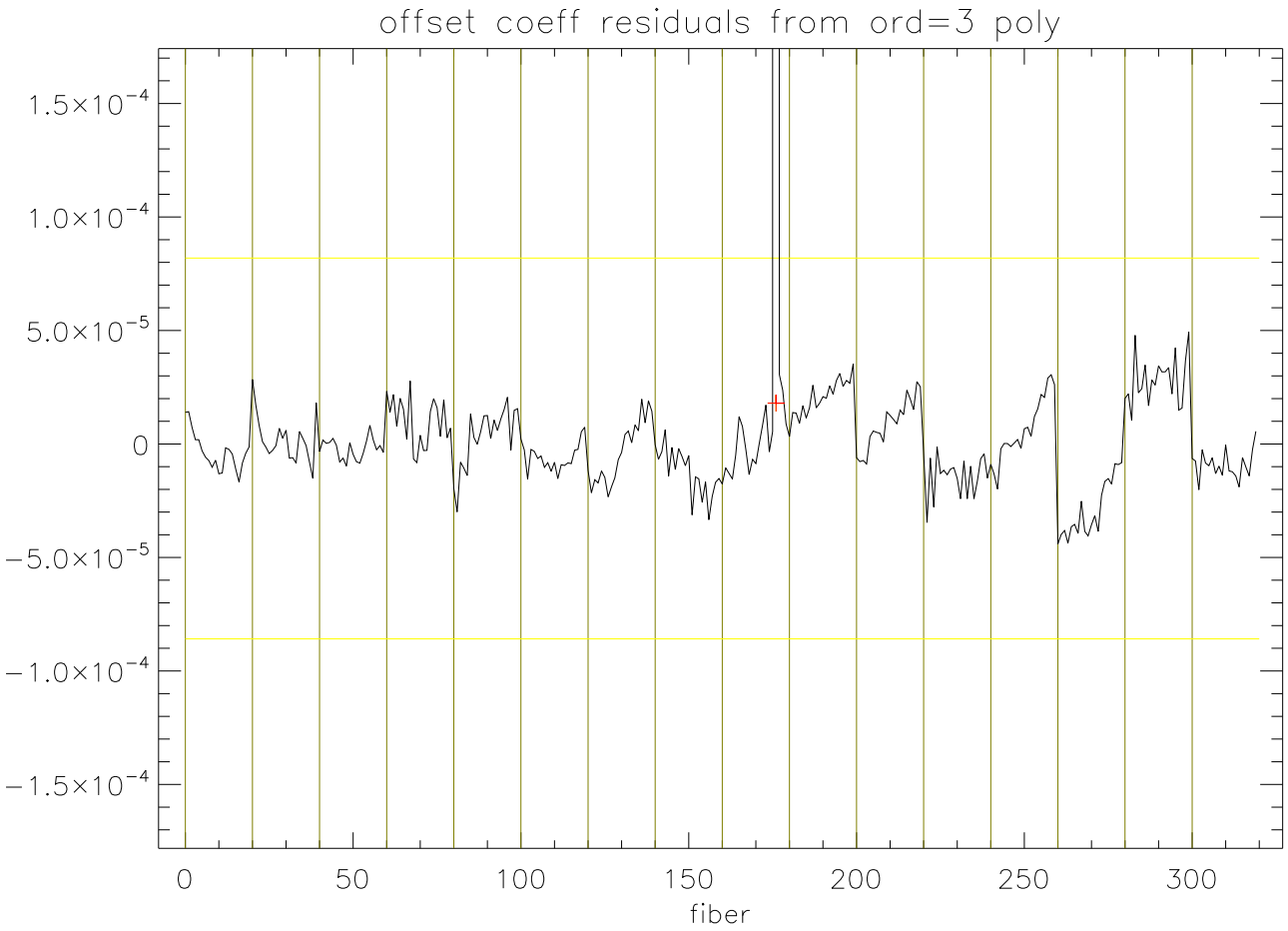
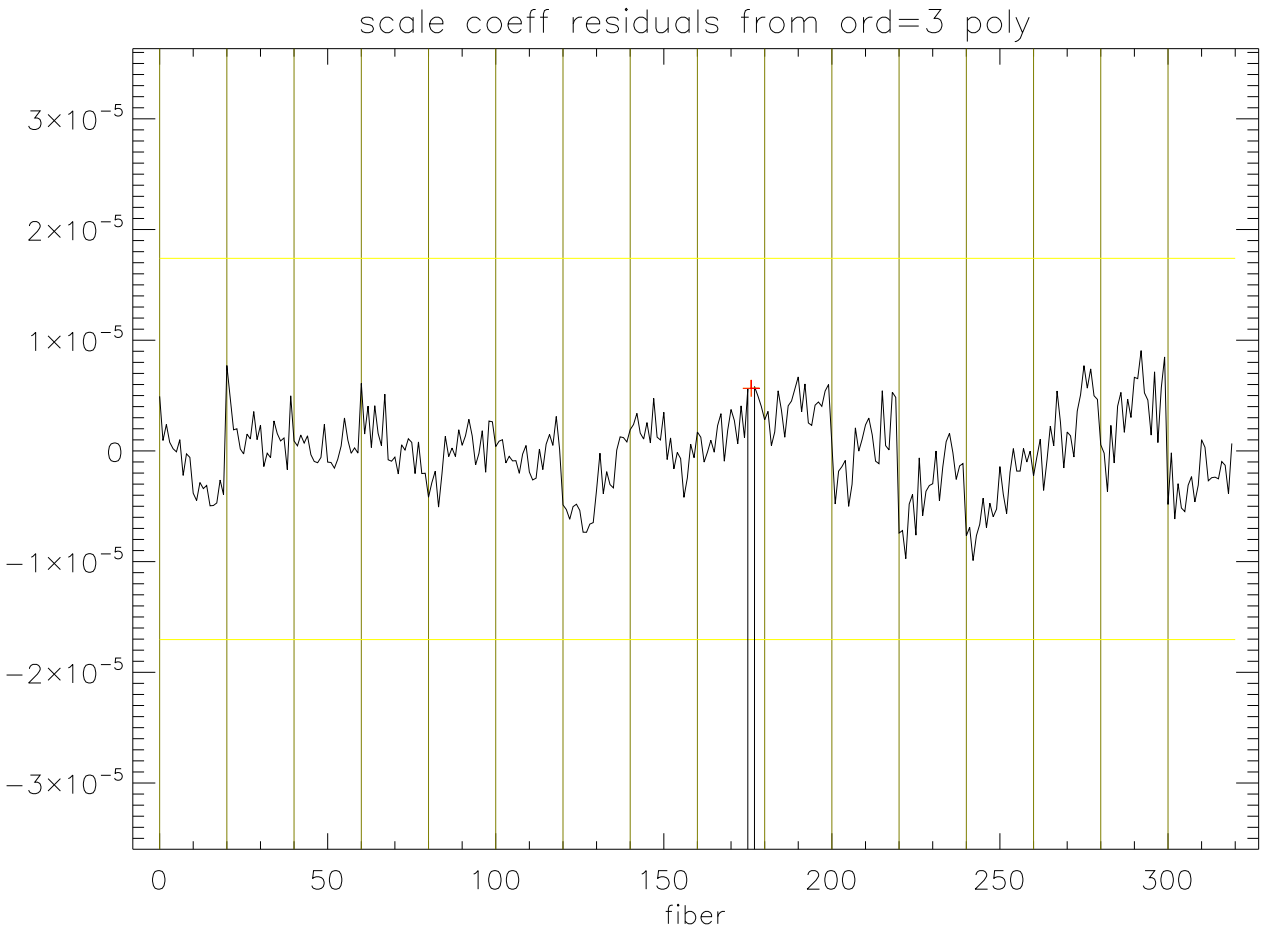
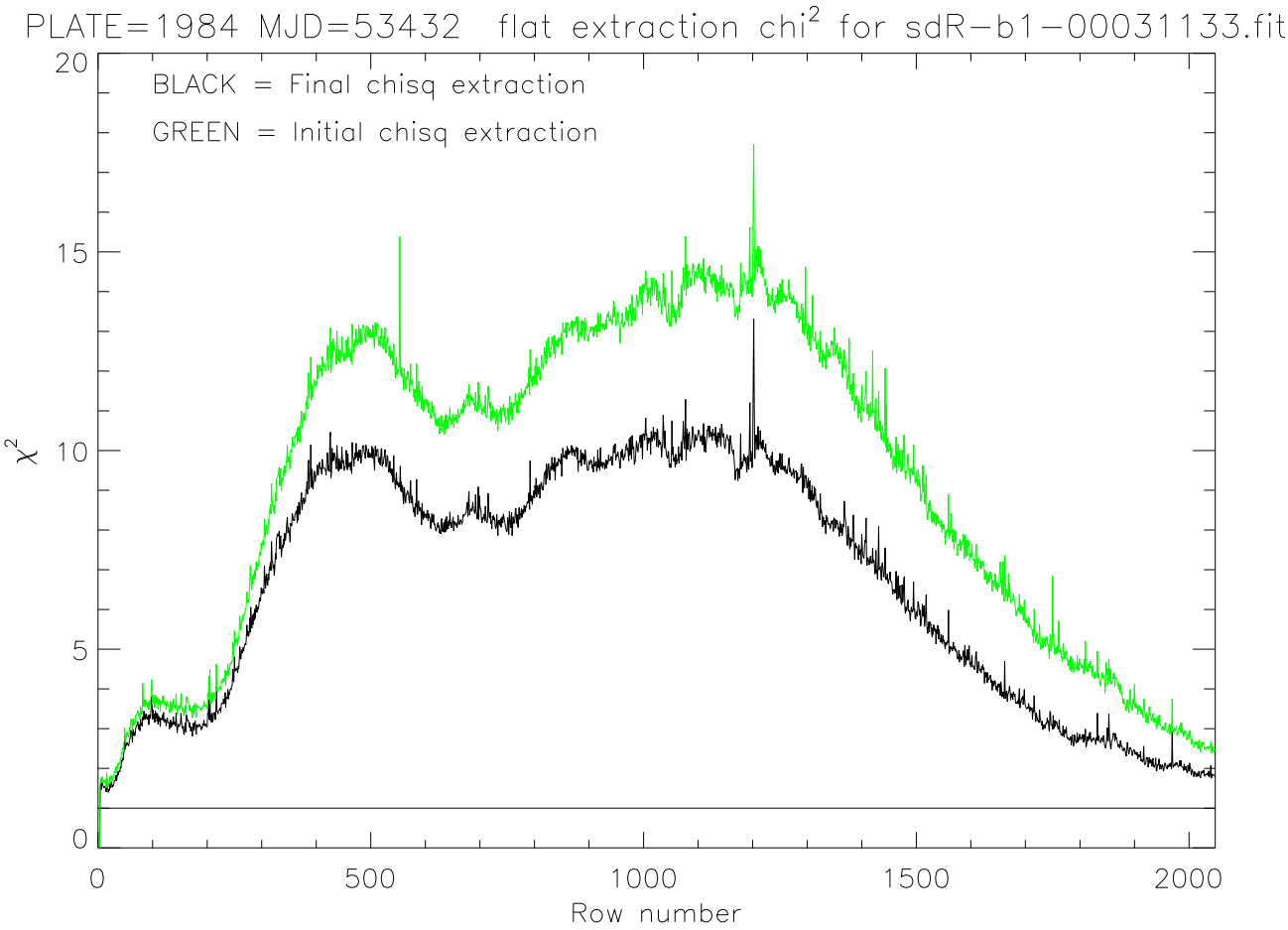
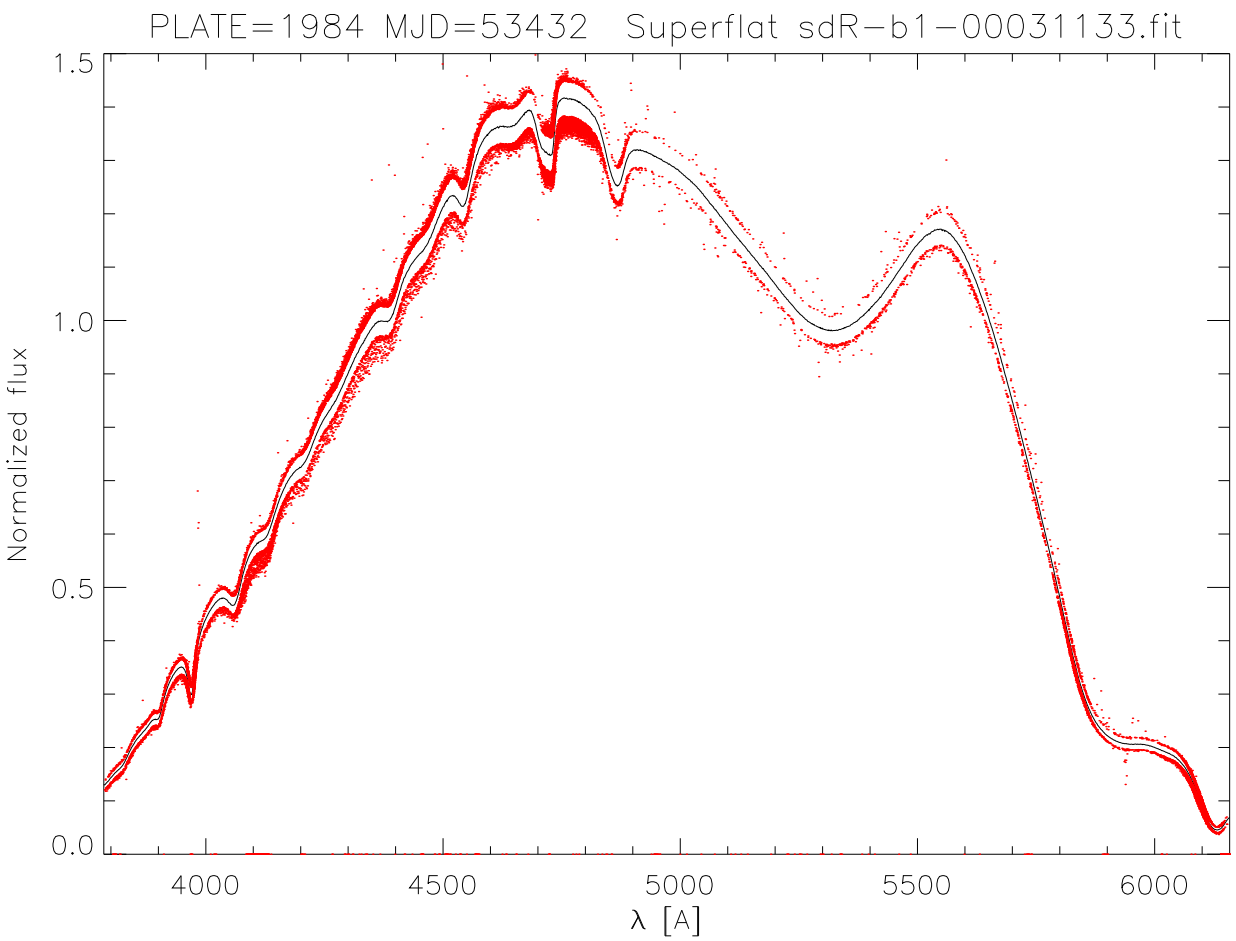
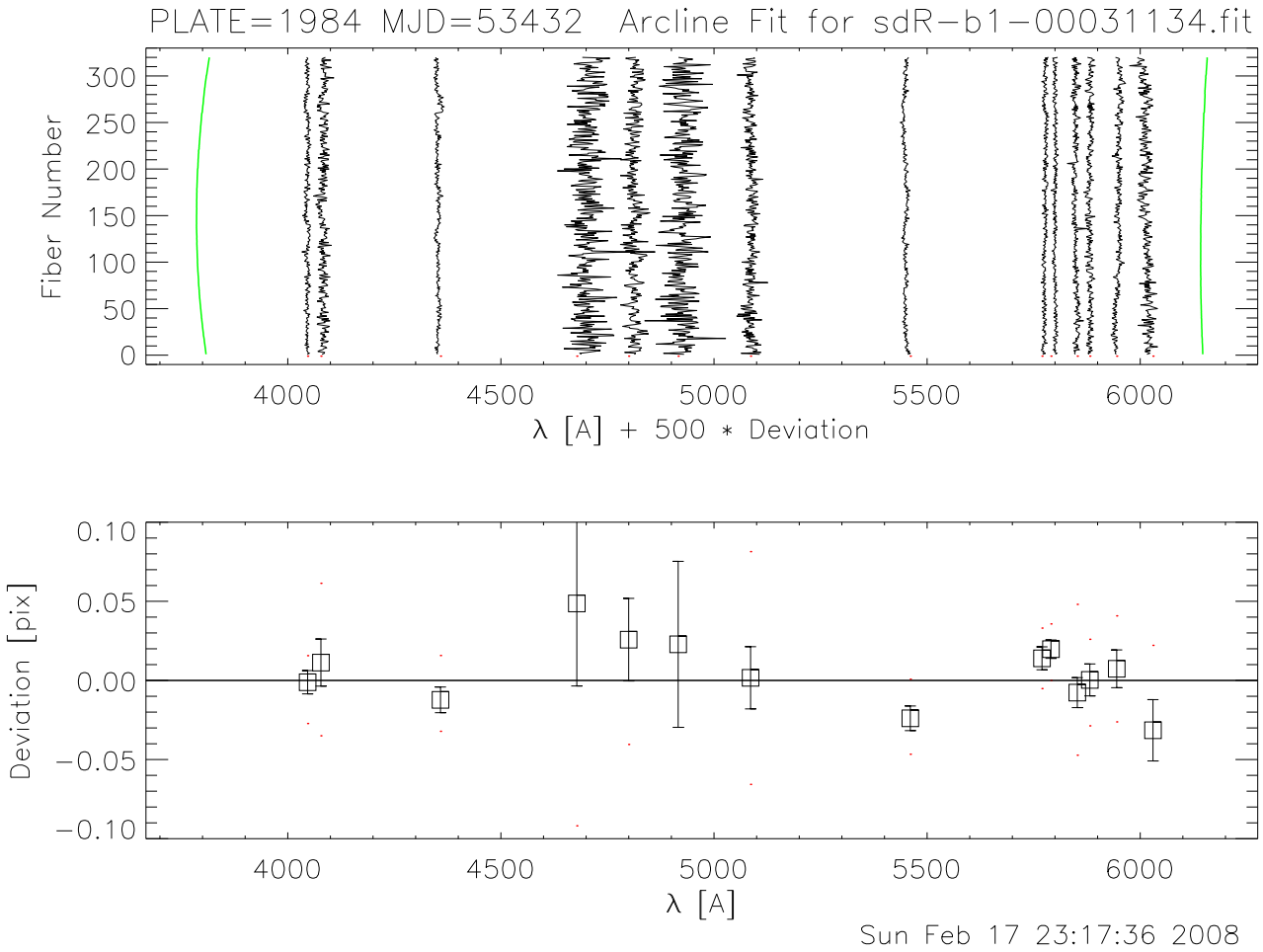
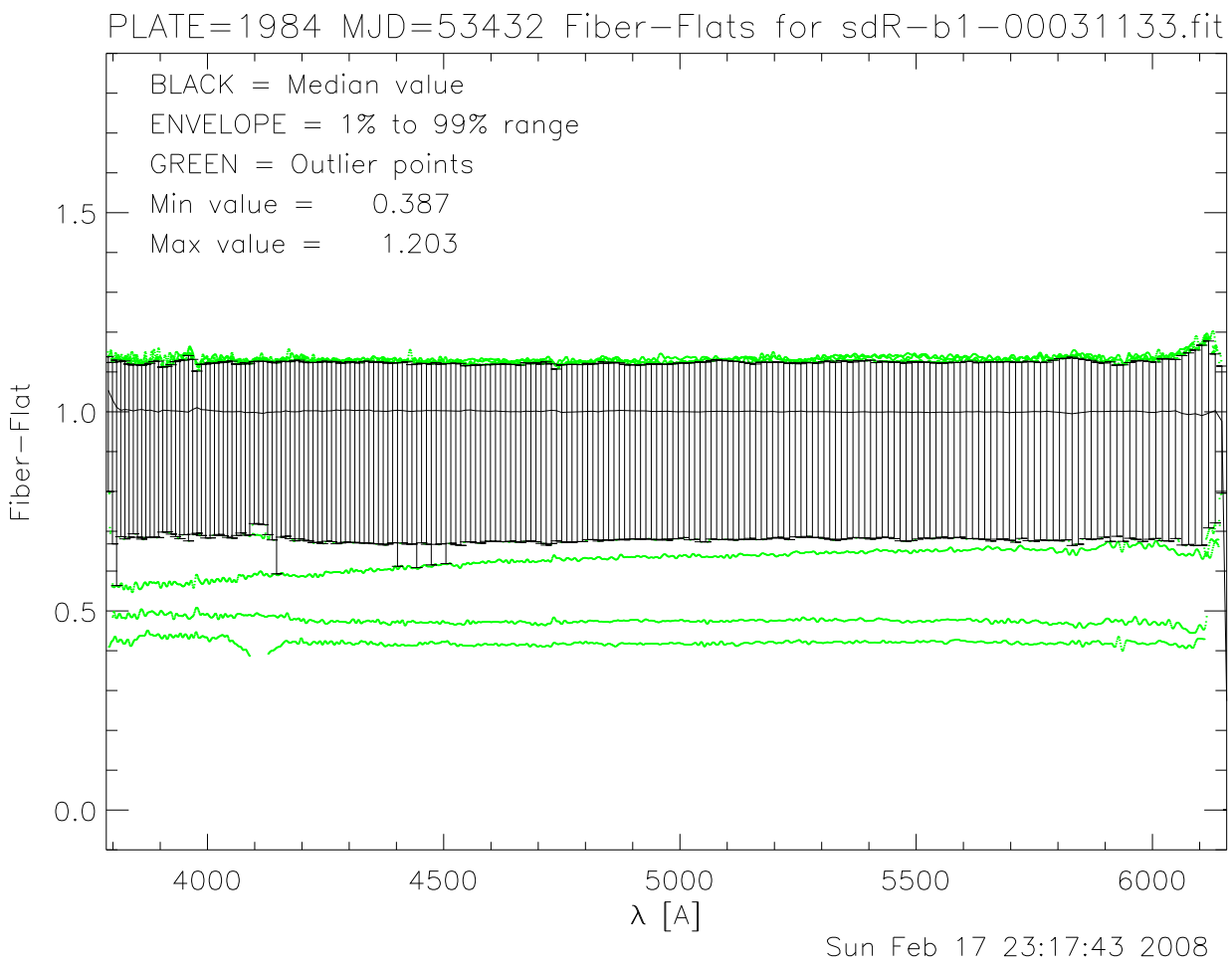

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

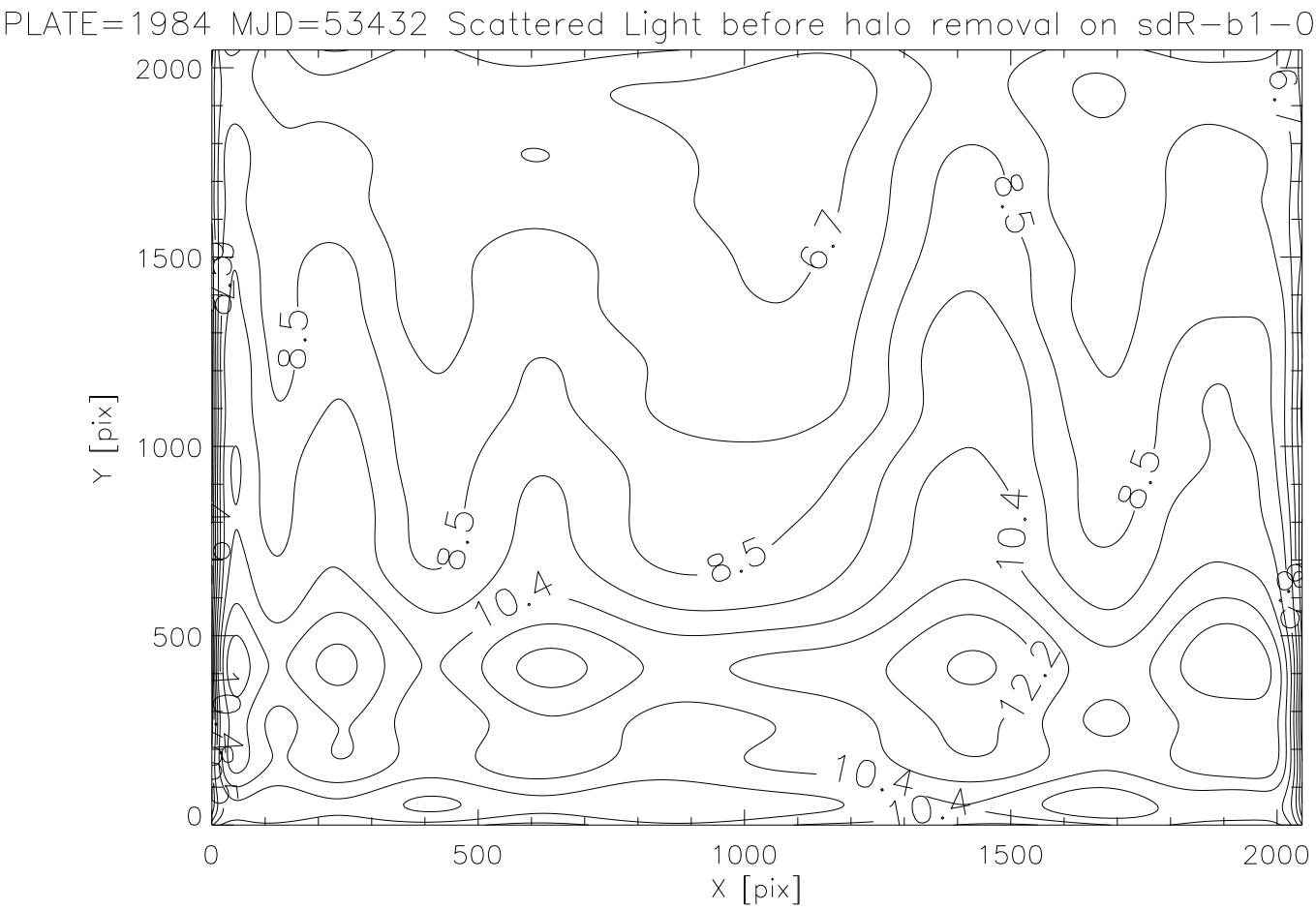

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

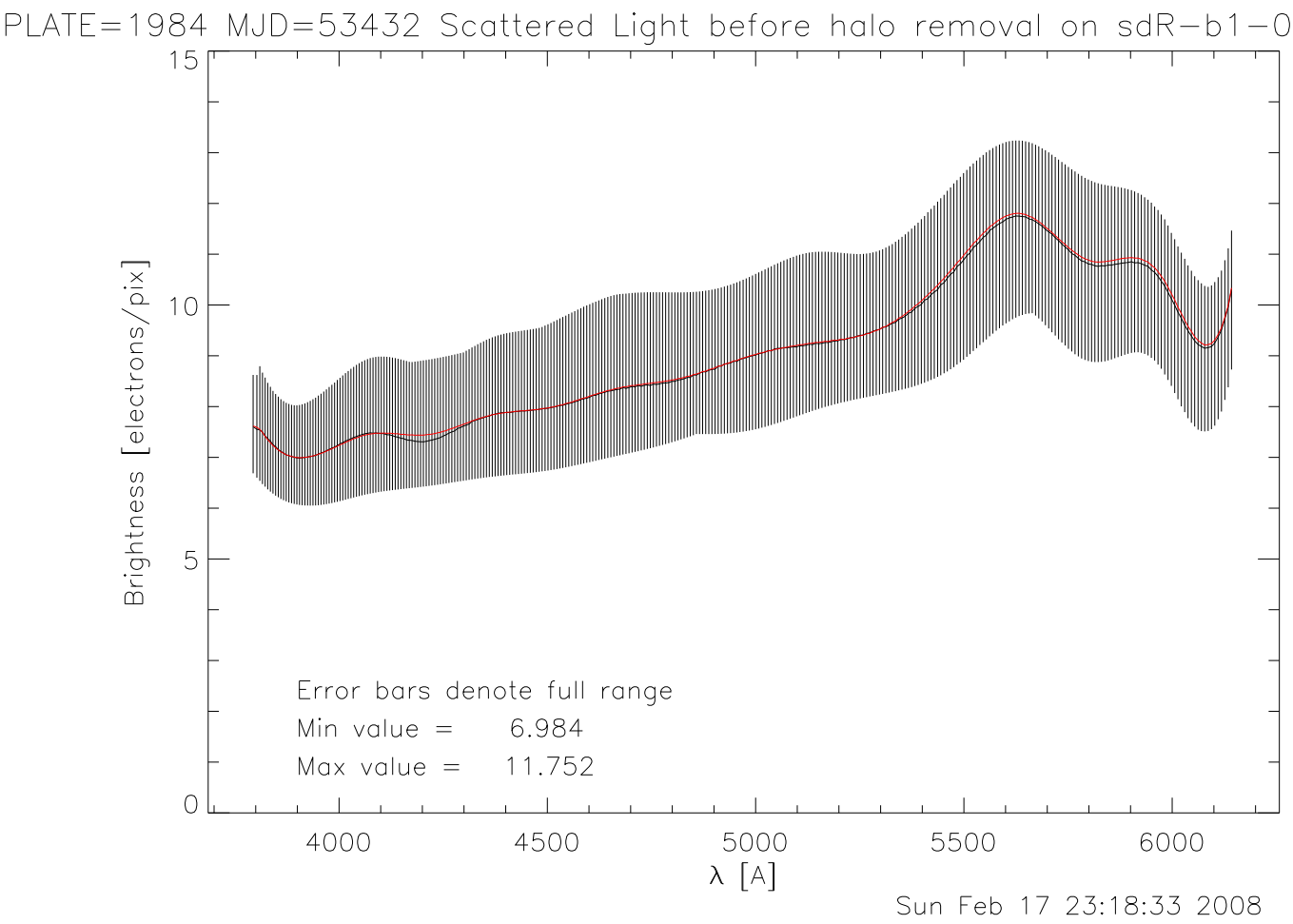

PLATE=1984 MJD=53432 flat extraction chi^2 for sdR−b1−00031133.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
5
10
15
20
0
500
1000
1500
2000
Row number

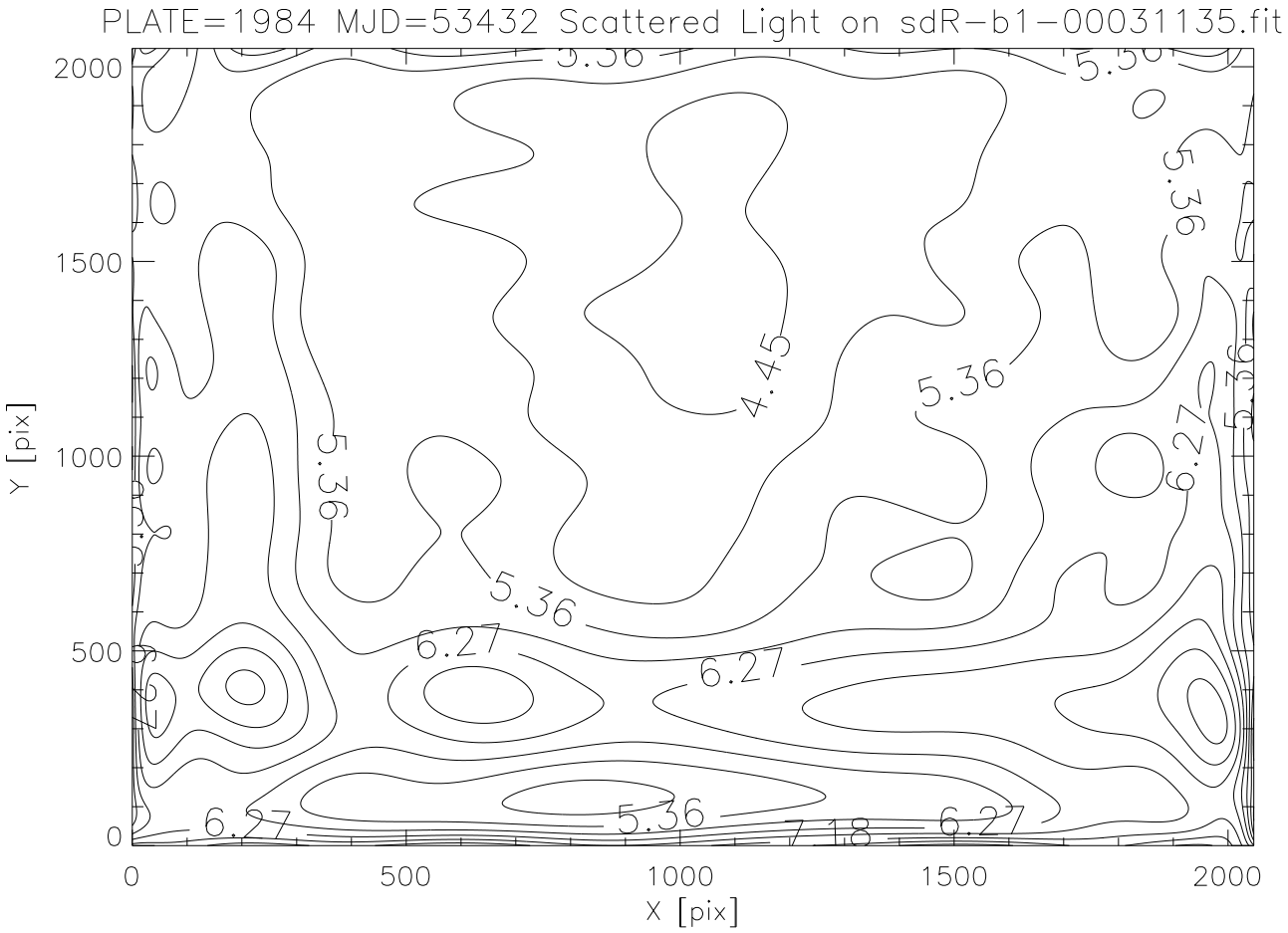

PLATE=1984 MJD=53432 Superflat sdR-b1-00031133.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

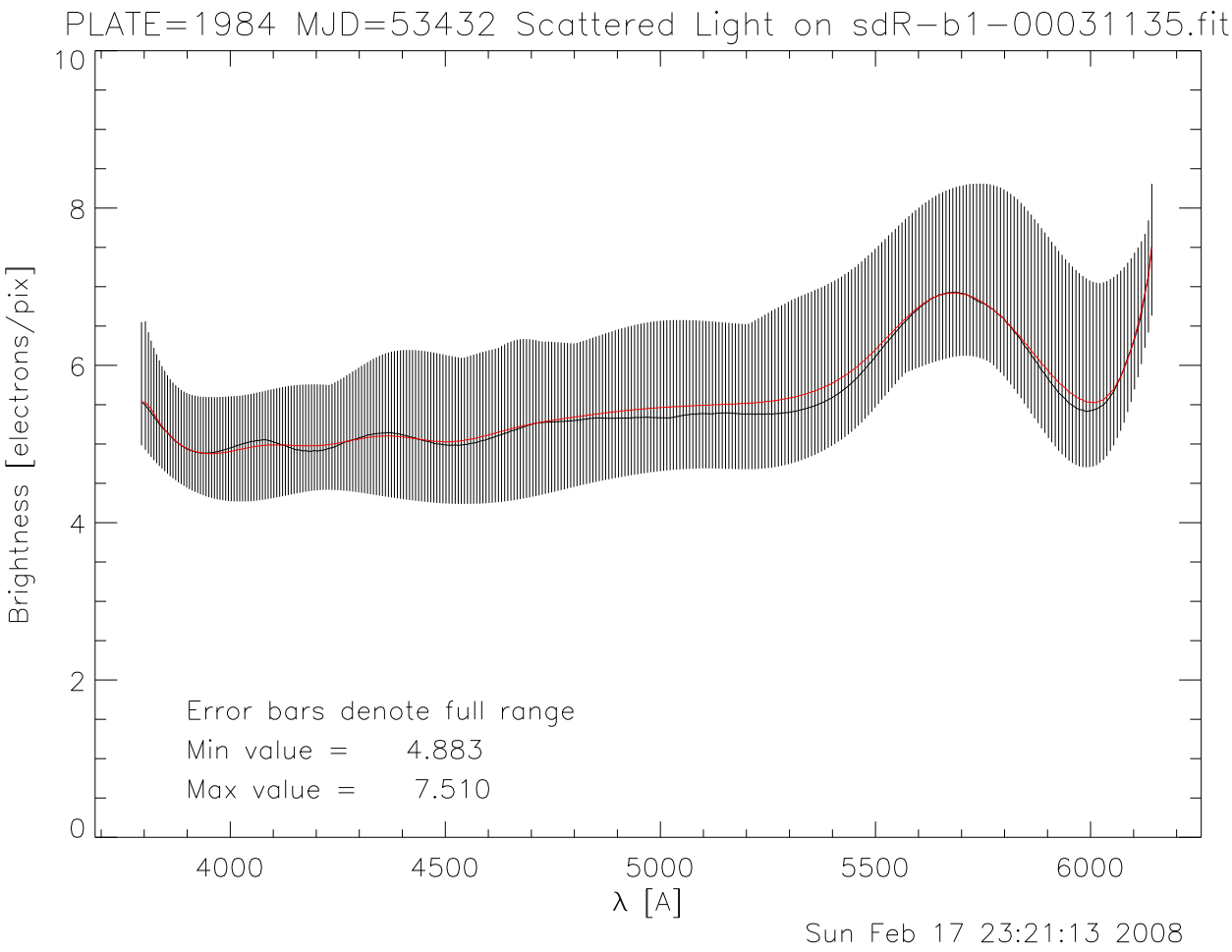

PLATE=1984 MJD=53432 Arcline Fit for sdR-b1-00031134.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
0.10
0.05
0.00
−0.05
−0.10
Deviation [pix]
4000
4500
5000
5500
6000
λ [A]
Sun Feb 17 23:17:36 2008

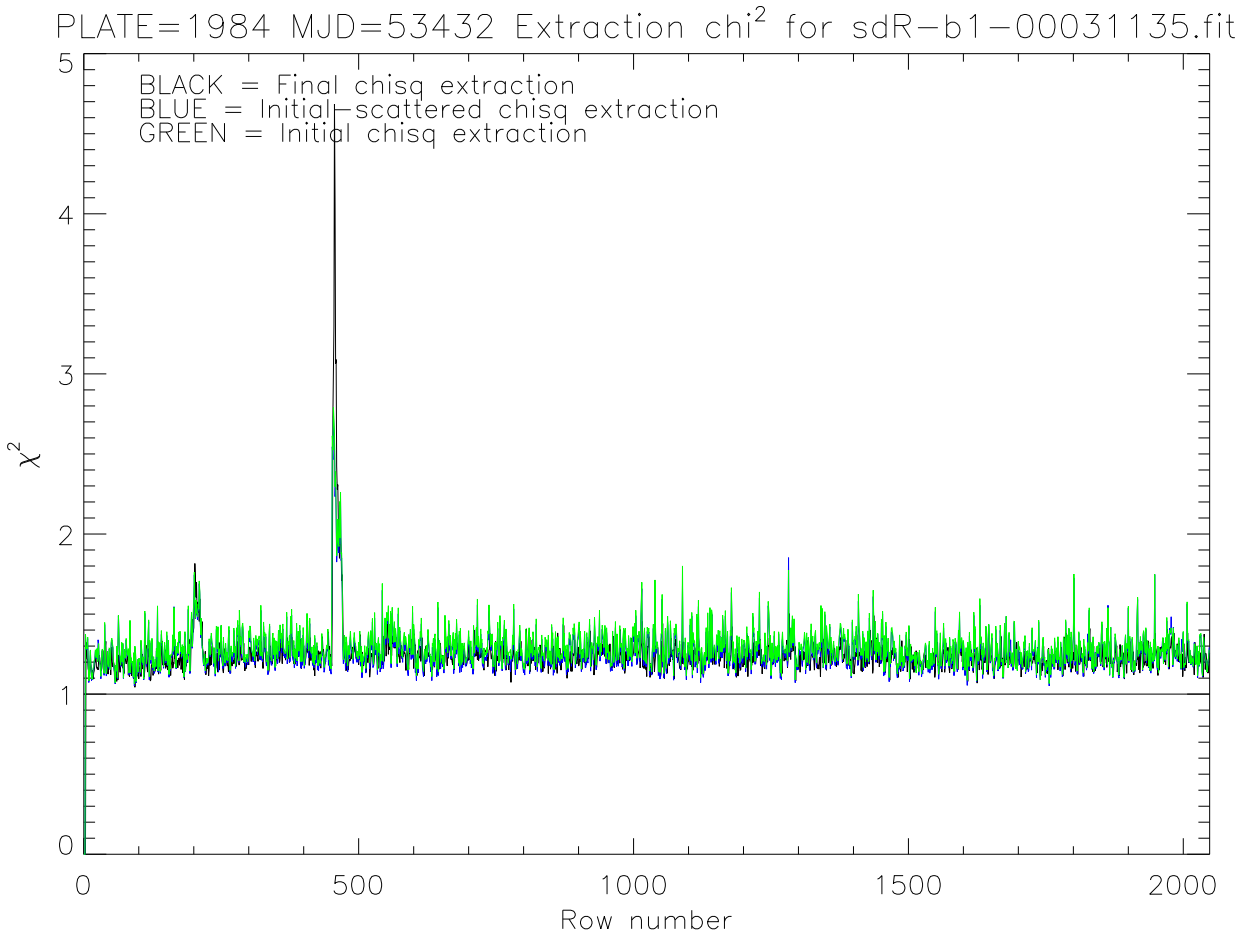

PLATE=1984 MJD=53432 Fiber−Flats for sdR−b1−00031133.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.387
Max value = 1.203
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sun Feb 17 23:17:43 2008

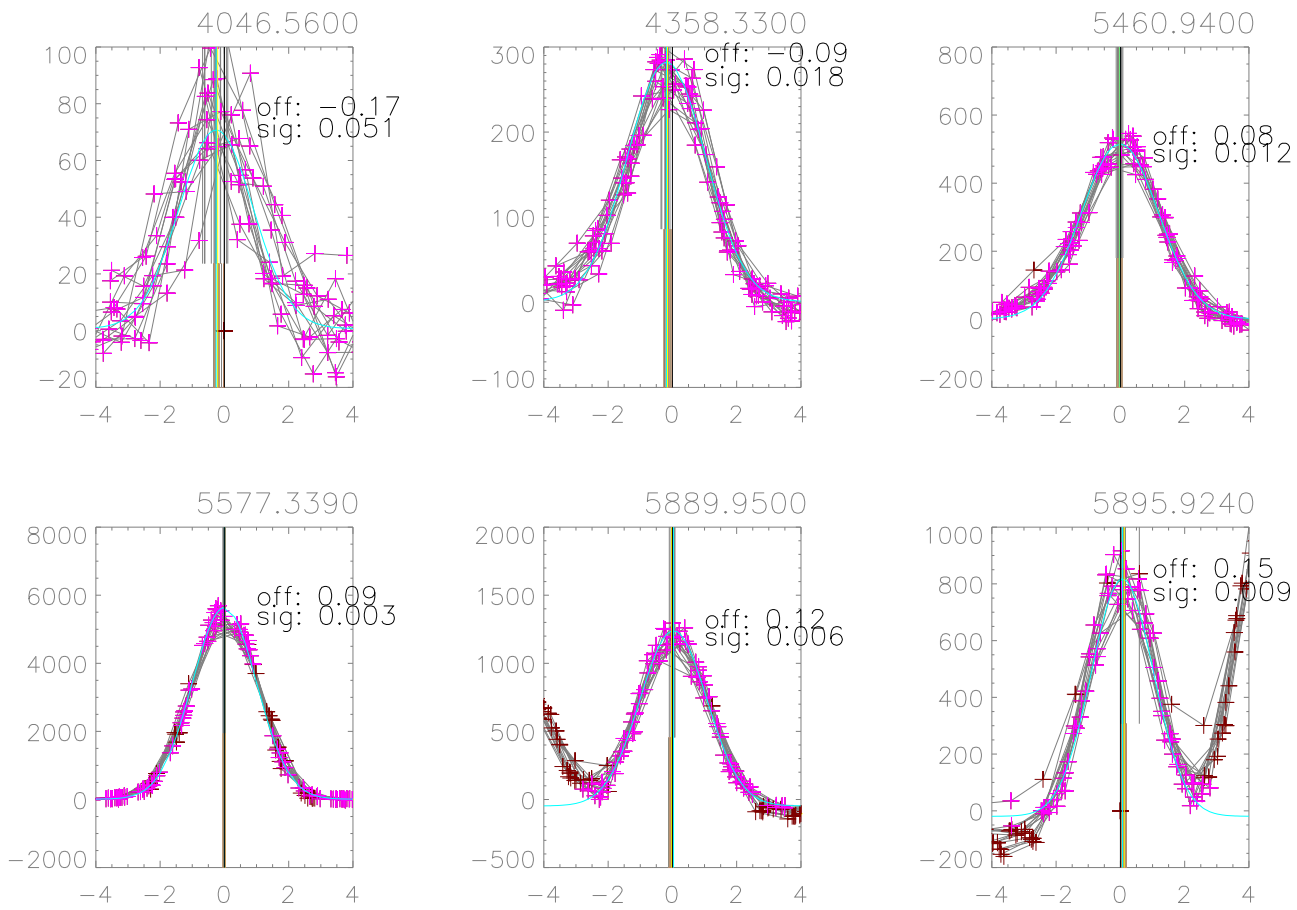

PLATE=1984 MJD=53432 Scattered Light before halo removal on sdR-b1-00031135.f
Y [pix]
X [pix]
0
500
1000
1500
2000
6.7
8.5
10.4
12.2

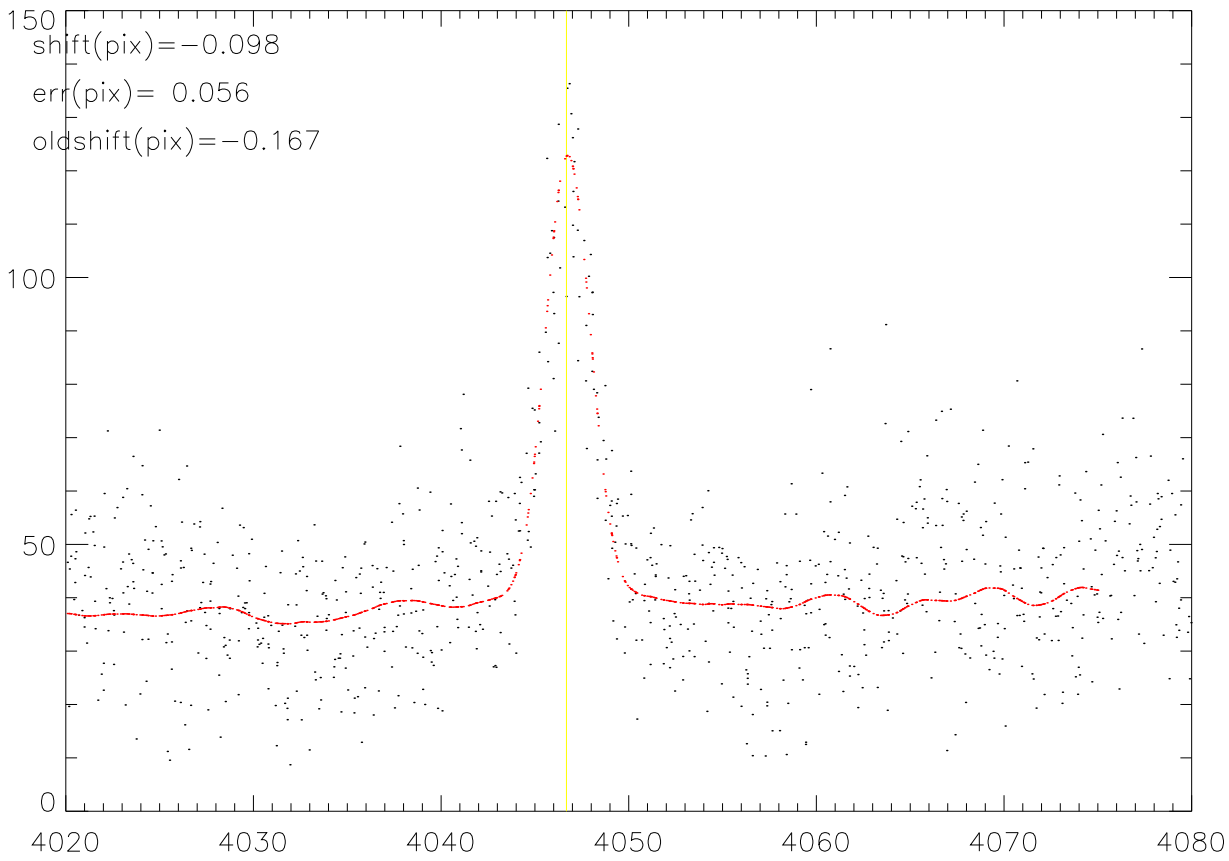

PLATE=1984 MJD=53432 Scattered Light before halo removal on sdR-b1-00031135.f
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 6.984
Max value = 11.752
Sun Feb 17 23:18:33 2008

