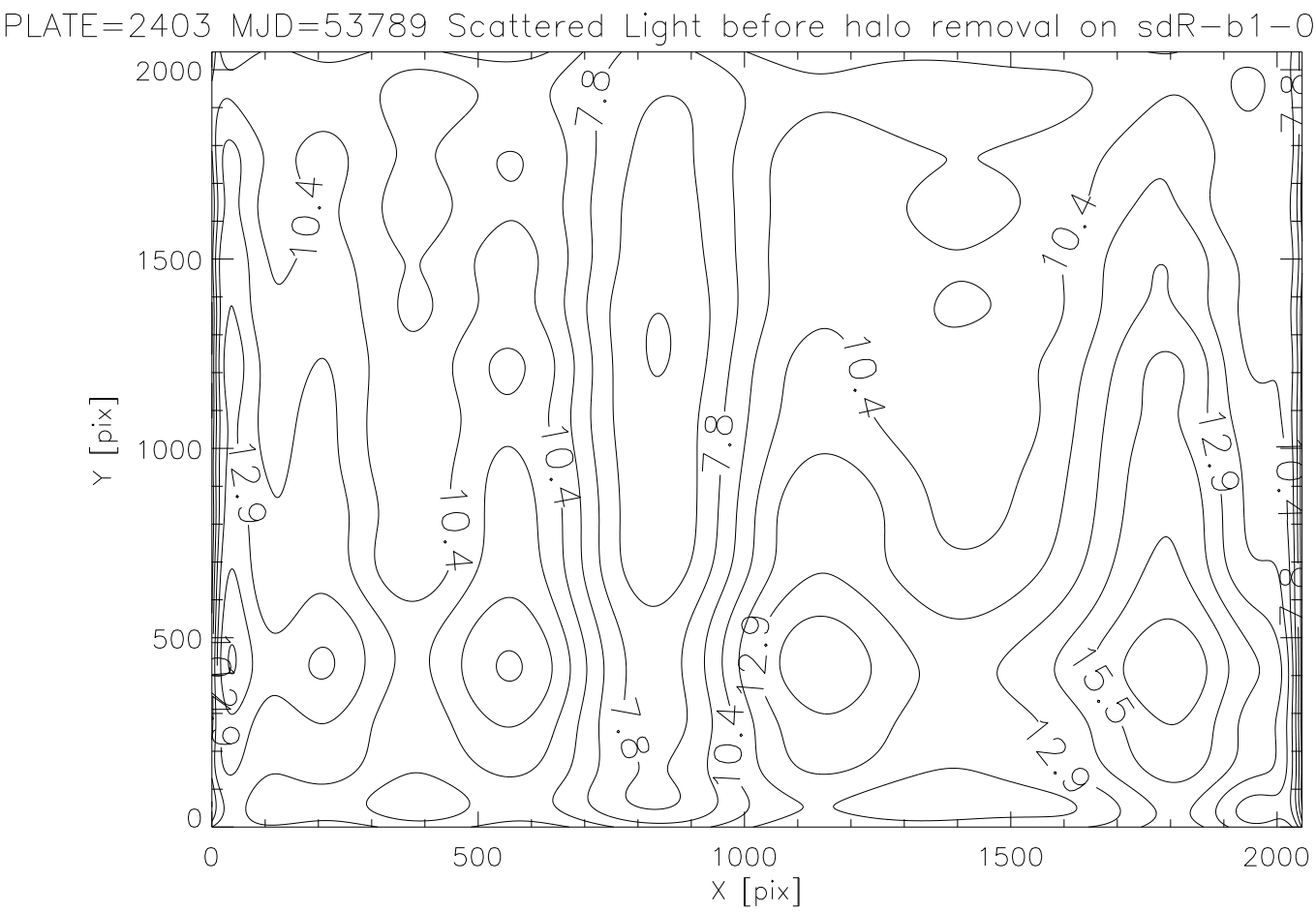
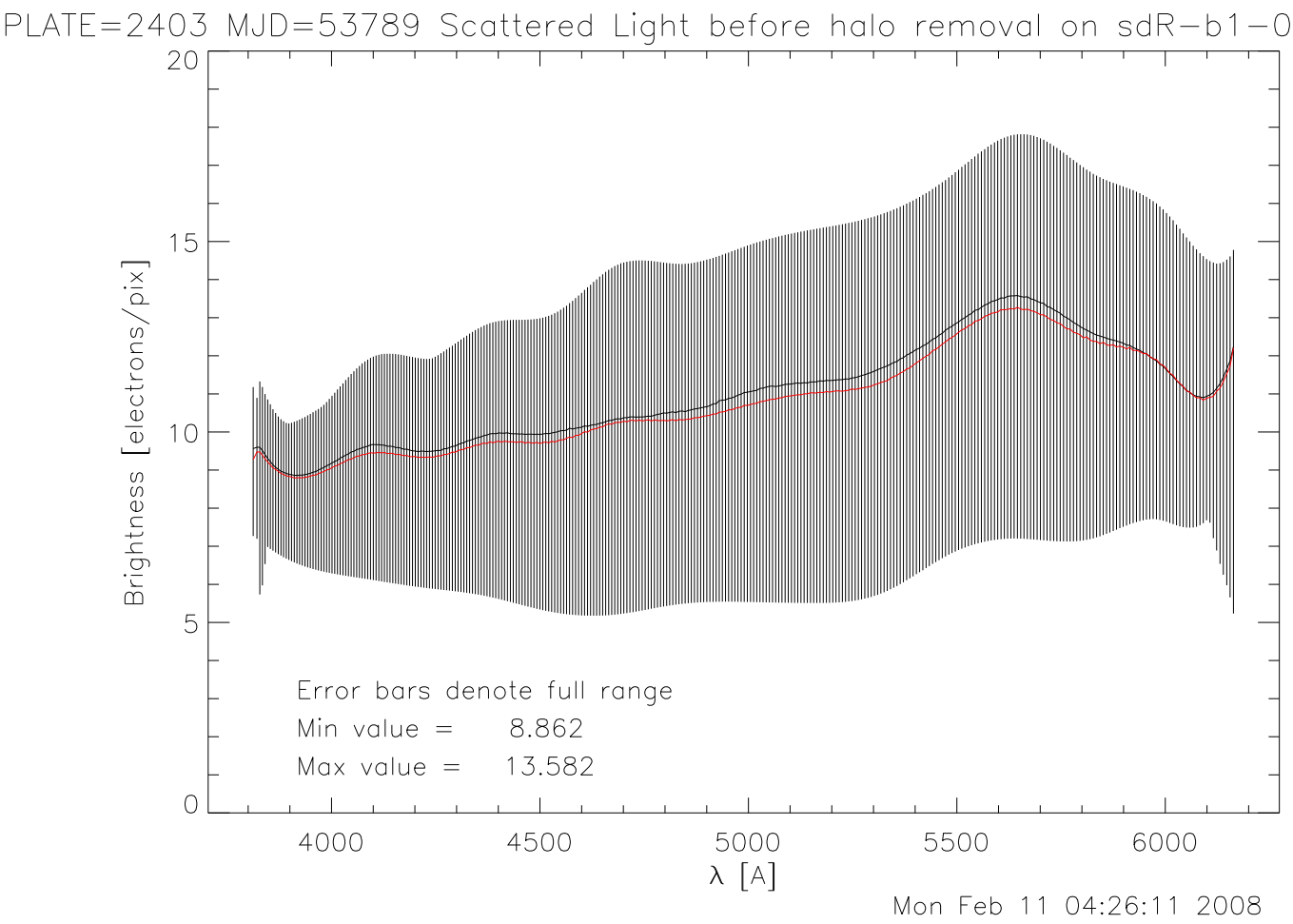
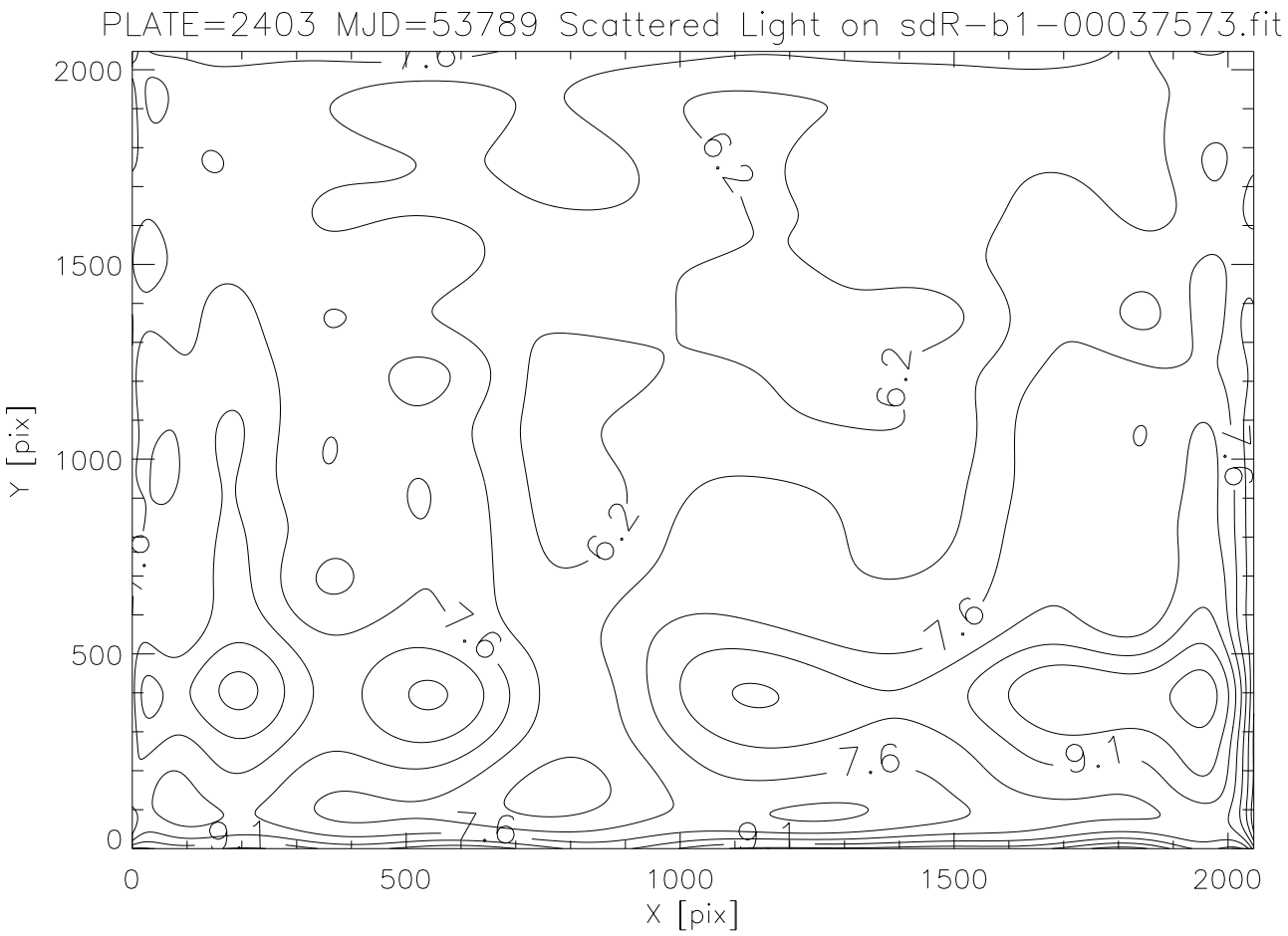
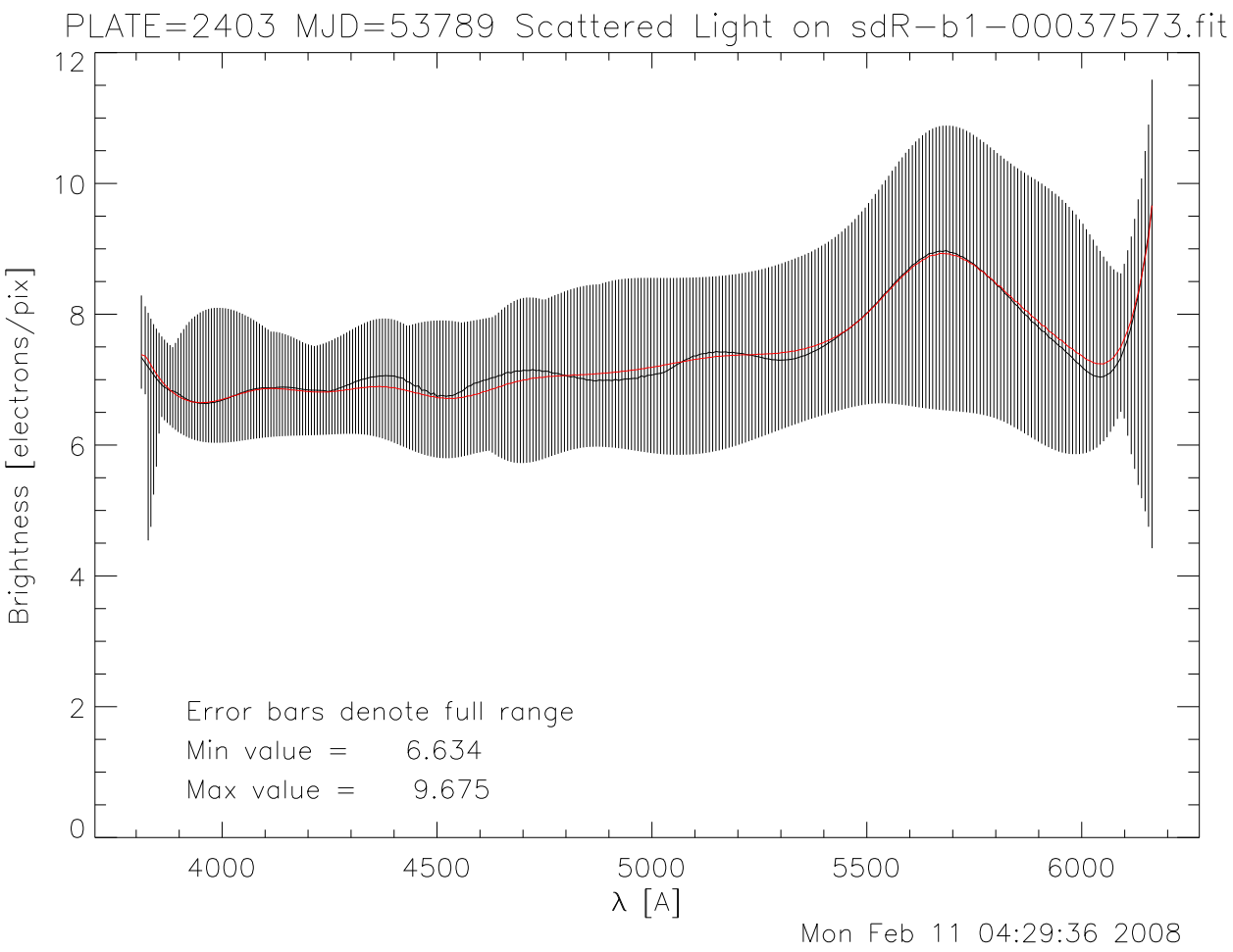
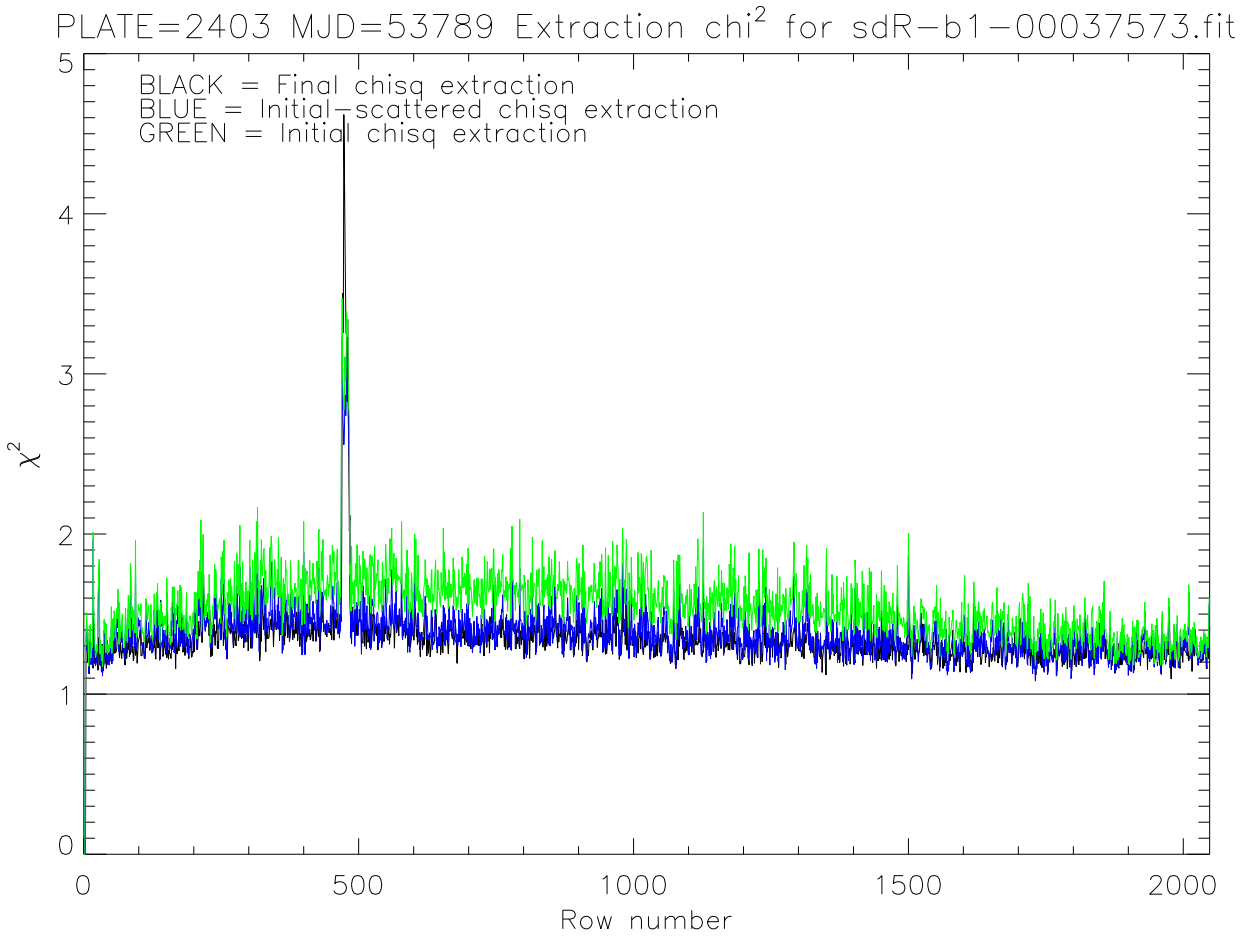
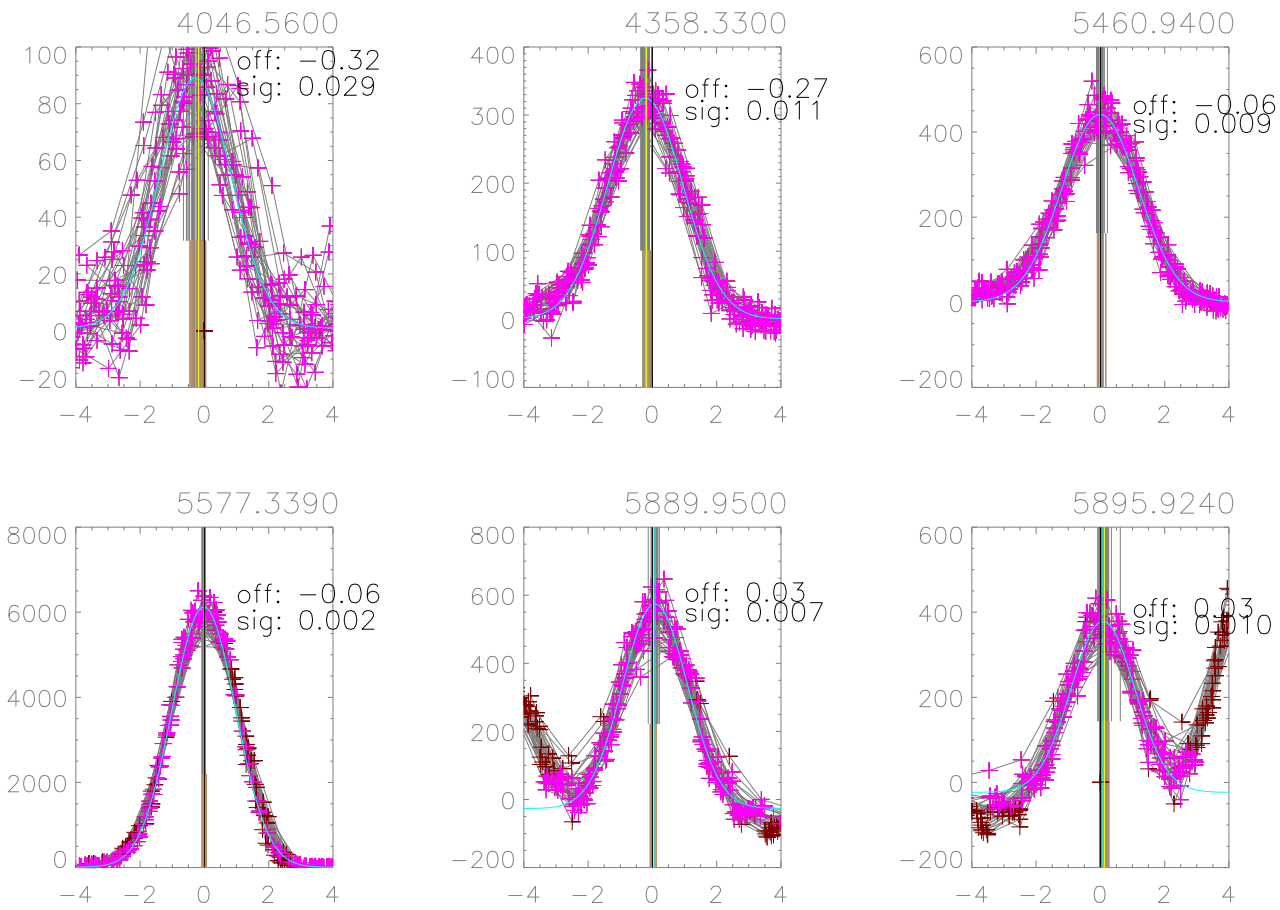

PLATE=2403 MJD=53789 Scattered Light before halo removal on sdR−b1−00037573.f
Y [pix]
X [pix]
0
500
1000
1500
2000
7.8
10.4
12.9
15.5

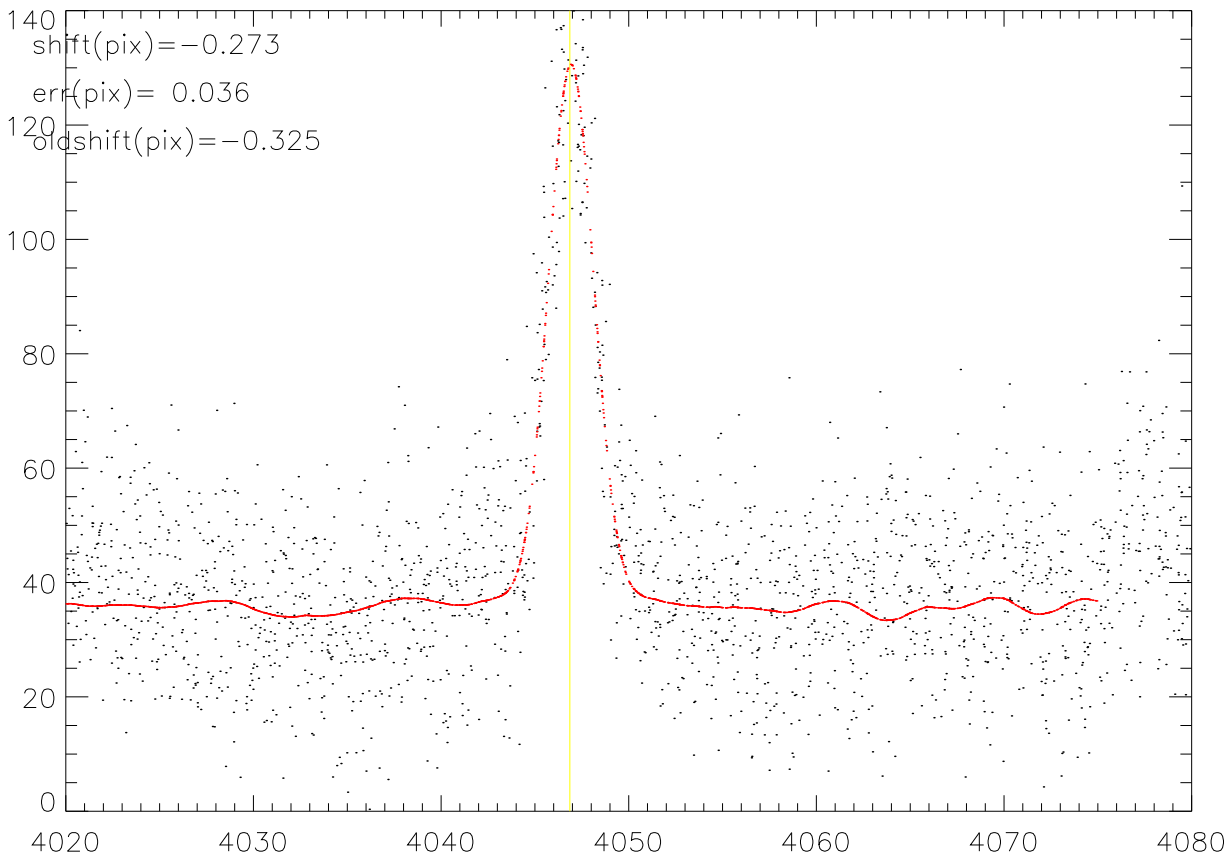

PLATE=2403 MJD=53789 Scattered Light before halo removal on sdR−b1−00037573.f
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 8.862
Max value = 13.582
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 04:26:11 2008

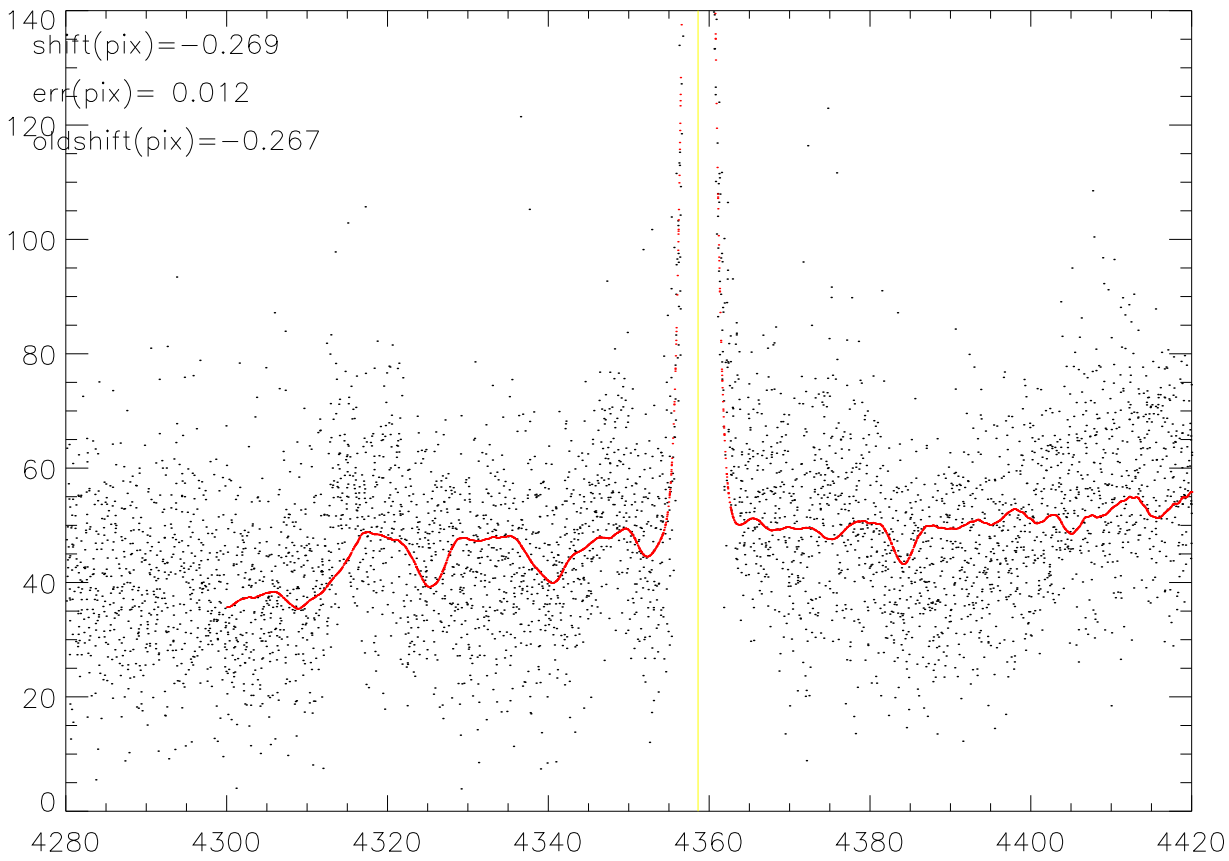

PLATE=2403 MJD=53789 Scattered Light on sdR-b1-00037573.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
7.6
6.2
9.1
0

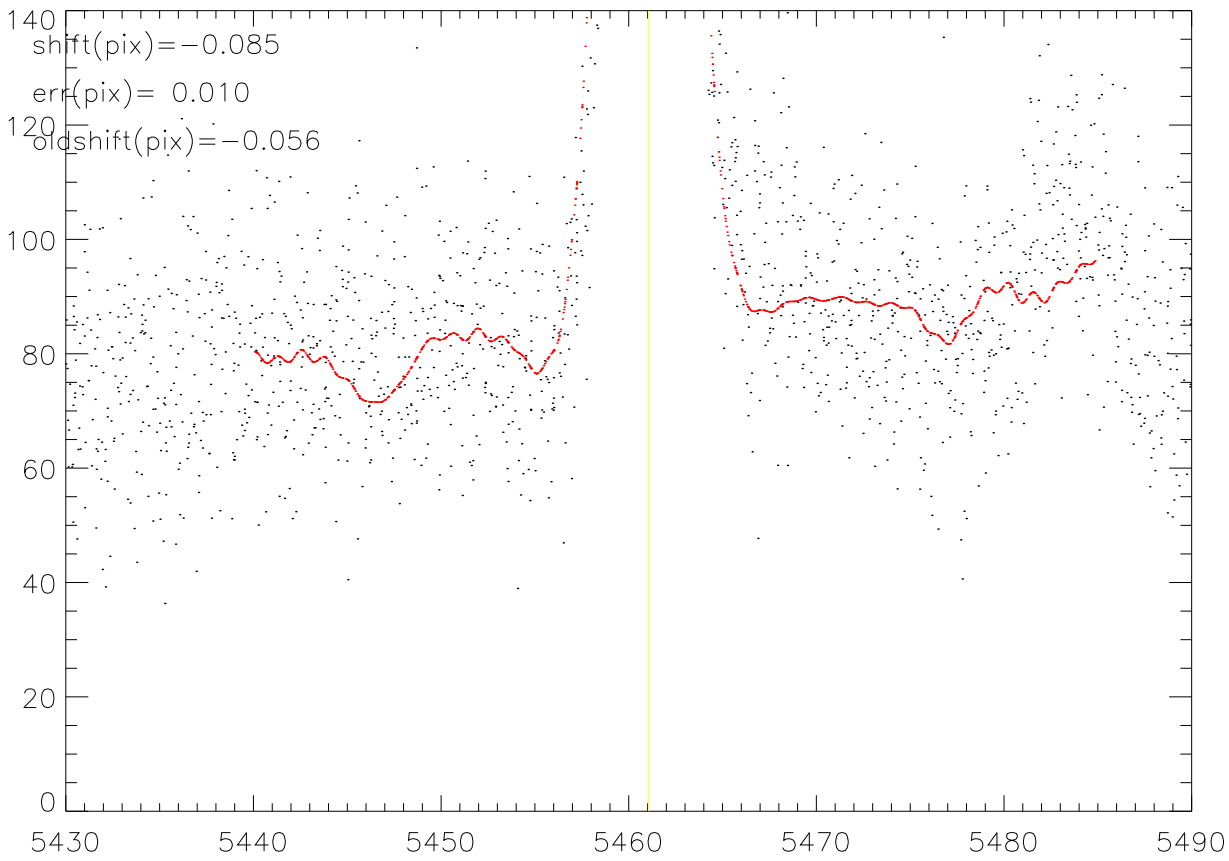

PLATE=2403 MJD=53789 Scattered Light on sdR-b1-00037573.fit
Brightness [electrons/pix]
12
10
8
6
4
2
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 6.634
Max value = 9.675
Mon Feb 11 04:29:36 2008

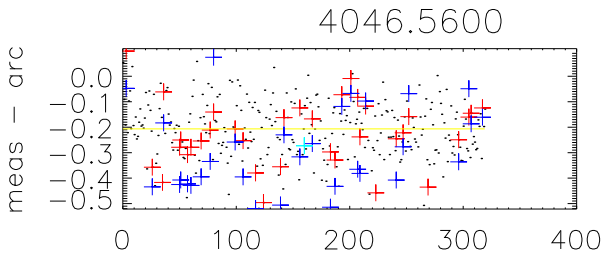

PLATE=2403 MJD=53789 Extraction chi^2 for sdR-b1-00037573.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

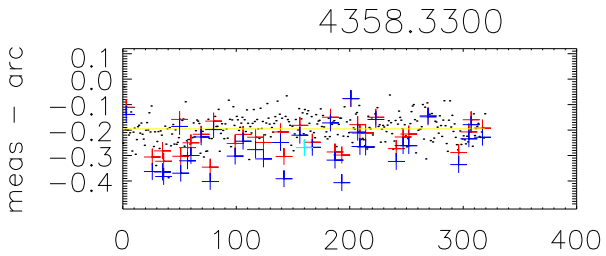

4046.5600
off: −0.32
sig: 0.029
4358.3300
off: −0.27
sig: 0.011
5460.9400
off: −0.06
sig: 0.009
5577.3390
off: −0.06
sig: 0.002
5889.9500
off: 0.03
sig: 0.007
5895.9240
off: 0.03
sig: 0.010

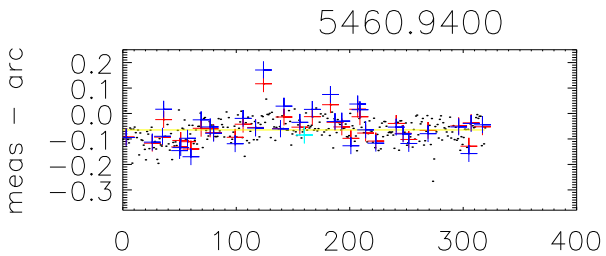

shift(pix)=−0.273
err(pix)= 0.036
oldshift(pix)=−0.325
140
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

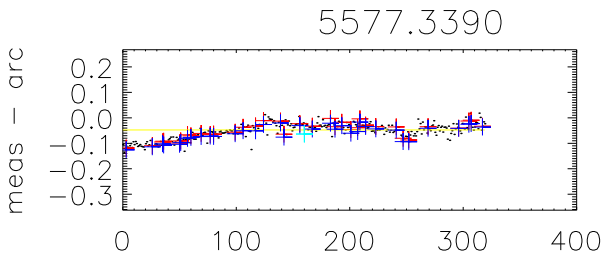

shift(pix)=−0.269
err(pix)= 0.012
oldshift(pix)=−0.267
140
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

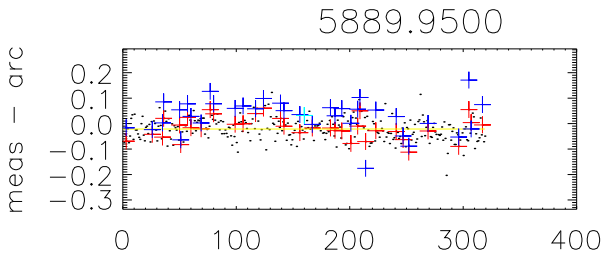

shift(pix)=−0.085
err(pix)= 0.010
oldshift(pix)=−0.056
140
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

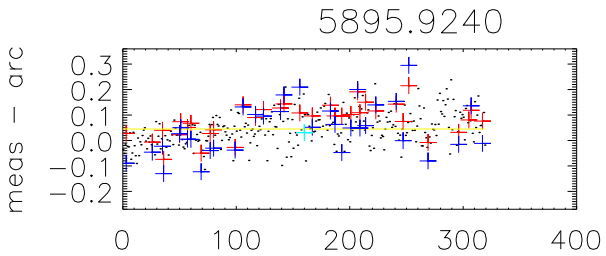

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

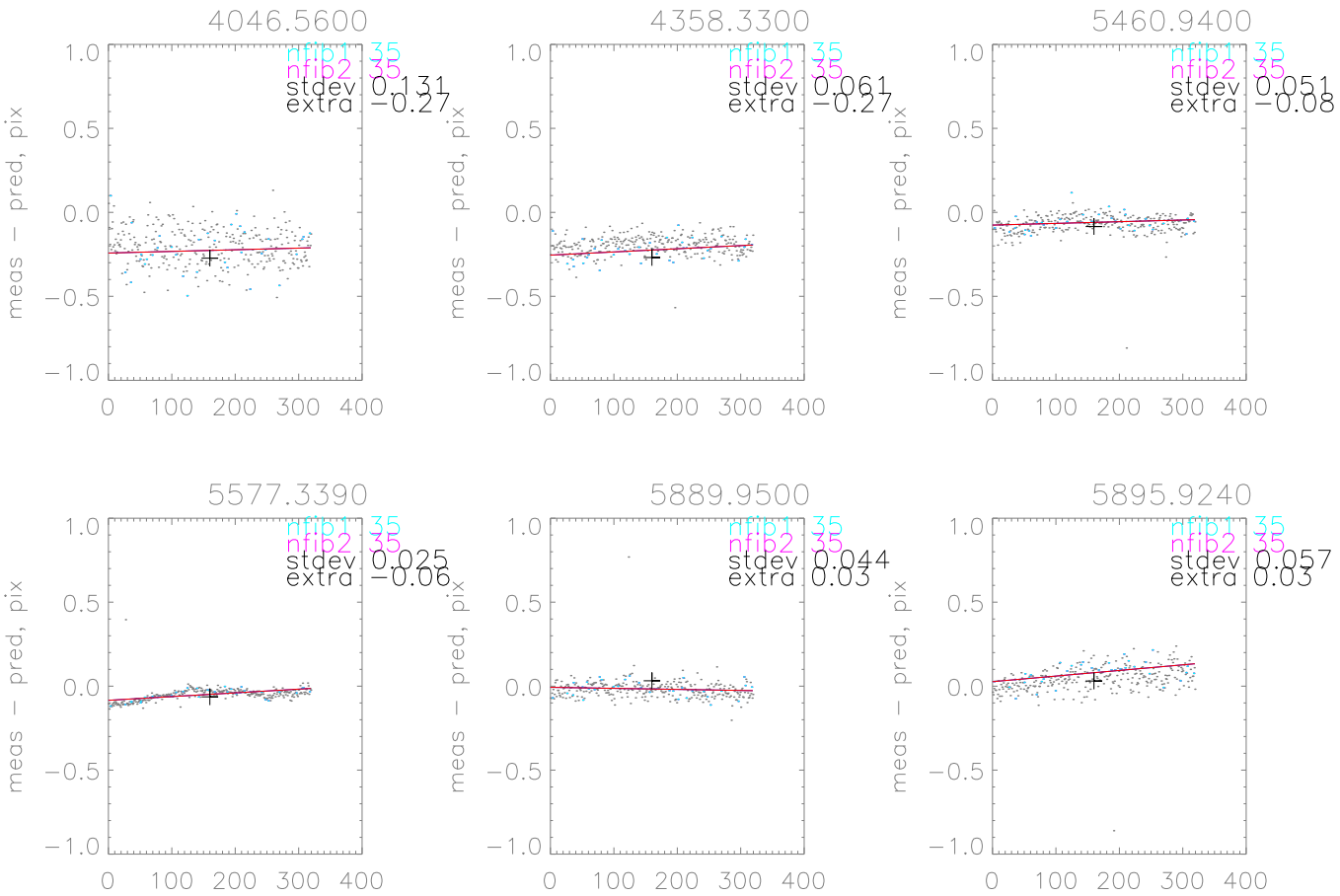

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

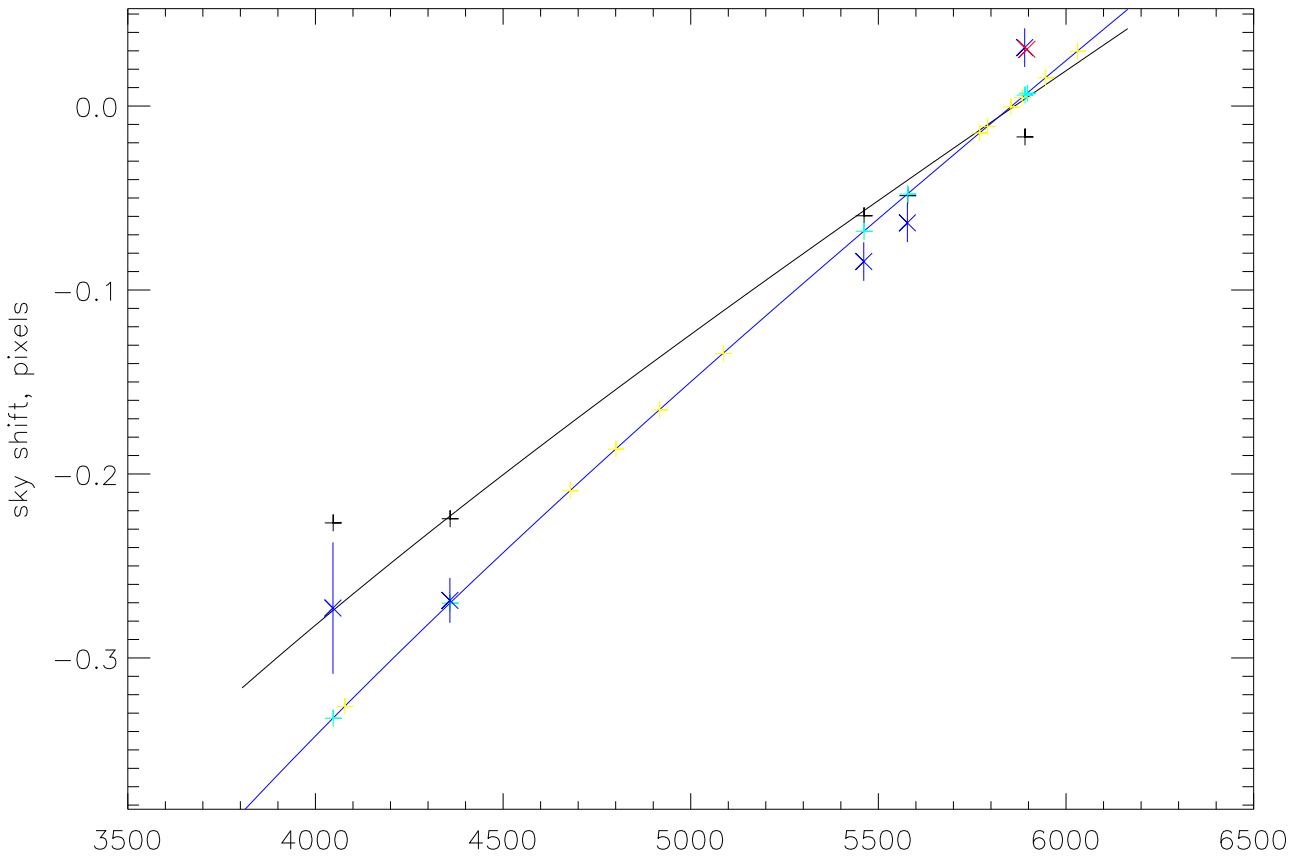

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

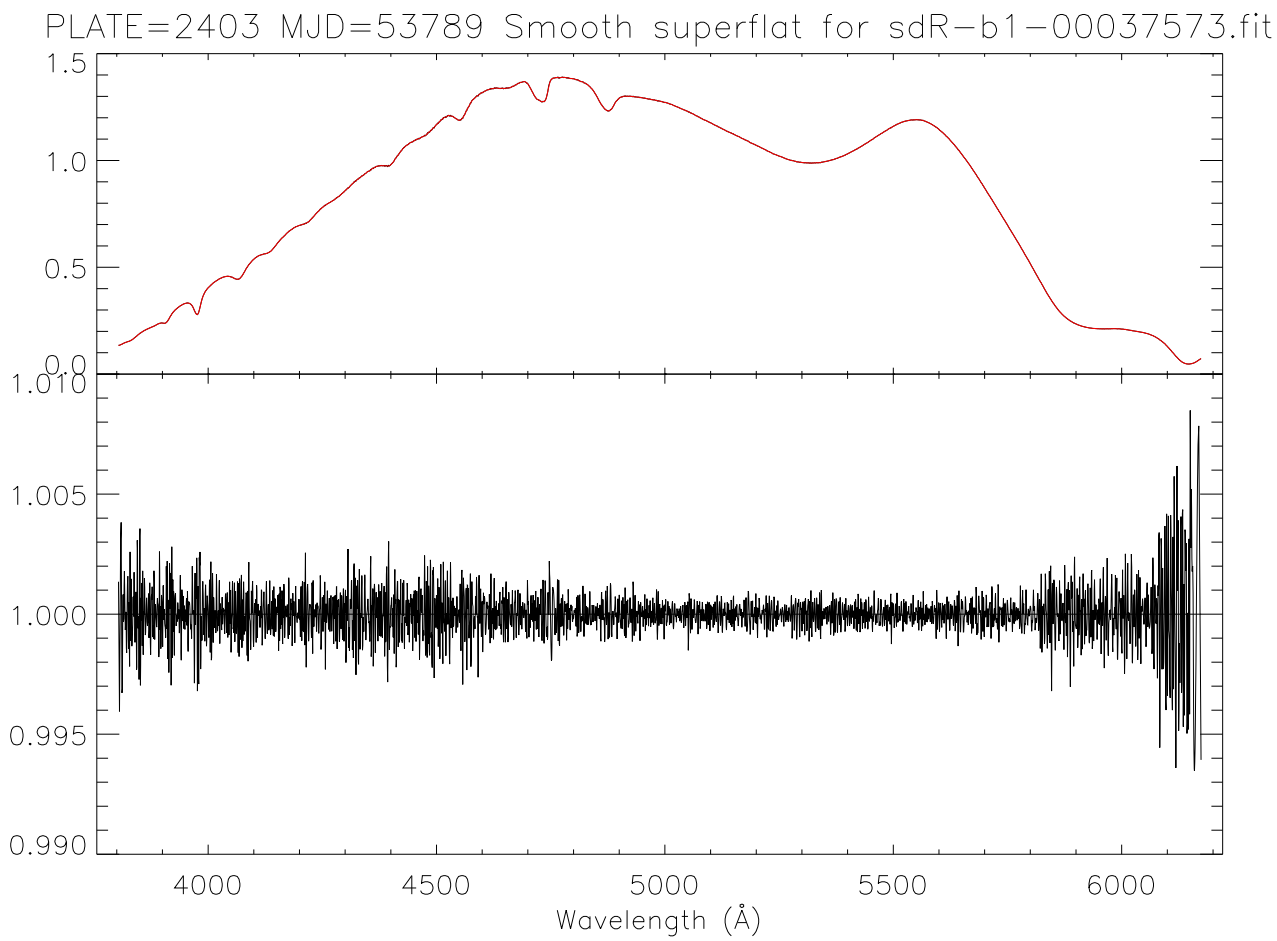

5889.9500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

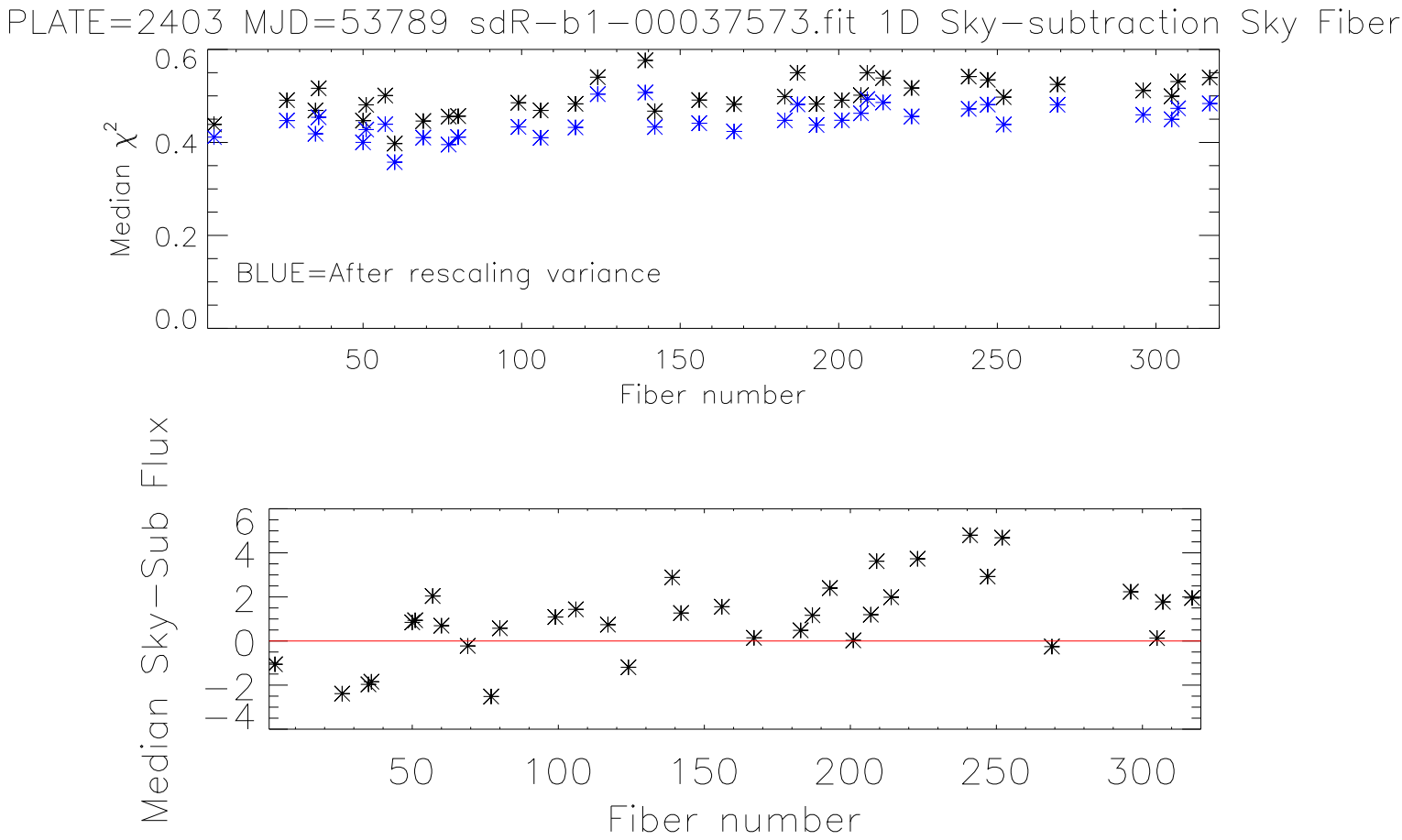

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

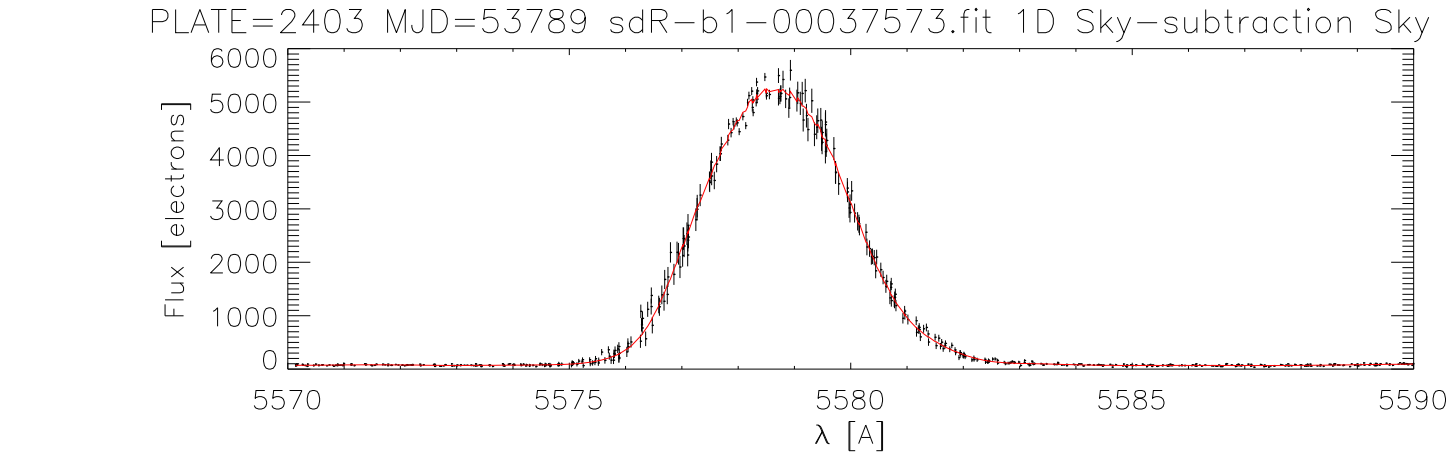

4046.5600
nfib1 35
nfib2 35
stdev 0.131
extra −0.27
4358.3300
nfib1 35
nfib2 35
stdev 0.061
extra −0.27
5460.9400
nfib1 35
nfib2 35
stdev 0.051
extra −0.08
5577.3390
nfib1 35
nfib2 35
stdev 0.025
extra −0.06
5889.9500
nfib1 35
nfib2 35
stdev 0.044
extra 0.03
5895.9240
nfib1 35
nfib2 35
stdev 0.057
extra 0.03
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

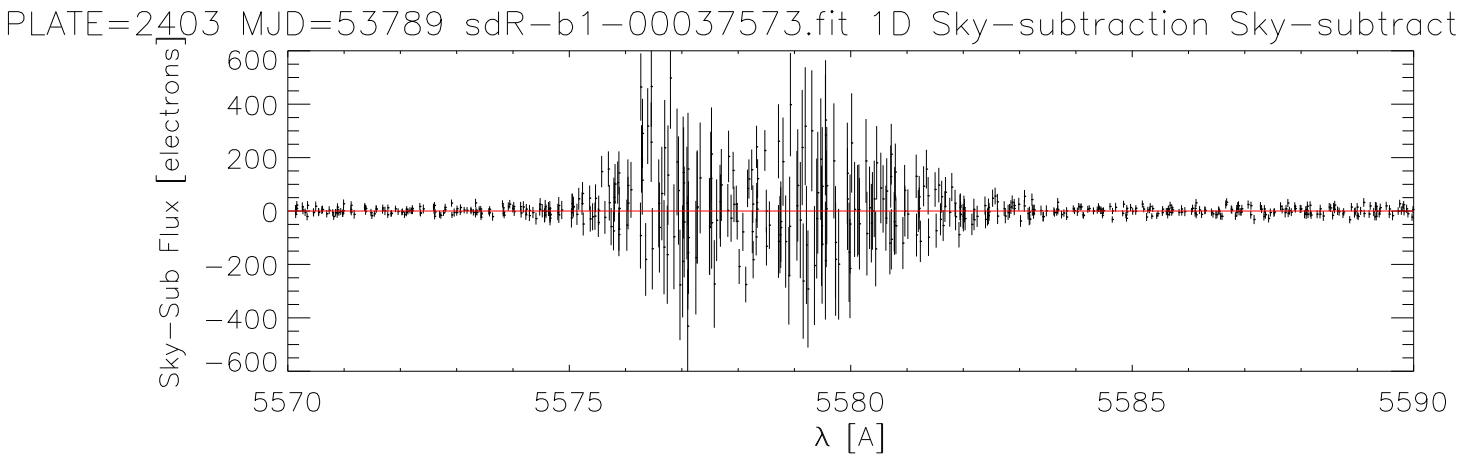

0.0
−0.1
−0.2
−0.3
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

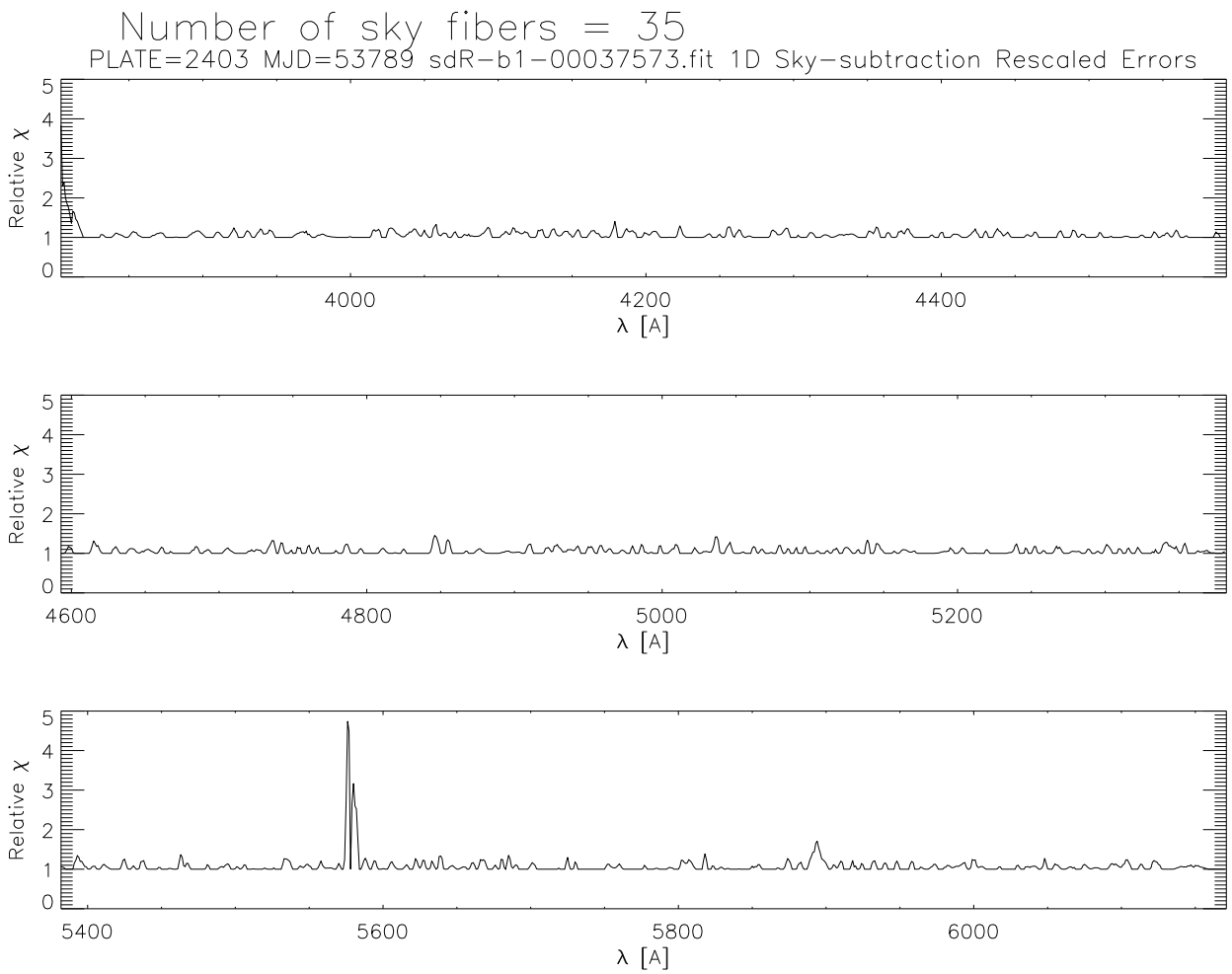
es= 0.0000

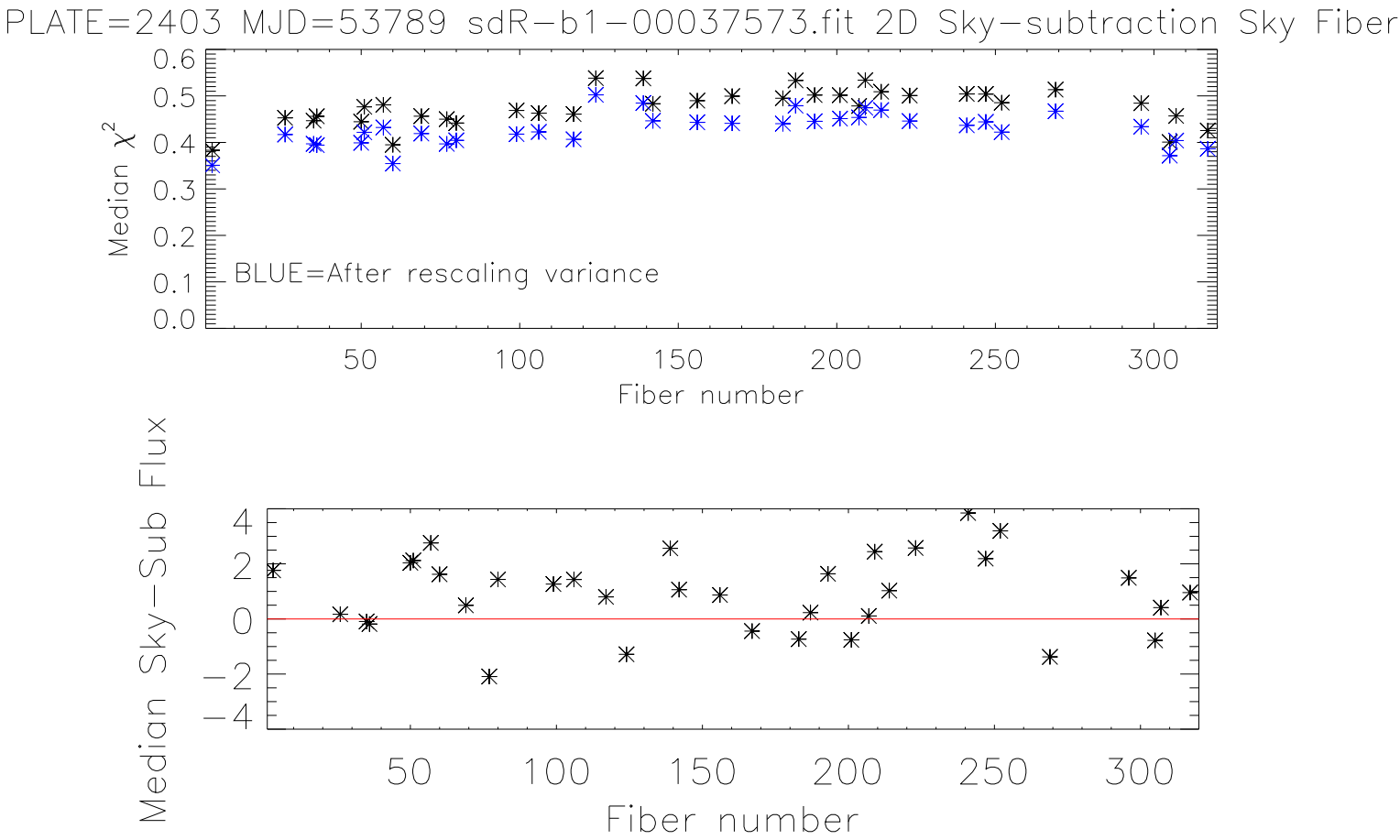

PLATE=2403 MJD=53789 Smooth superflat for sdR-b1-00037573.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

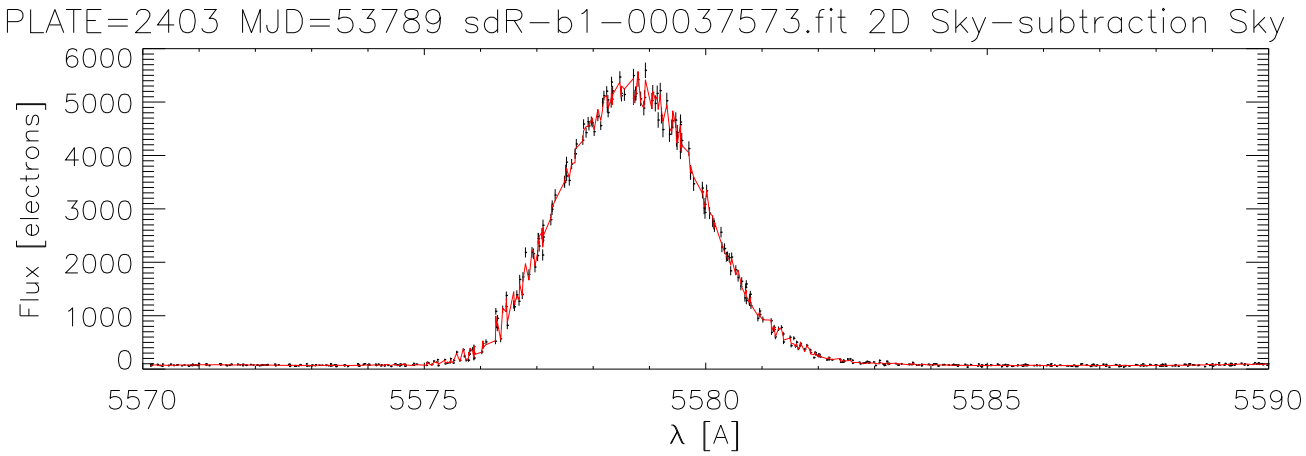

PLATE=2403 MJD=53789 sdR-b1-00037573.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

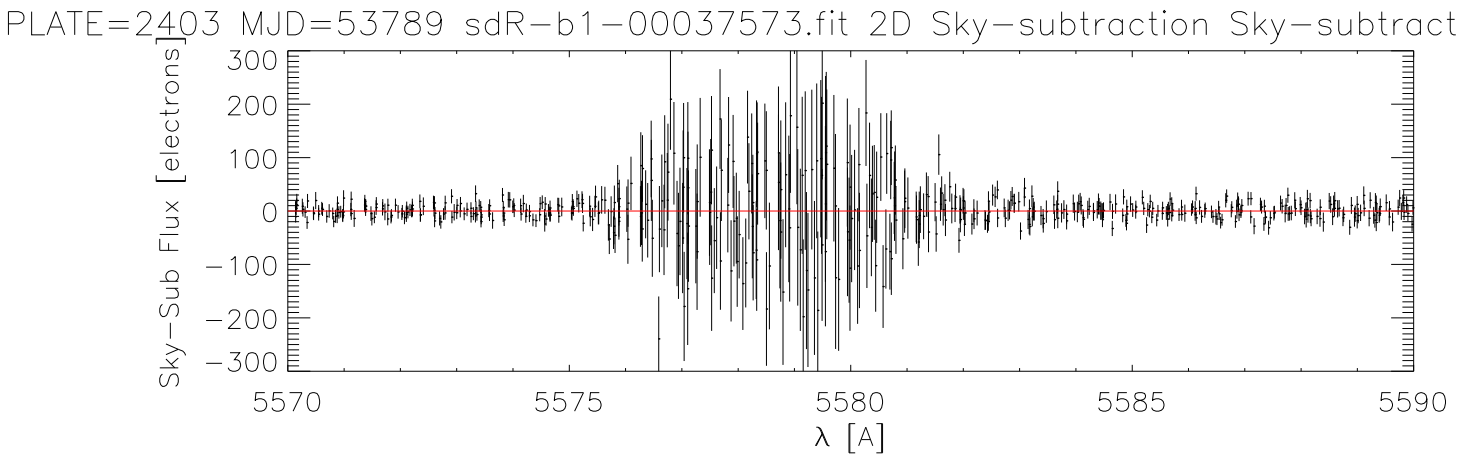

PLATE=2403 MJD=53789 sdR-b1-00037573.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

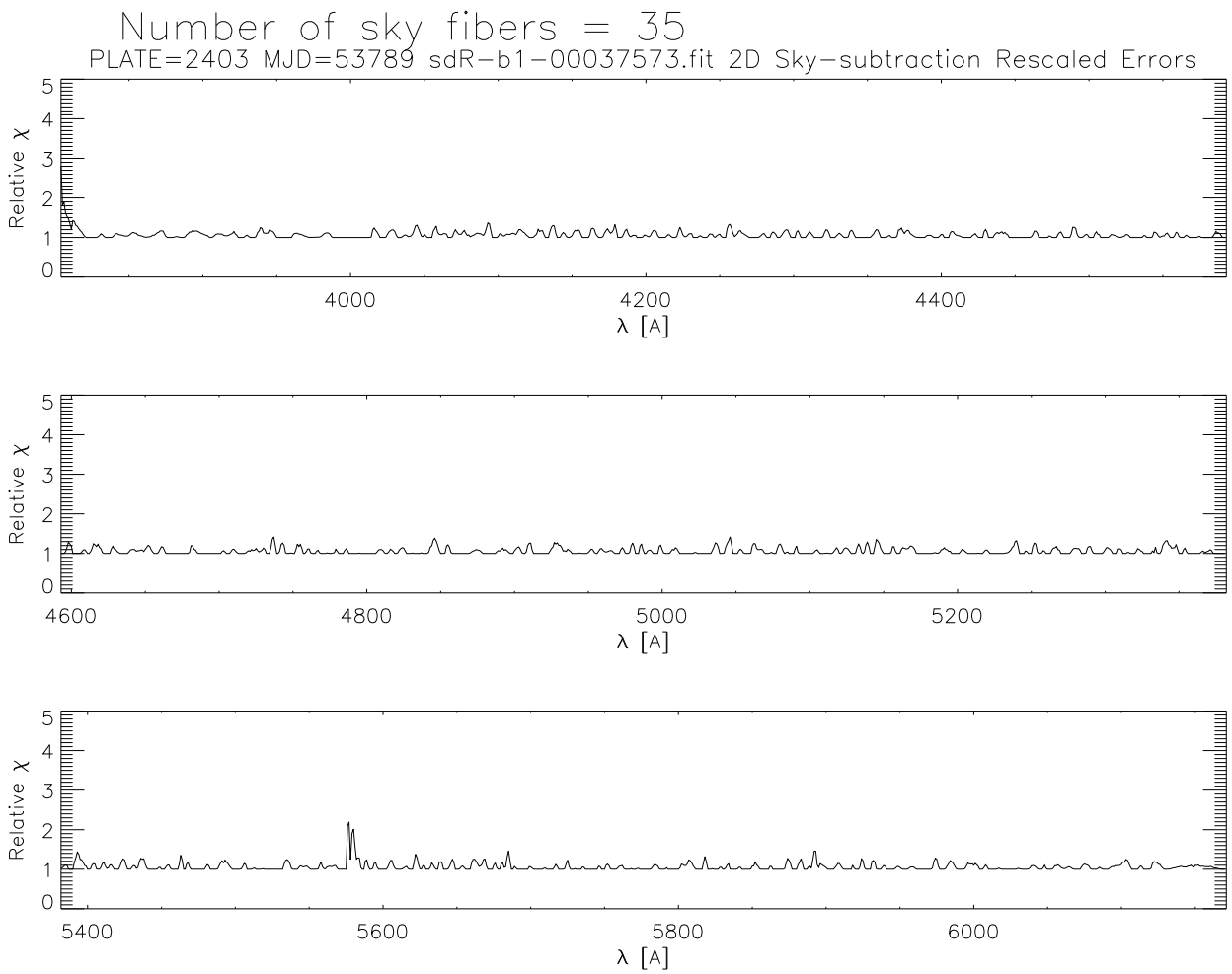

PLATE=2403 MJD=53789 sdR-b1-00037573.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

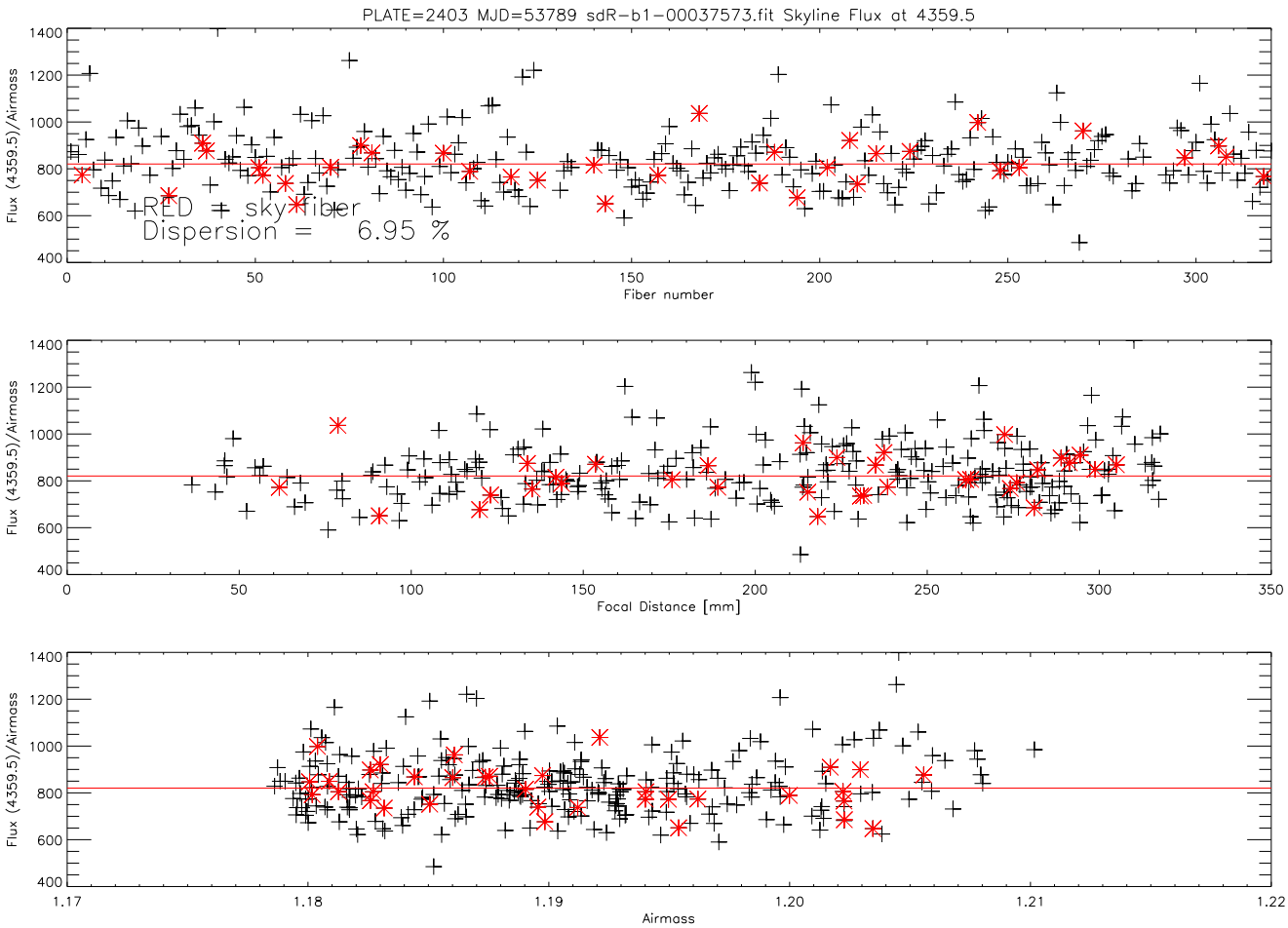

Number of sky fibers = 35
PLATE=2403 MJD=53789 sdR-b1-00037573.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

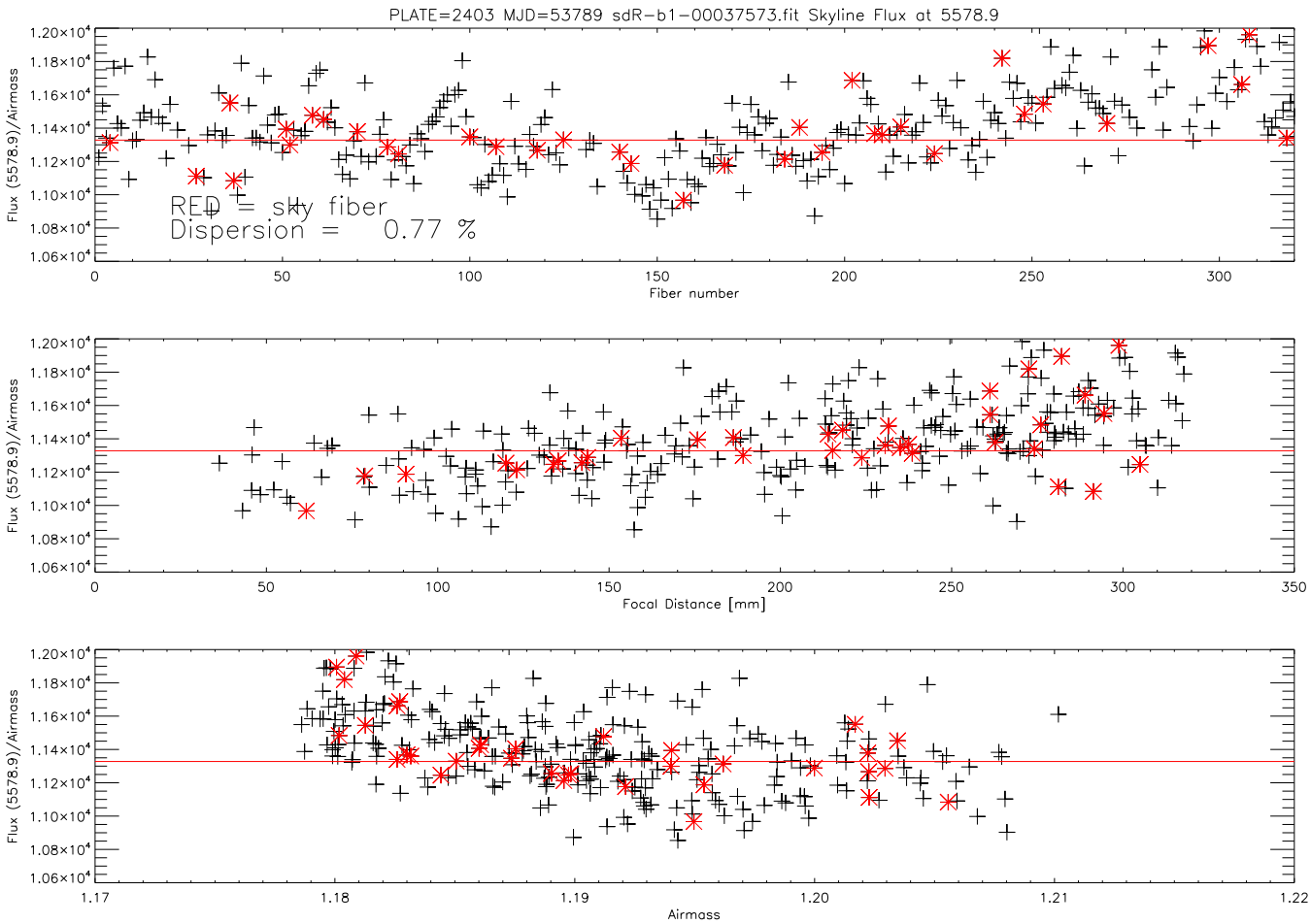

PLATE=2403 MJD=53789 sdR-b1-00037573.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

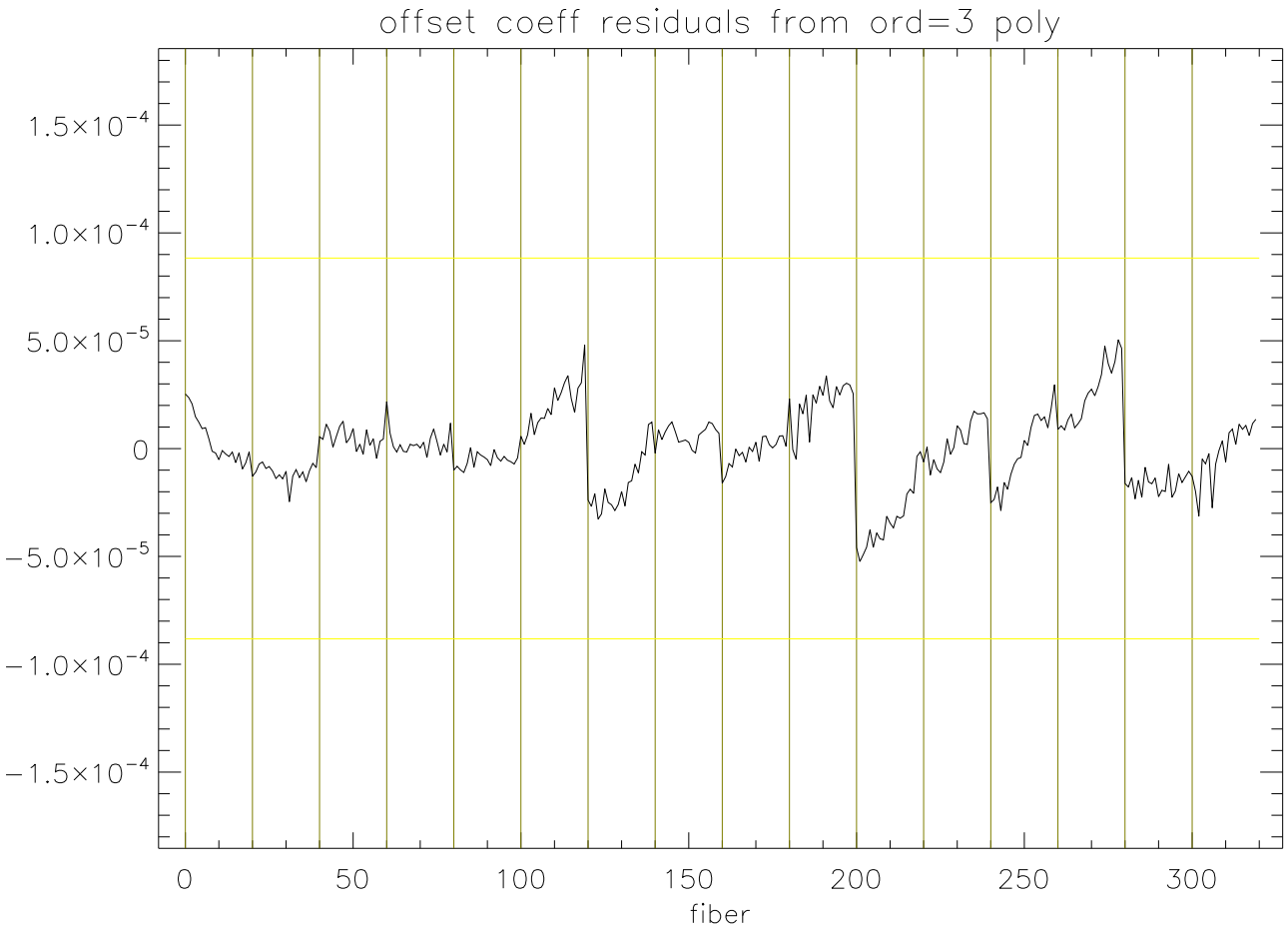

PLATE=2403 MJD=53789 sdR-b1-00037573.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

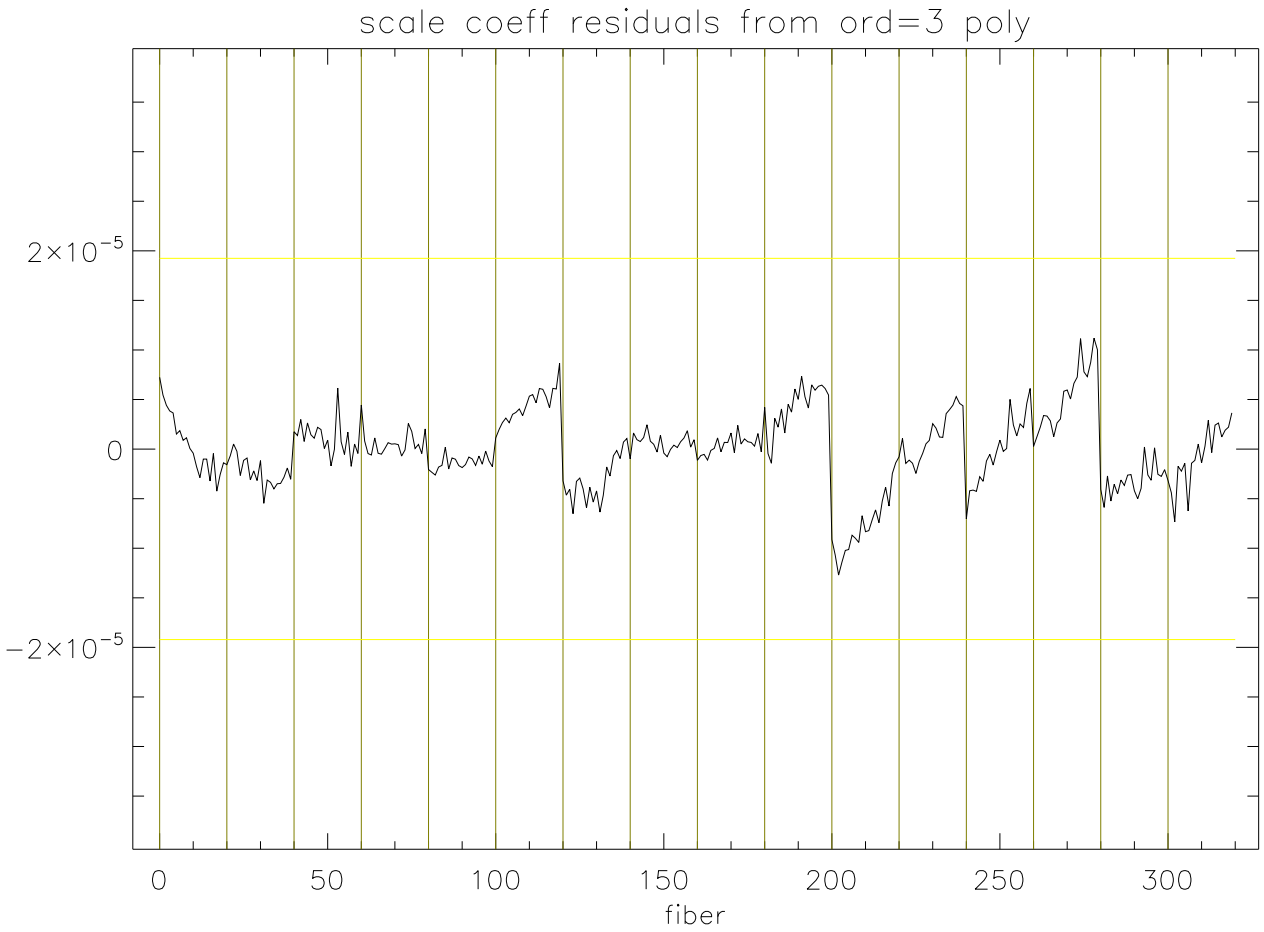

PLATE=2403 MJD=53789 sdR-b1-00037573.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

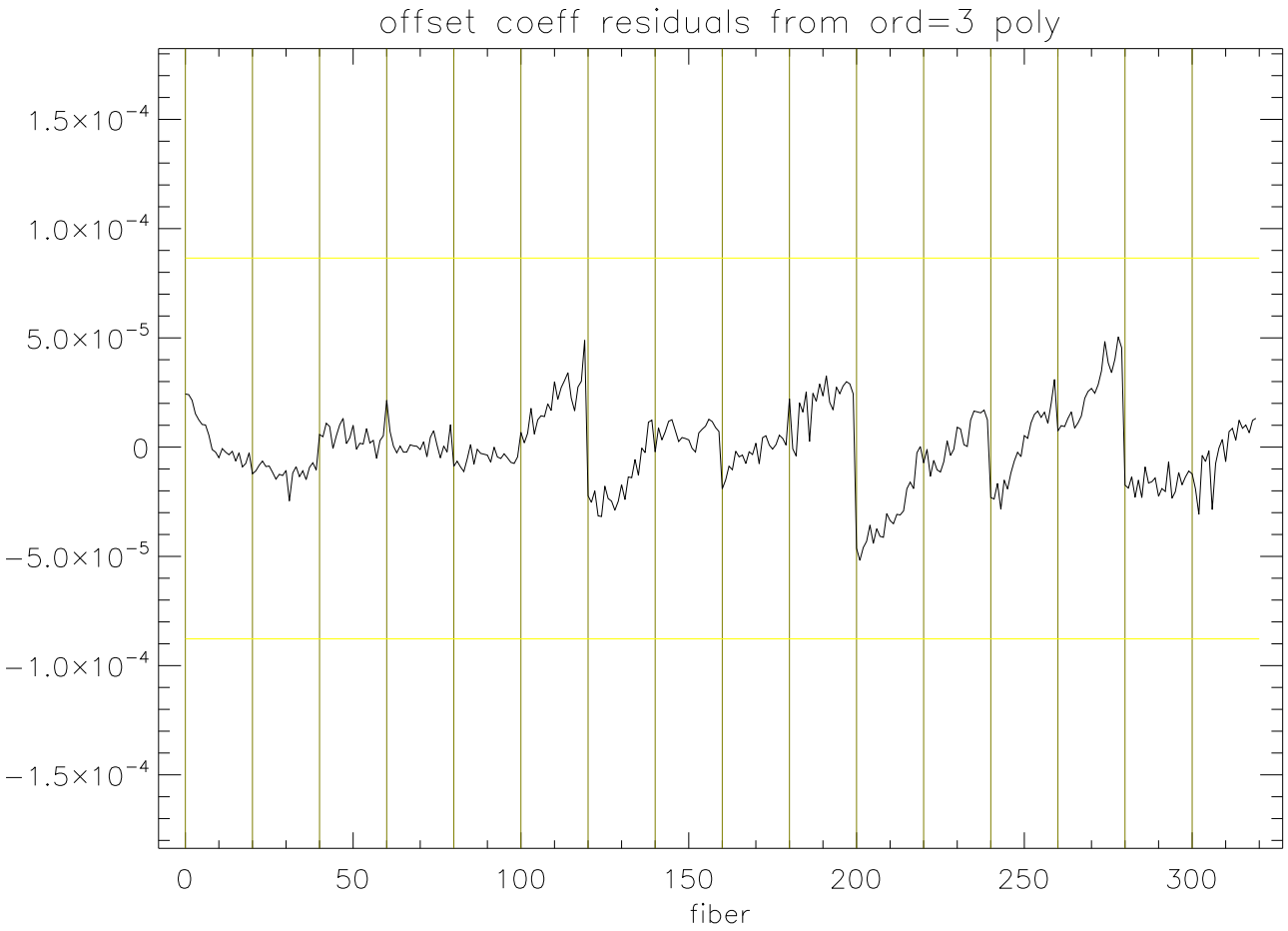

Number of sky fibers = 35
PLATE=2403 MJD=53789 sdR-b1-00037573.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

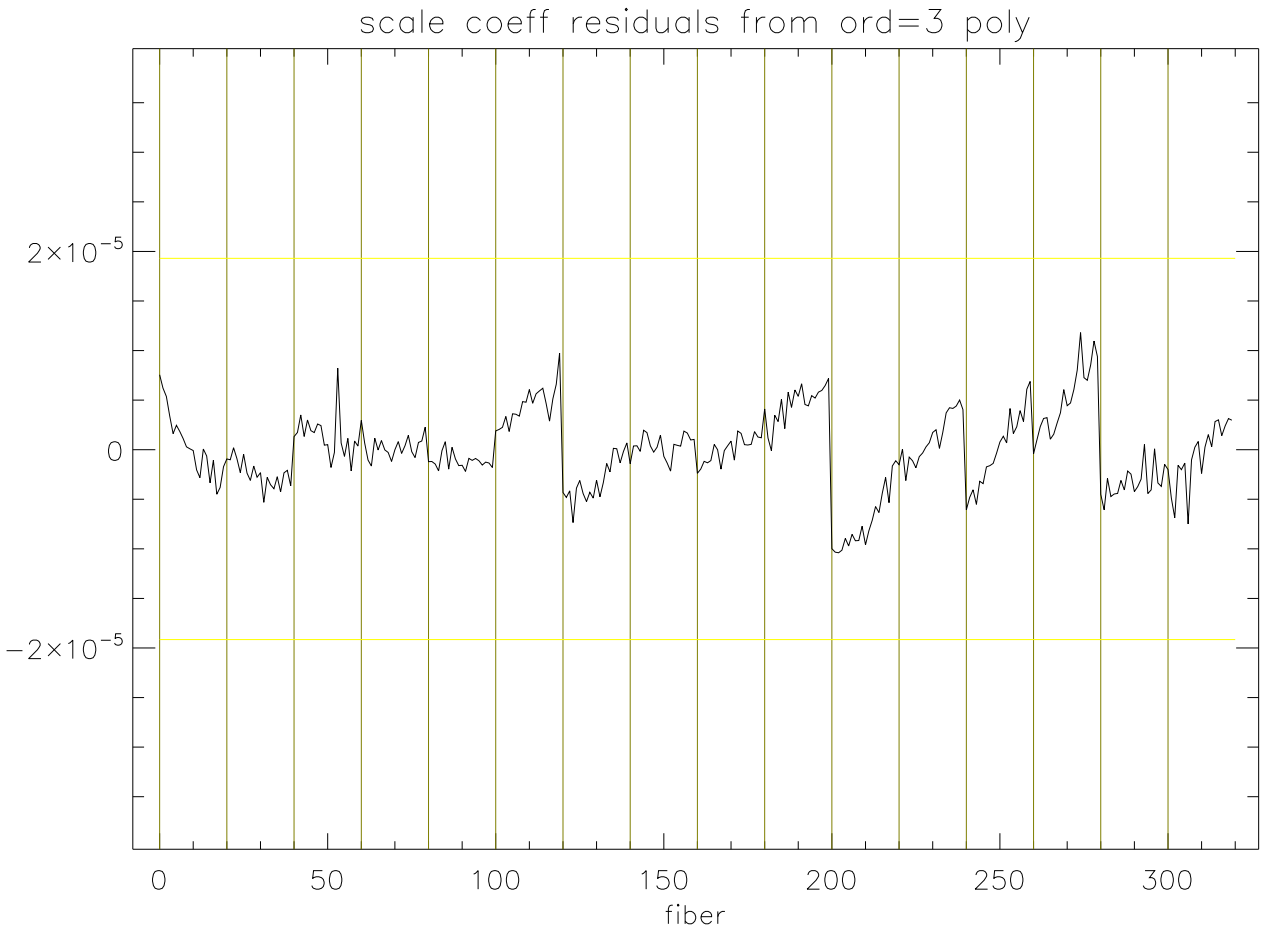

PLATE=2403 MJD=53789 sdR-b1-00037573.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 6.95 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

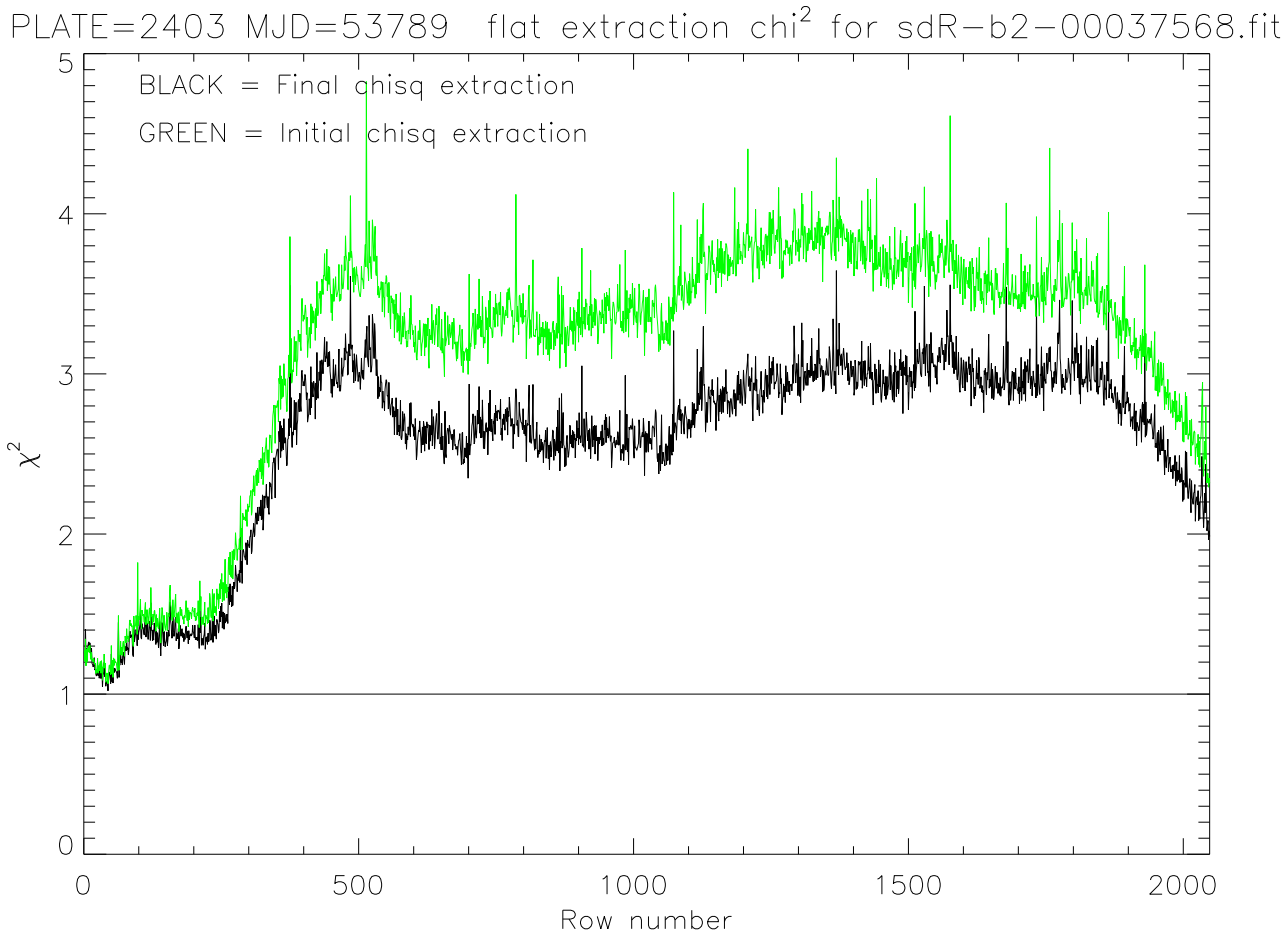

PLATE=2403 MJD=53789 sdR-b1-00037573.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
1.20×10^4
1.18×10^4
1.16×10^4
1.14×10^4
1.12×10^4
1.10×10^4
1.08×10^4
1.06×10^4
RED = sky fiber
Dispersion = 0.77 %
0
50
100
150
200
250
300
Fiber number
Flux (5578.9)/Airmass
1.20×10^4
1.18×10^4
1.16×10^4
1.14×10^4
1.12×10^4
1.10×10^4
1.08×10^4
1.06×10^4
0
50
100
150
200
250
300
350
Focal Distance [mm]
Flux (5578.9)/Airmass
1.20×10^4
1.18×10^4
1.16×10^4
1.14×10^4
1.12×10^4
1.10×10^4
1.08×10^4
1.06×10^4
1.17
1.18
1.19
1.20
1.21
1.22
Airmass

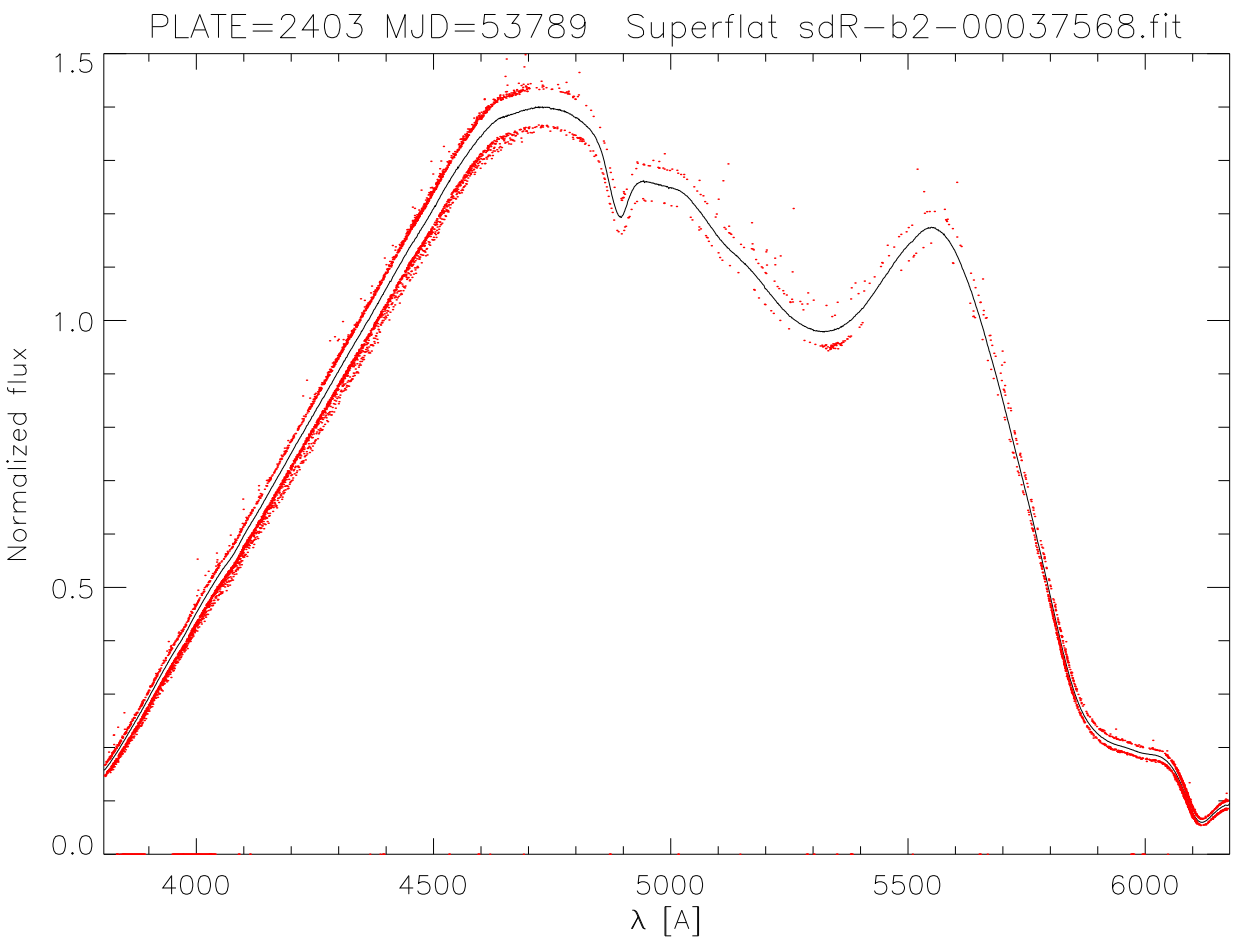

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

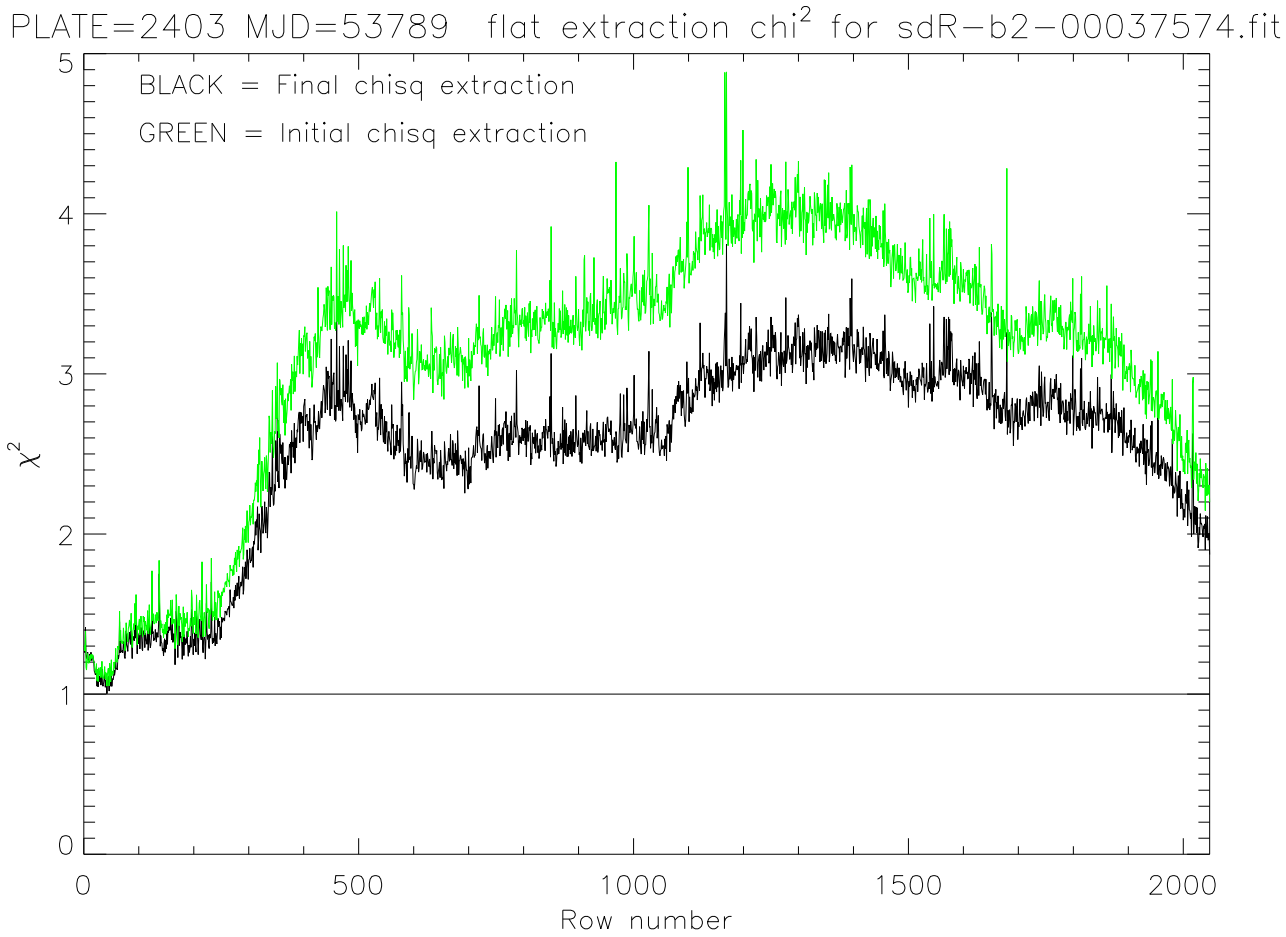

scale coeff residuals from ord=3 poly
2×10^-5
0
−2×10^-5
0
50
100
150
200
250
300
fiber

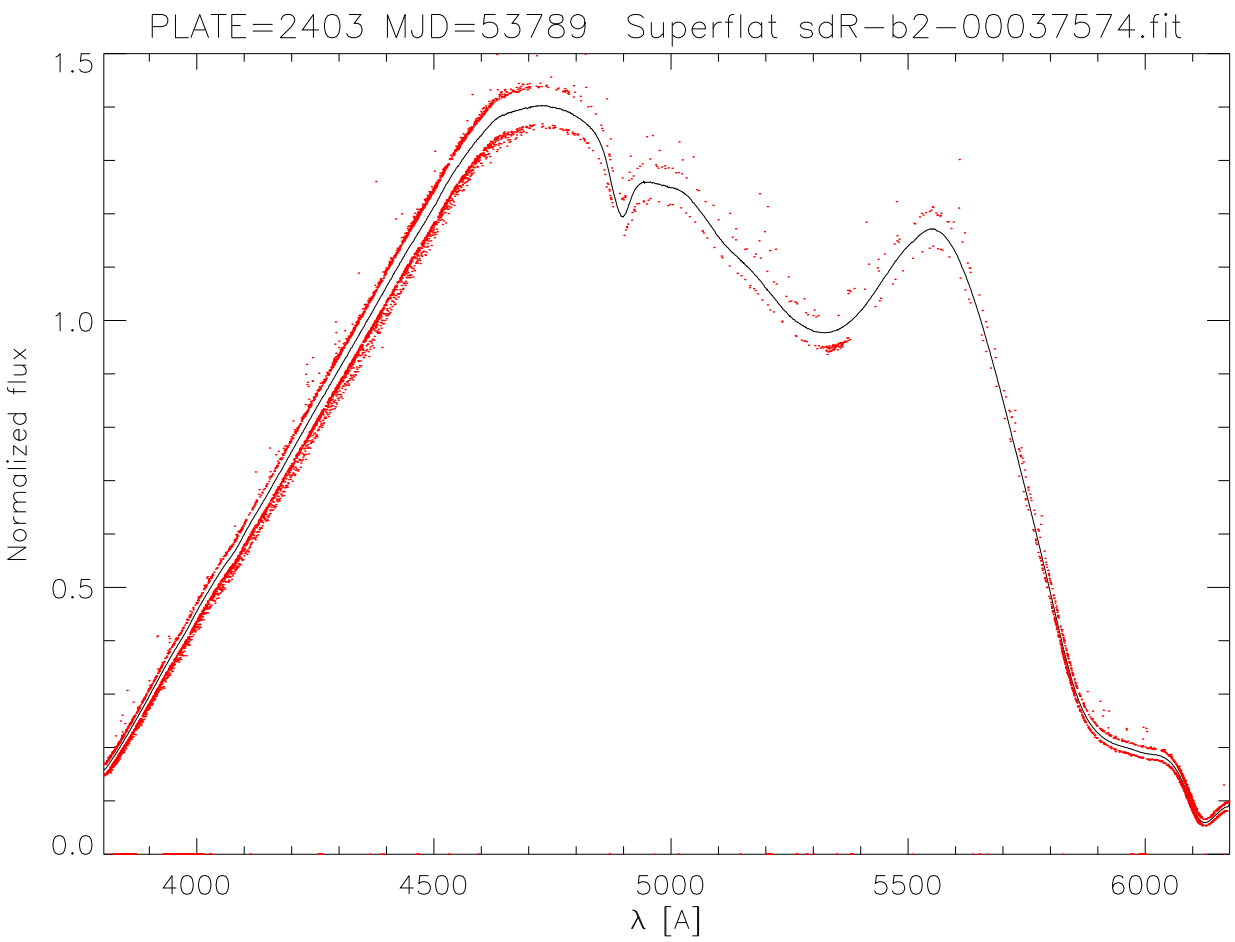

offset coeff residuals from ord=3 poly
1.5×10^-4
1.0×10^-4
5.0×10^-5
0
−5.0×10^-5
−1.0×10^-4
−1.5×10^-4
0
50
100
150
200
250
300
fiber

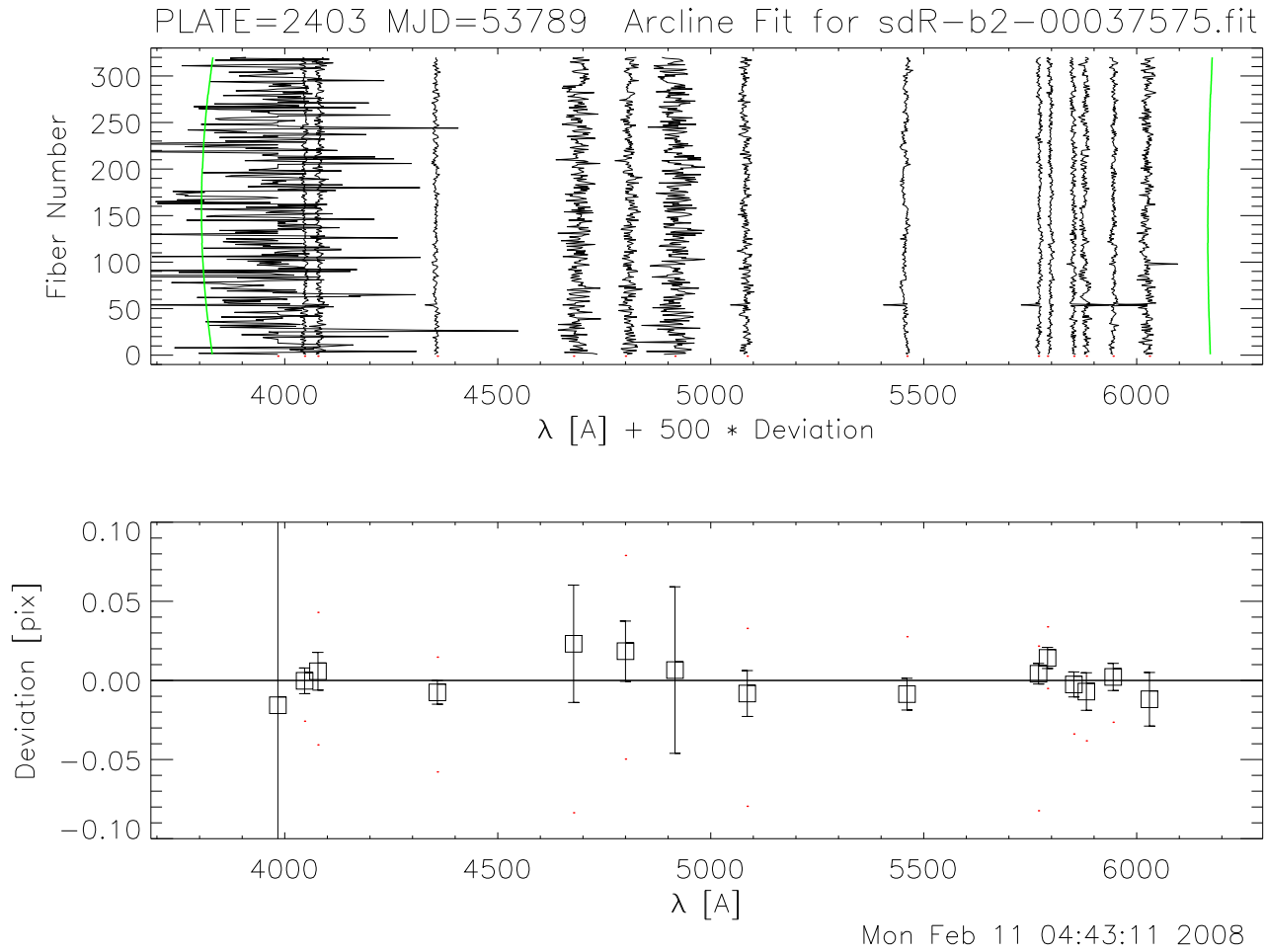

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

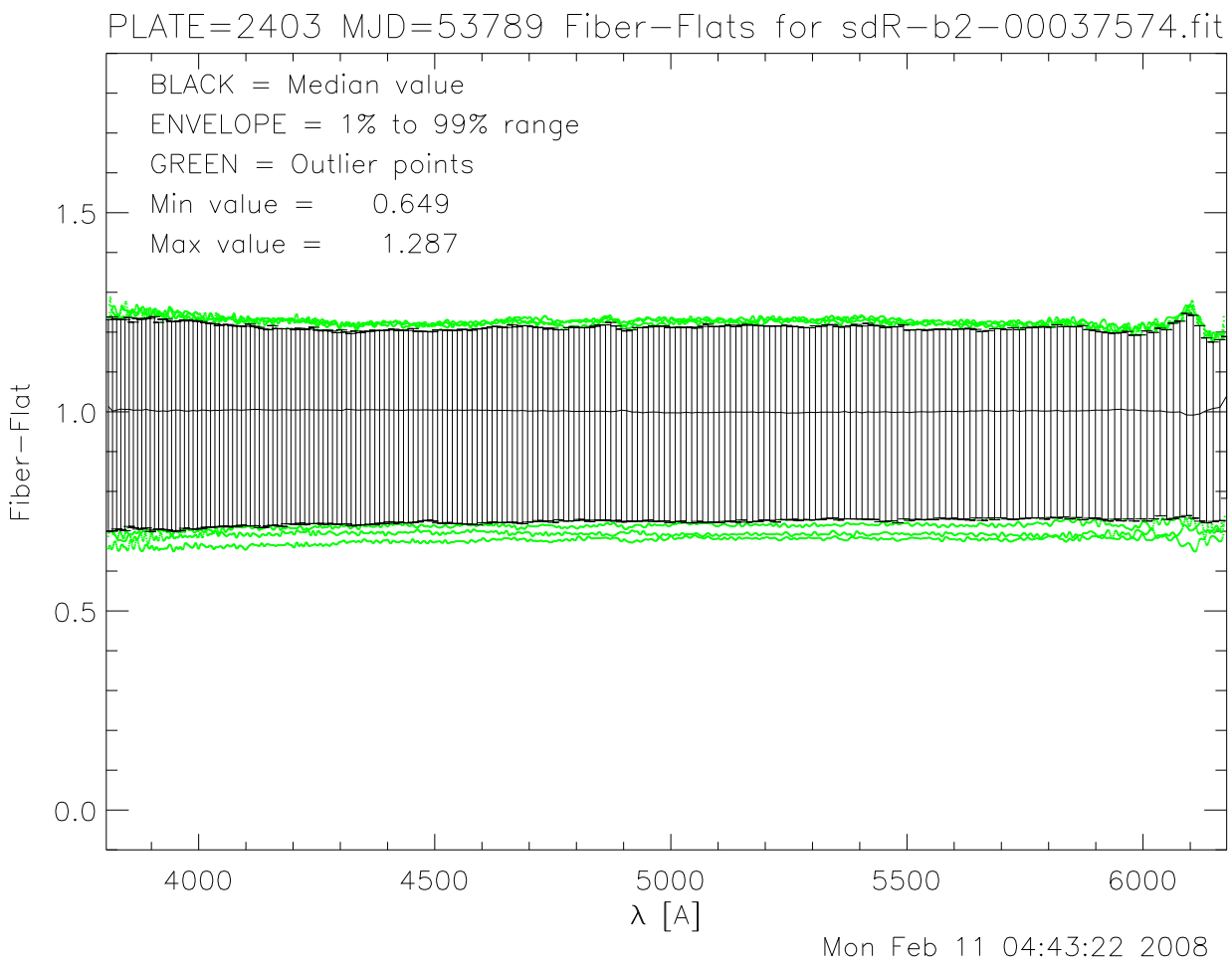

PLATE=2403 MJD=53789 flat extraction chi^2 for sdR−b2−00037568.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
0
500
1000
1500
2000

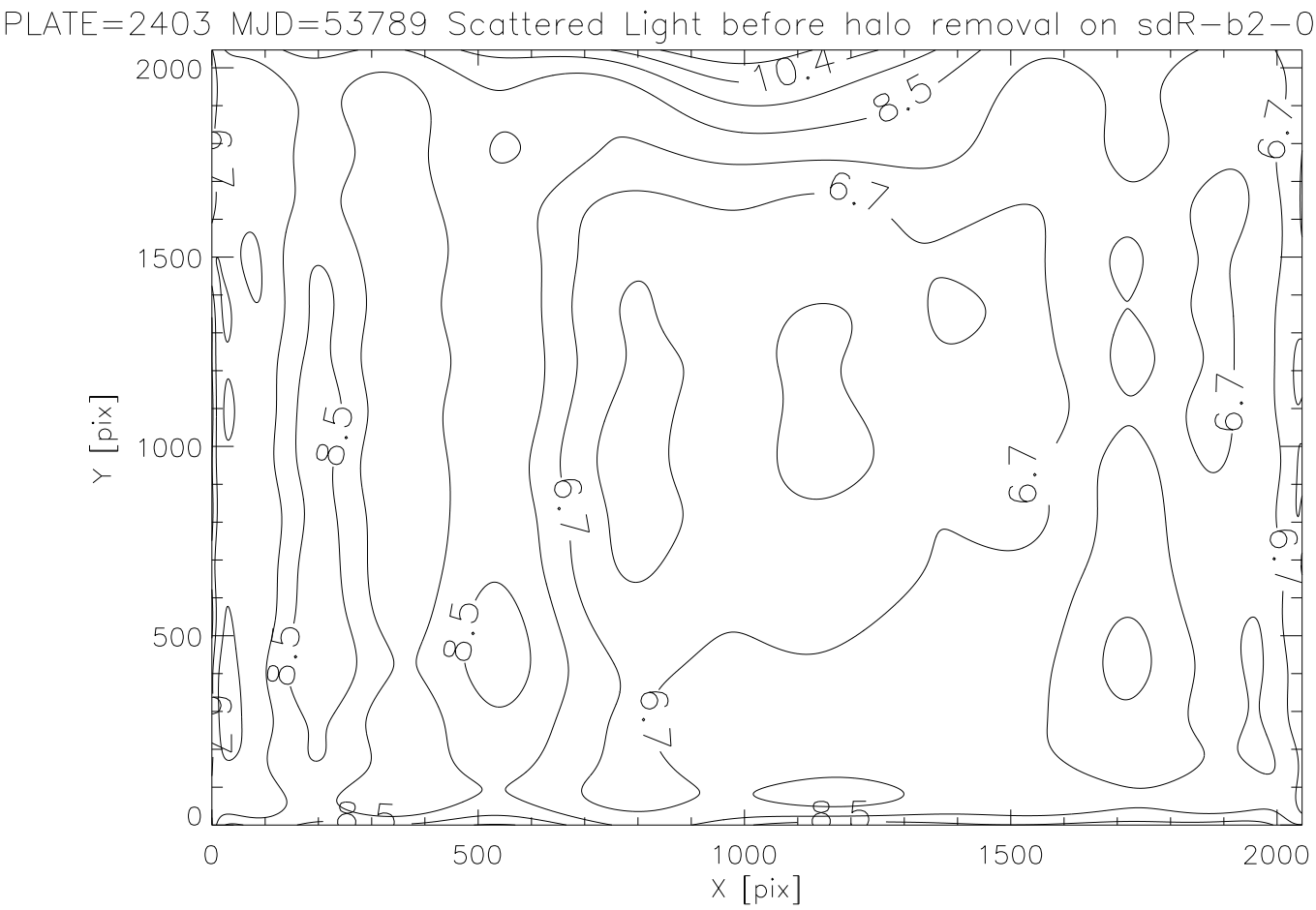

PLATE=2403 MJD=53789 Superflat sdR-b2-00037568.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

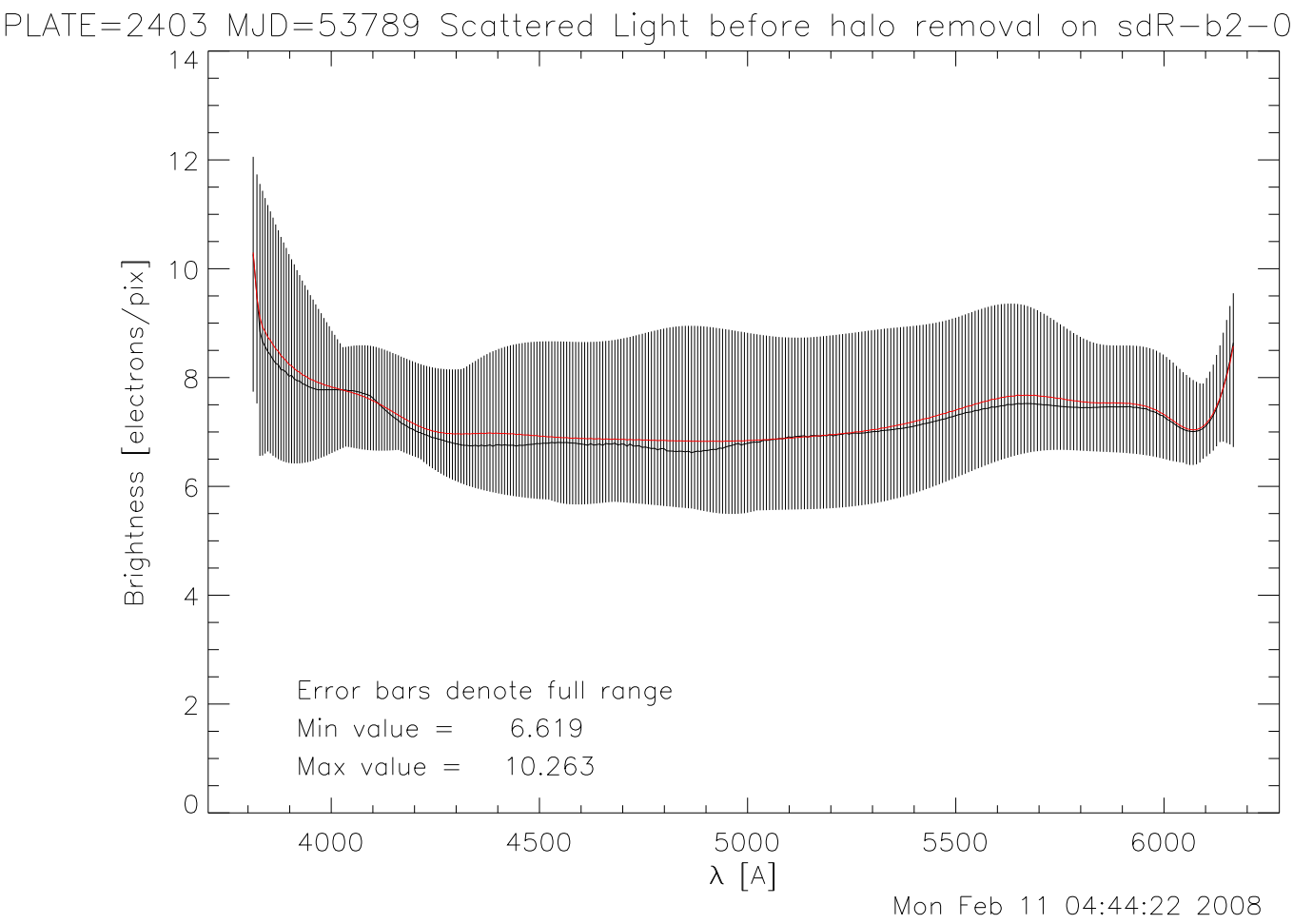

PLATE=2403 MJD=53789 flat extraction chi^2 for sdR−b2−00037574.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
500
1000
1500
2000
0
1
2
3
4
5

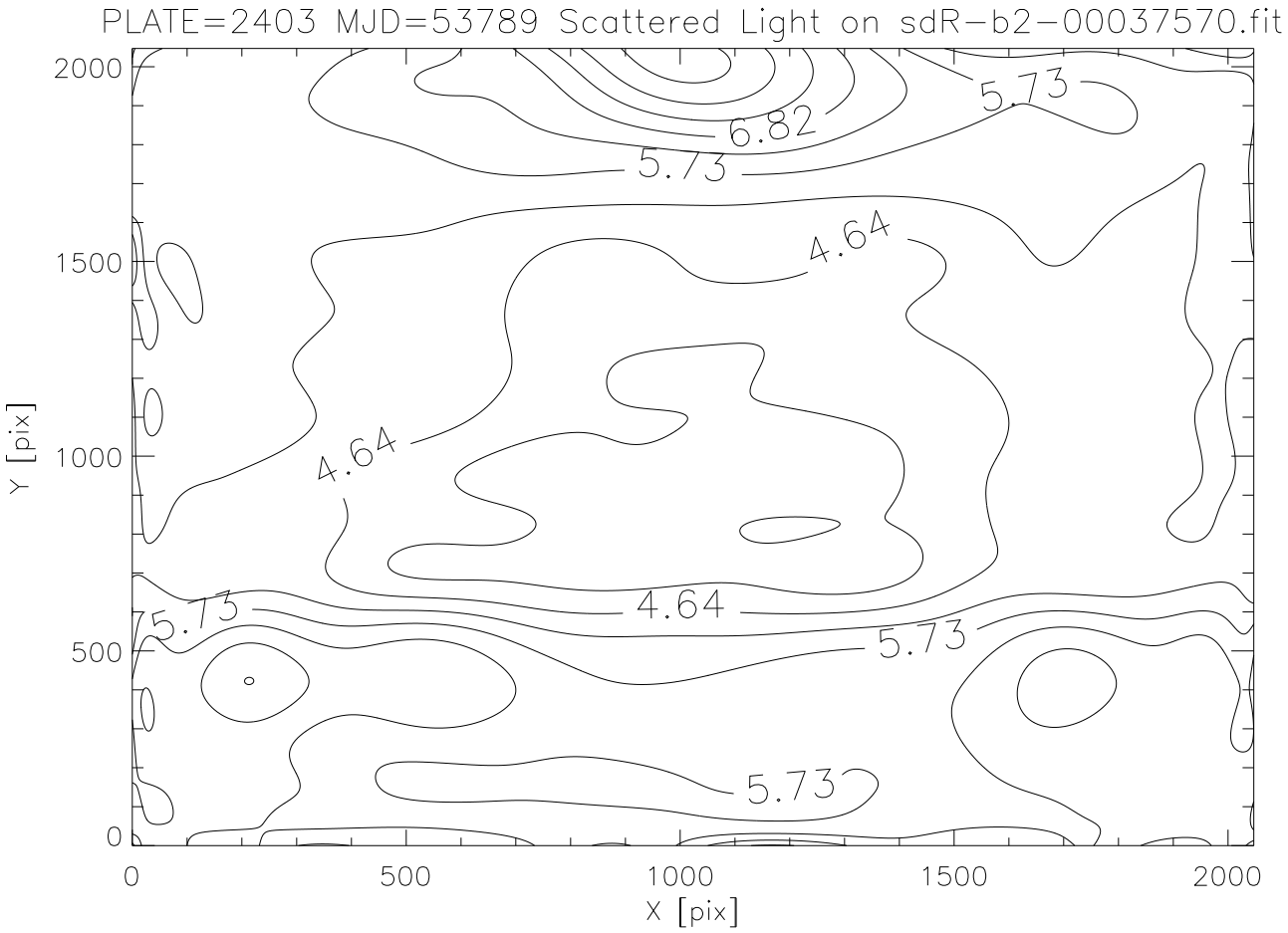

PLATE=2403 MJD=53789 Superflat sdR-b2-00037574.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

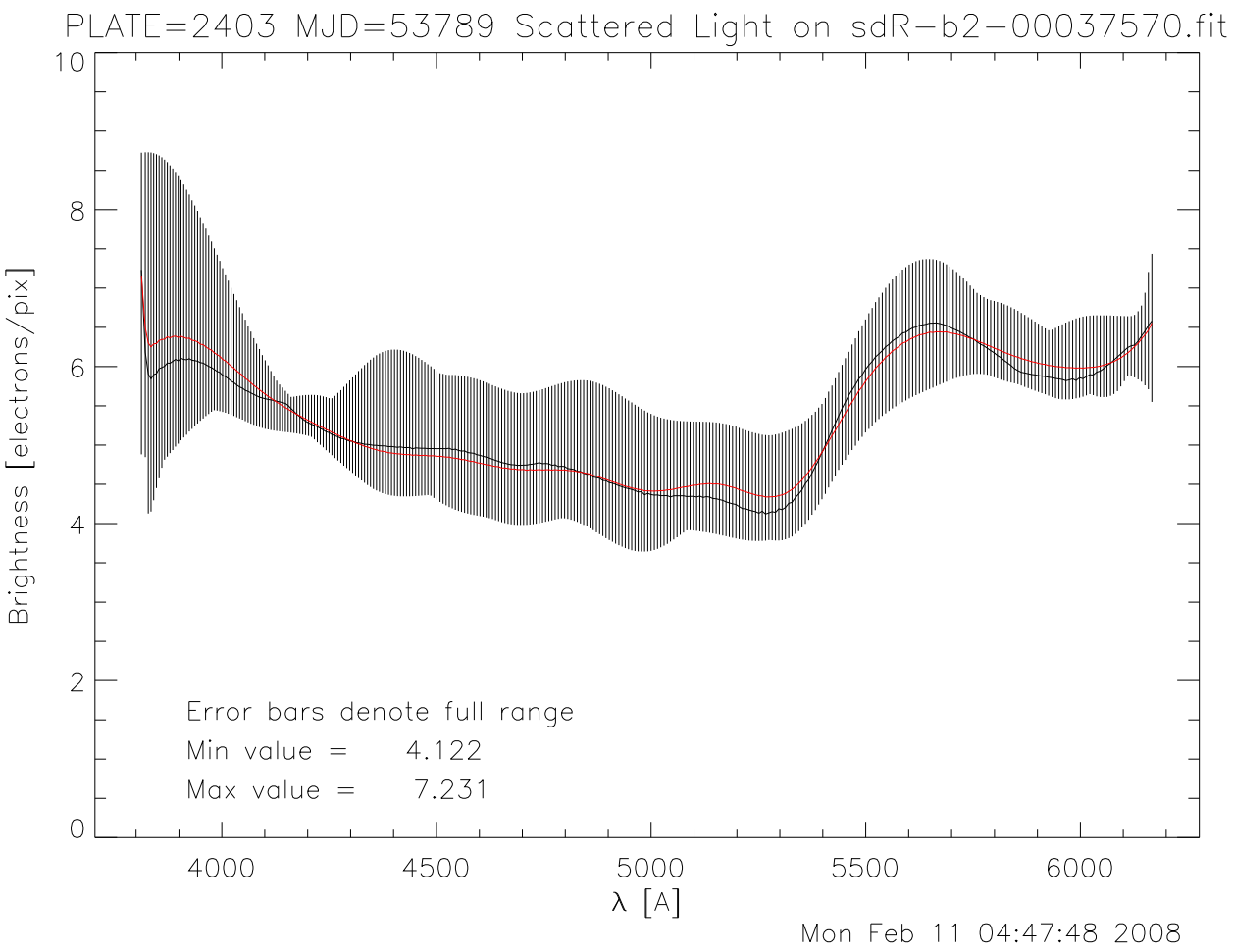

PLATE=2403 MJD=53789 Arcline Fit for sdR-b2-00037575.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 04:43:11 2008

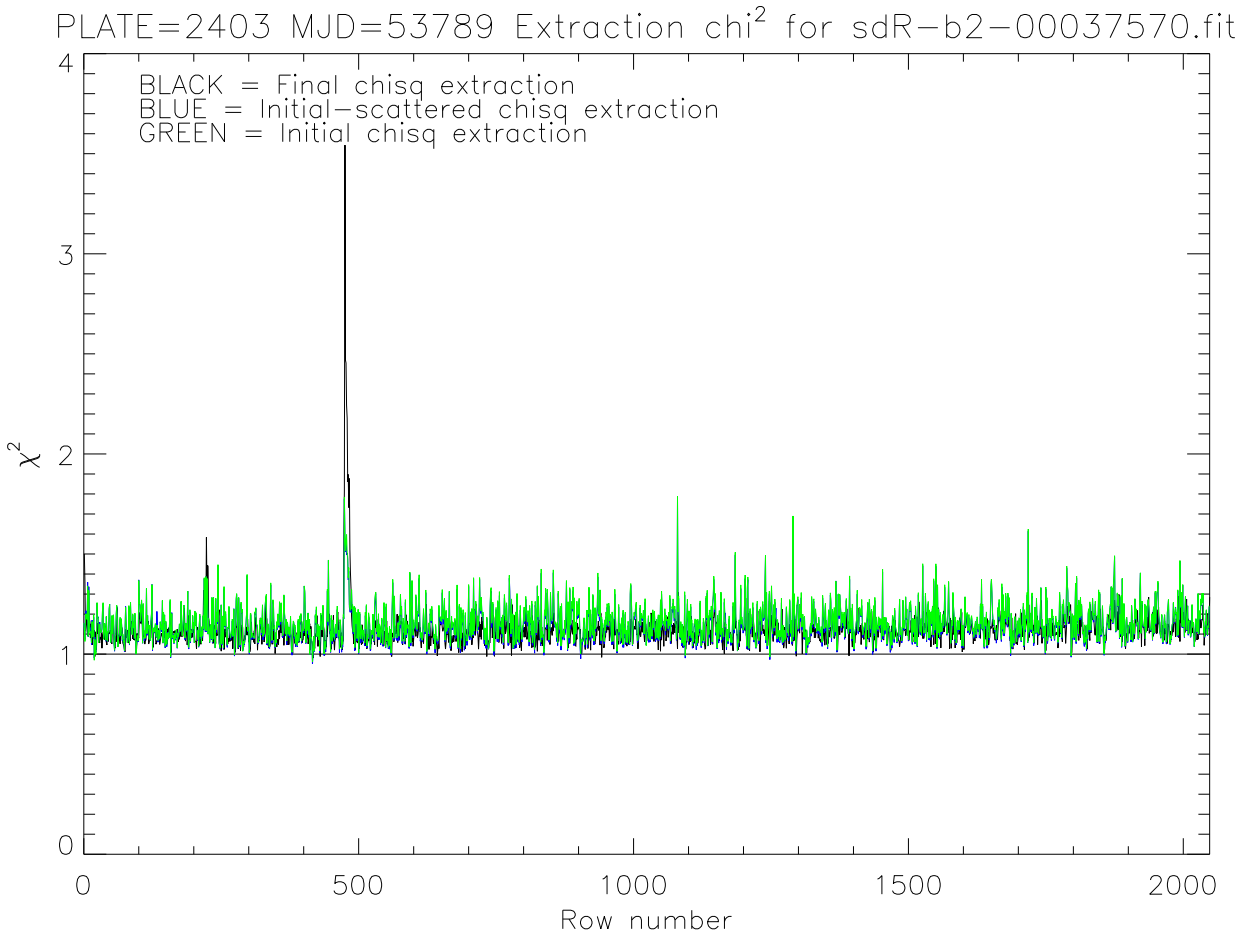

PLATE=2403 MJD=53789 Fiber-Flats for sdR-b2-00037574.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.649
Max value = 1.287
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 04:43:22 2008

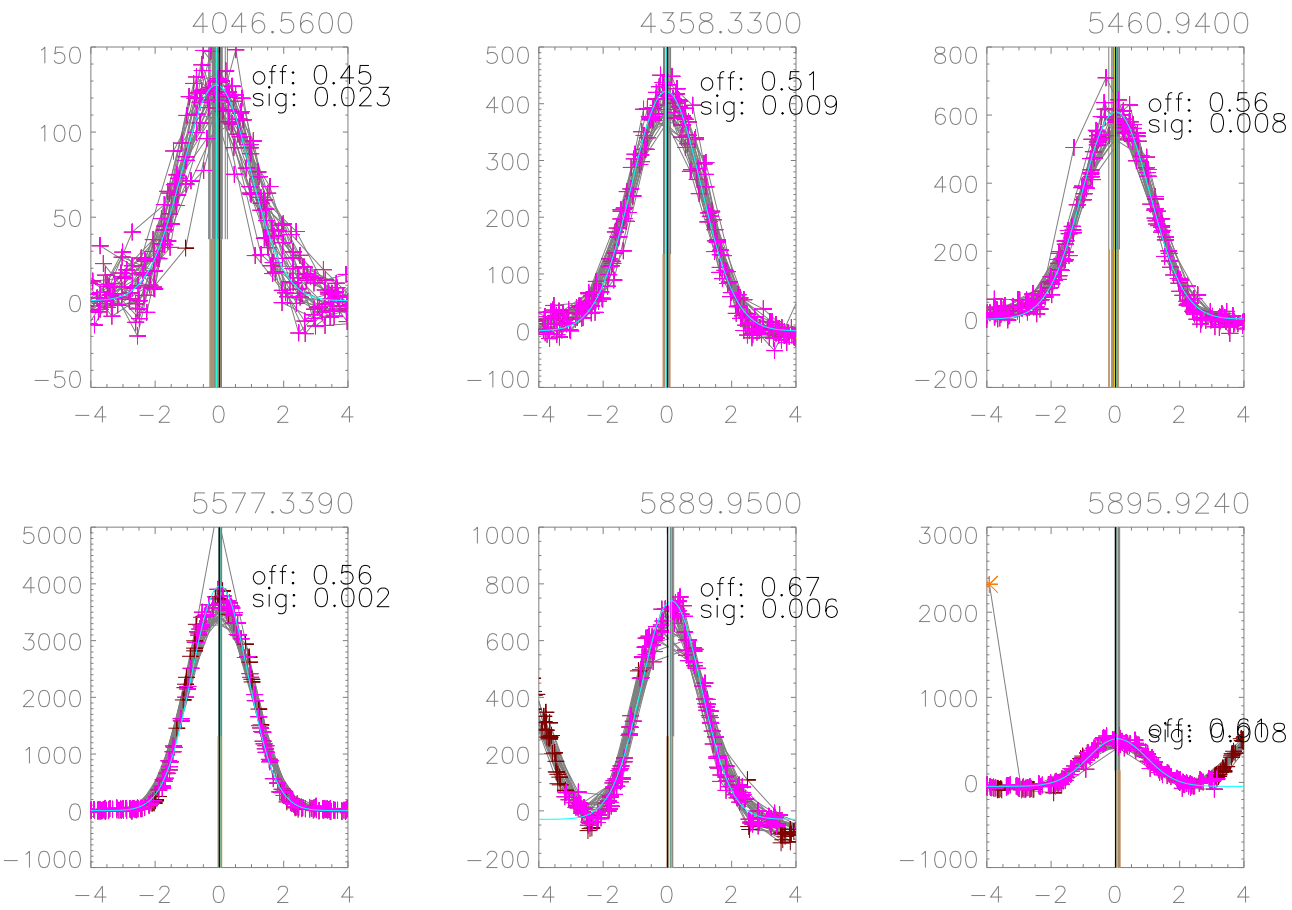

PLATE=2403 MJD=53789 Scattered Light before halo removal on sdR−b2−00037570.f
Y [pix]
X [pix]
0
500
1000
1500
2000
10.4
8.5
6.7

