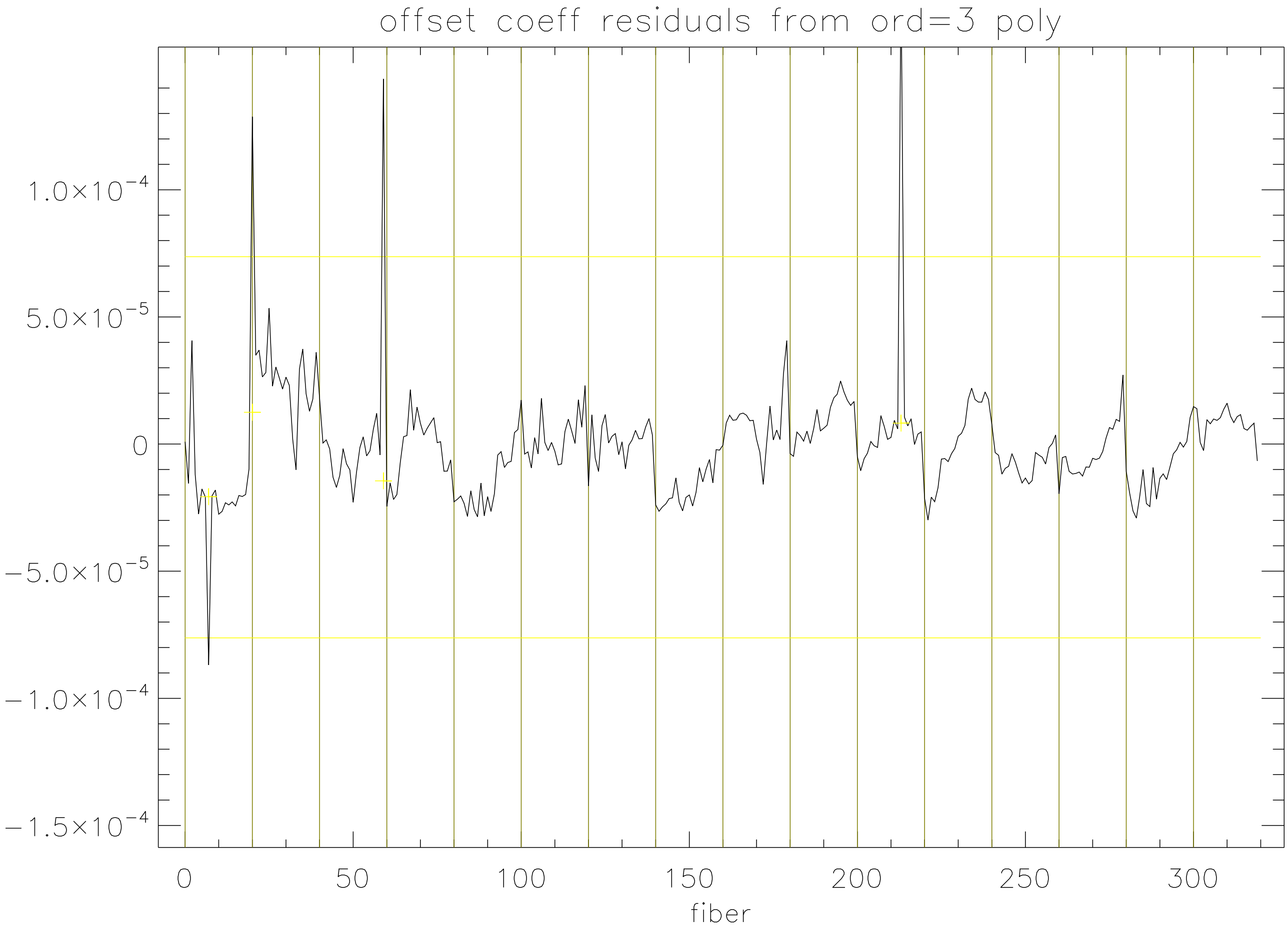
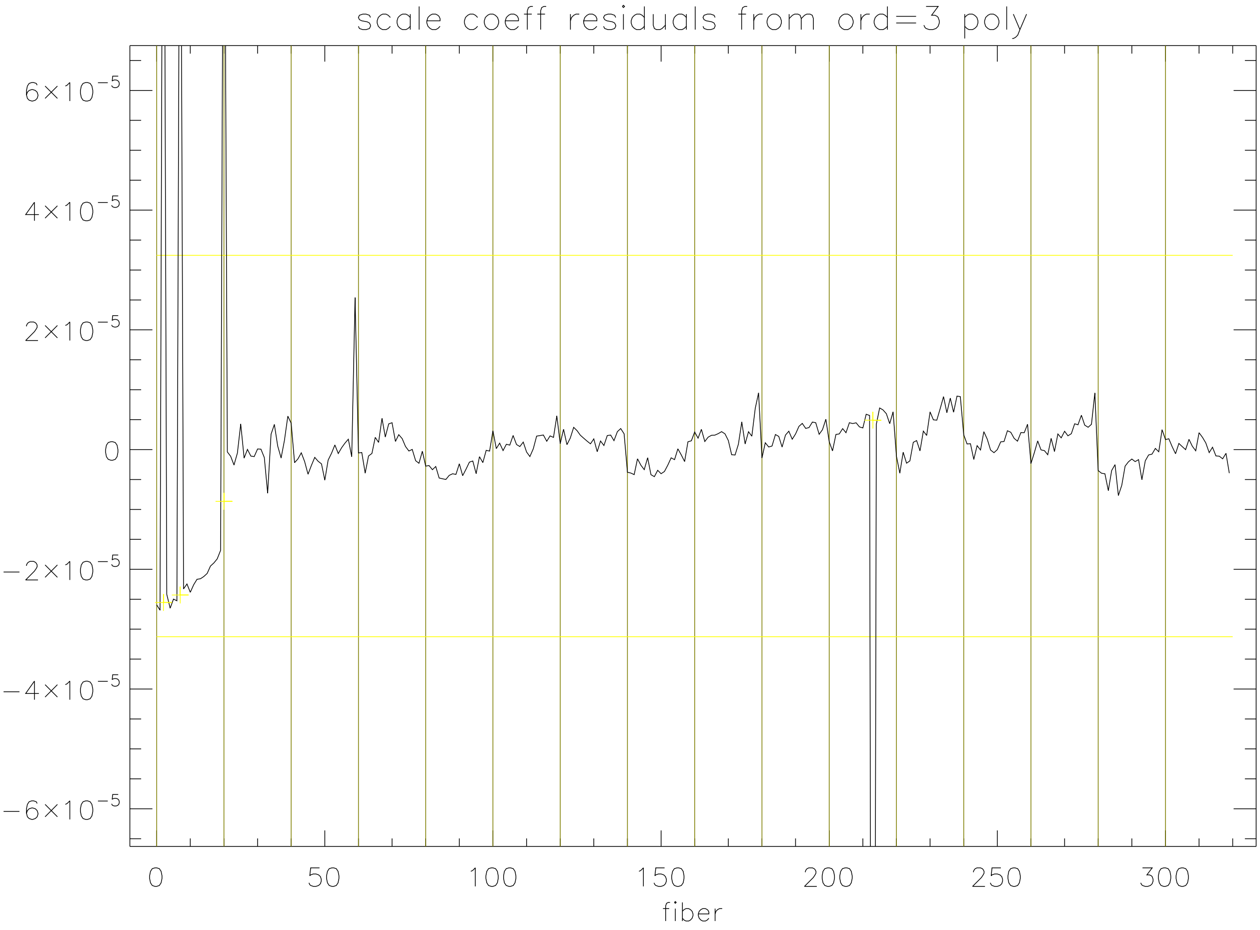
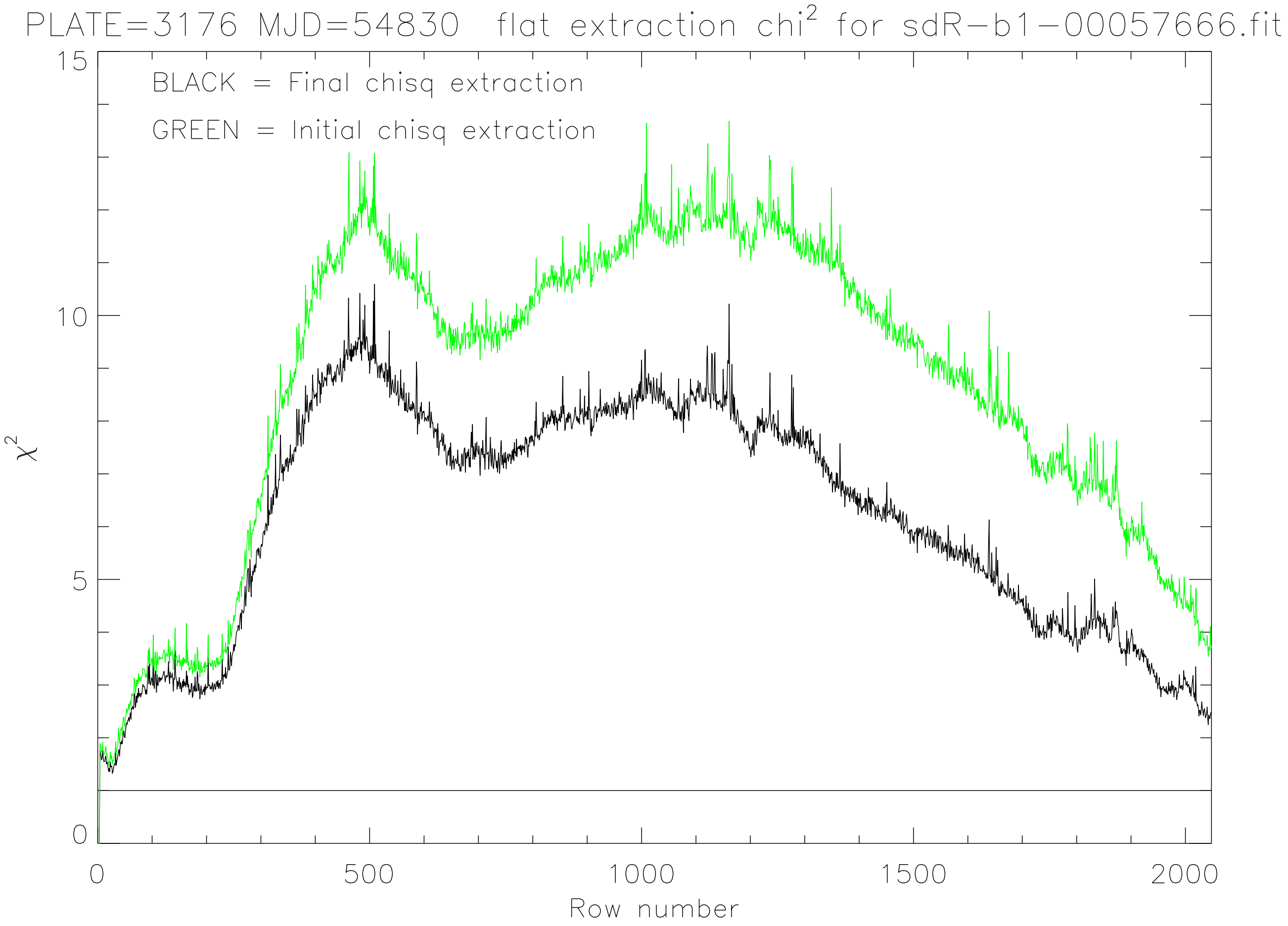
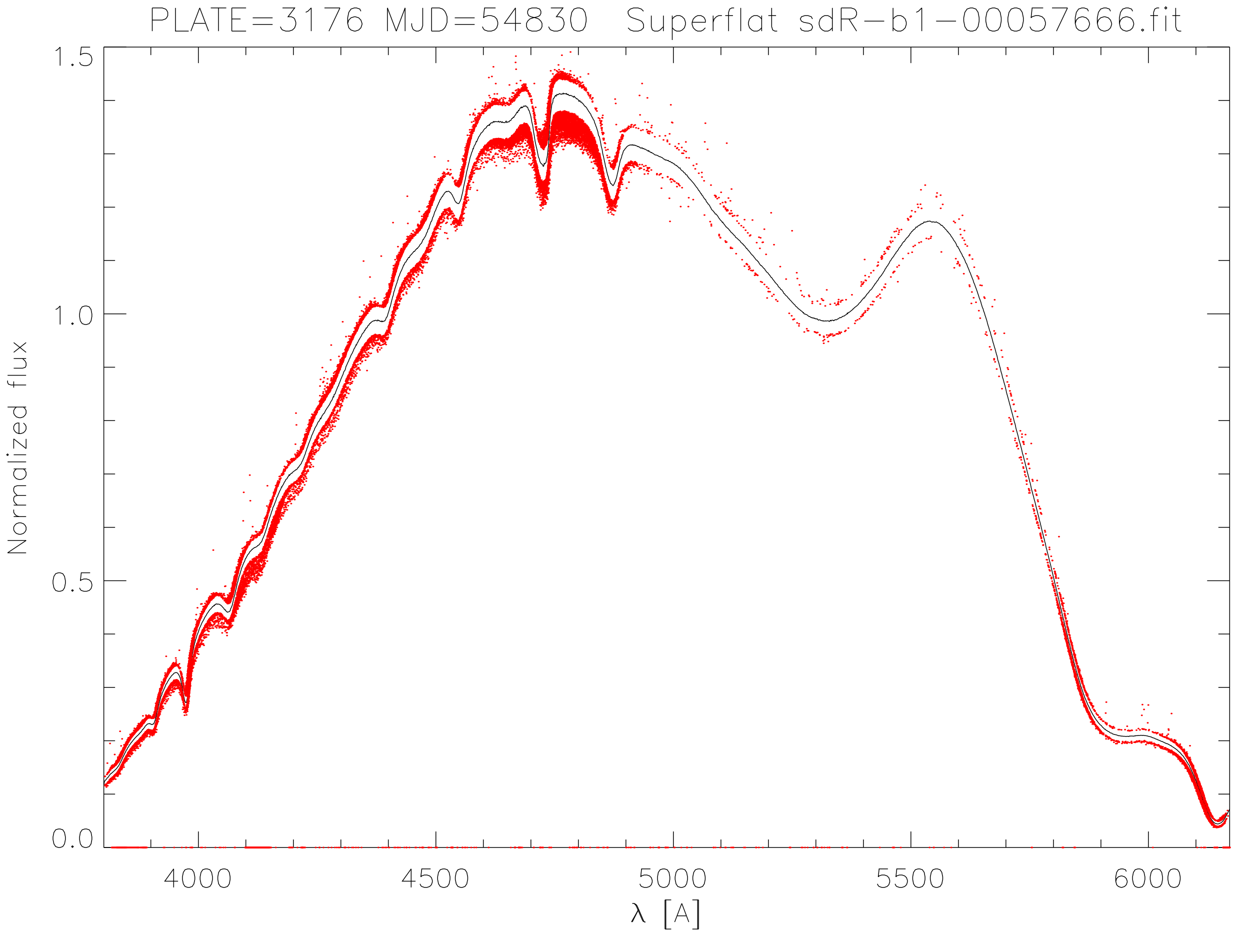
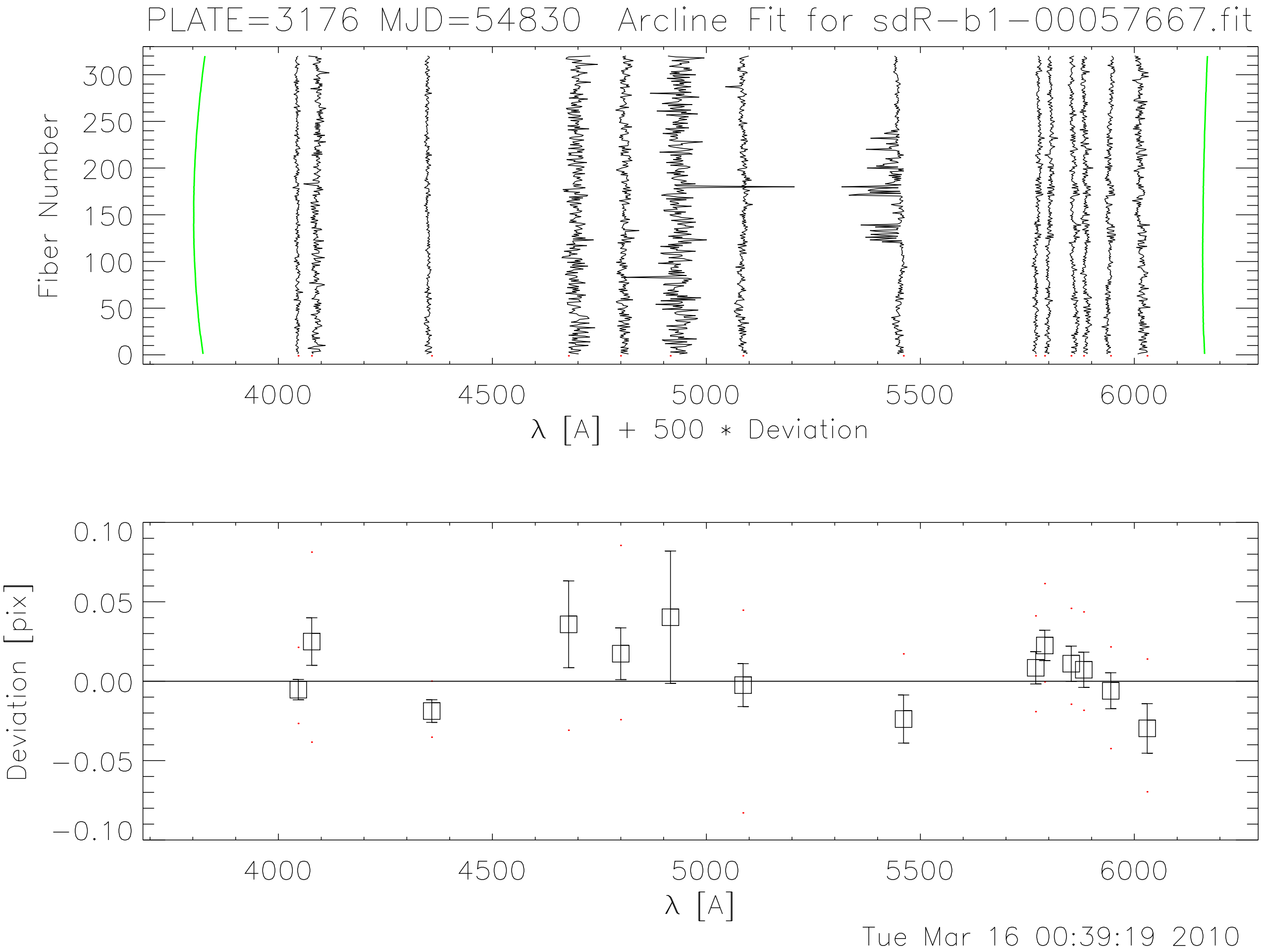
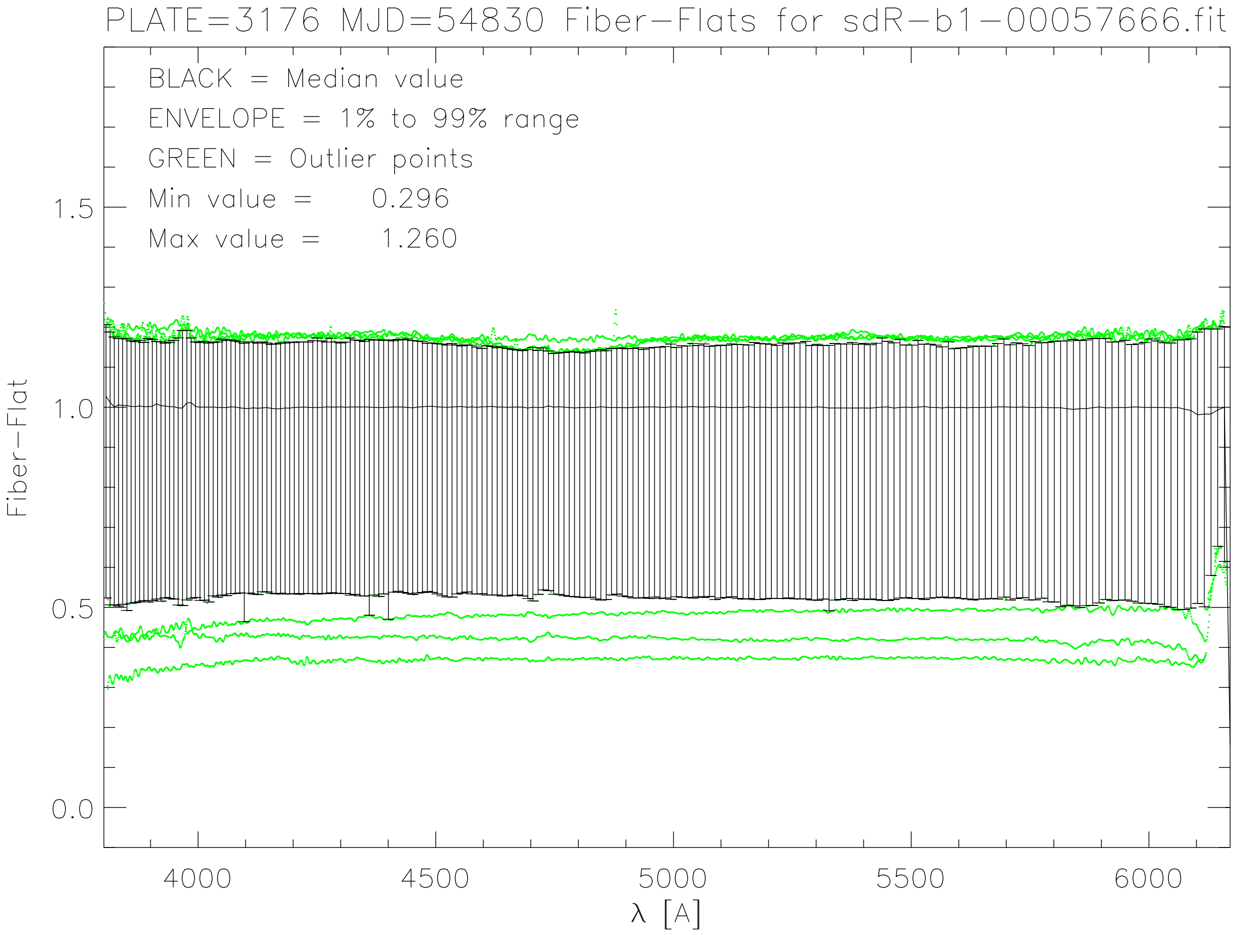

offset coeff residuals from ord=3 poly
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber


scale coeff residuals from ord=3 poly
6×10⁻⁵
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
−6×10⁻⁵
0
50
100
150
200
250
300
fiber


PLATE=3176 MJD=54830 flat extraction chi^2 for sdR-b1-00057666.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
15
10
5
0
0
500
1000
1500
2000
Row number

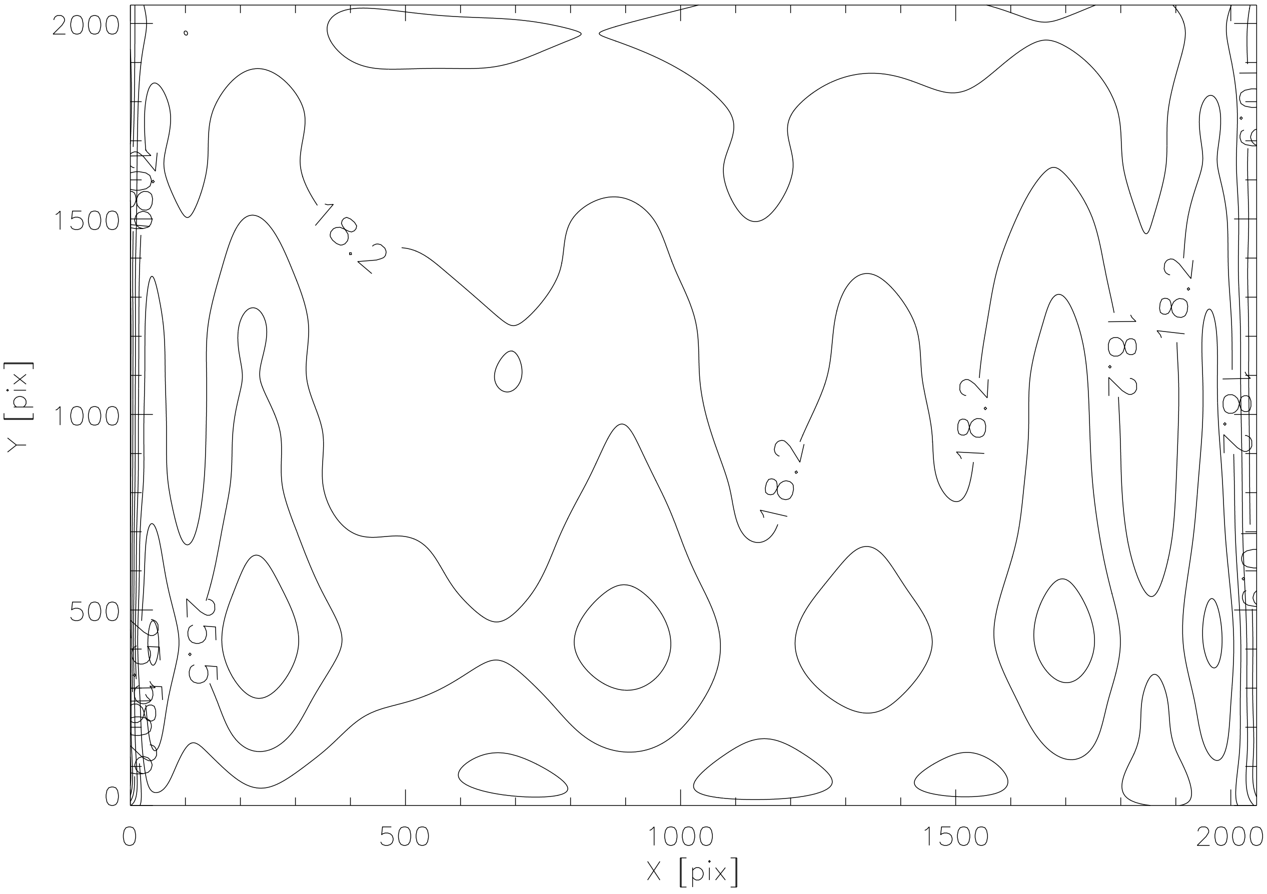

PLATE=3176 MJD=54830 Superflat sdR-b1-00057666.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

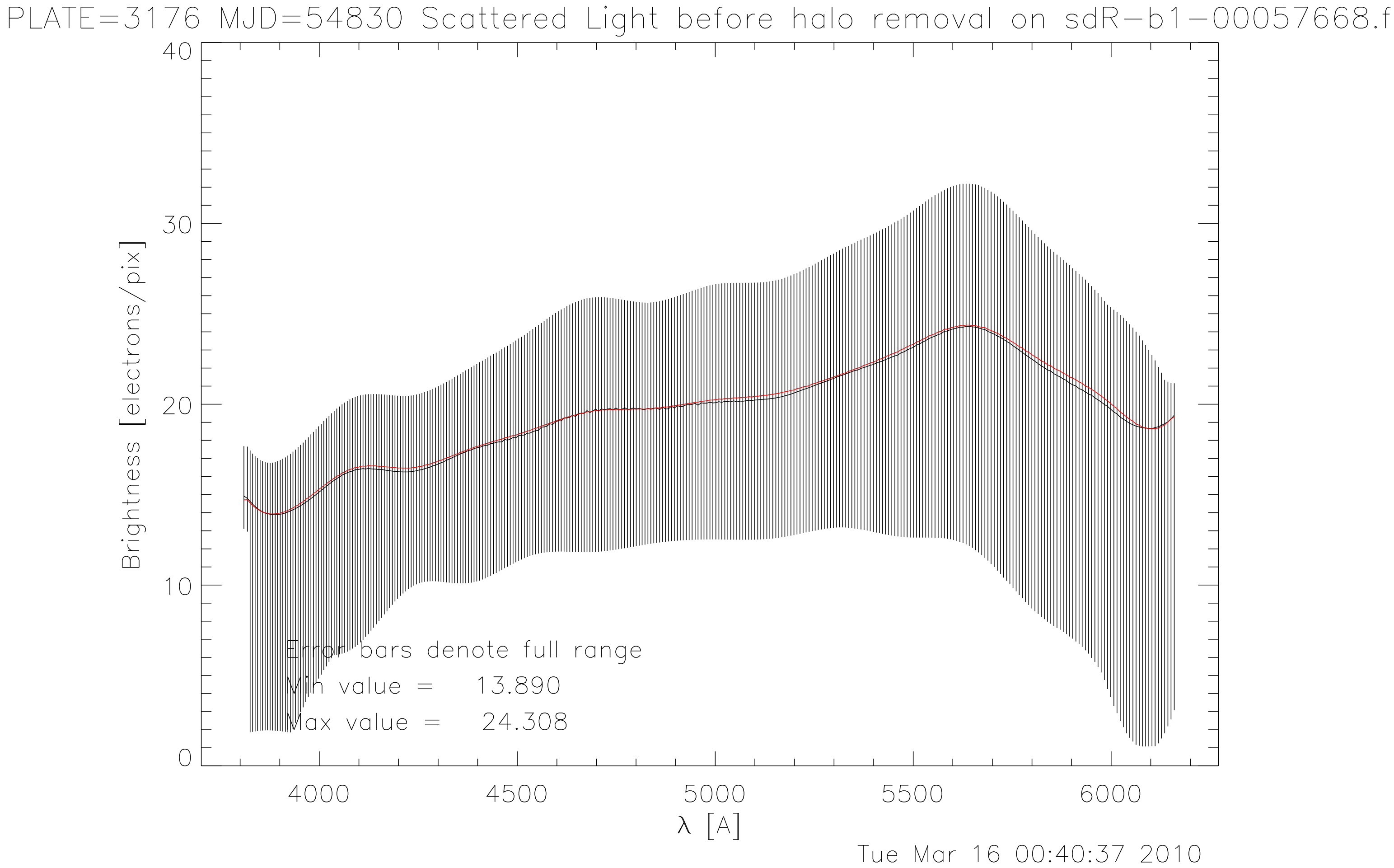

PLATE=3176 MJD=54830 Arcline Fit for sdR-b1-00057667.fit
Fiber Number
0
50
100
150
200
250
300
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Tue Mar 16 00:39:19 2010

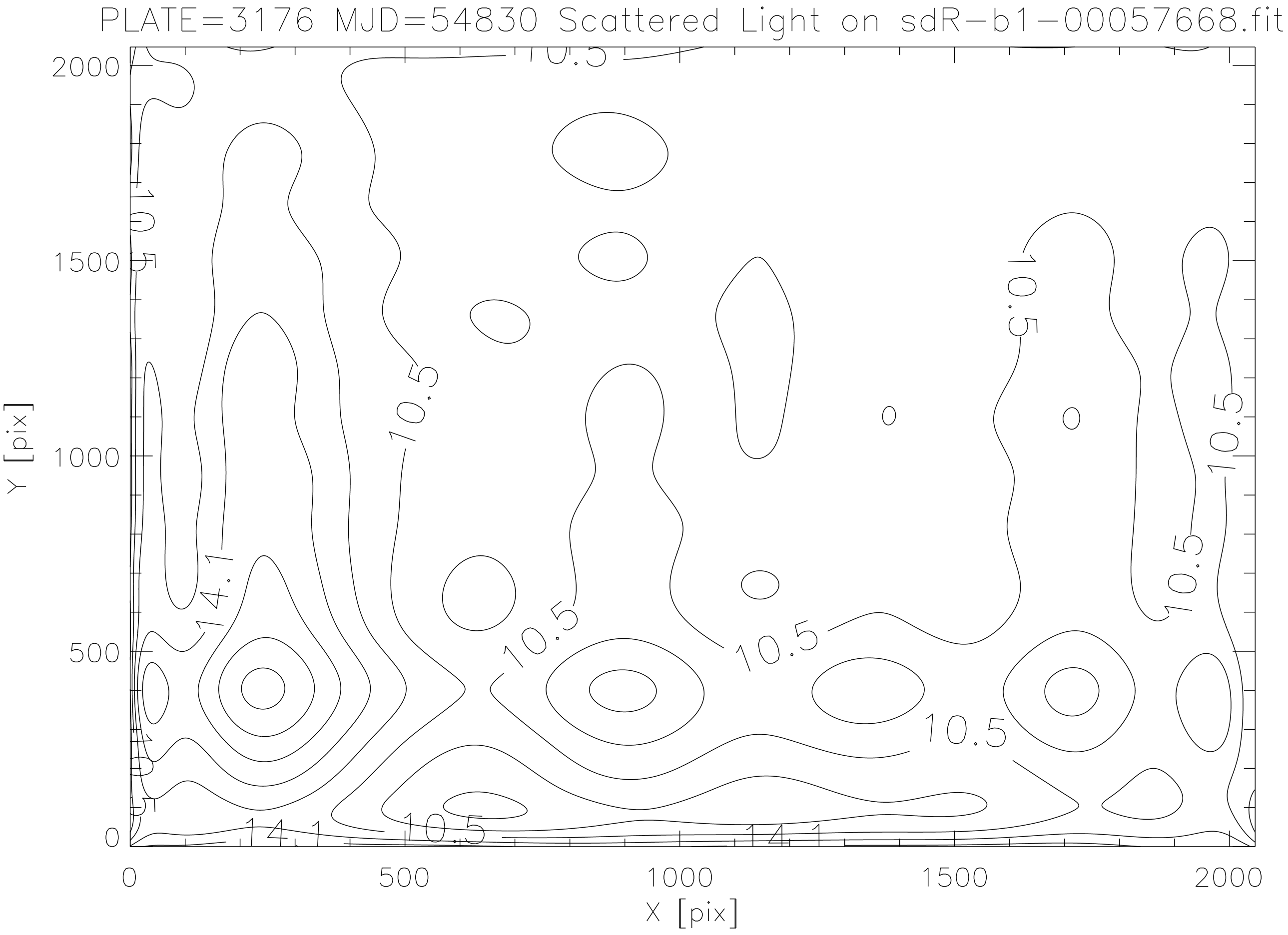


Tue Mar 16 00:39:29 2010

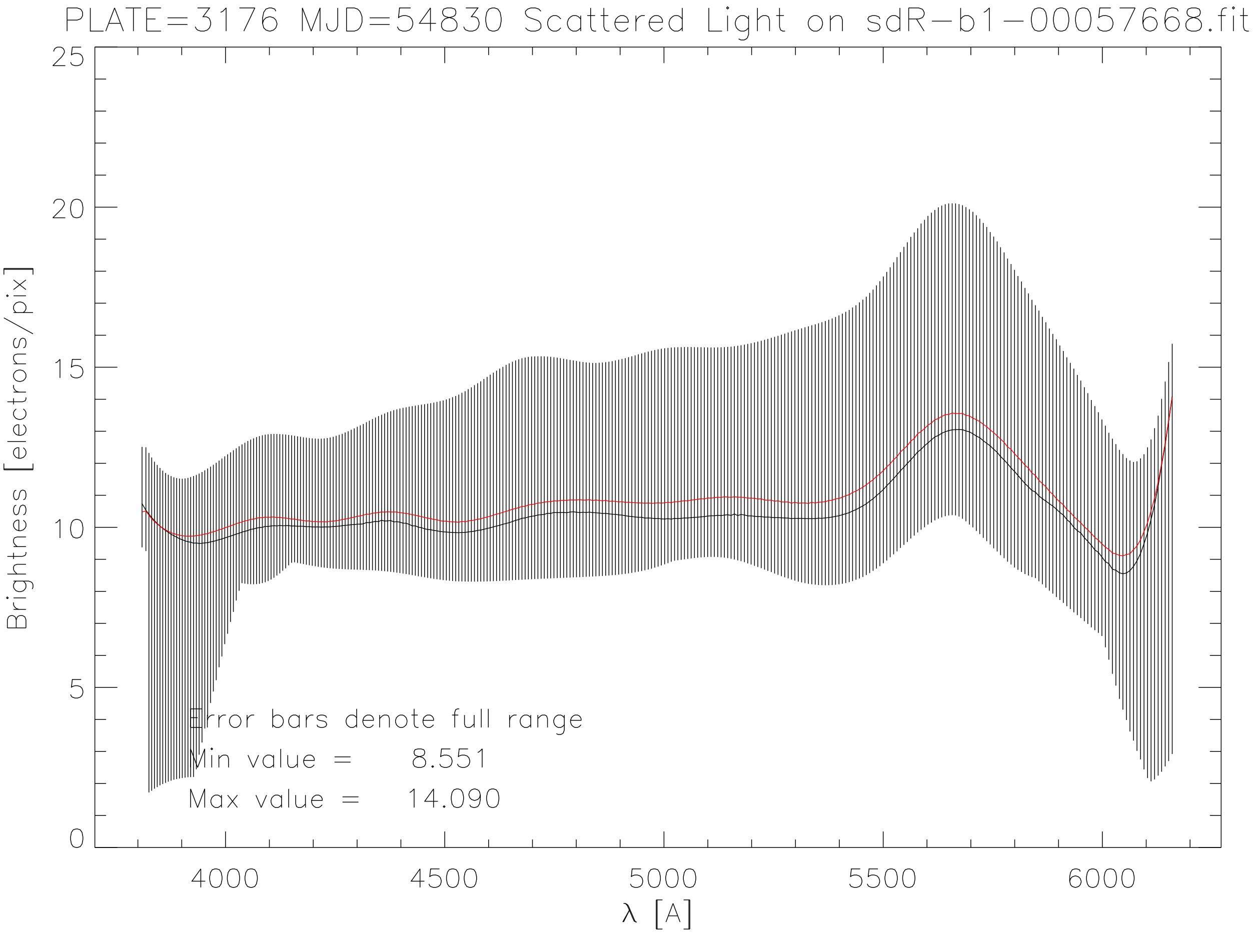
PLATE=3176 MJD=54830 Scattered Light before halo removal on sdR-b1-00057668.f



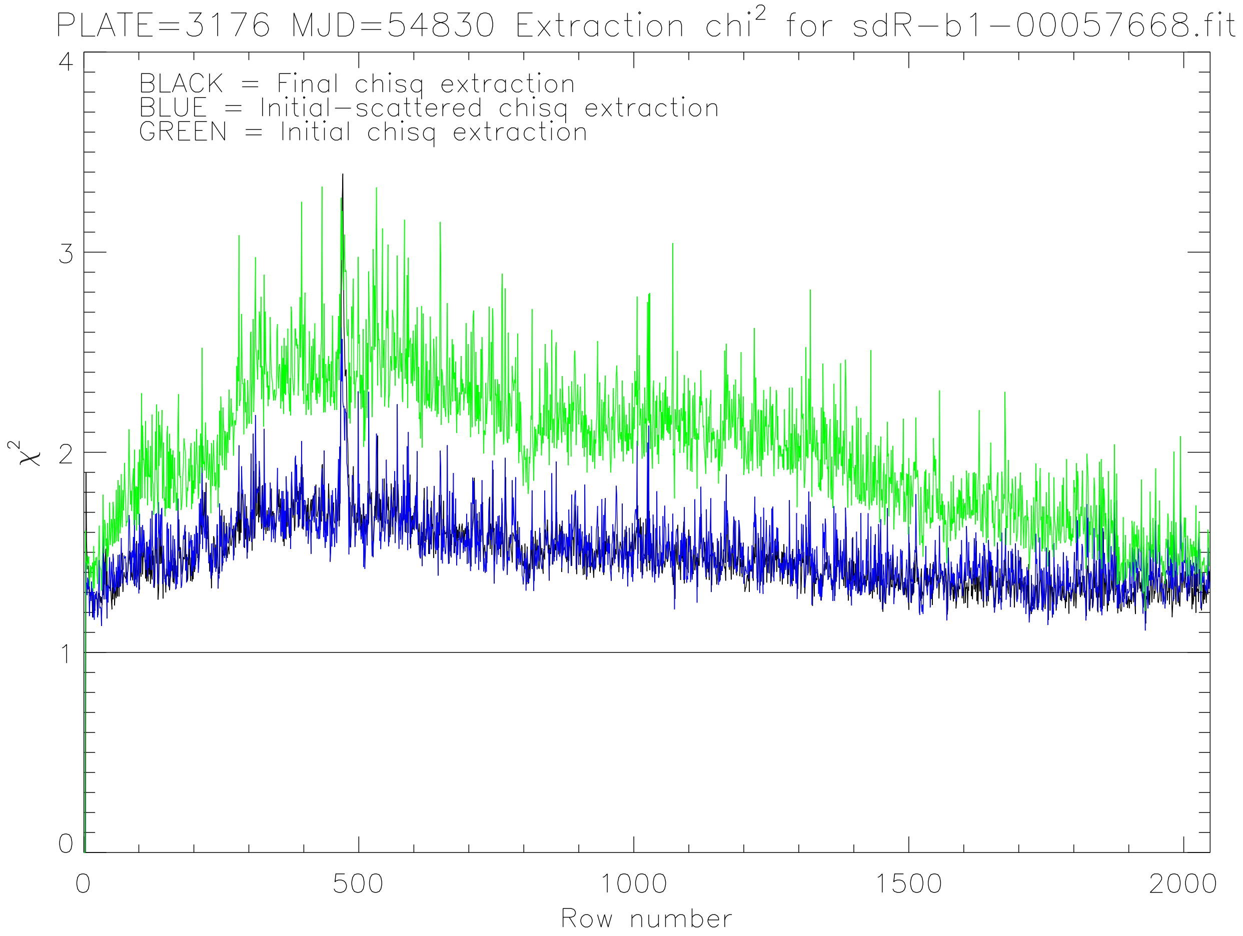

PLATE=3176 MJD=54830 Scattered Light before halo removal on sdR-b1-00057668.f
Brightness [electrons/pix]
40
30
20
10
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 13.890
Max value = 24.308
Tue Mar 16 00:40:37 2010

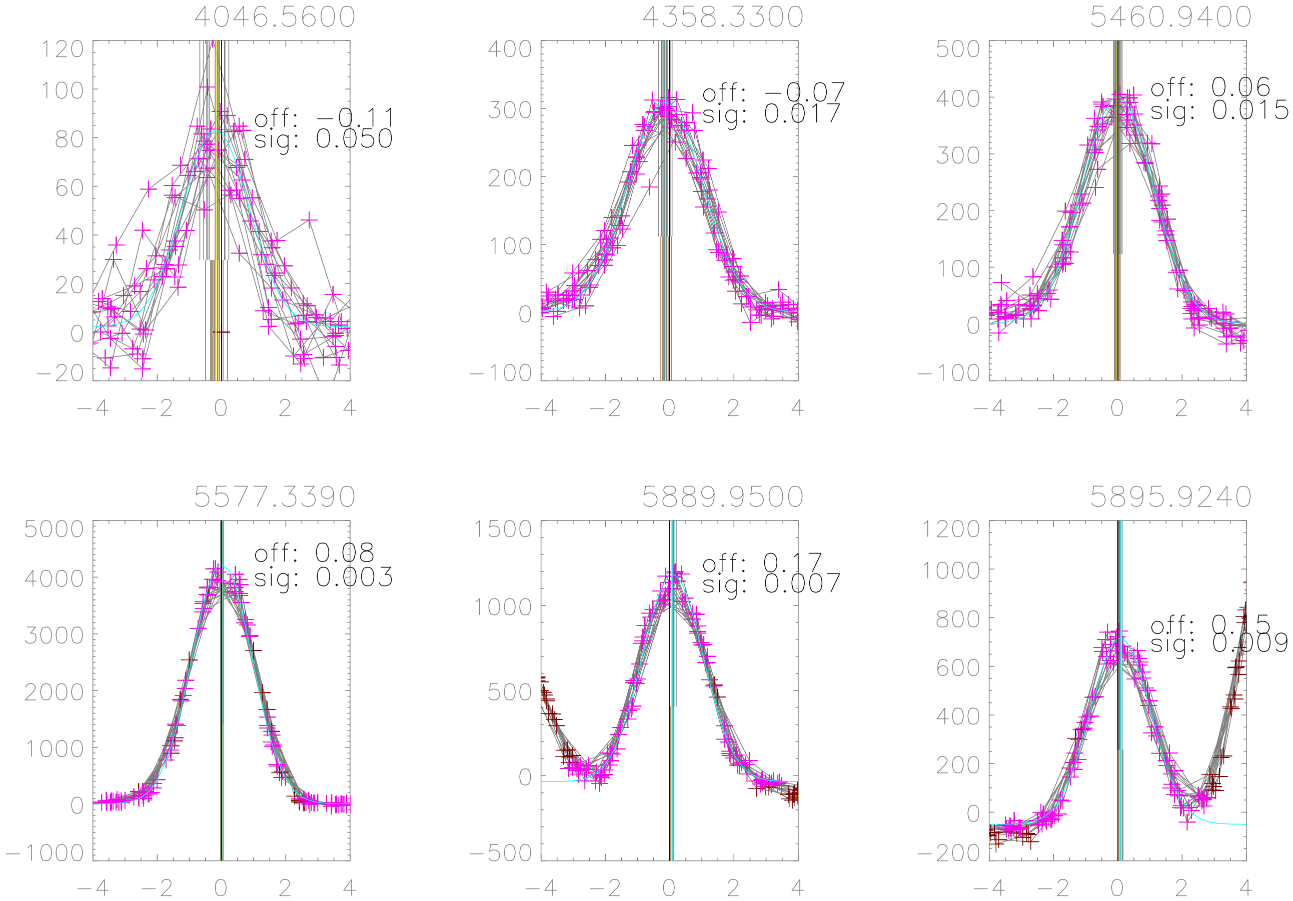


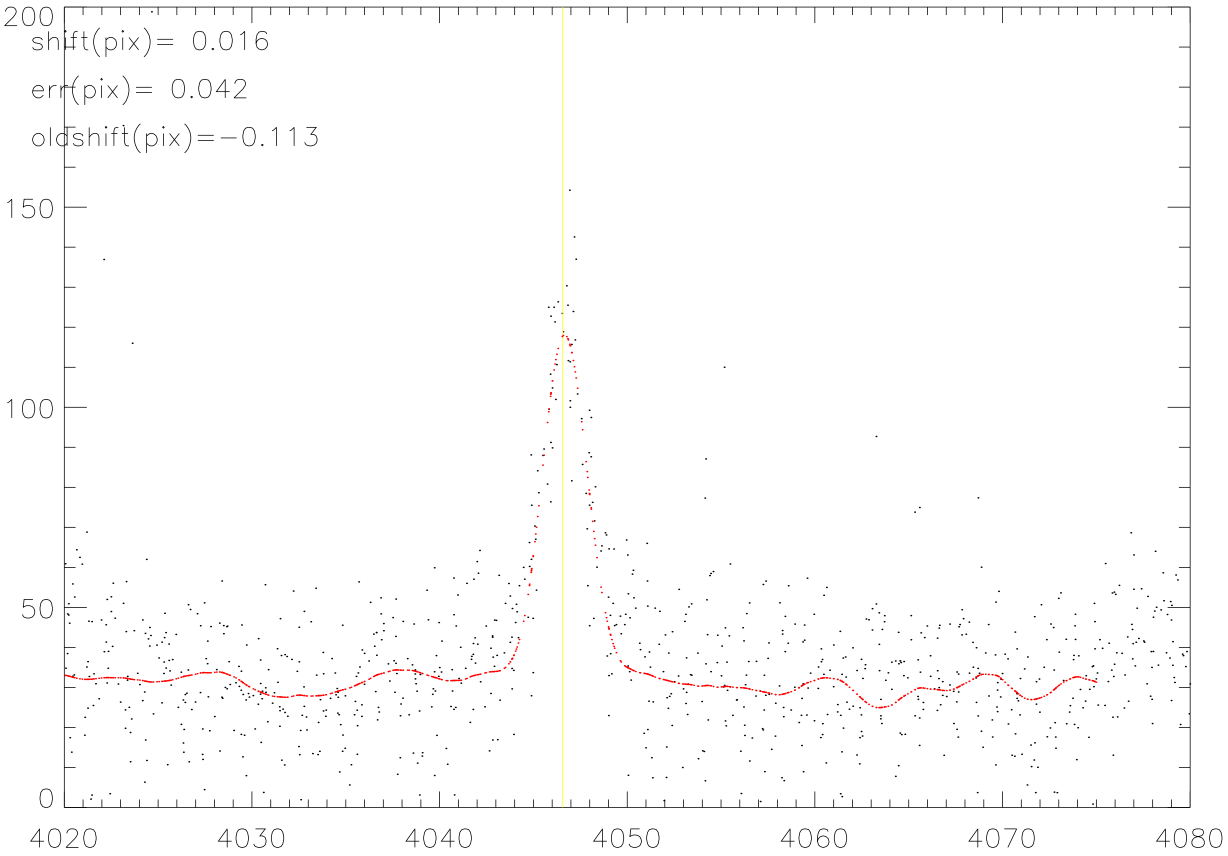
PLATE=3176 MJD=54830 Scattered Light on sdR-b1-00057668.fit

