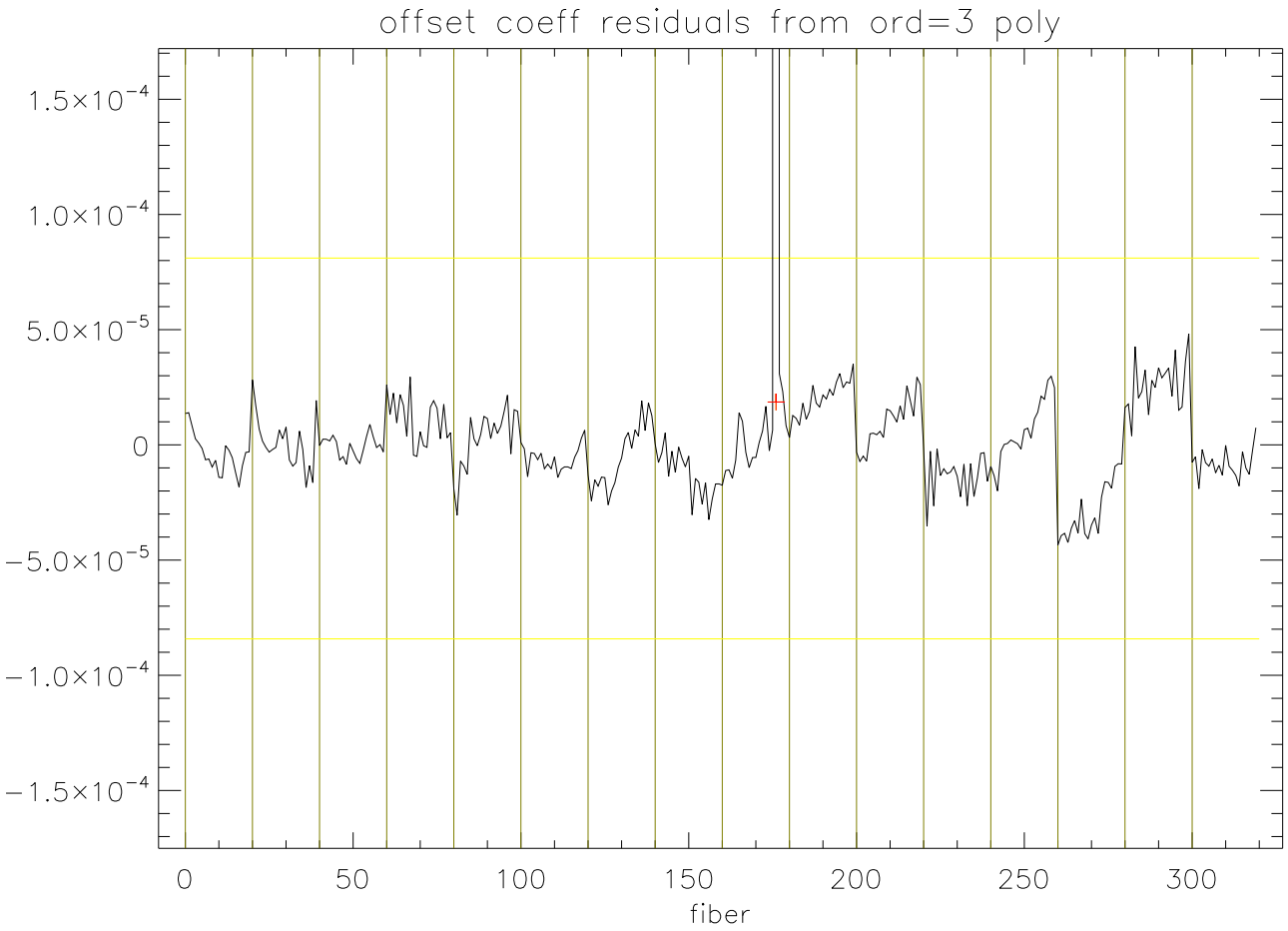
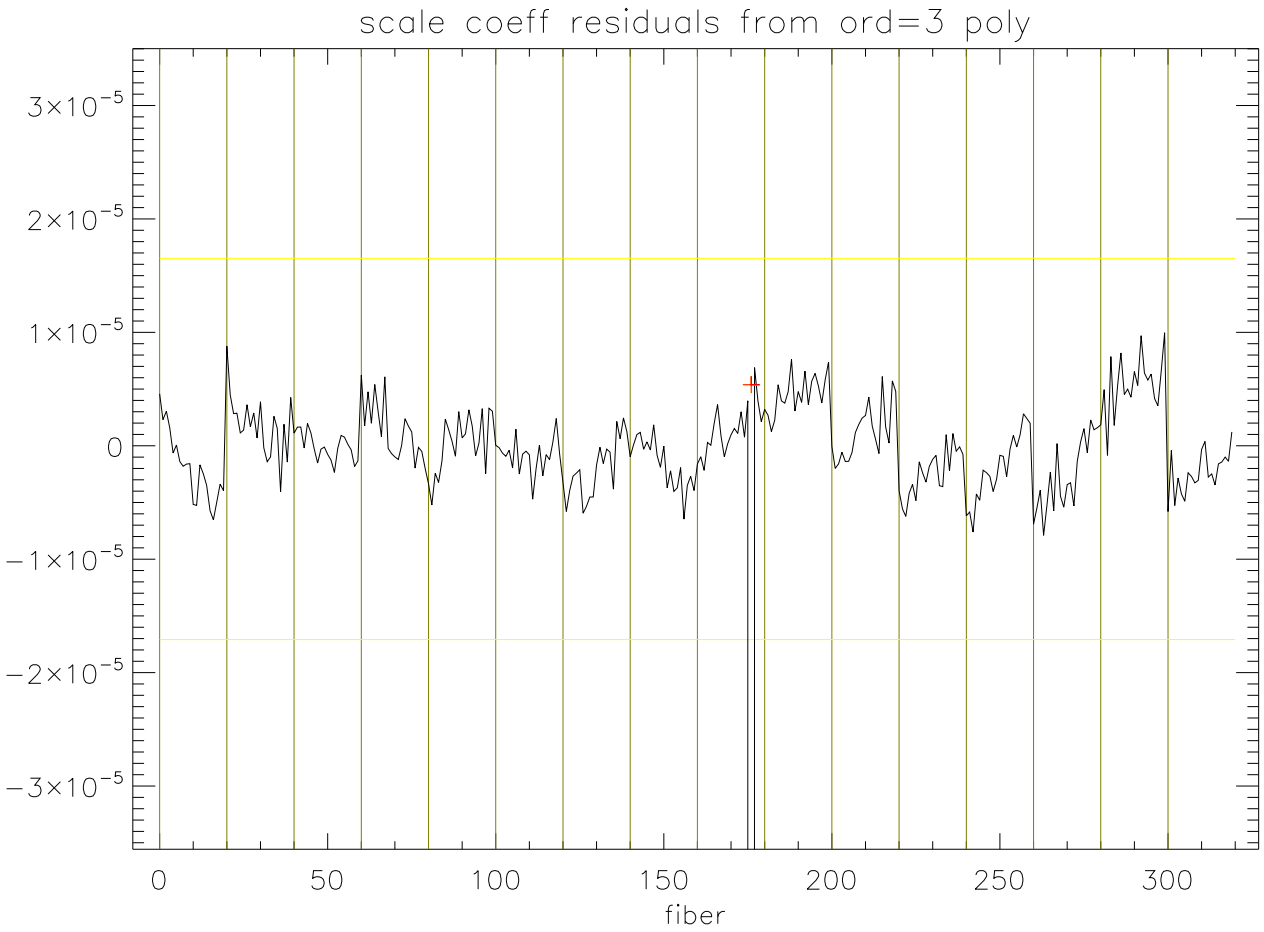
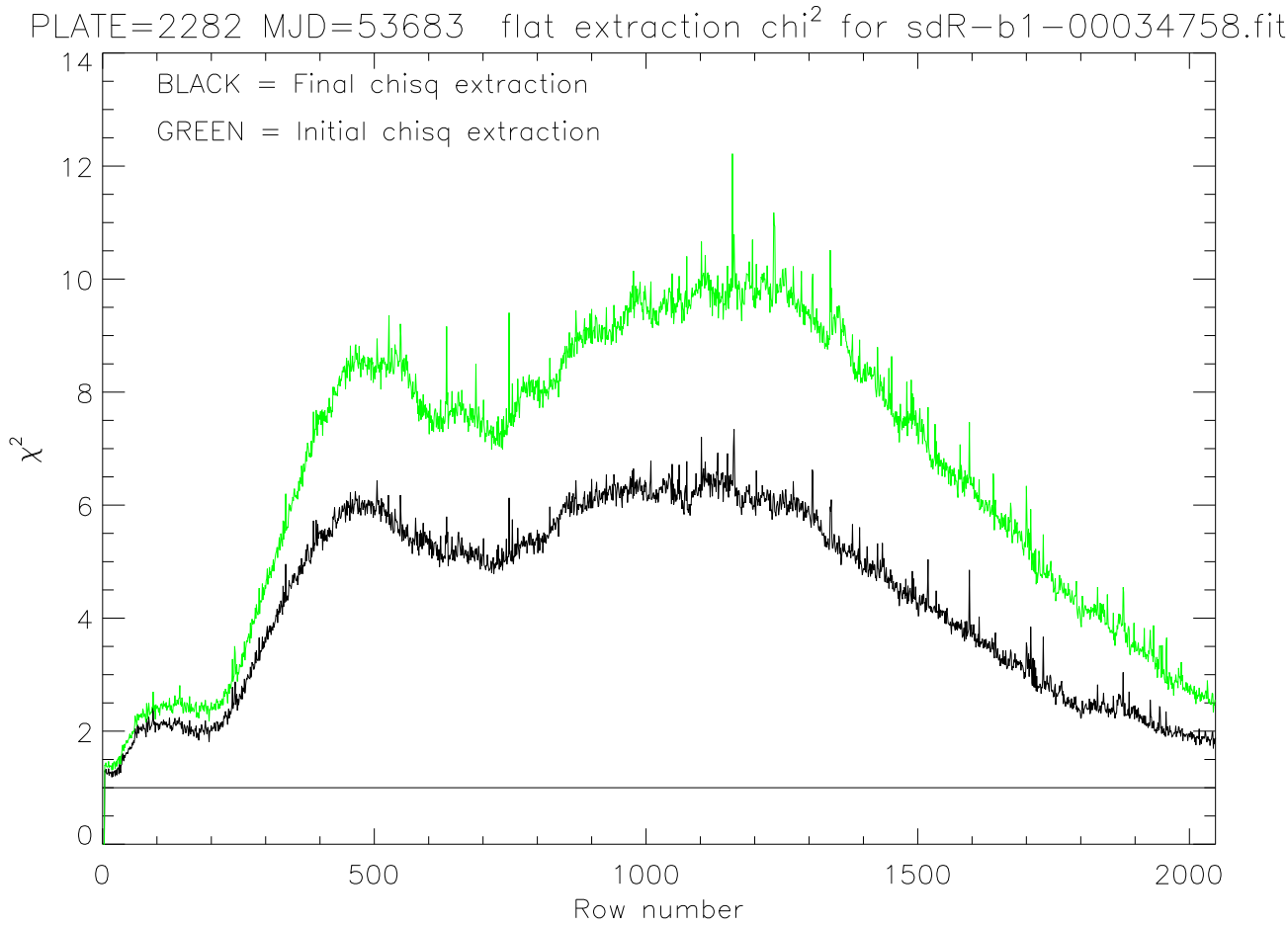
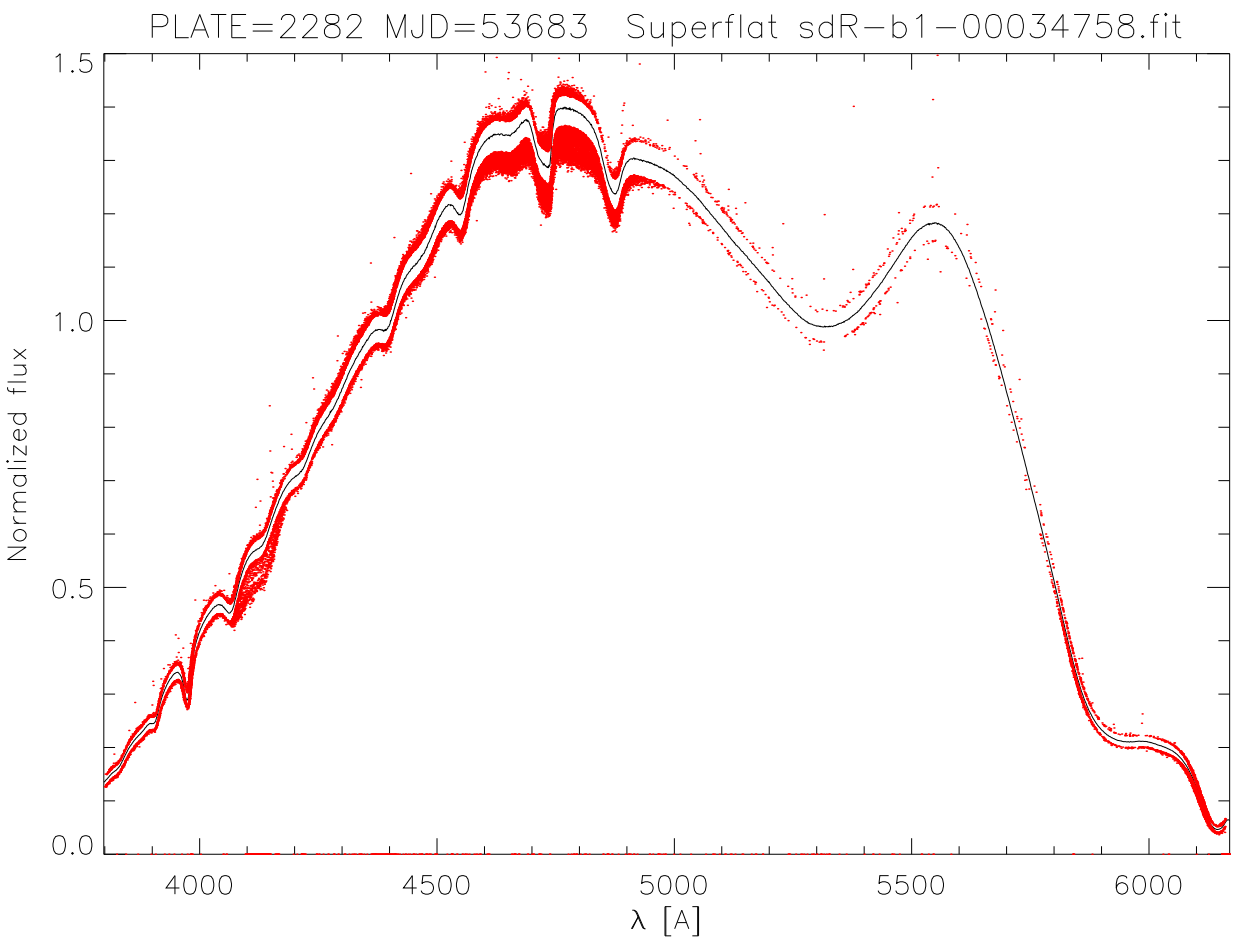
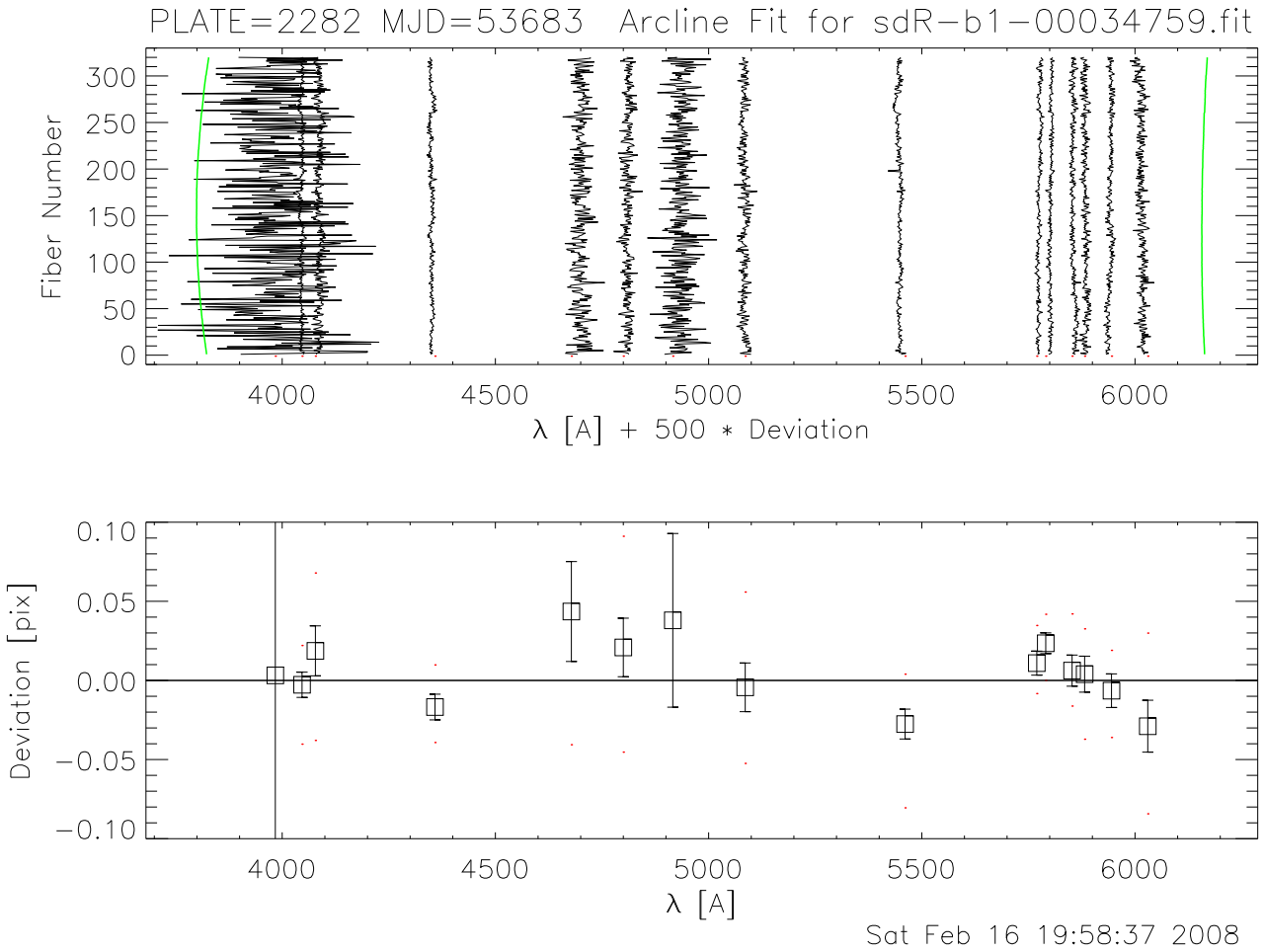
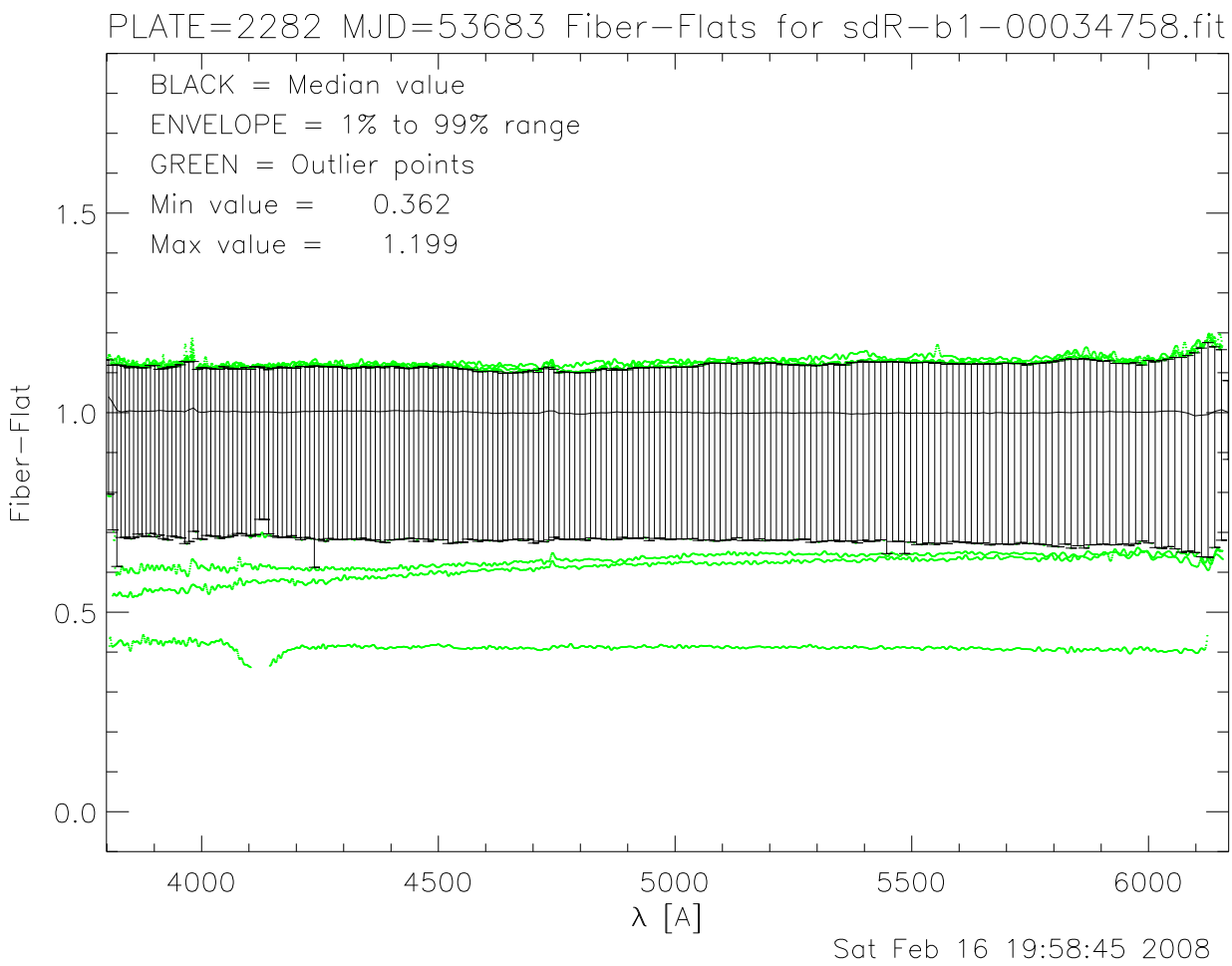

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

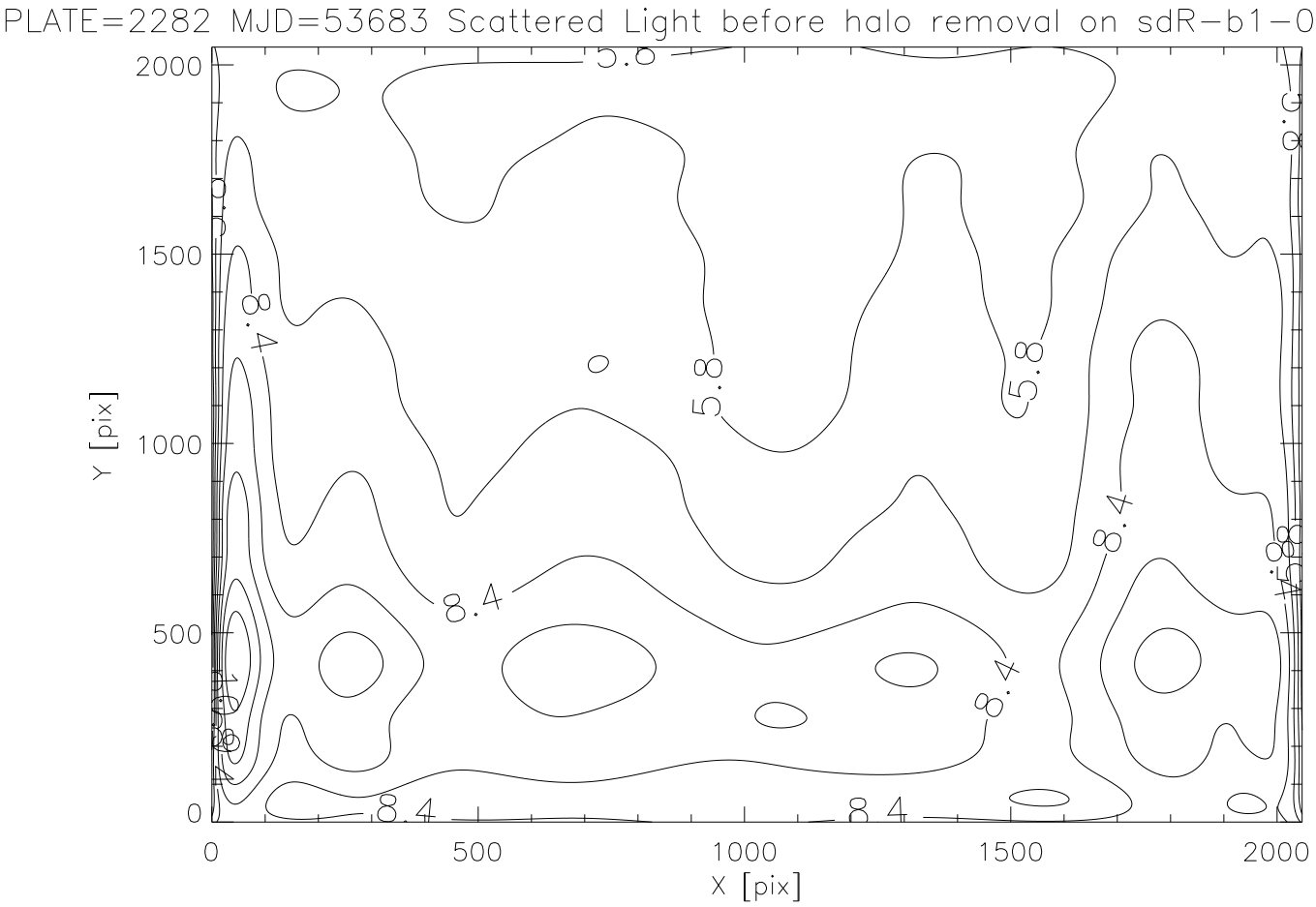

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

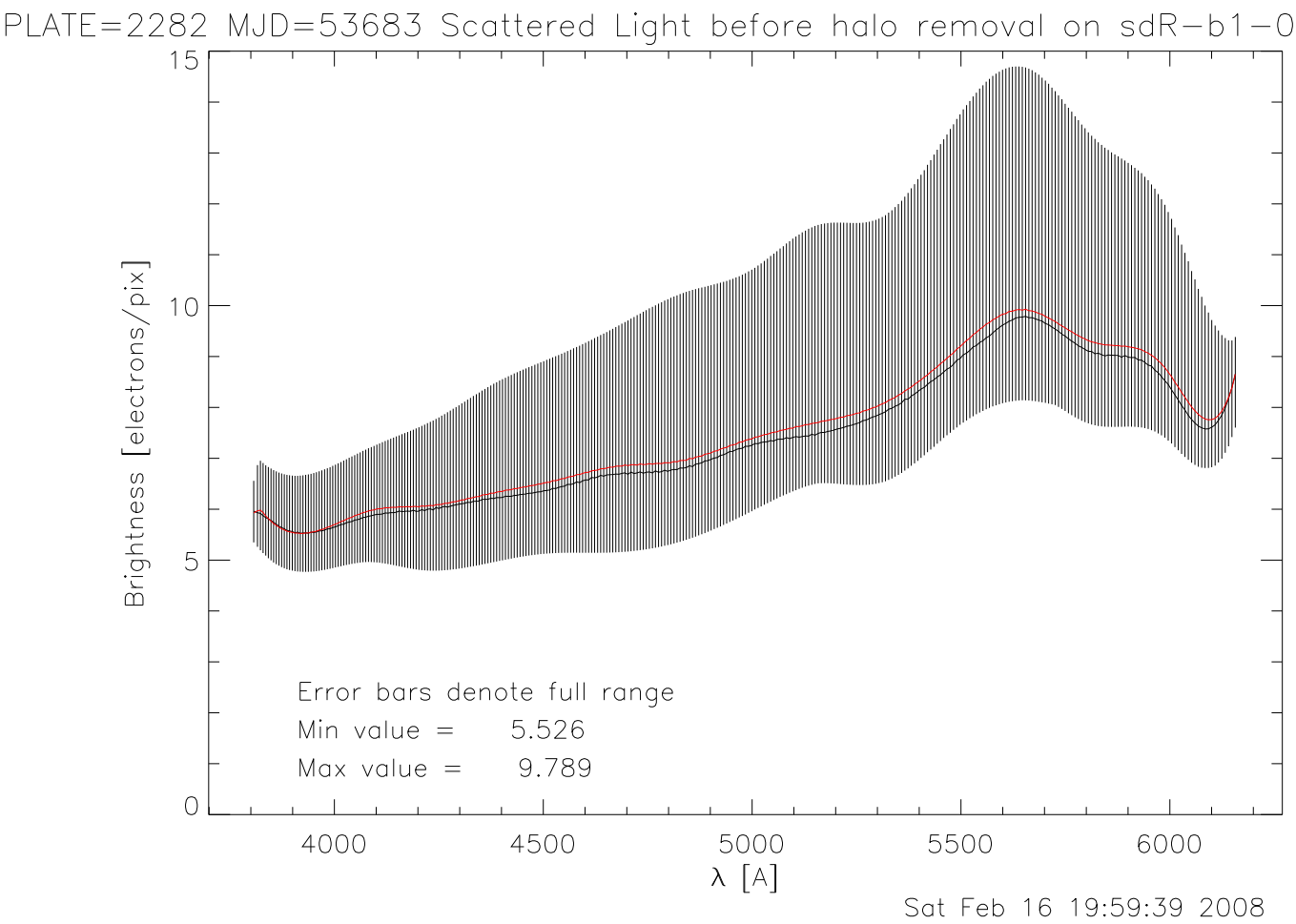

PLATE=2282 MJD=53683 flat extraction chi^2 for sdR−b1−00034758.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
14
0
500
1000
1500
2000

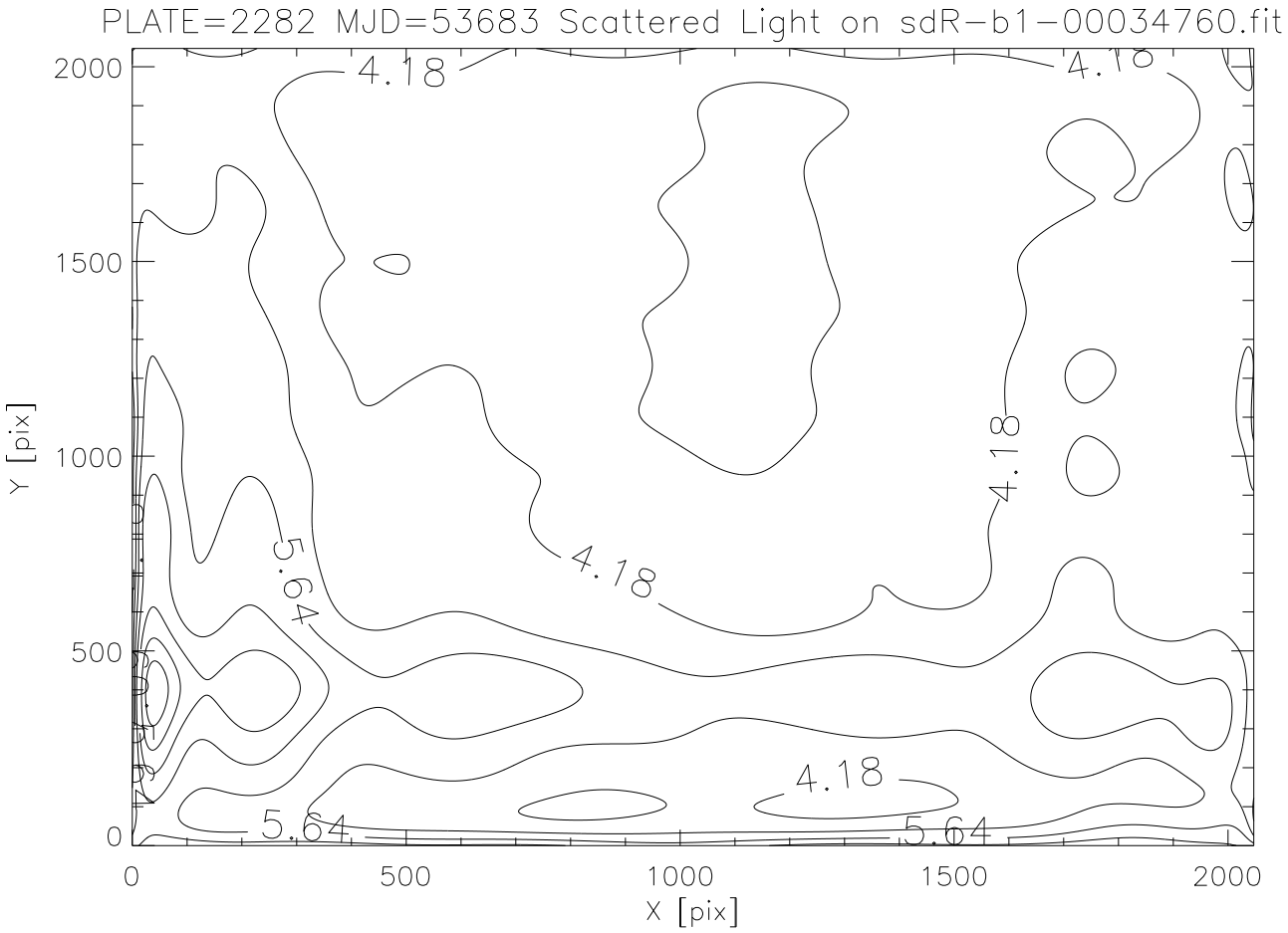

PLATE=2282 MJD=53683 Superflat sdR-b1-00034758.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

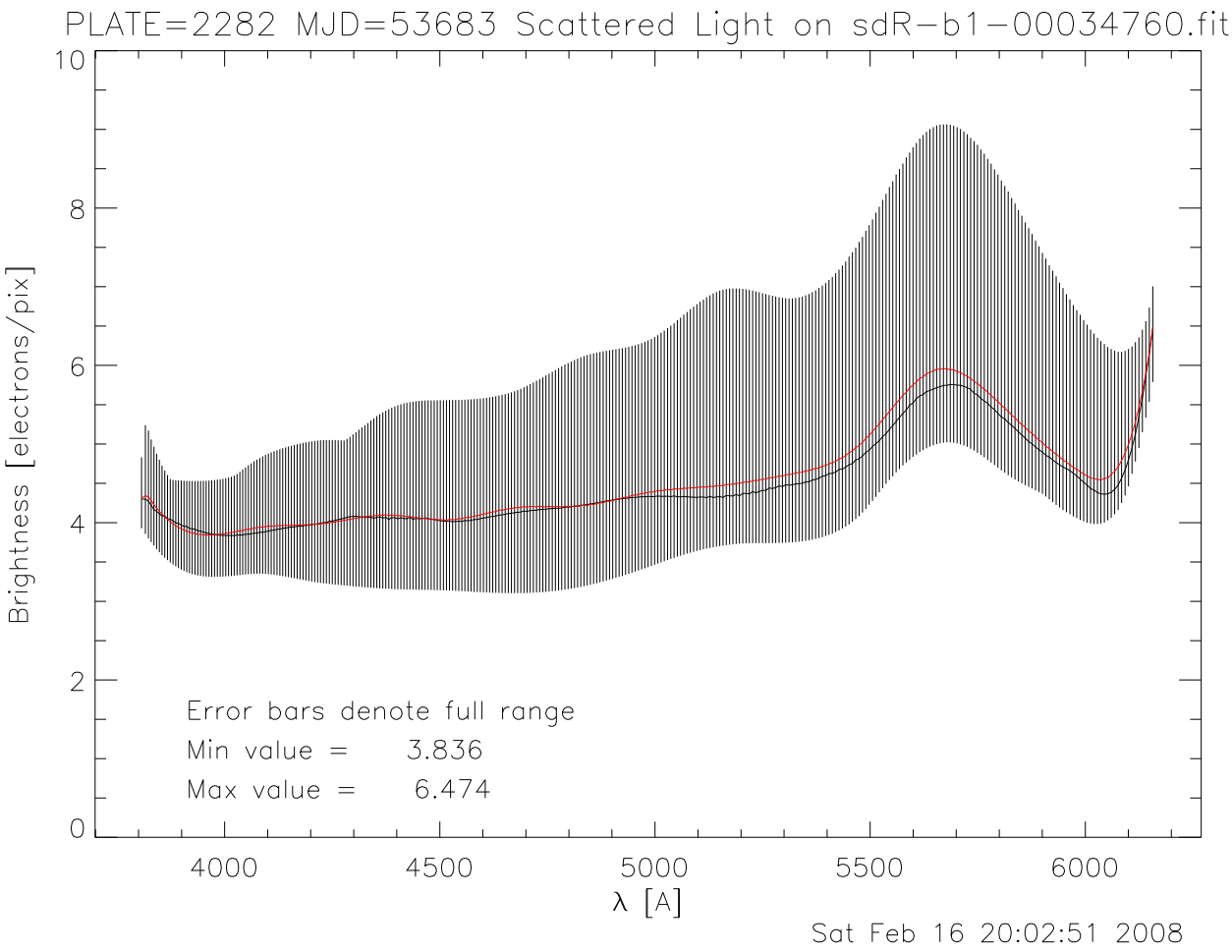

PLATE=2282 MJD=53683 Arcline Fit for sdR-b1-00034759.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 19:58:37 2008

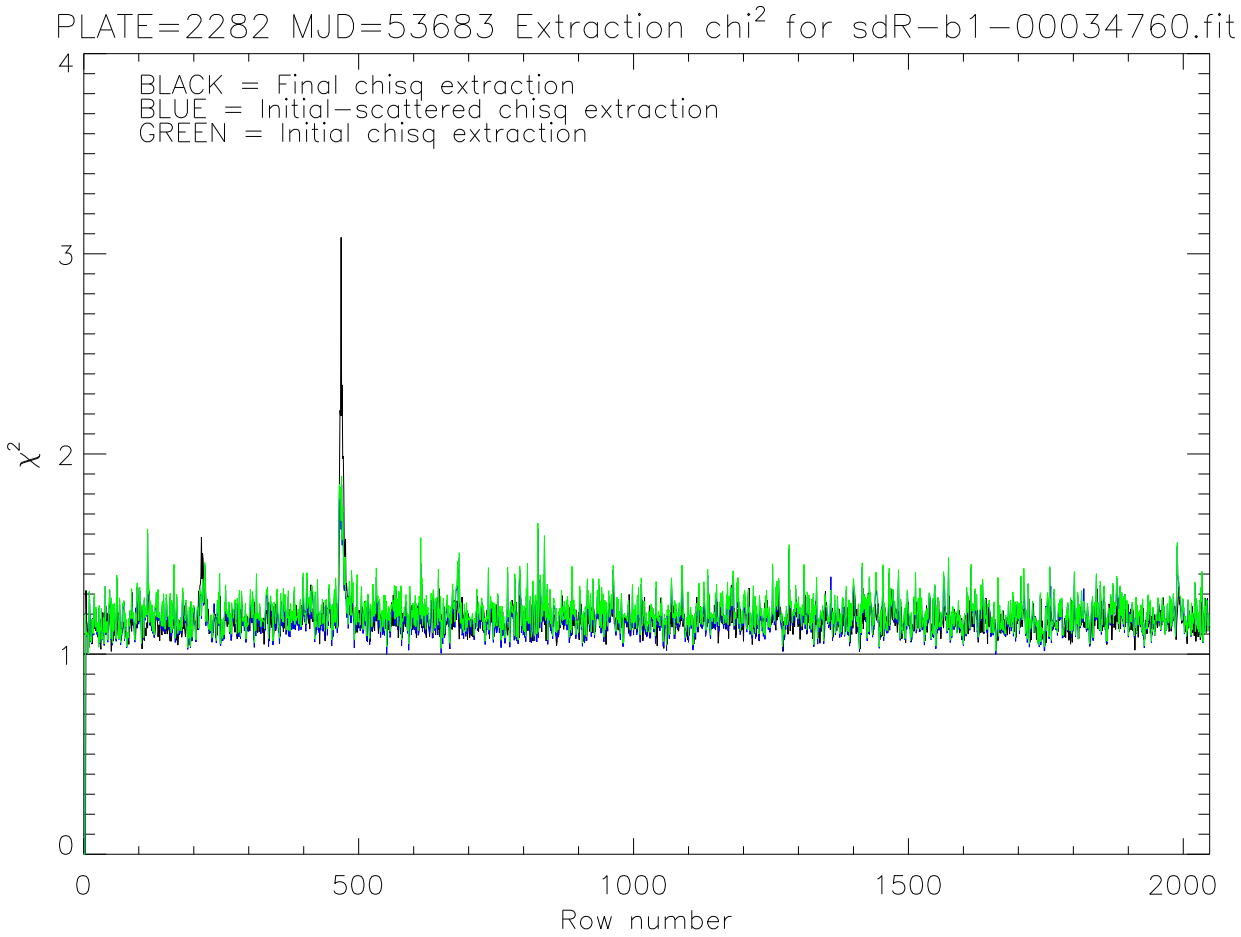

PLATE=2282 MJD=53683 Fiber−Flats for sdR−b1−00034758.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.362
Max value = 1.199
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 19:58:45 2008

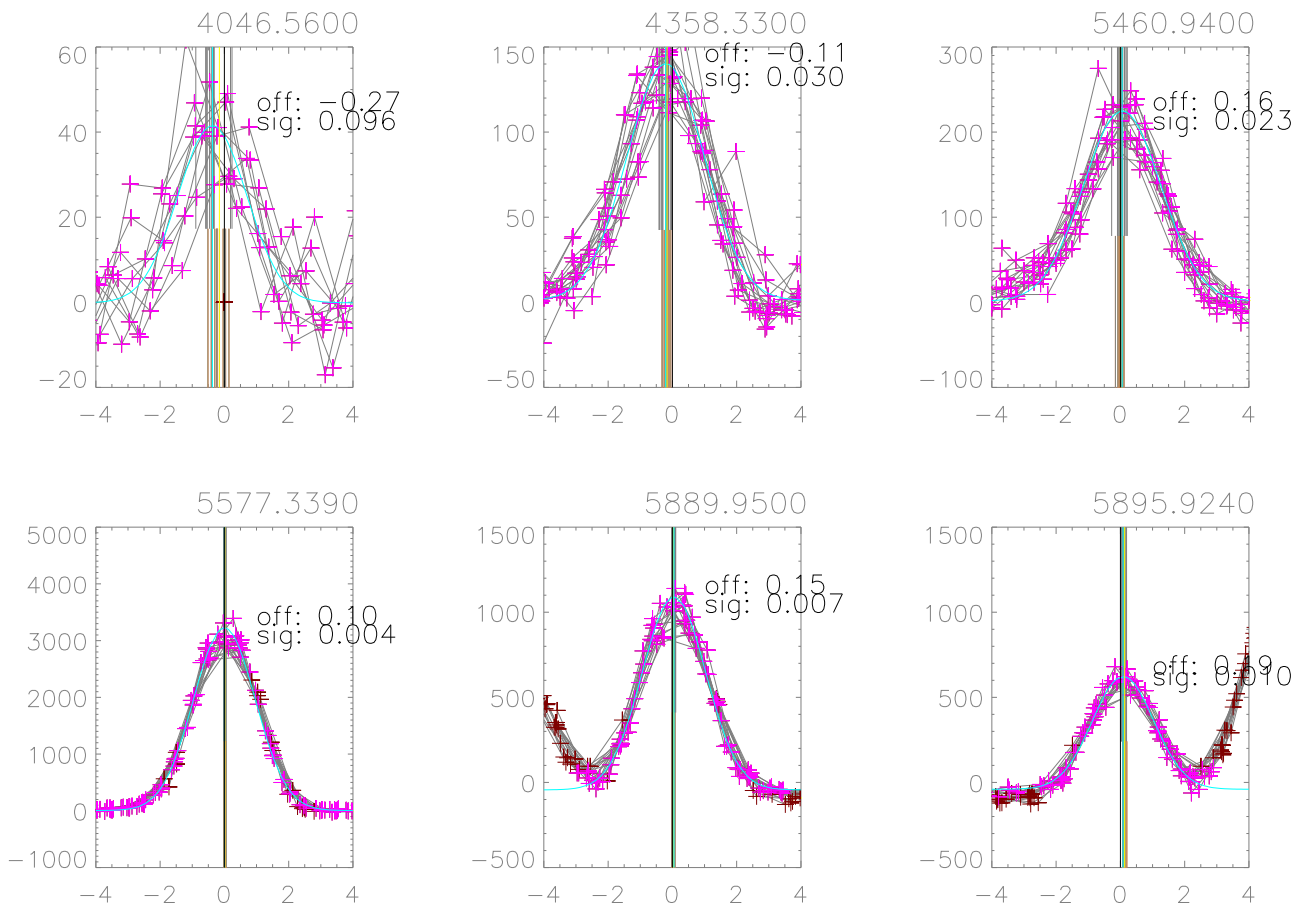

PLATE=2282 MJD=53683 Scattered Light before halo removal on sdR−b1−00034760.f
Y [pix]
X [pix]
0
500
1000
1500
2000
5.8
8.4
0

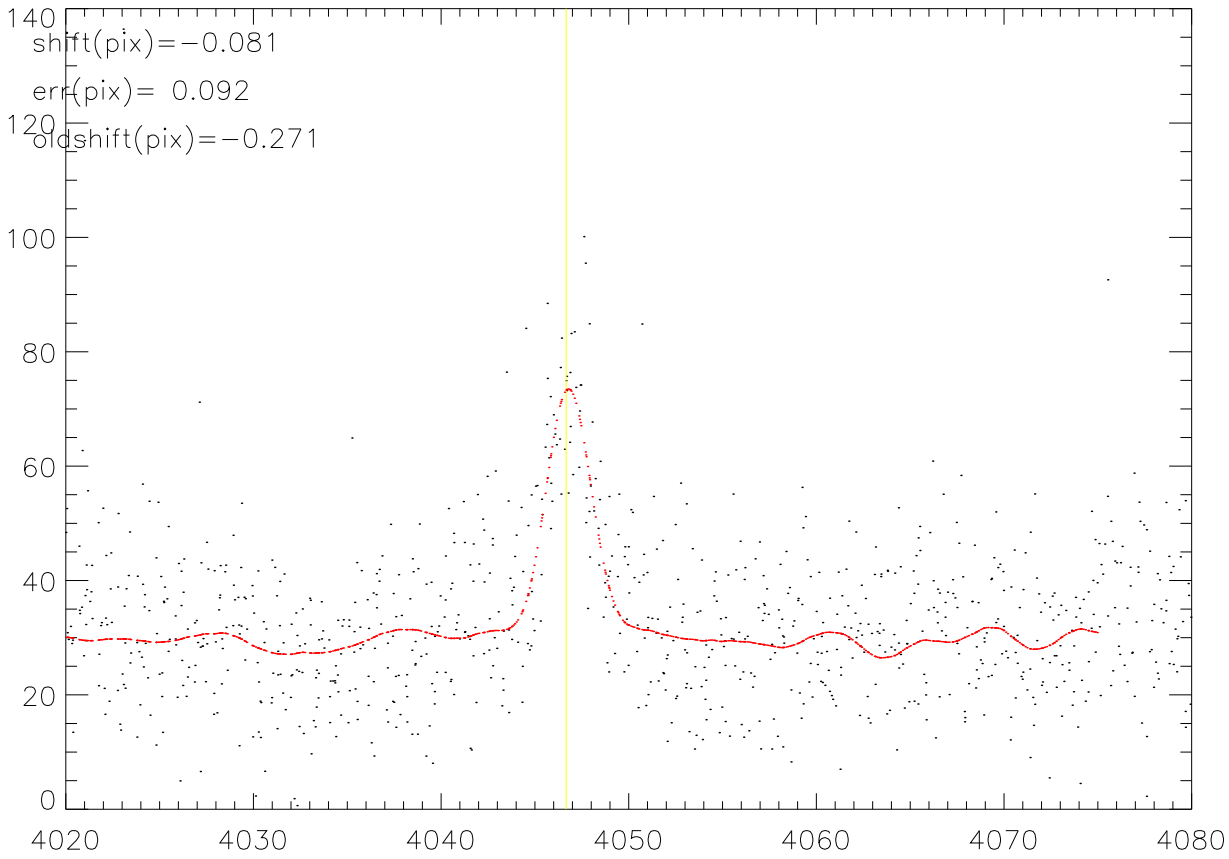

PLATE=2282 MJD=53683 Scattered Light before halo removal on sdR-b1-00034760.f
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 5.526
Max value = 9.789
Sat Feb 16 19:59:39 2008

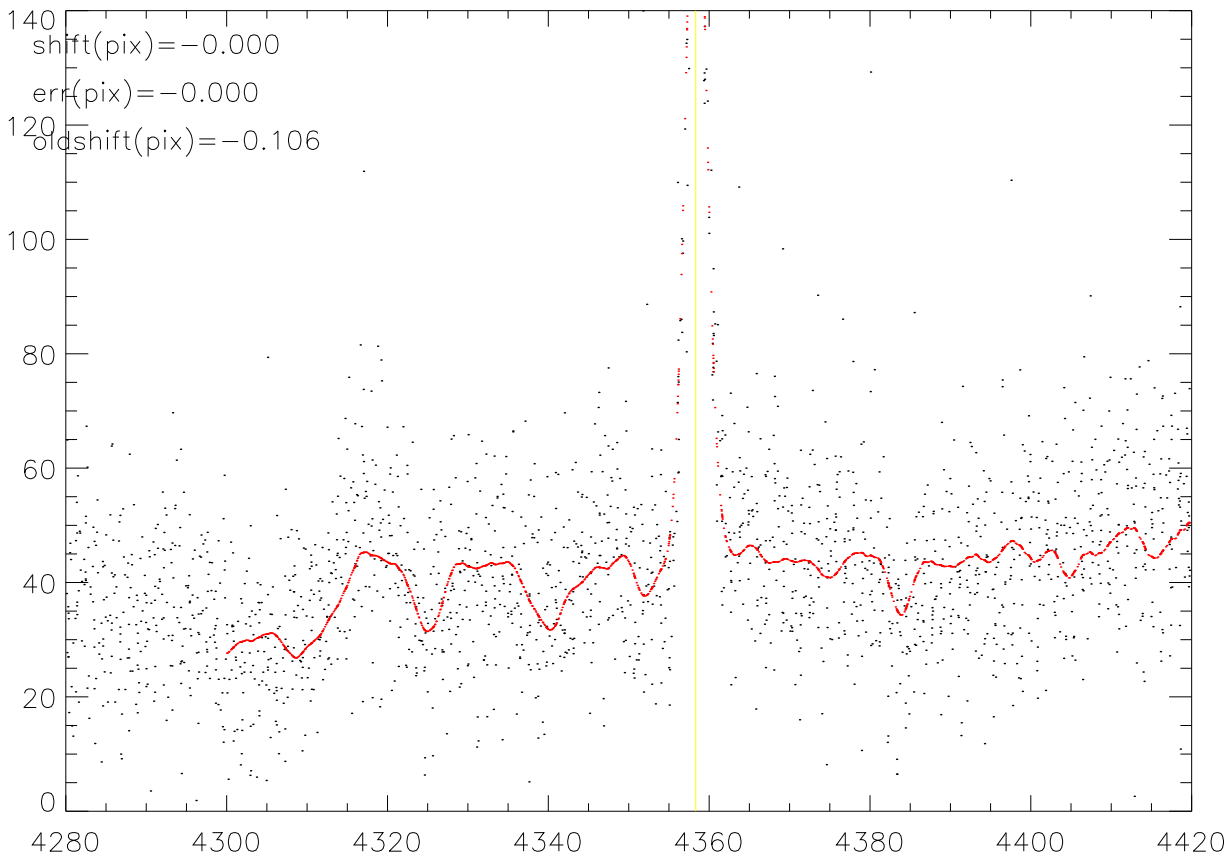

PLATE=2282 MJD=53683 Scattered Light on sdR-b1-00034760.fit
4.18
4.18
4.18
4.18
5.64
5.64
5.64
Y [pix]
X [pix]
0
500
1000
1500
2000

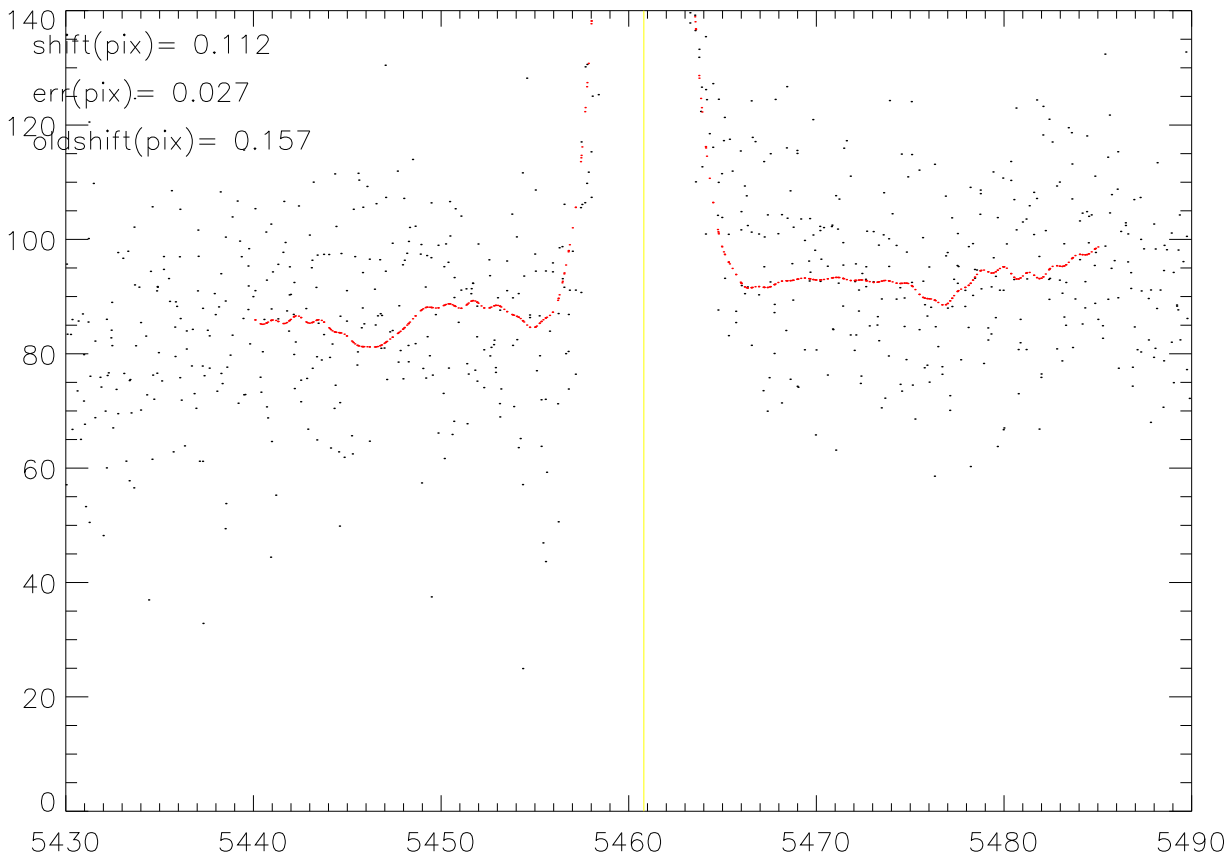

PLATE=2282 MJD=53683 Scattered Light on sdR-b1-00034760.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.836
Max value = 6.474
Sat Feb 16 20:02:51 2008

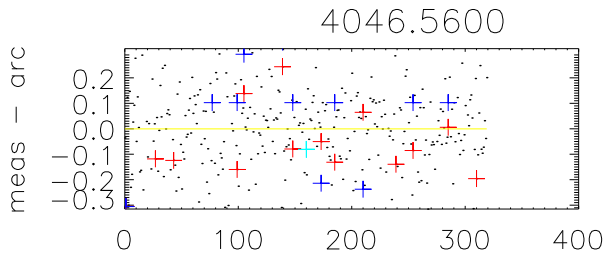

PLATE=2282 MJD=53683 Extraction chi^2 for sdR−b1−00034760.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

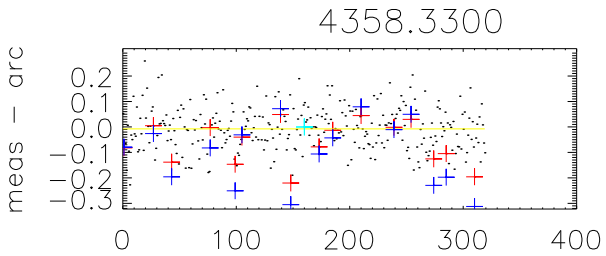

4046.5600
off: −0.27
sig: 0.096
4358.3300
off: −0.11
sig: 0.030
5460.9400
off: 0.16
sig: 0.023
5577.3390
off: 0.10
sig: 0.004
5889.9500
off: 0.15
sig: 0.007
5895.9240
off: 0.19
sig: 0.010

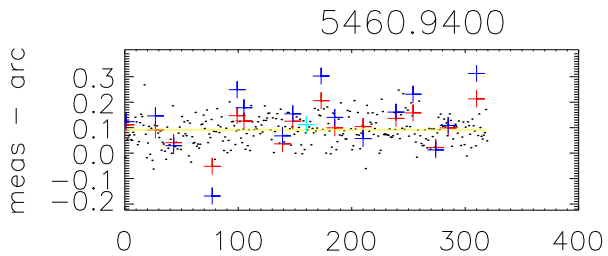

shift(pix)=−0.081
err(pix)= 0.092
oldshift(pix)=−0.271
140
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

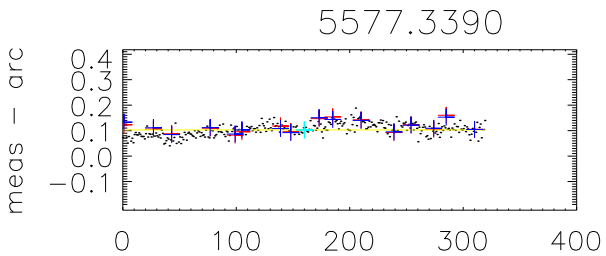

shift(pix)=−0.000
err(pix)=−0.000
oldshift(pix)=−0.106
140
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

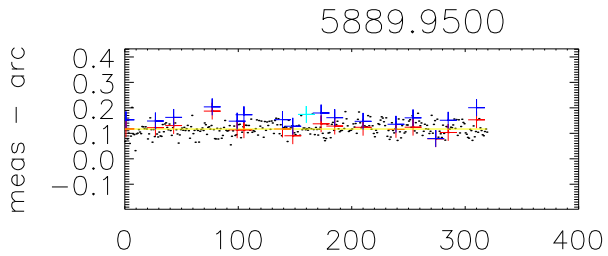

shift(pix)= 0.112
err(pix)= 0.027
oldshift(pix)= 0.157
140
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

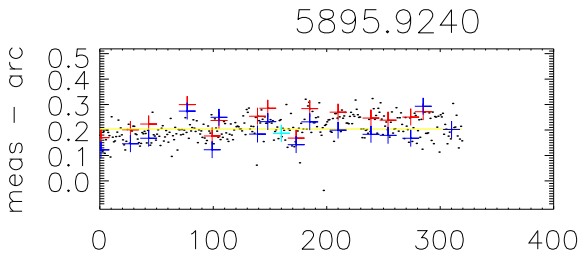

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

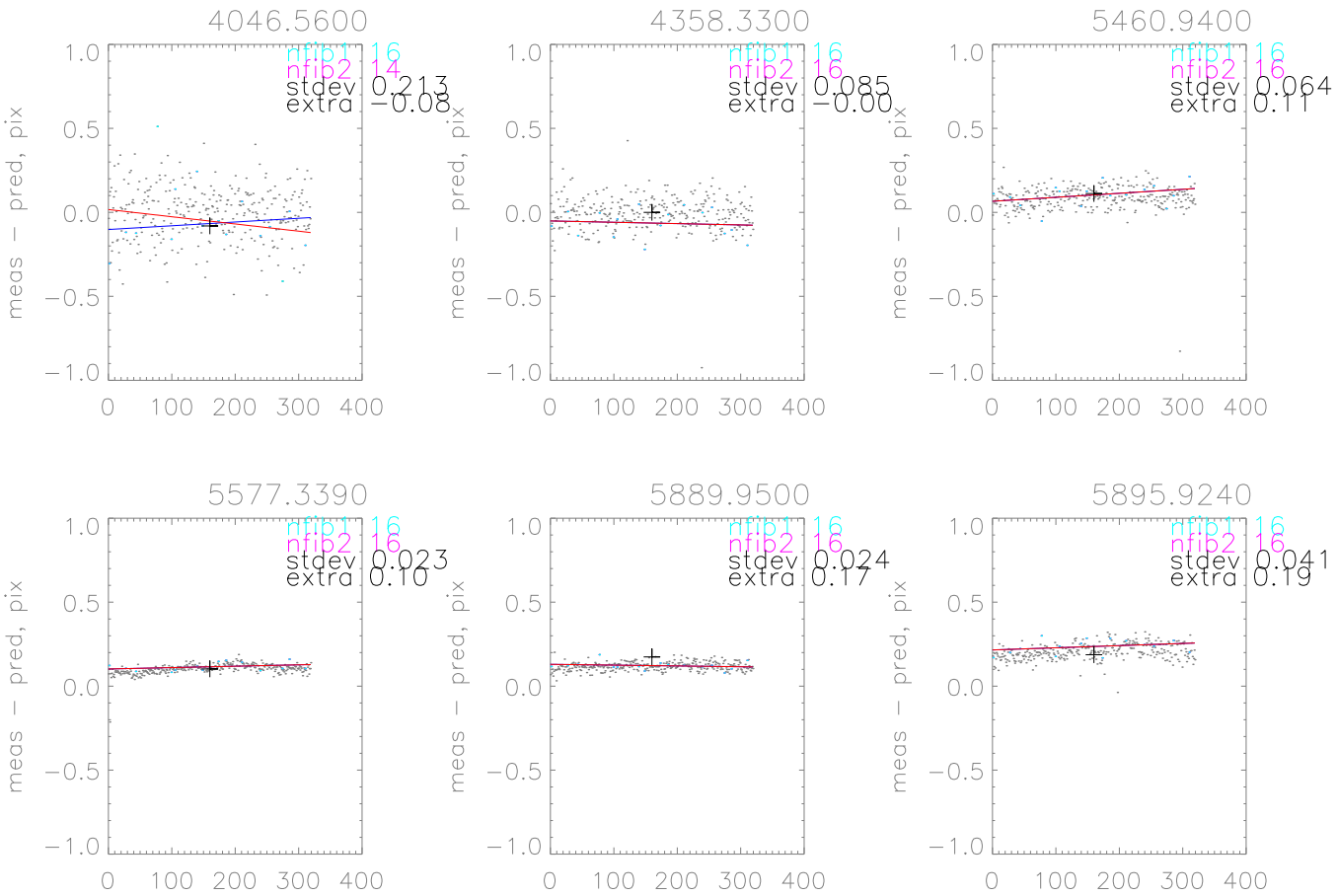

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

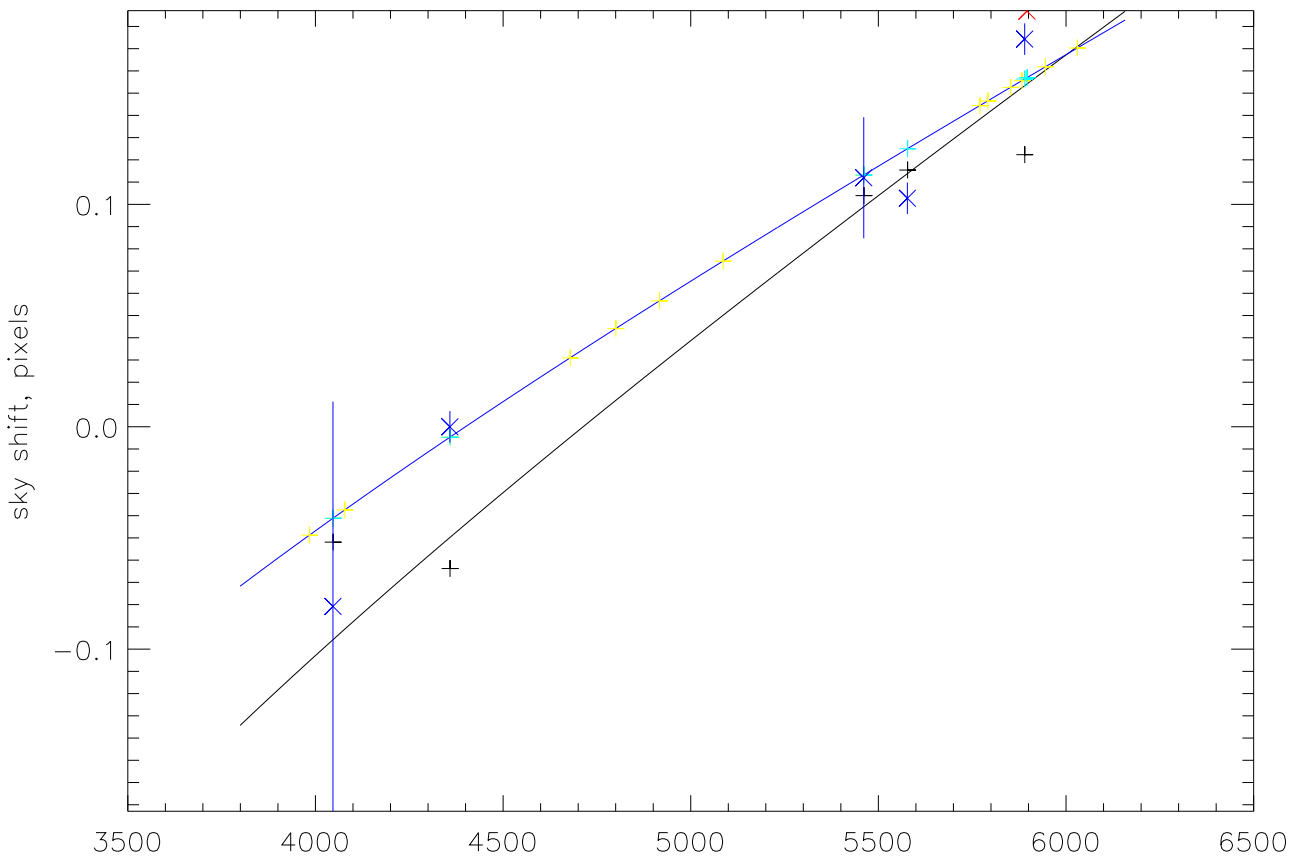

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

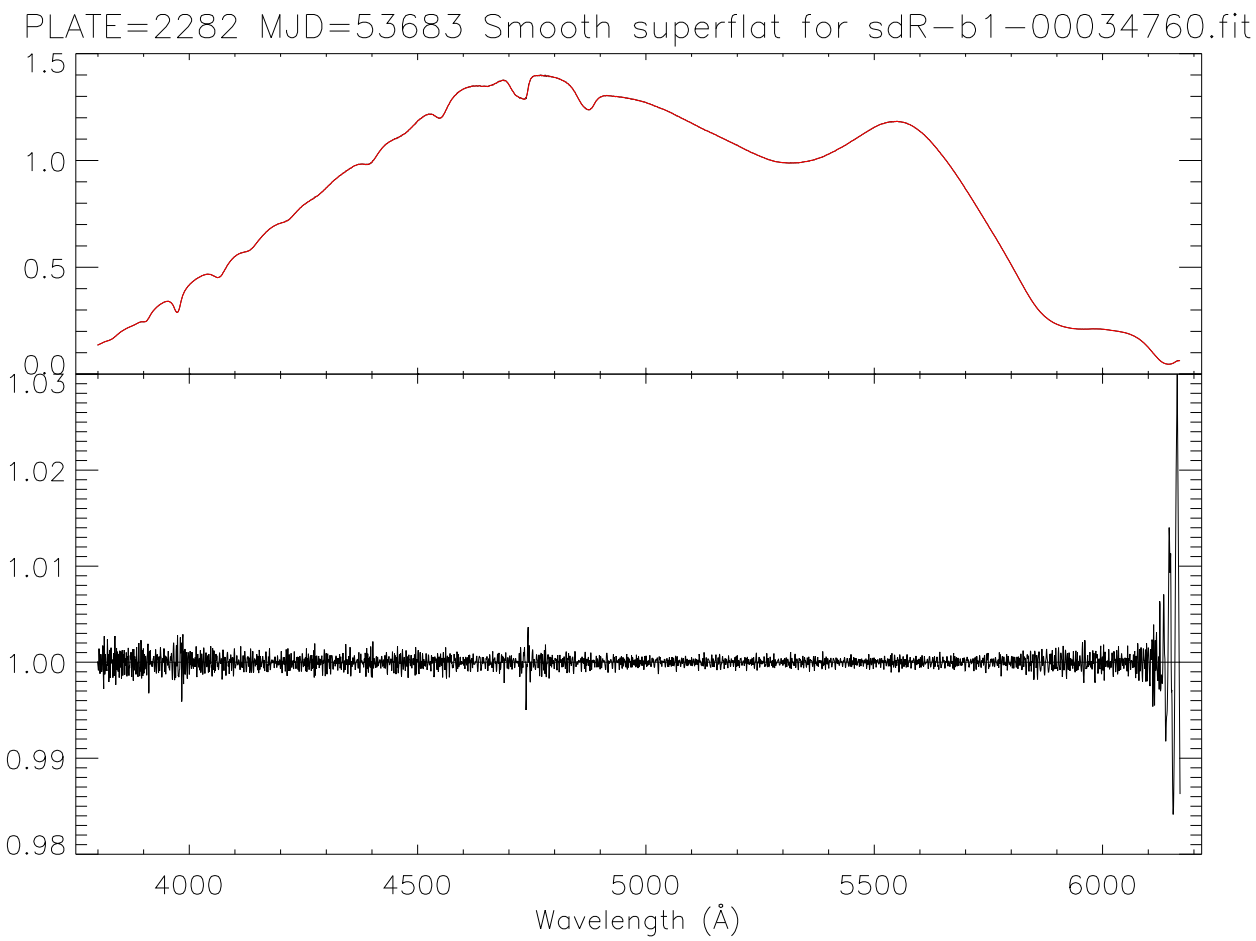

5889.9500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

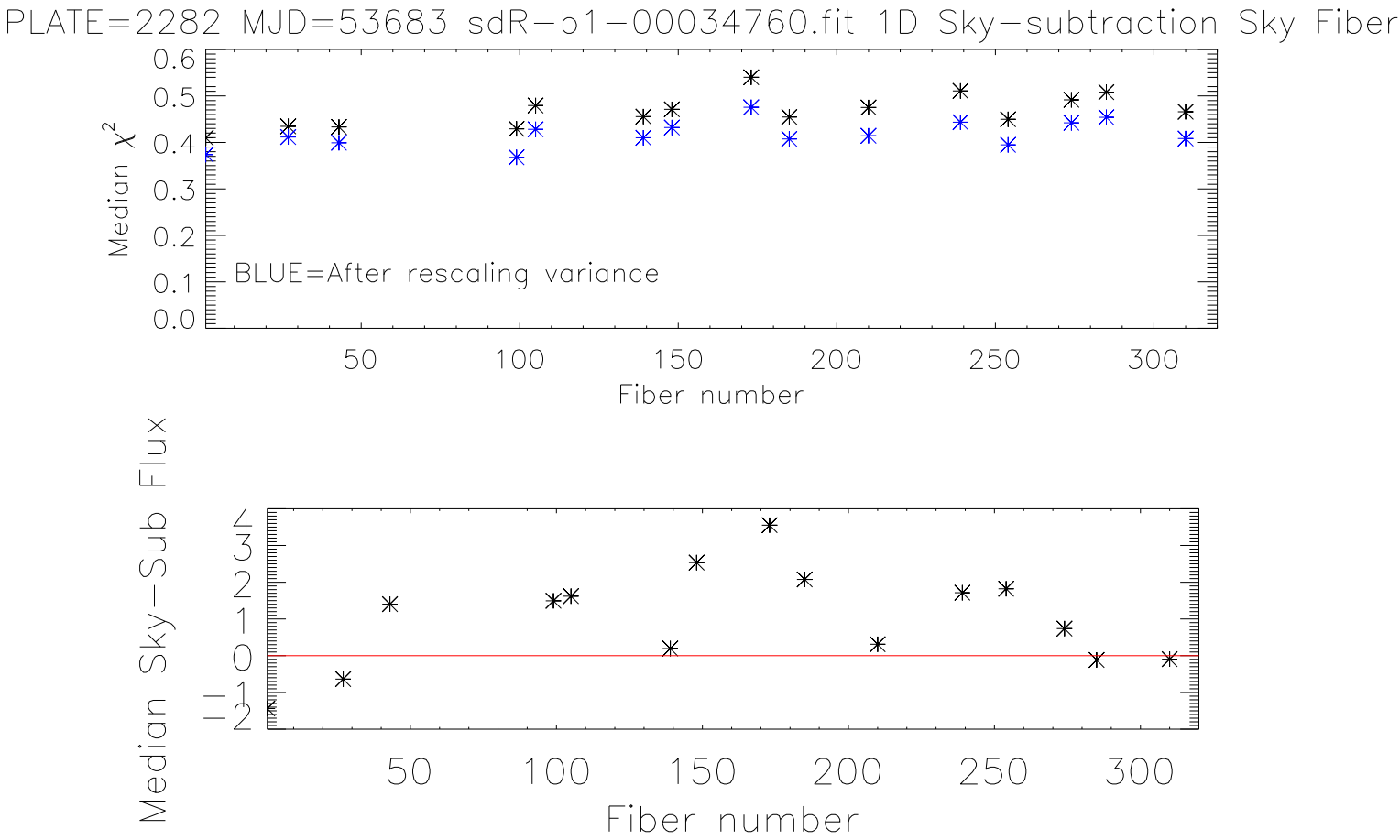

5895.9240
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

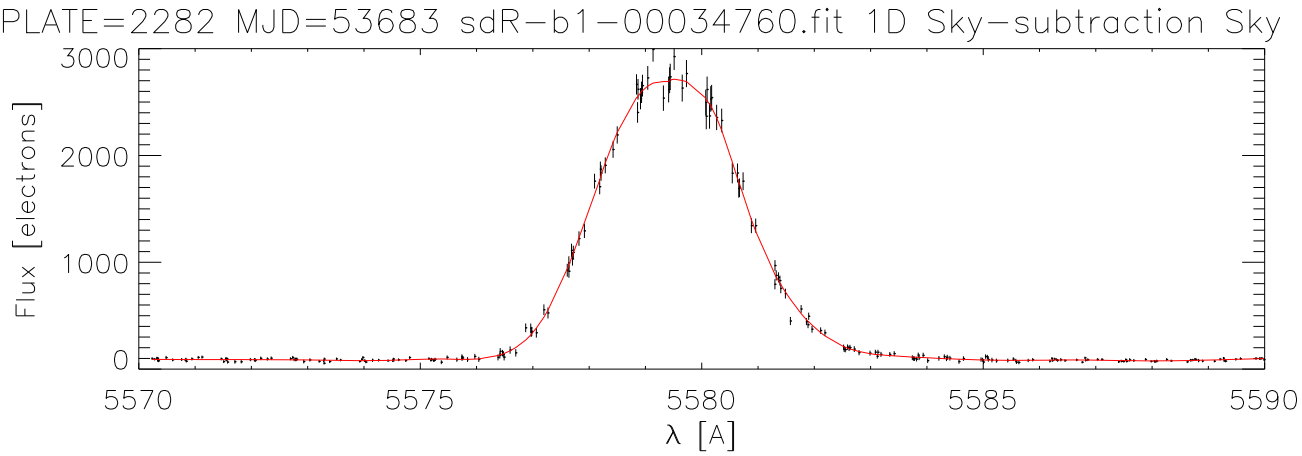

4046.5600
nfib1 16
nfib2 14
stdev 0.213
extra −0.08
4358.3300
nfib1 16
nfib2 16
stdev 0.085
extra −0.00
5460.9400
nfib1 16
nfib2 16
stdev 0.064
extra 0.11
5577.3390
nfib1 16
nfib2 16
stdev 0.023
extra 0.10
5889.9500
nfib1 16
nfib2 16
stdev 0.024
extra 0.17
5895.9240
nfib1 16
nfib2 16
stdev 0.041
extra 0.19
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

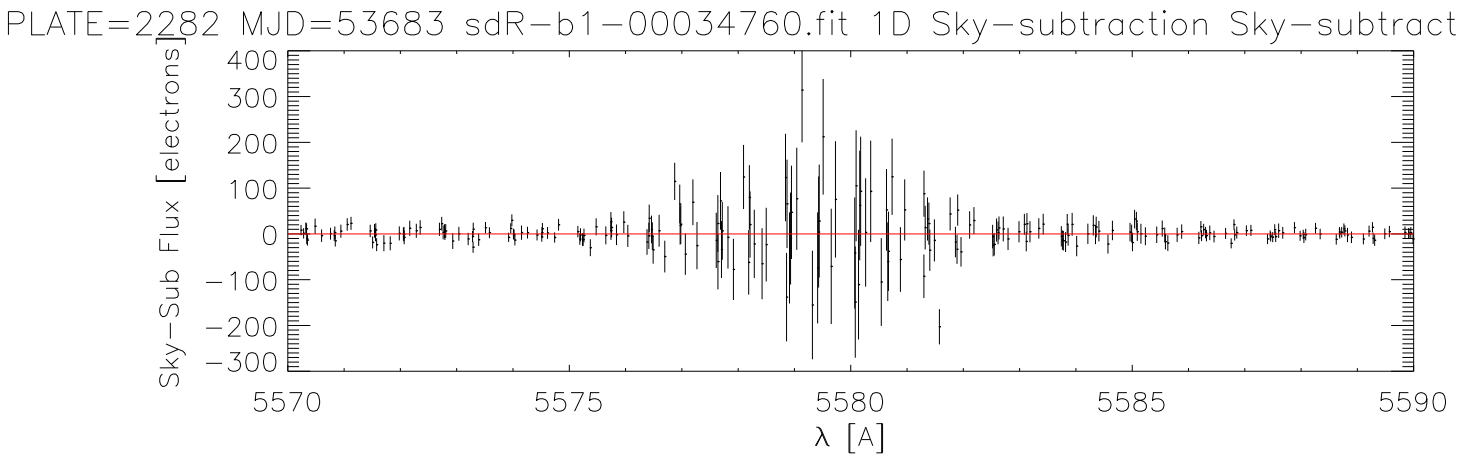

sky shift, pixels
0.1
0.0
−0.1
3500
4000
4500
5000
5500
6000
6500

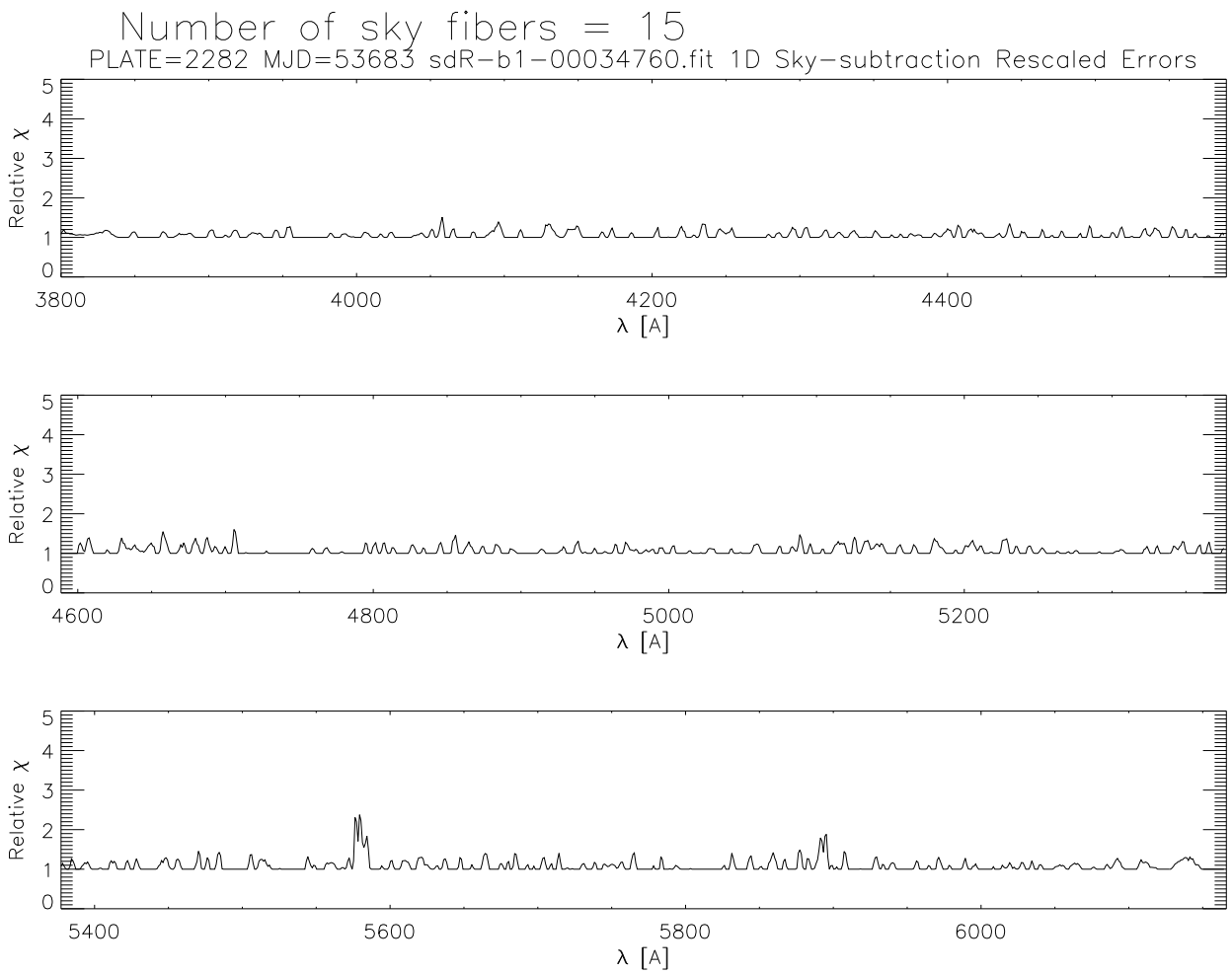
es= 0.0000

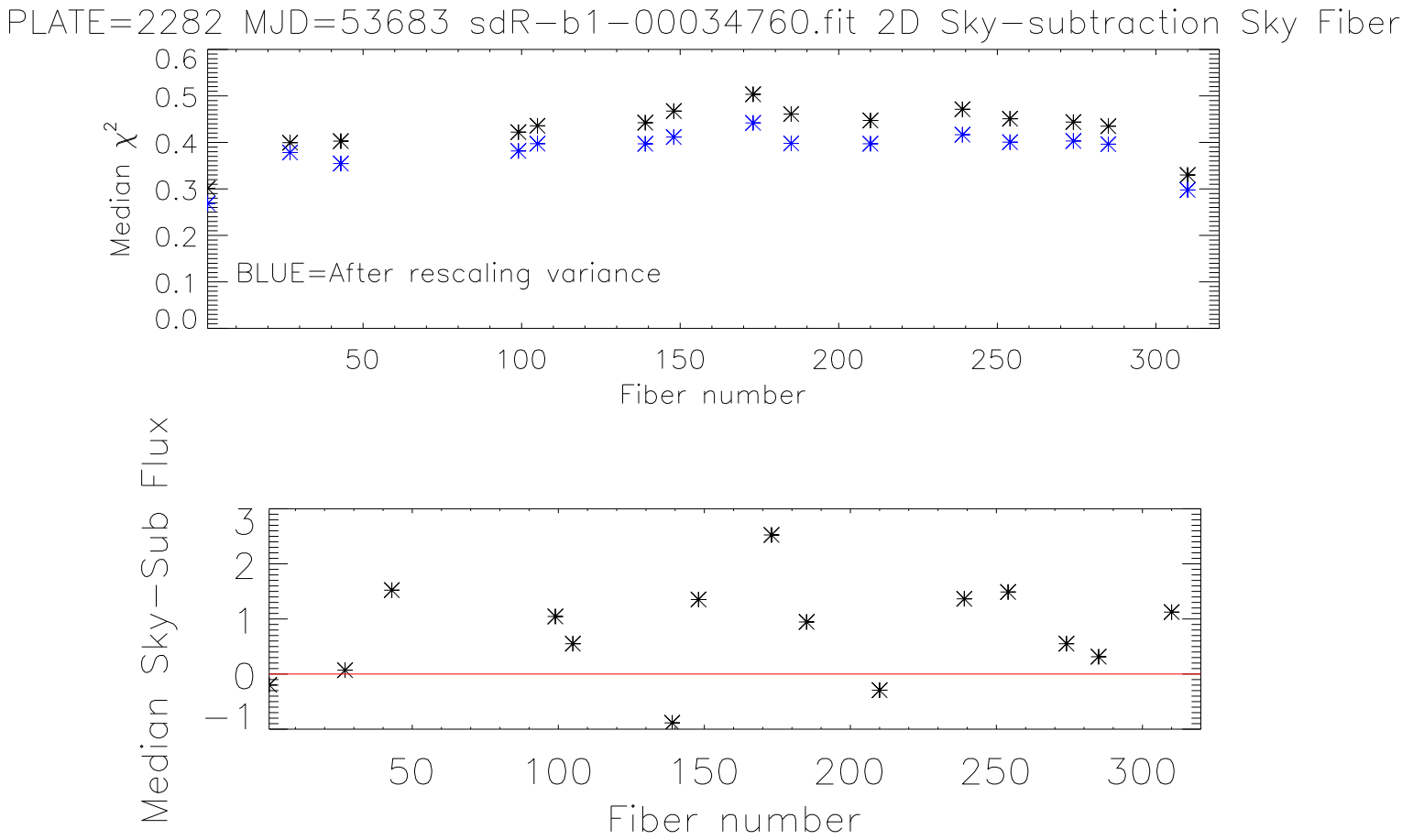

PLATE=2282 MJD=53683 Smooth superflat for sdR-b1-00034760.fit
1.5
1.0
0.5
0.0
1.03
1.02
1.01
1.00
0.99
0.98
4000
4500
5000
5500
6000
Wavelength (Å)

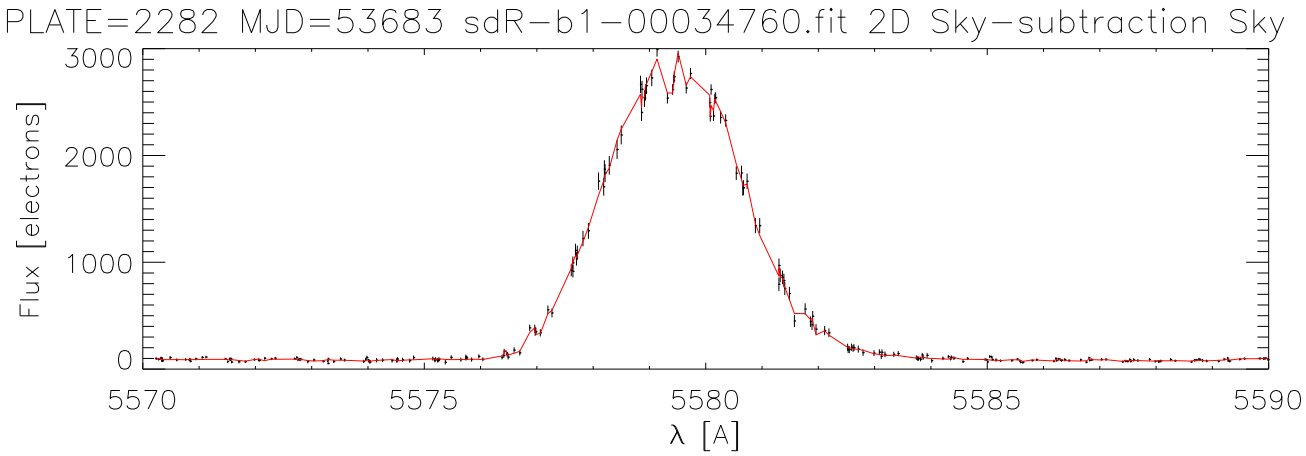

PLATE=2282 MJD=53683 sdR-b1-00034760.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
4
50
100
150
200
250
300
Fiber number

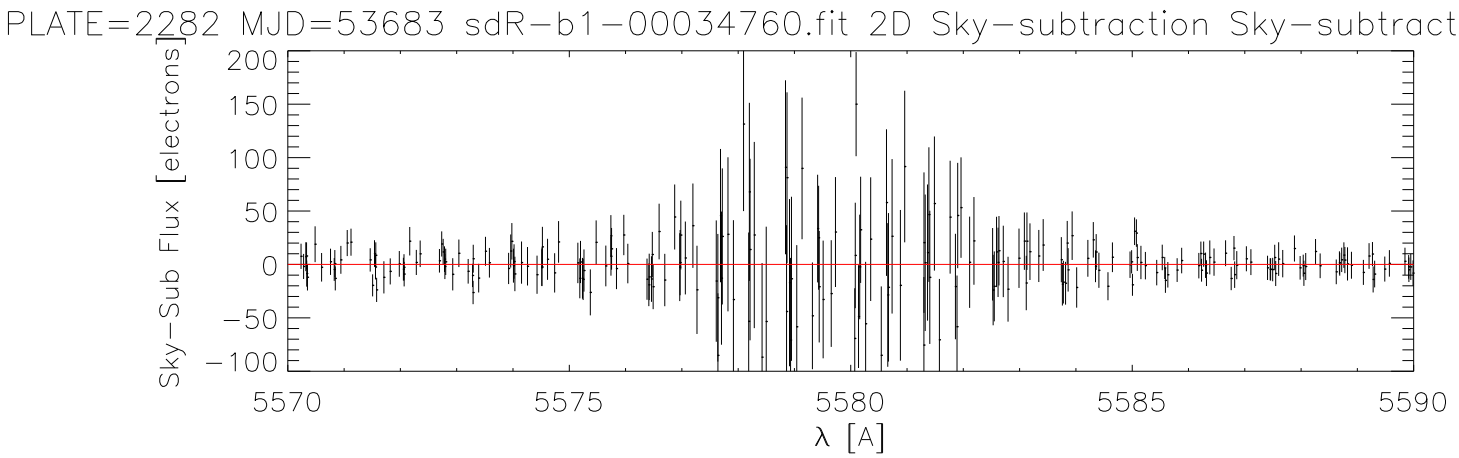

PLATE=2282 MJD=53683 sdR-b1-00034760.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