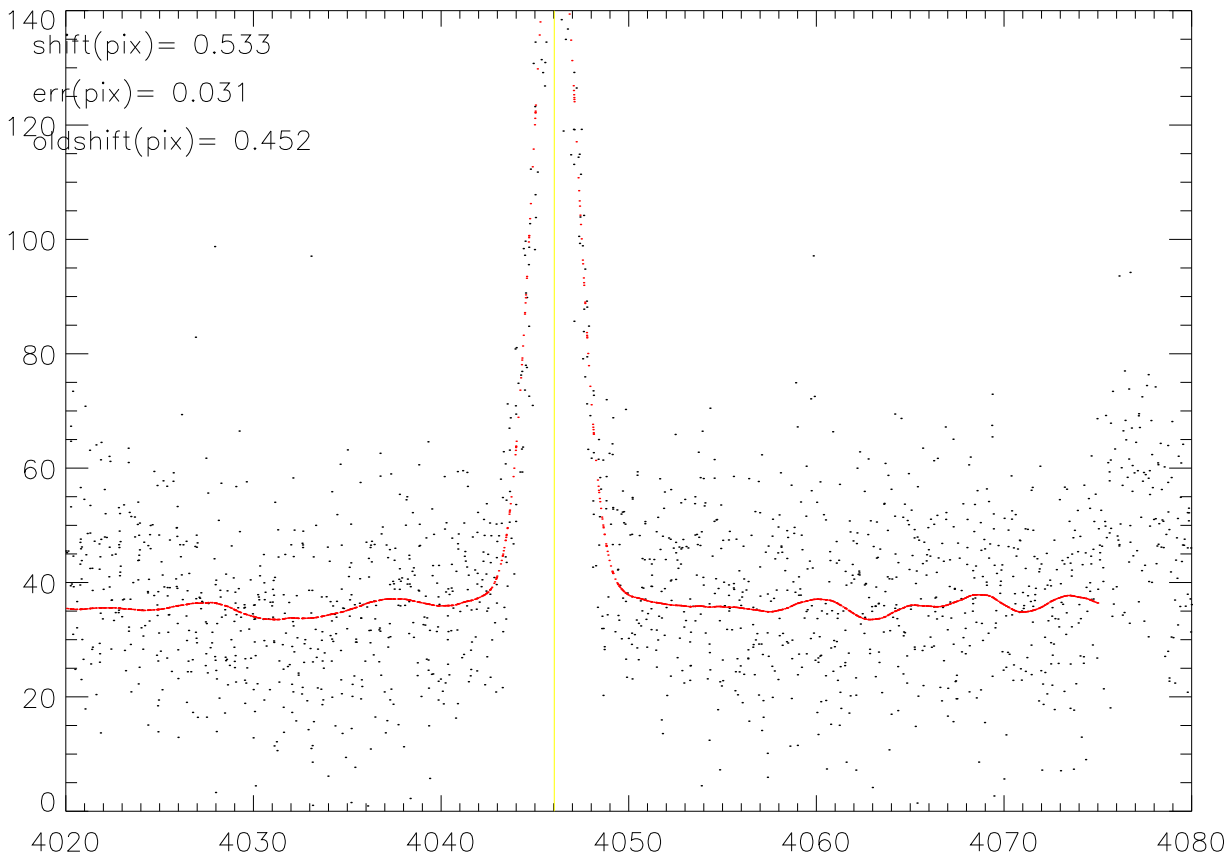

PLATE=2403 MJD=53789 Scattered Light before halo removal on sdR-b2-00037570.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.619
Max value = 10.263
Mon Feb 11 04:44:22 2008

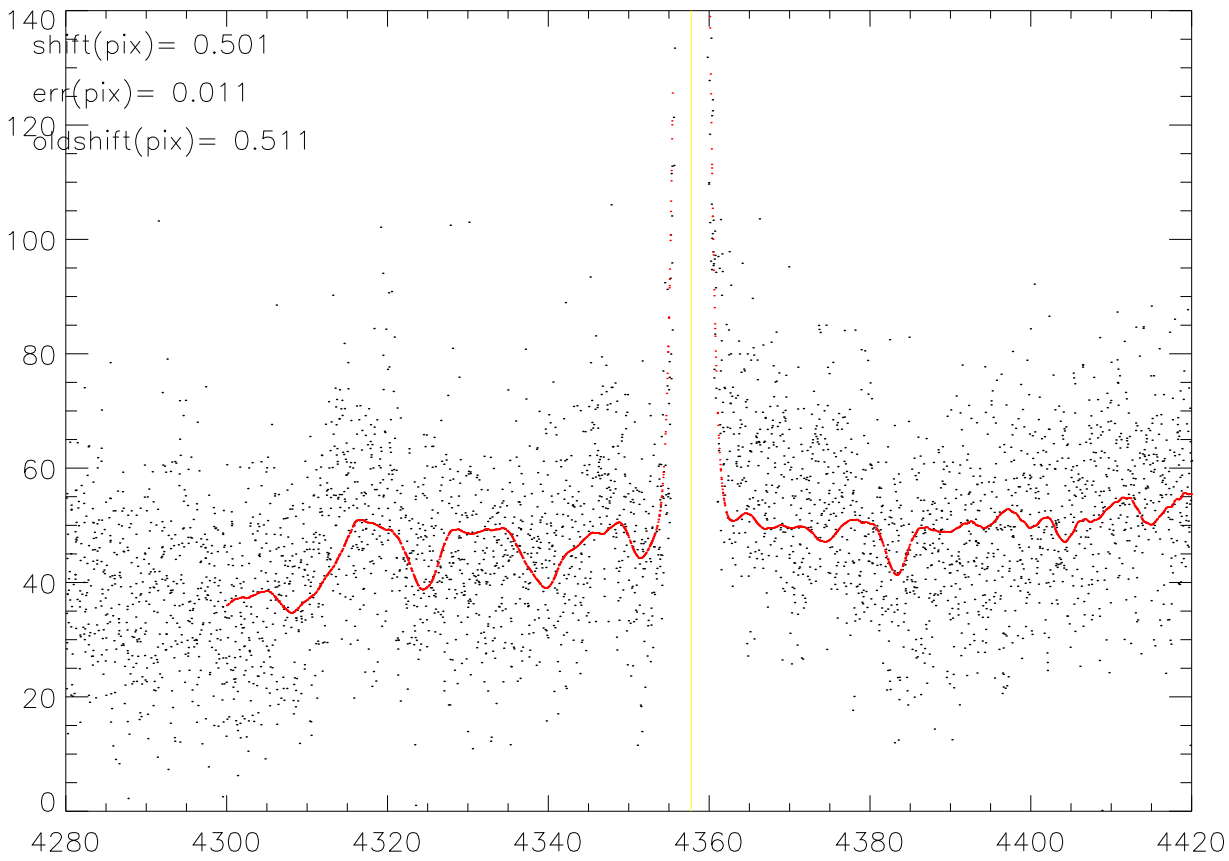

PLATE=2403 MJD=53789 Scattered Light on sdR-b2-00037570.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
5.73
6.82
5.73
4.64
4.64
5.73
4.64
5.73
5.73

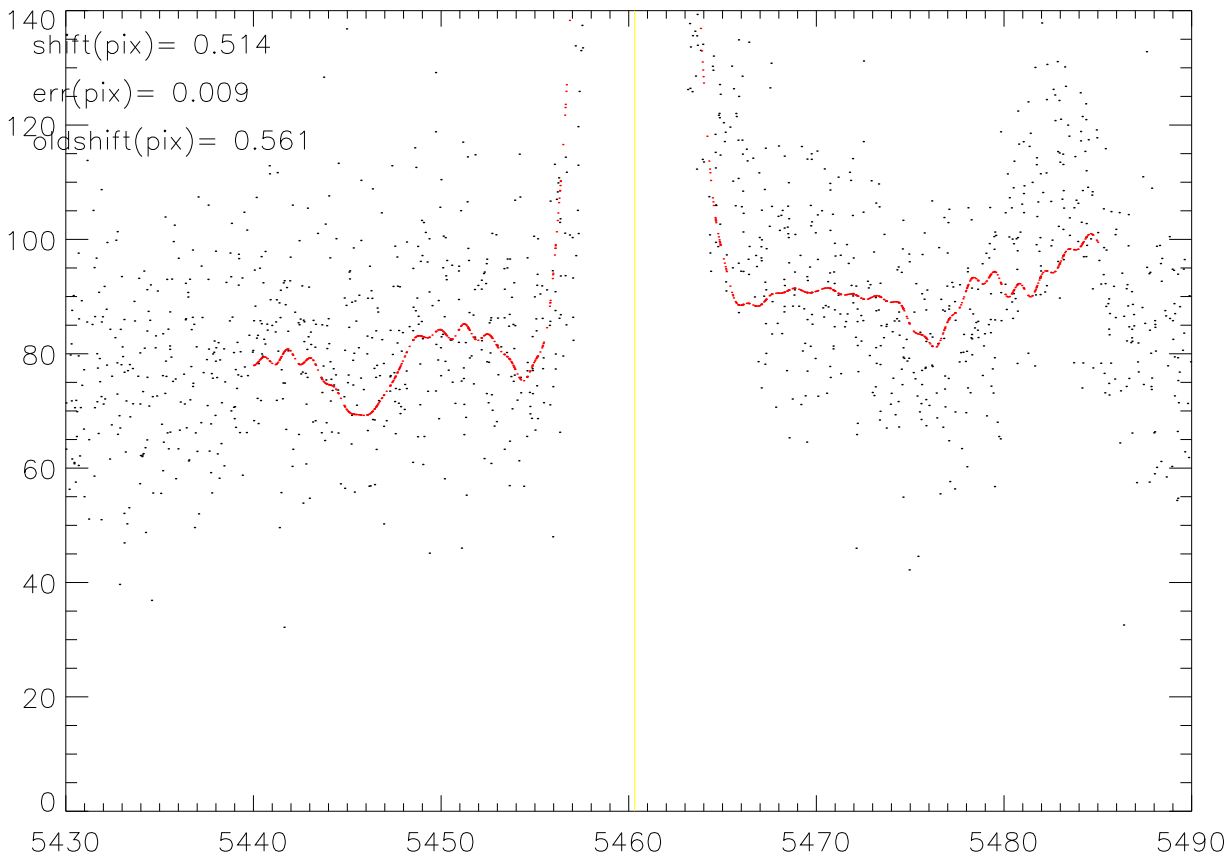

PLATE=2403 MJD=53789 Scattered Light on sdR-b2-00037570.fit
Brightness [electrons/pix]
10
8
6
4
2
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 4.122
Max value = 7.231
Mon Feb 11 04:47:48 2008

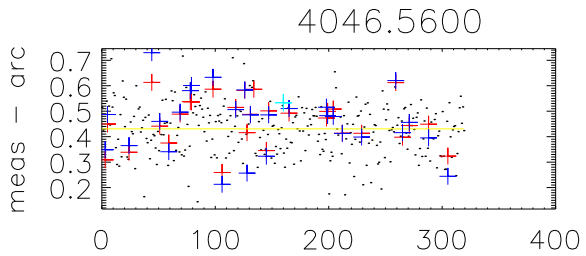

PLATE=2403 MJD=53789 Extraction chi^2 for sdR-b2-00037570.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

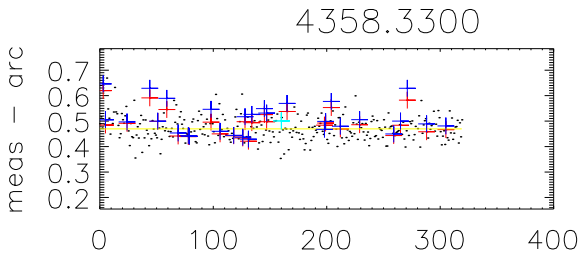

4046.5600
off: 0.45
sig: 0.023
4358.3300
off: 0.51
sig: 0.009
5460.9400
off: 0.56
sig: 0.008
5577.3390
off: 0.56
sig: 0.002
5889.9500
off: 0.67
sig: 0.006
5895.9240
off: 0.61
sig: 0.008

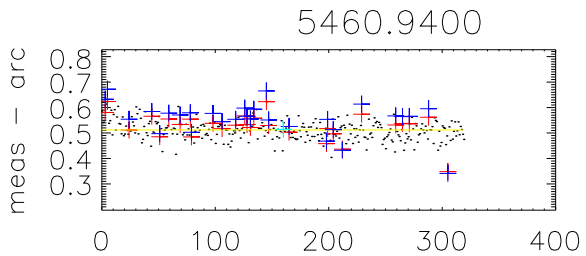

shift(pix)= 0.533
err(pix)= 0.031
oldshift(pix)= 0.452
140
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

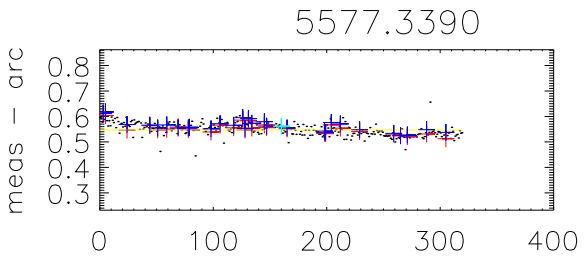

shift(pix)= 0.501
err(pix)= 0.011
oldshift(pix)= 0.511
140
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

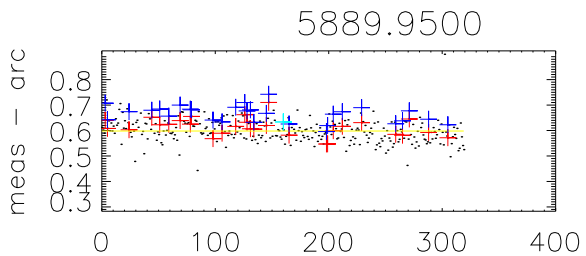

shift(pix)= 0.514
err(pix)= 0.009
oldshift(pix)= 0.561
140
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

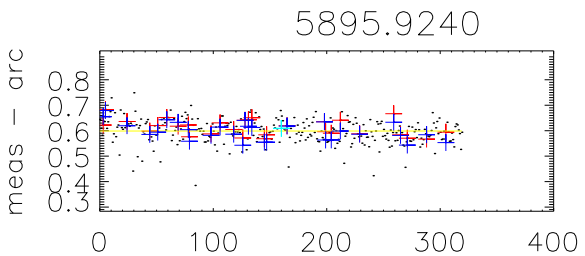

4046.5600
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

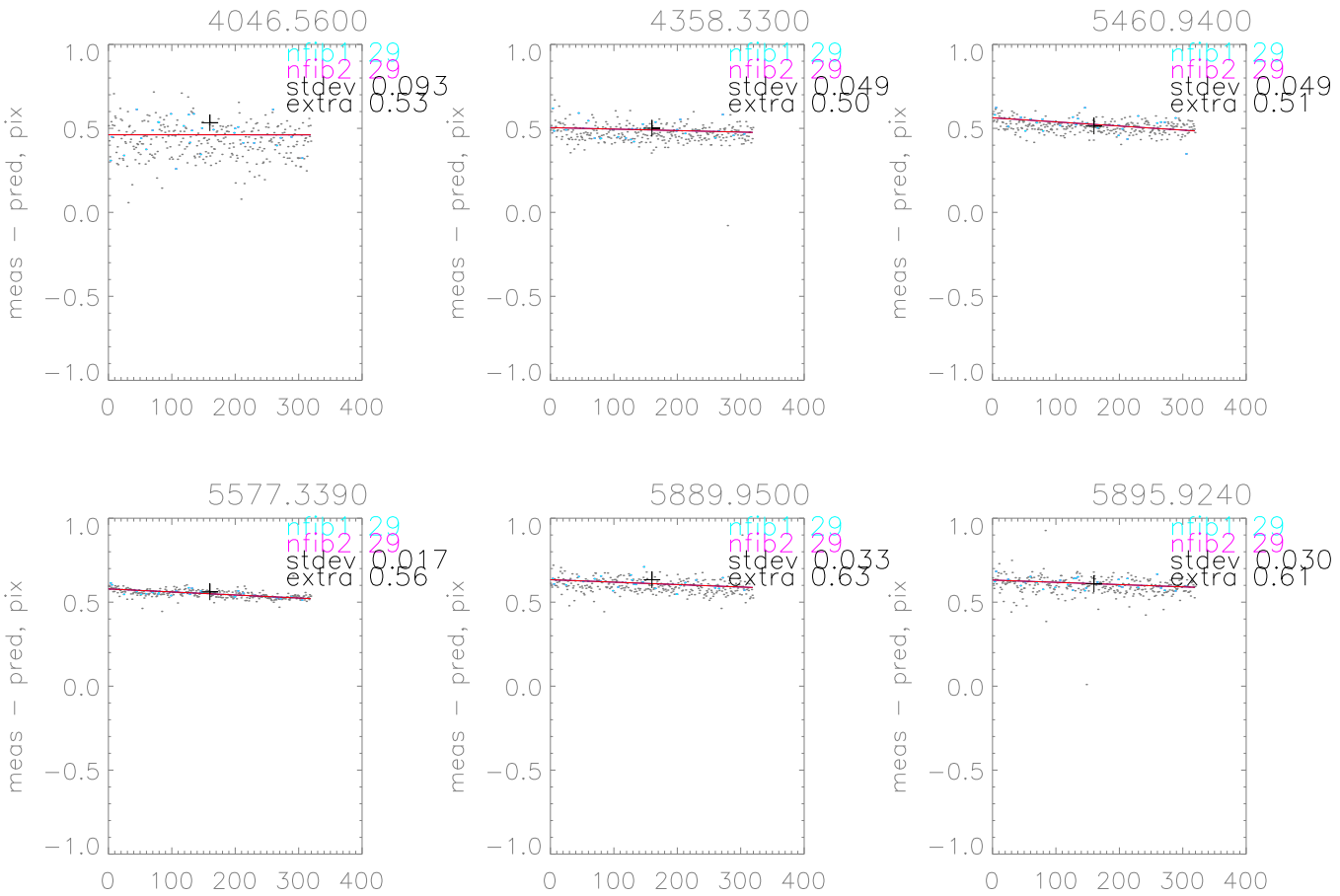

4358.3300
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

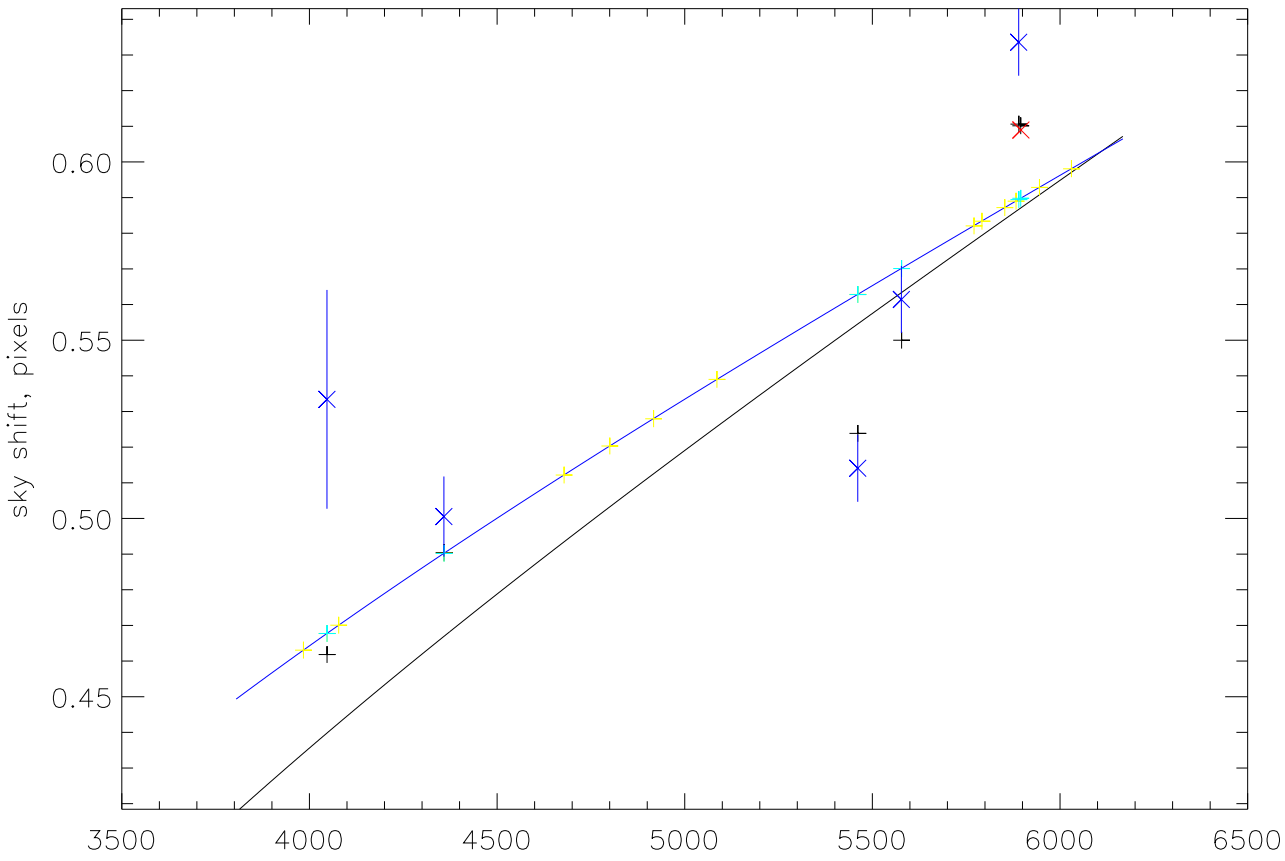

5460.9400
meas − arc
0.8
0.7
0.6
0.5
0.4
0.3
0
100
200
300
400

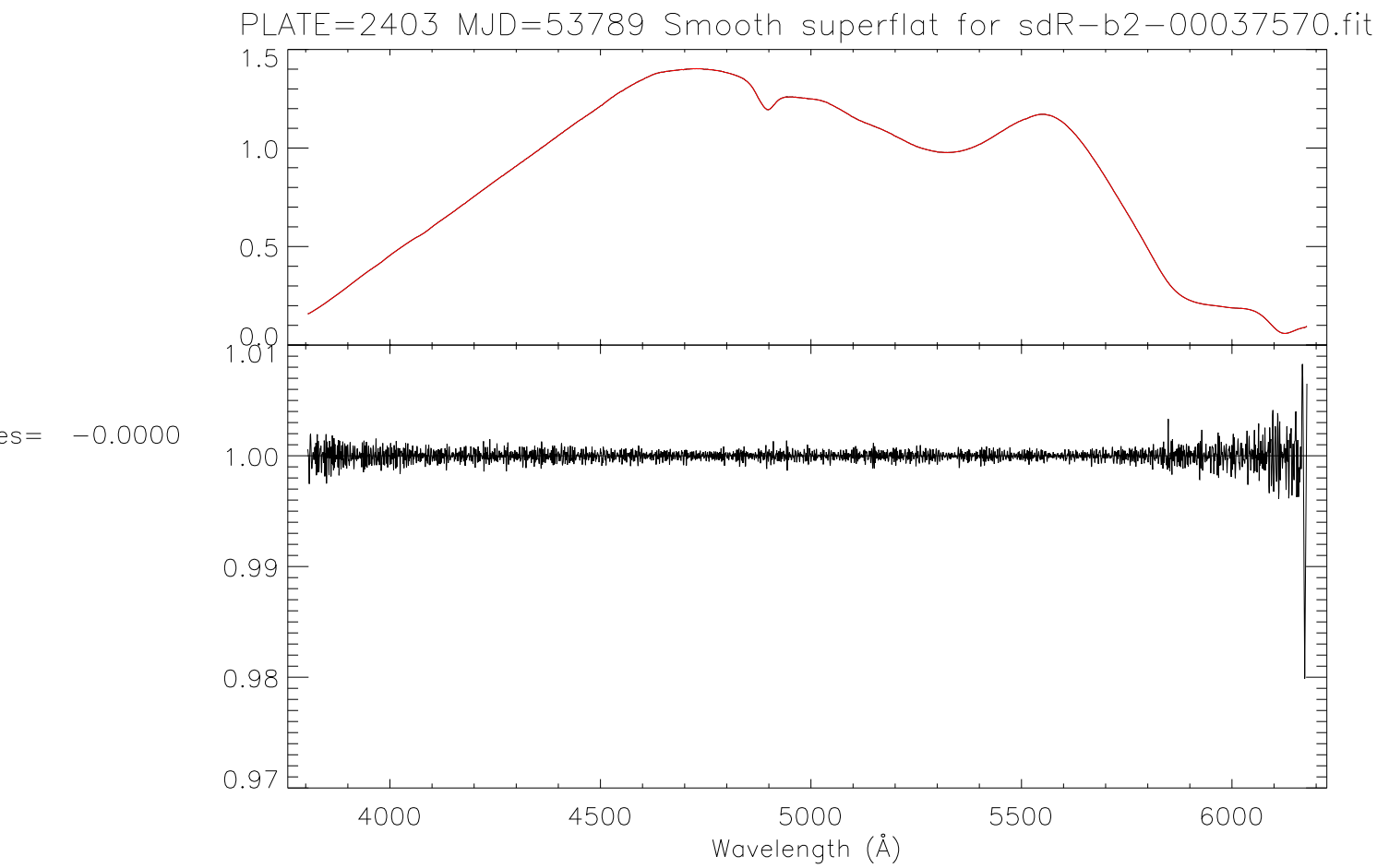

5577.3390
meas − arc
0.8
0.7
0.6
0.5
0.4
0.3
0
100
200
300
400


5889.9500
meas − arc
0.8
0.7
0.6
0.5
0.4
0.3
0
100
200
300
400

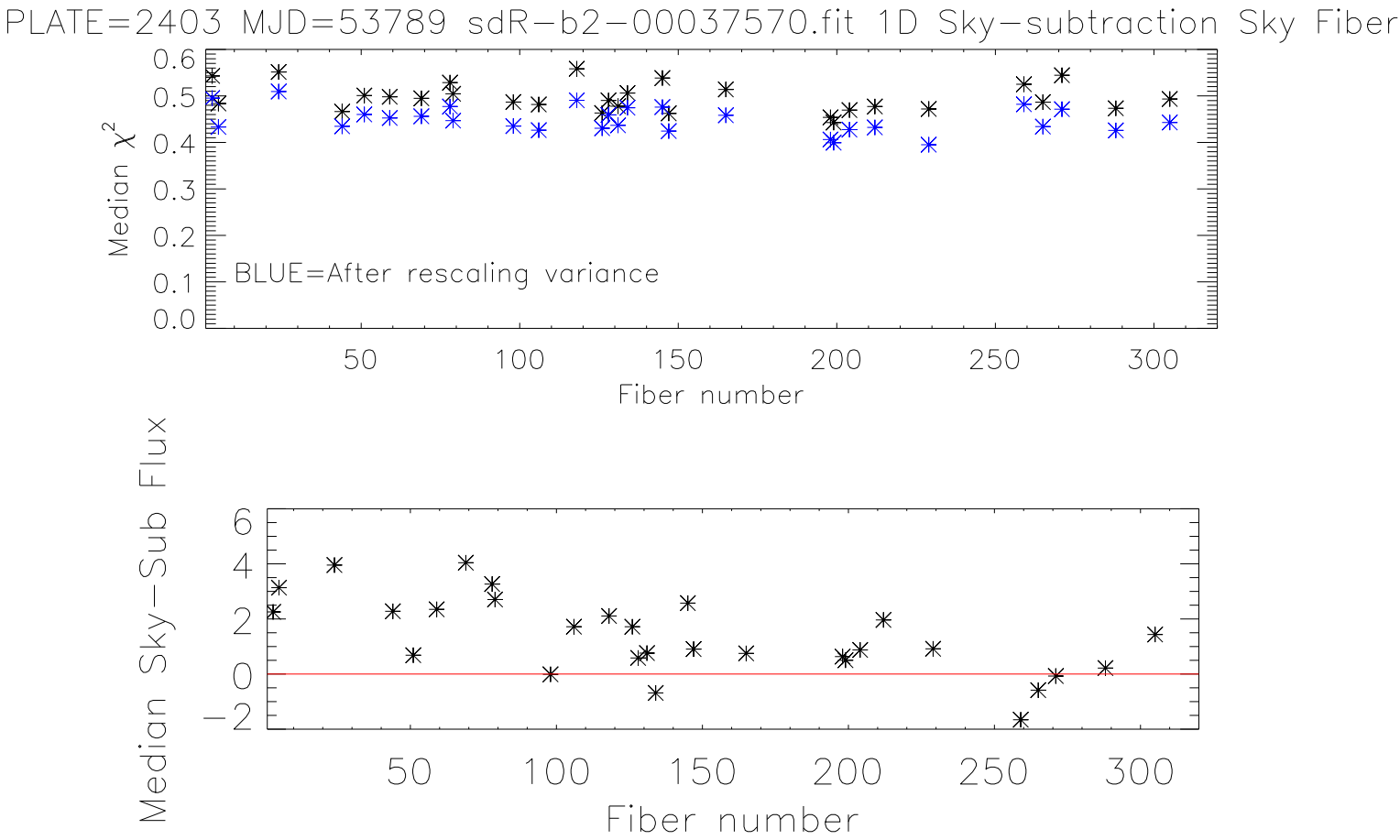

5895.9240
meas − arc
0.8
0.7
0.6
0.5
0.4
0.3
0
100
200
300
400

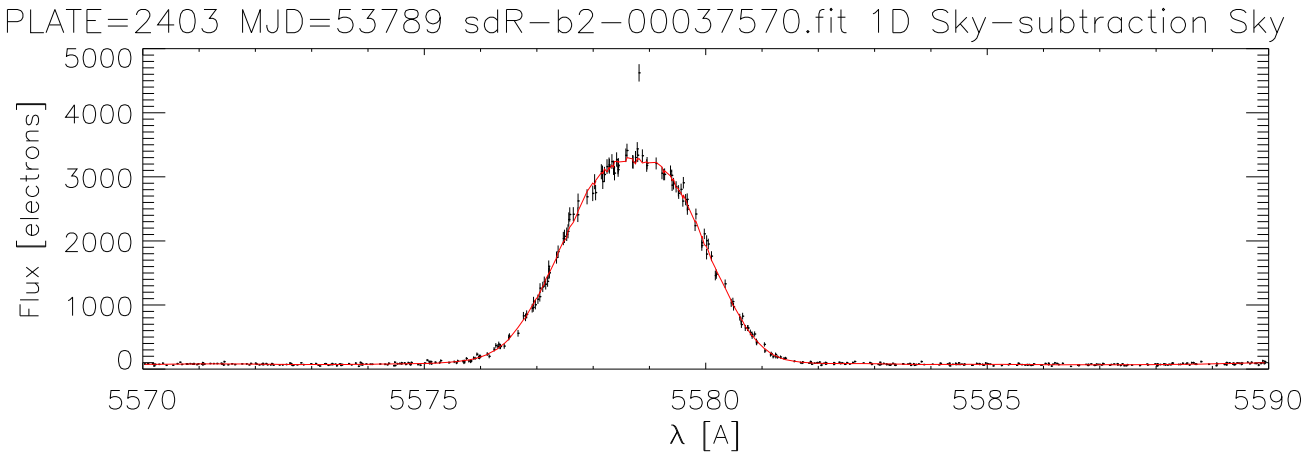

4046.5600
nfib1 29
nfib2 29
stdev 0.093
extra 0.53
4358.3300
nfib1 29
nfib2 29
stdev 0.049
extra 0.50
5460.9400
nfib1 29
nfib2 29
stdev 0.049
extra 0.51
5577.3390
nfib1 29
nfib2 29
stdev 0.017
extra 0.56
5889.9500
nfib1 29
nfib2 29
stdev 0.033
extra 0.63
5895.9240
nfib1 29
nfib2 29
stdev 0.030
extra 0.61
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

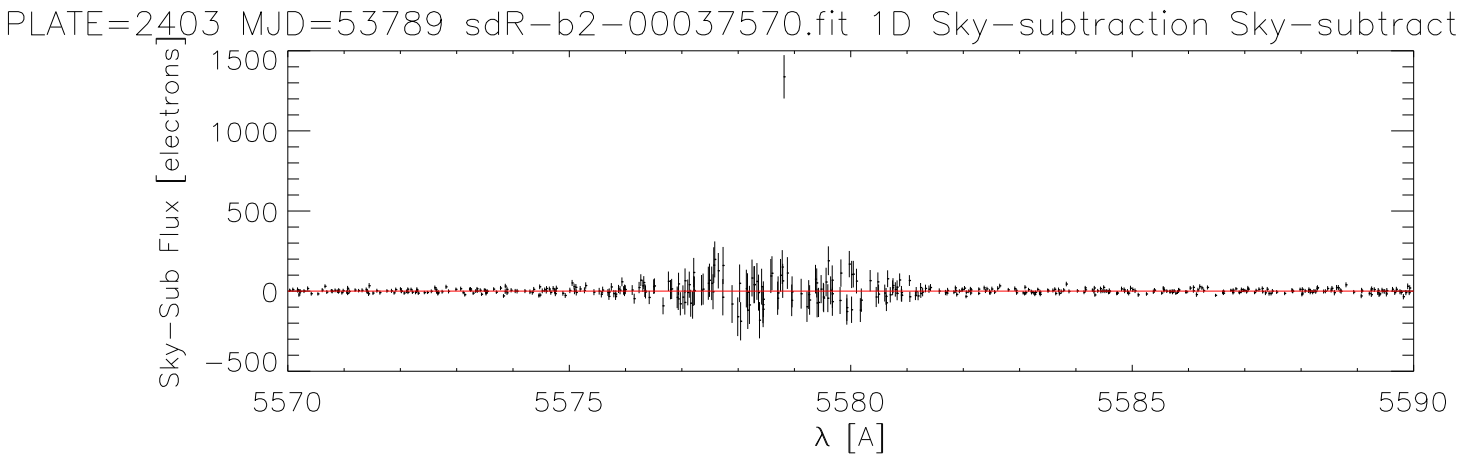

sky shift, pixels
0.60
0.55
0.50
0.45
3500
4000
4500
5000
5500
6000
6500

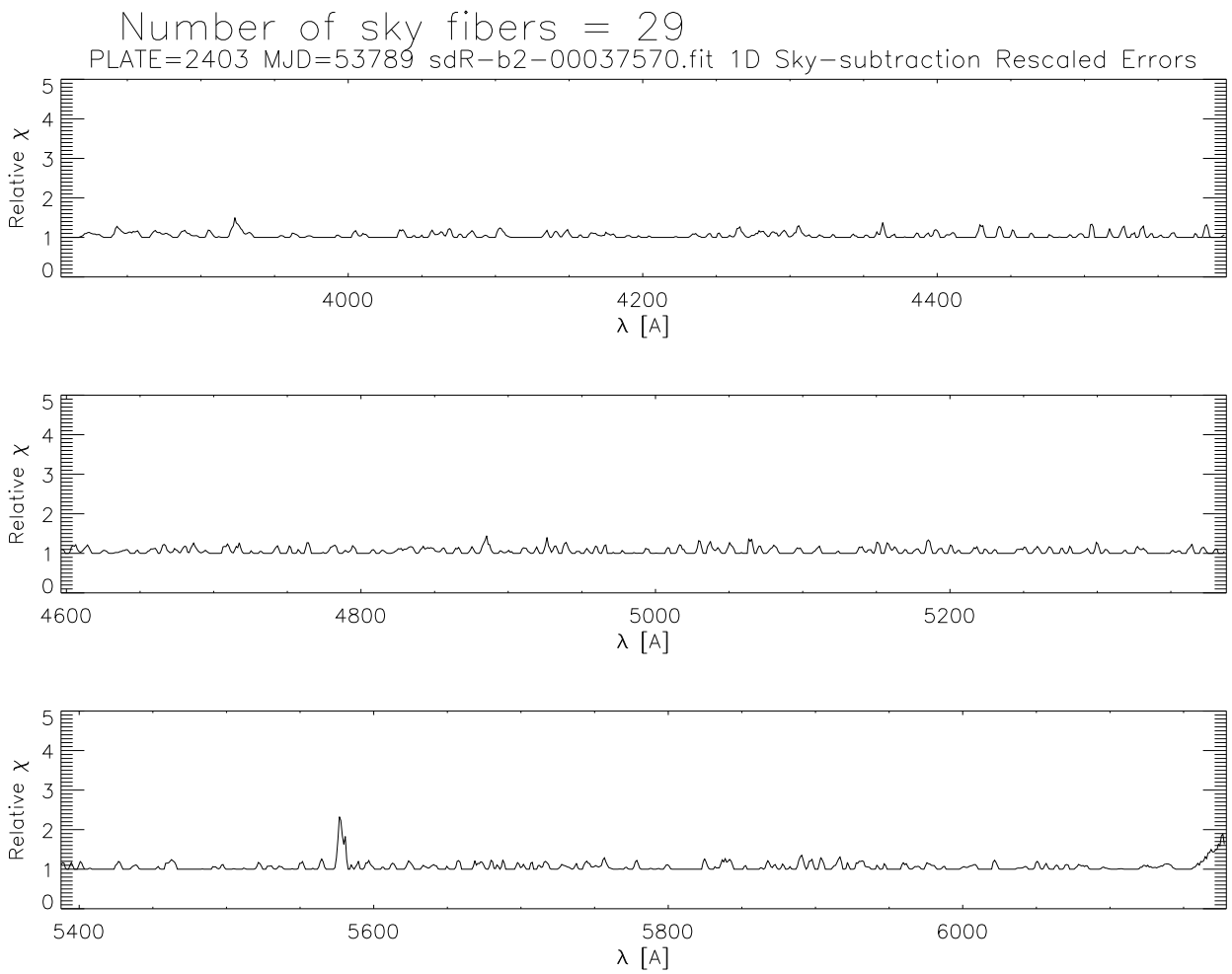

PLATE=2403 MJD=53789 Smooth superflat for sdR-b2-00037570.fit
1.5
1.0
0.5
0.0
1.01
1.00
0.99
0.98
0.97
4000
4500
5000
5500
6000
Wavelength (Å)

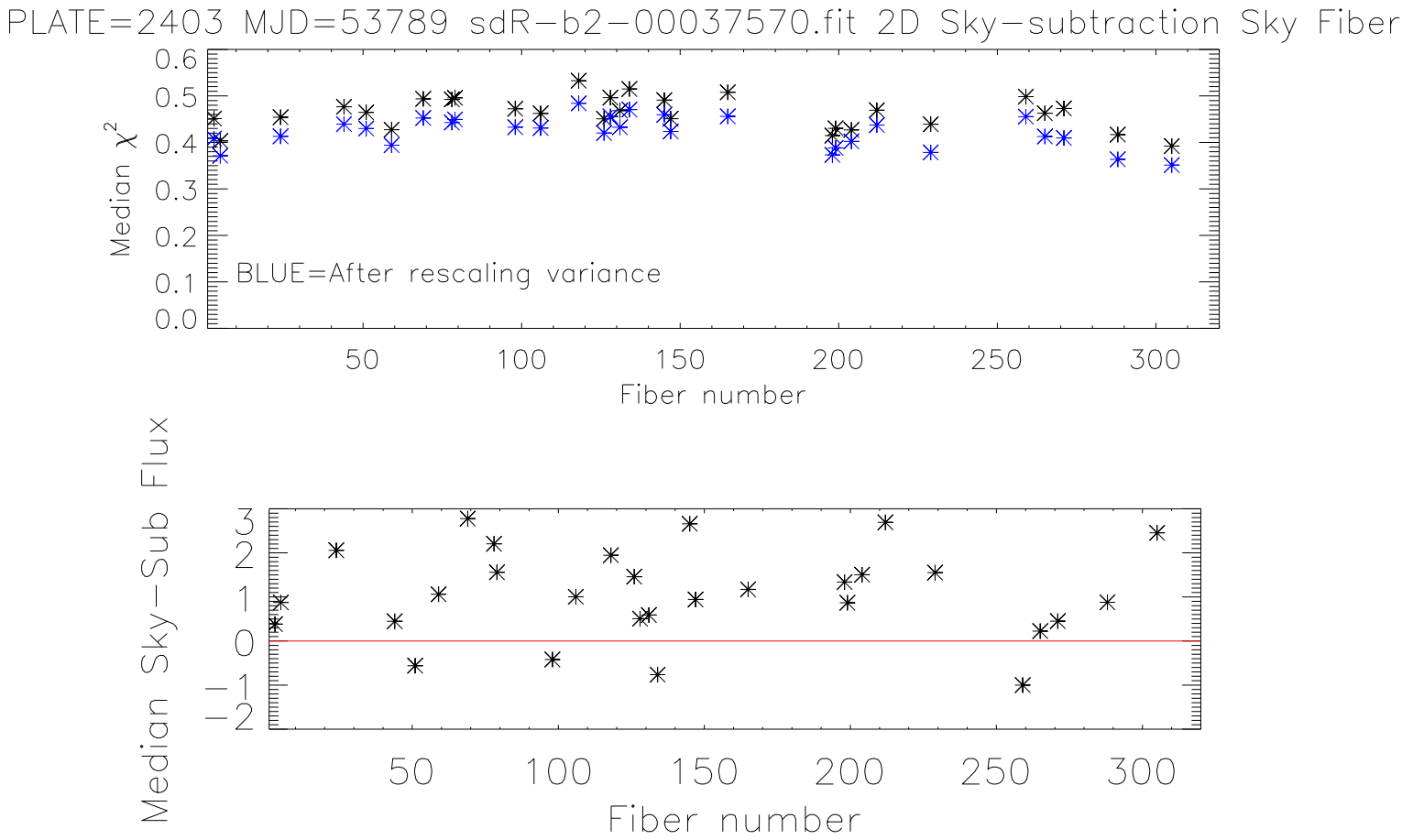
es= −0.0000

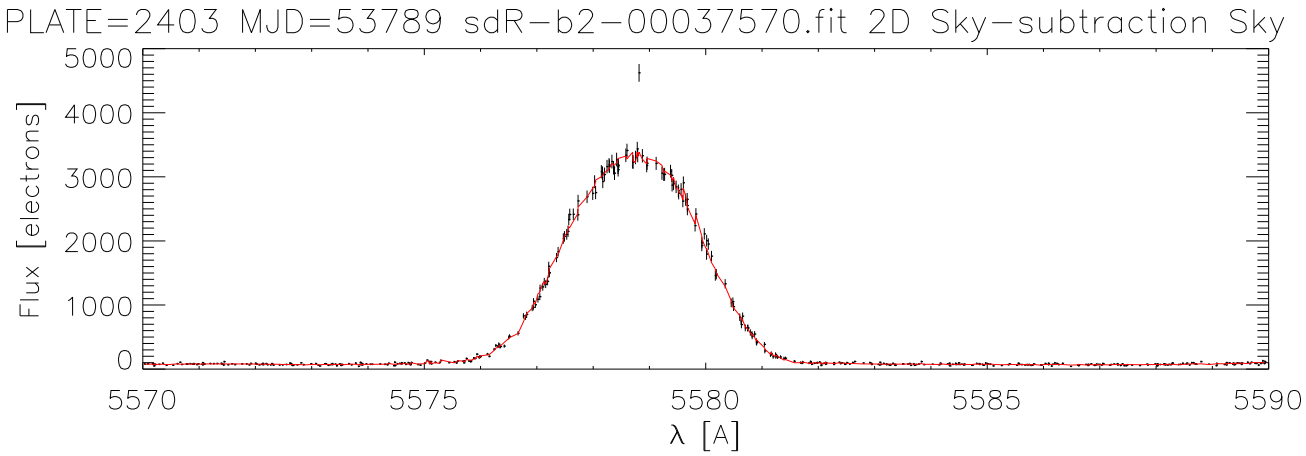

PLATE=2403 MJD=53789 sdR-b2-00037570.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

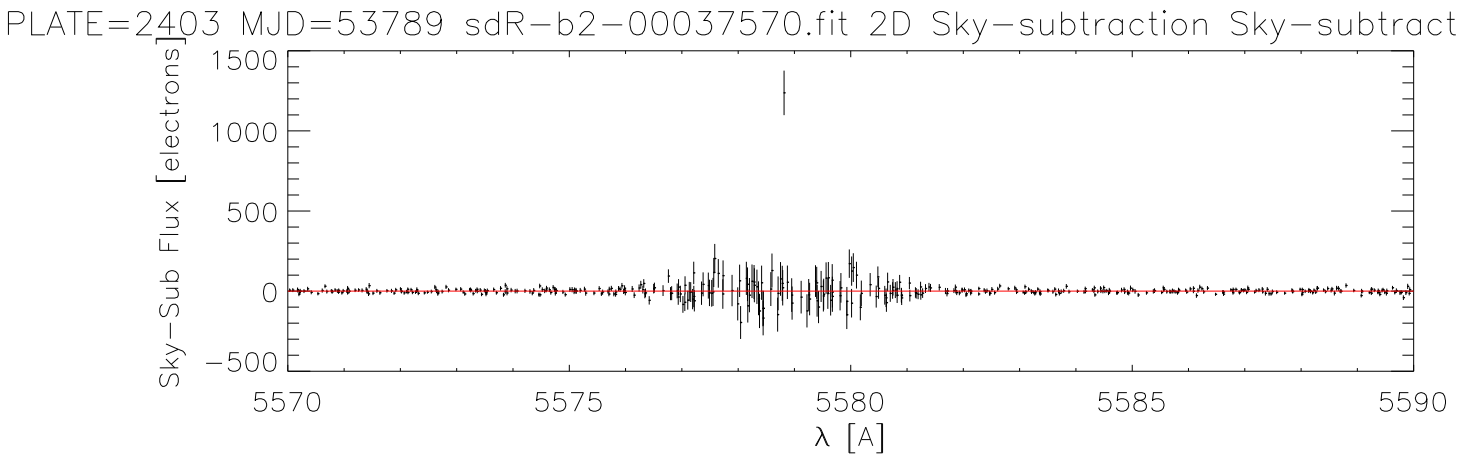

PLATE=2403 MJD=53789 sdR-b2-00037570.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

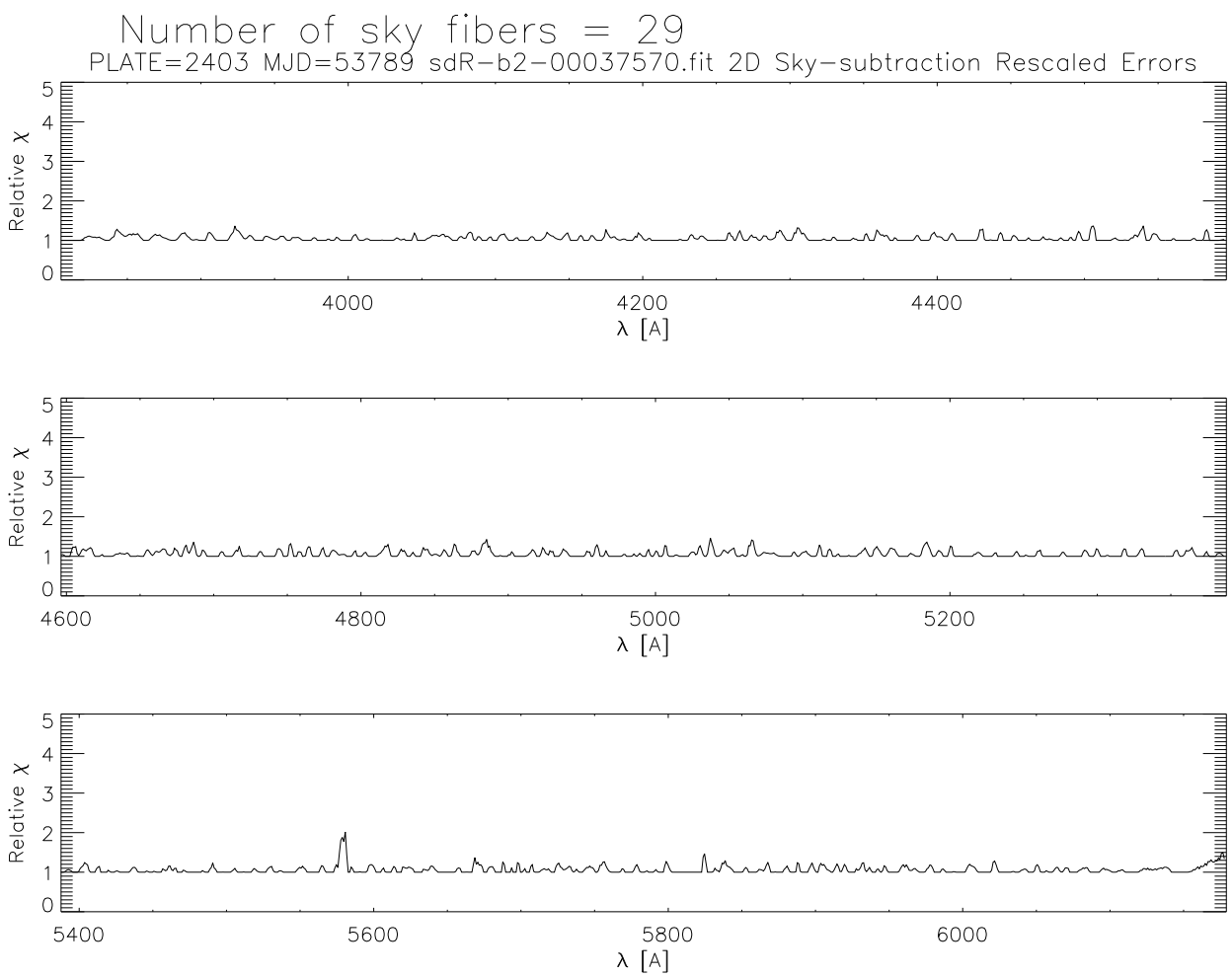

PLATE=2403 MJD=53789 sdR-b2-00037570.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
5570
5575
5580
5585
5590
λ [A]

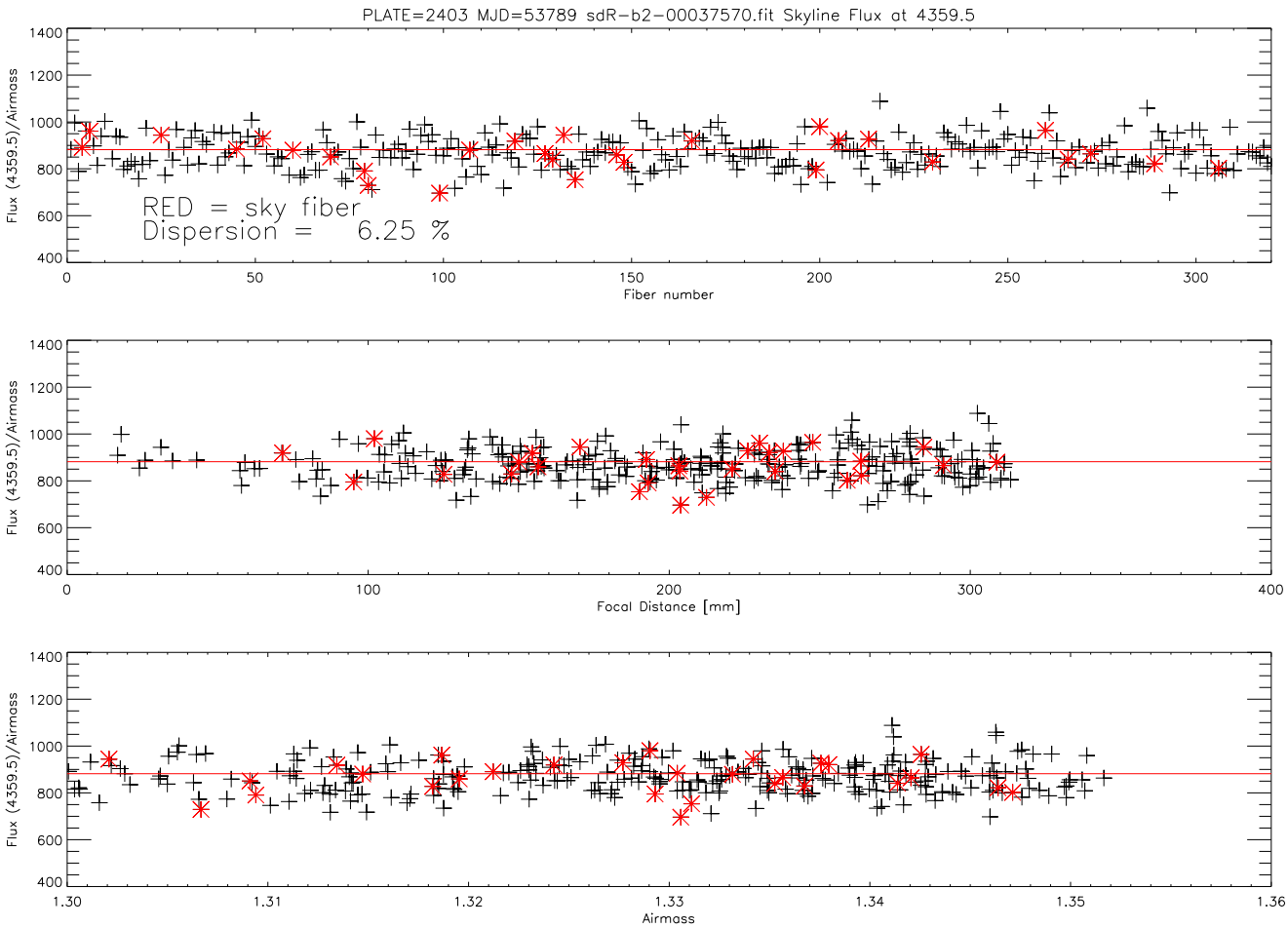

Number of sky fibers = 29
PLATE=2403 MJD=53789 sdR-b2-00037570.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

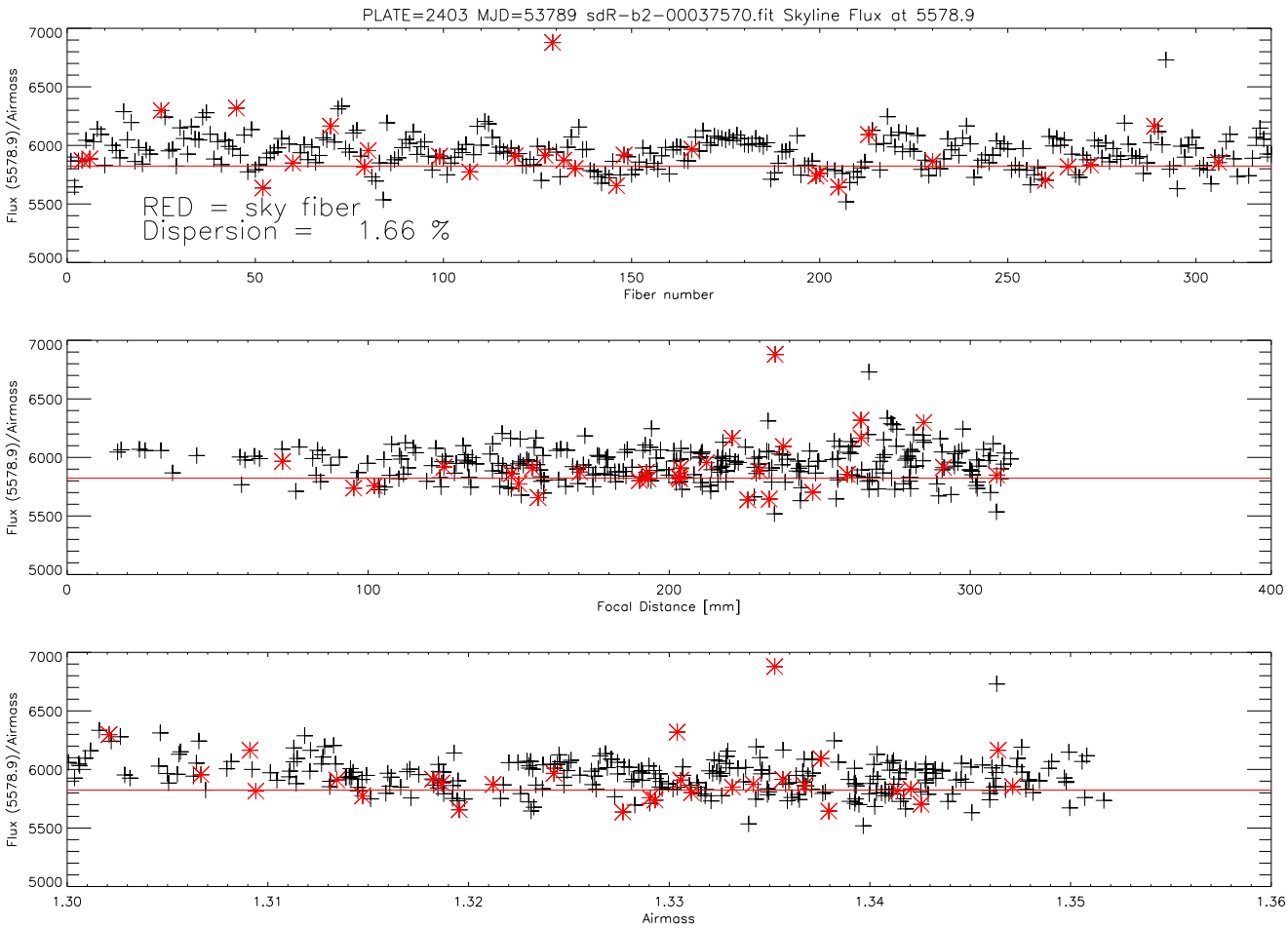

PLATE=2403 MJD=53789 sdR-b2-00037570.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

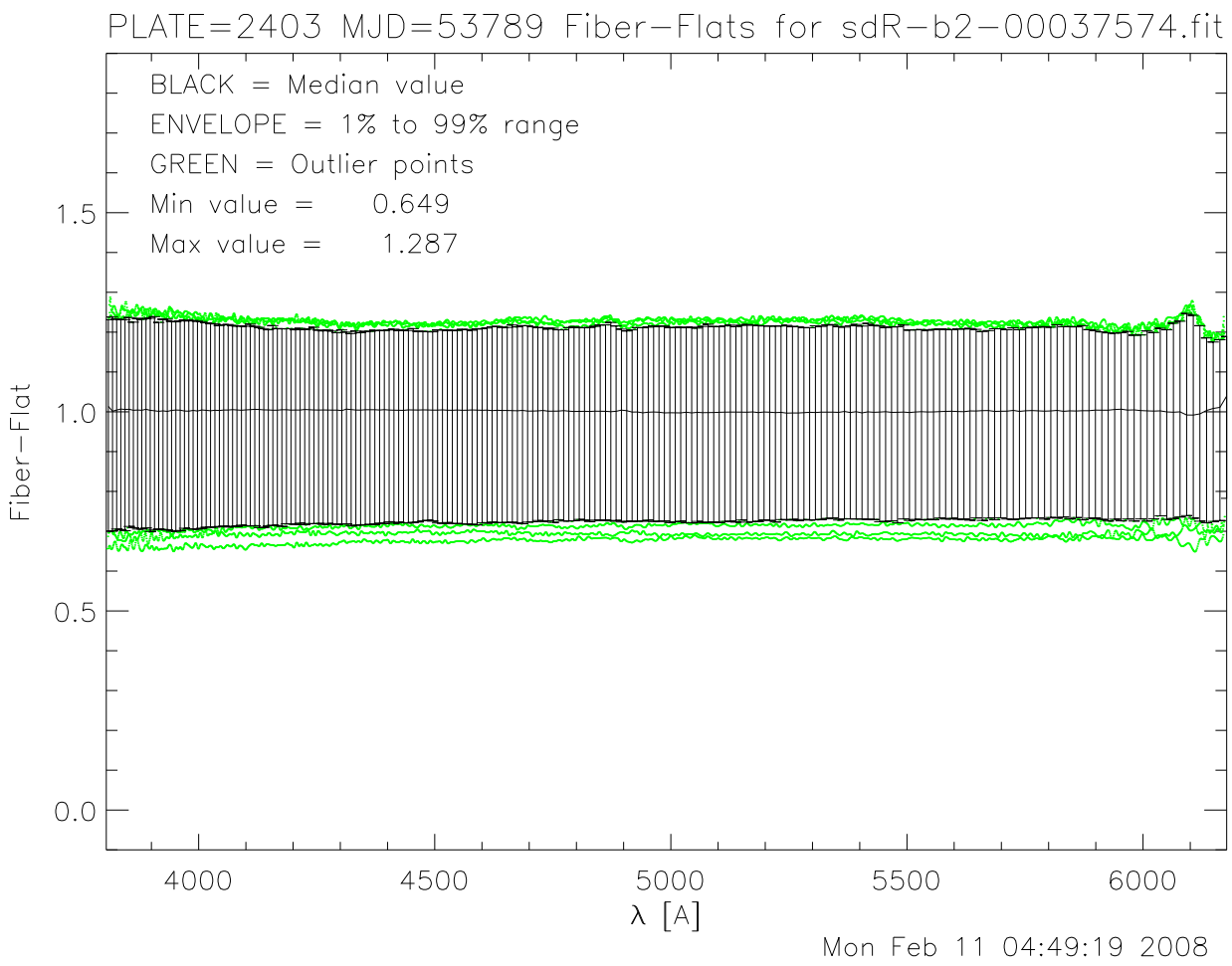

PLATE=2403 MJD=53789 sdR-b2-00037570.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

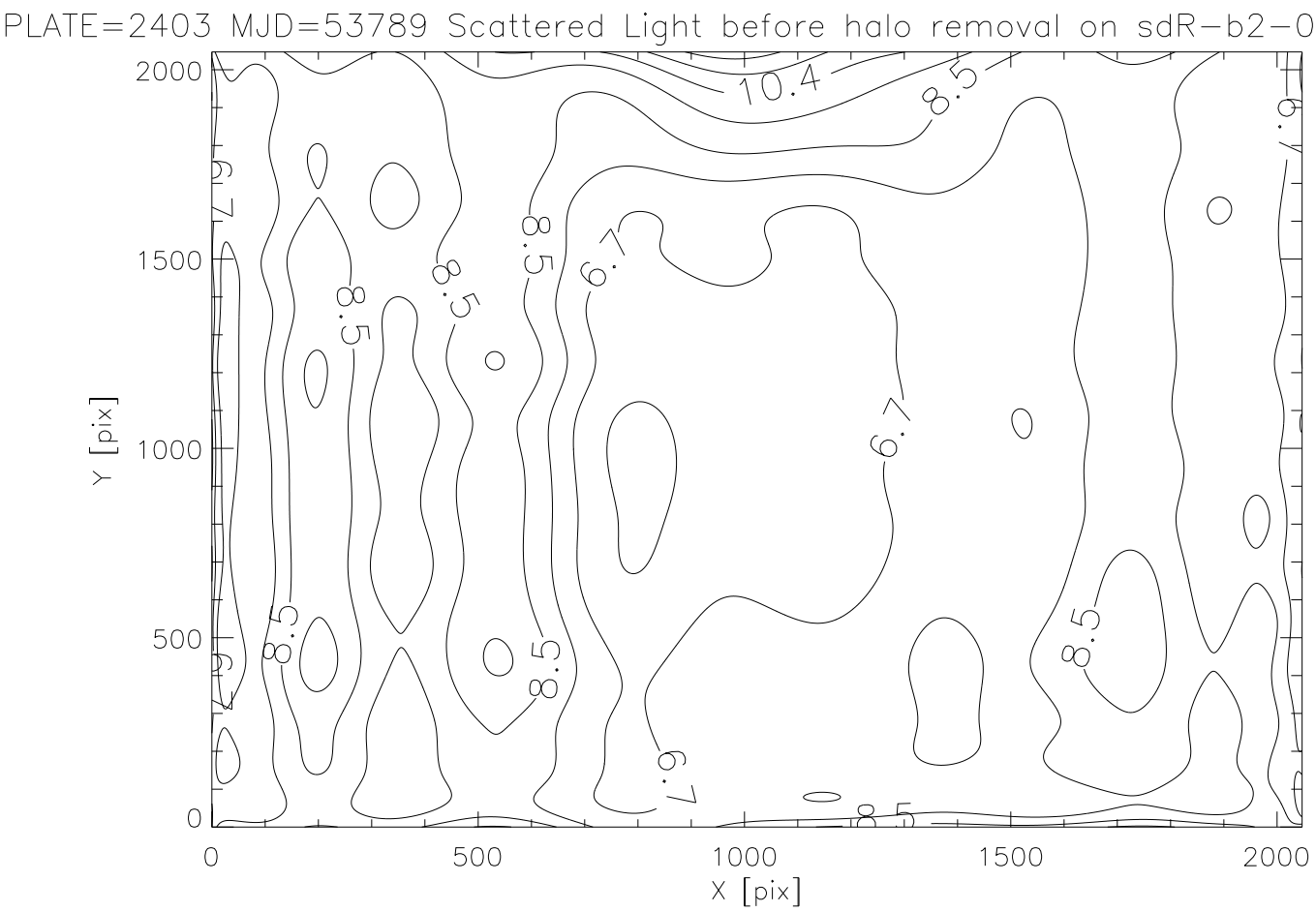

PLATE=2403 MJD=53789 sdR-b2-00037570.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
5570
5575
5580
5585
5590
λ [A]

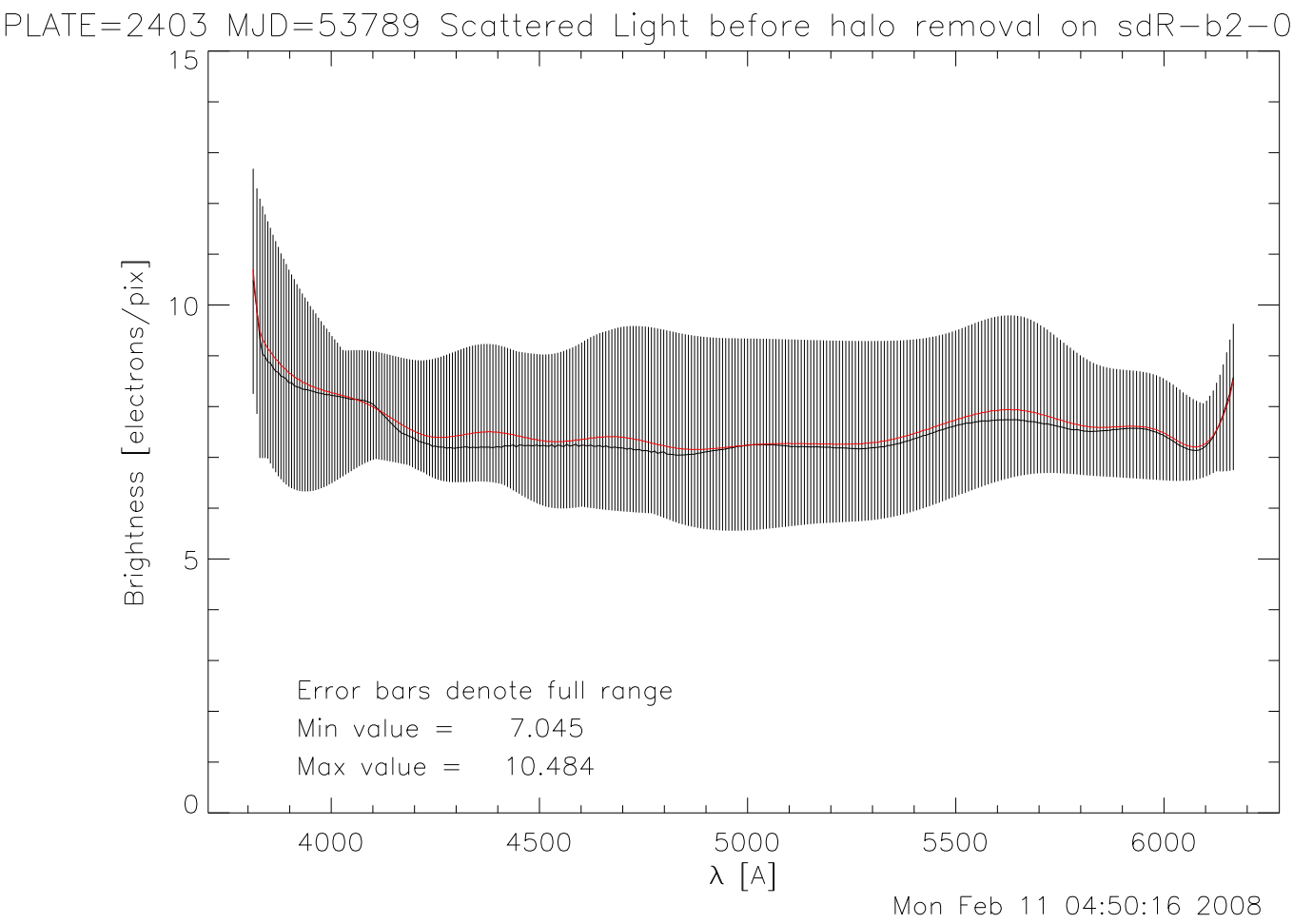

Number of sky fibers = 29
PLATE=2403 MJD=53789 sdR-b2-00037570.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

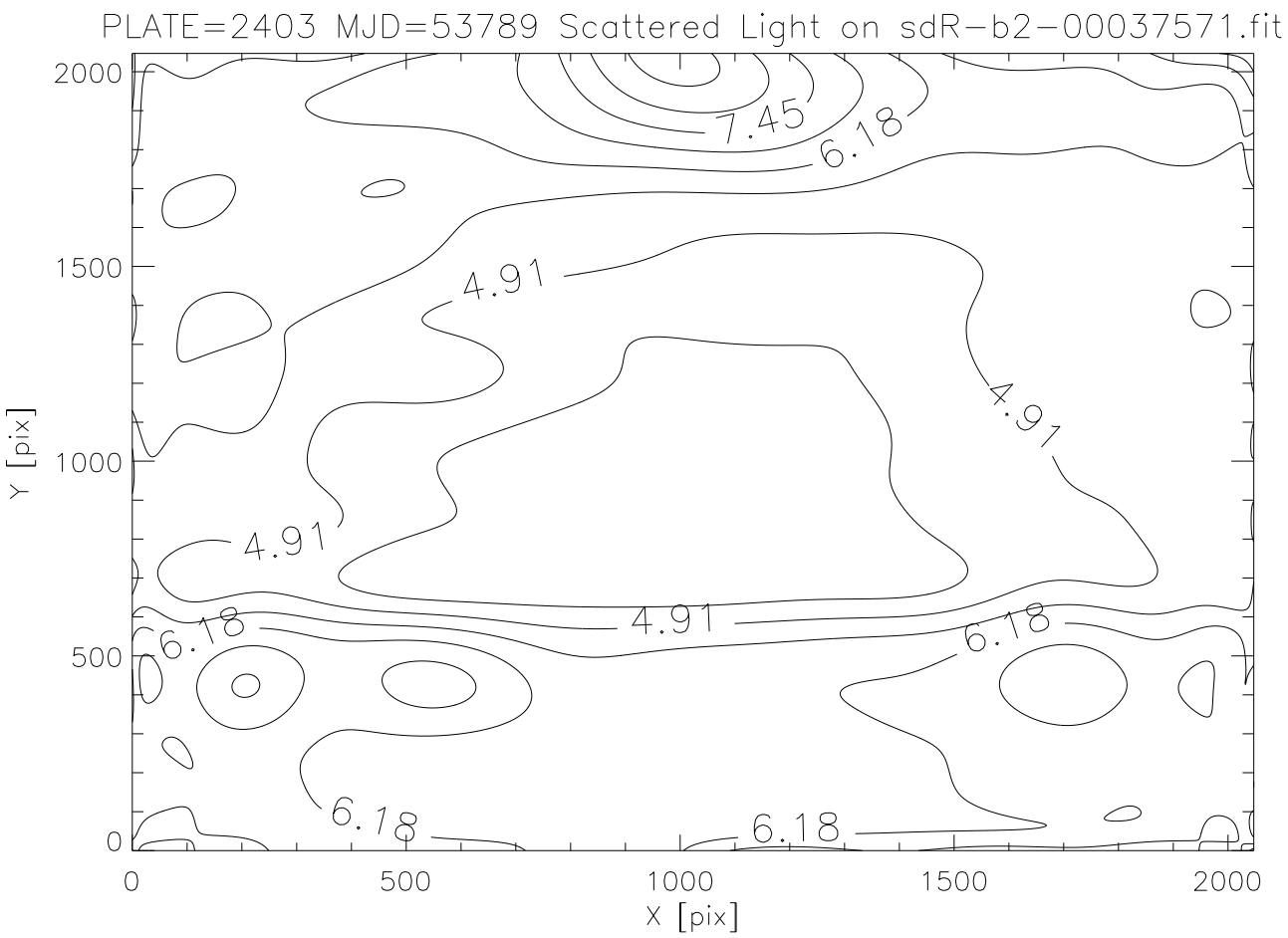

PLATE=2403 MJD=53789 sdR-b2-00037570.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 6.25 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

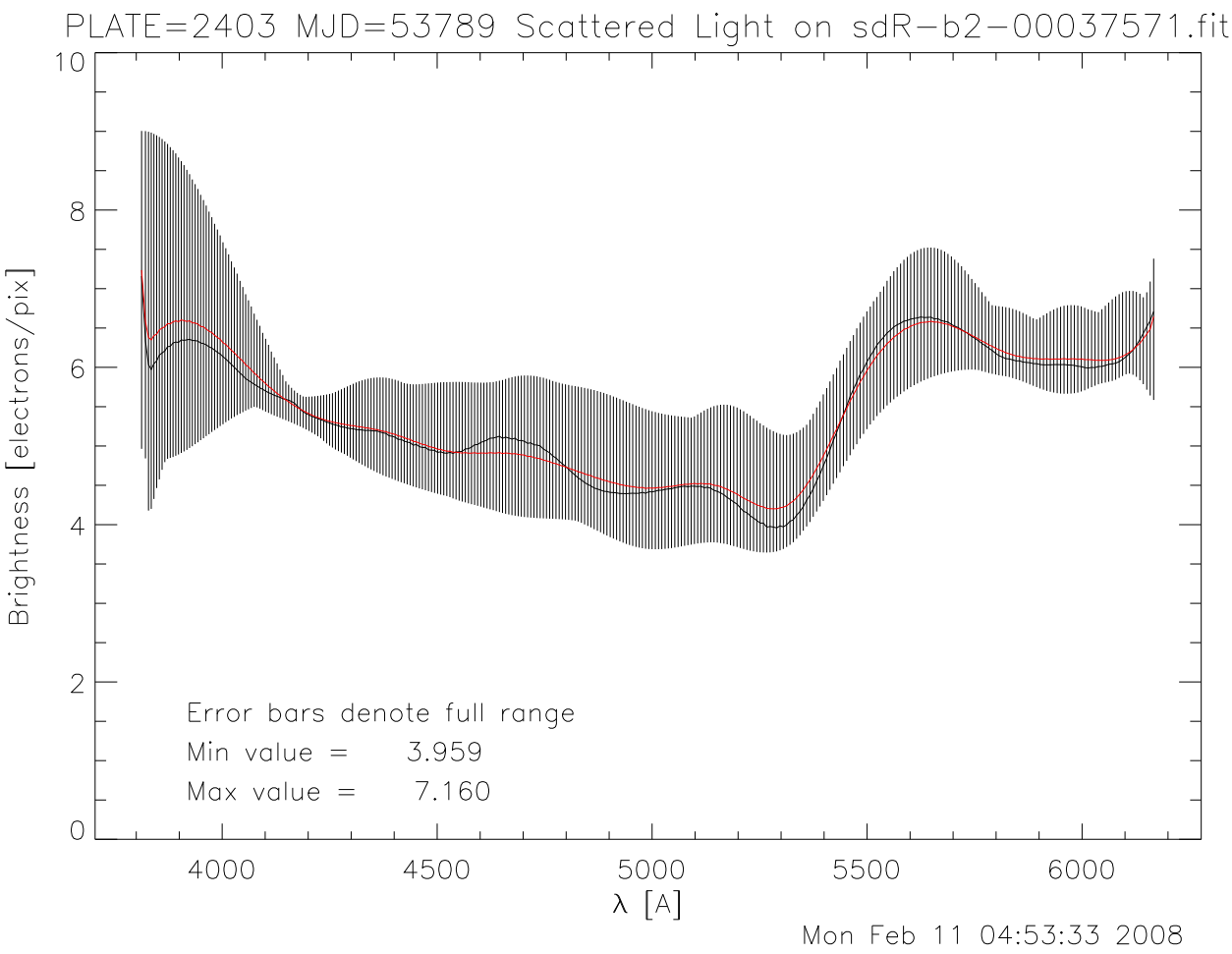

PLATE=2403 MJD=53789 sdR-b2-00037570.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.66 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

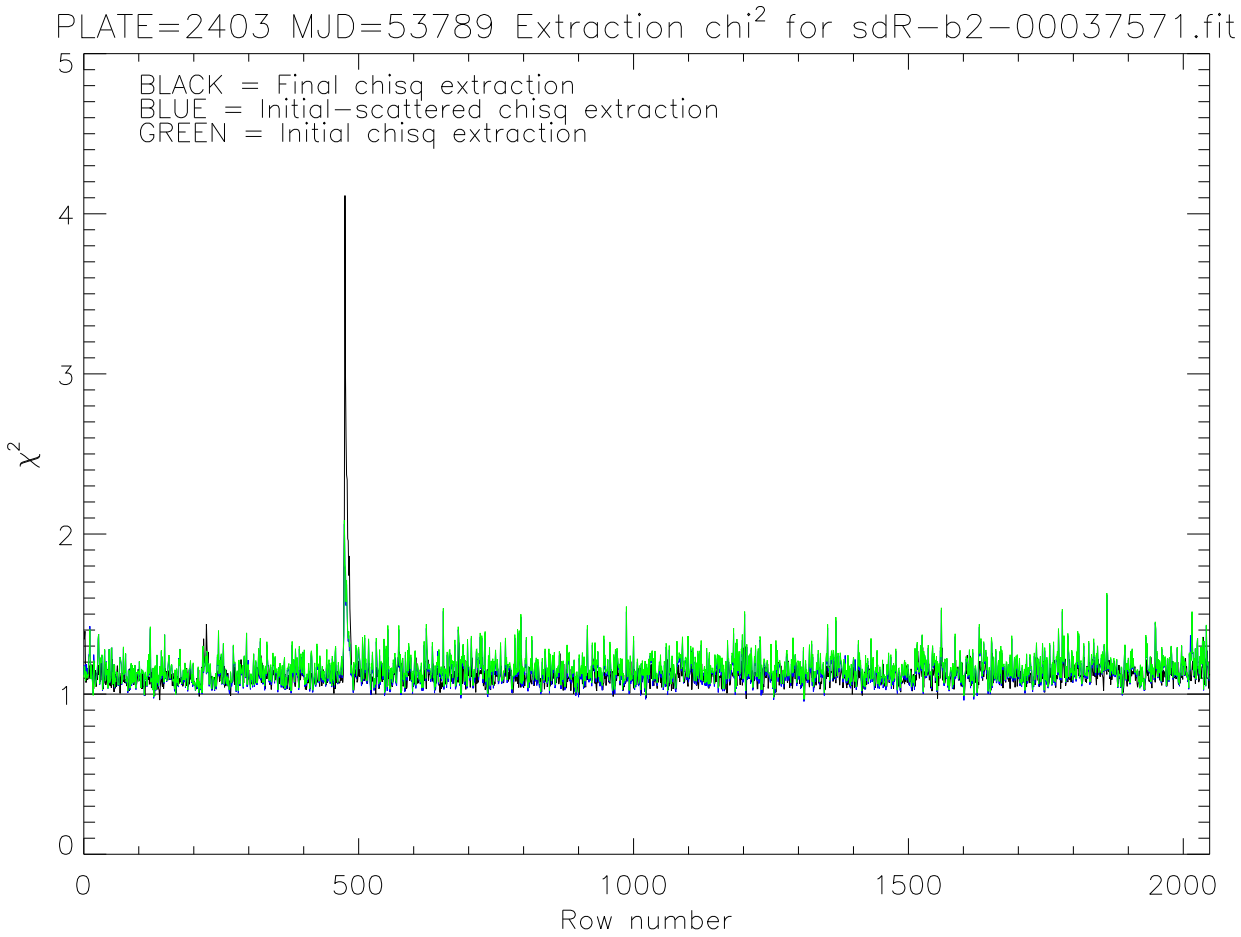

PLATE=2403 MJD=53789 Fiber−Flats for sdR−b2−00037574.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.649
Max value = 1.287
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 04:49:19 2008

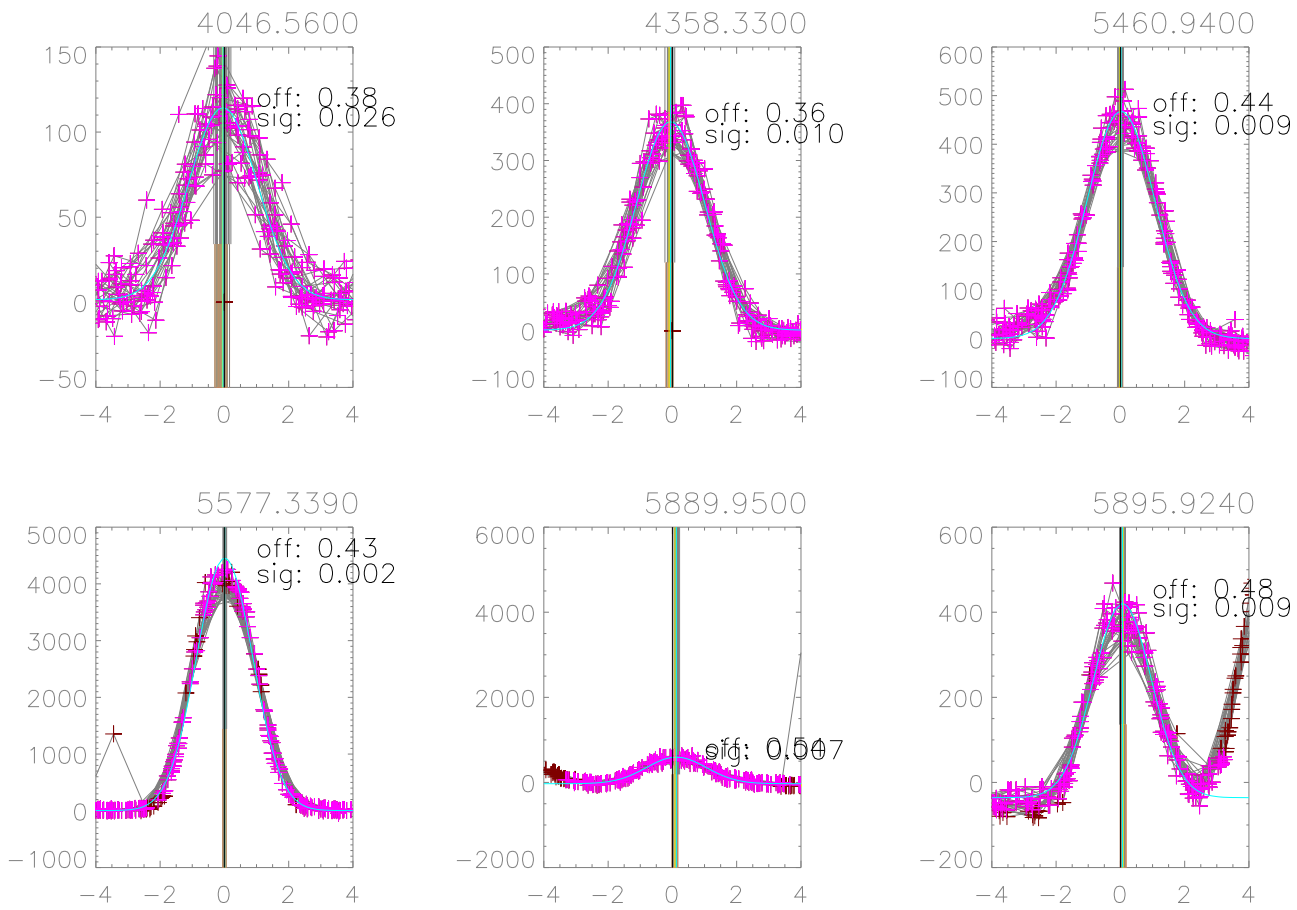

PLATE=2403 MJD=53789 Scattered Light before halo removal on sdR-b2-00037571.f
Y [pix]
X [pix]
0
500
1000
1500
2000
10.4
8.5
6.7

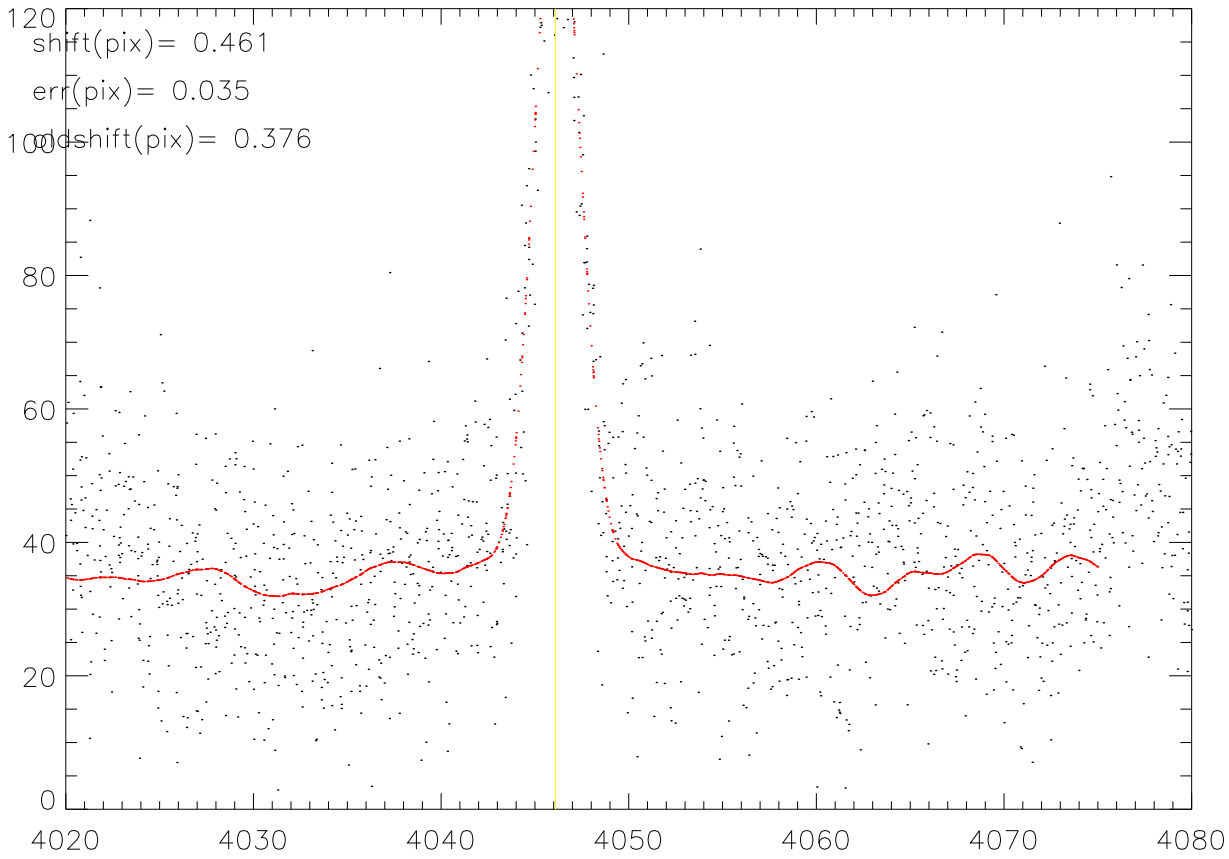

PLATE=2403 MJD=53789 Scattered Light before halo removal on sdR−b2−00037571.f
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 7.045
Max value = 10.484
Mon Feb 11 04:50:16 2008

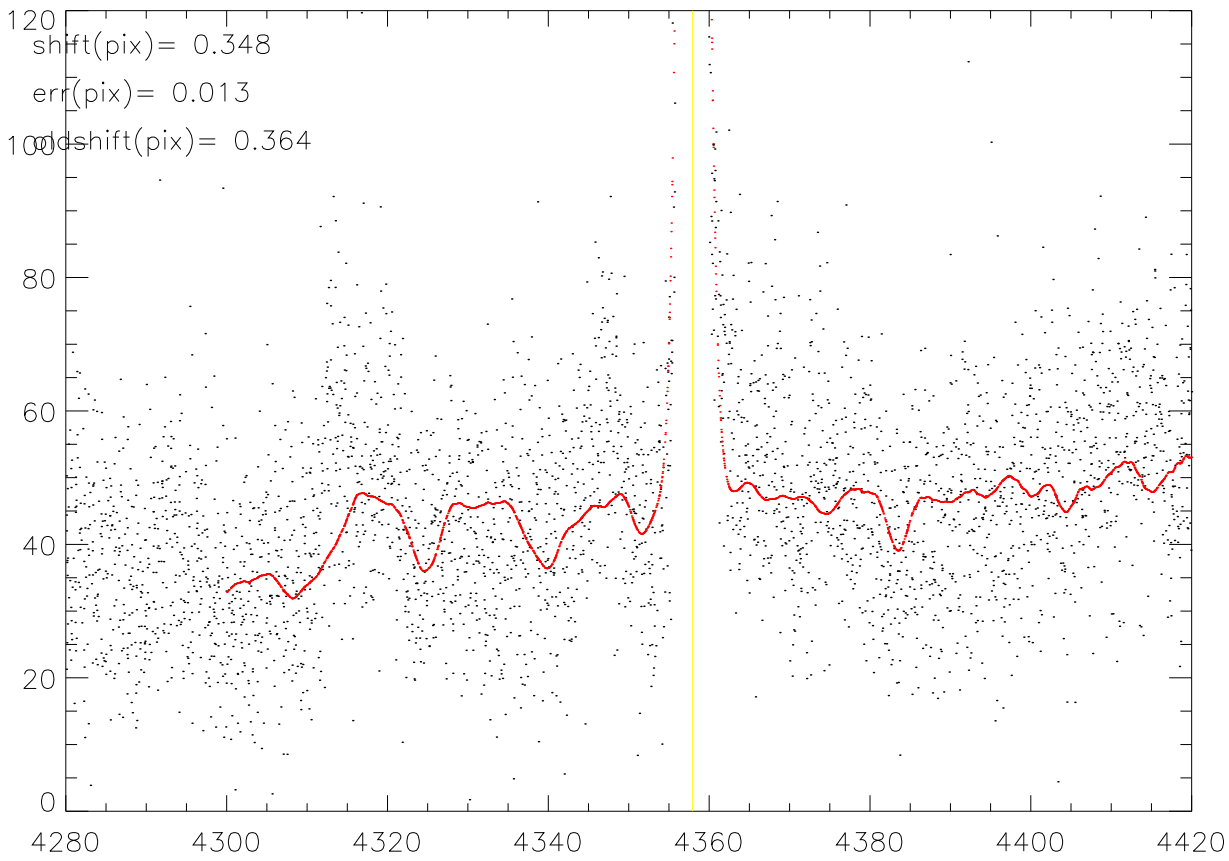

PLATE=2403 MJD=53789 Scattered Light on sdR-b2-00037571.fit
7.45
6.18
4.91
4.91
4.91
4.91
6.18
6.18
6.18
6.18
Y [pix]
X [pix]
0
500
1000
1500
2000

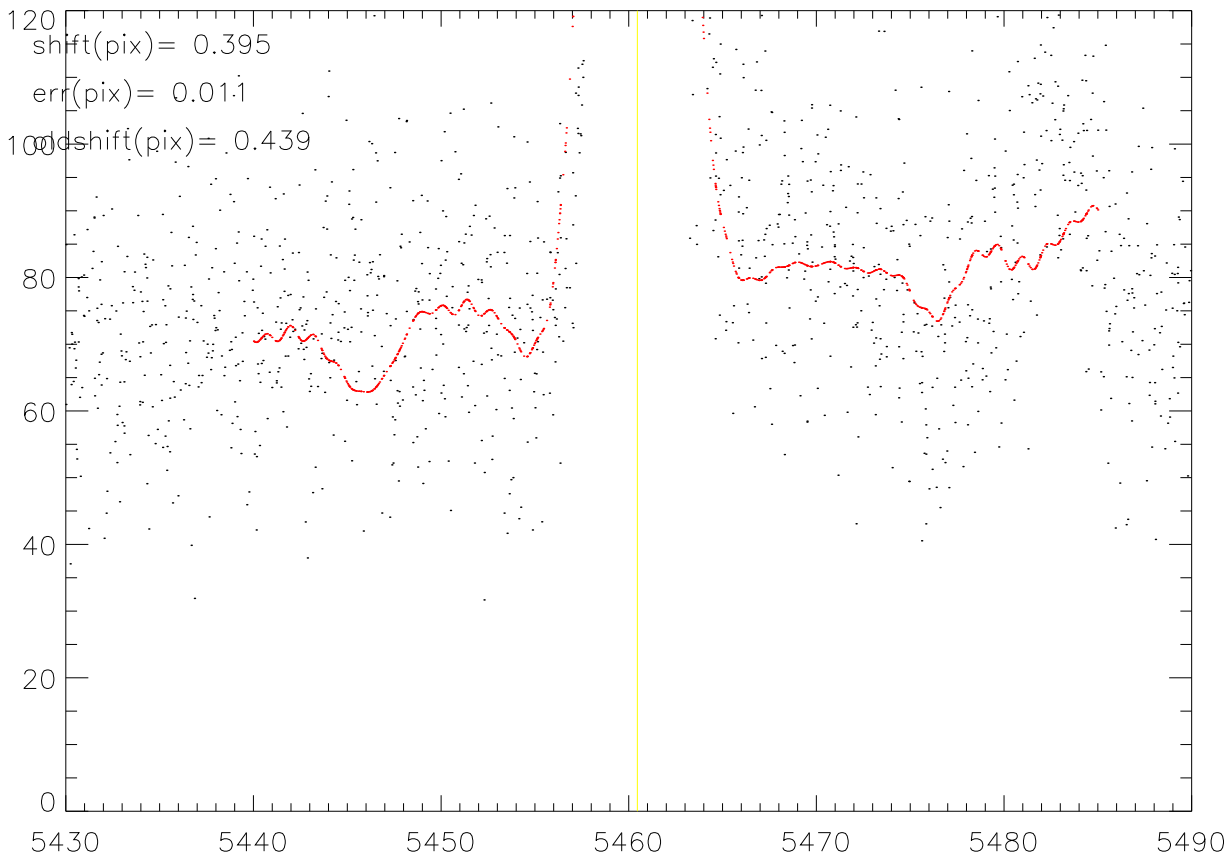

PLATE=2403 MJD=53789 Scattered Light on sdR-b2-00037571.fit
Brightness [electrons/pix]
10
8
6
4
2
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 3.959
Max value = 7.160
Mon Feb 11 04:53:33 2008

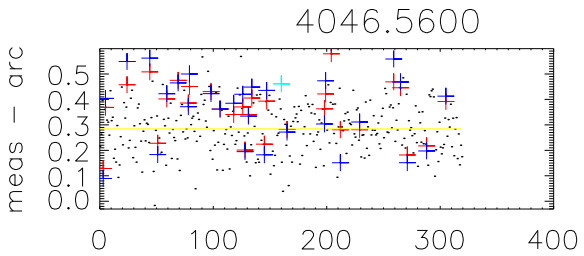

PLATE=2403 MJD=53789 Extraction chi^2 for sdR-b2-00037571.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

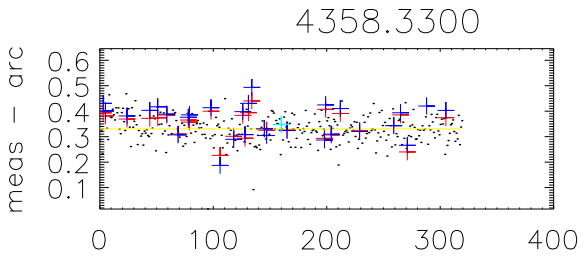

4046.5600
off: 0.38
sig: 0.026
4358.3300
off: 0.36
sig: 0.010
5460.9400
off: 0.44
sig: 0.009
5577.3390
off: 0.43
sig: 0.002
5889.9500
5895.9240
off: 0.48
sig: 0.009

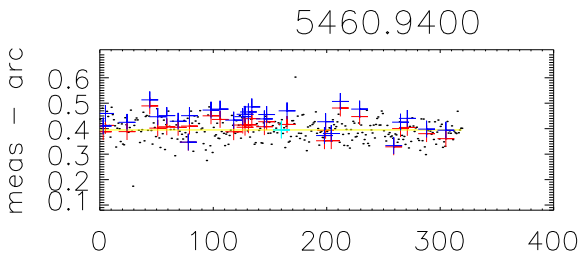

shift(pix)= 0.461
err(pix)= 0.035
oldshift(pix)= 0.376
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

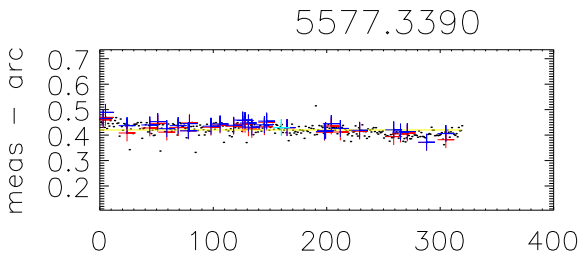

shift(pix)= 0.348
err(pix)= 0.013
oldshift(pix)= 0.364
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

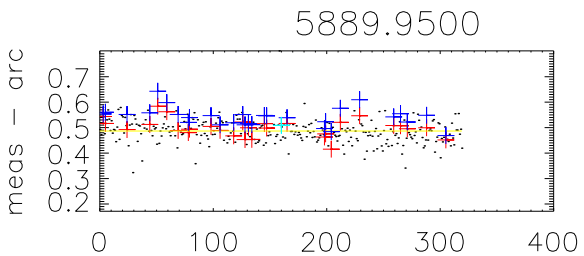

shift(pix)= 0.395
err(pix)= 0.011
oldshift(pix)= 0.439
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

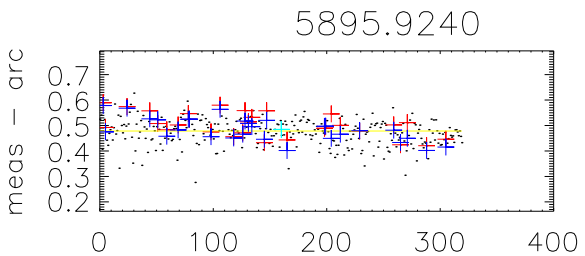

4046.5600
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

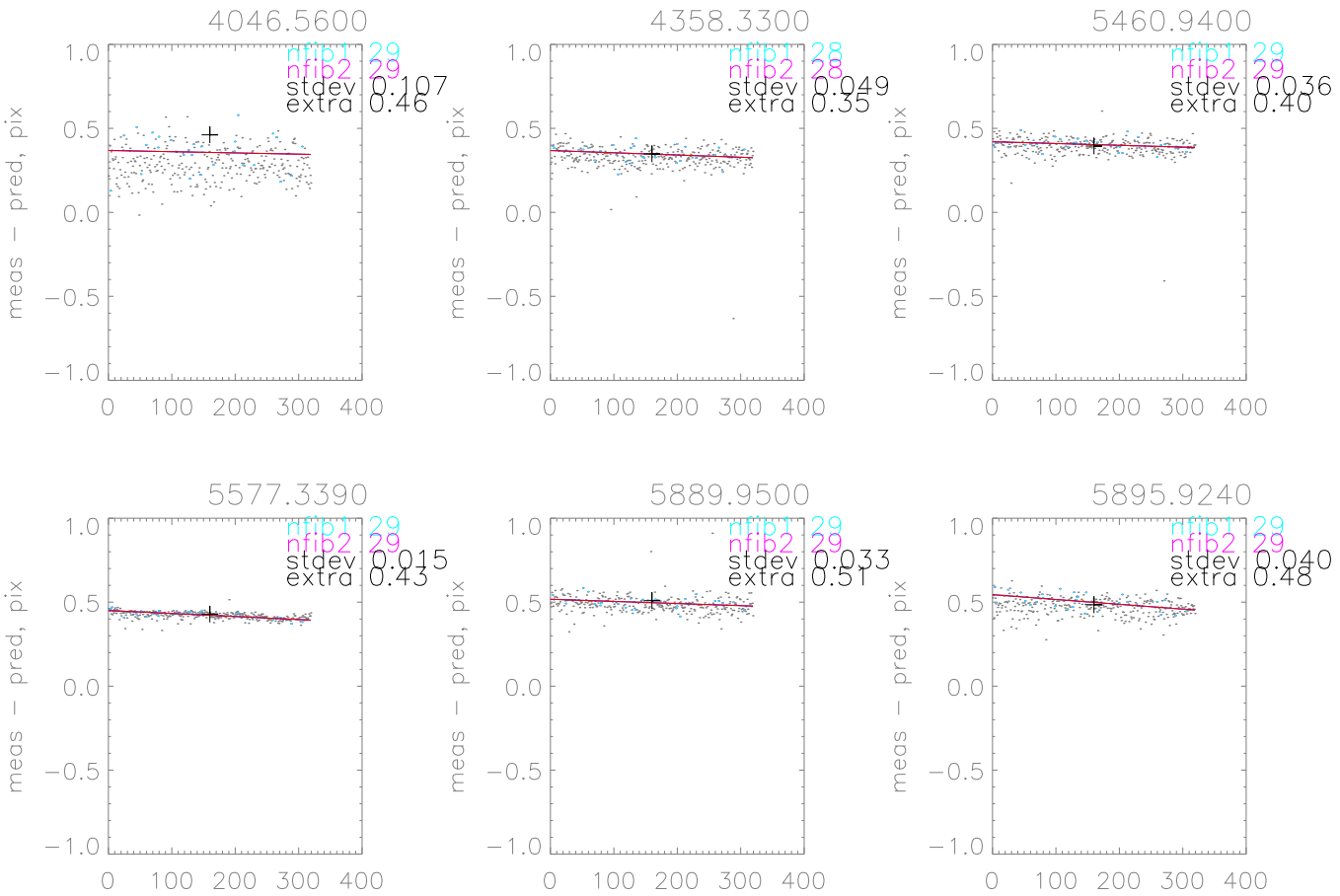

4358.3300
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

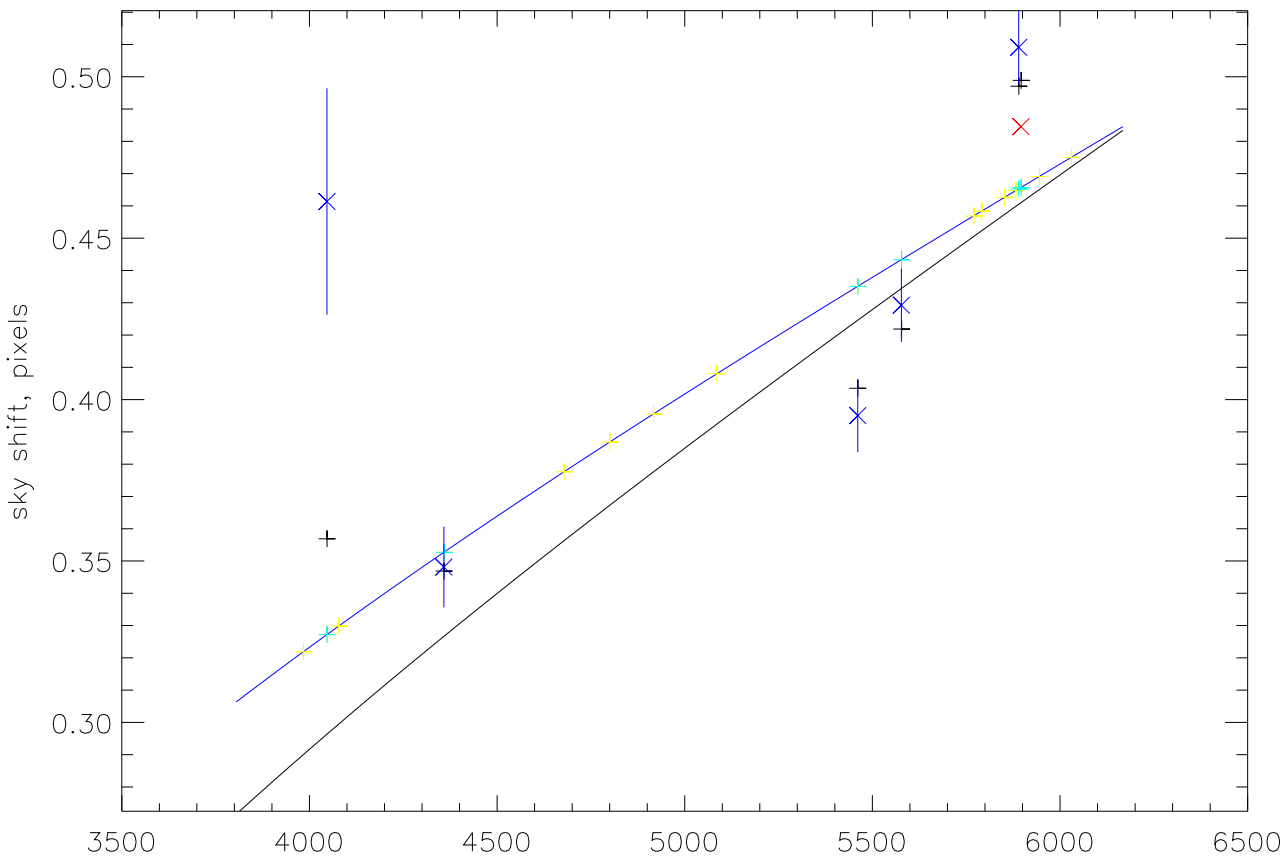

5460.9400
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

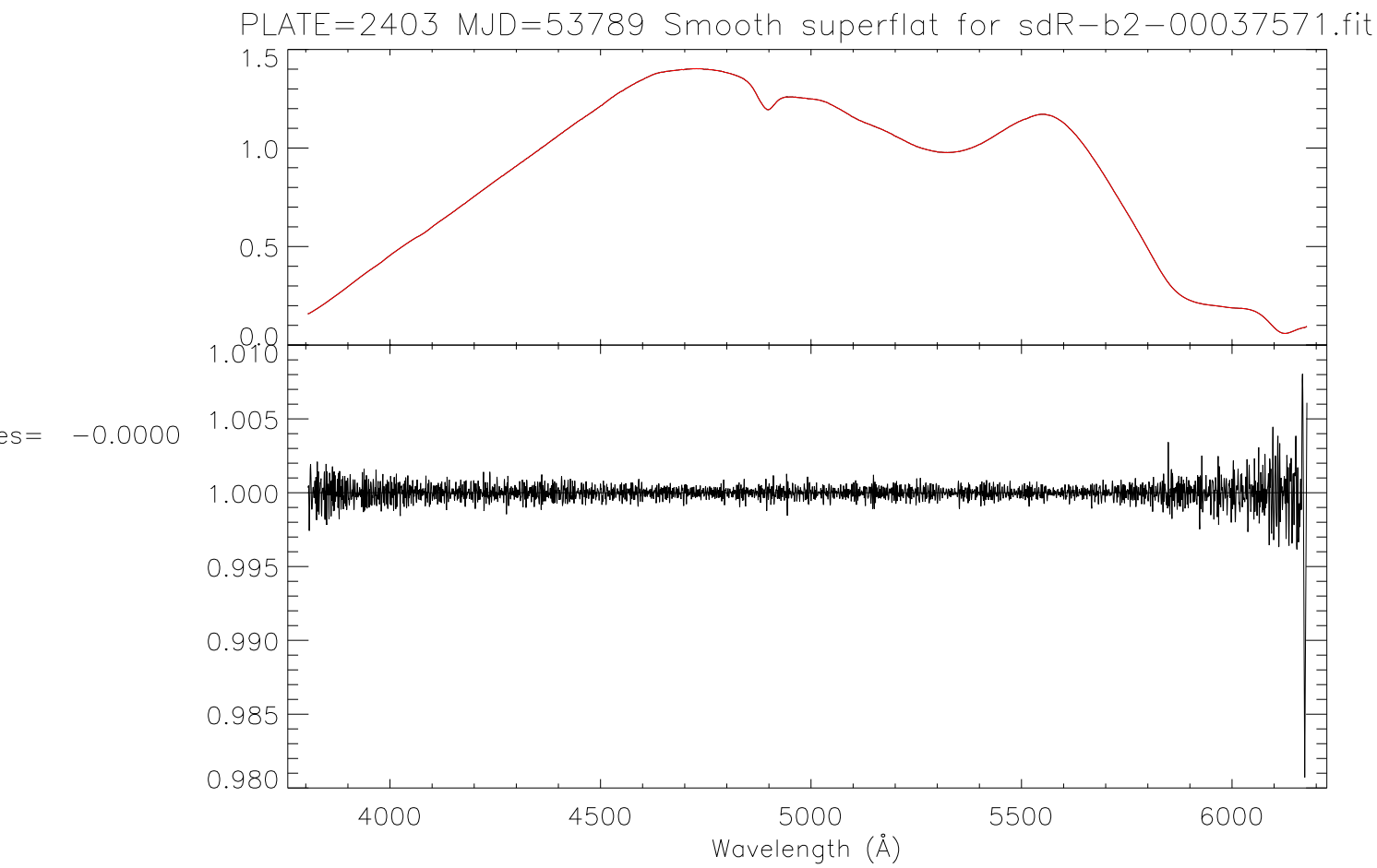

5577.3390
meas − arc
0.2
0.3
0.4
0.5
0.6
0.7
0
100
200
300
400

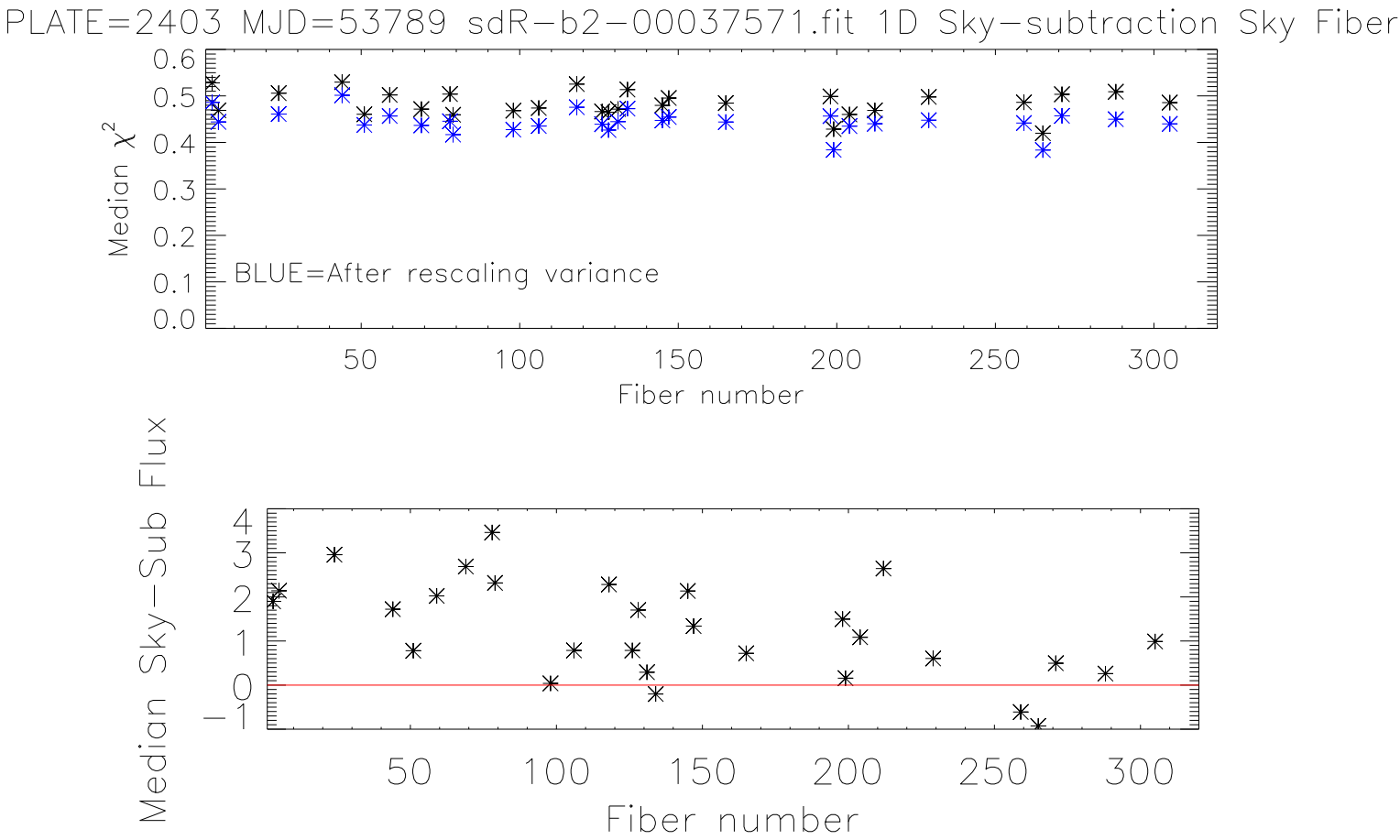

5889.9500
meas − arc
0.2
0.3
0.4
0.5
0.6
0.7
0
100
200
300
400

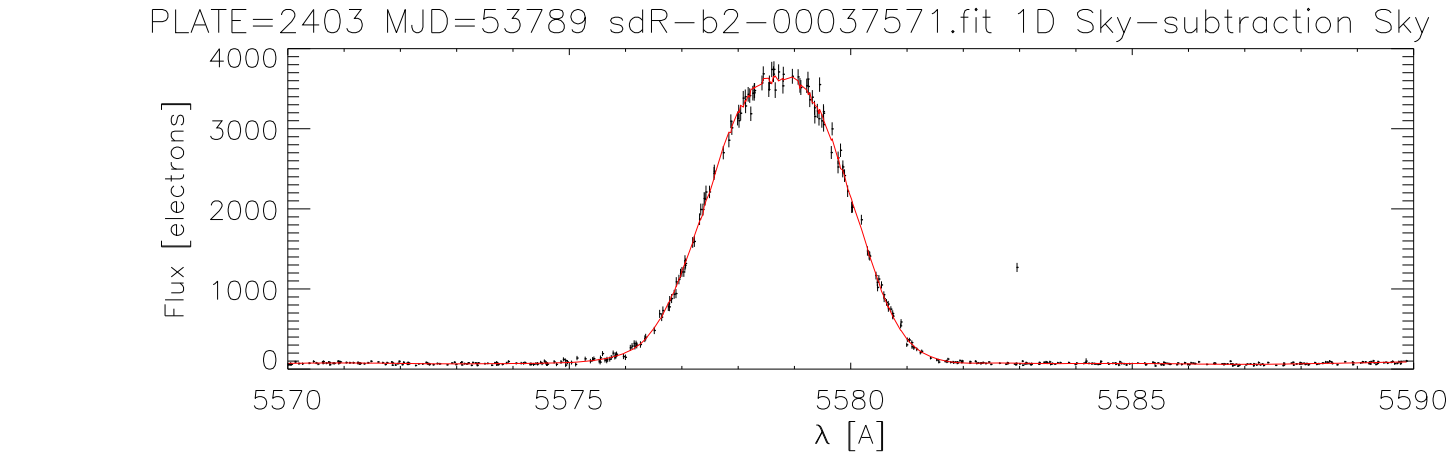

5895.9240
meas − arc
0.2
0.3
0.4
0.5
0.6
0.7
0
100
200
300
400

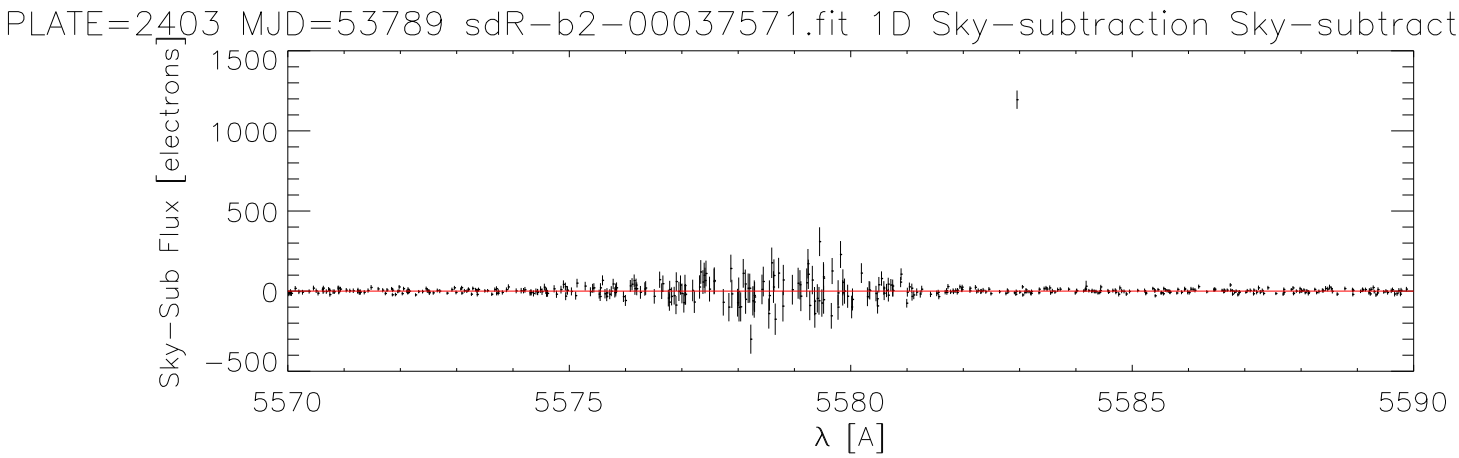

4046.5600
nfib1 29
nfib2 29
stdev 0.107
extra 0.46
4358.3300
nfib1 28
nfib2 28
stdev 0.049
extra 0.35
5460.9400
nfib1 29
nfib2 29
stdev 0.036
extra 0.40
5577.3390
nfib1 29
nfib2 29
stdev 0.015
extra 0.43
5889.9500
nfib1 29
nfib2 29
stdev 0.033
extra 0.51
5895.9240
nfib1 29
nfib2 29
stdev 0.040
extra 0.48
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

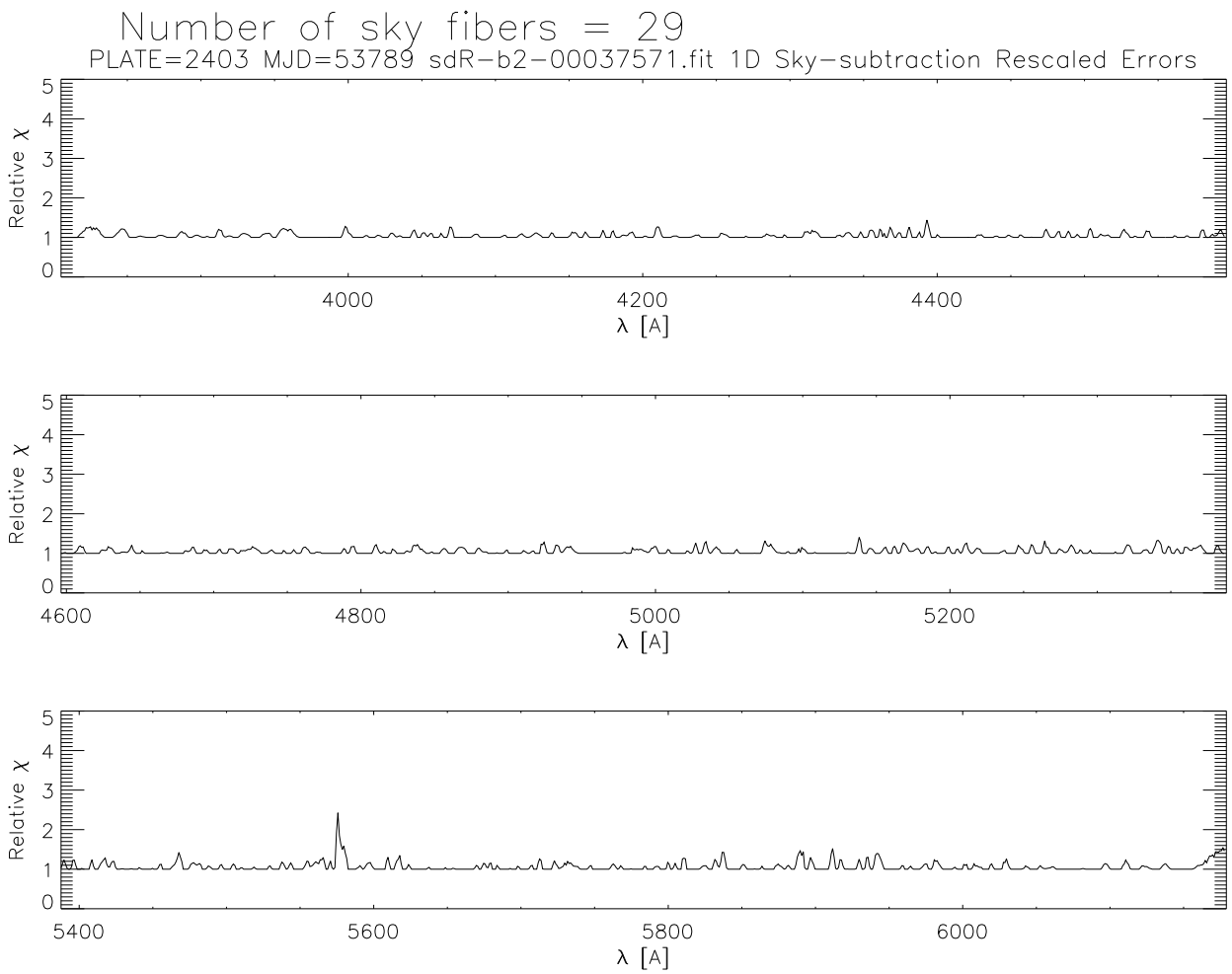

sky shift, pixels
0.50
0.45
0.40
0.35
0.30
3500
4000
4500
5000
5500
6000
6500

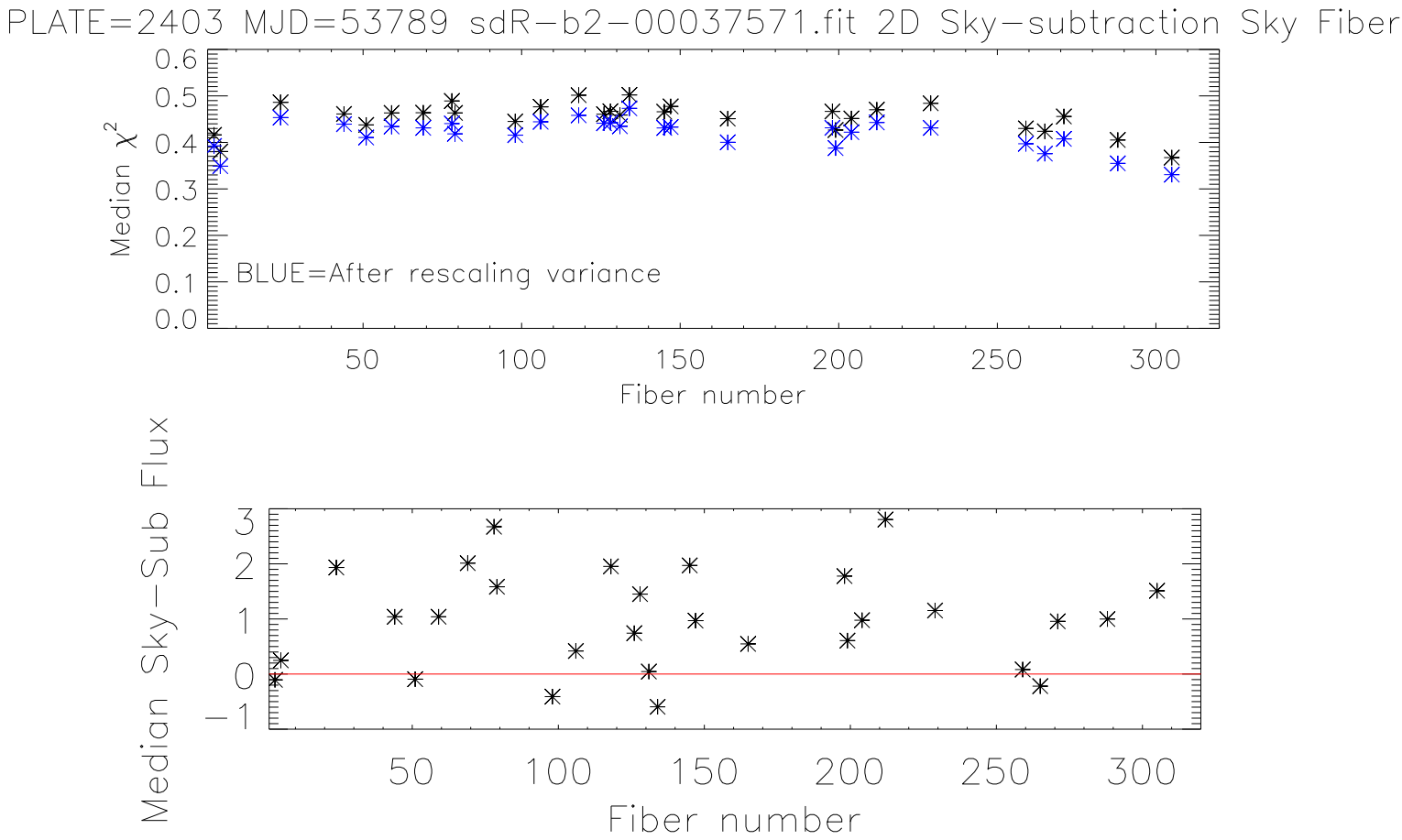

PLATE=2403 MJD=53789 Smooth superflat for sdR-b2-00037571.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
0.980
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

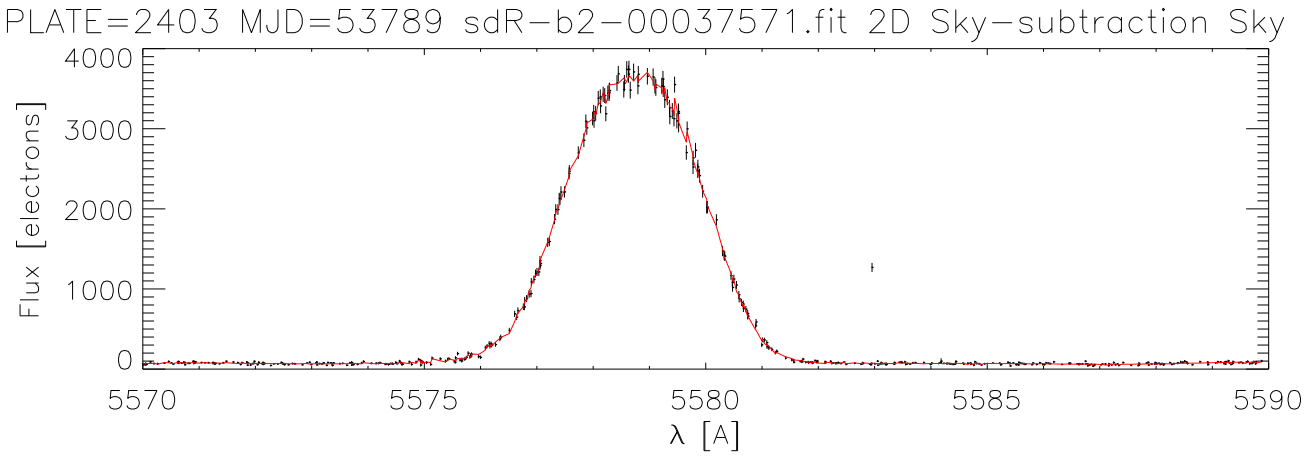

PLATE=2403 MJD=53789 sdR-b2-00037571.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

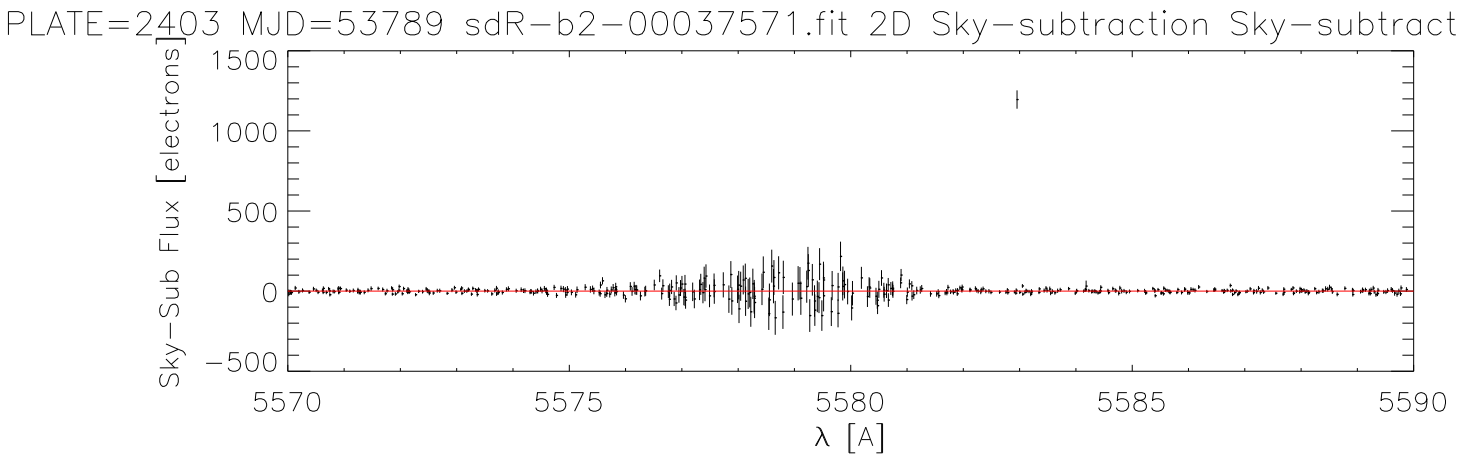

PLATE=2403 MJD=53789 sdR-b2-00037571.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

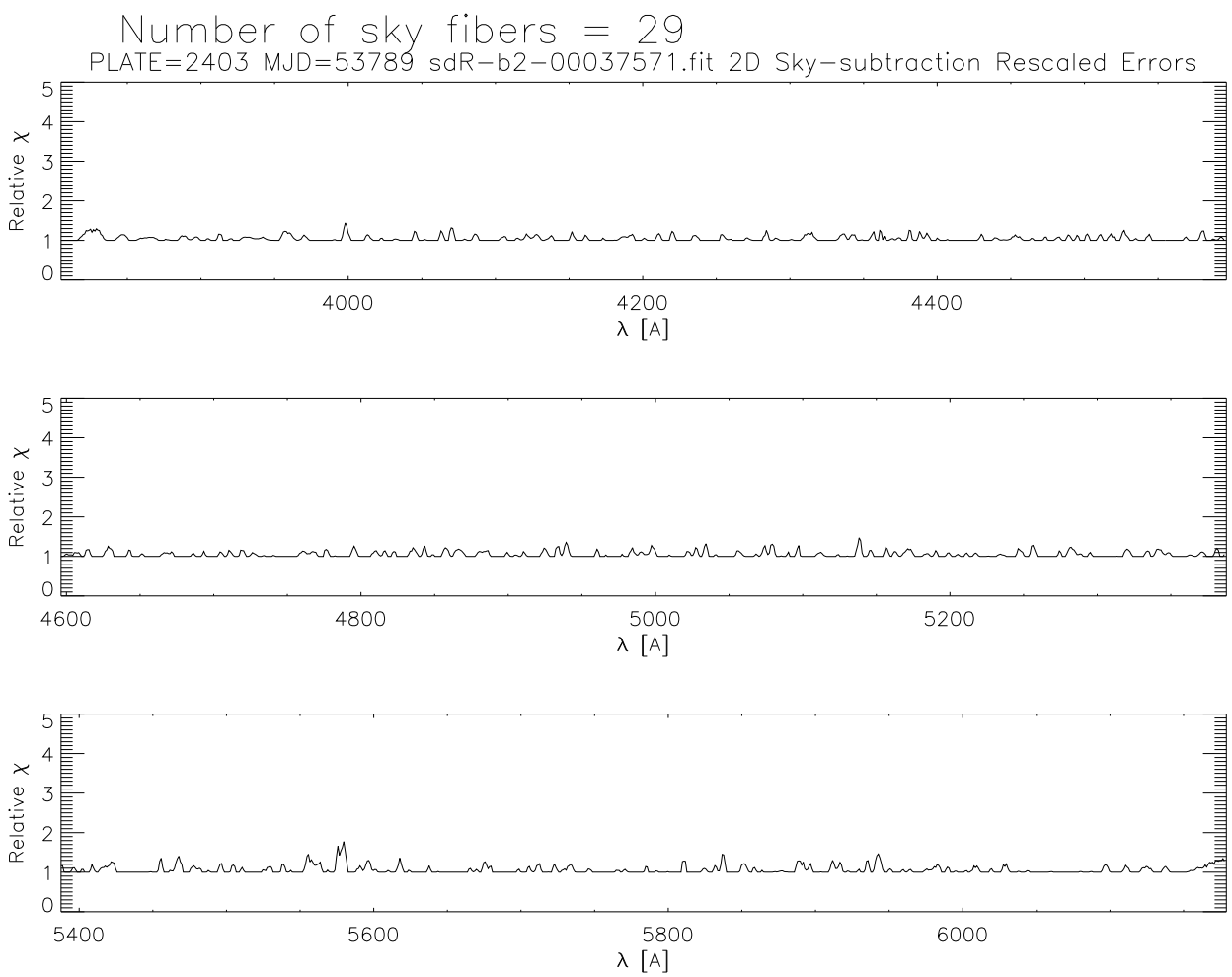

PLATE=2403 MJD=53789 sdR-b2-00037571.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
5570
5575
5580
5585
5590
λ [A]

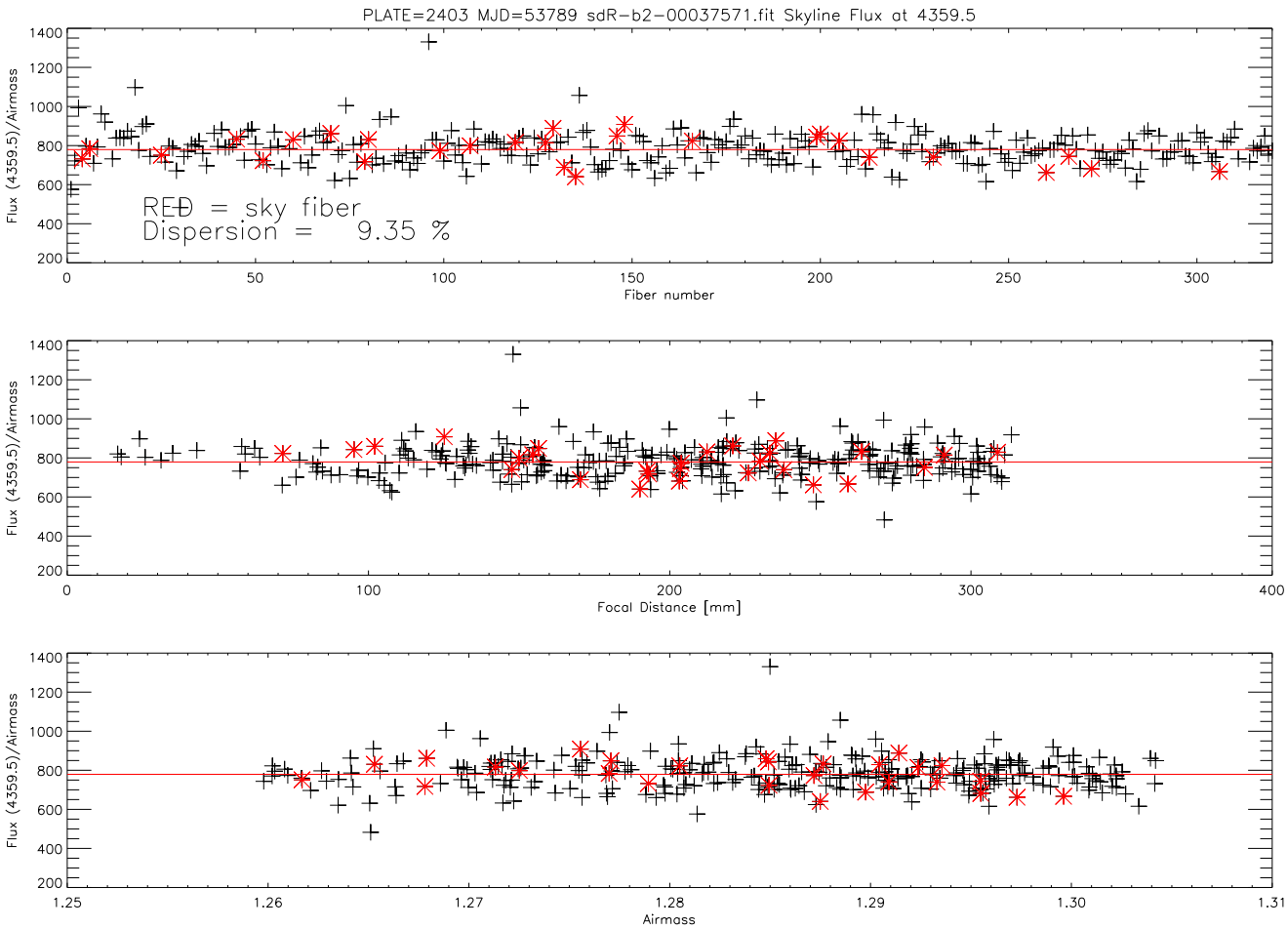

Number of sky fibers = 29
PLATE=2403 MJD=53789 sdR-b2-00037571.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

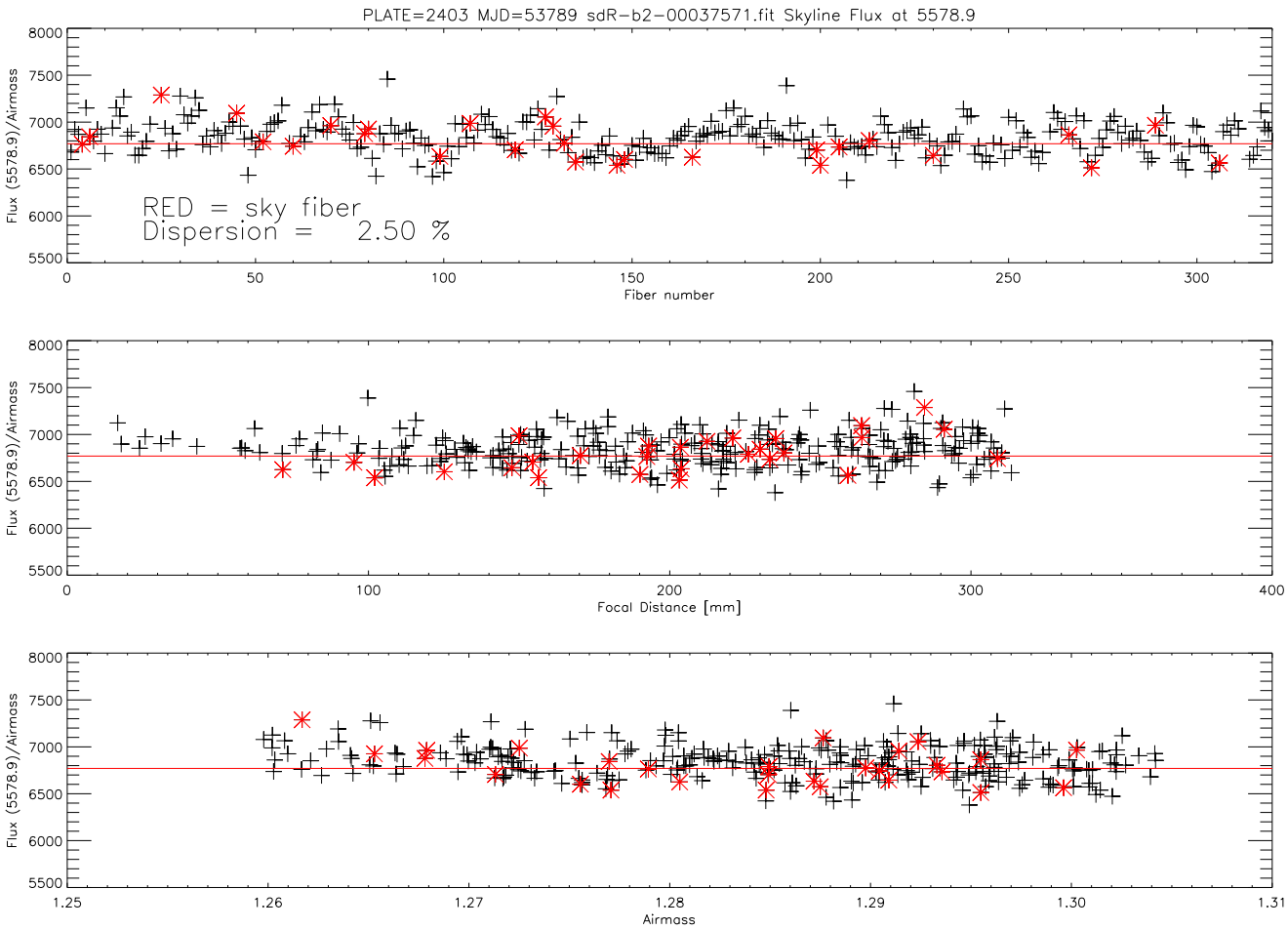

PLATE=2403 MJD=53789 sdR-b2-00037571.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

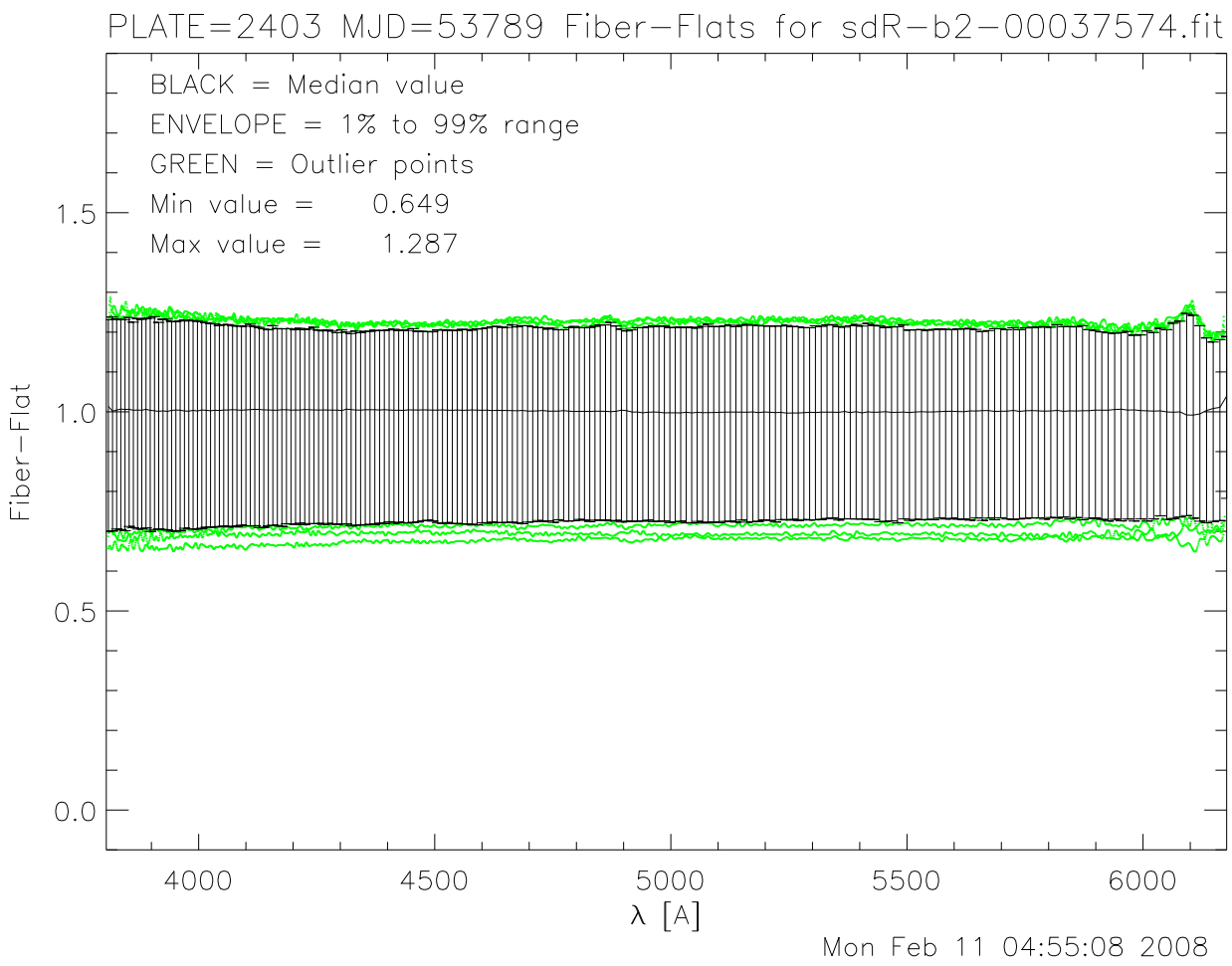

PLATE=2403 MJD=53789 sdR-b2-00037571.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