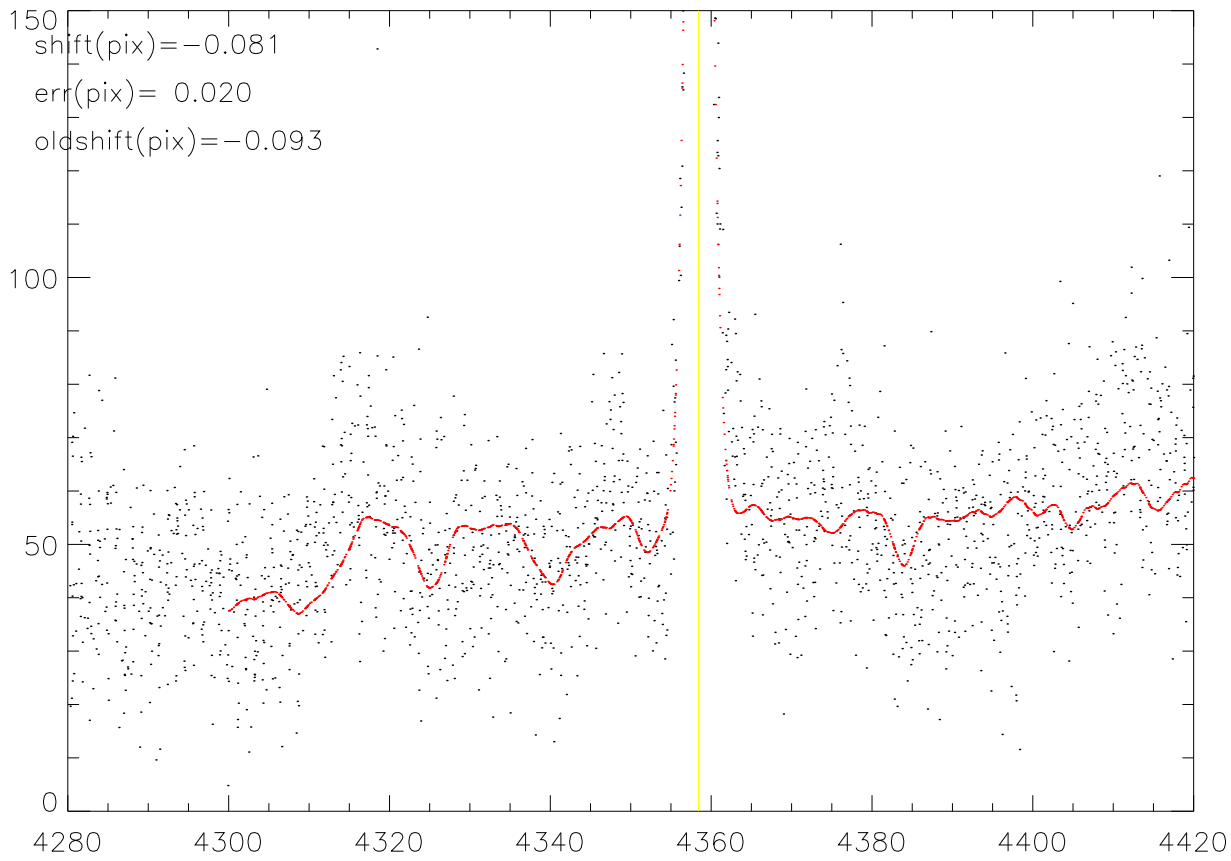

PLATE=1984 MJD=53432 Scattered Light on sdR−b1−00031135.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
5.36
4.45
6.27
7.18

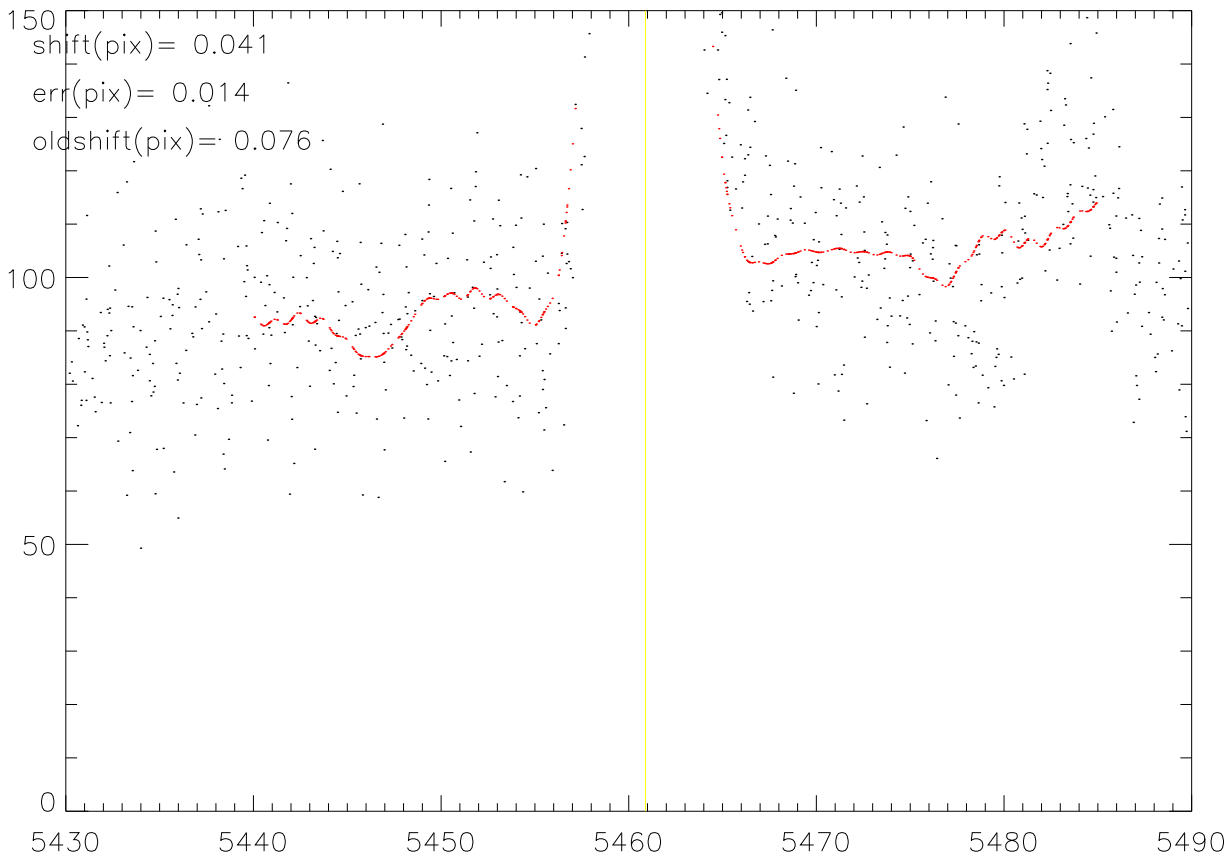

PLATE=1984 MJD=53432 Scattered Light on sdR-b1-00031135.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.883
Max value = 7.510
Sun Feb 17 23:21:13 2008

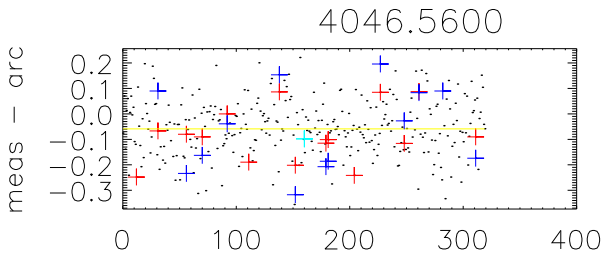

PLATE=1984 MJD=53432 Extraction chi^2 for sdR-b1-00031135.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
500
1000
1500
2000
0
1
2
3
4
5

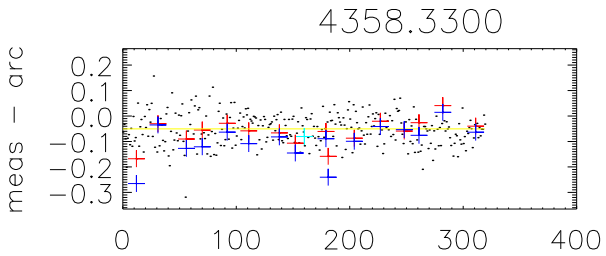

4046.5600
off: −0.17
sig: 0.051
4358.3300
off: −0.09
sig: 0.018
5460.9400
off: 0.08
sig: 0.012
5577.3390
off: 0.09
sig: 0.003
5889.9500
off: 0.12
sig: 0.006
5895.9240
off: 0.15
sig: 0.009

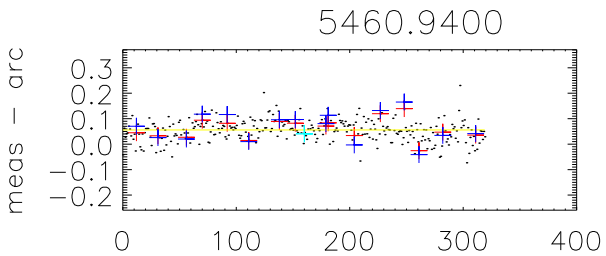

shift(pix)=−0.098
err(pix)= 0.056
oldshift(pix)=−0.167
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

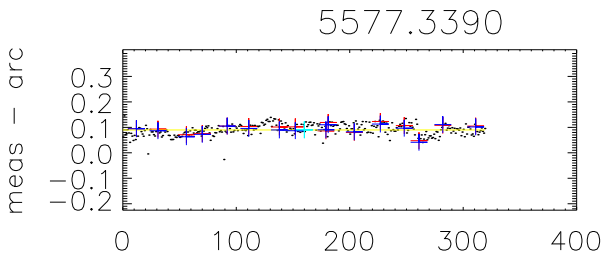

shift(pix)=−0.081
err(pix)= 0.020
oldshift(pix)=−0.093
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

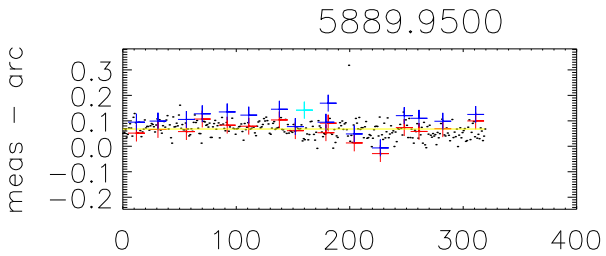

shift(pix)= 0.041
err(pix)= 0.014
oldshift(pix)= 0.076
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

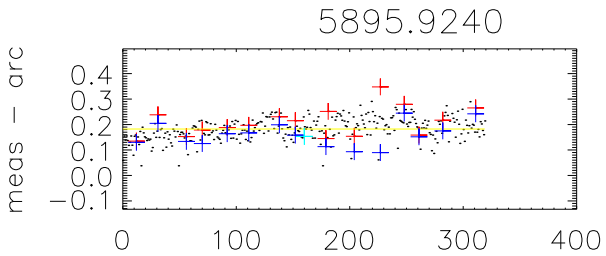

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

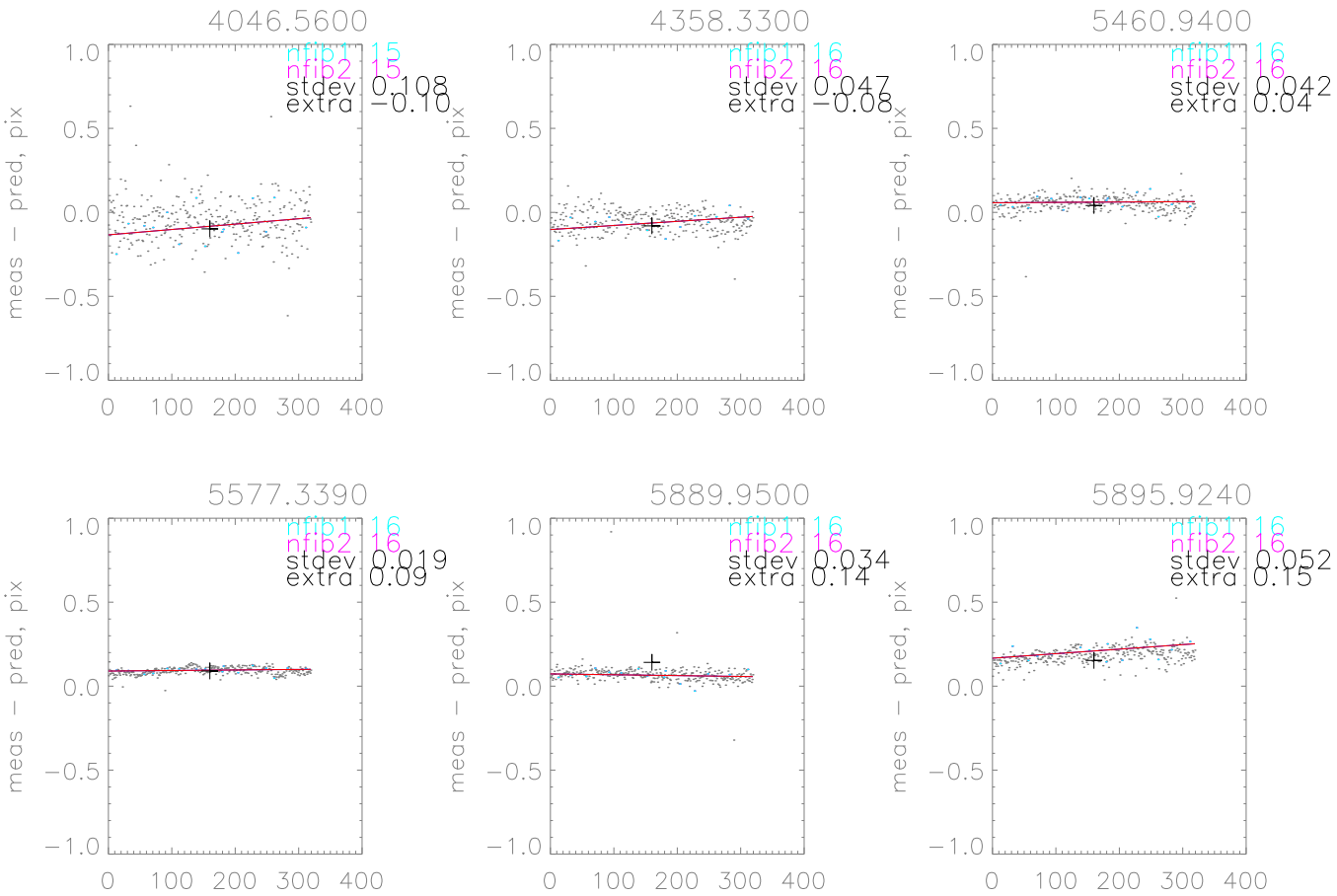

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

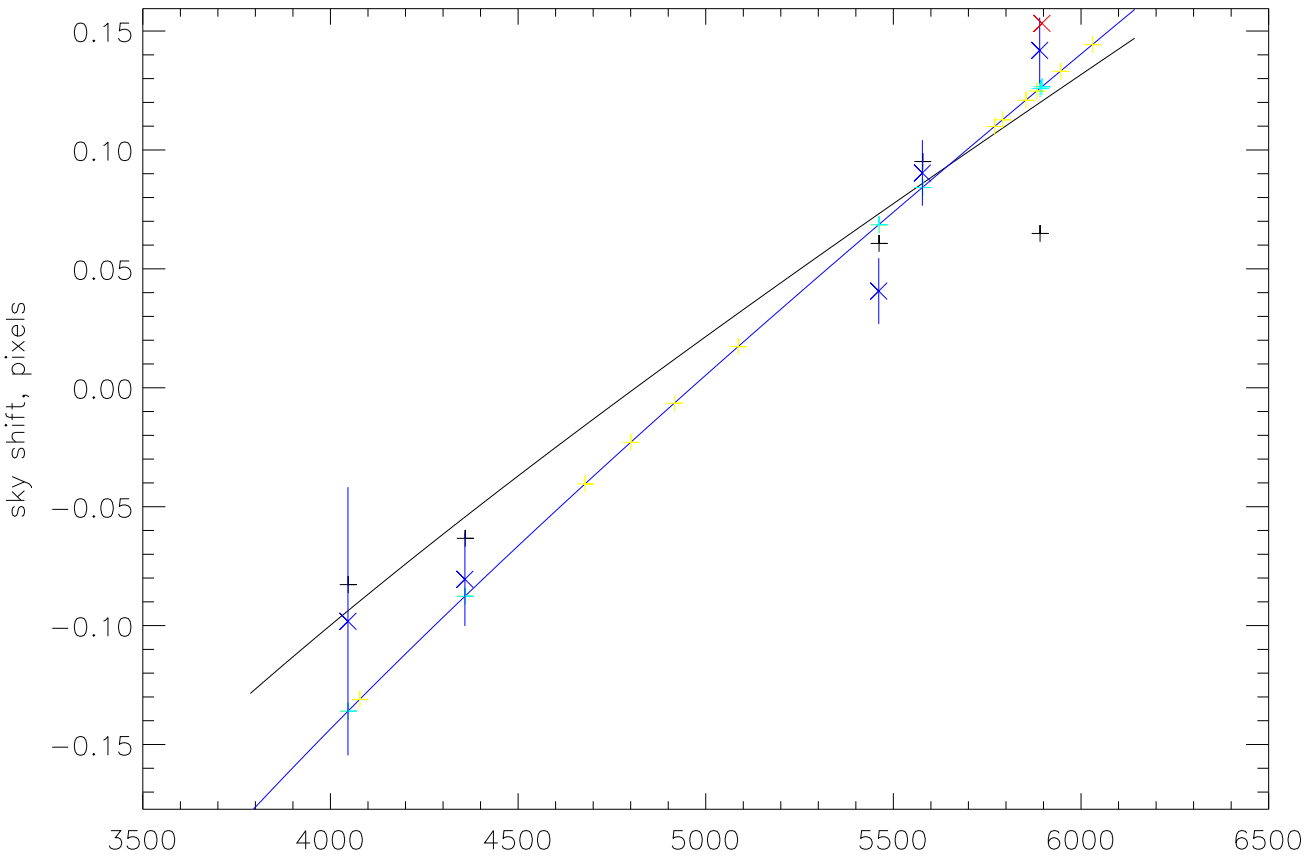

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

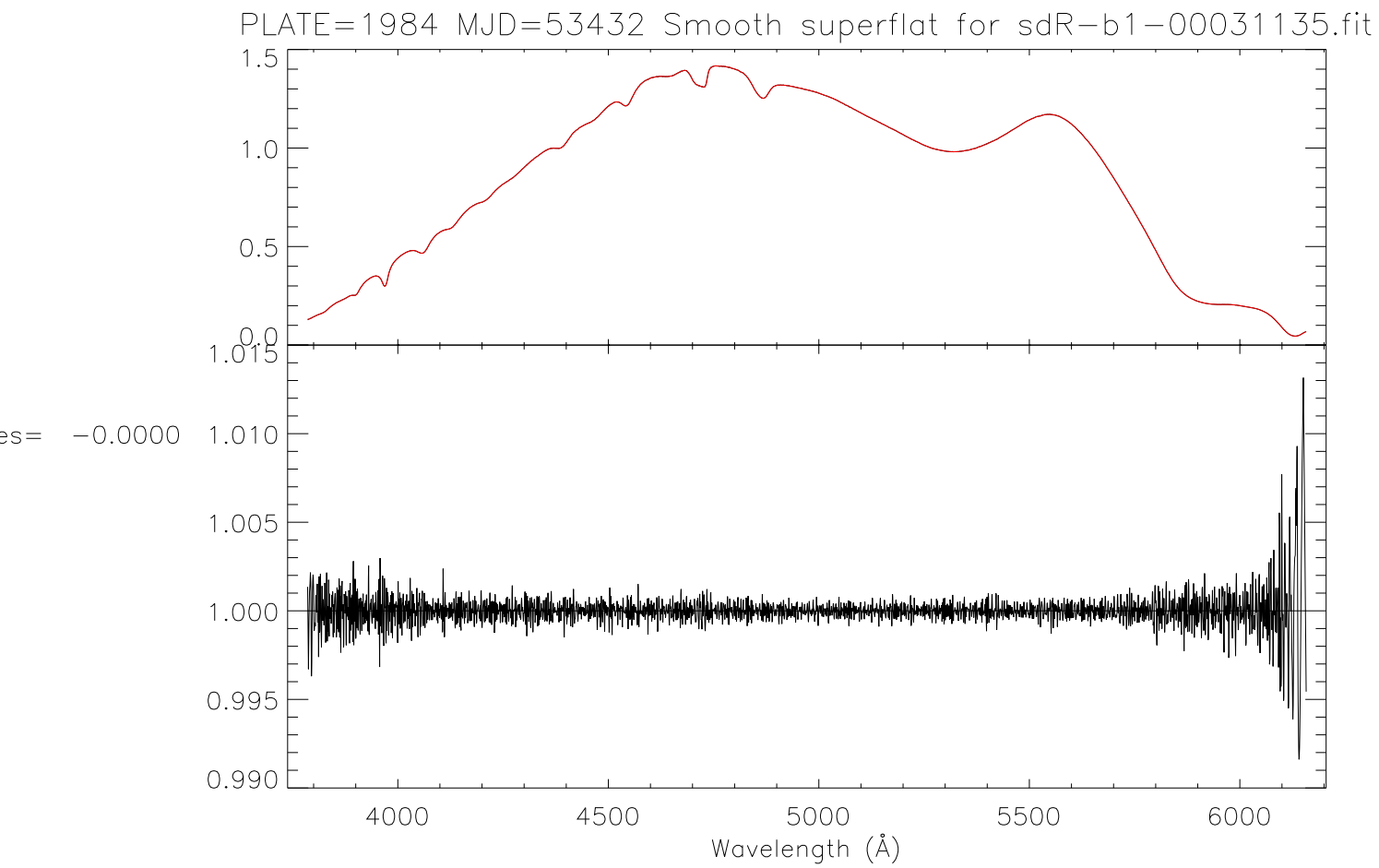

5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

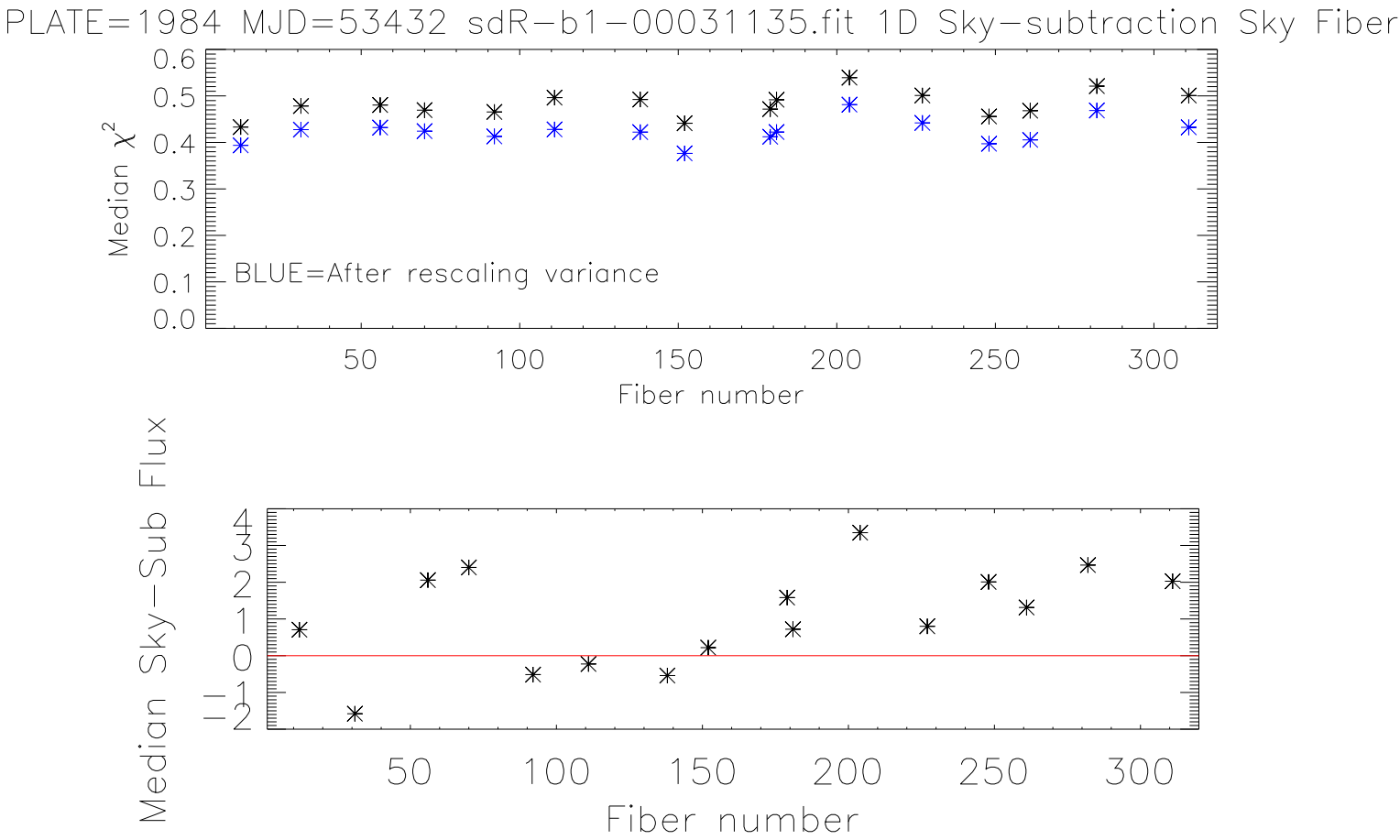

5889.9500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

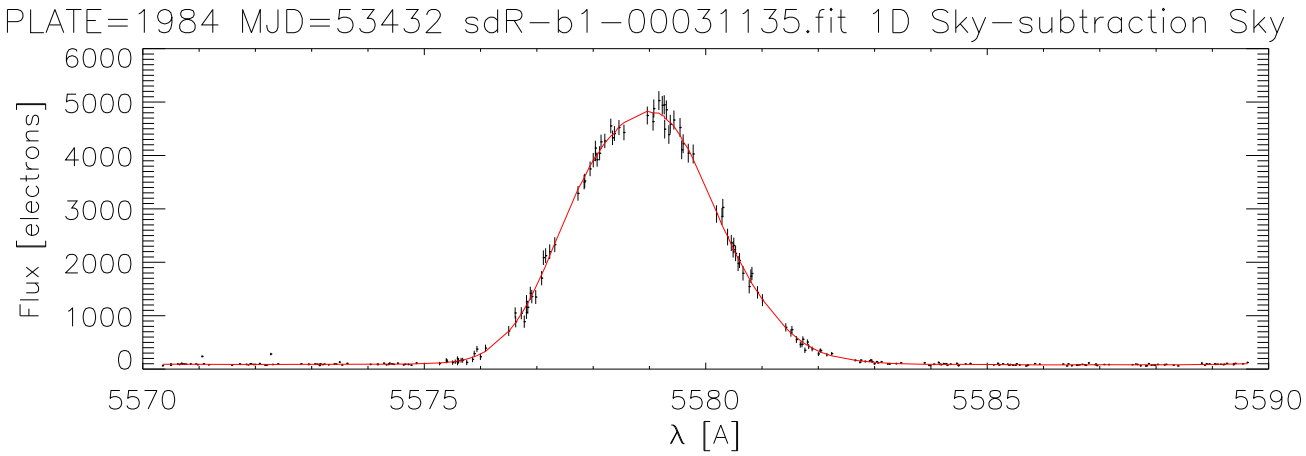

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

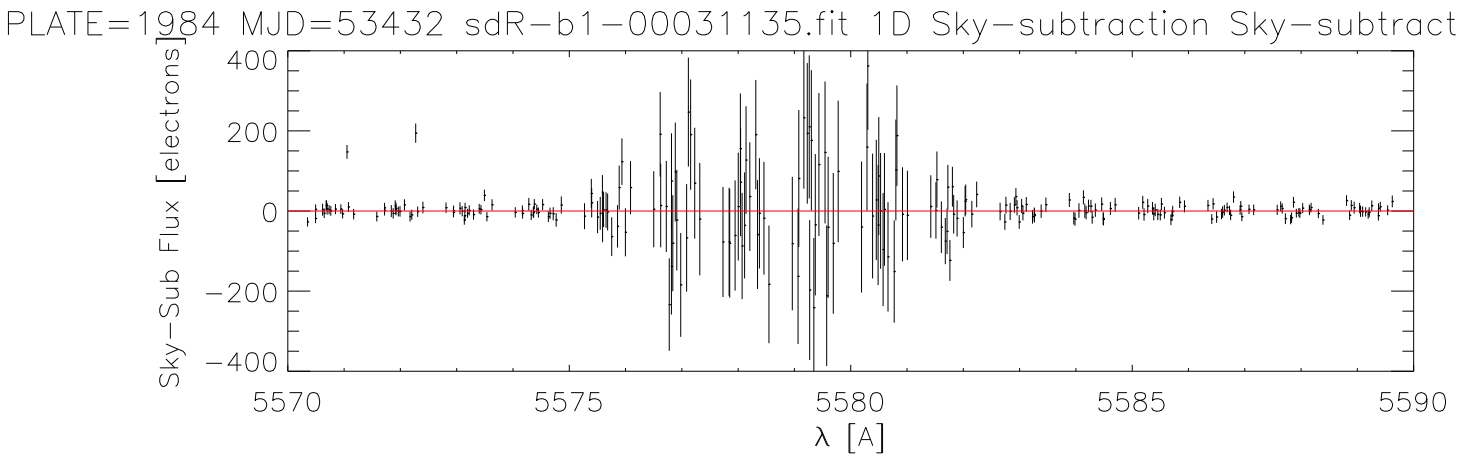

4046.5600
nfib1 15
nfib2 15
stdev 0.108
extra −0.10
4358.3300
nfib1 16
nfib2 16
stdev 0.047
extra −0.08
5460.9400
nfib1 16
nfib2 16
stdev 0.042
extra 0.04
5577.3390
nfib1 16
nfib2 16
stdev 0.019
extra 0.09
5889.9500
nfib1 16
nfib2 16
stdev 0.034
extra 0.14
5895.9240
nfib1 16
nfib2 16
stdev 0.052
extra 0.15
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

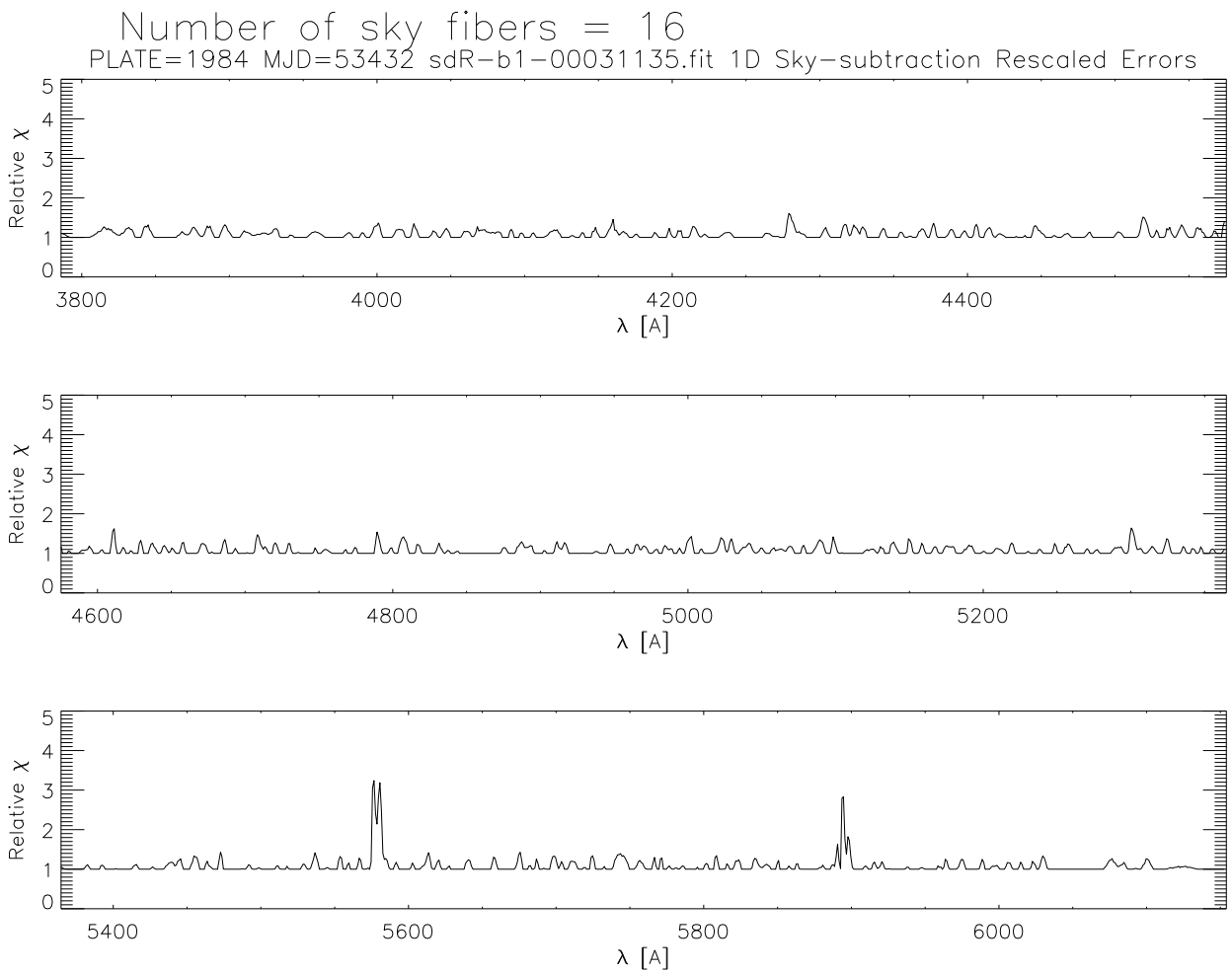

0.15
0.10
0.05
0.00
−0.05
−0.10
−0.15
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

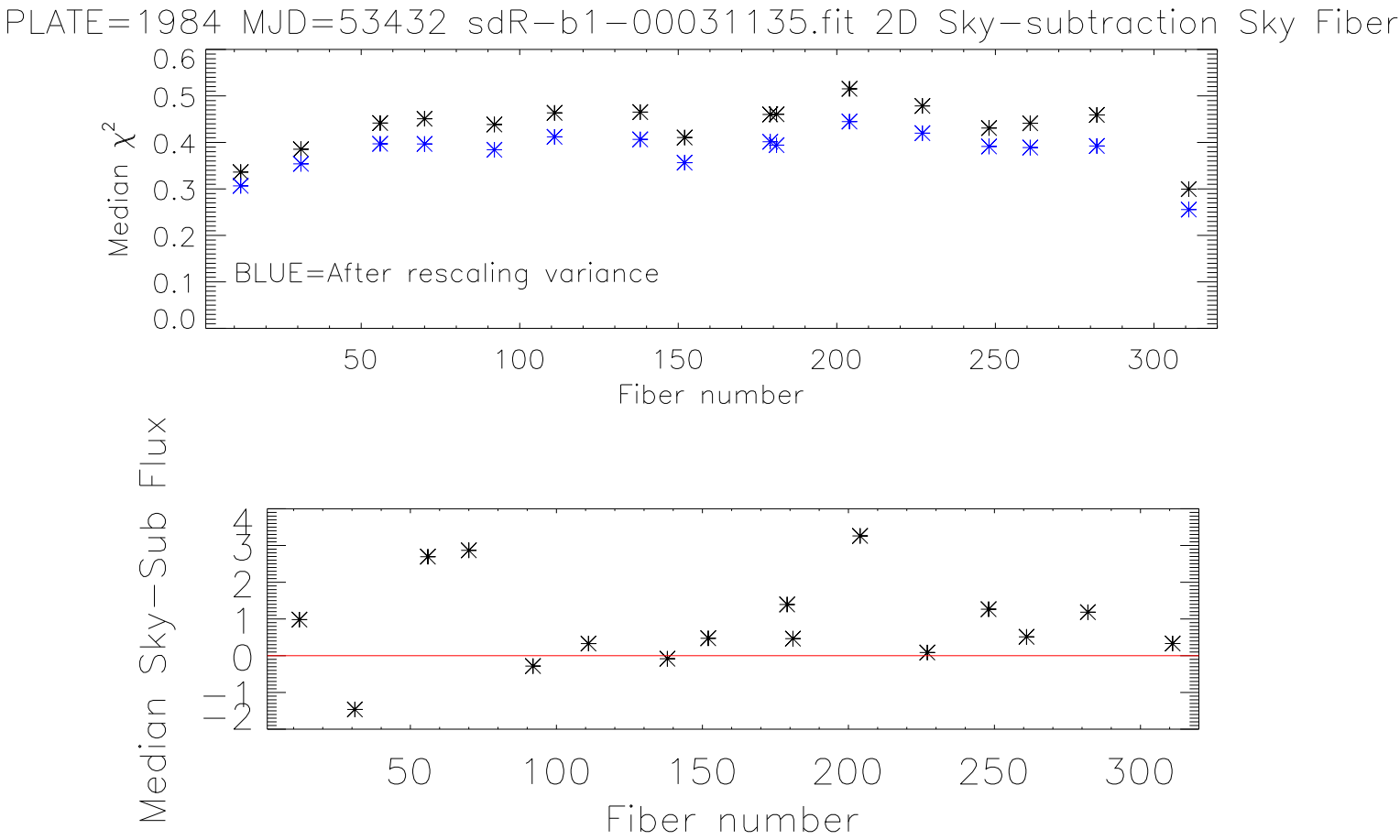

PLATE=1984 MJD=53432 Smooth superflat for sdR-b1-00031135.fit
1.5
1.0
0.5
0.0
1.015
1.010
1.005
1.000
0.995
0.990
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

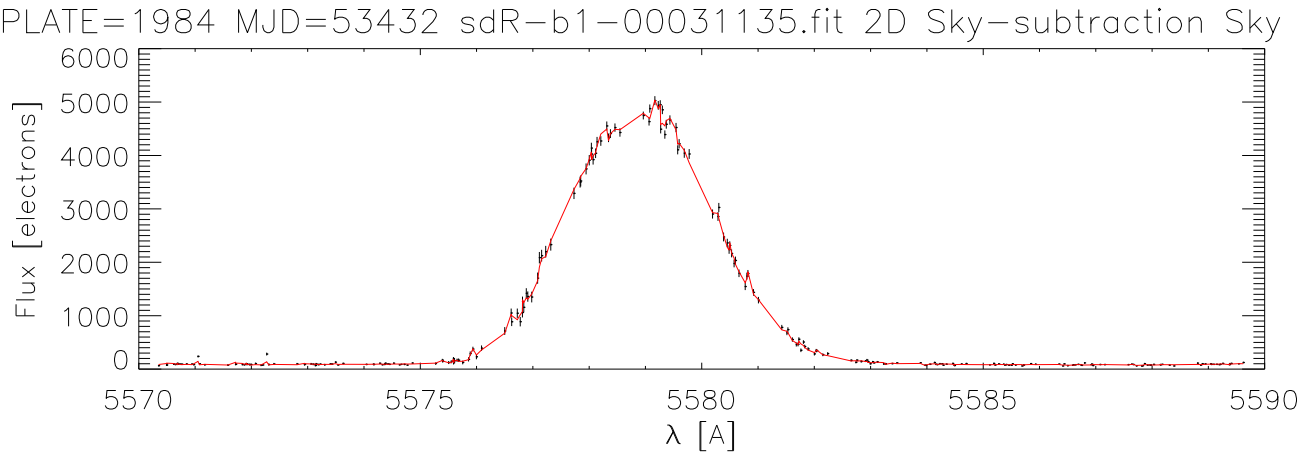

PLATE=1984 MJD=53432 sdR-b1-00031135.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
4
50
100
150
200
250
300
Fiber number

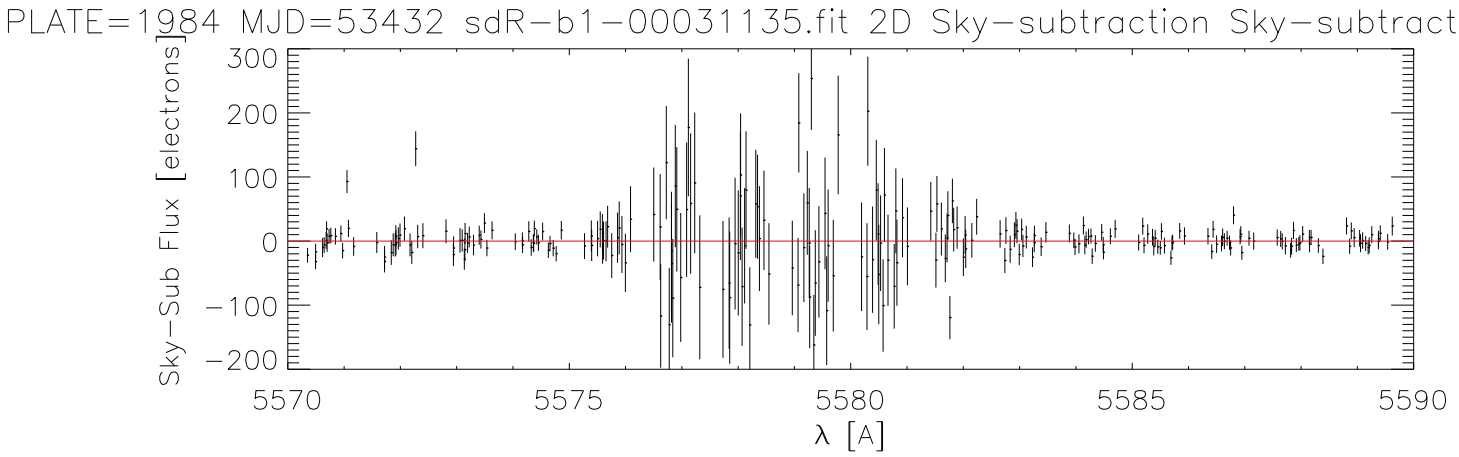

PLATE=1984 MJD=53432 sdR-b1-00031135.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

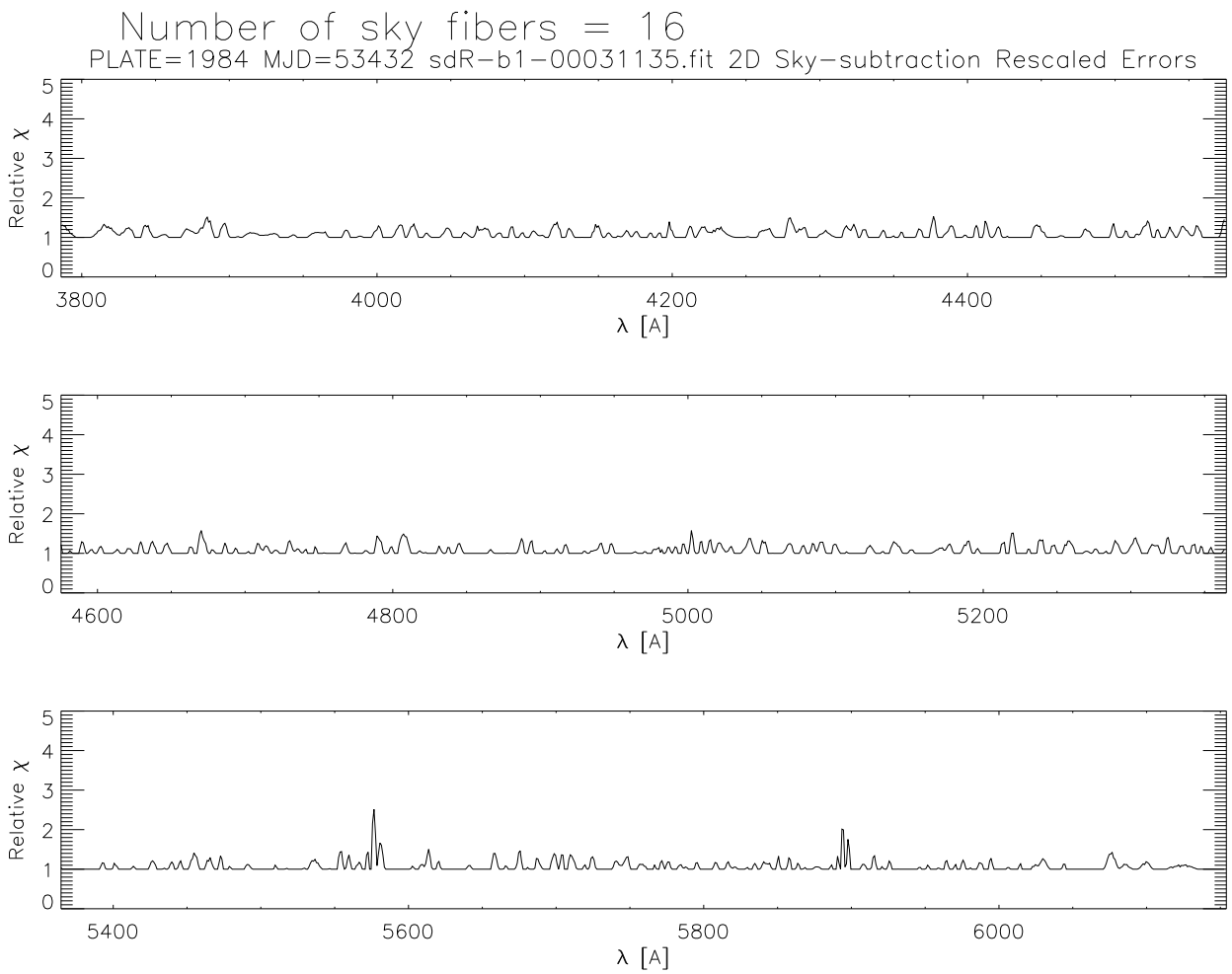

PLATE=1984 MJD=53432 sdR-b1-00031135.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

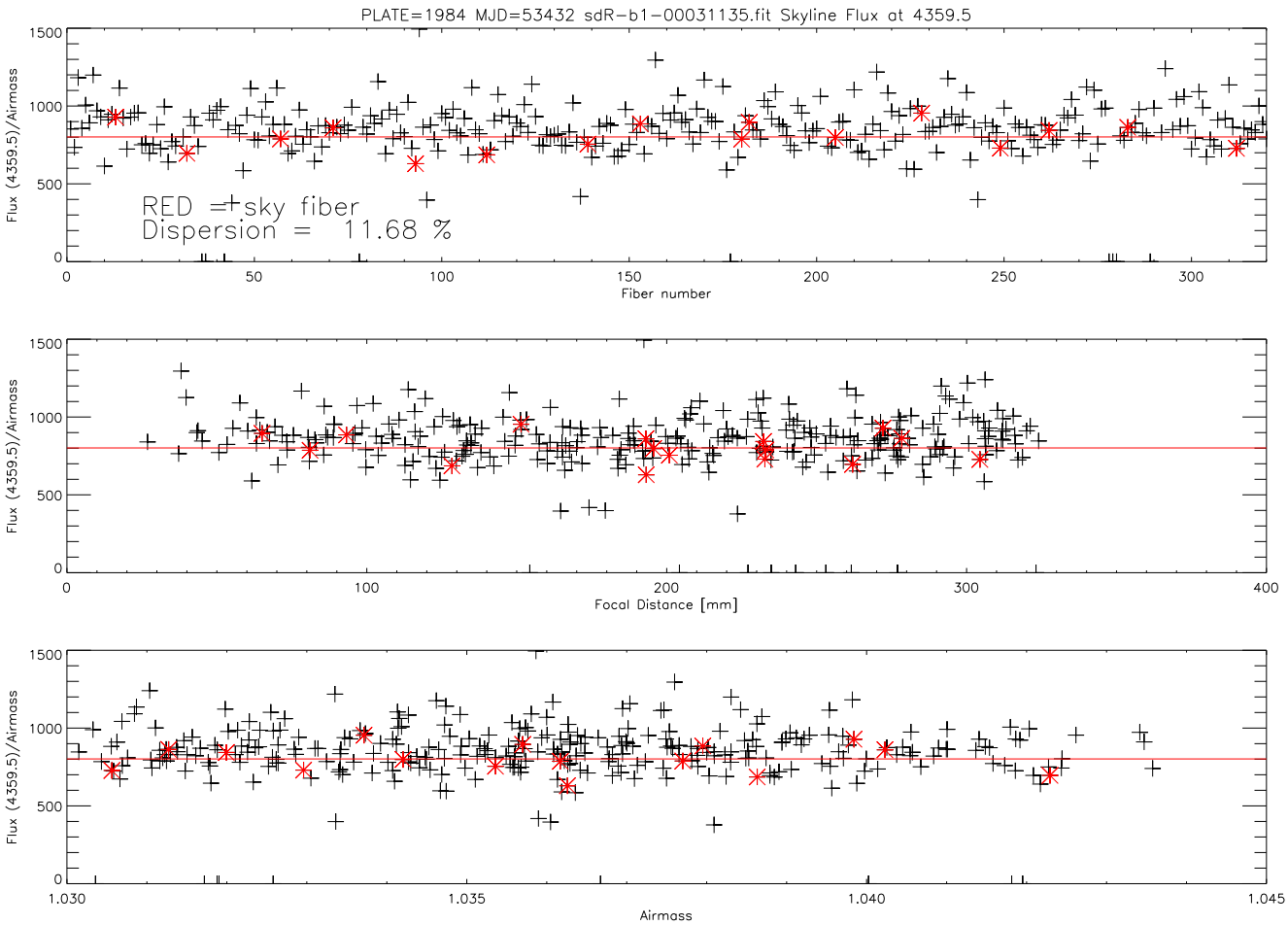

Number of sky fibers = 16
PLATE=1984 MJD=53432 sdR-b1-00031135.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