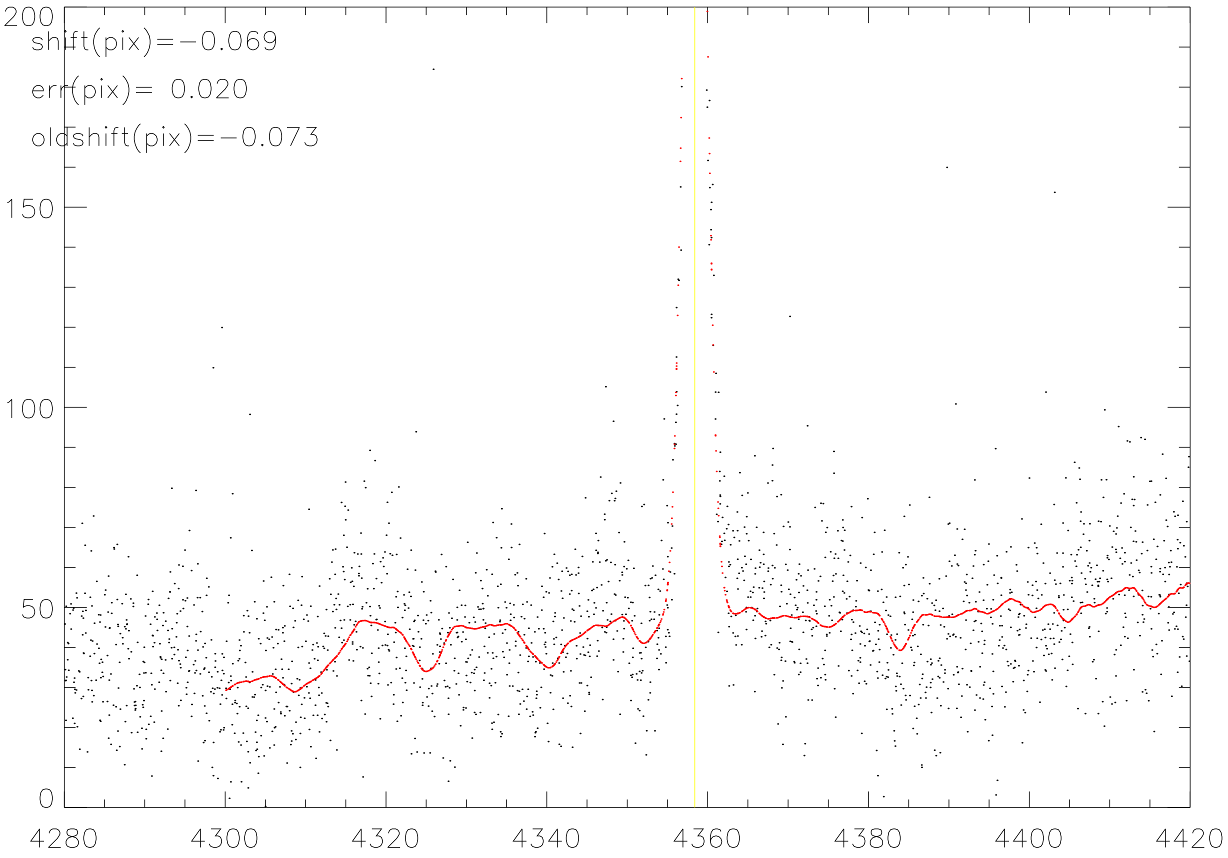


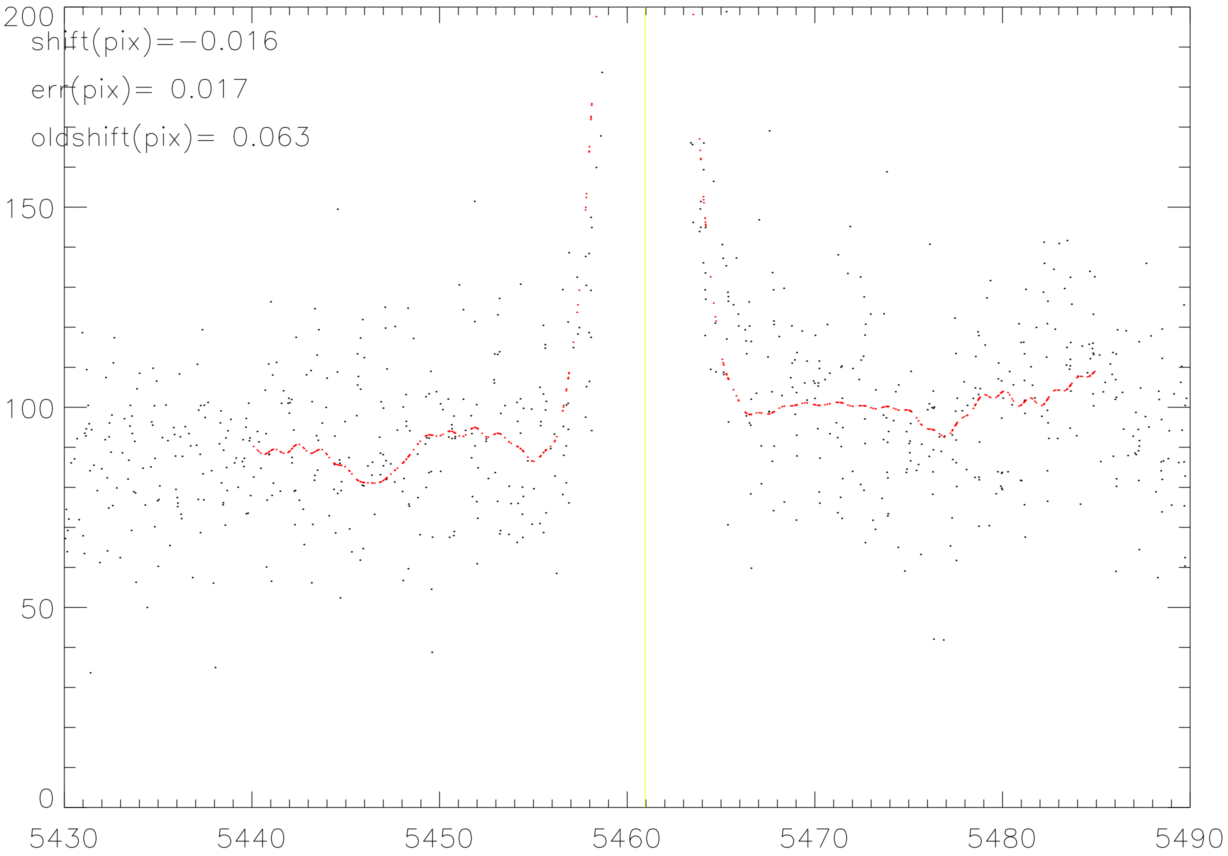
Tue Mar 16 00:44:46 2010

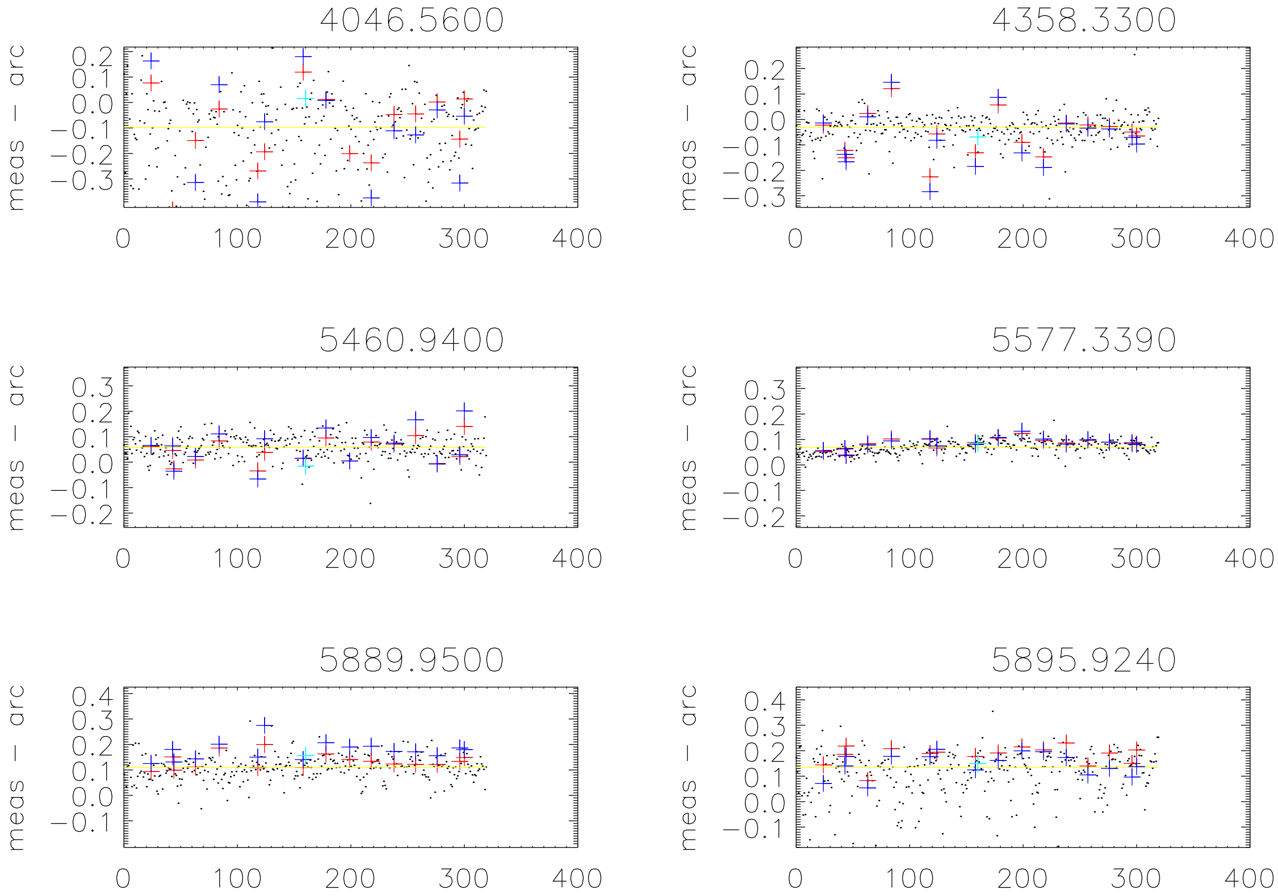

PLATE=3176 MJD=54830 Extraction chi^2 for sdR-b1-00057668.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

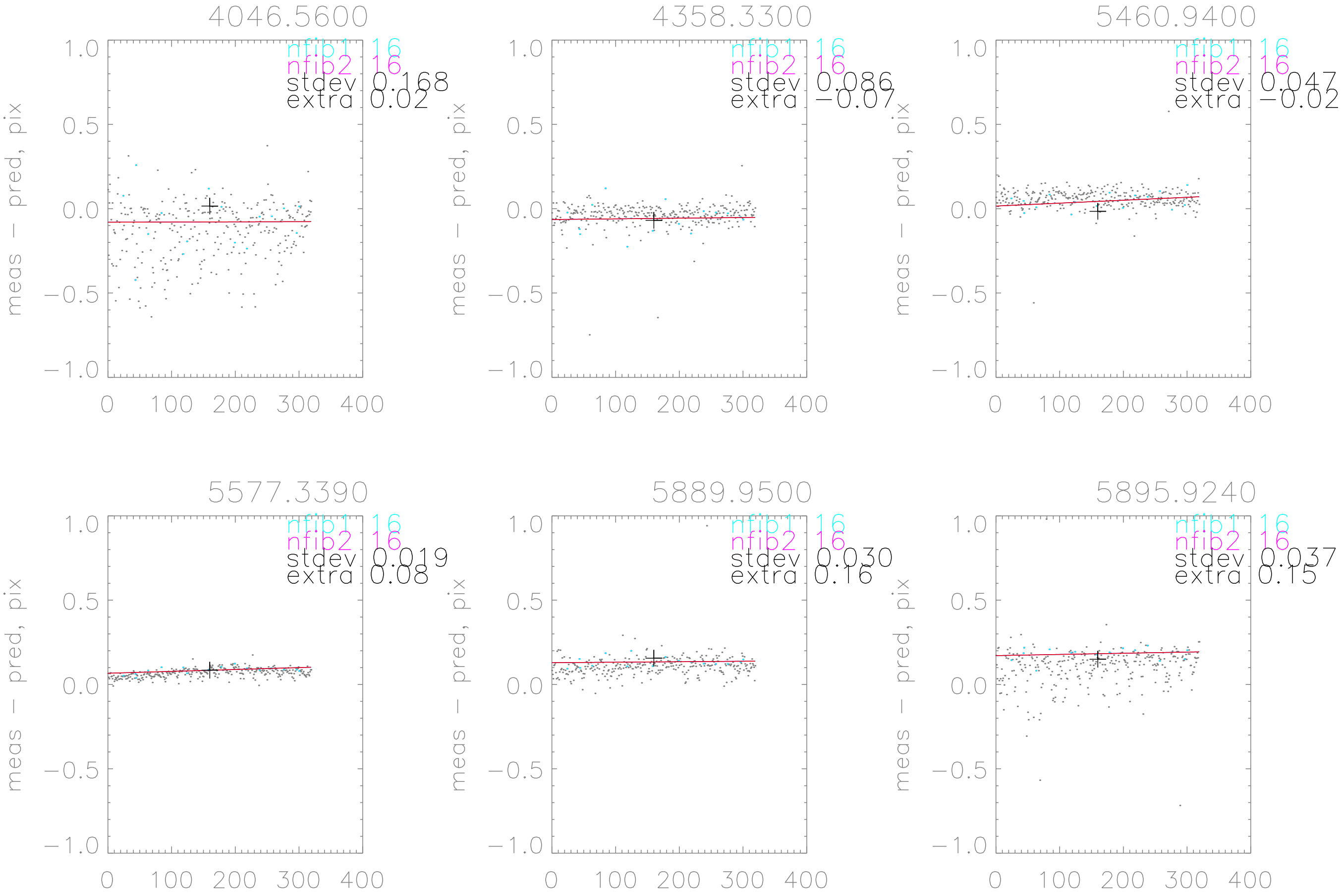

4046.5600
off: −0.11
sig: 0.050
4358.3300
off: −0.07
sig: 0.017
5460.9400
off: 0.06
sig: 0.015
5577.3390
off: 0.08
sig: 0.003
5889.9500
off: 0.17
sig: 0.007
5895.9240
off: 0.15
sig: 0.009
−4
−2
0
2
4

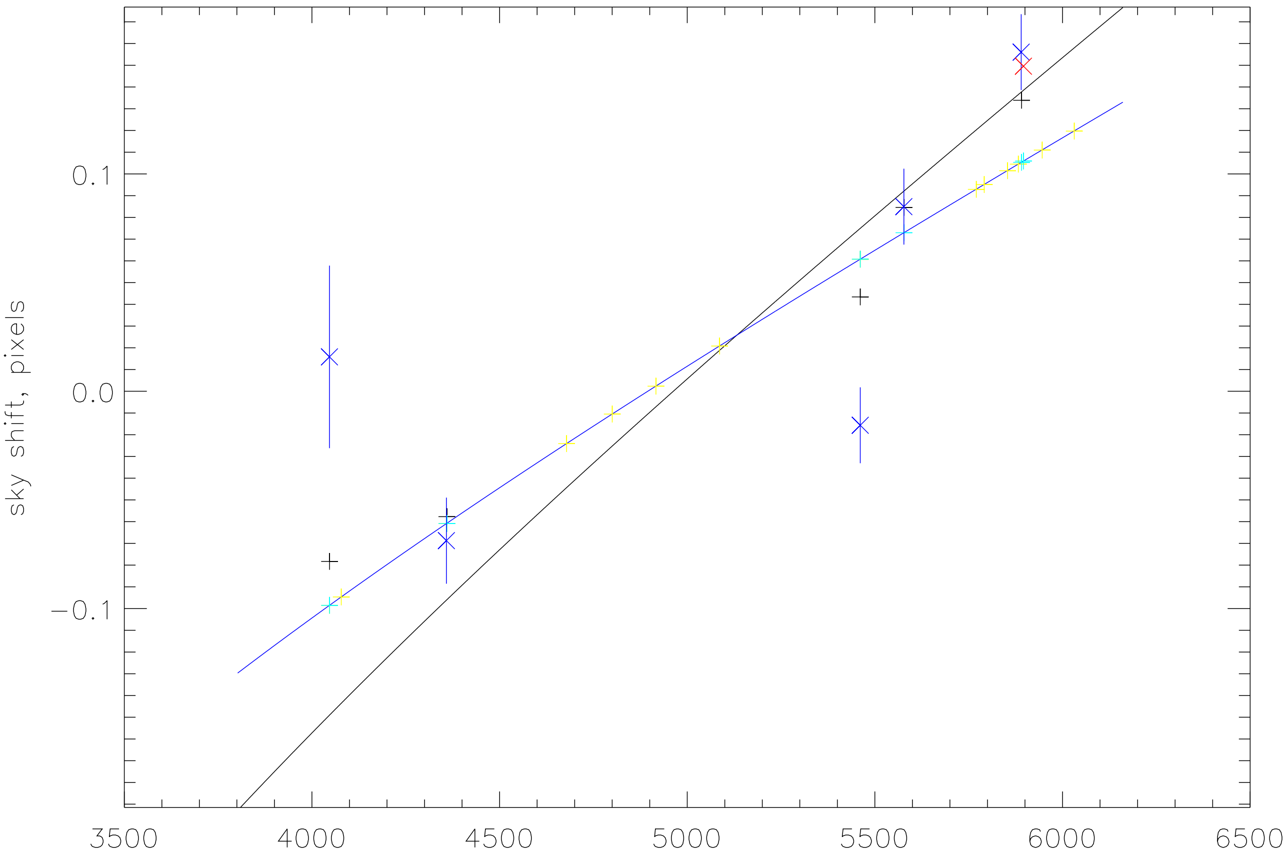

shift(pix)= 0.016
err(pix)= 0.042
oldshift(pix)=−0.113
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

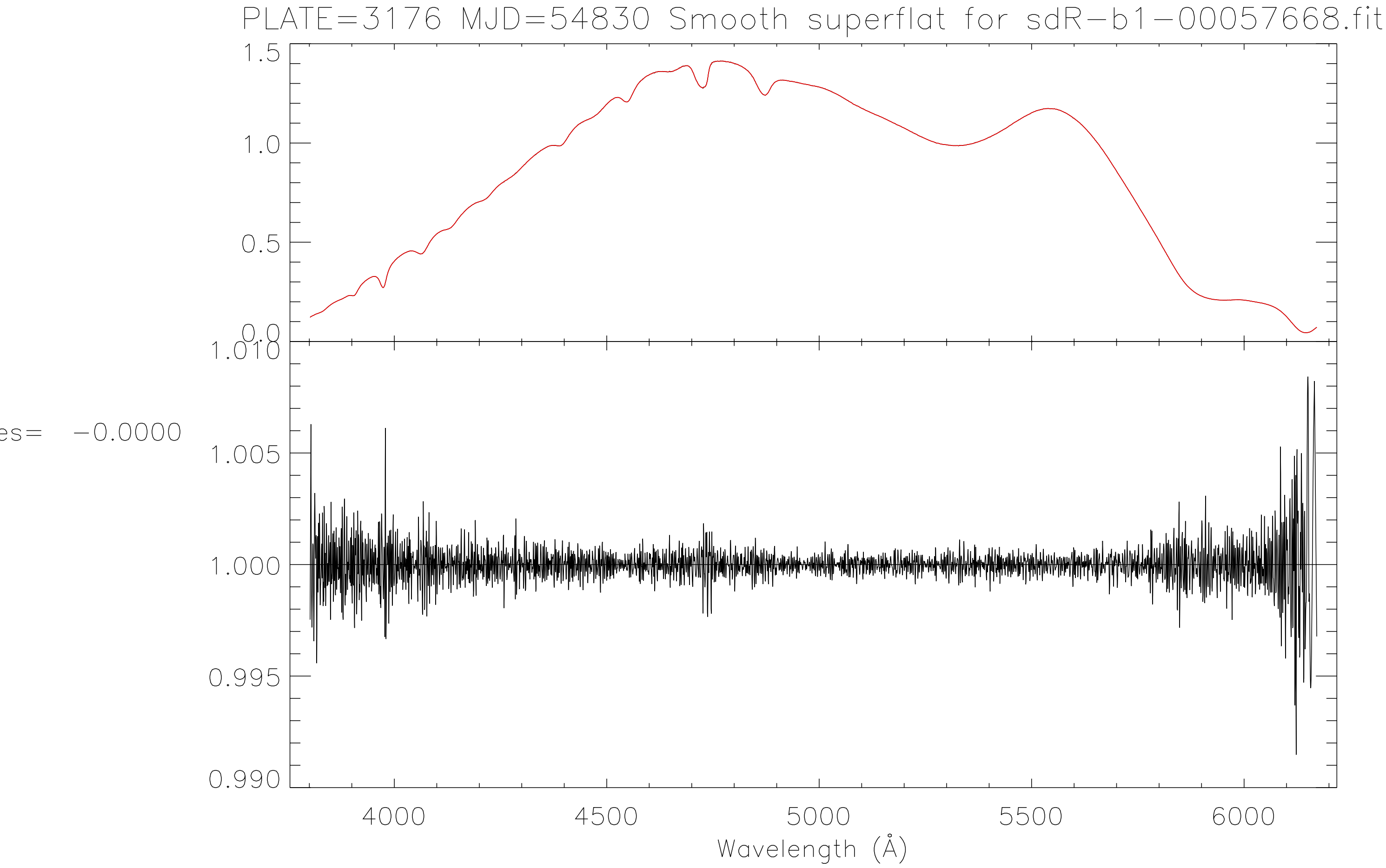

shift(pix)=−0.069
err(pix)= 0.020
oldshift(pix)=−0.073
0
50
100
150
200
4280
4300
4320
4340
4360
4380
4400
4420

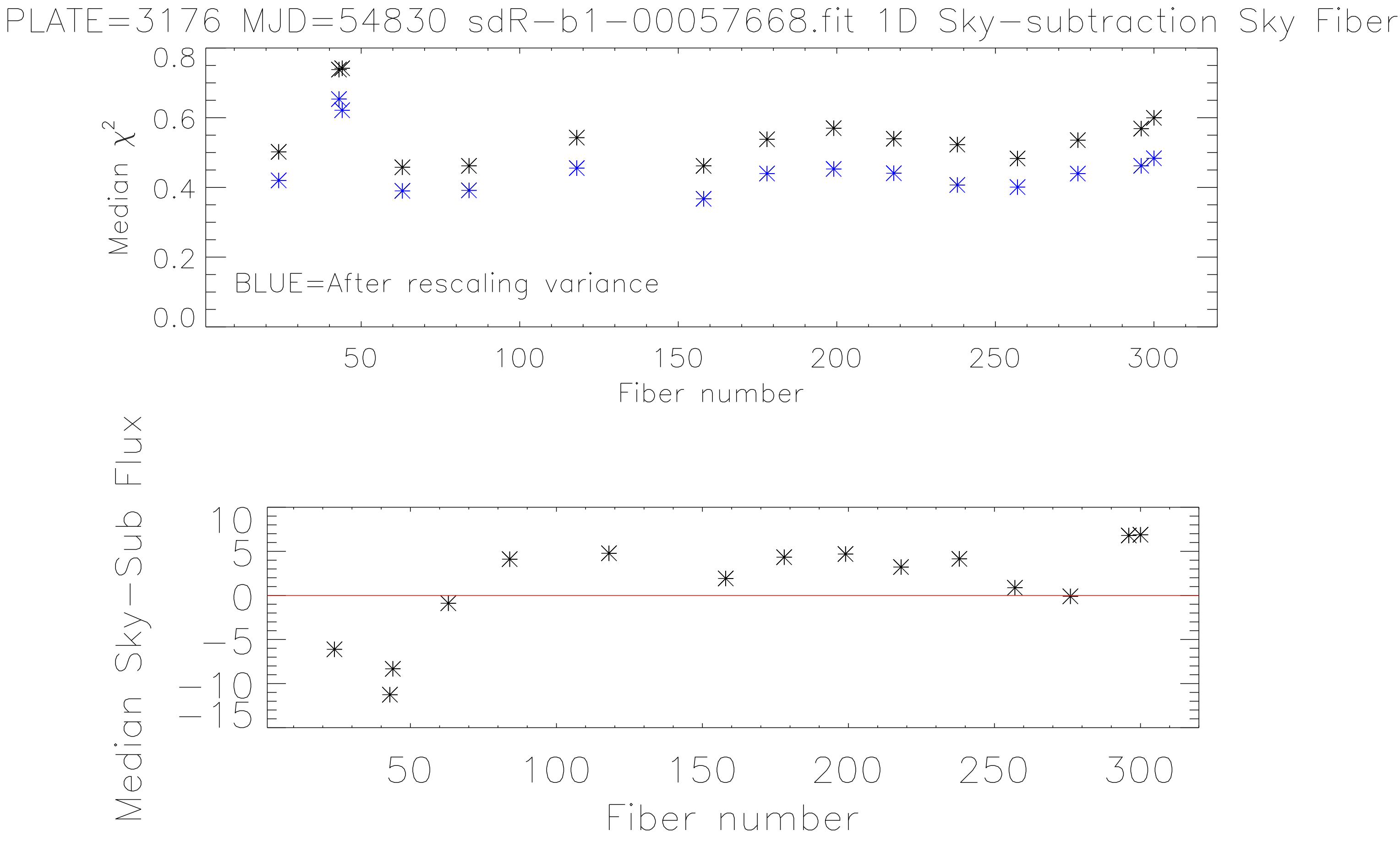

shift(pix)=−0.016
err(pix)= 0.017
oldshift(pix)= 0.063
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490


4046.5600
4358.3300
5460.9400
5577.3390
5889.9500
5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

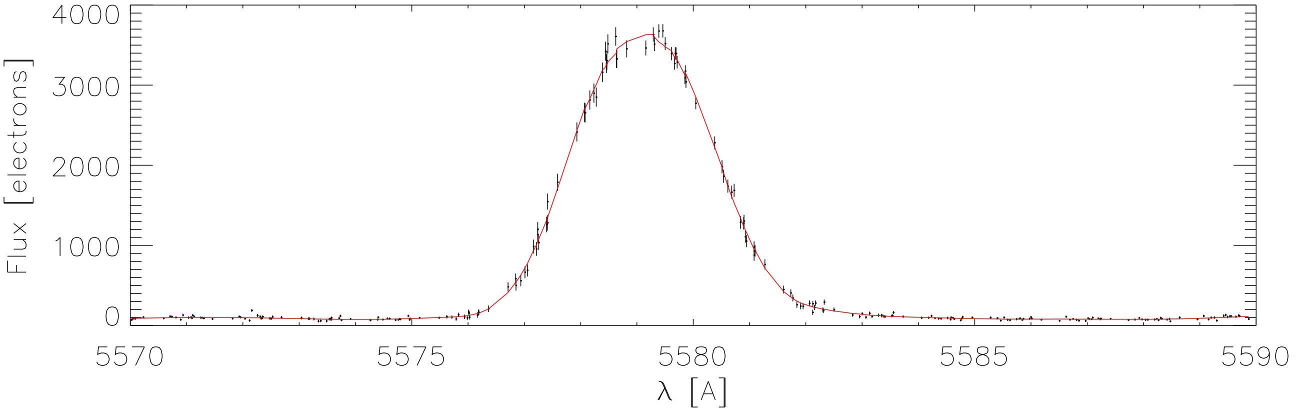

4046.5600
nfib1 16
nfib2 16
stdev 0.168
extra 0.02
4358.3300
nfib1 16
nfib2 16
stdev 0.086
extra −0.07
5460.9400
nfib1 16
nfib2 16
stdev 0.047
extra −0.02
5577.3390
nfib1 16
nfib2 16
stdev 0.019
extra 0.08
5889.9500
nfib1 16
nfib2 16
stdev 0.030
extra 0.16
5895.9240
nfib1 16
nfib2 16
stdev 0.037
extra 0.15
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400


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

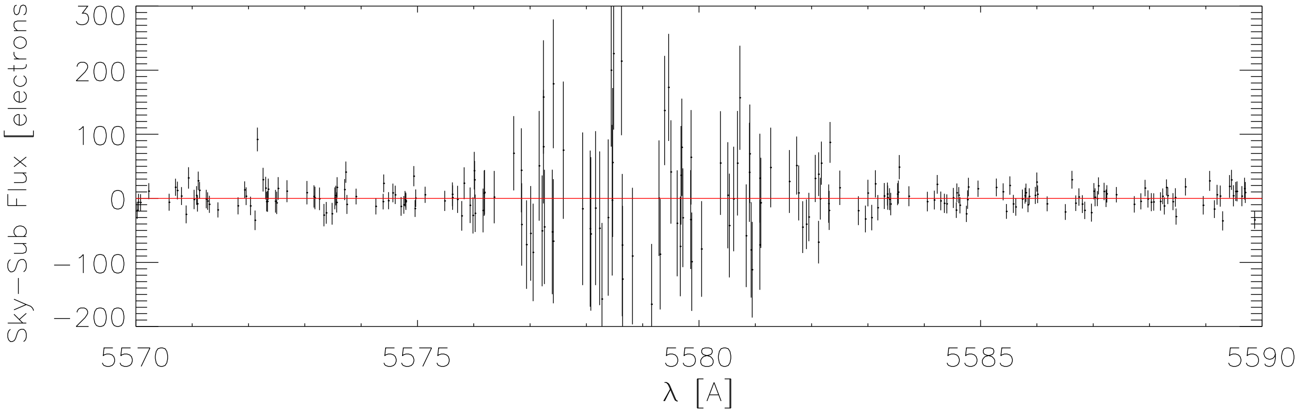

PLATE=3176 MJD=54830 Smooth superflat for sdR-b1-00057668.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es=   −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)


PLATE=3176 MJD=54830 sdR-b1-00057668.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

PLATE=3176 MJD=54830 sdR-b1-00057668.fit 1D Sky-subtraction Sky Fibers

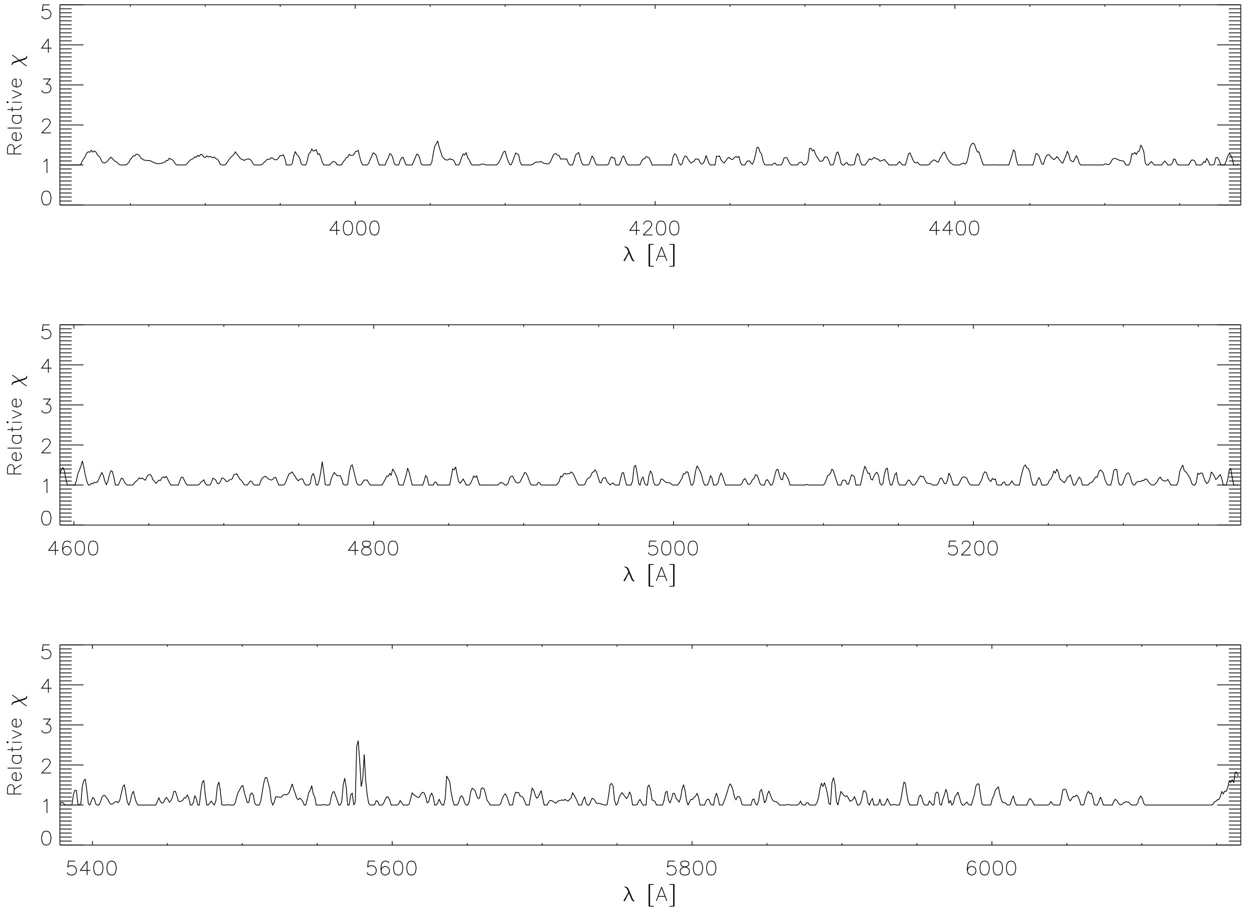


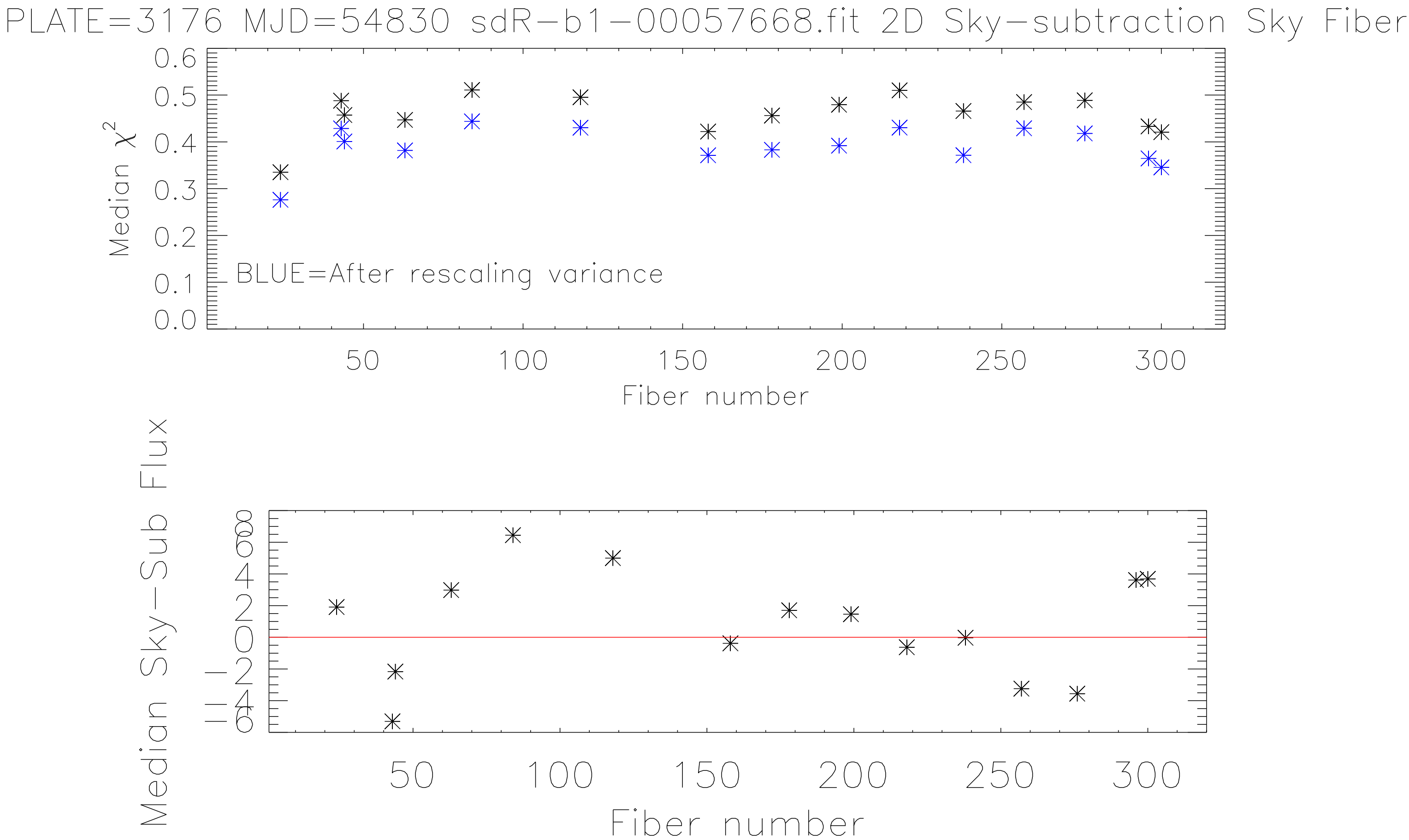
PLATE=3176 MJD=54830 sdR-b1-00057668.fit 1D Sky-subtraction Sky-subtracted Sky F

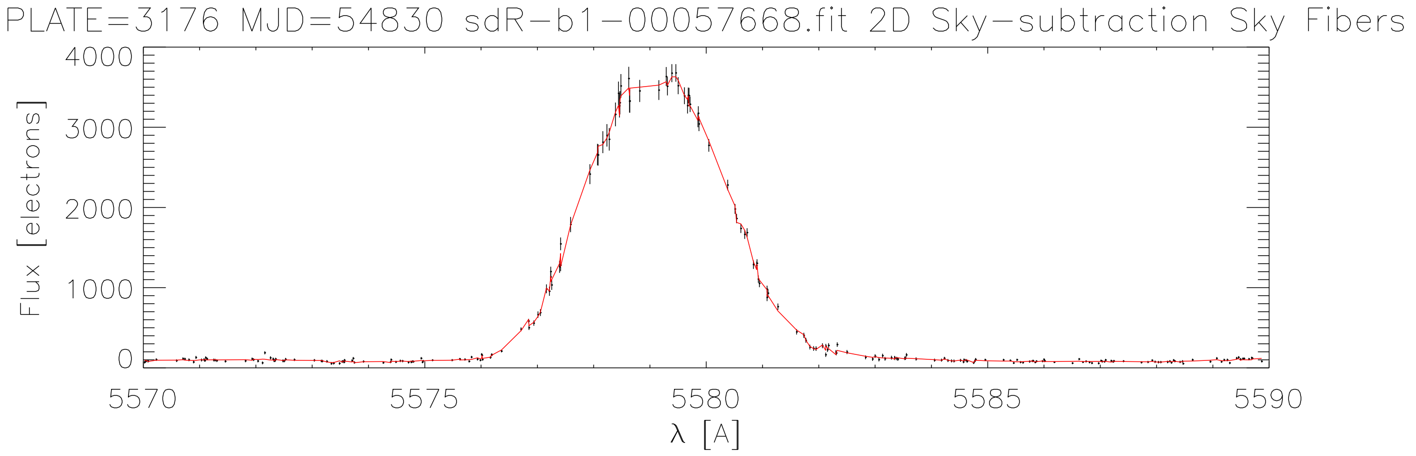


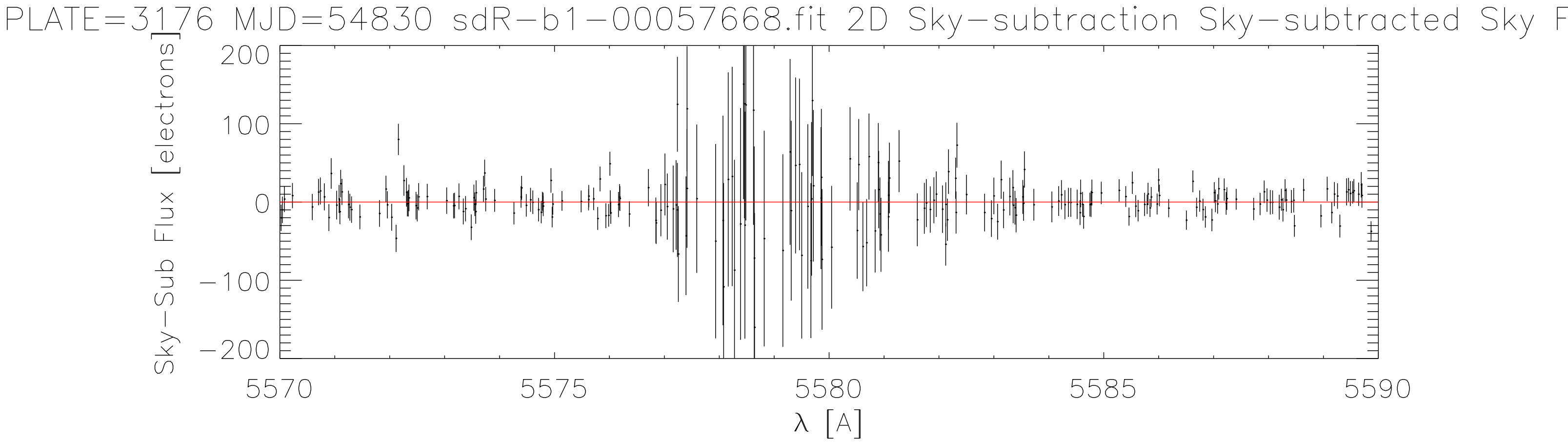
Number of sky fibers = 15

PLATE=3176 MJD=54830 sdR-b1-00057668.fit 1D Sky-subtraction Rescaled Errors



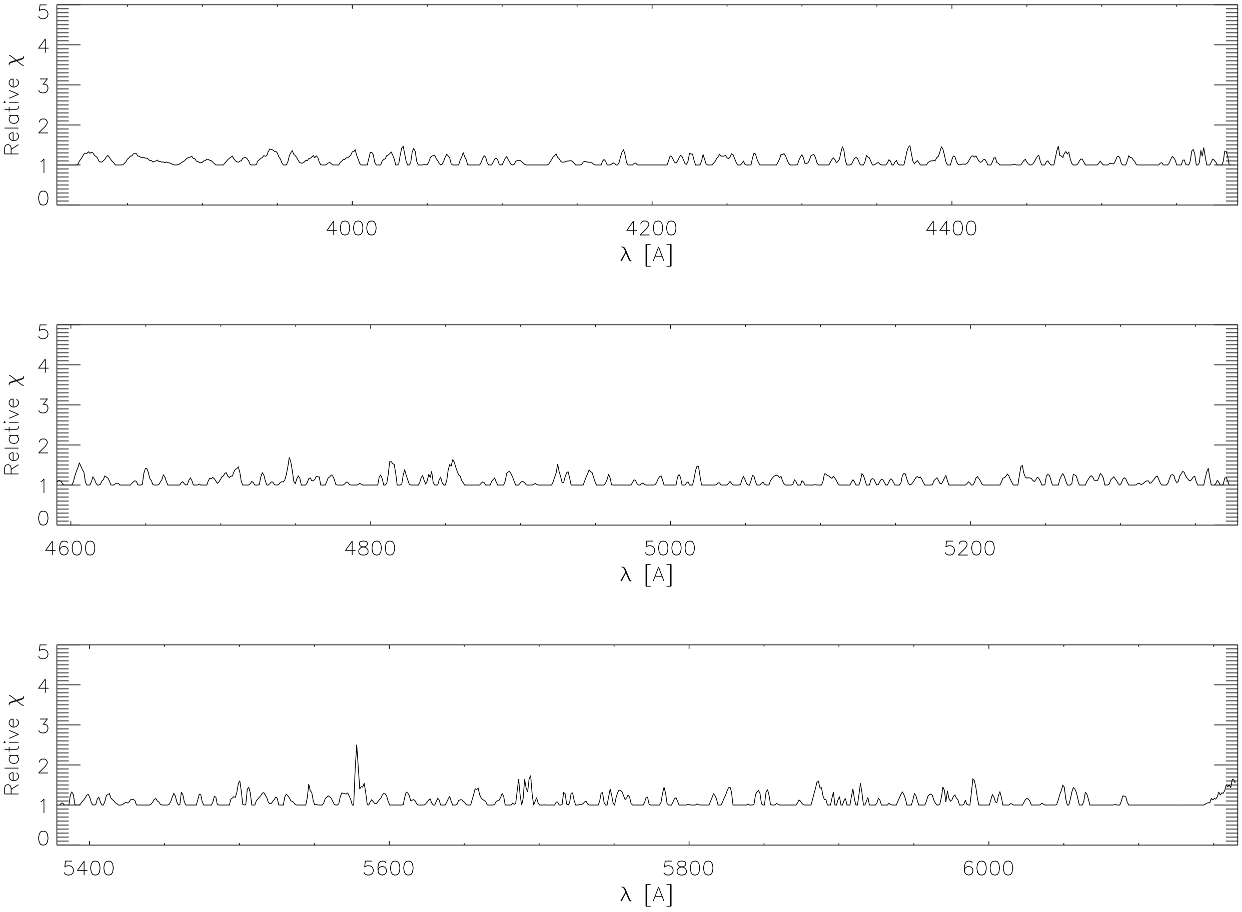

PLATE=3176 MJD=54830 sdR-b1-00057668.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

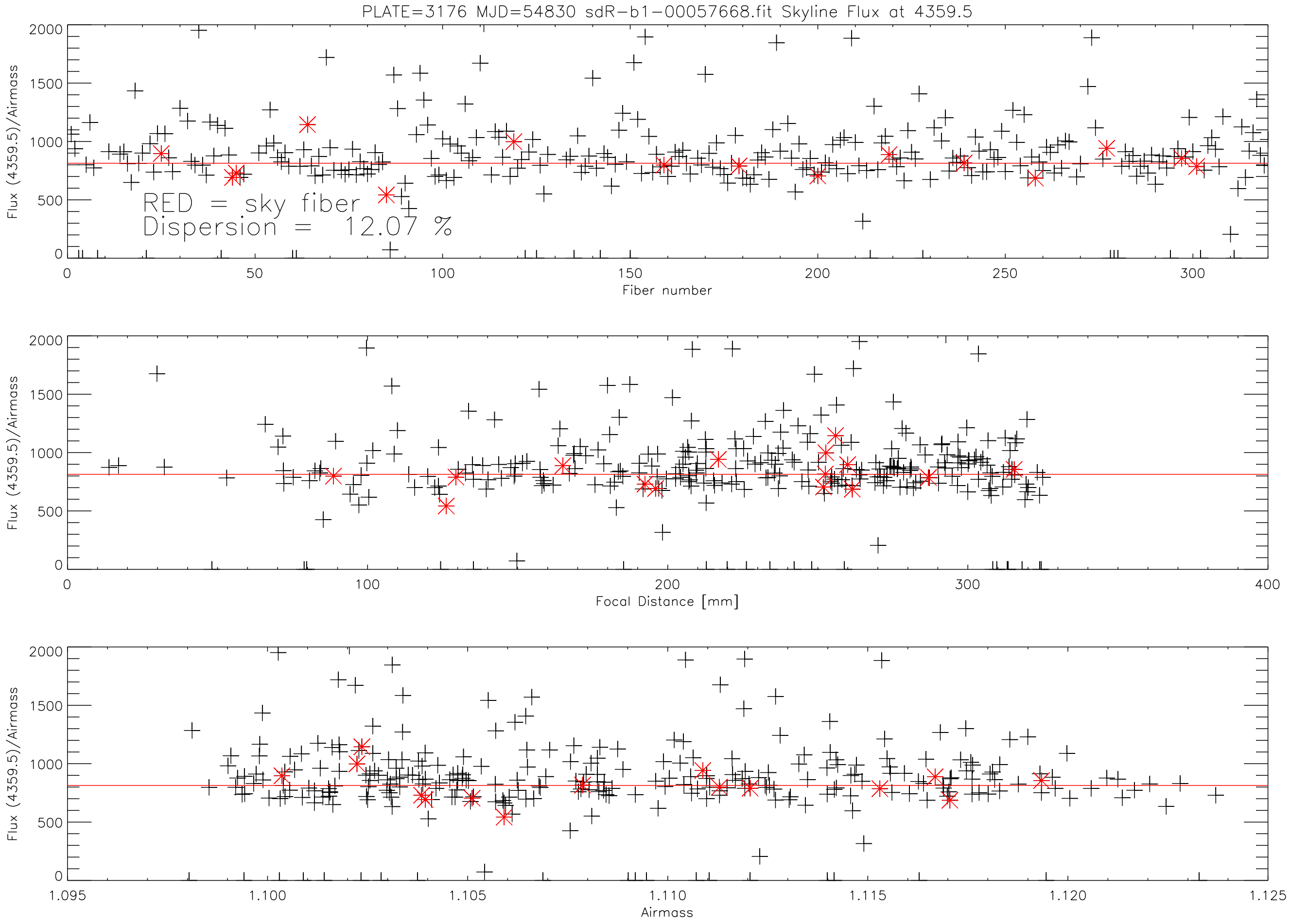

PLATE=3176 MJD=54830 sdR-b1-00057668.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

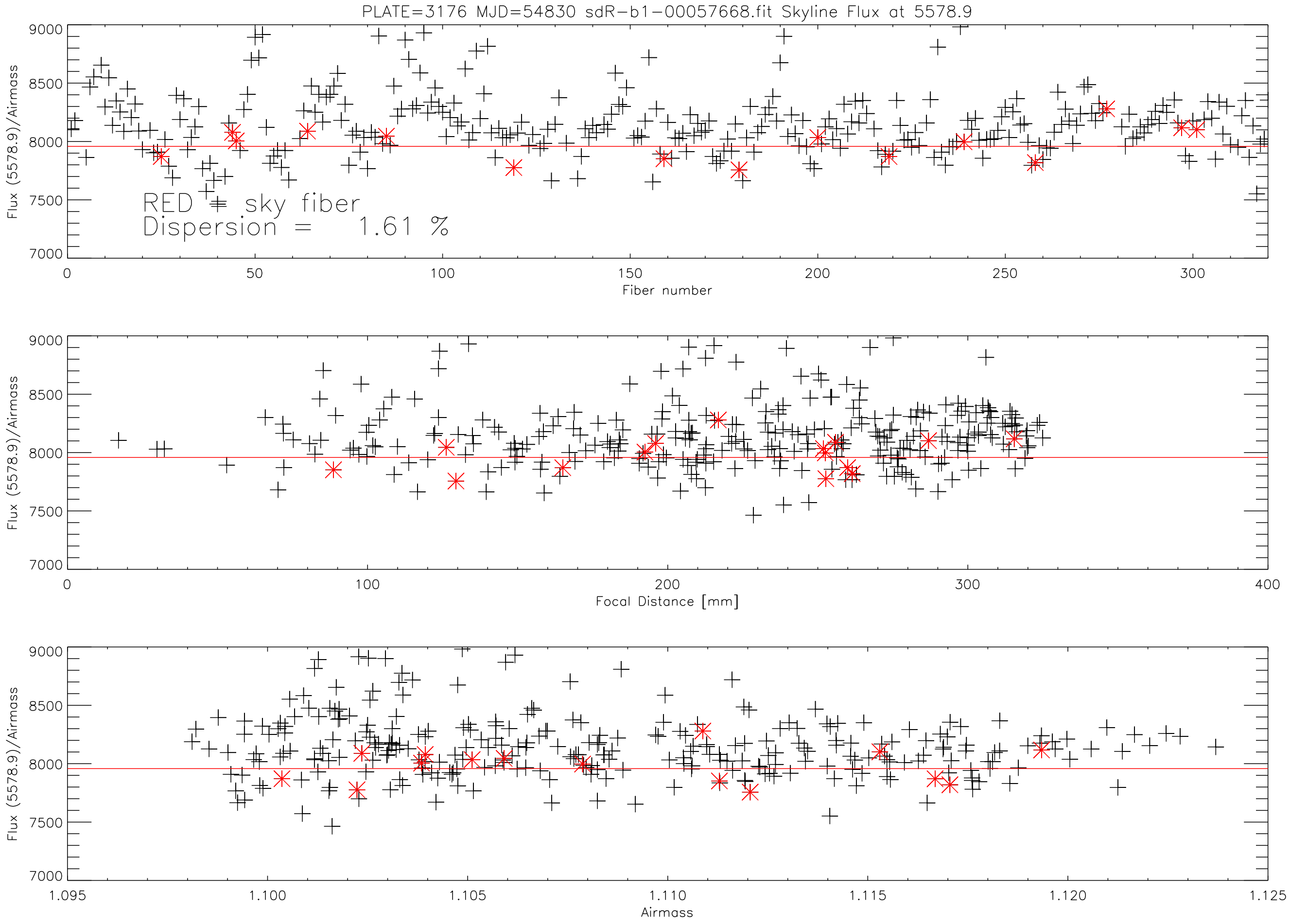

PLATE=3176 MJD=54830 sdR-b1-00057668.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
−100
−200
5570
5575
5580
5585
5590
λ [A]