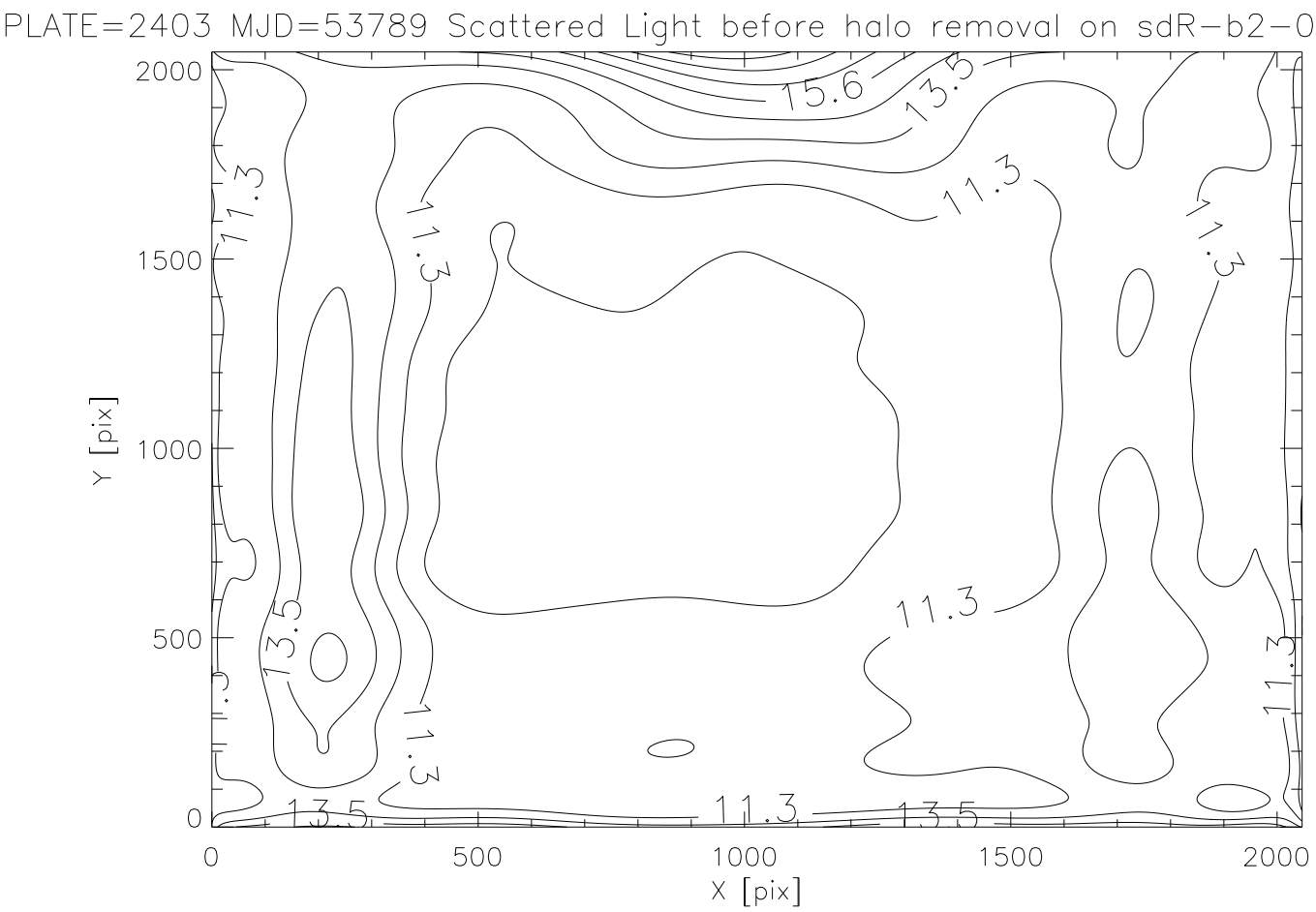

PLATE=2403 MJD=53789 sdR-b2-00037571.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
5570
5575
5580
5585
5590
λ [A]

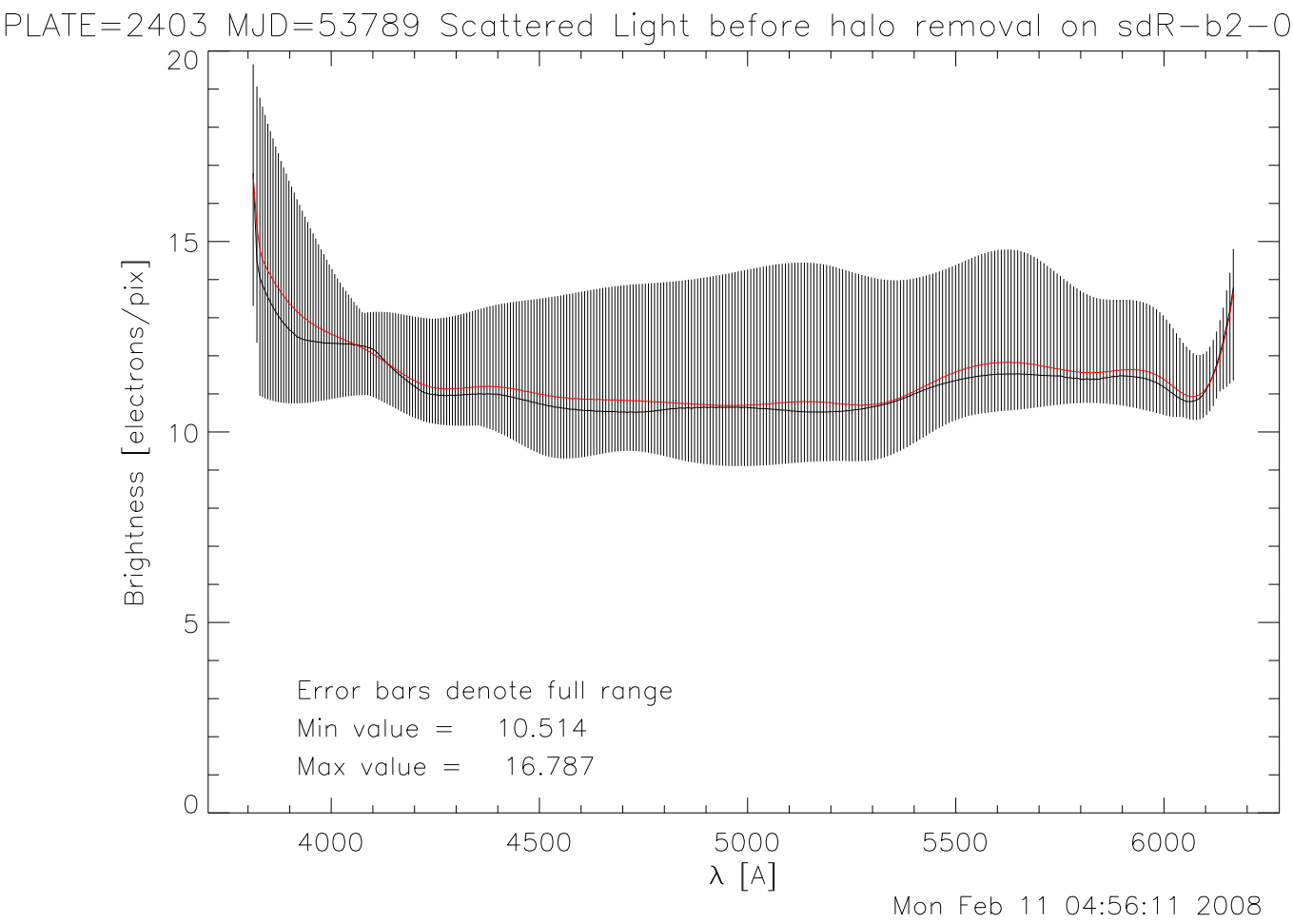

Number of sky fibers = 29
PLATE=2403 MJD=53789 sdR-b2-00037571.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

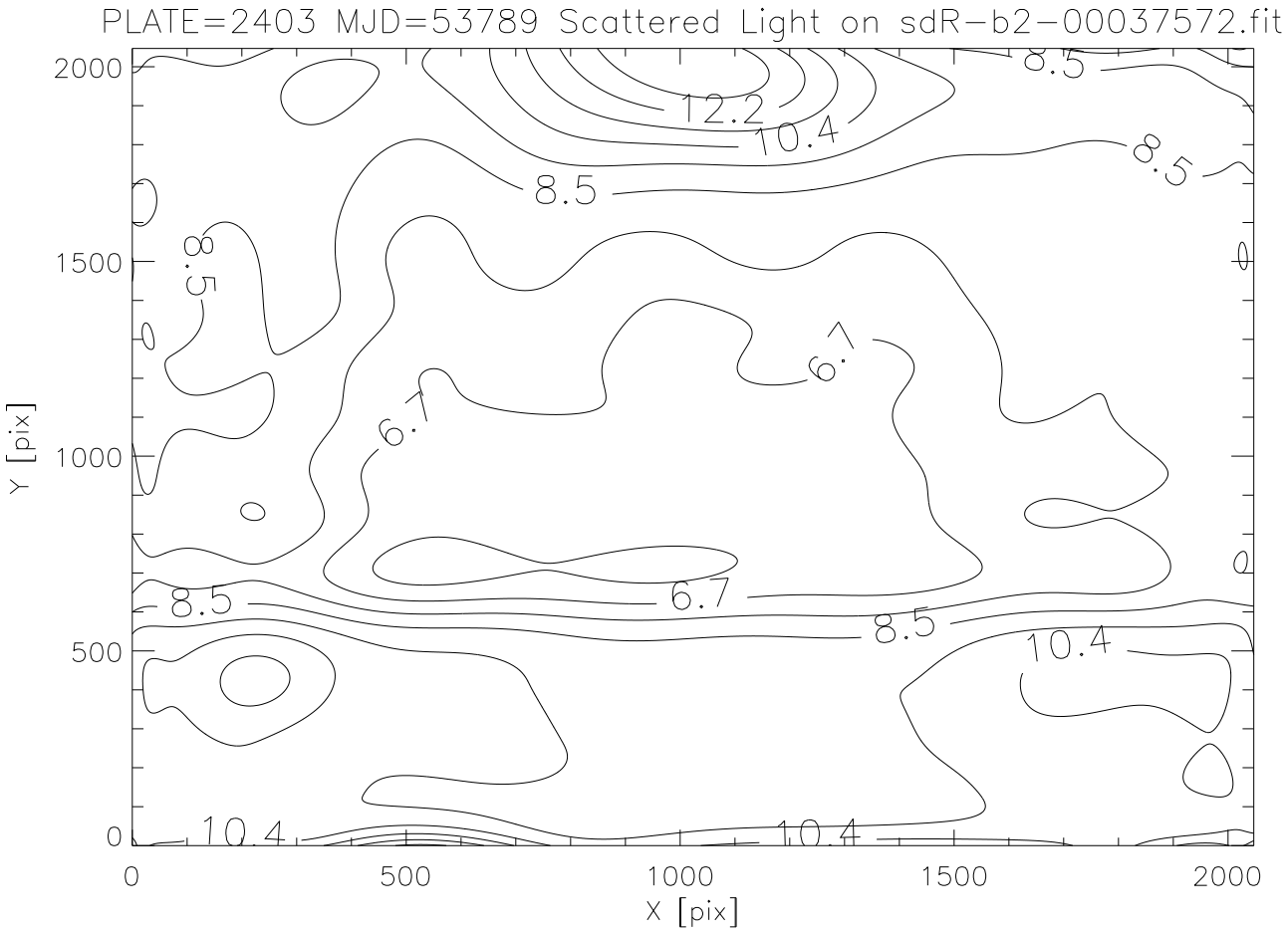

PLATE=2403 MJD=53789 sdR-b2-00037571.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 9.35 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

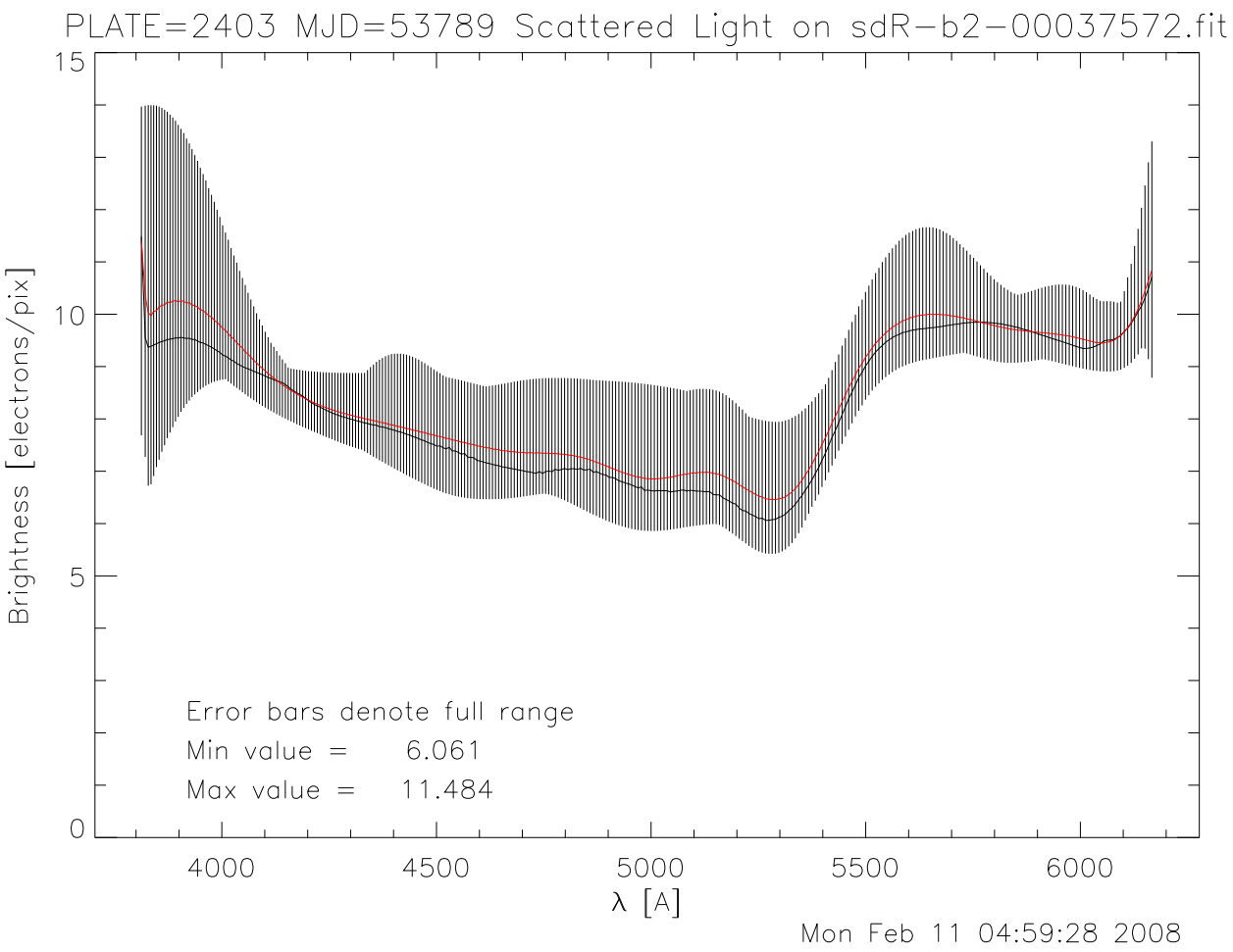

PLATE=2403 MJD=53789 sdR-b2-00037571.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.50 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

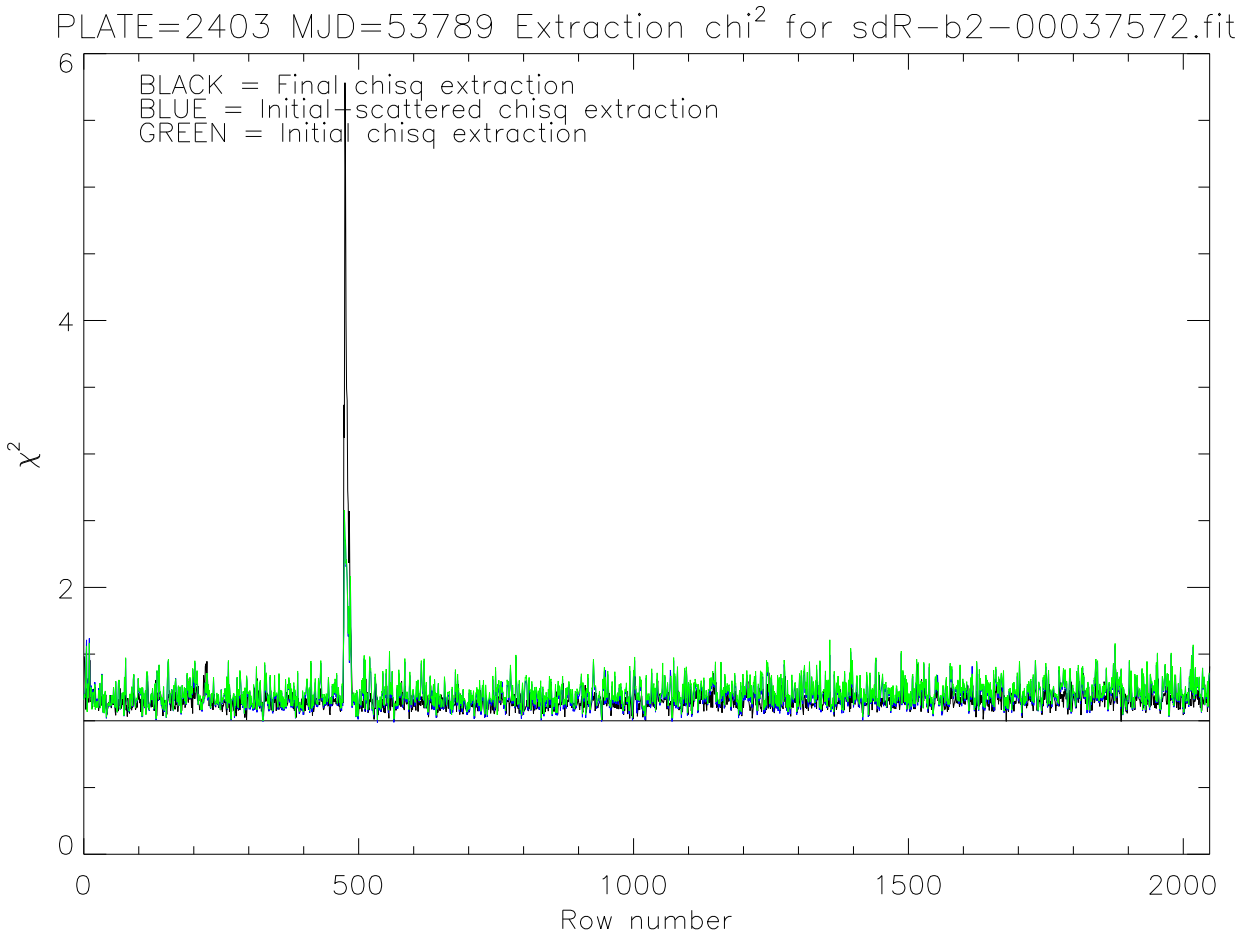

PLATE=2403 MJD=53789 Fiber-Flats for sdR-b2-00037574.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.649
Max value = 1.287
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 04:55:08 2008

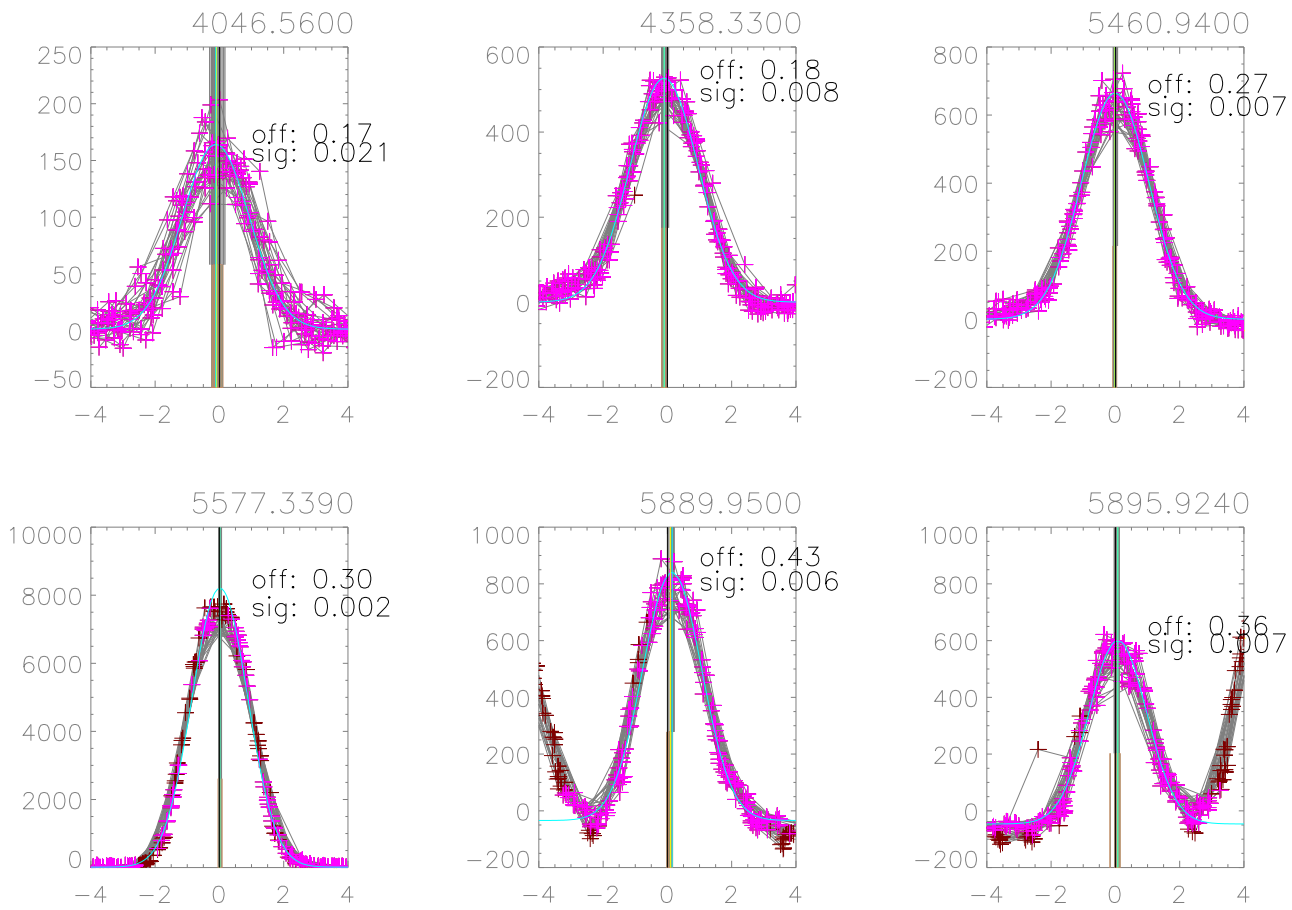

PLATE=2403 MJD=53789 Scattered Light before halo removal on sdR−b2−00037572.f
Y [pix]
X [pix]
0
500
1000
1500
2000
15.6
13.5
11.3

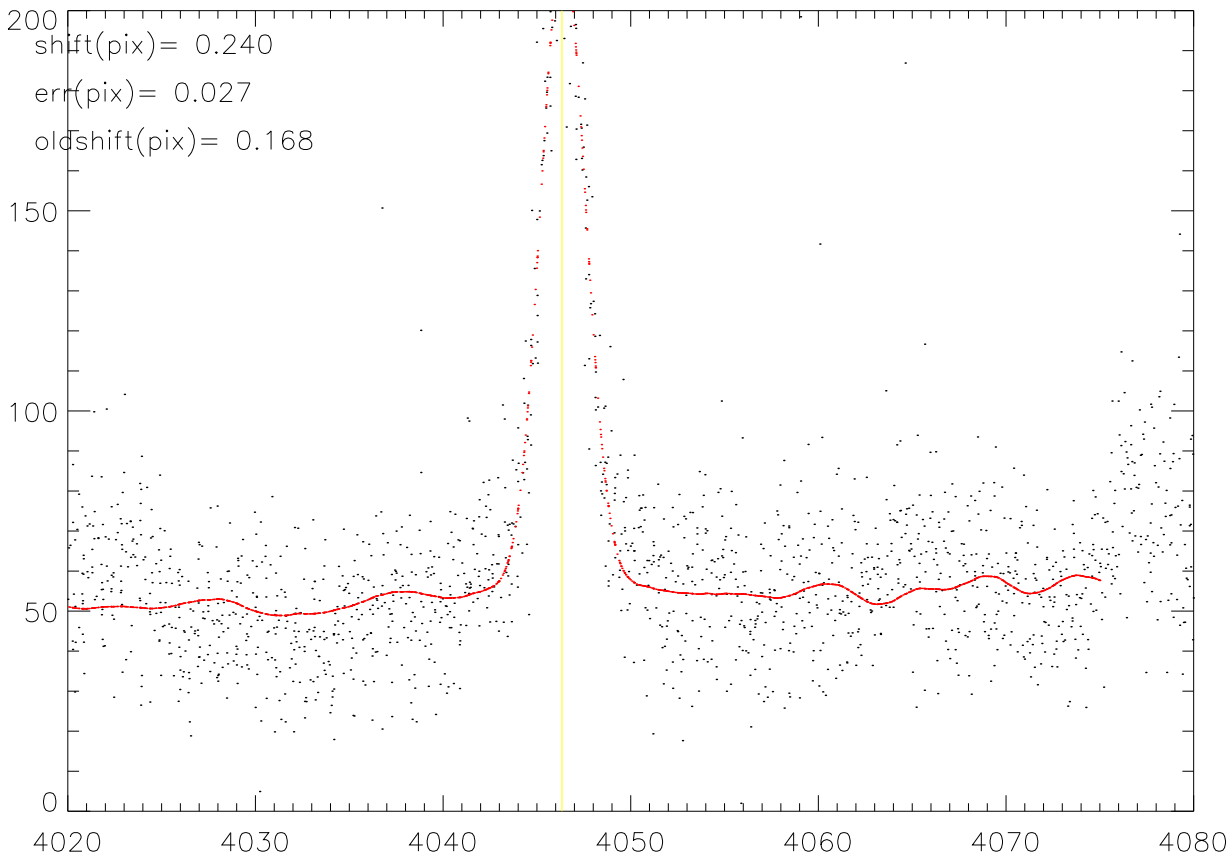

PLATE=2403 MJD=53789 Scattered Light before halo removal on sdR-b2-00037572.f
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 10.514
Max value = 16.787
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 04:56:11 2008

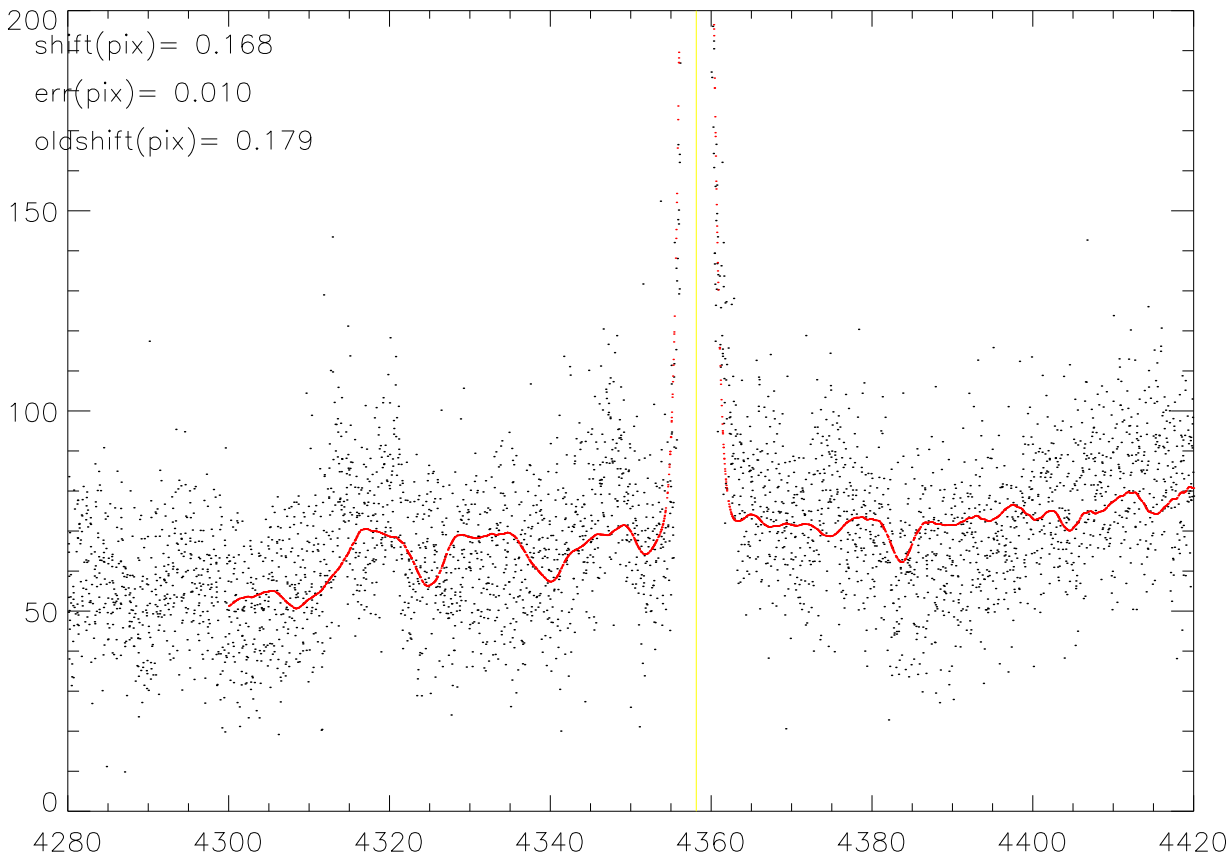

PLATE=2403 MJD=53789 Scattered Light on sdR-b2-00037572.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
12.2
10.4
8.5
6.7
5.0

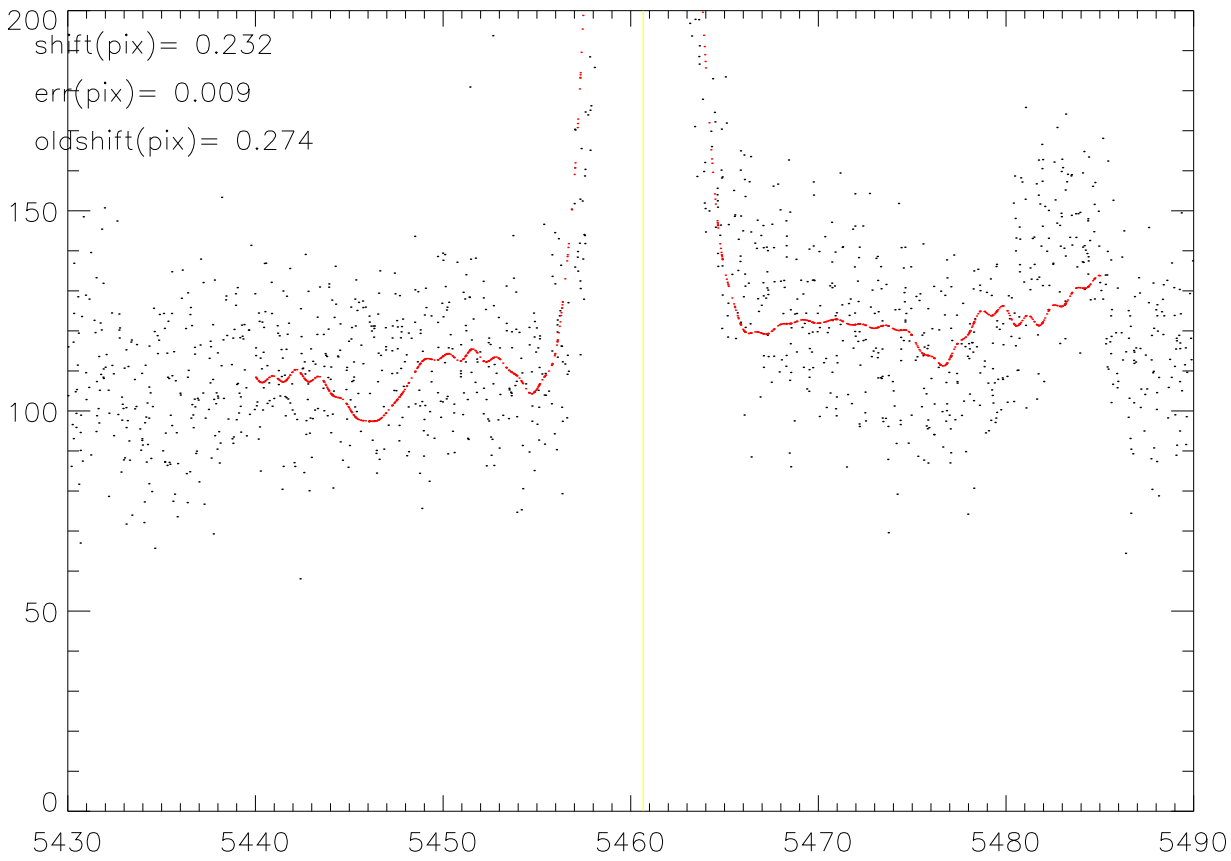

PLATE=2403 MJD=53789 Scattered Light on sdR-b2-00037572.fit
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 6.061
Max value = 11.484
Mon Feb 11 04:59:28 2008

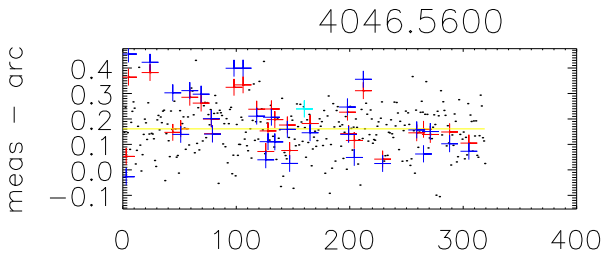

PLATE=2403 MJD=53789 Extraction chi^2 for sdR-b2-00037572.fit
BLACK = Final chisq extraction
BLUE = Initial+scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
0
500
1000
1500
2000
Row number

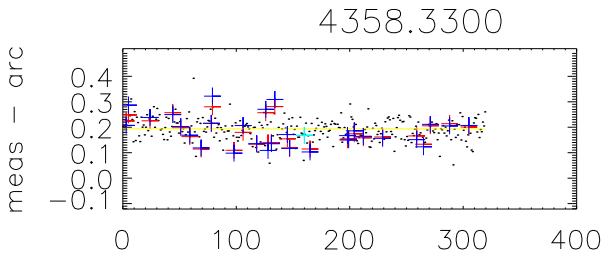

4046.5600
off: 0.17
sig: 0.021
4358.3300
off: 0.18
sig: 0.008
5460.9400
off: 0.27
sig: 0.007
5577.3390
off: 0.30
sig: 0.002
5889.9500
off: 0.43
sig: 0.006
5895.9240
off: 0.36
sig: 0.007

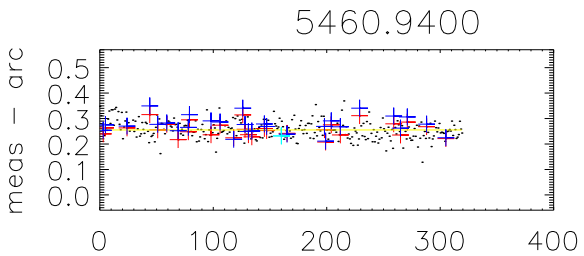

shift(pix)= 0.240
err(pix)= 0.027
oldshift(pix)= 0.168
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

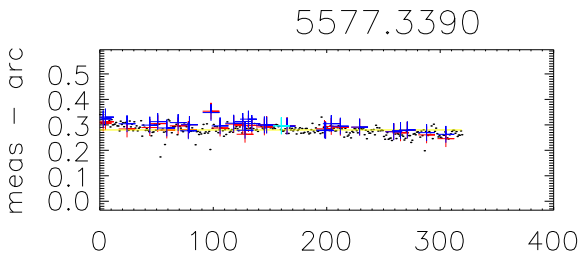

shift(pix)= 0.168
err(pix)= 0.010
oldshift(pix)= 0.179
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

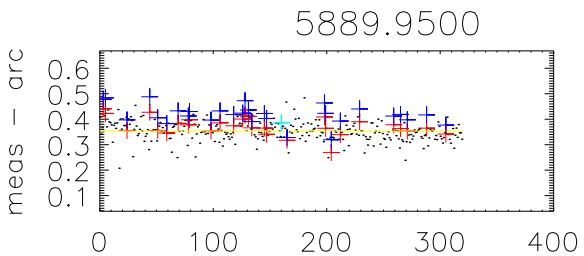

shift(pix)= 0.232
err(pix)= 0.009
oldshift(pix)= 0.274
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

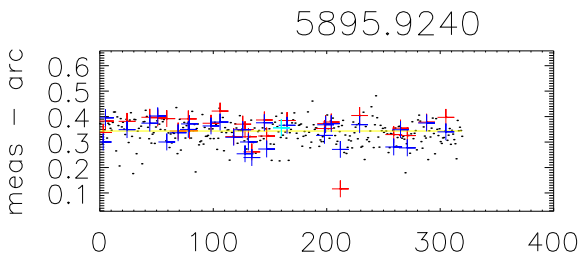

4046.5600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

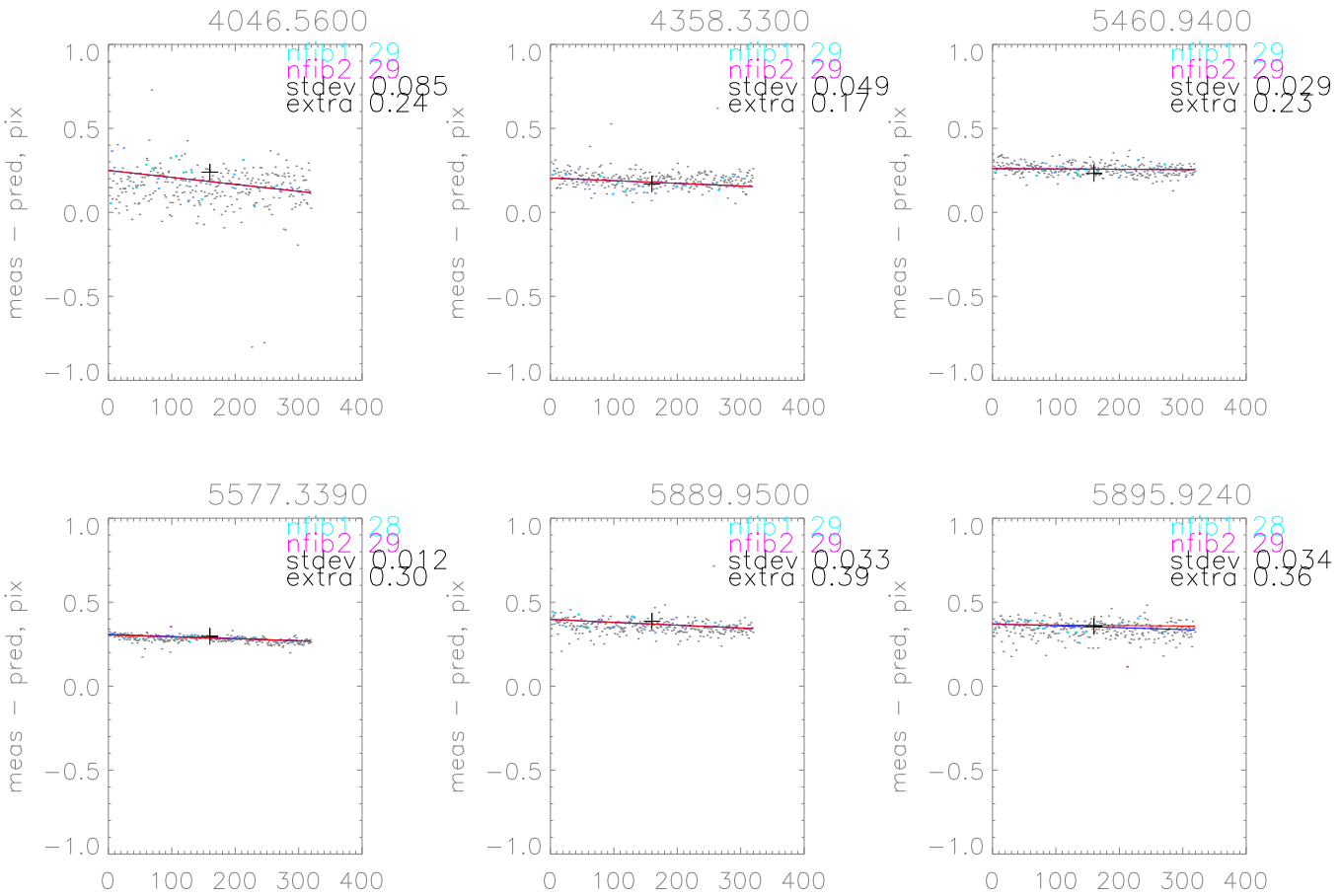

4358.3300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

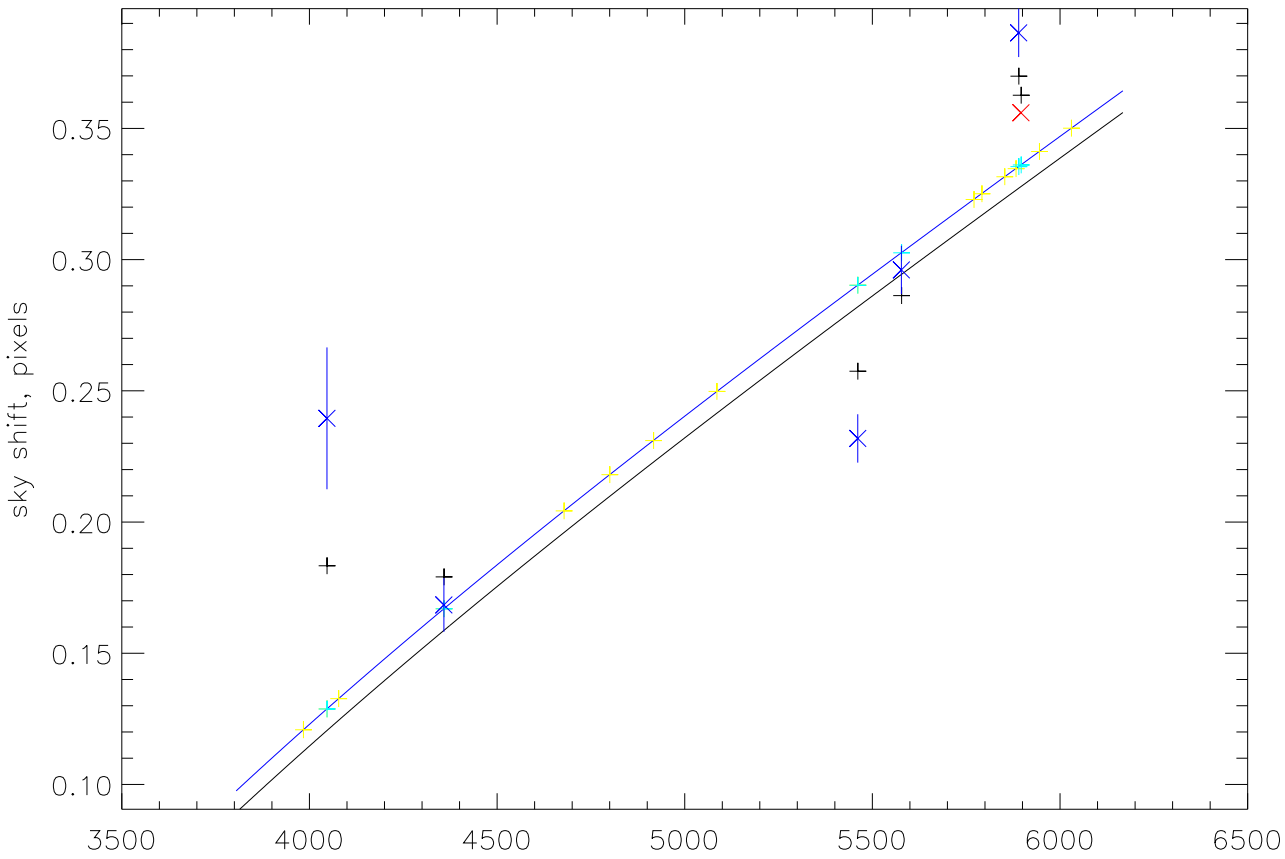

5460.9400
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

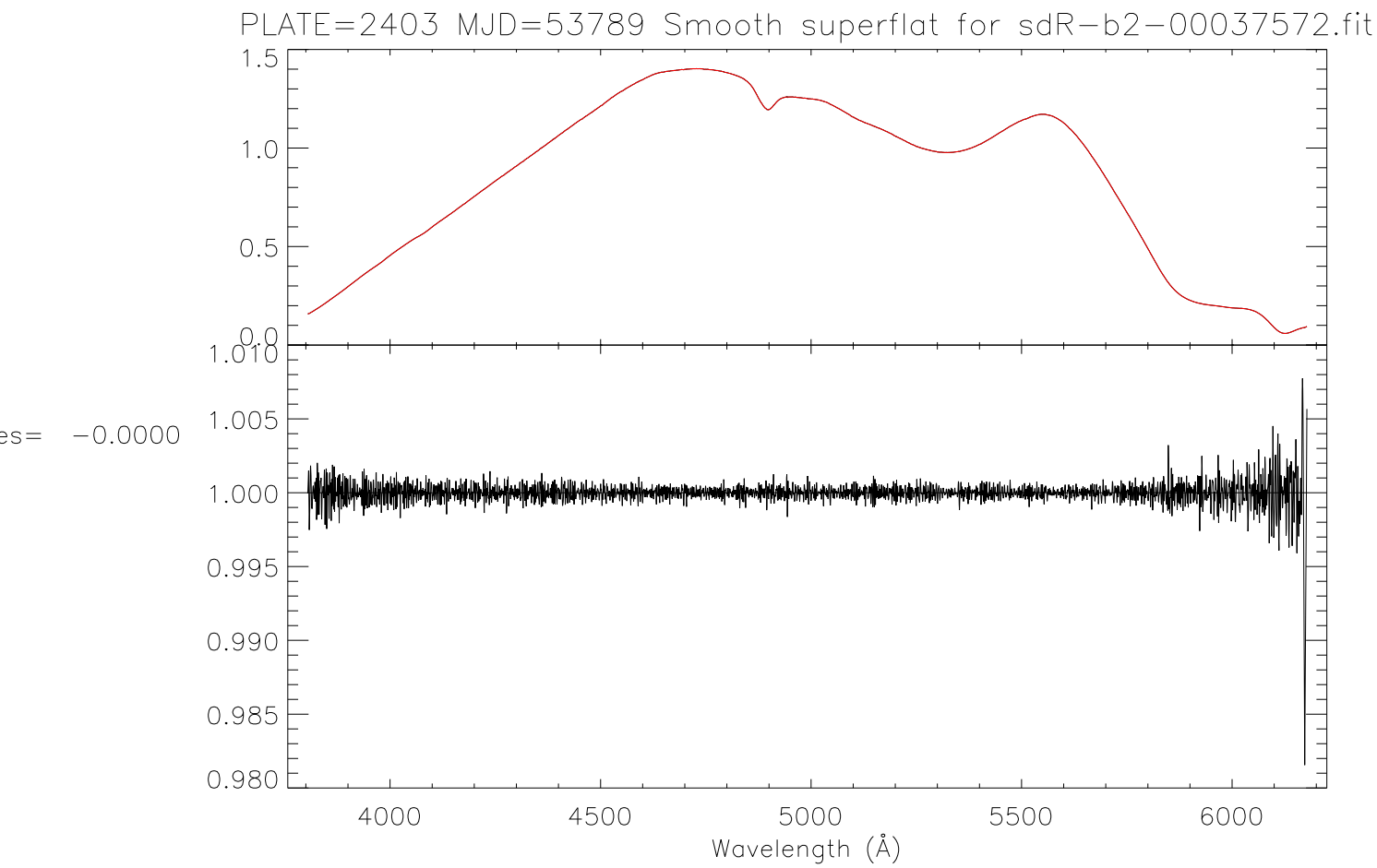

5577.3390
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

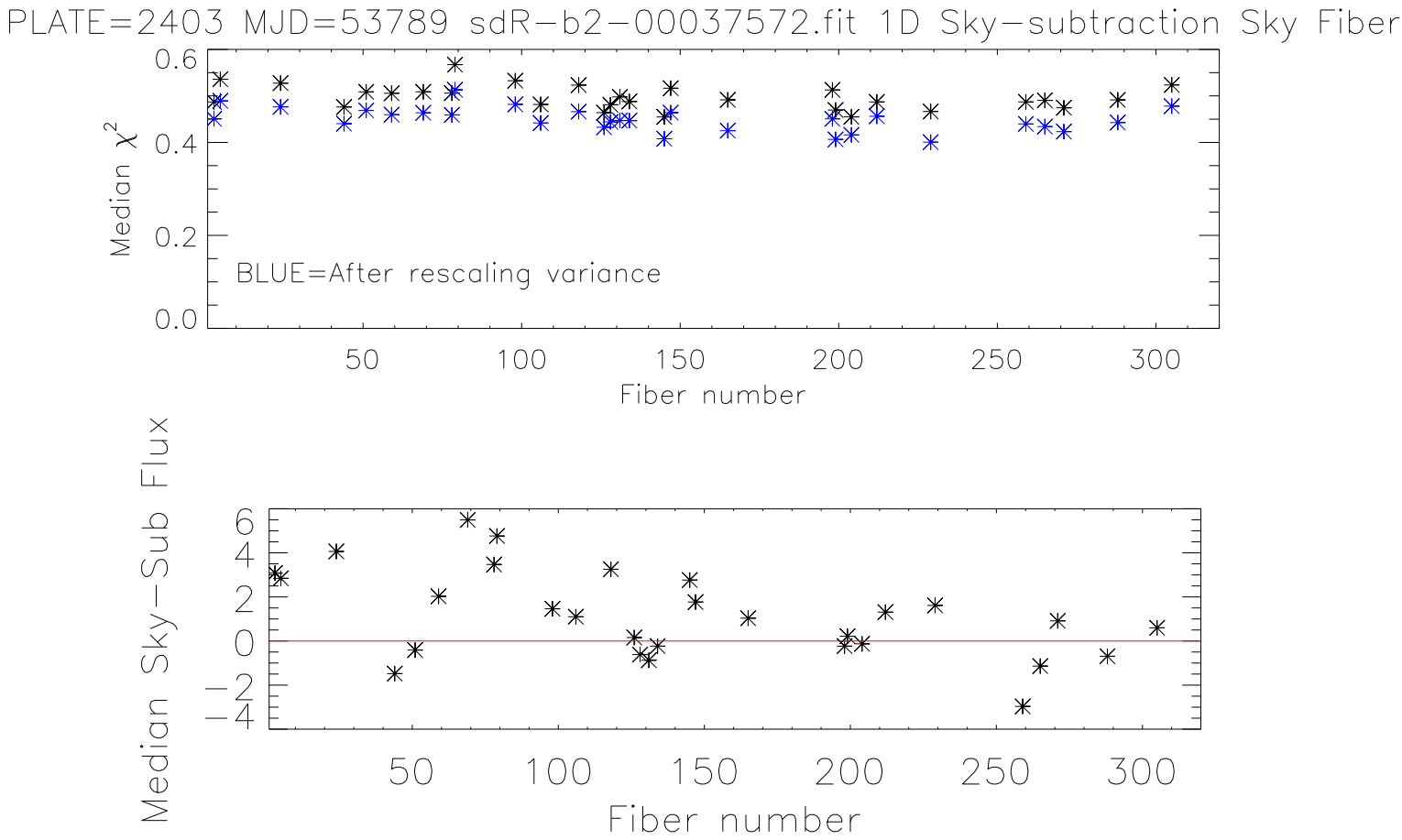

5889.9500
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

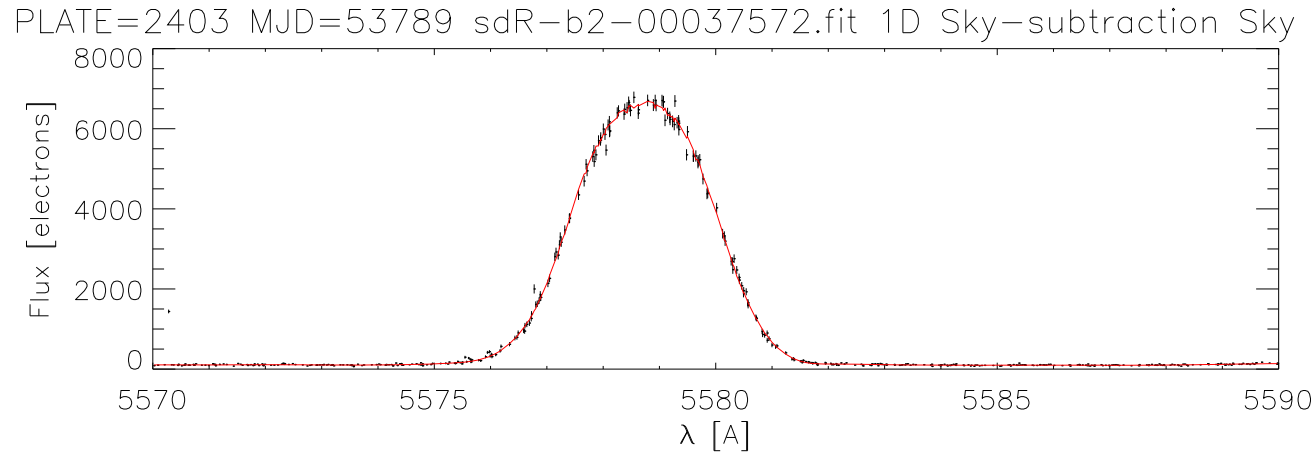

5895.9240
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

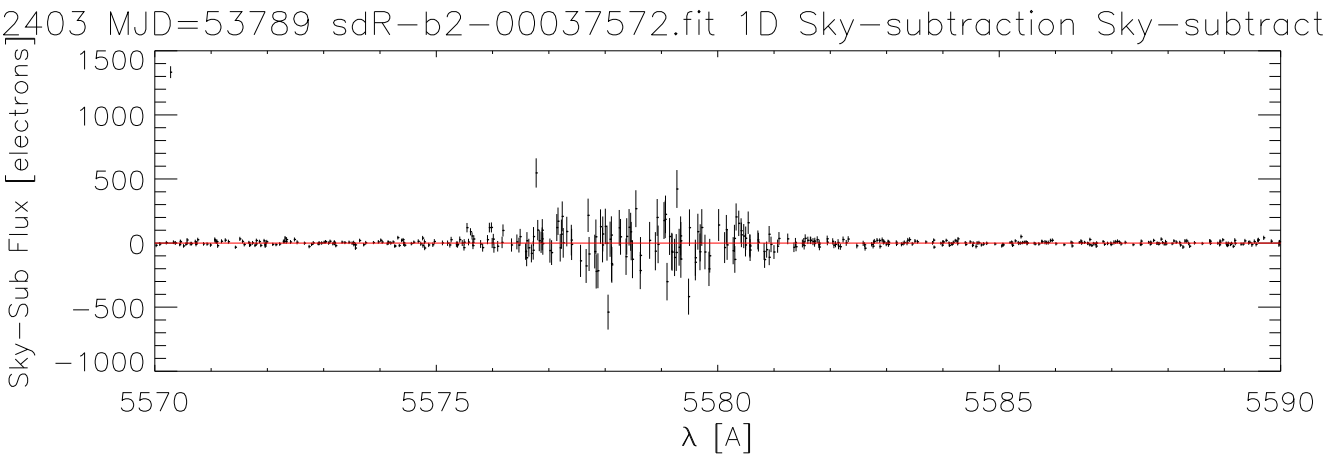

4046.5600
nfib1 29
nfib2 29
stdev 0.085
extra 0.24
4358.3300
nfib1 29
nfib2 29
stdev 0.049
extra 0.17
5460.9400
nfib1 29
nfib2 29
stdev 0.029
extra 0.23
5577.3390
nfib1 28
nfib2 29
stdev 0.012
extra 0.30
5889.9500
nfib1 29
nfib2 29
stdev 0.033
extra 0.39
5895.9240
nfib1 28
nfib2 29
stdev 0.034
extra 0.36
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

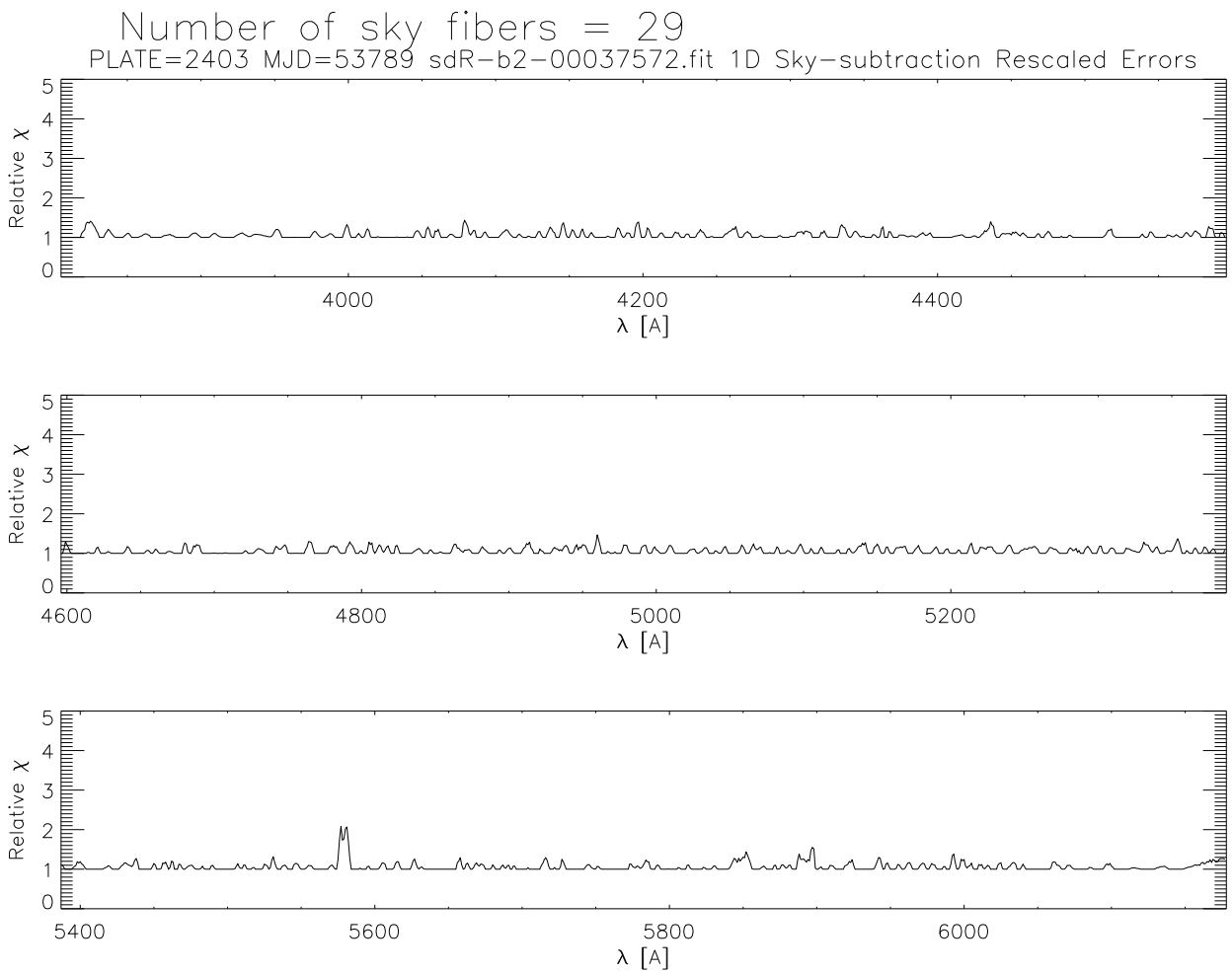

sky shift, pixels
0.10
0.15
0.20
0.25
0.30
0.35
3500
4000
4500
5000
5500
6000
6500

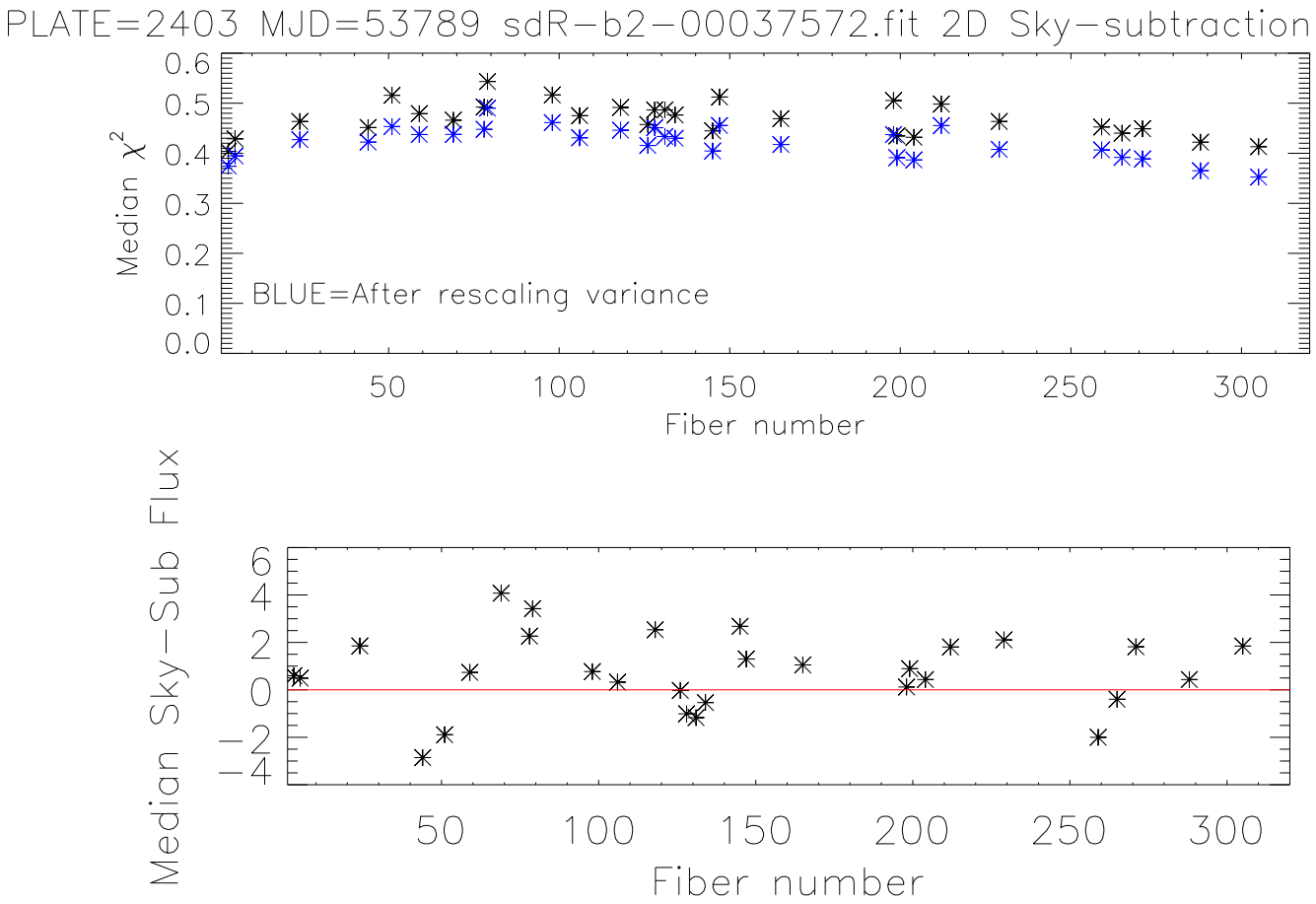

PLATE=2403 MJD=53789 Smooth superflat for sdR-b2-00037572.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
0.980
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

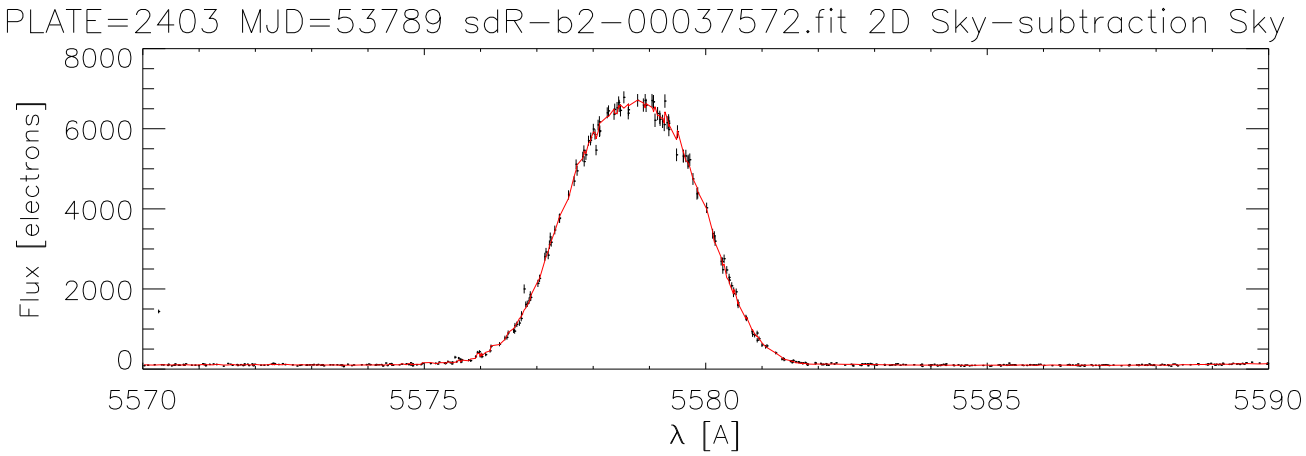

PLATE=2403 MJD=53789 sdR-b2-00037572.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

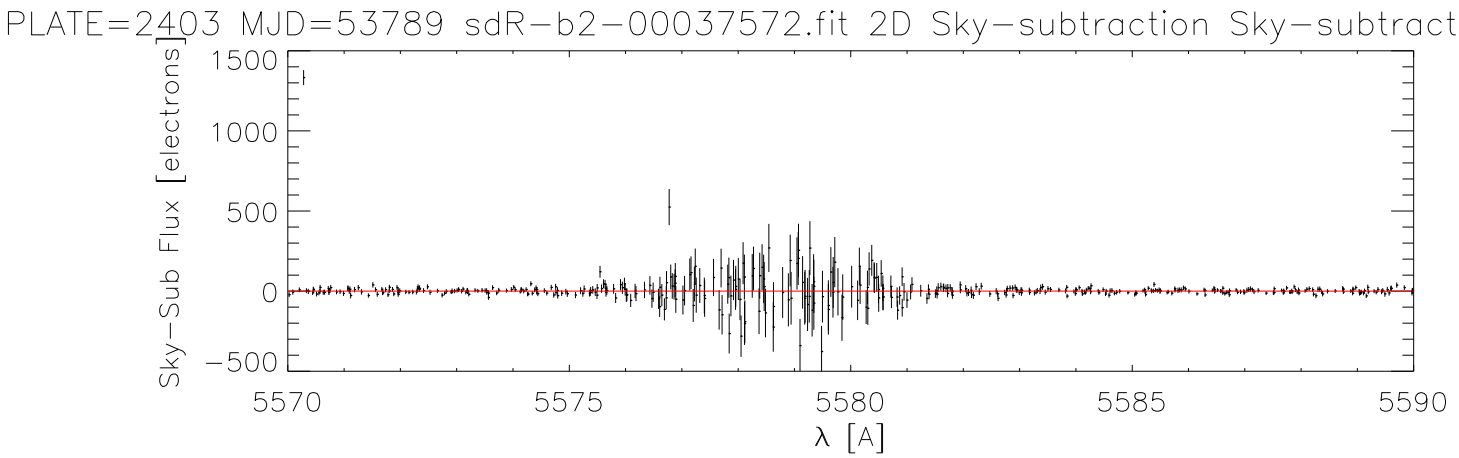

PLATE=2403 MJD=53789 sdR-b2-00037572.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

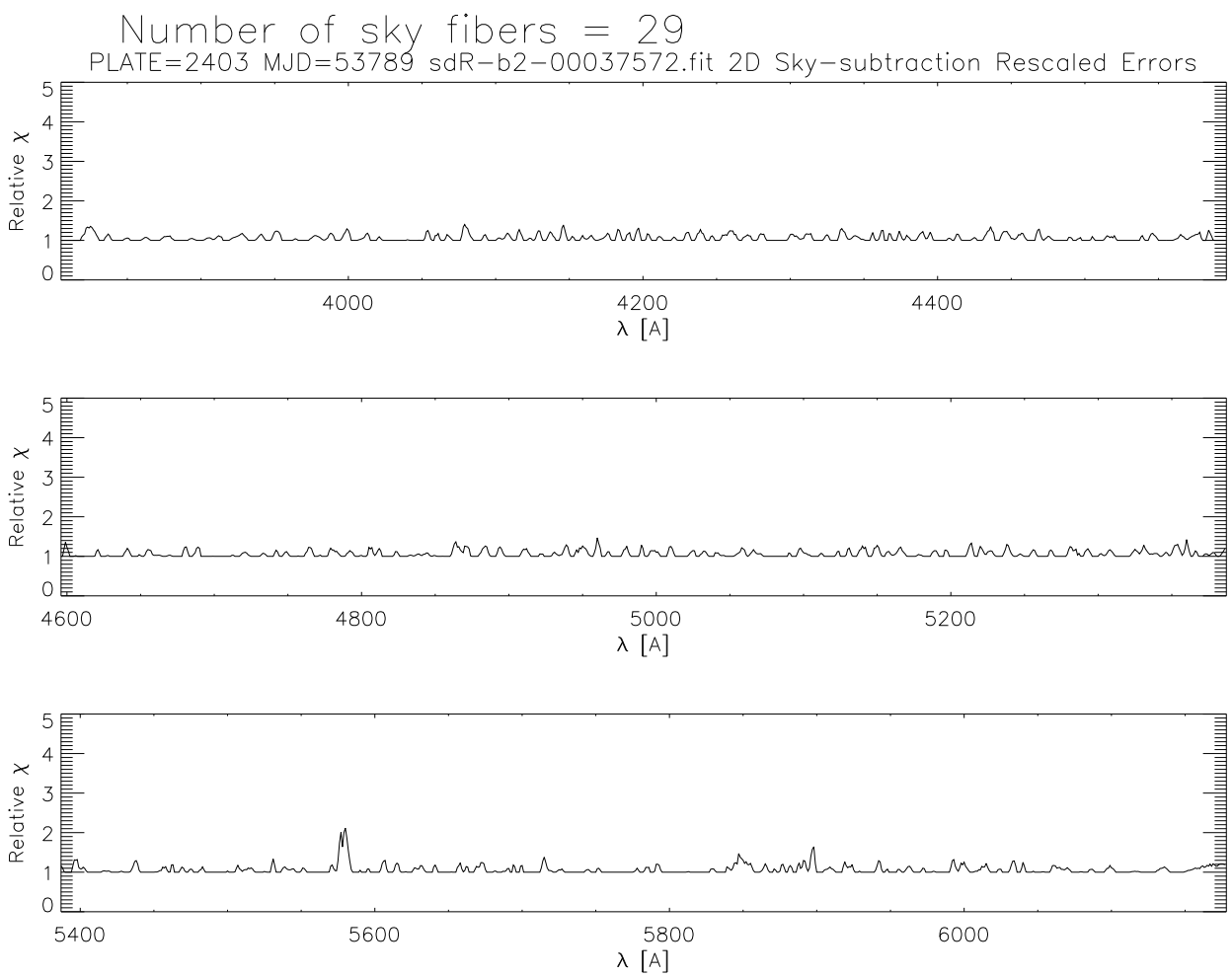

PLATE=2403 MJD=53789 sdR-b2-00037572.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
-1000
5570
5575
5580
5585
5590
λ [A]

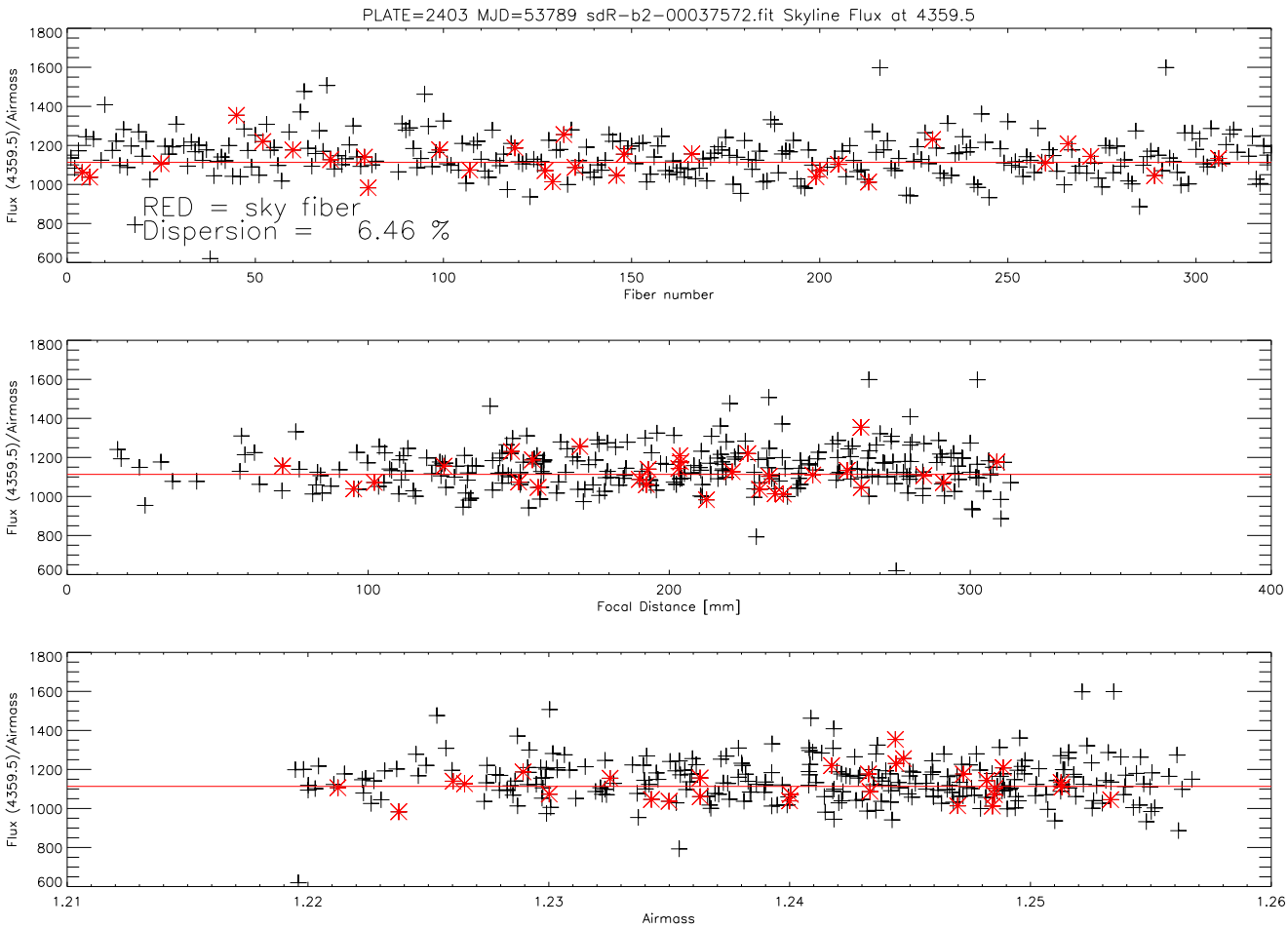

Number of sky fibers = 29
PLATE=2403 MJD=53789 sdR-b2-00037572.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

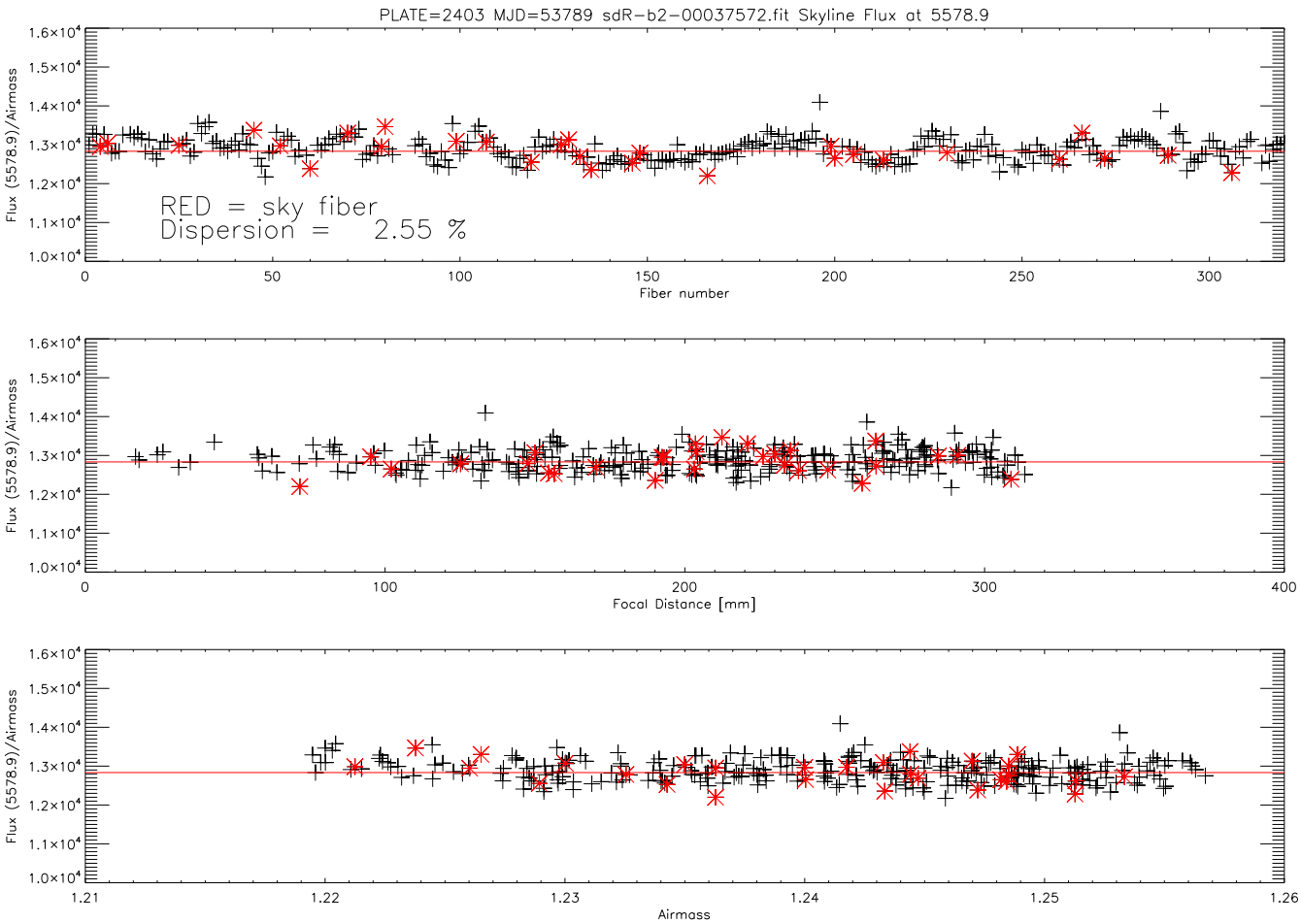

PLATE=2403 MJD=53789 sdR-b2-00037572.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

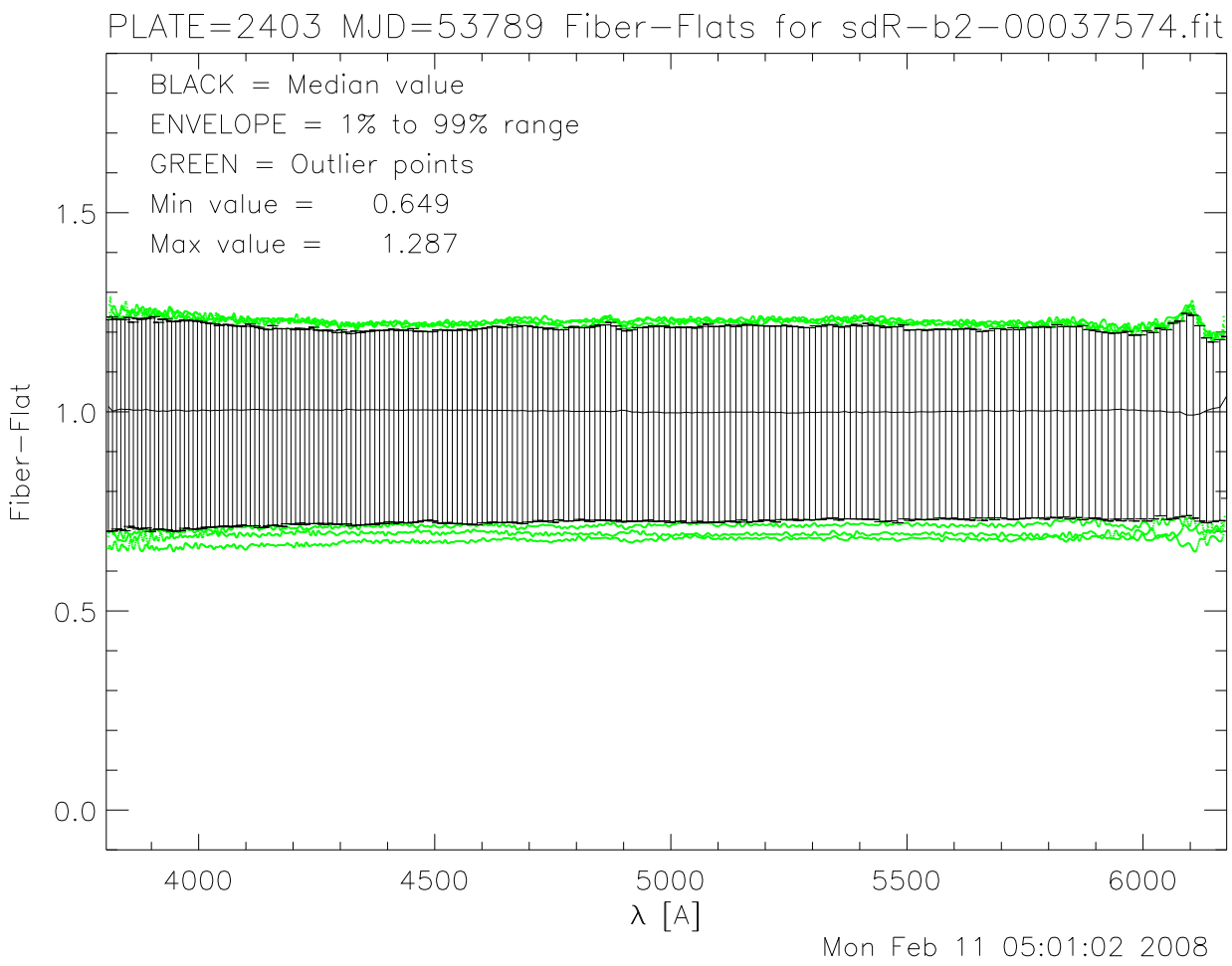

PLATE=2403 MJD=53789 sdR-b2-00037572.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

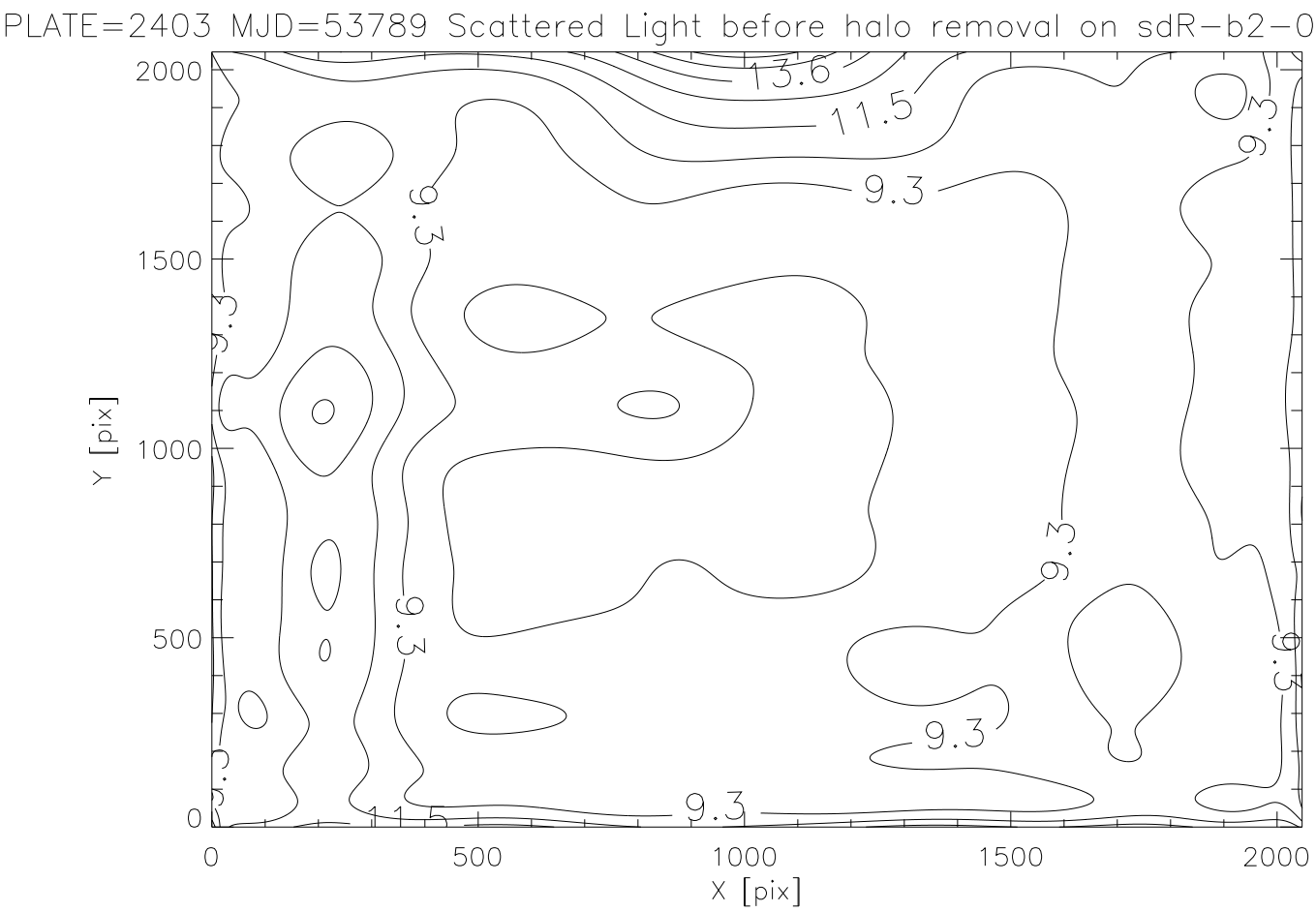

PLATE=2403 MJD=53789 sdR-b2-00037572.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
−500
5570
5575
5580
5585
5590
λ [A]

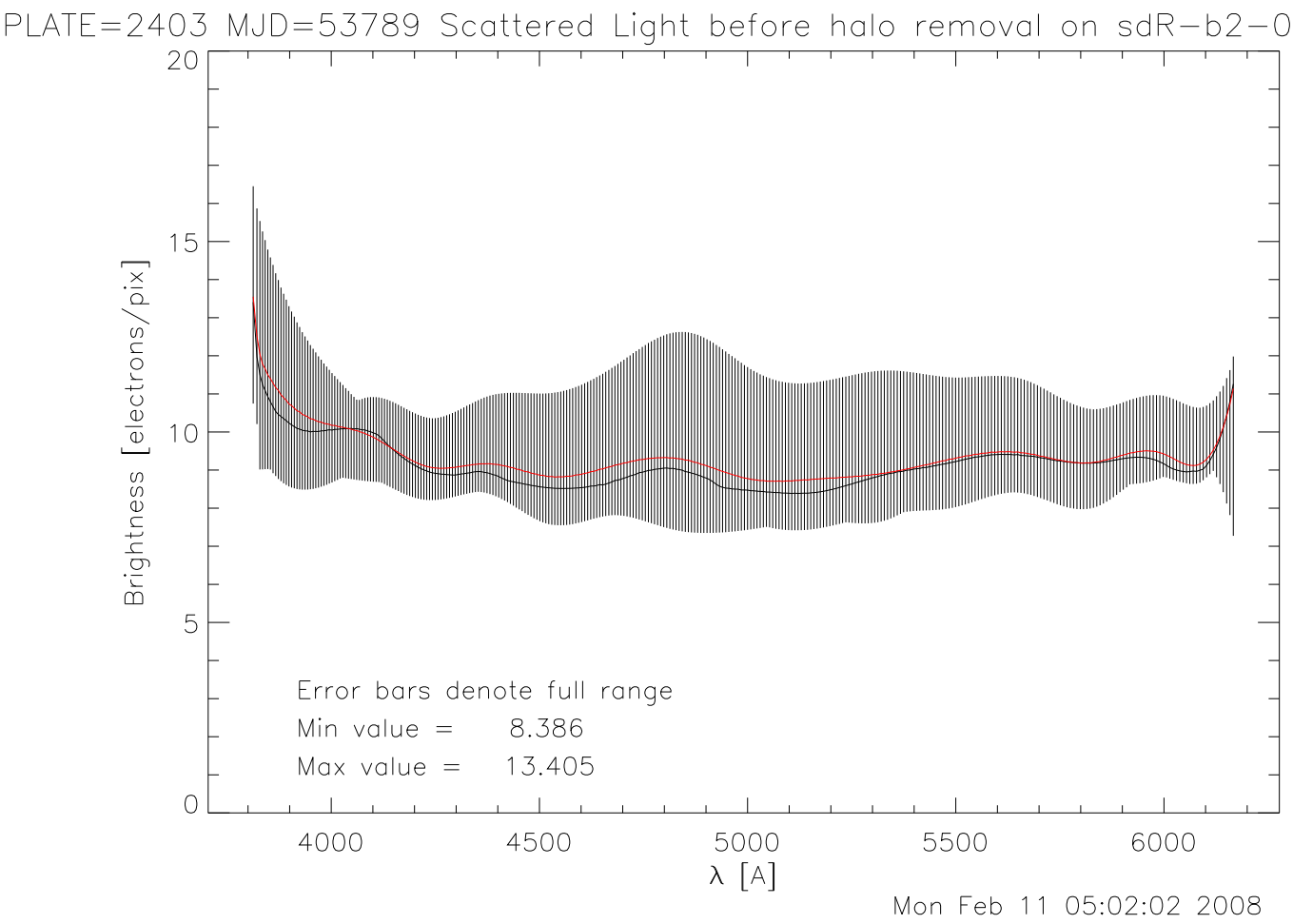

Number of sky fibers = 29
PLATE=2403 MJD=53789 sdR-b2-00037572.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

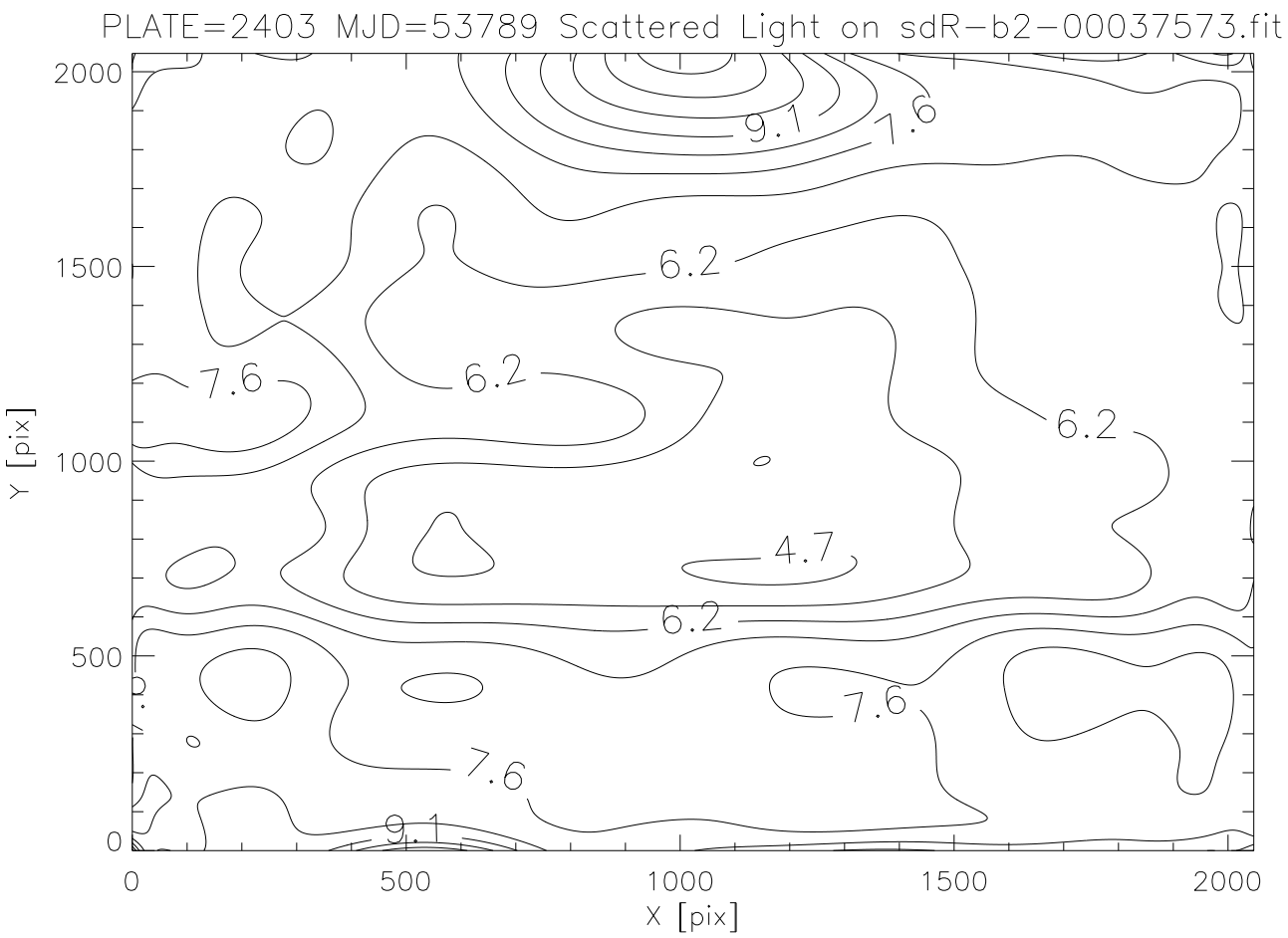

PLATE=2403 MJD=53789 sdR-b2-00037572.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 6.46 %
Fiber number
Focal Distance [mm]
Airmass

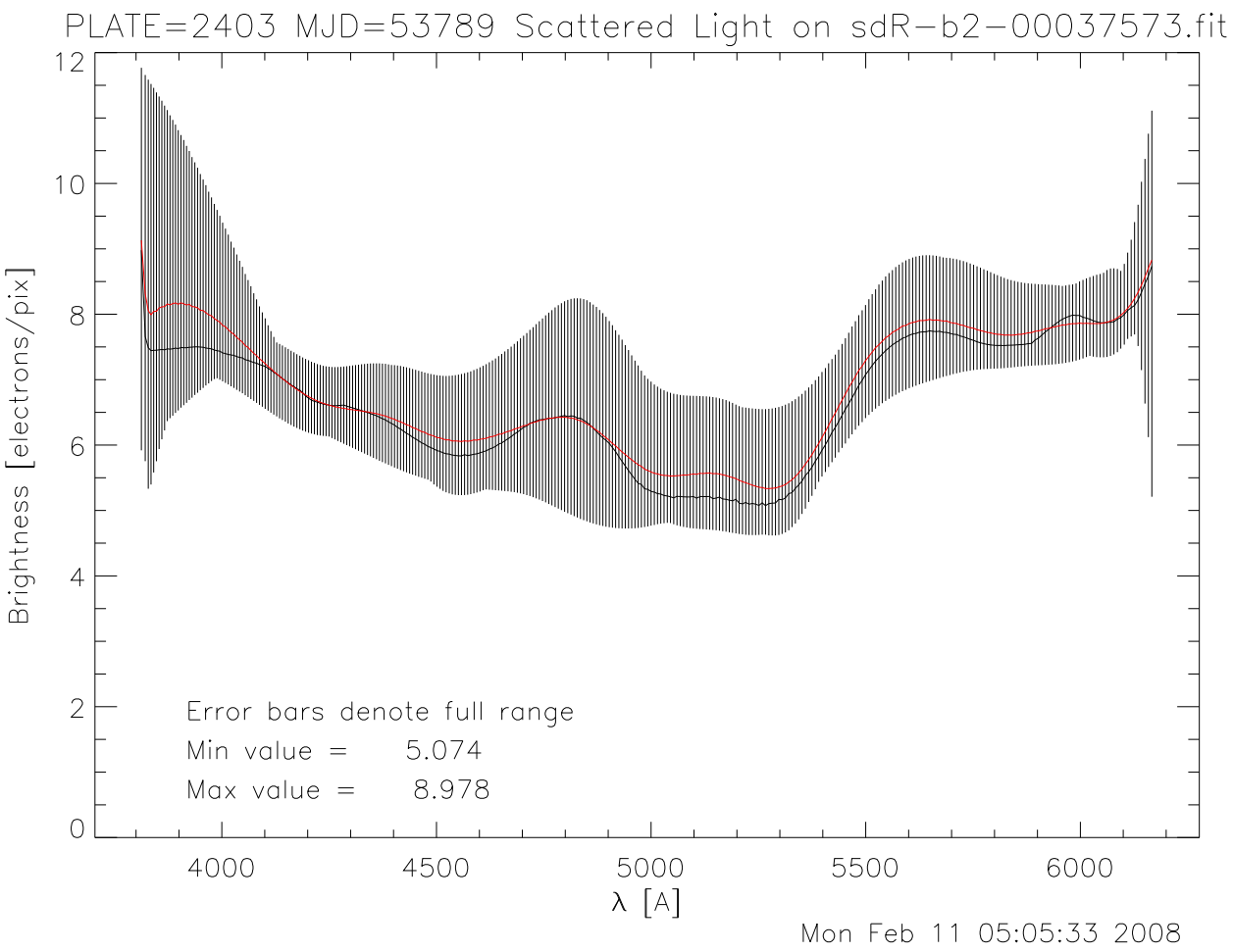

PLATE=2403 MJD=53789 sdR-b2-00037572.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.55 %
Fiber number
Focal Distance [mm]
Airmass

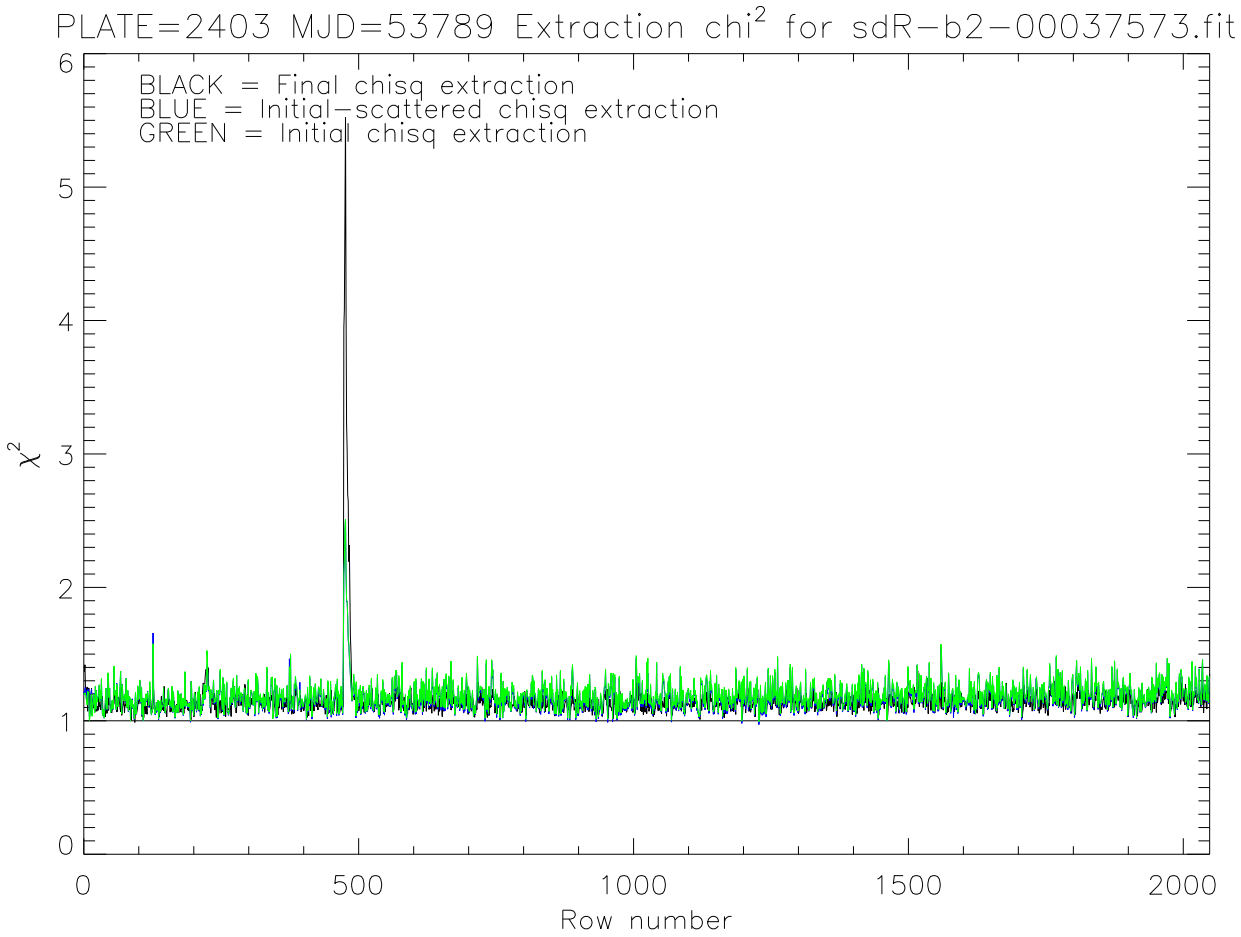

PLATE=2403 MJD=53789 Fiber-Flats for sdR-b2-00037574.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.649
Max value = 1.287
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 05:01:02 2008

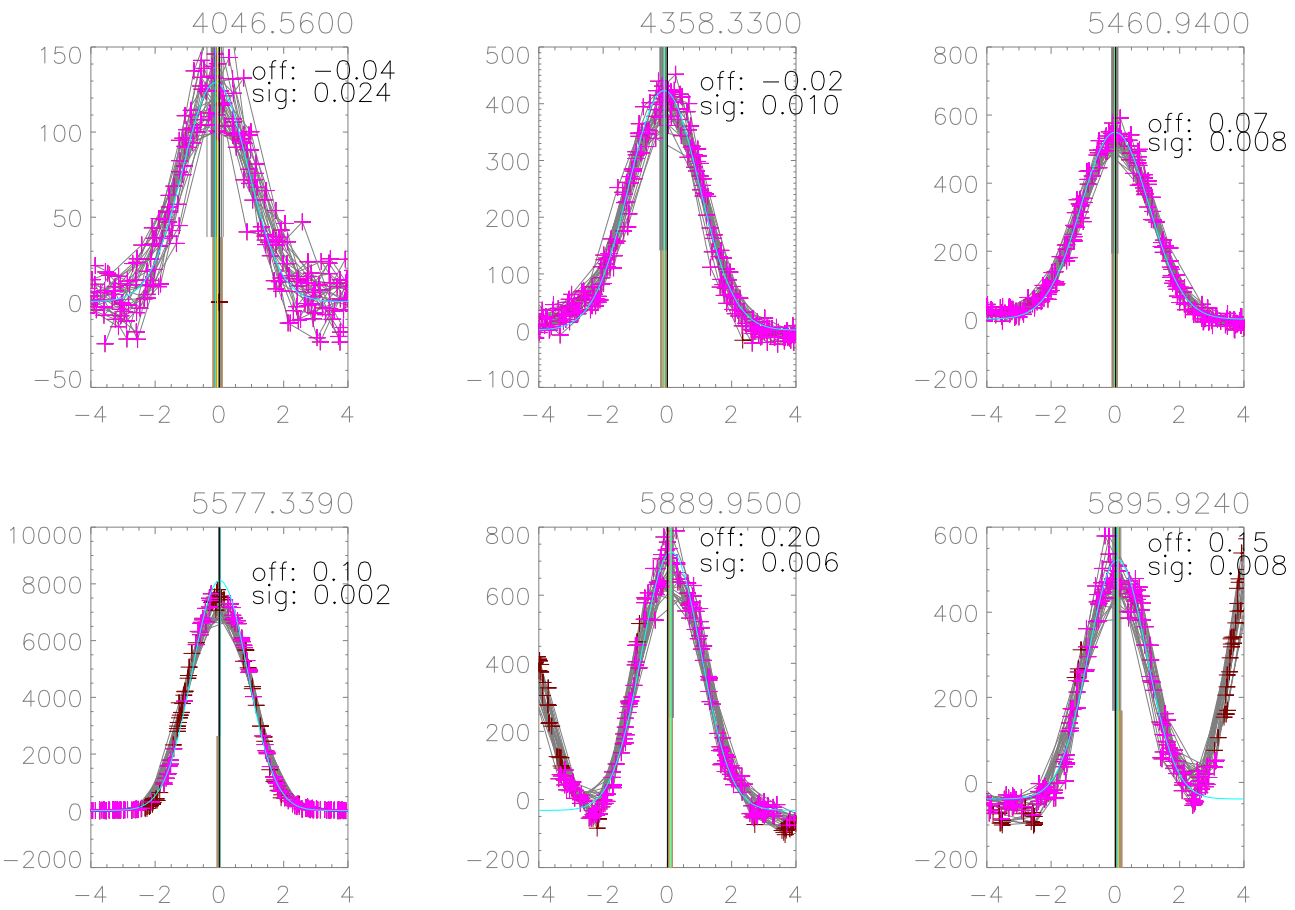

PLATE=2403 MJD=53789 Scattered Light before halo removal on sdR-b2-00037573.f
13.6
11.5
9.3
0
Y [pix]
X [pix]
0
500
1000
1500
2000

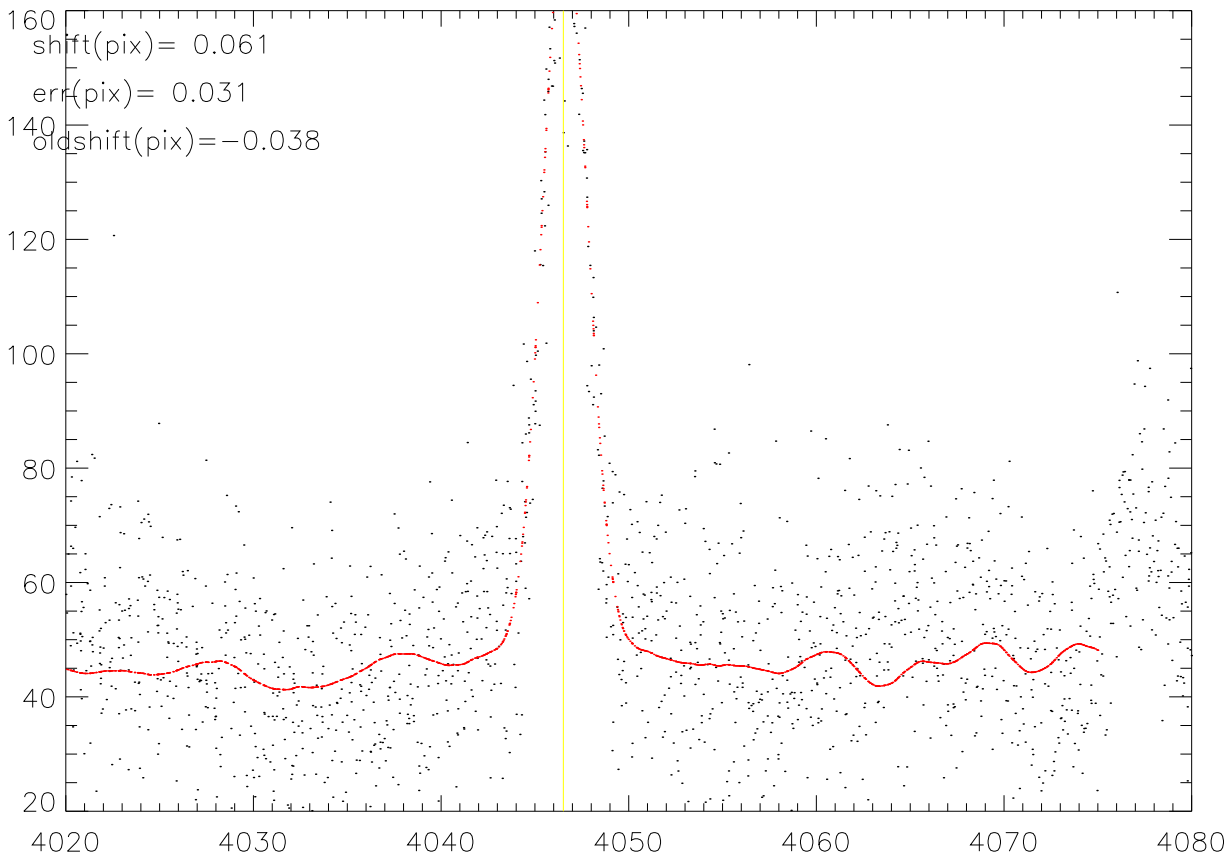

PLATE=2403 MJD=53789 Scattered Light before halo removal on sdR−b2−00037573.f
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 8.386
Max value = 13.405
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 05:02:02 2008

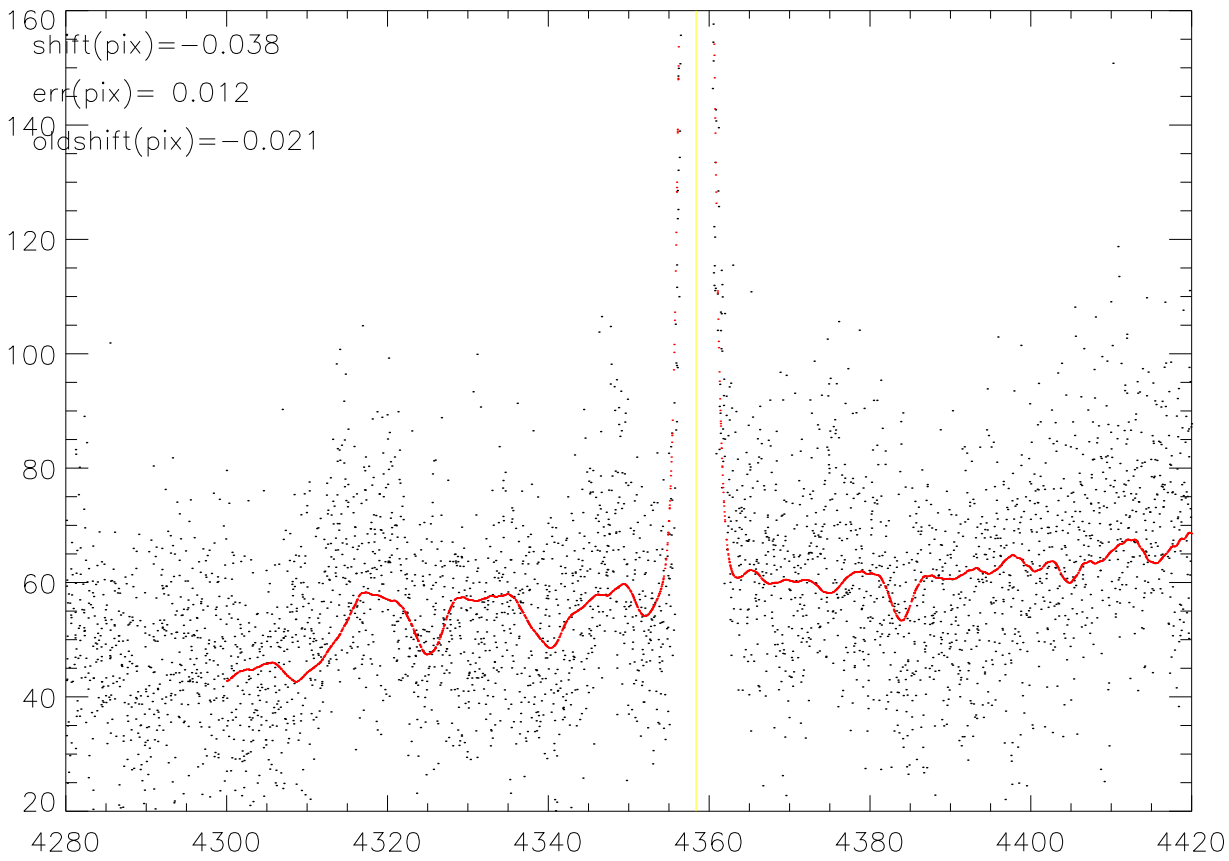

PLATE=2403 MJD=53789 Scattered Light on sdR-b2-00037573.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
9.1
7.6
6.2
6.2
7.6
6.2
6.2
4.7
6.2
7.6
7.6
9.1

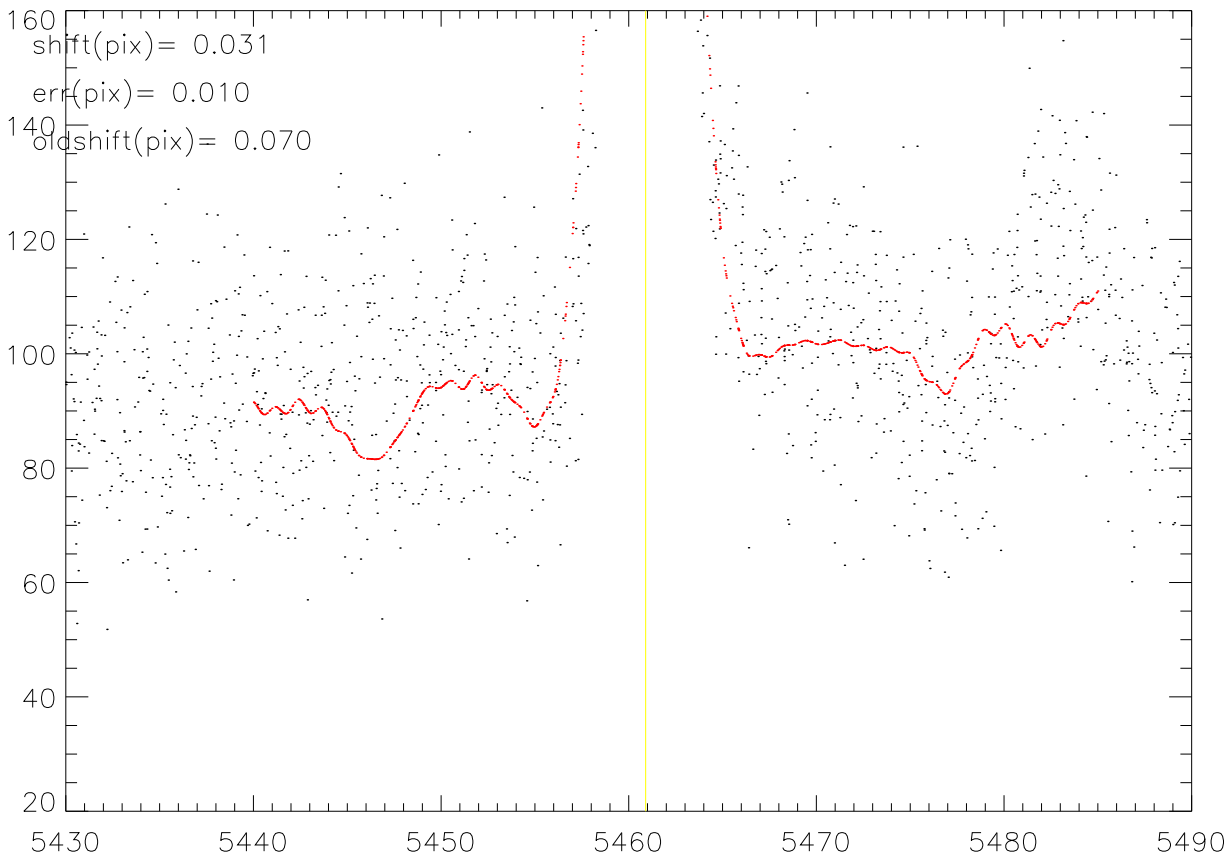

PLATE=2403 MJD=53789 Scattered Light on sdR-b2-00037573.fit
Brightness [electrons/pix]
12
10
8
6
4
2
0
Error bars denote full range
Min value = 5.074
Max value = 8.978
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 05:05:33 2008

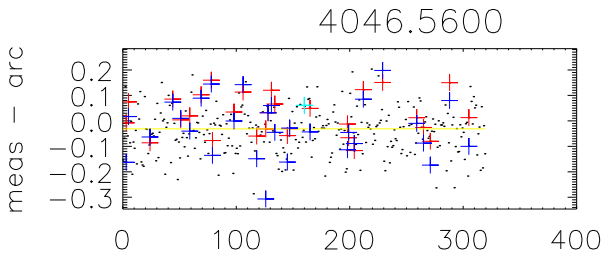

PLATE=2403 MJD=53789 Extraction chi^2 for sdR-b2-00037573.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

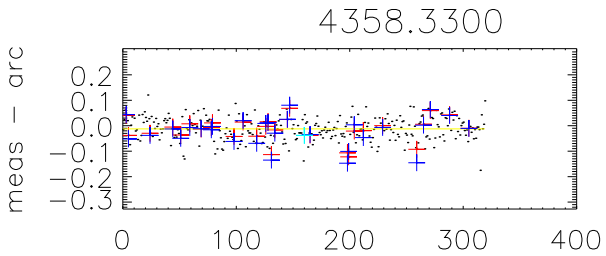

4046.5600
off: −0.04
sig: 0.024
4358.3300
off: −0.02
sig: 0.010
5460.9400
off: 0.07
sig: 0.008
5577.3390
off: 0.10
sig: 0.002
5889.9500
off: 0.20
sig: 0.006
5895.9240
off: 0.15
sig: 0.008

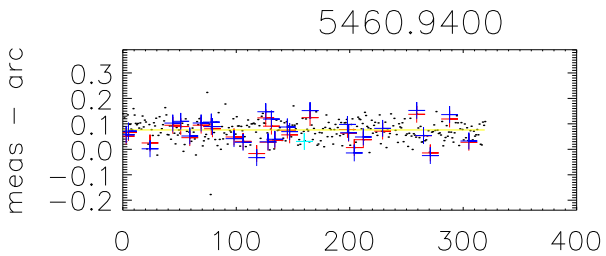

shift(pix)= 0.061
err(pix)= 0.031
oldshift(pix)=-0.038
160
140
120
100
80
60
40
20
4020
4030
4040
4050
4060
4070
4080

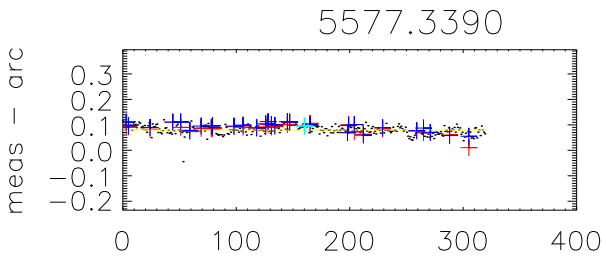

shift(pix)=−0.038
err(pix)= 0.012
oldshift(pix)=−0.021
160
140
120
100
80
60
40
20
4280
4300
4320
4340
4360
4380
4400
4420

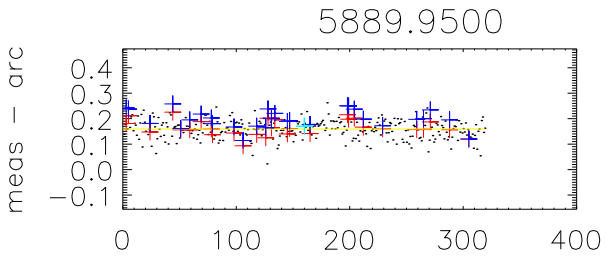

shift(pix)= 0.031
err(pix)= 0.010
oldshift(pix)= 0.070
160
140
120
100
80
60
40
20
5430
5440
5450
5460
5470
5480
5490

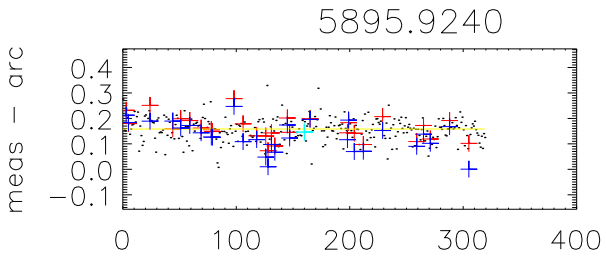

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

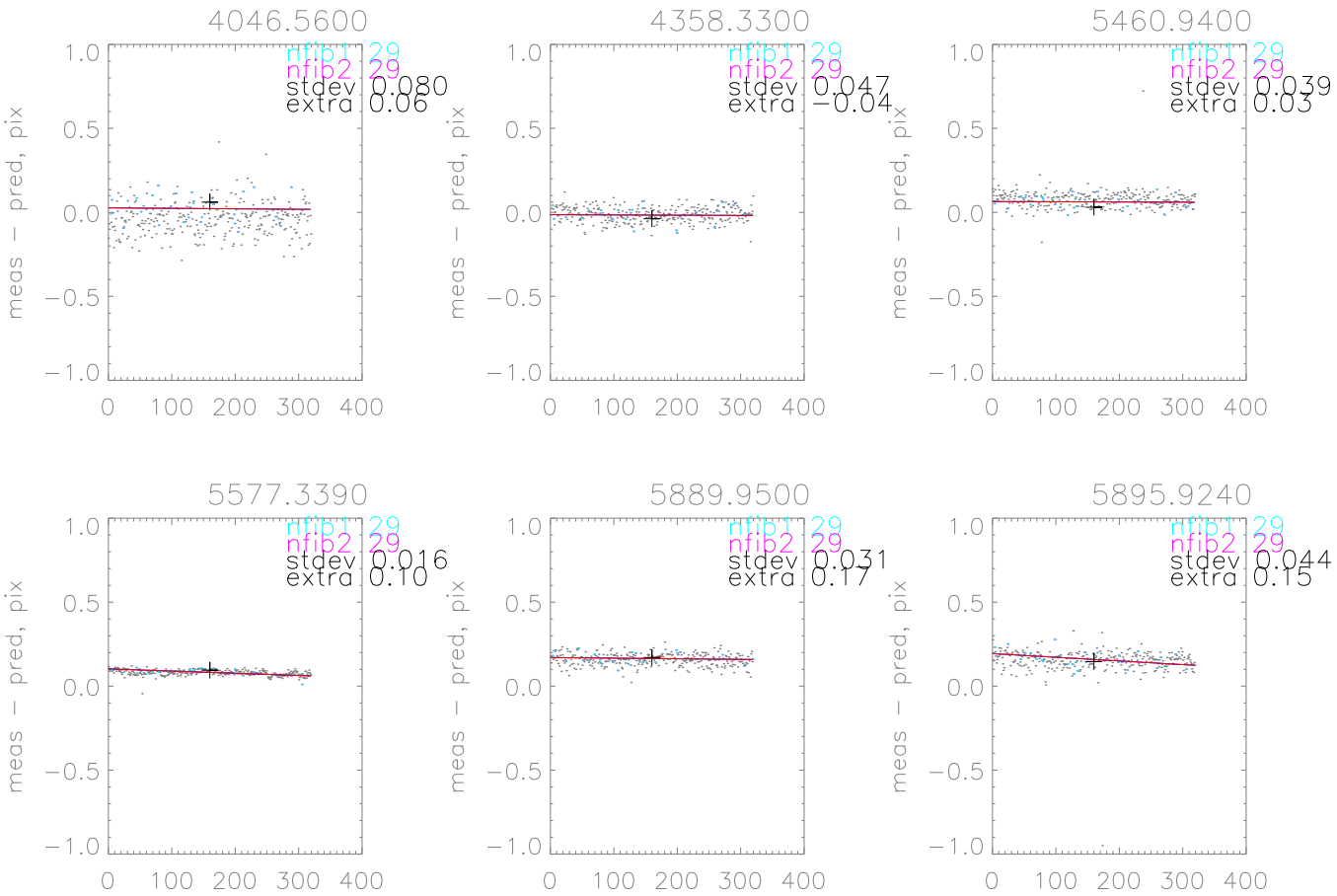

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

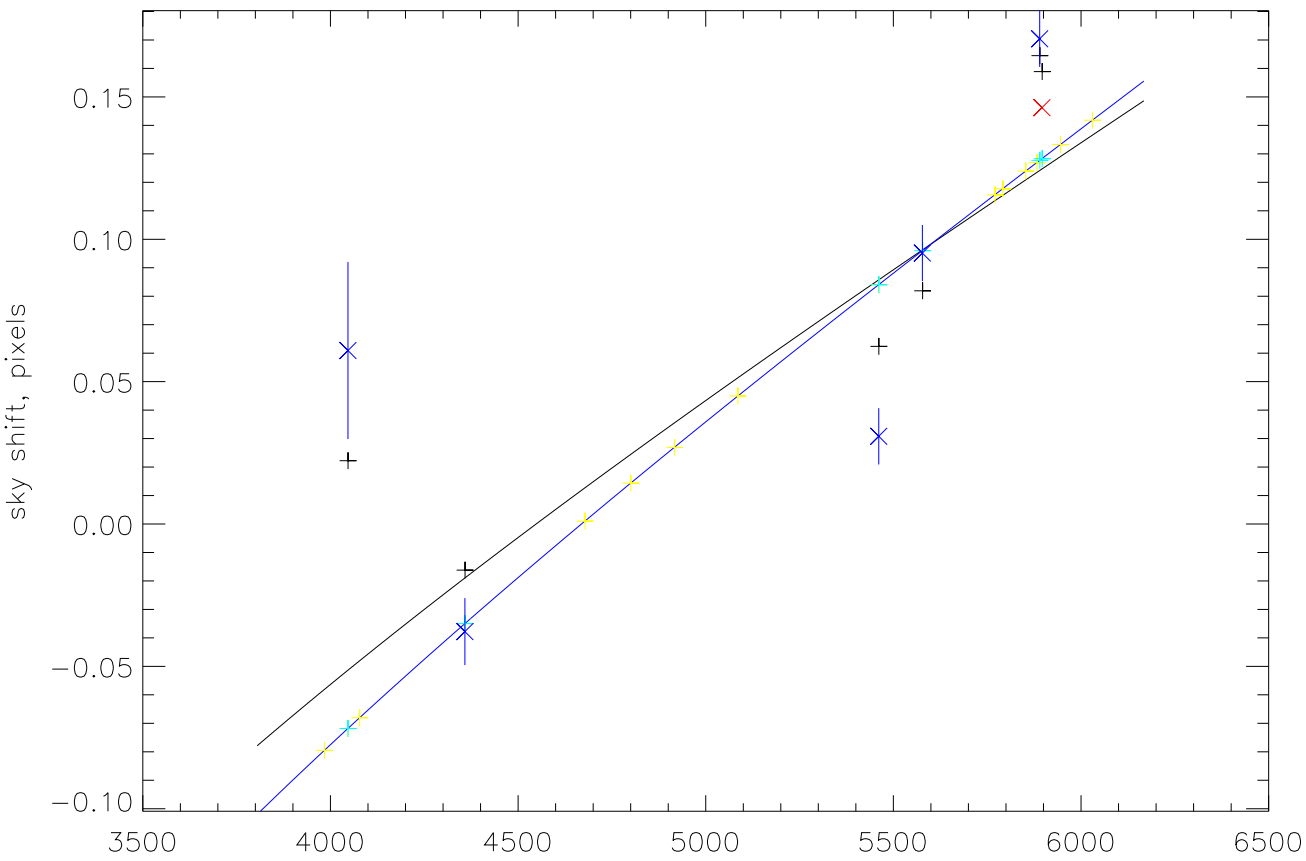

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

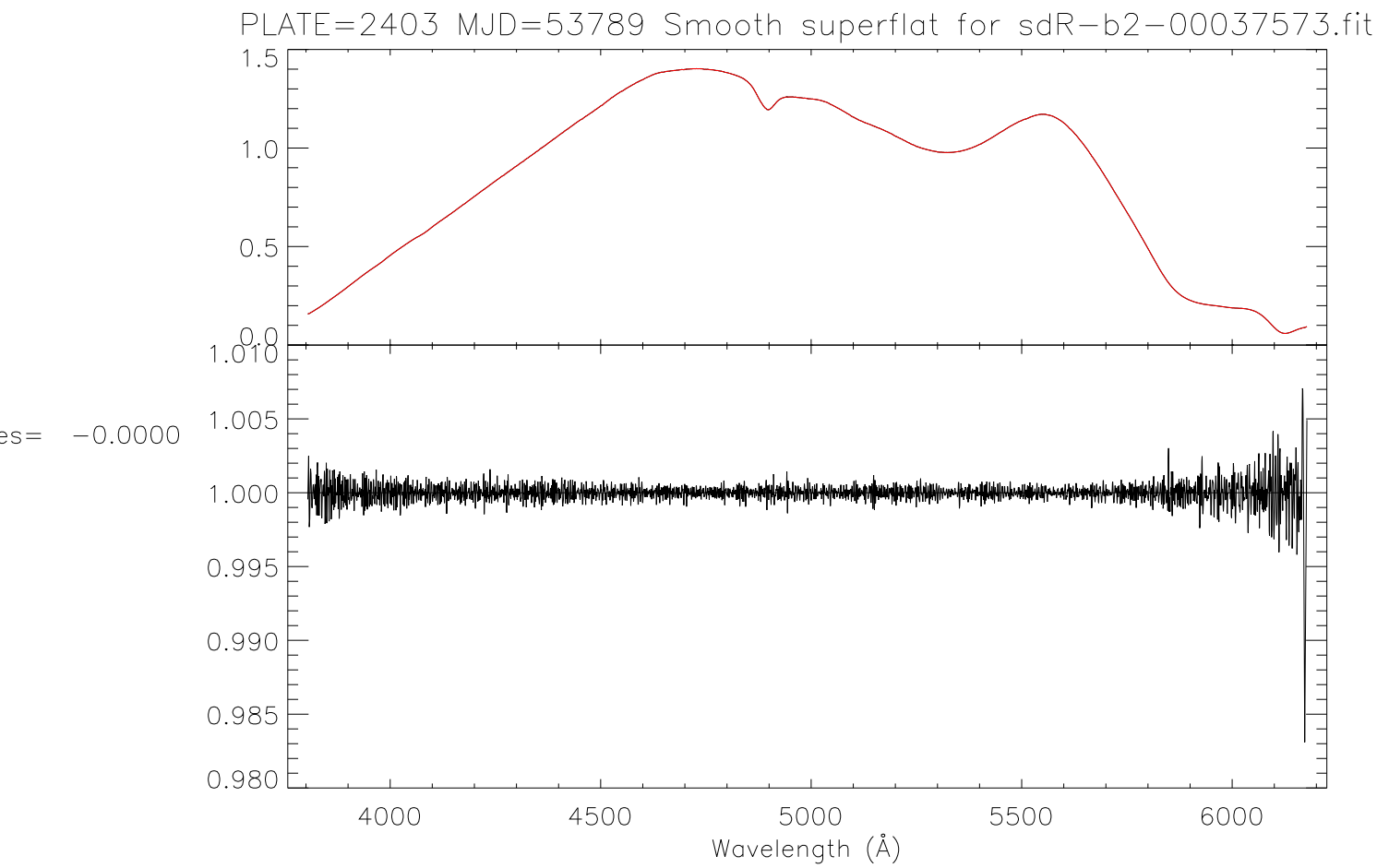

5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

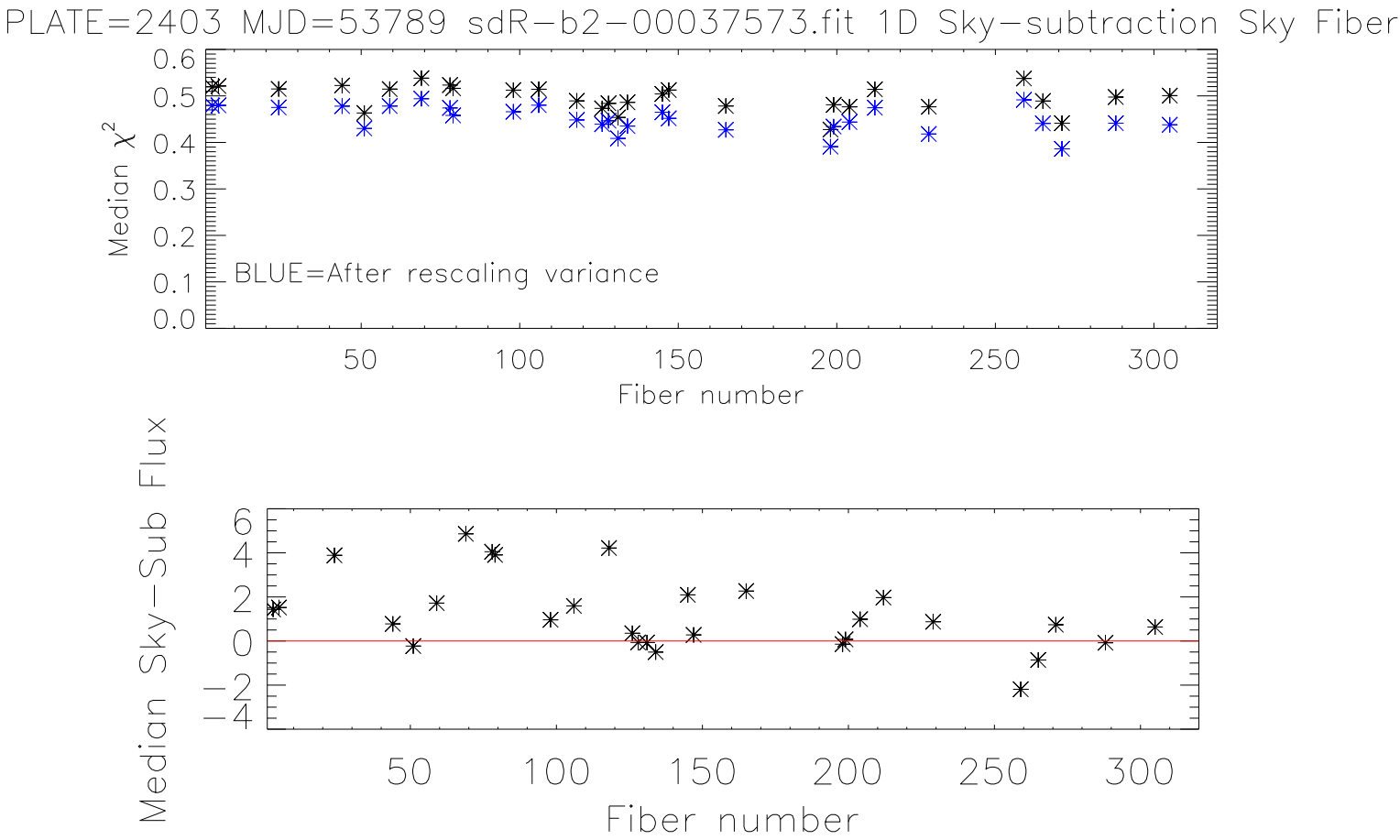

5889.9500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

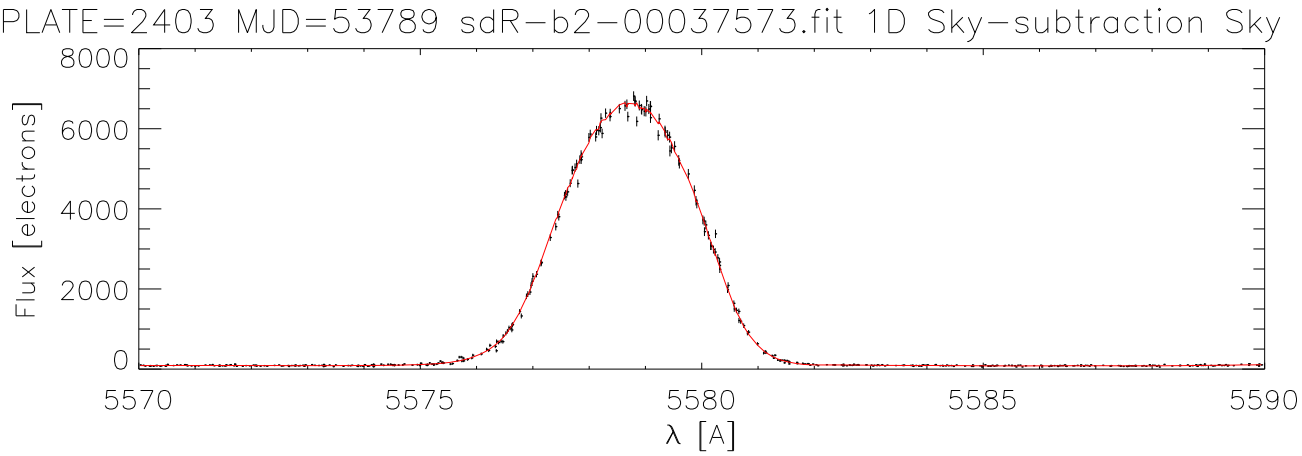

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

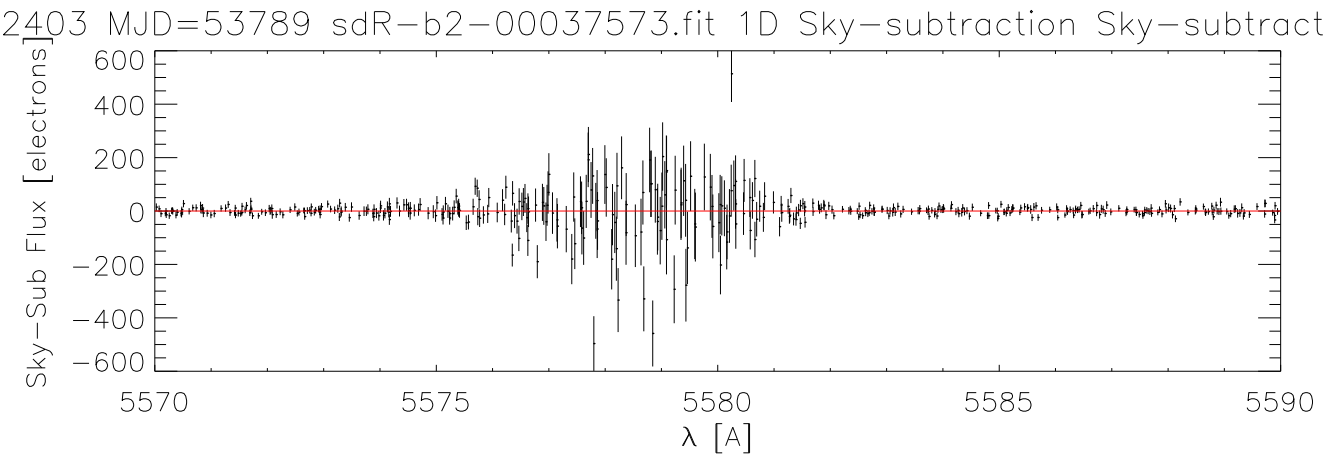

4046.5600
nfib1 29
nfib2 29
stdev 0.080
extra 0.06
4358.3300
nfib1 29
nfib2 29
stdev 0.047
extra −0.04
5460.9400
nfib1 29
nfib2 29
stdev 0.039
extra 0.03
5577.3390
nfib1 29
nfib2 29
stdev 0.016
extra 0.10
5889.9500
nfib1 29
nfib2 29
stdev 0.031
extra 0.17
5895.9240
nfib1 29
nfib2 29
stdev 0.044
extra 0.15
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

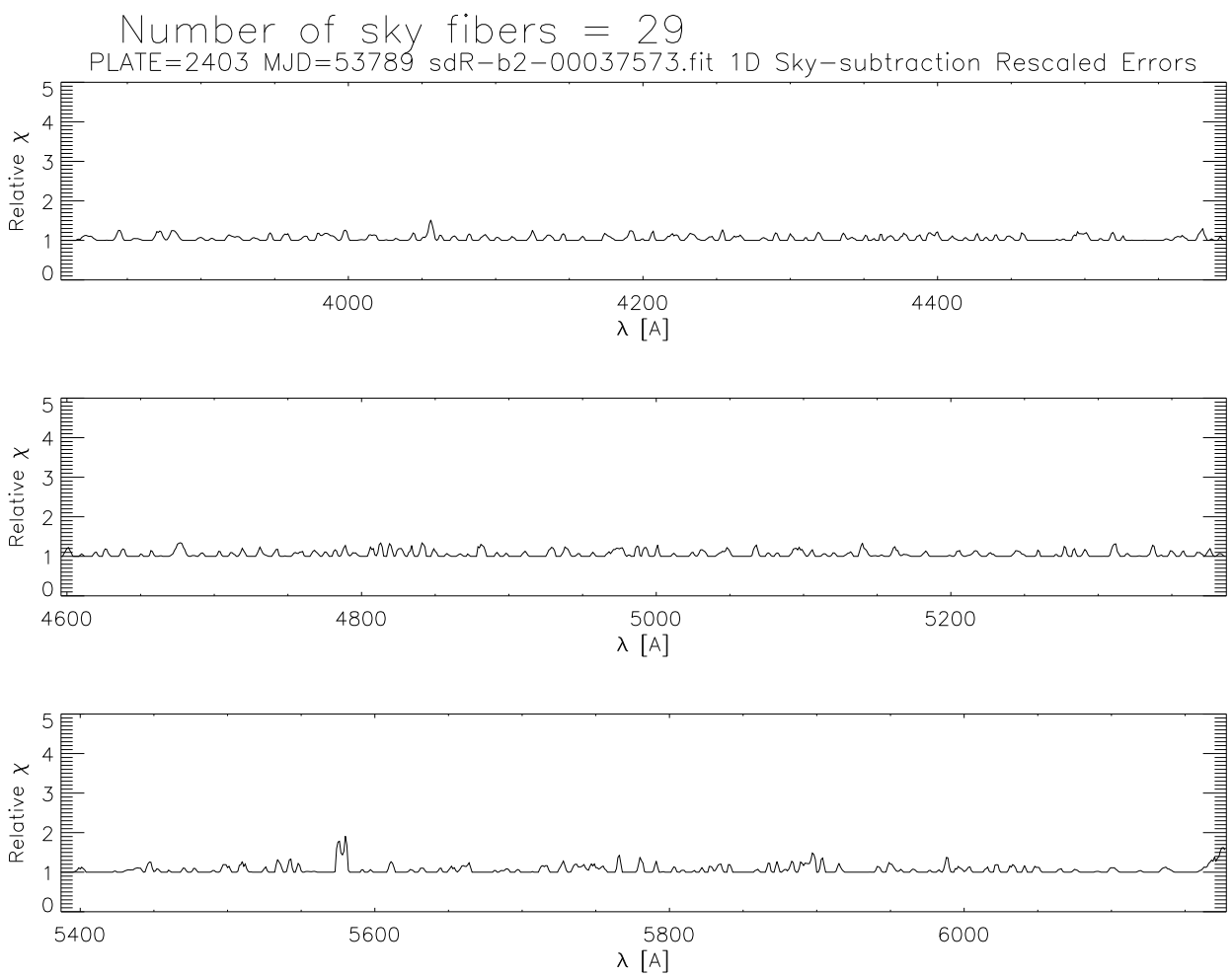

sky shift, pixels
0.15
0.10
0.05
0.00
−0.05
−0.10
3500
4000
4500
5000
5500
6000
6500