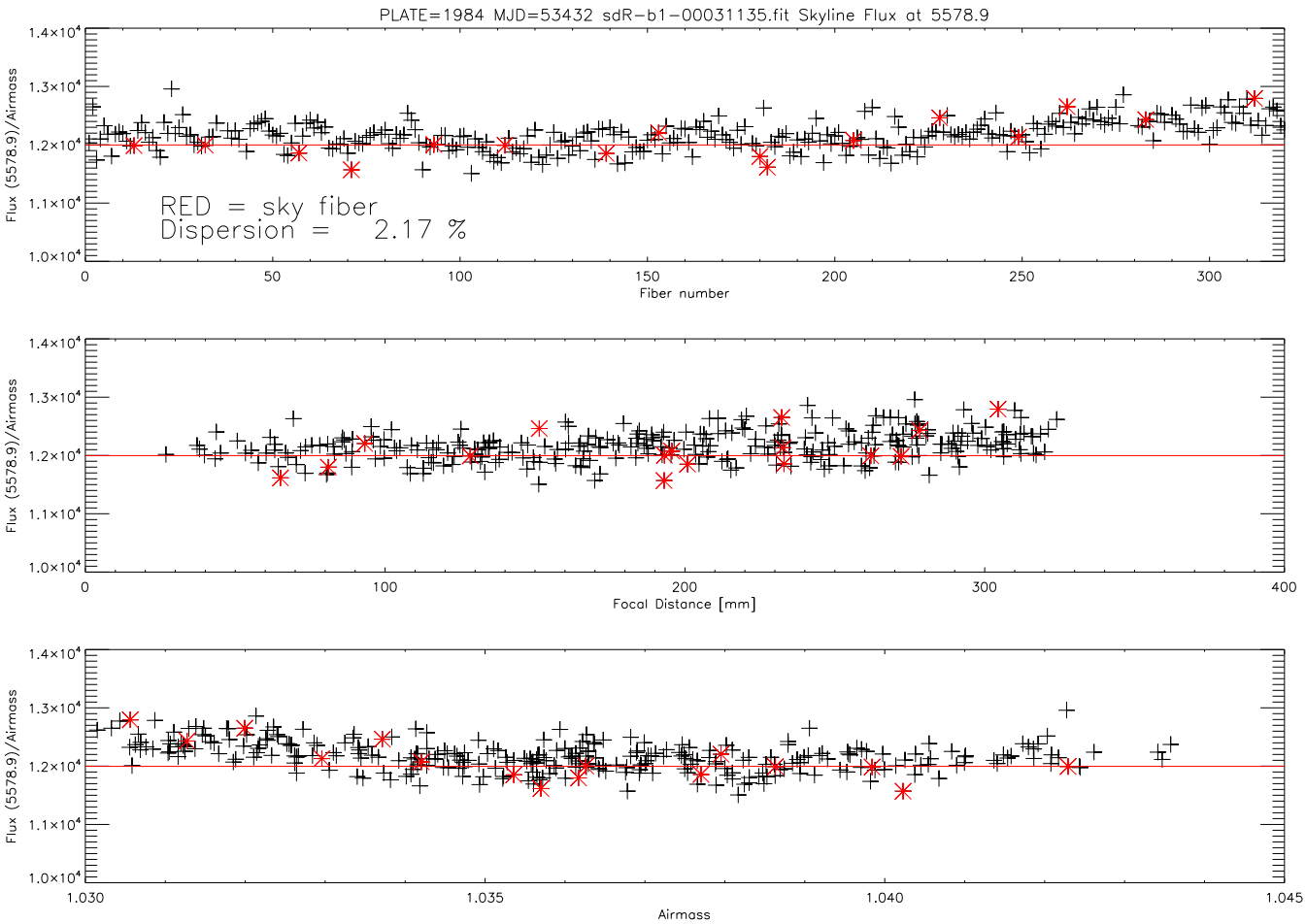

PLATE=1984 MJD=53432 sdR-b1-00031135.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

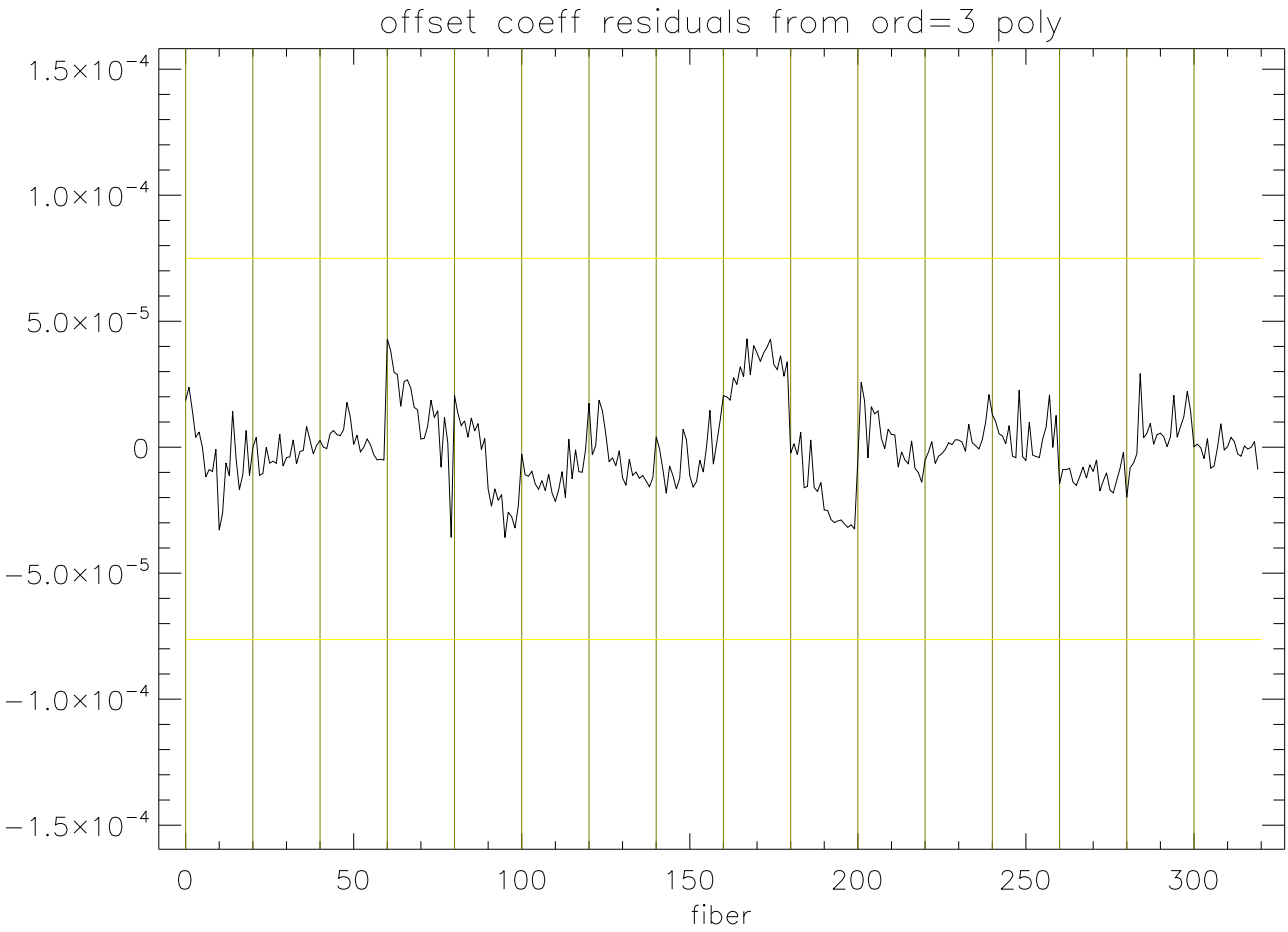

PLATE=1984 MJD=53432 sdR-b1-00031135.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

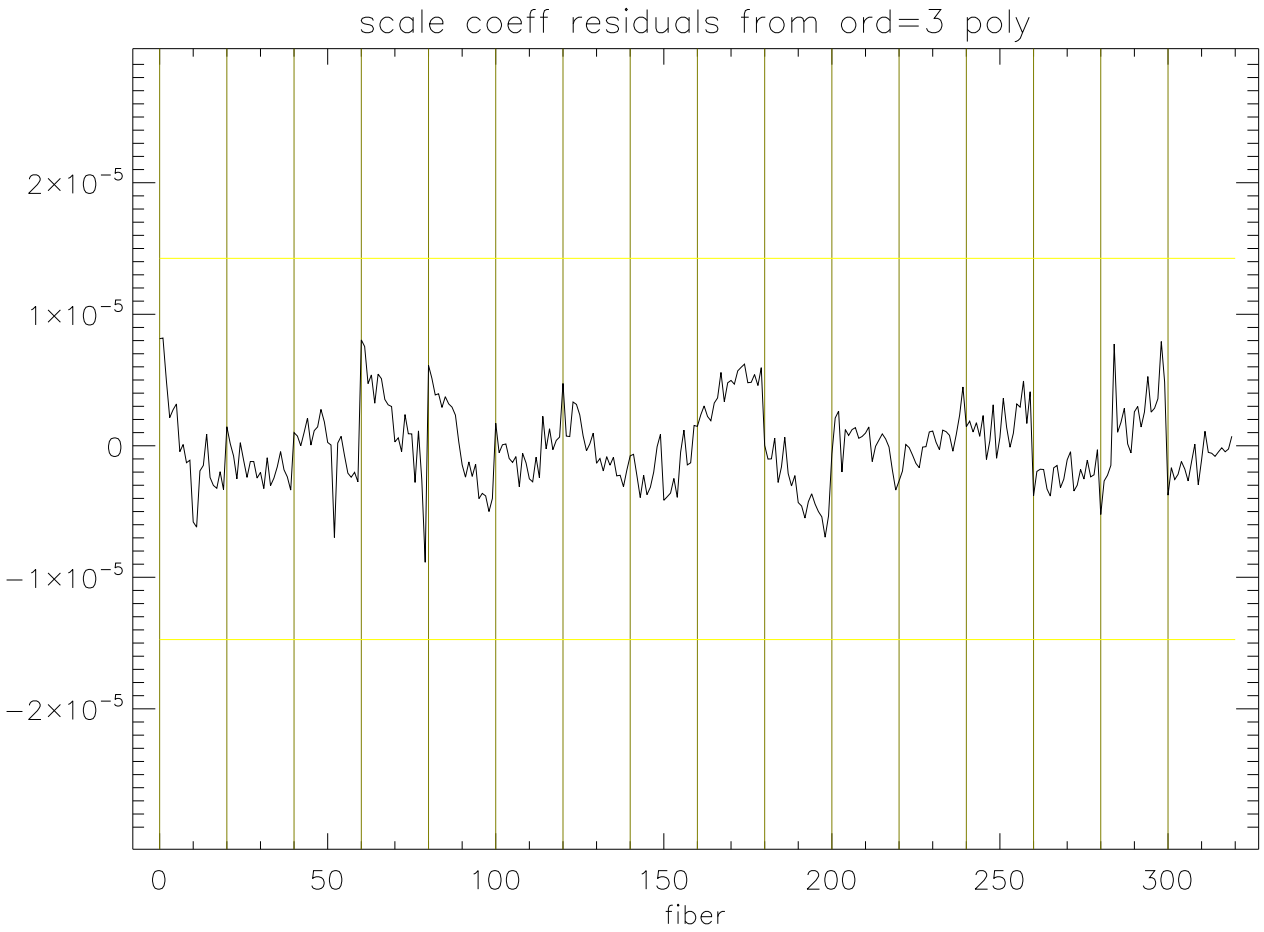

PLATE=1984 MJD=53432 sdR-b1-00031135.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

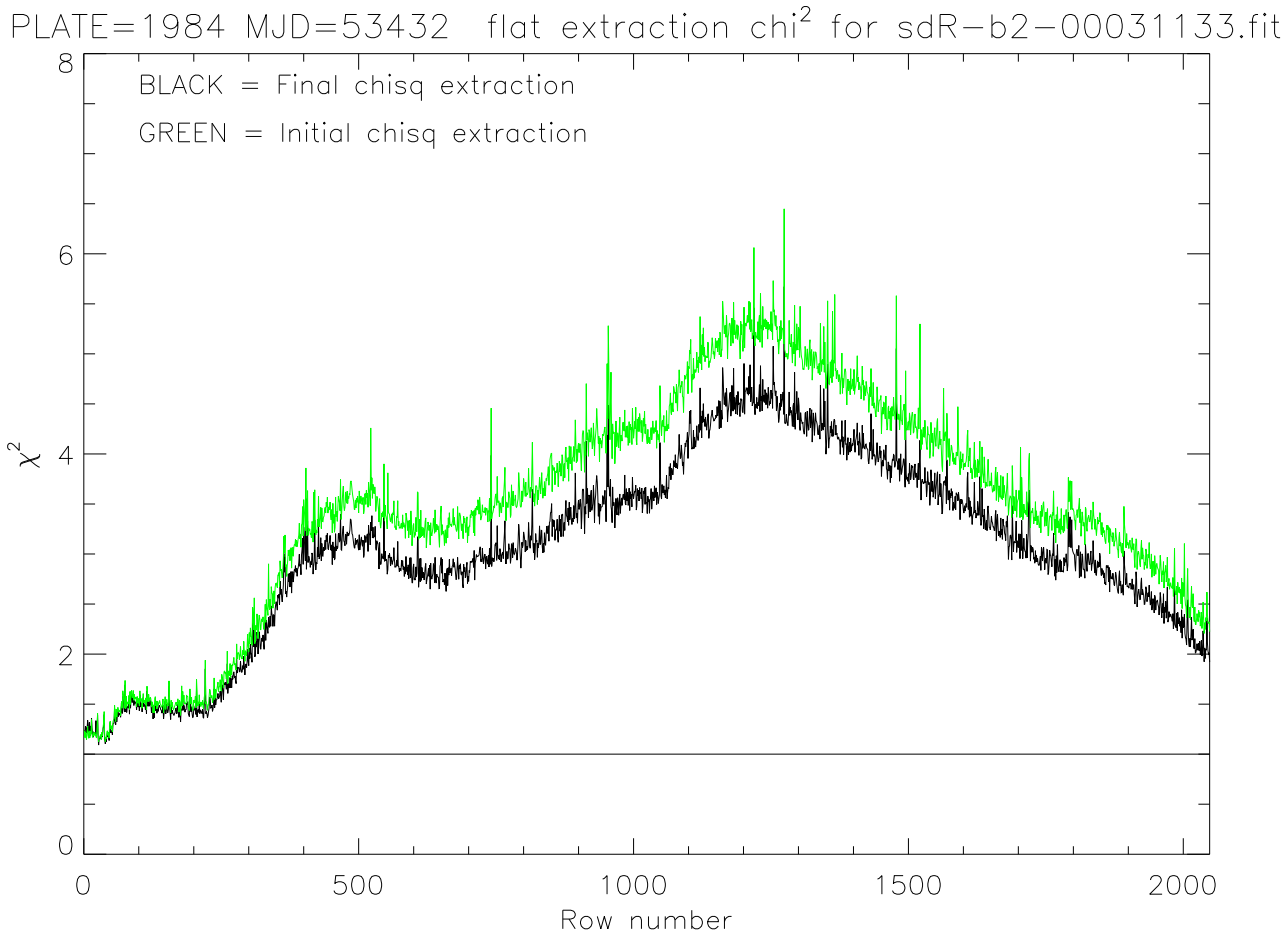

Number of sky fibers = 16
PLATE=1984 MJD=53432 sdR-b1-00031135.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

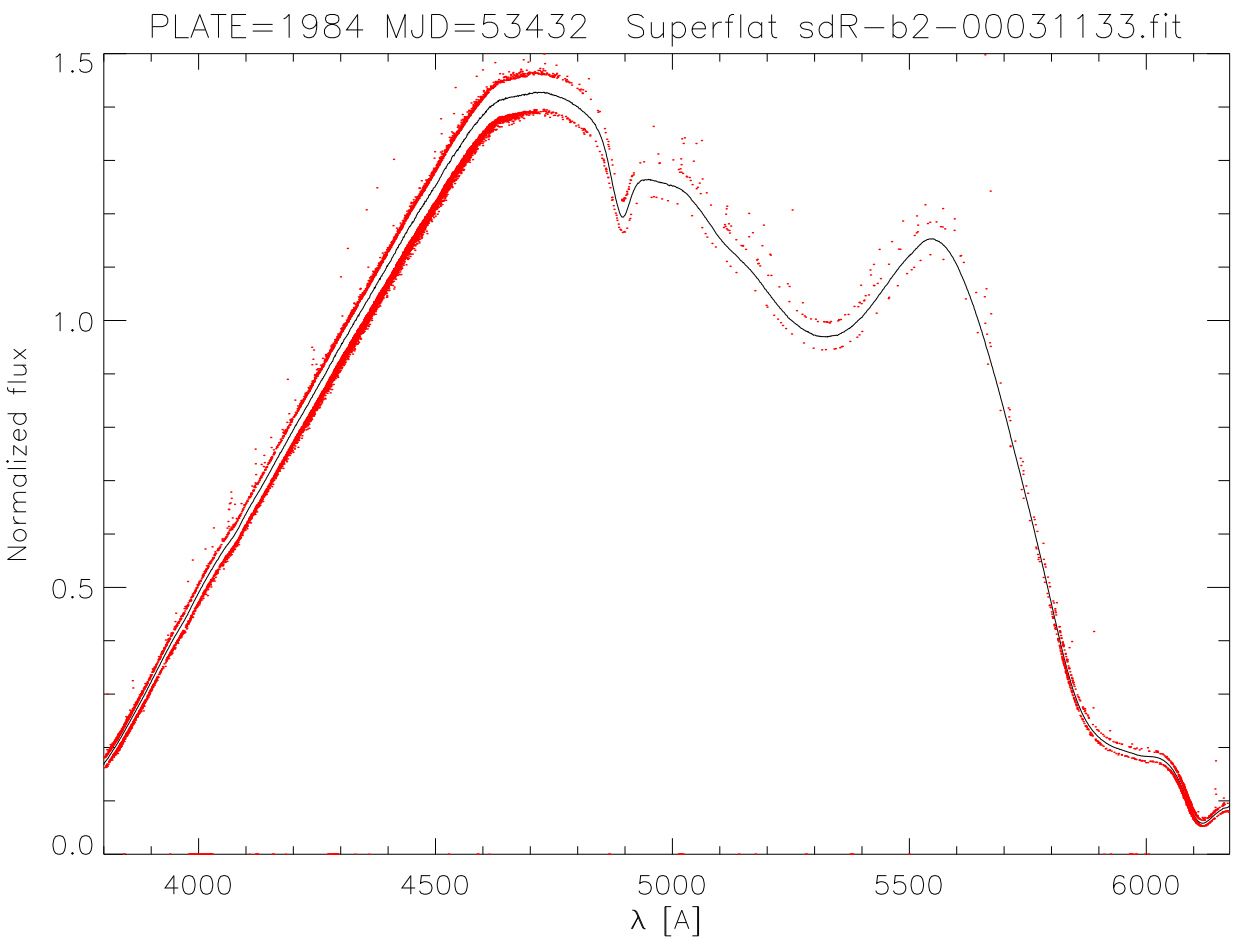

PLATE=1984 MJD=53432 sdR-b1-00031135.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED =+sky fiber
Dispersion = 11.68 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

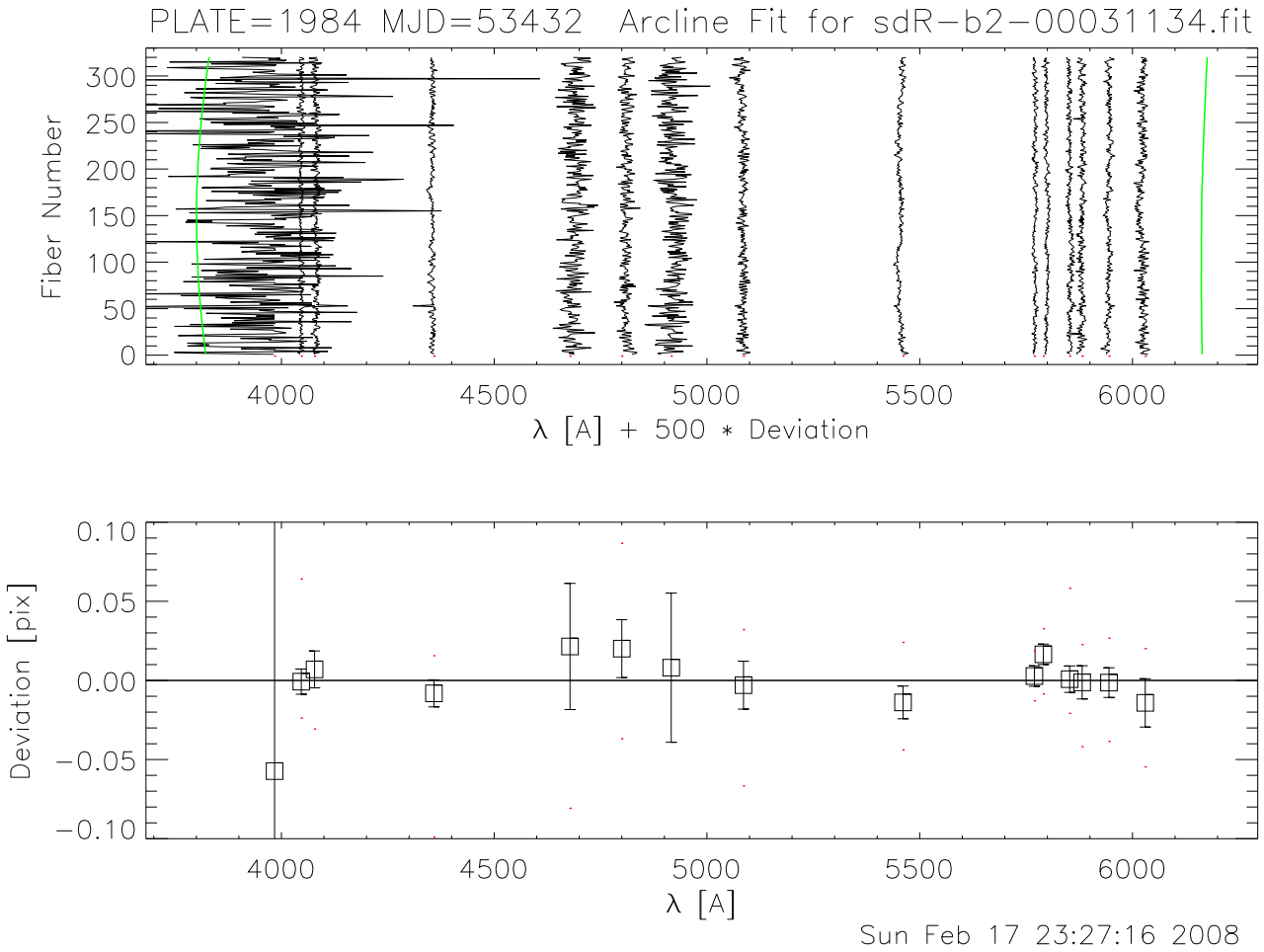

PLATE=1984 MJD=53432 sdR-b1-00031135.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
1.4×10^4
1.3×10^4
1.2×10^4
1.1×10^4
1.0×10^4
RED = sky fiber
Dispersion = 2.17 %
0
50
100
150
200
250
300
Fiber number
Flux (5578.9)/Airmass
1.4×10^4
1.3×10^4
1.2×10^4
1.1×10^4
1.0×10^4
0
100
200
300
400
Focal Distance [mm]
Flux (5578.9)/Airmass
1.4×10^4
1.3×10^4
1.2×10^4
1.1×10^4
1.0×10^4
1.030
1.035
1.040
1.045
Airmass

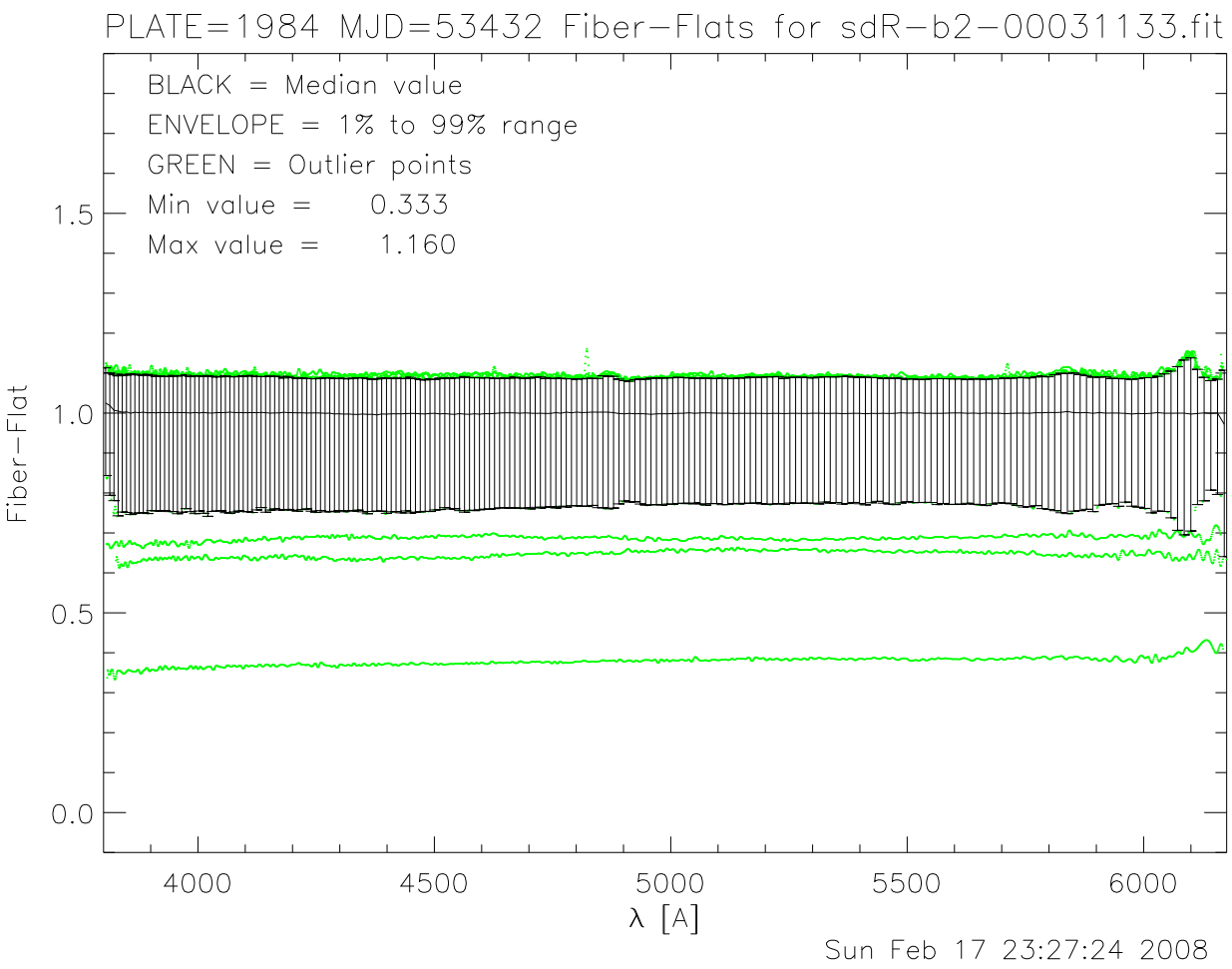

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

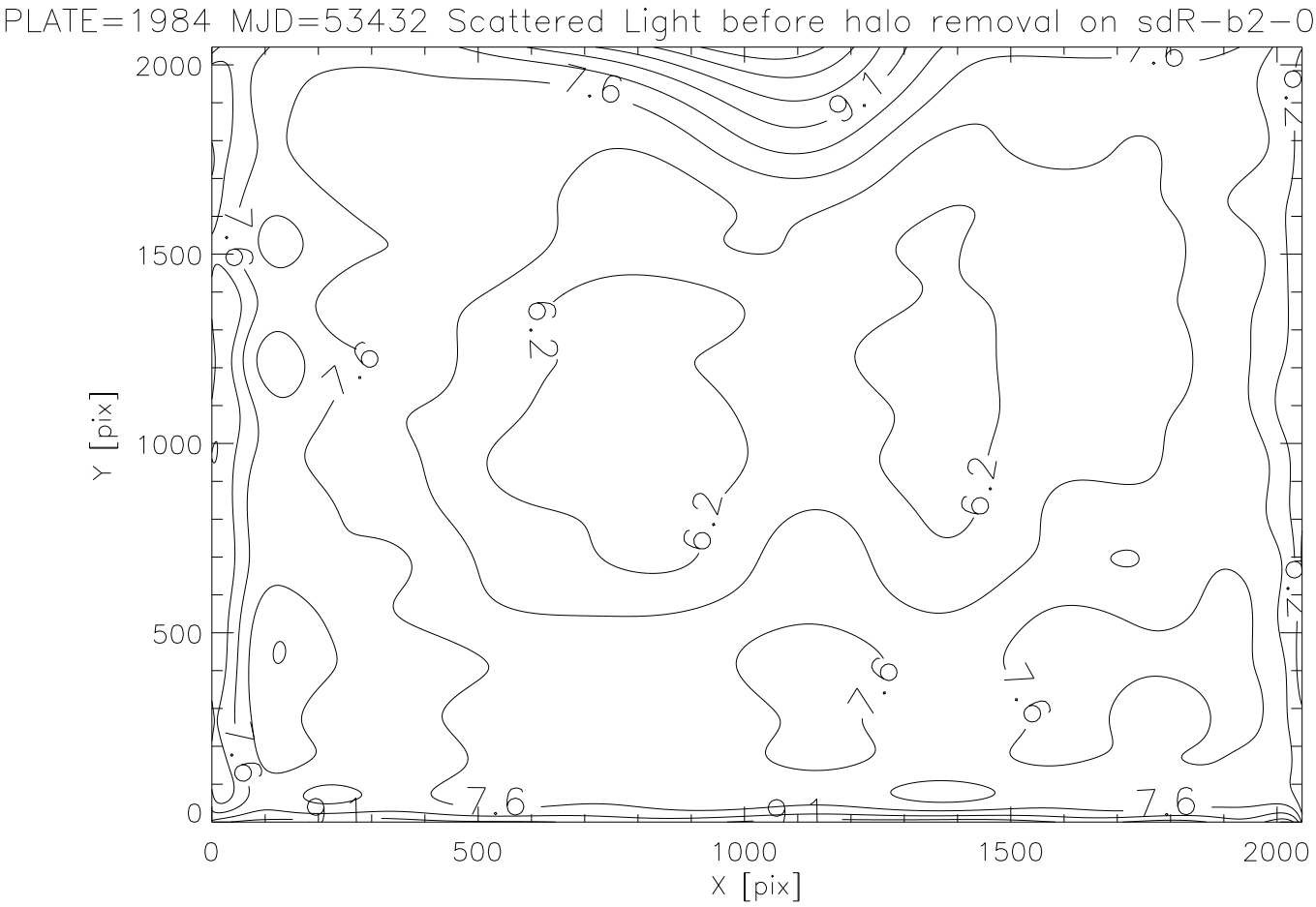

scale coeff residuals from ord=3 poly
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

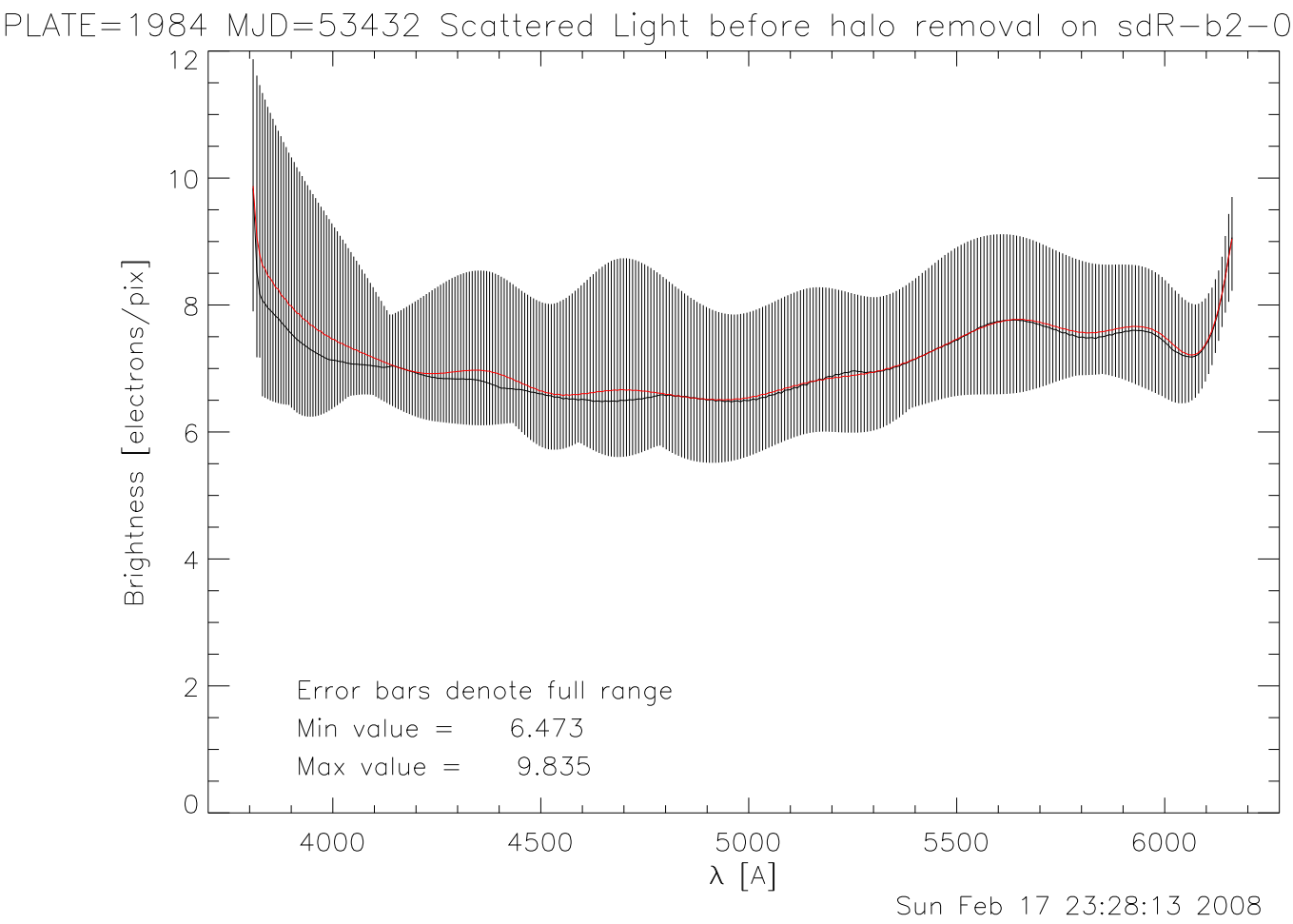

PLATE=1984 MJD=53432 flat extraction chi^2 for sdR−b2−00031133.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

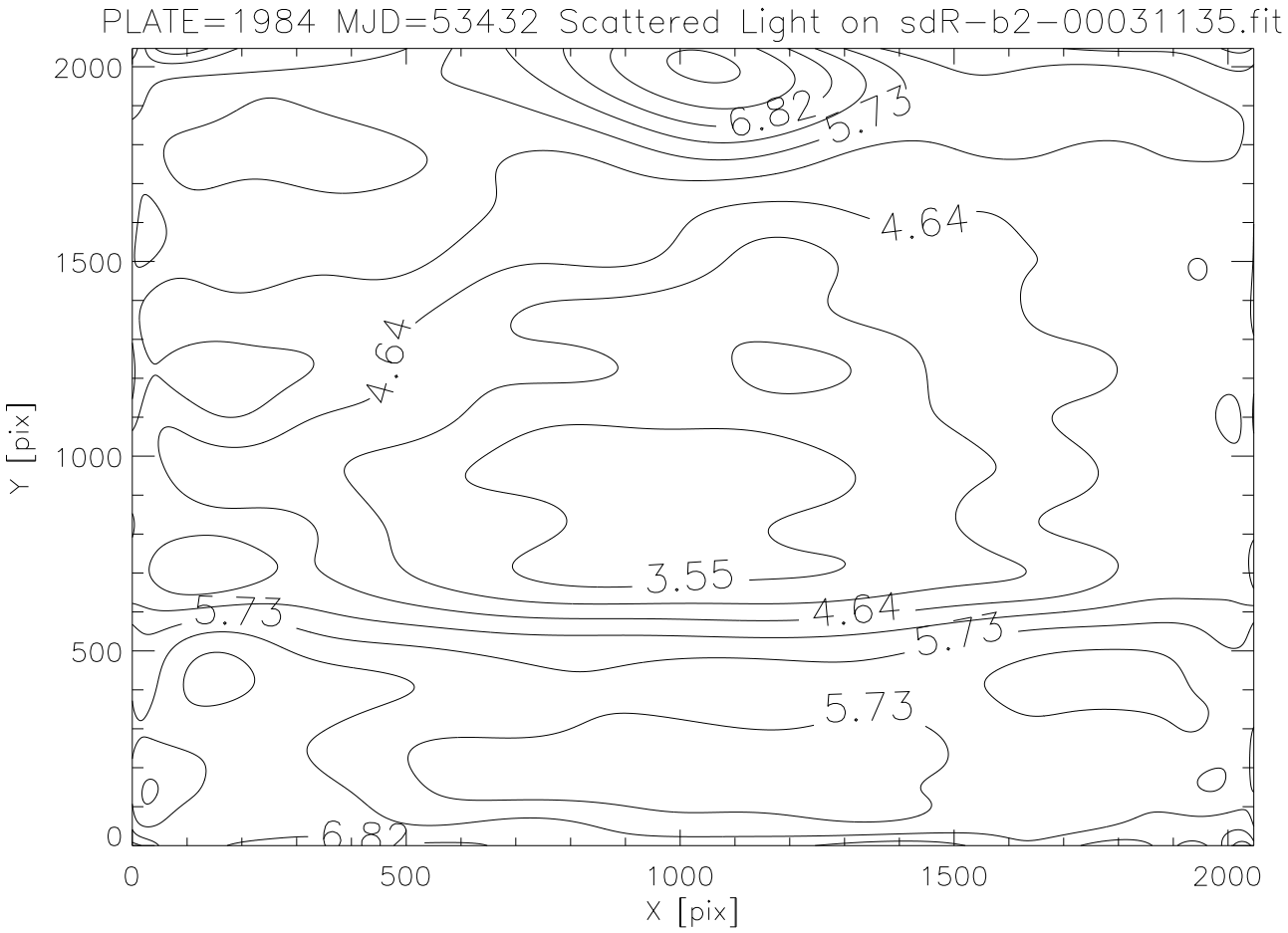

PLATE=1984 MJD=53432 Superflat sdR-b2-00031133.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

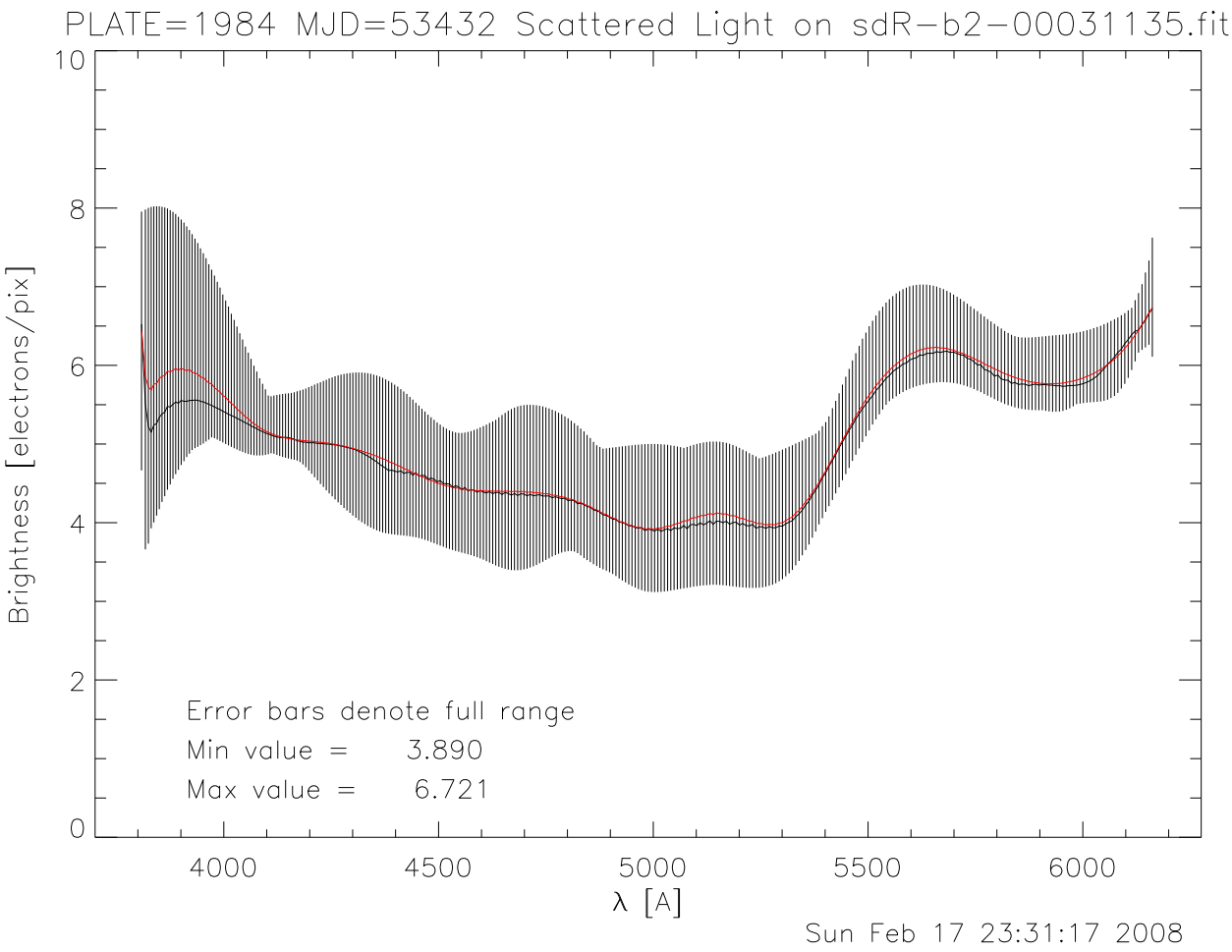

PLATE=1984 MJD=53432 Arcline Fit for sdR-b2-00031134.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Sun Feb 17 23:27:16 2008

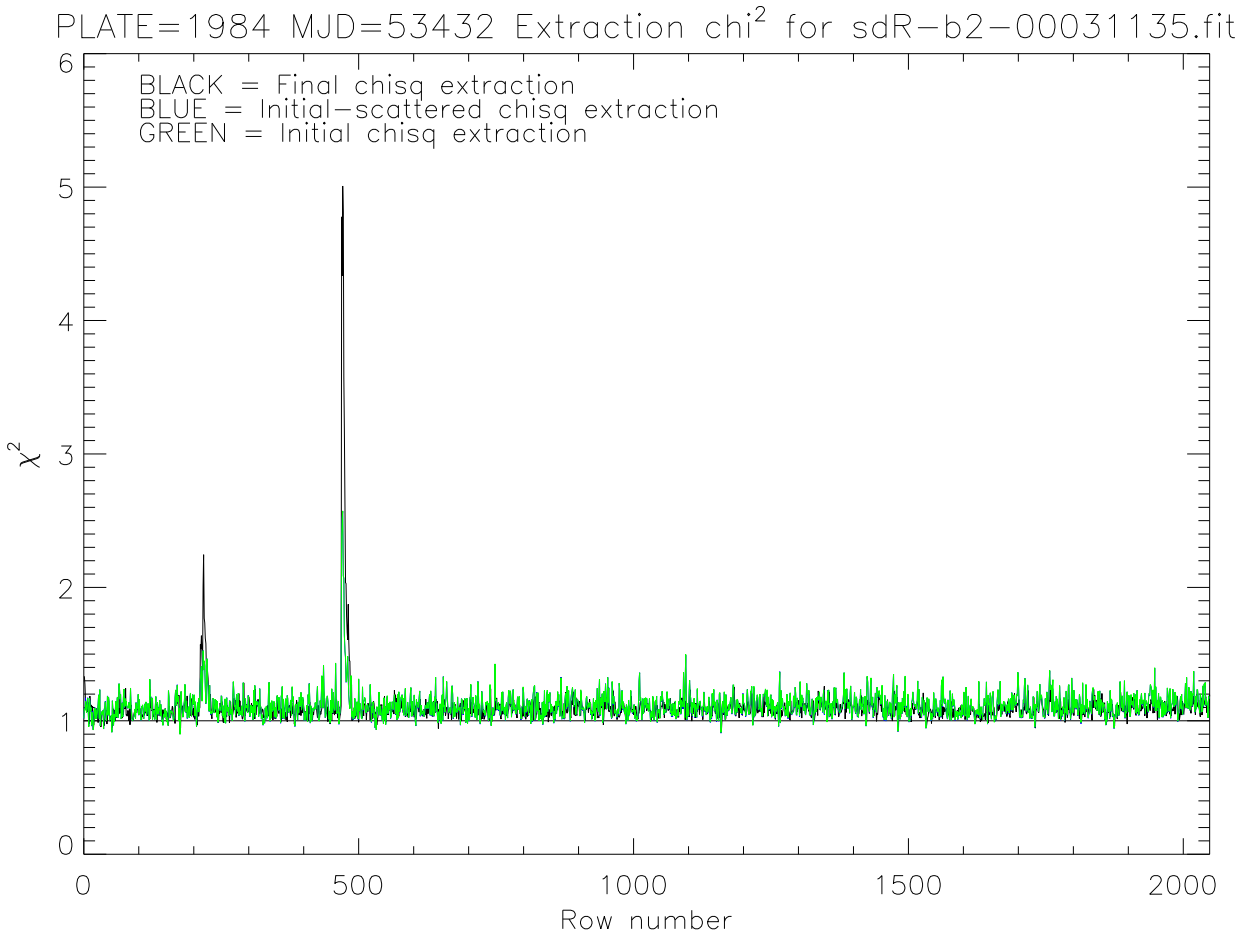

PLATE=1984 MJD=53432 Fiber−Flats for sdR−b2−00031133.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.333
Max value = 1.160
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sun Feb 17 23:27:24 2008

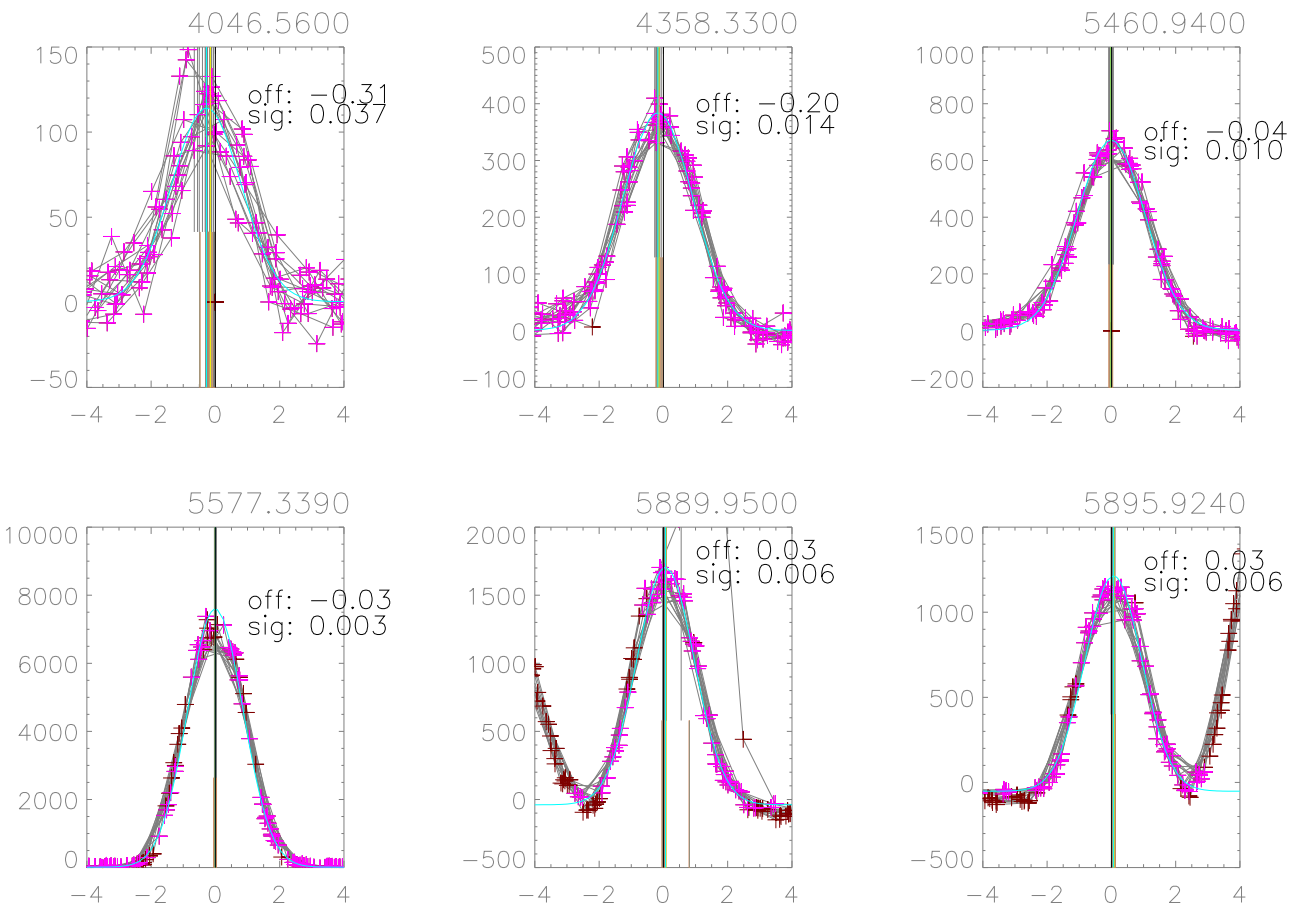

PLATE=1984 MJD=53432 Scattered Light before halo removal on sdR-b2-00031135.f
Y [pix]
X [pix]
0
500
1000
1500
2000
7.6
9.1
6.2
0