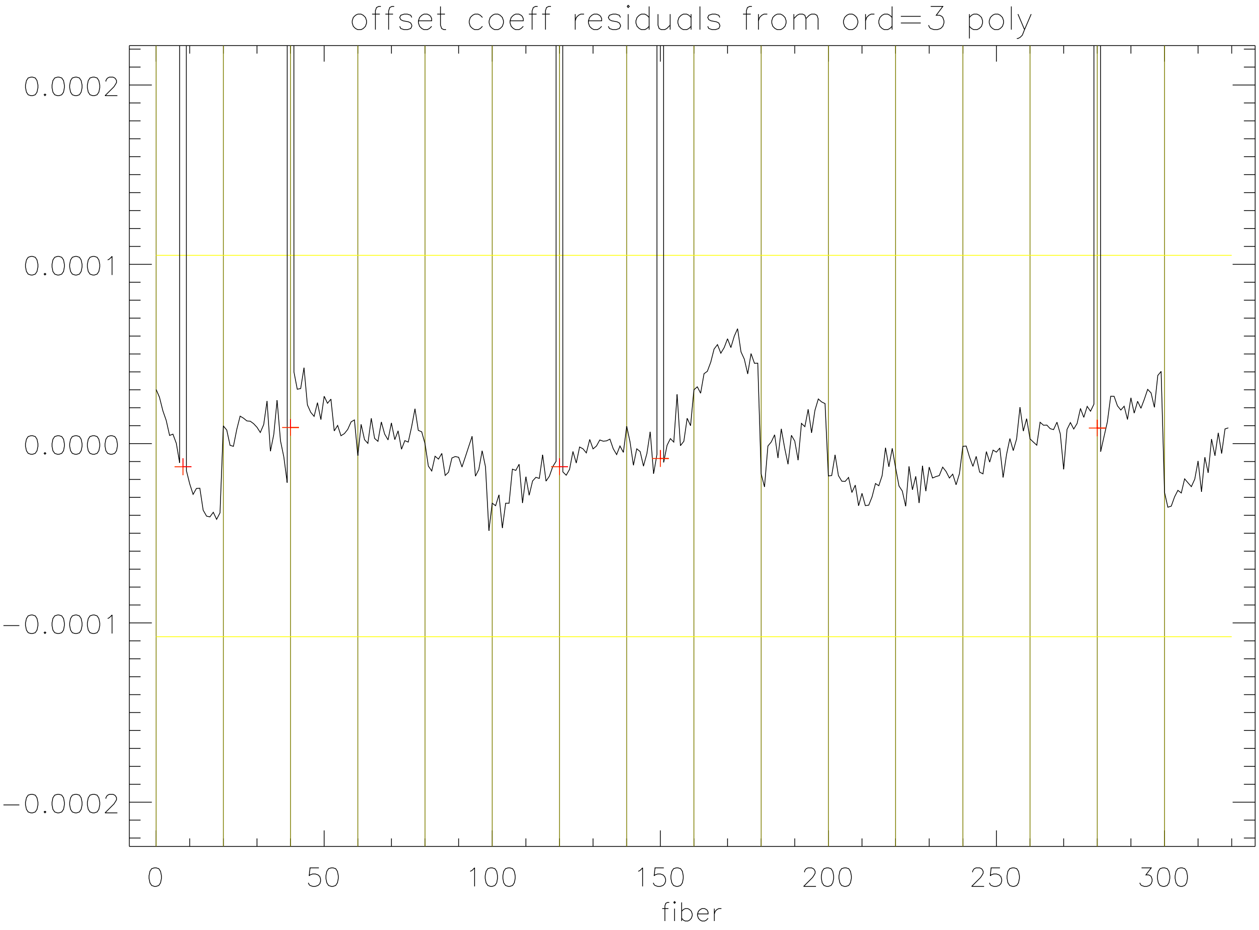
Number of sky fibers = 15

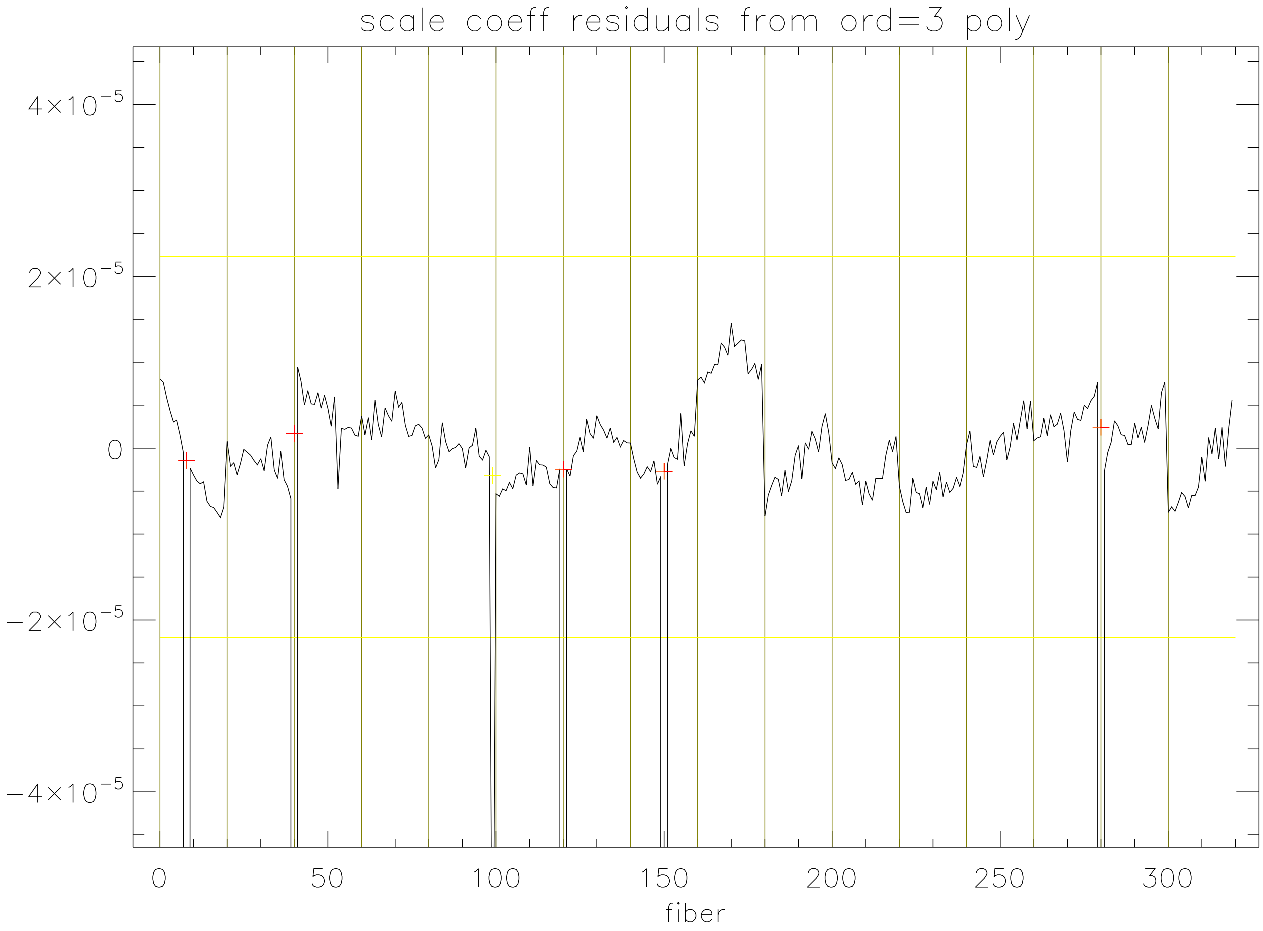
PLATE=3176 MJD=54830 sdR-b1-00057668.fit 2D Sky-subtraction Rescaled Errors

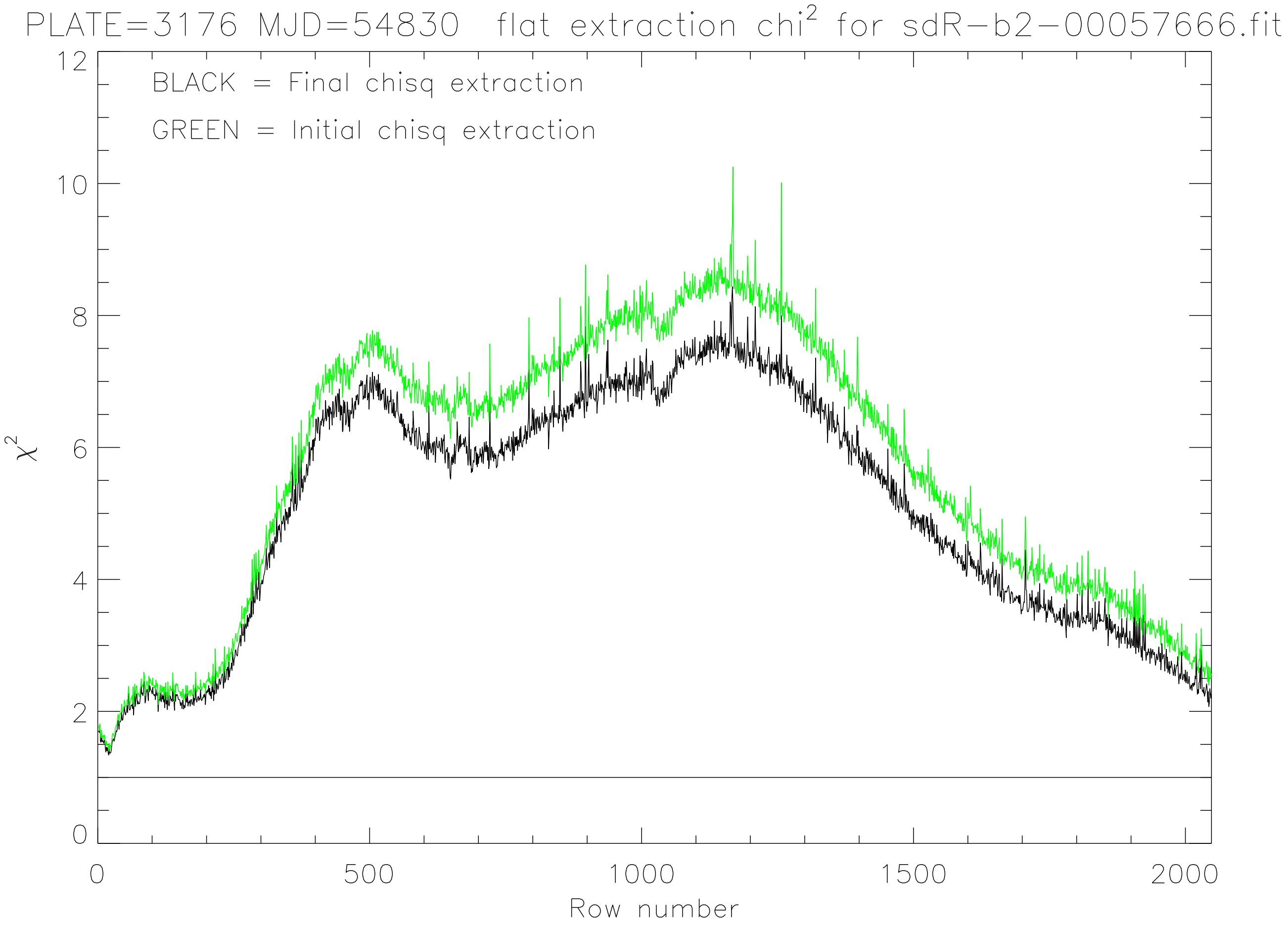


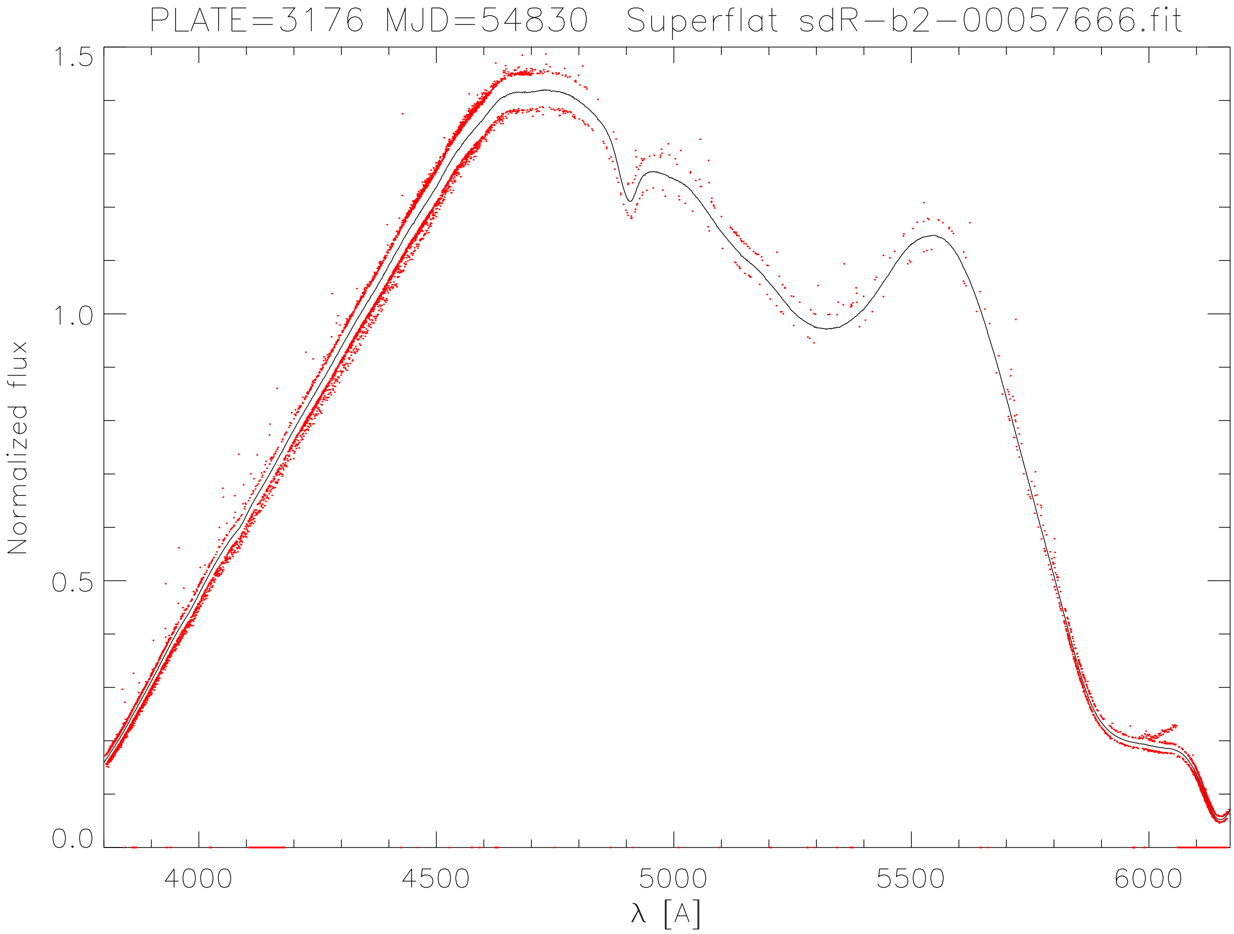

PLATE=3176 MJD=54830 sdR-b1-00057668.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 12.07 %
Fiber number
0
50
100
150
200
250
300
0
500
1000
1500
2000
Focal Distance [mm]
0
100
200
300
400
Airmass
1.095
1.100
1.105
1.110
1.115
1.120
1.125

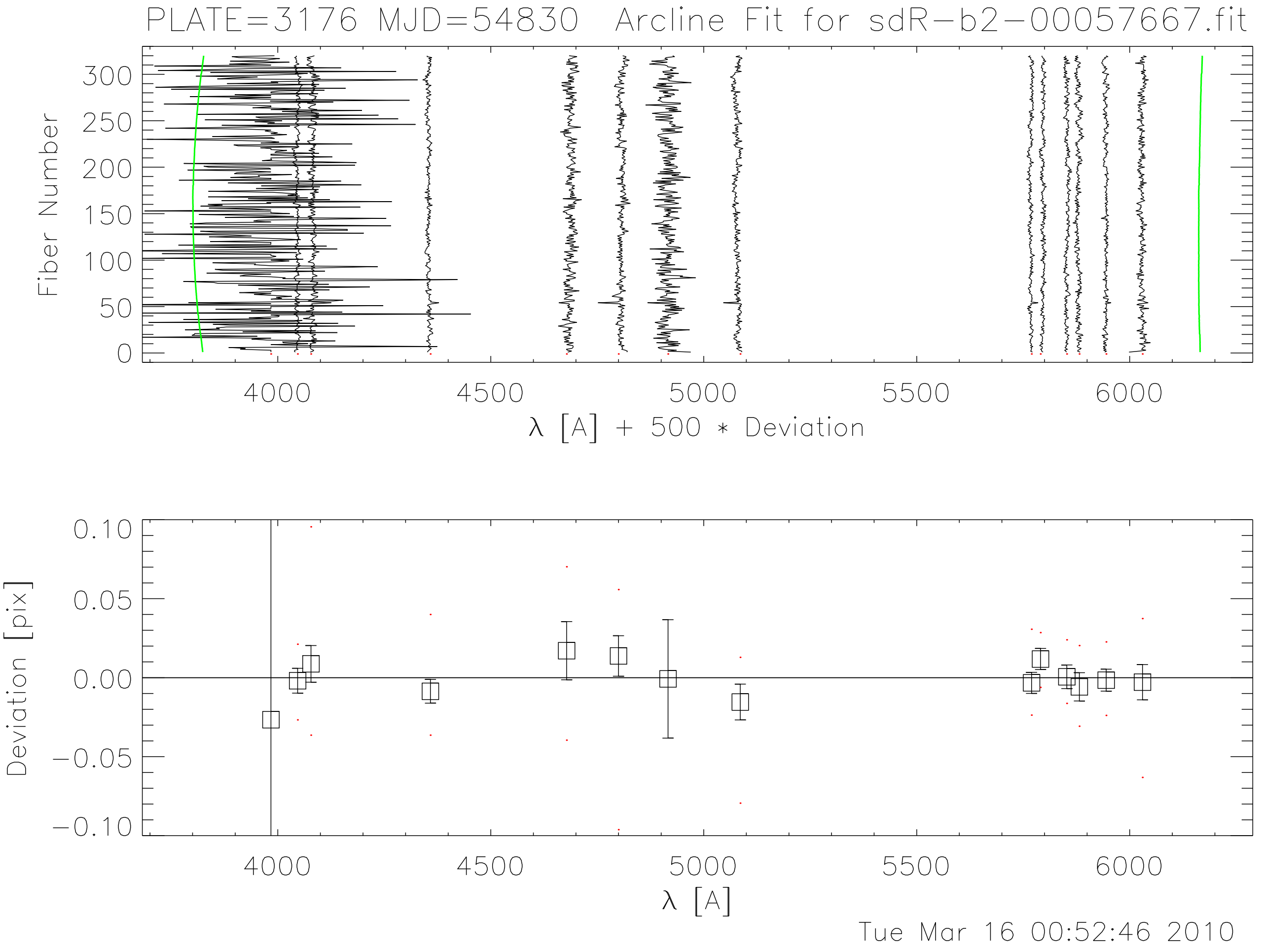

PLATE=3176 MJD=54830 sdR-b1-00057668.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
9000
8500
8000
7500
7000
RED = sky fiber
Dispersion = 1.61 %
0
50
100
150
200
250
300
Fiber number
Flux (5578.9)/Airmass
9000
8500
8000
7500
7000
0
100
200
300
400
Focal Distance [mm]
Flux (5578.9)/Airmass
9000
8500
8000
7500
7000
1.095
1.100
1.105
1.110
1.115
1.120
1.125
Airmass

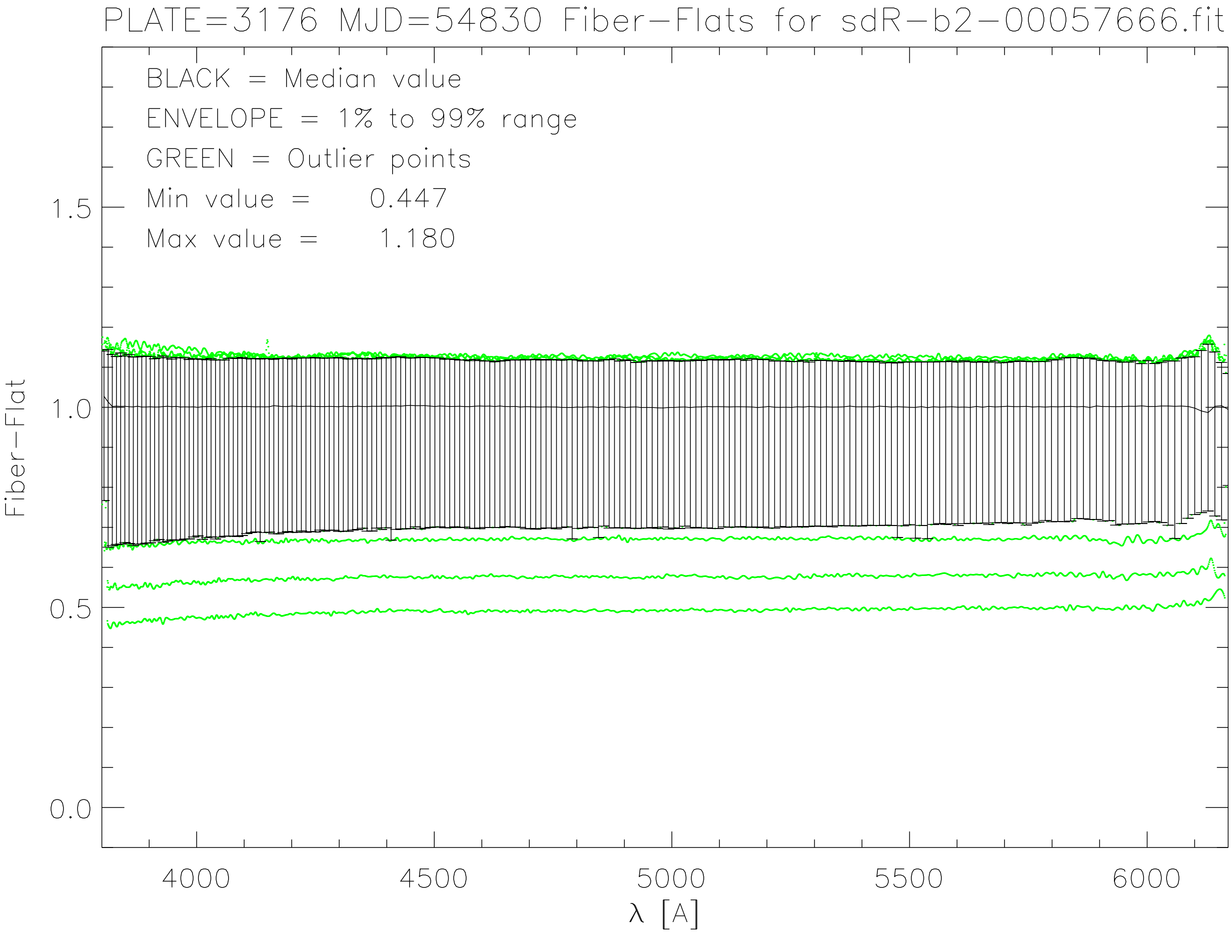

offset coeff residuals from ord=3 poly
0.0002
0.0001
0.0000
−0.0001
−0.0002
0
50
100
150
200
250
300
fiber


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

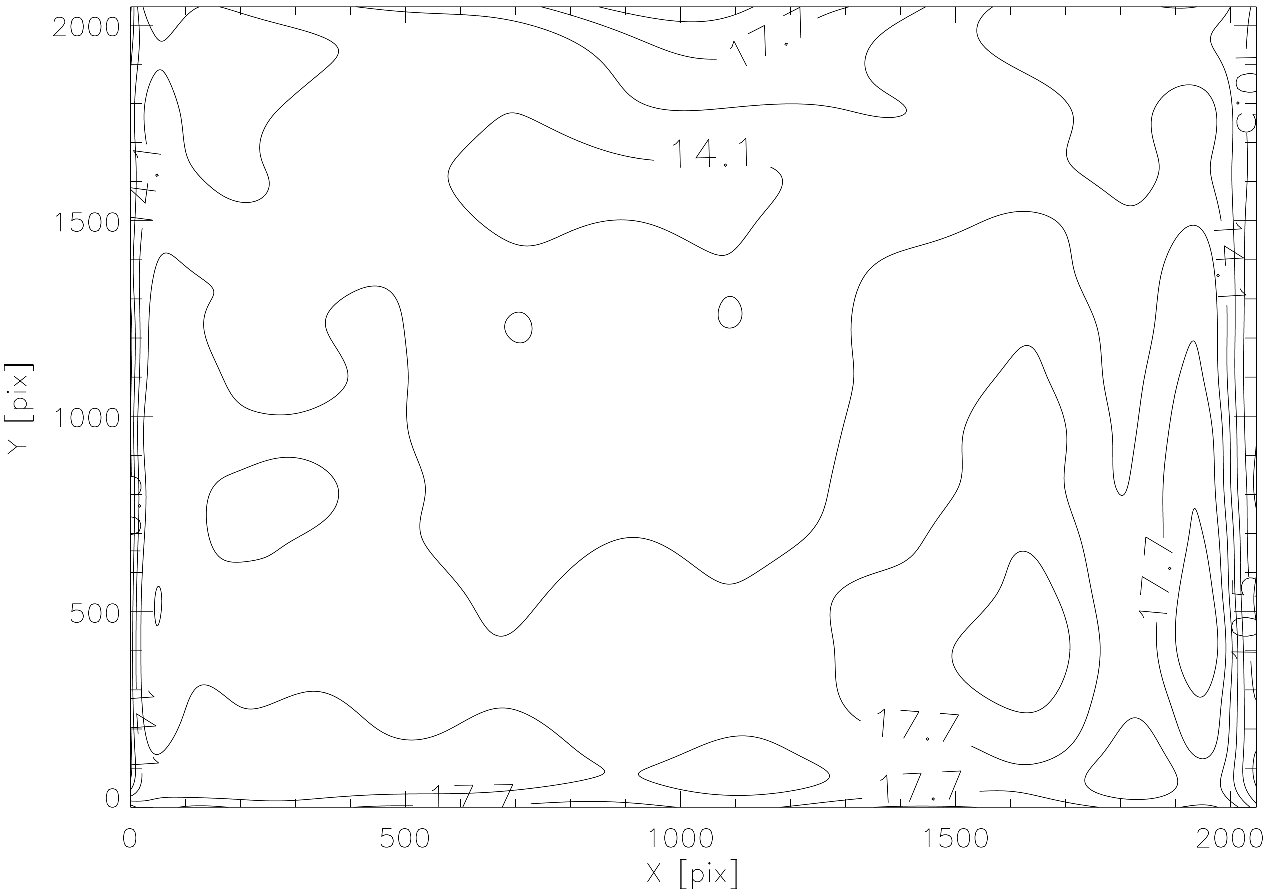

PLATE=3176 MJD=54830 flat extraction chi^2 for sdR-b2-00057666.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
10
12
0
500
1000
1500
2000
Row number


PLATE=3176 MJD=54830 Superflat sdR-b2-00057666.fit
Normalized flux
0.0
0.5
1.0
1.5
4000
4500
5000
5500
6000
λ [A]

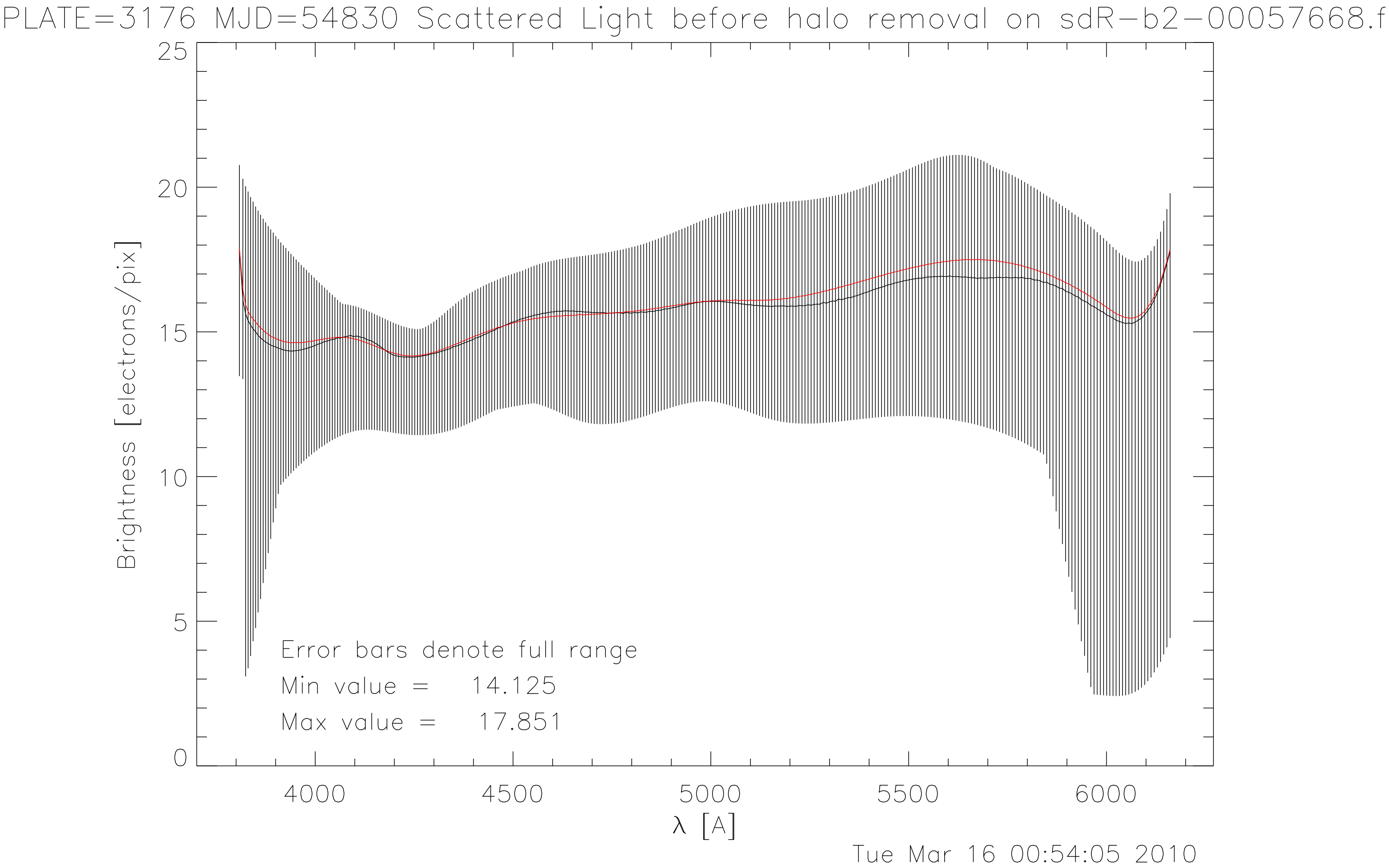

PLATE=3176 MJD=54830 Arcline Fit for sdR-b2-00057667.fit
Fiber Number
0
50
100
150
200
250
300
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Tue Mar 16 00:52:46 2010



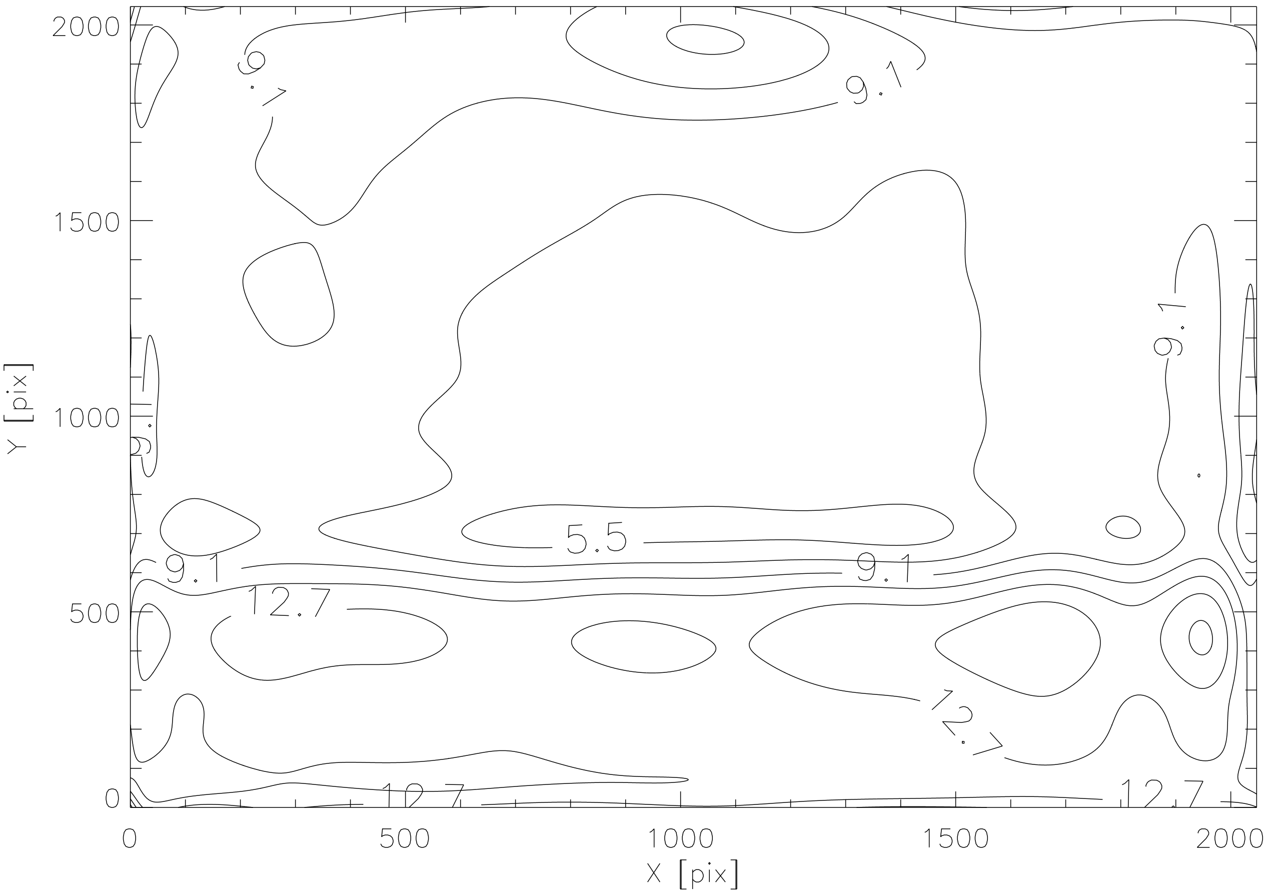
Tue Mar 16 00:52:57 2010

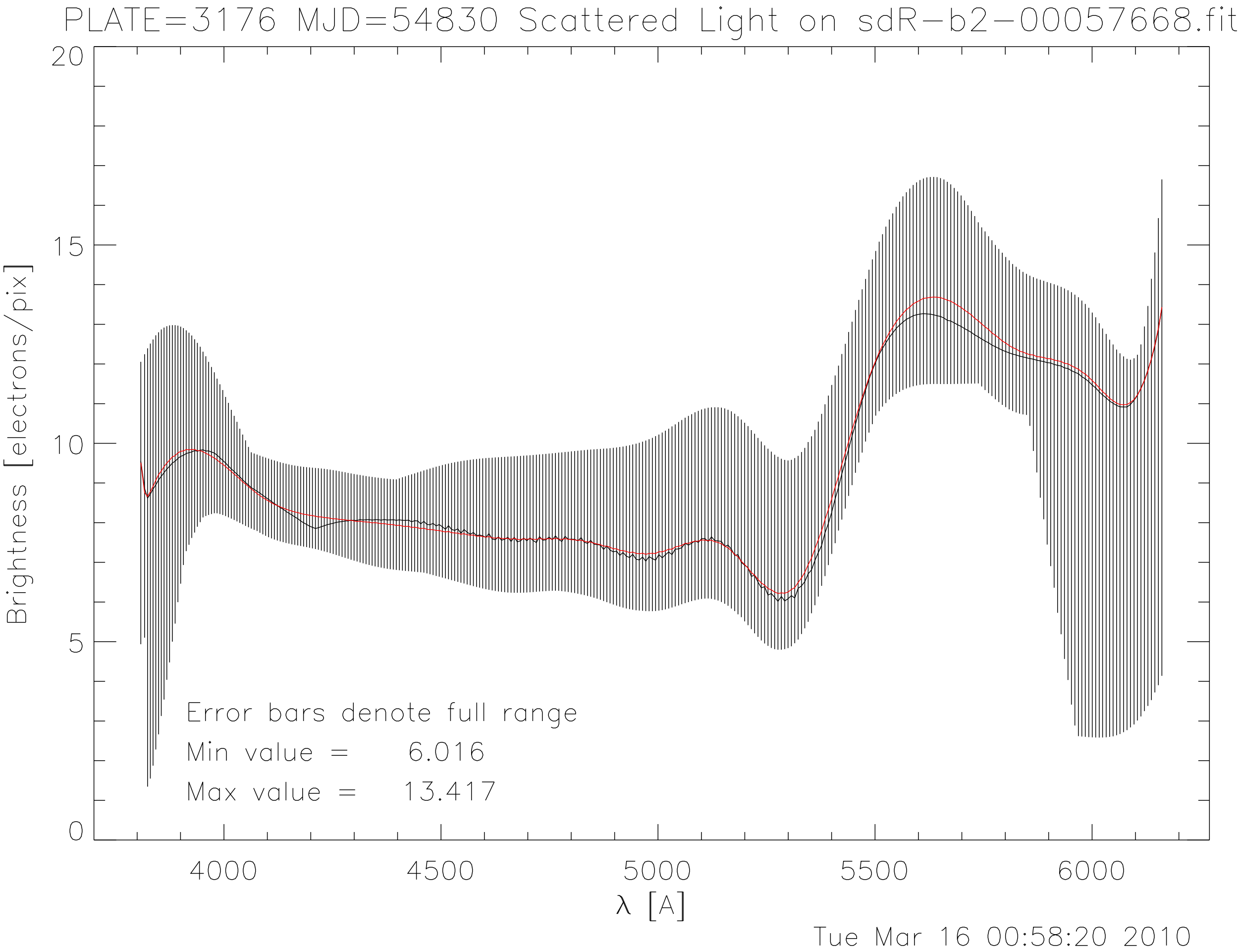


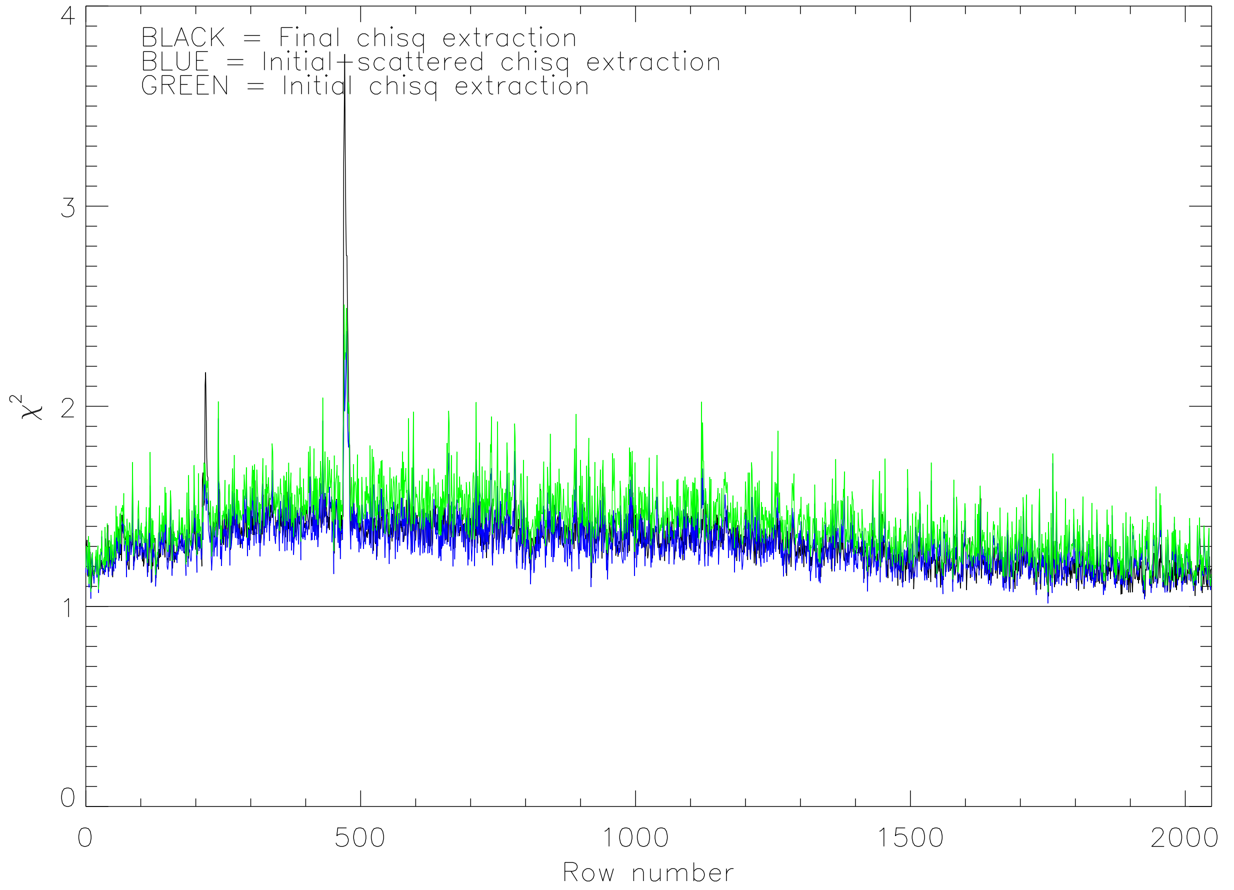
PLATE=3176 MJD=54830 Scattered Light before halo removal on sdR-b2-00057668.f


PLATE=3176 MJD=54830 Scattered Light before halo removal on sdR-b2-00057668.f
Brightness [electrons/pix]
25
20
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 14.125
Max value = 17.851
Tue Mar 16 00:54:05 2010

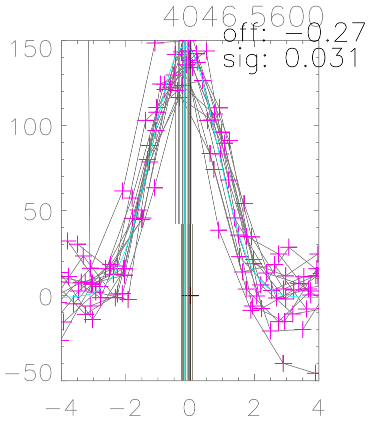
PLATE=3176 MJD=54830 Scattered Light on sdR-b2-00057668.fit

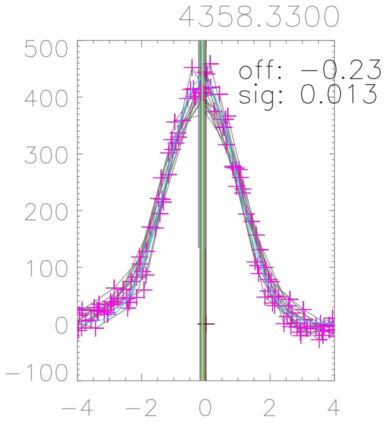


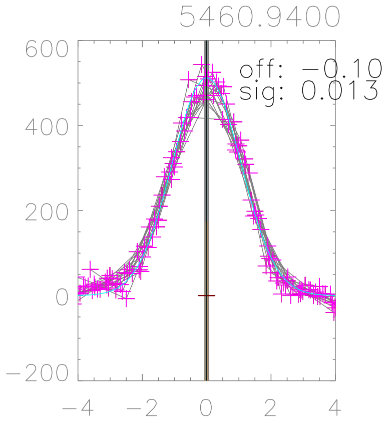

PLATE=3176 MJD=54830 Scattered Light on sdR-b2-00057668.fit
Brightness [electrons/pix]
0
5
10
15
20
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 6.016
Max value = 13.417
Tue Mar 16 00:58:20 2010

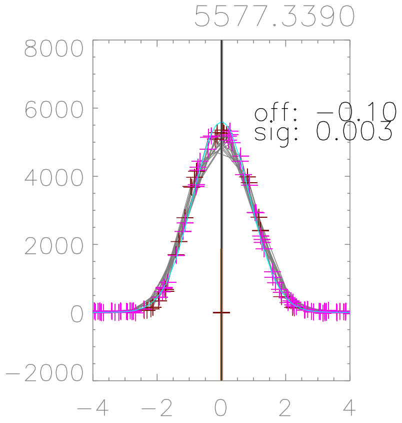


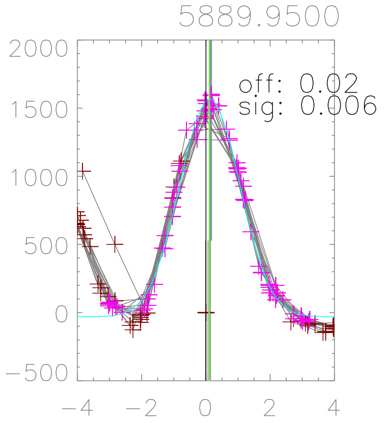
PLATE=3176 MJD=54830 Extraction chi^2 for sdR-b2-00057668.fit