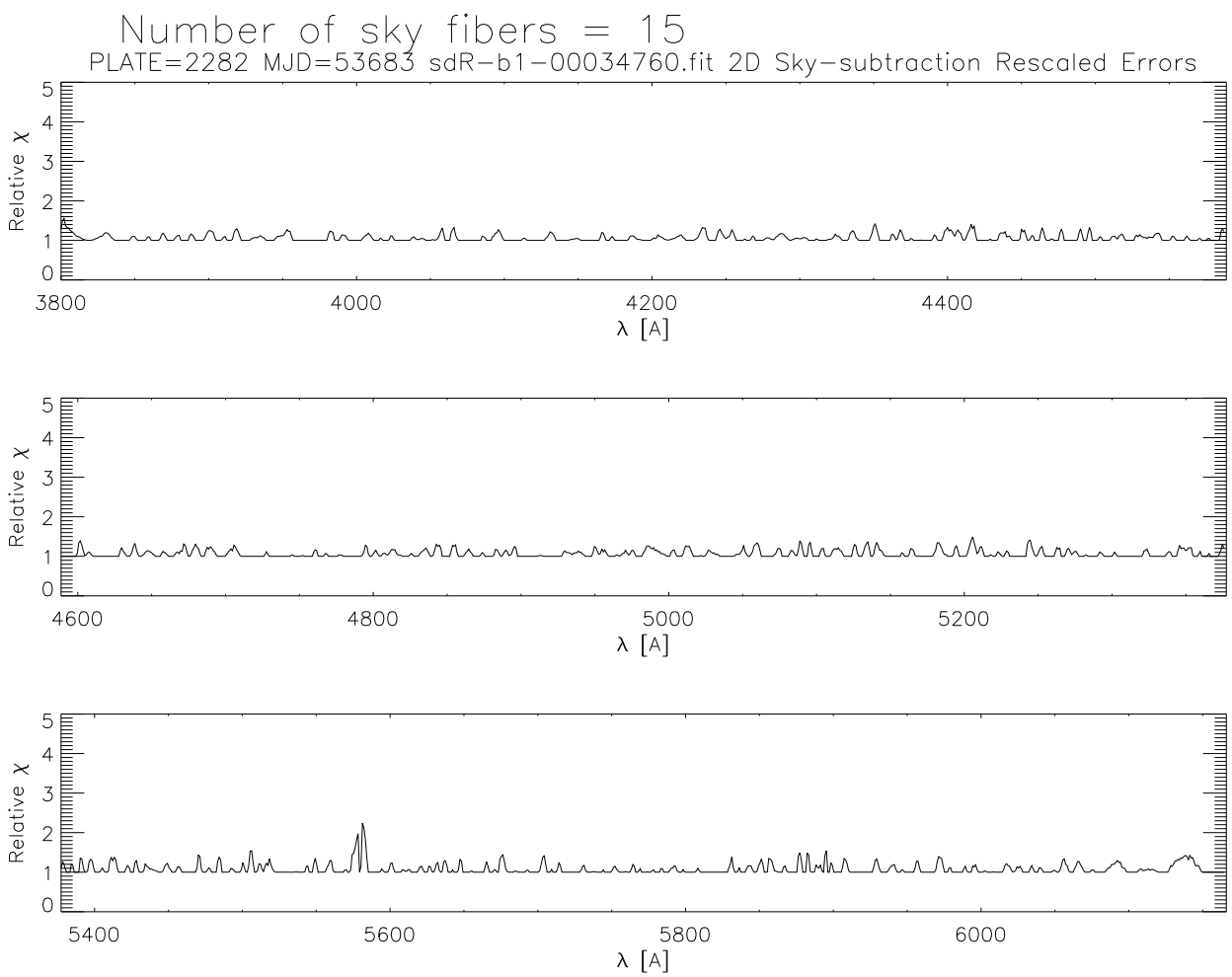

PLATE=2282 MJD=53683 sdR-b1-00034760.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

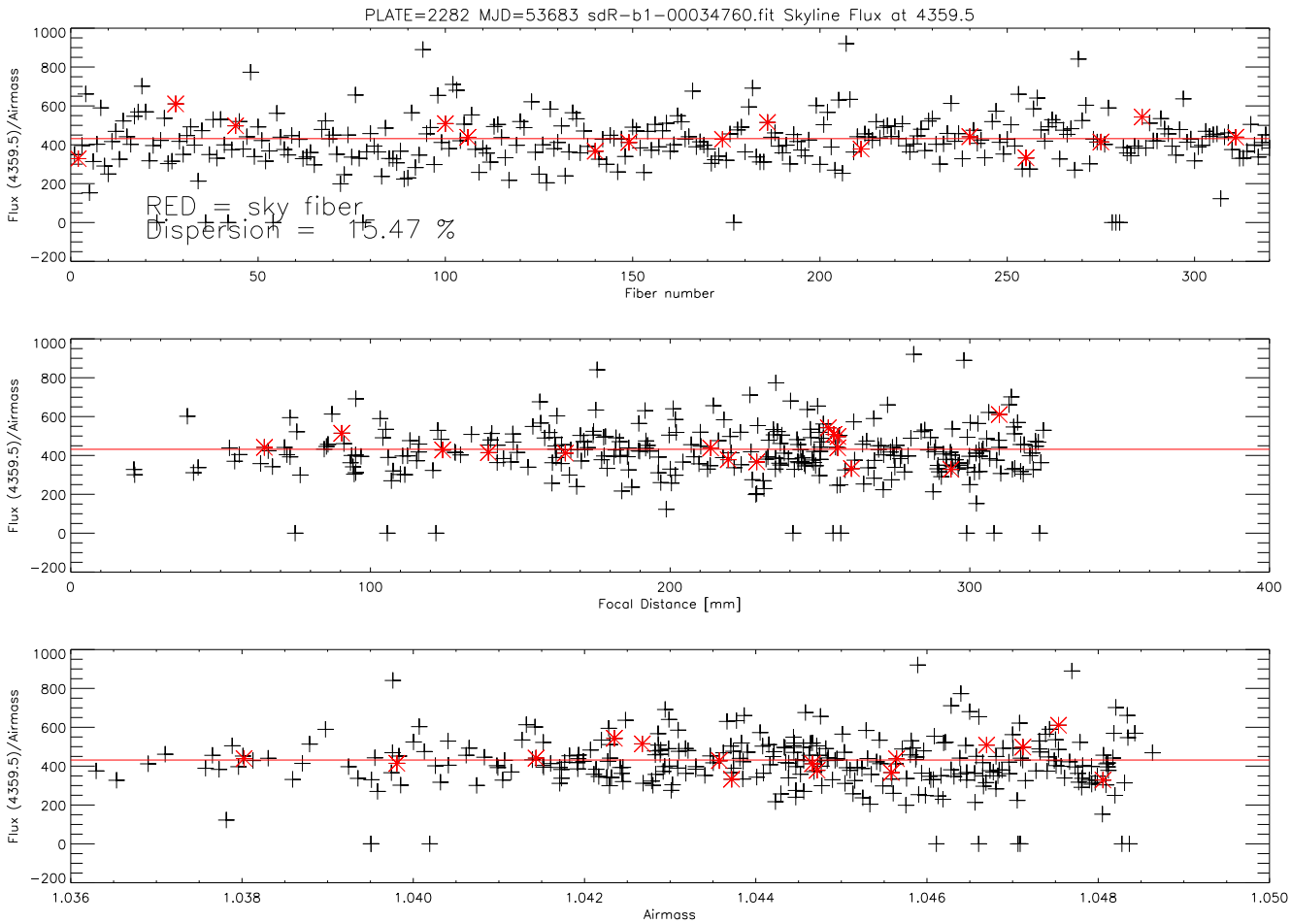

Number of sky fibers = 15
PLATE=2282 MJD=53683 sdR-b1-00034760.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

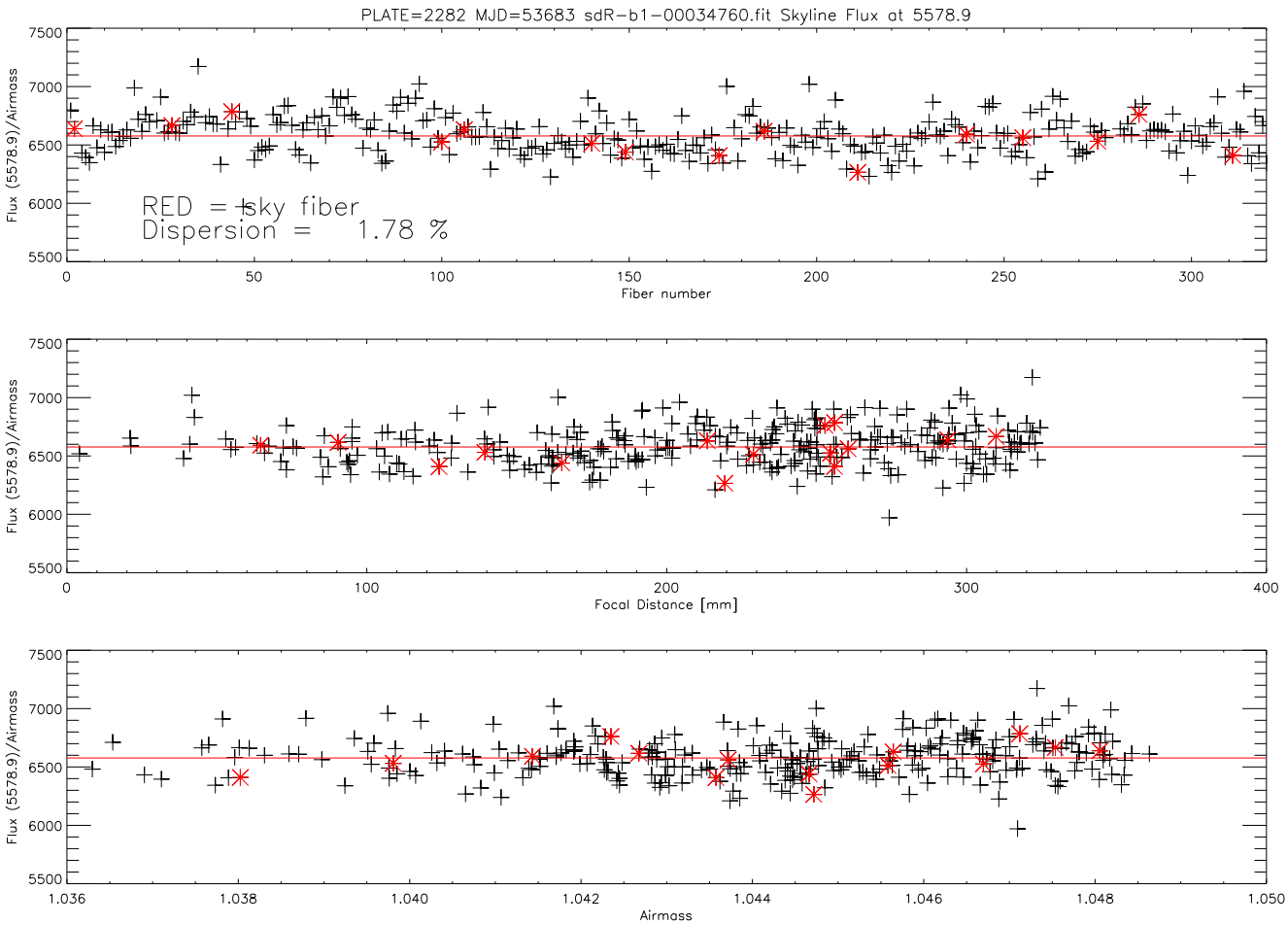

PLATE=2282 MJD=53683 sdR-b1-00034760.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

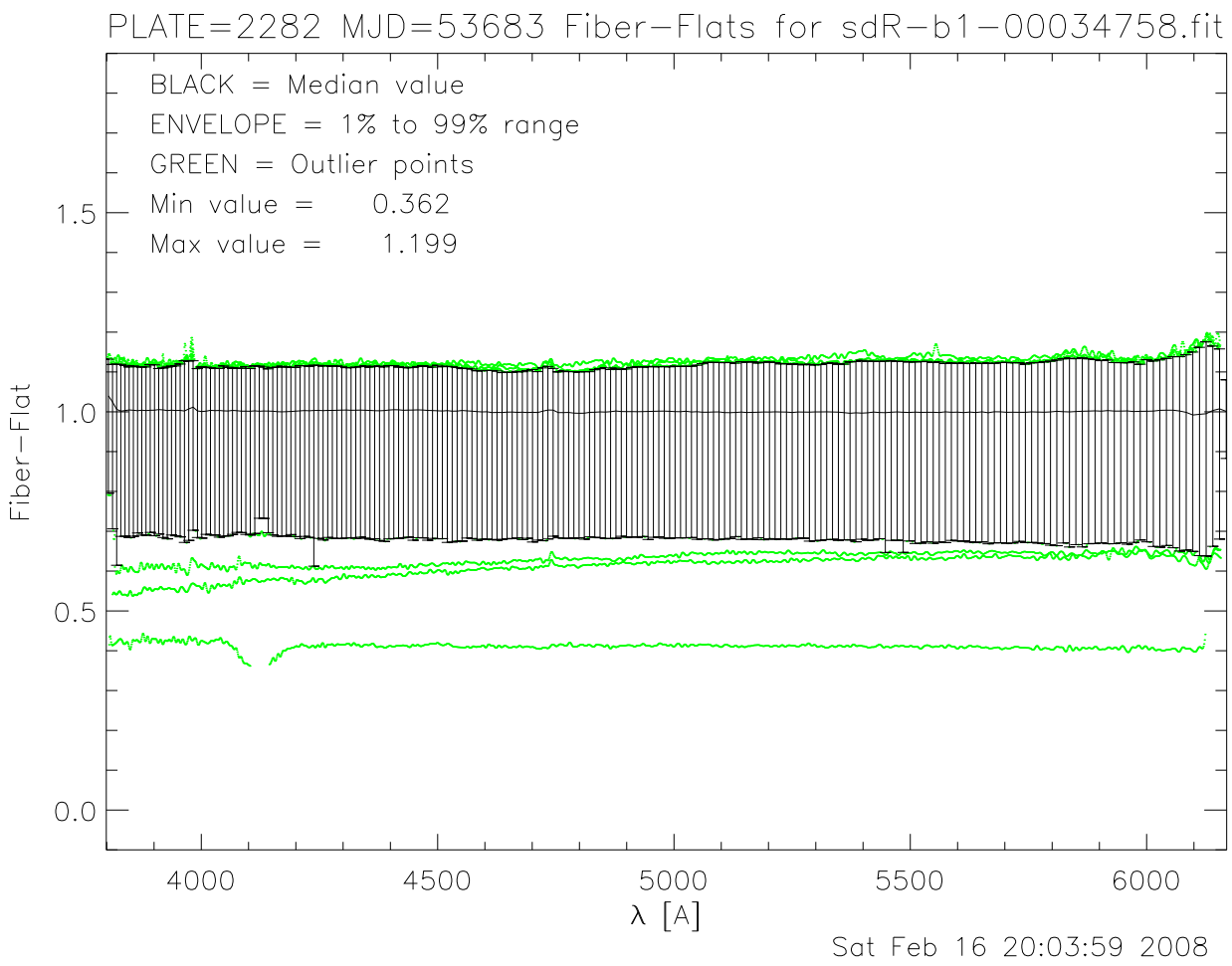

PLATE=2282 MJD=53683 sdR-b1-00034760.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

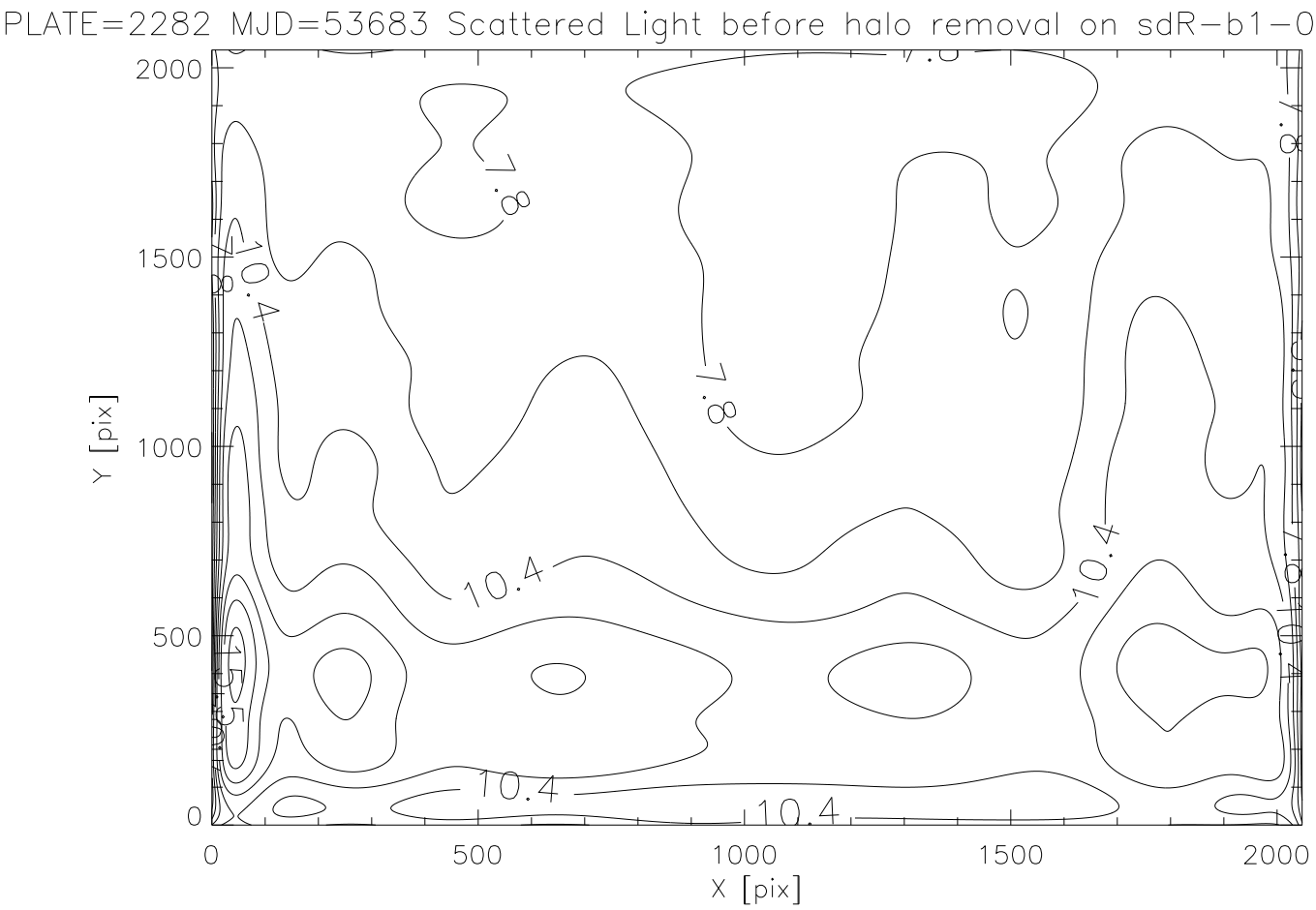

PLATE=2282 MJD=53683 sdR-b1-00034760.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
150
100
50
0
-50
-100
5570
5575
5580
5585
5590
λ [A]

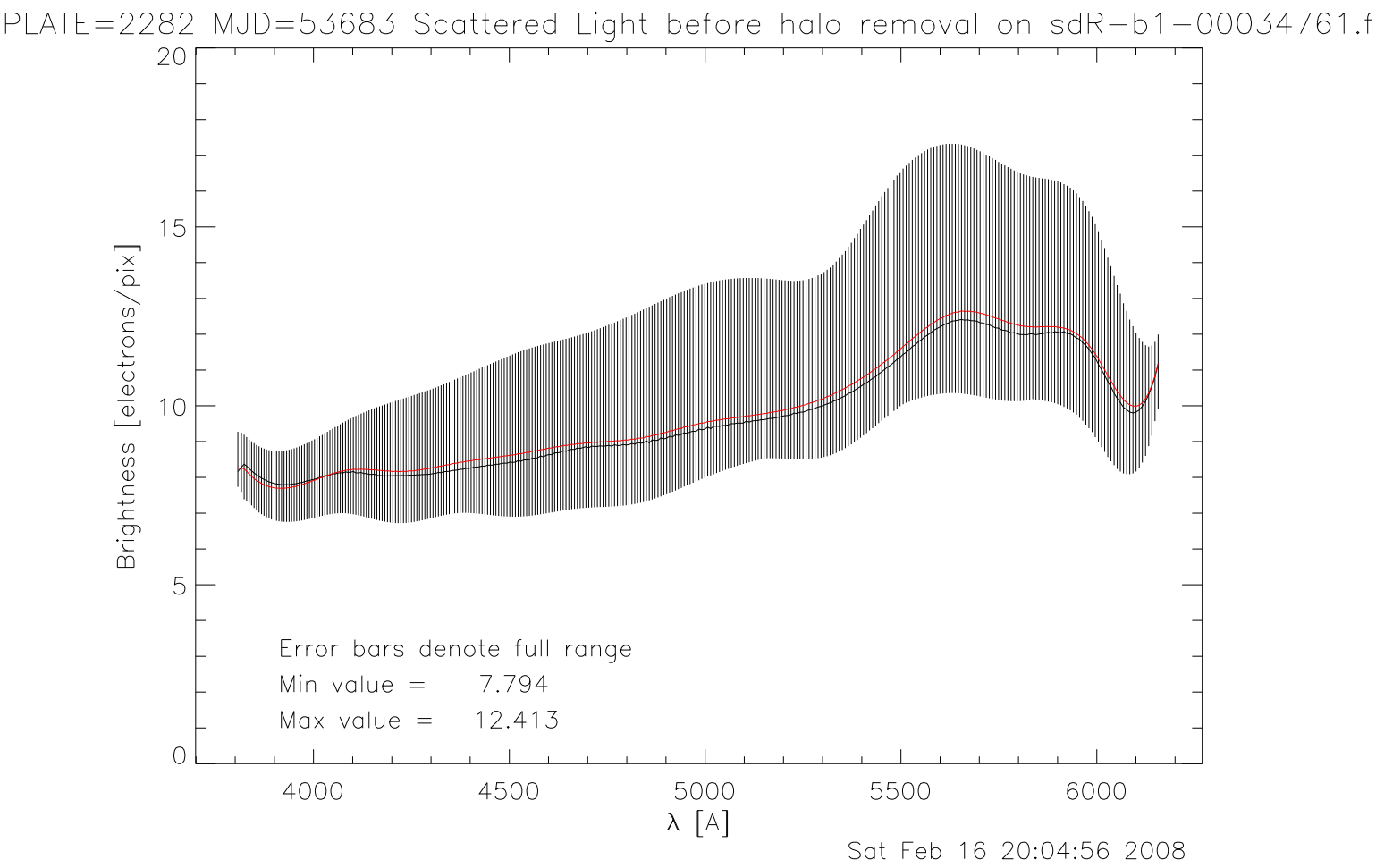

Number of sky fibers = 15
PLATE=2282 MJD=53683 sdR-b1-00034760.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

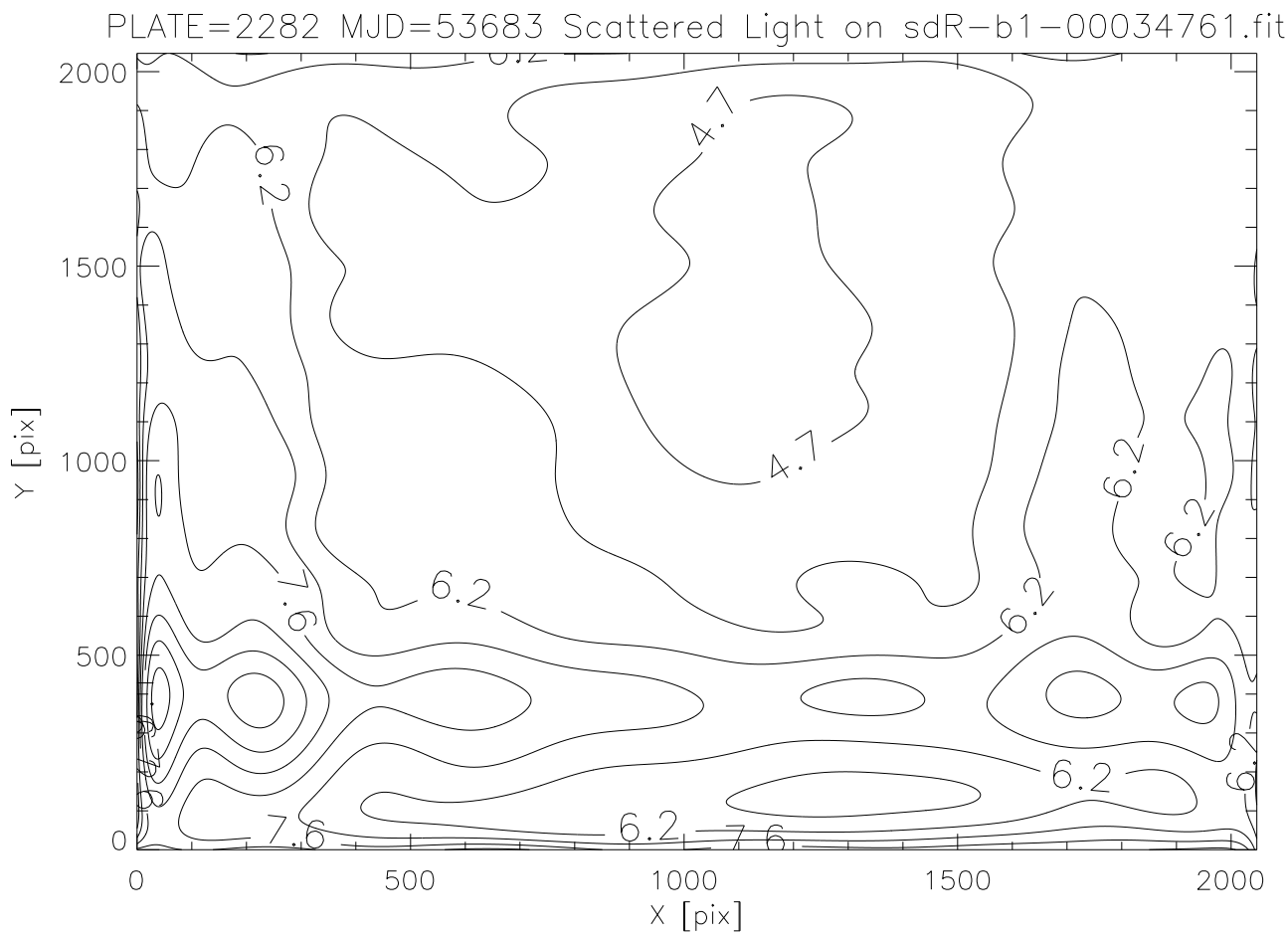

PLATE=2282 MJD=53683 sdR-b1-00034760.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 15.47 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

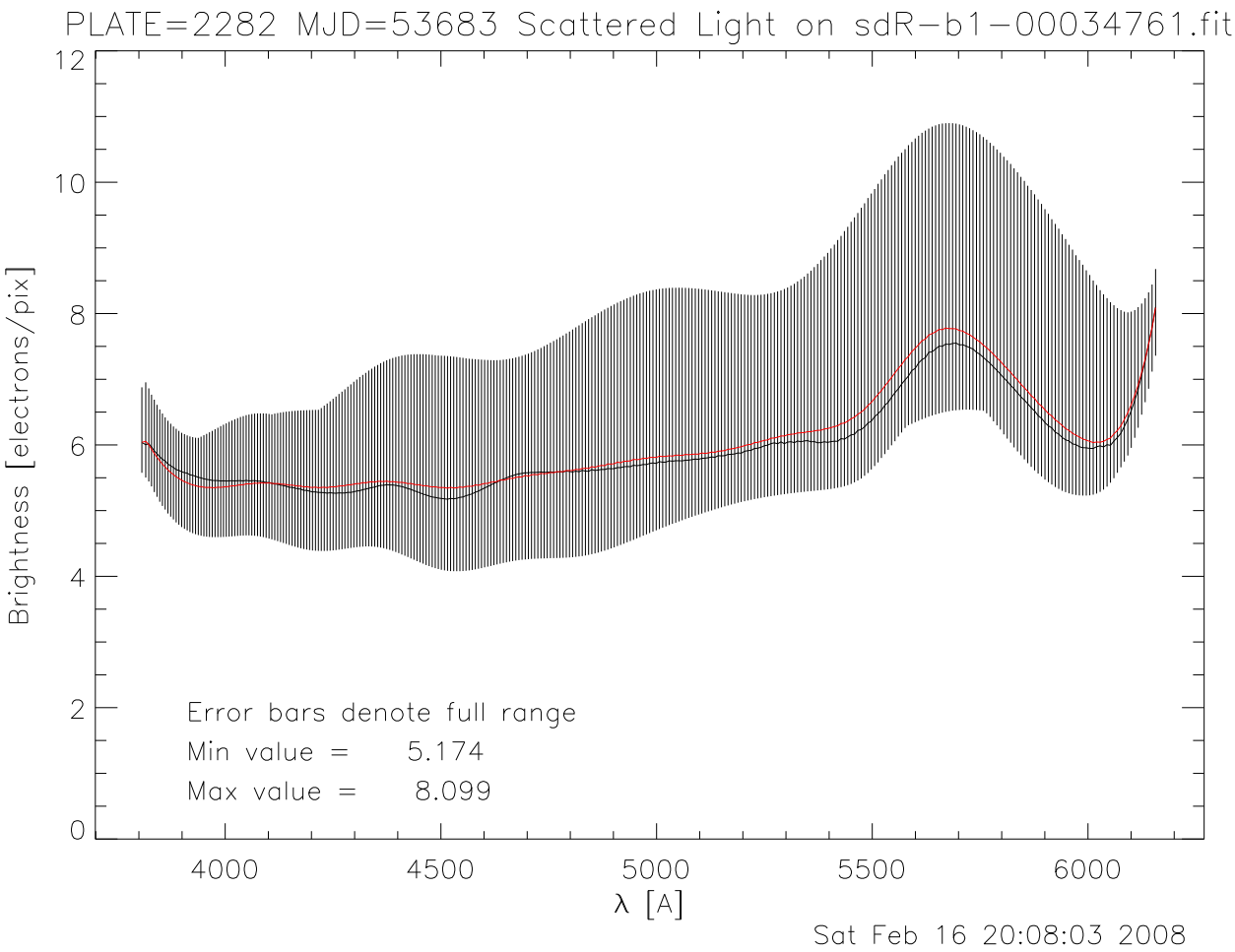

PLATE=2282 MJD=53683 sdR-b1-00034760.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.78 %
Fiber number
Focal Distance [mm]
Airmass

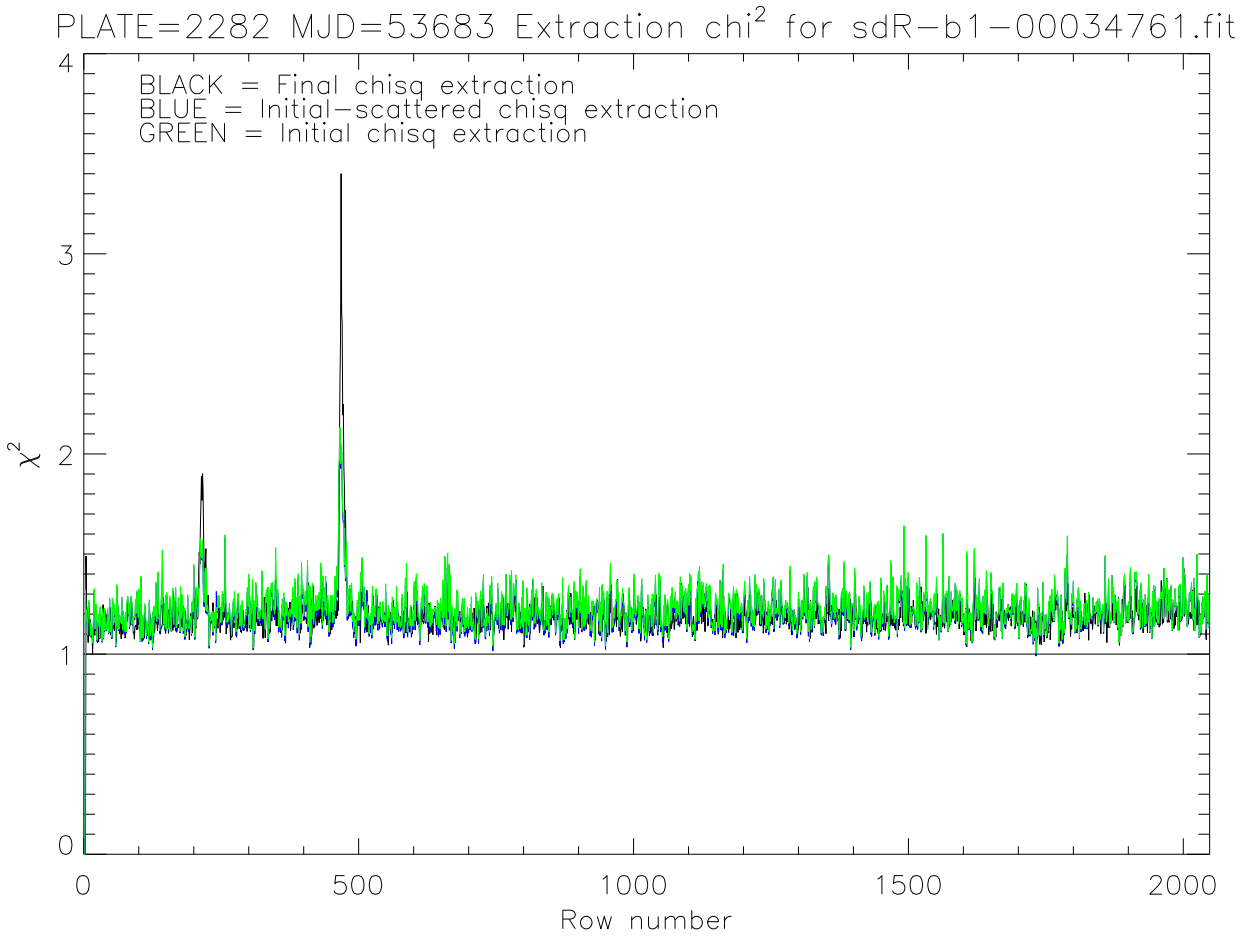

PLATE=2282 MJD=53683 Fiber−Flats for sdR−b1−00034758.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.362
Max value = 1.199
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 20:03:59 2008

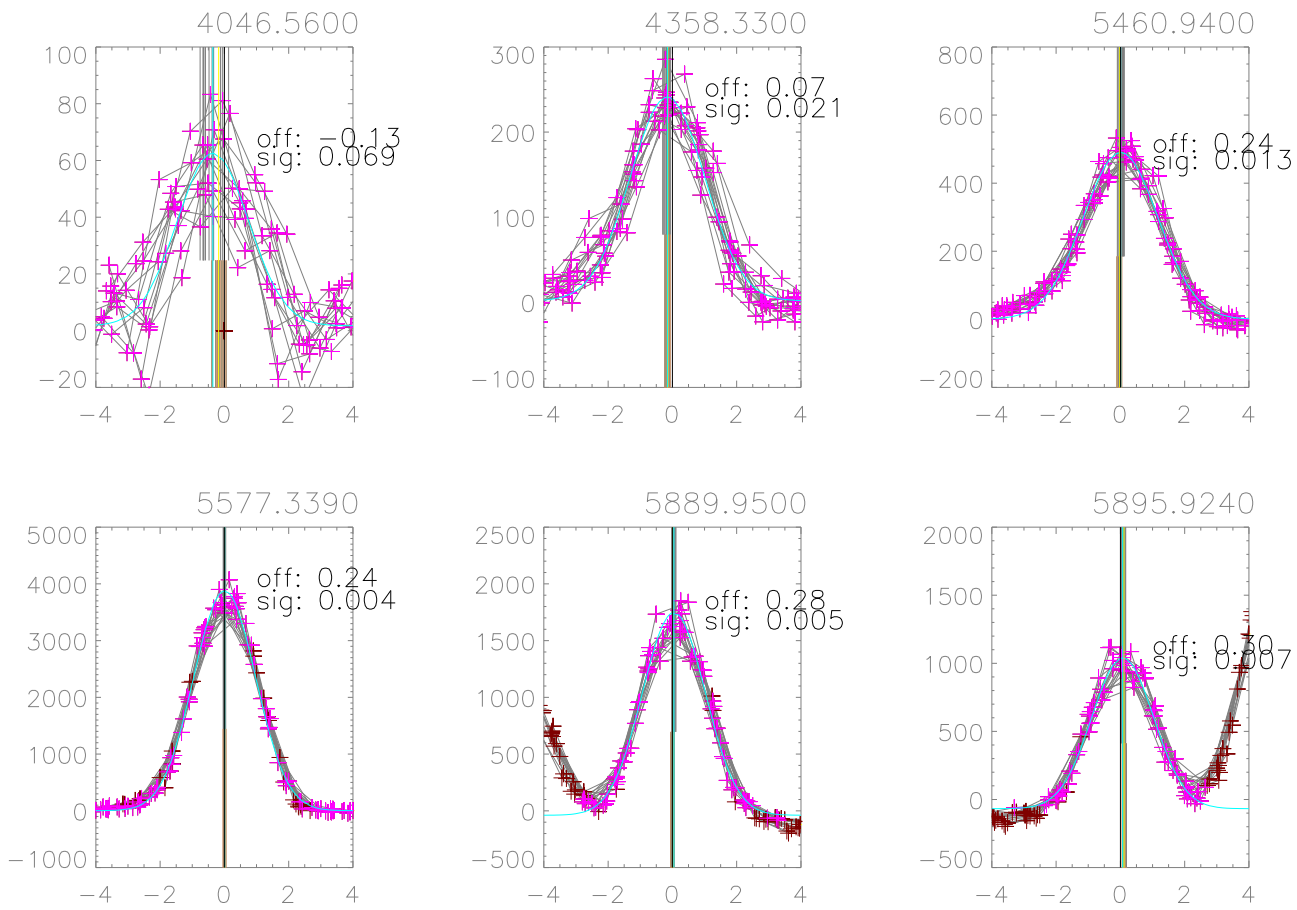

PLATE=2282 MJD=53683 Scattered Light before halo removal on sdR−b1−00034761.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
7.8
10.4

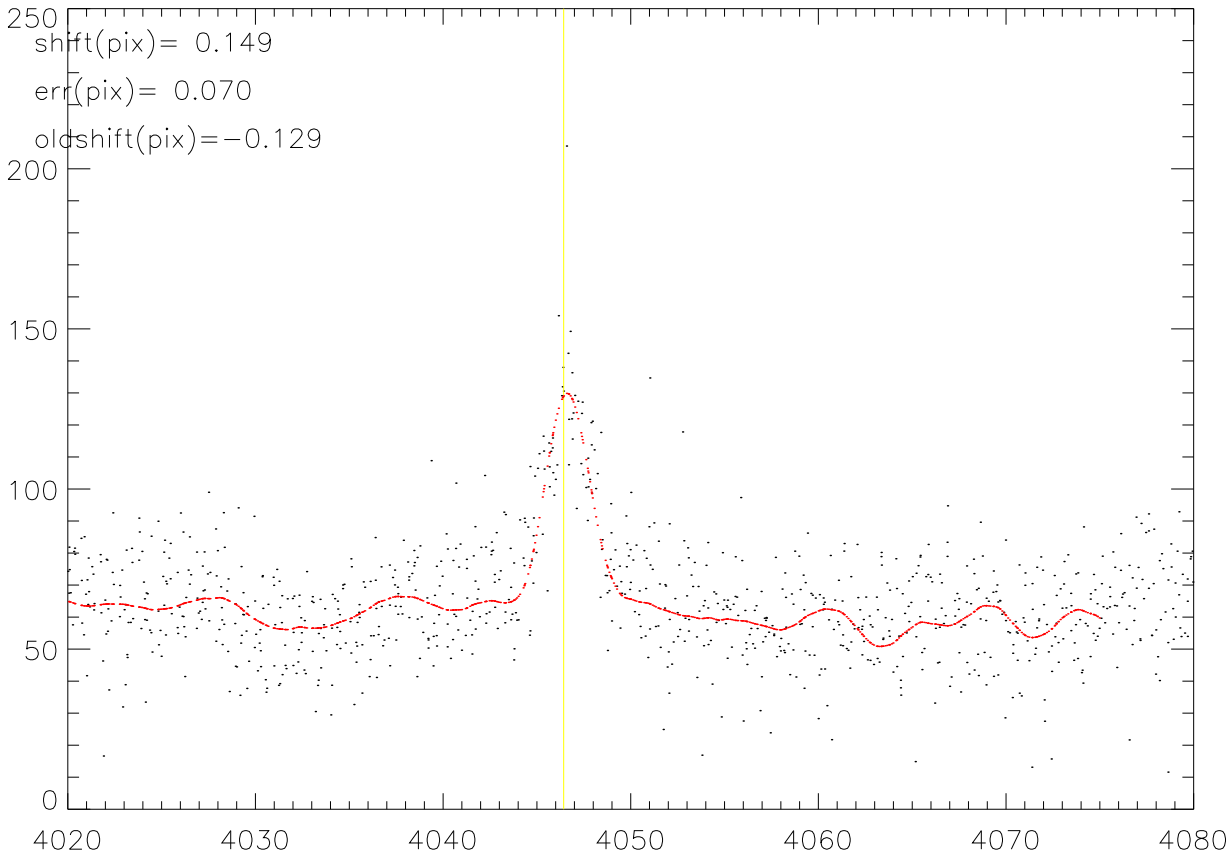

PLATE=2282 MJD=53683 Scattered Light before halo removal on sdR-b1-00034761.f
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 7.794
Max value = 12.413
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 20:04:56 2008

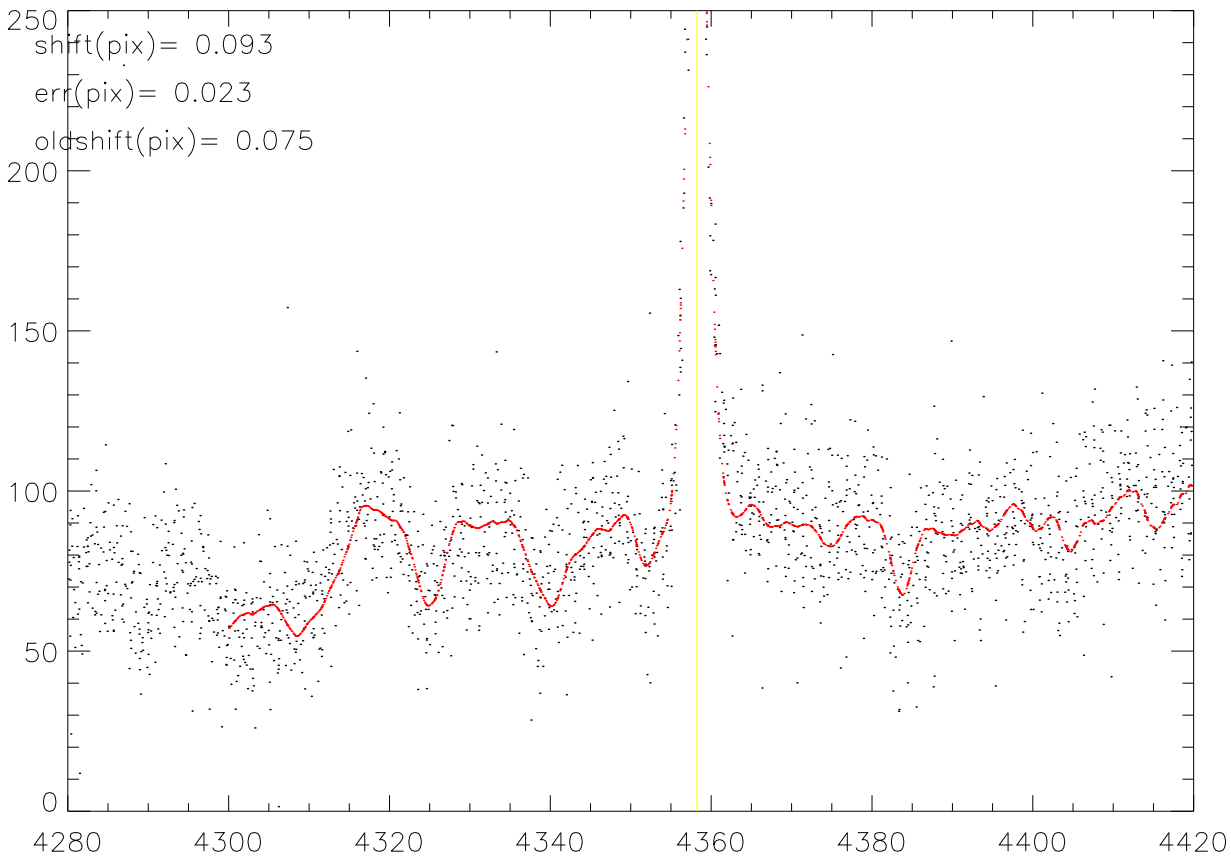

PLATE=2282 MJD=53683 Scattered Light on sdR-b1-00034761.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
4.7
6.2
7.6

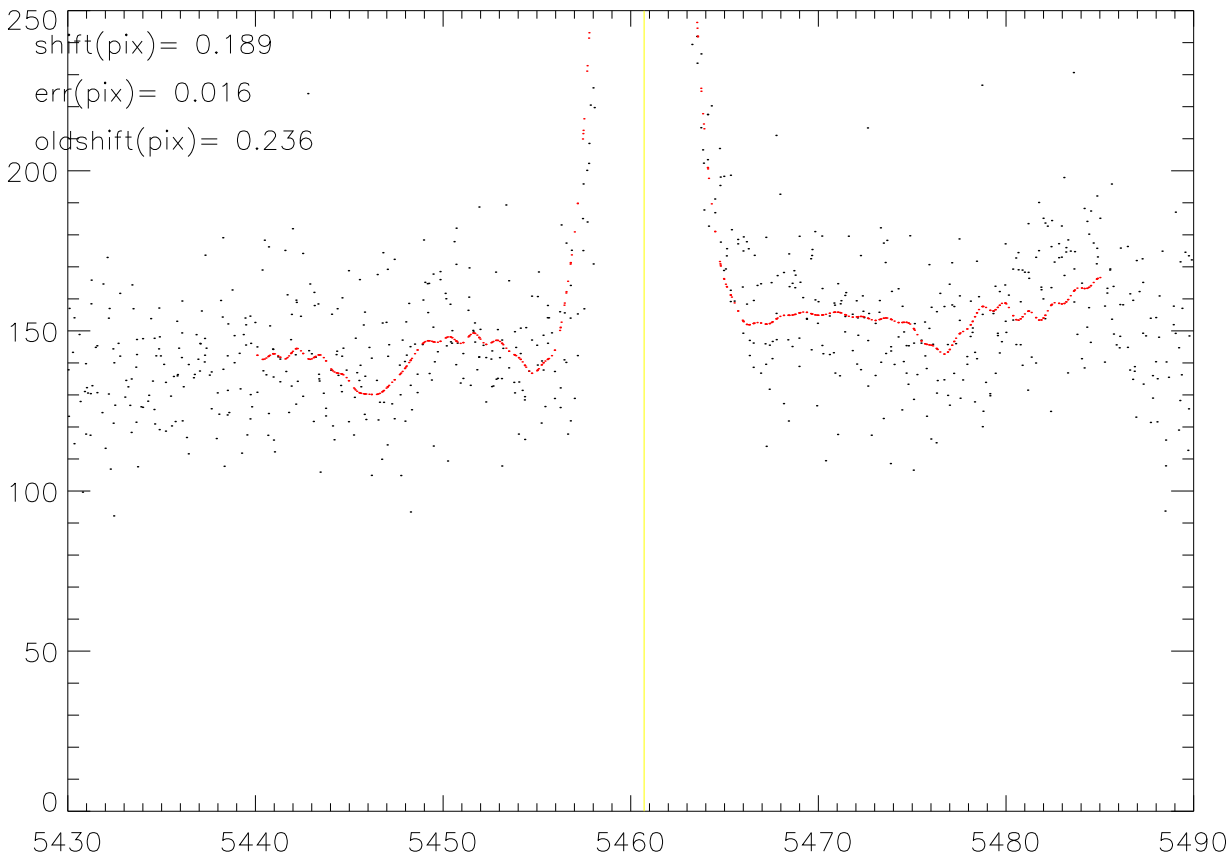

PLATE=2282 MJD=53683 Scattered Light on sdR-b1-00034761.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.174
Max value = 8.099
Sat Feb 16 20:08:03 2008

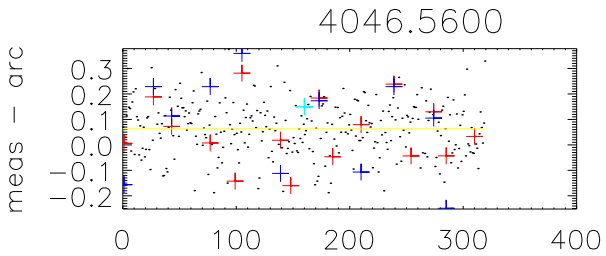

PLATE=2282 MJD=53683 Extraction chi^2 for sdR−b1−00034761.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

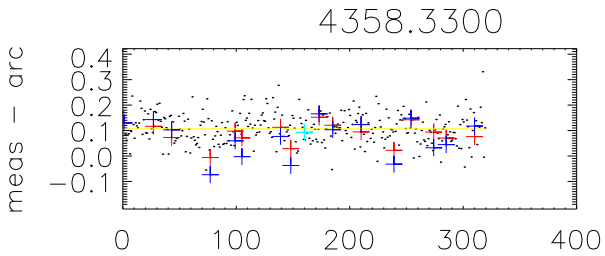

4046.5600
off: −0.13
sig: 0.069
4358.3300
off: 0.07
sig: 0.021
5460.9400
off: 0.24
sig: 0.013
5577.3390
off: 0.24
sig: 0.004
5889.9500
off: 0.28
sig: 0.005
5895.9240
off: 0.30
sig: 0.007

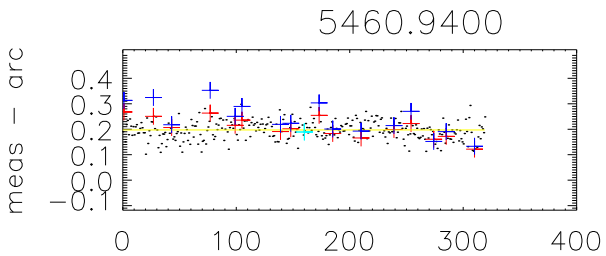

shift(pix)= 0.149
err(pix)= 0.070
oldshift(pix)=−0.129
250
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

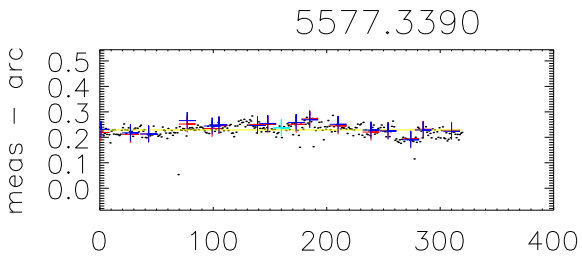

shift(pix)= 0.093
err(pix)= 0.023
oldshift(pix)= 0.075
250
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

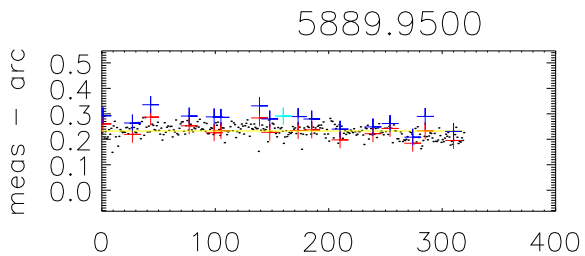

shift(pix)= 0.189
err(pix)= 0.016
oldshift(pix)= 0.236
250
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

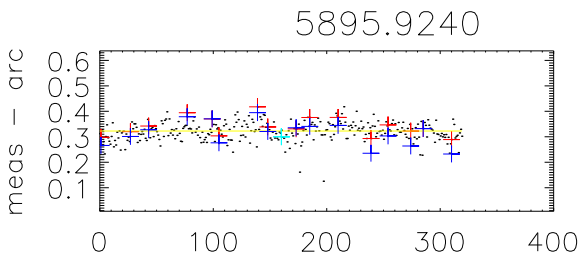

4046.5600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

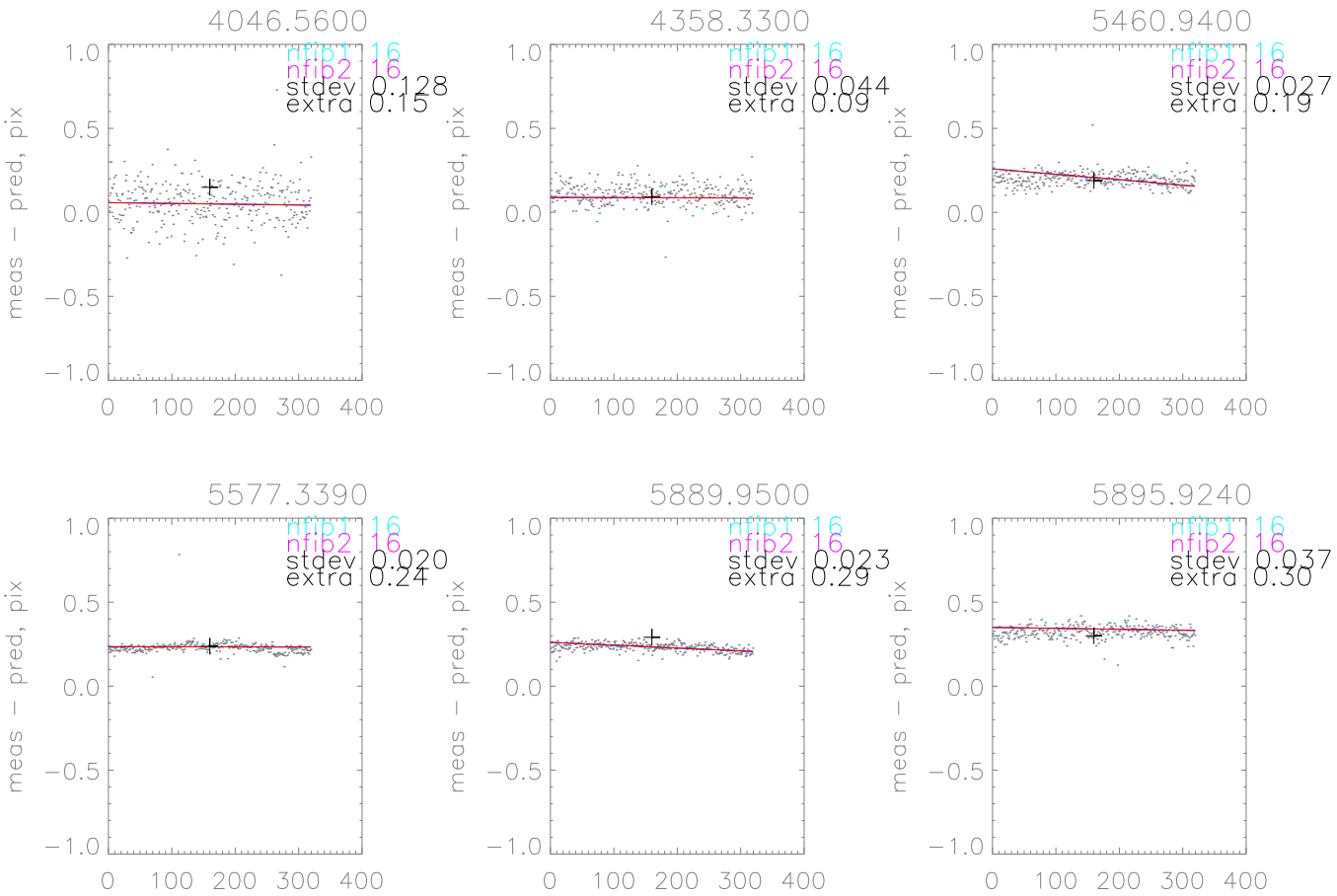

4358.3300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

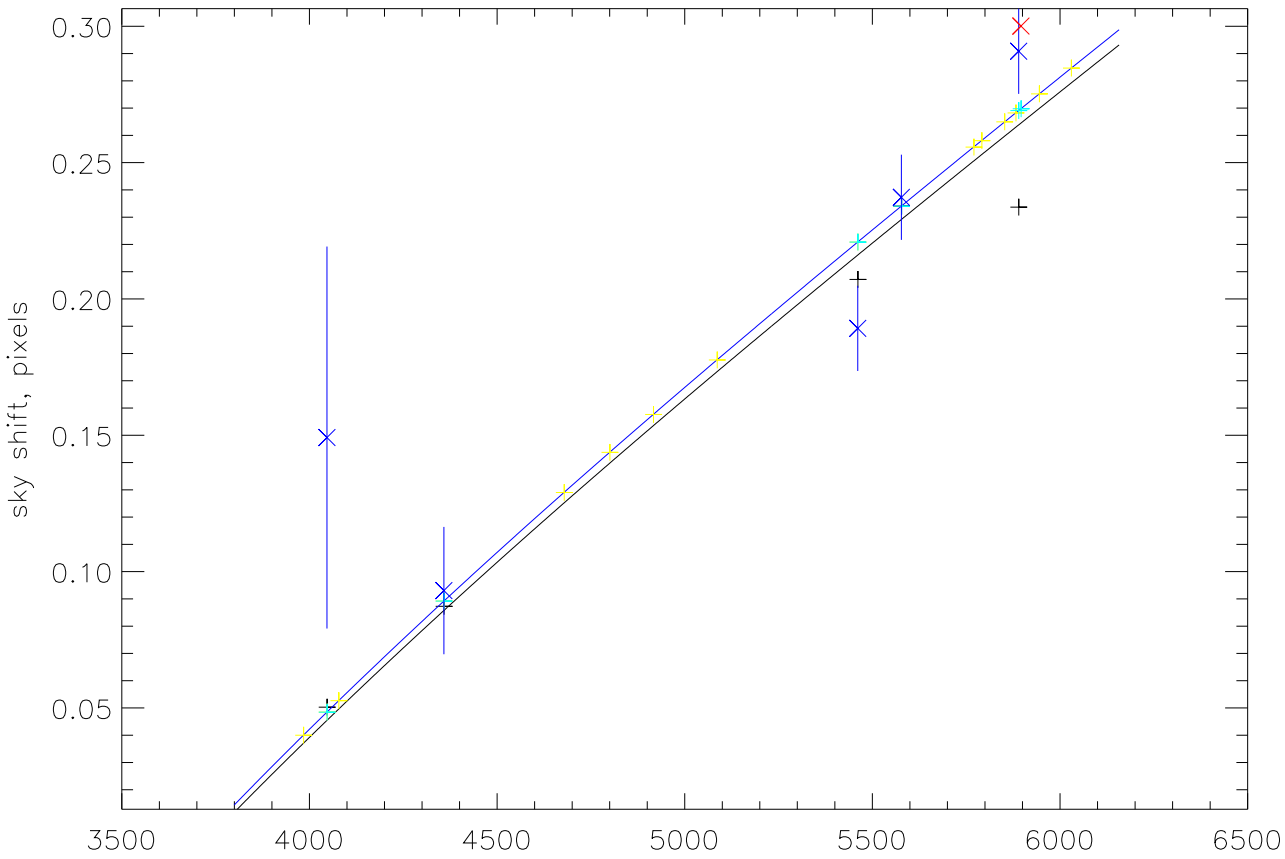

5460.9400
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

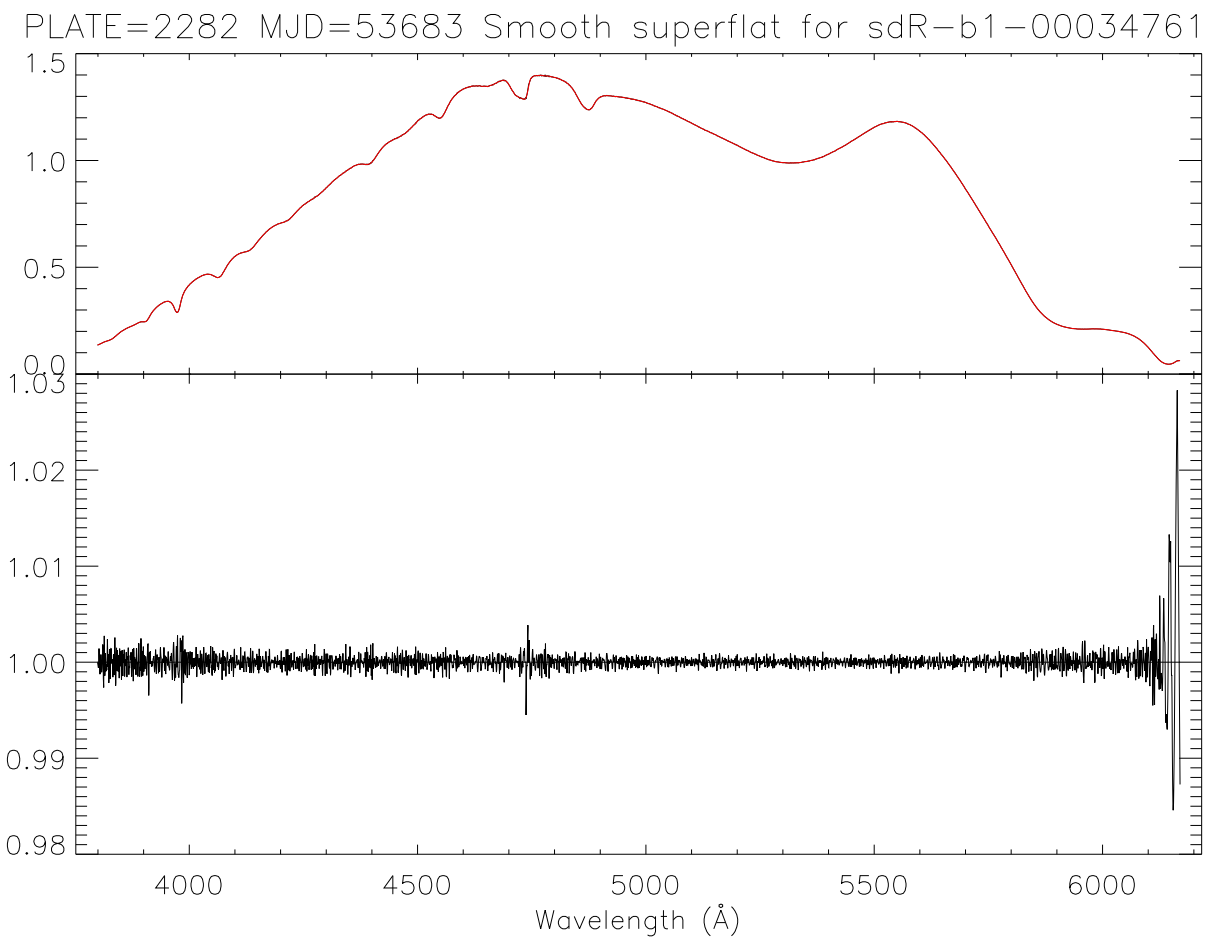

5889.9500
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

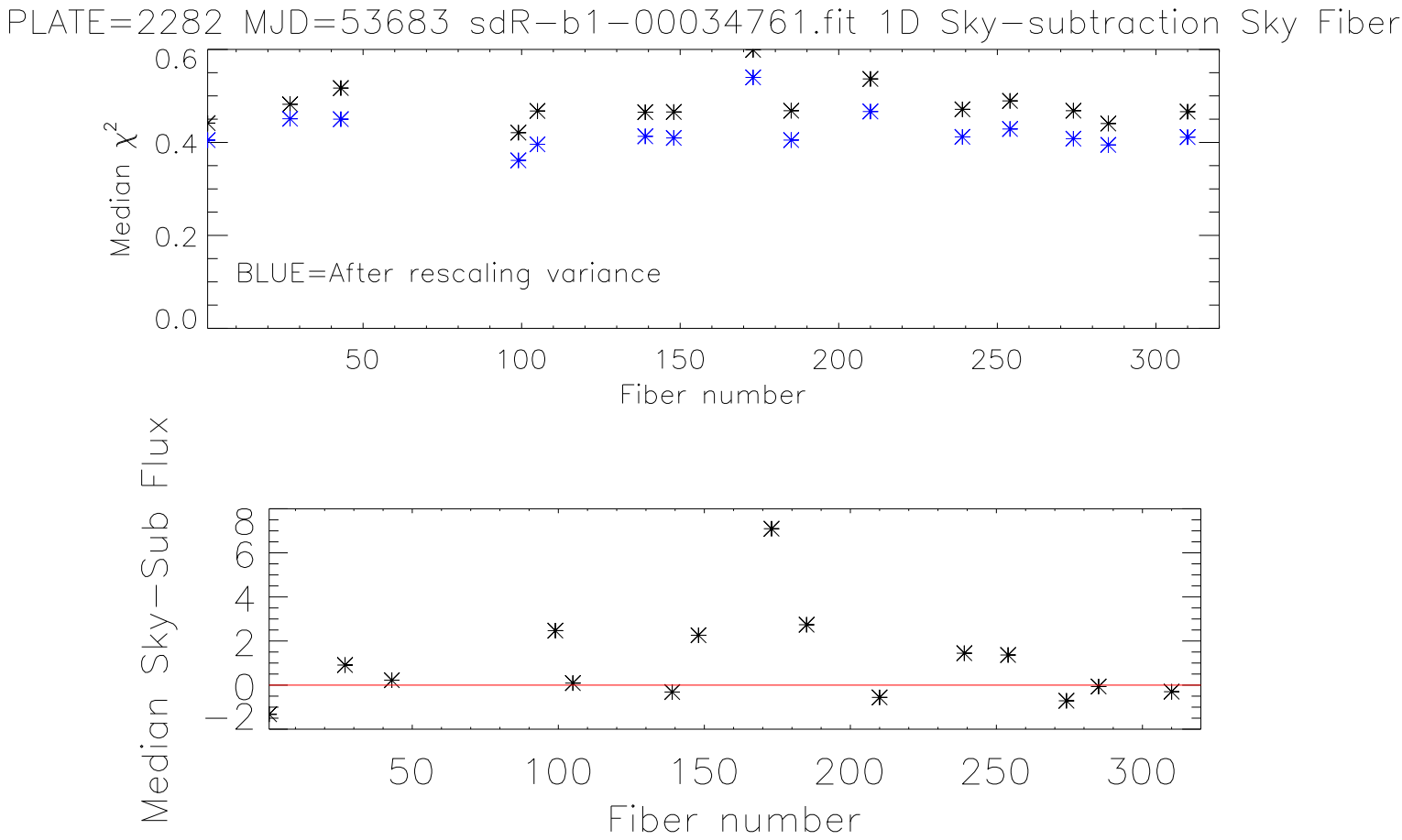

5895.9240
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

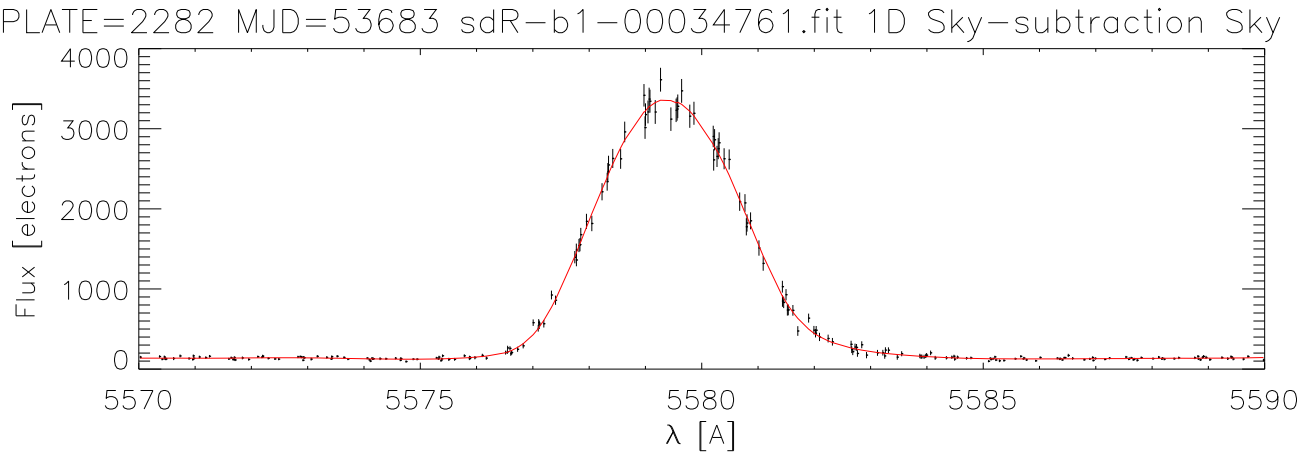

4046.5600
nfib1 16
nfib2 16
stdev 0.128
extra 0.15
4358.3300
nfib1 16
nfib2 16
stdev 0.044
extra 0.09
5460.9400
nfib1 16
nfib2 16
stdev 0.027
extra 0.19
5577.3390
nfib1 16
nfib2 16
stdev 0.020
extra 0.24
5889.9500
nfib1 16
nfib2 16
stdev 0.023
extra 0.29
5895.9240
nfib1 16
nfib2 16
stdev 0.037
extra 0.30
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

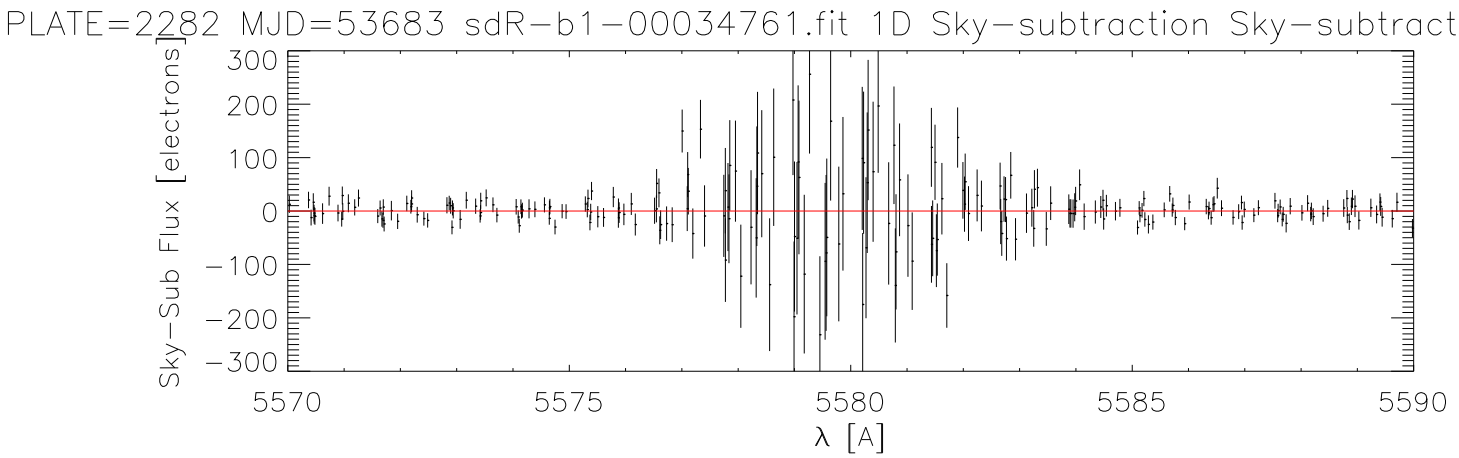

0.30
0.25
0.20
0.15
0.10
0.05
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

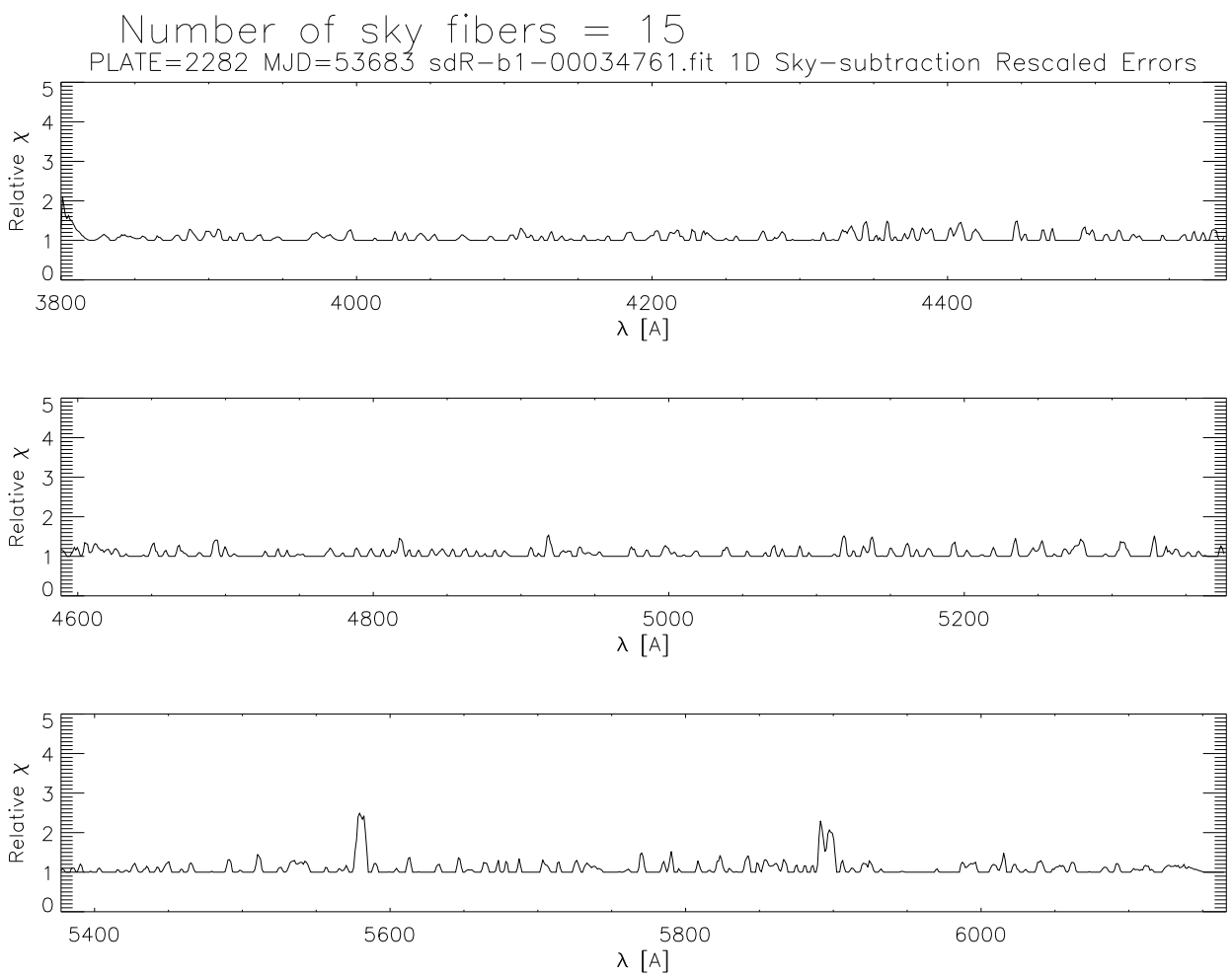
es= 0.0000

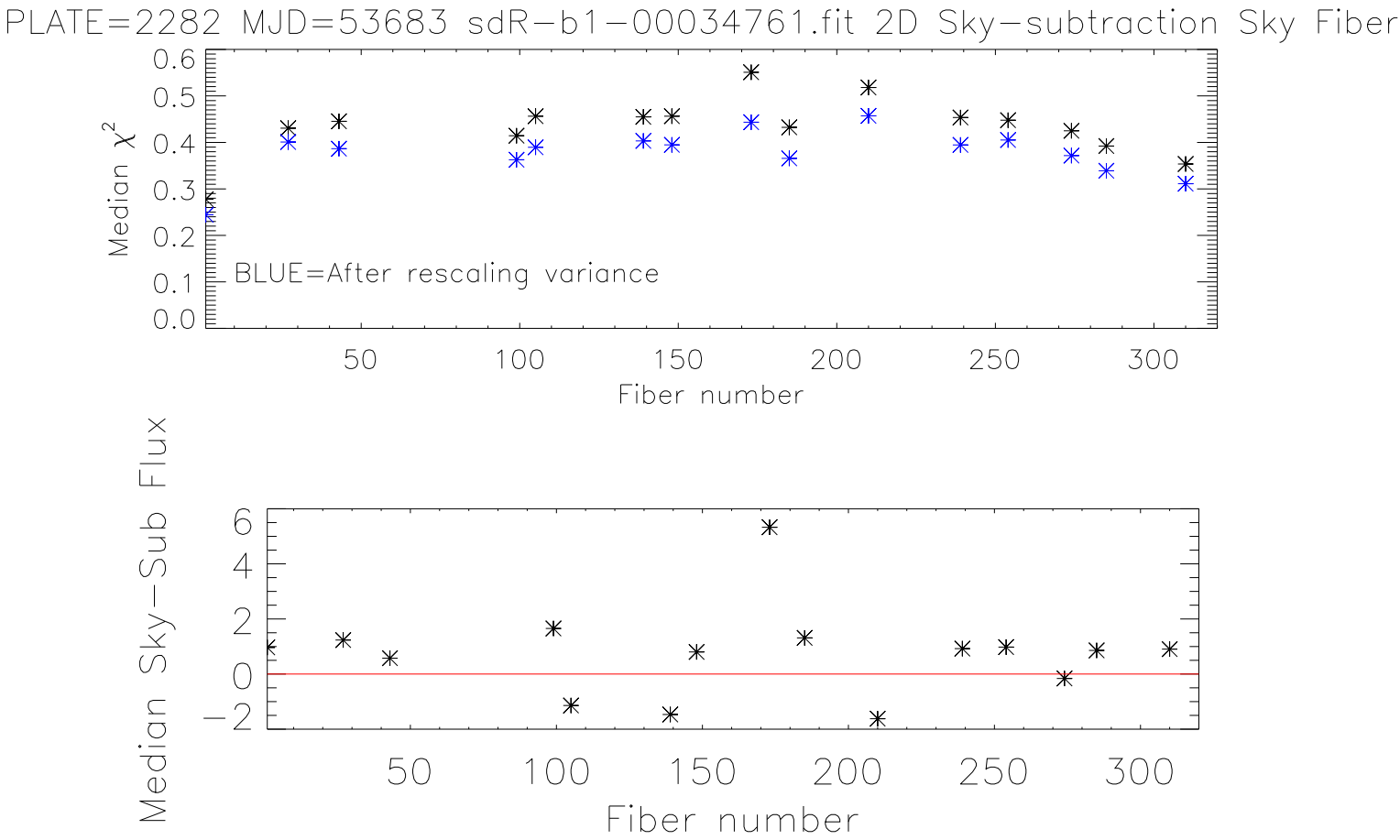

PLATE=2282 MJD=53683 Smooth superflat for sdR-b1-00034761.fit
1.5
1.0
0.5
0.0
1.03
1.02
1.01
1.00
0.99
0.98
4000
4500
5000
5500
6000
Wavelength (Å)

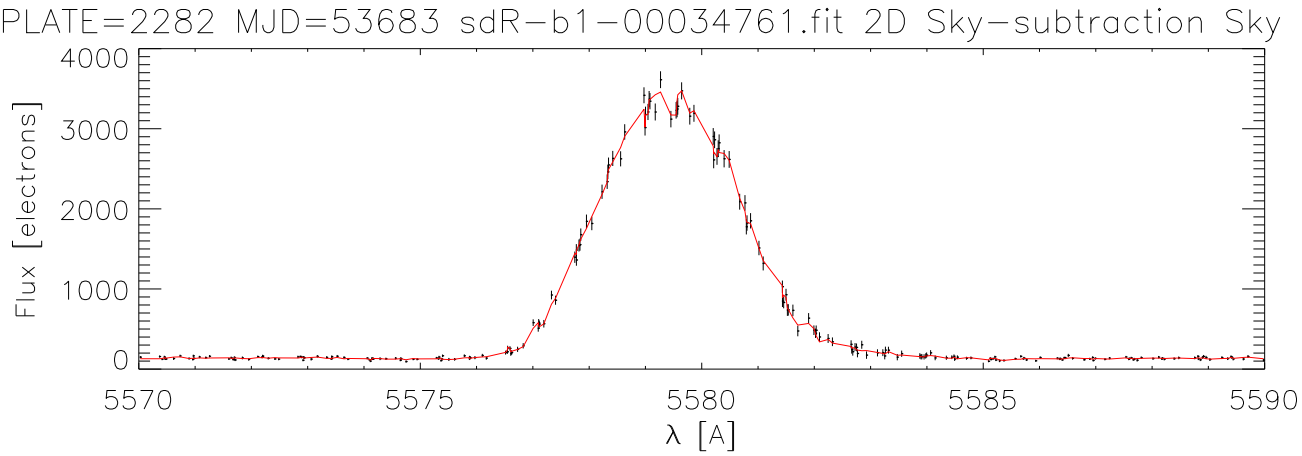

PLATE=2282 MJD=53683 sdR-b1-00034761.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

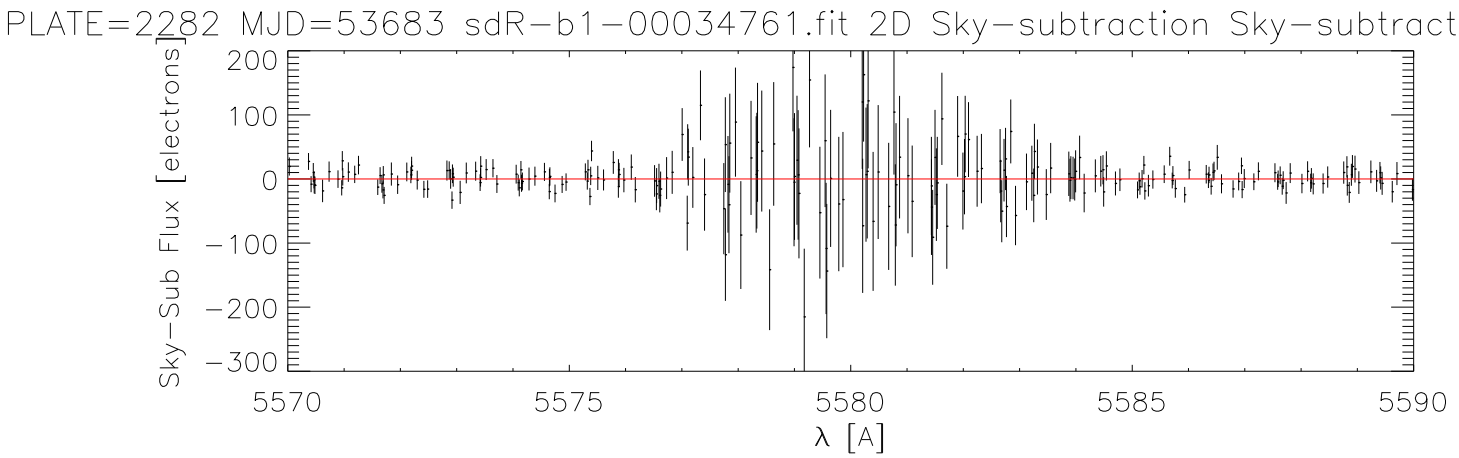

PLATE=2282 MJD=53683 sdR-b1-00034761.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

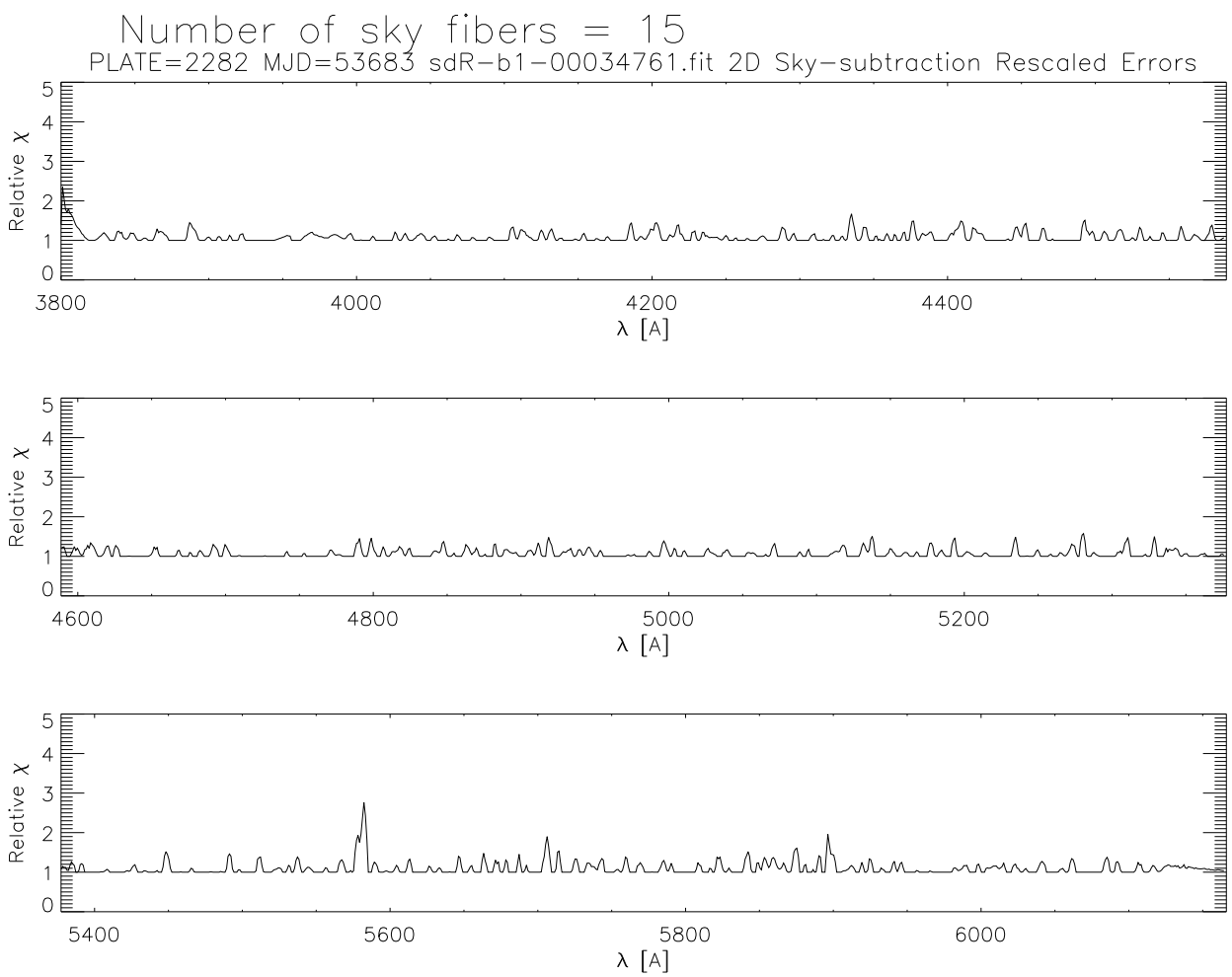

PLATE=2282 MJD=53683 sdR-b1-00034761.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

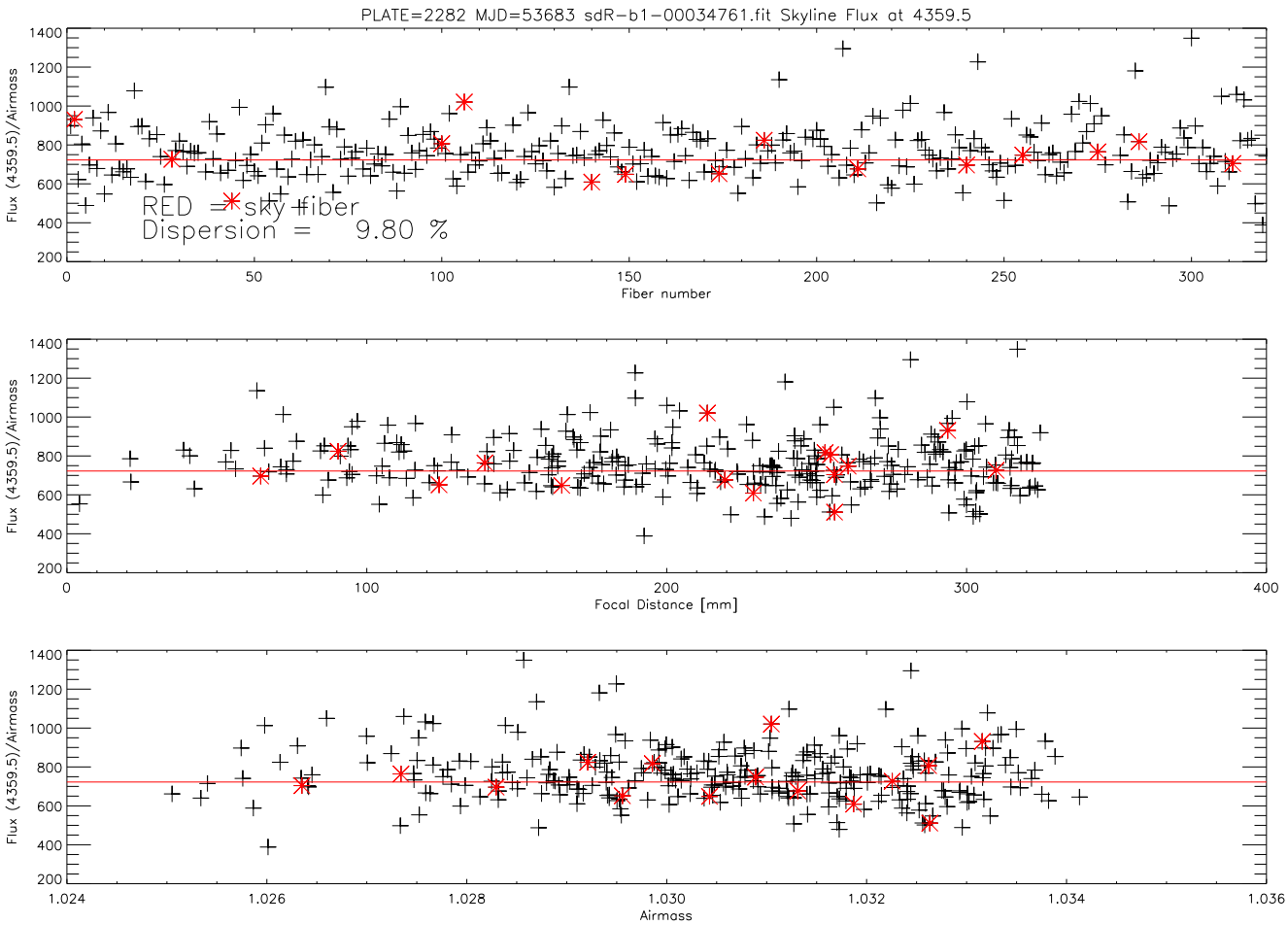

Number of sky fibers = 15
PLATE=2282 MJD=53683 sdR-b1-00034761.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