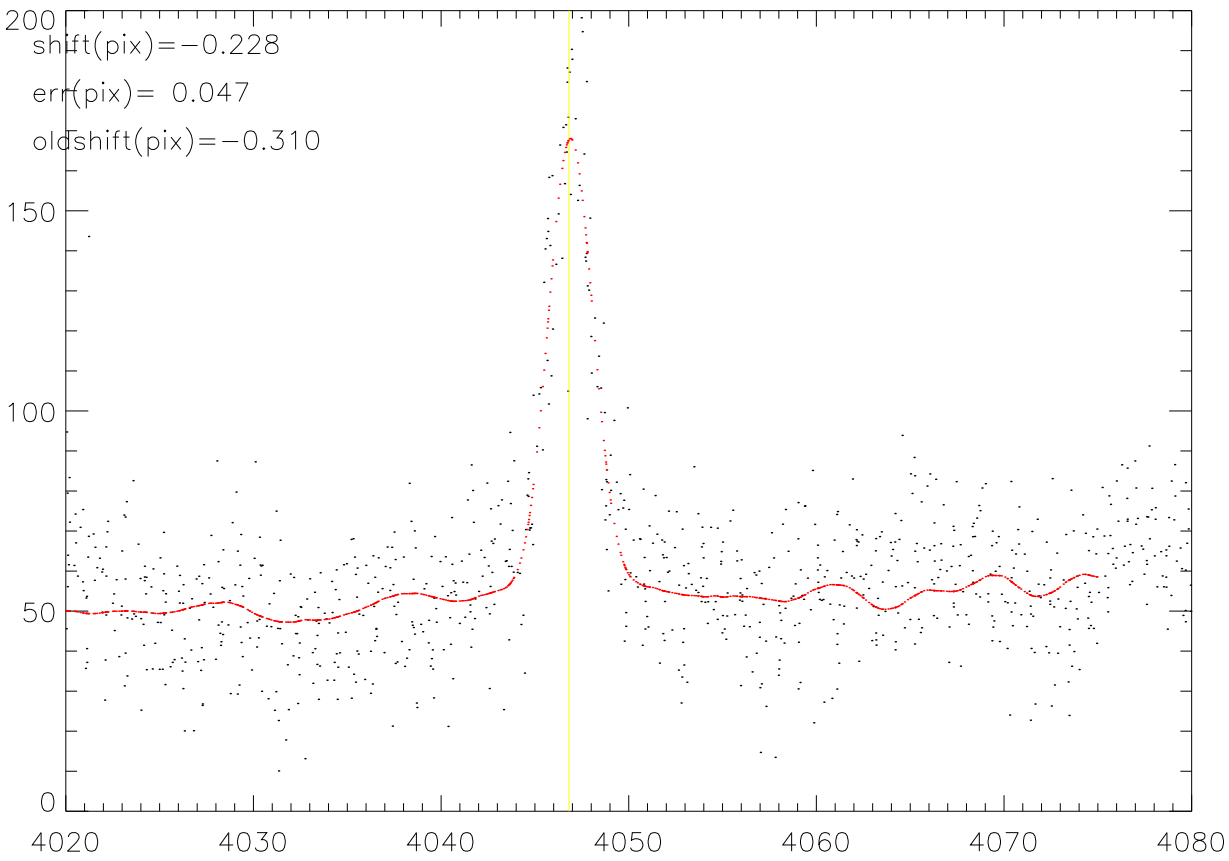

PLATE=1984 MJD=53432 Scattered Light before halo removal on sdR-b2-00031135.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.473
Max value = 9.835
Sun Feb 17 23:28:13 2008

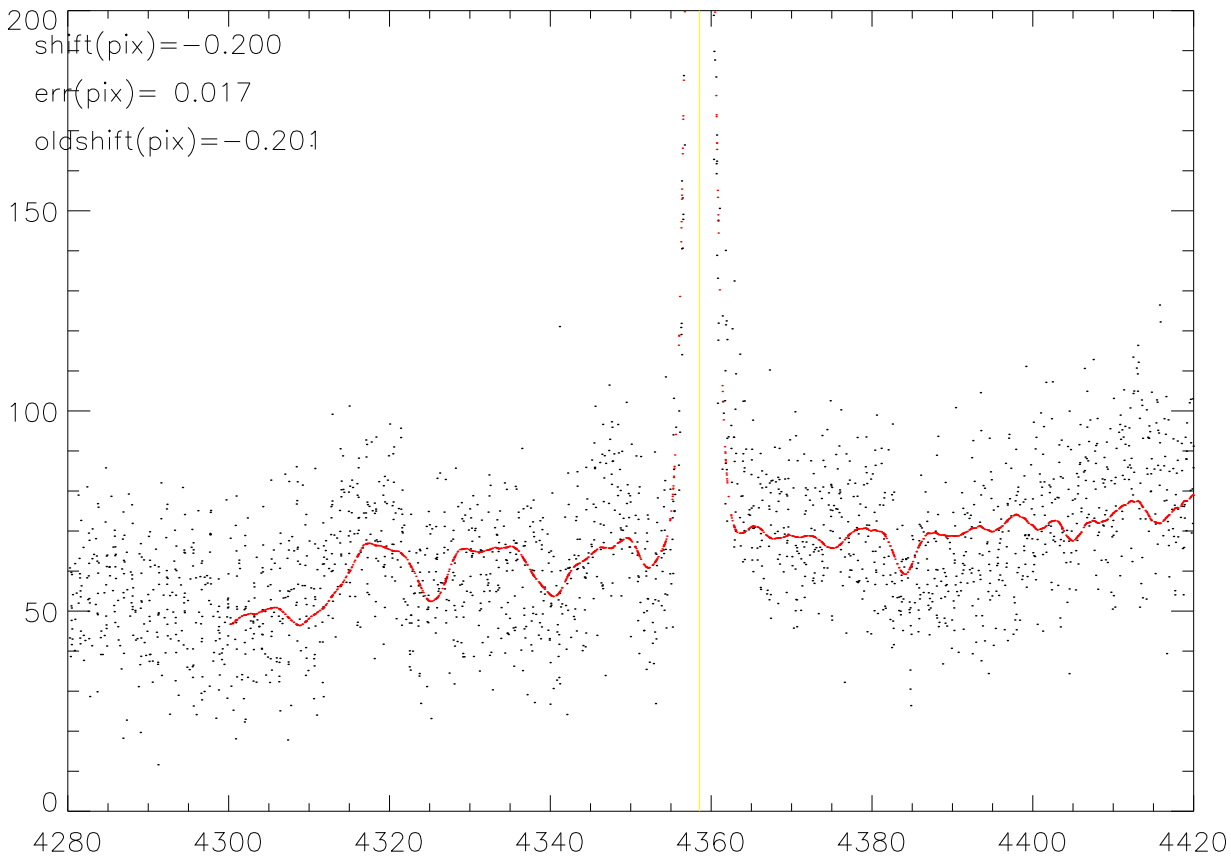

PLATE=1984 MJD=53432 Scattered Light on sdR-b2-00031135.fit
6.82
5.73
4.64
4.64
0
3.55
5.73
4.64
5.73
5.73
0
0
6.82
Y [pix]
X [pix]
0
500
1000
1500
2000

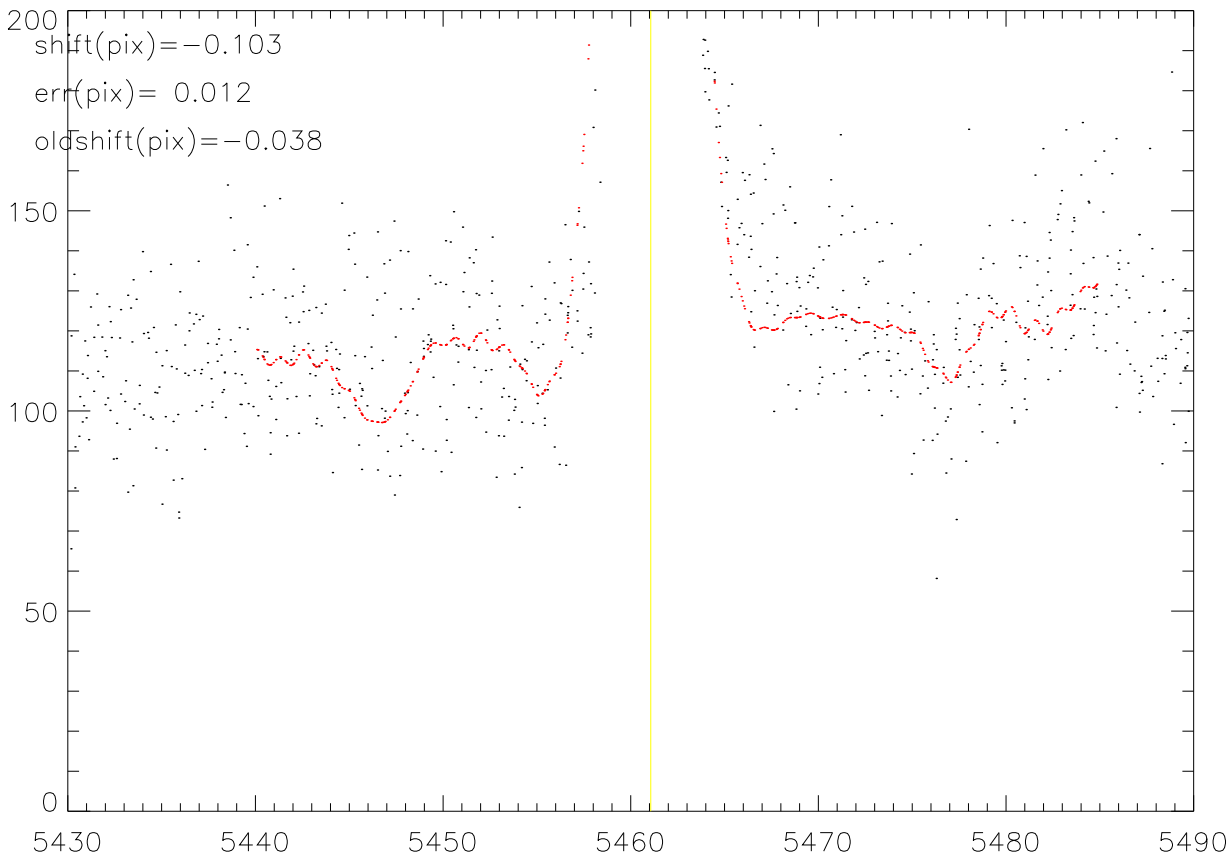

PLATE=1984 MJD=53432 Scattered Light on sdR-b2-00031135.fit
Brightness [electrons/pix]
10
8
6
4
2
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 3.890
Max value = 6.721
Sun Feb 17 23:31:17 2008

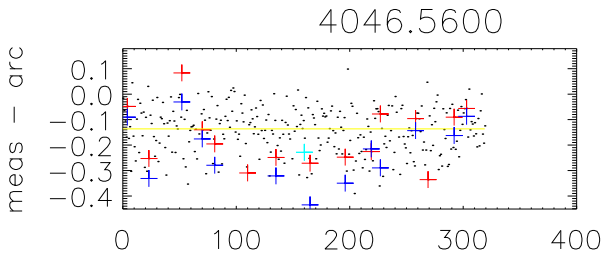

PLATE=1984 MJD=53432 Extraction chi^2 for sdR-b2-00031135.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

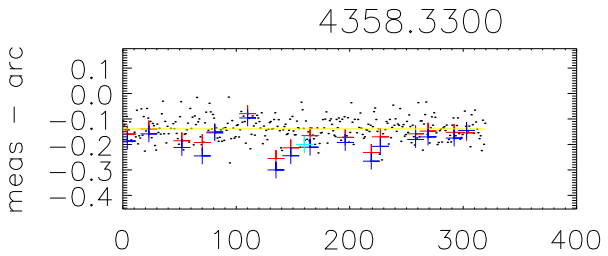

4046.5600
off: −0.31
sig: 0.037
4358.3300
off: −0.20
sig: 0.014
5460.9400
off: −0.04
sig: 0.010
5577.3390
off: −0.03
sig: 0.003
5889.9500
off: 0.03
sig: 0.006
5895.9240
off: 0.03
sig: 0.006

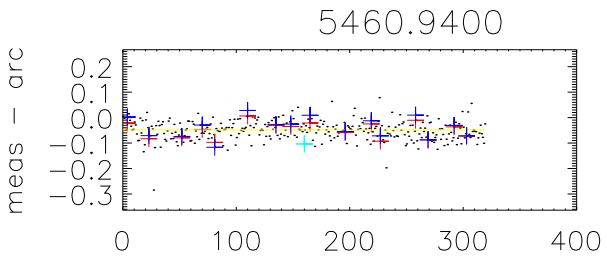

shift(pix)=−0.228
err(pix)= 0.047
oldshift(pix)=−0.310
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

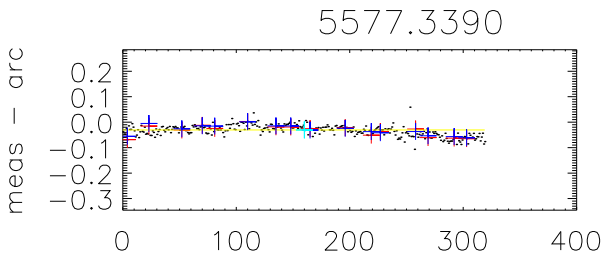

shift(pix)=−0.200
err(pix)= 0.017
oldshift(pix)=−0.201
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

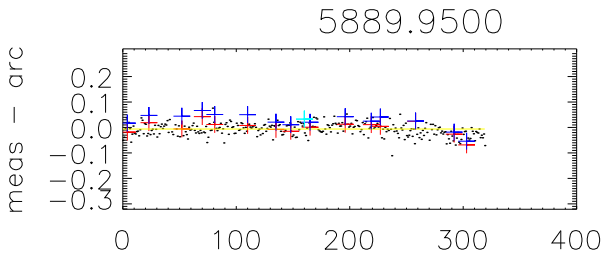

shift(pix)=−0.103
err(pix)= 0.012
oldshift(pix)=−0.038
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

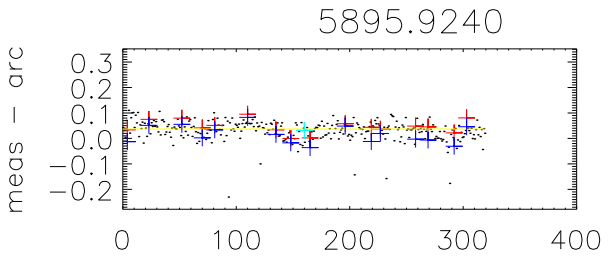

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

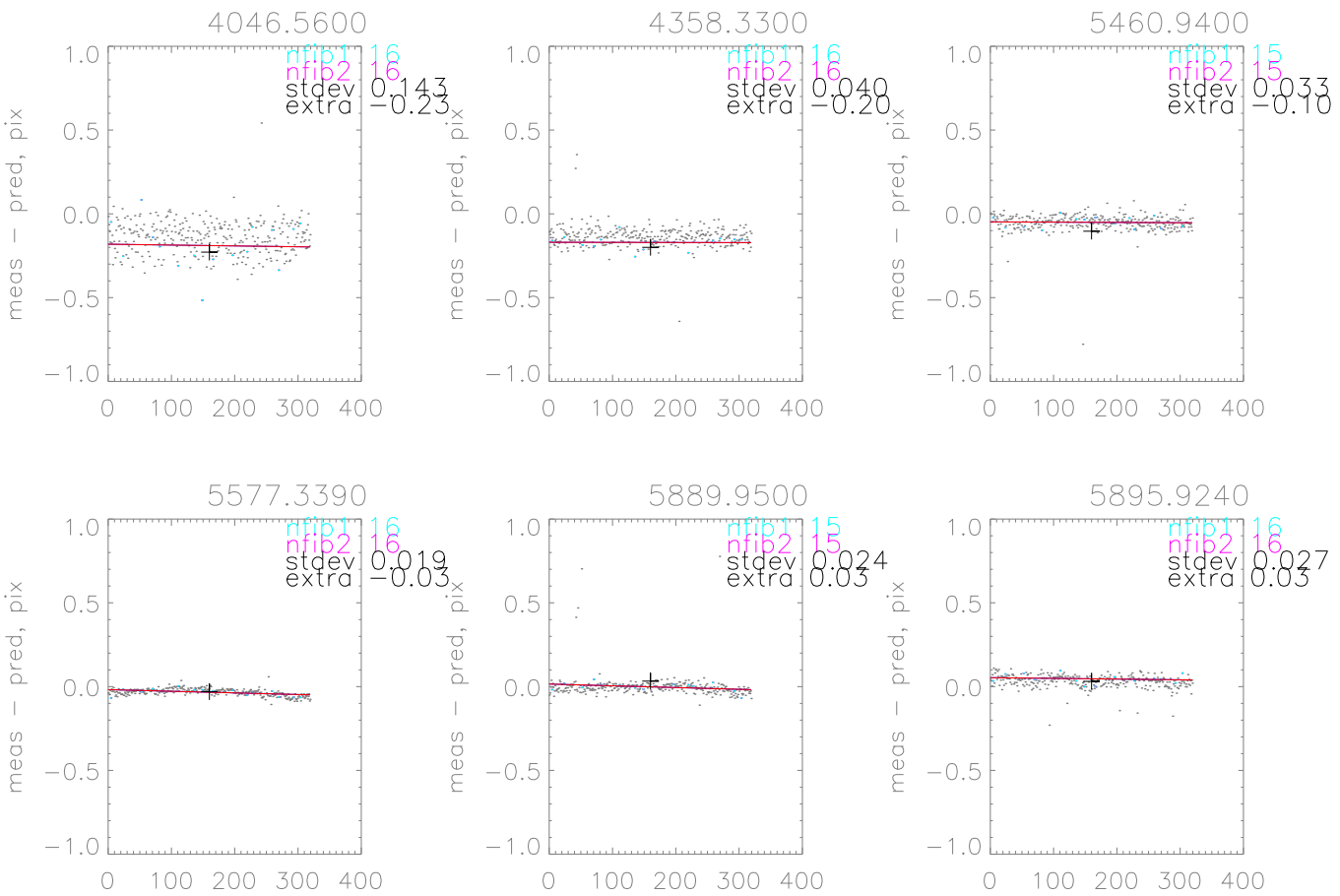

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

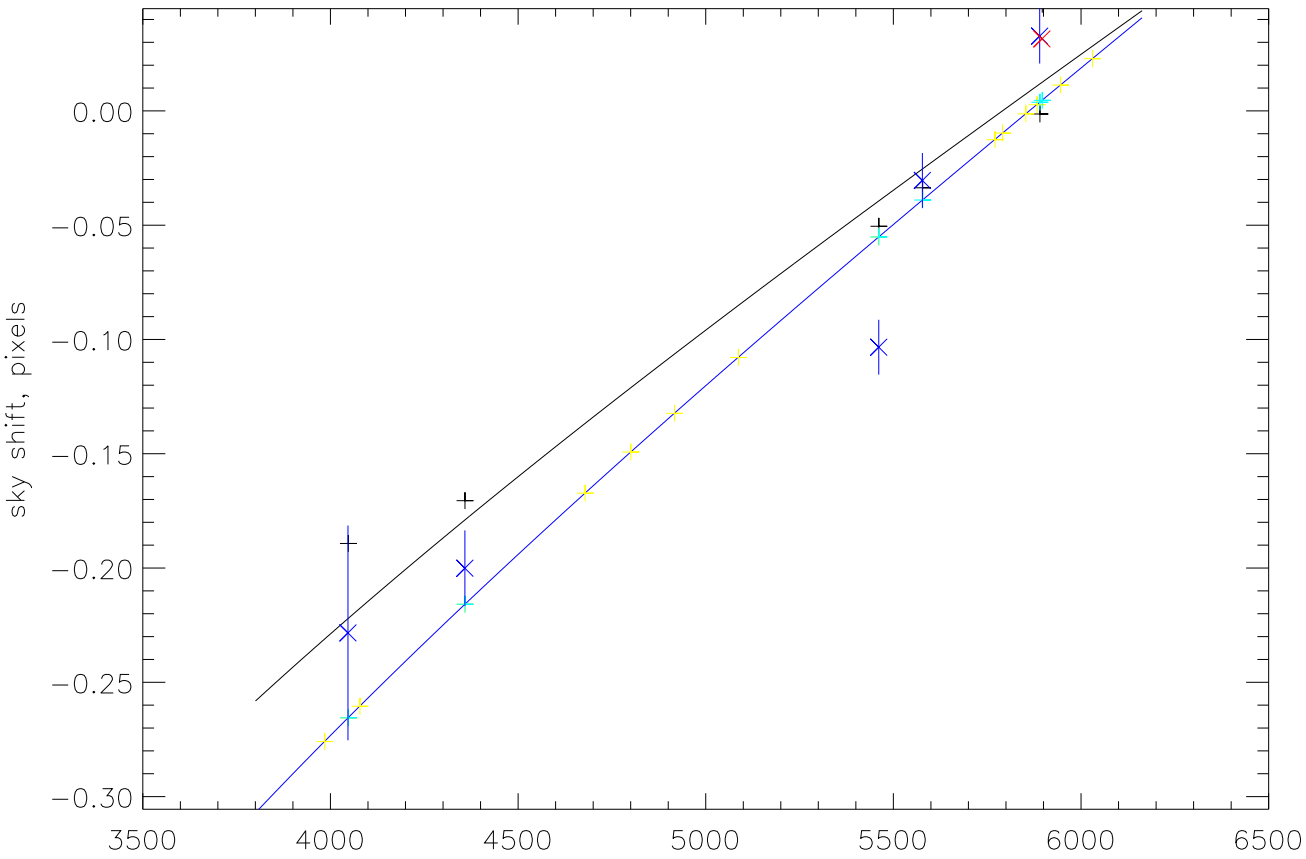

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

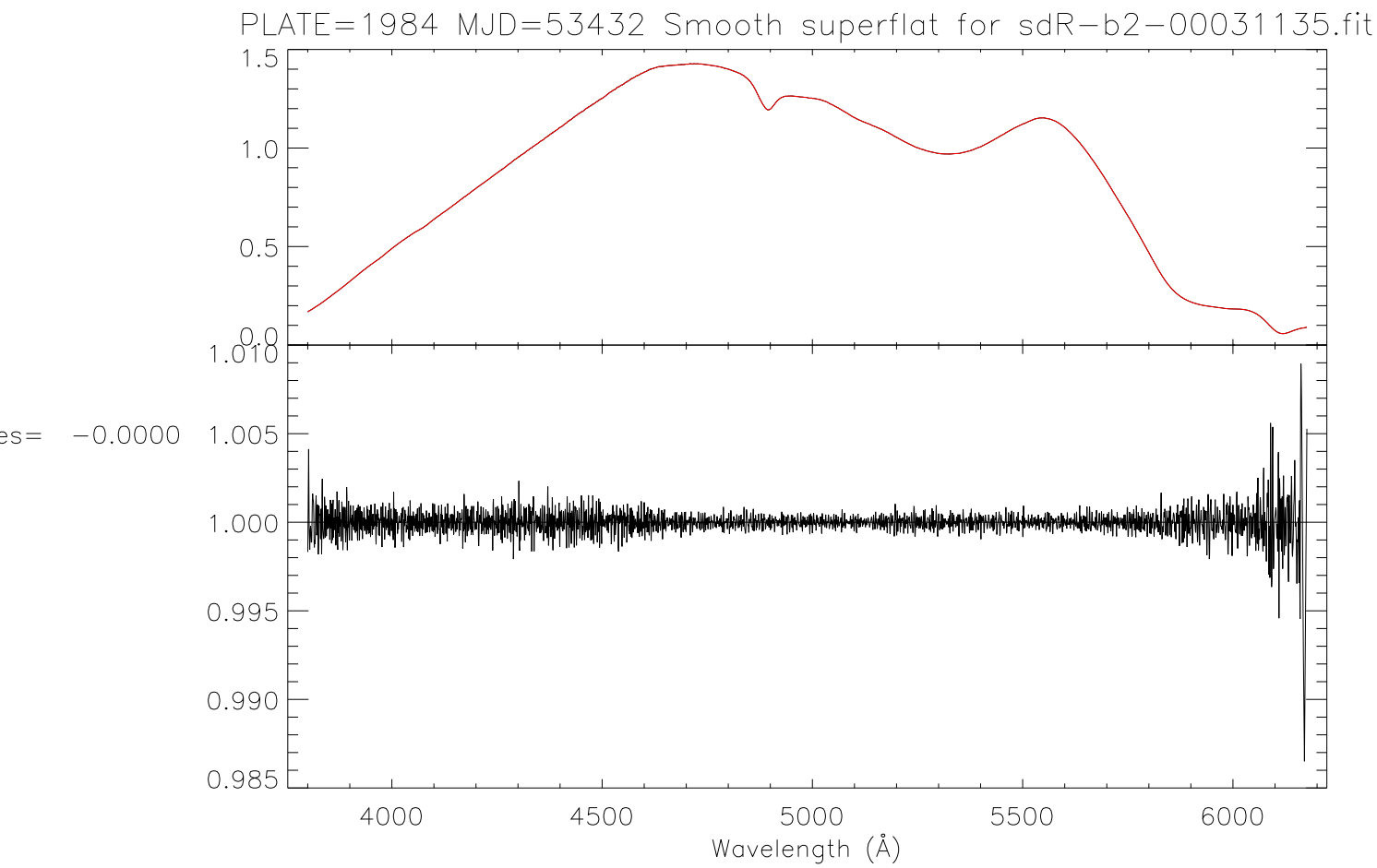

5577.3390
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

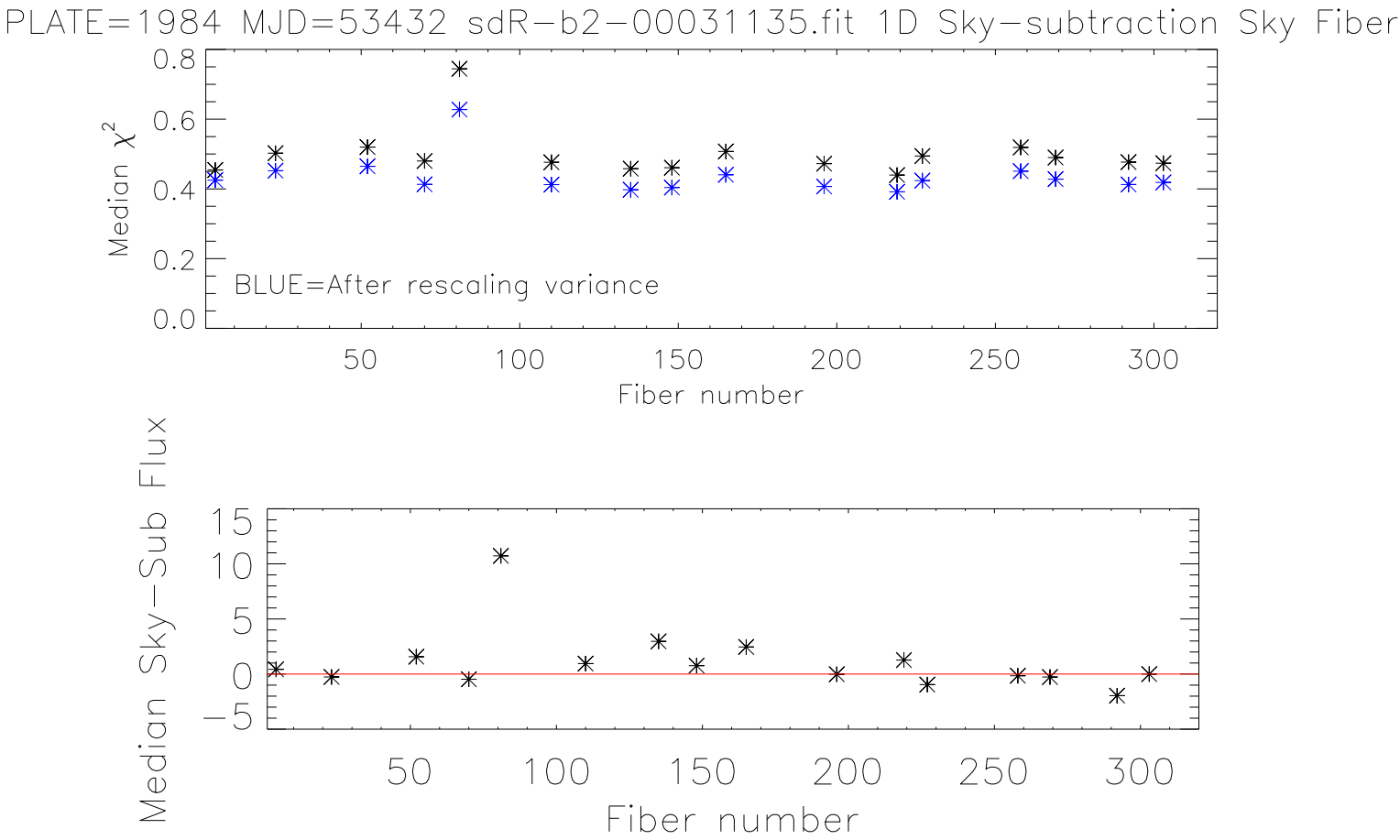

5889.9500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

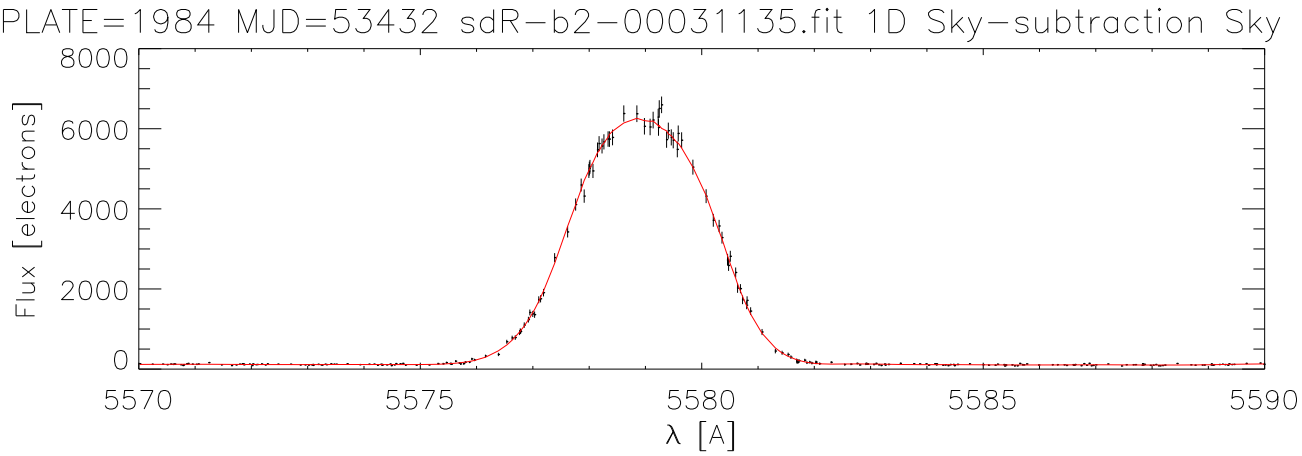

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

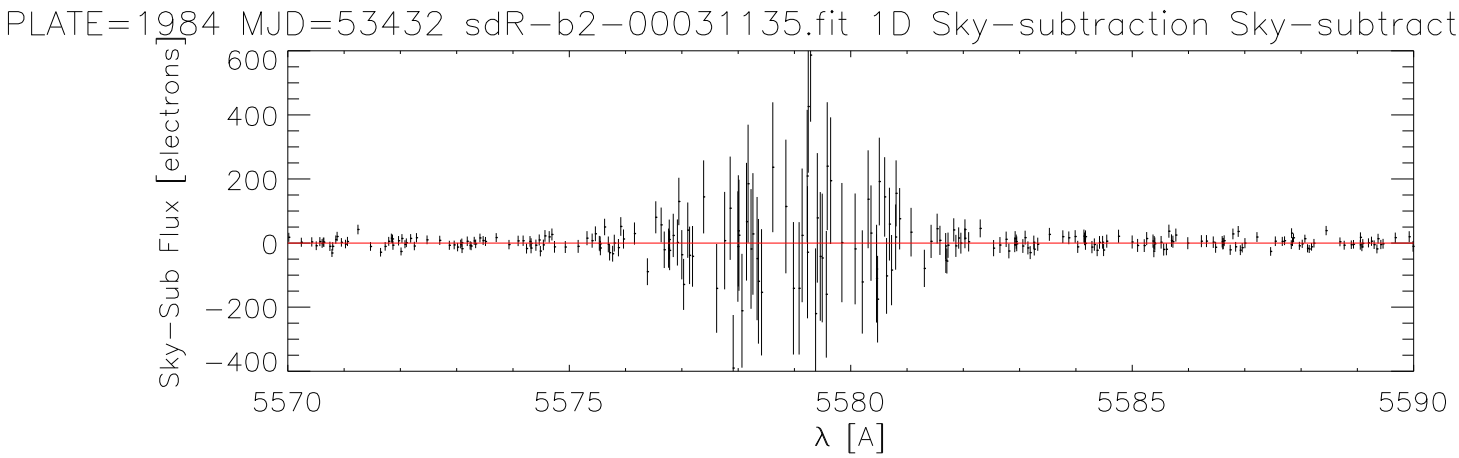

4046.5600
nfib1 16
nfib2 16
stdev 0.143
extra −0.23
4358.3300
nfib1 16
nfib2 16
stdev 0.040
extra −0.20
5460.9400
nfib1 15
nfib2 15
stdev 0.033
extra −0.10
5577.3390
nfib1 16
nfib2 16
stdev 0.019
extra −0.03
5889.9500
nfib1 15
nfib2 15
stdev 0.024
extra 0.03
5895.9240
nfib1 16
nfib2 16
stdev 0.027
extra 0.03
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

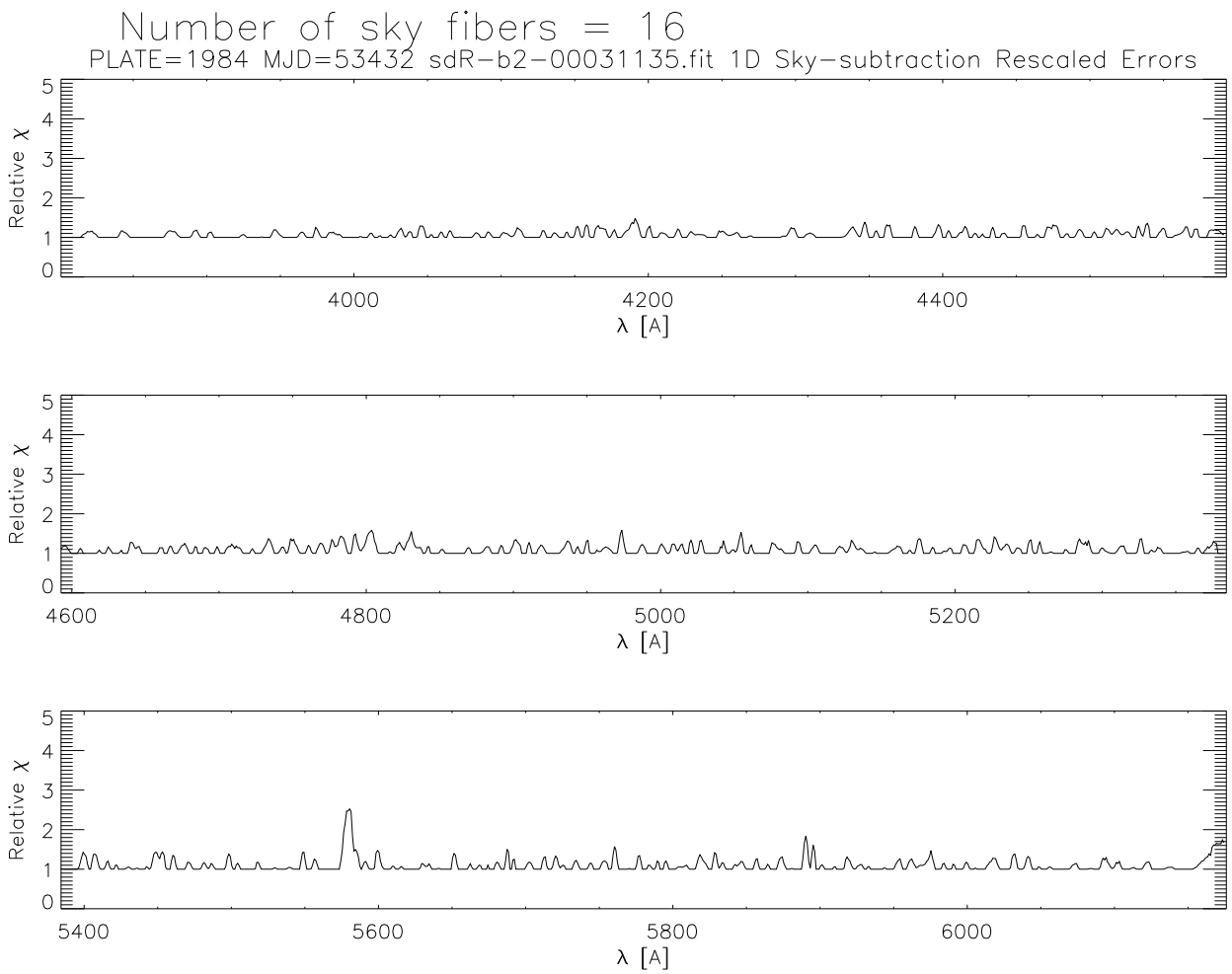

sky shift, pixels
0.00
−0.05
−0.10
−0.15
−0.20
−0.25
−0.30
3500
4000
4500
5000
5500
6000
6500

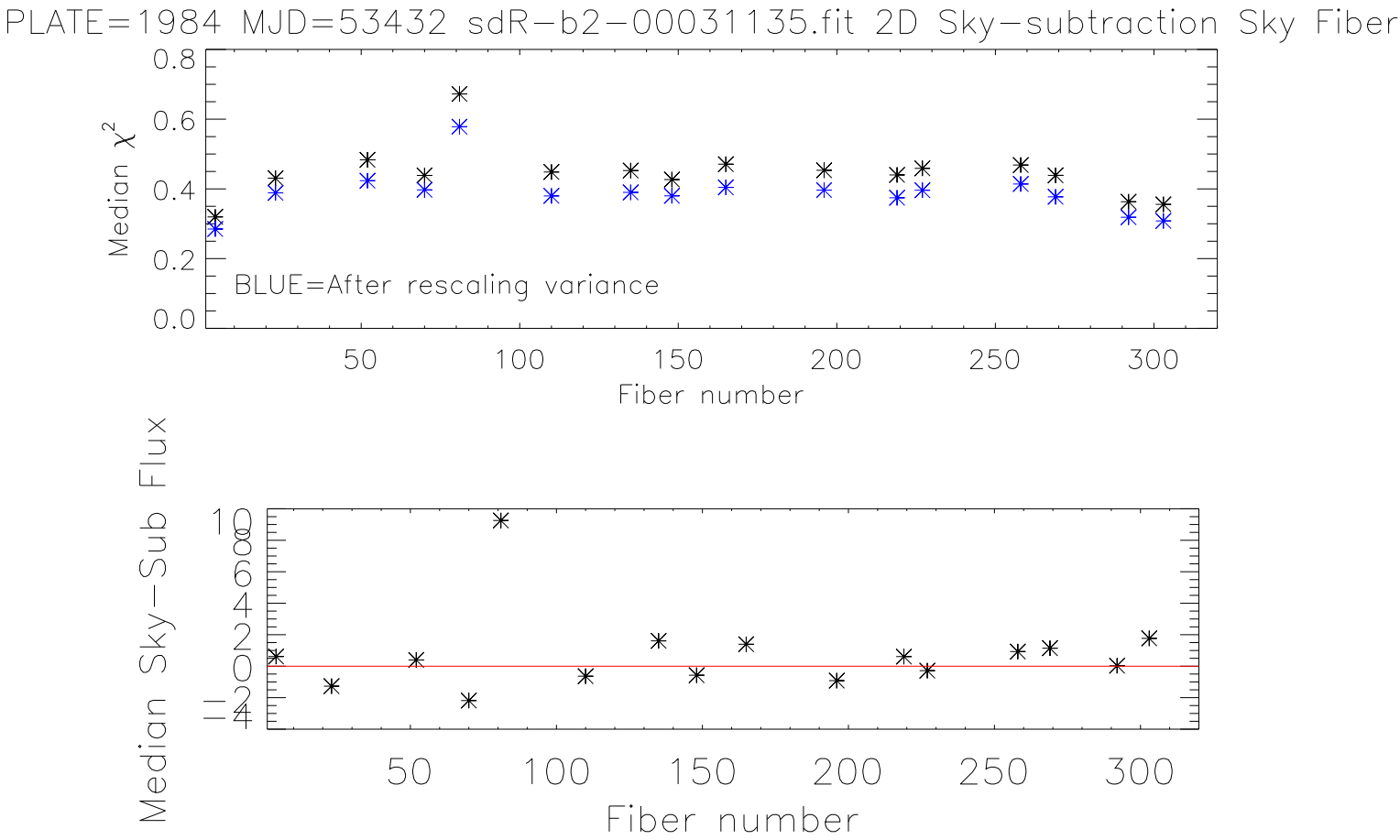

PLATE=1984 MJD=53432 Smooth superflat for sdR-b2-00031135.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
es= -0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

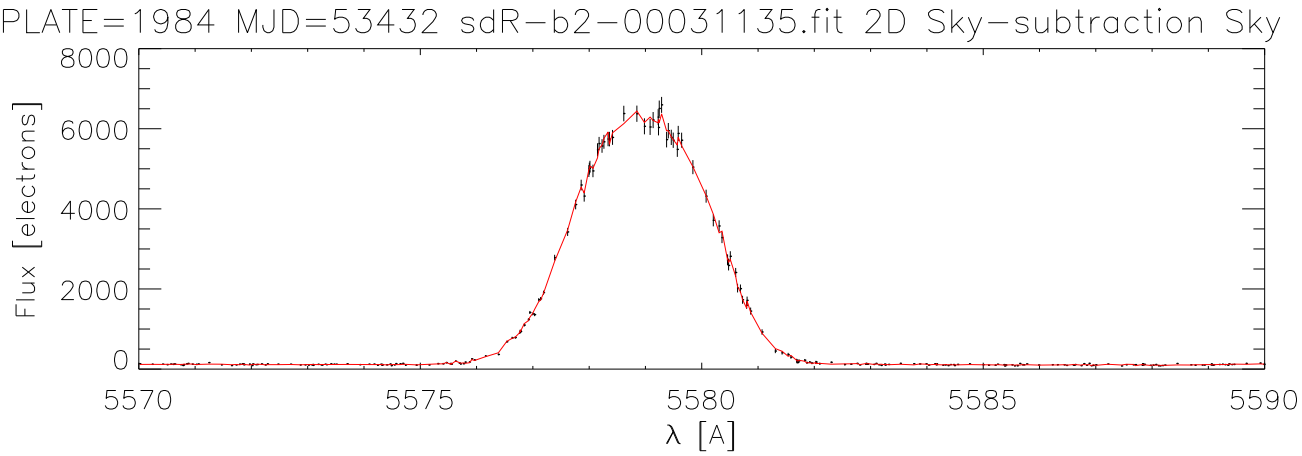

PLATE=1984 MJD=53432 sdR-b2-00031135.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
15
10
5
0
-5
50
100
150
200
250
300
Fiber number

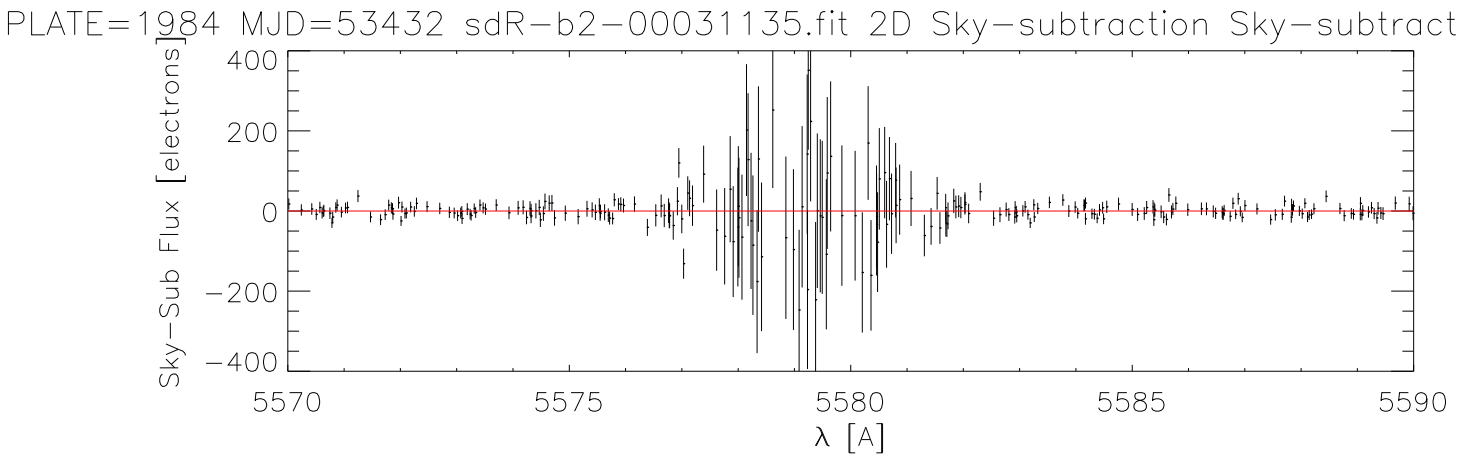

PLATE=1984 MJD=53432 sdR-b2-00031135.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

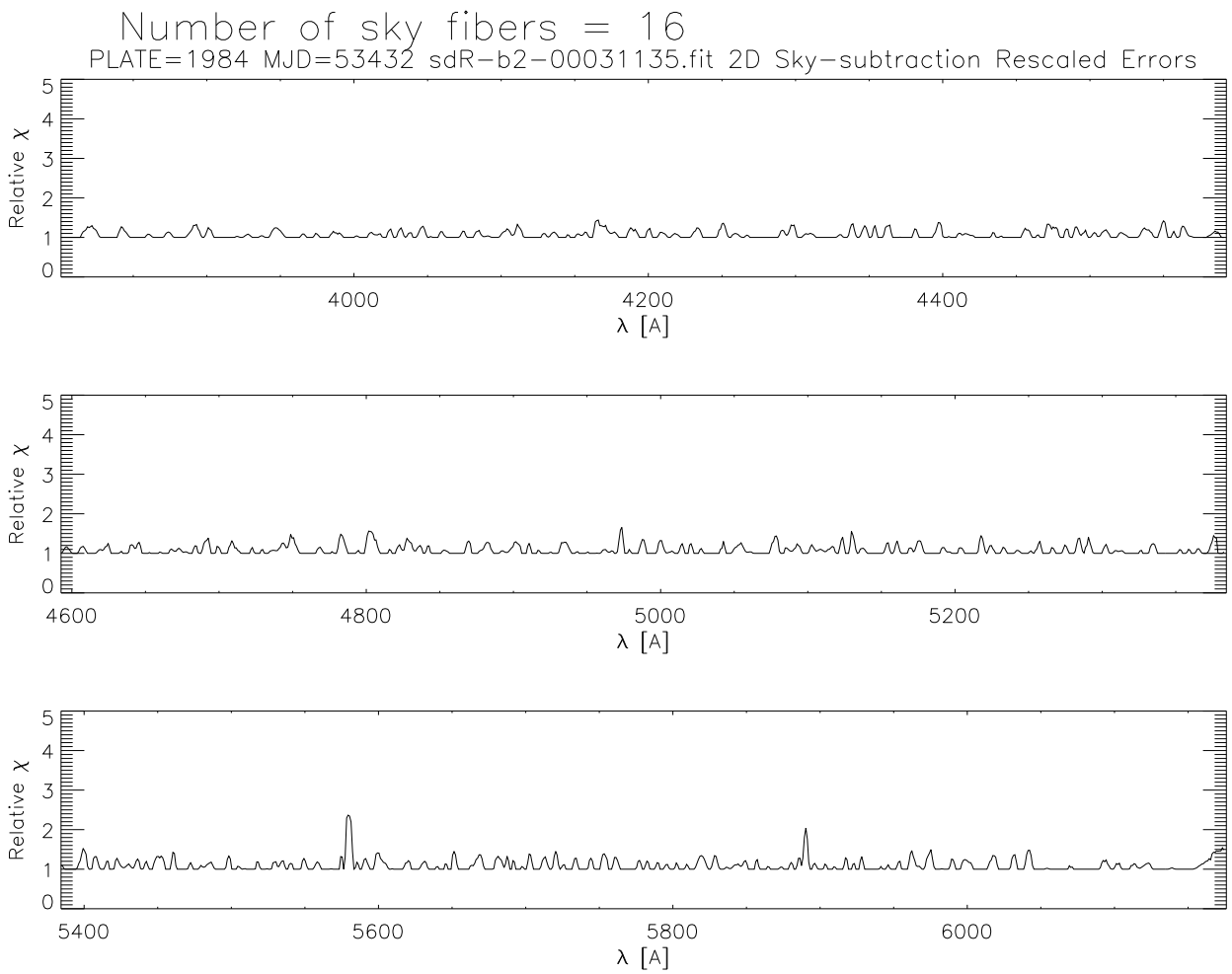

PLATE=1984 MJD=53432 sdR-b2-00031135.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