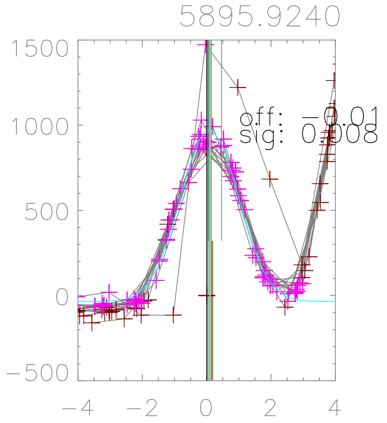

4046.5600
off: −0.27
sig: 0.031
150
100
50
0
−50
−4
−2
0
2
4

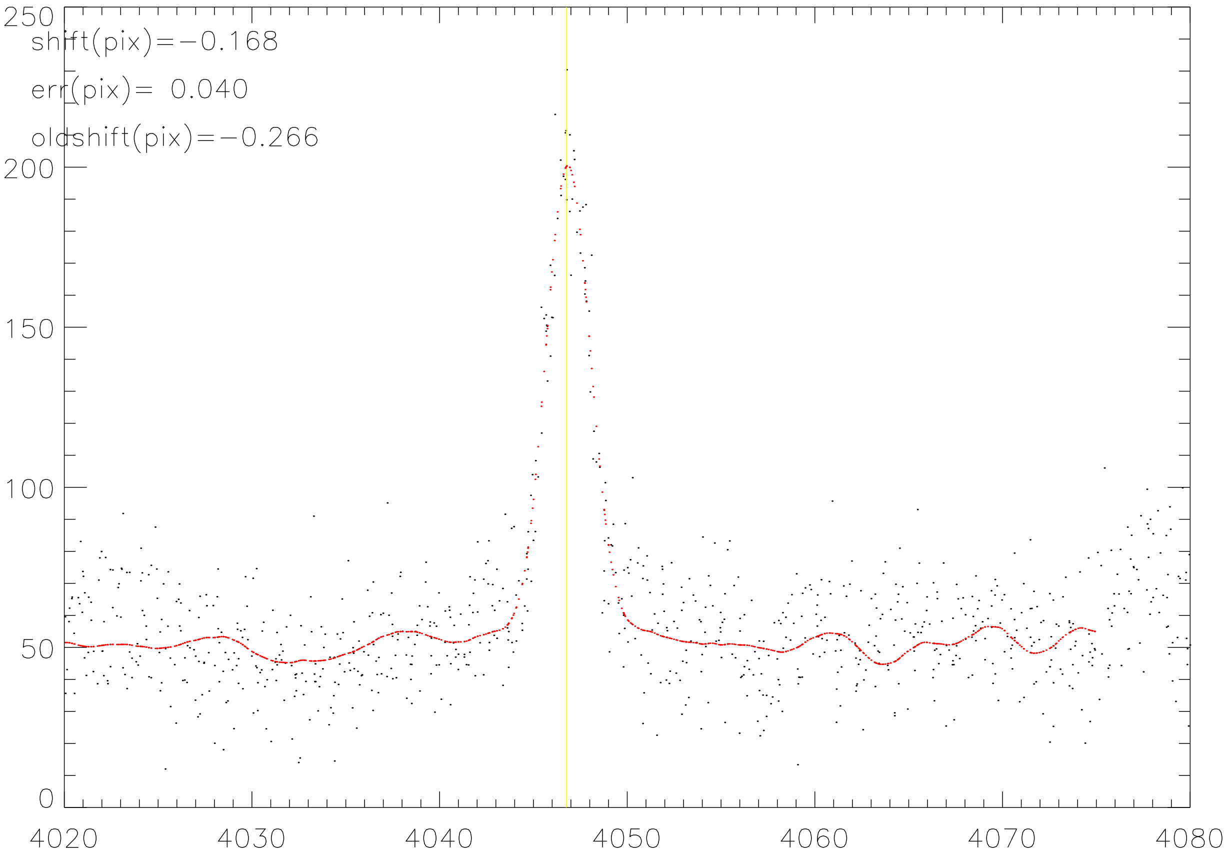

4358.3300
off: −0.23
sig: 0.013
500
400
300
200
100
0
−100
−4
−2
0
2
4

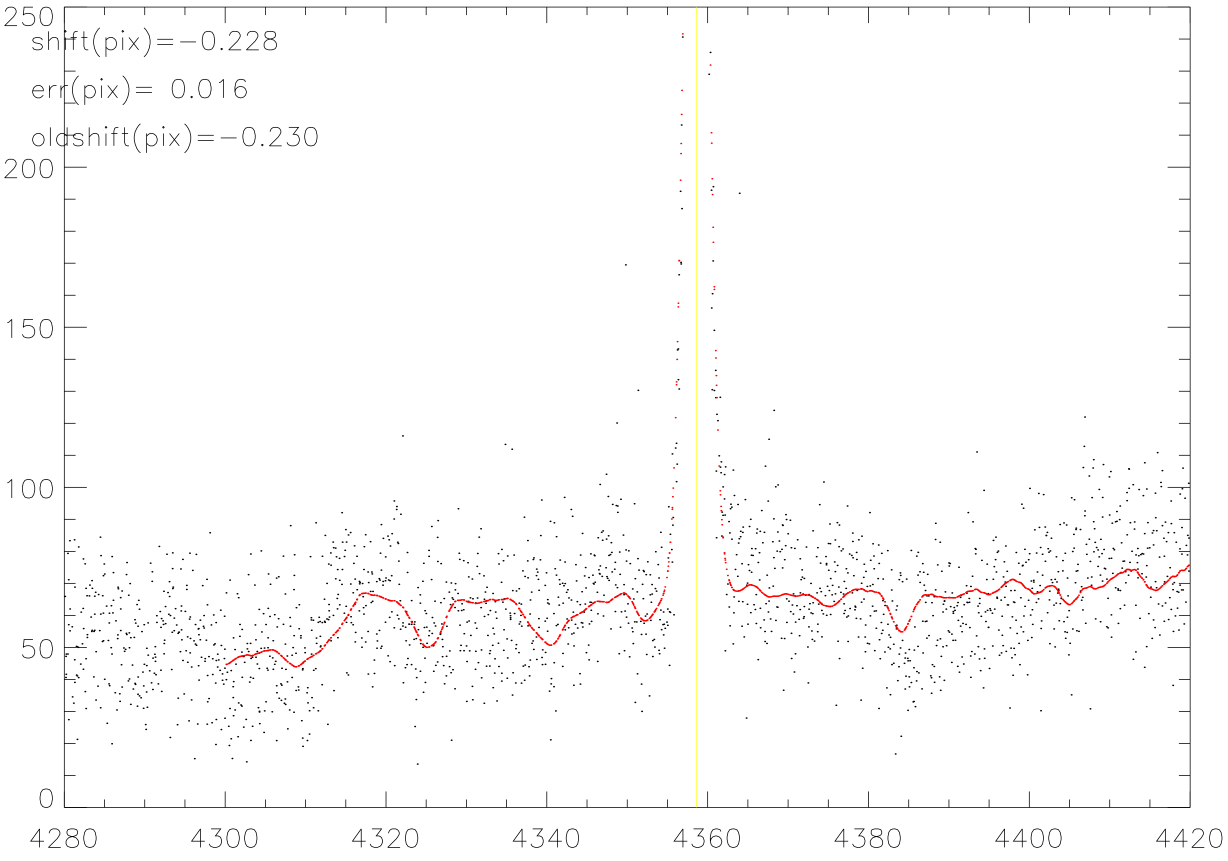

5460.9400
off: −0.10
sig: 0.013
600
400
200
0
−200
−4
−2
0
2
4

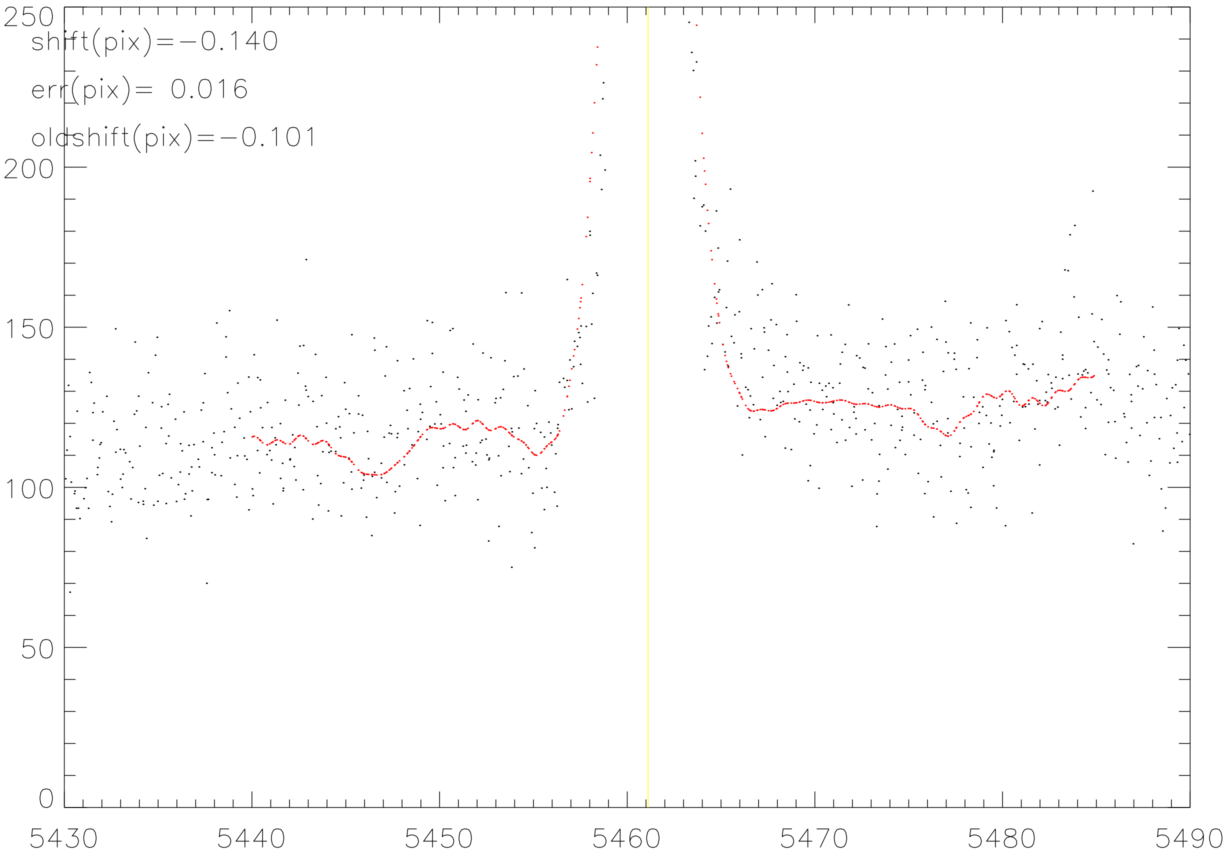

5577.3390
off: −0.10
sig: 0.003
8000
6000
4000
2000
0
−2000
−4
−2
0
2
4

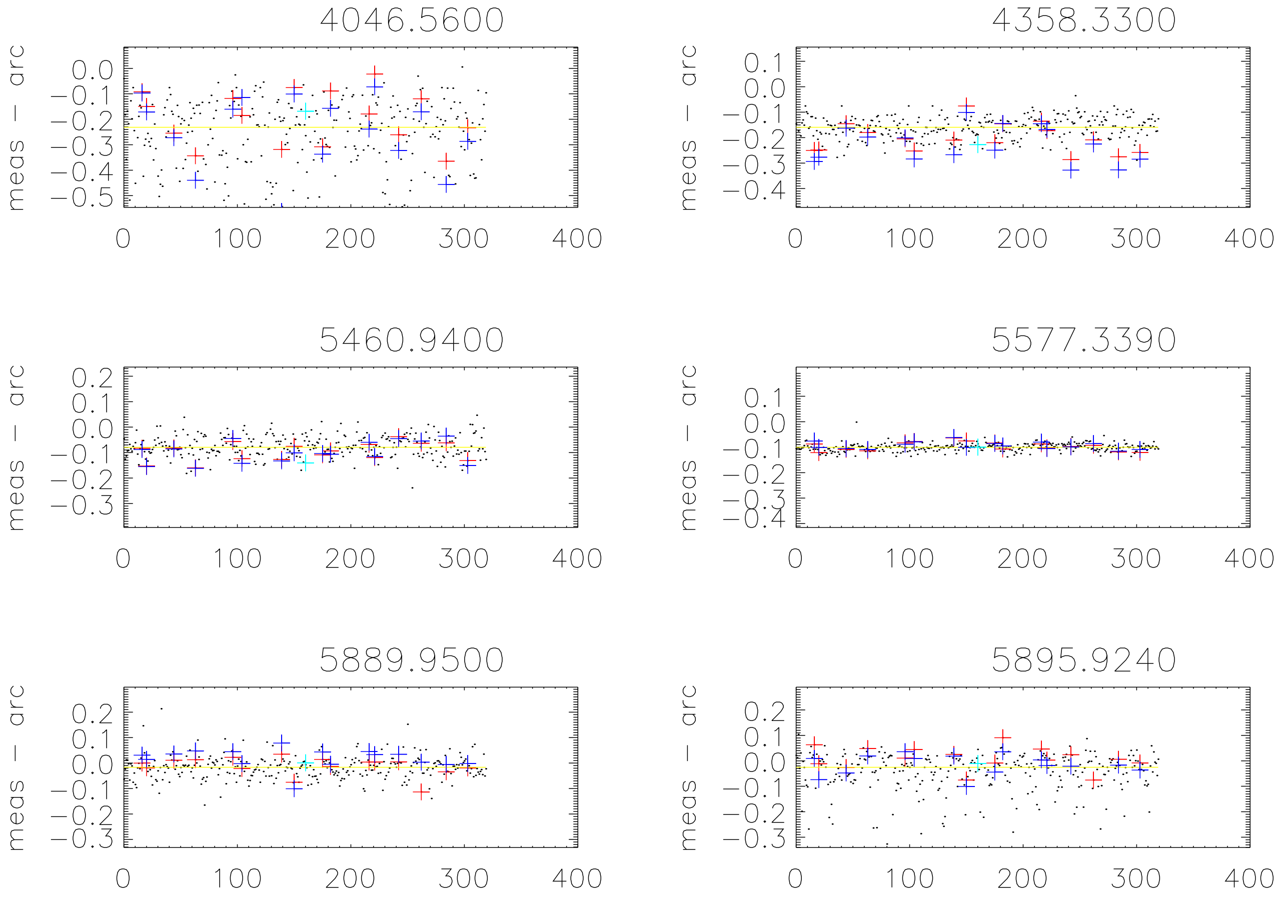

5889.9500
off: 0.02
sig: 0.006
2000
1500
1000
500
0
−500
−4
−2
0
2
4

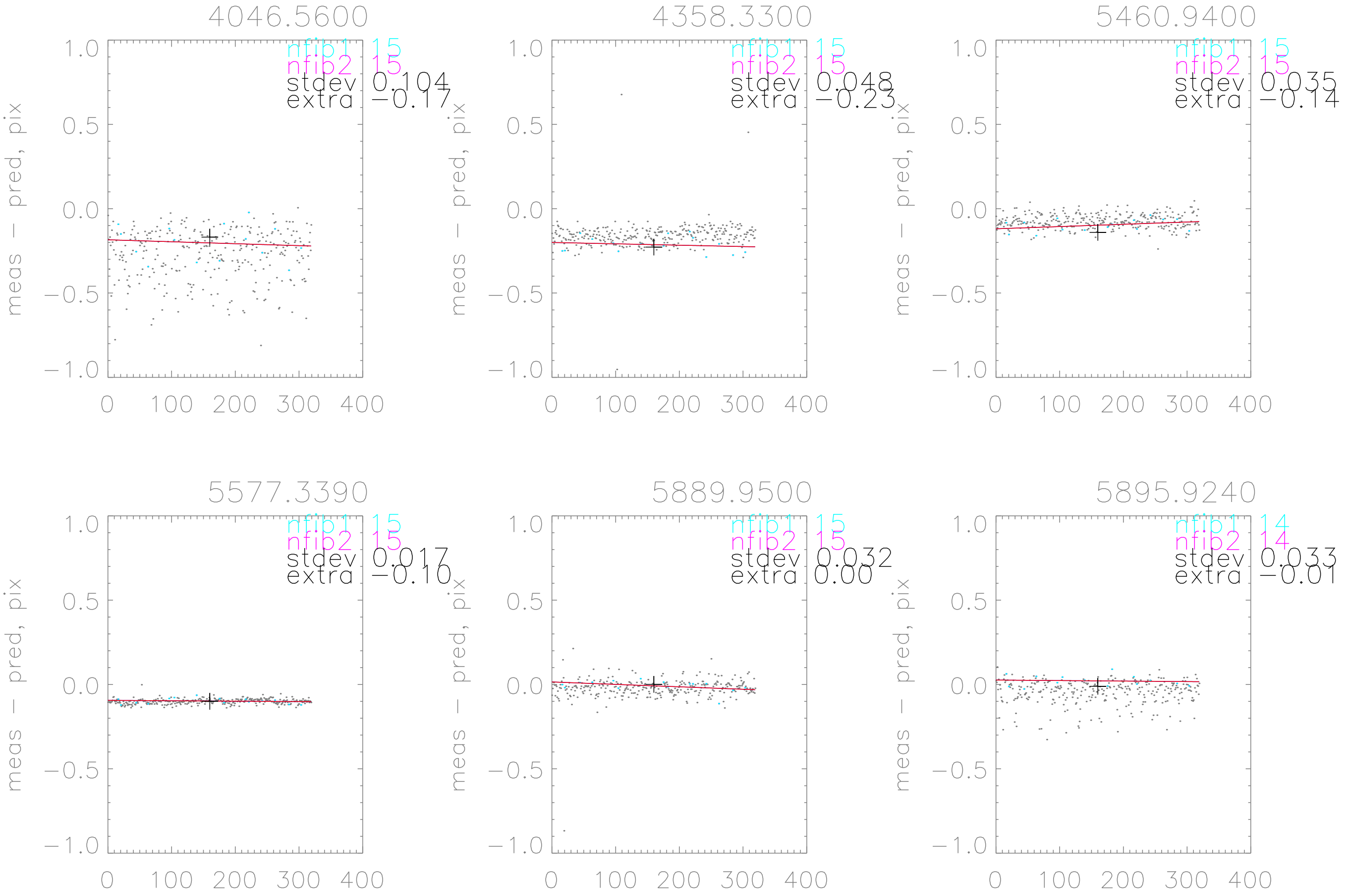

5895.9240
off: −0.01
sig: 0.008
1500
1000
500
0
−500
−4
−2
0
2
4

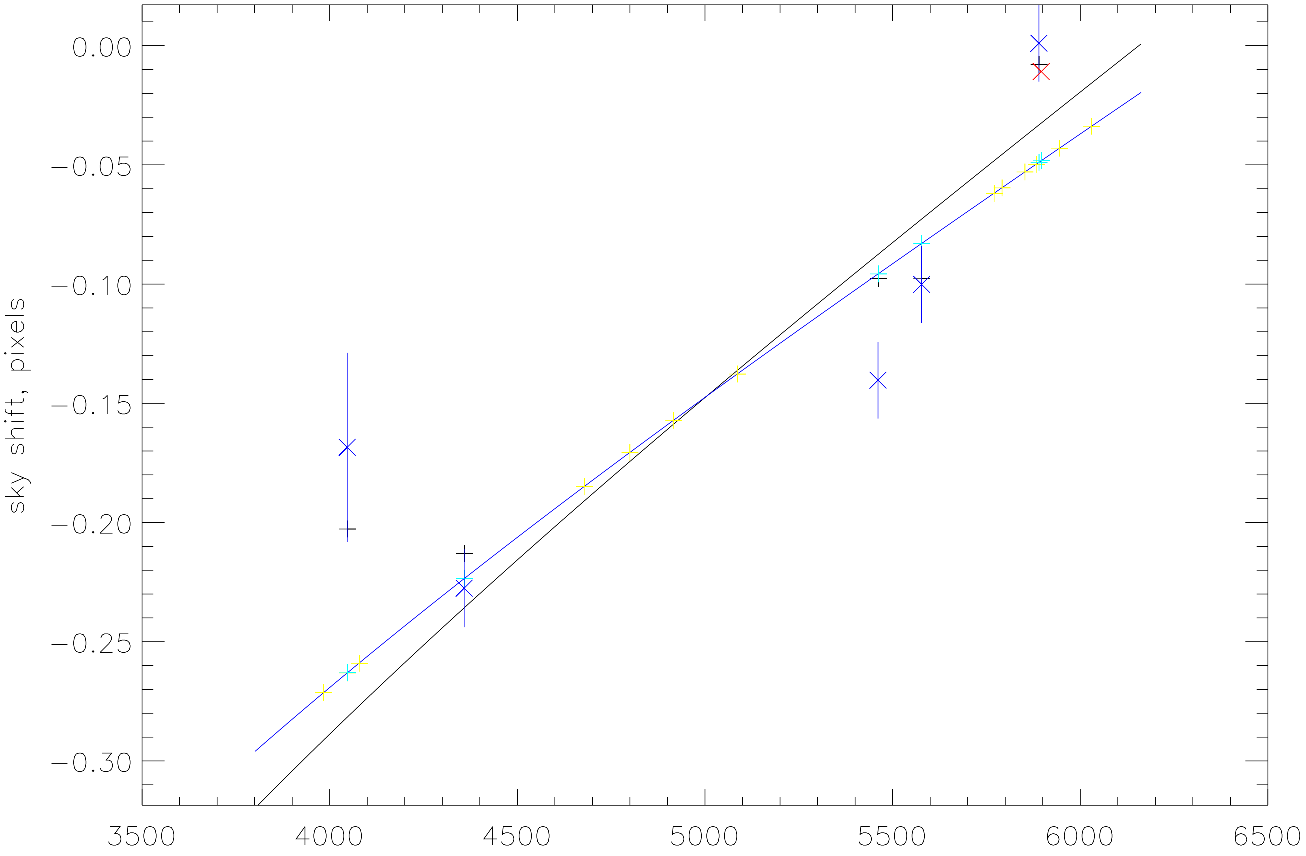

shift(pix)=−0.168
err(pix)= 0.040
oldshift(pix)=−0.266
0
50
100
150
200
250
4020
4030
4040
4050
4060
4070
4080

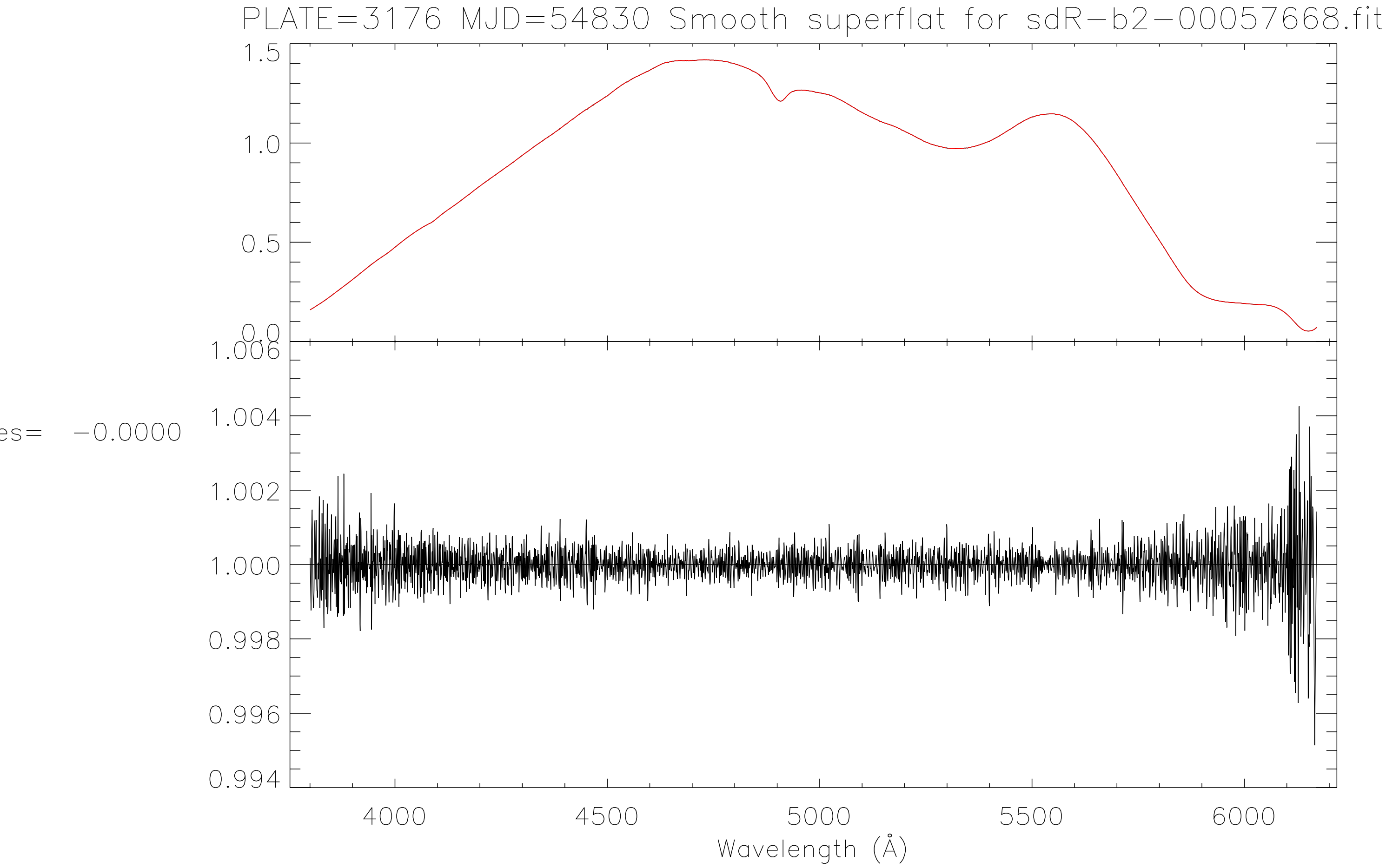

shift(pix)=−0.228
err(pix)= 0.016
oldshift(pix)=−0.230
0
50
100
150
200
250
4280
4300
4320
4340
4360
4380
4400
4420

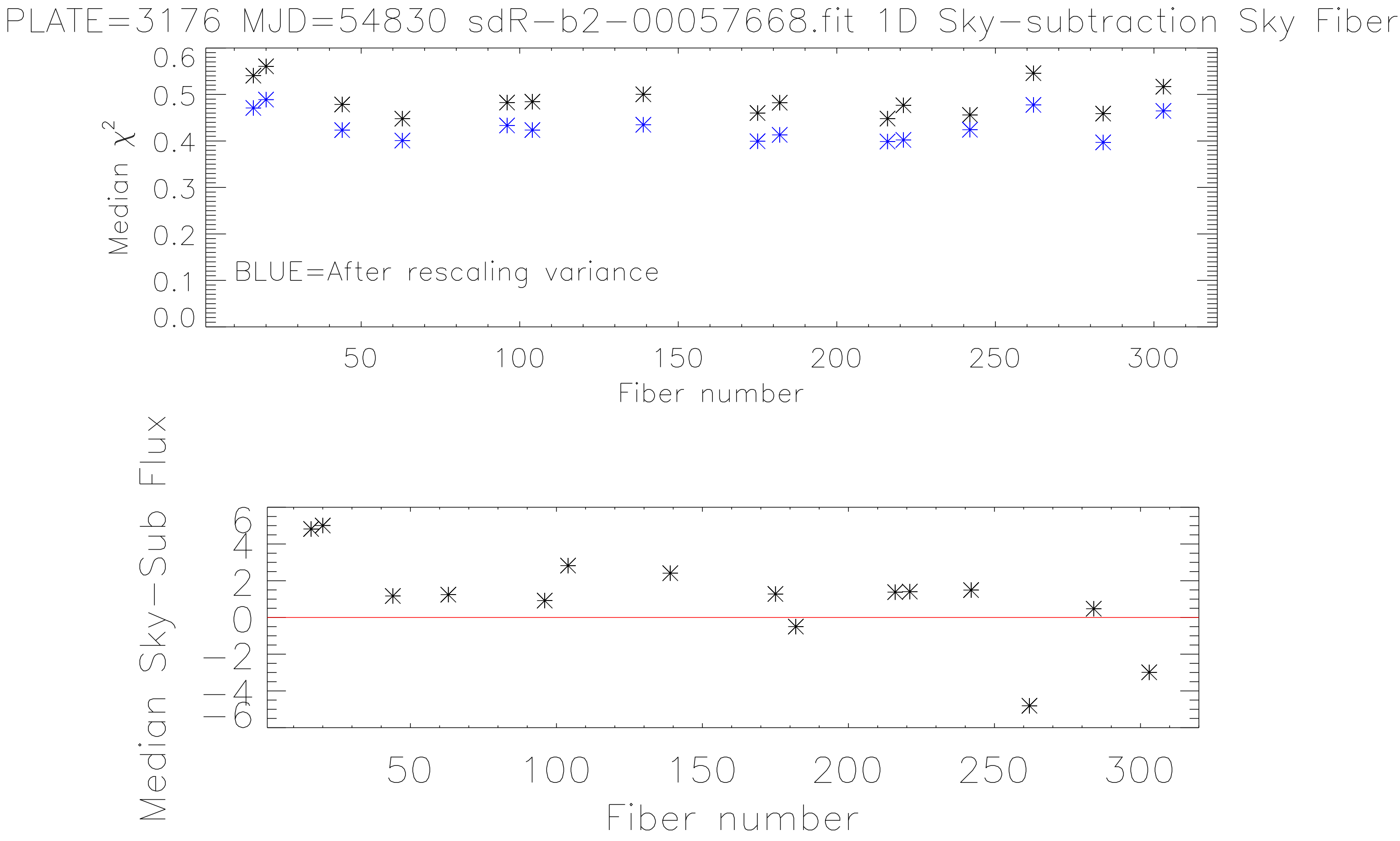

shift(pix)=−0.140
err(pix)= 0.016
oldshift(pix)=−0.101
250
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

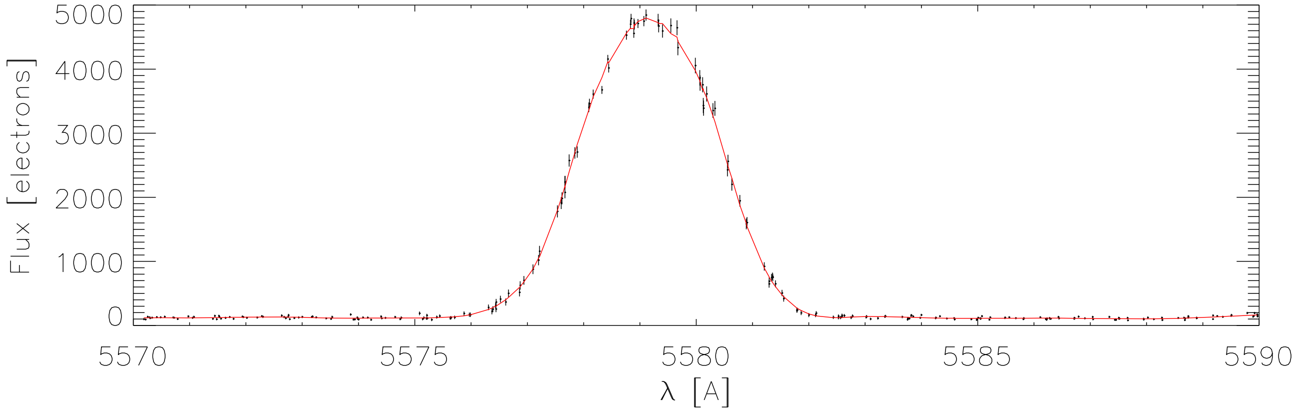

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400
4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400
5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400
5577.3390
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400
5889.9500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400
5895.9240
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


4046.5600
nfib1 15
nfib2 15
stdev 0.104
extra −0.17
4358.3300
nfib1 15
nfib2 15
stdev 0.048
extra −0.23
5460.9400
nfib1 15
nfib2 15
stdev 0.035
extra −0.14
5577.3390
nfib1 15
nfib2 15
stdev 0.017
extra −0.10
5889.9500
nfib1 15
nfib2 15
stdev 0.032
extra 0.00
5895.9240
nfib1 14
nfib2 14
stdev 0.033
extra −0.01
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

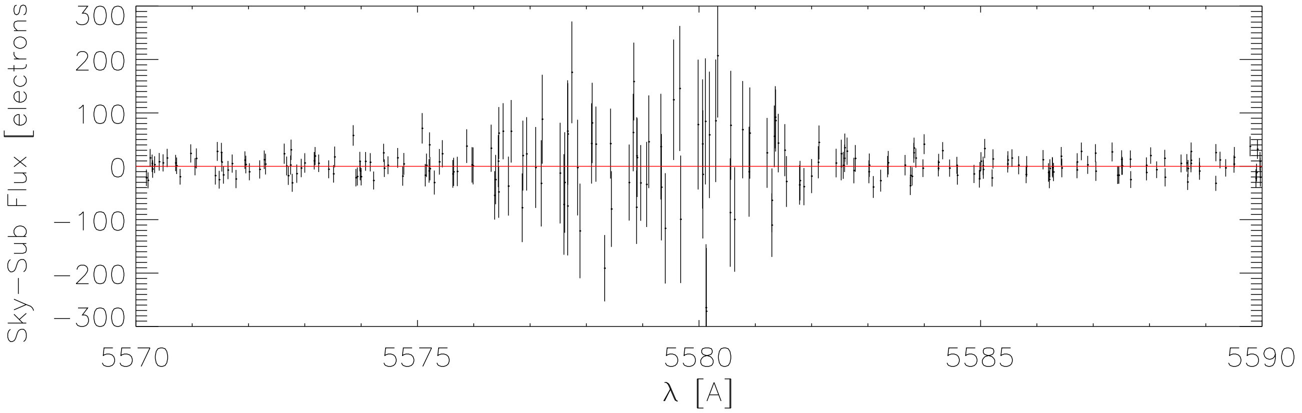

sky shift, pixels
0.00
−0.05
−0.10
−0.15
−0.20
−0.25
−0.30
3500
4000
4500
5000
5500
6000
6500


PLATE=3176 MJD=54830 Smooth superflat for sdR-b2-00057668.fit
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)


PLATE=3176 MJD=54830 sdR-b2-00057668.fit 1D Sky-subtraction Sky Fiber



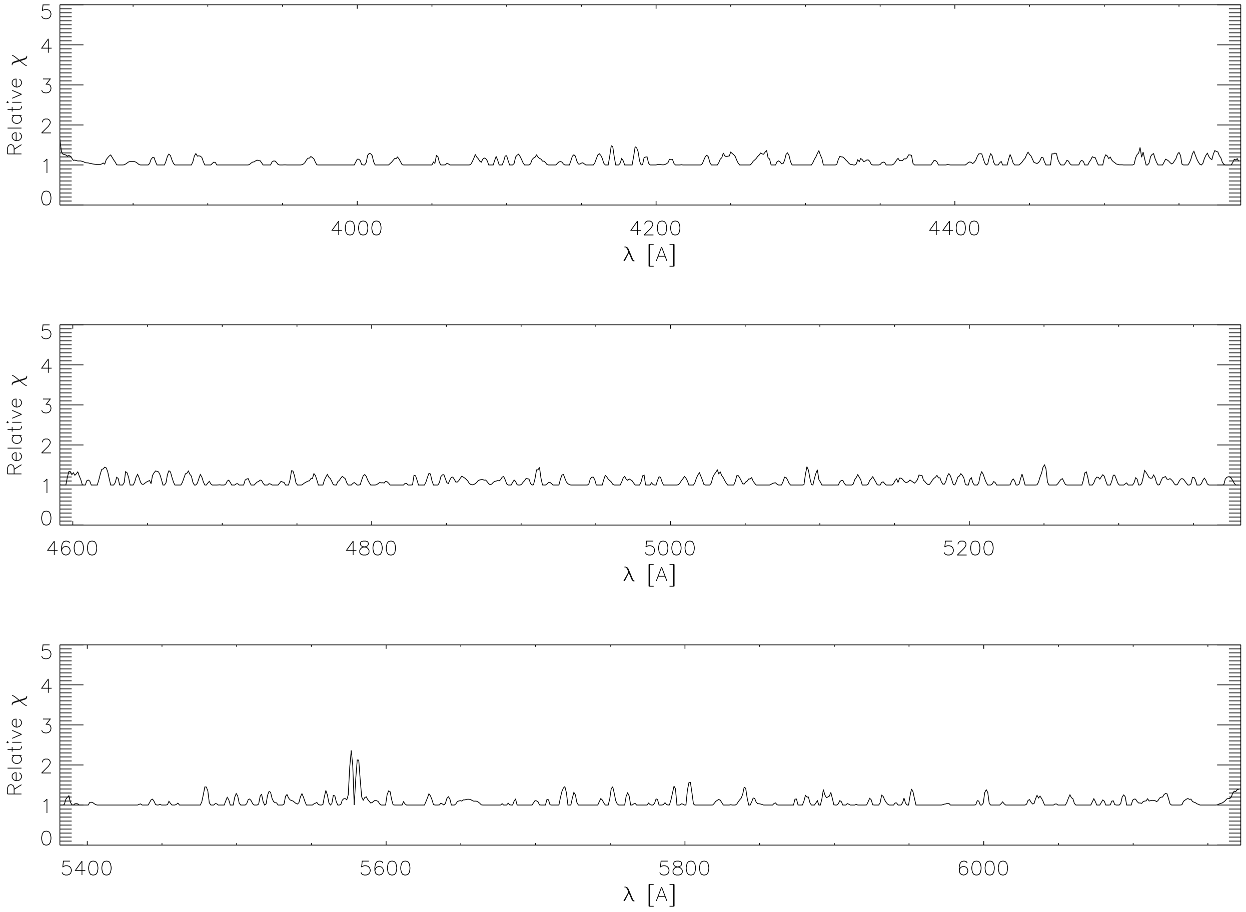
PLATE=3176 MJD=54830 sdR-b2-00057668.fit 1D Sky-subtraction Sky Fibers

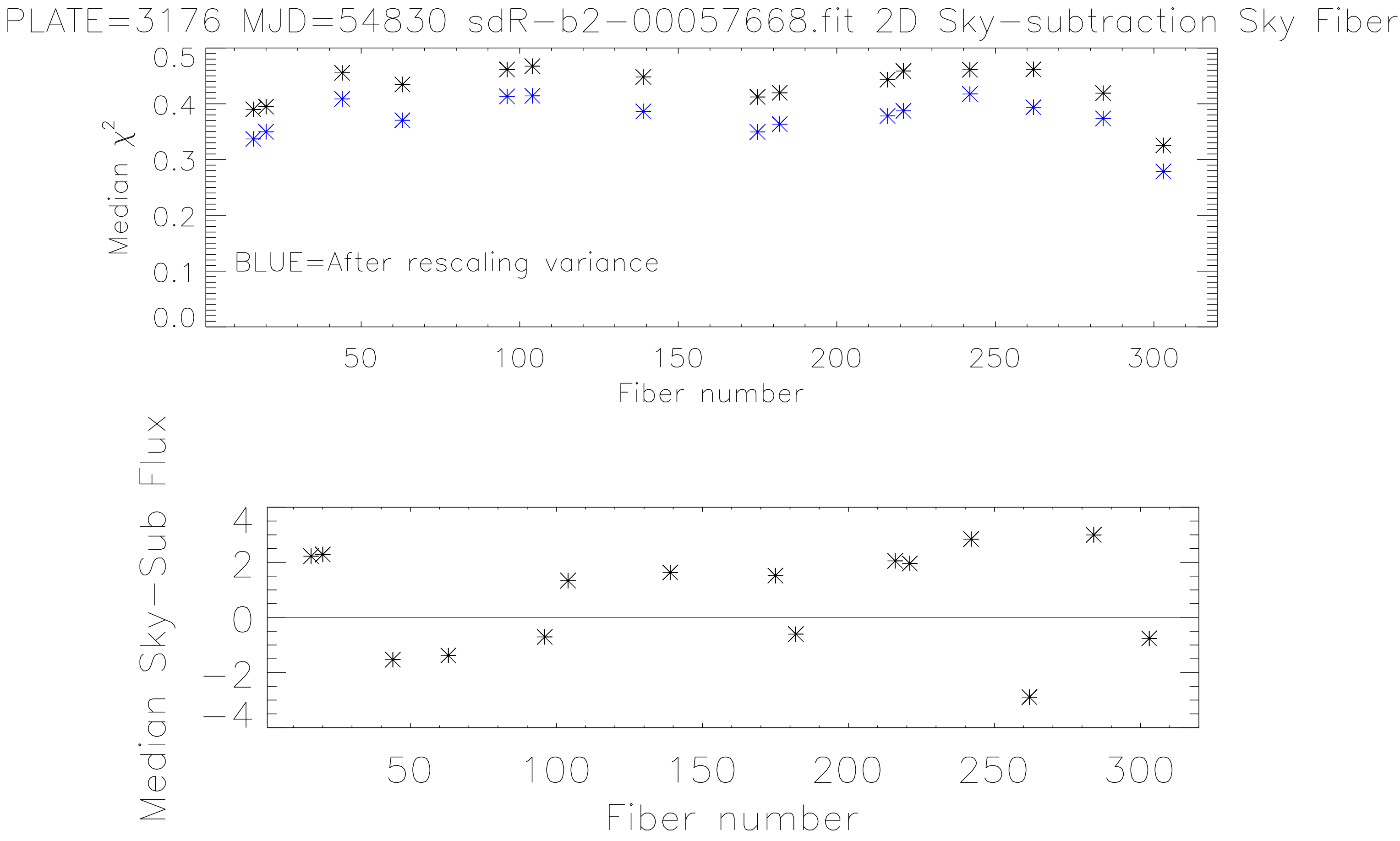


PLATE=3176 MJD=54830 sdR-b2-00057668.fit 1D Sky-subtraction Sky-subtracted Sky F

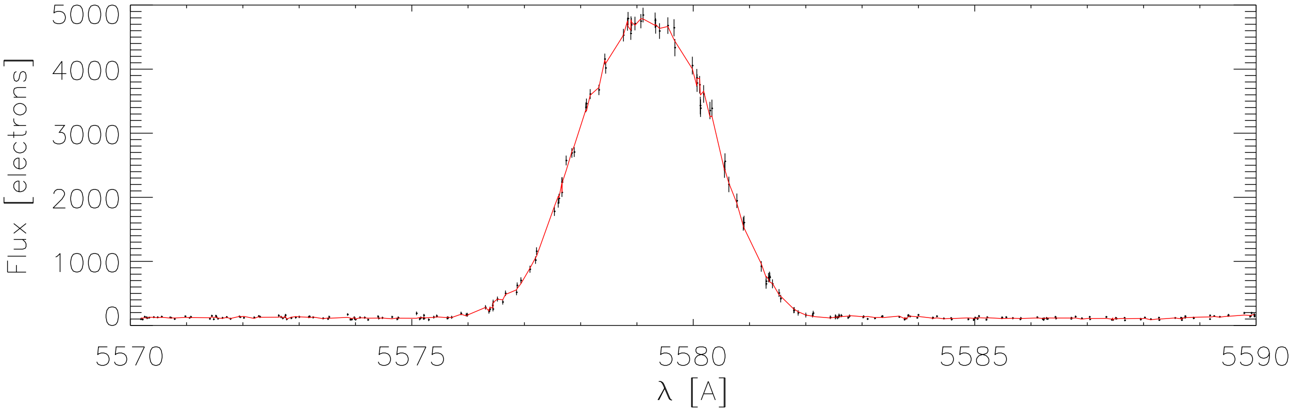
Number of sky fibers = 15

PLATE=3176 MJD=54830 sdR-b2-00057668.fit 1D Sky-subtraction Rescaled Errors

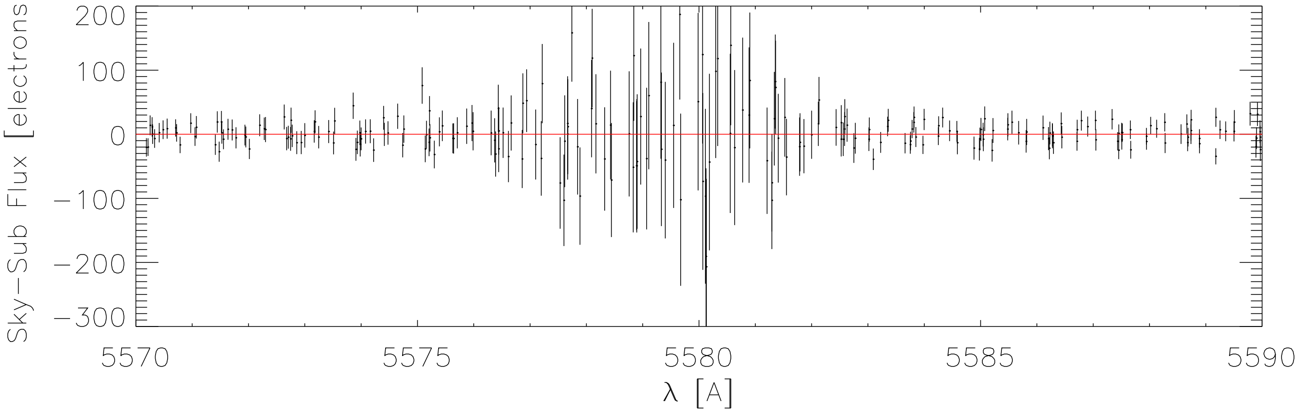



PLATE=3176 MJD=54830 sdR-b2-00057668.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
50
100
150
200
250
300
Fiber number

PLATE=3176 MJD=54830 sdR-b2-00057668.fit 2D Sky-subtraction Sky Fibers

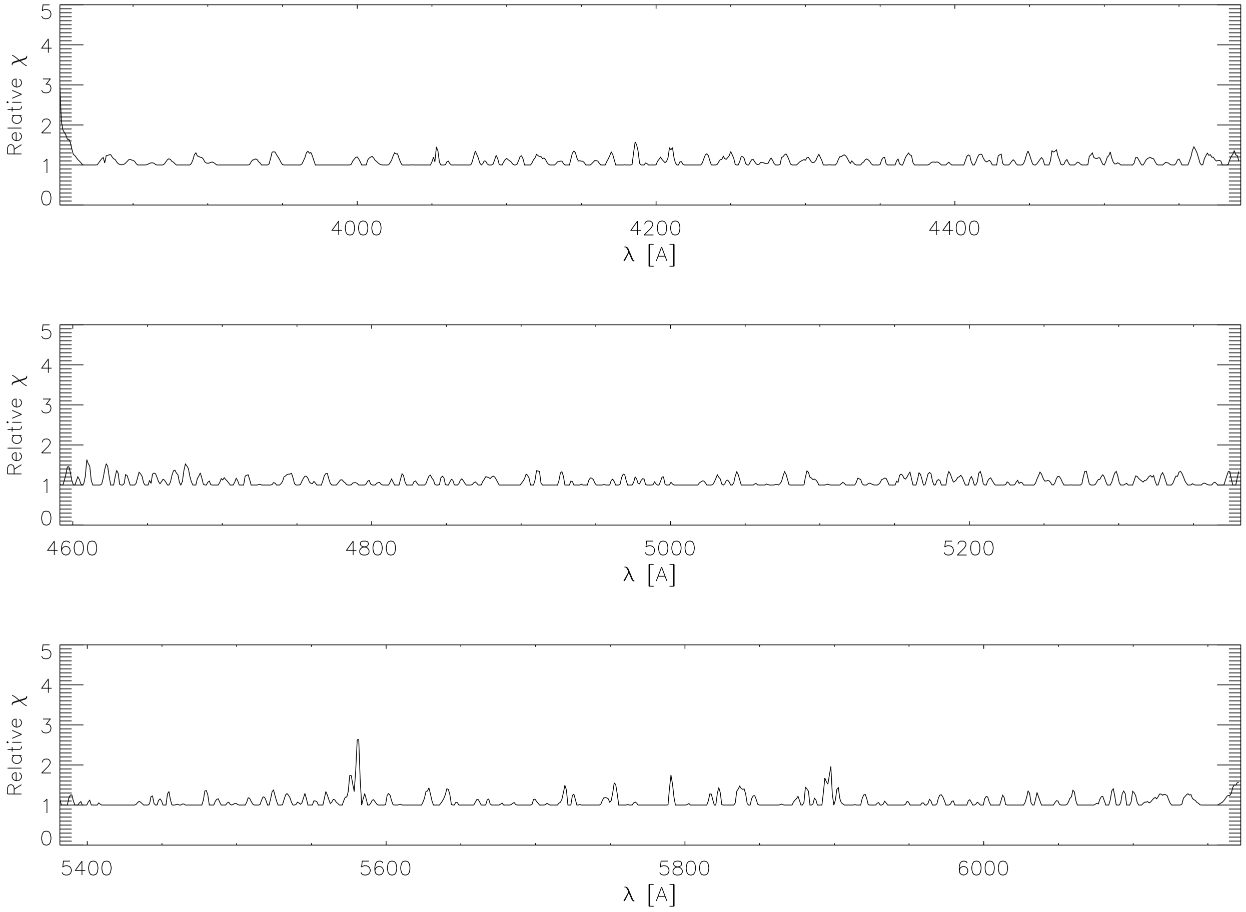


PLATE=3176 MJD=54830 sdR-b2-00057668.fit 2D Sky-subtraction Sky-subtracted Sky F

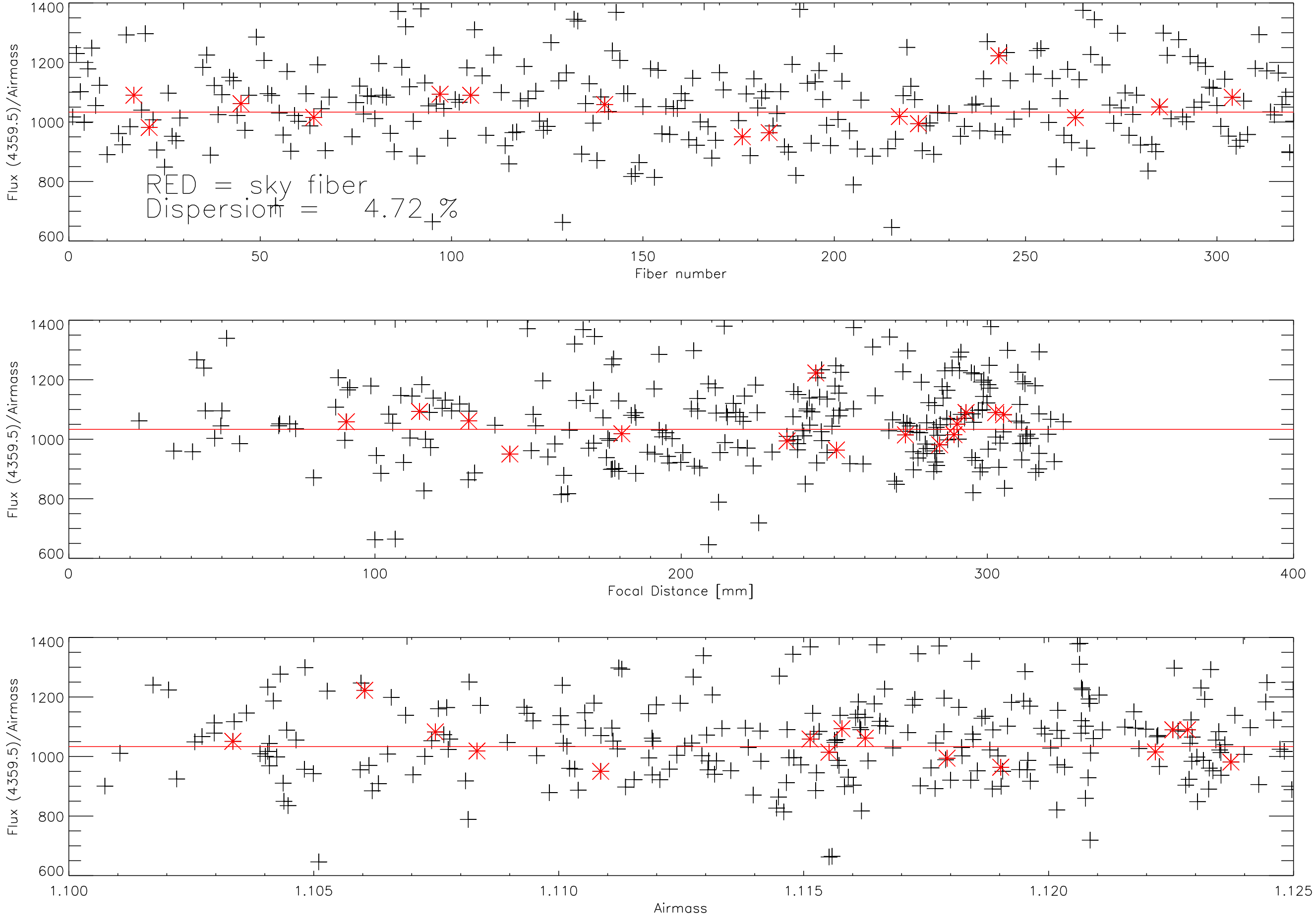


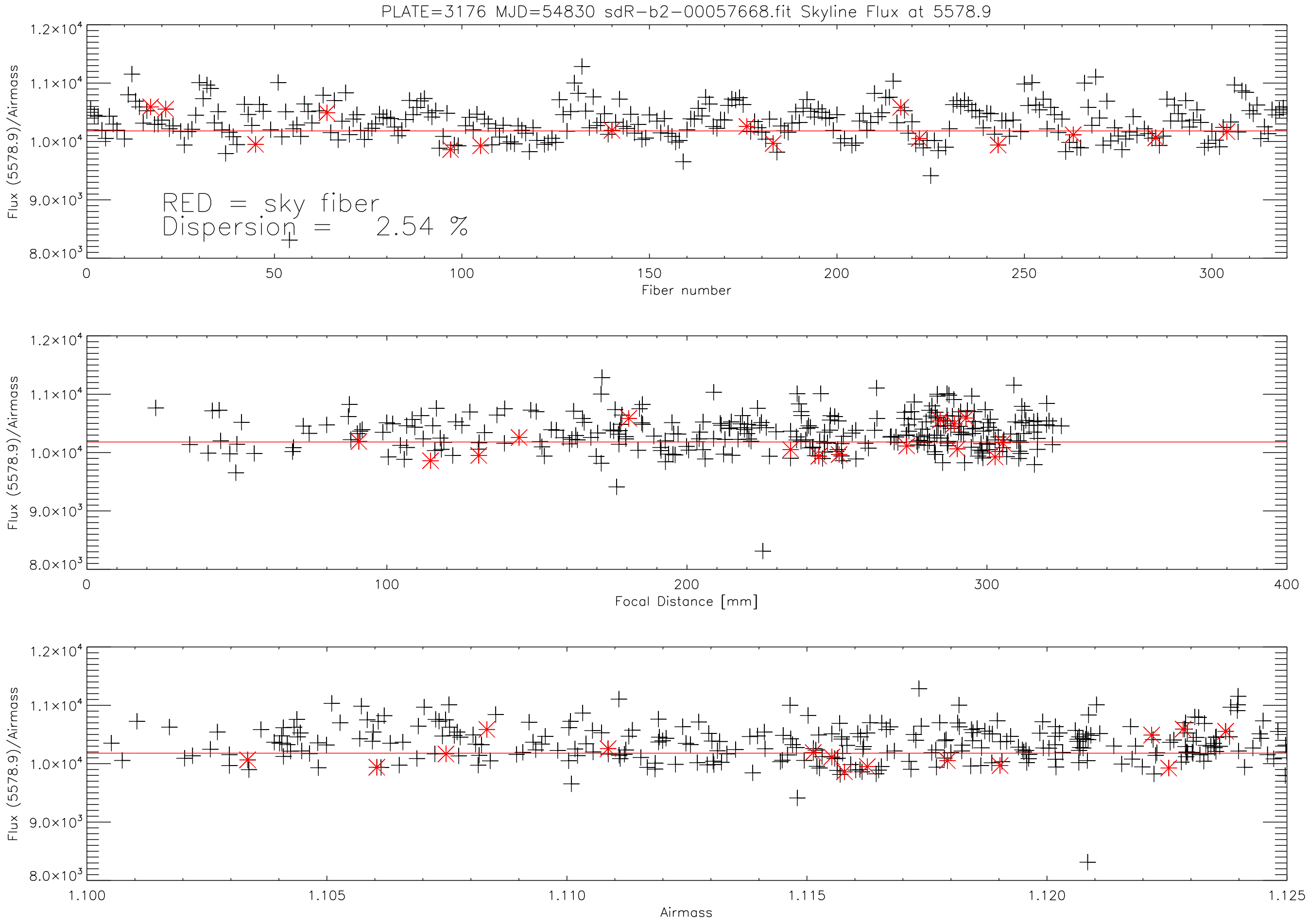
Number of sky fibers = 15

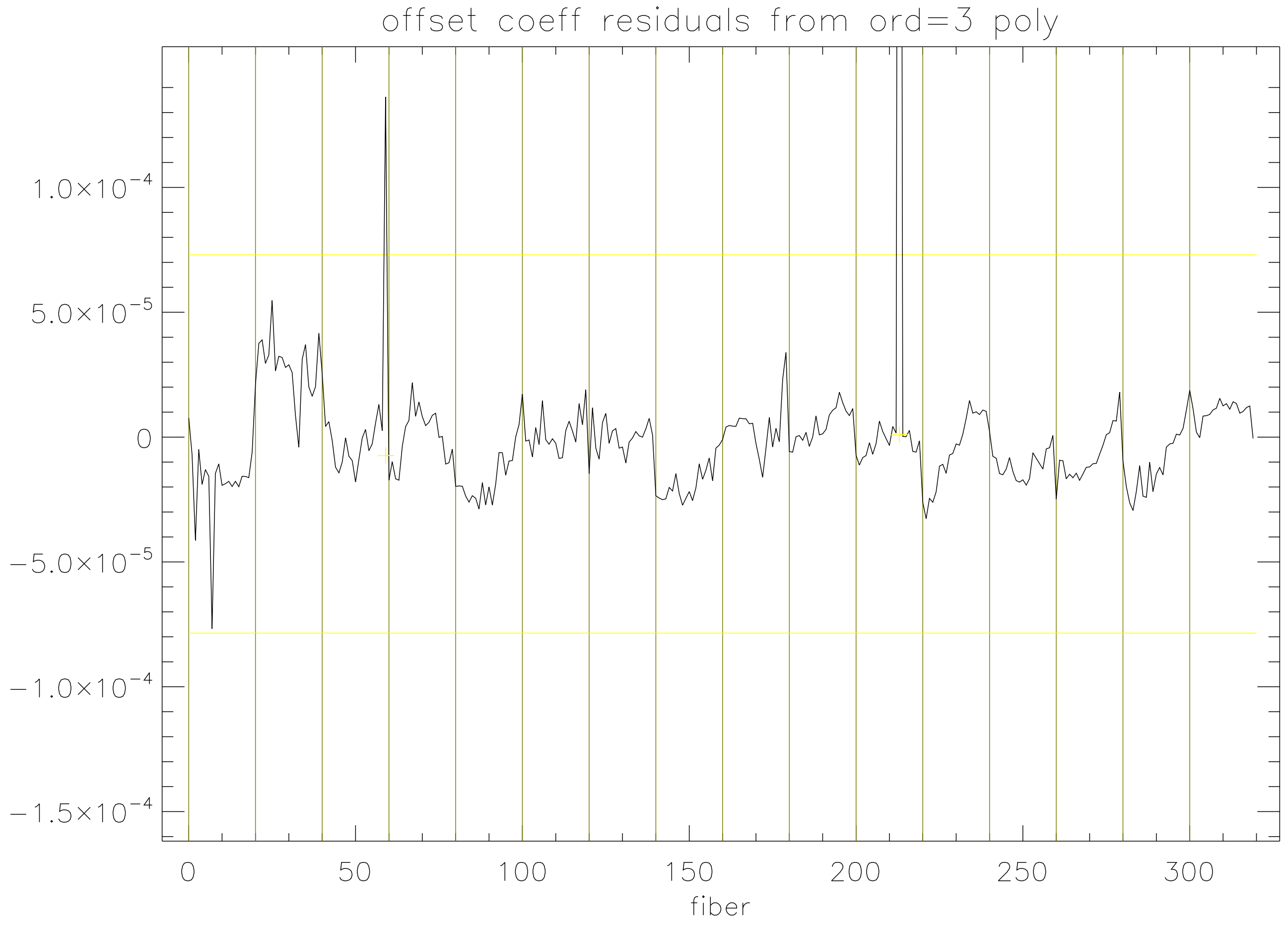
PLATE=3176 MJD=54830 sdR-b2-00057668.fit 2D Sky-subtraction Rescaled Errors