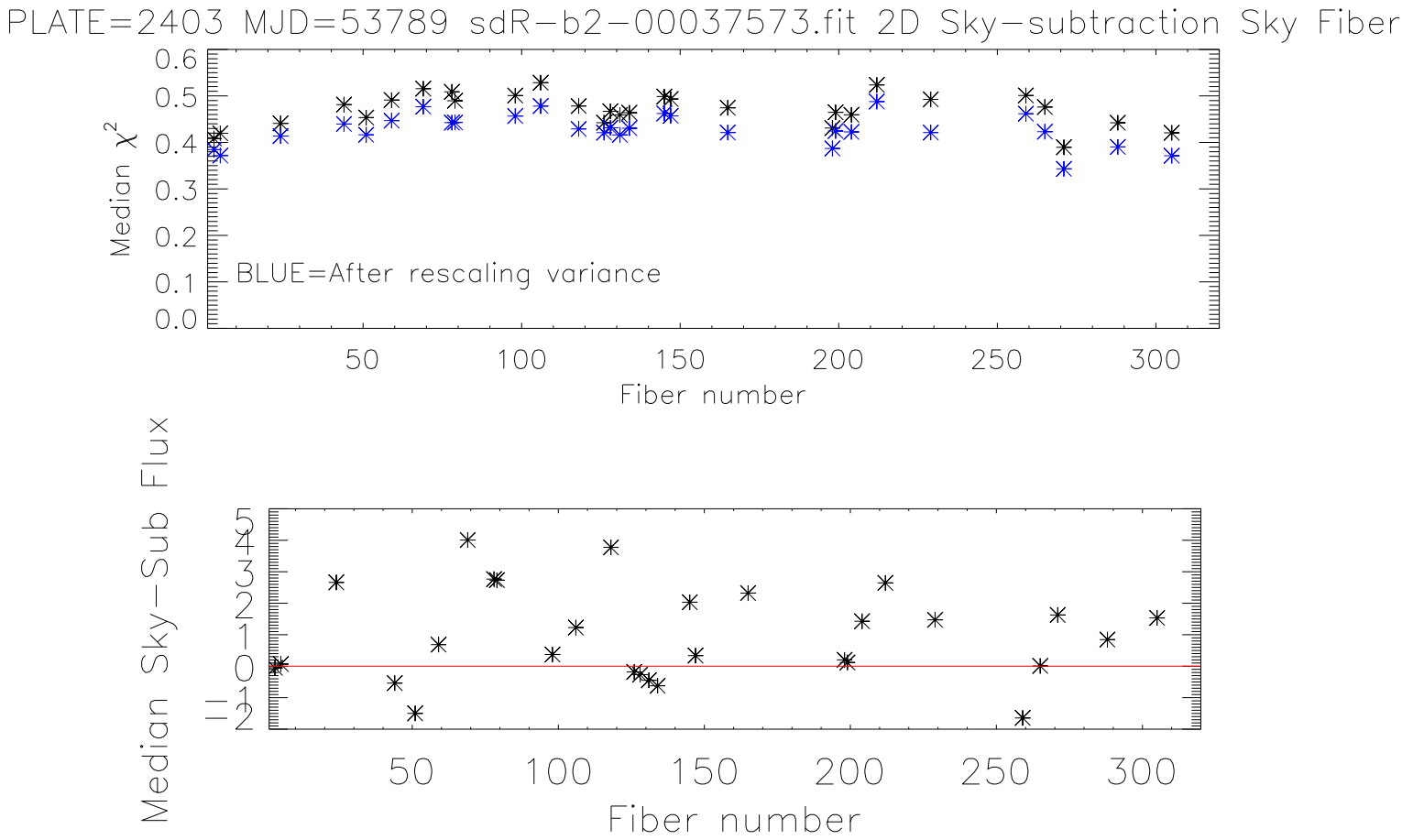

PLATE=2403 MJD=53789 Smooth superflat for sdR-b2-00037573.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
0.980
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

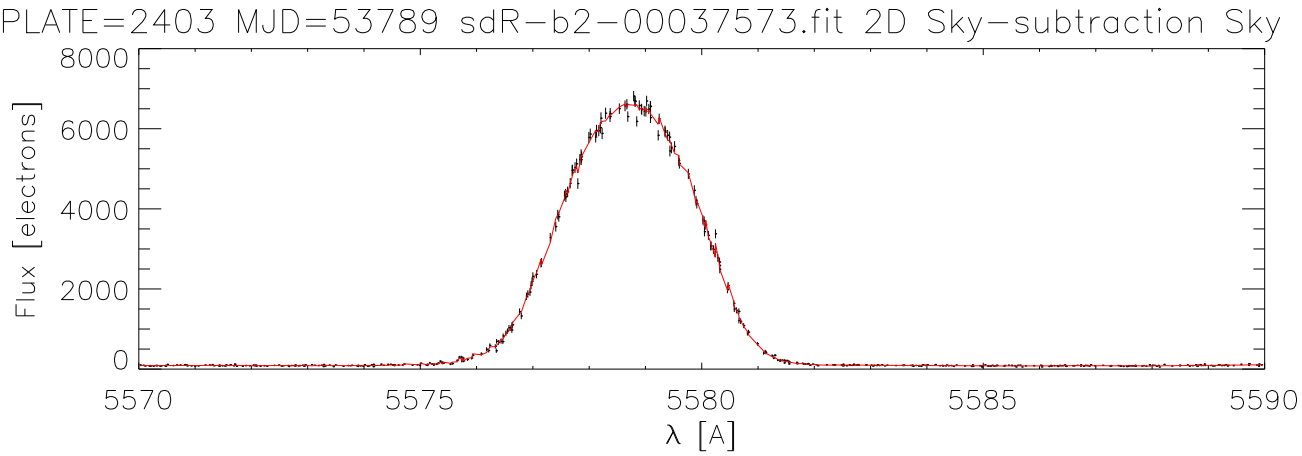

PLATE=2403 MJD=53789 sdR-b2-00037573.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

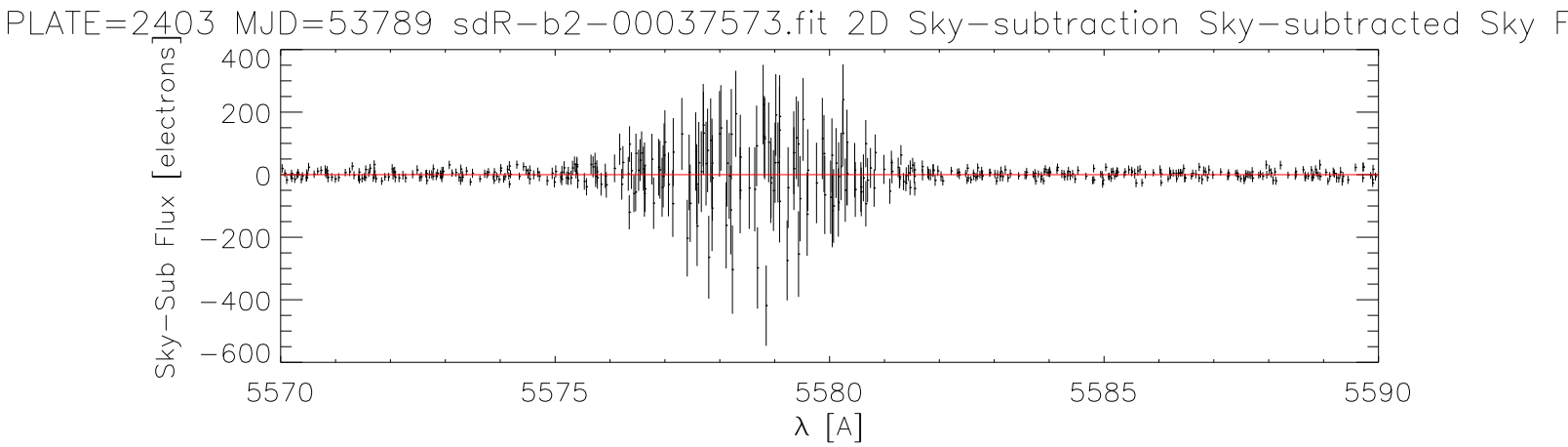

PLATE=2403 MJD=53789 sdR-b2-00037573.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

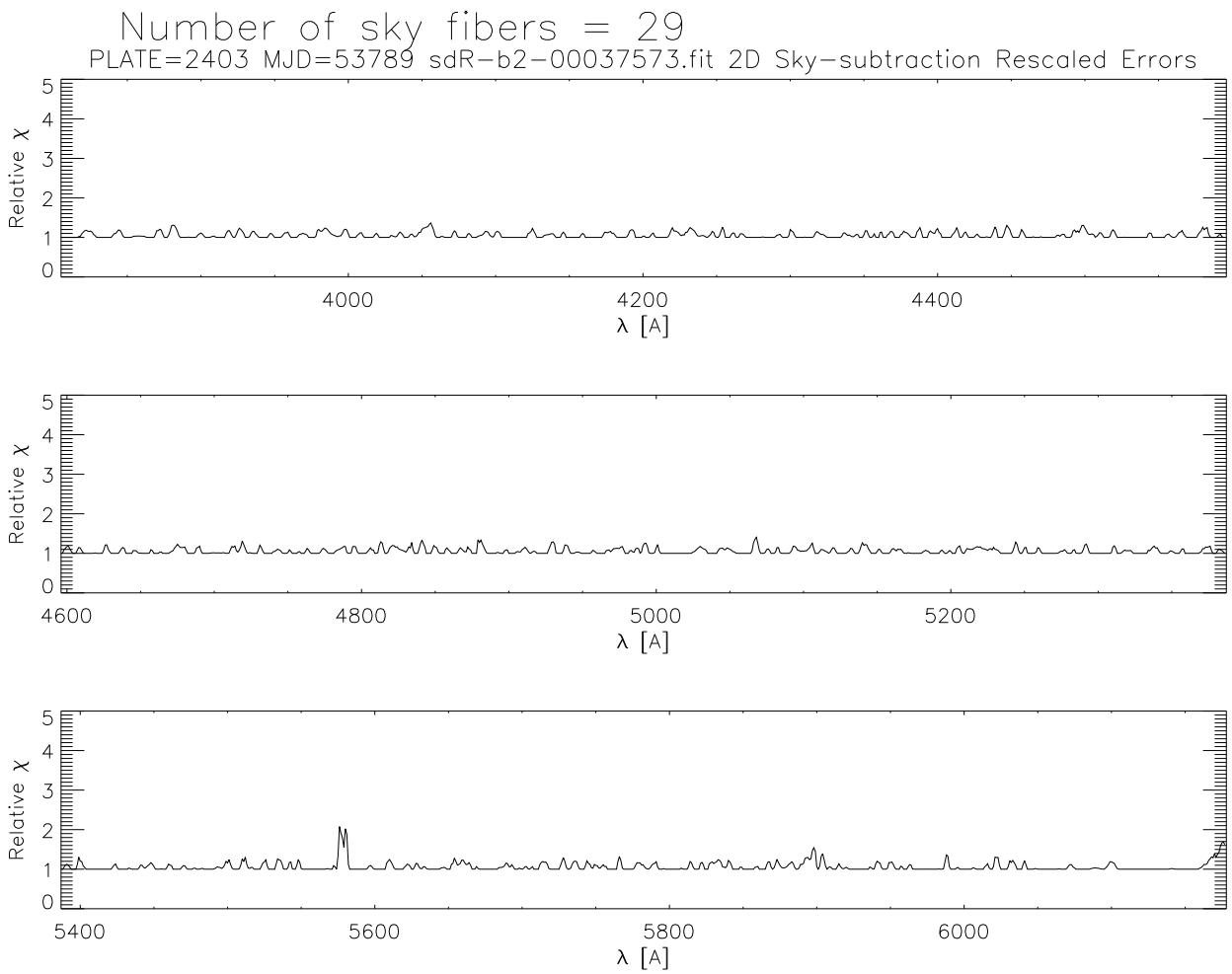

PLATE=2403 MJD=53789 sdR-b2-00037573.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

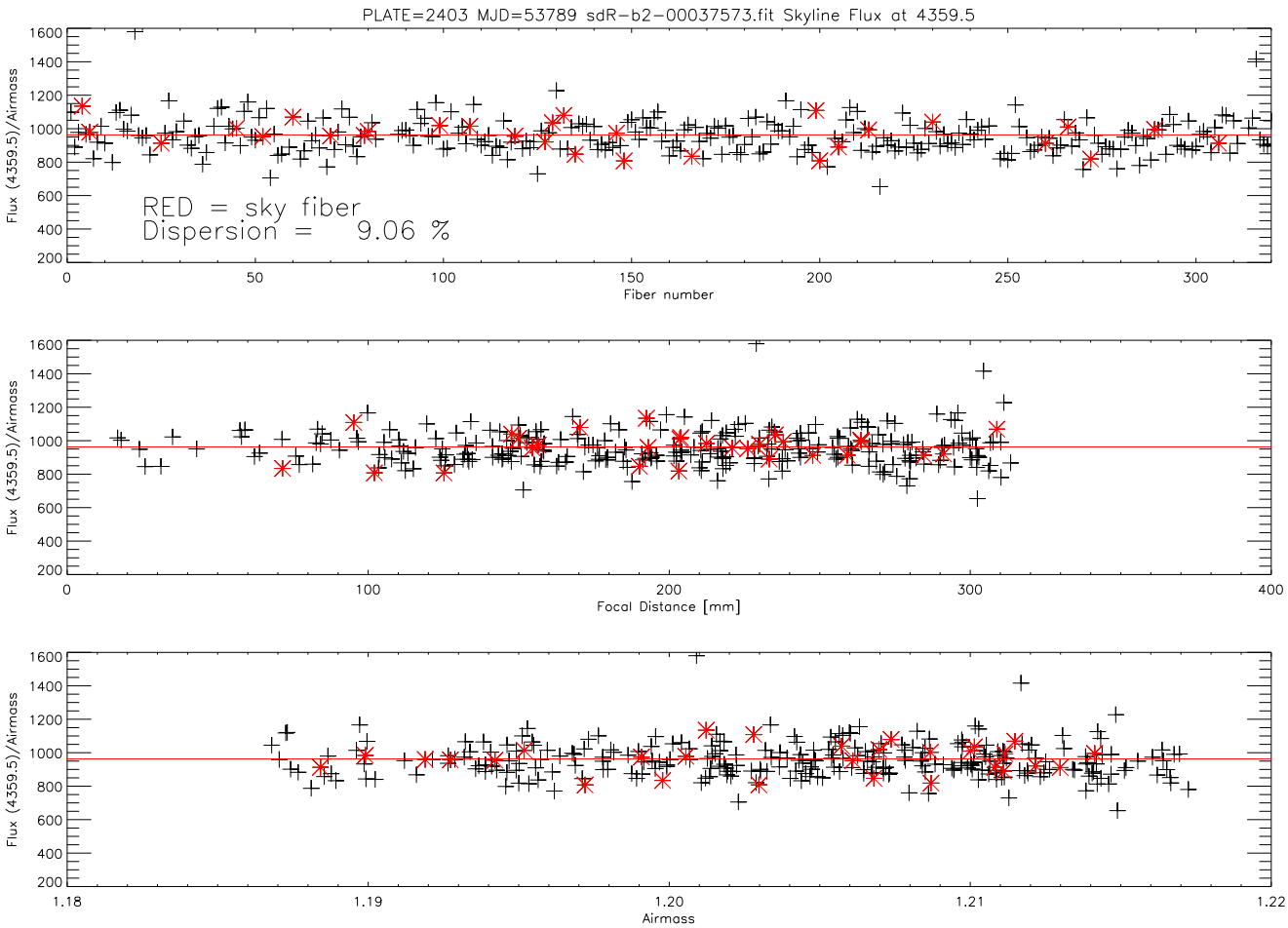

Number of sky fibers = 29
PLATE=2403 MJD=53789 sdR-b2-00037573.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

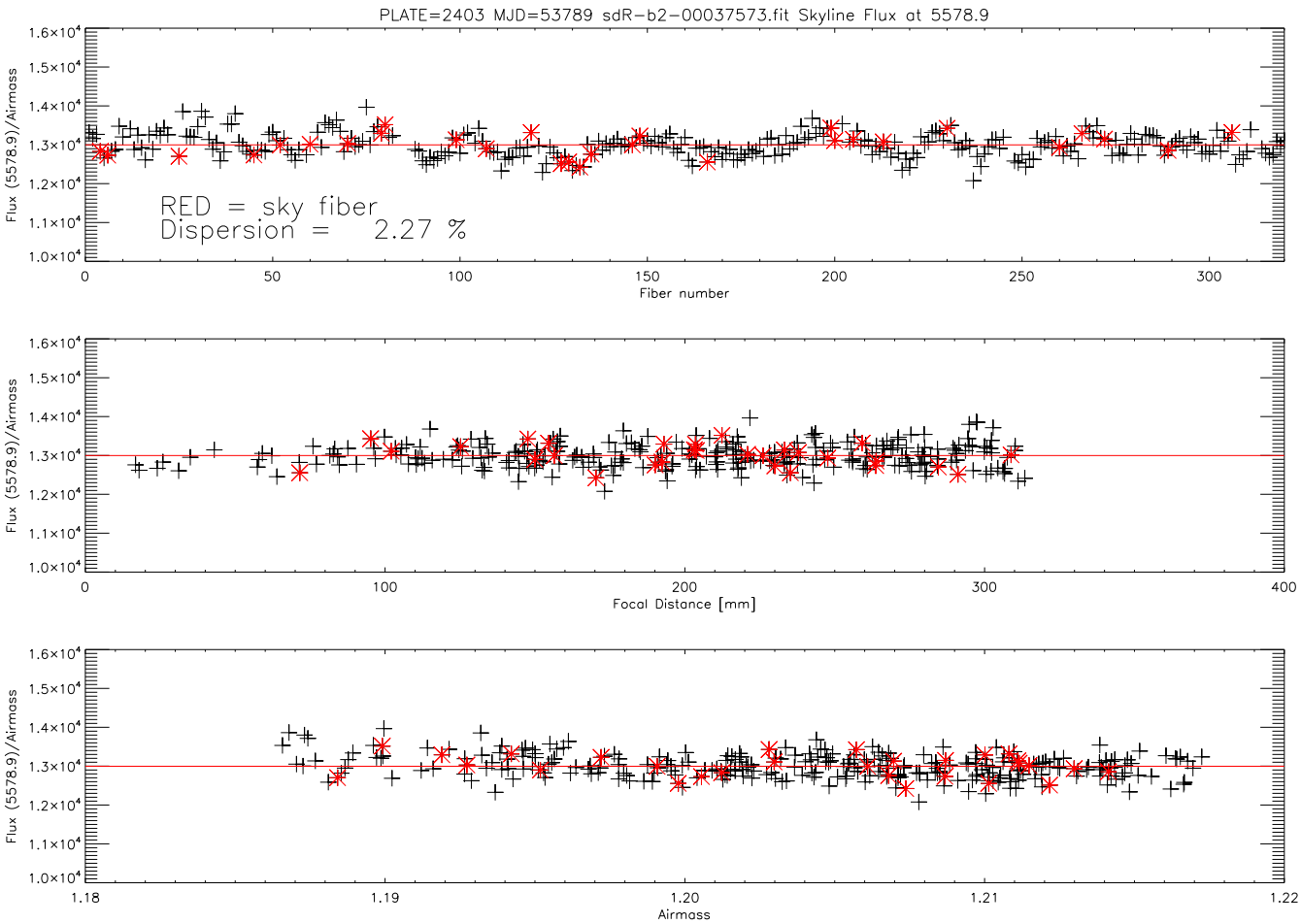

PLATE=2403 MJD=53789 sdR-b2-00037573.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
4
5
50
100
150
200
250
300
Fiber number

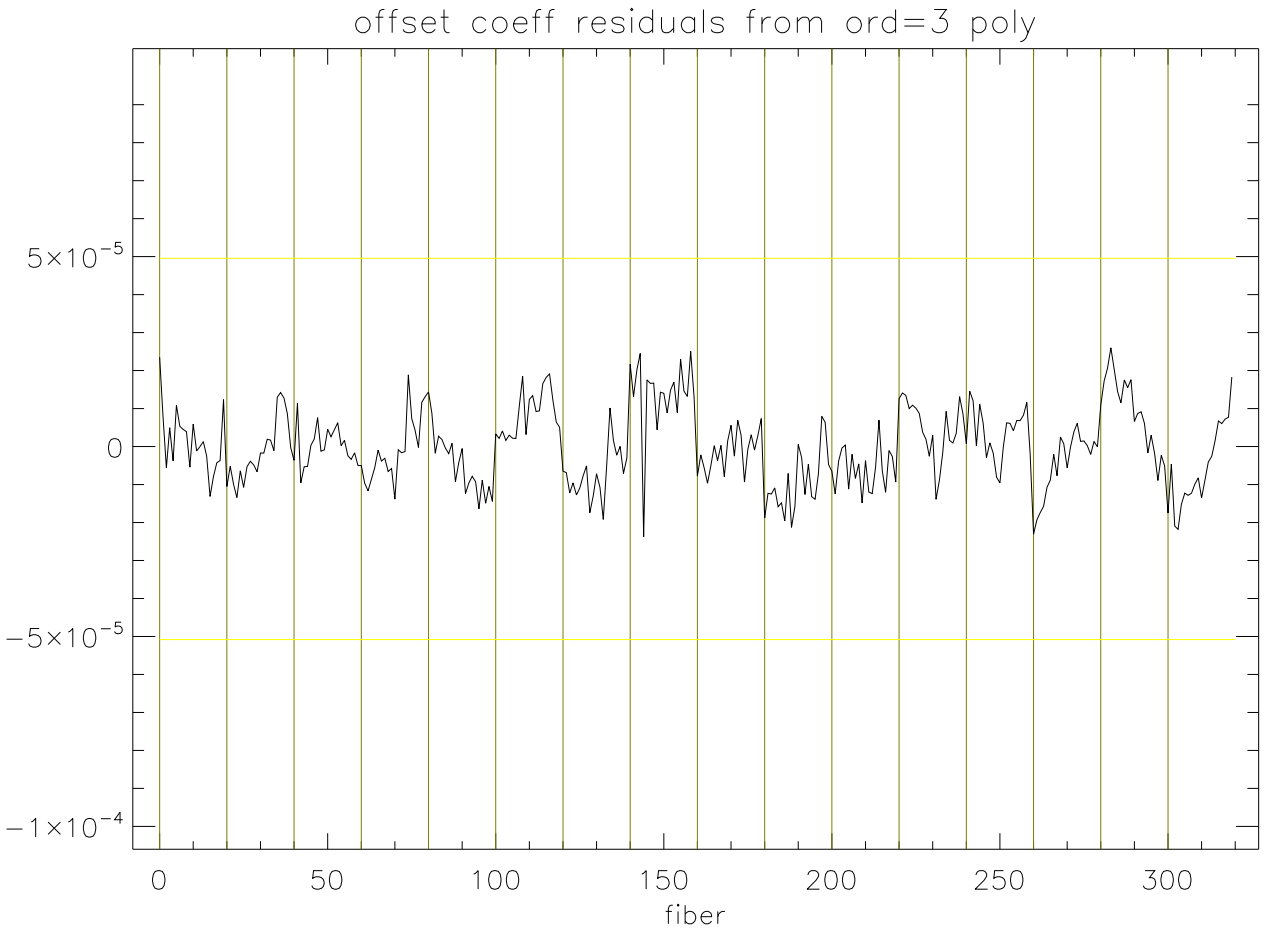

PLATE=2403 MJD=53789 sdR-b2-00037573.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

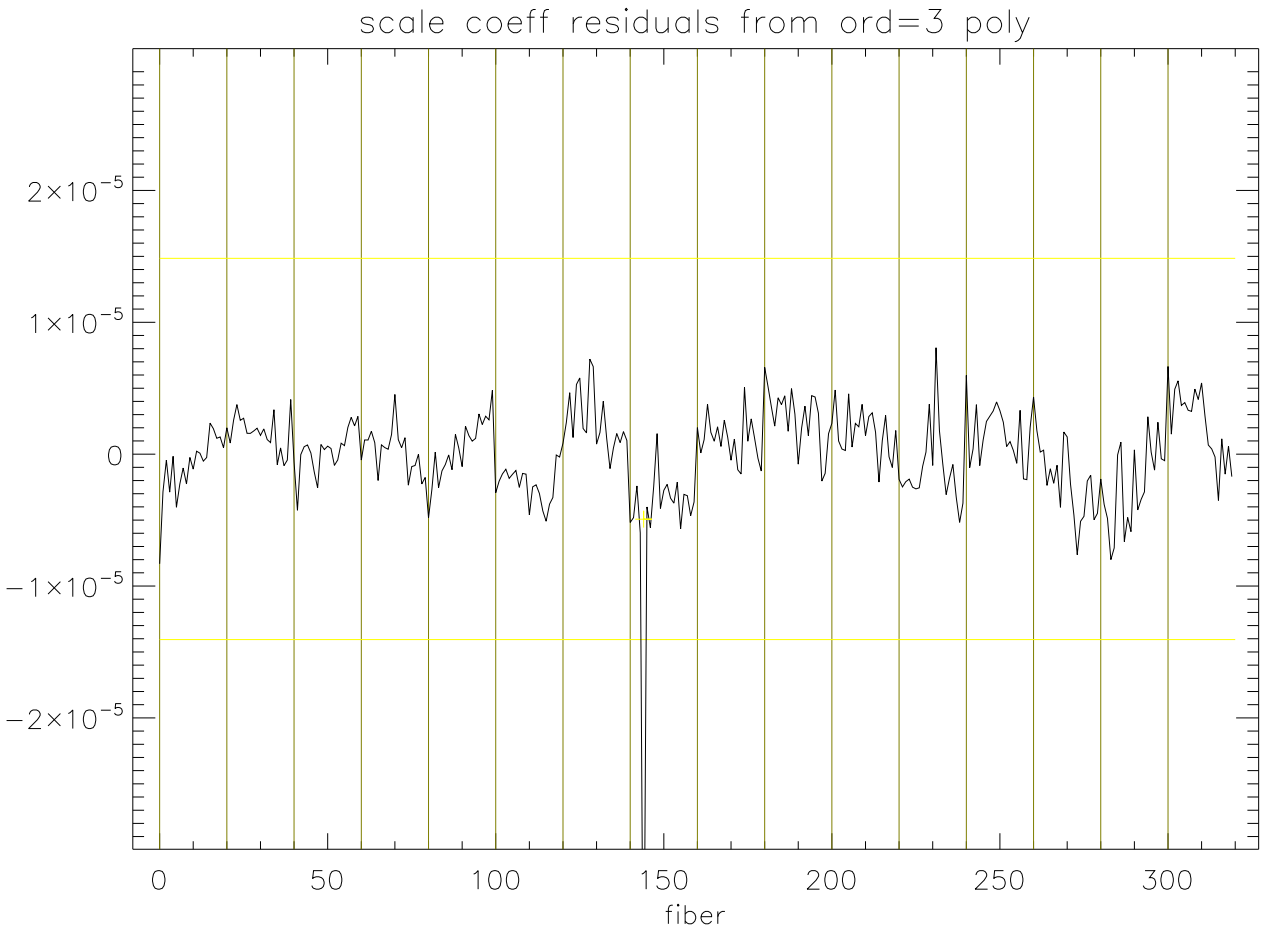

PLATE=2403 MJD=53789 sdR-b2-00037573.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

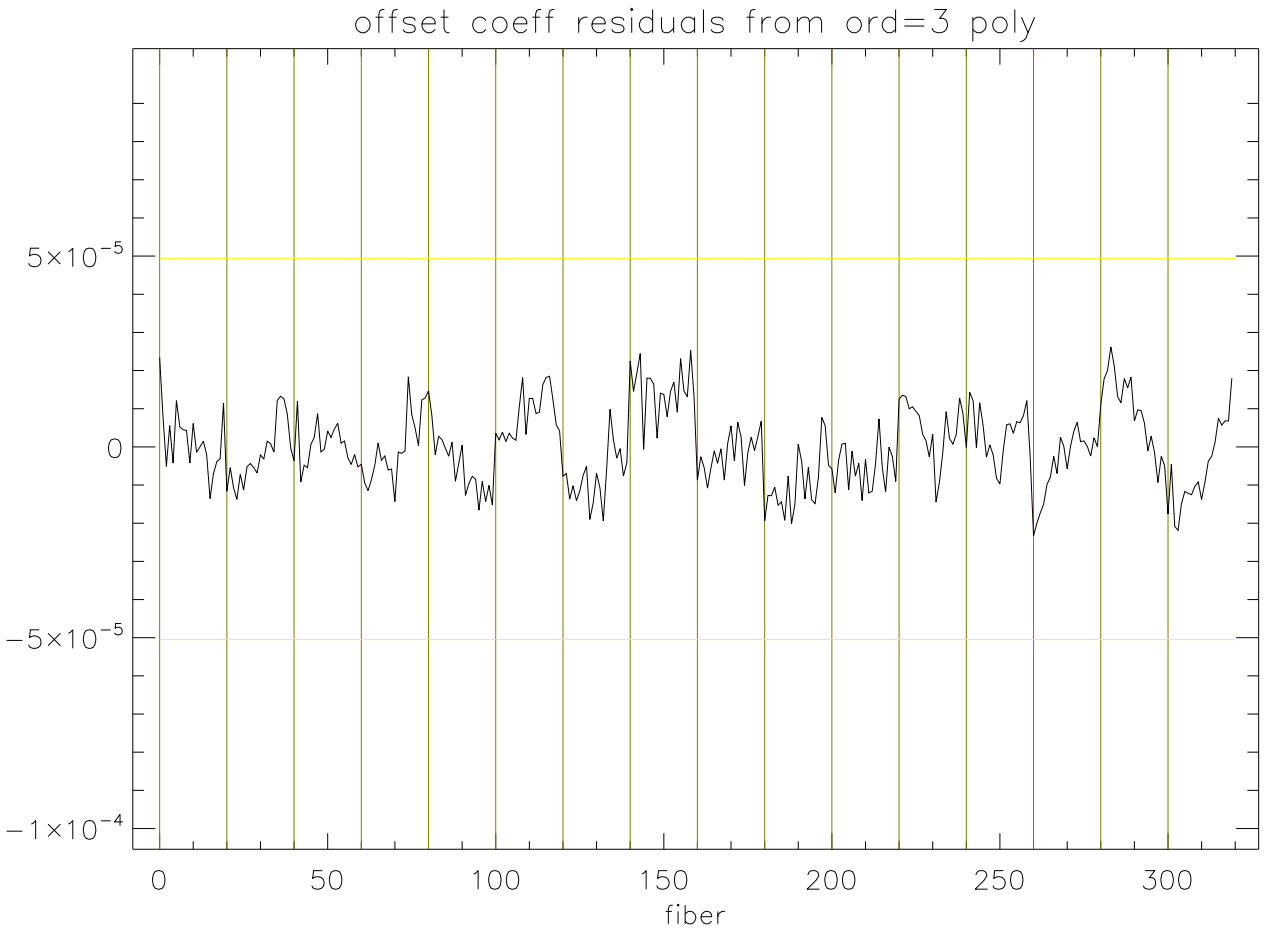

Number of sky fibers = 29
PLATE=2403 MJD=53789 sdR-b2-00037573.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

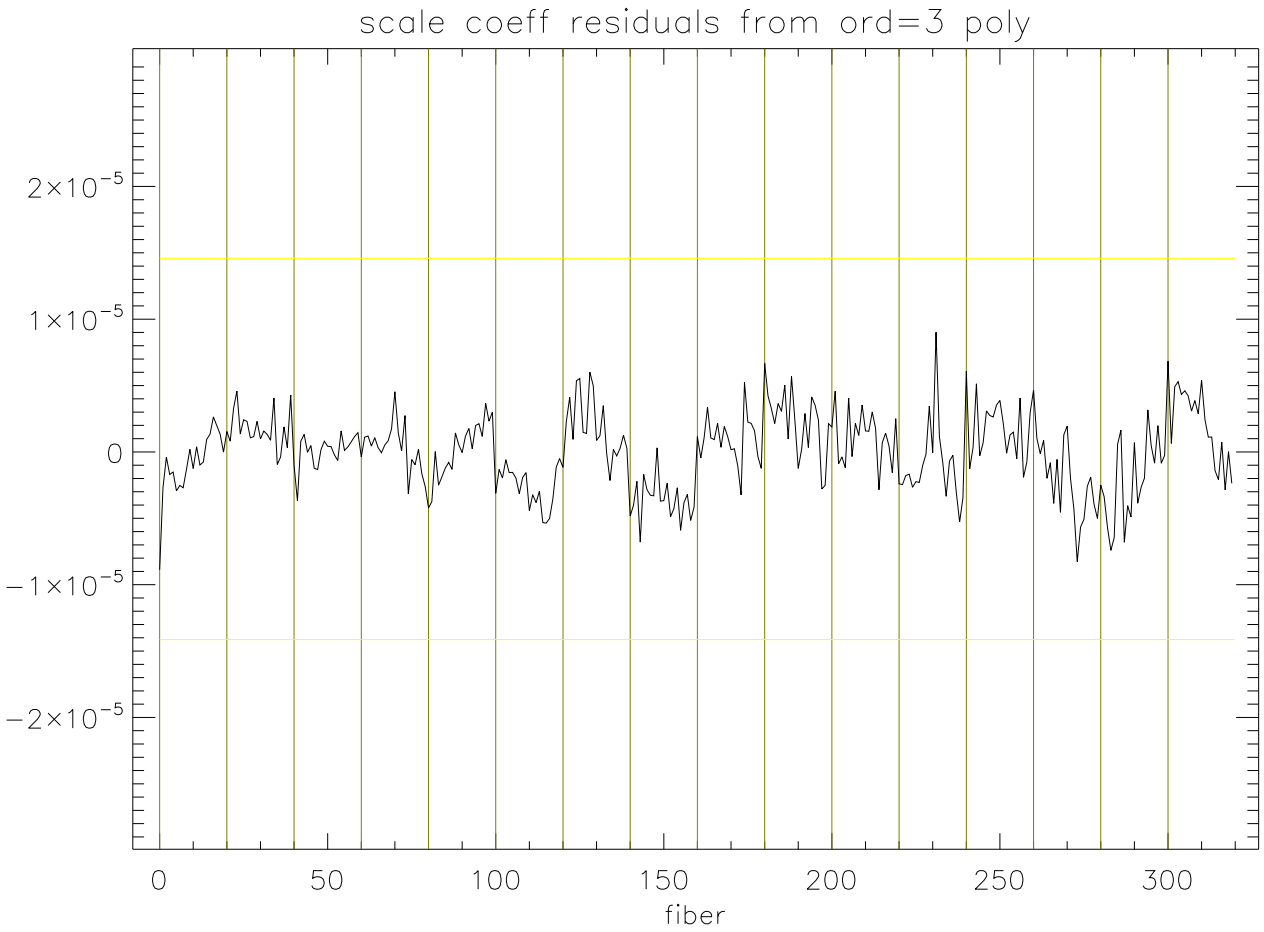

PLATE=2403 MJD=53789 sdR-b2-00037573.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 9.06 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

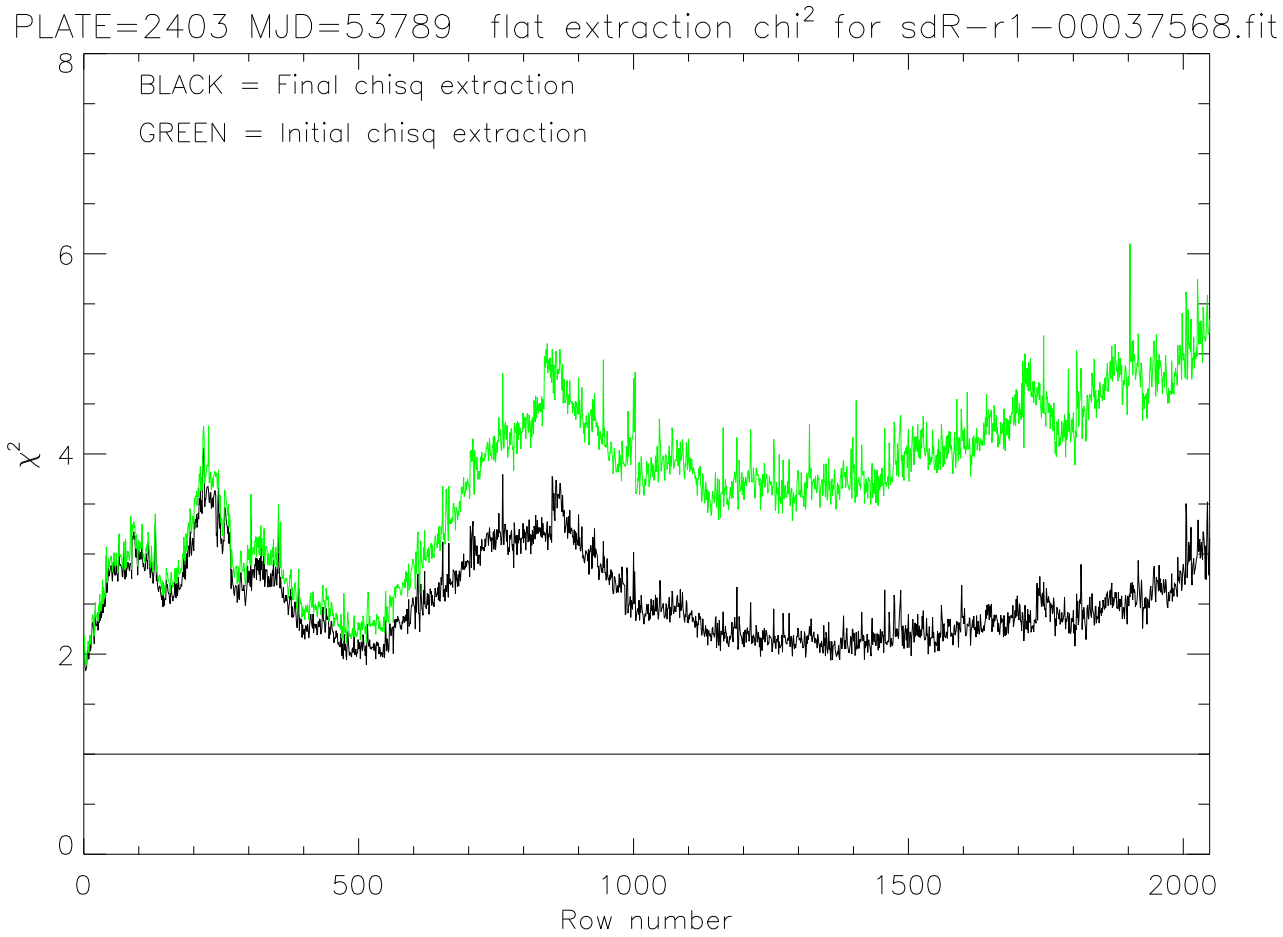

PLATE=2403 MJD=53789 sdR-b2-00037573.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.27 %
Fiber number
Focal Distance [mm]
Airmass

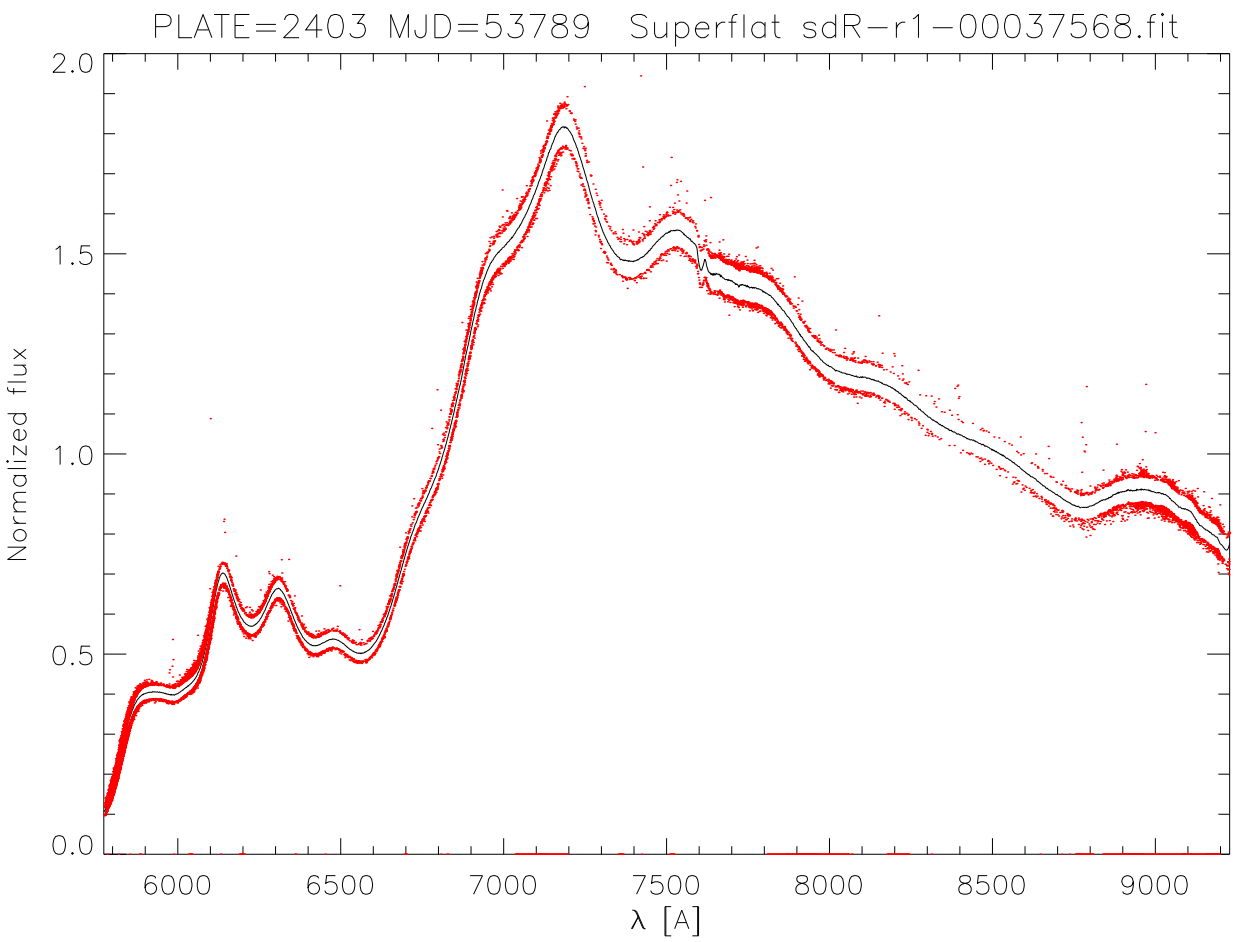

offset coeff residuals from ord=3 poly
5×10⁻⁵
0
−5×10⁻⁵
−1×10⁻⁴
0
50
100
150
200
250
300
fiber

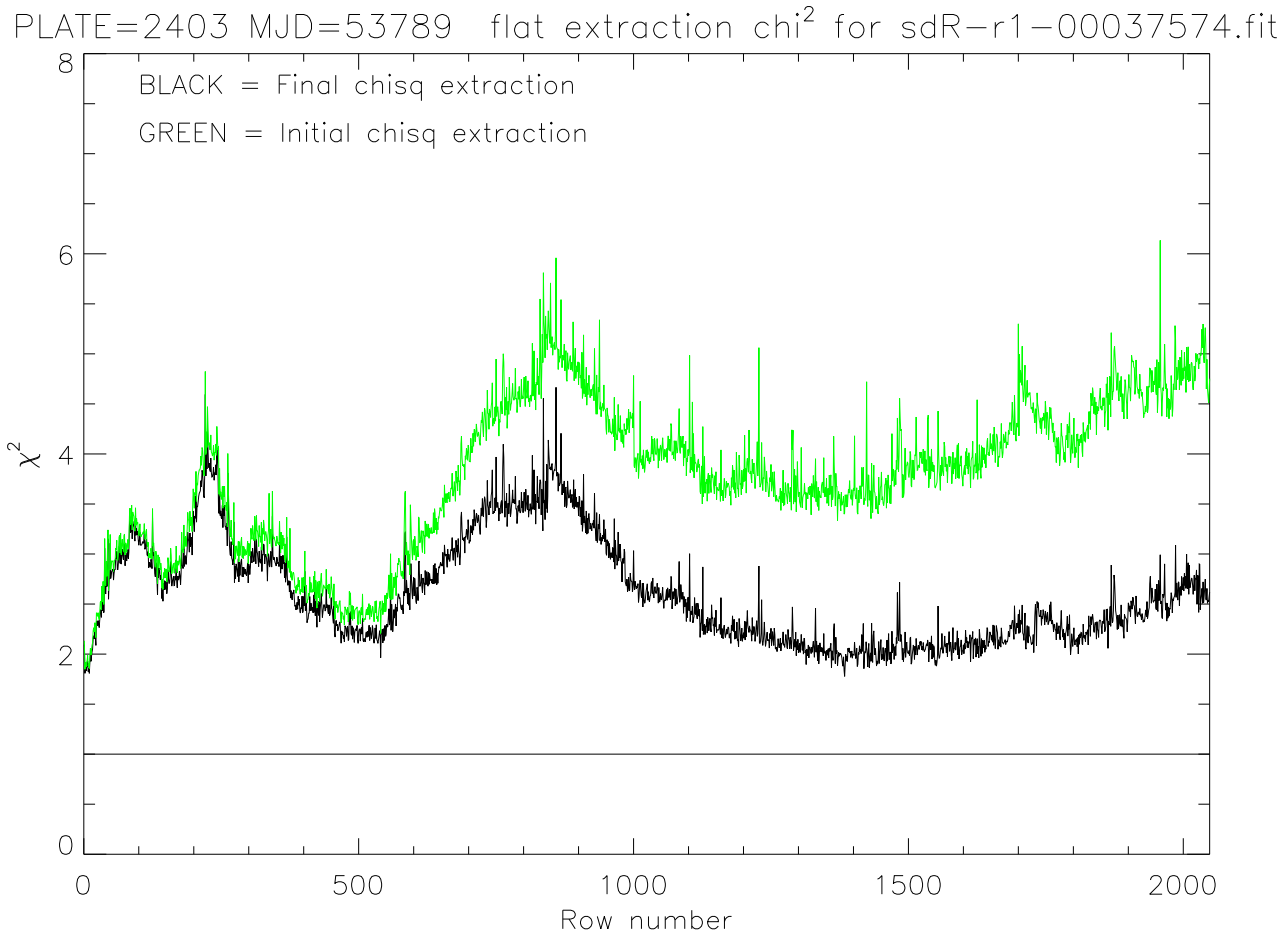

scale coeff residuals from ord=3 poly
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

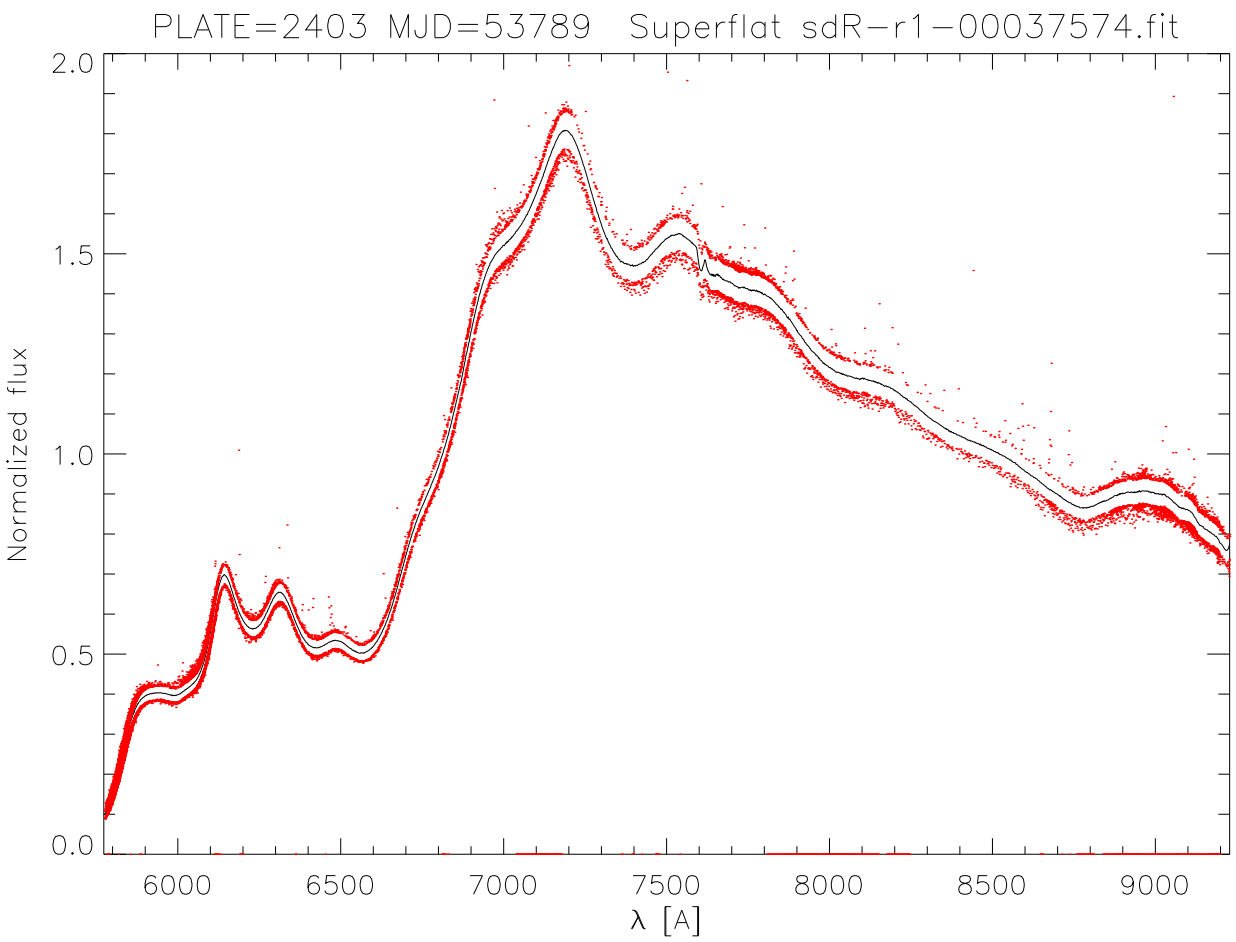

offset coeff residuals from ord=3 poly
5×10⁻⁵
0
−5×10⁻⁵
−1×10⁻⁴
0
50
100
150
200
250
300
fiber

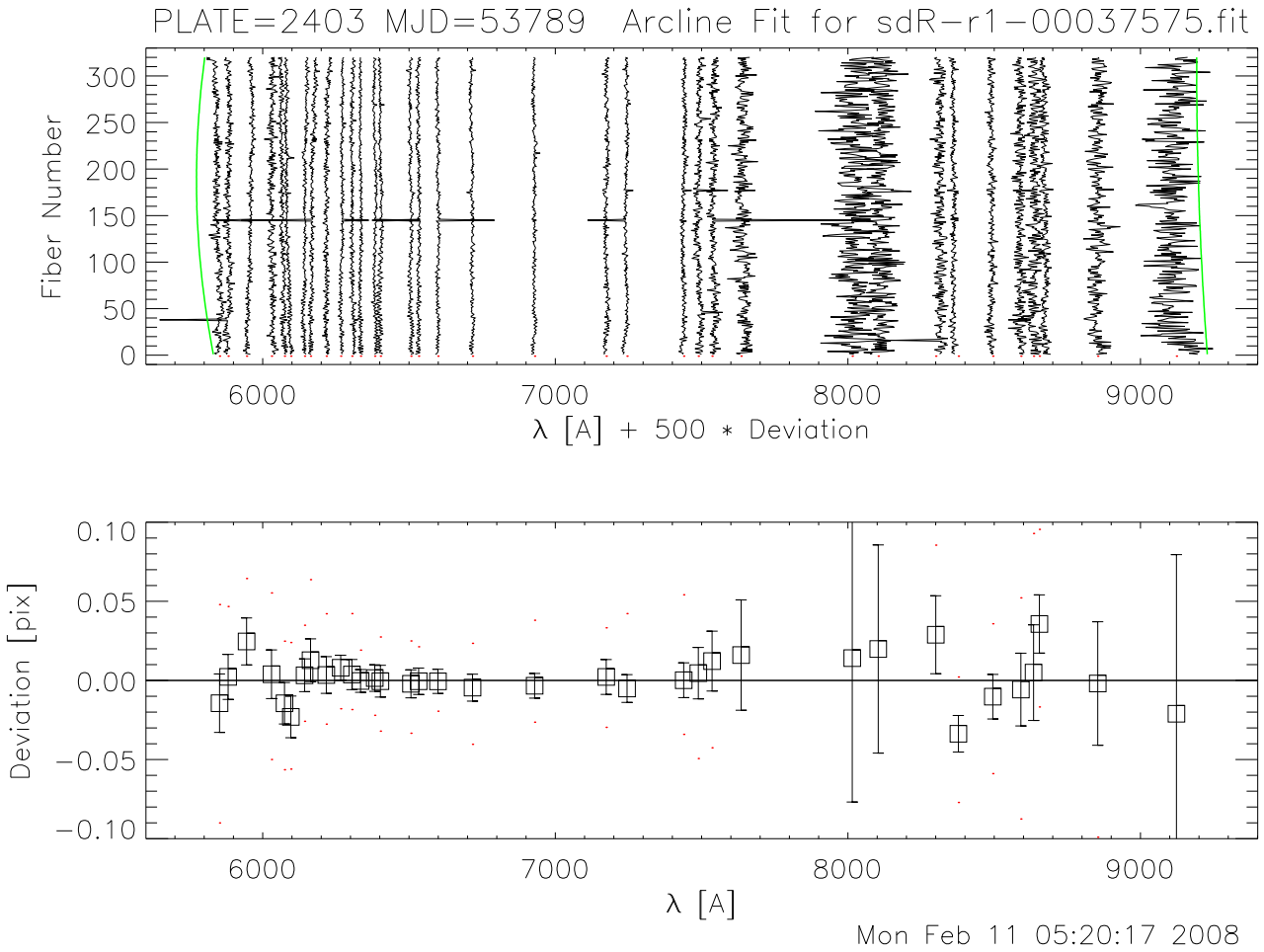

scale coeff residuals from ord=3 poly
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

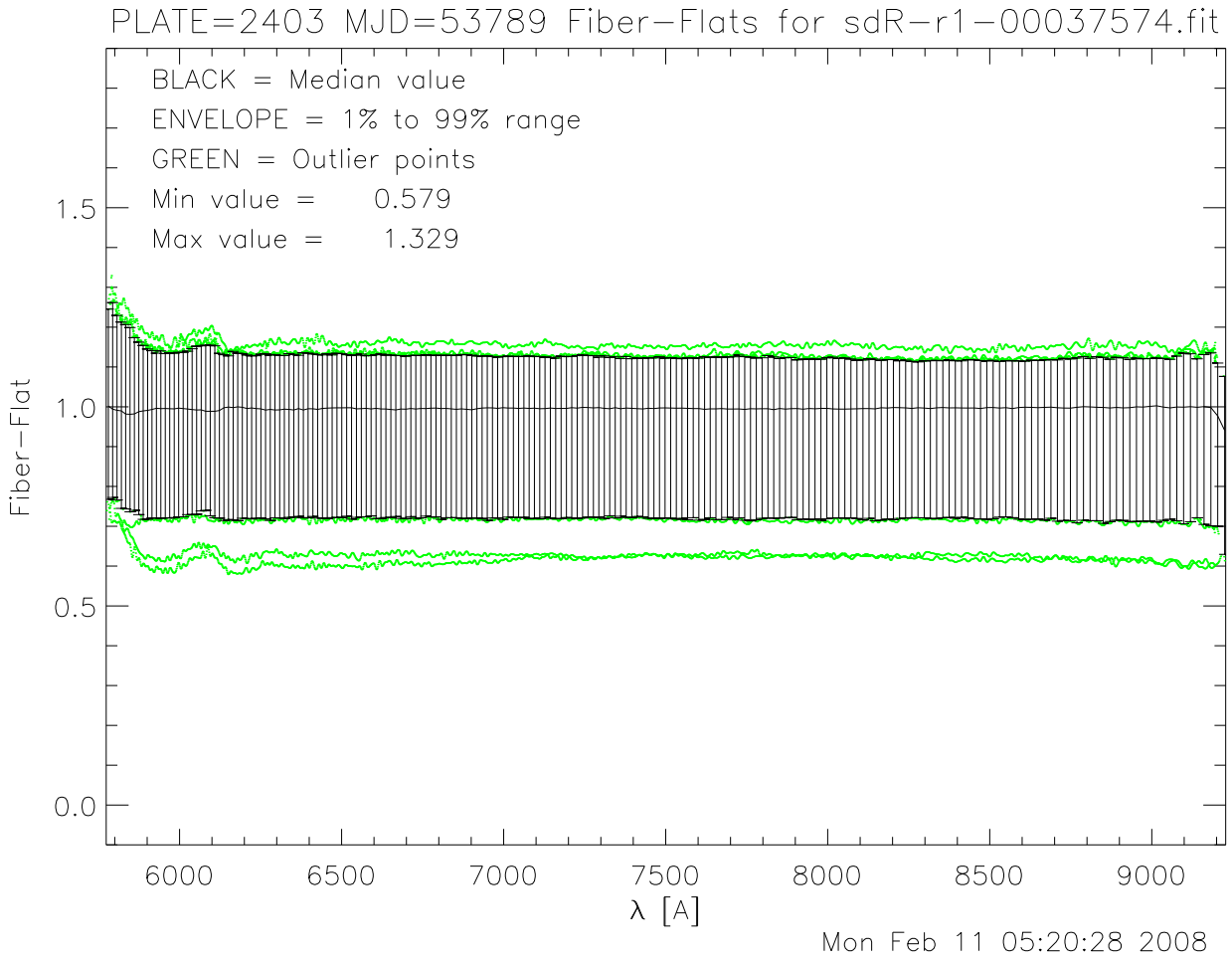

PLATE=2403 MJD=53789 flat extraction chi^2 for sdR−r1−00037568.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

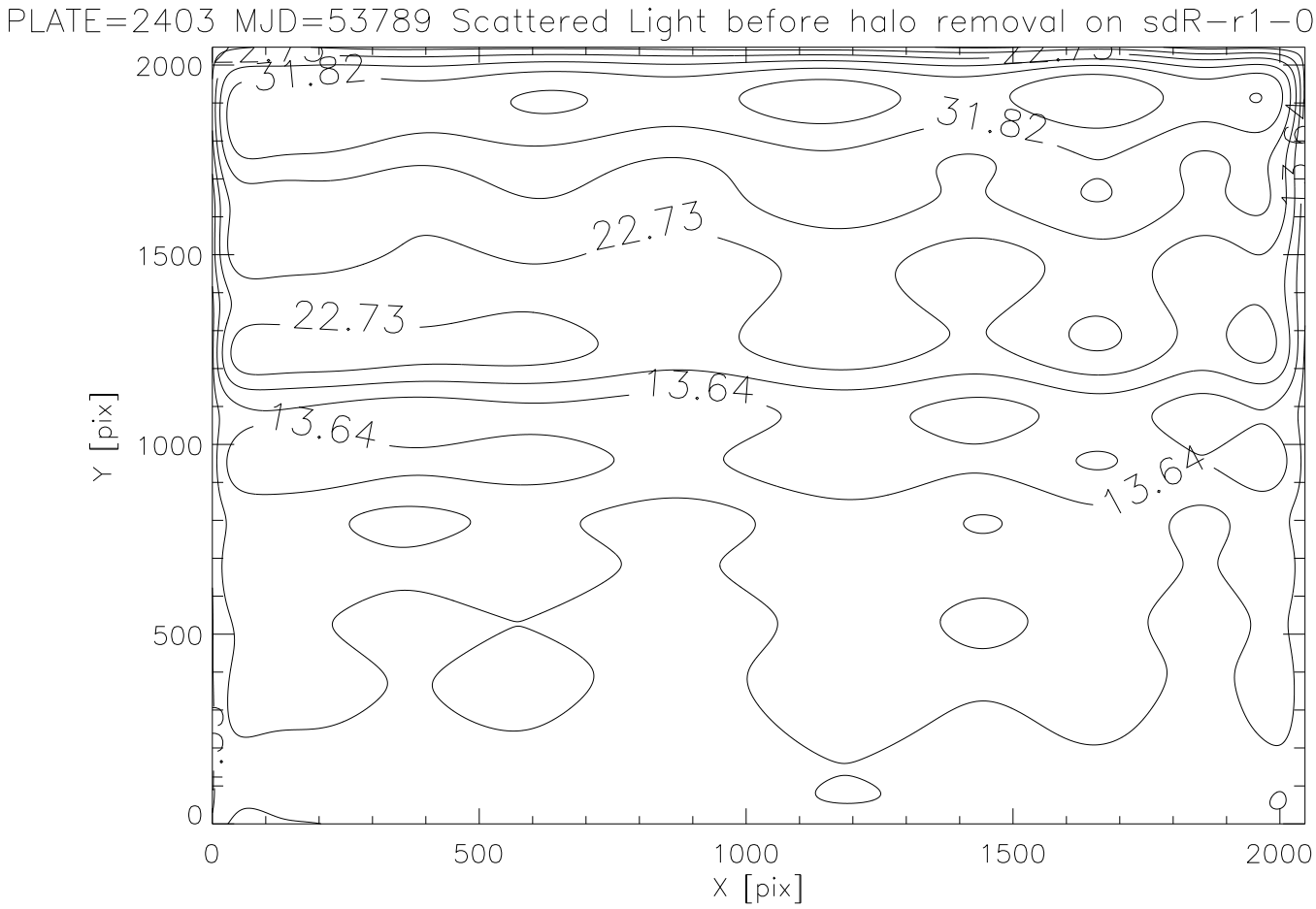

PLATE=2403 MJD=53789 Superflat sdR-r1-00037568.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

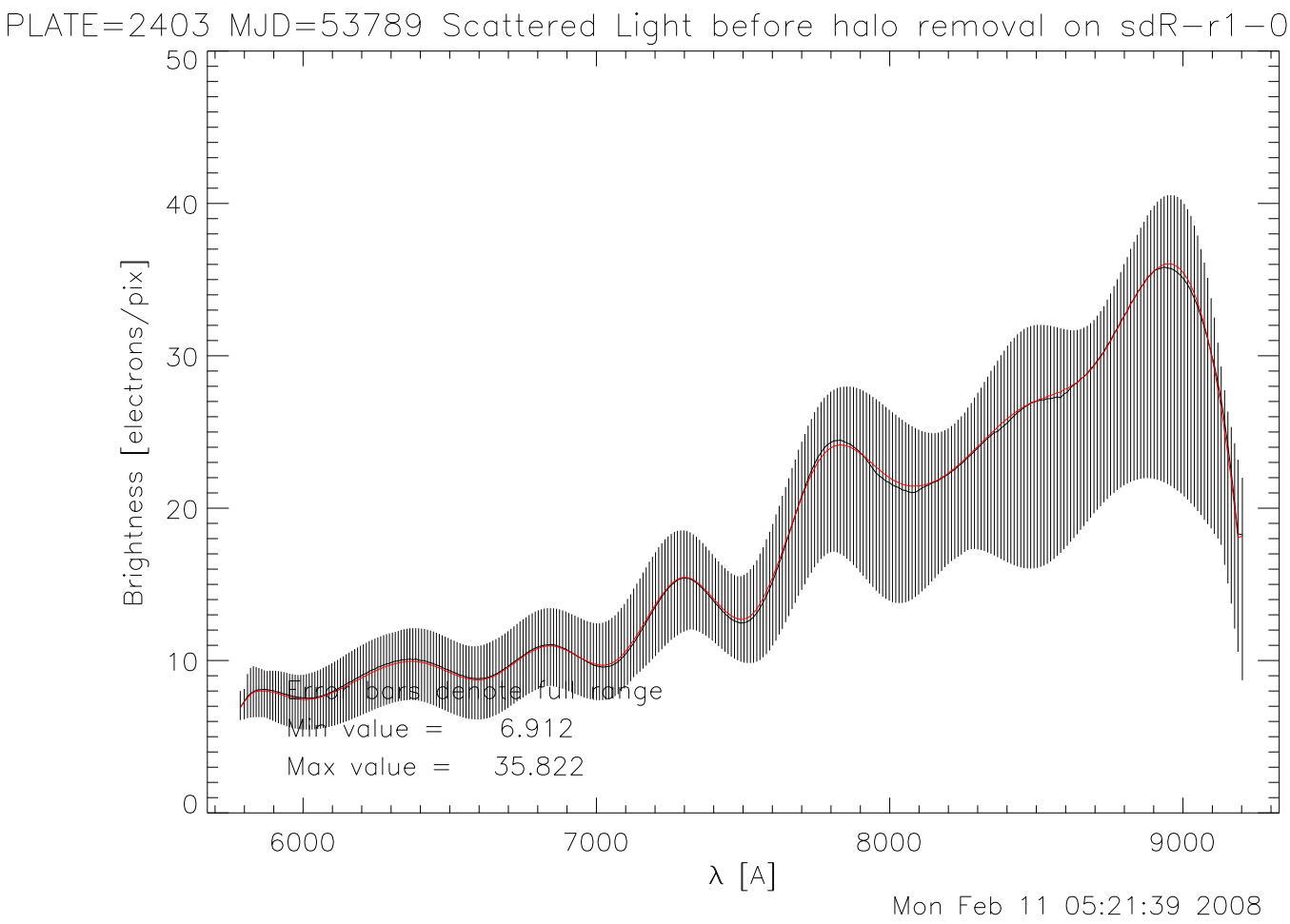

PLATE=2403 MJD=53789 flat extraction chi^2 for sdR−r1−00037574.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

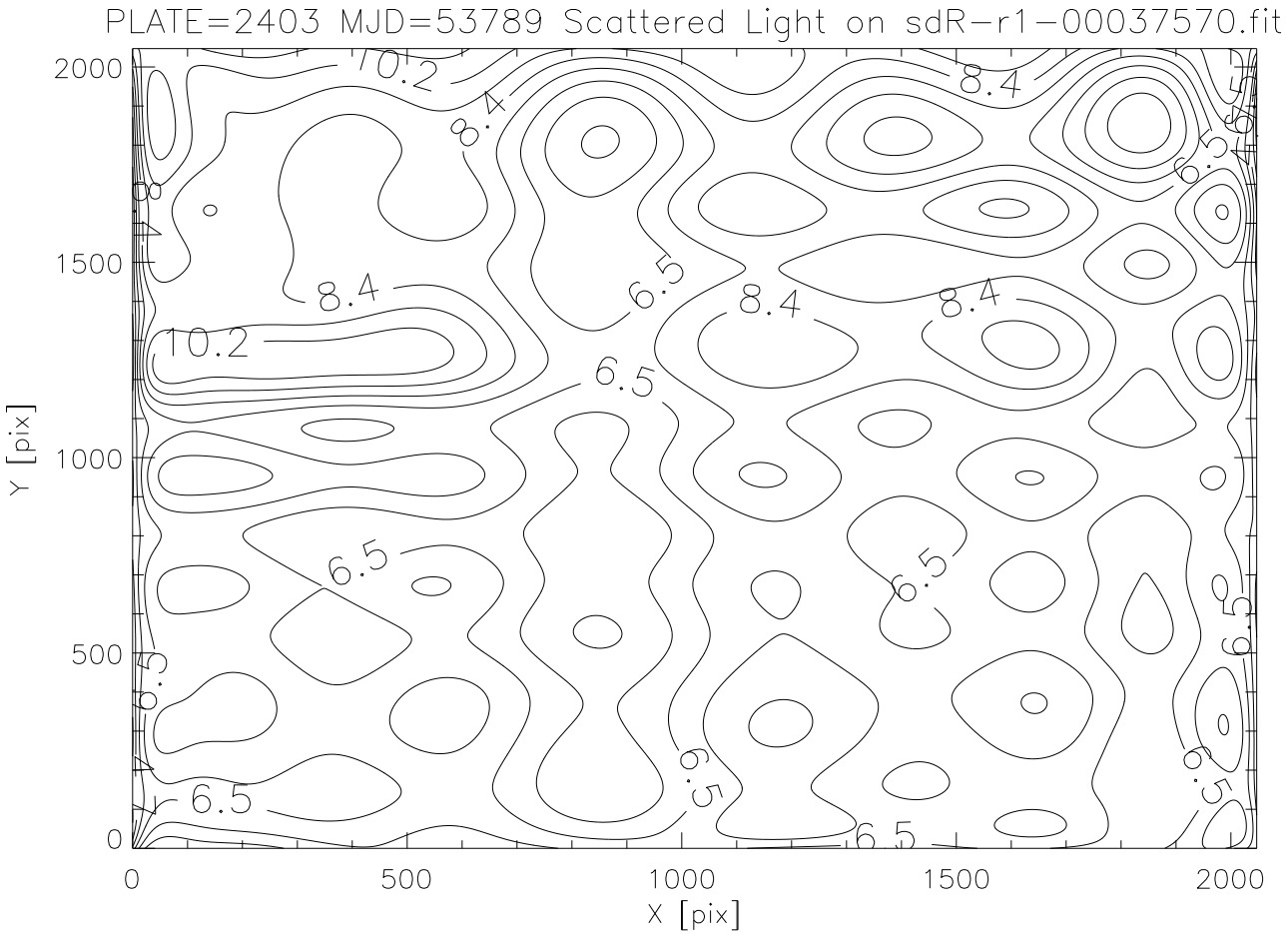

PLATE=2403 MJD=53789 Superflat sdR-r1-00037574.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

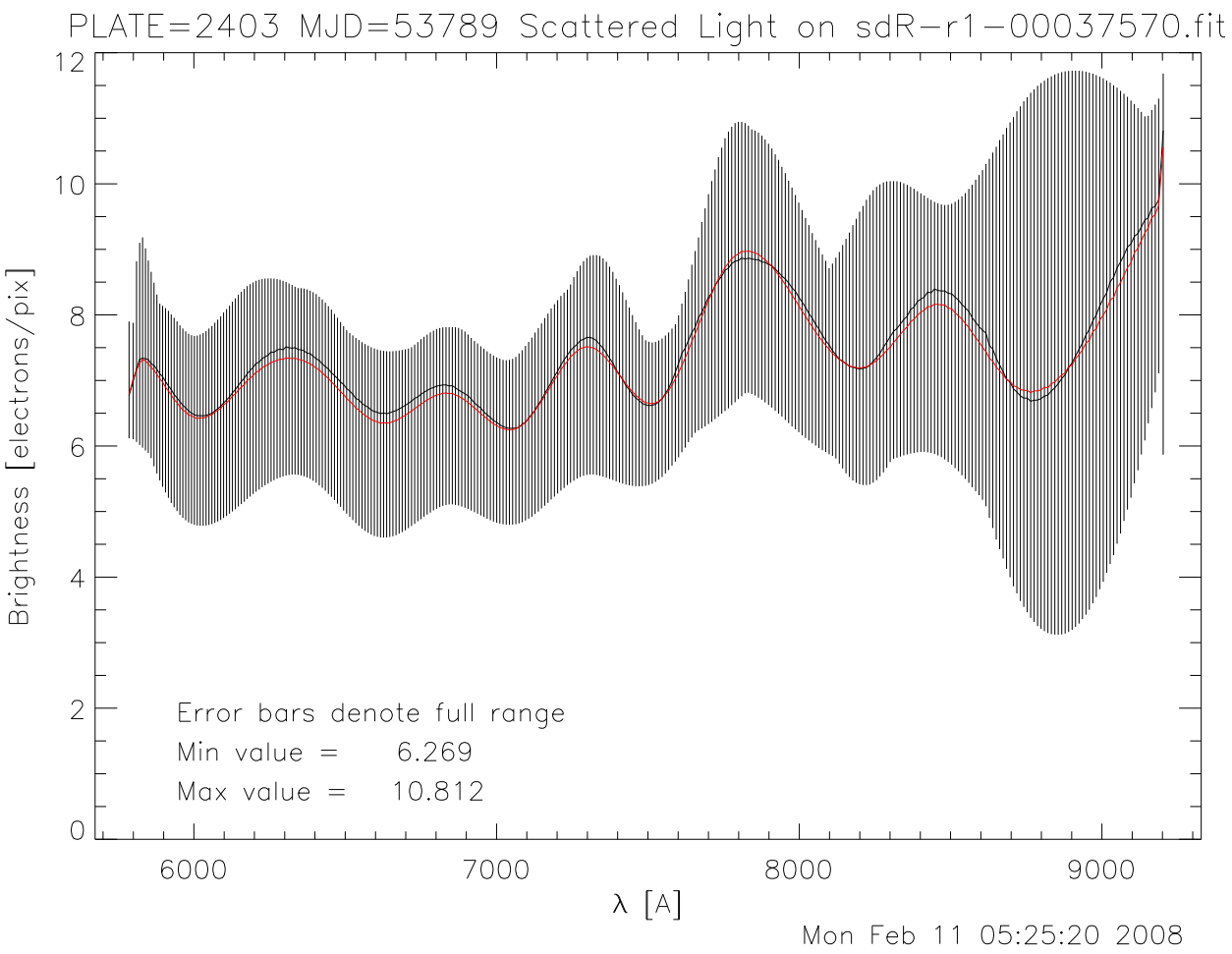

PLATE=2403 MJD=53789 Arcline Fit for sdR-r1-00037575.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Mon Feb 11 05:20:17 2008

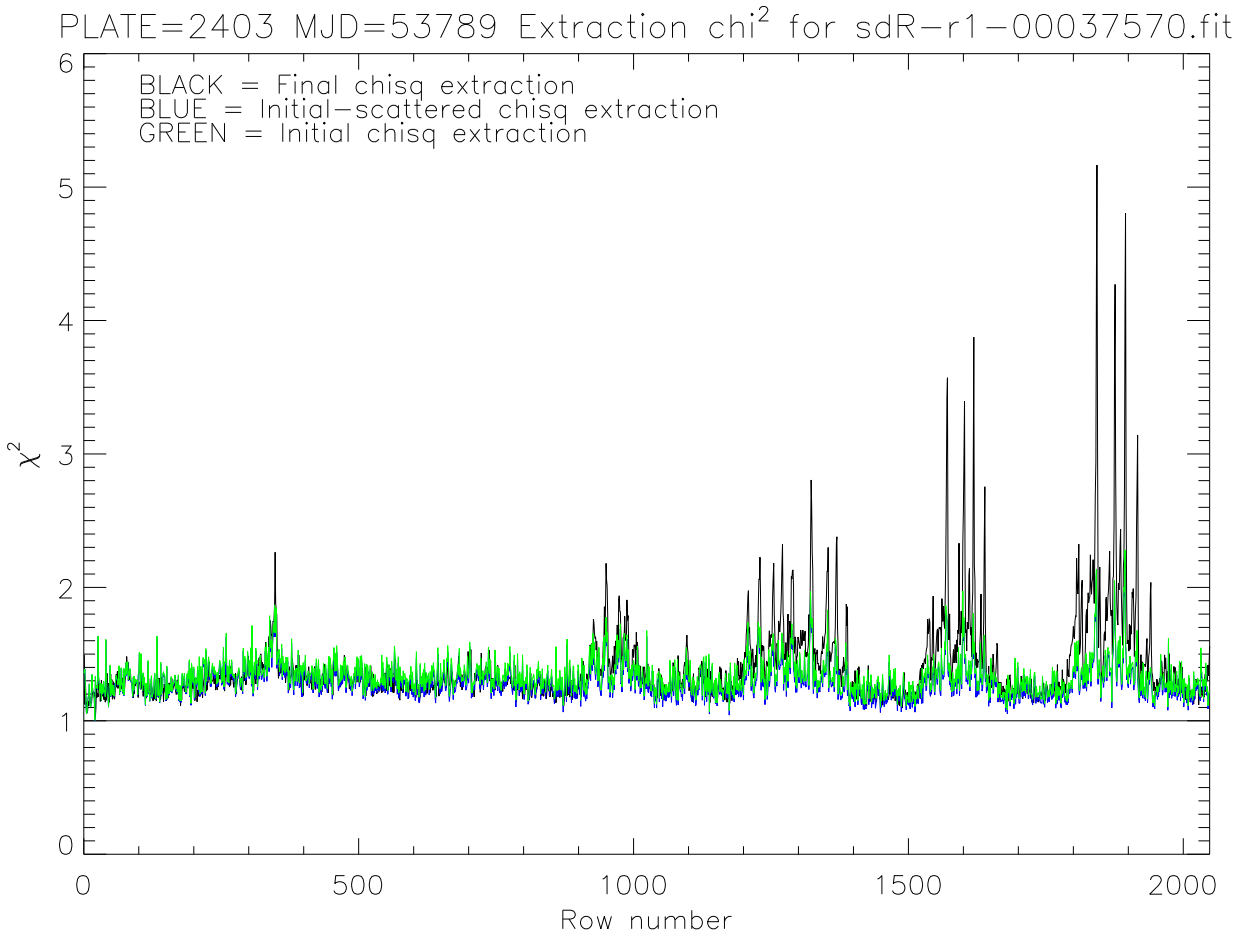

PLATE=2403 MJD=53789 Fiber-Flats for sdR-r1-00037574.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.579
Max value = 1.329
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 11 05:20:28 2008

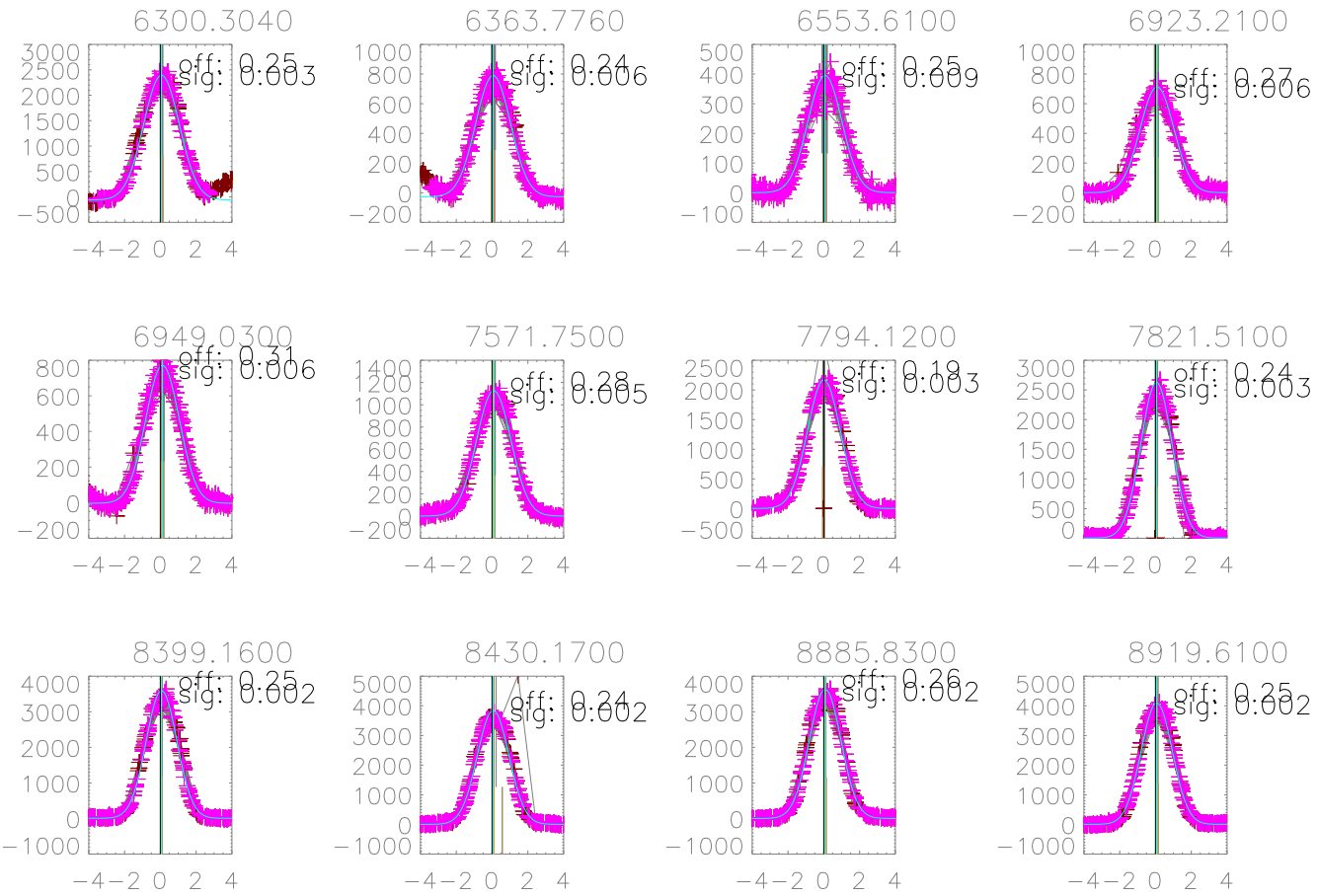

PLATE=2403 MJD=53789 Scattered Light before halo removal on sdR-r1-00037570.fi
31.82
31.82
22.73
22.73
13.64
13.64
13.64
0
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

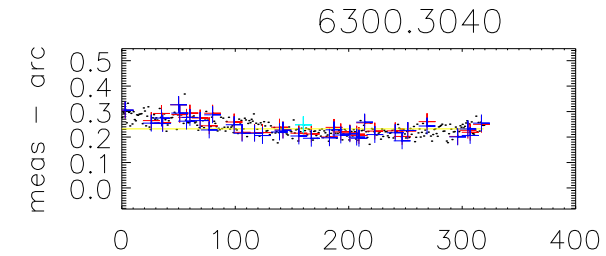

PLATE=2403 MJD=53789 Scattered Light before halo removal on sdR-r1-00037570.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.912
Max value = 35.822
Mon Feb 11 05:21:39 2008

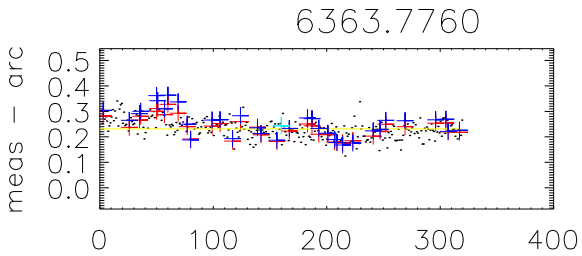

PLATE=2403 MJD=53789 Scattered Light on sdR−r1−00037570.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
10.2
8.4
6.5

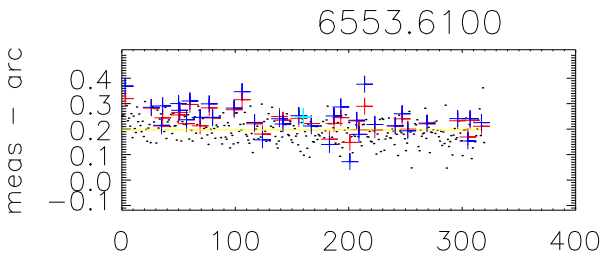

PLATE=2403 MJD=53789 Scattered Light on sdR-r1-00037570.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.269
Max value = 10.812
Mon Feb 11 05:25:20 2008

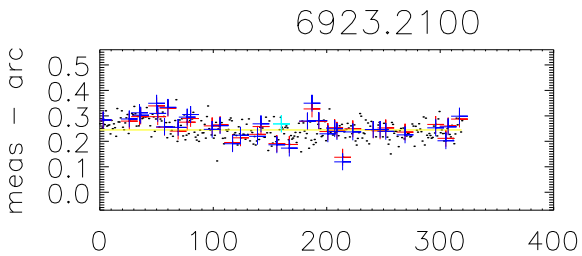

PLATE=2403 MJD=53789 Extraction chi^2 for sdR−r1−00037570.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

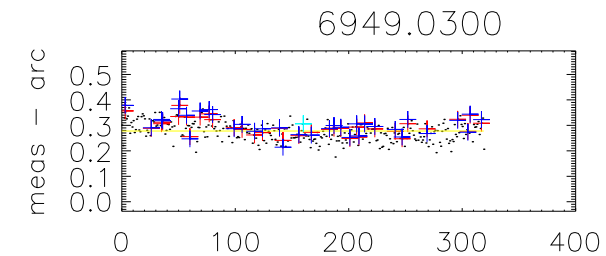

6300.3040
off: 0.25
sig: 0.003
6363.7760
off: 0.24
sig: 0.006
6553.6100
off: 0.25
sig: 0.009
6923.2100
off: 0.27
sig: 0.006
6949.0300
off: 0.31
sig: 0.006
7571.7500
off: 0.28
sig: 0.005
7794.1200
off: 0.18
sig: 0.003
7821.5100
off: 0.24
sig: 0.003
8399.1600
off: 0.25
sig: 0.002
8430.1700
off: 0.24
sig: 0.002
8885.8300
off: 0.26
sig: 0.002
8919.6100
off: 0.25
sig: 0.002

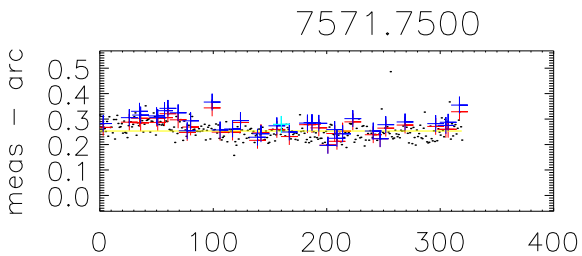

6300.3040
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

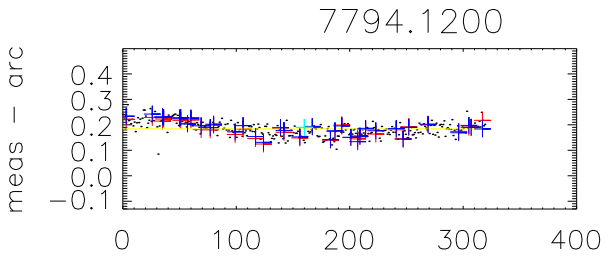

6363.7760
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

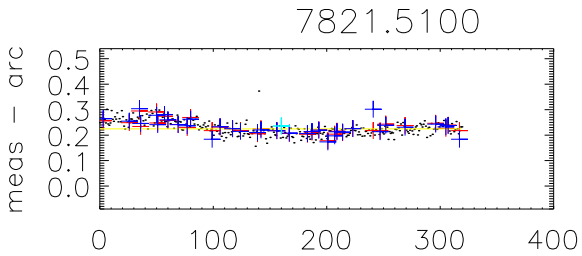

6553.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

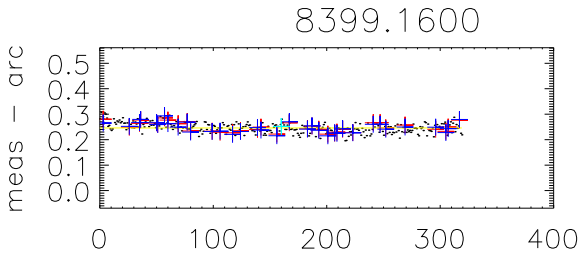

6923.2100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

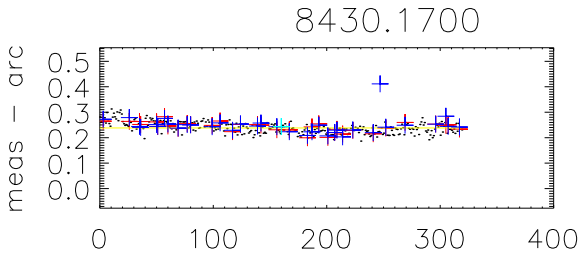

6949.0300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

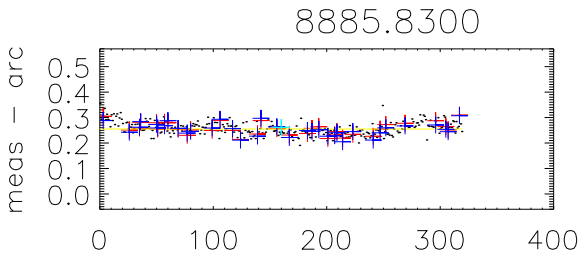

7571.7500
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

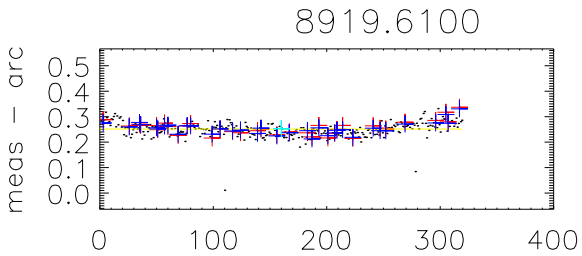

7794.1200
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

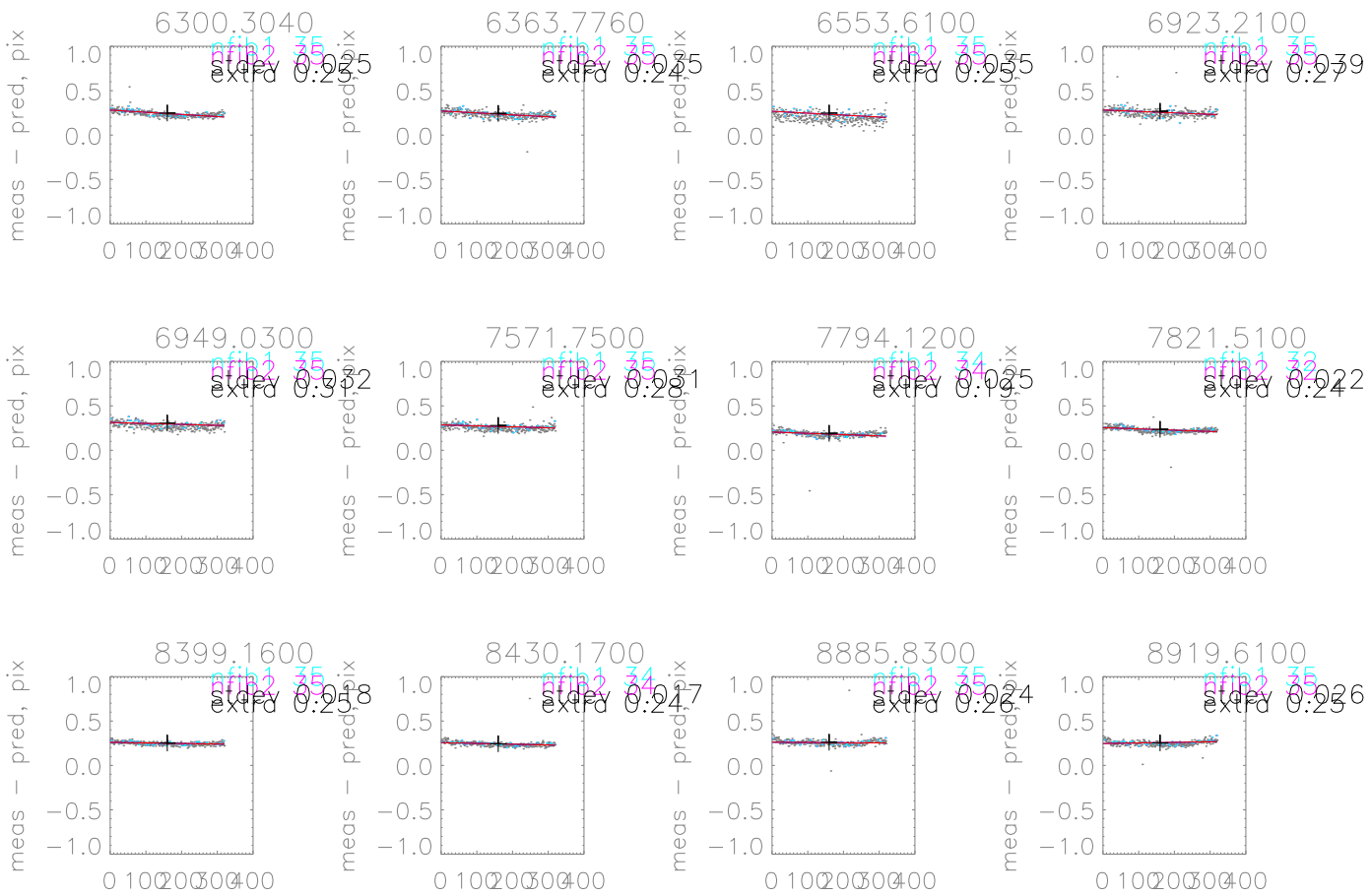

7821.5100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

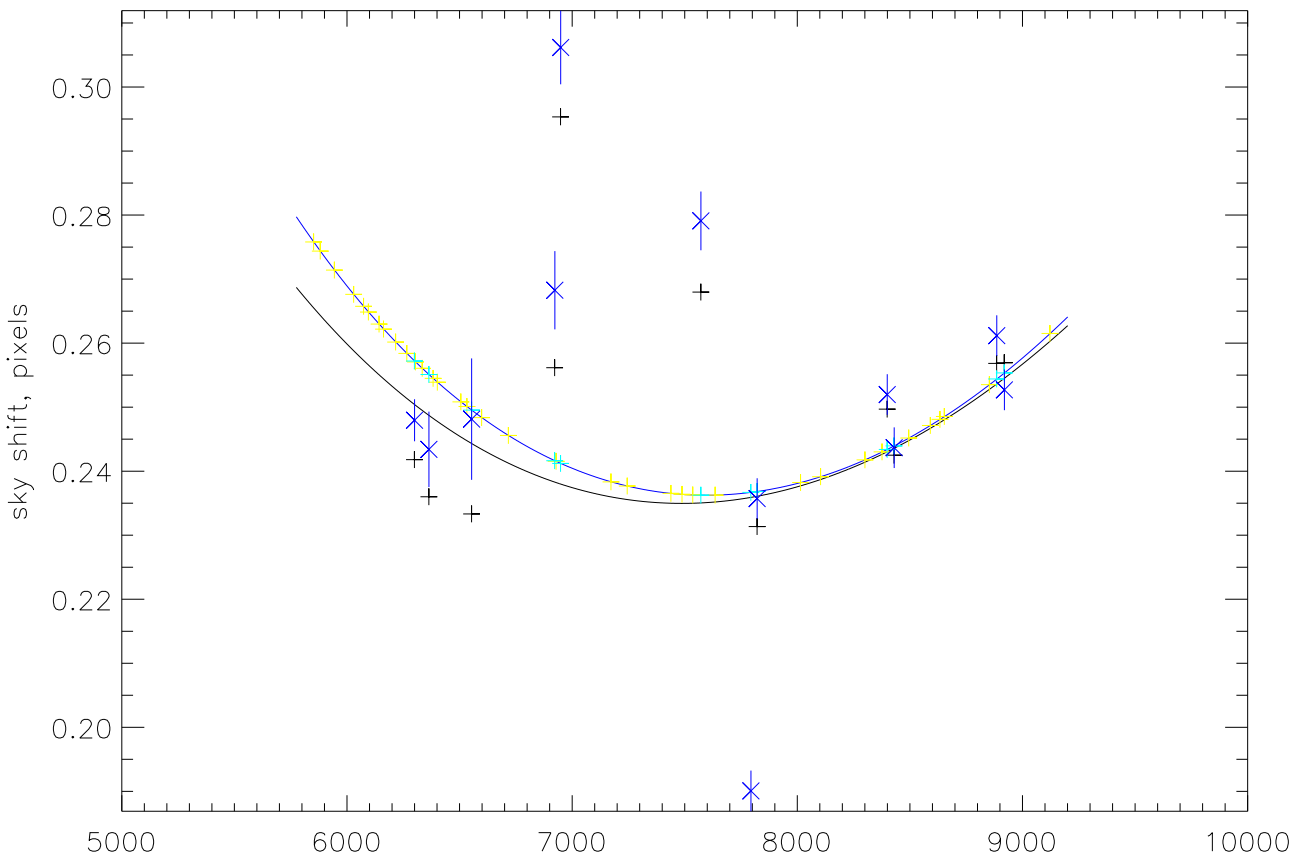

8399.1600
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

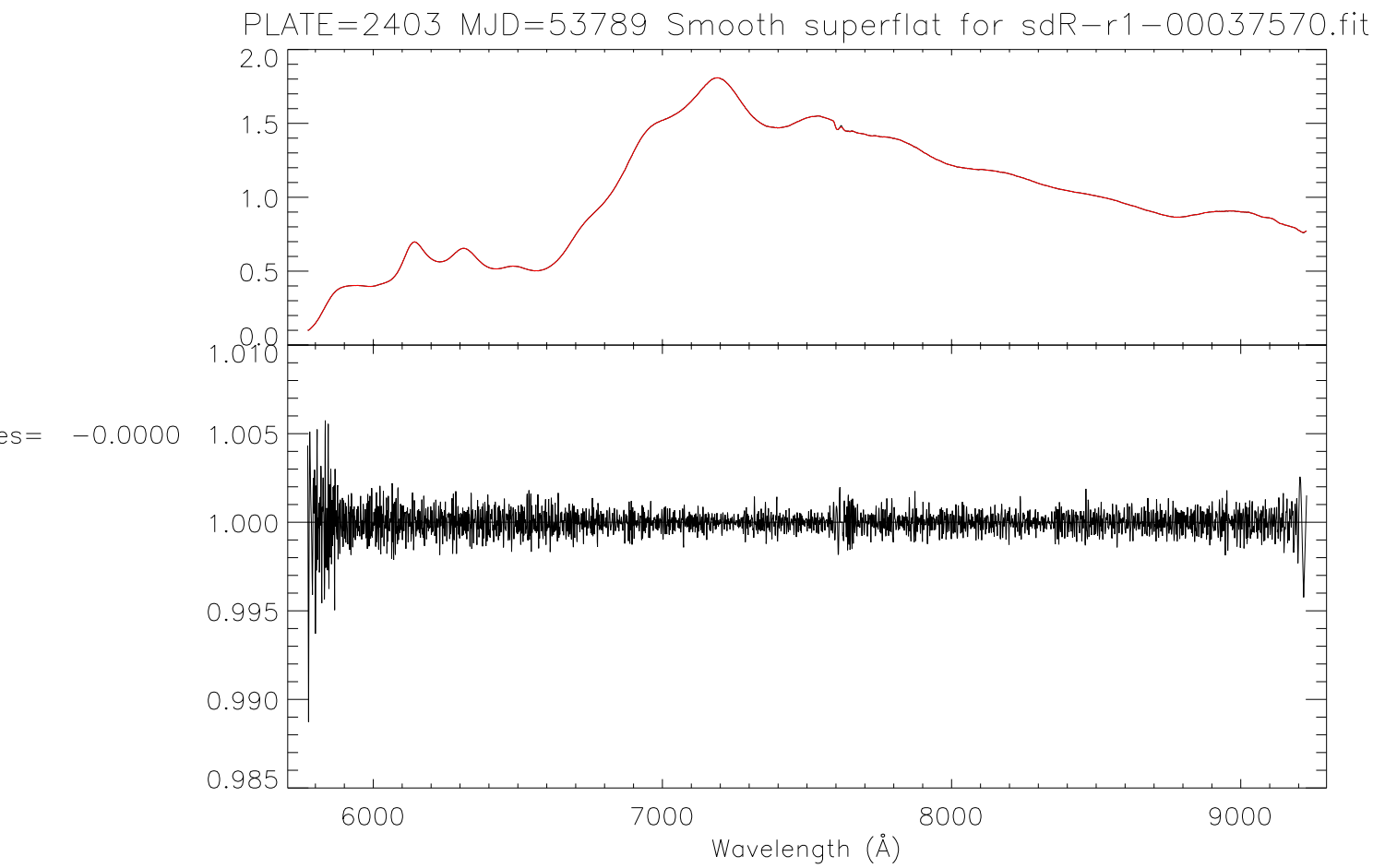

8430.1700
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

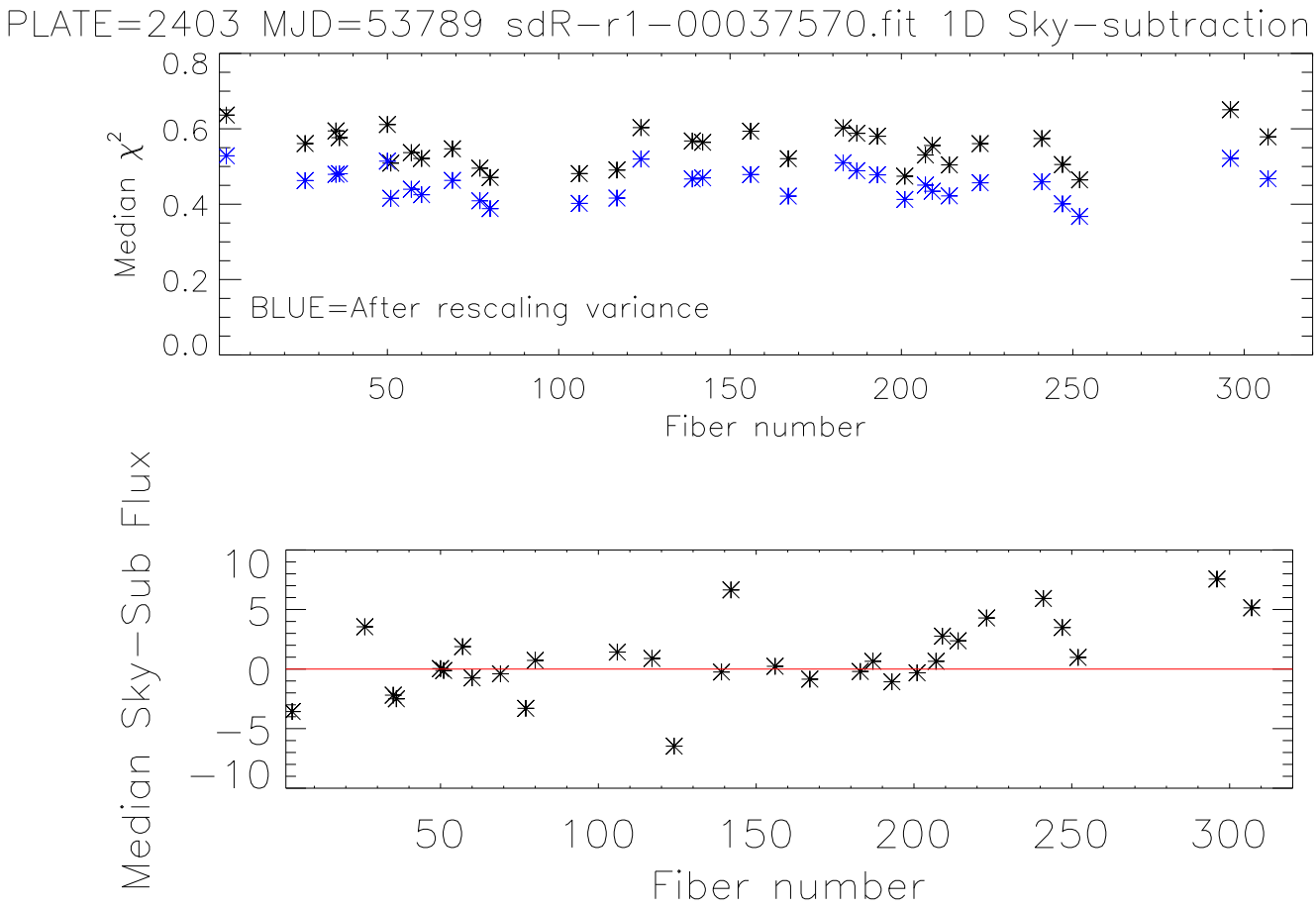

8885.8300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

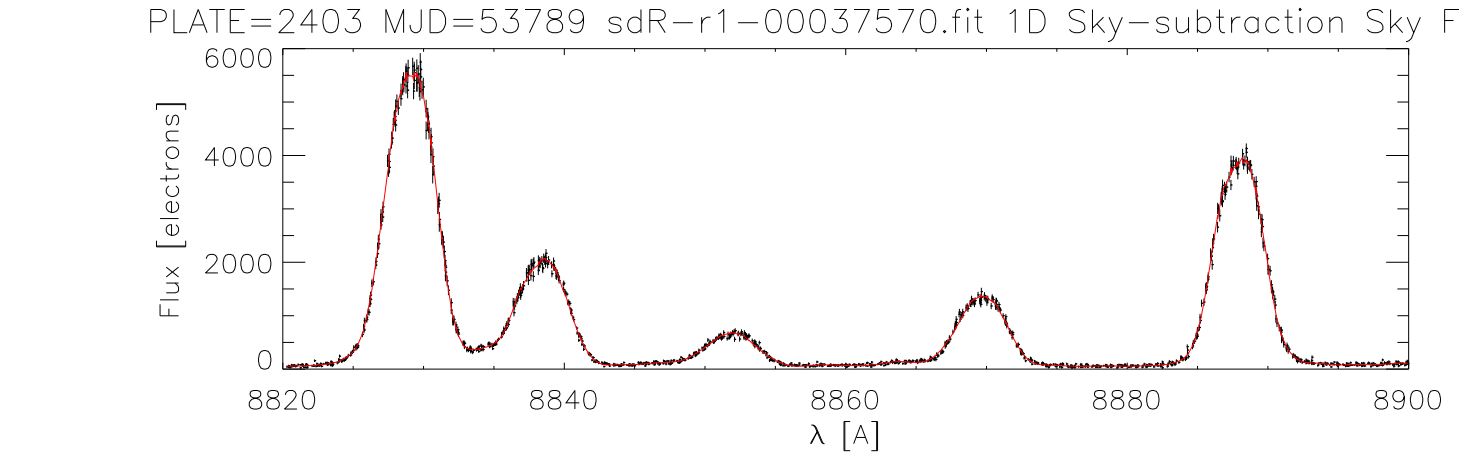

8919.6100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

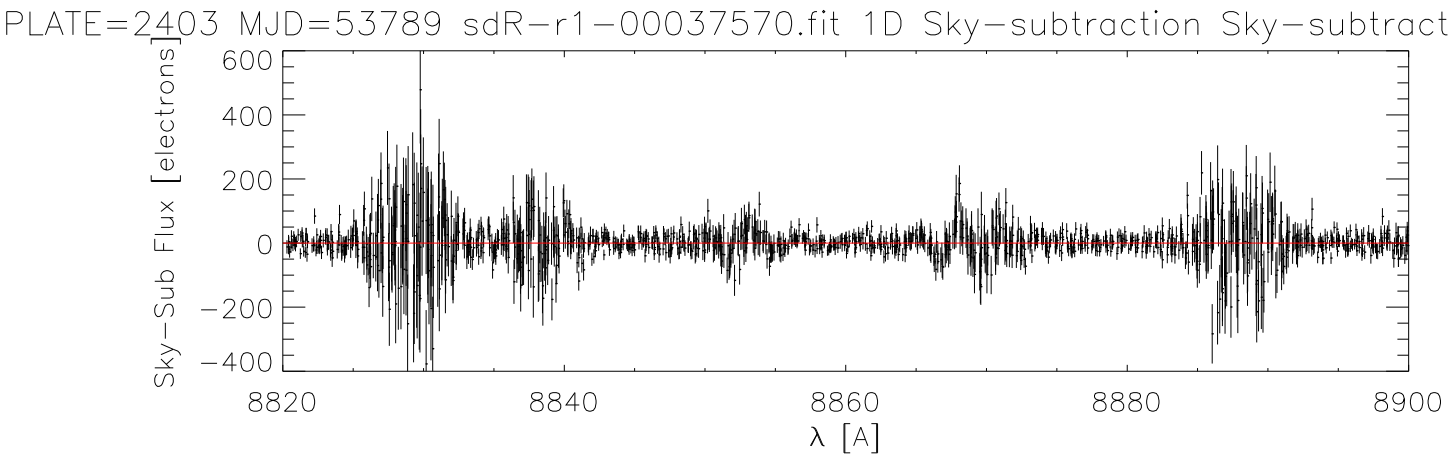

6300.3040
mfib1 35
mfib2 35
stdev 0.025
extra 0.25
6363.7760
mfib1 35
mfib2 35
stdev 0.025
extra 0.24
6553.6100
mfib1 35
mfib2 35
stdev 0.025
extra 0.25
6923.2100
mfib1 35
mfib2 35
stdev 0.039
extra 0.27
6949.0300
mfib1 35
mfib2 35
stdev 0.032
extra 0.31
7571.7500
mfib1 35
mfib2 35
stdev 0.031
extra 0.28
7794.1200
mfib1 34
mfib2 34
stdev 0.025
extra 0.19
7821.5100
mfib1 32
mfib2 32
stdev 0.022
extra 0.24
8399.1600
mfib1 35
mfib2 35
stdev 0.028
extra 0.25
8430.1700
mfib1 34
mfib2 34
stdev 0.017
extra 0.24
8885.8300
mfib1 35
mfib2 35
stdev 0.024
extra 0.26
8919.6100
mfib1 35
mfib2 35
stdev 0.026
extra 0.23
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

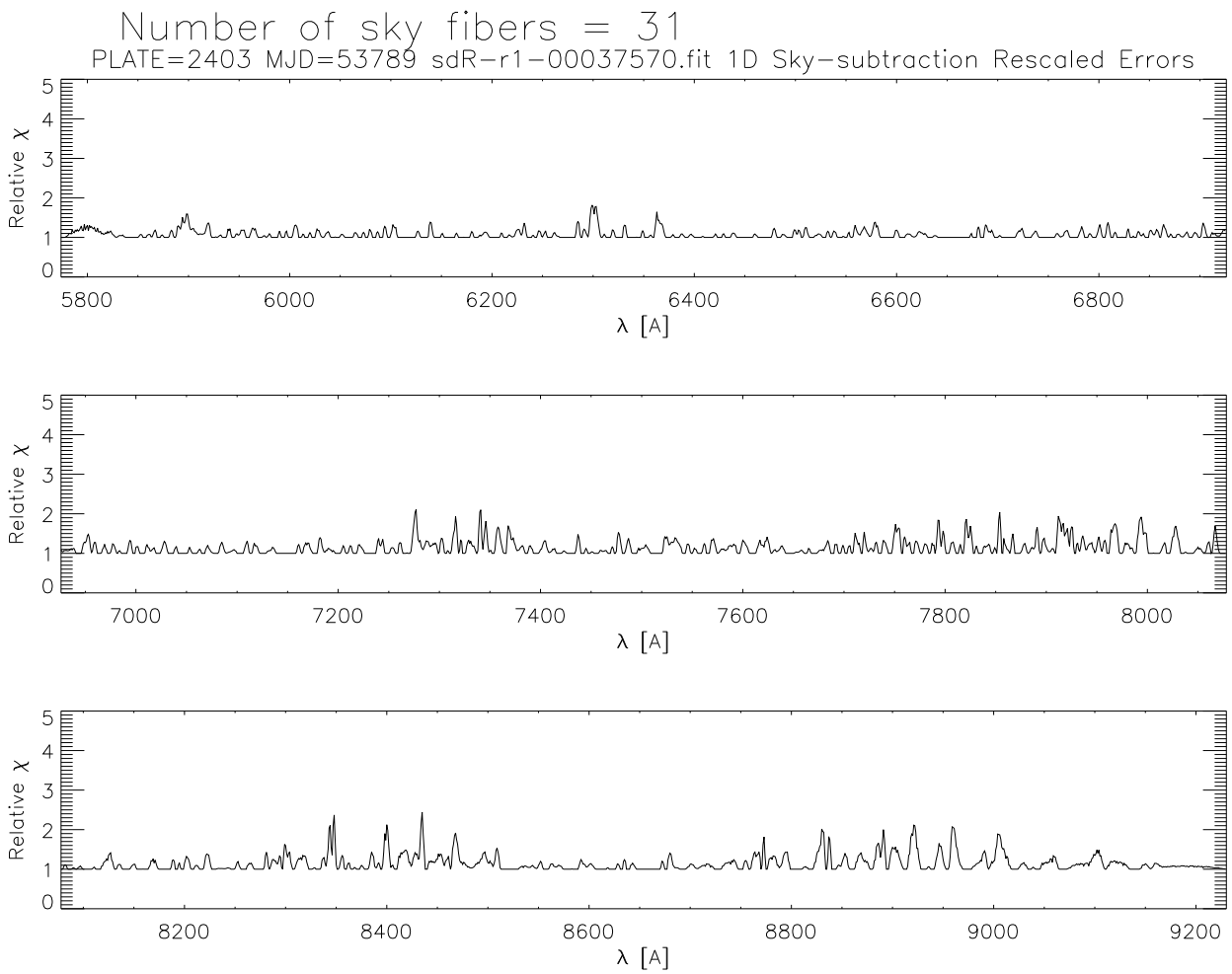

sky shift, pixels
0.30
0.28
0.26
0.24
0.22
0.20
5000
6000
7000
8000
9000
10000

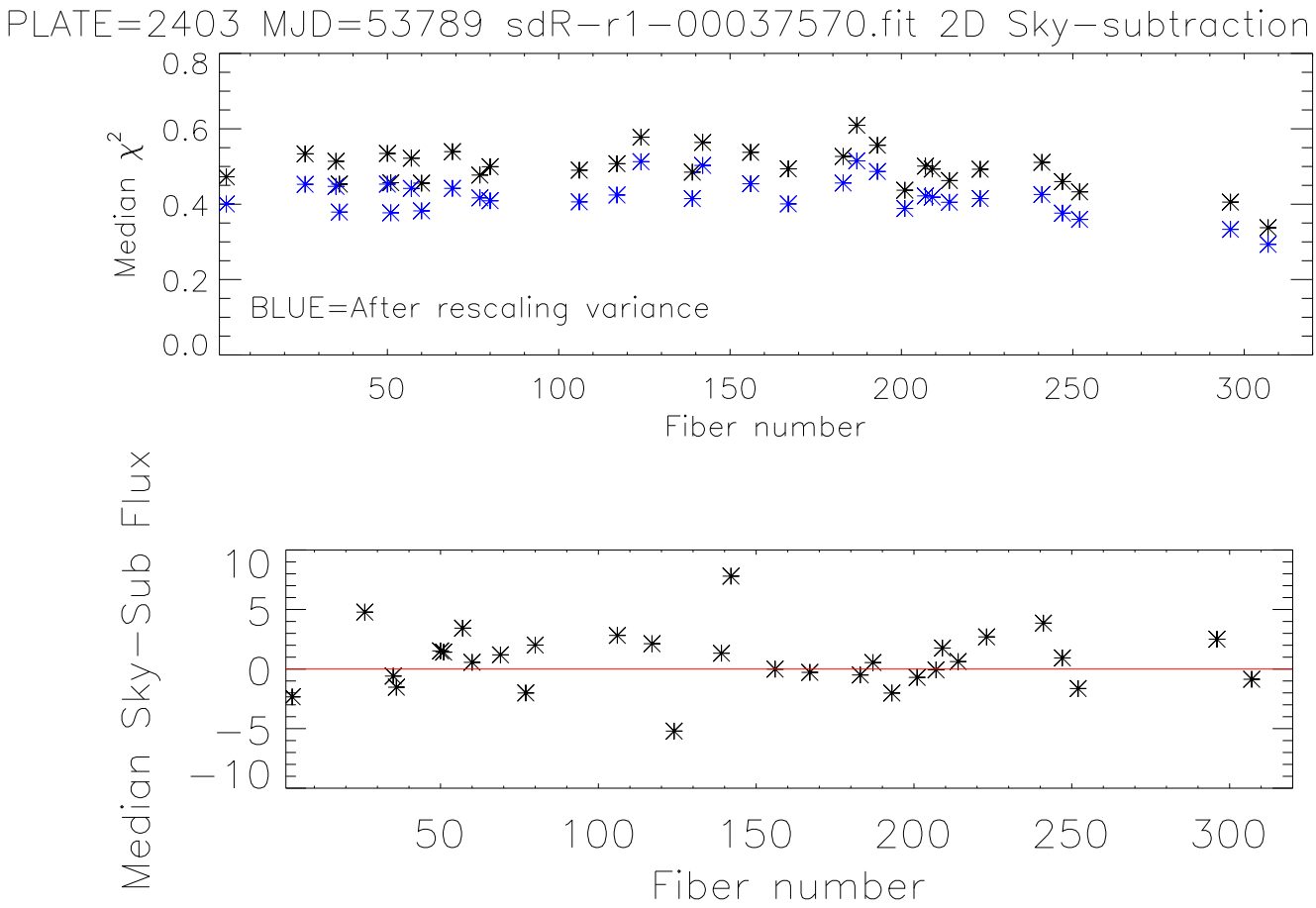

PLATE=2403 MJD=53789 Smooth superflat for sdR-r1-00037570.fit
2.0
1.5
1.0
0.5
0.0
1.010
es= −0.0000
1.005
1.000
0.995
0.990
0.985
6000
7000
8000
9000
Wavelength (Å)

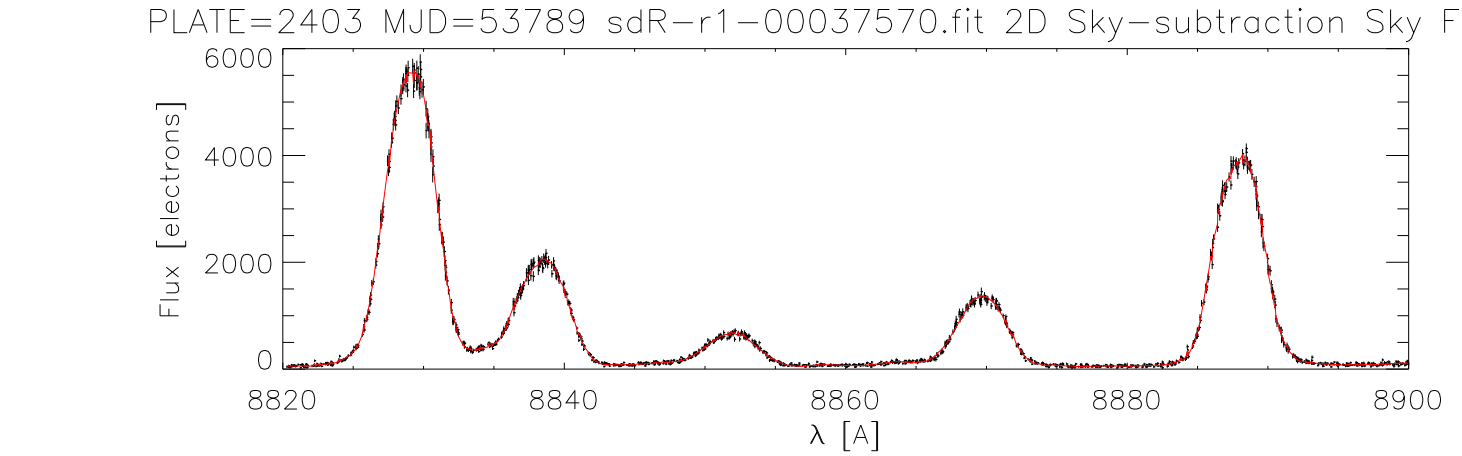

PLATE=2403 MJD=53789 sdR-r1-00037570.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

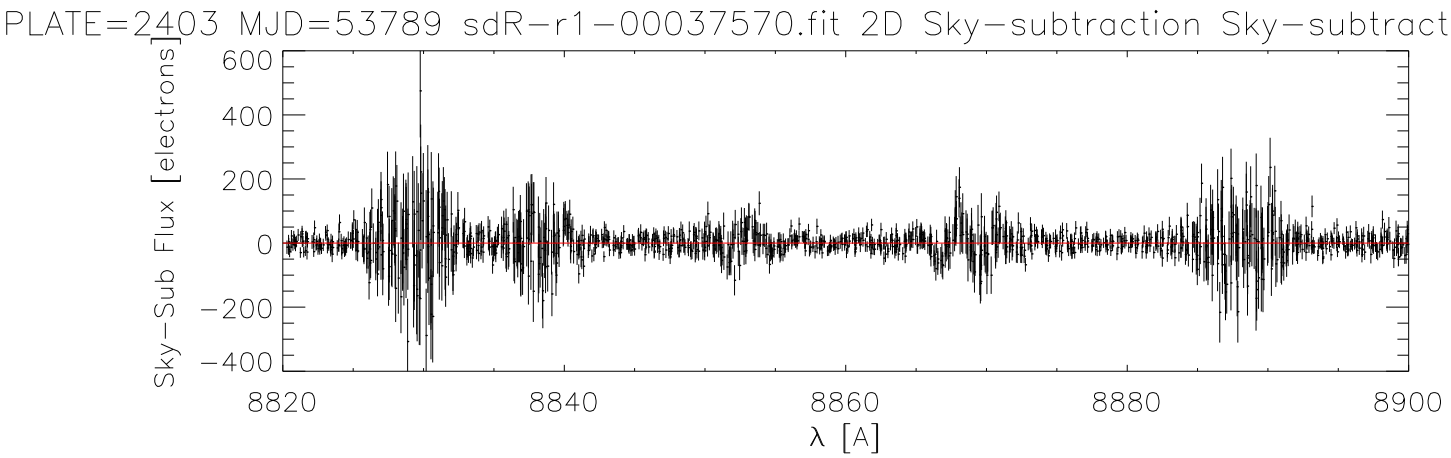

PLATE=2403 MJD=53789 sdR-r1-00037570.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

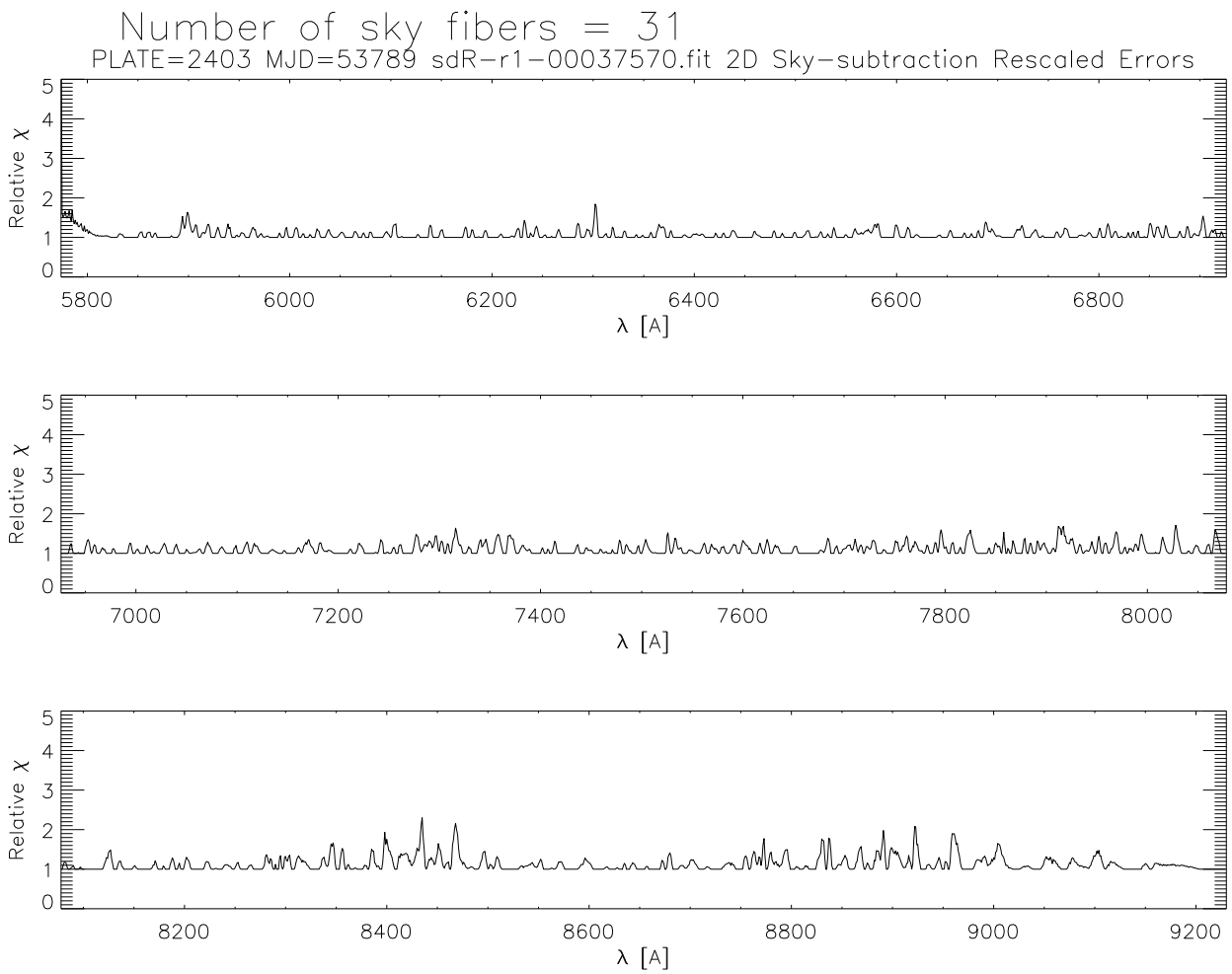

PLATE=2403 MJD=53789 sdR-r1-00037570.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

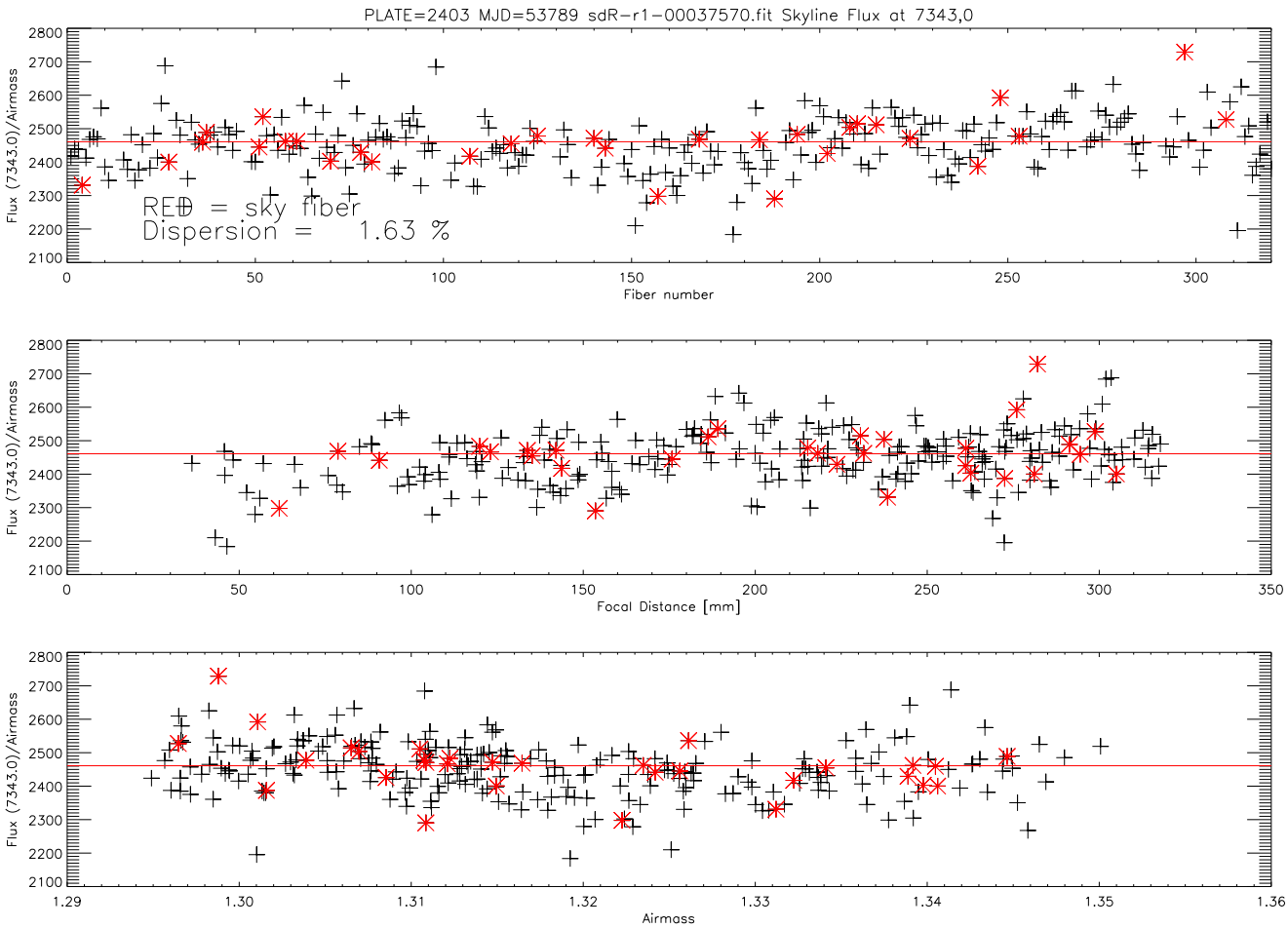

Number of sky fibers = 31
PLATE=2403 MJD=53789 sdR-r1-00037570.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

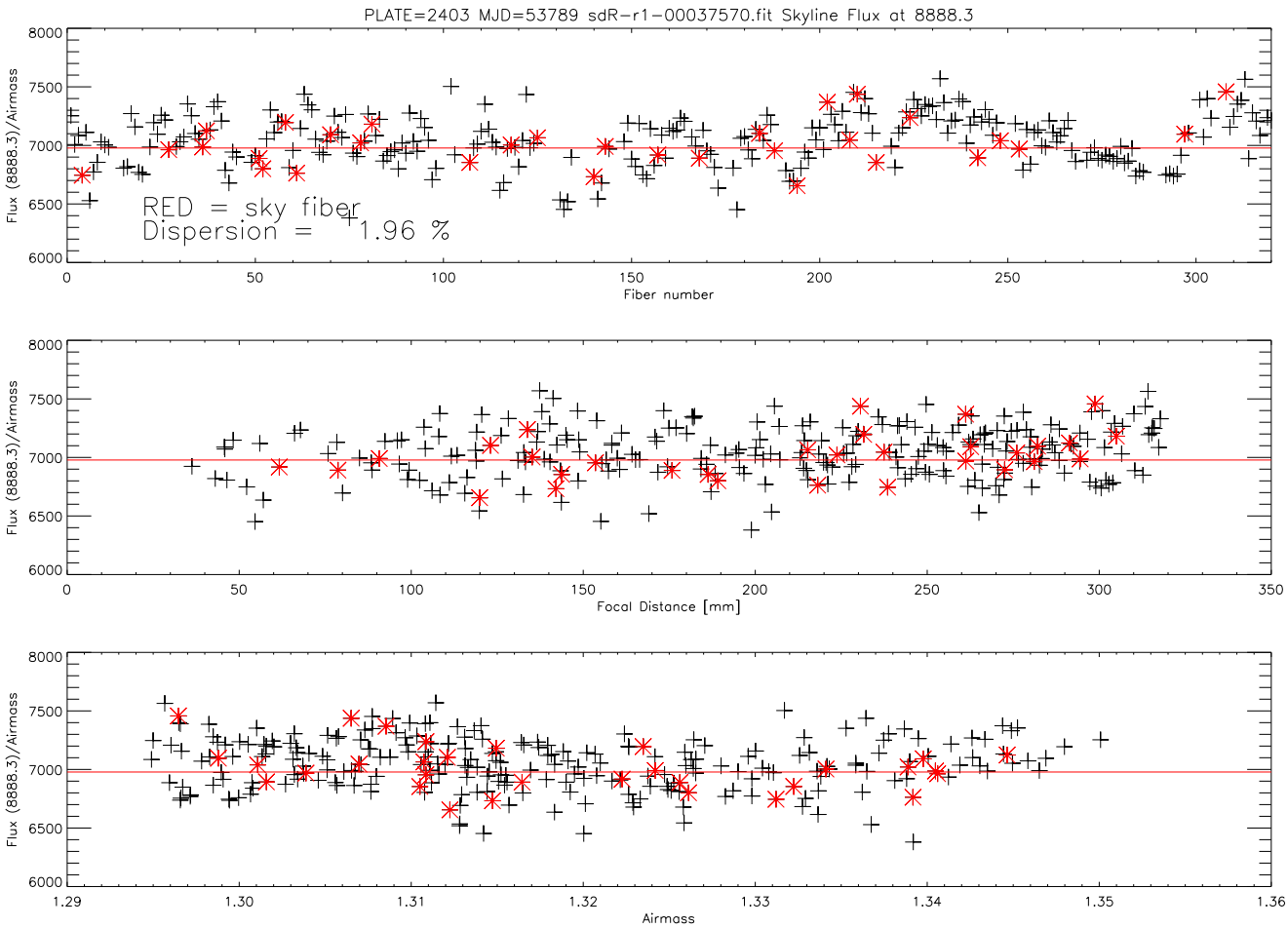

PLATE=2403 MJD=53789 sdR-r1-00037570.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

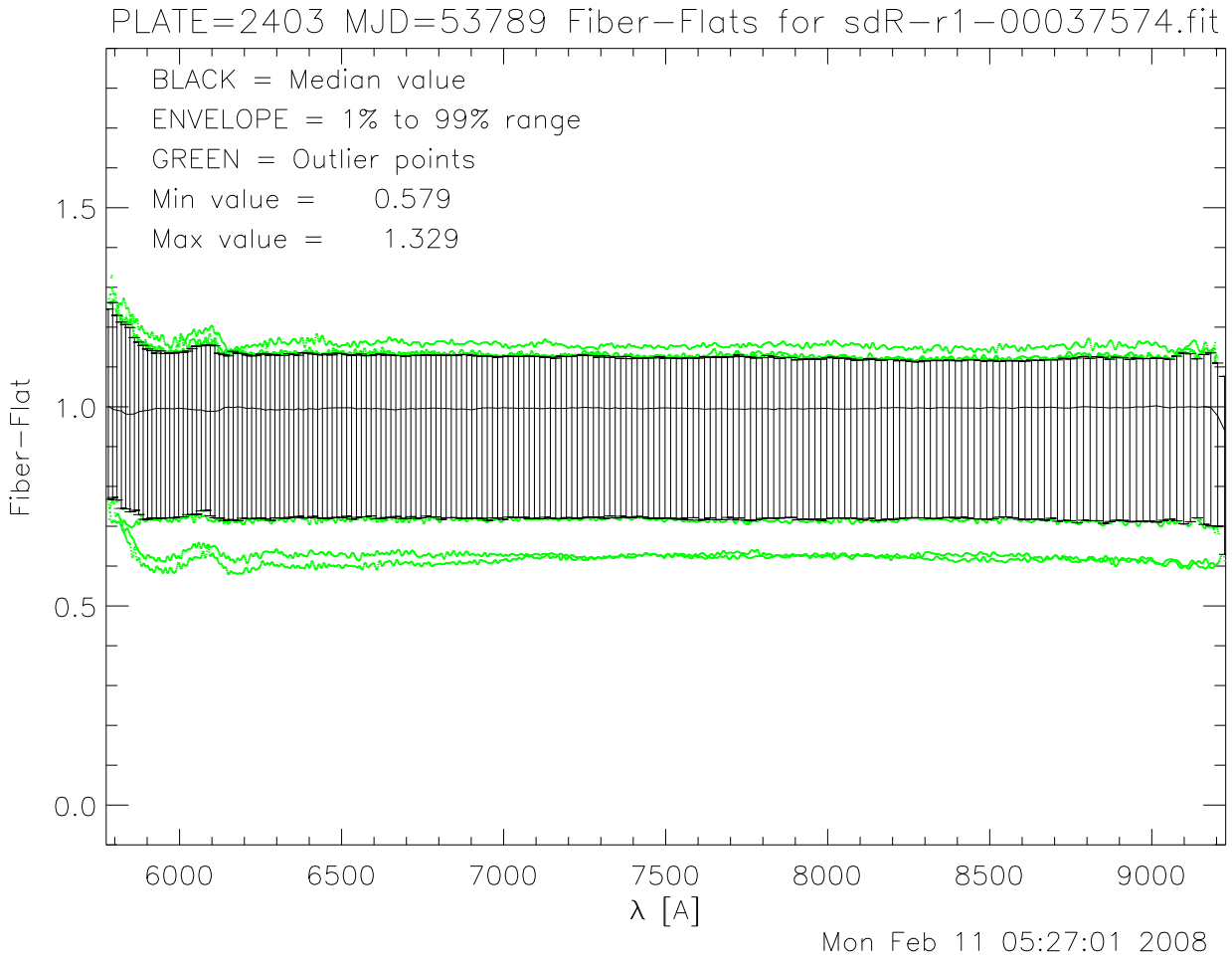

PLATE=2403 MJD=53789 sdR-r1-00037570.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

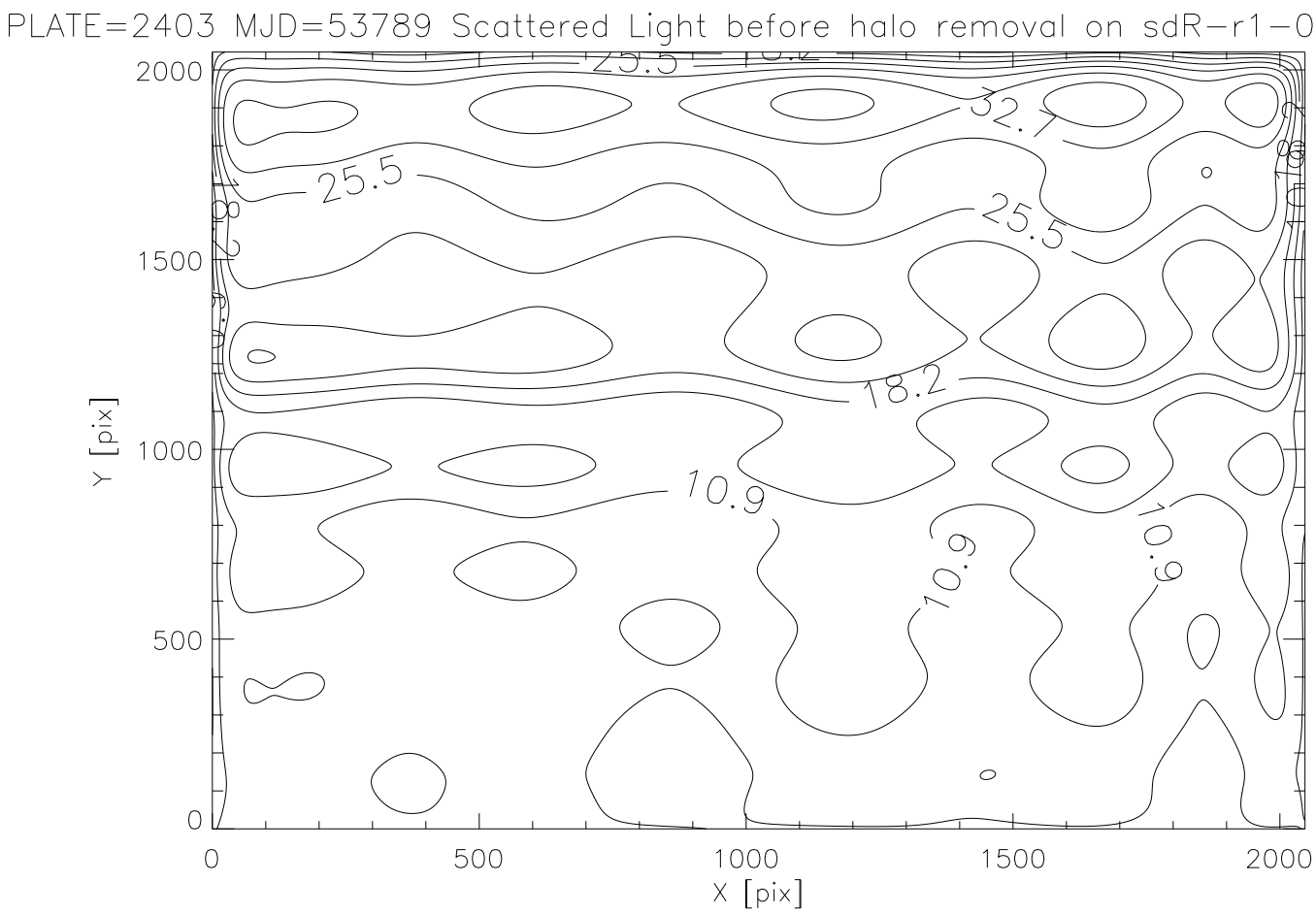

PLATE=2403 MJD=53789 sdR-r1-00037570.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