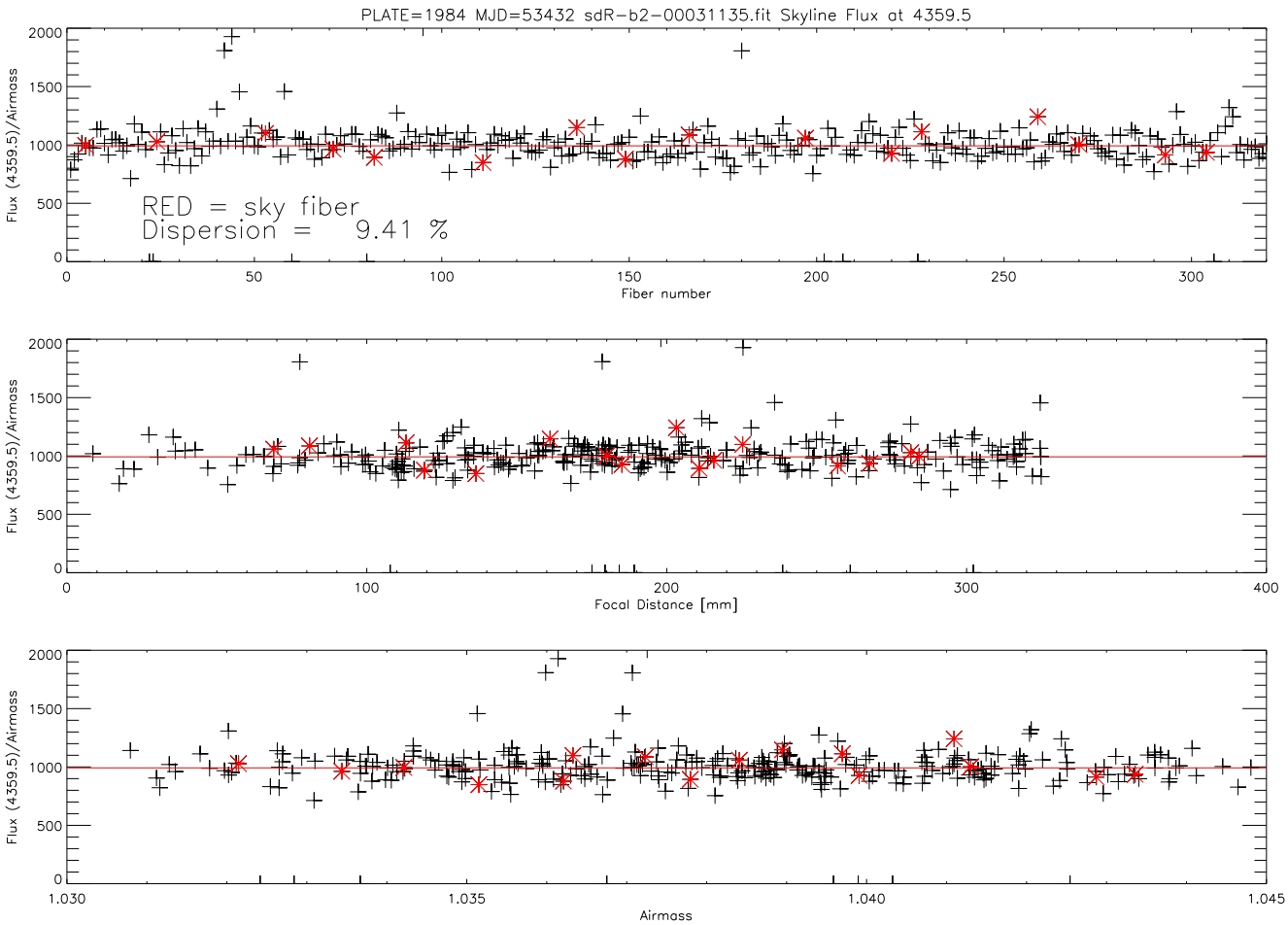

Number of sky fibers = 16
PLATE=1984 MJD=53432 sdR-b2-00031135.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

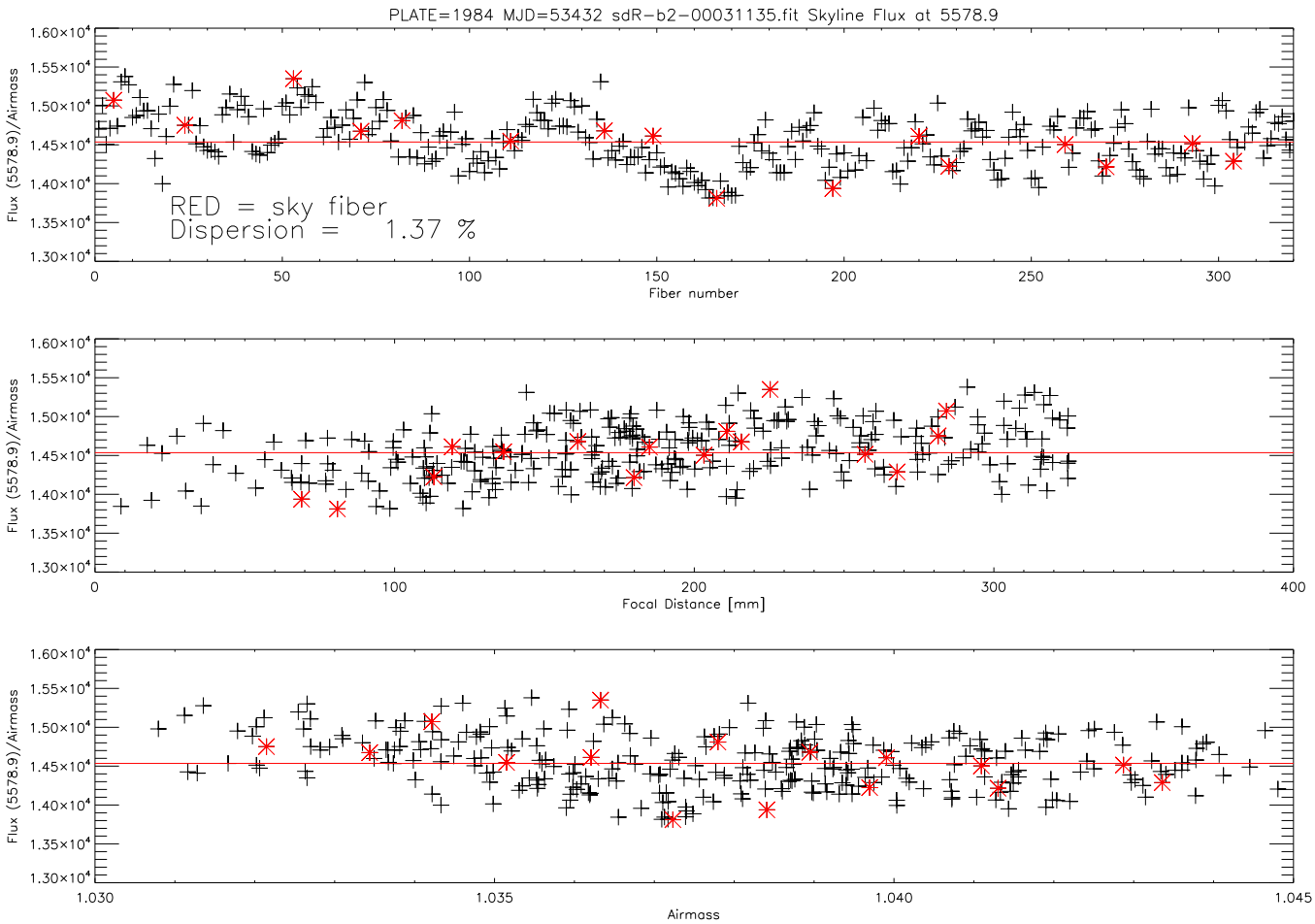

PLATE=1984 MJD=53432 sdR-b2-00031135.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-10
-8
-6
-4
-2
0
2
4
6
8
10
50
100
150
200
250
300
Fiber number

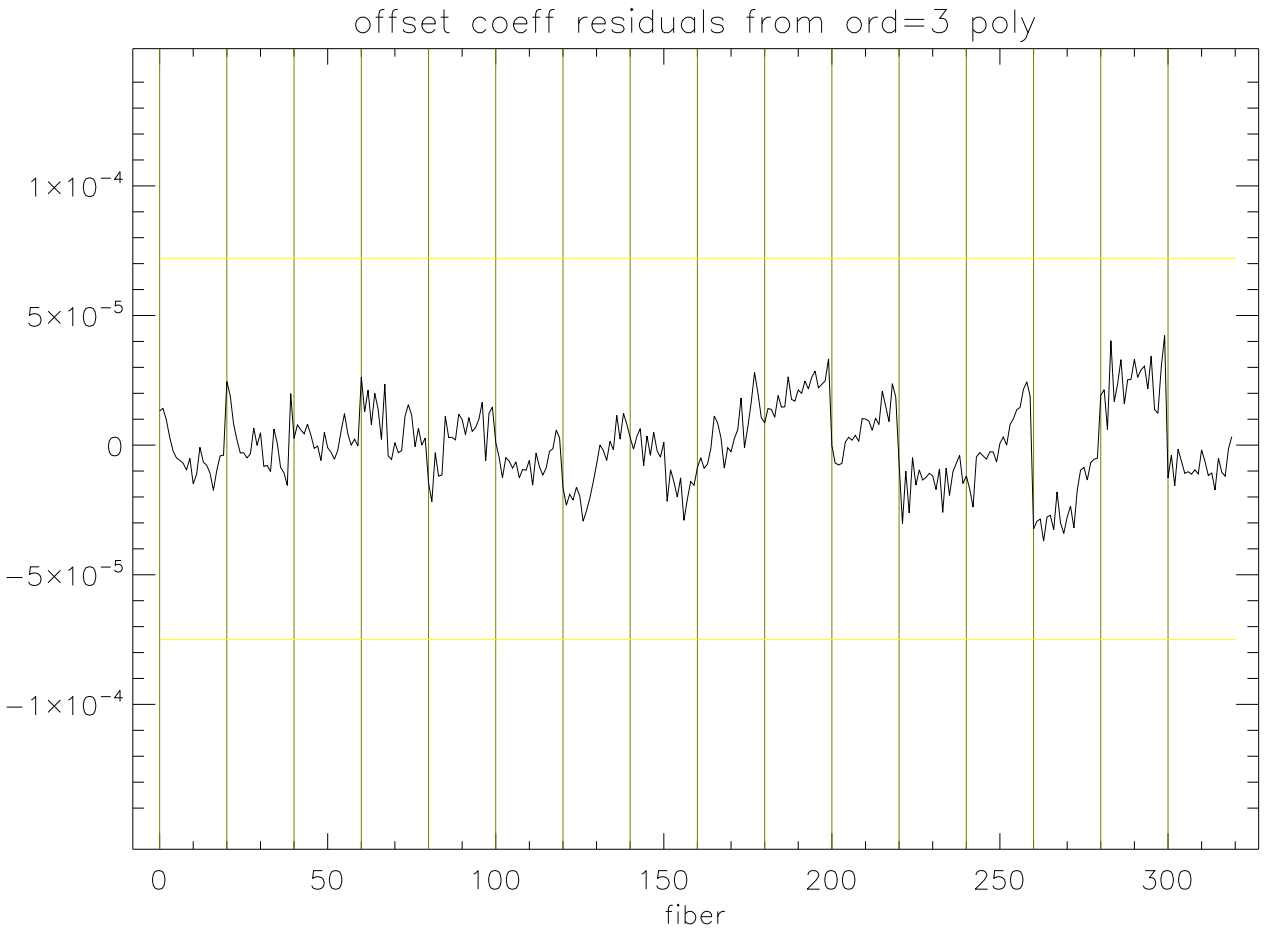

PLATE=1984 MJD=53432 sdR-b2-00031135.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

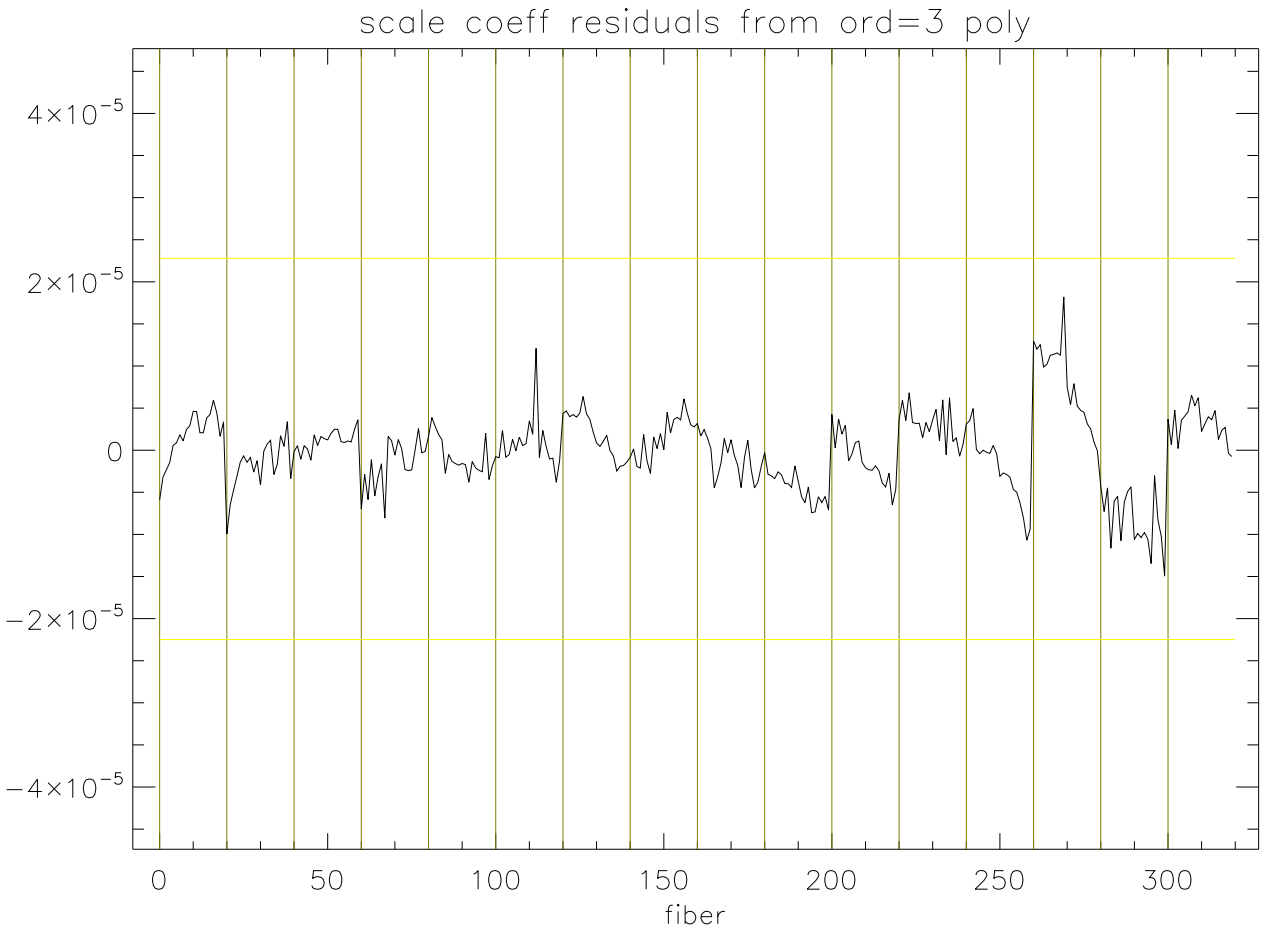

PLATE=1984 MJD=53432 sdR-b2-00031135.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

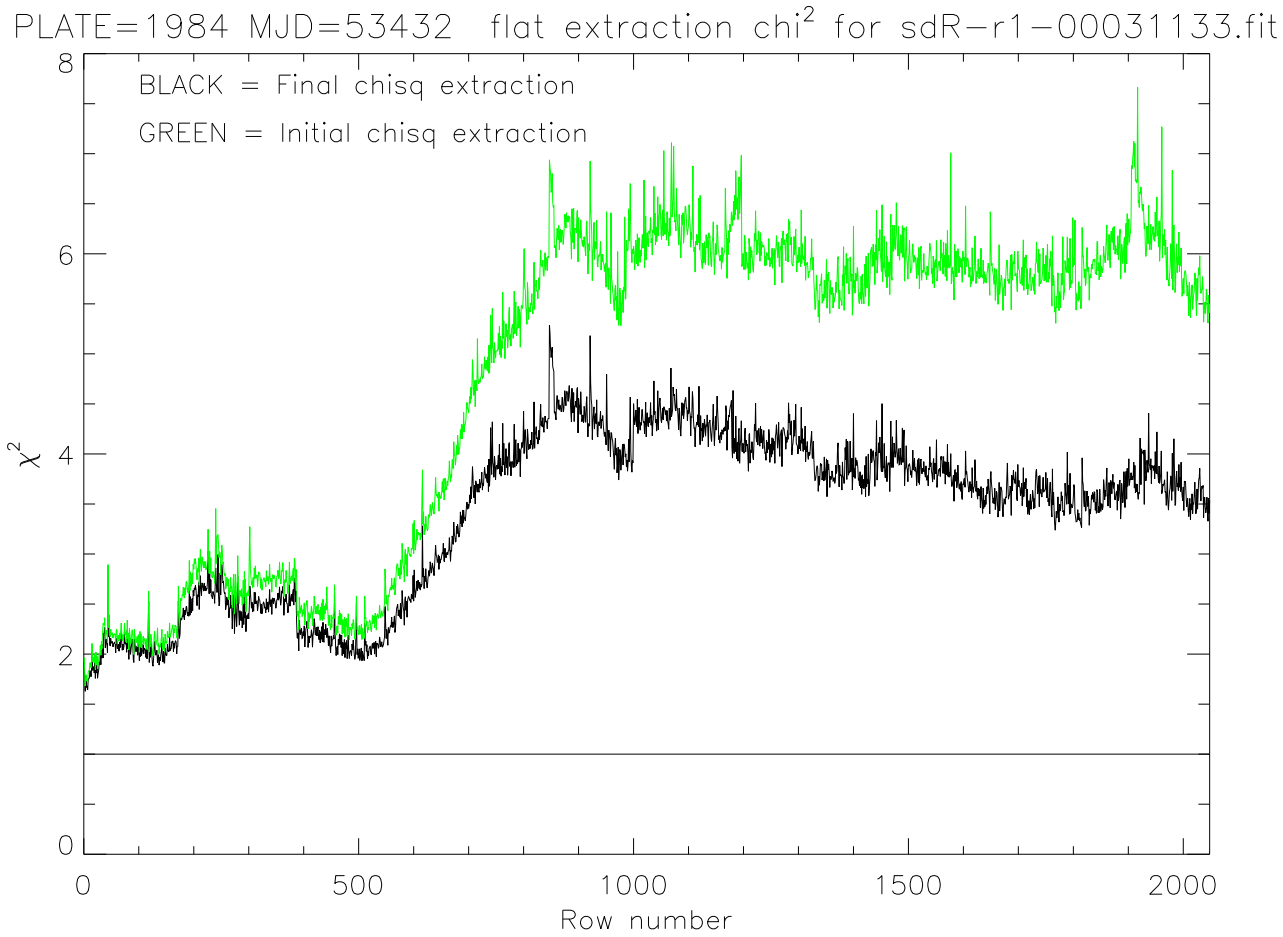

Number of sky fibers = 16
PLATE=1984 MJD=53432 sdR-b2-00031135.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

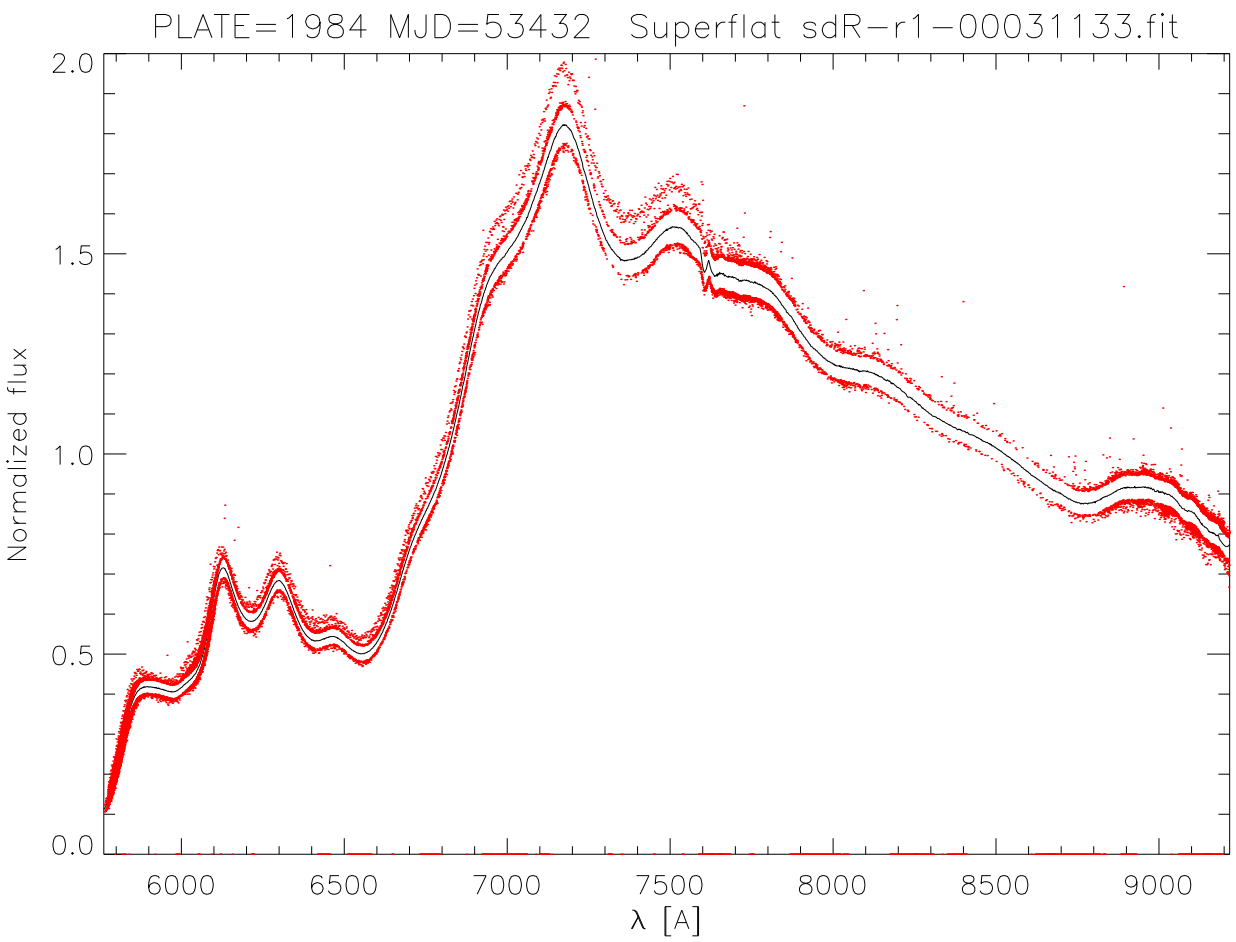

PLATE=1984 MJD=53432 sdR-b2-00031135.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 9.41 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

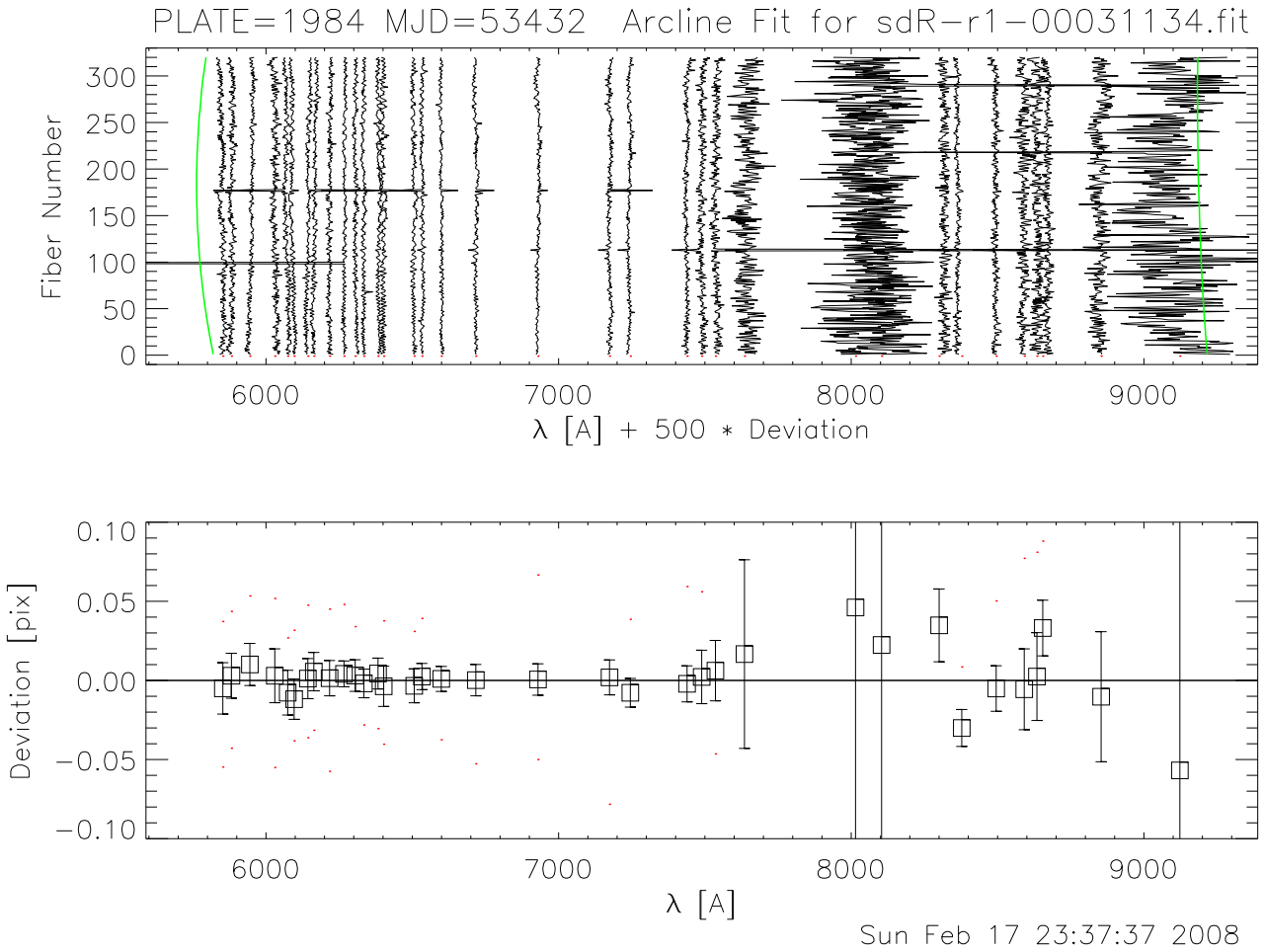

PLATE=1984 MJD=53432 sdR-b2-00031135.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.37 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

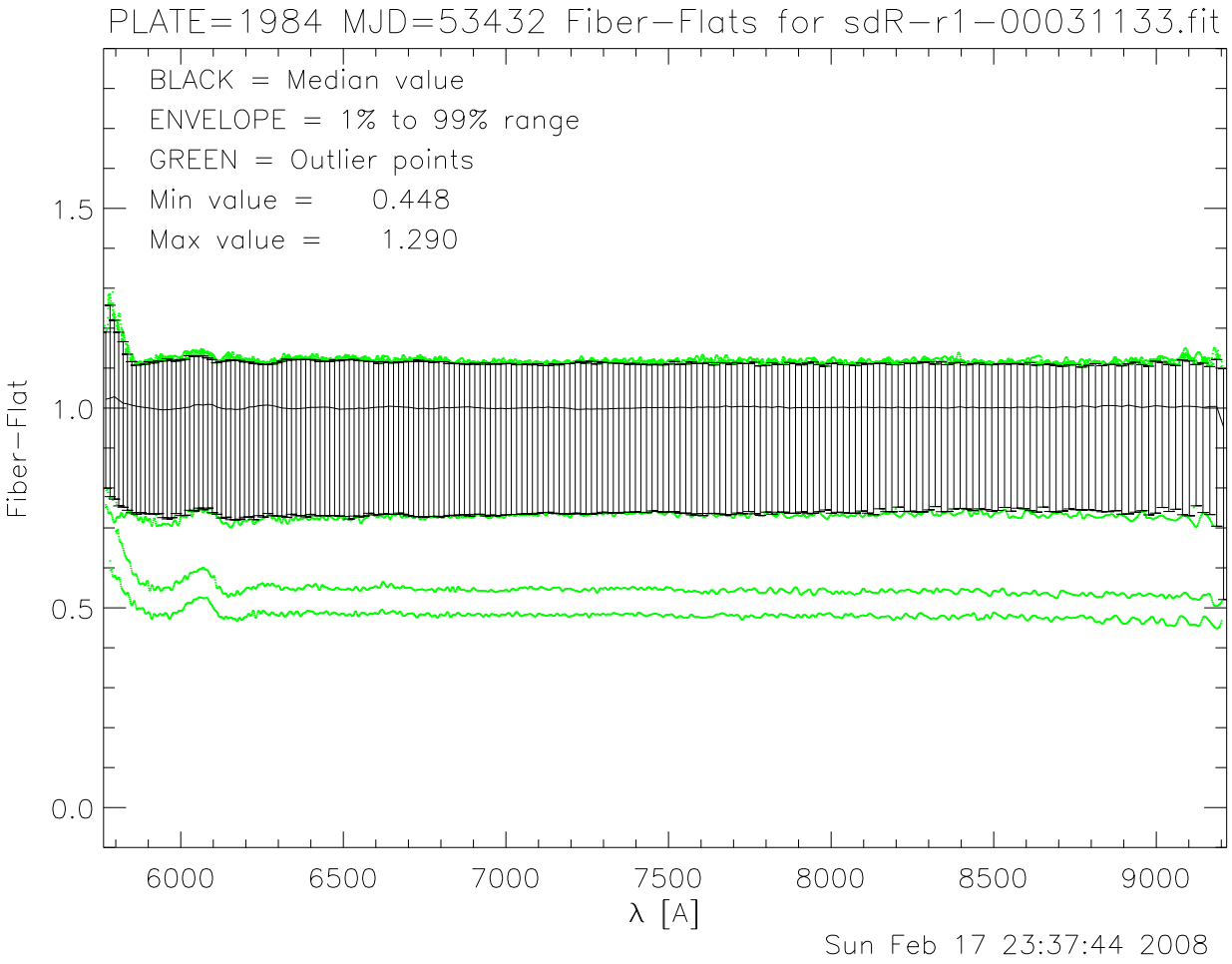

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

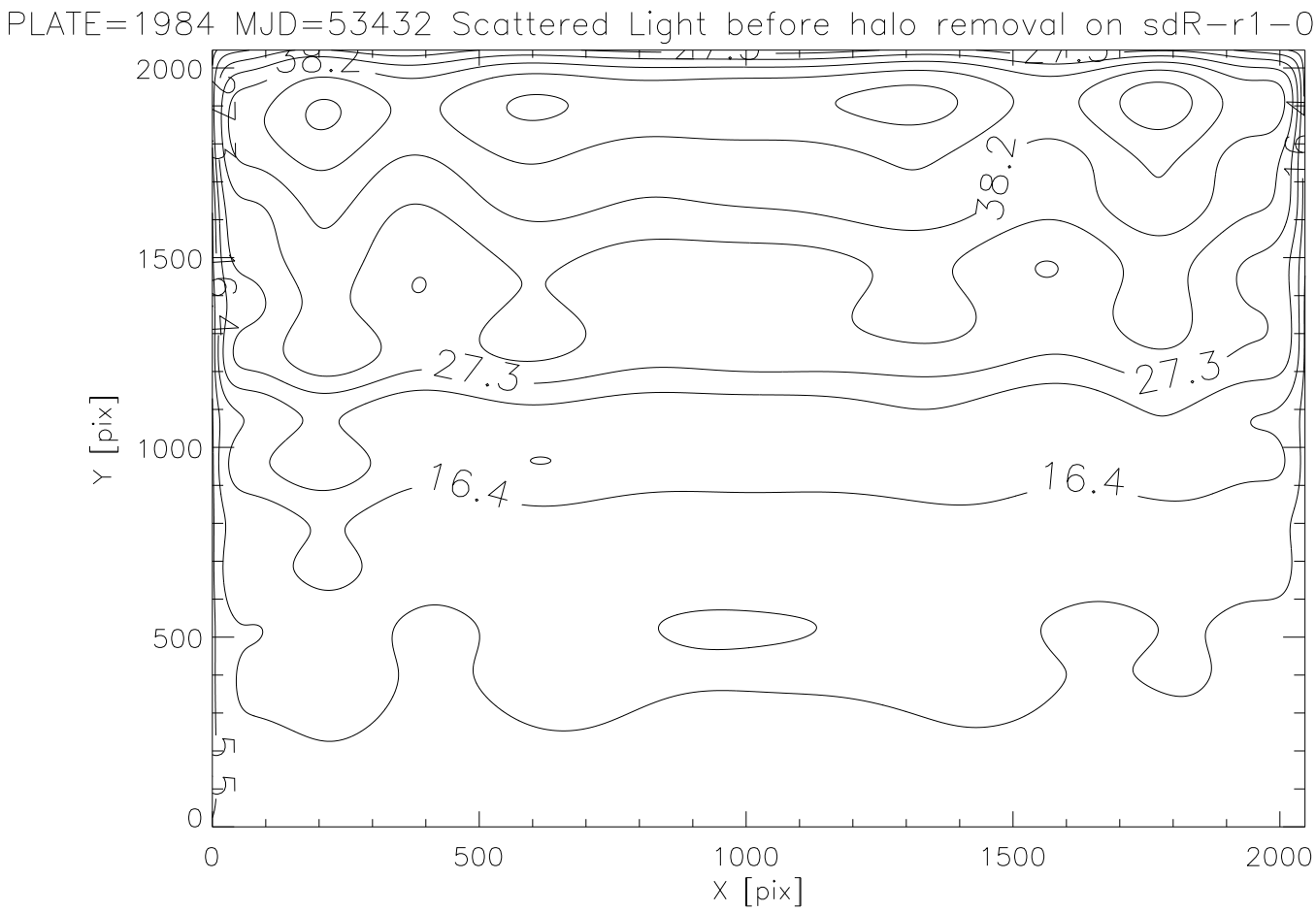

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

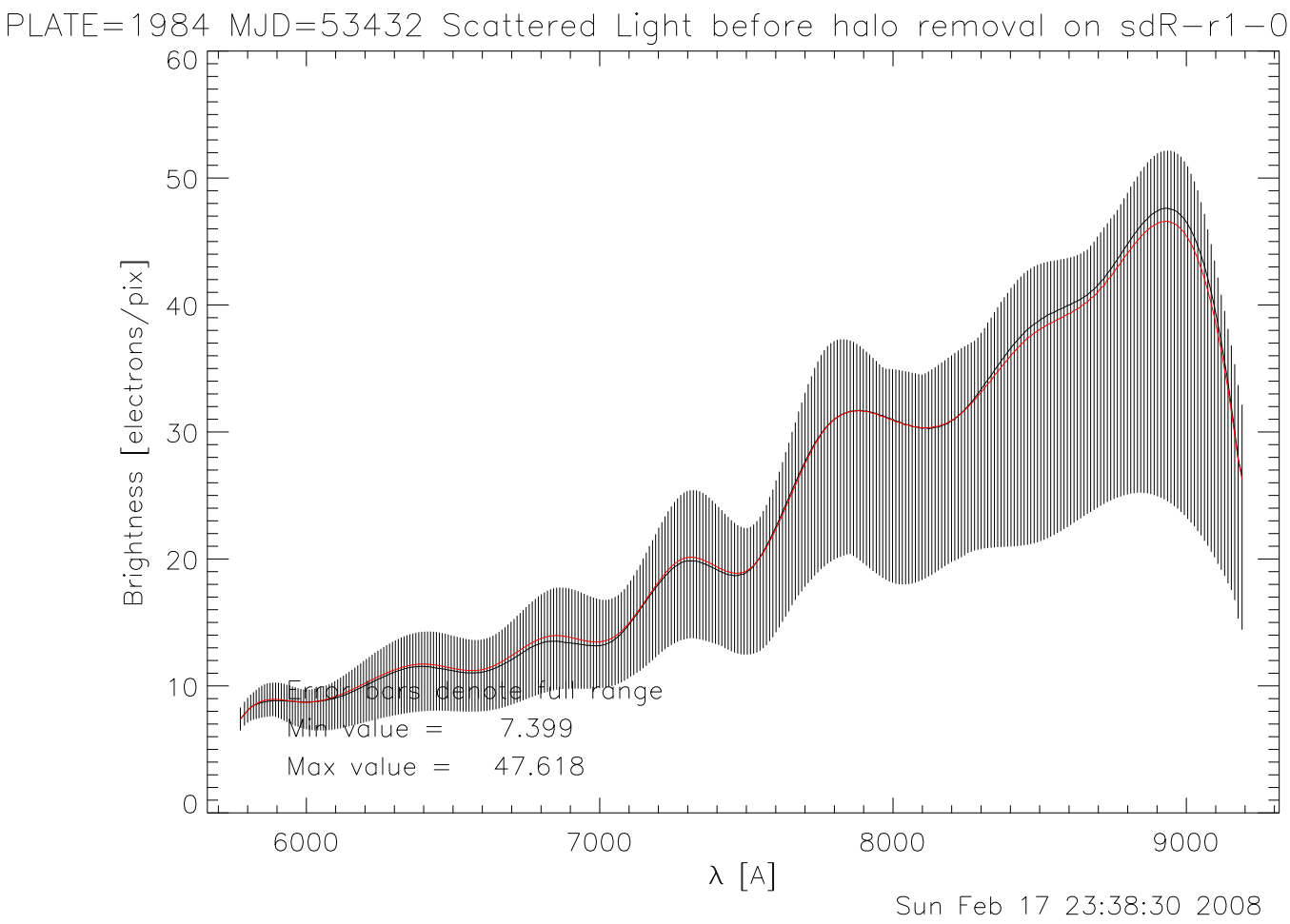

PLATE=1984 MJD=53432 flat extraction chi^2 for sdR−r1−00031133.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

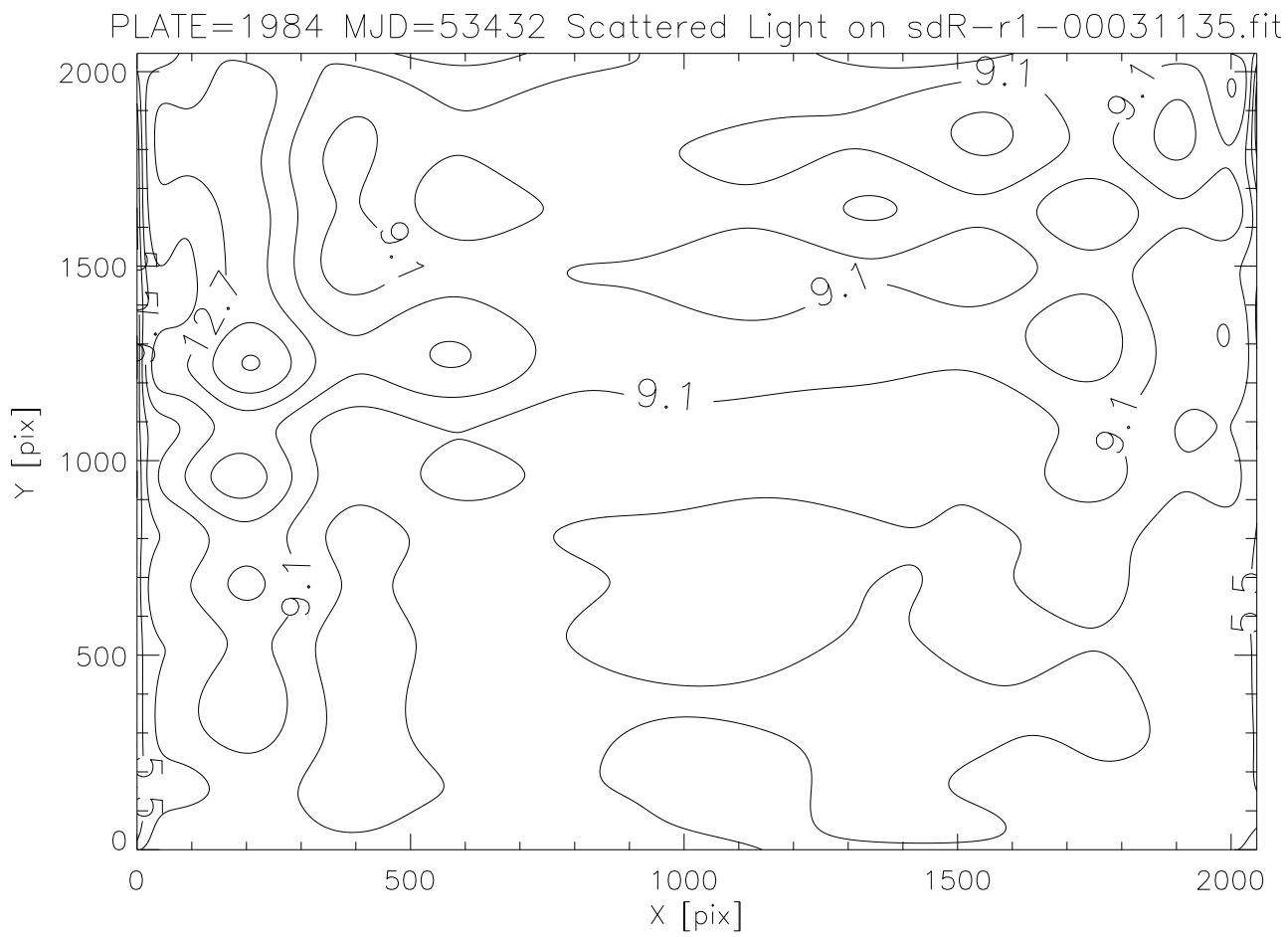

PLATE=1984 MJD=53432 Superflat sdR-r1-00031133.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

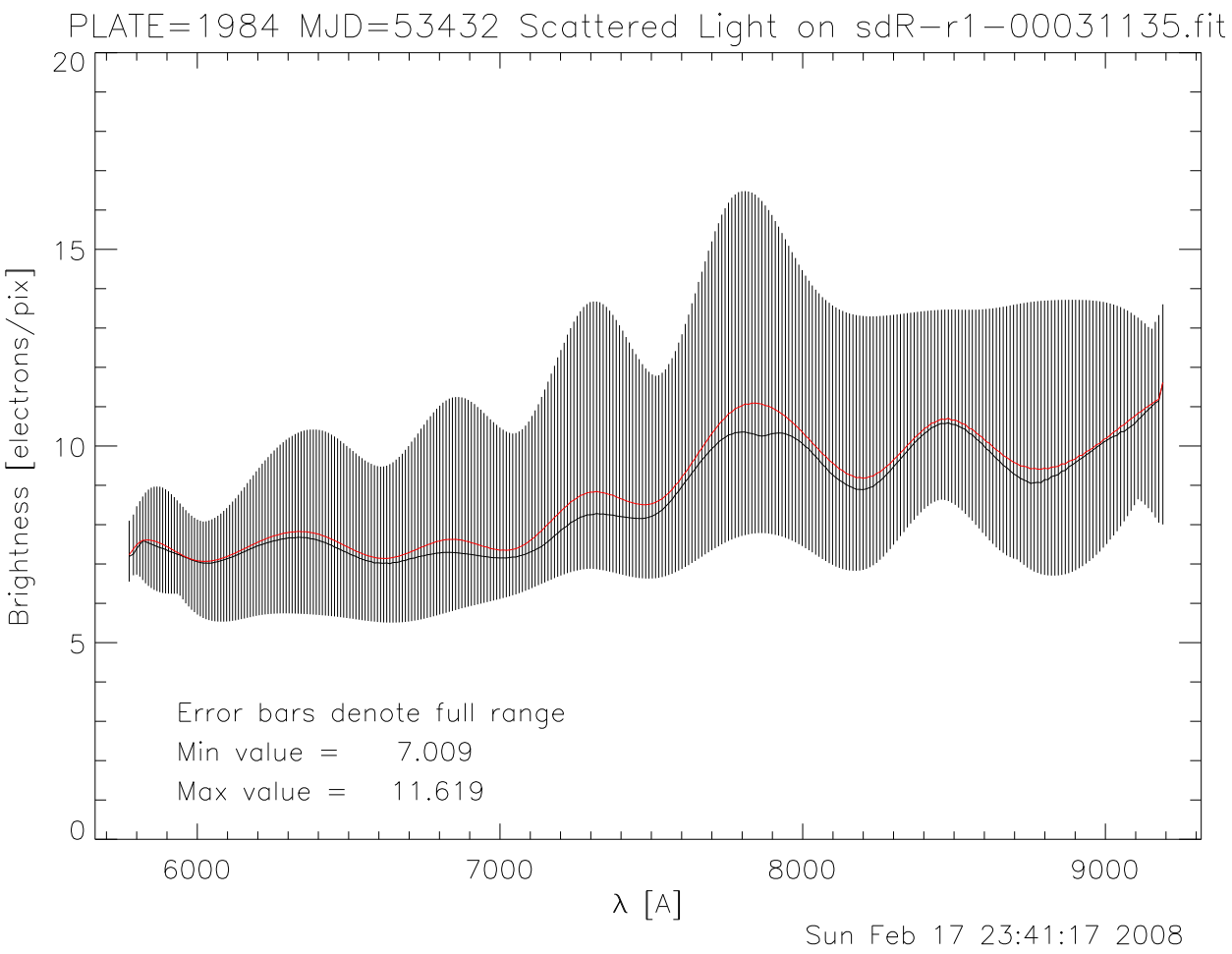

PLATE=1984 MJD=53432 Arcline Fit for sdR-r1-00031134.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Sun Feb 17 23:37:37 2008

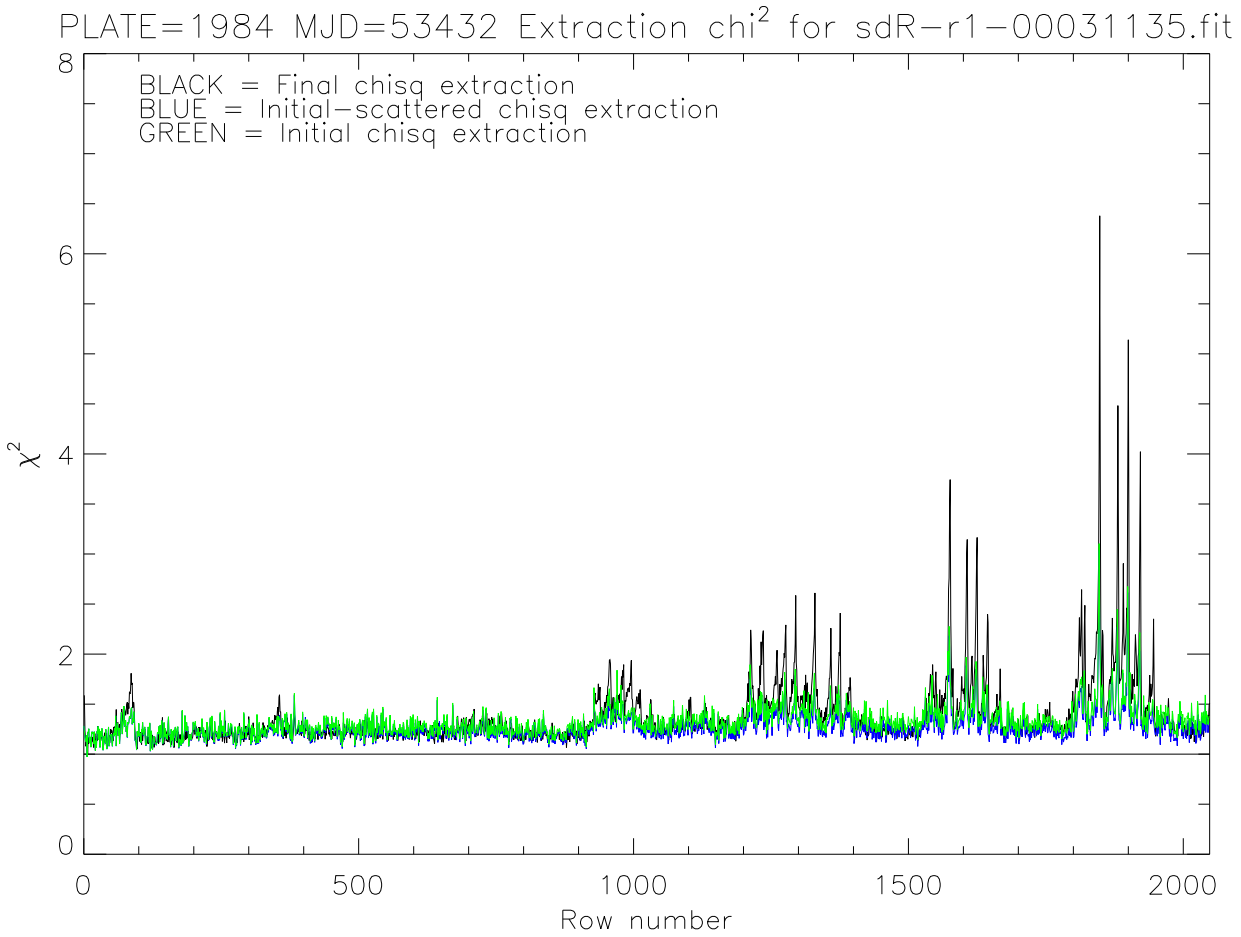

PLATE=1984 MJD=53432 Fiber−Flats for sdR−r1−00031133.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.448
Max value = 1.290
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sun Feb 17 23:37:44 2008

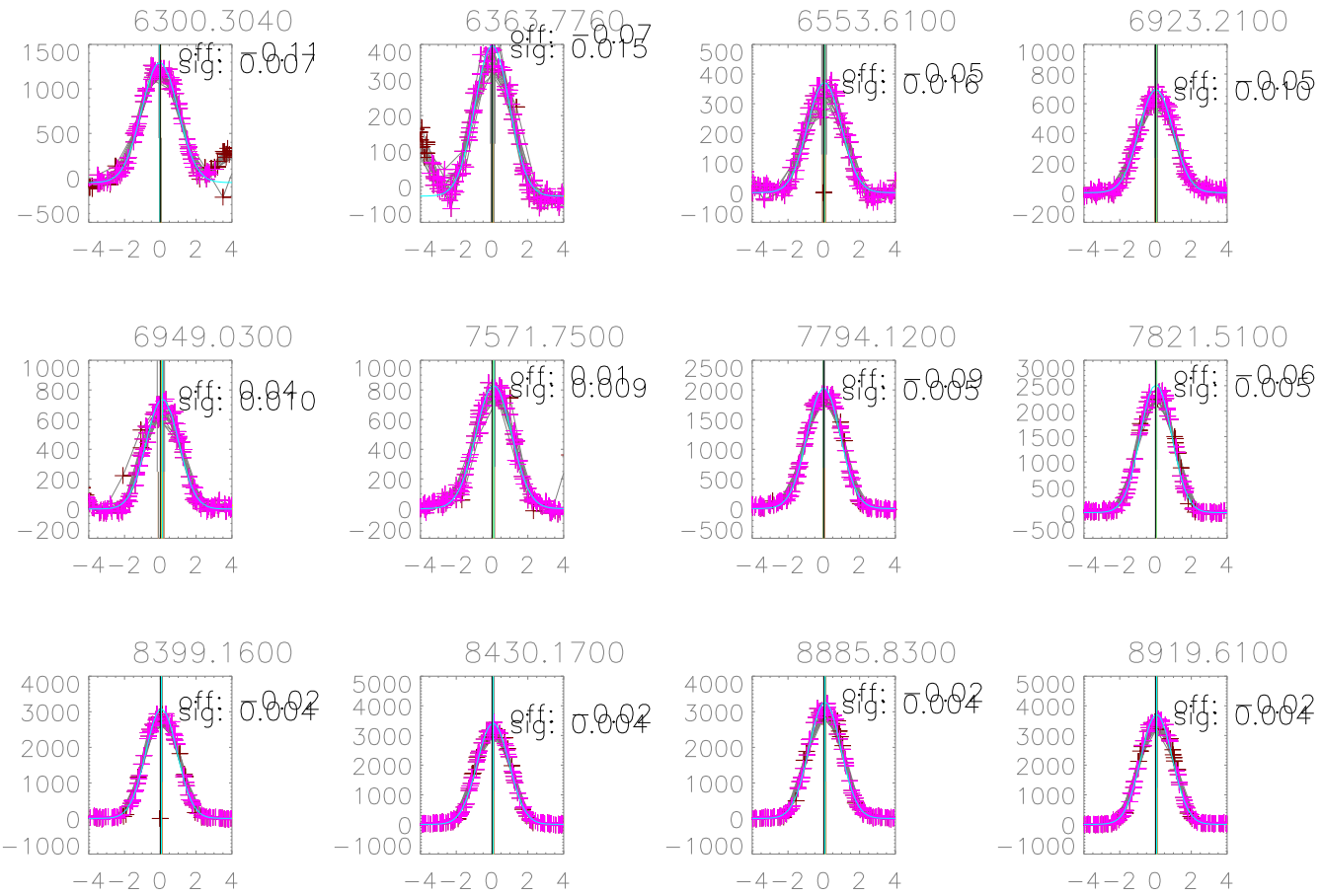

PLATE=1984 MJD=53432 Scattered Light before halo removal on sdR-r1-00031135.fi
38.2
38.2
27.3
27.3
16.4
16.4
Y [pix]
X [pix]
0
500
1000
1500
2000