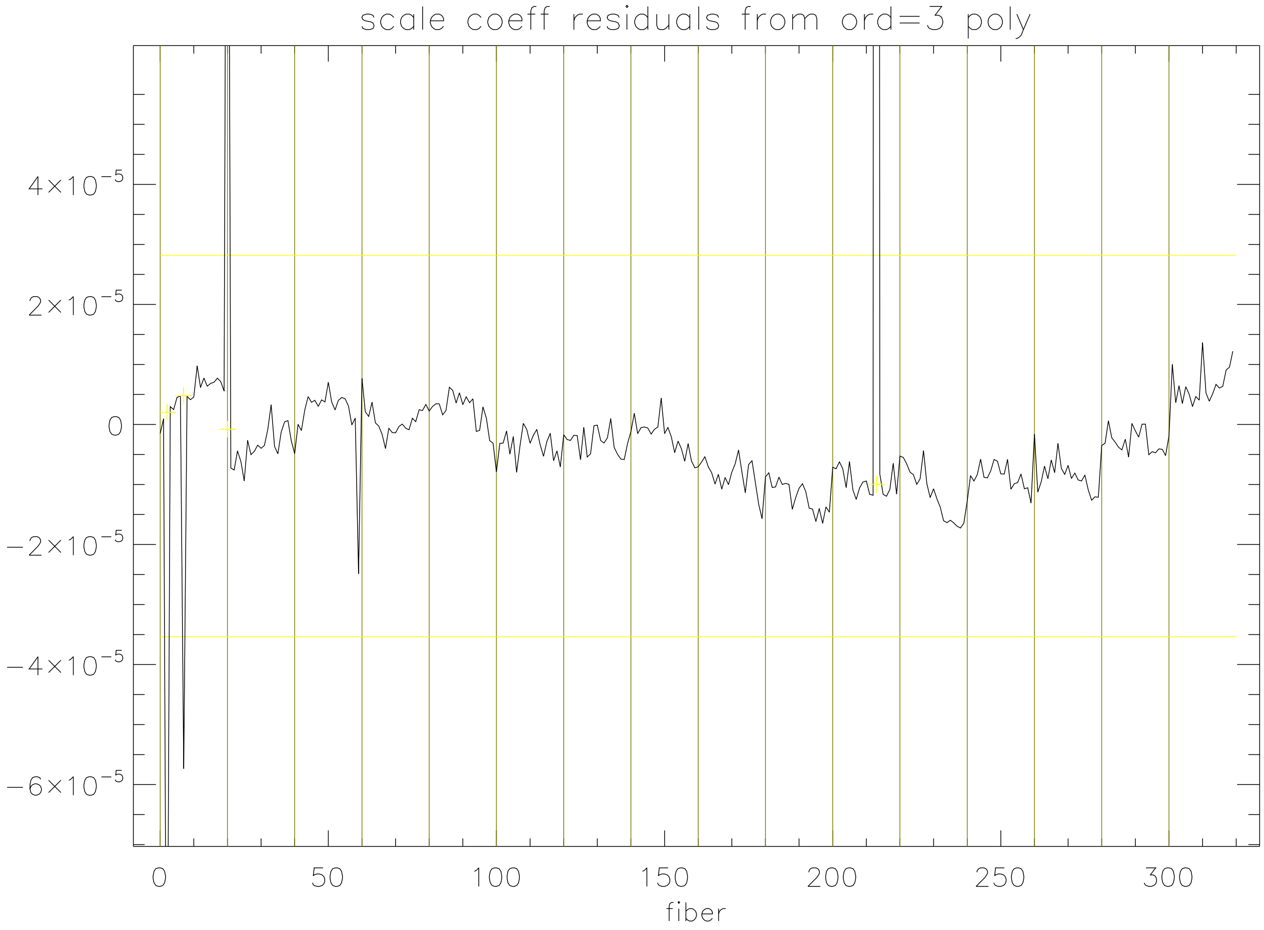


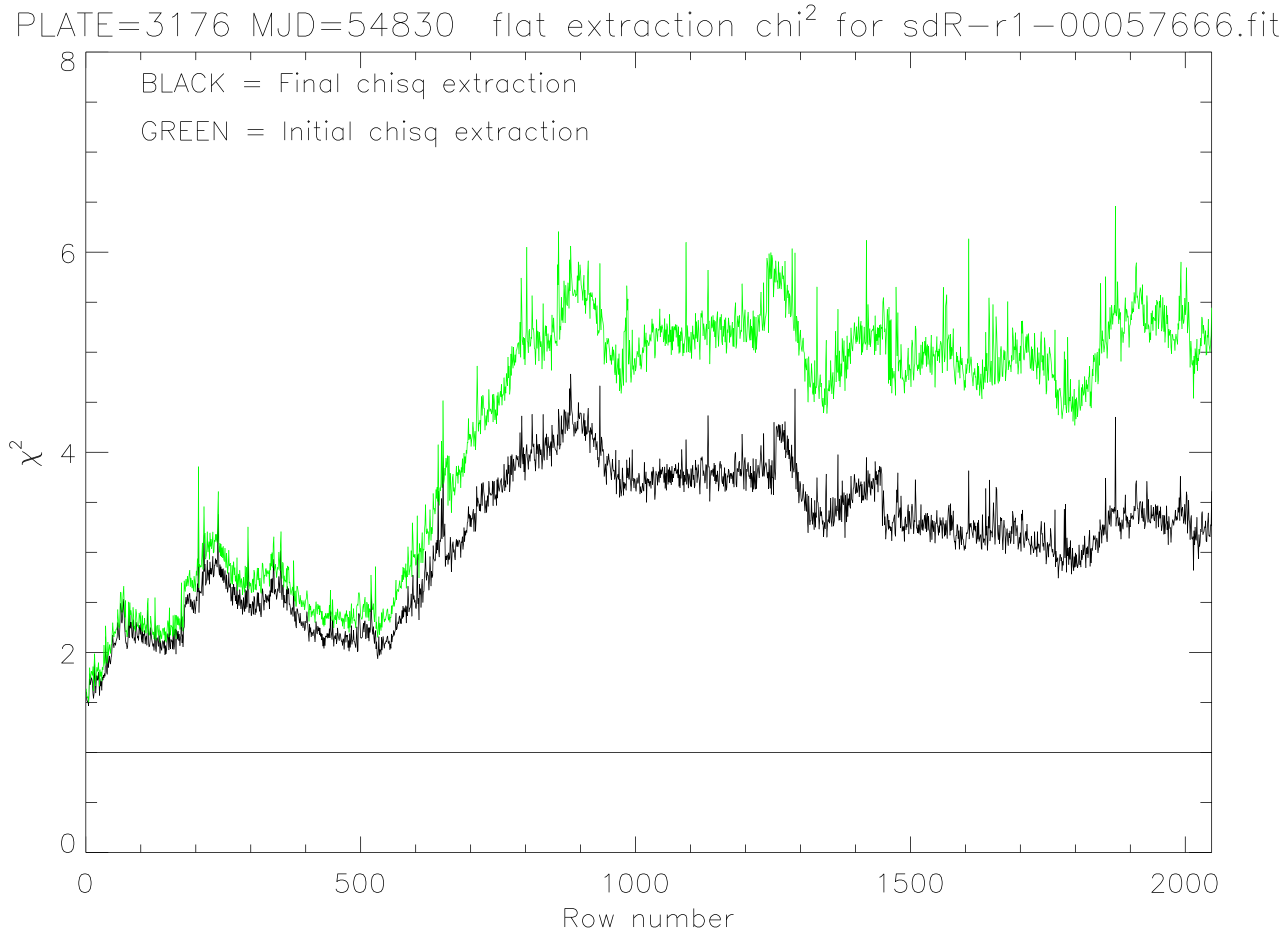
PLATE=3176 MJD=54830 sdR-b2-00057668.fit Skyline Flux at 4359.5

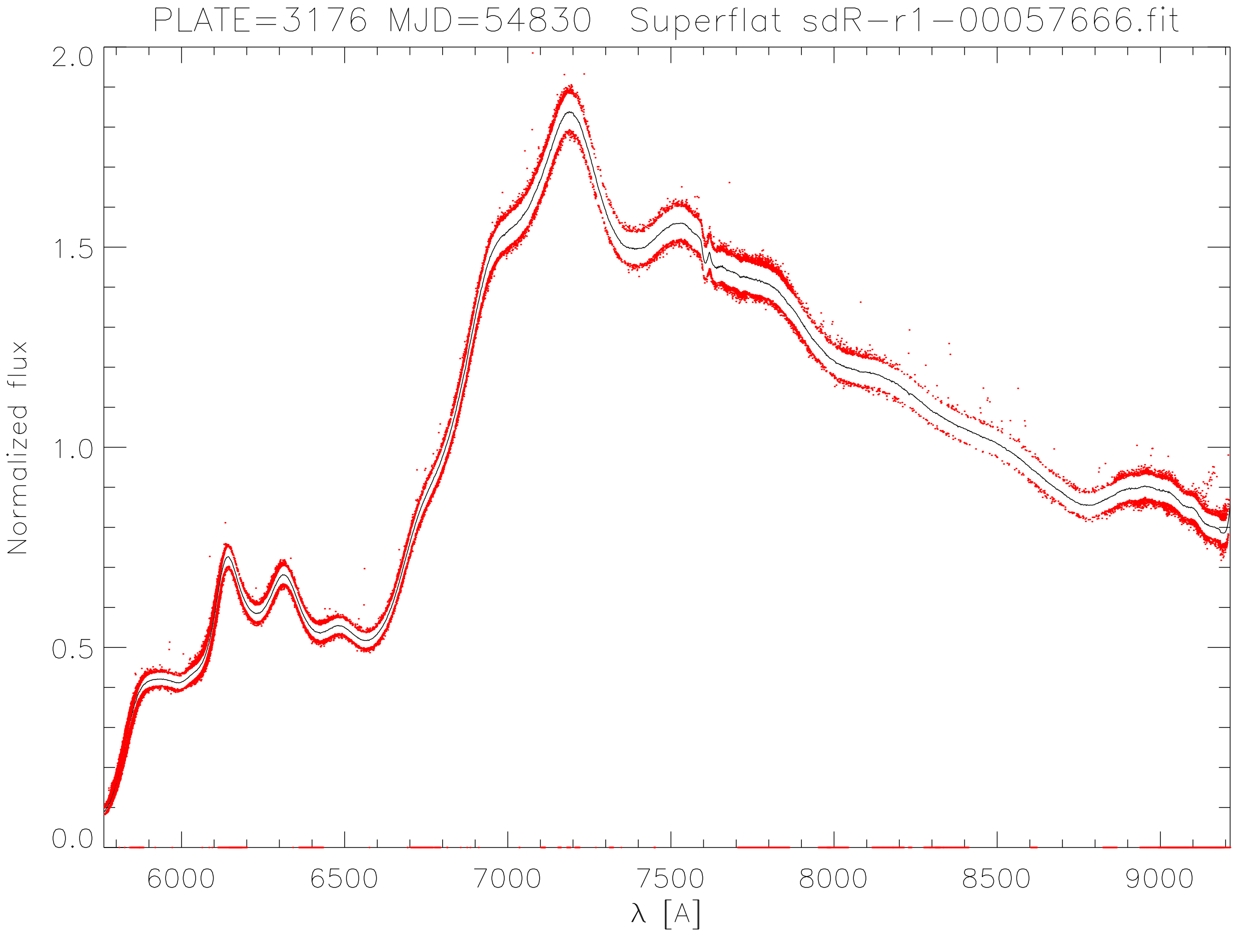


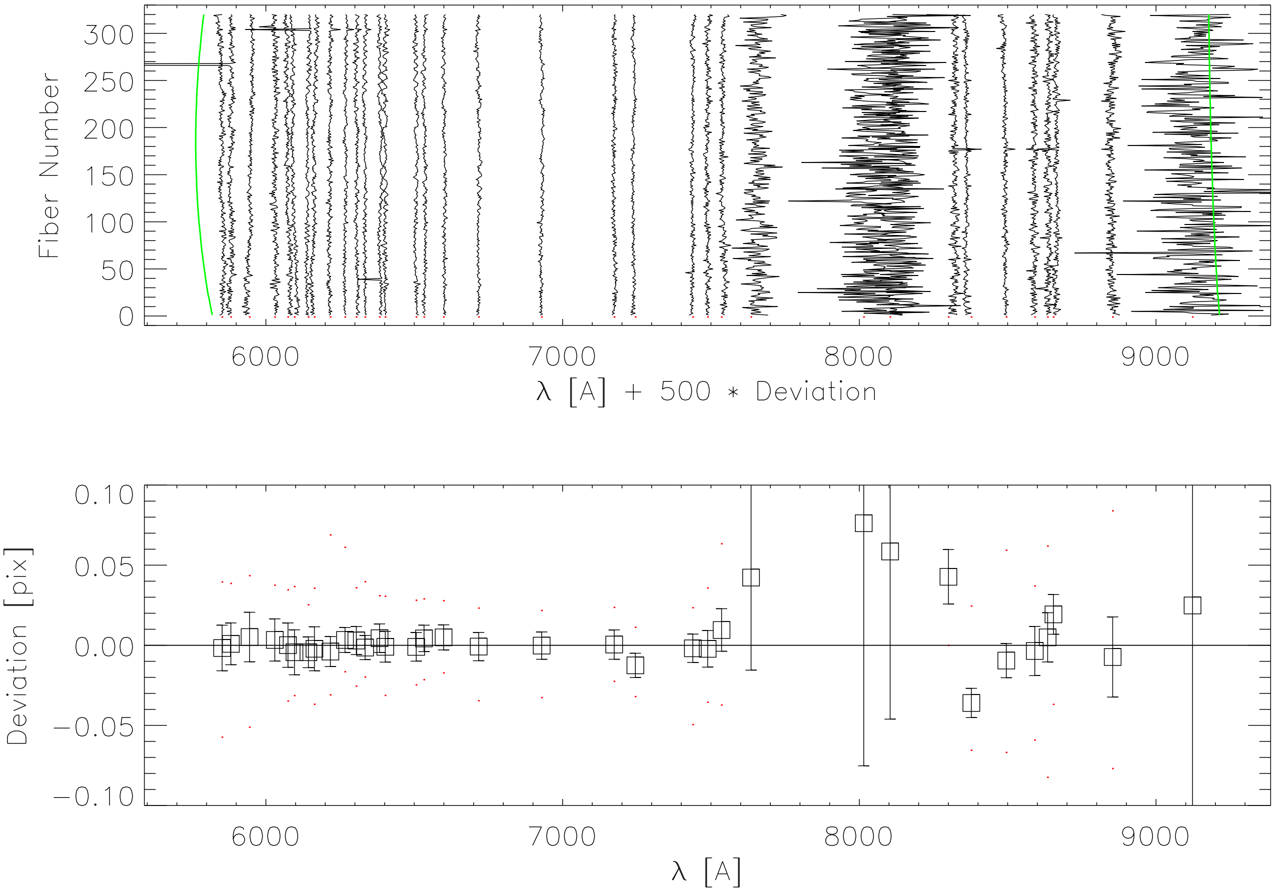

PLATE=3176 MJD=54830 sdR-b2-00057668.fit Skyline Flux at 5578.9
RED = sky fiber
Dispersion = 2.54 %
Flux (5578.9)/Airmass
1.2×10^4
1.1×10^4
1.0×10^4
9.0×10^3
8.0×10^3
0
50
100
150
200
250
300
Fiber number
0
100
200
300
400
Focal Distance [mm]
1.100
1.105
1.110
1.115
1.120
1.125
Airmass


offset coeff residuals from ord=3 poly
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}
−6×10^{-5}
0
50
100
150
200
250
300
fiber

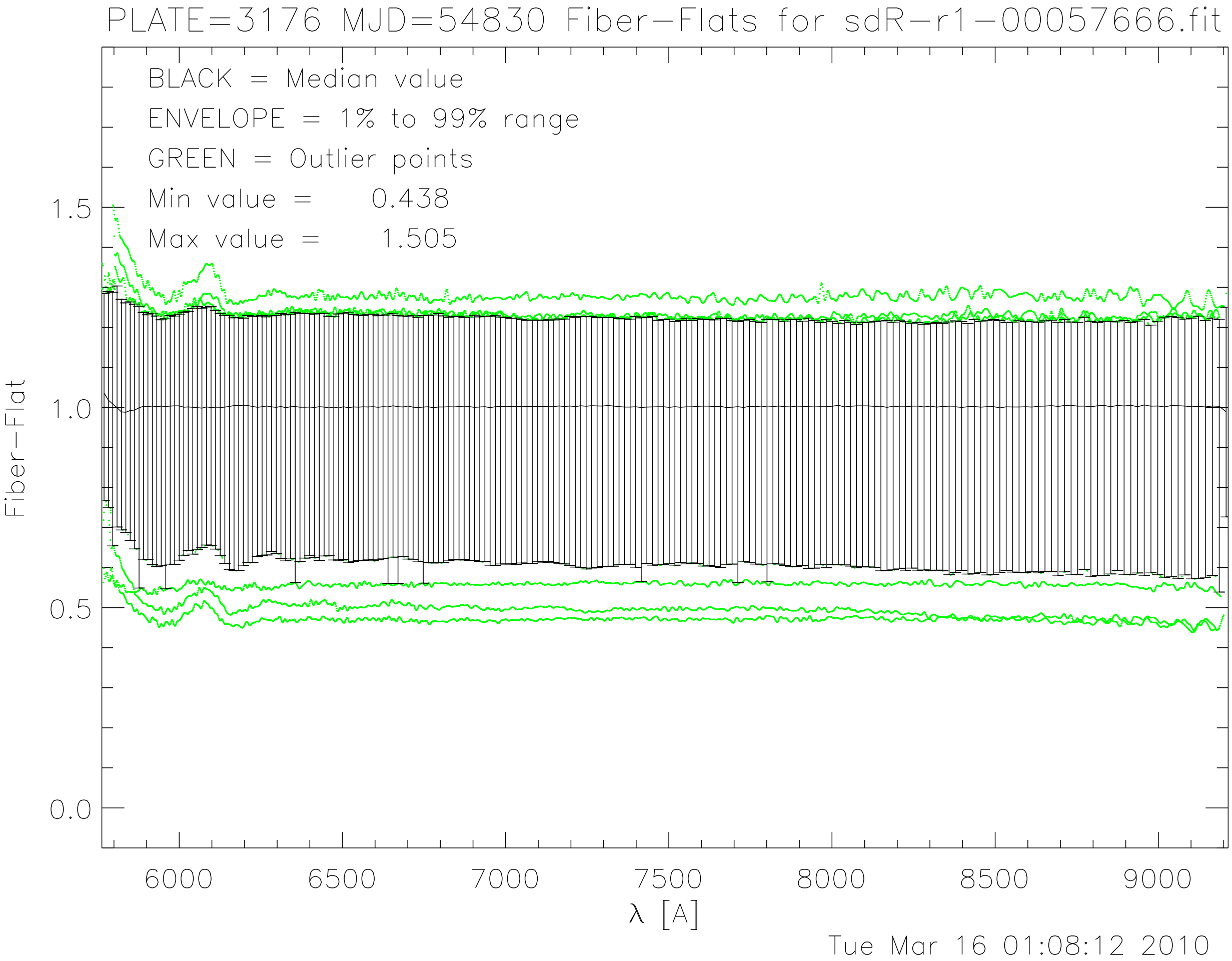

PLATE=3176 MJD=54830 flat extraction chi^2 for sdR-r1-00057666.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number


PLATE=3176 MJD=54830 Superflat sdR-r1-00057666.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

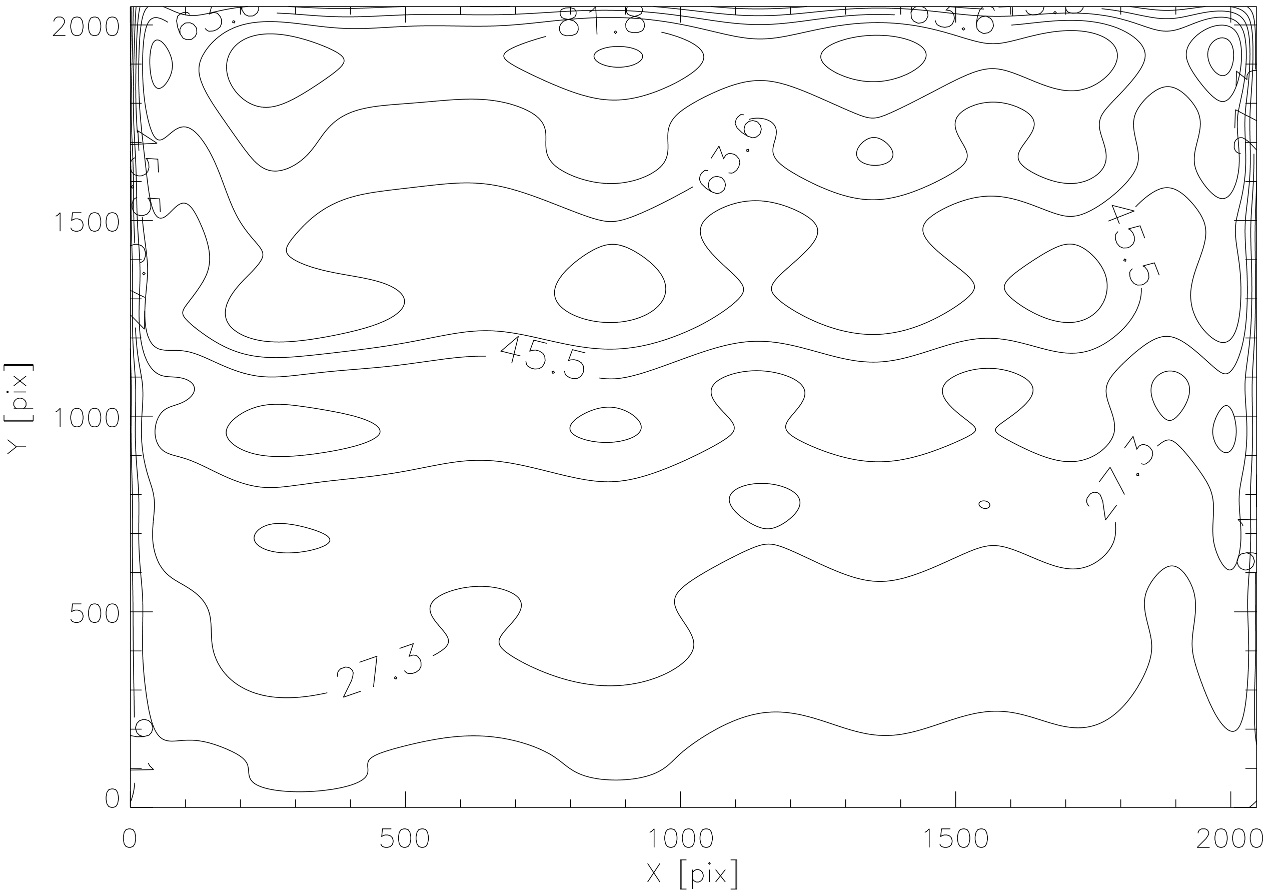


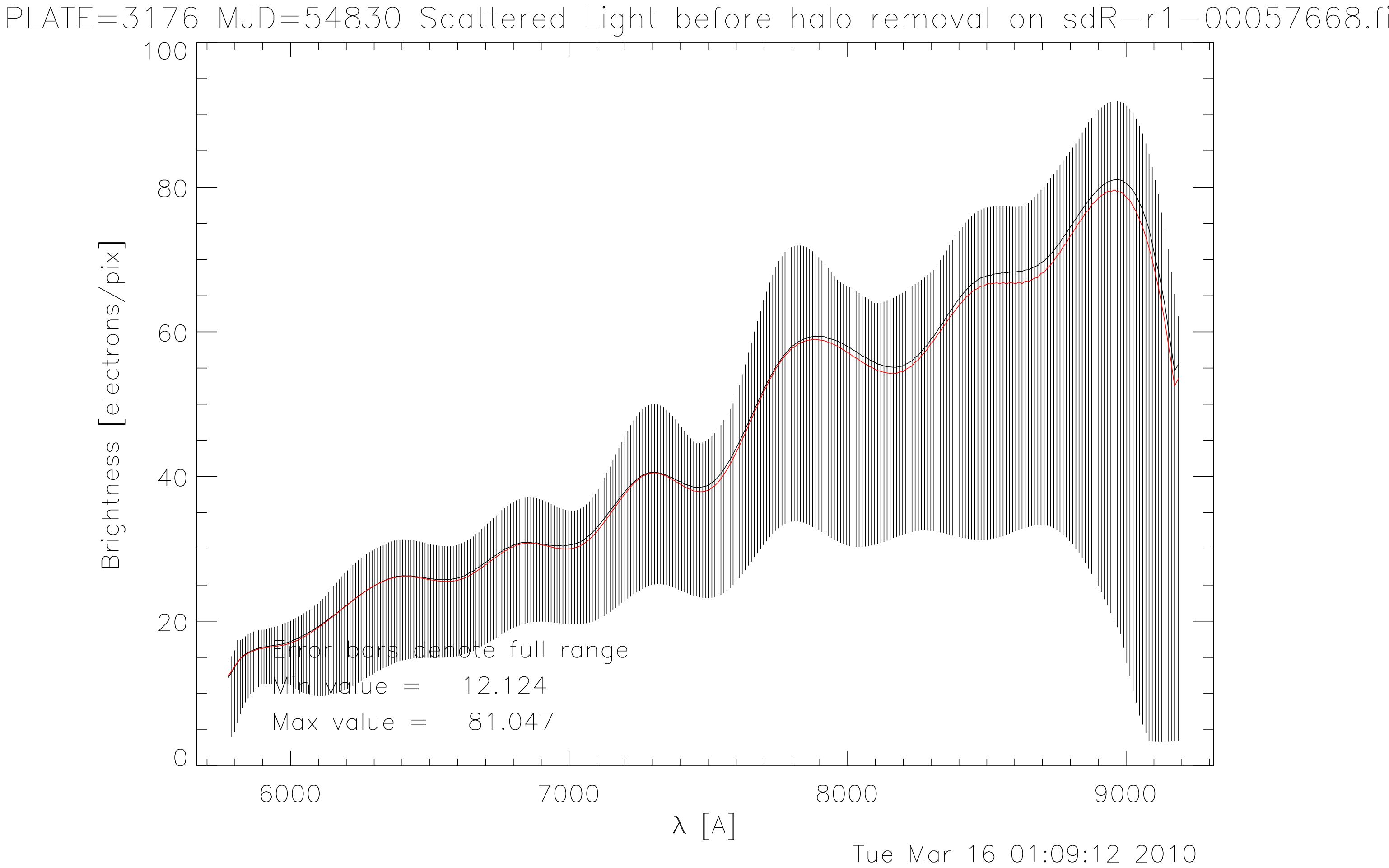
PLATE=3176 MJD=54830 Arcline Fit for sdR-r1-00057667.fit

Tue Mar 16 01:08:01 2010

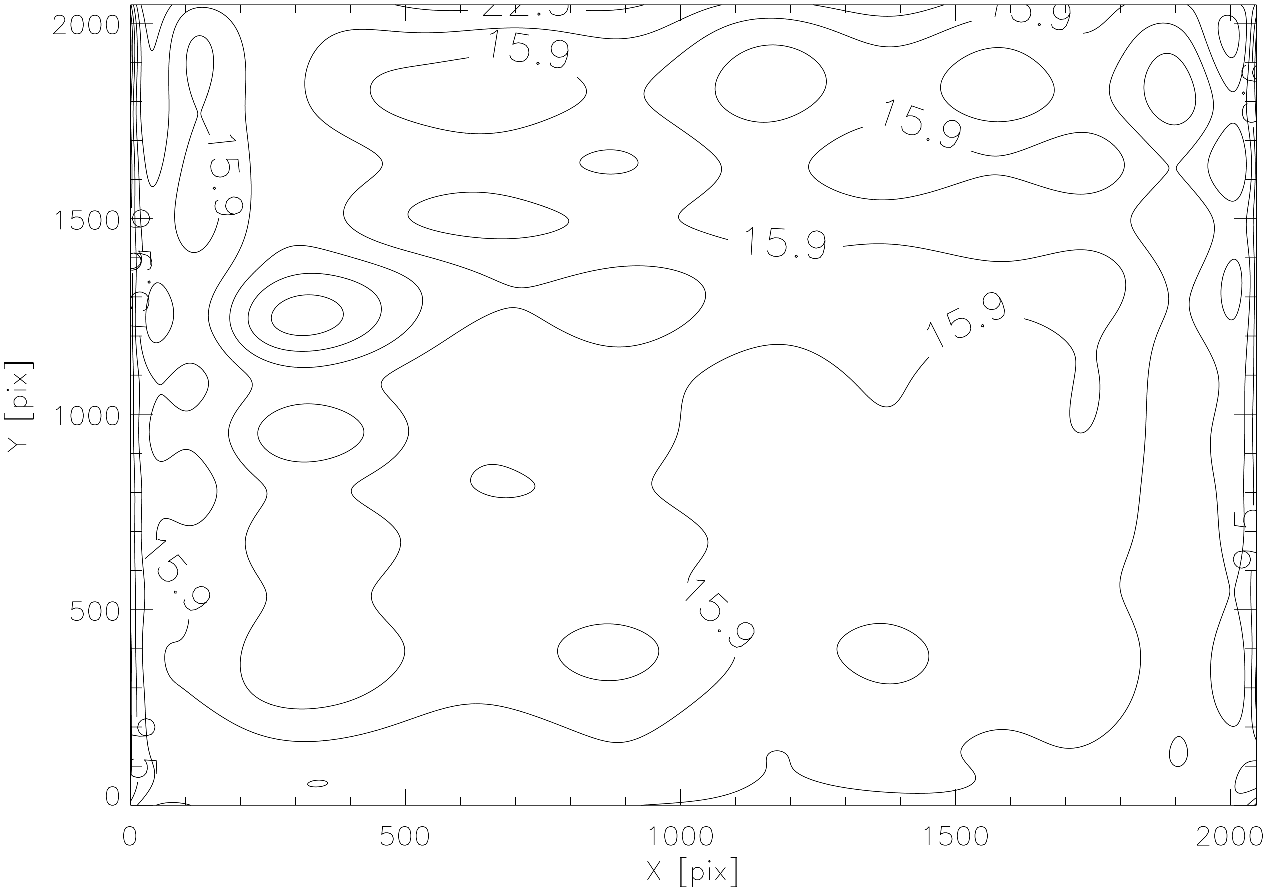

PLATE=3176 MJD=54830 Fiber−Flats for sdR−r1−00057666.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.438
Max value = 1.505
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Tue Mar 16 01:08:12 2010

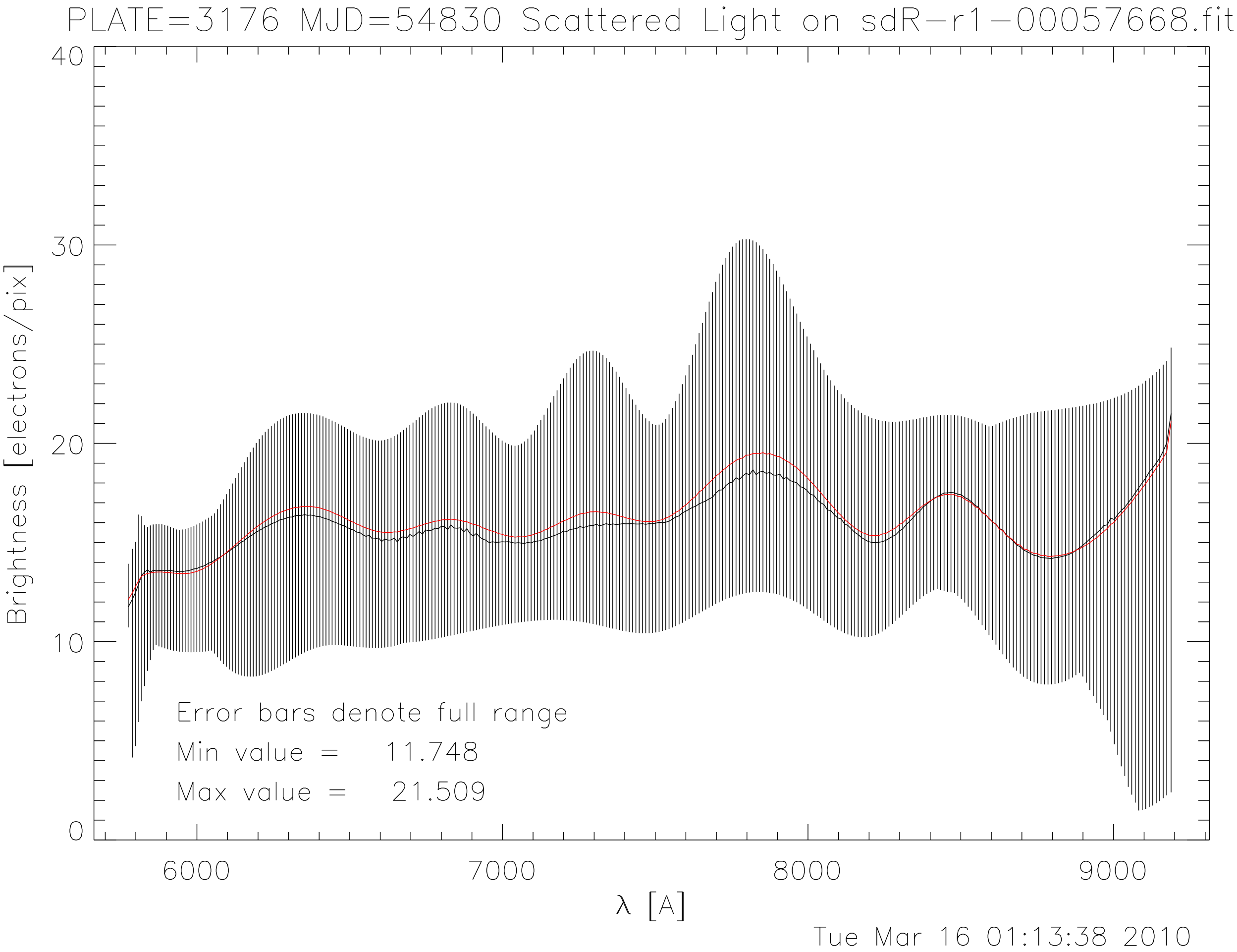
PLATE=3176 MJD=54830 Scattered Light before halo removal on sdR-r1-00057668.fi



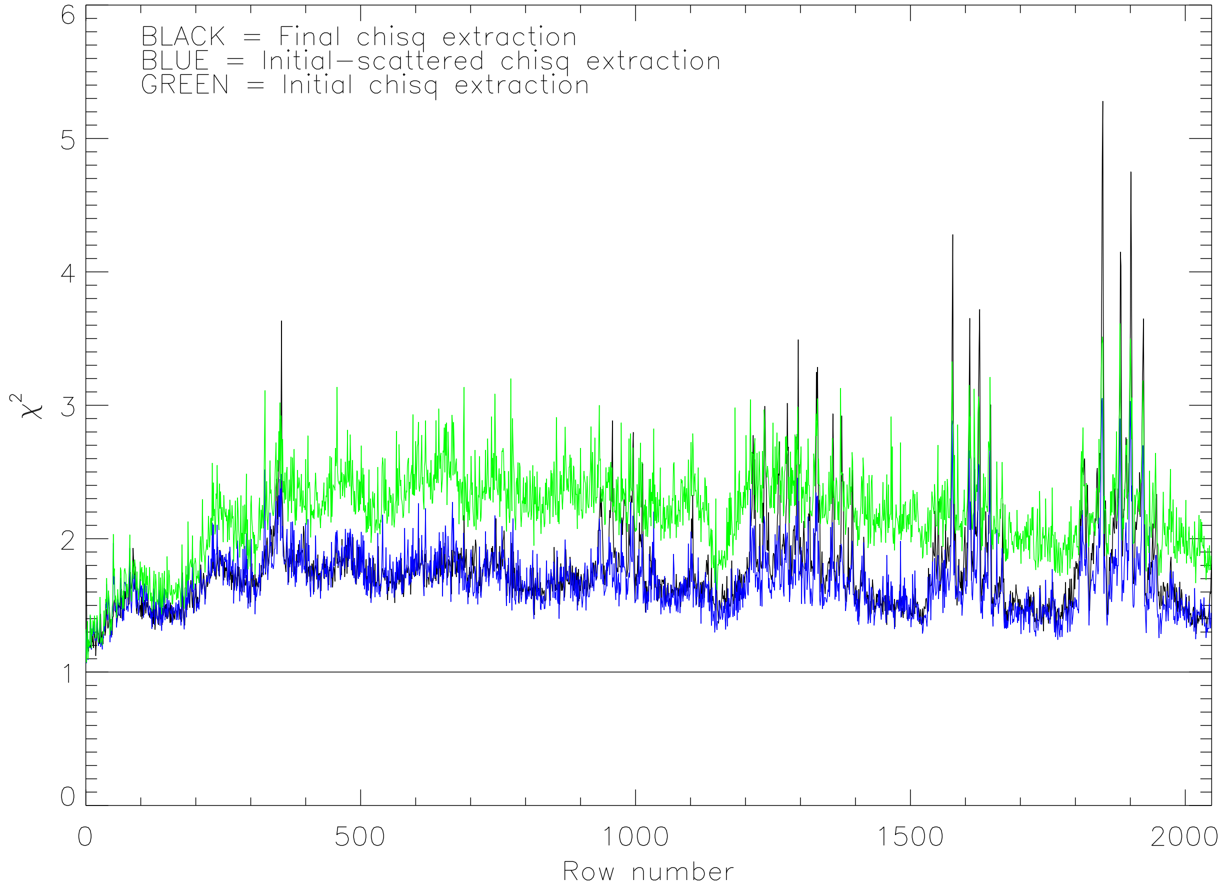

PLATE=3176 MJD=54830 Scattered Light before halo removal on sdR-r1-00057668.fi
Brightness [electrons/pix]
100
80
60
40
20
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 12.124
Max value = 81.047
Tue Mar 16 01:09:12 2010

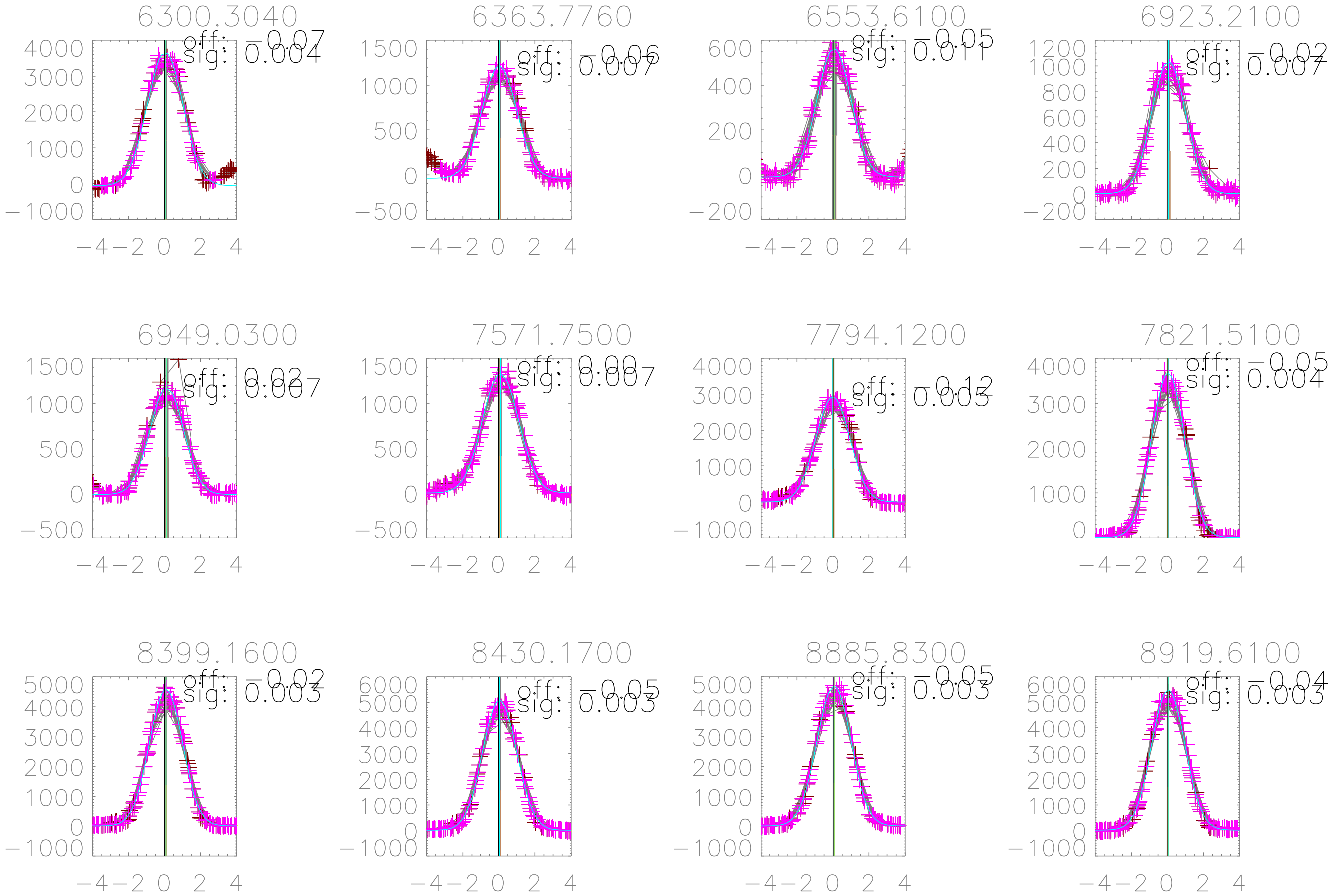
PLATE=3176 MJD=54830 Scattered Light on sdR-r1-00057668.fit

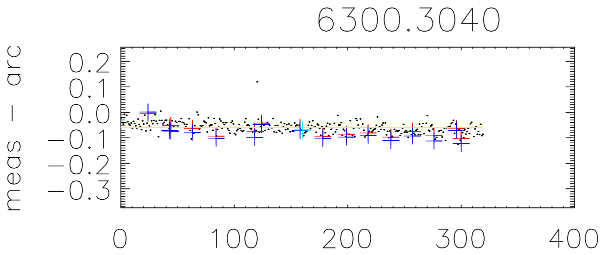


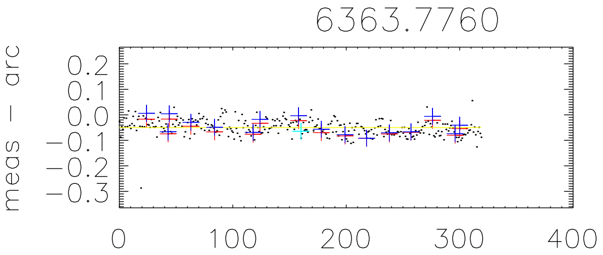

PLATE=3176 MJD=54830 Scattered Light on sdR-r1-00057668.fit
Brightness [electrons/pix]
λ [A]
0
10
20
30
40
6000
7000
8000
9000
Error bars denote full range
Min value = 11.748
Max value = 21.509
Tue Mar 16 01:13:38 2010