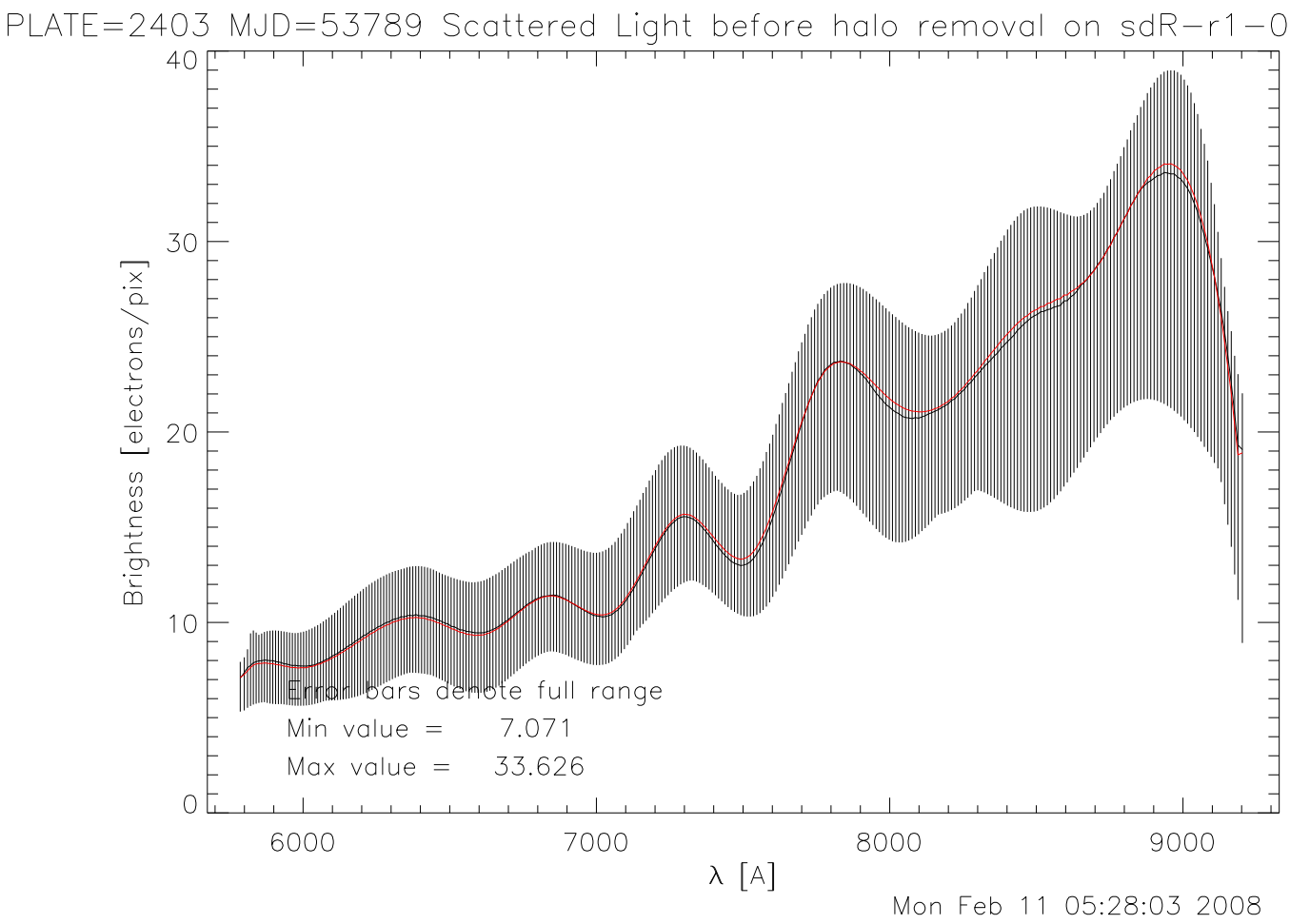

Number of sky fibers = 31
PLATE=2403 MJD=53789 sdR-r1-00037570.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

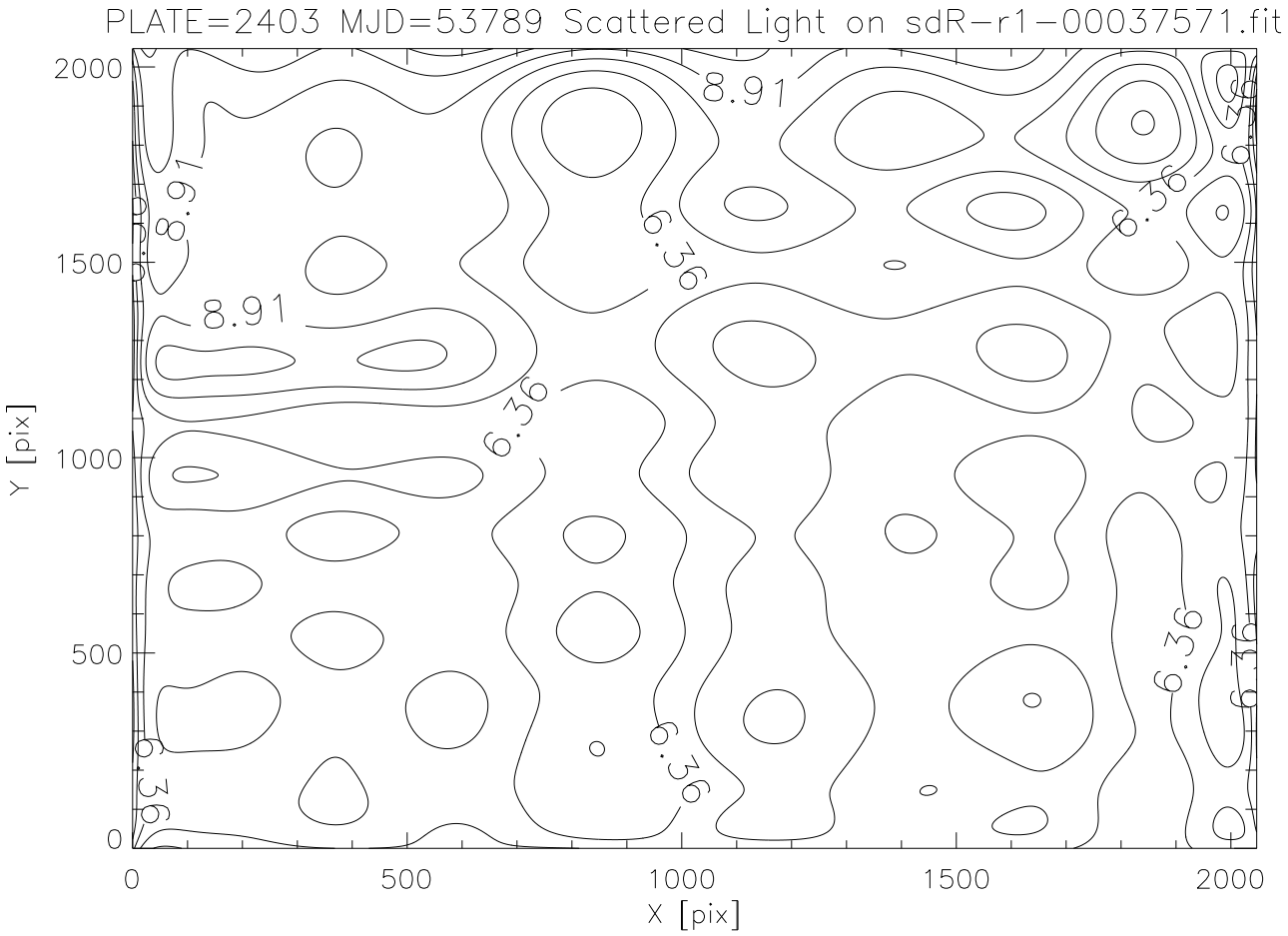

PLATE=2403 MJD=53789 sdR-r1-00037570.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.63 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

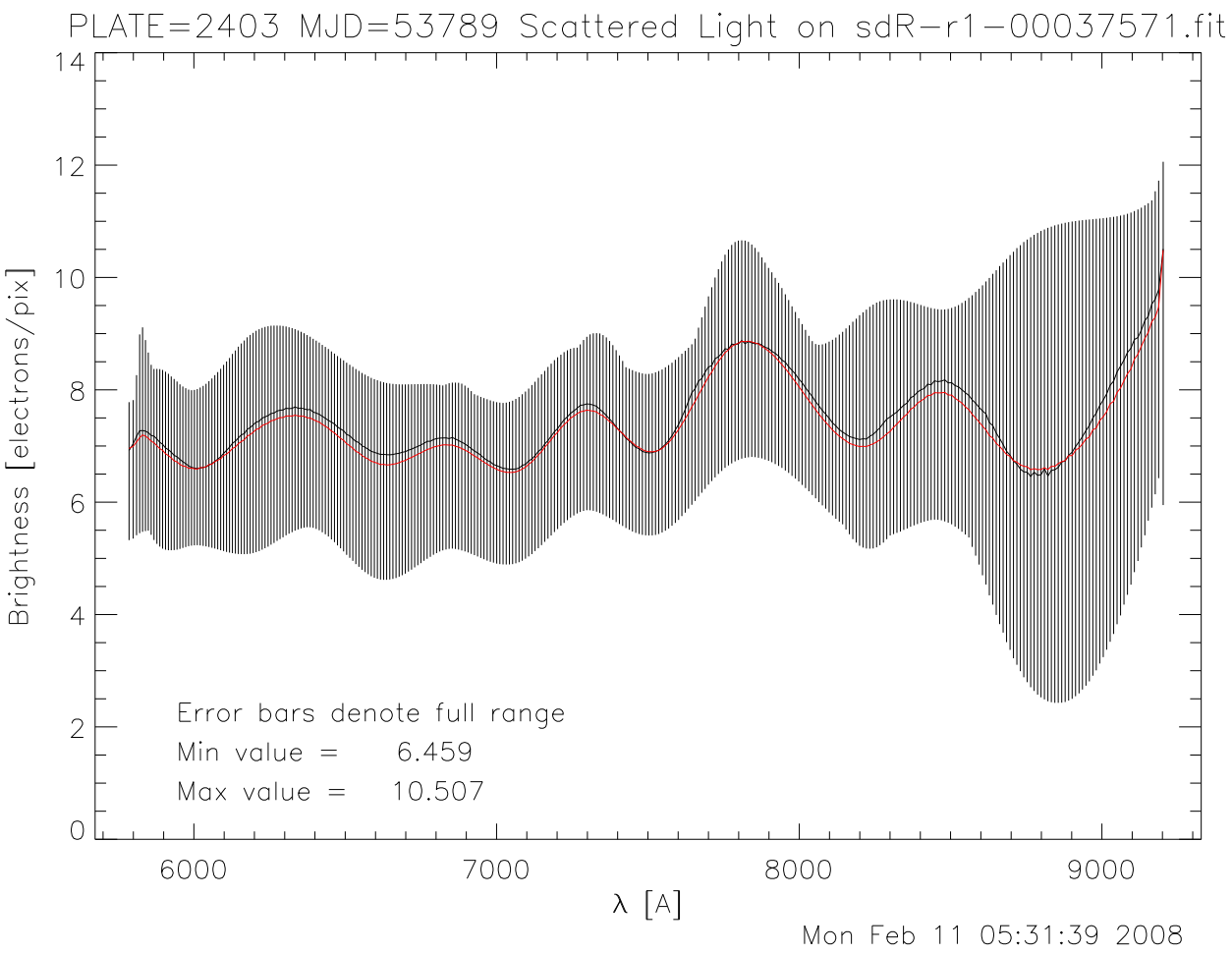

PLATE=2403 MJD=53789 sdR-r1-00037570.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.96 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

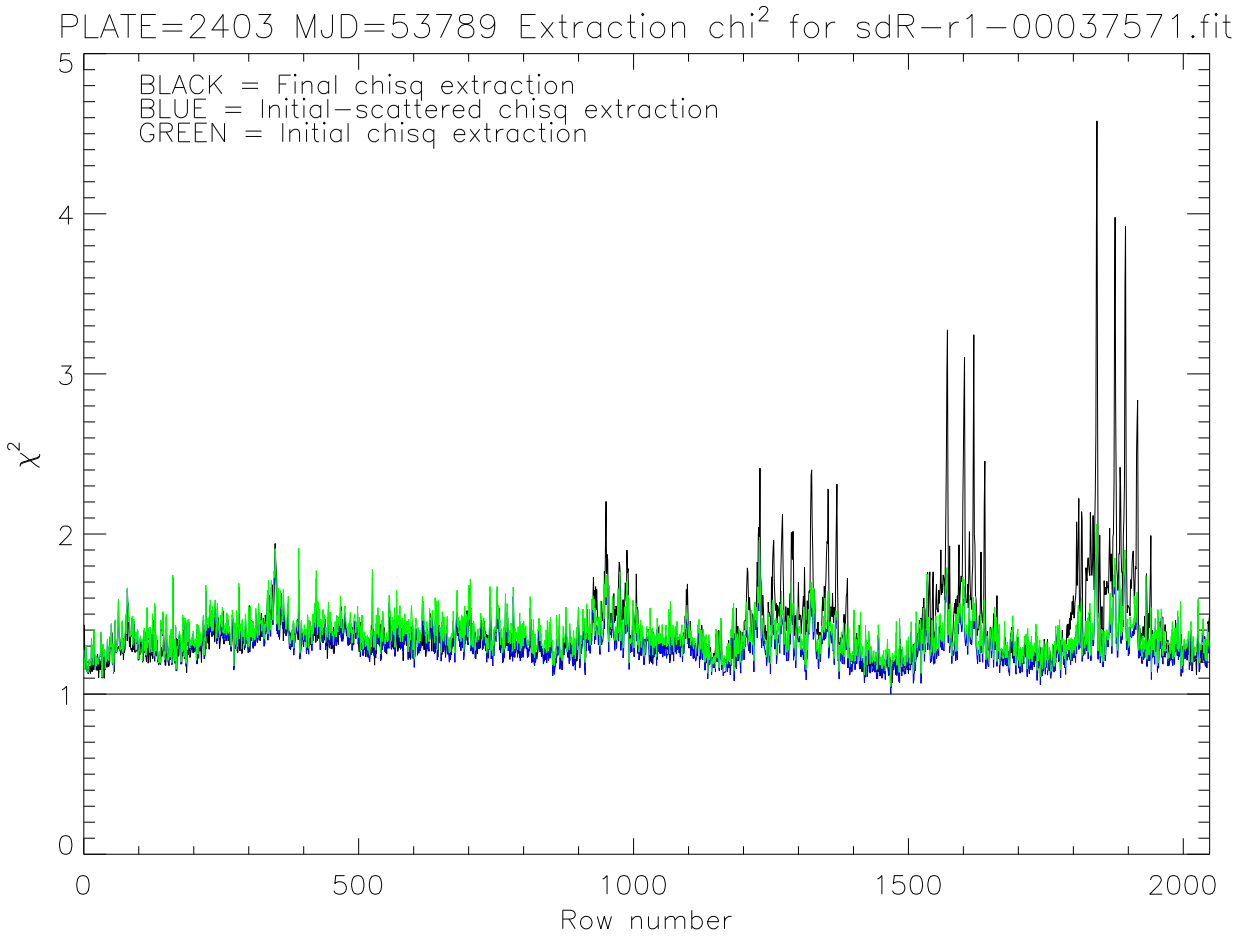

PLATE=2403 MJD=53789 Fiber−Flats for sdR−r1−00037574.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.579
Max value = 1.329
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 11 05:27:01 2008

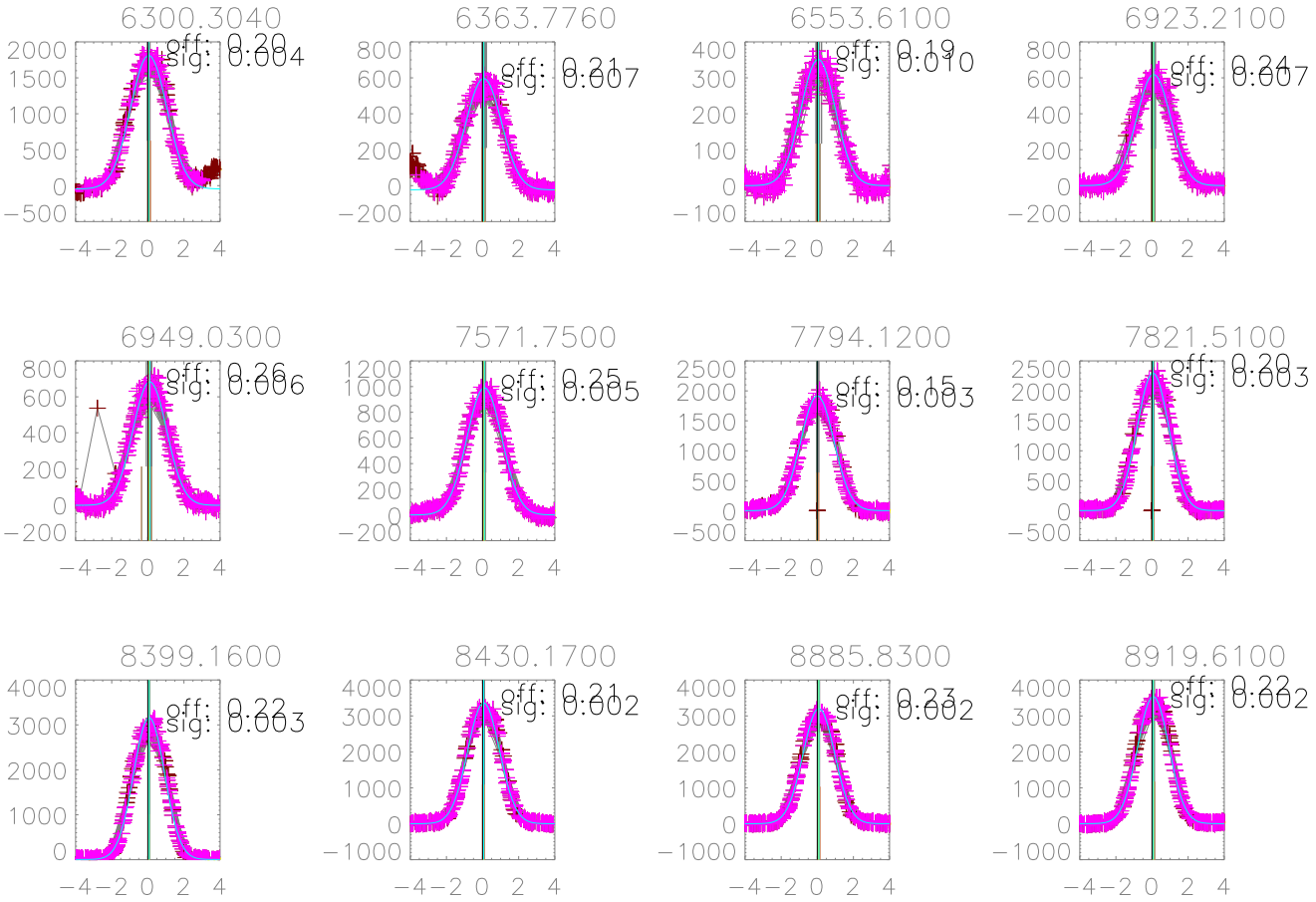

PLATE=2403 MJD=53789 Scattered Light before halo removal on sdR-r1-00037571.fi
25.5
32.7
25.5
18.2
10.9
10.9
10.9
Y [pix]
X [pix]
0
500
1000
1500
2000

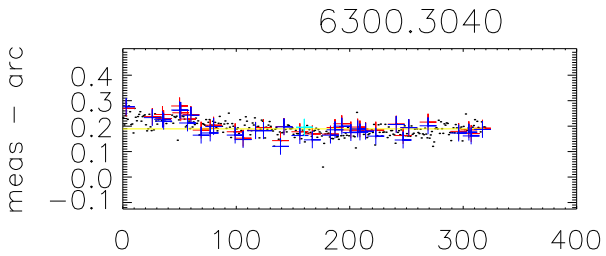

PLATE=2403 MJD=53789 Scattered Light before halo removal on sdR-r1-00037571.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.071
Max value = 33.626
Mon Feb 11 05:28:03 2008

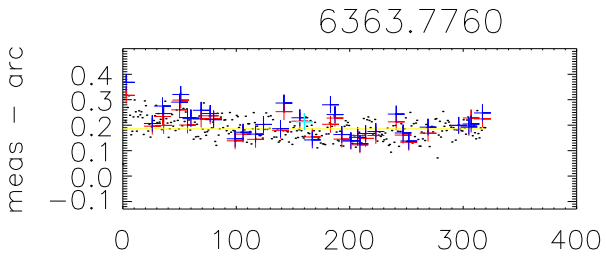

PLATE=2403 MJD=53789 Scattered Light on sdR−r1−00037571.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
8.91
6.36
0

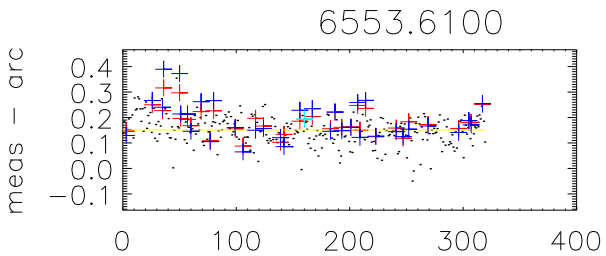

PLATE=2403 MJD=53789 Scattered Light on sdR-r1-00037571.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.459
Max value = 10.507
Mon Feb 11 05:31:39 2008

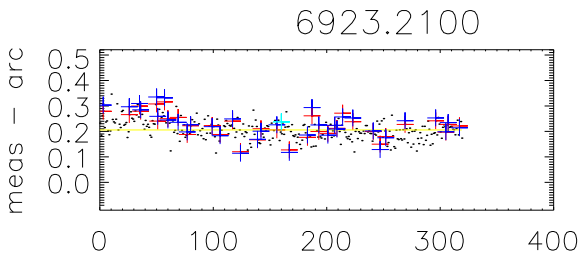

PLATE=2403 MJD=53789 Extraction chi^2 for sdR−r1−00037571.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

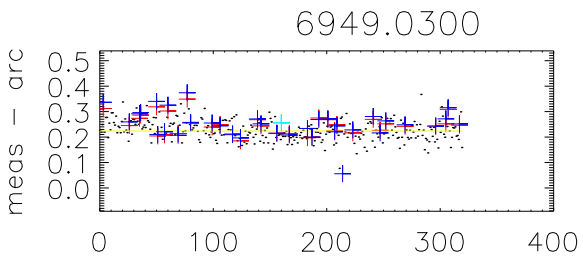

6300.3040
off: 0.20
sig: 0.004
6363.7760
off: 0.21
sig: 0.007
6553.6100
off: 0.19
sig: 0.010
6923.2100
off: 0.24
sig: 0.007
6949.0300
off: 0.26
sig: 0.006
7571.7500
off: 0.25
sig: 0.005
7794.1200
off: 0.15
sig: 0.003
7821.5100
off: 0.20
sig: 0.003
8399.1600
off: 0.22
sig: 0.003
8430.1700
off: 0.21
sig: 0.002
8885.8300
off: 0.23
sig: 0.002
8919.6100
off: 0.22
sig: 0.002

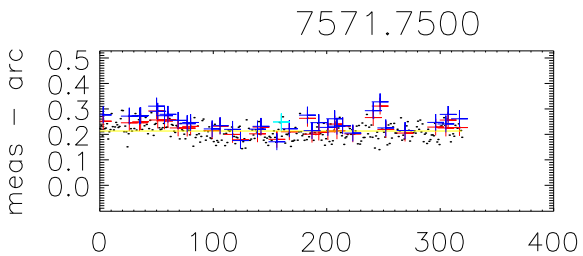

6300.3040
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

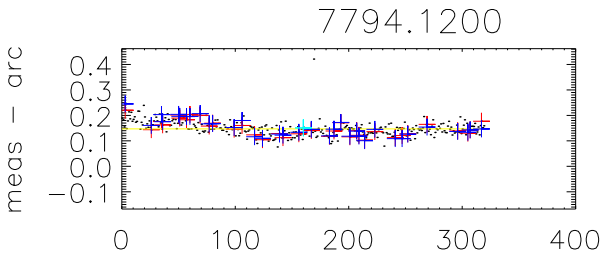

6363.7760
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

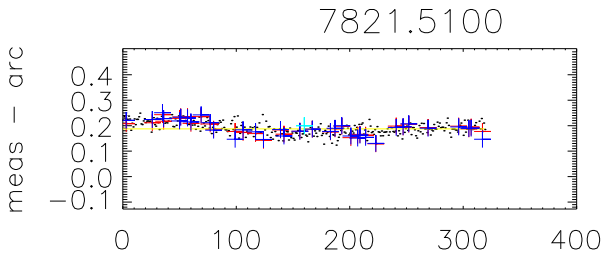

6553.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

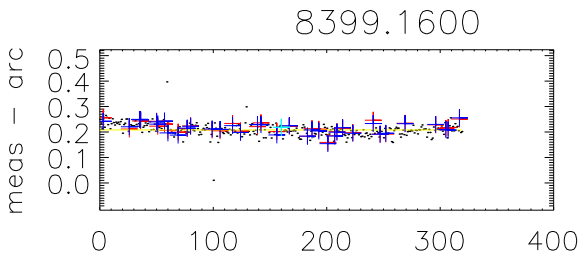

6923.2100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

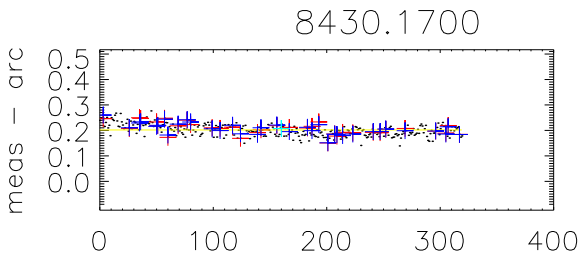

6949.0300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

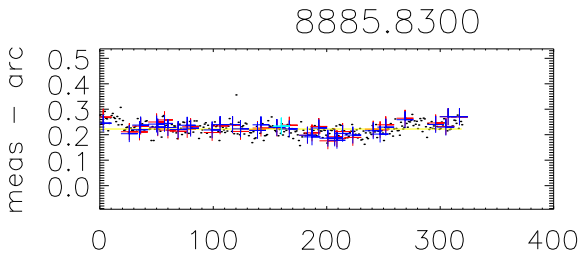

7571.7500
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

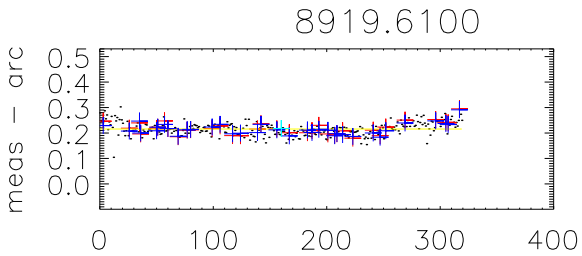

7794.1200
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

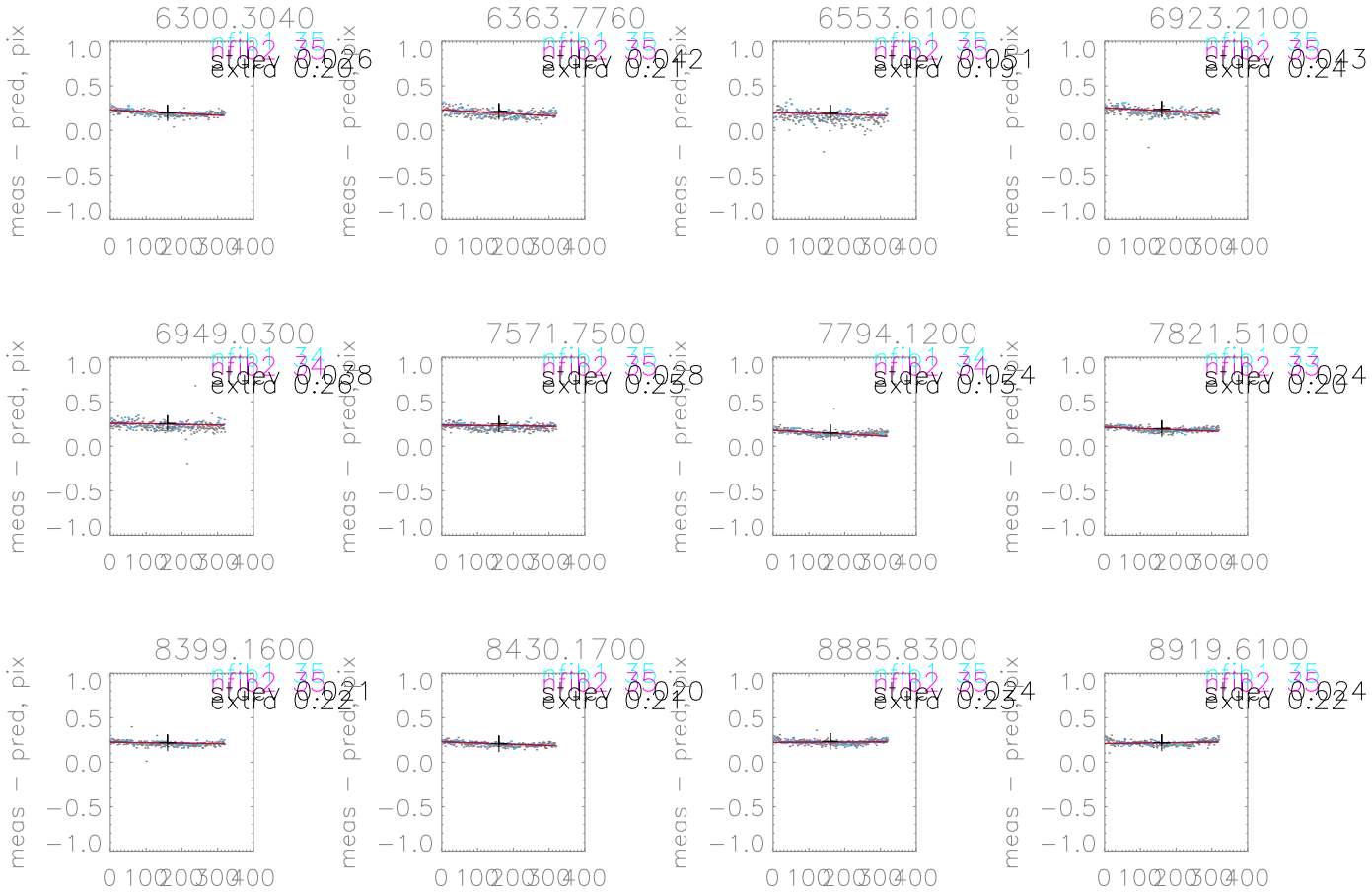

7821.5100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

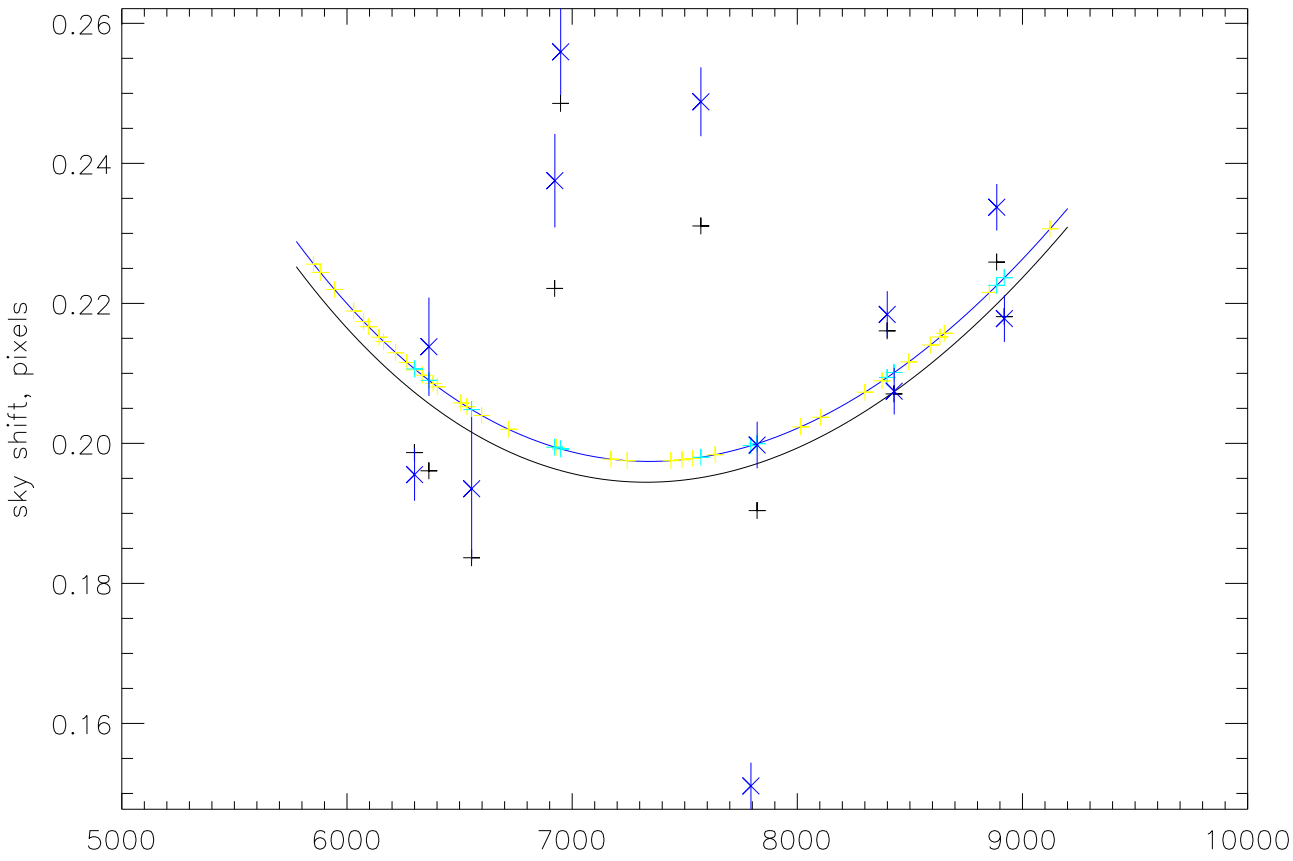

8399.1600
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

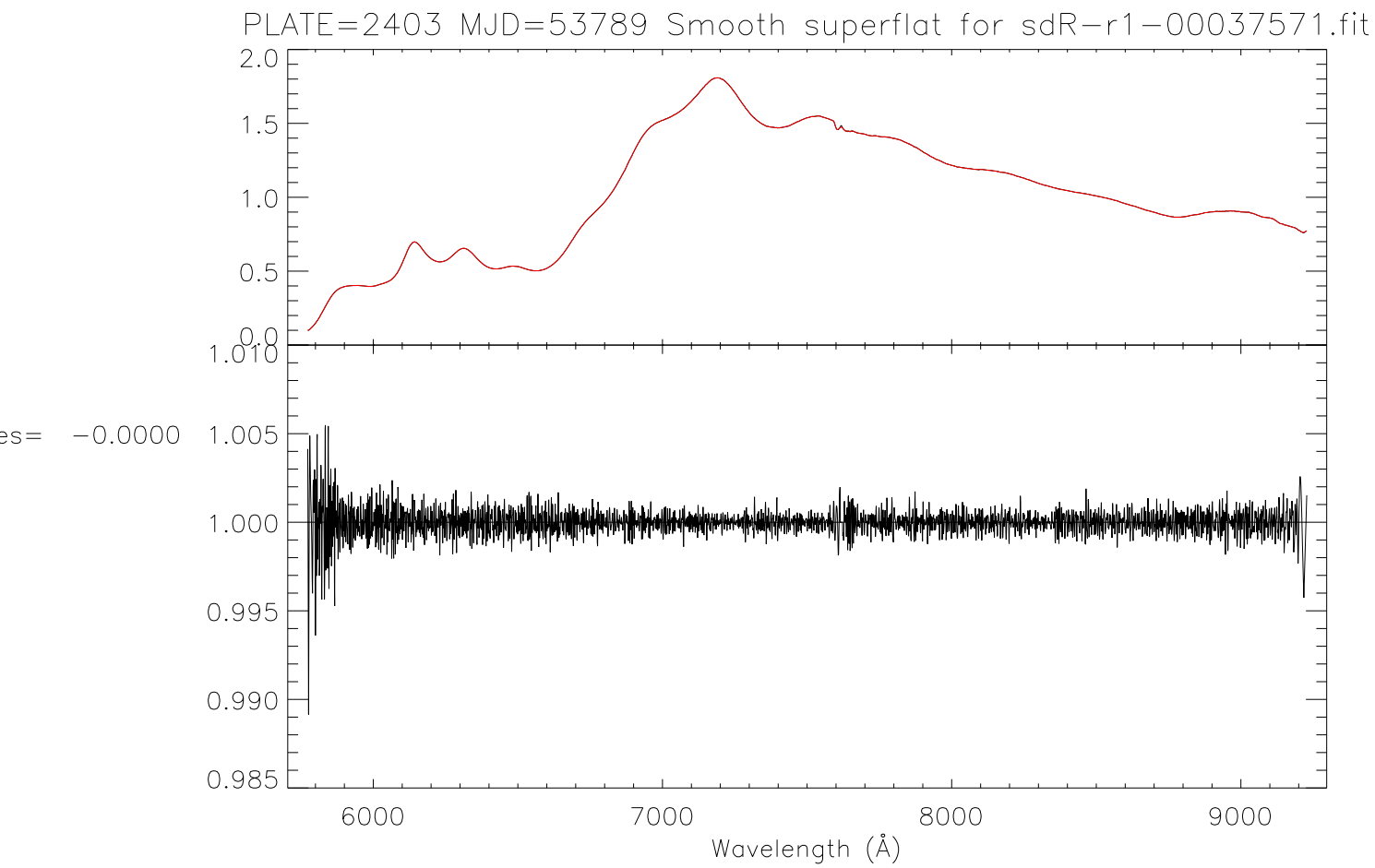

8430.1700
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

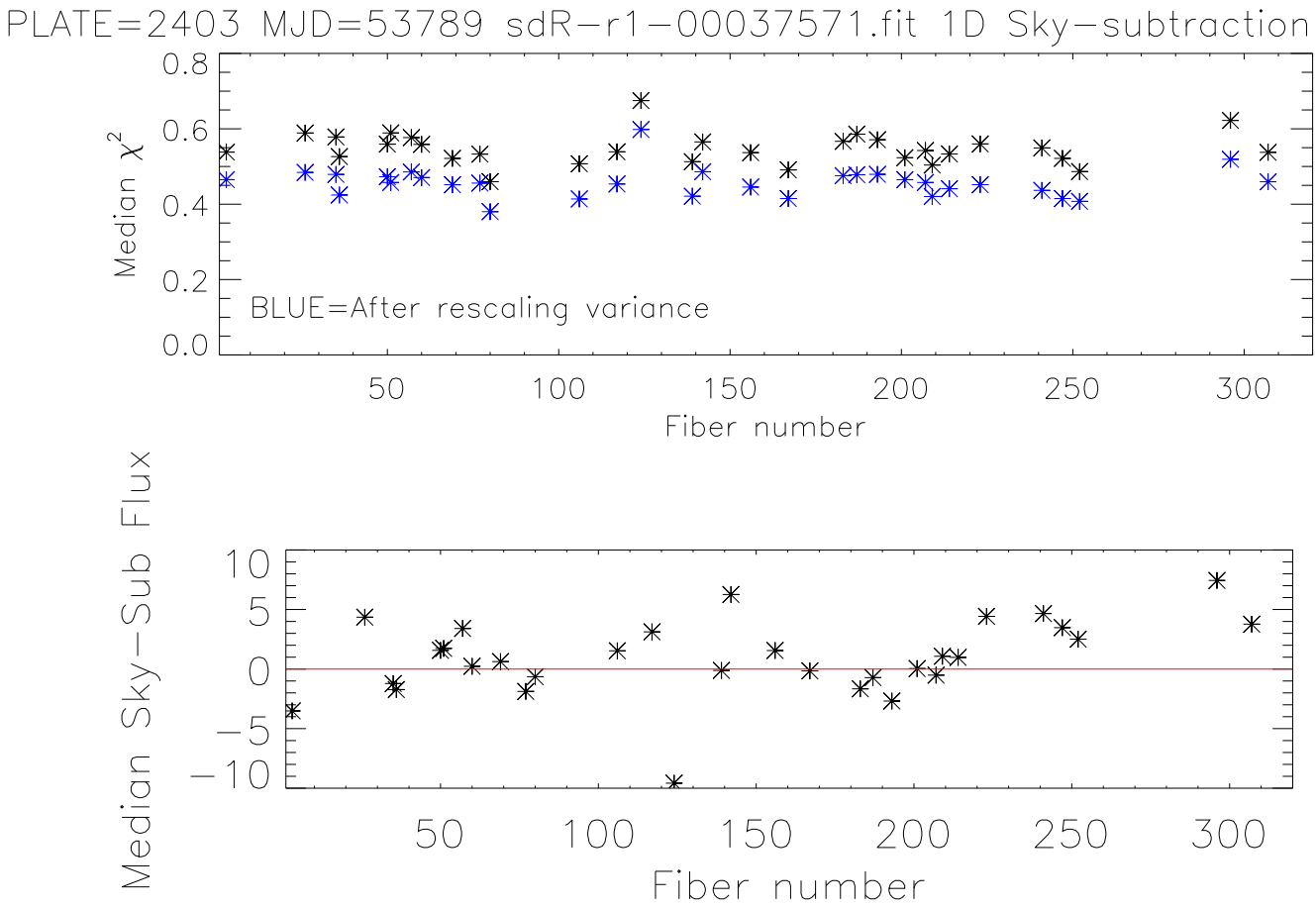

8885.8300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

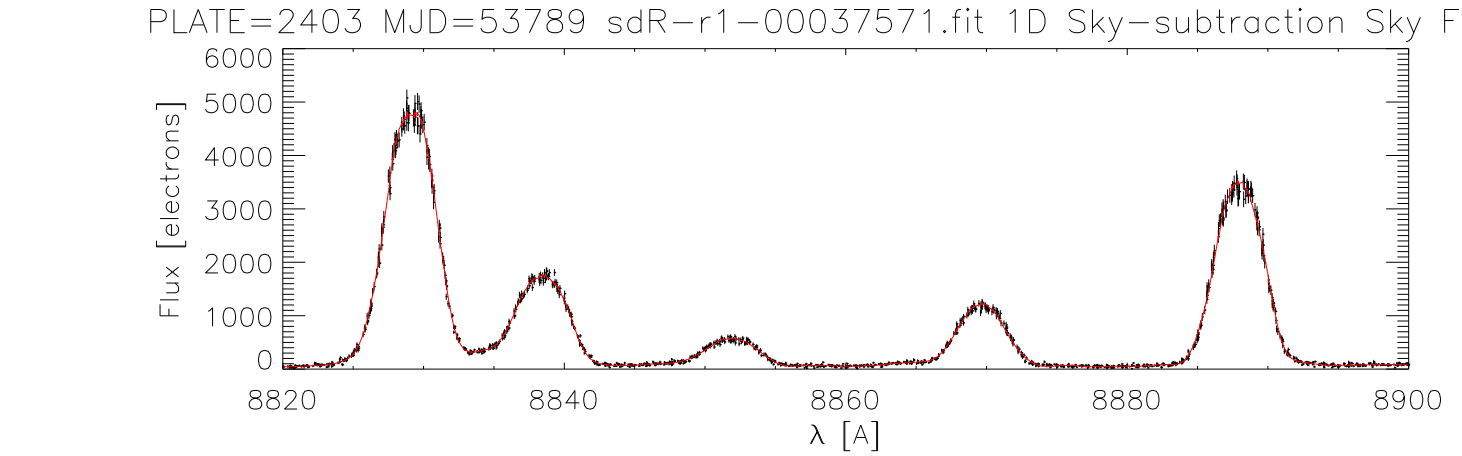

8919.6100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

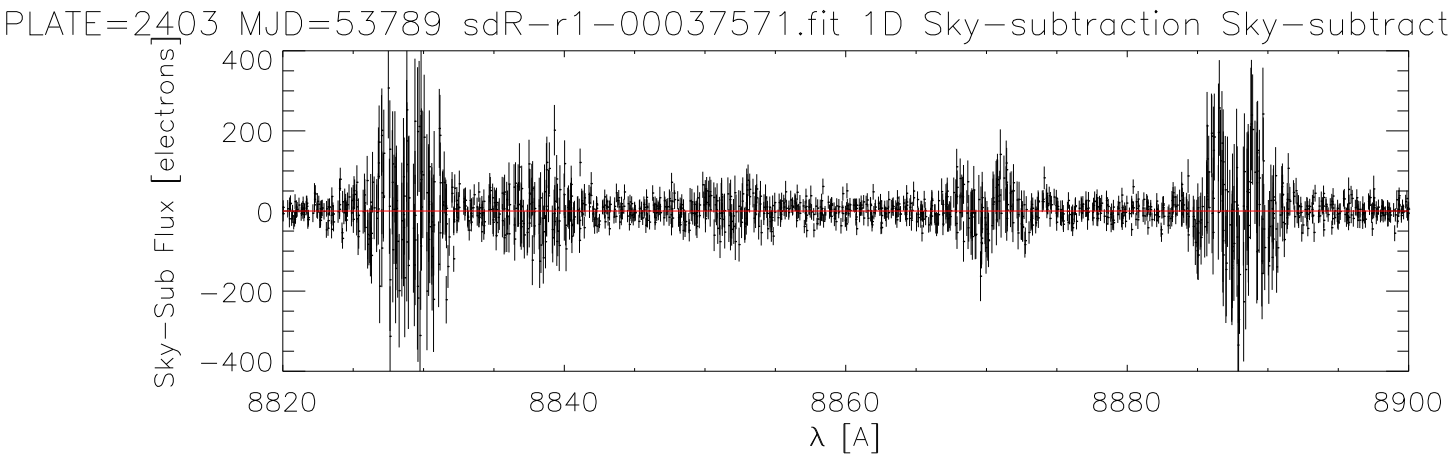

6300.3040
mfib1 35
mfib2 35
stdev 0.026
extra 0.26
6363.7760
mfib1 35
mfib2 35
stdev 0.042
extra 0.21
6553.6100
mfib1 35
mfib2 35
stdev 0.051
extra 0.19
6923.2100
mfib1 35
mfib2 35
stdev 0.043
extra 0.24
6949.0300
mfib1 34
mfib2 34
stdev 0.038
extra 0.26
7571.7500
mfib1 35
mfib2 35
stdev 0.028
extra 0.25
7794.1200
mfib1 34
mfib2 34
stdev 0.024
extra 0.15
7821.5100
mfib1 33
mfib2 33
stdev 0.024
extra 0.20
8399.1600
mfib1 35
mfib2 35
stdev 0.021
extra 0.22
8430.1700
mfib1 35
mfib2 35
stdev 0.020
extra 0.21
8885.8300
mfib1 35
mfib2 35
stdev 0.024
extra 0.23
8919.6100
mfib1 35
mfib2 35
stdev 0.024
extra 0.22
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

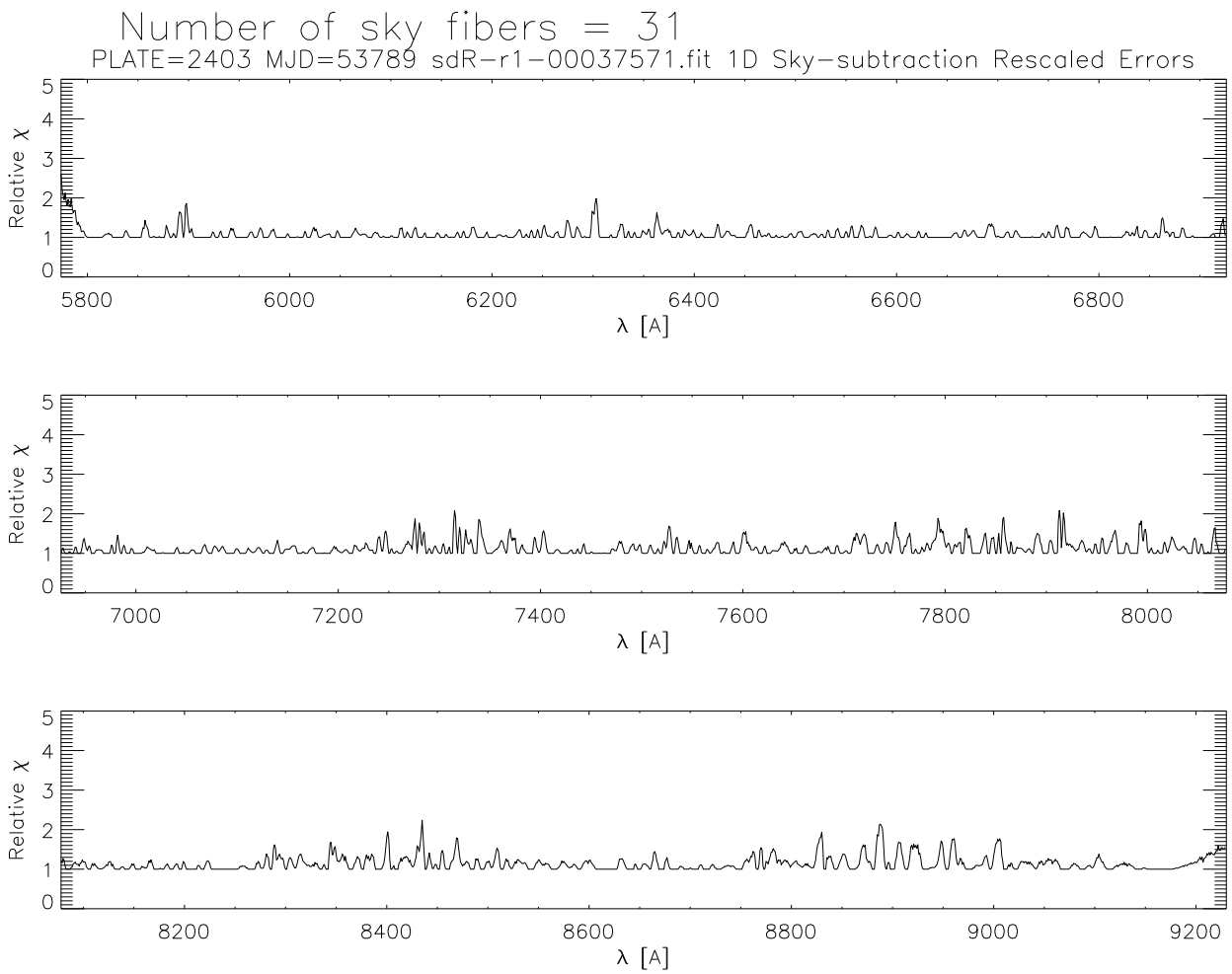

0.26
0.24
0.22
0.20
0.18
0.16
sky shift, pixels
5000
6000
7000
8000
9000
10000

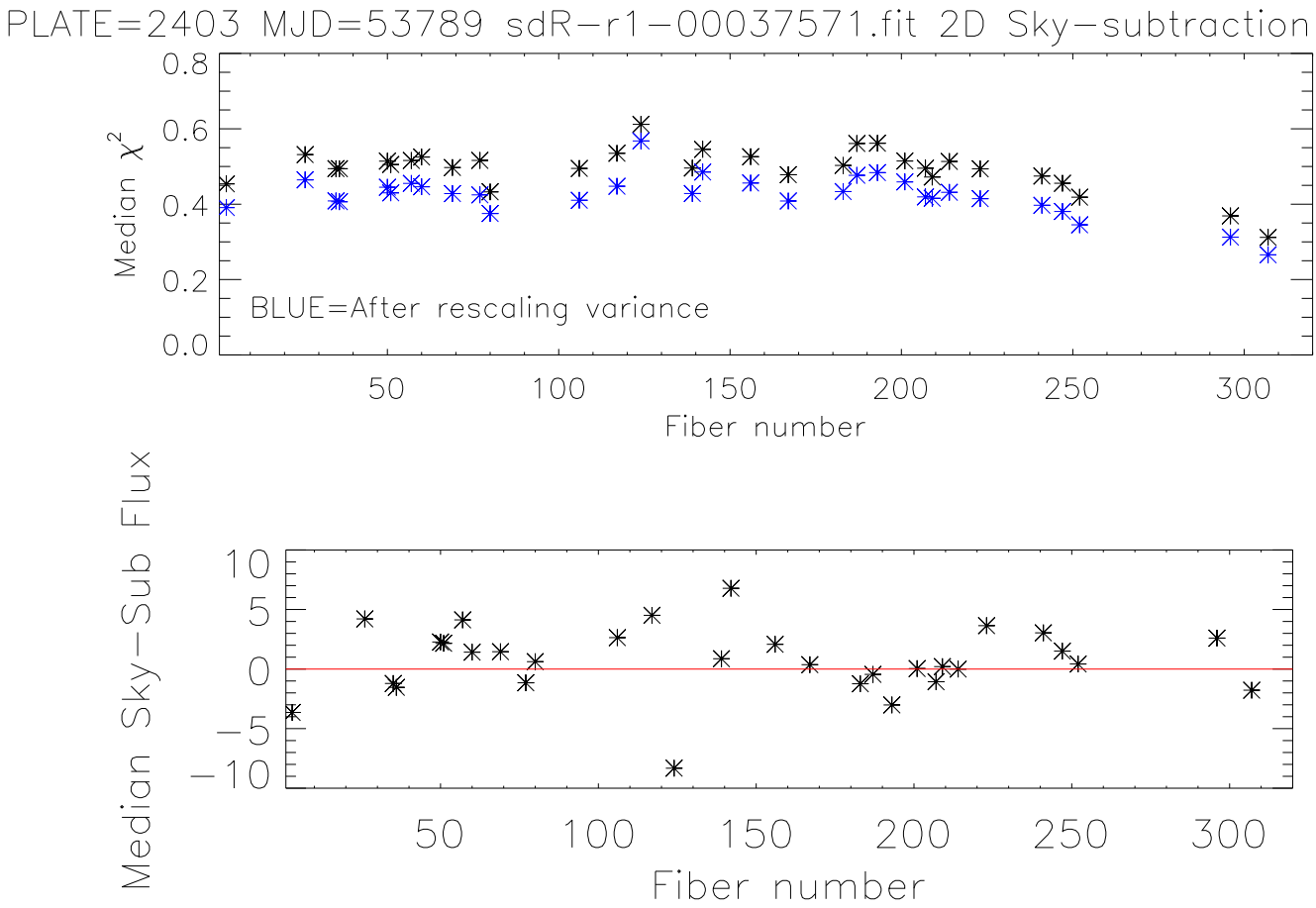

PLATE=2403 MJD=53789 Smooth superflat for sdR-r1-00037571.fit
2.0
1.5
1.0
0.5
0.0
1.010
es= −0.0000
1.005
1.000
0.995
0.990
0.985
6000
7000
8000
9000
Wavelength (Å)

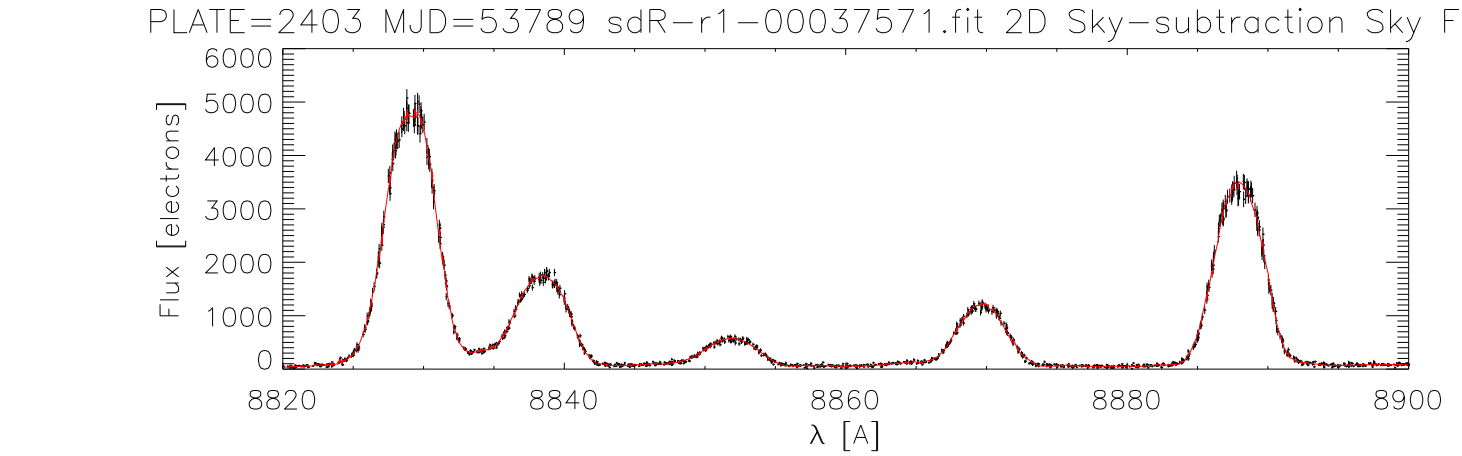

PLATE=2403 MJD=53789 sdR-r1-00037571.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

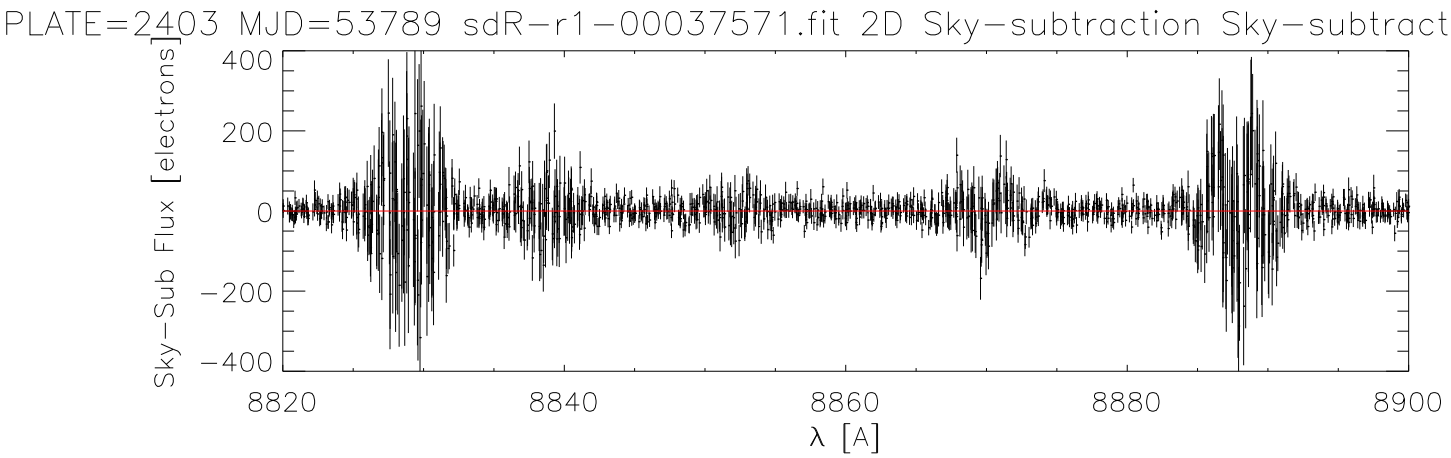

PLATE=2403 MJD=53789 sdR-r1-00037571.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

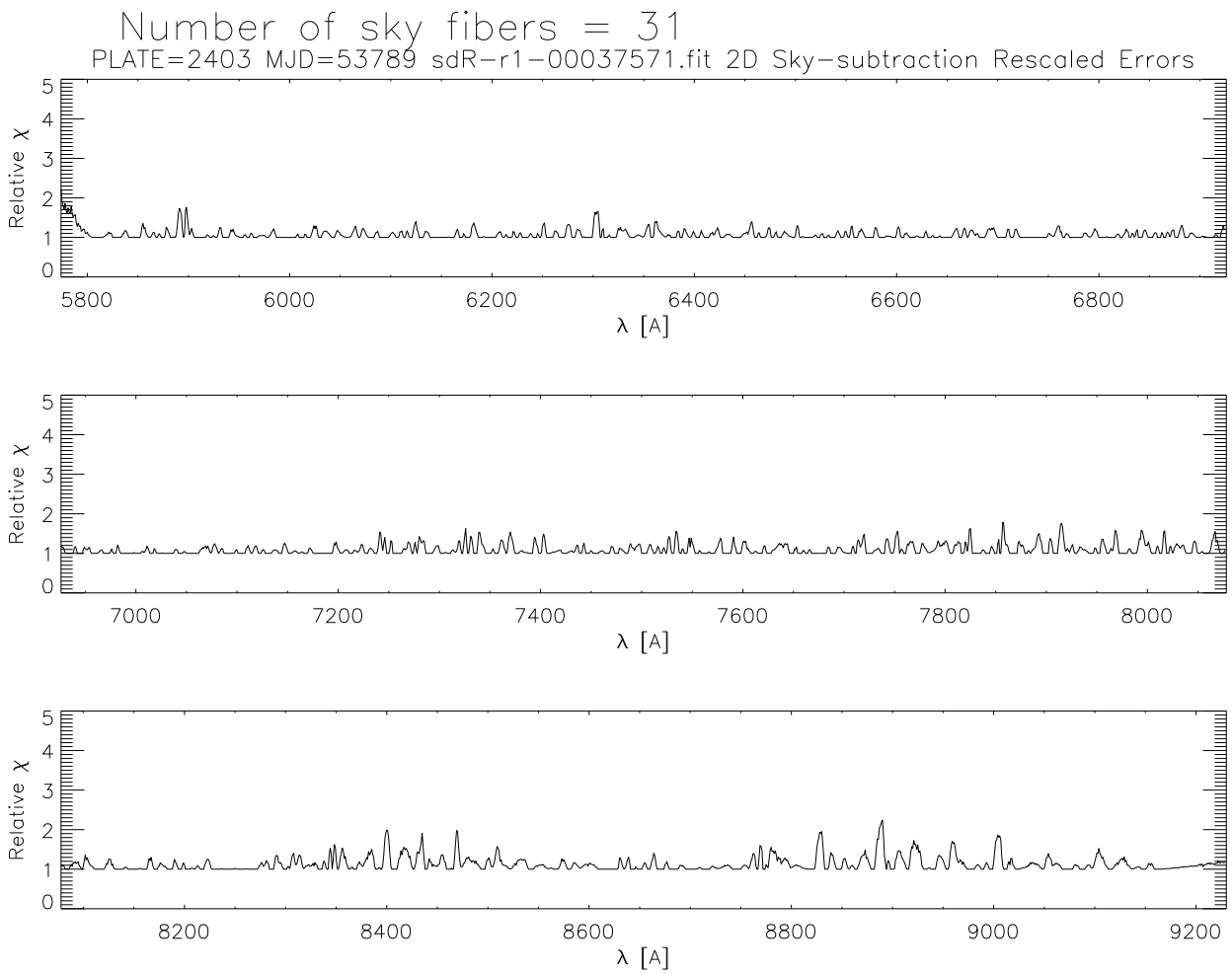

PLATE=2403 MJD=53789 sdR-r1-00037571.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

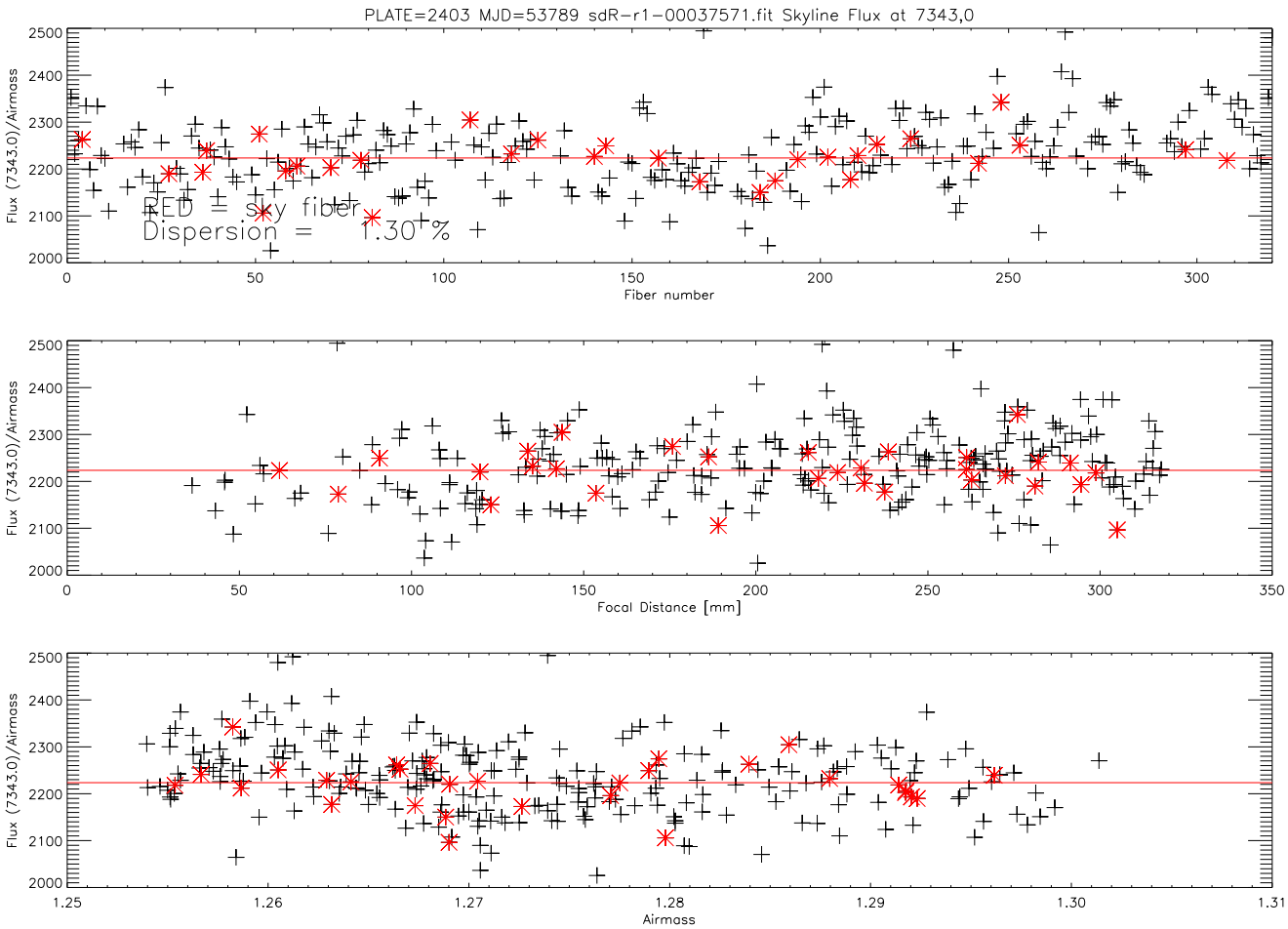

Number of sky fibers = 31
PLATE=2403 MJD=53789 sdR-r1-00037571.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

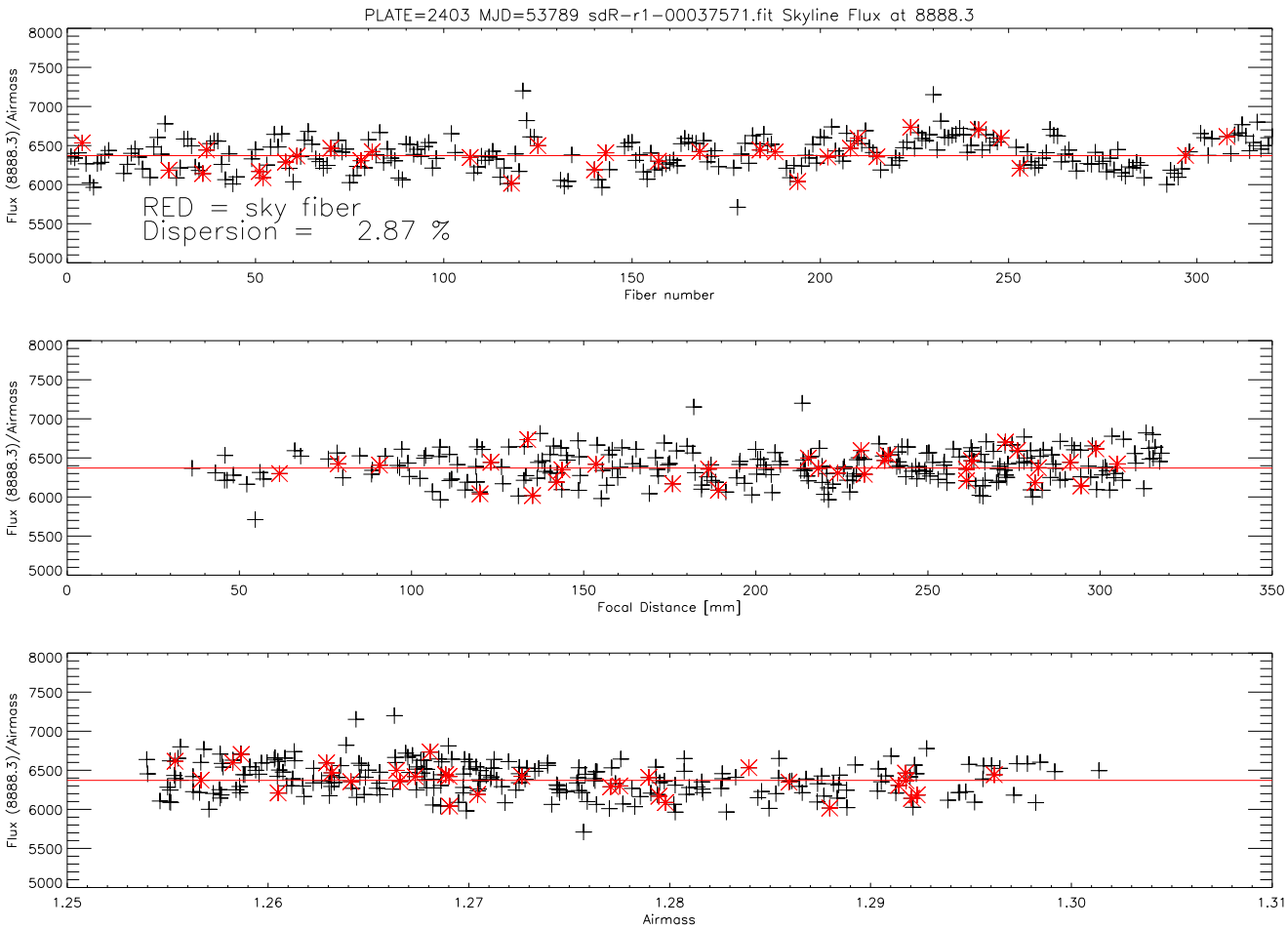

PLATE=2403 MJD=53789 sdR-r1-00037571.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

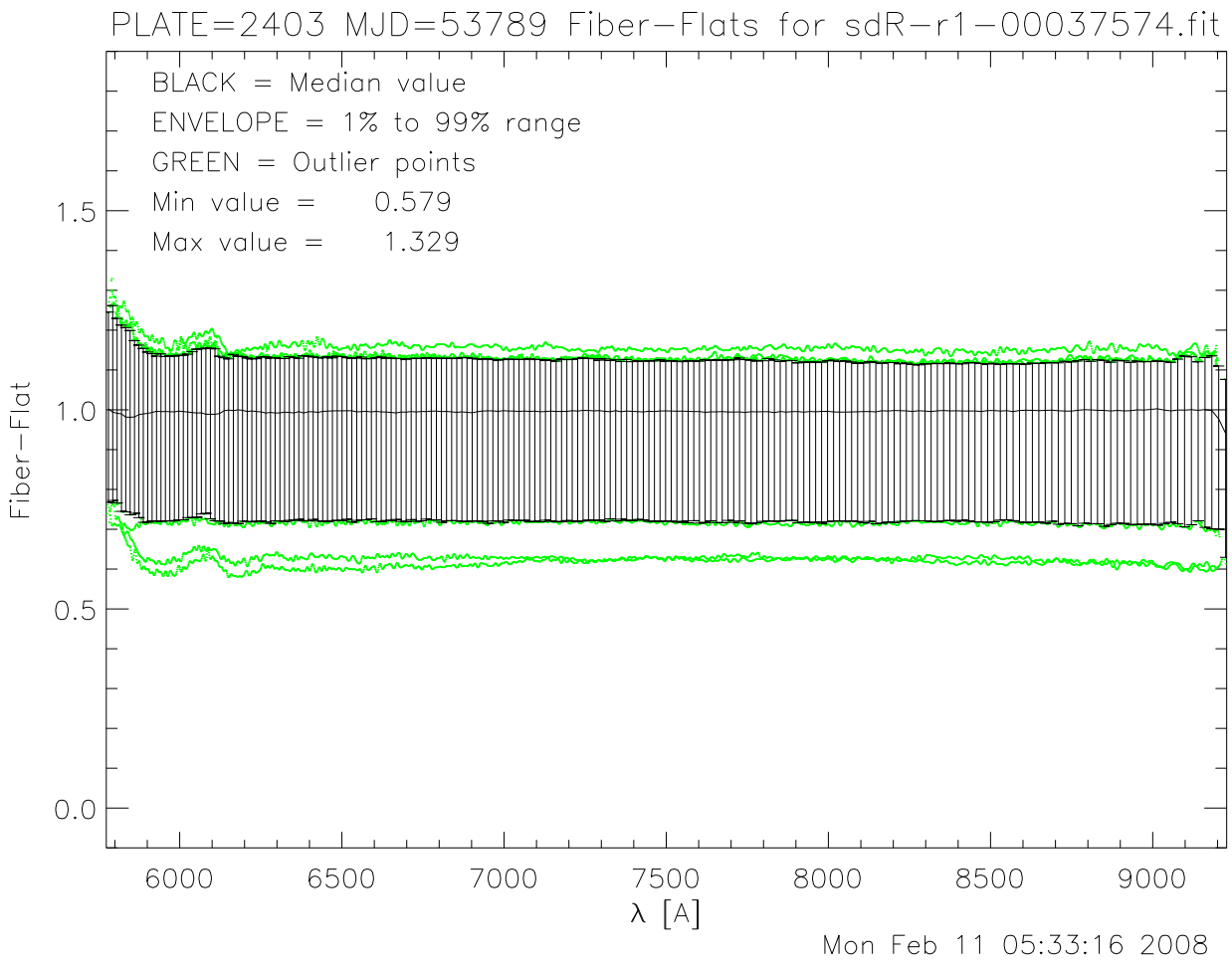

PLATE=2403 MJD=53789 sdR-r1-00037571.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

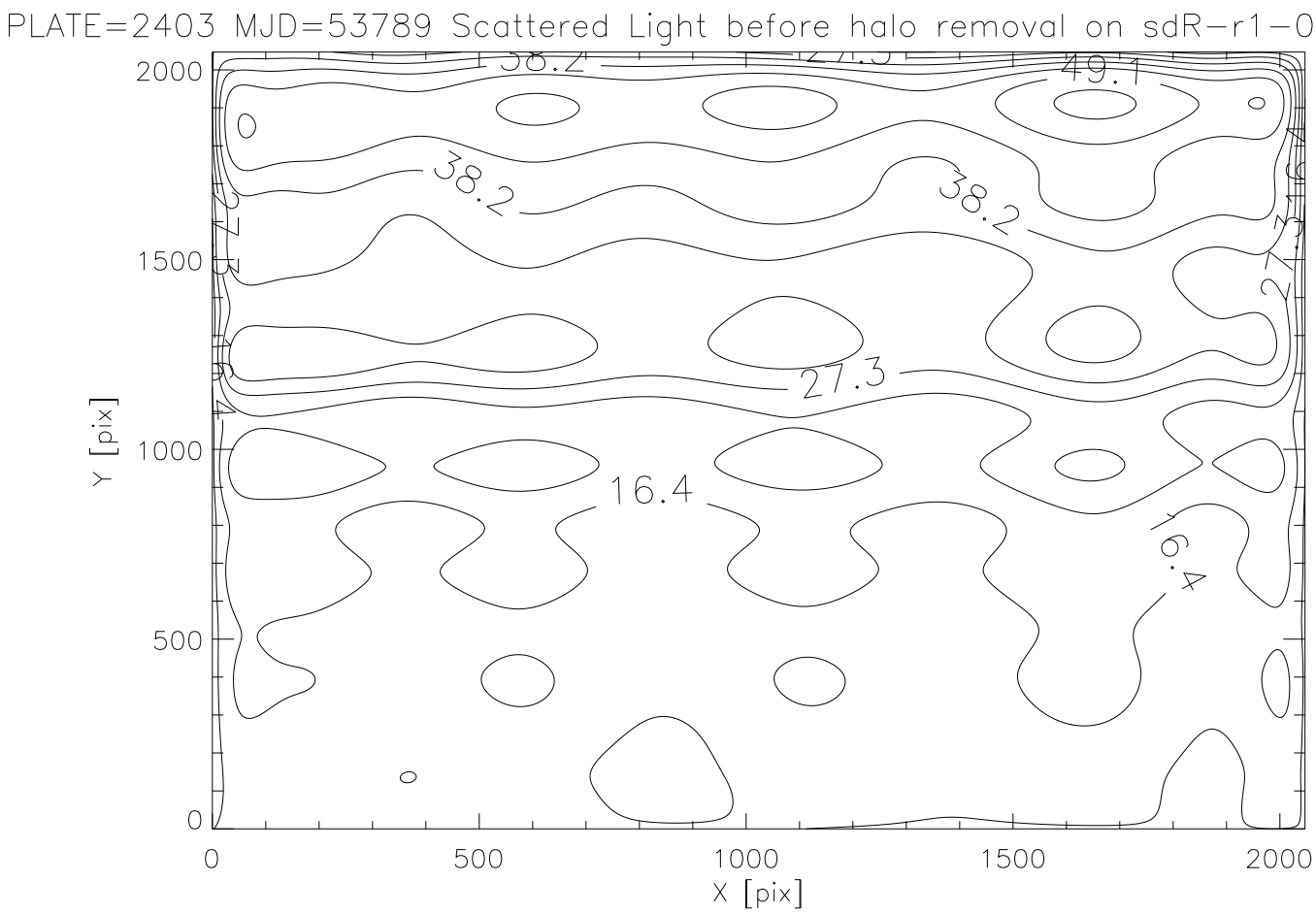

PLATE=2403 MJD=53789 sdR-r1-00037571.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

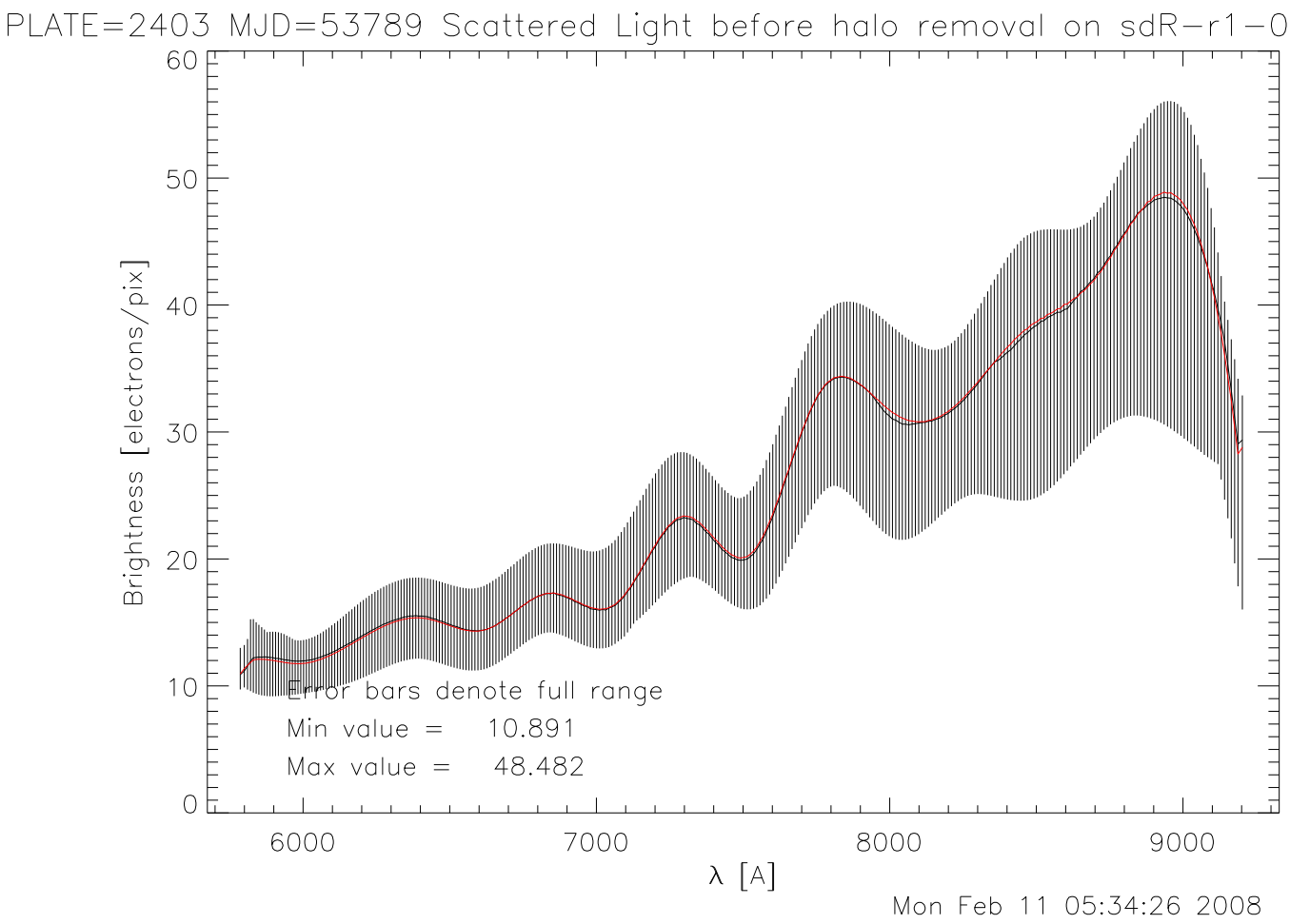

Number of sky fibers = 31
PLATE=2403 MJD=53789 sdR-r1-00037571.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

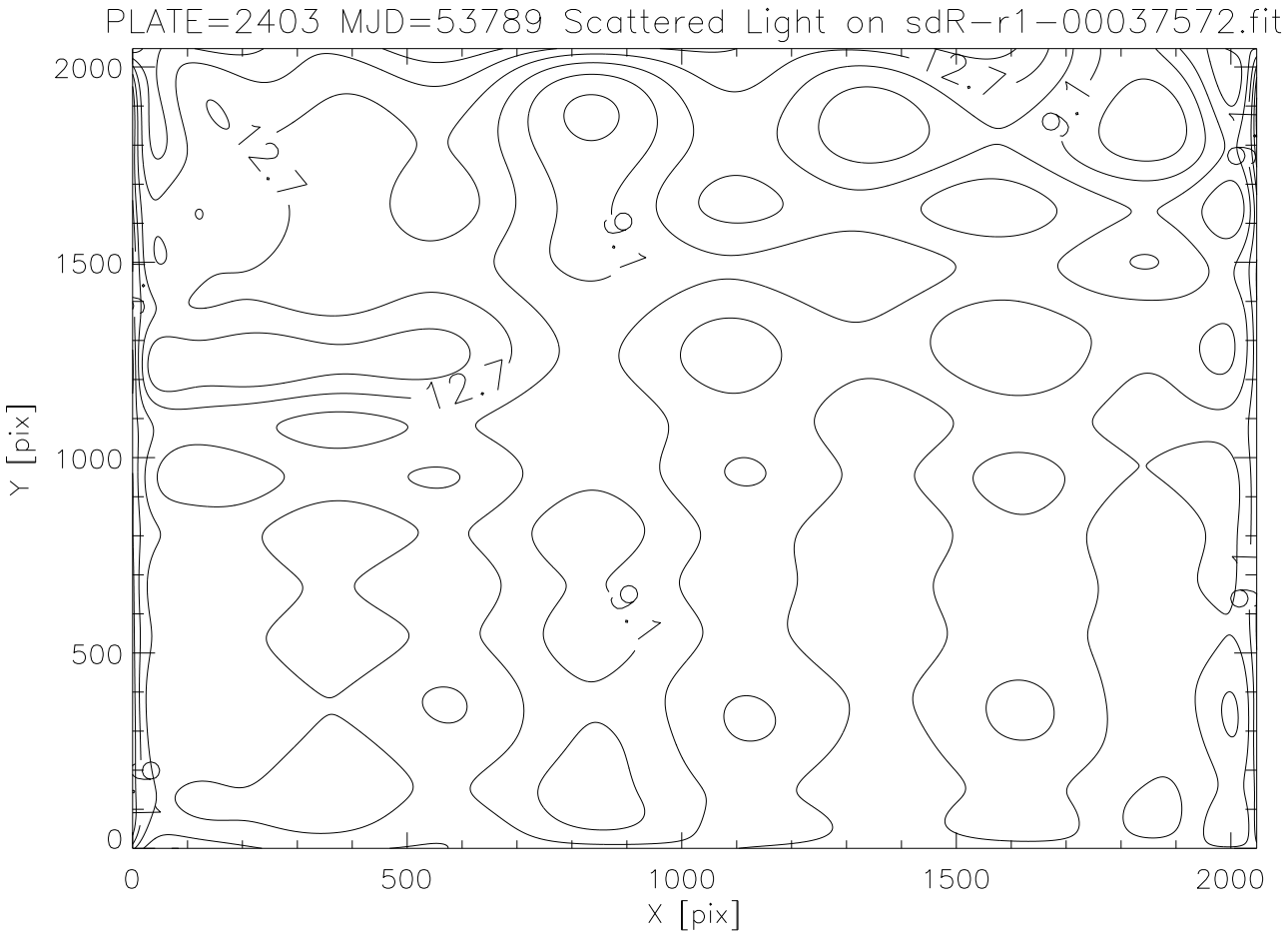

PLATE=2403 MJD=53789 sdR-r1-00037571.fit Skyline Flux at 7343.0
RED = sky fiber
Dispersion = 1.30%
Flux (7343.0)/Airmass
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

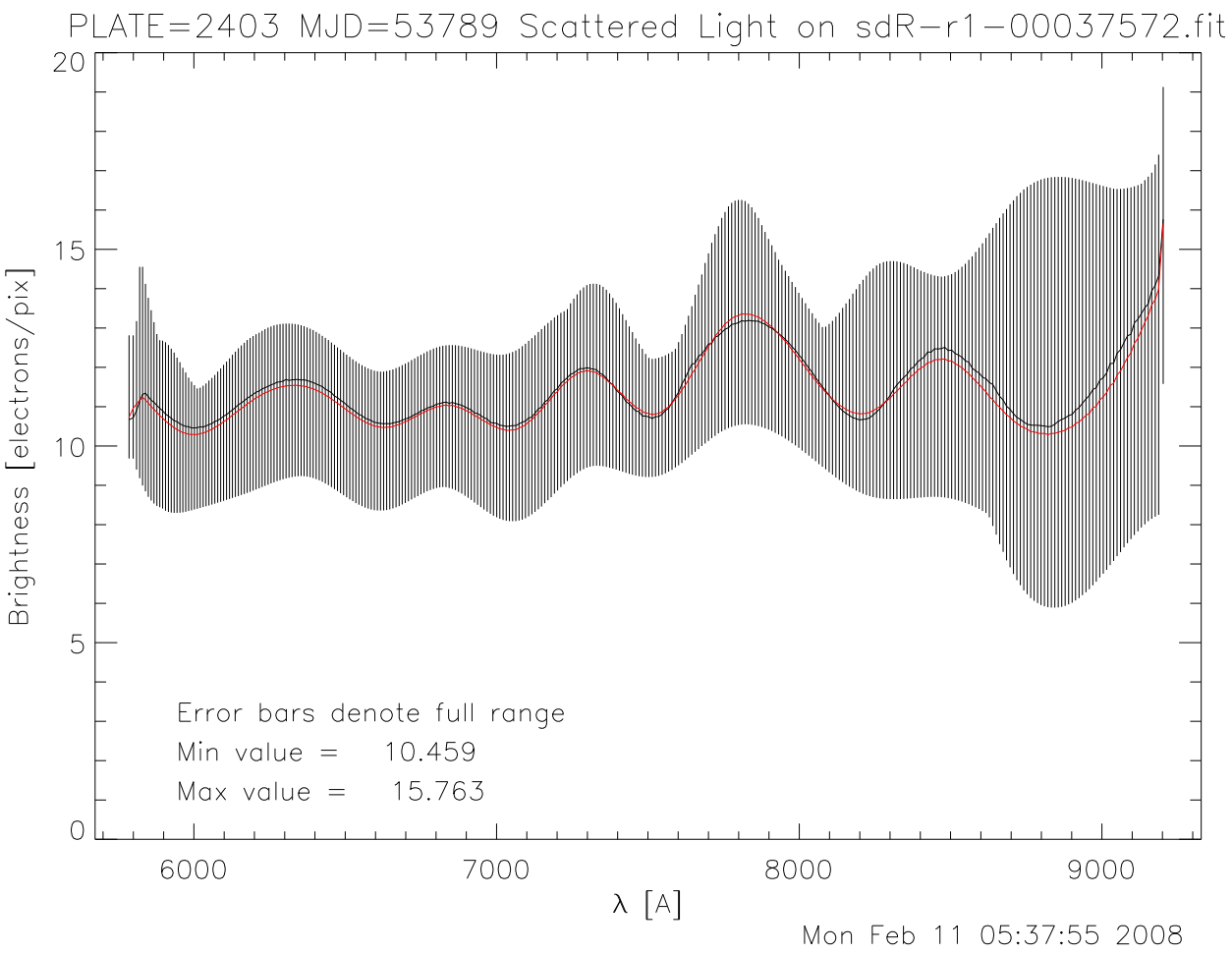

PLATE=2403 MJD=53789 sdR-r1-00037571.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.87 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

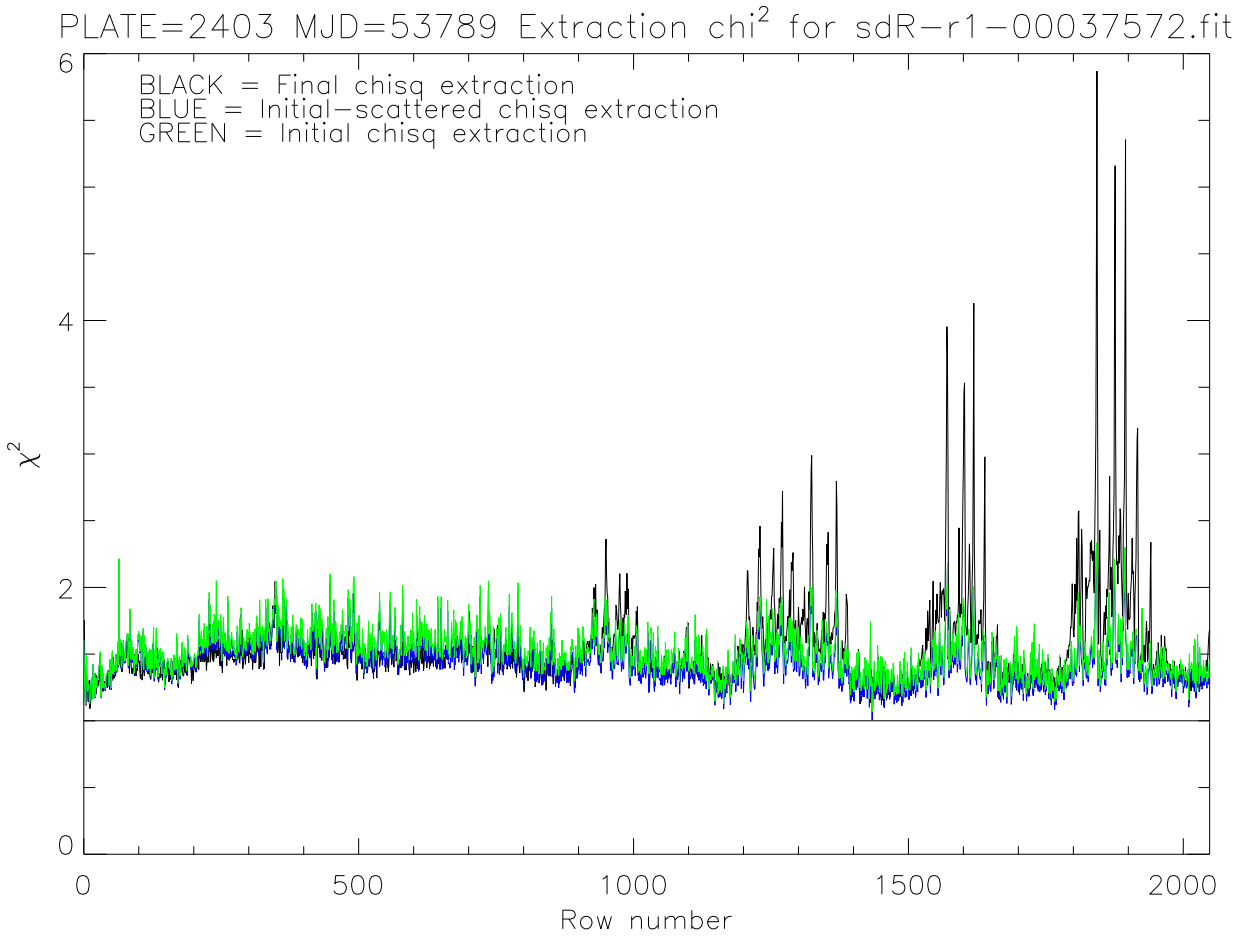

PLATE=2403 MJD=53789 Fiber−Flats for sdR−r1−00037574.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.579
Max value = 1.329
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 11 05:33:16 2008

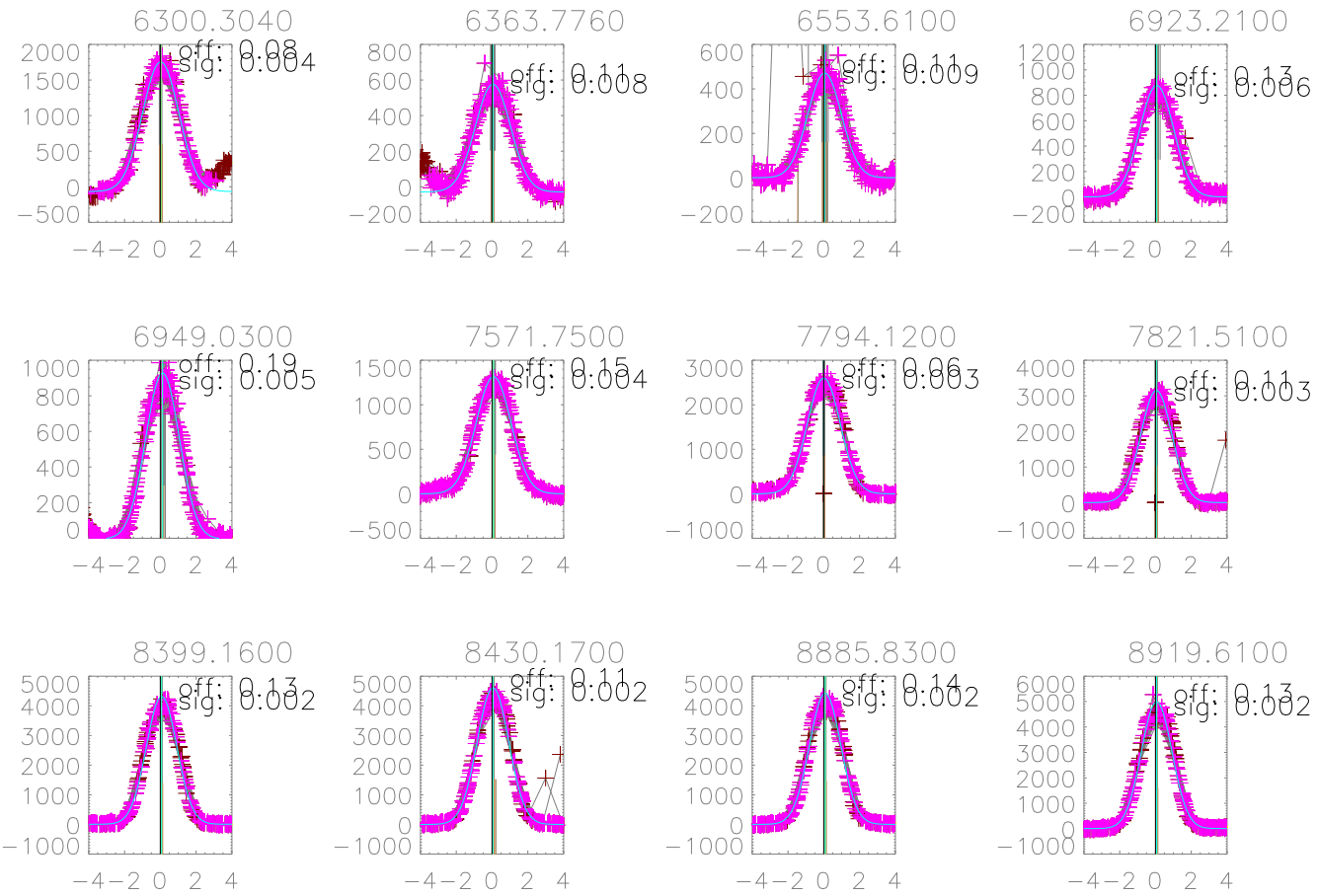

PLATE=2403 MJD=53789 Scattered Light before halo removal on sdR-r1-00037572.fi
38.2
49.1
0
38.2
38.2
27.3
27.3
16.4
16.4
0
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

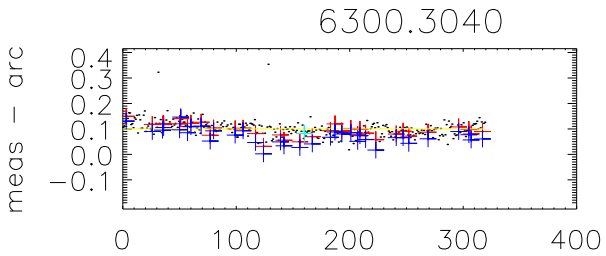

PLATE=2403 MJD=53789 Scattered Light before halo removal on sdR-r1-00037572.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 10.891
Max value = 48.482
Mon Feb 11 05:34:26 2008

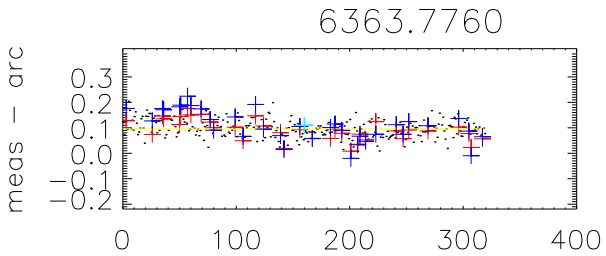

PLATE=2403 MJD=53789 Scattered Light on sdR-r1-00037572.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
12.7
9.7
12.7
9.7
12.7
9.7

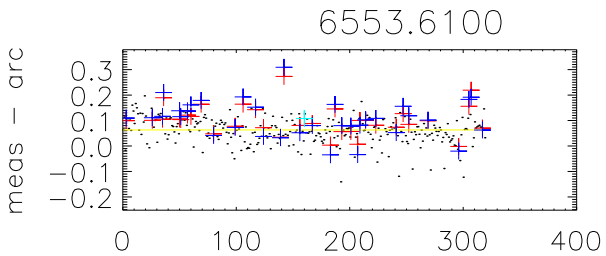

PLATE=2403 MJD=53789 Scattered Light on sdR-r1-00037572.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 10.459
Max value = 15.763
Mon Feb 11 05:37:55 2008

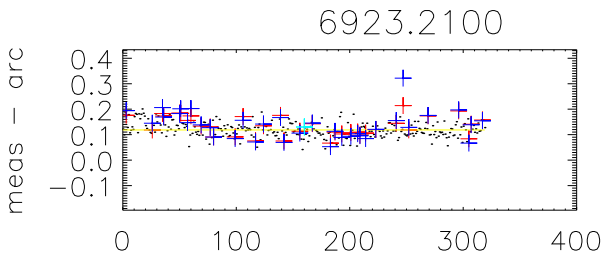

PLATE=2403 MJD=53789 Extraction chi^2 for sdR−r1−00037572.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
0
500
1000
1500
2000
Row number

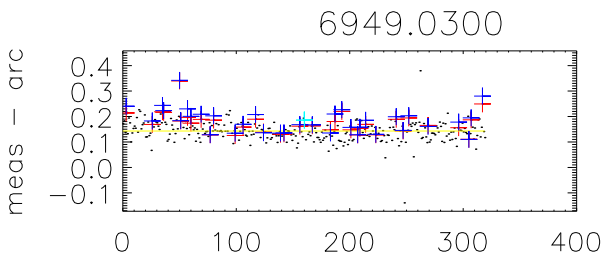

6300.3040
off: 0.08
sig: 0.004
6363.7760
off: 0.11
sig: 0.008
6553.6100
off: 0.11
sig: 0.009
6923.2100
off: 0.13
sig: 0.006
6949.0300
off: 0.19
sig: 0.005
7571.7500
off: 0.15
sig: 0.004
7794.1200
off: 0.06
sig: 0.003
7821.5100
off: 0.11
sig: 0.003
8399.1600
off: 0.13
sig: 0.002
8430.1700
off: 0.11
sig: 0.002
8885.8300
off: 0.14
sig: 0.002
8919.6100
off: 0.13
sig: 0.002

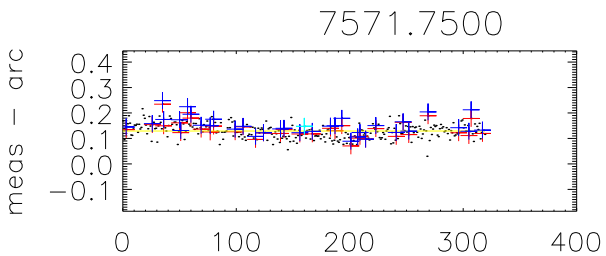

6300.3040
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

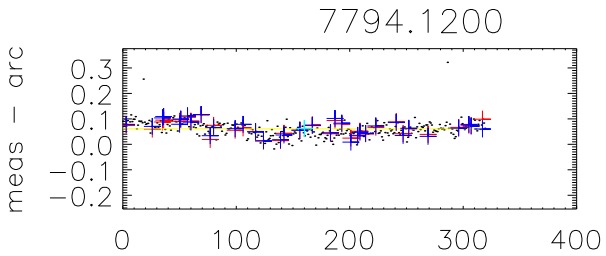

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

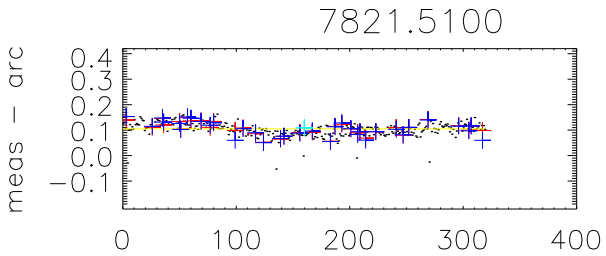

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

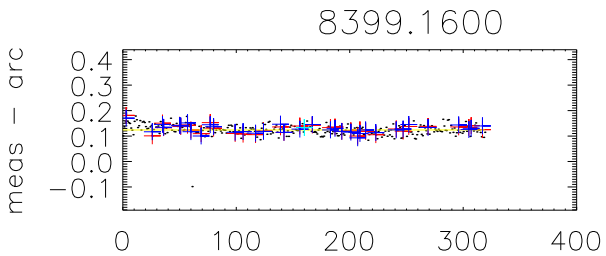

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

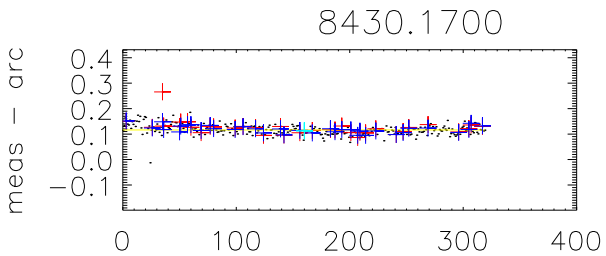

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

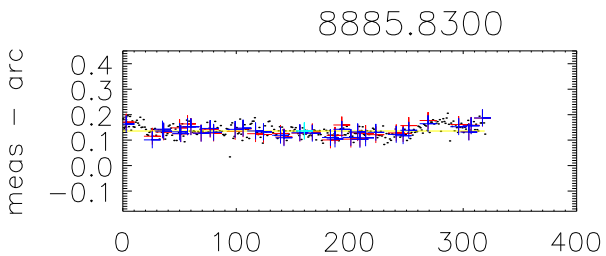

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

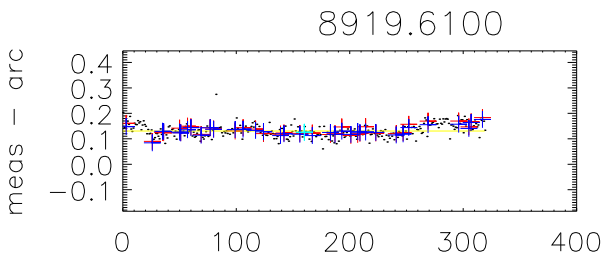

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

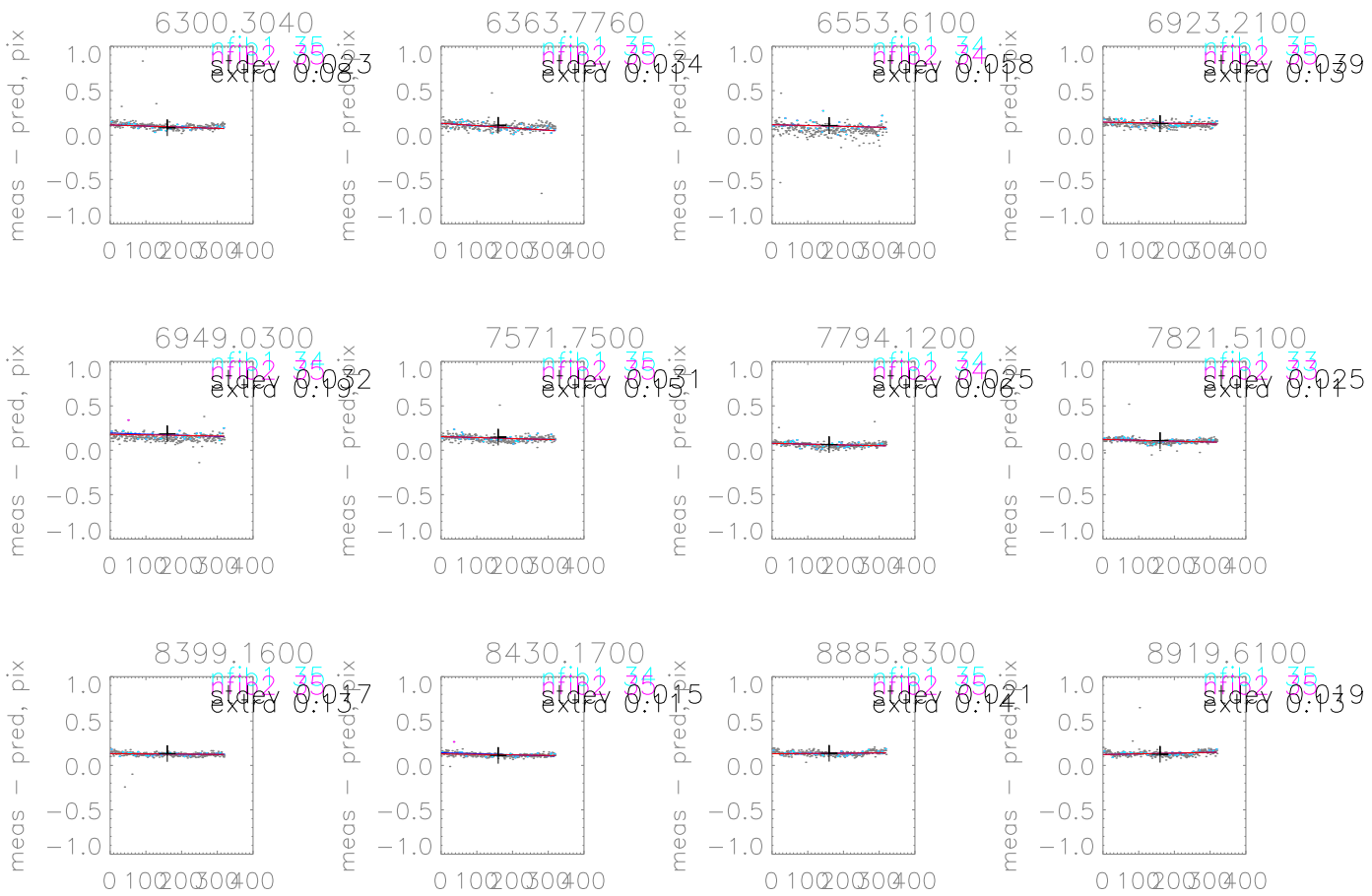

7821.5100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

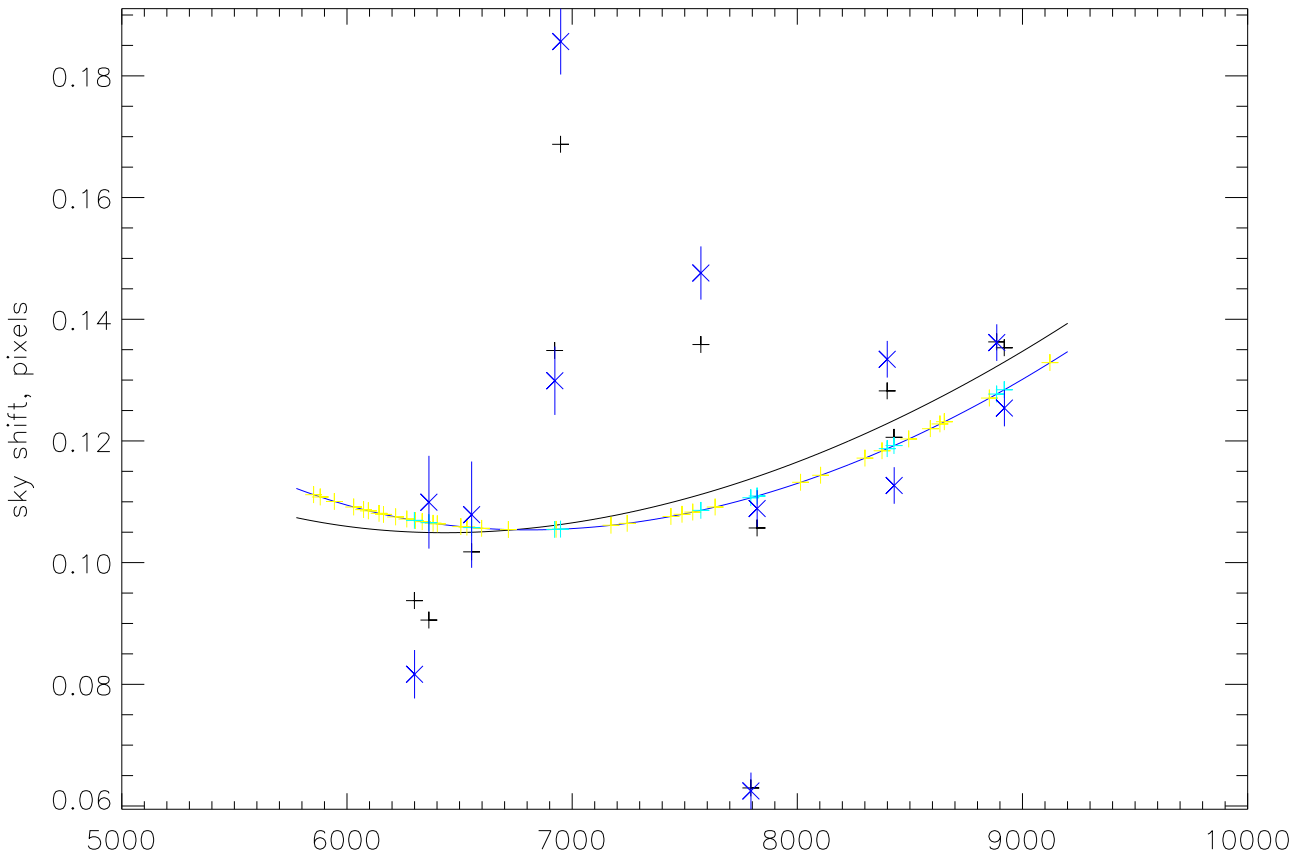

8399.1600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

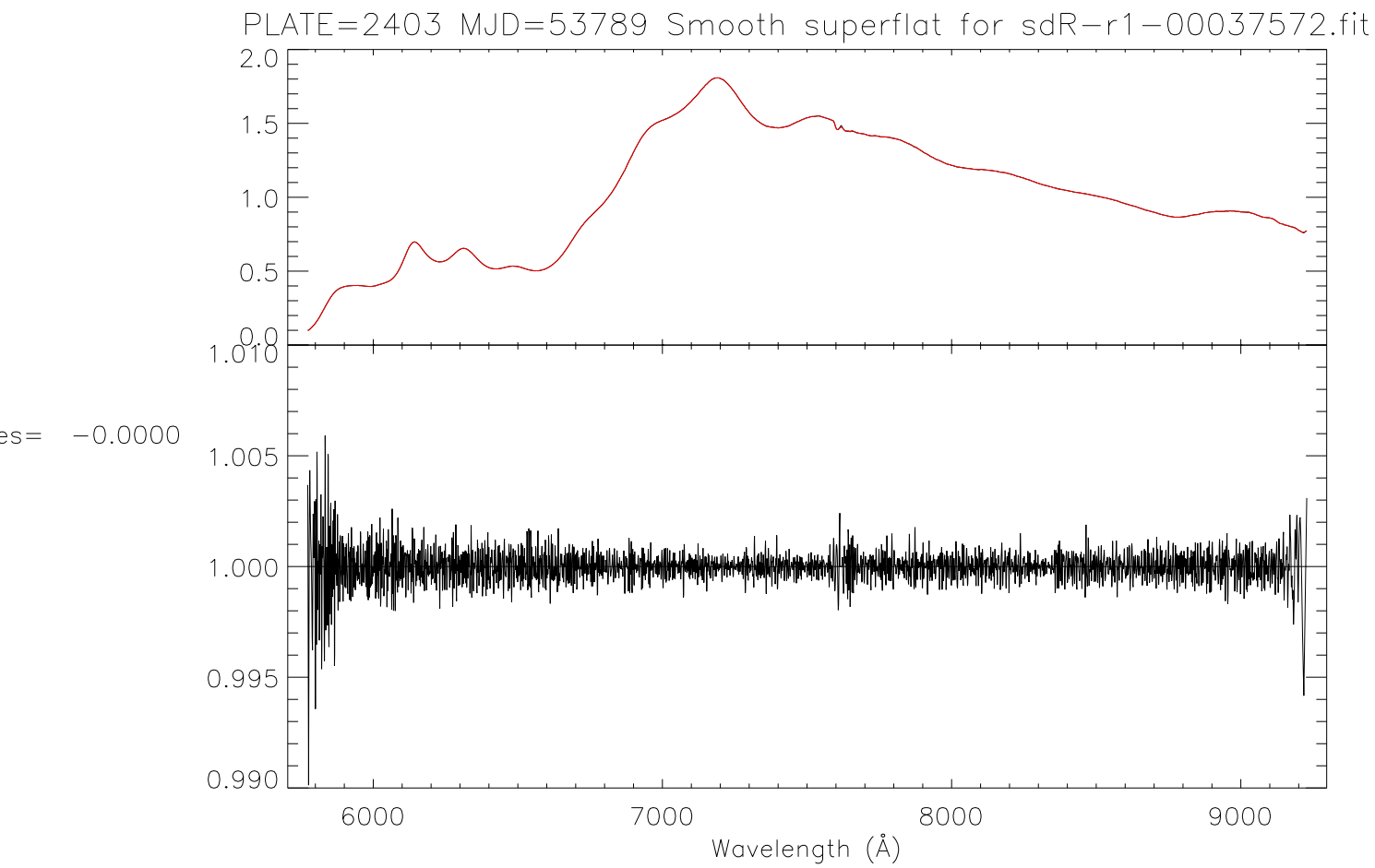

8430.1700
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

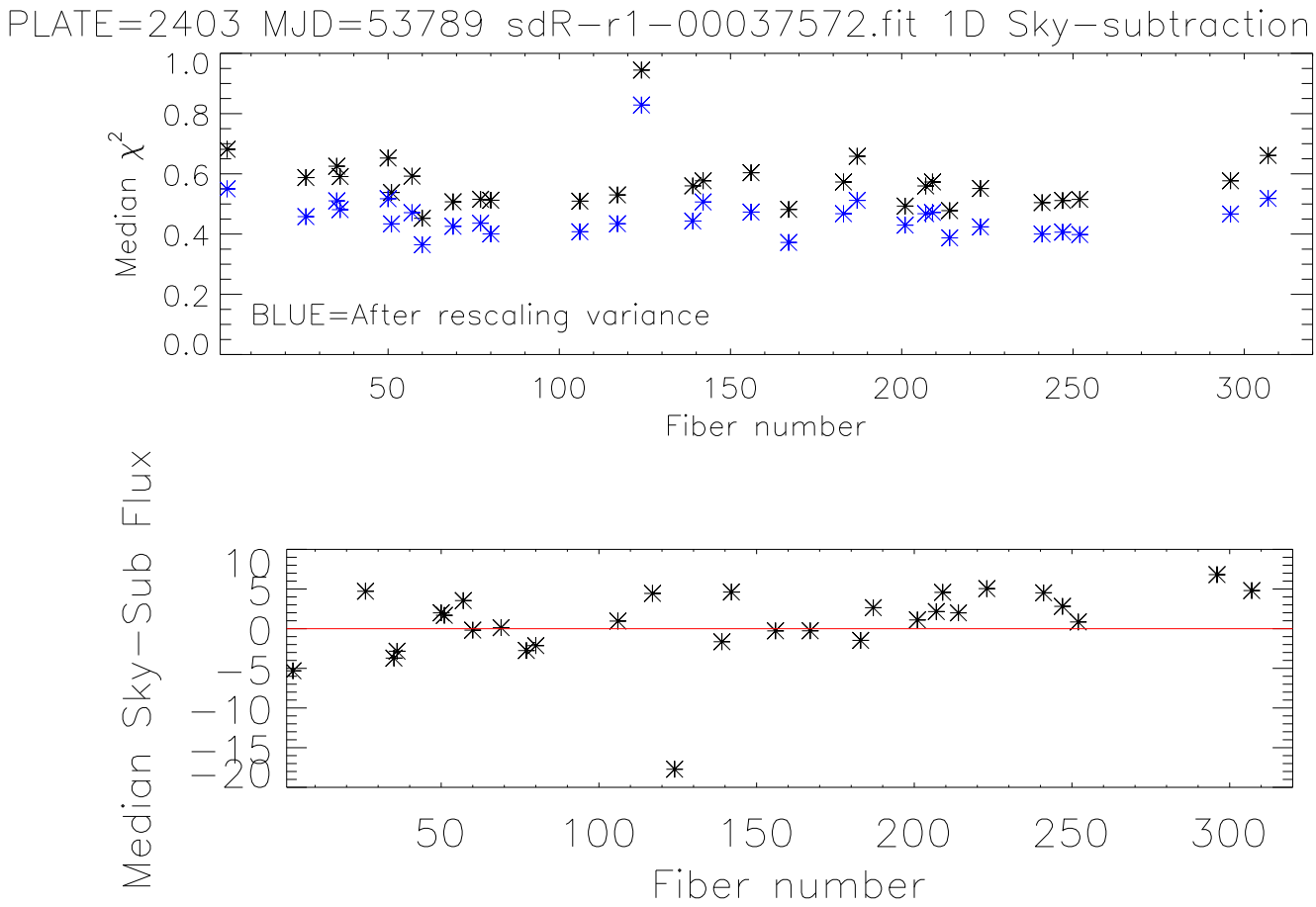

8885.8300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

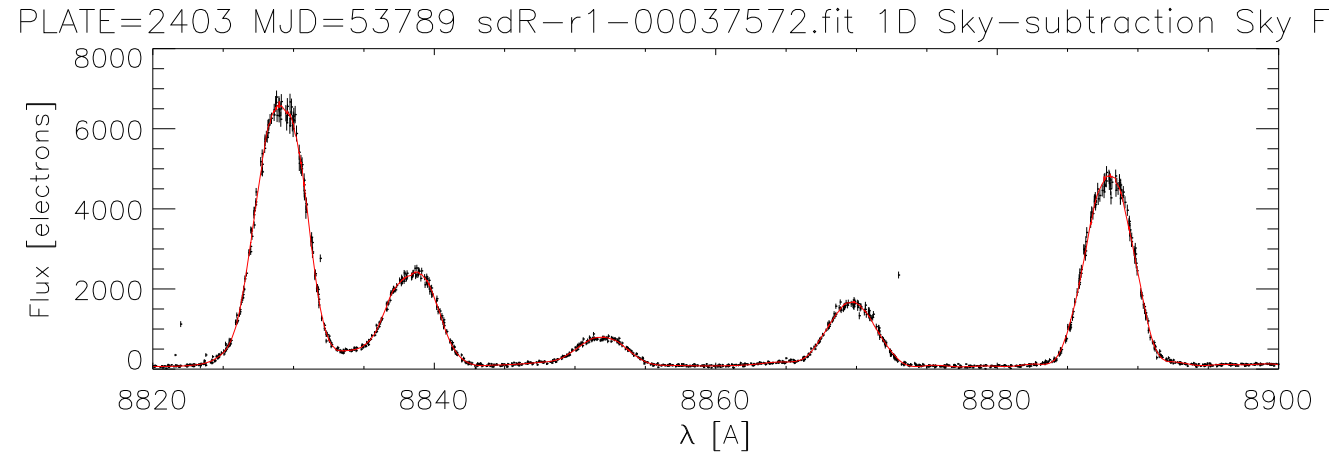

8919.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

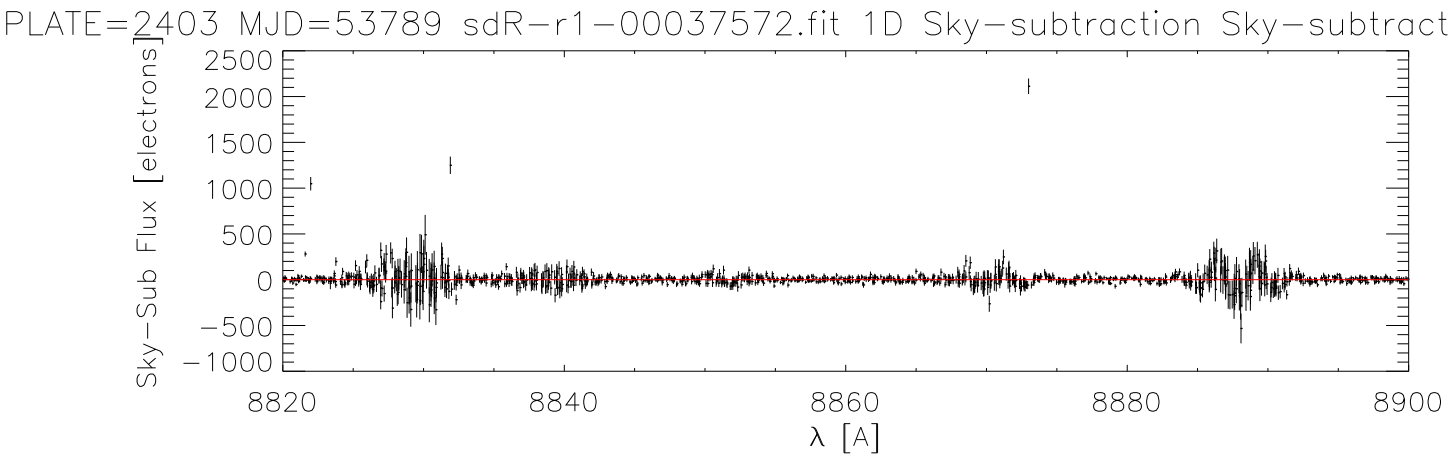

6300.3040
stdev 0.023
extra 0.082
6363.7760
stdev 0.034
extra 0.104
6553.6100
stdev 0.058
extra 0.108
6923.2100
stdev 0.039
extra 0.139
6949.0300
stdev 0.032
extra 0.092
7571.7500
stdev 0.051
extra 0.151
7794.1200
stdev 0.025
extra 0.06
7821.5100
stdev 0.025
extra 0.11
8399.1600
stdev 0.017
extra 0.13
8430.1700
stdev 0.015
extra 0.11
8885.8300
stdev 0.021
extra 0.14
8919.6100
stdev 0.019
extra 0.139
meas − pred, pix

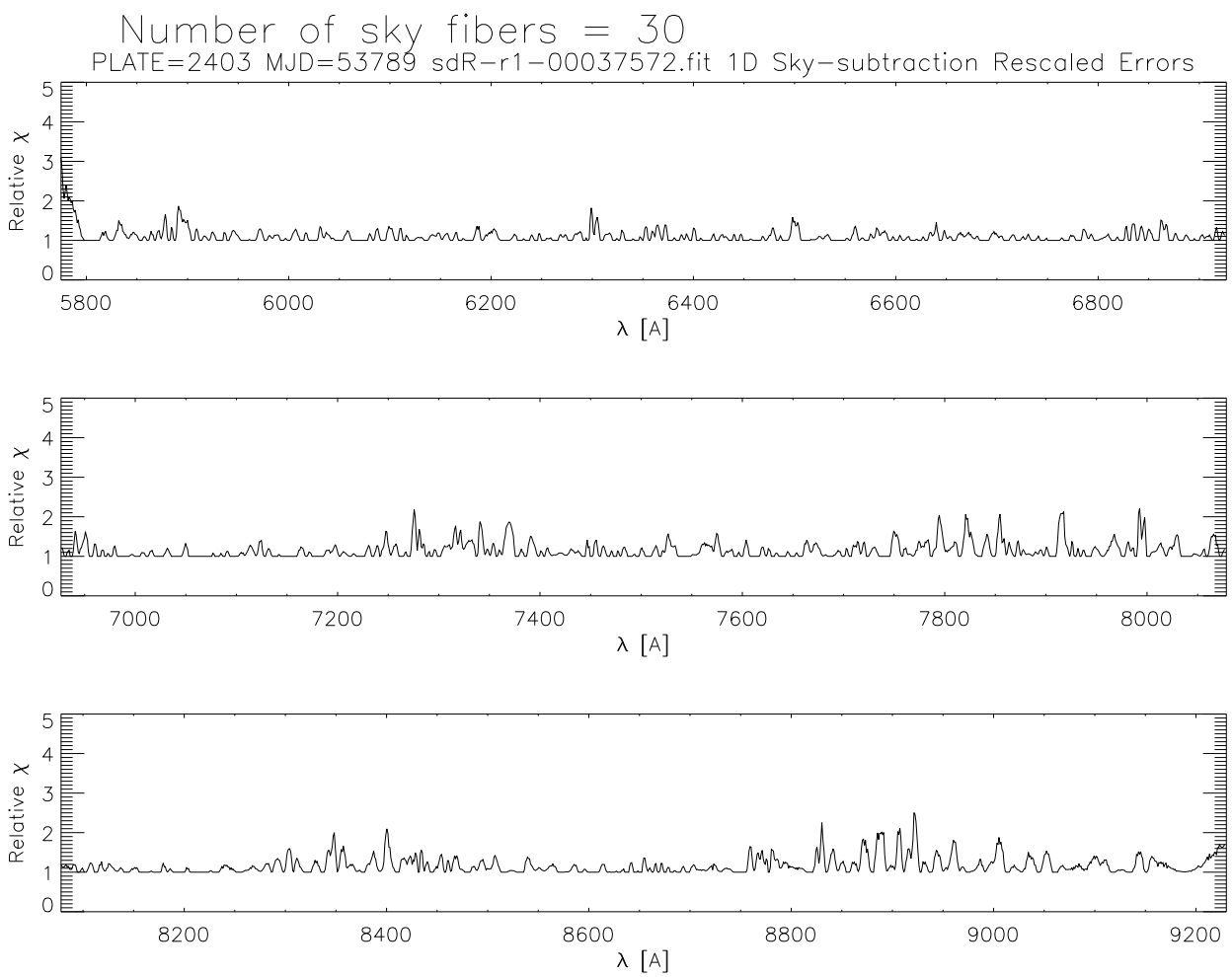

sky shift, pixels
0.18
0.16
0.14
0.12
0.10
0.08
0.06
5000
6000
7000
8000
9000
10000

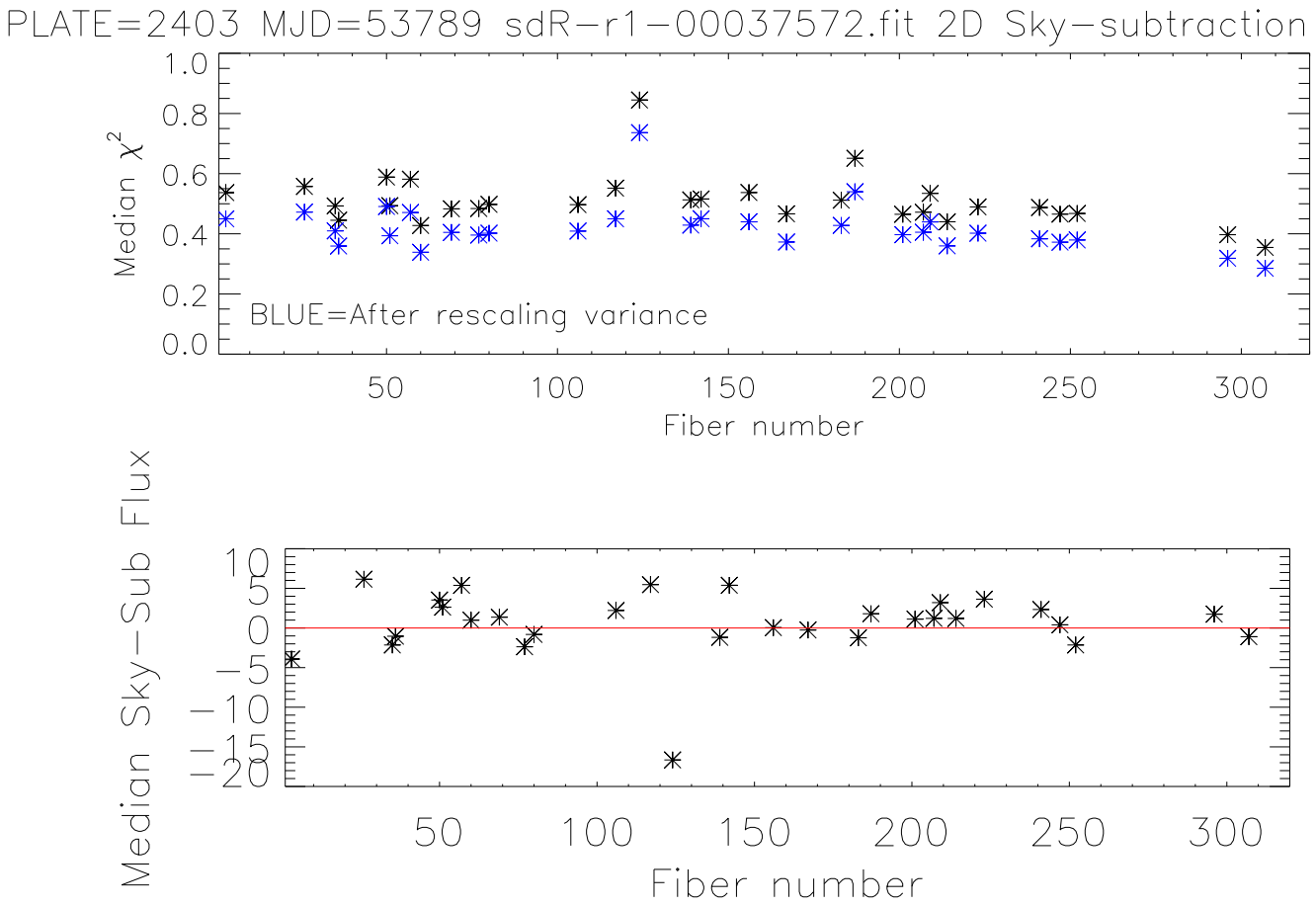

PLATE=2403 MJD=53789 Smooth superflat for sdR-r1-00037572.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

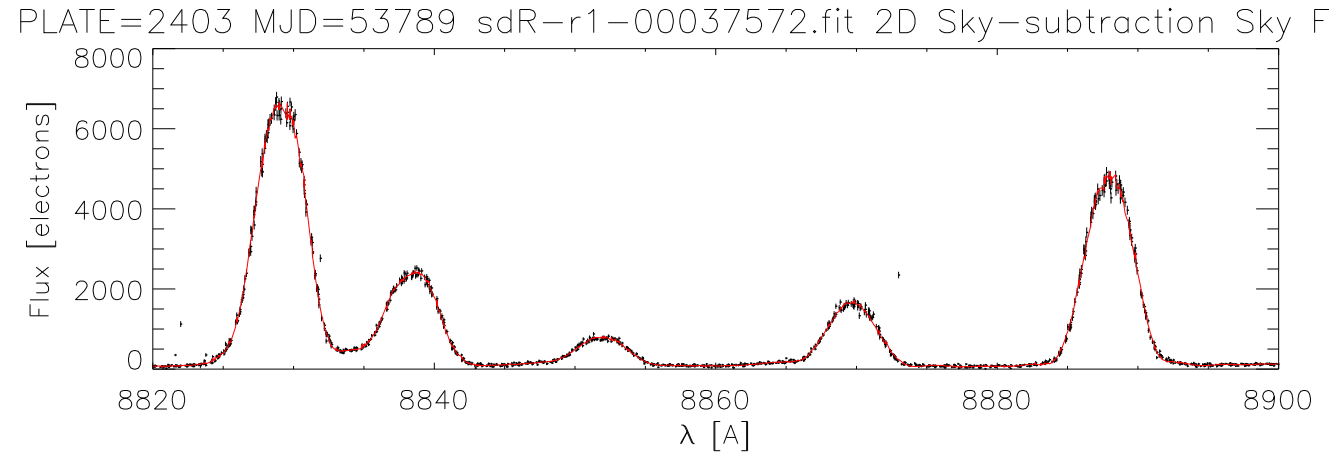

PLATE=2403 MJD=53789 sdR-r1-00037572.fit 1D Sky-subtraction Sky Fibers
Median χ^2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
-20
50
100
150
200
250
300
Fiber number

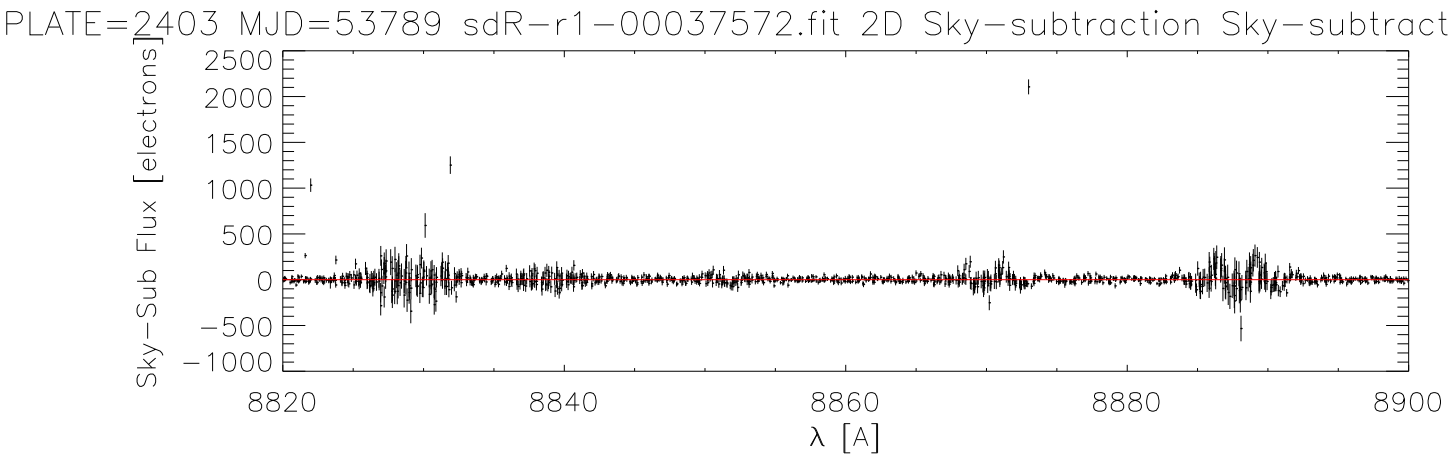

PLATE=2403 MJD=53789 sdR-r1-00037572.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

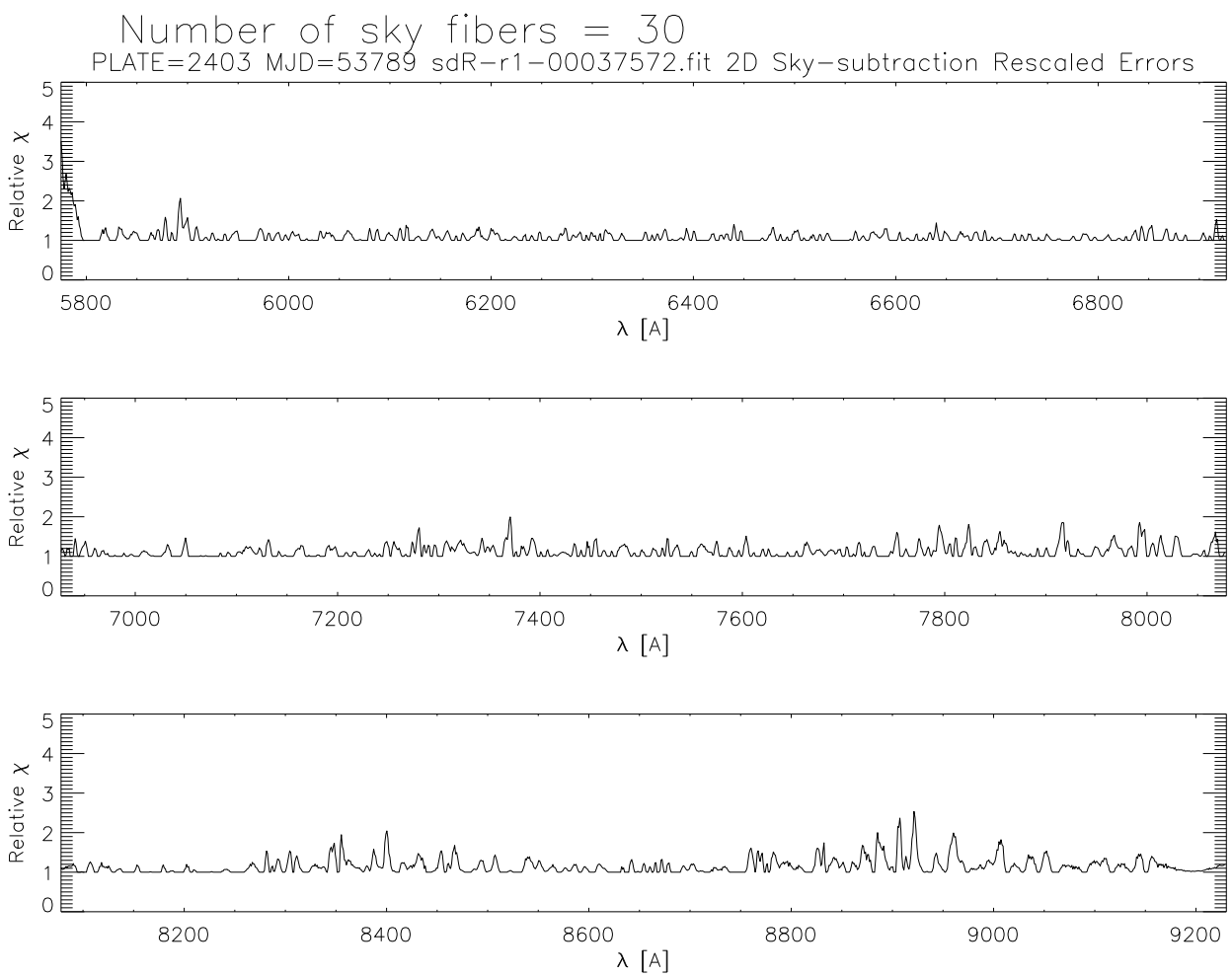

PLATE=2403 MJD=53789 sdR-r1-00037572.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2500
2000
1500
1000
500
0
-500
-1000
8820
8840
8860
8880
8900
λ [A]

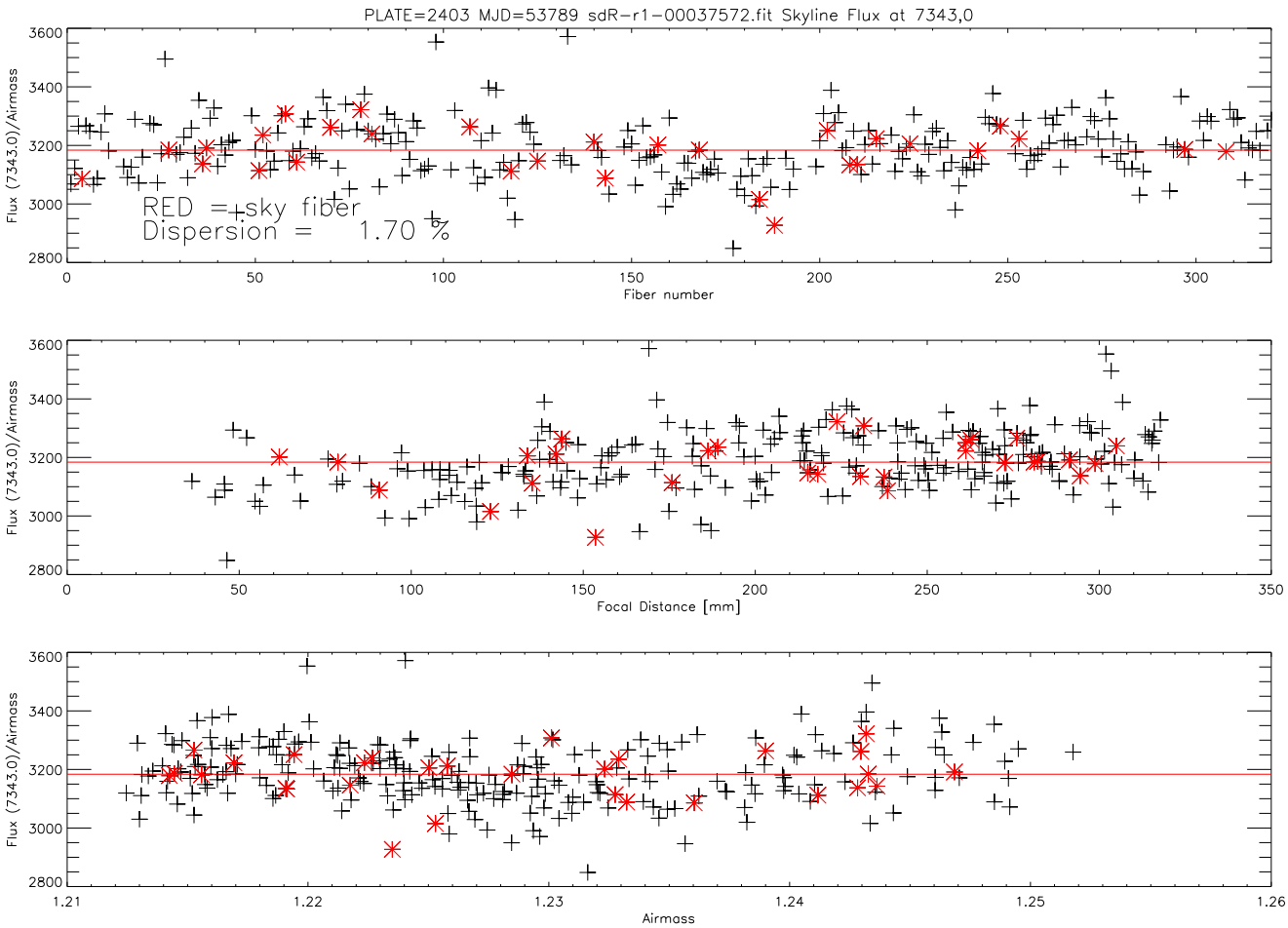

Number of sky fibers = 30
PLATE=2403 MJD=53789 sdR-r1-00037572.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