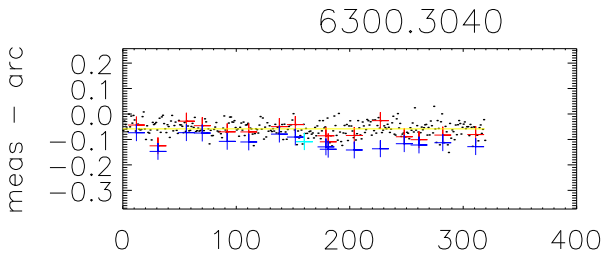

PLATE=1984 MJD=53432 Scattered Light before halo removal on sdR-r1-00031135.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.399
Max value = 47.618
Sun Feb 17 23:38:30 2008

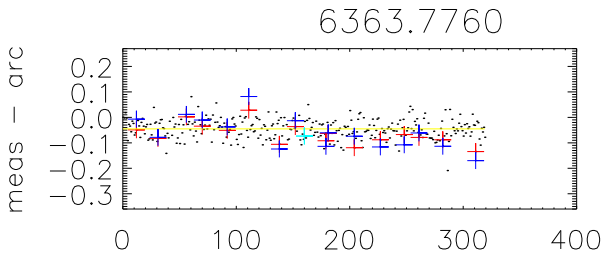

PLATE=1984 MJD=53432 Scattered Light on sdR−r1−00031135.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
9.1
5.5
12.7
0

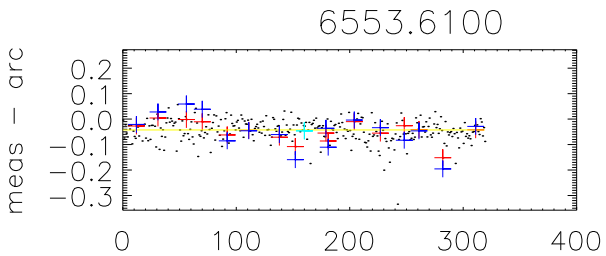

PLATE=1984 MJD=53432 Scattered Light on sdR-r1-00031135.fit
Brightness [electrons/pix]
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 7.009
Max value = 11.619
Sun Feb 17 23:41:17 2008

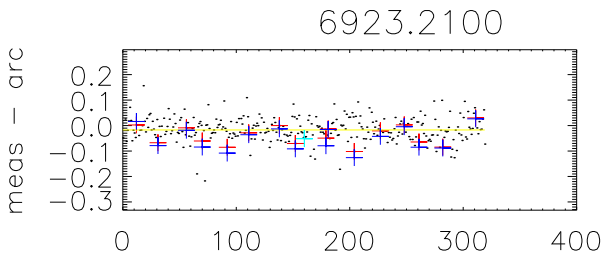

PLATE=1984 MJD=53432 Extraction chi^2 for sdR−r1−00031135.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

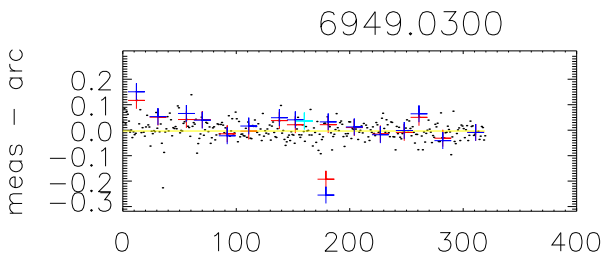

6300.3040
off: −0.11
sig: 0.007
6363.7760
off: −0.07
sig: 0.015
6553.6100
off: −0.05
sig: 0.018
6923.2100
off: −0.05
sig: 0.010
6949.0300
off: 0.04
sig: 0.010
7571.7500
off: 0.01
sig: 0.009
7794.1200
off: −0.09
sig: 0.005
7821.5100
off: −0.06
sig: 0.005
8399.1600
off: −0.02
sig: 0.004
8430.1700
off: −0.02
sig: 0.004
8885.8300
off: −0.02
sig: 0.004
8919.6100
off: −0.02
sig: 0.004

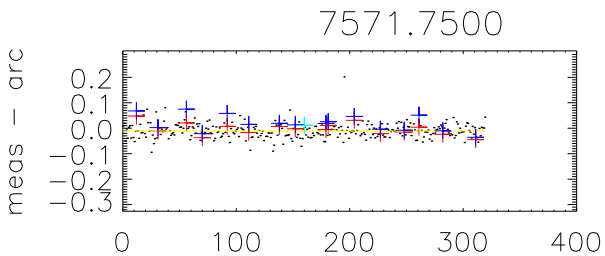

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

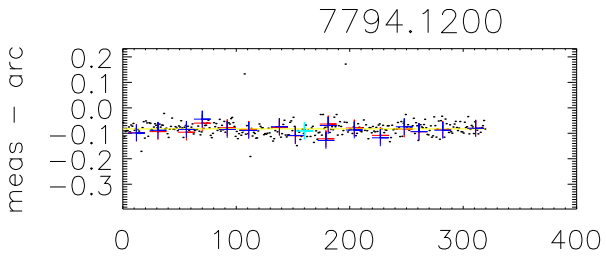

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

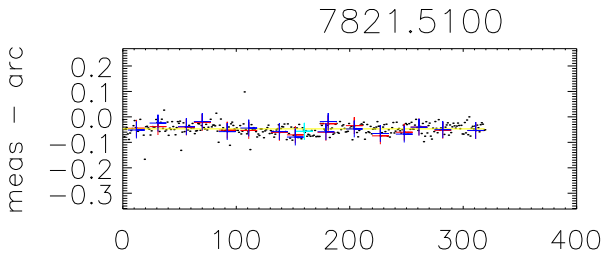

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

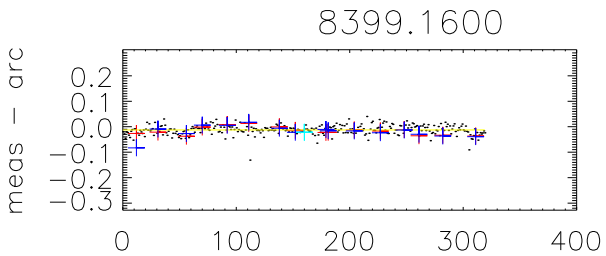

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

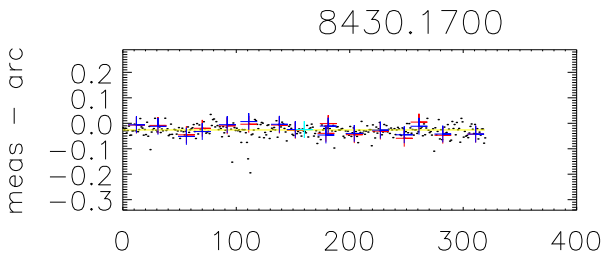

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

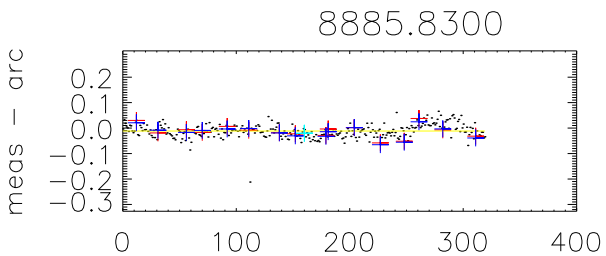

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

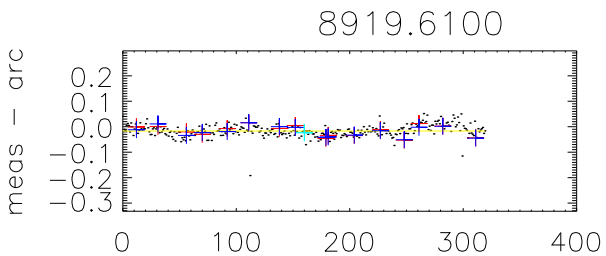

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

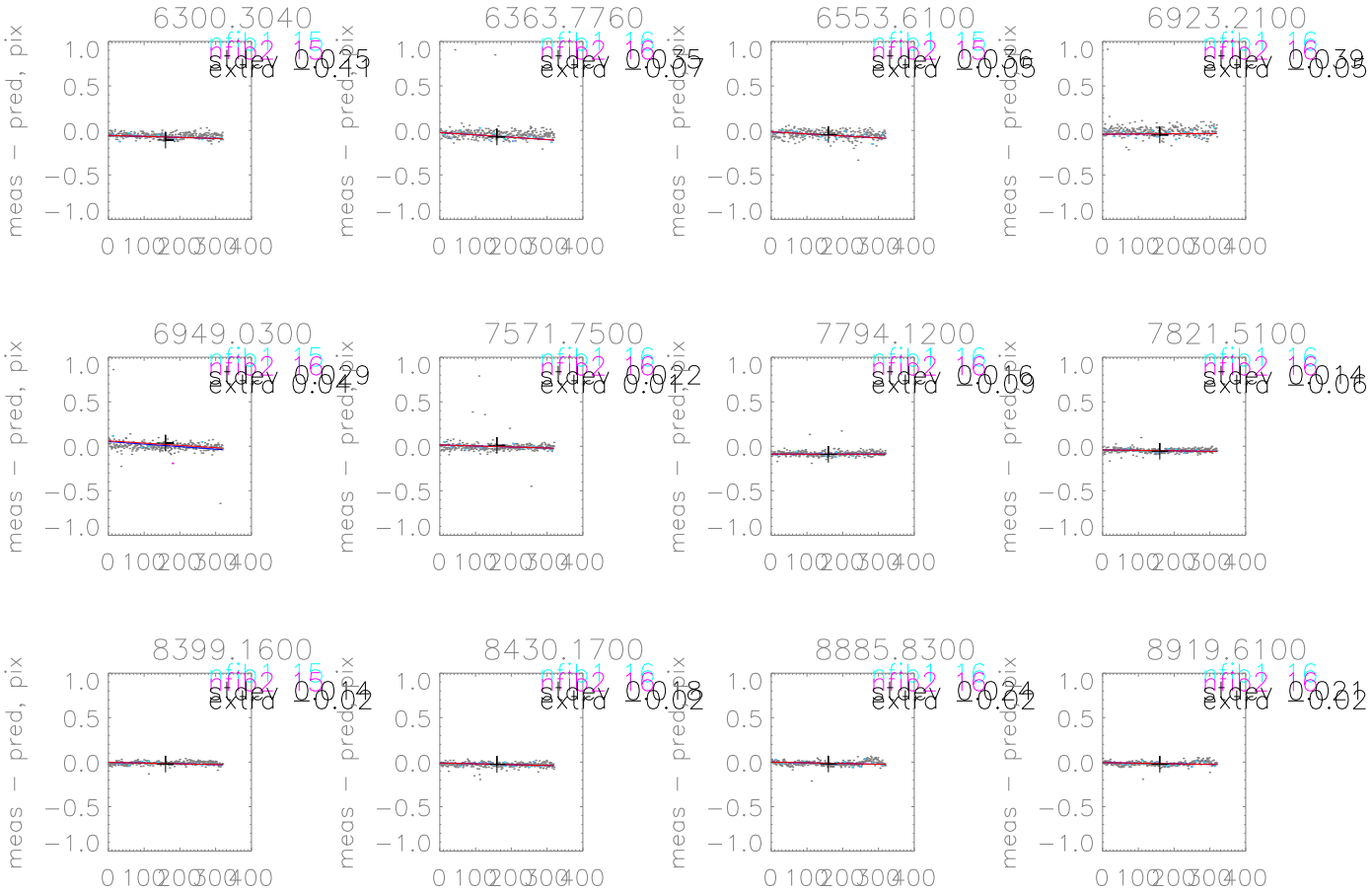

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

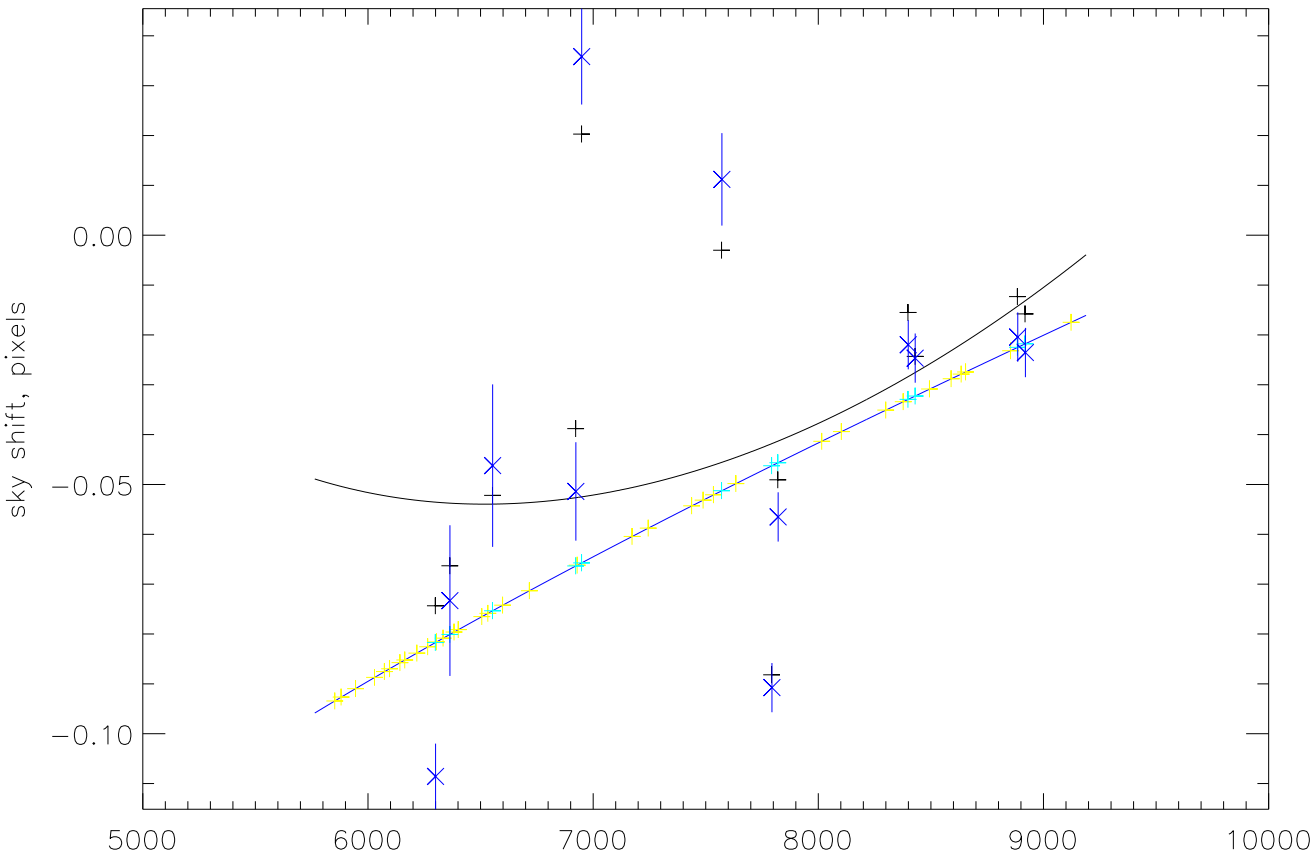

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

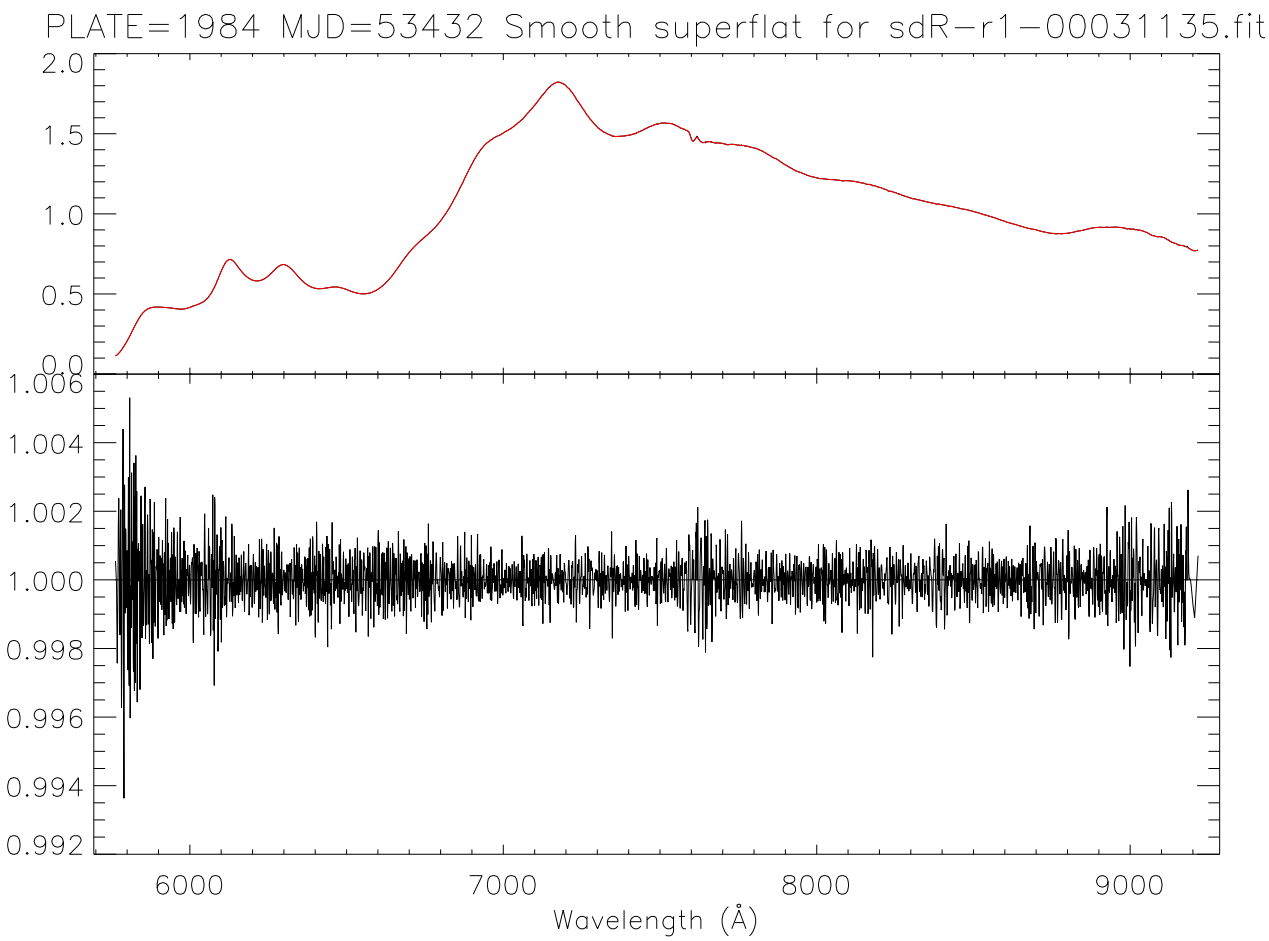

8885.8300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

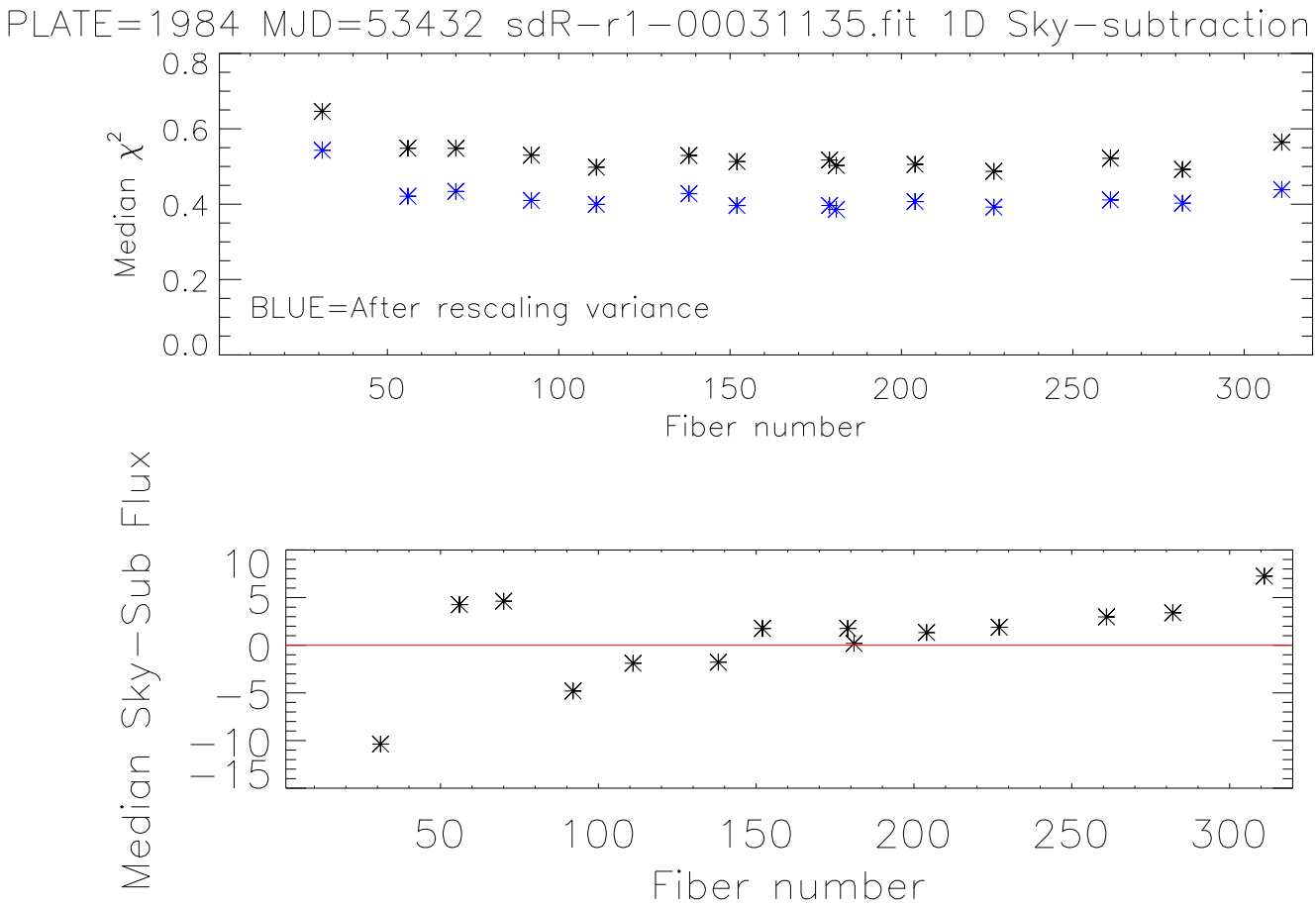

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


6300.3040
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
mfhi1 15
mfhi2 15
mfhi1 16
mfhi2 16
stdev 0.025
extrd 0.041
stdev 0.035
extrd 0.057
stdev 0.036
extrd 0.058
stdev 0.039
extrd 0.063
stdev 0.029
extrd 0.047
stdev 0.022
extrd 0.037
stdev 0.046
extrd 0.074
stdev 0.014
extrd 0.023
stdev 0.014
extrd 0.022
stdev 0.018
extrd 0.029
stdev 0.024
extrd 0.038
stdev 0.021
extrd 0.034

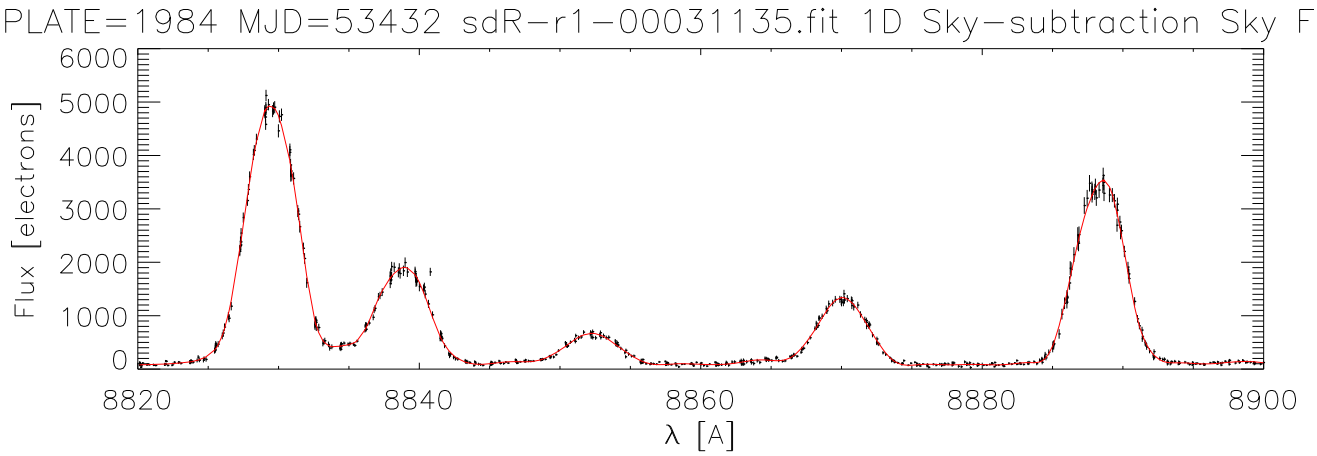

sky shift, pixels
0.00
−0.05
−0.10
5000
6000
7000
8000
9000
10000

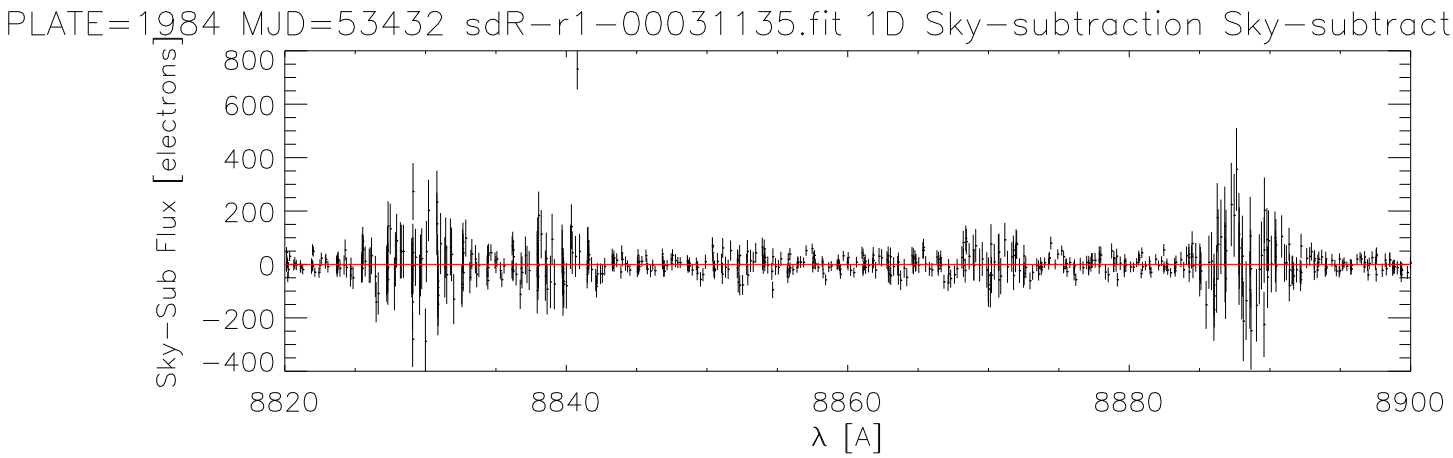
es= −0.0000

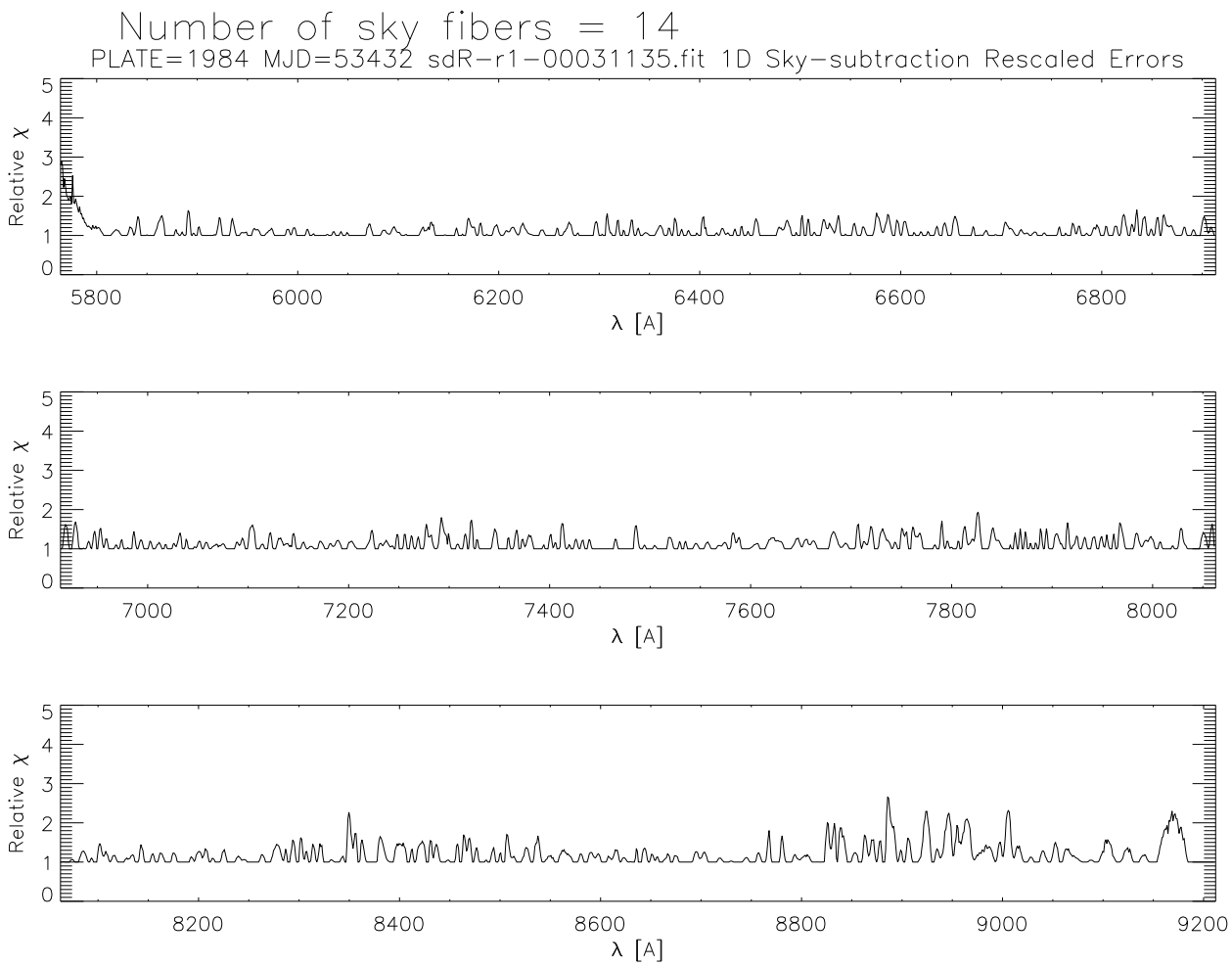

PLATE=1984 MJD=53432 Smooth superflat for sdR−r1−00031135.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
6000
7000
8000
9000
Wavelength (Å)

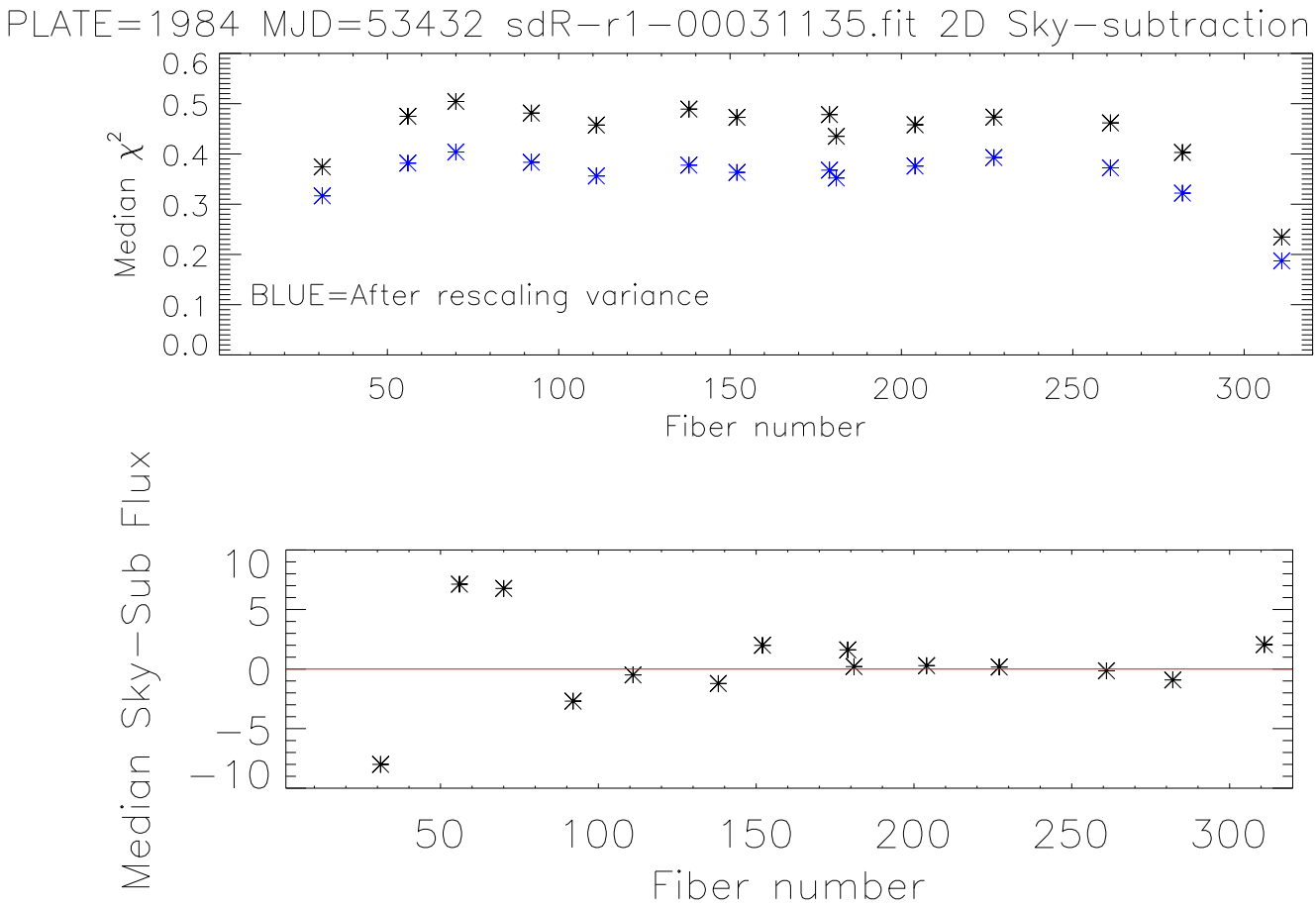

PLATE=1984 MJD=53432 sdR-r1-00031135.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

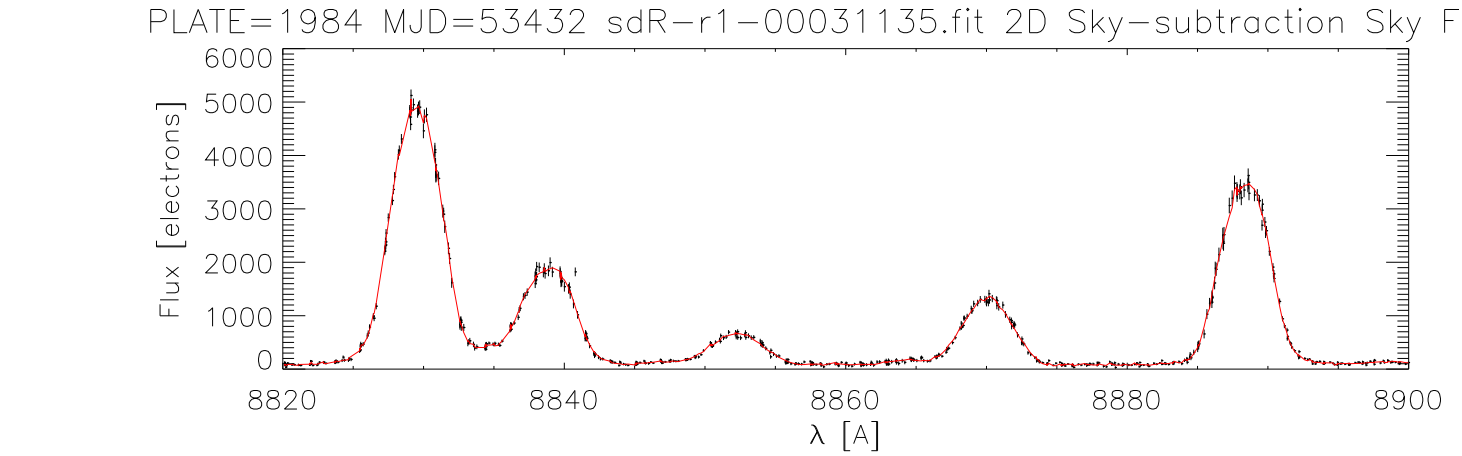
Median Sky-Sub Flux
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

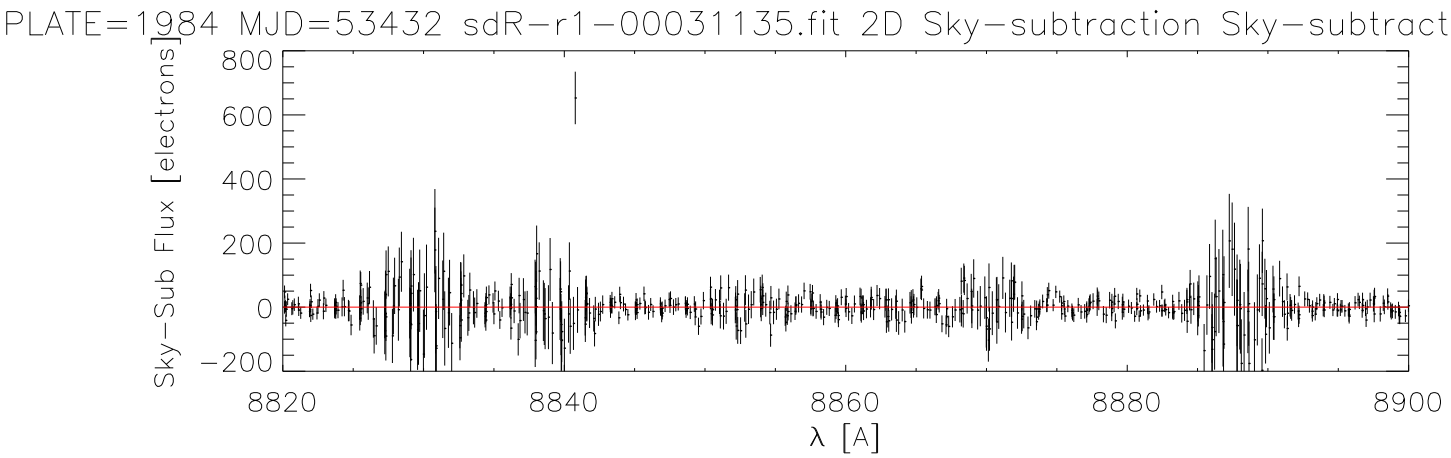

PLATE=1984 MJD=53432 sdR-r1-00031135.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

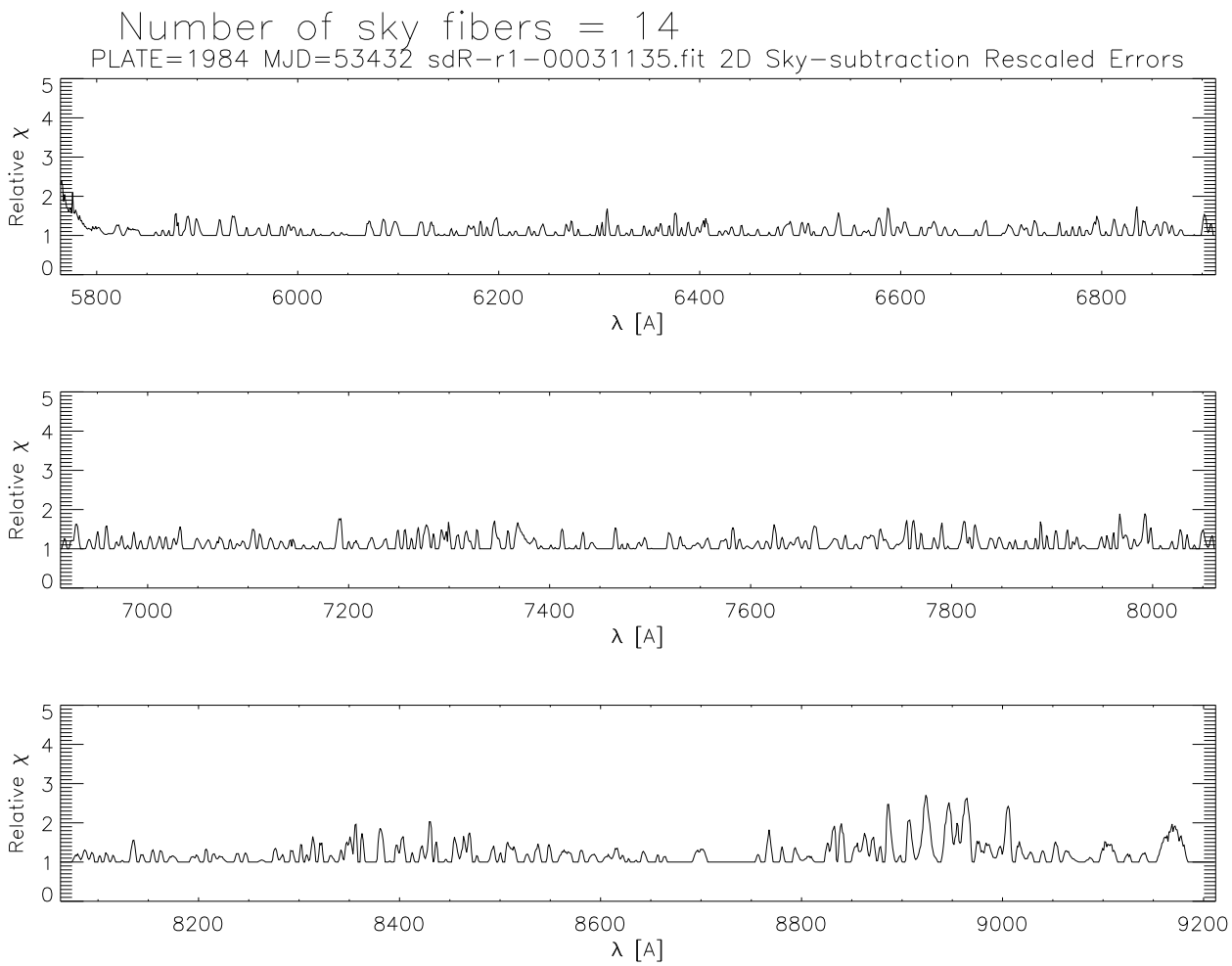

PLATE=1984 MJD=53432 sdR-r1-00031135.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

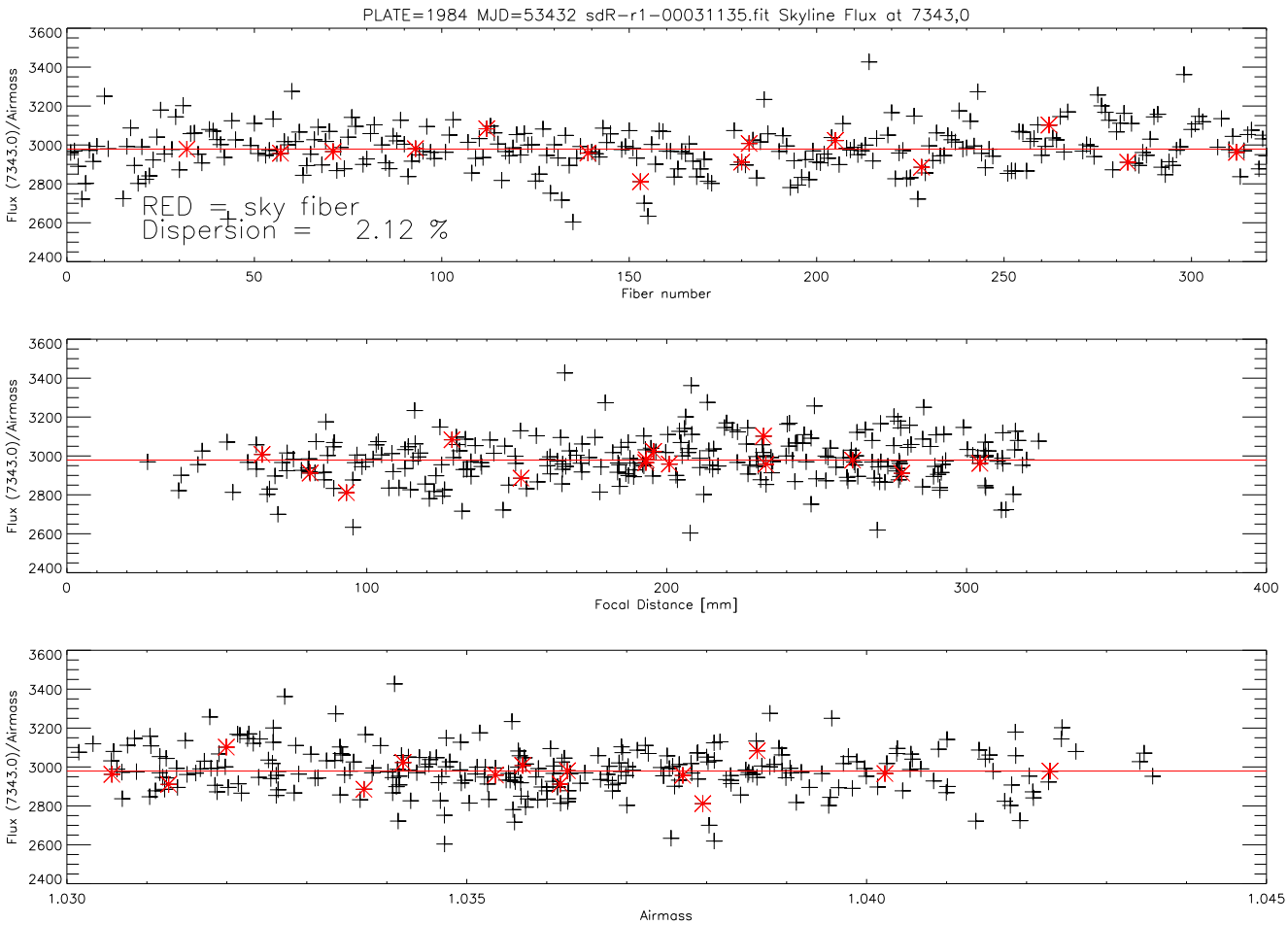

Number of sky fibers = 14
PLATE=1984 MJD=53432 sdR-r1-00031135.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