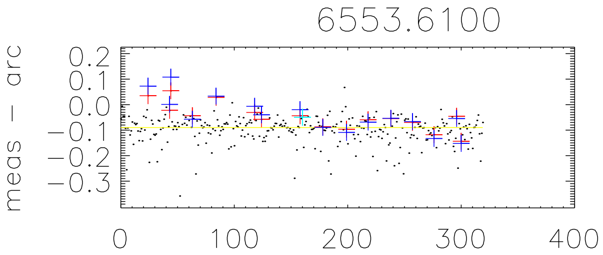
PLATE=3176 MJD=54830 Extraction chi^2 for sdR-r1-00057668.fit

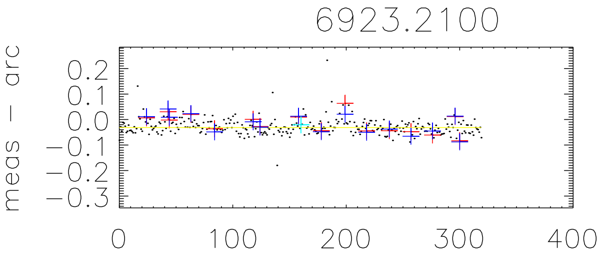


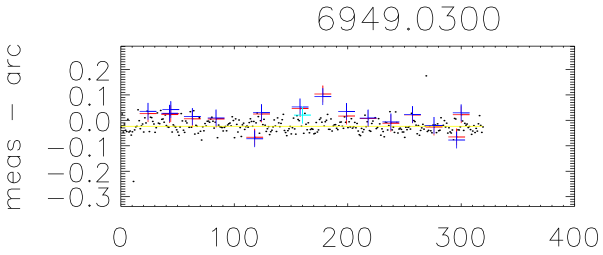

6300.3040
off: −0.07
sig: 0.004
6363.7760
off: −0.06
sig: 0.007
6553.6100
off: −0.05
sig: 0.011
6923.2100
off: −0.02
sig: 0.007
6949.0300
off: 0.02
sig: 0.007
7571.7500
off: 0.00
sig: 0.007
7794.1200
off: −0.12
sig: 0.005
7821.5100
off: −0.05
sig: 0.004
8399.1600
off: −0.02
sig: 0.003
8430.1700
off: −0.05
sig: 0.003
8885.8300
off: −0.05
sig: 0.003
8919.6100
off: −0.04
sig: 0.003
−4 −2 0 2 4

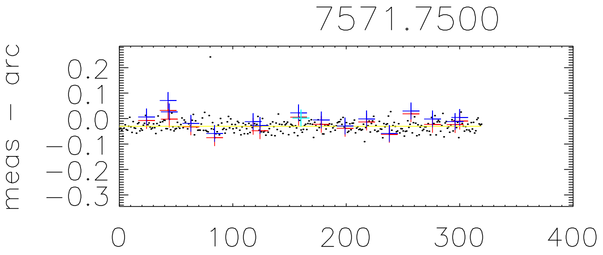

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

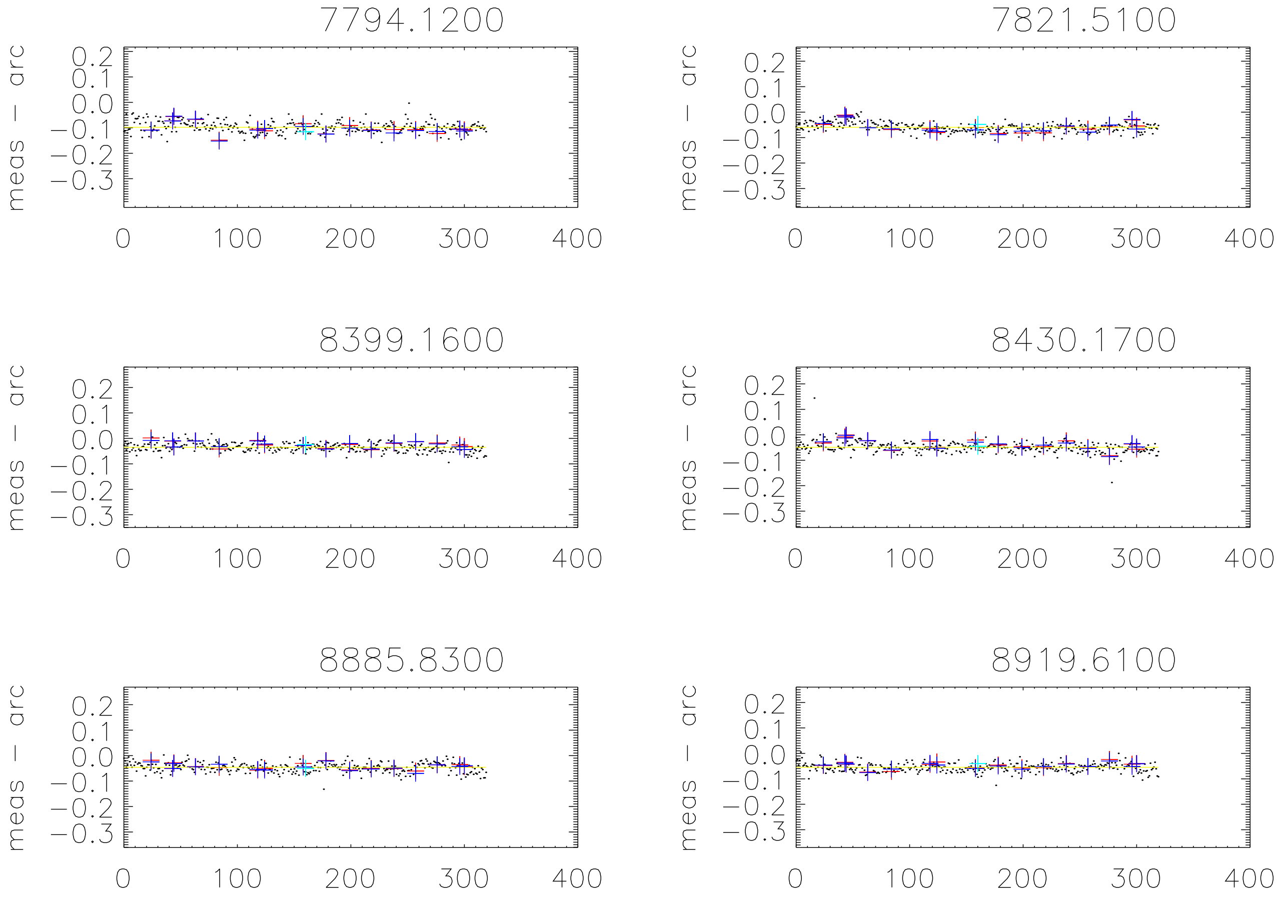

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

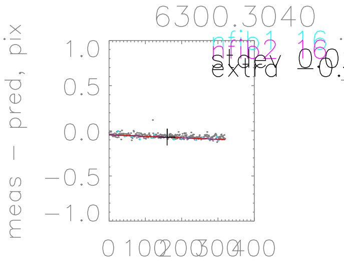

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

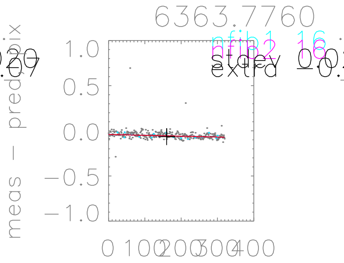

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

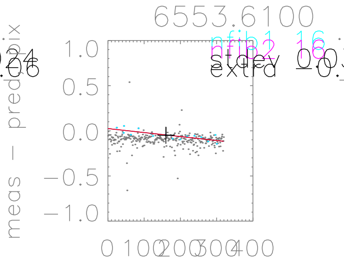

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

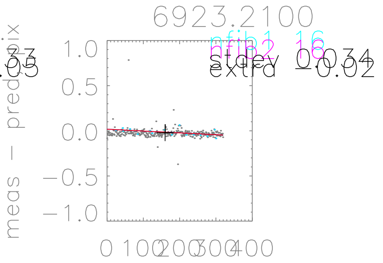

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

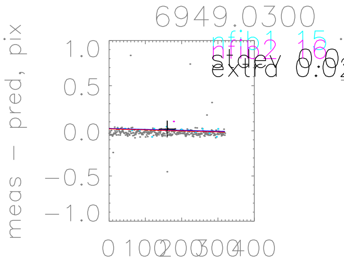

7794.1200
7821.5100
8399.1600
8430.1700
8885.8300
8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

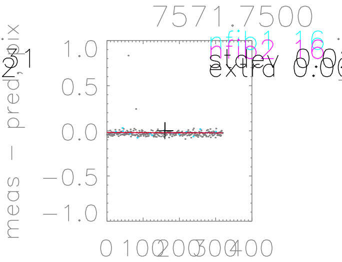

6300.3040
nfib1 16
nfib2 16
stdev 0.020
extrd −0.07
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

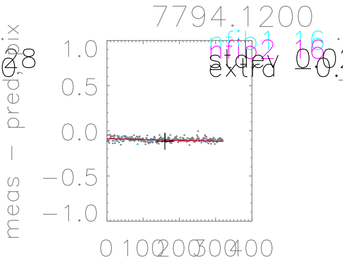

6363.7760
nfib1 16
nfib2 16
stdev 0.024
extrd −0.06
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

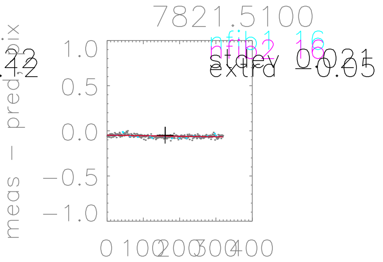

6553.6100
nfib1 16
nfib2 16
stdev 0.033
extrd −0.05
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

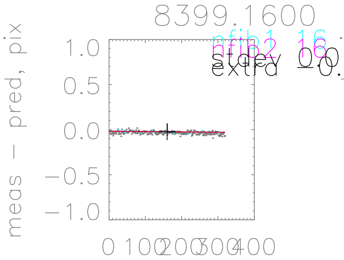

6923.2100
nfib1 16
nfib2 16
stdev 0.034
extrd −0.02
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

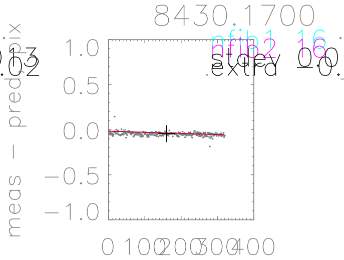

6949.0300
nfib1 15
nfib2 16
stdev 0.031
extrd 0.02
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

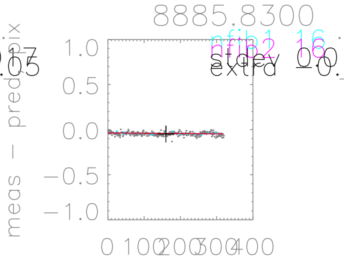

7571.7500
nfib1 16
nfib2 16
stdev 0.028
extrd 0.00
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

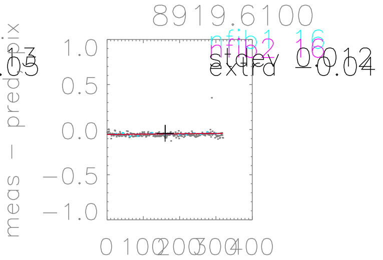

7794.1200
nfib1 16
nfib2 16
stdev 0.022
extrd −0.12
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

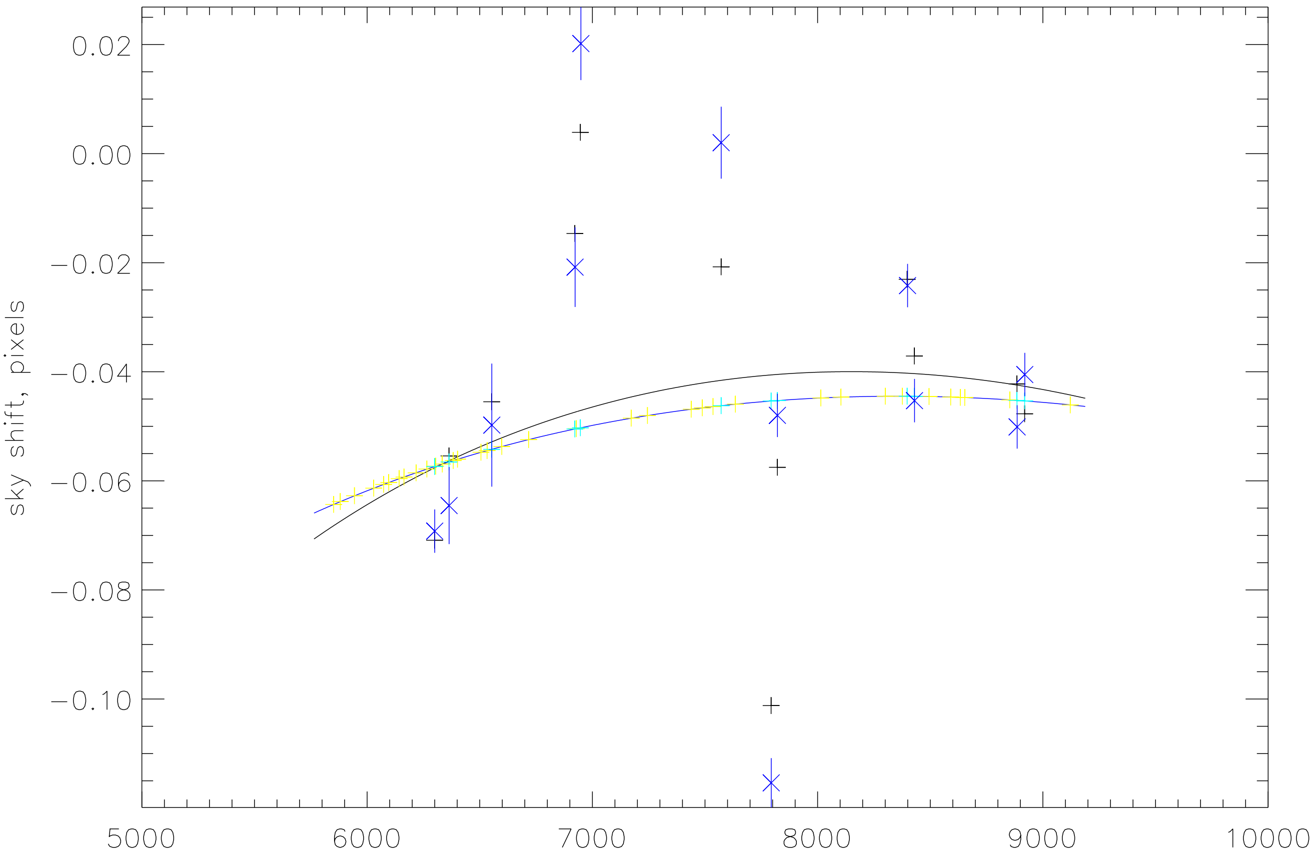

7821.5100
nfib1 16
nfib2 16
stdev 0.021
extrd −0.05
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

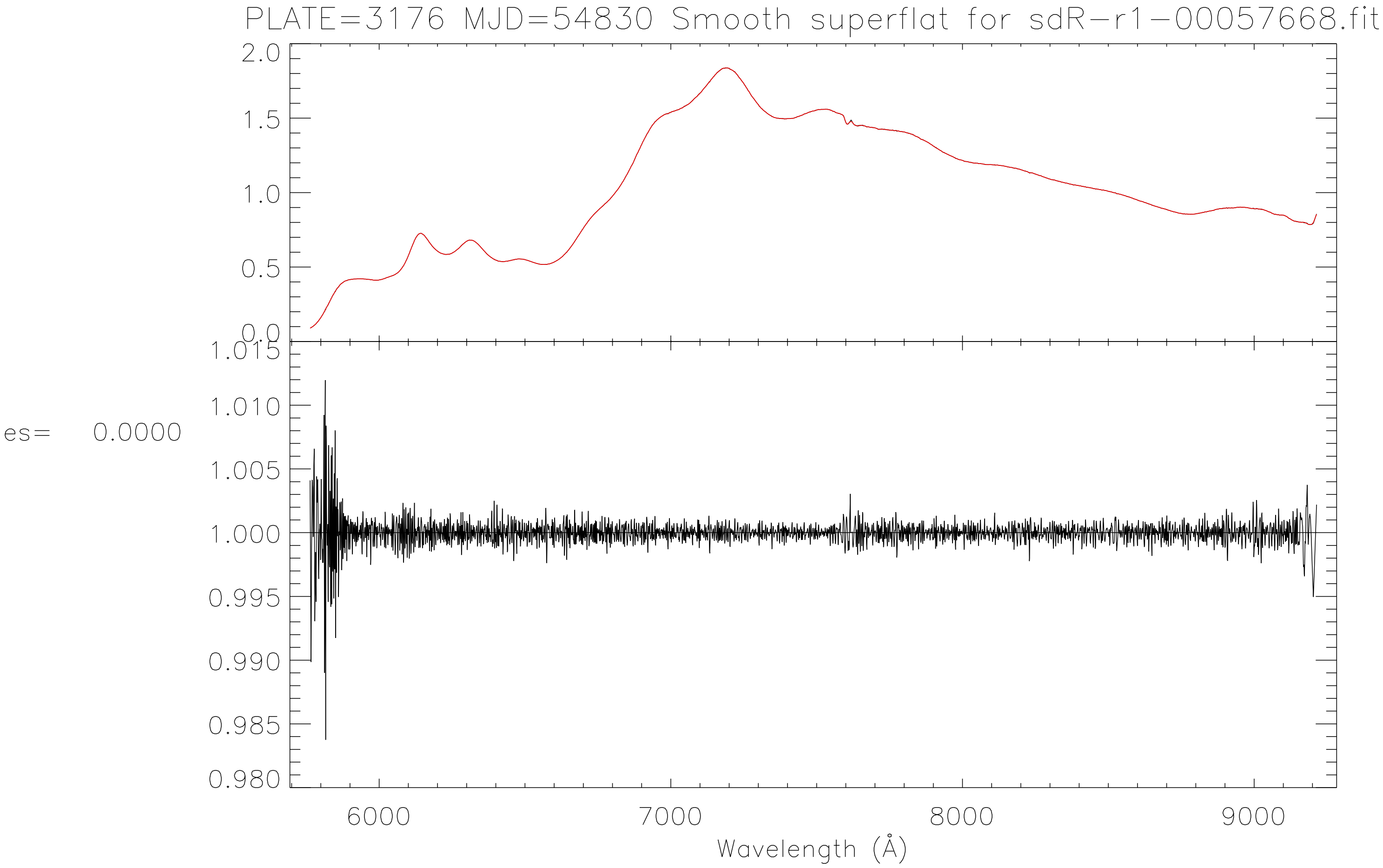

8399.1600
nfib1 16
nfib2 16
stdev 0.013
extrd −0.02
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

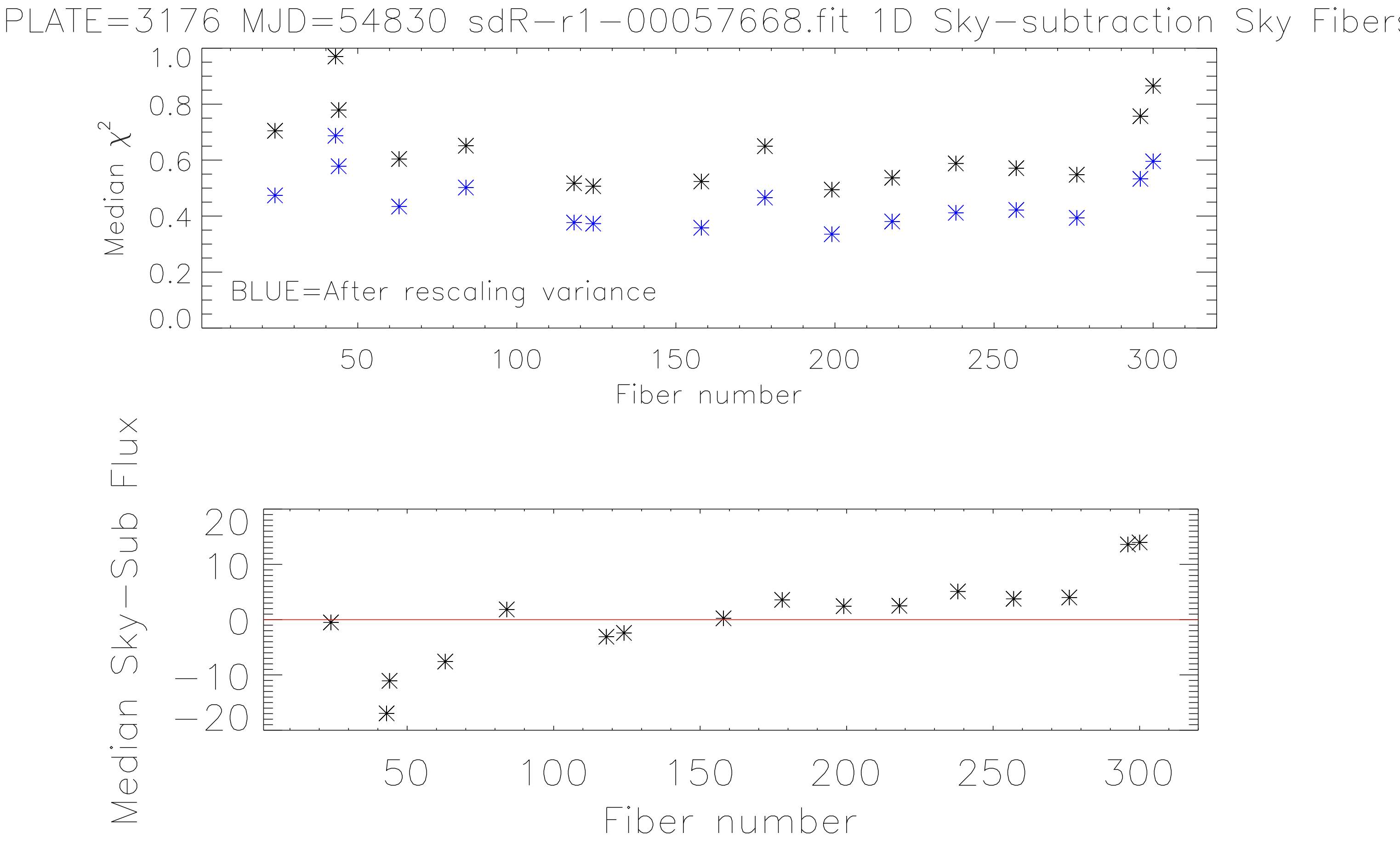

8430.1700
nfib1 16
nfib2 16
stdev 0.017
extrd −0.05
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

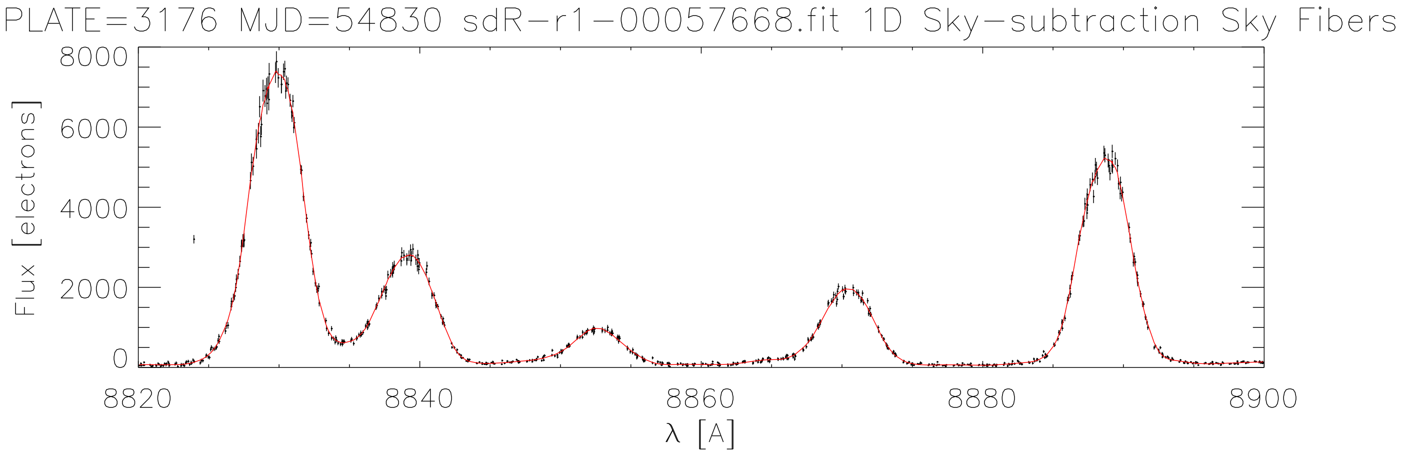

8885.8300
nfib1 16
nfib2 16
stdev 0.013
extrd −0.05
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400


8919.6100
nfib1 16
nfib2 16
stdev 0.012
extrd −0.04
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

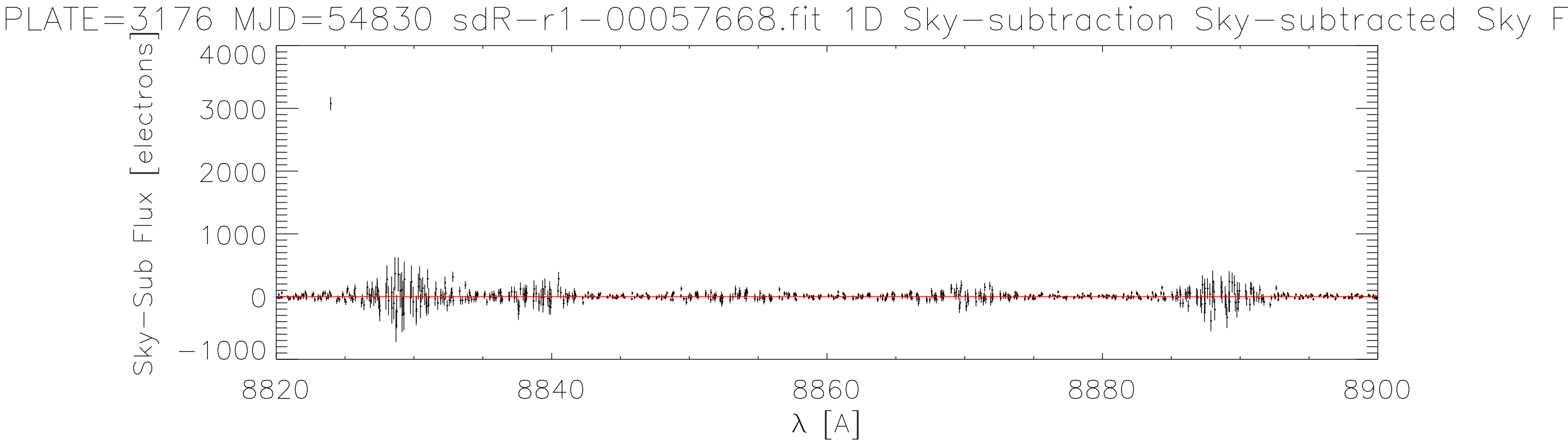

sky shift, pixels
0.02
0.00
−0.02
−0.04
−0.06
−0.08
−0.10
5000
6000
7000
8000
9000
10000


PLATE=3176 MJD=54830 Smooth superflat for sdR-r1-00057668.fit
2.0
1.5
1.0
0.5
0.0
1.015
1.010
1.005
1.000
0.995
0.990
0.985
0.980
es= 0.0000
6000
7000
8000
9000
Wavelength (Å)

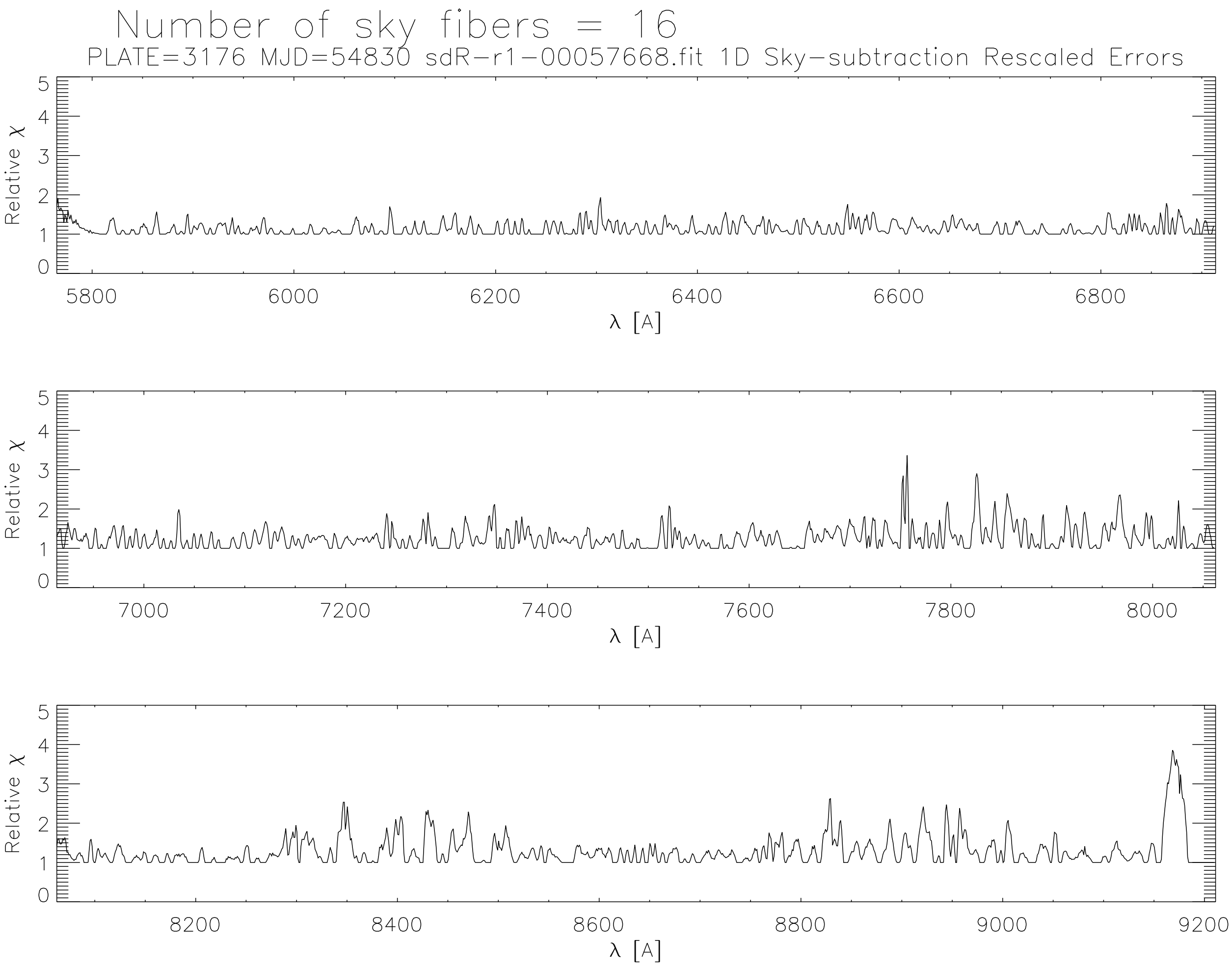

PLATE=3176 MJD=54830 sdR-r1-00057668.fit 1D Sky-subtraction Sky Fiber
Median χ^2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
10
0
−10
−20
50
100
150
200
250
300
Fiber number

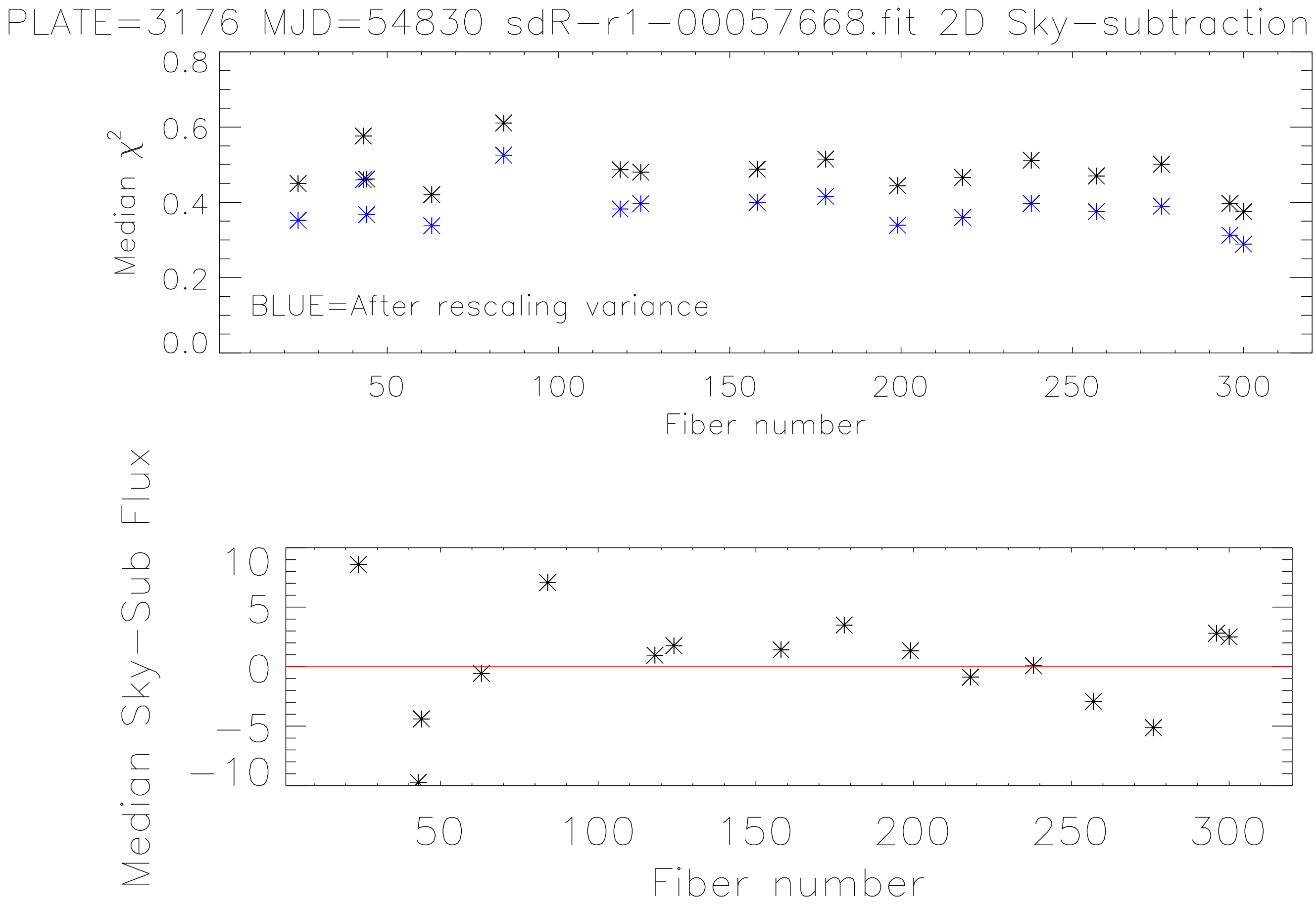


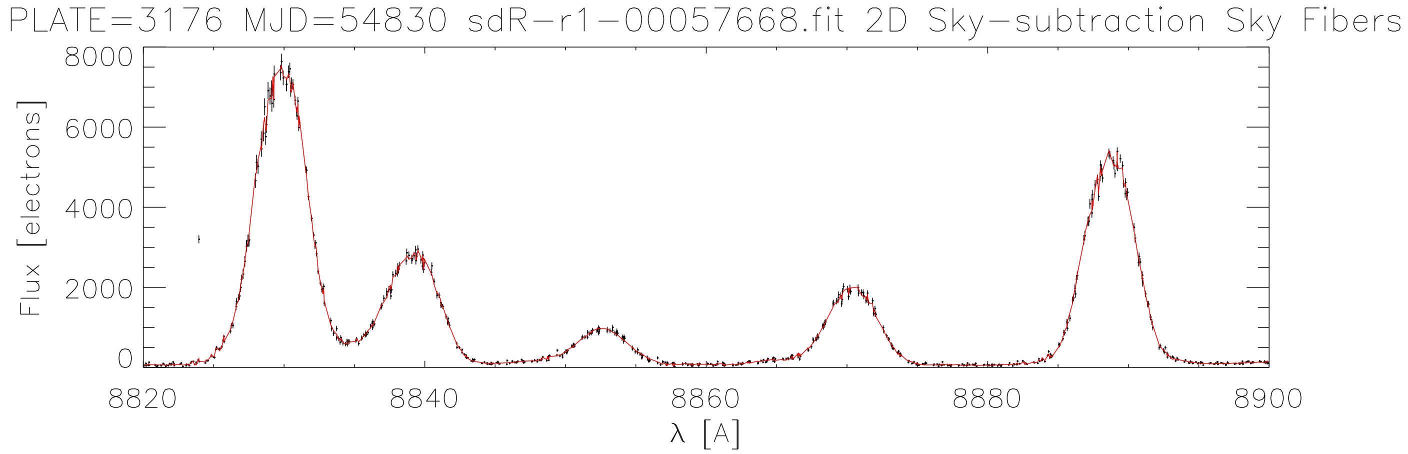
PLATE=3176 MJD=54830 sdR-r1-00057668.fit 1D Sky-subtraction Sky Fibers

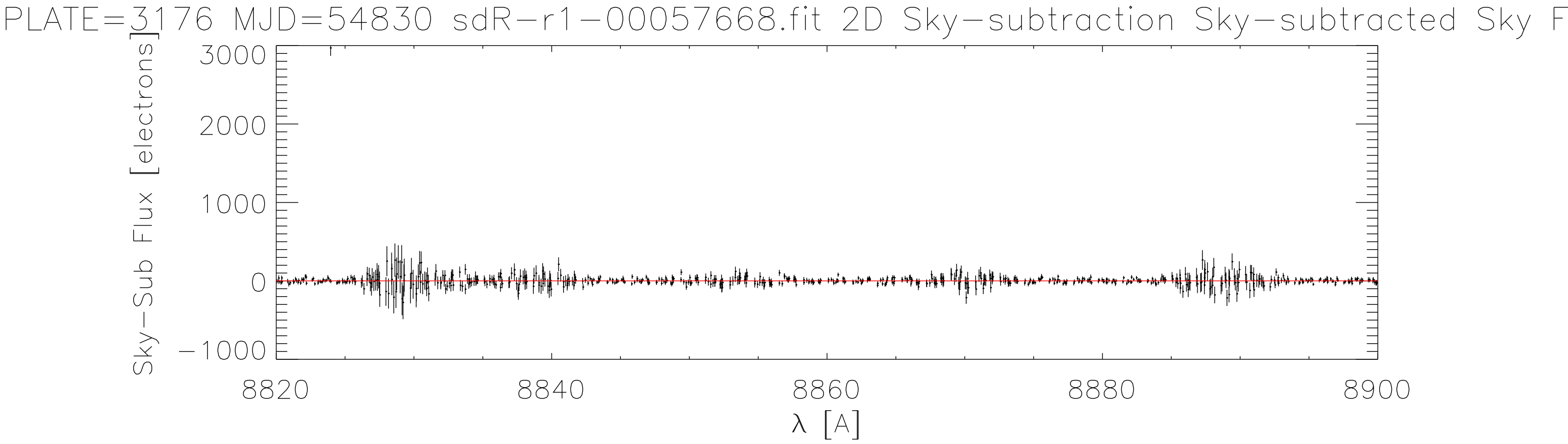


PLATE=3176 MJD=54830 sdR-r1-00057668.fit 1D Sky-subtraction Sky-subtracted Sky F


Number of sky fibers = 16
PLATE=3176 MJD=54830 sdR-r1-00057668.fit 1D Sky-subtraction Rescaled Errors
Relative χ
0
1
2
3
4
5
5800
6000
6200
6400
6600
6800
λ [A]
Relative χ
0
1
2
3
4
5
7000
7200
7400
7600
7800
8000
λ [A]
Relative χ
0
1
2
3
4
5
8200
8400
8600
8800
9000
9200
λ [A]

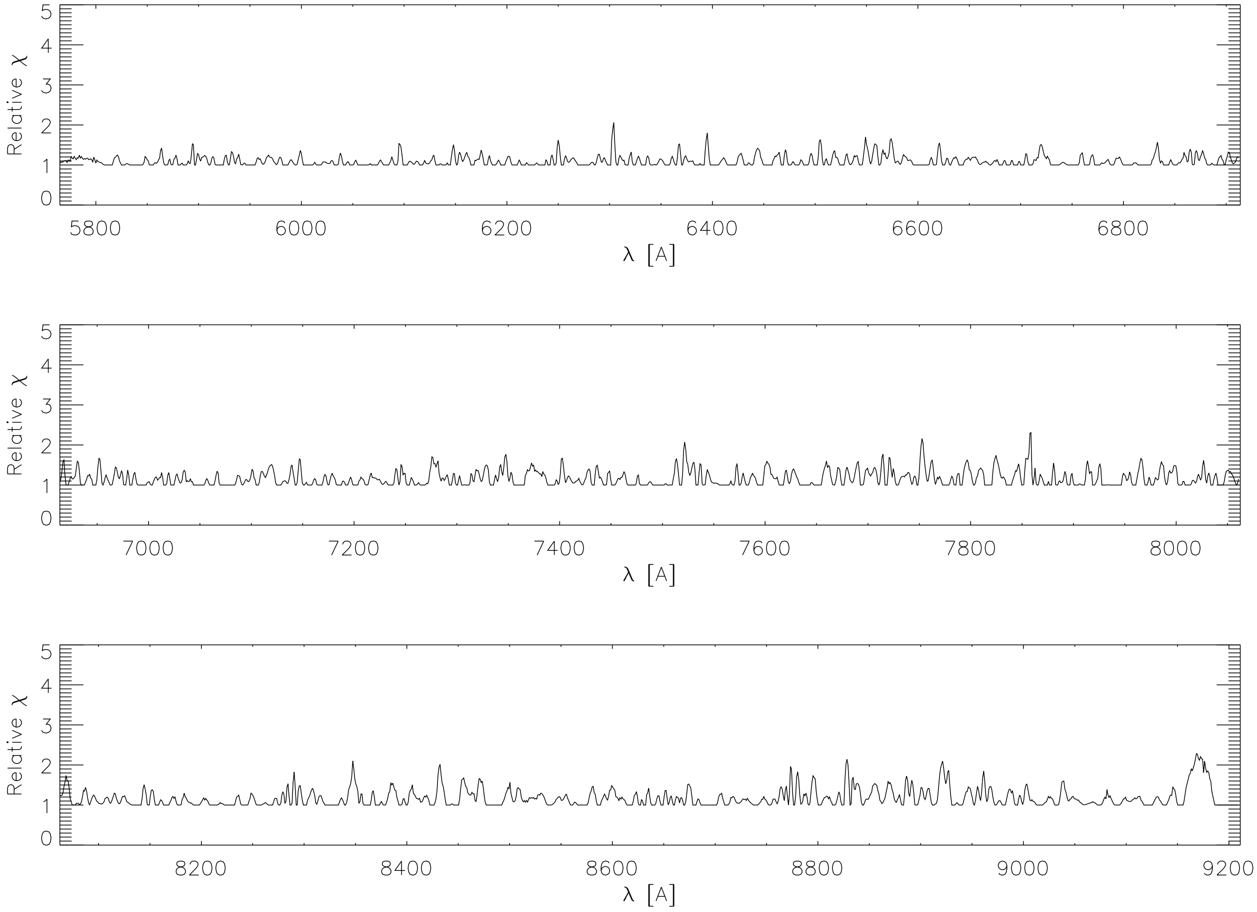

PLATE=3176 MJD=54830 sdR-r1-00057668.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

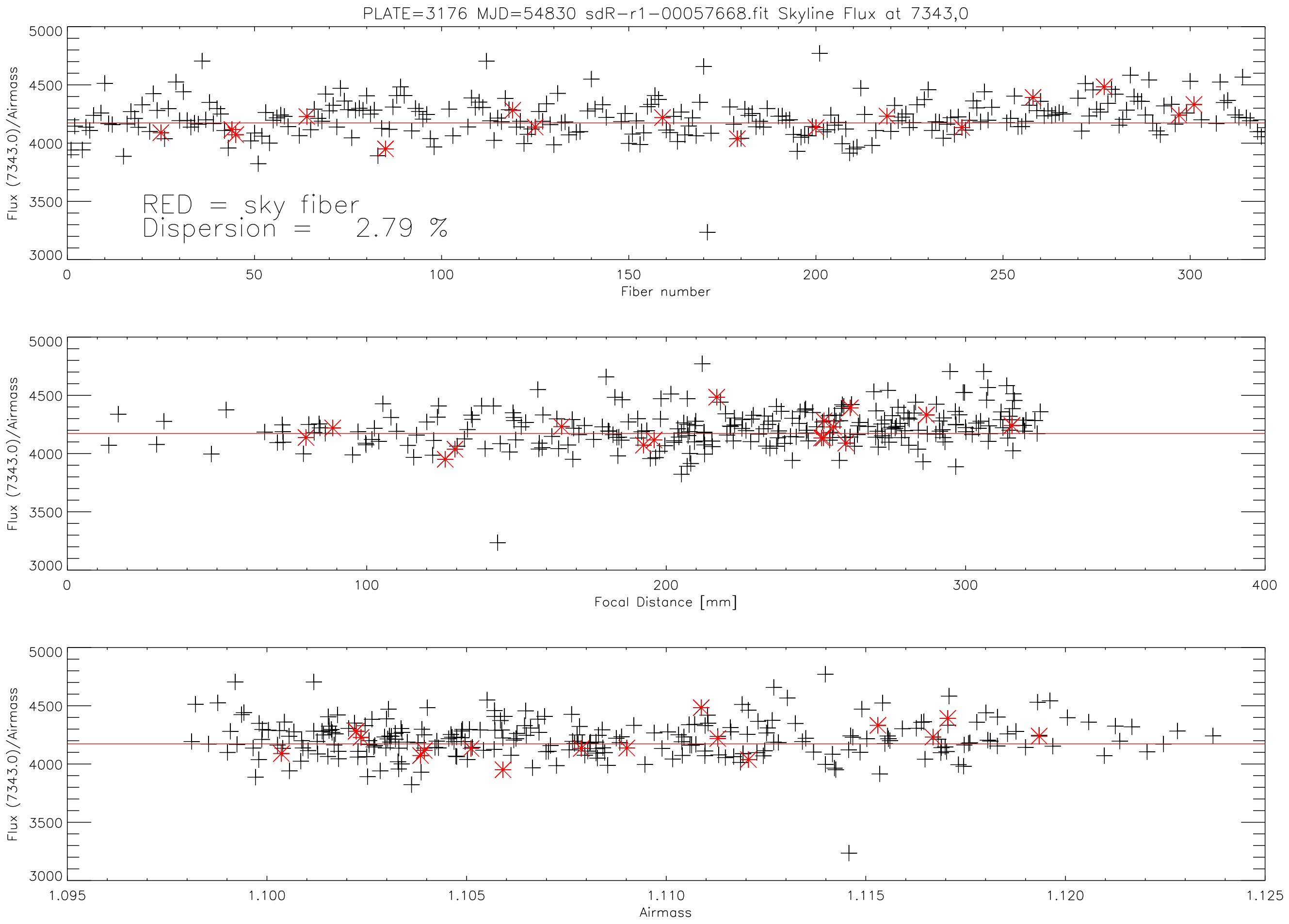

PLATE=3176 MJD=54830 sdR-r1-00057668.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

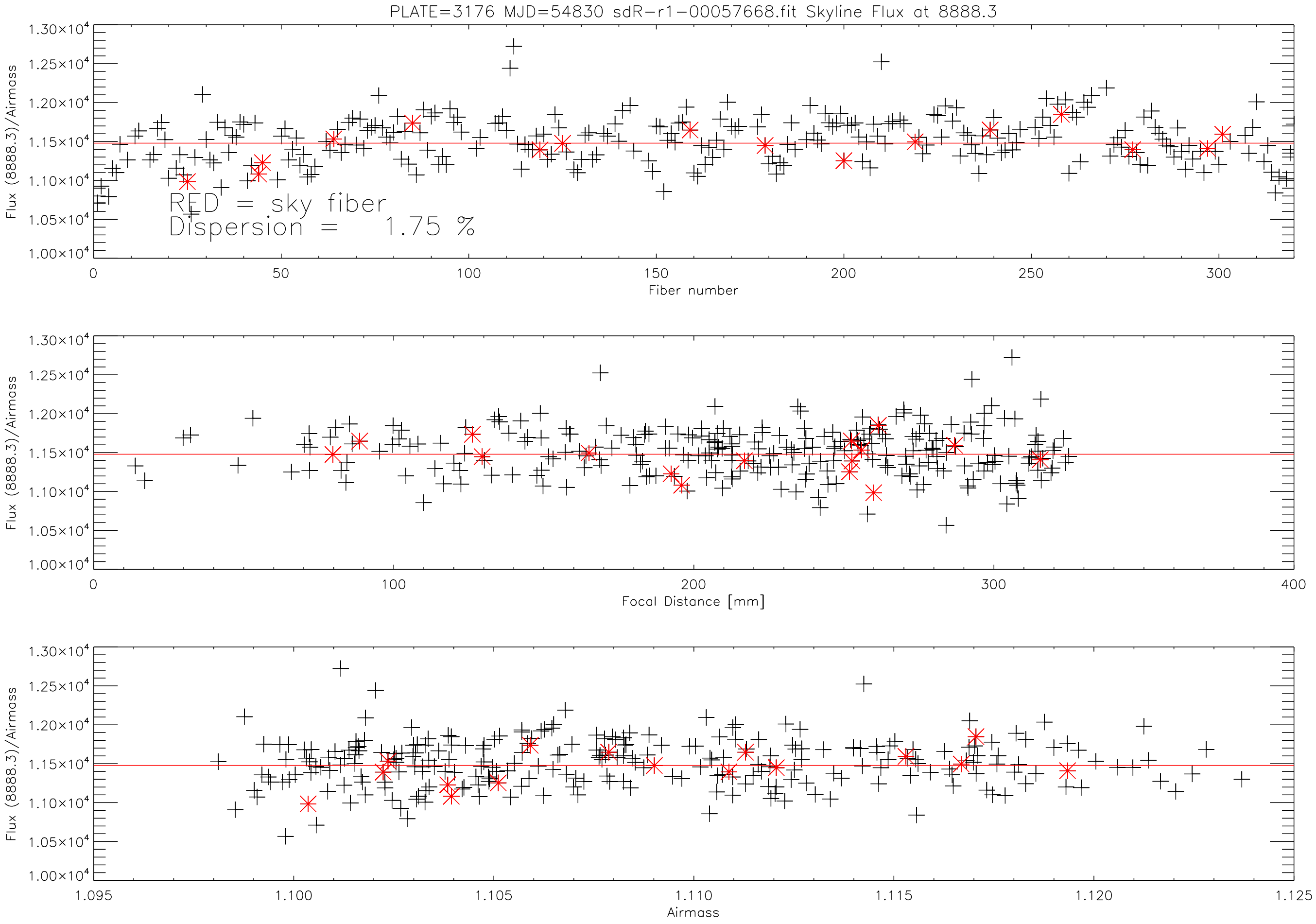

PLATE=3176 MJD=54830 sdR-r1-00057668.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
3000
2000
1000
0
−1000
8820
8840
8860
8880
8900
λ [A]