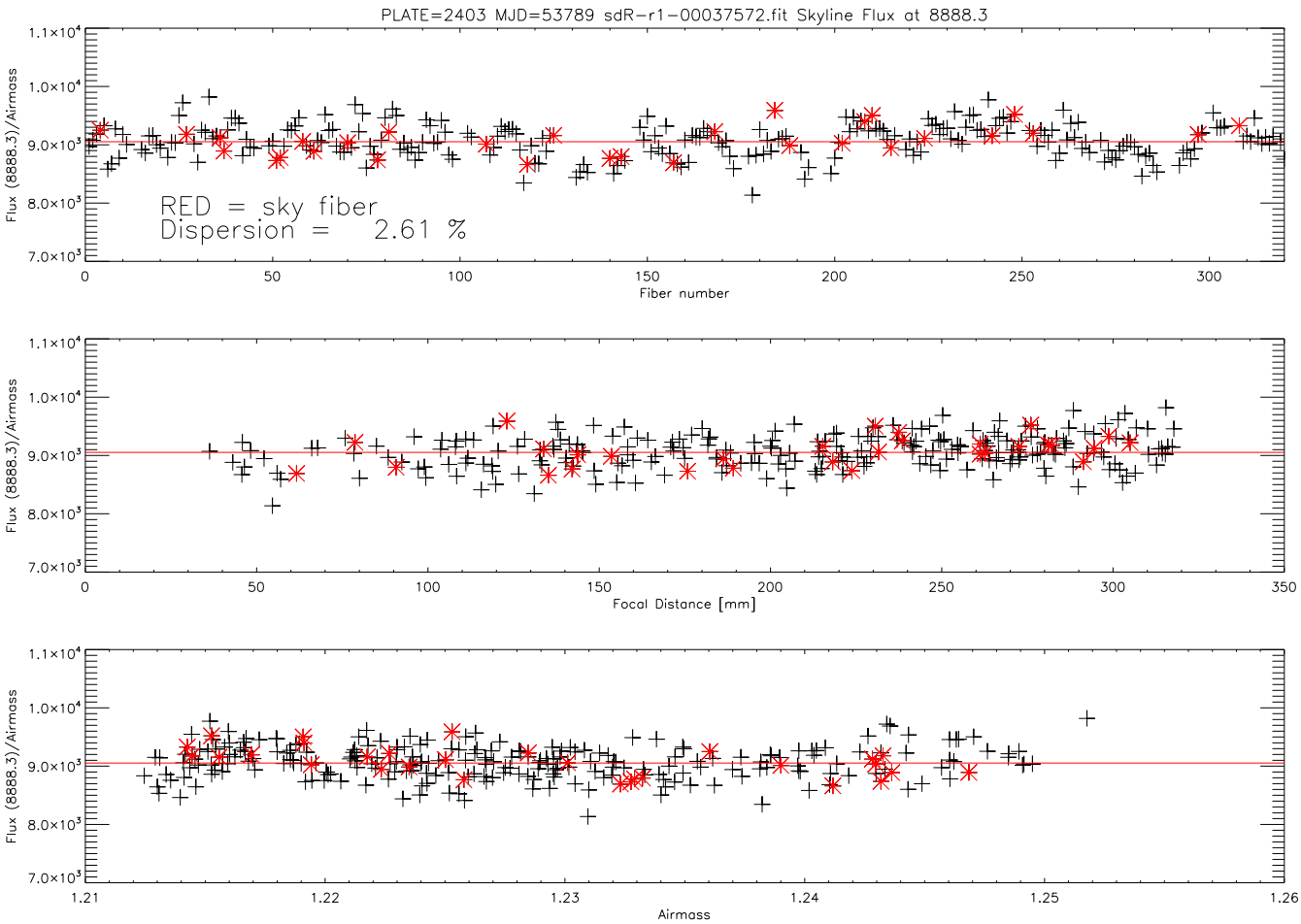

PLATE=2403 MJD=53789 sdR-r1-00037572.fit 2D Sky-subtraction Sky Fibers
Median χ^2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
-20
50
100
150
200
250
300
Fiber number

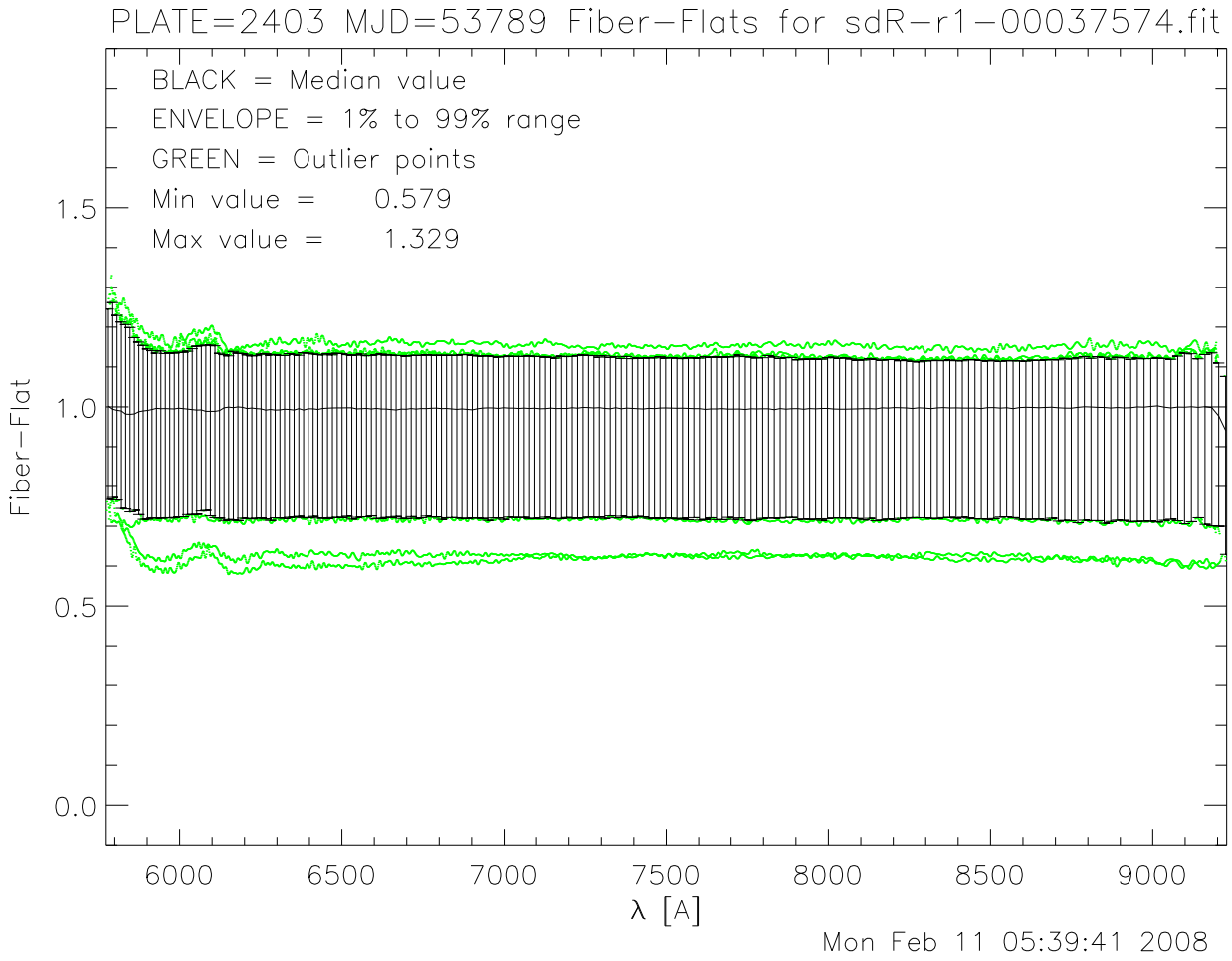

PLATE=2403 MJD=53789 sdR-r1-00037572.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

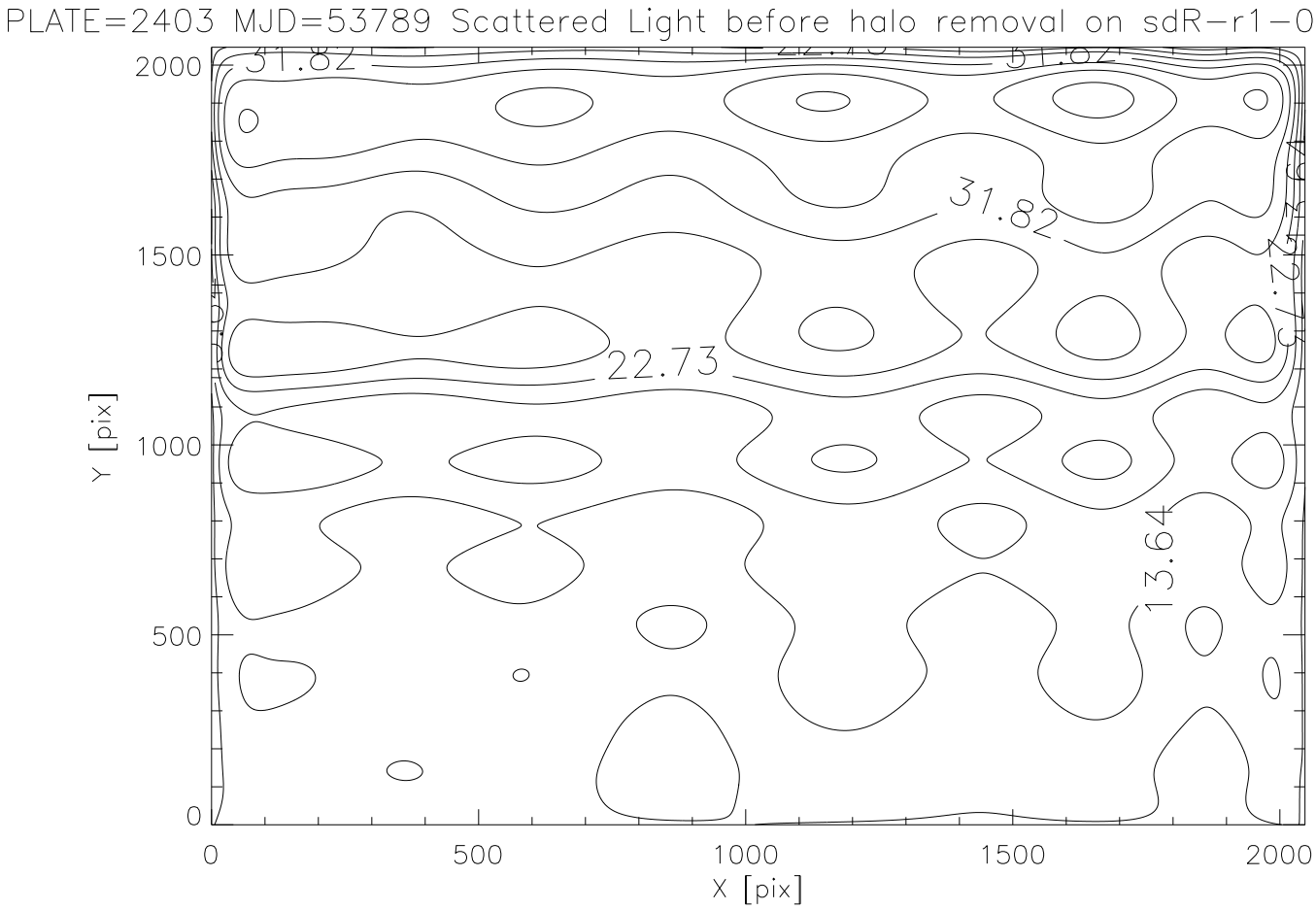

PLATE=2403 MJD=53789 sdR-r1-00037572.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2500
2000
1500
1000
500
0
-500
-1000
8820
8840
8860
8880
8900
λ [A]

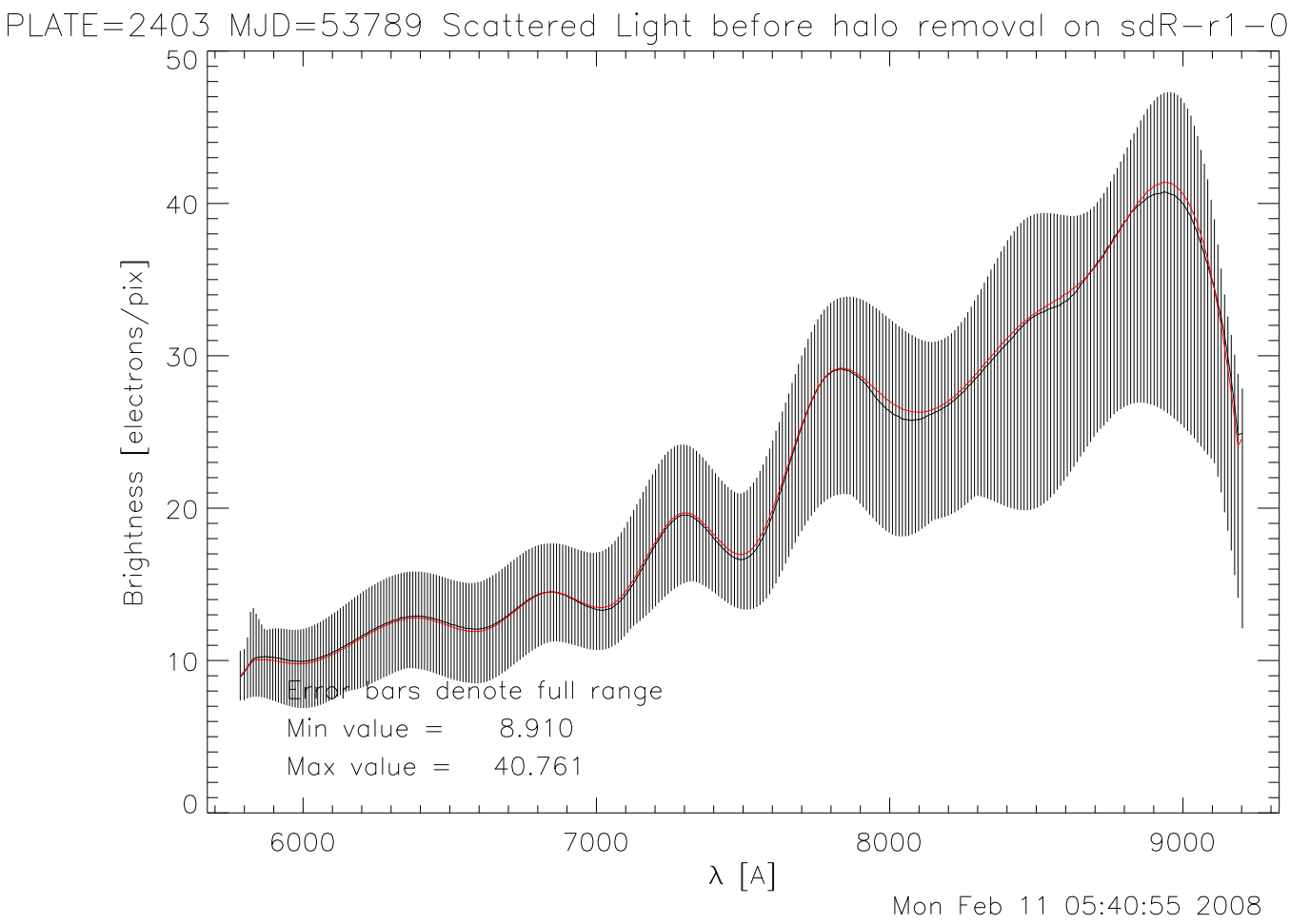

Number of sky fibers = 30
PLATE=2403 MJD=53789 sdR-r1-00037572.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

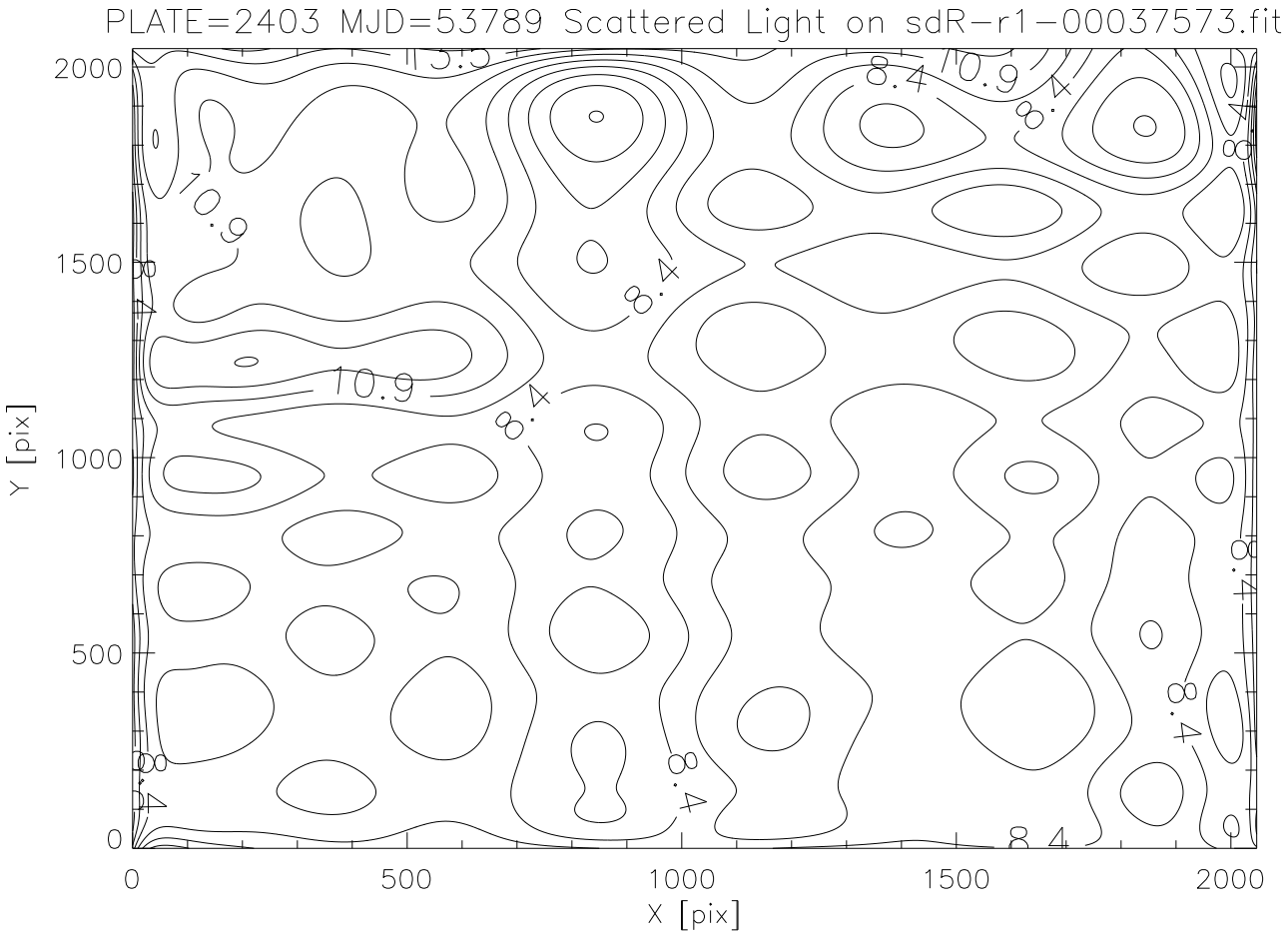

PLATE=2403 MJD=53789 sdR-r1-00037572.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.70 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

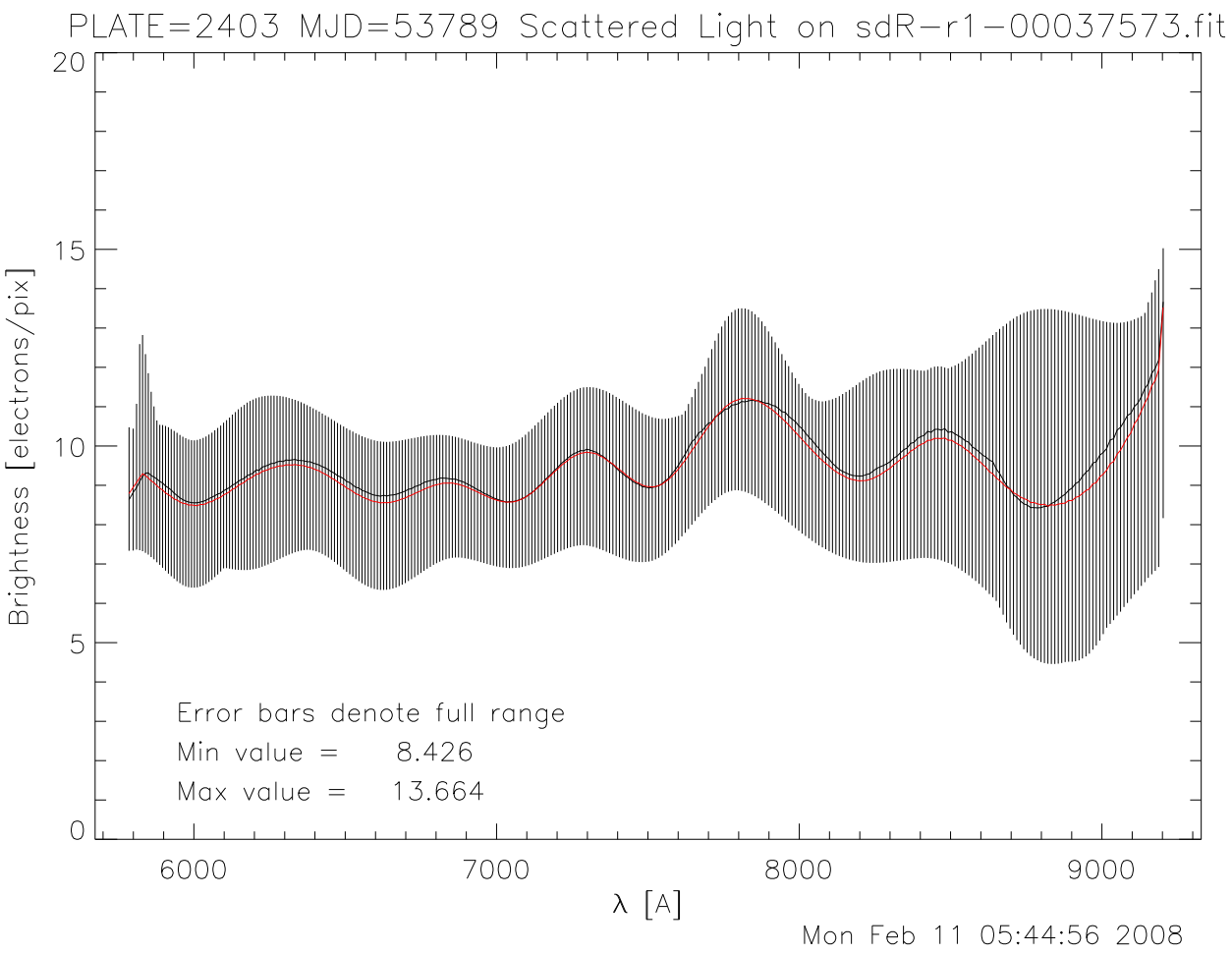

PLATE=2403 MJD=53789 sdR-r1-00037572.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.61 %
Fiber number
Focal Distance [mm]
Airmass

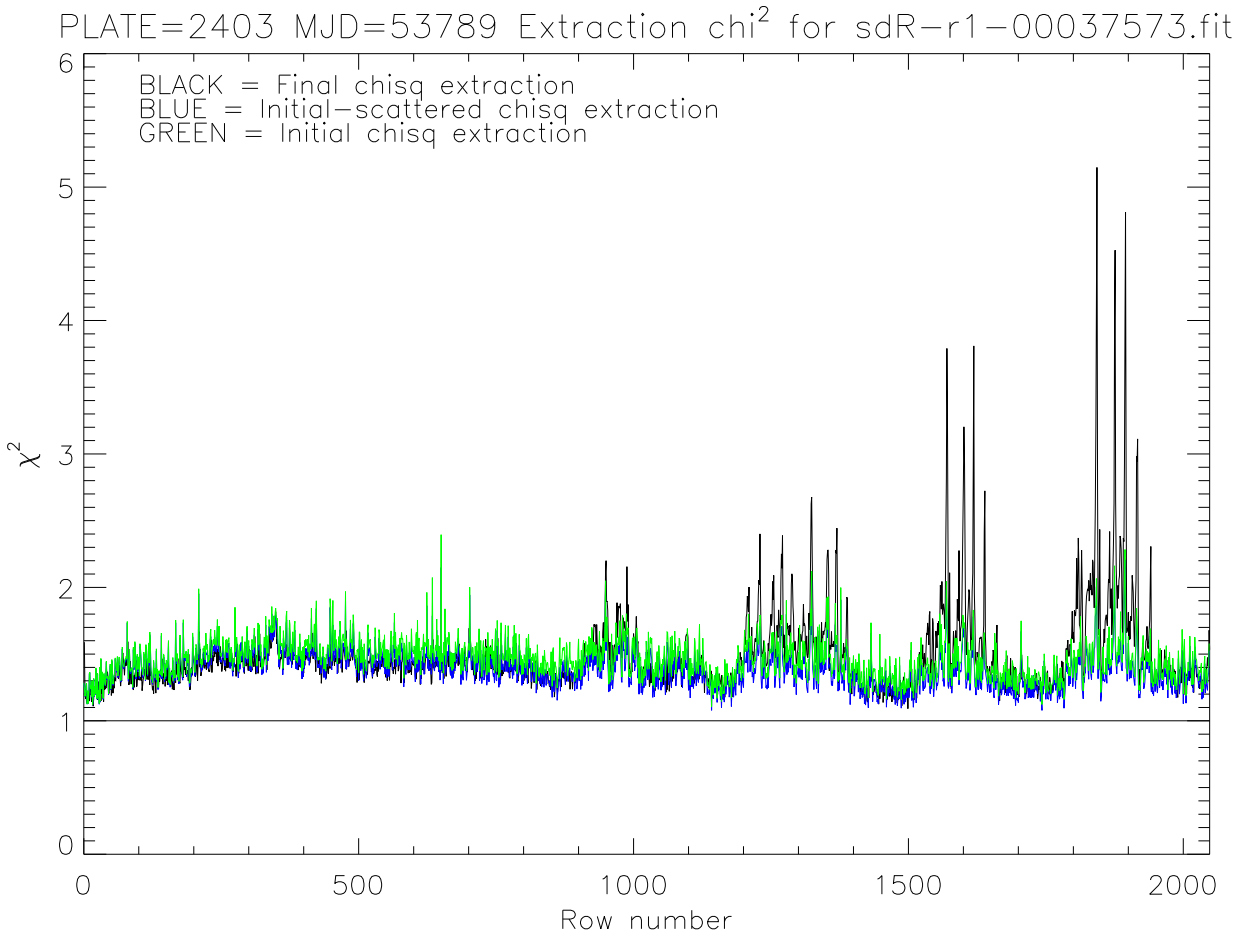

PLATE=2403 MJD=53789 Fiber−Flats for sdR−r1−00037574.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.579
Max value = 1.329
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 11 05:39:41 2008

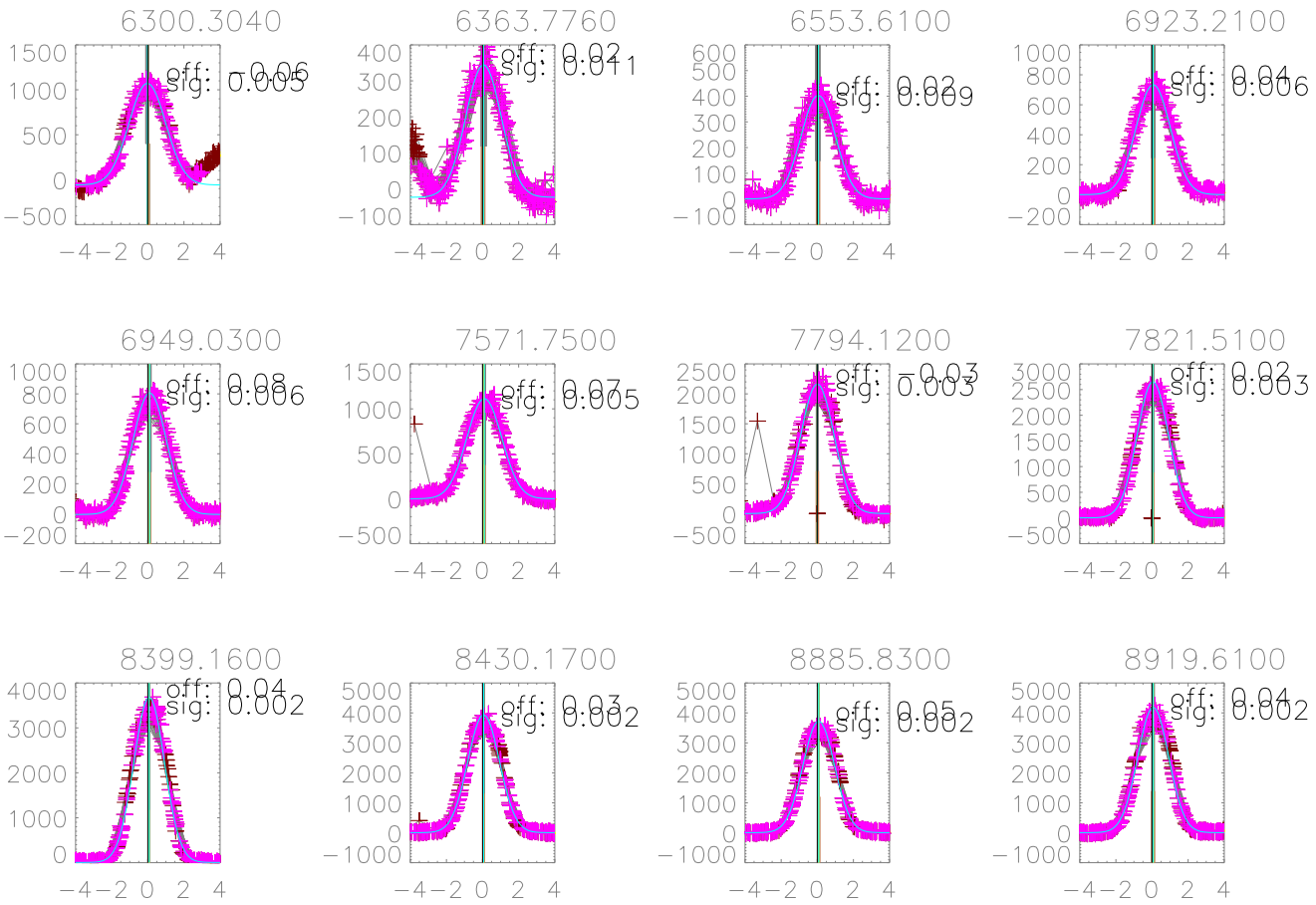

PLATE=2403 MJD=53789 Scattered Light before halo removal on sdR-r1-00037573.fi
31.82
22.73
13.64
Y [pix]
X [pix]
0
500
1000
1500
2000

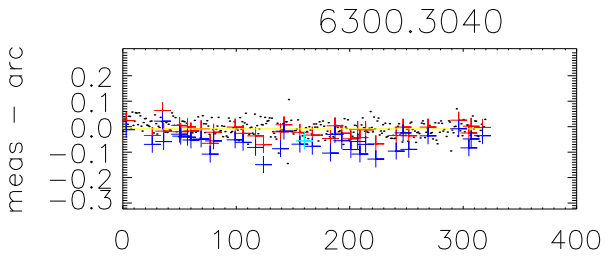

PLATE=2403 MJD=53789 Scattered Light before halo removal on sdR-r1-00037573.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 8.910
Max value = 40.761
Mon Feb 11 05:40:55 2008

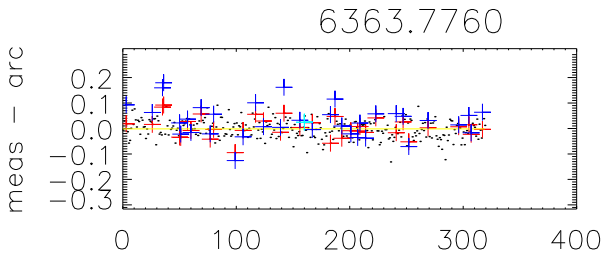

PLATE=2403 MJD=53789 Scattered Light on sdR-r1-00037573.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
10.9
8.4

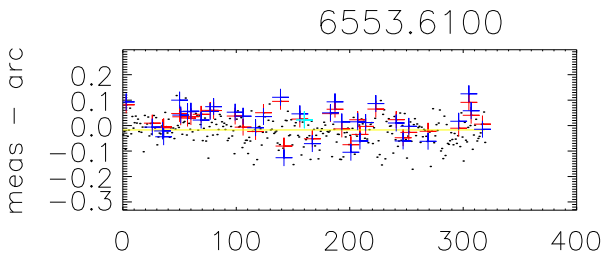

PLATE=2403 MJD=53789 Scattered Light on sdR-r1-00037573.fit
Brightness [electrons/pix]
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 8.426
Max value = 13.664
Mon Feb 11 05:44:56 2008

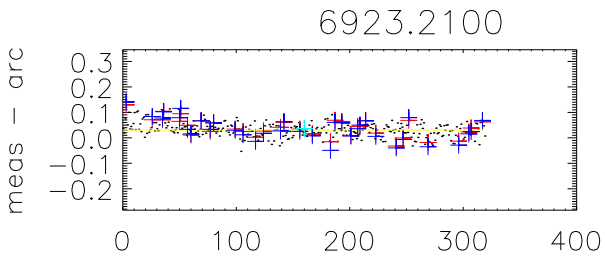

PLATE=2403 MJD=53789 Extraction chi^2 for sdR−r1−00037573.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

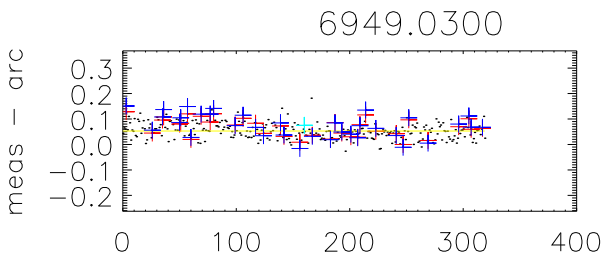

6300.3040
off: −0.06
sig: 0.005
6363.7760
off: 0.02
sig: 0.011
6553.6100
off: 0.02
sig: 0.009
6923.2100
off: 0.04
sig: 0.006
6949.0300
off: 0.08
sig: 0.006
7571.7500
off: 0.07
sig: 0.005
7794.1200
off: −0.03
sig: 0.003
7821.5100
off: 0.02
sig: 0.003
8399.1600
off: 0.04
sig: 0.002
8430.1700
off: 0.03
sig: 0.002
8885.8300
off: 0.05
sig: 0.002
8919.6100
off: 0.04
sig: 0.002

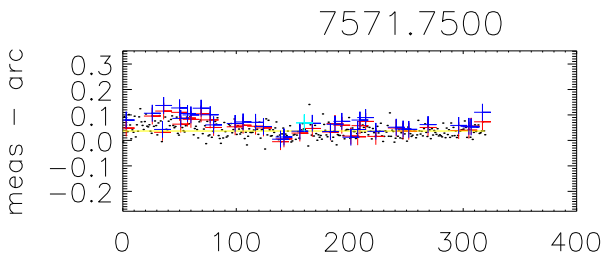

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

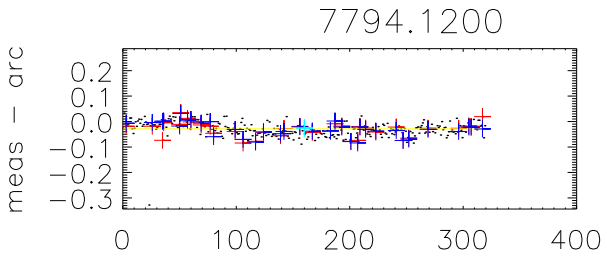

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

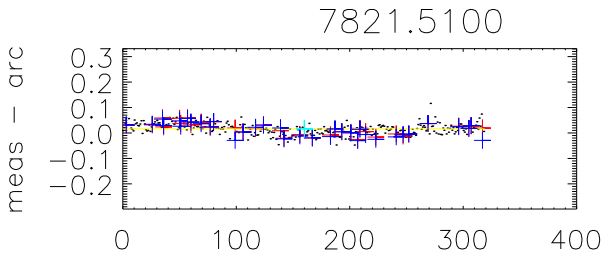

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

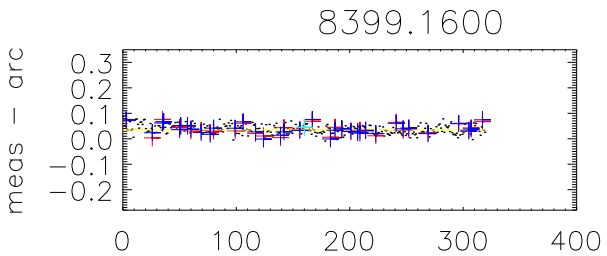

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

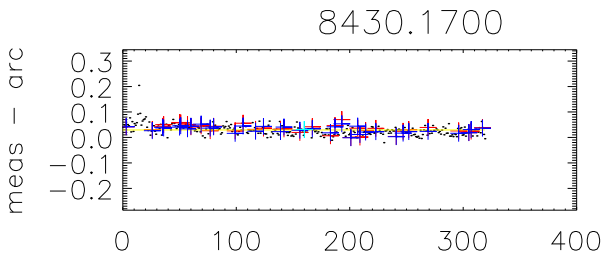

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

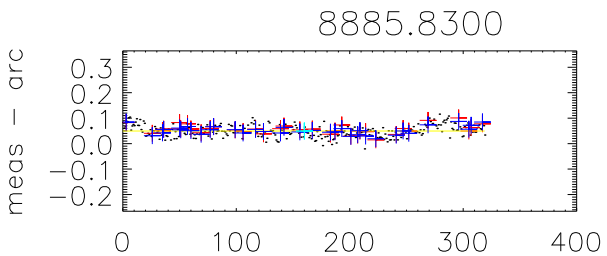

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

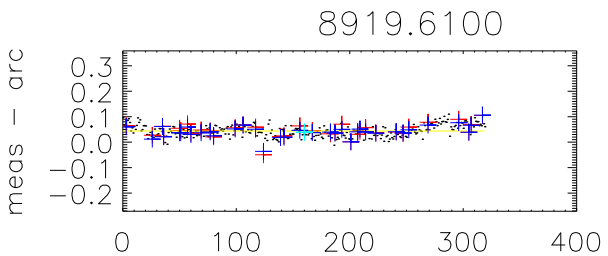

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

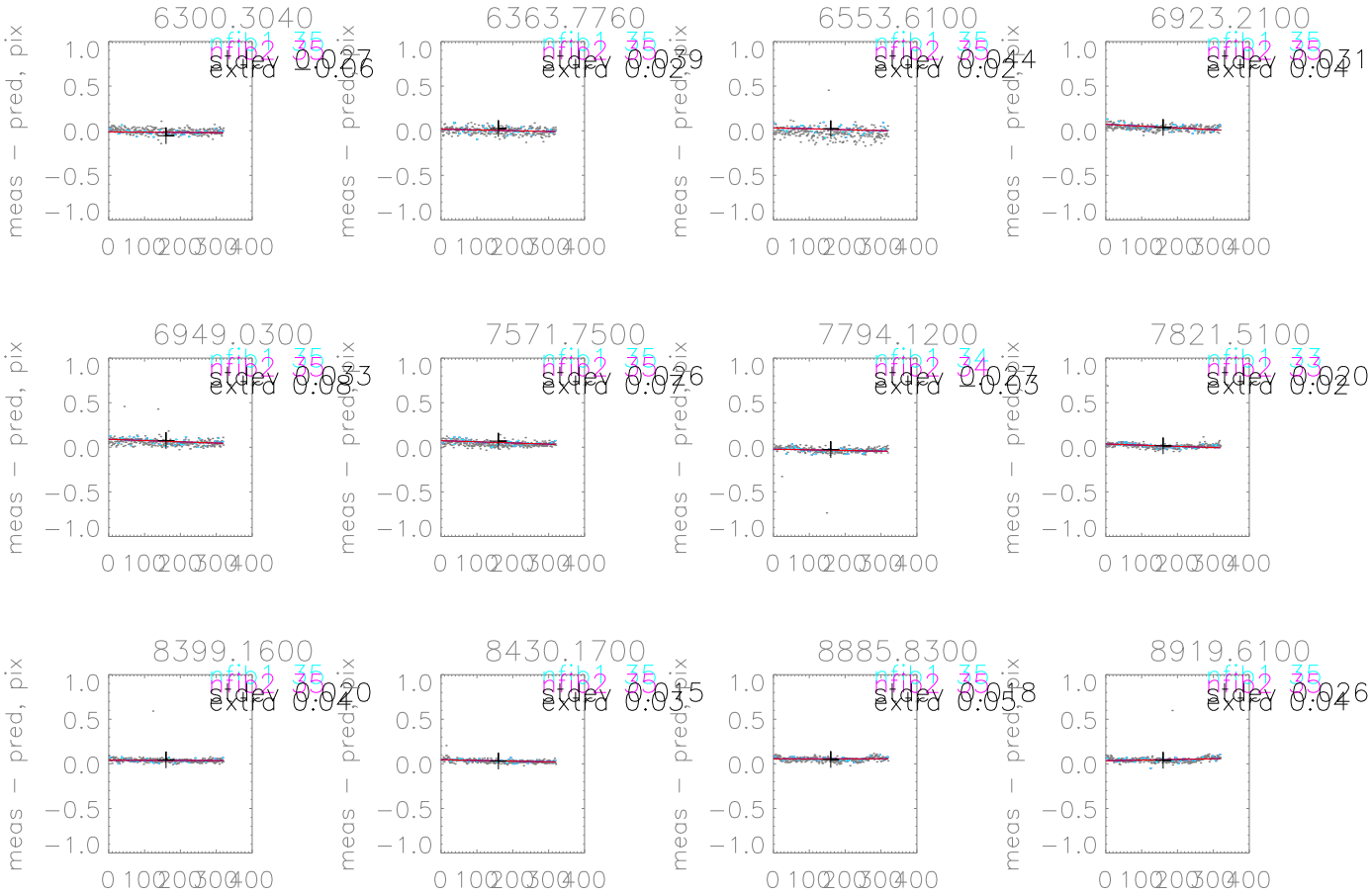

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

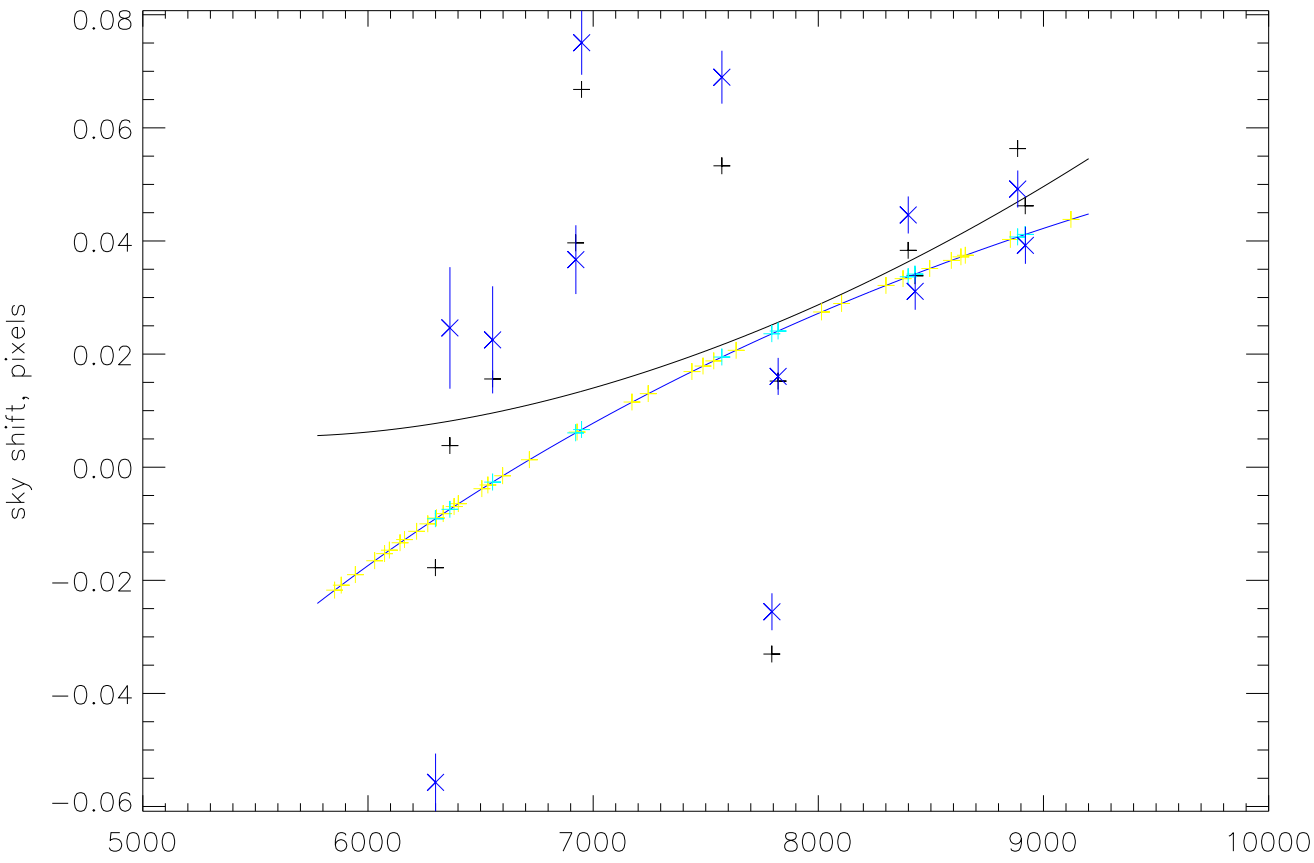

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

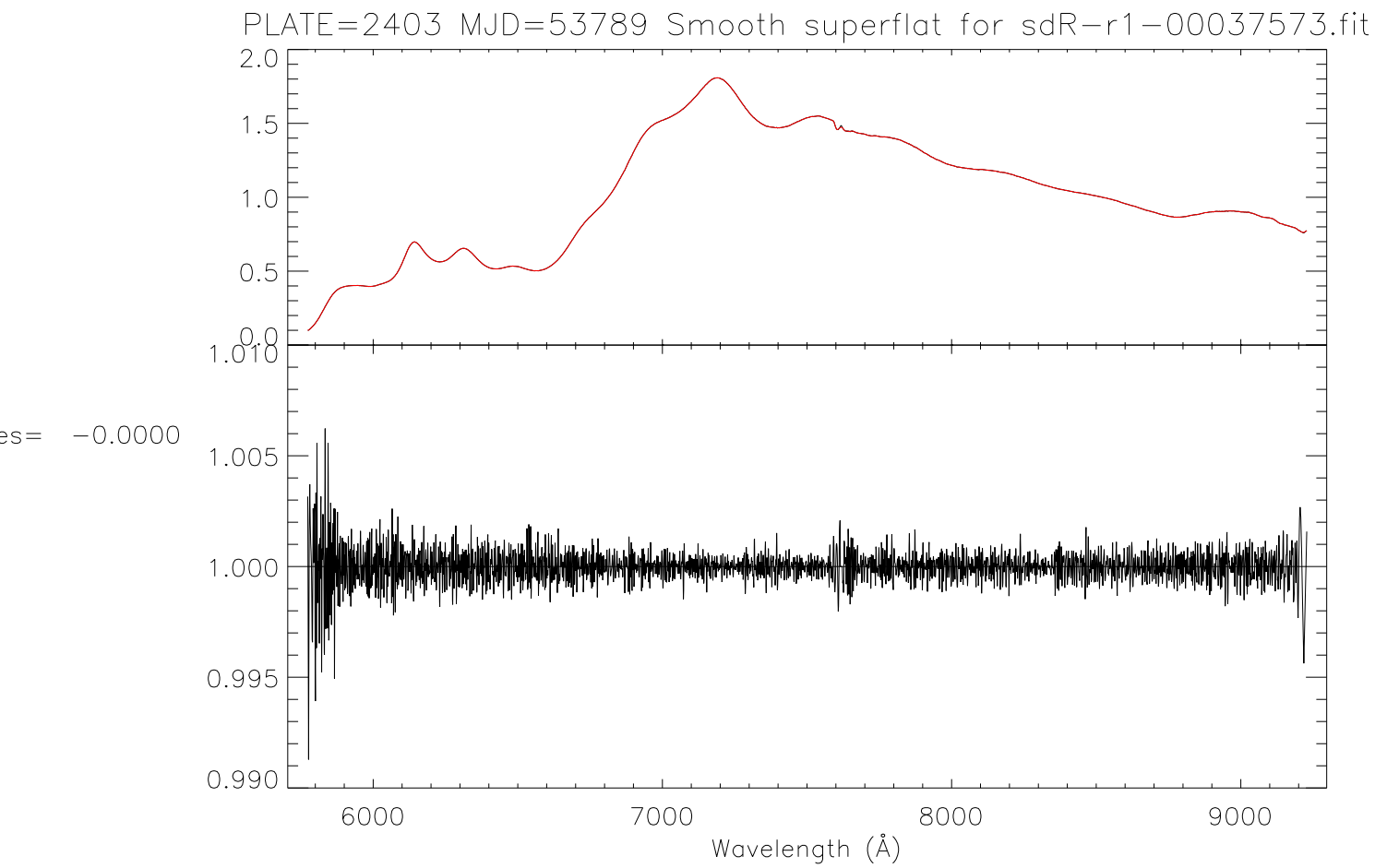

8430.1700
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

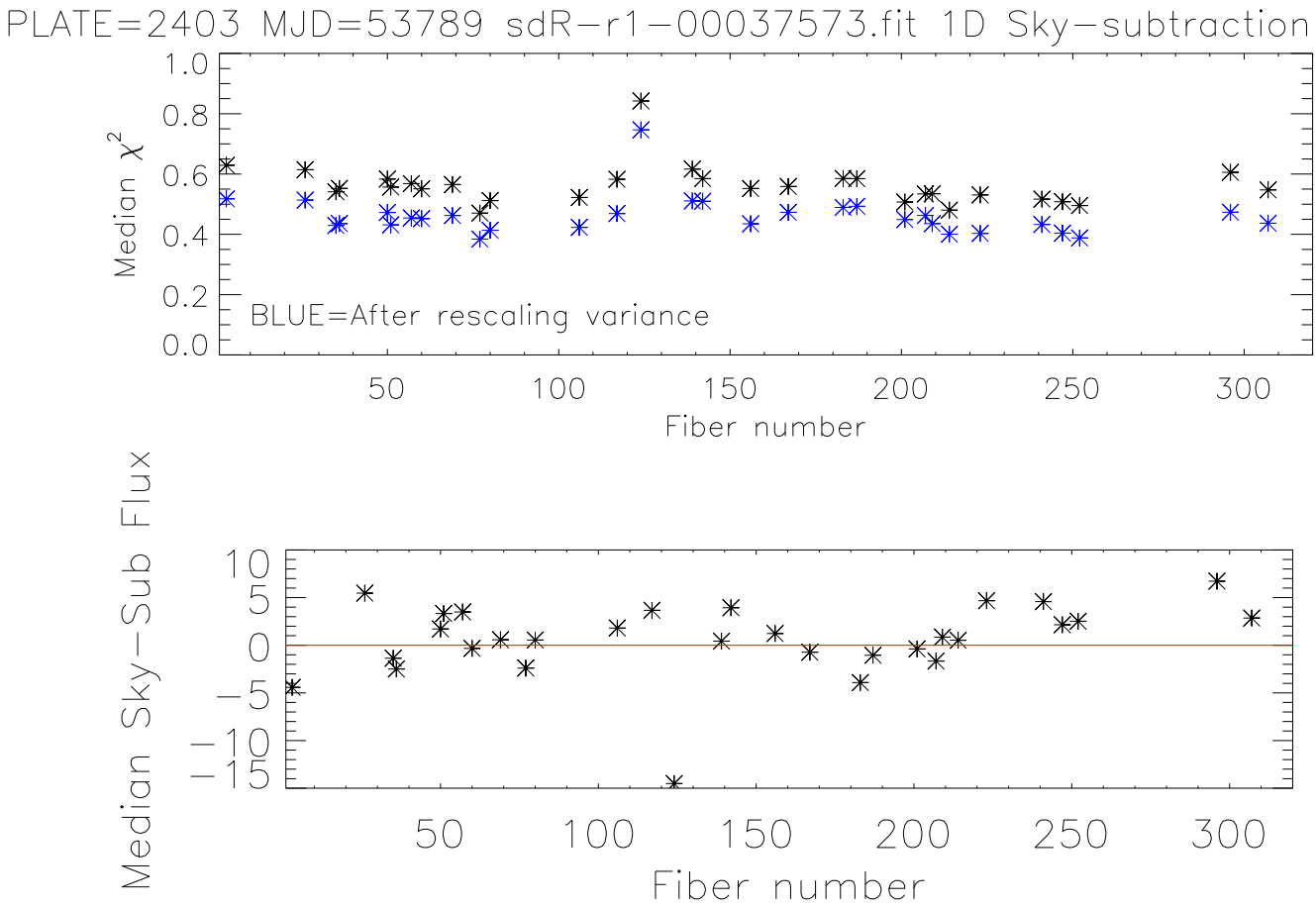

8885.8300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

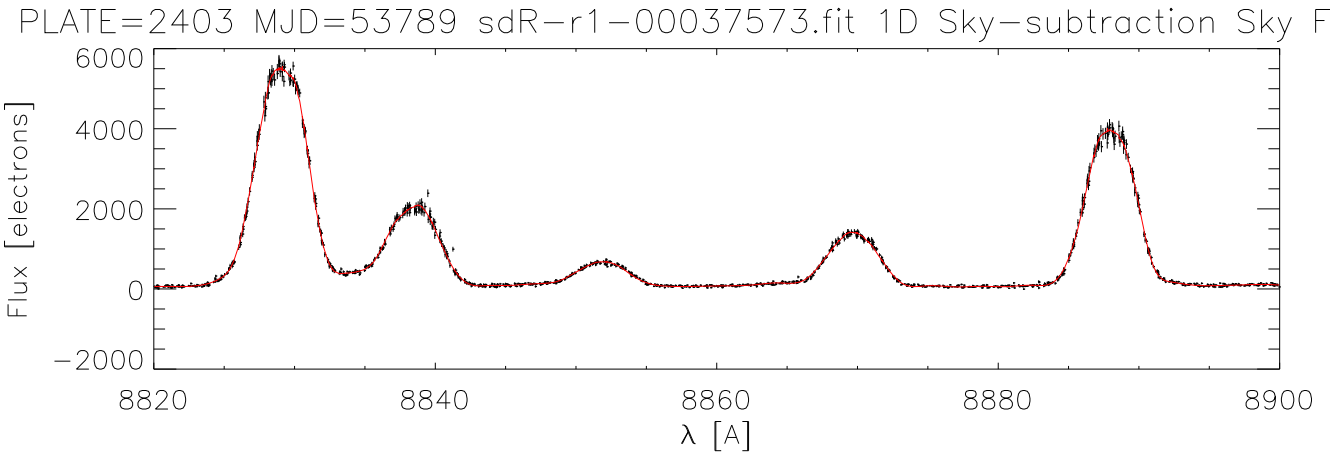

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

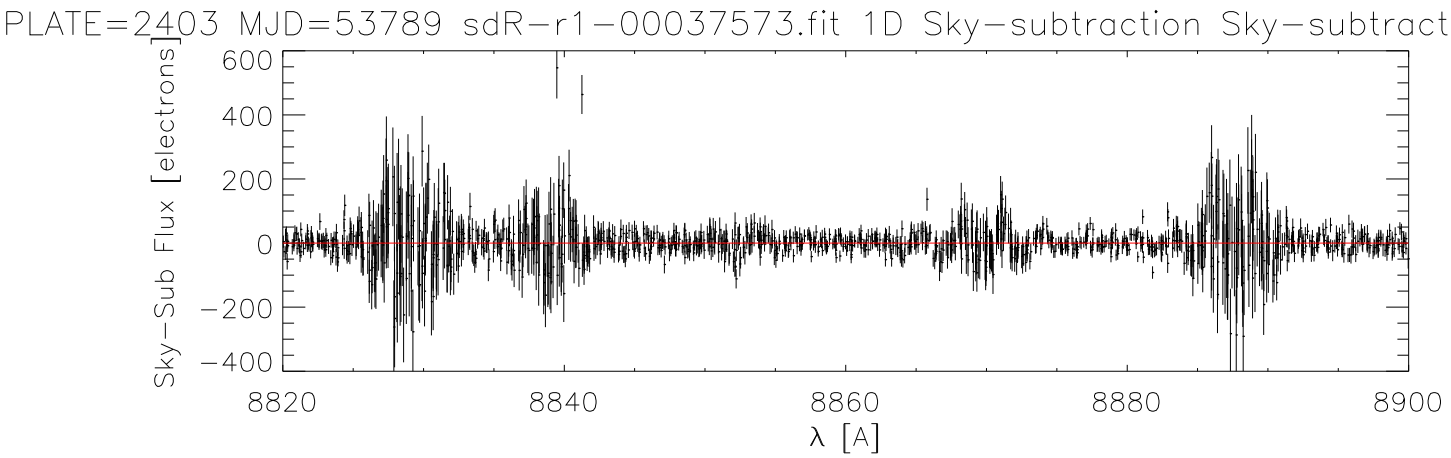

6300.3040
stdev 0.027
extra −0.06
6363.7760
stdev 0.029
extra 0.02
6553.6100
stdev 0.044
extra 0.02
6923.2100
stdev 0.031
extra 0.04
6949.0300
stdev 0.033
extra 0.08
7571.7500
stdev 0.026
extra 0.07
7794.1200
stdev 0.027
extra −0.03
7821.5100
stdev 0.020
extra 0.02
8399.1600
stdev 0.020
extra 0.04
8430.1700
stdev 0.035
extra 0.03
8885.8300
stdev 0.058
extra 0.05
8919.6100
stdev 0.026
extra 0.04
meas − pred, pix
mfib1 35
mfib2 35
mfib1 34
mfib2 34
mfib1 33
mfib2 33

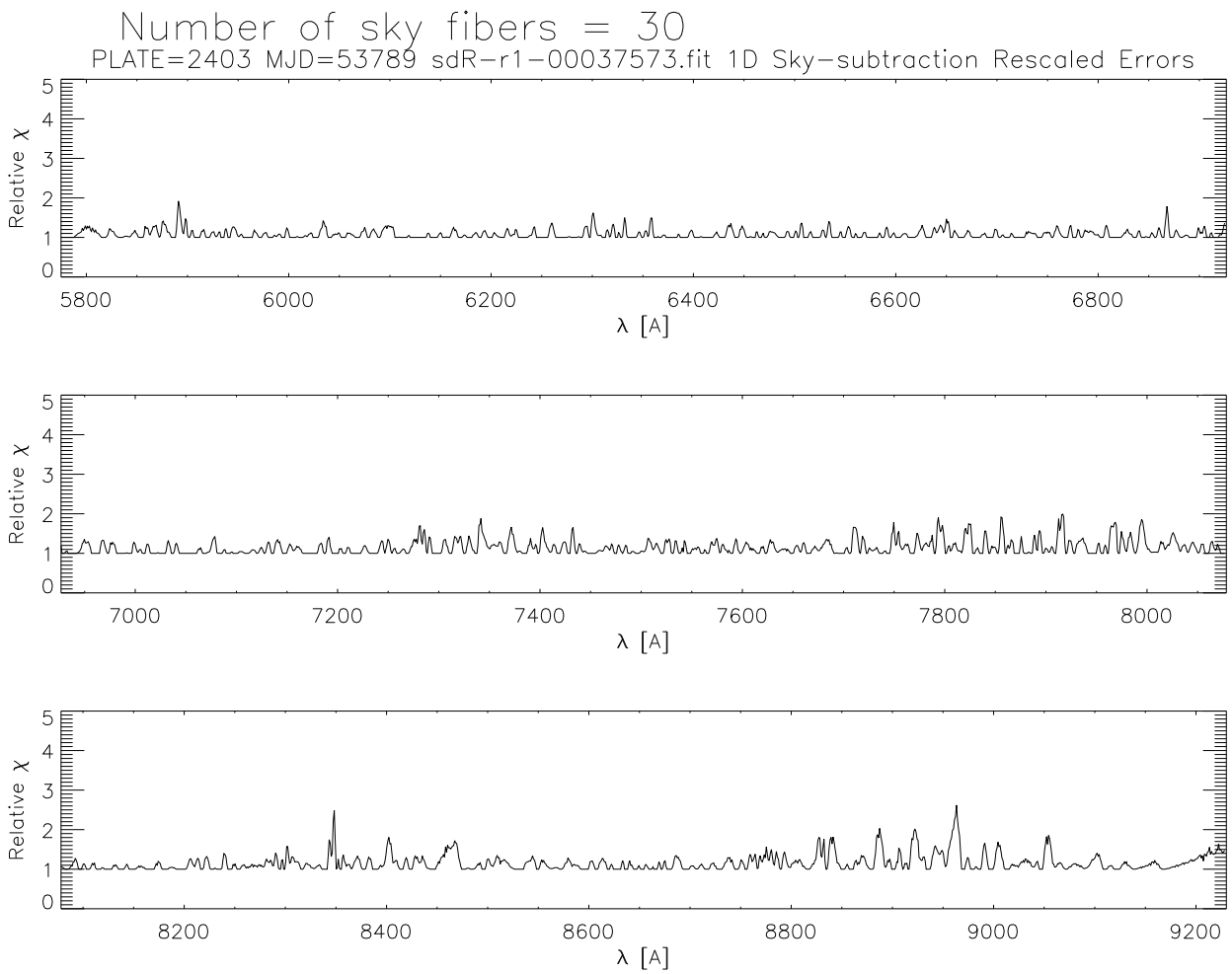

0.08
0.06
0.04
0.02
0.00
−0.02
−0.04
−0.06
sky shift, pixels
5000
6000
7000
8000
9000
10000

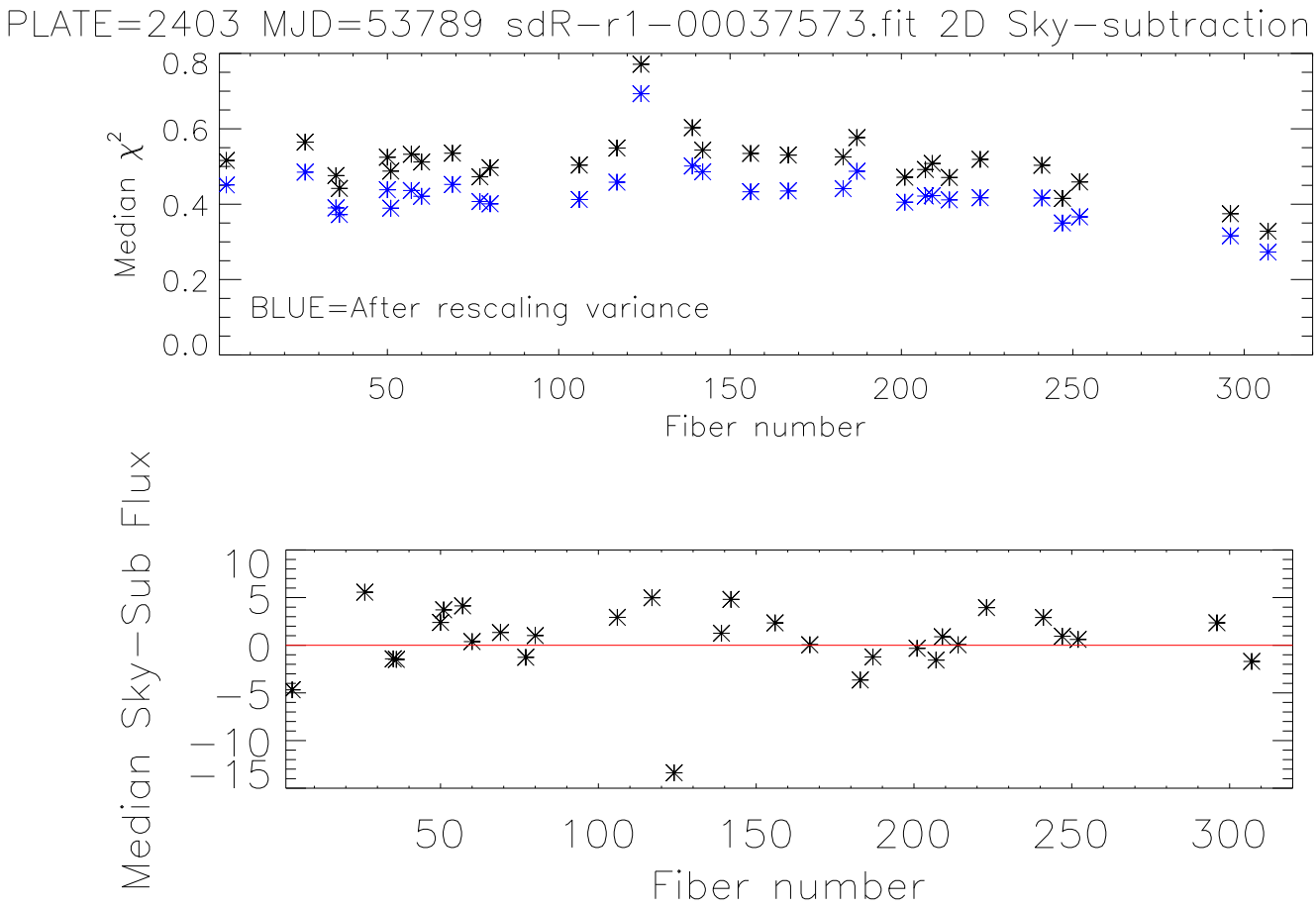

PLATE=2403 MJD=53789 Smooth superflat for sdR-r1-00037573.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

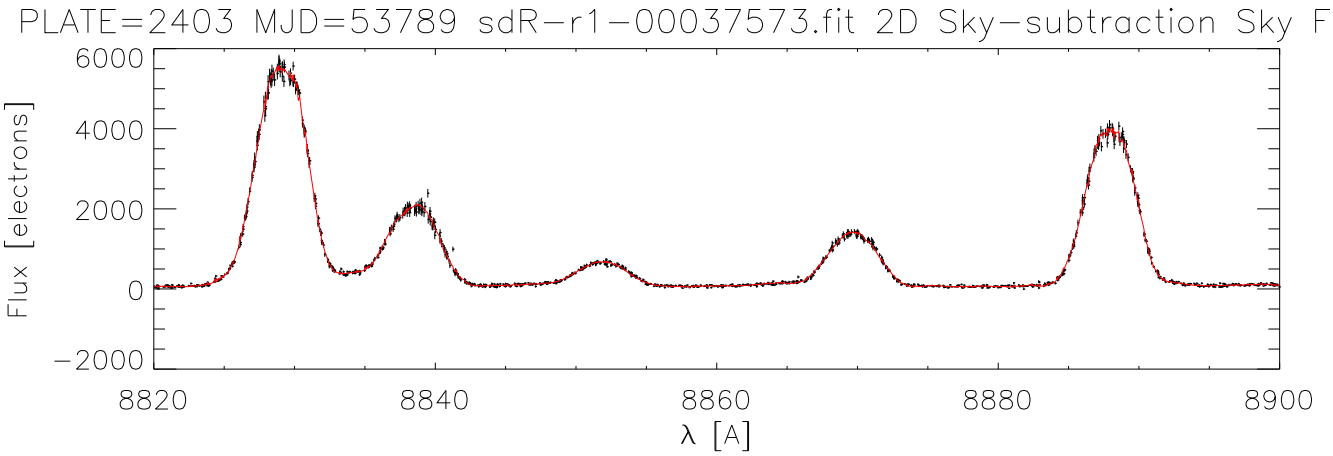

PLATE=2403 MJD=53789 sdR-r1-00037573.fit 1D Sky-subtraction Sky Fibers
Median χ^2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

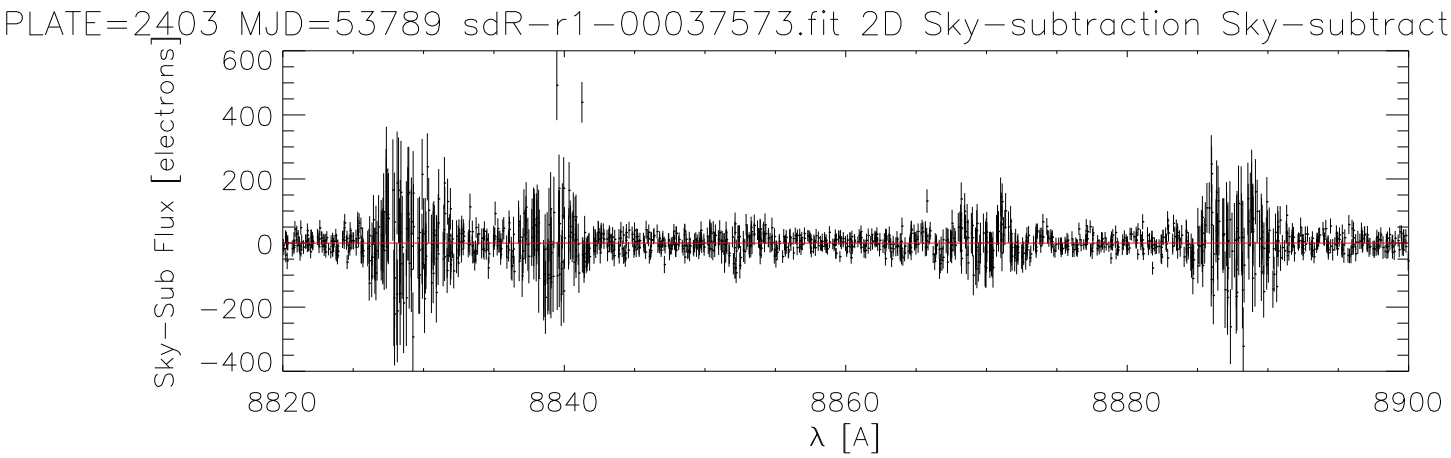

PLATE=2403 MJD=53789 sdR-r1-00037573.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
−2000
8820
8840
8860
8880
8900
λ [A]

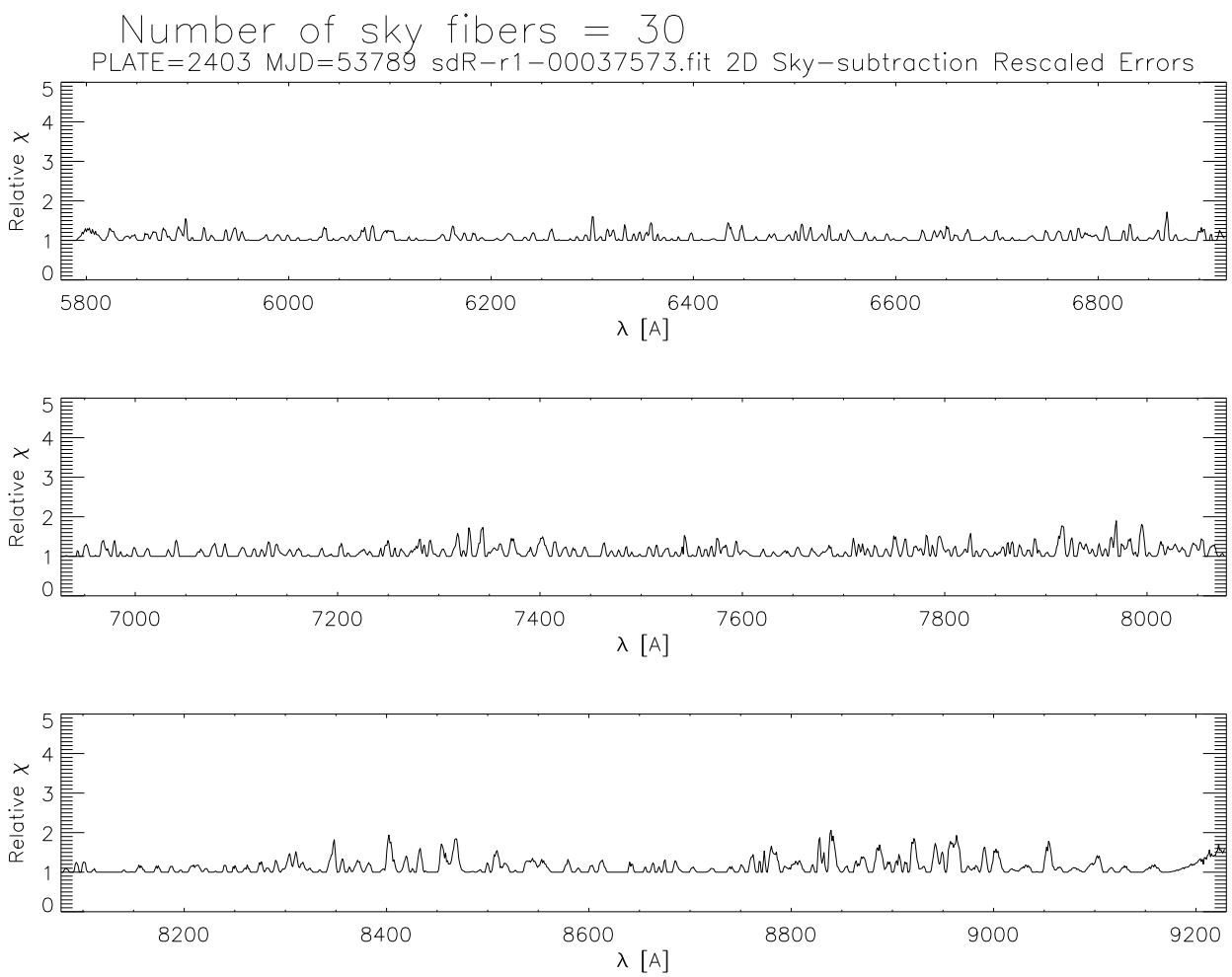

PLATE=2403 MJD=53789 sdR-r1-00037573.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
−200
−400
8820
8840
8860
8880
8900
λ [A]

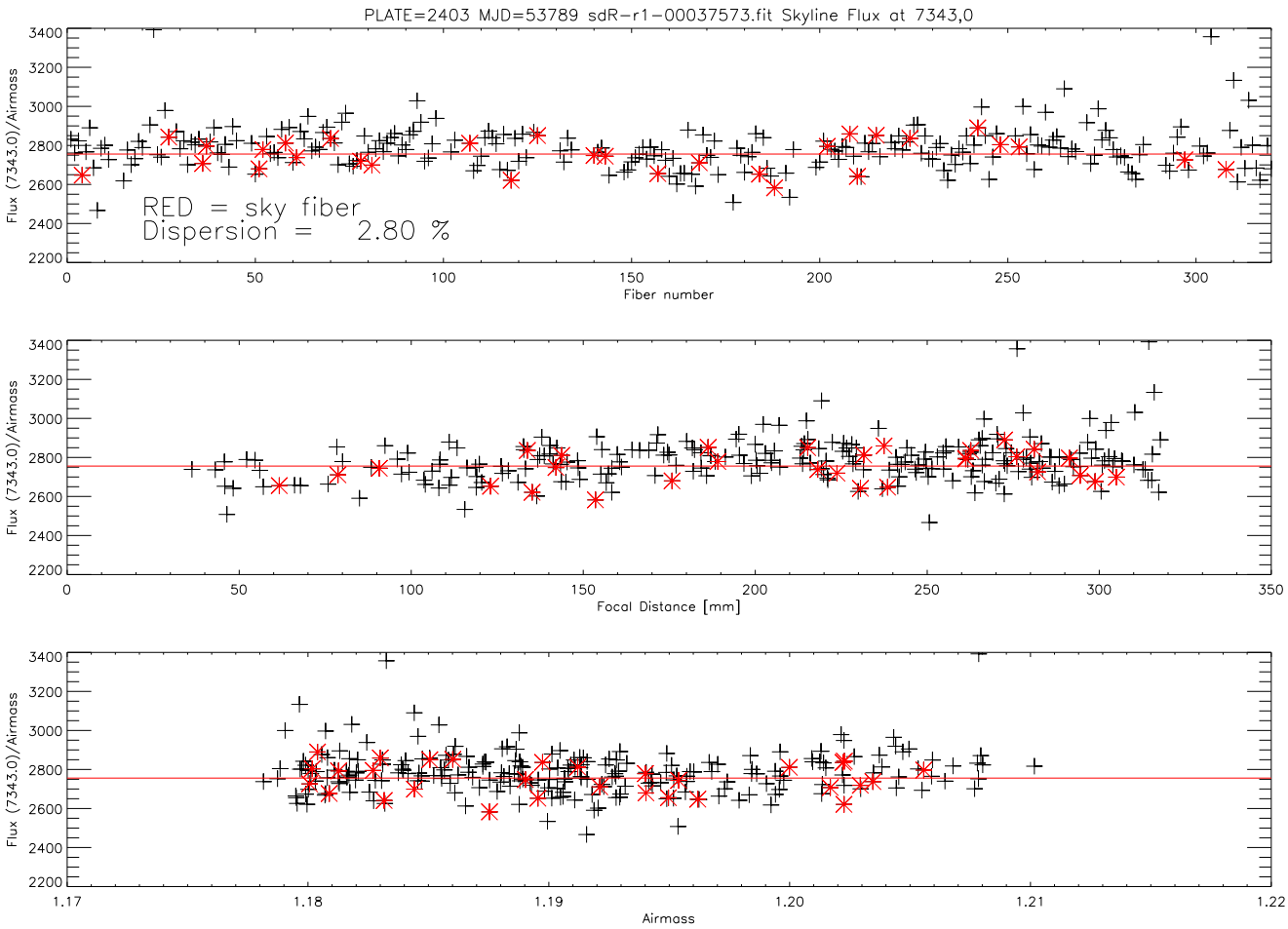

Number of sky fibers = 30
PLATE=2403 MJD=53789 sdR-r1-00037573.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

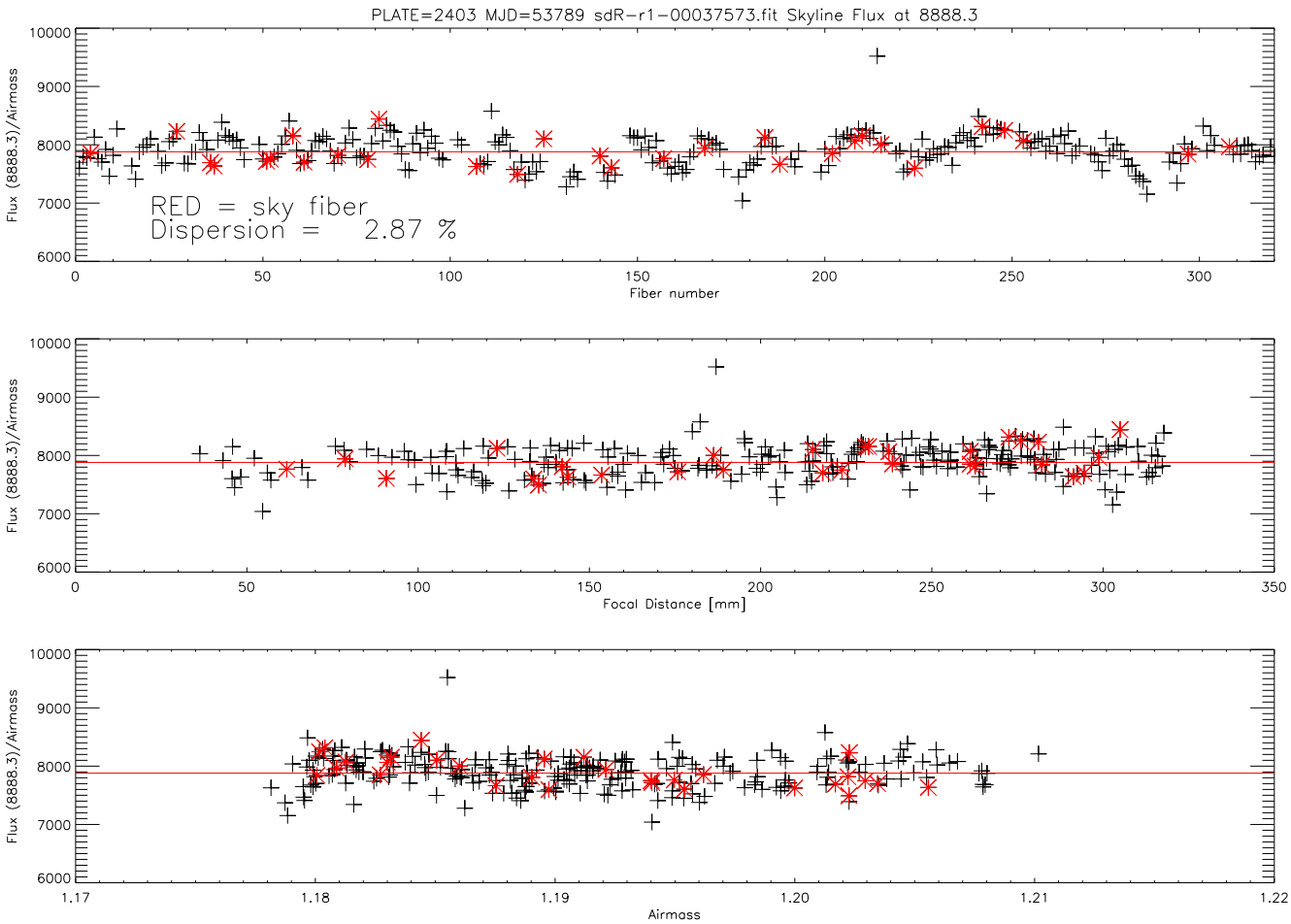

PLATE=2403 MJD=53789 sdR-r1-00037573.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

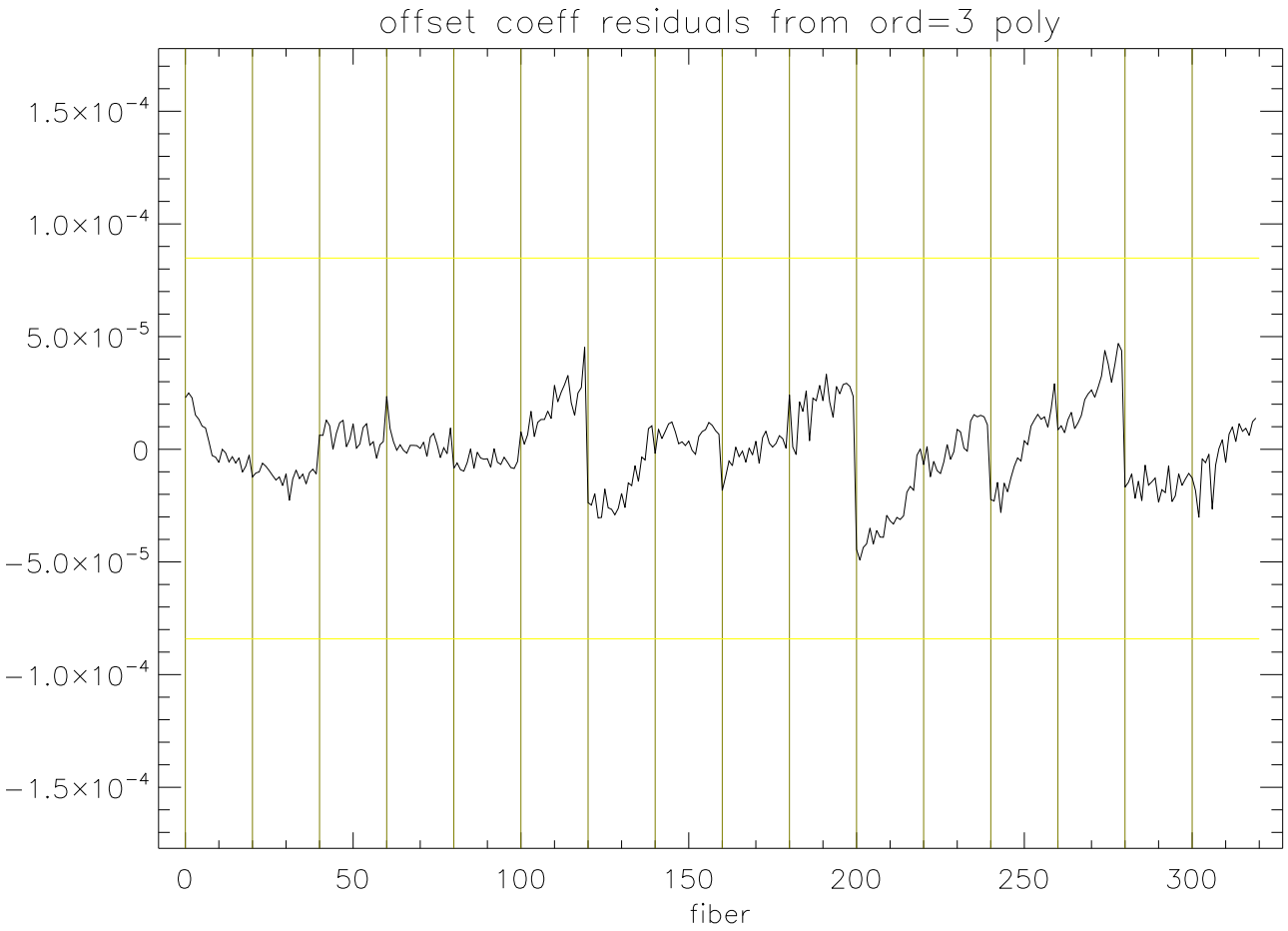

PLATE=2403 MJD=53789 sdR-r1-00037573.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
−2000
8820
8840
8860
8880
8900
λ [A]

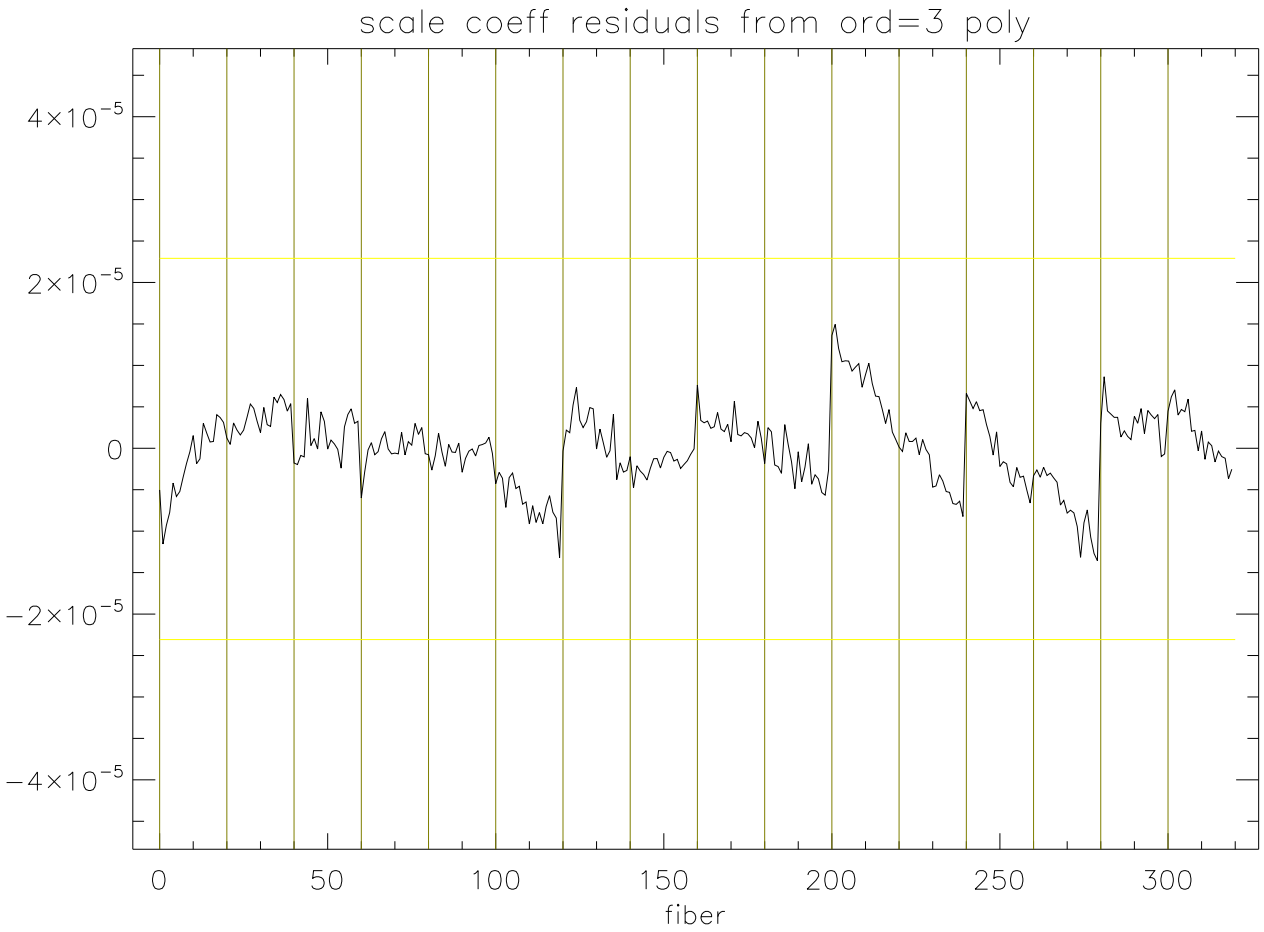

PLATE=2403 MJD=53789 sdR-r1-00037573.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
−200
−400
8820
8840
8860
8880
8900
λ [A]

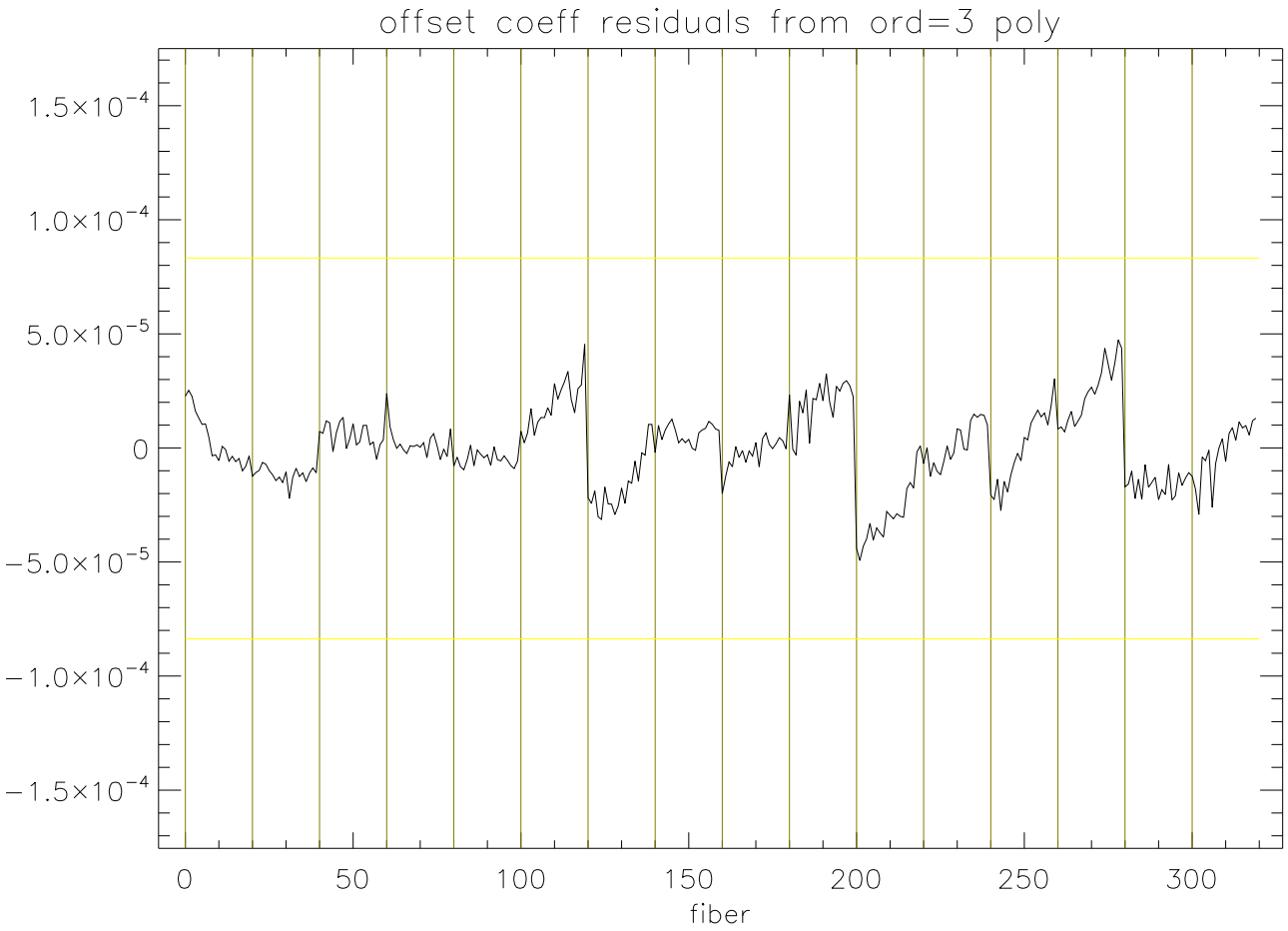

Number of sky fibers = 30
PLATE=2403 MJD=53789 sdR-r1-00037573.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

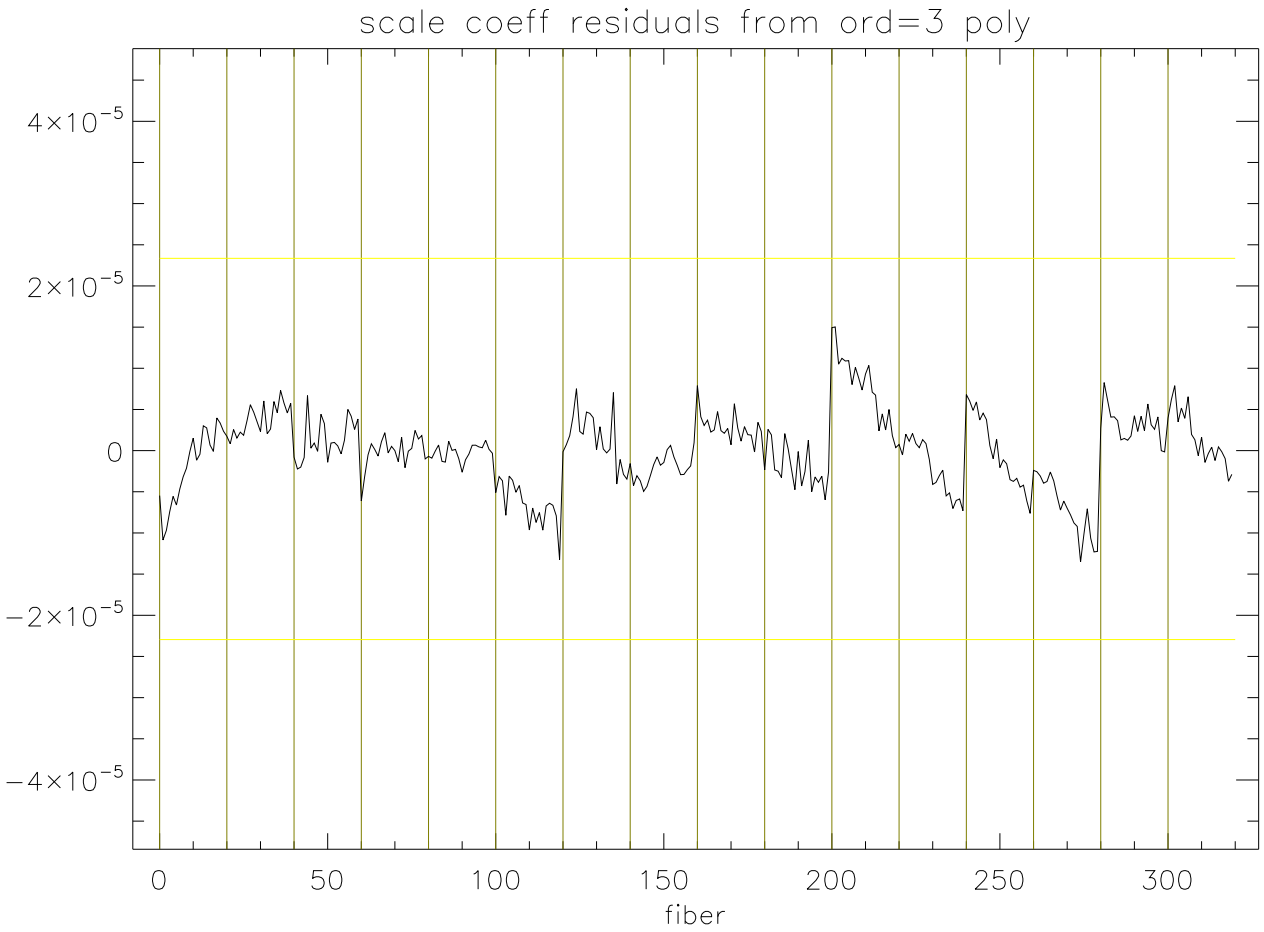

PLATE=2403 MJD=53789 sdR-r1-00037573.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.80 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

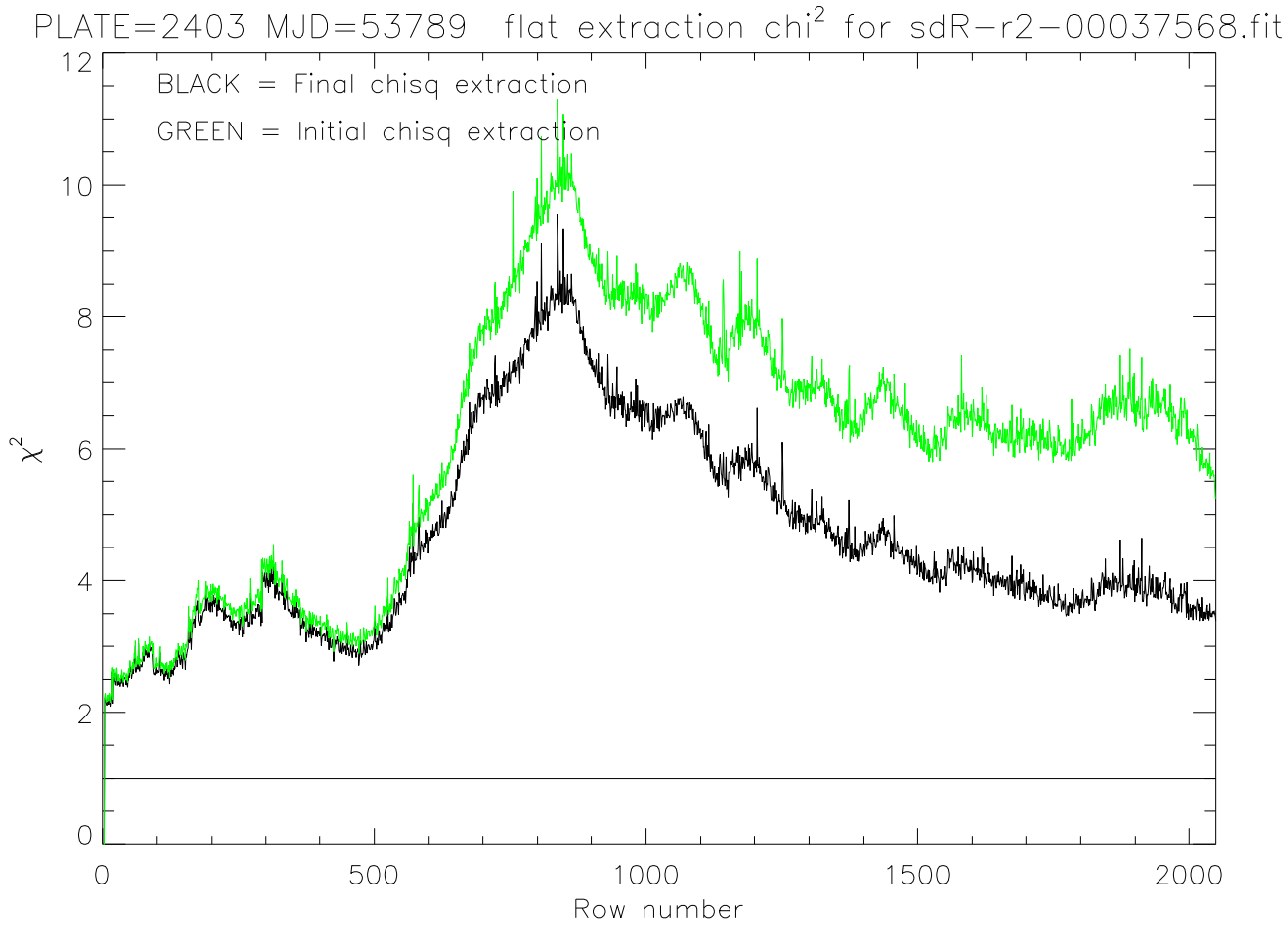

PLATE=2403 MJD=53789 sdR-r1-00037573.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.87 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

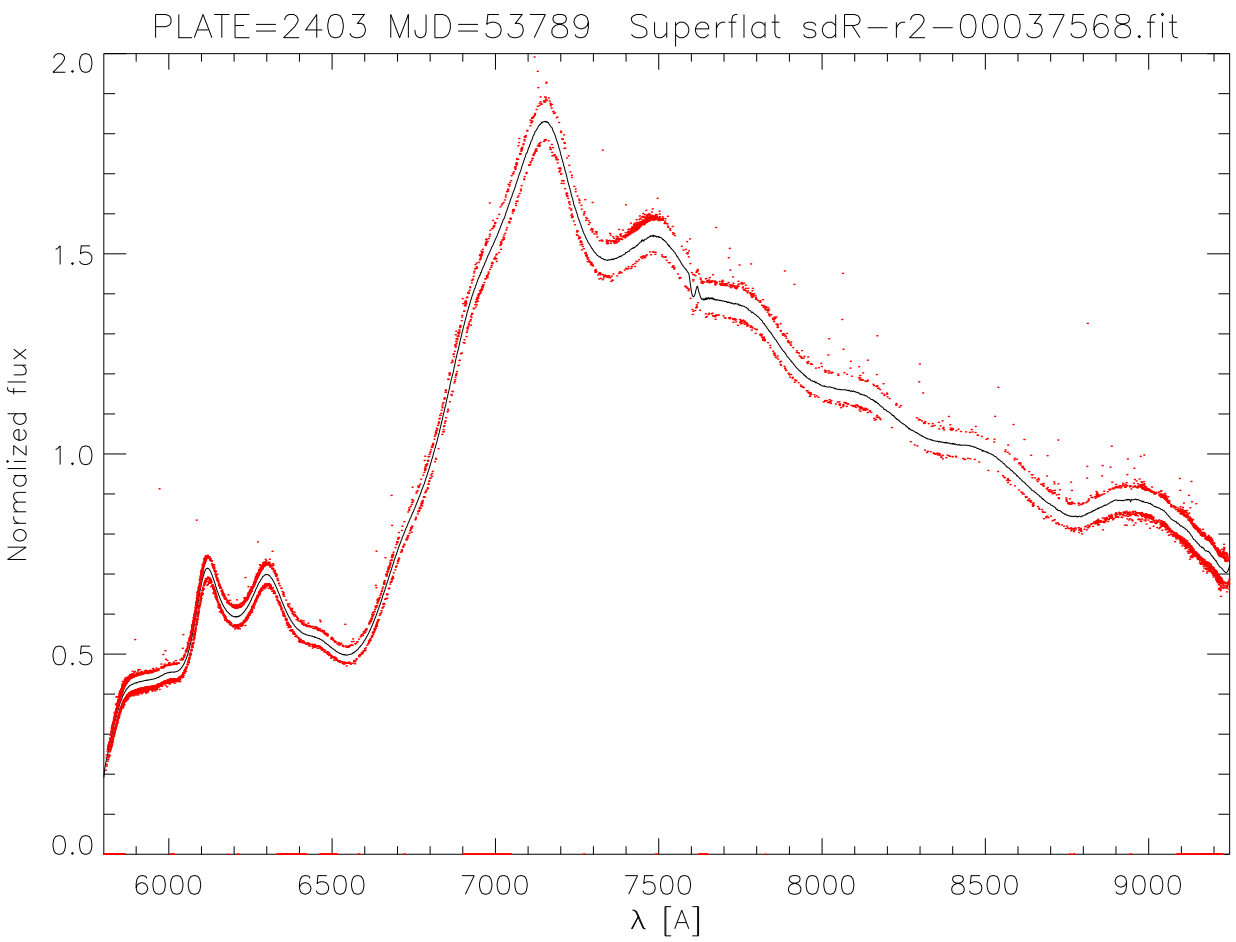

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

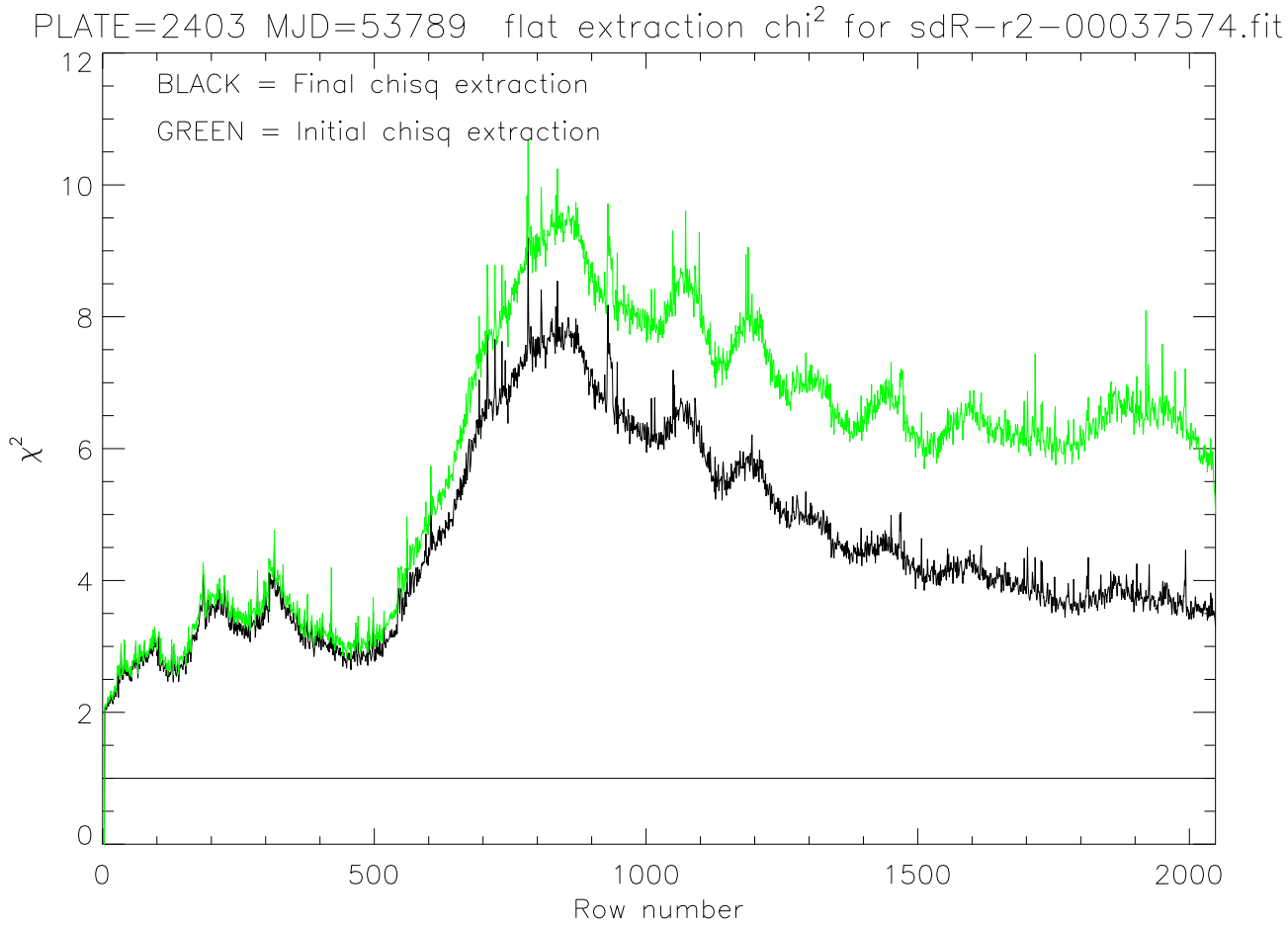

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

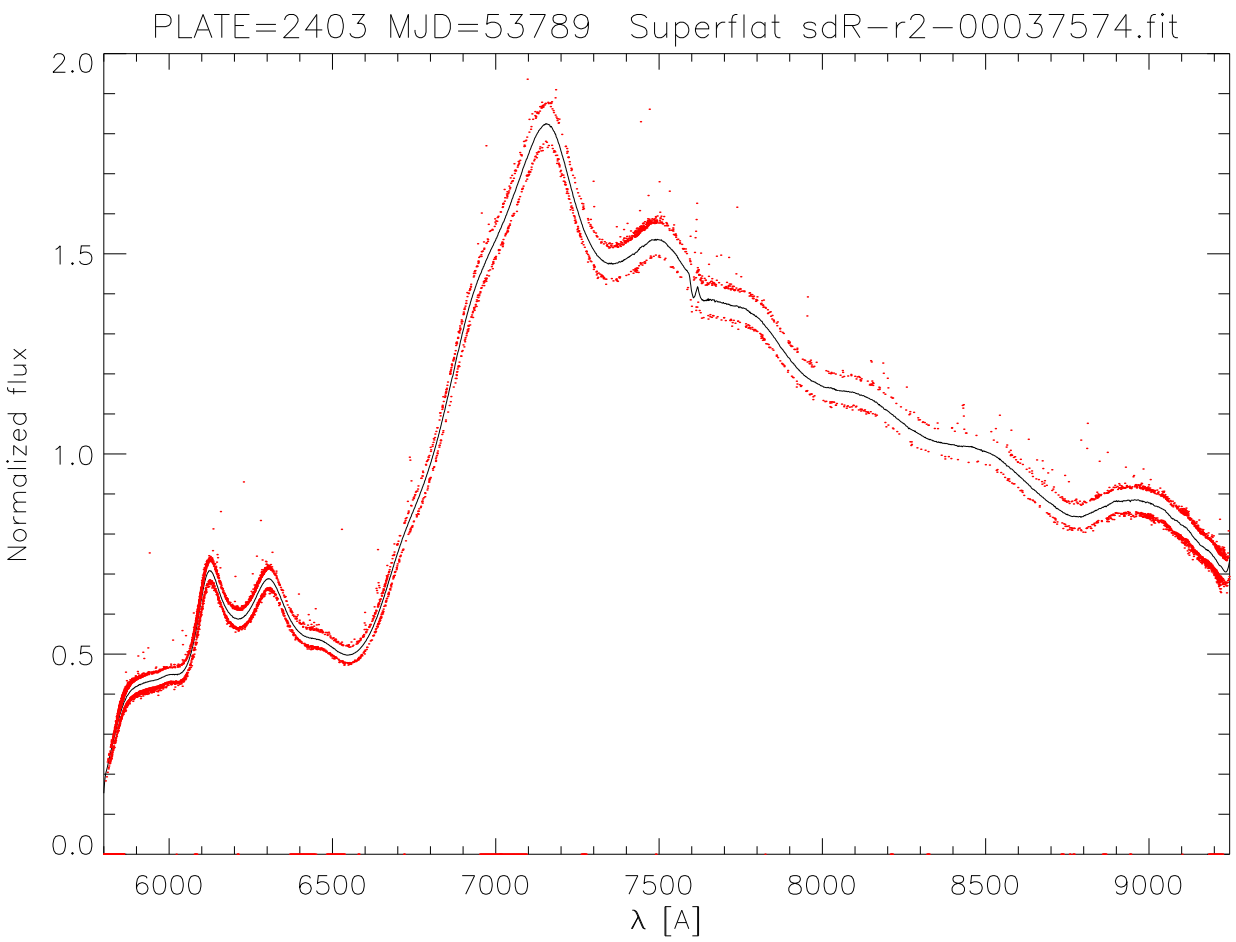

offset coeff residuals from ord=3 poly
1.5×10^-4
1.0×10^-4
5.0×10^-5
0
−5.0×10^-5
−1.0×10^-4
−1.5×10^-4
0
50
100
150
200
250
300
fiber

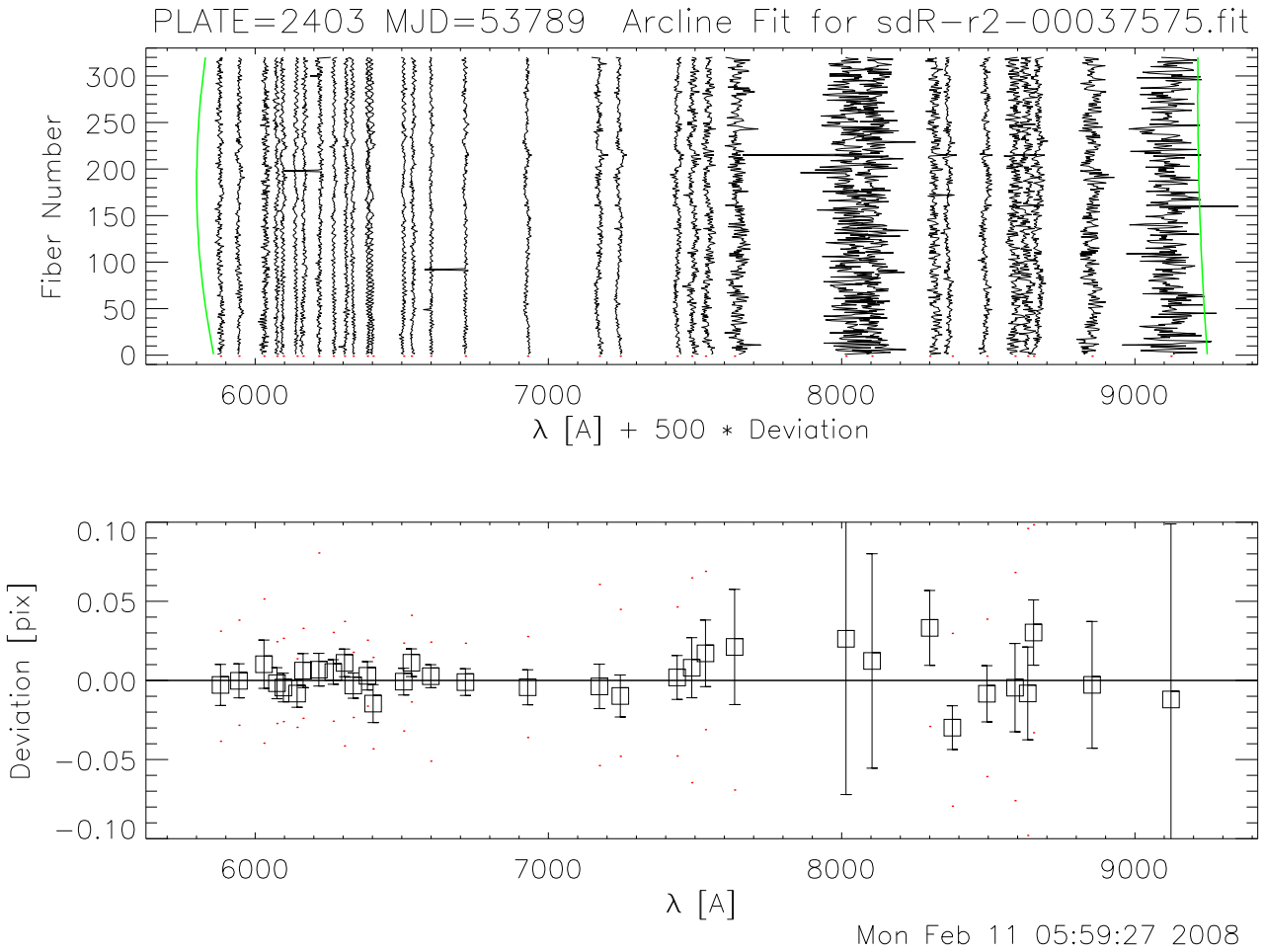

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

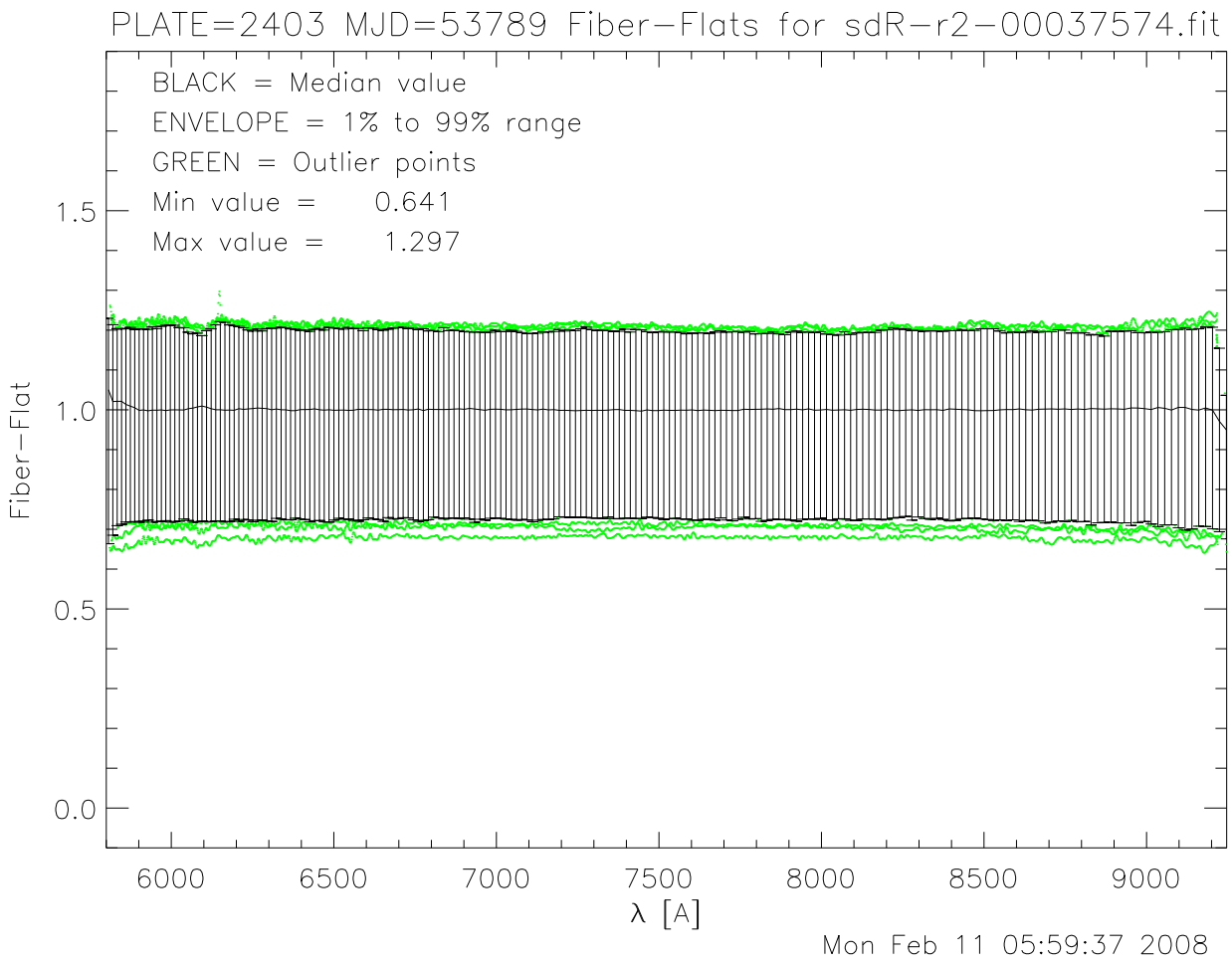

PLATE=2403 MJD=53789 flat extraction chi^2 for sdR−r2−00037568.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

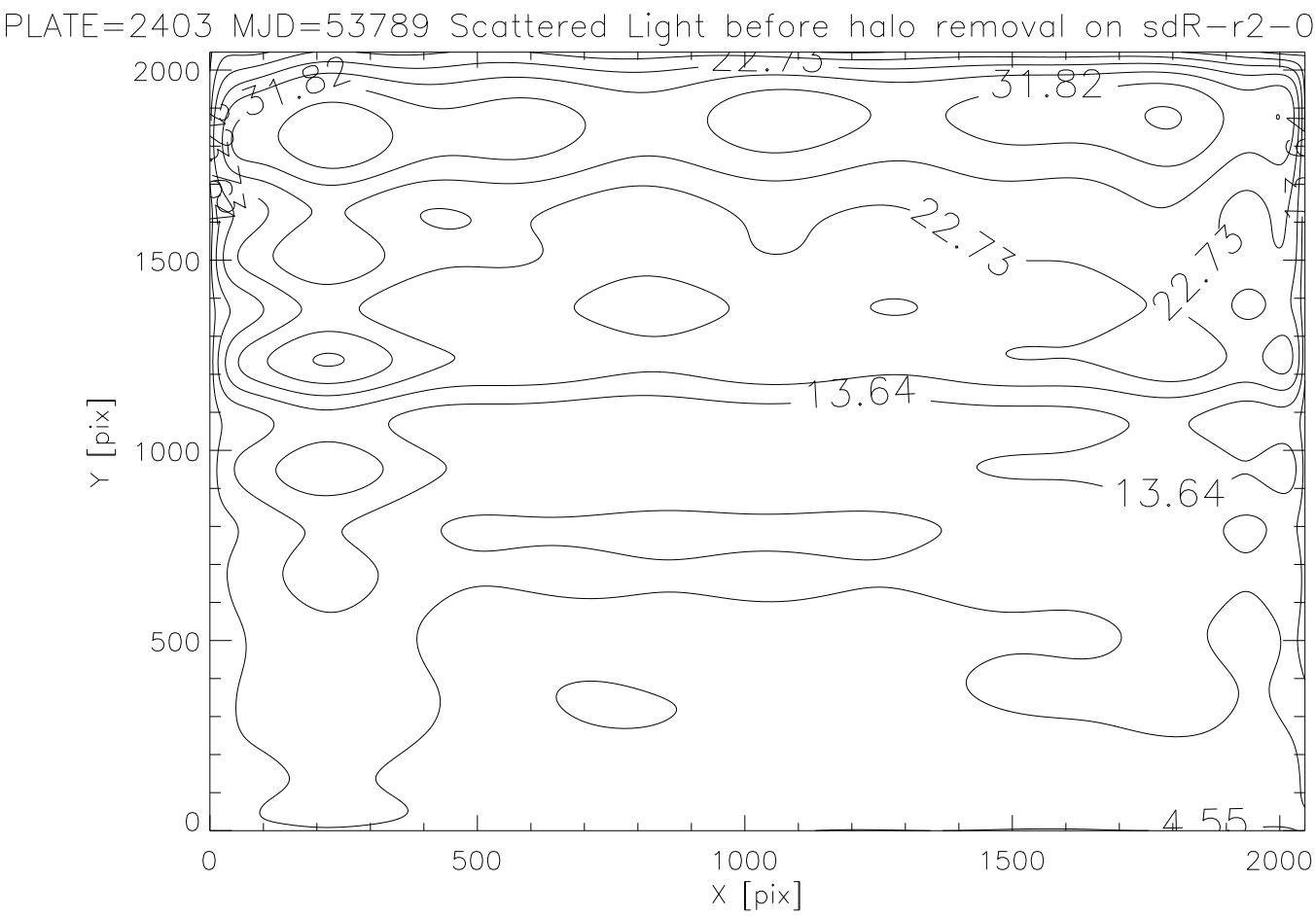

PLATE=2403 MJD=53789 Superflat sdR-r2-00037568.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

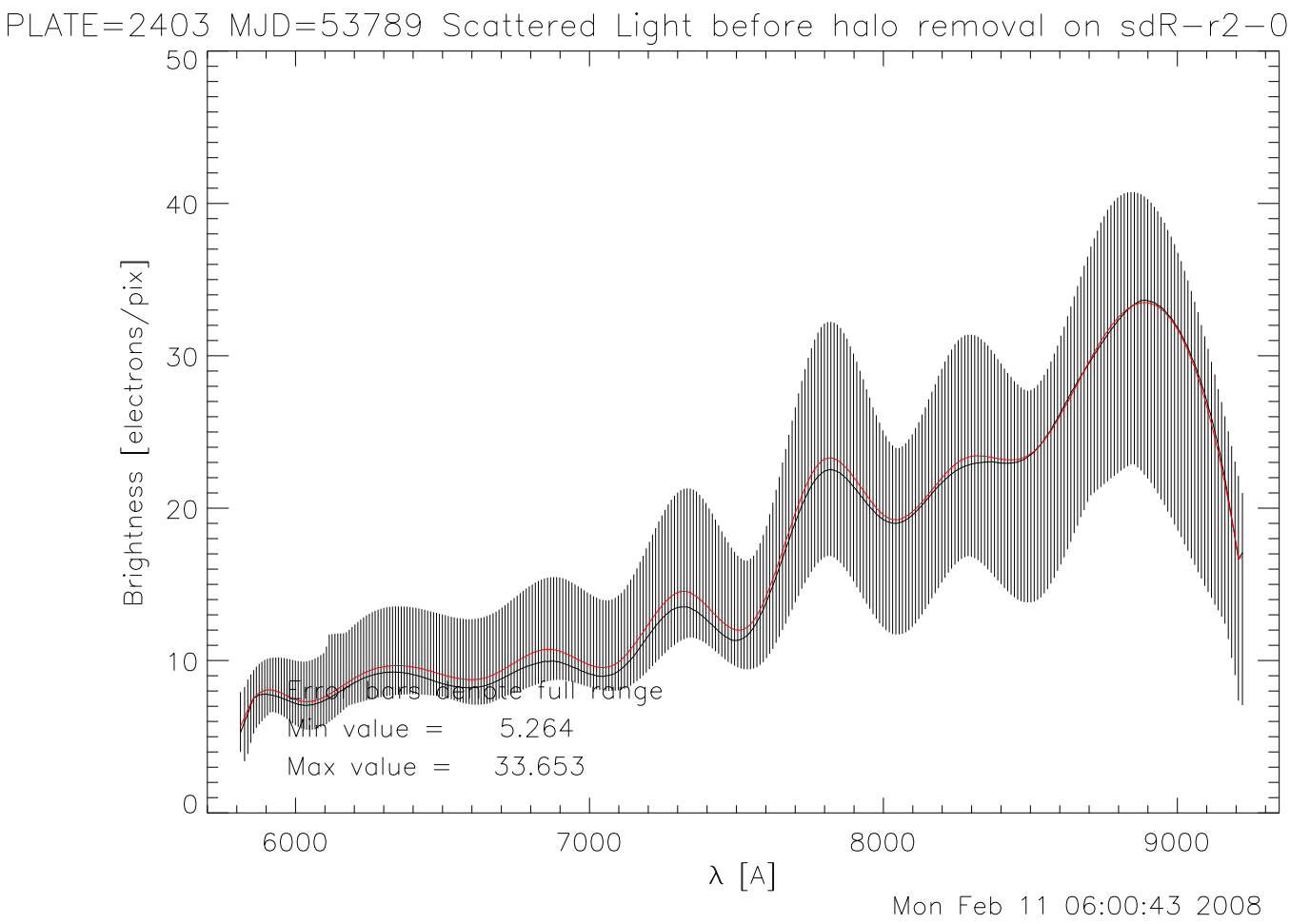

PLATE=2403 MJD=53789 flat extraction chi^2 for sdR−r2−00037574.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

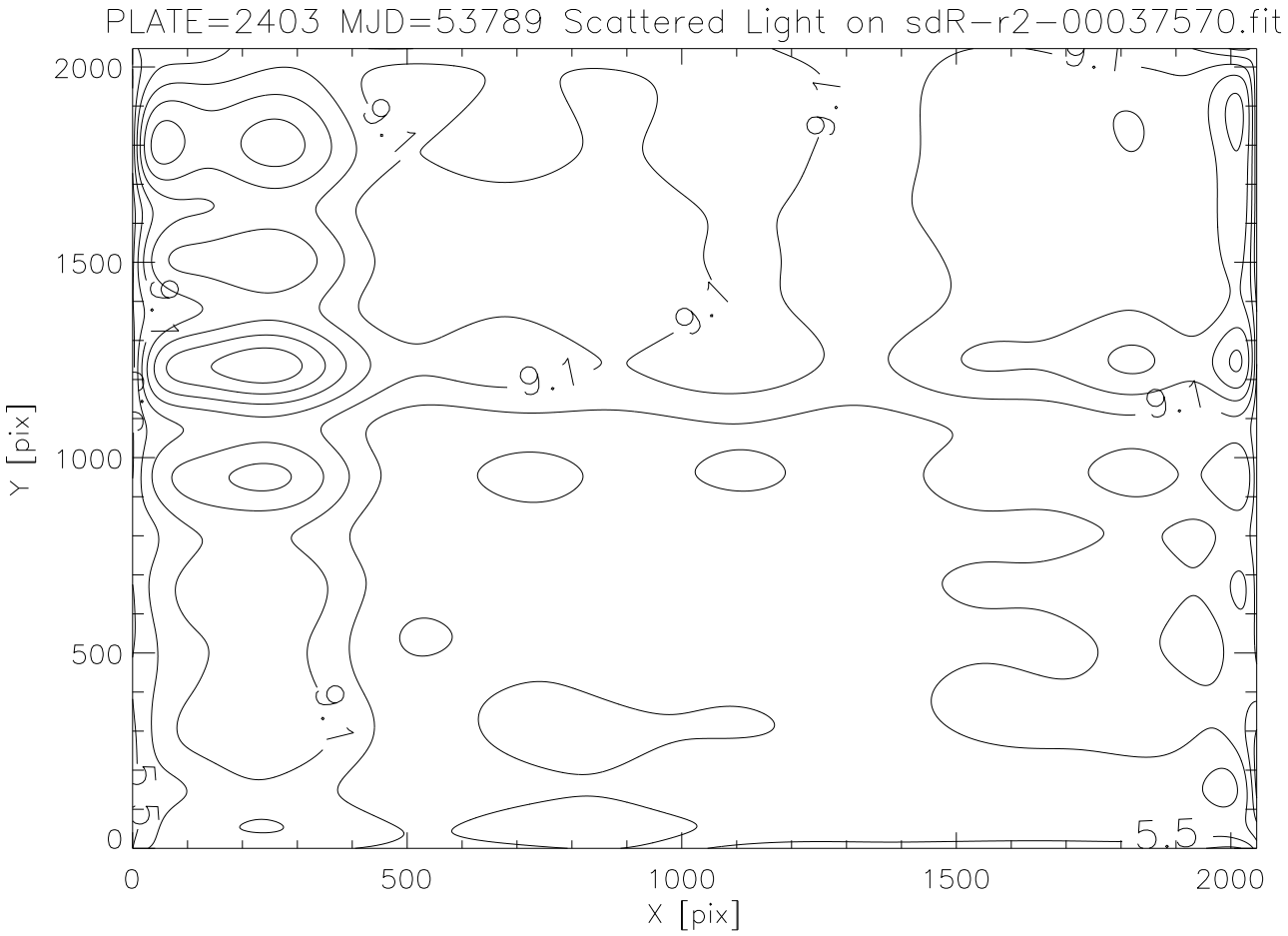

PLATE=2403 MJD=53789 Superflat sdR-r2-00037574.fit
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
6000
6500
7000
7500
8000
8500
9000

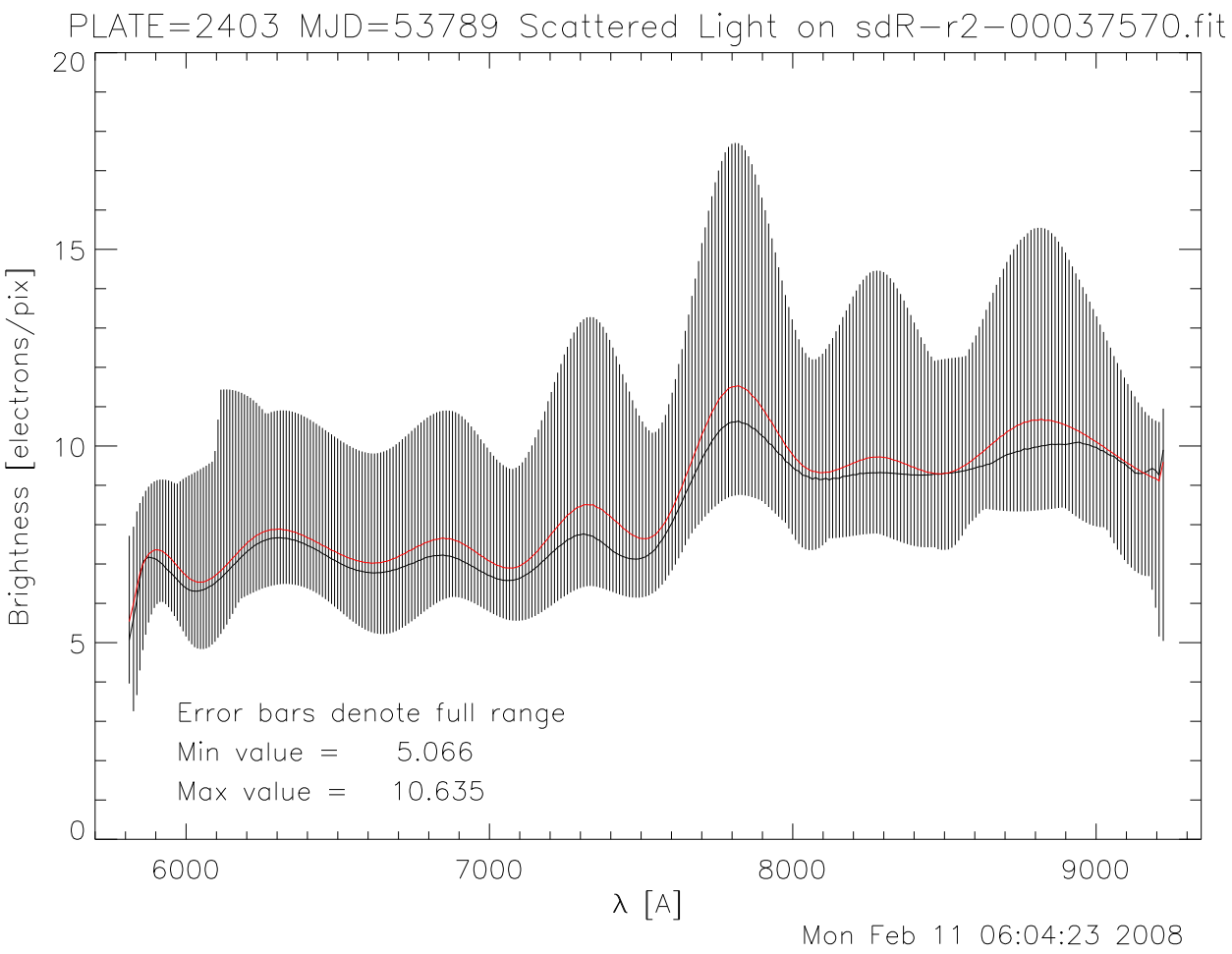

PLATE=2403 MJD=53789 Arcline Fit for sdR-r2-00037575.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Mon Feb 11 05:59:27 2008

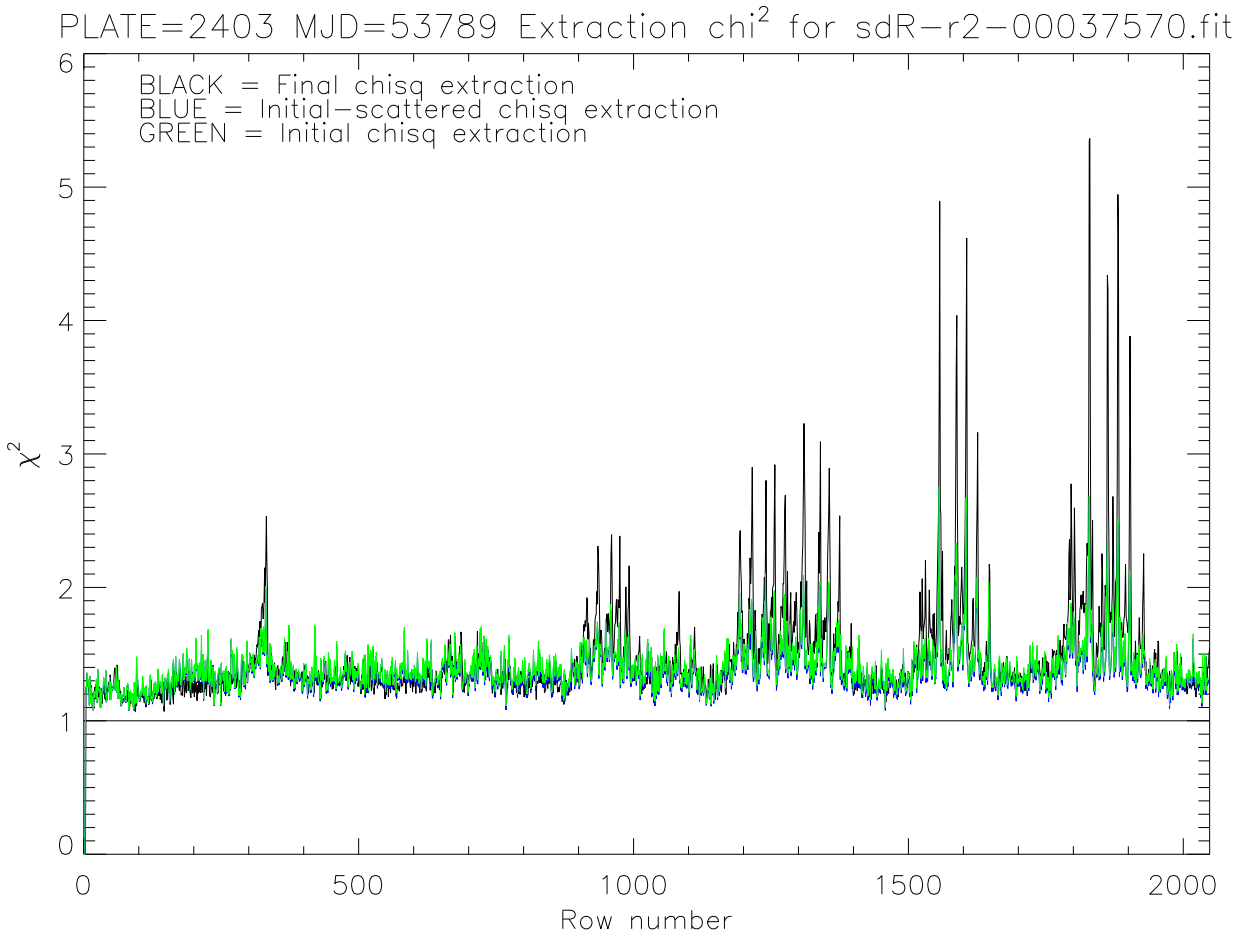

PLATE=2403 MJD=53789 Fiber−Flats for sdR−r2−00037574.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.641
Max value = 1.297
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 11 05:59:37 2008

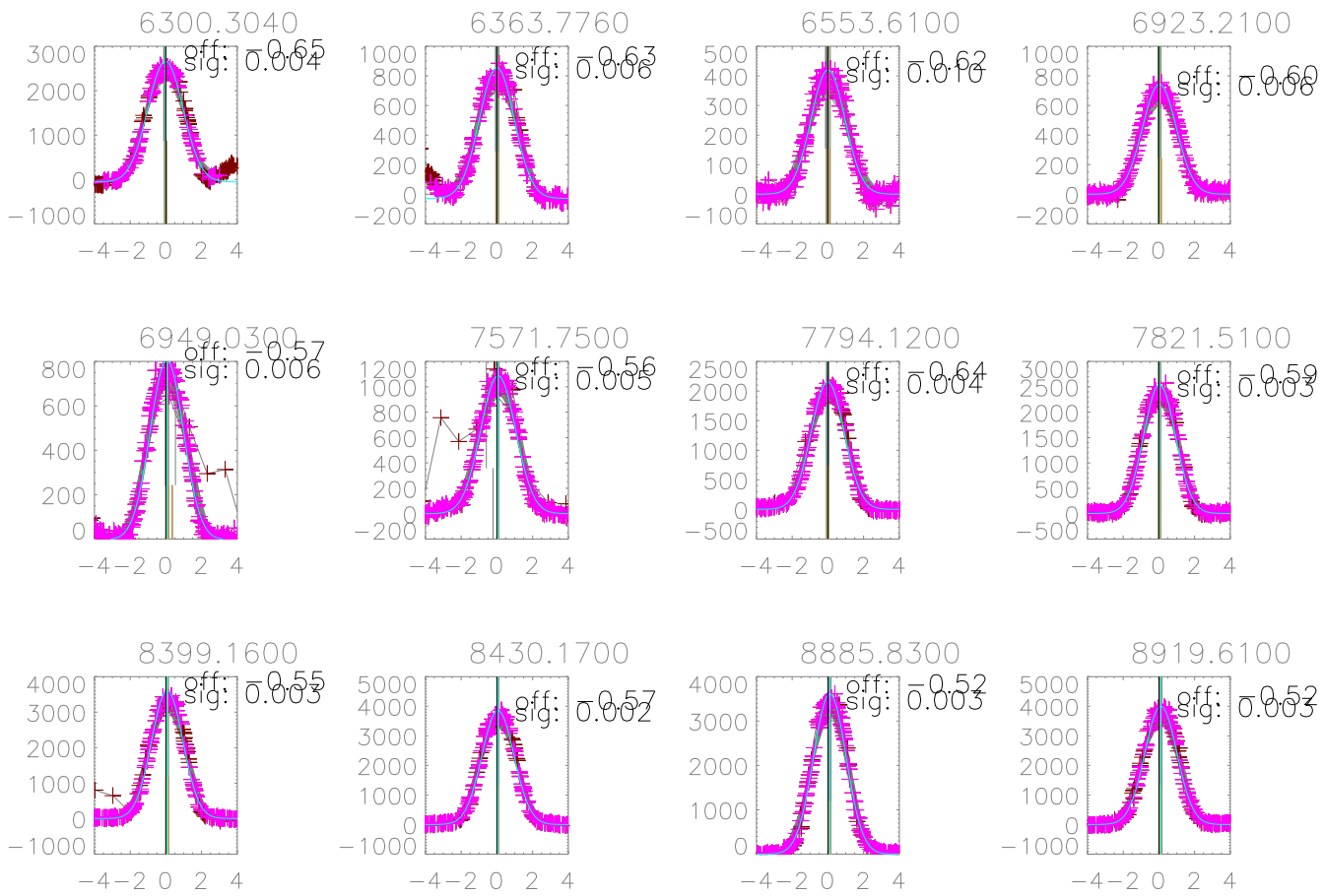

PLATE=2403 MJD=53789 Scattered Light before halo removal on sdR-r2-00037570.fi
22.73
31.82
31.82
22.73
22.73
13.64
13.64
4.55
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

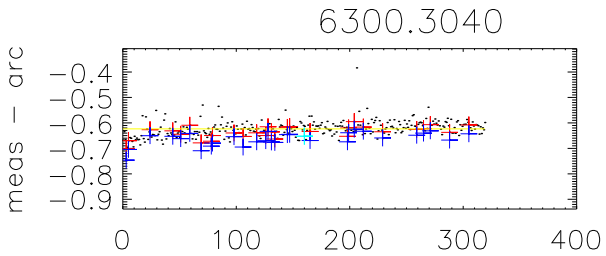

PLATE=2403 MJD=53789 Scattered Light before halo removal on sdR-r2-00037570.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.264
Max value = 33.653
Mon Feb 11 06:00:43 2008