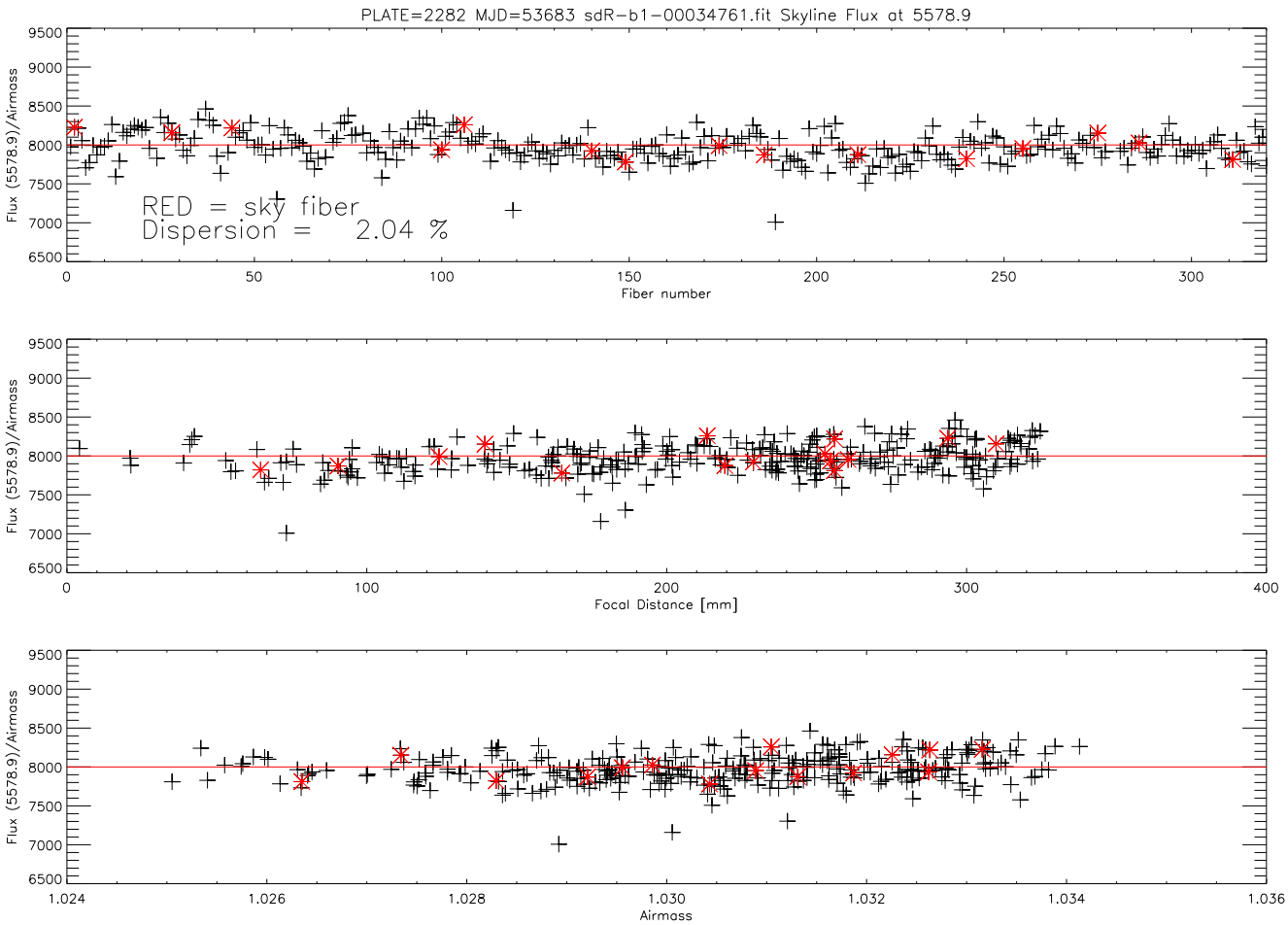

PLATE=2282 MJD=53683 sdR-b1-00034761.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

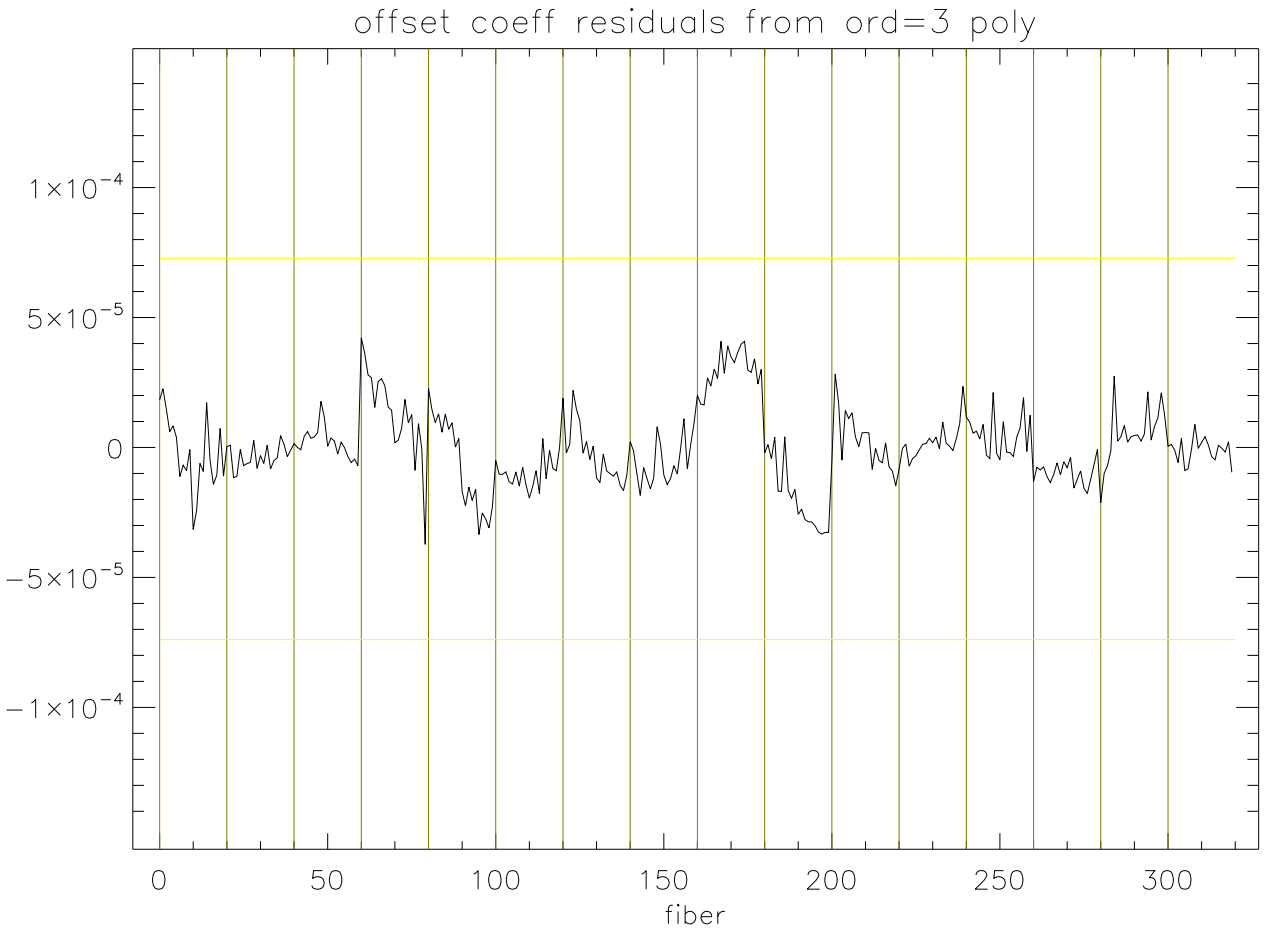

PLATE=2282 MJD=53683 sdR-b1-00034761.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

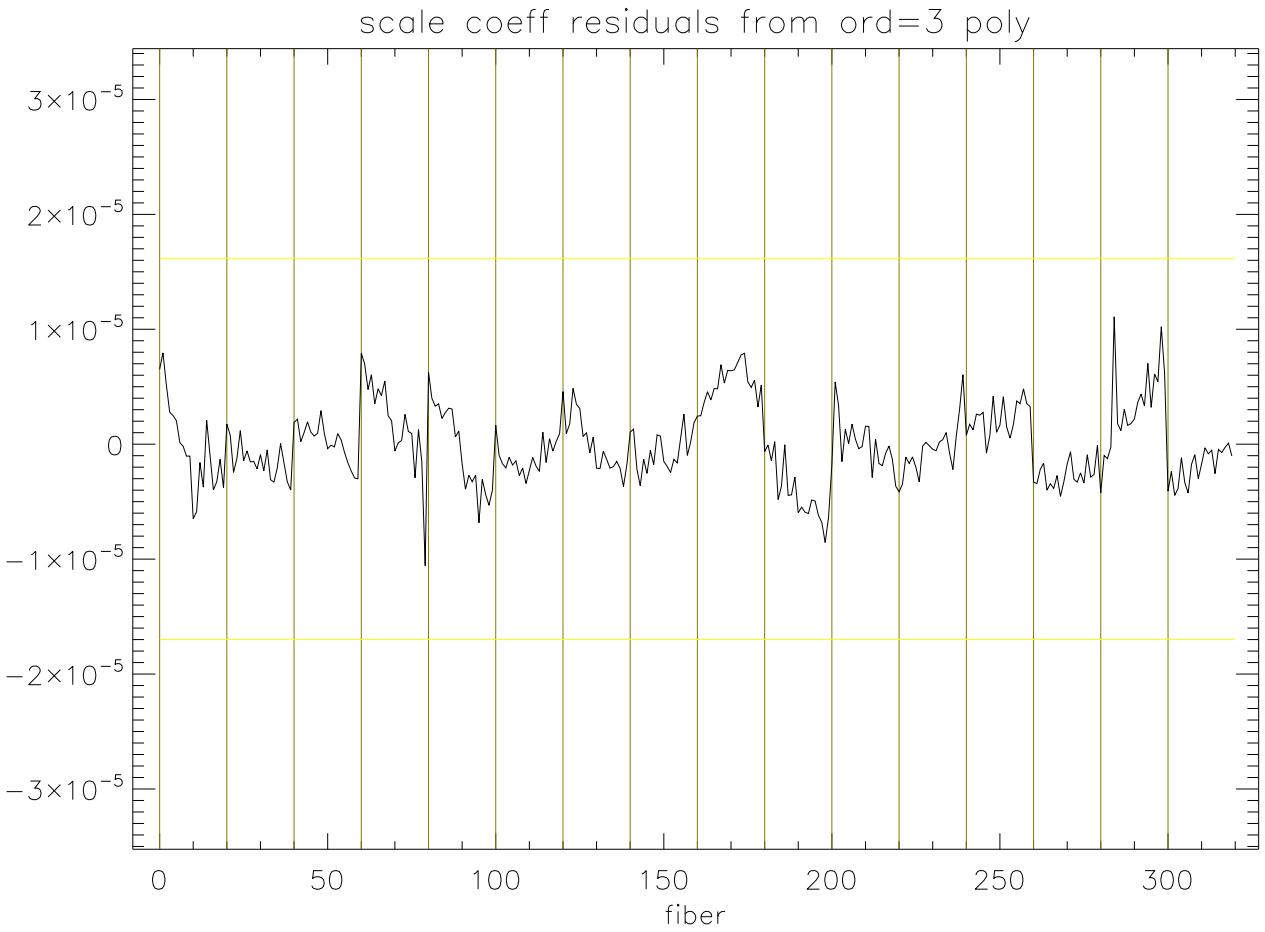

PLATE=2282 MJD=53683 sdR-b1-00034761.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

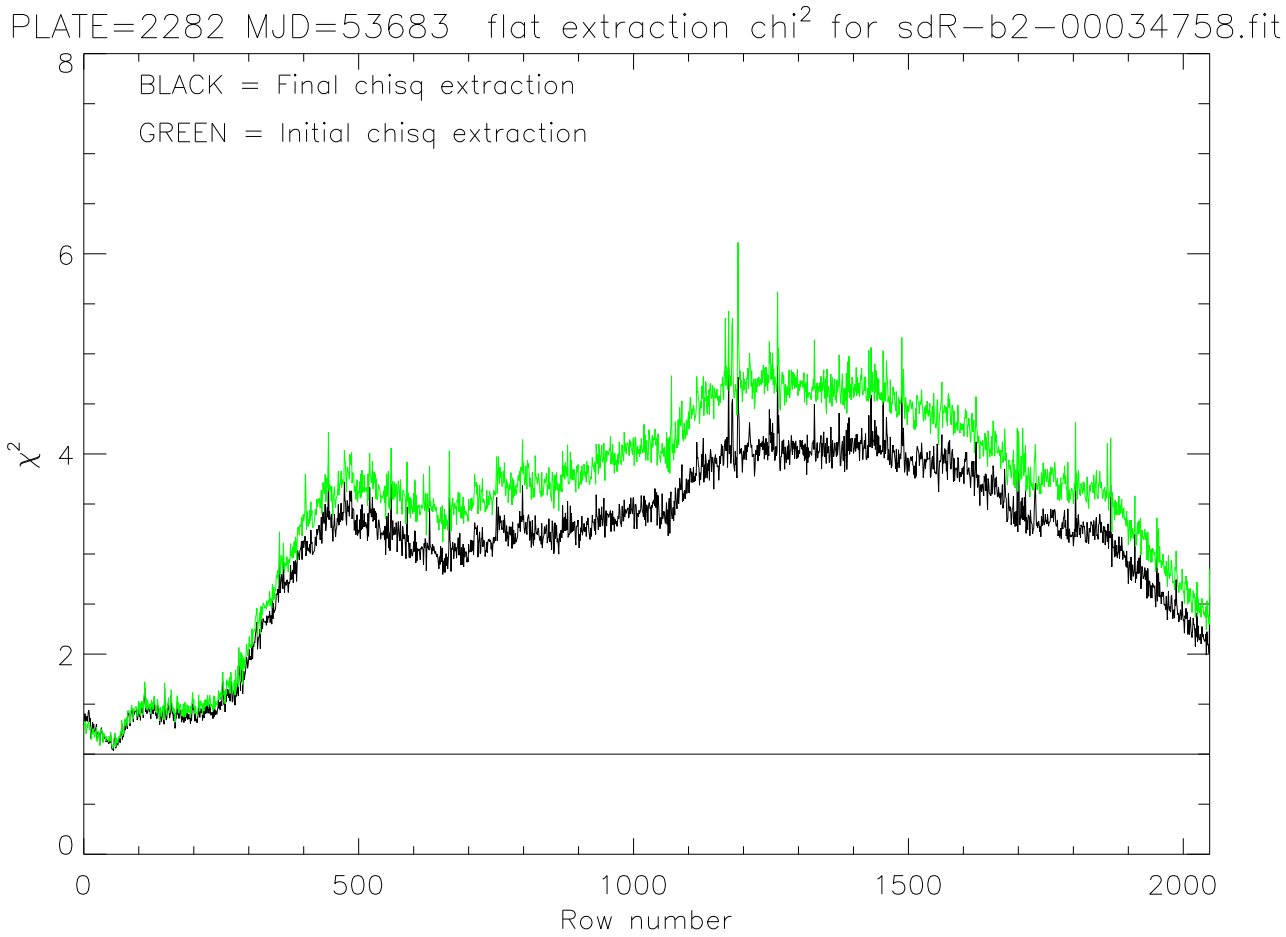

Number of sky fibers = 15
PLATE=2282 MJD=53683 sdR-b1-00034761.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

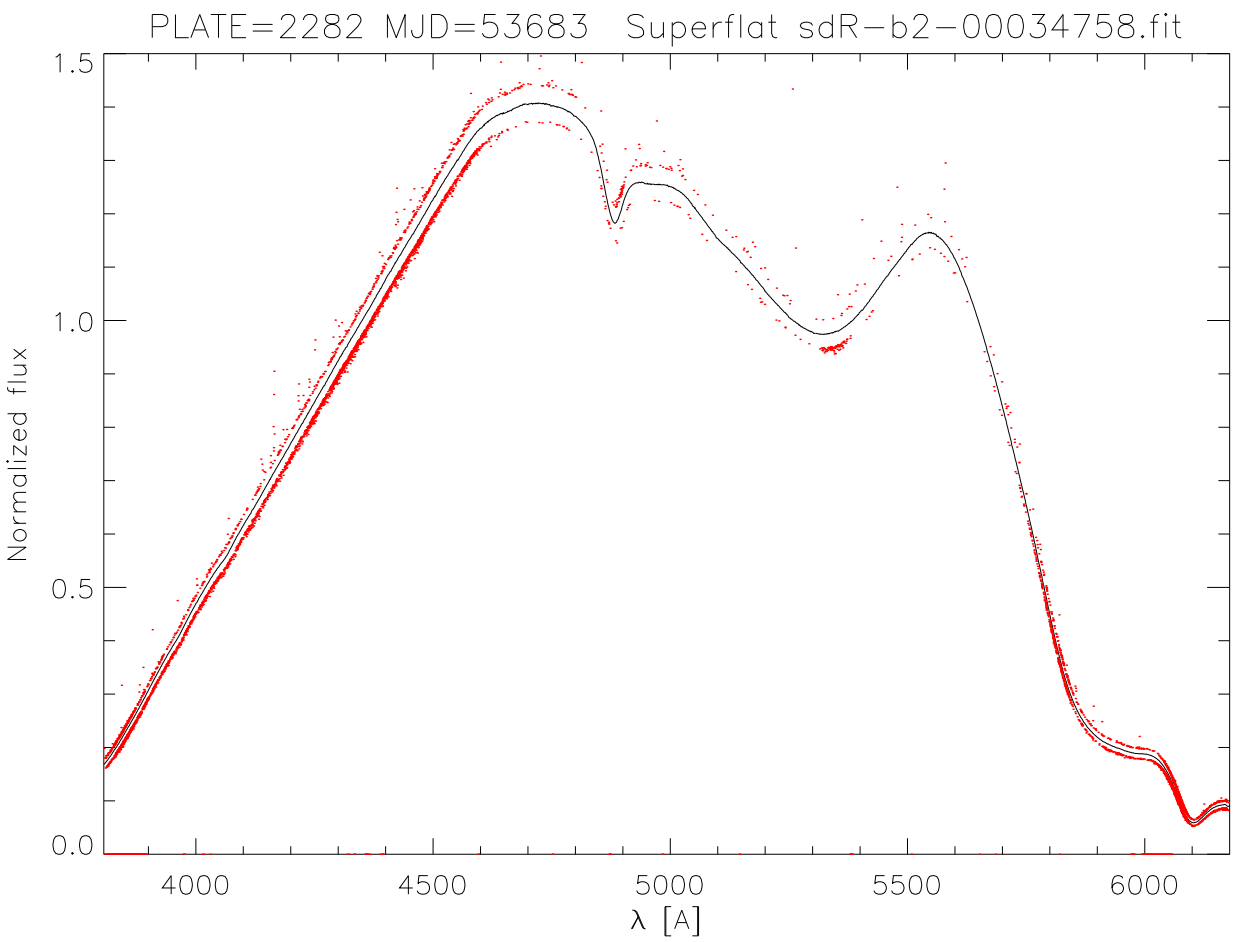

PLATE=2282 MJD=53683 sdR-b1-00034761.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 9.80 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

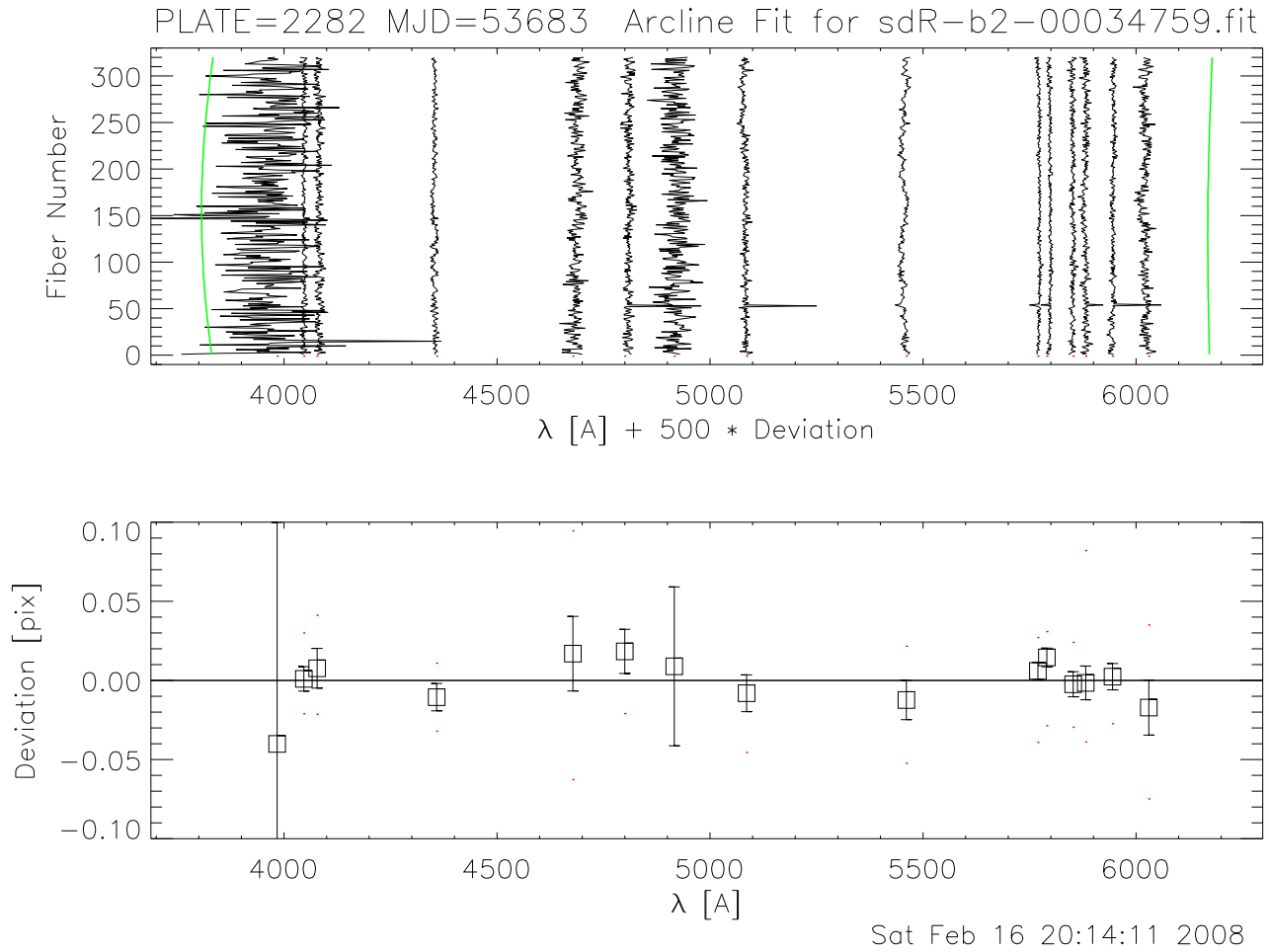

PLATE=2282 MJD=53683 sdR-b1-00034761.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.04 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

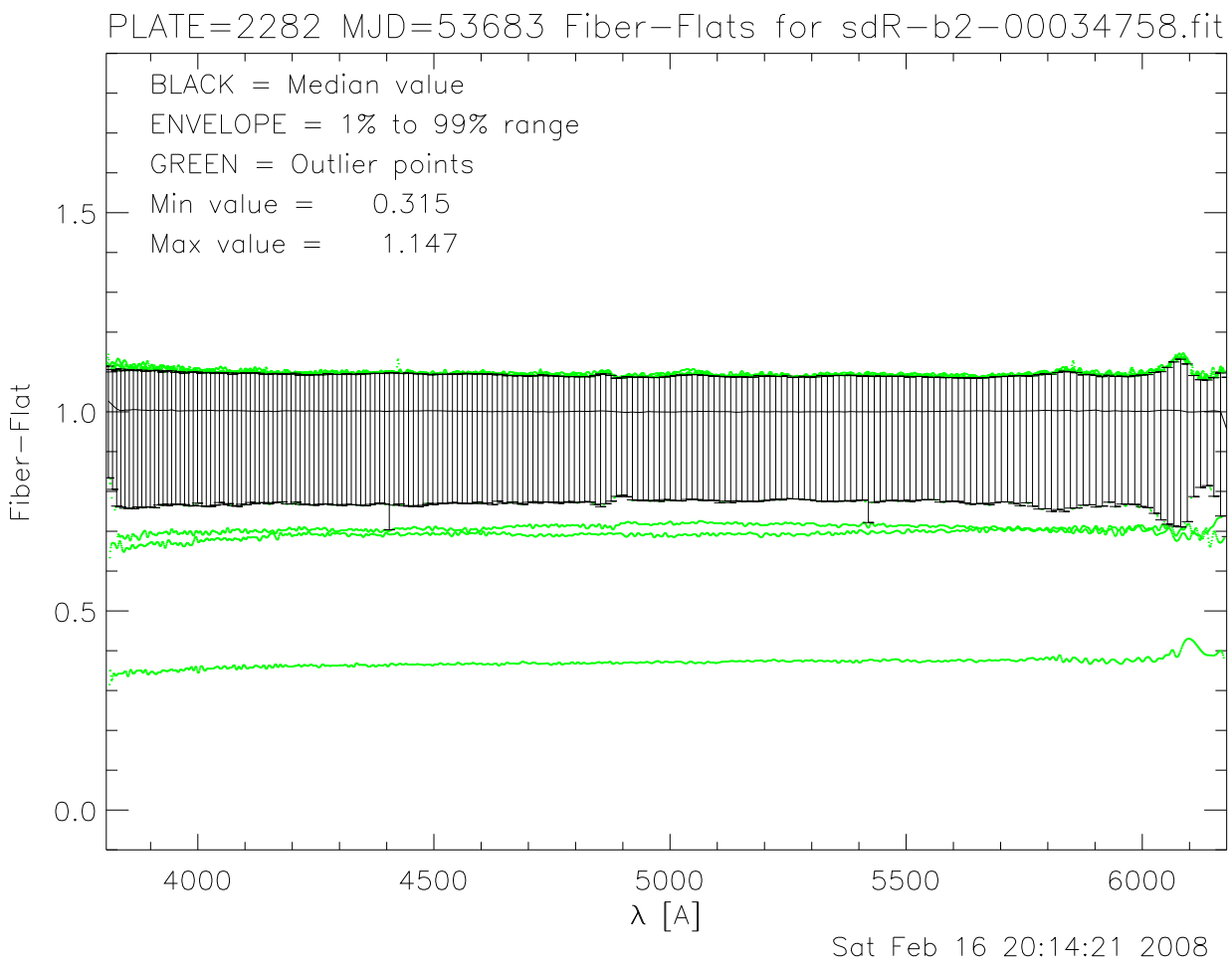

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

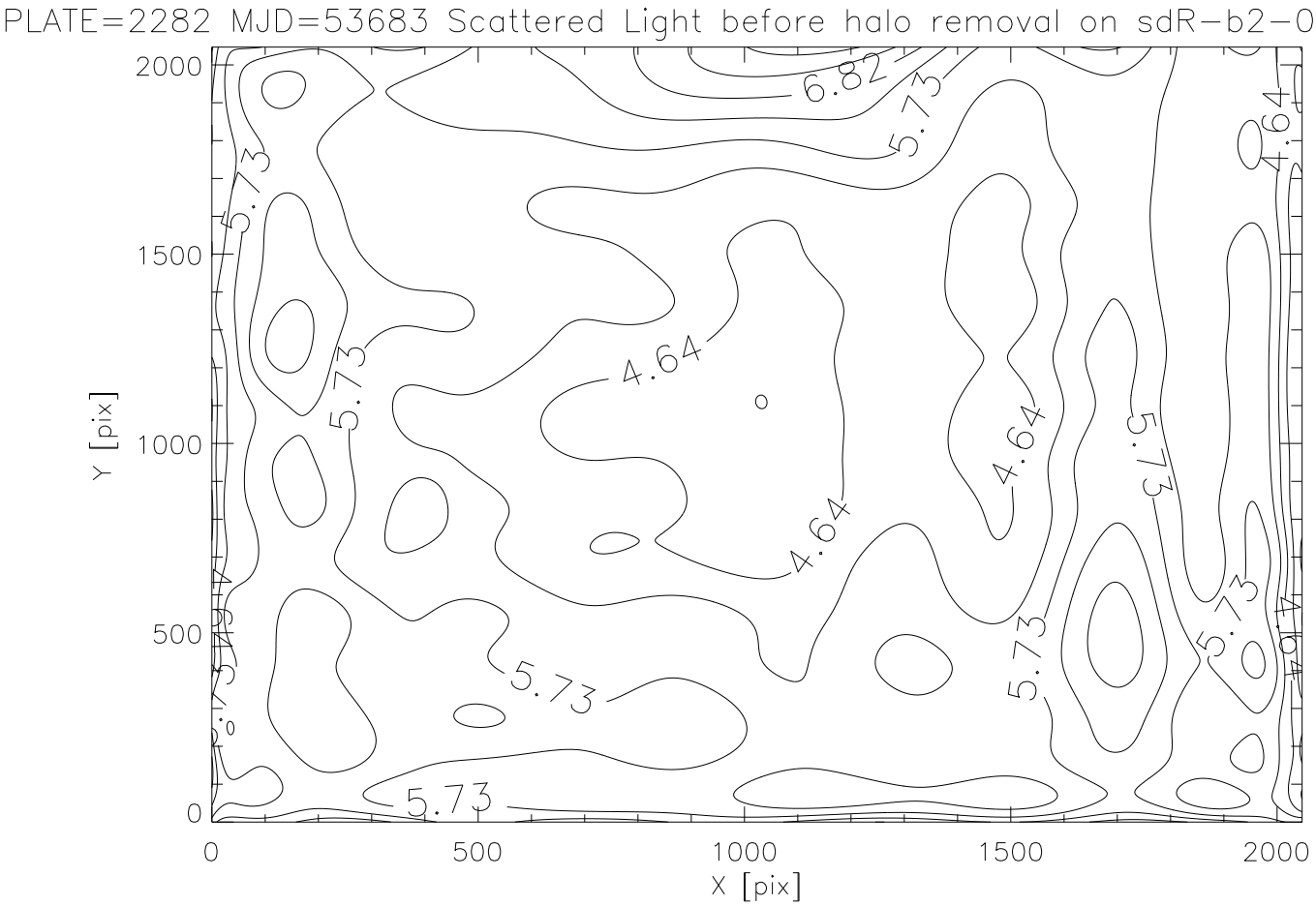

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

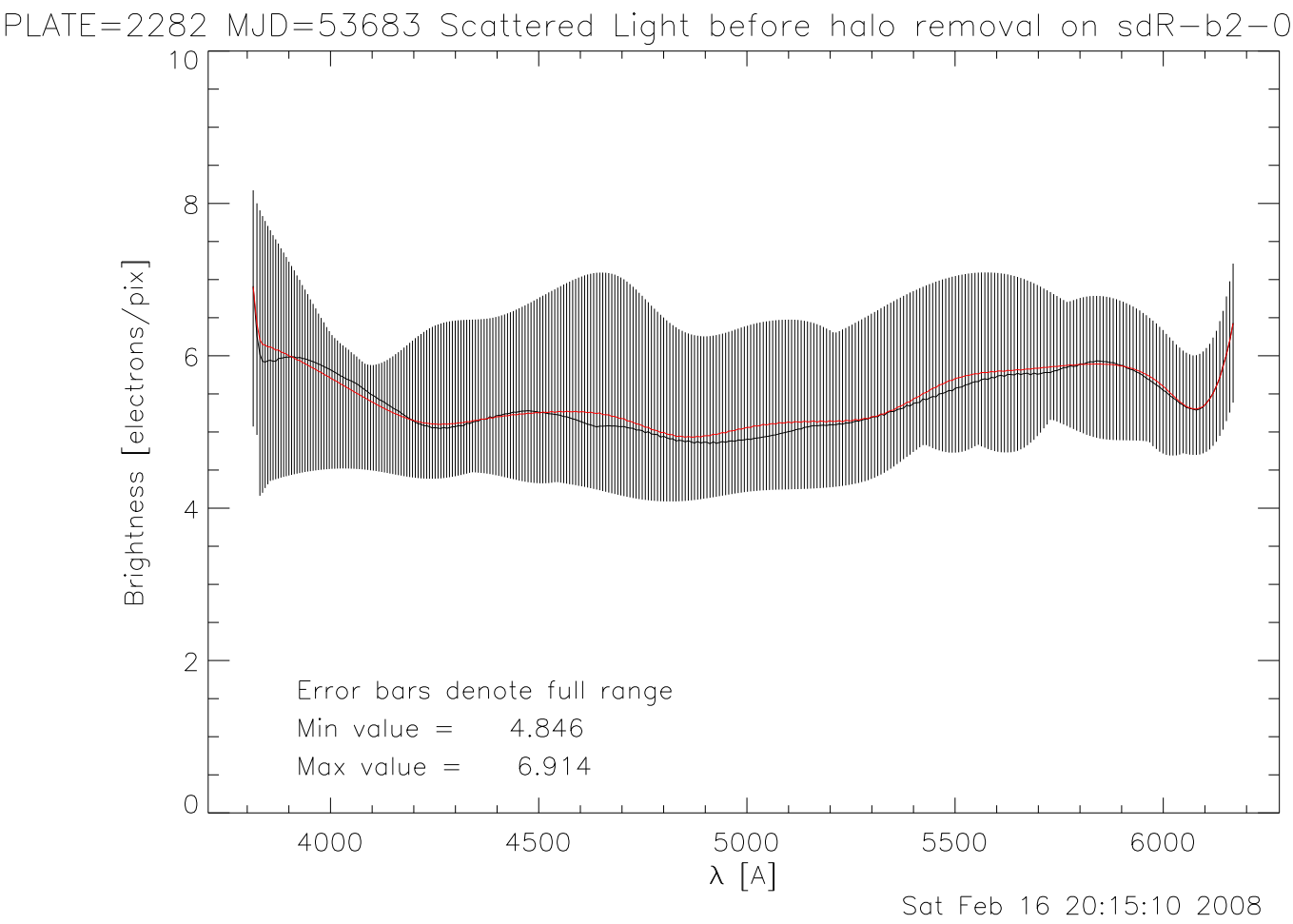

PLATE=2282 MJD=53683 flat extraction chi^2 for sdR−b2−00034758.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

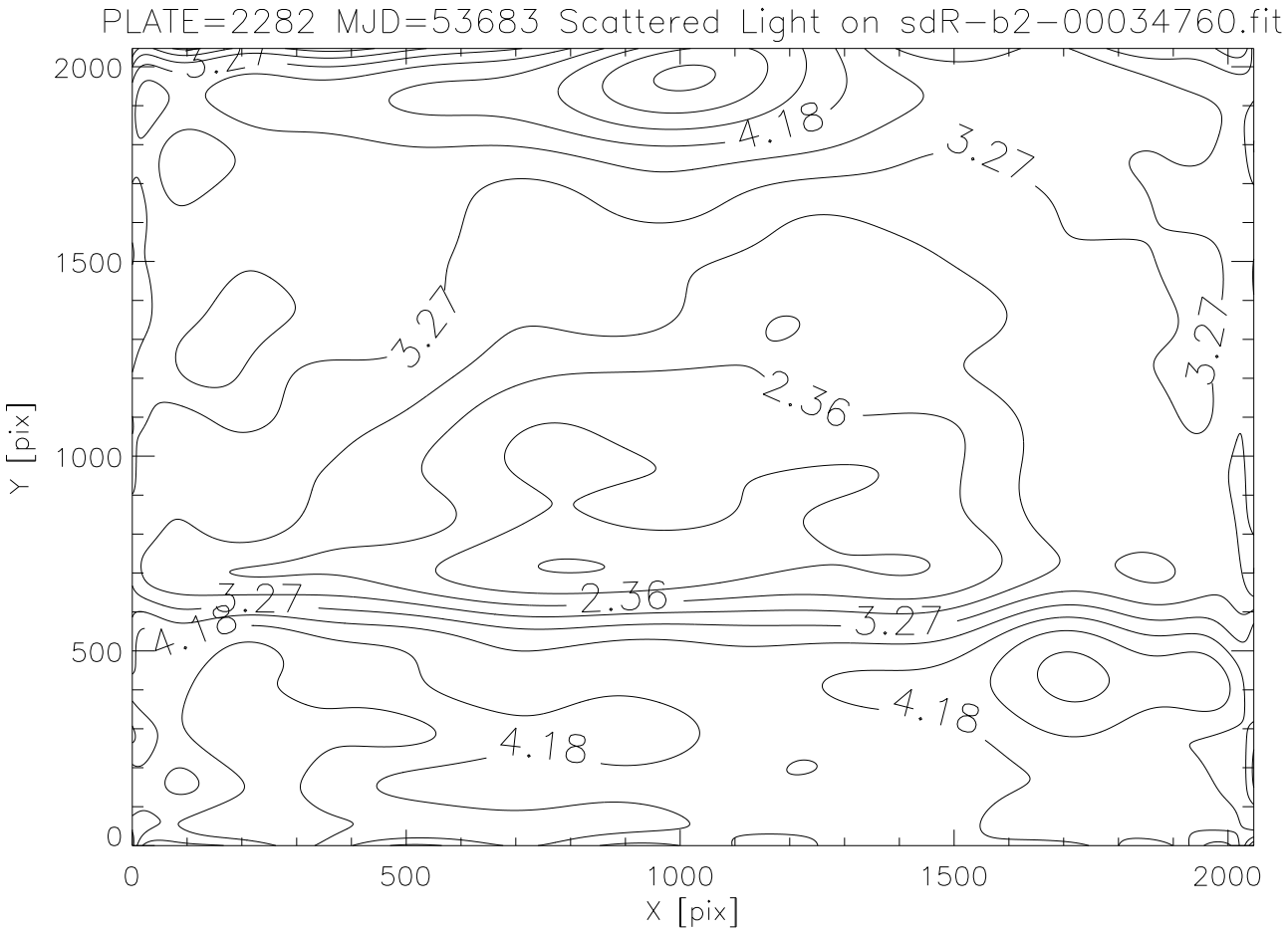

PLATE=2282 MJD=53683 Superflat sdR-b2-00034758.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

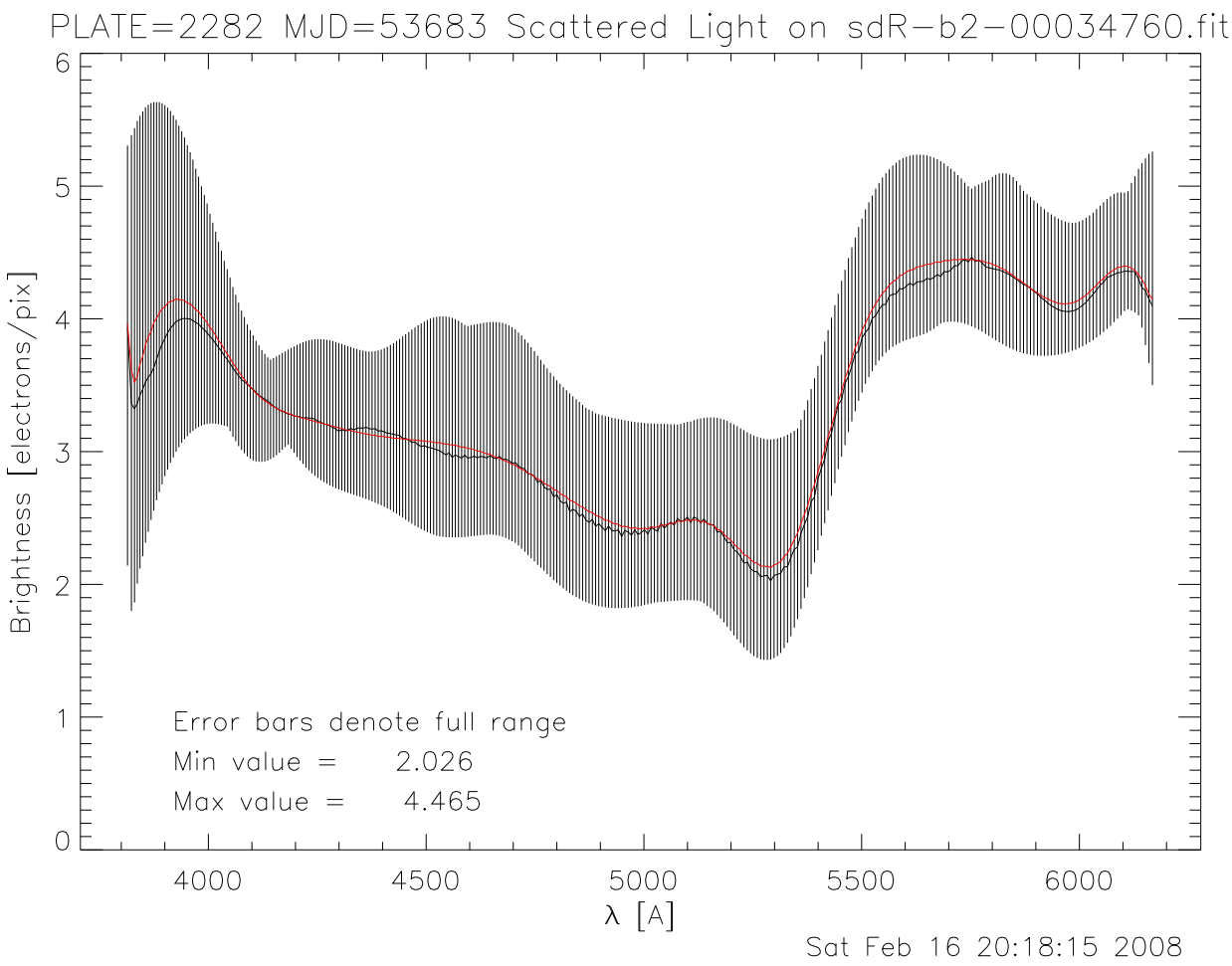

PLATE=2282 MJD=53683 Arcline Fit for sdR-b2-00034759.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 20:14:11 2008


PLATE=2282 MJD=53683 Fiber-Flats for sdR-b2-00034758.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.315
Max value = 1.147
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sat Feb 16 20:14:21 2008


PLATE=2282 MJD=53683 Scattered Light before halo removal on sdR−b2−00034760.f
6.82
5.73
4.64
5.73
4.64
5.73
4.64
5.73
5.73
5.73
5.73
5.73
5.73
4.64
4.64
Y [pix]
X [pix]
0
500
1000
1500
2000


PLATE=2282 MJD=53683 Scattered Light before halo removal on sdR-b2-00034760.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.846
Max value = 6.914
Sat Feb 16 20:15:10 2008


PLATE=2282 MJD=53683 Scattered Light on sdR-b2-00034760.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
3.27
4.18
2.36


PLATE=2282 MJD=53683 Scattered Light on sdR-b2-00034760.fit
Brightness [electrons/pix]
0
1
2
3
4
5
6
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 2.026
Max value = 4.465
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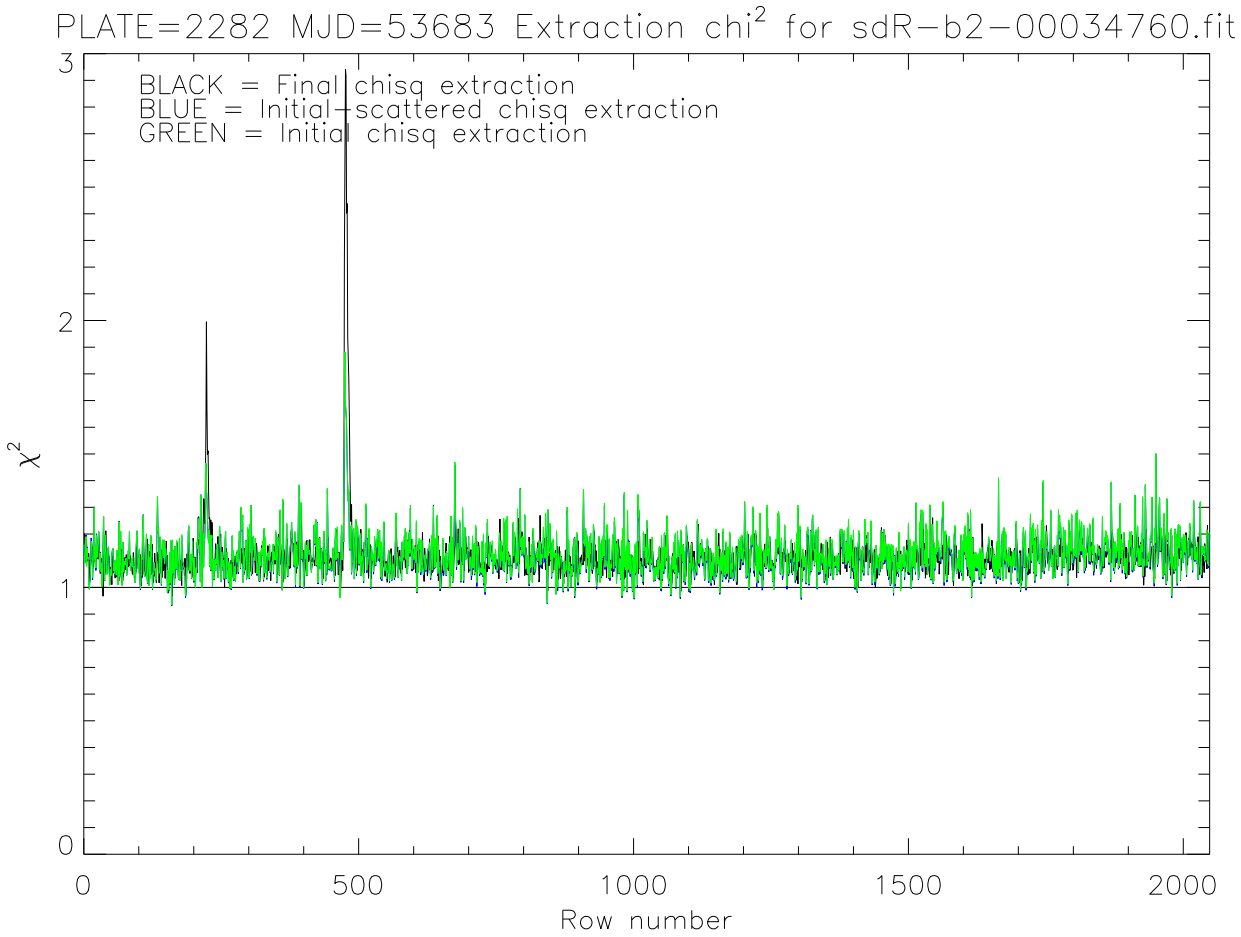
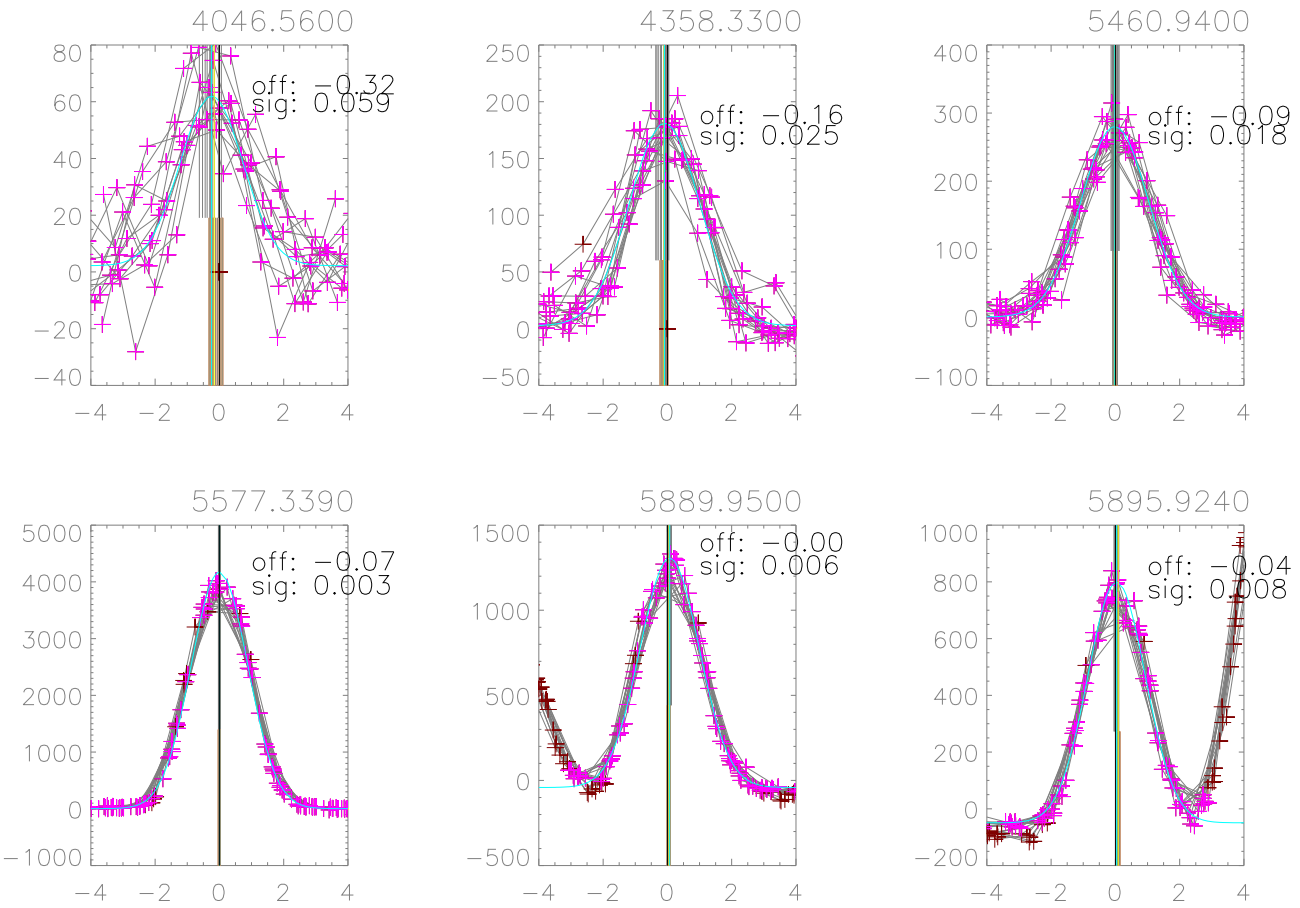
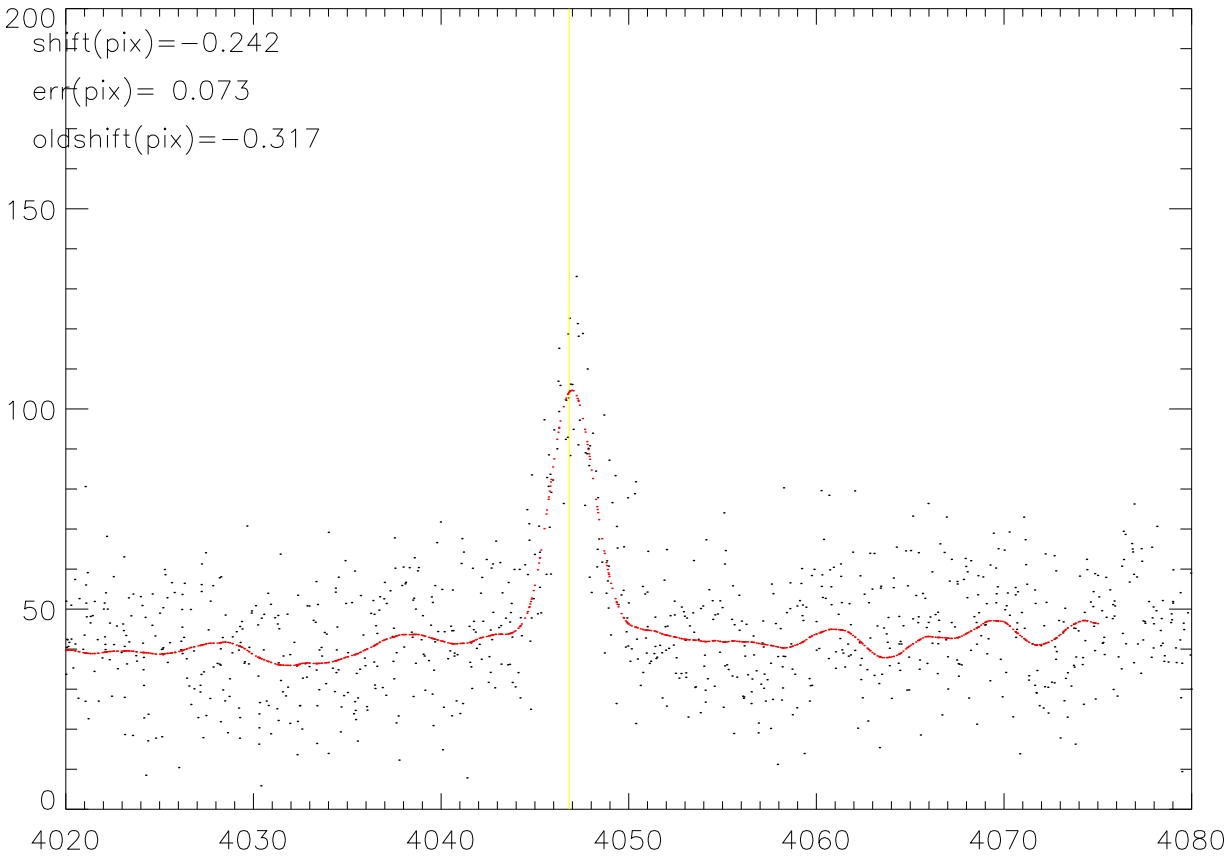
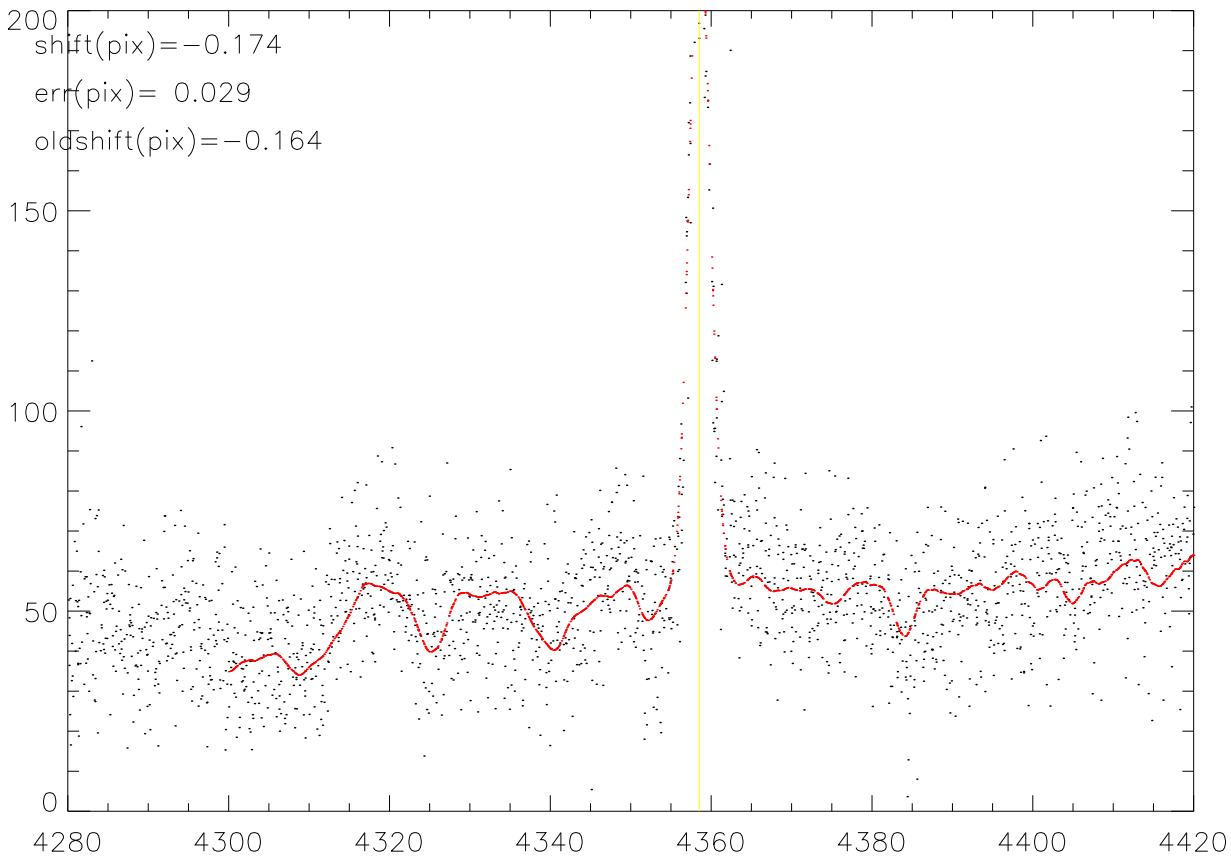
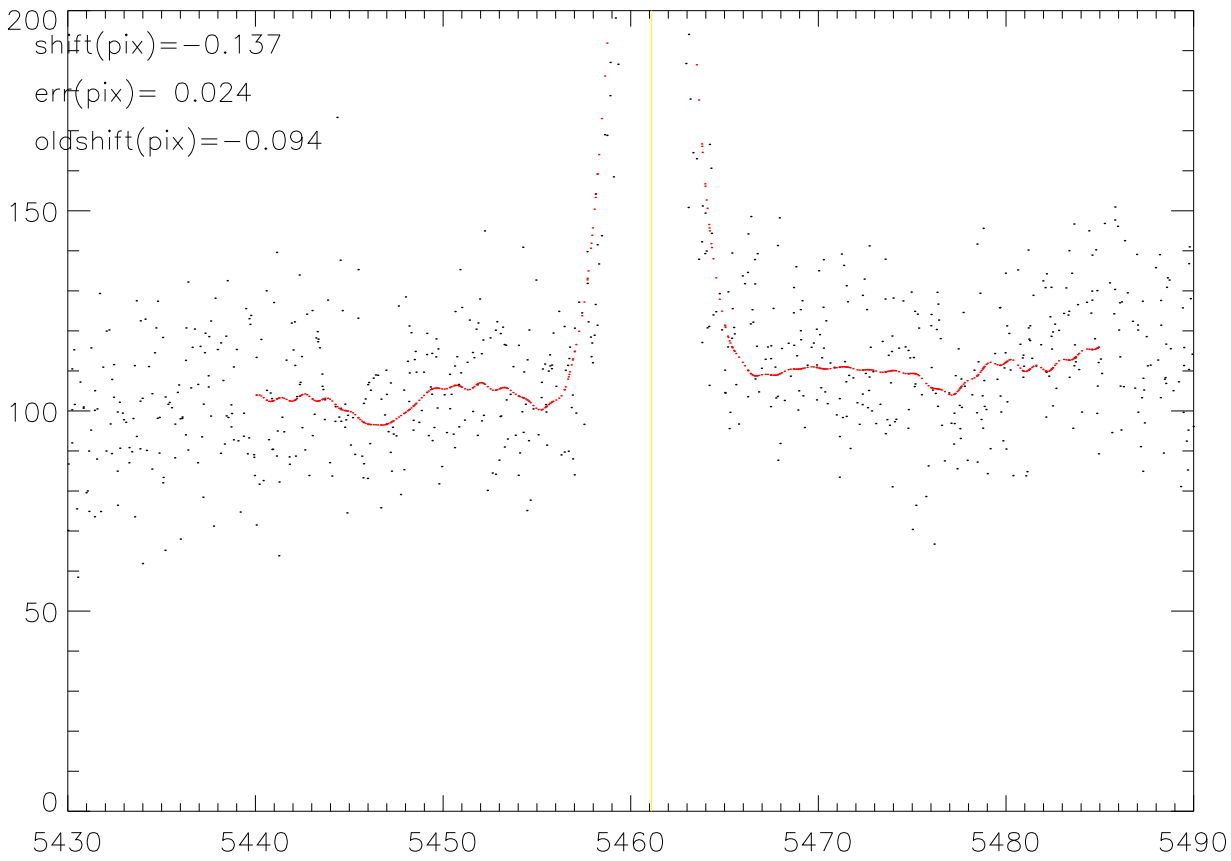
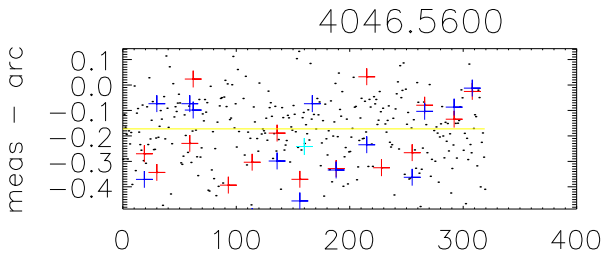

PLATE=2282 MJD=53683 Extraction chi^2 for sdR-b2-00034760.fit
BLACK = Final chisq extraction
BLUE = Initial+scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
0
500
1000
1500
2000
Row number

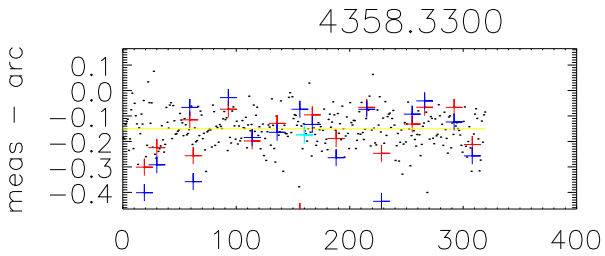

4046.5600
off: −0.32
sig: 0.059
4358.3300
off: −0.16
sig: 0.025
5460.9400
off: −0.09
sig: 0.018
5577.3390
off: −0.07
sig: 0.003
5889.9500
off: −0.00
sig: 0.006
5895.9240
off: −0.04
sig: 0.008

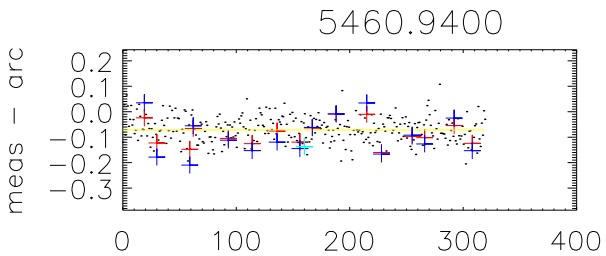

shift(pix)=−0.242
err(pix)= 0.073
oldshift(pix)=−0.317
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

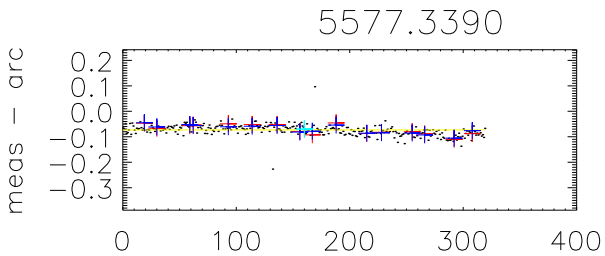

shift(pix)=−0.174
err(pix)= 0.029
oldshift(pix)=−0.164
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

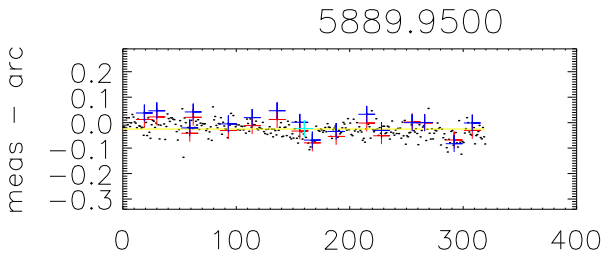

shift(pix)=−0.137
err(pix)= 0.024
oldshift(pix)=−0.094
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

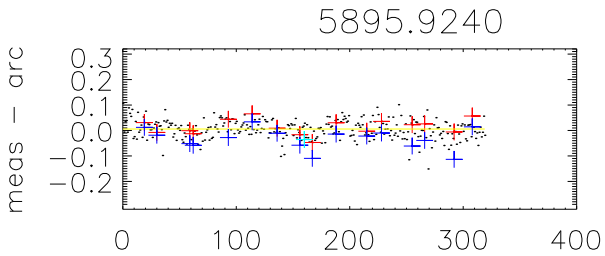

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

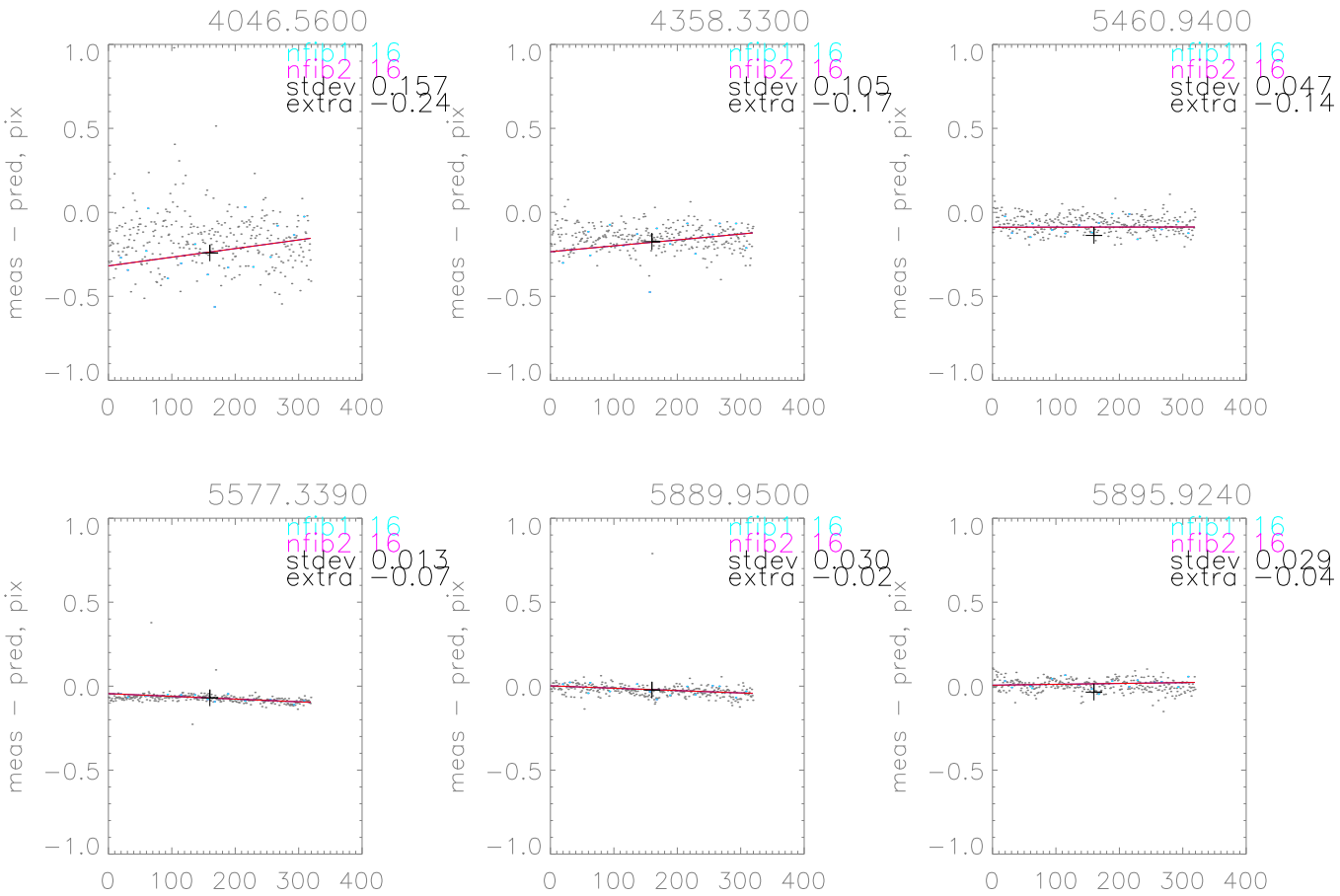

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

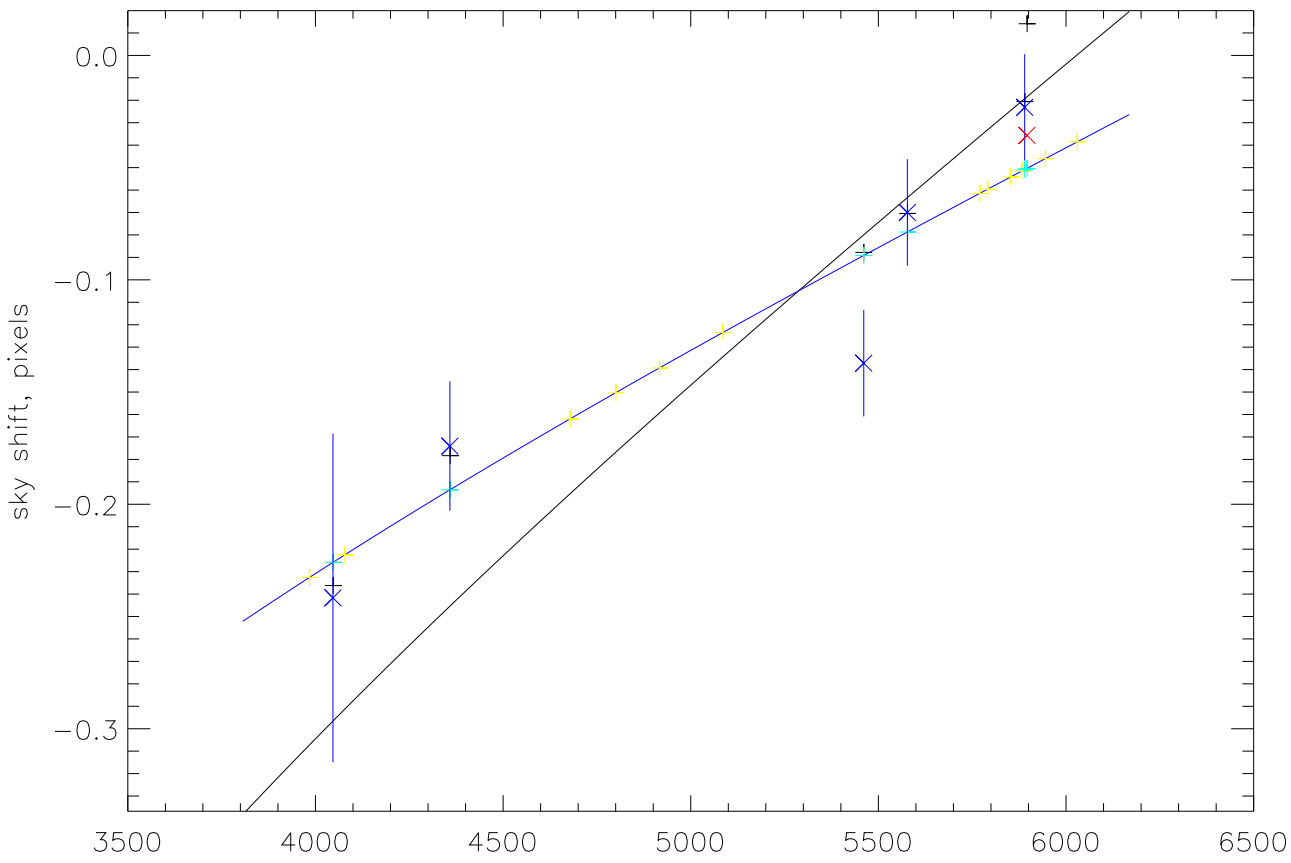

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

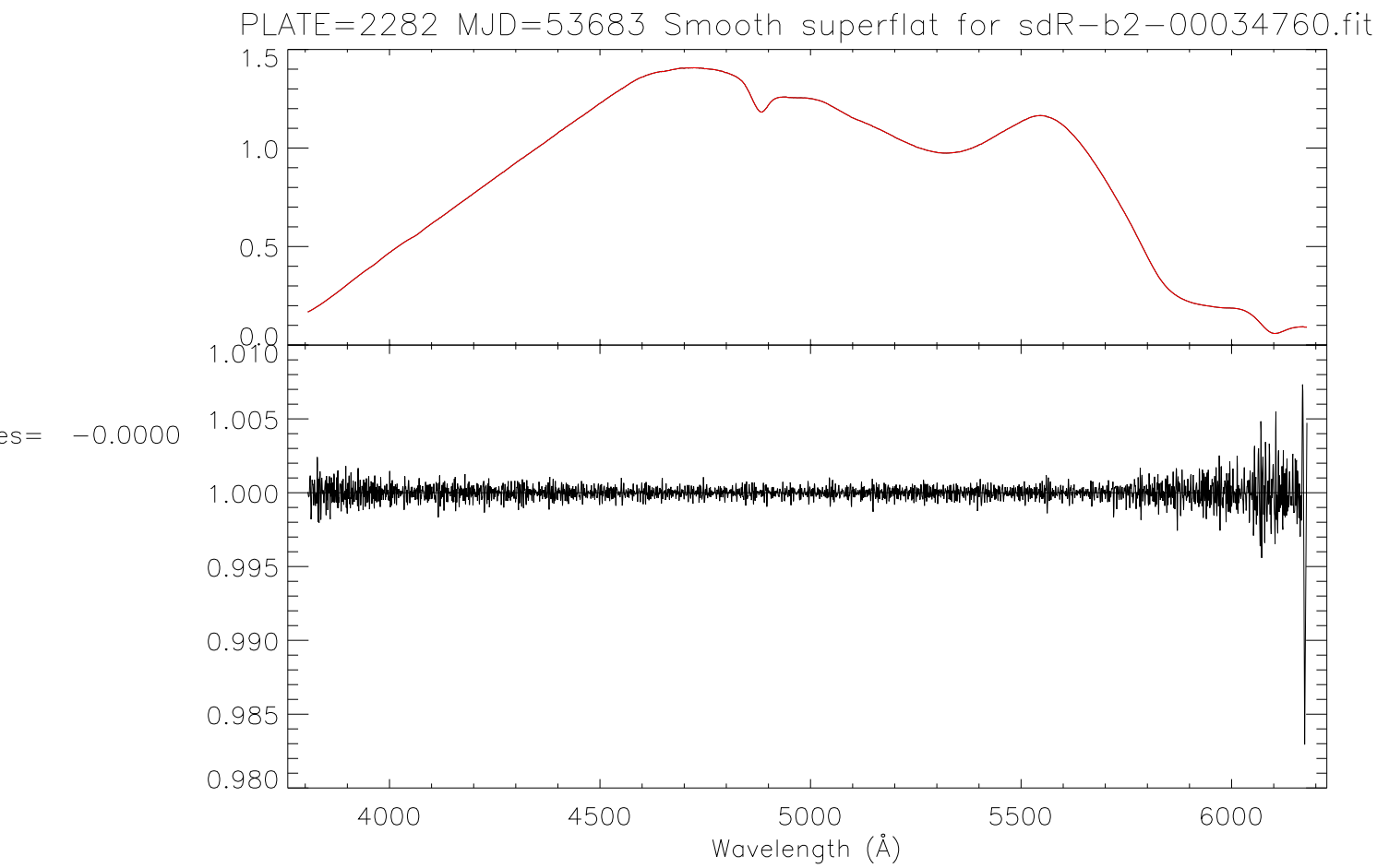

5577.3390
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

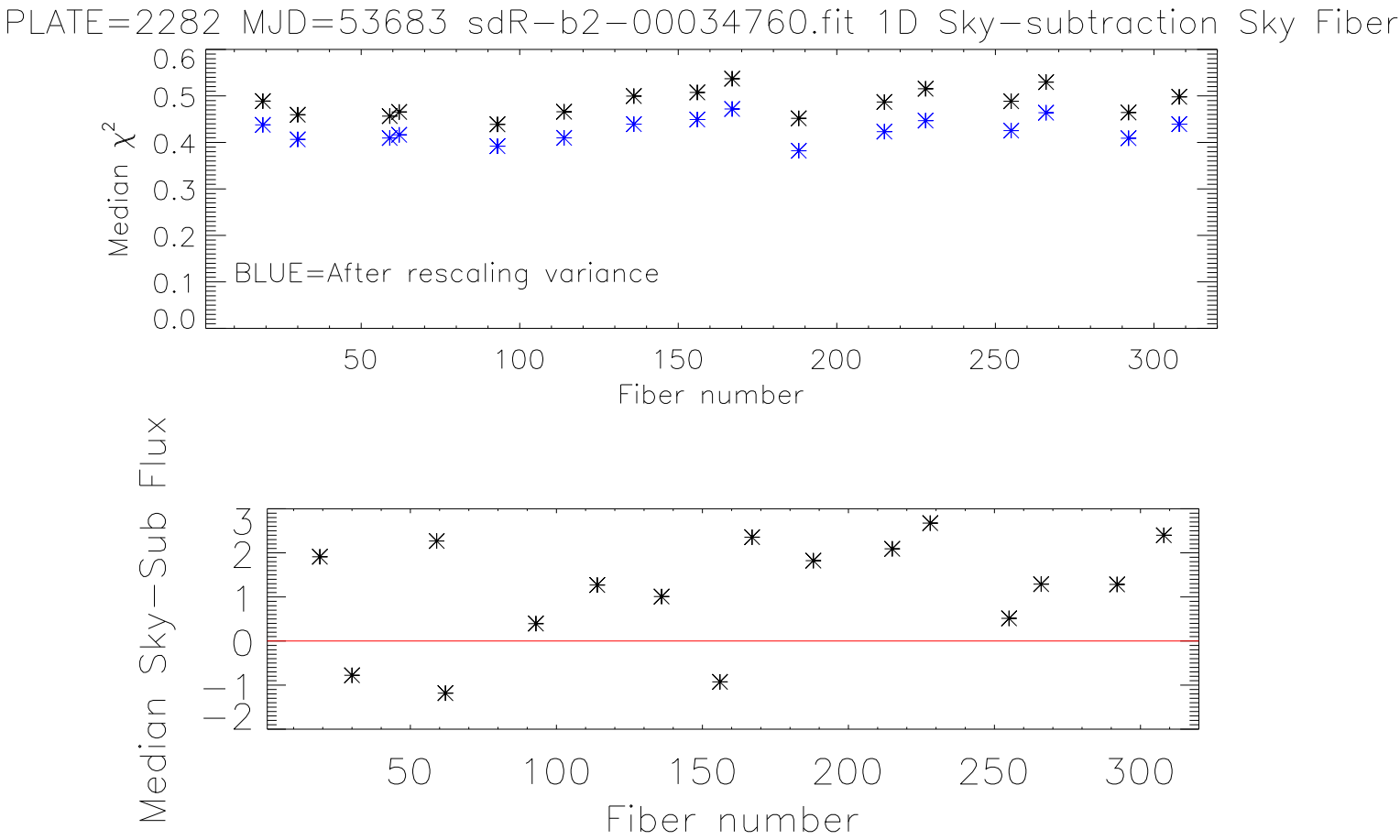

5889.9500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

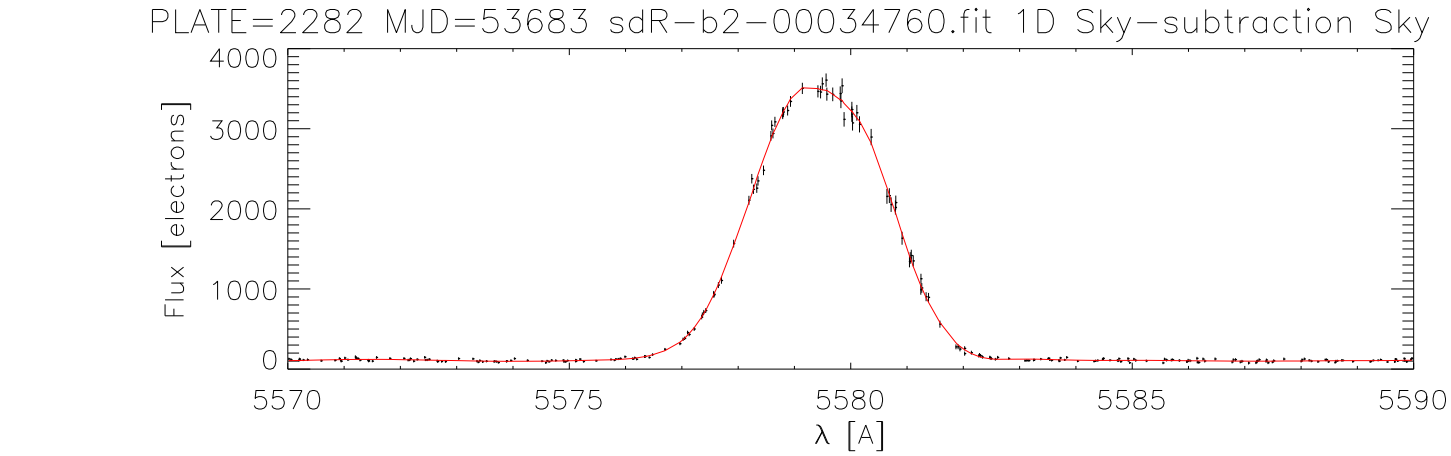

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

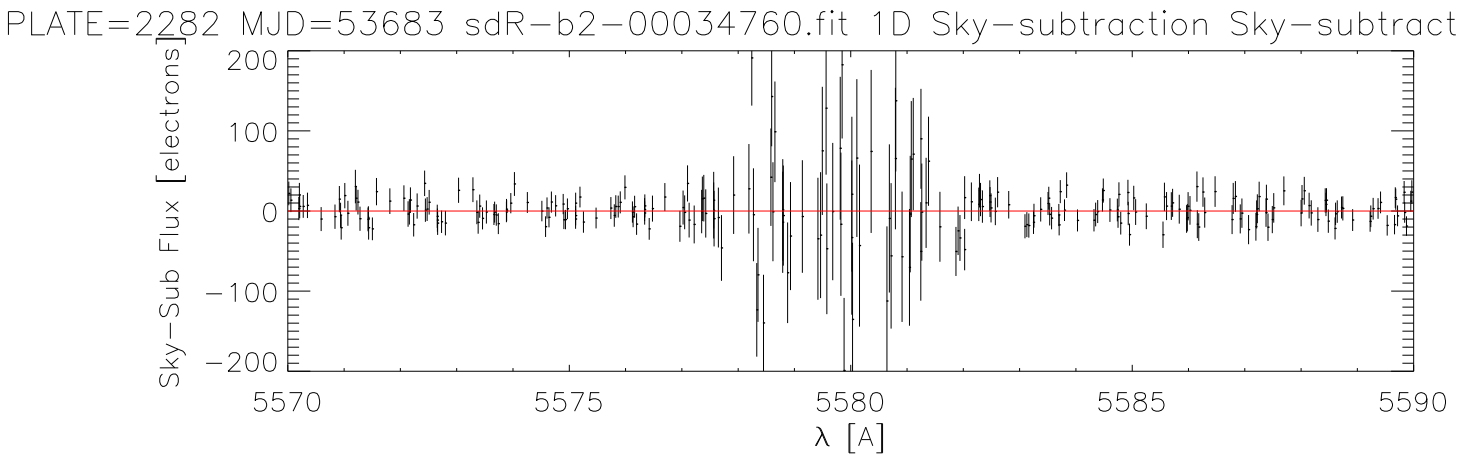

4046.5600
nfib1 16
nfib2 16
stdev 0.157
extra −0.24
4358.3300
nfib1 16
nfib2 16
stdev 0.105
extra −0.17
5460.9400
nfib1 16
nfib2 16
stdev 0.047
extra −0.14
5577.3390
nfib1 16
nfib2 16
stdev 0.013
extra −0.07
5889.9500
nfib1 16
nfib2 16
stdev 0.030
extra −0.02
5895.9240
nfib1 16
nfib2 16
stdev 0.029
extra −0.04
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

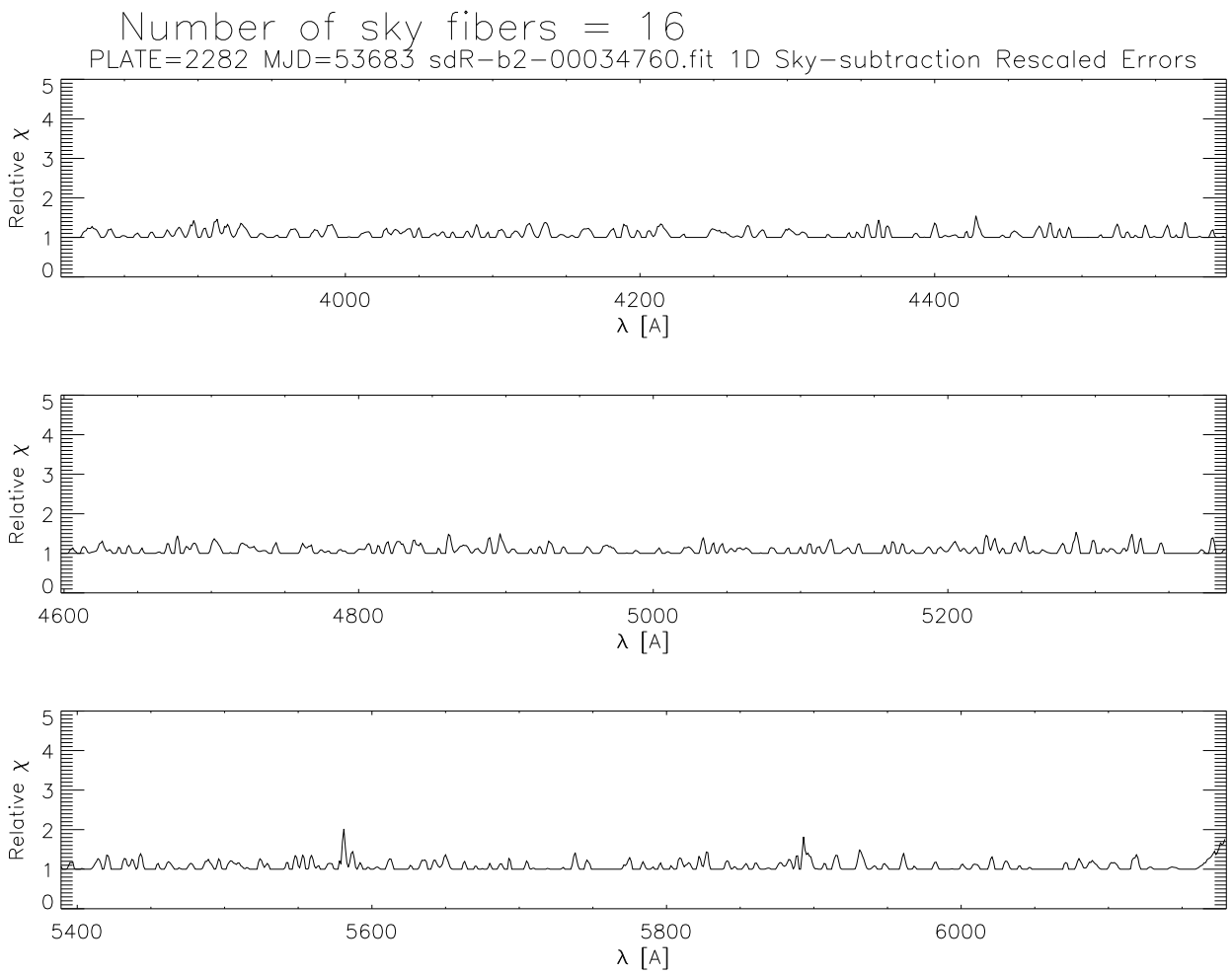

0.0
−0.1
−0.2
−0.3
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

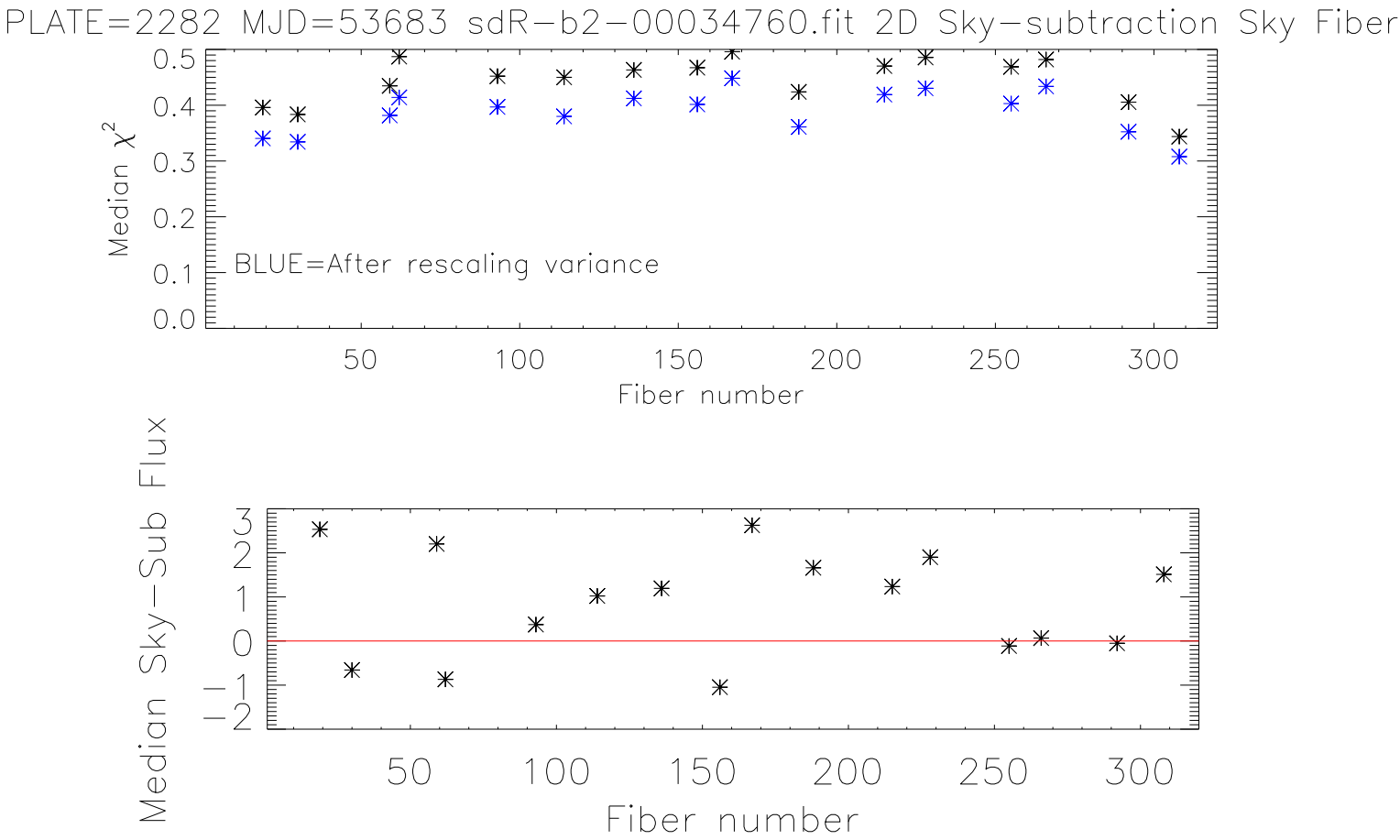

PLATE=2282 MJD=53683 Smooth superflat for sdR-b2-00034760.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
0.980
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