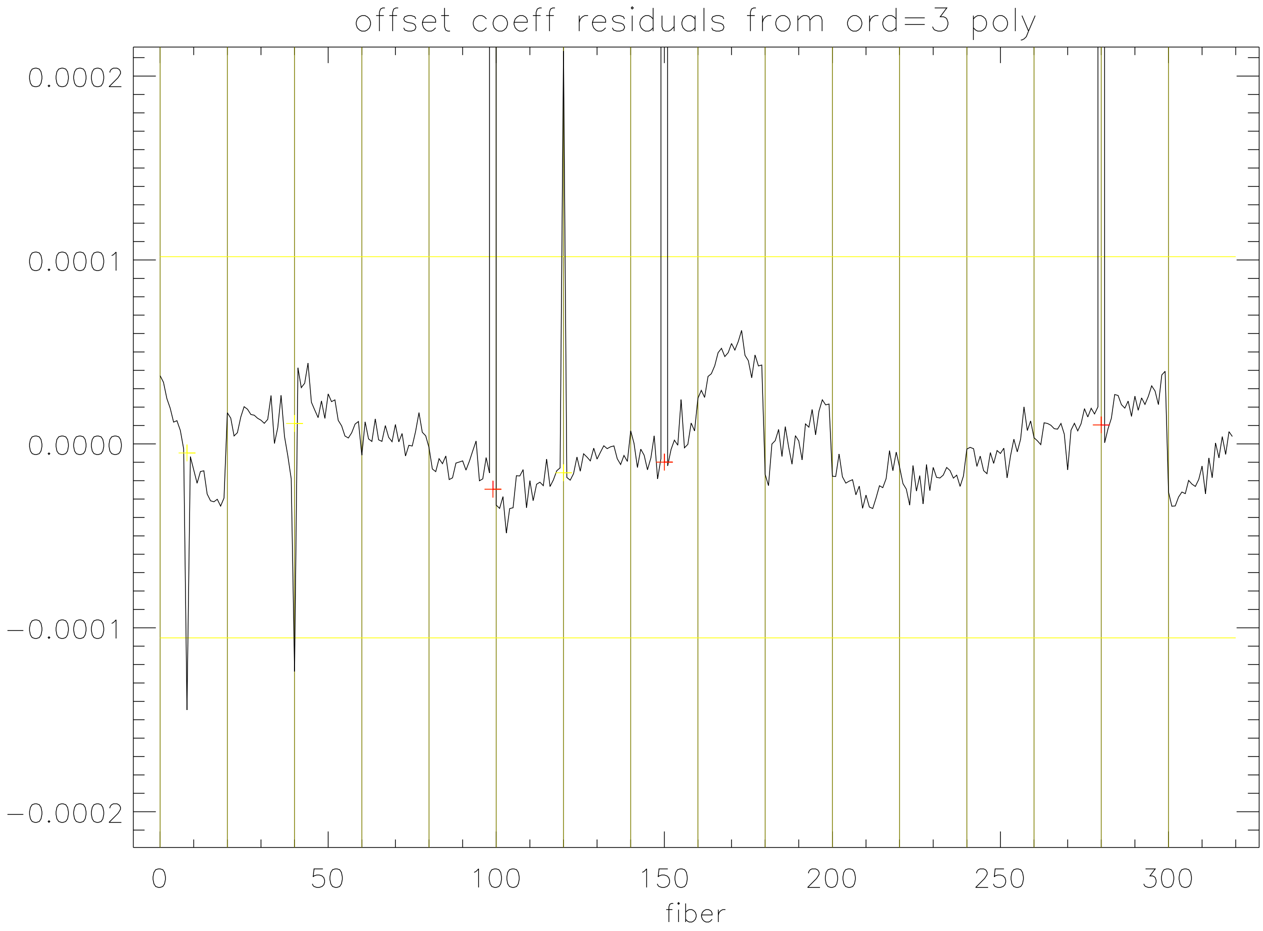
Number of sky fibers = 16

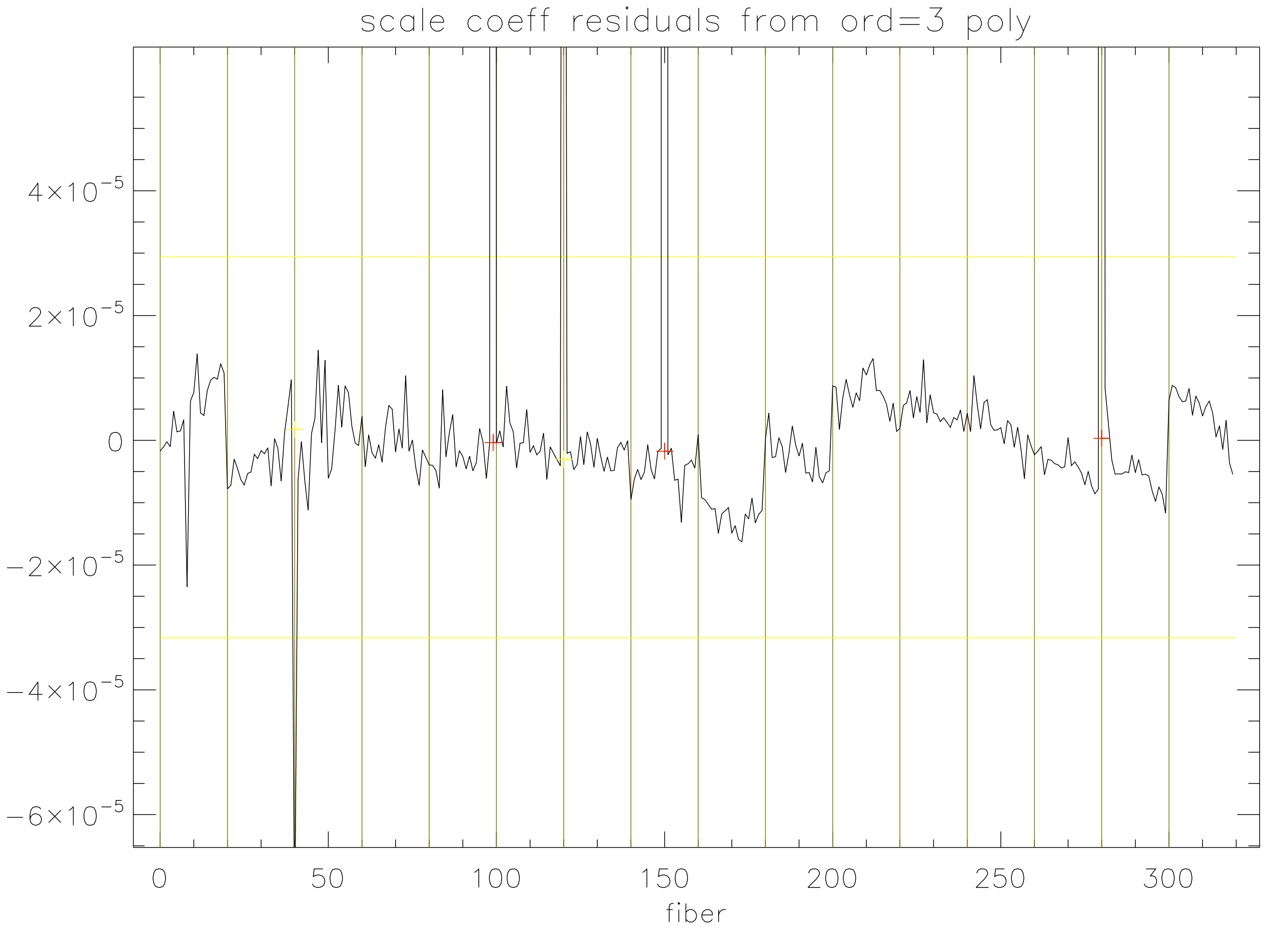
PLATE=3176 MJD=54830 sdR-r1-00057668.fit 2D Sky-subtraction Rescaled Errors

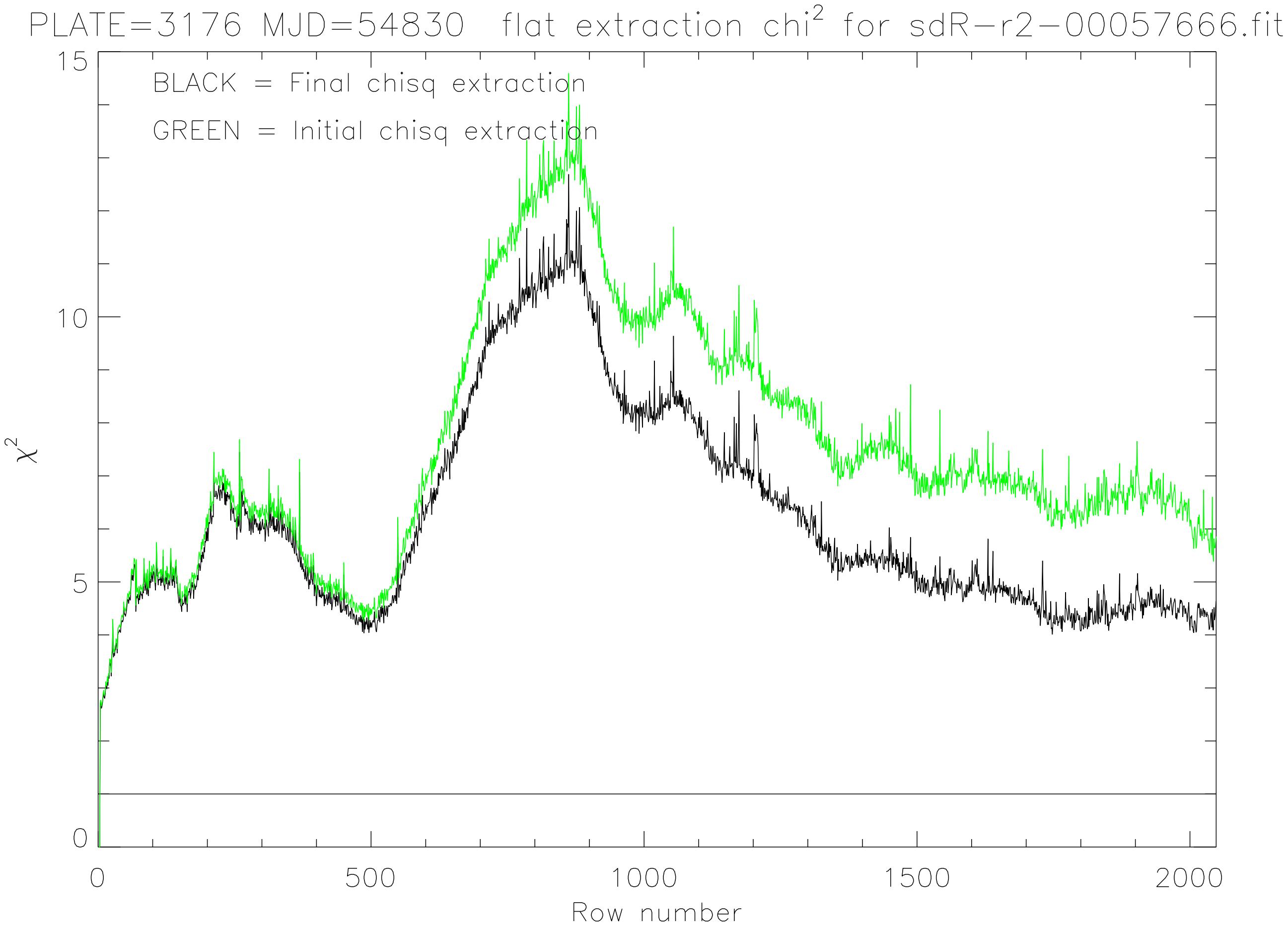


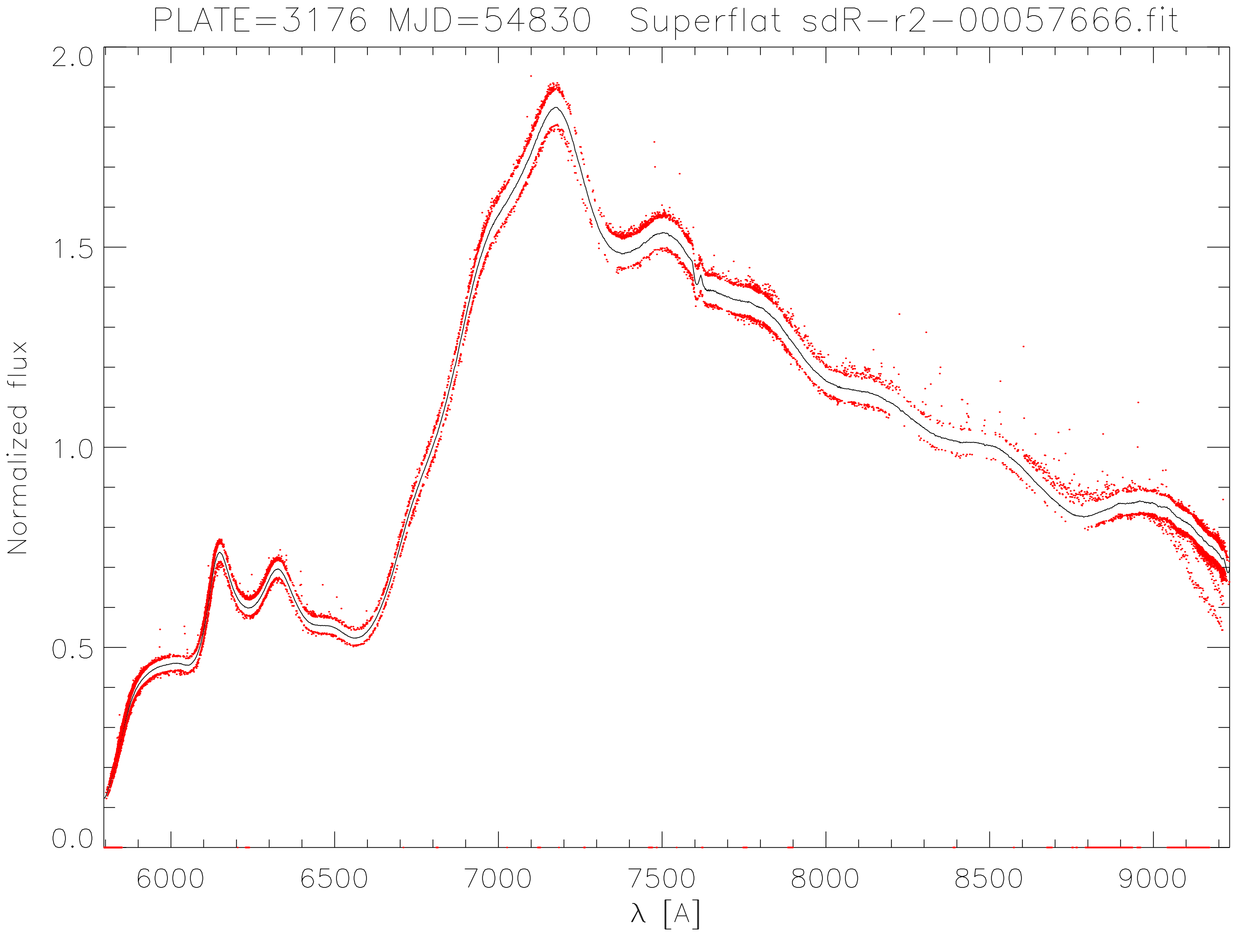

PLATE=3176 MJD=54830 sdR−r1−00057668.fit Skyline Flux at 7343,0
RED = sky fiber
Dispersion = 2.79 %
Flux (7343.0)/Airmass
5000
4500
4000
3500
3000
0
50
100
150
200
250
300
Fiber number
Flux (7343.0)/Airmass
5000
4500
4000
3500
3000
0
100
200
300
400
Focal Distance [mm]
Flux (7343.0)/Airmass
5000
4500
4000
3500
3000
1.095
1.100
1.105
1.110
1.115
1.120
1.125
Airmass

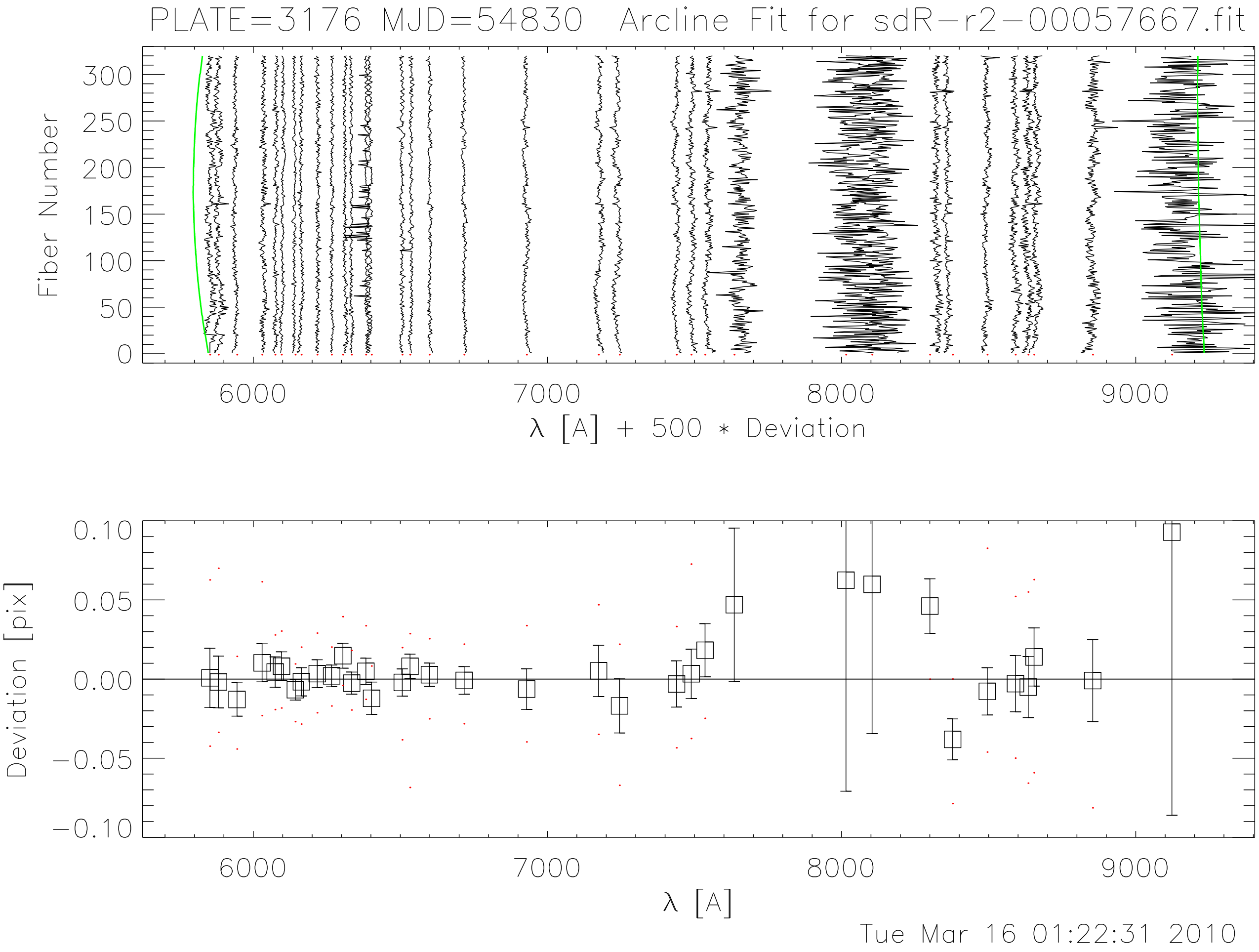

PLATE=3176 MJD=54830 sdR-r1-00057668.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
1.30×10^4
1.25×10^4
1.20×10^4
1.15×10^4
1.10×10^4
1.05×10^4
1.00×10^4
RED = sky fiber
Dispersion = 1.75 %
0
50
100
150
200
250
300
Fiber number
Flux (8888.3)/Airmass
1.30×10^4
1.25×10^4
1.20×10^4
1.15×10^4
1.10×10^4
1.05×10^4
1.00×10^4
0
100
200
300
400
Focal Distance [mm]
Flux (8888.3)/Airmass
1.30×10^4
1.25×10^4
1.20×10^4
1.15×10^4
1.10×10^4
1.05×10^4
1.00×10^4
1.095
1.100
1.105
1.110
1.115
1.120
1.125
Airmass


offset coeff residuals from ord=3 poly
0.0002
0.0001
0.0000
−0.0001
−0.0002
0
50
100
150
200
250
300
fiber

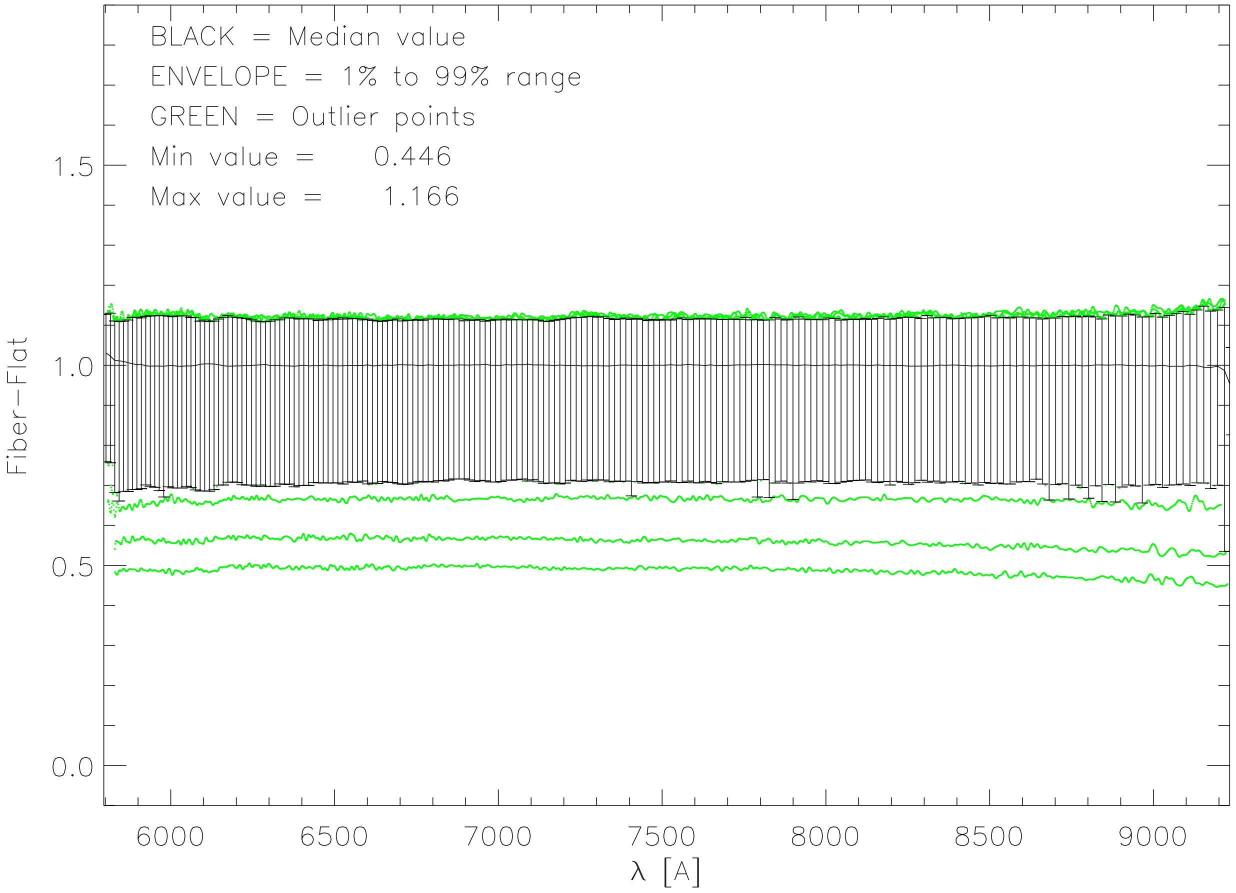

scale coeff residuals from ord=3 poly
4×10^-5
2×10^-5
0
−2×10^-5
−4×10^-5
−6×10^-5
0
50
100
150
200
250
300
fiber


PLATE=3176 MJD=54830 flat extraction chi^2 for sdR-r2-00057666.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
5
10
15
0
500
1000
1500
2000
Row number

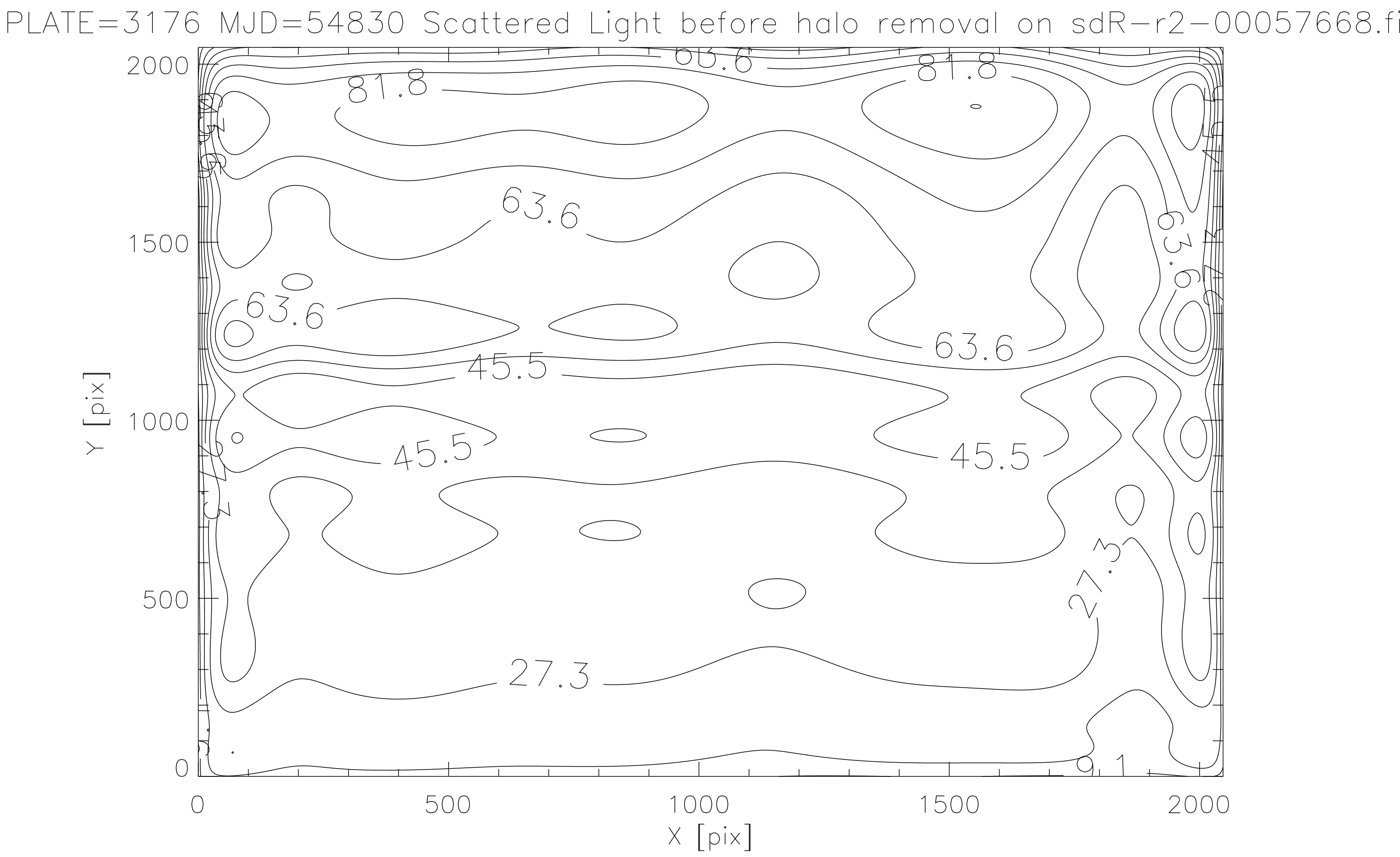

PLATE=3176 MJD=54830 Superflat sdR-r2-00057666.fit
Normalized flux
0.0
0.5
1.0
1.5
2.0
6000
6500
7000
7500
8000
8500
9000
λ [A]


PLATE=3176 MJD=54830 Arcline Fit for sdR-r2-00057667.fit
Fiber Number
0
50
100
150
200
250
300
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]
Tue Mar 16 01:22:31 2010

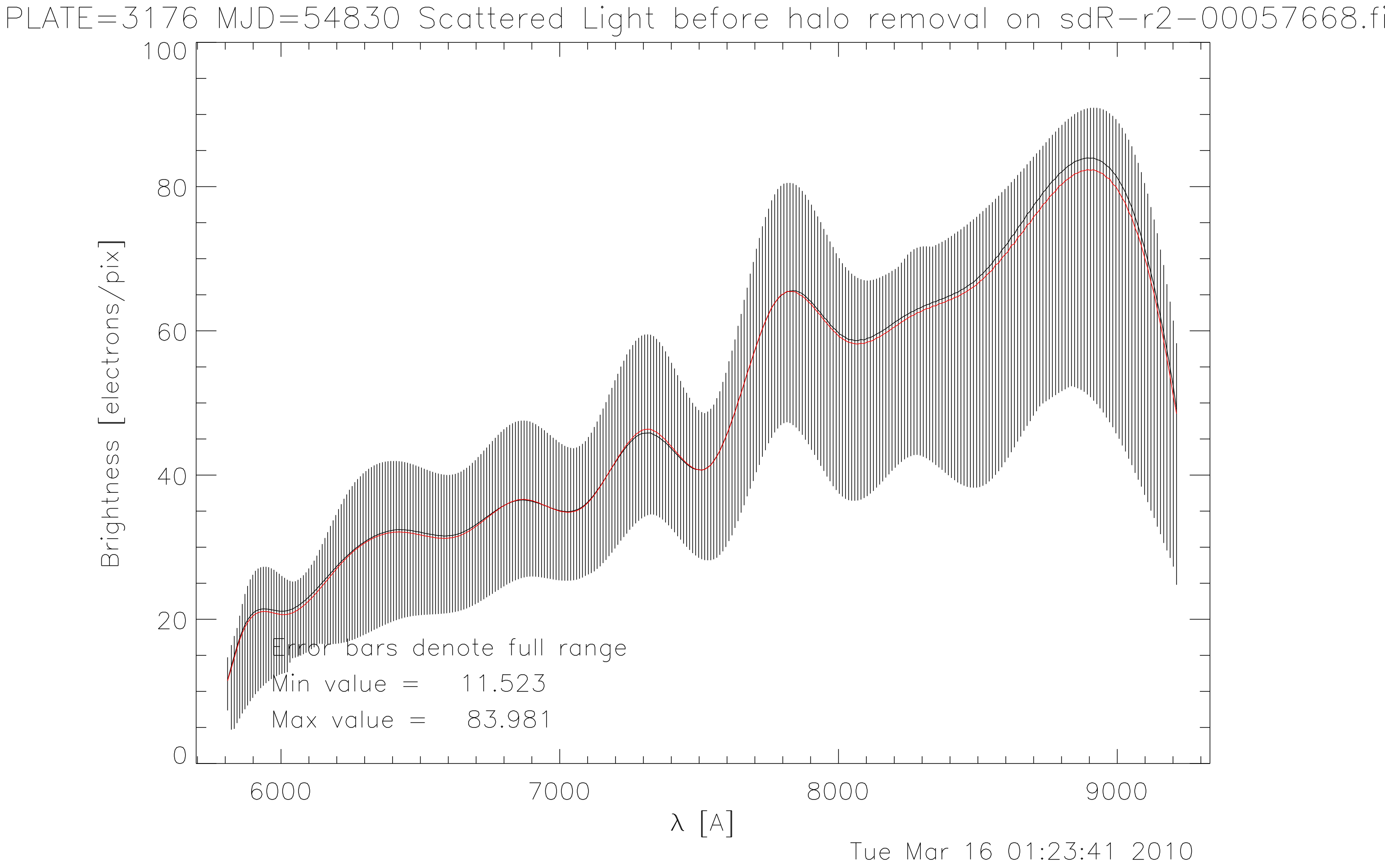
PLATE=3176 MJD=54830 Fiber-Flats for sdR-r2-00057666.fit

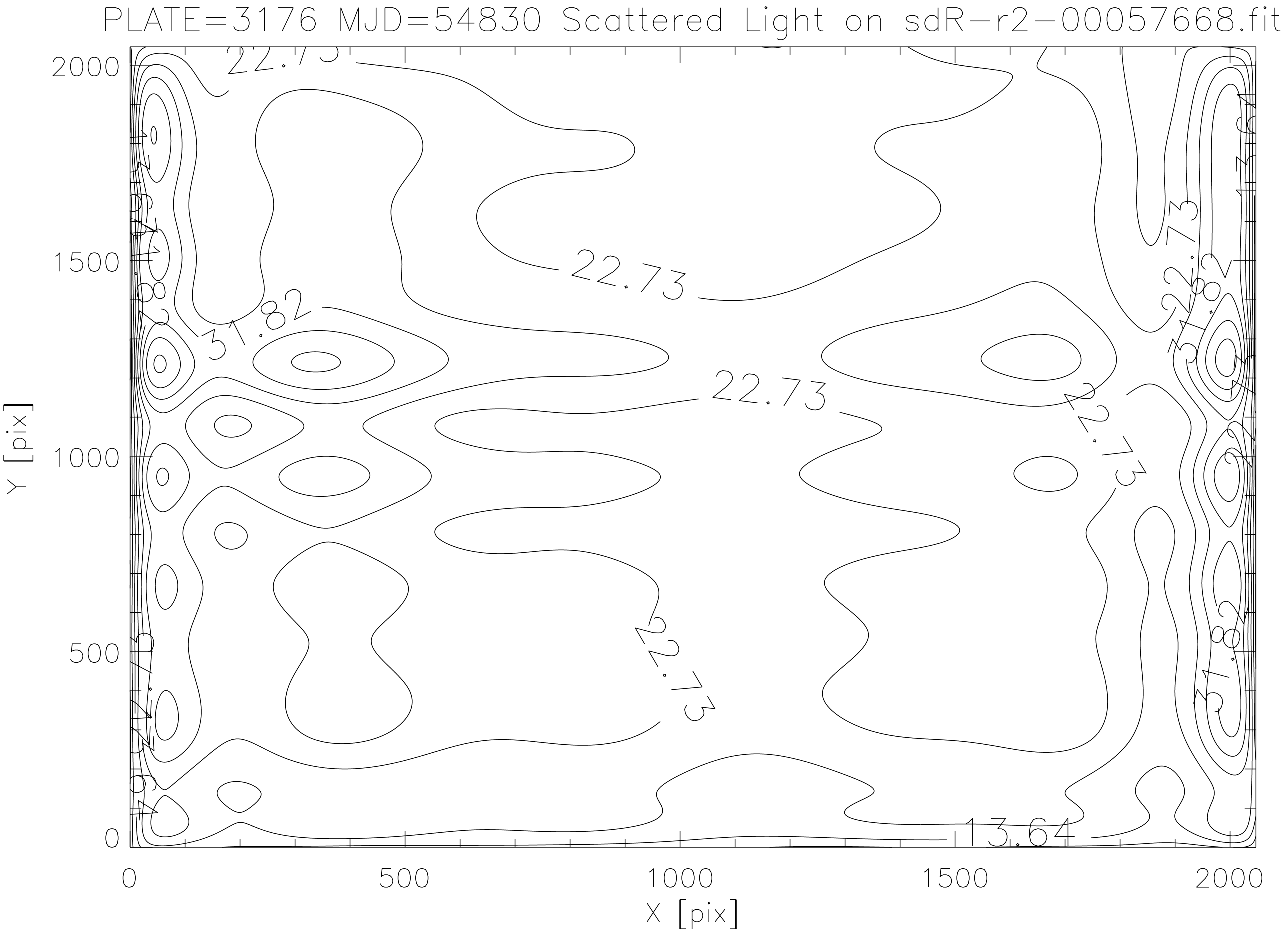


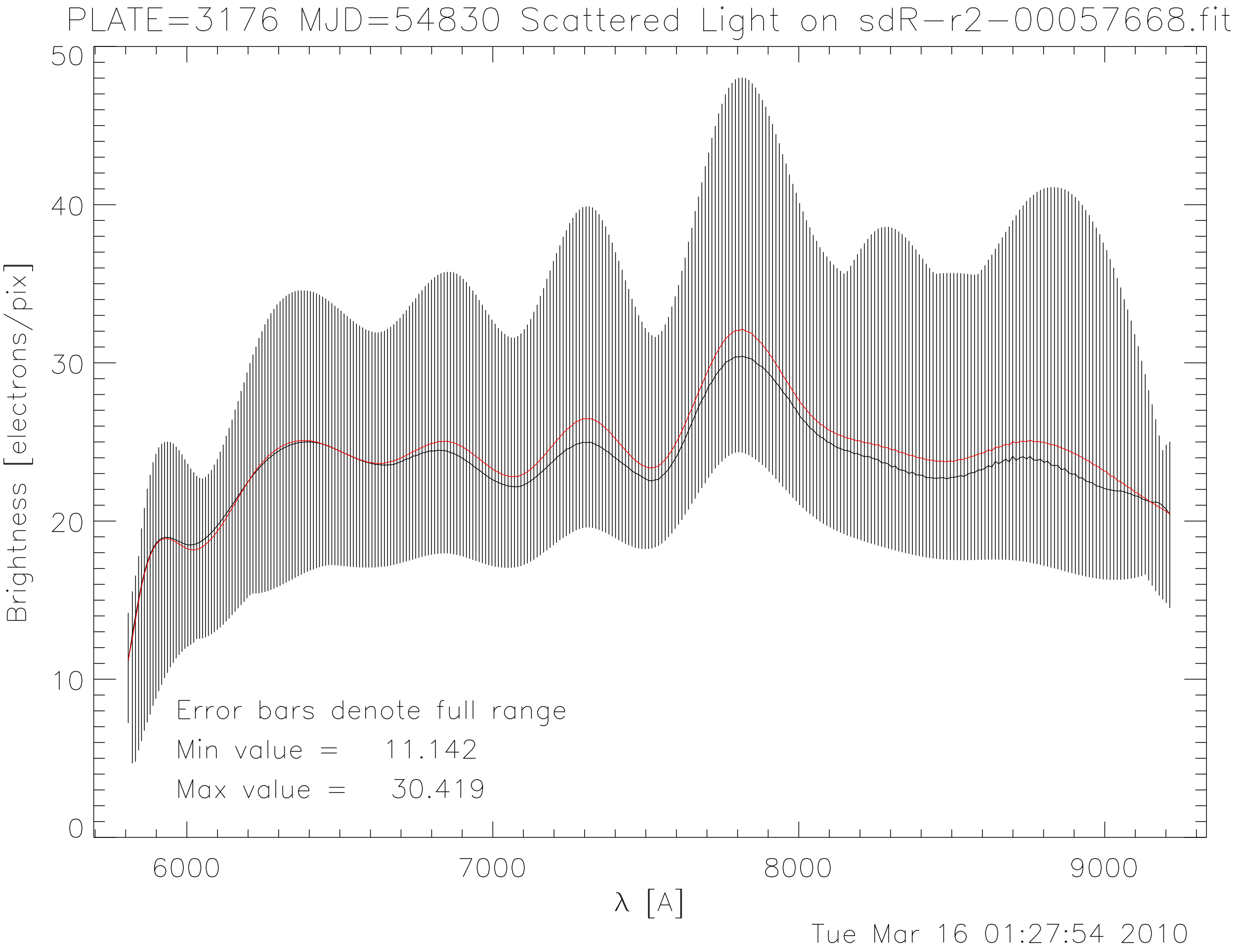
Tue Mar 16 01:22:41 2010

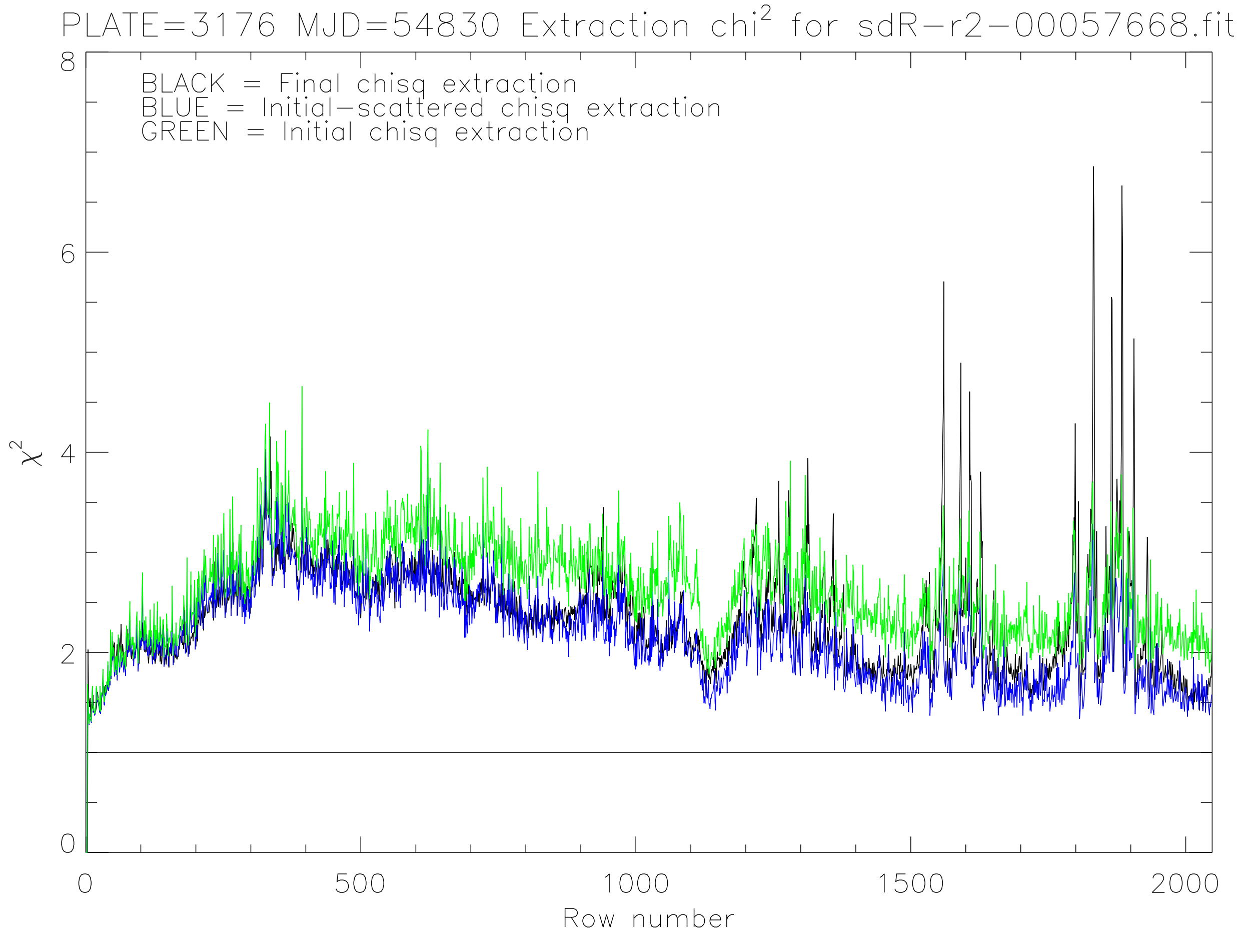


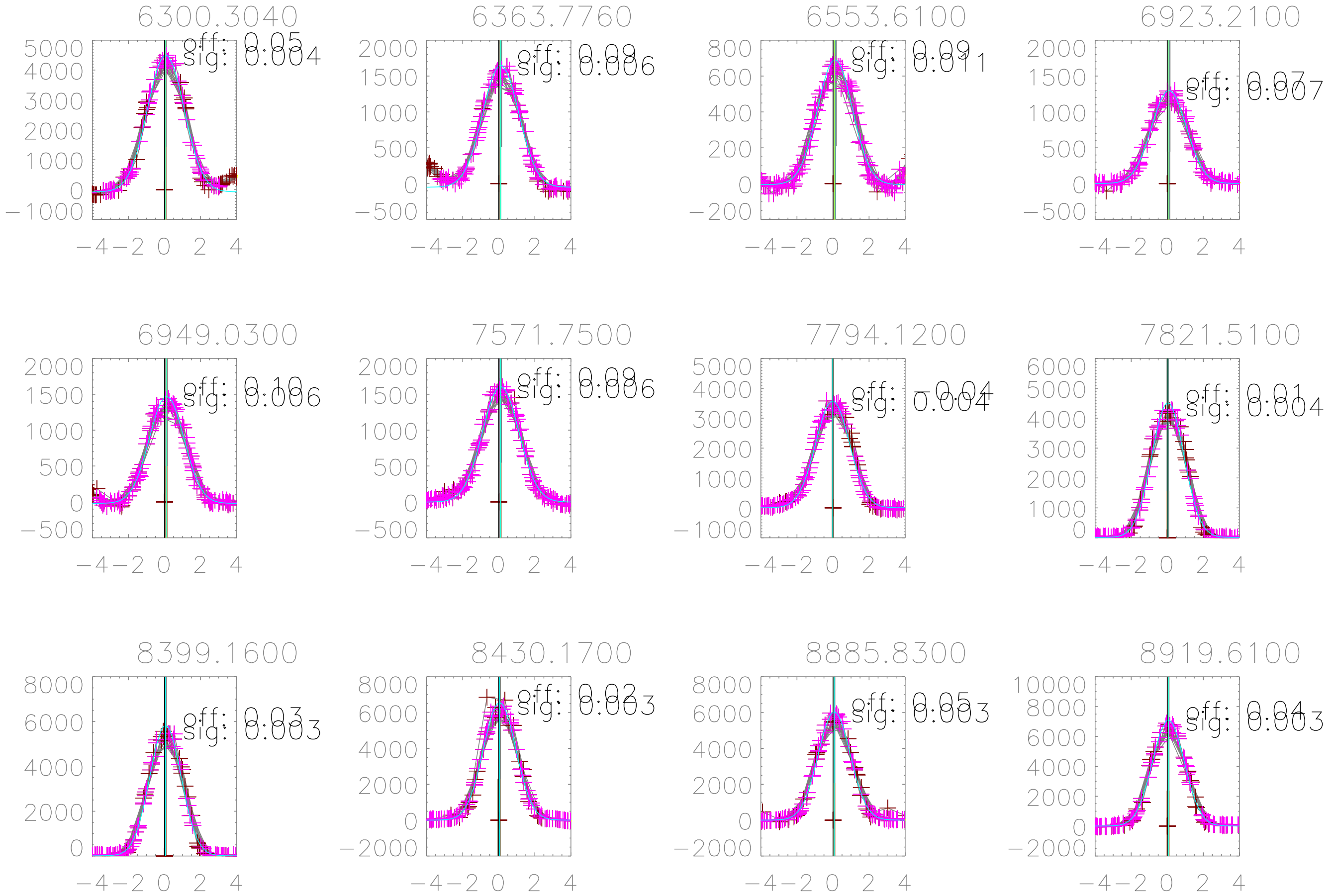
PLATE=3176 MJD=54830 Scattered Light before halo removal on sdR-r2-00057668.fi

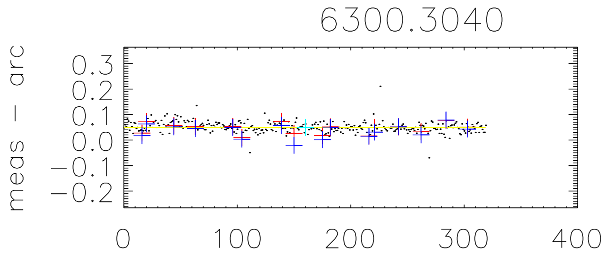

PLATE=3176 MJD=54830 Scattered Light before halo removal on sdR-r2-00057668.fi
Brightness [electrons/pix]
0
20
40
60
80
100
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 11.523
Max value = 83.981
Tue Mar 16 01:23:41 2010

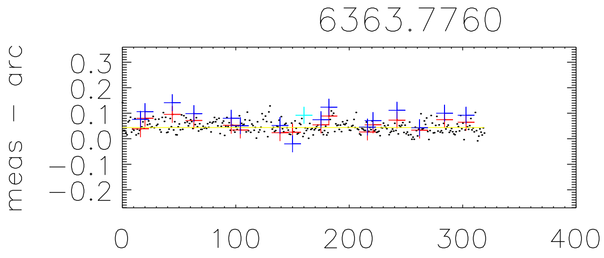

PLATE=3176 MJD=54830 Scattered Light on sdR-r2-00057668.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
22.73
31.82
13.64

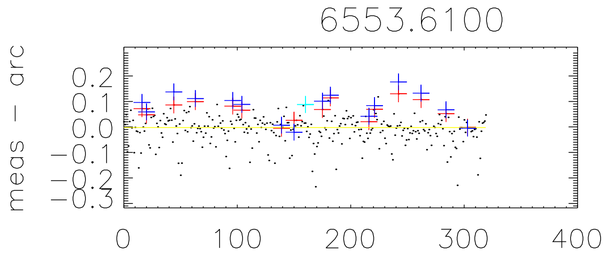

PLATE=3176 MJD=54830 Scattered Light on sdR-r2-00057668.fit
Brightness [electrons/pix]
0
10
20
30
40
50
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 11.142
Max value = 30.419
Tue Mar 16 01:27:54 2010

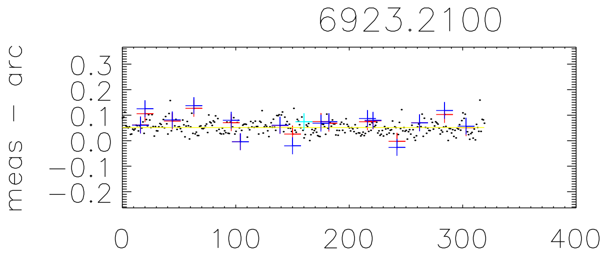

PLATE=3176 MJD=54830 Extraction chi^2 for sdR-r2-00057668.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

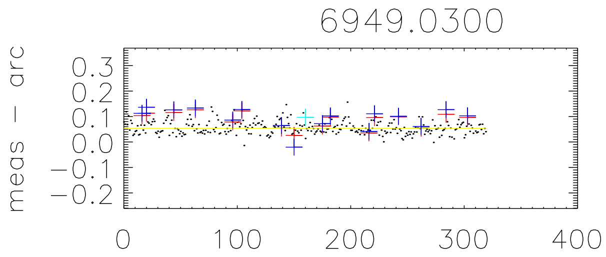

6300.3040
off: 0.05
sig: 0.004
6363.7760
off: 0.09
sig: 0.006
6553.6100
off: 0.09
sig: 0.011
6923.2100
off: 0.07
sig: 0.007
6949.0300
off: 0.10
sig: 0.006
7571.7500
off: 0.09
sig: 0.006
7794.1200
off: −0.04
sig: 0.004
7821.5100
off: 0.01
sig: 0.004
8399.1600
off: 0.03
sig: 0.003
8430.1700
off: 0.02
sig: 0.003
8885.8300
off: 0.05
sig: 0.003
8919.6100
off: 0.04
sig: 0.003
−4 −2 0 2 4

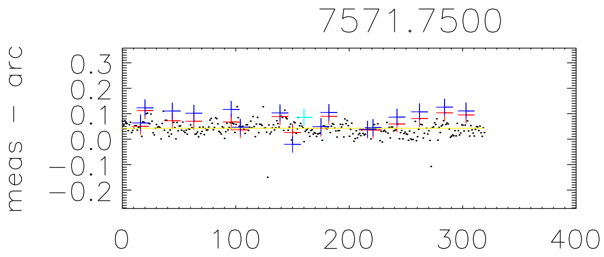

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

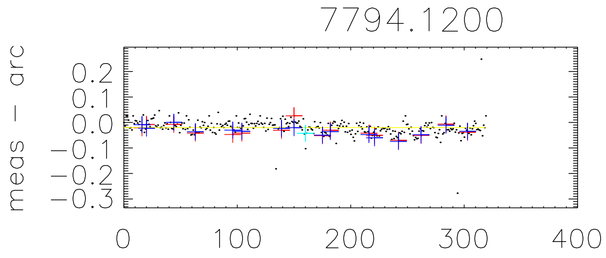

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

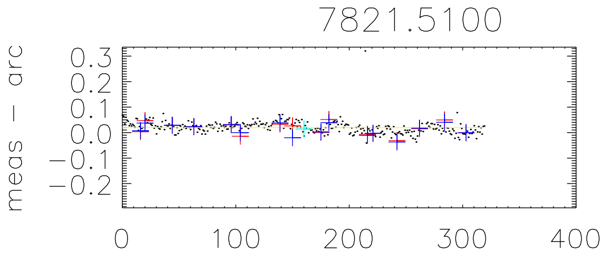

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

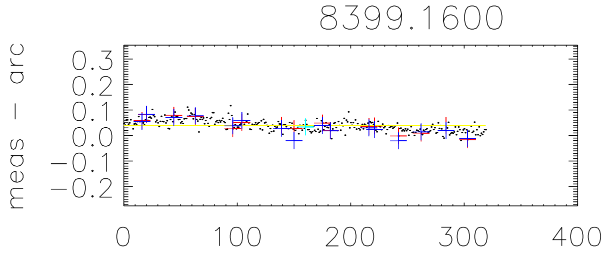

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

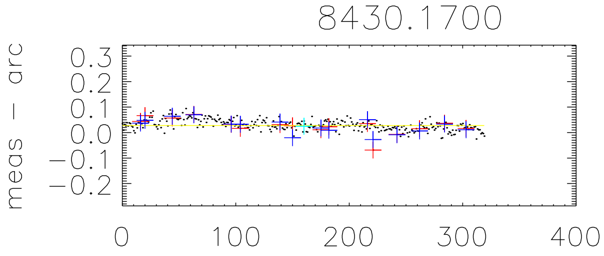

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

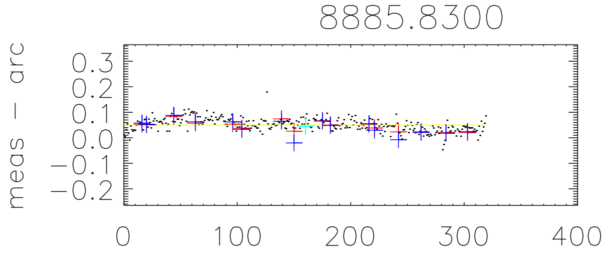

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

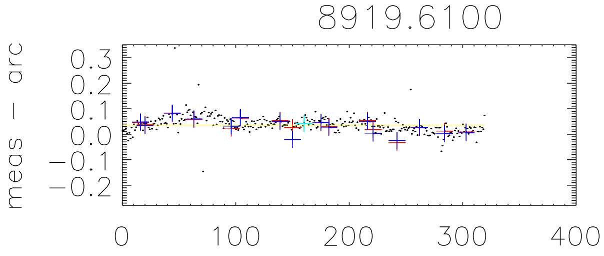

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

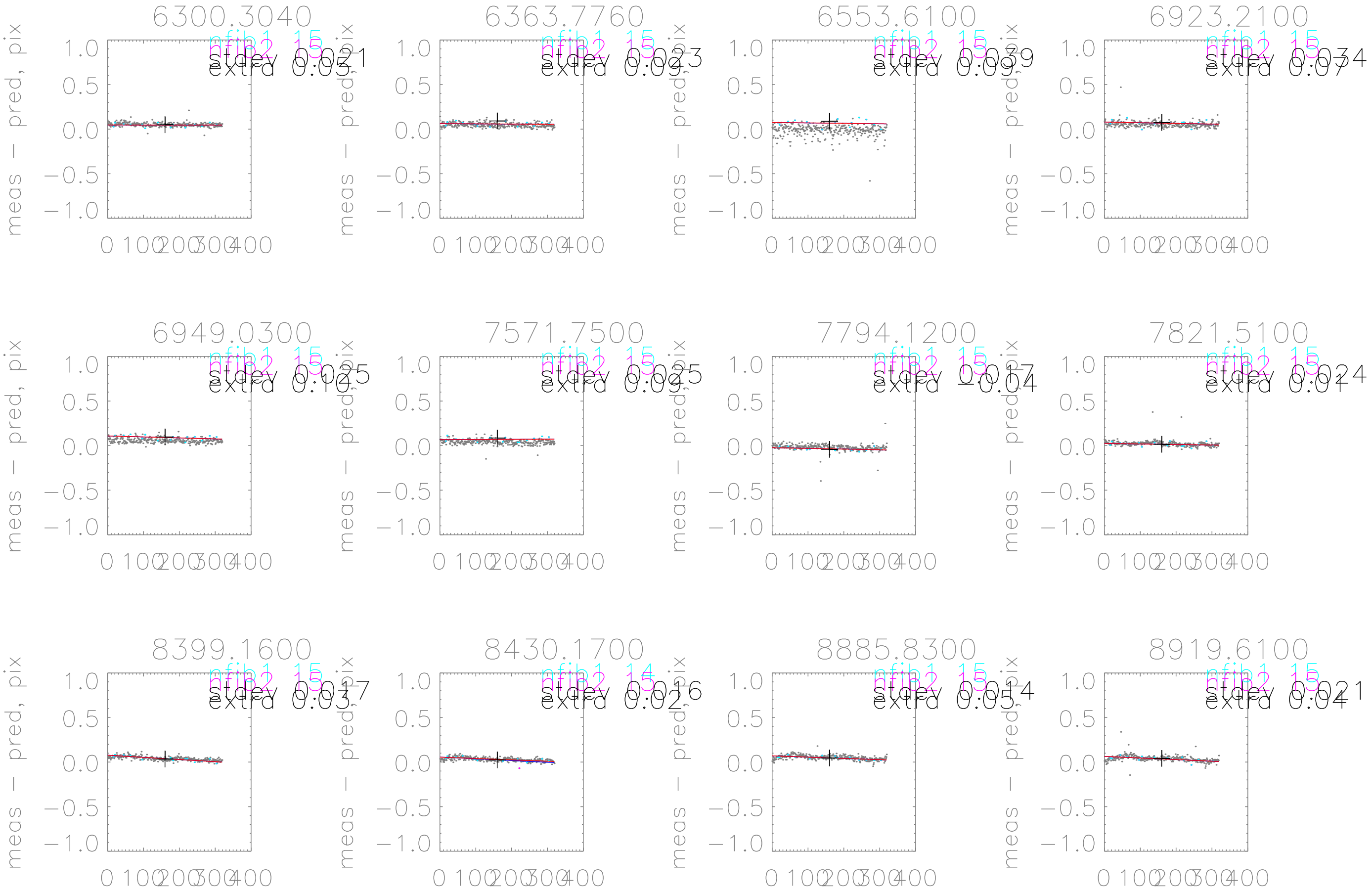

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

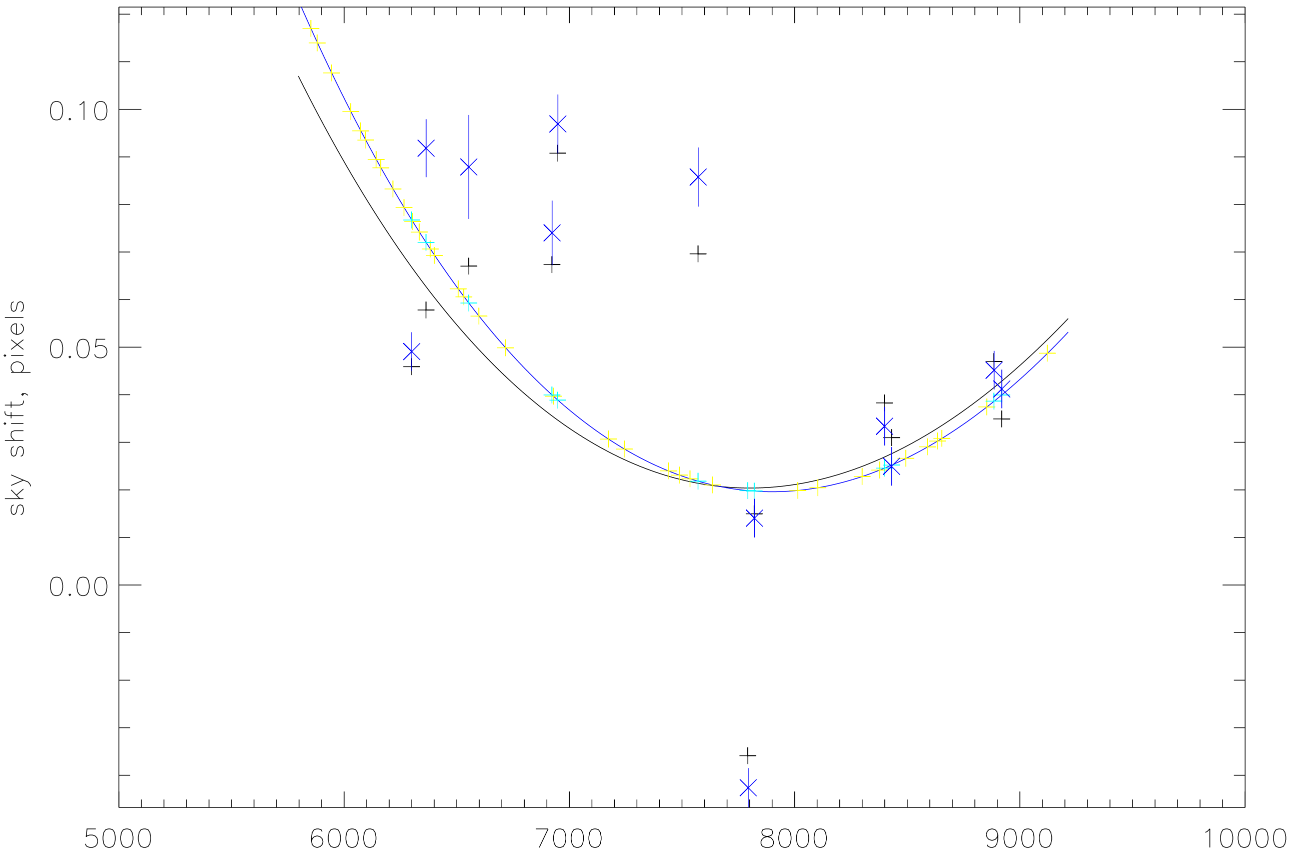

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

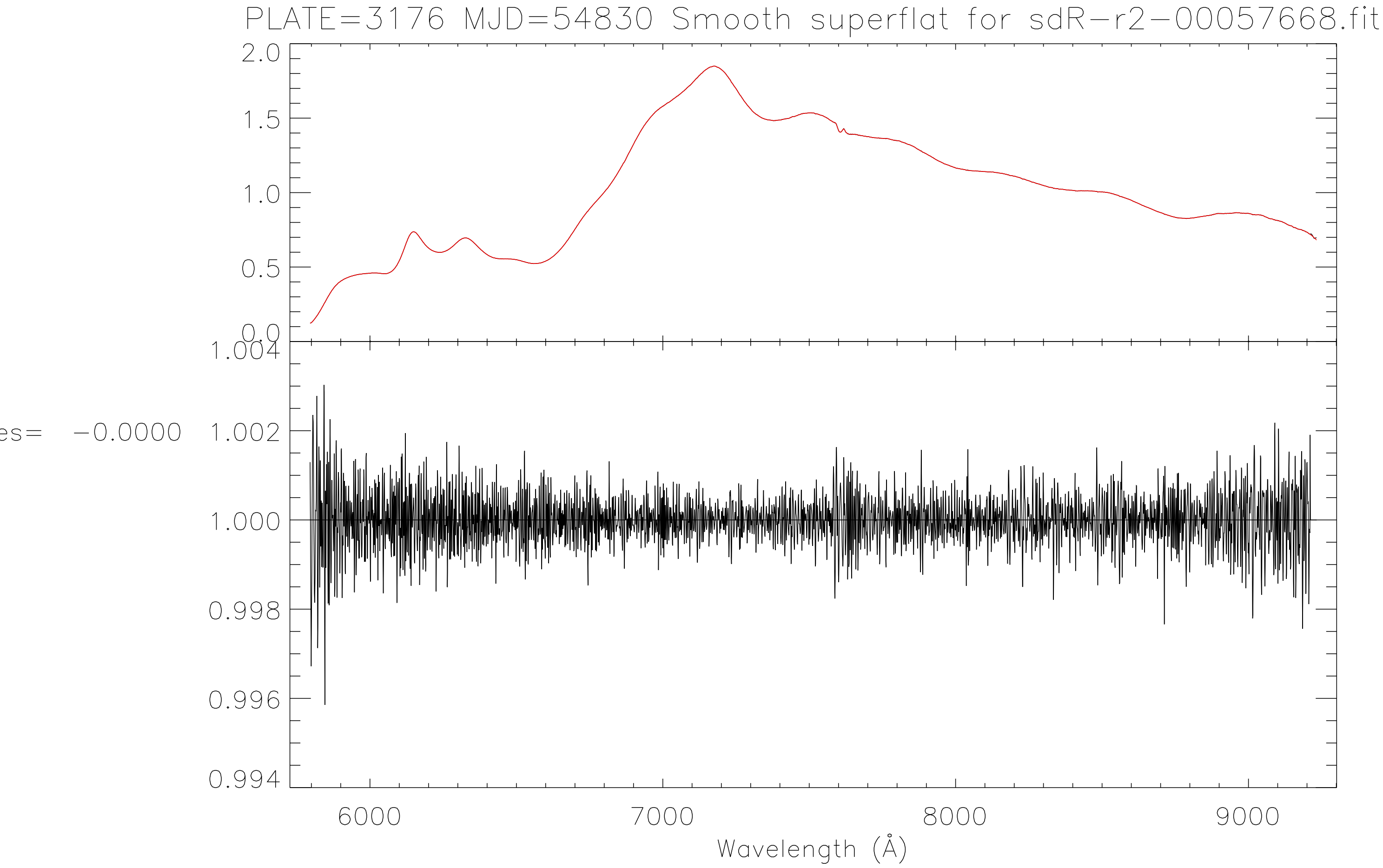

8430.1700
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

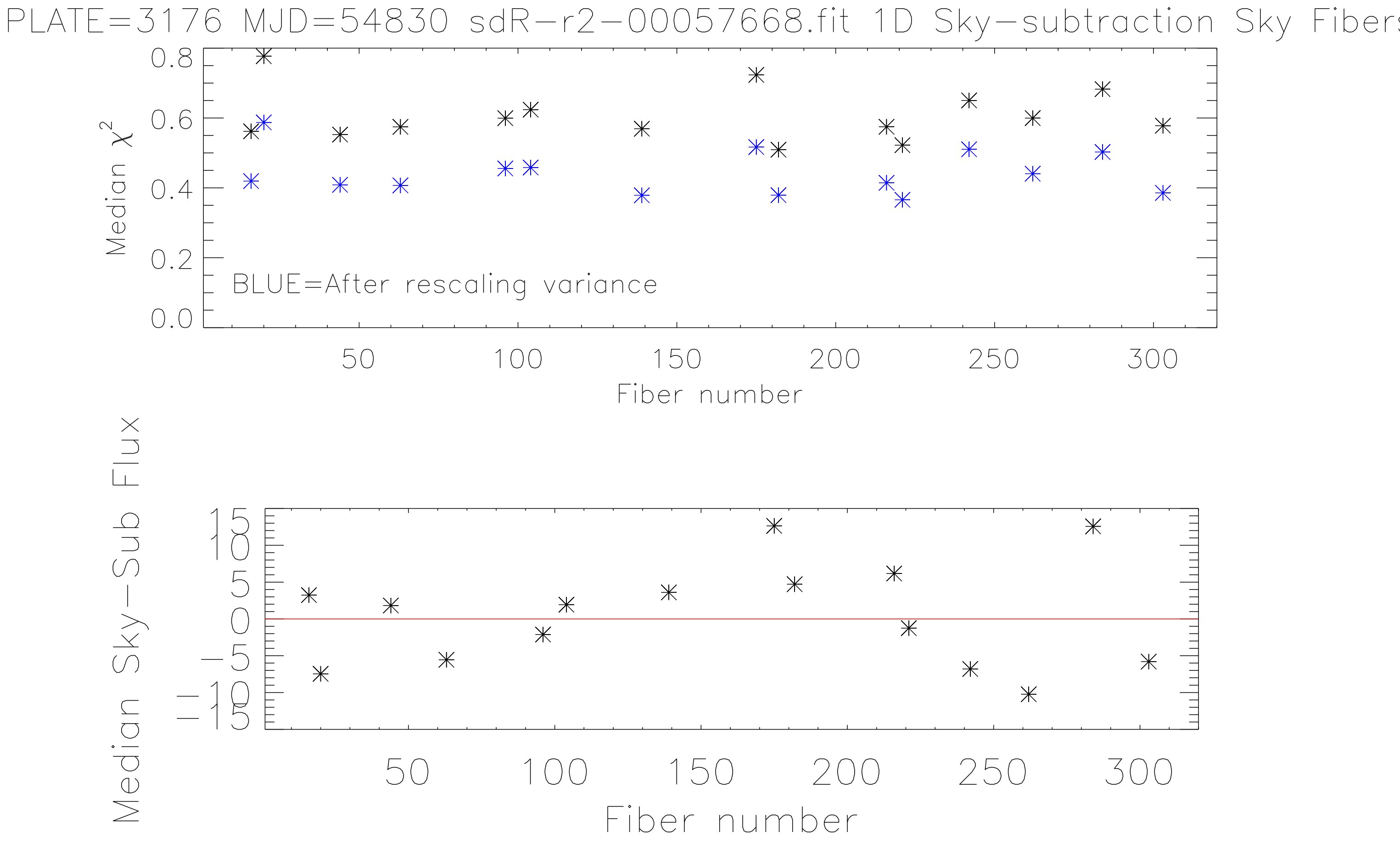

8885.8300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

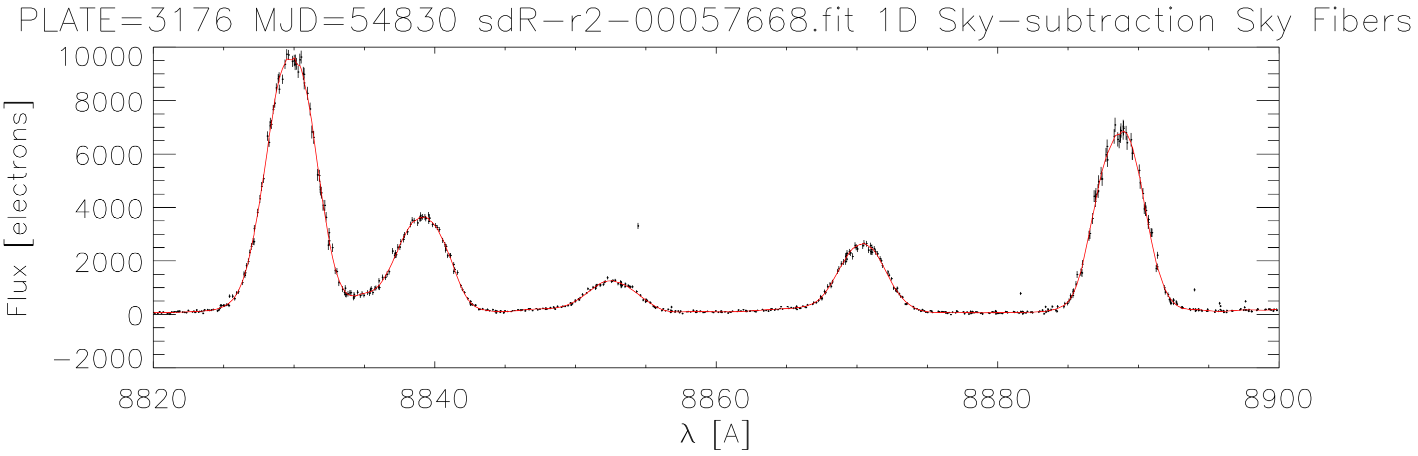

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


6300.3040
nfib1 15
nfib2 15
stdev 0.021
extrd 0.05
6363.7760
nfib1 15
nfib2 15
stdev 0.023
extrd 0.09
6553.6100
nfib1 15
nfib2 15
stdev 0.039
extrd 0.09
6923.2100
nfib1 15
nfib2 15
stdev 0.034
extrd 0.07
6949.0300
nfib1 15
nfib2 15
stdev 0.025
extrd 0.10
7571.7500
nfib1 15
nfib2 15
stdev 0.025
extrd 0.09
7794.1200
nfib1 15
nfib2 15
stdev 0.017
extrd −0.04
7821.5100
nfib1 15
nfib2 15
stdev 0.024
extrd 0.01
8399.1600
nfib1 15
nfib2 15
stdev 0.017
extrd 0.03
8430.1700
nfib1 14
nfib2 15
stdev 0.016
extrd 0.02
8885.8300
nfib1 15
nfib2 15
stdev 0.014
extrd 0.05
8919.6100
nfib1 15
nfib2 15
stdev 0.021
extrd 0.04
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

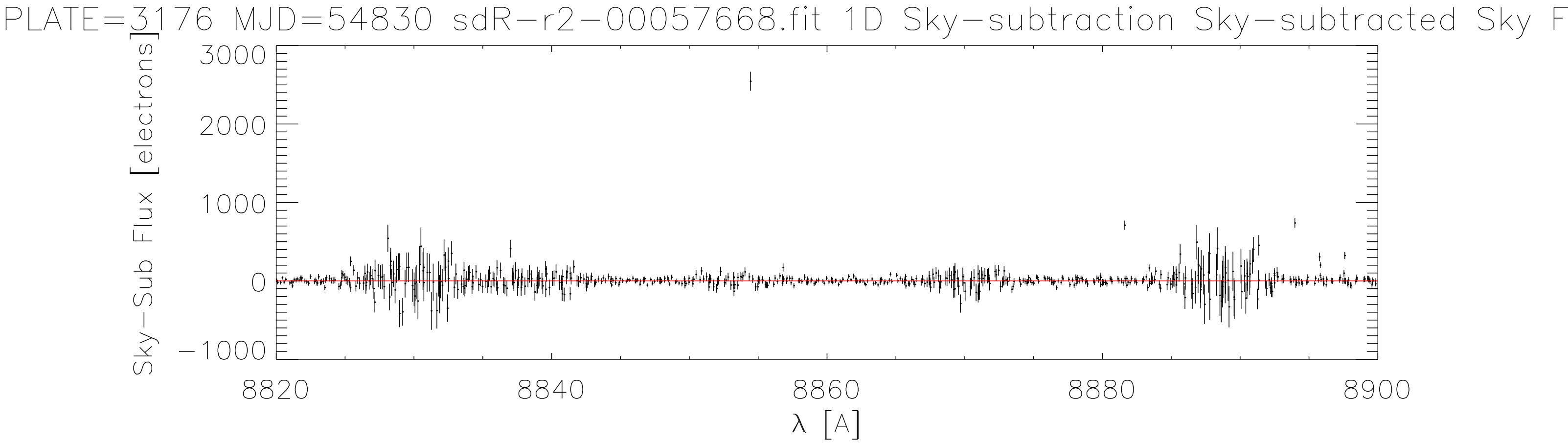

sky shift, pixels
0.10
0.05
0.00
5000
6000
7000
8000
9000
10000


PLATE=3176 MJD=54830 Smooth superflat for sdR-r2-00057668.fit
2.0
1.5
1.0
0.5
0.0
1.004
1.002
1.000
0.998
0.996
0.994
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)


PLATE=3176 MJD=54830 sdR-r2-00057668.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-15
-10
-5
0
5
10
15
50
100
150
200
250
300
Fiber number



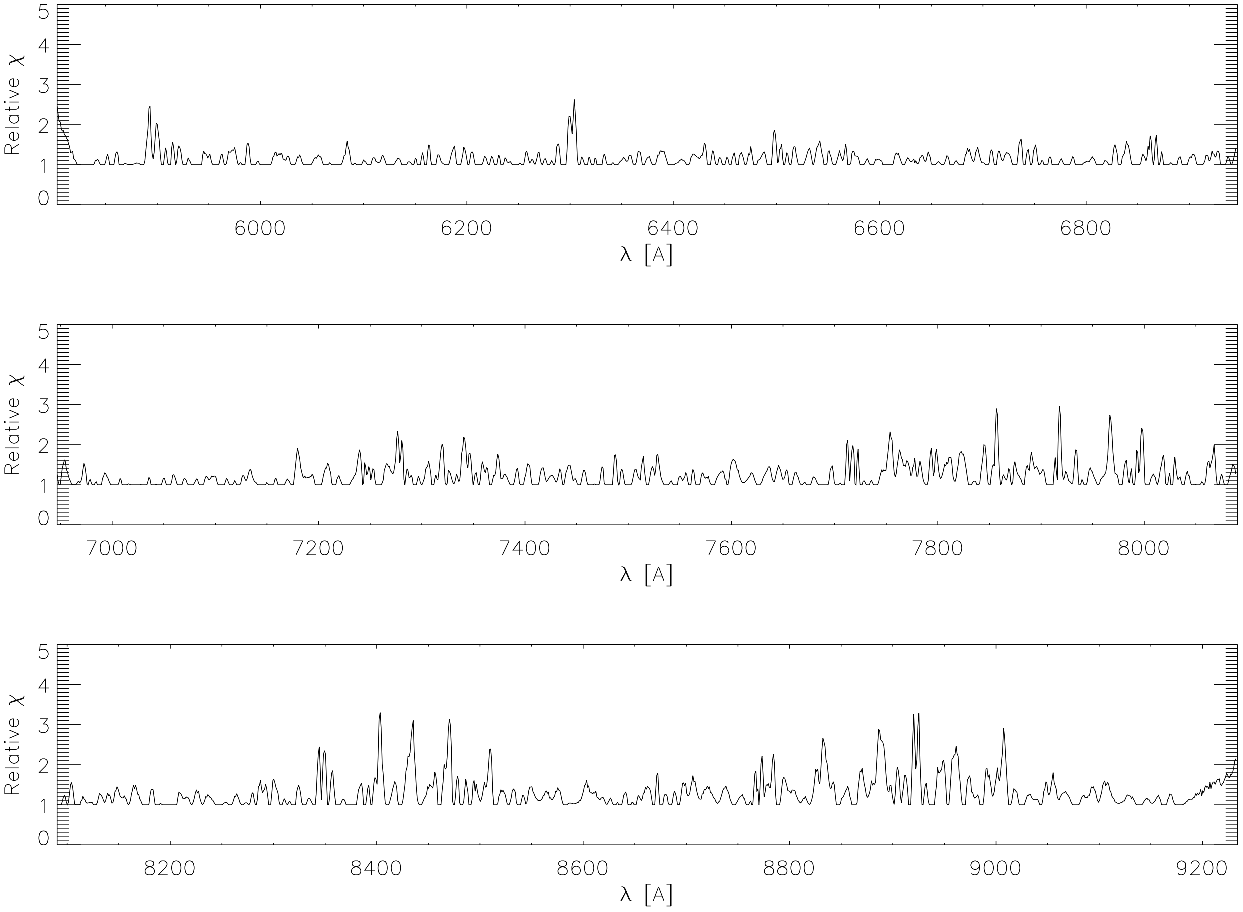
PLATE=3176 MJD=54830 sdR-r2-00057668.fit 1D Sky-subtraction Sky Fibers

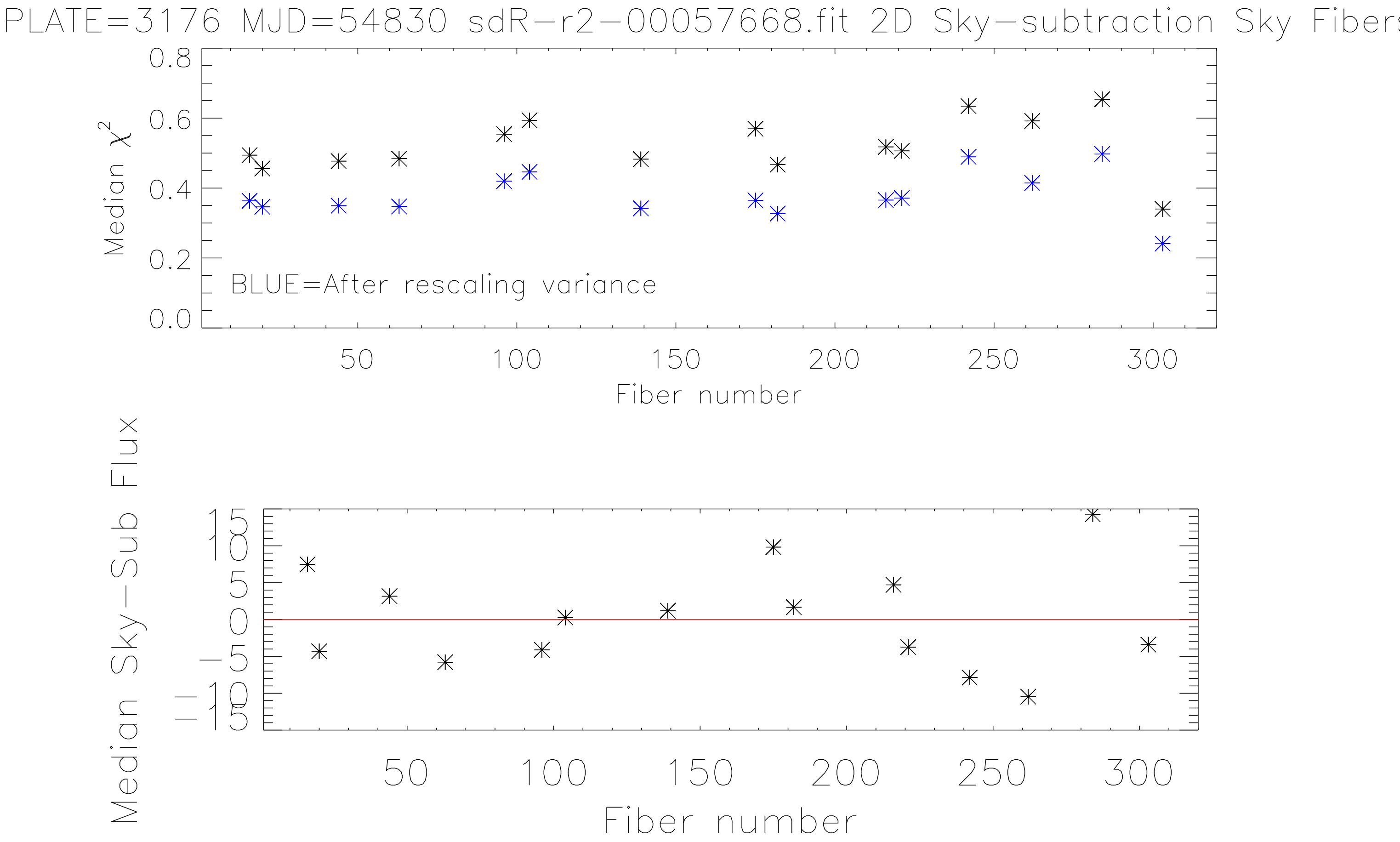


PLATE=3176 MJD=54830 sdR-r2-00057668.fit 1D Sky-subtraction Sky-subtracted Sky F

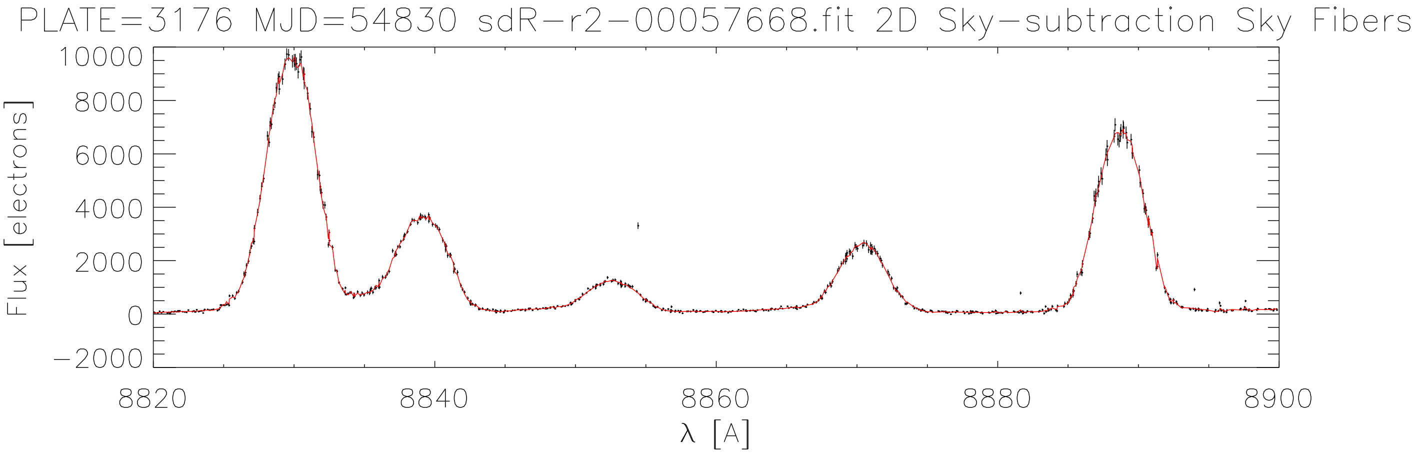
Number of sky fibers = 15

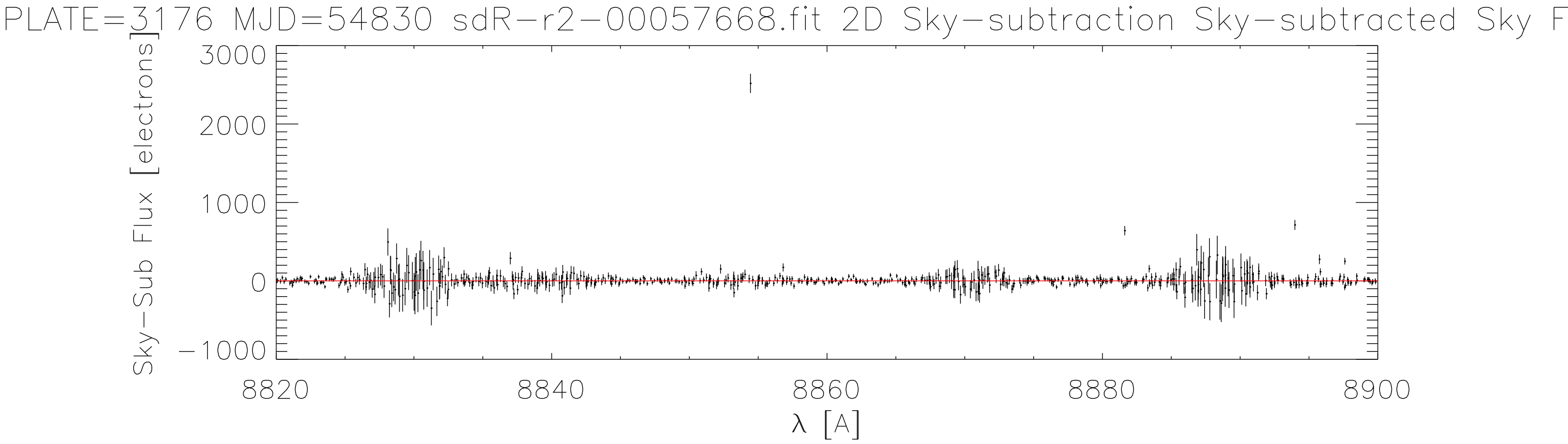
PLATE=3176 MJD=54830 sdR-r2-00057668.fit 1D Sky-subtraction Rescaled Errors





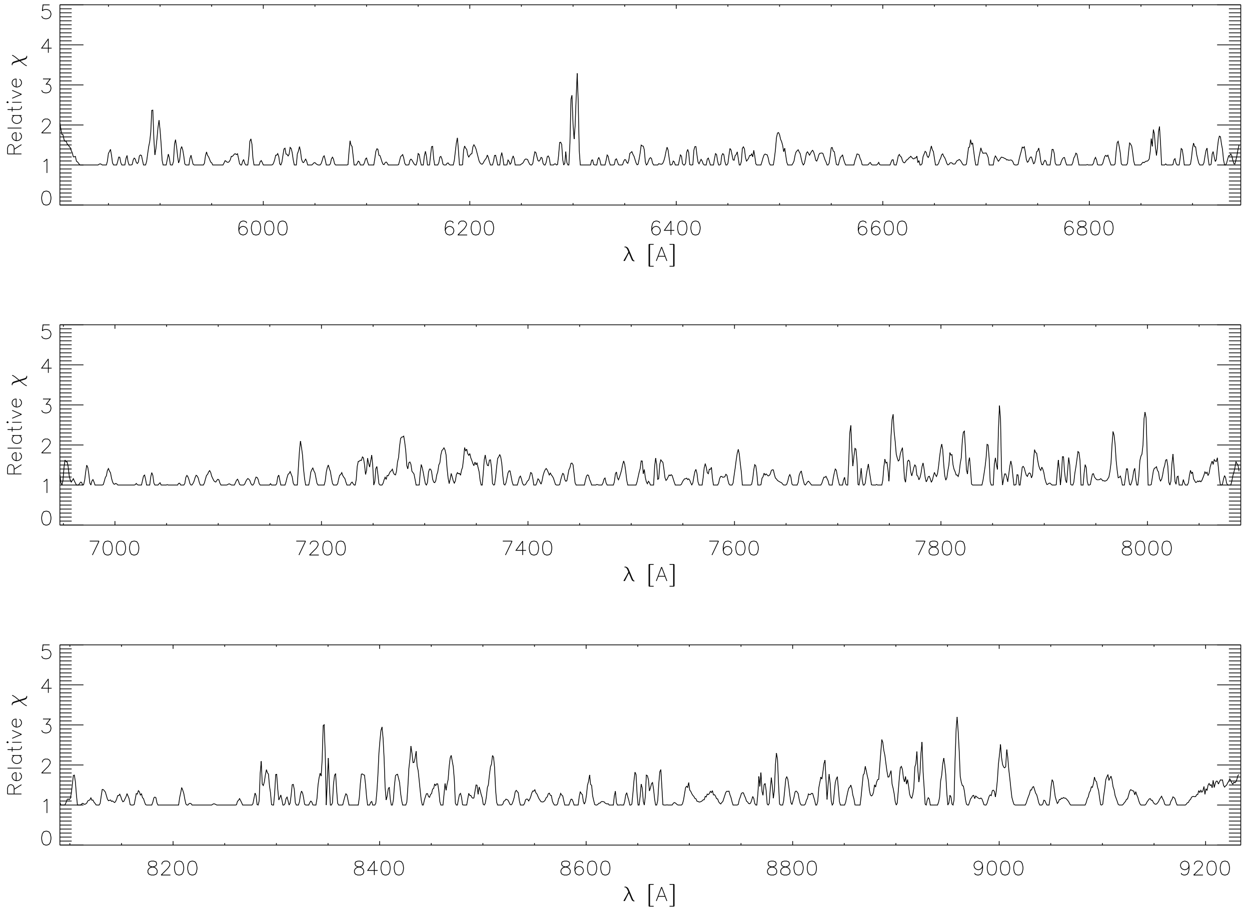
PLATE=3176 MJD=54830 sdR-r2-00057668.fit 2D Sky-subtraction Sky Fiber

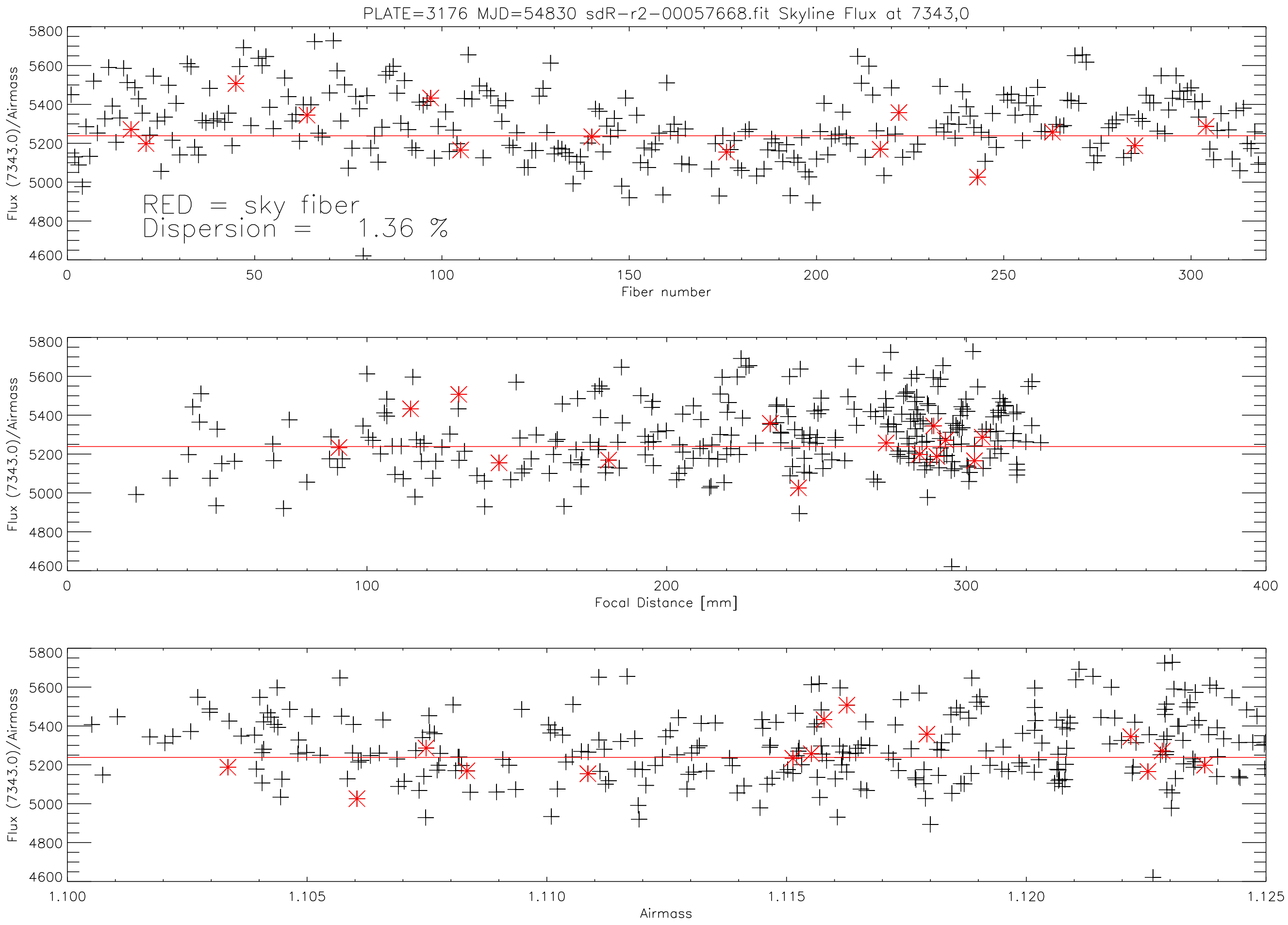

PLATE=3176 MJD=54830 sdR-r2-00057668.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
-2000
8820
8840
8860
8880
8900
λ [A]

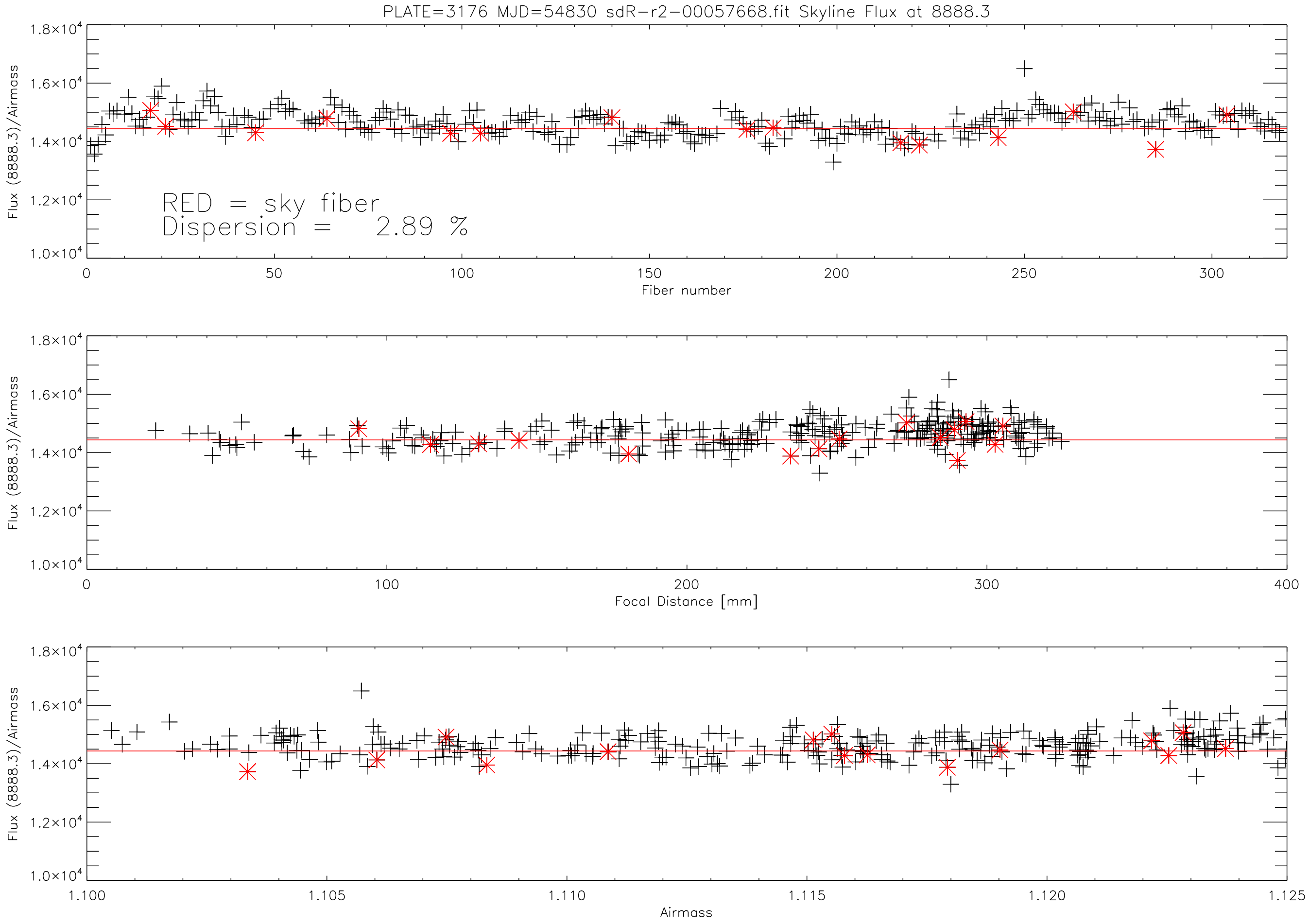

PLATE=3176 MJD=54830 sdR-r2-00057668.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 15

PLATE=3176 MJD=54830 sdR-r2-00057668.fit 2D Sky-subtraction Rescaled Errors




PLATE=3176 MJD=54830 sdR-r2-00057668.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
5800
5600
5400
5200
5000
4800
4600
RED = sky fiber
Dispersion = 1.36 %
0
50
100
150
200
250
300
Fiber number
Flux (7343.0)/Airmass
5800
5600
5400
5200
5000
4800
4600
0
100
200
300
400
Focal Distance [mm]
Flux (7343.0)/Airmass
5800
5600
5400
5200
5000
4800
4600
1.100
1.105
1.110
1.115
1.120
1.125
Airmass


PLATE=3176 MJD=54830 sdR−r2−00057668.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
1.8×10⁴
1.6×10⁴
1.4×10⁴
1.2×10⁴
1.0×10⁴
RED = sky fiber
Dispersion = 2.89 %
0
50
100
150
200
250
300
Fiber number
Flux (8888.3)/Airmass
0
100
200
300
400
Focal Distance [mm]
Flux (8888.3)/Airmass
1.100
1.105
1.110
1.115
1.120
1.125
Airmass