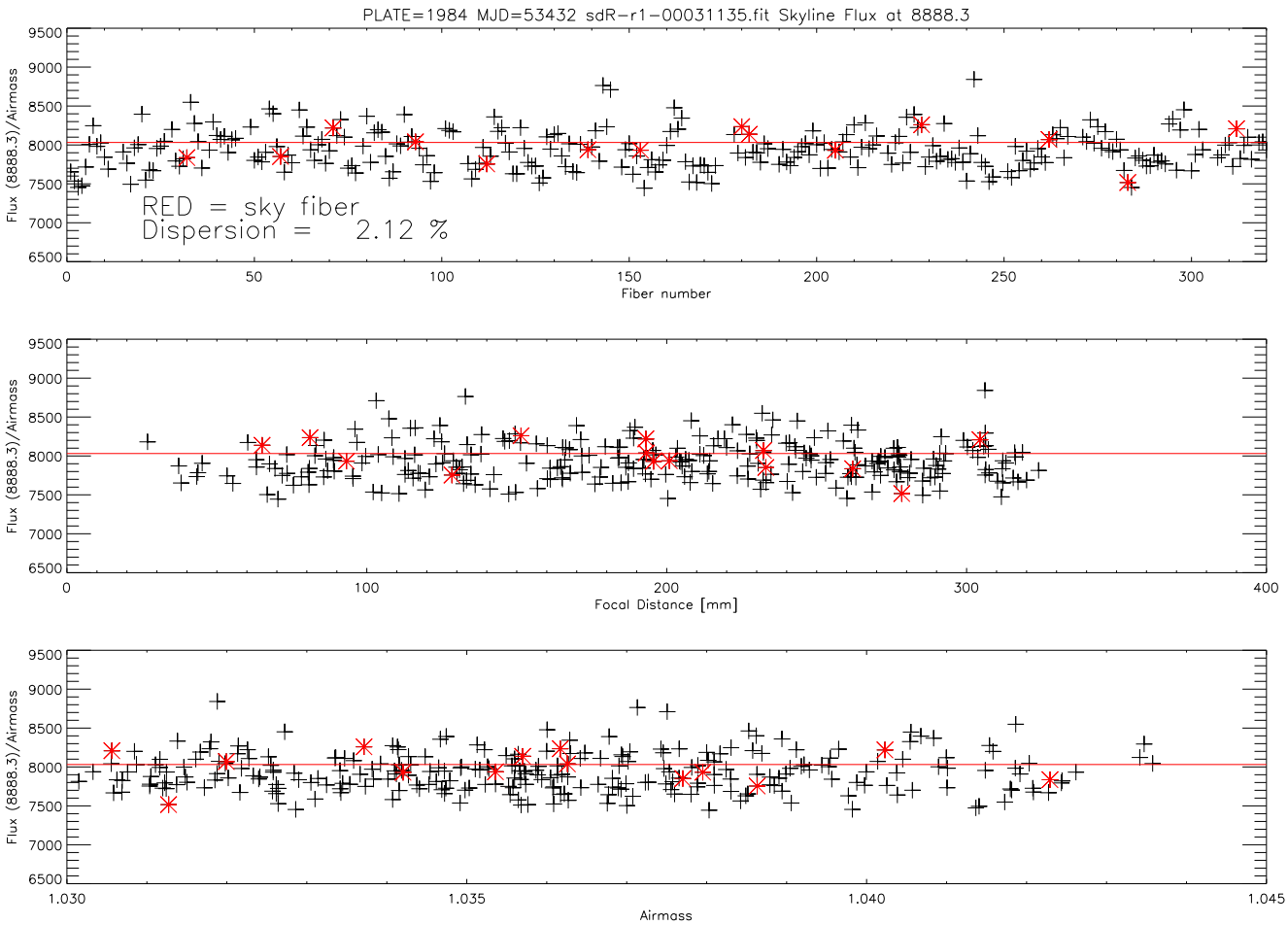

PLATE=1984 MJD=53432 sdR-r1-00031135.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

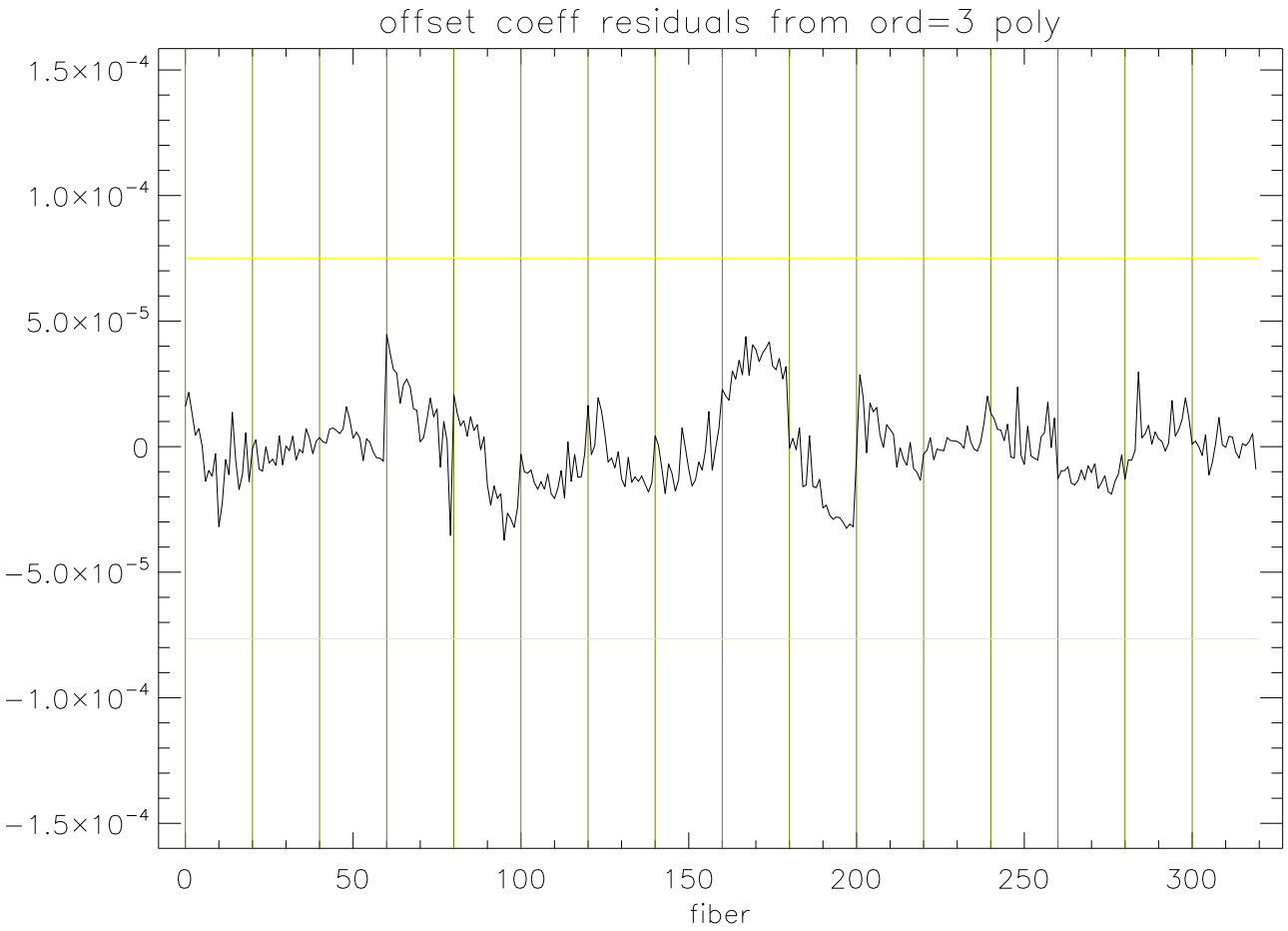

PLATE=1984 MJD=53432 sdR-r1-00031135.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

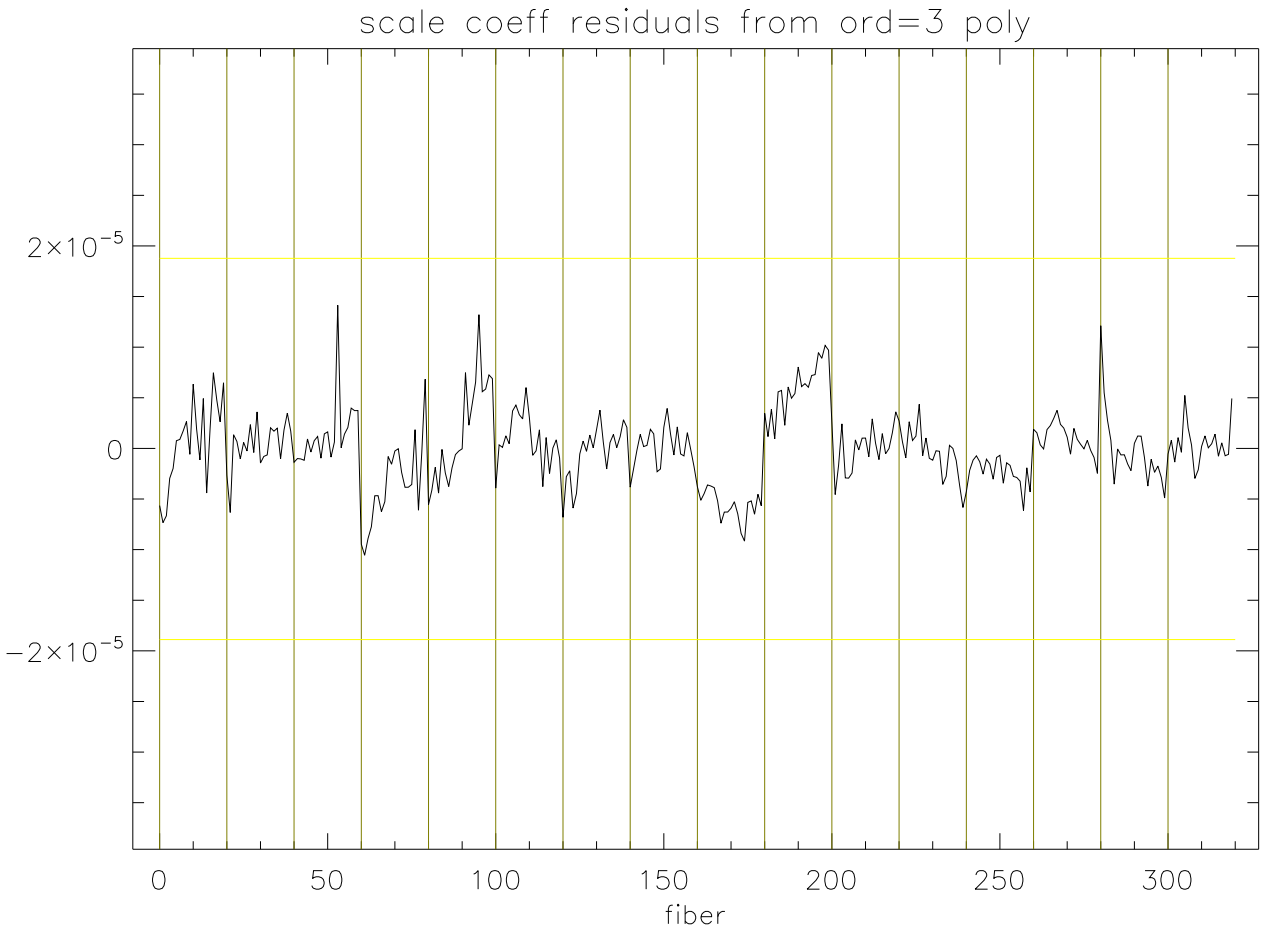

PLATE=1984 MJD=53432 sdR-r1-00031135.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

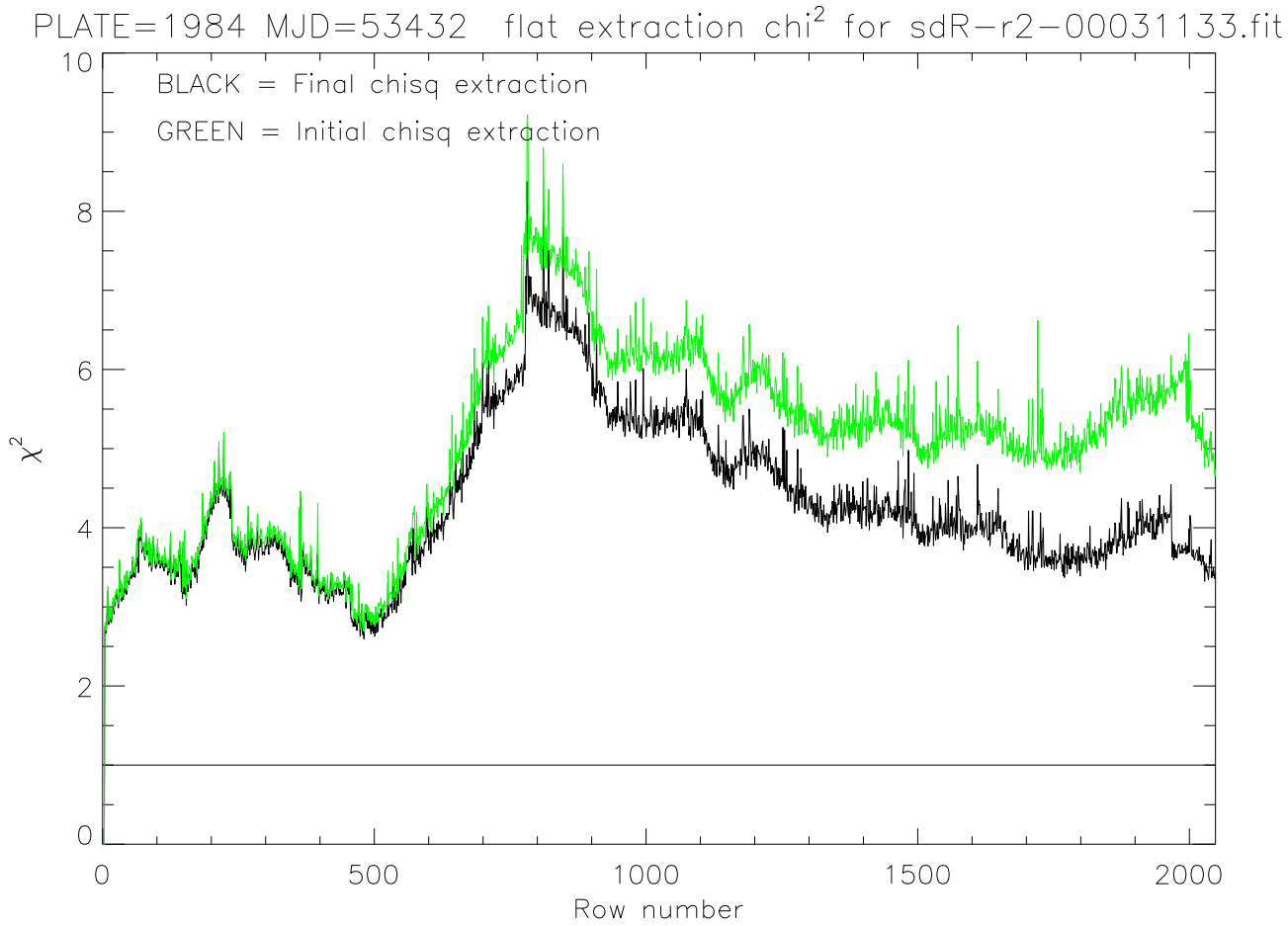

Number of sky fibers = 14
PLATE=1984 MJD=53432 sdR-r1-00031135.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

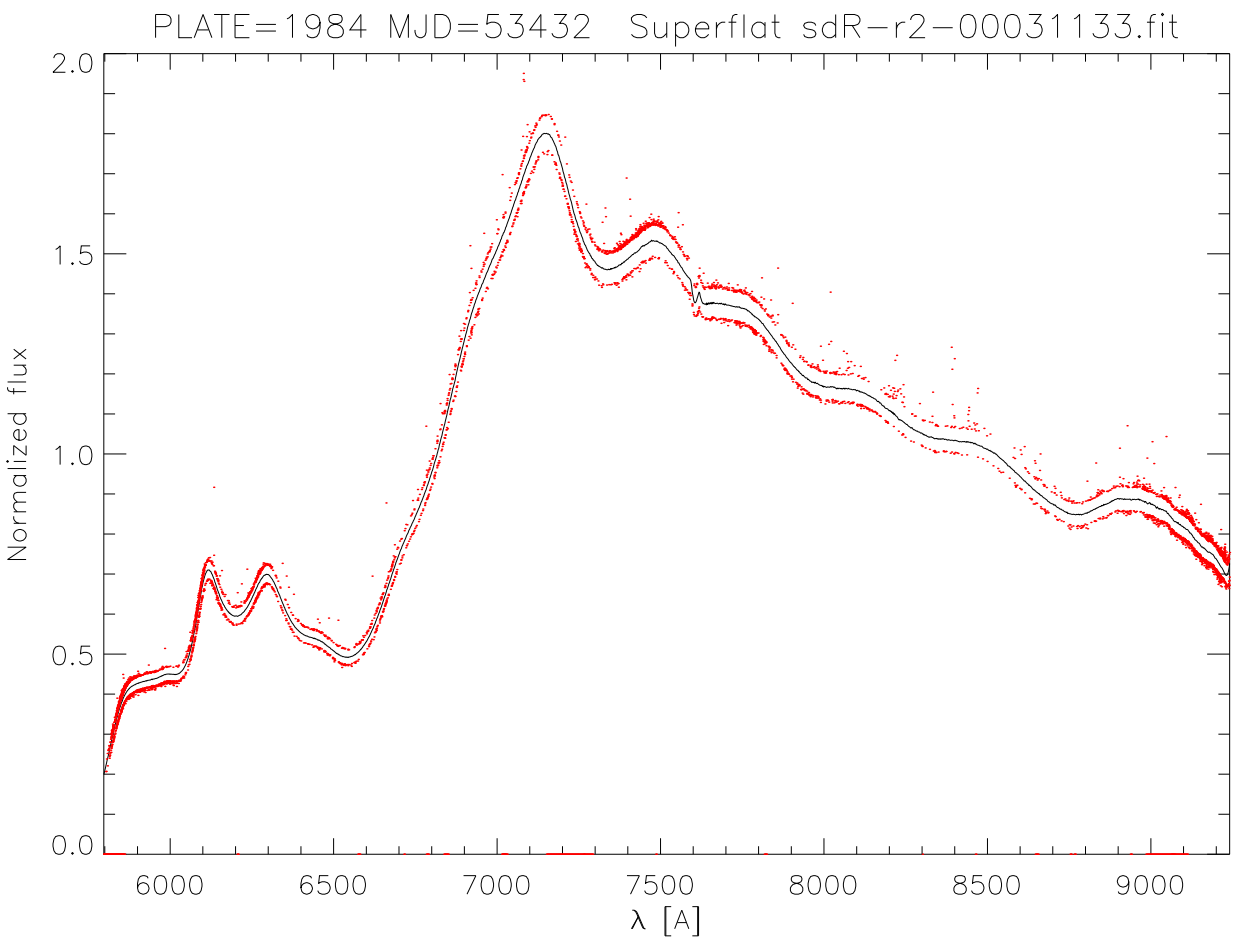

PLATE=1984 MJD=53432 sdR-r1-00031135.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.12 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

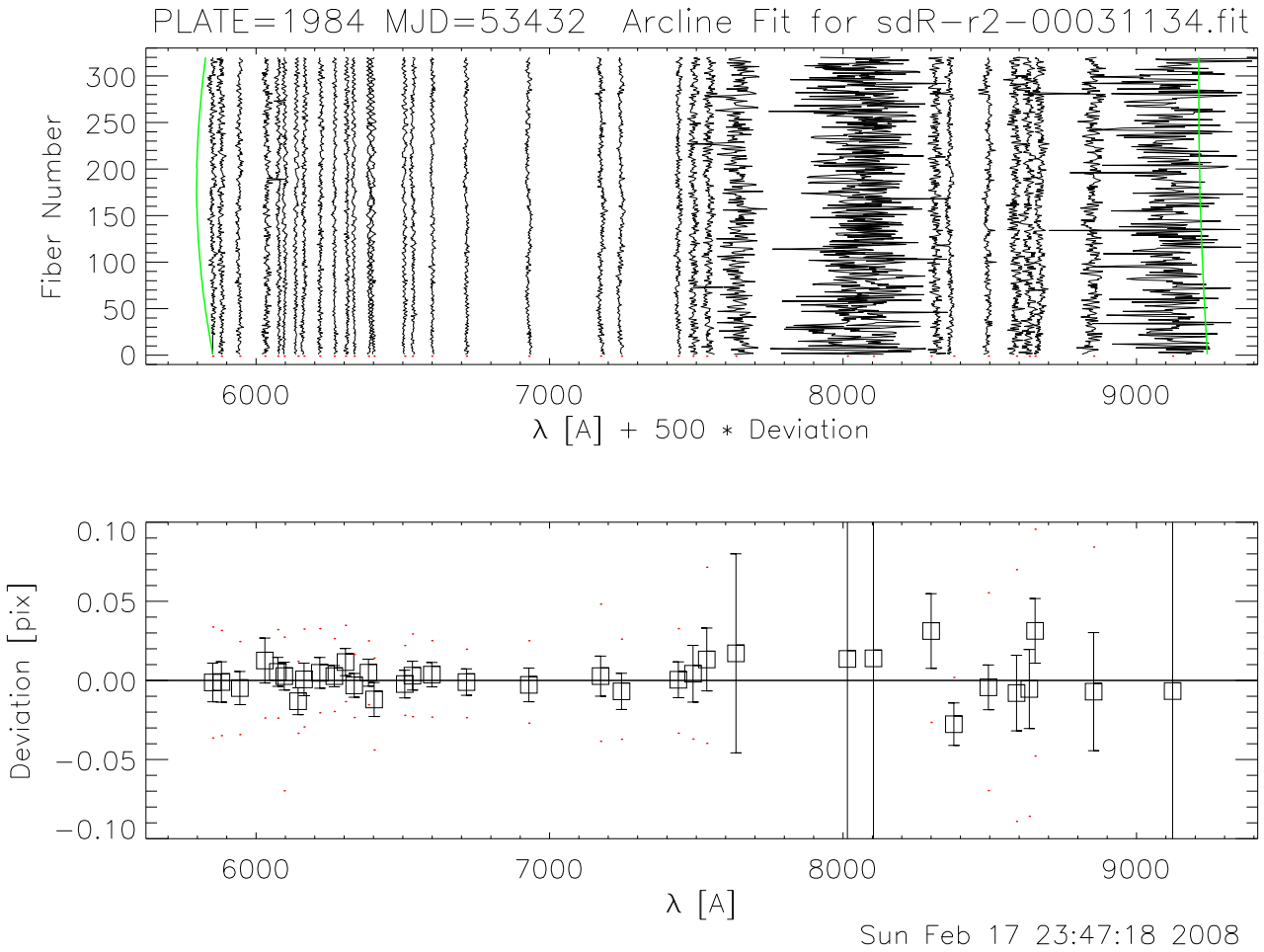

PLATE=1984 MJD=53432 sdR-r1-00031135.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.12 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

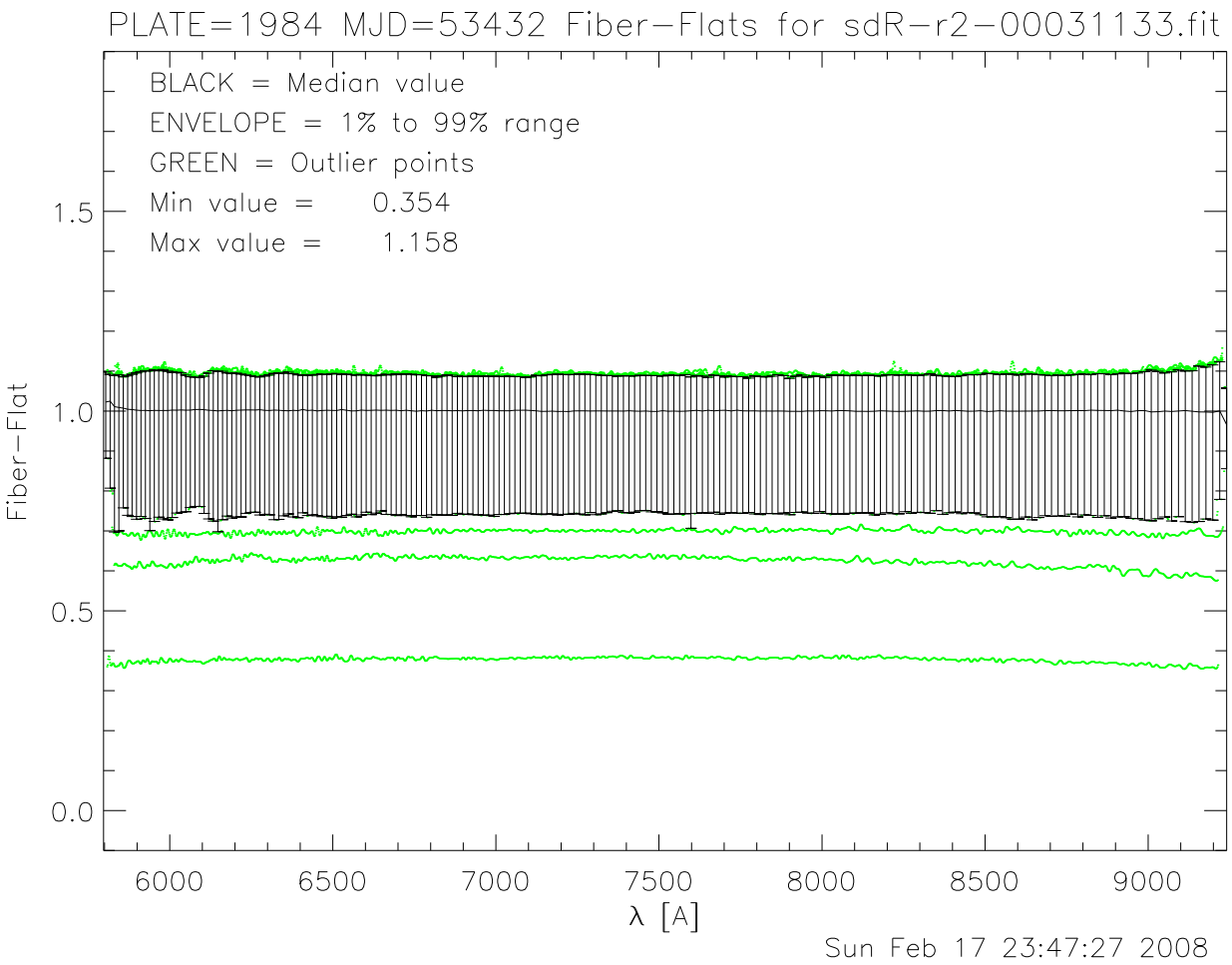

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

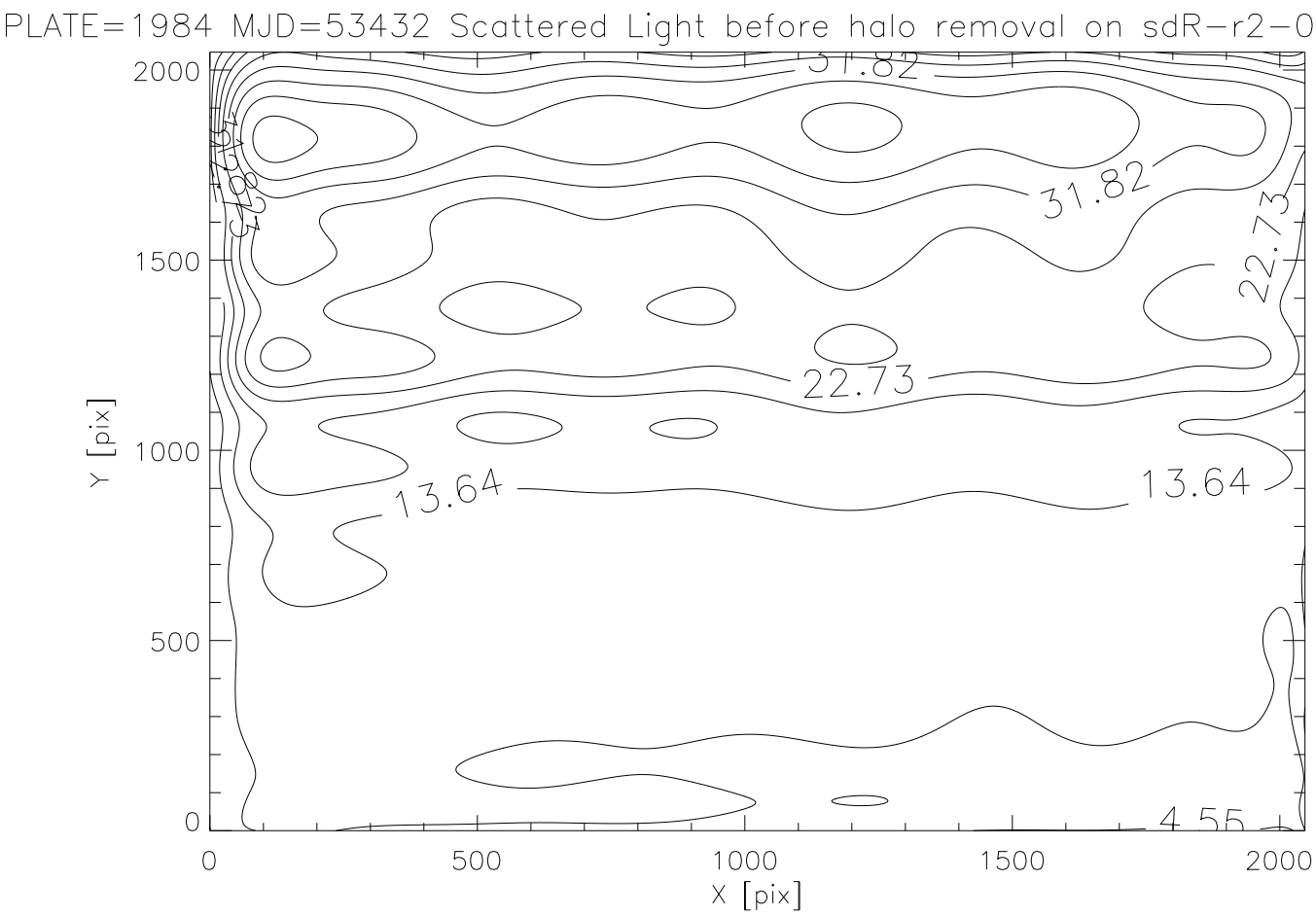

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

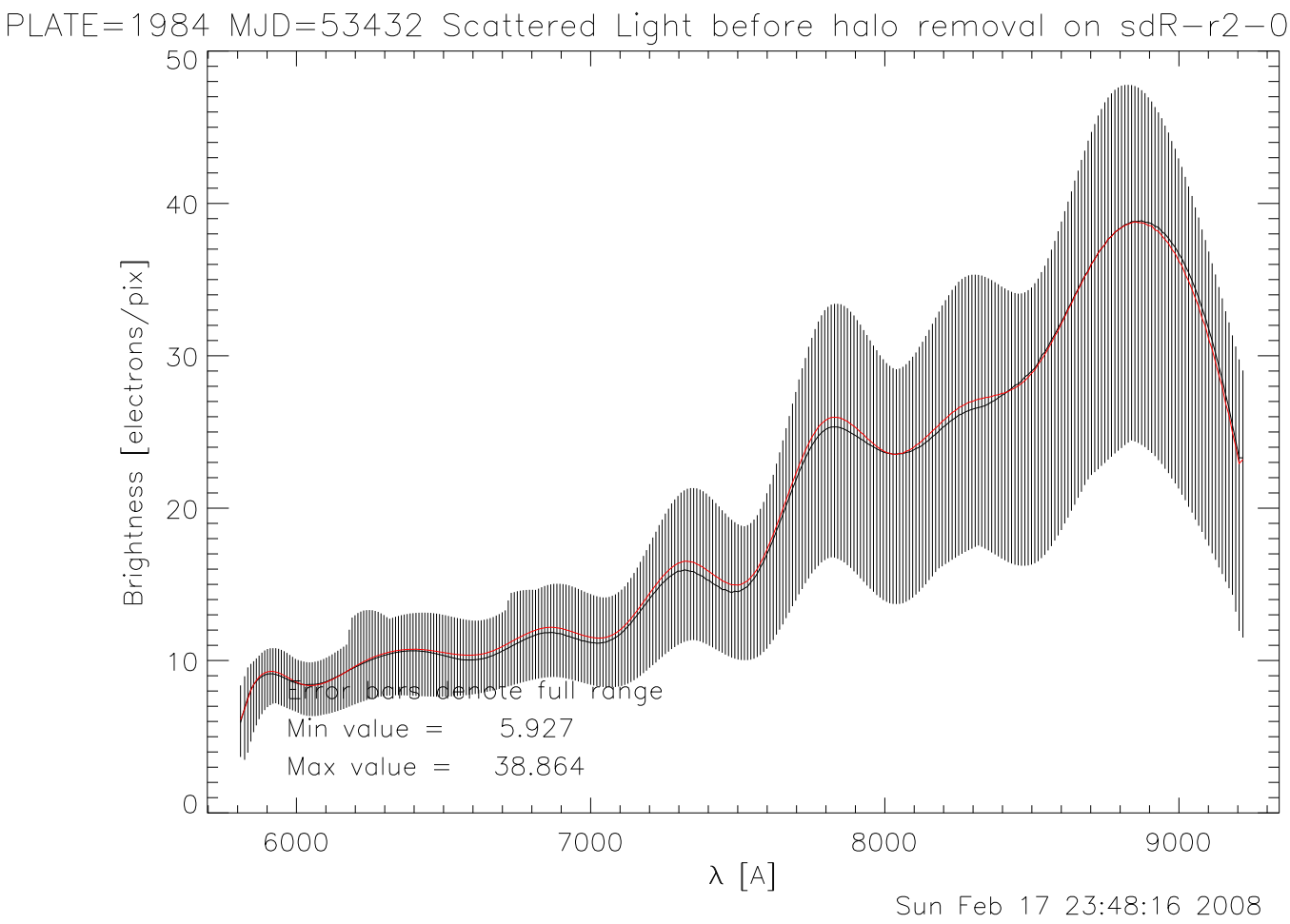

PLATE=1984 MJD=53432 flat extraction chi^2 for sdR-r2-00031133.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

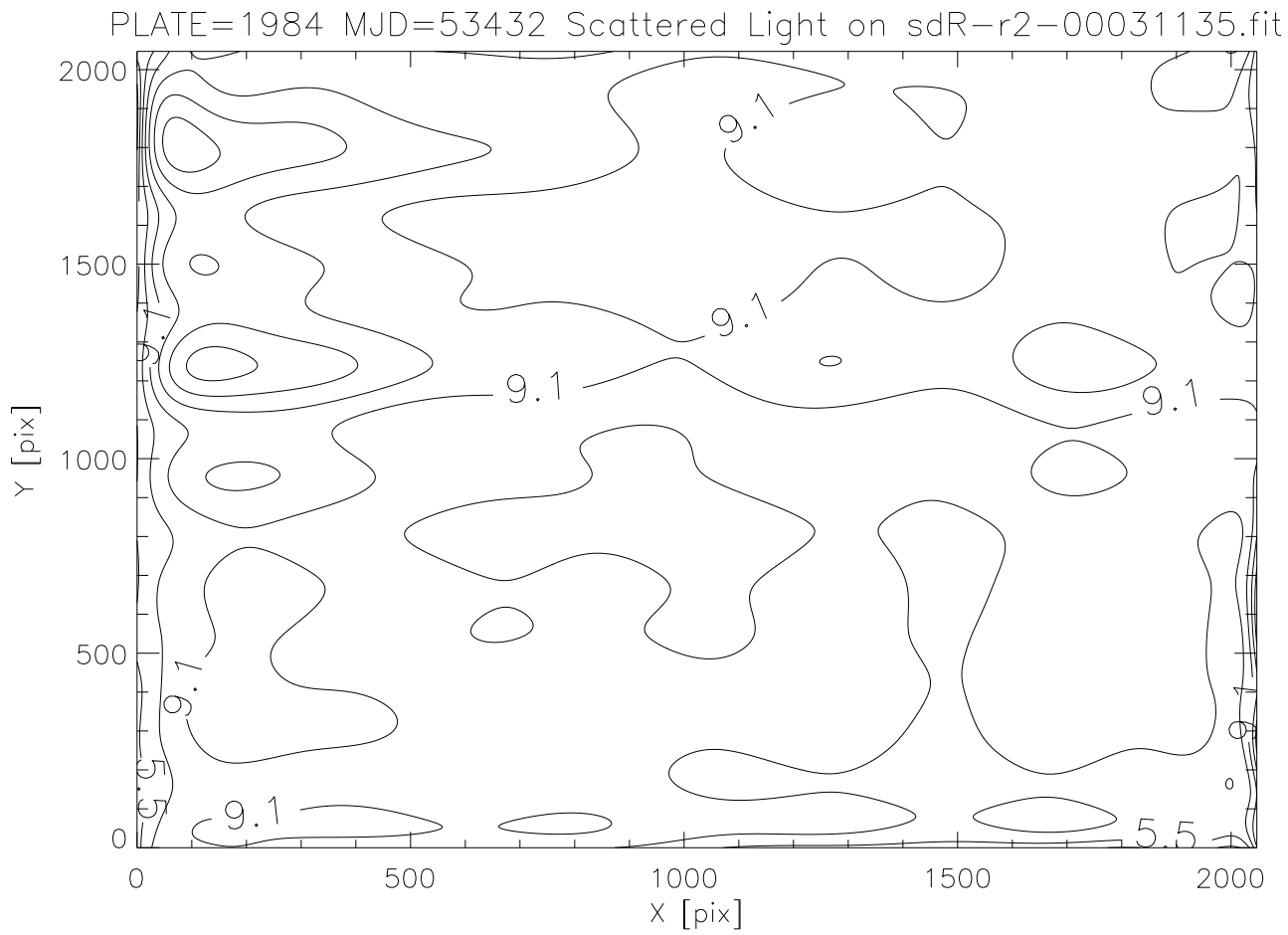

PLATE=1984 MJD=53432 Superflat sdR-r2-00031133.fit
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
6000
6500
7000
7500
8000
8500
9000

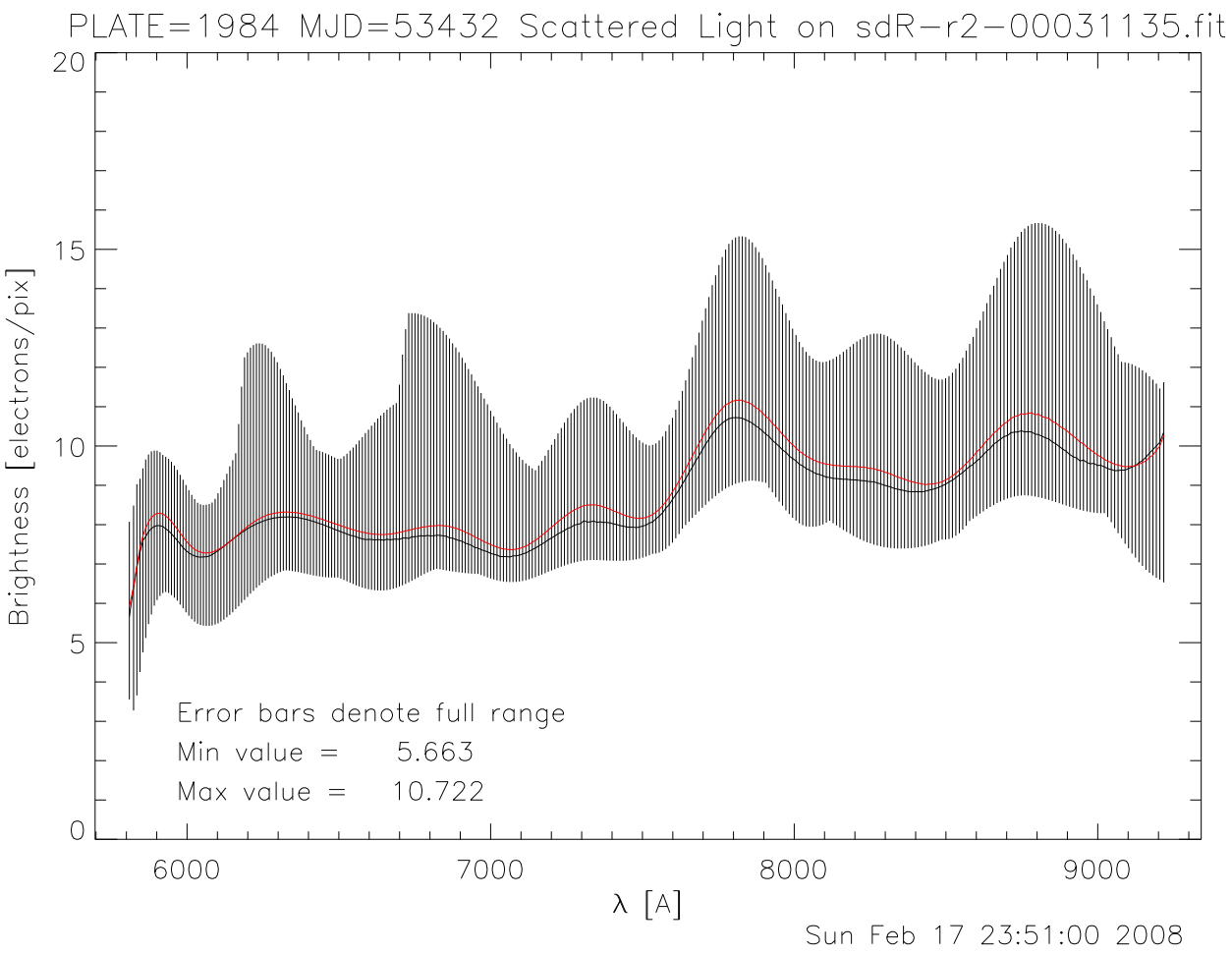

PLATE=1984 MJD=53432 Arcline Fit for sdR-r2-00031134.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Sun Feb 17 23:47:18 2008

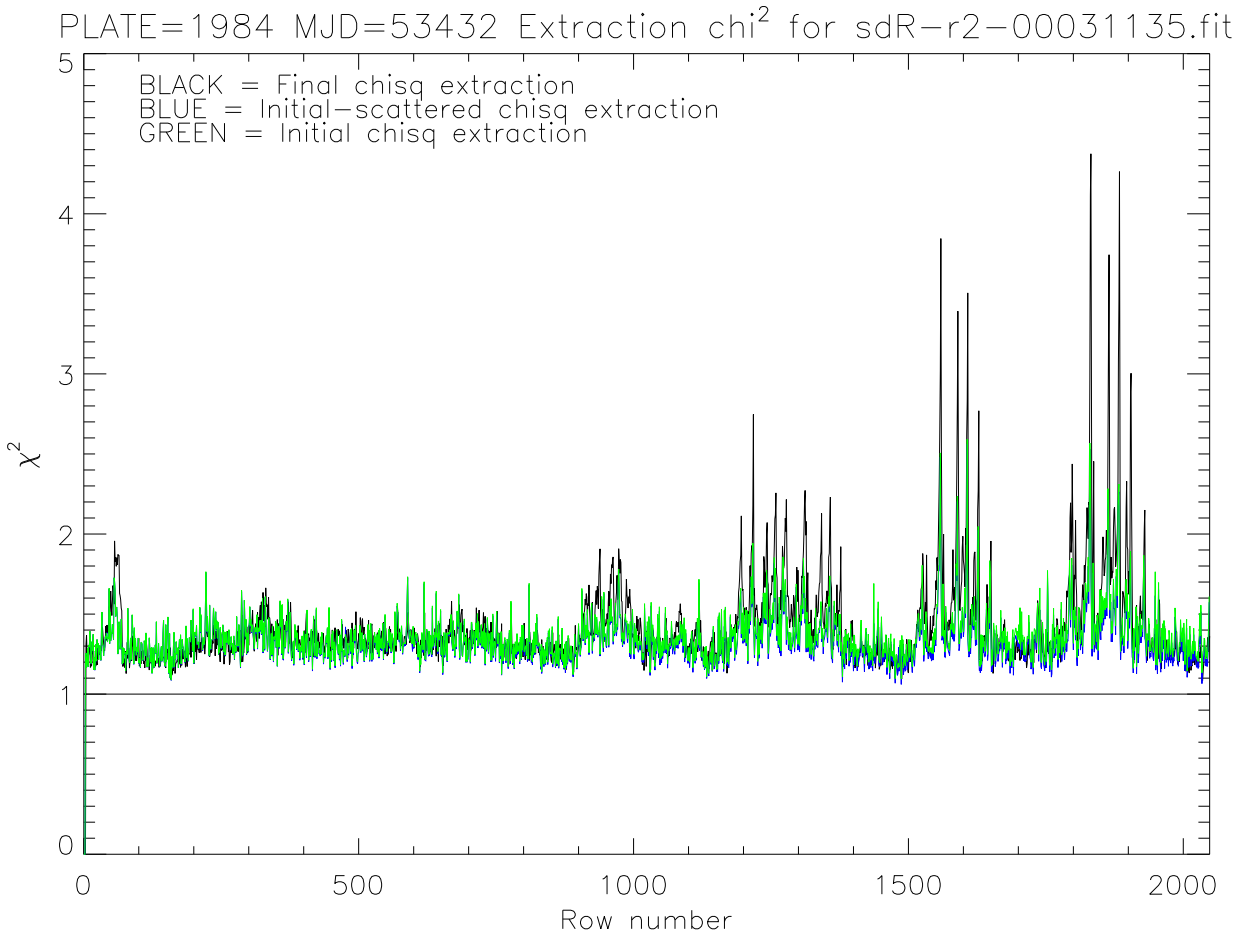

PLATE=1984 MJD=53432 Fiber−Flats for sdR−r2−00031133.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.354
Max value = 1.158
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sun Feb 17 23:47:27 2008

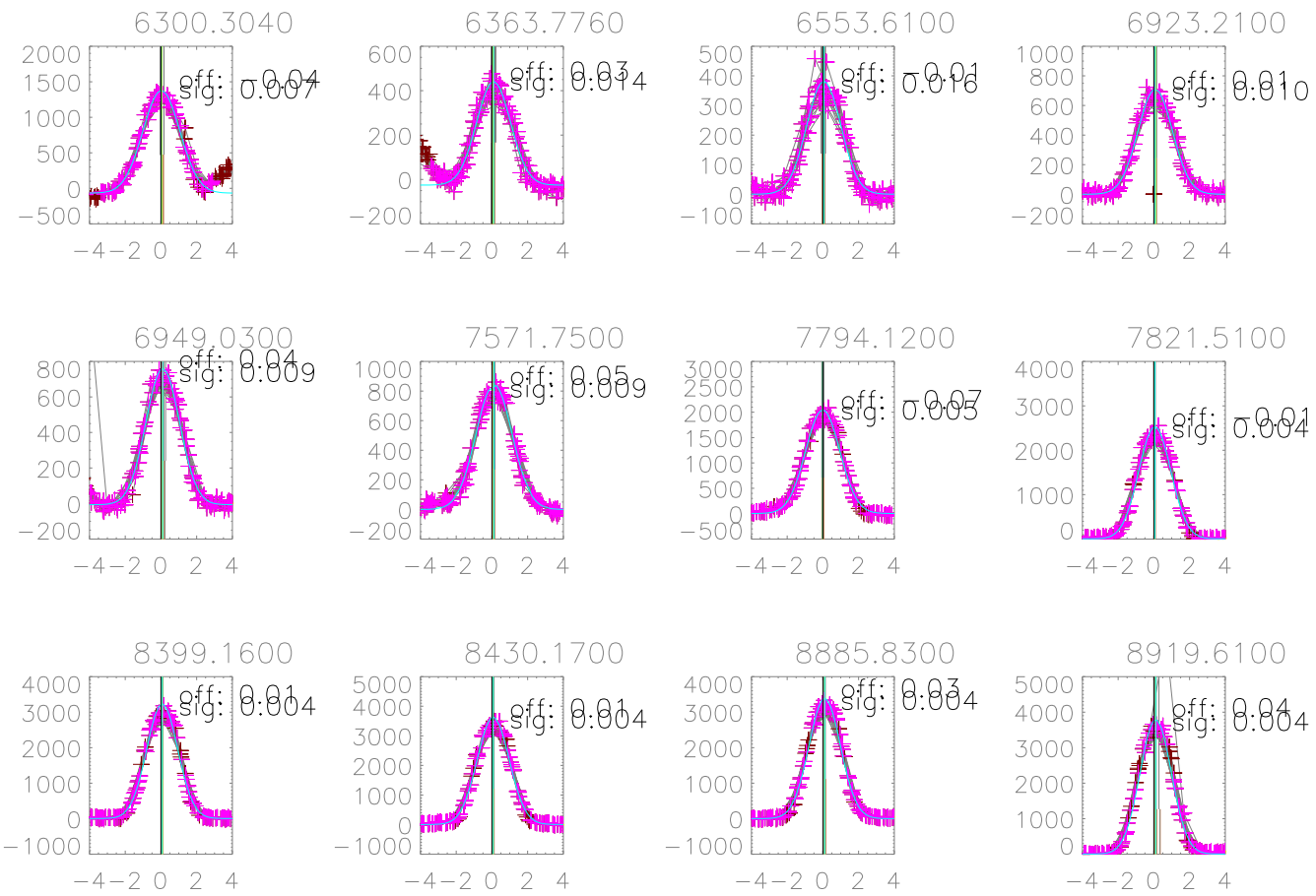

PLATE=1984 MJD=53432 Scattered Light before halo removal on sdR-r2-00031135.fi
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
31.82
31.82
22.73
22.73
13.64
13.64
4.55

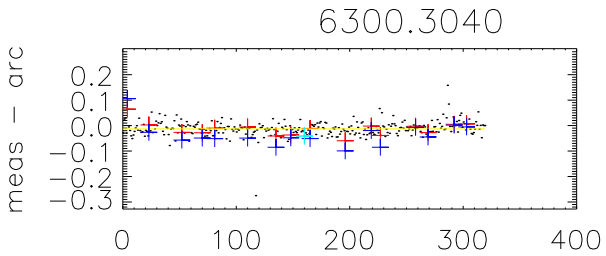

PLATE=1984 MJD=53432 Scattered Light before halo removal on sdR-r2-00031135.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.927
Max value = 38.864
Sun Feb 17 23:48:16 2008

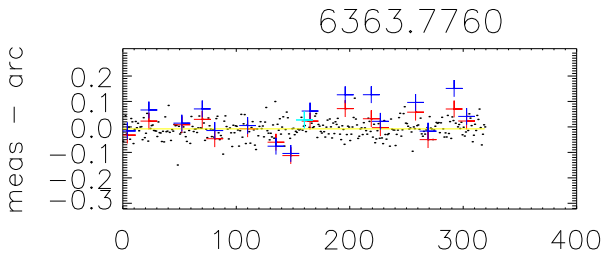

PLATE=1984 MJD=53432 Scattered Light on sdR-r2-00031135.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
9.1
5.5

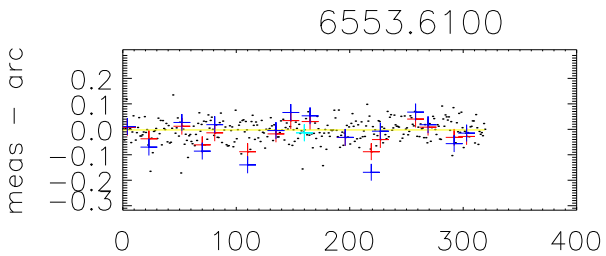

PLATE=1984 MJD=53432 Scattered Light on sdR-r2-00031135.fit
Brightness [electrons/pix]
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 5.663
Max value = 10.722
Sun Feb 17 23:51:00 2008

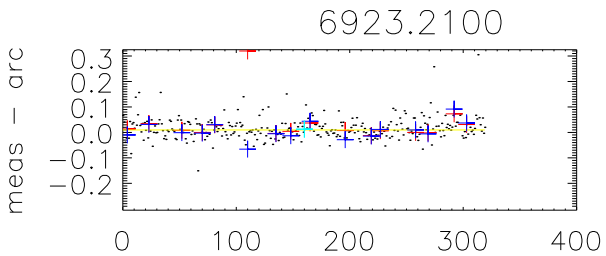

PLATE=1984 MJD=53432 Extraction chi^2 for sdR−r2−00031135.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

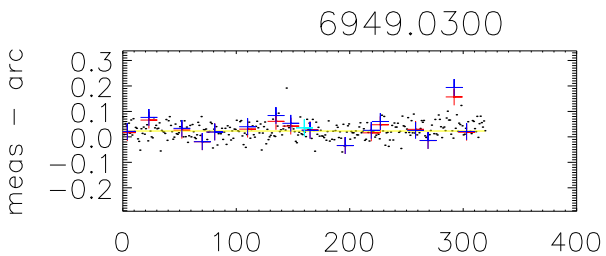

6300.3040
off: -0.04
sig: 0.007
6363.7760
off: 0.03
sig: 0.014
6553.6100
off: -0.01
sig: 0.016
6923.2100
off: 0.01
sig: 0.010
6949.0300
off: 0.04
sig: 0.009
7571.7500
off: 0.05
sig: 0.009
7794.1200
off: -0.07
sig: 0.005
7821.5100
off: -0.01
sig: 0.004
8399.1600
off: 0.01
sig: 0.004
8430.1700
off: 0.01
sig: 0.004
8885.8300
off: 0.03
sig: 0.004
8919.6100
off: 0.04
sig: 0.004

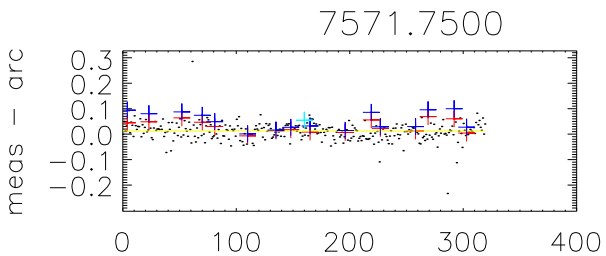

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

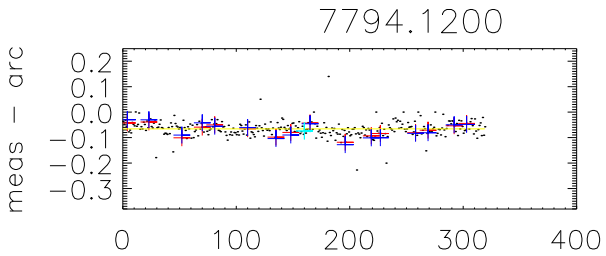

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

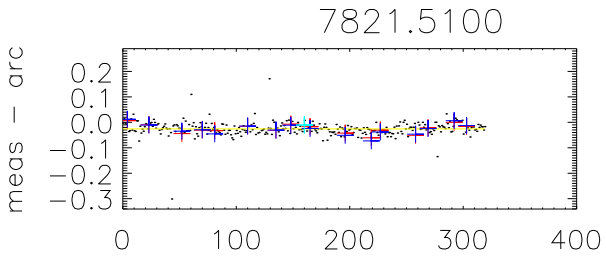

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

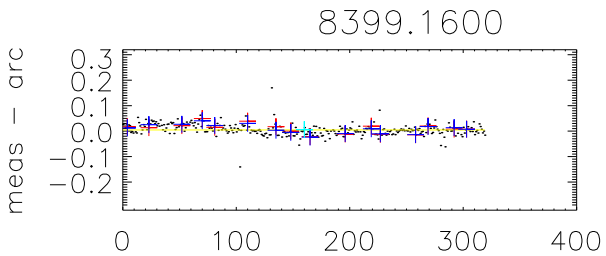

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

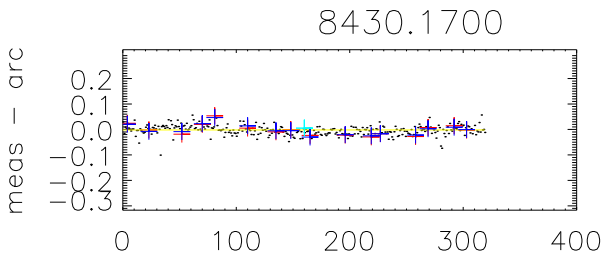

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

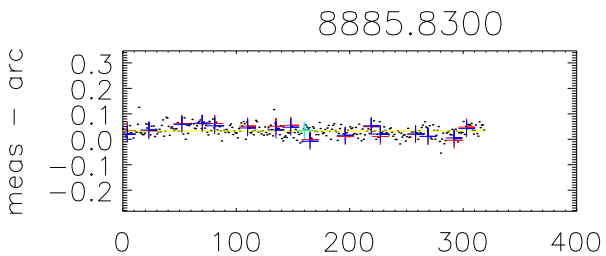

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

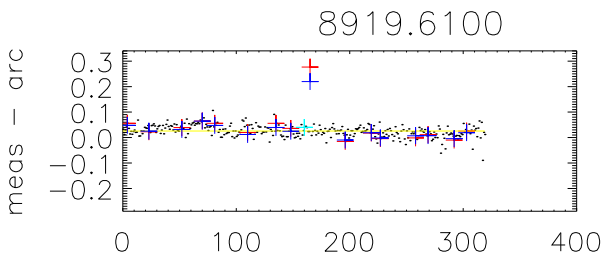

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

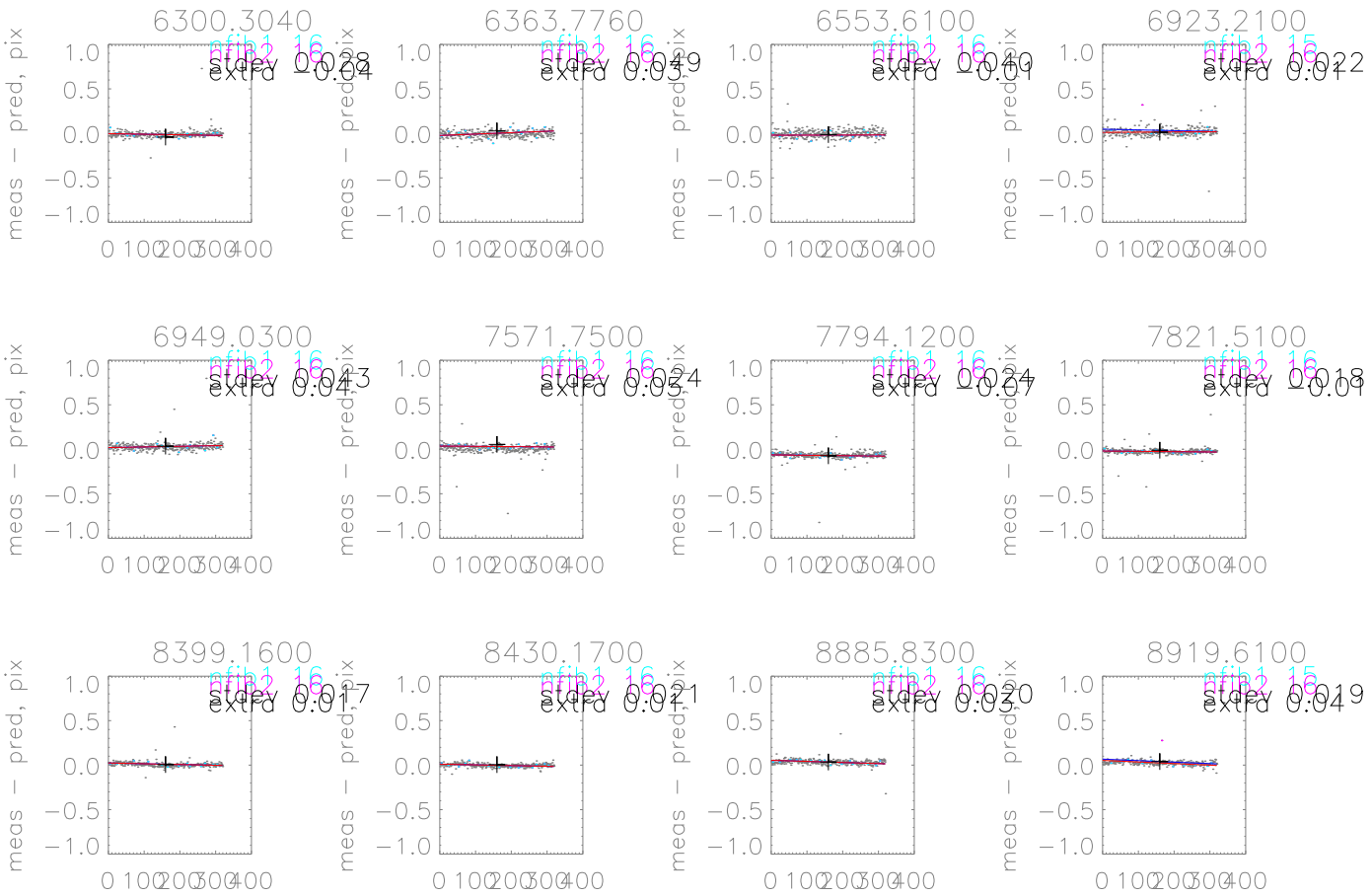

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

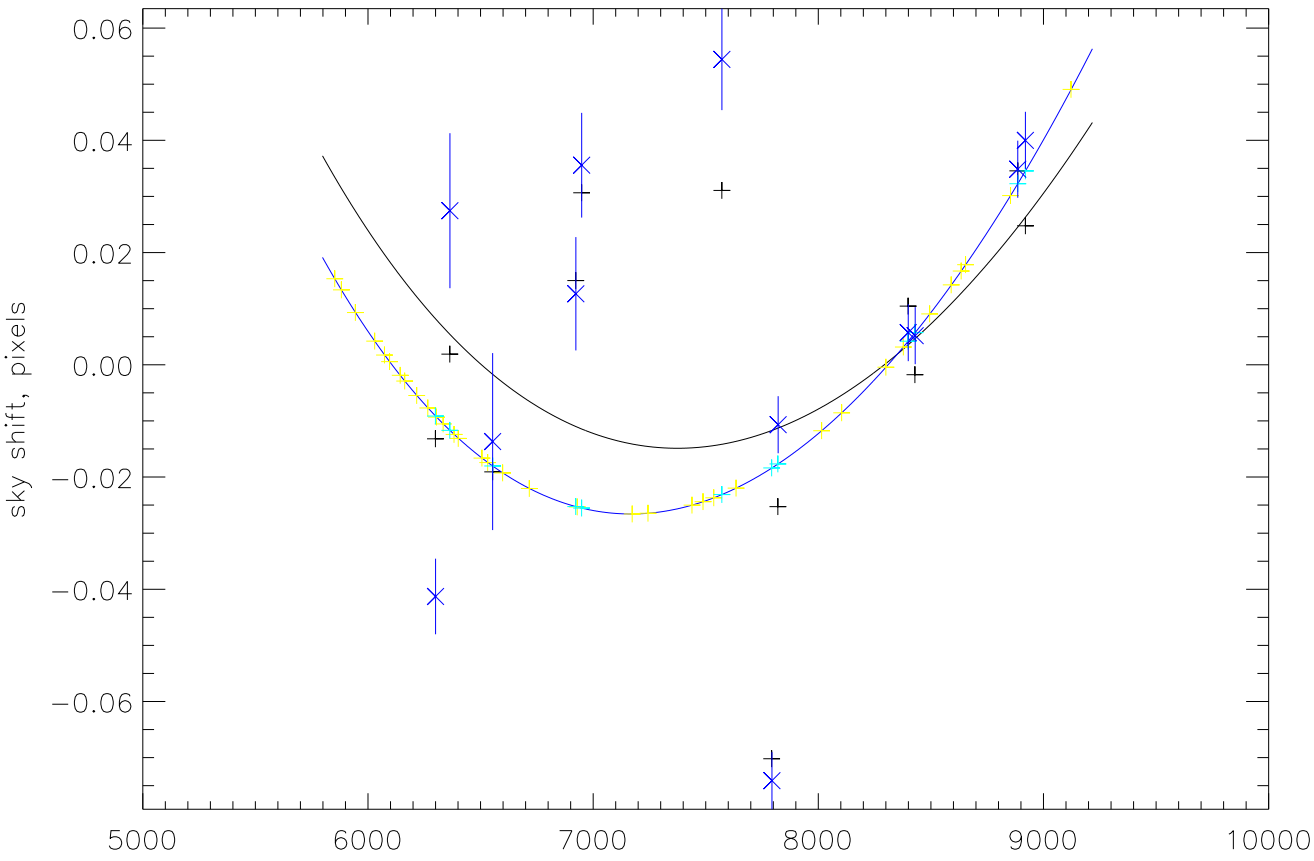

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

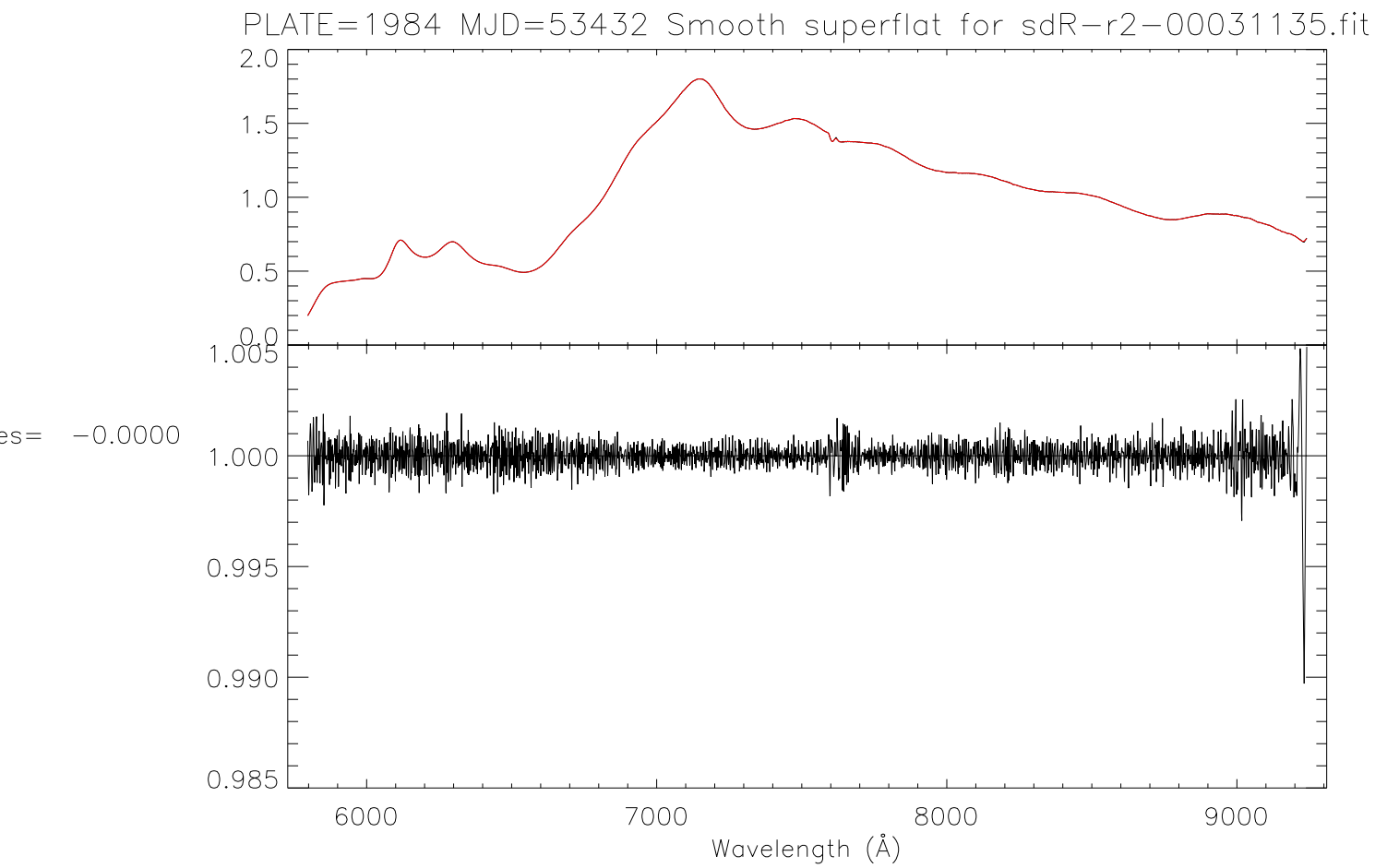

8430.1700
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

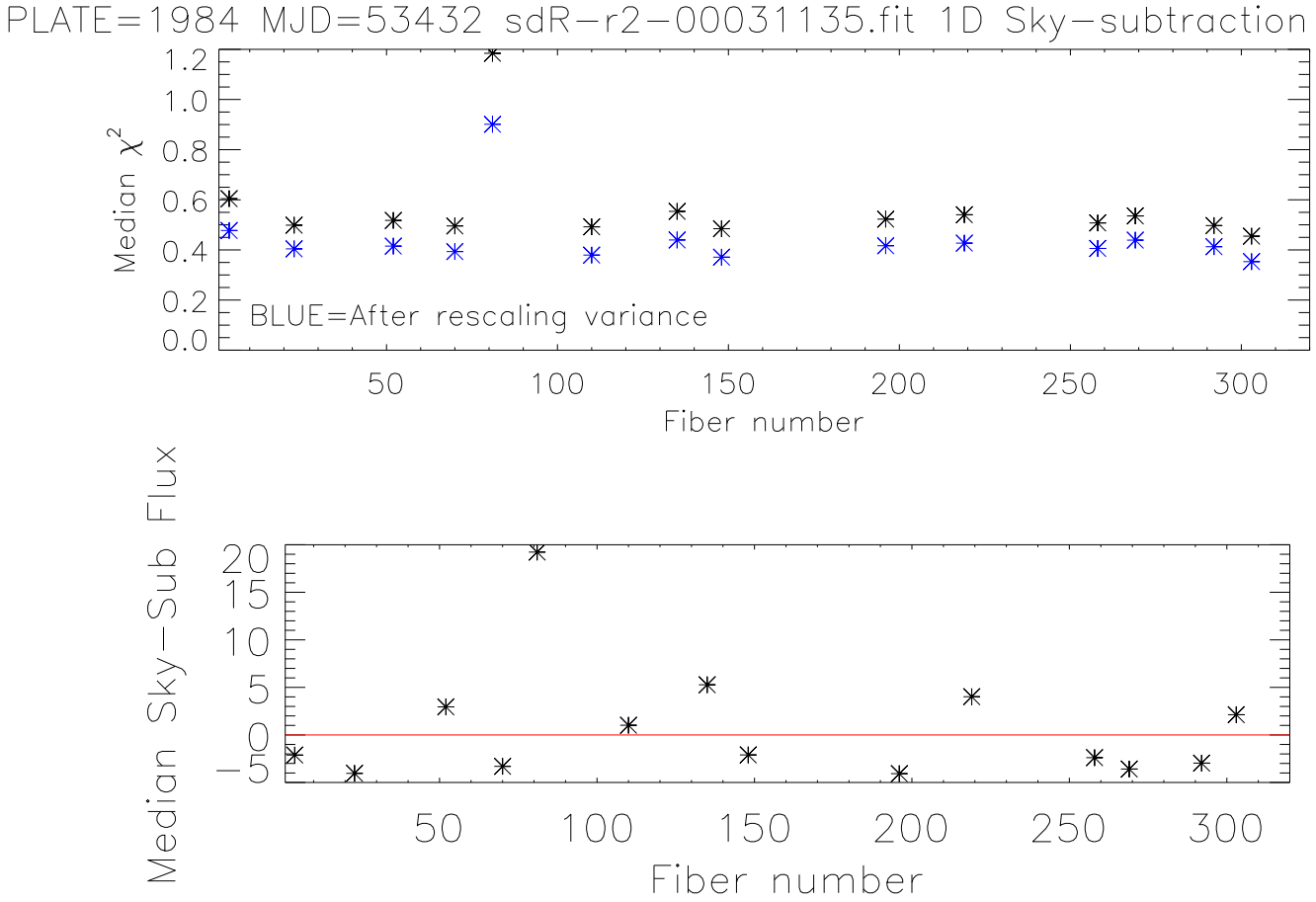

8885.8300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

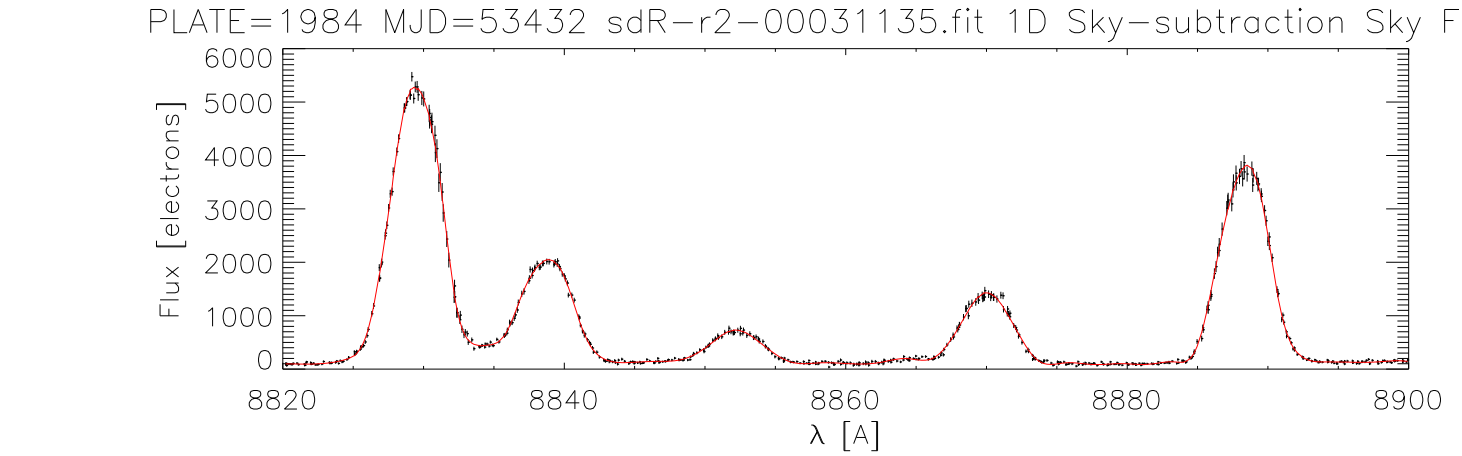

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

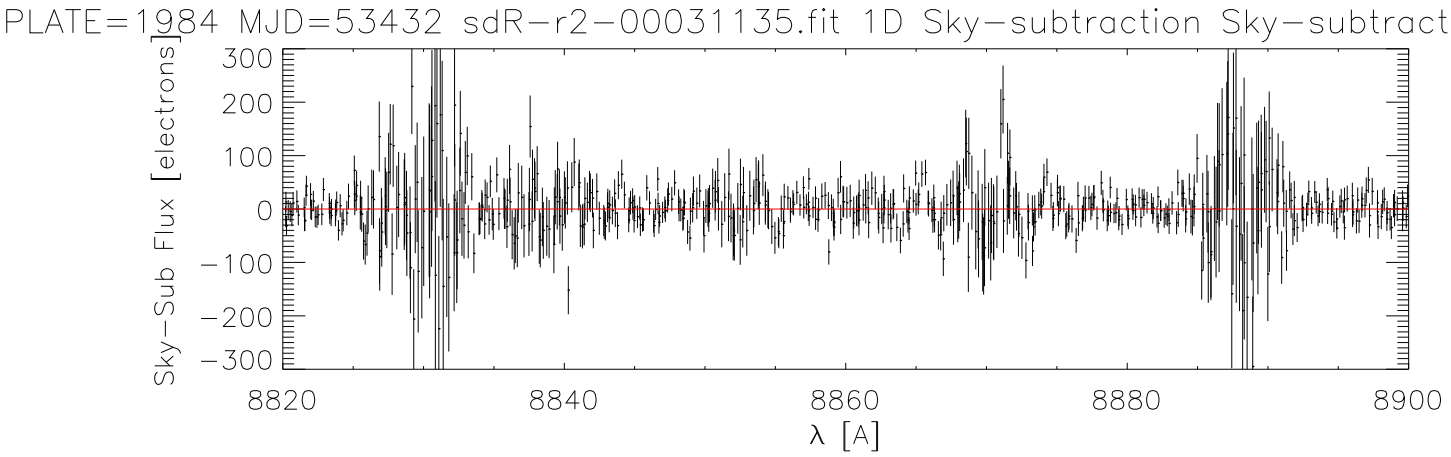

6300.3040
stdev 0.028
extra −0.04
6363.7760
stdev 0.049
extra 0.03
6553.6100
stdev 0.040
extra −0.01
6923.2100
stdev 0.022
extra 0.01
6949.0300
stdev 0.043
extra 0.04
7571.7500
stdev 0.024
extra 0.03
7794.1200
stdev 0.034
extra −0.07
7821.5100
stdev 0.018
extra −0.01
8399.1600
stdev 0.017
extra 0.01
8430.1700
stdev 0.021
extra 0.01
8885.8300
stdev 0.020
extra 0.03
8919.6100
stdev 0.019
extra 0.04
meas − pred, pix
mfb32 16
mfb32 15

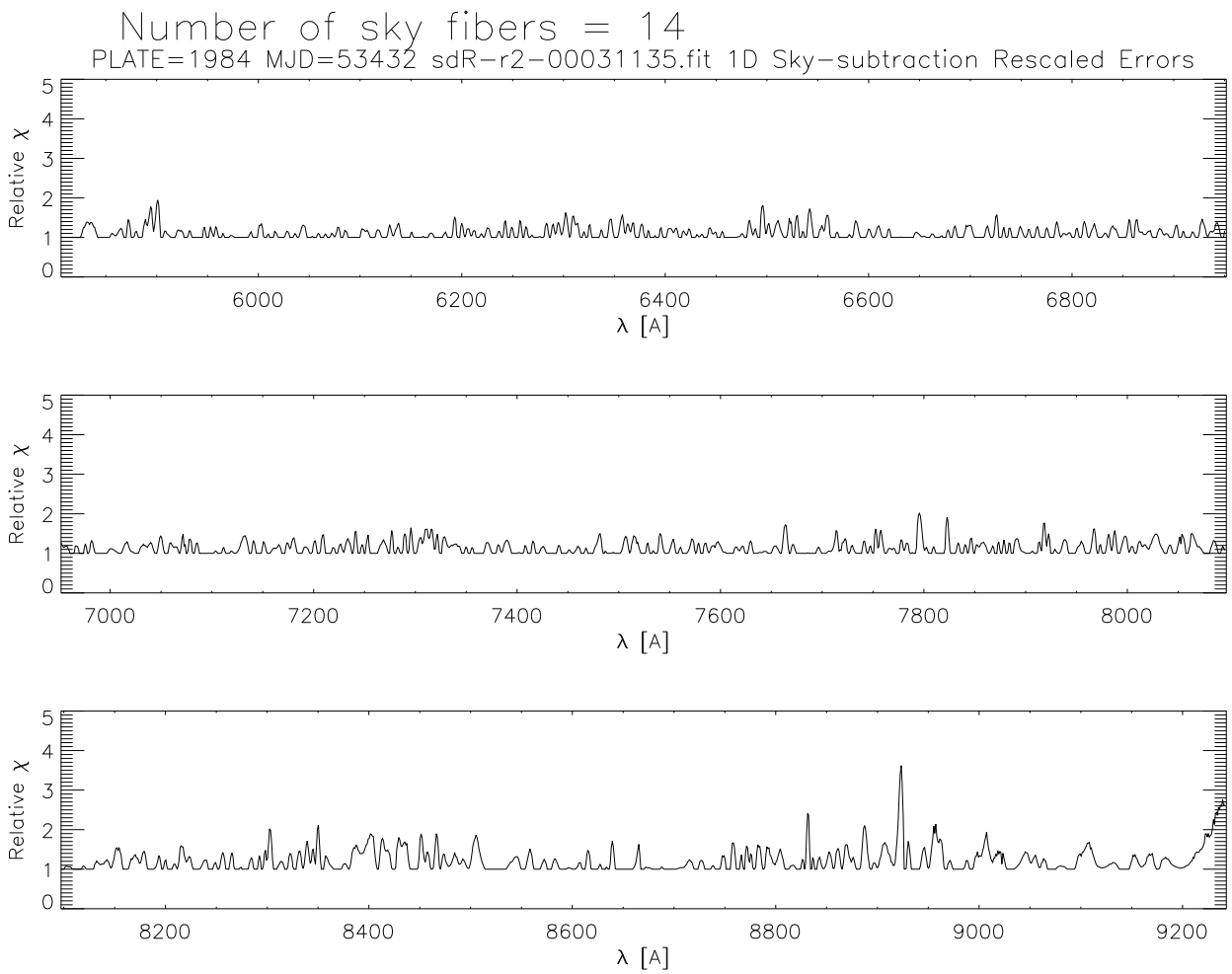

0.06
0.04
0.02
0.00
−0.02
−0.04
−0.06
sky shift, pixels
5000
6000
7000
8000
9000
10000

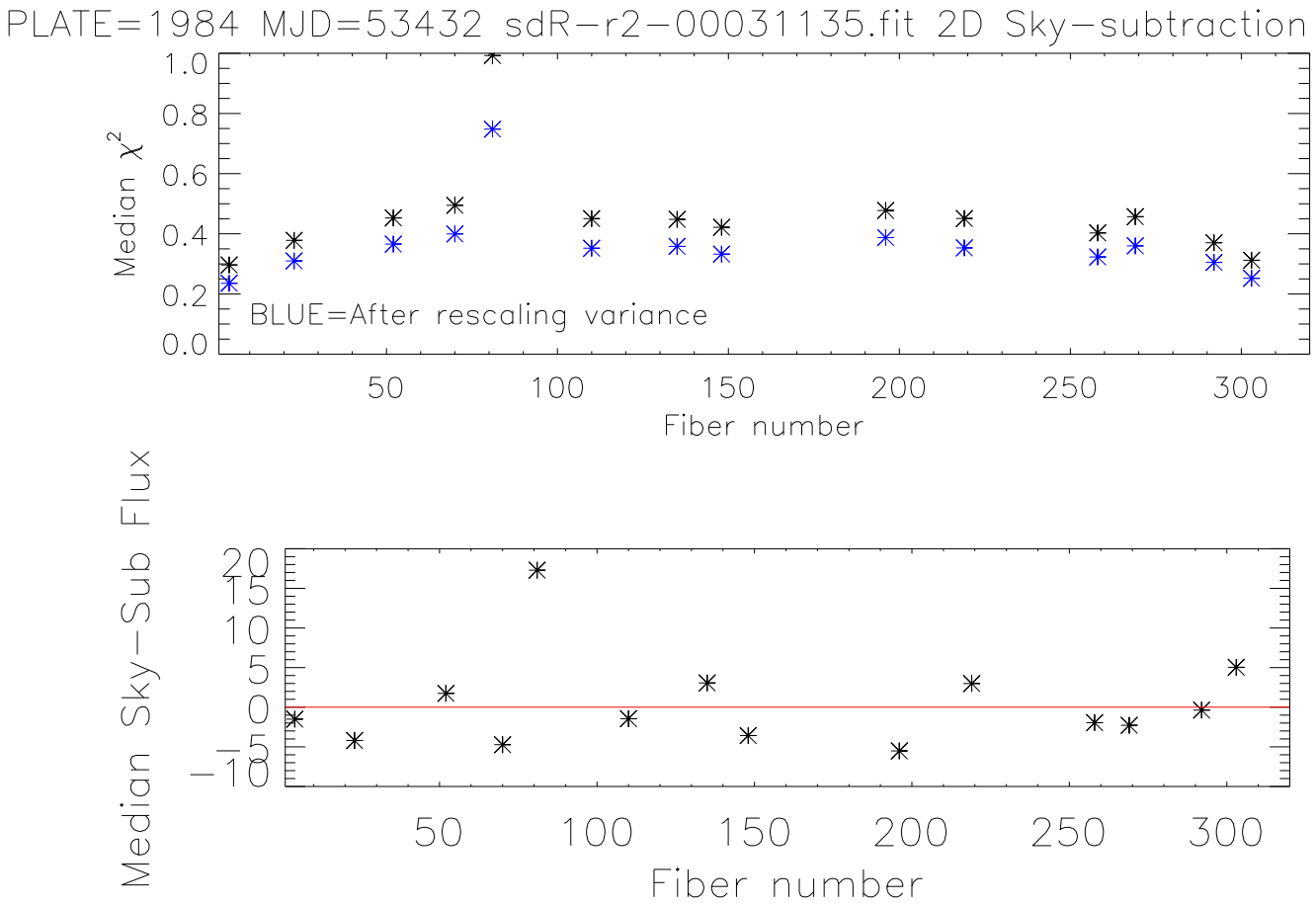

PLATE=1984 MJD=53432 Smooth superflat for sdR-r2-00031135.fit
2.0
1.5
1.0
0.5
0.0
1.005
1.000
0.995
0.990
0.985
es= -0.0000
6000
7000
8000
9000
Wavelength (Å)

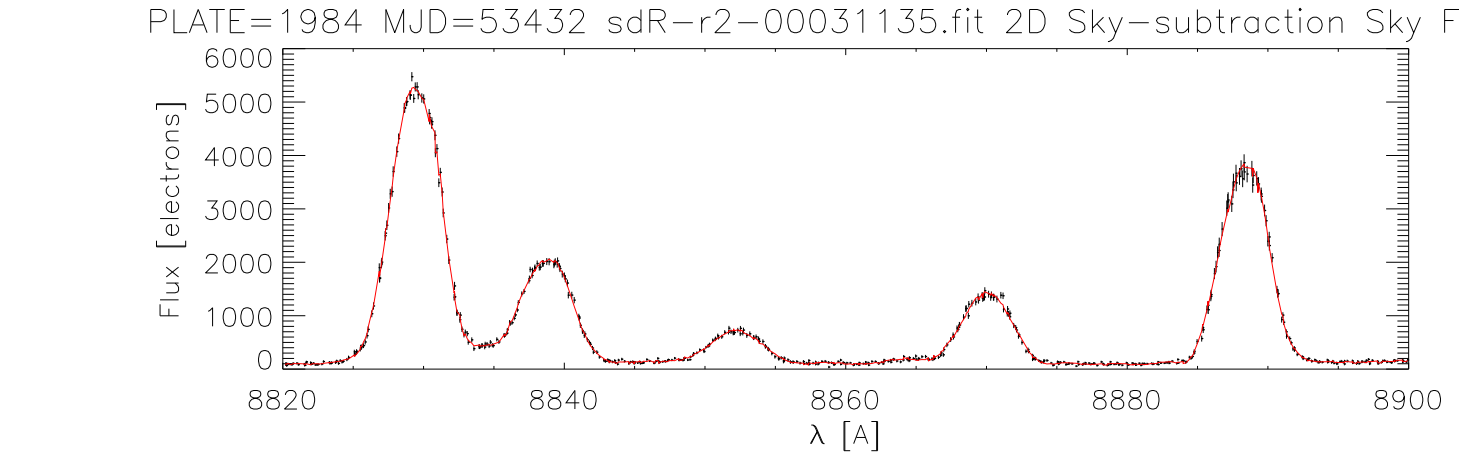

PLATE=1984 MJD=53432 sdR-r2-00031135.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

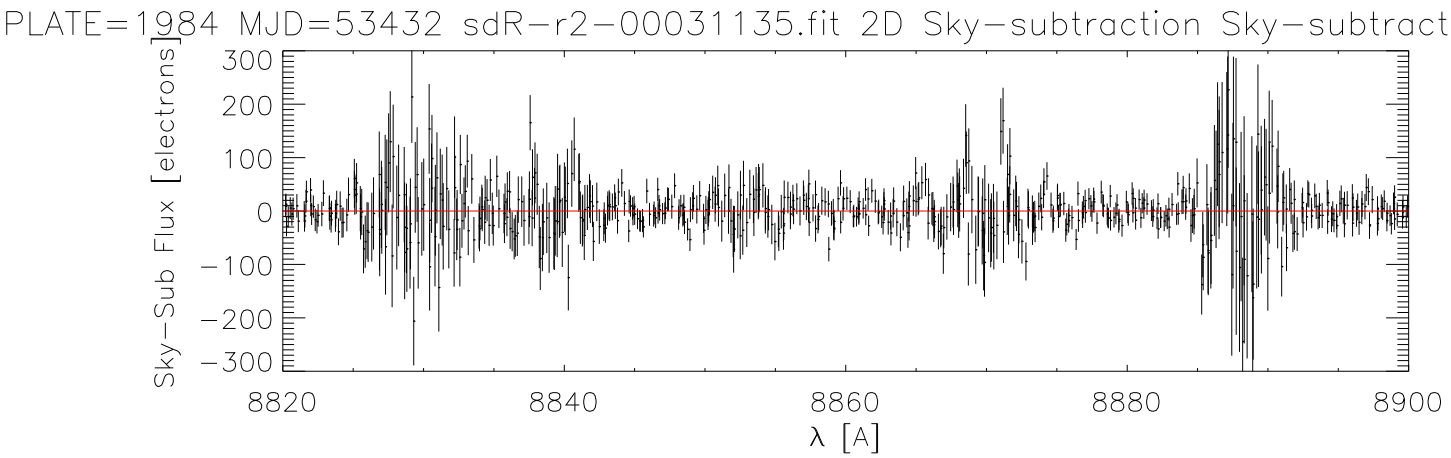

PLATE=1984 MJD=53432 sdR-r2-00031135.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

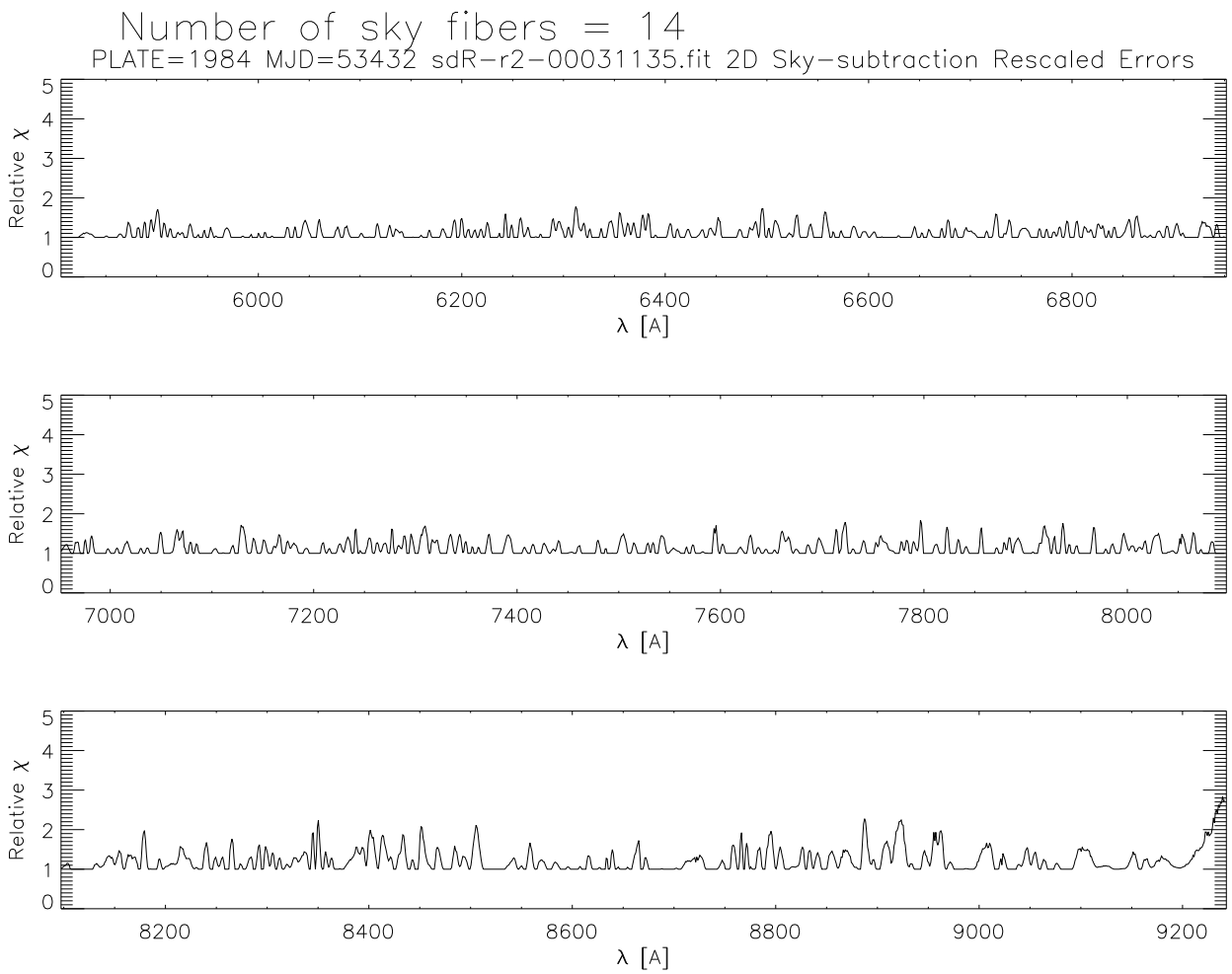

PLATE=1984 MJD=53432 sdR-r2-00031135.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

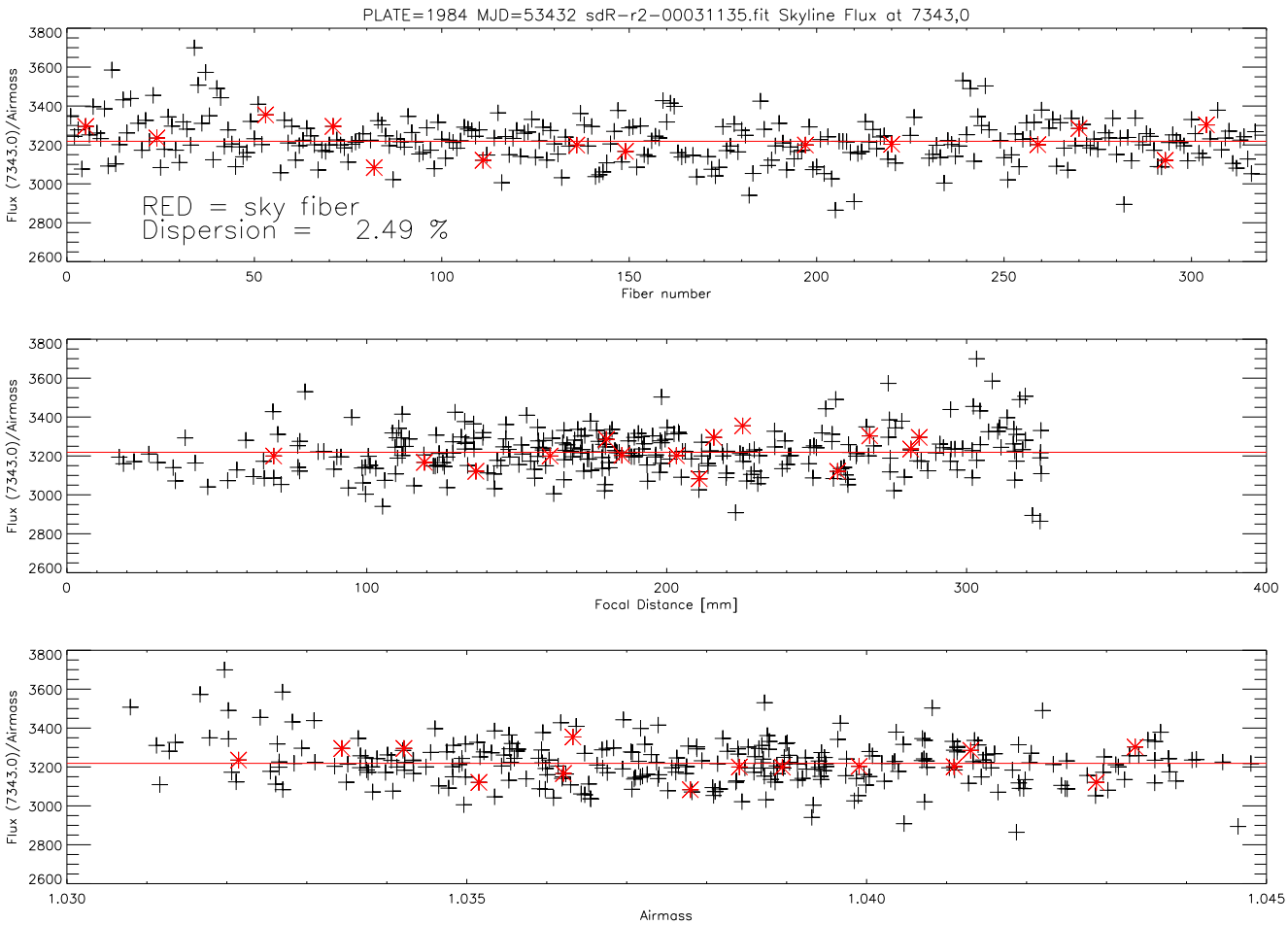

Number of sky fibers = 14
PLATE=1984 MJD=53432 sdR-r2-00031135.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

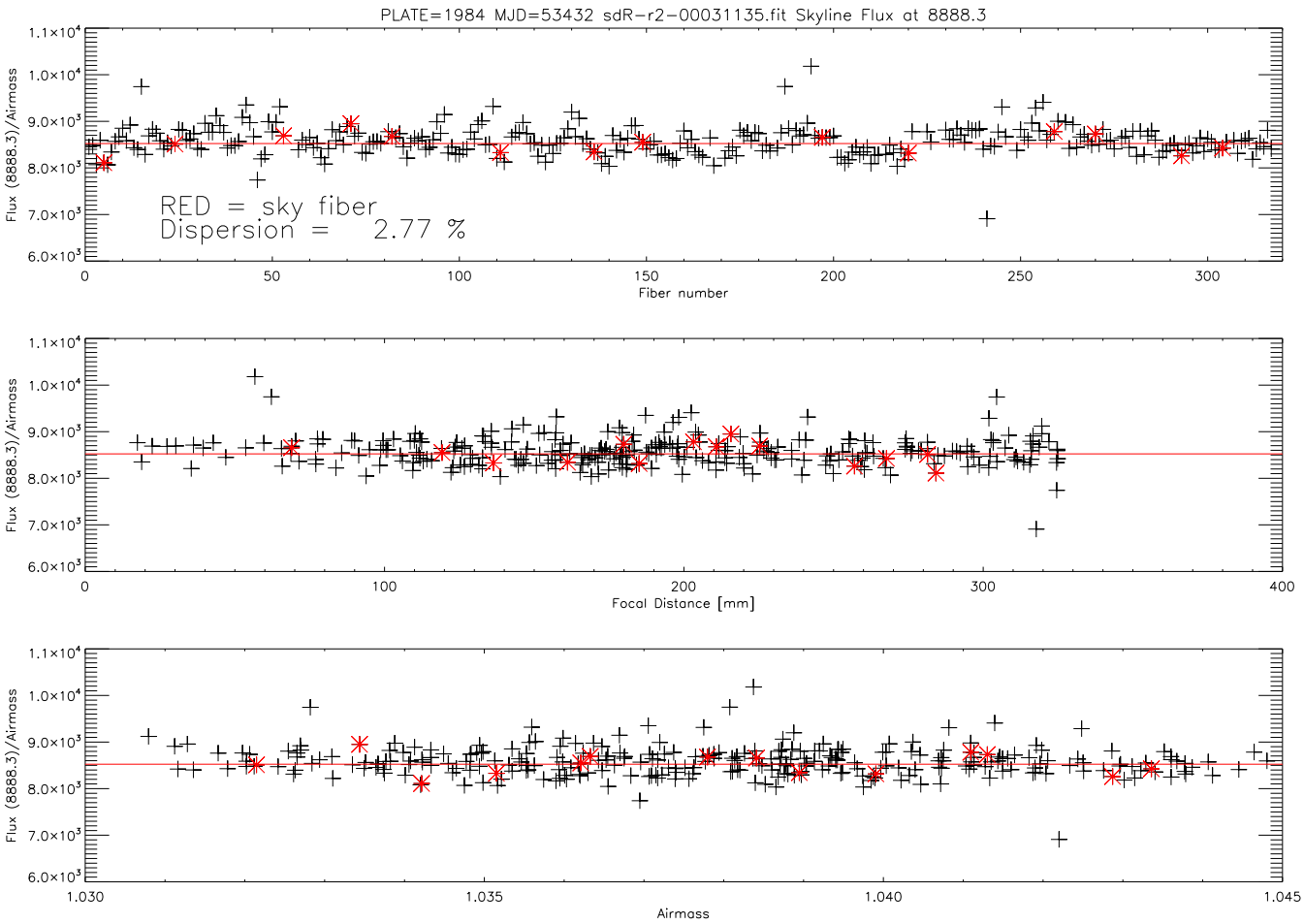

PLATE=1984 MJD=53432 sdR-r2-00031135.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number


PLATE=1984 MJD=53432 sdR-r2-00031135.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]


PLATE=1984 MJD=53432 sdR-r2-00031135.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]


Number of sky fibers = 14
PLATE=1984 MJD=53432 sdR-r2-00031135.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=1984 MJD=53432 sdR-r2-00031135.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.49 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass


PLATE=1984 MJD=53432 sdR-r2-00031135.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.77 %
Fiber number
Focal Distance [mm]
Airmass