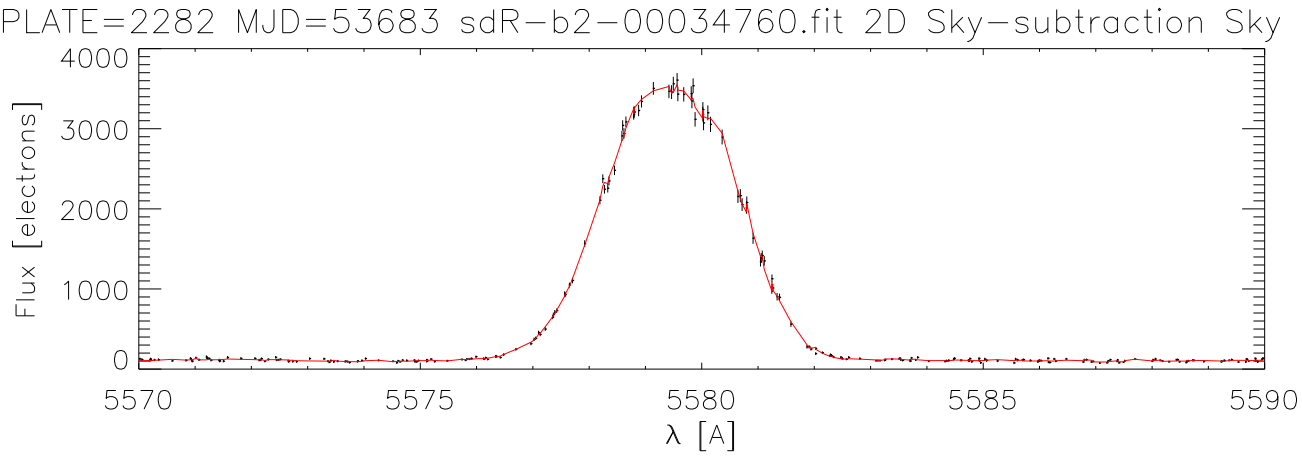

PLATE=2282 MJD=53683 sdR-b2-00034760.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

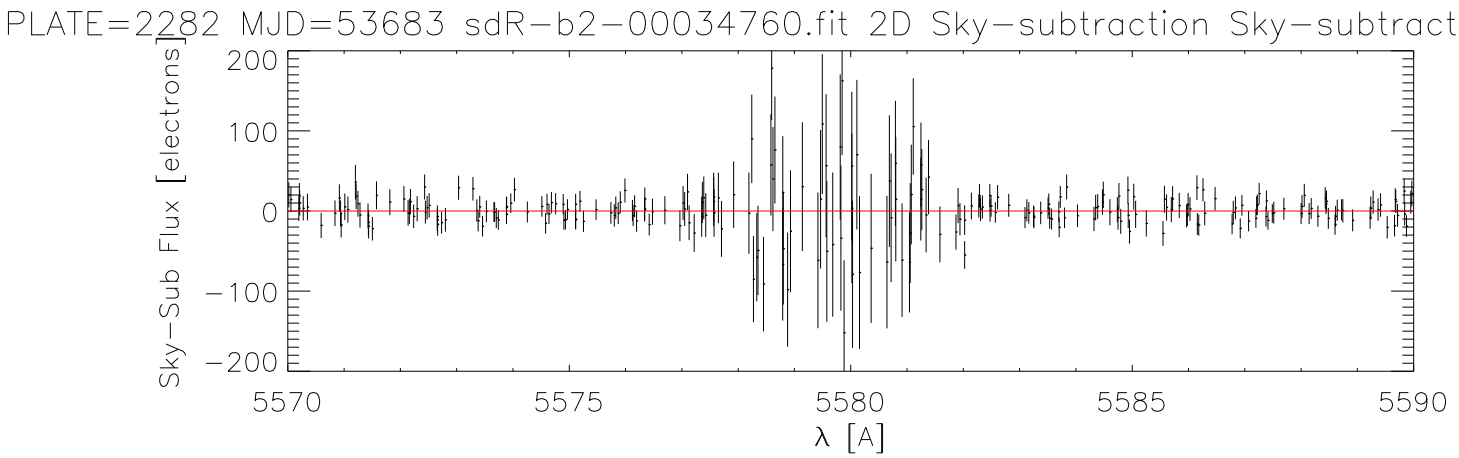

PLATE=2282 MJD=53683 sdR-b2-00034760.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

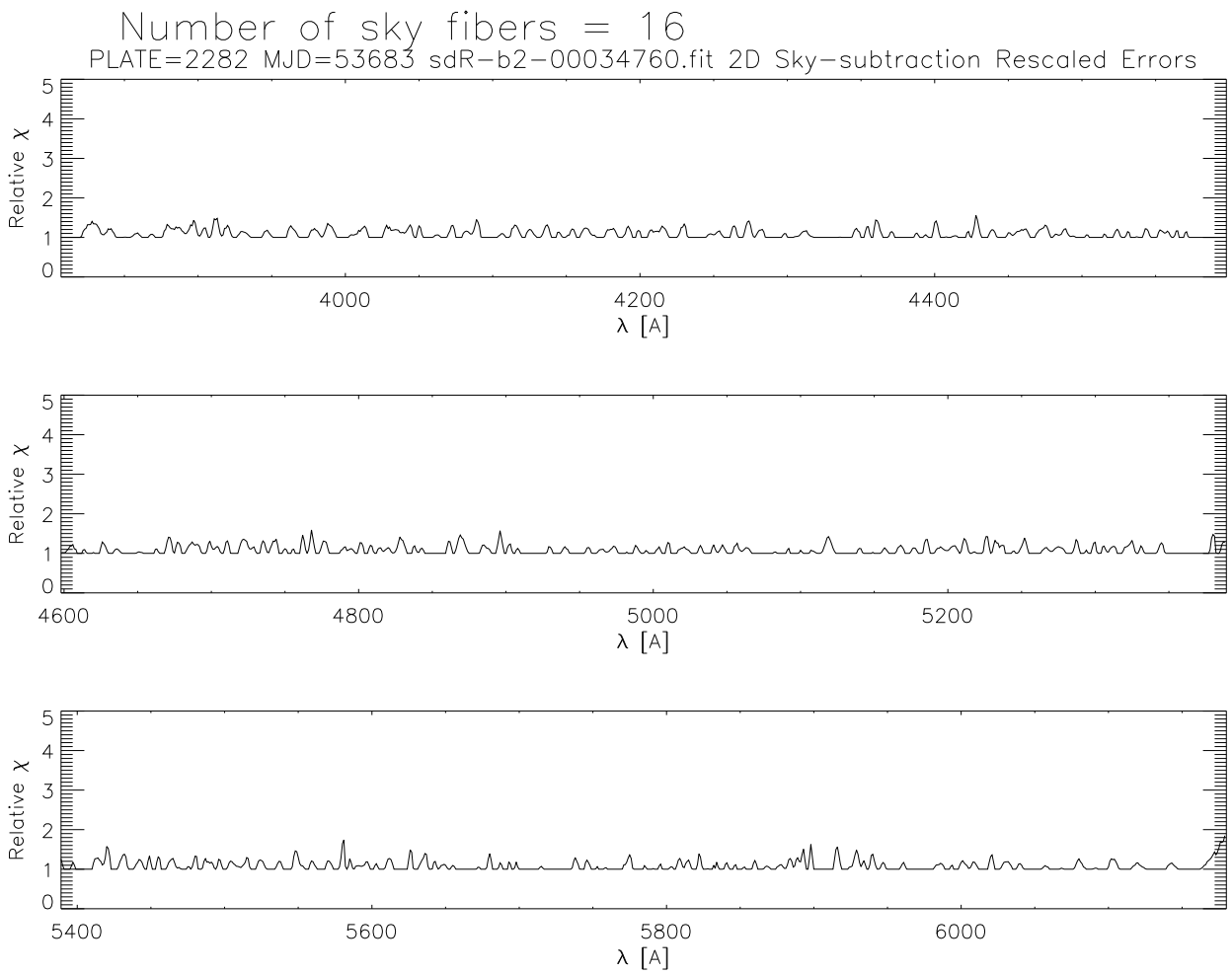

PLATE=2282 MJD=53683 sdR-b2-00034760.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

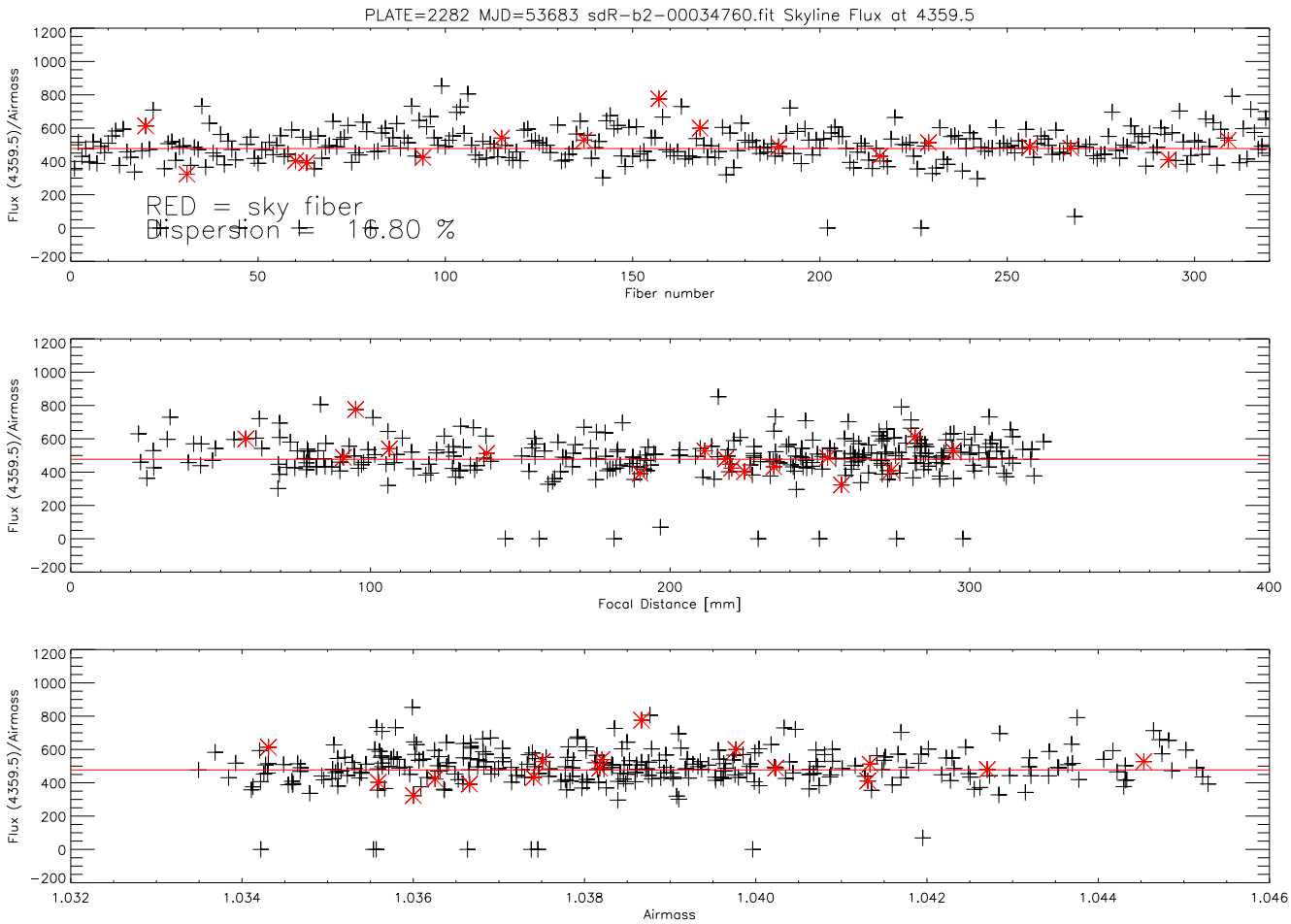

Number of sky fibers = 16
PLATE=2282 MJD=53683 sdR-b2-00034760.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

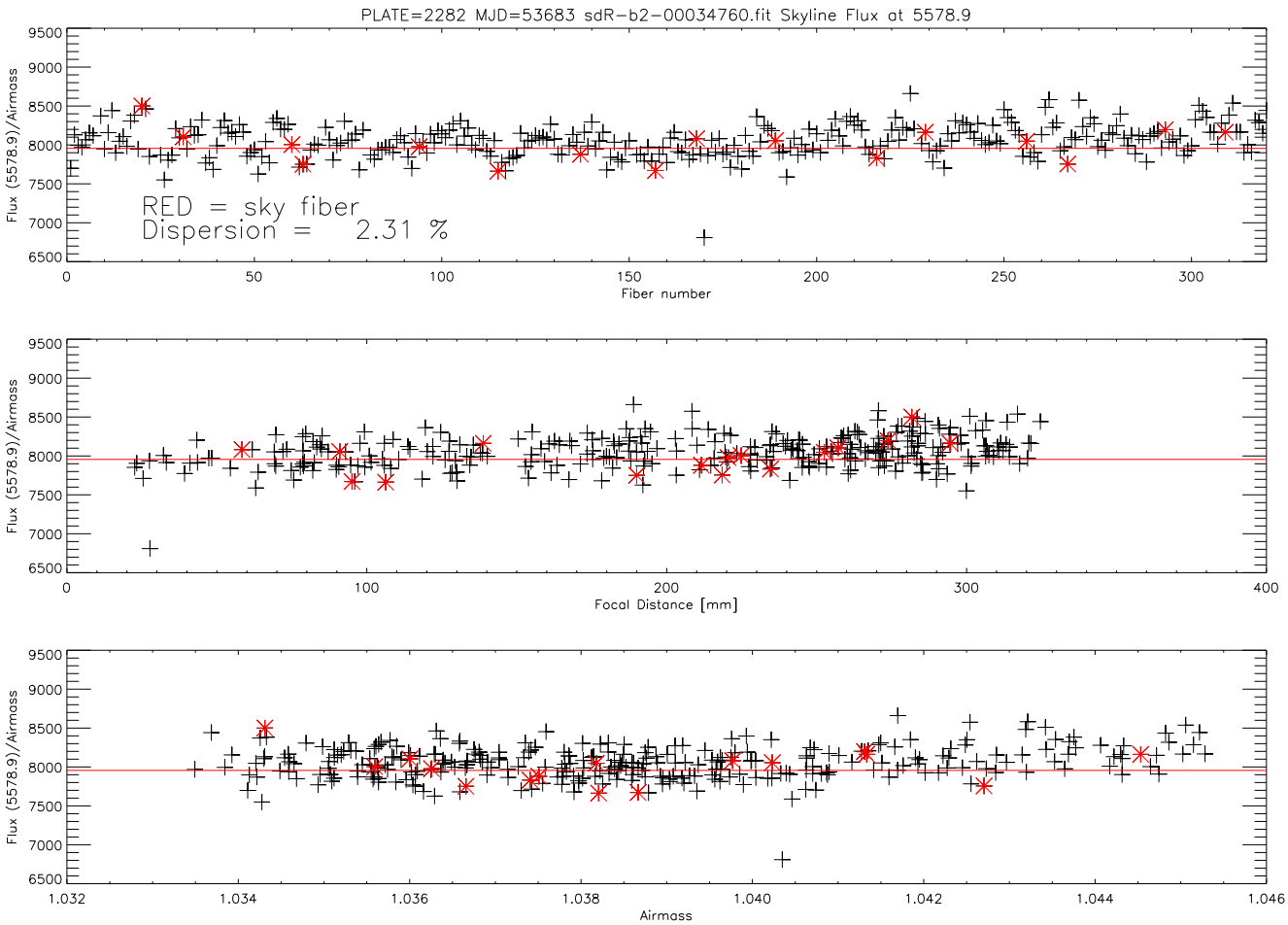

PLATE=2282 MJD=53683 sdR-b2-00034760.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

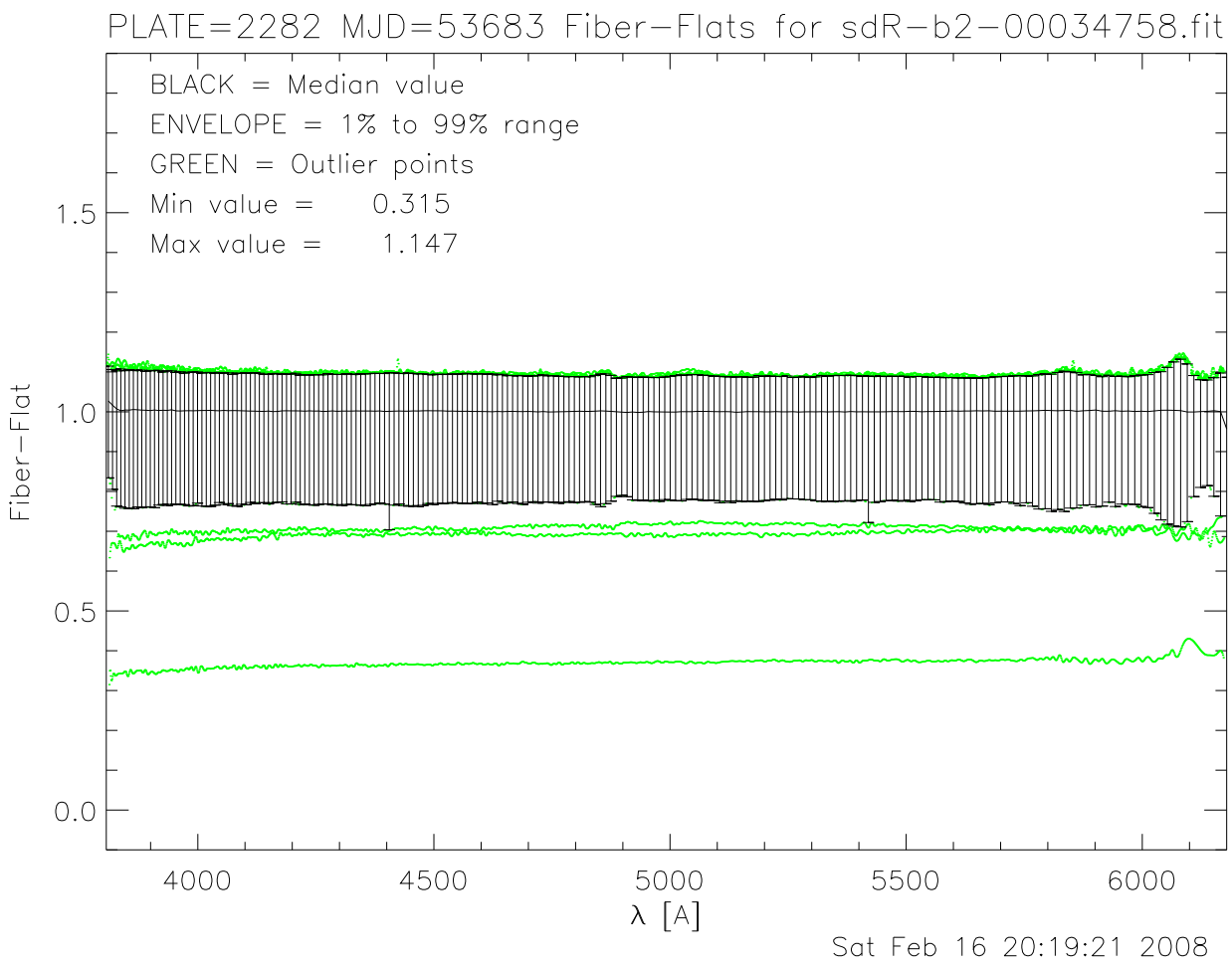

PLATE=2282 MJD=53683 sdR-b2-00034760.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]


PLATE=2282 MJD=53683 sdR-b2-00034760.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]


Number of sky fibers = 16
PLATE=2282 MJD=53683 sdR-b2-00034760.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000


PLATE=2282 MJD=53683 sdR-b2-00034760.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 16.80 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass


PLATE=2282 MJD=53683 sdR-b2-00034760.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.31 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass


PLATE=2282 MJD=53683 Fiber-Flats for sdR-b2-00034758.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.315
Max value = 1.147
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
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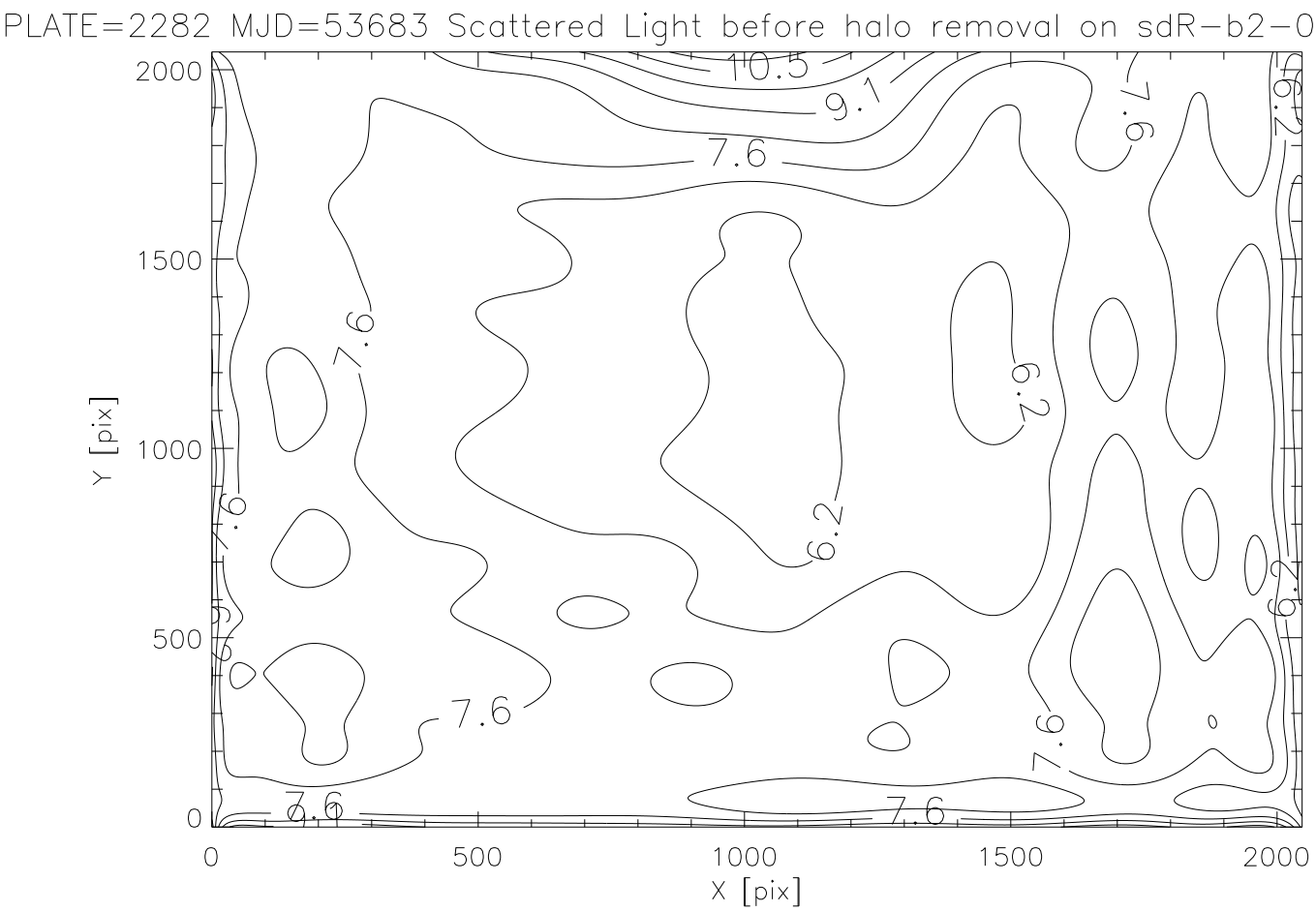
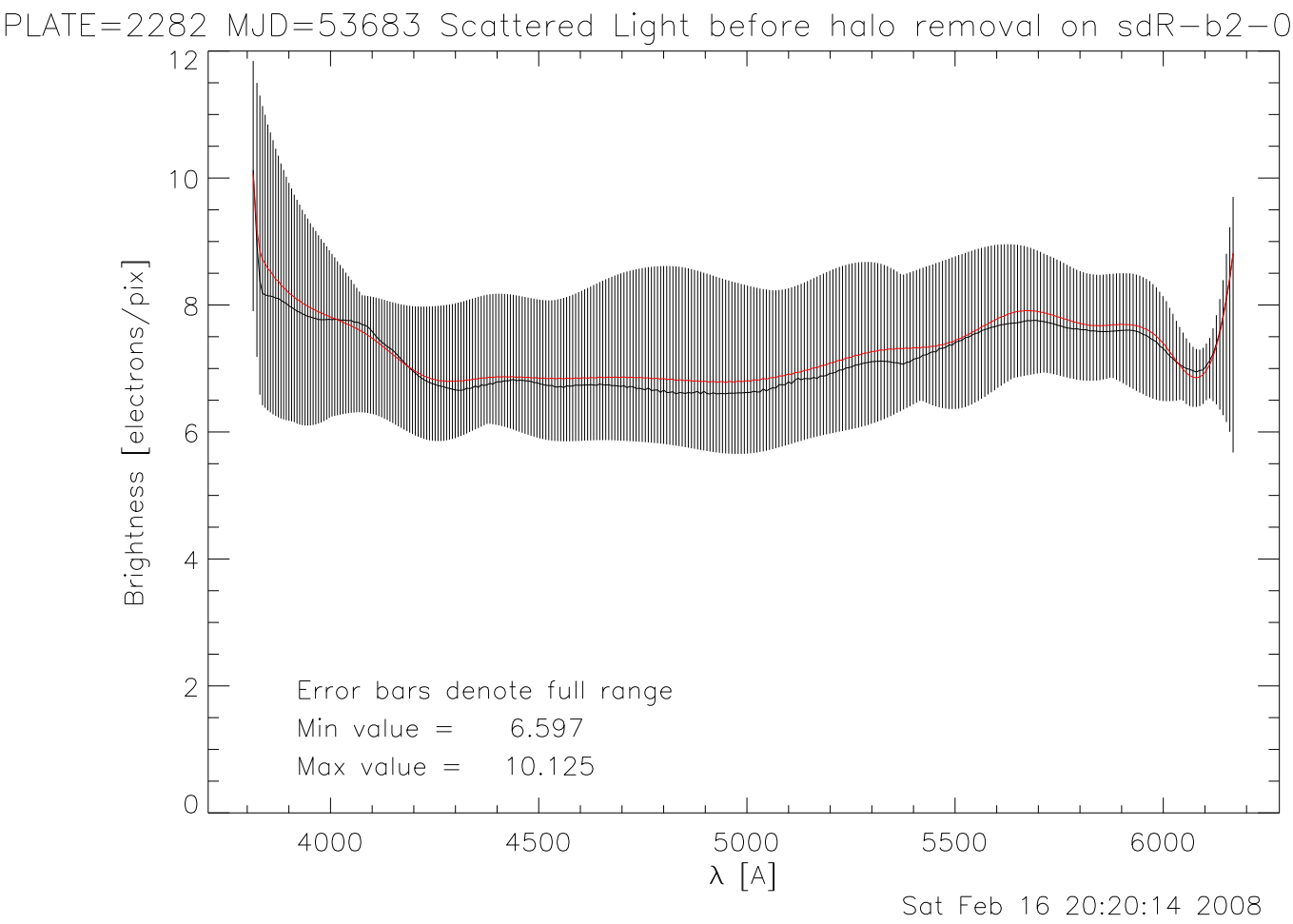

PLATE=2282 MJD=53683 Scattered Light before halo removal on sdR-b2-00034761.f
10.5
9.1
7.6
6.2
Y [pix]
X [pix]
0
500
1000
1500
2000


PLATE=2282 MJD=53683 Scattered Light before halo removal on sdR-b2-00034761.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.597
Max value = 10.125
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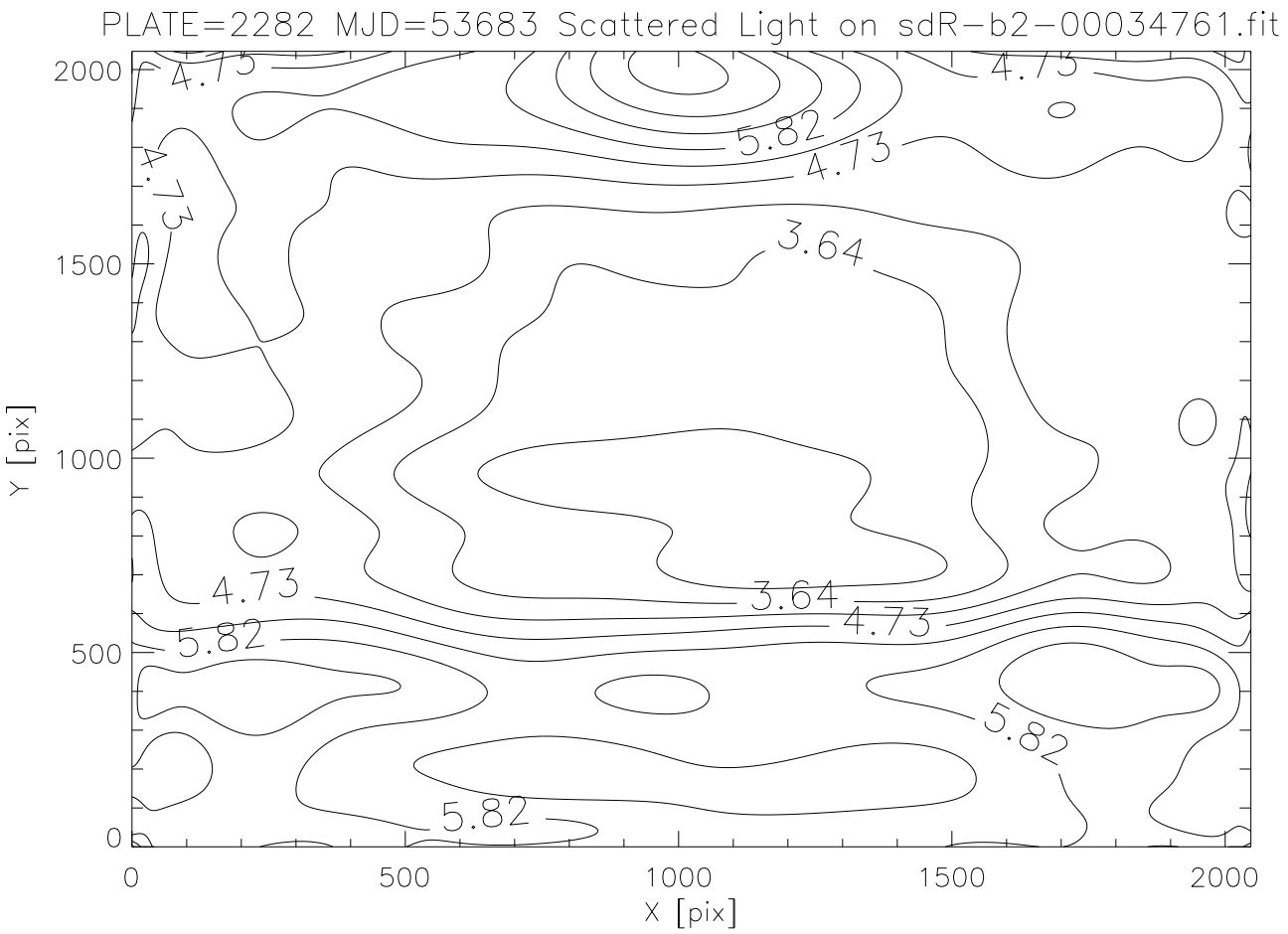
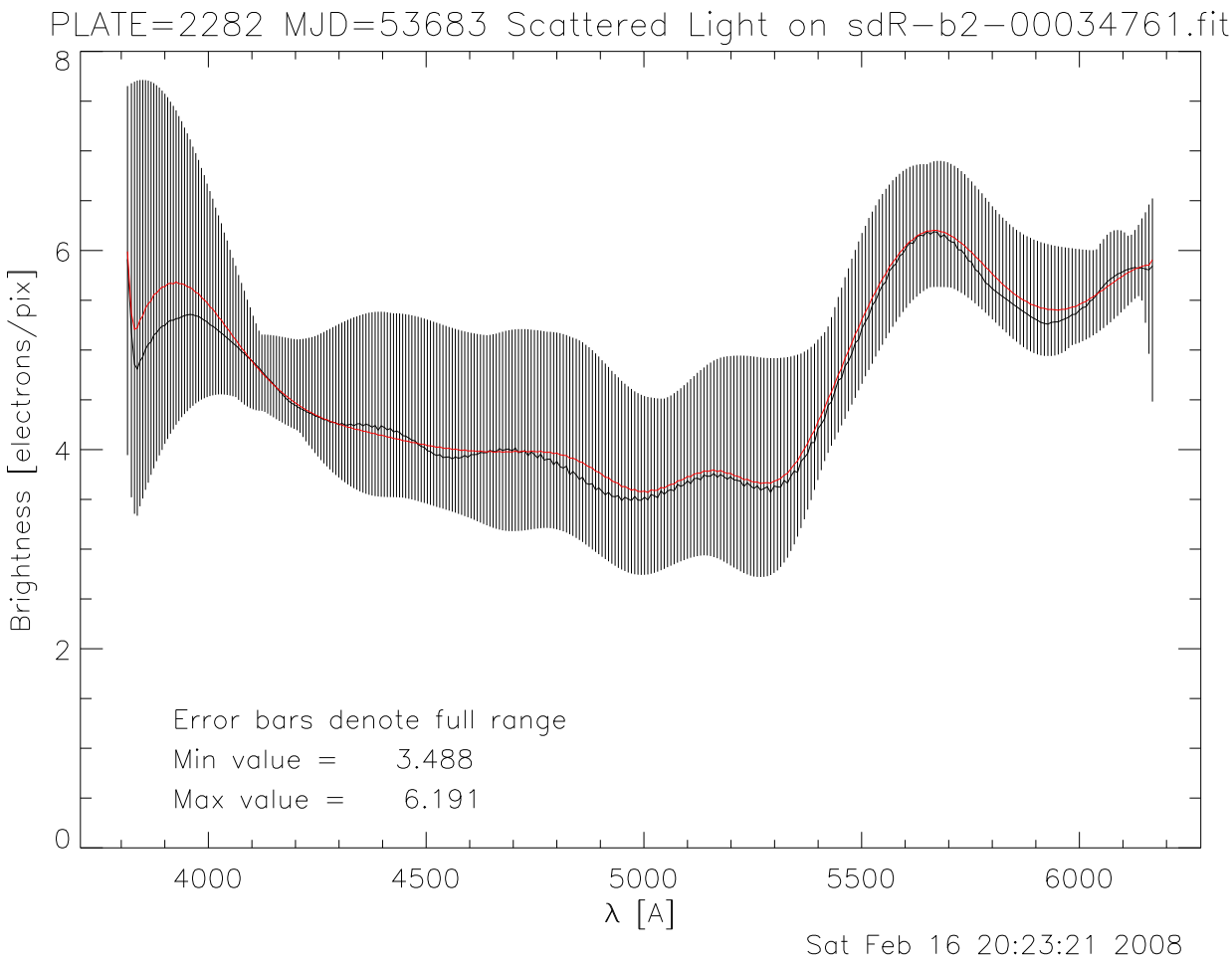
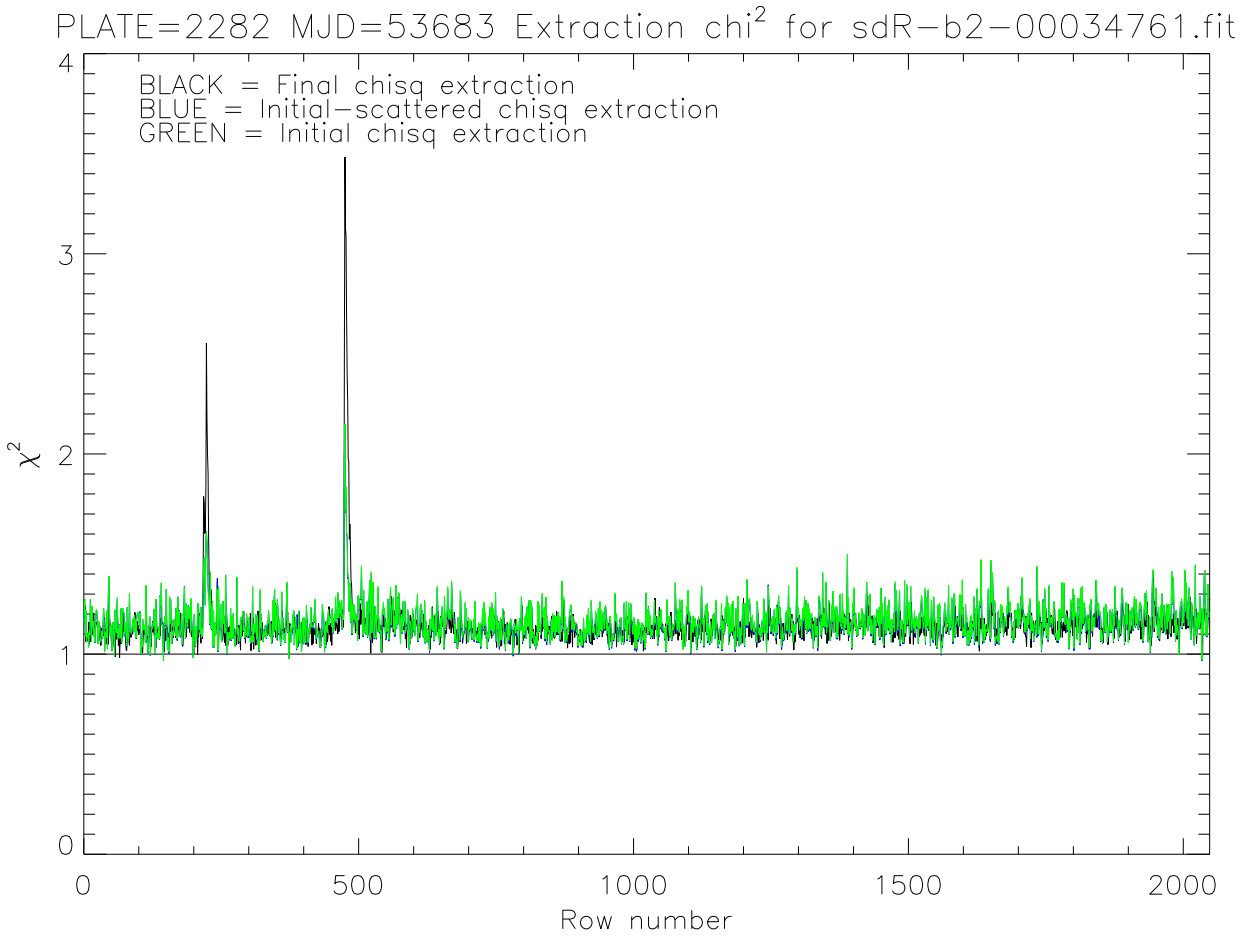
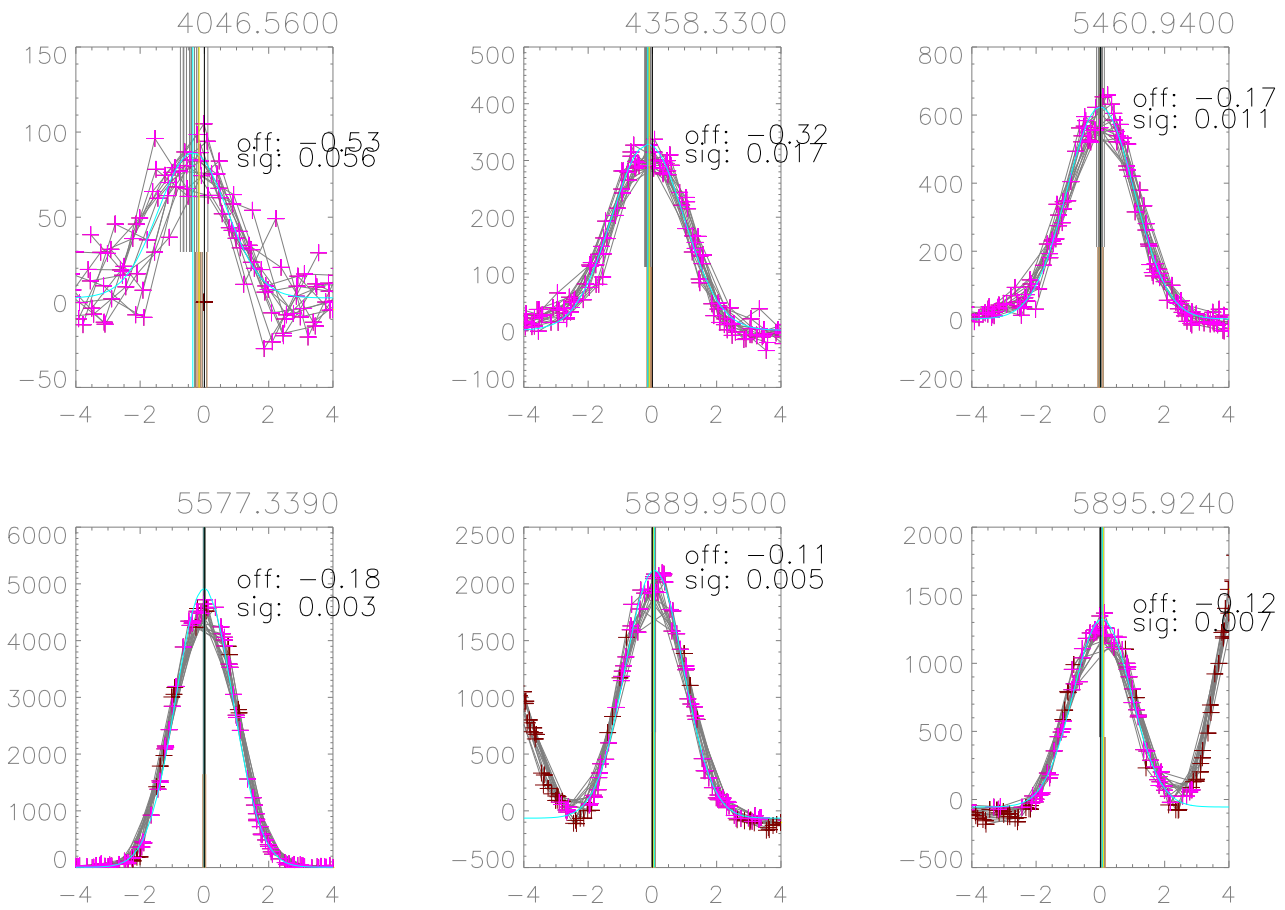
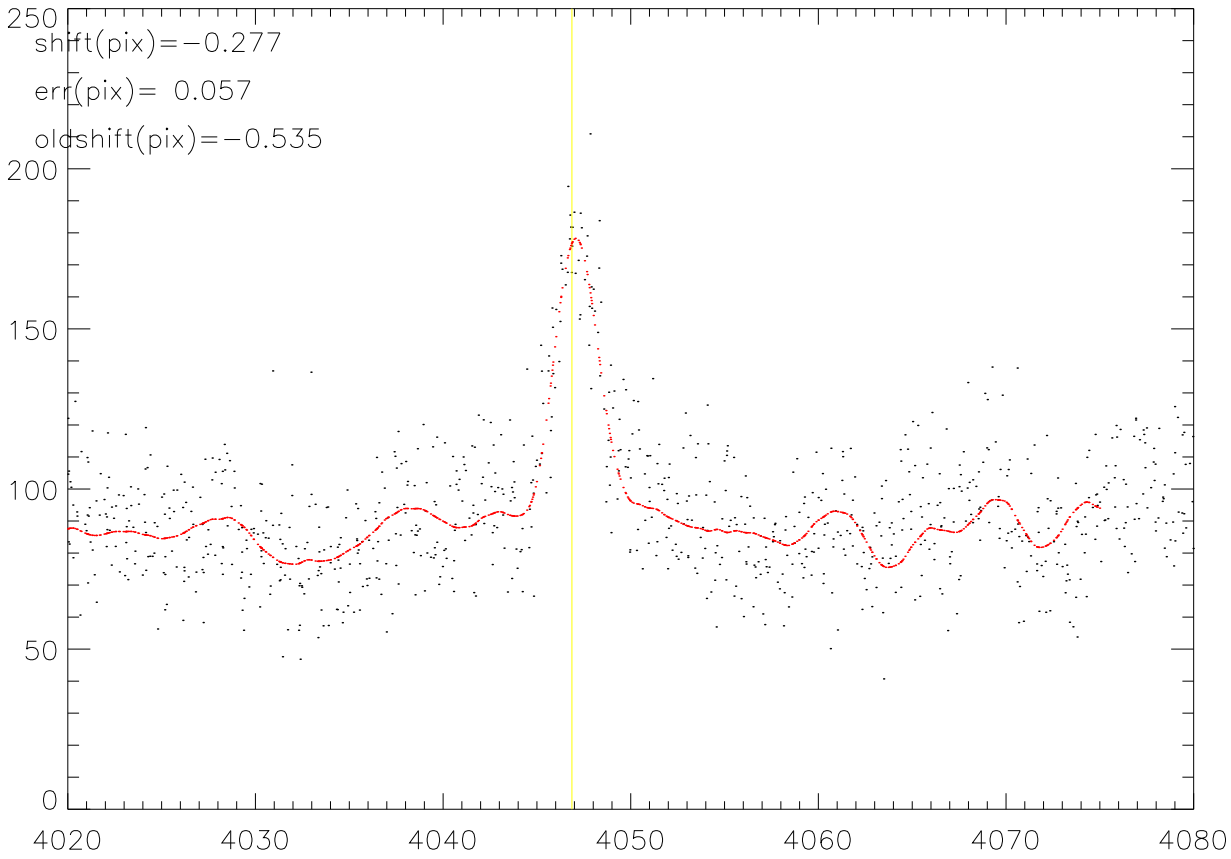
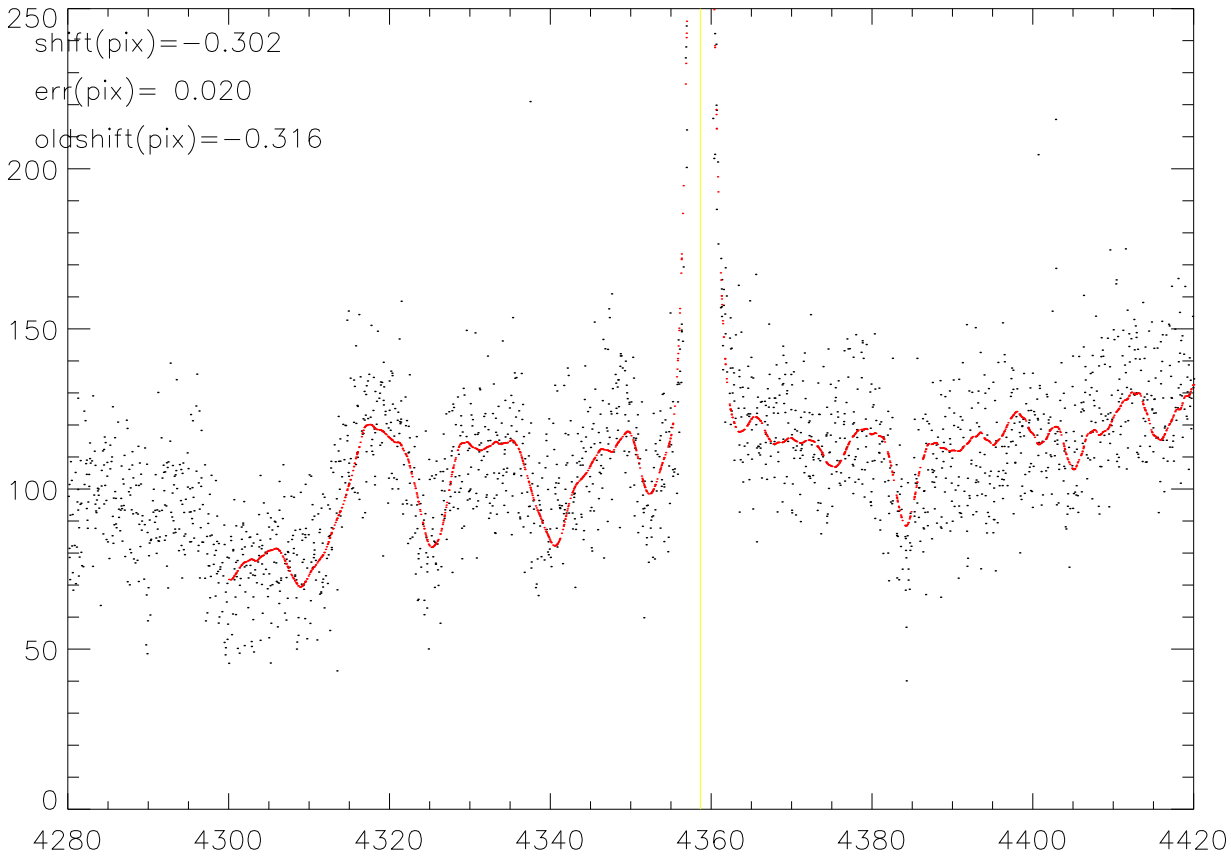

PLATE=2282 MJD=53683 Scattered Light on sdR-b2-00034761.fit
4.73
5.82
4.73
3.64
4.73
3.64
4.73
5.82
5.82
5.82
Y [pix]
X [pix]
0
500
1000
1500
2000

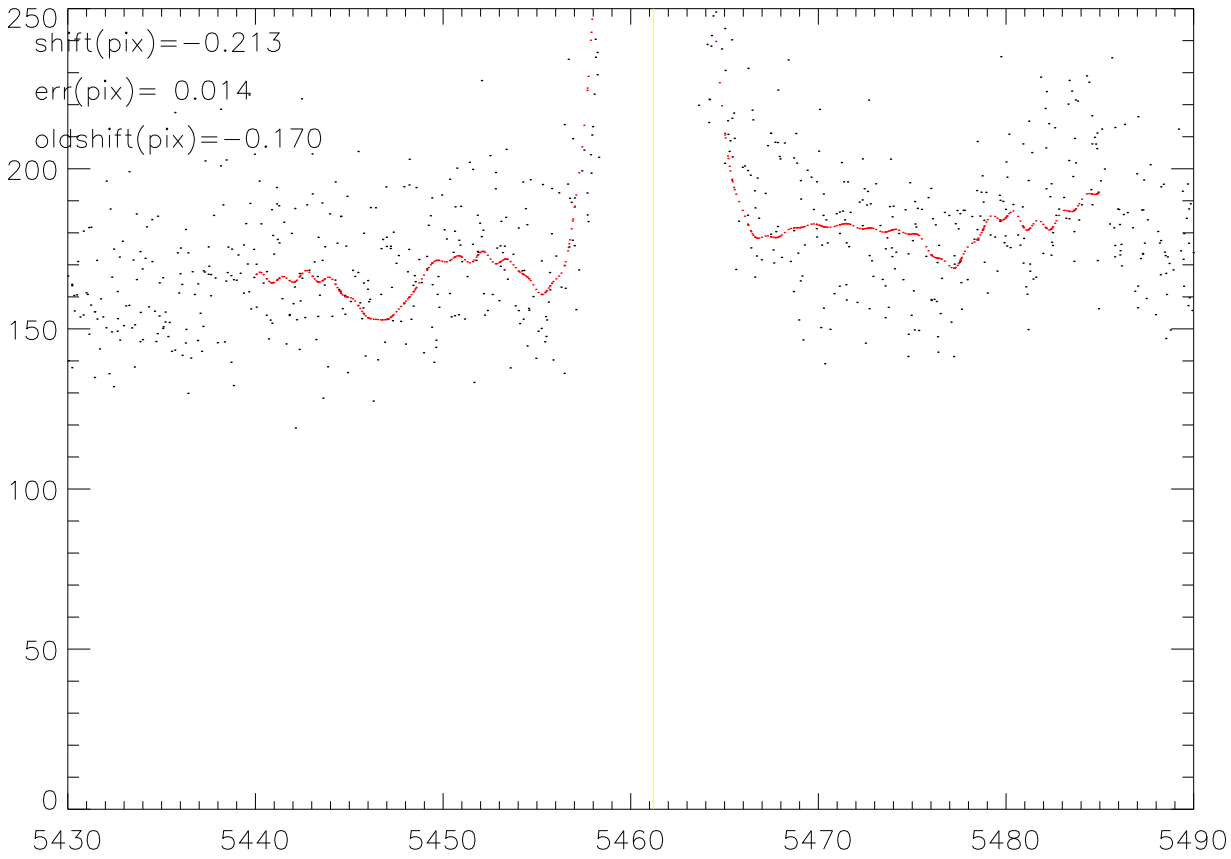

PLATE=2282 MJD=53683 Scattered Light on sdR-b2-00034761.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.488
Max value = 6.191
Sat Feb 16 20:23:21 2008

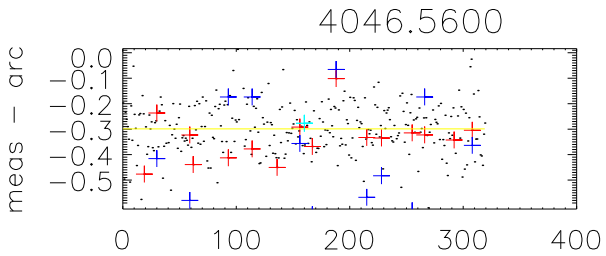

PLATE=2282 MJD=53683 Extraction chi^2 for sdR-b2-00034761.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

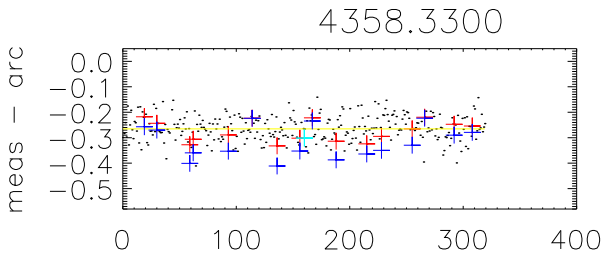

4046.5600
off: −0.53
sig: 0.056
4358.3300
off: −0.32
sig: 0.017
5460.9400
off: −0.17
sig: 0.011
5577.3390
off: −0.18
sig: 0.003
5889.9500
off: −0.11
sig: 0.005
5895.9240
off: −0.12
sig: 0.007

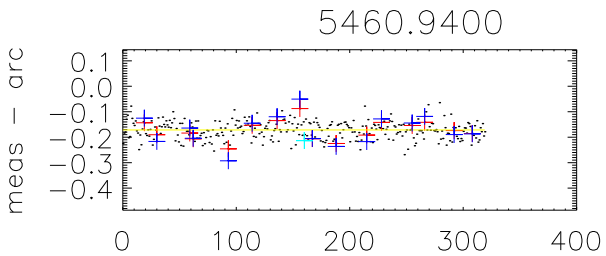

shift(pix)=−0.277
err(pix)= 0.057
oldshift(pix)=−0.535
250
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

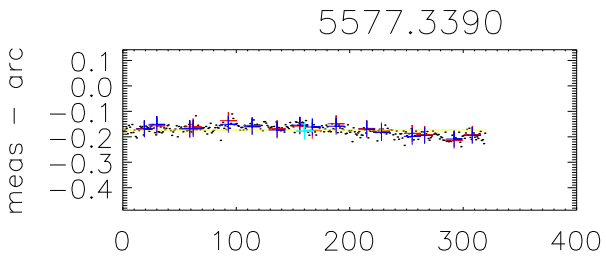

shift(pix)=−0.302
err(pix)= 0.020
oldshift(pix)=−0.316
250
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

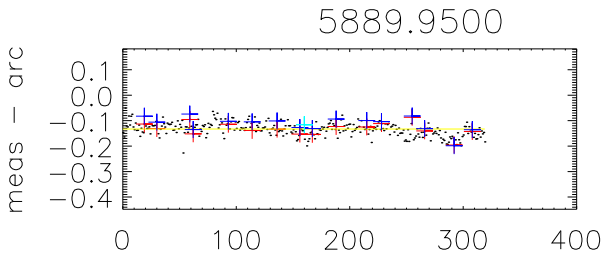

shift(pix)=−0.213
err(pix)= 0.014
oldshift(pix)=−0.170
250
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

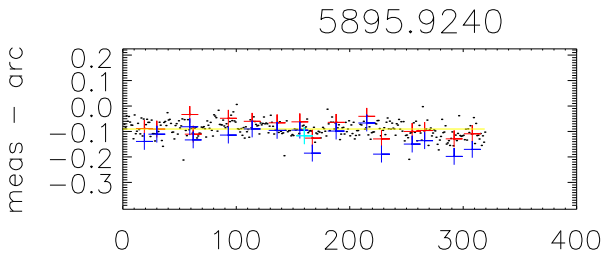

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

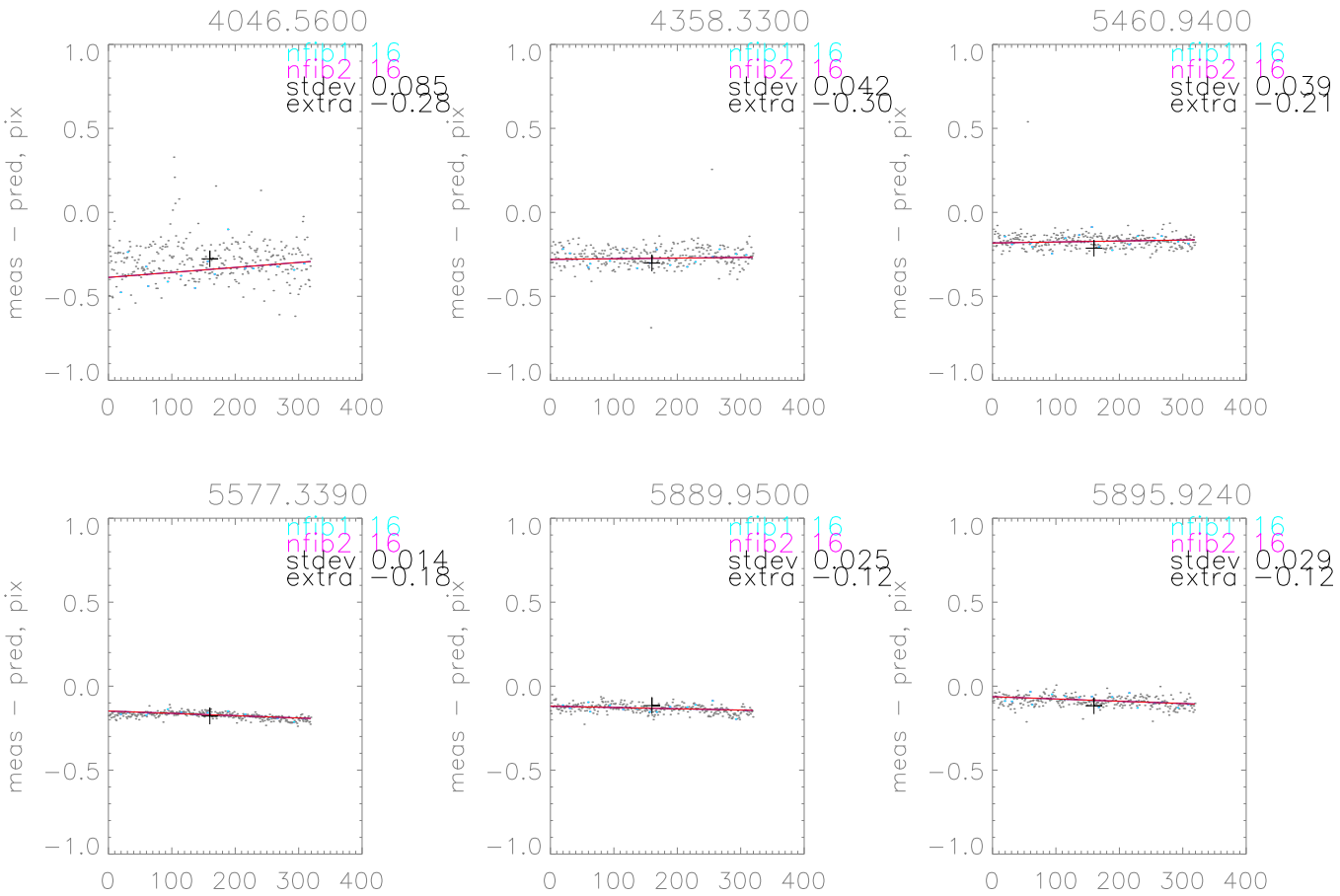

4358.3300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

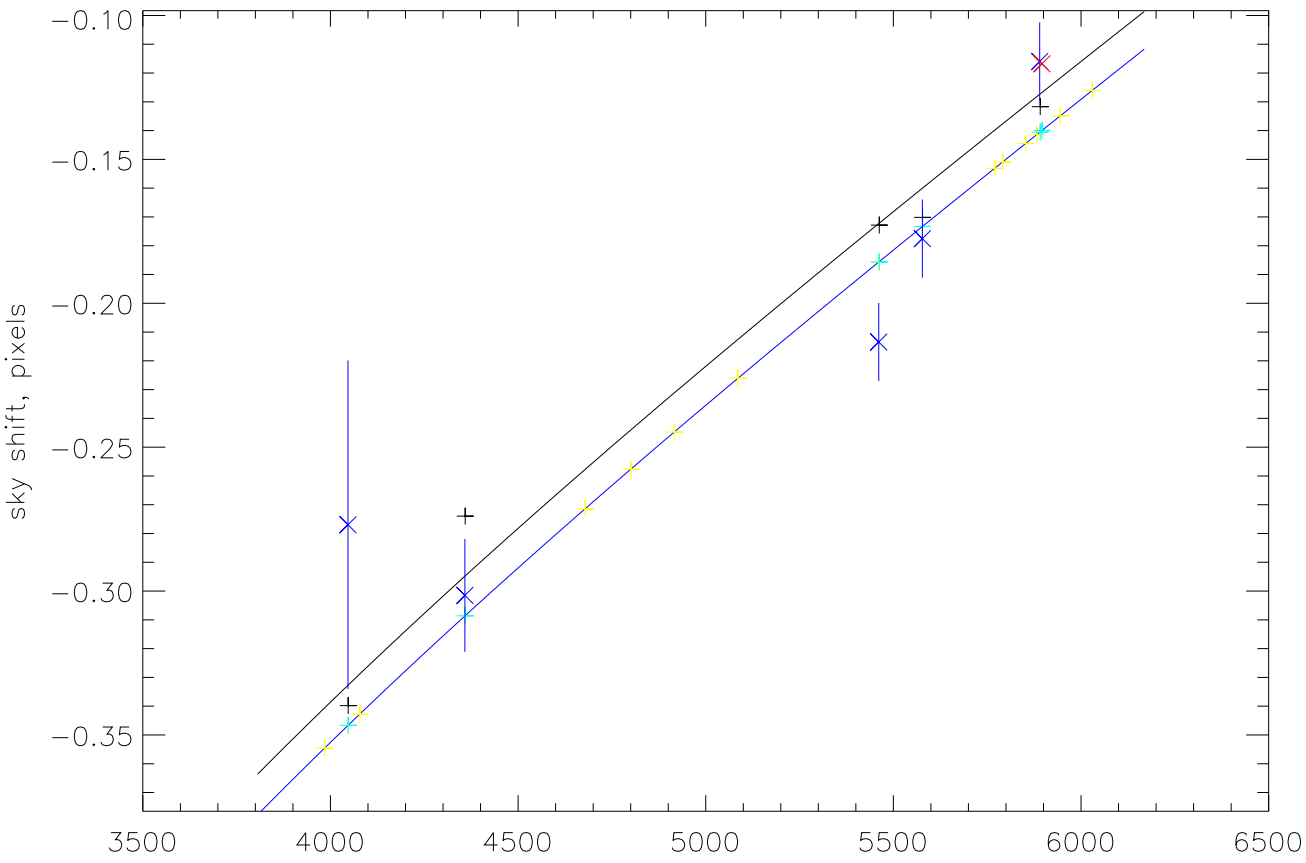

5460.9400
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

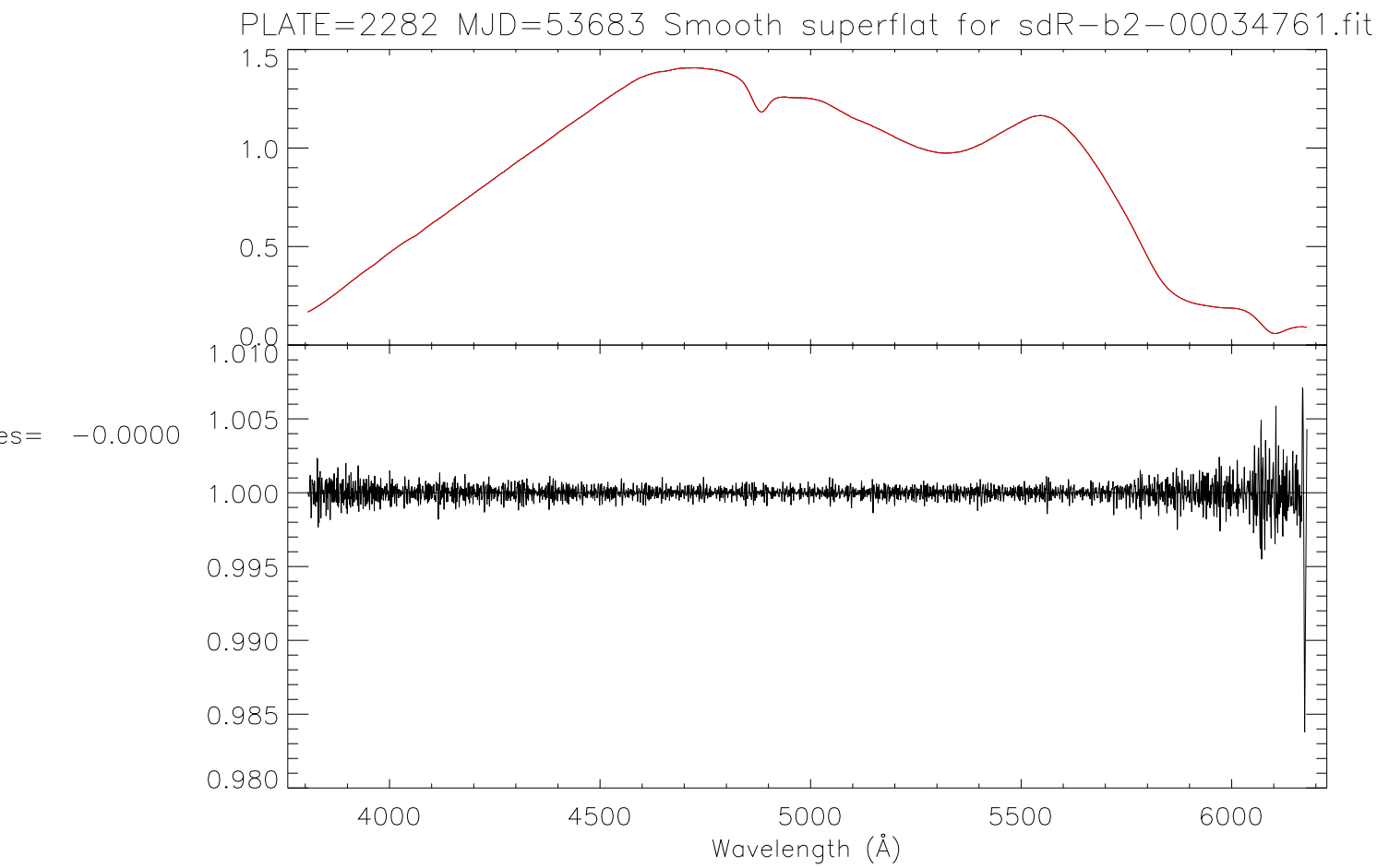

5577.3390
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

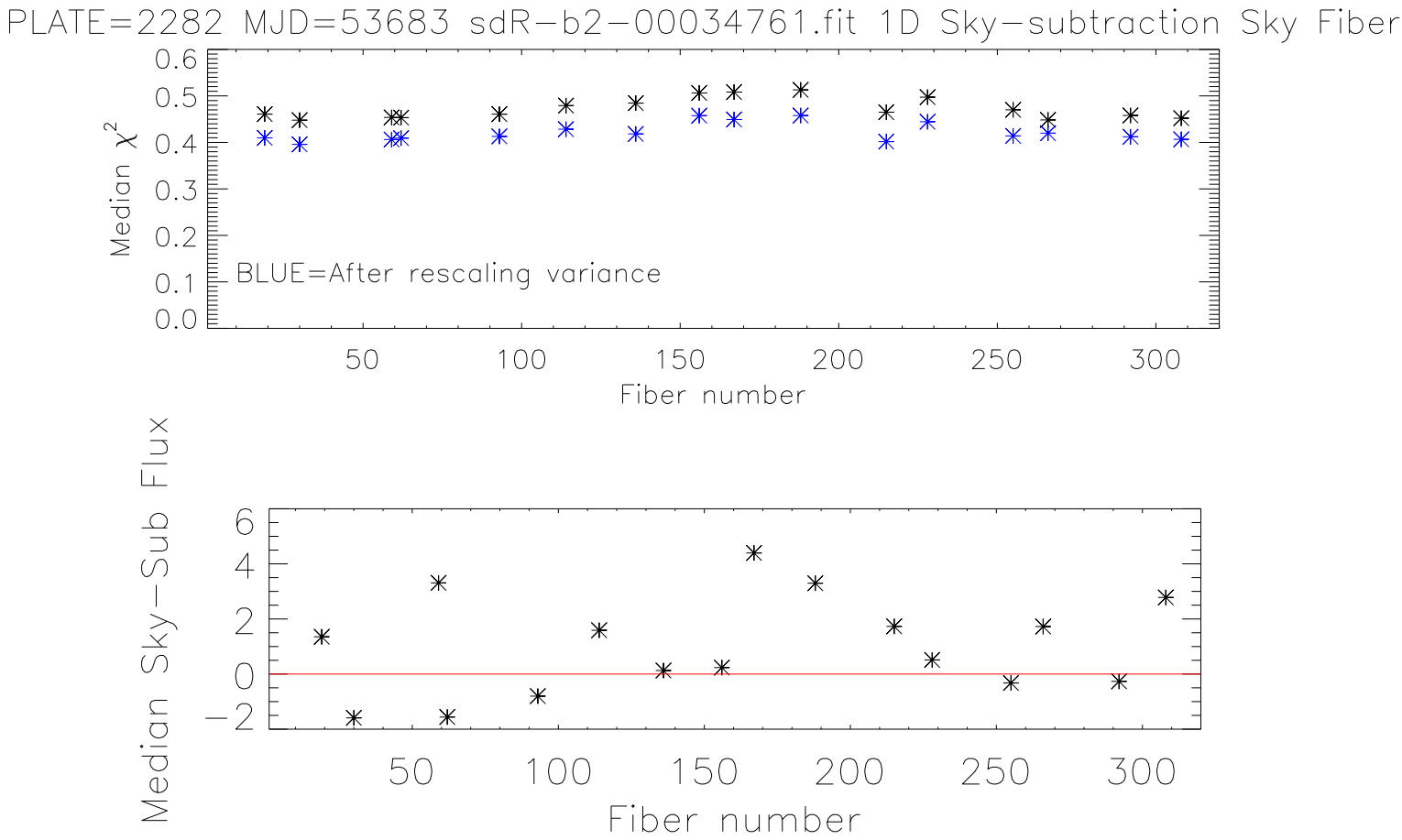

5889.9500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

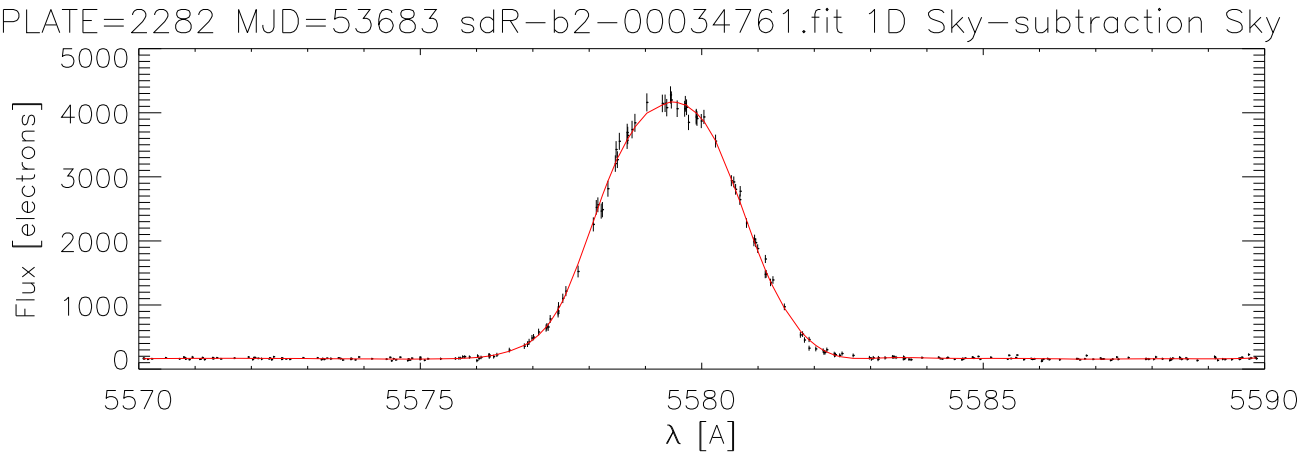

5895.9240
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

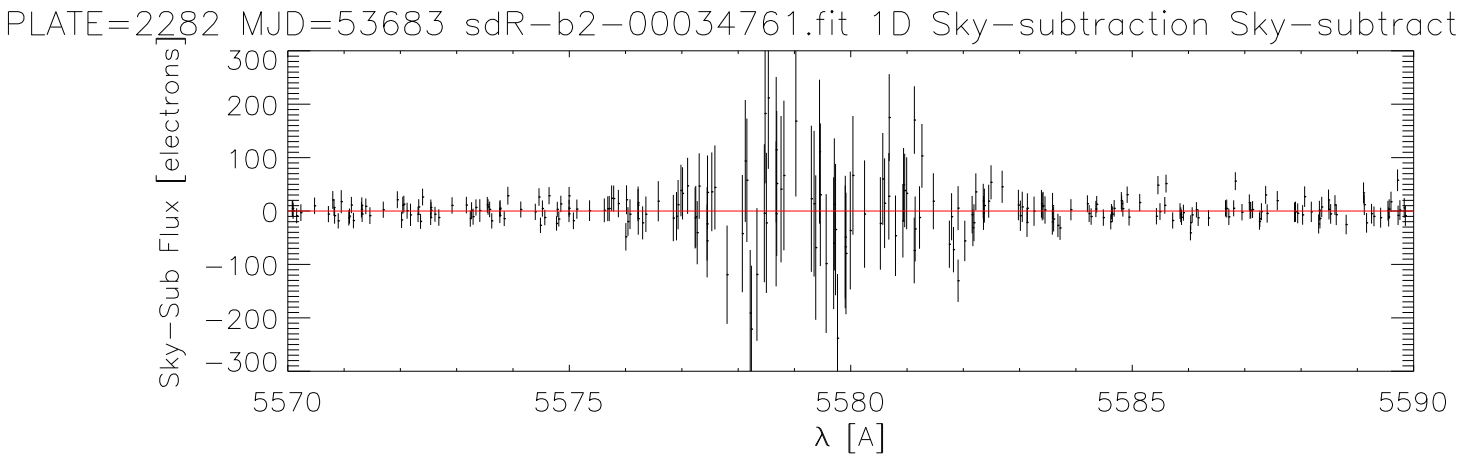

4046.5600
nfib1 16
nfib2 16
stdev 0.085
extra −0.28
4358.3300
nfib1 16
nfib2 16
stdev 0.042
extra −0.30
5460.9400
nfib1 16
nfib2 16
stdev 0.039
extra −0.21
5577.3390
nfib1 16
nfib2 16
stdev 0.014
extra −0.18
5889.9500
nfib1 16
nfib2 16
stdev 0.025
extra −0.12
5895.9240
nfib1 16
nfib2 16
stdev 0.029
extra −0.12
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

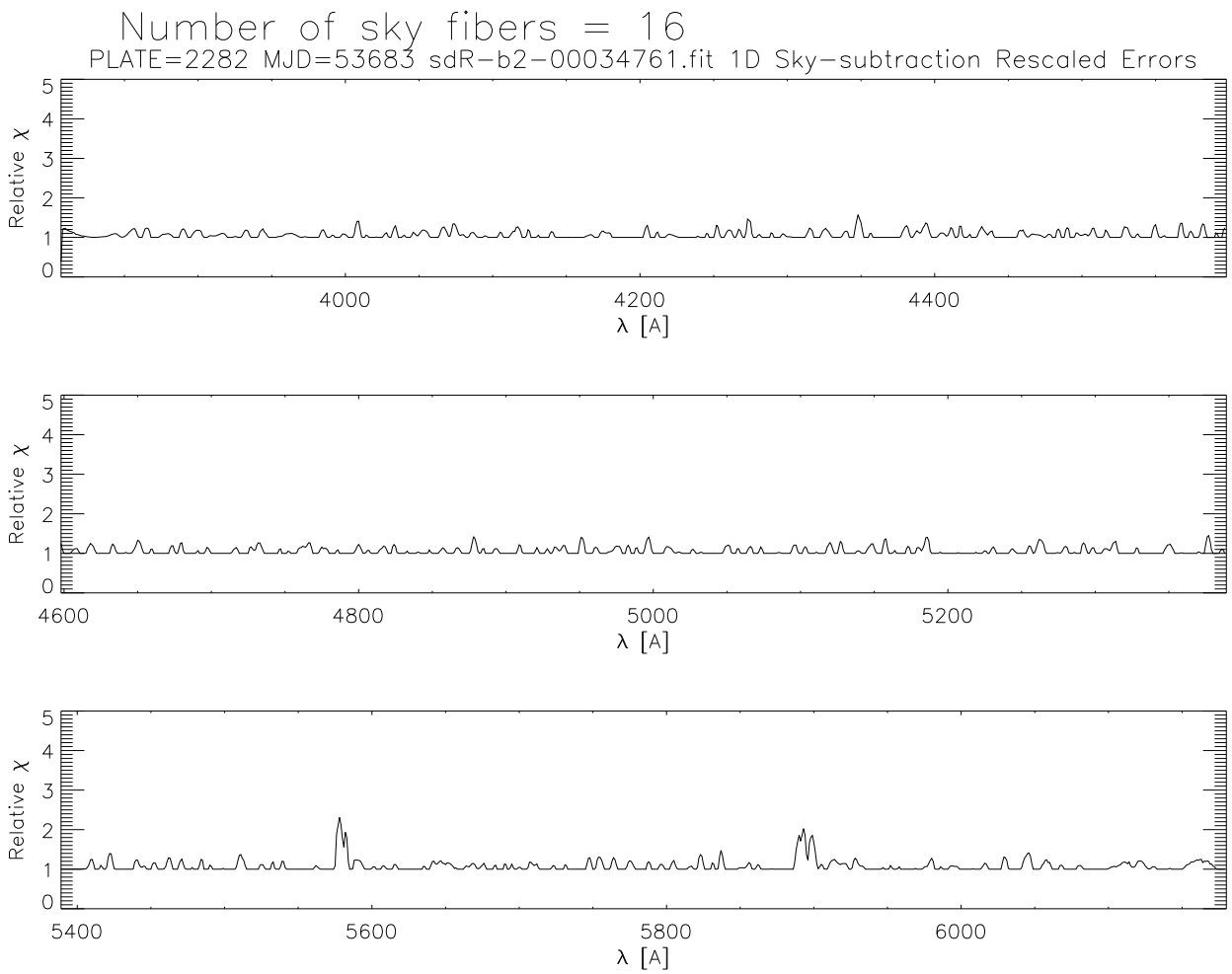

−0.10
−0.15
−0.20
−0.25
−0.30
−0.35
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

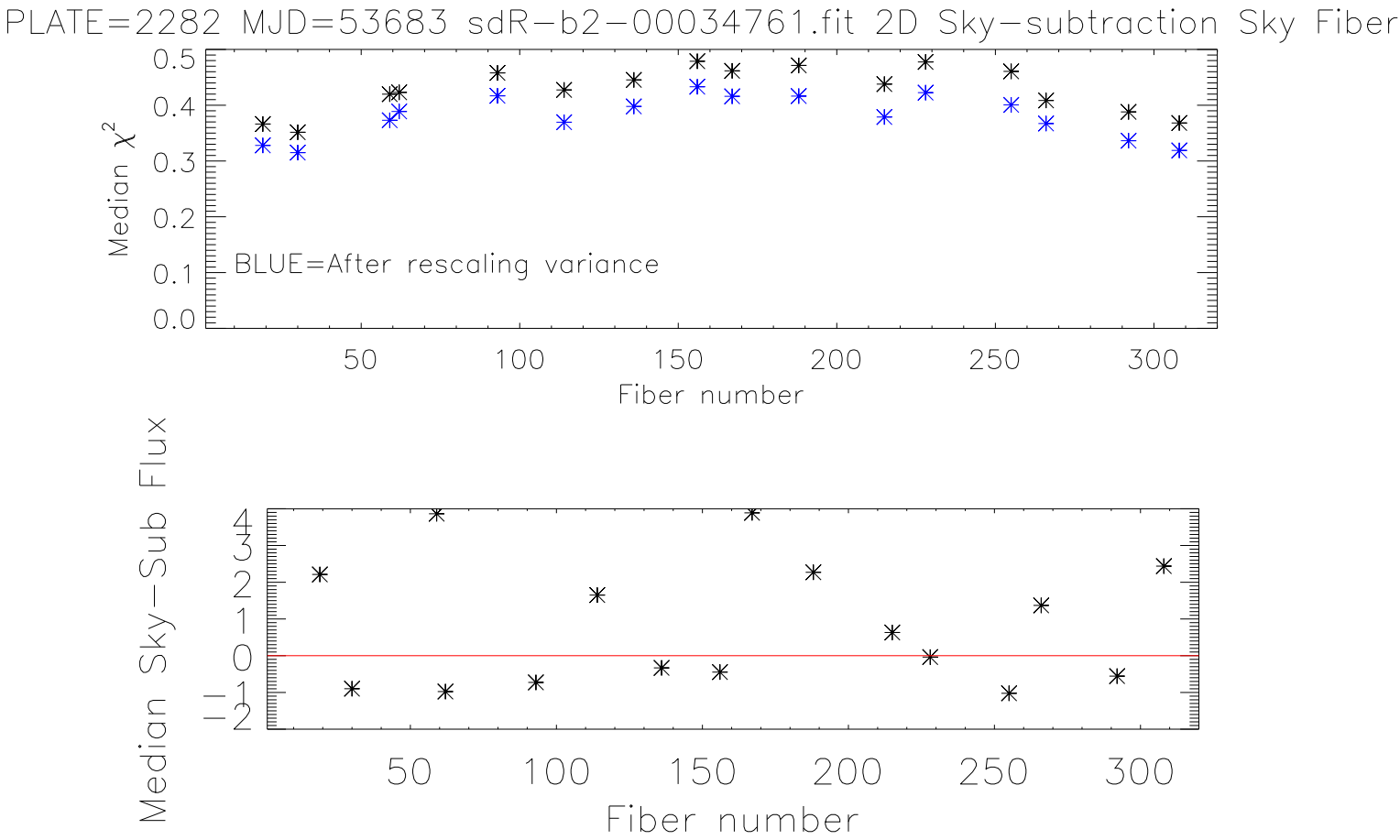

PLATE=2282 MJD=53683 Smooth superflat for sdR-b2-00034761.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
0.980
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

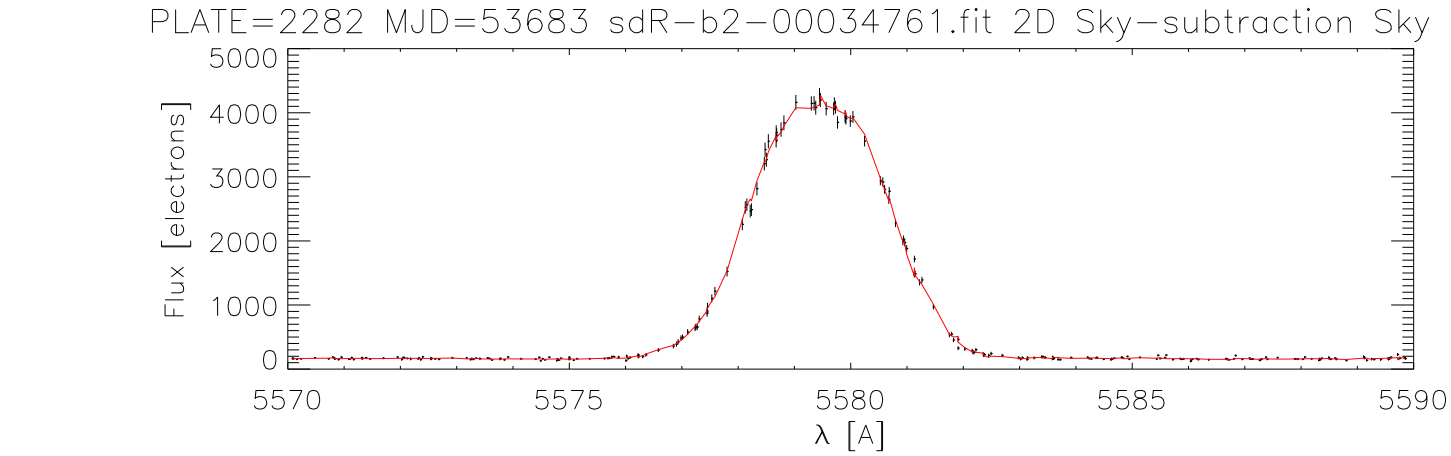

PLATE=2282 MJD=53683 sdR-b2-00034761.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

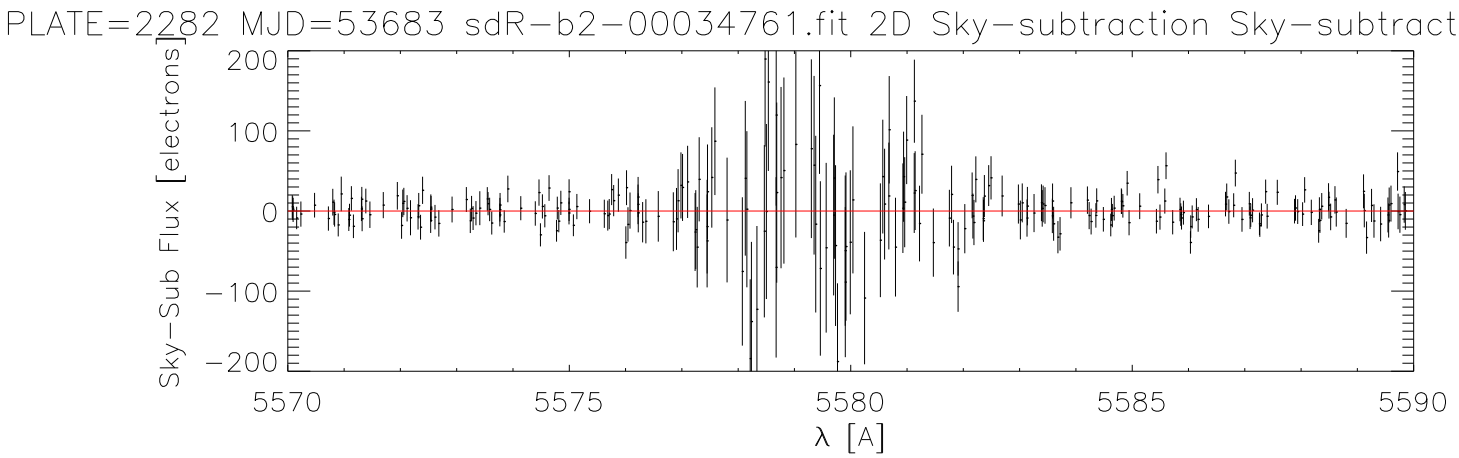

PLATE=2282 MJD=53683 sdR-b2-00034761.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

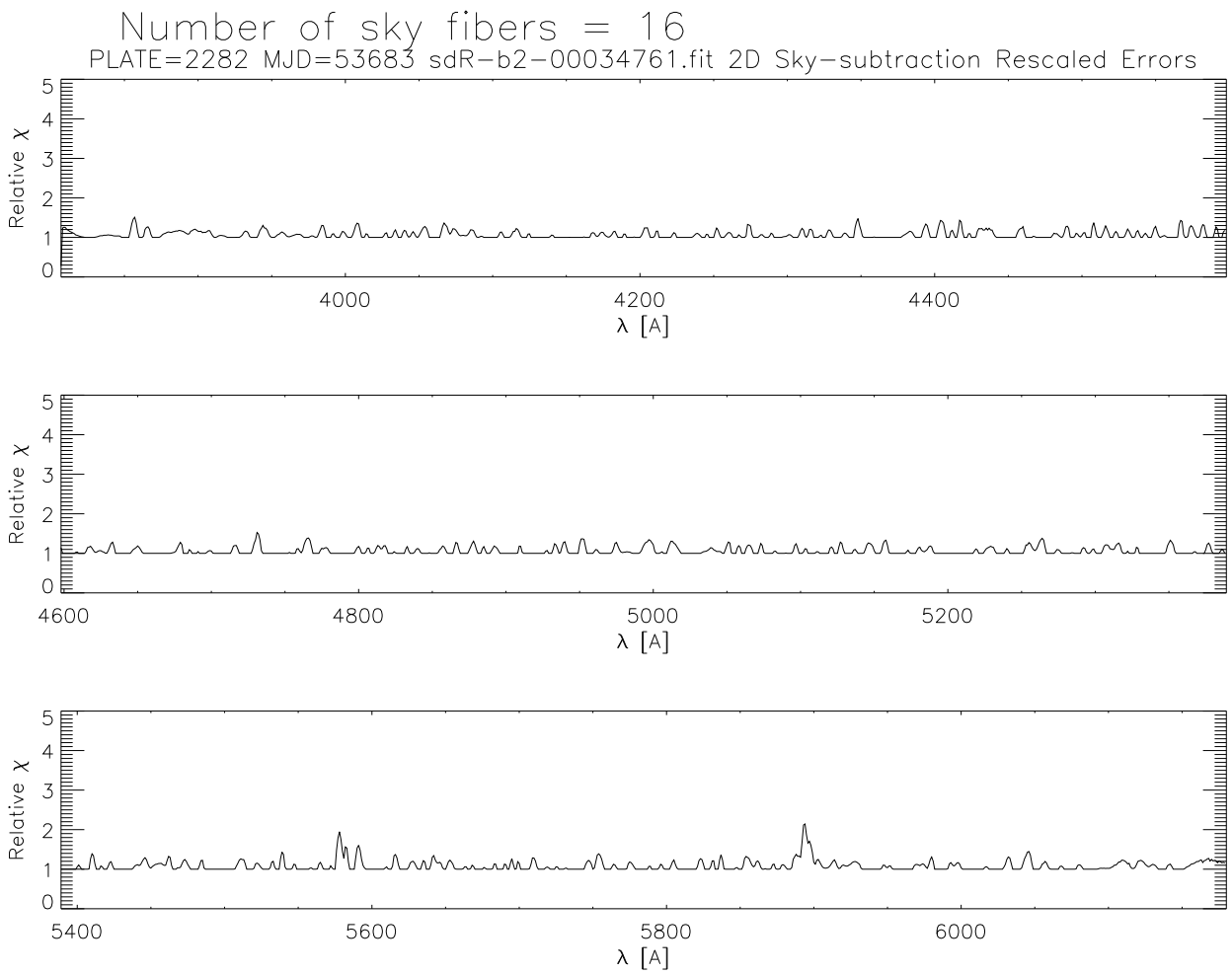

PLATE=2282 MJD=53683 sdR-b2-00034761.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

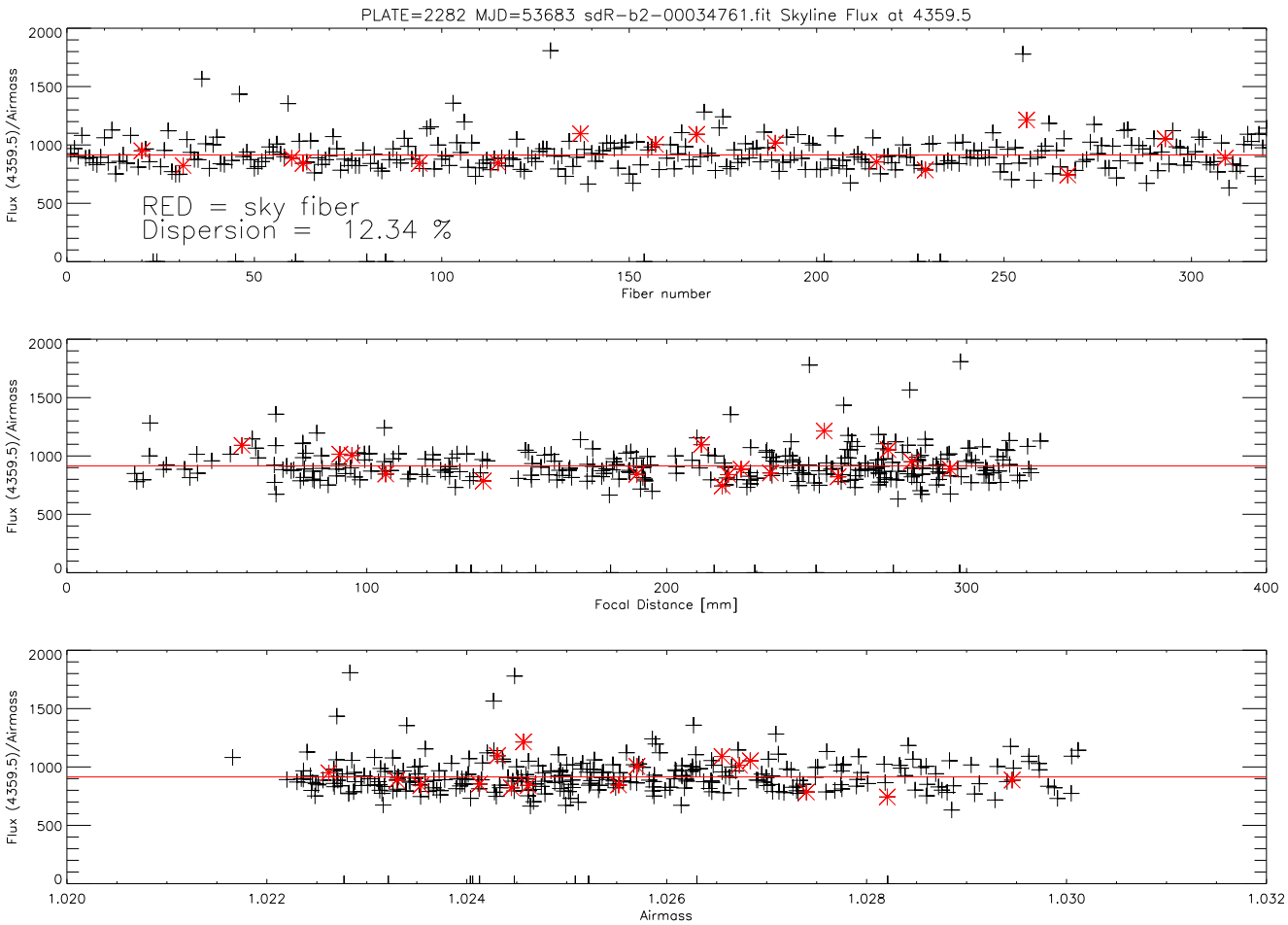

Number of sky fibers = 16
PLATE=2282 MJD=53683 sdR-b2-00034761.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

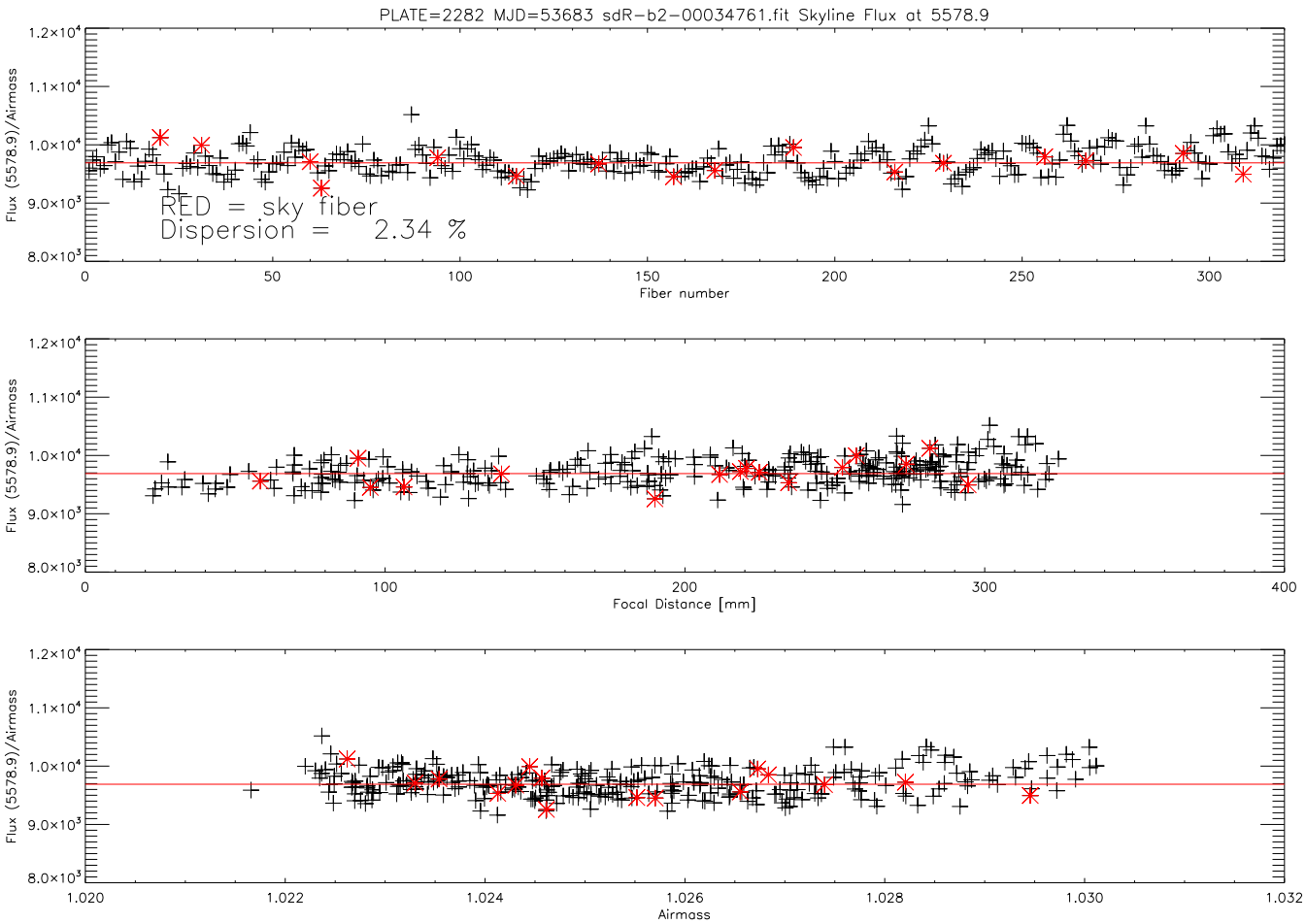

PLATE=2282 MJD=53683 sdR-b2-00034761.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

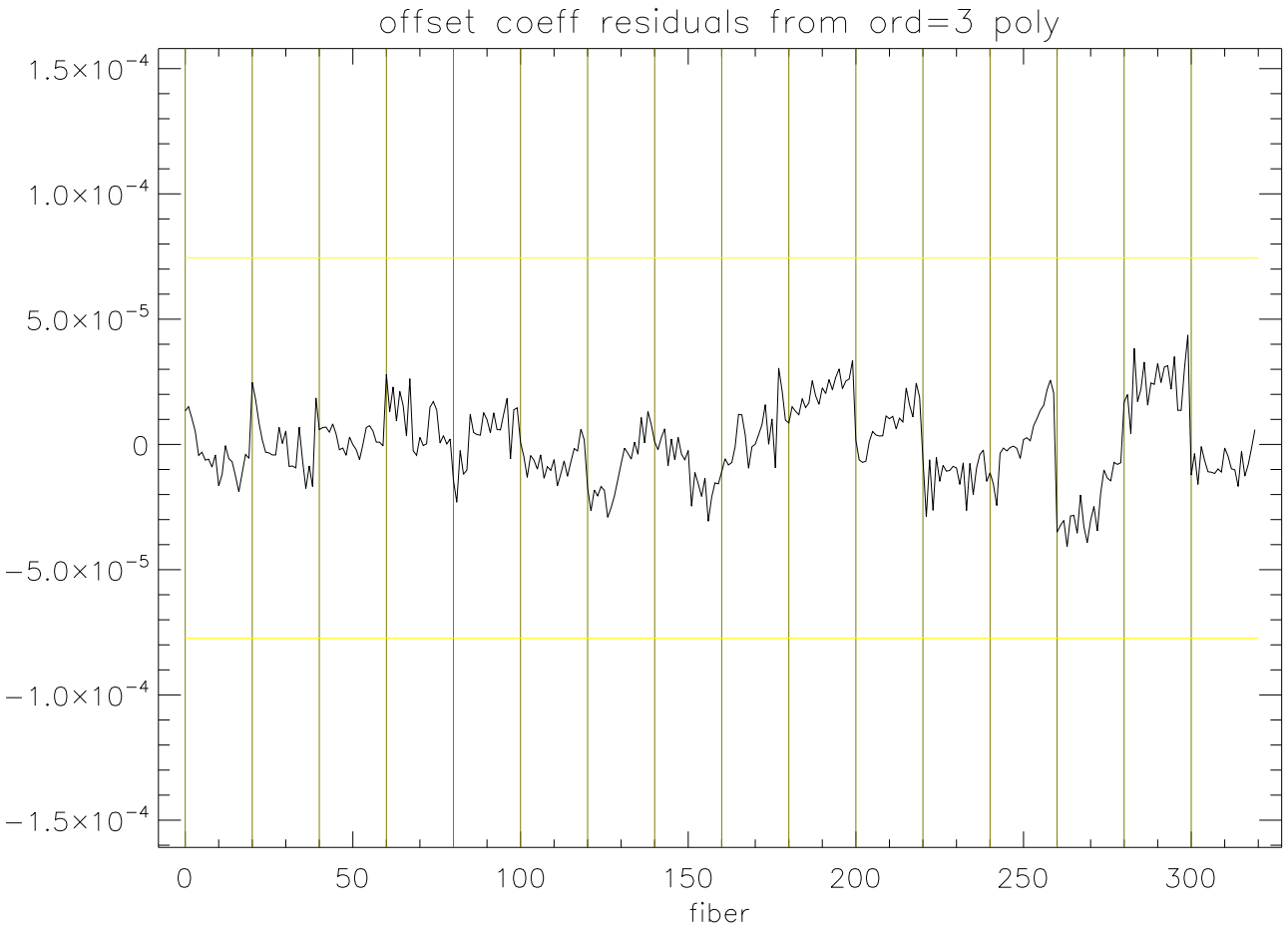

PLATE=2282 MJD=53683 sdR-b2-00034761.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

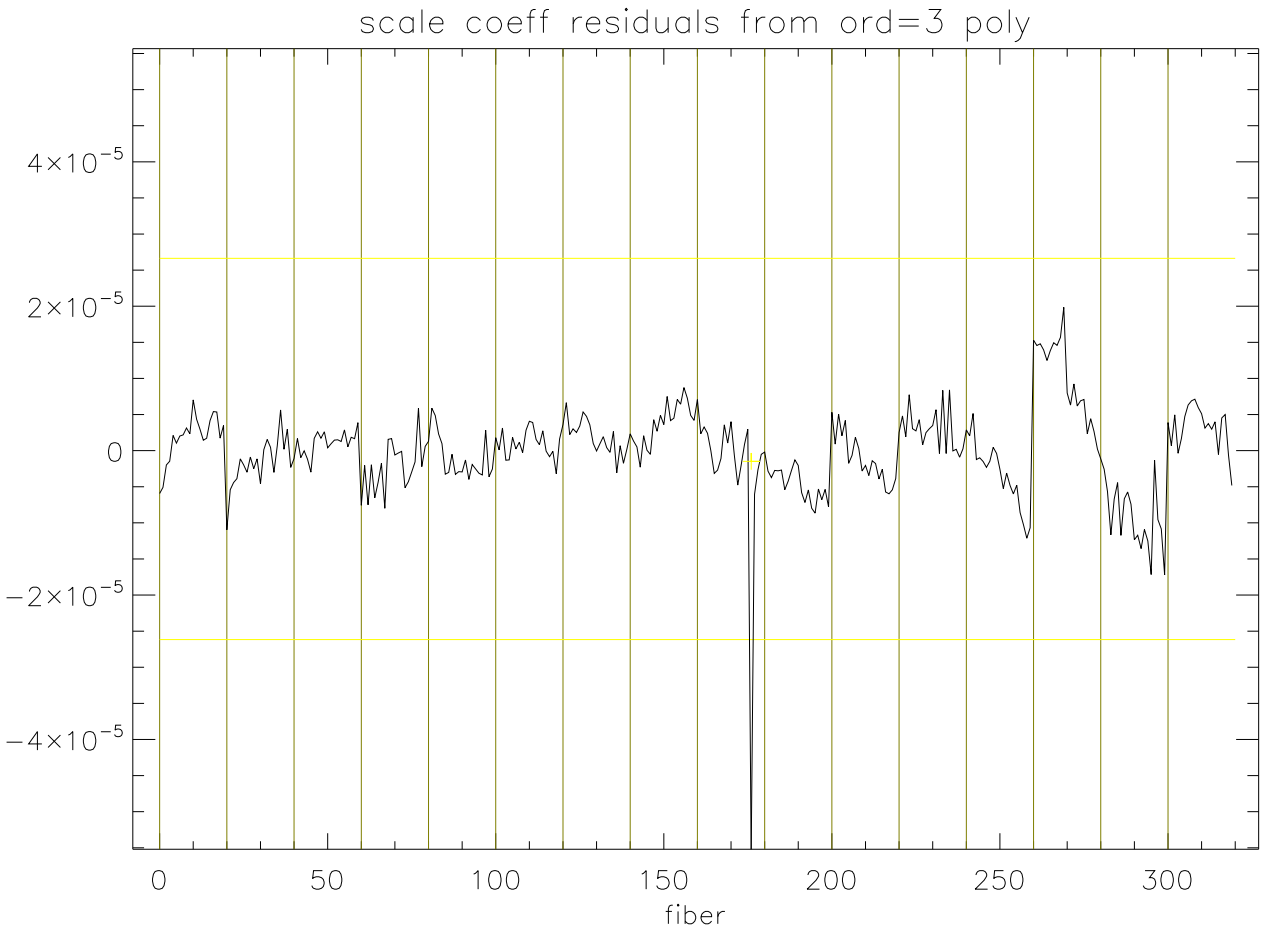

PLATE=2282 MJD=53683 sdR-b2-00034761.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

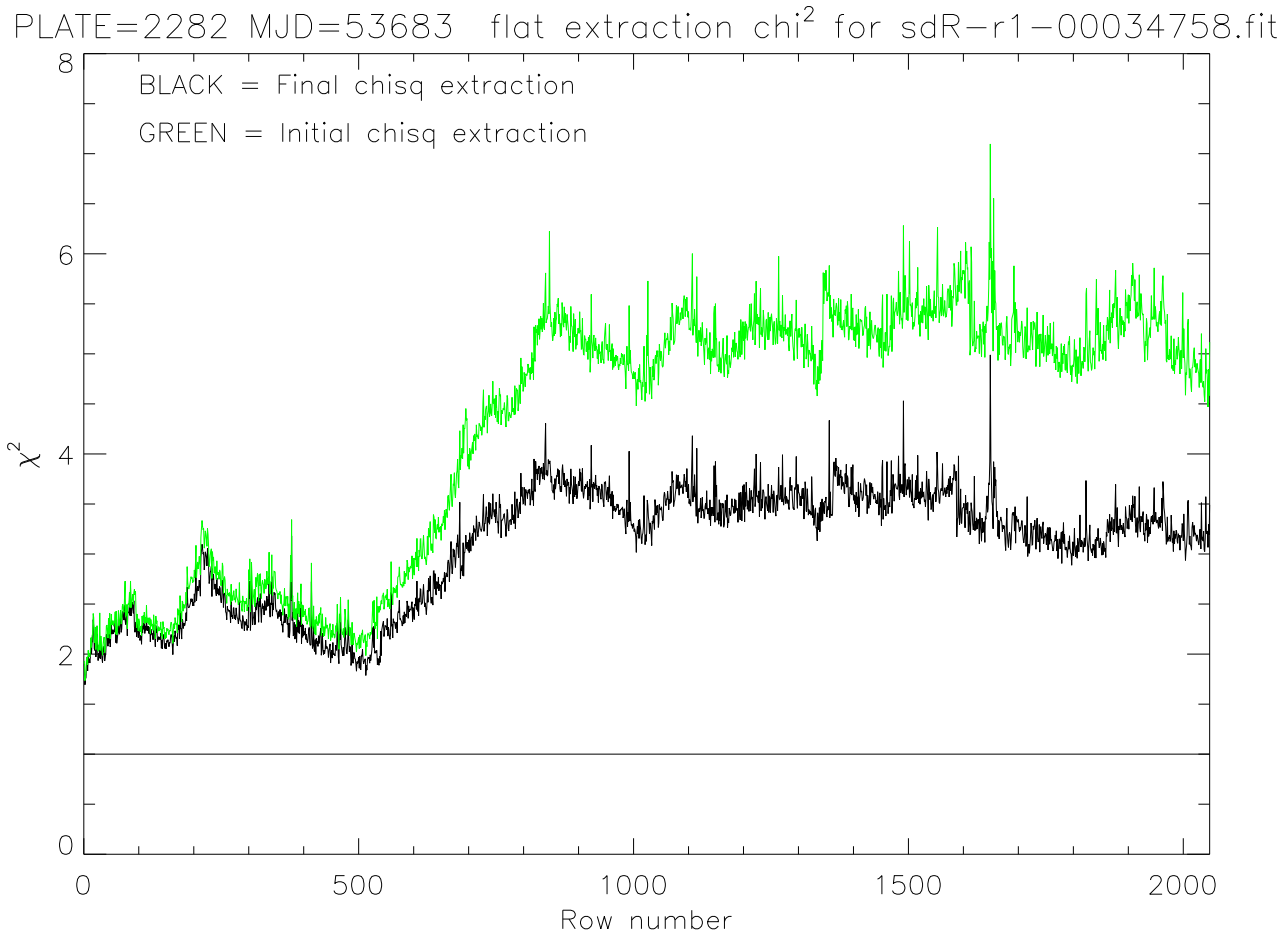

Number of sky fibers = 16
PLATE=2282 MJD=53683 sdR-b2-00034761.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

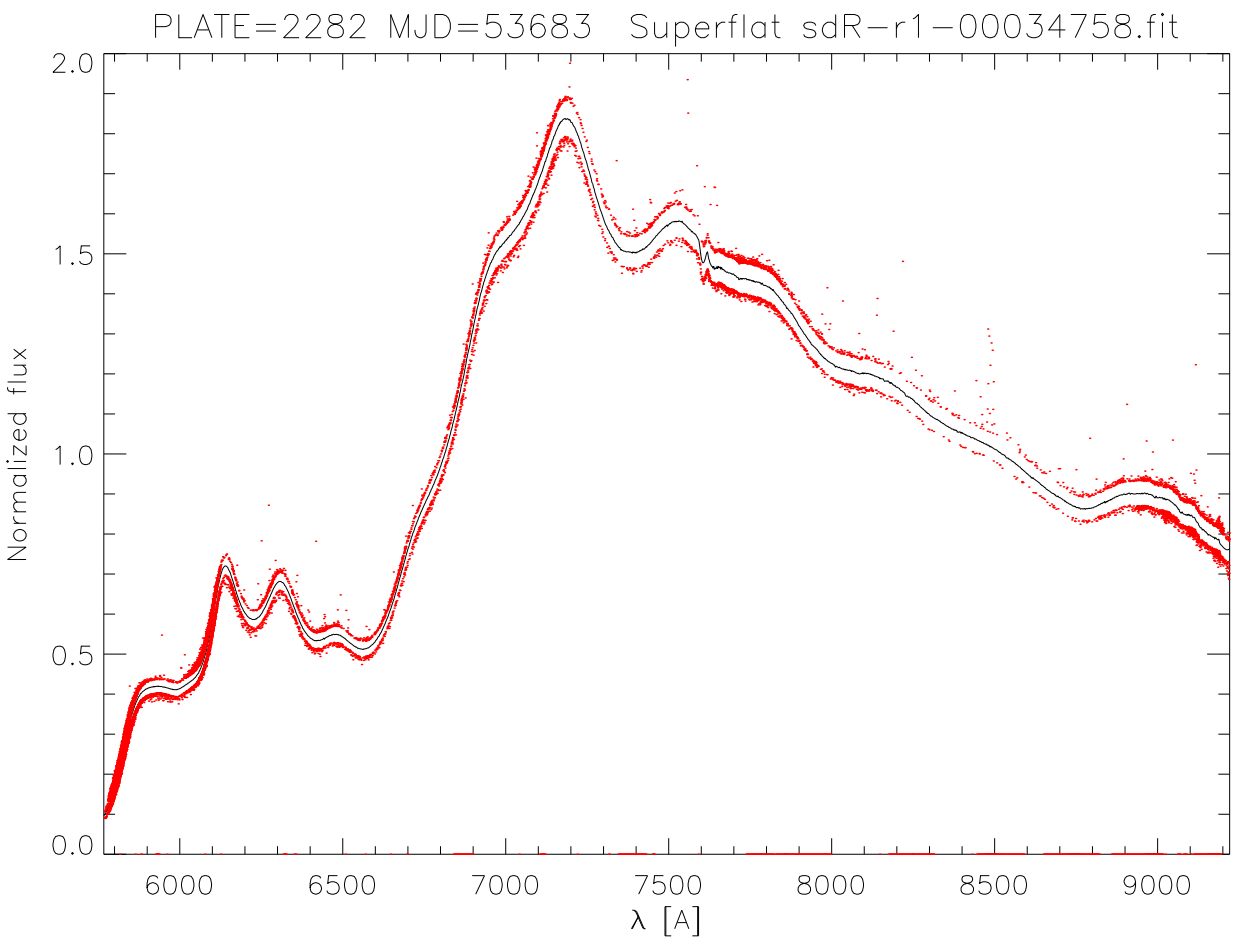

PLATE=2282 MJD=53683 sdR-b2-00034761.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 12.34 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

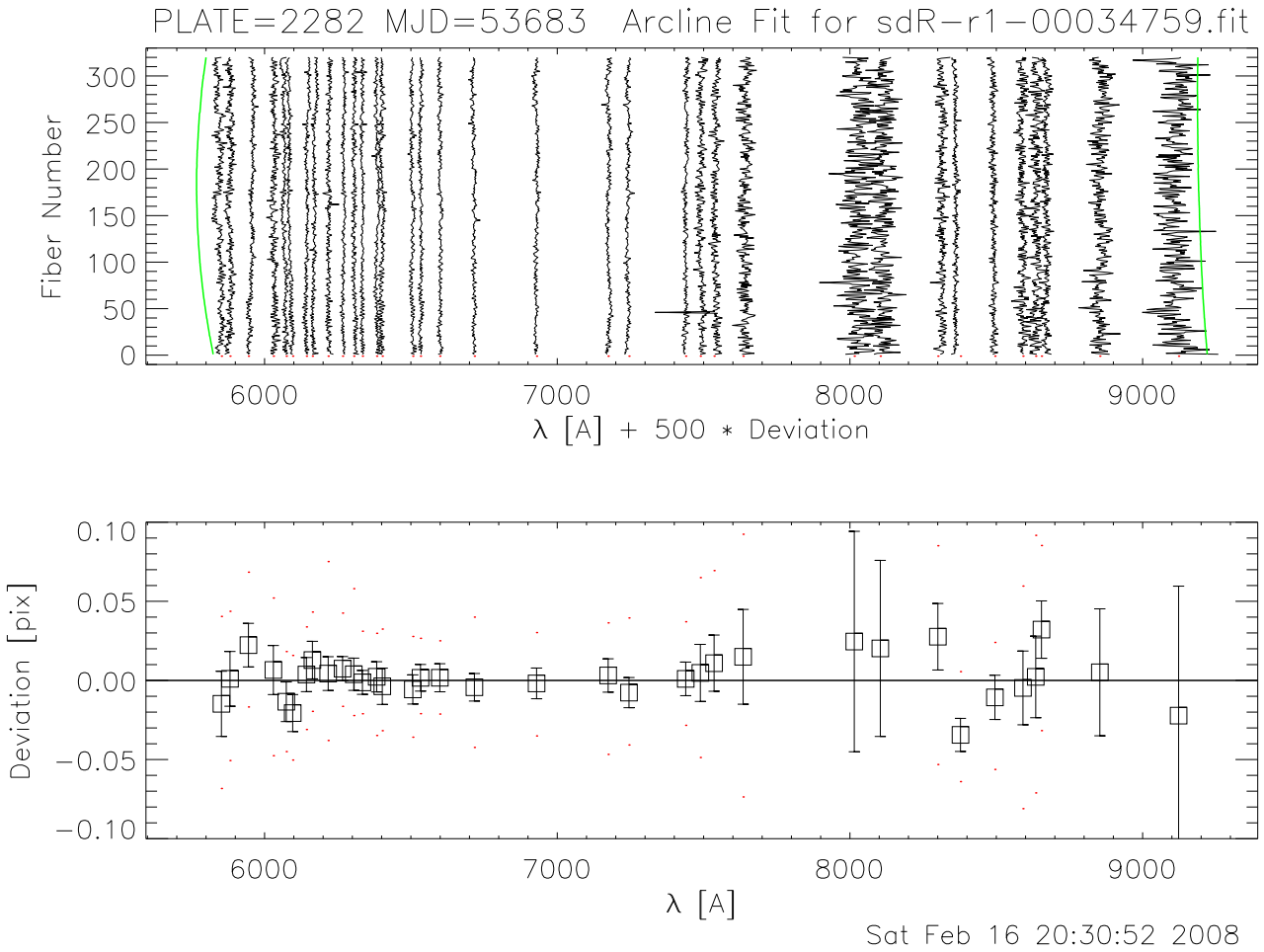

PLATE=2282 MJD=53683 sdR-b2-00034761.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.34 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

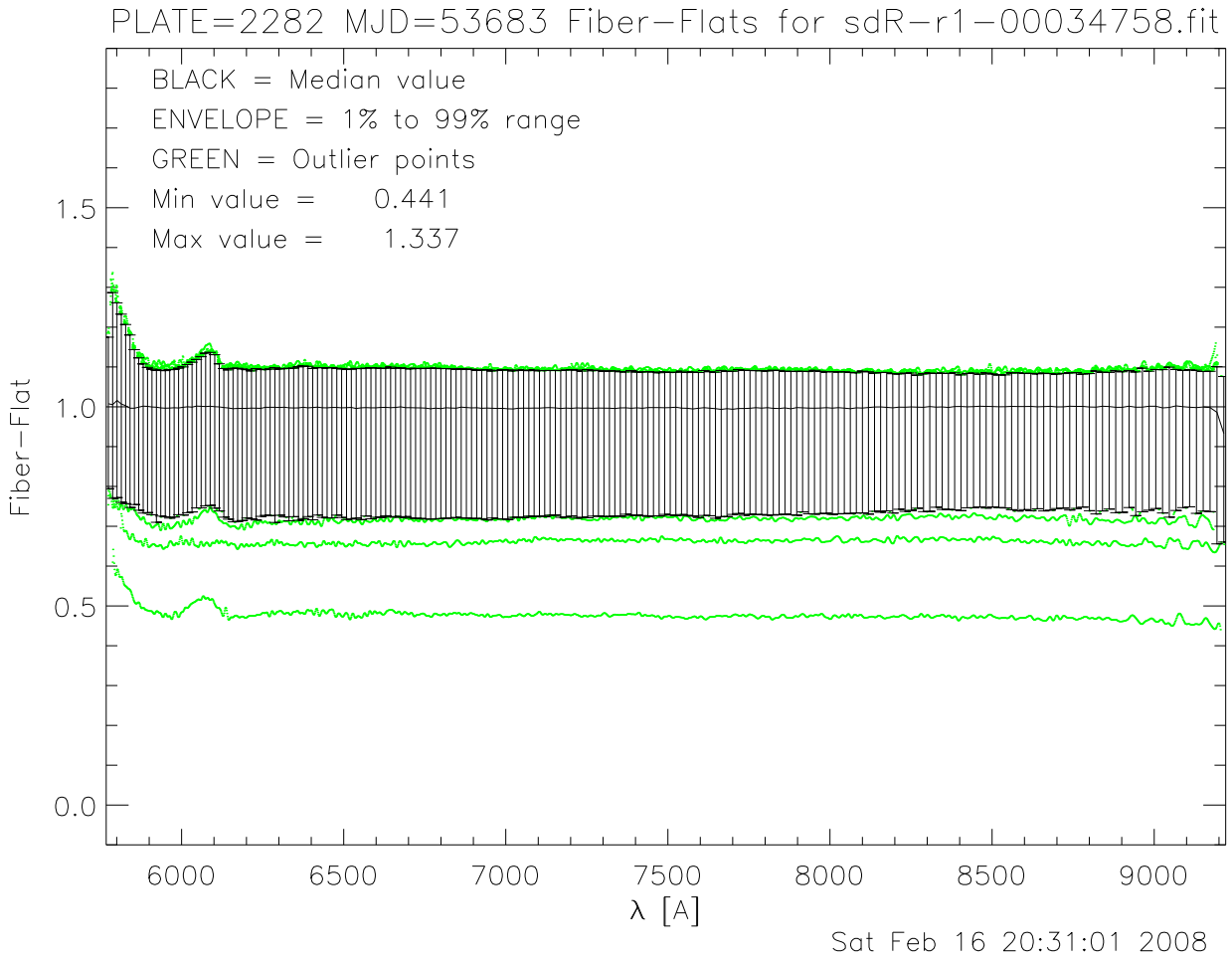

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

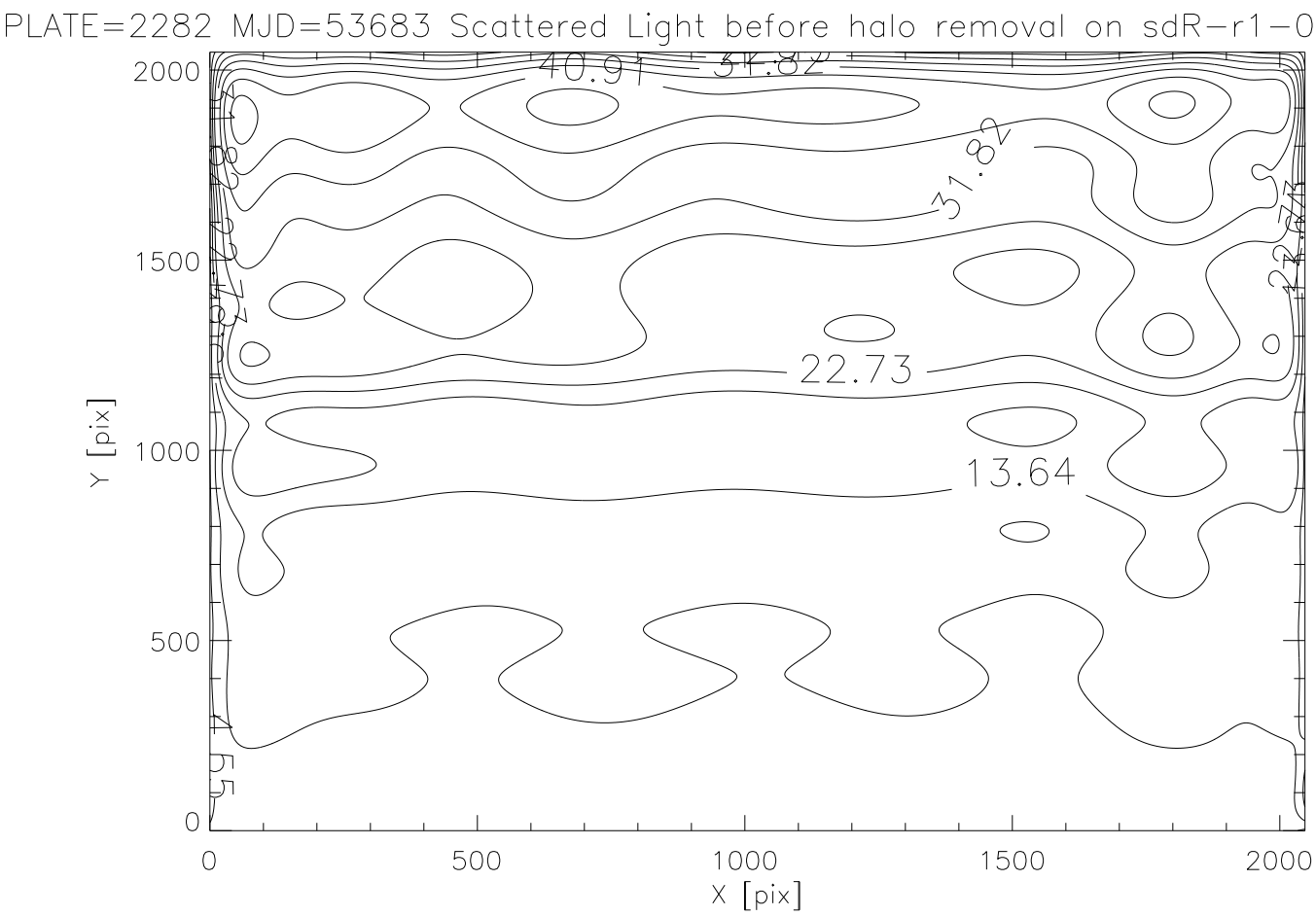

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

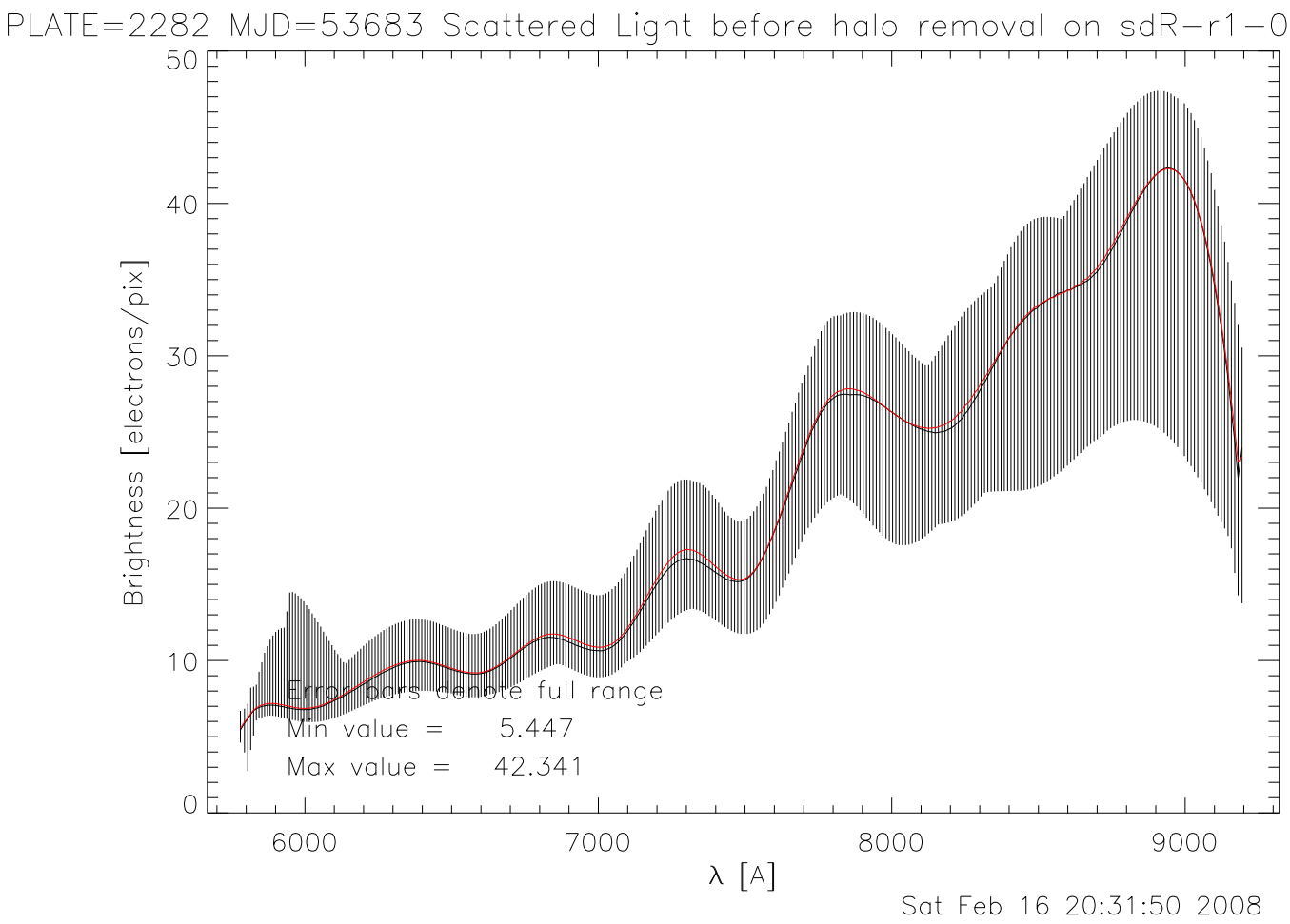

PLATE=2282 MJD=53683 flat extraction chi^2 for sdR−r1−00034758.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

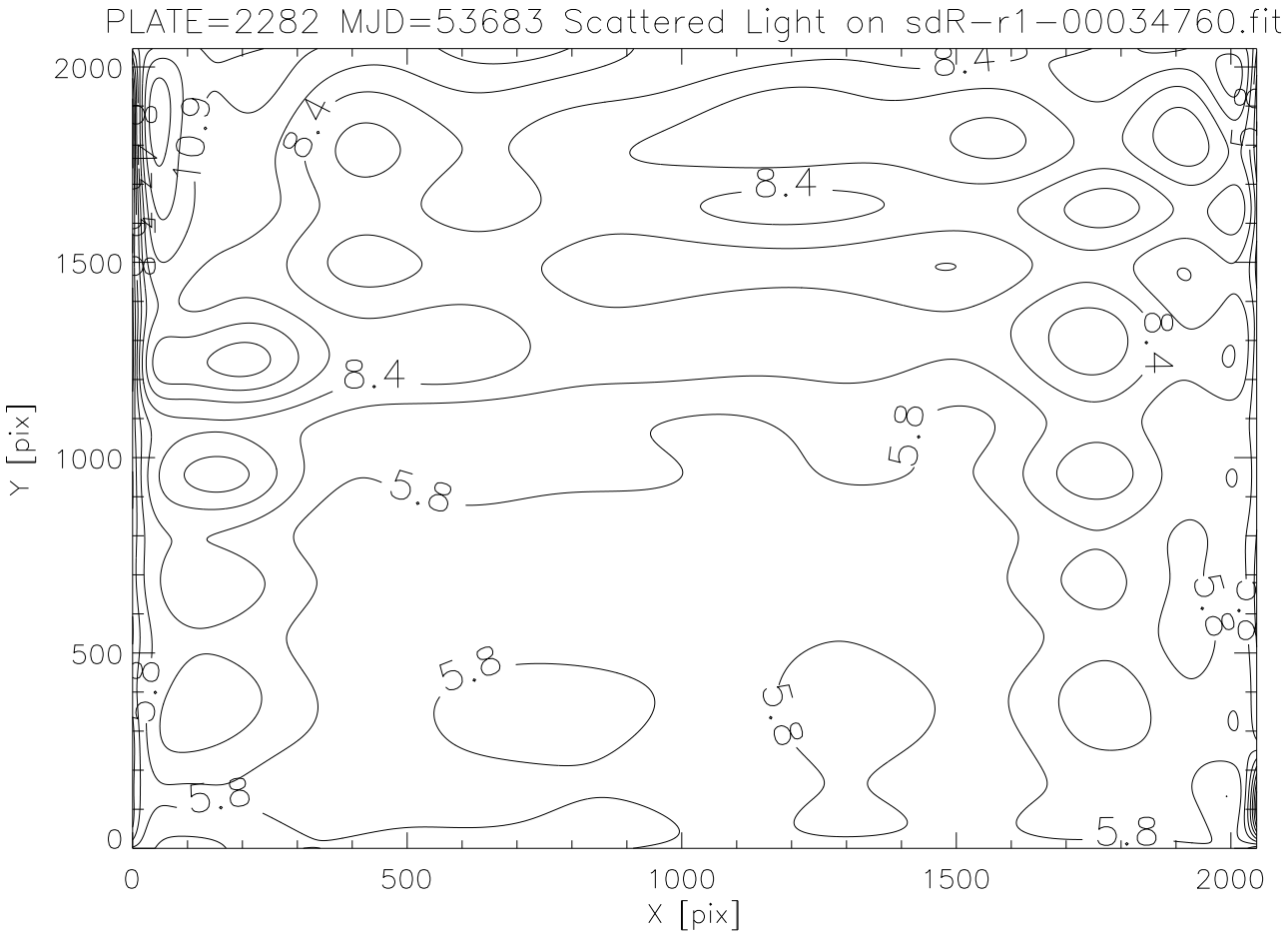

PLATE=2282 MJD=53683 Superflat sdR-r1-00034758.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

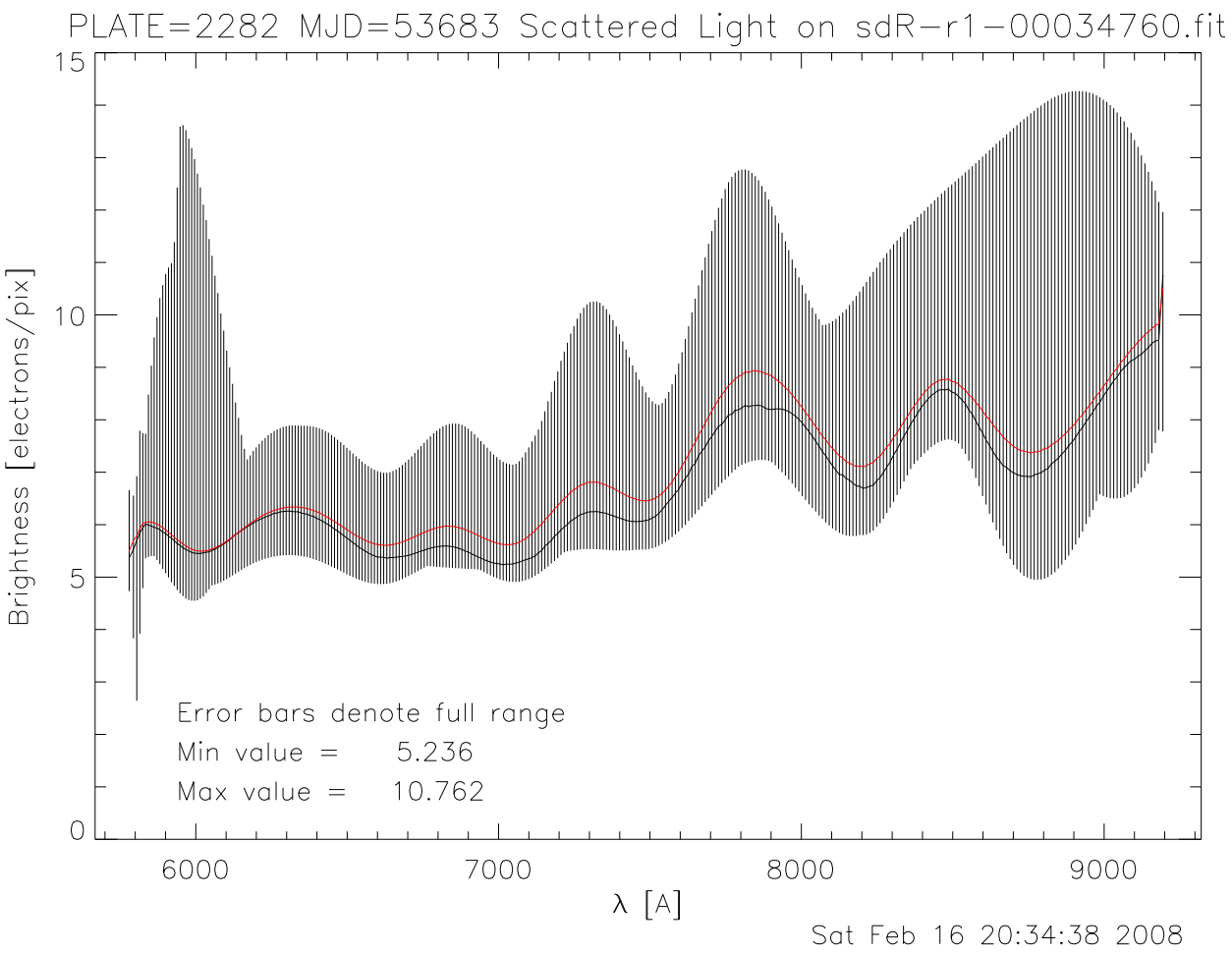

PLATE=2282 MJD=53683 Arcline Fit for sdR-r1-00034759.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Sat Feb 16 20:30:52 2008

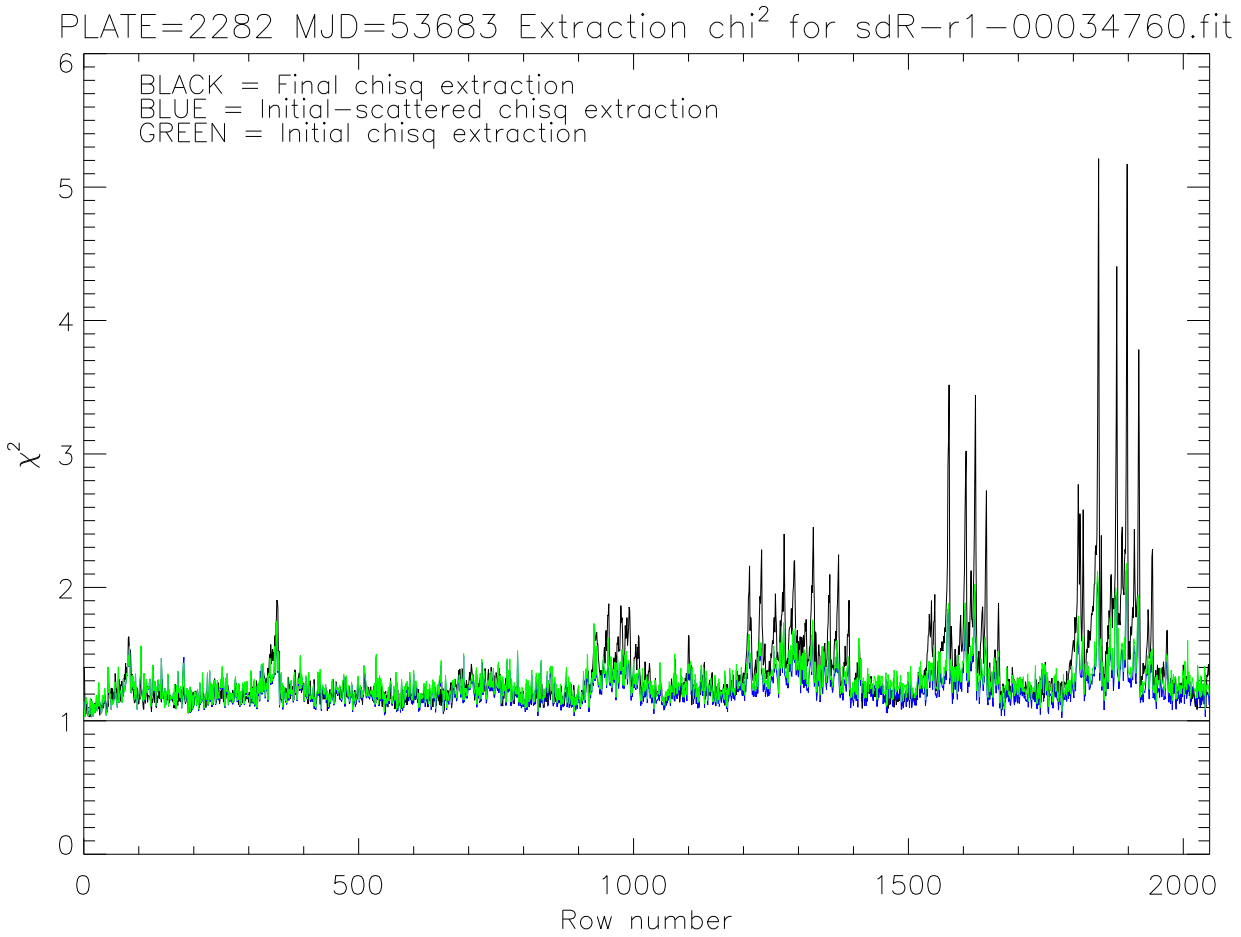

PLATE=2282 MJD=53683 Fiber−Flats for sdR−r1−00034758.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.441
Max value = 1.337
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sat Feb 16 20:31:01 2008

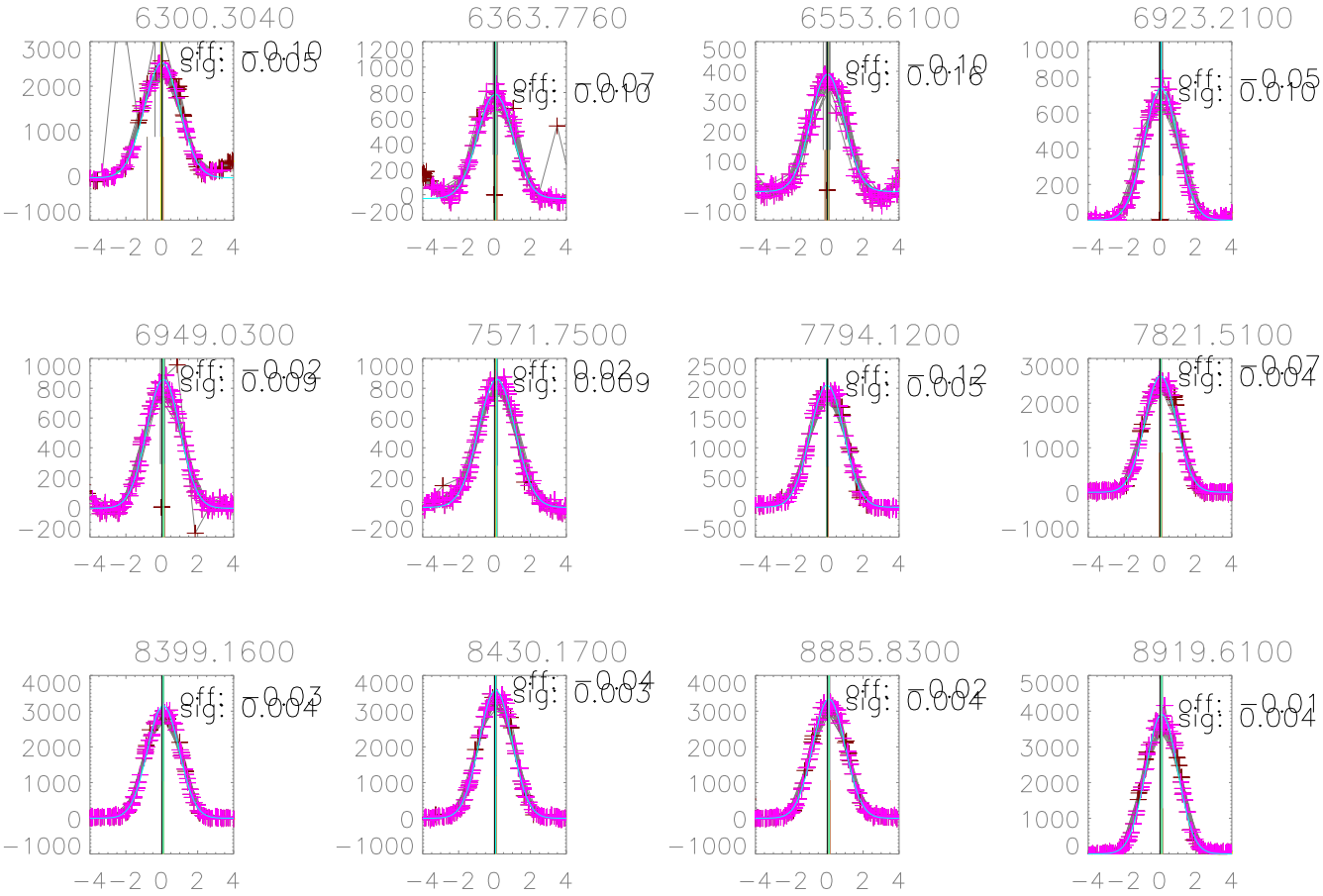

PLATE=2282 MJD=53683 Scattered Light before halo removal on sdR-r1-00034760.fi
40.91
31.82
22.73
13.64
Y [pix]
X [pix]
0
500
1000
1500
2000

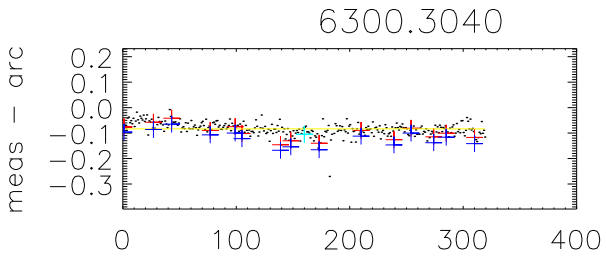

PLATE=2282 MJD=53683 Scattered Light before halo removal on sdR-r1-00034760.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.447
Max value = 42.341
Sat Feb 16 20:31:50 2008

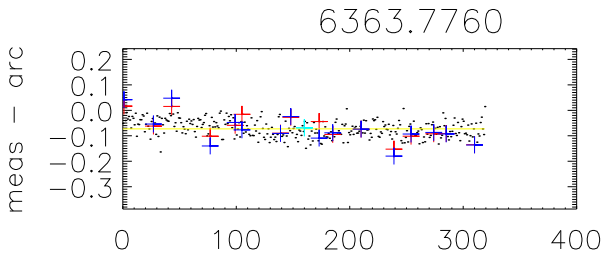

PLATE=2282 MJD=53683 Scattered Light on sdR-r1-00034760.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
8.4
5.8

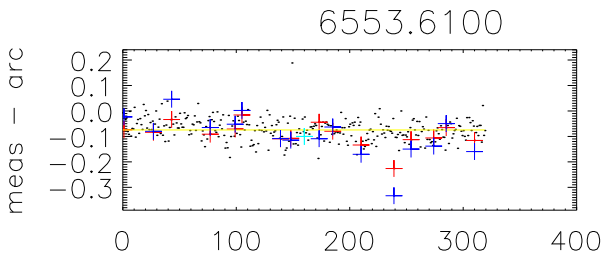

PLATE=2282 MJD=53683 Scattered Light on sdR-r1-00034760.fit
Brightness [electrons/pix]
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 5.236
Max value = 10.762
Sat Feb 16 20:34:38 2008

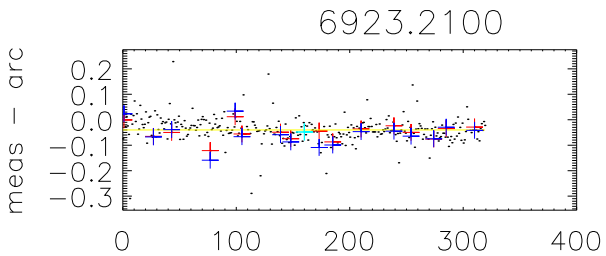

PLATE=2282 MJD=53683 Extraction chi^2 for sdR−r1−00034760.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

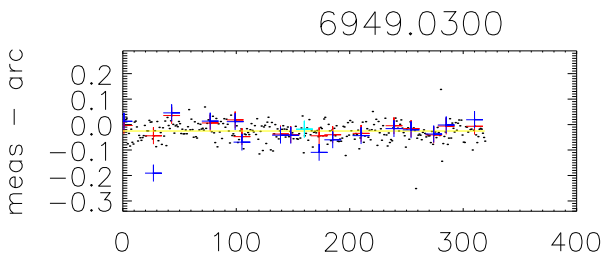

6300.3040
off: −0.10
sig: 0.005
6363.7760
off: −0.07
sig: 0.010
6553.6100
off: −0.10
sig: 0.016
6923.2100
off: −0.05
sig: 0.010
6949.0300
off: −0.02
sig: 0.009
7571.7500
off: 0.02
sig: 0.009
7794.1200
off: −0.12
sig: 0.005
7821.5100
off: −0.07
sig: 0.004
8399.1600
off: −0.03
sig: 0.004
8430.1700
off: −0.04
sig: 0.003
8885.8300
off: −0.02
sig: 0.004
8919.6100
off: −0.01
sig: 0.004

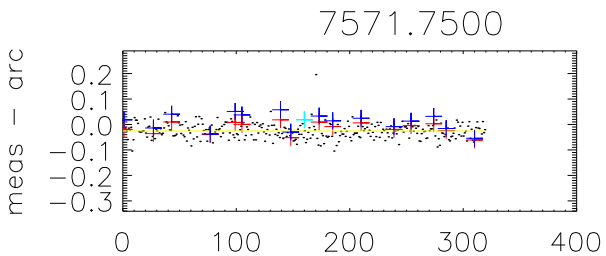

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

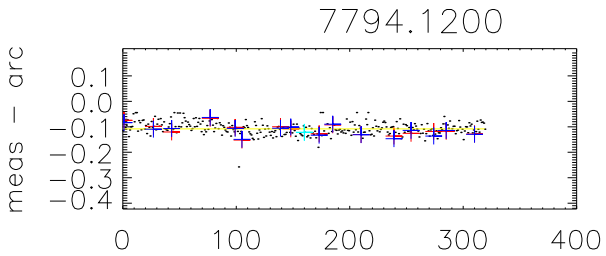

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

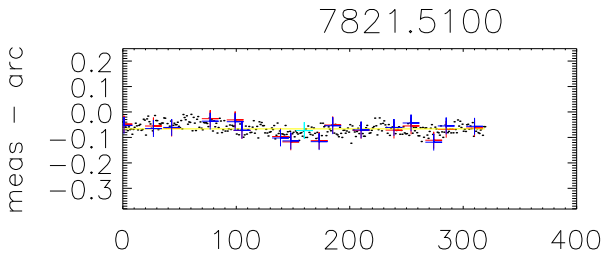

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

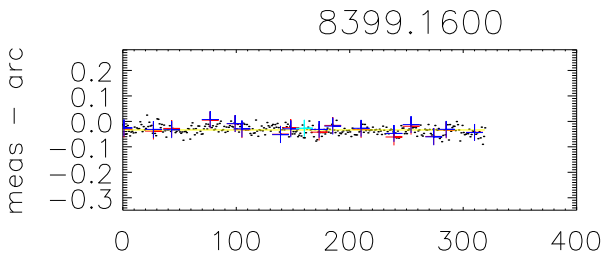

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

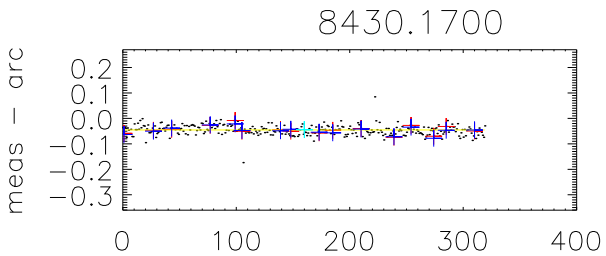

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

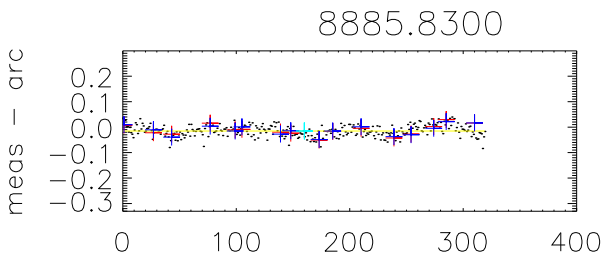

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

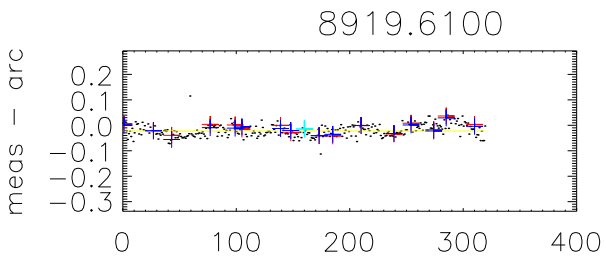

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

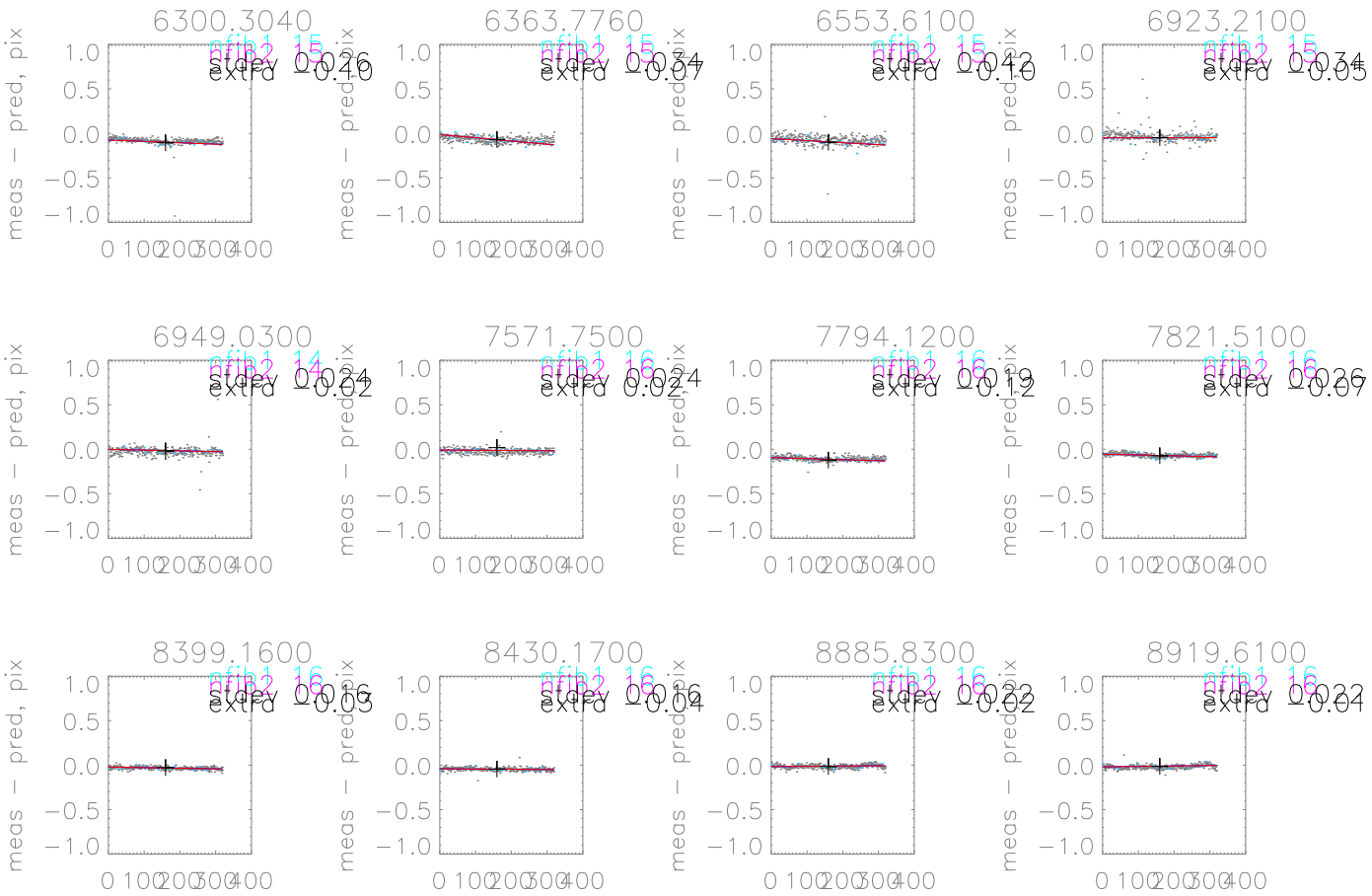

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

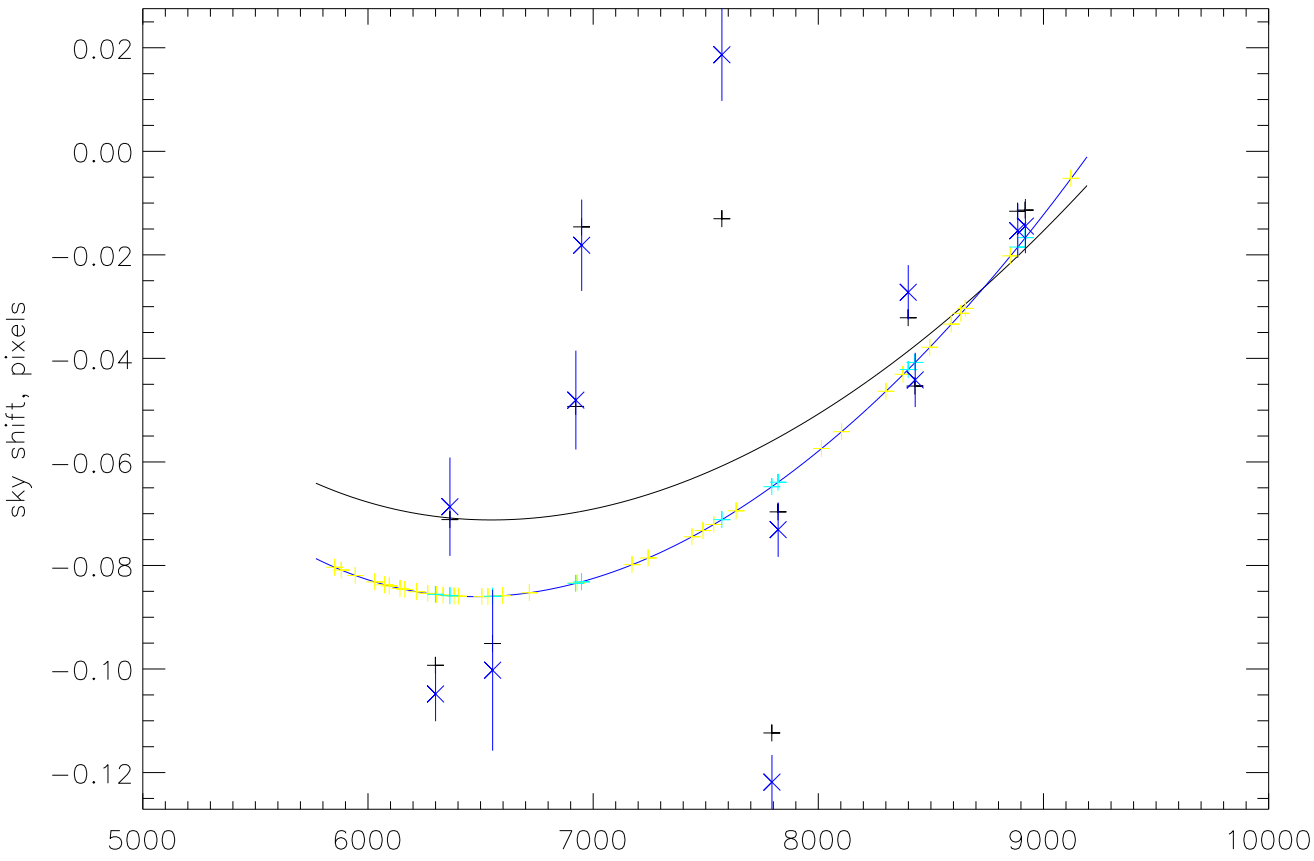

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

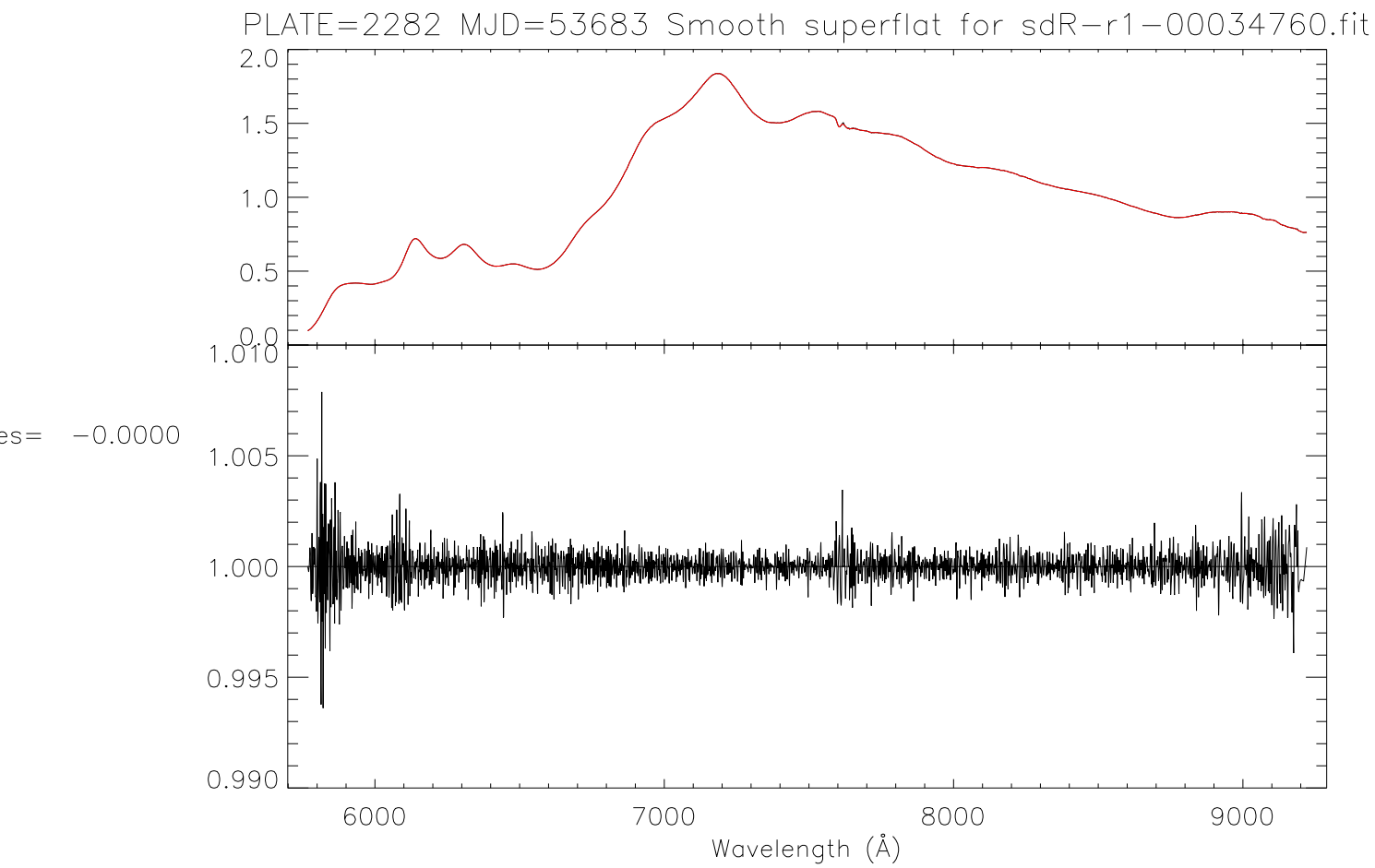

8430.1700
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

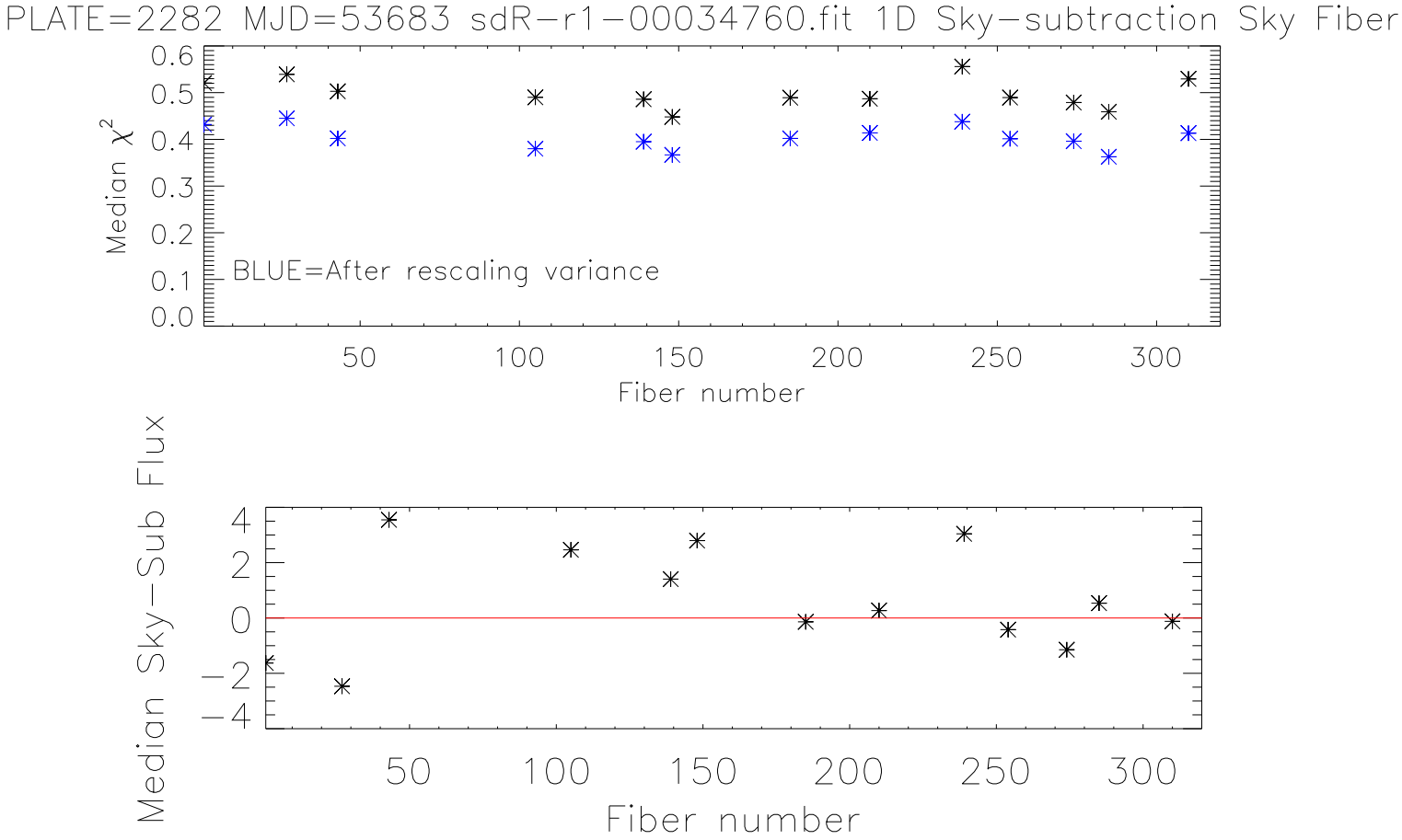

8885.8300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

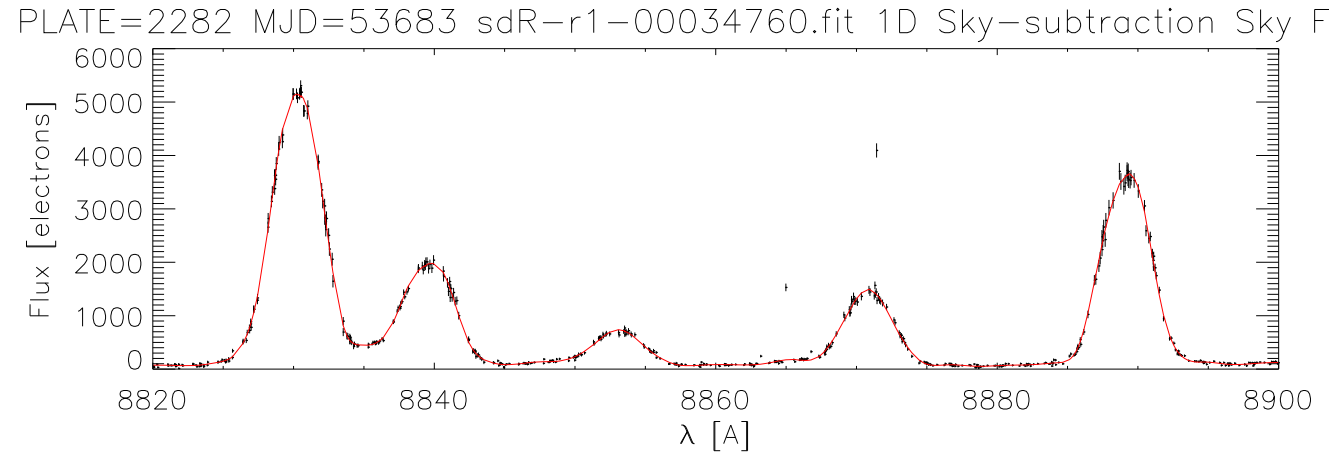

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

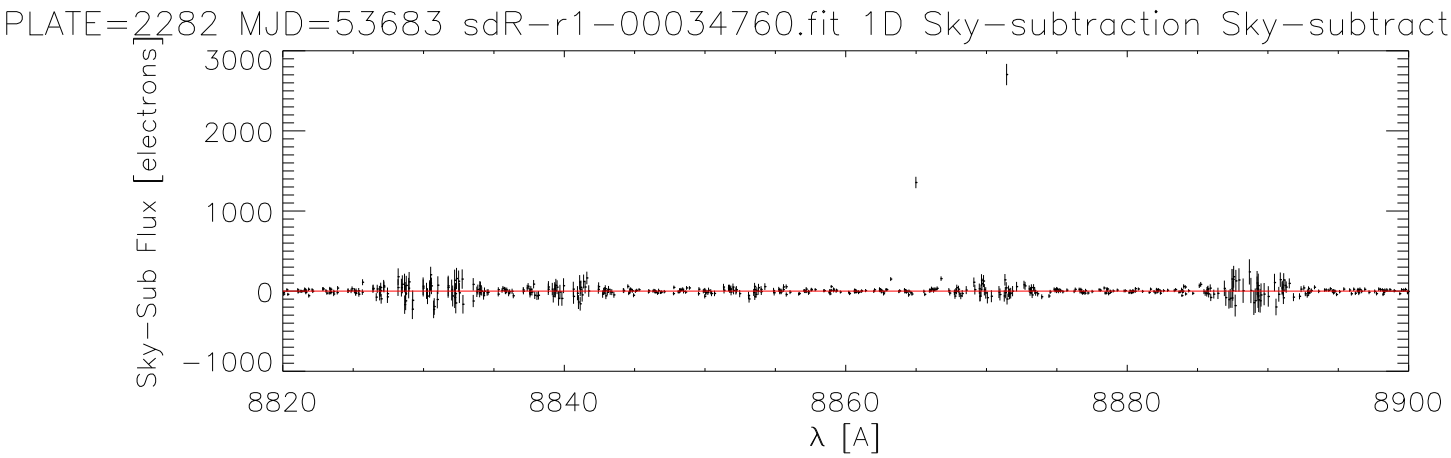

6300.3040
mfhi1 15
stdev 0.026
extrd −0.40
6363.7760
mfhi1 15
stdev 0.034
extrd −0.07
6553.6100
mfhi1 15
stdev 0.042
extrd −0.10
6923.2100
mfhi1 15
stdev 0.034
extrd −0.05
6949.0300
mfhi1 14
stdev 0.034
extrd −0.02
7571.7500
mfhi1 16
stdev 0.024
extrd 0.02
7794.1200
mfhi1 16
stdev 0.019
extrd −0.12
7821.5100
mfhi1 16
stdev 0.026
extrd −0.07
8399.1600
mfhi1 16
stdev 0.016
extrd −0.03
8430.1700
mfhi1 16
stdev 0.016
extrd −0.04
8885.8300
mfhi1 16
stdev 0.022
extrd −0.02
8919.6100
mfhi1 16
stdev 0.022
extrd −0.04
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

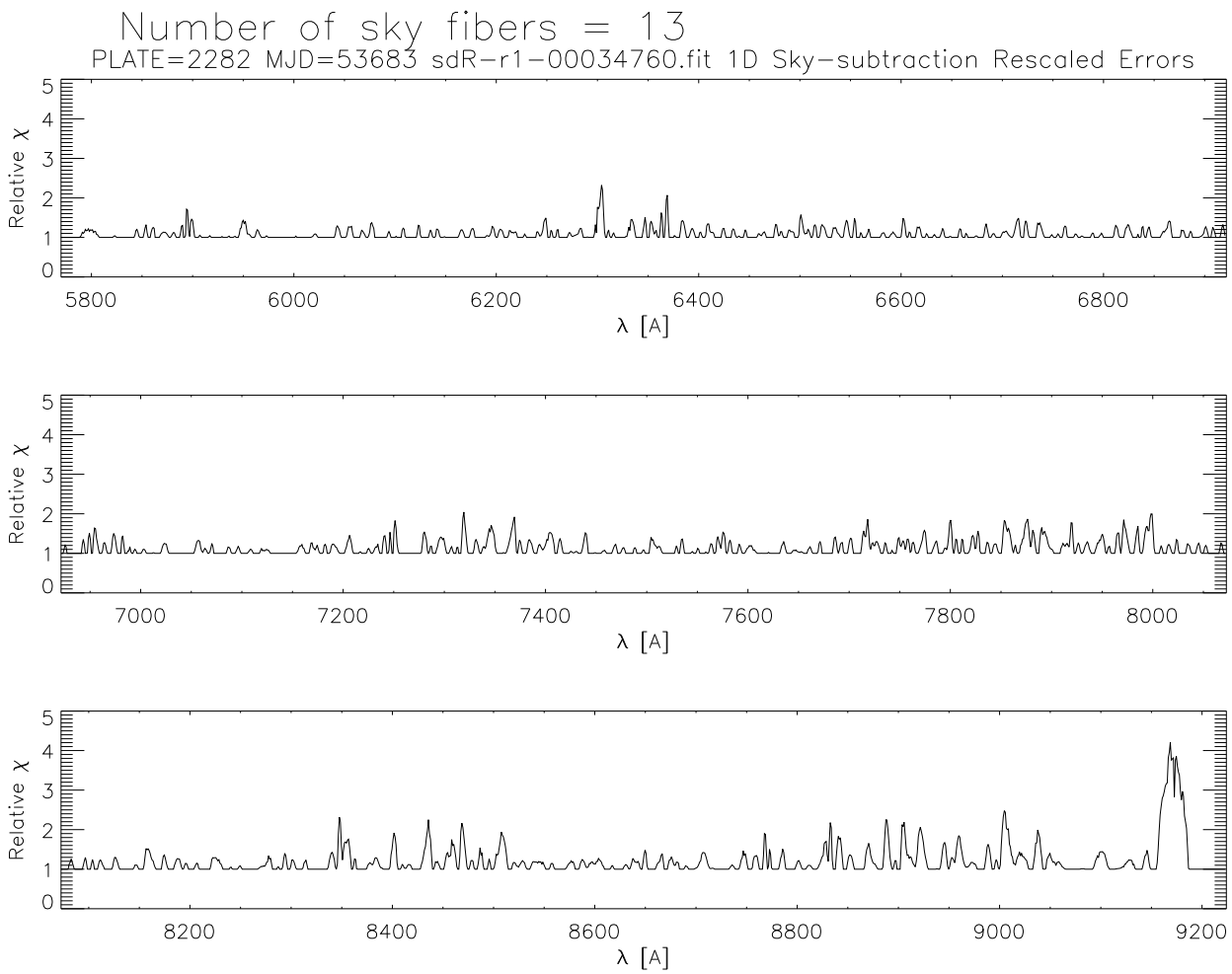

sky shift, pixels
0.02
0.00
−0.02
−0.04
−0.06
−0.08
−0.10
−0.12
5000
6000
7000
8000
9000
10000

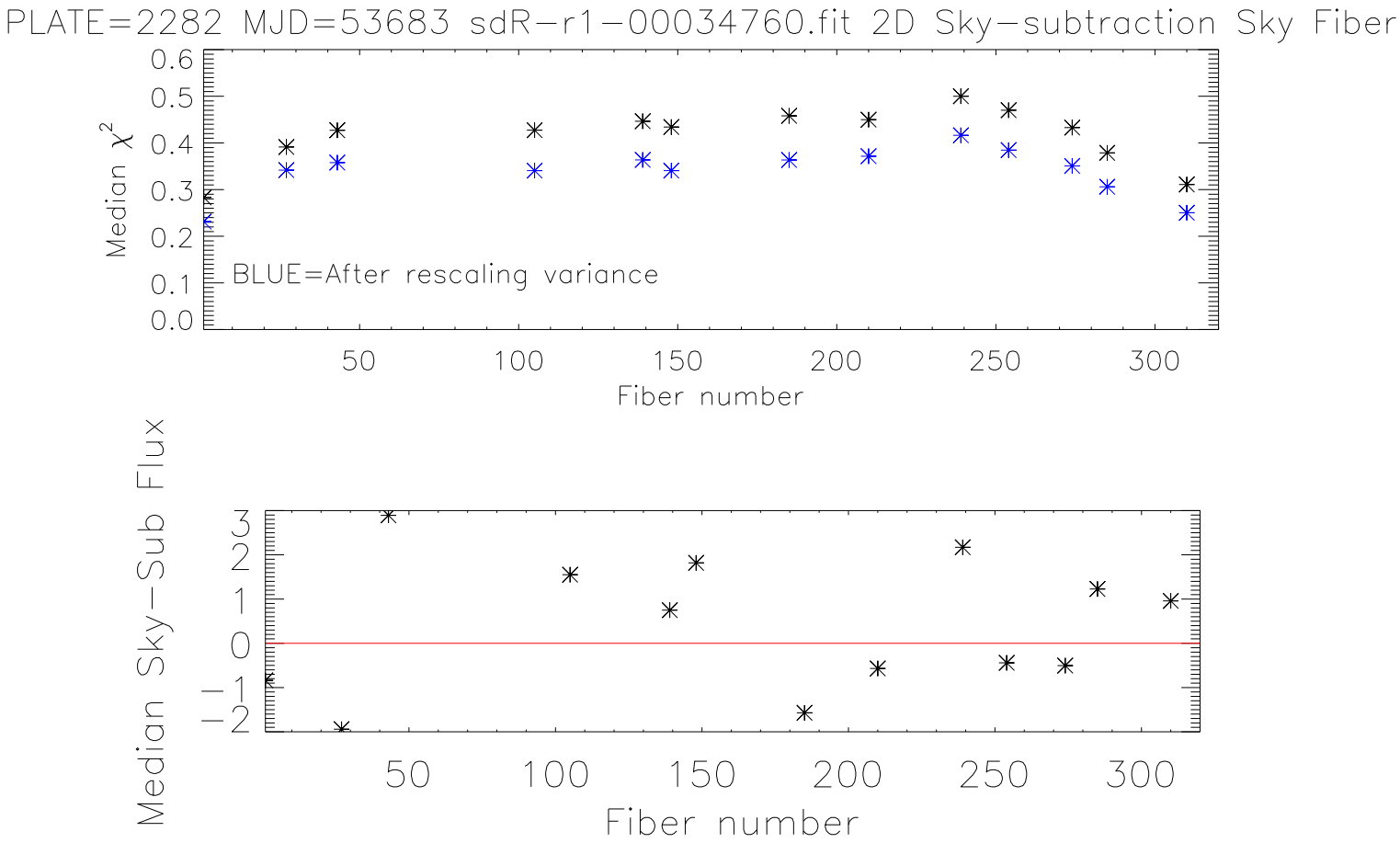

PLATE=2282 MJD=53683 Smooth superflat for sdR-r1-00034760.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

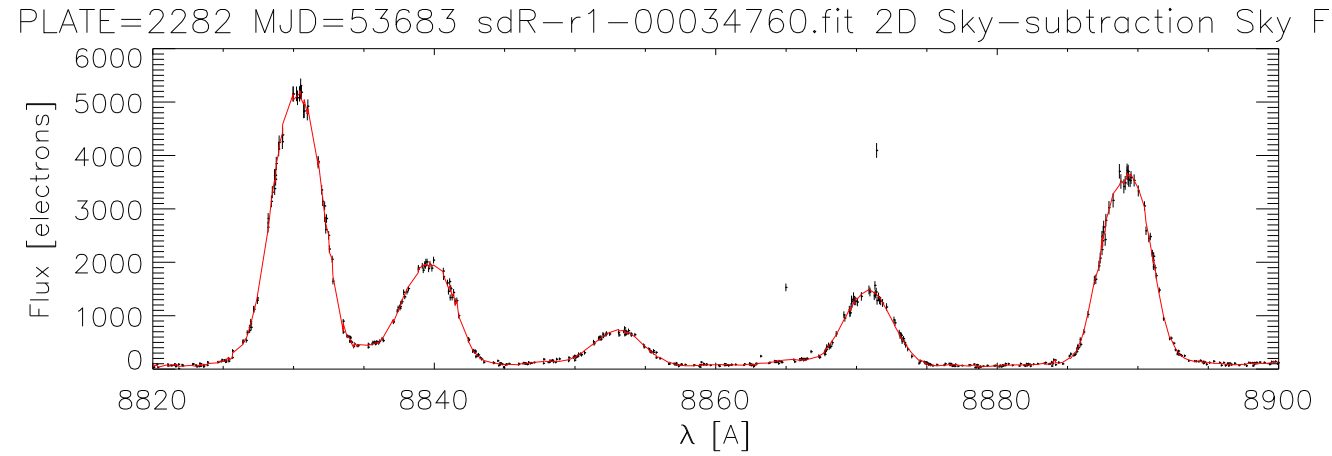

PLATE=2282 MJD=53683 sdR-r1-00034760.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
50
100
150
200
250
300
Fiber number

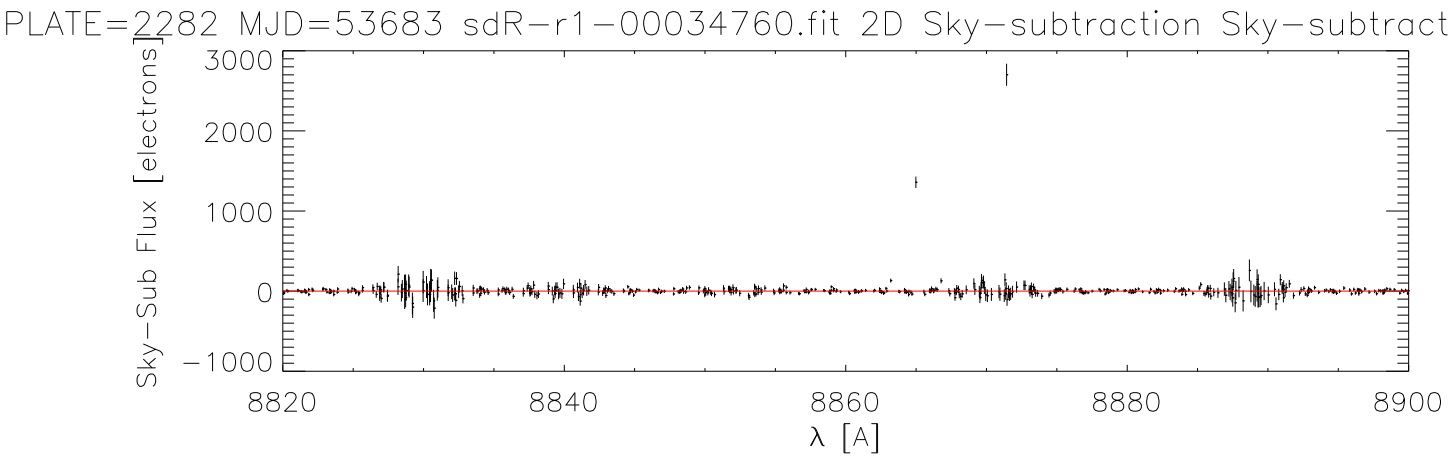

PLATE=2282 MJD=53683 sdR-r1-00034760.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

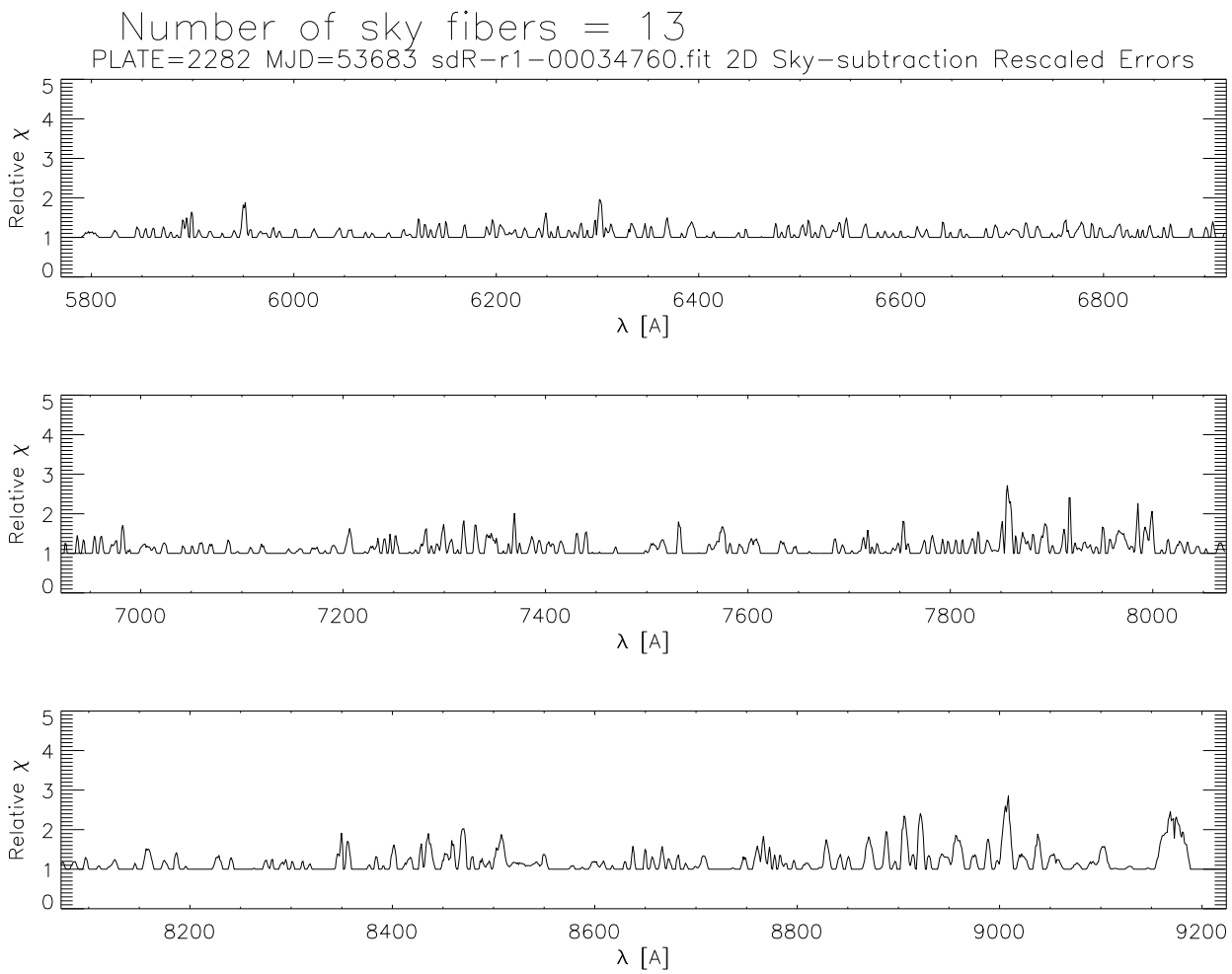

PLATE=2282 MJD=53683 sdR-r1-00034760.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

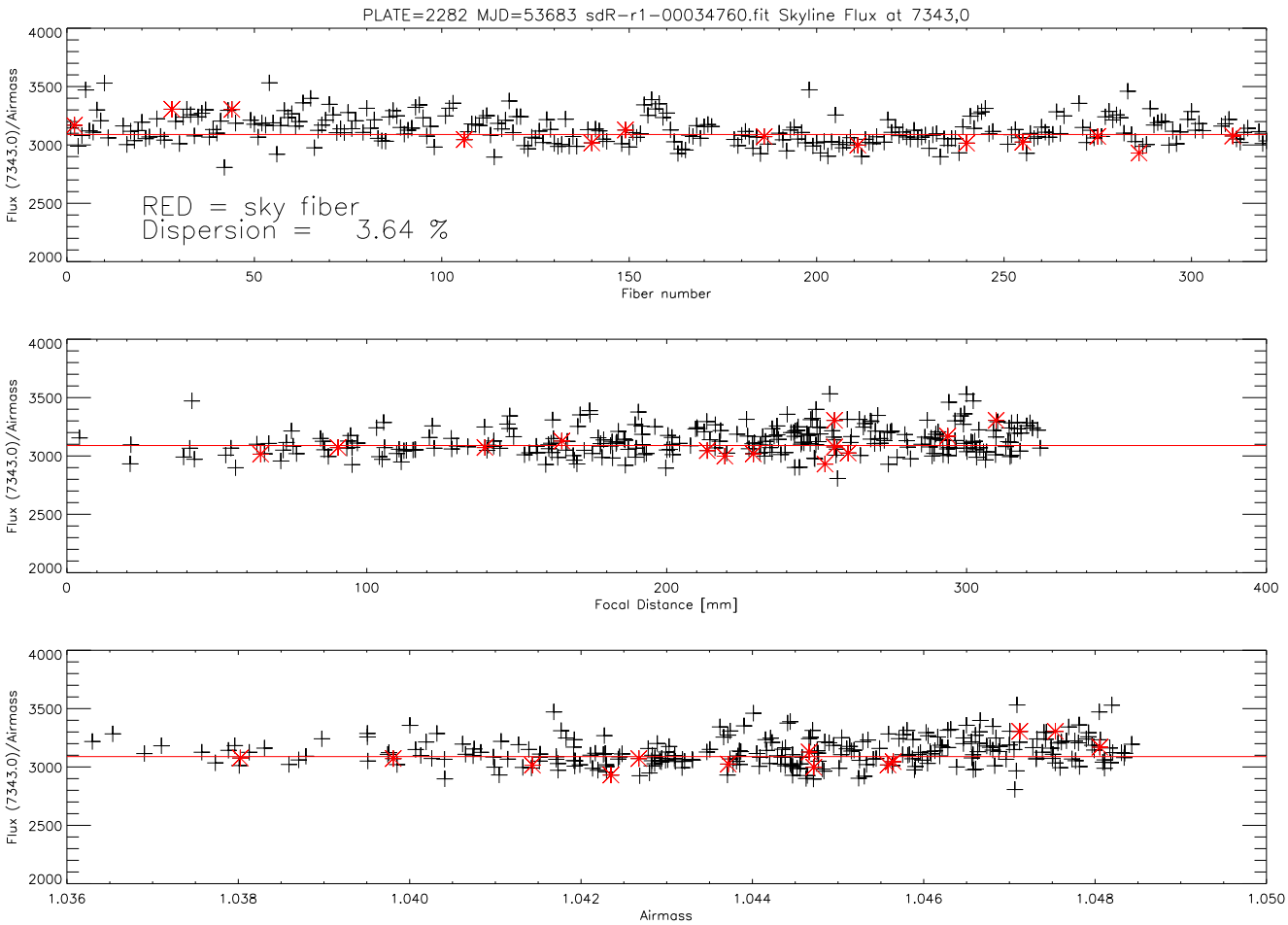

Number of sky fibers = 13
PLATE=2282 MJD=53683 sdR-r1-00034760.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

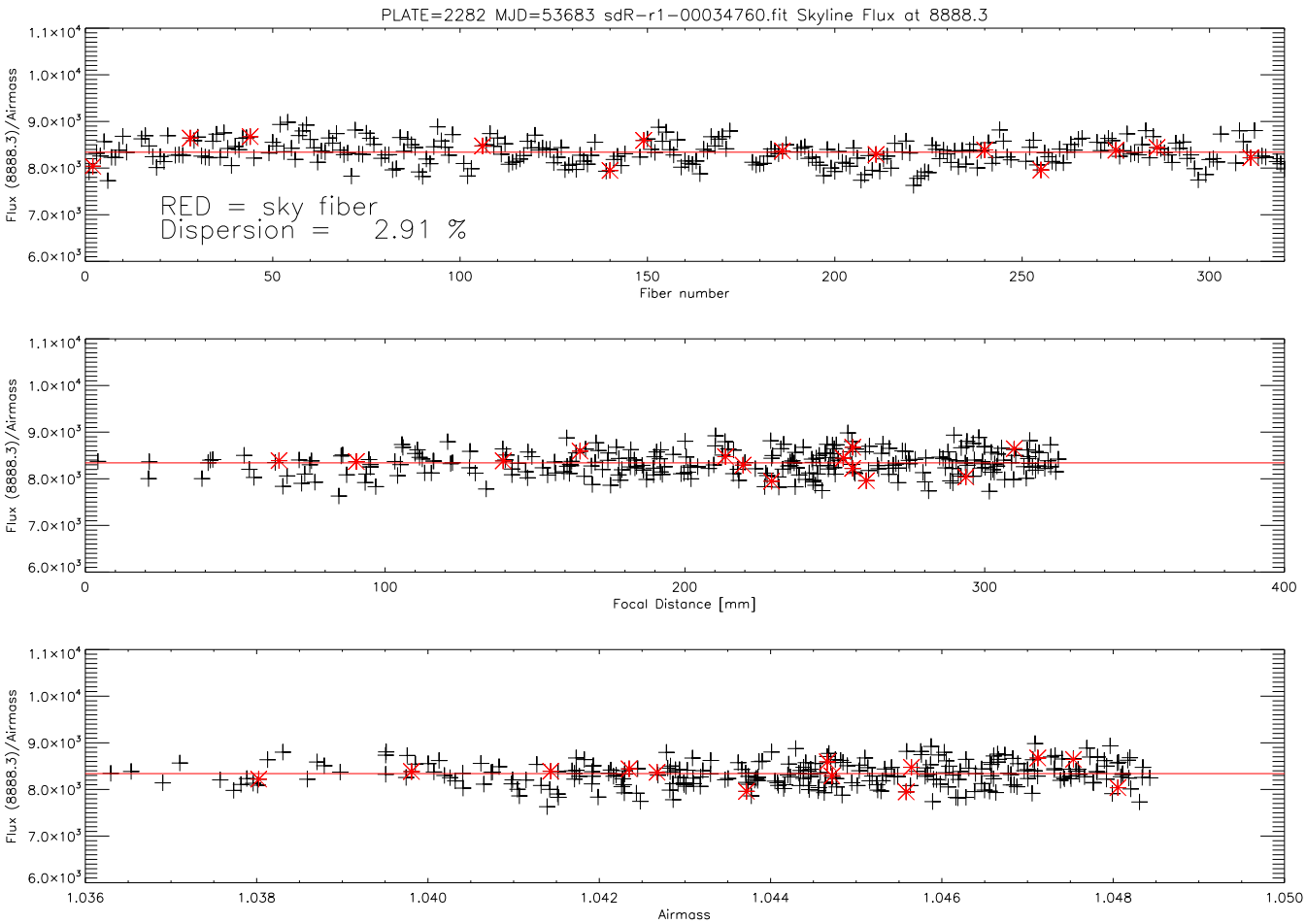

PLATE=2282 MJD=53683 sdR-r1-00034760.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
−2
−1
0
1
2
3
50
100
150
200
250
300
Fiber number

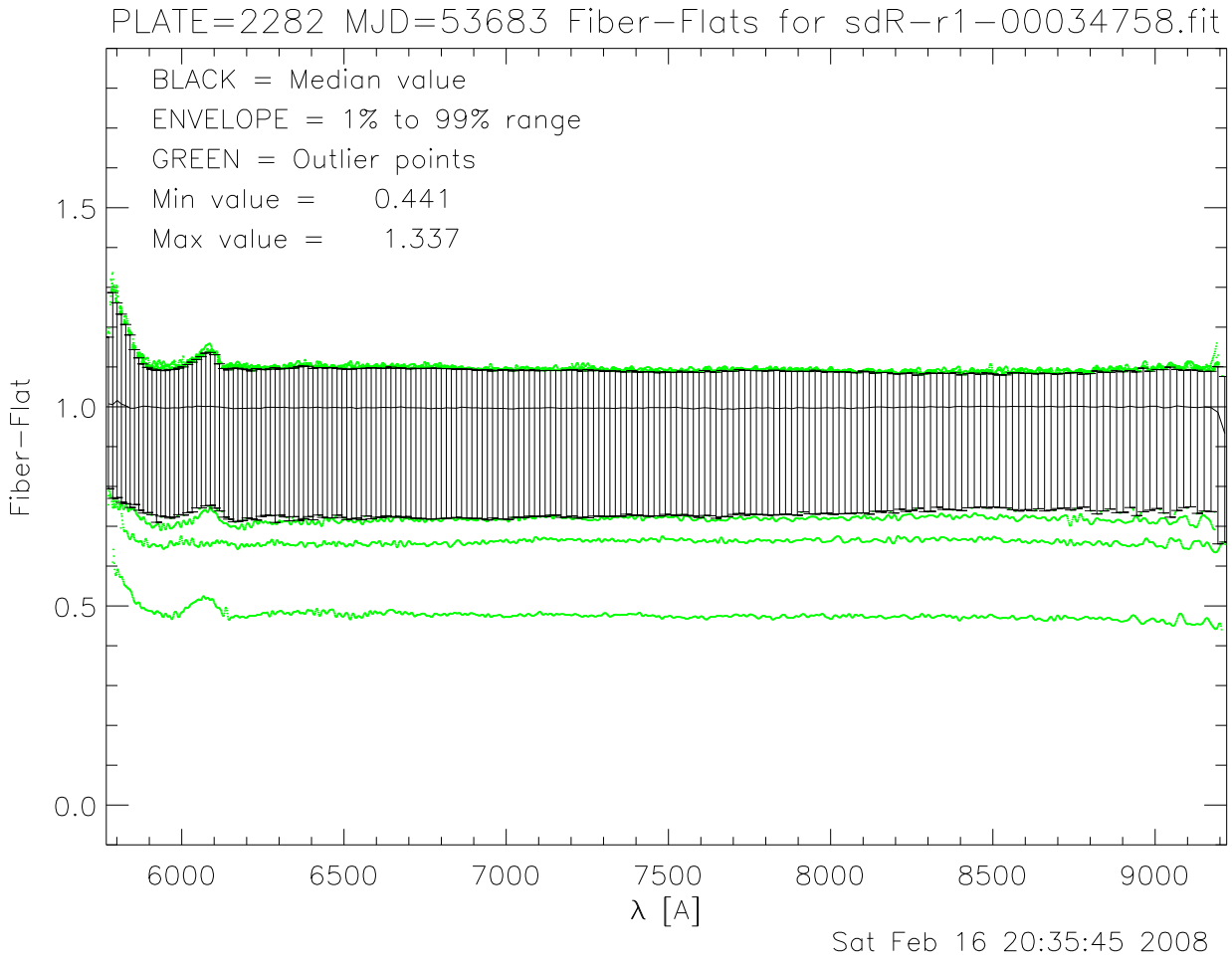

PLATE=2282 MJD=53683 sdR-r1-00034760.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

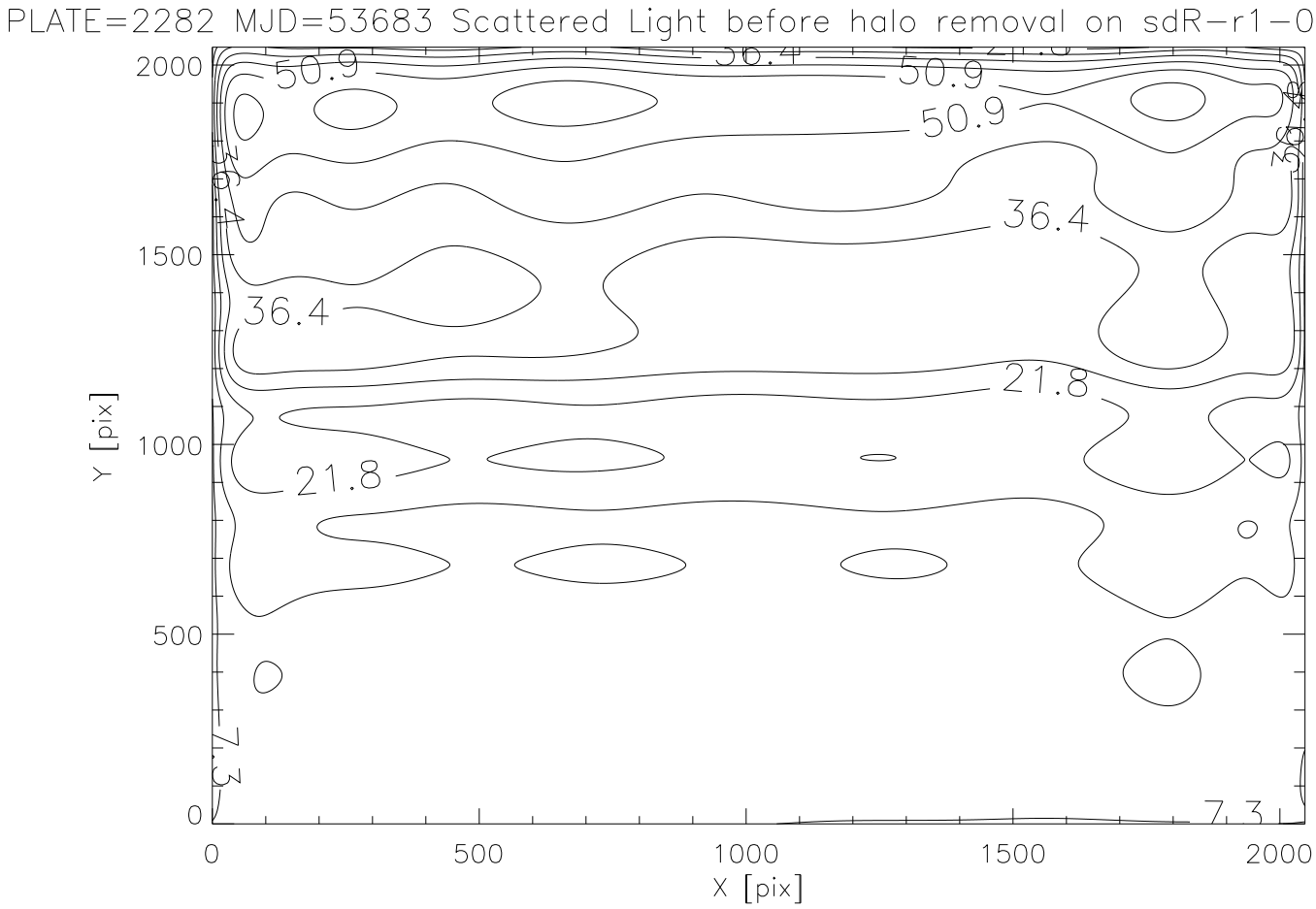

PLATE=2282 MJD=53683 sdR-r1-00034760.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

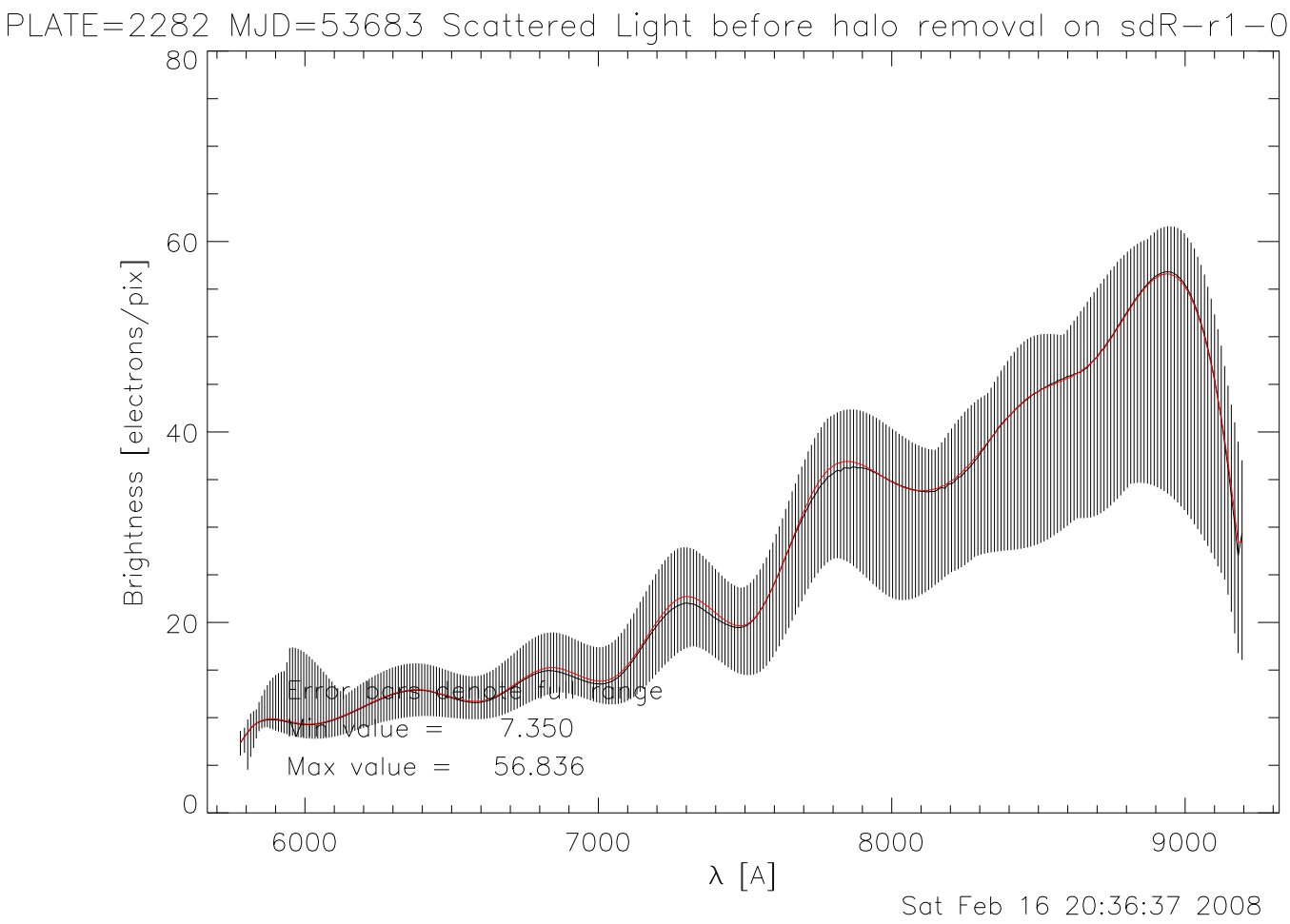

Number of sky fibers = 13
PLATE=2282 MJD=53683 sdR-r1-00034760.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

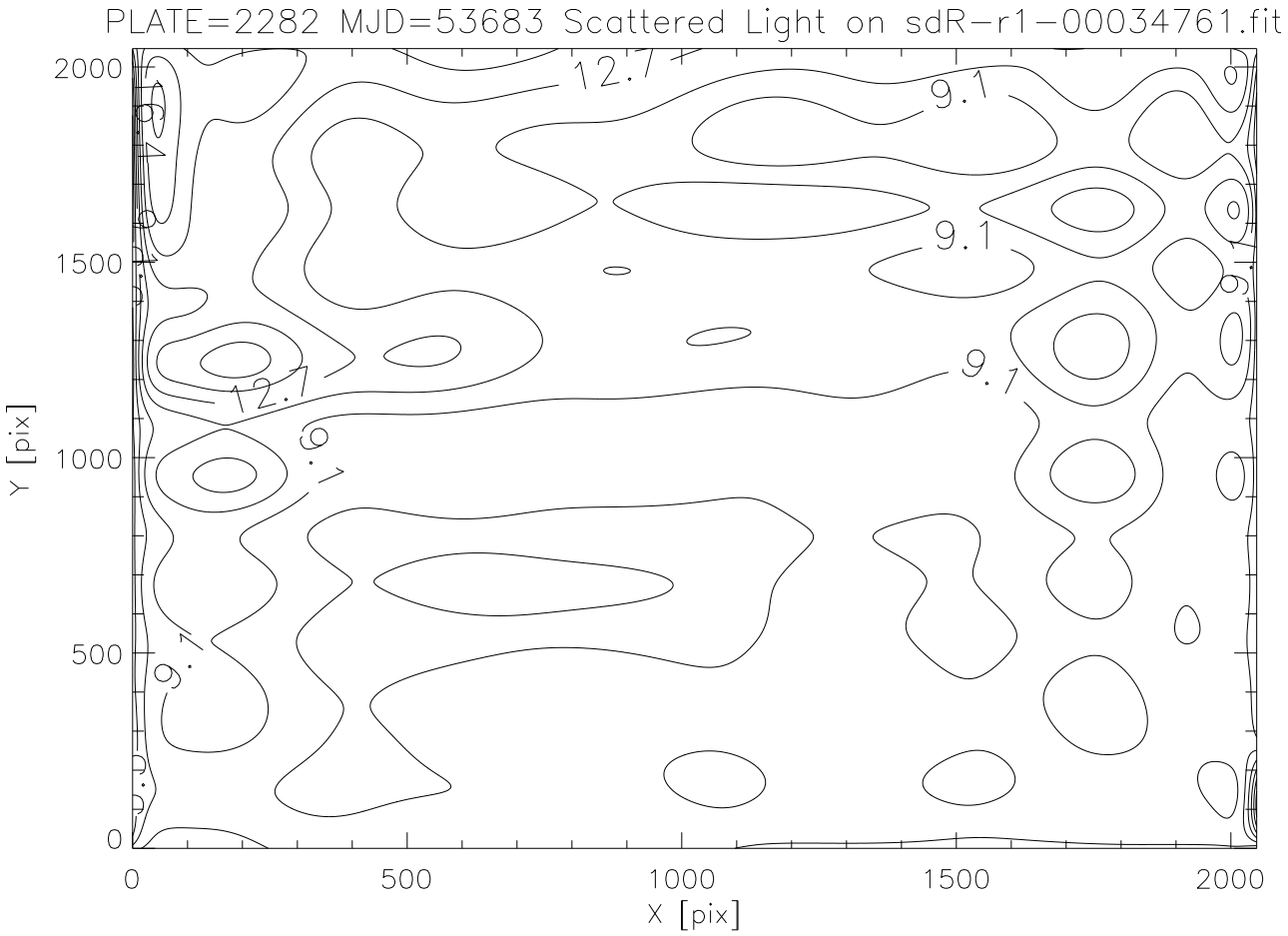

PLATE=2282 MJD=53683 sdR-r1-00034760.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.64 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

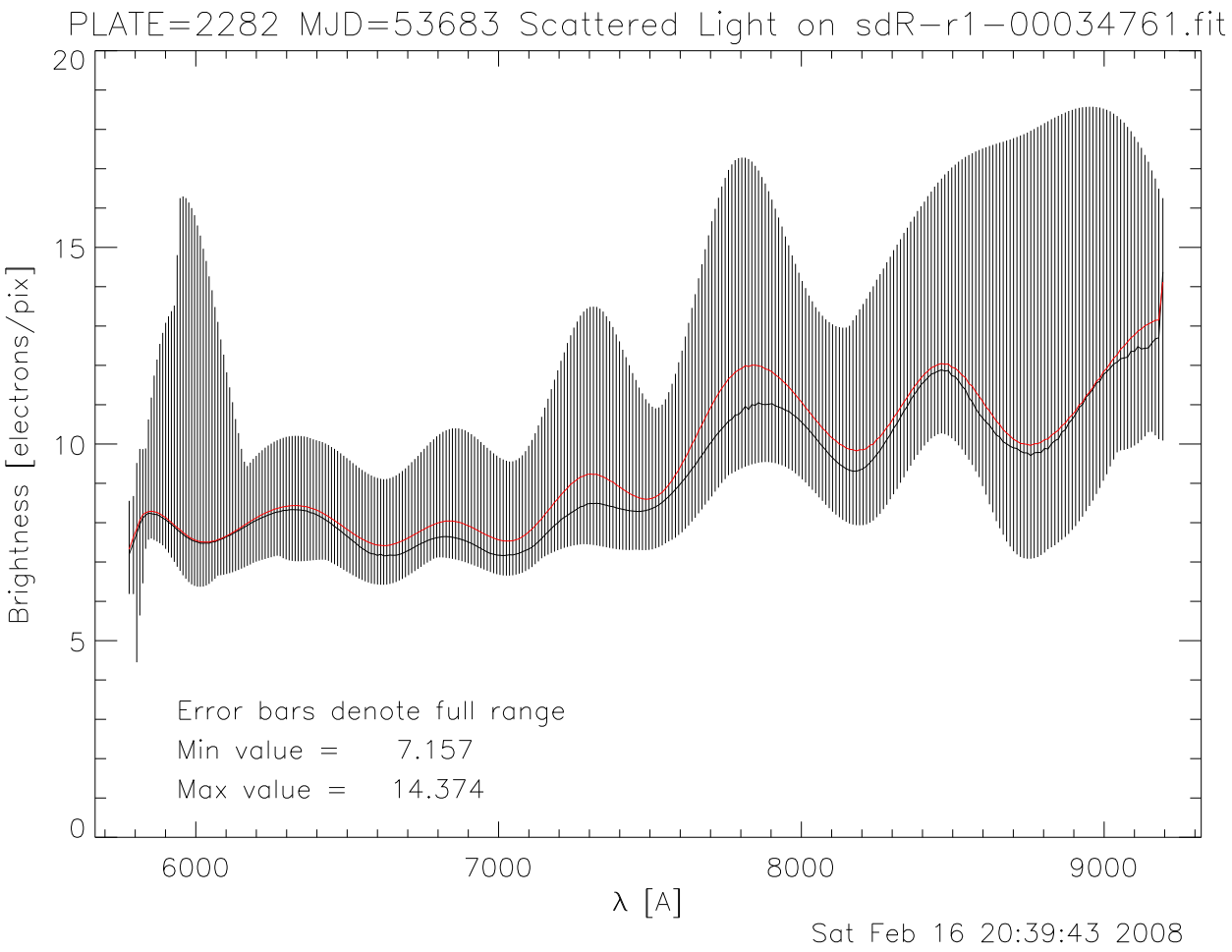

PLATE=2282 MJD=53683 sdR-r1-00034760.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.91 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

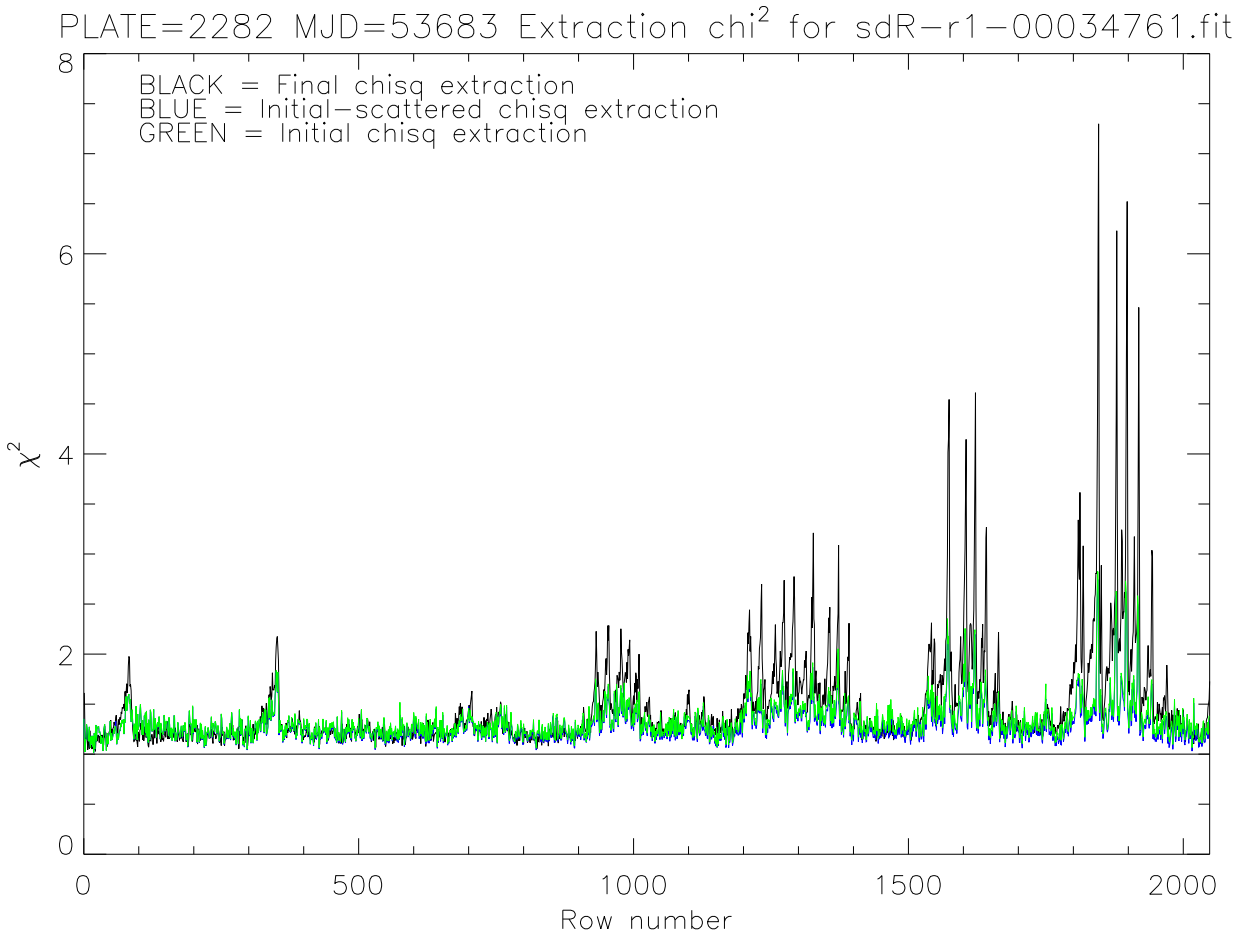

PLATE=2282 MJD=53683 Fiber−Flats for sdR−r1−00034758.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.441
Max value = 1.337
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sat Feb 16 20:35:45 2008

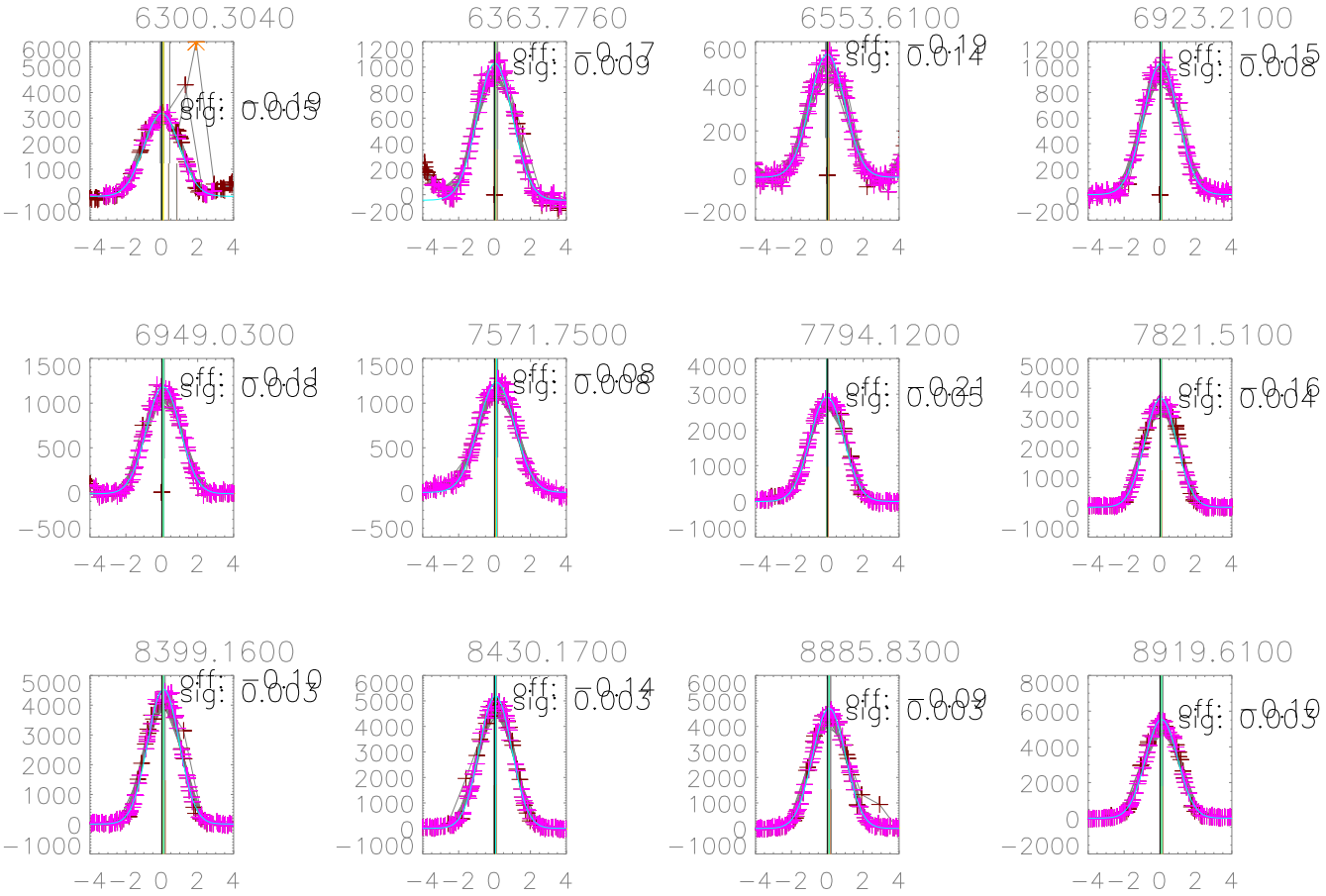

PLATE=2282 MJD=53683 Scattered Light before halo removal on sdR-r1-00034761.fi
50.9
50.9
50.9
36.4
36.4
36.4
21.8
21.8
7.3
7.3
Y [pix]
X [pix]
0
500
1000
1500
2000

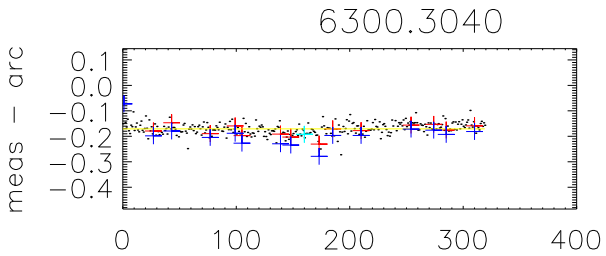

PLATE=2282 MJD=53683 Scattered Light before halo removal on sdR-r1-00034761.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.350
Max value = 56.836
Sat Feb 16 20:36:37 2008

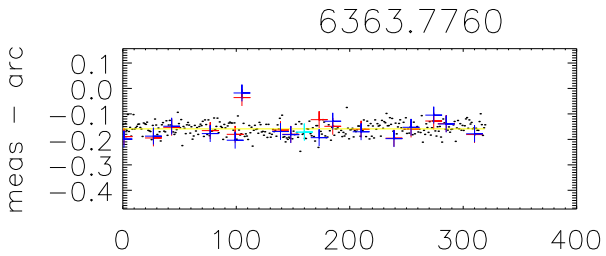

PLATE=2282 MJD=53683 Scattered Light on sdR-r1-00034761.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
12.7
9.1

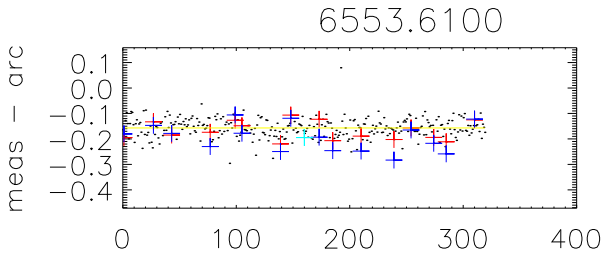

PLATE=2282 MJD=53683 Scattered Light on sdR-r1-00034761.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.157
Max value = 14.374
Sat Feb 16 20:39:43 2008

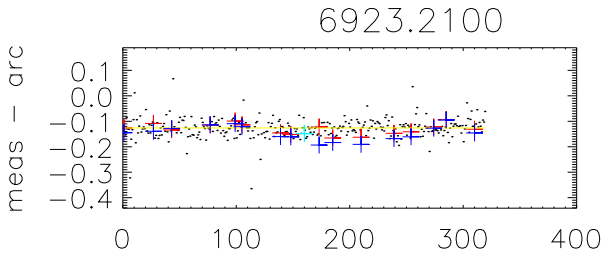

PLATE=2282 MJD=53683 Extraction chi^2 for sdR−r1−00034761.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

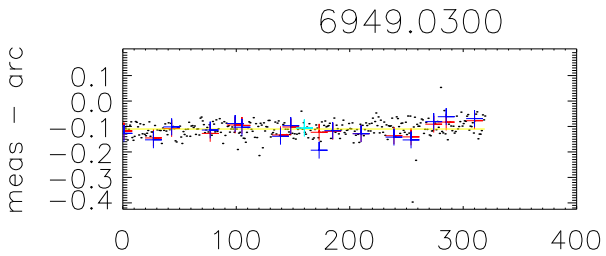

6300.3040
off: −0.19
sig: 0.005
6363.7760
off: −0.17
sig: 0.009
6553.6100
off: −0.19
sig: 0.014
6923.2100
off: −0.15
sig: 0.008
6949.0300
off: −0.11
sig: 0.008
7571.7500
off: −0.08
sig: 0.008
7794.1200
off: −0.21
sig: 0.005
7821.5100
off: −0.16
sig: 0.004
8399.1600
off: −0.10
sig: 0.003
8430.1700
off: −0.14
sig: 0.003
8885.8300
off: −0.09
sig: 0.003
8919.6100
off: −0.19
sig: 0.003

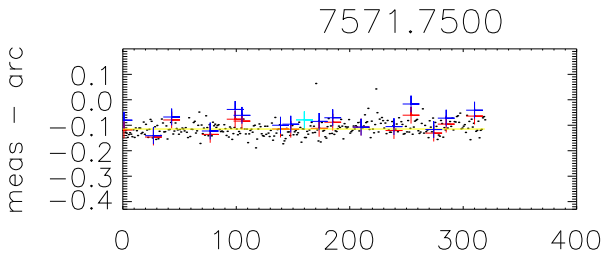

6300.3040
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

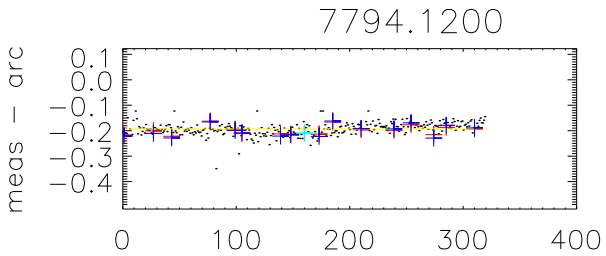

6363.7760
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

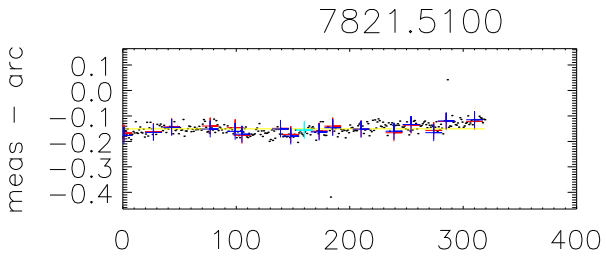

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

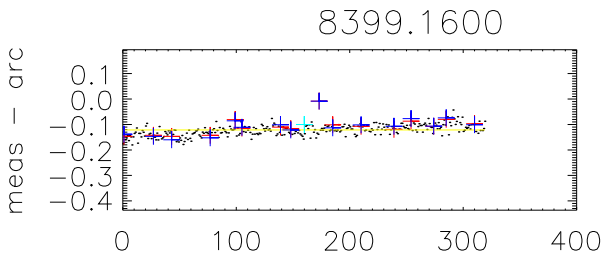

6923.2100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

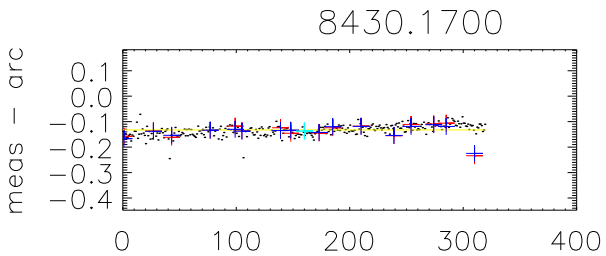

6949.0300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

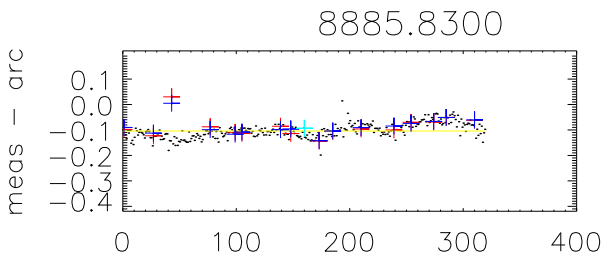

7571.7500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

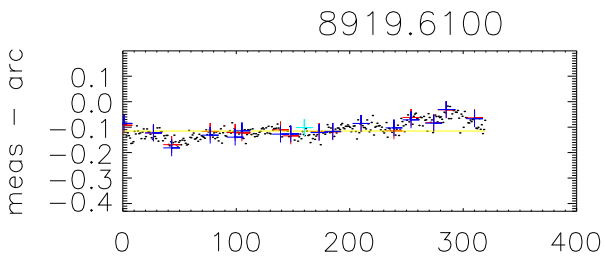

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

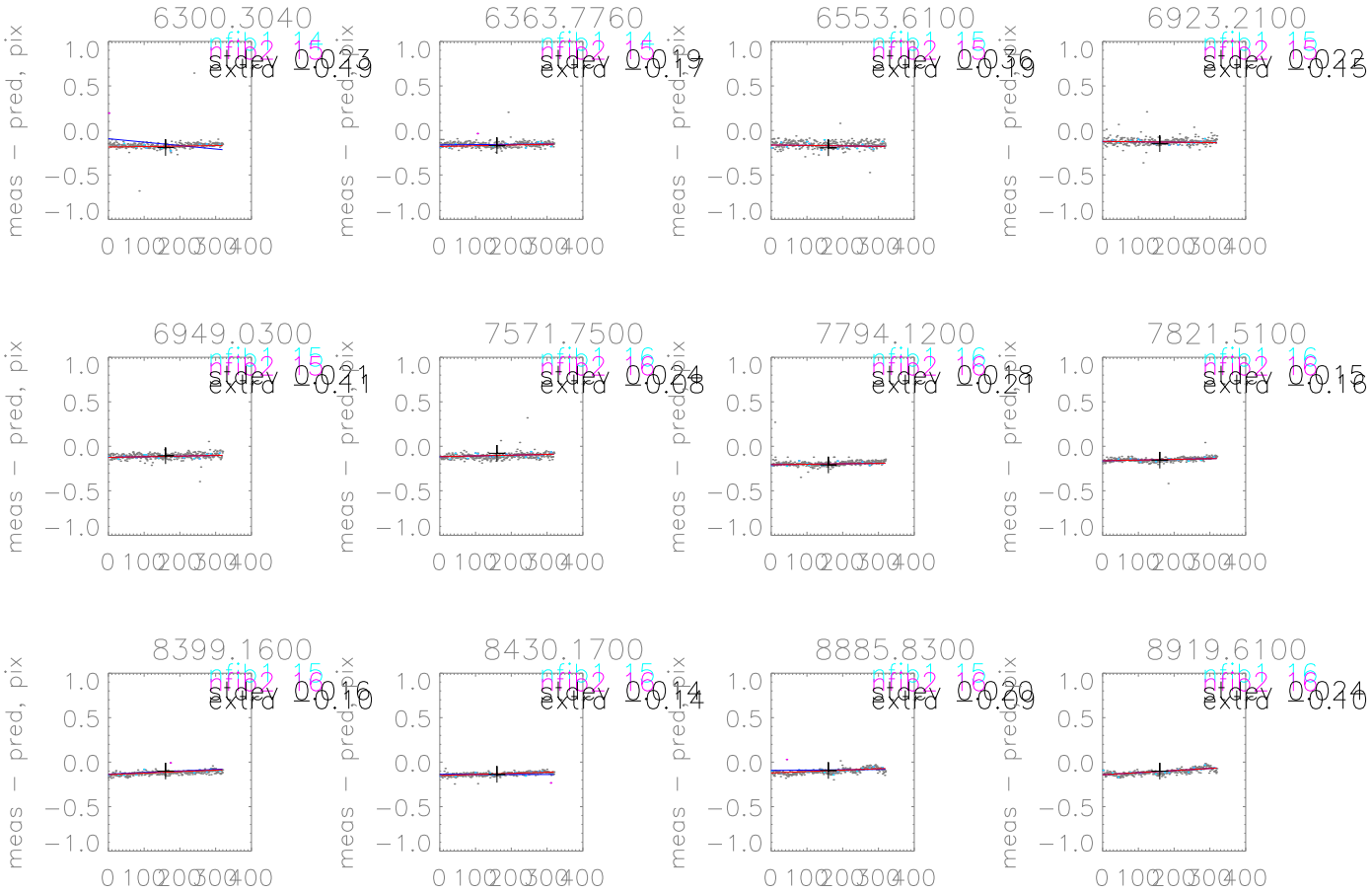

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

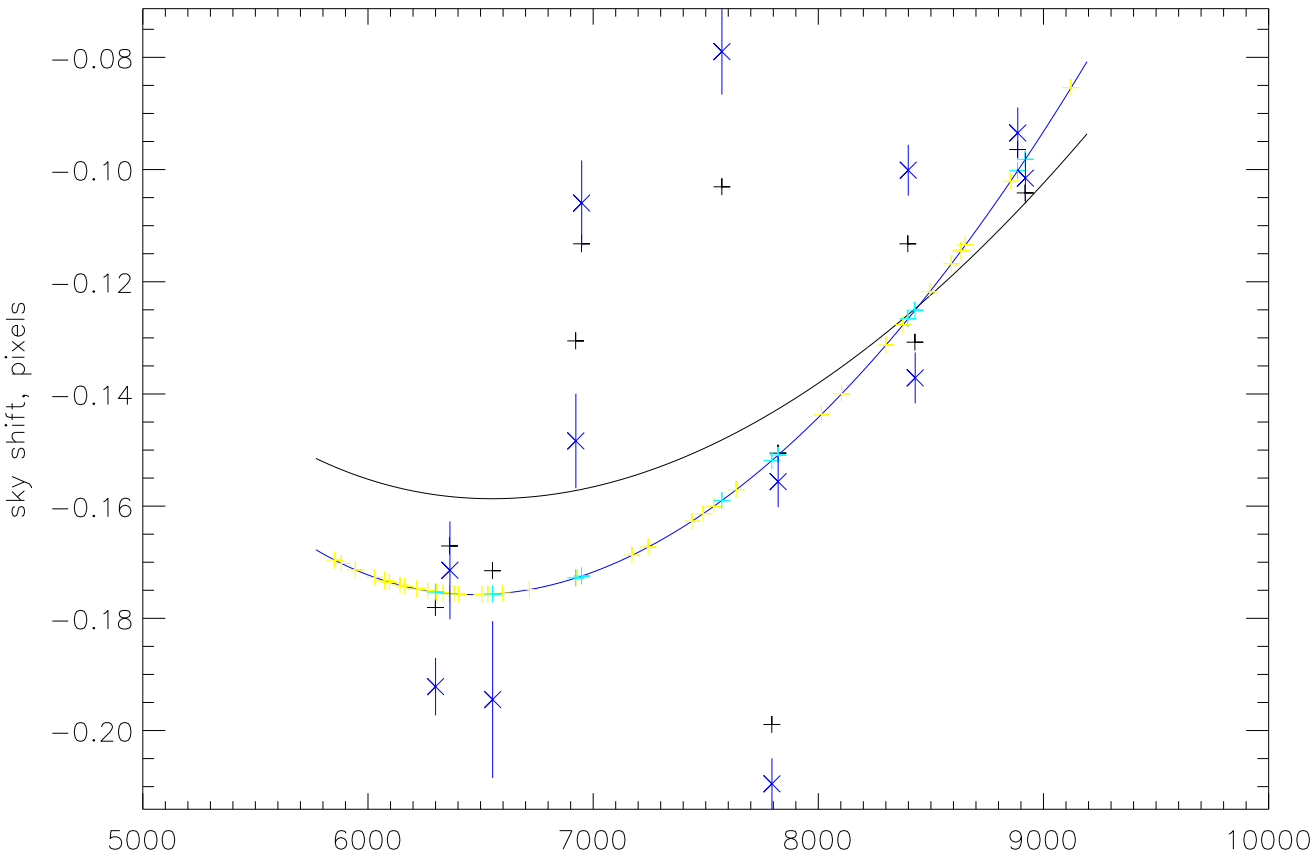

8399.1600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


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

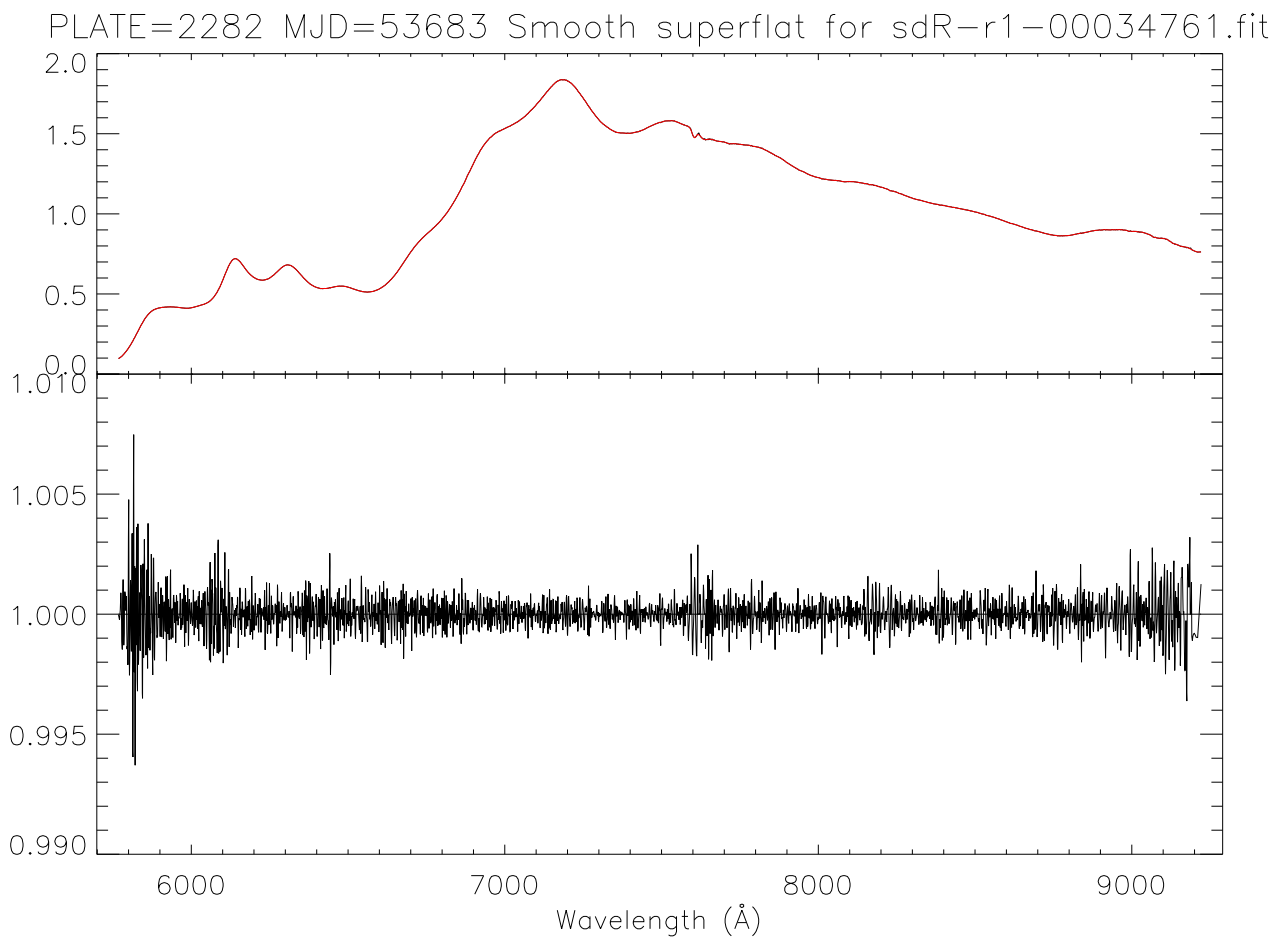

8885.8300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

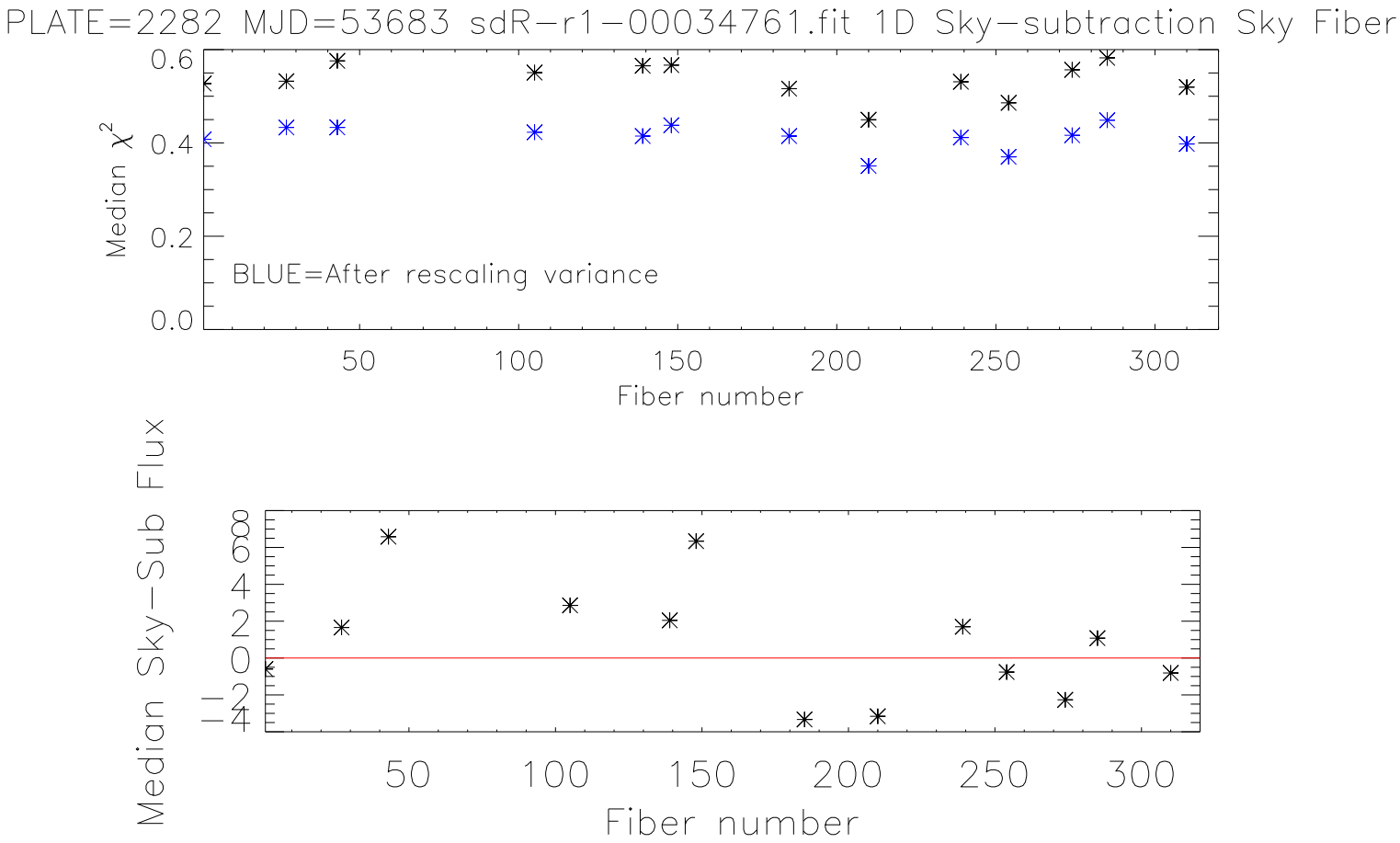

8919.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

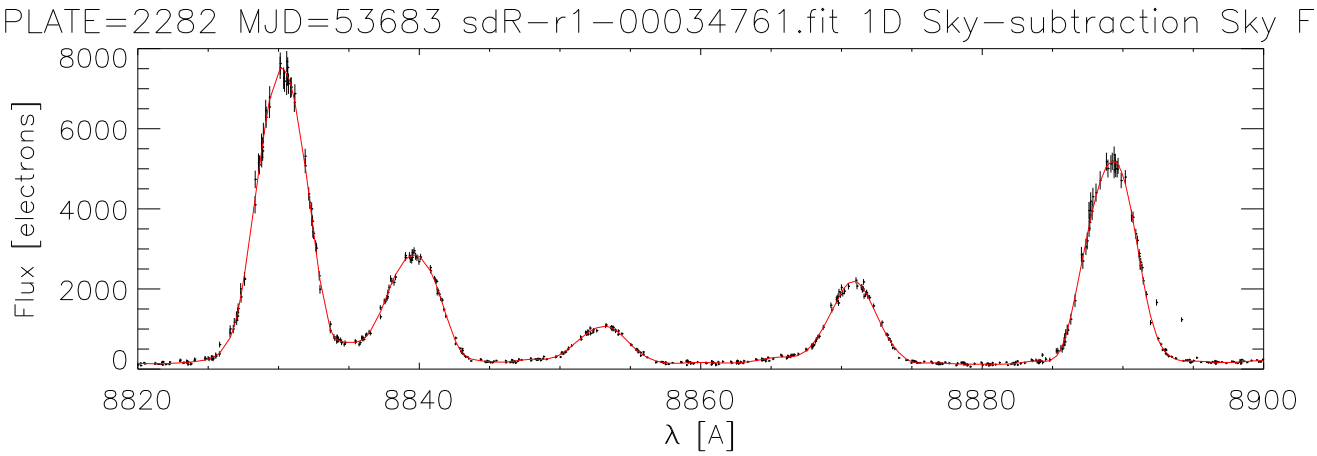

6300.3040
mfib1 14
mfib2 15
stdev 0.23
extra 0.49
6363.7760
mfib1 14
mfib2 15
stdev 0.19
extra 0.17
6553.6100
mfib1 15
mfib2 15
stdev 0.36
extra 0.19
6923.2100
mfib1 15
mfib2 15
stdev 0.22
extra 0.45
6949.0300
mfib1 15
mfib2 15
stdev 0.21
extra 0.41
7571.7500
mfib1 16
mfib2 16
stdev 0.24
extra 0.08
7794.1200
mfib1 16
mfib2 16
stdev 0.18
extra 0.29
7821.5100
mfib1 16
mfib2 16
stdev 0.15
extra 0.18
8399.1600
mfib1 15
mfib2 16
stdev 0.16
extra 0.10
8430.1700
mfib1 15
mfib2 16
stdev 0.14
extra 0.14
8885.8300
mfib1 15
mfib2 16
stdev 0.20
extra 0.09
8919.6100
mfib1 16
mfib2 16
stdev 0.24
extra 0.40
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

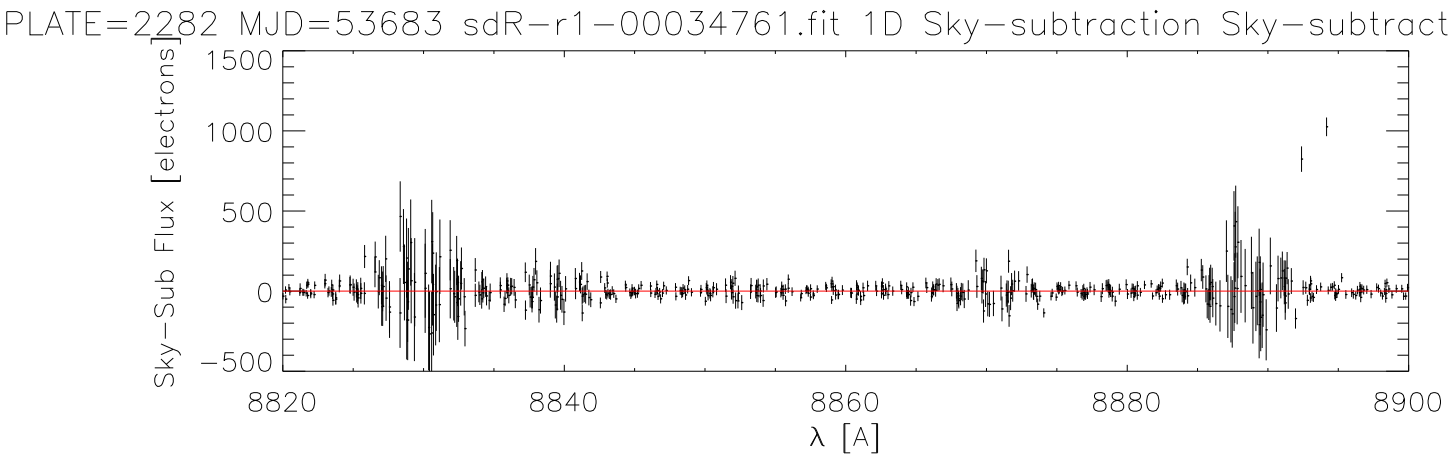

−0.08
−0.10
−0.12
−0.14
−0.16
−0.18
−0.20
sky shift, pixels
5000
6000
7000
8000
9000
10000

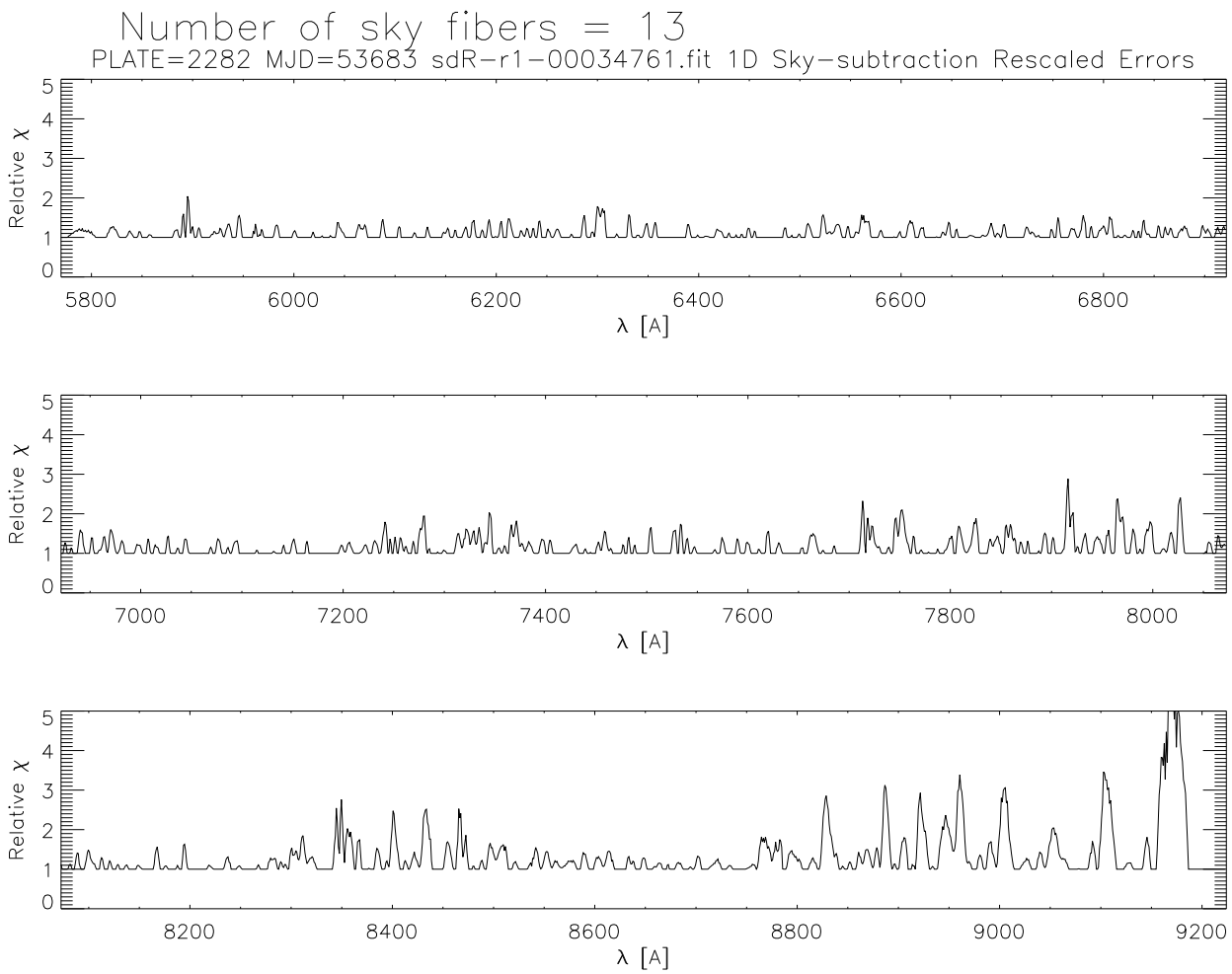
es= 0.0000

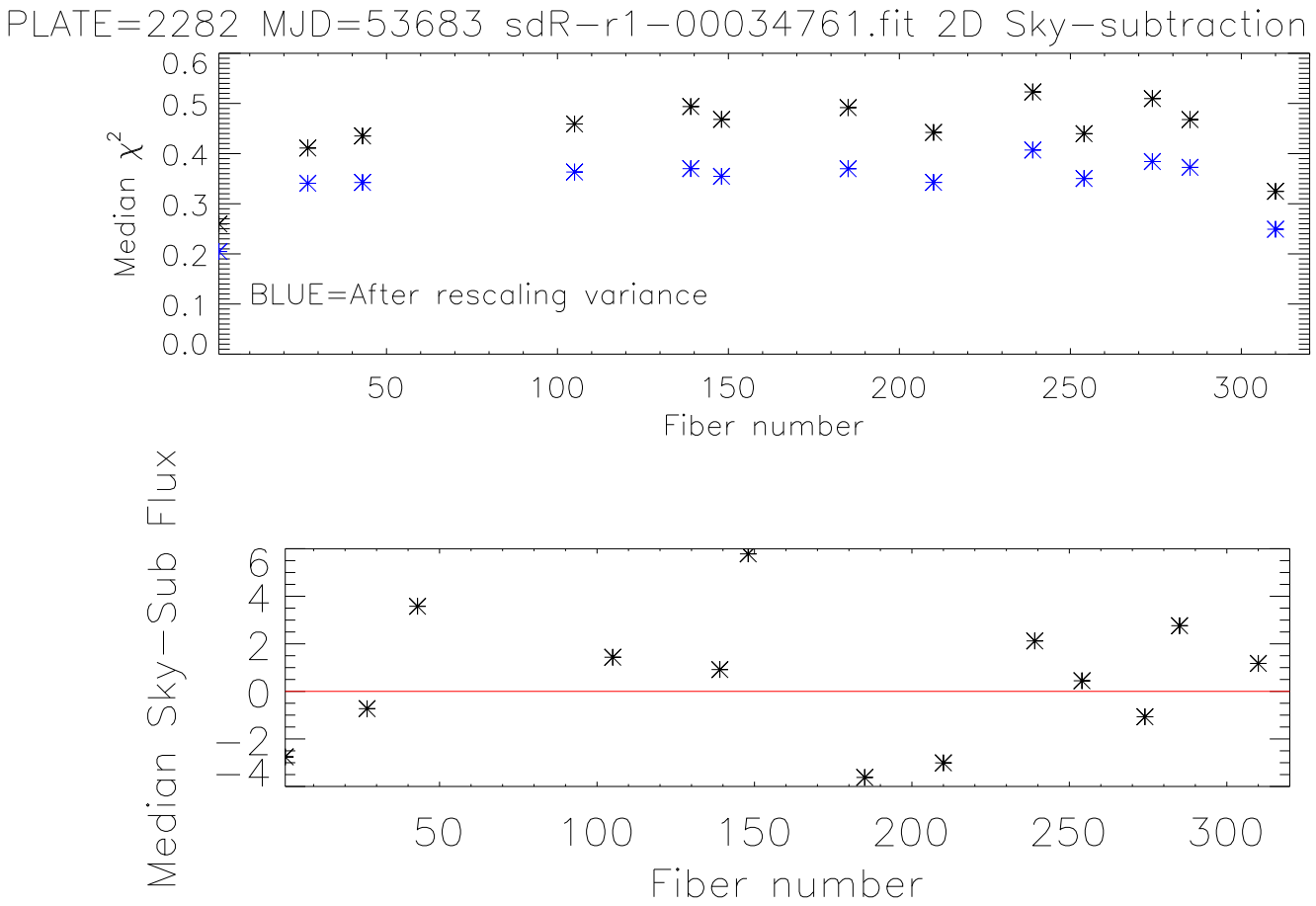

PLATE=2282 MJD=53683 Smooth superflat for sdR-r1-00034761.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

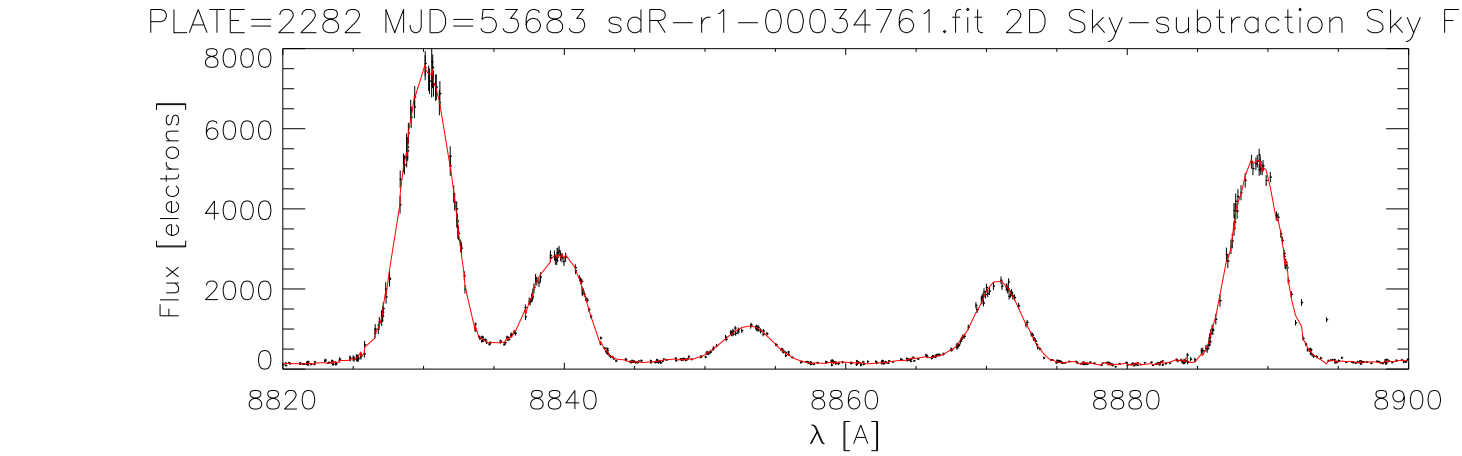

PLATE=2282 MJD=53683 sdR-r1-00034761.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

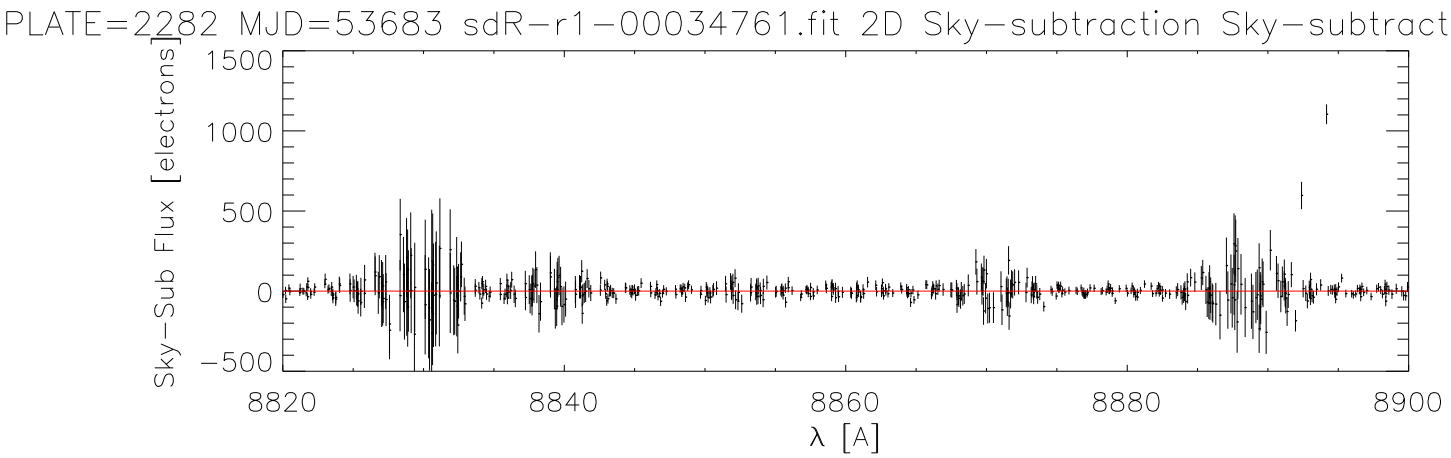

PLATE=2282 MJD=53683 sdR-r1-00034761.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

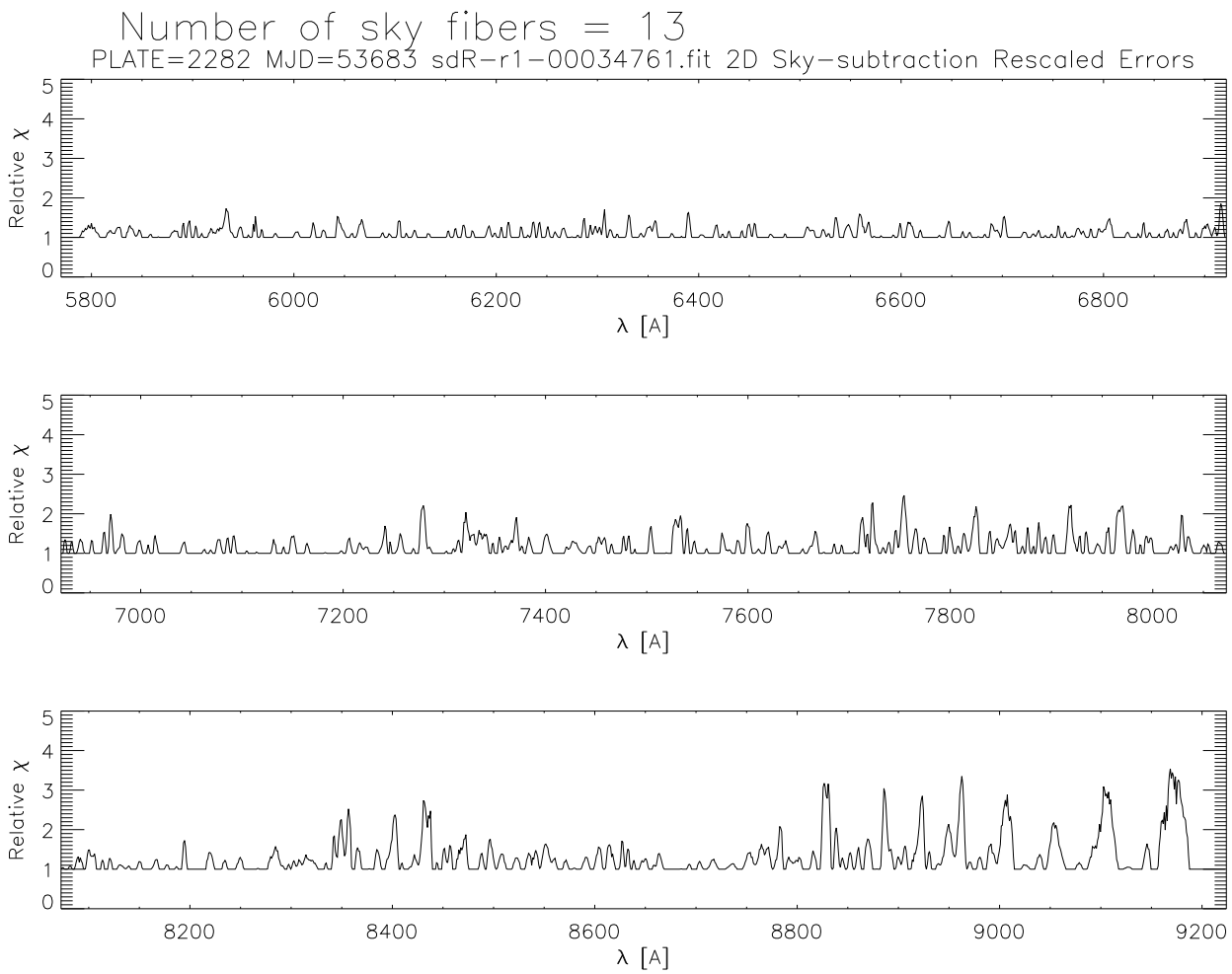

PLATE=2282 MJD=53683 sdR-r1-00034761.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

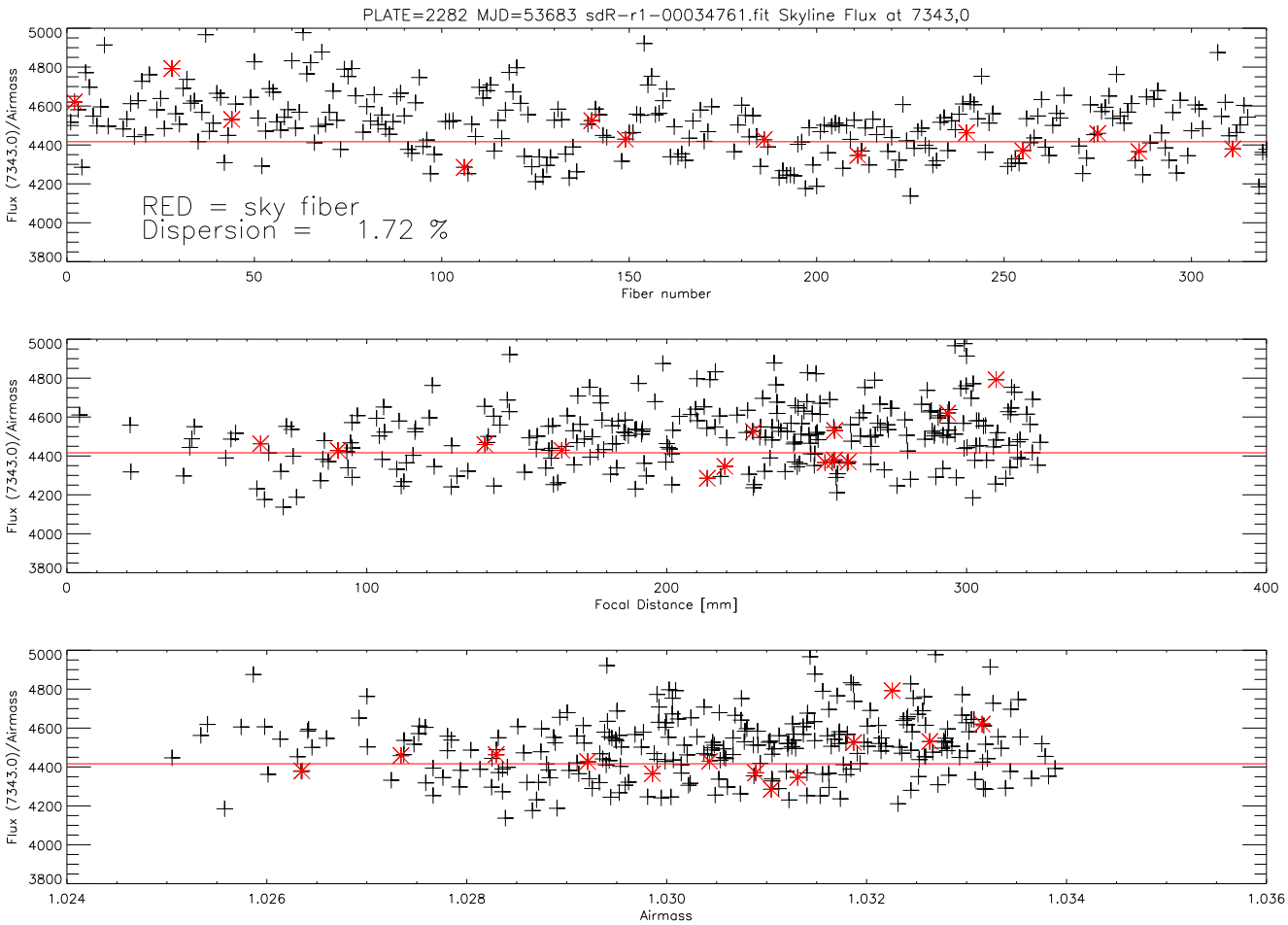

Number of sky fibers = 13
PLATE=2282 MJD=53683 sdR-r1-00034761.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

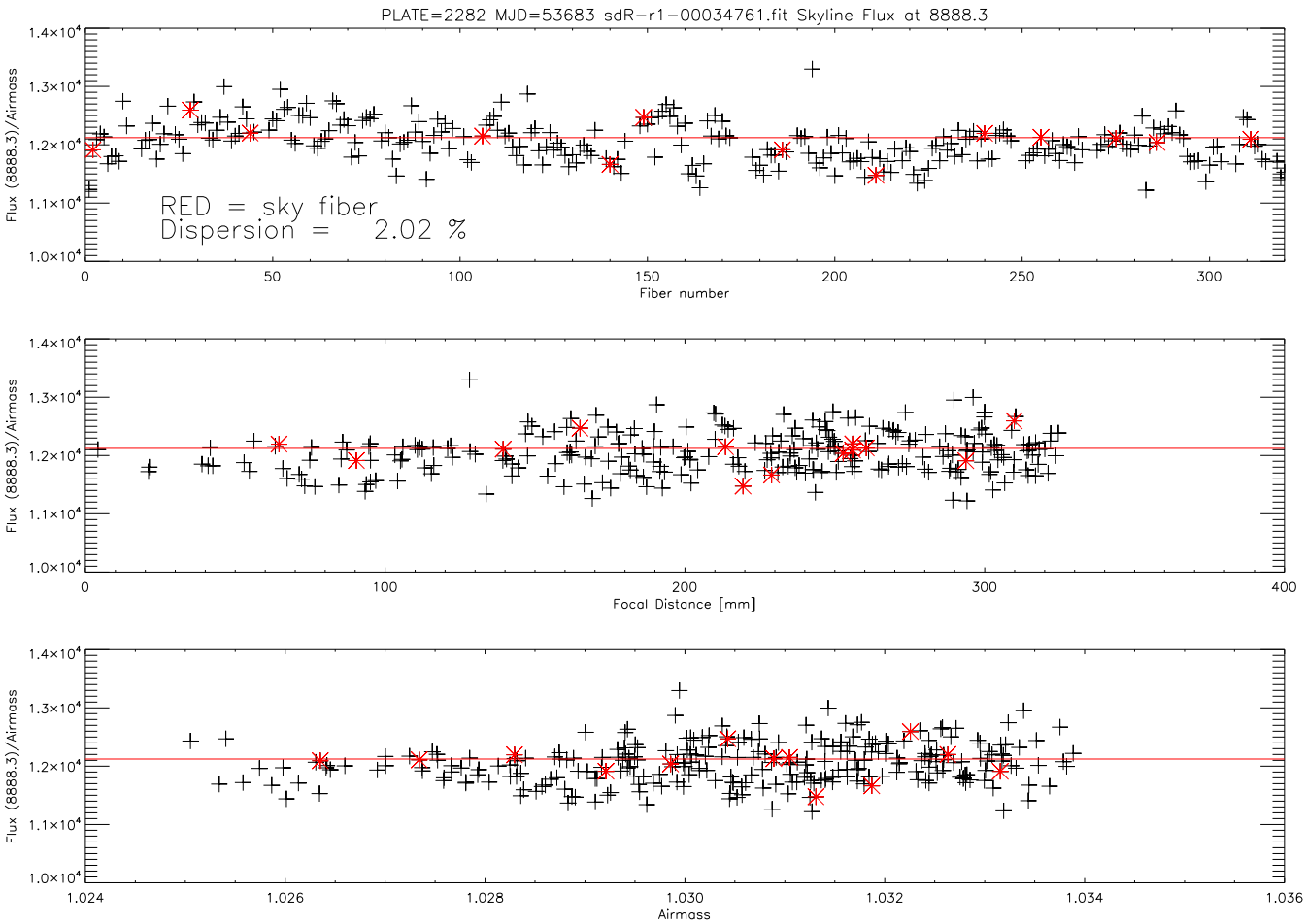

PLATE=2282 MJD=53683 sdR-r1-00034761.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

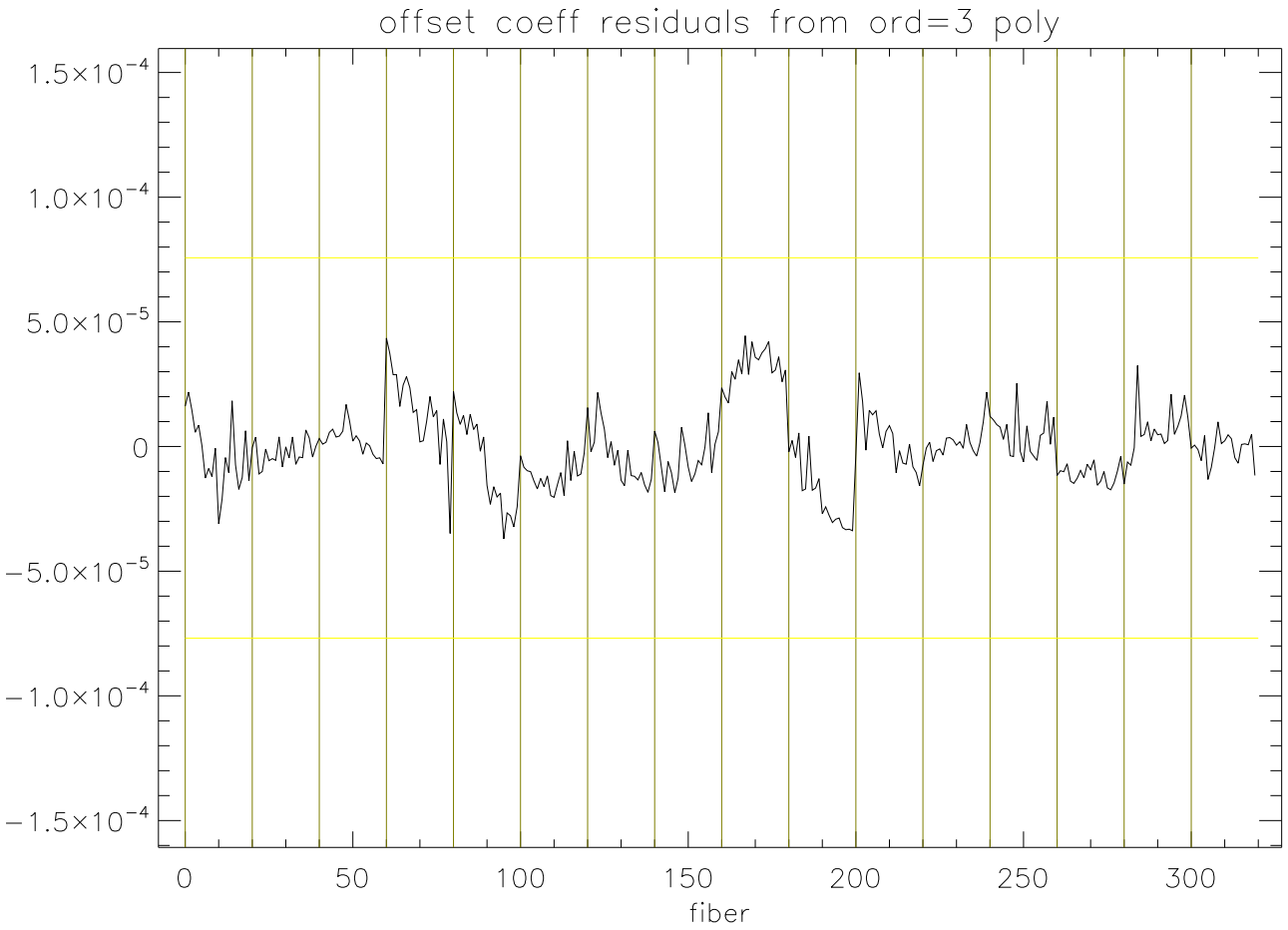

PLATE=2282 MJD=53683 sdR-r1-00034761.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

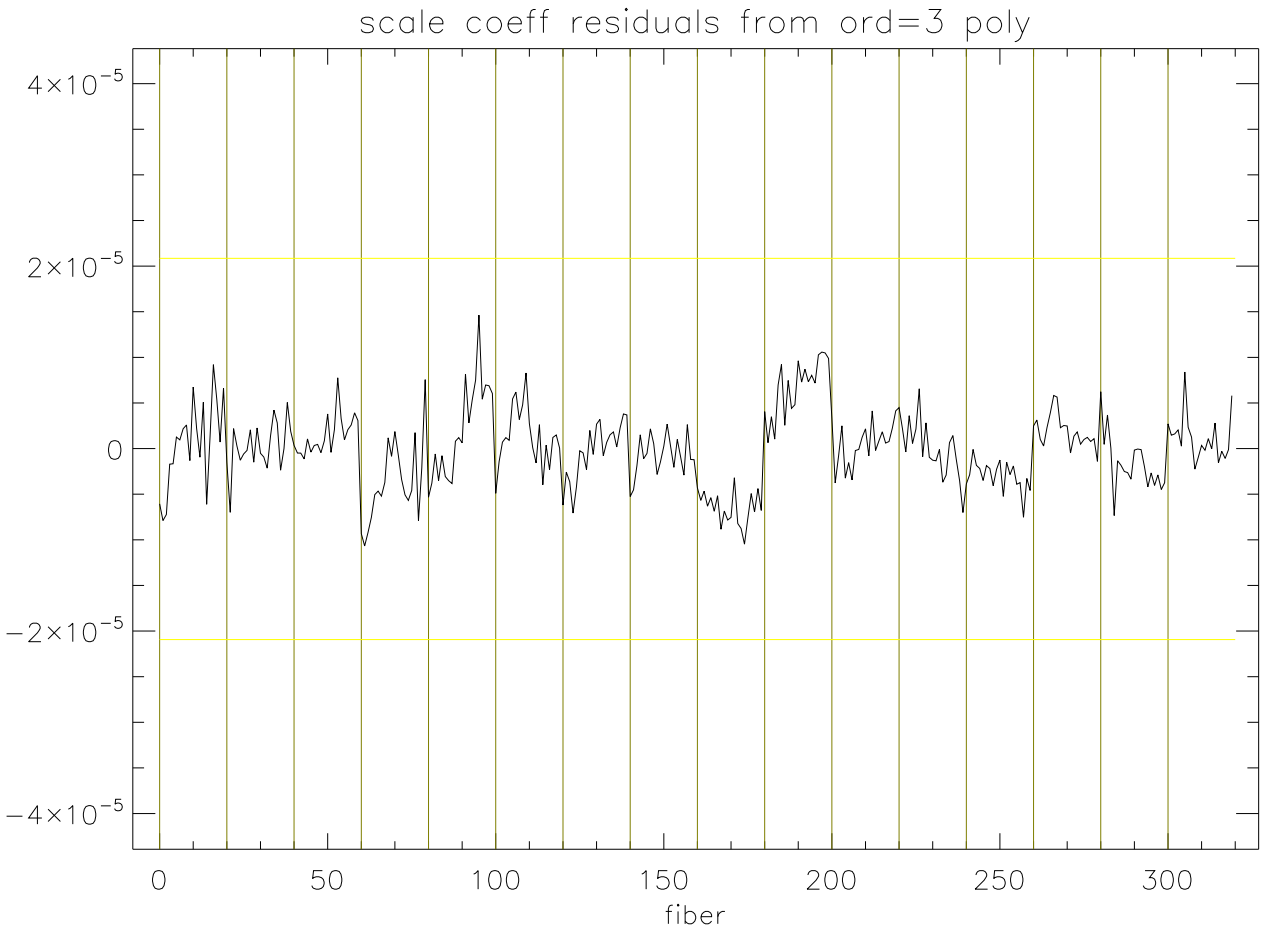

PLATE=2282 MJD=53683 sdR-r1-00034761.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
−500
8820
8840
8860
8880
8900
λ [A]

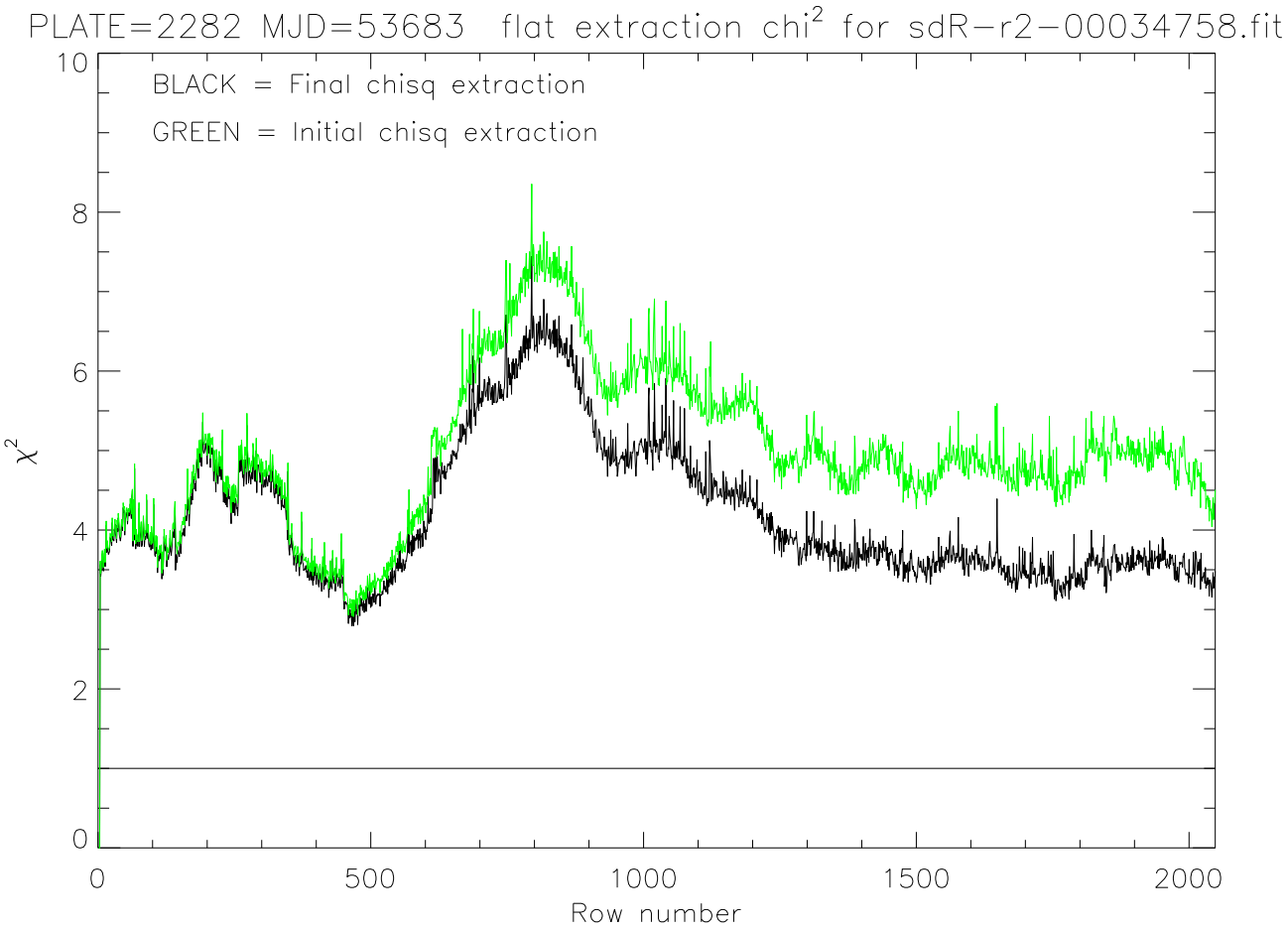

Number of sky fibers = 13
PLATE=2282 MJD=53683 sdR-r1-00034761.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

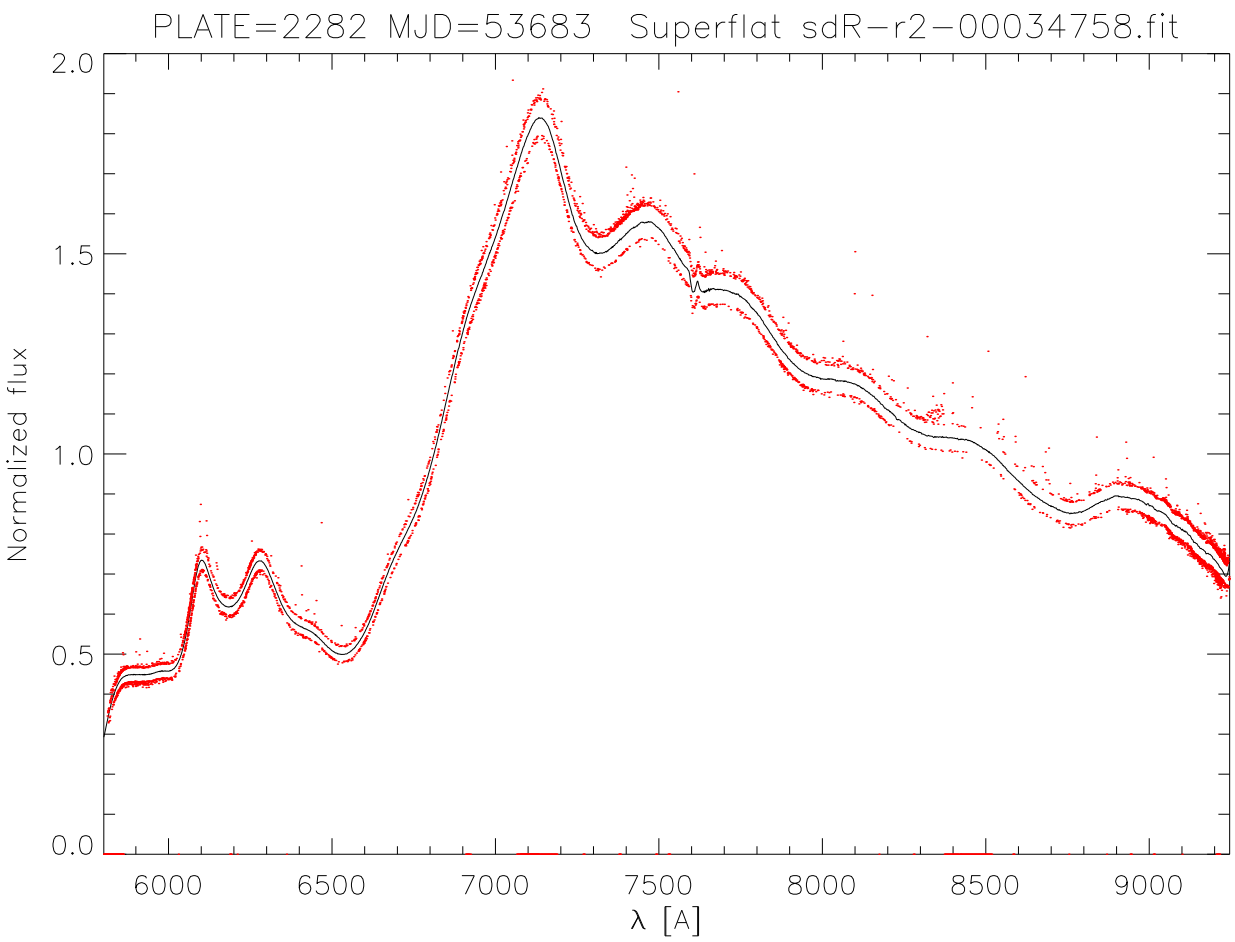

PLATE=2282 MJD=53683 sdR-r1-00034761.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 1.72 %
Fiber number
Focal Distance [mm]
Airmass

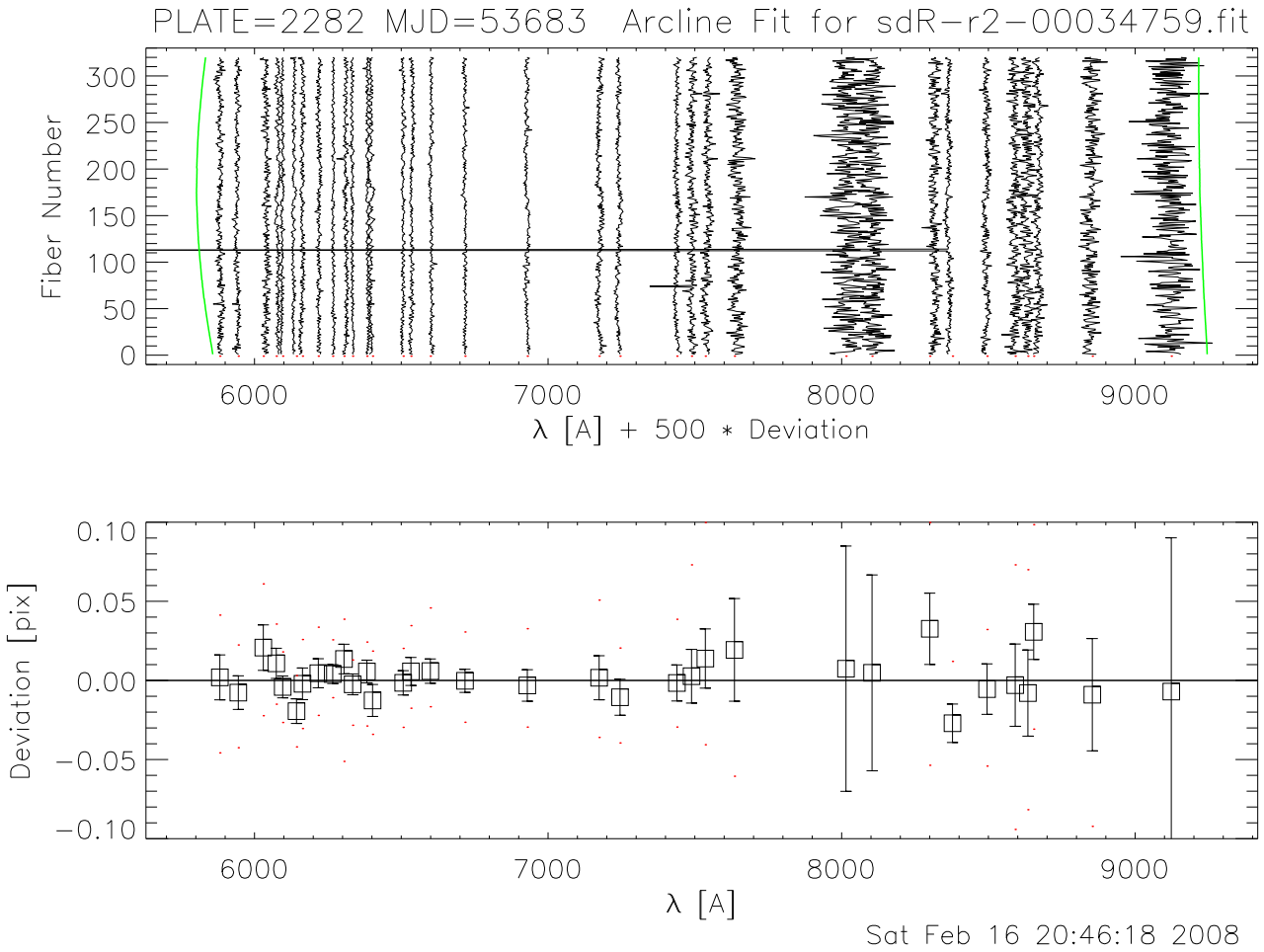

PLATE=2282 MJD=53683 sdR-r1-00034761.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.02 %
Fiber number
Focal Distance [mm]
Airmass

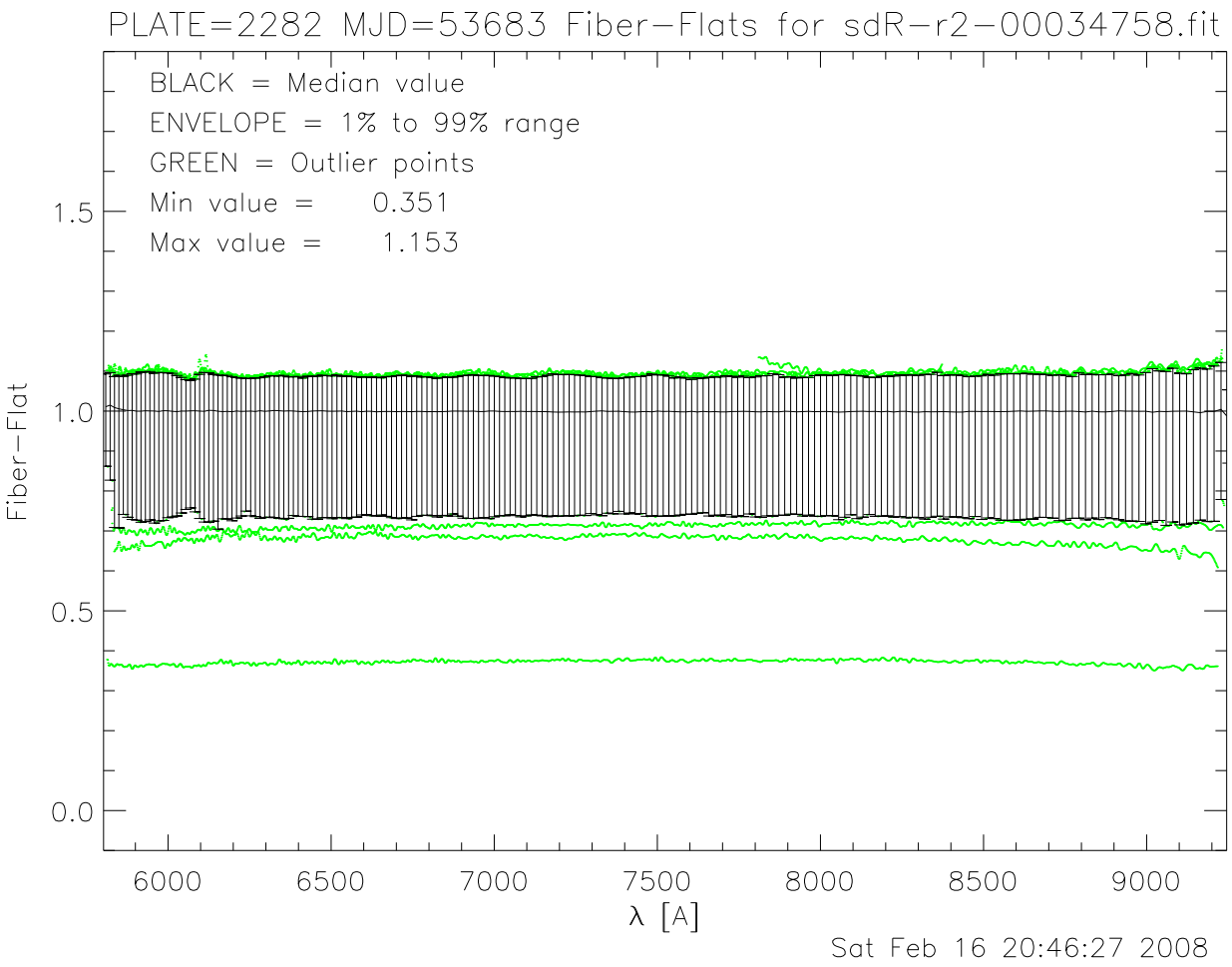

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

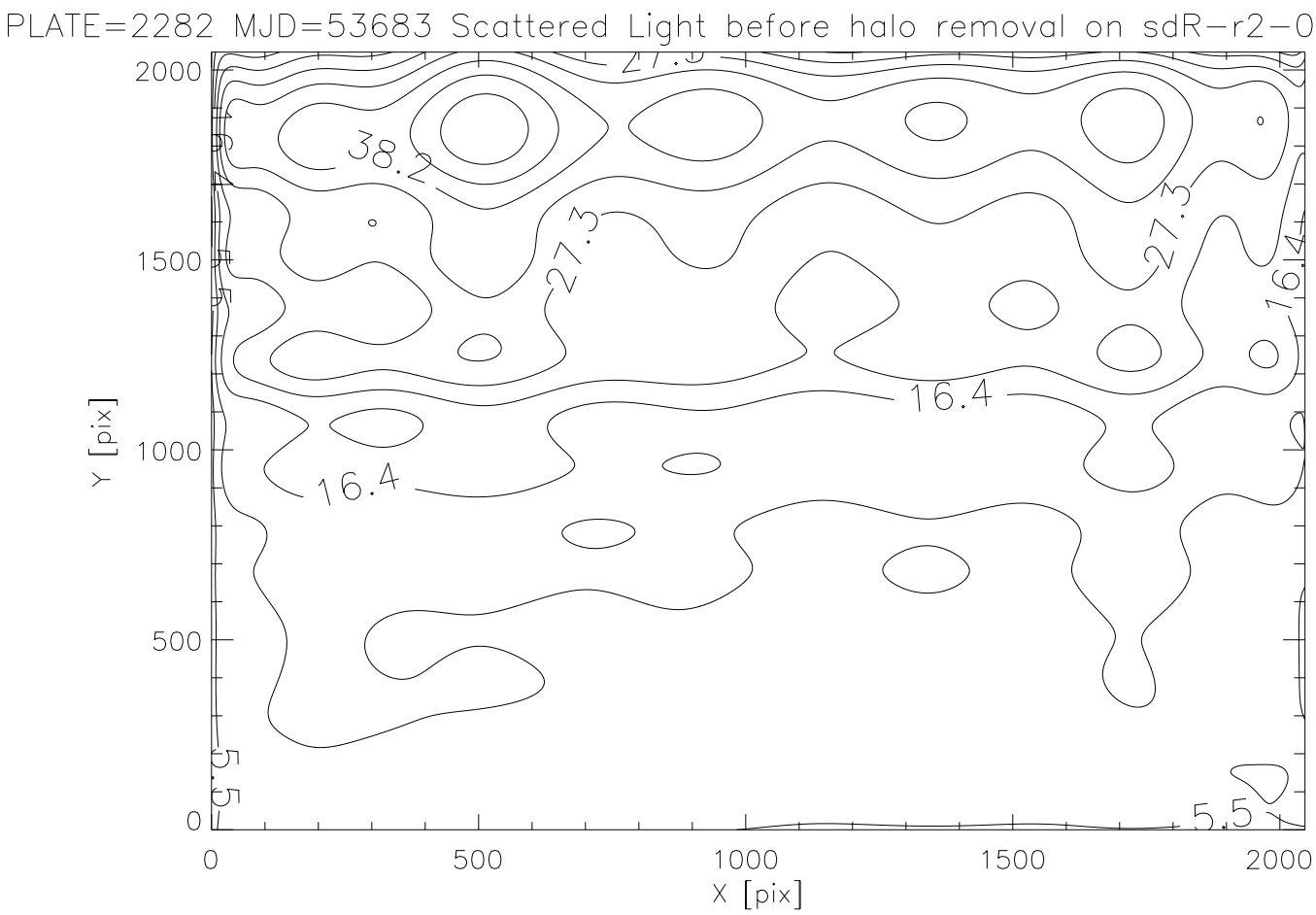

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

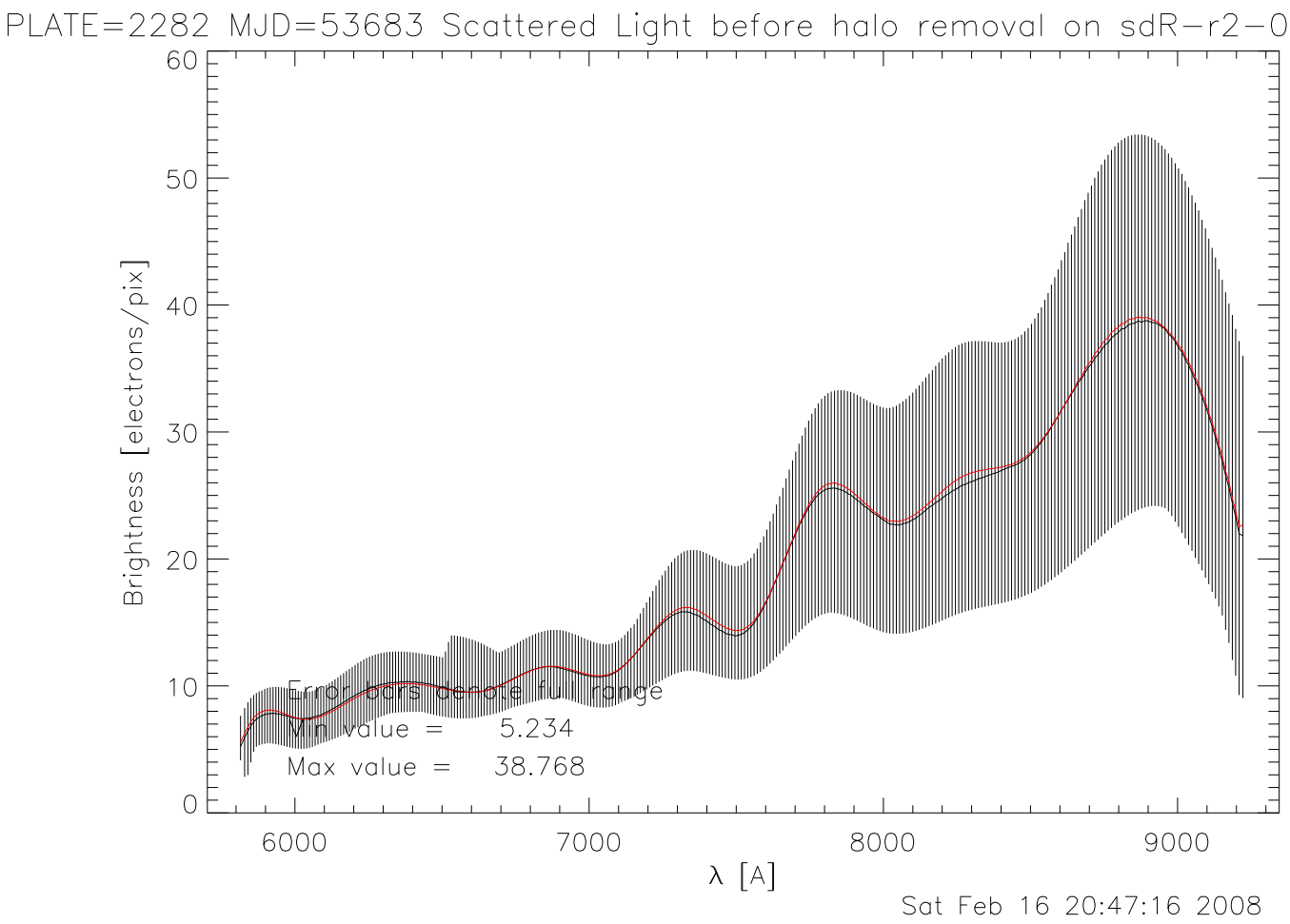

PLATE=2282 MJD=53683 flat extraction chi^2 for sdR−r2−00034758.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

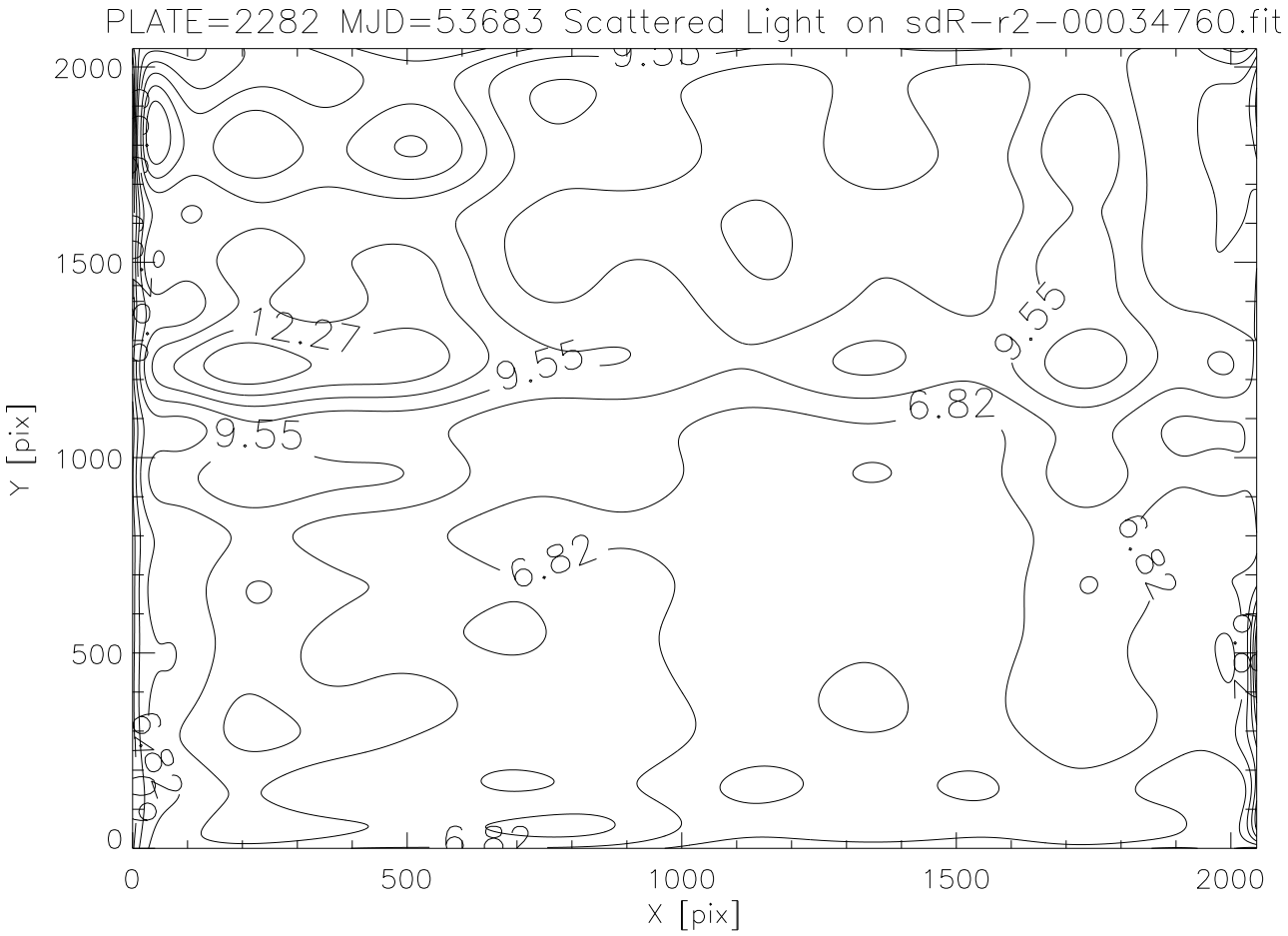

PLATE=2282 MJD=53683 Superflat sdR-r2-00034758.fit
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
6000
6500
7000
7500
8000
8500
9000

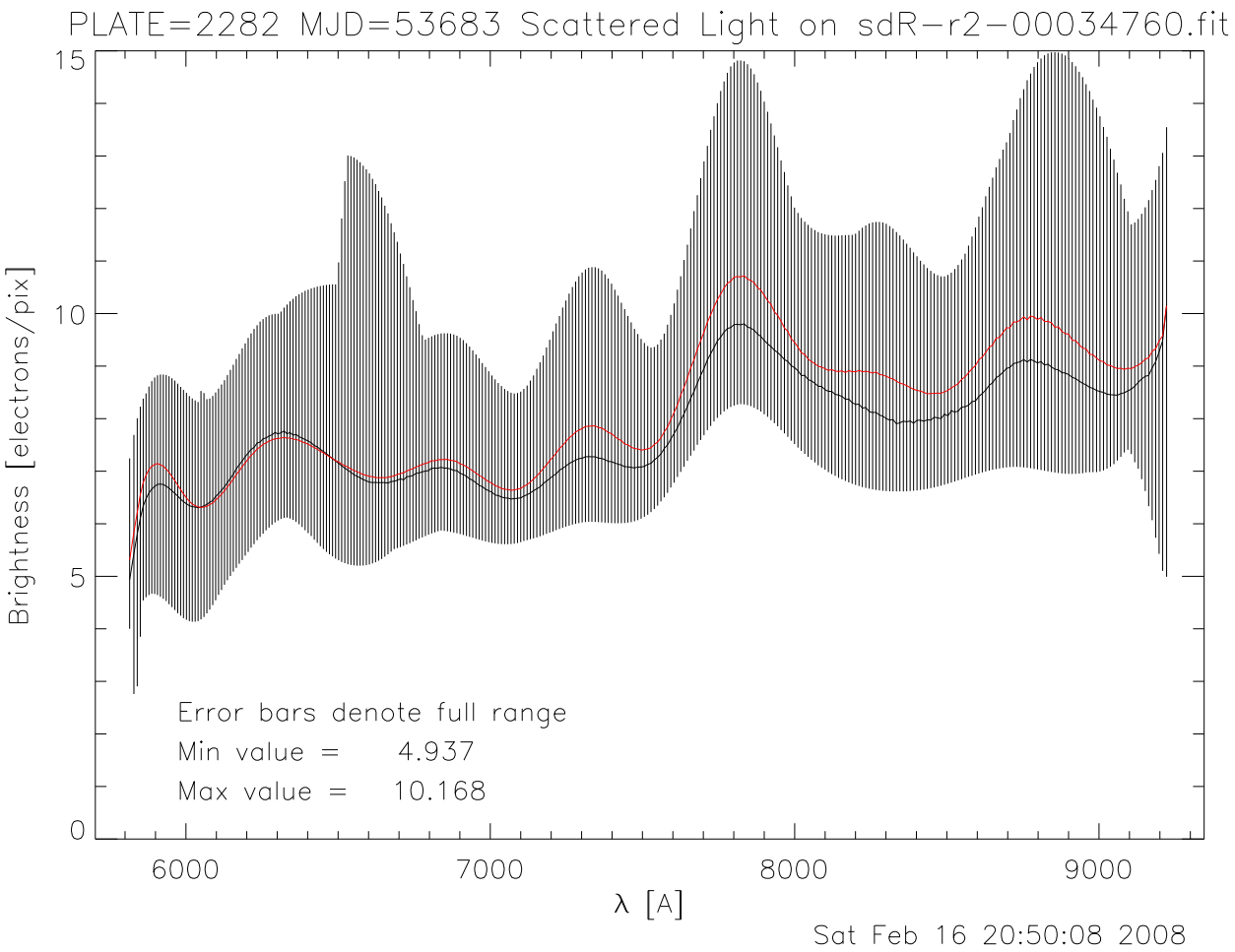

PLATE=2282 MJD=53683 Arcline Fit for sdR-r2-00034759.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Sat Feb 16 20:46:18 2008

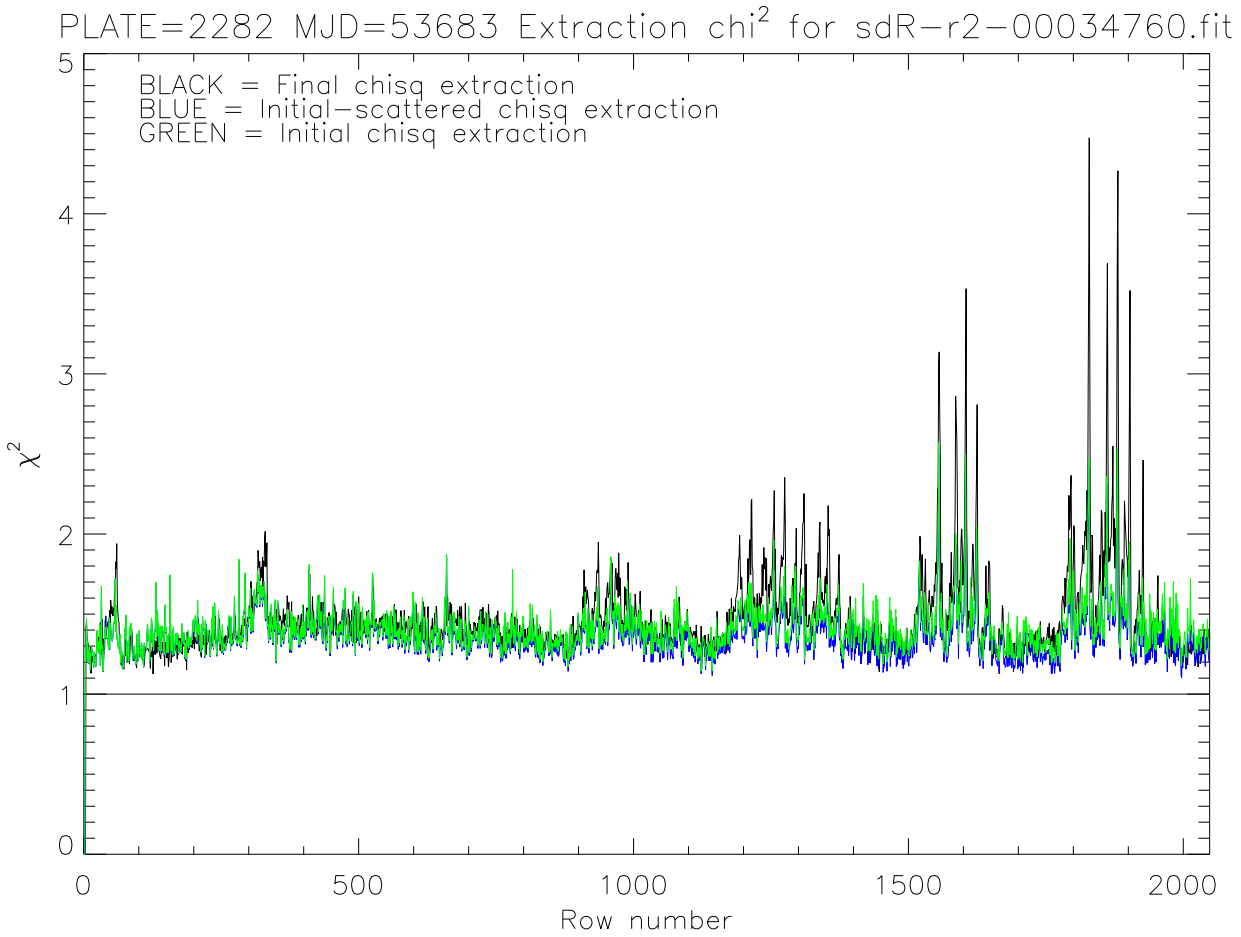

PLATE=2282 MJD=53683 Fiber−Flats for sdR−r2−00034758.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.351
Max value = 1.153
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sat Feb 16 20:46:27 2008

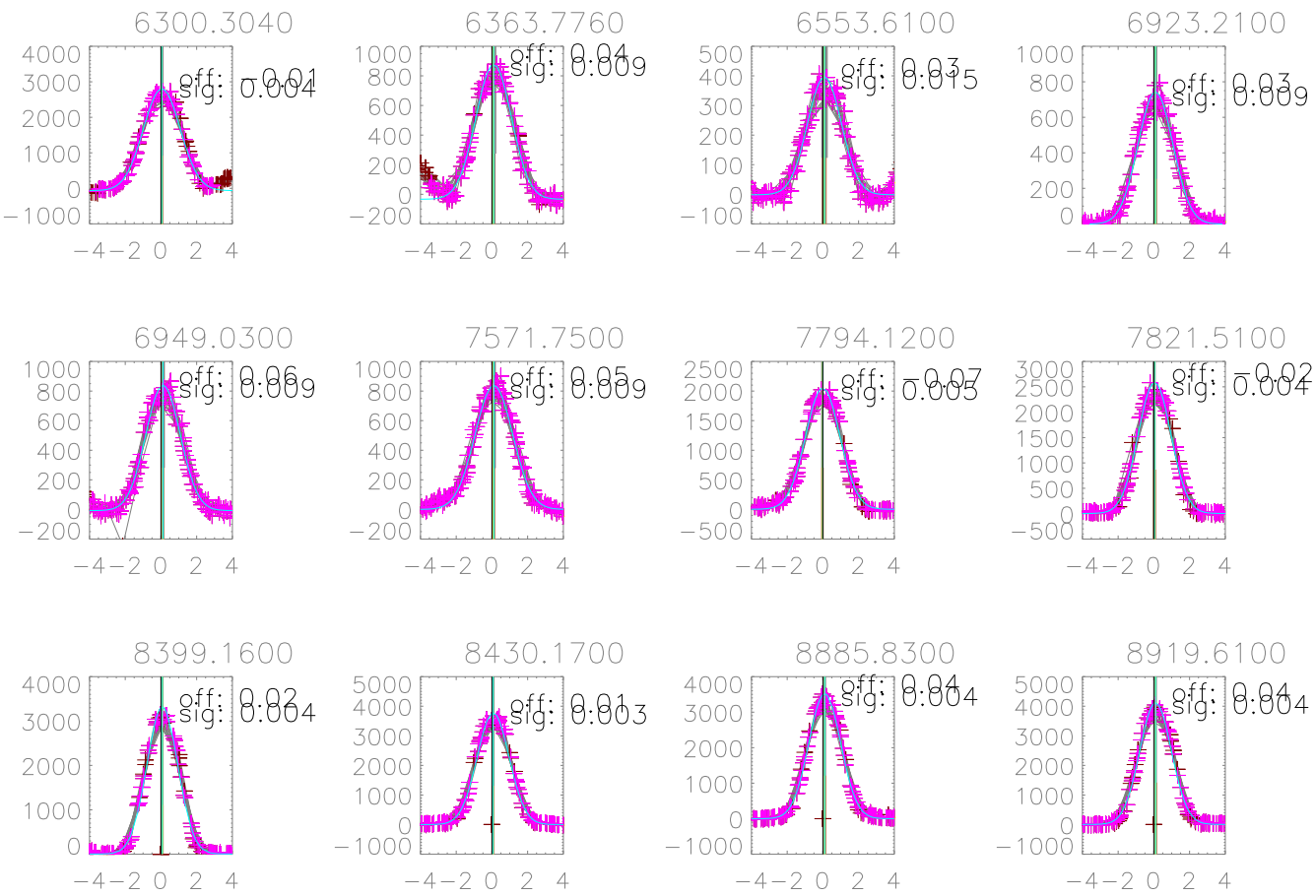

PLATE=2282 MJD=53683 Scattered Light before halo removal on sdR-r2-00034760.fi
38.2
27.3
27.3
16.4
16.4
16.4
5.5
5.5
Y [pix]
X [pix]
0
500
1000
1500
2000

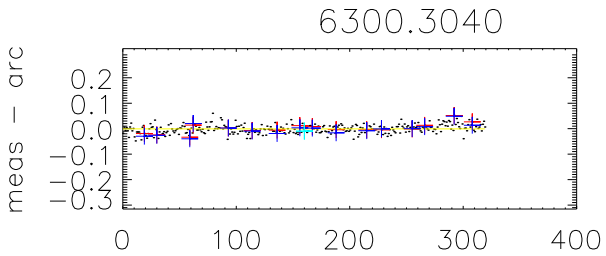

PLATE=2282 MJD=53683 Scattered Light before halo removal on sdR-r2-00034760.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.234
Max value = 38.768
Sat Feb 16 20:47:16 2008

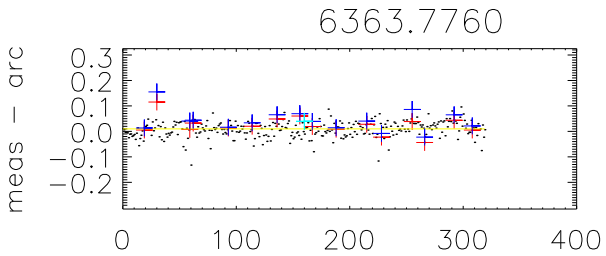

PLATE=2282 MJD=53683 Scattered Light on sdR-r2-00034760.fit
9.55
12.27
9.55
9.55
6.82
6.82
6.82

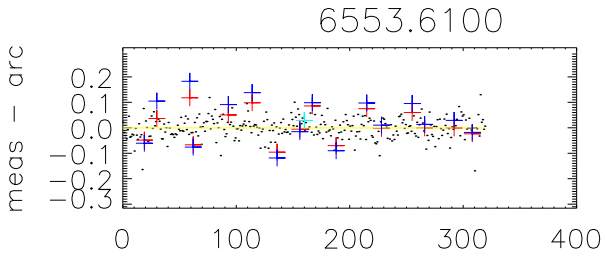

PLATE=2282 MJD=53683 Scattered Light on sdR-r2-00034760.fit
Brightness [electrons/pix]
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 4.937
Max value = 10.168
Sat Feb 16 20:50:08 2008

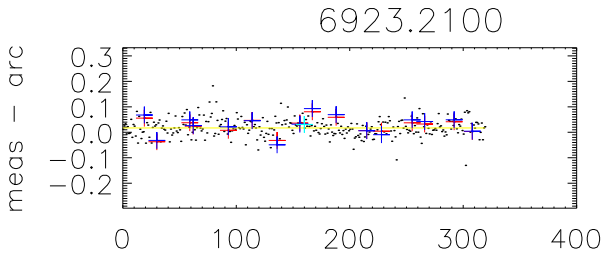

PLATE=2282 MJD=53683 Extraction chi^2 for sdR−r2−00034760.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

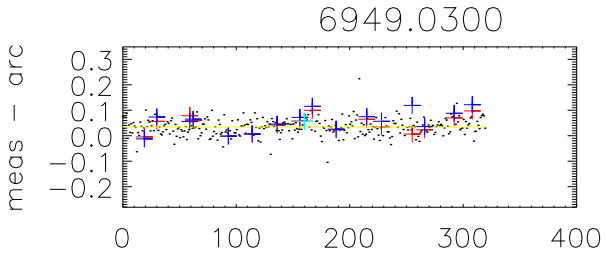

6300.3040
off: −0.01
sig: 0.004
6363.7760
off: 0.04
sig: 0.009
6553.6100
off: 0.03
sig: 0.015
6923.2100
off: 0.03
sig: 0.009
6949.0300
off: 0.06
sig: 0.009
7571.7500
off: 0.05
sig: 0.009
7794.1200
off: −0.07
sig: 0.005
7821.5100
off: −0.02
sig: 0.004
8399.1600
off: 0.02
sig: 0.004
8430.1700
off: 0.01
sig: 0.003
8885.8300
off: 0.04
sig: 0.004
8919.6100
off: 0.04
sig: 0.004

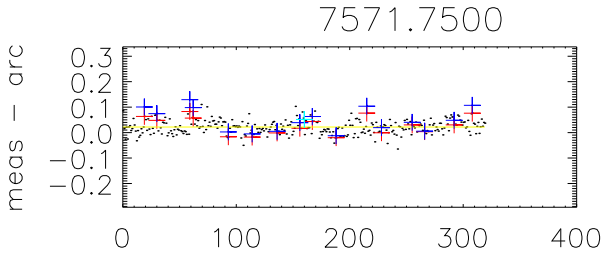

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

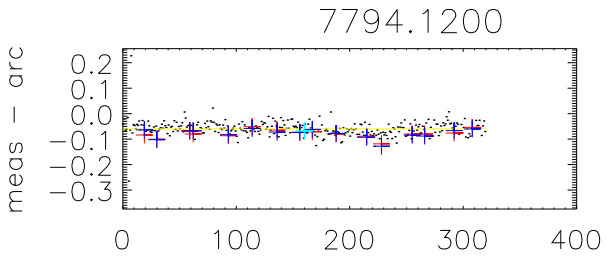

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

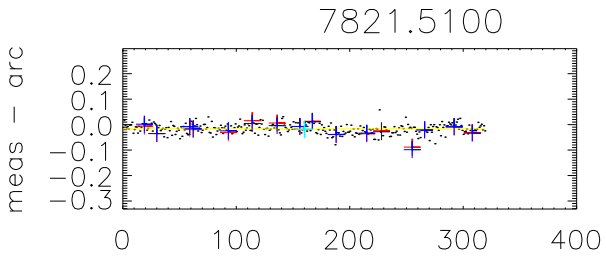

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

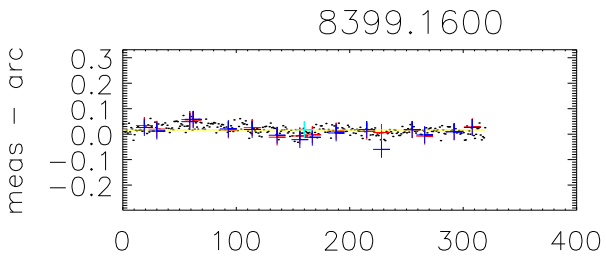

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

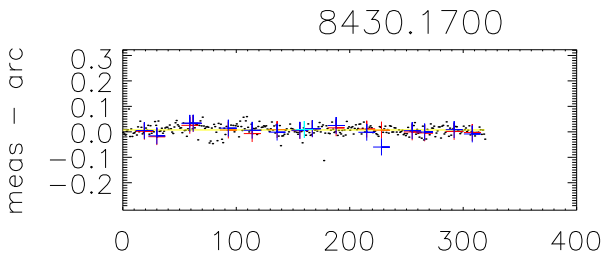

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

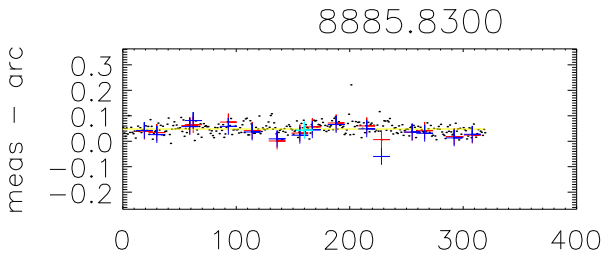

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

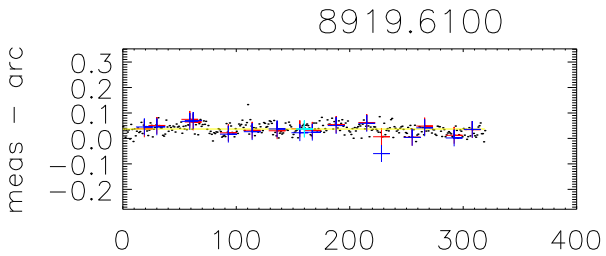

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

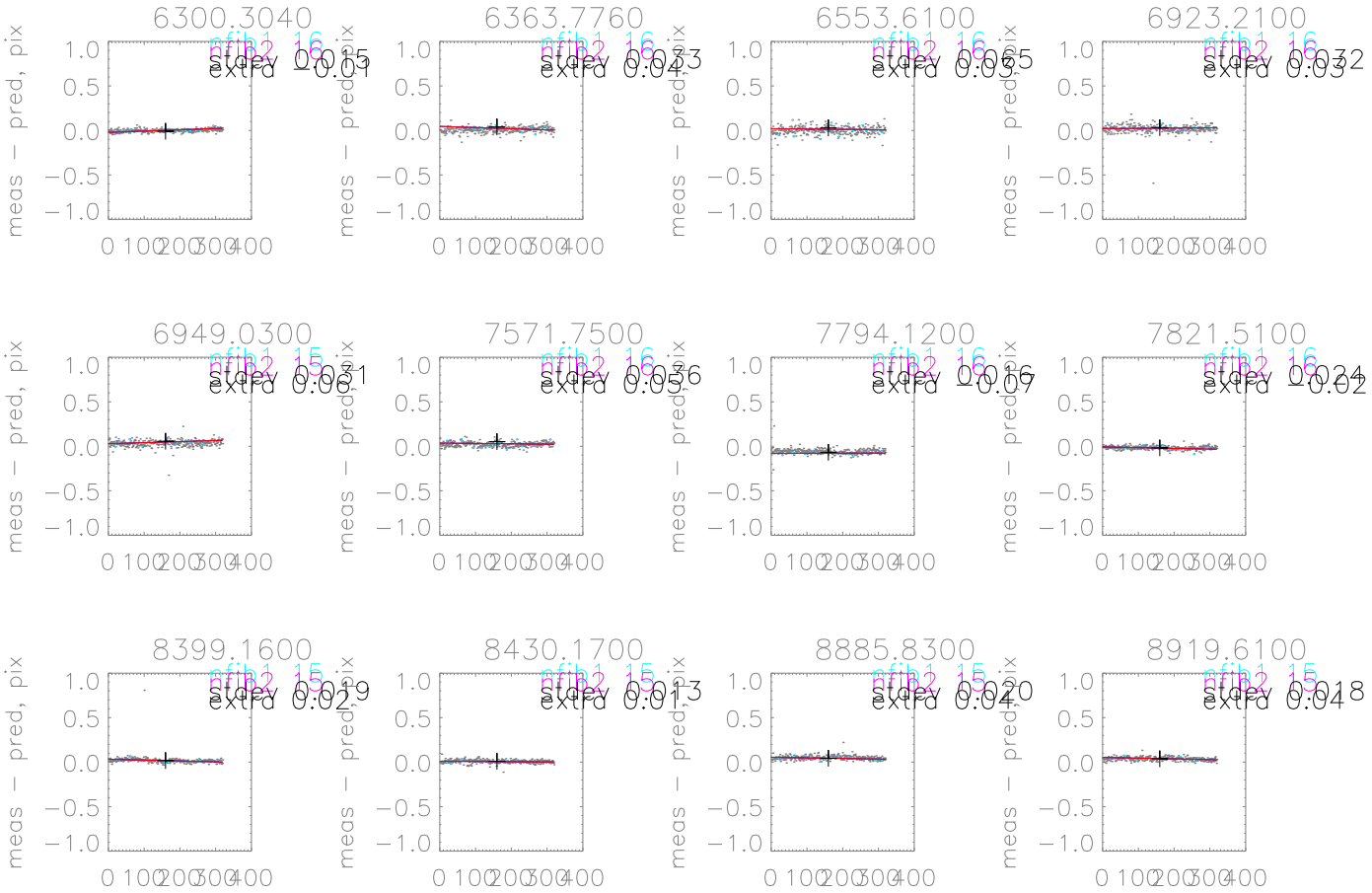

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

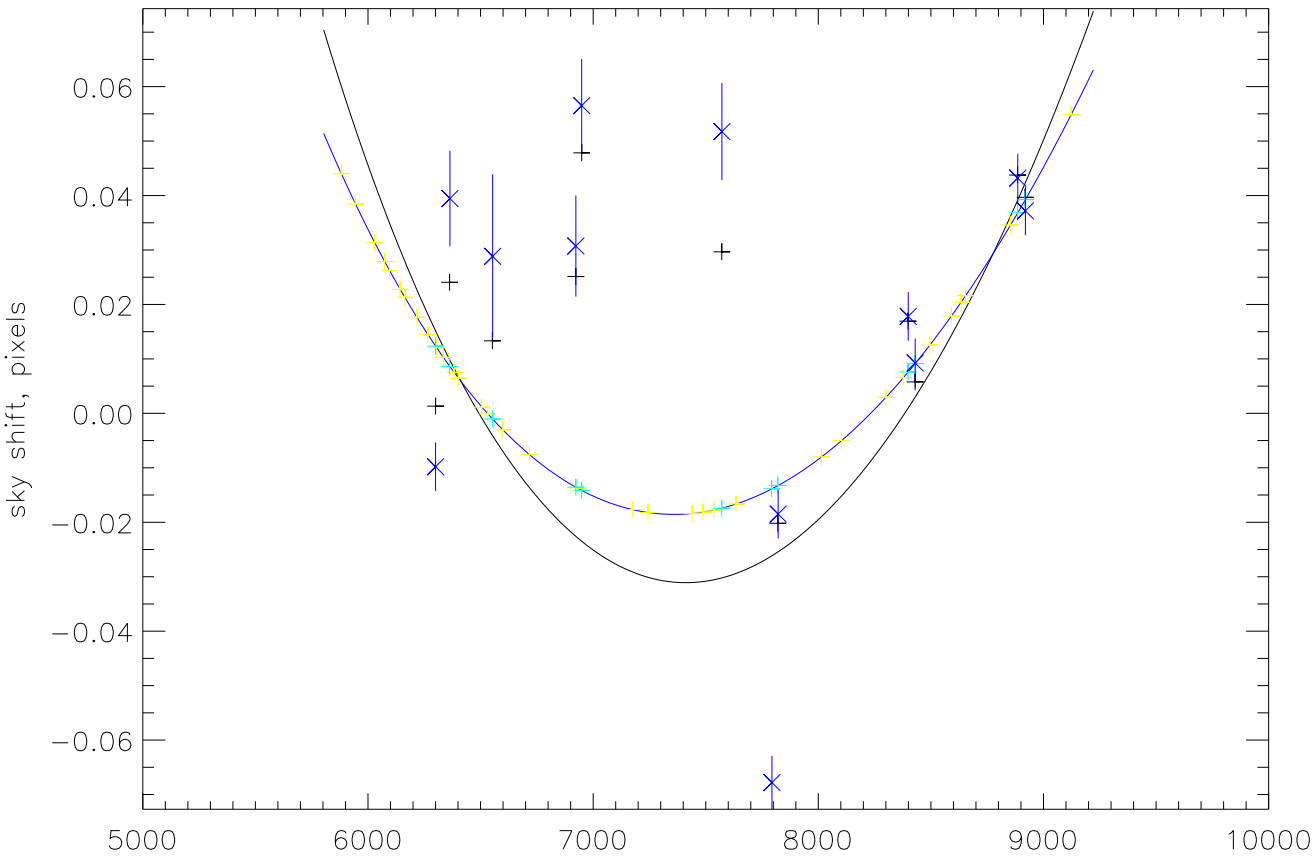

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

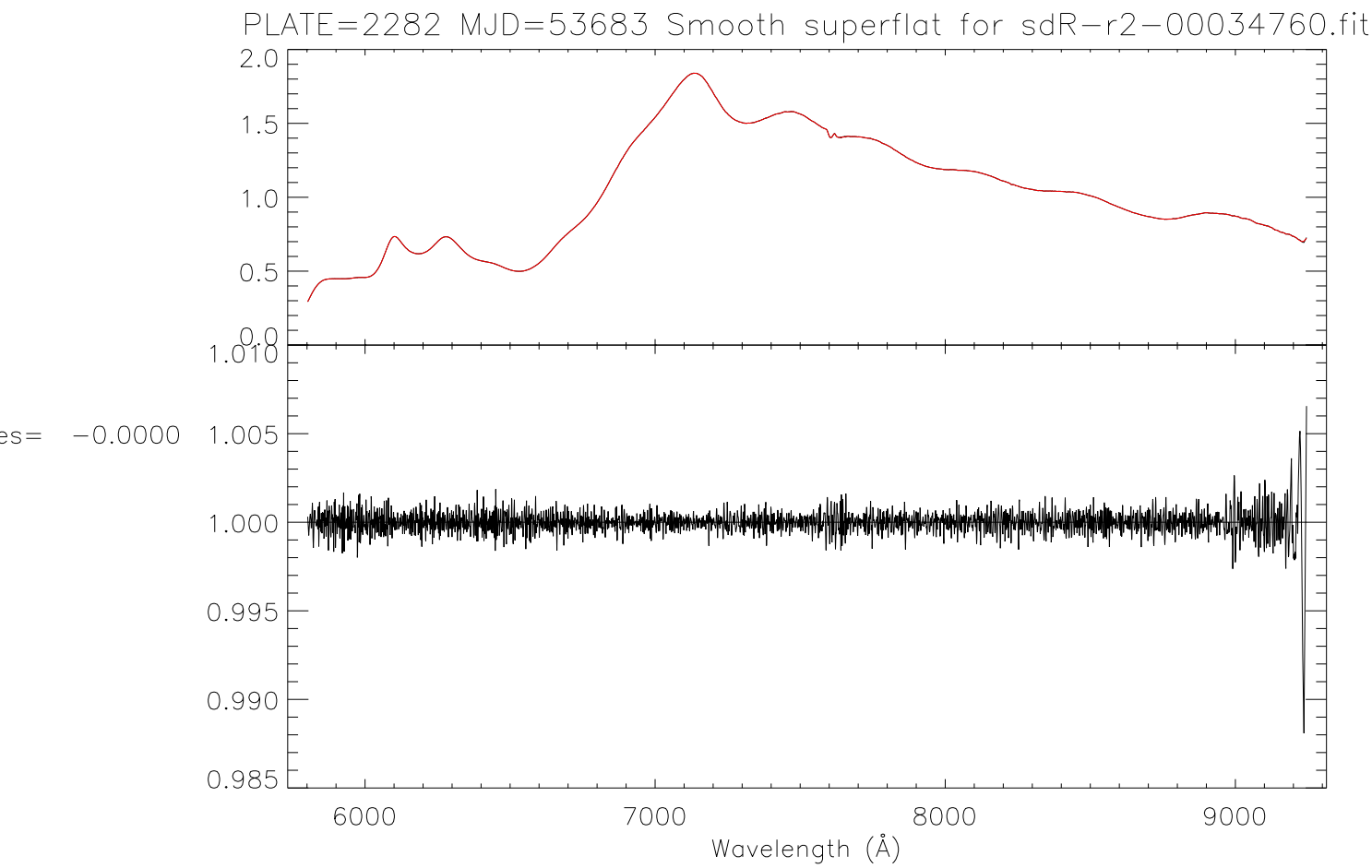

8430.1700
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

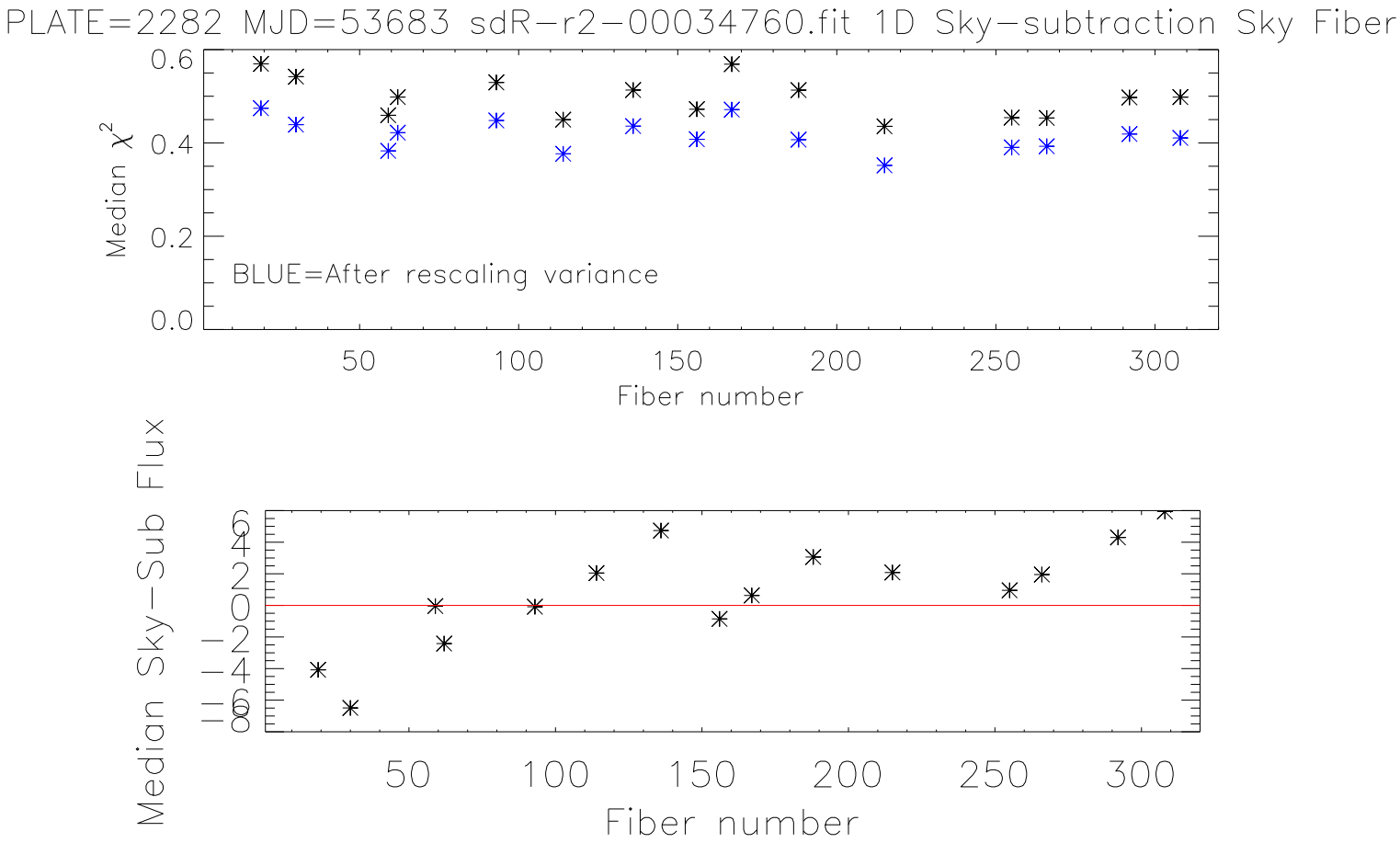

8885.8300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

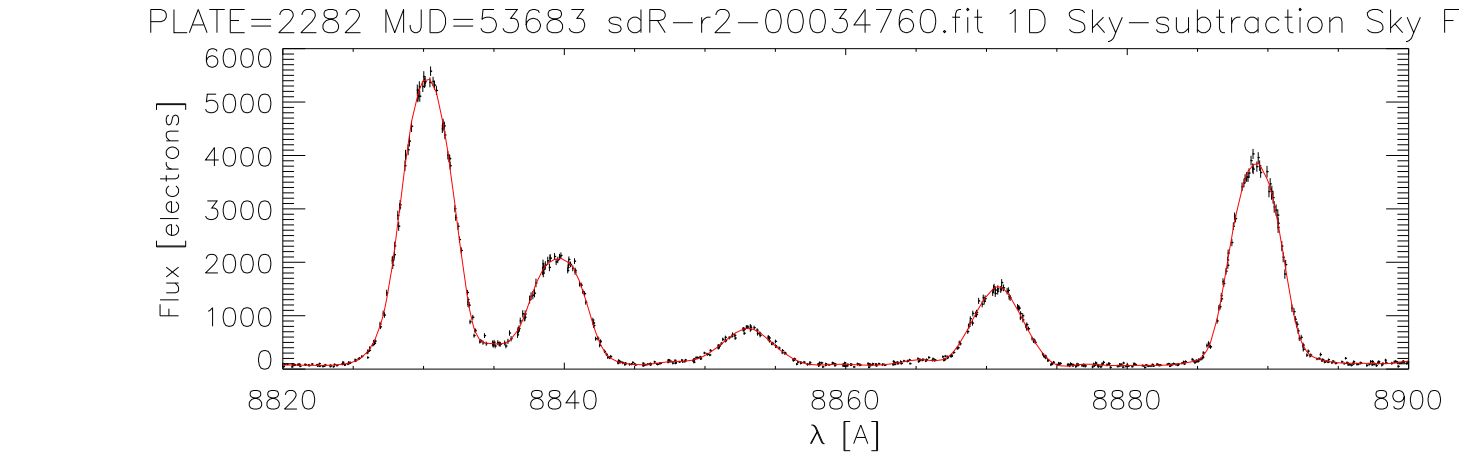

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

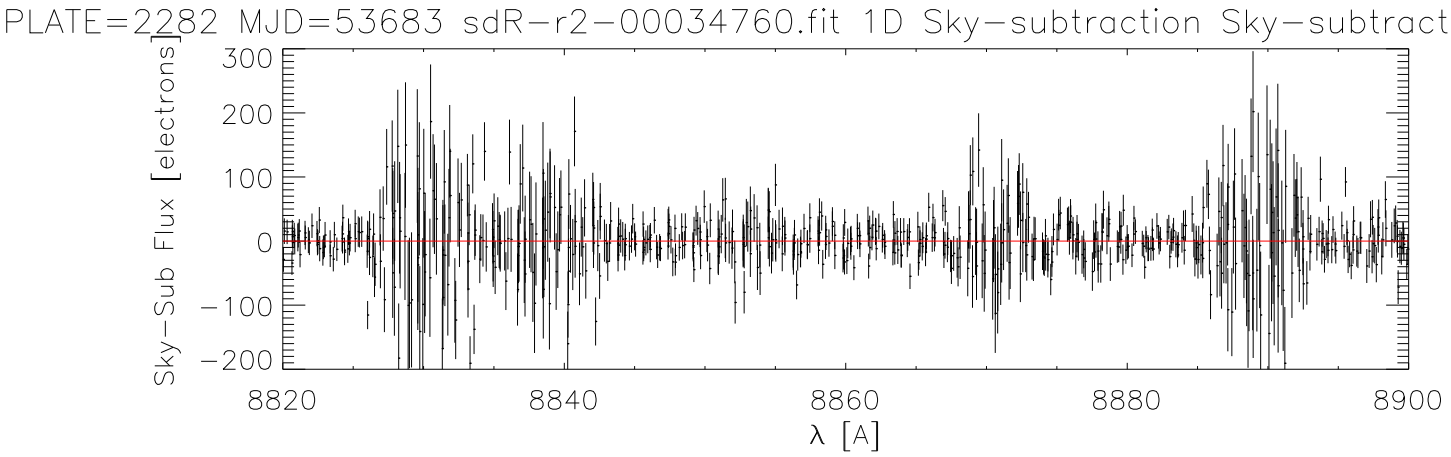

6300.3040
stdev 0.015
extra −0.01
6363.7760
stdev 0.033
extra 0.04
6553.6100
stdev 0.035
extra 0.05
6923.2100
stdev 0.032
extra 0.03
6949.0300
stdev 0.031
extra 0.06
7571.7500
stdev 0.036
extra 0.05
7794.1200
stdev 0.016
extra −0.07
7821.5100
stdev 0.024
extra −0.02
8399.1600
stdev 0.019
extra 0.02
8430.1700
stdev 0.013
extra 0.01
8885.8300
stdev 0.020
extra 0.04
8919.6100
stdev 0.018
extra 0.04
meas − pred, pix
mfb2 16
mfb2 15

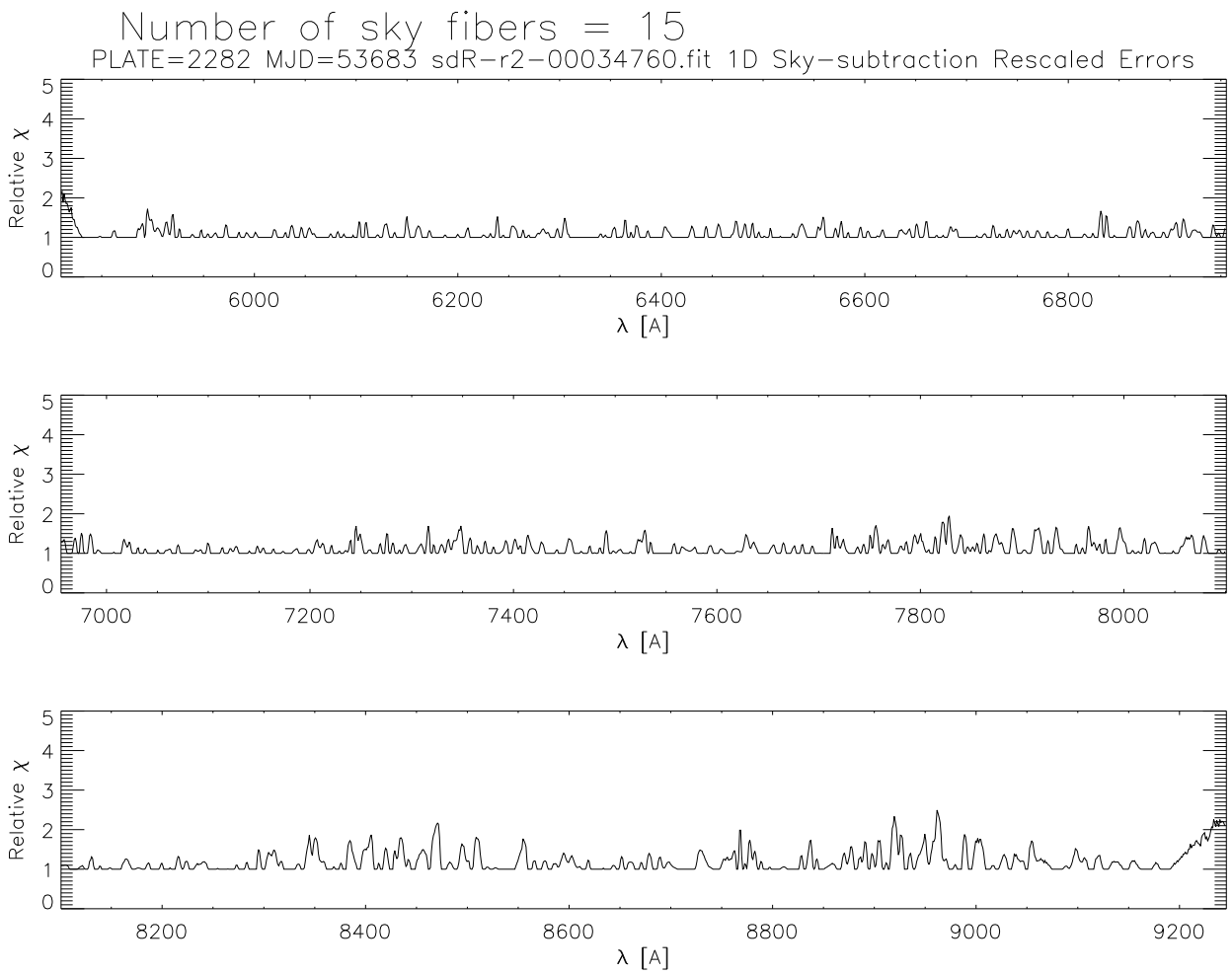

sky shift, pixels
0.06
0.04
0.02
0.00
−0.02
−0.04
−0.06
5000
6000
7000
8000
9000
10000

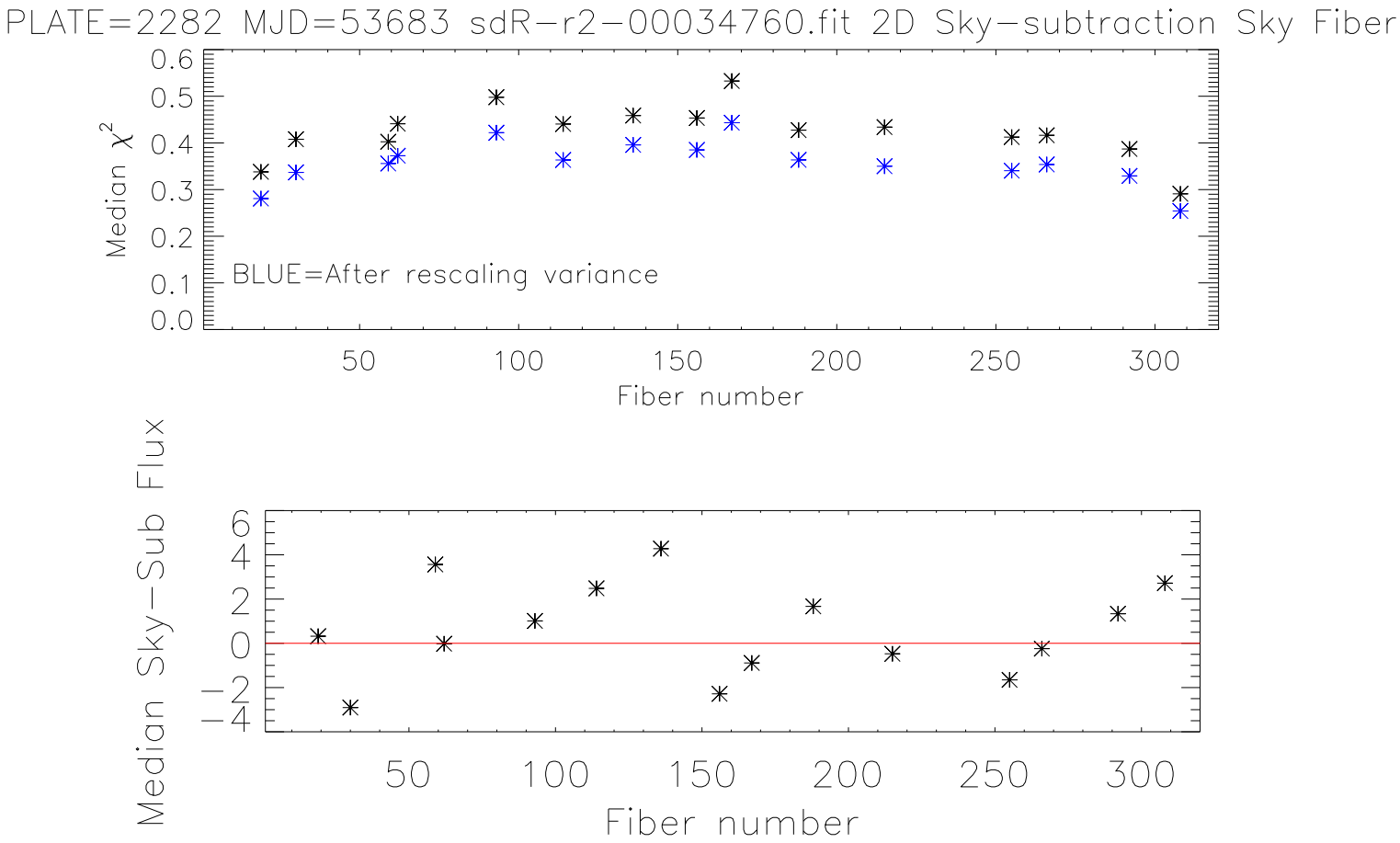

PLATE=2282 MJD=53683 Smooth superflat for sdR-r2-00034760.fit
2.0
1.5
1.0
0.5
0.0
es= -0.0000
1.010
1.005
1.000
0.995
0.990
0.985
6000
7000
8000
9000
Wavelength (Å)

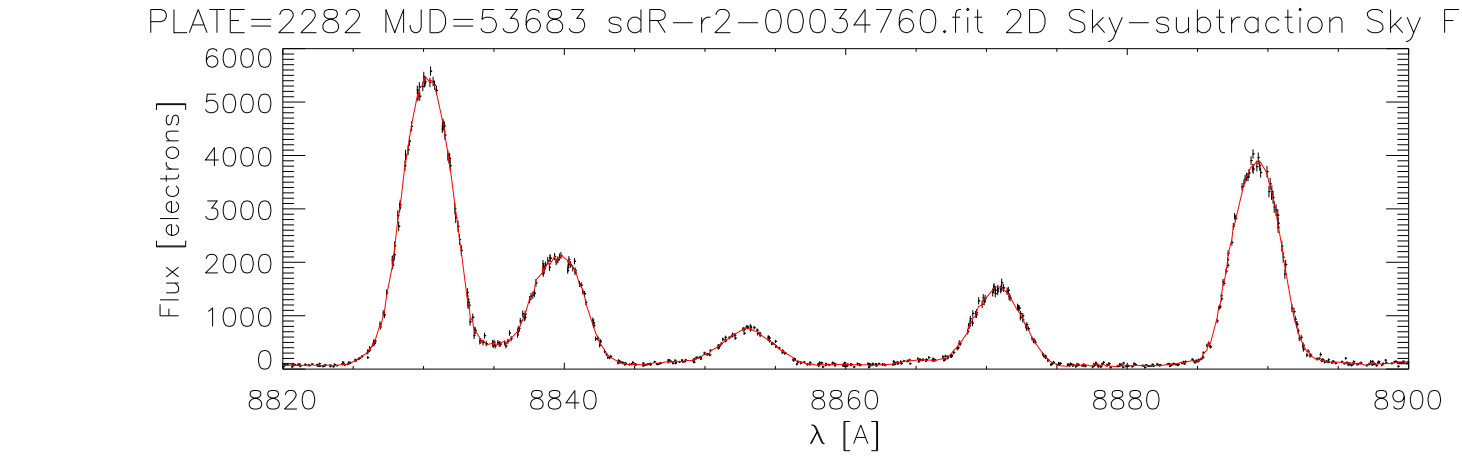

PLATE=2282 MJD=53683 sdR-r2-00034760.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

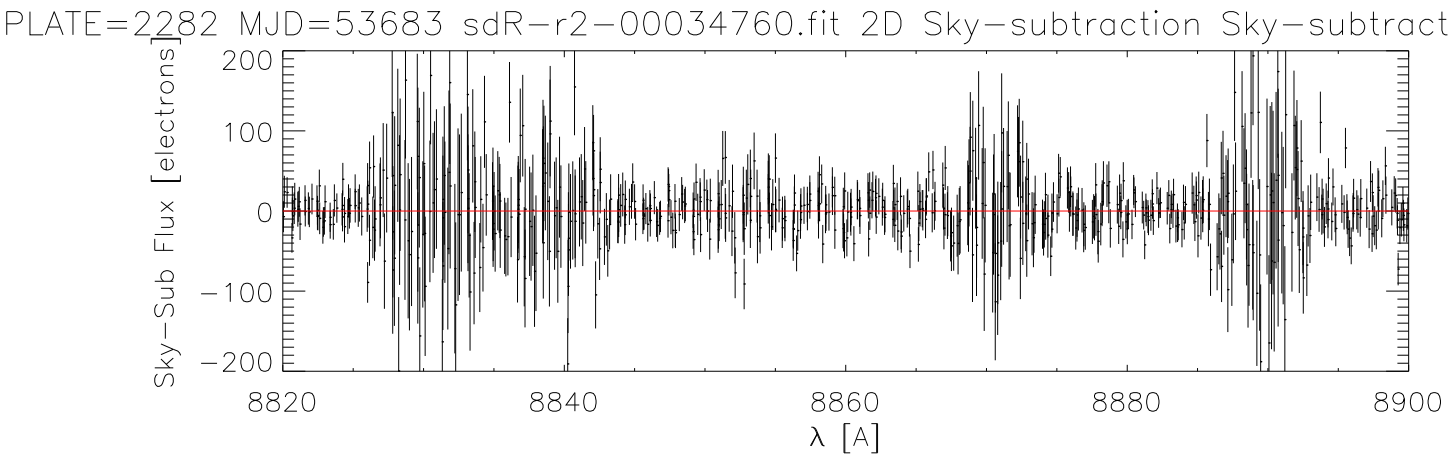

PLATE=2282 MJD=53683 sdR-r2-00034760.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

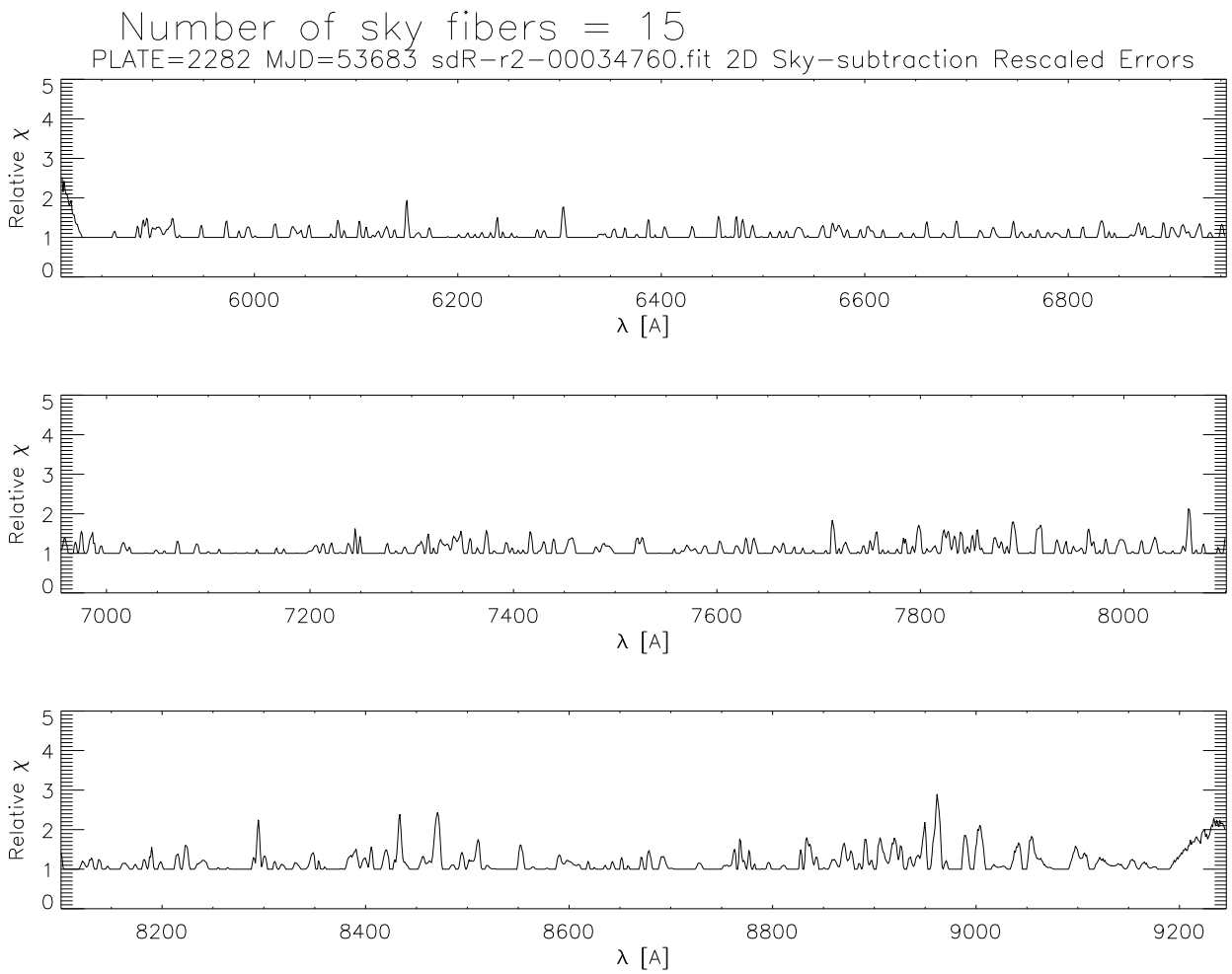

PLATE=2282 MJD=53683 sdR-r2-00034760.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

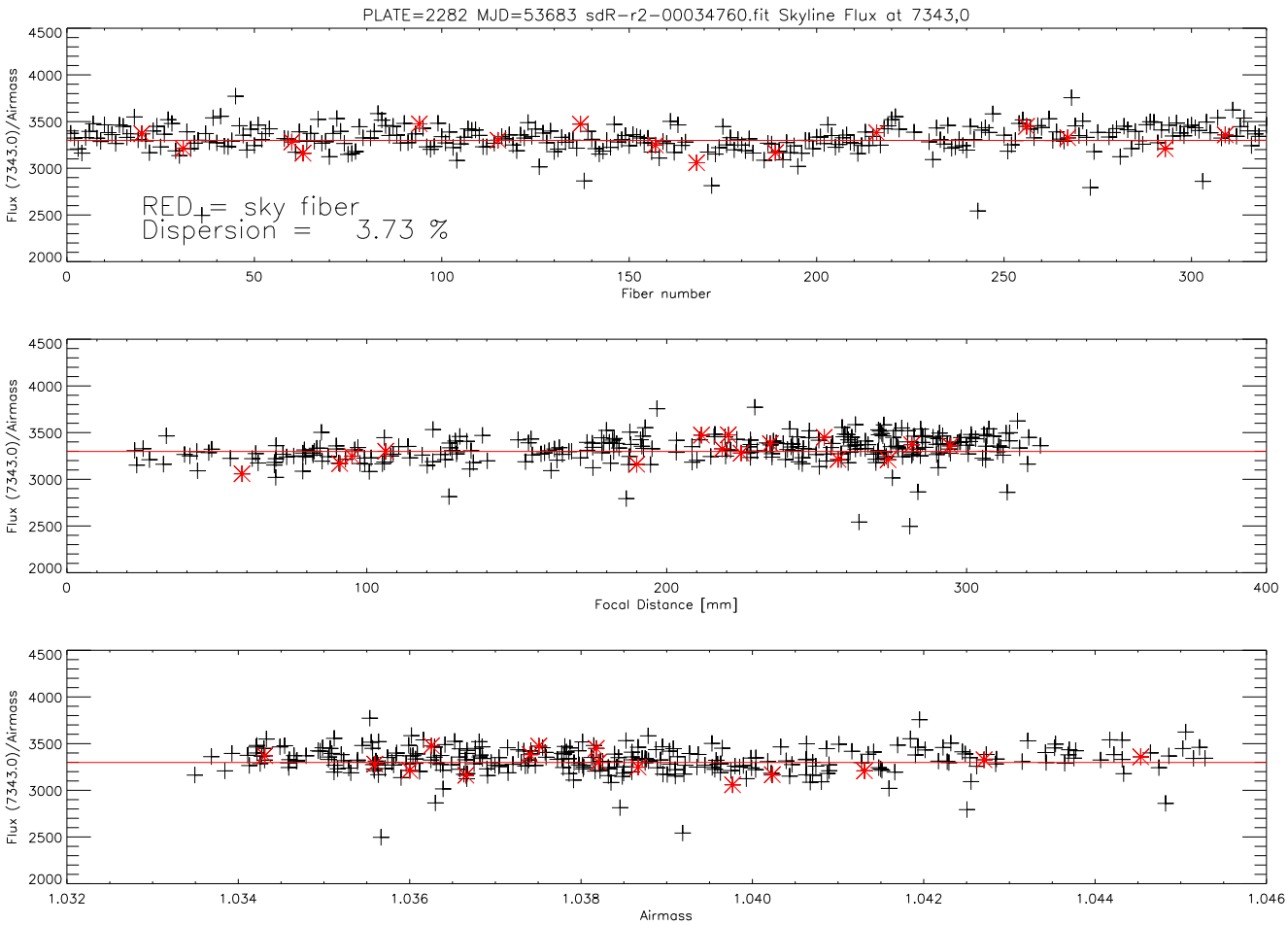

Number of sky fibers = 15
PLATE=2282 MJD=53683 sdR-r2-00034760.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

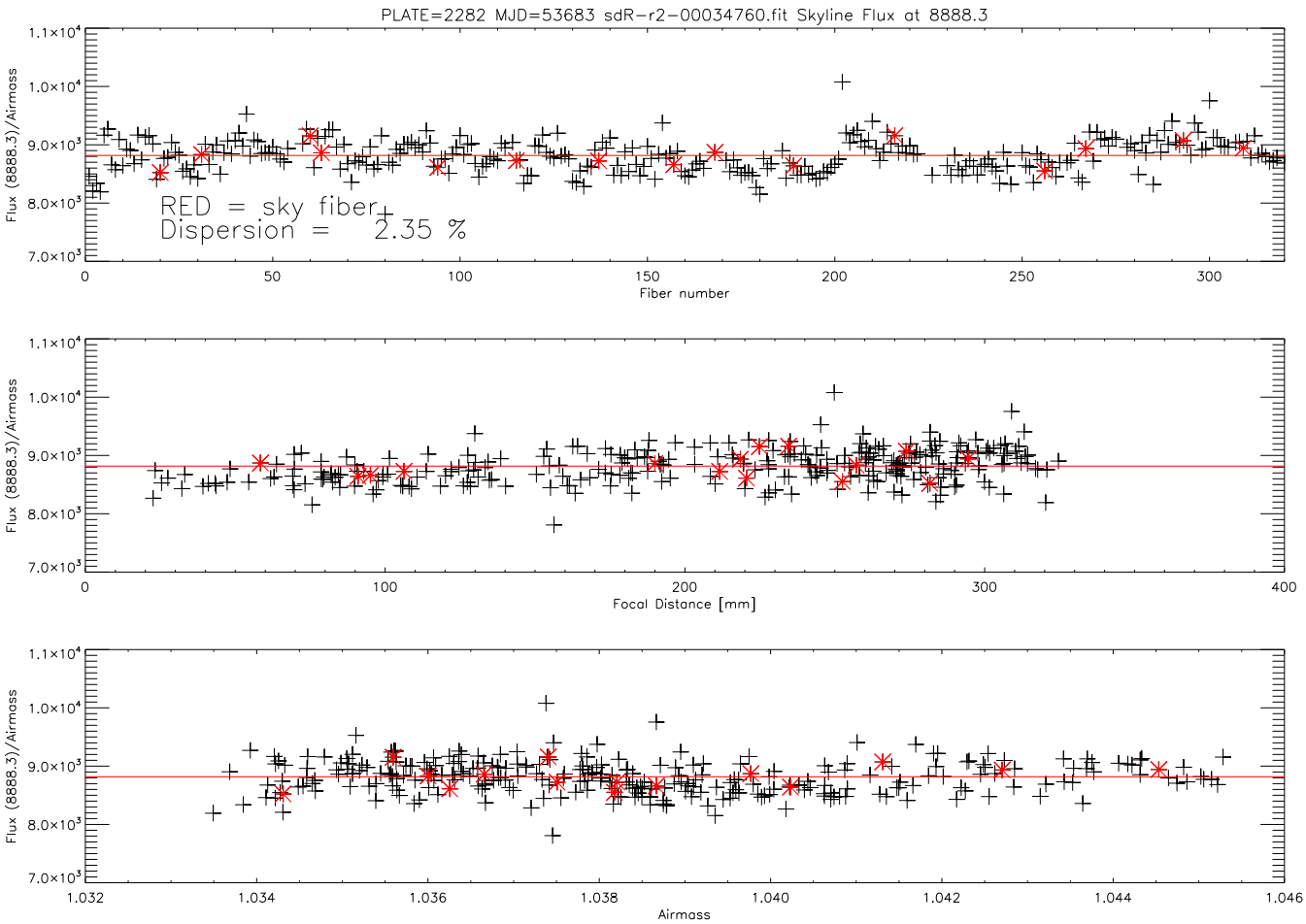

PLATE=2282 MJD=53683 sdR-r2-00034760.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

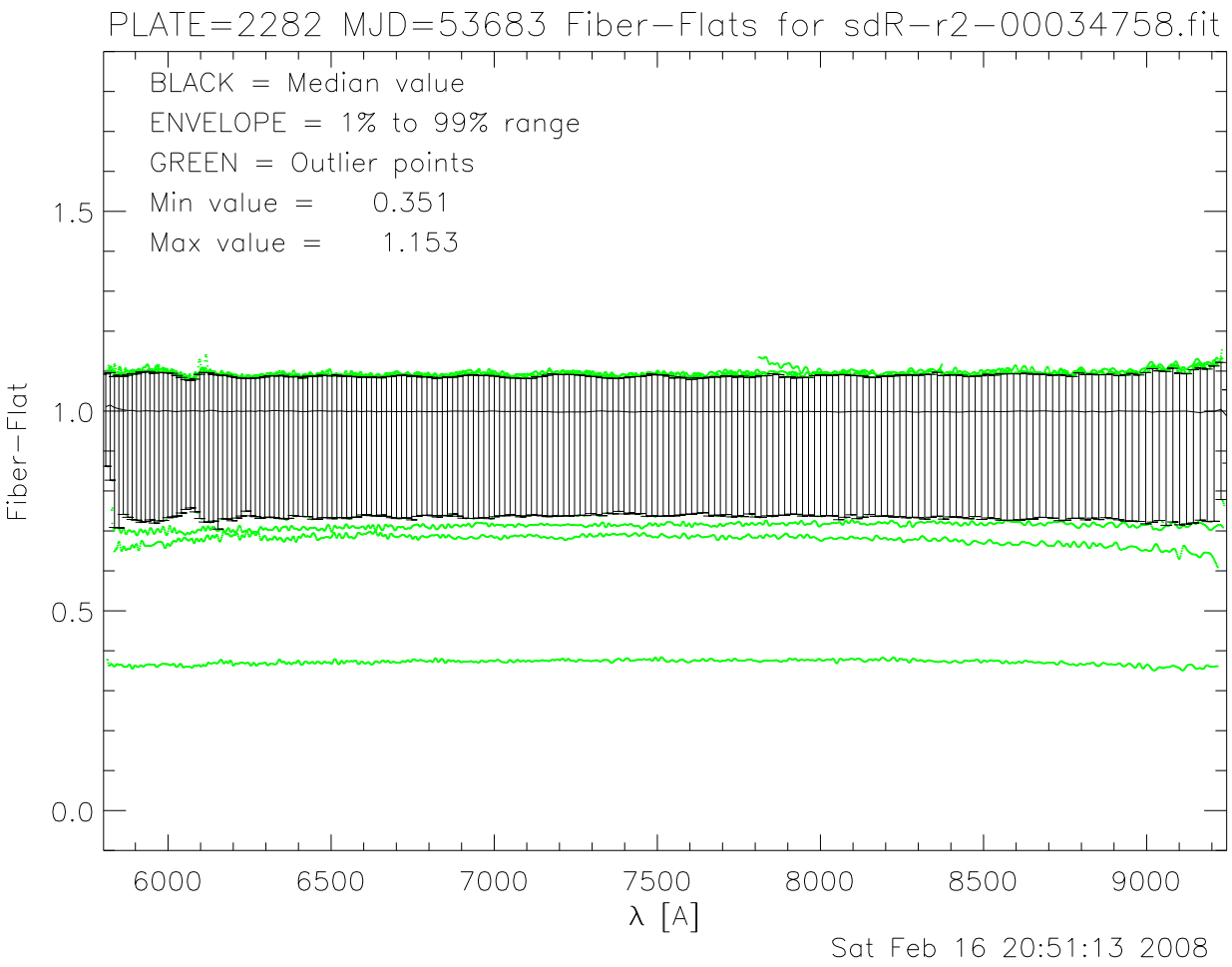

PLATE=2282 MJD=53683 sdR-r2-00034760.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

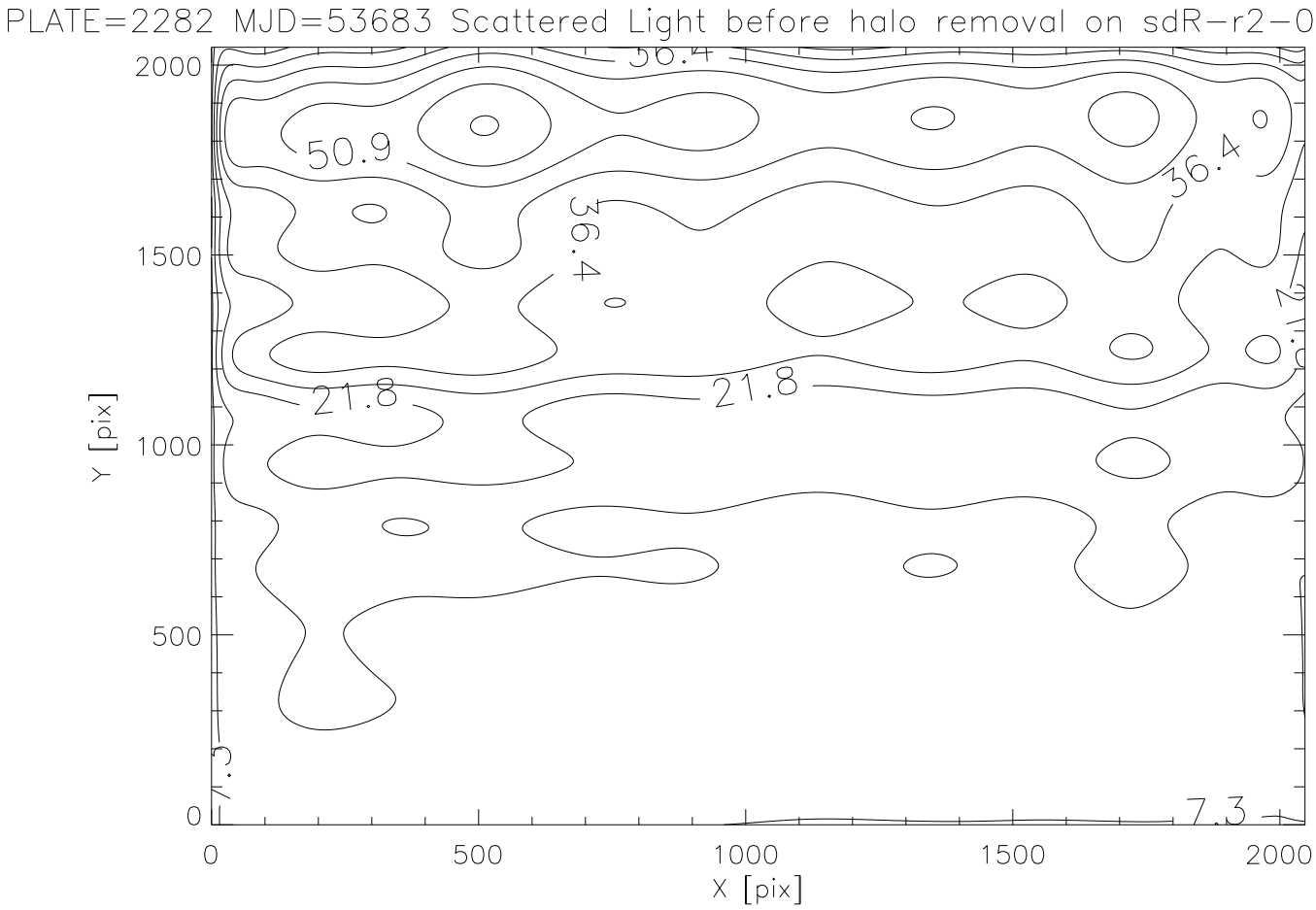

PLATE=2282 MJD=53683 sdR-r2-00034760.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

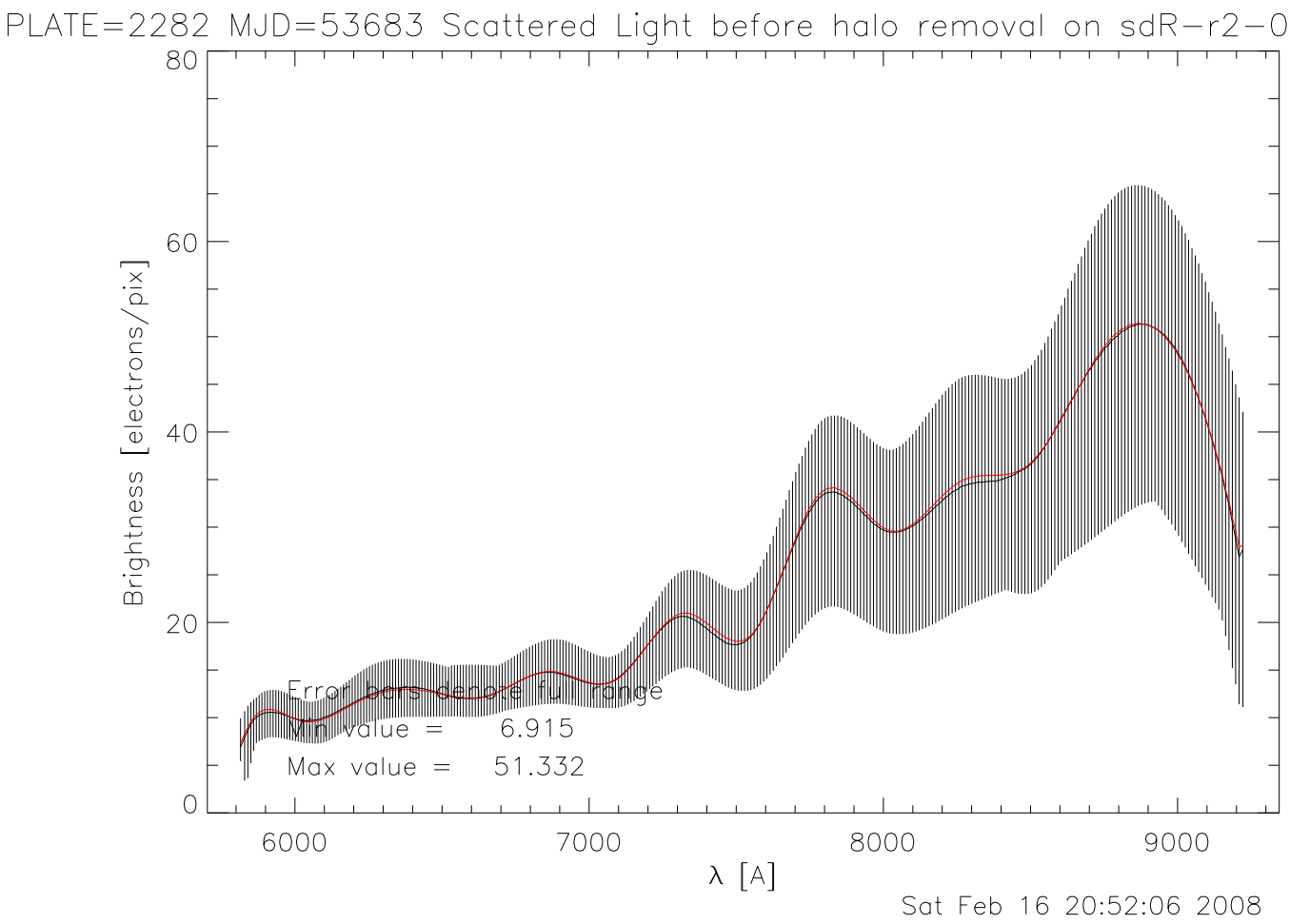

Number of sky fibers = 15
PLATE=2282 MJD=53683 sdR-r2-00034760.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

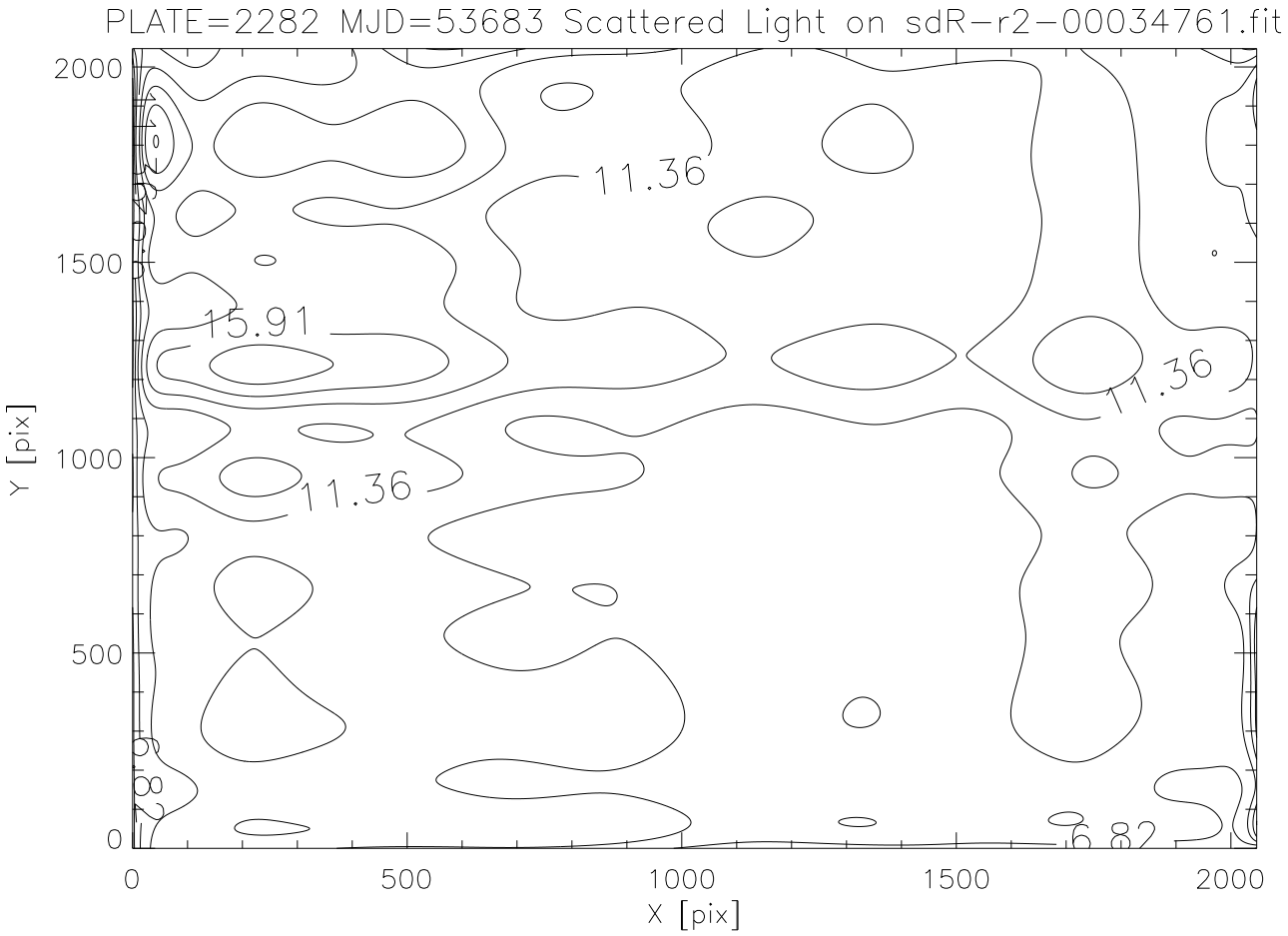

PLATE=2282 MJD=53683 sdR-r2-00034760.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED+= sky fiber
Dispersion = 3.73 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

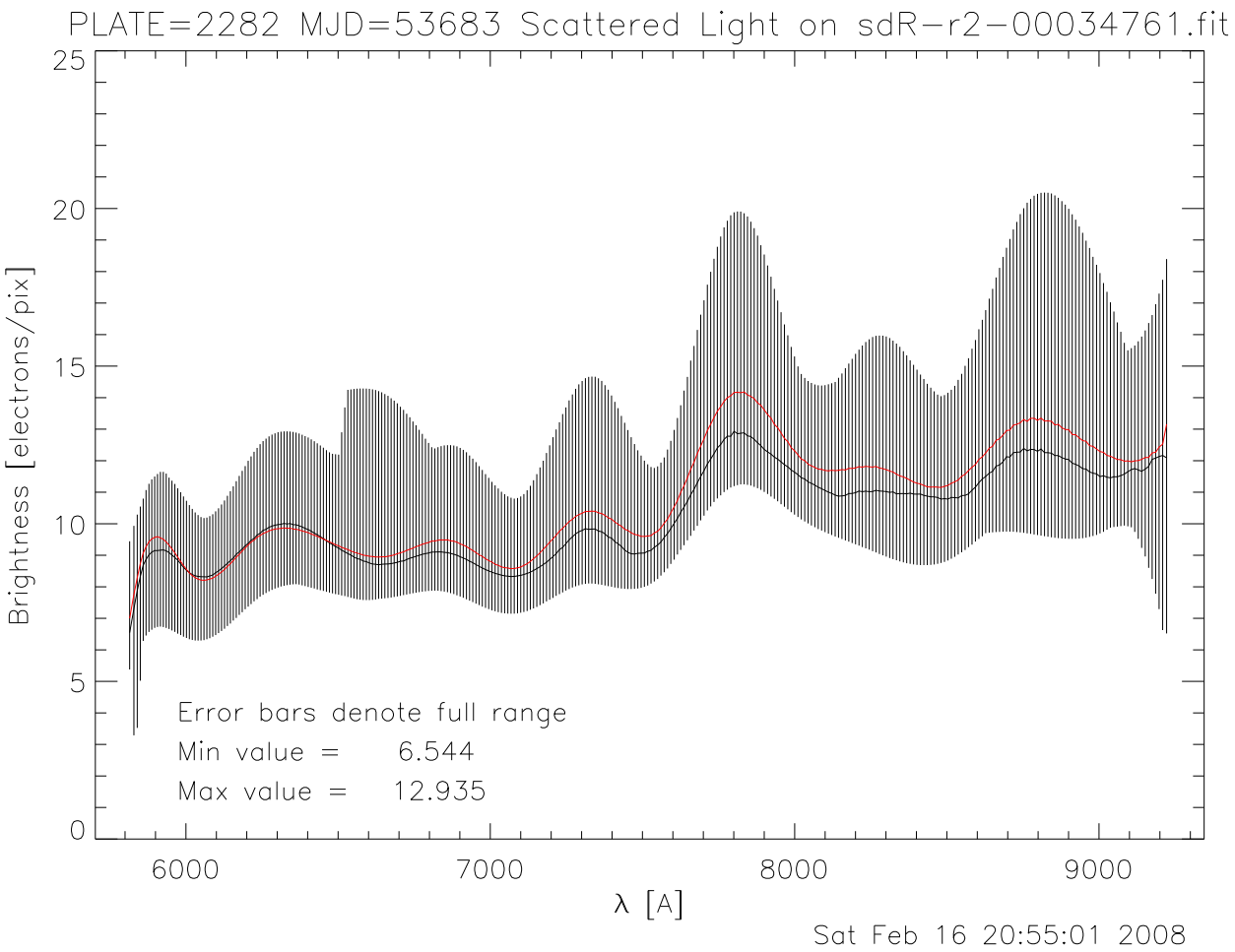

PLATE=2282 MJD=53683 sdR-r2-00034760.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.35 %
Fiber number
Focal Distance [mm]
Airmass

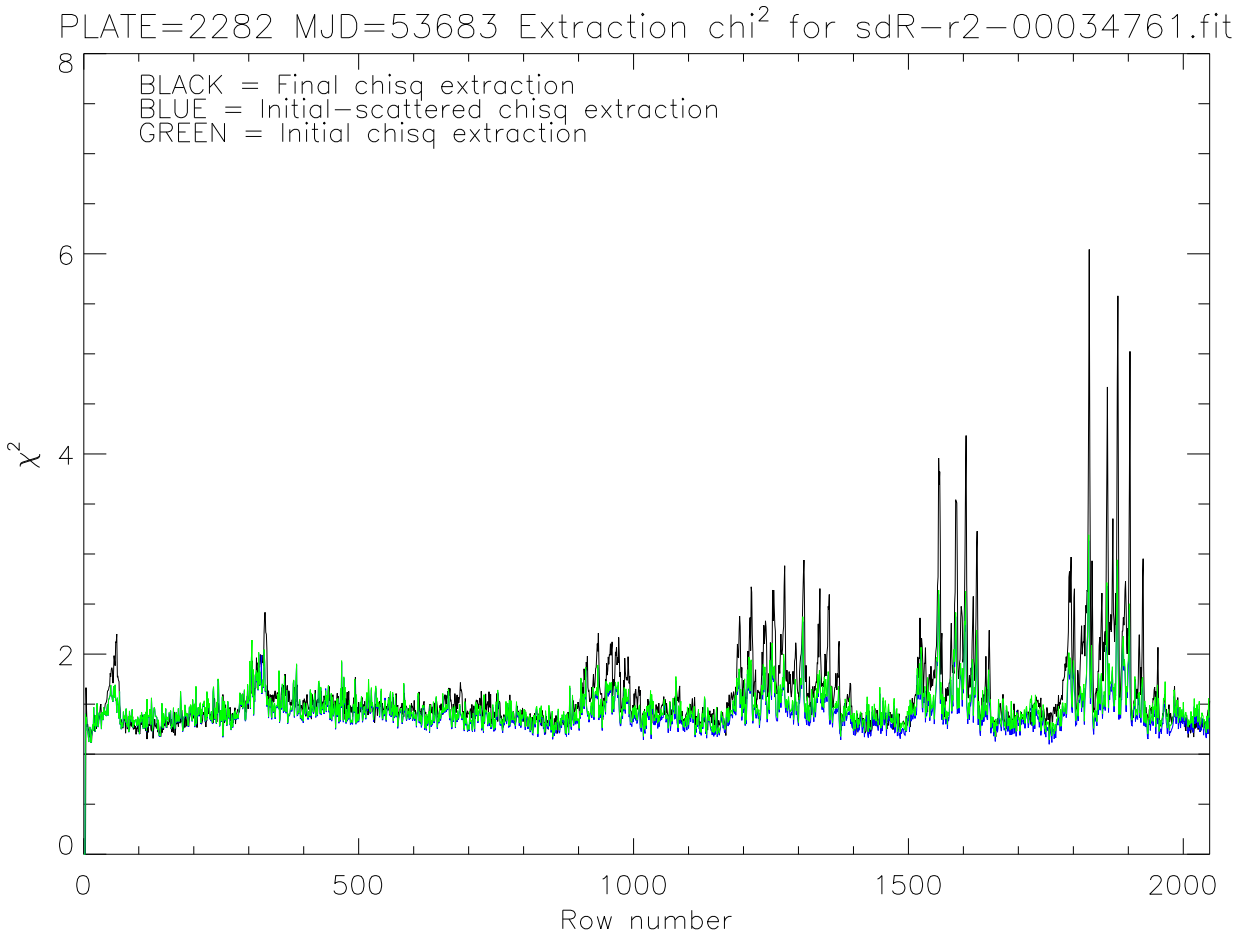

PLATE=2282 MJD=53683 Fiber−Flats for sdR−r2−00034758.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.351
Max value = 1.153
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sat Feb 16 20:51:13 2008

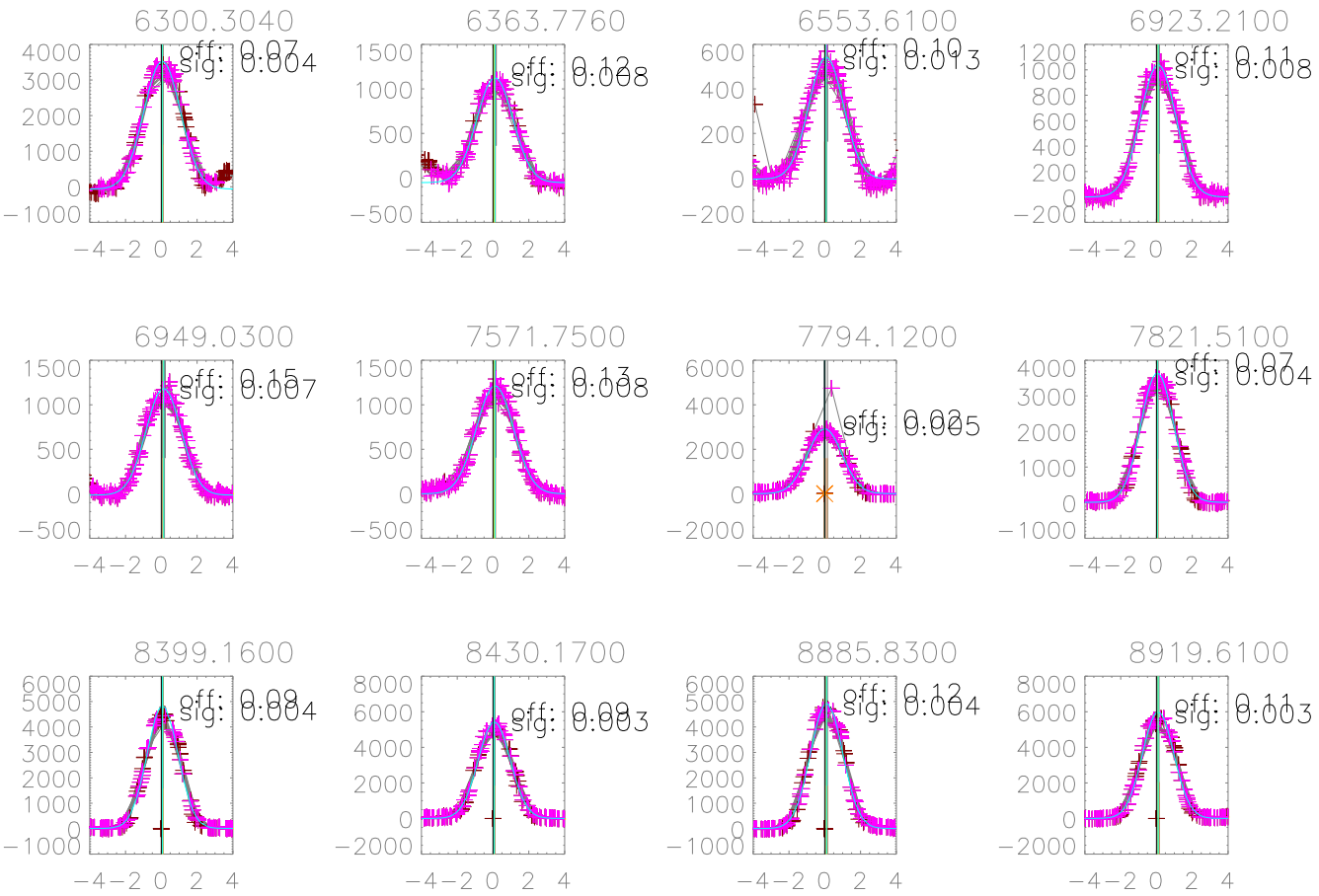

PLATE=2282 MJD=53683 Scattered Light before halo removal on sdR-r2-00034761.fi
50.9
36.4
21.8
7.3
Y [pix]
X [pix]
0
500
1000
1500
2000

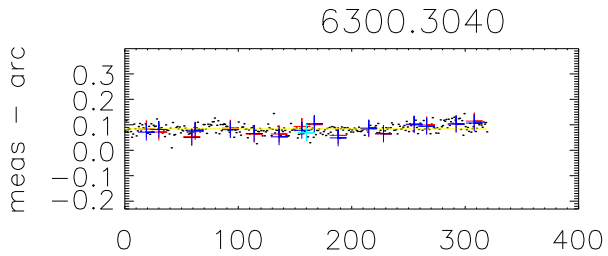

PLATE=2282 MJD=53683 Scattered Light before halo removal on sdR-r2-00034761.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.915
Max value = 51.332
Sat Feb 16 20:52:06 2008

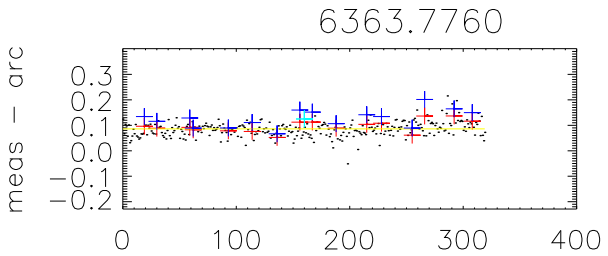

PLATE=2282 MJD=53683 Scattered Light on sdR-r2-00034761.fit
11.36
15.91
11.36
11.36
6.82
6.82
Y [pix]
X [pix]
0
500
1000
1500
2000

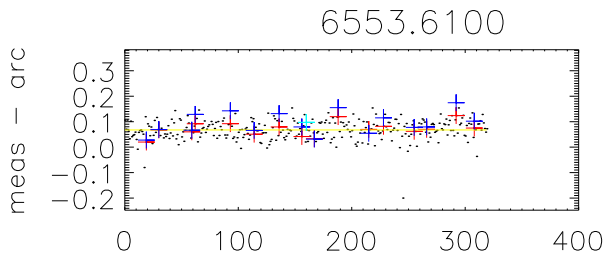

PLATE=2282 MJD=53683 Scattered Light on sdR-r2-00034761.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.544
Max value = 12.935
Sat Feb 16 20:55:01 2008

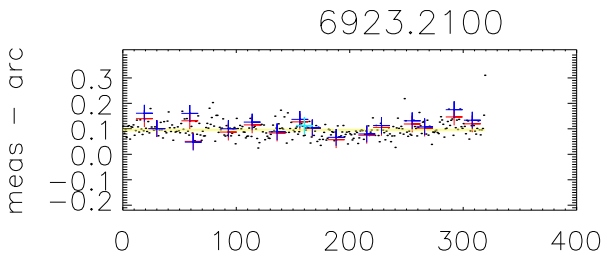

PLATE=2282 MJD=53683 Extraction chi^2 for sdR−r2−00034761.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

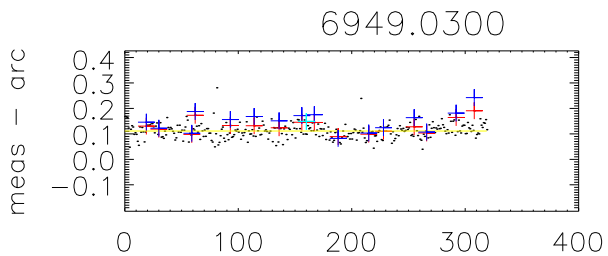

6300.3040
off: 0.07
sig: 0.004
6363.7760
off: 0.12
sig: 0.008
6553.6100
off: 0.10
sig: 0.013
6923.2100
off: 0.11
sig: 0.008
6949.0300
off: 0.15
sig: 0.007
7571.7500
off: 0.13
sig: 0.008
7794.1200
off: 0.02
sig: 0.005
7821.5100
off: 0.07
sig: 0.004
8399.1600
off: 0.08
sig: 0.004
8430.1700
off: 0.08
sig: 0.003
8885.8300
off: 0.12
sig: 0.004
8919.6100
off: 0.11
sig: 0.003

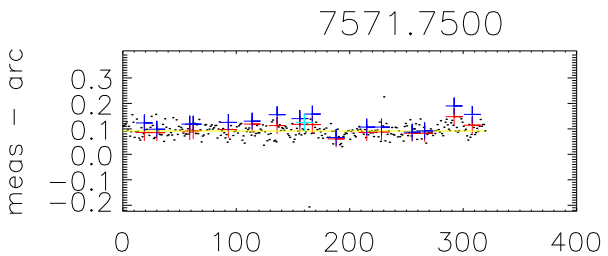

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

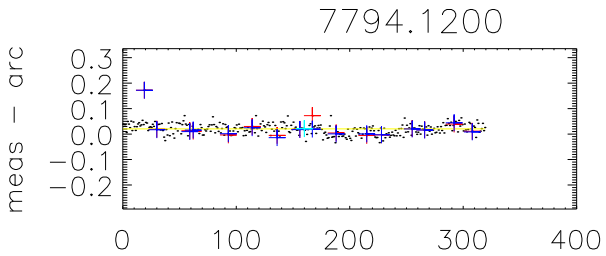

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

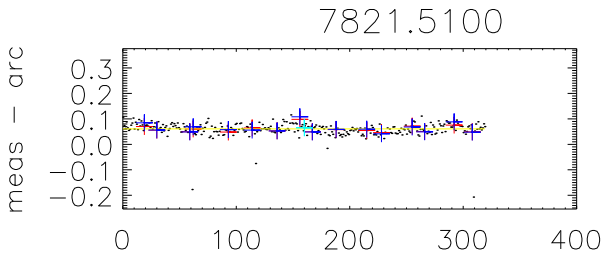

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

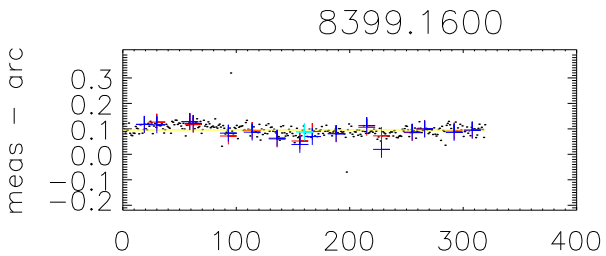

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

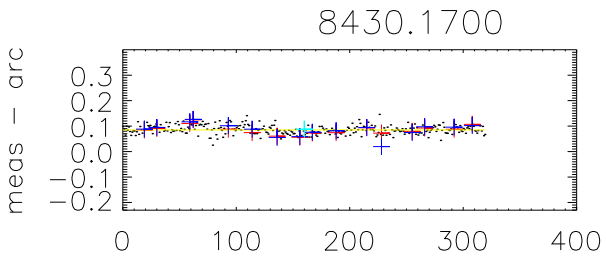

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

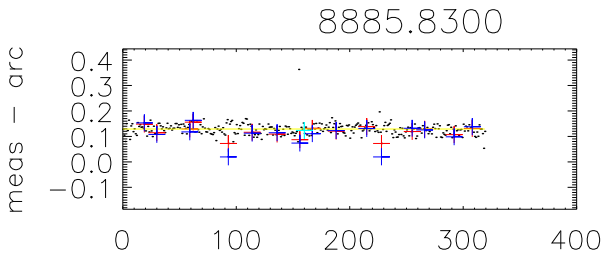

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

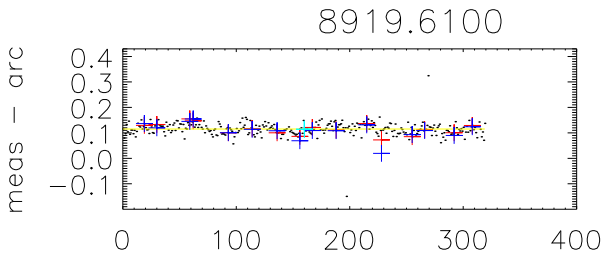

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

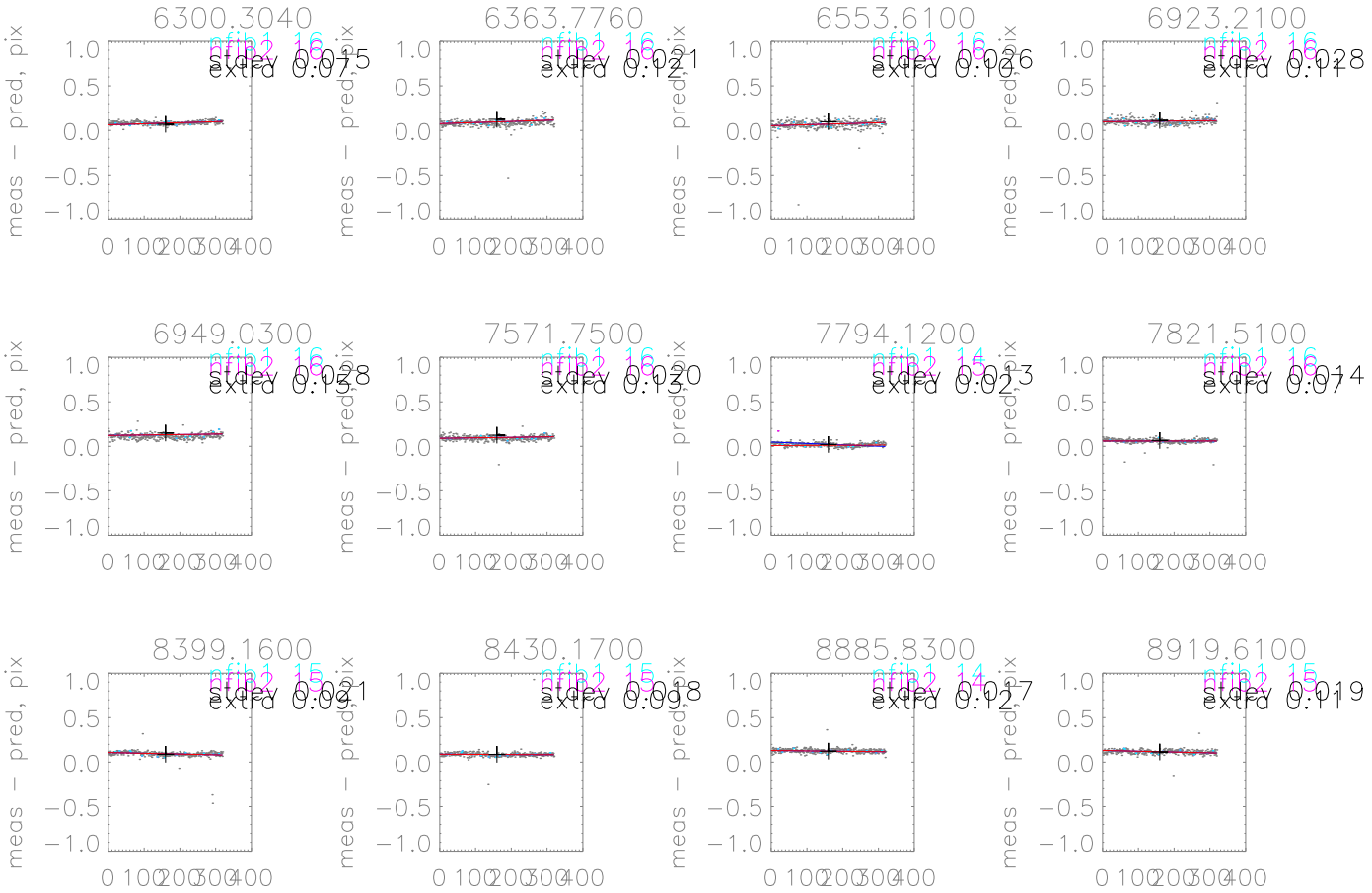

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

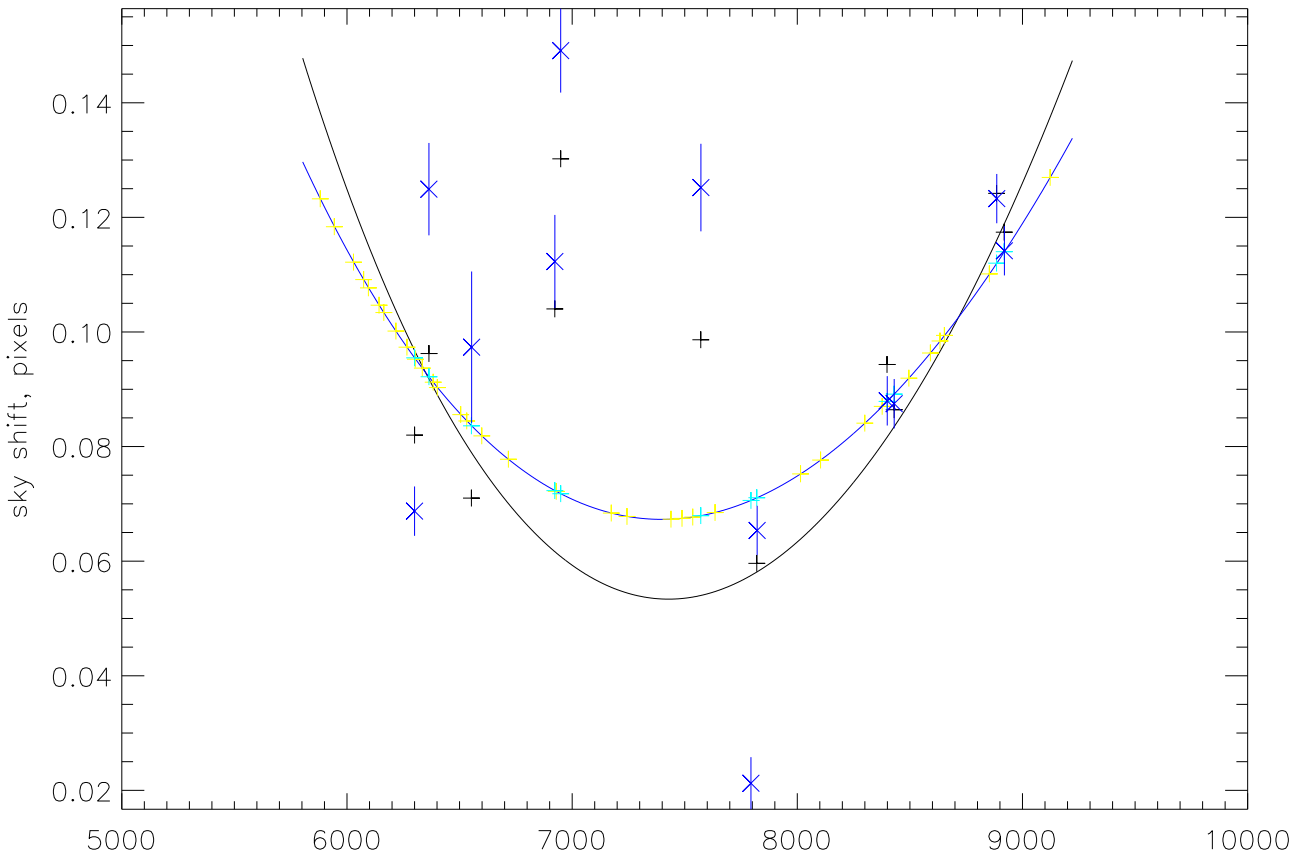

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

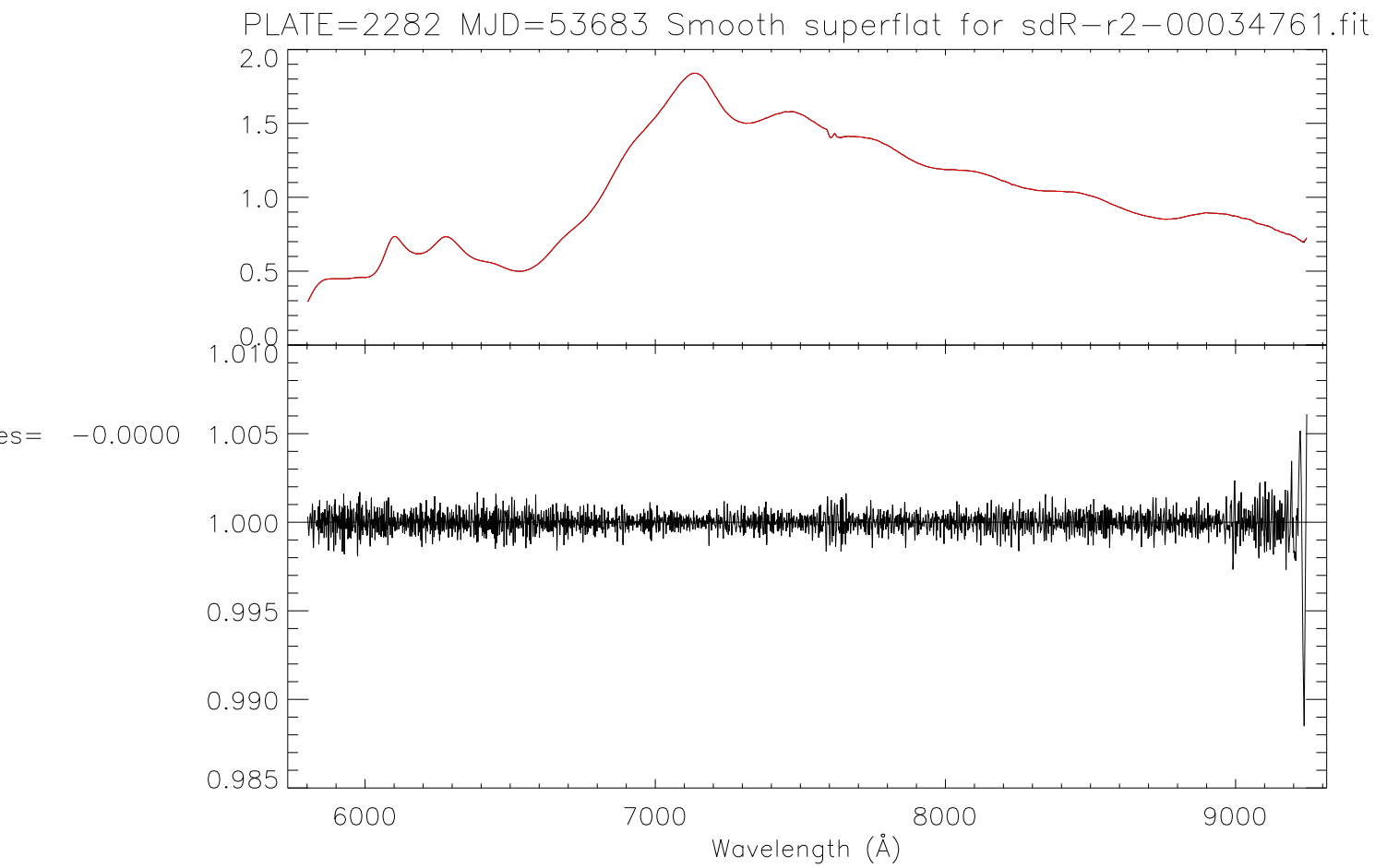

8430.1700
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

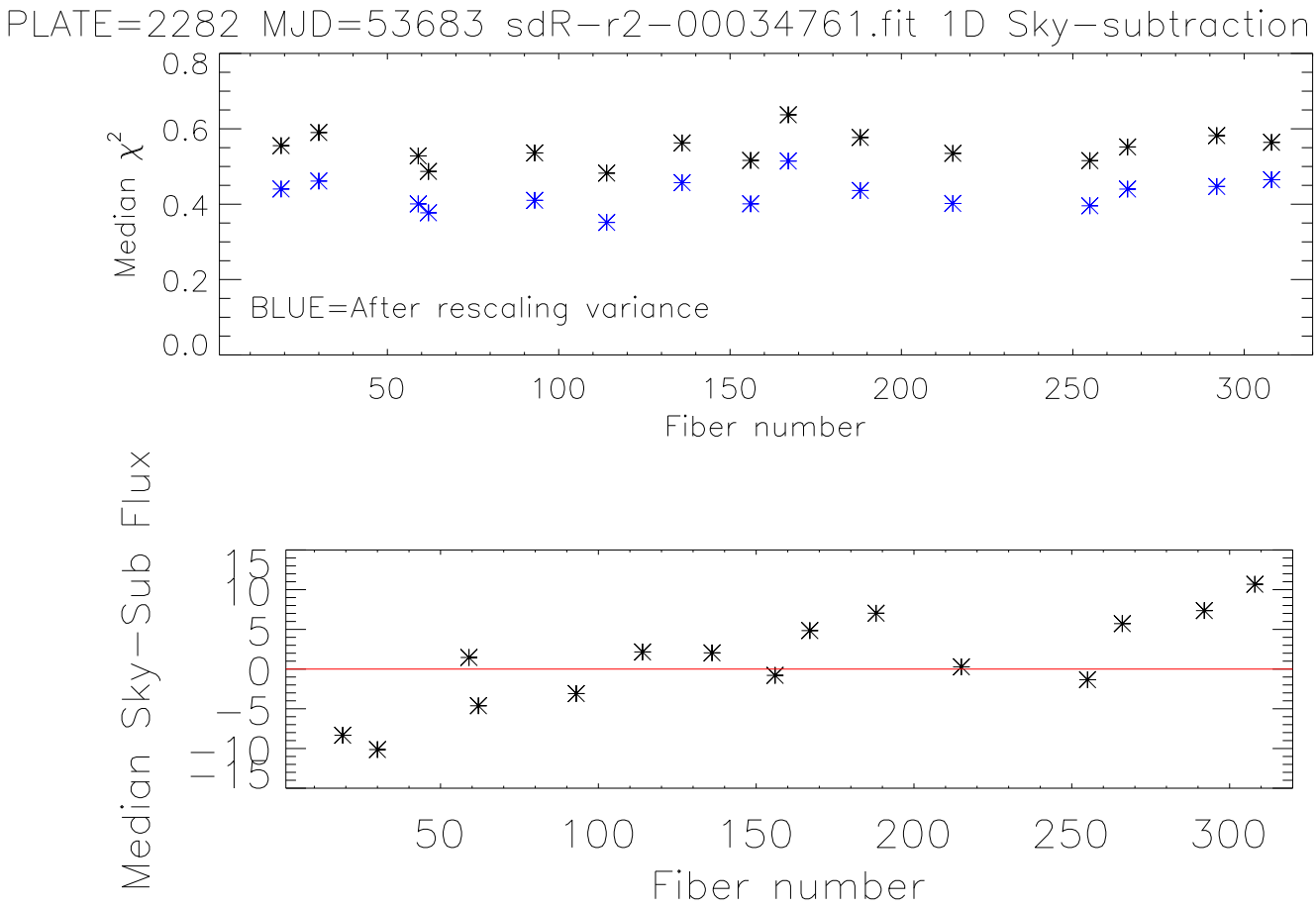

8885.8300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

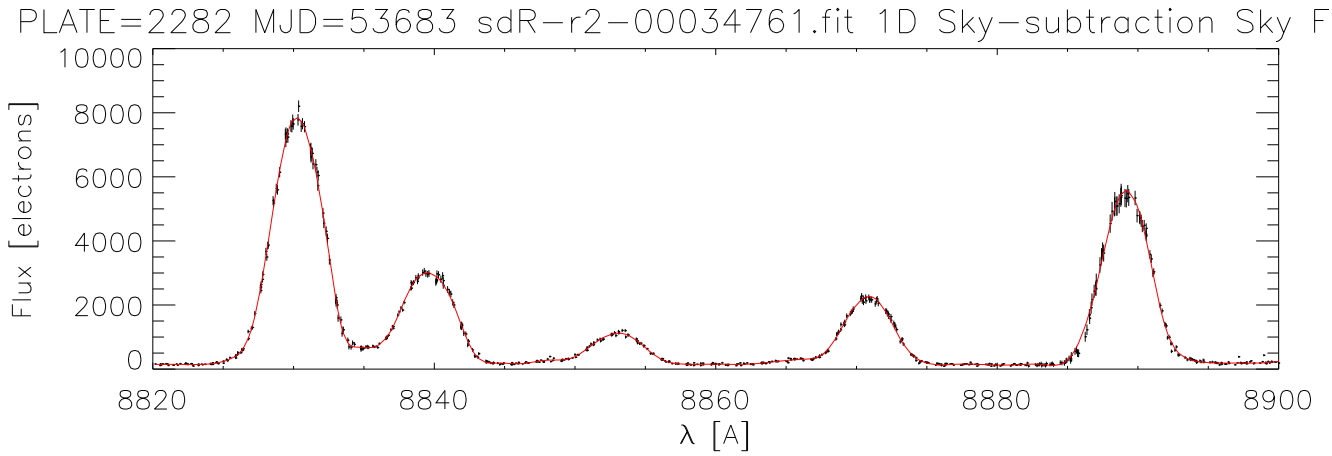

8919.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

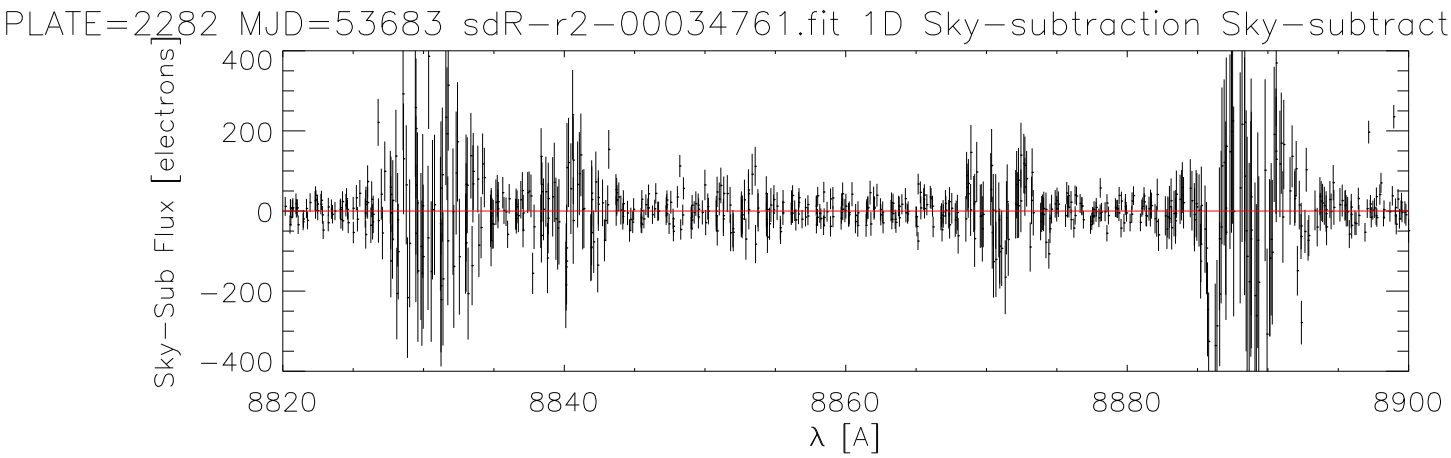

6300.3040
mfhi1 16
mfhi2 16
stdev 0.015
extra 0.07
6363.7760
mfhi1 16
mfhi2 16
stdev 0.021
extra 0.12
6553.6100
mfhi1 16
mfhi2 16
stdev 0.026
extra 0.16
6923.2100
mfhi1 16
mfhi2 16
stdev 0.028
extra 0.11
6949.0300
mfhi1 16
mfhi2 16
stdev 0.028
extra 0.15
7571.7500
mfhi1 16
mfhi2 16
stdev 0.020
extra 0.13
7794.1200
mfhi1 14
mfhi2 15
stdev 0.023
extra 0.02
7821.5100
mfhi1 16
mfhi2 16
stdev 0.014
extra 0.07
8399.1600
mfhi1 15
mfhi2 15
stdev 0.021
extra 0.09
8430.1700
mfhi1 15
mfhi2 15
stdev 0.018
extra 0.09
8885.8300
mfhi1 14
mfhi2 14
stdev 0.017
extra 0.12
8919.6100
mfhi1 15
mfhi2 15
stdev 0.019
extra 0.11
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

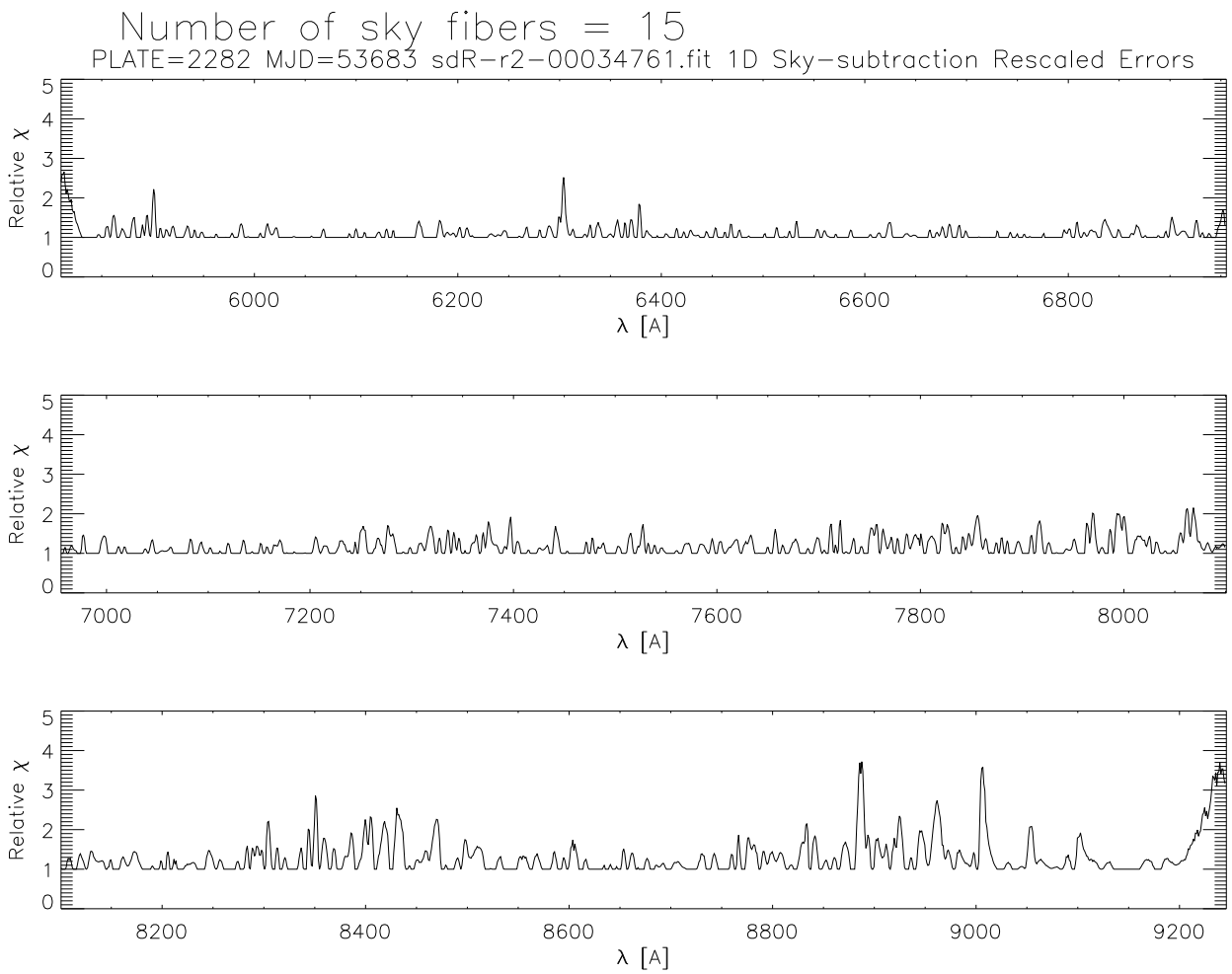

sky shift, pixels
0.14
0.12
0.10
0.08
0.06
0.04
0.02
5000
6000
7000
8000
9000
10000

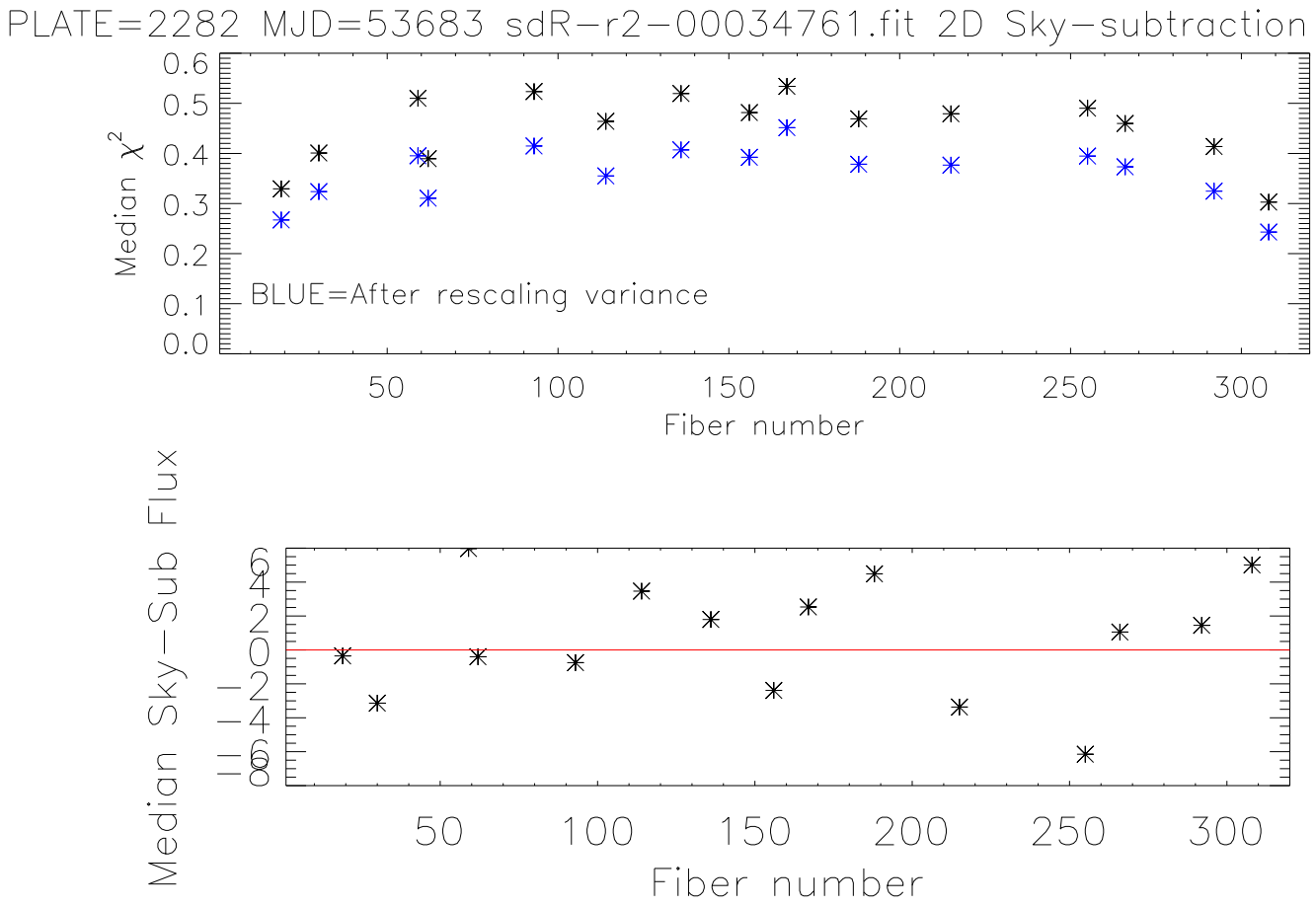

PLATE=2282 MJD=53683 Smooth superflat for sdR-r2-00034761.fit
2.0
1.5
1.0
0.5
0.0
es= -0.0000
1.010
1.005
1.000
0.995
0.990
0.985
6000
7000
8000
9000
Wavelength (Å)

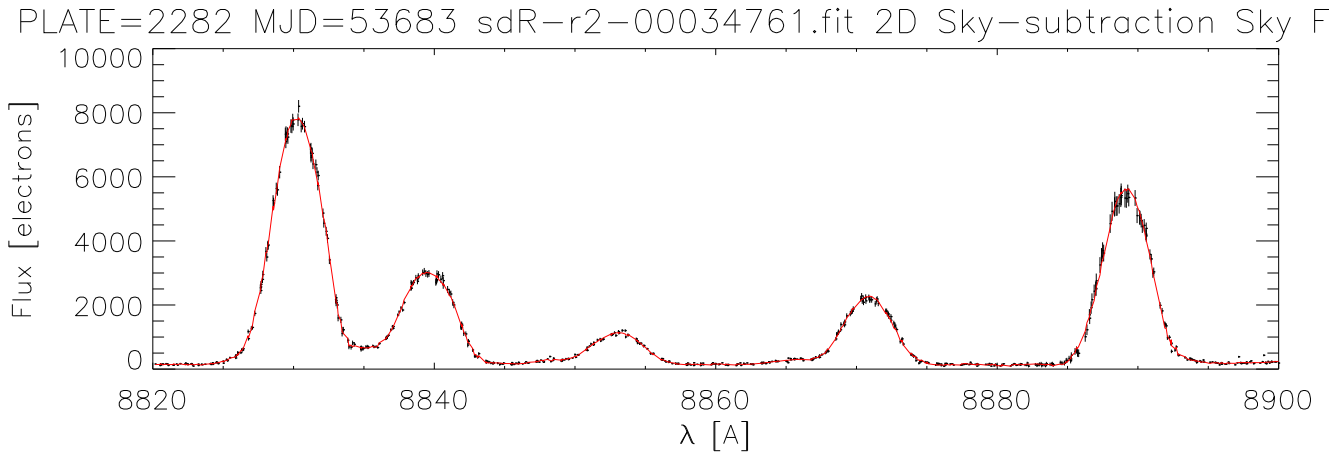

PLATE=2282 MJD=53683 sdR-r2-00034761.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
15
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

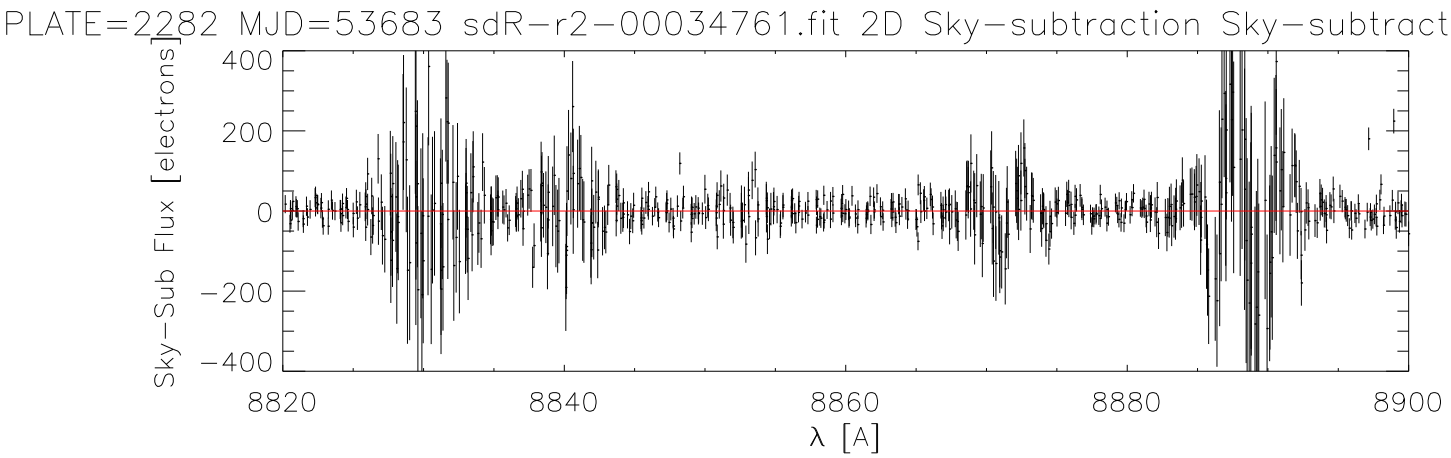

PLATE=2282 MJD=53683 sdR-r2-00034761.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

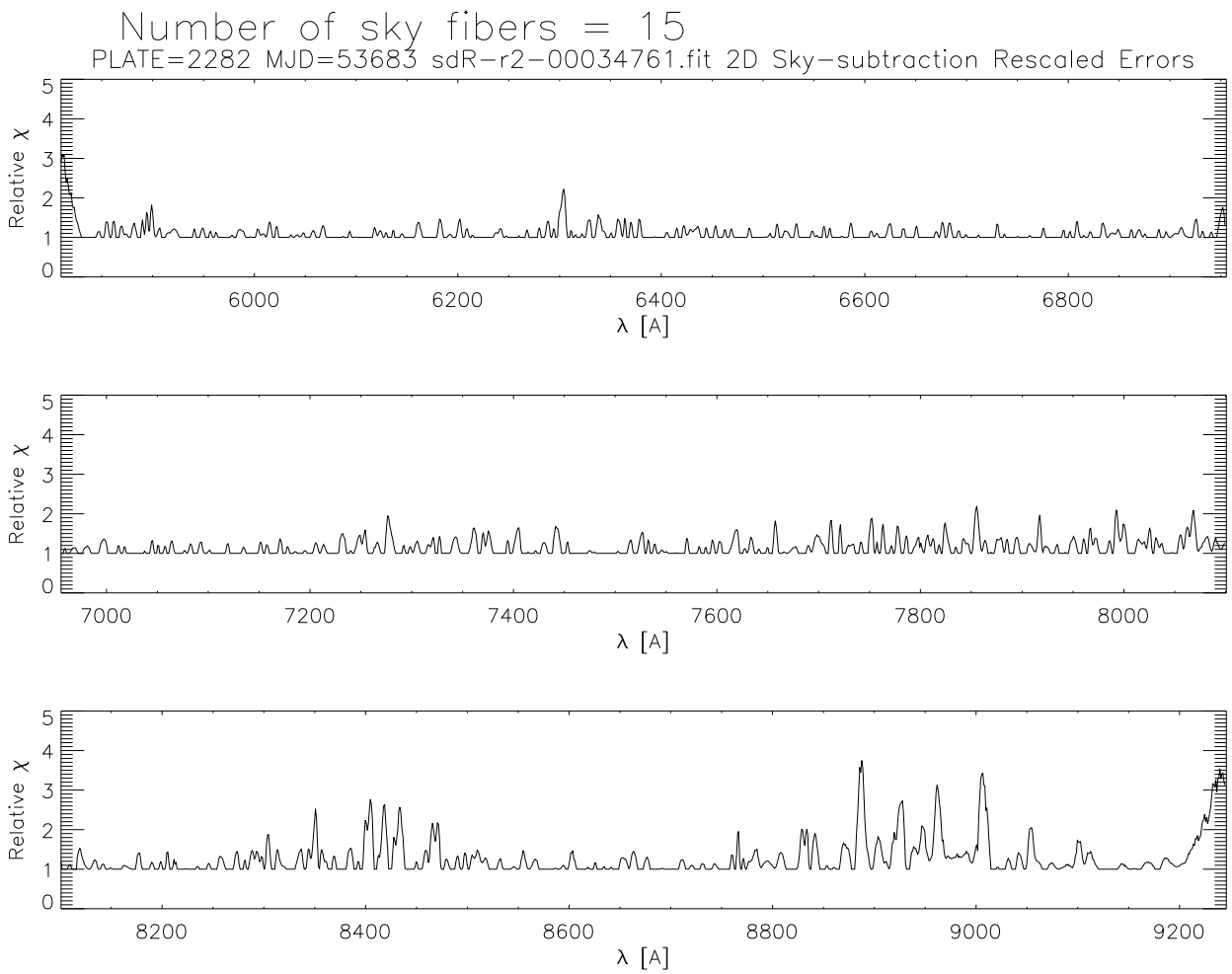

PLATE=2282 MJD=53683 sdR-r2-00034761.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

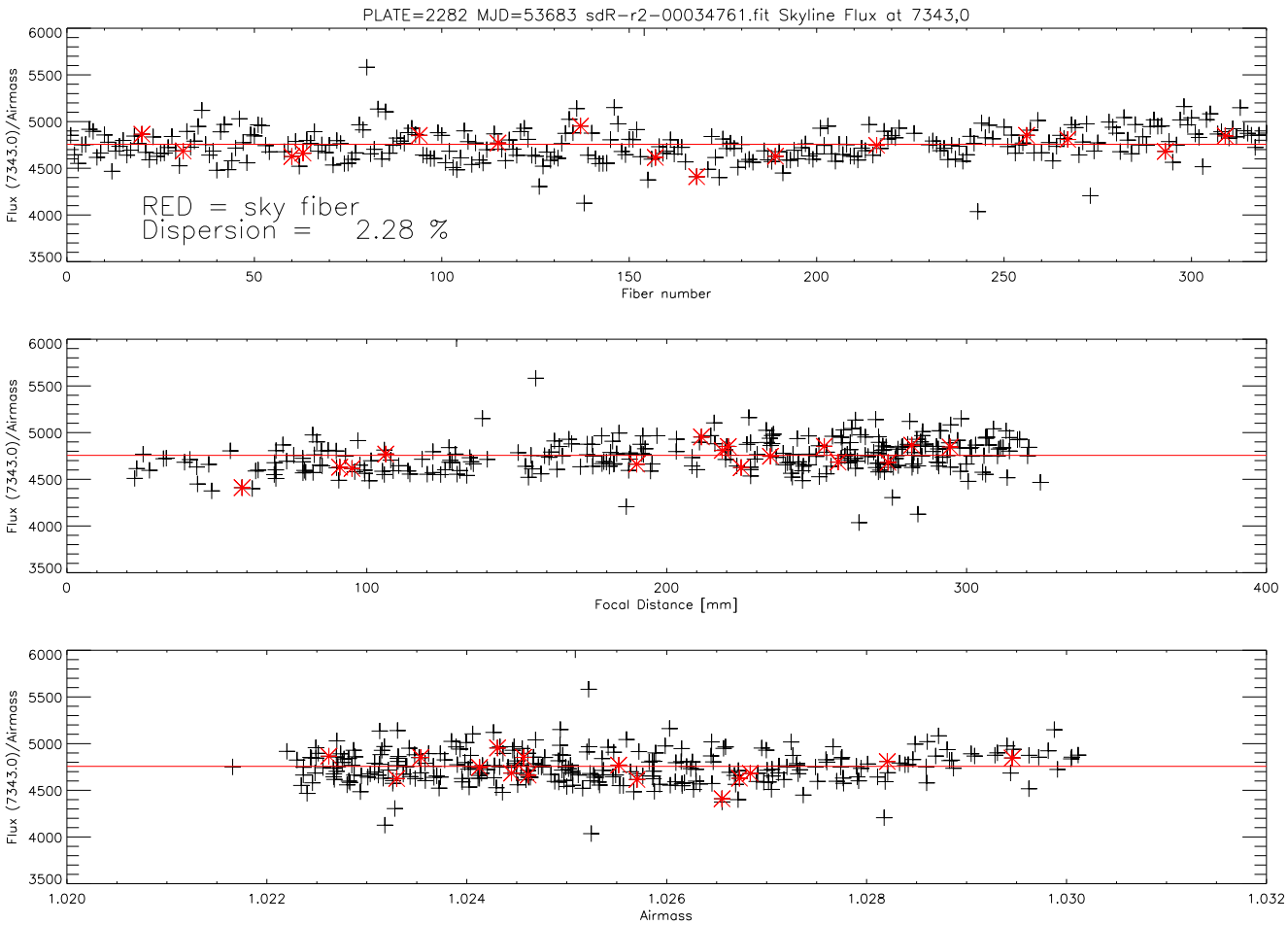

Number of sky fibers = 15
PLATE=2282 MJD=53683 sdR-r2-00034761.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

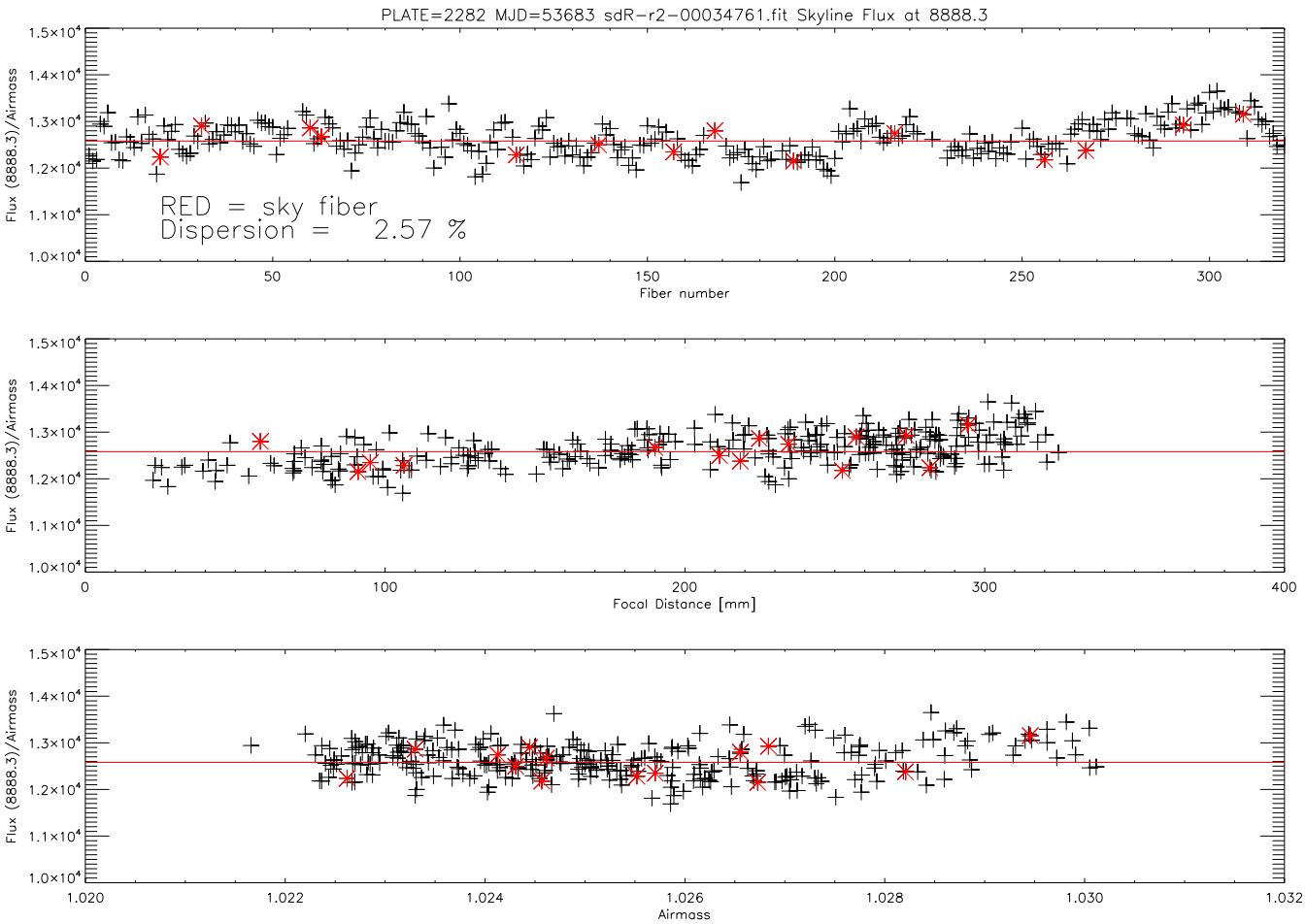

PLATE=2282 MJD=53683 sdR-r2-00034761.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number


PLATE=2282 MJD=53683 sdR-r2-00034761.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]


PLATE=2282 MJD=53683 sdR-r2-00034761.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]


Number of sky fibers = 15
PLATE=2282 MJD=53683 sdR-r2-00034761.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=2282 MJD=53683 sdR-r2-00034761.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.28 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass


PLATE=2282 MJD=53683 sdR-r2-00034761.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.57 %
Fiber number
Focal Distance [mm]
Airmass