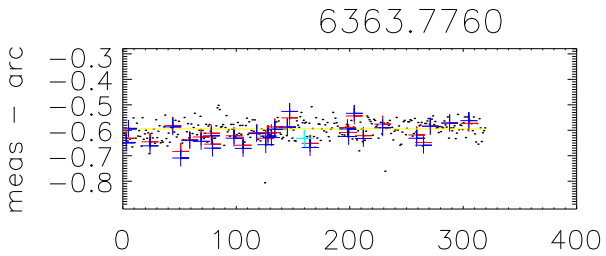

PLATE=2403 MJD=53789 Scattered Light on sdR-r2-00037570.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
9.1
5.5

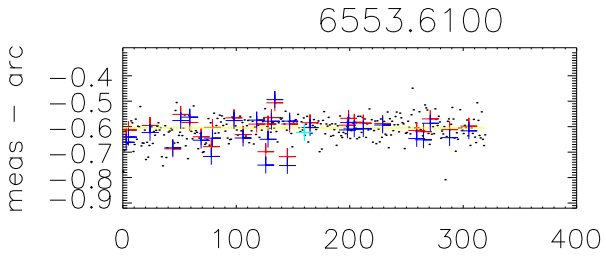

PLATE=2403 MJD=53789 Scattered Light on sdR-r2-00037570.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.066
Max value = 10.635
Mon Feb 11 06:04:23 2008

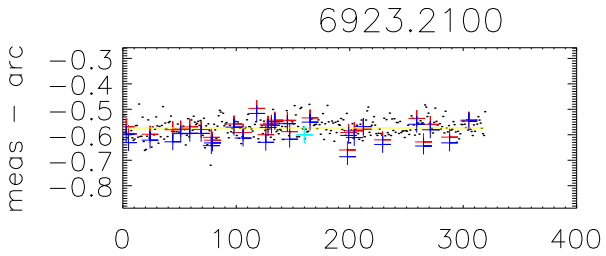

PLATE=2403 MJD=53789 Extraction chi^2 for sdR−r2−00037570.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

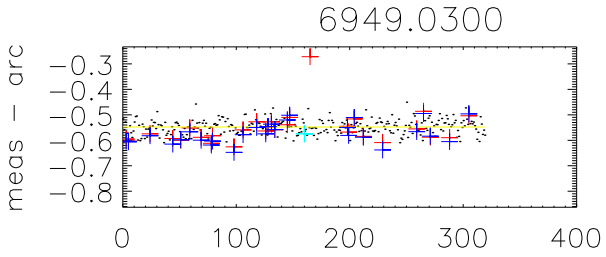

6300.3040
off: −0.65
sig: 0.004
6363.7760
off: −0.63
sig: 0.006
6553.6100
off: −0.62
sig: 0.010
6923.2100
off: −0.60
sig: 0.008
6949.0300
off: −0.57
sig: 0.006
7571.7500
off: −0.56
sig: 0.005
7794.1200
off: −0.64
sig: 0.004
7821.5100
off: −0.59
sig: 0.003
8399.1600
off: −0.55
sig: 0.003
8430.1700
off: −0.57
sig: 0.002
8885.8300
off: −0.52
sig: 0.003
8919.6100
off: −0.52
sig: 0.003

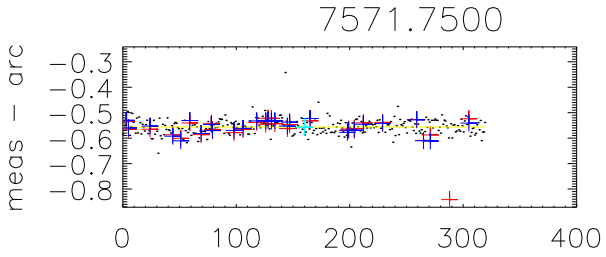

6300.3040
meas − arc
−0.4
−0.5
−0.6
−0.7
−0.8
−0.9
0
100
200
300
400

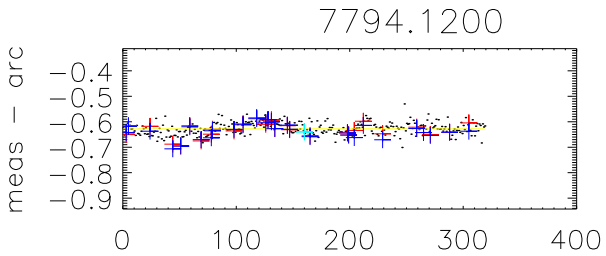

6363.7760
meas − arc
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
0
100
200
300
400

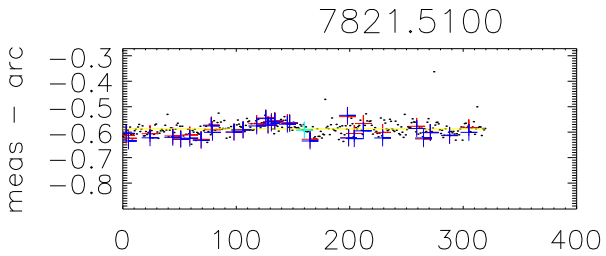

6553.6100
meas − arc
−0.4
−0.5
−0.6
−0.7
−0.8
−0.9
0
100
200
300
400

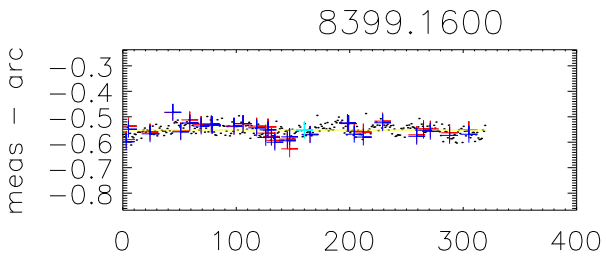

6923.2100
meas − arc
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
0
100
200
300
400

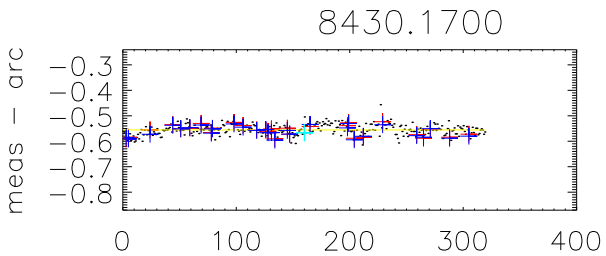

6949.0300
meas − arc
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
0
100
200
300
400

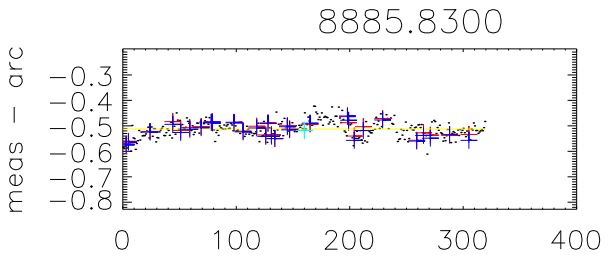

7571.7500
meas − arc
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
0
100
200
300
400

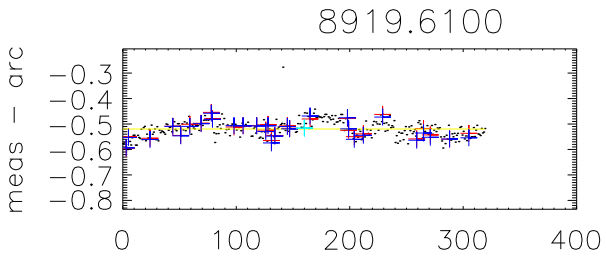

7794.1200
meas − arc
−0.4
−0.5
−0.6
−0.7
−0.8
−0.9
0
100
200
300
400

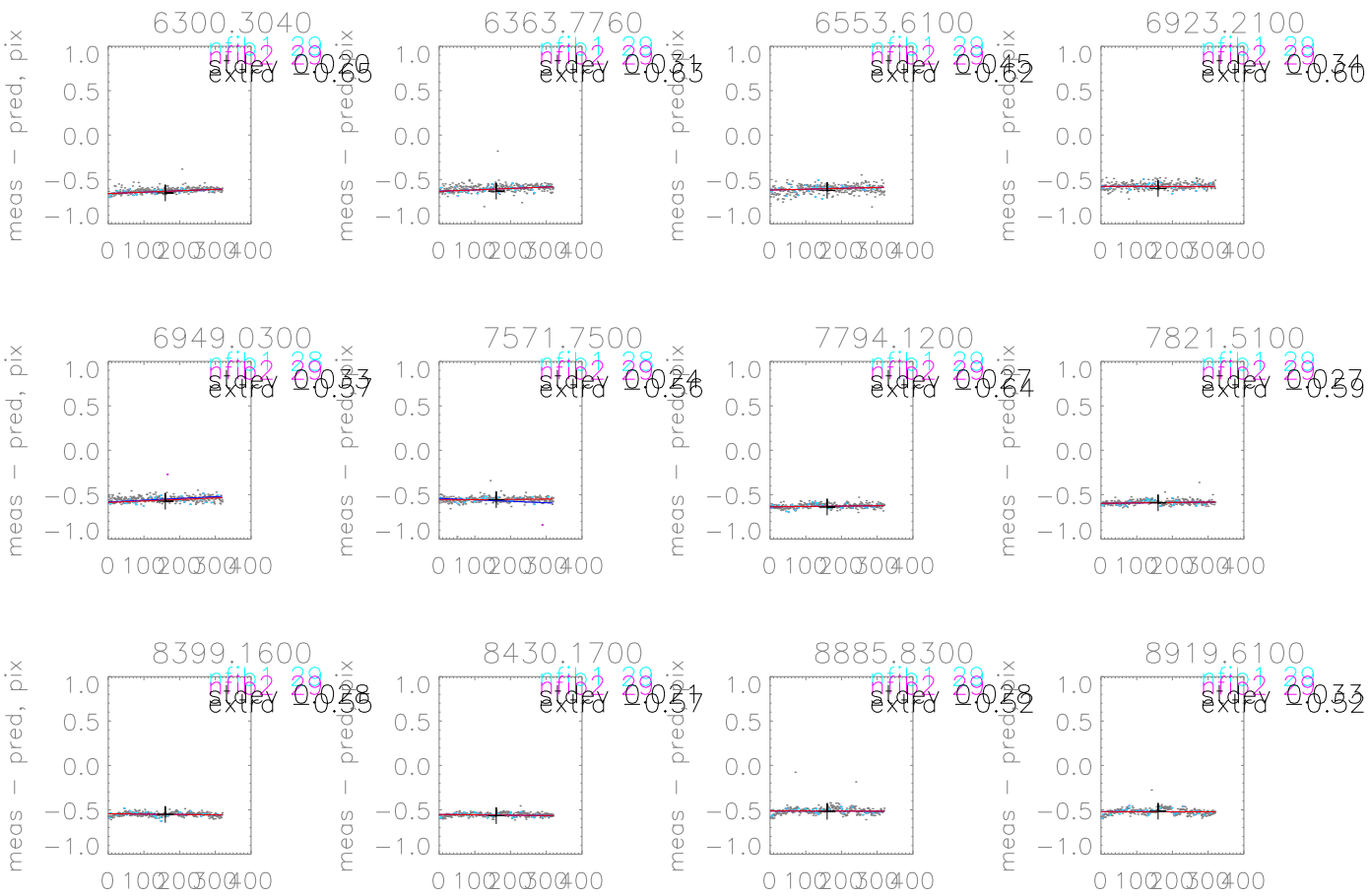

7821.5100
meas − arc
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
0
100
200
300
400

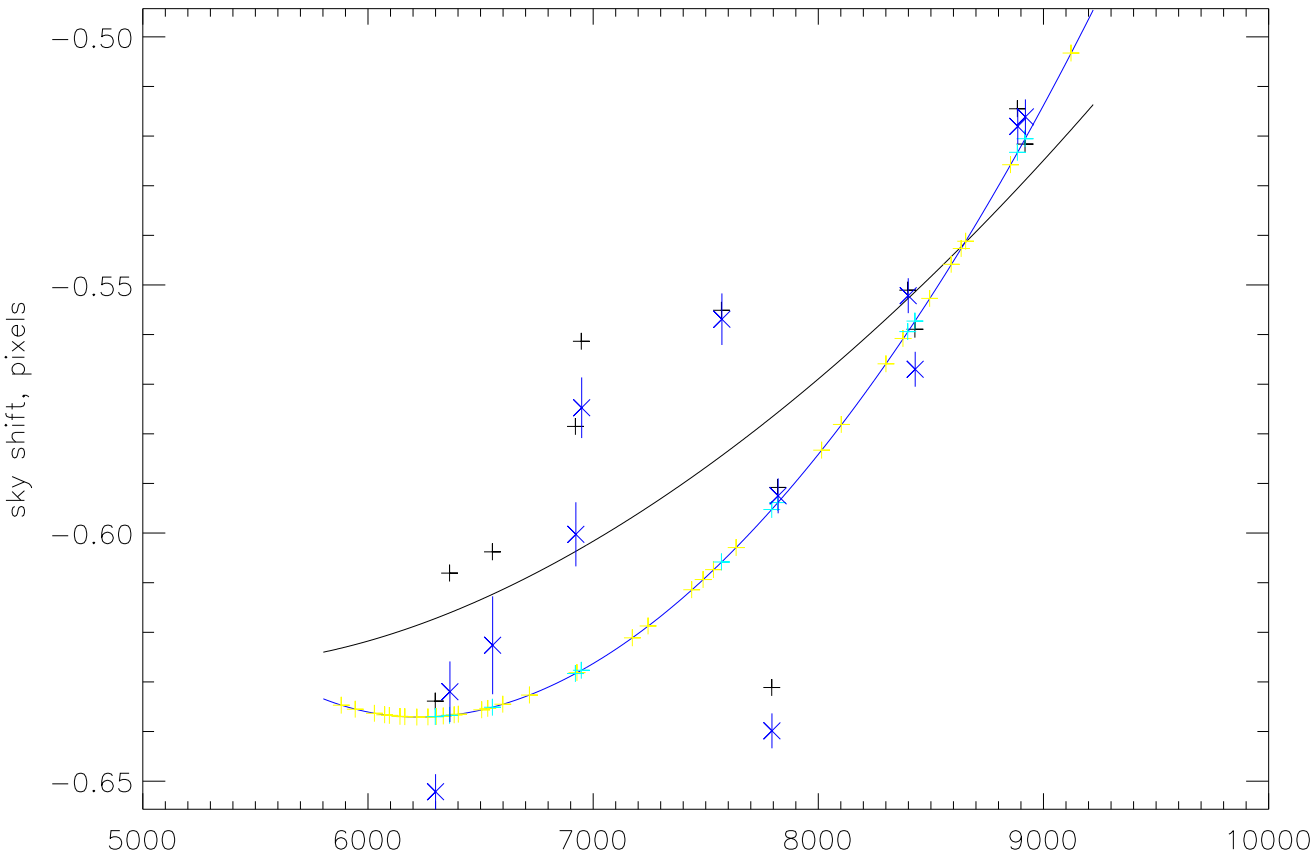

8399.1600
meas − arc
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
0
100
200
300
400

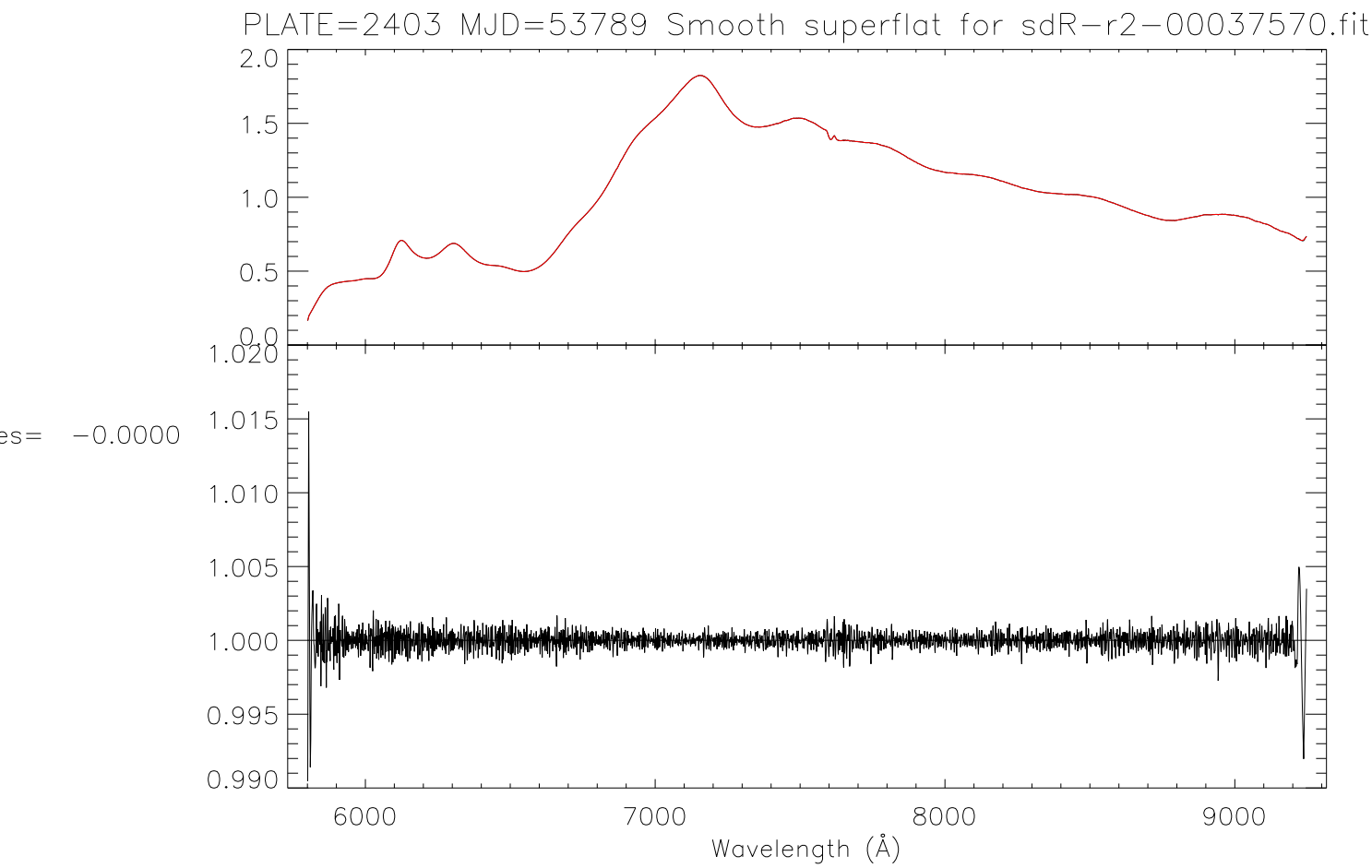

8430.1700
meas − arc
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
0
100
200
300
400


8885.8300
meas − arc
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
0
100
200
300
400

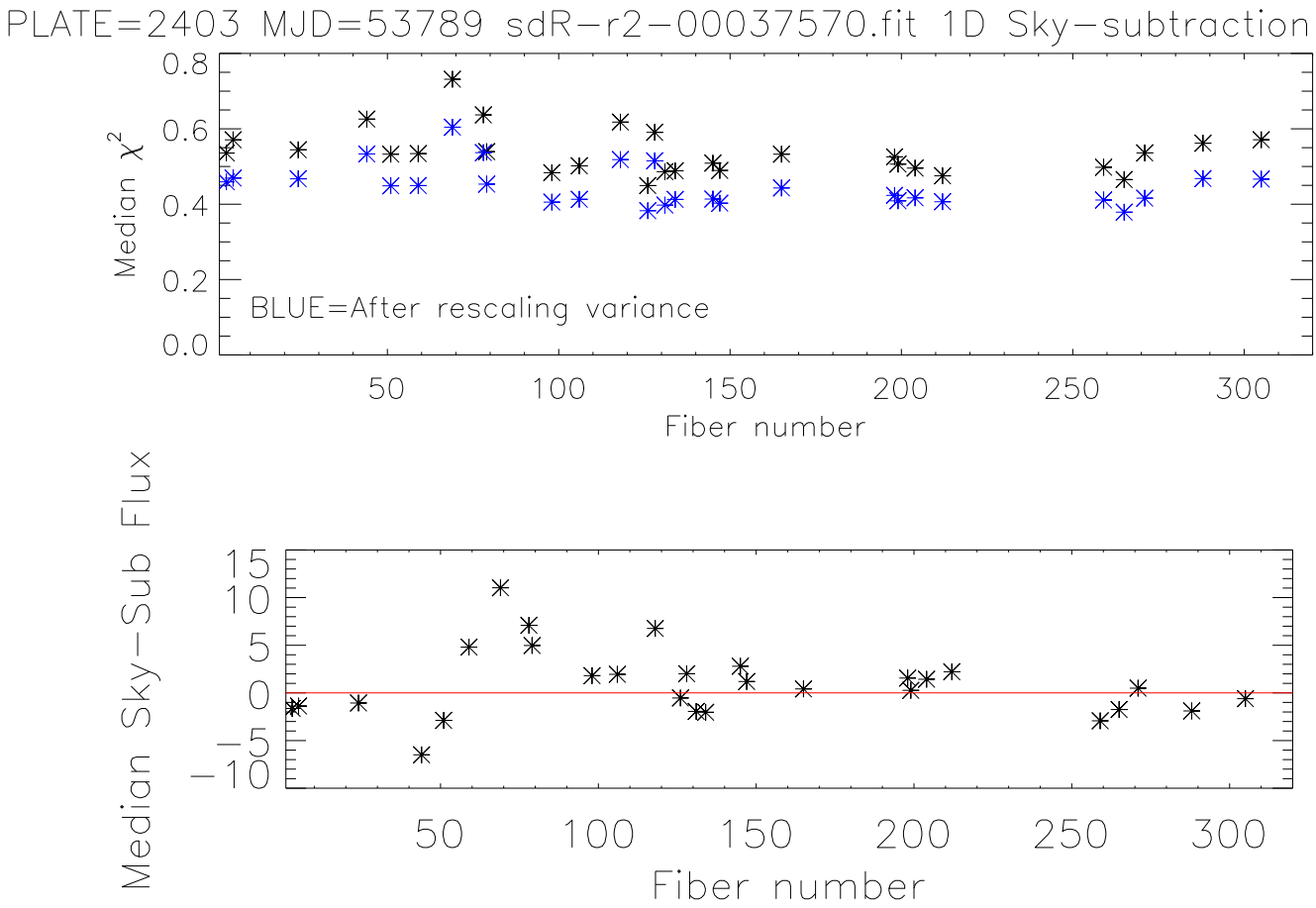

8919.6100
meas − arc
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
0
100
200
300
400

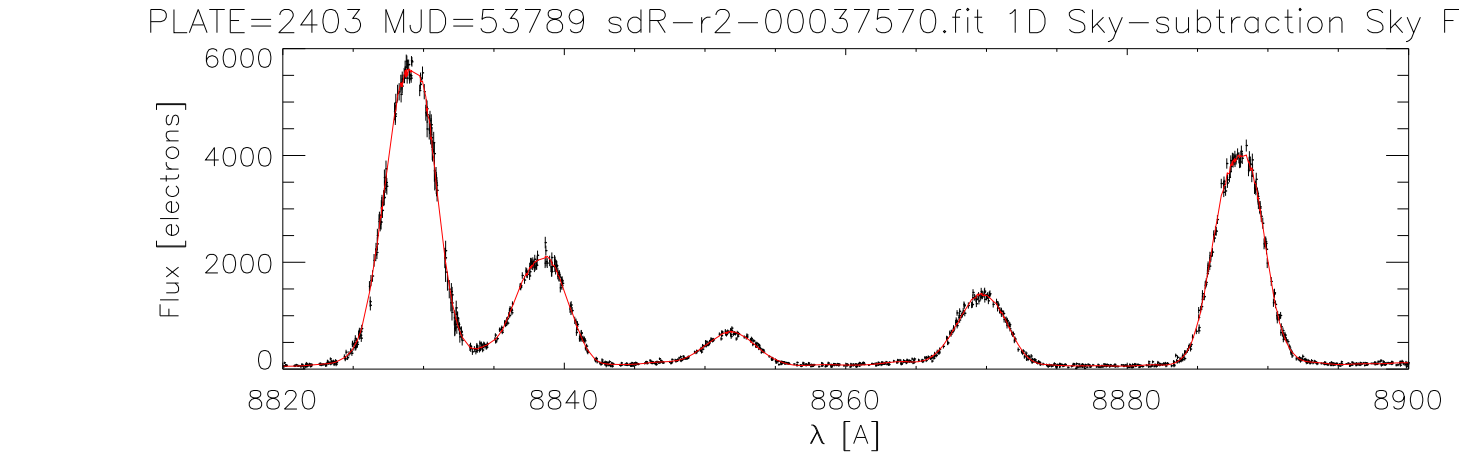

6300.3040
stdev 0.020
extra −0.65
6363.7760
stdev 0.031
extra −0.63
6553.6100
stdev 0.045
extra −0.62
6923.2100
stdev 0.034
extra −0.60
6949.0300
stdev 0.033
extra −0.57
7571.7500
stdev 0.024
extra −0.56
7794.1200
stdev 0.027
extra −0.64
7821.5100
stdev 0.027
extra −0.59
8399.1600
stdev 0.028
extra −0.56
8430.1700
stdev 0.021
extra −0.57
8885.8300
stdev 0.028
extra −0.52
8919.6100
stdev 0.033
extra −0.52
meas − pred, pix
mfhb1 28
mfhb2 28

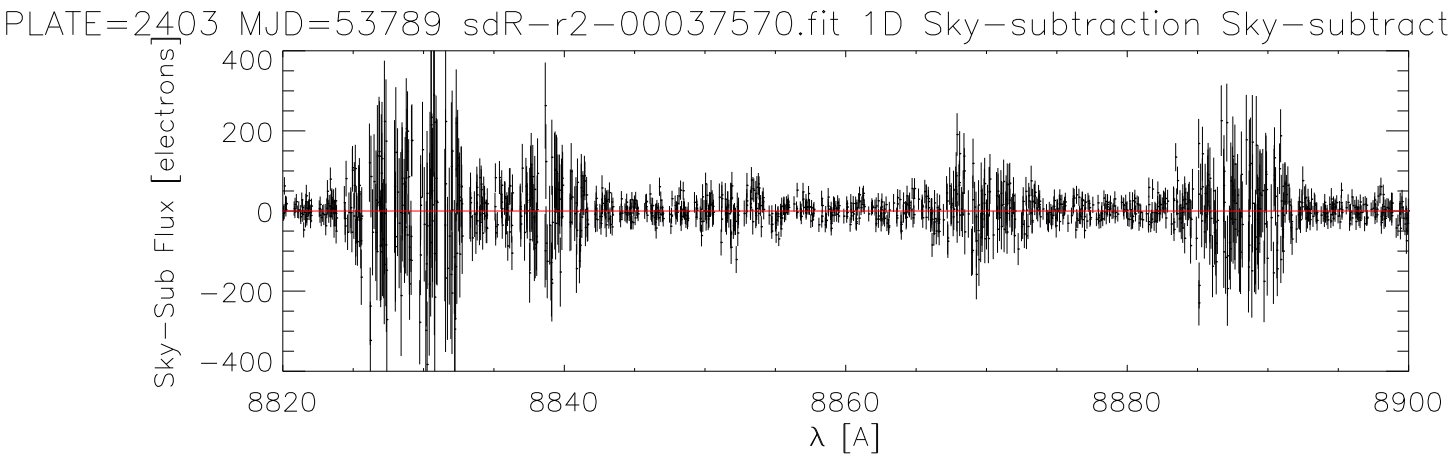

−0.50
−0.55
−0.60
−0.65
sky shift, pixels
5000
6000
7000
8000
9000
10000

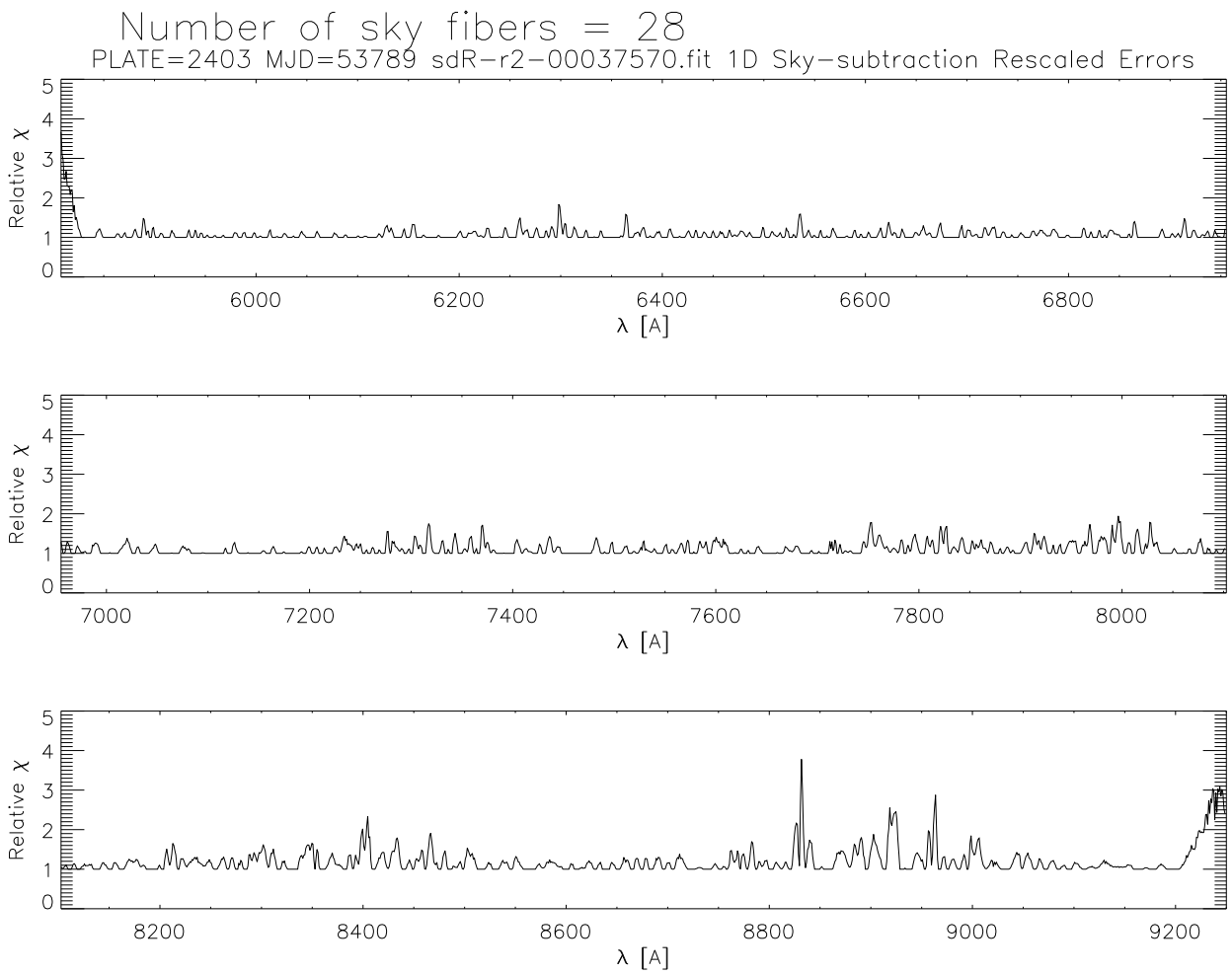

PLATE=2403 MJD=53789 Smooth superflat for sdR-r2-00037570.fit
2.0
1.5
1.0
0.5
0.0
1.020
1.015
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

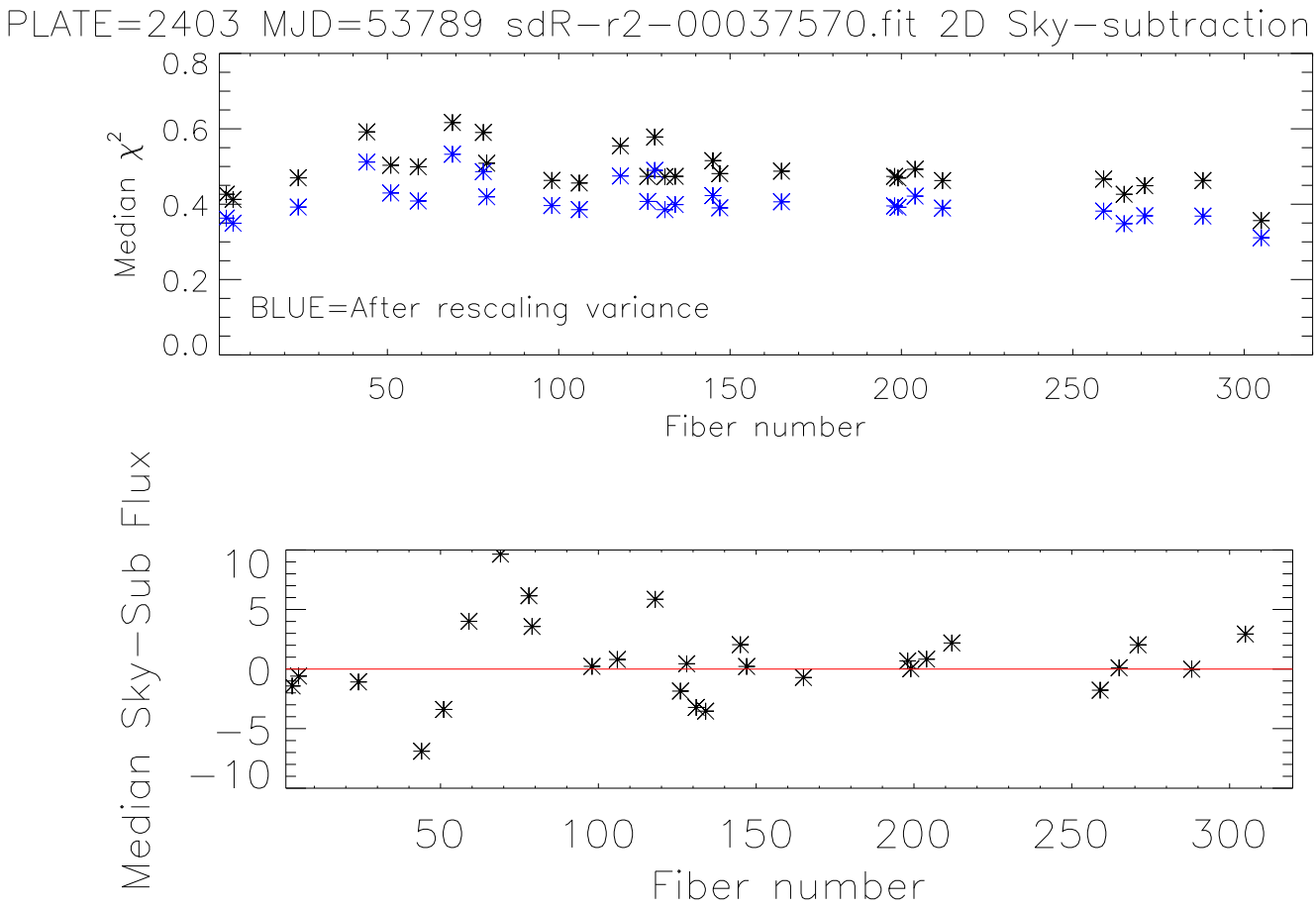
es= −0.0000

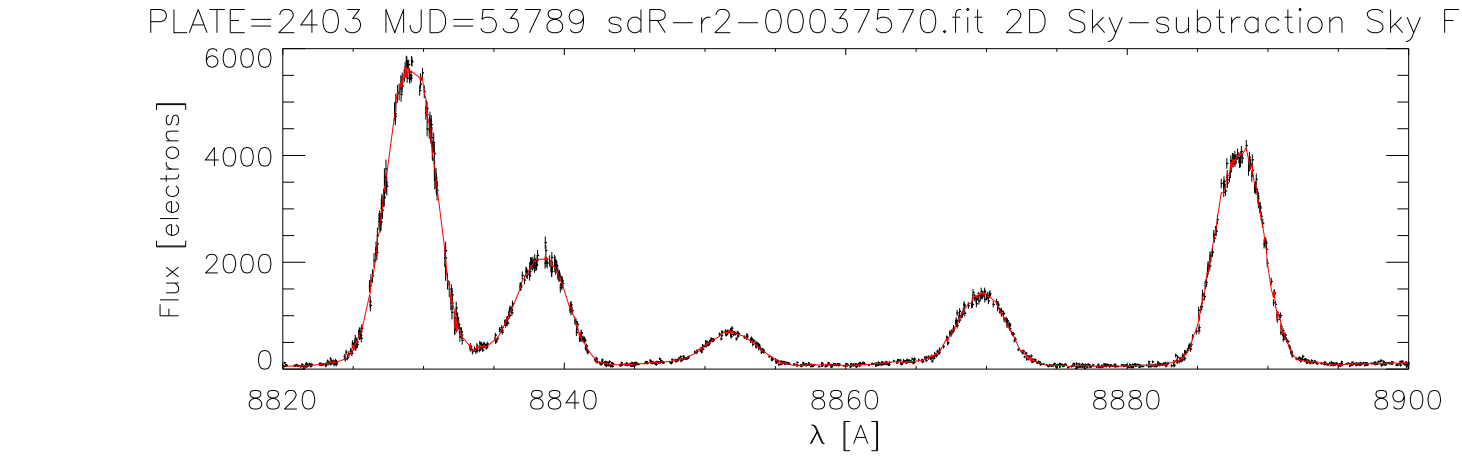

PLATE=2403 MJD=53789 sdR-r2-00037570.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
15
10
5
0
-5
-10
50
100
150
200
250
300
Fiber number

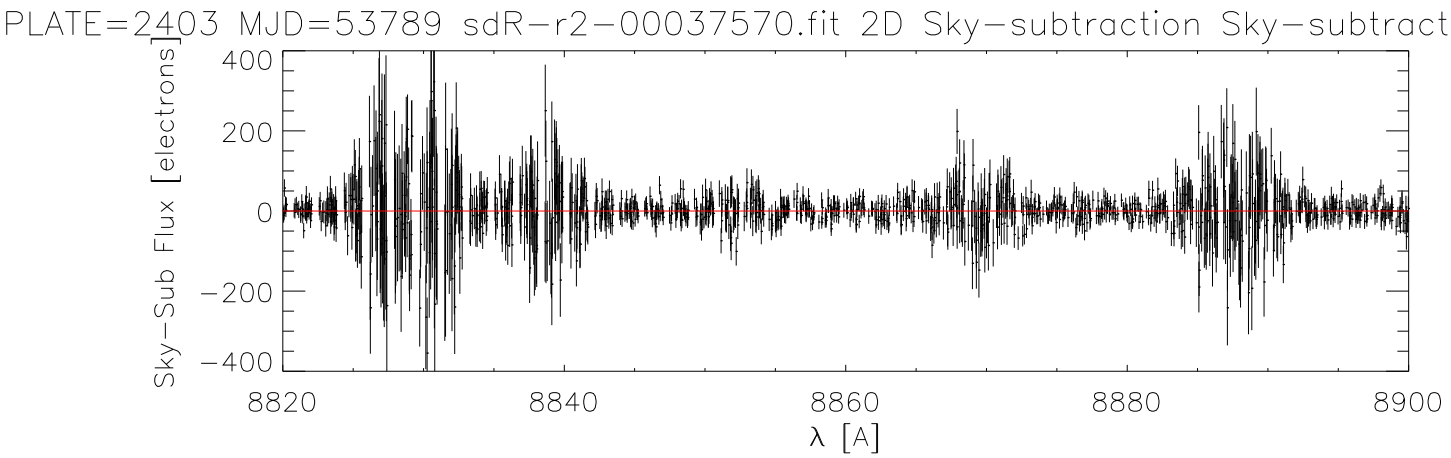

PLATE=2403 MJD=53789 sdR-r2-00037570.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

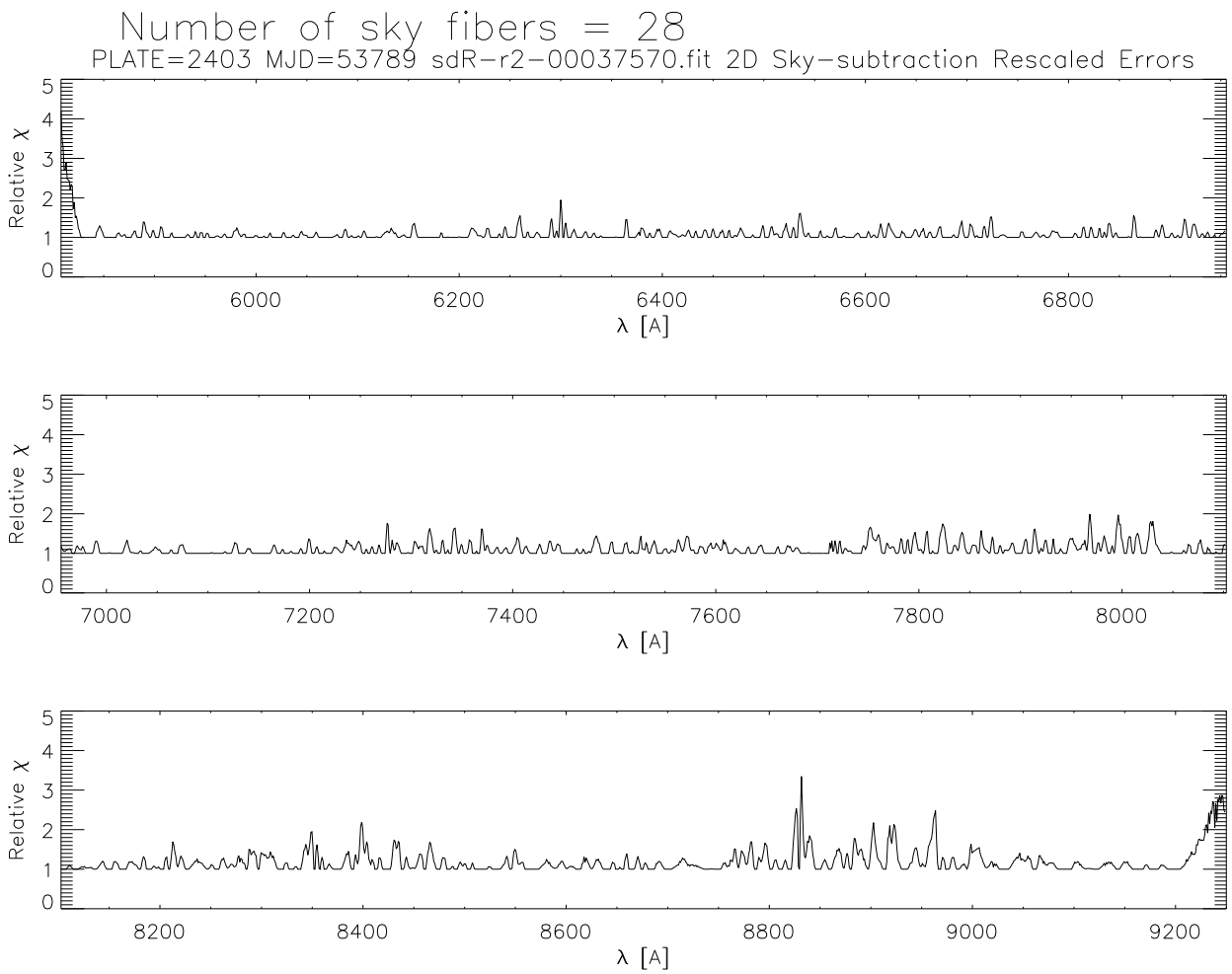

PLATE=2403 MJD=53789 sdR-r2-00037570.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

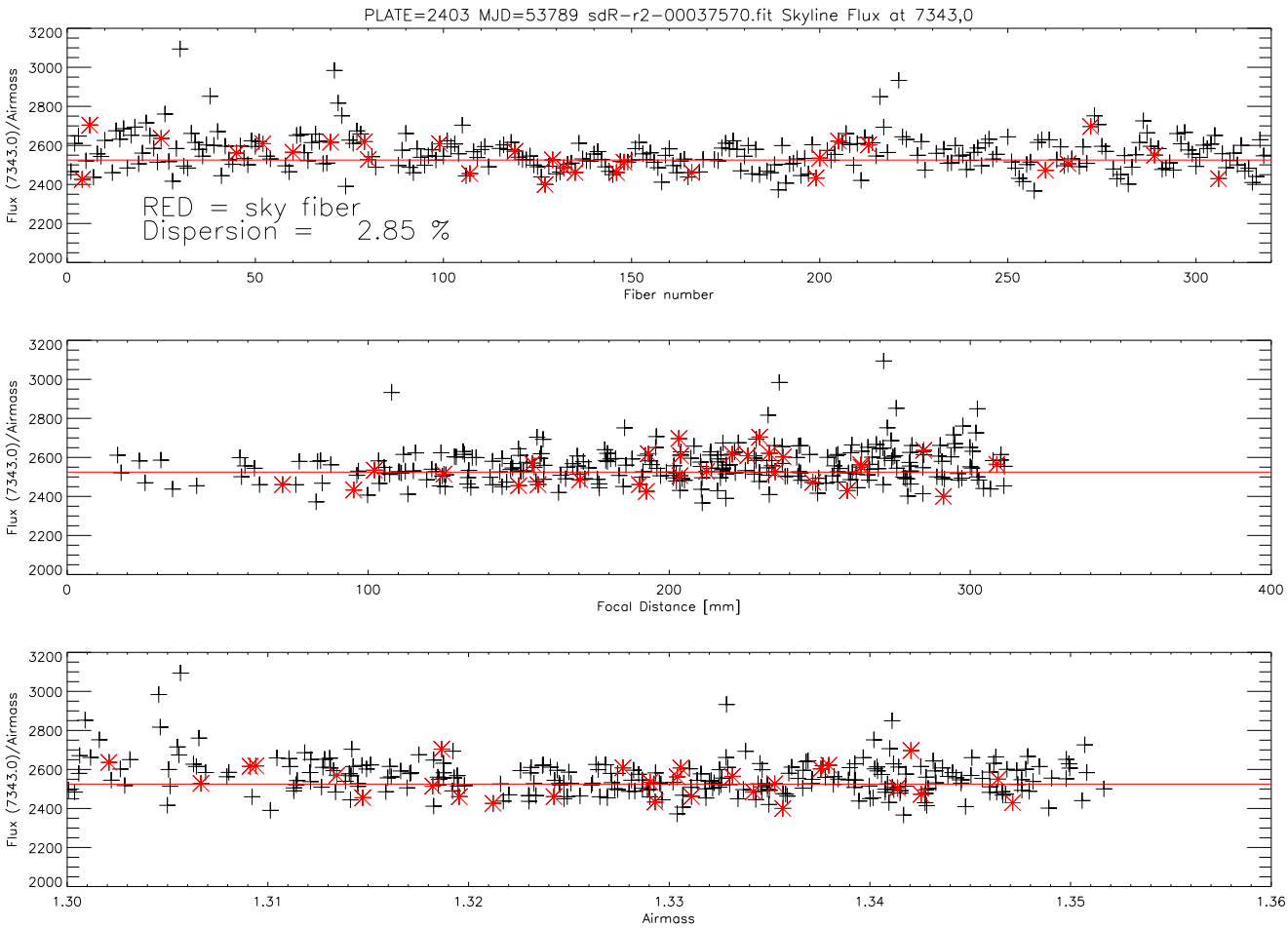

Number of sky fibers = 28
PLATE=2403 MJD=53789 sdR-r2-00037570.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

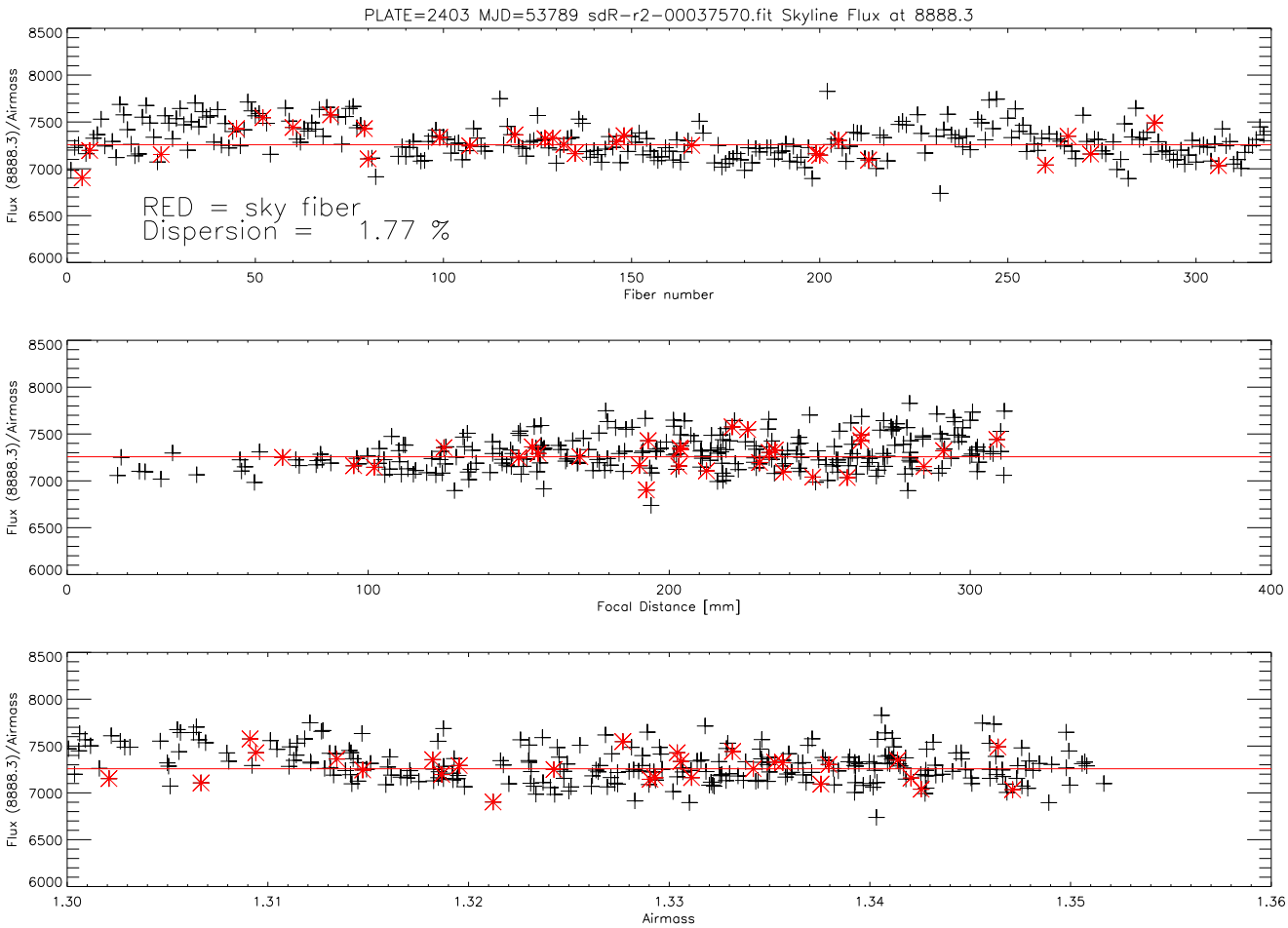

PLATE=2403 MJD=53789 sdR-r2-00037570.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

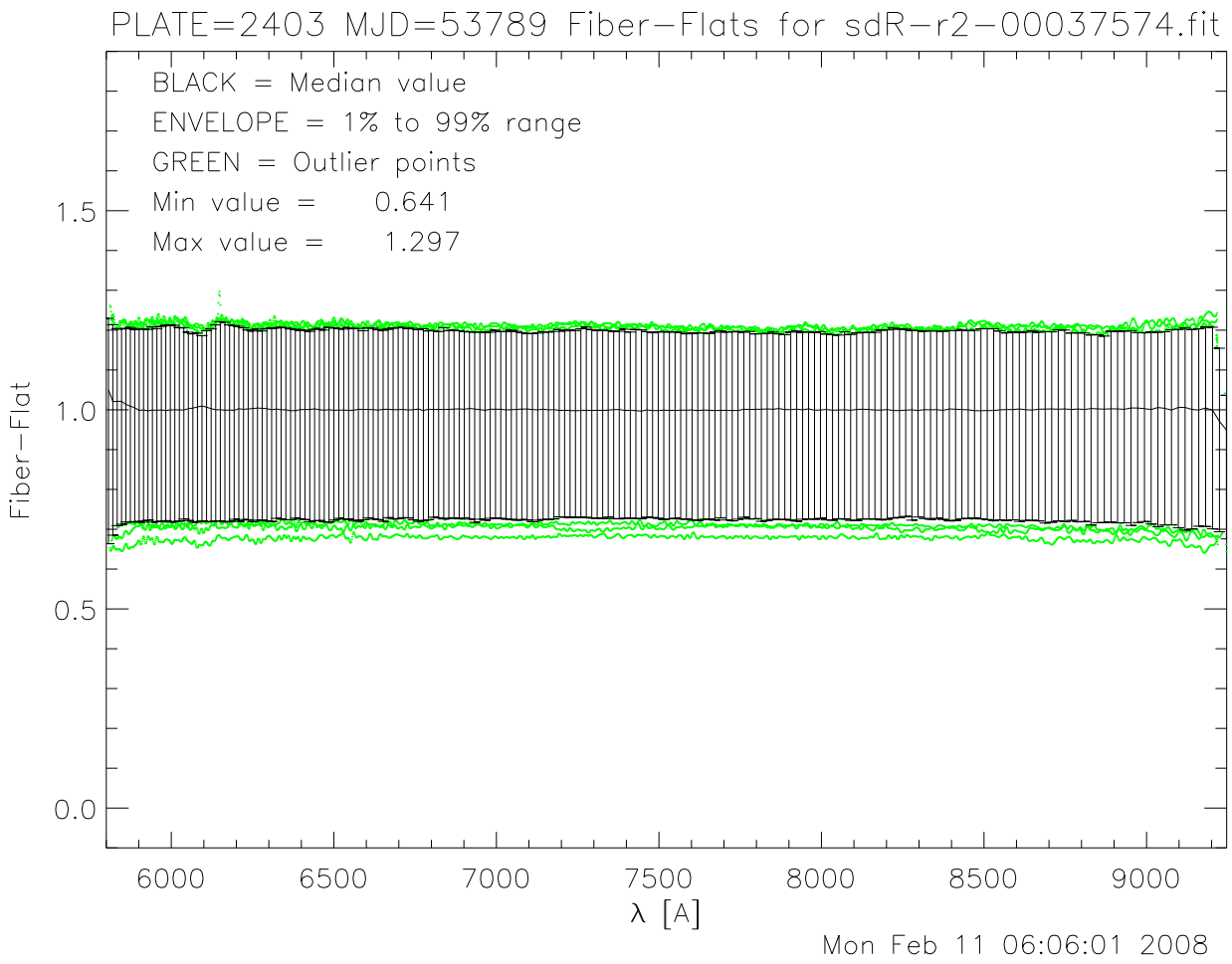

PLATE=2403 MJD=53789 sdR-r2-00037570.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

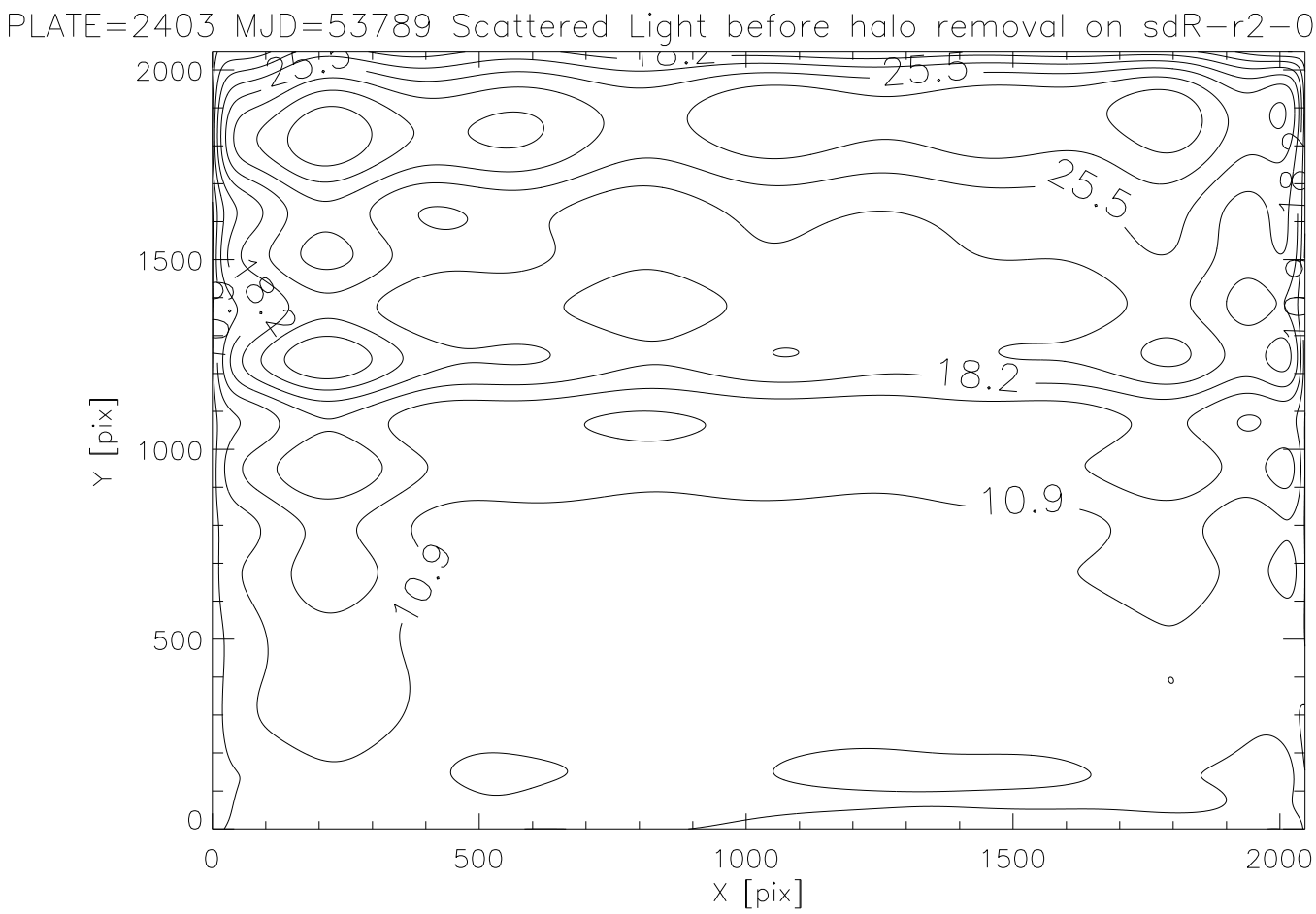

PLATE=2403 MJD=53789 sdR-r2-00037570.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

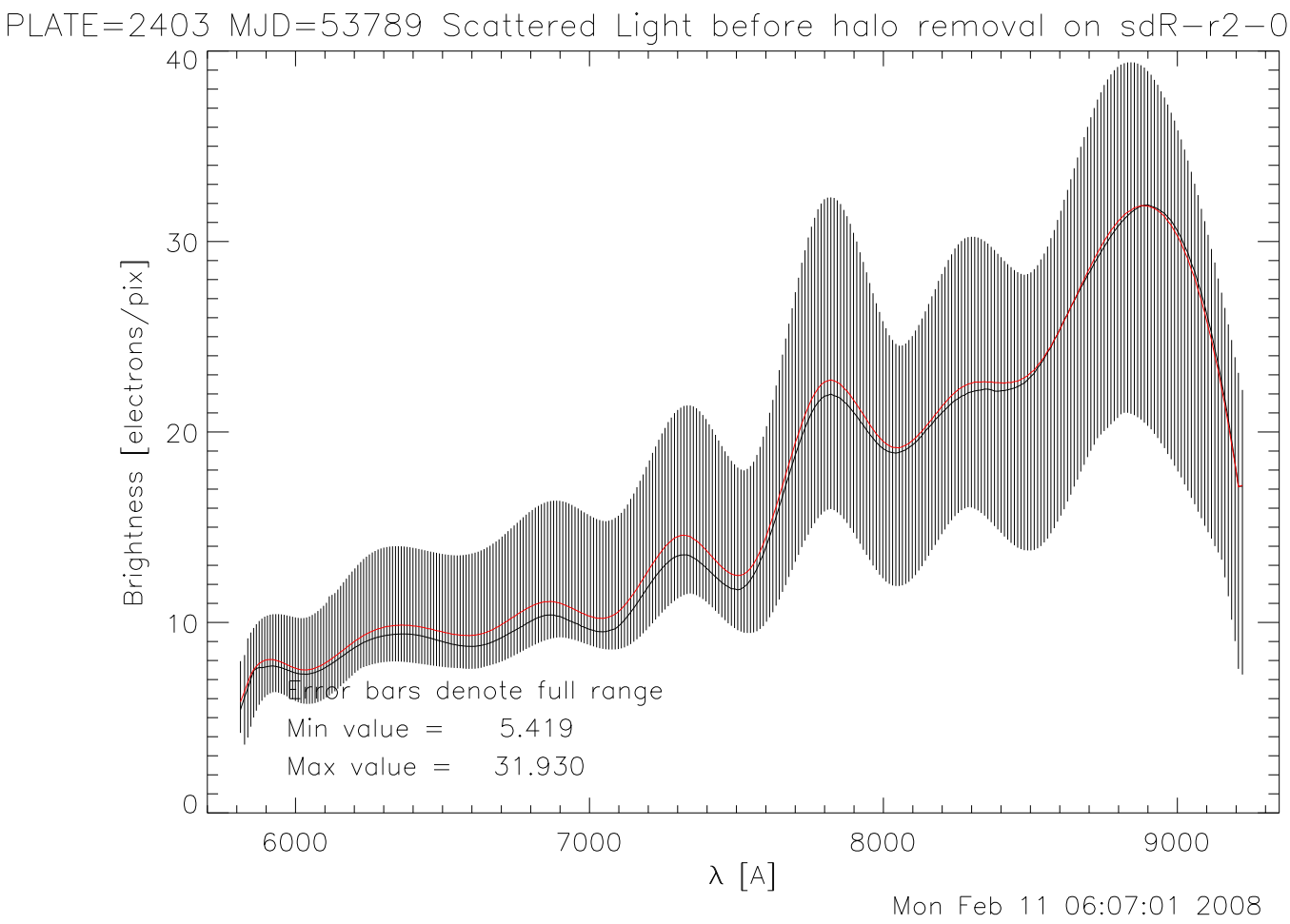

Number of sky fibers = 28
PLATE=2403 MJD=53789 sdR-r2-00037570.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

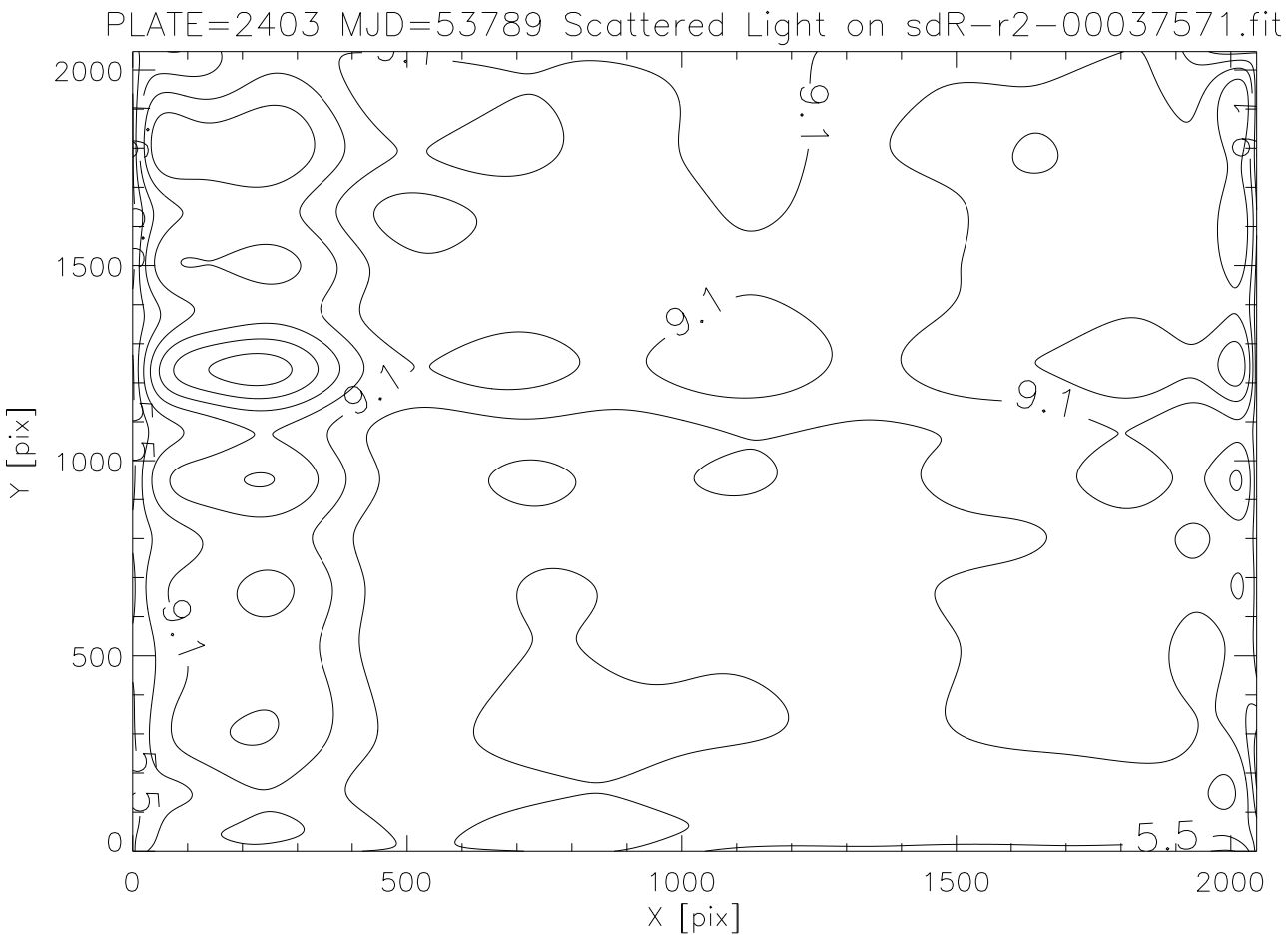

PLATE=2403 MJD=53789 sdR-r2-00037570.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.85 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

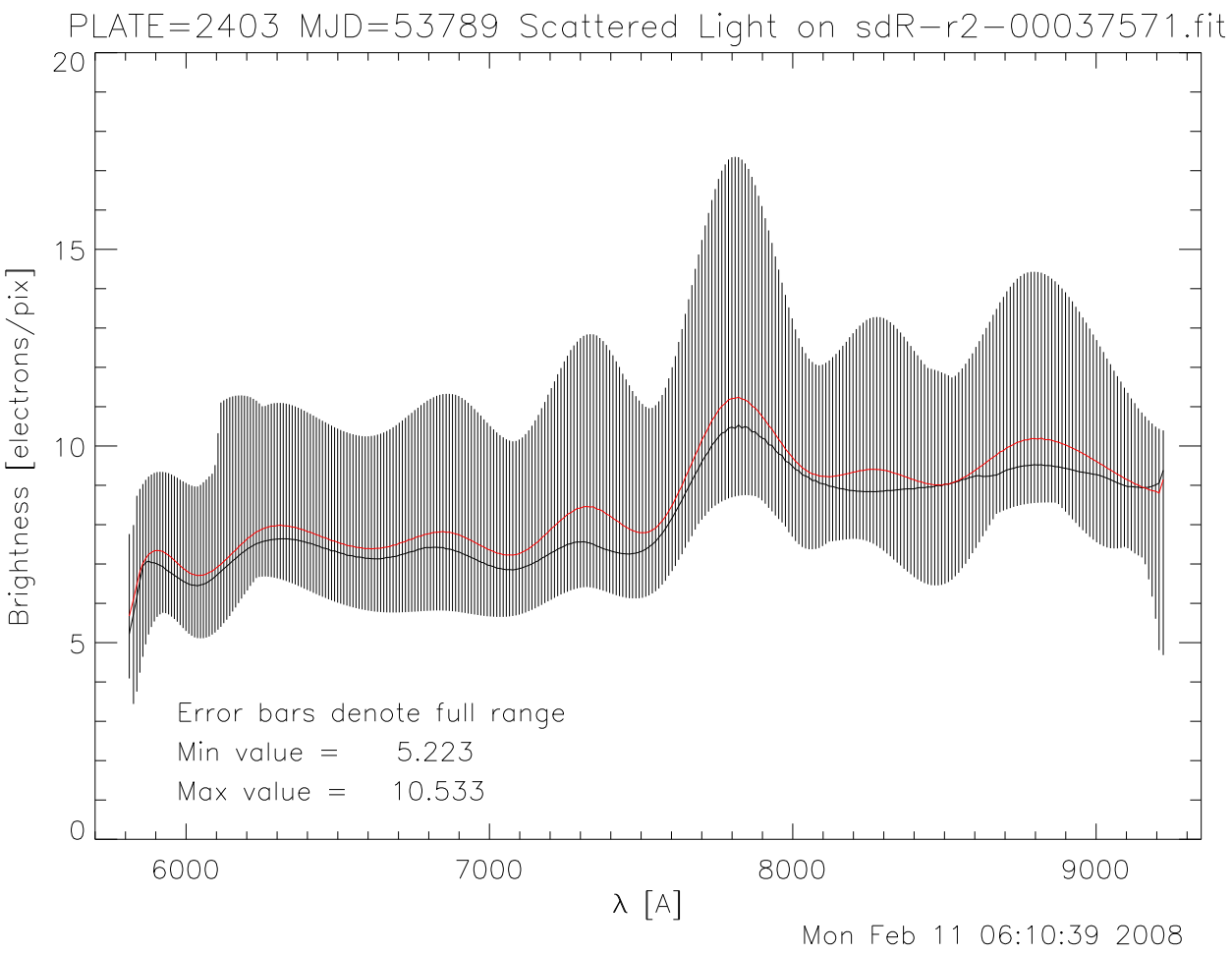

PLATE=2403 MJD=53789 sdR-r2-00037570.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.77 %
Fiber number
Focal Distance [mm]
Airmass

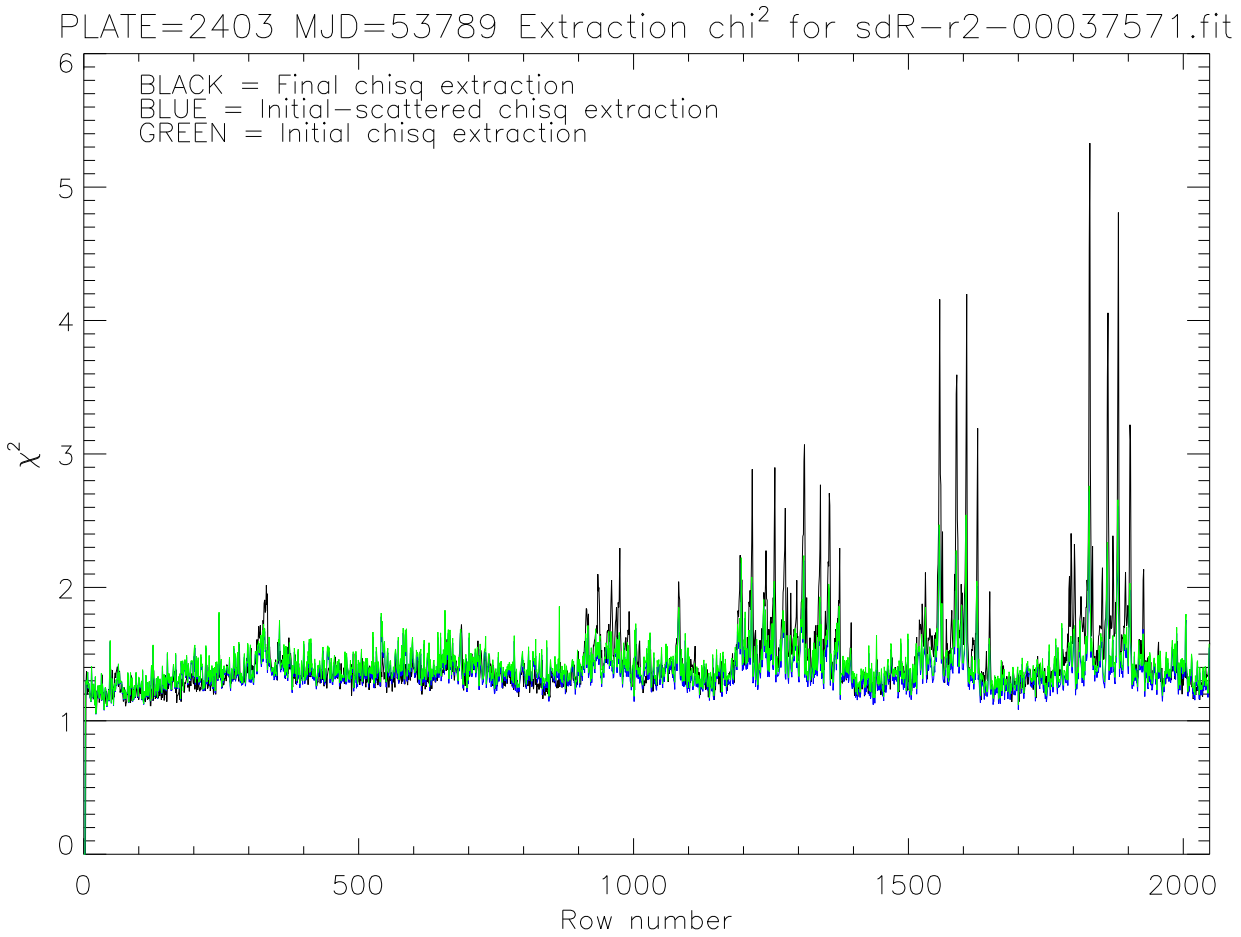

PLATE=2403 MJD=53789 Fiber−Flats for sdR−r2−00037574.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.641
Max value = 1.297
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 11 06:06:01 2008

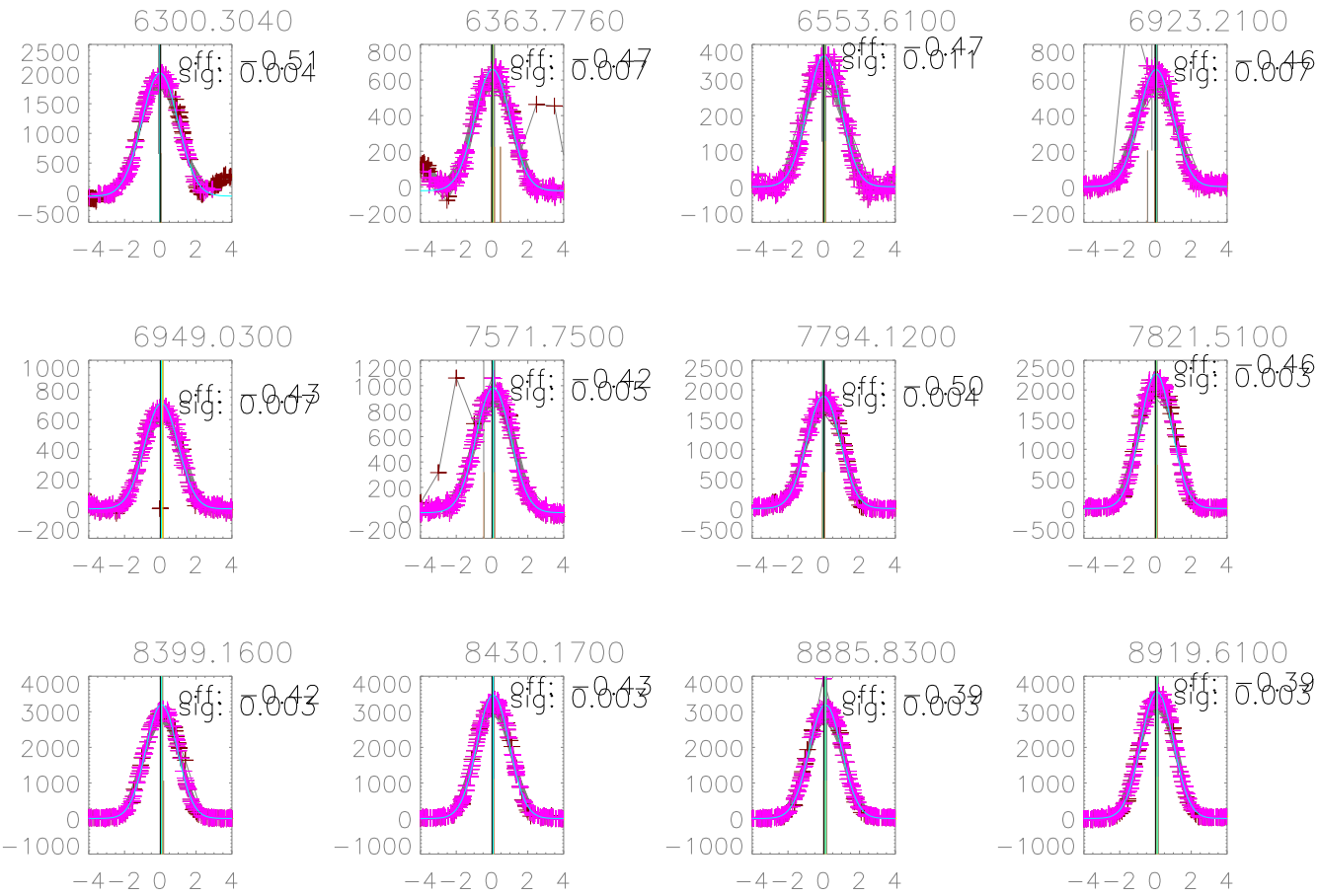

PLATE=2403 MJD=53789 Scattered Light before halo removal on sdR-r2-00037571.fi
25.5
18.2
10.9
Y [pix]
X [pix]
0
500
1000
1500
2000

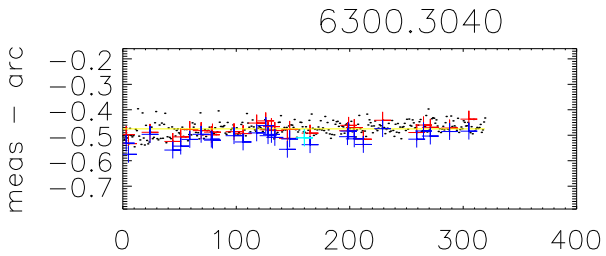

PLATE=2403 MJD=53789 Scattered Light before halo removal on sdR-r2-00037571.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.419
Max value = 31.930
Mon Feb 11 06:07:01 2008

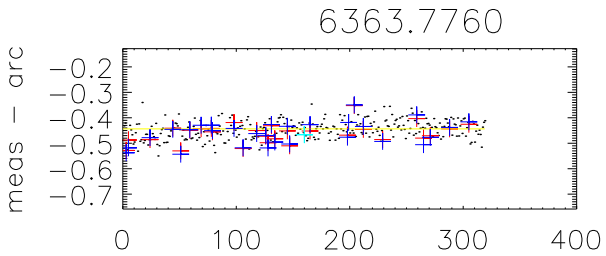

PLATE=2403 MJD=53789 Scattered Light on sdR-r2-00037571.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
9.1
5.5

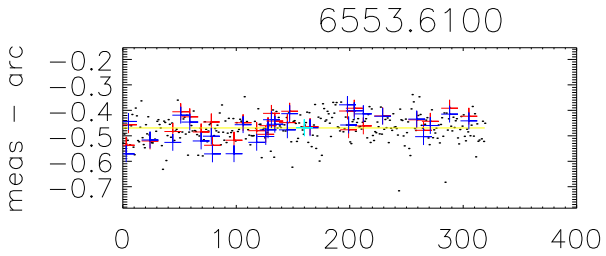

PLATE=2403 MJD=53789 Scattered Light on sdR-r2-00037571.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.223
Max value = 10.533
Mon Feb 11 06:10:39 2008

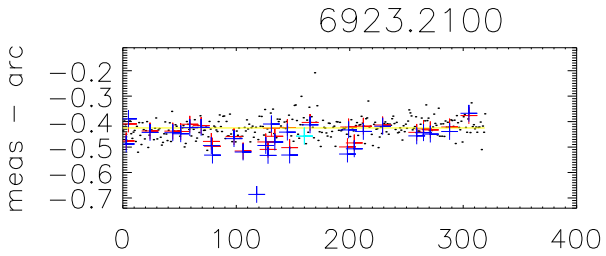

PLATE=2403 MJD=53789 Extraction chi^2 for sdR−r2−00037571.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

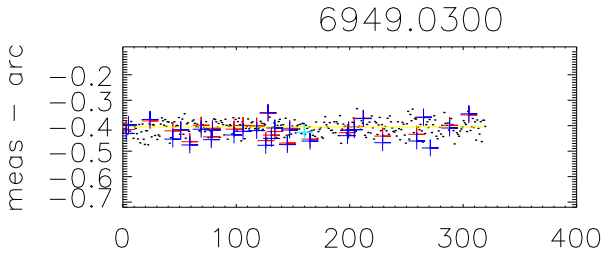

6300.3040
off: −0.51
sig: 0.004
6363.7760
off: −0.47
sig: 0.007
6553.6100
off: −0.47
sig: 0.011
6923.2100
off: −0.46
sig: 0.007
6949.0300
off: −0.43
sig: 0.007
7571.7500
off: −0.42
sig: 0.005
7794.1200
off: −0.50
sig: 0.004
7821.5100
off: −0.46
sig: 0.003
8399.1600
off: −0.42
sig: 0.003
8430.1700
off: −0.43
sig: 0.003
8885.8300
off: −0.39
sig: 0.003
8919.6100
off: −0.39
sig: 0.003

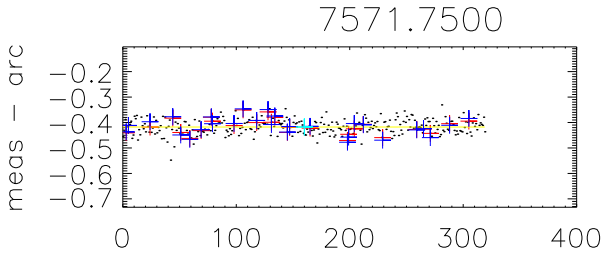

6300.3040
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

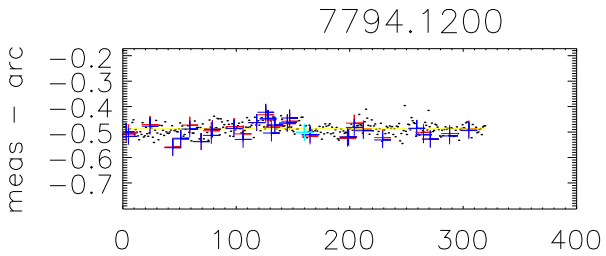

6363.7760
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

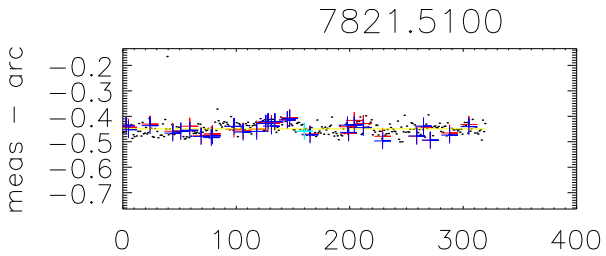

6553.6100
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

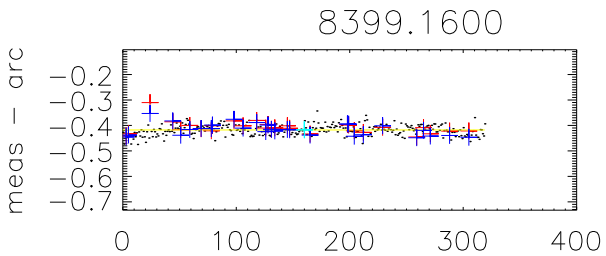

6923.2100
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

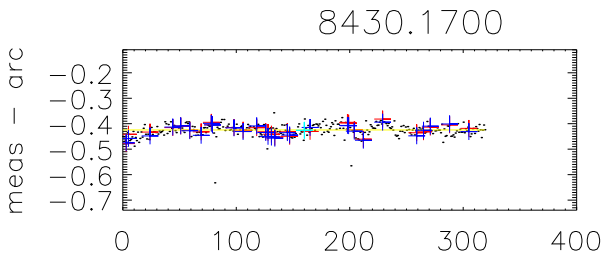

6949.0300
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

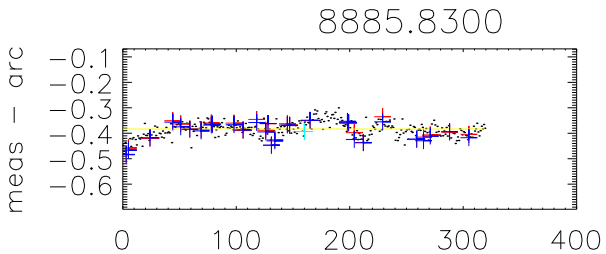

7571.7500
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

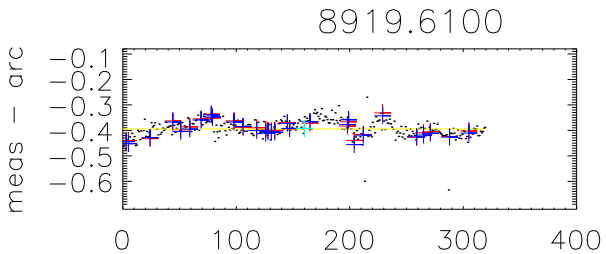

7794.1200
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

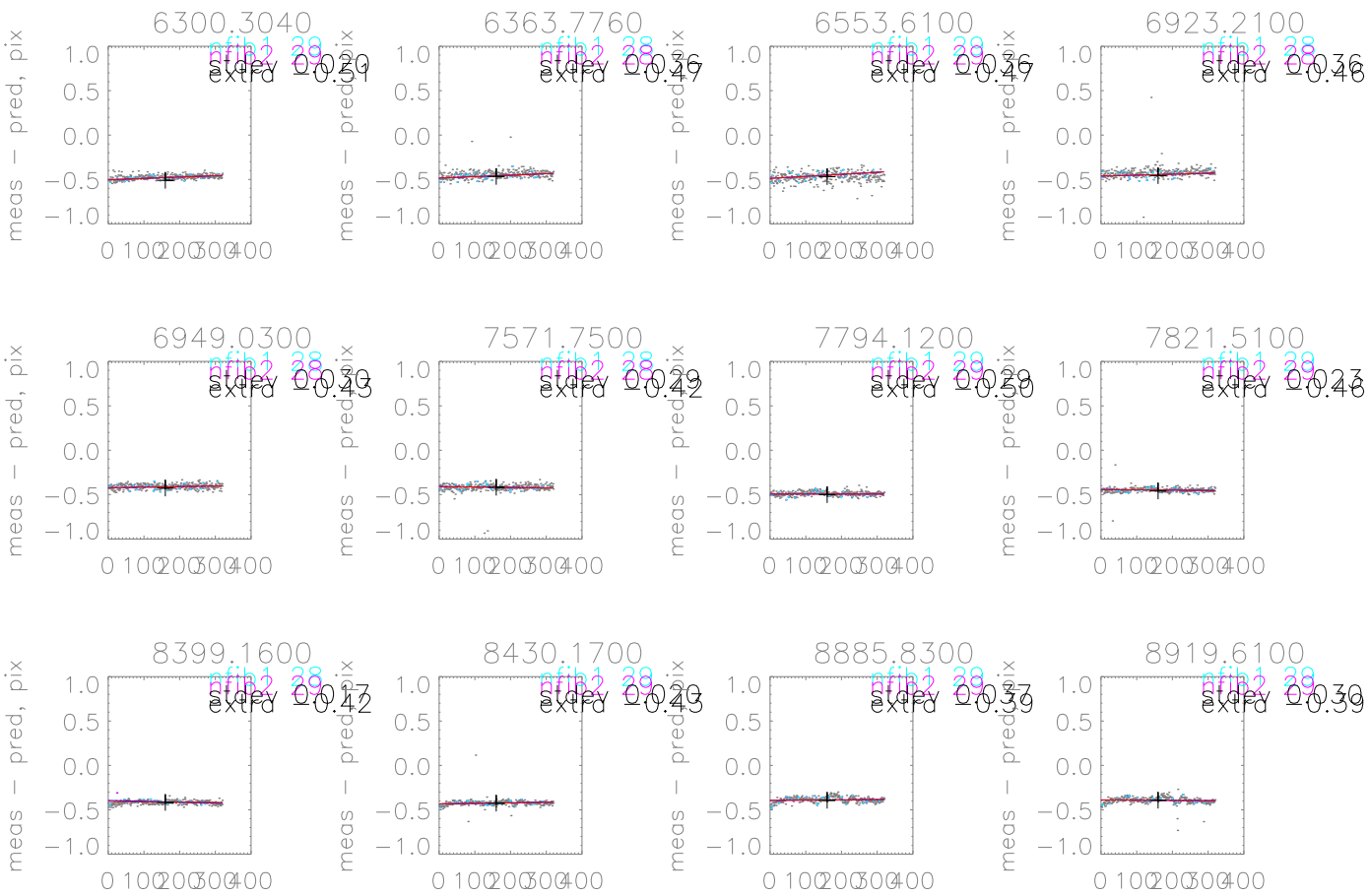

7821.5100
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

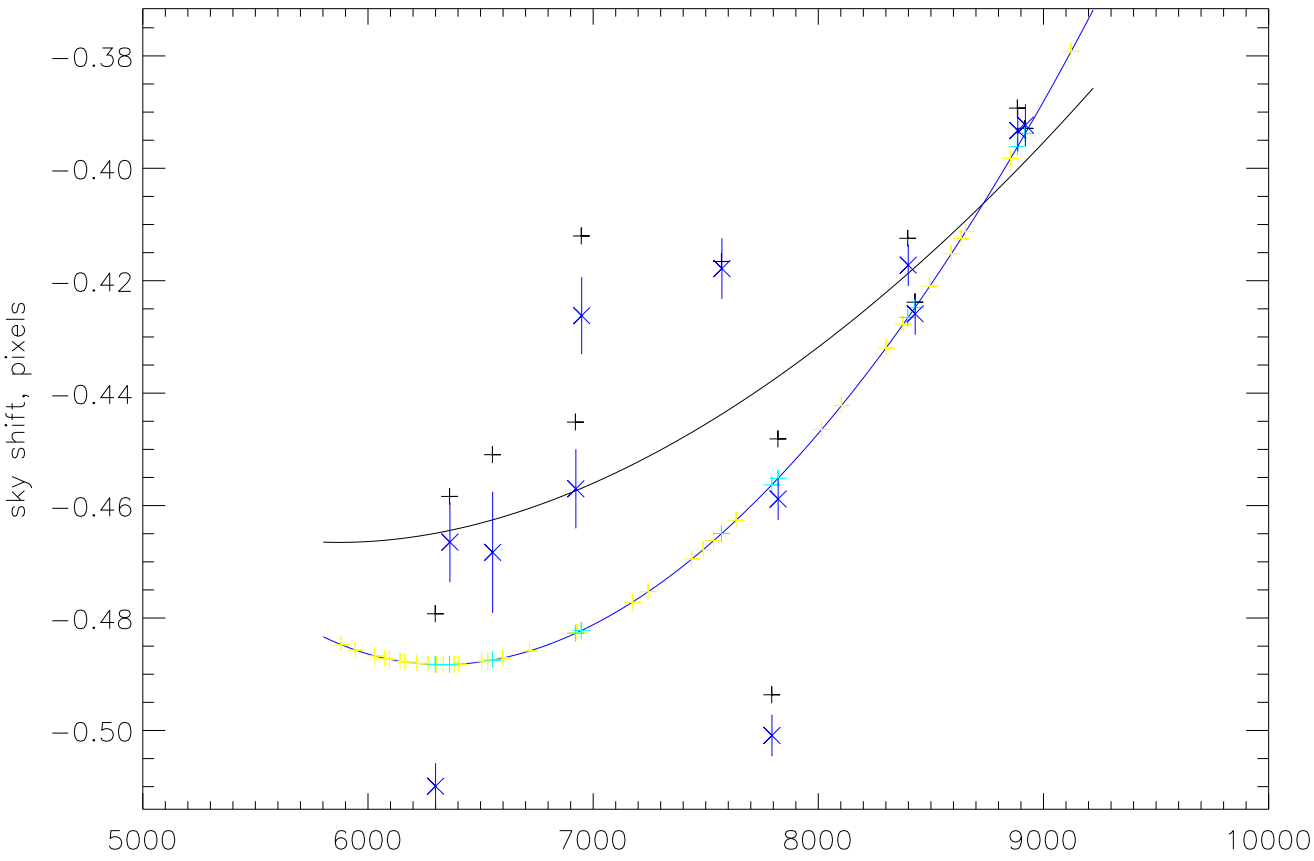

8399.1600
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400


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

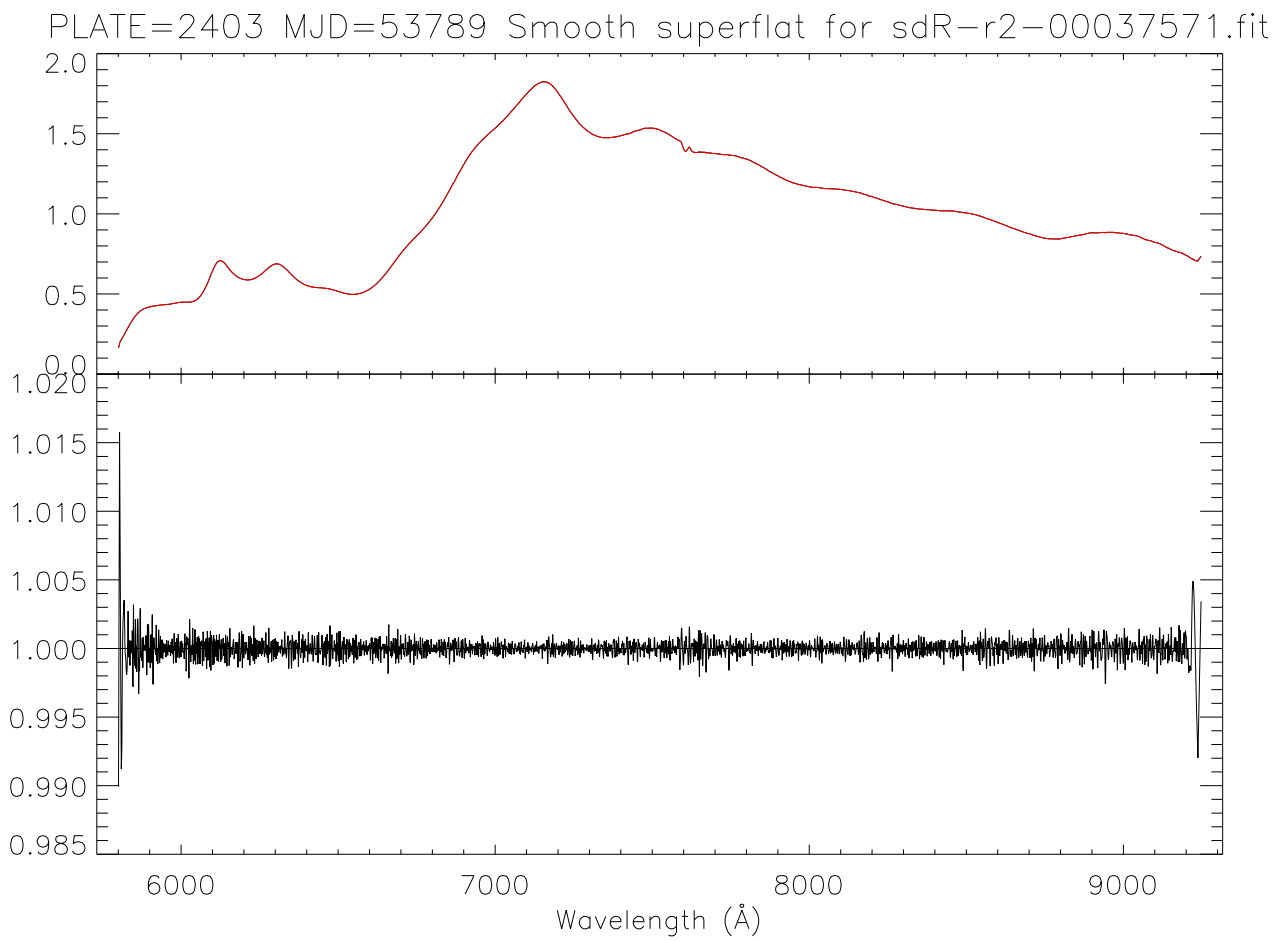

8885.8300
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

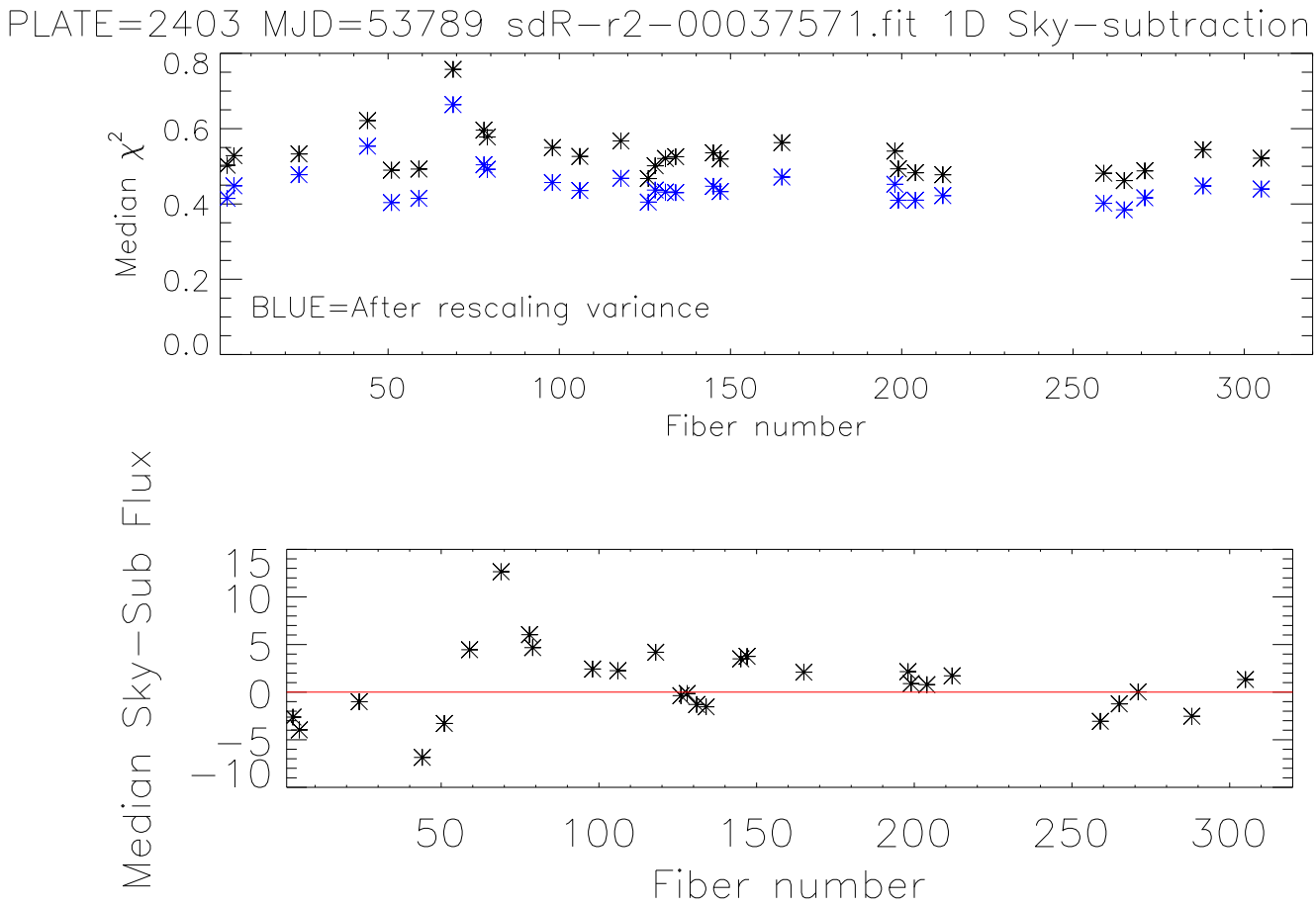

8919.6100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

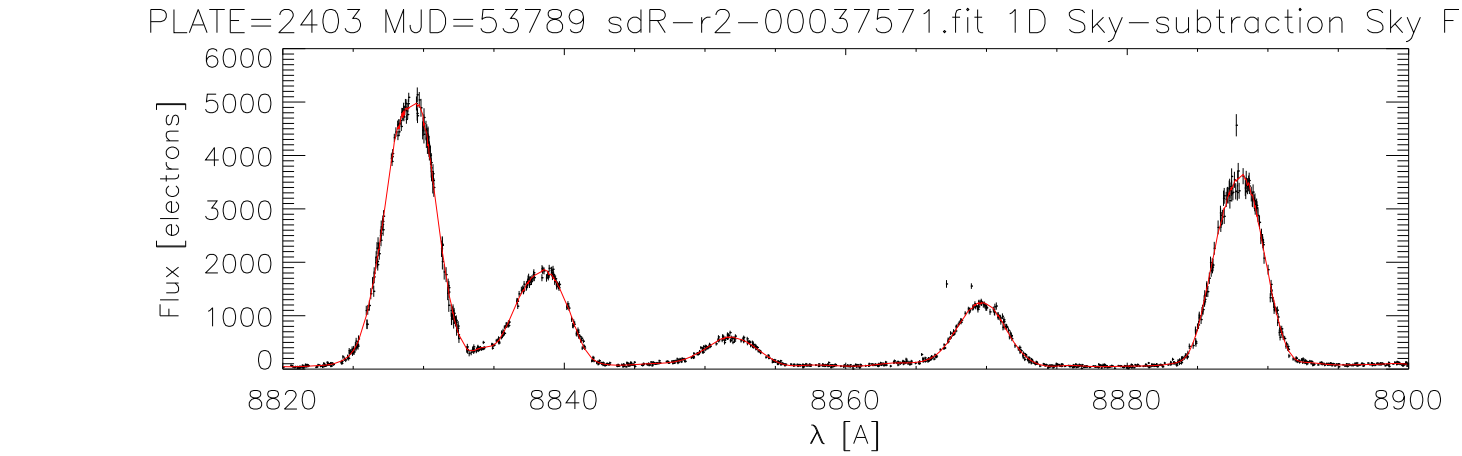

6300.3040
6363.7760
6553.6100
6923.2100
6949.0300
7571.7500
7794.1200
7821.5100
8399.1600
8430.1700
8885.8300
8919.6100
meas − pred, pix
mfhd1 28
mfhd2 28
stdev 0.20
extrd 0.51
stdev 0.36
extrd 0.47
stdev 0.36
extrd 0.47
stdev 0.36
extrd 0.46
stdev 0.30
extrd 0.43
stdev 0.29
extrd 0.42
stdev 0.29
extrd 0.50
stdev 0.23
extrd 0.46
stdev 0.17
extrd 0.42
stdev 0.20
extrd 0.43
stdev 0.37
extrd 0.39
stdev 0.30
extrd 0.39

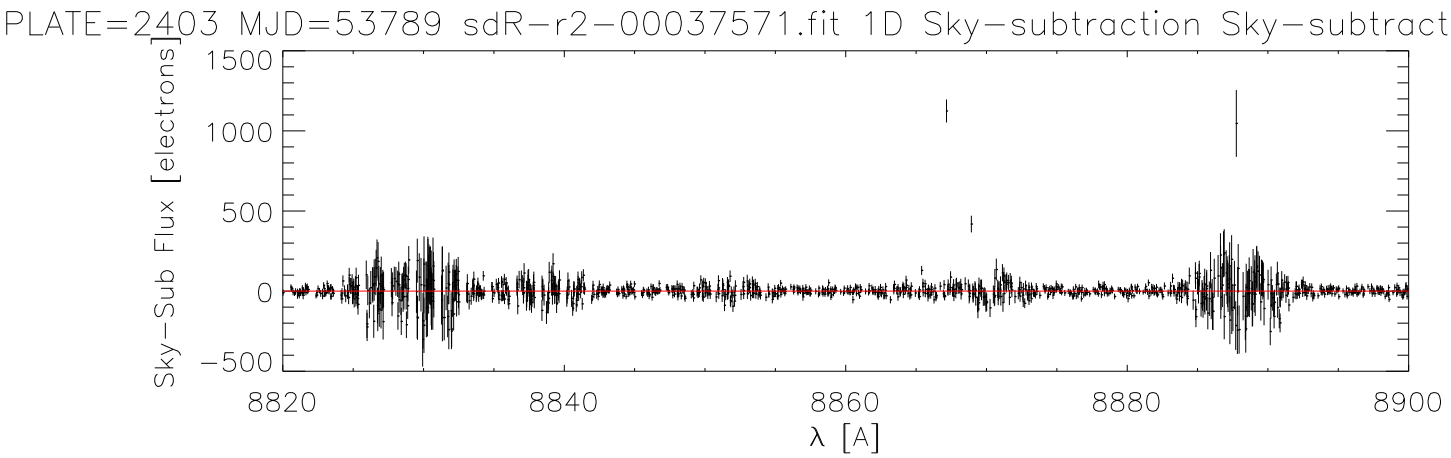

−0.38
−0.40
−0.42
−0.44
−0.46
−0.48
−0.50
sky shift, pixels
5000
6000
7000
8000
9000
10000

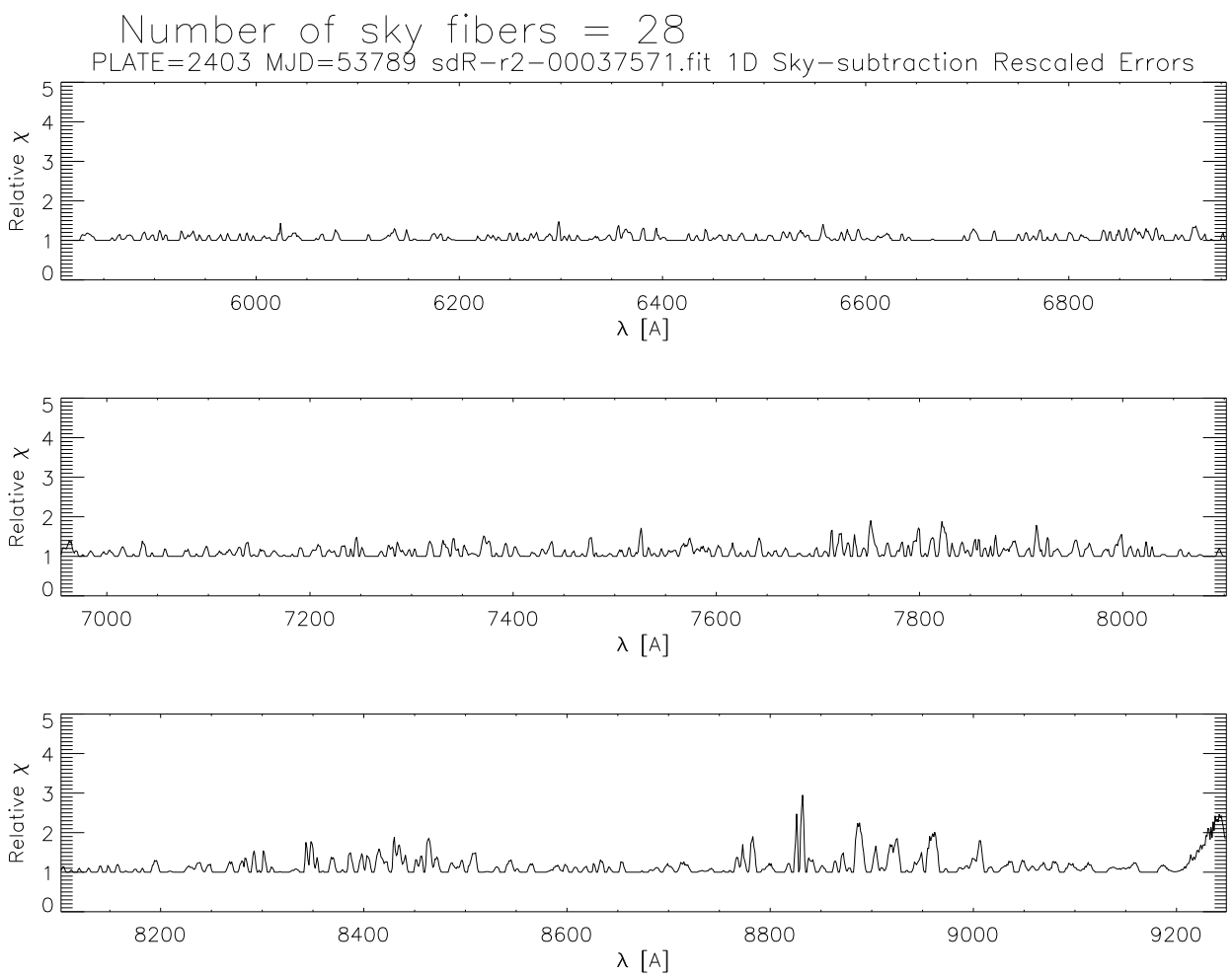
es= −0.0000

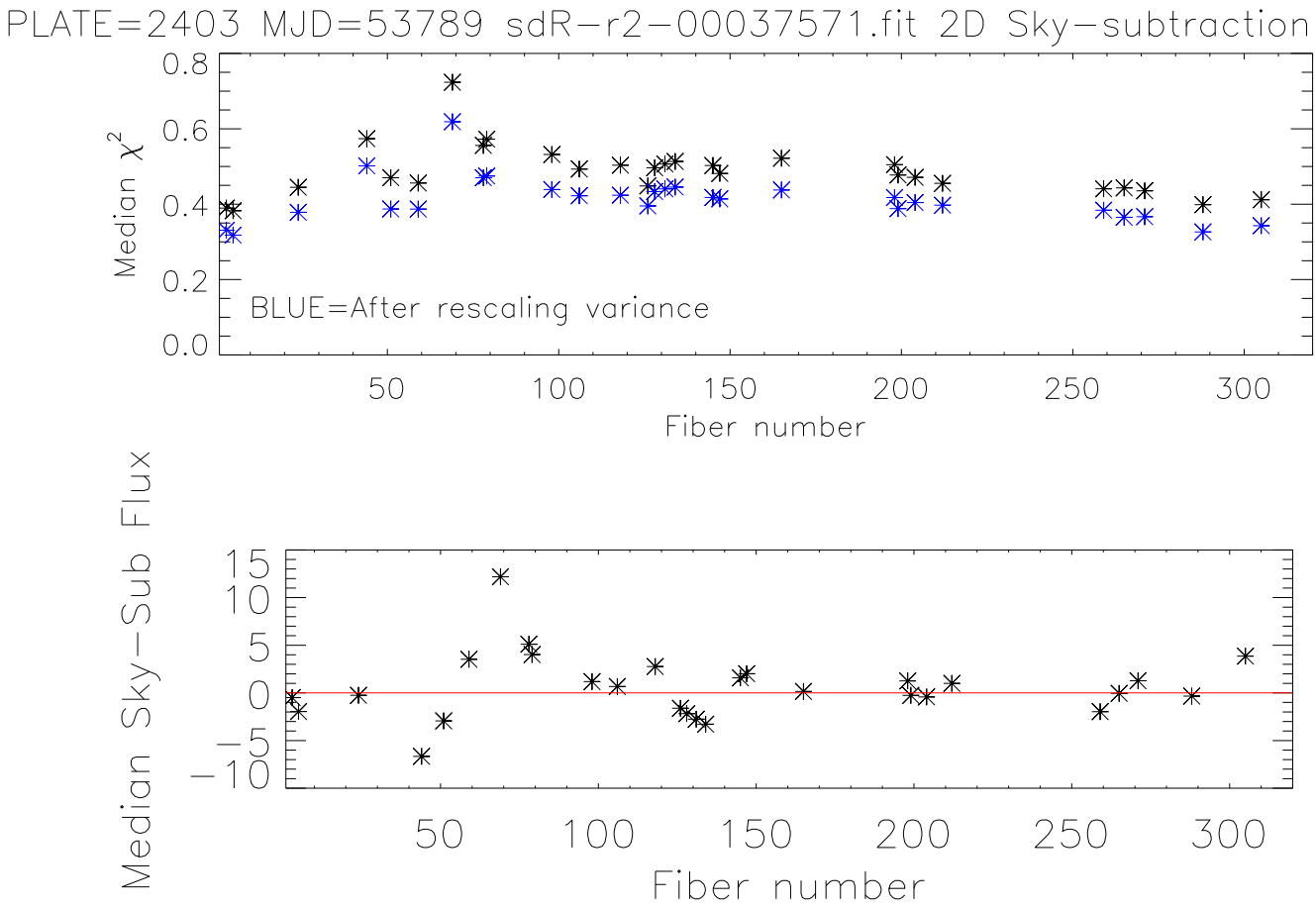

PLATE=2403 MJD=53789 Smooth superflat for sdR−r2−00037571.fit
2.0
1.5
1.0
0.5
0.0
1.020
1.015
1.010
1.005
1.000
0.995
0.990
0.985
6000
7000
8000
9000
Wavelength (Å)

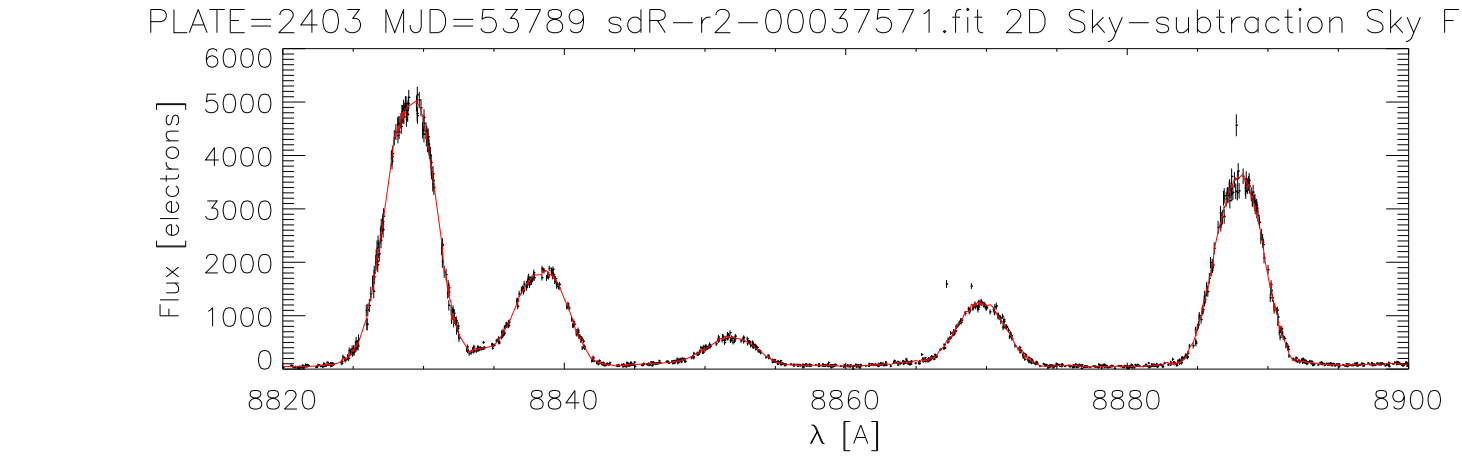

PLATE=2403 MJD=53789 sdR-r2-00037571.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
15
10
5
0
-5
-10
50
100
150
200
250
300
Fiber number

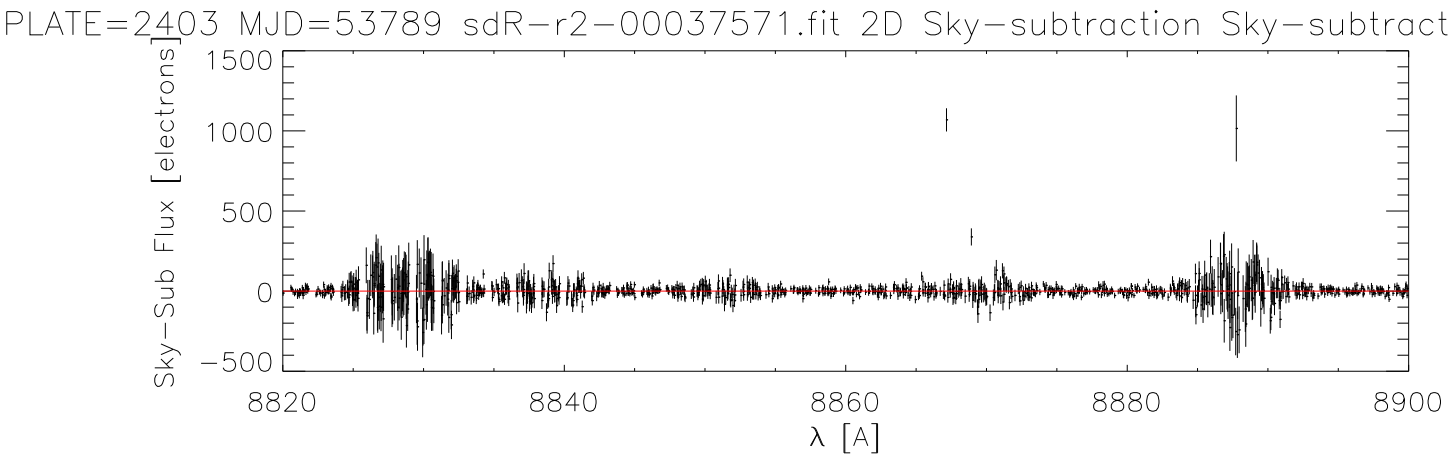

PLATE=2403 MJD=53789 sdR-r2-00037571.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

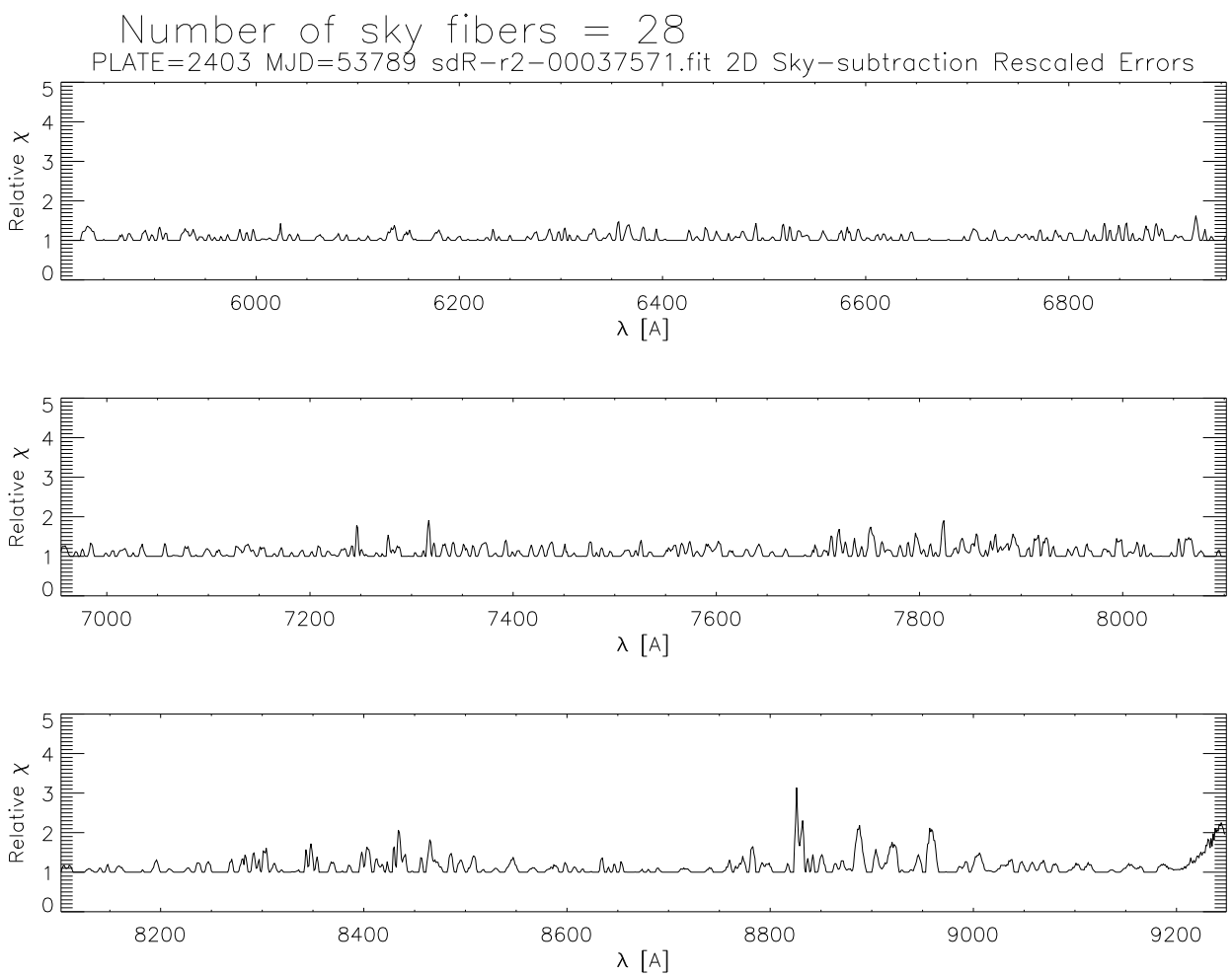

PLATE=2403 MJD=53789 sdR-r2-00037571.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

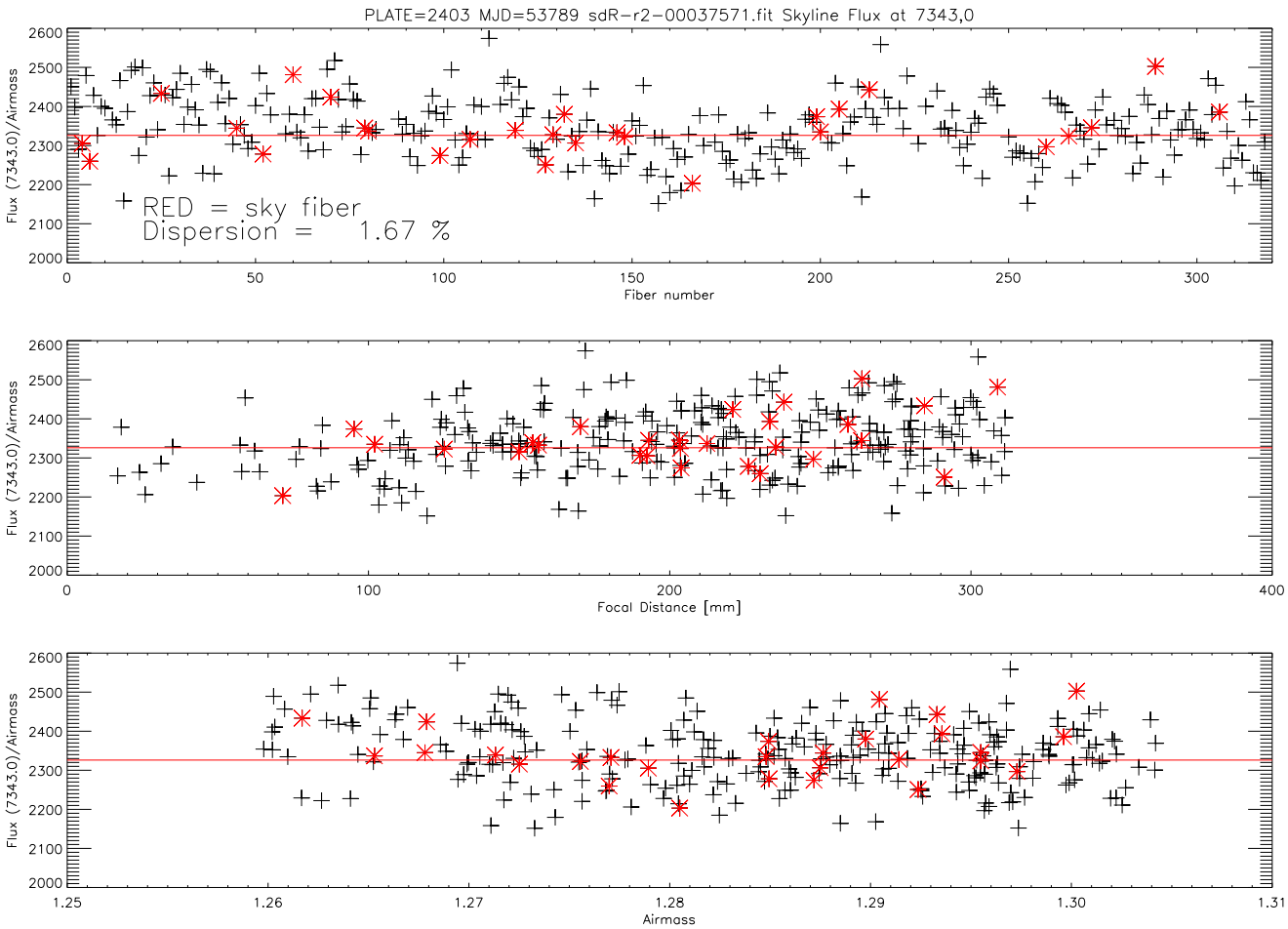

Number of sky fibers = 28
PLATE=2403 MJD=53789 sdR-r2-00037571.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

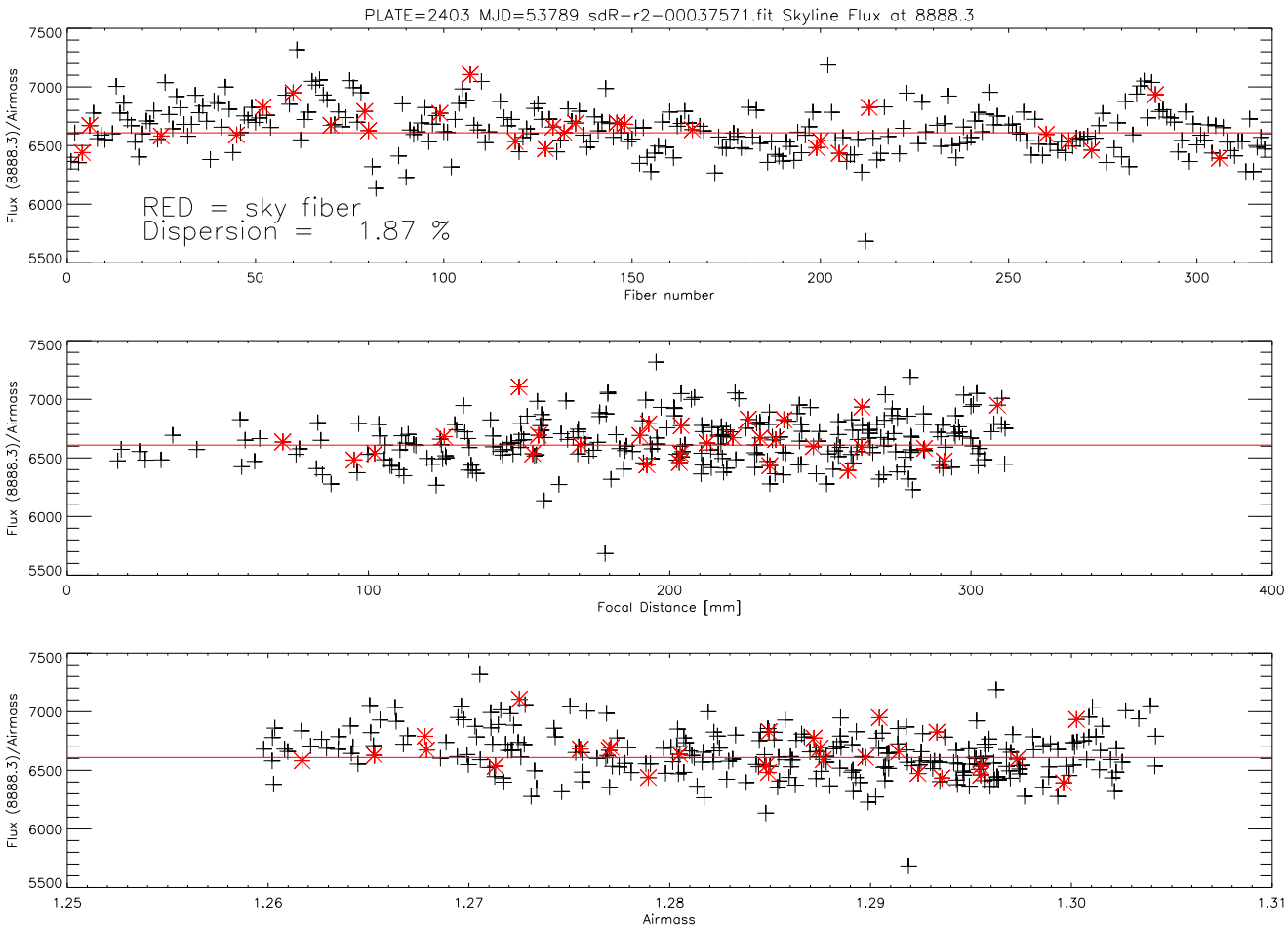

PLATE=2403 MJD=53789 sdR-r2-00037571.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
15
10
5
0
-5
-10
50
100
150
200
250
300
Fiber number

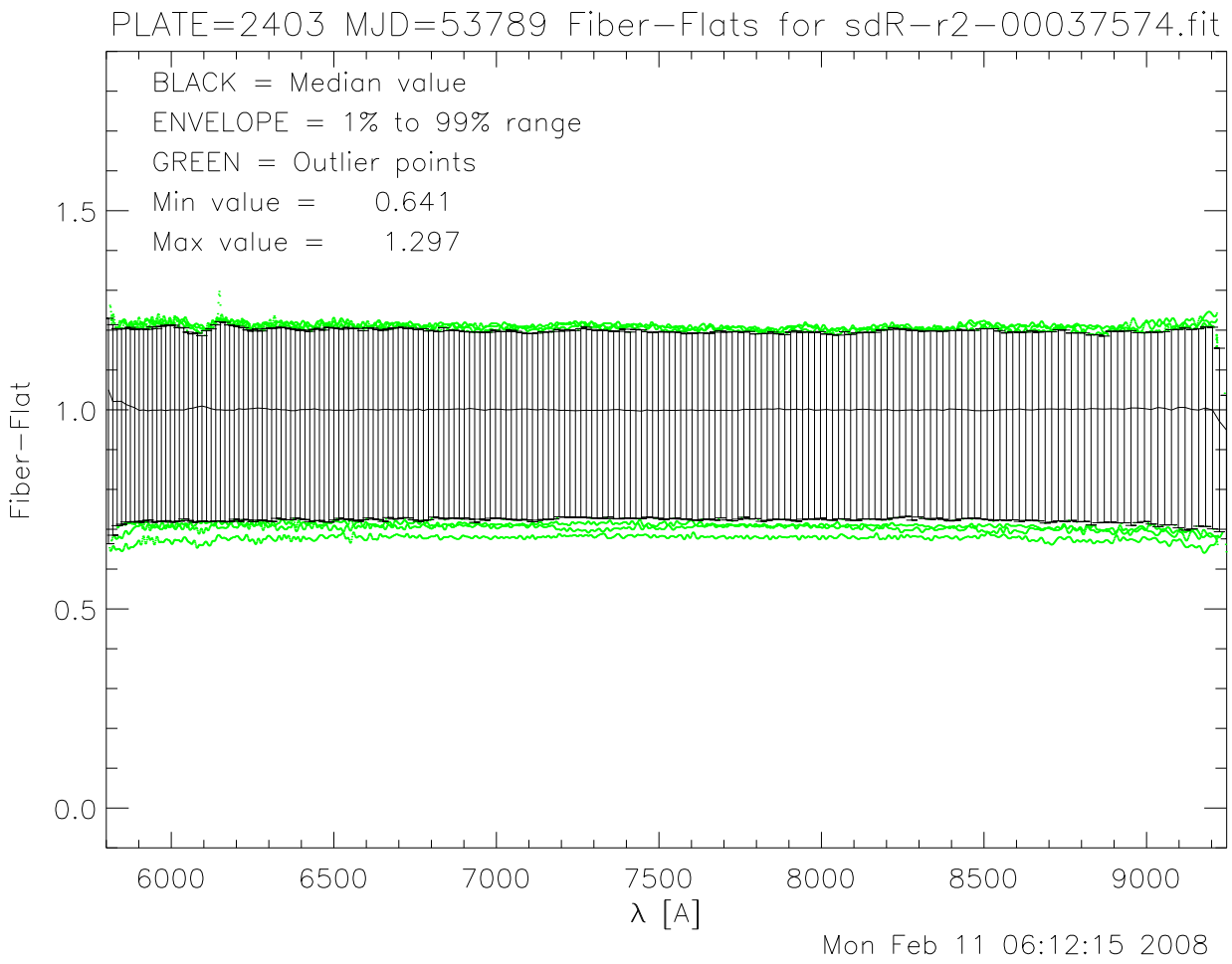

PLATE=2403 MJD=53789 sdR-r2-00037571.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

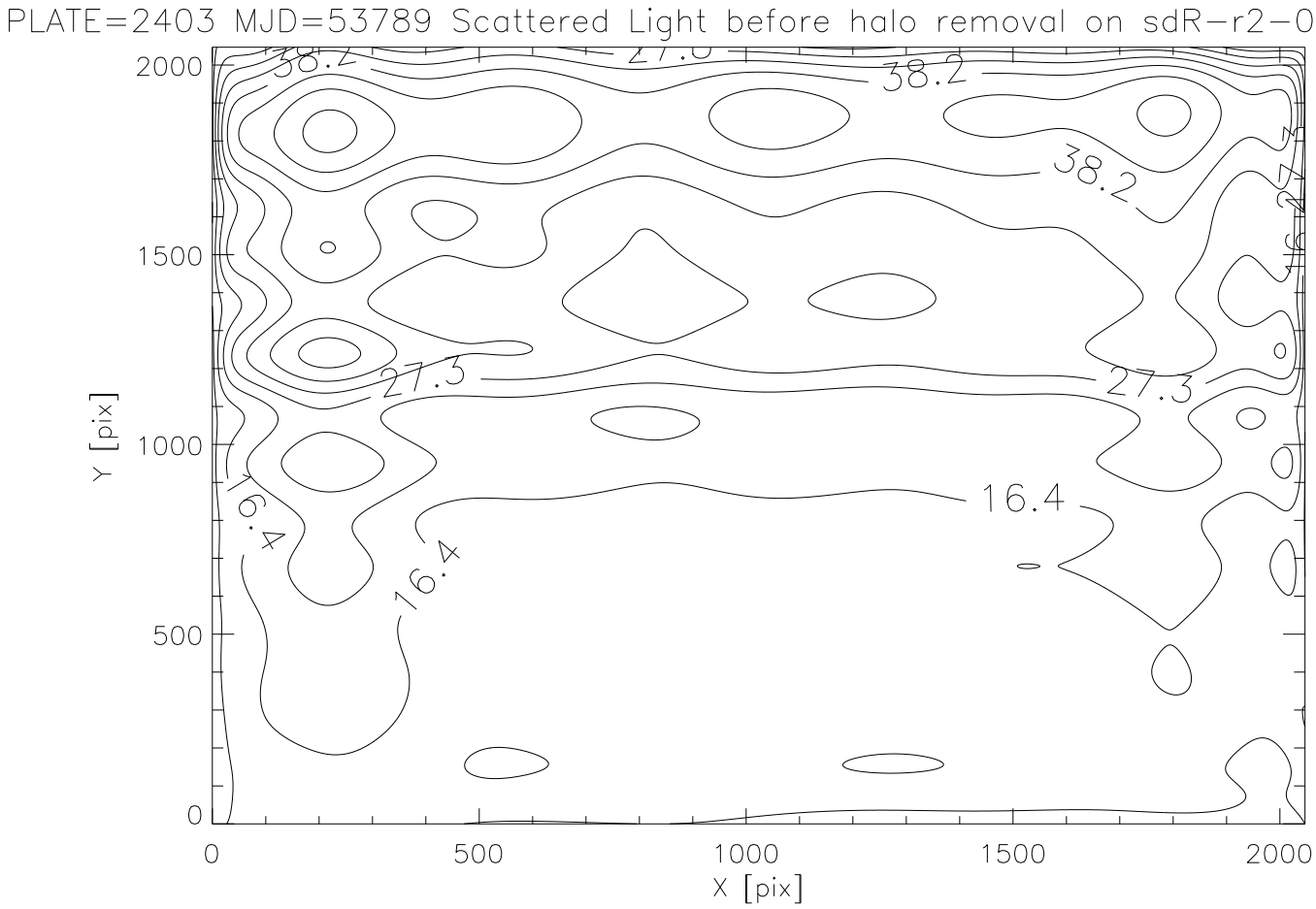

PLATE=2403 MJD=53789 sdR-r2-00037571.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

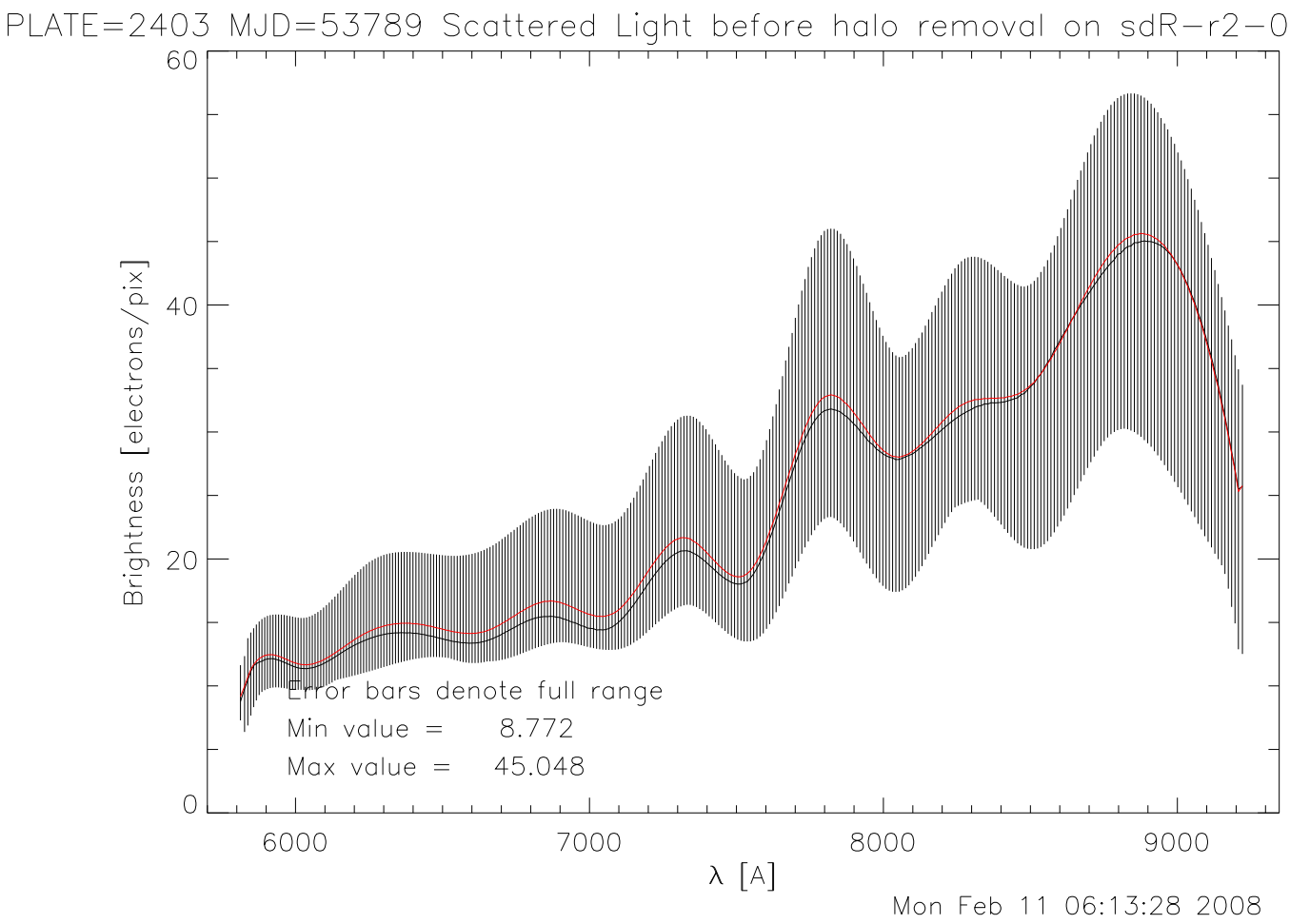

Number of sky fibers = 28
PLATE=2403 MJD=53789 sdR-r2-00037571.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

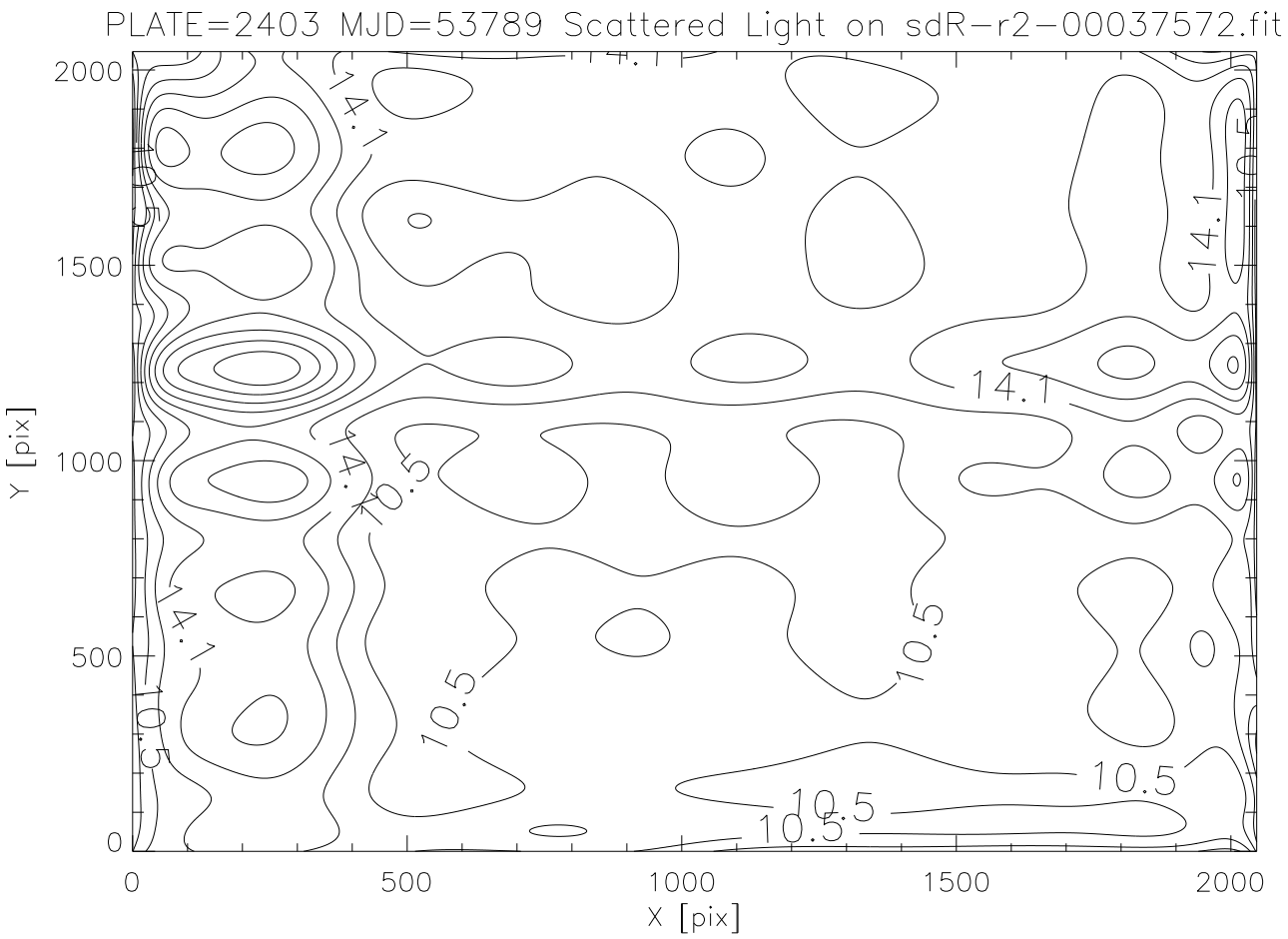

PLATE=2403 MJD=53789 sdR-r2-00037571.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 1.67 %
Fiber number
Focal Distance [mm]
Airmass

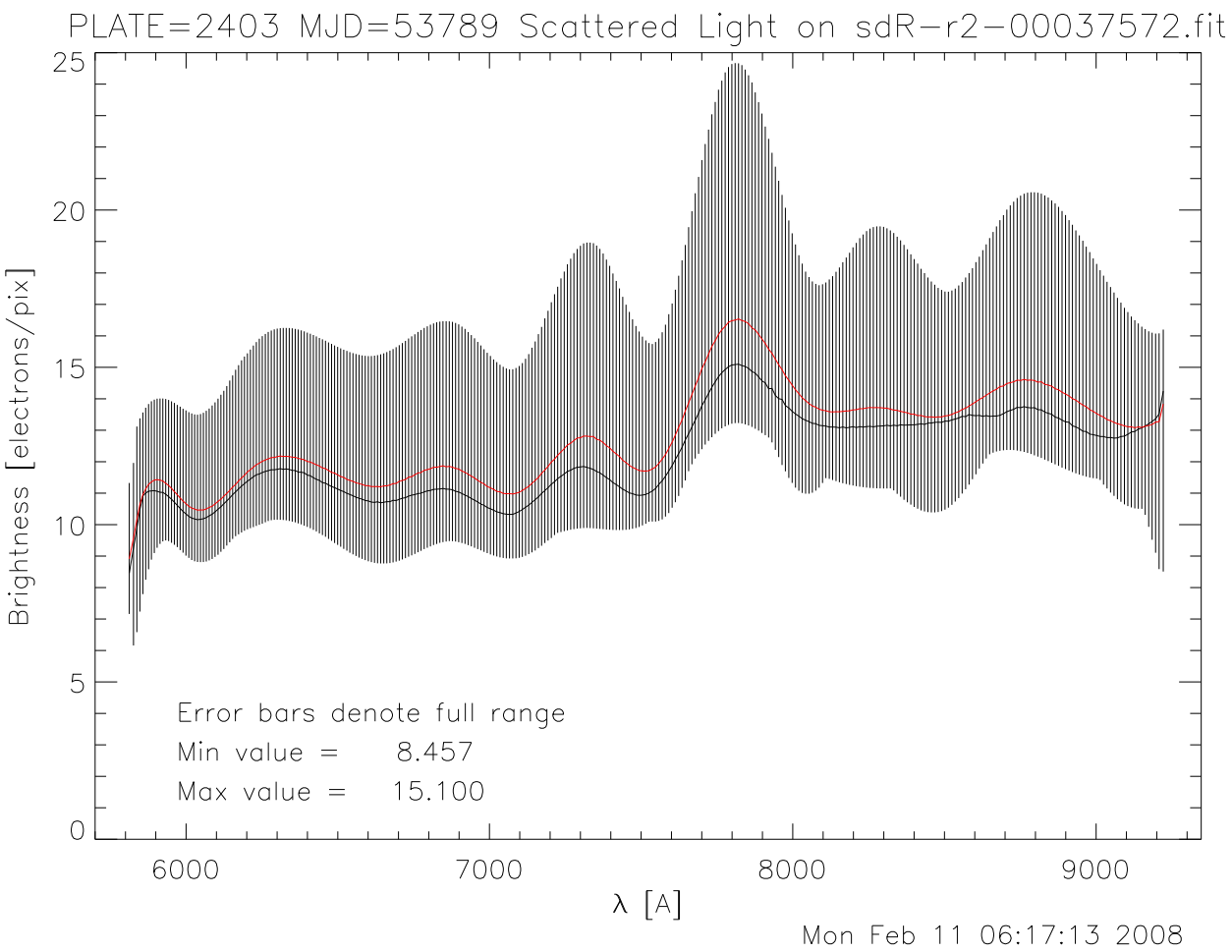

PLATE=2403 MJD=53789 sdR-r2-00037571.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.87 %
Fiber number
Focal Distance [mm]
Airmass

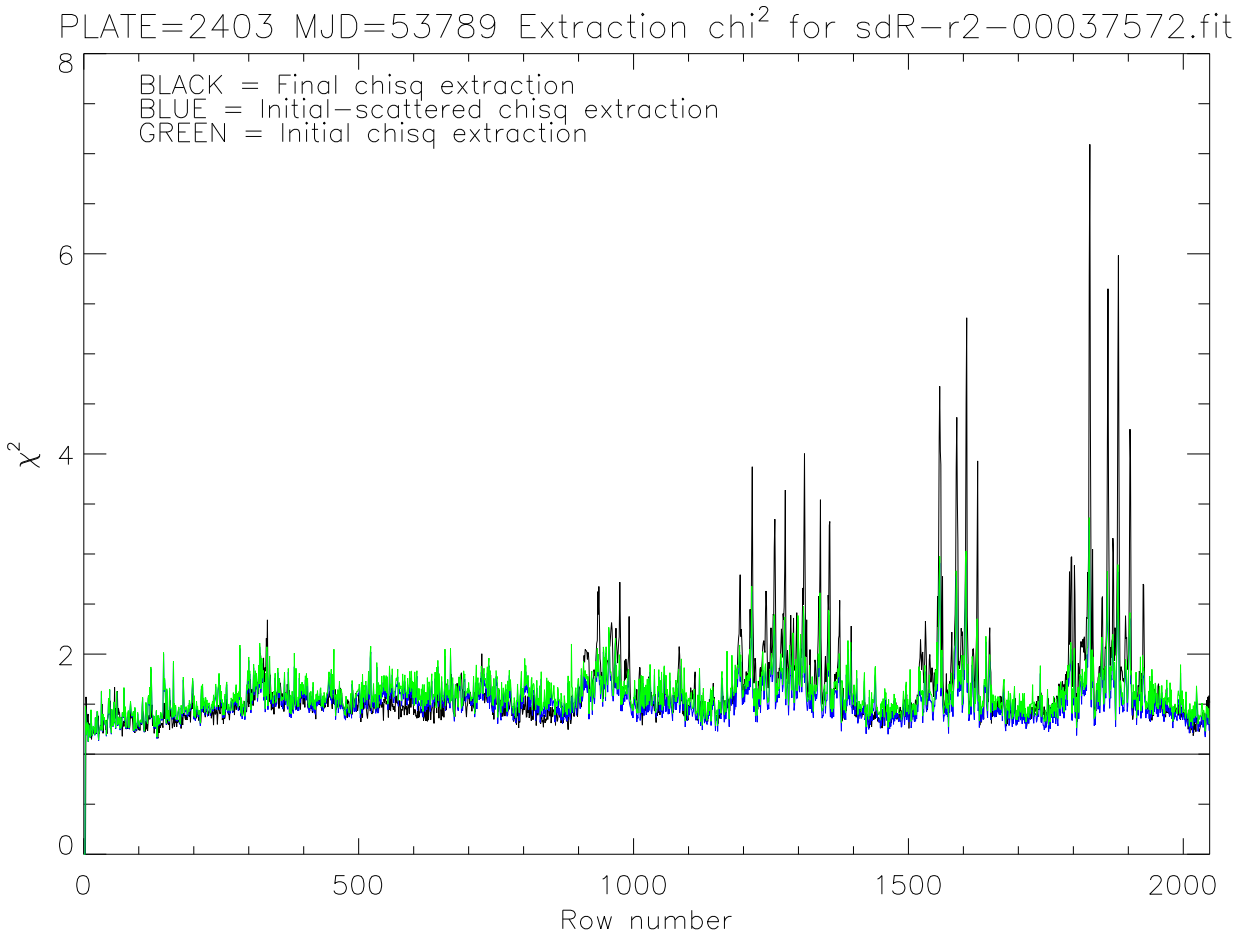

PLATE=2403 MJD=53789 Fiber−Flats for sdR−r2−00037574.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.641
Max value = 1.297
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 11 06:12:15 2008

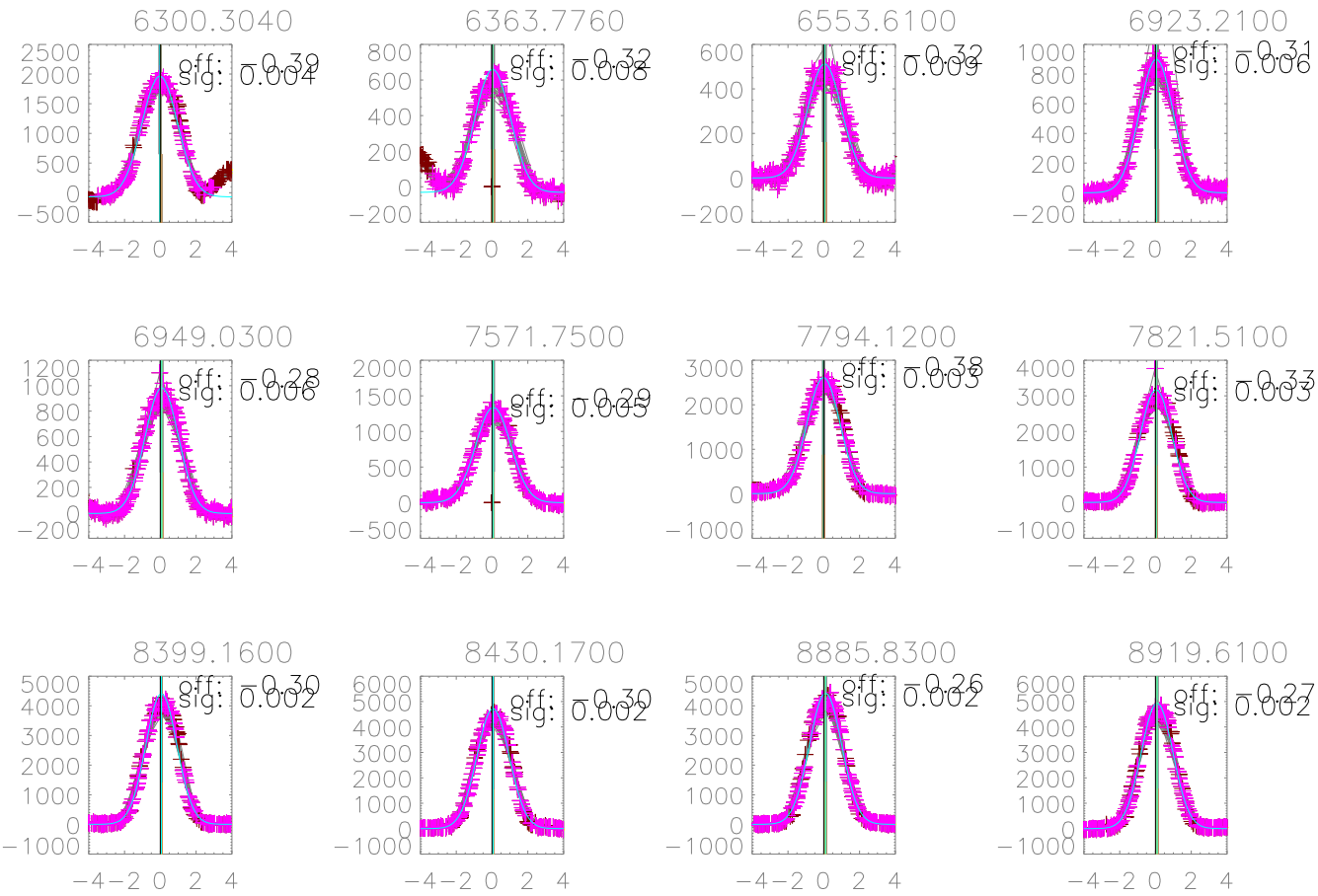

PLATE=2403 MJD=53789 Scattered Light before halo removal on sdR-r2-00037572.fi
38.2
38.2
38.2
27.3
27.3
16.4
16.4
16.4
Y [pix]
X [pix]
0
500
1000
1500
2000

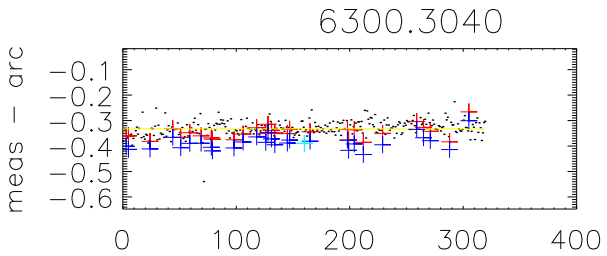

PLATE=2403 MJD=53789 Scattered Light before halo removal on sdR-r2-00037572.fi
Brightness [electrons/pix]
60
40
20
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 8.772
Max value = 45.048
Mon Feb 11 06:13:28 2008

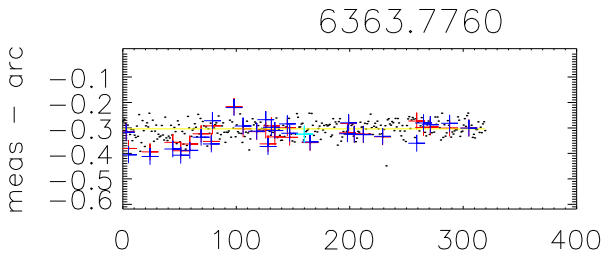

PLATE=2403 MJD=53789 Scattered Light on sdR-r2-00037572.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
14.1
10.5

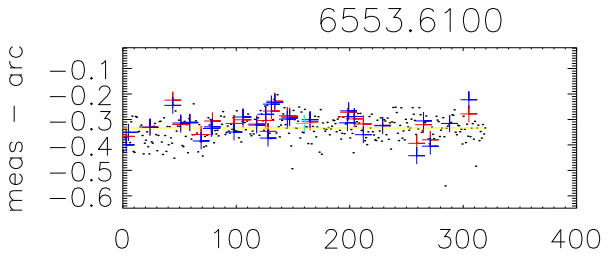

PLATE=2403 MJD=53789 Scattered Light on sdR-r2-00037572.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 8.457
Max value = 15.100
Mon Feb 11 06:17:13 2008

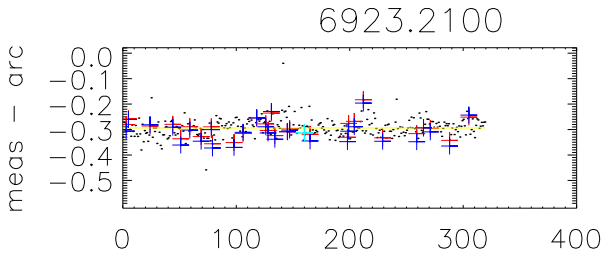

PLATE=2403 MJD=53789 Extraction chi^2 for sdR−r2−00037572.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

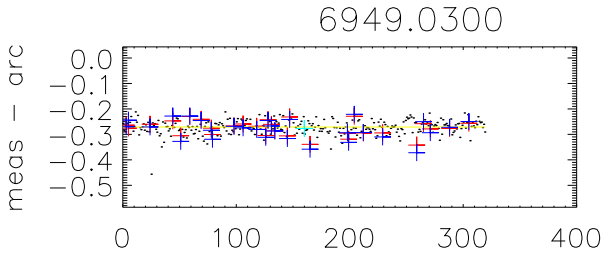

6300.3040
off: −0.39
sig: 0.004
6363.7760
off: −0.32
sig: 0.008
6553.6100
off: −0.32
sig: 0.009
6923.2100
off: −0.31
sig: 0.006
6949.0300
off: −0.28
sig: 0.006
7571.7500
off: −0.29
sig: 0.005
7794.1200
off: −0.38
sig: 0.003
7821.5100
off: −0.33
sig: 0.003
8399.1600
off: −0.30
sig: 0.002
8430.1700
off: −0.30
sig: 0.002
8885.8300
off: −0.26
sig: 0.002
8919.6100
off: −0.27
sig: 0.002

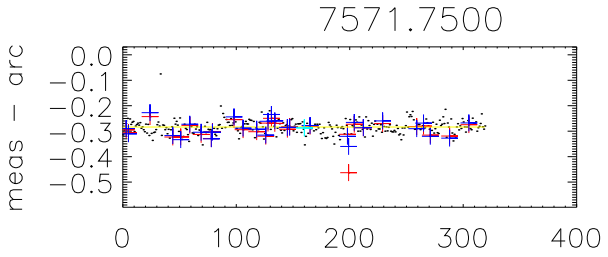

6300.3040
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

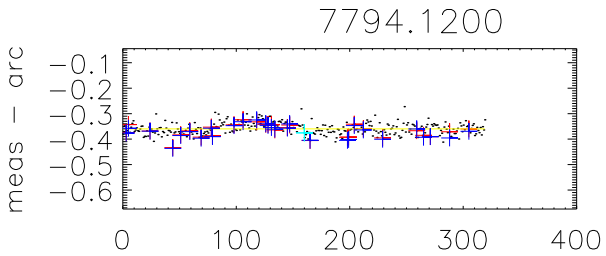

6363.7760
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

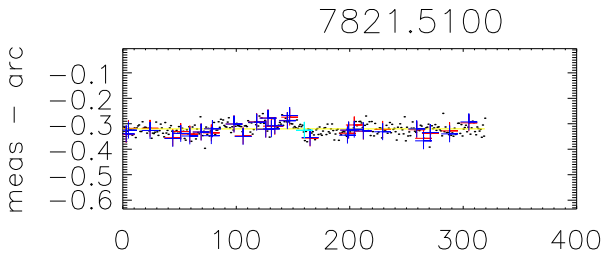

6553.6100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

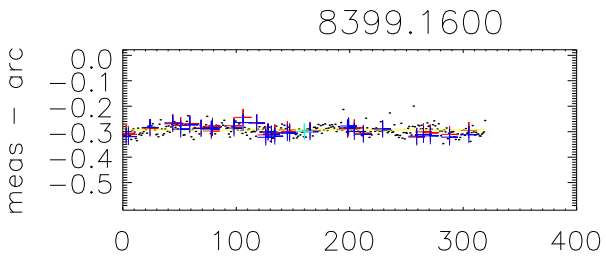

6923.2100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

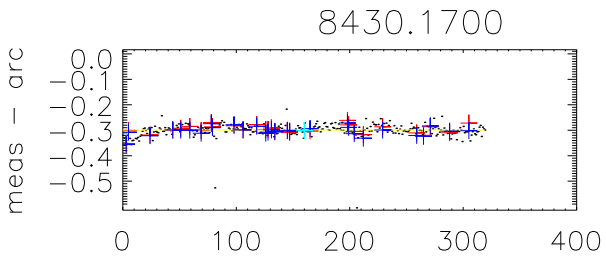

6949.0300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

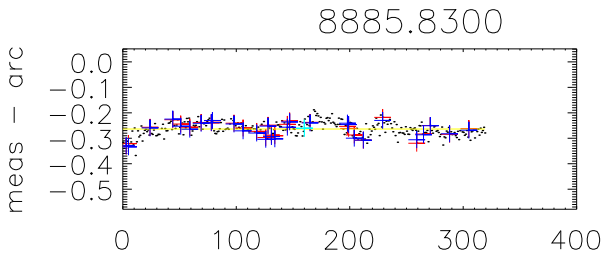

7571.7500
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

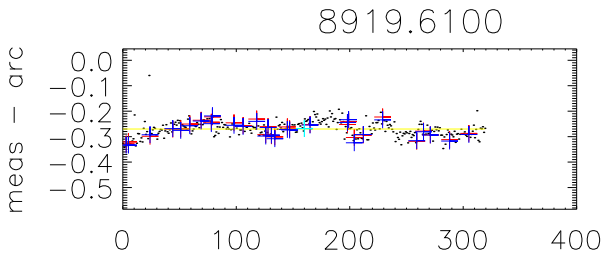

7794.1200
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

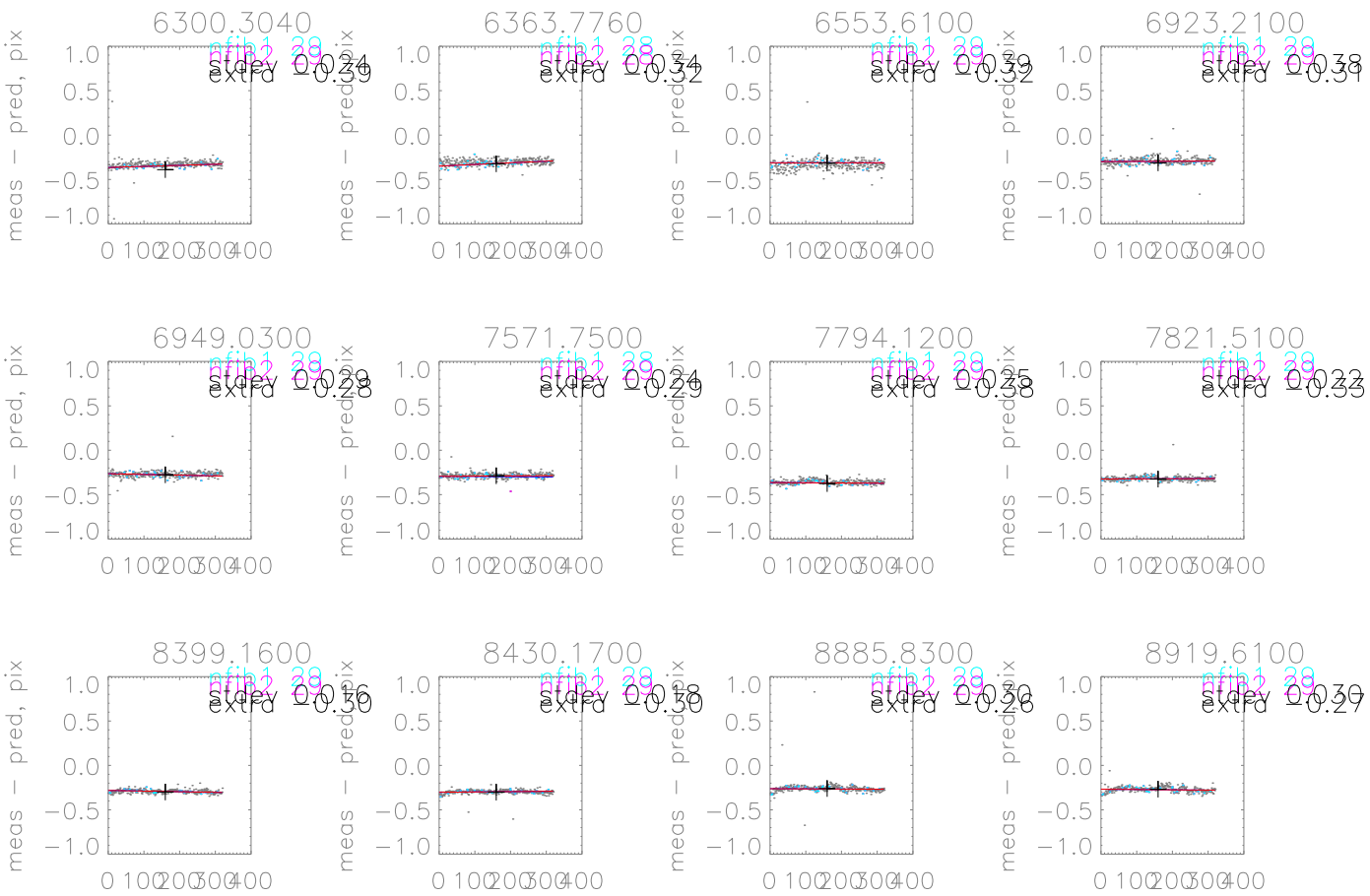

7821.5100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

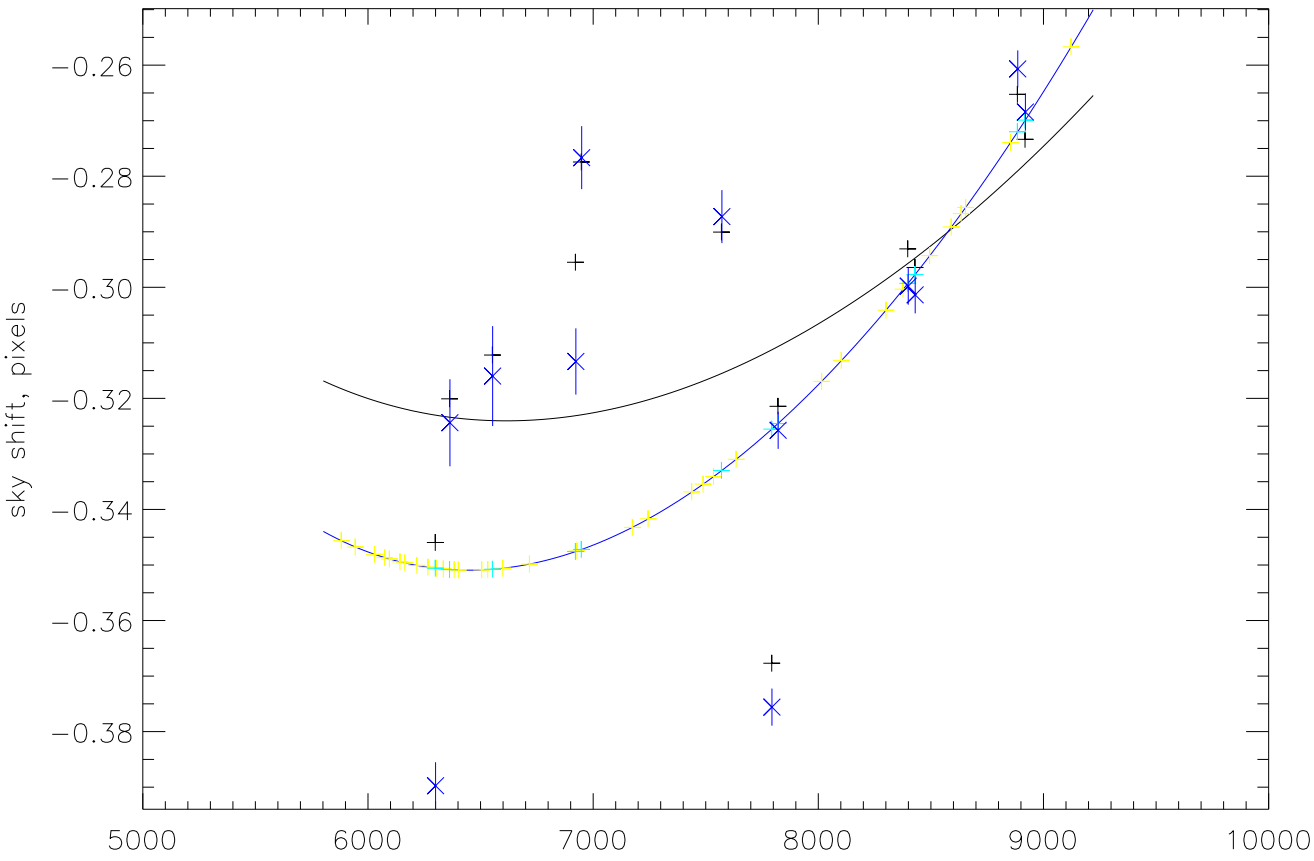

8399.1600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

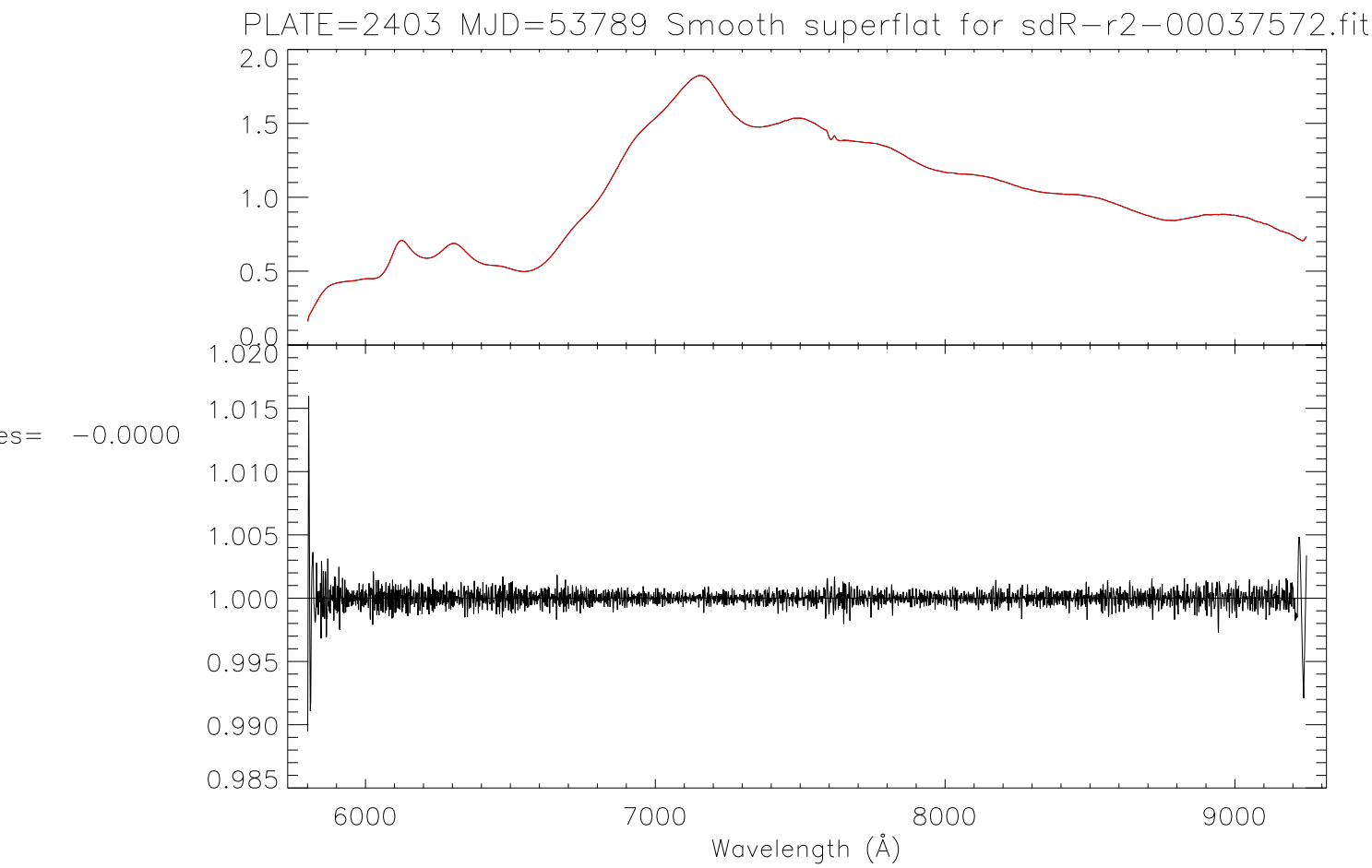

8430.1700
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400


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

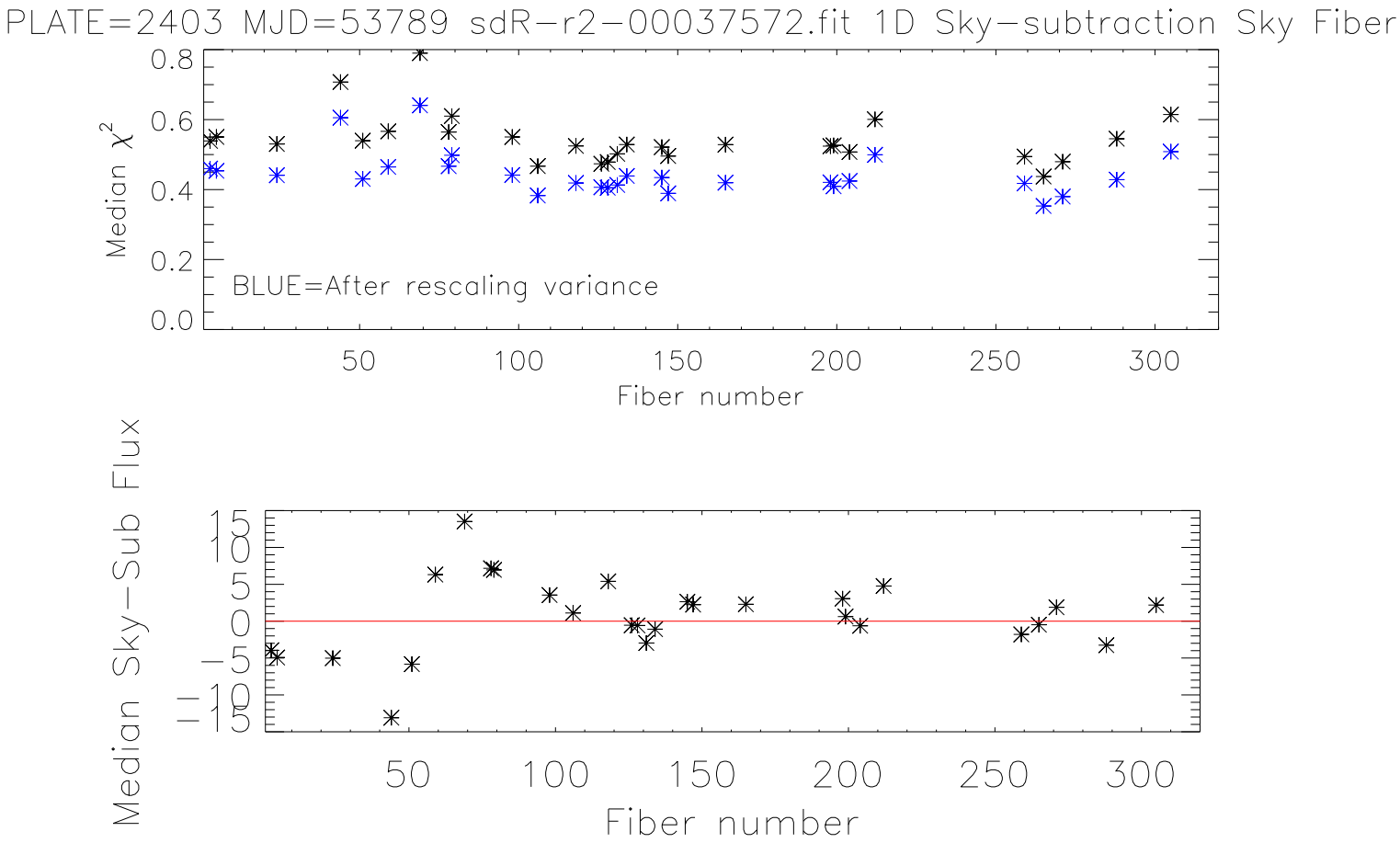

8919.6100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

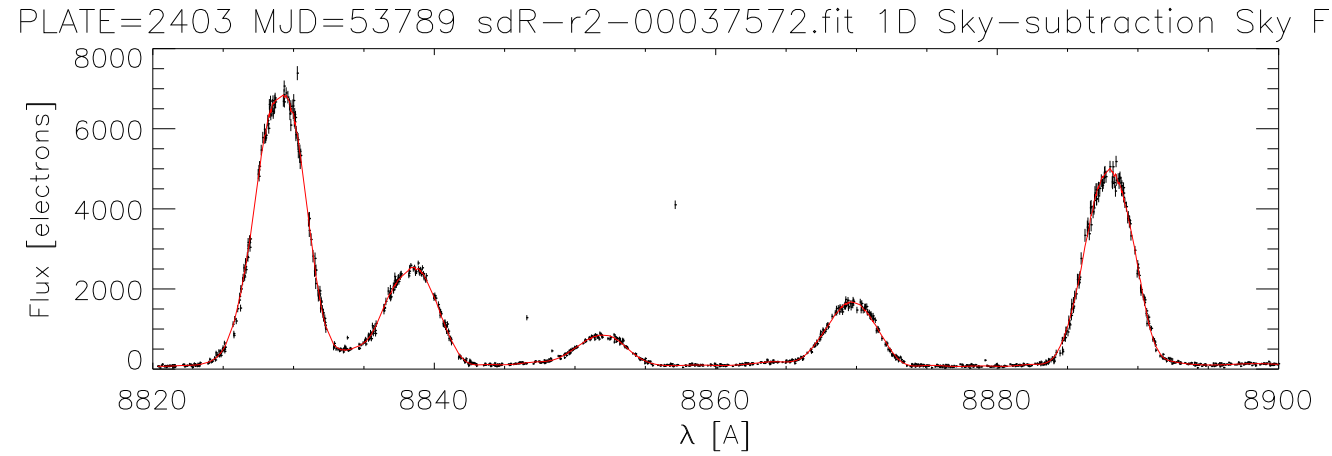

6300.3040
6363.7760
6553.6100
6923.2100
6949.0300
7571.7500
7794.1200
7821.5100
8399.1600
8430.1700
8885.8300
8919.6100
meas − pred, pix
mfhb1 28
mfhb2 28
stdev 0.24
extrd 0.30
stdev 0.34
extrd 0.32
stdev 0.39
extrd 0.32
stdev 0.38
extrd 0.31
stdev 0.29
extrd 0.28
stdev 0.24
extrd 0.29
stdev 0.25
extrd 0.38
stdev 0.22
extrd 0.33
stdev 0.16
extrd 0.30
stdev 0.18
extrd 0.30
stdev 0.30
extrd 0.26
stdev 0.30
extrd 0.27

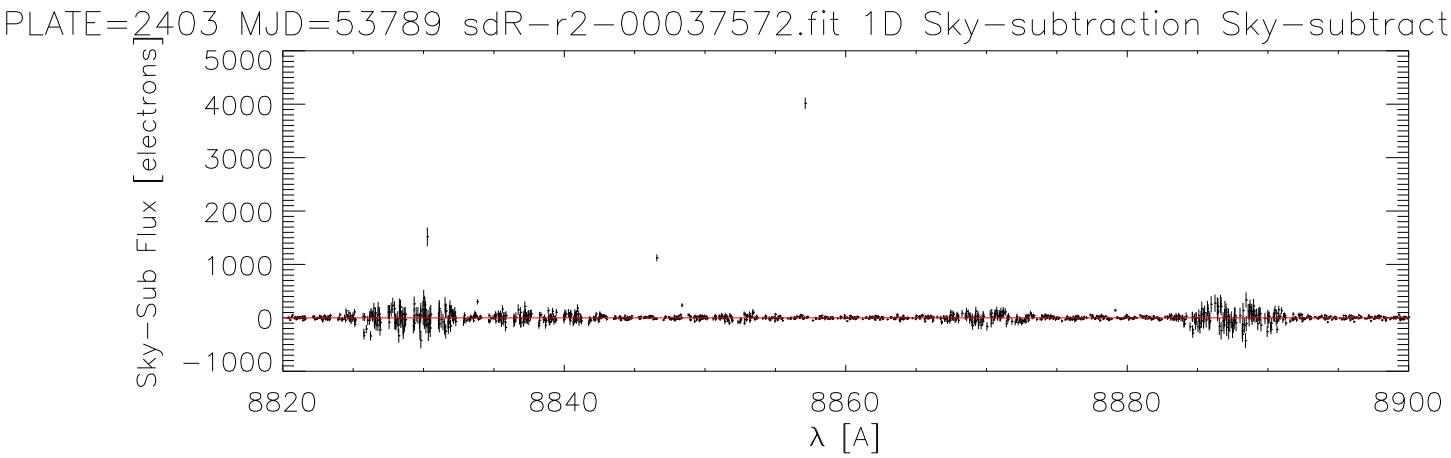

−0.26
−0.28
−0.30
−0.32
−0.34
−0.36
−0.38
sky shift, pixels
5000
6000
7000
8000
9000
10000

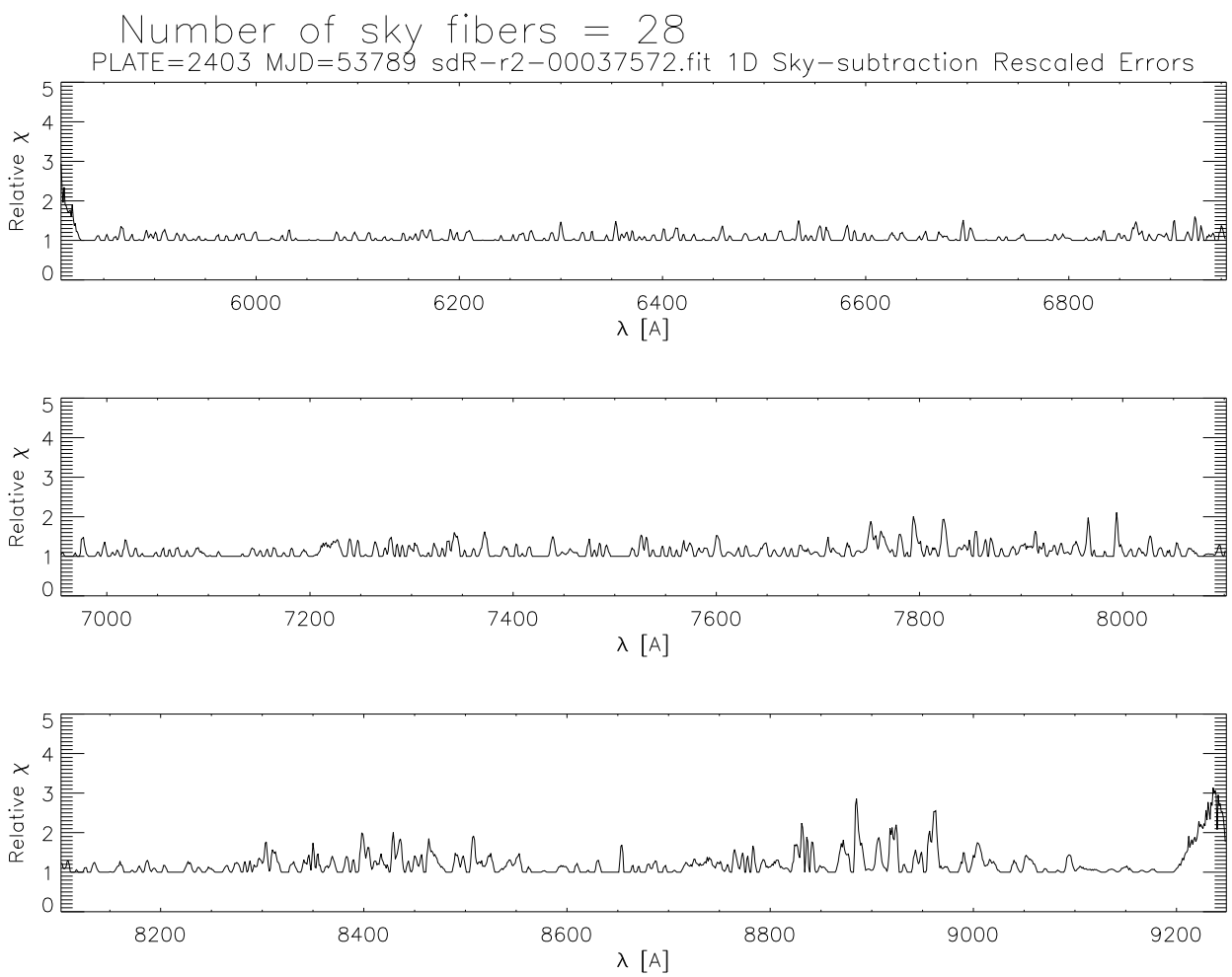

PLATE=2403 MJD=53789 Smooth superflat for sdR-r2-00037572.fit
2.0
1.5
1.0
0.5
0.0
1.020
1.015
1.010
1.005
1.000
0.995
0.990
0.985
6000
7000
8000
9000
Wavelength (Å)

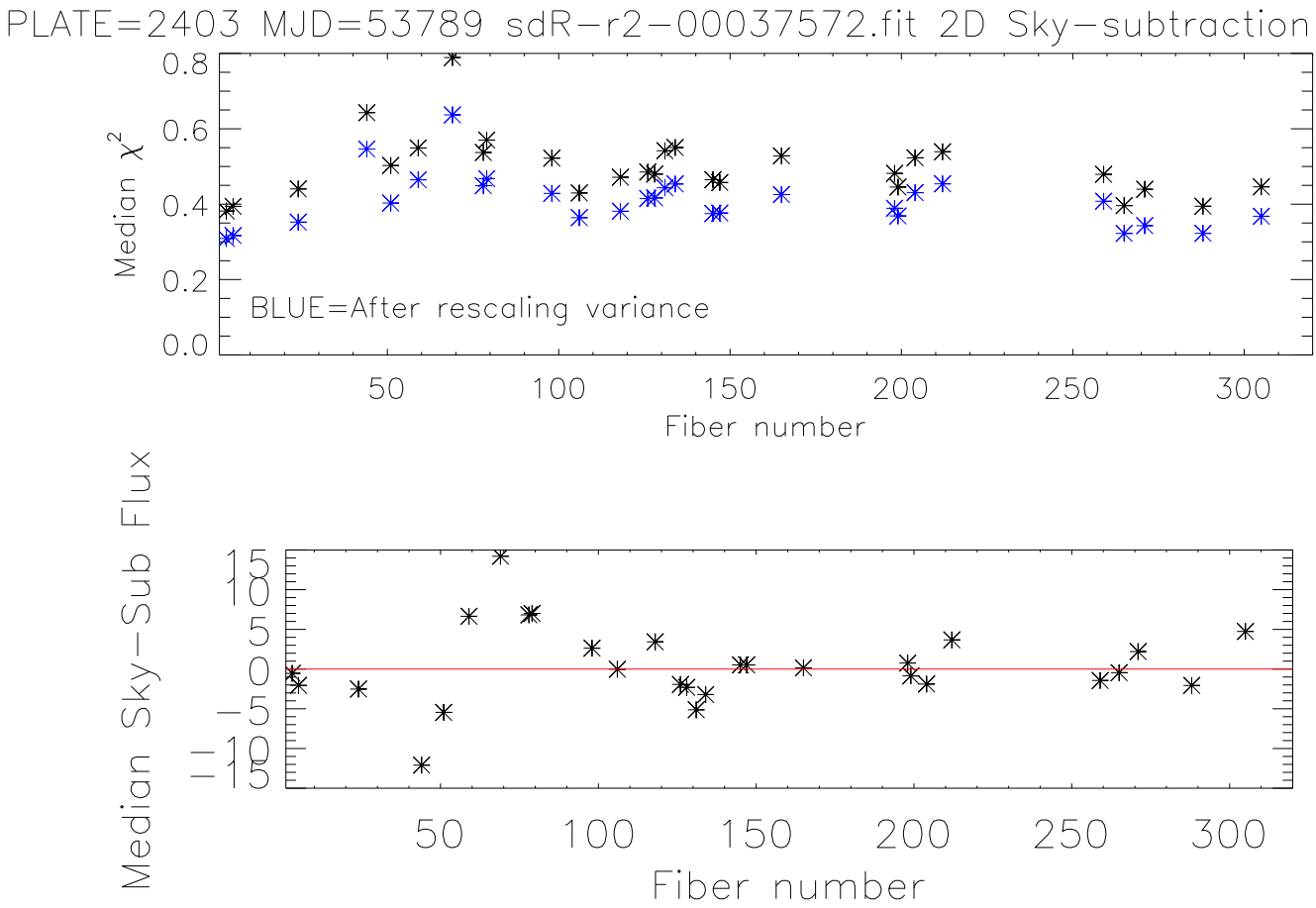
es= −0.0000

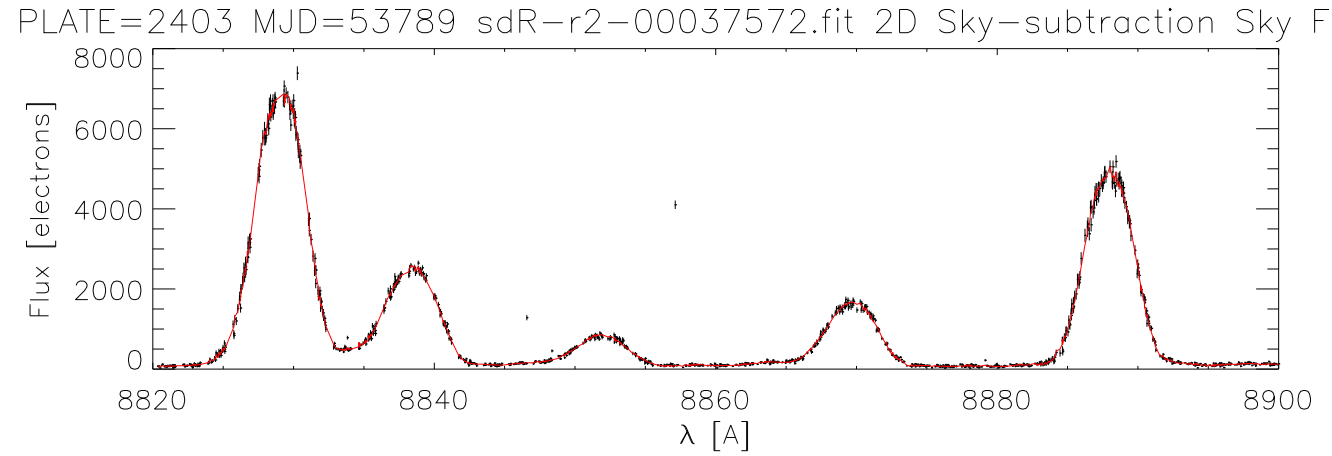

PLATE=2403 MJD=53789 sdR-r2-00037572.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
15
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

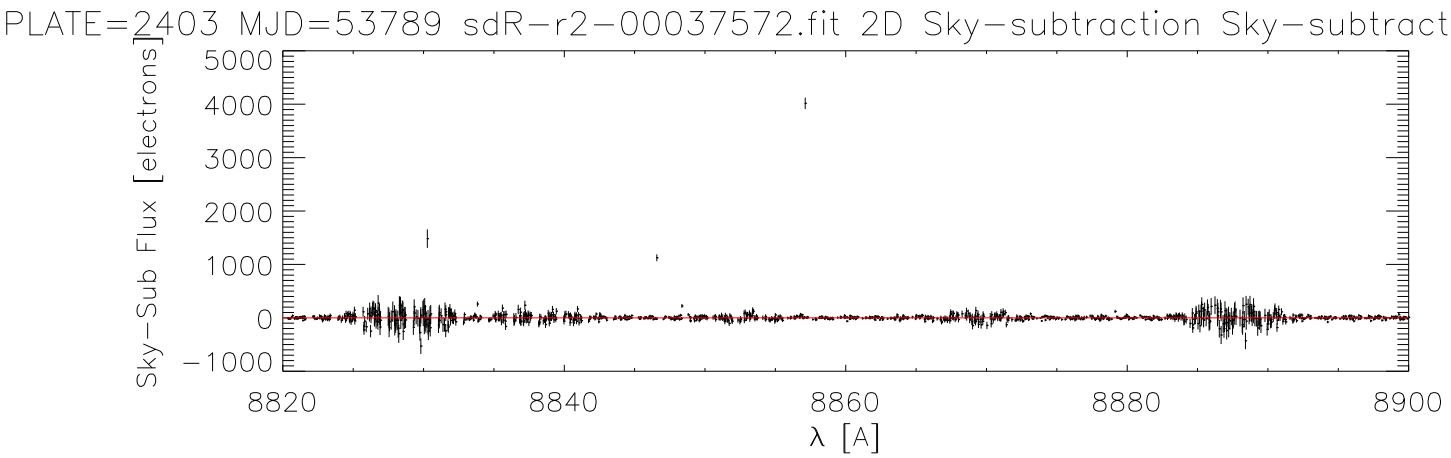

PLATE=2403 MJD=53789 sdR-r2-00037572.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

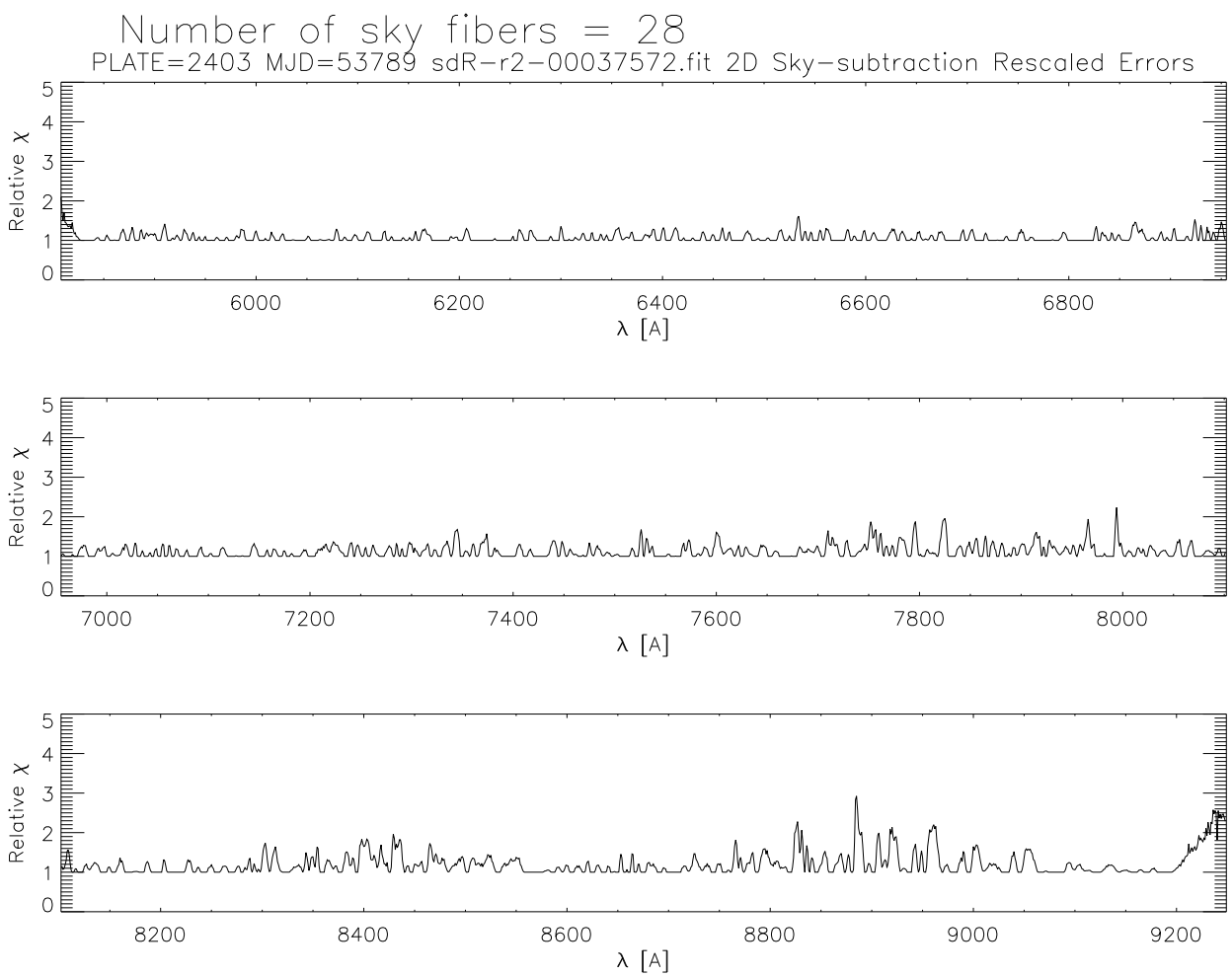

PLATE=2403 MJD=53789 sdR-r2-00037572.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
5000
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

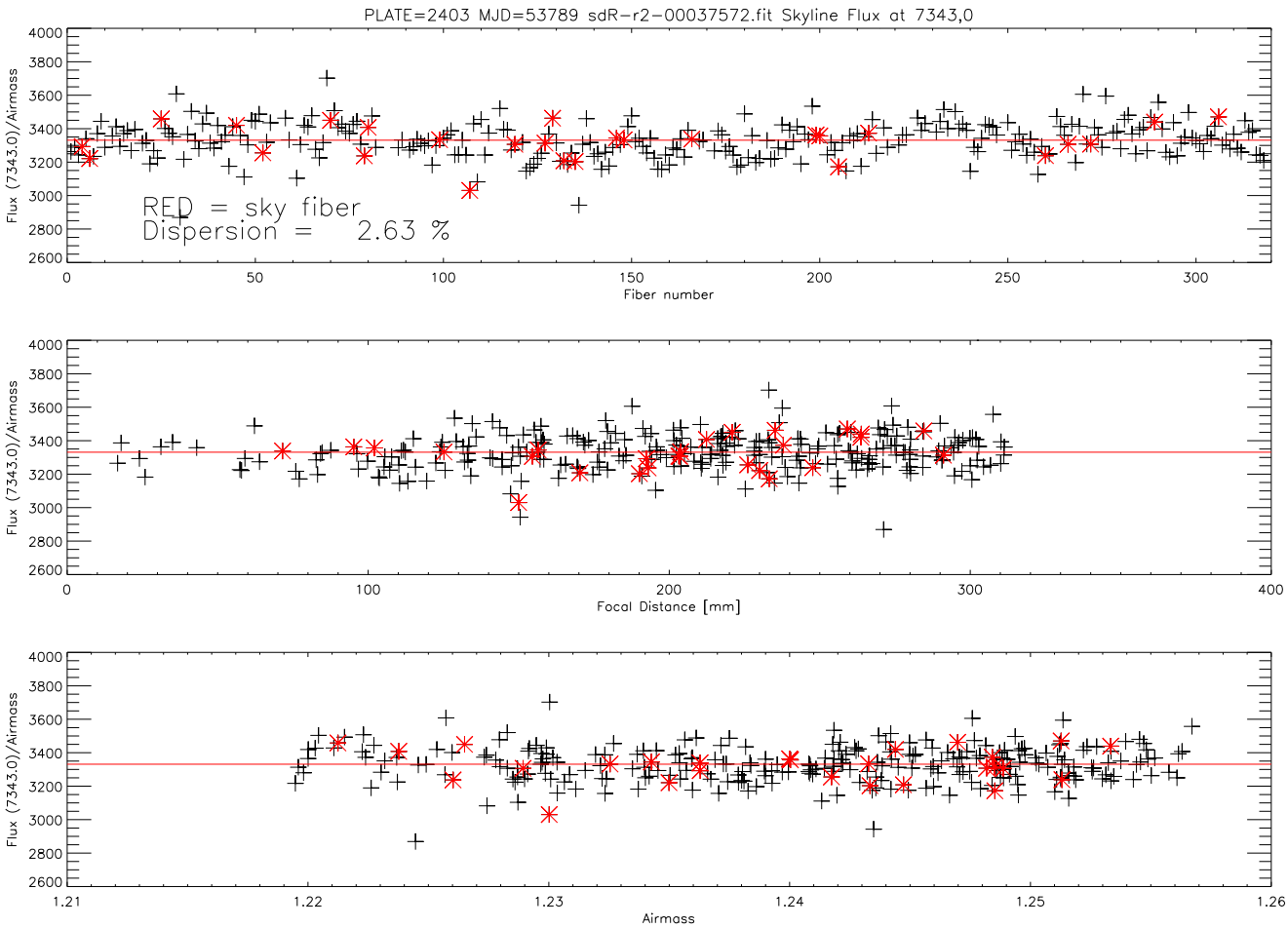

Number of sky fibers = 28
PLATE=2403 MJD=53789 sdR-r2-00037572.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

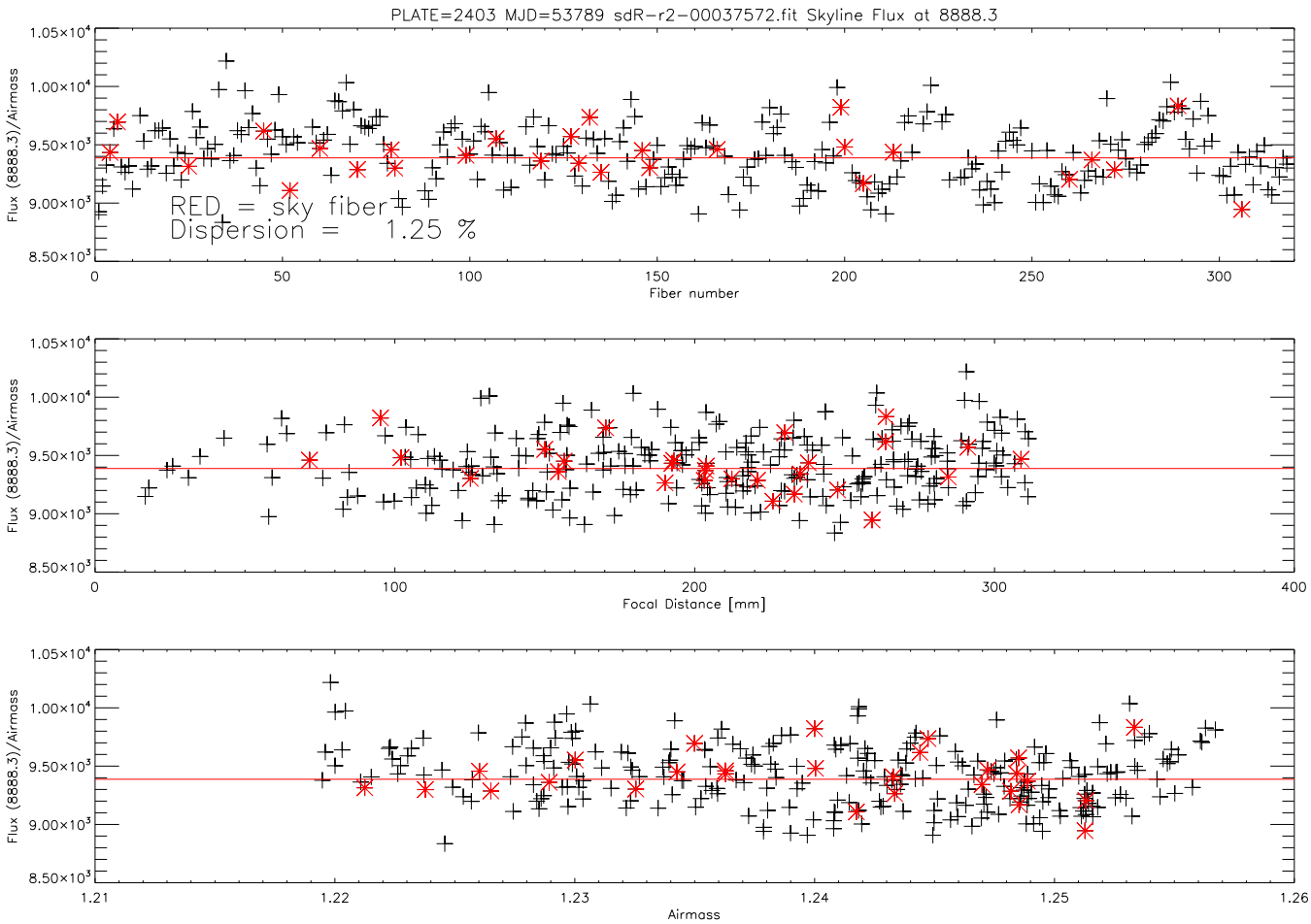

PLATE=2403 MJD=53789 sdR-r2-00037572.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
15
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

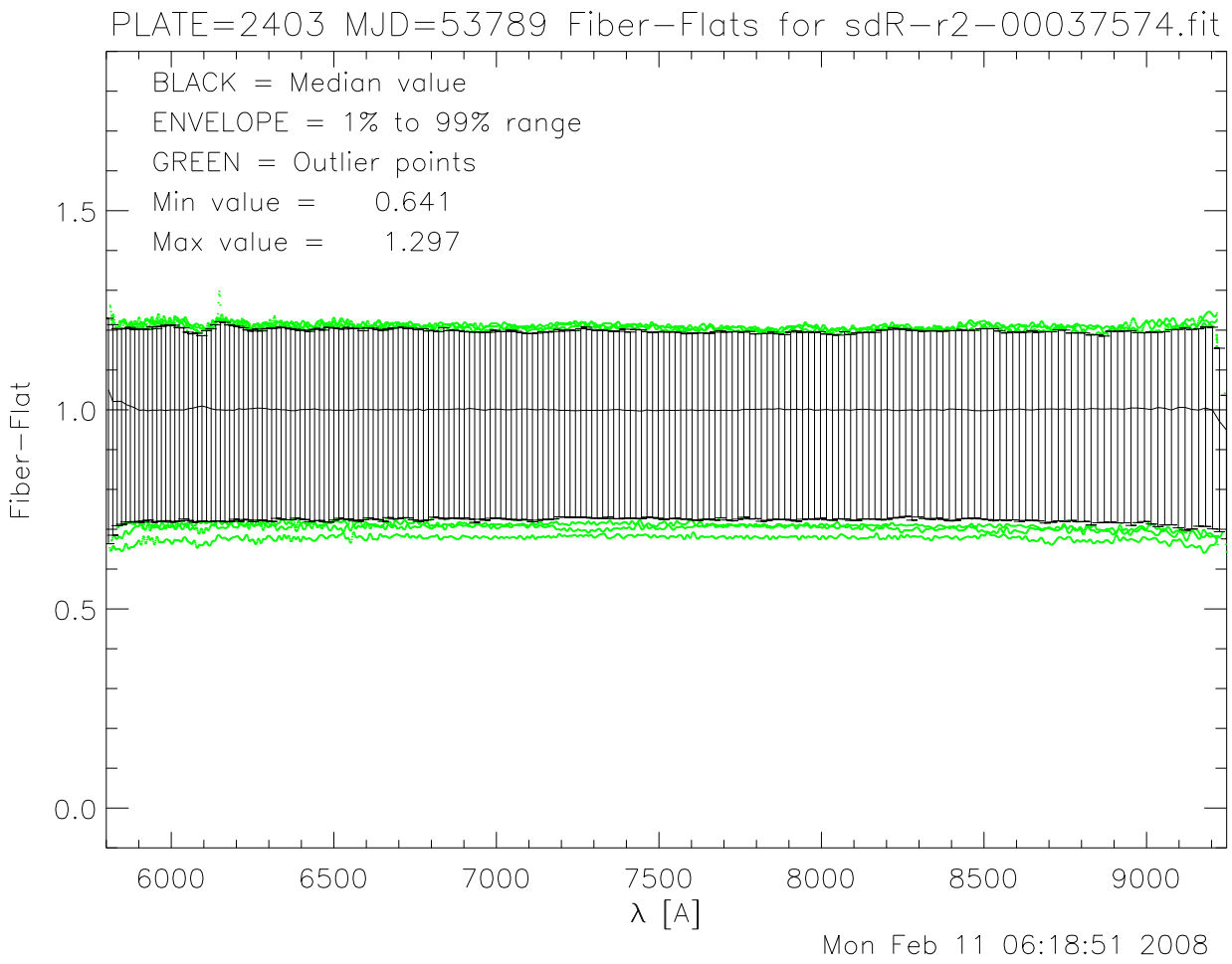

PLATE=2403 MJD=53789 sdR-r2-00037572.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

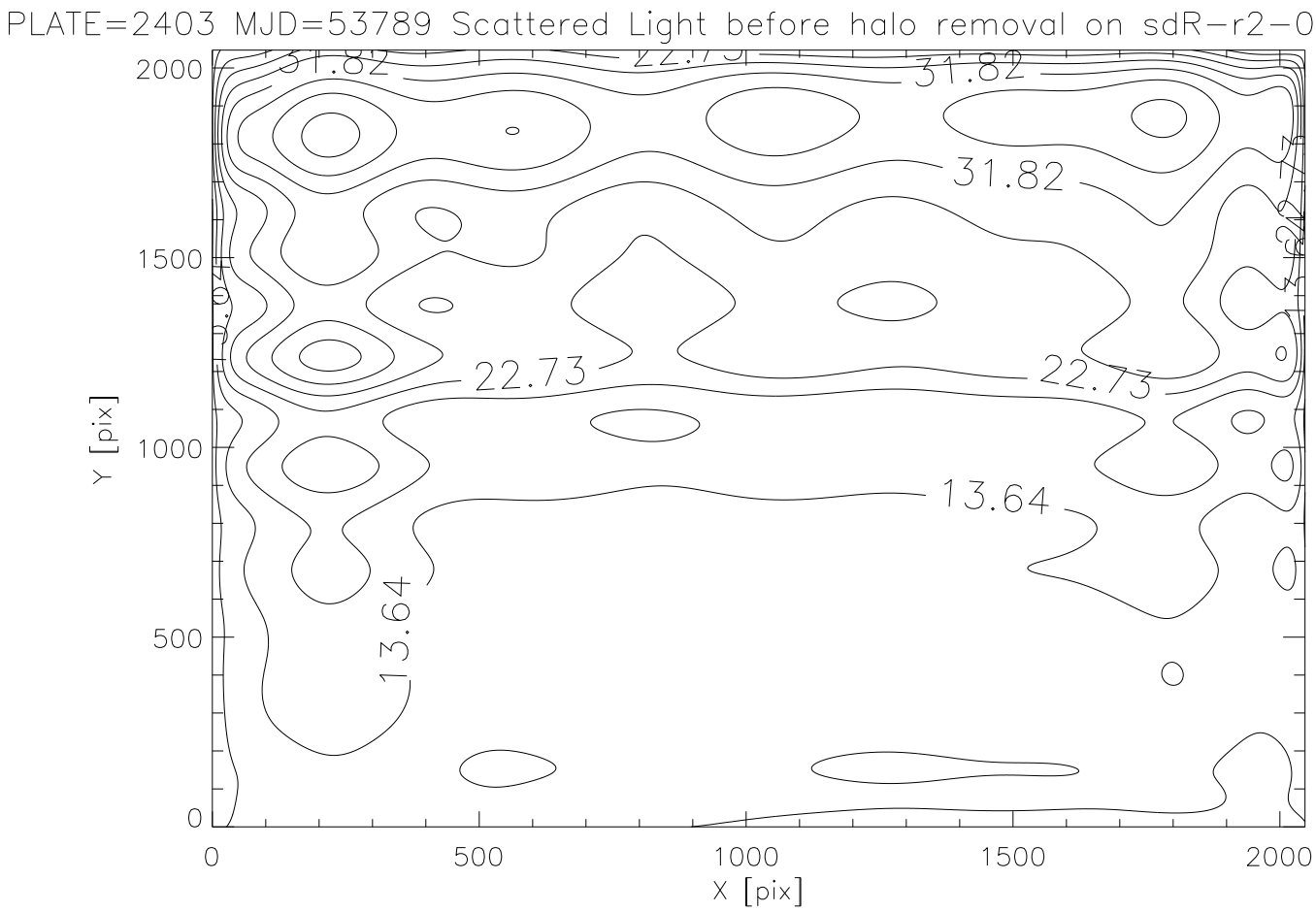

PLATE=2403 MJD=53789 sdR-r2-00037572.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
5000
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

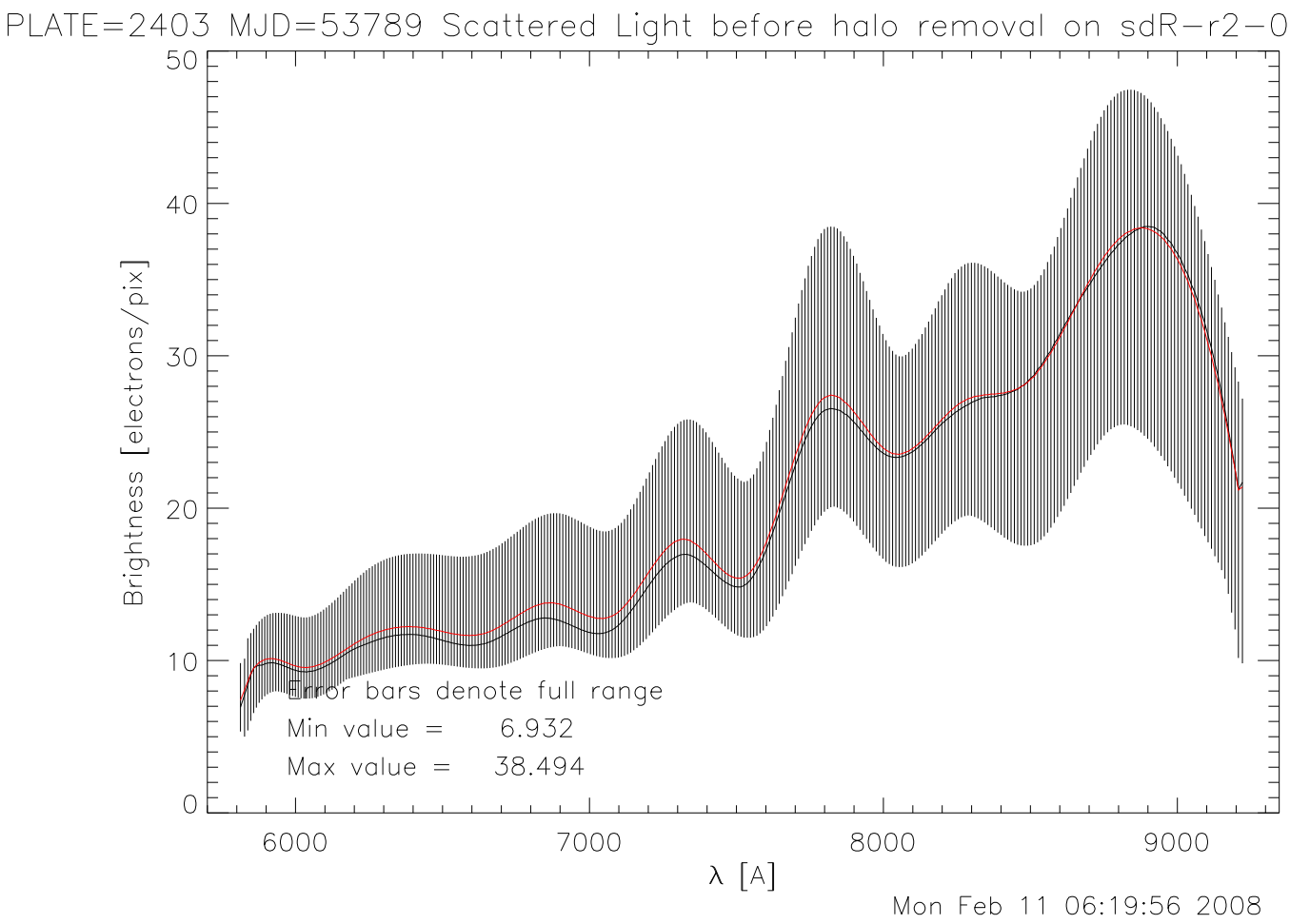

Number of sky fibers = 28
PLATE=2403 MJD=53789 sdR-r2-00037572.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

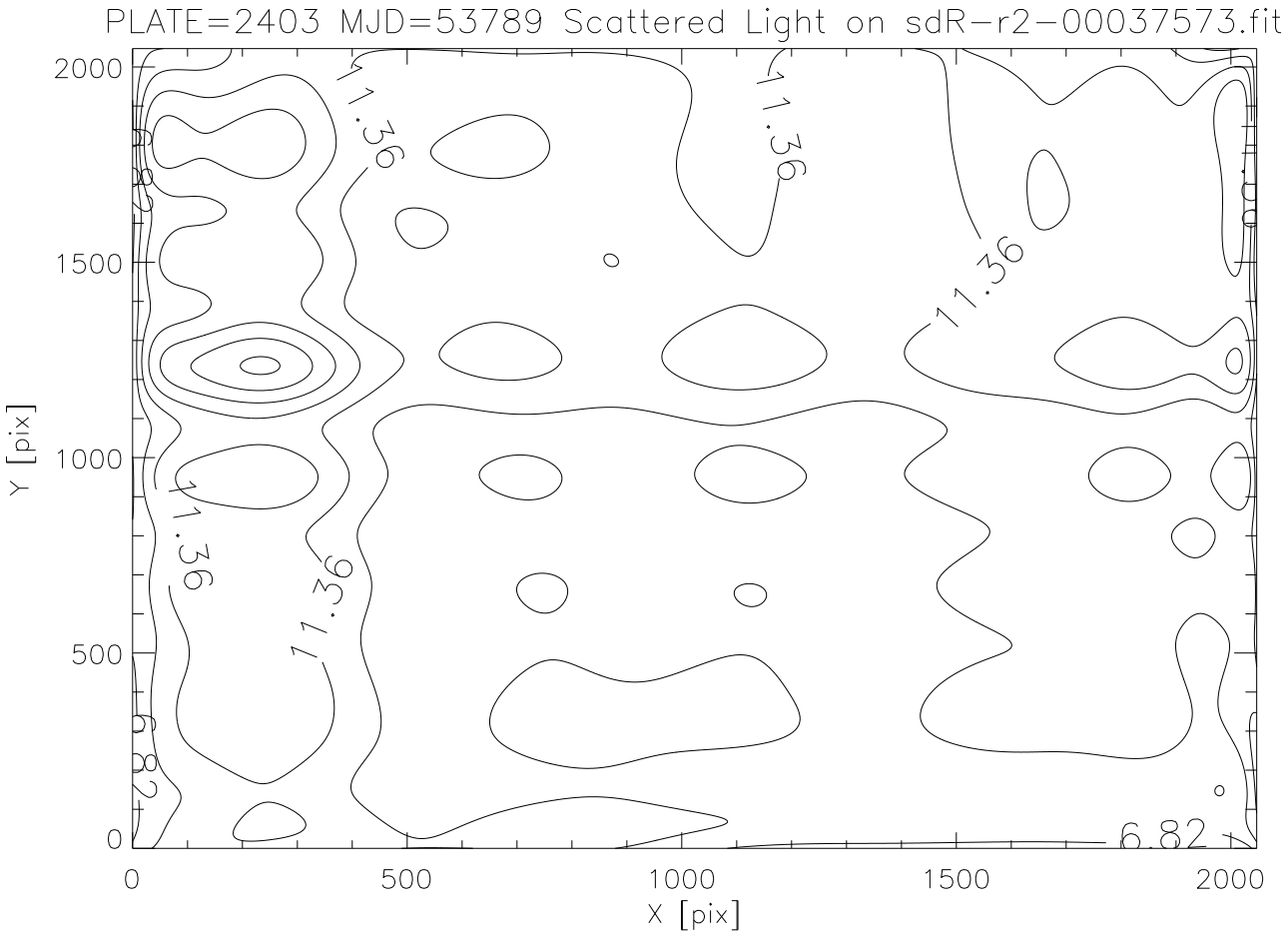

PLATE=2403 MJD=53789 sdR-r2-00037572.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.63 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

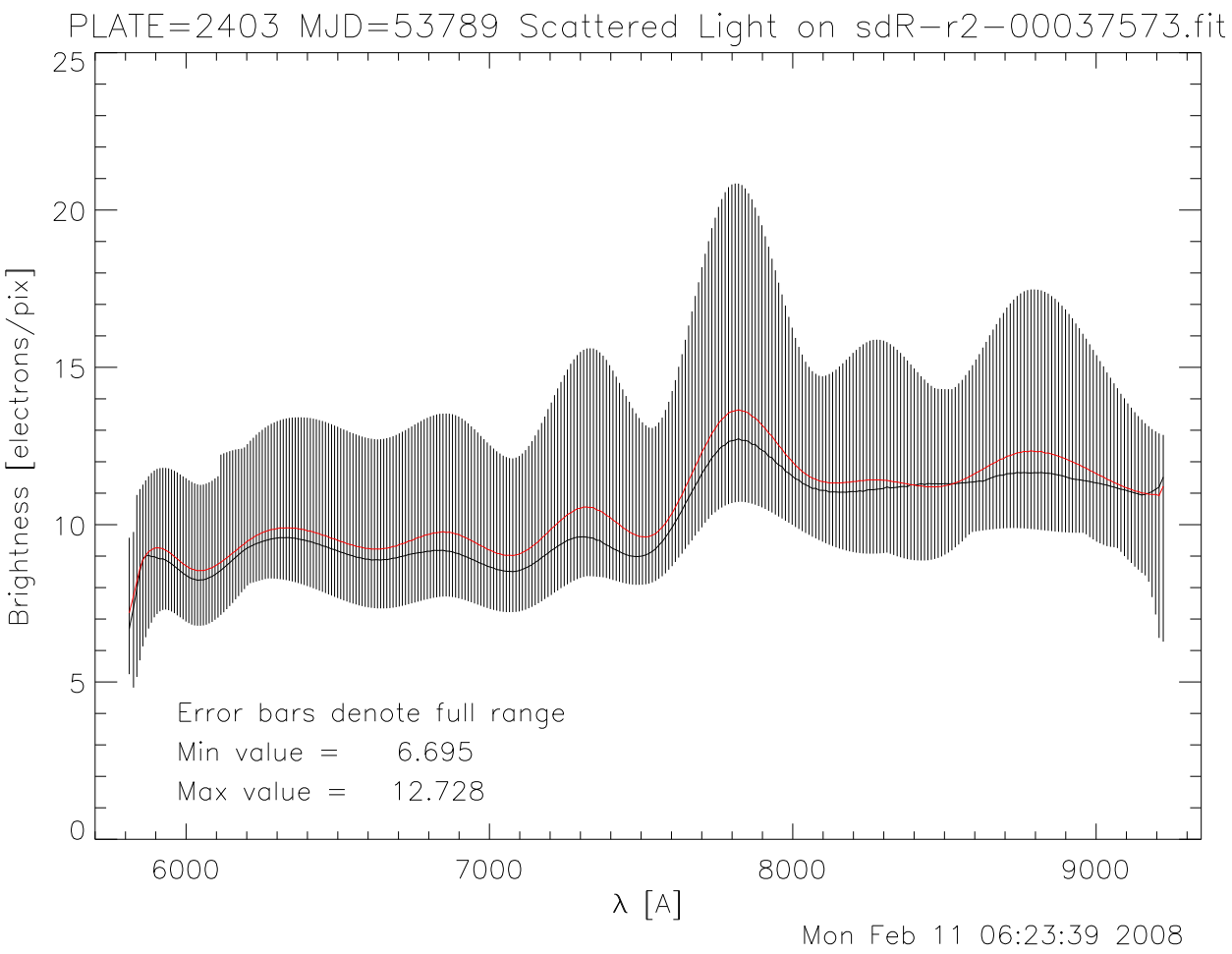

PLATE=2403 MJD=53789 sdR-r2-00037572.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
1.05×10⁴
1.00×10⁴
9.50×10³
9.00×10³
8.50×10³
RED = sky fiber
Dispersion = 1.25 %
0
50
100
150
200
250
300
Fiber number
Flux (8888.3)/Airmass
1.05×10⁴
1.00×10⁴
9.50×10³
9.00×10³
8.50×10³
0
100
200
300
400
Focal Distance [mm]
Flux (8888.3)/Airmass
1.05×10⁴
1.00×10⁴
9.50×10³
9.00×10³
8.50×10³
1.21
1.22
1.23
1.24
1.25
1.26
Airmass

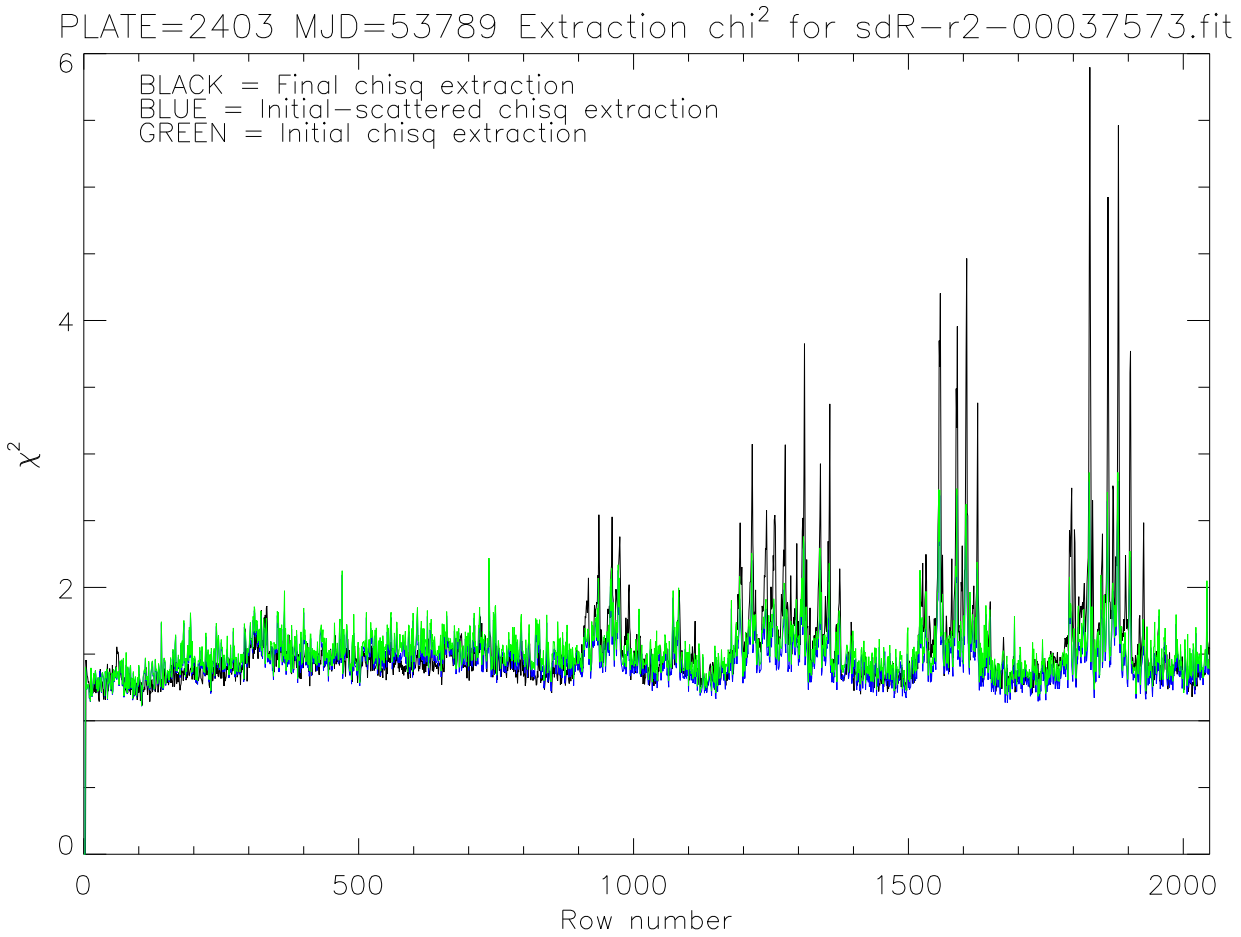

PLATE=2403 MJD=53789 Fiber−Flats for sdR−r2−00037574.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.641
Max value = 1.297
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 11 06:18:51 2008

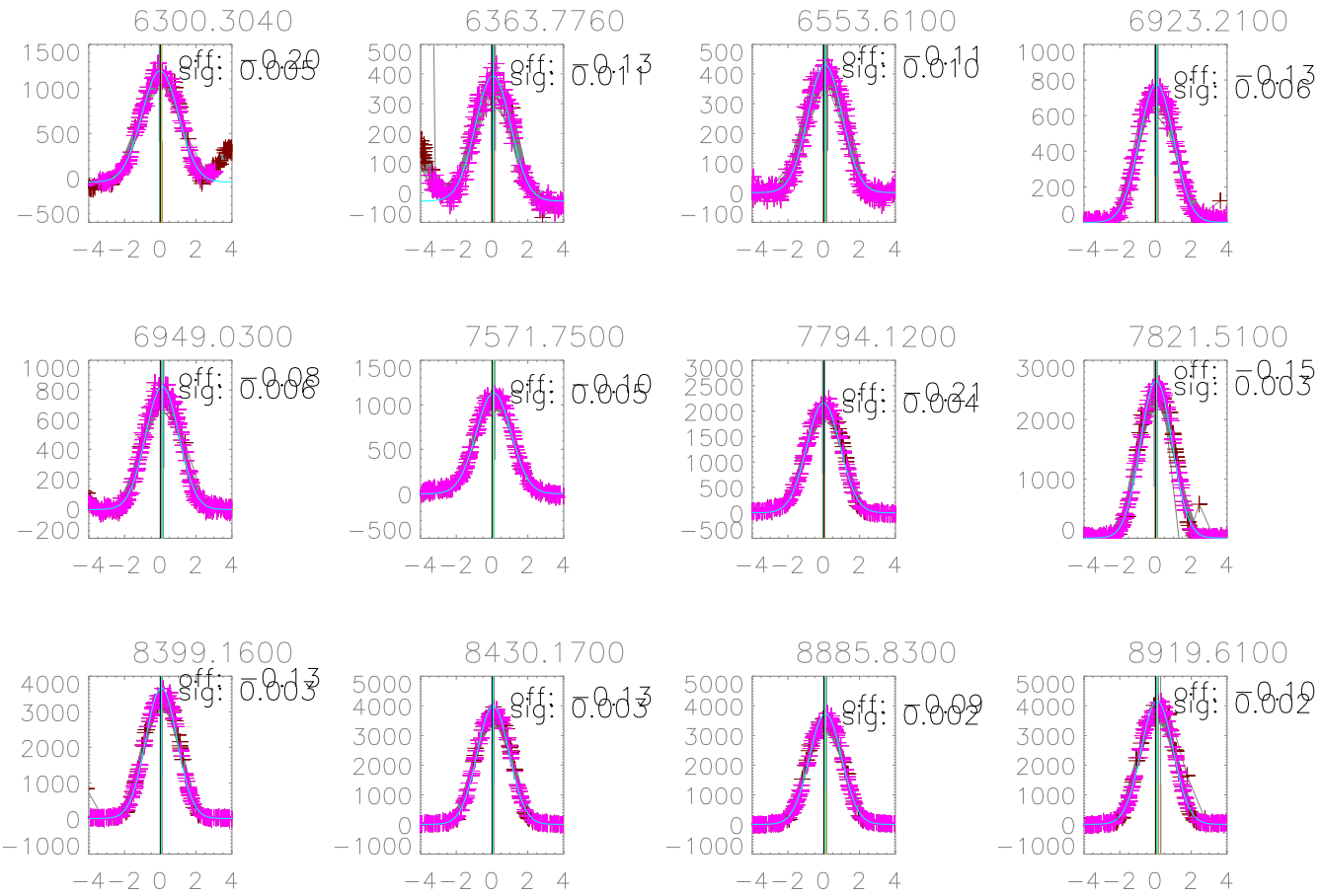

PLATE=2403 MJD=53789 Scattered Light before halo removal on sdR−r2−00037573.fi
31.82
22.73
13.64
Y [pix]
X [pix]
0
500
1000
1500
2000

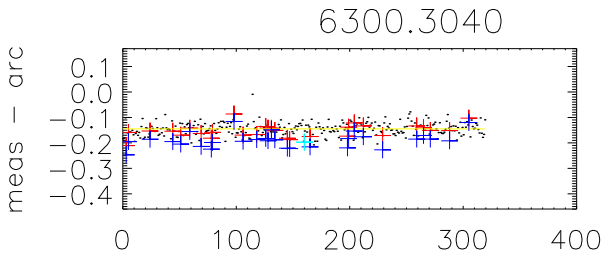

PLATE=2403 MJD=53789 Scattered Light before halo removal on sdR-r2-00037573.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.932
Max value = 38.494
Mon Feb 11 06:19:56 2008

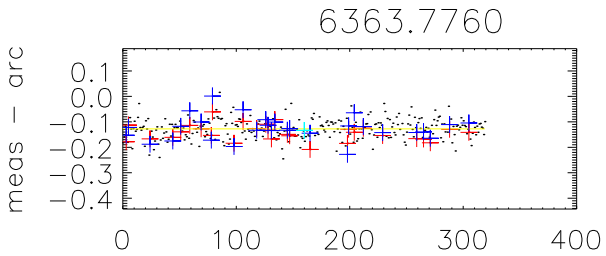

PLATE=2403 MJD=53789 Scattered Light on sdR-r2-00037573.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
11.36
6.82

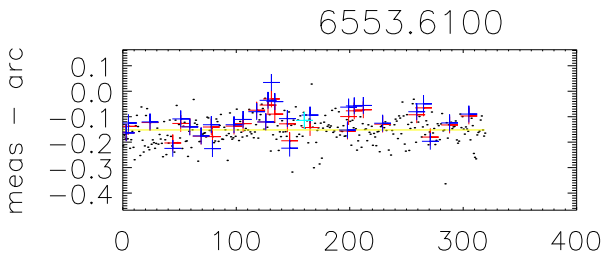

PLATE=2403 MJD=53789 Scattered Light on sdR-r2-00037573.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.695
Max value = 12.728
Mon Feb 11 06:23:39 2008

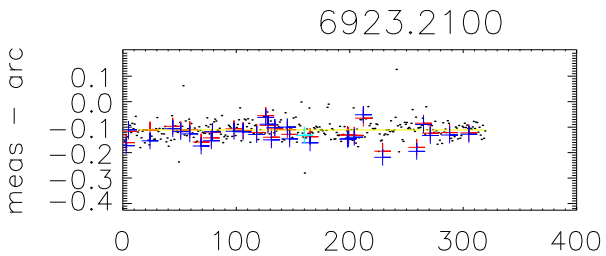

PLATE=2403 MJD=53789 Extraction chi^2 for sdR−r2−00037573.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
0
500
1000
1500
2000
Row number

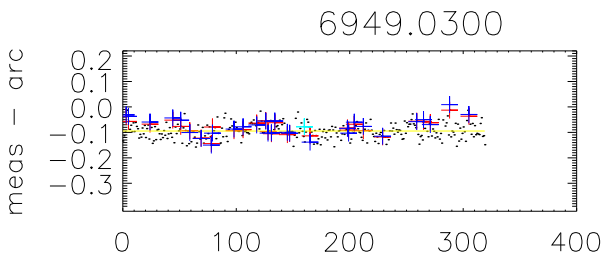

6300.3040
off: −0.20
sig: 0.005
6363.7760
off: −0.13
sig: 0.011
6553.6100
off: −0.11
sig: 0.010
6923.2100
off: −0.13
sig: 0.006
6949.0300
off: −0.08
sig: 0.006
7571.7500
off: −0.10
sig: 0.005
7794.1200
off: −0.21
sig: 0.004
7821.5100
off: −0.15
sig: 0.003
8399.1600
off: −0.13
sig: 0.003
8430.1700
off: −0.13
sig: 0.003
8885.8300
off: −0.09
sig: 0.002
8919.6100
off: −0.10
sig: 0.002

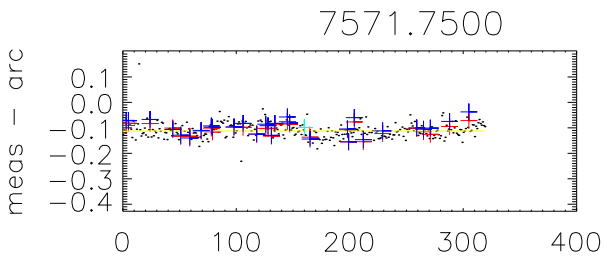

6300.3040
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

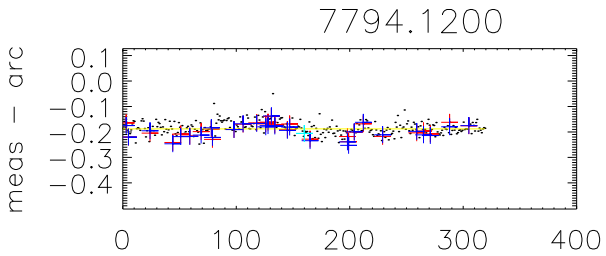

6363.7760
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

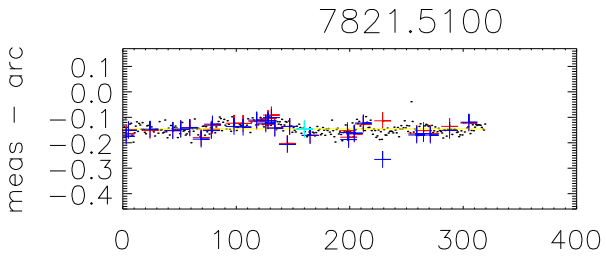

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

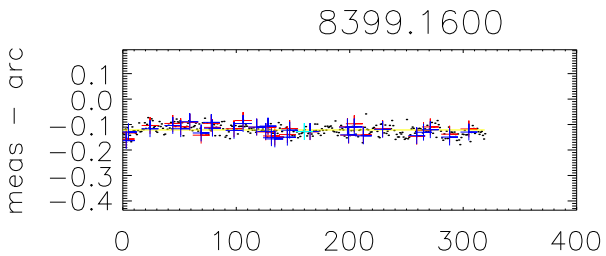

6923.2100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

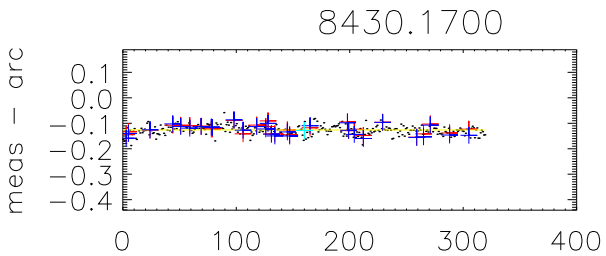

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

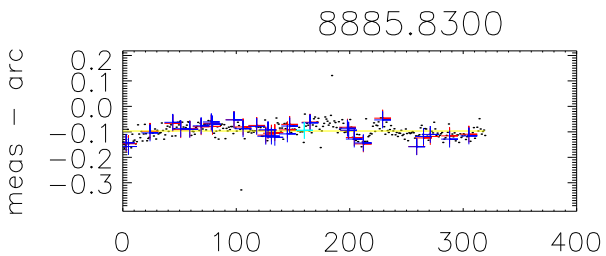

7571.7500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

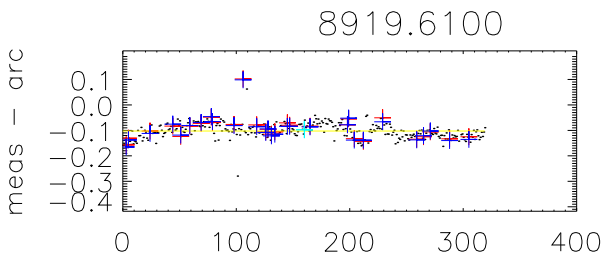

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

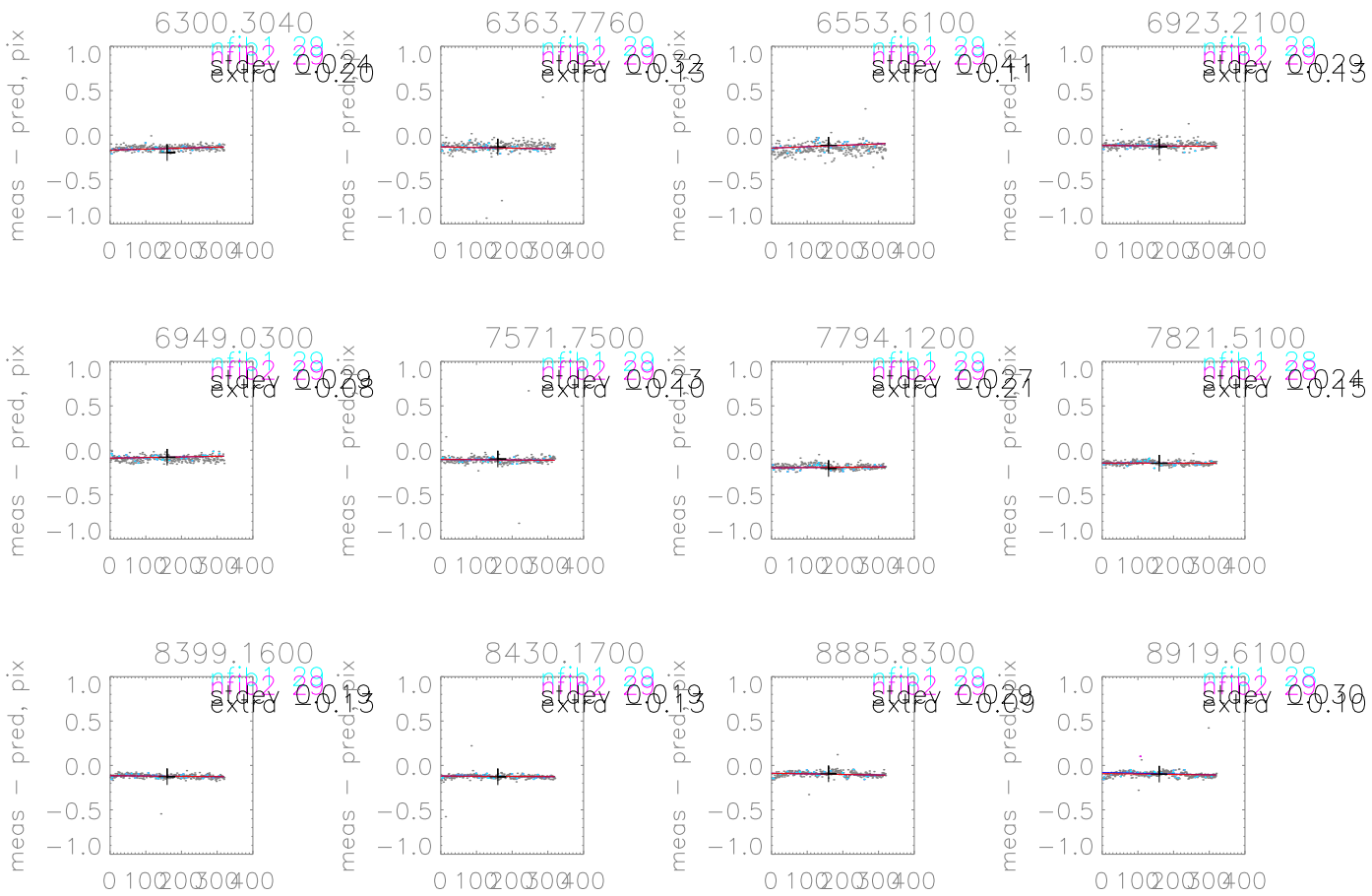

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

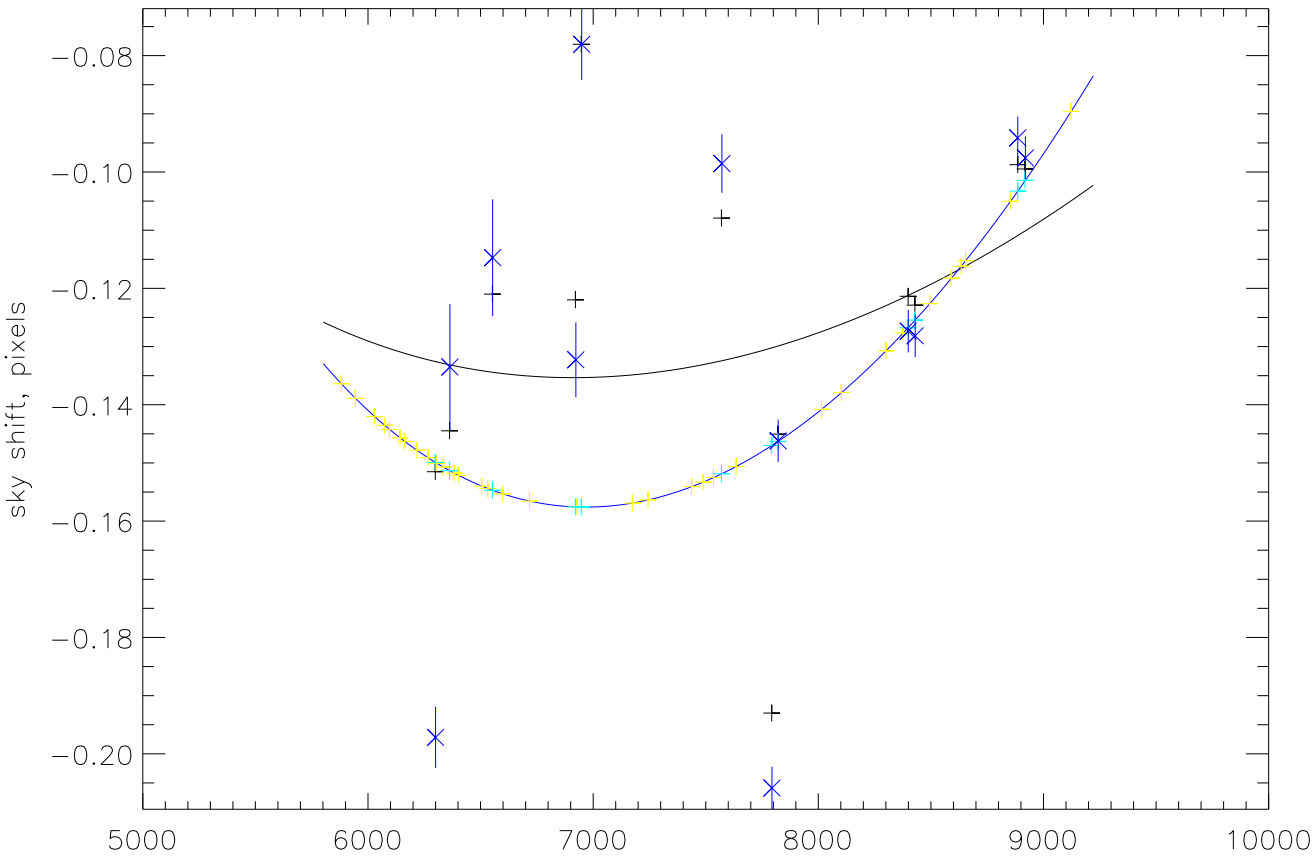

8399.1600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

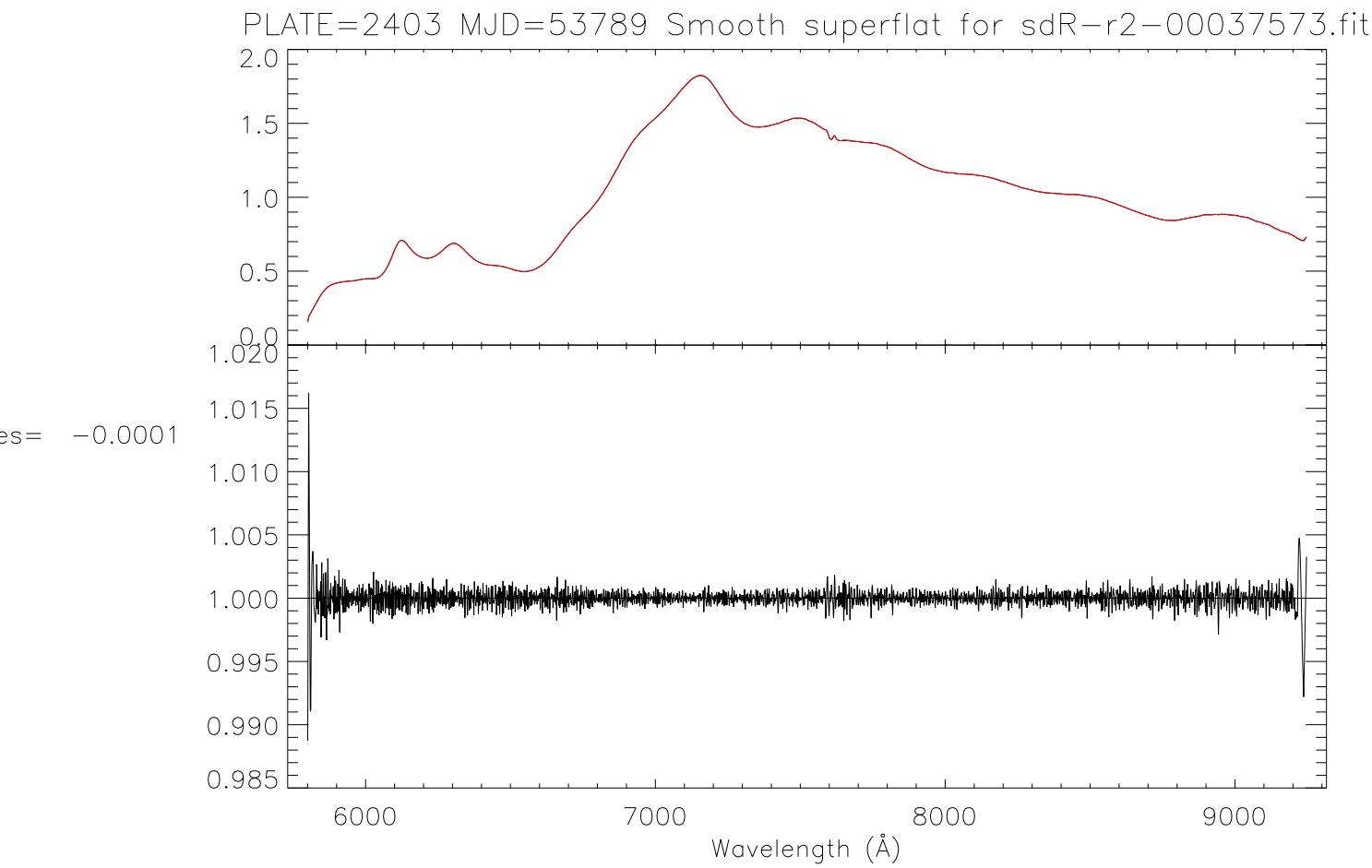

8430.1700
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


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

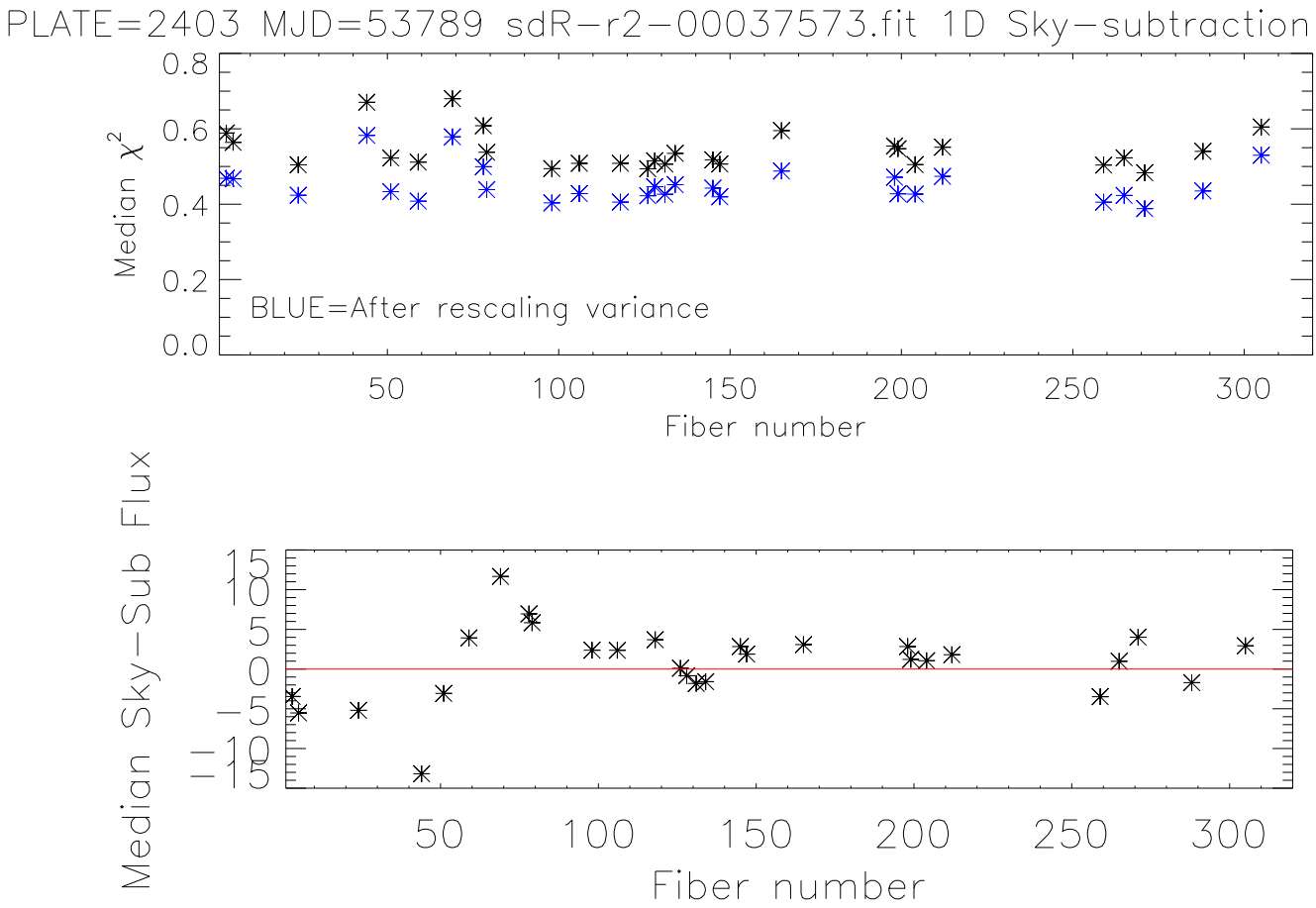

8919.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

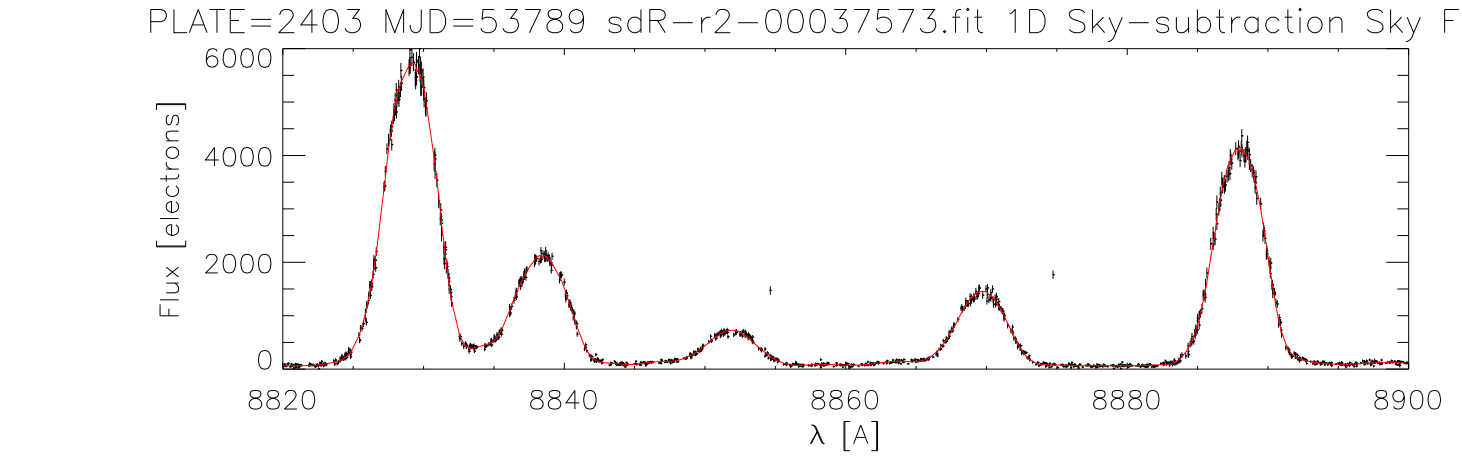

6300.3040
stdev 0.024
extra 0.20
6363.7760
stdev 0.032
extra 0.13
6553.6100
stdev 0.041
extra 0.11
6923.2100
stdev 0.029
extra 0.43
6949.0300
stdev 0.029
extra 0.08
7571.7500
stdev 0.023
extra 0.40
7794.1200
stdev 0.027
extra 0.21
7821.5100
stdev 0.024
extra 0.45
8399.1600
stdev 0.019
extra 0.13
8430.1700
stdev 0.019
extra 0.13
8885.8300
stdev 0.029
extra 0.09
8919.6100
stdev 0.030
extra 0.10
meas − pred, pix
mfhd1 28
mfhd2 28

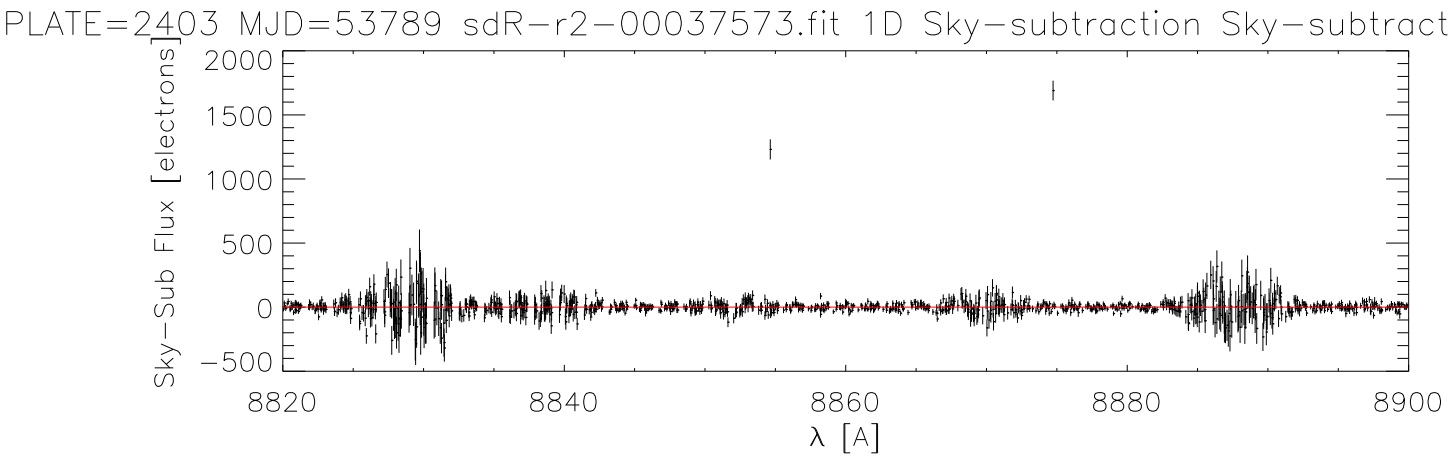

sky shift, pixels
−0.08
−0.10
−0.12
−0.14
−0.16
−0.18
−0.20
5000
6000
7000
8000
9000
10000

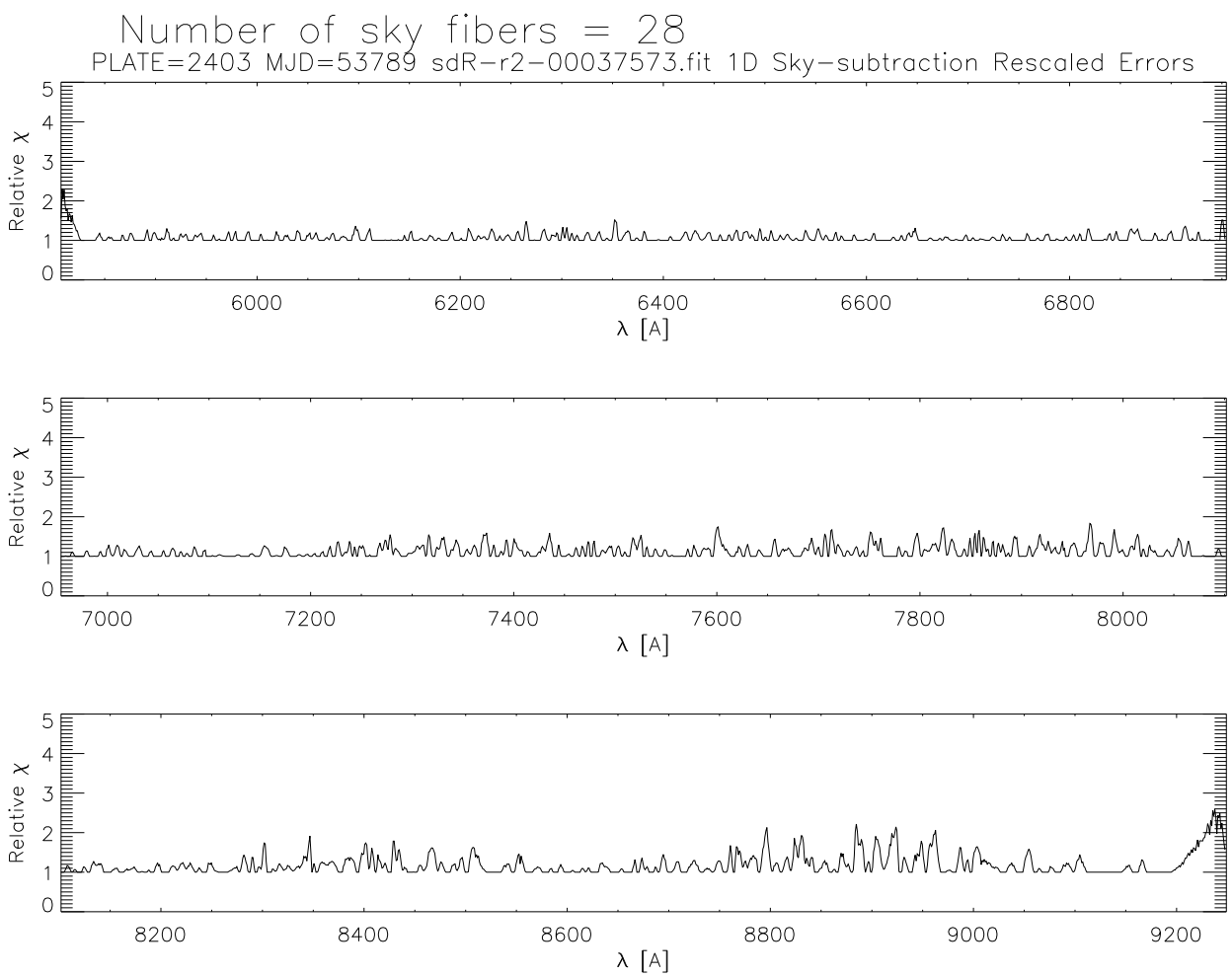

PLATE=2403 MJD=53789 Smooth superflat for sdR-r2-00037573.fit
2.0
1.5
1.0
0.5
0.0
1.020
1.015
1.010
1.005
1.000
0.995
0.990
0.985
6000
7000
8000
9000
Wavelength (Å)

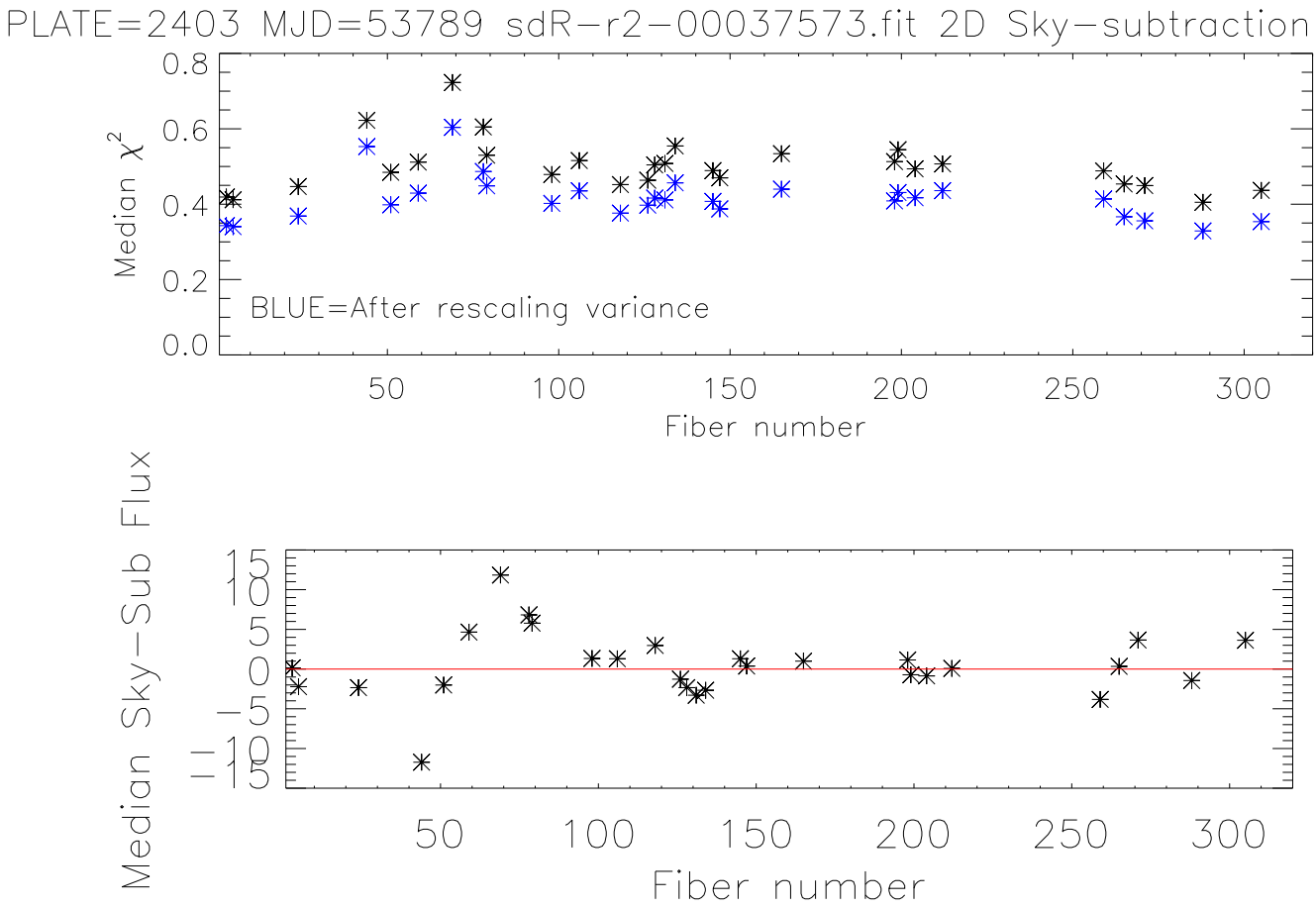
es= −0.0001

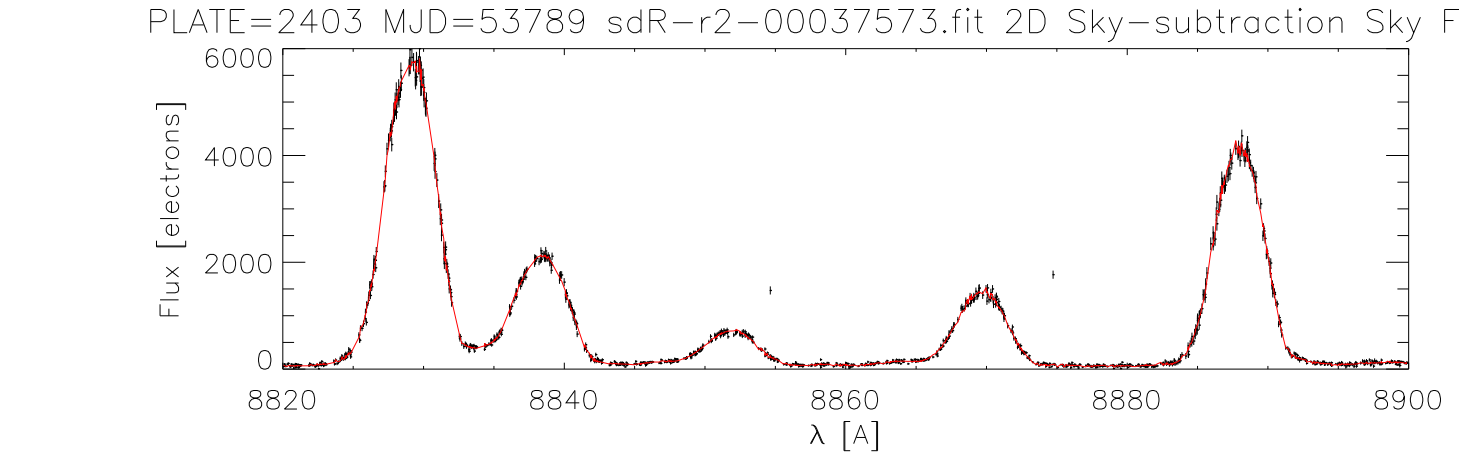

PLATE=2403 MJD=53789 sdR-r2-00037573.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
15
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

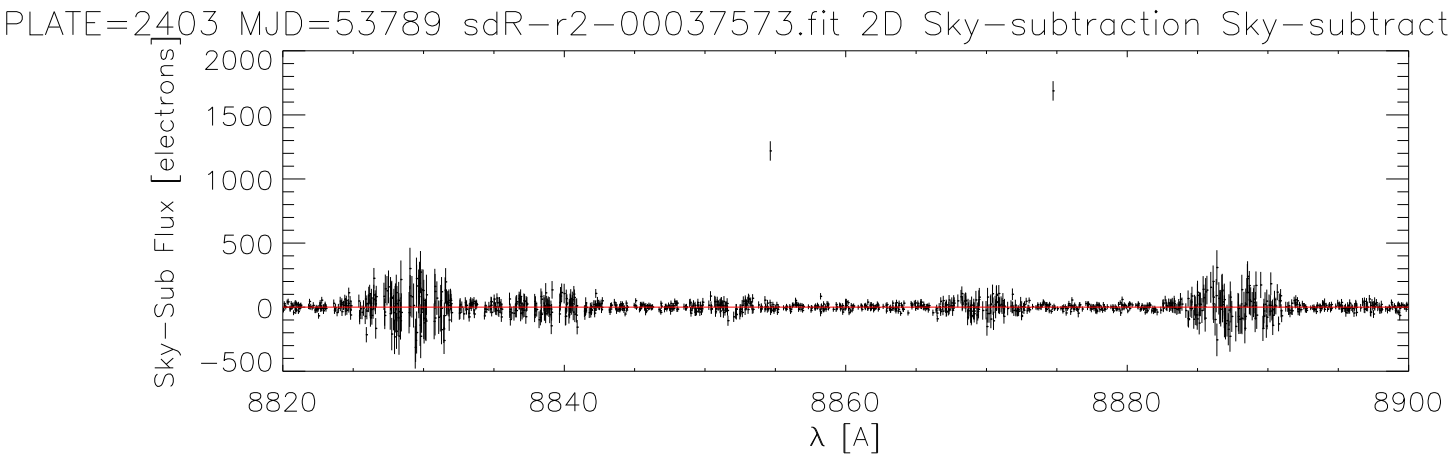

PLATE=2403 MJD=53789 sdR-r2-00037573.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

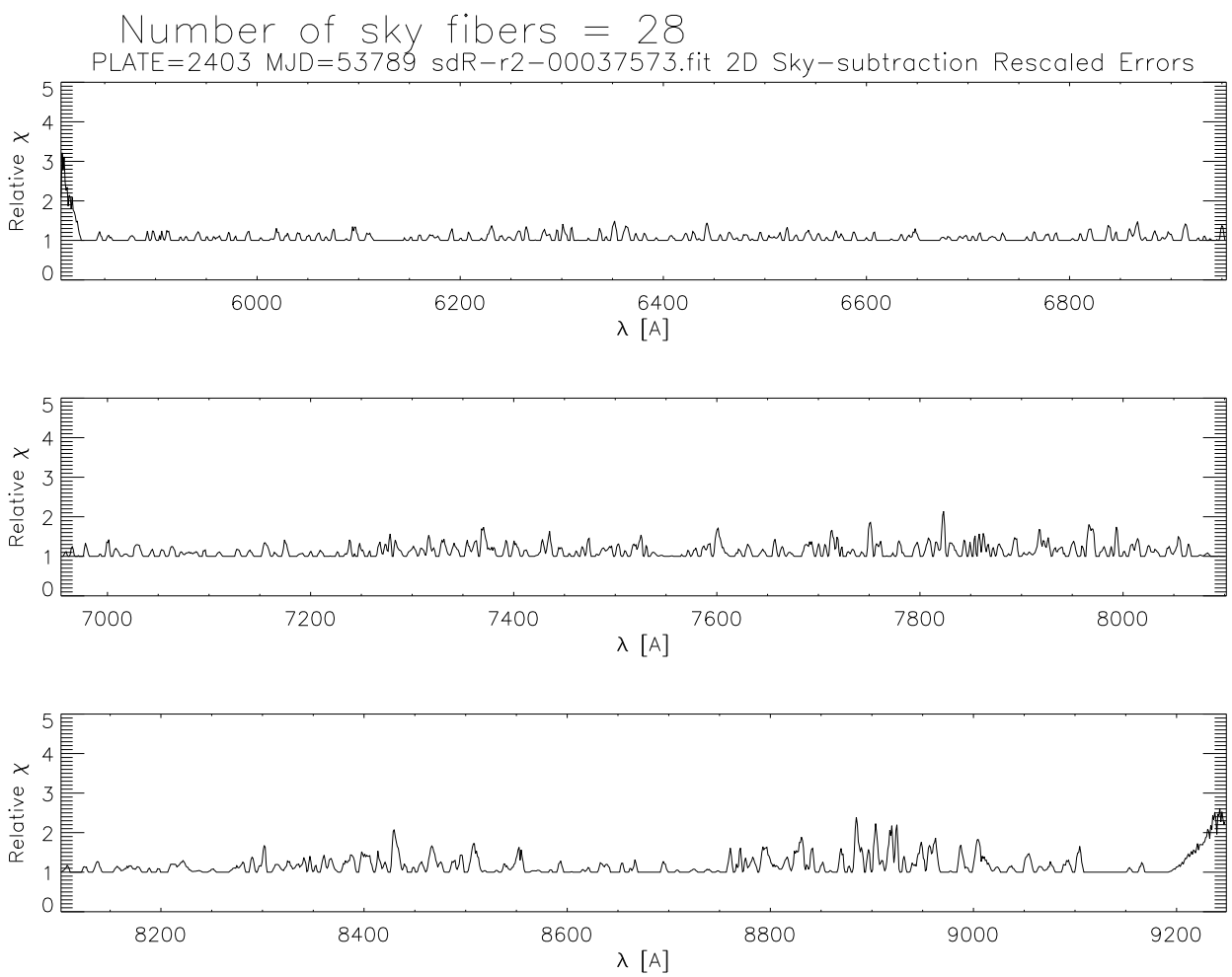

PLATE=2403 MJD=53789 sdR-r2-00037573.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

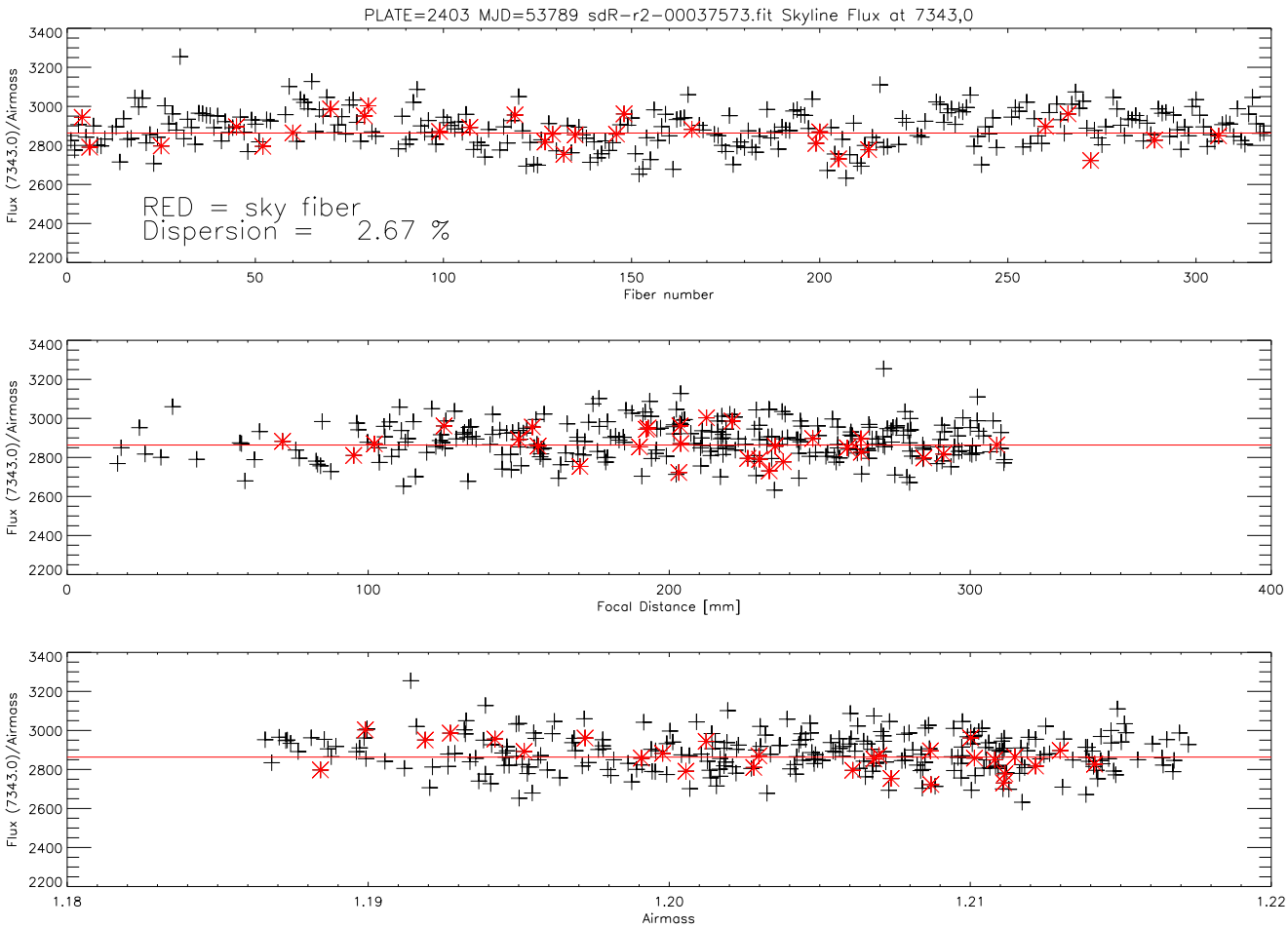

Number of sky fibers = 28
PLATE=2403 MJD=53789 sdR-r2-00037573.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

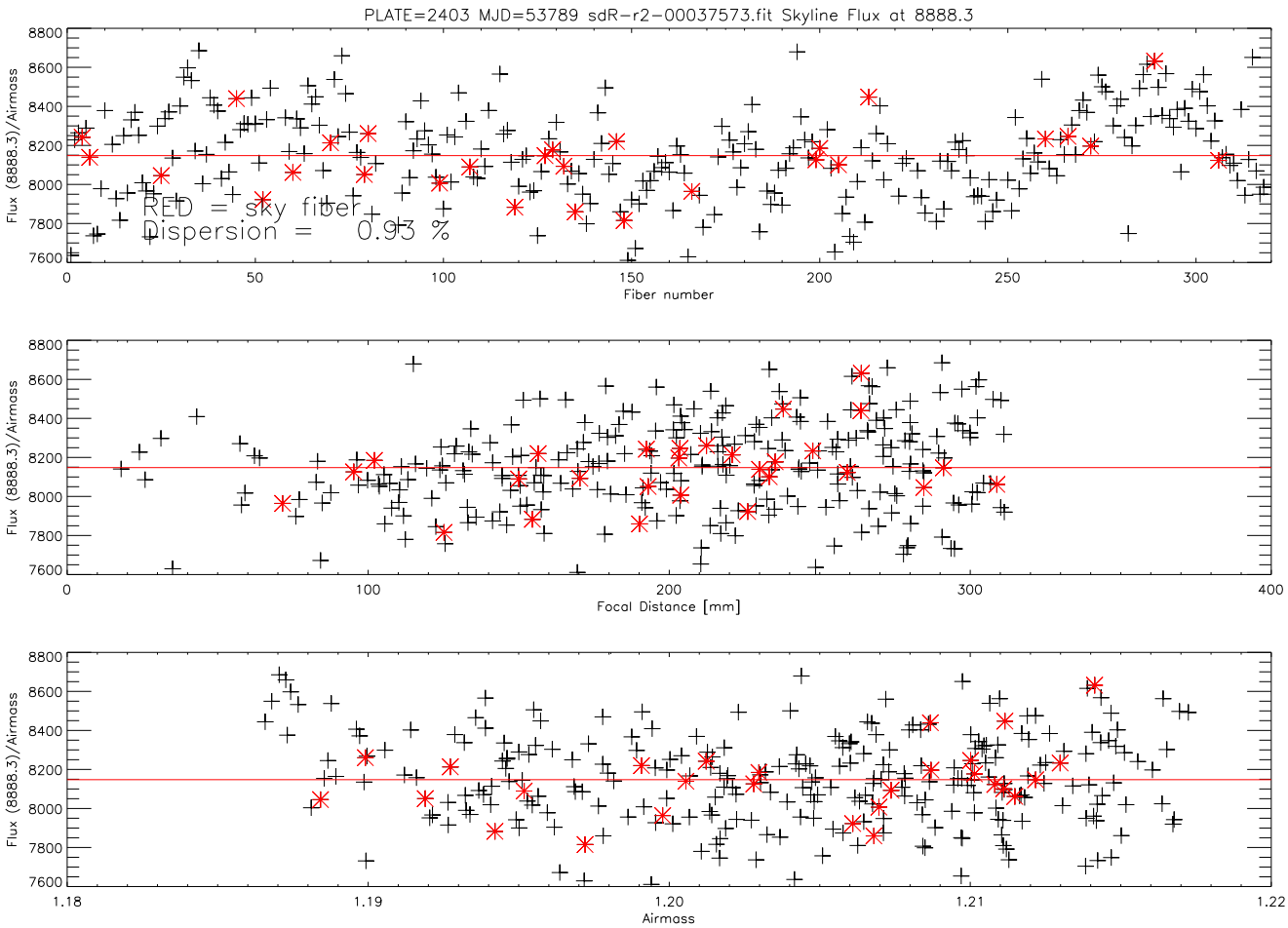

PLATE=2403 MJD=53789 sdR-r2-00037573.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
15
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number


PLATE=2403 MJD=53789 sdR-r2-00037573.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]


PLATE=2403 MJD=53789 sdR-r2-00037573.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]


Number of sky fibers = 28
PLATE=2403 MJD=53789 sdR-r2-00037573.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=2403 MJD=53789 sdR-r2-00037573.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.67 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass


PLATE=2403 MJD=53789 sdR-r2-00037573.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 0.93 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass